SOIL VAPOR AND INDOOR AIR MONITORING REPORT 2017

Former Unisys Facility – Great Neck
1111 Marcus Avenue
Lake Success, New York 11020

NYSDEC Site ID# 130045

Prepared for:

LOCKHEED MARTIN

Lockheed Martin Corporation
7000 Calmont Avenue, Suite 300 MS 2010
Fort Worth, Texas 76116

Prepared by:

TETRA TECH

One Salem Square
295 Route 22E, Suite 104E
Whitehouse Station, NJ 08889

Submitted To:
Division of Environmental Remediation
New York State Department of Environmental Conservation, Region 1
SUNY Stony Brook
50 Circle Road
Stony Brook, New York 11790

August 2017

TABLE OF CONTENTS

CONTENTS

Acronyms……iv

1. Introduction.....1-1

2. Site Description and Site History.....2-1

2.1 Site History.....2-1

2.2 Site Background.....2-2

3. Sampling Methodology.....3-1

3.1 Soil Vapor Sampling (iPark Building).....3-1

3.2 Paired Sub-Slab Vapor and Indoor Air Sampling (LA Fitness).....3-2

4. Soil Vapor Results.....4-4

5. Indoor Air and Sub-Slab Vapor Results – LA Fitness.....5-1

6. Recommendations.....6-1

6.1 Soil Vapor Sampling (iPark).....6-1

6.2 SSV and IA Sampling (LA Fitness).....6-2

7. References.....7-1

TABLES

Table 3-1: Summary of Soil Vapor Samples from Existing Nested Wells
Table 4-1: Nested Well Soil Vapor Analytical Results
Table 5-1: Indoor Air and Sub-Slab Sampling Results – LA Fitness
Table 5-2: 2017 LA Fitness Results – Updated Vapor Intrusion Guidance

FIGURES

Figure 1-1: Site Location
Figure 2-1: Nested Soil Vapor Sampling Locations – iPark
Figure 2-2: Paired Sub-Slab Vapor and Indoor Air Sampling Locations – LA Fitness
Figure 4-1: Nested Well Soil Vapor Sampling Results (2011 to 2017)
Figure 4-2: Cross-Section Location Map - iPark
Figure 4-3: Cross-Section A-A' with PCE Soil Vapor Concentrations ($\mu g/m^3$)
Figure 4-4: Cross-Section A-A' with TCE Soil Vapor Concentrations ($\mu g/m^3$)
Figure 4-5: Cross-Section B-B' with PCE Soil Vapor Concentrations ($\mu g/m^3$)
Figure 4-6: Cross-Section B-B' with TCE Soil Vapor Concentrations ($\mu g/m^3$)

APPENDICES

Appendix A: Soil Vapor and Vapor Intrusion Monitoring Work Plan 2017, Former Unisys Facility – Great Neck, Lake Success, New York

Appendix B: Nested Well Soil Vapor Analytical Laboratory Reports and Data Validation Forms – iPark

Appendix C: Nested Well Soil Vapor Sample Collection Logs – iPark

Appendix D: LA Fitness Paired Indoor Air and Subslab Sampling Analytical Report and Data Validation Forms

Appendix E: LA Fitness Paired Indoor Air and Subslab Sample Collection Logs

Appendix F: Tenant Letters to LA Fitness and Winthrop Management

Acronyms

µg/m^3	micrograms per cubic meter
CVOCs	chlorinated volatile organic compounds
DUSR	Data Usability Reports
EPA	Environmental Protection Agency
ft. bgs.	feet below ground surface
HASP	Health and Safety Plan
IA	indoor air
in. WC	inches of water column
iPark	iPark, Lake Success, LLP
Lockheed Martin	Lockheed Martin Corporation
Loral	Loral Corporation
Northwell	Northwell Health
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
Pace	Pace Analytical Laboratories
PCE	tetrachloroethene
Site	former Unisys Facility
SOP	Standard Operating Procedure
Sperry	Sperry Gyroscope Company
SSDS	Sub-Slab Depressurization System
SSV	sub-slab vapor
TCE	trichloroethene
TestAmerica	TestAmerica, Inc.
Tetra Tech	Tetra Tech, Inc.
USEPA	United States Environmental Protection Agency
VI	Vapor Intrusion
VOCs	volatile organic compounds

1. Introduction

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc. (Tetra Tech) has prepared this Soil Vapor Monitoring Report for the former Unisys Facility ("the Site", Site No.130045) located at 1111 Marcus Avenue, Village of Lake Success, New York (Figure 1-1). This report presents data collected during the 2017 annual soil vapor monitoring event. Soil vapor samples were collected from nested wells located beneath and adjacent to the main iPark building. The soil vapor data from these nested points represent conditions at various depths, corresponding to the screened intervals of the nested wells. Paired soil vapor/indoor air samples were collected from select sub-slab monitoring points within the former foundry building, currently occupied by LA Fitness (LA Fitness building). This report presents a brief summary of site background, sampling methodology, sampling results, and an evaluation of the 2017 soil vapor from nested points under and around the main building and paired sub-slab and indoor air data at the LA Fitness building. Details of the inspection of the passive venting system installed at the LA Fitness building are included in the forthcoming quarterly OMM report, *Sub-Slab Depressurization System, Operations, Maintenance and Monitoring Report, March 1, 2017-May 31, 2017*.

The purpose of sampling the nested wells is to: (1) evaluate changes in volatile organic compound (VOC) concentrations in soil vapor at various depths; and (2) assess the levels of soil vapor contamination that may continue to exist beneath and outside the iPark building. The purpose of the paired sub-slab/indoor air sampling at the LA Fitness building is to assess the risk to building occupants from vapor intrusion. A revised *Soil Vapor and Vapor Intrusion Monitoring Work Plan 2017, Former Unisys Facility – Great Neck, Lake Success, New York* (Tetra Tech, 2017), detailing the nested well sampling, was submitted to the New York State Department of Environmental Conservation (NYSDEC) and New York State of Department of Health (NYSDOH) on January

20, 2017 and approved on February 13, 2017. This work plan is included as Appendix A of this report.

2. Site Description and Site History

2.1 SITE HISTORY

The Lockheed Martin Corporation (Lockheed Martin) former Unisys Facility ("the Site") was an active manufacturing facility from its startup in 1941 until approximately 1995, when most manufacturing activities ceased. Some activities, including limited assembly, integration, prototype development and testing, and/or engineering and administrative duties continued at the Site through early 1999. The former Unisys Facility was originally designed and built by the United States government and was operated under a contract with the Sperry Gyroscope Company (Sperry) from 1941 to 1951. In 1951, the property was sold to Sperry, which merged with Burroughs in 1986 to form the Unisys Corporation. In 1995, Loral Corporation (Loral) acquired the assets of Unisys Defense Systems, a division of Unisys Corporation. In early 1996, Loral's electronics and systems integration businesses were purchased by Lockheed Martin. The property was sold by Lockheed Martin in early 2000 to iPark, Lake Success, LLP (iPark), which converted the buildings to commercial rental space. The Former Unisys Facility occupies 90.5 acres that includes the main (iPark) building and three smaller buildings (LA Fitness, Power House, and the maintenance garage) located south of the iPark building. The iPark building and the LA Fitness building house several tenants that use the lease space for office areas, a small cafeteria, an outpatient hospital, distribution centers, maintenance spaces, and a fitness center. The site previously included 3.5 acres that were sold to the Town of North Hempstead, which are now used as soccer fields. The Power House continues to serve as the power distribution center. The majority of the garage has been converted into the active Sub-Slab Depressurization System (SSDS) process building. The remaining portions of the property consist of paved areas (parking lots), transformer

stations, and three storm water retention basins. A general layout of the Site, including major tenants occupying the first floor of the iPark building as of May 2017 is shown on Figure 2-1. Figure 2-2 shows the LA Fitness building along with monitoring locations highlighted.

In the past, the facility was used to manufacture a wide range of defense-related products including navigational systems for United States Navy nuclear submarines (Trident Program), navigational sonar equipment, radar tracking systems (North Warning System), and weather radar systems (NEXRAD). Past manufacturing processes included the following: metal casting, chemical etching, degreasing, plating, painting, metal finishing, machining, electronic circuit board manufacturing, and assembly. Chemicals used during manufacturing at the plant included halogenated and non-halogenated hydrocarbon solvents, cutting oils, paints, fuel oils, acids, caustics, and inorganic plating compounds. On May 1, 1991 New York State Department of Environmental Conservation (NYSDEC) designated the former Unisys Facility as a Class 2 site (No. 130045) in the registry of Inactive Hazardous Waste Disposal Sites in New York State.

2.2 BACKGROUND

In response to New York State Department of Health's (NYSDOHs) final Vapor Intrusion (VI) Guidance (NYSDOH, 2006), Lockheed Martin conducted an initial indoor air and sub-slab vapor investigation in 2007 (ARCADIS, 2008). In March 2008, a temporary Sub-Slab Depressurization System (SSDS), referred to as the eastern SSDS, was installed as an interim measure in the former Allstate space located in the northeast corner of the iPark building to address trichloroethene (TCE) concentrations above the NYSDOH indoor air guidance levels and elevated levels of other VOCs in the sub-slab vapor. In November 2008, another temporary SSDS, referred to as the central SSDS, was installed in the south-central portion of the iPark building (current Antech space) to address carbon tetrachloride concentrations above NYSDOH indoor air guidance levels and other elevated VOCs in the sub-slab vapor. Subsequent to these temporary SSDS installations, sub-slab

vapor and indoor air sampling events conducted between 2009 and 2013 demonstrated that VOC concentrations in indoor air were reduced to below the NYSDOH indoor guidance levels, and carbon tetrachloride, tetrachloroethene (PCE), and TCE concentrations in sub-slab vapor were either decreasing or remained constant.

To eliminate potential preferential pathways for sub-slab VOC migration into indoor air across the entire iPark building and the garage, Lockheed Martin prepared a Vapor Mitigation Conceptual Design (ARCADIS, 2010) to construct a site-wide SSDS in October 2010. Subsequent to NYSDEC approval of Vapor Mitigation Conceptual Design, the site-wide SSDS was constructed between August 2011 and June 2013. The temporary central and eastern SSDSs were connected to the site-wide SSDS, and the site-wide SSDS has been in continuous operation since September 2013. The design goal of the SSDS is to maintain a minimum of -0.004 inches of water column (in. WC) differential pressure between the sub-slab and the indoor air. The step tests conducted on selected SSDS extraction points and the 2014 annual nested well sampling results indicated that the SSDS extraction wells influence up to approximately 25 feet below ground surface (ft. bgs.) (CDM Smith, April 2014).

A passive SSDS was constructed in 2010 at the LA Fitness building. The system consists of a vent pipe and an air inlet pipe, which penetrates the basement area and extends to the roof. A wind turbine located on the top of the exhaust pipe allows for suctioning of the basement air, thereby introducing fresh air into the basement through the air inlet pipe. The inlet pipe also extends to the roof.

3. Sampling Methodology

This report presents the details of the two sampling events performed within the 2017 heating season including the soil vapor sampling event in and around the iPark, Lake Success, LLP (iPark) building, and the sub-slab vapor (SSV) and indoor air (IA) sampling event for the LA Fitness building. All sample locations and sampling methodologies are presented in the sections below. Field work for the 2017 sampling events were completed between February 15th and March 7th, 2017. All field activities conducted during the 2017 soil vapor, sub-slab, and indoor air sampling events were completed in accordance with the approved *Soil Vapor and Vapor Intrusion Monitoring Work Plan 2017, Former Unisys Facility – Great Neck, Lake Success, New York* (Tetra Tech, 2017) and the Tetra Tech, Inc. (Tetra Tech) site-specific Health and Safety Plan (HASP) (Tetra Tech, 2016).

3.1 SOIL VAPOR SAMPLING (IPARK BUILDING)

Between February 15th and March 7th, 2016, a total of 96 soil vapor and 11 duplicate samples were collected from 20 nested wells, located inside and outside of the IPark building (Figure 2-1). All samples were collected in accordance with the standard operating procedure (SOP) included in the *Soil Vapor and Vapor Intrusion Monitoring Work Plan 2017, Former Unisys Facility – Great Neck, Lake Success, New York* (Tetra Tech, 2017, included as Appendix A). Table 3-1 presents a summary of the soil vapor samples collected from nested wells. Each nested well contains two to eight distinct sampling intervals located at varying depths. Each sampling interval is constructed of a 1-inch diameter, 6-inch long vapor screen connected to a piece of Teflon tubing which runs to the surface. A sand pack fills the annular space around the sampling intervals and a bentonite plug creates a seal between the sampling intervals and the surface. Field duplicate samples were

collected at a frequency of 10 percent. A total of 11 field duplicate samples were collected. The primary and duplicate samples were obtained simultaneously using a "T" connection. All samples were collected with 6-liter Summa canisters collecting the sample over a 4-hour time period. Helium leak tests were conducted at 5 percent of total sample locations. Sample collection times were contingent on access from individual tenants for nested wells located inside the iPark building. Per the tenant request, nested wells within Northwell Health (Northwell) spaces were sampled over the weekend (February 26, 2017).

Vapor samples were collected using 6-liter, batch-certified stainless-steel Summa canisters equipped with 4-hour flow controllers, in-line particulate filters, and vacuum gauges. The samples were shipped with completed chain-of-custody forms to Pace Analytical Laboratories (Pace) in Minneapolis, Minnesota. The samples were analyzed for VOCs by modified Environmental Protection Agency (EPA) Method TO-15 on a standard turn-around-time basis. Analysis for Freon 22 and Freon 115 were added to the standard TO-15 list, consistent with previous sampling events. Sample results are discussed in Section 4.

3.2 PAIRED SUB-SLAB VAPOR AND INDOOR AIR SAMPLING (LA FITNESS)

The SSV and IA sampling event at LA Fitness was completed in accordance with the approved Work Plan, SOPs, and Tetra Tech site-specific HASP (Tetra Tech, 2016). On February 15, 2017 (while the passive venting system was in operation) 6 SSV, 6 IA, one basement air, one ambient air, and two duplicate samples were collected to evaluate concentrations of VOCs present in indoor air and sub slab soil vapor. The paired SSV and IA sample locations are shown on Figure 2-2.

SSV samples were collected using 6-liter, batch-certified stainless-steel Summa canisters equipped with 8-hour flow controllers, in-line particulate filters, and vacuum gauges. IA samples were collected using 6-liter, individually-certified stainless-steel Summa canisters equipped with 8-hour flow controllers, in-line particulate filters, and vacuum gauges. The samples were shipped with completed chain-of-custody forms to Pace in Minneapolis, Minnesota. The samples were analyzed for VOCs by the modified EPA TO-15 identified above.

4. Soil Vapor Results

The analytical results for the nested well soil vapor samples collected in 2017 are provided in Table 4-1. All of the laboratory data generated during the soil vapor sampling event were reviewed and validated by Tetra Tech, Inc. (Tetra Tech) in accordance with the New York State Department of Environmental Conservation (NYSDEC) guidance for Data Usability Reports (DUSR) and United States Environmental Protection Agency (USEPA) guidelines. Holding times, blank contamination, Gas Chromatography/Mass Spectrometry performance check (Tuning) summaries, internal standard area performance, initial and continuing calibration results, matrix duplicate/laboratory control samples and target compound identification, and quantitation were reviewed during this process. The quality assurance/quality control review did not result in the rejection or alteration of any sampling results, although some data are qualified as "estimated" and data qualifiers were added to the data when necessary. Overall, the data were found to be acceptable for evaluating indoor air quality when used with the appropriate qualifiers with the exception of non-detect sample results for the analyte chloropentafluoroethane in the laboratory deliverable 10381335. The complete set of analytical results and data validation forms are included in Appendix B. Sample collection logs completed during the sampling events are included in Appendix C.

Out of the 107 soil vapor samples (including duplicate samples) collected during the 2017 sampling event, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in 94 and 95 samples, respectively. PCE concentrations ranged from non-detect to 430,000 microgram per cubic meter ($\mu g/m^3$), while TCE concentrations ranged from non-detect to 1,310,000 $\mu g/m^3$. One

sample interval, VP-105_32, was unable to be sampled due to water in line. This interval was not sampled in 2016 due to similar issues.

The annual soil vapor sampling results for PCE and TCE concentrations detected from 2011 to 2017 are shown on Figure 4-1. The 2014 to 2017 results represent soil vapor concentrations measured after the site-wide sub-slab depressurization system (SSDS) operation began in September 2013 with the SSDS operating at the time of sampling events. The lowest concentrations of PCE and TCE detected in soil vapor in 2017 were collected from sample locations outside of the iPark building, and beneath the iPark building, west of column 6.

Select locations outside of the iPark Building and away from the presumed source have generally exhibited low level detections of TCE and PCE. Comparable to historical sampling results, PCE and TCE were detected in 2017 at relatively low concentrations at nested wells FPM-20, VP-1, VP-4, and VP-103. However, the May 2017 revision of the NYSDOH Vapor Intrusion Guidance lowered the mitigation threshold for TCE in subslab soil vapors to 60 ug/m^3 (previously 250 ug/m^3). Deep interval samples below 25 ft. bgs. collected from VP-1 and VP-103 have TCE concentrations exceeding the new 60 ug/m^3 mitigation threshold for TCE.

PCE and TCE were not detected or detected at very low concentrations at samples collected from shallow depths (< 25 feet) in nested wells VP-102 and VP-103 located beneath the iPark building west of column 6. Concentrations increase at sample intervals beyond twenty feet (the approximate effective depth of the SSDS), and, aside from PCE detections at VP-102 in intervals between 51ft. bgs. and 61ft. bgs., remain below their respective NYSDEC mitigation threshold. The VOC concentrations were well below the DOH VI Guidance for sub slab mitigation for all shallow sampling intervals.

Consistent with previous sampling events, PCE and TCE concentrations are elevated near the center and toward the southeast corner of the building. The soil vapor concentrations of PCE and TCE in the upper vadose zone (0.0- 25 ft. bgs.) detected in 2017 are generally similar to results from 2016. Concentrations of PCE and TCE detected in 2017 remain lower than pre-SSDS concentrations, confirming the effectiveness of the SSDS at removing these VOCs in soil vapor. The highest PCE and TCE concentrations remain within the deeper vadose zone, generally around the 30 to 50 ft. bgs. interval. Generally, PCE and TCE concentrations in the deeper vadose zone are higher in 2017 than in the 2016 sampling event. The vertical distribution of PCE and TCE below the central portion of the building is shown on the cross-sections provided on Figures 4-2 to 4-6.

Within the deep vadose zone, 2017 results indicate a reduction in TCE and PCE concentrations at LIJ-VP-7 at the 30-, 40-, and 50-foot interval when compared to data from 2016. An additional decrease in TCE concentration was reported at VP-107 at the sample intervals deeper than 20 feet.

As shown on Figure 4-1, increases in PCE and TCE concentration in the deep vadose zone were reported in 2017 when compared to 2016. The largest concentration increases were reported at the 40-foot interval at VP-9 and the 40- and 50-foot interval at VP-NYSDEC-5. As demonstrated in the Perched Water Investigation (Arcadis, 2011), various fine–grained, low permeability soils and perched water exist at these depths, and may be limiting vertical migration of vapors to the upper vadose zone. As a result, a pooling of chlorinated VOCs (CVOCs) in soil vapor may exist at these locations.

5. Indoor Air and Sub-Slab Vapor Results – LA Fitness

Results of the 2017 heating season sub-slab vapor (SSV) and Indoor Air (IA) sampling event in LA Fitness are presented in Table 5-1 and Figure 5-1. All laboratory data were reviewed and validated by Tetra Tech, Inc. (Tetra Tech) in accordance with the New York State of Environmental Conservation (NYSDEC) guidance for Data Usability Reports (DUSR) and United State Environmental Protection Agency (USEPA) guidelines. Holding times, blank contamination, Gas Chromatography/Mass Spectrometry performance check (Tuning) summaries, internal standard area performance, initial and continuing calibration results, matrix duplicate/laboratory control samples and target compound identification, and quantitation were reviewed during this process. The quality assurance/quality control review did not result in the rejection or alteration of any sampling results, although some data are qualified as "estimated" and data qualifiers were added to the data when necessary. Overall, the data were found to be acceptable when used with the appropriate qualifiers. Non-detected results were reported to the reporting limits. The complete set of analytical results and data are included in Appendix D. Sample collection logs completed during the sampling event are included as Appendix E. The results were provided to the building owner and tenants on May 31, 2017, within 30 days of data validation. A copy of the summary letters provided to the building owner and tenants is provided in Appendix F.

The analytical results for SSV samples indicate that tetrachloroethane (PCE) and trichloroethene (TCE) were detected above the reporting limits in all SSV samples collected in 2017. PCE and TCE concentrations ranged from 8.9 micrograms per cubic meter ($\mu g/m^3$) to 644 $\mu g/m^3$ and 2.3

µg/m^3 to 90.9 µg/m^3, respectively. TCE detections at locations SS-C1 and SS-D7 are above the May 2017 mitigation threshold for TCE in subslab soil (60 ug/^{3}).

TCE was not detected in any IA or ambient air samples collected during the 2017 SSV and IA sampling event. PCE was detected at all six of the IA samples. The detections ranged from 1.2 µg/m^3 and to 1.4 µg/m^3, all of which are below the New York State Department of Health (NYSDOH) Matrix 1/Matrix 2 indoor air mitigation threshold of 30 µg/m^3 and 2 µg/m^3, respectively. PCE was also detected in the ambient air sample (collected during the indoor air sampling event) at a concentration of 1.2 µg/m^3. The presence of PCE detected in the ambient air means that the measured indoor air concentration is likely the result of background conditions.

In basement air sample IA-12 (previously labeled SS-12 in 2016), PCE and TCE were detected at 8.4 µg/m^3 and 4.0 µg/m^3, respectively, both well below the NYSDOH mitigation thresholds for sub-slab vapor of 1,000 µg/m^3 and 60 µg/m^3, respectively. The continued detection of low levels of PCE and TCE in basement air confirms the effectiveness of the passive venting system at venting basement air and mitigating the potential for vapor intrusion in the LA Fitness building.

The evaluation of PCE and TCE levels in SSV and IA samples in accordance with the NYSDOH Matrices recommendation is presented in Table 5-2. NYSDEC and NYSDOH have required to continue sampling the LA Fitness sampling locations on an annual basis during the winter heating season, consistent with NYSDOH guidance.

6. Recommendations

6.1 SOIL VAPOR SAMPLING (IPARK)

Tetrachloroethene (PCE) and trichloroethene (TCE) concentrations detected in the shallow vadose zone (shallower than 25 ft. bgs.) have significantly decreased since the start-up and continuous operation of the site-wide sub-slab depressurization system (SSDS) in September 2013. Results from the 2017 soil vapor sampling event and historical data have proven the effectiveness of the SSDS system at reducing VOC concentrations at shallow depths. Tetra Tech, Inc. (Tetra Tech) recommends continued operation of the SSDS to reduce risk of exposure to CVOCs and remain protective of human health and continued sampling of the nested well locations sampled in 2017 (excluding VP-1) during the 2018 heating season.

Sample results indicate that a significant mass of CVOCs remain in the deep vadose zone (deeper than 25 ft. bgs.). Previous investigations have determined that residual soils and/or impacted groundwater beneath the iPark building may be the likely sources. Alternative remedies including an expansion of the soil vapor extraction system should be investigated to remediate contamination in the source area.

A Remedial Alternatives Analysis (RAA) was submitted to NYSDEC on May 25, 2017 for NYSDEC's review. The RAA provides several alternatives for improvements to the existing soil vapor extraction system, currently part of the OU-1 groundwater treatment system. Tetra Tech recommended the implementation of two new SVE wells, an air sparging system, and connection to the SSDS facility based the RAA assessment. The RAA determined that connection of the SVE system in the former drywell area to the SSDS system is a viable option for long term operations.

The implementation of the recommended alternative will be conducted with approval from NYSDEC.

Monitoring of nested well VP-1 should be discontinued due to consistently low PCE and TCE concentrations.

PCE and TCE concentrations in nested wells in the western portion of the iPark facility (VP-102 and VP-103) continue to remain low in both shall and deep intervals. A temporary rebound study (shutting off select extraction points near these wells) should be performed in 2018. A draft work plan can be provided based upon NYSDEC's approval. Annual samples will continue to be taken at VP-102 and VP-103 during and subsequent to the rebound test in order to monitor any rebound in soil vapor concentrations.

6.2 SSV AND IA SAMPLING (LA FITNESS)

Tetra Tech recommends continued monitoring of all sub-slab vapor (SSV) and indoor air (IA) locations at LA Fitness during the 2018 heating season. Additionally, Tetra Tech recommends installing additional monitoring points between SS-C1 and SS-D7 to evaluate elevated TCE concentrations in subslab soil vapor. The evaluation would involve additional subslab soil vapor sampling outside of the heating season. Data from the sampling would be used to develop a mitigation strategy for this area of the LA Fitness building.

7. References

ARCADIS (2011). Draft Supplemental Perched Water Investigation Report, Former Unisys Corporation Site, Great Neck, New York. October 2011.

CDM Smith (2014). Vadose Zone Model Documentation Report. May 2014.

NYSDEC (2010). DER-10, Technical Guidance for Site Investigation and Remediation. Division of Environmental Remediation. May 2010.

NYSDOH (2006). Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006.

Tetra Tech (2015). Project Specific Health and Safety Plan, Former Unisys Facility, Lake Success, New York. December 2015.

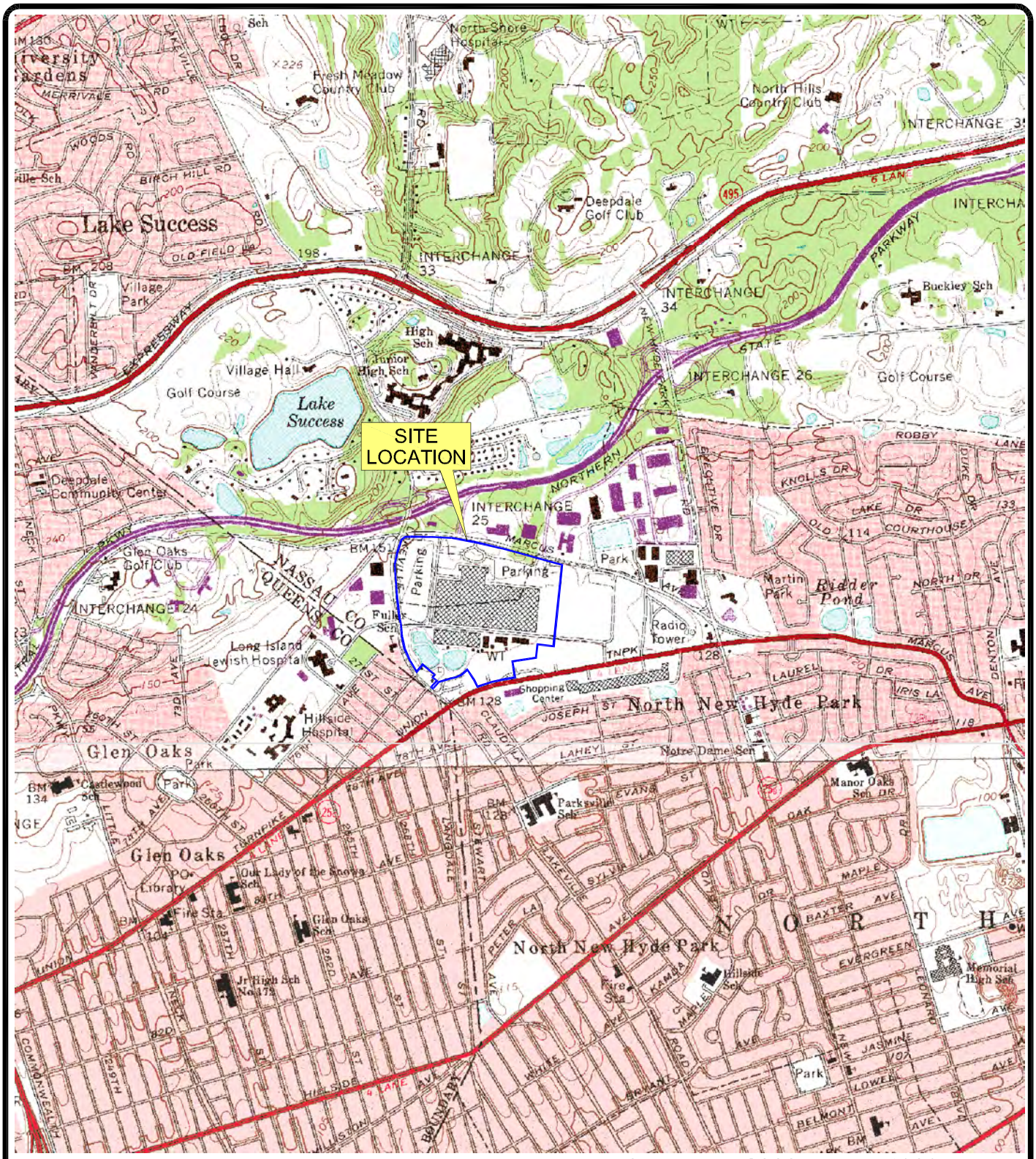
Tetra Tech (2016). Soil Vapor Monitoring Report 2016, Former Unisys Facility, Lake Success, New York. July 2016.

Tetra Tech (2017) Soil Vapor and Vapor Intrusion Monitoring Work Plan 2017, Former Unisys Facility – Great Neck, Lake Success, New York, February 2017.

URS Corporation (2015a). Revised Soil Vapor Monitoring Work Plan 2015, Former Unisys Facility, Lake Success, New York. January 2015.

URS Corporation (2015). Soil Vapor Monitoring Report 2015, Former Unisys Facility, Lake Success, New York. July 2015.

FIGURES



SOURCES: U.S.G.S TOPOGRAPHIC SERIES (NY)
SEA CLIFF, DATED 1968, PHOTOREVISED 1979
HORIZONTAL DATUM: NAD1927, VERTICAL DATUM: NGVD1929
LATITUDE: 040° 45' 22.07"N, LONGITUDE: 073° 41' 53.55"W

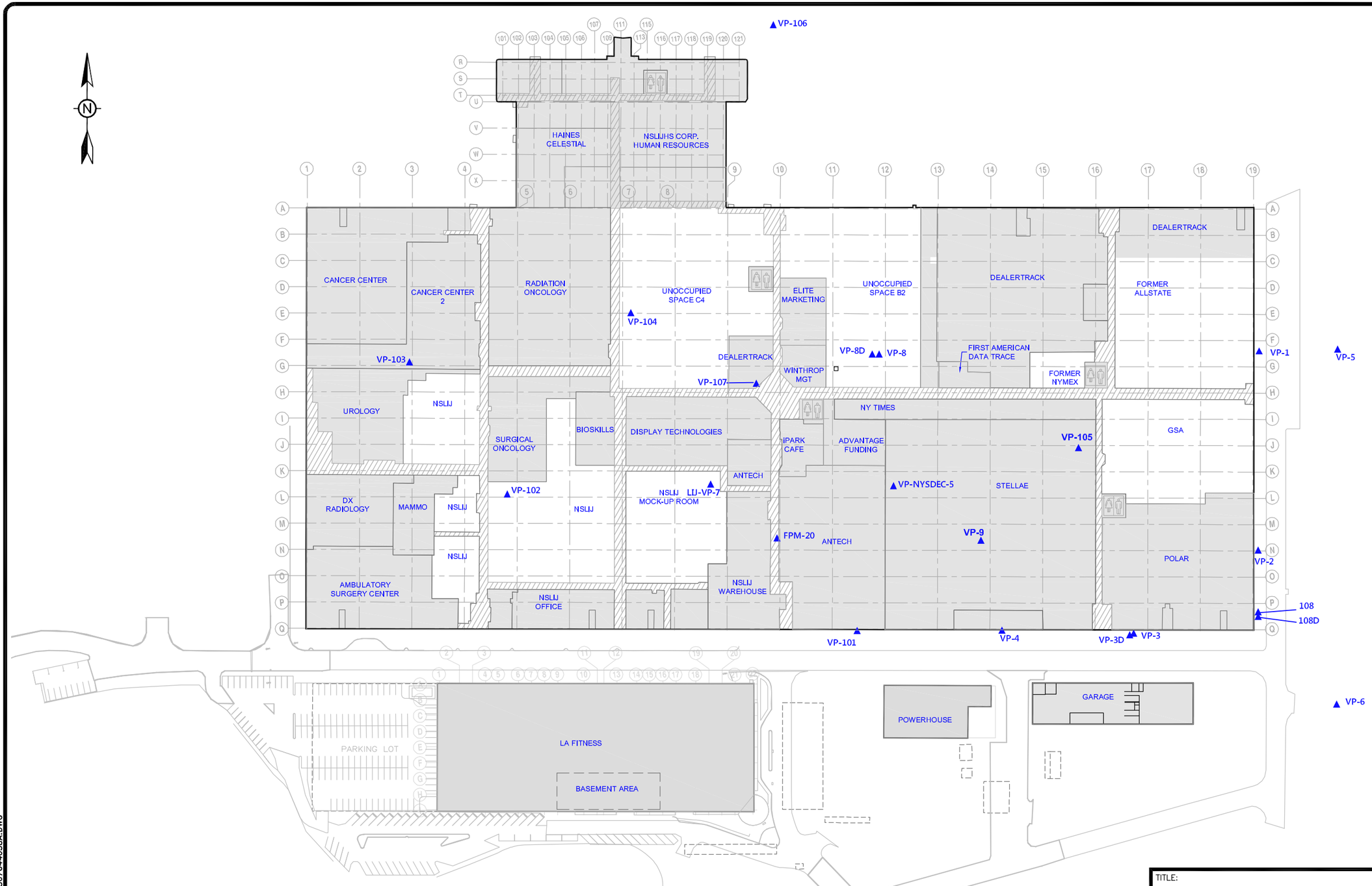
PROJECT:	**Lockheed Martin Corporation Former Unisys Facility**
LOCATION:	**Lake Success, New York**
TITLE:	**SITE LOCATION MAP**

TETRA TECH

APPROVED	SF
DRAFTED	CP
PROJECT#	117-0507642
DATE	7-20-17

FIGURE **1-1**

P:\ACAD\0507-644-LOCK\0507644036A.DWG



LEGEND

▲ VP-107
▲ FPM-20

NESTED WELL SAMPLE LOCATIONS

NOTE:

OCCUPIED TENANT AREAS ARE SHOWN IN GRAY.

0 150 300

SCALE IN FEET

TITLE:

NESTED SOIL VAPOR SAMPLING LOCATIONS - IPARK

LOCATION:

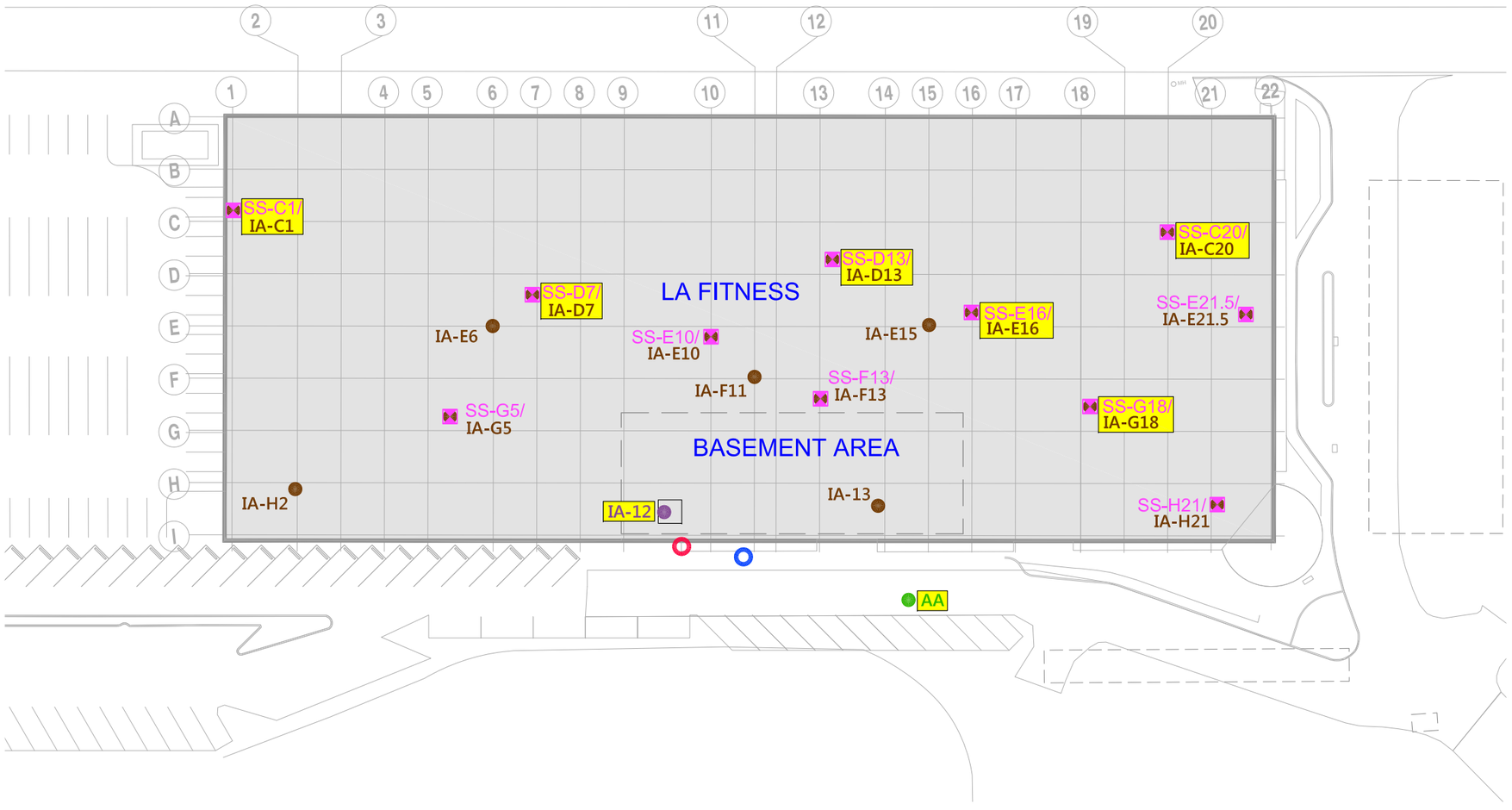
Former Unisys Facility
Lake Success, New York

TETRA TECH

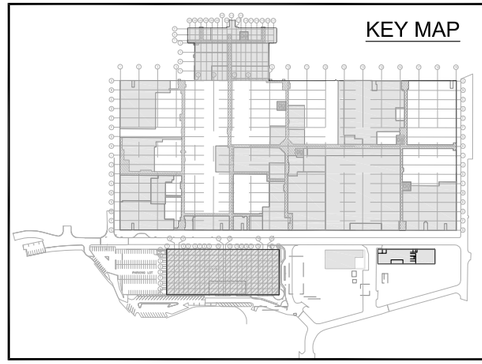
APPROVED	JB
DRAFTED	CP
PROJECT#	117-0507644
DATE	8-9-17

FIGURE **2-1**

P:\ACAD\0507-644-LOCK\0507644038A.DWG



KEY MAP



LEGEND

IA-13	INDOOR AIR SAMPLE LOCATION
SS-14/ IA-14	HISTORIC SUB-SLAB SOIL VAPOR/INDOOR AIR SAMPLE LOCATIONS
SS-C1/ IA-14	PAIRED SUB-SLAB SOIL VAPOR/INDOOR AIR SAMPLE LOCATIONS
SS-12	BASEMENT AIR SAMPLE LOCATION
	PASSIVE VENT EXHAUST
	PASSIVE VENT INLET
AA	AMBIENT AIR SAMPLE LOCATION
	LOCATION WILL BE SAMPLED THIS YEAR

NOTES:

1. SUB-SLAB MONITORING POINTS SS-LAC8 AND SS-14 WERE REPLACED BY NEW MONITORING POINTS SS-07 AND SS-C20, RESPECTIVELY DURING 2015.
2. SS-MONITORING POINTS SS-C1, SS-E10, SS-E16, SS-G5 AND SS-H21 WERE INSTALLED IN THE LA FITNESS BUILDING DURING 2015.

0 60 120

SCALE IN FEET

N

TITLE: **PAIRED SUB-SLAB VAPOR AND INDOOR AIR SAMPLING LOCATIONS - LA FITNESS**

LOCATION: **Former UNISYS Facility Lake Success, New York**

TETRA TECH

APPROVED	TJ
DRAFTED	CP
PROJECT#	117-0507644
DATE	7-20-17

FIGURE **2-2**

P:\ACAD\0507-644-LOCK\0507644037A.DWG

VP-104	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	250	67	NA	0.27	ND	3.3	ND	500	110	NA	0.82	ND	ND	ND
10	760	690	620	0.8	ND	5.7	ND	1,300	890	920	2.0	1.4	3	1.9
19	1,300	1,700	1,200	960	49	74.2	56.0	1,700	1,100	1,000	400	28	41.9	36.6
30	1,600	1,900	1,300	2,000	100	280	139	1,500	1,100	960	870	51	145	92.3
40	1,500	2,000	1,500	2,100	140	323	194	1,600	1,100	1,200	880	68	172	118
50	2,200	2,000	2,200	2,100	1,300	1,370	1,260	1,200	970	990	860	600	661	638
62	2,100	1,800	2,100	2,000	340	711	456	1,000	820	960	880	150	845	212
73	1,900	1,800	2,100	650	930	1,140	1,170	890	830	930	270	370	466	611

LIJ-VP-7	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	240	160	NA	1	0.44	2.0*	ND	8,700	4,900	NA	2	1.1	1.8*	ND
10	380	300	260	4	15	28.6	ND	7,300	9,300	8,900	43	33	47	1
20	4,700	2,800	3,100	5,500	3,400	4,510	3,320	36,000	20,000	21,000	7,600	4,100	5,170	4,570
30	39,000	30,000	32,000	60,000	91,000	2,100	650000*	41,000	37,000	40,000	40,000	53,000	1,360	430000*
40	53,000	45,000	53,000	22,000	15,000	11,800	180,000	50,000	31,000	38,000	12,000	8,900	7,500	13,400
50	5,400	3,200	4,900	2,700	2,400	28.2	2,440.0	3,100	1,500	2,600	1,700	1,400	28.3	2,150.0

VP-103	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	52	37	NA	0.18	0.45	ND	1.00	18	13	NA	0.83	ND	ND	ND
10	69	54	NA	5.9	2.4	4.0	3.4	23	18	NA	3.2	1.6	2.9	1.8
20	150	98	86	170	170	48.7	ND	57	36	30	60	39	15.7	ND
30	400	270	200	470	340	264	135	170	95	64	160	100	97	68
40	580	600	410	590	350	395	334	220	210	110	200	130	125	227
50	650	660	750	540	410	222	352	240	240	240	190	150	91	229
62	610	640	670	540	430	305	194	230	230	220	190	140	180	126
75	610	630	660	460	350	333	66.4	230	230	920	160	120	201	44.1

VP-102	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	86	54	NA	0.25	ND	ND	113	290	170	NA	0.92	ND	ND	88.3
9	120	77	NA	0.45	0.44	ND	ND	300	200	NA	1.0	0.76	ND	0.56
20	620	360	120	2.4	1.4	5.2	1.9	500	390	190	3.7	2.4	1.8	3.1
51	1,200	1,000	1,200	960	630	370	427	680	450	520	470	330	198	332
58	1,200	890	1,300	890	650	432	927	610	390	560	410	350	246	363
61	1,300	190	1,300	920	650	349	467	620	450	540	450	350	194	368
74	1,100	980	1,100	890	500	453	0.82	660	440	470	450	320	280	1.2

VP-NYSDEC 5	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	210	44	250	130	8.4	39.4	1.2	11	9	12	4	6.2	2.5	4.7
10	420	220	260	8	1.2	12.9	9.6	61	23	28	2	1.4	2.1	1.8
20	31,000	16,000	19,000	1,800	1,000	808	1,720	2,700	1,600	1,700	160	59	72.5	98.1
30	59,000	35,000	43,000	4	92,000	189,000	100,000	2,500	2,600	3,100	6	6,000	12,100	8,450
40	72,000	50,000	84,000	170,000	96,000	328,000	564,000	8,600	6,500	8,700	11,000	6,500	35,000	59,300
50	230,000	150,000	210,000	400,000	160,000	344,000	848,000	2,200	1,100	2,000	1	830	3,850	6,860

FPM-20	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	0.51	0.53	52	0.62	ND	1.9	ND	1.2	1.3	660	0.83	ND	ND	ND
9	54	55	260	0.65	0.83	5.2	1.0	440	570	8,900	1.9	2.0	2.4	3.0

VP-9	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
10	5,100	3,000	4,000	62	14	20.1*	108	1,100	730	940	17	5.4	6.7*	13
20	35,000	24,000	24,000	7,300	1,800	905	638	4,500	3,200	3,600	1,100	420	377	340
30	120,000	100,000	85,000	47,000	18,000	14,800	15,300	11,000	9,600	8,400	4,500	1,900	1,870	2,380
40	330,000	270,000	470,000	390,000	390,000	647,000	1,310,000	19,000	24,000	49,000	41,000	42,000	126,000	183,000
50	17,000	10,000	45,000	30,000	11,000	33,400	26,400	1,800	1,000	5,000	3,500	1,300	3,990	3,870
60	34,000	29,000	48,000	28,000	12,000	40,000	26,000	4,300	3,300	5,400	3,800	1,700	5,840	4,410

VP-101	TCE						PCE					
	Pre-SSDS			Post-SSDS			Pre-SSDS			Post-SSDS		
Depth	2011	2012	2013	2014	2015	2016	2011	2012	2013	2014	2015	2016
5	1.9	0.79	NA	0.17	0.32	1.3	1.4	1.5	NA	0.85	1.7	1.8
15	2.6	3.3	NA	1.4	5.7	2.9	3.1	3.4	NA	1.8	12	5.1
27	7.5	63	NA	49	40	68.5	4.3	49	NA	45	31	53.5

VP-107	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	32,000	26,000	1,800	3.8	0.77	ND	184	180	170	10	1	3.7	ND	114
10	26,000	12,000	11,000	110	320	2,700	53	1,400	1,300	850	4	4.1	32.9	ND
20	13,000	8,600	17,000	6,700	92,000	6,650	307,000	1,000	2,000	1,400	63	ND	2,410	568
33	31,000	15,000	88,000	35,000	160,000	5,630	535,000	1,900	2,100	1,600	1	1,200	1,840	1,360
44	37,000	25,000	110,000	170,000	44,000	6,730	7,100	1,600	2,100	2,200	1	1,000	1,190	1,530
60	11,000	12,000	29,000	8,000	5,200	2,910	20,400	1,400	2,000	2,500	1,300	1,300	919	1,390
74	4,000	6,600	16,000	8,000	2,200	2,070	5,840	830	1,600	2,100	1,400	790	762	1,090

VP-106	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	120	1	NA	0.22	ND	ND	ND	8.7	7.4	NA	3.8	2.0	3	3.9
11	7	5	NA	1.9	0.36	0.79	1.50	19	15	NA	7.1	3.7	4.3	8.4
20	23	14	NA	8.7	5.6	11.2	8.0	43	25	NA	18	13	22.5	19.9
28	17	15	NA	10	10	13.7	6.6	36	31	NA	29	30	32.4	26.7
56	1,900	1,800	NA	1,200	820	686	1020	550	480	NA	300	140	275	305
72	2,600	2,200	NA	2,600	1,000	1650*	2,230	680	560	NA	640	160	355*	617
84	2,500	2,300	NA	2,400	950	2,370	1,330	590	500	NA	560	210	580	552

VP-8 & 8D	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	92	7	33	0.2	ND	5.6	ND	21	1	8	1	ND	ND	ND
10	150	53	56	1	0.56	12.80	0.76	48	18	18	1	ND	ND	ND
20	350	260	240	21	17	21.1	18.3	260	200	200	2	0.73	2.6	2.3
53	120,000	68,000	73,000	45,000	28,000	97,900	78,900	2,100	1,500	1,700	1,200	780	2,230	1,980
62	88,000	45,000	48,000	42,000	24,000	65,700	32,800	2,100	1,300	1,400	1,600	1,100	2,680	1,460
72	64,000	42,000	57,000	28,000	12,000	23,800	13,200	1,700	1,500	1,700	1,500	910	1,690	998

VP-105	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	470	170	NA	1.8	1.2	2.1	49.9	1,500	610	NA	6.1	2.4	1.7	10.2
10	560	290	240	230	120	133	5	2,100	1,200	1,200	130	53	68	9
20	650	410	490	310	160	127	170	2,400	1,600	2,800	120	62	73.6	103.0
32	890	NA	NA	4,000	8.7	NS	NS	880	NA	NA	670	9.0	NS	NS
50	80,000	43,000	73,000	33,000	13,000	37,200	34,500	3,000	2,500	3,400	1,200	1,500	4,590	1,880
60	52,000	39,000	60,000	30,000	3.6	40,500	30,100	2,400	2,500	3,000	2,000	1.1	4,800	1,730
72	33,000	20,000	30,000	14,000	7,300	5,960	12,200	2,400	2,100	2,300	1,400	1,500	1,520	1,400

VP-1	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	10	11	NA	5	4.0	8.9	3.9	1	1	NA	1	ND	ND	ND
10	12	9	NA	4	2.1	3.9	4.0	1	1	NA	1	ND	ND	ND
20	270	110	NA	31	33	52.5	26.0	24	18	NA	5	5.2	9.1	4.0
30	650	540	NA	140	190	ND	176	39	32	NA	14	18	ND	22.6

VP-5	TCE						PCE					
	Pre-SSDS			Post-SSDS			Pre-SSDS			Post-SSDS		
Depth	2011	2012	2013	2014	2015	2016	2011	2012	2013	2014	2015	2016
5	0.76	NA	NA	0.76	ND	NS	130	NA	NA	13	ND	NS
10	0.15	0.16	NA	0.70	ND	ND	84	0.81	NA	24	37	66.4
20	100	66	NA	82	93	91.2	150	0.80	NA	77	82	103
30	120	48	NA	120	160	70.9	190	19	NA	120	150	77.1

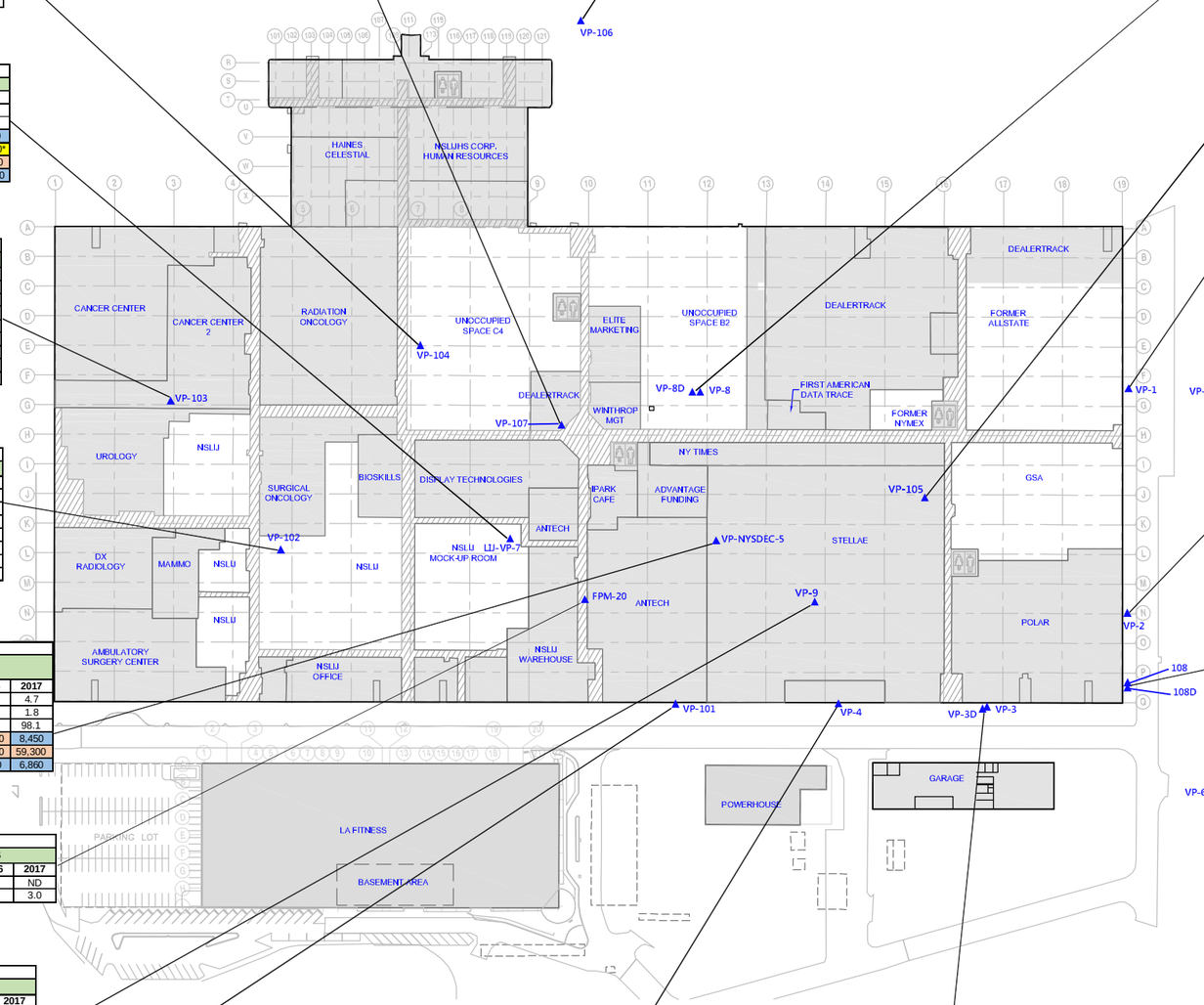
VP-2	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	86	110	NA	10	6.5	11.2	21.7	2,300	2,200	NA	180	160	179	339
10	360	730	NA	310	120	166	269	3,500	5,500	NA	2,100	530	1,520	1,930
20	82	57	NA	160	50	78.4	151.0	240	120	NA	87	73	170	179
30	460	270	NA	260	200	148	288	530	300	NA	240	220	178	391

VP-108 &108D	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	3	2	NA	2	2.0	ND	ND	3	2	NA	3	2.7	ND	0.78
10	7	4	NA	3	2.5	3.4	5.4	12	9	NA	4	3.5	13.6	7.7
20	65	41	NA	8	9.2	26.9	69.4	170	100	NA	13	28	161	958
30	5,200	3,700	NA	12,000	2,600	32,800	13,800	7,000	4,600	NA	18,000	17,000	403,000	209,000
50	6,000	3,200	NA	1,500	630	393*	23	3,400	4,600	NA	9,500	930	719*	34
60	2,200	3,900	NA	2,500	1,500	ND	127	400	640	NA	3,600	6,600	ND	100
70	1,000	2,000	NA	2,100	610	30.9	309.0	270	520	NA	4,300	1,400	128	118

VP-6	TCE						PCE					
	Pre-SSDS			Post-SSDS			Pre-SSDS			Post-SSDS		
Depth	2011	2012	2013	2014	2015	2016	2011	2012	2013	2014	2015	2016
5	0.92	0.89	NA	0.6	0.38	1.2	27	25	NA	14	13	14.6
10	0	0.16	NA	ND	ND	ND	36	22	NA	7	6.0	14
20	14	9.2	NA	4	2.8	5.2	110	63	NA	33	25	67.2
30	57	33	NA	12	14	22.5	210	91	NA	44	53	95

VP-3& 3D	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	2	3	NA	1	ND	3.1	1.7	37	40	NA	12	ND	10	13.8
10	30	21	NA	6	6.8	154	10	190	130	NA	29	26	514	36
20	170	140	NA	120	87	ND	46	730	620	NA	270	210	ND	127
30	230	180	NA	120	ND	152	83.4	770	610	NA	250	ND	494	172
40	250	220	NA	110	140	161	33	870	660	NA	280	380	558	70
51	490	370	NA	240	110	193	139	1,300	870	NA	600	270	640	372
61	530	550	NA	390	300	165	242	1,400	1,100	NA	970	700	702	611
73	330	360	NA	240	380	106	186	770	670	NA	540	610	472	461

VP-4	TCE							PCE						
	Pre-SSDS			Post-SSDS				Pre-SSDS			Post-SSDS			
Depth	2011	2012	2013	2014	2015	2016	2017	2011	2012	2013	2014	2015	2016	2017
5	25	30	NA	2.4	0.91	2.2	1.9	50	60	NA	13	3.0	5.2	1.3
10	51	44	NA	1.9	1.4	4.0	5.4	71	60	NA	5.4	3.0	5.5	5.6
20	170	93	NA	3.1	5.6	5.9	6.0	170	20	NA	3.1	5.6	5.8	6.3
30	650	510	NA	110	97	63.7	59.3	810	540	NA	130	96	70.2	71.9



PCE/TCE above 1,000 ug/m3

PCE/TCE above 10,000 ug/m3

PCE/TCE above 100,000 ug/m3

* Results from Duplicate Sample

0 200 400

SCALE IN FEET

NOTES:

* RESULTS FROM DUPLICATE SAMPLE

NS NOT SAMPLED DUE TO WATER IN SAMPLE LINE

ND THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED ABOVE THE REPORTING LIMIT

TITLE:

NESTED WELL VAPOR SAMPLING RESULTS (2011-2016)

LOCATION:

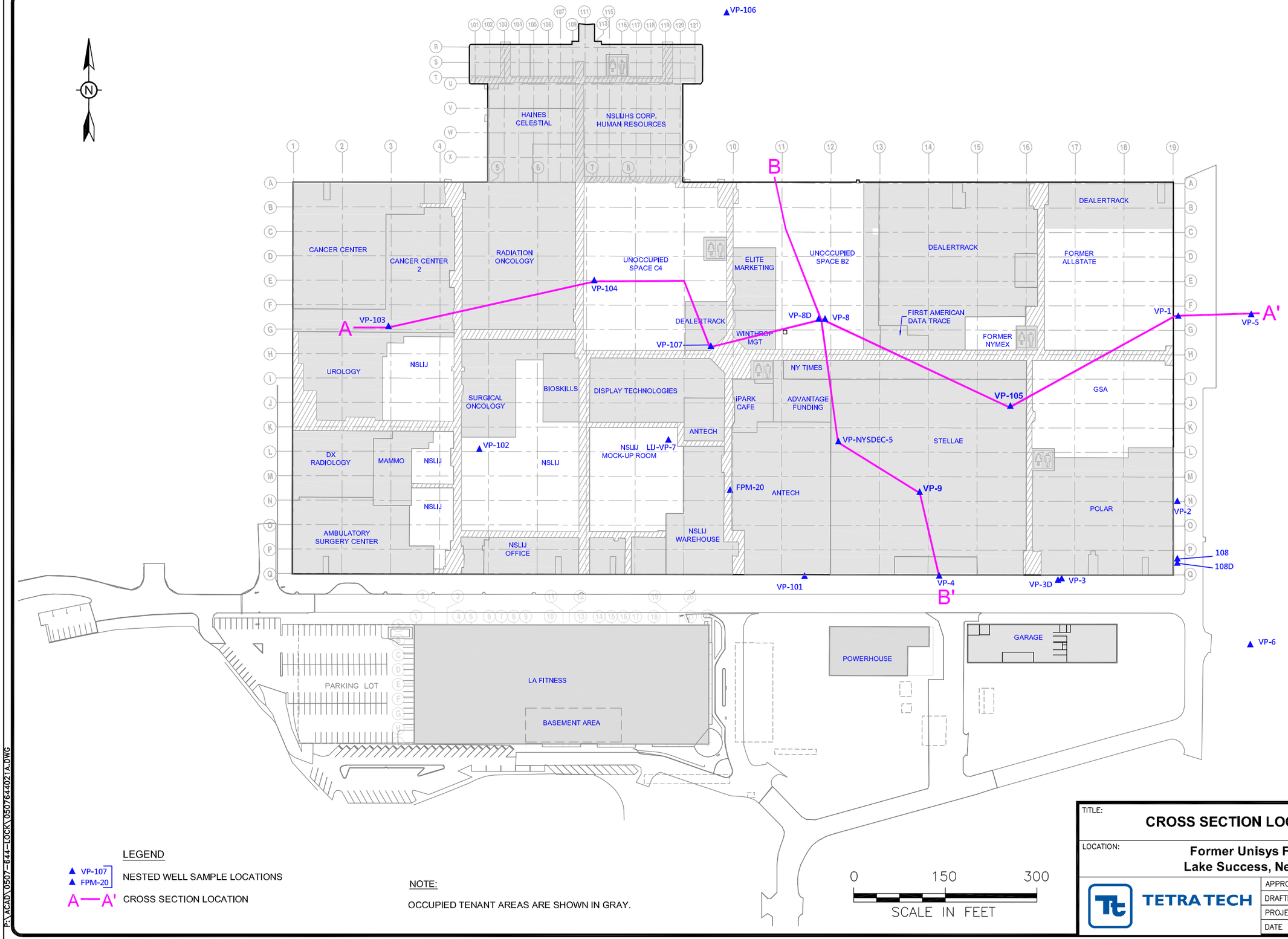
Former Unisys Facility
Lake Success, New York

TETRA TECH

APPROVED	JB
DRAFTED	CP
PROJECT#	117-0507644
DATE	8-9-17

FIGURE 4-1

P:\ACAD\0507-644-LOCK\0507644030A.DWG



LEGEND

▲ VP-107
▲ FPM-20 — NESTED WELL SAMPLE LOCATIONS

A—A' CROSS SECTION LOCATION

NOTE:

OCCUPIED TENANT AREAS ARE SHOWN IN GRAY.

0 150 300

SCALE IN FEET

TITLE: **CROSS SECTION LOCATION MAP**

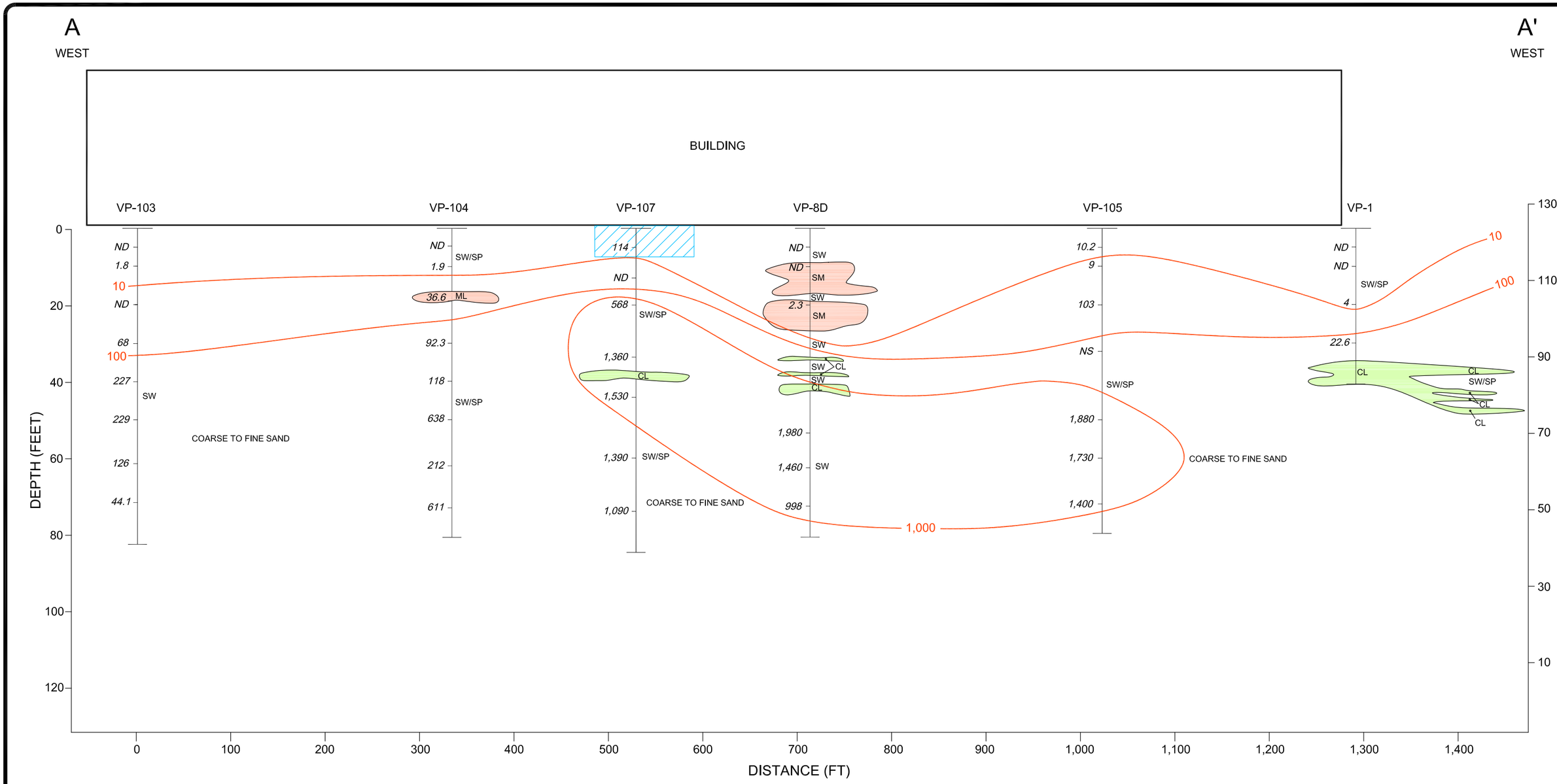
LOCATION: **Former Unisys Facility**
Lake Success, New York

TETRA TECH

APPROVED	JB
DRAFTED	CP
PROJECT#	117-0507644
DATE	8-9-17

FIGURE **4-2**

P:\ACAD\0507-644-LOCK\0507644021A.DWG



LEGEND

- VP-1 ← WELL ID
- 15.7 ← PCE SOIL VAPOR CONCENTRATION IN MICROGRAMS PER CUBIC METER (ug/m^3)
- 100 ← INFERRED PCE SOIL VAPOR CONCENTRATION CONTOUR IN MICROGRAMS PER CUBIC METER (ug/m^3)
- SW ← USCS SOIL CLASSIFICATION
- ← BORING

- CLAY, CLAY & SAND, SILTY CLAY
- SAND & SILT
- FORMER PLATING PIT

PCE	TETRACHLOROETHENE
SW	WELL GRADED SANDS
SP	POORLY GRADED SANDS
CL	CLAYS, GRAVELLY, SANDY, OR SILTY CLAYS
SM	SILTY SANDS, SAND-SILT MIXTURES

NOTES:

1. J = ESTIMATED VALUE
2. ND = COMPOUND NOT DETECTED ABOVE METHOD DETECTION LIMIT.
3. DUPLICATE VALUES ARE REPRESENTED IN BRACKETS.
4. SEE ASSOCIATED DATA TABLES FOR NUMERICAL SUMMARY OF THE SOIL VAPOR RESULTS.
5. LITHOLOGIC DESCRIPTIONS OF SOIL ARE FROM DRAFT SUPPLEMENTAL PERCHED WATER INVESTIGATION REPORT DATED OCTOBER, 2011 PREPARED BY ARCADIS.

TITLE: **CROSS SECTION A-A' WITH PCE SOIL VAPOR CONCENTRATIONS (ug/m^3)**

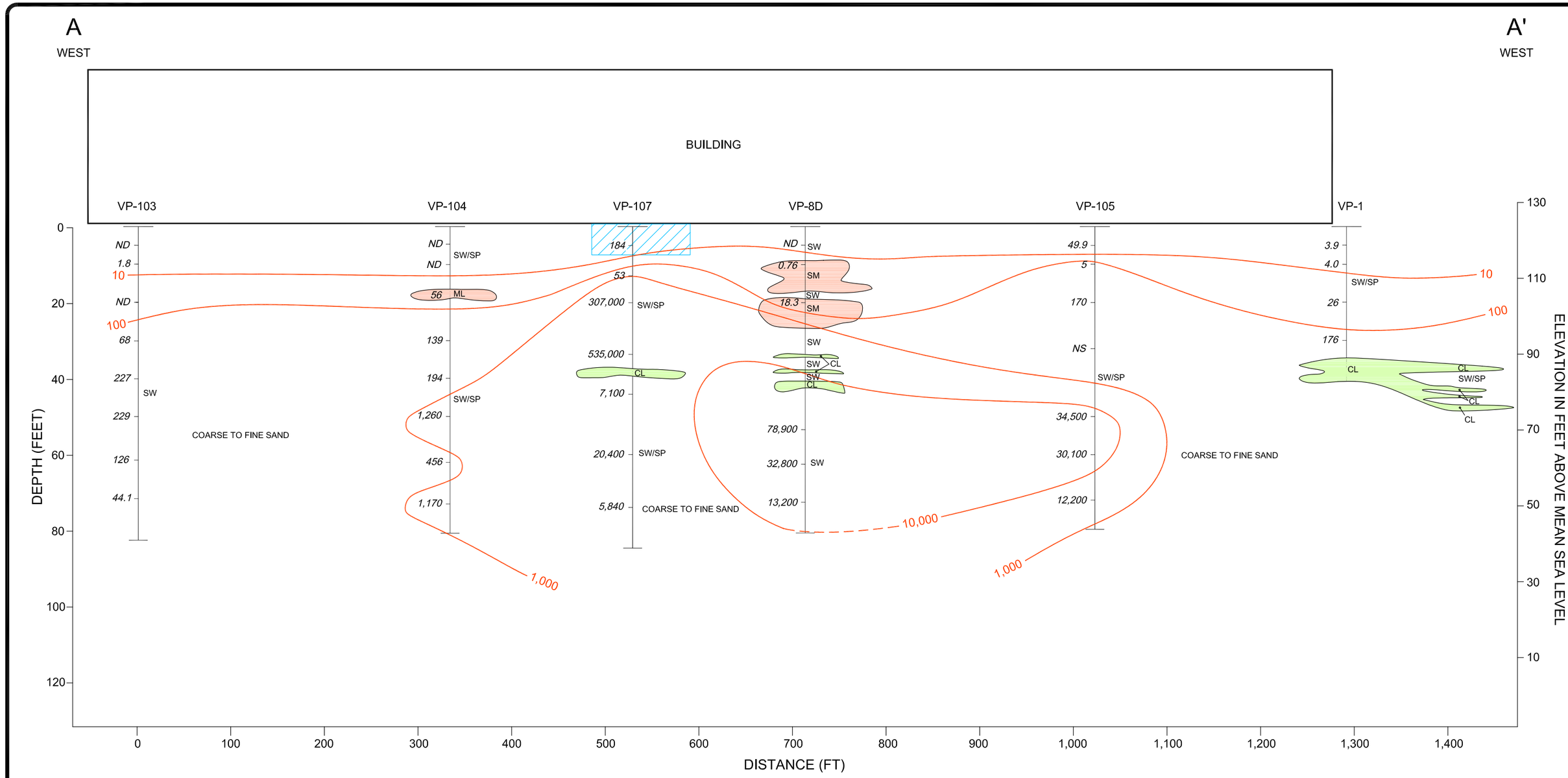
LOCATION: **Former Unisys Facility Lake Success, New York**

TETRA TECH

APPROVED	JB
DRAFTED	CP
PROJECT#	117-0507644
DATE	7-20-17

FIGURE **4-3**

P:\ACAD\0507-644-LOCK\0507644031A.DWG



LEGEND

- VP-1 ← WELL ID
- 15.7 ← TCE SOIL VAPOR CONCENTRATION IN MICROGRAMS PER CUBIC METER (ug/m^3)
- 100 ← INFERRED TCE SOIL VAPOR CONCENTRATION CONTOUR IN MICROGRAMS PER CUBIC METER (ug/m^3)
- SW ← USCS SOIL CLASSIFICATION
- ← BORING

- CLAY, CLAY & SAND, SILTY CLAY
- SAND & SILT
- FORMER PLATING PIT

TCE	TRICHLOROETHENE
SW	WELL GRADED SANDS
SP	POORLY GRADED SANDS
CL	CLAYS, GRAVELLY, SANDY, OR SILTY CLAYS
SM	SILTY SANDS, SAND-SILT MIXTURES

NOTES:

1. J = ESTIMATED VALUE
2. ND = COMPOUND NOT DETECTED ABOVE METHOD DETECTION LIMIT.
3. DUPLICATE VALUES ARE REPRESENTED IN BRACKETS.
4. SEE ASSOCIATED DATA TABLES FOR NUMERICAL SUMMARY OF THE SOIL VAPOR RESULTS.
5. LITHOLOGIC DESCRIPTIONS OF SOIL ARE FROM DRAFT SUPPLEMENTAL PERCHED WATER INVESTIGATION REPORT DATED OCTOBER, 2011 PREPARED BY ARCADIS.

TITLE: **CROSS SECTION A-A' WITH TCE SOIL VAPOR CONCENTRATIONS (ug/m^3)**

LOCATION: **Former Unisys Facility Lake Success, New York**

TETRA TECH

APPROVED	JB
DRAFTED	CP
PROJECT#	117-0507644
DATE	7-20-17

FIGURE **4-4**

P:\ACAD\0507-644-LOCK\0507644032A.DWG

B

NORTH

B'

SOUTH

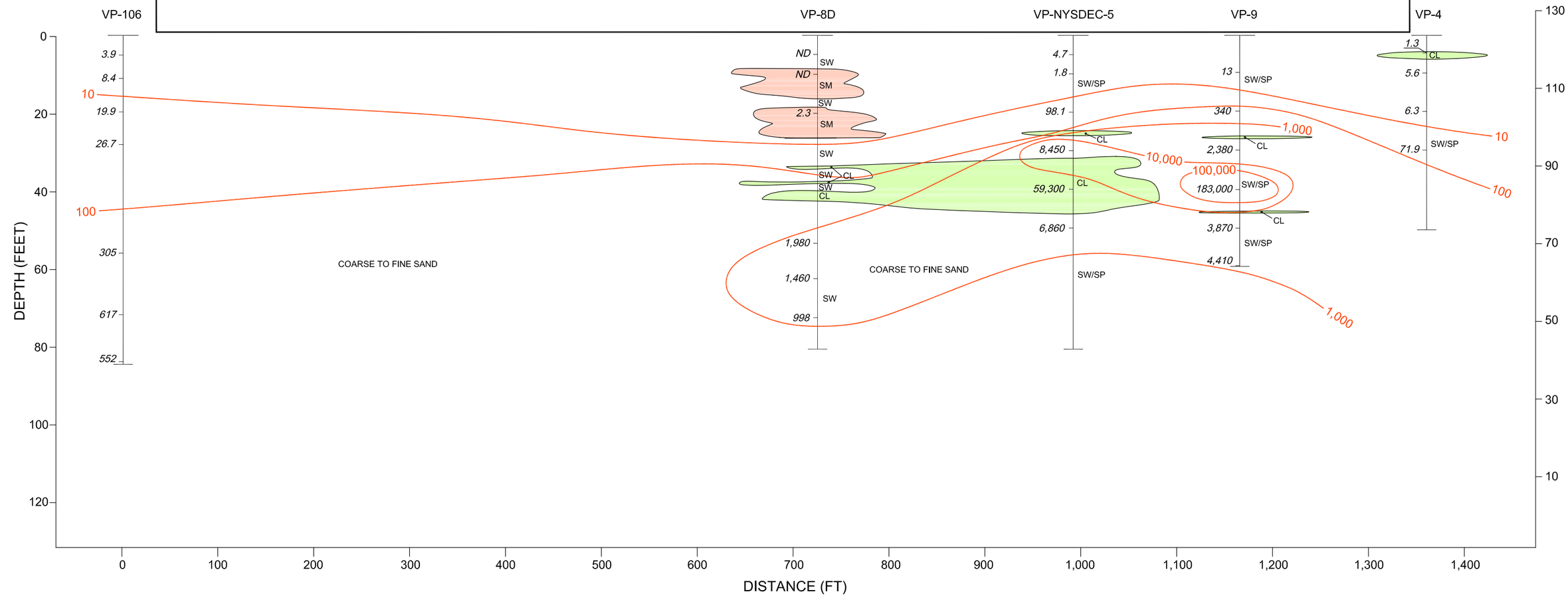
BUILDING

VP-106 | VP-8D | VP-NYSDEC-5 | VP-9 | VP-4

DEPTH (FEET)

ELEVATION IN FEET ABOVE MEAN SEA LEVEL

DISTANCE (FT)



LEGEND

VP-1 ← WELL ID

15.7 ← PCE SOIL VAPOR CONCENTRATION IN MICROGRAMS PER CUBIC METER (ug/m^3)

100 ← INFERRED PCE SOIL VAPOR CONCENTRATION CONTOUR IN MICROGRAMS PER CUBIC METER (ug/m^3)

SW ← USCS SOIL CLASSIFICATION

← BORING

CLAY, CLAY & SAND, SILTY CLAY

SAND & SILT

PCE	TETRACHLOROETHENE
SW	WELL GRADED SANDS
SP	POORLY GRADED SANDS
CL	CLAYS, GRAVELLY, SANDY, OR SILTY CLAYS
SM	SILTY SANDS, SAND-SILT MIXTURES

NOTES:

1. J = ESTIMATED VALUE
2. ND = COMPOUND NOT DETECTED ABOVE METHOD DETECTION LIMIT.
3. DUPLICATE VALUES ARE REPRESENTED IN BRACKETS.
4. SEE ASSOCIATED DATA TABLES FOR NUMERICAL SUMMARY OF THE SOIL VAPOR RESULTS.
5. LITHOLOGIC DESCRIPTIONS OF SOIL ARE FROM DRAFT SUPPLEMENTAL PERCHED WATER INVESTIGATION REPORT DATED OCTOBER, 2011 PREPARED BY ARCADIS.

TITLE: **CROSS SECTION B-B' WITH PCE SOIL VAPOR CONCENTRATIONS (ug/m^3)**

LOCATION: **Former Unisys Facility Lake Success, New York**

TETRA TECH

APPROVED	JB
DRAFTED	CP
PROJECT#	117-0507644
DATE	7-20-17

FIGURE **4-5**

P:\ACAD\0507-644-LOCK\0507644033A.DWG

B

NORTH

B'

SOUTH

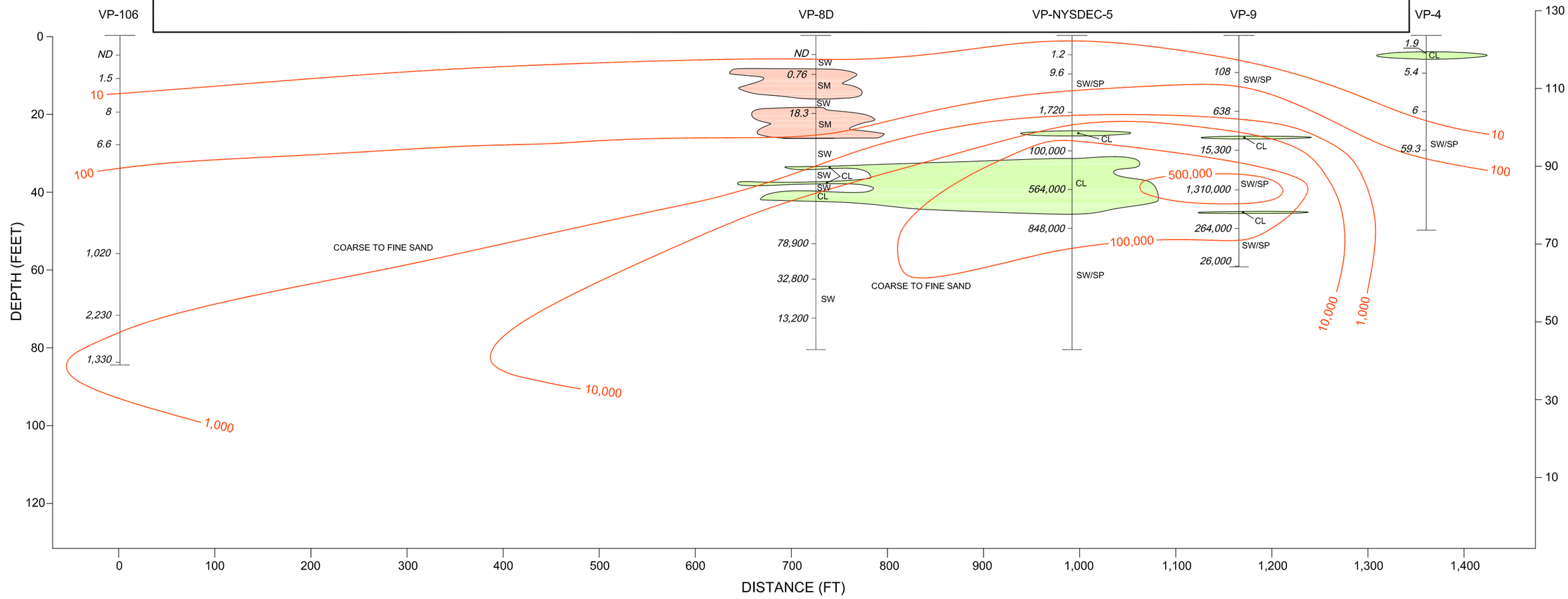
BUILDING

VP-106 | VP-8D | VP-NYSDEC-5 | VP-9 | VP-4

DEPTH (FEET)

ELEVATION IN FEET ABOVE MEAN SEA LEVEL

DISTANCE (FT)



LEGEND

VP-1 ← WELL ID

15.7 ← TCE SOIL VAPOR CONCENTRATION IN MICROGRAMS PER CUBIC METER (ug/m^3)

100 ← INFERRED TCE SOIL VAPOR CONCENTRATION CONTOUR IN MICROGRAMS PER CUBIC METER (ug/m^3)

SW ← USCS SOIL CLASSIFICATION

← BORING

CLAY, CLAY & SAND, SILTY CLAY

SAND & SILT

TCE	TRICHLOROETHENE
SW	WELL GRADED SANDS
SP	POORLY GRADED SANDS
CL	CLAYS, GRAVELLY, SANDY, OR SILTY CLAYS
SM	SILTY SANDS, SAND-SILT MIXTURES

NOTES:

1. J = ESTIMATED VALUE
2. ND = COMPOUND NOT DETECTED ABOVE METHOD DETECTION LIMIT.
3. DUPLICATE VALUES ARE REPRESENTED IN BRACKETS.
4. SEE ASSOCIATED DATA TABLES FOR NUMERICAL SUMMARY OF THE SOIL VAPOR RESULTS.
5. LITHOLOGIC DESCRIPTIONS OF SOIL ARE FROM DRAFT SUPPLEMENTAL PERCHED WATER INVESTIGATION REPORT DATED OCTOBER, 2011 PREPARED BY ARCADIS.

TITLE: **CROSS SECTION B-B' WITH TCE SOIL VAPOR CONCENTRATIONS (ug/m^3)**

LOCATION: **Former Unisys Facility Lake Success, New York**

TETRA TECH

APPROVED	JB
DRAFTED	CP
PROJECT#	117-0507644
DATE	7-20-17

FIGURE **4-6**

P:\ACAD\0507-644-LOCK\0507644034A.DWG

SS-C1	Feb-17	Feb-17 Dup
1,1-TCA	ND	ND
1,1-DCE	ND	ND
CCL4	ND	ND
CIS-1,2-DCE	ND	ND
MC	20.6 J	ND
PCE	8.9	9.0
TCE	80.6	80.1
VC	ND	ND

IA-C1	Feb-17
1,1-TCA	ND
1,1-DCE	ND
CCL4	ND
CIS-1,2-DCE	ND
MC	5.3 J
PCE	1.3 J
TCE	ND
VC	ND

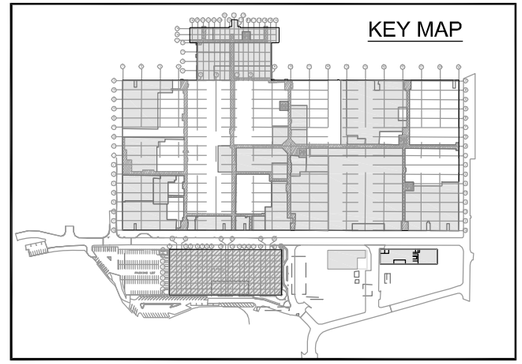
SS-D7	Feb-17
1,1-TCA	7.2
1,1-DCE	ND
CCL4	ND
CIS-1,2-DCE	ND
MC	4.9 J
PCE	14.8
TCE	90.9
VC	ND

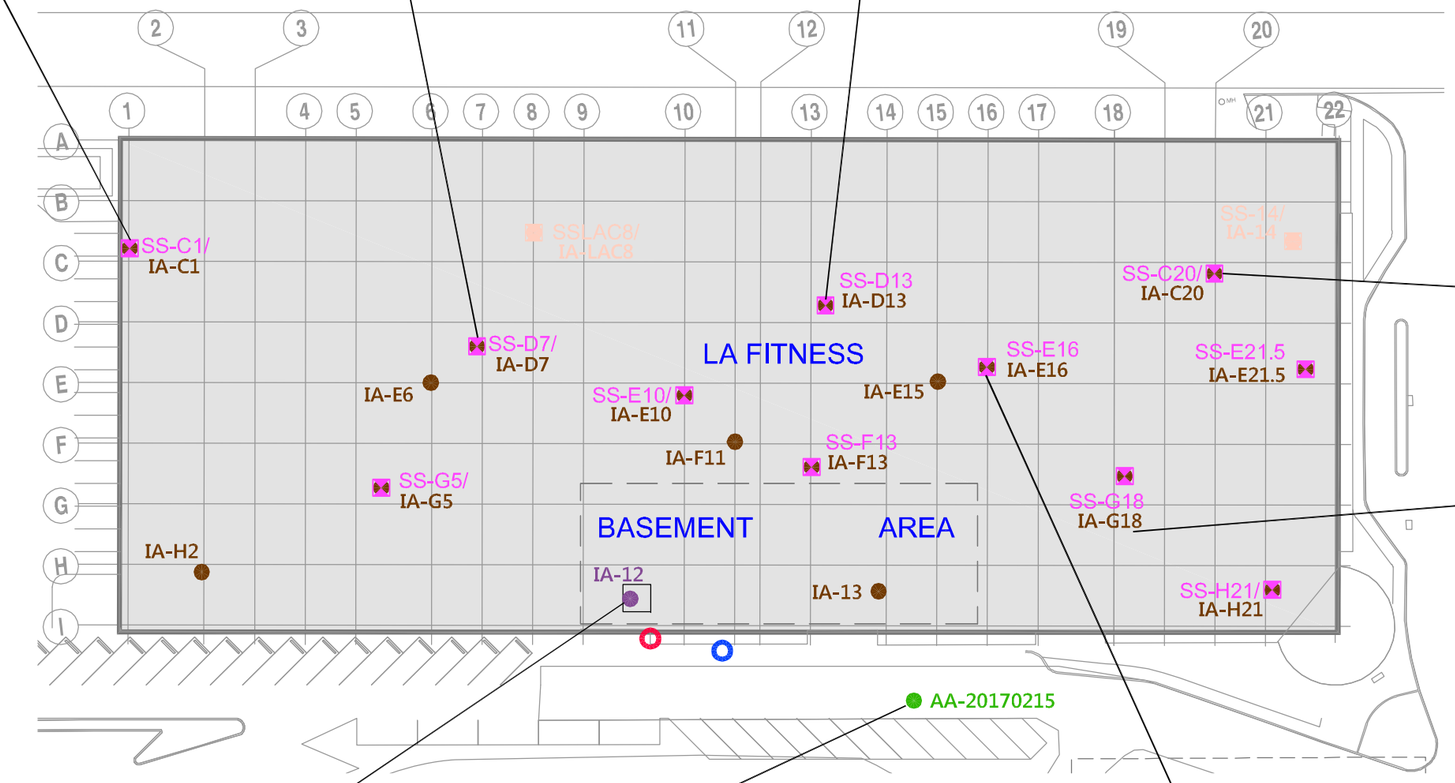
IA-D7	Feb-17
1,1-TCA	ND
1,1-DCE	ND
CCL4	ND
CIS-1,2-DCE	ND
MC	7.1 J
PCE	1.2 J
TCE	ND
VC	ND

SS-D13	Feb-17
1,1-TCA	ND
1,1-DCE	ND
CCL4	ND
CIS-1,2-DCE	ND
MC	4.0 J
PCE	49.3
TCE	5
VC	ND

IA-D13	Feb-17
1,1-TCA	ND
1,1-DCE	ND
CCL4	ND
CIS-1,2-DCE	ND
MC	4.6 J
PCE	1.3 J
TCE	ND
VC	ND

KEY MAP





SS-C20	Feb-17	IA-C20	Feb-17	Feb-17 Dup
1,1-TCA	ND	1,1-TCA	ND	ND
1,1-DCE	ND	1,1-DCE	ND	ND
CCL4	ND	CCL4	ND	ND
CIS-1,2-DCE	ND	CIS-1,2-DCE	ND	ND
MC	4.7 J	MC	3.3 J	5.2 J
PCE	643	PCE	1.3 J	1.2 J
TCE	2.3	TCE	ND	ND
VC	ND	VC	ND	ND

SS-G18	Feb-17	IA-G18	Feb-17
1,1-TCA	ND	1,1-TCA	ND
1,1-DCE	ND	1,1-DCE	ND
CCL4	1.3	CCL4	ND
CIS-1,2-DCE	ND	CIS-1,2-DCE	ND
MC	81.3 J	MC	4.5 J
PCE	22.5	PCE	1.1 J
TCE	2.7	TCE	ND
VC	ND	VC	ND

IA-12/CRAWLSPACE	Feb-17
1,1-TCA	ND
1,1-DCE	ND
CCL4	0.68 J
CIS-1,2-DCE	ND
MC	5.2 J
PCE	8.4
TCE	4.0
VC	ND

AA-20170215	Feb-17
1,1-TCA	ND
1,1-DCE	ND
CCL4	ND
CIS-1,2-DCE	ND
MC	4.6 J
PCE	1.2
TCE	ND
VC	ND

SS-E16	Feb-17	IA-E16	Feb-17
1,1-TCA	ND	1,1-TCA	ND
1,1-DCE	ND	1,1-DCE	ND
CCL4	ND	CCL4	ND
CIS-1,2-DCE	ND	CIS-1,2-DCE	ND
MC	7.9 J	MC	5.9 J
PCE	644	PCE	1.3 J
TCE	3.4	TCE	ND
VC	ND	VC	ND

1,1-TCA	1,1,1-TRICHLOROETHANE
1,1-DCE	1,1-DICHLOROETHENE
CCL4	CARBON TETRACHLORIDE
CIS-1,2-DCE	CIS-1,2-DICHLOROETHENE
MC	METHYLENE CHLORIDE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
VC	VINYL CHLORIDE

LEGEND

- IA-13 — INDOOR AIR SAMPLE LOCATION
- SS-14/ IA-14 — HISTORIC SUB-SLAB SOIL VAPOR/INDOOR AIR SAMPLE LOCATIONS
- SS-C1/ IA-14 — PAIRED SUB-SLAB SOIL VAPOR/INDOOR AIR SAMPLE LOCATIONS
- IA-12 — BASEMENT AIR SAMPLE LOCATION
- PASSIVE VENT EXHAUST
- PASSIVE VENT INLET
- AA-20170215 — AMBIENT AIR SAMPLE LOCATION

NOTES:

1. SUB-SLAB MONITORING POINTS SS-LAC8 AND SS-14 WERE REPLACED BY NEW MONITORING POINTS SS-07 AND SS-C20, RESPECTIVELY DURING 2015.
2. SS-MONITORING POINTS SS-C1, SS-E10, SS-E16, SS-G5 AND SS-H21 WERE INSTALLED IN THE LA FITNESS BUILDING DURING 2015.
3. SS-MONITORING POINTS SS-D13, SS-E21.5, SS-G18 AND SS-F13 WERE INSTALLED IN THE LA FITNESS BUILDING IN FEBRUARY 2016.

0 60 120

SCALE IN FEET

TITLE: **2017 VI SAMPLING RESULTS - LA FITNESS**
2017 SV MONITORING REPORT

LOCATION: **Former UNISYS Facility**
Lake Success, New York

TETRA TECH

APPROVED	TJ
DRAFTED	CP
PROJECT#	117-0507644
DATE	6-22-17

FIGURE 5-1

P:\ACAD\0507-644-LOCK\0507644029A.DWG

TABLES

TABLE 3-1

DRAFT

Summary of 2017 Soil Vapor Samples from Existing Nested Wells
Former Unisys Facility, Lake Sucess, New York

Tenant	Location	Date	Nested Well	Soil Vapor Sample ID	Duplicate Sample ID
NSLIJ	Interior	3/6/17	VP-102	VP-102_4.5_20170306	-
		2/26/17		VP-102_8.5_20170226	
				VP102_19.5_20170226	
				VP-102_51.5_20170226	
				VP-102_57.5_20170226	
				VP-102_61.5_20170226	
				VP-102_73.5_20170226	VP-102_73.5_20170226
Core Labs	Interior	2/26/17	VP-103	VP-103_5_20170226	-
				VP-103_10_20170226	
				VP-103_20170226	
				VP-103_30_20170226	
				VP-103_40_20170226	
				VP-103_50_20170226	
				VP-103_61.5_20170226	
				VP-103_74.5_20170226	
Unoccupied Space C4	Interior	2/21/17	VP-104	VP-104_5_20170221	-
				VP-104_10_20170221	
				VP-104_19_20170221	
				VP-104_30_20170221	
				VP-104_40_20170221	
				VP-104_50_20170221	
				VP-104_62_20170221	
				VP-104_73_20170221	
Hunter Roberts Office (Former Dealertrack)	Interior	3/6/17	VP-107	VP-107_5_20170306	-
				VP-107_13_20170306	
				VP-107_20_20170306	
				VP-107_33.5_20170306	
				VP-107_44_20170306	
				VP-107_60_20170306	
				VP-10_74_20170306	
Core Labs	Interior	2/26/17	LIJ-VP-7	LIJ-VP-7_5_20170226	LIJ-VP-7_5_20170226DUP
				LIJ-VP-7_10_20170226	-
				LIJ-VP-7_20_20170226	
		03/06/17		LIJ-VP-7_30_201700306	
		2/26/17		LIJ-VP-7_40_20170226	
				LIJ-VP-7_50_20170226	
Hallway adjacent to Antech	Interior	2/21/17	FPM-20	FPM-20_5_20170221	FPM-20_5_20170222DUP
				FPM-20_9.4_20170221	-
Unoccupied Space B2	Interior	2/21/17	VP-8	VP-8_5_20170221	-
				VP-8_10_20170221	
				VP-8_20_20170221	
Unoccupied Space B2	Interior	2/21/17	VP-8D	VP-8D_53.5_20170221	-
				VP-8D_62.5_20170221	VP-8D_62.5_20170222DUP
				VP-8D_72.5_20170221	-
Stellae	Interior	2/23/17	VP-NYSDEC-5	VP-NYSDEC-5_5_20170223	-
				VP-NYSDEC-5_10_20170223	
				VP-NYSDEC-5_20_20170223	
				VP-NYSDEC-5_30_20170223	
				VP-NYSDEC-5_40_20170223	
				VP-NYSDEC-5_50_20170223	
Stellae	Interior	2/23/17	VP-9	VP-9_10_20170223	-
				VP-9_20_20170223	
				VP-9_30_20170223	
				VP-9_40_20170223	
				VP-9_50_20170223	
				VP-9_60_20170223	VP-9_60_20170223DUP
Stellae	Interior	2/23/17	VP-105	VP-9_5_20170223	-
				VP-9_10_20170223	
				VP-9_20_20170223	
				VP-9_32_20170223**	
				VP-9_50_20170223	
				VP-9_60_20170223	
				VP-9_72_20170223	

TABLE 3-1 **DRAFT**

Summary of 2017 Soil Vapor Samples from Existing Nested Wells
Former Unisys Facility, Lake Sucess, New York

Tenant	Location	Date	Nested Well	Soil Vapor Sample ID	Duplicate Sample ID
Outside - East of Main Bldg.	Exterior	3/2/17	VP-1	VP-1_5_20170302	-
				VP-1_10_20170302	
				VP-1_20_20170302	
				VP-1_30_20170302	VP-1_30_20170302DUP
Outside - East of Main Bldg.	Exterior	3/2/17	VP-2	VP-2_5_20170302	-
				VP-2_10_20170302	VP-2_10_20170302DUP
				VP-2_20_20170302	-
				VP-2_30_20170302	
Outside - South of Main Bldg.	Exterior	3/7/17	VP-3	VP-3_5_20170307	VP-3_5_20170307DUP
				VP-3_10_20170307	-
				VP-3_20_20170307	
				VP-3_30_20170307	
Outside - South of Main Bldg.	Exterior	3/7/17	VP-3D	VP-3D_40_20170307	-
				VP-3D_51_20170307	
				VP-3D_61_20170307	
				VP-3D_73_20170307	VP-3D_73_20170307DUP
Outside - South of Main Bldg.	Exterior	3/2/17	VP-4	VP-4_5_20170302	-
				VP-4_10_20170302	
				VP-4_20_20170302	
				VP-4_30_20170302	
Outside - North of Main Bldg.	Exterior	3/2/17	VP-106	VP-106_5_20170302	-
				VP-106_11_20170302	
				VP-106_19.5_20170302	
				VP-106_28_20170302	
				VP-106_56_20170302	
				VP-106_72_20170302	VP-106_72_20170302DUP
				VP-106_84_20170302	-
Outside - East of Main Bldg.	Exterior	3/7/17	VP-108	VP-108_5_20170307	-
				VP-108_10_20170307	
				VP-108_20_20170307	
				VP-108_29.5_20170307	
			VP-108D	VP-108D_50.5_20170307	VP-108D_50.5_20170307DUP
				VP-108D_60_20170307	-
				VP-108D_70_20170307	

** Unable to sample due to water in line

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	FPM-20_5_20170221		FPM-20_5_20170221DUP		FPM-20_9.4_20170221		VP-1_10_2017032		VP-1_20_20170302		VP-1_30_20170302		VP-1_30_20170302DUP		VP-1_5_20170302	
LAB ID	10379929009		10379929018		10379929010		10381035002		10381035003		10381035004		10381035022		10381035001	
SAMPLE DATE	20170221		20170221		20170221		20170302		20170302		20170302		20170302		20170302	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate			FPM-20_5_20170221										VP-1_30_20170302			
OV (UG/M3)	MRL	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	2	ND	2	ND	2	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.9
1,1,2,2-TETRACHLOROETHANE	ND	1.3	ND	1.3	ND	1.3	ND	2.3	ND	2.3	ND	2.4	ND	2.4	ND	2.3
1,1,2-TRICHLOROETHANE	ND	1	ND	1	ND	1	ND	0.92	ND	0.92	ND	0.96	ND	0.96	ND	0.92
1,1,2-TRICHLOROTRIFLUOROETHANE	ND	2.9	ND	2.9	ND	2.9	ND	2.7	**0.86**	2.7	**1.3**	2.8	**1.4**	2.8	**0.78**	2.7
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.8	ND	5.8	ND	5.8	ND	5.3	ND	5.3	ND	5.6	ND	5.6	ND	5.3
1,1-DICHLOROETHANE	ND	1.5	ND	1.5	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
1,1-DICHLOROETHENE	ND	1.5	ND	1.5	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
1,2,4-TRICHLOROBENZENE	ND	6.9	ND	6.9	ND	6.9	ND	6.3	ND	6.3	ND	6.6	ND	6.6	ND	6.3
1,2,4-TRIMETHYLBENZENE	ND	1.8	ND	1.8	ND	1.8	**1.3**	1.7	**2.6**	1.7	**1.5**	1.7	**1.3**	1.7	**1.7**	1.7
1,2-DIBROMO-3-CHLOROPROPANE	ND	9	ND	9	ND	9	ND	8.2	ND	8.2	ND	8.6	ND	8.6	ND	8.2
1,2-DIBROMOETHANE	ND	2.9	ND	2.9	ND	2.9	ND	2.6	ND	2.6	ND	2.7	ND	2.7	ND	2.6
1,2-DICHLOROBENZENE	ND	2.2	ND	2.2	ND	2.2	ND	2	ND	2	ND	2.1	ND	2.1	ND	2
1,2-DICHLOROETHANE	ND	0.75	ND	0.75	ND	0.75	ND	0.69	ND	0.69	ND	0.72	ND	0.72	ND	0.69
1,2-DICHLOROPROPANE	ND	1.7	ND	1.7	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6
1,2-DICHLOROTETRAFLUOROETHANE	ND	2.6	ND	2.6	ND	2.6	ND	2.4	ND	2.4	ND	2.5	ND	2.5	ND	2.4
1,3,5-TRIMETHYLBENZENE	ND	1.8	ND	1.8	ND	1.8	ND	1.7	**1.5**	1.7	**1.3**	1.7	**1.3**	1.7	**1.4**	1.7
1,3-BUTADIENE	ND	0.82	ND	0.82	ND	0.82	ND	0.76	ND	0.76	ND	0.79	ND	0.79	ND	0.76
1,3-DICHLOROBENZENE	ND	2.2	ND	2.2	ND	2.2	ND	2	ND	2	ND	2.1	ND	2.1	ND	2
1,4-DICHLOROBENZENE	ND	2.2	ND	2.2	ND	2.2	ND	2	ND	2	ND	2.1	**1.8**	2.1	ND	2
1,4-DIOXANE	ND	6.7	ND	6.7	ND	6.7	ND	6.1	ND	6.1	ND	6.4	ND	6.4	ND	6.1
1-ETHYL-4-METHYL BENZENE	ND	1.8	ND	1.8	ND	1.8	**1.4**	1.7	**1.8**	1.7	**1.8**	1.8	ND	1.8	**1.4**	1.7
2-BUTANONE	**1.3**	5.5	**5.2**	5.5	**1.5**	5.5	ND	5	**8.4**	5	ND	5.2	ND	5.2	**2.6**	5
2-HEXANONE	ND	7.6	ND	7.6	ND	7.6	ND	7	ND	7	ND	7.3	ND	7.3	ND	7
3-CHLOROPROPENE	ND	2.9	ND	2.9	ND	2.9	ND	2.7	ND	2.7	ND	2.8	ND	2.8	ND	2.7
4-METHYL-2-PENTANONE	ND	7.6	ND	7.6	ND	7.6	ND	7	ND	7	ND	7.3	ND	7.3	ND	7
ACETONE	**28.1**	4.4	**30.6**	4.4	**19.2**	4.4	**6.8**	4.1	**82.5**	4.1	**18.4**	4.2	**8.7**	4.2	**52.8**	4.1
BENZENE	**1.6**	0.59	**1.4**	0.59	ND	0.59	ND	0.55	**1.2**	0.55	**0.52**	0.57	ND	0.57	**1.2**	0.55
BROMODICHLOROMETHANE	ND	2.5	ND	2.5	ND	2.5	ND	2.3	ND	2.3	ND	2.4	ND	2.4	ND	2.3
BROMOFORM	ND	3.8	ND	3.8	ND	3.8	ND	8.8	ND	8.8	ND	9.2	ND	9.2	ND	8.8
BROMOMETHANE	ND	1.4	ND	1.4	ND	1.4	ND	1.3	ND	1.3	ND	1.4	ND	1.4	ND	1.3
CARBON DISULFIDE	**1.3**	1.2	ND	1.2	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1
CARBON TETRACHLORIDE	ND	1.2	ND	1.2	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1	**0.72**	1.1
CHLOROBENZENE	ND	1.7	ND	1.7	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6
CHLORODIBROMOMETHANE	ND	3.2	ND	3.2	ND	3.2	ND	2.9	ND	2.9	ND	3	ND	3	ND	2.9
CHLORODIFLUOROMETHANE	ND	1.3	ND	1.3	ND	1.3	**1.2**	1.2	**4.4**	1.2	ND	1.3	ND	1.3	**5.4**	1.2
CHLOROETHANE	ND	0.99	ND	0.99	ND	0.99	ND	0.91	ND	0.91	ND	0.94	ND	0.94	ND	0.91
CHLOROFORM	ND	0.91	ND	0.91	**4.7**	0.91	**0.8**	0.83	**0.51**	0.83	ND	0.87	ND	0.87	ND	0.83
CHLOROMETHANE	**1.1**	0.77	**0.92**	0.77	ND	0.77	ND	0.71	ND	0.71	ND	0.74	ND	0.74	**1.2**	0.71
CIS-1,2-DICHLOROETHENE	ND	1.5	ND	1.5	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
CIS-1,3-DICHLOROPROPENE	ND	1.7	ND	1.7	ND	1.7	ND	1.5	ND	1.5	ND	1.6	ND	1.6	ND	1.5
CYCLOHEXANE	**1.3**	1.3	**0.98**	1.3	ND	1.3	ND	1.2	**0.99**	1.2	ND	1.2	ND	1.2	**0.87**	1.2
DICHLORODIFLUOROMETHANE	**2.7**	1.8	**2.1**	1.8	**2.4**	1.8	ND	4.2	**1.3**	4.2	**1.2**	4.4	ND	4.4	**1.7**	4.2
ETHYLBENZENE	**10.1**	1.6	**8.7**	1.6	ND	1.6	ND	1.5	**0.81**	1.5	ND	1.5	ND	1.5	ND	1.5
HEXACHLOROBUTADIENE	ND	4	ND	4	ND	4	ND	3.6	ND	3.6	ND	3.8	ND	3.8	ND	3.6
HEXANE	**2.5**	1.3	**2.3**	1.3	**0.69**	1.3	ND	1.2	**62.8**	1.2	**17.1**	1.3	ND	1.3	**79.8**	1.2
ISOPROPANOL	**51.8**	4.6	**39.7**	4.6	**2.8**	4.6	ND	4.2	**16.9**	4.2	**2.9**	4.4	**2.6**	4.4	ND	4.2
ISOPROPYLBENZENE	ND	4.6	ND	4.6	ND	4.6	ND	4.2	ND	4.2	ND	4.4	ND	4.4	ND	4.2
M+P-XYLENES	**43.3**	3.2	**38**	3.2	ND	3.2	**1.6**	3	**3.8**	3	**2.3**	3.1	**2**	3.1	**2.3**	3
METHYL ACETATE	ND	2.8	ND	2.8	ND	2.8	ND	2.6	ND	2.6	ND	2.7	ND	2.7	ND	2.6
METHYL CYCLOHEXANE	ND	1.5	ND	1.5	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
METHYL TERT-BUTYL ETHER	ND	6.7	ND	6.7	ND	6.7	ND	6.2	ND	6.2	ND	6.4	ND	6.4	ND	6.2
METHYLENE CHLORIDE	**13.5**	6.5	**8.6**	6.5	**5.6**	6.5	ND	5.9	**114**	7.9	**170**	6.2	**3.2**	6.2	**421**	5.9
O-XYLENE	**11**	1.6	**9.7**	1.6	ND	1.6	ND	1.5	**1.2**	1.5	ND	1.5	ND	1.5	ND	1.5
PENTAFLUOROETHYL CHLORIDE	ND	5.9	ND	5.9	ND	5.9	ND	5.4	ND	5.4	ND	5.6	ND	5.6	ND	5.4
STYRENE	**1.4**	1.6	**0.84**	1.6	ND	1.6	ND	1.5	**1.3**	1.5	**1.2**	1.5	**1.1**	1.5	**1.2**	1.5
TETRACHLOROETHENE	ND	1.3	ND	1.3	**3**	1.3	ND	1.2	**4**	1.2	**22.6**	1.2	**25.4**	1.2	ND	1.2
TOLUENE	**4.2**	1.4	**3.6**	1.4	**6.7**	1.4	**0.88**	1.3	**8.4**	1.3	**14.2**	1.3	**13.8**	1.3	**4.4**	1.3
TRANS-1,2-DICHLOROETHENE	ND	1.5	ND	1.5	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
TRANS-1,3-DICHLOROPROPENE	ND	1.7	ND	1.7	ND	1.7	ND	1.5	ND	1.5	ND	1.6	ND	1.6	ND	1.5
TRICHLOROETHENE	ND	1	**2.7**	1	**1.1**	1	**4**	0.92	**26**	0.92	**176**	0.96	**193**	0.96	**3.9**	0.92
TRICHLOROFLUOROMETHANE	**1.5**	2.1	**1.2**	2.1	**1.3**	2.1	**1.2**	1.9	**2.8**	1.9	**2.4**	2	**2.5**	2	**2.1**	1.9
VINYL CHLORIDE	ND	0.48	ND	0.48	ND	0.48	ND	0.44	ND	0.44	ND	0.46	ND	0.46	ND	0.44

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-102_19.5_20170226		VP-102_51.5_20170226		VP-102_57.5_20170226		VP-102_61.5_20170226		VP-102_73.5_20170226		VP-102_73.5_20170226DUP		VP-102_8.5_20170226		VP-102_4.5_20170306	
LAB ID	10380372002		10380372003		10380372004		10380372005		10380372006		10380372021		10380372001		10381335001	
SAMPLE DATE	20170226		20170226		20170226		20170226		20170226		20170226		20170226		20170306	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate											VP-102_73.5_20170226					
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	2	**1.4**	1.9	**1.3**	2	**1.3**	2	ND	1.9	ND	2	ND	1.9	ND	1.9
1,1,2,2-TETRACHLOROETHANE	ND	1.3	ND	1.2	ND	1.3	ND	1.3	ND	1.2	ND	1.3	ND	1.2	ND	1.2
1,1,2-TRICHLOROETHANE	ND	1	ND	0.96	ND	1	ND	1	ND	0.96	ND	1	ND	0.96	ND	0.96
1,1,2-TRICHLOROTRIFLUOROETHANE	**0.99**	2.9	**11.4**	2.8	**12.2**	2.9	**12.2**	2.9	ND	2.8	ND	2.9	ND	2.8	**1.3**	2.8
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.8	ND	5.6	ND	5.8	ND	5.8	ND	5.6	ND	5.8	ND	5.6	ND	5.6
1,1-DICHLOROETHANE	ND	1.5	ND	1.4	ND	1.5	ND	1.5	ND	1.4	ND	1.5	ND	1.4	ND	1.4
1,1-DICHLOROETHENE	ND	1.5	ND	1.4	ND	1.5	ND	1.5	ND	1.4	ND	1.5	ND	1.4	ND	1.4
1,2,4-TRICHLOROBENZENE	ND	6.9	ND	6.6	ND	6.9	ND	6.9	ND	6.6	ND	6.9	ND	6.6	ND	6.6
1,2,4-TRIMETHYLBENZENE	**0.83**	1.8	**0.76**	1.7	**0.7**	1.8	**1.3**	1.8	**0.95**	1.7	**1.6**	1.8	ND	1.7	**0.92**	1.7
1,2-DIBROMO-3-CHLOROPROPANE	ND	9	ND	8.6	ND	9	ND	9	ND	8.6	ND	9	ND	8.6	ND	8.6
1,2-DIBROMOETHANE	ND	2.9	ND	2.7	ND	2.9	ND	2.9	ND	2.7	ND	2.9	ND	2.7	ND	2.7
1,2-DICHLOROBENZENE	ND	2.2	ND	2.1	ND	2.2	ND	2.2	ND	2.1	ND	2.2	ND	2.1	ND	2.1
1,2-DICHLOROETHANE	ND	0.75	ND	0.72	ND	0.75	ND	0.75	ND	0.72	ND	0.75	ND	0.72	ND	0.72
1,2-DICHLOROPROPANE	ND	1.7	ND	1.6	ND	1.7	ND	1.7	ND	1.6	ND	1.7	ND	1.6	ND	1.6
1,2-DICHLOROTETRAFLUOROETHANE	ND	2.6	ND	2.5	ND	2.6	ND	2.6	ND	2.5	ND	2.6	ND	2.5	ND	2.5
1,3,5-TRIMETHYLBENZENE	ND	1.8	ND	1.7	ND	1.8	ND	1.8	**0.41**	1.7	**0.77**	1.8	ND	1.7	ND	1.7
1,3-BUTADIENE	ND	0.82	ND	0.79	ND	0.82	ND	0.82	ND	0.79	ND	0.82	ND	0.79	ND	0.79
1,3-DICHLOROBENZENE	ND	2.2	ND	2.1	ND	2.2	ND	2.2	ND	2.1	ND	2.2	ND	2.1	ND	2.1
1,4-DICHLOROBENZENE	ND	2.2	ND	2.1	ND	2.2	ND	2.2	ND	2.1	ND	2.2	ND	2.1	ND	2.1
1,4-DIOXANE	ND	6.7	ND	6.4	ND	6.7	ND	6.7	ND	6.4	ND	6.7	ND	6.4	ND	6.4
1-ETHYL-4-METHYL BENZENE	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8
2-BUTANONE	**0.99**	5.5	**2**	5.2	**1.2**	5.5	**11.4**	5.5	**2.5**	5.2	**1.6**	5.5	**2.3**	5.2	**10.7**	5.2
2-HEXANONE	ND	7.6	ND	7.3	ND	7.6	**1.3**	7.6	**0.93**	7.3	ND	7.6	ND	7.3	ND	7.3
3-CHLOROPROPENE	ND	2.9	ND	2.8	ND	2.9	ND	2.9	ND	2.8	ND	2.9	ND	2.8	ND	2.8
4-METHYL-2-PENTANONE	ND	7.6	ND	7.3	ND	7.6	**2.2**	7.6	ND	7.3	ND	7.6	ND	7.3	ND	7.3
ACETONE	**4.2**	11	**153**	10.6	**15.1**	11	**79.4**	11	**22**	10.6	**17.1**	11	**216**	10.6	**422**	4.2
BENZENE	ND	0.59	**0.94**	0.57	**0.48**	0.59	**0.58**	0.59	**0.5**	0.57	**0.53**	0.59	**3.4**	0.57	**1**	0.57
BROMODICHLOROMETHANE	ND	2.5	**0.89**	2.4	**0.89**	2.5	ND	2.5	ND	2.4	ND	2.5	ND	2.4	ND	2.4
BROMOFORM	ND	9.6	ND	9.2	ND	9.6	ND	9.6	ND	9.2	ND	9.6	ND	9.2	ND	3.7
BROMOMETHANE	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
CARBON DISULFIDE	ND	1.2	ND	1.1	ND	1.2	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	1.1
CARBON TETRACHLORIDE	**0.54**	1.2	**0.71**	1.1	**0.71**	1.2	**0.69**	1.2	ND	1.1	ND	1.2	ND	1.1	**0.57**	1.1
CHLOROBENZENE	ND	1.7	ND	1.6	ND	1.7	ND	1.7	ND	1.6	ND	1.7	ND	1.6	ND	1.6
CHLORODIBROMOMETHANE	ND	3.2	ND	3	ND	3.2	ND	3.2	ND	3	ND	3.2	ND	3	ND	3
CHLORODIFLUOROMETHANE	**32.2**	1.3	ND	1.3	ND	1.3	ND	1.3	**21.9**	1.3	**23**	1.3	**15.5**	1.3	ND	1.3
CHLOROETHANE	ND	0.99	ND	0.94	ND	0.99	ND	0.99	ND	0.94	ND	0.99	ND	0.94	ND	0.94
CHLOROFORM	ND	0.91	**3.9**	0.87	**3.8**	0.91	**3.6**	0.91	ND	0.87	ND	0.91	ND	0.87	**0.59**	0.87
CHLOROMETHANE	ND	0.77	**0.71**	0.74	ND	0.77	ND	0.77	**0.94**	0.74	**1**	0.77	**1**	0.74	**1.1**	0.74
CIS-1,2-DICHLOROETHENE	ND	1.5	**7.1**	1.4	**8.5**	1.5	**6.1**	1.5	ND	1.4	ND	1.5	ND	1.4	**8.2**	1.4
CIS-1,3-DICHLOROPROPENE	ND	1.7	ND	1.6	ND	1.7	ND	1.7	ND	1.6	ND	1.7	ND	1.6	ND	1.6
CYCLOHEXANE	ND	1.3	**0.89**	1.2	ND	1.3	ND	1.3	ND	1.2	ND	1.3	**1.2**	1.2	**5.6**	1.2
DICHLORODIFLUOROMETHANE	**2.8**	1.8	**3.1**	1.8	ND	1.8	**2.9**	1.8	**3**	1.8	**3**	1.8	**3.5**	1.8	**2.9**	1.8
ETHYLBENZENE	ND	1.6	ND	1.5	ND	1.6	**0.84**	1.6	**2**	1.5	**2.4**	1.6	ND	1.5	**2.6**	1.5
HEXACHLOROBUTADIENE	ND	4	ND	3.8	ND	4	ND	4	ND	3.8	ND	4	ND	3.8	ND	3.8
HEXANE	**1.1**	1.3	**146**	1.3	ND	1.3	**2.6**	1.3	**1.1**	1.3	**2**	1.3	**138**	1.3	**6.5**	1.3
ISOPROPANOL	**11.6**	4.6	**3.2**	4.4	ND	4.6	**64.2**	4.6	**29.5**	4.4	**30.4**	4.6	**10.1**	4.4	**69**	4.4
ISOPROPYLBENZENE	**0.26**	4.6	**0.24**	4.4	ND	4.6	**0.32**	4.6	**0.26**	4.4	ND	4.6	ND	4.4	ND	4.4
M+P-XYLENES	**2**	3.2	ND	3.1	ND	3.2	**2.3**	3.2	**6.5**	3.1	**7.6**	3.2	ND	3.1	**10.1**	3.1
METHYL ACETATE	ND	2.8	ND	2.7	ND	2.8	ND	2.8	ND	2.7	ND	2.8	ND	2.7	ND	2.7
METHYL CYCLOHEXANE	ND	1.5	ND	1.4	ND	1.5	ND	1.5	ND	1.4	ND	1.5	ND	1.4	ND	1.4
METHYL TERT-BUTYL ETHER	ND	6.7	ND	6.4	ND	6.7	ND	6.7	ND	6.4	ND	6.7	ND	6.4	ND	6.4
METHYLENE CHLORIDE	**7.3**	6.5	**687**	6.2	ND	6.5	**5.9**	6.5	**4.4**	6.2	**9.5**	6.5	**861**	6.2	**9.5**	6.2
O-XYLENE	**0.87**	1.6	ND	1.5	ND	1.6	**1.2**	1.6	**2.1**	1.5	**2.3**	1.6	ND	1.5	**2.8**	1.5
PENTAFLUOROETHYL CHLORIDE	**10.4**	5.9	ND	5.6	ND	5.9	ND	5.9	ND	5.6	ND	5.9	ND	5.6	ND	5.6
STYRENE	ND	1.6	ND	1.5	ND	1.6	**0.72**	1.6	ND	1.5	ND	1.6	ND	1.5	ND	1.5
TETRACHLOROETHENE	**3.1**	1.3	**332**	1.2	**363**	1.3	**368**	1.3	**0.56**	1.2	**1.2**	1.3	ND	1.2	**88.3**	1.2
TOLUENE	**8.4**	1.4	**2.5**	1.3	**7**	1.4	**42.9**	1.4	**1.7**	1.3	**2.7**	1.4	**3.3**	1.3	**3.1**	1.3
TRANS-1,2-DICHLOROETHENE	ND	1.5	ND	1.4	ND	1.5	ND	1.5	ND	1.4	ND	1.5	ND	1.4	ND	1.4
TRANS-1,3-DICHLOROPROPENE	ND	1.7	ND	1.6	ND	1.7	ND	1.7	ND	1.6	ND	1.7	ND	1.6	ND	4
TRICHLOROETHENE	**1.9**	1	**427**	12.9	**927**	22.5	**467**	10.1	ND	0.96	**0.82**	1	ND	0.96	**113**	0.96
TRICHLOROFLUOROMETHANE	**1.5**	2.1	**3**	2	**3.4**	2.1	**3.1**	2.1	**1.4**	2	**1.6**	2.1	**2**	2	**1.5**	2
VINYL CHLORIDE	ND	0.48	ND	0.46	ND	0.48	ND	0.48	ND	0.46	ND	0.48	ND	0.46	ND	0.46

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-103_10_20170226		VP-103_20_20170226		VP-103_30_20170226		VP-103_40_20170226		VP-103_5_20170226		VP-103_50_20170226		VP-103_61.5_20170226		VP-103_74.5_20170226	
LAB ID	10380372008		10380372009		10380372010		10380372011		10380372007		10380372012		10380372013		10380372014	
SAMPLE DATE	20170226		20170226		20170226		20170226		20170226		20170226		20170226		20170226	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate																
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	1.9	ND	2	ND	2.7	**1.1**	1.9	ND	2	**1.1**	2	ND	2.4	ND	2.6
1,1,2,2-TETRACHLOROETHANE	ND	1.2	ND	1.3	ND	1.7	ND	1.2	ND	1.3	ND	1.3	**1.5**	1.5	ND	1.6
1,1,2-TRICHLOROETHANE	ND	0.96	ND	1	ND	1.3	ND	0.96	ND	1	ND	1	ND	1.2	ND	1.3
1,1,2-TRICHLOROTRIFLUOROETHANE	**0.72**	2.8	ND	2.9	**8.1**	3.9	**10.8**	2.8	ND	2.9	**8.2**	2.9	**5.6**	3.4	**3**	3.8
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.6	ND	5.8	ND	7.8	ND	5.6	ND	5.8	ND	5.8	ND	6.7	ND	7.5
1,1-DICHLOROETHANE	**6.4**	1.4	ND	1.5	ND	2	ND	1.4	ND	1.5	ND	1.5	ND	1.7	ND	1.9
1,1-DICHLOROETHENE	ND	1.4	ND	1.5	ND	2	ND	1.4	ND	1.5	ND	1.5	ND	1.7	ND	1.9
1,2,4-TRICHLOROBENZENE	ND	6.6	ND	6.9	ND	9.2	ND	6.6	ND	6.9	ND	6.9	ND	8	ND	8.9
1,2,4-TRIMETHYLBENZENE	**0.79**	1.7	**2.1**	1.8	**4.3**	2.4	**1.7**	1.7	**1.7**	1.8	**1.4**	1.8	**4.4**	2.1	**4.7**	2.3
1,2-DIBROMO-3-CHLOROPROPANE	ND	8.6	ND	9	ND	12	ND	8.6	ND	9	ND	9	ND	10.4	ND	11.5
1,2-DIBROMOETHANE	ND	2.7	ND	2.9	ND	3.8	ND	2.7	ND	2.9	ND	2.9	ND	3.3	ND	3.7
1,2-DICHLOROBENZENE	ND	2.1	ND	2.2	ND	3	ND	2.1	ND	2.2	ND	2.2	ND	2.6	ND	2.9
1,2-DICHLOROETHANE	ND	0.72	ND	0.75	ND	1	ND	0.72	ND	0.75	ND	0.75	ND	0.87	ND	0.96
1,2-DICHLOROPROPANE	ND	1.6	ND	1.7	ND	2.3	ND	1.6	ND	1.7	ND	1.7	ND	2	ND	2.2
1,2-DICHLOROTETRAFLUOROETHANE	**1.4**	2.5	ND	2.6	ND	3.5	ND	2.5	ND	2.6	ND	2.6	ND	3	ND	3.3
1,3,5-TRIMETHYLBENZENE	ND	1.7	**0.93**	1.8	**1.4**	2.4	ND	1.7	**0.69**	1.8	ND	1.8	**2.1**	2.1	**1.7**	2.3
1,3-BUTADIENE	ND	0.79	ND	0.82	ND	1.1	ND	0.79	ND	0.82	ND	0.82	ND	0.95	ND	1.1
1,3-DICHLOROBENZENE	ND	2.1	ND	2.2	ND	3	ND	2.1	ND	2.2	ND	2.2	ND	2.6	ND	2.9
1,4-DICHLOROBENZENE	ND	2.1	ND	2.2	ND	3	ND	2.1	ND	2.2	ND	2.2	ND	2.6	ND	2.9
1,4-DIOXANE	ND	6.4	ND	6.7	ND	9	ND	6.4	ND	6.7	ND	6.7	ND	7.8	ND	8.6
1-ETHYL-4-METHYL BENZENE	ND	1.8	ND	1.8	**2**	2.4	ND	1.8	**0.61**	1.8	ND	1.8	**1.9**	2.1	**1.4**	2.4
2-BUTANONE	**4.2**	5.2	**1.1**	5.5	**12.1**	7.4	**2.2**	5.2	**2.7**	5.5	**2.7**	5.5	**5.8**	6.4	**2.6**	7
2-HEXANONE	ND	7.3	ND	7.6	**3.4**	10.2	ND	7.3	ND	7.6	**1.3**	7.6	**1.5**	8.8	ND	9.8
3-CHLOROPROPENE	ND	2.8	ND	2.9	ND	3.9	ND	2.8	ND	2.9	ND	2.9	ND	3.4	ND	3.7
4-METHYL-2-PENTANONE	**0.88**	7.3	ND	7.6	**1.8**	10.2	ND	7.3	ND	7.6	ND	7.6	ND	8.8	ND	9.8
ACETONE	**11.9**	10.6	**16.3**	11	**168**	14.8	**12.1**	10.6	**182**	11	**21.8**	11	**92.1**	12.8	**96.6**	14.2
BENZENE	**0.29**	0.57	**0.49**	0.59	**3.4**	0.8	ND	0.57	**1.9**	0.59	ND	0.59	**2.8**	0.69	**4**	0.76
BROMODICHLOROMETHANE	ND	2.4	ND	2.5	ND	3.3	**0.96**	2.4	ND	2.5	**1**	2.5	ND	2.9	ND	3.2
BROMOFORM	ND	9.2	ND	9.6	ND	12.9	ND	9.2	ND	9.6	ND	9.6	**6.1**	11.1	ND	12.3
BROMOMETHANE	ND	1.4	ND	1.4	ND	1.9	ND	1.4	ND	1.4	ND	1.4	ND	1.7	ND	1.9
CARBON DISULFIDE	ND	1.1	ND	1.2	**1.4**	1.5	**0.79**	1.1	ND	1.2	ND	1.2	ND	1.3	ND	1.5
CARBON TETRACHLORIDE	**0.57**	1.1	ND	1.2	**6.6**	1.6	**9.5**	1.1	ND	1.2	**3.7**	1.2	**3.1**	1.4	**2**	1.5
CHLOROBENZENE	ND	1.6	ND	1.7	ND	2.3	ND	1.6	ND	1.7	ND	1.7	ND	2	ND	2.2
CHLORODIBROMOMETHANE	ND	3	ND	3.2	ND	4.2	ND	3	ND	3.2	ND	3.2	ND	3.7	ND	4.1
CHLORODIFLUOROMETHANE	**3.1**	1.3	**1.7**	1.3	**20.1**	1.8	**20.8**	1.3	**12.2**	1.3	ND	1.3	ND	1.5	ND	1.7
CHLOROETHANE	ND	0.94	ND	0.99	ND	1.3	ND	0.94	ND	0.99	ND	0.99	ND	1.1	ND	1.3
CHLOROFORM	**2.5**	0.87	ND	0.91	**3.5**	1.2	**6.8**	0.87	ND	0.91	**5.1**	0.91	**3.2**	1.1	ND	1.2
CHLOROMETHANE	ND	0.74	**1**	0.77	ND	1	ND	0.74	**1.9**	0.77	ND	0.77	ND	0.89	**3.2**	0.99
CIS-1,2-DICHLOROETHENE	ND	1.4	ND	1.5	ND	2	**3.6**	1.4	ND	1.5	**3.7**	1.5	**2.2**	1.7	ND	1.9
CIS-1,3-DICHLOROPROPENE	ND	1.6	ND	1.7	ND	2.3	ND	1.6	ND	1.7	ND	1.7	ND	2	ND	2.2
CYCLOHEXANE	ND	1.2	ND	1.3	**2.1**	1.7	ND	1.2	**1.3**	1.3	ND	1.3	**1.8**	1.5	**3**	1.6
DICHLORODIFLUOROMETHANE	**3**	1.8	**2.9**	1.8	**6.2**	2.5	**3.2**	1.8	**4.8**	1.8	**2.9**	1.8	**5.6**	2.1	**7.6**	2.4
ETHYLBENZENE	ND	1.5	ND	1.6	**2**	2.2	ND	1.5	**1**	1.6	ND	1.6	**2.6**	1.9	**2.9**	2.1
HEXACHLOROBUTADIENE	ND	3.8	ND	4	ND	5.3	ND	3.8	ND	4	ND	4	**3.3**	4.6	ND	5.1
HEXANE	**2.1**	1.3	**1.4**	1.3	**123**	1.8	**1.2**	1.3	**20**	1.3	**0.88**	1.3	**82.2**	1.5	**77.1**	1.7
ISOPROPANOL	**5.4**	4.4	**29.4**	4.6	**20.5**	6.1	**9.3**	4.4	**15.3**	4.6	**2.3**	4.6	ND	5.3	**12.9**	5.9
ISOPROPYLBENZENE	ND	4.4	ND	4.6	ND	6.1	ND	4.4	**0.38**	4.6	ND	4.6	**1.2**	5.3	ND	5.9
M+P-XYLENES	ND	3.1	ND	3.2	**5.9**	4.3	ND	3.1	**2.6**	3.2	ND	3.2	**7.4**	3.8	**10.2**	4.2
METHYL ACETATE	ND	2.7	ND	2.8	ND	3.8	ND	2.7	ND	2.8	ND	2.8	ND	3.3	ND	3.6
METHYL CYCLOHEXANE	ND	1.4	ND	1.5	ND	2	ND	1.4	ND	1.5	ND	1.5	ND	1.7	ND	1.9
METHYL TERT-BUTYL ETHER	ND	6.4	ND	6.7	ND	9	ND	6.4	ND	6.7	ND	6.7	**0.86**	7.8	ND	8.6
METHYLENE CHLORIDE	**11.8**	6.2	**3**	6.5	**295**	232	**4.5**	6.2	**252**	6.5	**2**	6.5	**1640**	20	**268**	222
O-XYLENE	ND	1.5	ND	1.6	**2.7**	2.2	**0.89**	1.5	**1.4**	1.6	ND	1.6	**3.3**	1.9	**4.1**	2.1
PENTAFLUOROETHYL CHLORIDE	ND	5.6	ND	5.9	ND	7.9	ND	5.6	ND	5.9	ND	5.9	ND	6.8	ND	7.5
STYRENE	ND	1.5	ND	1.6	ND	2.1	ND	1.5	**0.97**	1.6	ND	1.6	ND	1.8	**1.1**	2
TETRACHLOROETHENE	**1.8**	1.2	ND	1.3	**68.2**	1.7	**207**	1.2	ND	1.3	**229**	1.3	**126**	1.5	**44.1**	1.6
TOLUENE	**2.8**	1.3	**1**	1.4	**12.8**	1.9	**5.3**	1.3	**9.3**	1.4	**1.3**	1.4	**18.4**	1.6	**37**	1.8
TRANS-1,2-DICHLOROETHENE	ND	1.4	ND	1.5	ND	2	ND	1.4	ND	1.5	ND	1.5	ND	1.7	ND	1.9
TRANS-1,3-DICHLOROPROPENE	ND	1.6	ND	1.7	ND	2.3	ND	1.6	ND	1.7	ND	1.7	**1.1**	2	ND	2.2
TRICHLOROETHENE	**3.4**	0.96	ND	1	**135**	1.3	**334**	4.8	**1**	1	**352**	5	**194**	1.2	**66.4**	1.3
TRICHLOROFLUOROMETHANE	**1.7**	2	**1.5**	2.1	**4.8**	2.8	**4.3**	2	**3.7**	2.1	**3.6**	2.1	**4.8**	2.4	**4.7**	2.7
VINYL CHLORIDE	ND	0.46	ND	0.48	ND	0.64	ND	0.46	ND	0.48	ND	0.48	ND	0.55	ND	0.61

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-104_10_20170221		VP-104_19_20170221		VP-104_30_20170221		VP-104_40_20170221		VP-104_5_20170221		VP-104_50_20170221		VP-104_62_20170221		VP-104_73_20170221	
LAB ID	10379929002		10379929003		10379929004		10379929005		10379929001		10379929006		10379929007		10379929008	
SAMPLE DATE	20170221		20170221		20170221		20170221		20170221		20170221		20170221		20170221	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate																
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	2	ND	1.9	ND	1.9	ND	1.9	ND	1.9	**1.4**	1.9	ND	1.9	**1.7**	1.9
1,1,2,2-TETRACHLOROETHANE	ND	1.3	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1,2-TRICHLOROETHANE	ND	1	ND	0.96	ND	0.96	ND	0.96	ND	0.96	ND	0.96	ND	0.96	ND	0.96
1,1,2-TRICHLOROTRIFLUOROETHANE	ND	2.9	**21.7**	2.8	**150**	2.8	**95.1**	2.8	**0.71**	2.8	**58.2**	2.8	**28.1**	2.8	**64.3**	2.8
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.8	ND	5.6	ND	5.6	ND	5.6	ND	5.6	ND	5.6	ND	5.6	ND	5.6
1,1-DICHLOROETHANE	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
1,1-DICHLOROETHENE	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
1,2,4-TRICHLOROBENZENE	ND	6.9	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6	ND	6.6
1,2,4-TRIMETHYLBENZENE	ND	1.8	ND	1.7	ND	1.7	ND	1.7	**1.2**	1.7	ND	1.7	ND	1.7	ND	1.7
1,2-DIBROMO-3-CHLOROPROPANE	ND	9	ND	8.6	ND	8.6	ND	8.6	ND	8.6	ND	8.6	ND	8.6	ND	8.6
1,2-DIBROMOETHANE	ND	2.9	ND	2.7	ND	2.7	ND	2.7	ND	2.7	ND	2.7	ND	2.7	ND	2.7
1,2-DICHLOROBENZENE	ND	2.2	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2.1
1,2-DICHLOROETHANE	ND	0.75	ND	0.72	ND	0.72	ND	0.72	ND	0.72	ND	0.72	ND	0.72	ND	0.72
1,2-DICHLOROPROPANE	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6
1,2-DICHLOROTETRAFLUOROETHANE	ND	2.6	ND	2.5	ND	2.5	ND	2.5	ND	2.5	ND	2.5	ND	2.5	ND	2.5
1,3,5-TRIMETHYLBENZENE	ND	1.8	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.7
1,3-BUTADIENE	ND	0.82	ND	0.79	ND	0.79	ND	0.79	ND	0.79	ND	0.79	ND	0.79	ND	0.79
1,3-DICHLOROBENZENE	ND	2.2	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2.1
1,4-DICHLOROBENZENE	ND	2.2	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2.1
1,4-DIOXANE	ND	6.7	ND	6.4	ND	6.4	ND	6.4	ND	6.4	ND	6.4	ND	6.4	ND	6.4
1-ETHYL-4-METHYL BENZENE	ND	1.8	ND	1.8	ND	1.8	ND	1.8	**1.1**	1.8	ND	1.8	ND	1.8	ND	1.8
2-BUTANONE	**1.7**	5.5	**1.8**	5.2	**2.5**	5.2	**2.3**	5.2	**3**	5.2	**1.8**	5.2	**2.6**	5.2	**2**	5.2
2-HEXANONE	ND	7.6	ND	7.3	ND	7.3	ND	7.3	ND	7.3	ND	7.3	ND	7.3	ND	7.3
3-CHLOROPROPENE	ND	2.9	ND	2.8	ND	2.8	ND	2.8	ND	2.8	ND	2.8	ND	2.8	ND	2.8
4-METHYL-2-PENTANONE	ND	7.6	ND	7.3	ND	7.3	ND	7.3	ND	7.3	ND	7.3	ND	7.3	**1.9**	7.3
ACETONE	**6**	4.4	**7.1**	4.2	**10**	4.2	**8.8**	4.2	**16.1**	4.2	**9.2**	4.2	**18.7**	4.2	**11**	4.2
BENZENE	ND	0.59	ND	0.57	ND	0.57	ND	0.57	**0.63**	0.57	**0.47**	0.57	**0.45**	0.57	**0.3**	0.57
BROMODICHLOROMETHANE	ND	2.5	ND	2.4	ND	2.4	ND	2.4	ND	2.4	ND	2.4	ND	2.4	ND	2.4
BROMOFORM	ND	3.8	ND	3.7	ND	3.7	ND	3.7	ND	3.7	ND	3.7	ND	3.7	ND	3.7
BROMOMETHANE	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
CARBON DISULFIDE	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	**0.68**	1.1
CARBON TETRACHLORIDE	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1	**1**	1.1	**0.69**	1.1	**0.95**	1.1
CHLOROBENZENE	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6
CHLORODIBROMOMETHANE	ND	3.2	ND	3	ND	3	ND	3	ND	3	ND	3	ND	3	ND	3
CHLORODIFLUOROMETHANE	ND	1.3	ND	1.3	ND	1.3	ND	1.3	ND	1.3	**156**	1.3	**88.4**	1.3	**189**	1.3
CHLOROETHANE	ND	0.99	ND	0.94	ND	0.94	ND	0.94	ND	0.94	ND	0.94	ND	0.94	ND	0.94
CHLOROFORM	ND	0.91	**2.4**	0.87	**4.8**	0.87	**6.2**	0.87	ND	0.87	**44.7**	0.87	**20.7**	0.87	**57.1**	0.87
CHLOROMETHANE	ND	0.77	ND	0.74	ND	0.74	ND	0.74	**0.95**	0.74	ND	0.74	**0.75**	0.74	ND	0.74
CIS-1,2-DICHLOROETHENE	ND	1.5	**8.8**	1.4	**18**	1.4	**29.2**	1.4	ND	1.4	**143**	1.4	**55**	1.4	**93.1**	1.4
CIS-1,3-DICHLOROPROPENE	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6
CYCLOHEXANE	ND	1.3	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2
DICHLORODIFLUOROMETHANE	**2**	1.8	**2.4**	1.8	**2.6**	1.8	**2.5**	1.8	**2.2**	1.8	**2.3**	1.8	**2.3**	1.8	**2.2**	1.8
ETHYLBENZENE	ND	1.6	ND	1.5	ND	1.5	ND	1.5	**1**	1.5	ND	1.5	ND	1.5	ND	1.5
HEXACHLOROBUTADIENE	ND	4	ND	3.8	ND	3.8	ND	3.8	ND	3.8	ND	3.8	ND	3.8	ND	3.8
HEXANE	**1**	1.3	ND	1.3	ND	1.3	ND	1.3	**1.4**	1.3	**1.1**	1.3	**0.8**	1.3	ND	1.3
ISOPROPANOL	**2.5**	4.6	**1.7**	4.4	**2.5**	4.4	**1.1**	4.4	**5.2**	4.4	**3.2**	4.4	**3.2**	4.4	**0.84**	4.4
ISOPROPYLBENZENE	ND	4.6	ND	4.4	ND	4.4	ND	4.4	ND	4.4	ND	4.4	ND	4.4	ND	4.4
M+P-XYLENES	ND	3.2	ND	3.1	ND	3.1	ND	3.1	**4.2**	3.1	ND	3.1	**1.7**	3.1	ND	3.1
METHYL ACETATE	ND	2.8	ND	2.7	ND	2.7	ND	2.7	ND	2.7	ND	2.7	ND	2.7	ND	2.7
METHYL CYCLOHEXANE	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4
METHYL TERT-BUTYL ETHER	ND	6.7	ND	6.4	ND	6.4	ND	6.4	ND	6.4	ND	6.4	ND	6.4	ND	6.4
METHYLENE CHLORIDE	**38.3**	6.5	**22.6**	6.2	**20.5**	6.2	**19.1**	6.2	**32**	6.2	**5.6**	6.2	**16.9**	6.2	**2**	6.2
O-XYLENE	ND	1.6	ND	1.5	ND	1.5	ND	1.5	**1.1**	1.5	ND	1.5	ND	1.5	ND	1.5
PENTAFLUOROETHYL CHLORIDE	ND	5.9	ND	5.6	ND	5.6	ND	5.6	ND	5.6	ND	5.6	ND	5.6	ND	5.6
STYRENE	ND	1.6	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.5	**0.77**	1.5	ND	1.5
TETRACHLOROETHENE	**1.9**	1.3	**36.6**	1.2	**92.3**	1.2	**118**	1.2	ND	1.2	**638**	48.3	**212**	1.2	**611**	48.3
TOLUENE	**4.4**	1.4	ND	1.3	**2**	1.3	**1**	1.3	**2.3**	1.3	**29.3**	1.3	**1.2**	1.3	**1.5**	1.3
TRANS-1,2-DICHLOROETHENE	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	**3.3**	1.4	**0.87**	1.4	**1.4**	1.4
TRANS-1,3-DICHLOROPROPENE	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6
TRICHLOROETHENE	ND	1	**56**	0.96	**139**	0.96	**194**	0.96	ND	0.96	**1260**	19.2	**456**	9.6	**1170**	19.2
TRICHLOROFLUOROMETHANE	**1.1**	2.1	**2.3**	2	**6.7**	2	**5.6**	2	**1.3**	2	**15.2**	2	**7.7**	2	**17.4**	2
VINYL CHLORIDE	ND	0.48	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46	ND	0.46

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-105_10_20170223		VP-105_20_20170223		VP-105_5_20170223		VP-105_50_20170223		VP-105_60_20170223		VP-105_72_20170223		VP-106_11_20170302		VP-106_19.5_20170302	
LAB ID	10380193014		10380193015		10380193013		10380193016		10380193017		10380193018		10381035014		10381035015	
SAMPLE DATE	20170223		20170223		20170223		20170223		20170223		20170223		20170302		20170302	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate																
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	1.9	ND	2	ND	2.4	ND	20.3	ND	19.4	ND	19.4	ND	1.9	ND	1.8
1,1,2,2-TETRACHLOROETHANE	ND	1.2	ND	1.3	ND	1.5	ND	12.8	ND	12.2	ND	12.2	ND	2.3	ND	2.2
1,1,2-TRICHLOROETHANE	ND	0.96	ND	1	ND	1.2	ND	10.1	ND	9.6	ND	9.6	ND	0.92	ND	0.89
1,1,2-TRICHLOROTRIFLUOROETHANE	ND	2.8	**3.2**	2.9	**1.5**	3.4	**398**	29.3	**308**	28	**292**	28	ND	2.7	**0.84**	2.6
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.6	ND	5.8	ND	6.7	ND	58.2	ND	55.6	ND	55.6	ND	5.3	ND	5.1
1,1-DICHLOROETHANE	ND	1.4	ND	1.5	ND	1.7	ND	15	ND	14.4	ND	14.4	ND	1.4	ND	1.3
1,1-DICHLOROETHENE	ND	1.4	ND	1.5	ND	1.7	**9**	14.8	ND	14.2	ND	14.2	ND	1.4	ND	1.3
1,2,4-TRICHLOROBENZENE	ND	6.6	ND	6.9	ND	8	ND	69	ND	66	ND	66	ND	6.3	ND	6.1
1,2,4-TRIMETHYLBENZENE	**1.1**	1.7	**1.5**	1.8	**3.6**	2.1	ND	18.3	ND	17.5	ND	17.5	**1.2**	1.7	**1.2**	1.6
1,2-DIBROMO-3-CHLOROPROPANE	ND	8.6	ND	9	ND	10.4	ND	89.9	ND	85.9	ND	85.9	ND	8.2	ND	7.9
1,2-DIBROMOETHANE	ND	2.7	ND	2.9	ND	3.3	ND	28.5	ND	27.3	ND	27.3	ND	2.6	ND	2.5
1,2-DICHLOROBENZENE	ND	2.1	ND	2.2	ND	2.6	ND	22.3	ND	21.4	ND	21.4	ND	2	ND	2
1,2-DICHLOROETHANE	ND	0.72	ND	0.75	ND	0.87	ND	7.5	ND	7.2	ND	7.2	ND	0.69	ND	0.66
1,2-DICHLOROPROPANE	ND	1.6	ND	1.7	ND	2	ND	17.2	ND	16.4	ND	16.4	ND	1.6	ND	1.5
1,2-DICHLOROTETRAFLUOROETHANE	ND	2.5	ND	2.6	ND	3	ND	26	ND	24.8	ND	24.8	ND	2.4	ND	2.3
1,3,5-TRIMETHYLBENZENE	ND	1.7	ND	1.8	**1.1**	2.1	ND	18.3	ND	17.5	ND	17.5	ND	1.7	ND	1.6
1,3-BUTADIENE	ND	0.79	ND	0.82	ND	0.95	ND	8.2	ND	7.9	ND	7.9	ND	0.76	ND	0.72
1,3-DICHLOROBENZENE	ND	2.1	ND	2.2	ND	2.6	ND	22.3	ND	21.4	ND	21.4	ND	2	ND	2
1,4-DICHLOROBENZENE	ND	2.1	ND	2.2	ND	2.6	ND	22.3	ND	21.4	**21.9**	21.4	ND	2	ND	2
1,4-DIOXANE	ND	6.4	ND	6.7	ND	7.8	ND	67	ND	64	ND	64	ND	6.1	ND	5.9
1-ETHYL-4-METHYL BENZENE	**1.2**	1.8	**1.3**	1.8	**2.1**	2.1	ND	18.3	ND	17.5	ND	17.5	ND	1.7	**1.4**	1.6
2-BUTANONE	ND	5.2	**5.5**	5.5	ND	6.4	ND	54.9	ND	52.5	ND	52.5	**6.1**	5	**13.3**	4.8
2-HEXANONE	ND	7.3	ND	7.6	ND	8.8	ND	76.2	ND	72.9	ND	72.9	ND	7	ND	6.7
3-CHLOROPROPENE	ND	2.8	ND	2.9	ND	3.4	ND	29.1	ND	27.8	ND	27.8	ND	2.7	ND	2.6
4-METHYL-2-PENTANONE	ND	7.3	ND	7.6	ND	8.8	ND	76.2	ND	72.9	ND	72.9	ND	7	ND	6.7
ACETONE	**13**	4.2	**44**	4.4	**74.9**	5.1	ND	44.2	ND	42.2	ND	42.2	**7.9**	4.1	**19.5**	3.9
BENZENE	**3.2**	0.57	**0.48**	0.59	**2.7**	0.69	**8.5**	5.9	**4.2**	5.7	**3**	5.7	ND	0.55	**0.27**	0.52
BROMODICHLOROMETHANE	ND	2.4	ND	2.5	ND	2.9	ND	24.9	ND	23.8	ND	23.8	ND	2.3	ND	2.2
BROMOFORM	ND	3.7	ND	3.8	ND	4.5	ND	38.4	ND	36.8	ND	36.8	ND	8.8	ND	8.5
BROMOMETHANE	ND	1.4	ND	1.4	ND	1.7	ND	14.5	ND	13.8	ND	13.8	ND	1.3	ND	1.3
CARBON DISULFIDE	ND	1.1	ND	1.2	ND	1.3	ND	11.5	ND	11	ND	11	ND	1.1	**2.4**	1
CARBON TETRACHLORIDE	ND	1.1	ND	1.2	ND	1.4	ND	11.7	ND	11.2	ND	11.2	ND	1.1	ND	1
CHLOROBENZENE	ND	1.6	ND	1.7	ND	2	ND	17.2	ND	16.4	ND	16.4	ND	1.6	ND	1.5
CHLORODIBROMOMETHANE	ND	3	ND	3.2	ND	3.7	ND	31.7	ND	30.3	ND	30.3	ND	2.9	ND	2.8
CHLORODIFLUOROMETHANE	ND	1.3	ND	1.3	**10.6**	1.5	**160**	13.2	**166**	12.6	**76.1**	12.6	**0.74**	1.2	ND	1.2
CHLOROETHANE	ND	0.94	ND	0.99	ND	1.1	ND	9.9	ND	9.4	ND	9.4	ND	0.91	ND	0.87
CHLOROFORM	ND	0.87	**2**	0.91	ND	1.1	**25.4**	9.1	**21.6**	8.7	**12.1**	8.7	**1.1**	0.83	**4.2**	0.8
CHLOROMETHANE	ND	0.74	ND	0.77	**1.8**	0.89	ND	7.7	ND	7.4	ND	7.4	ND	0.71	ND	0.68
CIS-1,2-DICHLOROETHENE	ND	1.4	**2.3**	1.5	**2.2**	1.7	**2010**	14.8	**850**	14.2	**266**	14.2	ND	1.4	ND	1.3
CIS-1,3-DICHLOROPROPENE	ND	1.6	ND	1.7	ND	2	ND	16.8	ND	16.1	ND	16.1	ND	1.5	ND	1.5
CYCLOHEXANE	**120**	12.2	**0.66**	1.3	**9.8**	1.5	ND	12.8	ND	12.2	ND	12.2	ND	1.2	ND	1.1
DICHLORODIFLUOROMETHANE	**2.2**	1.8	**2.1**	1.8	**3.8**	2.1	ND	18.5	ND	17.7	ND	17.7	ND	4.2	ND	4
ETHYLBENZENE	**1.1**	1.5	**1.3**	1.6	**11.7**	1.9	ND	16.1	ND	15.4	ND	15.4	ND	1.5	ND	1.4
HEXACHLOROBUTADIENE	ND	3.8	ND	4	ND	4.6	ND	39.7	ND	37.9	ND	37.9	ND	3.6	ND	3.5
HEXANE	**293**	12.6	**2**	1.3	**41.1**	1.5	ND	13.2	ND	12.6	ND	12.6	**1**	1.2	**5.7**	1.2
ISOPROPANOL	ND	4.4	**3.1**	4.6	**12**	5.3	ND	45.8	ND	43.8	ND	43.8	ND	4.2	**5.1**	4
ISOPROPYLBENZENE	ND	4.4	ND	4.6	ND	5.3	ND	45.8	ND	43.8	ND	43.8	ND	4.2	ND	4
M+P-XYLENES	**5.1**	3.1	**5.5**	3.2	**36.4**	3.8	ND	32.4	ND	31	ND	31	ND	3	**1.8**	2.8
METHYL ACETATE	ND	2.7	ND	2.8	ND	3.3	ND	28.2	ND	27	ND	27	ND	2.6	ND	2.5
METHYL CYCLOHEXANE	**85.5**	1.4	ND	1.5	**4.6**	1.7	ND	14.9	ND	14.3	ND	14.3	ND	1.4	ND	1.3
METHYL TERT-BUTYL ETHER	ND	6.4	ND	6.7	ND	7.8	ND	67.1	ND	64.1	ND	64.1	ND	6.2	ND	5.9
METHYLENE CHLORIDE	**3.3**	6.2	**5.7**	6.5	**515**	7.5	ND	64.6	ND	61.8	ND	61.8	ND	5.9	**37.6**	5.7
O-XYLENE	**1.2**	1.5	**1.4**	1.6	**10.4**	1.9	ND	16.1	ND	15.4	ND	15.4	ND	1.5	ND	1.4
PENTAFLUOROETHYL CHLORIDE	ND	5.6	ND	5.9	ND	6.8	ND	58.7	ND	56.2	ND	56.2	ND	5.4	ND	5.2
STYRENE	**0.82**	1.5	ND	1.6	**2**	1.8	ND	15.9	ND	15.2	ND	15.2	ND	1.5	**1.9**	1.4
TETRACHLOROETHENE	**8.9**	1.2	**103**	1.3	**10.2**	1.5	**1880**	12.6	**1730**	12.1	**1400**	12.1	**8.4**	1.2	**19.9**	1.1
TOLUENE	**14.8**	1.3	**7.9**	1.4	**52.9**	1.6	**119**	14.1	**19.7**	13.5	**16.7**	13.5	ND	1.3	**5.1**	1.2
TRANS-1,2-DICHLOROETHENE	ND	1.4	ND	1.5	ND	1.7	**19.8**	14.8	**11.6**	14.2	ND	14.2	ND	1.4	ND	1.3
TRANS-1,3-DICHLOROPROPENE	ND	1.6	ND	1.7	ND	2	ND	16.8	ND	16.1	ND	16.1	ND	1.5	ND	1.5
TRICHLOROETHENE	**4.8**	0.96	**170**	1	**49.9**	1.2	**34500**	322	**30100**	308	**12200**	154	**1.5**	0.92	**8**	0.89
TRICHLOROFLUOROMETHANE	**1.2**	2	**1.2**	2.1	**2.2**	2.4	**32.1**	20.9	**33.2**	20	**33.1**	20	**1.3**	1.9	**1.7**	1.8
VINYL CHLORIDE	ND	0.46	ND	0.48	ND	0.55	ND	4.8	ND	4.6	ND	4.6	ND	0.44	ND	0.42

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-106_28_20170302		VP-106_5_20170302		VP-106_56_20170302		VP-106_72_20170302		VP-106_72_20170302DUP		VP-106_84_20170302		VP-107_13_20170306		VP-107_20_20170306	
LAB ID	10381035016		10381035013		10381035017		10381035018		10381035020		10381035019		10381335004		10381335005	
SAMPLE DATE	20170302		20170302		20170302		20170302		20170302		20170302		20170306		20170306	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate									VP-106_72_20170302							
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	1.9	ND	2.2	**1.1**	1.9	**1.5**	1.9	**1.5**	1.9	**2.4**	1.5	ND	1.9	ND	89.4
1,1,2,2-TETRACHLOROETHANE	ND	2.4	ND	2.8	ND	2.3	ND	2.3	ND	2.4	ND	1.9	ND	1.2	ND	56.2
1,1,2-TRICHLOROETHANE	ND	0.96	ND	1.1	ND	0.92	ND	0.92	ND	0.96	ND	0.74	ND	0.96	ND	44.3
1,1,2-TRICHLOROTRIFLUOROETHANE	**1.2**	2.8	ND	3.2	**64.7**	2.7	**78.9**	2.7	**82.7**	2.8	**81.9**	2.1	**0.72**	2.8	**1080**	129
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.6	ND	6.4	ND	5.3	ND	5.3	ND	5.6	ND	4.3	ND	5.6	ND	256
1,1-DICHLOROETHANE	ND	1.4	ND	1.6	ND	1.4	ND	1.4	ND	1.4	ND	1.1	ND	1.4	ND	66
1,1-DICHLOROETHENE	ND	1.4	ND	1.6	**0.71**	1.4	**2.7**	1.4	**2.7**	1.4	**7.7**	1.1	ND	1.4	ND	65.2
1,2,4-TRICHLOROBENZENE	ND	6.6	ND	7.6	ND	6.3	ND	6.3	ND	6.6	ND	5.1	ND	6.6	ND	303
1,2,4-TRIMETHYLBENZENE	**8.8**	1.7	**1.6**	2	**1.6**	1.7	**1.7**	1.7	**1.4**	1.7	**1.4**	1.3	**1.1**	1.7	ND	80.4
1,2-DIBROMO-3-CHLOROPROPANE	ND	8.6	ND	9.9	ND	8.2	ND	8.2	ND	8.6	ND	6.6	ND	8.6	ND	395
1,2-DIBROMOETHANE	ND	2.7	ND	3.1	ND	2.6	ND	2.6	ND	2.7	ND	2.1	ND	2.7	ND	126
1,2-DICHLOROBENZENE	ND	2.1	ND	2.5	ND	2	ND	2	ND	2.1	ND	1.6	ND	2.1	ND	98.2
1,2-DICHLOROETHANE	ND	0.72	ND	0.82	ND	0.69	ND	0.69	ND	0.72	ND	0.55	ND	0.72	ND	33
1,2-DICHLOROPROPANE	ND	1.6	ND	1.9	ND	1.6	ND	1.6	ND	1.6	ND	1.3	ND	1.6	ND	75.7
1,2-DICHLOROTETRAFLUOROETHANE	ND	2.5	ND	2.9	ND	2.4	ND	2.4	ND	2.5	ND	1.9	ND	2.5	ND	114
1,3,5-TRIMETHYLBENZENE	**2.8**	1.7	**1.5**	2	**1.2**	1.7	**1.4**	1.7	**1.3**	1.7	**1.1**	1.3	ND	1.7	ND	80.4
1,3-BUTADIENE	ND	0.79	ND	0.9	ND	0.76	ND	0.76	ND	0.79	ND	0.6	ND	0.79	ND	36.2
1,3-DICHLOROBENZENE	ND	2.1	ND	2.5	ND	2	ND	2	ND	2.1	ND	1.6	ND	2.1	ND	98.2
1,4-DICHLOROBENZENE	**1.6**	2.1	ND	2.5	**1.6**	2	ND	2	ND	2.1	**1.3**	1.6	ND	2.1	ND	98.2
1,4-DIOXANE	ND	6.4	ND	7.4	ND	6.1	ND	6.1	ND	6.4	ND	4.9	ND	6.4	ND	295
1-ETHYL-4-METHYL BENZENE	**2.3**	1.8	ND	2	**1.6**	1.7	**1.5**	1.7	**1.5**	1.8	**1.3**	1.3	ND	1.8	ND	80.5
2-BUTANONE	ND	5.2	ND	6	ND	5	**3.8**	5	ND	5.2	**3**	4	**6.6**	5.2	ND	242
2-HEXANONE	ND	7.3	ND	8.4	ND	7	ND	7	ND	7.3	ND	5.6	ND	7.3	ND	335
3-CHLOROPROPENE	ND	2.8	ND	3.2	ND	2.7	ND	2.7	ND	2.8	ND	2.1	ND	2.8	ND	128
4-METHYL-2-PENTANONE	ND	7.3	ND	8.4	ND	7	**2.8**	7	ND	7.3	ND	5.6	ND	7.3	ND	335
ACETONE	**28.1**	4.2	**16.3**	4.9	**15.8**	4.1	**44.9**	4.1	**25.6**	4.2	**12.9**	3.2	**86.2**	4.2	ND	194
BENZENE	**0.54**	0.57	ND	0.65	**0.56**	0.55	**1.1**	0.55	**0.91**	0.57	**0.59**	0.44	**0.31**	0.57	ND	26.2
BROMODICHLOROMETHANE	**2.1**	2.4	ND	2.7	ND	2.3	ND	2.3	ND	2.4	ND	1.8	ND	2.4	ND	109
BROMOFORM	ND	9.2	ND	10.6	**4.1**	8.8	ND	8.8	ND	9.2	ND	7	ND	3.7	ND	169
BROMOMETHANE	ND	1.4	ND	1.6	ND	1.3	ND	1.3	ND	1.4	ND	1.1	ND	1.4	ND	63.6
CARBON DISULFIDE	ND	1.1	**12.6**	1.3	**0.64**	1.1	ND	1.1	ND	1.1	**0.59**	0.84	**0.62**	1.1	ND	50.7
CARBON TETRACHLORIDE	ND	1.1	ND	1.3	ND	1.1	ND	1.1	ND	1.1	ND	0.86	ND	1.1	ND	51.5
CHLOROBENZENE	ND	1.6	ND	1.9	ND	1.6	ND	1.6	ND	1.6	ND	1.3	ND	1.6	ND	75.7
CHLORODIBROMOMETHANE	ND	3	ND	3.5	ND	2.9	ND	2.9	ND	3	ND	2.3	ND	3	ND	139
CHLORODIFLUOROMETHANE	ND	1.3	ND	1.4	ND	1.2	ND	1.2	ND	1.3	ND	0.96	ND	1.3	**55.3**	57.9
CHLOROETHANE	ND	0.94	ND	1.1	ND	0.91	ND	0.91	ND	0.94	ND	0.72	ND	0.94	ND	43.5
CHLOROFORM	**6.4**	0.87	**1.2**	1	**2.5**	0.83	**3.2**	0.83	**3.5**	0.87	**3.8**	0.66	**2.3**	0.87	**185**	39.9
CHLOROMETHANE	ND	0.74	ND	0.84	ND	0.71	ND	0.71	ND	0.74	ND	0.56	ND	0.74	ND	33.8
CIS-1,2-DICHLOROETHENE	ND	1.4	ND	1.6	**65.1**	1.4	**69.1**	1.4	**72.3**	1.4	**55.6**	1.1	ND	1.4	**218**	65.2
CIS-1,3-DICHLOROPROPENE	ND	1.6	ND	1.8	ND	1.5	ND	1.5	ND	1.6	ND	1.2	ND	1.6	ND	74.1
CYCLOHEXANE	**1.4**	1.2	ND	1.4	ND	1.2	**0.85**	1.2	ND	1.2	ND	0.94	ND	1.2	ND	56.4
DICHLORODIFLUOROMETHANE	ND	4.4	ND	5.1	ND	4.2	ND	4.2	ND	4.4	ND	3.4	**2.8**	1.8	ND	81.3
ETHYLBENZENE	**0.84**	1.5	ND	1.8	ND	1.5	ND	1.5	ND	1.5	ND	1.2	ND	1.5	ND	70.8
HEXACHLOROBUTADIENE	ND	3.8	ND	4.4	ND	3.6	ND	3.6	ND	3.8	ND	2.9	ND	3.8	ND	175
HEXANE	**33.8**	1.3	**1.3**	1.4	**4.3**	1.2	**9.8**	1.2	**0.98**	1.3	**1.5**	0.96	**2.4**	1.3	ND	58
ISOPROPANOL	**2.4**	4.4	ND	5	ND	4.2	**10**	4.2	**2.9**	4.4	**5.1**	3.4	**3.6**	4.4	ND	201
ISOPROPYLBENZENE	ND	4.4	ND	5	ND	4.2	ND	4.2	ND	4.4	ND	3.4	ND	4.4	ND	201
M+P-XYLENES	**4.7**	3.1	**1.9**	3.6	**2.2**	3	**2.7**	3	**2.1**	3.1	**2.7**	2.4	**1.6**	3.1	ND	142
METHYL ACETATE	ND	2.7	ND	3.1	ND	2.6	ND	2.6	ND	2.7	ND	2.1	ND	2.7	ND	124
METHYL CYCLOHEXANE	ND	1.4	ND	1.6	ND	1.4	ND	1.4	ND	1.4	ND	1.1	ND	1.4	ND	65.7
METHYL TERT-BUTYL ETHER	ND	6.4	ND	7.4	ND	6.2	ND	6.2	ND	6.4	ND	4.9	ND	6.4	ND	295
METHYLENE CHLORIDE	**122**	8.3	**7**	7.1	**33.8**	5.9	**71.4**	5.9	ND	6.2	ND	4.7	**9.3**	6.2	ND	284
O-XYLENE	**1.7**	1.5	ND	1.8	ND	1.5	ND	1.5	ND	1.5	**0.66**	1.2	**0.84**	1.5	ND	70.8
PENTAFLUOROETHYL CHLORIDE	ND	5.6	ND	6.5	ND	5.4	ND	5.4	ND	5.6	ND	4.3	**Rejected**	5.6	**Rejected**	258
STYRENE	**1.2**	1.5	ND	1.7	**1**	1.5	**1.3**	1.5	**1.1**	1.5	ND	1.2	ND	1.5	ND	70
TETRACHLOROETHENE	**26.7**	1.2	**3.9**	1.4	**305**	23.2	**617**	29.7	**552**	1.2	**487**	24.7	ND	1.2	**568**	55.5
TOLUENE	**11.1**	1.3	ND	1.5	**5.5**	1.3	**27.5**	1.3	**22.5**	1.3	**30.4**	1	**3.6**	1.3	ND	62
TRANS-1,2-DICHLOROETHENE	ND	1.4	ND	1.6	**3.1**	1.4	**3.3**	1.4	**3.3**	1.4	**2.5**	1.1	ND	1.4	ND	65.2
TRANS-1,3-DICHLOROPROPENE	ND	1.6	ND	1.8	ND	1.5	ND	1.5	ND	1.6	ND	1.2	ND	4	ND	186
TRICHLOROETHENE	**6.6**	0.96	ND	1.1	**1020**	18.5	**2230**	23.7	**1330**	0.96	**1920**	19.8	**53**	0.96	**307000**	1130
TRICHLOROFLUOROMETHANE	**2.2**	2	**1.2**	2.3	**10.9**	1.9	**9.6**	1.9	**9.6**	2	**8.3**	1.5	**1.4**	2	**80.5**	91.8
VINYL CHLORIDE	ND	0.46	ND	0.52	ND	0.44	ND	0.44	ND	0.46	ND	0.35	ND	0.46	ND	20.9

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-107_33.5_20170306		VP-107_44_20170306		VP-107_5_20170306		VP-107_60_20170306		VP-107_74_20170306		VP-108_10_20170307		VP-108_20_20170307		VP-108_29.5_20170307	
LAB ID	10381335006		10381335007		10381335003		10381335008		10381335009		10381335018		10381335019		10381335020	
SAMPLE DATE	20170306		20170306		20170306		20170306		20170306		20170307		20170307		20170307	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate																
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	35.7	ND	102	ND	2	ND	37.3	ND	40.6	ND	1.9	ND	1.9	**138**	163
1,1,2,2-TETRACHLOROETHANE	ND	22.5	ND	63.9	ND	1.3	ND	23.5	ND	25.5	ND	1.2	ND	1.2	ND	102
1,1,2-TRICHLOROETHANE	**119**	17.7	ND	50.3	ND	1	ND	18.5	ND	20.1	ND	0.92	ND	0.96	ND	80.5
1,1,2-TRICHLOROTRIFLUOROETHANE	**765**	51.5	**266**	468	**1.5**	2.9	**130**	53.8	**123**	58.6	**0.7**	2.7	**10.3**	2.8	**7600**	1720
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	102	ND	291	ND	5.8	ND	107	ND	116	ND	5.3	ND	5.6	ND	466
1,1-DICHLOROETHANE	ND	26.4	ND	75	ND	1.5	ND	27.6	ND	30	ND	1.4	ND	1.4	ND	120
1,1-DICHLOROETHENE	**25**	26.1	ND	74.1	ND	1.5	ND	27.2	ND	29.6	ND	1.4	ND	1.4	ND	119
1,2,4-TRICHLOROBENZENE	ND	121	ND	345	ND	6.9	ND	127	ND	138	ND	6.3	ND	6.6	ND	552
1,2,4-TRIMETHYLBENZENE	ND	32.2	ND	91.4	ND	1.8	ND	33.6	ND	36.6	ND	1.7	ND	1.7	ND	146
1,2-DIBROMO-3-CHLOROPROPANE	ND	158	ND	449	ND	9	ND	165	ND	180	ND	8.2	ND	8.6	ND	719
1,2-DIBROMOETHANE	ND	50.2	ND	143	ND	2.9	ND	52.4	ND	57.1	ND	2.6	ND	2.7	ND	228
1,2-DICHLOROBENZENE	ND	39.3	ND	112	ND	2.2	ND	41	ND	44.7	ND	2	ND	2.1	ND	179
1,2-DICHLOROETHANE	ND	13.2	ND	37.5	ND	0.75	ND	13.8	ND	15	ND	0.69	ND	0.72	ND	60
1,2-DICHLOROPROPANE	ND	30.3	ND	86	ND	1.7	ND	31.6	ND	34.4	ND	1.6	ND	1.6	ND	138
1,2-DICHLOROTETRAFLUOROETHANE	ND	45.7	ND	130	ND	2.6	ND	47.7	ND	52	ND	2.4	ND	2.5	ND	208
1,3,5-TRIMETHYLBENZENE	ND	32.2	ND	91.4	ND	1.8	ND	33.6	ND	36.6	ND	1.7	ND	1.7	ND	146
1,3-BUTADIENE	ND	14.5	ND	41.2	ND	0.82	ND	15.1	ND	16.5	ND	0.76	ND	0.79	ND	65.9
1,3-DICHLOROBENZENE	ND	39.3	ND	112	ND	2.2	ND	41	ND	44.7	ND	2	ND	2.1	ND	179
1,4-DICHLOROBENZENE	ND	39.3	ND	280	ND	2.2	ND	41	ND	44.7	ND	2	ND	2.1	ND	447
1,4-DIOXANE	ND	118	ND	335	ND	6.7	ND	123	ND	134	ND	6.1	ND	6.4	ND	536
1-ETHYL-4-METHYL BENZENE	ND	32.2	ND	91.5	ND	1.8	ND	33.6	ND	36.6	ND	1.7	ND	1.8	ND	146
2-BUTANONE	ND	96.6	ND	274	ND	5.5	ND	101	ND	110	ND	5	ND	5.2	ND	439
2-HEXANONE	ND	134	ND	381	ND	7.6	ND	140	ND	152	ND	7	ND	7.3	ND	610
3-CHLOROPROPENE	ND	51.2	ND	145	ND	2.9	ND	53.4	ND	58.2	ND	2.7	ND	2.8	ND	233
4-METHYL-2-PENTANONE	ND	134	ND	381	ND	7.6	ND	140	ND	152	ND	7	ND	7.3	ND	610
ACETONE	ND	77.7	ND	221	**5.6**	4.4	ND	81.1	ND	88.4	**5.4**	4.1	**12.6**	4.2	ND	353
BENZENE	ND	10.5	ND	29.7	**0.88**	0.59	ND	10.9	ND	11.9	ND	0.55	**0.34**	0.57	ND	47.6
BROMODICHLOROMETHANE	ND	43.8	ND	623	ND	2.5	ND	45.7	ND	49.8	ND	2.3	ND	2.4	ND	997
BROMOFORM	ND	67.7	ND	192	ND	3.8	ND	70.6	ND	76.9	ND	3.5	ND	3.7	ND	308
BROMOMETHANE	ND	25.4	ND	72.3	ND	1.4	ND	26.5	ND	28.9	ND	1.3	ND	1.4	ND	116
CARBON DISULFIDE	ND	20.3	ND	57.6	ND	1.2	**47.4**	21.2	ND	23.1	ND	1.1	ND	1.1	ND	92.2
CARBON TETRACHLORIDE	ND	20.6	ND	58.6	ND	1.2	ND	21.5	ND	23.4	ND	1.1	ND	1.1	ND	93.7
CHLOROBENZENE	ND	30.3	ND	86	ND	1.7	ND	31.6	ND	34.4	ND	1.6	ND	1.6	ND	138
CHLORODIBROMOMETHANE	ND	55.7	ND	158	ND	3.2	ND	58.1	ND	63.3	ND	2.9	ND	3	ND	253
CHLORODIFLUOROMETHANE	**174**	23.2	**195**	65.8	ND	1.3	**238**	24.2	**181**	26.3	**1.1**	1.2	ND	1.3	ND	105
CHLOROETHANE	ND	17.4	ND	49.4	ND	0.99	ND	18.1	ND	19.8	ND	0.91	**0.55**	0.94	ND	79.1
CHLOROFORM	**157**	16	**161**	45.4	**0.72**	0.91	**81.9**	16.7	**69.1**	18.2	ND	0.83	**0.92**	0.87	**116**	72.6
CHLOROMETHANE	ND	13.5	ND	38.4	**1.2**	0.77	ND	14.1	ND	15.4	ND	0.71	ND	0.74	ND	61.5
CIS-1,2-DICHLOROETHENE	**605**	26.1	**838**	474	**15.4**	1.5	**446**	27.2	**302**	29.6	ND	1.4	**33.8**	1.4	**42300**	871
CIS-1,3-DICHLOROPROPENE	ND	29.6	ND	84.2	ND	1.7	ND	30.9	ND	33.7	ND	1.5	ND	1.6	ND	135
CYCLOHEXANE	ND	22.5	ND	64	ND	1.3	ND	23.5	ND	25.6	ND	1.2	ND	1.2	ND	102
DICHLORODIFLUOROMETHANE	ND	32.5	ND	92.4	**2.8**	1.8	ND	33.9	ND	37	**2.9**	1.7	**2.9**	1.8	ND	148
ETHYLBENZENE	ND	28.3	ND	80.5	ND	1.6	ND	29.6	ND	32.2	ND	1.5	ND	1.5	ND	129
HEXACHLOROBUTADIENE	ND	69.8	ND	198	ND	4	ND	72.8	ND	79.3	ND	3.6	ND	3.8	ND	317
HEXANE	ND	23.2	ND	65.9	**1.2**	1.3	ND	24.2	ND	26.4	**1.1**	1.2	**1.2**	1.3	ND	105
ISOPROPANOL	ND	80.5	ND	229	ND	4.6	ND	84	ND	91.5	**22.4**	4.2	**4.3**	4.4	ND	366
ISOPROPYLBENZENE	ND	80.5	ND	229	ND	4.6	ND	84	ND	91.5	ND	4.2	ND	4.4	ND	366
M+P-XYLENES	ND	57	ND	162	ND	3.2	ND	59.5	ND	64.8	ND	3	ND	3.1	ND	259
METHYL ACETATE	ND	49.6	ND	141	ND	2.8	ND	51.7	ND	56.4	ND	2.6	ND	2.7	ND	225
METHYL CYCLOHEXANE	ND	26.3	ND	74.7	ND	1.5	ND	27.4	ND	29.9	ND	1.4	ND	1.4	ND	119
METHYL TERT-BUTYL ETHER	ND	118	ND	335	ND	6.7	ND	123	ND	134	ND	6.2	ND	6.4	ND	537
METHYLENE CHLORIDE	ND	114	ND	323	**6.7**	6.5	ND	119	ND	129	**7.7**	5.9	**5.8**	6.2	ND	517
O-XYLENE	ND	28.3	ND	80.5	ND	1.6	ND	29.6	ND	32.2	ND	1.5	ND	1.5	ND	129
PENTAFLUOROETHYL CHLORIDE	**Rejected**	103	ND	294	ND	5.9	**Rejected**	108	**Rejected**	117	**Rejected**	5.4	**Rejected**	5.6	ND	470
STYRENE	ND	28	ND	79.6	ND	1.6	ND	29.2	ND	31.8	ND	1.5	ND	1.5	ND	127
TETRACHLOROETHENE	**1360**	22.2	**1530**	63	**114**	1.3	**1390**	23.2	**1090**	25.2	**7.7**	1.2	**958**	12.1	**209000**	741
TOLUENE	**21.8**	24.8	ND	70.5	**1.7**	1.4	ND	25.9	**22**	28.2	ND	1.3	**1.3**	1.3	ND	113
TRANS-1,2-DICHLOROETHENE	**51.3**	26.1	ND	74.1	ND	1.5	ND	27.2	ND	29.6	ND	1.4	ND	1.4	**308**	119
TRANS-1,3-DICHLOROPROPENE	ND	74.3	ND	84.2	ND	4.2	ND	77.5	ND	84.4	ND	3.9	ND	4	ND	135
TRICHLOROETHENE	**535000**	2270	**71000**	322	**184**	1	**20400**	148	**5840**	20.1	**5.4**	0.92	**69.4**	0.96	**13800**	80.5
TRICHLOROFLUOROMETHANE	**85.5**	36.7	ND	104	**1.4**	2.1	**25.6**	38.3	ND	41.7	**1.7**	1.9	**1.7**	2	ND	167
VINYL CHLORIDE	ND	8.4	ND	23.8	ND	0.48	ND	8.7	ND	9.5	ND	0.44	ND	0.46	ND	38.1

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-108_5_20170307		VP-108D_50.5_20170307		VP-108D_50.5_20170307DUP		VP-108D_60_20170307		VP-108D_70_20170307		VP-2_10_20170302		VP-2_10_20170302DUP		VP-2_20_20170302		VP-2_30_20170302	
LAB ID	10381335017		10381335021		10381335024		10381335022		10381335023		10381035006		10381035021		10381035007		10381035008	
SAMPLE DATE	20170307		20170307		20170307		20170307		20170307		20170302		20170302		20170302		20170302	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate					VP-108D_50.5_20170307								VP-2_10_20170302					
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	1.8	ND	18.6	ND	20.3	**6.1**	1.9	ND	9.7	**7.2**	1.9	**7.5**	1.9	**3**	1.9	**2.4**	1.9
1,1,2,2-TETRACHLOROETHANE	ND	1.1	ND	11.7	ND	12.8	ND	1.2	ND	6.1	ND	2.4	ND	2.3	ND	2.4	ND	2.3
1,1,2-TRICHLOROETHANE	ND	0.89	ND	9.2	ND	10.1	ND	0.96	ND	4.8	ND	0.96	ND	0.92	ND	0.96	ND	0.92
1,1,2-TRICHLOROTRIFLUOROETHANE	ND	2.6	**16**	26.9	**10.3**	29.3	**413**	2.8	**342**	14	**1.4**	2.8	**1.5**	2.7	**1.9**	2.8	**54.4**	2.7
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.1	ND	53.4	ND	58.2	ND	5.6	ND	27.8	ND	5.6	ND	5.3	ND	5.6	ND	5.3
1,1-DICHLOROETHANE	ND	1.3	ND	13.8	ND	15	**1.2**	1.4	ND	7.2	**6.7**	1.4	**6.8**	1.4	**1.4**	1.4	ND	1.4
1,1-DICHLOROETHENE	ND	1.3	ND	13.6	ND	14.8	**21.7**	1.4	**4.7**	7.1	**13.5**	1.4	**14.1**	1.4	ND	1.4	**0.72**	1.4
1,2,4-TRICHLOROBENZENE	ND	6.1	ND	63.3	ND	69	ND	6.6	ND	33	ND	6.6	ND	6.3	ND	6.6	ND	6.3
1,2,4-TRIMETHYLBENZENE	**3.1**	1.6	**1.7**	16.8	ND	18.3	ND	1.7	ND	8.7	**1.2**	1.7	**1.3**	1.7	**1.4**	1.7	**1.5**	1.7
1,2-DIBROMO-3-CHLOROPROPANE	ND	7.9	ND	82.5	ND	89.9	ND	8.6	ND	43	ND	8.6	ND	8.2	ND	8.6	ND	8.2
1,2-DIBROMOETHANE	ND	2.5	ND	26.2	ND	28.5	ND	2.7	ND	13.6	ND	2.7	ND	2.6	ND	2.7	ND	2.6
1,2-DICHLOROBENZENE	ND	2	ND	20.5	ND	22.3	**3.5**	2.1	ND	10.7	ND	2.1	ND	2	ND	2.1	ND	2
1,2-DICHLOROETHANE	ND	0.66	ND	6.9	ND	7.5	**0.51**	0.72	ND	3.6	ND	0.72	**0.46**	0.69	ND	0.72	ND	0.69
1,2-DICHLOROPROPANE	ND	1.5	ND	15.8	ND	17.2	ND	1.6	ND	8.2	ND	1.6	ND	1.6	ND	1.6	ND	1.6
1,2-DICHLOROTETRAFLUOROETHANE	ND	2.3	ND	23.9	ND	26	ND	2.5	ND	12.4	ND	2.5	ND	2.4	ND	2.5	ND	2.4
1,3,5-TRIMETHYLBENZENE	**0.99**	1.6	ND	16.8	ND	18.3	ND	1.7	ND	8.7	ND	1.7	**1.3**	1.7	**1.7**	1.7	**1.4**	1.7
1,3-BUTADIENE	ND	0.72	ND	7.6	ND	8.2	ND	0.79	ND	3.9	ND	0.79	ND	0.76	ND	0.79	ND	0.76
1,3-DICHLOROBENZENE	ND	2	ND	20.5	ND	22.3	ND	2.1	ND	10.7	ND	2.1	ND	2	ND	2.1	ND	2
1,4-DICHLOROBENZENE	ND	2	ND	20.5	ND	22.3	**1.3**	2.1	ND	10.7	ND	2.1	ND	2	ND	2.1	**1.7**	2
1,4-DIOXANE	ND	5.9	ND	61.5	ND	67	ND	6.4	ND	32	ND	6.4	ND	6.1	ND	6.4	ND	6.1
1-ETHYL-4-METHYL BENZENE	**1.2**	1.6	ND	16.8	ND	18.3	**0.96**	1.8	ND	8.8	ND	1.8	**1.4**	1.7	**2.4**	1.8	**1.5**	1.7
2-BUTANONE	ND	4.8	ND	50.4	ND	54.9	**3.7**	5.2	ND	26.2	ND	5.2	**3.2**	5	**7.7**	5.2	**6.2**	5
2-HEXANONE	ND	6.7	ND	70	ND	76.2	ND	7.3	ND	36.4	**2.3**	7.3	ND	7	ND	7.3	ND	7
3-CHLOROPROPENE	ND	2.6	ND	26.7	ND	29.1	ND	2.8	ND	13.9	ND	2.8	ND	2.7	ND	2.8	ND	2.7
4-METHYL-2-PENTANONE	ND	6.7	ND	70	ND	76.2	ND	7.3	ND	36.4	ND	7.3	ND	7	ND	7.3	ND	7
ACETONE	**298**	3.9	**14.4**	40.6	**20.6**	44.2	**20.6**	4.2	**17.6**	21.1	**5.7**	4.2	**17.9**	4.1	**33.8**	4.2	**27.4**	4.1
BENZENE	**2.4**	0.52	ND	5.5	ND	5.9	**0.58**	0.57	ND	2.8	ND	0.57	ND	0.55	ND	0.57	**0.55**	0.55
BROMODICHLOROMETHANE	ND	2.2	ND	22.8	ND	24.9	ND	2.4	ND	11.9	ND	2.4	ND	2.3	ND	2.4	ND	2.3
BROMOFORM	ND	3.4	ND	35.3	ND	38.4	ND	3.7	ND	18.4	ND	9.2	ND	8.8	ND	9.2	ND	8.8
BROMOMETHANE	ND	1.3	ND	13.3	ND	14.5	ND	1.4	ND	6.9	ND	1.4	ND	1.3	ND	1.4	ND	1.3
CARBON DISULFIDE	ND	1	ND	10.6	ND	11.5	ND	1.1	ND	5.5	ND	1.1	ND	1.1	ND	1.1	**0.64**	1.1
CARBON TETRACHLORIDE	**0.53**	1	ND	10.8	ND	11.7	ND	1.1	ND	5.6	ND	1.1	ND	1.1	ND	1.1	ND	1.1
CHLOROBENZENE	ND	1.5	ND	15.8	ND	17.2	ND	1.6	ND	8.2	ND	1.6	ND	1.6	ND	1.6	ND	1.6
CHLORODIBROMOMETHANE	ND	2.8	ND	29.1	ND	31.7	ND	3	ND	15.1	ND	3	ND	2.9	ND	3	ND	2.9
CHLORODIFLUOROMETHANE	ND	1.2	ND	12.1	ND	13.2	ND	1.3	ND	6.3	ND	1.3	ND	1.2	ND	1.3	ND	1.2
CHLOROETHANE	**0.68**	0.87	ND	9.1	ND	9.9	ND	0.94	ND	4.7	ND	0.94	ND	0.91	ND	0.94	ND	0.91
CHLOROFORM	ND	0.8	ND	8.3	ND	9.1	**0.64**	0.87	ND	4.3	**1.7**	0.87	**1.7**	0.83	**1.1**	0.87	**1**	0.83
CHLOROMETHANE	**1.8**	0.68	ND	7.1	ND	7.7	ND	0.74	ND	3.7	ND	0.74	ND	0.71	ND	0.74	ND	0.71
CIS-1,2-DICHLOROETHENE	ND	1.3	**878**	13.6	**692**	14.8	**3510**	70.9	**535**	7.1	**3180**	56.7	**2770**	68	**105**	1.4	**124**	1.4
CIS-1,3-DICHLOROPROPENE	ND	1.5	ND	15.5	ND	16.8	ND	1.6	ND	8	ND	1.6	ND	1.5	ND	1.6	ND	1.5
CYCLOHEXANE	**2**	1.1	ND	11.8	ND	12.8	ND	1.2	ND	6.1	ND	1.2	ND	1.2	ND	1.2	ND	1.2
DICHLORODIFLUOROMETHANE	**3.1**	1.6	ND	17	ND	18.5	**6.1**	1.8	**10.3**	8.8	ND	4.4	ND	4.2	ND	4.4	ND	4.2
ETHYLBENZENE	**2.5**	1.4	**3.9**	14.8	**2.8**	16.1	**5**	1.5	**6.2**	7.7	ND	1.5	ND	1.5	ND	1.5	ND	1.5
HEXACHLOROBUTADIENE	ND	3.5	ND	91.1	ND	99.2	ND	3.8	ND	19	ND	3.8	ND	3.6	ND	3.8	ND	3.6
HEXANE	**2.6**	1.2	ND	12.1	ND	13.2	**2.6**	1.3	ND	6.3	**1.2**	1.3	**1.2**	1.2	ND	1.3	ND	1.2
ISOPROPANOL	**7.9**	4	ND	42	ND	45.8	ND	4.4	ND	21.9	ND	4.4	ND	4.2	**5.7**	4.4	**5.2**	4.2
ISOPROPYLBENZENE	ND	4	ND	42	ND	45.8	ND	4.4	ND	21.9	ND	4.4	ND	4.2	ND	4.4	ND	4.2
M+P-XYLENES	**10.5**	2.8	**23**	29.7	**13.7**	32.4	**36.3**	3.1	**45.8**	15.5	ND	3.1	**1.6**	3	**2.1**	3.1	**2.8**	3
METHYL ACETATE	ND	2.5	ND	25.9	ND	28.2	ND	2.7	**39.1**	13.5	ND	2.7	ND	2.6	ND	2.7	ND	2.6
METHYL CYCLOHEXANE	**0.97**	1.3	ND	13.7	ND	14.9	ND	1.4	ND	7.1	ND	1.4	ND	1.4	ND	1.4	ND	1.4
METHYL TERT-BUTYL ETHER	ND	5.9	ND	61.6	ND	67.1	ND	6.4	ND	32.1	ND	6.4	ND	6.2	ND	6.4	ND	6.2
METHYLENE CHLORIDE	**19.2**	5.7	**31**	59.3	**10.7**	64.6	**6.1**	6.2	ND	30.9	**8.5**	6.2	**6.2**	5.9	ND	6.2	**4.1**	5.9
O-XYLENE	**4.2**	1.4	ND	14.8	ND	16.1	**1.8**	1.5	ND	7.7	ND	1.5	ND	1.5	ND	1.5	**0.94**	1.5
PENTAFLUOROETHYL CHLORIDE	**Rejected**	5.2	ND	53.9	ND	58.7	**Rejected**	5.6	**Rejected**	28.1	ND	5.6	ND	5.4	ND	5.6	ND	5.4
STYRENE	**230**	1.4	ND	14.6	ND	15.9	ND	1.5	ND	7.6	ND	1.5	**1**	1.5	**1.1**	1.5	**1.1**	1.5
TETRACHLOROETHENE	**0.78**	1.1	**48.8**	11.6	**33.7**	12.6	**99.5**	1.2	**118**	6	**1930**	48.2	**1780**	57.9	**179**	1.2	**391**	1.2
TOLUENE	**8.3**	1.2	**44.8**	12.9	**27.6**	14.1	**111**	1.3	**124**	6.7	**0.75**	1.3	**1.3**	1.3	**2.1**	1.3	**22.7**	1.3
TRANS-1,2-DICHLOROETHENE	ND	1.3	ND	13.6	ND	14.8	**8.1**	1.4	ND	7.1	**4.7**	1.4	**4.8**	1.4	ND	1.4	**1.2**	1.4
TRANS-1,3-DICHLOROPROPENE	ND	3.7	ND	15.5	ND	16.8	**1**	4	ND	20.2	ND	1.6	ND	1.5	ND	1.6	ND	1.5
TRICHLOROETHENE	ND	0.89	**33.5**	9.2	**22.8**	10.1	**127**	0.96	**30.9**	4.8	**269**	0.96	**271**	0.92	**151**	0.96	**288**	0.92
TRICHLOROFLUOROMETHANE	**1.8**	1.8	ND	19.2	ND	20.9	**12.5**	2	**15.7**	10	**1.6**	2	**1.7**	1.9	**1.5**	2	**1.7**	1.9
VINYL CHLORIDE	ND	0.42	ND	4.4	ND	4.8	ND	0.46	ND	2.3	**7.9**	0.46	**8.2**	0.44	ND	0.46	ND	0.44

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-2_5_20170302		VP-3_10_20170307		VP-3_20_20170307		VP-3_30_20170307		VP-3_5_20170307		VP-3_5_20170307DUP		VP-3D_40_20170307		VP-3D_51_20170307		VP-3D_61_20170307	
LAB ID	10381035005		10381335011		10381335012		10381335027		10381335010		10381335026		10381335013		10381335014		10381335015	
SAMPLE DATE	20170302		20170307		20170307		20170307		20170307		20170307		20170307		20170307		20170307	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate											VP-3_5_20170307							
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	**11.3**	1.9	ND	2.9	ND	1.9	ND	10.2	ND	1.9	ND	1.9	ND	1.9	ND	9.7	ND	9.7
1,1,2,2-TETRACHLOROETHANE	ND	2.4	ND	1.8	ND	1.2	ND	6.4	ND	1.2	ND	1.2	ND	1.2	ND	6.1	ND	6.1
1,1,2-TRICHLOROETHANE	ND	0.96	ND	1.4	ND	0.96	ND	5	ND	0.92	ND	0.92	ND	0.92	ND	4.8	ND	4.8
1,1,2-TRICHLOROTRIFLUOROETHANE	**0.72**	2.8	**2.4**	4.1	**2.2**	2.8	ND	14.6	**1.1**	2.7	**1**	2.7	**4.3**	2.7	**15.8**	14	**28.8**	14
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.6	ND	8.2	ND	5.6	ND	29.1	ND	5.3	ND	5.3	ND	5.3	ND	27.8	ND	27.8
1,1-DICHLOROETHANE	ND	1.4	ND	2.1	ND	1.4	ND	7.5	ND	1.4	ND	1.4	ND	1.4	ND	7.2	ND	7.2
1,1-DICHLOROETHENE	ND	1.4	ND	2.1	ND	1.4	ND	7.4	ND	1.4	ND	1.4	ND	1.4	ND	7.1	ND	7.1
1,2,4-TRICHLOROBENZENE	ND	6.6	ND	9.7	ND	6.6	ND	34.5	ND	6.3	ND	6.3	ND	6.3	ND	33	ND	33
1,2,4-TRIMETHYLBENZENE	**1.3**	1.7	ND	2.6	ND	1.7	ND	9.1	ND	1.7	ND	1.7	**2.7**	1.7	ND	8.7	ND	8.7
1,2-DIBROMO-3-CHLOROPROPANE	ND	8.6	ND	12.6	ND	8.6	ND	44.9	ND	8.2	ND	8.2	ND	8.2	ND	43	ND	43
1,2-DIBROMOETHANE	ND	2.7	ND	4	ND	2.7	ND	14.3	ND	2.6	ND	2.6	ND	2.6	ND	13.6	ND	13.6
1,2-DICHLOROBENZENE	ND	2.1	ND	3.1	ND	2.1	ND	11.2	ND	2	ND	2	ND	2	ND	10.7	ND	10.7
1,2-DICHLOROETHANE	ND	0.72	ND	1.1	ND	0.72	ND	3.8	ND	0.69	ND	0.69	ND	0.69	ND	3.6	ND	3.6
1,2-DICHLOROPROPANE	ND	1.6	ND	2.4	ND	1.6	ND	8.6	ND	1.6	ND	1.6	ND	1.6	ND	8.2	ND	8.2
1,2-DICHLOROTETRAFLUOROETHANE	ND	2.5	ND	3.6	ND	2.5	ND	13	ND	2.4	ND	2.4	ND	2.4	ND	12.4	ND	12.4
1,3,5-TRIMETHYLBENZENE	**1.3**	1.7	ND	2.6	ND	1.7	ND	9.1	ND	1.7	ND	1.7	ND	1.7	ND	8.7	ND	8.7
1,3-BUTADIENE	ND	0.79	ND	1.2	ND	0.79	ND	4.1	ND	0.76	ND	0.76	ND	0.76	ND	3.9	ND	3.9
1,3-DICHLOROBENZENE	ND	2.1	ND	3.1	ND	2.1	ND	11.2	ND	2	ND	2	ND	2	ND	10.7	ND	10.7
1,4-DICHLOROBENZENE	ND	2.1	ND	7.9	ND	2.1	ND	11.2	ND	2	ND	2	ND	5.1	ND	10.7	ND	10.7
1,4-DIOXANE	ND	6.4	ND	9.4	ND	6.4	ND	33.5	ND	6.1	ND	6.1	ND	6.1	ND	32	ND	32
1-ETHYL-4-METHYL BENZENE	**1.5**	1.8	ND	2.6	ND	1.8	ND	9.2	ND	1.7	ND	1.7	ND	1.7	ND	8.8	ND	8.8
2-BUTANONE	**3.2**	5.2	ND	7.7	**3**	5.2	ND	27.4	**3.9**	5	**3.1**	5	**6.7**	5	ND	26.2	ND	26.2
2-HEXANONE	ND	7.3	ND	10.7	ND	7.3	ND	38.1	ND	7	ND	7	ND	7	ND	36.4	ND	36.4
3-CHLOROPROPENE	ND	2.8	ND	4.1	ND	2.8	ND	14.5	ND	2.7	ND	2.7	ND	2.7	ND	13.9	ND	13.9
4-METHYL-2-PENTANONE	ND	7.3	ND	10.7	ND	7.3	ND	38.1	ND	7	ND	7	ND	7	ND	36.4	ND	36.4
ACETONE	**18.2**	4.2	**15.6**	6.2	**15.2**	4.2	ND	22.1	**24.3**	4.1	**32.4**	4.1	**88.2**	4.1	**13.6**	21.1	**11.8**	21.1
BENZENE	ND	0.57	ND	0.84	ND	0.57	ND	3	ND	0.55	ND	0.55	**0.33**	0.55	ND	2.8	ND	2.8
BROMODICHLOROMETHANE	ND	2.4	ND	17.5	ND	2.4	ND	12.4	ND	2.3	ND	2.3	ND	11.4	ND	11.9	ND	11.9
BROMOFORM	ND	9.2	ND	5.4	ND	3.7	ND	19.2	ND	3.5	ND	3.5	ND	3.5	ND	18.4	**9.9**	18.4
BROMOMETHANE	ND	1.4	ND	2	ND	1.4	ND	7.2	ND	1.3	ND	1.3	ND	1.3	ND	6.9	ND	6.9
CARBON DISULFIDE	ND	1.1	ND	1.6	ND	1.1	ND	5.8	ND	1.1	ND	1.1	**1.6**	1.1	ND	5.5	ND	5.5
CARBON TETRACHLORIDE	ND	1.1	ND	1.6	ND	1.1	ND	5.9	ND	1.1	ND	1.1	ND	1.1	ND	5.6	ND	5.6
CHLOROBENZENE	ND	1.6	ND	2.4	ND	1.6	ND	8.6	ND	1.6	ND	1.6	ND	1.6	ND	8.2	ND	8.2
CHLORODIBROMOMETHANE	ND	3	ND	4.4	ND	3	ND	15.8	ND	2.9	ND	2.9	ND	2.9	ND	15.1	**17.3**	15.1
CHLORODIFLUOROMETHANE	ND	1.3	ND	1.8	**1.3**	1.3	ND	6.6	ND	1.2	**1.8**	1.2	ND	1.2	ND	6.3	ND	6.3
CHLOROETHANE	ND	0.94	ND	1.4	ND	0.94	ND	4.9	ND	0.91	ND	0.91	ND	0.91	ND	4.7	ND	4.7
CHLOROFORM	**1.7**	0.87	**0.89**	1.3	**2.5**	0.87	**7.2**	4.5	**1.7**	0.83	**1.3**	0.83	**5.2**	0.83	**13.3**	4.3	**7.5**	4.3
CHLOROMETHANE	ND	0.74	ND	1.1	ND	0.74	ND	3.8	**0.6**	0.71	ND	0.71	ND	0.71	ND	3.7	ND	3.7
CIS-1,2-DICHLOROETHENE	**2.5**	1.4	ND	2.1	**8.9**	1.4	**23.8**	7.4	ND	1.4	ND	1.4	**20.1**	1.4	**193**	7.1	**133**	7.1
CIS-1,3-DICHLOROPROPENE	ND	1.6	ND	2.4	ND	1.6	ND	8.4	ND	1.5	ND	1.5	ND	1.5	ND	8	ND	8
CYCLOHEXANE	ND	1.2	ND	1.8	ND	1.2	ND	6.4	ND	1.2	ND	1.2	ND	1.2	ND	6.1	ND	6.1
DICHLORODIFLUOROMETHANE	ND	4.4	**2.7**	2.6	**2.5**	1.8	**4.7**	9.2	**2.6**	1.7	**2.7**	1.7	**2.3**	1.7	ND	8.8	**6.5**	8.8
ETHYLBENZENE	ND	1.5	ND	2.3	ND	1.5	ND	8.1	ND	1.5	ND	1.5	ND	1.5	ND	7.7	ND	7.7
HEXACHLOROBUTADIENE	ND	3.8	ND	5.6	ND	3.8	ND	19.8	ND	3.6	ND	3.6	ND	3.6	ND	19	ND	19
HEXANE	**1**	1.3	**1.6**	1.9	ND	1.3	ND	6.6	**2.9**	1.2	**1.5**	1.2	**2.3**	1.2	ND	6.3	ND	6.3
ISOPROPANOL	ND	4.4	ND	6.4	ND	4.4	ND	22.9	**2.4**	4.2	**2.1**	4.2	**17.8**	4.2	ND	21.9	ND	21.9
ISOPROPYLBENZENE	ND	4.4	ND	6.4	ND	4.4	ND	22.9	ND	4.2	ND	4.2	ND	4.2	ND	21.9	ND	21.9
M+P-XYLENES	ND	3.1	ND	4.5	ND	3.1	ND	16.2	ND	3	ND	3	**2.1**	3	ND	15.5	ND	15.5
METHYL ACETATE	ND	2.7	ND	4	ND	2.7	ND	14.1	ND	2.6	ND	2.6	ND	2.6	ND	13.5	ND	13.5
METHYL CYCLOHEXANE	ND	1.4	ND	2.1	ND	1.4	ND	7.5	ND	1.4	ND	1.4	ND	1.4	ND	7.1	ND	7.1
METHYL TERT-BUTYL ETHER	ND	6.4	ND	9.4	ND	6.4	ND	33.5	ND	6.2	ND	6.2	ND	6.2	ND	32.1	ND	32.1
METHYLENE CHLORIDE	ND	6.2	**9.1**	9.1	**8.2**	6.2	ND	32.3	**30.8**	5.9	**114**	5.9	**143**	5.9	**121**	30.9	**125**	30.9
O-XYLENE	ND	1.5	ND	2.3	ND	1.5	ND	8.1	ND	1.5	ND	1.5	ND	1.5	ND	7.7	ND	7.7
PENTAFLUOROETHYL CHLORIDE	ND	5.6	ND	8.2	**Rejected**	5.6	**Rejected**	29.4	**Rejected**	5.4	**Rejected**	5.4	ND	5.4	**Rejected**	28.1	**Rejected**	28.1
STYRENE	ND	1.5	ND	2.2	ND	1.5	ND	8	ND	1.5	**0.79**	1.5	ND	1.5	ND	7.6	ND	7.6
TETRACHLOROETHENE	**339**	1.2	**35.9**	1.8	**127**	1.2	**172**	6.3	**13.8**	1.2	**14**	1.2	**69.6**	1.2	**372**	6	**611**	6
TOLUENE	**0.77**	1.3	ND	2	**0.7**	1.3	ND	7	**0.97**	1.3	ND	1.3	ND	1.3	ND	6.7	ND	6.7
TRANS-1,2-DICHLOROETHENE	ND	1.4	ND	2.1	ND	1.4	ND	7.4	ND	1.4	ND	1.4	ND	1.4	ND	7.1	ND	7.1
TRANS-1,3-DICHLOROPROPENE	ND	1.6	ND	2.4	ND	4	ND	21.1	ND	3.9	ND	3.9	ND	1.5	ND	20.2	ND	20.2
TRICHLOROETHENE	**21.7**	0.96	**9.7**	1.4	**46.3**	0.96	**83.4**	5	**1.7**	0.92	**2.3**	0.92	**33.3**	0.92	**139**	4.8	**242**	4.8
TRICHLOROFLUOROMETHANE	**1.5**	2	**1.9**	2.9	**1.5**	2	ND	10.4	**1.5**	1.9	**1.5**	1.9	**1.6**	1.9	ND	10	ND	10
VINYL CHLORIDE	ND	0.46	ND	0.67	ND	0.46	ND	2.4	ND	0.44	ND	0.44	ND	0.44	ND	2.3	ND	2.3

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-3D_73_20170307		VP-3D_73_20170307DUP		VP-4_10_20170302		VP-4_20_20170302		VP-4_30_20170302		VP-4_5_20170302		LIJ-VP-7_10_20170226		LIJ-VP-7_20_20170226		LIJ-VP-7_40_20170226	
LAB ID	10381335016		10381335025		10381035010		10381035011		10381035012		10381035009		10380372016		10380372017		10380372018	
SAMPLE DATE	20170307		20170307		20170302		20170302		20170302		20170302		20170226		20170226		20170226	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate			VP-3D_73_20170307															
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	**5.9**	9.3	**5.6**	8.9	ND	1.9	ND	1.9	ND	2.1	ND	1.9	ND	1.9	ND	2.1	**2**	1.9
1,1,2,2-TETRACHLOROETHANE	ND	5.9	ND	5.6	ND	2.4	ND	2.4	ND	2.7	ND	2.4	ND	1.2	ND	1.3	ND	1.2
1,1,2-TRICHLOROETHANE	ND	4.6	ND	4.4	ND	0.96	ND	0.96	ND	1.1	ND	0.96	ND	0.92	ND	1.1	**9.2**	0.96
1,1,2-TRICHLOROTRIFLUOROETHANE	**32.5**	13.4	**31.8**	12.9	**1.4**	2.8	**2.4**	2.8	**4.6**	3.1	**0.9**	2.8	ND	2.7	**50**	3.1	**62.7**	2.8
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	26.7	ND	25.6	ND	5.6	ND	5.6	ND	6.1	ND	5.6	ND	5.3	ND	6.1	ND	5.6
1,1-DICHLOROETHANE	ND	6.9	ND	6.6	ND	1.4	ND	1.4	ND	1.6	ND	1.4	ND	1.4	ND	1.6	ND	1.4
1,1-DICHLOROETHENE	ND	6.8	ND	6.5	ND	1.4	ND	1.4	ND	1.6	ND	1.4	ND	1.4	ND	1.6	**2.4**	1.4
1,2,4-TRICHLOROBENZENE	ND	31.7	ND	30.3	ND	6.6	ND	6.6	ND	7.2	ND	6.6	ND	6.3	ND	7.2	ND	6.6
1,2,4-TRIMETHYLBENZENE	ND	8.4	ND	8	**1.3**	1.7	**1.5**	1.7	**1.6**	1.9	**1.4**	1.7	**1.5**	1.7	**1.3**	1.9	**1.1**	1.7
1,2-DIBROMO-3-CHLOROPROPANE	ND	41.2	ND	39.5	ND	8.6	ND	8.6	ND	9.4	ND	8.6	ND	8.2	ND	9.4	ND	8.6
1,2-DIBROMOETHANE	ND	13.1	ND	12.6	ND	2.7	ND	2.7	ND	3	ND	2.7	ND	2.6	ND	3	ND	2.7
1,2-DICHLOROBENZENE	ND	10.2	ND	9.8	ND	2.1	ND	2.1	ND	2.3	ND	2.1	ND	2	ND	2.3	ND	2.1
1,2-DICHLOROETHANE	ND	3.4	ND	3.3	ND	0.72	ND	0.72	ND	0.79	ND	0.72	ND	0.69	ND	0.79	**1**	0.72
1,2-DICHLOROPROPANE	ND	7.9	ND	7.6	ND	1.6	ND	1.6	ND	1.8	ND	1.6	ND	1.6	ND	1.8	ND	1.6
1,2-DICHLOROTETRAFLUOROETHANE	ND	11.9	ND	11.4	ND	2.5	ND	2.5	ND	2.7	ND	2.5	ND	2.4	ND	2.7	ND	2.5
1,3,5-TRIMETHYLBENZENE	ND	8.4	ND	8	ND	1.7	**1.3**	1.7	**1.8**	1.9	**1.3**	1.7	**0.79**	1.7	ND	1.9	**0.57**	1.7
1,3-BUTADIENE	ND	3.8	ND	3.6	ND	0.79	ND	0.79	ND	0.86	ND	0.79	ND	0.76	ND	0.86	ND	0.79
1,3-DICHLOROBENZENE	ND	10.2	ND	9.8	ND	2.1	ND	2.1	ND	2.3	ND	2.1	ND	2	ND	2.3	ND	2.1
1,4-DICHLOROBENZENE	ND	10.2	ND	9.8	ND	2.1	ND	2.1	ND	2.3	ND	2.1	ND	2	ND	2.3	ND	2.1
1,4-DIOXANE	ND	30.7	ND	29.5	ND	6.4	ND	6.4	ND	7	ND	6.4	ND	6.1	ND	7	ND	6.4
1-ETHYL-4-METHYL BENZENE	ND	8.4	ND	8	**1.7**	1.8	**1.5**	1.8	**1.7**	1.9	ND	1.8	ND	1.7	ND	1.9	ND	1.8
2-BUTANONE	ND	25.2	ND	24.2	ND	5.2	ND	5.2	ND	5.8	ND	5.2	**2.3**	5	ND	5.8	**2.1**	5.2
2-HEXANONE	ND	35	ND	33.5	ND	7.3	ND	7.3	ND	8	ND	7.3	ND	7	ND	8	ND	7.3
3-CHLOROPROPENE	ND	13.4	ND	12.8	ND	2.8	ND	2.8	ND	3.1	ND	2.8	ND	2.7	ND	3.1	ND	2.8
4-METHYL-2-PENTANONE	ND	35	ND	33.5	ND	7.3	ND	7.3	ND	8	ND	7.3	ND	7	ND	8	ND	7.3
ACETONE	**16.4**	20.3	**13.3**	19.4	**24.1**	4.2	**14.5**	4.2	**10.9**	4.6	**10.2**	4.2	**13**	10.1	ND	11.6	**16.4**	10.6
BENZENE	ND	2.7	ND	2.6	ND	0.57	ND	0.57	ND	0.62	ND	0.57	**0.49**	0.55	**0.84**	0.62	**2.5**	0.57
BROMODICHLOROMETHANE	ND	11.4	ND	10.9	ND	2.4	ND	2.4	ND	2.6	ND	2.4	ND	2.3	ND	2.6	ND	2.4
BROMOFORM	ND	17.6	ND	16.9	ND	9.2	ND	9.2	ND	10.1	ND	9.2	ND	8.8	ND	10.1	ND	9.2
BROMOMETHANE	ND	6.6	ND	6.4	ND	1.4	ND	1.4	ND	1.5	ND	1.4	ND	1.3	ND	1.5	ND	1.4
CARBON DISULFIDE	ND	5.3	ND	5.1	ND	1.1	**0.95**	1.1	ND	1.2	**1.2**	1.1	ND	1.1	ND	1.2	**1.1**	1.1
CARBON TETRACHLORIDE	ND	5.4	ND	5.2	ND	1.1	ND	1.1	ND	1.2	ND	1.1	ND	1.1	ND	1.2	**2.4**	1.1
CHLOROBENZENE	ND	7.9	ND	7.6	ND	1.6	ND	1.6	ND	1.8	ND	1.6	ND	1.6	ND	1.8	ND	1.6
CHLORODIBROMOMETHANE	ND	14.5	ND	13.9	ND	3	ND	3	ND	3.3	ND	3	ND	2.9	ND	3.3	ND	3
CHLORODIFLUOROMETHANE	**11.7**	6	**9.7**	5.8	**1.5**	1.3	ND	1.3	ND	1.4	ND	1.3	**35.3**	1.2	ND	1.4	ND	1.3
CHLOROETHANE	ND	4.5	ND	4.3	ND	0.94	ND	0.94	ND	1	ND	0.94	ND	0.91	ND	1	ND	0.94
CHLOROFORM	**5.7**	4.2	**5.3**	4	**1.6**	0.87	**0.65**	0.87	**0.82**	0.95	**0.57**	0.87	ND	0.83	**12**	0.95	**136**	0.87
CHLOROMETHANE	ND	3.5	ND	3.4	ND	0.74	ND	0.74	ND	0.81	ND	0.74	**1**	0.71	ND	0.81	ND	0.74
CIS-1,2-DICHLOROETHENE	**16.1**	6.8	**18.3**	6.5	ND	1.4	ND	1.4	**1.8**	1.6	ND	1.4	ND	1.4	**156**	1.6	**5200**	907
CIS-1,3-DICHLOROPROPENE	ND	7.7	ND	7.4	ND	1.6	ND	1.6	ND	1.8	ND	1.6	ND	1.5	ND	1.8	ND	1.6
CYCLOHEXANE	ND	5.9	ND	5.6	ND	1.2	ND	1.2	ND	1.3	ND	1.2	**0.81**	1.2	ND	1.3	**2.4**	1.2
DICHLORODIFLUOROMETHANE	**7.2**	8.5	**7.2**	8.1	ND	4.4	ND	4.4	ND	4.8	ND	4.4	**3.1**	1.7	**2.8**	1.9	**2.7**	1.8
ETHYLBENZENE	ND	7.4	ND	7.1	ND	1.5	ND	1.5	ND	1.7	ND	1.5	**3.3**	1.5	ND	1.7	**1.2**	1.5
HEXACHLOROBUTADIENE	ND	18.2	ND	17.5	ND	3.8	ND	3.8	ND	4.2	ND	3.8	ND	3.6	ND	4.2	ND	3.8
HEXANE	ND	6	ND	5.8	**2.6**	1.3	**1.6**	1.3	**1.1**	1.4	**2.7**	1.3	**1.7**	1.2	**0.95**	1.4	**3.7**	1.3
ISOPROPANOL	ND	21	ND	20.1	ND	4.4	**4.2**	4.4	**4.2**	4.8	ND	4.4	**39.6**	4.2	**4.2**	4.8	**7.4**	4.4
ISOPROPYLBENZENE	ND	21	ND	20.1	ND	4.4	ND	4.4	ND	4.8	ND	4.4	ND	4.2	ND	4.8	ND	4.4
M+P-XYLENES	ND	14.9	ND	14.2	ND	3.1	**2.2**	3.1	**2.5**	3.4	**1.7**	3.1	**11.2**	3	**1.5**	3.4	**1.8**	3.1
METHYL ACETATE	ND	12.9	ND	12.4	ND	2.7	ND	2.7	ND	3	ND	2.7	ND	2.6	ND	3	ND	2.7
METHYL CYCLOHEXANE	ND	6.9	ND	6.6	ND	1.4	ND	1.4	ND	1.6	ND	1.4	ND	1.4	ND	1.6	ND	1.4
METHYL TERT-BUTYL ETHER	ND	30.8	ND	29.5	ND	6.4	ND	6.4	ND	7	ND	6.4	ND	6.2	ND	7	ND	6.4
METHYLENE CHLORIDE	ND	29.7	ND	28.4	**20.1**	6.2	**10.8**	6.2	**4**	6.8	**34.2**	6.2	**14**	5.9	**2.8**	6.8	**1.5**	6.2
O-XYLENE	ND	7.4	ND	7.1	ND	1.5	ND	1.5	ND	1.7	ND	1.5	**3**	1.5	**0.95**	1.7	**0.84**	1.5
PENTAFLUOROETHYL CHLORIDE	**Rejected**	27	**Rejected**	25.8	ND	5.6	ND	5.6	ND	6.2	ND	5.6	ND	5.4	ND	6.2	ND	5.6
STYRENE	ND	7.3	ND	7	ND	1.5	**1.1**	1.5	**1.2**	1.7	**1.1**	1.5	ND	1.5	ND	1.7	ND	1.5
TETRACHLOROETHENE	**461**	5.8	**480**	5.5	**5.6**	1.2	**6.3**	1.2	**71.9**	1.3	**8**	1.2	**1.1**	1.2	**4570**	106	**13400**	772
TOLUENE	ND	6.5	ND	6.2	ND	1.3	**13.4**	1.3	**18.9**	1.5	**2.4**	1.3	**2.1**	1.3	**1**	1.5	**2.4**	1.3
TRANS-1,2-DICHLOROETHENE	ND	6.8	ND	6.5	ND	1.4	ND	1.4	ND	1.6	ND	1.4	ND	1.4	**3.8**	1.6	**48.4**	1.4
TRANS-1,3-DICHLOROPROPENE	ND	19.4	ND	18.6	**0.83**	1.6	ND	1.6	ND	1.8	ND	1.6	ND	1.5	ND	1.8	ND	1.6
TRICHLOROETHENE	**186**	4.6	**237**	4.4	**5.4**	0.96	**6**	0.96	**59.3**	1.1	**1.9**	0.96	ND	0.92	**3320**	84.5	**18000**	616
TRICHLOROFLUOROMETHANE	ND	9.6	ND	9.2	**1.3**	2	**1.4**	2	**1.4**	2.2	**1.3**	2	**1.5**	1.9	**2.5**	2.2	**3.4**	2
VINYL CHLORIDE	ND	2.2	ND	2.1	ND	0.46	ND	0.46	ND	0.5	ND	0.46	ND	0.44	ND	0.5	ND	0.46

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	LIJ-VP-7_5_20170226		LIJ-VP-7_50_20170226DUP		LIJ-VP-7_50_20170226		L15-VP-7_30_20170306		VP-8_10_20170221		VP-8_20_20170221		VP-8_5_20170221		VP-8D_53.5_20170221		VP-8D_62.5_20170221	
LAB ID	10380372015		10380372020		10380372019		10381335002		10379929012		10379929013		10379929011		10379929014		10379929015	
SAMPLE DATE	20170226		20170226		20170226		20170306		20170221		20170221		20170221		20170221		20170221	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate			LIJ-VP-7_5_20170226															
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	1.9	ND	1.9	**2**	1.9	**1.3**	2	ND	1.9	ND	2.5	ND	1.9	ND	2.7	**1**	1.9
1,1,2,2-TETRACHLOROETHANE	ND	1.2	ND	1.2	ND	1.2	ND	1.3	ND	1.2	ND	1.5	ND	1.2	ND	1.7	ND	1.2
1,1,2-TRICHLOROETHANE	ND	0.92	ND	0.96	ND	0.96	**2.9**	1	ND	0.92	ND	1.2	ND	0.92	**11.7**	1.3	**12.1**	0.96
1,1,2-TRICHLOROTRIFLUOROETHANE	ND	2.7	ND	2.8	**18.3**	2.8	**457**	2.9	ND	2.7	ND	3.5	ND	2.7	**308**	3.9	**402**	2.8
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.3	ND	5.6	ND	5.6	ND	5.8	ND	5.3	ND	7	ND	5.3	ND	7.8	ND	5.6
1,1-DICHLOROETHANE	ND	1.4	ND	1.4	ND	1.4	**34.2**	1.5	ND	1.4	ND	1.8	ND	1.4	ND	2	ND	1.4
1,1-DICHLOROETHENE	ND	1.4	ND	1.4	**0.74**	1.4	**7.3**	1.5	ND	1.4	ND	1.8	ND	1.4	**10.4**	2	**7**	1.4
1,2,4-TRICHLOROBENZENE	ND	6.3	ND	6.6	ND	6.6	ND	6.9	ND	6.3	ND	8.3	ND	6.3	ND	9.2	ND	6.6
1,2,4-TRIMETHYLBENZENE	**4.4**	1.7	**1.6**	1.7	**1.3**	1.7	ND	1.8	ND	1.7	ND	2.2	ND	1.7	**1.5**	2.4	ND	1.7
1,2-DIBROMO-3-CHLOROPROPANE	ND	8.2	ND	8.6	ND	8.6	ND	9	ND	8.2	ND	10.9	ND	8.2	ND	12	ND	8.6
1,2-DIBROMOETHANE	ND	2.6	ND	2.7	ND	2.7	ND	2.9	ND	2.6	ND	3.4	ND	2.6	ND	3.8	ND	2.7
1,2-DICHLOROBENZENE	ND	2	ND	2.1	ND	2.1	ND	2.2	ND	2	ND	2.7	ND	2	ND	3	ND	2.1
1,2-DICHLOROETHANE	ND	0.69	ND	0.72	ND	0.72	ND	0.75	ND	0.69	ND	0.91	ND	0.69	ND	1	ND	0.72
1,2-DICHLOROPROPANE	ND	1.6	ND	1.6	ND	1.6	ND	1.7	ND	1.6	ND	2.1	ND	1.6	ND	2.3	ND	1.6
1,2-DICHLOROTETRAFLUOROETHANE	ND	2.4	ND	2.5	ND	2.5	ND	2.6	ND	2.4	ND	3.1	ND	2.4	ND	3.5	ND	2.5
1,3,5-TRIMETHYLBENZENE	**2**	1.7	ND	1.7	ND	1.7	ND	1.8	ND	1.7	ND	2.2	ND	1.7	ND	2.4	ND	1.7
1,3-BUTADIENE	ND	0.76	ND	0.79	ND	0.79	ND	0.82	ND	0.76	ND	0.99	ND	0.76	ND	1.1	ND	0.79
1,3-DICHLOROBENZENE	ND	2	ND	2.1	ND	2.1	ND	2.2	ND	2	ND	2.7	ND	2	ND	3	ND	2.1
1,4-DICHLOROBENZENE	ND	2	ND	2.1	ND	2.1	ND	2.2	ND	2	ND	2.7	ND	2	ND	3	ND	2.1
1,4-DIOXANE	ND	6.1	ND	6.4	ND	6.4	ND	6.7	ND	6.1	ND	8.1	ND	6.1	ND	9	ND	6.4
1-ETHYL-4-METHYL BENZENE	**1.5**	1.7	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	2.2	ND	1.7	**1.6**	2.4	ND	1.8
2-BUTANONE	ND	5	**3**	5.2	**1**	5.2	ND	5.5	**2**	5	**6.3**	6.6	**6.1**	5	ND	7.4	ND	5.2
2-HEXANONE	ND	7	ND	7.3	ND	7.3	ND	7.6	ND	7	**1.6**	9.2	**1.6**	7	ND	10.2	**1**	7.3
3-CHLOROPROPENE	ND	2.7	ND	2.8	ND	2.8	ND	2.9	ND	2.7	ND	3.5	ND	2.7	ND	3.9	ND	2.8
4-METHYL-2-PENTANONE	ND	7	ND	7.3	ND	7.3	ND	7.6	ND	7	ND	9.2	ND	7	ND	10.2	ND	7.3
ACETONE	**60.4**	10.1	**19.8**	10.6	**5.3**	10.6	**2.9**	4.4	**9.2**	4.1	**19.5**	5.3	**23.7**	4.1	**217**	5.9	**15.2**	4.2
BENZENE	**2.4**	0.55	**0.52**	0.57	ND	0.57	**14.5**	0.59	ND	0.55	ND	0.72	**0.48**	0.55	**2.1**	0.8	**0.71**	0.57
BROMODICHLOROMETHANE	ND	2.3	ND	2.4	**1.3**	2.4	ND	2.5	ND	2.3	ND	3	ND	2.3	ND	3.3	ND	2.4
BROMOFORM	ND	8.8	ND	9.2	ND	9.2	ND	3.8	ND	3.5	ND	4.6	ND	3.5	ND	5.1	ND	3.7
BROMOMETHANE	ND	1.3	ND	1.4	ND	1.4	ND	1.4	ND	1.3	ND	1.7	ND	1.3	ND	1.9	ND	1.4
CARBON DISULFIDE	ND	1.1	ND	1.1	ND	1.1	**0.81**	1.2	ND	1.1	ND	1.4	ND	1.1	ND	1.5	ND	1.1
CARBON TETRACHLORIDE	ND	1.1	ND	1.1	**1.9**	1.1	**6.6**	1.2	ND	1.1	ND	1.4	ND	1.1	**1.4**	1.6	**0.83**	1.1
CHLOROBENZENE	ND	1.6	ND	1.6	ND	1.6	ND	1.7	ND	1.6	ND	2.1	ND	1.6	ND	2.3	ND	1.6
CHLORODIBROMOMETHANE	ND	2.9	ND	3	ND	3	ND	3.2	ND	2.9	ND	3.8	ND	2.9	ND	4.2	ND	3
CHLORODIFLUOROMETHANE	**24.9**	1.2	**37**	1.3	**14.7**	1.3	**75.3**	1.3	ND	1.2	**7.9**	1.6	ND	1.2	**142**	1.8	**171**	1.3
CHLOROETHANE	ND	0.91	ND	0.94	ND	0.94	ND	0.99	ND	0.91	ND	1.2	ND	0.91	ND	1.3	ND	0.94
CHLOROFORM	ND	0.83	ND	0.87	**19.4**	0.87	**2650**	5070	ND	0.83	ND	1.1	ND	0.83	**49.1**	1.2	**66.8**	0.87
CHLOROMETHANE	ND	0.71	**0.95**	0.74	ND	0.74	ND	0.77	**0.44**	0.71	ND	0.93	**0.89**	0.71	**1.8**	1	ND	0.74
CIS-1,2-DICHLOROETHENE	ND	1.4	ND	1.4	**210**	113	**59400**	8280	ND	1.4	ND	1.8	ND	1.4	**1270**	1270	**917**	454
CIS-1,3-DICHLOROPROPENE	ND	1.5	ND	1.6	ND	1.6	ND	1.7	ND	1.5	ND	2	ND	1.5	ND	2.3	ND	1.6
CYCLOHEXANE	**2.1**	1.2	**0.69**	1.2	ND	1.2	ND	1.3	ND	1.2	ND	1.5	ND	1.2	**1.8**	1.7	ND	1.2
DICHLORODIFLUOROMETHANE	**5.1**	1.7	**3**	1.8	**2.9**	1.8	**2.3**	1.8	**2.1**	1.7	**2.5**	2.2	**2.3**	1.7	**4.7**	2.5	**2.5**	1.8
ETHYLBENZENE	**3.2**	1.5	**3.3**	1.5	**0.91**	1.5	ND	1.6	ND	1.5	ND	1.9	ND	1.5	ND	2.2	ND	1.5
HEXACHLOROBUTADIENE	ND	3.6	ND	3.8	ND	3.8	ND	4	ND	3.6	ND	4.8	ND	3.6	ND	5.3	ND	3.8
HEXANE	**40.5**	1.2	**1.4**	1.3	**1.3**	1.3	**4.5**	1.3	ND	1.2	**1.2**	1.6	ND	1.2	**248**	1.8	**2.7**	1.3
ISOPROPANOL	**22.2**	4.2	**31.5**	4.4	**7.4**	4.4	ND	4.6	**1.1**	4.2	**2.7**	5.5	**5.7**	4.2	**8.2**	6.1	**2.2**	4.4
ISOPROPYLBENZENE	ND	4.2	ND	4.4	ND	4.4	ND	4.6	ND	4.2	ND	5.5	ND	4.2	ND	6.1	ND	4.4
M+P-XYLENES	**12.6**	3	**11.5**	3.1	**2.3**	3.1	ND	3.2	ND	3	ND	3.9	ND	3	**3.6**	4.3	ND	3.1
METHYL ACETATE	ND	2.6	ND	2.7	ND	2.7	ND	2.8	ND	2.6	ND	3.4	ND	2.6	ND	3.8	ND	2.7
METHYL CYCLOHEXANE	**1.1**	1.4	ND	1.4	ND	1.4	**1.5**	1.5	ND	1.4	ND	1.8	ND	1.4	ND	2	ND	1.4
METHYL TERT-BUTYL ETHER	ND	6.2	ND	6.4	**1.4**	6.4	ND	6.7	ND	6.2	ND	8.1	ND	6.2	ND	9	ND	6.4
METHYLENE CHLORIDE	**176**	159	**11.9**	6.2	**6.8**	6.2	**3.7**	6.5	**5.4**	5.9	**1.4**	7.8	**2.3**	5.9	**1370**	8.6	**20**	6.2
O-XYLENE	**3.9**	1.5	**3.1**	1.5	**1.1**	1.5	ND	1.6	ND	1.5	ND	1.9	ND	1.5	**1.4**	2.2	ND	1.5
PENTAFLUOROETHYL CHLORIDE	ND	5.4	ND	5.6	ND	5.6	ND	5.9	ND	5.4	ND	7.1	ND	5.4	ND	7.9	ND	5.6
STYRENE	ND	1.5	ND	1.5	ND	1.5	ND	1.6	ND	1.5	ND	1.9	**1.6**	1.5	ND	2.1	ND	1.5
TETRACHLOROETHENE	ND	1.2	ND	1.2	**2150**	96.5	**430000**	7040	ND	1.2	**2.3**	1.5	ND	1.2	**1980**	2160	**1460**	772
TOLUENE	**10.4**	1.3	**2.7**	1.3	**11.1**	1.3	**4**	1.4	ND	1.3	**1.3**	1.7	**0.95**	1.3	**9.2**	1.9	**4.6**	1.3
TRANS-1,2-DICHLOROETHENE	ND	1.4	ND	1.4	**3.5**	1.4	**129**	1.5	ND	1.4	ND	1.8	ND	1.4	**15.1**	2	**12.5**	1.4
TRANS-1,3-DICHLOROPROPENE	ND	1.5	ND	1.6	ND	1.6	ND	4.2	ND	1.5	ND	2	ND	1.5	ND	2.3	ND	1.6
TRICHLOROETHENE	ND	0.92	ND	0.96	**2440**	77	**650000**	5620	**0.76**	0.92	**18.3**	1.2	ND	0.92	**78900**	863	**32800**	308
TRICHLOROFLUOROMETHANE	**2.8**	1.9	**1.7**	2	**2.9**	2	**18.7**	2.1	**1.4**	1.9	**1.3**	2.5	**1.3**	1.9	**19**	2.8	**21.3**	2
VINYL CHLORIDE	ND	0.44	ND	0.46	ND	0.46	ND	0.48	ND	0.44	ND	0.57	ND	0.44	**0.57**	0.64	**0.53**	0.46

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-8D_62.5_20170221DUP		VP-8D_72.5_20170221		VP-9_10_20170223		VP-9_20_20170223		VP-9_30_20170223		VP-9_40_20170223		VP-9_50_20170223		VP-9_60_20170223		VP-9_60_20170223DUP	
LAB ID	10379929017		10379929016		10380193007		10380193008		10380193009		10380193010		10380193011		10380193012		10380193019	
SAMPLE DATE	20170221		20170221		20170223		20170223		20170223		20170223		20170223		20170223		20170223	
MATRIX	Air		Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate	VP-8D_62.5_20170221																VP-9_60_20170223	
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	2	**1**	2	**1.4**	2.1	**3.6**	2.1	**1.3**	2	ND	1.9	**6.7**	2	**9.7**	2	**11.8**	21.3
1,1,2,2-TETRACHLOROETHANE	ND	1.3	ND	1.3	ND	1.3	ND	1.3	ND	1.3	ND	1.2	ND	1.3	ND	1.3	ND	13.4
1,1,2-TRICHLOROETHANE	**5.5**	1	**7.1**	1	ND	1.1	**10.9**	1.1	**44.8**	1	**94.1**	0.96	**5.7**	1	**6.3**	1	ND	10.6
1,1,2-TRICHLOROTRIFLUOROETHANE	**181**	2.9	**433**	2.9	ND	3.1	**14.2**	3.1	**137**	2.9	**473000**	14300	**294**	2.9	**279**	2.9	**329**	30.7
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.8	ND	5.8	ND	6.1	ND	6.1	ND	5.8	ND	5.6	ND	5.8	ND	5.8	ND	61.1
1,1-DICHLOROETHANE	ND	1.5	ND	1.5	ND	1.6	ND	1.6	**1.9**	1.5	ND	1.4	**0.97**	1.5	ND	1.5	ND	15.7
1,1-DICHLOROETHENE	**3.1**	1.5	**4.6**	1.5	ND	1.6	ND	1.6	**3.8**	1.5	**2910**	7260	**12.4**	1.5	**12.4**	1.5	**13**	15.6
1,2,4-TRICHLOROBENZENE	ND	6.9	ND	6.9	ND	7.2	ND	7.2	ND	6.9	ND	6.6	ND	6.9	ND	6.9	ND	72.4
1,2,4-TRIMETHYLBENZENE	ND	1.8	ND	1.8	**1.2**	1.9	**3.5**	1.9	**1.2**	1.8	ND	1.7	**2.2**	1.8	**1.2**	1.8	ND	19.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	9	ND	9	ND	9.4	ND	9.4	ND	9	ND	8.6	ND	9	ND	9	ND	94.3
1,2-DIBROMOETHANE	ND	2.9	ND	2.9	ND	3	ND	3	ND	2.9	ND	2.7	ND	2.9	ND	2.9	ND	30
1,2-DICHLOROBENZENE	ND	2.2	ND	2.2	ND	2.3	ND	2.3	ND	2.2	**1.6**	2.1	**3.2**	2.2	**4.2**	2.2	**13.2**	23.4
1,2-DICHLOROETHANE	ND	0.75	ND	0.75	ND	0.79	ND	0.79	**2.3**	0.75	**17.5**	0.72	ND	0.75	**0.94**	0.75	ND	7.9
1,2-DICHLOROPROPANE	ND	1.7	ND	1.7	ND	1.8	ND	1.8	ND	1.7	ND	1.6	ND	1.7	ND	1.7	ND	18
1,2-DICHLOROTETRAFLUOROETHANE	ND	2.6	ND	2.6	ND	2.7	ND	2.7	ND	2.6	ND	2.5	ND	2.6	ND	2.6	ND	27.3
1,3,5-TRIMETHYLBENZENE	ND	1.8	ND	1.8	ND	1.9	**1.3**	1.9	ND	1.8	ND	1.7	**1.1**	1.8	ND	1.8	ND	19.2
1,3-BUTADIENE	ND	0.82	ND	0.82	ND	0.86	ND	0.86	ND	0.82	ND	0.79	ND	0.82	ND	0.82	ND	8.6
1,3-DICHLOROBENZENE	ND	2.2	ND	2.2	ND	2.3	ND	2.3	ND	2.2	ND	2.1	ND	2.2	ND	2.2	ND	23.4
1,4-DICHLOROBENZENE	ND	2.2	ND	2.2	ND	2.3	ND	2.3	ND	2.2	ND	2.1	ND	2.2	**1.1**	2.2	ND	23.4
1,4-DIOXANE	ND	6.7	ND	6.7	ND	7	ND	7	ND	6.7	ND	6.4	ND	6.7	ND	6.7	ND	70.3
1-ETHYL-4-METHYL BENZENE	ND	1.8	ND	1.8	**1.3**	1.9	**1.6**	1.9	**1.5**	1.8	**1.4**	1.8	**1.5**	1.8	**1.4**	1.8	ND	19.2
2-BUTANONE	ND	5.5	ND	5.5	ND	5.8	**6.9**	5.8	**3.4**	5.5	ND	5.2	ND	5.5	ND	5.5	ND	57.6
2-HEXANONE	ND	7.6	**1.3**	7.6	ND	8	ND	8	ND	7.6	ND	7.3	ND	7.6	ND	7.6	ND	79.9
3-CHLOROPROPENE	ND	2.9	ND	2.9	ND	3.1	ND	3.1	ND	2.9	ND	2.8	ND	2.9	ND	2.9	ND	30.5
4-METHYL-2-PENTANONE	ND	7.6	ND	7.6	ND	8	ND	8	ND	7.6	ND	7.3	ND	7.6	ND	7.6	ND	79.9
ACETONE	**7.8**	4.4	**18.1**	4.4	**12.6**	4.6	**98.7**	4.6	**15.3**	4.4	**11.6**	4.2	**30.5**	4.4	**11.9**	4.4	ND	46.3
BENZENE	**0.58**	0.59	**0.65**	0.59	**0.85**	0.62	**1.3**	0.62	**2.7**	0.59	**91.1**	0.57	**3.4**	0.59	**2.5**	0.59	ND	6.2
BROMODICHLOROMETHANE	ND	2.5	ND	2.5	ND	2.6	ND	2.6	**2**	2.5	ND	2.4	ND	2.5	ND	2.5	ND	26.1
BROMOFORM	ND	3.8	ND	3.8	ND	4	ND	4	ND	3.8	ND	3.7	ND	3.8	ND	3.8	ND	40.3
BROMOMETHANE	ND	1.4	ND	1.4	ND	1.5	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	15.2
CARBON DISULFIDE	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.1	**0.68**	1.2	**0.88**	1.2	ND	12.1
CARBON TETRACHLORIDE	ND	1.2	**0.67**	1.2	ND	1.2	ND	1.2	**3.8**	1.2	**32.4**	1.1	**1.2**	1.2	**1.1**	1.2	ND	12.3
CHLOROBENZENE	ND	1.7	**0.87**	1.7	ND	1.8	ND	1.8	ND	1.7	**1**	1.6	ND	1.7	ND	1.7	ND	18
CHLORODIBROMOMETHANE	ND	3.2	ND	3.2	ND	3.3	ND	3.3	ND	3.2	ND	3	ND	3.2	ND	3.2	ND	33.2
CHLORODIFLUOROMETHANE	**76.4**	1.3	**168**	1.3	ND	1.4	**94.1**	1.4	ND	1.3	**58**	1.3	ND	1.3	ND	1.3	ND	13.8
CHLOROETHANE	ND	0.99	ND	0.99	ND	1	ND	1	ND	0.99	ND	0.94	ND	0.99	ND	0.99	ND	10.4
CHLOROFORM	**27.7**	0.91	**56.2**	0.91	**2.4**	0.95	**9.3**	0.95	**95.8**	0.91	**3740**	4440	**36.4**	0.91	**40.2**	0.91	**44.9**	9.5
CHLOROMETHANE	**0.68**	0.77	ND	0.77	ND	0.81	**1.4**	0.81	**0.42**	0.77	ND	0.74	ND	0.77	ND	0.77	ND	8.1
CIS-1,2-DICHLOROETHENE	**217**	1.5	**586**	474	ND	1.6	**63.5**	1.6	**1810**	237	**342000**	7260	**1830**	237	**1210**	237	**732**	15.6
CIS-1,3-DICHLOROPROPENE	ND	1.7	ND	1.7	ND	1.8	ND	1.8	ND	1.7	ND	1.6	ND	1.7	ND	1.7	ND	17.7
CYCLOHEXANE	ND	1.3	ND	1.3	**2.9**	1.3	**1.8**	1.3	**1.2**	1.3	ND	1.2	**5**	1.3	ND	1.3	ND	13.4
DICHLORODIFLUOROMETHANE	**2.5**	1.8	**2.1**	1.8	**2.1**	1.9	**2.3**	1.9	**2.2**	1.8	ND	1.8	**2.3**	1.8	**2.8**	1.8	ND	19.4
ETHYLBENZENE	ND	1.6	ND	1.6	**5.8**	1.7	**3.7**	1.7	**2.9**	1.6	**2.9**	1.5	**12.1**	1.6	**3.3**	1.6	ND	16.9
HEXACHLOROBUTADIENE	ND	4	ND	4	ND	4.2	ND	4.2	ND	4	ND	3.8	ND	4	ND	4	ND	41.6
HEXANE	ND	1.3	ND	1.3	**1.2**	1.4	**2.9**	1.4	**3.4**	1.3	**7.6**	1.3	**4.1**	1.3	**2.2**	1.3	ND	13.8
ISOPROPANOL	**2.7**	4.6	**1.5**	4.6	ND	4.8	**138**	4.8	ND	4.6	ND	4.4	**9.3**	4.6	ND	4.6	ND	48
ISOPROPYLBENZENE	ND	4.6	ND	4.6	ND	4.8	ND	4.8	ND	4.6	ND	4.4	ND	4.6	ND	4.6	ND	48
M+P-XYLENES	ND	3.2	ND	3.2	**23**	3.4	**15.6**	3.4	**11.7**	3.2	**7.4**	3.1	**44.5**	3.2	**12.8**	3.2	ND	34
METHYL ACETATE	ND	2.8	ND	2.8	ND	3	ND	3	ND	2.8	ND	2.7	ND	2.8	ND	2.8	ND	29.6
METHYL CYCLOHEXANE	ND	1.5	ND	1.5	**1.1**	1.6	**0.97**	1.6	ND	1.5	**11.8**	1.4	**2.8**	1.5	**0.97**	1.5	ND	15.7
METHYL TERT-BUTYL ETHER	ND	6.7	**0.71**	6.7	ND	7	**3.6**	7	**9.2**	6.7	ND	6.4	ND	6.7	ND	6.7	ND	70.4
METHYLENE CHLORIDE	**4.2**	6.5	ND	6.5	**8.7**	6.8	**12.3**	6.8	**32.4**	6.5	ND	6.2	**6**	6.5	**5.4**	6.5	ND	67.8
O-XYLENE	ND	1.6	ND	1.6	**5.4**	1.7	**3.8**	1.7	**2.8**	1.6	**2.2**	1.5	**10.7**	1.6	**3**	1.6	ND	16.9
PENTAFLUOROETHYL CHLORIDE	ND	5.9	ND	5.9	ND	6.2	ND	6.2	ND	5.9	ND	5.6	ND	5.9	ND	5.9	ND	61.6
STYRENE	ND	1.6	ND	1.6	ND	1.7	ND	1.7	ND	1.6	ND	1.5	**1**	1.6	ND	1.6	ND	16.7
TETRACHLOROETHENE	**647**	404	**998**	808	**13.4**	1.3	**340**	1.3	**2380**	202	**183000**	6170	**3870**	202	**4410**	202	**3100**	13.2
TOLUENE	**0.86**	1.4	**2.7**	1.4	**16.6**	1.5	**20.1**	1.5	**14.4**	1.4	**17.8**	1.3	**96**	1.4	**18.8**	1.4	**21**	14.8
TRANS-1,2-DICHLOROETHENE	**5.3**	1.5	**7.5**	1.5	ND	1.6	ND	1.6	**5.4**	1.5	**377**	1.4	**15.1**	1.5	**12.7**	1.5	**14.6**	15.6
TRANS-1,3-DICHLOROPROPENE	ND	1.7	ND	1.7	ND	1.8	ND	1.8	ND	1.7	ND	1.6	ND	1.7	ND	1.7	ND	17.7
TRICHLOROETHENE	**13800**	161	**13200**	322	**108**	1.1	**638**	28.3	**15300**	161	**1310000**	4930	**26400**	161	**26000**	161	**85700**	1350
TRICHLOROFLUOROMETHANE	**9.3**	2.1	**19.8**	2.1	**1.1**	2.2	**1.3**	2.2	**1.9**	2.1	**140**	2	**3.8**	2.1	**4.1**	2.1	ND	21.9
VINYL CHLORIDE	ND	0.48	**0.56**	0.48	ND	0.5	ND	0.5	ND	0.48	**76.2**	0.46	ND	0.48	**1**	0.48	ND	5

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 4-1: Nested Well Soil Vapor Analytical Results
Former Unisys Facility, Lake Success, NY

SAMPLE ID	VP-NYSDEC-5_10_20170223		VP-NYSDEC-5_20_20170223		VP-NYSDEC-5_30_20170223		VP-NYSDEC-5_40_20170223		VP-NYSDEC-5_5_20170223		VP-NYSDEC-5_50_20170223	
LAB ID	10380193002		10380193003		10380193004		10380193005		10380193001		10380193006	
SAMPLE DATE	20170223		20170223		20170223		20170223		20170223		20170223	
MATRIX	Air		Air		Air		Air		Air		Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate												
OV (UG/M3)	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	1.9	ND	2.1	ND	2.2	**1.2**	2	ND	1.9	**1.5**	2
1,1,2,2-TETRACHLOROETHANE	ND	1.2	ND	1.3	ND	1.4	ND	1.3	ND	1.2	ND	1.3
1,1,2-TRICHLOROETHANE	ND	0.96	ND	1.1	**4.2**	1.1	**26.4**	1	ND	0.96	**162**	1
1,1,2-TRICHLOROTRIFLUOROETHANE	ND	2.8	**30**	3.1	**26500**	1030	**50300**	15000	ND	2.8	**239**	2.9
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	ND	5.6	ND	6.1	ND	6.4	ND	5.8	ND	5.6	ND	5.8
1,1-DICHLOROETHANE	ND	1.4	ND	1.6	**2.4**	1.6	**7.5**	1.5	ND	1.4	ND	1.5
1,1-DICHLOROETHENE	ND	1.4	ND	1.6	**5.3**	1.6	**7.6**	1.5	ND	1.4	**27.8**	1.5
1,2,4-TRICHLOROBENZENE	ND	6.6	ND	7.2	ND	7.6	ND	6.9	ND	6.6	ND	6.9
1,2,4-TRIMETHYLBENZENE	**1.2**	1.7	**1.5**	1.9	**1.6**	2	ND	1.8	**2.1**	1.7	ND	1.8
1,2-DIBROMO-3-CHLOROPROPANE	ND	8.6	ND	9.4	ND	9.9	ND	9	ND	8.6	ND	9
1,2-DIBROMOETHANE	ND	2.7	ND	3	ND	3.1	ND	2.9	ND	2.7	ND	2.9
1,2-DICHLOROBENZENE	ND	2.1	ND	2.3	ND	2.5	ND	2.2	ND	2.1	**3.7**	2.2
1,2-DICHLOROETHANE	ND	0.72	ND	0.79	ND	0.82	ND	0.75	ND	0.72	**1.8**	0.75
1,2-DICHLOROPROPANE	ND	1.6	ND	1.8	ND	1.9	ND	1.7	ND	1.6	ND	1.7
1,2-DICHLOROTETRAFLUOROETHANE	ND	2.5	ND	2.7	ND	2.9	ND	2.6	ND	2.5	ND	2.6
1,3,5-TRIMETHYLBENZENE	ND	1.7	ND	1.9	ND	2	ND	1.8	ND	1.7	ND	1.8
1,3-BUTADIENE	ND	0.79	ND	0.86	ND	0.9	ND	0.82	ND	0.79	ND	0.82
1,3-DICHLOROBENZENE	ND	2.1	ND	2.3	ND	2.5	ND	2.2	ND	2.1	ND	2.2
1,4-DICHLOROBENZENE	ND	2.1	ND	2.3	ND	2.5	ND	2.2	ND	2.1	**1.2**	2.2
1,4-DIOXANE	ND	6.4	ND	7	ND	7.4	ND	6.7	ND	6.4	ND	6.7
1-ETHYL-4-METHYL BENZENE	**1.3**	1.8	**1.3**	1.9	**1.6**	2	**1.2**	1.8	**1.4**	1.8	**1.3**	1.8
2-BUTANONE	ND	5.2	**3.2**	5.8	**3.8**	6	ND	5.5	**14**	5.2	ND	5.5
2-HEXANONE	ND	7.3	ND	8	ND	8.4	ND	7.6	ND	7.3	ND	7.6
3-CHLOROPROPENE	ND	2.8	ND	3.1	ND	3.2	ND	2.9	ND	2.8	ND	2.9
4-METHYL-2-PENTANONE	ND	7.3	ND	8	ND	8.4	ND	7.6	ND	7.3	ND	7.6
ACETONE	**34.2**	4.2	**18.8**	4.6	**30.7**	4.9	**11**	4.4	**74**	4.2	**9.1**	4.4
BENZENE	**1.4**	0.57	**1.1**	0.62	ND	0.65	**1.7**	0.59	**1.5**	0.57	ND	0.59
BROMODICHLOROMETHANE	ND	2.4	ND	2.6	ND	2.7	ND	2.5	ND	2.4	ND	2.5
BROMOFORM	ND	3.7	ND	4	ND	4.2	ND	3.8	ND	3.7	ND	3.8
BROMOMETHANE	ND	1.4	ND	1.5	ND	1.6	ND	1.4	ND	1.4	ND	1.4
CARBON DISULFIDE	**0.74**	1.1	ND	1.2	ND	1.3	ND	1.2	ND	1.1	ND	1.2
CARBON TETRACHLORIDE	ND	1.1	**4.6**	1.2	**56.6**	1.3	**16.6**	1.2	ND	1.1	**3.2**	1.2
CHLOROBENZENE	ND	1.6	ND	1.8	ND	1.9	ND	1.7	ND	1.6	**0.94**	1.7
CHLORODIBROMOMETHANE	ND	3	ND	3.3	ND	3.5	ND	3.2	ND	3	ND	3.2
CHLORODIFLUOROMETHANE	**15.1**	1.3	**218**	1.4	**151**	1.4	**170**	1.3	ND	1.3	**77.3**	1.3
CHLOROETHANE	ND	0.94	ND	1	ND	1.1	ND	0.99	ND	0.94	ND	0.99
CHLOROFORM	ND	0.87	**8**	0.95	**212**	1	**134**	0.91	ND	0.87	**99.5**	0.91
CHLOROMETHANE	ND	0.74	ND	0.81	ND	0.84	ND	0.77	**1.1**	0.74	ND	0.77
CIS-1,2-DICHLOROETHENE	ND	1.4	**14.4**	1.6	**992**	521	**14600**	7590	ND	1.4	**550**	1.5
CIS-1,3-DICHLOROPROPENE	ND	1.6	ND	1.8	ND	1.8	ND	1.7	ND	1.6	ND	1.7
CYCLOHEXANE	**4.7**	1.2	**1.3**	1.3	**7.4**	1.4	**4.5**	1.3	**13.6**	1.2	**1.7**	1.3
DICHLORODIFLUOROMETHANE	**2.8**	1.8	**2.8**	1.9	**7.9**	2	ND	1.8	**2.1**	1.8	**1.9**	1.8
ETHYLBENZENE	**1.9**	1.5	**2.1**	1.7	**15.9**	1.8	**3.3**	1.6	**32.4**	1.5	**4.6**	1.6
HEXACHLOROBUTADIENE	ND	3.8	ND	4.2	ND	4.4	ND	4	ND	3.8	ND	4
HEXANE	**13.9**	1.3	**1.9**	1.4	**2.3**	1.4	**1.6**	1.3	**2.4**	1.3	**0.83**	1.3
ISOPROPANOL	**6.1**	4.4	**4.2**	4.8	**5.3**	5	ND	4.6	**13**	4.4	ND	4.6
ISOPROPYLBENZENE	ND	4.4	ND	4.8	ND	5	ND	4.6	ND	4.4	ND	4.6
M+P-XYLENES	**7.8**	3.1	**9**	3.4	**59.1**	3.6	**12.2**	3.2	**118**	3.1	**17**	3.2
METHYL ACETATE	ND	2.7	ND	3	**17.9**	3.1	**14.8**	2.8	ND	2.7	ND	2.8
METHYL CYCLOHEXANE	ND	1.4	**0.96**	1.6	**3.6**	1.6	**2.9**	1.5	**8.4**	1.4	**0.95**	1.5
METHYL TERT-BUTYL ETHER	ND	6.4	ND	7	ND	7.4	ND	6.7	ND	6.4	ND	6.7
METHYLENE CHLORIDE	**83.9**	6.2	ND	6.8	**149**	7.1	**124**	6.5	**6.1**	6.2	**3.5**	6.5
O-XYLENE	**1.8**	1.5	**2.1**	1.7	**13.7**	1.8	**2.8**	1.6	**29.1**	1.5	**3.9**	1.6
PENTAFLUOROETHYL CHLORIDE	ND	5.6	ND	6.2	ND	6.5	ND	5.9	ND	5.6	ND	5.9
STYRENE	**0.85**	1.5	ND	1.7	**1.1**	1.7	ND	1.6	**1.8**	1.5	ND	1.6
TETRACHLOROETHENE	**1.8**	1.2	**98.1**	1.3	**8450**	443	**59300**	6460	**4.7**	1.2	**6860**	6460
TOLUENE	**26.5**	1.3	**101**	1.5	**31.1**	1.5	**13.3**	1.4	**69.3**	1.3	**12.1**	1.4
TRANS-1,2-DICHLOROETHENE	ND	1.4	**1.6**	1.6	**39.5**	1.6	**142**	1.5	ND	1.4	**27.8**	1.5
TRANS-1,3-DICHLOROPROPENE	ND	1.6	ND	1.8	ND	1.8	ND	1.7	ND	1.6	ND	1.7
TRICHLOROETHENE	**9.6**	0.96	**1720**	21.1	**100000**	354	**564000**	5150	**1.2**	0.96	**848000**	5150
TRICHLOROFLUOROMETHANE	**1.6**	2	**1.8**	2.2	**39.9**	2.3	**33.8**	2.1	**1.2**	2	**8.4**	2.1
VINYL CHLORIDE	ND	0.46	ND	0.5	ND	0.52	ND	0.48	ND	0.46	**1.3**	0.48

ND - Not Detected
All results are in ug/m3
"Rejected" - Refer to Appendix B

Table 5-1
Indoor Air and Sub-Slab Sampling Results
LA Fitness

Client ID		**AA_20170215**		**IA-12_20170215**		**IA-C1_20170215**		**SS-C1_20170215**		**SS-C1_20170215DUP**		**IA-C20_20170215**		**IA-C20_20170215DUP**		**SS-C20_20170215**	
Lab Sample ID	**NYSDOH**	**10379458016**		**10379458013**		**10379458007**		**10379458001**		**10379458015**		**10379458008**		**10379458014**		**10379458002**	
Sampling Date	**Indoor Air**	**02/15/2017**		**02/15/2017**		**02/15/2017**		**02/15/2017**		**02/15/2017**		**02/15/2017**		**02/15/2017**		**02/15/2017**	
Matrix	**Guidance Value**	**Air**		**Air**		**Air**		**Air**		**Air**		**Air**		**Air**		**Air**	
Unit	**ug/m3**	**ug/m3**		**ug/m3**		**ug/m3**		**ug/m3**		**ug/m3**		**ug/m3**		**ug/m3**		**ug/m3**	
Duplicate Of										**SS-C1_20170215**				**IA-C20_20170215**			
OV (UG/M3)		Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	-	ND	1.8	ND	2	ND	2.2	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2
1,1,2,2-TETRACHLOROETHANE	-	ND	1.1	ND	1.3	ND	1.4	ND	1.3	ND	1.3	ND	1.3	ND	1.3	ND	1.3
1,1,2-TRICHLOROETHANE	-	ND	0.89	ND	1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1
1,1,2-TRICHLOROTRIFLUOROETHANE	-	ND	2.6	ND	2.9	ND	3.2	ND	3.1	ND	3.1	ND	3.1	ND	3.1	**109**	2.9
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	-	ND	5.1	ND	5.8	ND	6.4	ND	6.1	ND	6.1	ND	6.1	ND	6.1	ND	5.8
1,1-DICHLOROETHANE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5
1,1-DICHLOROETHENE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5
1,2,4-TRICHLOROBENZENE	-	ND	6.1	ND	6.9	ND	7.6	ND	7.2	**10.5**	7.2	ND	7.2	ND	7.2	ND	6.9
1,2,4-TRIMETHYLBENZENE	-	ND	1.6	ND	1.8	**1.6 J**	2	ND	1.9	ND	1.9	**0.98 J**	1.9	ND	1.9	**1.1 J**	1.8
1,2-DIBROMO-3-CHLOROPROPANE	-	ND	7.9	ND	9	ND	9.9	ND	9.4	ND	9.4	ND	9.4	ND	9.4	ND	9
1,2-DIBROMOETHANE	-	ND	2.5	ND	2.9	ND	3.1	ND	3	ND	3	ND	3	ND	3	ND	2.9
1,2-DICHLOROBENZENE	-	ND	2	ND	2.2	ND	2.5	ND	2.3	ND	2.3	ND	2.3	ND	2.3	ND	2.2
1,2-DICHLOROETHANE	-	ND	0.66	ND	0.75	ND	0.82	ND	0.79	ND	0.79	ND	0.79	ND	0.79	ND	0.75
1,2-DICHLOROPROPANE	-	ND	1.5	ND	1.7	ND	1.9	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7
1,2-DICHLOROTETRAFLUOROETHANE	-	ND	2.3	ND	2.6	ND	2.9	ND	2.7	ND	2.7	ND	2.7	ND	2.7	ND	2.6
1,3,5-TRIMETHYLBENZENE	-	ND	1.6	ND	1.8	ND	2	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.8
1,3-BUTADIENE	-	ND	0.72	ND	0.82	ND	0.9	ND	0.86	ND	0.86	ND	0.86	ND	0.86	ND	0.82
1,3-DICHLOROBENZENE	-	ND	2	ND	2.2	ND	2.5	ND	2.3	ND	2.3	ND	2.3	ND	2.3	ND	2.2
1,4-DICHLOROBENZENE	-	ND	2	ND	2.2	ND	2.5	ND	2.3	ND	2.3	ND	2.3	ND	2.3	ND	2.2
1,4-DIOXANE	-	ND	5.9	ND	6.7	ND	7.4	ND	7	ND	7	ND	7	ND	7	ND	6.7
1-ETHYL-4-METHYL BENZENE	-	**1 J**	1.6	ND	1.8	ND	2	ND	1.9	ND	1.9	**1.2 J**	1.9	**1.2 J**	1.9	ND	1.8
2-BUTANONE	-	ND	4.8	ND	5.5	**4.9 J**	6	**9.2**	5.8	ND	5.8	**2.6 J**	5.8	**3.6 J**	5.8	**3.6 J**	5.5
2-HEXANONE	-	ND	6.7	ND	7.6	ND	8.4	**1.7 J**	8	ND	8	ND	8	ND	8	**0.83 J**	7.6
3-CHLOROPROPENE	-	ND	2.6	ND	2.9	ND	3.2	ND	3.1	ND	3.1	ND	3.1	ND	3.1	ND	2.9
4-METHYL-2-PENTANONE	-	ND	6.7	ND	7.6	ND	8.4	ND	8	ND	8	ND	8	ND	8	ND	7.6
ACETONE	-	**10.2**	3.9	**13.1**	4.4	**48.7**	4.9	**24 J**	4.6	**7.9 J**	4.6	**32.4**	4.6	**33.5**	4.6	**15**	4.4
BENZENE	-	**1.5**	0.52	**0.53 J**	0.59	**1.6**	0.65	ND	0.62	ND	0.62	**1.5**	0.62	**1.5**	0.62	ND	0.59
BROMODICHLOROMETHANE	-	ND	2.2	**2.1 J**	2.5	ND	2.7	ND	2.6	ND	2.6	ND	2.6	ND	2.6	ND	2.5
BROMOFORM	-	ND	3.4	ND	3.8	ND	4.2	ND	4	ND	4	ND	4	ND	4	ND	3.8
BROMOMETHANE	-	ND	1.3	ND	1.4	ND	1.6	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.4
CARBON DISULFIDE	-	ND	1	ND	1.2	ND	1.3	ND	1.2	ND	1.2	ND	1.2	ND	1.2	0.66 J	1.2
CARBON TETRACHLORIDE	-	ND	1	**0.68 J**	1.2	ND	1.3	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2
CHLOROBENZENE	-	ND	1.5	ND	1.7	ND	1.9	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7
CHLORODIBROMOMETHANE	-	ND	2.8	ND	3.2	ND	3.5	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.2
CHLORODIFLUOROMETHANE	-	ND	1.2	ND	1.3	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.3
CHLOROETHANE	-	ND	0.87	ND	0.99	ND	1.1	ND	1	ND	1	ND	1	ND	1	ND	0.99
CHLOROFORM	-	ND	0.8	**98.7**	0.91	**3.3**	1	ND	0.95	ND	0.95	**3.9**	0.95	**3.3**	0.95	**0.62 J**	0.91
CHLOROMETHANE	-	ND	0.68	ND	0.77	**1.2**	0.84	ND	0.81	ND	0.81	**1.1**	0.81	**0.83**	0.81	ND	0.77
CIS-1,2-DICHLOROETHENE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5
CIS-1,3-DICHLOROPROPENE	-	ND	1.5	ND	1.7	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7
CYCLOHEXANE	-	**0.62 J**	1.1	ND	1.3	ND	1.4	ND	1.3	ND	1.3	**0.71 J**	1.3	ND	1.3	ND	1.3
DICHLORODIFLUOROMETHANE	-	**2.2**	1.6	ND	1.8	**2.1**	2	**2.2**	1.9	**2.1**	1.9	**2**	1.9	**2.1**	1.9	**2**	1.8
ETHYLBENZENE	-	ND	1.4	ND	1.6	ND	1.8	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.6
HEXACHLOROBUTADIENE	-	ND	3.5	ND	4	ND	4.4	ND	4.2	**13.8 J**	4.2	ND	4.2	ND	4.2	ND	4
HEXANE	-	**1.5**	1.2	**1.1 J**	1.3	**2**	1.4	**3.2**	1.4	ND	1.4	**1.4**	1.4	**1.7**	1.4	ND	1.3
ISOPROPANOL	-	**2.5 J**	4	**2.6 J**	4.6	**86.4**	5	**5.8**	4.8	**4.7 J**	4.8	**93.6**	4.8	**89.6**	4.8	**2.3 J**	4.6
ISOPROPYLBENZENE	-	ND	4	ND	4.6	ND	5	ND	4.8	ND	4.8	ND	4.8	ND	4.8	ND	4.6
M+P-XYLENES	-	**1.8 J**	2.8	ND	3.2	**2.6 J**	3.6	ND	3.4	ND	3.4	**2 J**	3.4	**2.1 J**	3.4	ND	3.2
METHYL ACETATE	-	ND	2.5	ND	2.8	ND	3.1	ND	3	ND	3	ND	3	ND	3	ND	2.8
METHYL CYCLOHEXANE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5
METHYL TERT-BUTYL ETHER	-	ND	5.9	ND	6.7	ND	7.4	ND	7	ND	7	ND	7	ND	7	ND	6.7
METHYLENE CHLORIDE	60	**4.6 J**	5.7	**5.2 J**	6.5	**5.3 J**	7.1	**20.6 J**	6.8	ND	6.8	**3.3 J**	6.8	**5.2 J**	6.8	**4.7 J**	6.5
O-XYLENE	-	ND	1.4	ND	1.6	ND	1.8	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.6
PENTAFLUOROETHYL CHLORIDE	-	ND	5.2	ND	5.9	ND	6.5	ND	6.2	ND	6.2	ND	6.2	ND	6.2	ND	5.9
STYRENE	-	ND	1.4	ND	1.6	ND	1.7	ND	1.7	ND	1.7	**0.84 J**	1.7	**0.85 J**	1.7	ND	1.6
TETRACHLOROETHENE	30	**1.2**	1.1	**8.4**	1.3	**1.3 J**	1.4	**8.9**	1.3	**9**	1.3	**1.3 J**	1.3	**1.2 J**	1.3	**643**	25.2
TOLUENE	-	**2.8**	1.2	**1.6**	1.4	**3.2**	1.5	**1.5 J**	1.5	**0.83 J**	1.5	**3.2**	1.5	**3**	1.5	ND	1.4
TRANS-1,2-DICHLOROETHENE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5
TRANS-1,3-DICHLOROPROPENE	-	ND	1.5	ND	1.7	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7
TRICHLOROETHENE	2	ND	0.89	**4**	1	ND	1.1	**80.6**	1.1	80.1	1.1	ND	1.1	ND	1.1	**2.3**	1
TRICHLOROFLUOROMETHANE	-	**1.3 J**	1.8	**1.3 J**	2.1	**1.3 J**	2.3	**1.3 J**	2.2	1.3 J	2.2	1.1 J	2.2	**1.1 J**	2.2	**2 J**	2.1
VINYL CHLORIDE	-	ND	0.42	ND	0.48	ND	0.52	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.48

MRL - Minimum reporting limit
ND - Not detected
J - Value detected below the minimum detection limit
Bold values indicate compound was detected
Highlighted values indicate that compound was detected above NYSDOH air guidance value

Table 5-1
Indoor Air and Sub-Slab Sampling Results
LA Fitness

Client ID		**IA-D13_20170215**		**SS-D13_20170215**		**IA-D7_20170215**		**SS-D7_20170215**		**IA-E16_20170215**		**SS-E16_20170215**		**IA-G18_20170215**		**SS-G18_20170215**	
Lab Sample ID	**NYSDOH**	**10379458005**		**10379458011**		**10379458010**		**10379458004**		**10379458009**		**10379458003**		**10379458012**		**10379458006**	
Sampling Date	**Indoor Air**	**02/15/2017**		**02/15/2017**		**02/15/2017**		**02/15/2017**		**02/15/2017**		**02/15/2017**		**02/15/2017**		**02/15/2017**	
Matrix	**Guidance Value**	**Air**		**Air**		**Air**		**Air**		**Air**		**Air**		**Air**		**Air**	
Unit	**ug/m3**	**ug/m3**		**ug/m3**		**ug/m3**		**ug/m3**		**ug/m3**		**ug/m3**		**ug/m3**		**ug/m3**	
Duplicate Of																	
OV (UG/M3)		Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	-	ND	2.1	ND	2.4	ND	2.2	7.2	2.1	ND	2.2	ND	2.1	ND	2	ND	2
1,1,2,2-TETRACHLOROETHANE	-	ND	1.3	ND	1.5	ND	1.4	ND	1.3	ND	1.4	ND	1.3	ND	1.3	ND	1.3
1,1,2-TRICHLOROETHANE	-	ND	1.1	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1	ND	1
1,1,2-TRICHLOROTRIFLUOROETHANE	-	ND	3.1	**4.9**	3.4	ND	3.2	**9.3**	3.1	ND	3.2	**3.9**	3.1	ND	2.9	**23.3**	2.9
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	-	ND	6.1	ND	6.7	ND	6.4	ND	6.1	ND	6.4	ND	6.1	ND	5.8	ND	5.8
1,1-DICHLOROETHANE	-	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
1,1-DICHLOROETHENE	-	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
1,2,4-TRICHLOROBENZENE	-	ND	7.2	ND	8	ND	7.6	ND	7.2	ND	7.6	ND	7.2	ND	6.9	ND	6.9
1,2,4-TRIMETHYLBENZENE	-	ND	1.9	**1.4 J**	2.1	**1.4 J**	2	**4.4**	1.9	ND	2	**1.2 J**	1.9	ND	1.8	**2.3**	1.8
1,2-DIBROMO-3-CHLOROPROPANE	-	ND	9.4	ND	10.4	ND	9.9	ND	9.4	ND	9.9	ND	9.4	ND	9	ND	9
1,2-DIBROMOETHANE	-	ND	3	ND	3.3	ND	3.1	ND	3	ND	3.1	ND	3	ND	2.9	ND	2.9
1,2-DICHLOROBENZENE	-	ND	2.3	ND	2.6	ND	2.5	ND	2.3	ND	2.5	ND	2.3	ND	2.2	ND	2.2
1,2-DICHLOROETHANE	-	ND	0.79	ND	0.87	ND	0.82	ND	0.79	ND	0.82	ND	0.79	ND	0.75	ND	0.75
1,2-DICHLOROPROPANE	-	ND	1.8	ND	2	ND	1.9	ND	1.8	ND	1.9	ND	1.8	ND	1.7	ND	1.7
1,2-DICHLOROTETRAFLUOROETHANE	-	ND	2.7	ND	3	ND	2.9	ND	2.7	ND	2.9	ND	2.7	ND	2.6	ND	2.6
1,3,5-TRIMETHYLBENZENE	-	ND	1.9	ND	2.1	ND	2	**1.3 J**	1.9	ND	2	ND	1.9	ND	1.8	ND	1.8
1,3-BUTADIENE	-	ND	0.86	ND	0.95	ND	0.9	ND	0.86	ND	0.9	ND	0.86	ND	0.82	ND	0.82
1,3-DICHLOROBENZENE	-	ND	2.3	ND	2.6	ND	2.5	ND	2.3	ND	2.5	ND	2.3	ND	2.2	ND	2.2
1,4-DICHLOROBENZENE	-	ND	2.3	ND	2.6	ND	2.5	ND	2.3	ND	2.5	ND	2.3	ND	2.2	ND	2.2
1,4-DIOXANE	-	ND	7	ND	7.8	ND	7.4	ND	7	ND	7.4	ND	7	ND	6.7	ND	6.7
1-ETHYL-4-METHYL BENZENE	-	ND	1.9	**1.3 J**	2.1	**1.3 J**	2	**1.7 J**	1.9	ND	2	ND	1.9	**1.2 J**	1.8	**1.3 J**	1.8
2-BUTANONE	-	**3.5 J**	5.8	ND	6.4	**5.7 J**	6	**4.5 J**	5.8	**6 J**	6	**3.6 J**	5.8	ND	5.5	**4.3 J**	5.5
2-HEXANONE	-	ND	8	ND	8.8	ND	8.4	**1.2 J**	8	**1 J**	8.4	ND	8	ND	7.6	**0.84 J**	7.6
3-CHLOROPROPENE	-	ND	3.1	ND	3.4	ND	3.2	ND	3.1	ND	3.2	ND	3.1	ND	2.9	ND	2.9
4-METHYL-2-PENTANONE	-	ND	8	ND	8.8	ND	8.4	ND	8	ND	8.4	ND	8	ND	7.6	**0.93 J**	7.6
ACETONE	-	**38.7**	4.6	**48.5**	5.1	**52.9**	4.9	**22.7**	4.6	**42.3**	4.9	**16.5**	4.6	**32**	4.4	**28.1**	4.4
BENZENE	-	**1.5**	0.62	**6.8**	0.69	**1.5**	0.65	**0.41 J**	0.62	**1.7**	0.65	**1**	0.62	**1.5**	0.59	**0.96**	0.59
BROMODICHLOROMETHANE	-	ND	2.6	ND	2.9	ND	2.7	ND	2.6	ND	2.7	ND	2.6	ND	2.5	ND	2.5
BROMOFORM	-	ND	4	ND	4.5	ND	4.2	ND	4	ND	4.2	ND	4	ND	3.8	ND	3.8
BROMOMETHANE	-	ND	1.5	ND	1.7	ND	1.6	ND	1.5	ND	1.6	ND	1.5	ND	1.4	ND	1.4
CARBON DISULFIDE	-	ND	1.2	ND	1.3	ND	1.3	**1.1 J**	1.2	ND	1.3	**0.91 J**	1.2	ND	1.2	**0.71 J**	1.2
CARBON TETRACHLORIDE	-	ND	1.2	ND	1.4	ND	1.3	ND	1.2	ND	1.3	ND	1.2	ND	1.2	**1.3**	1.2
CHLOROBENZENE	-	ND	1.8	ND	2	ND	1.9	ND	1.8	ND	1.9	ND	1.8	ND	1.7	ND	1.7
CHLORODIBROMOMETHANE	-	ND	3.3	ND	3.7	ND	3.5	ND	3.3	ND	3.5	ND	3.3	ND	3.2	ND	3.2
CHLORODIFLUOROMETHANE	-	ND	1.4	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.3	**0.86 J**	1.3
CHLOROETHANE	-	ND	1	ND	1.1	ND	1.1	ND	1	ND	1.1	ND	1	ND	0.99	ND	0.99
CHLOROFORM	-	**3.9**	0.95	**8.1**	1.1	**3.5**	1	**6.6**	0.95	**3.9**	1	**2.3**	0.95	**4.2**	0.91	**39.4**	0.91
CHLOROMETHANE	-	**1.2**	0.81	ND	0.89	ND	0.84	**0.71 J**	0.81	**1.2**	0.84	ND	0.81	**1.2**	0.77	ND	0.77
CIS-1,2-DICHLOROETHENE	-	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
CIS-1,3-DICHLOROPROPENE	-	ND	1.8	ND	2	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.7
CYCLOHEXANE	-	ND	1.3	**0.82 J**	1.5	**0.75 J**	1.4	ND	1.3	**1.1 J**	1.4	**1 J**	1.3	**0.72 J**	1.3	ND	1.3
DICHLORODIFLUOROMETHANE	-	**2**	1.9	**2.1 J**	2.1	**2.1**	2	**2.1**	1.9	**2.2**	2	**2**	1.9	**2.1**	1.8	**2.4**	1.8
ETHYLBENZENE	-	ND	1.7	ND	1.9	ND	1.8	**0.91 J**	1.7	ND	1.8	ND	1.7	ND	1.6	**0.87 J**	1.6
HEXACHLOROBUTADIENE	-	ND	4.2	ND	4.6	ND	4.4	ND	4.2	ND	4.4	ND	4.2	ND	4	ND	4
HEXANE	-	**1.7**	1.4	**1.4 J**	1.5	ND	1.4	ND	1.4	**2.4**	1.4	**1.7**	1.4	**1.4**	1.3	**13**	1.3
ISOPROPANOL	-	**96.4**	4.8	**66.3**	5.3	**96.7**	5	**9.8**	4.8	**102**	5	**17.9**	4.8	**107**	4.6	**40.9**	4.6
ISOPROPYLBENZENE	-	ND	4.8	ND	5.3	ND	5	ND	4.8	ND	5	ND	4.8	ND	4.6	ND	4.6
M+P-XYLENES	-	**2 J**	3.4	**3.3 J**	3.8	**2.7 J**	3.6	**3.5**	3.4	**2.3 J**	3.6	**2.3 J**	3.4	**2.2 J**	3.2	**3.3**	3.2
METHYL ACETATE	-	ND	3	ND	3.3	ND	3.1	ND	3	ND	3.1	ND	3	ND	2.8	ND	2.8
METHYL CYCLOHEXANE	-	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
METHYL TERT-BUTYL ETHER	-	ND	7	ND	7.8	ND	7.4	ND	7	ND	7.4	ND	7	ND	6.7	ND	6.7
METHYLENE CHLORIDE	60	**4.6 J**	6.8	**4 J**	7.5	**7.1 J**	7.1	**4.9 J**	6.8	**5.9 J**	7.1	**7.9 J**	6.8	**4.5 J**	6.5	**81.3 J**	6.5
O-XYLENE	-	ND	1.7	**1.5 J**	1.9	**0.9 J**	1.8	**1.3 J**	1.7	ND	1.8	**1.1 J**	1.7	ND	1.6	**1.5 J**	1.6
PENTAFLUOROETHYL CHLORIDE	-	ND	6.2	ND	6.8	ND	6.5	ND	6.2	ND	6.5	ND	6.2	ND	5.9	ND	5.9
STYRENE	-	ND	1.7	**1 J**	1.8	**0.93 J**	1.7	**0.83 J**	1.7	**0.92 J**	1.7	**0.88 J**	1.7	**0.81 J**	1.6	**1 J**	1.6
TETRACHLOROETHENE	30	**1.3 J**	1.3	**49.3**	1.5	**1.2 J**	1.4	**14.8**	1.3	**1.3 J**	1.4	**644**	35.5	**1.1 J**	1.3	**22.5**	1.3
TOLUENE	-	**3.1**	1.5	**6.5**	1.6	**3.3**	1.5	**2.5**	1.5	**3.5**	1.5	**3**	1.5	**3.3**	1.4	**4.1**	1.4
TRANS-1,2-DICHLOROETHENE	-	ND	1.6	**3.1**	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
TRANS-1,3-DICHLOROPROPENE	-	ND	1.8	ND	2	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.7
TRICHLOROETHENE	2	ND	1.1	**5**	1.2	ND	1.1	**90.9**	1.1	ND	1.1	**3.4**	1.1	ND	1	**2.7**	1
TRICHLOROFLUOROMETHANE	-	**1.2 J**	2.2	**2.5**	2.4	**1.2 J**	2.3	**3.6**	2.2	**1.2 J**	2.3	**1.5 J**	2.2	**1.2 J**	2.1	**3.2**	2.1
VINYL CHLORIDE	-	ND	0.5	ND	0.55	ND	0.52	ND	0.5	ND	0.52	ND	0.5	ND	0.48	ND	0.48

MRL - Minimum reporting limit
ND - Not detected
J - Value detected below the minimum detection limit
Bold values indicate compound was detected
Highlighted values indicate that compound was detected above NYSDOH air guidance value

Table 5-2
2017 LA Fitness Results
Updated NYSDOH Vapor Intrusion Guidance
Sampled February 15, 2017

Sample ID	AA_20170215		IA-12_20170215	
OV (UG/M3)	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	ND	1.8	ND	2
1,1-DICHLOROETHENE	ND	1.3	ND	1.5
CARBON TETRACHLORIDE	ND	1	0.68 J	1.2
CIS-1,2-DICHLOROETHENE	ND	1.3	ND	1.5
METHYLENE CHLORIDE	4.6 J	5.7	5.2 J	6.5
TETRACHLOROETHENE	1.2	1.1	8.4	1.3
TRICHLOROETHENE	ND	0.89	4	1
VINYL CHLORIDE	ND	0.42	ND	0.48
Matrix A				
Matrix B				
Matric C				
NFA - No Further Action				
All Results Are ug/m3				

Table 5-2
2017 LA Fitness Results
Updated NYSDOH Vapor Intrusion Guidance
Sampled February 15, 2017

Sample ID	IA-C1_20170215		SS-C1_20170215		Matrices Result	SS-C1_20170215DUP		Matrices Result
OV (UG/M3)	Result	MRL	Result	MRL		Result	MRL	
1,1,1-TRICHLOROETHANE	ND	2.2	ND	2.1	NFA	ND	2.1	NFA
1,1-DICHLOROETHENE	ND	1.6	ND	1.6	NFA	ND	1.6	NFA
CARBON TETRACHLORIDE	ND	1.3	ND	1.2	NFA	ND	1.2	NFA
CIS-1,2-DICHLOROETHENE	ND	1.6	ND	1.6	NFA	ND	1.6	NFA
METHYLENE CHLORIDE	5.3 J	7.1	20.6 J	6.8	NFA	ND	6.8	NFA
TETRACHLOROETHENE	1.3 J	1.4	8.9	1.3	NFA	9	1.3	NFA
TRICHLOROETHENE	ND	1.1	80.6	1.1	***Mitigate***	80.1	1.1	***Mitigate***
VINYL CHLORIDE	ND	0.52	ND	0.5	NFA	ND	0.5	NFA

Matrix A
Matrix B
Matric C
NFA - No Further Action
All Results Are ug/m3

Table 5-2
2017 LA Fitness Results
Updated NYSDOH Vapor Intrusion Guidance
Sampled February 15, 2017

Sample ID	SS-C20_20170215		IA-C20_20170215		Matrices Result	IA-C20_20170215DUP		Matrices Result
OV (UG/M3)	Result	MRL	Result	MRL		Result	MRL	
1,1,1-TRICHLOROETHANE	ND	2	ND	2.1	NFA	ND	2.1	NFA
1,1-DICHLOROETHENE	ND	1.5	ND	1.6	NFA	ND	1.6	NFA
CARBON TETRACHLORIDE	ND	1.2	ND	1.2	NFA	ND	1.2	NFA
CIS-1,2-DICHLOROETHENE	ND	1.5	ND	1.6	NFA	ND	1.6	NFA
METHYLENE CHLORIDE	4.7 J	6.5	3.3 J	6.8	NFA	5.2 J	6.8	NFA
TETRACHLOROETHENE	643	25.2	1.3 J	1.3	NFA	1.2 J	1.3	NFA
TRICHLOROETHENE	2.3	1	ND	1.1	NFA	ND	1.1	NFA
VINYL CHLORIDE	ND	0.48	ND	0.5	NFA	ND	0.5	NFA

Matrix A
Matrix B
Matric C
NFA - No Further Action
All Results Are ug/m3

Table 5-2
2017 LA Fitness Results
Updated NYSDOH Vapor Intrusion Guidance
Sampled February 15, 2017

Sample ID	IA-D13_20170215		SS-D13_20170215		Matrices Result
OV (UG/M3)	Result	MRL	Result	MRL	
1,1,1-TRICHLOROETHANE	ND	2.1	ND	2.4	NFA
1,1-DICHLOROETHENE	ND	1.6	ND	1.7	NFA
CARBON TETRACHLORIDE	ND	1.2	ND	1.4	NFA
CIS-1,2-DICHLOROETHENE	ND	1.6	ND	1.7	NFA
METHYLENE CHLORIDE	4.6 J	6.8	4 J	7.5	NFA
TETRACHLOROETHENE	1.3 J	1.3	49.3	1.5	NFA
TRICHLOROETHENE	ND	1.1	5	1.2	NFA
VINYL CHLORIDE	ND	0.5	ND	0.55	NFA

Matrix A
Matrix B
Matric C
NFA - No Further Action
All Results Are ug/m3

Table 5-2
2017 LA Fitness Results
Updated NYSDOH Vapor Intrusion Guidance
Sampled February 15, 2017

Sample ID	IA-D7_20170215		SS-D7_20170215		Matrices Result
OV (UG/M3)	Result	MRL	Result	MRL	
1,1,1-TRICHLOROETHANE	ND	2.2	7.2	2.1	NFA
1,1-DICHLOROETHENE	ND	1.6	ND	1.6	NFA
CARBON TETRACHLORIDE	ND	1.3	ND	1.2	NFA
CIS-1,2-DICHLOROETHENE	ND	1.6	ND	1.6	NFA
METHYLENE CHLORIDE	7.1 J	7.1	4.9 J	6.8	NFA
TETRACHLOROETHENE	1.2 J	1.4	14.8	1.3	NFA
TRICHLOROETHENE	ND	1.1	90.9	1.1	***Mitigate***
VINYL CHLORIDE	ND	0.52	ND	0.5	NFA

Matrix A
Matrix B
Matric C
NFA - No Further Action
All Results Are ug/m3

Table 5-2
2017 LA Fitness Results
Updated NYSDOH Vapor Intrusion Guidance
Sampled February 15, 2017

Sample ID	IA-E16_20170215		SS-E16_20170215		Matrices Result
OV (UG/M3)	Result	MRL	Result	MRL	
1,1,1-TRICHLOROETHANE	ND	2.2	ND	2.1	NFA
1,1-DICHLOROETHENE	ND	1.6	ND	1.6	NFA
CARBON TETRACHLORIDE	ND	1.3	ND	1.2	NFA
CIS-1,2-DICHLOROETHENE	ND	1.6	ND	1.6	NFA
METHYLENE CHLORIDE	5.9 J	7.1	7.9 J	6.8	NFA
TETRACHLOROETHENE	1.3 J	1.4	644	35.5	NFA
TRICHLOROETHENE	ND	1.1	3.4	1.1	NFA
VINYL CHLORIDE	ND	0.52	ND	0.5	NFA
Matrix A					
Matrix B					
Matric C					
NFA - No Further Action					
All Results Are ug/m3					

Table 5-2
2017 LA Fitness Results
Updated NYSDOH Vapor Intrusion Guidance
Sampled February 15, 2017

Sample ID	IA-G18_20170215		SS-G18_20170215		Matrices Result
OV (UG/M3)	Result	MRL	Result	MRL	
1,1,1-TRICHLOROETHANE	ND	2	ND	2	NFA
1,1-DICHLOROETHENE	ND	1.5	ND	1.5	NFA
CARBON TETRACHLORIDE	ND	1.2	1.3	1.2	NFA
CIS-1,2-DICHLOROETHENE	ND	1.5	ND	1.5	NFA
METHYLENE CHLORIDE	4.5 J	6.5	81.3 J	6.5	NFA
TETRACHLOROETHENE	1.1 J	1.3	22.5	1.3	NFA
TRICHLOROETHENE	ND	1	2.7	1	NFA
VINYL CHLORIDE	ND	0.48	ND	0.48	NFA
Matrix A					
Matrix B					
Matric C					
NFA - No Further Action					
All Results Are ug/m3					

APPENDIX A—SOIL VAPOR AND VAPOR INTRUSION MONITORING WORK PLAN 2017, FORMER UNISYS FACILITY – GREAT NECK, LAKE SUCCESS, NEW YORK

SOIL VAPOR AND VAPOR INTRUSION MONITORING WORK PLAN 2017

Former Unisys Facility – Great Neck
1111 Marcus Avenue
Lake Success, New York 11020

NYSDEC Site ID# 130045

Prepared for:

Lockheed Martin Corporation
7000 Calmont Avenue, Suite 300 MS 2010
Fort Worth, Texas 76116

Prepared by:

One Salem Square
295 Route 22E, Suite 104E
Whitehouse Station, NJ 08889

Submitted To:
Division of Environmental Remediation
New York State Department of Environmental Conservation, Region 1
SUNY Stony Brook
50 Circle Road
Stony Brook, New York 11790

February 2017

TABLE OF CONTENTS

CONTENTS

Acronyms……iv

1. Introduction.....1-1

2. Site Description and Site History.....2-1

2.1. Site History.....2-1

2.2. Site Background.....2-2

2.3. Previous Vapor Intrusion Sampling.....2-4

2.3.1. iPark Building.....2-4

2.3.2. LA Fitness.....2-6

3. Sampling Objectives and Methodologies.....3-1

3.1. Soil Vapor Sampling (iPark Building).....3-1

3.1.1. Sampling of Existing Nested Multi-Level Sampling Ports.....3-1

3.2. Sub-Slab and Indoor Air Sampling for the LA Fitness Building.....3-2

3.2.1. Sampling Locations.....3-3

3.3. Sample Collection and Leak Testing.....3-4

4. Laboratory Analysis and Data Validation 4-1

5. Reporting 5-1

5.1. Updated Sampling Results Tables 5-1

5.2. Letters to property owners and tenants 5-1

5.3. Annual Monitoring Report – iPark and LA Fitness 5-2

5.4. Data Presentation 5-4

6. Data Analysis and Recommendations 6-1

7. References 7-1

TABLES

Table 1: Summary of Soil Vapor Samples from Existing Nested Wells
Table 2: Summary of Soil Vapor Samples for the LA Fitness Facility
Table 3: Sample Collection Log
Table 4: Summary of Soil Vapor Chemicals of Concern to be Analyzed by TO-15 Methods

FIGURES

Figure 1: Site Location Map
Figure 2: Nested Soil Vapor Sampling Locations – iPark
Figure 3: Paired Sub-Slab Vapor and Indoor Air Sampling Locations – LA Fitness

APPENDICES

Appendix A: Lockheed Martin Corporation Standard Operating Procedures (SOP)
SOP-25 – Sub-slab Soil Vapor Sampling
SOP-26 – Indoor and Ambient Air Sampling
SOP-27 – Helium Tracer Gas Leak Test for Sub-Slab Soil Vapor Sampling
SOP-28 – Soil Vapor Sampling from Nested Well Sampling Ports
Appendix B: Communication from NYSDEC Regarding 2016 LA Fitness Sampling Results

Acronyms

µg/m^3	micrograms per cubic meter
CVOCs	chlorinated volatile organic compounds
DUSR	Data Usability Reports
EPA	Environmental Protection Agency
ft. bgs.	feet below ground surface
HASP	Health and Safety Plan
IA	indoor air
in. WC	inches of water column
iPark	iPark, Lake Success, LLP
Lockheed Martin	Lockheed Martin Corporation
Loral	Loral Corporation
MLE	multiple lines of evidence
Northwell	Northwell Health
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	tetrachloroethene
PID	photoionization detector
Site	former Unisys Facility
SOP	Standard Operating Procedure
Sperry	Sperry Gyroscope Company
SSDS	Sub-Slab Depressurization System
SSV	sub-slab vapor
SV	soil vapor
SVE	Soil Vapor Extraction System
TCE	trichloroethene
TestAmerica	TestAmerica, Inc.
Tetra Tech	Tetra Tech, Inc.
USEPA	United States Environmental Protection Agency

VI	Vapor Intrusion
VOCs	volatile organic compounds

1. Introduction

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc. (Tetra Tech) has prepared this 2017 Soil Vapor (SV) Sampling Work Plan for the annual soil vapor monitoring program for the former Unisys Facility in Lake Success, New York. The Work Plan defines the scope of work proposed for 2017 and details the proposed sampling locations, sampling methodologies, standard operating procedures, sample analysis, and reporting requirements.

The scope of work detailed in this plan includes collection of soil vapor samples from nested well locations inside and around the iPark building and pair sub-slab and indoor air sampling in the LA Fitness building. The purpose of sampling the nested wells is to: (1) evaluate changes in volatile organic compound (VOC) concentrations in soil vapor at various depths; and (2) assess the lateral and vertical distribution of soil vapor contamination that may continue to exist beneath and outside the iPark building. The data will be used to assess the historic and current effectiveness of the Sub-Slab Depressurization System (SSDS) and the OU-1 Soil Vapor Extraction System (SVE). Lockheed Martin discontinued indoor air monitoring in the main building in 2015 based on the New York State Department of Health Vapor Intrusion (VI) Guidance (NYSDOH 2006) which states that *"Generally, air monitoring is not recommended if the [mitigation] system has been installed properly and is maintaining a vacuum beneath the entire slab."* The purpose of the LA Fitness paired sub-slab and indoor air sampling is to: (1) assess the effectiveness of the passive venting system in reducing VOC concentrations in the unused partial basement, (2) identify current VOC concentrations in sub-slab soil vapor and in indoor air, and (3) evaluate the potential for vapor intrusion into indoor air.

2. Site Description and Site History

2.1. Site History

The Lockheed Martin former Unisys Facility ("the Site") was an active manufacturing facility from its startup in 1941 until approximately 1995, when most manufacturing activities ceased. Some activities, including limited assembly, integration, prototype development and testing, and/or engineering and administrative duties continued at the Site through early 1999. The former Unisys Facility was originally designed and built by the United States government and was operated under a contract with the Sperry Gyroscope Company (Sperry) from 1941 to 1951. In 1951, the property was sold to Sperry, which merged with Burroughs in 1986 to form the Unisys Corporation. In 1995, Loral Corporation (Loral) acquired the assets of Unisys Defense Systems, a division of Unisys Corporation. In early 1996, Loral's electronics and systems integration businesses were purchased by Lockheed Martin. The property was sold by Lockheed Martin in early 2000 to iPark, Lake Success, LLP (iPark), which converted the buildings to commercial rental space. The current owners of the property are WRD Marcus Avenue A, LLC c/o Waterstone Development, LLC and Marcus Avenue Unit Two Owner, LLC.

The Former Unisys Facility occupies 90.5 acres that includes the main (iPark) building and three smaller buildings (former foundry referred to herein as the LA Fitness building, Power House, and the former maintenance garage, now the SSDS facility) located south of the iPark building. The iPark building houses several tenants that use the lease space for office areas, a small cafeteria, an outpatient hospital, distribution centers, and maintenance spaces. The former foundry has been converted to a fitness center operated by LA Fitness. The site previously included 3.5 acres that were sold to the Town of North Hempstead, which are now used as soccer fields. The Power House continues to serve as the power distribution center. The majority of the former maintenance garage has been converted into the active SSDS process building, while the remainder is leased for vehicle

storage. The remaining portions of the property consist of paved areas (parking lots), transformer stations, and three storm water retention basins. A general layout of the Site, including major tenants occupying the first floor of the iPark building is shown on Figure 2. Figure 3 shows the LA Fitness building along with monitoring locations highlighted.

In the past, the facility was used to manufacture a wide range of defense-related products including navigational systems for United States Navy nuclear submarines (Trident Program), navigational sonar equipment, radar tracking systems (North Warning System), and weather radar systems (NEXRAD). Past manufacturing processes included the following: metal casting, chemical etching, degreasing, plating, painting, metal finishing, machining, electronic circuit board manufacturing, and assembly. Chemicals used during manufacturing at the plant included halogenated and non-halogenated hydrocarbon solvents, cutting oils, paints, fuel oils, acids, caustics, and inorganic plating compounds. On May 1, 1991 New York State Department of Environmental Conservation (NYSDEC) designated the former Unisys Facility as a Class 2 site (No. 130045) in the registry of Inactive Hazardous Waste Disposal Sites in New York State.

2.2. Site Background

In response to NYSDOHs final VI Guidance (NYSDOH, 2006), Lockheed Martin conducted an initial indoor air and sub-slab vapor investigation in 2007 (ARCADIS, 2008). In March 2008, a temporary SSDS (referred to as the eastern SSDS) consisting of two extraction points (now referred to as EP-E17 & EP-E18 in the site-wide SSDS) was installed as an interim measure in the former Allstate space located in the northeast corner of the iPark building to address trichloroethene (TCE) concentrations above the NYSDOH indoor air guidance levels and elevated levels of other VOCs in the sub-slab vapor. In November 2008, a second temporary SSDS (referred to as the central SSDS) consisting of two extraction points (now referred to as EP-O11 and EP-K11 in the site-wide SSDS) was installed in the south-central portion of the iPark building (current Antech space) to address carbon tetrachloride concentrations above NYSDOH indoor air guidance

levels and other elevated VOCs in the sub-slab vapor. Subsequent to these temporary SSDS installations, sub-slab vapor and indoor air sampling events conducted between 2009 and 2013 demonstrated that VOC concentrations in indoor air were reduced to below the NYSDOH indoor guidance levels, and carbon tetrachloride, tetrachloroethene (PCE), and TCE concentrations in sub-slab vapor were either decreasing or remained constant.

To mitigate potential pathways for sub-slab VOC migration into indoor air across the entire iPark building and the garage, Lockheed Martin prepared a Vapor Mitigation Conceptual Design (ARCADIS, 2010) to construct a site-wide SSDS. Subsequent to NYSDEC approval of Vapor Mitigation Conceptual Design, the site-wide SSDS was constructed between August 2011 and June 2013. The temporary central and eastern SSDSs were connected to the site-wide SSDS during construction, and the site-wide SSDS has been in continuous operation since September 2013. The design goal of the SSDS is to maintain a minimum of -0.004 inches of water column (in. WC) differential pressure between the sub-slab and the indoor air. The step tests conducted on selected SSDS extraction points and the 2014 annual nested well sampling results indicated that the SSDS extraction wells influence up to approximately 25 feet below ground surface (ft. bgs.) (CDM Smith, April 2014).

A passive SSDS was constructed in 2010 at the LA Fitness building. The system consists of a vent pipe and an air inlet pipe, which penetrates the limited basement area along the south/central portion of this building and extends to the roof. A wind turbine located on the top of the exhaust pipe allows for suctioning of the basement air, thereby exhausting the basement air to the building exterior and introducing fresh air into the basement through the air inlet pipe. The inlet pipe also extends to the roof.

2.3. Previous Vapor Intrusion Sampling

2.3.1. iPark Building

Lockheed Martin has performed multiple vapor sampling events between 2007 and 2016 since the publication of NYSDOH final VI Guidance (NYSDOH, 2006), and has presented the results to NYSDEC and NYSDOH. A summary of these sampling events and VI reports is presented below:

- March 2007: 19 sub-slab soil gas samples, 27 indoor air samples, and four ambient air samples were tested and results were submitted to NYSDEC in the Vapor Intrusion Sampling Report and Sampling Work Plan (ARCADIS, 2008).

- October 2007: 4 sub-slab soil gas samples were tested and results were included in the Vapor Intrusion Sampling Report and Sampling Work Plan (ARCADIS, 2008).

- December 2007: 25 sub-slab soil gas samples, 33 indoor air samples, and four ambient air samples were tested and results were included in the Vapor Intrusion Sampling Report and Sampling Work Plan (ARCADIS, 2008).

- January 2008: 13 indoor air samples were tested and results were submitted to NYSDEC in the Vapor Intrusion Sampling Report (ARCADIS, 2009a).

- March 2008: 42 sub-slab soil gas samples and 13 indoor air samples were tested and results were included in the Vapor Intrusion Sampling Report (ARCADIS, 2009a).

- September – November 2008: 52 sub-slab soil gas samples and 24 indoor air samples were tested and results were included in the Vapor Intrusion Sampling Report (ARCADIS, 2009a).

- January 2009: 46 sub-slab soil gas samples, 38 indoor air samples, six ambient air samples, and seven duplicate samples were tested.

- March 2009: 22 sub-slab soil gas samples, 28 indoor air samples, six ambient air samples, and four duplicate samples were tested. The results from January and March

2009 were submitted to NYSDEC in Perched Water and Vapor Intrusion Source Investigation (ARCADIS, 2009b).

- December 2009 – January 2010: 85 sub-slab soil vapor samples, 89 indoor air samples, 17 ambient air samples, and 18 duplicate samples were tested.

- March 2010: 12 sub-slab soil vapor samples, 18 indoor air samples, four ambient air samples, and three duplicate samples were tested. The results for December 2009 to January 2010 and March 2010 events were reported to NYSDEC in Vapor Intrusion Sampling Report (ARCADIS, 2011a).

- March 2011: 68 sub-slab soil vapor samples, 68 indoor air samples, eight ambient air samples, and 16 duplicate samples were tested, and the results were reported to NYSDEC in Vapor Intrusion Sampling Report (ARCADIS, 2011b).

- February – March 2012: 76 sub-slab soil vapor samples, 95 indoor air samples, 13 ambient air samples, and 18 duplicate samples were tested, and the results were summarized in Vapor Intrusion Sampling Report (ARCADIS, 2012).

- February – March 2013: 79 sub-slab soil vapor samples, 98 indoor air samples, 20 ambient air samples, and 19 duplicate samples were tested, and the results were summarized in Vapor Intrusion Sampling Report (ARCADIS, 2013).

- February – March 2014: 61 sub-slab vapor samples, 97 indoor air samples, 13 ambient air samples, and 18 duplicate samples were tested, and the results were presented in the 2014 Soil Vapor/Vapor Intrusion Report (URS 2014a).

- February 11 - March 31, 2015: A total of 108 soil vapor samples were collected from 19 nested wells located inside and outside of the main building and the results were presented in the 2015 Soil Vapor/Vapor Intrusion Report (URS 2015a).

- February 2 - February 28, 2016: A total of 108 soil vapor samples were collected from 19 nested wells, located inside and outside of the iPark building and the results were presented in the 2016 Soil Vapor/Vapor Intrusion Report (Tetra Tech 2016b).

2.3.2. LA Fitness

Vapor intrusion investigations began in 2007 at the LA Fitness building with a collection of SSV and IA samples. In 2008, the LA Fitness basement was entered to collect basement SSV samples, and identify if any vapor intrusion mitigation was needed. The 2008 basement vapor sampling results indicated the presence of low levels of VOCs in the basement space (URS 2015b). Subsequently, a passive SSDS venting system was installed for the basement area in 2010 to reduce the likelihood of SS soil vapor entering in the building. Between 2011 and 2013, two SSV samples (SS-LAC8 and SS-14) were collected and results indicated no elevated VOC concentrations under the building. Between 2011 and 2014, three IA samples (IA-13, IA-LAC8, and IA-14) were collected, and the results indicated that indoor air levels of VOCs in the building were often below detection limits or at concentrations comparable to ambient air (URS 2015b).

In 2015, DEC requested more sub slab points be installed at LA Fitness to finalize site closure activities. An additional VI assessment was performed through the comparison of eight co-located IA and SSV samples collected before and after temporary shutdown of the passive SSDS. This rebound analysis suggested that the passive SSDS should be kept in operation in the unused partial basement of the LA Fitness building. On February 8, 2016, 11 SSV, 12 IA, one basement air, one ambient air, and four duplicate samples were collected from the LA Fitness building to evaluate concentrations of VOCs present in indoor air and sub slab soil vapor. Based upon these results, a reduced VI monitoring was recommended in an email dated 5/13/16 from DEC & DOH for this heating season in 2017. The scope of work proposed herein is a continuation of the 2016 sampling program with reductions described below.

3. Sampling Objectives and Methodologies

This work plan presents the details of the two proposed sampling events to be performed during the 2017 heating season, including the soil vapor sampling event in and around the iPark building, and the paired SSV and IA sampling event for the LA Fitness building. All sample locations and sampling methodologies are presented in the sections below.

3.1. Soil Vapor Sampling (iPark Building)

The primary intent of the 2017 SV sampling plan is to assess the lateral and vertical distribution of contaminants of concern (COCs) beneath and outside the existing buildings at the former Unisys facility. The data will be used to assess the current effectiveness of the SSDS and the SVE, and will provide data to substantiate recommendations for future optimization.

3.1.1. Sampling of Existing Nested Multi-Level Sampling Ports

The SV sampling will entail sampling soil vapors from the 97 nested SV points (with 11 duplicate samples representing approximately 10%) at 14 locations both inside and outside the iPark Building. The event will sample and analyze soil vapor to assess the vertical and lateral distribution of COCs in soil vapor under and surrounding the iPark Building down to a depth of 84 feet (VP-106) at or just above the water table through the network of existing nested multi-level SV sampling points. The SV locations with their nested sampling depths are provided in Table 1: these sampling locations and depths are consistent with those sampled as part of the 2016 SV monitoring program with the exception of points VP-5, VP-6 and VP-101. These locations have had consistently low concentrations for TCE and PCE (e.g. <210 ug/m^3 at all depths prior to SSDS operation, <160 ug/m^3 since the SSDS has been in operation). Additionally, these points are

located outside of the iPark building and a considerable distance from the source area. The locations of the nested SV points are presented in Figure 2. SV sampling from nested SV points will be in accordance with Standard Operating Procedure (SOP) SSDS-28 included in Appendix A, and will be consistent with previously used methods. The SV sampling event will be conducted during the heating season as required. The samples per nested wells are summarized in the tables below and displayed on Figure 2.

INTERIOR LOCATIONS	
Nested Well	**Ports**
VP-102	7
VP-103	8
VP-104	8
VP-107	7
LIJ-VP-7	6
FPM-20	2
VP-8	3
VP-8D	3
VP-NYSDEC-5	6
VP-9	6
VP-105	7
Interior Samples	**63**

EXTERIOR LOCATIONS	
Nested Well	**Ports**
VP-1	4
VP-2	4
VP-3	4
VP-3D	4
VP-4	4
VP-106	7
VP-108	4
VP-108D	3
Exterior Samples	**34**
TOTAL NESTED PORTS	**97**
DUPLICATES	**11**
TOTAL NUMBER OF SAMPLES	**108**

3.2. Sub-Slab and Indoor Air Sampling for the LA Fitness Building

The purpose of the 2017 vapor intrusion sampling is to: (1) assess the effectiveness of the passive venting system in reducing VOC concentrations in the unused partial basement, (2) identify current

VOC concentrations in sub-slab soil vapor and in indoor air, and (3) evaluate the potential for vapor intrusion into indoor air. The 2017 sampling plan for LA Fitness will build on the 2016 plan and will include sampling sub-slab soil vapor under the building slab, and indoor air sampling at sample locations from previous years. After review of the 2016 sampling results, NYSDEC and NYSDOH indicated in an email from May 5, 2016 that only six locations require continued monitoring (Appendix B).

3.2.1. Sampling Locations

Six IA samples will be collected from the LA Fitness building while the passive SSDS is operational. These paired SS-IA samples will be consistent with the May 5, 2016 letter from NYSDEC regarding continued monitoring at the LA Fitness building. These locations are summarized in the table below.

Indoor Air (IA)	Sub-Slab Vapor (SSV)
IA-C1	SS-C1
IA-C20	SS-C20
IA-D7	SS-D7
IA-E16	SS-E16
IA-D13	SS-D13
IA-G18	SS-G18
IA-12	
**Locations D13 and G18 were previously labeled "Prop1 and Prop3" in the 2016 Annual Monitoring Report*	
***IA-12 is taken from the basement area of LA Fitness*	

One duplicate SS-IA sample and one ambient air sample will be collected. The SSV, IA, and ambient samples will be collected in accordance with SOPs SSDS-25 and SSDS-26, respectively (Appendix A), and will be consistent with previously used methods. The locations of the LA

Fitness samples are shown in Figure 3. Additional details for LA Fitness sampling locations is included in Table 2.

3.3. Sample Collection and Leak Testing

SV samples (iPark and LA Fitness) will be collected in accordance with the SOPs (SSDS-25 and SSDS 28)[1], which are included in Appendix A of this Work Plan. SV samples will be collected under normal working conditions with heating, ventilation and cooling (HVAC) systems operational where applicable. All SV samples inside the building will be collected while the SSDS is operational. All samples will be collected in batch certified 6-liter SUMMA canisters equipped with a flow controller. SV samples will be collected over at least a four-hour period.

Additional specifications that will be met before, during and after sample collection include:

- Canisters with initial vacuum less than 25 inches of mercury recorded at the time of sampling will be rejected,
- Samples will be drawn at the rate specified for the prescribed sampling duration,
- Sample collection will be complete when the remaining vacuum is less than 10 inches of mercury; no samples will be analyzed by the laboratory unless there is a vacuum of at least 6 inches of mercury.
- Duplicates will be sampled concurrently through a split flow connector to ensure both canisters receive the same extracted vapor.

The canister and flow controller numbers will be recorded as will final helium concentrations (shroud and sampling train) from the leak-test (if conducted). Also, temperature and pressure will be measured using a portable weather gauge accompanying each sampling crew at the beginning

[1] SSDS-25 "Lockheed Martin Corporation SOP for Sub-Slab Soil Vapor Sampling" and SSDS-28 "*Lockheed Martin Corporation SOP for SSDS – Soil Vapor Sampling from Nested Well Sampling Ports"*

and end of each sampling event. Outdoor conditions will also be recorded. Tetra Tech will generate site-specific field logs for each sample; an example of the field sampling log is provided as Table 3.

Canister pressures will be documented at the start and end of each sampling event; date and time that sampling began and ended will also be recorded along with any observations pertinent to the sampling event. Tetra Tech will have a dedicated photoionization detector (PID) during the sampling event and this will be periodically used to monitor conditions during the event. The PID will be calibrated daily to manufacturer's specifications. Sampling locations will be photo-documented at the time of sampling and will include photos of the sampling train (including duplicate set-ups if required).

Sub-slab, ambient air samples and indoor air samples will be collected using batch certified, 6-litre stainless steel Summa canisters equipped with 8-hour flow controls, in-line particulate filters and vacuum gauges. The procedure for indoor air and ambient air sample collected is detailed in Appendix A.

Leak tests will be performed on a minimum of 5% of the sampling locations. iPark sampling locations and LA Fitness sampling locations will be considered separate sampling events, each with unique leak detections. An additional consideration will be given to nested wells that may have been compromised. Tetra Tech will use leak-test shrouds specifically designed for this event. The shroud design is consistent with the design presented in SOP SSDS-27[2] which is included in Appendix A of this Work Plan. Laboratory grade helium will be used for leak-testing which will be conducted using calibrated helium meters with probes. The shroud will have dedicated fittings

[2] SSDS-27 *"Lockheed Martin Corporation SOP for Helium Tracer Gas Leak Test for SS Soil Vapor Sampling"*

for helium flow into and evacuated flows out of the shroud as well as a means to sample the helium concentration within the shroud.

Given that many of the areas within the building have finished floors, a compressive rubber seal will be used to seal the shroud with the floor surface. Additional weights will be placed on the shroud to ensure a proper seal. For outdoor sampling, the conditions surrounding the port will determine the type of seal used; bentonite clay has been successfully used in the past and is well suited for grass-covered and asphalt areas. Tetra Tech will remove any materials added to restore the site to its original condition, if necessary, once the sampling is completed.

Per SOP SSDS-27, the helium content within the shroud will be greater than 60% prior to testing. The level of helium in the shroud will be measured through a purpose-built sample port in the shroud using a MGD 2002 Multi-Gas Detector (or equivalent) helium meter. The sample line will then be purged into a Tedlar bag using a low pressure pump that allows better control of the purge rates (typically less than 100 mL/minute as required by the SOP) and reduces pressure changes in the port, which prevents over pressurization due to low-flow conditions. If low-flow conditions are encountered the sampling train will be replaced and the leak test repeated. Once the seal has been verified, the sample train will then be purged of three volumes with the low flow pump. If greater than 10% helium is detected in the purge air, the fitness of the shroud and sample train will be examined and additional sealing material will be added or pressure applied to the shroud to complete the seal. Once the concentration of helium in the purge air is less than 10%, the leak-test will be considered complete and the helium will be evacuated from the shroud. Details of the leak test will be documented on the field sampling log (Table 3).

The shroud will remain in place to minimize disturbance of the sampling port after the leak-test has been completed. A "T" quick connect fitting (stainless steel or other non-reactive material) with a check-valve will be fitted to the tubing that runs from the port, through the shroud to the

pump. The "T" will allow for connections to both the pump and the SUMMA canister. Once the leak-test is complete, the "T" will be switched over to SUMMA canister so that the sample train is complete. Once the "T" has been switched to the SUMMA canister, the canister's flow controller will be used to control the sample flow into the canister. The flow controller gauge will be checked periodically during sample collection to ensure that the sampling rate has remained stable. For samples were leak testing is not required, the "T" fitting will connect to both the pump (for purging) and the SUMMA canister.

4. Laboratory Analysis and Data Validation

The sample canisters (SV, SSV, IA and ambient) will be picked up by the laboratory for analysis at the end of each sampling day. Laboratory-provided chain of custodies will be completed and field observations made during sampling will be documented. Samples will be submitted to a New York State accredited laboratory for analysis using USEPA Method TO-15 (modified) and will include analyses for Freon 22 and Freon 115. A list of analytical parameters is provided in Table 4; this list is consistent with prior sampling events with the inclusion of Freon 115 (chloropentafluoroethane).

Tetra Tech will maintain custody of the canisters during each sampling event. A chain of custody will be created following the completion of each sample. Sample results will be validated by Tetra Tech for the QA/QC parameters in accordance with New York State Analytical Services Protocol (NYS ASP) Category B/USEPA Level IV data deliverables. The Data Usability Summary Report (DUSR) will be prepared using the applicable State and site-specific documents for this project. The objective of data validation is to identify any questionable or invalid laboratory measurements. One DUSR will be prepared for each sample data package or group issued by the designated laboratory for the vapor intrusion sampling event. The sample validation will be completed within four weeks of receipt of sample results from the laboratory.

Once validated, Tetra Tech will submit the data to NYSDEC in an electronic data deliverable in the NYSDEC required format.

5. Reporting

Following the completion of field work and the receipt of all validated analytical data, Tetra Tech will generate updates to all sampling results tables, letters to property owners and tenants (LA Fitness only), and an Annual Monitoring Report.

5.1. Updated Sampling Results Tables

Tetra Tech will update historical data tables from past sampling events with data from the 2017 event. The historical data is to include all nested SVs along with the SSV, IA and ambient data. Currently, data for iPark and LA Fitness are maintained separately, and will continue to be in 2017. Data will be integrated into a database and will include the results for the 2017 sampling event once the data has been validated. The database will be parsed to generate tables for the report that present the results of past and current sampling events for both iPark and LA Fitness. In addition, the data will be parsed by tenant space to generate tables to accompany owner and tenant letters. Similarly, site figures that were included in the 2016 Vapor Intrusion Reports for iPark and LA Fitness (Tetra Tetch 2016b) will be updated.

5.2. Letters to property owners and tenants

Letters will be prepared that summarize the vapor intrusion sampling results for both tenants and property owners. Letters prepared for each property owner will only include the results of the 2017 SV Sampling Event. The letters will include a site figure that shows the location of the SV sampling points and the accompanying table will present the results for the 2017 SV Sampling Event for each location.

Letters will also be prepared for each tenant where an indoor air sample was collected. Only IA data for samples collected in the leased space for that particular tenant will be presented. The letter

will include a site figure that shows the IA sampling location and an accompanying table will present the IA results for those locations identified as being within the tenant's leased space.

The draft letters (for owners and tenants) will be submitted to NYSDEC and NYSDOH for review and comment. Final letters will be reviewed by both agencies before submittal to the owners and tenants. Submittal of the tenant letters to owners and tenants will occur within 30 days of the data has been validated.

5.3. Annual Monitoring Report – iPark and LA Fitness

The Annual Monitoring Report will present and discuss the results of the 2017 SV sampling event and will also include the SSV and IA results (along with ambient sampling results) used to assess COC concentration trends in the LA Fitness building. Results of the nested SV sampling will be compared with previous sampling events. SSV and IA samples from the LA Fitness building will be compared to previous sampling events and to NYSDOH VI guidance for evaluation.

A detailed description of each sampling event will be provided within separate sections of the report. Each section will summarize the requirements of the approved SV Work Plan and discuss the activities conducted for each sampling event. The section will highlight the sampling activities, field observations, SSDS operations (both the active system at iPark and the passive system at LA Fitness) and any other information pertinent to establishing the multiple lines of evidence (MLE) necessary to interpreting the results.

A description of the sampling location and its environs including the condition of the sampling port and any pertinent observations from the leak-test (if conducted for that location) can help identify any issues that may have a bearing on the result. Observations may help identify potential background sources which could influence IA and ambient results and identify changes in physical characteristics that may introduce variability from previous sampling events. For IA sampling

locations, the NYSDOH *"Indoor Air Quality Questionnaire and Building Inventory"* form (NYSDOH 2006) will be completed and any pertinent observations will be discussed. Other significant factors to be documented and discussed may include:

1. A reconnaissance of infrastructure in the vicinity of the sampling location including any indications of recent construction.
2. An understanding of the area's current uses particularly any changes since the last sampling event such as the presence of sensitive populations (e.g., child care).
3. Identify any ongoing construction or operations that could influence air flow or introduce potential background sources.
4. Identify potential preferential pathways for vapor to migrate into the building including cracks, floor penetrations, or discontinuities in the floor that are unobtrusively visible and evident.
5. Identify and document any materials used by tenants that could represent a potential background source. This information will be used in the MLE approach when reviewing the IA and ambient results. Field screening instrument (e.g. PID) will be used to scan for any background sources at the time of sampling.
6. Performance data for the EPs (including recorded vacuum conditions) for the days of the sampling event will also be reviewed as representative of conditions under the slab.
7. A review of the operation and performance of the SSDS (both the active system at iPark and the passive system at LA Fitness) prior to and during the sampling event. This may include information from the maintenance and monitoring tasks of the SSDS operations that could be of importance.

A field log will be prepared to provide a detailed recording of the parameters of importance from the sampling event, and observations will be summarized and included in the report if there are any significant issues. The canister and flow controller numbers will be recorded. Also noted will be temperature and pressure readings measured by a portable weather gauge at the beginning and end of each sampling event. Canister pressures will be documented at the start and end of each

sampling event; the date and time that sampling began and ended will also be recorded along with any observations pertinent to the sampling event. A dedicated PID will be available during the sampling event and this will be used to periodically monitor conditions.

5.4. Data Presentation

Once all the sampling data has been received and validated, site figures will be generated that show all the nested SV sampling locations and their results. Along with the current sampling data, historical SV data will be included in the report and presented in the accompanying figures. For simplicity, the results presented in the figures will be limited to TCE and PCE, which are the primary COCs; the tables will include all parameters listed in Table 4. The details of the database have been discussed above and these will be used to generate the figures and tables for the report. Tables in the report will present the nested SV sampling results from previous and current sampling events.

6. Data Analysis and Recommendations

A comparative analysis of the results of the 2017 sampling events and data from past sampling events will be conducted and included in an annual report to NYSDEC and NYSDOH. The intent is to assess changes in the lateral and vertical distribution of COCs beneath and outside the existing buildings at the former Unisys facility. The data will be used to assess the effectiveness of the SSDS and to provide data and analyses to substantiate recommendations for future optimization.

All available data will be analyzed to:

1. Compare with the appropriate NYSDOH criteria for evaluating soil vapor intrusion including comparison of results with Matrix 1 and Matrix 2 of NYSDOH VI Guidance (NYSDOH 2006).
2. Present both lateral and vertical extent of the primary COC concentrations under and adjacent to the former Unisys facility. The extents will be compared with historical data to evaluate potential changes.
3. Along with the historical data, temporal trends for the primary COCs by sampling location will be assessed. The assessment may include the use of statistical analysis assuming that there are sufficient data to be statistically relevant.

In addition to the presentation of data, an assessment of trends (if the sample sizes are viable) using available data from all past sampling events to better understand changes will be conducted. The report will address the effectiveness of the SSDS and provide recommendations for additional optimization.

7. References

ARCADIS (2011). Draft Supplemental Perched Water Investigation Report, Former Unisys Corporation Site, Great Neck, New York. October 2011.

CDM Smith (2014). Vadose Zone Model Documentation Report. May 2014.

NYSDEC (2010). DER-10, Technical Guidance for Site Investigation and Remediation. Division of Environmental Remediation. May 2010.

NYSDOH (2006). Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006.

Tetra Tech (2015). Project Specific Health and Safety Plan, Former Unisys Facility, Lake Success, New York. December 2015.

Tetra Tech (2015) 2016 Soil Vapor Sampling Work Plan for the iPark and LA Fitness Buildings, Former Unisys Facility, Lake Success, New York, December 2015.

Tetra Tech (2016a) 2016 Soil Vapor Sampling Work Plan for the LA Fitness Building, Former Unisys Facility, Lake Success, New York, February 2016.

Tetra Tech (2016b) 2016 Soil Vapor Monitoring Report, Former Unisys Facility, Lake Success, New York, July 2016.

URS Corporation (2015a). Revised Soil Vapor Monitoring Work Plan 2015, Former Unisys Facility, Lake Success, New York. January 2015.

URS Corporation (2015b). Soil Vapor Monitoring Report 2015, Former Unisys Facility, Lake Success, New York. July 2015.

TABLES

TABLE 1

Summary of Soil Vapor Samples from Existing Nested Wells

Former Unisys Facility, Lake Sucess, New York

Tenant[1]	Location	Nested Well	Sample Depths (Feet)	Proposed for 2016 Sampling Event
NSLIJ	Interior	VP-102	4.5	YES
			8.5	YES
			19.5	YES
			51.5	YES
			57.5	YES
			61.5	YES
			73.5	YES
NSLIJ Cancer Center 2	Interior	VP-103	5	YES
			10	YES
			20	YES
			30	YES
			40	YES
			50	YES
			61.5	YES
			74.5	YES
Unoccupied Space C4	Interior	VP-104	5	YES
			10	YES
			19	YES
			30	YES
			40	YES
			50	YES
			62	YES
			73	YES
Dealertrack	Interior	VP-107	5	YES
			13	YES
			20	YES
			33.5	YES
			44	YES
			60	YES
			74	YES
NSLIJ Mock-Up Room	Interior	LIJ-VP-7	5	YES
			10	YES
			20	YES
			30	YES
			40	YES
			50	YES
Hallway adjacent to Antech	Interior	FPM-20	5	YES
			9.4	YES
Unoccupied Space B2	Interior	VP-8	5	YES
			10	YES
			20	YES
Unoccupied Space B2	Interior	VP-8D	53.5	YES
			62.5	YES
			72.5	YES
Stellae	Interior	VP-NYSDEC-5	5	YES
			10	YES
			20	YES
			30	YES
			40	YES
			50	YES
Stellae	Interior	VP-9	10	YES
			20	YES
			30	YES
			40	YES
			50	YES
			60	YES
Stellae	Interior	VP-105	5	YES
			10	YES
			20	YES
			32	YES
			50	YES
			60	YES
			72	YES

TABLE 1

Summary of Soil Vapor Samples from Existing Nested Wells

Former Unisys Facility, Lake Sucess, New York

Tenant[1]	Location	Nested Well	Sample Depths (Feet)	Proposed for 2016 Sampling Event
Outside - East of Main Bldg.	Exterior	VP-1	5	YES
			10	YES
			20	YES
			30	YES
Outside - East of Main Bldg.	Exterior	VP-2	5	YES
			10	YES
			20	YES
			30	YES
Outside - South of Main Bldg.	Exterior	VP-3	5	YES
			10	YES
			20	YES
			30	YES
Outside - South of Main Bldg.	Exterior	VP-3D	40	YES
			51	YES
			61	YES
			73	YES
Outside - South of Main Bldg.	Exterior	VP-4	5	YES
			10	YES
			20	YES
			30	YES
Outside - East of Main Bldg.	Exterior	VP-5	5	NO
			10	NO
			20	NO
			30	NO
Outside - Southeast of Main Bldg.	Exterior	VP-6	5	NO
			10	NO
			20	NO
			30	NO
Outside - South of Main Bldg.	Exterior	VP-101	5	NO
			15	NO
			27	NO
Outside - North of Main Bldg.	Exterior	VP-106	5	YES
			11	YES
			19.5	YES
			28	YES
			56	YES
			72	YES
			84	YES
Outside - East of Main Bldg.	Exterior	VP-108	5	YES
			10	YES
			20	YES
			29.5	YES
		VP-108D	50.5	YES
			60	YES
			70	YES
TOTAL NUMBER OF SAMPLES[2]				**108 (+11 DUPS)**

NOTE

1 Tenants identified from 2016 Vapor Intrusion Report.

2 Per sampling plan, 11 duplicates are planned to be collected. These are to be selected at time of sampling.

TABLE 2

Summary of Soil Vapor Samples for the LA Fitness Facility

Former Unisys Facility, Lake Sucess, New York

Location[2]	Indoor Air	Sub-Slab	Ambient[3]
LA Fitness	DUP[2]	DUP[2]	
LA Fitness	IA-C1	SS-C1	
LA Fitness	IA-C20	SS-C20	
LA Fitness	IA-D7	SS-D7	
LA Fitness	IA-E16	SS-E16	
LA Fitness	IA-D13	SS-D13	
LA Fitness	IA-G18	SS-G18	
LA Fitness	IA-12		
Outside LA Fitness			1
TOTAL NUMBER OF SAMPLES	**8**	**7**	**1**

NOTE

1 Sampling locations identified from 2016 Vapor Intrusion Monitoring Report.

2 Per the 2016 sampling event, 1 duplicate pair is proposed and will be selected at time of sampling.

3 Location to be determined at time(s) of indoor air sampling.

TABLE 3
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:				
Date:				
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient
Depth (if applicable)		(feet)		
Canister Volume (circle)	6 - Liter	1 - Liter		
Sample ID:				
Sampler Name:				

LEAK CHECK (circle) **YES** **NO**

He Instrument: **Units:** **%**

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		**START**			**END**		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s):

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start				
Sampling End				

OBSERVATIONS/NOTES

TABLE 4

Summary of Soil Vapor Chemicals of Concern to be Analyzed by TO-15 Methods

Former Unisys Facility, Lake Sucess, New York

CAS	Compound	MRL (ug/m^3)	MRL (ppbv)
71-55-6	1,1,1-Trichloroethane	0.5	0.092
79-34-5	1,1,2,2-Tetrachloroethane	0.5	0.073
79-00-5	1,1,2-Trichloroethane	0.5	0.092
75-34-3	1,1-Dichloroethane	0.5	0.12
75-35-4	1,1-Dichloroethene	0.5	0.13
75-37-6	1,1-Difluoroethane	0.5	0.19
120-82-1	1,2,4-Trichlorobenzene	0.5	0.067
95-63-6	1,2,4-Trimethylbenzene	0.5	0.1
96-12-8	1,2-Dibromo-3-chloropropane	0.5	0.052
106-93-4	1,2-Dibromoethane	0.5	0.065
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.5	0.072
95-50-1	1,2-Dichlorobenzene	0.5	0.083
107-06-2	1,2-Dichloroethane	0.5	0.12
540-59-0	1,2-Dichloroethene, Total	0.5	0.13
78-87-5	1,2-Dichloropropane	0.5	0.11
108-67-8	1,3,5-Trimethylbenzene	0.5	0.1
106-99-0	1,3-Butadiene	0.5	0.23
541-73-1	1,3-Dichlorobenzene	0.5	0.083
106-46-7	1,4-Dichlorobenzene	0.5	0.083
123-91-1	1,4-Dioxane	0.5	0.14
306-83-2	2,2-Dichloro-1,1,1-trifluoroethane (Freon 123)	0.5	0.08
78-93-3	2-Butanone (MEK)	5	1.7
591-78-6	2-Hexanone	0.5	0.12
67-63-0	2-Propanol (Isoproppyl Alcohol)	5	2
107-05-1	3-Chloro-1-propene (Allyl Chloride)	0.5	0.16
622-96-8	4-Ethyltoluene	0.5	0.1
108-10-1	4-Methyl-2-pentanone	0.5	0.12
67-64-1	Acetone	5	2.1
71-43-2	Benzene	0.5	0.16
75-27-4	Bromodichloromethane	0.5	0.075
75-25-2	Bromoform	0.5	0.048
74-83-9	Bromomethane	0.5	0.13
75-15-0	Carbon Disulfide	5	1.6
56-23-5	Carbon Tetrachloride	0.1	0.016
108-90-7	Chlorobenzene	0.5	0.11
75-45-6	Chlorodifluoromethane (Freon 22)	0.5	0.14
75-00-3	Chloroethane	0.5	0.19
67-66-3	Chloroform	0.5	0.1
74-87-3	Chloromethane	0.5	0.24
76-15-3	Chloropentafluoroethane	0.5	0.079
156-59-2	cis-1,2-Dichloroethene	0.5	0.13
10061-01-5	cis-1,3-Dichloropropene	0.5	0.11
98-82-8	Cumene	0.5	0.1
110-82-7	Cyclohexane	1	0.29
124-48-1	Dibromochloromethane	0.5	0.059
75-71-8	Dichlorodifluoromethane (Freon 120	0.5	0.1
100-41-4	Ethylbenzene	0.5	0.12
87-68-3	Hexachlorobutadiene	0.5	0.047
179601-23-	m,p-Xylenes	0.5	0.12
79-20-9	Methyl Acetate	0.5	0.17
1634-04-4	Methyl tert-Butyl Ether	0.5	0.14
108-87-2	Methylcyclohexane	0.5	0.12
75-09-2	Methylene Chloride	0.5	0.14

TABLE 4

Summary of Soil Vapor Chemicals of Concern to be Analyzed by TO-15 Methods

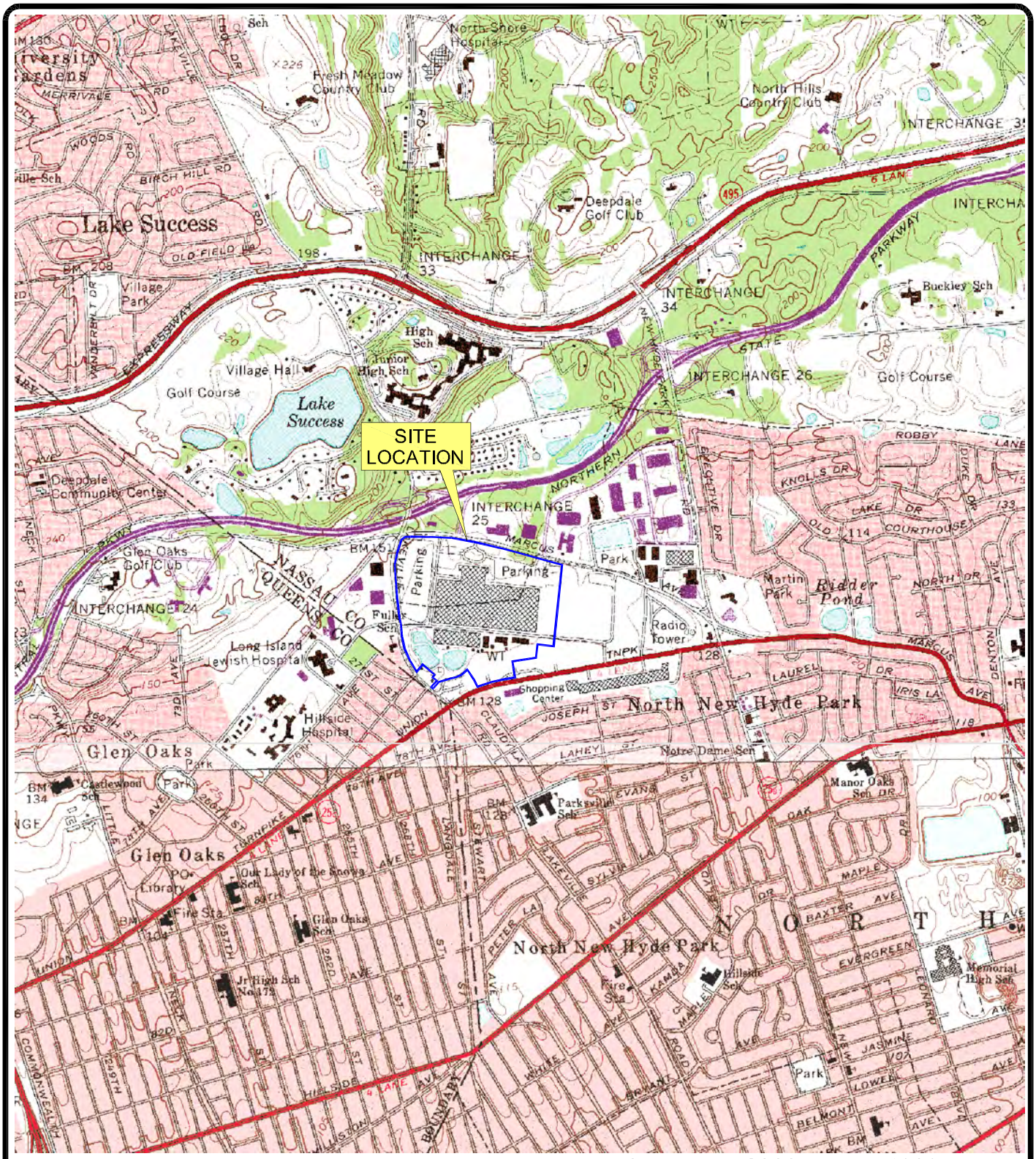
Former Unisys Facility, Lake Sucess, New York

CAS	Compound	MRL (ug/m^3)	MRL (ppbv)
110-54-3	n-Hexane	0.5	0.14
95-47-6	o-Xylene	0.5	0.12
100-42-5	Styrene	0.5	0.12
127-18-4	Tetrachloroethene	0.5	0.074
108-88-3	Toluene	0.5	0.13
156-60-5	trans-1,2-Dichloroethene	0.5	0.13
10061-02-6	trans-1,3-Dichloropropene	0.5	0.11
79-01-6	Trichloroethene	0.1	0.019
75-69-4	Trichlorofluoromethane	0.5	0.089
76-13-1	Trichlorotrifluoroethane (Freon 113)	0.5	0.065
75-01-4	Vinyl Chloride	0.1	0.039
Additional Compound			
76-15-3	Chloropentafluoroethane (Freon 115)		

Legends:

MRL:	method reporting limit
ppbv:	parts per billion by volume
$\mu g/m^3$:	micrograms per cubic meter

FIGURES



SOURCES: U.S.G.S TOPOGRAPHIC SERIES (NY)
SEA CLIFF, DATED 1968, PHOTOREVISED 1979
HORIZONTAL DATUM: NAD1927, VERTICAL DATUM: NGVD1929
LATITUDE: 040° 45' 22.07"N, LONGITUDE: 073° 41' 53.55"W

0 2000 4000
SCALE IN FEET

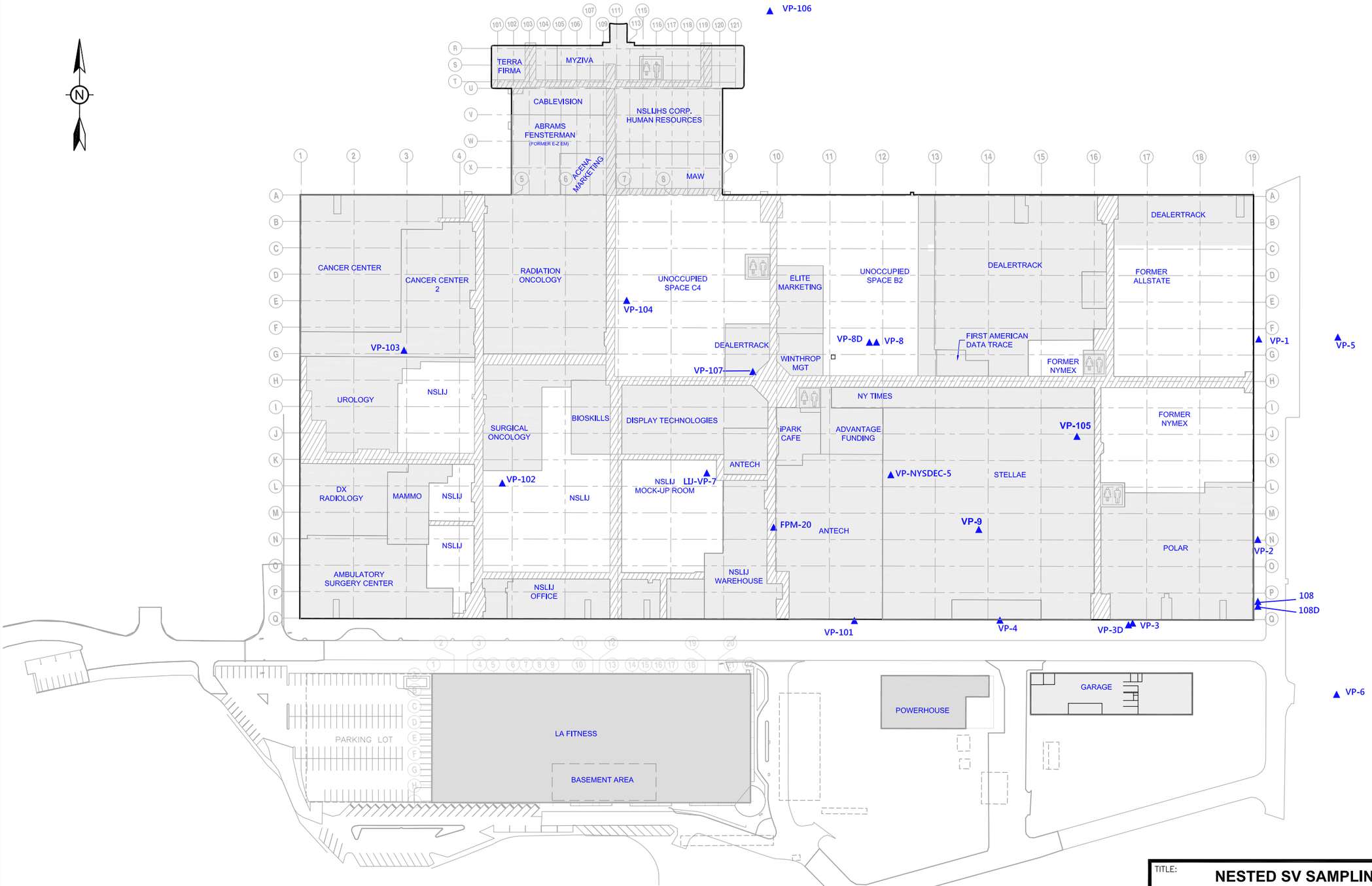
PROJECT:	**Lockheed Martin Corporation Former Unisys Facility**
LOCATION:	**Lake Success, New York**
TITLE:	**SITE LOCATION MAP**

TETRA TECH

APPROVED	SF
DRAFTED	CP
PROJECT#	117-0507642
DATE	7-14-16

FIGURE 1

P:\ACAD\0507-642-LOCK\0507642020A.DWG



LEGEND

▲ VP-107
▲ FPM-20

NESTED WELL SAMPLE LOCATIONS

NOTE:

OCCUPIED TENANT AREAS ARE SHOWN IN GRAY.

0 150 300

SCALE IN FEET

TITLE:

NESTED SV SAMPLING LOCATIONS
2017 SV MONITORING WORK PLAN

LOCATION:

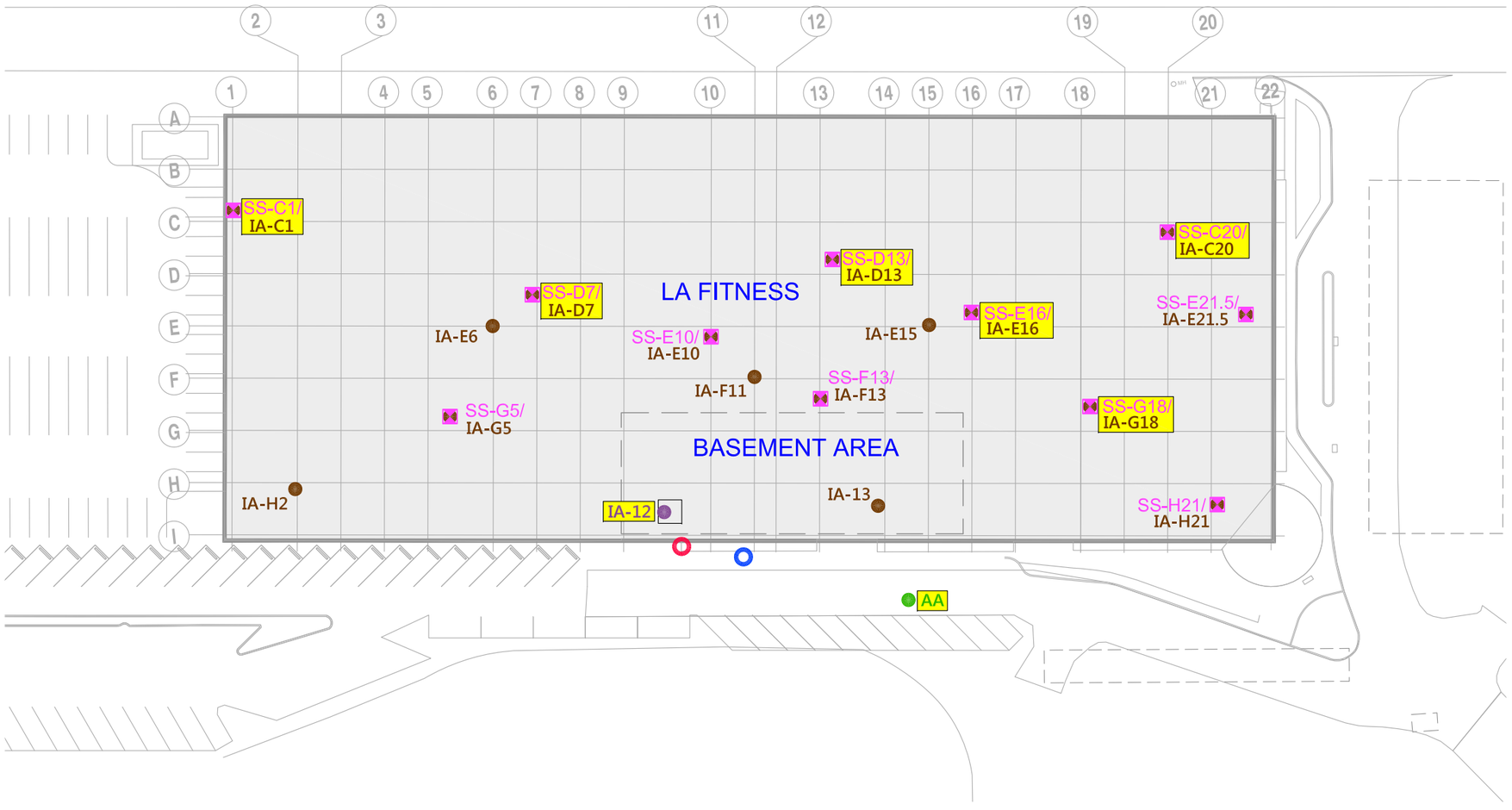
Former Unisys Facility
Lake Success, New York

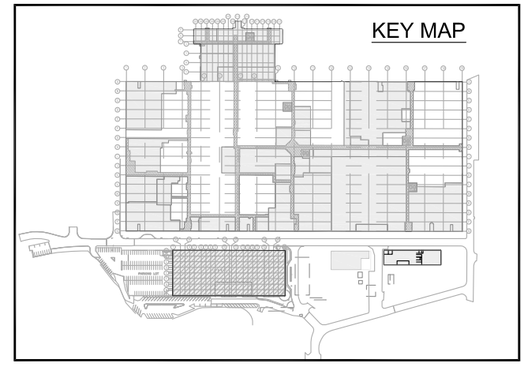
TETRA TECH

APPROVED	JB
DRAFTED	CP
PROJECT#	117-0507644
DATE	2-6-17

FIGURE 2

P:\ACAD\0507-644-LOCK\0507644024A.DWG





LEGEND

IA-13	INDOOR AIR SAMPLE LOCATION
SS-14/ IA-14	HISTORIC SUB-SLAB SOIL VAPOR/INDOOR AIR SAMPLE LOCATIONS
SS-C1/ IA-14	PAIRED SUB-SLAB SOIL VAPOR/INDOOR AIR SAMPLE LOCATIONS
SS-12	BASEMENT AIR SAMPLE LOCATION
	PASSIVE VENT EXHAUST
	PASSIVE VENT INLET
AA	AMBIENT AIR SAMPLE LOCATION
	LOCATION WILL BE SAMPLED THIS YEAR

NOTES:

1. SUB-SLAB MONITORING POINTS SS-LAC8 AND SS-14 WERE REPLACED BY NEW MONITORING POINTS SS-07 AND SS-C20, RESPECTIVELY DURING 2015.
2. SS-MONITORING POINTS SS-C1, SS-E10, SS-E16, SS-G5 AND SS-H21 WERE INSTALLED IN THE LA FITNESS BUILDING DURING 2015.

0 60 120
SCALE IN FEET

N

TITLE: **2017 VI SAMPLING LOCATIONS - LA FITNESS**
2017 SV MONITORING WORK PLAN

LOCATION: **Former UNISYS Facility**
Lake Success, New York

TETRA TECH

APPROVED	TJ
DRAFTED	CP
PROJECT#	117-0507644
DATE	2-9-17

FIGURE 3

P:\ACAD\0507-644-LOCK\0507644025A.DWG

APPENDICES

Appendix A: Lockheed Martin Standard Operating Procedures (SOPs)

Lockheed Martin Corporation SOP for Sub-Slab Soil Vapor Sampling

SOP Author:	Tetra Tech, Inc.
SOP #	SSDS-25
Revision #	2
Date	9/21/2016

Description

This SOP provides instructions for collecting SS soil vapor samples from the existing sampling ports for the analysis of VOCs by USEPA Method TO-15.

Abbreviations

COC: Chain of Custody
SOP: Standard Operating Procedure
SS: Sub-Slab
SSDS: Sub-Slab Depressurization System
USEPA: United States of Environmental Protection Agency
VOC: Volatile Organic Compounds

NOTE: WHEN ENTERING THE TENANT LEASEHOLD, ALL PERSONNEL WILL INFORM THE SPECIFIED TENANT RESPRESENTATIVE THAT WORK IS BEING COMPLETED IN THE TENANT LEASEHOLD.

SS Soil Vapor Sampling

1. SS soil vapor samples are collected from existing sample ports to help assess the levels of VOC under the LA Fitness building and Powerhouse building slab.
2. The locations of SS soil vapor samples to be collected are presented in Table 1 and Figures 1, 2, and 3 of the Work Plan.
3. The SS soil vapor samples will be collected in 6-liter batch certified, passivated stainless SUMMA® canisters. The samples will be collected through 8-hour flow controllers with in-line particulate filters and vacuum gauges.
4. All SUMMA canisters shall have an initial vacuum of 29 inches of mercury prior to sample collection.
5. Sampling shall be complete when the canister vacuum is less than 10 inches of mercury and no canister shall be shipped to the laboratory unless it has a vacuum of at least 6 inches of mercury.
6. Sampling personnel should not handle hazardous substances (such as gasoline), permanent marking pens, wear/apply fragrances, or smoke cigarettes before and/or during the sampling event.
7. Equipment List:
    - 6-liter, stainless steel SUMMA® canisters (order one extra, if feasible); 8-hour flow controllers with in-line particulate filters and vacuum gauges (order an extra set for each extra SUMMA® canister)
    - 1/4-inch ID tubing (Teflon, or similar)
    - Decontaminated extra small Swage-Lock (or equivalent) fittings
    - Stainless steel “T” fitting (if collecting duplicate [i.e., split] samples)
    - Portable vacuum pump capable of producing very low flow rates (e.g., 100 to 200 mL/min) with vacuum gauge. Purging flow rate should also be selected based on expected soil type (see below).
    - Rotameter or an electric flow sensor if vacuum pump does not have an accurate flow gauge (Bios DryCal or equivalent).
    - Tracer gas testing supplies if applicable (refer to SOP for “Administering Tracer Gas”).
    - Appropriate sized open-end wrench (typically 9/16-inch and ½ inch)

- Portable weather meter, if appropriate
- Chain-of-custody (COC) forms
- Sample collection log
- Digital camera

Initiation of Sample Collection

1. Record the following information on the sample log, if appropriate (contact the local airport or other suitable information source [e.g., site-specific measurements using the portable weather meter, or [weatherunderground.com] to obtain the information):
    a. wind speed and direction;
    b. ambient temperature;
    c. barometric pressure; and
    d. relative humidity
2. Connect "T" fitting and needle valve to allow for isolation of purge pump.
3. Remove the brass plug from the SUMMA canister and connect the flow controller with in-line particulate filter and vacuum gauge to the SUMMA canister. Do not open the valve on the SUMMA canister. Record on the sample log and COC form the flow controller number with the appropriate SUMMA canister number.
    - Perform a leak-down test by replacing the nut which secures sample tubing with the cap from the canister. This will create a closed system. Open the canister valve and quickly close it; the vacuum should increase approaching 30" Hg. If there are no leaks in the system this vacuum should be held. If vacuum holds proceed with sample collection; if not attempt to rectify the situation by tightening fittings.
4. Connect the Teflon sample collection tubing to the flow controller. Leave the SUMMA canister valve closed at this point.
5. Connect a portable vacuum pump to the purge leg of sample tubing. Purge 3 volumes of air from the vapor probe and sampling line using a portable pump [purge volume = 1.5 Pi r2h] at a rate of approximately 100 mL/min. Excessive vacuums should be avoided.
6. If low-flow conditions are encountered (when air flow rate is less than 10 mL/min or when vacuum is greater than 10" mercury), notify the RTO representative to discuss the option of installing a new vapor point.
7. If necessary, check the seal established around the soil vapor probe by using a tracer gas (e.g., helium) or other method established in the state guidance documents. [Refer to the Administering Helium Tracer Gas SOP, adapted from NYSDOH 2006]
8. At completion of purge, close the needle valve to isolate sample canister.
9. Open the SUMMA canister valves. Record on the sample log the time sampling began and the canister pressure. If the initial vacuum pressure registers less than -25 inches of Hg or greater, then the SUMMA canister is not appropriate for use and another canister should be used.
10. Take photographs of the SUMMA® canister and surrounding area, as appropriate.
11. Check the SUMMA canister approximately half way through the sample duration and note progress on sample logs.

Termination of Sample Collection

1. Arrive at the SUMMA® canister location at least 30 minutes prior to the end of the sampling interval (e.g., 8-hour).
2. Stop collecting the sample when the canister vacuum reaches approximately 6 inches of Hg (leaving some vacuum in the canister provides a way to verify if the canister leaks before it reaches the laboratory) or when the desired sample time has elapsed, whichever occurs first.
3. Record the final vacuum reading. Stop collecting the sample by closing the SUMMA® canister valve.

Record the date and local time (24-hour basis) of valve closing in the field notebook, sample collection log, and COC form. Additionally, record the parameters outlined in step 1 of the Initial Sample Collection Section.

4. Close the valve on the sampling port tubing and secure the well cover (if applicable).
5. Remove the particulate filter and flow controller from the SUMMA® canister, re-install brass plug on canister fitting, and tighten with wrench.
6. Package the canister and flow controller in the shipping container supplied by the laboratory for return shipment to the laboratory. The SUMMA® canister does not require preservation with ice or refrigeration during shipment.
7. Complete the appropriate forms and sample labels as directed by the laboratory (e.g., affix card with string).
8. Complete COC form and place requisite copies in shipping container. Close shipping container and affix custody seal to container closure. Ship to laboratory via overnight carrier (e.g., Federal Express) for analysis.

Safety Considerations

- Wear all necessary PPE and follow all associated procedures as outlined in the Health and Safety Plan.

Quality Assurance

SS soil vapor sample analysis will be performed using USEPA TO-15 methodology. This method uses a quadrupole or ion-trap GC/MS with a capillary column to provide optimum detection limits. The GC/MS system requires a 1-liter gas sample (which can easily be recovered from a 6-liter canister). The 6-liter canister also provides several additional 1-liter samples in case subsequent re-analyses or dilutions are required. This system also offers the advantage of the GC/MS detector, which confirms the identity of detected compounds by evaluating their mass spectra in either the SCAN or SIM mode.

Duplicate samples should be collected in the field as a quality assurance step. Generally, duplicates are taken of 10% of samples, but project specific requirements should take precedence.

References

New York State Department of Health (NYSDOH). 2006. Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October, 2006.

		Sub-slab Soil Vapor Sample Collection Log	
		Sample ID:	
Client:		Sampling Depth:	
Project:		Time and Date of Installation:	
Location:		Miscellaneous Equipment:	
Project #:		Moisture Content:	
Samplers:			

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L 6 L
Canister ID:	
Flow Controller ID:	
Notes:	

Leak Test Information (if applicable):

General Observations/Notes:

Lockheed Martin Corporation SOP for Indoor and Ambient Air Sampling

SOP Author:	Tetra Tech, Inc.
SOP #	SSDS-26
Revision #	2
Date	9/21/2016

Description

This SOP provides instructions for performing indoor and outdoor air sampling using USEPA Method TO-15 for VOC analyses.

Abbreviations

COC: Chain of Custody
SOP: Standard Operating Procedure
SSDS: Sub-Slab Depressurization System
USEPA: United States of Environmental Protection Agency
VOC: Volatile Organic Compounds

NOTE: WHEN ENTERING THE TENANT LEASEHOLD, ALL PERSONNEL WILL INFORM THE SPECIFIED TENANT RESPRESENTATIVE THAT WORK IS BEING COMPLETED IN THE TENANT LEASEHOLD.

Indoor Air Sampling

1. One ambient air sample will be collected during each day of indoor air sampling.
2. Duplicate samples will be collected at 10% frequency of total indoor air samples.
3. The indoor air sample locations are presented in Table 1 and Figures 1, 2, and 3 of the Work Plan.
4. The indoor air samples will be collected in 6-liter, batch certified stainless SUMMA® canisters. The samples will be collected through 8-hour flow controllers with in-line particulate filters and vacuum gauges.
5. Sampling personnel **should not** handle hazardous substances (such as gasoline), permanent marking pens, wear/apply fragrances, or smoke cigarettes before and/or during the sampling event.
6. Equipment List:
   - 6-liter, stainless steel SUMMA® canisters (order at least one extra);8-hour flow controllers with in-line particulate filters and vacuum gauges (order an extra set for each extra SUMMA® canister)
   - Appropriate sized open-end wrench (typically 9/16-inch)
   - Sample collection log
   - Digital Camera
   - Building survey and product inventory form (attached)
   - PID (photo-ionization detector) (for use identifying potential background sources during building survey)
   - 5-gallon bucket, box, chair, or similar to hold canister above the ground surface
   - Lock and Chain
   - Caution tape

Initiation of Sample Collection

1. Record the following information on the sampling form (use a hand-held weather meter, or contact the local airport or other suitable information source [e.g., weatherunderground.com] to obtain the following information):
   - ambient temperature
   - barometric pressure
   - wind speed
   - relative humidity
2. For each sample location, place the SUMMA® canister on a surface 3 to 5 feet above ground or floor surface. If the canister will not be overseen for the entire sampling period, secure the canister as appropriate (e.g., locks and chain, caution tape).
3. Record sample point location, SUMMA® canister serial number, gauge ID and flow controller number in the field

notebook, sample collection log, and COC form.

4. Remove the brass dust cap from the SUMMA® canister. Attach the flow controller with in-line particulate filter and vacuum gauge (leave swage-lock cap on the vacuum gauge during this procedure) to the SUMMA® canister with the appropriate-sized wrench. Tighten with fingers first, then gently with the wrench.
5. Connect the extra brass dust cap included with the sample equipment to the open end of the flow controller. Tighten the dust cap. Test the integrity of the SUMMA® canister by performing a leak test as follows:
    a. Open the canister with the brass dust cap connected to the end of the flow controller. If the pressure gauge indicates ZERO pressure loss, the SUMMA® canister has passed the leak test. If a drop in pressure is noted during the leak test, the integrity of the canister is no good. Send the canister back to the laboratory, indicating on the COC that the canister did not pass the leak test.
6. Once the canister has passed the leak test, close the canister and remove the brass dust cap from the end of the flow controller. Open the SUMMA® canister valve to initiate sample collection. Record the date and local time (24-hour basis) of valve opening in the field notebook, sample collection log, and COC form.
7. If the initial vacuum pressure does not register less than -28 inches of Hg, then the SUMMA® canister is not appropriate for use and another canister should be used. If another canister is required, repeat steps 2 through 6 of this SOP as necessary.

Termination of Sample Collection

1. Arrive at the SUMMA® canister location at least 10 to 15 minutes prior to the end of the sampling interval (e.g., 8-hour).
2. Stop collecting the sample when the canister vacuum reaches approximately 6 inches of Hg (leaving some vacuum in the canister provides a way to verify if the canister leaks before it reaches the laboratory) or when the desired sample time has elapsed, whichever occurs first.
3. Record the final vacuum reading. Stop collecting the sample by closing the SUMMA® canister valve. Record the date and local time (24-hour basis) of valve closing in the field notebook, sample collection log, and COC form. Additionally, record the parameters outlined in step 1 of this SOP.
4. Remove the particulate filter and flow controller from the SUMMA® canister, re-install brass plug on canister fitting, and tighten with wrench.
5. Package the canister and flow controller in the shipping container supplied by the laboratory for return shipment to the laboratory. The SUMMA® canister does not require preservation with ice or refrigeration during shipment.
6. Complete the appropriate forms and sample labels as directed by the laboratory (e.g., affix card with string).
7. Complete COC form and place requisite copies in shipping container. Close shipping container and affix custody seal to container closure. Ship to laboratory via overnight carrier (e.g., Federal Express) for analysis.

Safety Considerations

- Wear all necessary PPE and follow all associated procedures as outlined in the Health and Safety Plan.

Quality Assurance

Indoor air or ambient air sample analysis will be performed using USEPA Method TO-15. This method uses a quadrupole or ion-trap GC/MS with a capillary column to provide optimum detection limits. The GC/MS system requires a 1-liter gas sample (which can

easily be recovered from a 6-liter canister) to provide a 0.5 ppbv detection limit. The 6-liter canister also provides several additional 1-liter samples in case subsequent re-analyses or dilutions are required. This system also offers the advantage of the GC/MS detector, which confirms the identity of detected compounds by evaluating their mass spectra in either the SCAN or SIM mode.

Duplicate samples should be collected in the field as a quality assurance step. Generally, duplicates are taken of 10% of samples, but project specific requirements should take precedence.

		Indoor Air/Ambient Air Sample Collection Log	
		Sample ID:	
Client:		**Outdoor/Indoor:**	
Project:		**Sample Intake**	
Location:		**Tubing Information:**	
Project #:		**Miscellaneous Equipment:**	
Samplers:		**Time On/Off:**	
Sample Point Location:			

Instrument Readings:

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle	**1 L**	**6 L**
Canister ID:		
Flow		
Notes:		

General Observations/Notes:

Lockheed Martin Corporation SOP for – Helium Tracer Gas Leak Test for SS Soil Vapor Sampling

SOP #	SSDS-27
Revision #	2
Date	9/21/2016

Description

This SOP provides instructions for conducting helium trace gas leak test around soil vapor sampling points.

Abbreviations

SOP: Standard Operating Procedure
SS: Sub-slab

NOTE: WHEN ENTERING THE TENANT LEASEHOLD, ALL PERSONNEL WILL INFORM THE SPECIFIED TENANT RESPRESENTATIVE THAT WORK IS BEING COMPLETED IN THE TENANT LEASEHOLD.

1. A helium tracer gas serves as a quality assurance/quality control device to verify the integrity of the vapor port seal and to ensure the sample is not diluted by ambient or indoor air.
2. Trace gas administering includes the following basic steps: (1) enrich the atmosphere in the immediate vicinity where the port or sample tubing intersects the surface with the tracer gas; and (2) measure a vapor sample from the sample tubing for the presence of high concentrations (> 10%) of the tracer. A plastic pail, bucket, garbage can or even a plastic bag can serve to keep the tracer gas in contact with the port during the testing.
3. This SOP focuses on monitoring helium using a portable sampling device, although helium can also be analyzed by the laboratory along with other volatile organic compounds (VOCs). Real-time tracer sampling is generally preferred as the results can be used to confirm the integrity of the port seals prior to formal sample collection.
4. Leak test will be conducted at 5% of sample locations.
5. Equipment List:

- Helium (laboratory grade)
- Regulator for helium tank
- Shroud (plastic bucket, garbage can, etc)
    - The size of the shroud should be sufficient to fit over the sample port. It is worth noting that using a smaller shroud uses less helium which may be important when projects require a large number of helium tracer tests.
    - The shroud will need to have three small holes in it. These holes will include one on the top (to accommodate the sample tubing), and two on the side (one for the helium detector probe, and one for the helium line).
    - The shroud should ideally enclose the sample port and most of the sampling train.
- Helium detector capable of measuring from 1 - 100% (Dielectric MGD-2002, Mark Model 9522, or equivalent)
- Tedlar bags
- Seal material for shroud (rubber gasket, modeling clay, bentonite, etc) to keep helium levels in shroud high in windy conditions. Although the sealing material is not in direct contact with the sample if no leak occurs, sealing materials with high levels of VOC emissions should be avoided, since they could easily contaminate a sample from a point in which a trace leak occurs.
- Sample collection logs

Cautions

1. Helium is an asphyxiant. Be cautious with its use indoors.
2. Compressed gas cylinders should be handled with caution.

SOP Author:	Tetra Tech, Inc.

3. Care should be taken not to pressurize shroud while introducing helium. If the shroud is completely air tight and the helium is introduced quickly, the shroud can be over-pressurized and helium can be pushed into the ground.

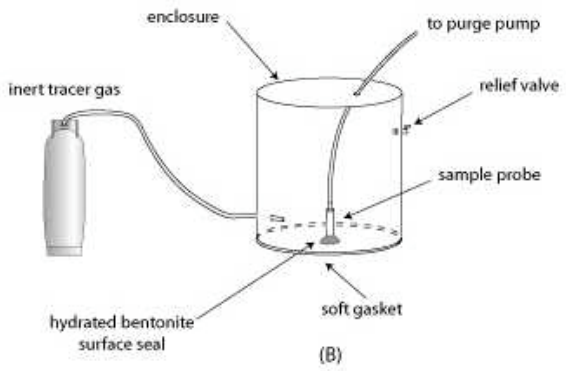
Procedure

The procedure used to conduct the helium tracer test should be specific to the shroud being used and the methods of vapor port installation. The helium tracer test can be conducted when using temporary or permanent sample point installs and from inside or outside a facility. However when using the tracer gas within indoor areas you must provide adequate ventilation because helium is an asphyxiant.

1. Attach Teflon or nylon sample tubing to the sample point. This can be accomplished utilizing a number of different methods depending on the sample install (i.e., barbed fitting, Swage-Lok fitting, ball valve, etc.).
2. Place the shroud over the sample point and tubing.
3. Pull the tubing through hole in top of shroud. Seal opening at top of shroud with modeling clay.
4. Place weight on top of shroud to help maintain a good seal with the ground.
5. Insert helium tubing into hole in side of shroud, seal with modeling clay to prevent leaks.
6. Fill shroud with helium. While filling shroud allow atmospheric air to escape either by leaving a crack with the surface or by providing a release value on the side of the shroud.
7. Use the helium detector to test level of helium gas from the lowest hole drilled in the shroud (bottom of the shroud nearest where the sample tubing intersects the ground). Helium should be added until the environment inside the shroud has > 60% helium.
8. Purge the sample point through the sample tubing into a Tedlar bag using a hand held sampling pump. The sample pump should be operating at a rate of approximately 100 ml/minute (the purge rate should typically not exceed the sample collection rate). Test the air in the Tedlar bag for helium using portable helium detector. If the port has been installed properly there should be zero helium in purge air.
9. If > 10% helium is noted in purge air, add more clay or other material to the seal the sample port and repeat the testing procedure. If the seal cannot be fixed, reinstall sample point.
10. Monitor and record helium level in shroud before, during and after tracer test.
11. Monitor and record helium level in purge exhaust.
12. At successful completion of tracer test and sample point purging, the soil vapor sample can be collected (if the helium shroud must be removed prior to sample collection be mindful not to disturb the sample tubing and any established seals).

Safety Considerations

- Wear all necessary PPE and follow all associated procedures as outlined in the Health and Safety Plan.



References

New York State Department of Health (NYSDOH). 2006. Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October, 2006.

Lockheed Martin Corporation SOP for SSDS – Soil Vapor Sampling from Nested Well Sampling Ports

SOP Author:	Tetra Tech, Inc.
SOP #	SSDS-28
Revision #	2
Date	9/21/2016

Description

This SOP provides instructions for collecting SV samples from the existing Nested Points for the analysis of VOCs by USEPA Method TO-15.

Abbreviations

COC: Chain of Custody
RTO: CDM Smith
SOP: Standard Operating Procedure
SSDS: Sub-Slab Depressurization System
SV: Soil Vapor
USEPA: United States of Environmental Protection Agency
VOCs: Volatile Organic Compounds

NOTE: WHEN ENTERING THE TENANT LEASEHOLD, ALL PERSONNEL WILL INFORM THE SPECIFIED TENANT RESPRESENTATIVE THAT WORK IS BEING COMPLETED IN THE TENANT LEASEHOLD.

SV Sampling

1. SV samples are collected from nested points within building footprint and in the immediate vicinity of the building to determine the distribution of VOCs on an annual basis.
2. The locations SV samples to be collected are presented in Table 1 and Figure 1.
3. The SV samples will be collected in 6-liter batch certified, passivated stainless SUMMA® canisters. The samples will be collected through 4-hour flow controllers with in-line particulate filters and vacuum gauges.
4. All SUMMA canisters shall have an initial vacuum of 29 inches of mercury prior to sample collection.
5. Sampling shall be complete when the canister vacuum is less than 10 inches of mercury and no canister shall be shipped to the laboratory unless it has a vacuum of at least 6 inches of mercury.
6. Sampling personnel should not handle hazardous substances (such as gasoline), permanent marking pens, wear/apply fragrances, or smoke cigarettes before and/or during the sampling event.
7. Equipment List:
    - 6-liter, stainless steel SUMMA® canisters (order one extra, if feasible) ;4-hour flow controllers with in-line particulate filters and vacuum gauges (order an extra set for each extra SUMMA® canister)
    - 1/4-inch ID tubing (Teflon, or similar)
    - Decontaminated extra small Swage-Lock (or equivalent) fittings
    - Stainless steel “T” fitting (if collecting duplicate [i.e., split] samples)
    - Portable vacuum pump capable of producing very low flow rates (e.g., 100 to 200 mL/min) with vacuum gauge. Purging flow rate should also be selected based on expected soil type (see below).
    - Rotameter or an electric flow sensor if vacuum pump does not have an accurate flow gauge (Bios DryCal or equivalent).
    - Tracer gas testing supplies if applicable (refer to SOP for “Administering Tracer Gas”).
    - Appropriate-sized open-end wrench (typically 9/16-inch and 1/2-inch).
    - Portable weather meter, if appropriate.

- Chain-of-custody (COC) forms.
- Sample collection logs (attached).
- Digital camera

Initiation of Sample Collection

1. Record the following information on the sample log using the portable weather meter; if appropriate (contact the local airport or other suitable information source [e.g., site-specific measurements,weatherunderground.com] to obtain the information).
    a. wind speed and direction;
    b. ambient temperature;
    c. barometric pressure; and
    d. relative humidity
2. Connect “T” fitting and needle valve to allow for isolation of purge pump.
3. Remove the brass plug from the SUMMA canister and connect the flow controller with in-line particulate filter and vacuum gauge to the SUMMA canister. Do not open the valve on the SUMMA canister. Record on the sample log and COC form the flow controller number with the appropriate SUMMA canister number.
    - Perform a leak-down test by replacing the nut which secures sample tubing with the cap from the canister. This will create a closed system. Open the canister valve and quickly close it; the vacuum should increase approaching 30” Hg. If there are no leaks in the system this vacuum should be held. If vacuum holds proceed with sample collection; if not attempt to rectify the situation by tightening fittings.
4. Connect the Teflon sample collection tubing to the flow controller. Leave the SUMMA canister valve closed at this point.
5. Connect a portable vacuum pump to the purge leg of sample tubing. Purge 3 volumes of air from the vapor probe and sampling line using a portable pump [purge volume = 1.5 Pi r2h] at a rate of approximately 100 mL/min. Excessive vacuums should be avoided.
6. If low-flow conditions are encountered (when air flow rate is less than 10 mL/min or when vacuum is greater than 10” mercury), notify the RTO representative to discuss the option of installing a new vapor point.
7. If necessary, check the seal established around the soil vapor probe by using a tracer gas (e.g., helium) or other method established in the state guidance documents. [Refer to the Administering Helium Tracer Gas SOP, adapted from NYSDOH 2006]
8. At completion of purge, close the needle valve to isolate sample canister.
9. Open the SUMMA canister valves. Record on the sample log the time sampling began and the canister pressure. If the initial vacuum pressure registers less than -25 inches of Hg or greater, then the SUMMA canister is not appropriate for use and another canister should be used.
10. Take photographs of the SUMMA® canister and surrounding area, as appropriate.
11. Steps 2 through10 should be repeated for each of the nested soil vapor ports; samples can be collected concurrently.
12. Check the SUMMA canister approximately half way through the sample duration and note progress on sample logs.

Termination of Sample Collection

1. Arrive at the SUMMA canister location at least 30 minutes prior to the end of the sampling interval.
2. Record the final vacuum pressure. Stop collecting the sample by closing the SUMMA canister valves. The canister should have a minimum amount of vacuum (approximately 6 inches of Hg or slightly greater).
3. Record the date and time of valve closing on the sample log and COC form.
4. Close the valve on the nested soil vapor sample tubing.
5. Once all the nested samples have been collected, be sure the well cover (if

applicable) is properly re-installed and secured.
6. Remove the particulate filters and flow controllers from the SUMMA canisters, re-install the brass plugs on the canister fittings, and tighten with the appropriate wrench.
7. Package the canisters and flow controllers in the shipping container supplied by the laboratory for return shipment to the laboratory. The SUMMA canisters should not be preserved with ice or refrigeration during shipment.
8. Complete the appropriate forms and sample labels as directed by the laboratory (e.g., affix card with a string).
9. Complete the COC form and place the requisite copies in a shipping container. Close the shipping container and affix a custody seal to the container closure. Ship the container to the laboratory via overnight carrier (e.g., Federal Express) for analysis.

Safety Considerations

- Wear all necessary PPE and follow all associated procedures as outlined in the Health and Safety Plan.

Quality Assurance

SV sample analysis will be performed using USEPA TO-15 methodology. This method uses a quadrupole or ion-trap GC/MS with a capillary column to provide optimum detection limits. The GC/MS system requires a 1-liter gas sample (which can easily be recovered from a 6-liter canister). The 6-liter canister also provides several additional 1-liter samples in case subsequent re-analyses or dilutions are required. This system also offers the advantage of the GC/MS detector, which confirms the identity of detected compounds by evaluating their mass spectra in either the SCAN or SIM mode.

Duplicate samples should be collected in the field as a quality assurance step. Generally, duplicates are taken of 10% of samples, but project specific requirements should take precedence.

References

New York State Department of Health (NYSDOH). 2006. Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006.

		Soil Vapor Sample Collection Log	
		Sample ID:	
Client:		Sampling Depth:	
Project:		Time and Date of Installation:	
Location:		Sealant:	
Project #:		Miscellaneous Equipment:	
Samplers:		Moisture Content of Sampling Zone):	
		Approximate Purge Volume:	

Instrument Readings

Date	Time	Canister Vacuum (a) (inches of Hg)	Temperature (°F)	Relative Humidity (%)	Air Speed (mph)	Barometric Pressure (inches of Hg)	PID (ppb)

(a) Record canister information at a minimum at the beginning and end of sampling

SUMMA Canister Information:

Size (circle one):	1 L 6 L
Canister ID:	
Flow Controller ID:	
Notes:	

Tracer Test Information (if applicable):

Initial Helium Shroud:	
Final Helium Shroud:	
Tracer Test Passed:	Yes No
Notes:	

General Observations/Notes:

Approximating one-well volume (for purging): When using $1^{1}/_{4}$-inch "Dummy Point" and a 6-inch sampling interval, the sampling space will have a volume of approximately 150 mL. Each foot of $^{1}/_{4}$-inch tubing will have a volume of approximately 10 mL

Appendix B: Communication from New York State Department of Environmental Conservation Regarding 2016 LA Fitness Sampling

From:	Desai, Girish V (DEC)
To:	Mellott, Dallas
Cc:	Phillips, Robert S; Rich, Peter; Glynn, William; Jones, Nathan E.; Ockerby, Renata E (HEALTH)
Subject:	RE: Draft LA Fitness Tenant Letters
Date:	Friday, May 13, 2016 9:33:25 AM
Attachments:	image001.png image002.png Draft LA Fitness Letter for WinthropDOH05122016 (2).docx Draft LA Fitness Tenant LetterDOH05122016.docx

Dallas,
The New York State Departments of Environmental Conservation (Department) and Health (NYSDOH) have reviewed the draft tenant letters for the above referenced site and offer the following comments below and also edits are provided on the attached draft letters.

1) Based on her comparison of the March 2016 sub-slab soil vapor to the indoor air data, a total of six locations require monitoring. Specifically:

   SS-C20
   SS-E16
   SS-P1 (Prop1)
   Ss-P3 (prop3)
   SS-C1
   SS-D7

2) In lieu of monitoring (potentially on an annual basis), the option for a mitigation system can be evaluated.

3) In the past cracks were developed in the floors of LA Fitness facility and were fixed. Floors and permanent sampling points should be inspected for leaks.

   Please submit revised letters to the NYSDOH and the Department for review.

Girish Desai, P.E.
Project Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
50 Circle Road, SUNY@Stony Brook
Stony Brook, NY 11790-3409
P: (631) 444-0243 | F: (631) 444-0248 | girish.desai@dec.ny.gov
www.dec.ny.gov | | |

From: Mellott, Dallas [mailto:Dallas.Mellott@tetratech.com]
Sent: Monday, May 09, 2016 10:16 AM
To: Desai, Girish V (DEC)
Cc: Phillips, Robert S; Rich, Peter; Glynn, William; Jones, Nathan E.
Subject: RE: Draft LA Fitness Tenant Letters

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Girish, I'm finishing it up now. I will have it to you by noon. Thank you.

From: Desai, Girish V (DEC) [mailto:girish.desai@dec.ny.gov]
Sent: Monday, May 09, 2016 10:15 AM
To: Mellott, Dallas <Dallas.Mellott@tetratech.com>
Cc: Phillips, Robert S <robert.s.phillips@lmco.com>; Rich, Peter <Peter.Rich@tetratech.com>; Glynn, William <GlynnWK@cdmsmith.com>; Jones, Nathan E. <JonesNE@cdmsmith.com>
Subject: RE: Draft LA Fitness Tenant Letters

Dallas,

As per our phone conversations, please provide spider diagram of LA Fitness SVI sampling.

Girish Desai, P.E.
Project Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
50 Circle Road, SUNY@Stony Brook
Stony Brook, NY 11790-3409
P: (631) 444-0243 | F: (631) 444-0248 | girish.desai@dec.ny.gov
www.dec.ny.gov | | |

From: Mellott, Dallas [mailto:Dallas.Mellott@tetratech.com]
Sent: Thursday, May 05, 2016 2:06 PM
To: Desai, Girish V (DEC)
Cc: Phillips, Robert S; Rich, Peter; Glynn, William; Jones, Nathan E.
Subject: Draft LA Fitness Tenant Letters

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Girish,

Attached you will find the draft tenant letters for the LA Fitness sampling event. One letter is addressed to LA Fitness and the other letter is addressed to Winthrop Management. I have included the tables and figures for each of these submittals to designate which letter they correspond. The data is being validated at this time.

I have also included a copy of a recent leak test field form performed at SS-C20 in LA Fitness. The results of that leak test indicate the point is competent and no leaks were found.

Please review and let me know if you have questions or comments. Please also advise if you would like me to forward this information to NYSDOH directly.

Thank you,

Dallas

Dallas Mellott | **Senior Project Geologist**
Main: 610-337-7660 | Cell: 908-461-4536 | Fax 610-337-7659
Tetra Tech
234 Mall Boulevard, Suite 260, King of Prussia, PA 19406

APPENDIX B—NESTED WELL SOIL VAPOR ANALYTICAL LABORATORY REPORTS AND DATA VALIDATION FORMS - IPARK

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 13, 2017

Dallas Mellott
Tetra Tech
234 Mall Boulevard
King Of Prussia, PA 19406

RE: Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Dear Dallas Mellott:
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on March 13, 2017 to report MDLs for TO15 compounds.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Jon Byk, Tetra Tech
Priscilla Merta, Tetra Tech
Joseph Samchuck, Tetra Tech

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Date: March 13, 2017

VP-104_5_20170221 (Lab ID: 10379929001)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_10_20170221 (Lab ID: 10379929002)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_19_20170221 (Lab ID: 10379929003)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_30_20170221 (Lab ID: 10379929004)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_40_20170221 (Lab ID: 10379929005)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_50_20170221 (Lab ID: 10379929006)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_62_20170221 (Lab ID: 10379929007)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_73_20170221 (Lab ID: 10379929008)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

FPM-20_5_20170221 (Lab ID: 10379929009)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

FPM-20_9.4_20170221 (Lab ID: 10379929010)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8_5_20170221 (Lab ID: 10379929011)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8_10_20170221 (Lab ID: 10379929012)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8_20_20170221 (Lab ID: 10379929013)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8D_53.5_20170221 (Lab ID: 10379929014)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8D_62.5_20170221 (Lab ID: 10379929015)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8D_72.5_20170221 (Lab ID: 10379929016)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8D_62.5_20170221DUP (Lab ID: 10379929017)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Date: March 13, 2017

FPM-20_5_20170221DUP (Lab ID: 10379929018)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

General Information:
18 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 462461

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure

- LCS (Lab ID: 2528756)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

QC Batch: 462564

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure

- LCS (Lab ID: 2529400)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

Analyte Comments:

QC Batch: 462564

A3: The sample was analyzed by serial dilution.

- VP-8D_53.5_20170221 (Lab ID: 10379929014)
  - cis-1,2-Dichloroethene
  - Methylene Chloride
  - Tetrachloroethene
  - Trichloroethene
- VP-8D_62.5_20170221 (Lab ID: 10379929015)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
- VP-8D_62.5_20170221DUP (Lab ID: 10379929017)
  - Tetrachloroethene
  - Trichloroethene
- VP-8D_72.5_20170221 (Lab ID: 10379929016)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

10379929

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26422

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE STATION, NJ
Email To: DALLAS.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELLOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-0507644

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☒ mg/m³ ☐ PPBV ☐ PPMV ☐ Other

Report Level II. ☐ III. ☐ IV. ☐ Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information / AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15*	TO15 Short List*	Pace Lab ID
1	VP-104_5_20170221	6LC		2/21/17	0905	2/21/17	1236	-30	-8	05995	01103							X			001
2	VP-104_10_20170221				0905		1236	-30	-9	20388	05498							X			002
3	VP-104_19_20170221				0905		1238	-30	-9	20995	00333							X			003
4	VP-104_30_20170221				0906		1237	-27	-8	09600	04206							X			004
5	VP-104_40_20170221				0906		1237	-30	-9	12883	00377							X			005
6	VP-104_50_20170221				0906		1238	-30	-9	14998	00041							X			006
7	VP-104_62_20170221				0906		1238	-30	-9	09380	00194							X			007
8	VP-104_73_20170221				0907		1238	-30	-9	21311	00082							X			008
9	FPM-20_5_20170221				1001		1347	-28	-8	00055	05977							X			009
10	FPM-20_9.4_20170221				1000		1324	-30	-9	00855	01455							X			010
11	VP-8_5_20170221				0945		1405	-30	-9	23333	02644							X			011
12	VP-8_10_20170221	↓		↓	0945	↓	1335	-30	-8	26942	00470							X			012

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] TT / TETRA TECH	2/22/17	1056	[signature] FedEx	2/22/17	1056
				22317	0950

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	AMB	Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JON BUK, ANDREW KELLY

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2/21/17

ORIGINAL

10379429

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26424

Page: 2 of 2

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE STATION, NJ
Email To: DALLAS.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELLOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-05076.04

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level: II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	P/D Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15 X	TO15 Short List*	Pace Lab ID
1	VP-8_20_20170221	6K		2/21/17	0945	2/21/17	1335	-29	-8	2323	0428							Y			013
2	VP-8D_53.5_20170221				0941		1310	-30	-9	1033	0049							X			014
3	VP-8D_62.5_20170221				0941		1311	-30	-8	2113	0606							X			015
4	VP-8D_72.5_20170221				0941		1311	-29	-9	2603	0025							X			016
5	VP-8D_62.5_20170221DUP				0941		1311	-30	-9	2136	0129							X			017
6	(30) ~~VP~~ FPM-20_5_20170221DUP	↓		↓	1001	↓	1347	-30	-10	1252	0051							X			018
7																					019-020 unused
8																					
9																					
10																					
11																					
12																					

Comments:
* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] /TT	2/22/17	1056	[signature]	2/22/17	1056
			[signature] Pace	22317	0950

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Burk, Andrew Kenny
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY): 2/22/17

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: tetra tech - NJ

Project #: WO#: 10379929

10379929

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 778487943143 - mister

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): \ **Corrected Temp (°C):** \ **Thermom. Used:** ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C **Correction Factor:** \ **Date & Initials of Person Examining Contents:** 2/23/17

Type of ice Received ☐ Blue ☐ Wet ☒ None

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
Unused	1267	03 0530			
Unused	1258	0600			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Roberg **Date:** 2/24/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
Alaska Certification UST-107
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10379929001
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929002
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929003
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929004
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929005
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929006
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929007
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929008
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929009
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929010
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

SAMPLE QUALIFIERS

Sample: 10379929011
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929012
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929013
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929014
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929015
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929016
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929017
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379929018
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

ANALYTE QUALIFIERS

1M This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure
A3 The sample was analyzed by serial dilution.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10379929001	**VP-104_5_20170221**	Air	02/21/17 12:36	02/23/17 09:50
10379929002	**VP-104_10_20170221**	Air	02/21/17 12:36	02/23/17 09:50
10379929003	**VP-104_19_20170221**	Air	02/21/17 12:38	02/23/17 09:50
10379929004	**VP-104_30_20170221**	Air	02/21/17 12:37	02/23/17 09:50
10379929005	**VP-104_40_20170221**	Air	02/21/17 12:37	02/23/17 09:50
10379929006	**VP-104_50_20170221**	Air	02/21/17 12:38	02/23/17 09:50
10379929007	**VP-104_62_20170221**	Air	02/21/17 12:38	02/23/17 09:50
10379929008	**VP-104_73_20170221**	Air	02/21/17 12:38	02/23/17 09:50
10379929009	**FPM-20_5_20170221**	Air	02/21/17 13:47	02/23/17 09:50
10379929010	**FPM-20_9.4_20170221**	Air	02/21/17 13:24	02/23/17 09:50
10379929011	**VP-8_5_20170221**	Air	02/21/17 14:05	02/23/17 09:50
10379929012	**VP-8_10_20170221**	Air	02/21/17 13:35	02/23/17 09:50
10379929013	**VP-8_20_20170221**	Air	02/21/17 13:35	02/23/17 09:50
10379929014	**VP-8D_53.5_20170221**	Air	02/21/17 13:10	02/23/17 09:50
10379929015	**VP-8D_62.5_20170221**	Air	02/21/17 13:11	02/23/17 09:50
10379929016	**VP-8D_72.5_20170221**	Air	02/21/17 13:11	02/23/17 09:50
10379929017	**VP-8D_62.5_20170221DUP**	Air	02/21/17 13:11	02/23/17 09:50
10379929018	**FPM-20_5_20170221DUP**	Air	02/21/17 13:47	02/23/17 09:50
10379929019	**Unused Can#1267**	Air		02/23/17 09:50
10379929020	**Unused Can#1258**	Air		02/23/17 09:50

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10379929001	**VP-104_5_20170221**	TO-15	MJL	62
10379929002	**VP-104_10_20170221**	TO-15	MJL	62
10379929003	**VP-104_19_20170221**	TO-15	MJL	62
10379929004	**VP-104_30_20170221**	TO-15	MJL	62
10379929005	**VP-104_40_20170221**	TO-15	MJL	62
10379929006	**VP-104_50_20170221**	TO-15	CH1, MJL	62
10379929007	**VP-104_62_20170221**	TO-15	CH1, MJL	62
10379929008	**VP-104_73_20170221**	TO-15	CH1, MJL	62
10379929009	**FPM-20_5_20170221**	TO-15	MJL	62
10379929010	**FPM-20_9.4_20170221**	TO-15	MJL	62
10379929011	**VP-8_5_20170221**	TO-15	MJL	62
10379929012	**VP-8_10_20170221**	TO-15	MJL	62
10379929013	**VP-8_20_20170221**	TO-15	MJL	62
10379929014	**VP-8D_53.5_20170221**	TO-15	CH1, MJL	62
10379929015	**VP-8D_62.5_20170221**	TO-15	CH1, MJL	62
10379929016	**VP-8D_72.5_20170221**	TO-15	CH1, MJL	62
10379929017	**VP-8D_62.5_20170221DUP**	TO-15	CH1, MJL	62
10379929018	**FPM-20_5_20170221DUP**	TO-15	MJL	62

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462461 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06204_27830.D Lab Sample ID: 2528755
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 08:54
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS for HBN 462461 [AIR/27830]	2528756	06202_27830.D	07:37
02	BLANK for HBN 462461 [AIR/2783	2528755	06204_27830.D	08:54
03	VP-104_5_20170221	10379929001	06217.D	15:49
04	VP-104_10_20170221	10379929002	06219.D	16:52
05	VP-104_19_20170221	10379929003	06221.D	17:55
06	VP-104_30_20170221	10379929004	06222.D	18:26
07	VP-104_40_20170221	10379929005	06223.D	18:58
08	VP-104_50_20170221	10379929006	06224.D	19:29
09	VP-104_62_20170221	10379929007	06225.D	20:01

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462564 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06312_27836.D Lab Sample ID: 2529399
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 12:20
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS for HBN 462564 [AIR/27836]	2529400	06302_27836.D	06:56
02	BLANK for HBN 462564 [AIR/2783	2529399	06312_27836.D	12:20
03	VP-104_73_20170221	10379929008	06313.D	12:51
04	FPM-20_5_20170221	10379929009	06314.D	13:23
05	FPM-20_9.4_20170221	10379929010	06315.D	13:54
06	VP-8_5_20170221	10379929011	06317.D	14:53
07	VP-8_10_20170221	10379929012	06318.D	15:25
08	VP-8_20_20170221	10379929013	06320.D	16:28
09	VP-8D_53.5_20170221	10379929014	06322.D	17:34
10	VP-8D_62.5_20170221	10379929015	06323.D	18:05
11	VP-8D_72.5_20170221	10379929016	06324.D	18:36
12	VP-8D_62.5_20170221DUP	10379929017	06325.D	19:08
13	FPM-20_5_20170221DUP	10379929018	06326.D	19:39

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06301BFB.D BFB Injection Date: 03/04/2017
Instrument ID: 10AIR7 BFB Injection Time: 06:29
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.12	
75	30.00 - 66.00% of mass 95	45.98	
96	5.00 - 9.00% of mass 95	6.77	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	112.98	
175	4.00 - 9.00% of mass 174	8.39	(7.43)
176	93.00 - 101.00% of mass 174	107.16	(94.84)
177	5.00 - 9.00% of mass 176	6.75	(6.30)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	06304.D	03/04/2017	08:10
2	CAL2	CAL2	06305.D	03/04/2017	08:33
3	CAL3	CAL3	06306.D	03/04/2017	08:57
4	CAL4	CAL4	06307.D	03/04/2017	09:22
5	CAL5	CAL5	06308.D	03/04/2017	09:46
6	CAL6	CAL6	06309.D	03/04/2017	10:10
7	CAL7	CAL7	06310.D	03/04/2017	10:36
8	ICV	ICV	06312.D	03/04/2017	11:23

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06401BFB.D BFB Injection Date: 03/05/2017
Instrument ID: 10AIR7 BFB Injection Time: 09:07
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.04	
75	30.00 - 66.00% of mass 95	47.99	
96	5.00 - 9.00% of mass 95	5.69	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	112.34	
175	4.00 - 9.00% of mass 174	8.36	(7.45)
176	93.00 - 101.00% of mass 174	106.07	(94.42)
177	5.00 - 9.00% of mass 176	7.10	(6.69)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06405.D	03/05/2017	10:57
2	CERT	CERT	06409.D	03/05/2017	12:57
3	VP-104_50_20170221	10379929006	06410.D	03/05/2017	13:20
4	VP-104_62_20170221	10379929007	06411.D	03/05/2017	13:43
5	VP-104_73_20170221	10379929008	06430.D	03/05/2017	21:26
6	VP-8D_62.5_20170221DUP	10379929017	06431.D	03/05/2017	21:49
7	VP-8D_72.5_20170221	10379929016	06432.D	03/05/2017	22:12
8	VP-8D_62.5_20170221	10379929015	06434.D	03/05/2017	22:56
9	VP-8D_53.5_20170221	10379929014	06435.D	03/05/2017	23:19

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06101BFB.D BFB Injection Date: 03/02/2017
Instrument ID: 10AIRB BFB Injection Time: 07:16
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.18	
75	30.00 - 66.00% of mass 95	48.17	
96	5.00 - 9.00% of mass 95	6.23	
173	Less than 2.00% of mass 174	0.90	(0.94)
174	50.00 - 120.00% of mass 95	95.41	
175	4.00 - 9.00% of mass 174	6.96	(7.30)
176	93.00 - 101.00% of mass 174	91.75	(96.16)
177	5.00 - 9.00% of mass 176	5.98	(6.52)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	06109.D	03/02/2017	11:19
2	CAL2	CAL2	06110.D	03/02/2017	11:46
3	CAL3	CAL3	06111.D	03/02/2017	12:14
4	CAL4	CAL4	06112.D	03/02/2017	12:43
5	CAL5	CAL5	06113.D	03/02/2017	13:10
6	CAL6	CAL6	06114.D	03/02/2017	13:39
7	CAL7	CAL7	06115.D	03/02/2017	14:08
8	ICV	ICV	06117.D	03/02/2017	15:02

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06201BFB.D BFB Injection Date: 03/03/2017
Instrument ID: 10AIRB BFB Injection Time: 07:09
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.79	
75	30.00 - 66.00% of mass 95	48.06	
96	5.00 - 9.00% of mass 95	6.55	
173	Less than 2.00% of mass 174	0.65	(0.70)
174	50.00 - 120.00% of mass 95	93.22	
175	4.00 - 9.00% of mass 174	6.75	(7.24)
176	93.00 - 101.00% of mass 174	89.65	(96.17)
177	5.00 - 9.00% of mass 176	5.82	(6.49)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06202.D	03/03/2017	07:37
2	LCS for HBN 462461 [AIR/27830]	2528756	06202_27830.D	03/03/2017	07:37
3	BLANK for HBN 462461 [AIR/2783	2528755	06204_27830.D	03/03/2017	08:54
4	CERT	CERT	06205.D	03/03/2017	09:25
5	VP-104_5_20170221	10379929001	06217.D	03/03/2017	15:49
6	VP-104_5_20170221(2522469DUP)	2529325-DUP	06218.D	03/03/2017	16:20
7	VP-104_10_20170221	10379929002	06219.D	03/03/2017	16:52
8	VP-104_19_20170221	10379929003	06221.D	03/03/2017	17:55
9	VP-104_30_20170221	10379929004	06222.D	03/03/2017	18:26
10	VP-104_40_20170221	10379929005	06223.D	03/03/2017	18:58
11	VP-104_50_20170221	10379929006	06224.D	03/03/2017	19:29
12	VP-104_62_20170221	10379929007	06225.D	03/03/2017	20:01

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06301BFB.D BFB Injection Date: 03/04/2017
Instrument ID: 10AIRB BFB Injection Time: 06:28
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.21	
75	30.00 - 66.00% of mass 95	46.92	
96	5.00 - 9.00% of mass 95	6.41	
173	Less than 2.00% of mass 174	0.94	(1.01)
174	50.00 - 120.00% of mass 95	93.87	
175	4.00 - 9.00% of mass 174	6.88	(7.33)
176	93.00 - 101.00% of mass 174	91.50	(97.48)
177	5.00 - 9.00% of mass 176	5.47	(5.98)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 462564 [AIR/27836]	2529400	06302_27836.D	03/04/2017	06:56
2	CCV	CCV	06302.D	03/04/2017	06:56
3	BLANK for HBN 462564 [AIR/2783	2529399	06312_27836.D	03/04/2017	12:20
4	VP-104_73_20170221	10379929008	06313.D	03/04/2017	12:51
5	FPM-20_5_20170221	10379929009	06314.D	03/04/2017	13:23
6	FPM-20_9.4_20170221	10379929010	06315.D	03/04/2017	13:54
7	VP-8_5_20170221	10379929011	06317.D	03/04/2017	14:53
8	VP-8_10_20170221	10379929012	06318.D	03/04/2017	15:25
9	VP-8_10_20170221(2522486DUP)	2529705-DUP	06319.D	03/04/2017	15:56
10	VP-8_20_20170221	10379929013	06320.D	03/04/2017	16:28
11	VP-8D_53.5_20170221	10379929014	06322.D	03/04/2017	17:34
12	VP-8D_62.5_20170221	10379929015	06323.D	03/04/2017	18:05
13	VP-8D_72.5_20170221	10379929016	06324.D	03/04/2017	18:36
14	VP-8D_62.5_20170221DUP	10379929017	06325.D	03/04/2017	19:08
15	FPM-20_5_20170221DUP	10379929018	06326.D	03/04/2017	19:39

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/05/2017

Lab File ID (Standard): 06405.D Time Analyzed: 10:57

Instrument ID: 10AIR7 Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
07	24 HOUR STANDARD	721634	4.504	477369	7.311
07	UPPER LIMIT	1443268	5.004	954738	7.811
07	LOWER LIMIT	360817	4.004	238684	6.811
07	EPA SAMPLE NO.				
07	VP-104_50_20170221	724530	4.498	456121	7.305
07	VP-104_62_20170221	717049	4.501	461020	7.308
07	VP-104_73_20170221	611505	4.498	379949	7.305
07	VP-8D_62.5_20170221DUP	603896	4.501	373279	7.308
07	VP-8D_72.5_20170221	597566	4.497	378473	7.304
07	VP-8D_62.5_20170221	605858	4.504	384824	7.308
07	VP-8D_53.5_20170221	597970	4.494	378077	7.305

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/03/2017

Lab File ID (Standard): 06202.D Time Analyzed: 07:37

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
09	24 HOUR STANDARD	1420913	5.610	965665	8.645
09	UPPER LIMIT	2841826	6.110	1931330	9.145
09	LOWER LIMIT	710456	5.110	482832	8.145
09	EPA SAMPLE NO.				
09	LCS for HBN 462461 [AIR/27830]	1420913	5.610	965665	8.645
09	BLANK for HBN 462461 [AIR/2783	1440039	5.597	943095	8.639
09	VP-104 5 20170221	1311746	5.594	822501	8.639
09	VP-104 5 20170221(2522469DUP)	1187126	5.594	826227	8.636
09	VP-104 10 20170221	1339650	5.597	871754	8.639
09	VP-104 19 20170221	1264374	5.601	843136	8.639
09	VP-104 30 20170221	1203229	5.604	788753	8.639
09	VP-104 40 20170221	1206720	5.604	830964	8.639
09	VP-104_62_20170221	1218911	5.604	844590	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/04/2017

Lab File ID (Standard): 06302.D Time Analyzed: 06:56

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
12	24 HOUR STANDARD	1504620	5.613	1015806	8.645
12	UPPER LIMIT	3009240	6.113	2031612	9.145
12	LOWER LIMIT	752310	5.113	507903	8.145
12	EPA SAMPLE NO.				
12	LCS for HBN 462564 [AIR/27836]	1504620	5.613	1015806	8.645
12	BLANK for HBN 462564 [AIR/2783	1372533	5.600	883257	8.639
12	VP-104_73_20170221	1297074	5.610	842729	8.645
12	FPM-20_5_20170221	1149910	5.600	780258	8.639
12	FPM-20_9.4_20170221	1286952	5.597	839829	8.639
12	VP-8_5_20170221	1246226	5.600	811933	8.639
12	VP-8_10_20170221	1314267	5.600	848214	8.639
12	VP-8_10_20170221(2522486DUP)	1250767	5.594	817123	8.639
12	VP-8_20_20170221	1219271	5.597	809603	8.639
12	VP-8D_53.5_20170221	1190438	5.629	796314	8.649
12	VP-8D_62.5_20170221DUP	1293727	5.620	845977	8.645
12	FPM-20_5_20170221DUP	1225511	5.601	812001	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_5_20170221 **Lab ID: 10379929001** Collected: 02/21/17 12:36 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.1**	ug/m3	4.2	1.5	1.75		03/03/17 15:49	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 15:49	107-05-1	
Benzene	**0.63**	ug/m3	0.57	0.21	1.75		03/03/17 15:49	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 15:49	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 15:49	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 15:49	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 15:49	106-99-0	
2-Butanone (MEK)	**3.0J**	ug/m3	5.2	0.40	1.75		03/03/17 15:49	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 15:49	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/03/17 15:49	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 15:49	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/03/17 15:49	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 15:49	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/03/17 15:49	67-66-3	
Chloromethane	**0.95**	ug/m3	0.74	0.19	1.75		03/03/17 15:49	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 15:49	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 15:49	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 15:49	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 15:49	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 15:49	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 15:49	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 15:49	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 15:49	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.8	0.84	1.75		03/03/17 15:49	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 15:49	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 15:49	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 15:49	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/03/17 15:49	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/03/17 15:49	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 15:49	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 15:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 15:49	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 15:49	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 15:49	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 15:49	123-91-1	
Ethylbenzene	**1.0J**	ug/m3	1.5	0.74	1.75		03/03/17 15:49	100-41-4	
4-Ethyltoluene	**1.1J**	ug/m3	1.8	0.33	1.75		03/03/17 15:49	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 15:49	87-68-3	
n-Hexane	**1.4**	ug/m3	1.3	0.62	1.75		03/03/17 15:49	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 15:49	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 15:49	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 15:49	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 15:49	108-87-2	
Methylene Chloride	**32.0**	ug/m3	6.2	0.95	1.75		03/03/17 15:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 15:49	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 15:49	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D
Report Date: 04-Mar-2017 07:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030317.b\06217.D
Lab Smp Id: 10379929001
Inj Date : 03-MAR-2017 15:49
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Meth Date : 04-Mar-2017 07:02 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 17
Dil Factor: 1.75100
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.751	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	2.976	3.005	(0.532)	48240	6.27279	11.0(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.021	3.050	(0.540)	12000	0.24524	0.429	
6	Chloromethane	50	3.114	3.146	(0.557)	3912	0.25956	0.454	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.532	3.542	(0.632)	76063	15.7811	27.6	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.632	3.671	(0.649)	4680	0.13014	0.228	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.703	3.719	(0.662)	79157	3.80327	6.66	
19	Isopropyl Alcohol	45	3.767	3.764	(0.674)	25404	1.19682	2.10	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.915	3.944	(0.700)	1422	0.05236	0.0917	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D
Report Date: 04-Mar-2017 07:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.967	4.002	(0.709)	76037	5.17615	9.06	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.471	4.487	(0.799)	410351	9.83262	9.83	
	33 Methyl Ethyl Ketone	72	4.549	4.555	(0.813)	3068	0.56399	0.988(Q)	
	34 n-Hexane	57	4.568	4.584	(0.817)	4626	0.22115	0.387(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.442	5.465	(0.973)	4725	0.11169	0.196	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.593	5.609	(1.000)	1311746	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.072	(1.263)	1125758	9.58868	9.59	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.140	7.153	(1.276)	18338	0.34613	0.606	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.580	(0.876)	2855	0.10148	0.178(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	822501	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.934	(1.034)	8121	0.13424	0.235	
	70 m&p-Xylene	91	9.072	9.079	(1.050)	26039	0.54840	0.960	
	71 n-Nonane	43	9.465	9.468	(1.096)	7138	0.29146	0.510(M)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.571	9.577	(1.108)	7173	0.14849	0.260	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D
Report Date: 04-Mar-2017 07:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.908	10.911	(1.263)	2239	0.13088	0.229(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.371	11.378	(2.033)	14104	0.64790	1.13	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.503	11.513	(1.332)	6629	0.13568	0.238	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	463604	10.2321	10.2	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.156	(1.641)	22079	0.98276	1.72	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D
Report Date: 04-Mar-2017 07:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06217.D
Lab Smp Id: 10379929001
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Misc Info: 27830

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

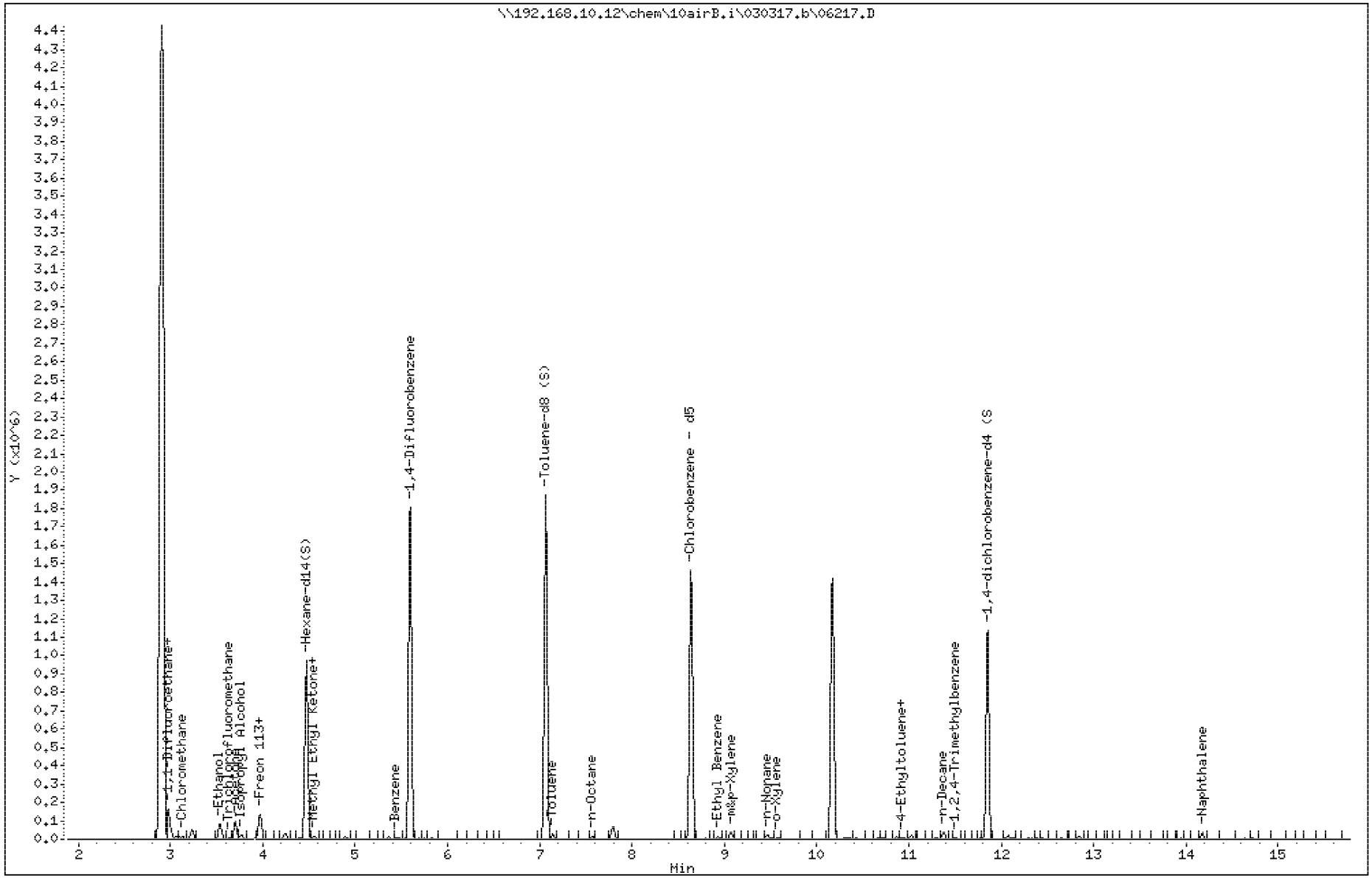
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1311746	-7.24
67 Chlorobenzene - d	951026	570616	1331436	822501	-13.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.28
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D
Date : 03-MAR-2017 15:49
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

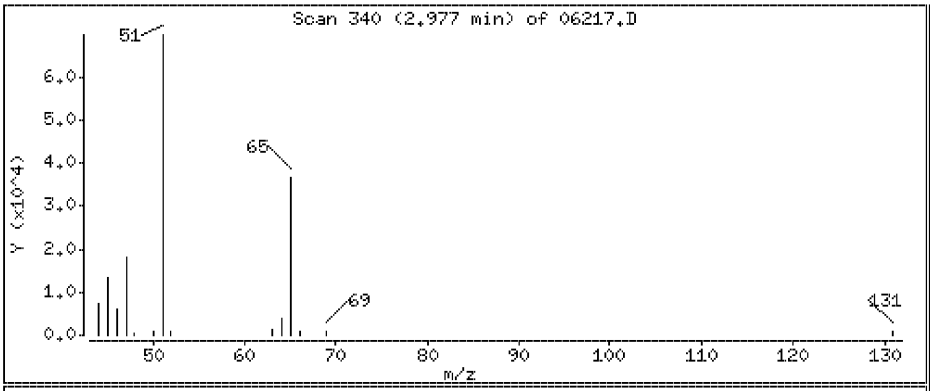
Operator: MJL

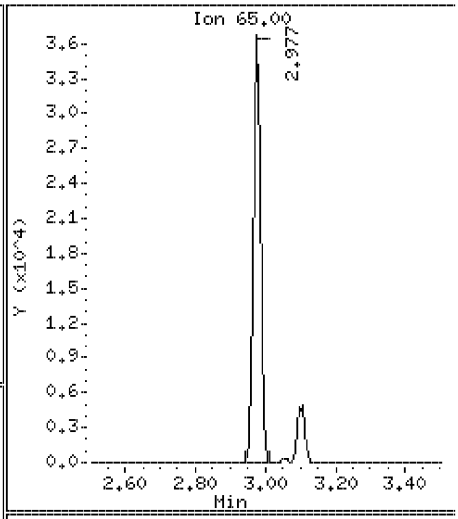
Column phase: J&W DB-5

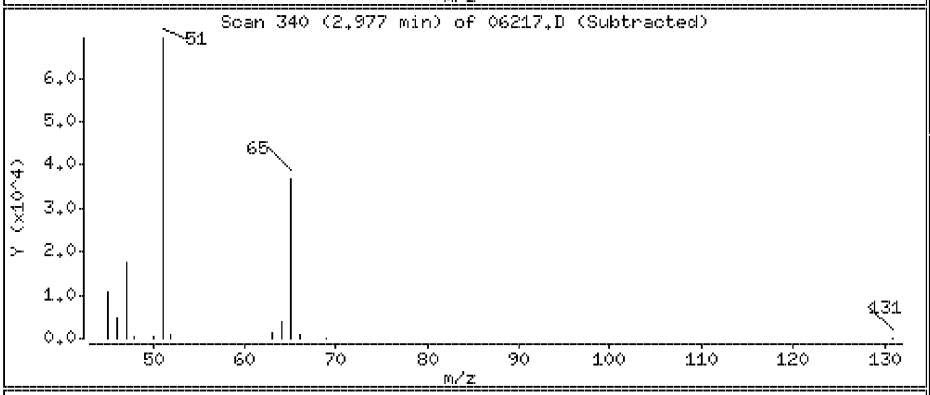
Column diameter: 0.32

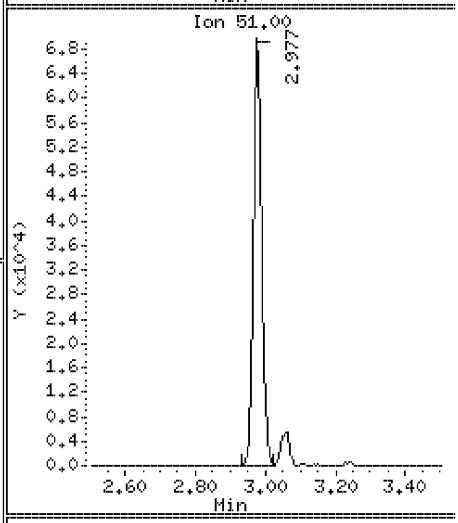
2 1,1-Difluoroethane

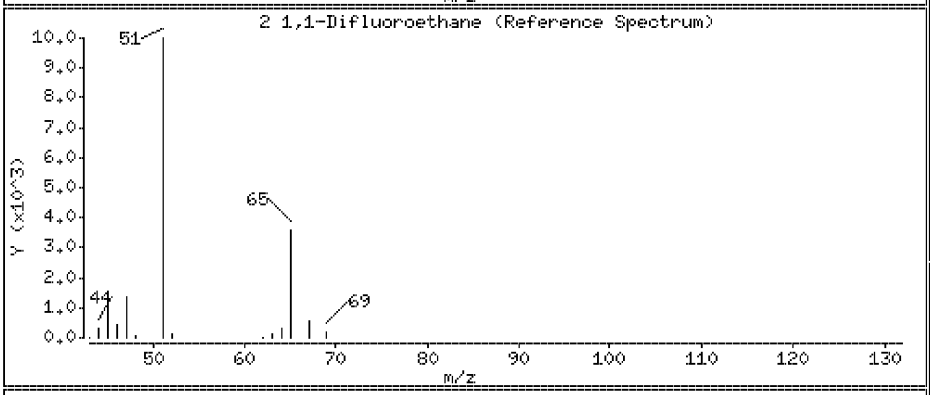
Concentration: 11.0 ppbv

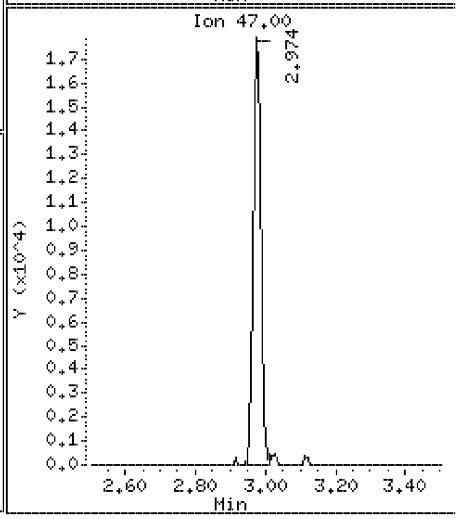


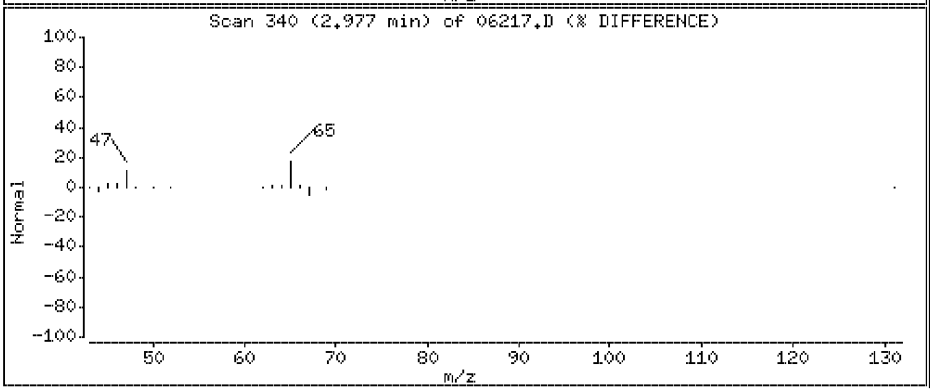












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

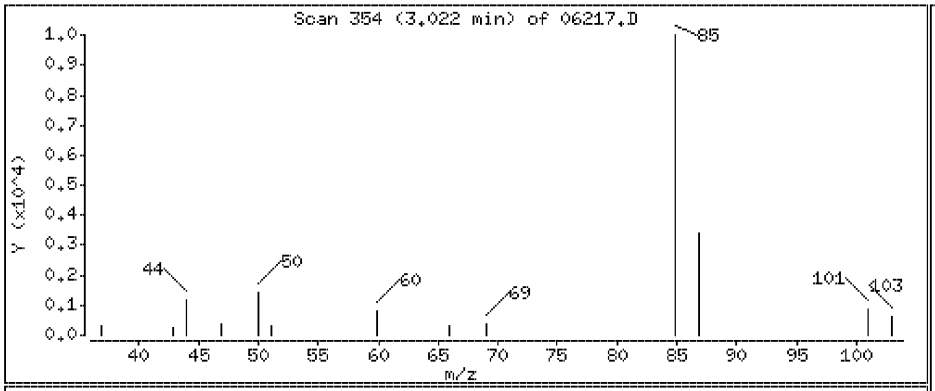
Operator: MJL

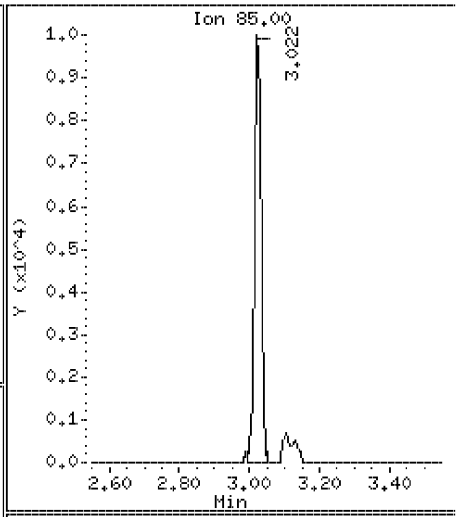
Column phase: J&W DB-5

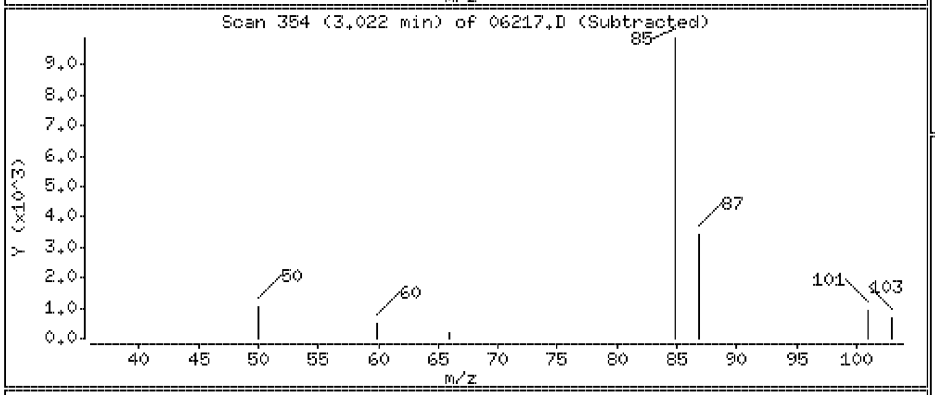
Column diameter: 0.32

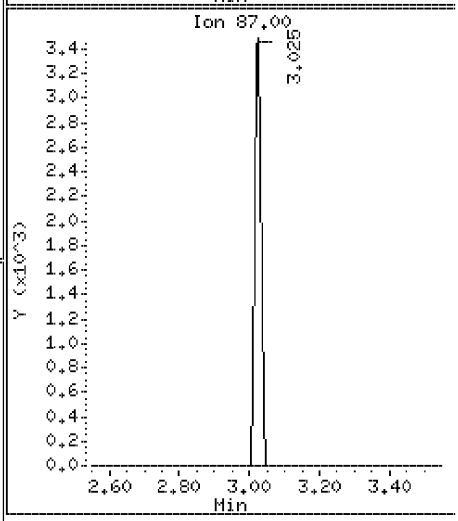
5 Dichlorodifluoromethane

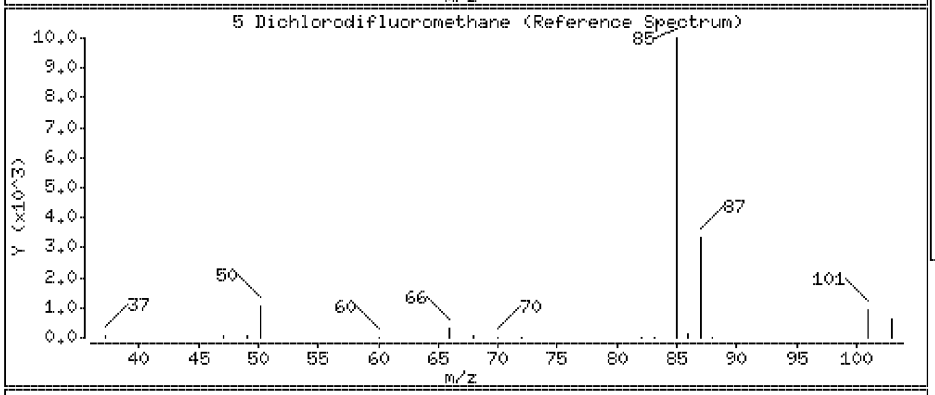
Concentration: 0.429 ppbv

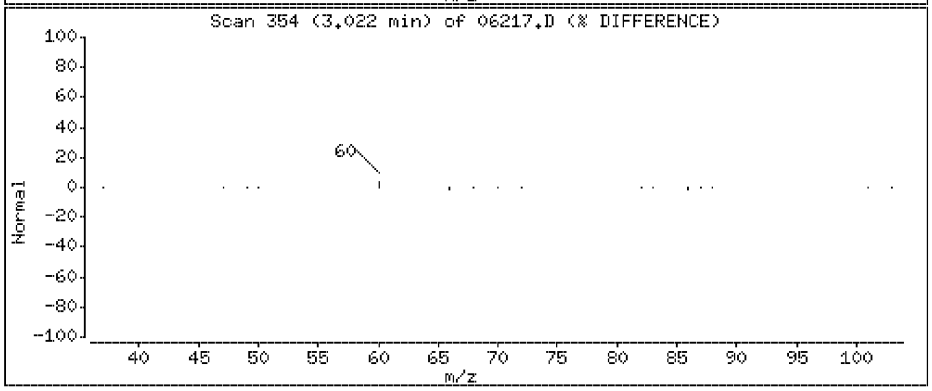












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

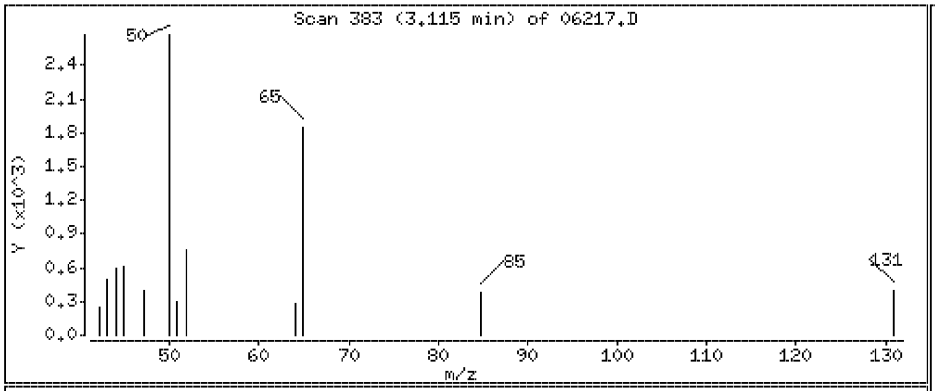
Operator: MJL

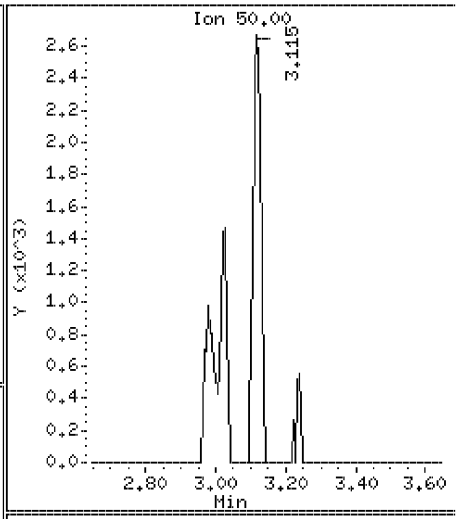
Column phase: J&W DB-5

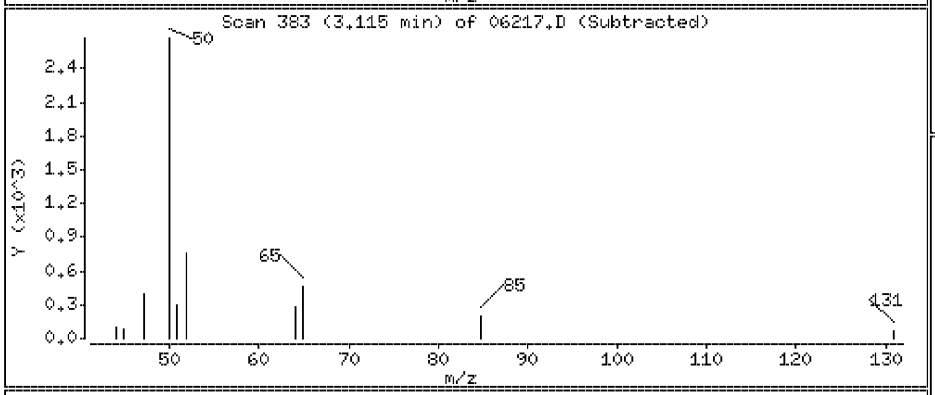
Column diameter: 0.32

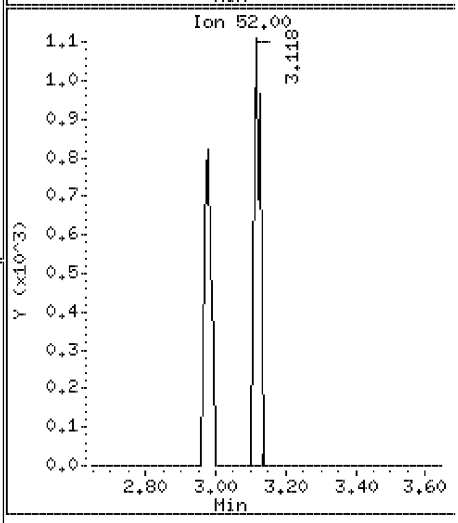
6 Chloromethane

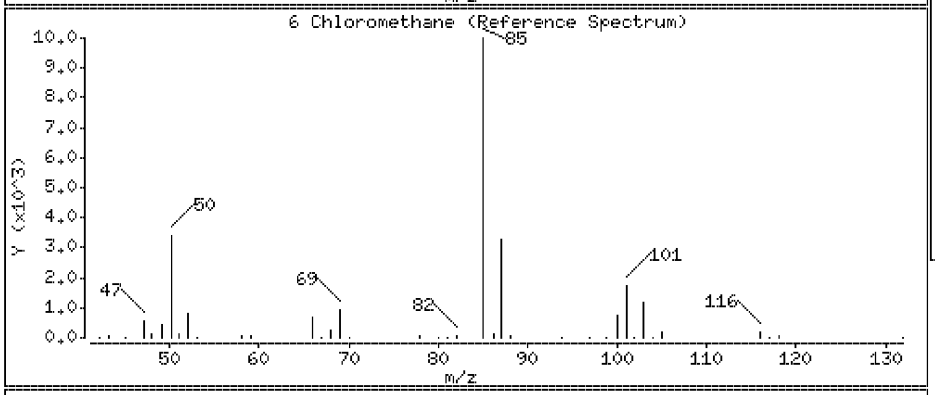
Concentration: 0.454 ppbv

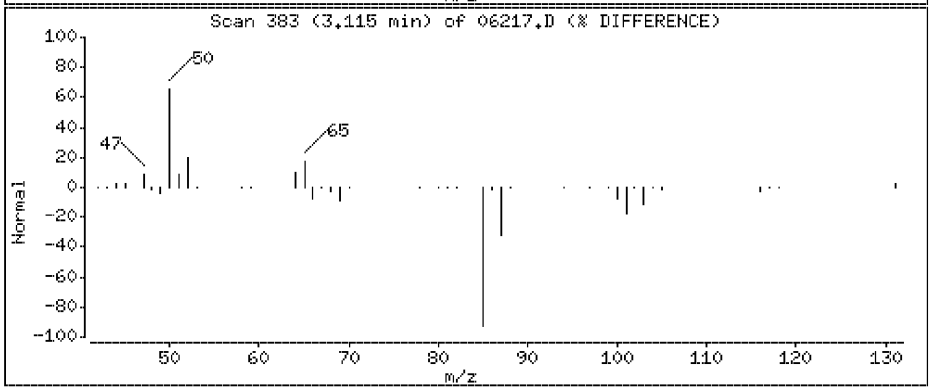












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

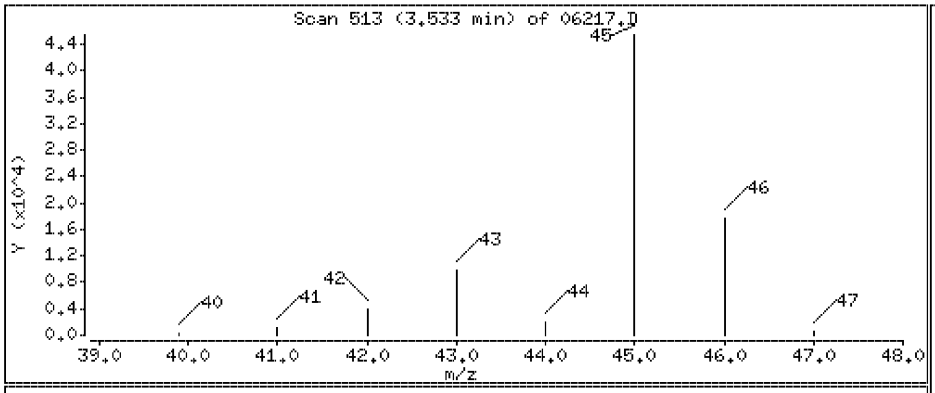
Operator: MJL

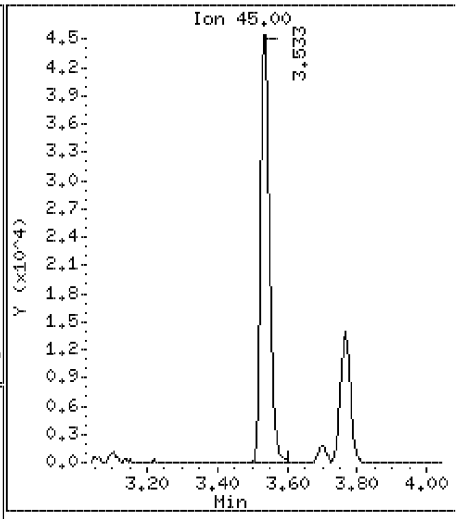
Column phase: J&W DB-5

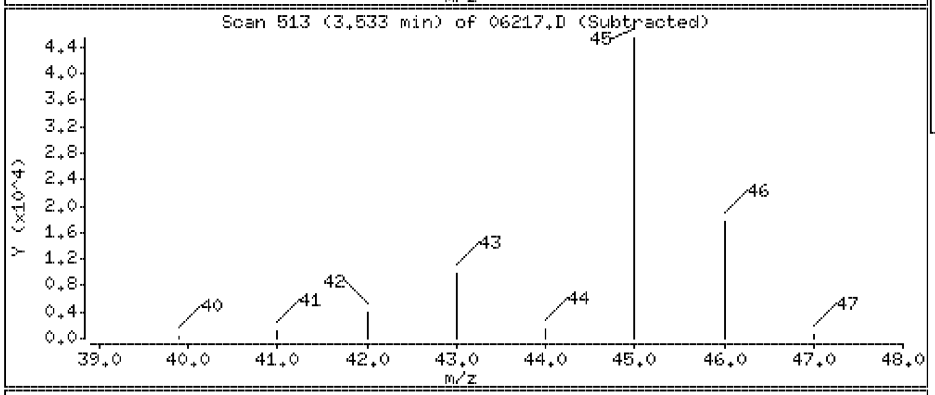
Column diameter: 0.32

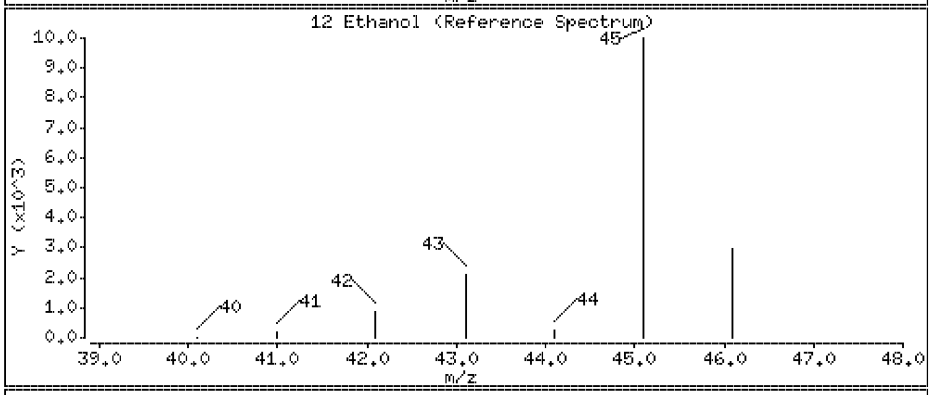
12 Ethanol

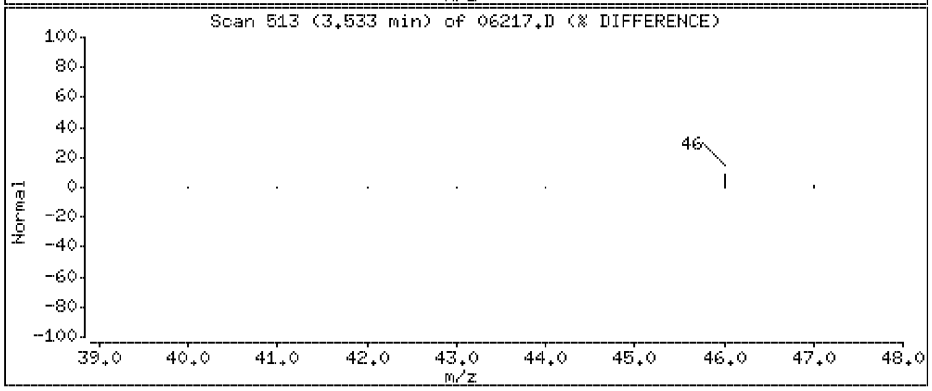
Concentration: 27.6 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

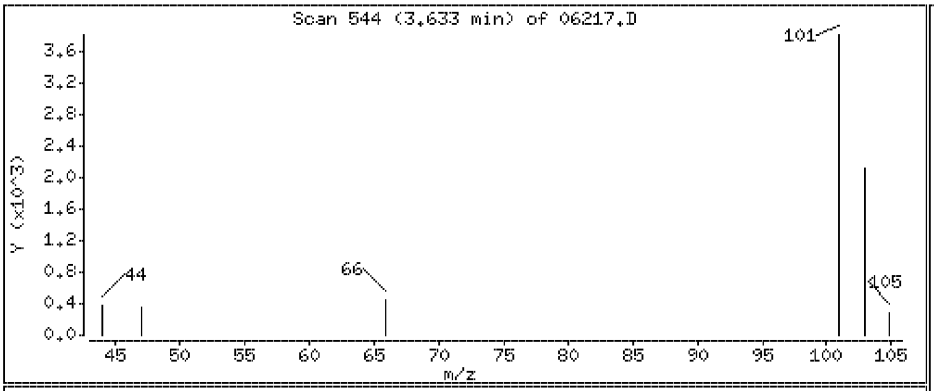
Operator: MJL

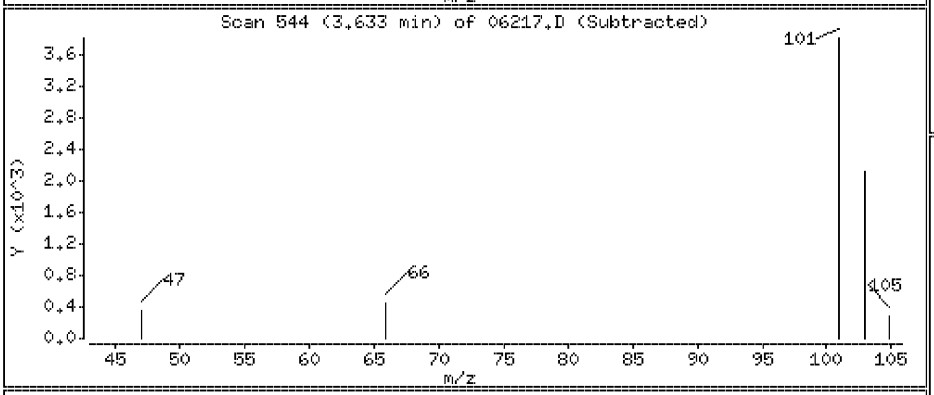
Column phase: J&W DB-5

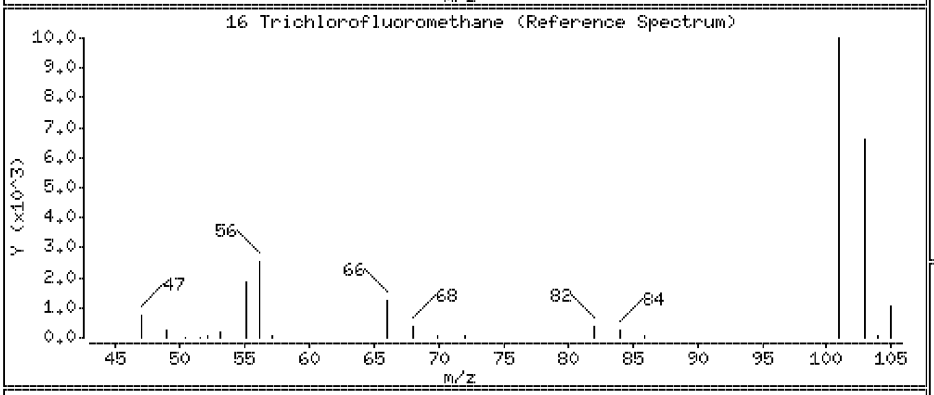
Column diameter: 0.32

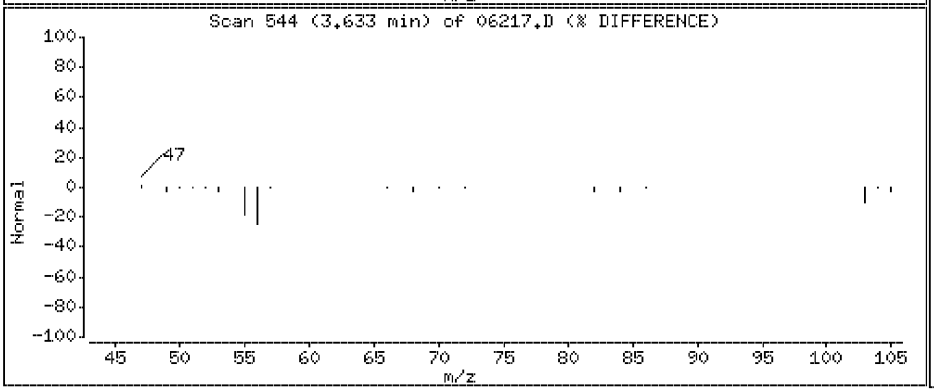
16 Trichlorofluoromethane

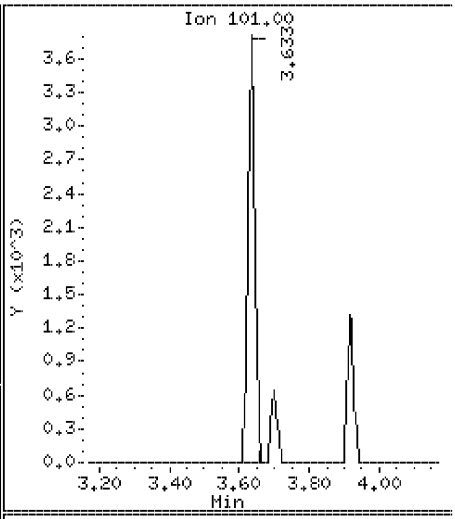
Concentration: 0.228 ppbv

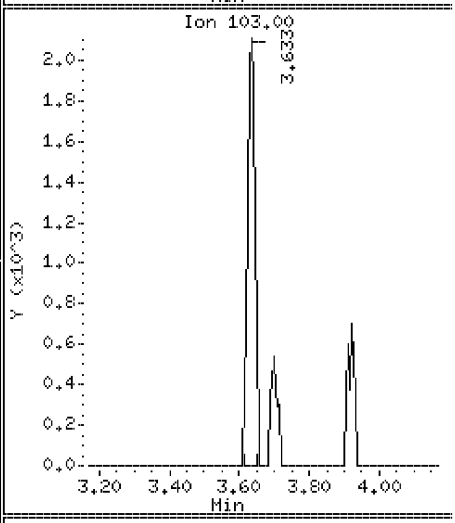


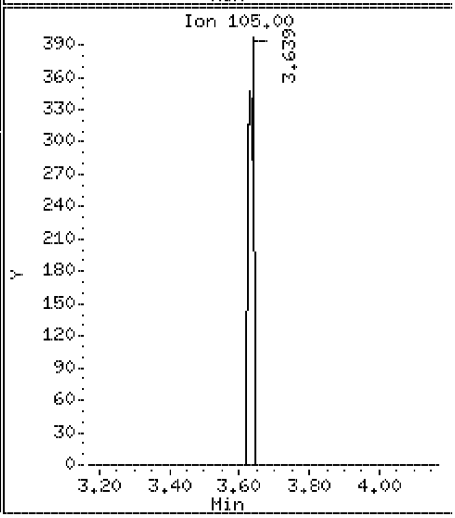












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

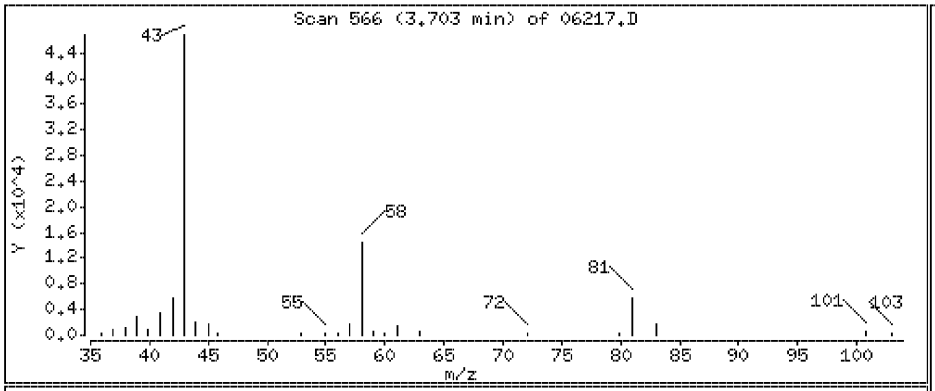
Operator: MJL

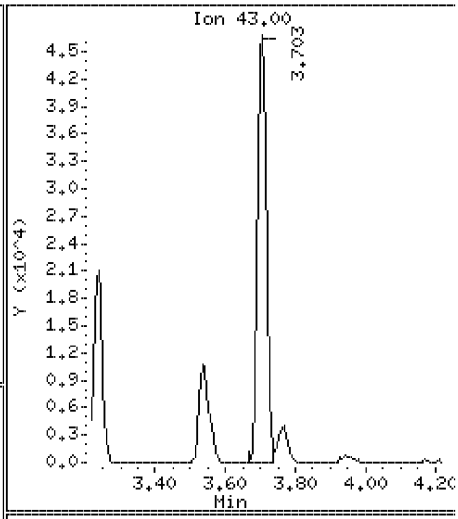
Column phase: J&W DB-5

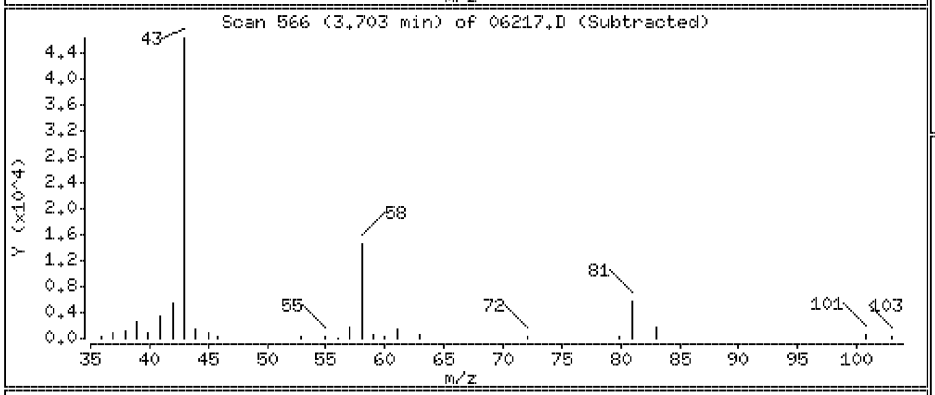
Column diameter: 0.32

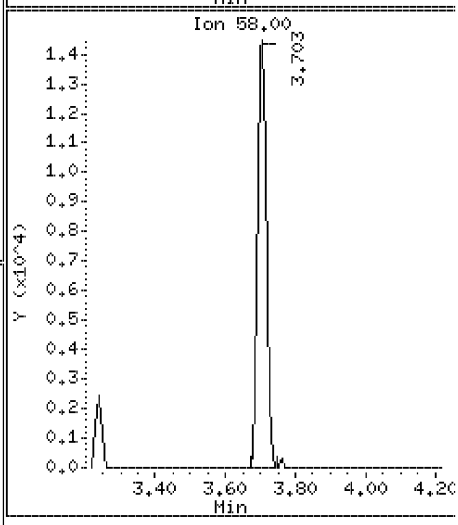
18 Acetone

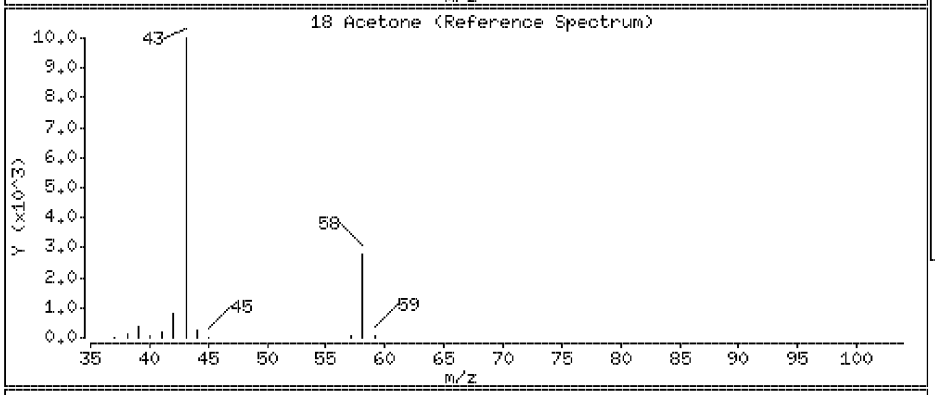
Concentration: 6.66 ppbv

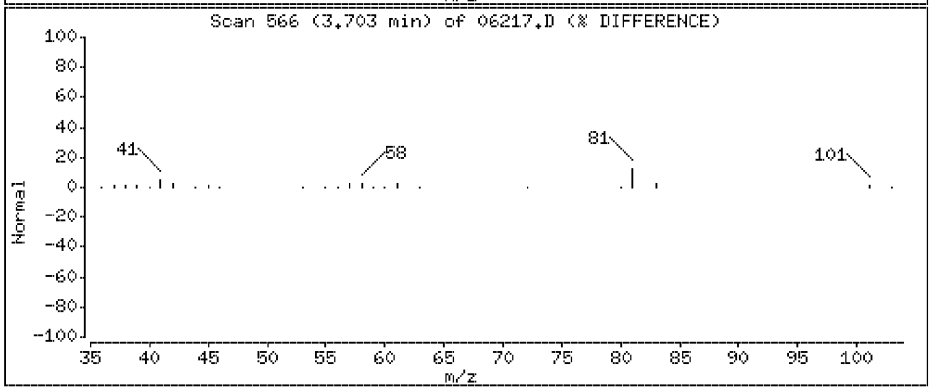












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

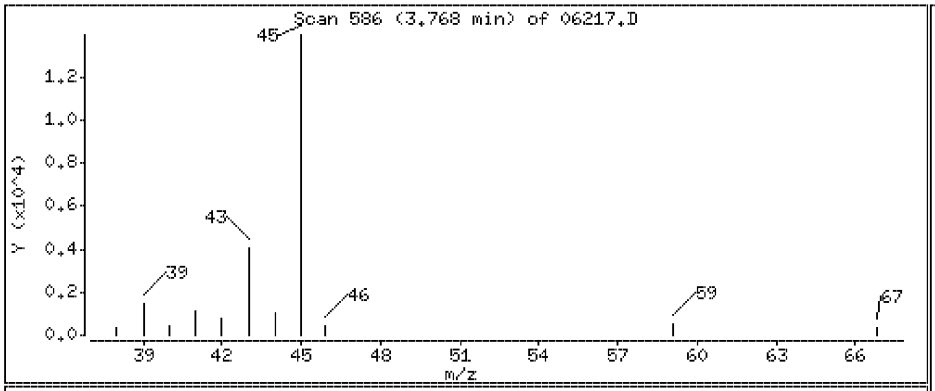
Operator: MJL

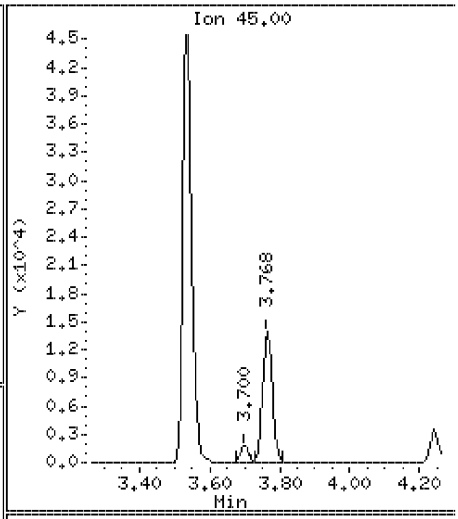
Column phase: J&W DB-5

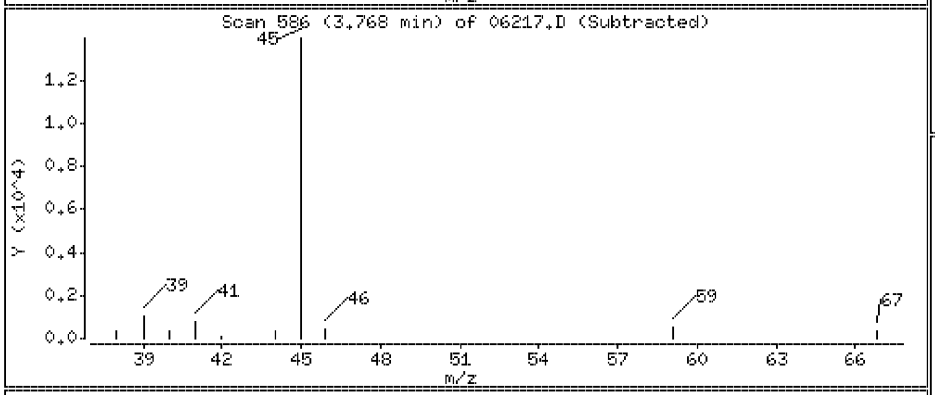
Column diameter: 0.32

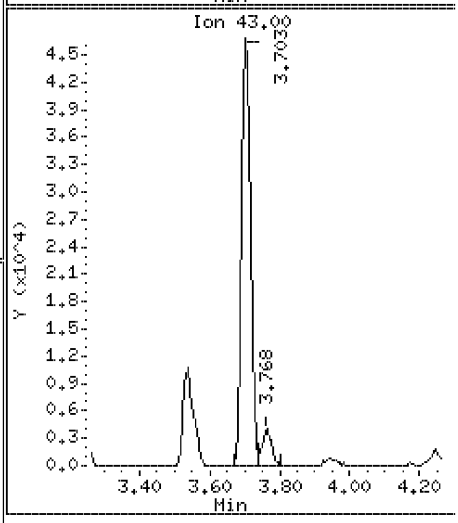
19 Isopropyl Alcohol

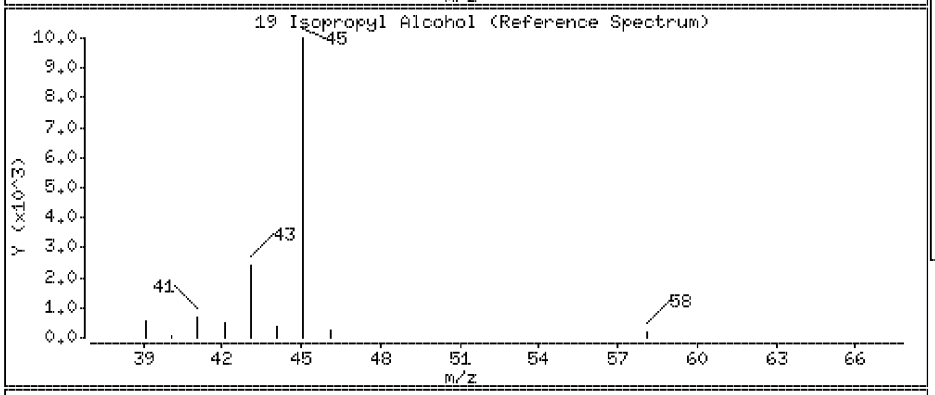
Concentration: 2.10 ppbv

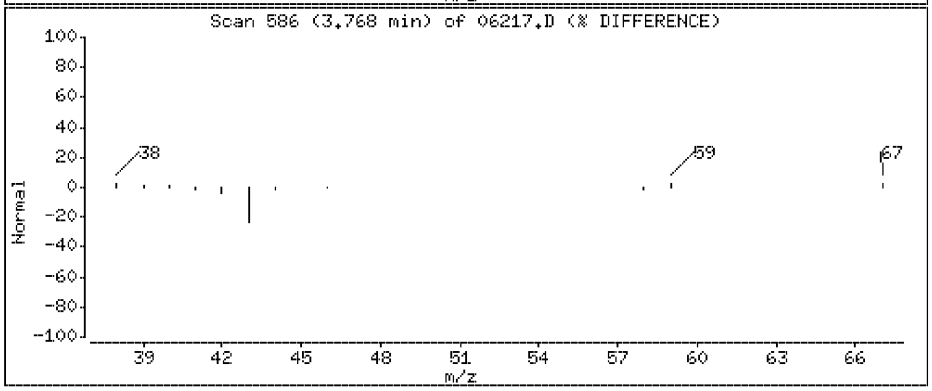












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

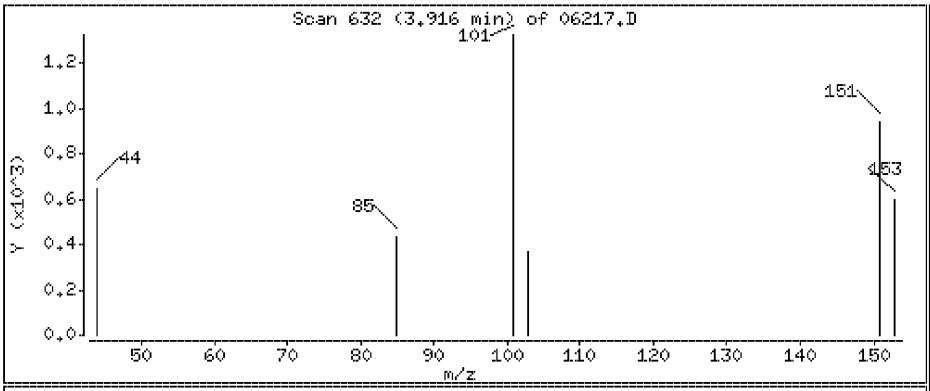
Operator: MJL

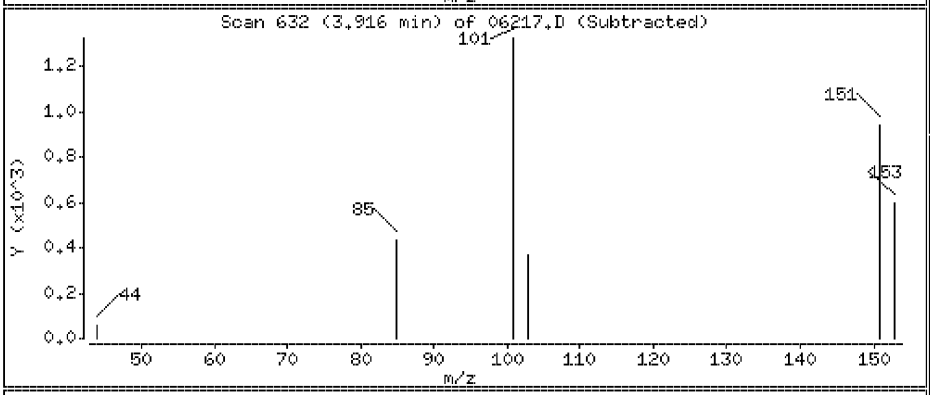
Column phase: J&W DB-5

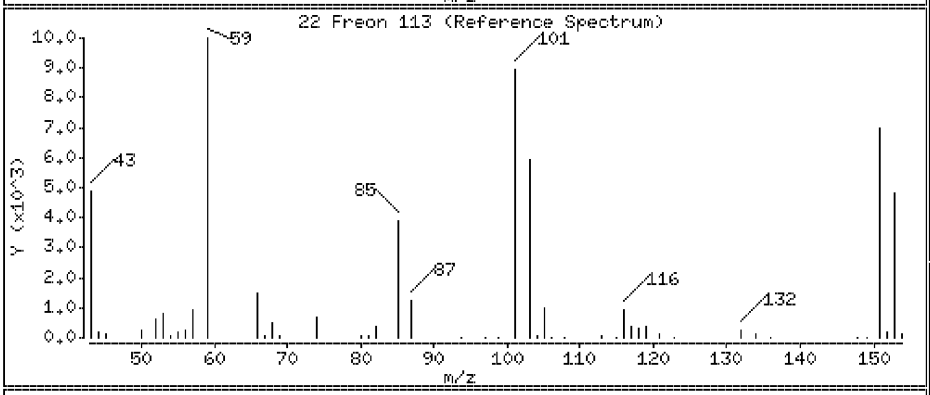
Column diameter: 0.32

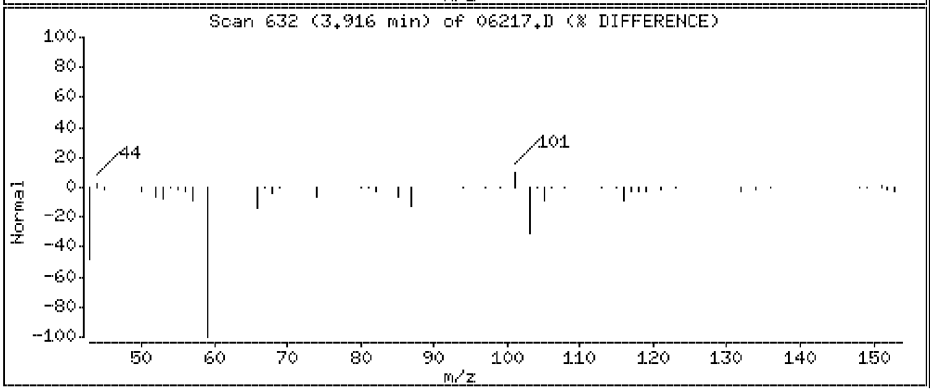
22 Freon 113

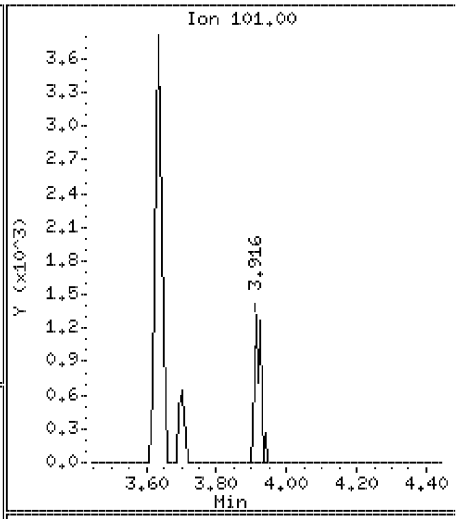
Concentration: 0.0917 ppbv

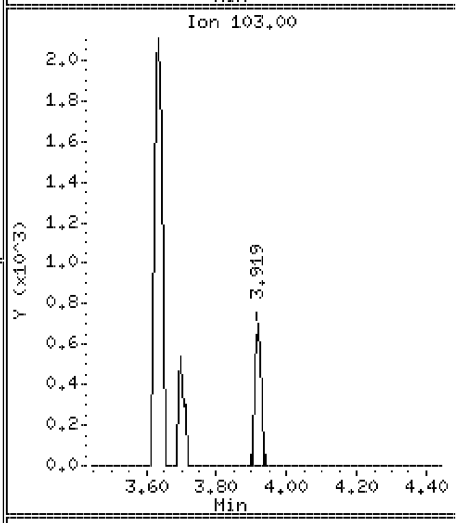


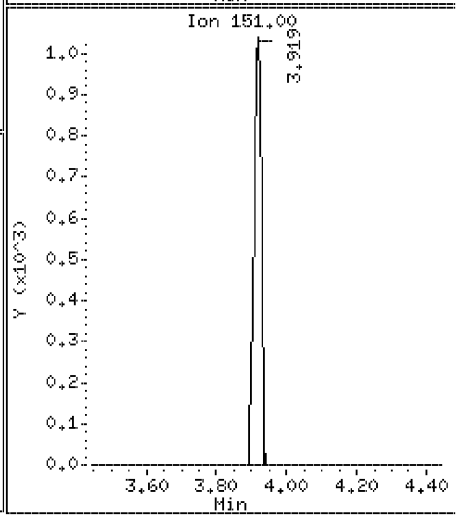












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

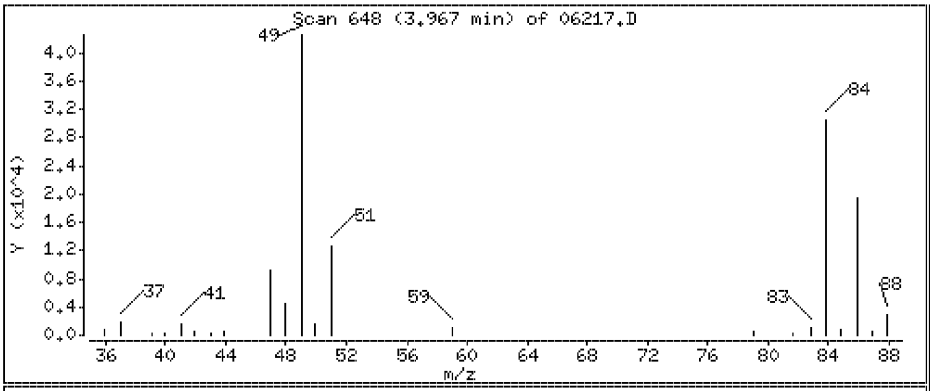
Operator: MJL

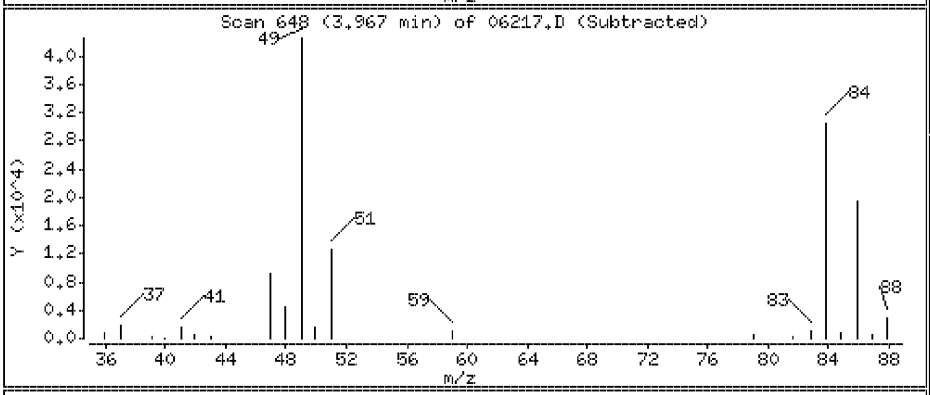
Column phase: J&W DB-5

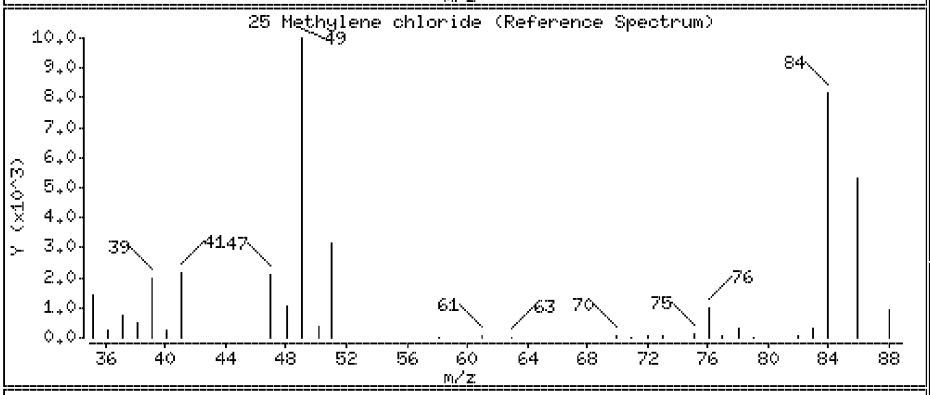
Column diameter: 0.32

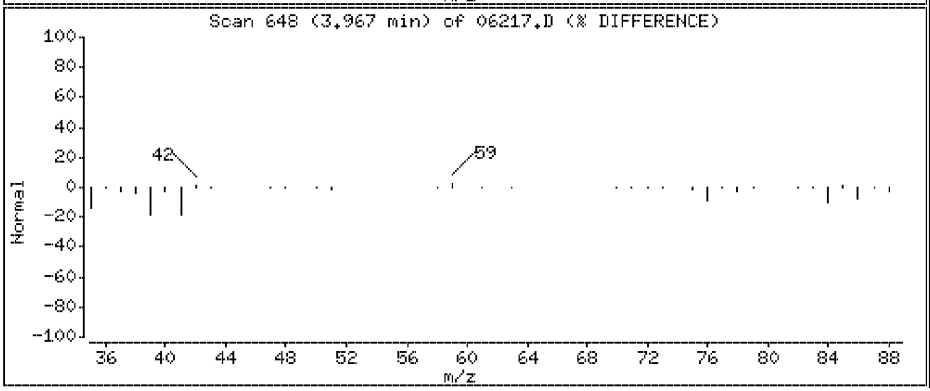
25 Methylene chloride

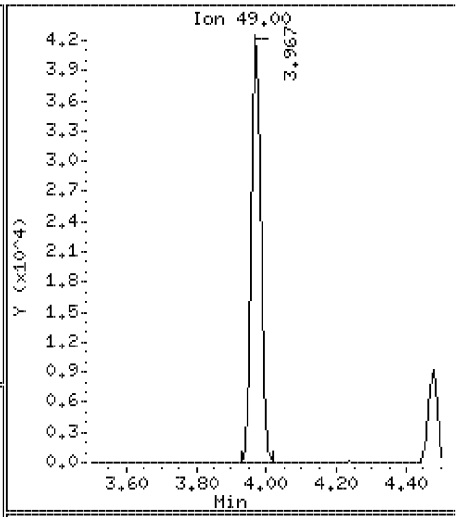
Concentration: 9.06 ppbv

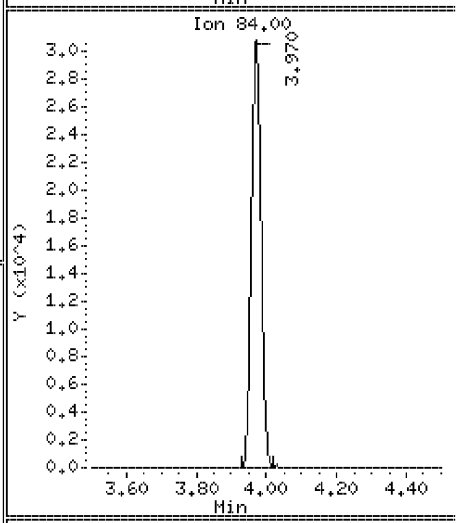


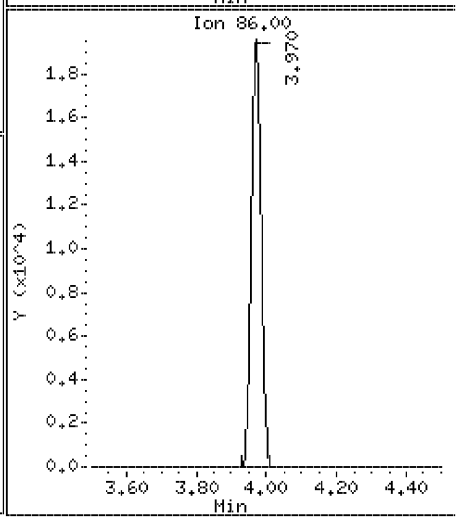












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

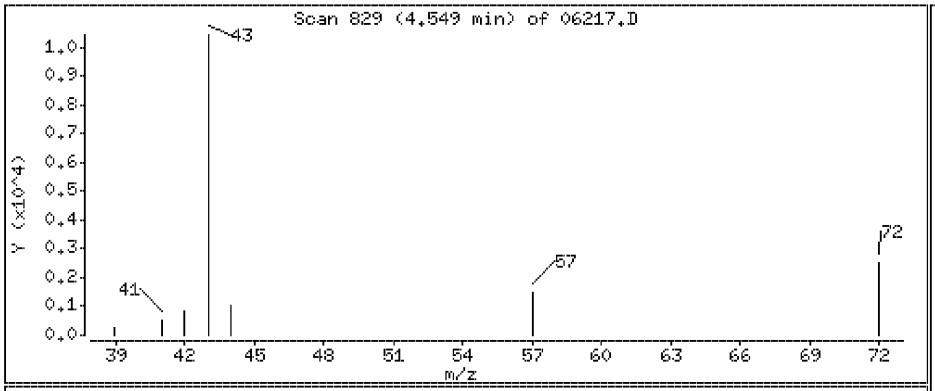
Operator: MJL

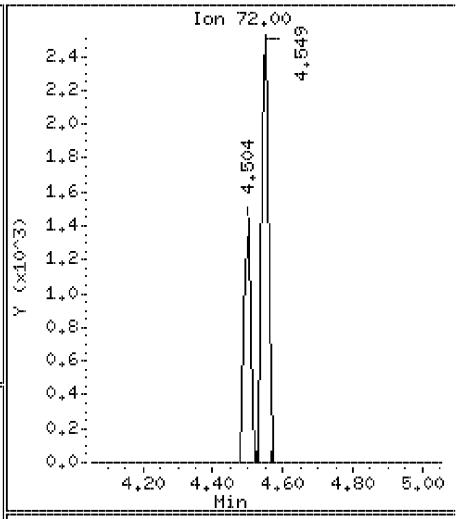
Column phase: J&W DB-5

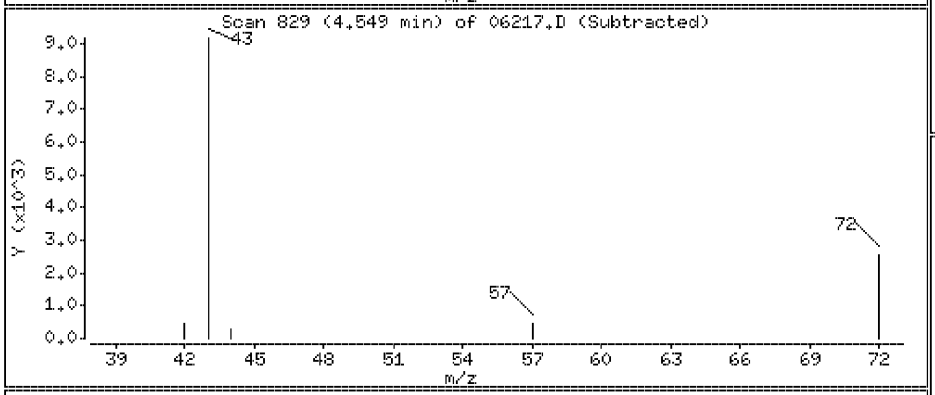
Column diameter: 0.32

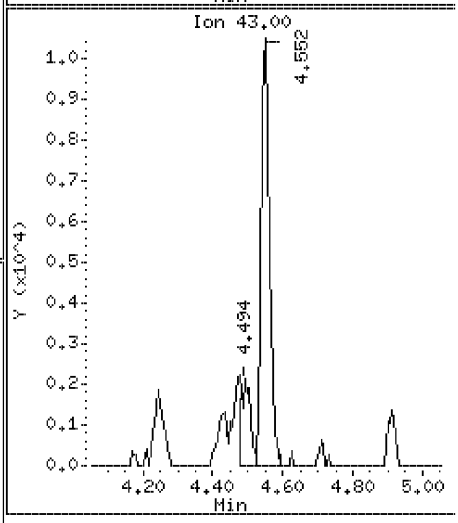
33 Methyl Ethyl Ketone

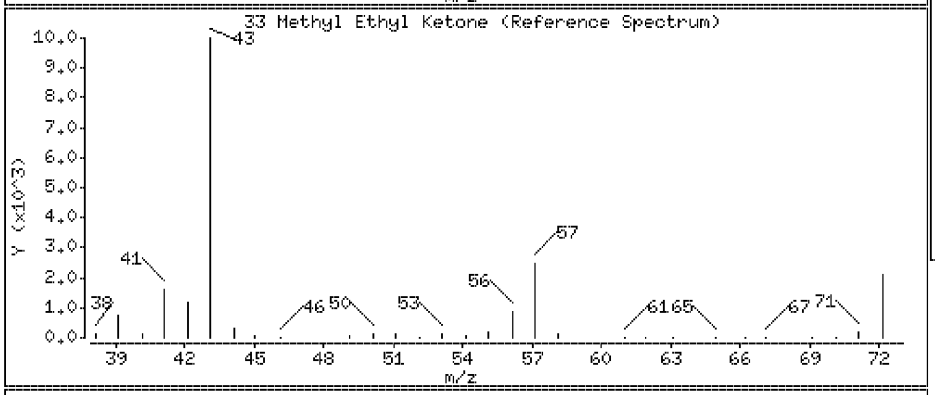
Concentration: 0.988 ppbv

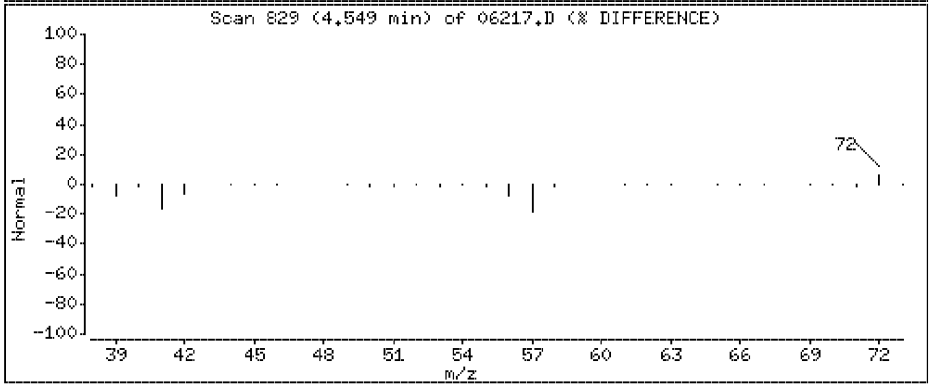












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

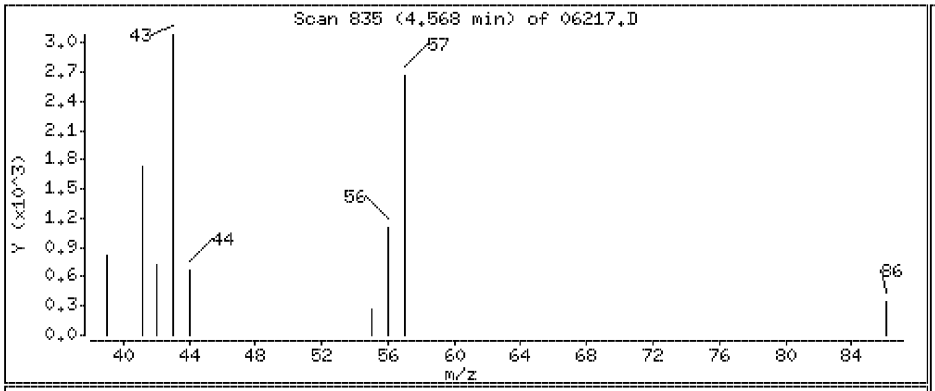
Operator: MJL

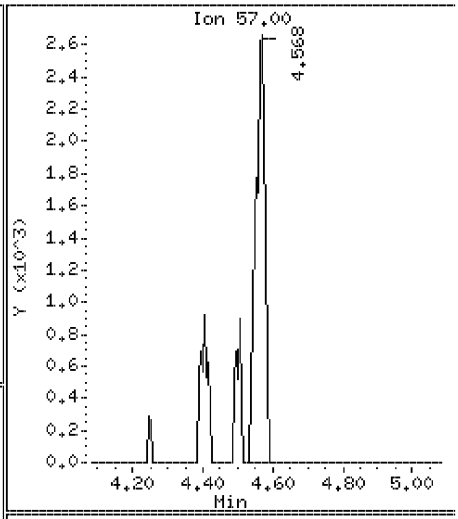
Column phase: J&W DB-5

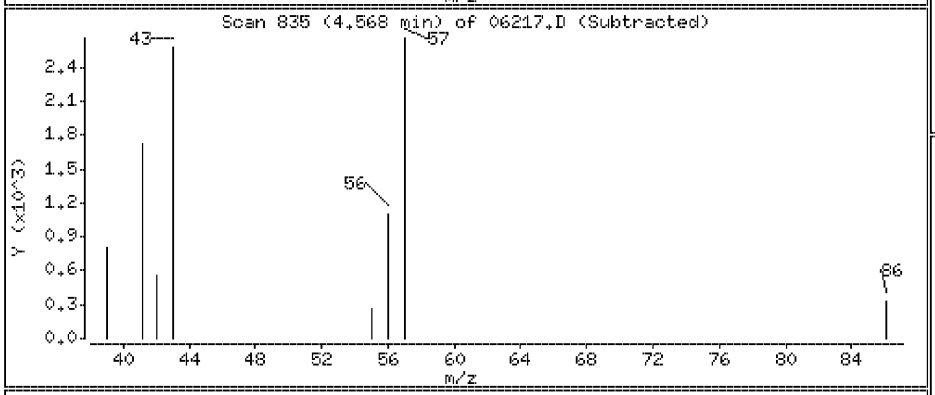
Column diameter: 0.32

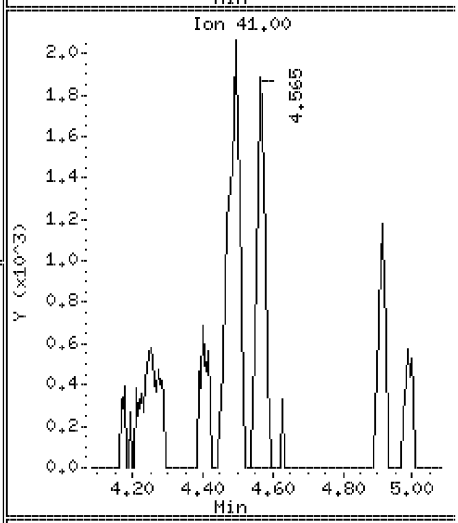
34 n-Hexane

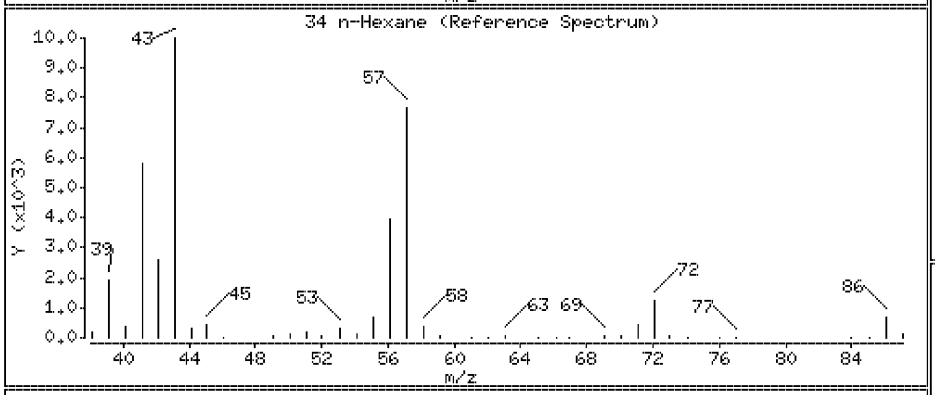
Concentration: 0.387 ppbv

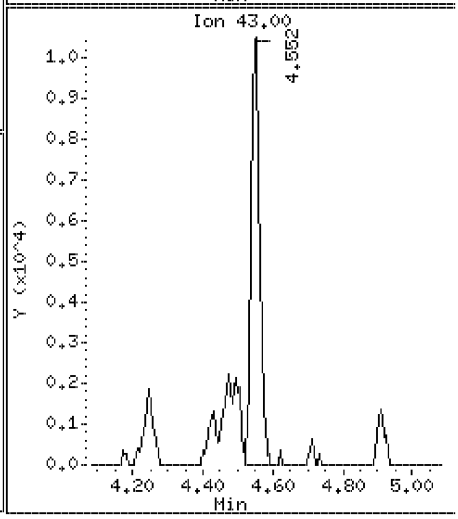


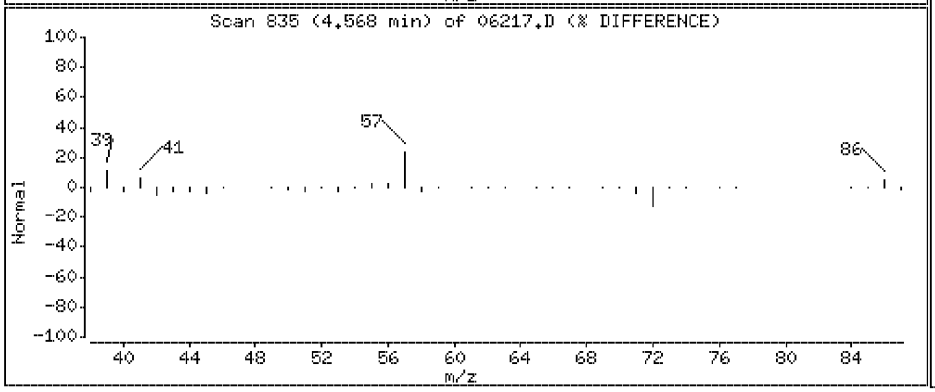












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

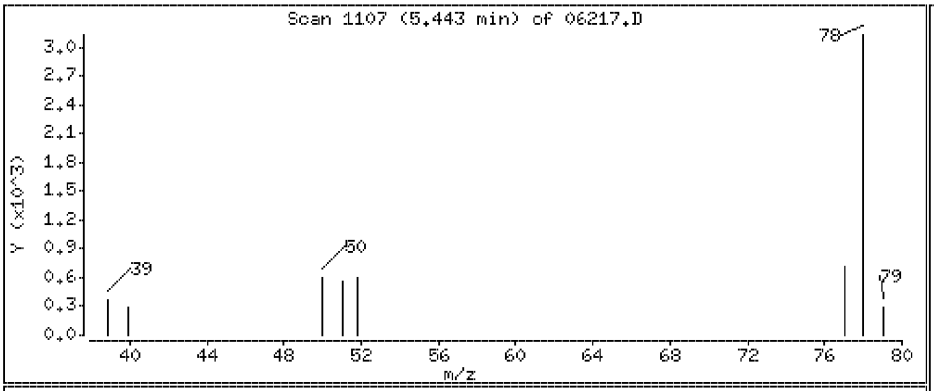
Operator: MJL

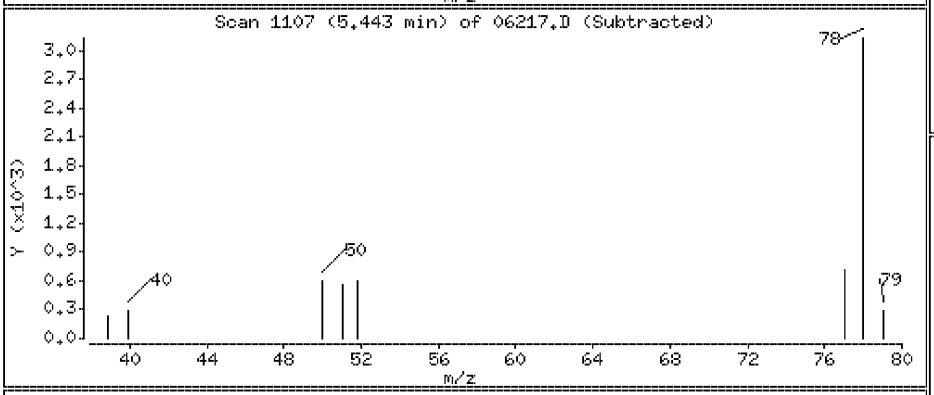
Column phase: J&W DB-5

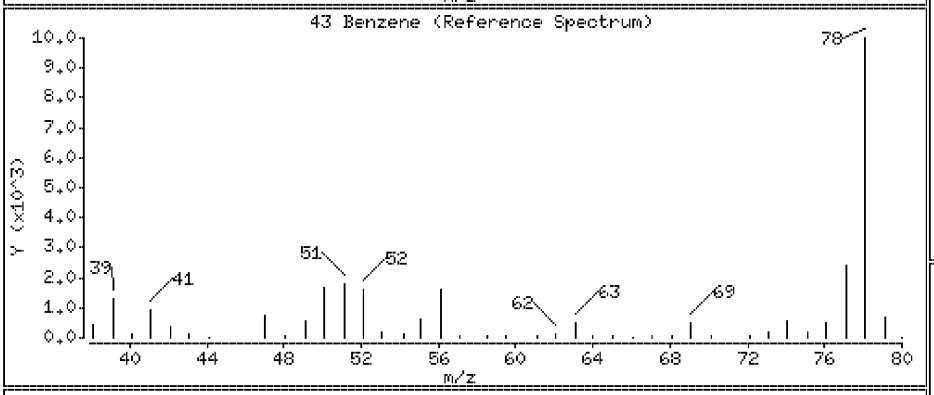
Column diameter: 0.32

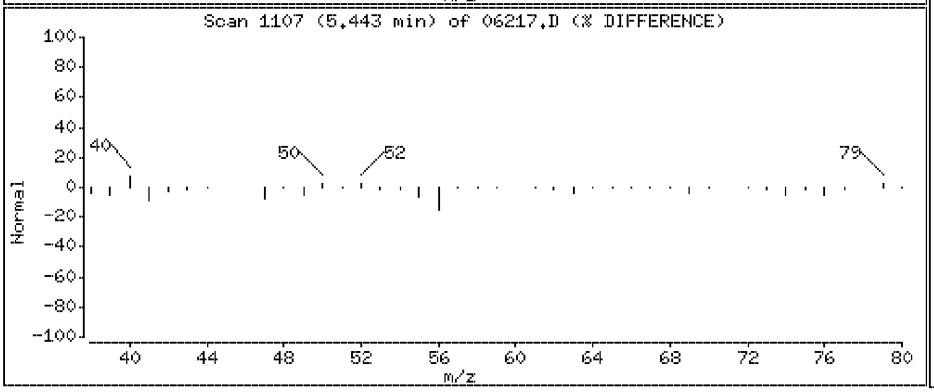
43 Benzene

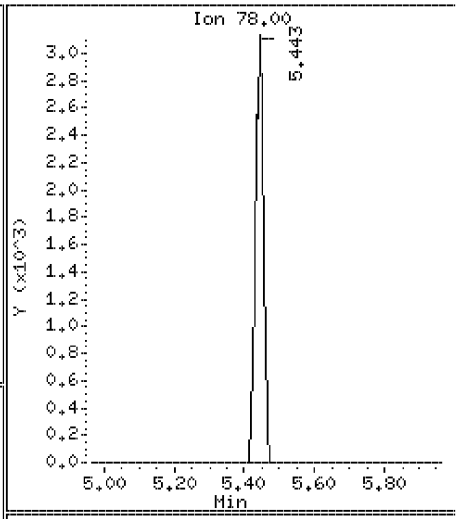
Concentration: 0.196 ppbv

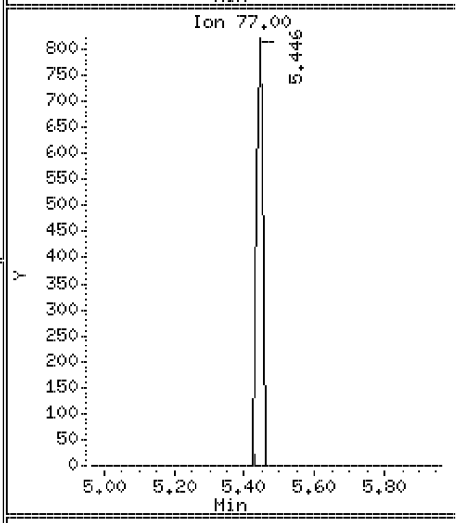


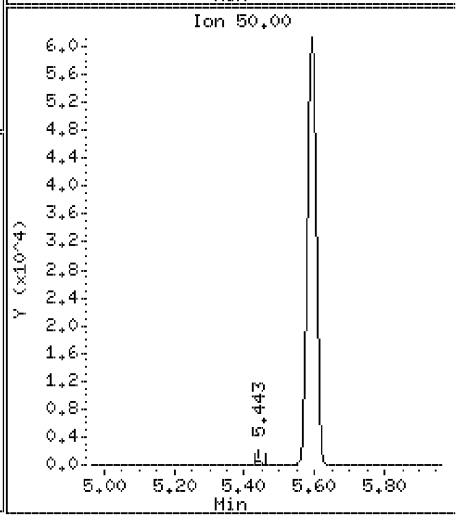












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

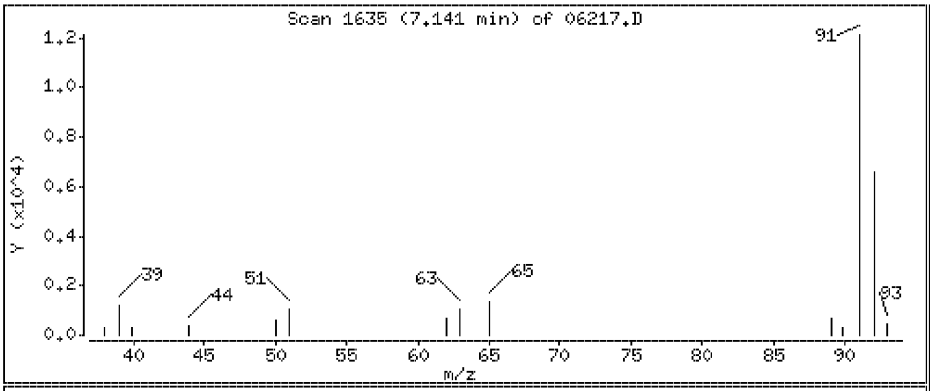
Operator: MJL

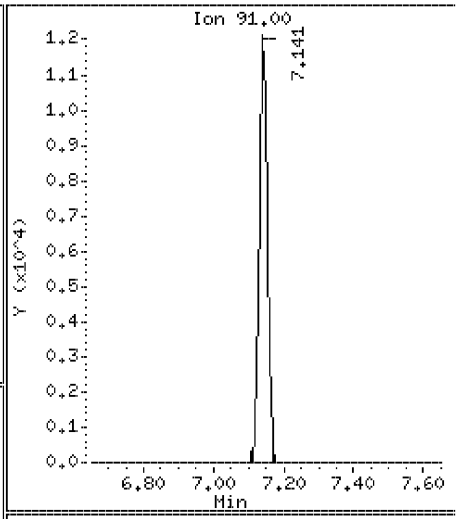
Column phase: J&W DB-5

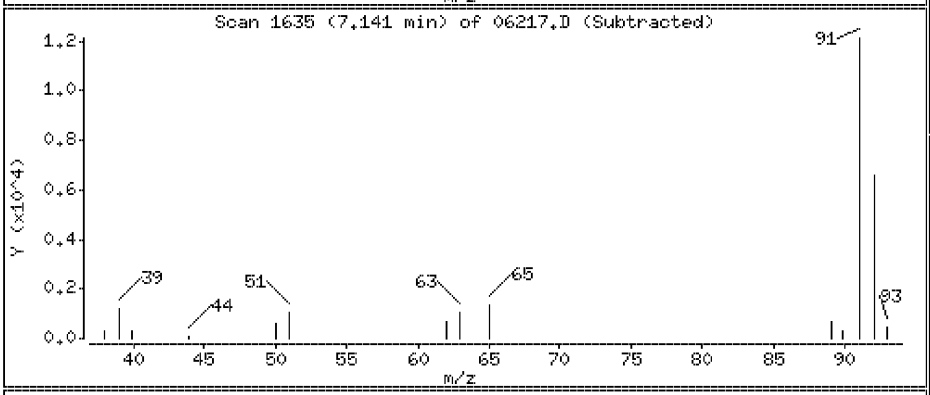
Column diameter: 0.32

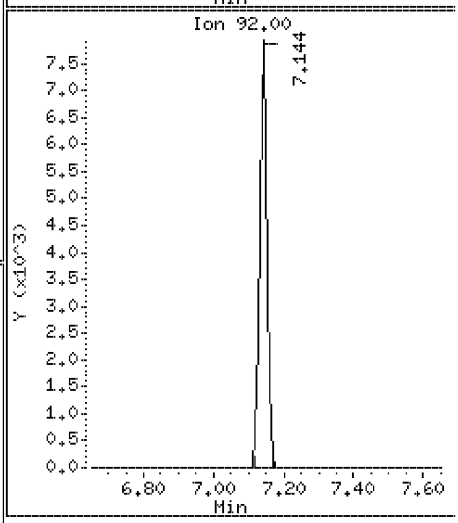
61 Toluene

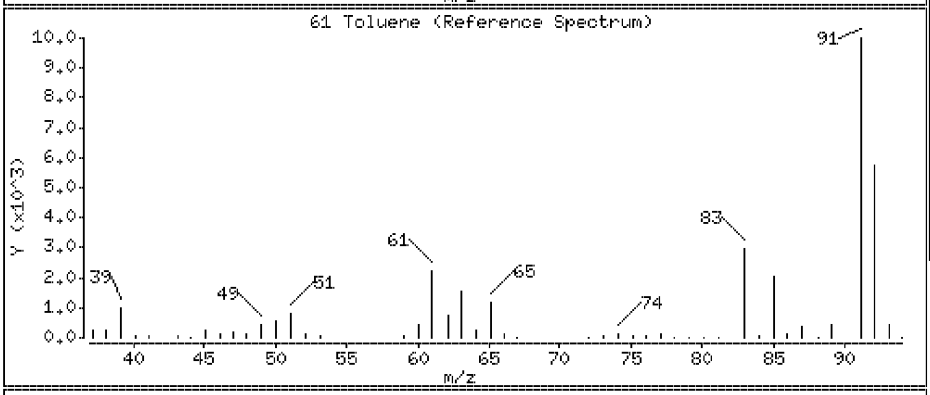
Concentration: 0.606 ppbv

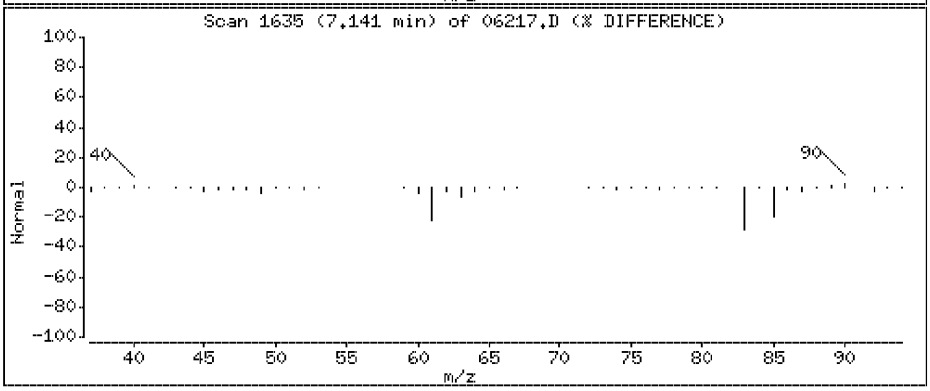












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

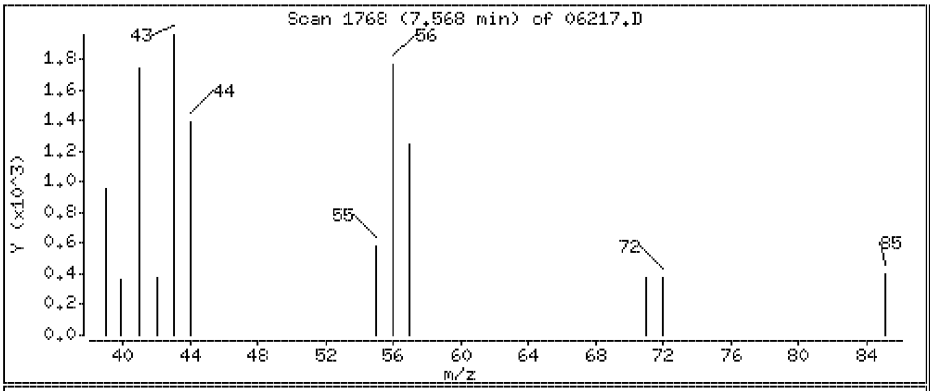
Operator: MJL

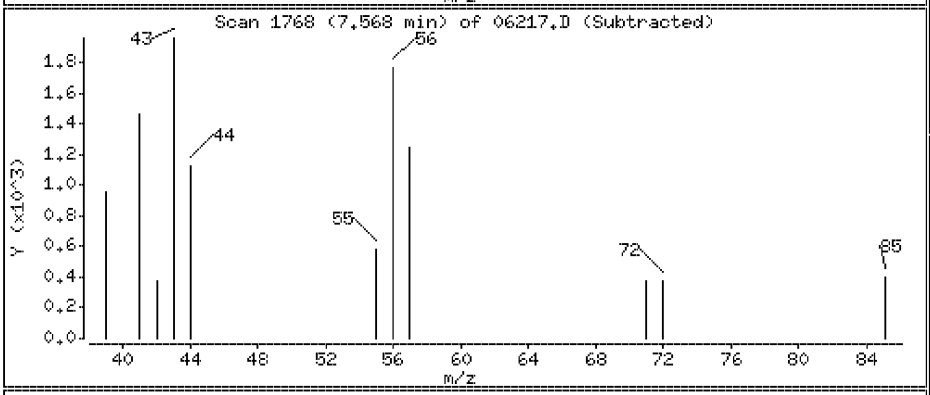
Column phase: J&W DB-5

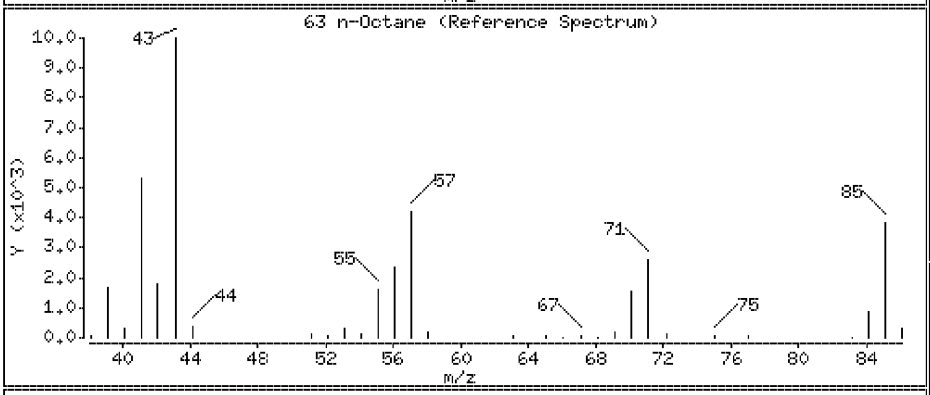
Column diameter: 0.32

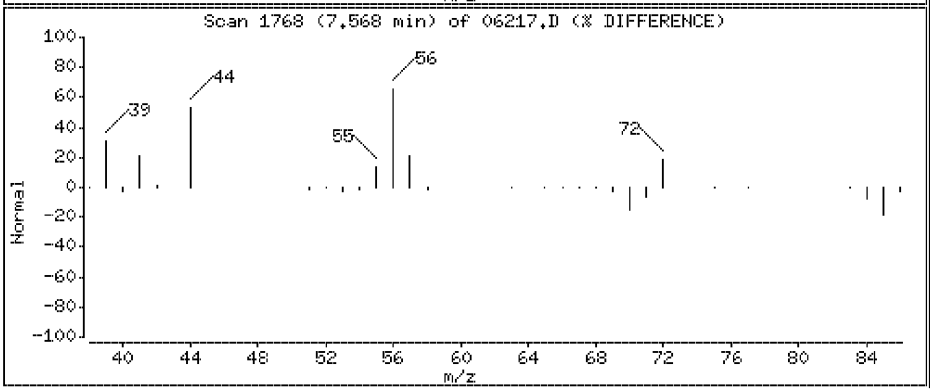
63 n-Octane

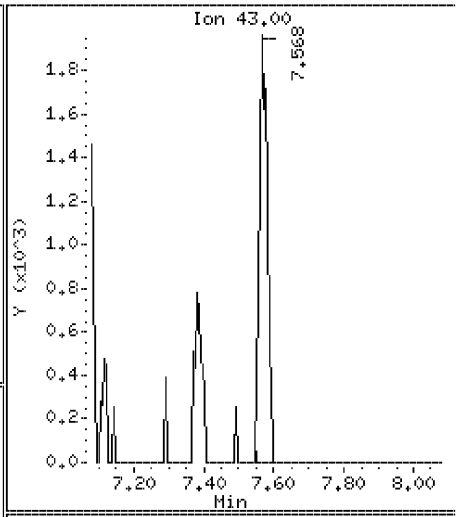
Concentration: 0.178 ppbv

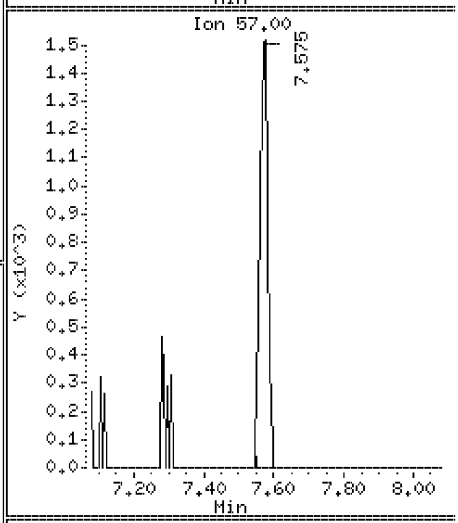


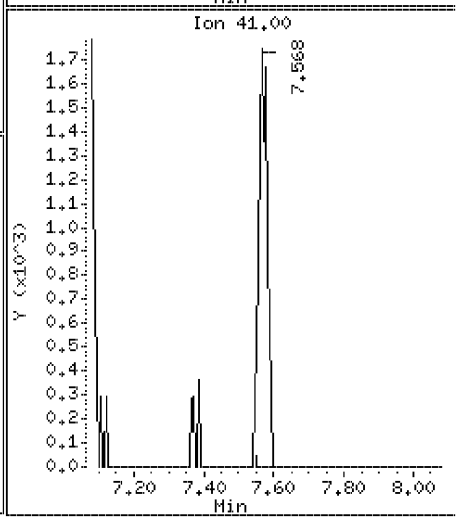












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

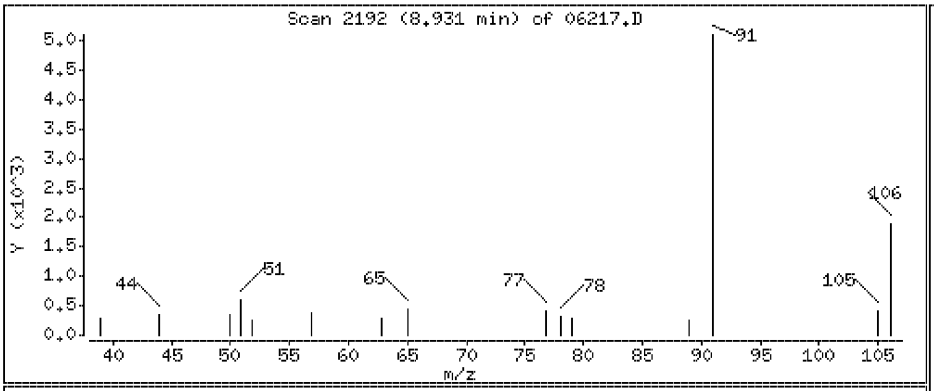
Operator: MJL

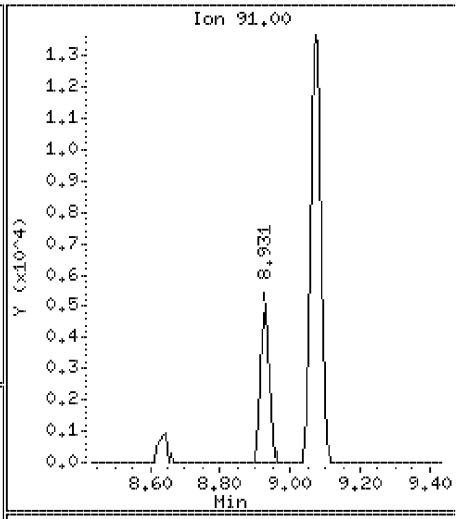
Column phase: J&W DB-5

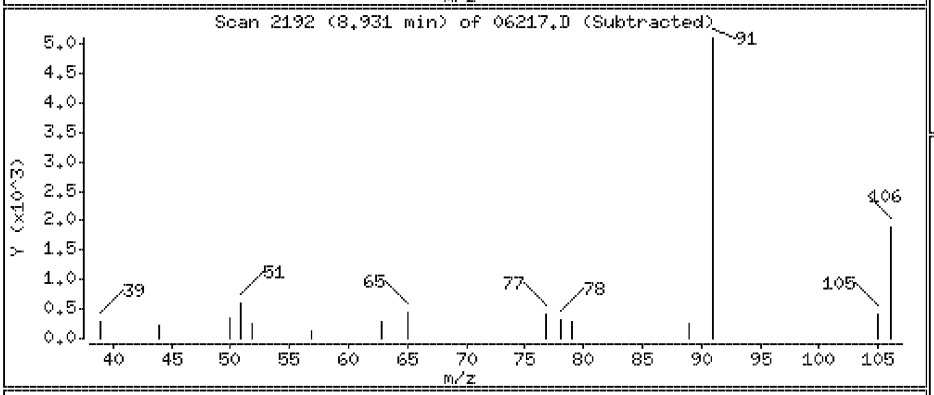
Column diameter: 0.32

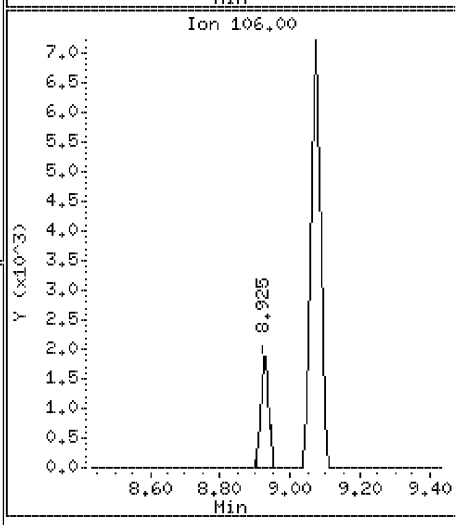
69 Ethyl Benzene

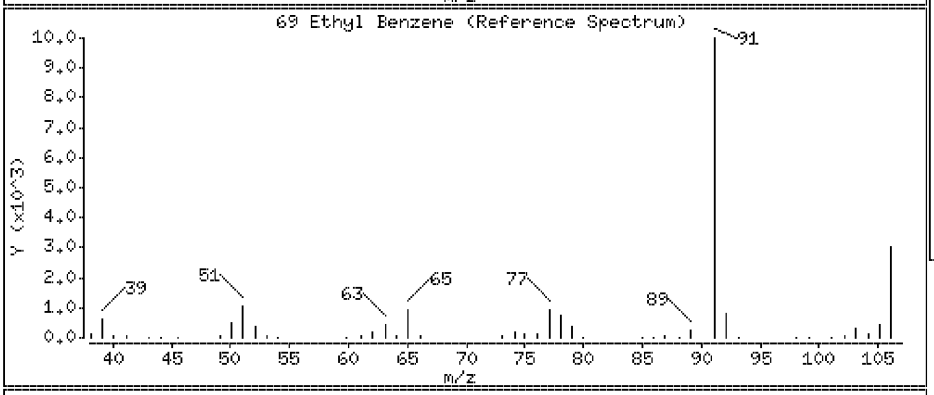
Concentration: 0.235 ppbv

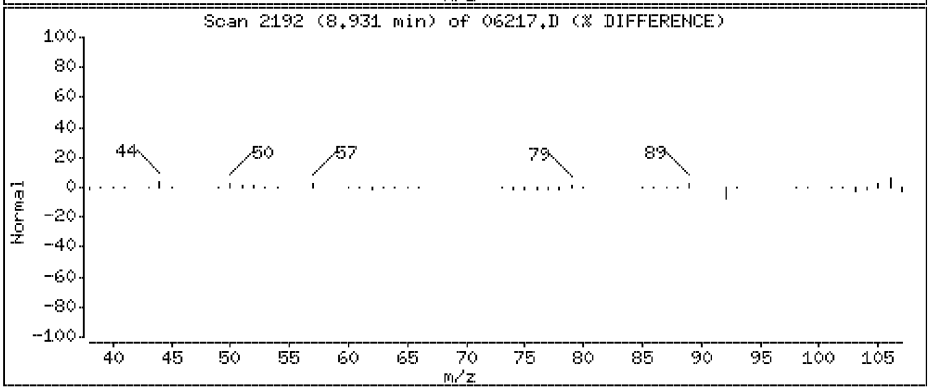












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

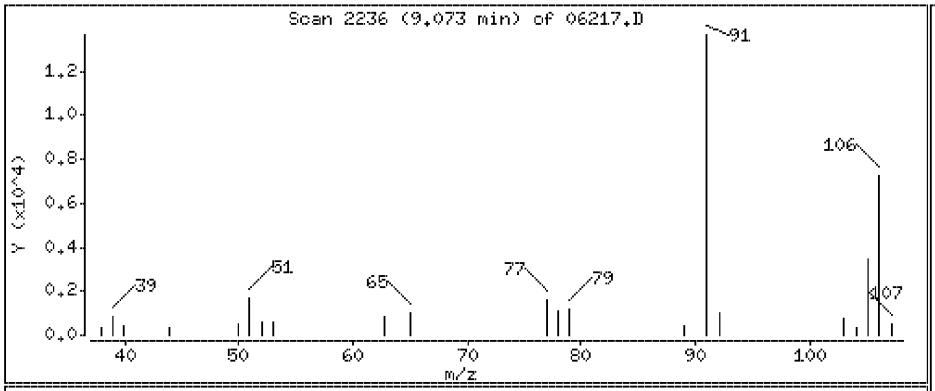
Operator: MJL

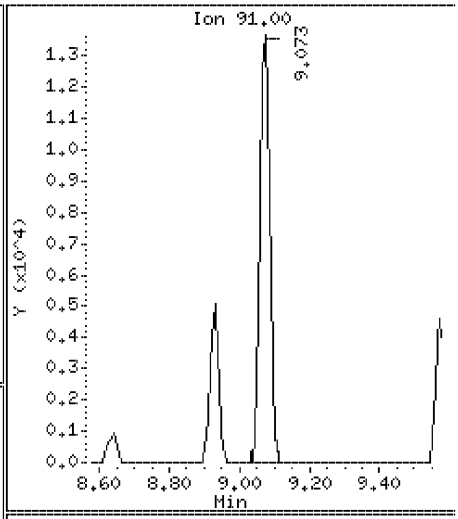
Column phase: J&W DB-5

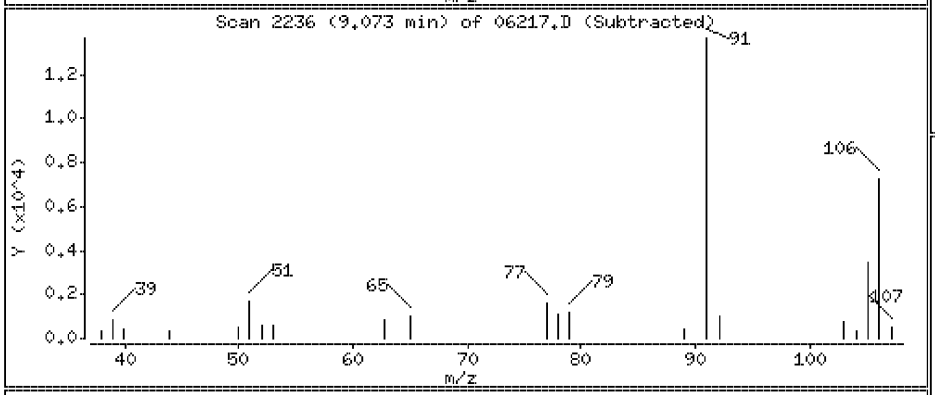
Column diameter: 0.32

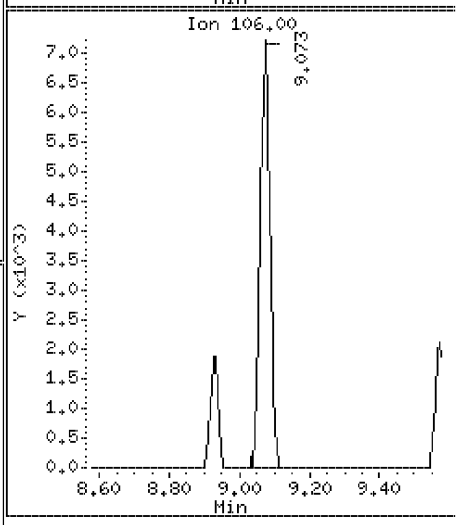
70 m&p-Xylene

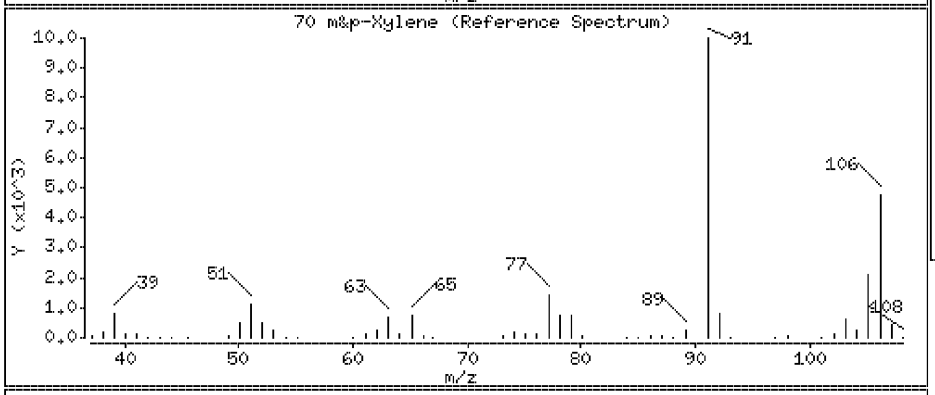
Concentration: 0.960 ppbv

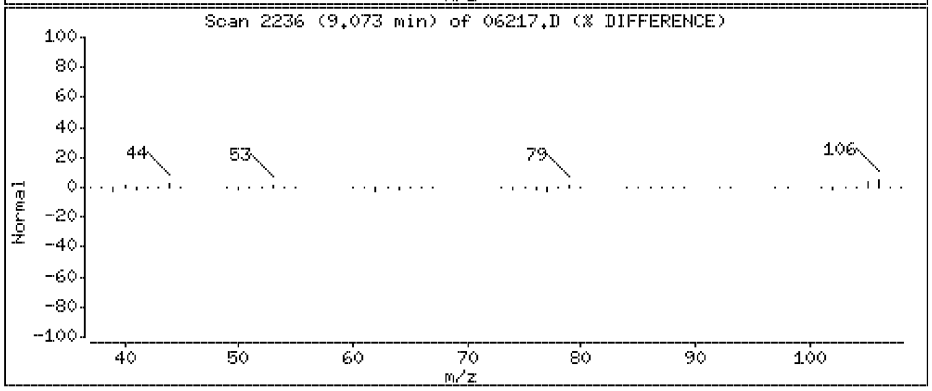












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

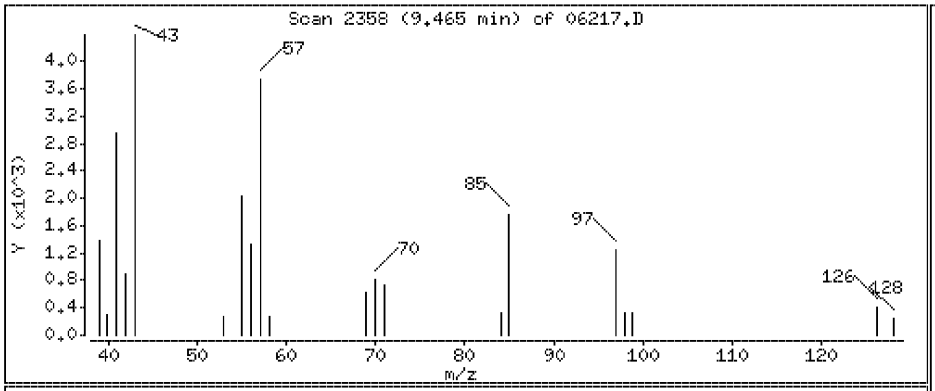
Operator: MJL

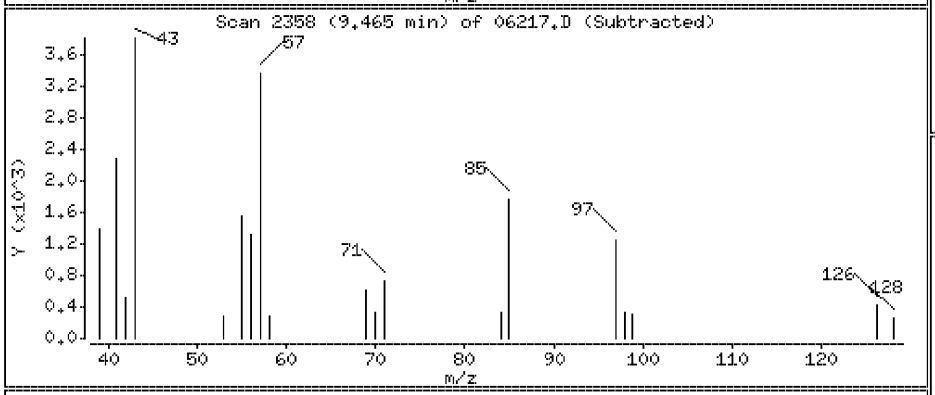
Column phase: J&W DB-5

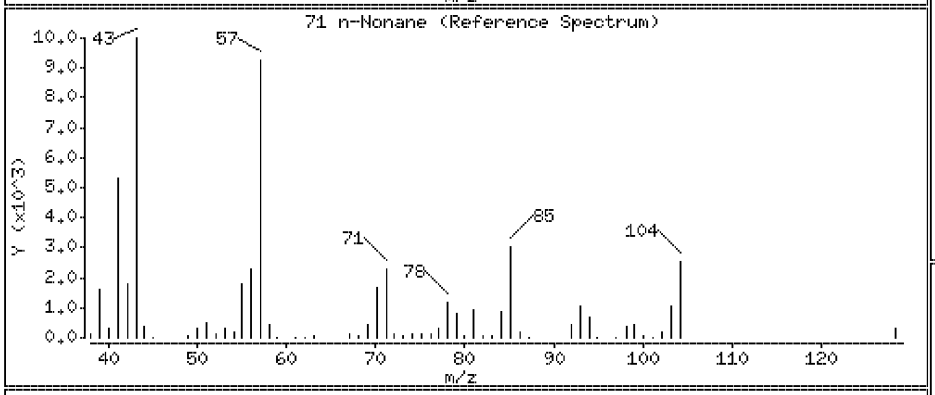
Column diameter: 0.32

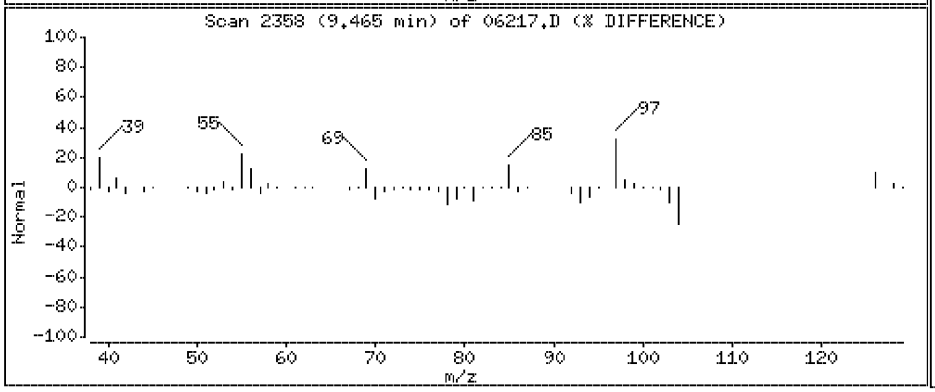
71 n-Nonane

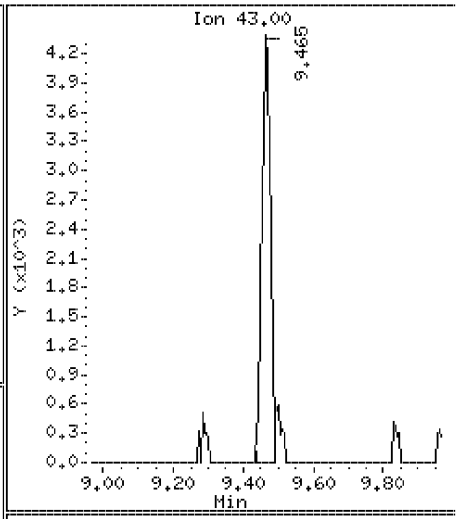
Concentration: 0.510 ppbv

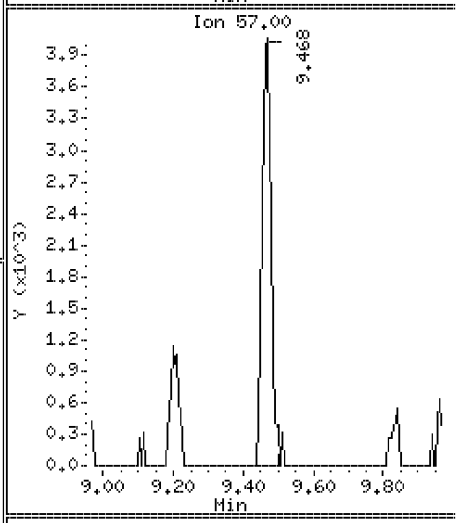


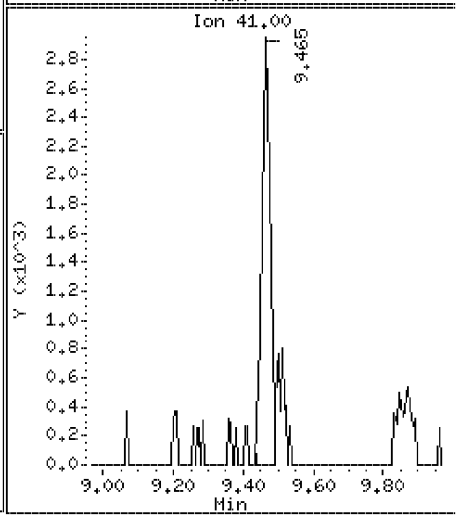












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

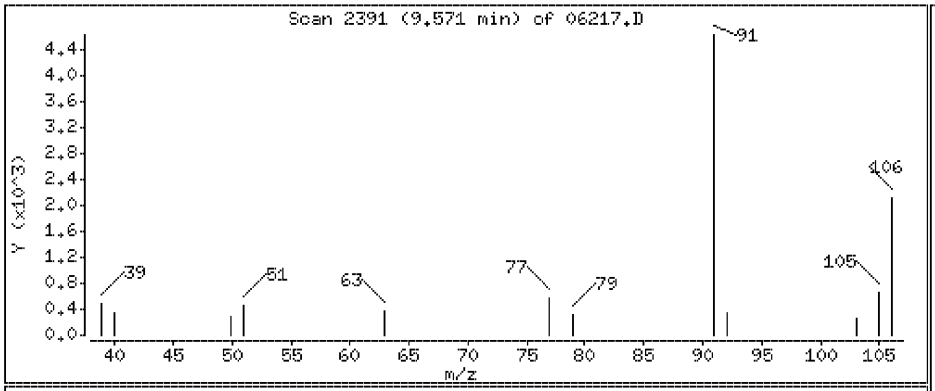
Operator: MJL

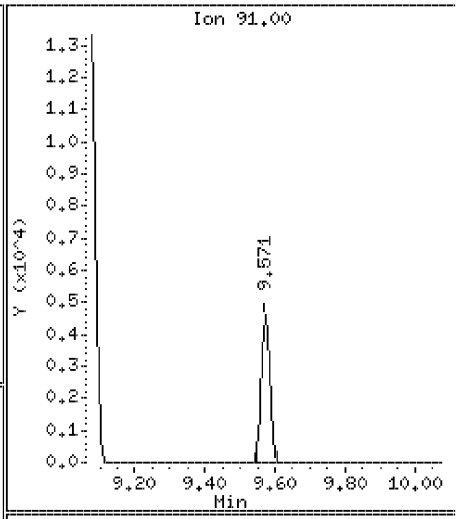
Column phase: J&W DB-5

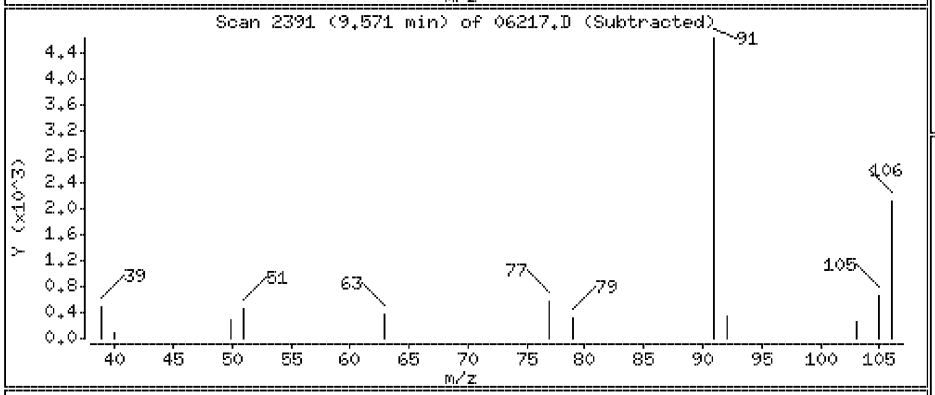
Column diameter: 0.32

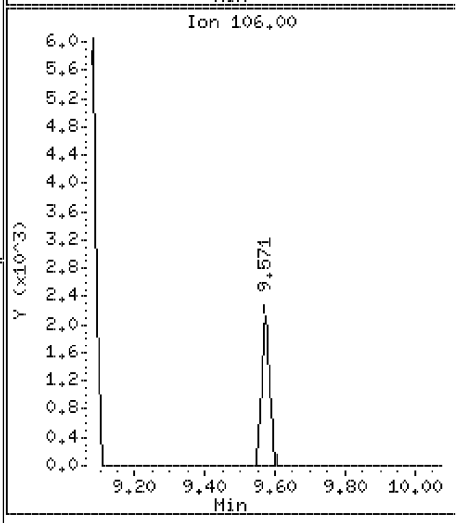
74 o-Xylene

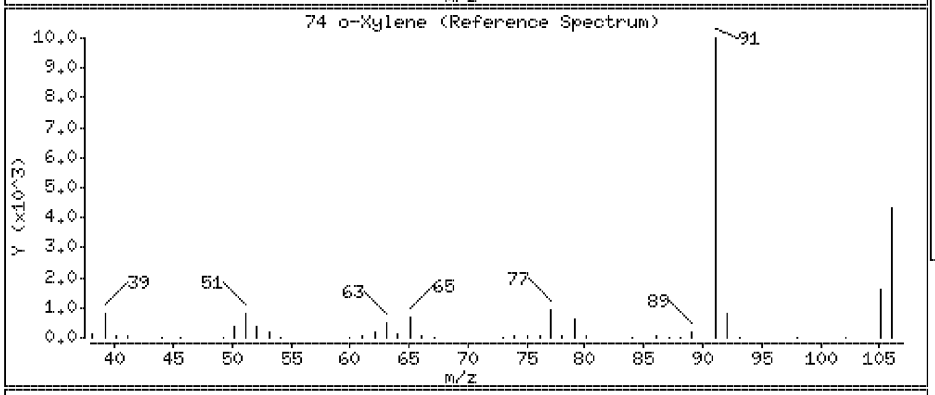
Concentration: 0.260 ppbv

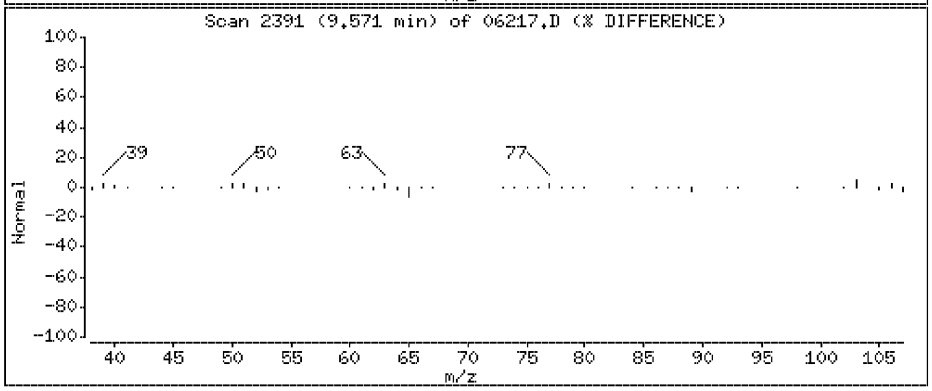












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

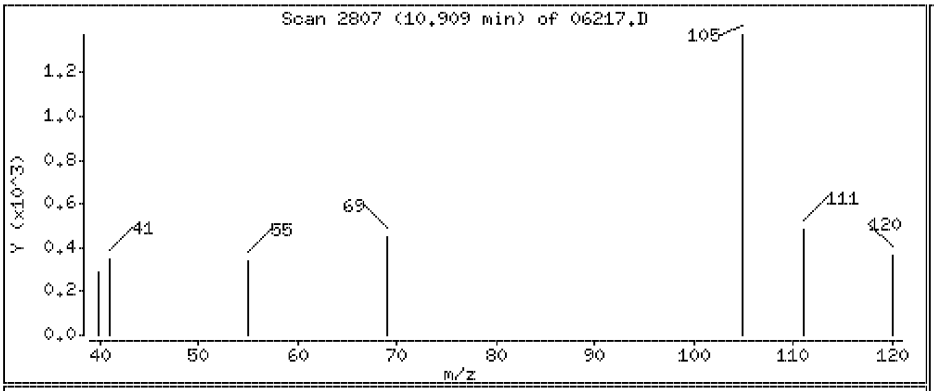
Operator: MJL

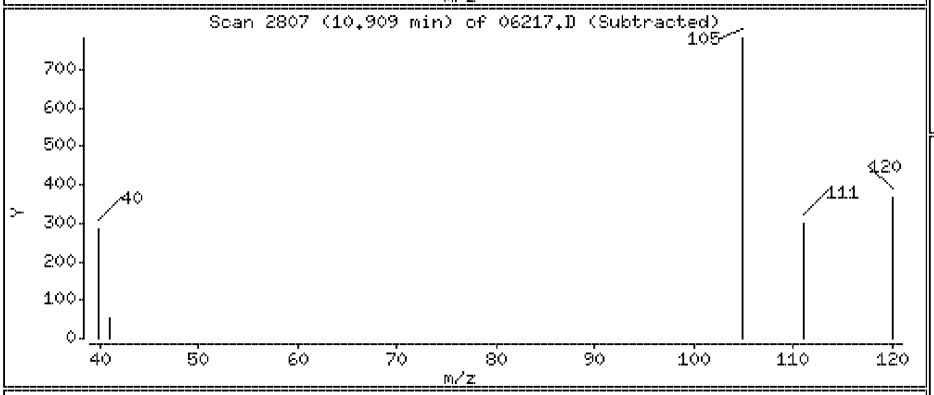
Column phase: J&W DB-5

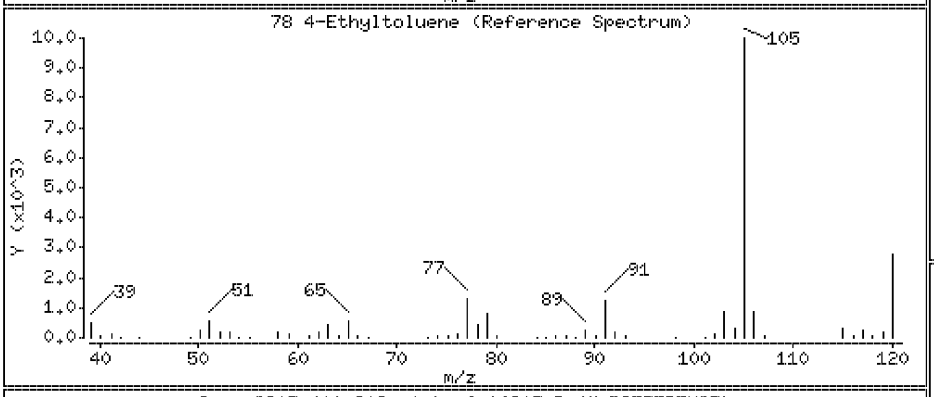
Column diameter: 0.32

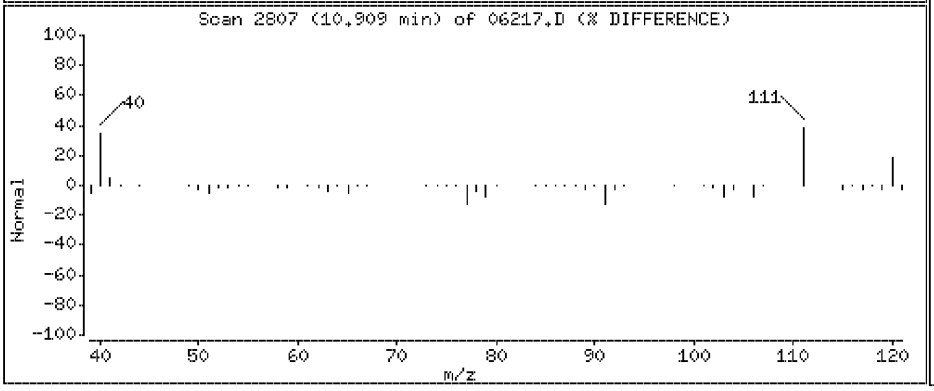
78 4-Ethyltoluene

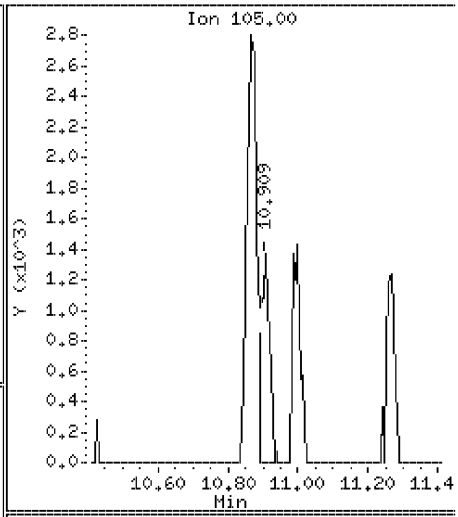
Concentration: 0.229 ppbv

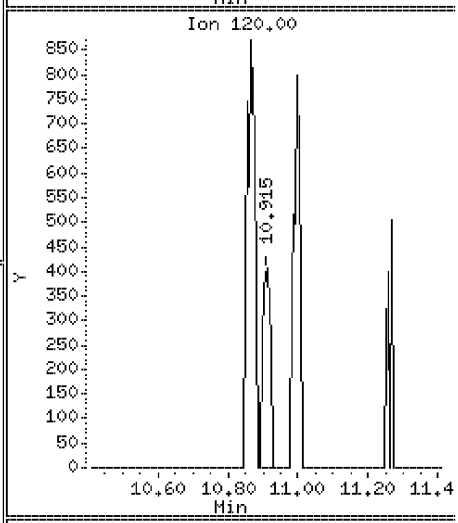


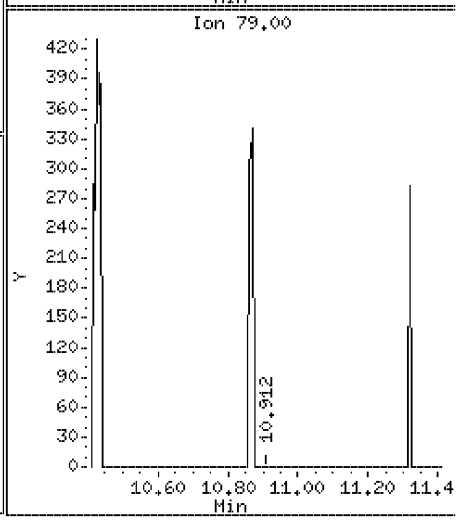












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

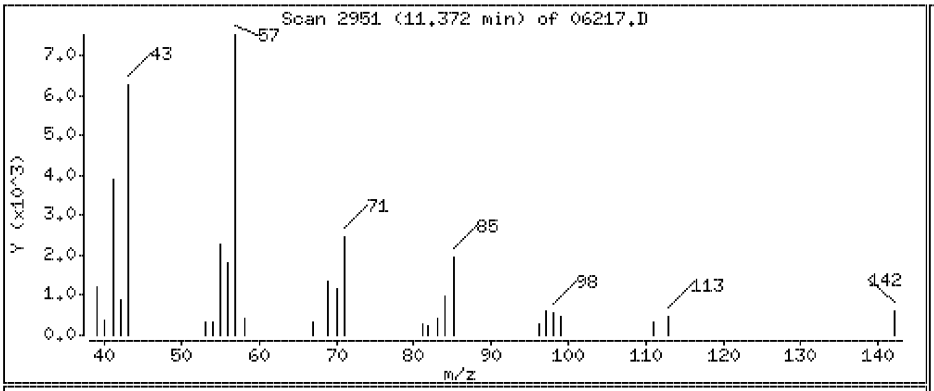
Operator: MJL

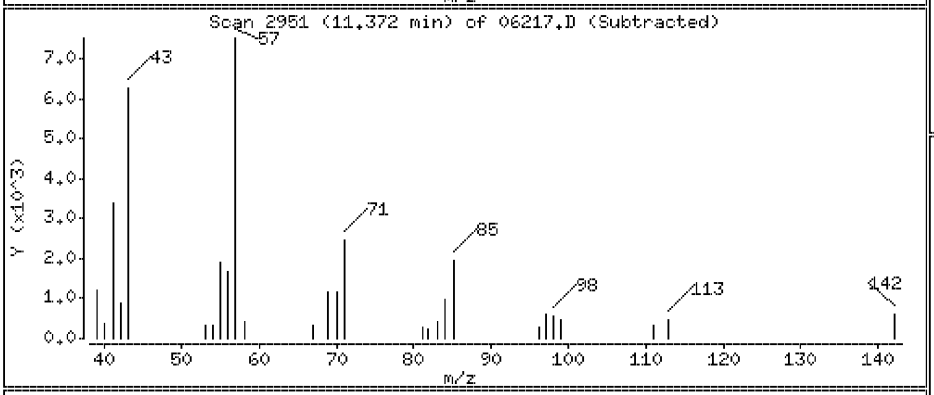
Column phase: J&W DB-5

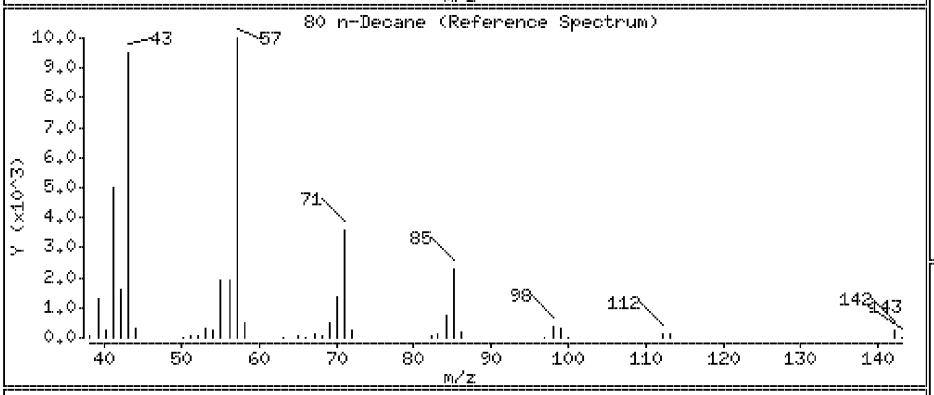
Column diameter: 0.32

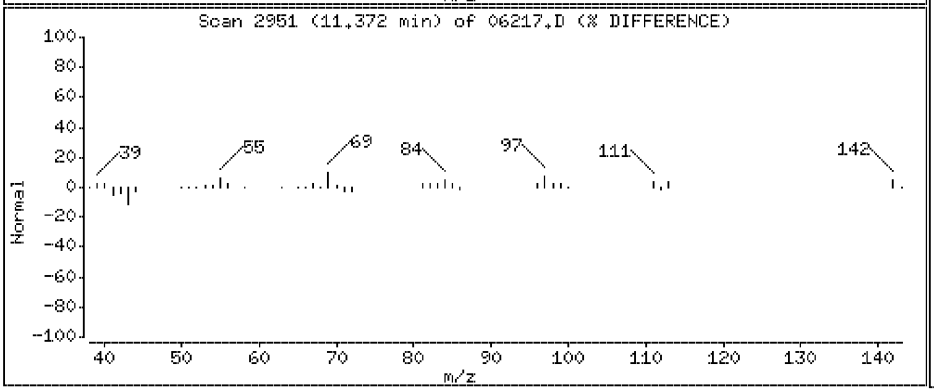
80 n-Decane

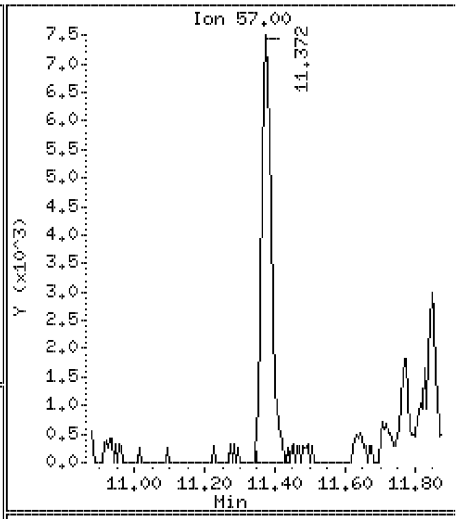
Concentration: 1.13 ppbv

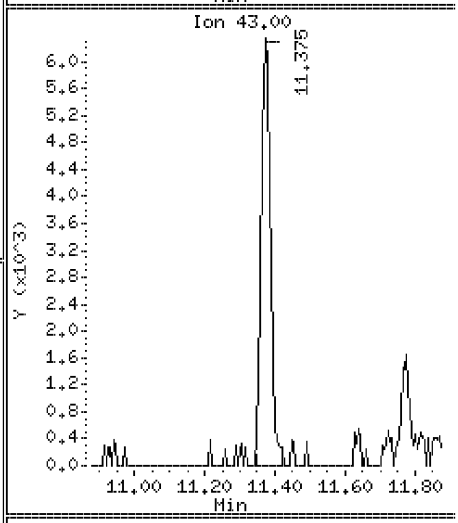


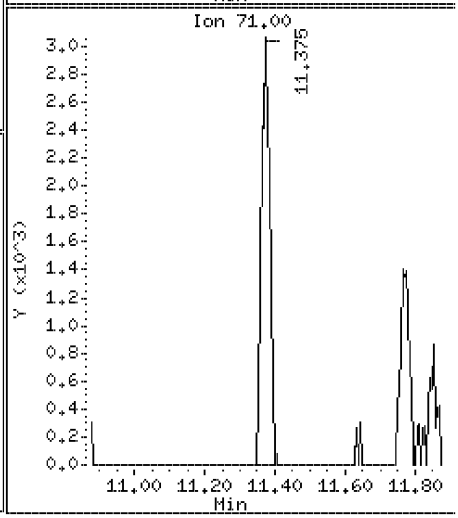












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

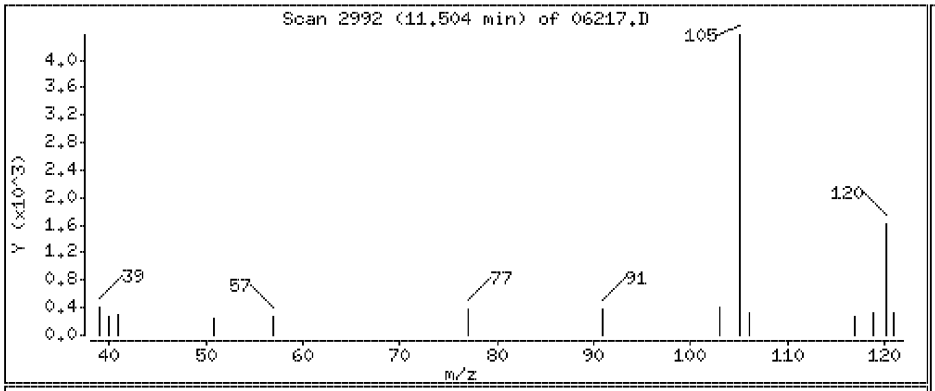
Operator: MJL

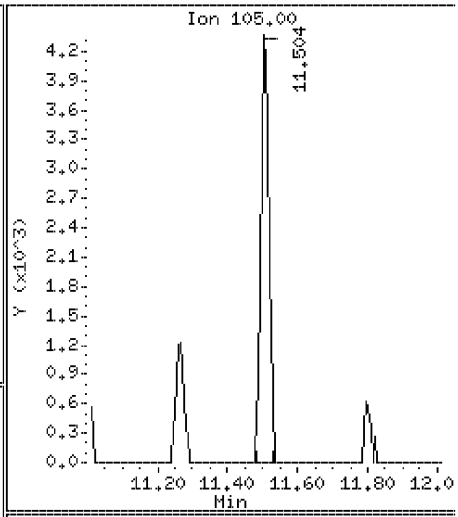
Column phase: J&W DB-5

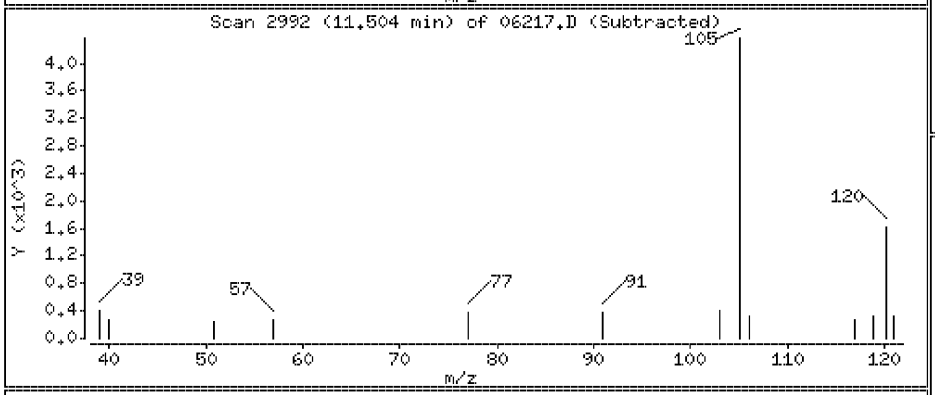
Column diameter: 0.32

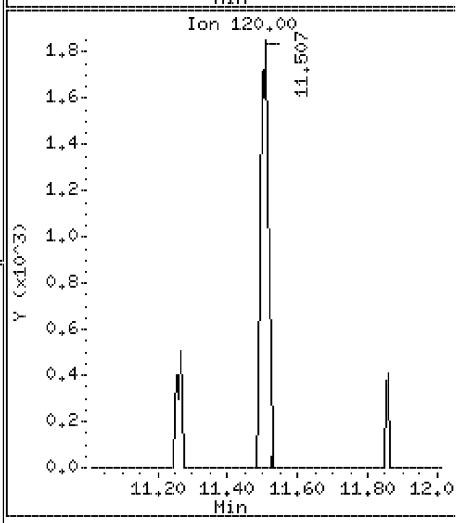
82 1,2,4-Trimethylbenzene

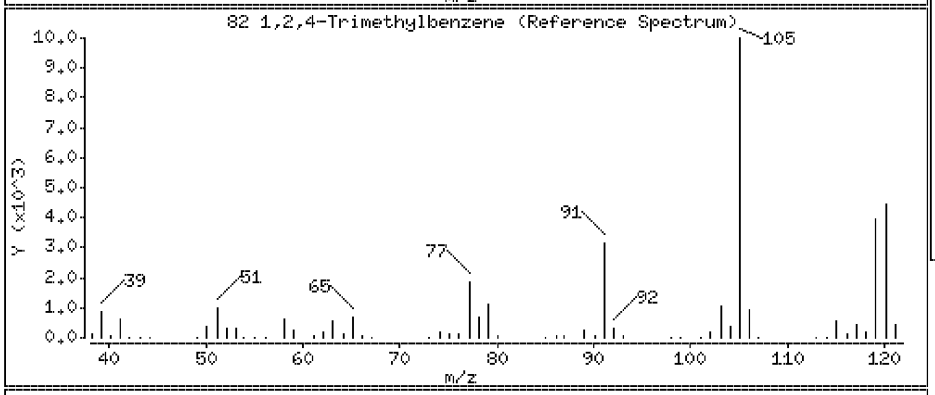
Concentration: 0.238 ppbv

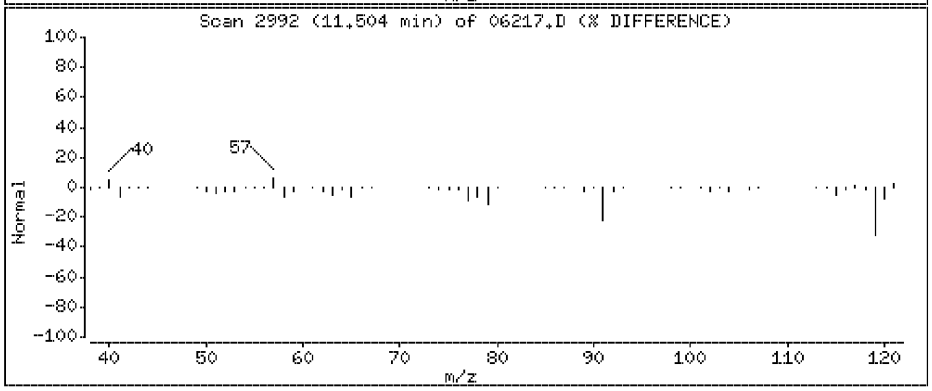












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06217.D

Date : 03-MAR-2017 15:49

Client ID:

Instrument: 10airB.i

Sample Info:

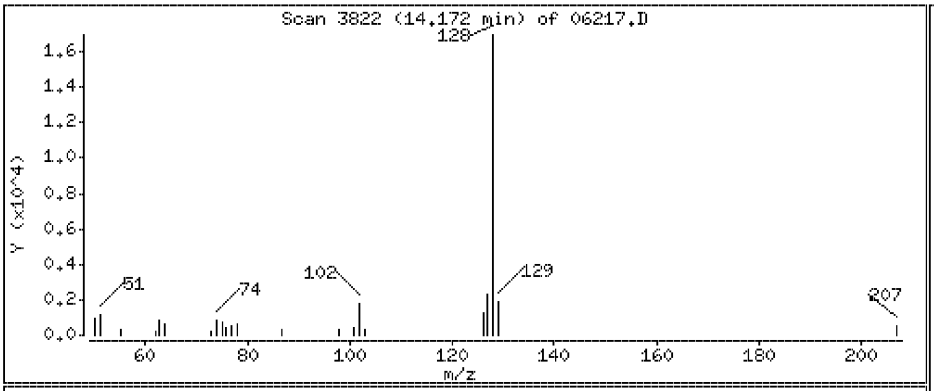
Operator: MJL

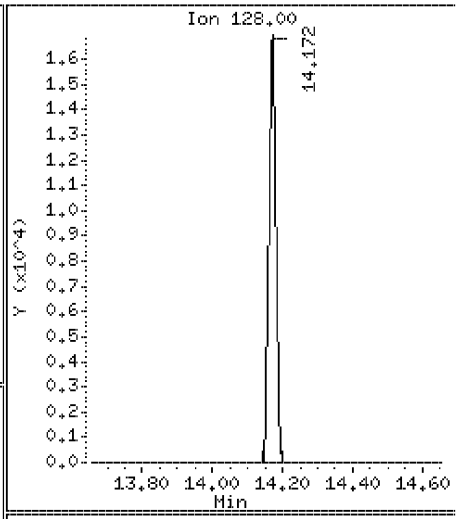
Column phase: J&W DB-5

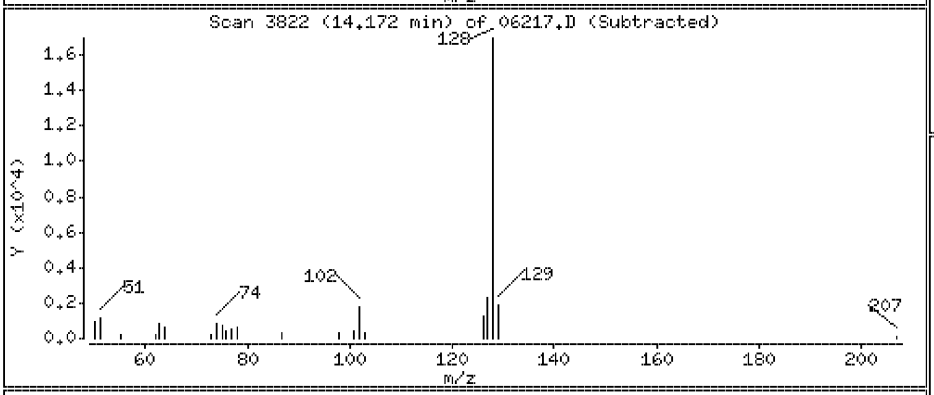
Column diameter: 0.32

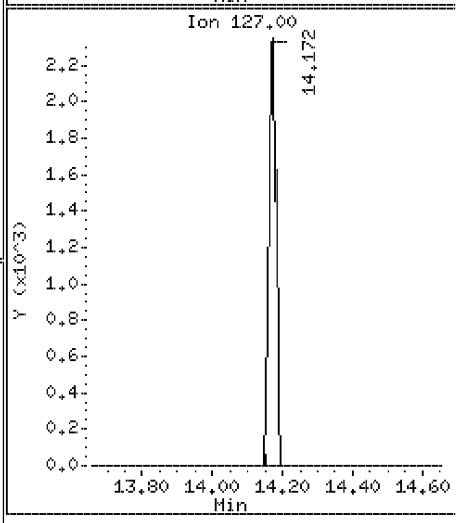
94 Naphthalene

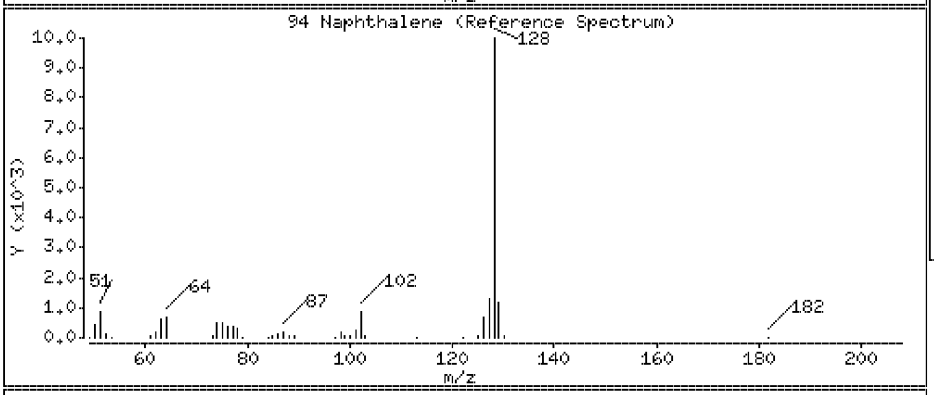
Concentration: 1.72 ppbv

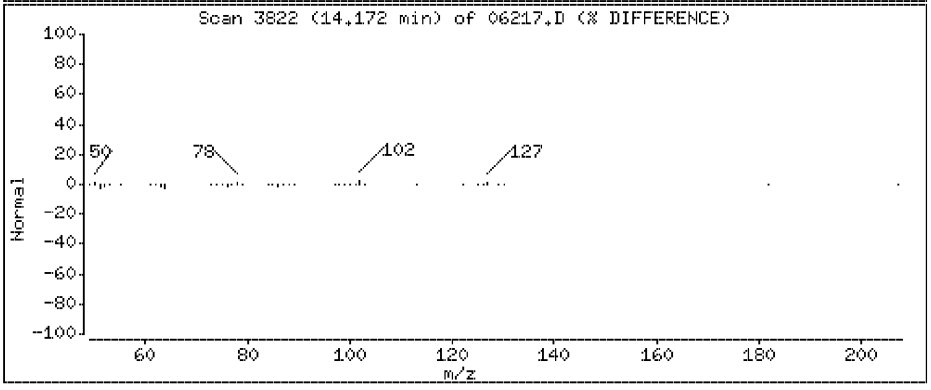






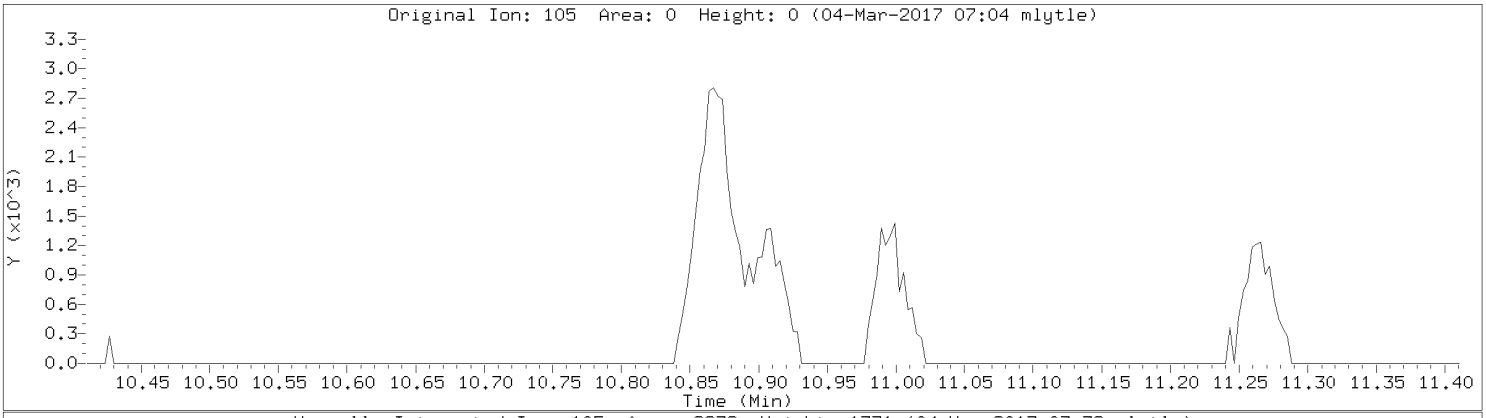


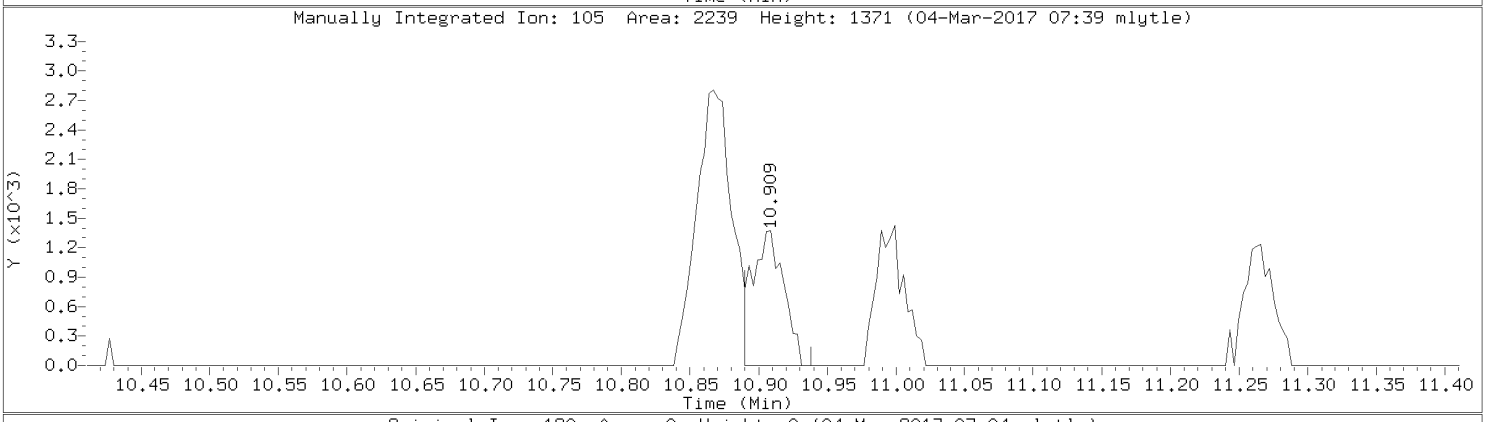


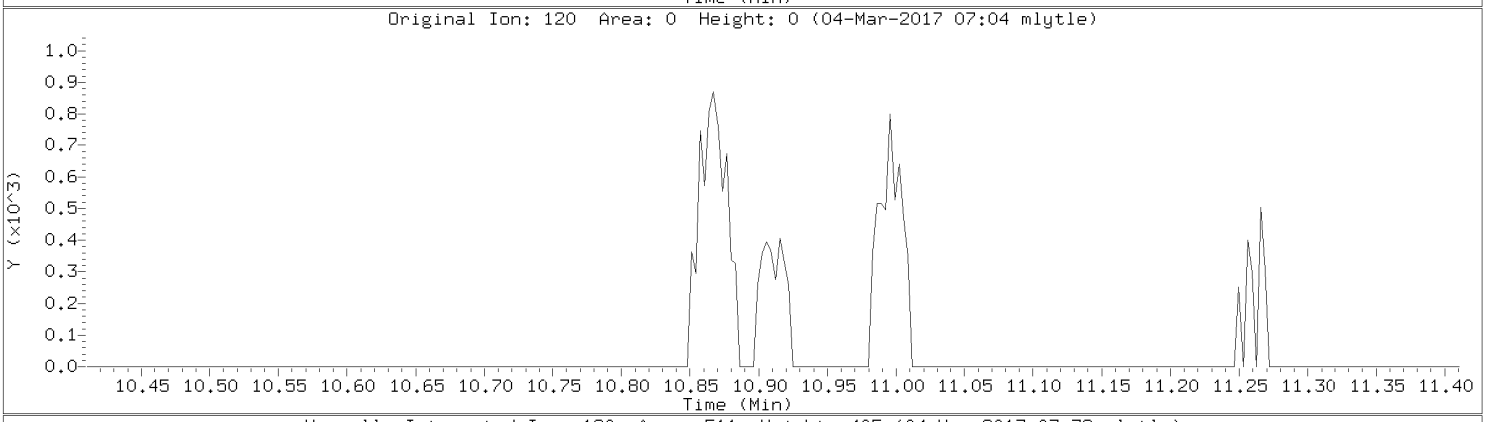


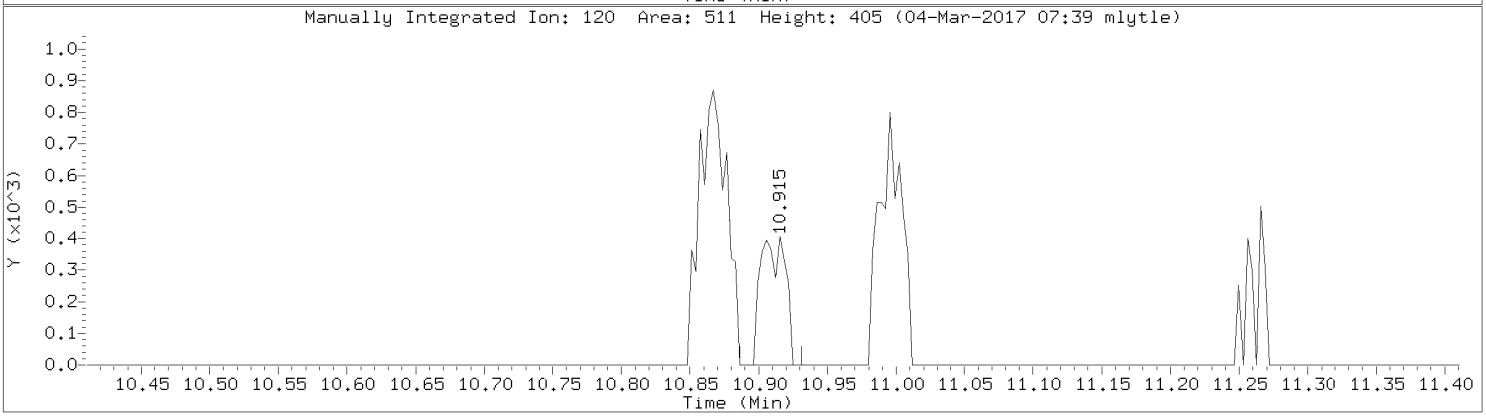
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06217.D
Injection Date: 03-MAR-2017 15:49
Instrument: 10airB.i
Lab Sample ID: 10379929001

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

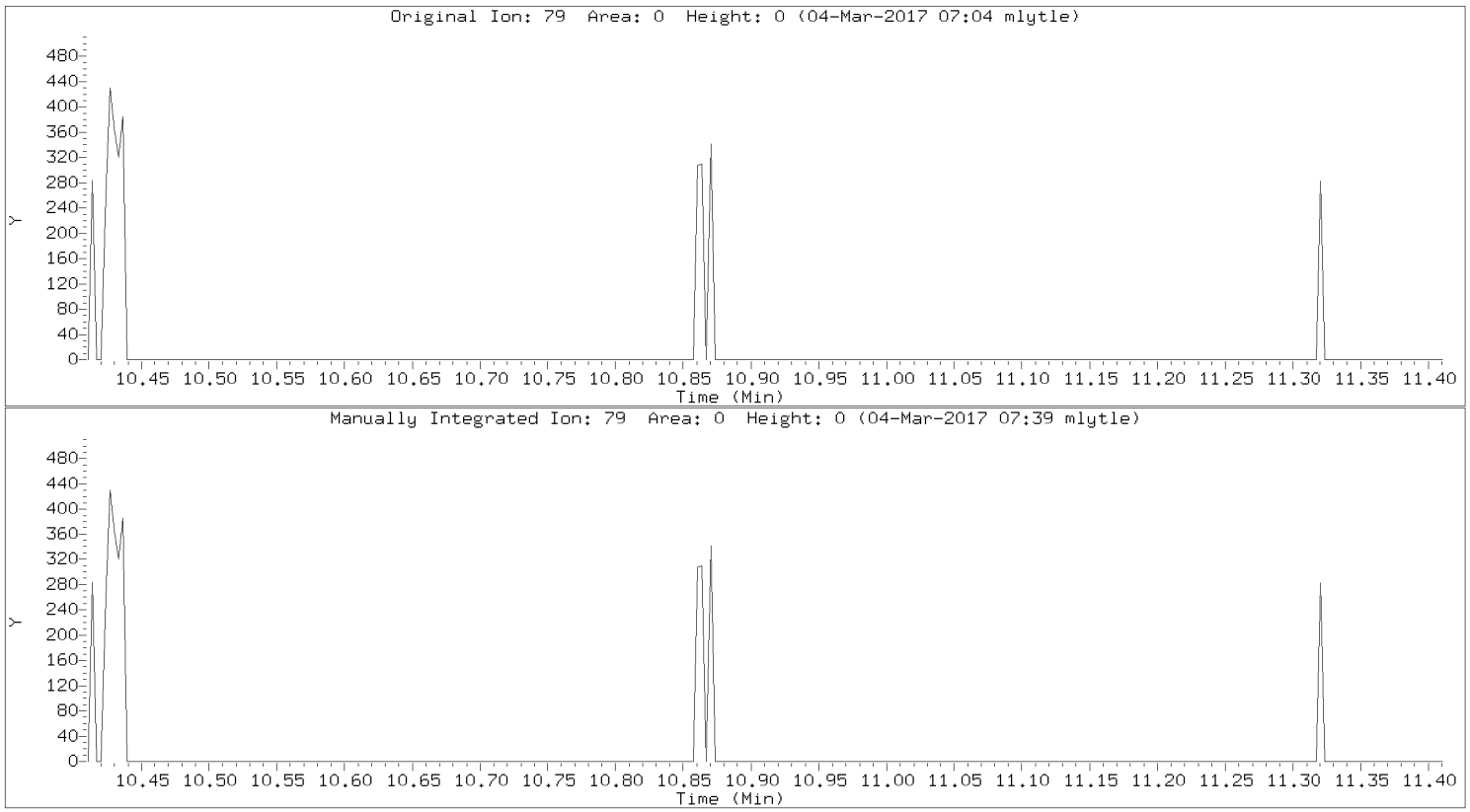






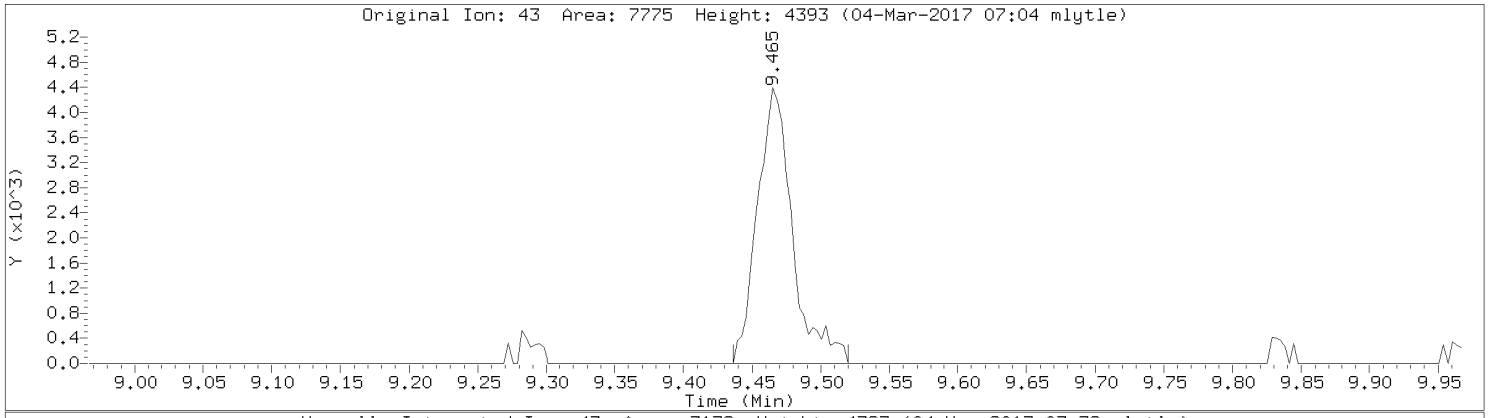


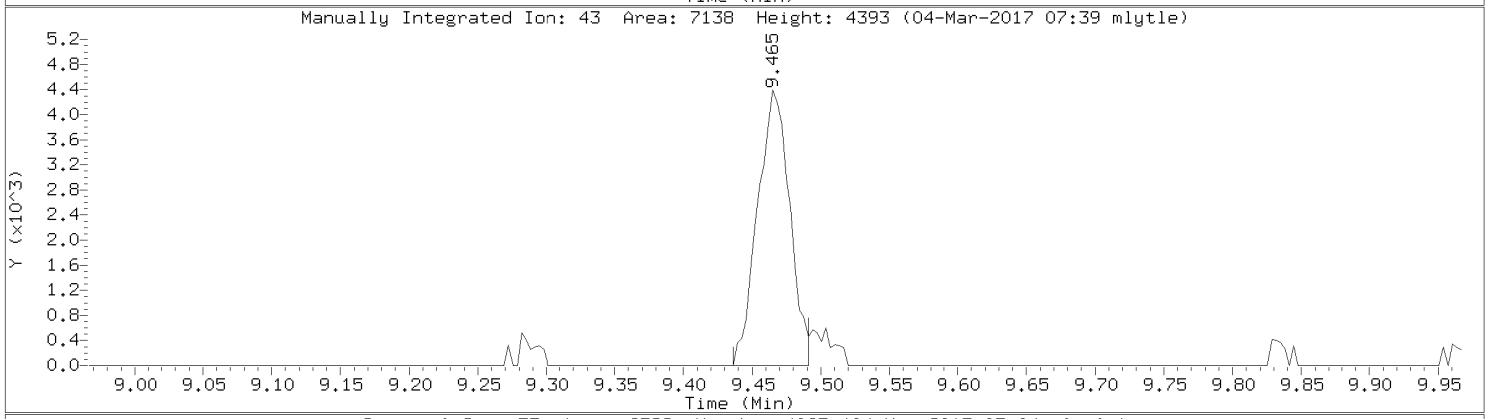
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06217.D
Injection Date: 03-MAR-2017 15:49
Instrument: 10airB.i
Lab Sample ID: 10379929001

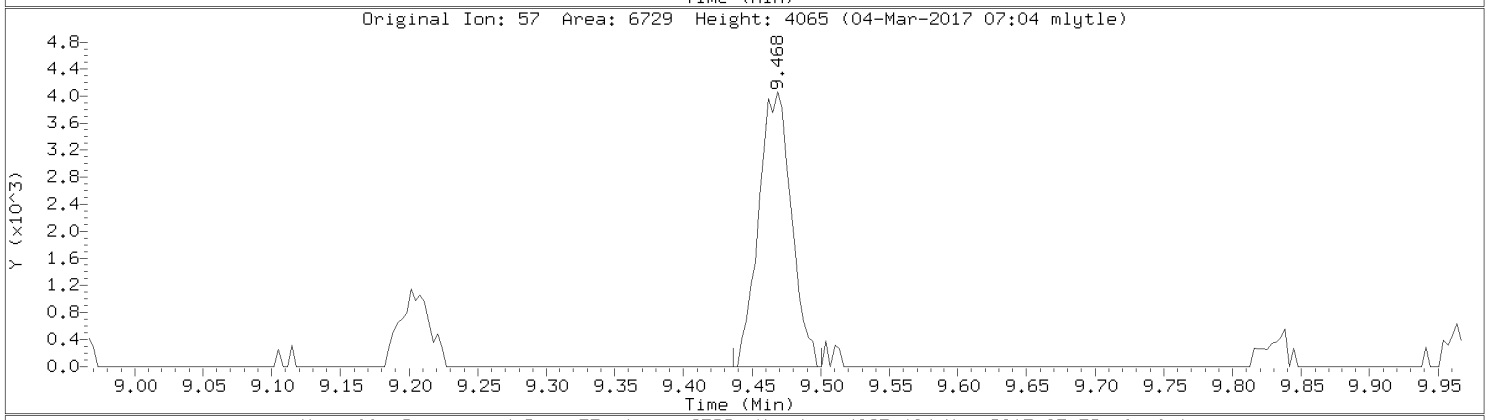


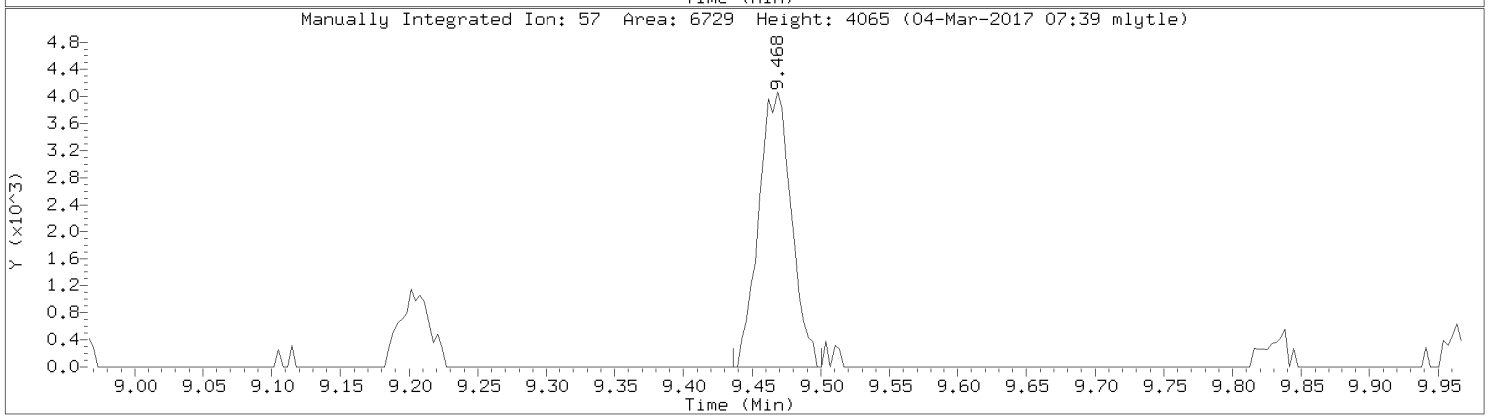
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06217.D
Injection Date: 03-MAR-2017 15:49
Instrument: 10airB.i
Lab Sample ID: 10379929001

Compound: n-Nonane
CAS Number: 111-84-2

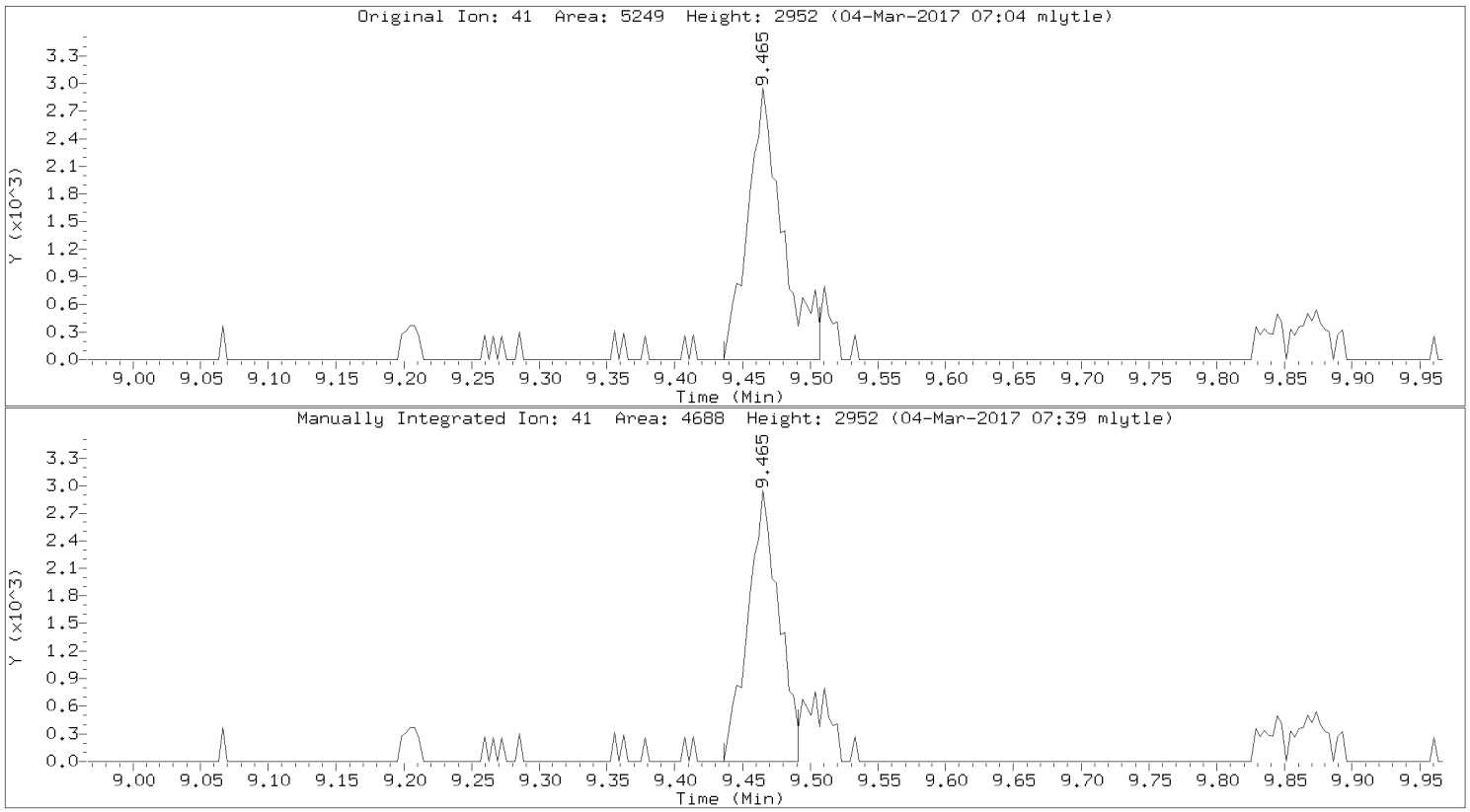








Data File: \\192.168.10.12\chem\10airB.i\030317.b/06217.D
Injection Date: 03-MAR-2017 15:49
Instrument: 10airB.i
Lab Sample ID: 10379929001



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_5_20170221 **Lab ID: 10379929001** Collected: 02/21/17 12:36 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.2**	ug/m3	4.4	0.42	1.75		03/03/17 15:49	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/03/17 15:49	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 15:49	79-34-5	
Tetrachloroethene	**<0.49**	ug/m3	1.2	0.49	1.75		03/03/17 15:49	127-18-4	
Toluene	**2.3**	ug/m3	1.3	0.27	1.75		03/03/17 15:49	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 15:49	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/03/17 15:49	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 15:49	79-00-5	
Trichloroethene	**<0.48**	ug/m3	0.96	0.48	1.75		03/03/17 15:49	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.0	0.23	1.75		03/03/17 15:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.71J**	ug/m3	2.8	0.53	1.75		03/03/17 15:49	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.22	1.75		03/03/17 15:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 15:49	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 15:49	75-01-4	
m&p-Xylene	**4.2**	ug/m3	3.1	1.4	1.75		03/03/17 15:49	179601-23-1	
o-Xylene	**1.1J**	ug/m3	1.5	0.61	1.75		03/03/17 15:49	95-47-6	

Sample: VP-104_10_20170221 **Lab ID: 10379929002** Collected: 02/21/17 12:36 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**6.0**	ug/m3	4.4	1.5	1.83		03/03/17 16:52	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/03/17 16:52	107-05-1	
Benzene	**<0.22**	ug/m3	0.59	0.22	1.83		03/03/17 16:52	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/03/17 16:52	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/03/17 16:52	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/03/17 16:52	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/03/17 16:52	106-99-0	
2-Butanone (MEK)	**1.7J**	ug/m3	5.5	0.42	1.83		03/03/17 16:52	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/03/17 16:52	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/03/17 16:52	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/03/17 16:52	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/03/17 16:52	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/03/17 16:52	75-00-3	
Chloroform	**<0.35**	ug/m3	0.91	0.35	1.83		03/03/17 16:52	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/03/17 16:52	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/03/17 16:52	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/03/17 16:52	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/03/17 16:52	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/03/17 16:52	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/03/17 16:52	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/03/17 16:52	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/03/17 16:52	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_10_20170221 **Lab ID: 10379929002** Collected: 02/21/17 12:36 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/03/17 16:52	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.8	0.88	1.83		03/03/17 16:52	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/03/17 16:52	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/03/17 16:52	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/03/17 16:52	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/03/17 16:52	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/03/17 16:52	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/03/17 16:52	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/03/17 16:52	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/03/17 16:52	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/03/17 16:52	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/03/17 16:52	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/03/17 16:52	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/03/17 16:52	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/03/17 16:52	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/03/17 16:52	87-68-3	
n-Hexane	**1.0J**	ug/m3	1.3	0.65	1.83		03/03/17 16:52	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/03/17 16:52	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/03/17 16:52	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/03/17 16:52	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/03/17 16:52	108-87-2	
Methylene Chloride	**38.3**	ug/m3	6.5	0.99	1.83		03/03/17 16:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/03/17 16:52	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/03/17 16:52	1634-04-4	
2-Propanol	**2.5J**	ug/m3	4.6	0.44	1.83		03/03/17 16:52	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/03/17 16:52	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/03/17 16:52	79-34-5	
Tetrachloroethene	**1.9**	ug/m3	1.3	0.51	1.83		03/03/17 16:52	127-18-4	
Toluene	**4.4**	ug/m3	1.4	0.28	1.83		03/03/17 16:52	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/03/17 16:52	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/03/17 16:52	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/03/17 16:52	79-00-5	
Trichloroethene	**<0.51**	ug/m3	1.0	0.51	1.83		03/03/17 16:52	79-01-6	
Trichlorofluoromethane	**1.1J**	ug/m3	2.1	0.24	1.83		03/03/17 16:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/03/17 16:52	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/03/17 16:52	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/03/17 16:52	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/03/17 16:52	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/03/17 16:52	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/03/17 16:52	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D
Report Date: 04-Mar-2017 07:51

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030317.b\06219.D
Lab Smp Id: 10379929002
Inj Date : 03-MAR-2017 16:52
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Meth Date : 04-Mar-2017 07:02 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 19
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	2.983	3.005	(0.533)	7495	0.95430	1.75(QM)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.037	3.050	(0.543)	11068	0.21380	0.391	
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.542	(0.634)	9929	2.01711	3.69	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.562	3.593	(0.636)	6101	0.32078	0.587(Q)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.642	3.671	(0.651)	3714	0.10112	0.185	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.719	3.719	(0.665)	28639	1.34736	2.47	
19	Isopropyl Alcohol	45	3.777	3.764	(0.675)	11837	0.54604	0.999	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D
Report Date: 04-Mar-2017 07:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.976	4.002	(0.710)	88886	5.92480	10.8	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.388	(0.792)	4006	0.29474	0.539	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.487	(0.800)	400358	9.39335	9.39	
	33 Methyl Ethyl Ketone	72	4.562	4.555	(0.815)	1513	0.31002	0.567(Q)	
	34 n-Hexane	57	4.568	4.584	(0.816)	3339	0.15630	0.286(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.609	(1.000)	1339650	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						(D)
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.072	(1.263)	1143531	9.53718	9.54	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.276)	33819	0.62505	1.14	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.982	(0.924)	4472	0.14773	0.270	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	871754	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D
Report Date: 04-Mar-2017 07:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	475308	9.89772	9.90
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	14.162	14.156	(1.639)	2192	0.40085	0.734(M)
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D
Report Date: 04-Mar-2017 07:51

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06219.D
Lab Smp Id: 10379929002
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Misc Info: 27830

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

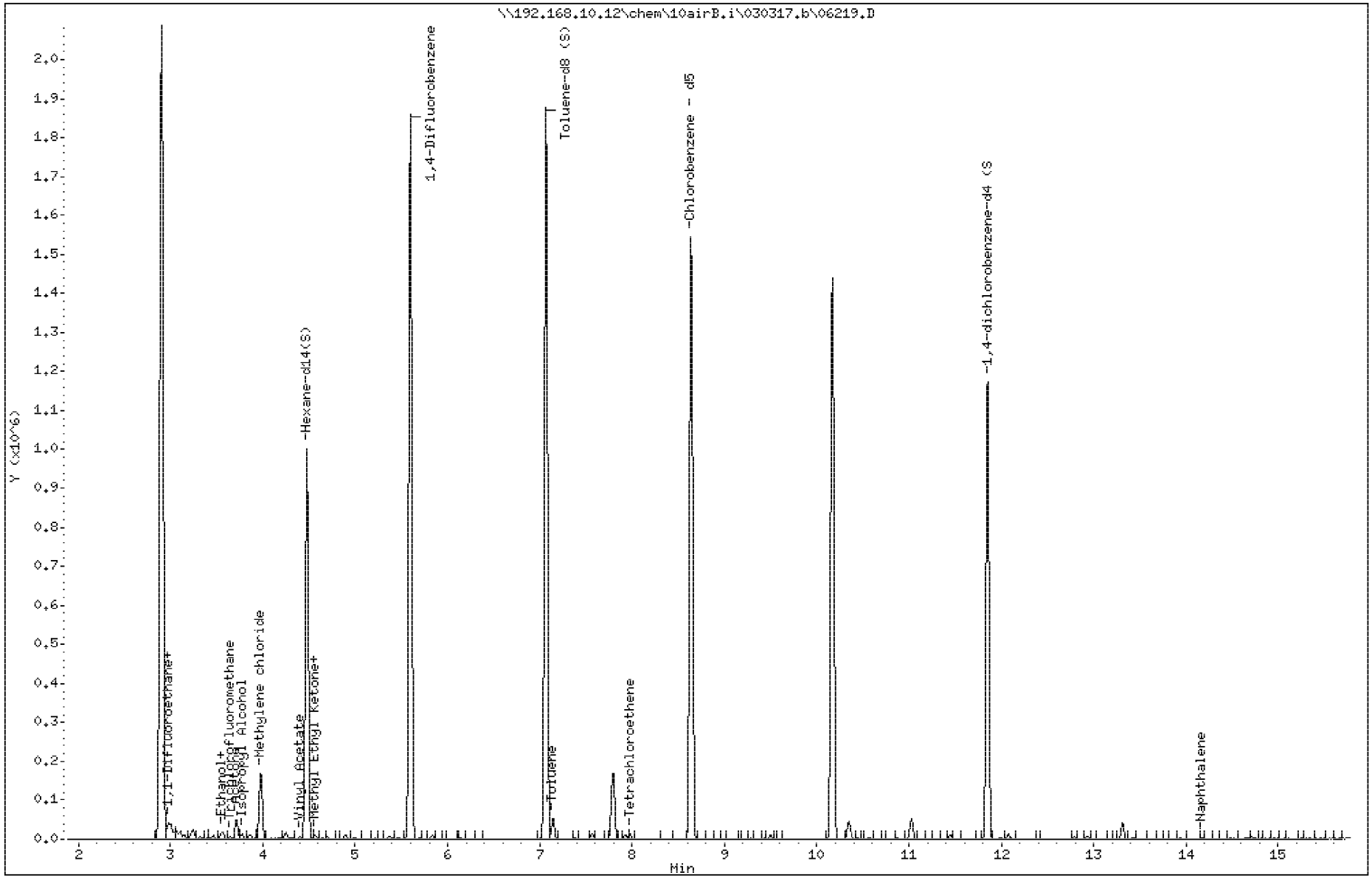
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1339650	-5.27
67 Chlorobenzene - d	951026	570616	1331436	871754	-8.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.22
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D
Date : 03-MAR-2017 16:52
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

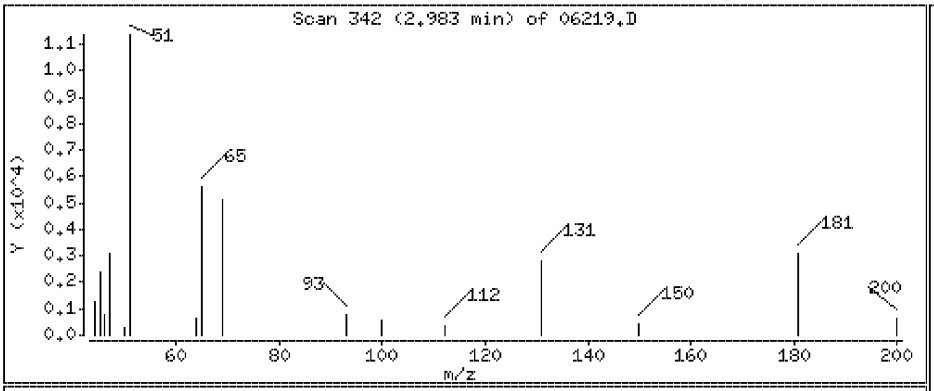
Operator: MJL

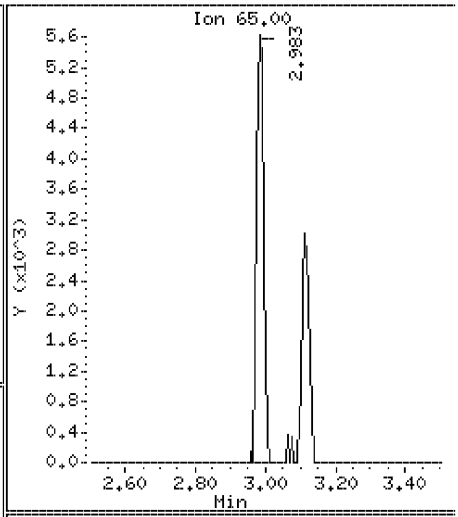
Column phase: J&W DB-5

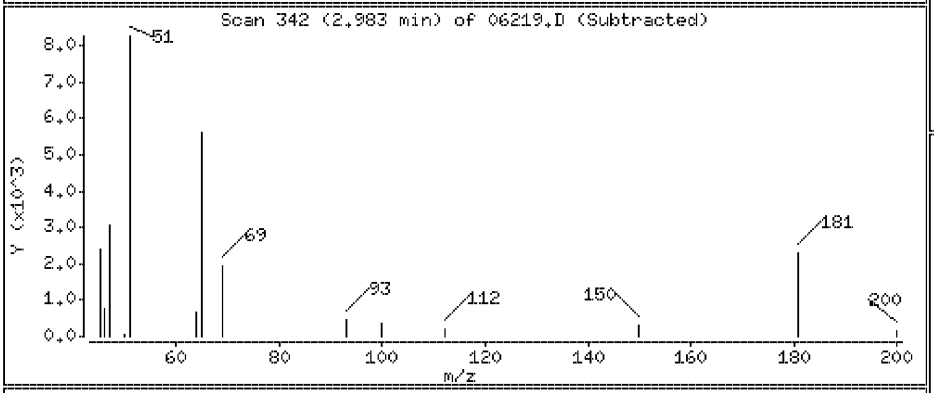
Column diameter: 0.32

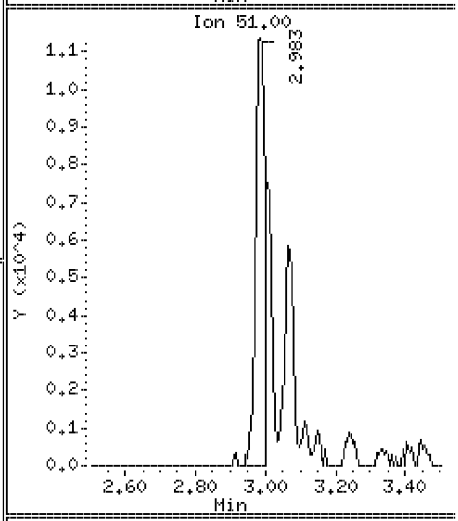
2 1,1-Difluoroethane

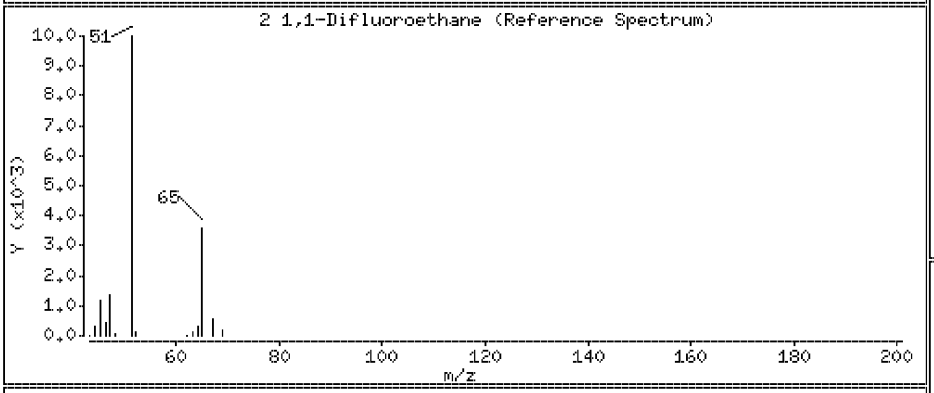
Concentration: 1.75 ppbv

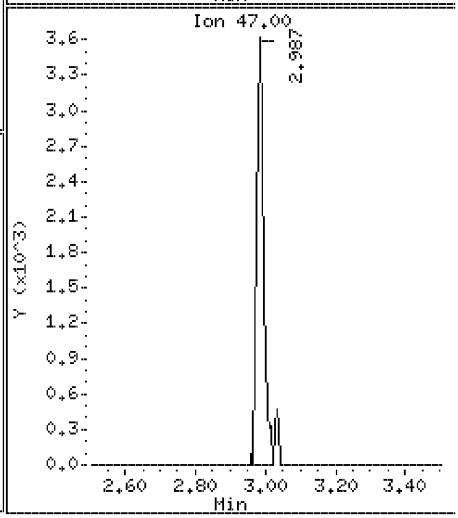


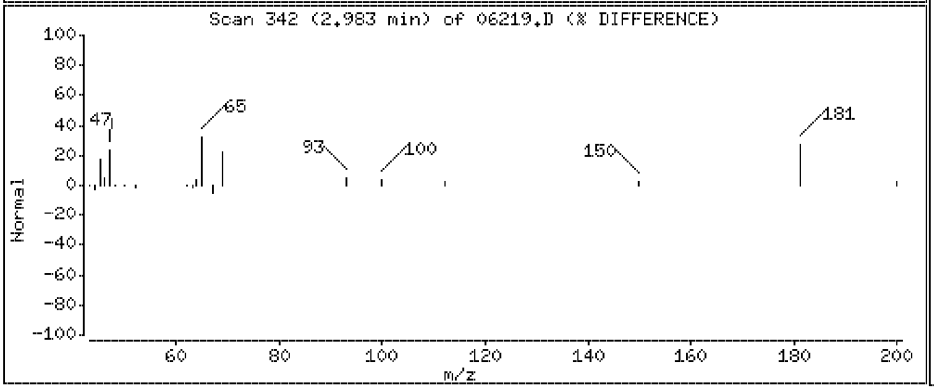












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

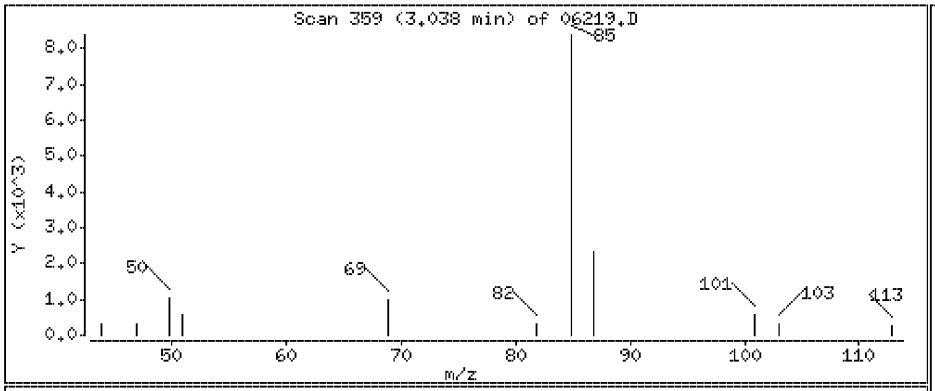
Operator: MJL

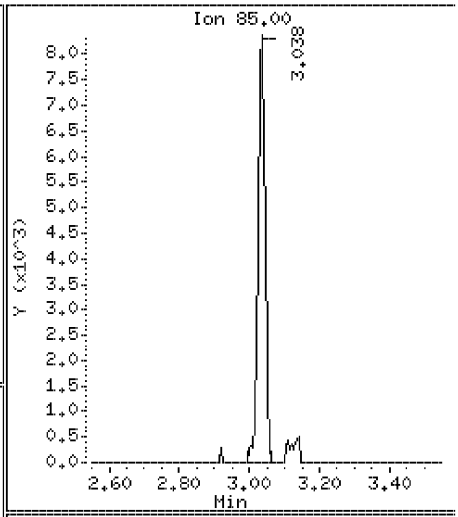
Column phase: J&W DB-5

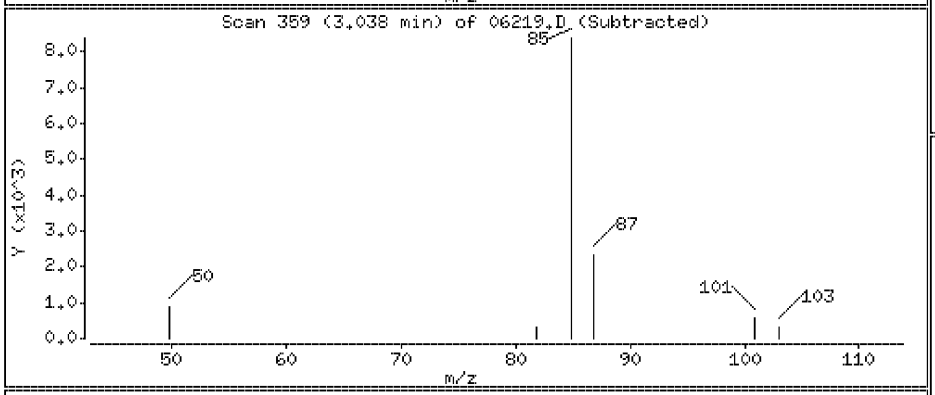
Column diameter: 0.32

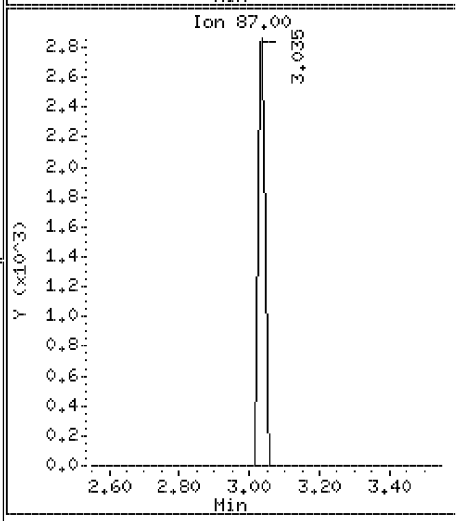
5 Dichlorodifluoromethane

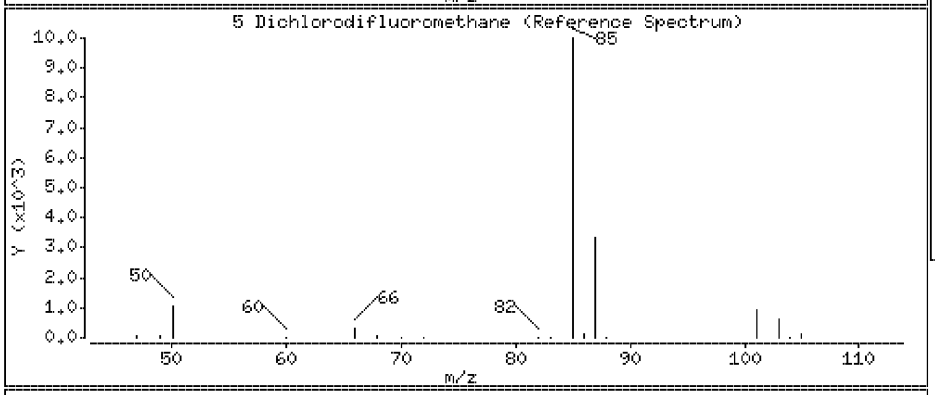
Concentration: 0.391 ppbv

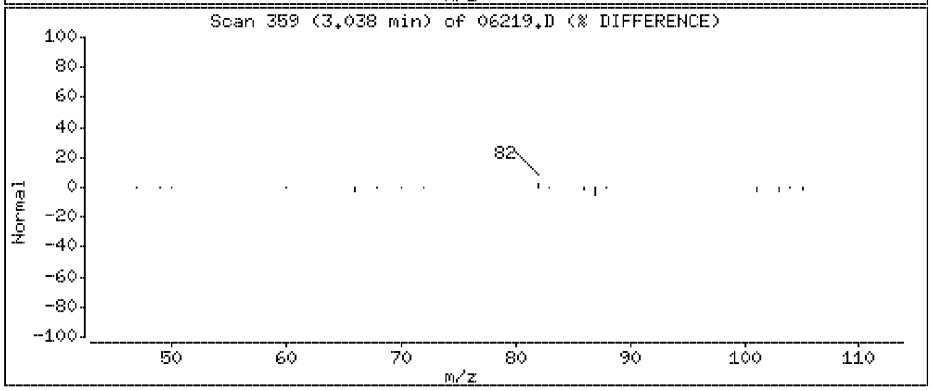












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

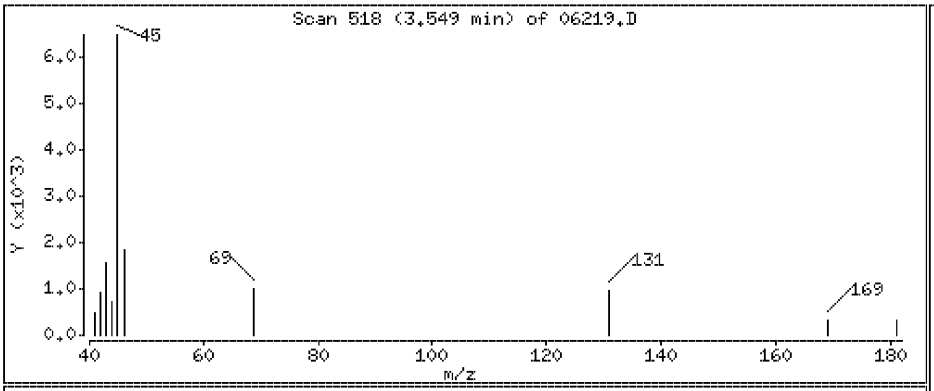
Operator: MJL

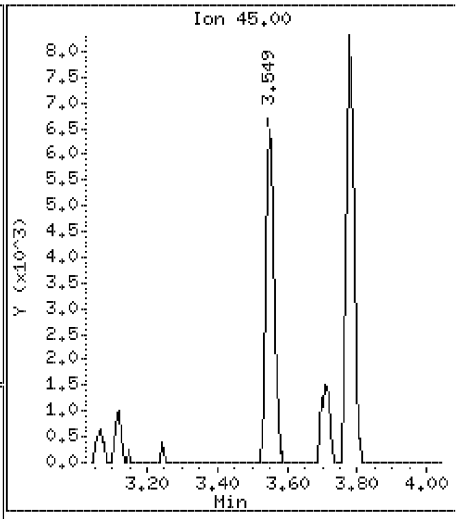
Column phase: J&W DB-5

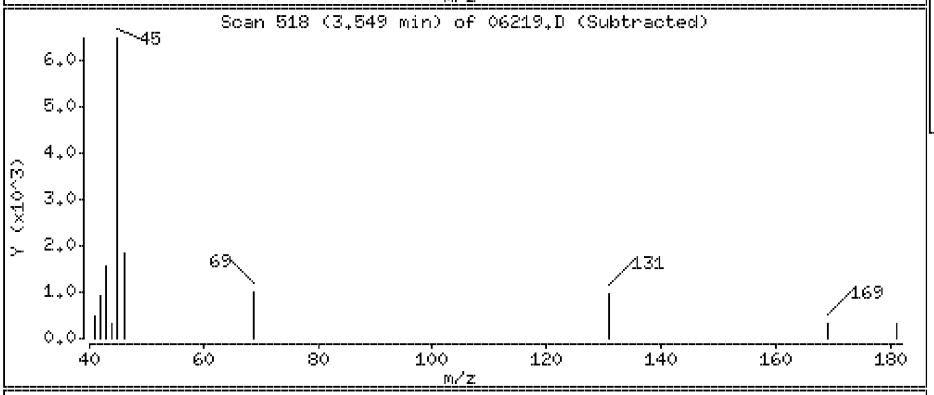
Column diameter: 0.32

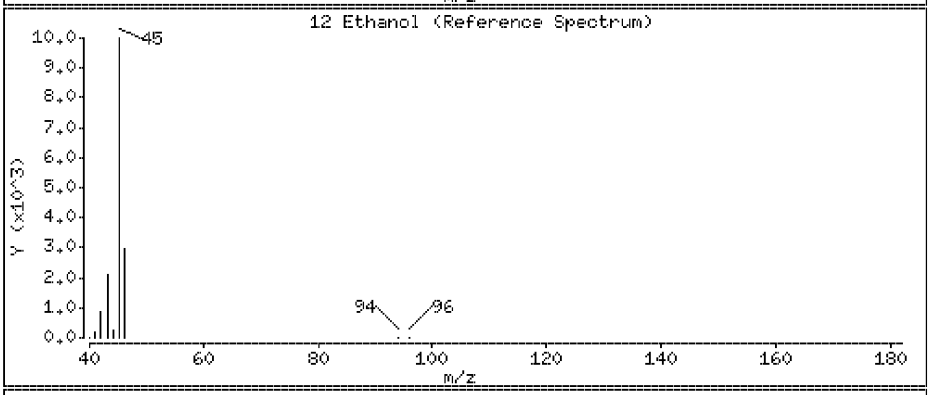
12 Ethanol

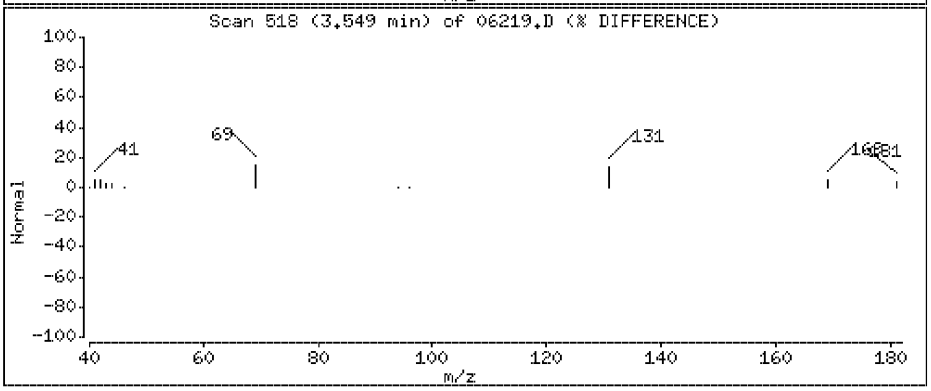
Concentration: 3.69 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

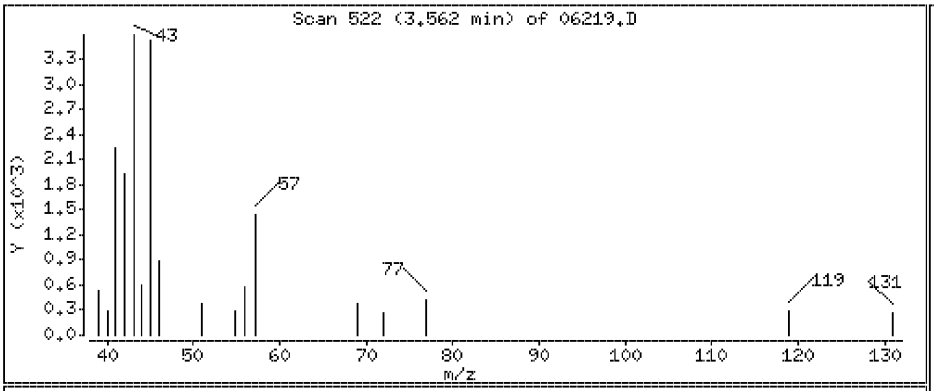
Operator: MJL

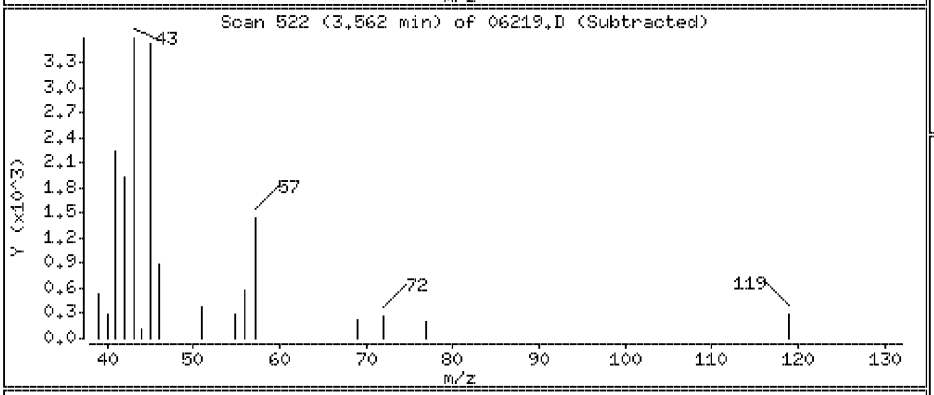
Column phase: J&W DB-5

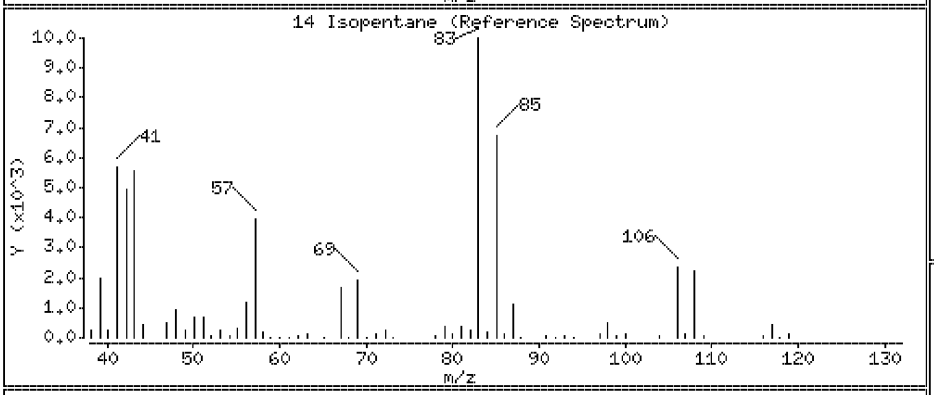
Column diameter: 0.32

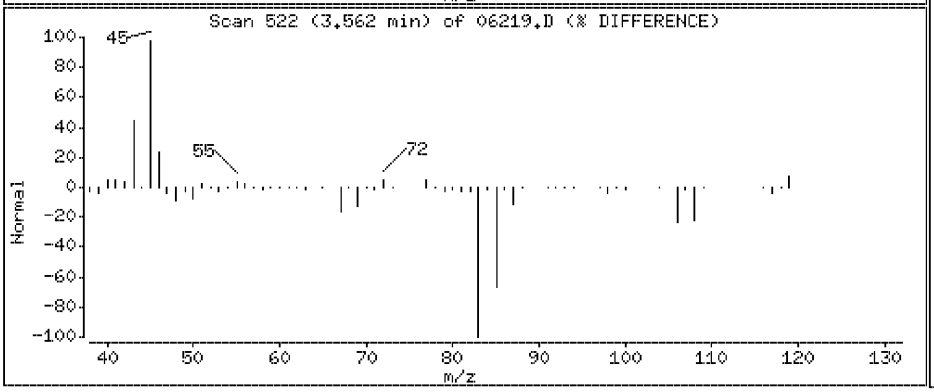
14 Isopentane

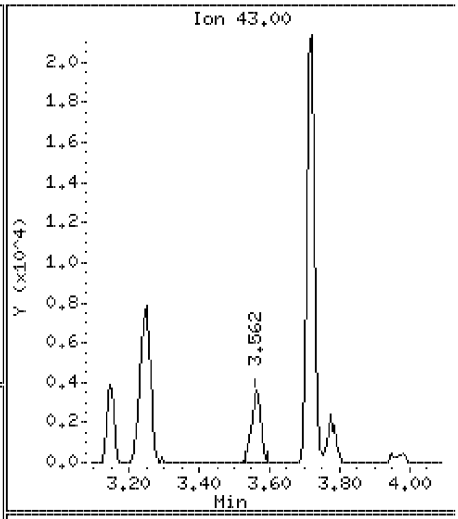
Concentration: 0.587 ppbv

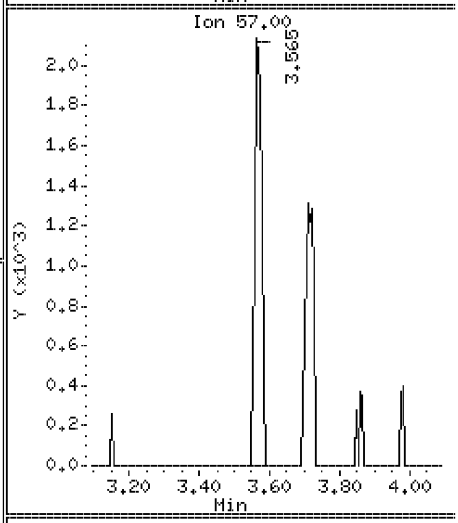


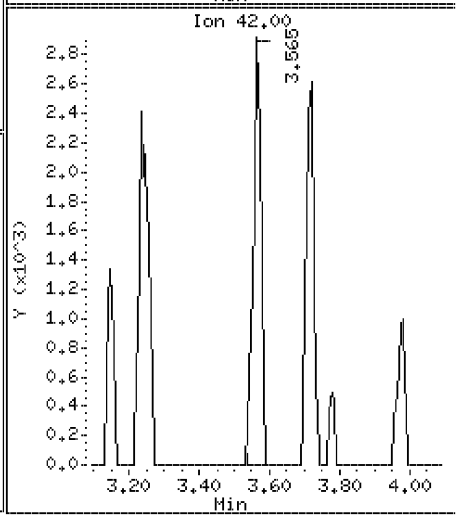












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

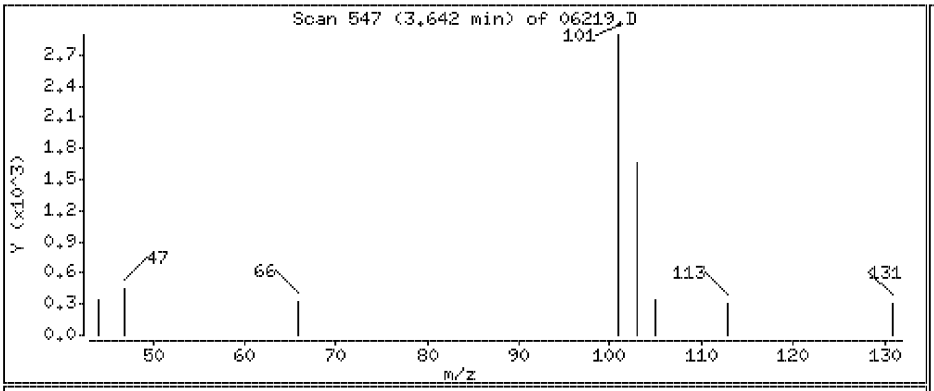
Operator: MJL

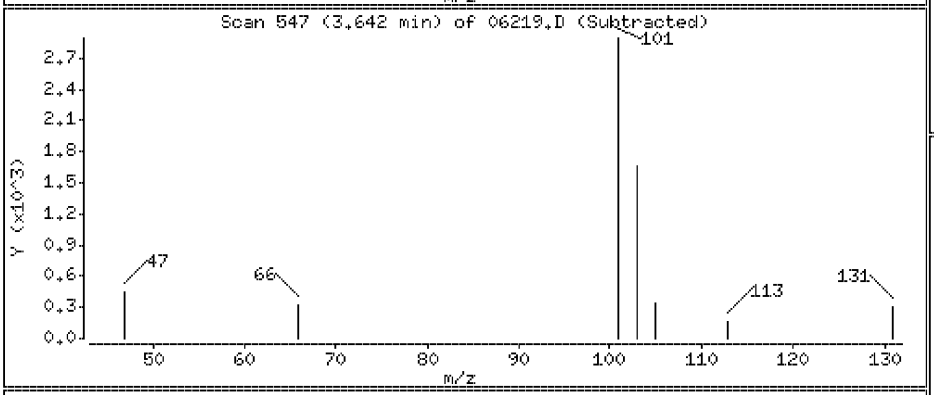
Column phase: J&W DB-5

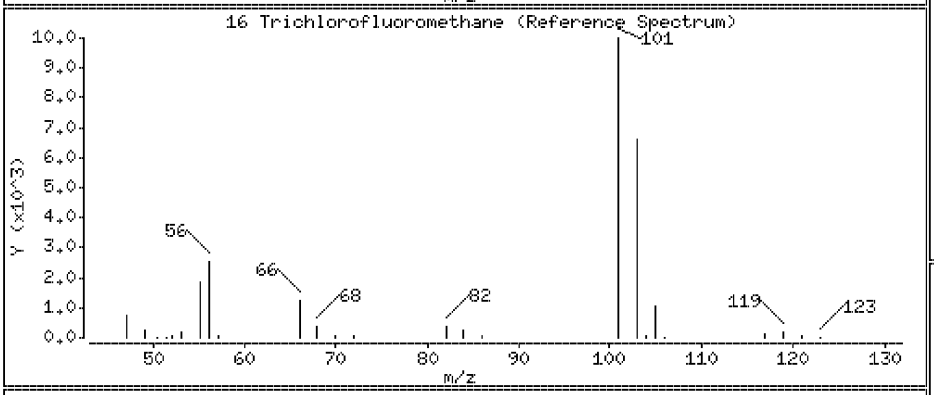
Column diameter: 0.32

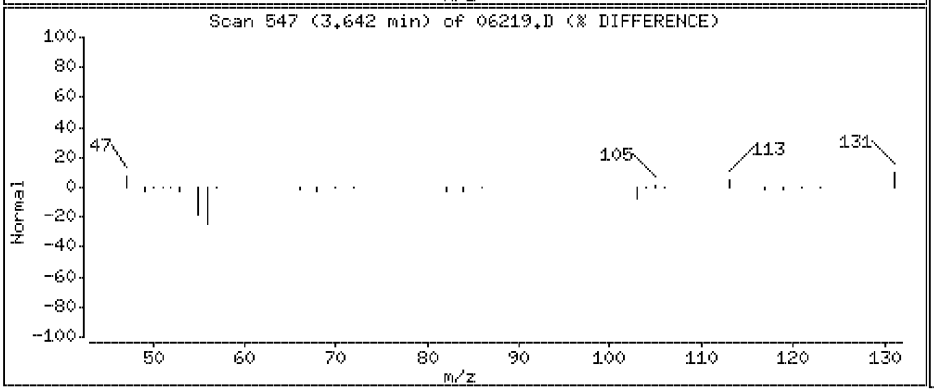
16 Trichlorofluoromethane

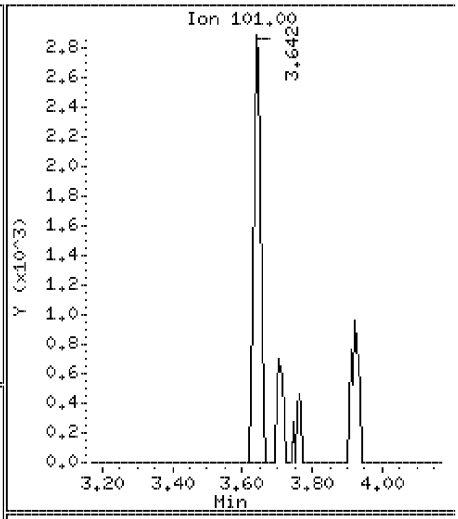
Concentration: 0.185 ppbv

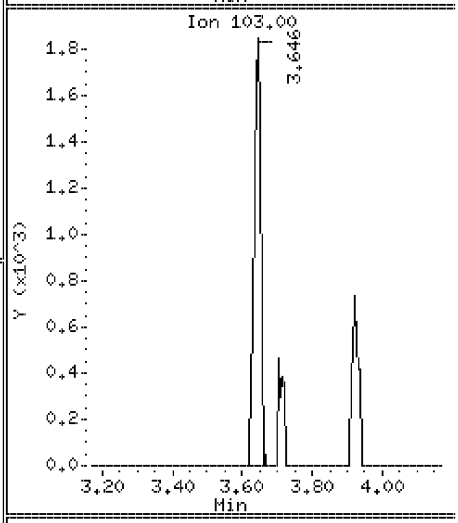


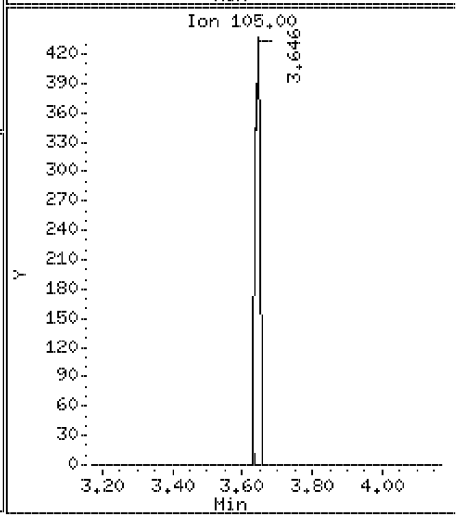












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

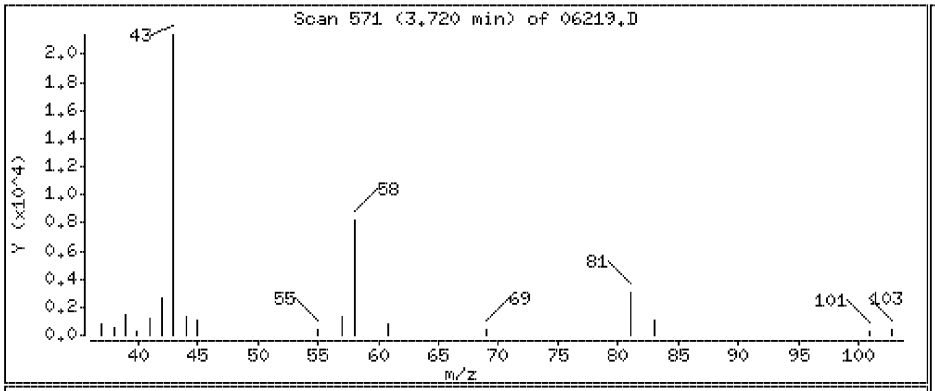
Operator: MJL

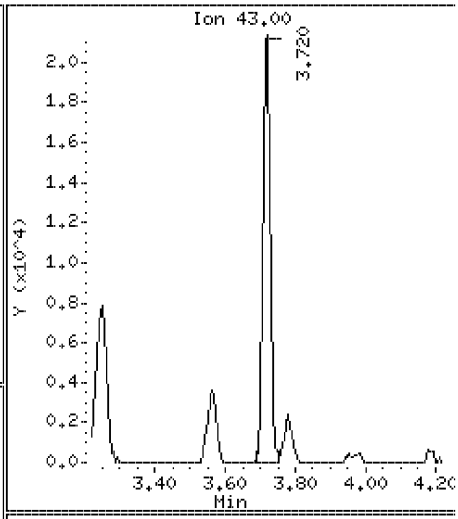
Column phase: J&W DB-5

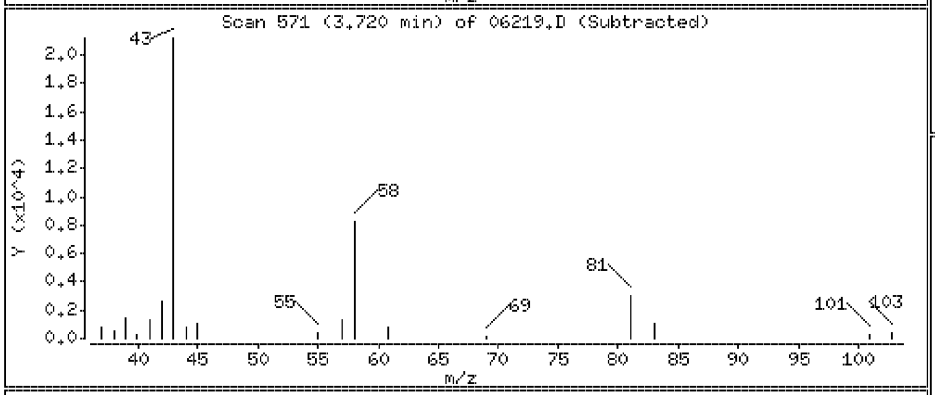
Column diameter: 0.32

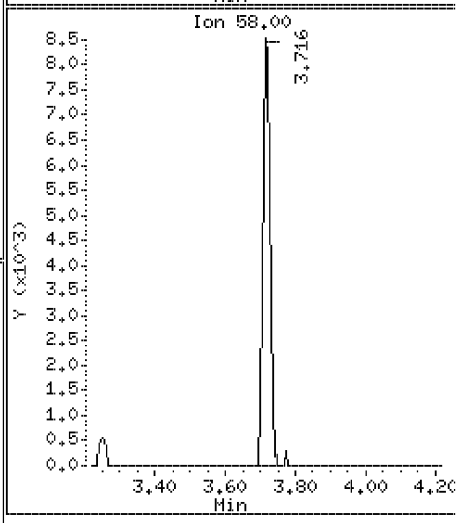
18 Acetone

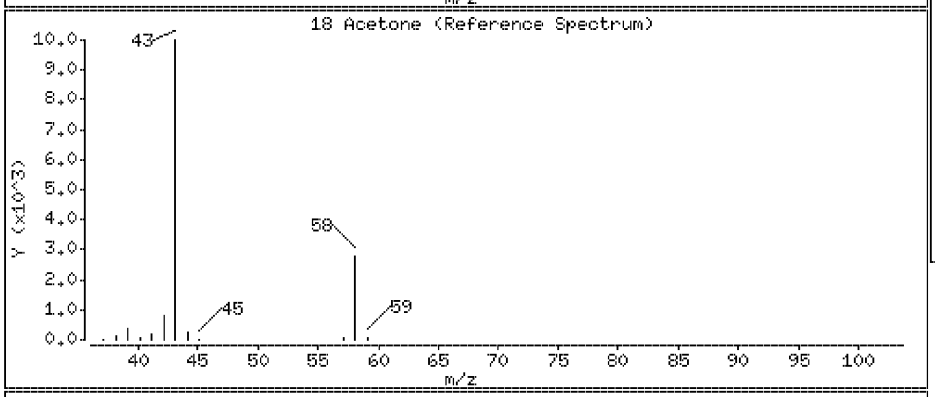
Concentration: 2.47 ppbv

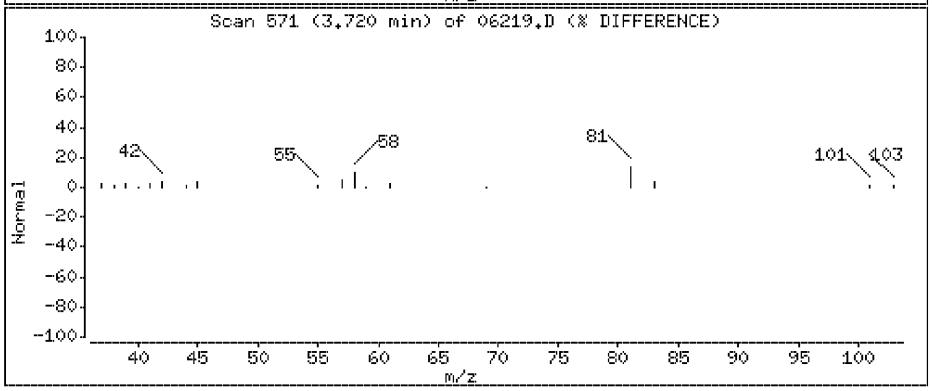












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

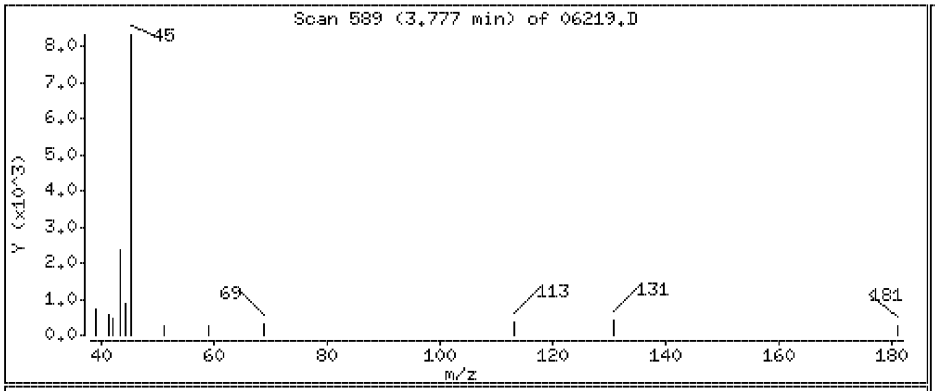
Operator: MJL

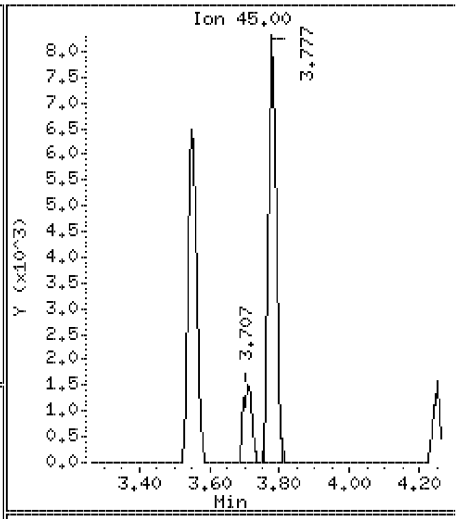
Column phase: J&W DB-5

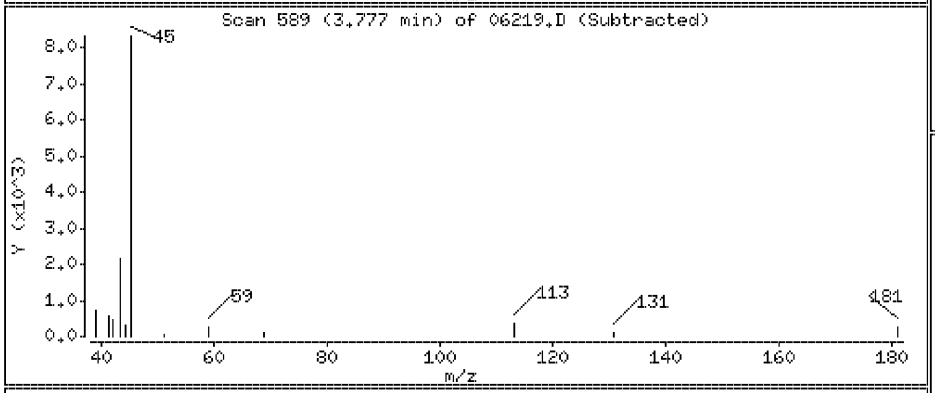
Column diameter: 0.32

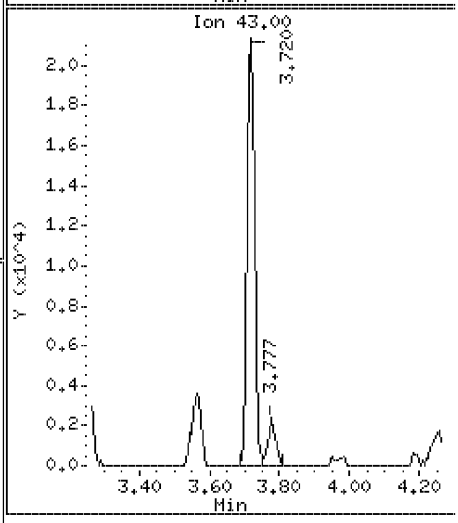
19 Isopropyl Alcohol

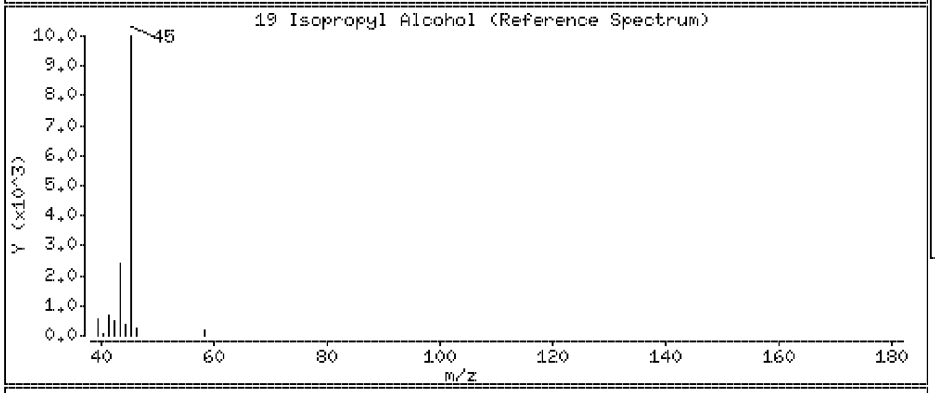
Concentration: 0.999 ppbv

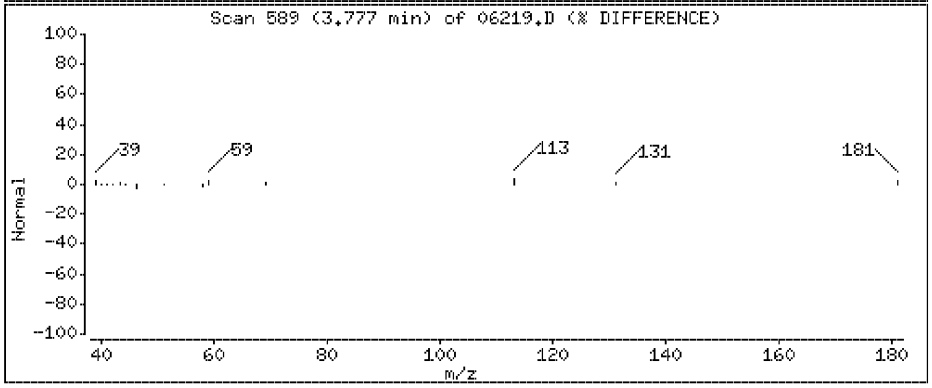












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

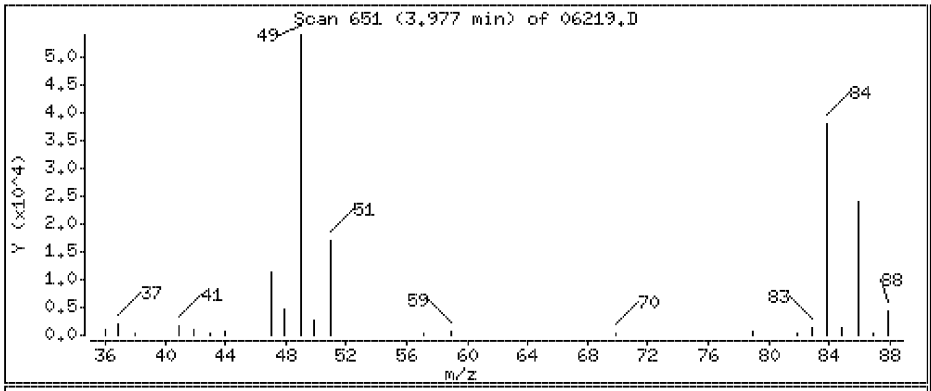
Operator: MJL

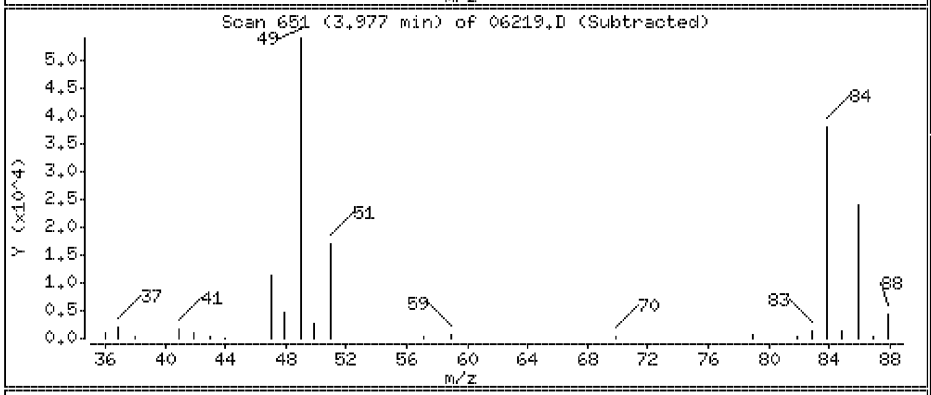
Column phase: J&W DB-5

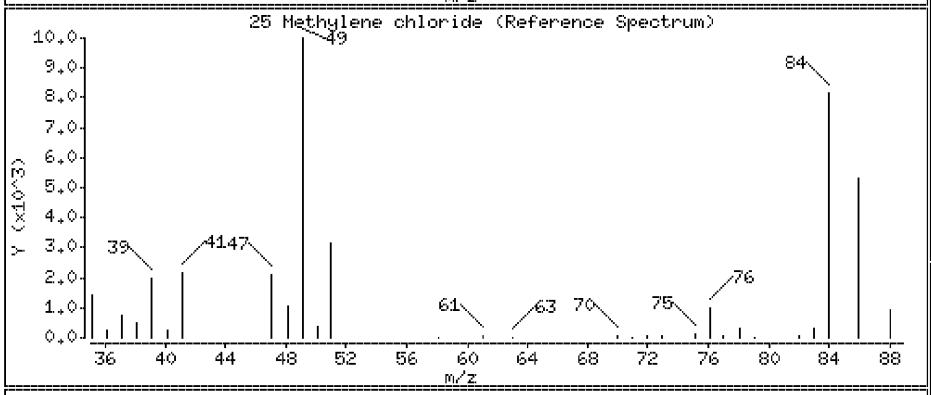
Column diameter: 0.32

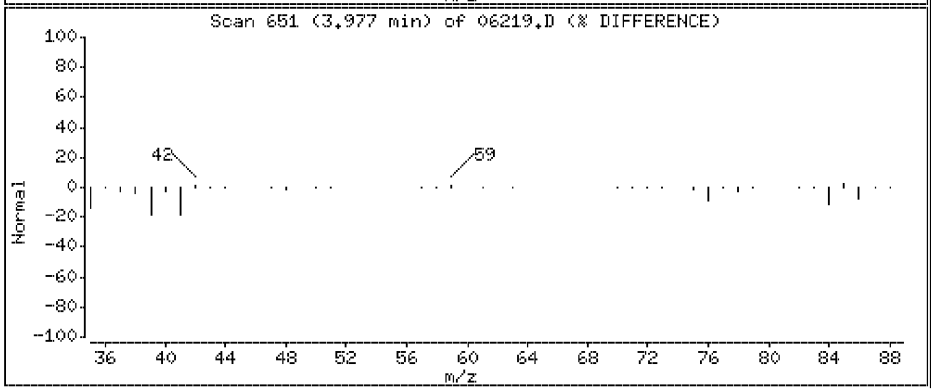
25 Methylene chloride

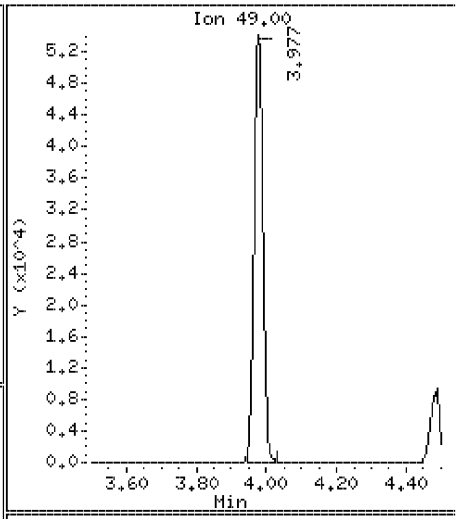
Concentration: 10.8 ppbv

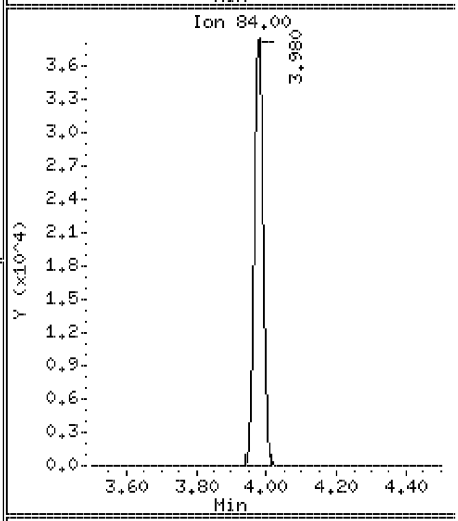


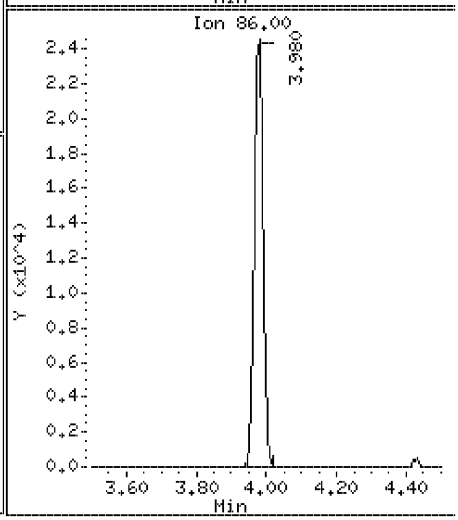












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

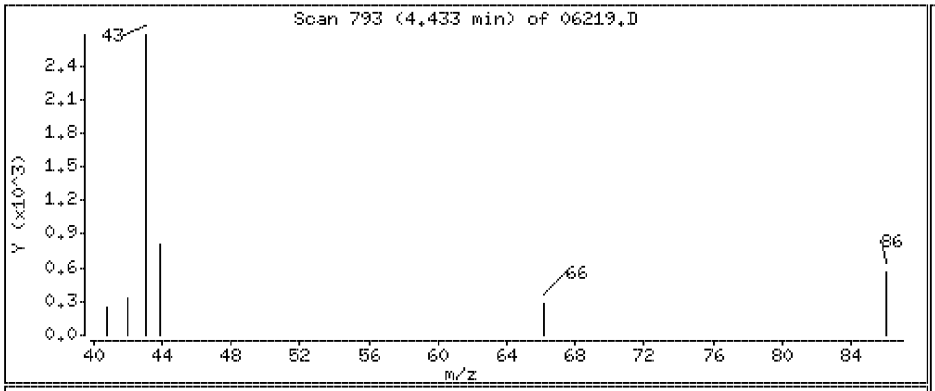
Operator: MJL

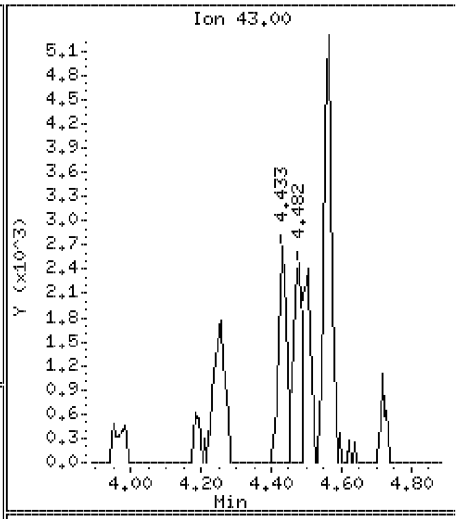
Column phase: J&W DB-5

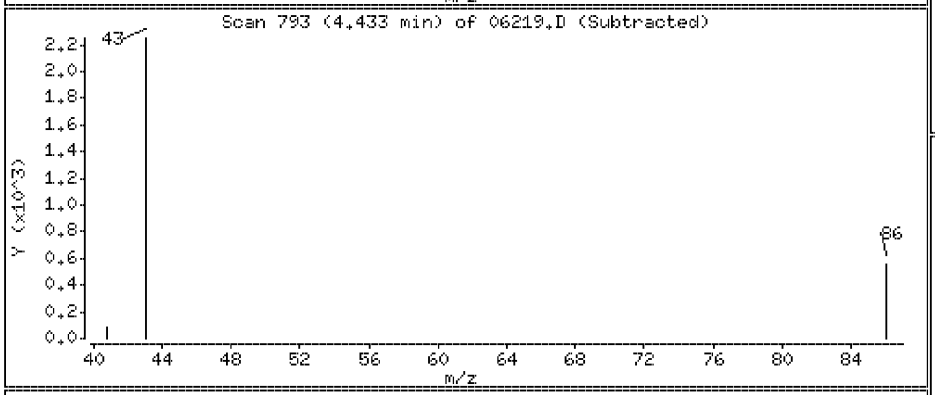
Column diameter: 0.32

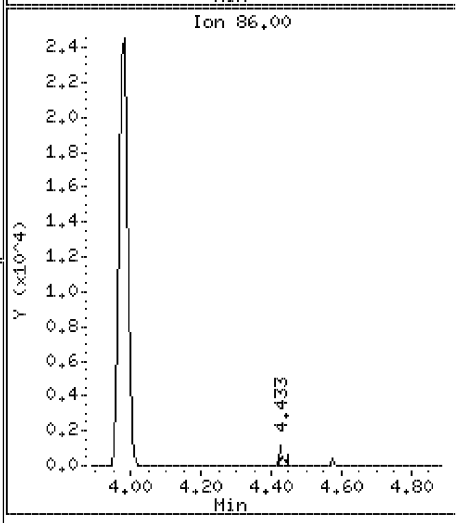
30 Vinyl Acetate

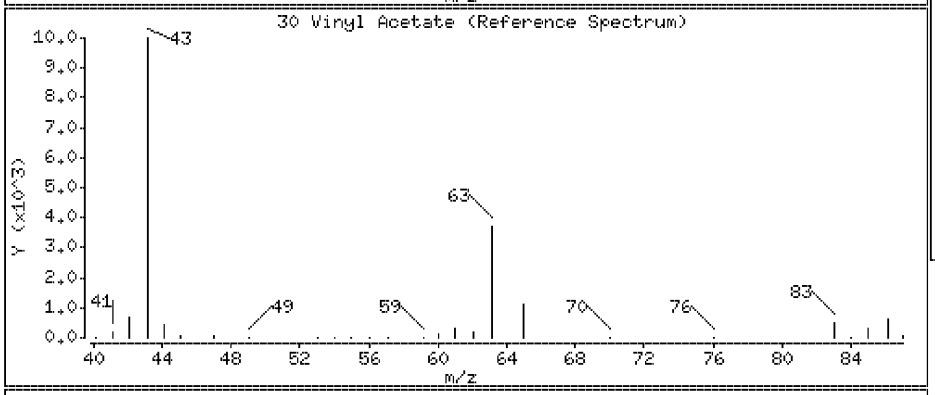
Concentration: 0.539 ppbv

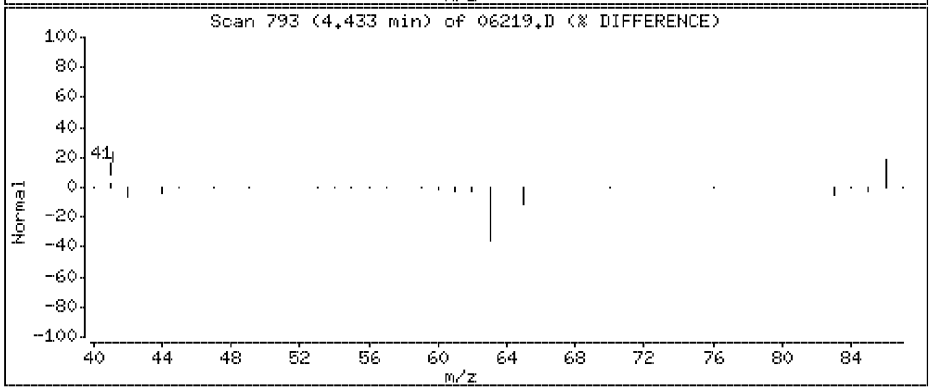












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

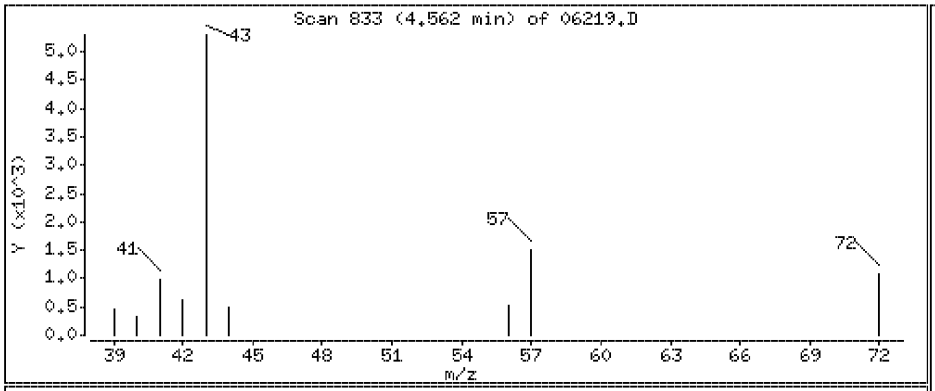
Operator: MJL

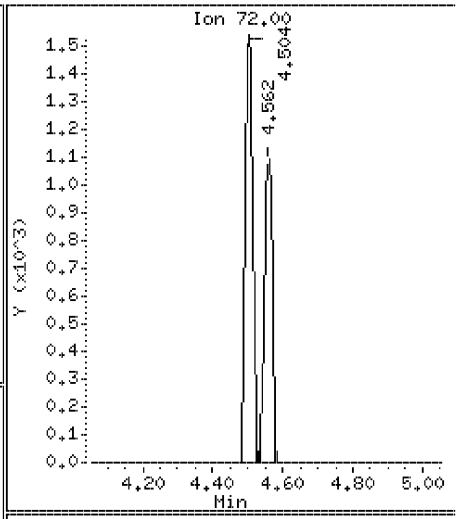
Column phase: J&W DB-5

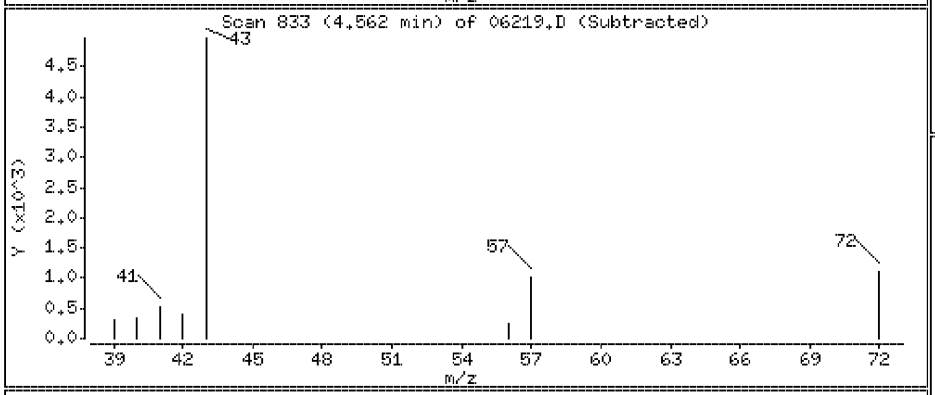
Column diameter: 0.32

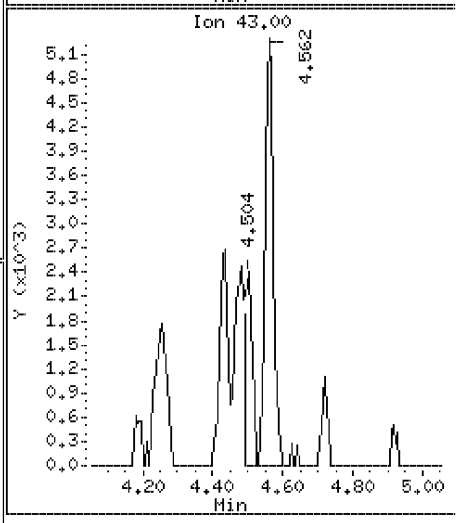
33 Methyl Ethyl Ketone

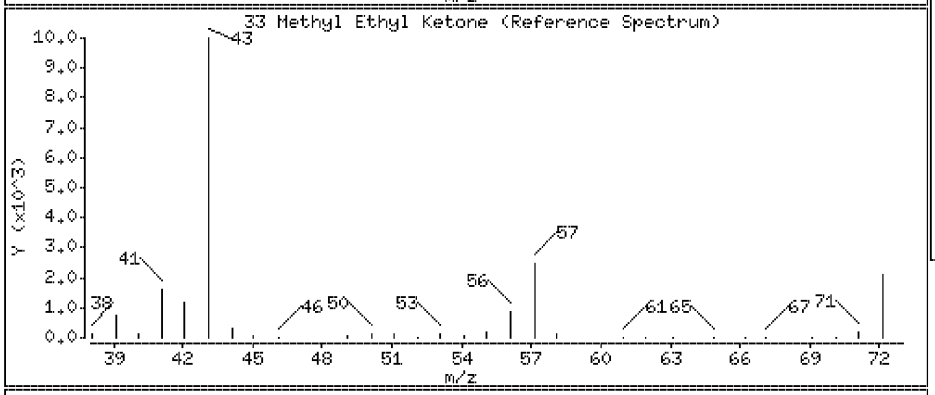
Concentration: 0.567 ppbv

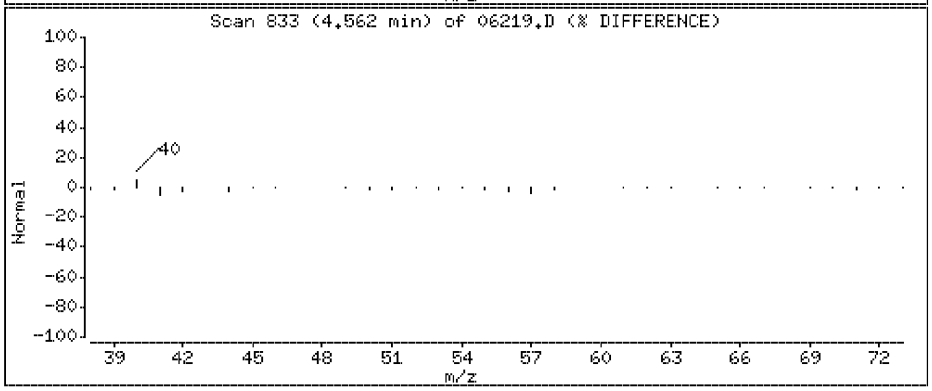












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

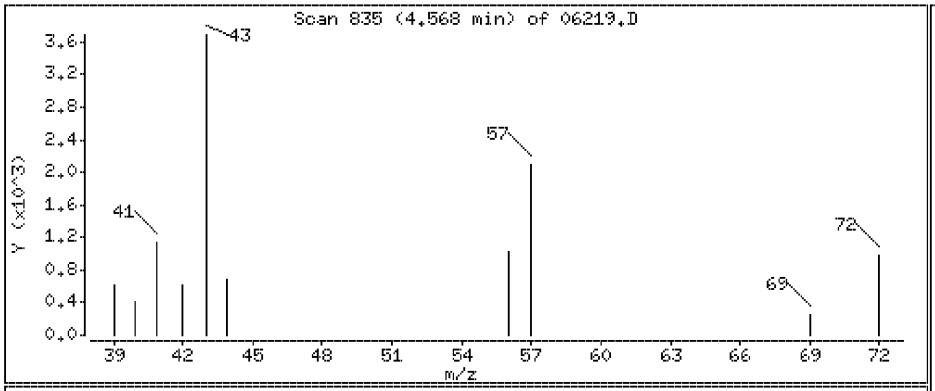
Operator: MJL

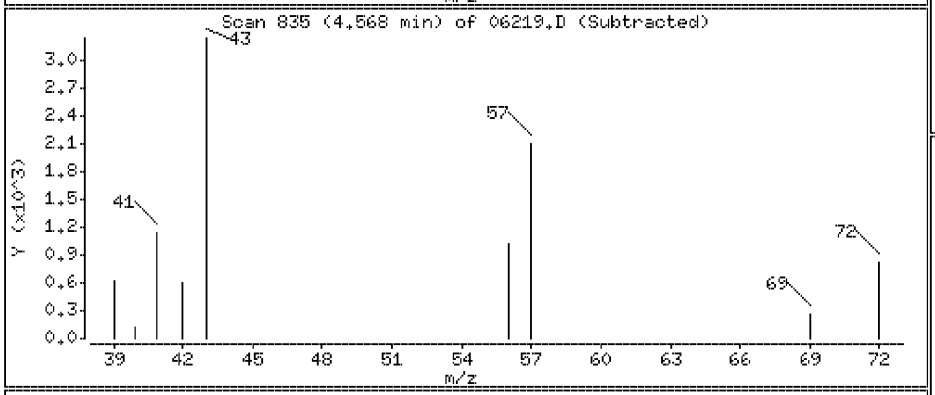
Column phase: J&W DB-5

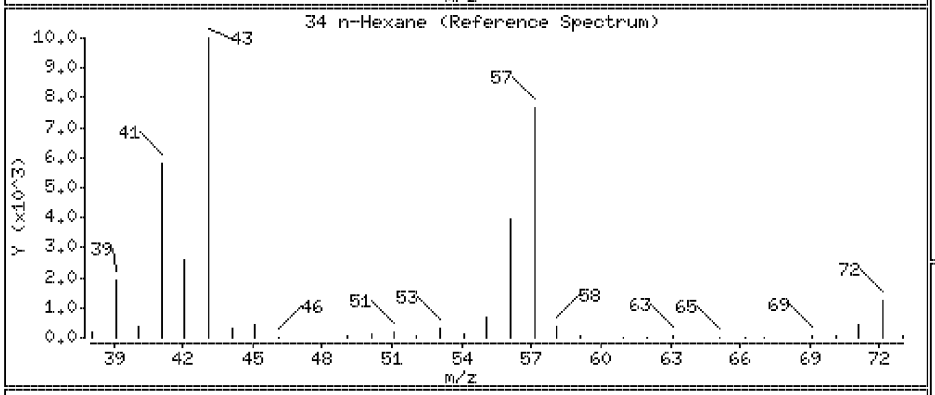
Column diameter: 0.32

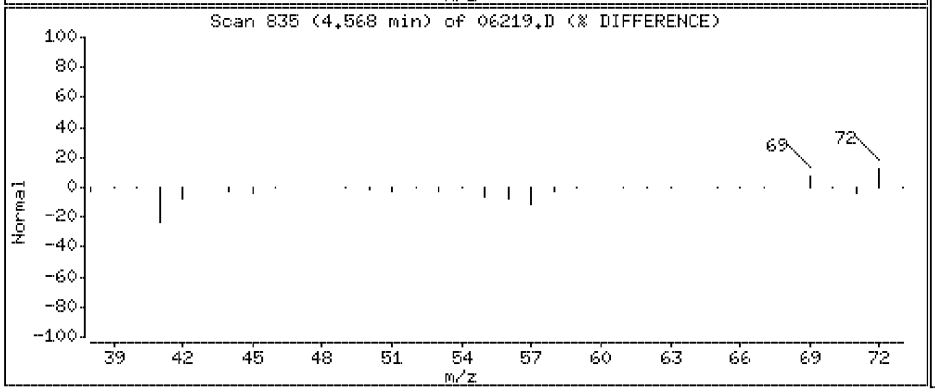
34 n-Hexane

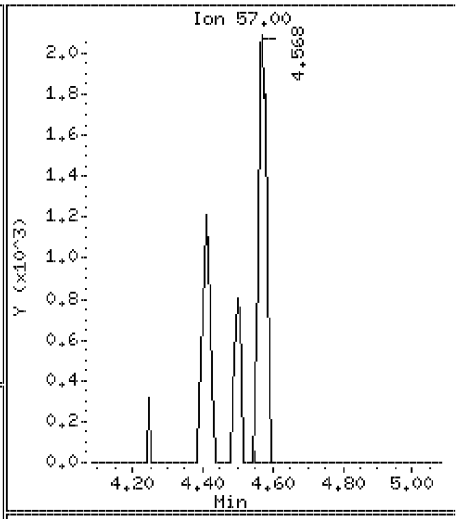
Concentration: 0.286 ppbv

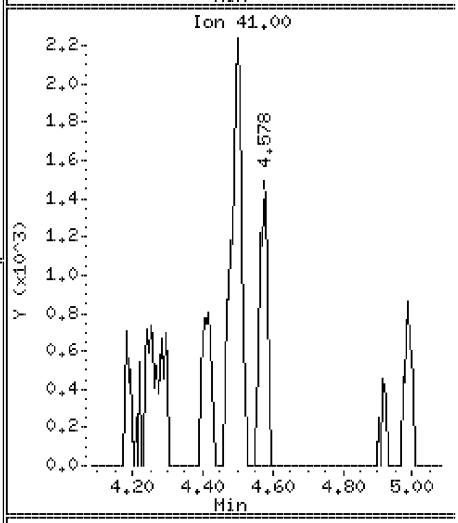


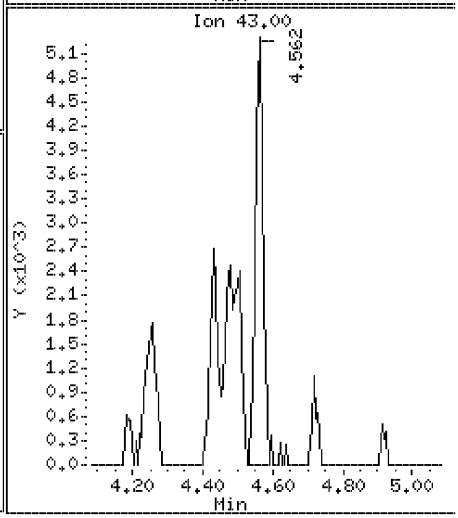












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

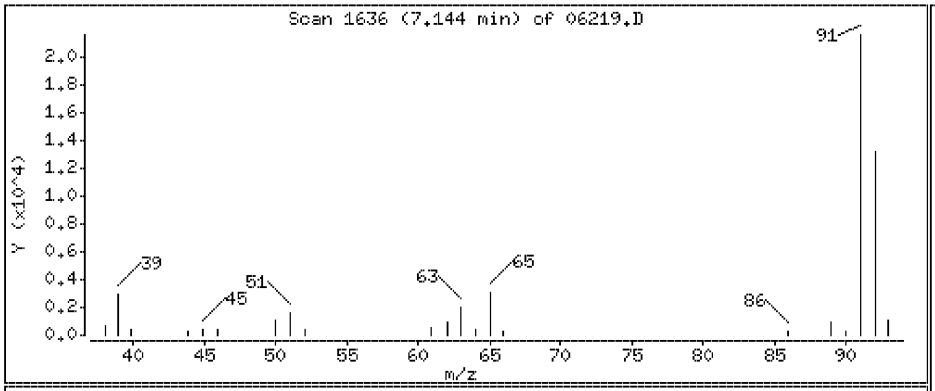
Operator: MJL

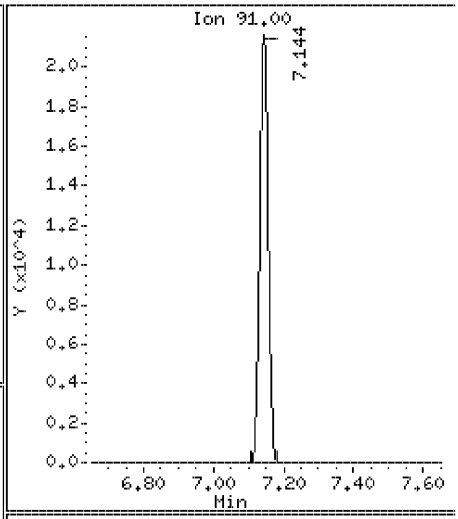
Column phase: J&W DB-5

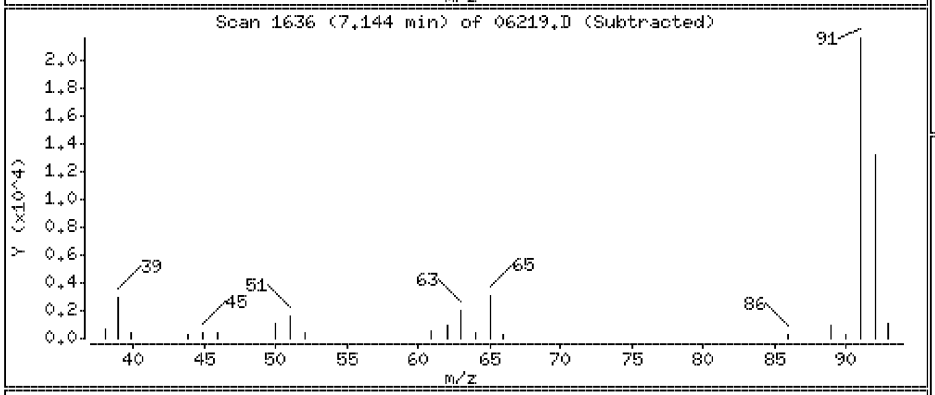
Column diameter: 0.32

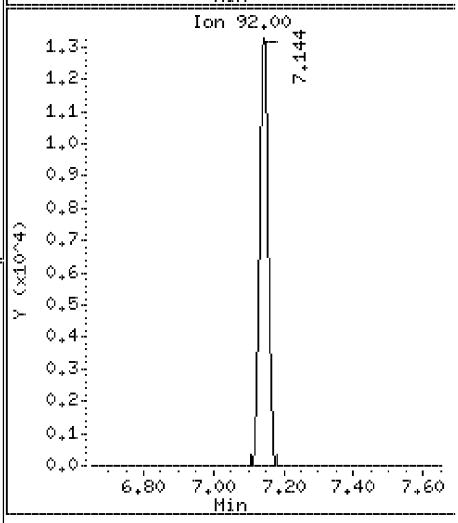
61 Toluene

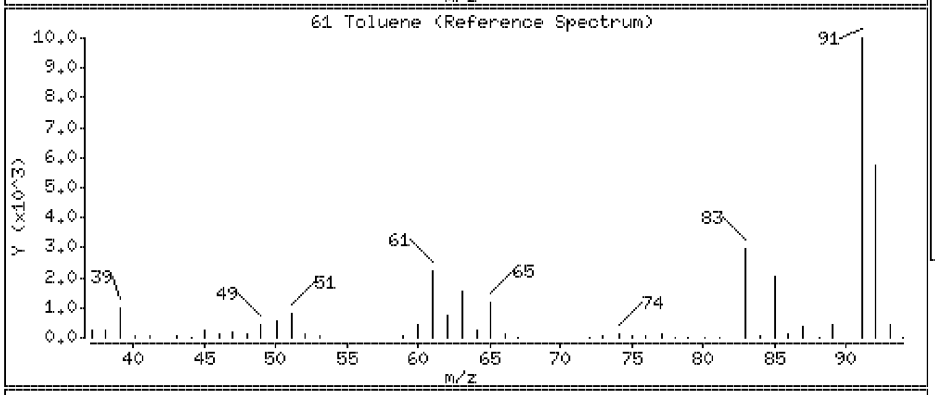
Concentration: 1.14 ppbv

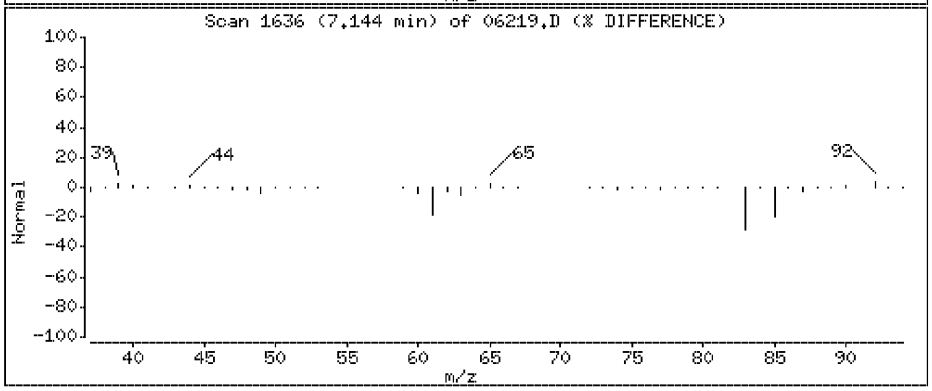












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

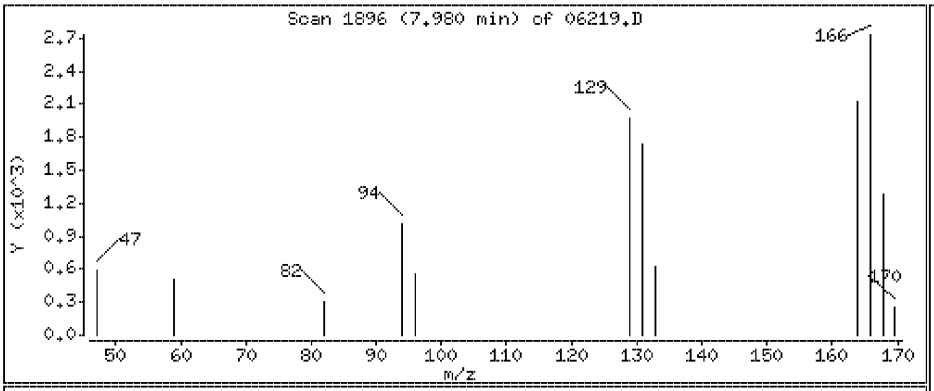
Operator: MJL

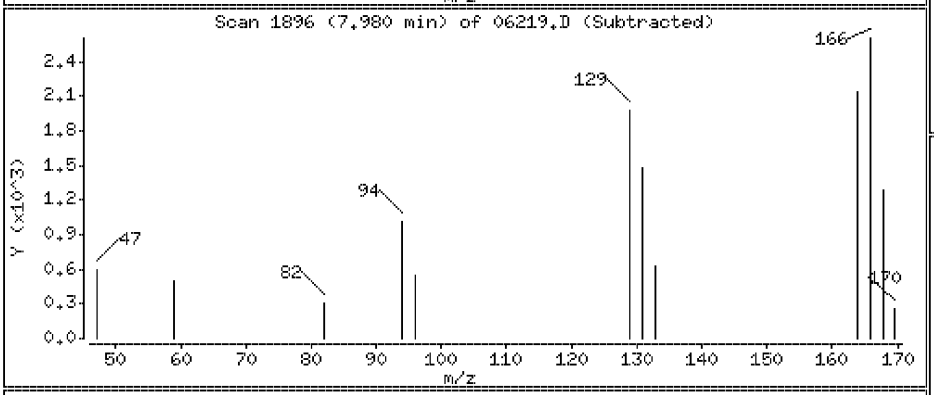
Column phase: J&W DB-5

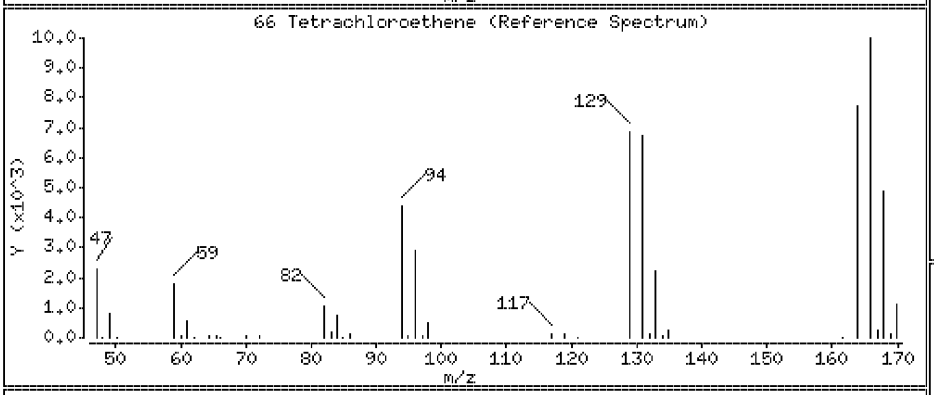
Column diameter: 0.32

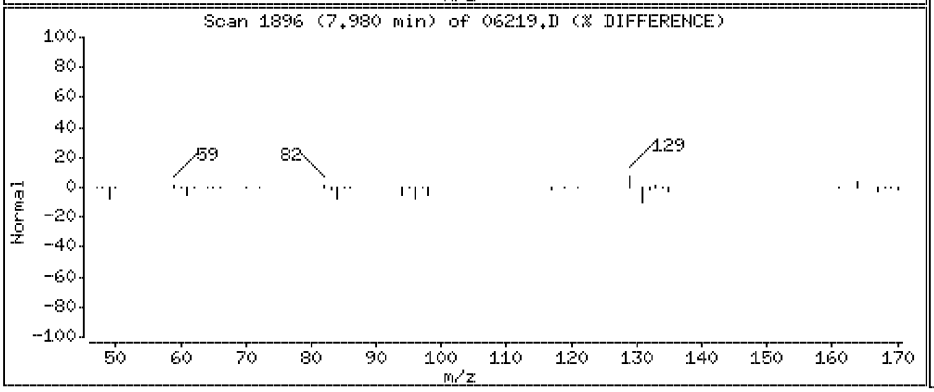
66 Tetrachloroethene

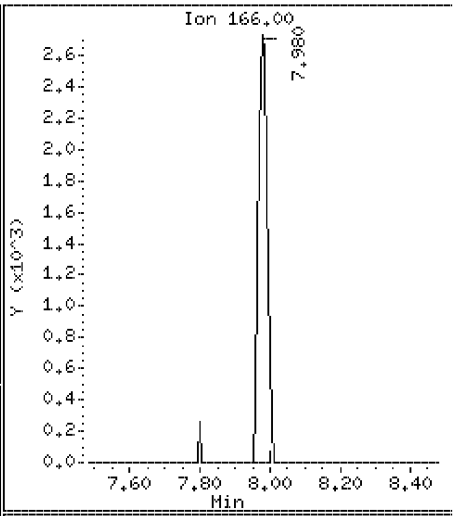
Concentration: 0.270 ppbv

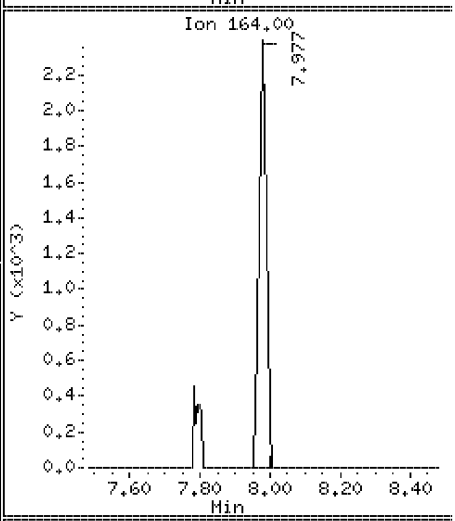


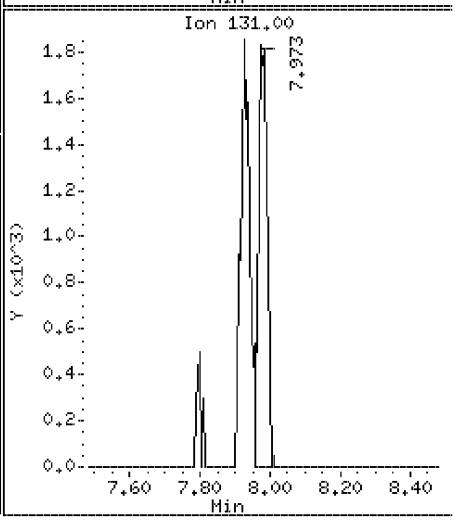












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06219.D

Date : 03-MAR-2017 16:52

Client ID:

Instrument: 10airB.i

Sample Info:

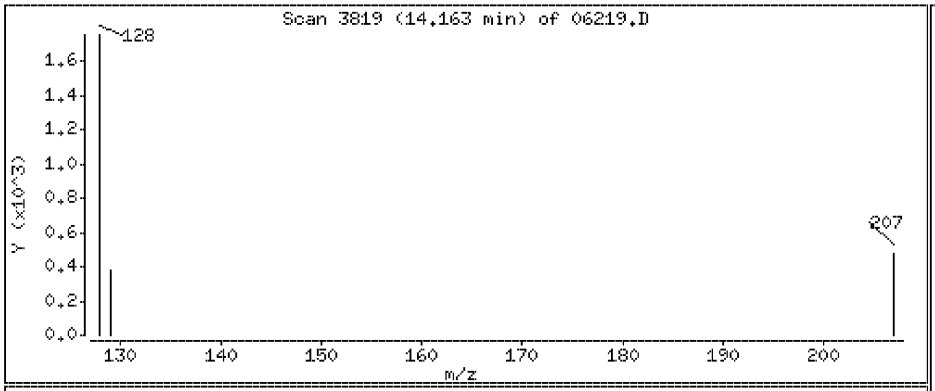
Operator: MJL

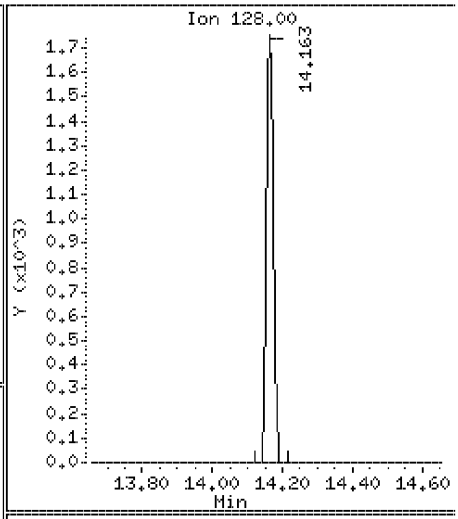
Column phase: J&W DB-5

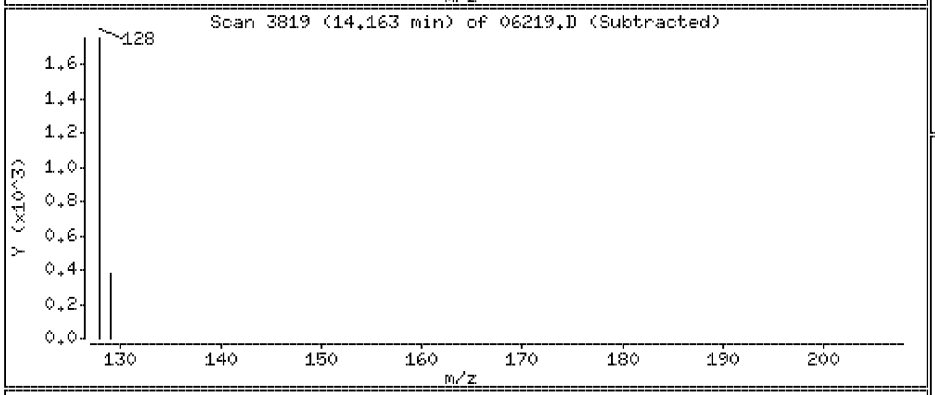
Column diameter: 0.32

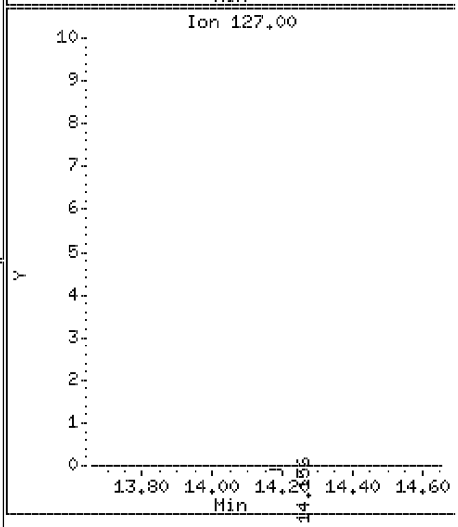
94 Naphthalene

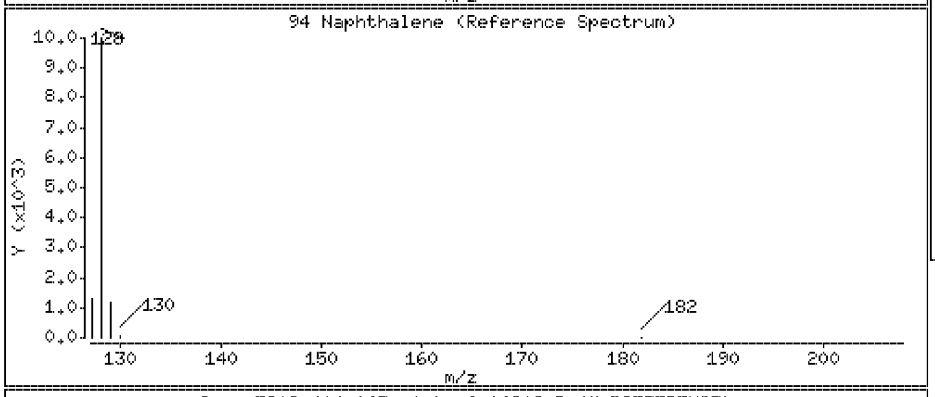
Concentration: 0.734 ppbv

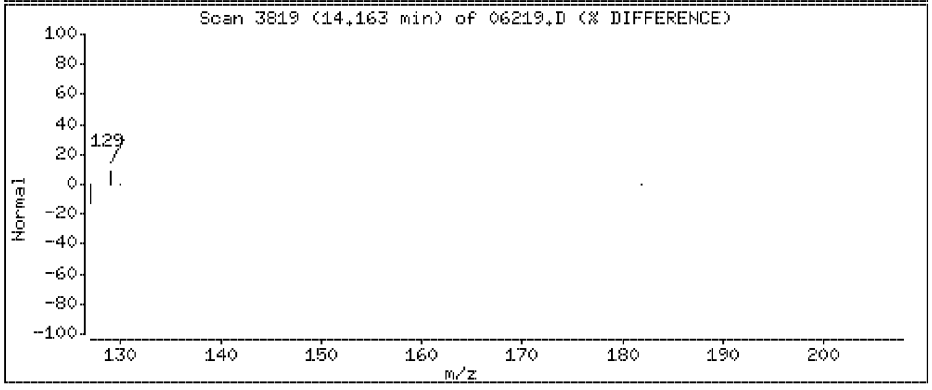






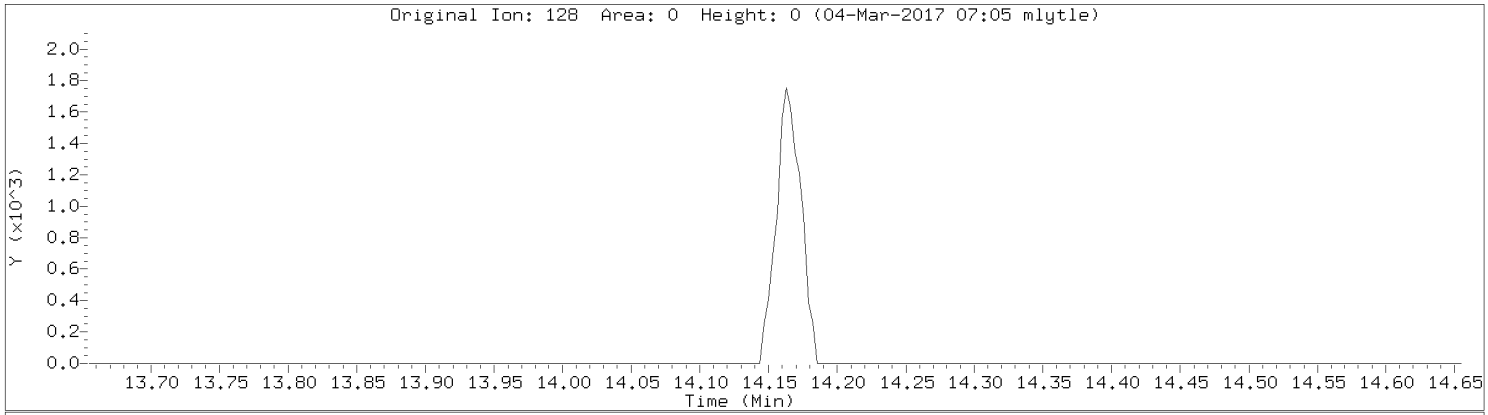


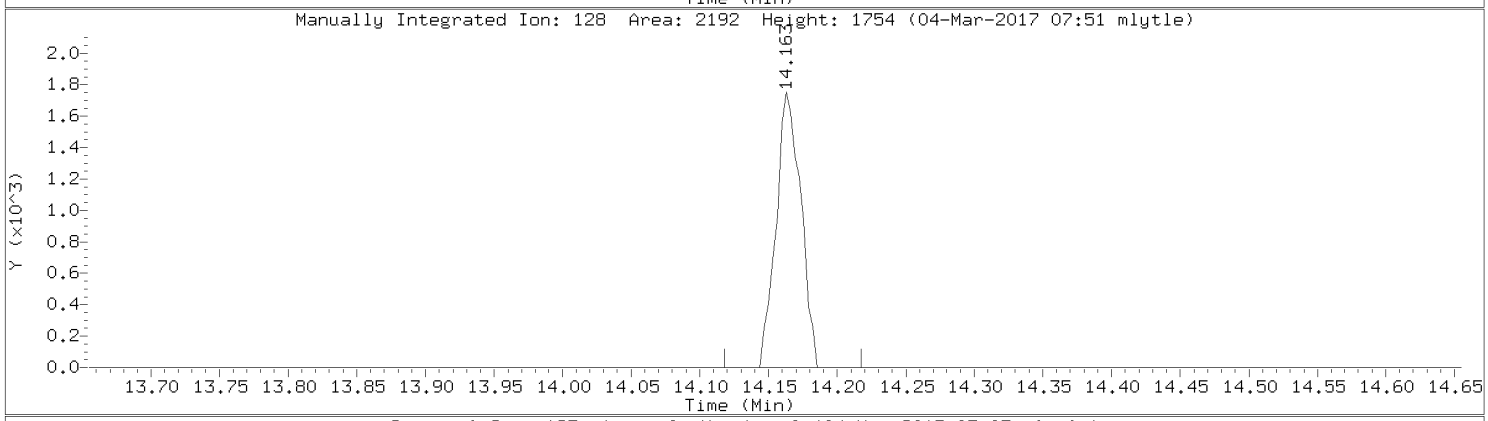


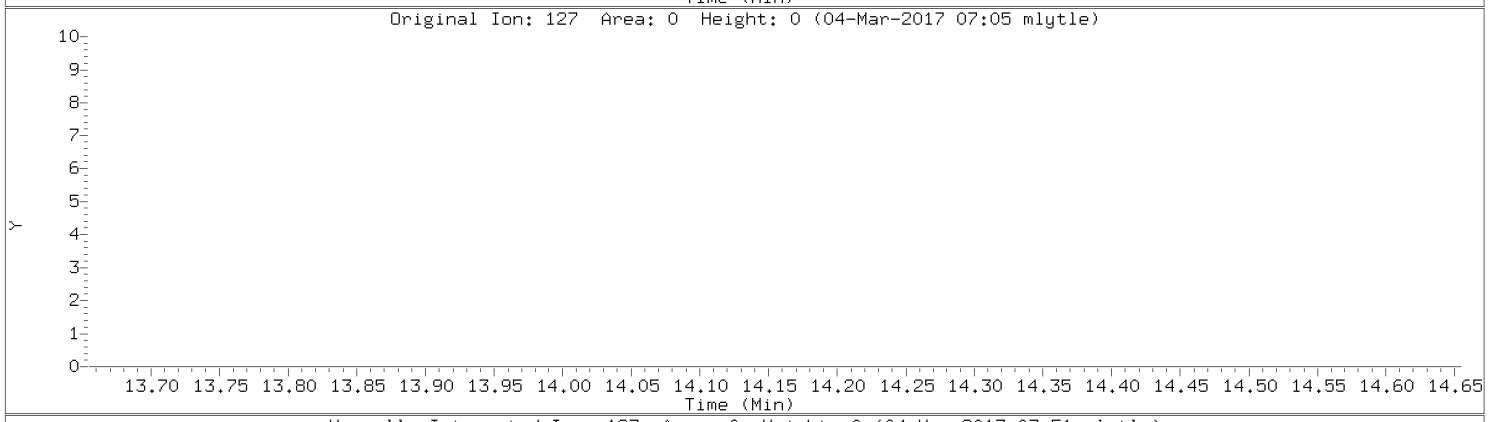


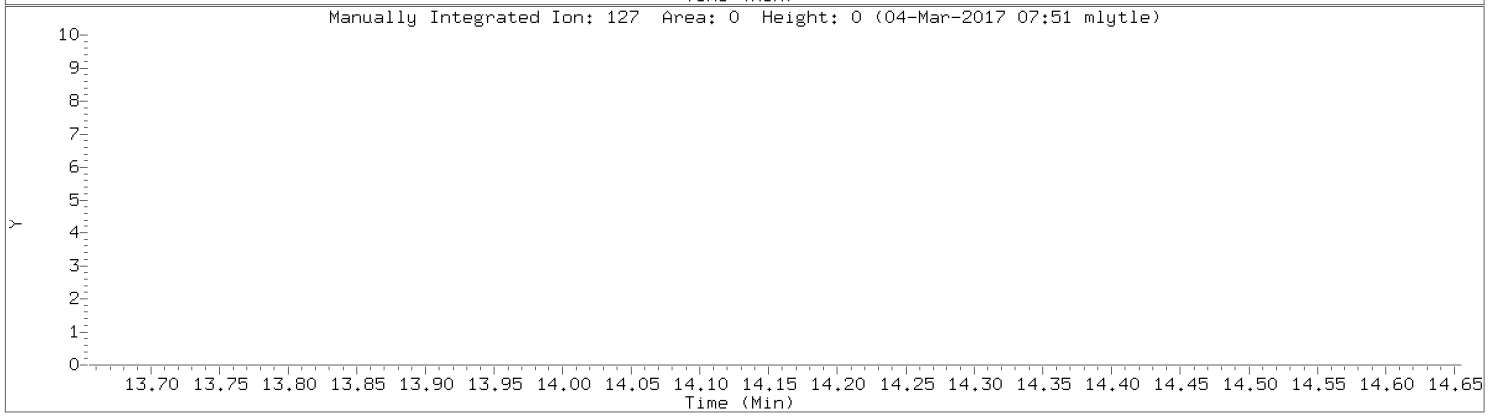
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06219.D
Injection Date: 03-MAR-2017 16:52
Instrument: 10airB.i
Lab Sample ID: 10379929002

Compound: Naphthalene
CAS Number: 91-20-3



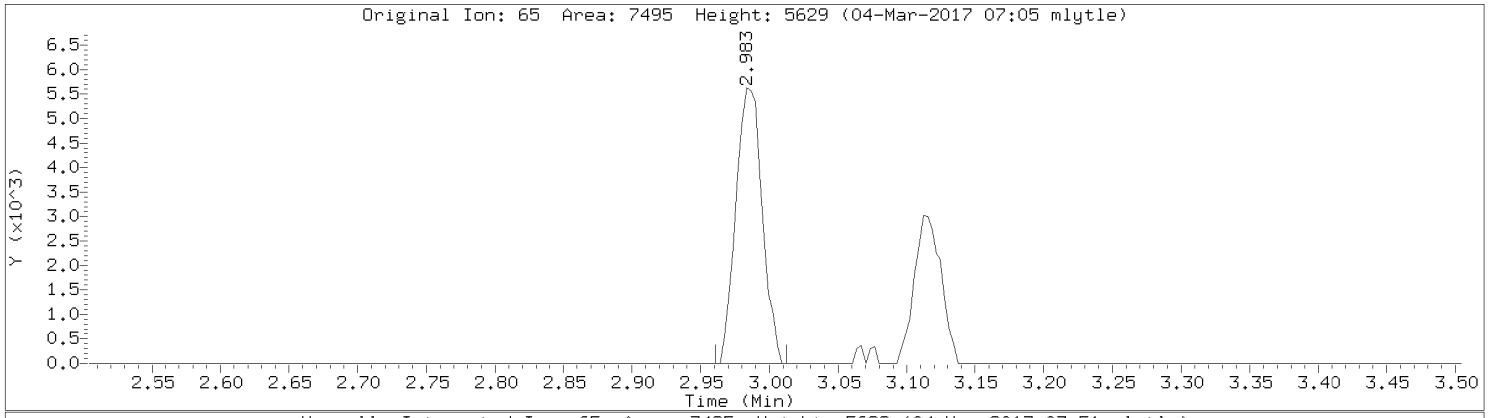


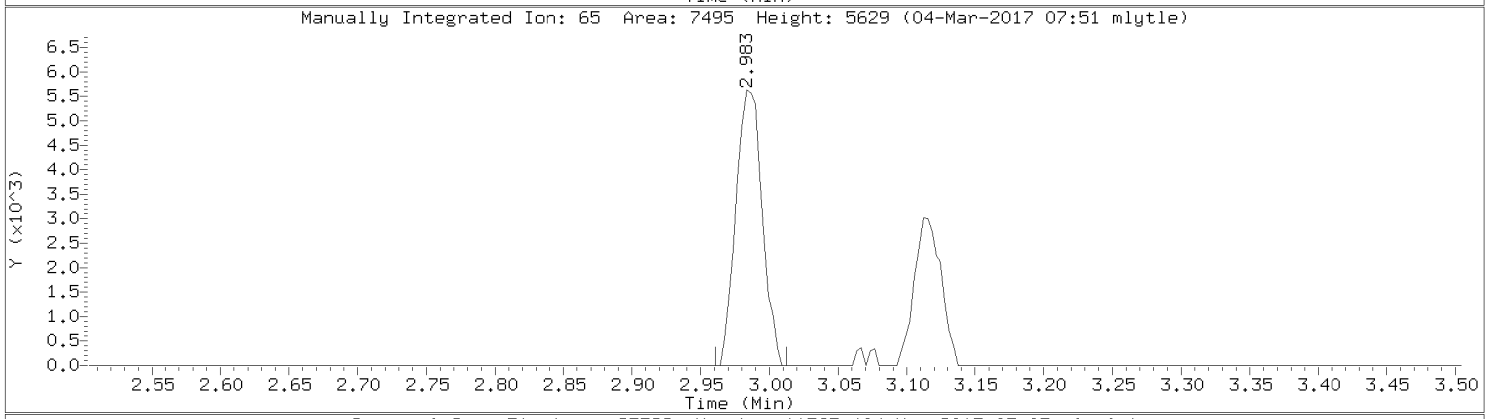


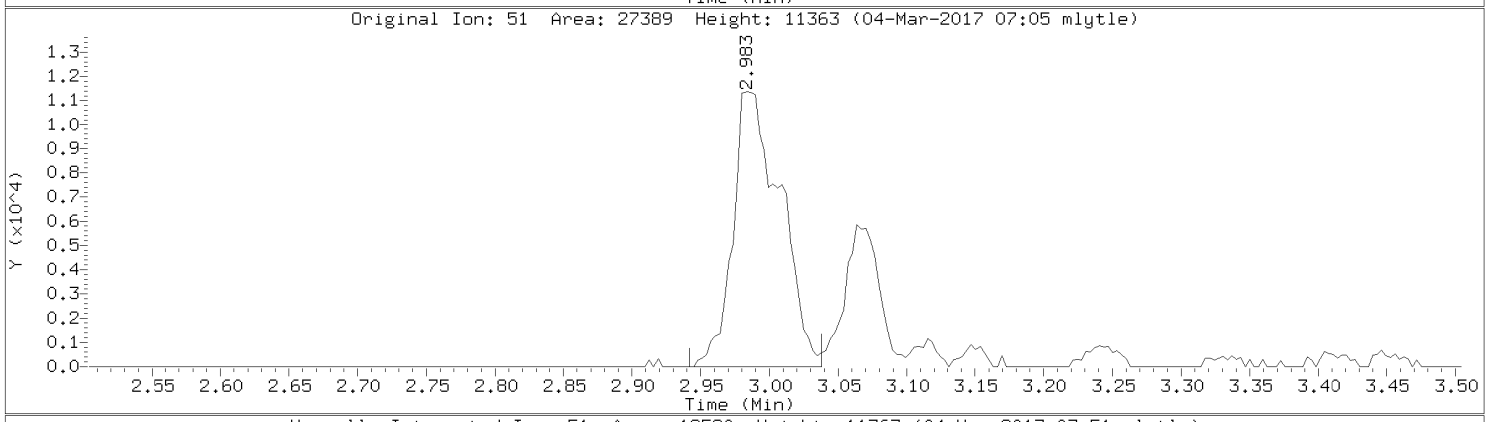


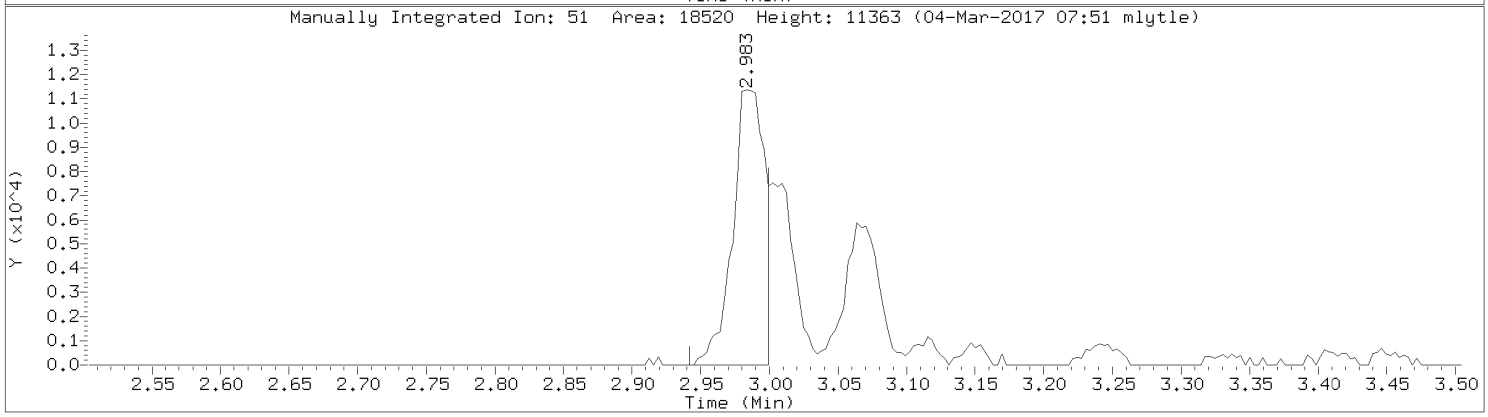
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06219.D
Injection Date: 03-MAR-2017 16:52
Instrument: 10airB.i
Lab Sample ID: 10379929002

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

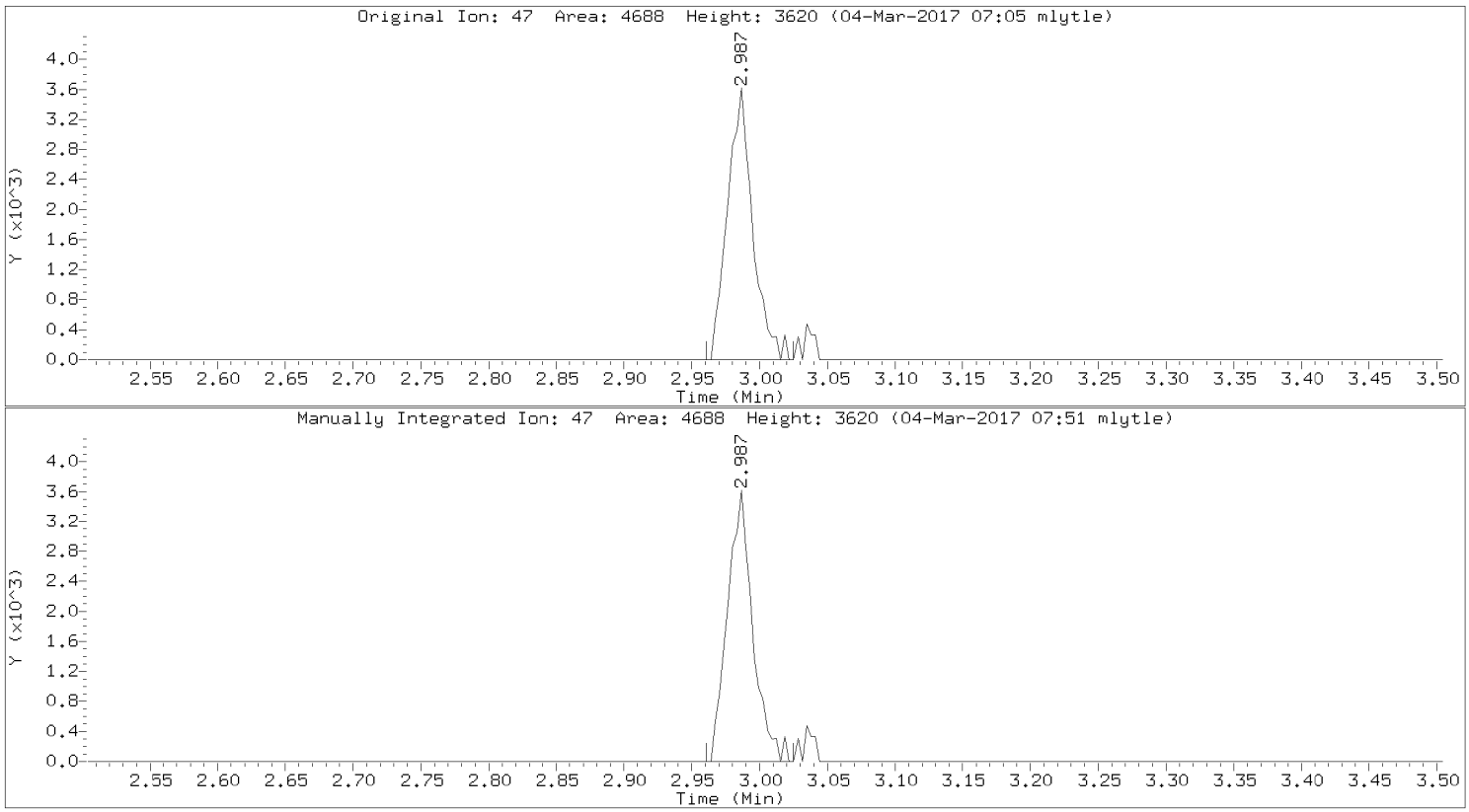








Data File: \\192.168.10.12\chem\10airB.i\030317.b/06219.D
Injection Date: 03-MAR-2017 16:52
Instrument: 10airB.i
Lab Sample ID: 10379929002



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_19_20170221 **Lab ID: 10379929003** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**7.1**	ug/m3	4.2	1.5	1.75		03/03/17 17:55	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 17:55	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/03/17 17:55	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 17:55	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 17:55	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 17:55	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 17:55	106-99-0	
2-Butanone (MEK)	**1.8J**	ug/m3	5.2	0.40	1.75		03/03/17 17:55	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 17:55	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/03/17 17:55	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 17:55	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/03/17 17:55	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 17:55	75-00-3	
Chloroform	**2.4**	ug/m3	0.87	0.33	1.75		03/03/17 17:55	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/03/17 17:55	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 17:55	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 17:55	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 17:55	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 17:55	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 17:55	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 17:55	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 17:55	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 17:55	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.8	0.84	1.75		03/03/17 17:55	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 17:55	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 17:55	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 17:55	75-35-4	
cis-1,2-Dichloroethene	**8.8**	ug/m3	1.4	0.43	1.75		03/03/17 17:55	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/03/17 17:55	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 17:55	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 17:55	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 17:55	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 17:55	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 17:55	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 17:55	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/03/17 17:55	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/03/17 17:55	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 17:55	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/03/17 17:55	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 17:55	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 17:55	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 17:55	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 17:55	108-87-2	
Methylene Chloride	**22.6**	ug/m3	6.2	0.95	1.75		03/03/17 17:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 17:55	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 17:55	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D
Report Date: 04-Mar-2017 07:54

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030317.b\06221.D
Lab Smp Id: 10379929003
Inj Date : 03-MAR-2017 17:55
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Meth Date : 04-Mar-2017 07:02 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 21
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.015	3.005	(0.538)	81928	11.0525	19.3(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.050	(0.546)	12529	0.27224	0.476(M)	
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.552	3.542	(0.634)	5838	1.25662	2.20	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.584	3.593	(0.640)	3879	0.17119	0.300	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.658	3.671	(0.653)	7955	0.22949	0.402	
17	Acrolein	56	3.671	3.680	(0.656)	1182	0.44541	0.779(Q)	
18	Acetone	43	3.722	3.719	(0.665)	33794	1.68454	2.95	
19	Isopropyl Alcohol	45	3.774	3.764	(0.674)	7818	0.38212	0.669	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.938	3.944	(0.703)	41685	1.59247	2.79	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D
Report Date: 04-Mar-2017 07:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	4.002	(0.712)	51811	3.65913	6.40	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.487	(0.801)	407036	10.1186	10.1	
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.814)	1677	0.35138	0.615	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.700	4.725	(0.839)	15695	1.24190	2.17(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.816	4.841	(0.860)	7218	0.27556	0.482	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.609	(1.000)	1264374	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.986	(1.067)	124362	5.85402	10.2	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.072	(1.262)	1080933	9.55183	9.55	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.982	(0.924)	88782	3.03247	5.31	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	843136	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D
Report Date: 04-Mar-2017 07:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	459251	9.88795	9.89	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.166	14.156	(1.640)	2551	0.41307	0.723(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D
Report Date: 04-Mar-2017 07:54

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06221.D
Lab Smp Id: 10379929003
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Misc Info: 27830

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

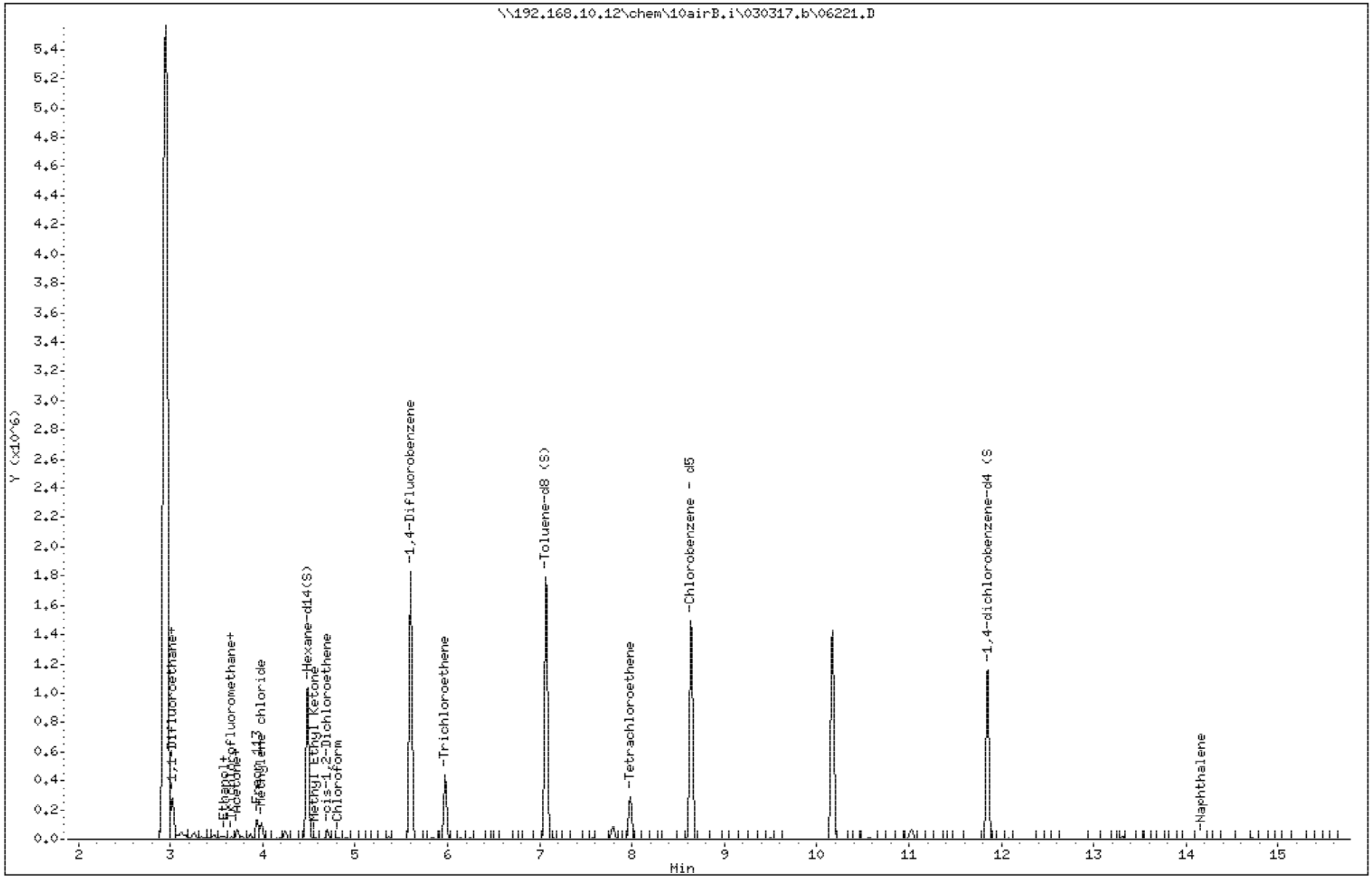
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1264374	-10.59
67 Chlorobenzene - d	951026	570616	1331436	843136	-11.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D
Date : 03-MAR-2017 17:55
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

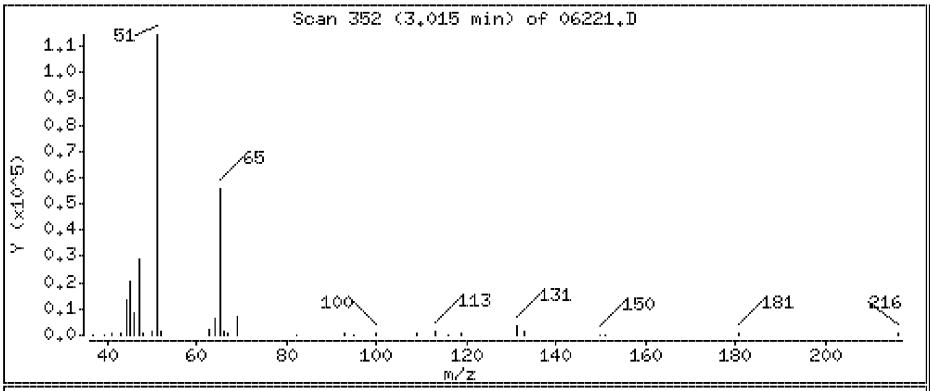
Operator: MJL

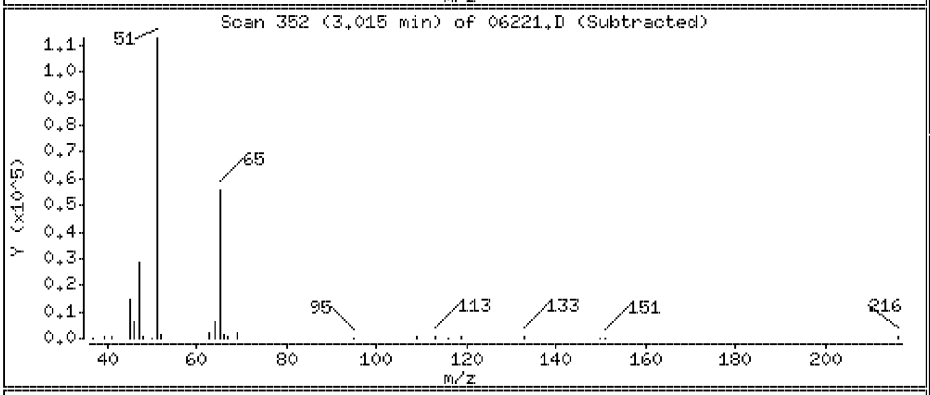
Column phase: J&W DB-5

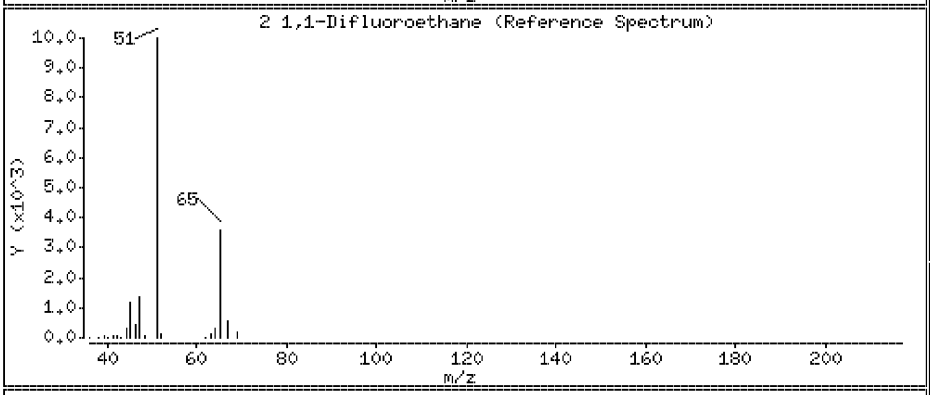
Column diameter: 0.32

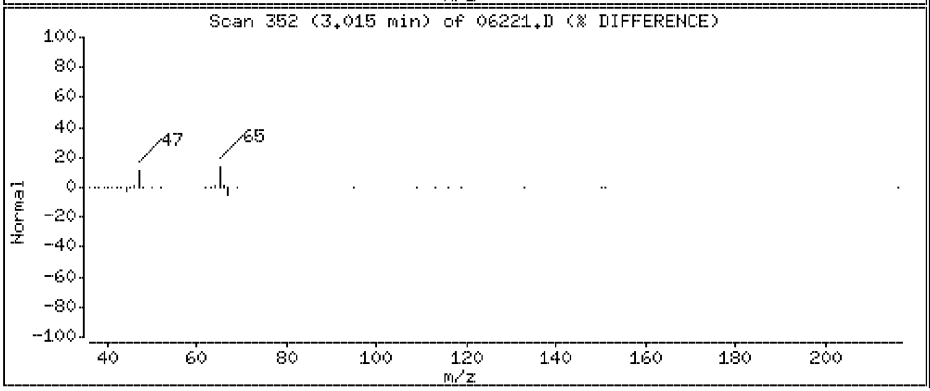
2 1,1-Difluoroethane

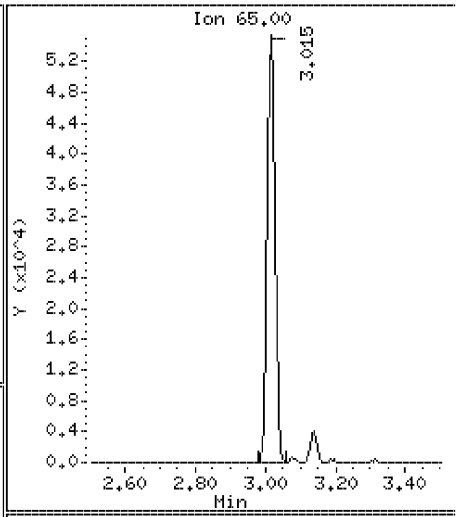
Concentration: 19.3 ppbv

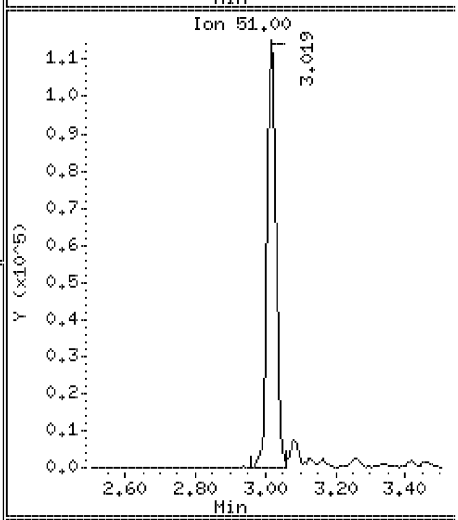


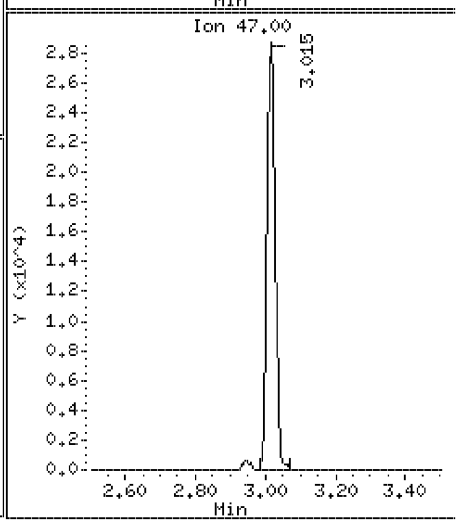












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

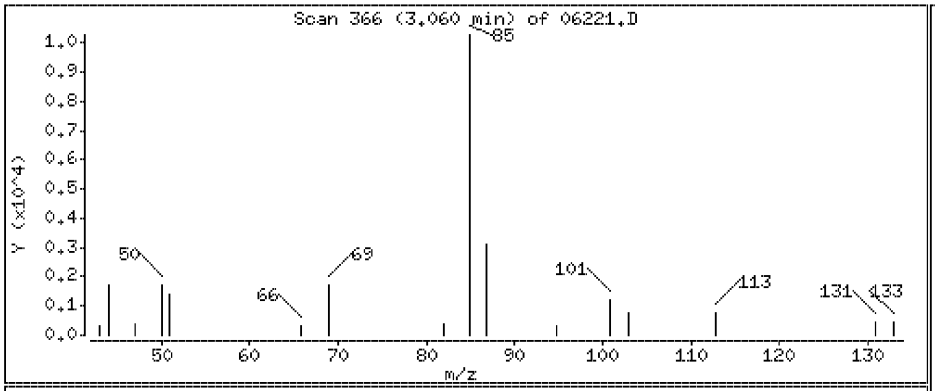
Operator: MJL

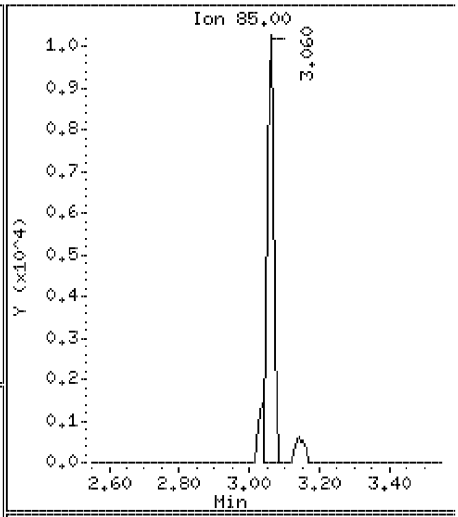
Column phase: J&W DB-5

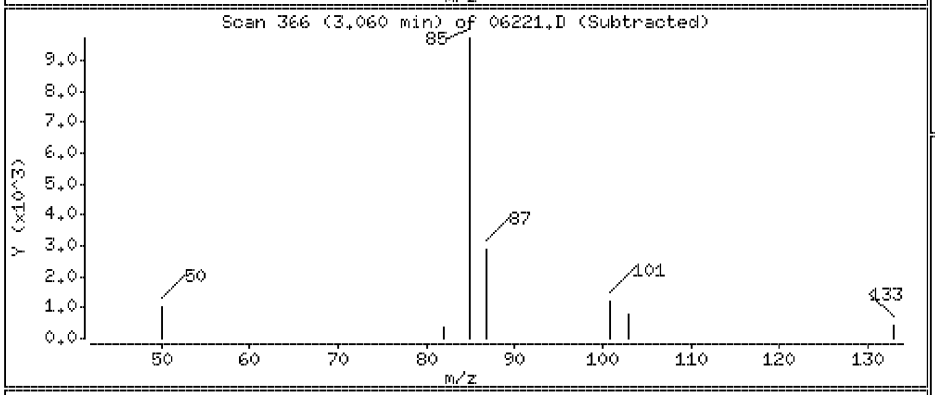
Column diameter: 0.32

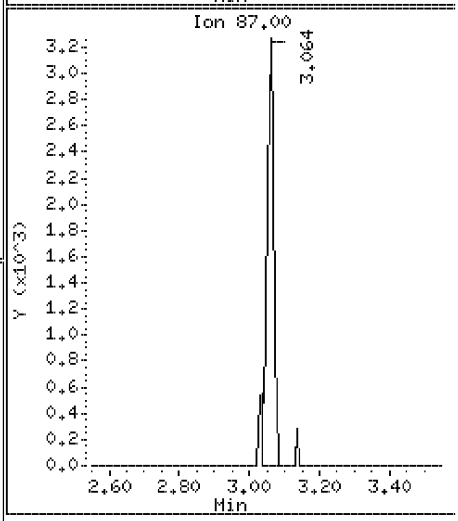
5 Dichlorodifluoromethane

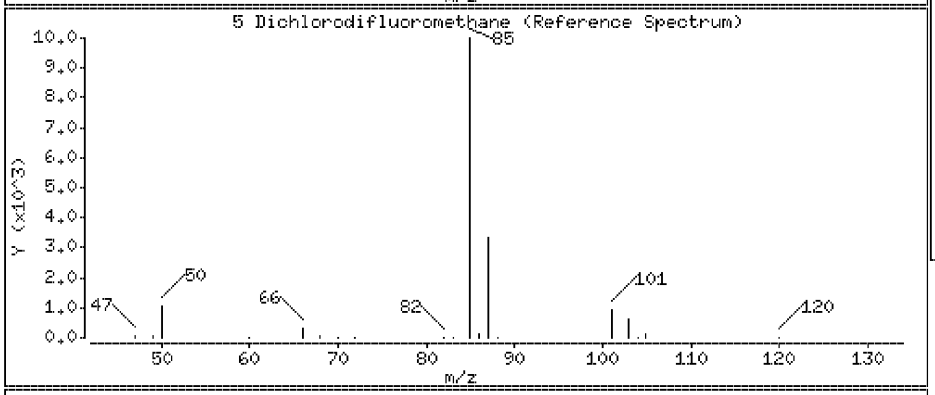
Concentration: 0.476 ppbv

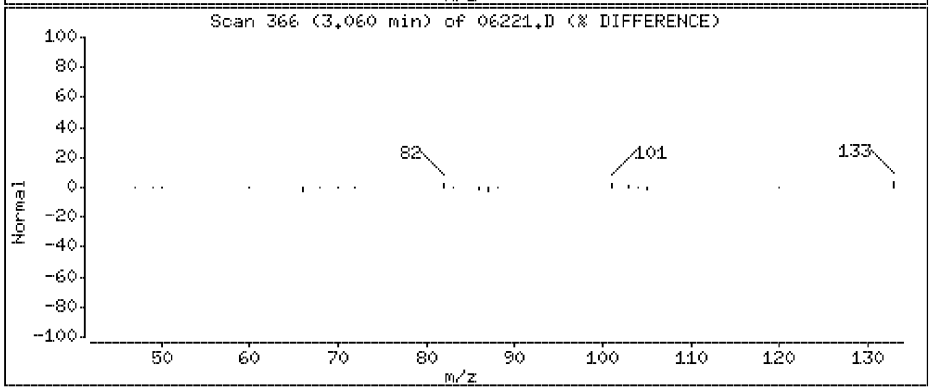












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

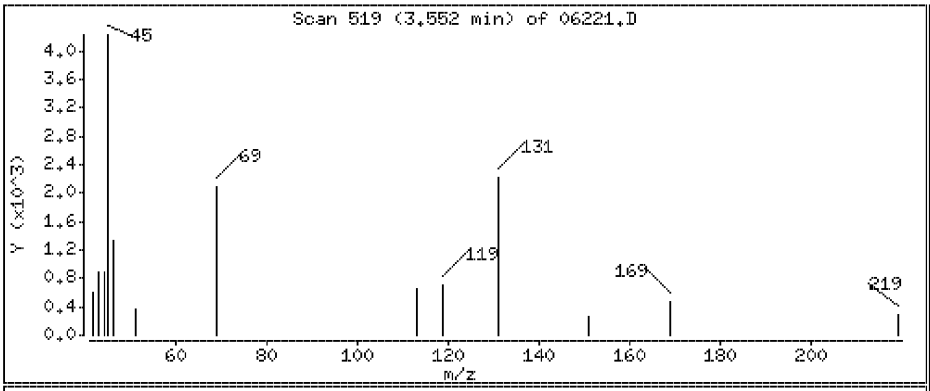
Operator: MJL

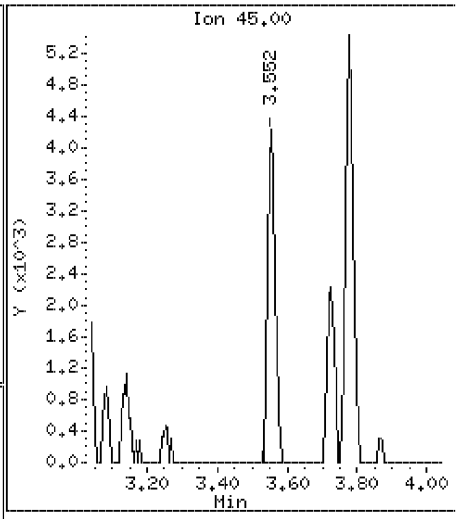
Column phase: J&W DB-5

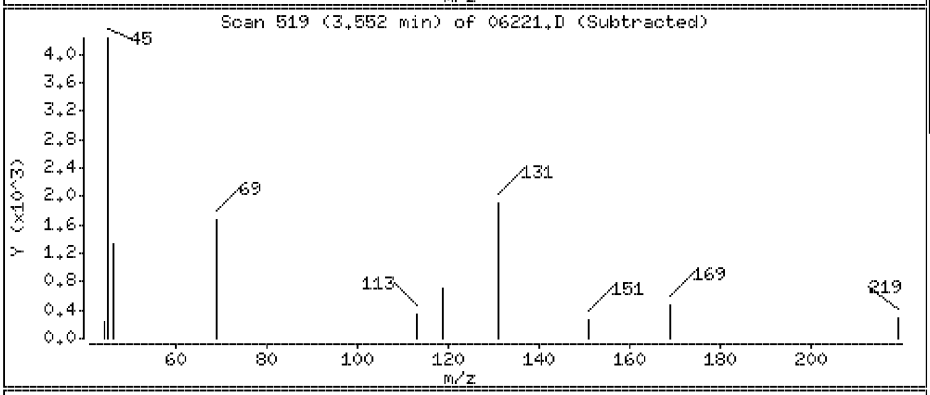
Column diameter: 0.32

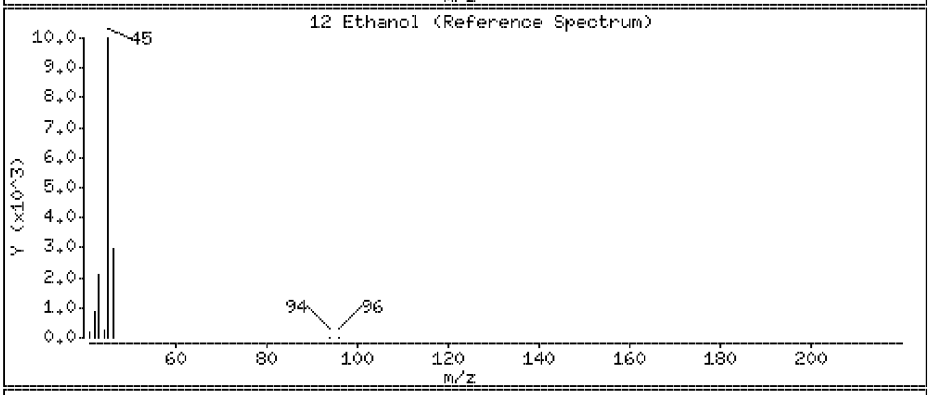
12 Ethanol

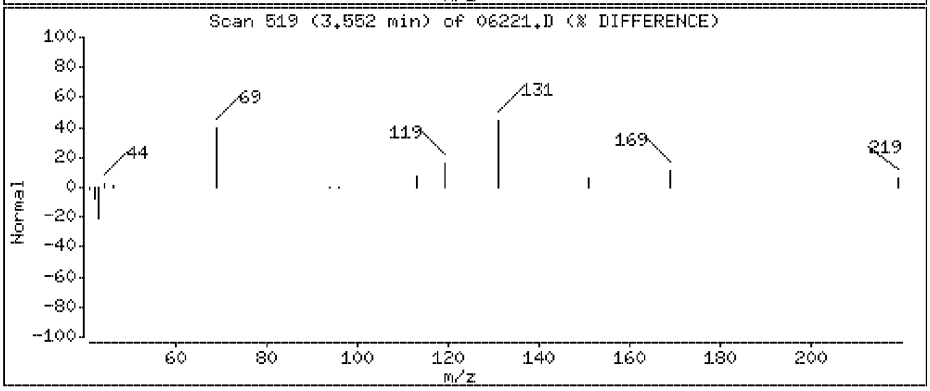
Concentration: 2.20 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

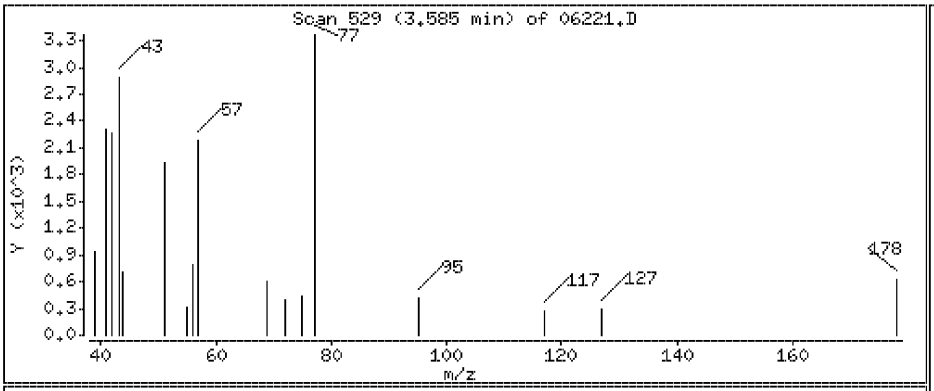
Operator: MJL

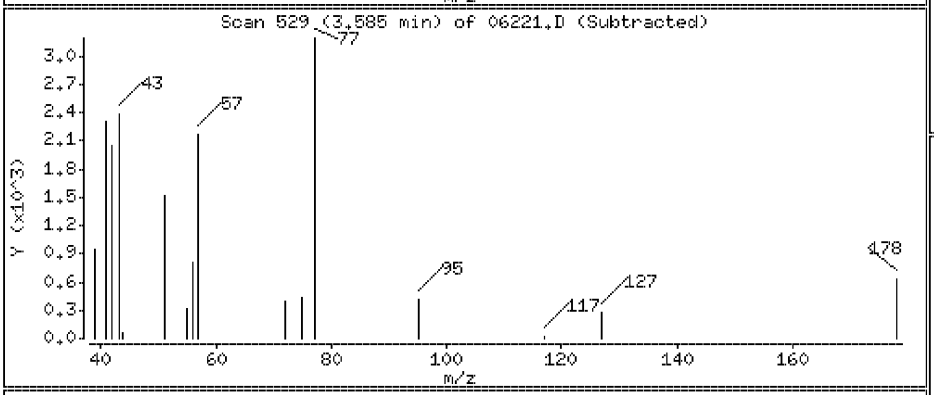
Column phase: J&W DB-5

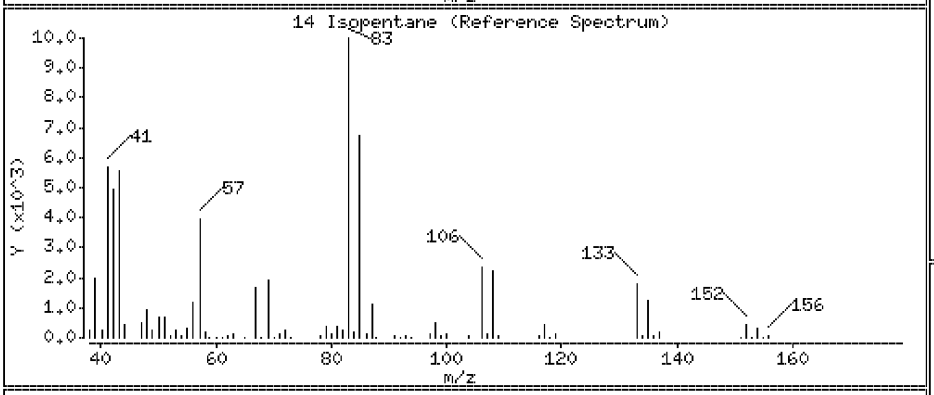
Column diameter: 0.32

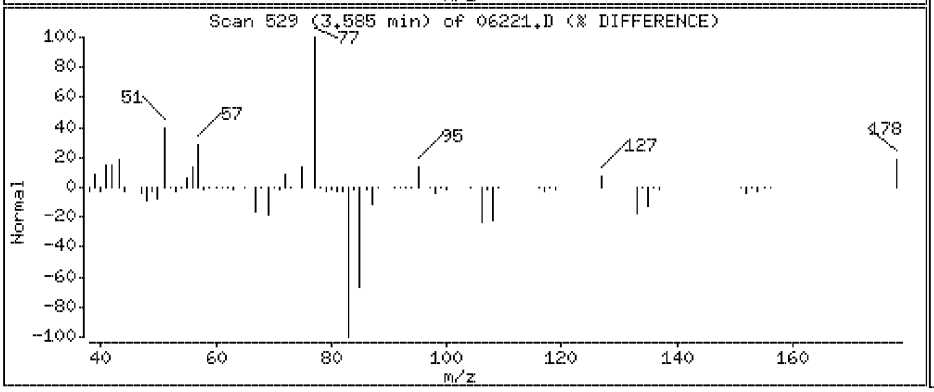
14 Isopentane

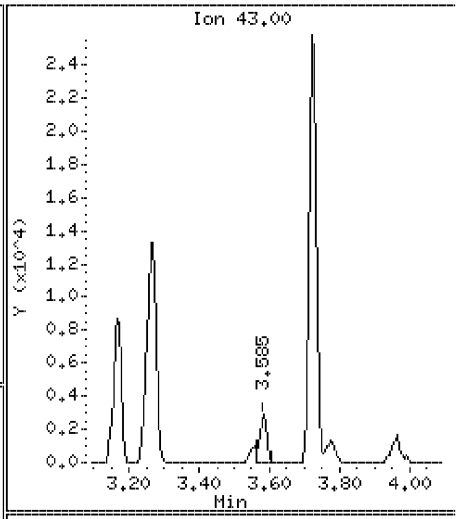
Concentration: 0.300 ppbv

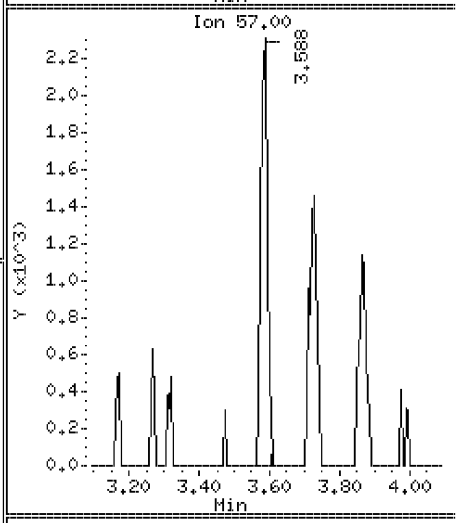


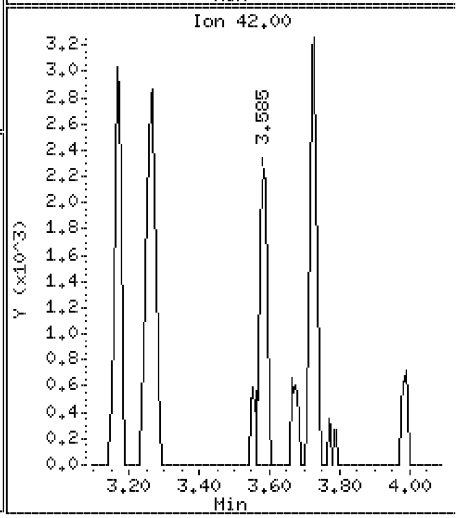












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

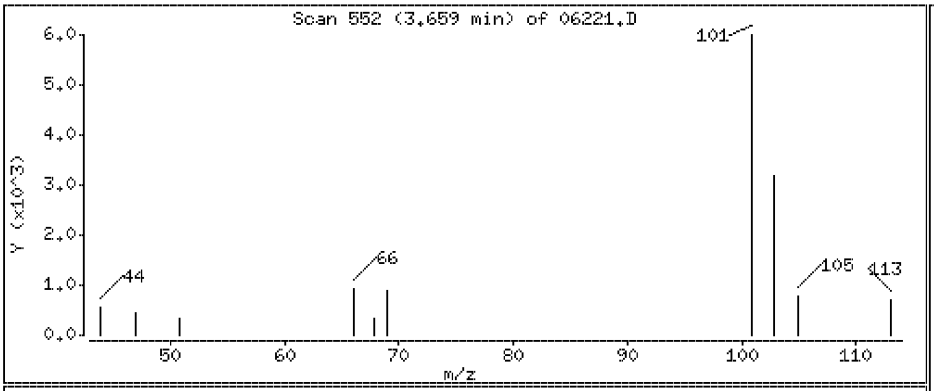
Operator: MJL

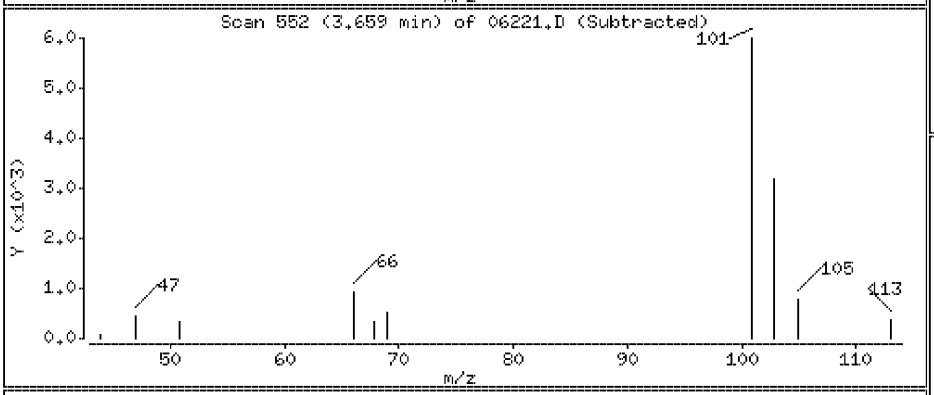
Column phase: J&W DB-5

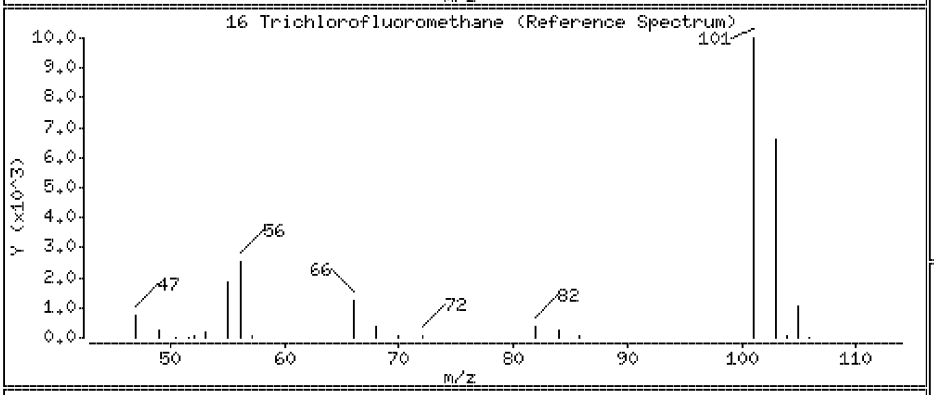
Column diameter: 0.32

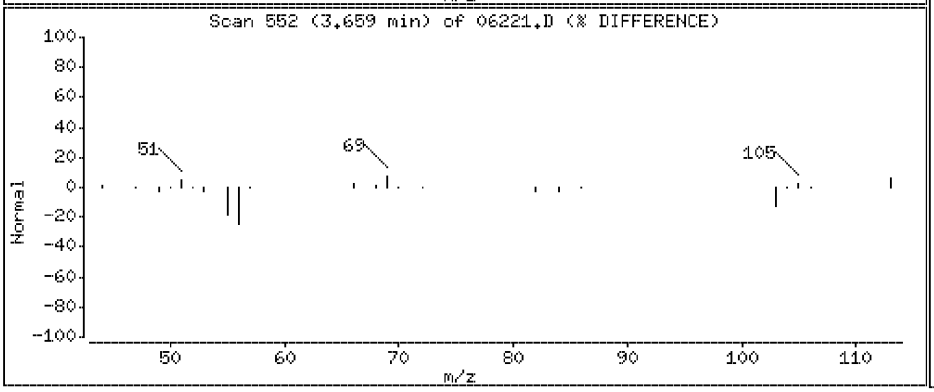
16 Trichlorofluoromethane

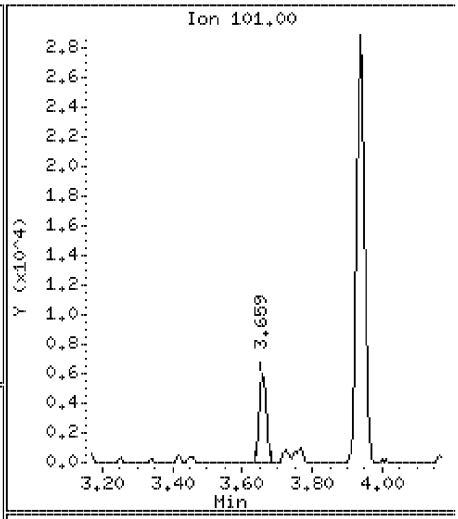
Concentration: 0.402 ppbv

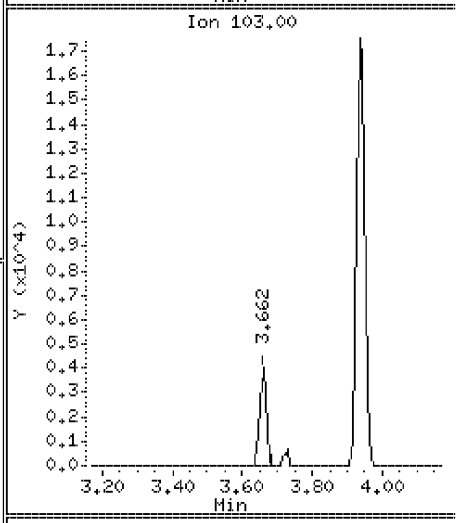


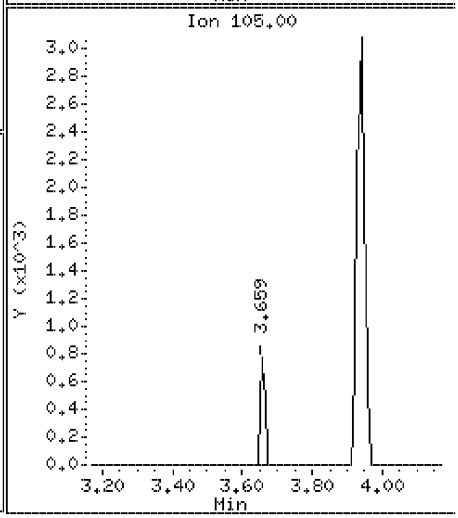












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

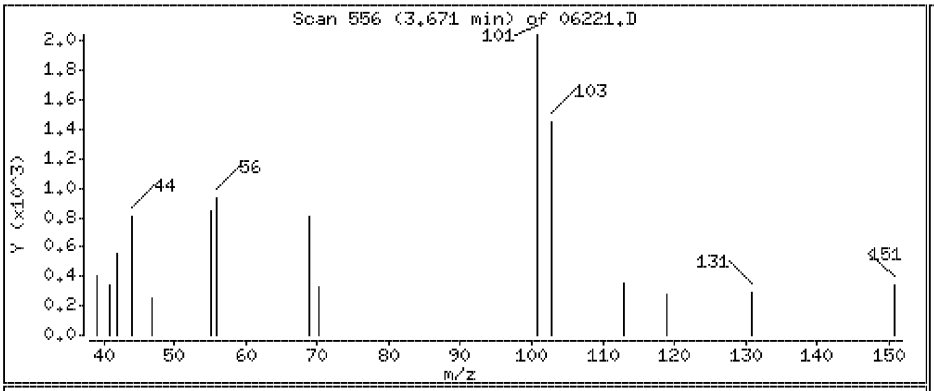
Operator: MJL

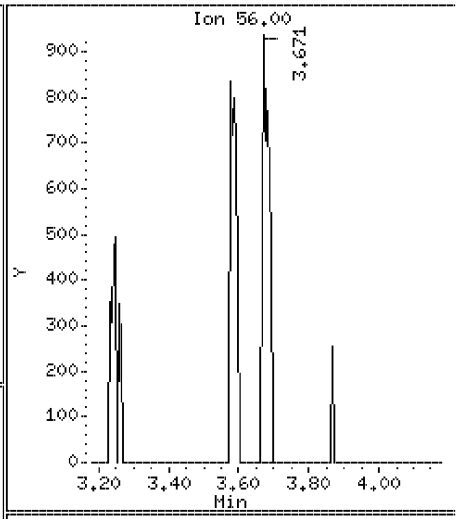
Column phase: J&W DB-5

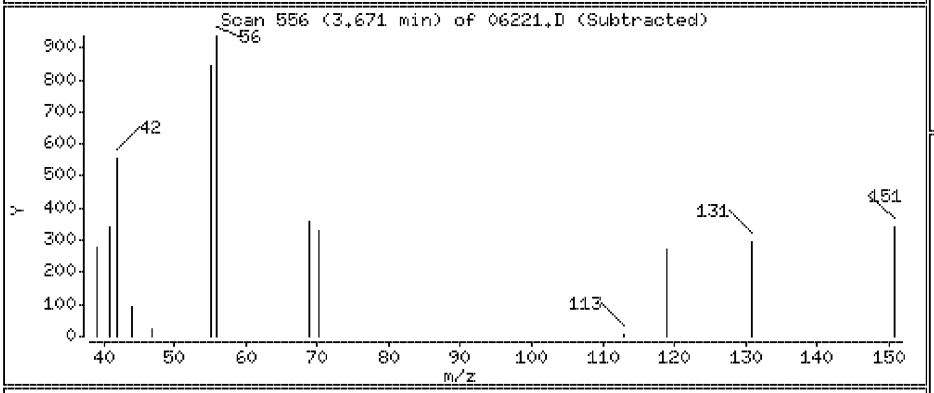
Column diameter: 0.32

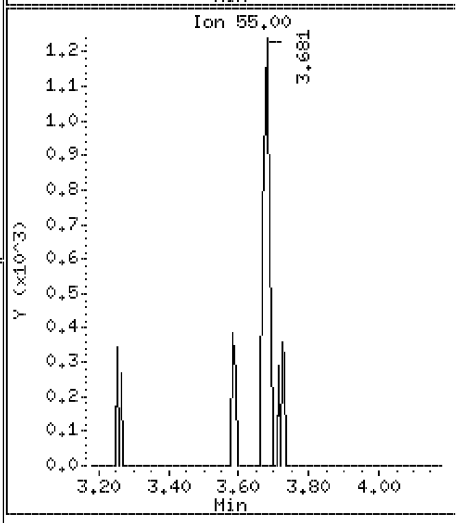
17 Acrolein

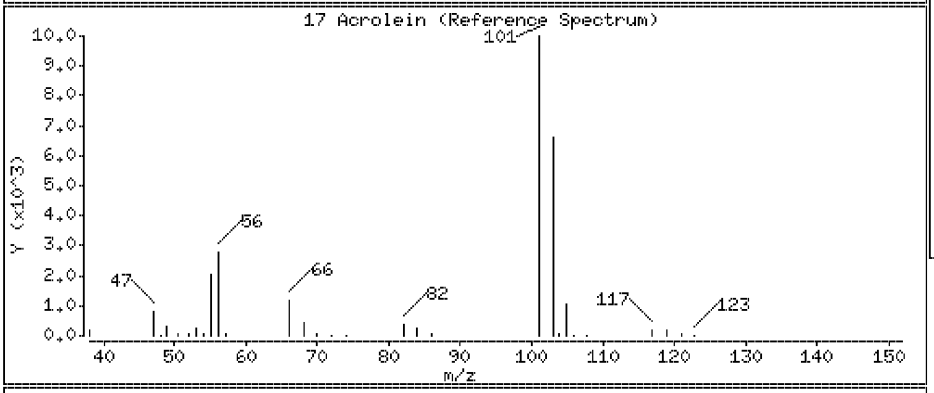
Concentration: 0.779 ppbv

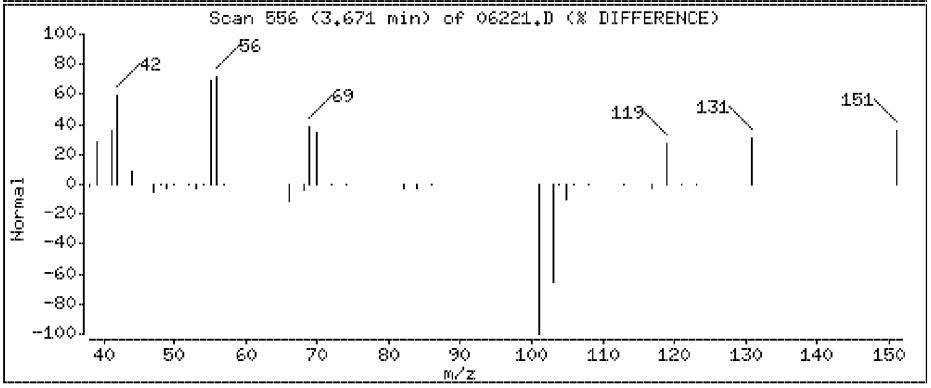












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

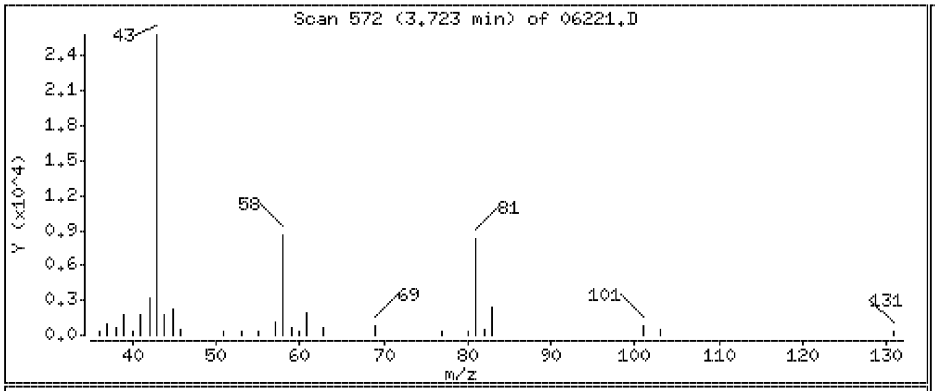
Operator: MJL

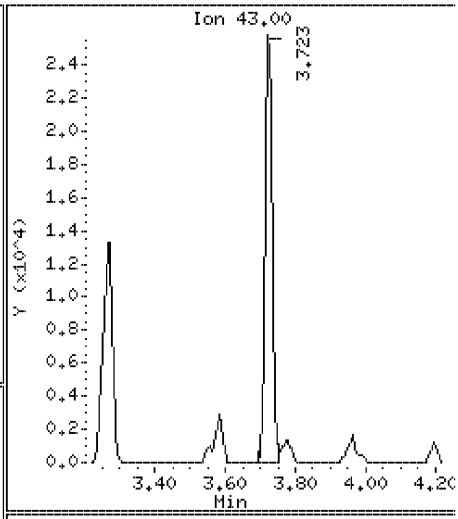
Column phase: J&W DB-5

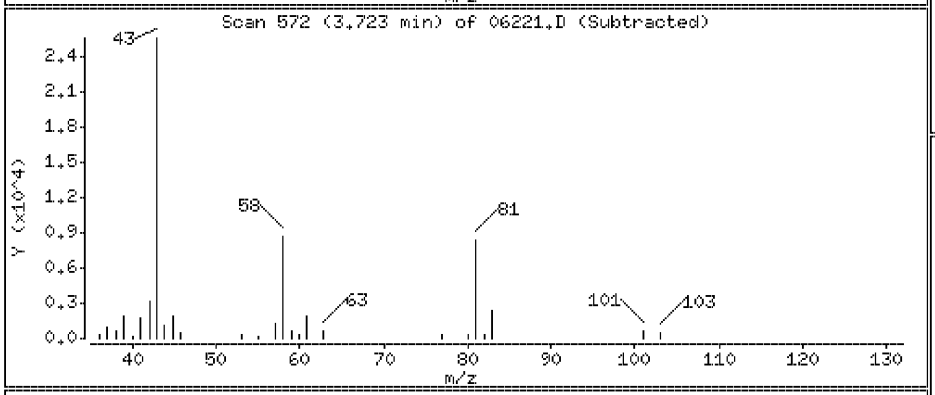
Column diameter: 0.32

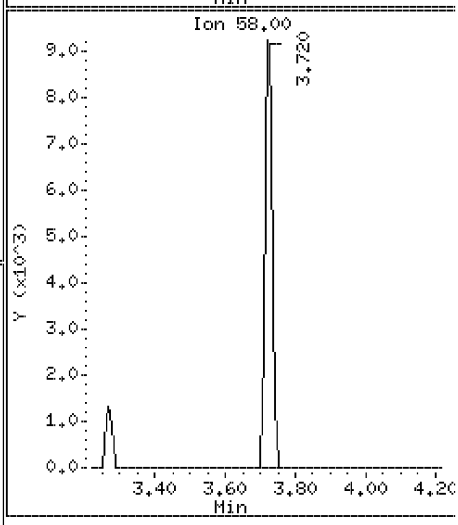
18 Acetone

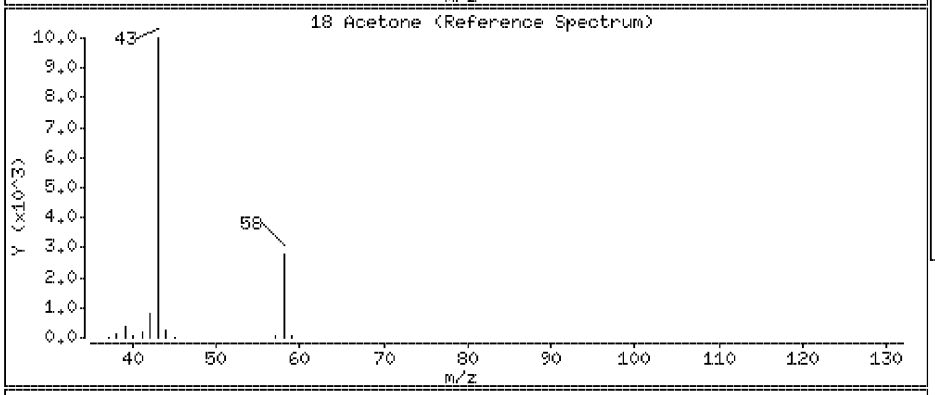
Concentration: 2.95 ppbv

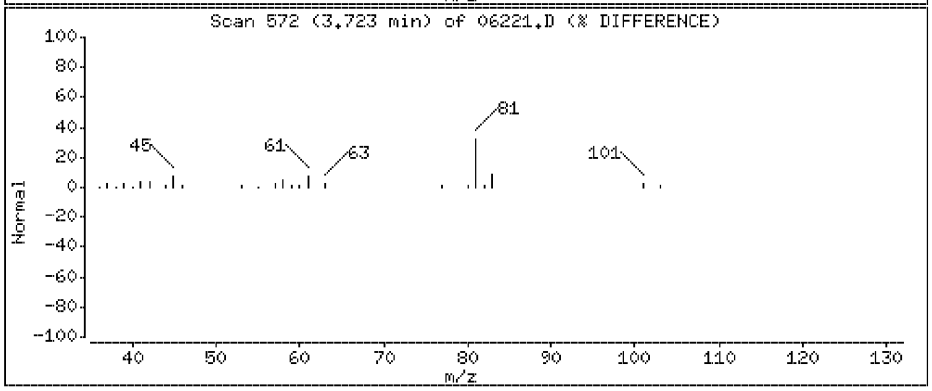












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

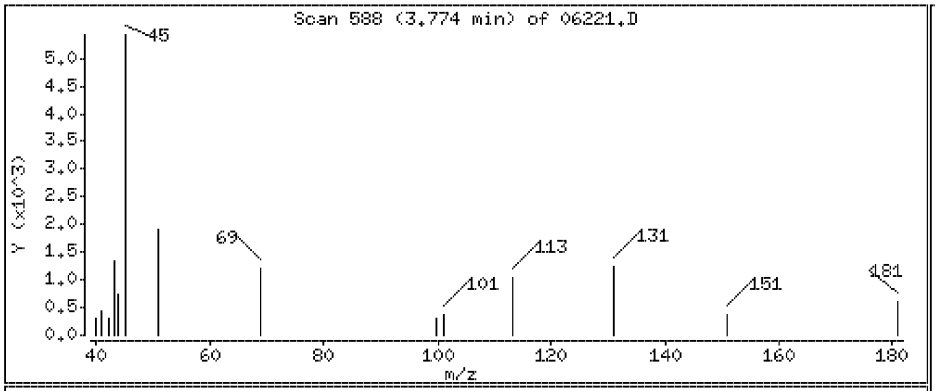
Operator: MJL

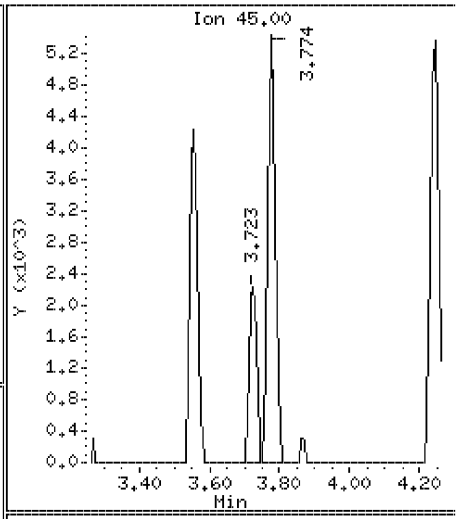
Column phase: J&W DB-5

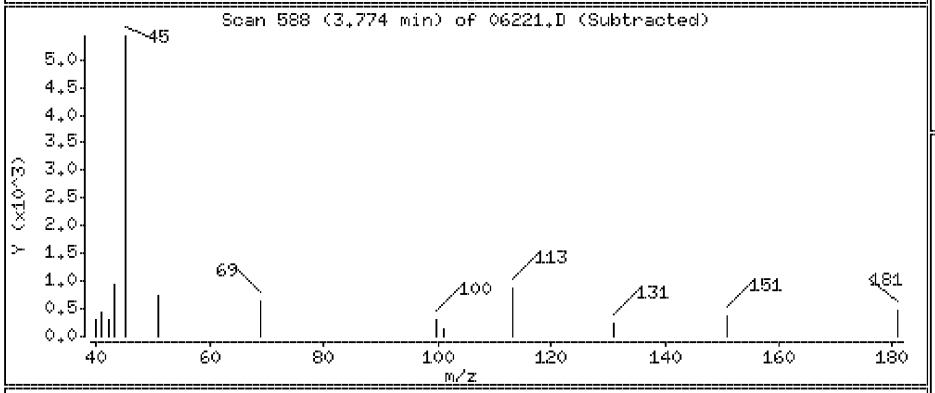
Column diameter: 0.32

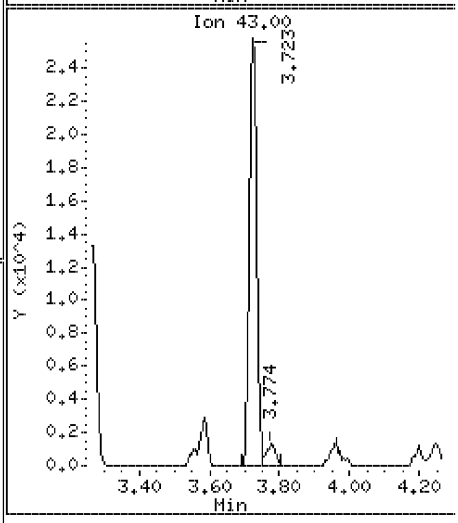
19 Isopropyl Alcohol

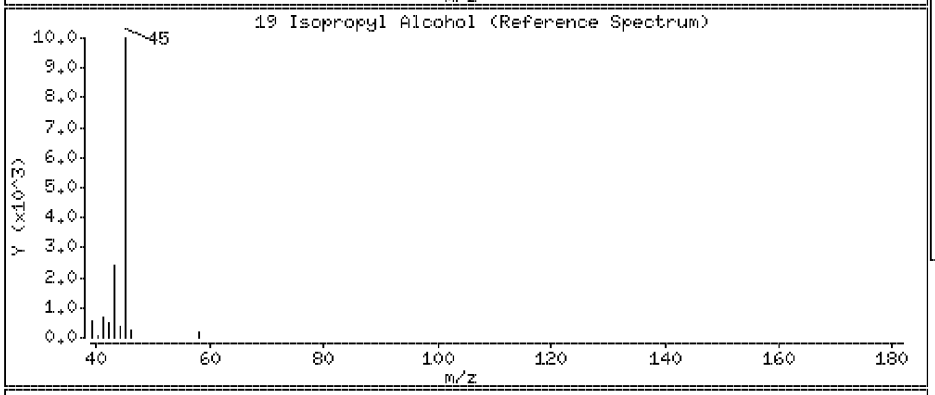
Concentration: 0.669 ppbv

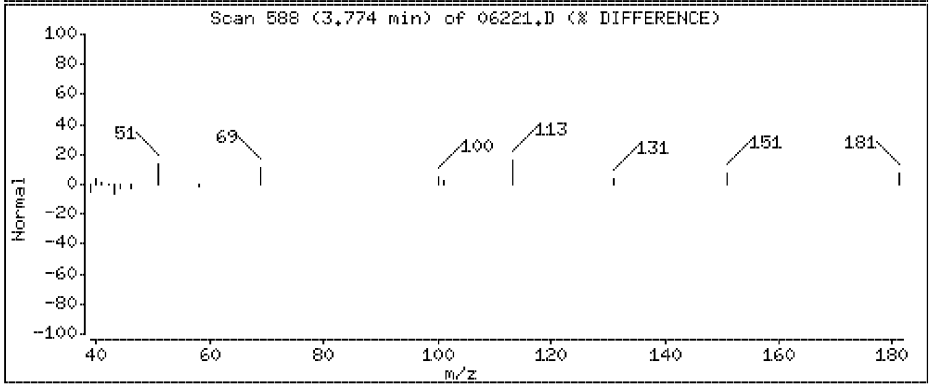












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

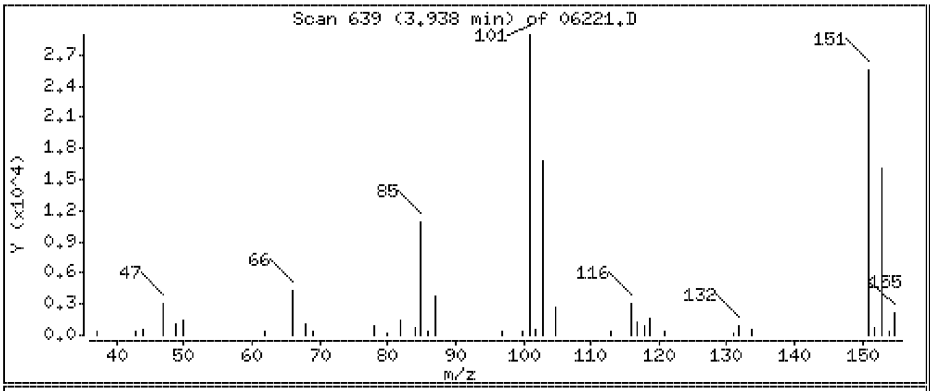
Operator: MJL

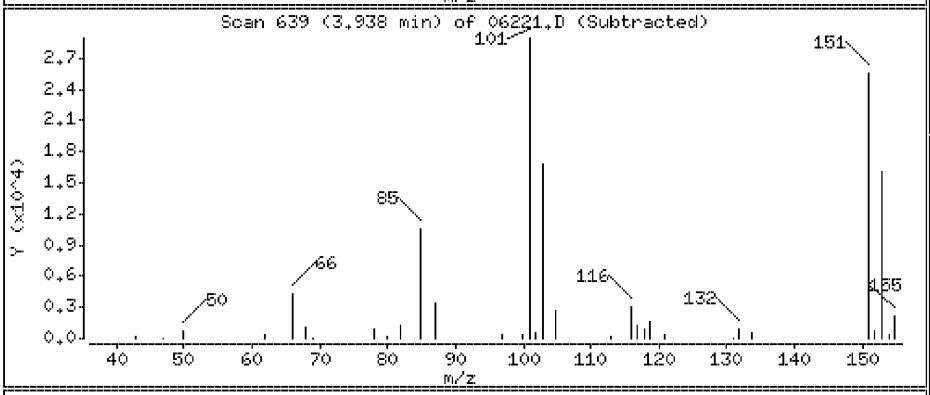
Column phase: J&W DB-5

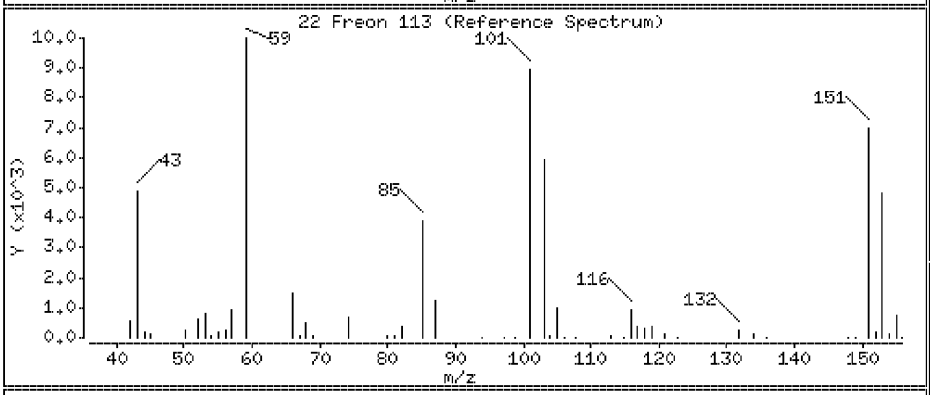
Column diameter: 0.32

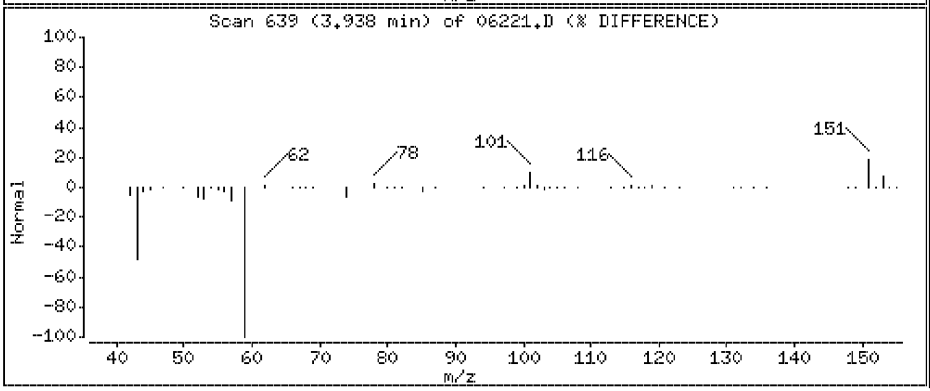
22 Freon 113

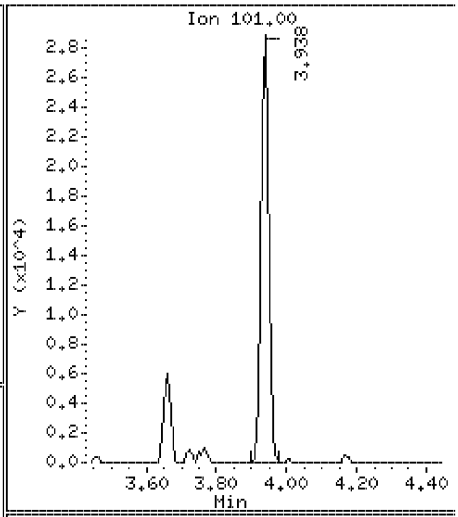
Concentration: 2.79 ppbv

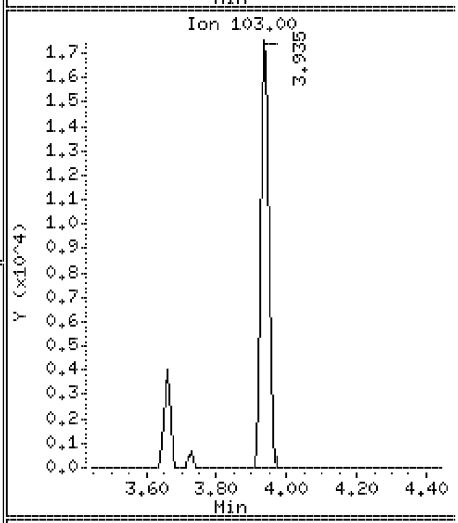


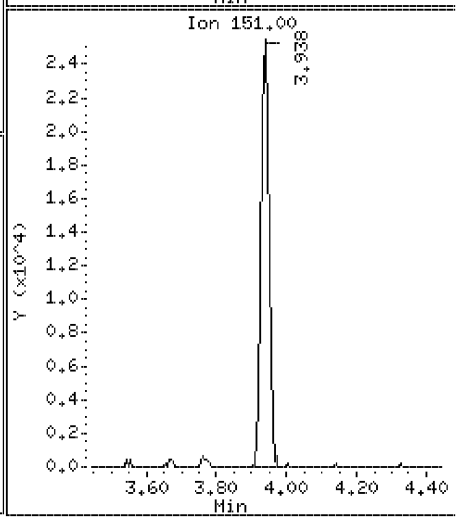












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

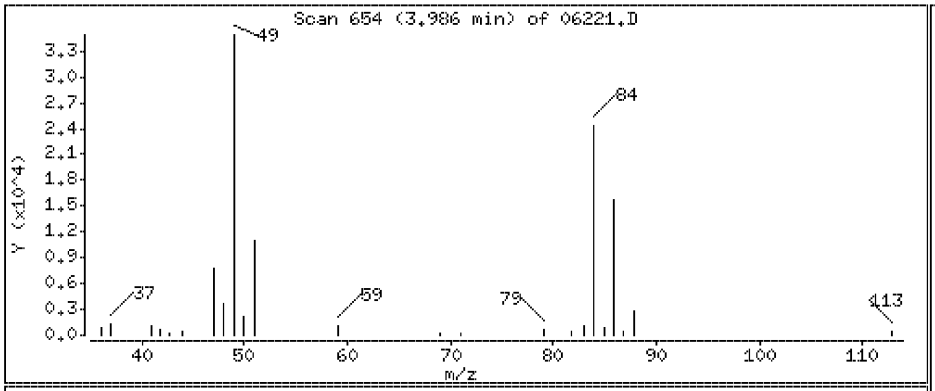
Operator: MJL

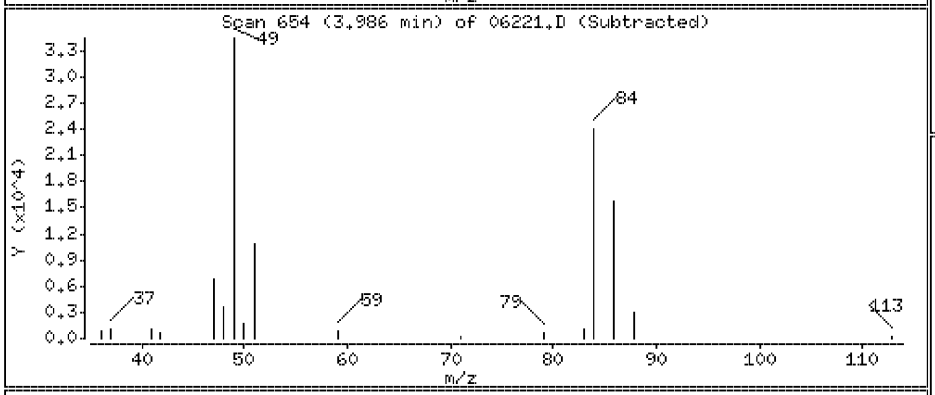
Column phase: J&W DB-5

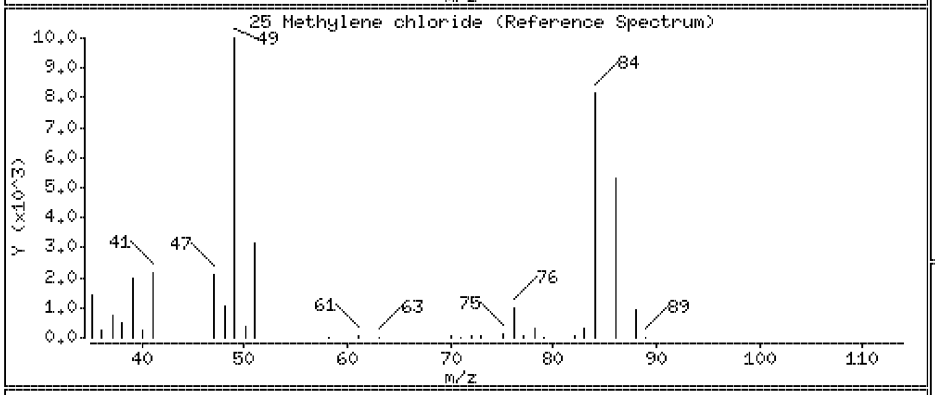
Column diameter: 0.32

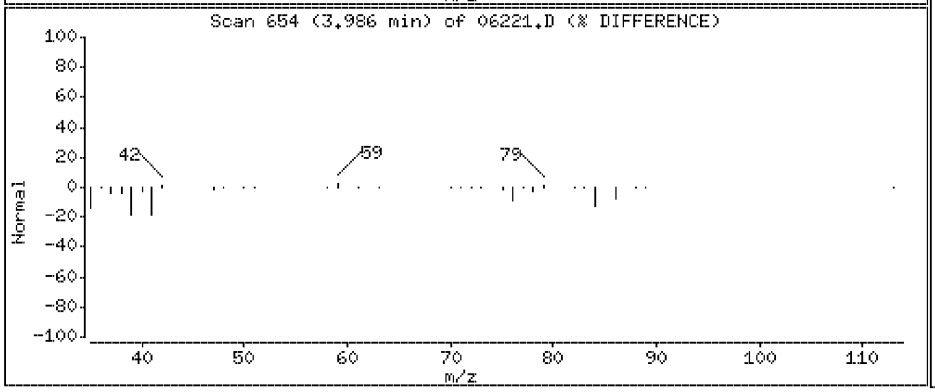
25 Methylene chloride

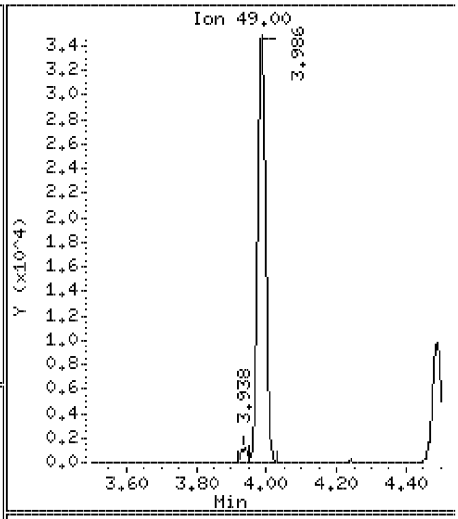
Concentration: 6.40 ppbv

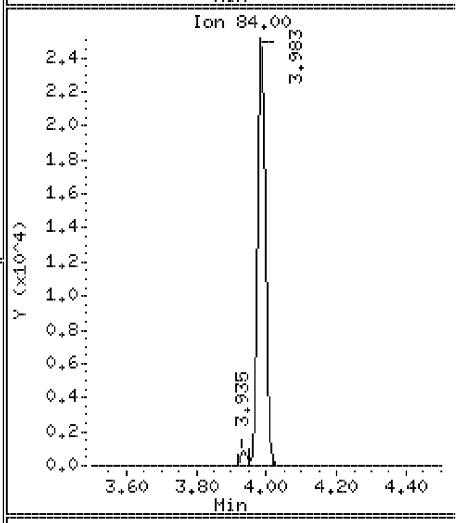


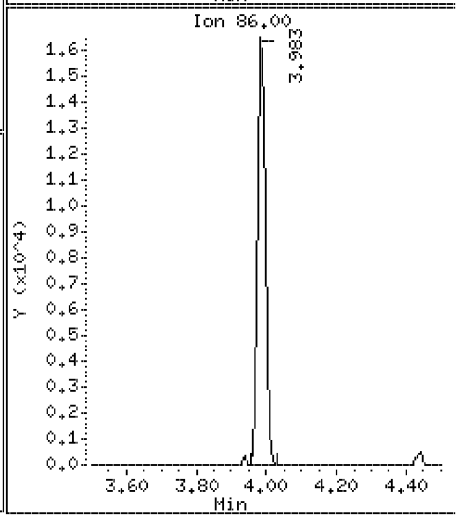












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

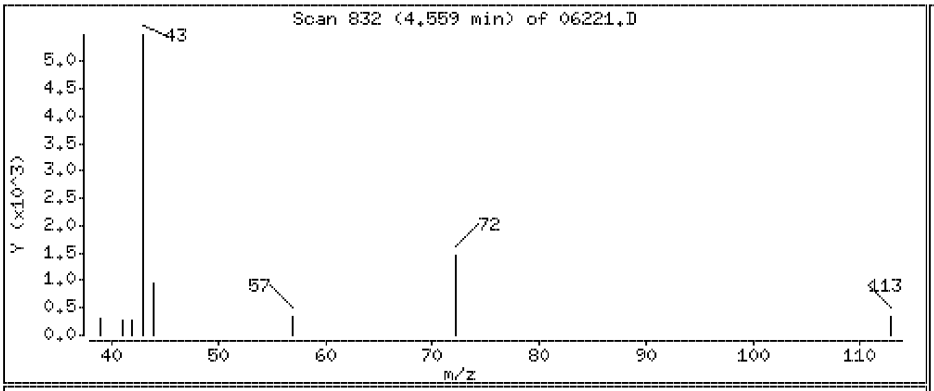
Operator: MJL

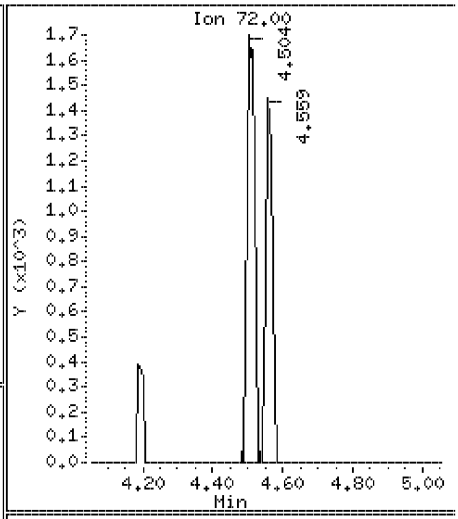
Column phase: J&W DB-5

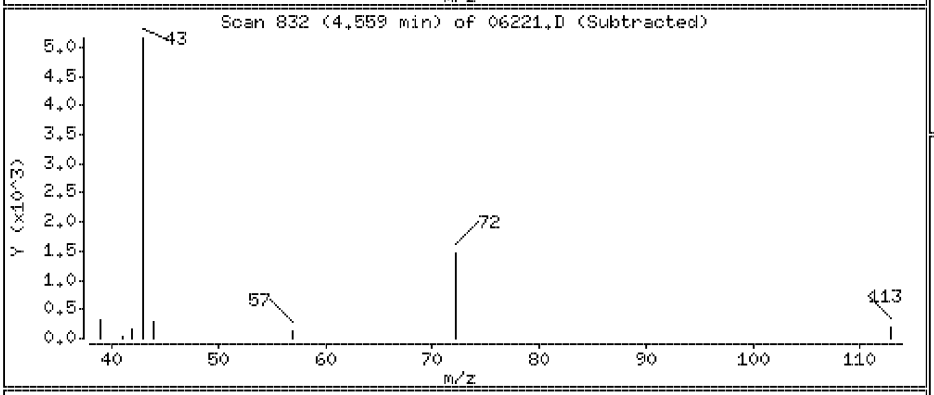
Column diameter: 0.32

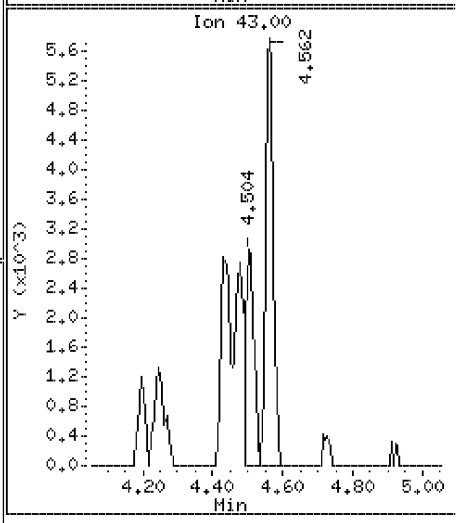
33 Methyl Ethyl Ketone

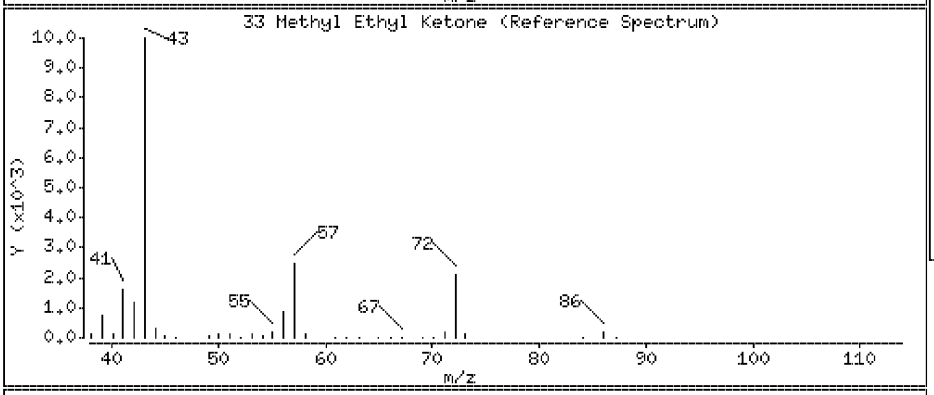
Concentration: 0.615 ppbv

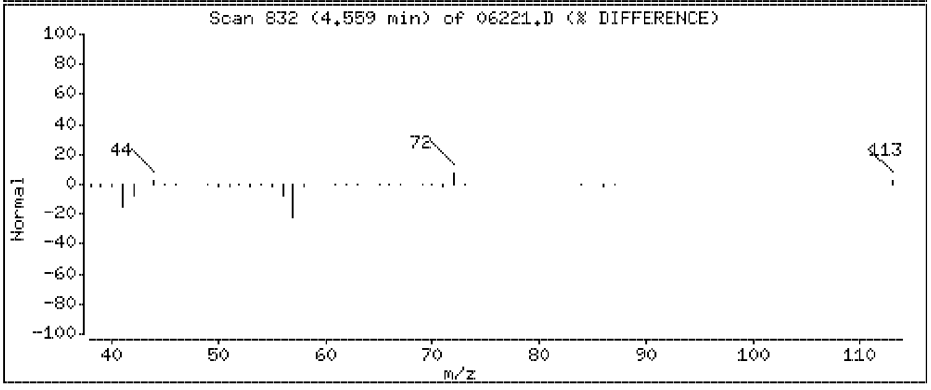












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

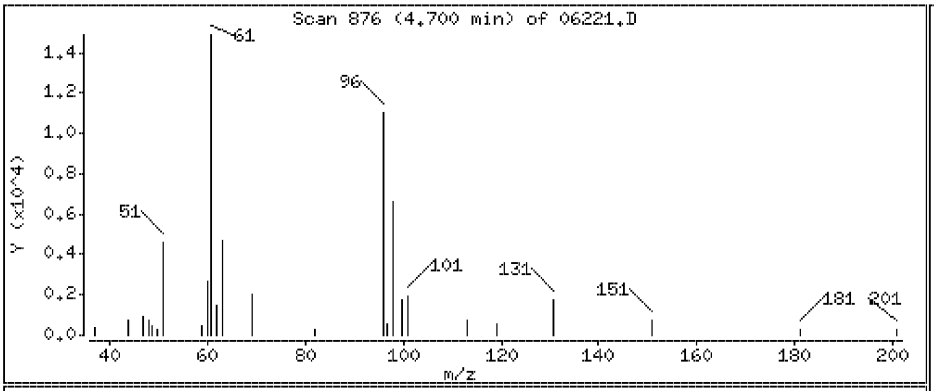
Operator: MJL

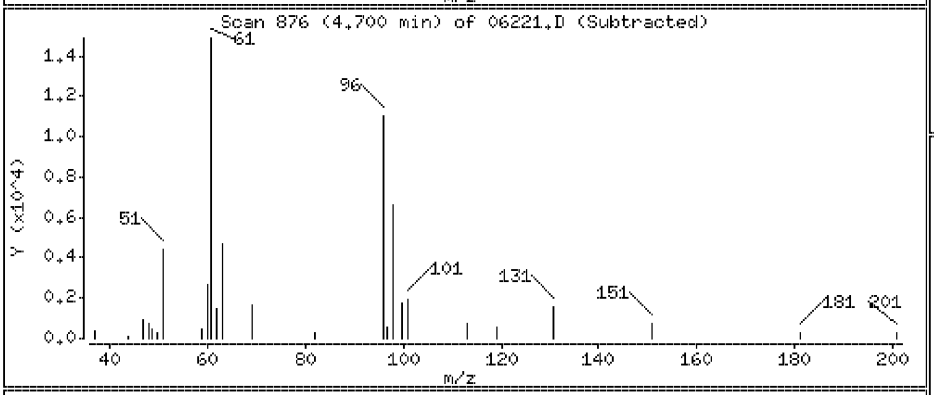
Column phase: J&W DB-5

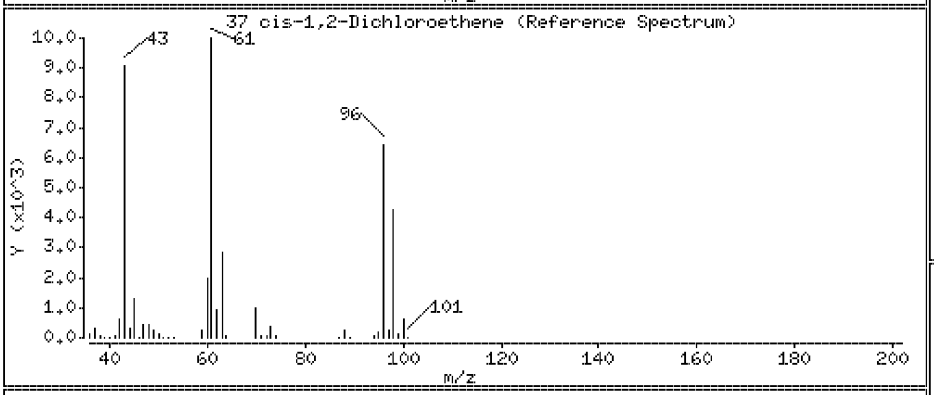
Column diameter: 0.32

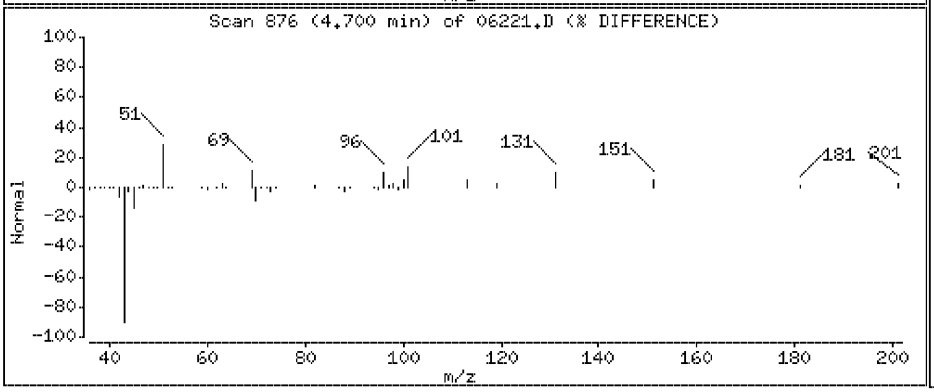
37 cis-1,2-Dichloroethene

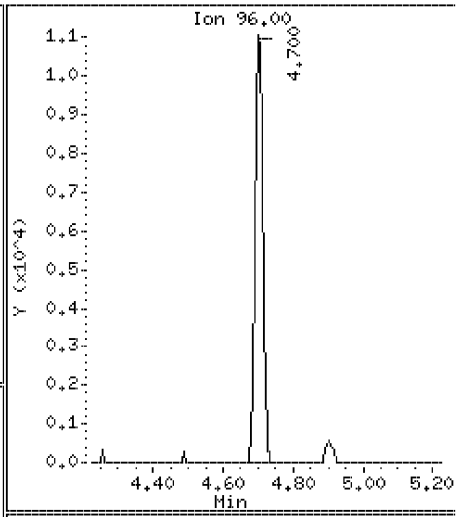
Concentration: 2.17 ppbv

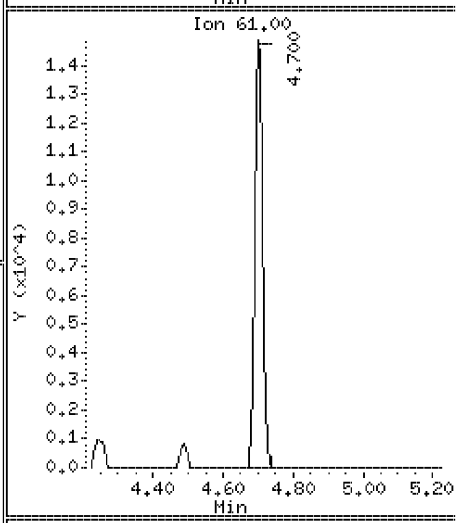


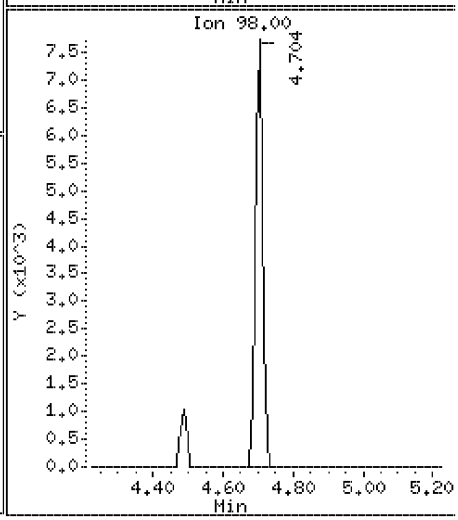












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

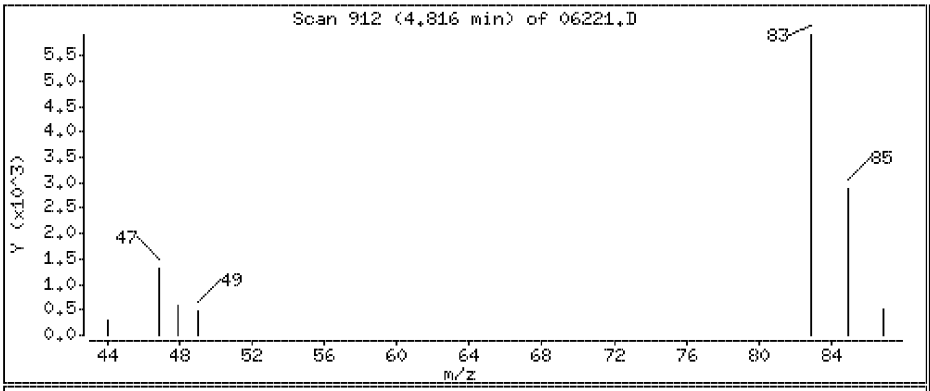
Operator: MJL

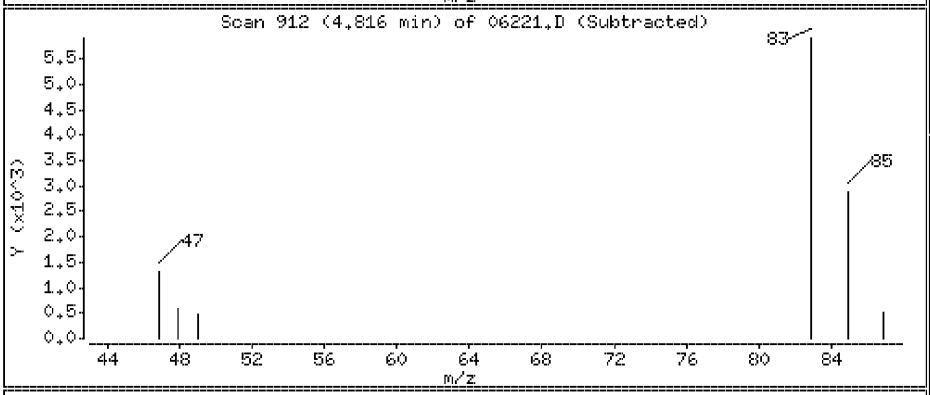
Column phase: J&W DB-5

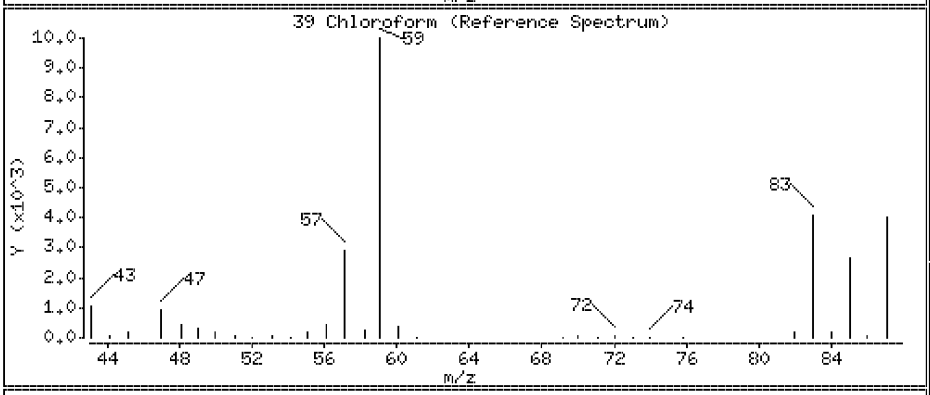
Column diameter: 0.32

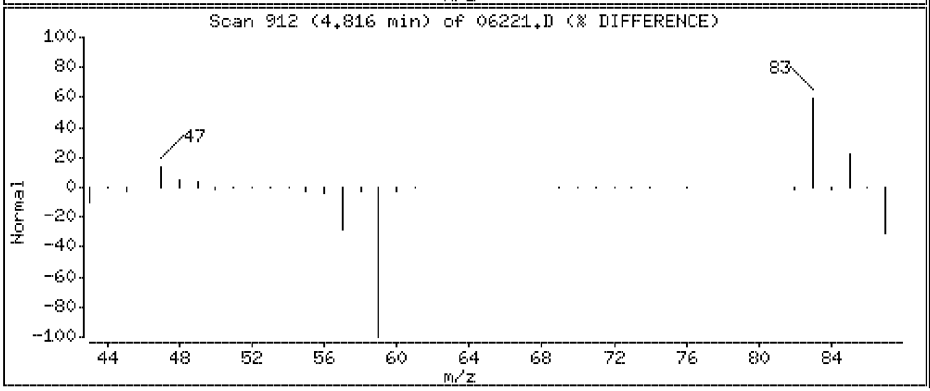
39 Chloroform

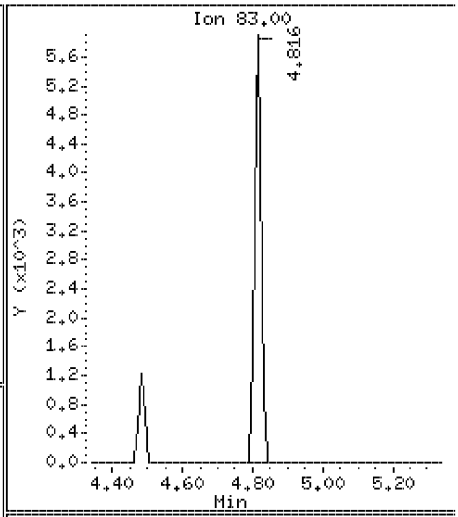
Concentration: 0.482 ppbv

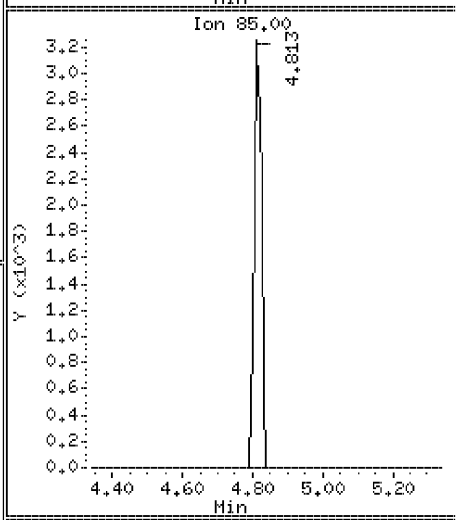


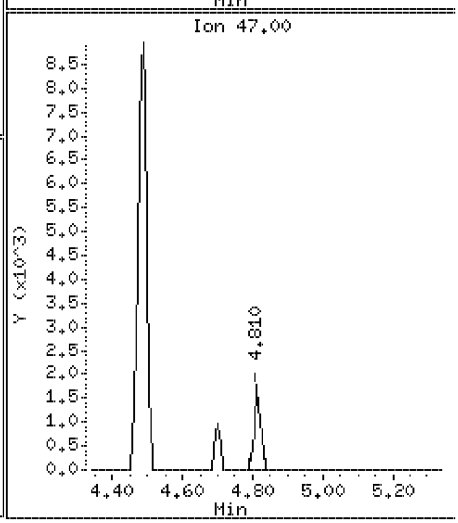












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

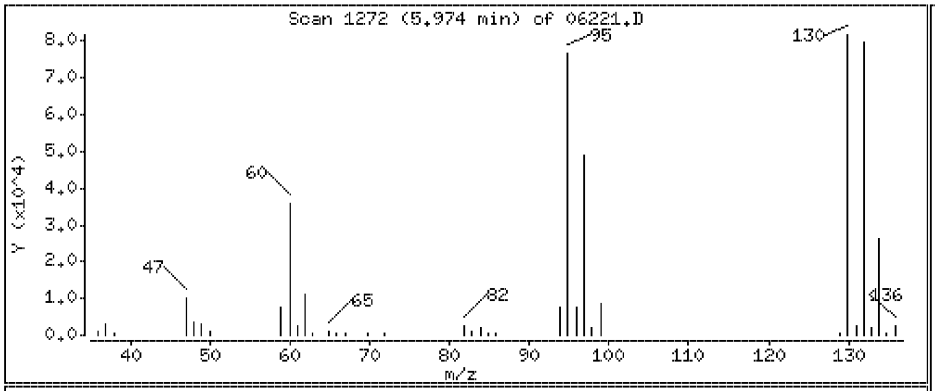
Operator: MJL

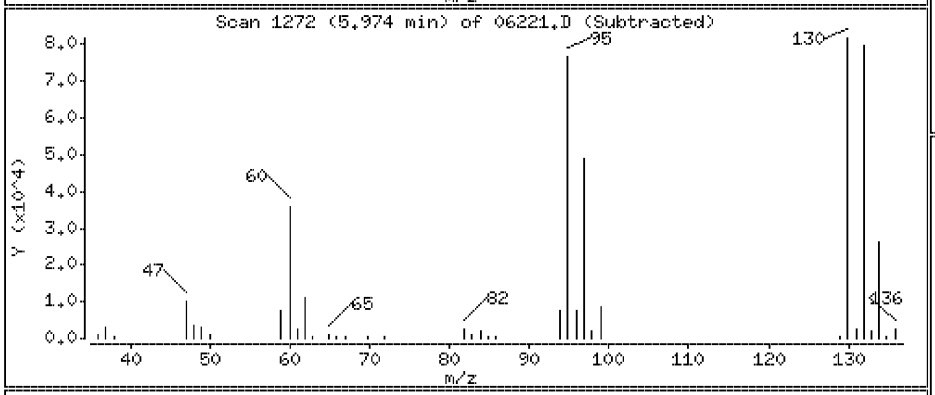
Column phase: J&W DB-5

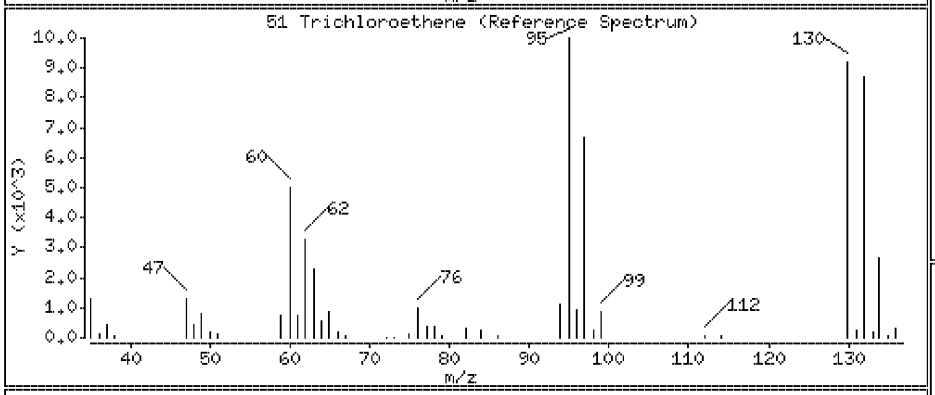
Column diameter: 0.32

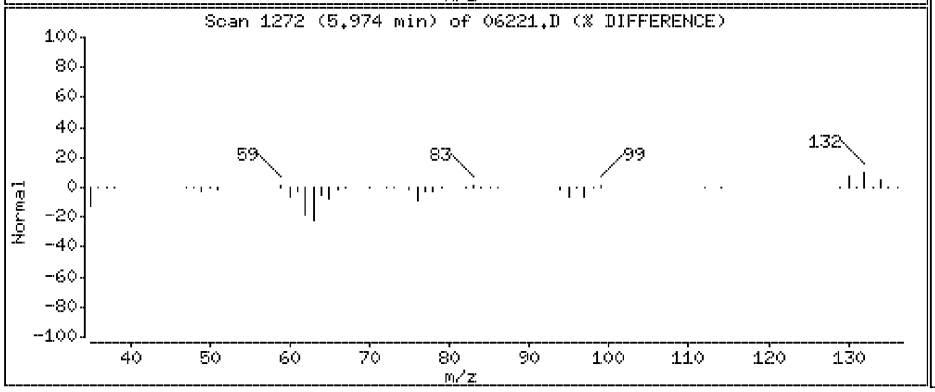
51 Trichloroethene

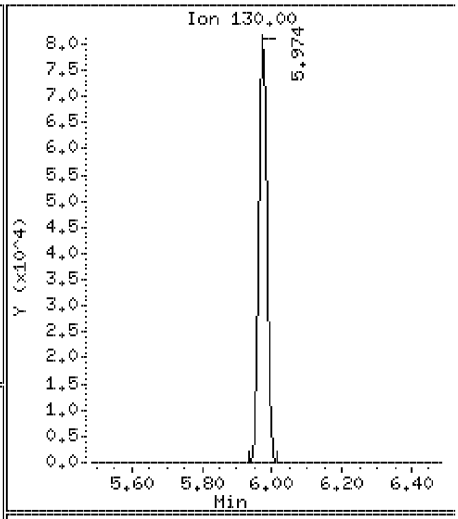
Concentration: 10.2 ppbv

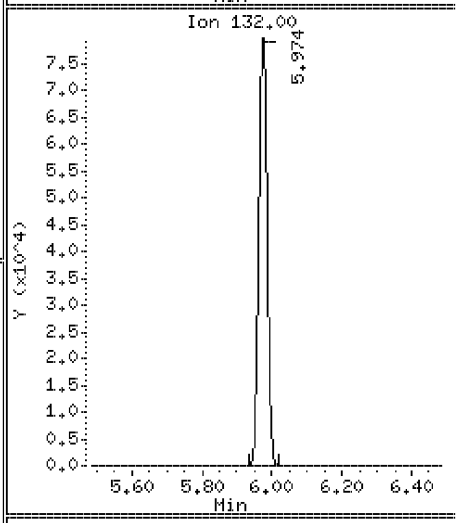


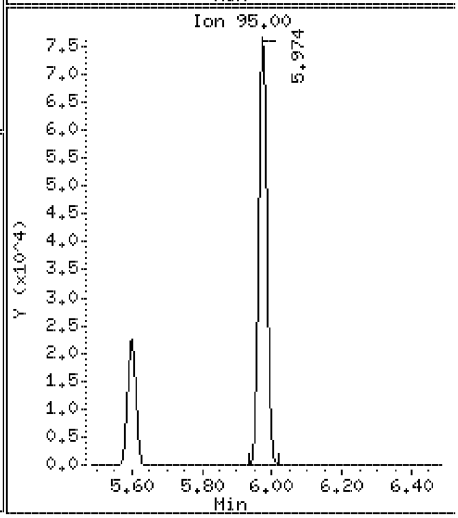












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

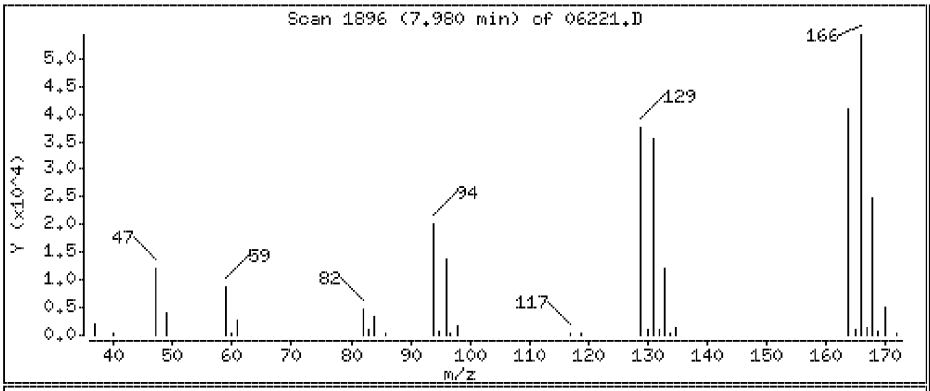
Operator: MJL

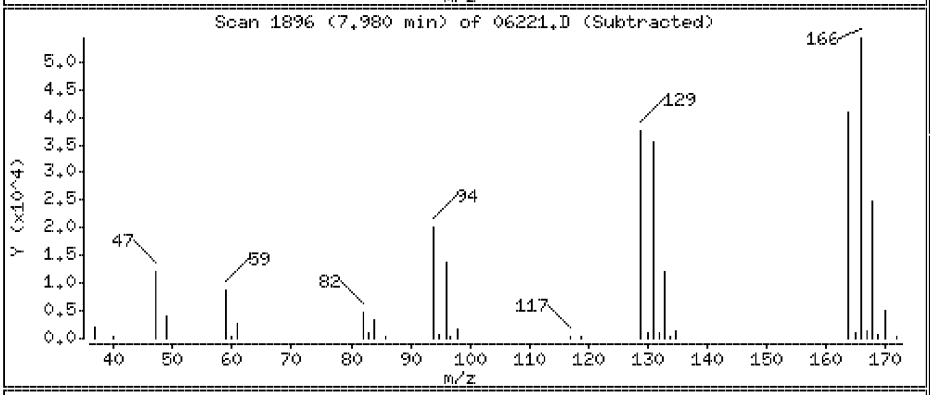
Column phase: J&W DB-5

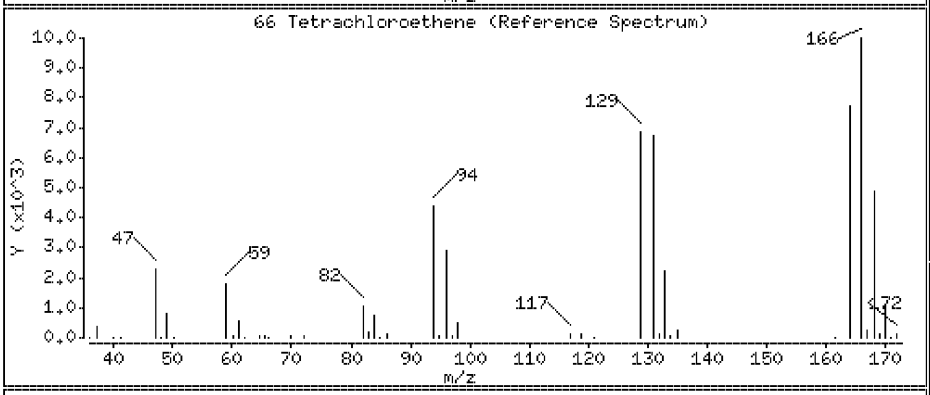
Column diameter: 0.32

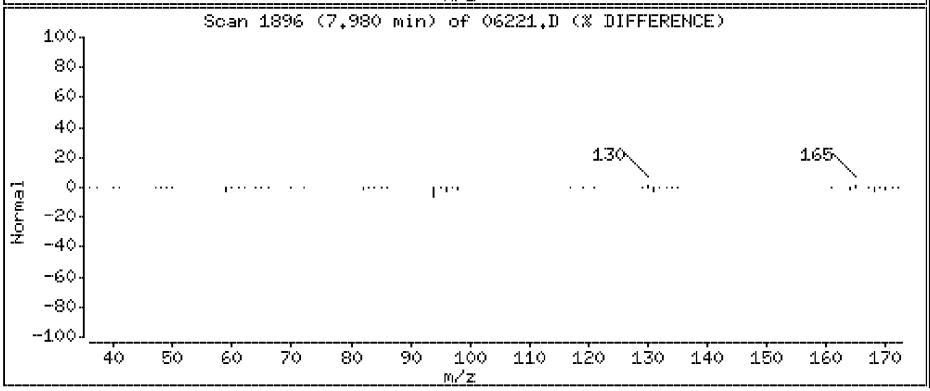
66 Tetrachloroethene

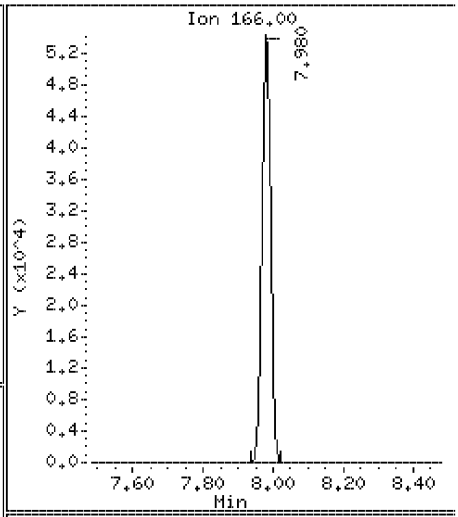
Concentration: 5.31 ppbv

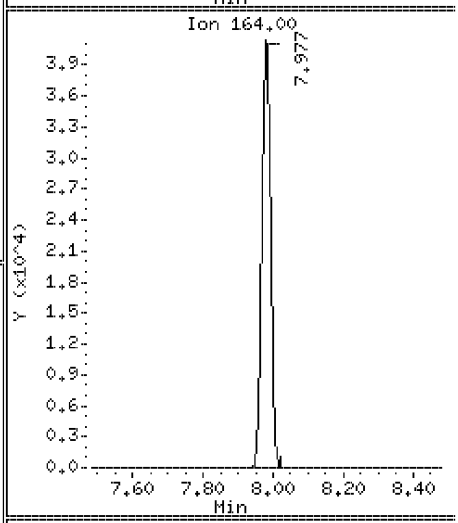


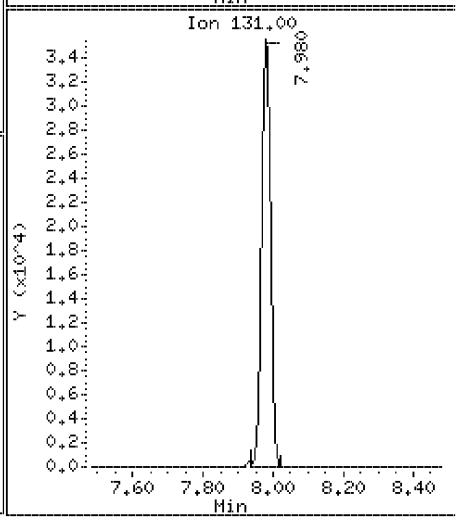












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06221.D

Date : 03-MAR-2017 17:55

Client ID:

Instrument: 10airB.i

Sample Info:

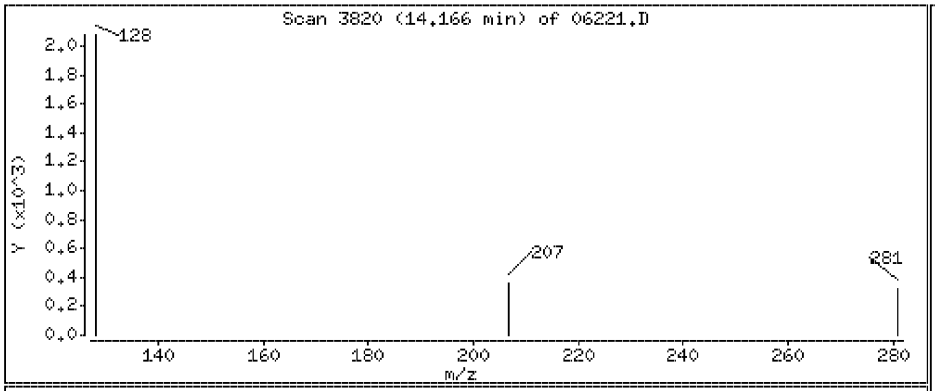
Operator: MJL

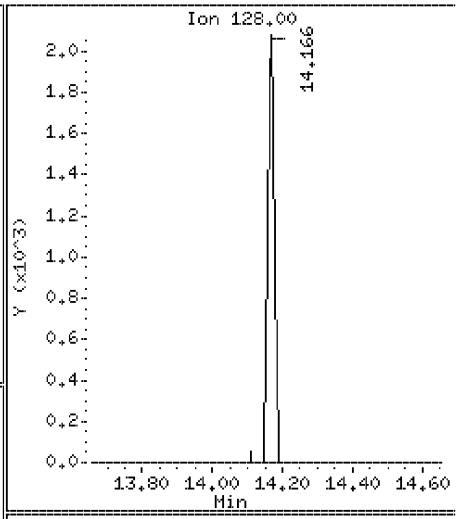
Column phase: J&W DB-5

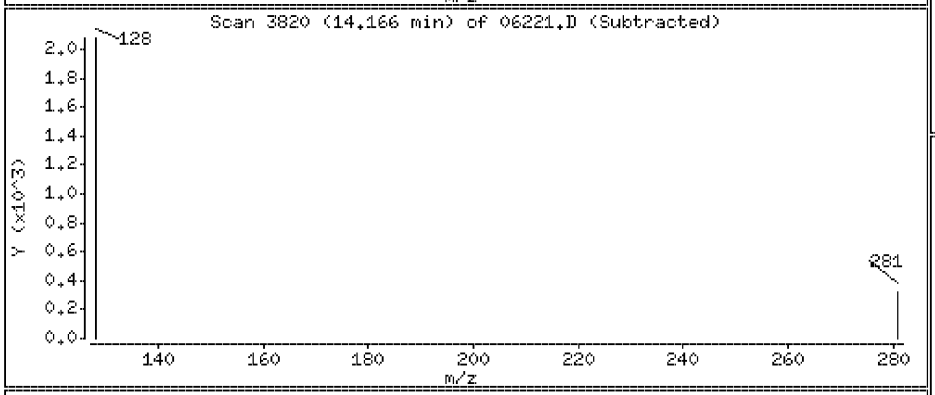
Column diameter: 0.32

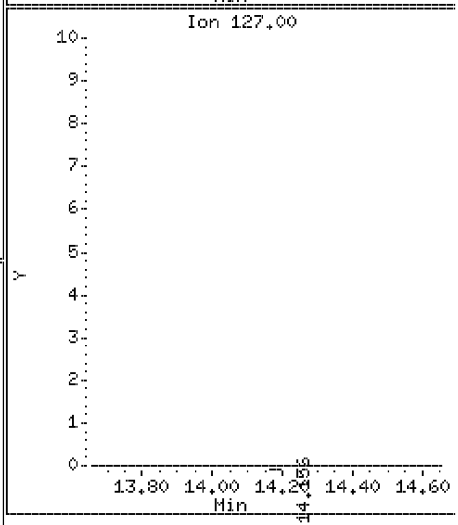
94 Naphthalene

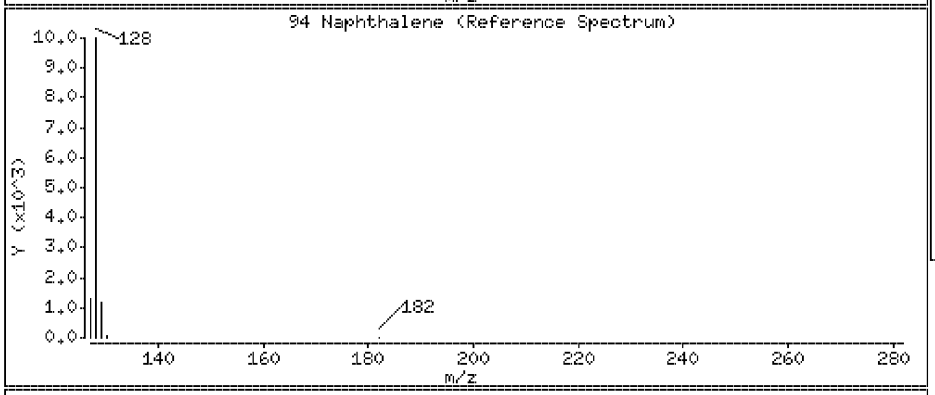
Concentration: 0.723 ppbv

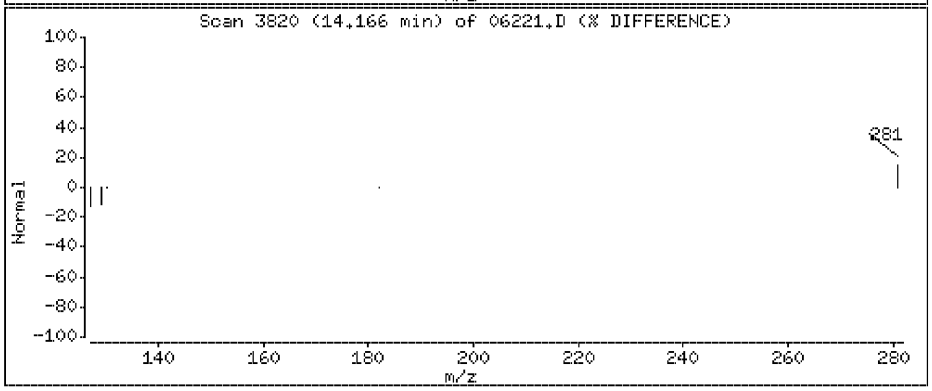






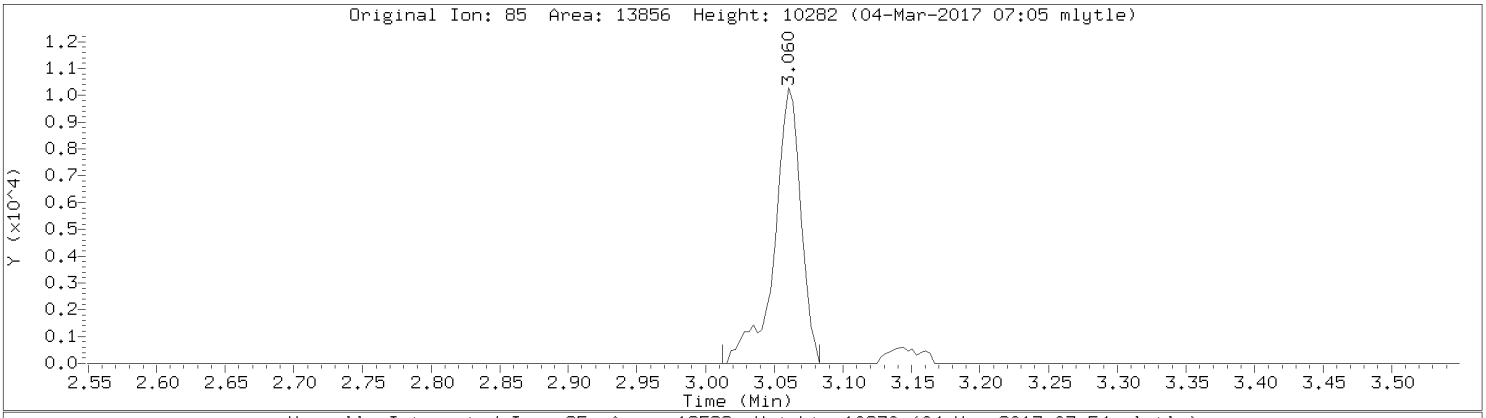


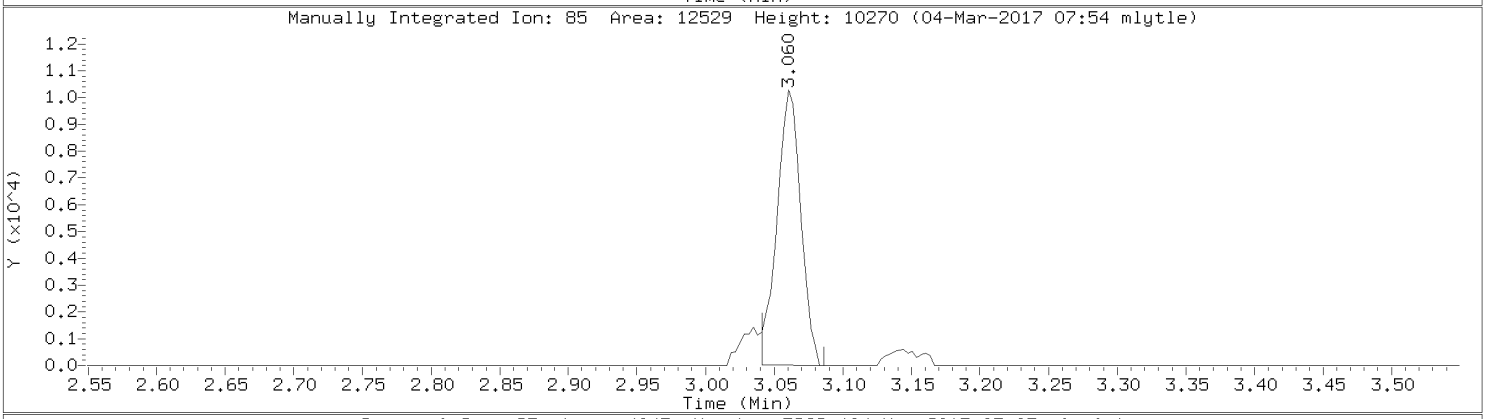


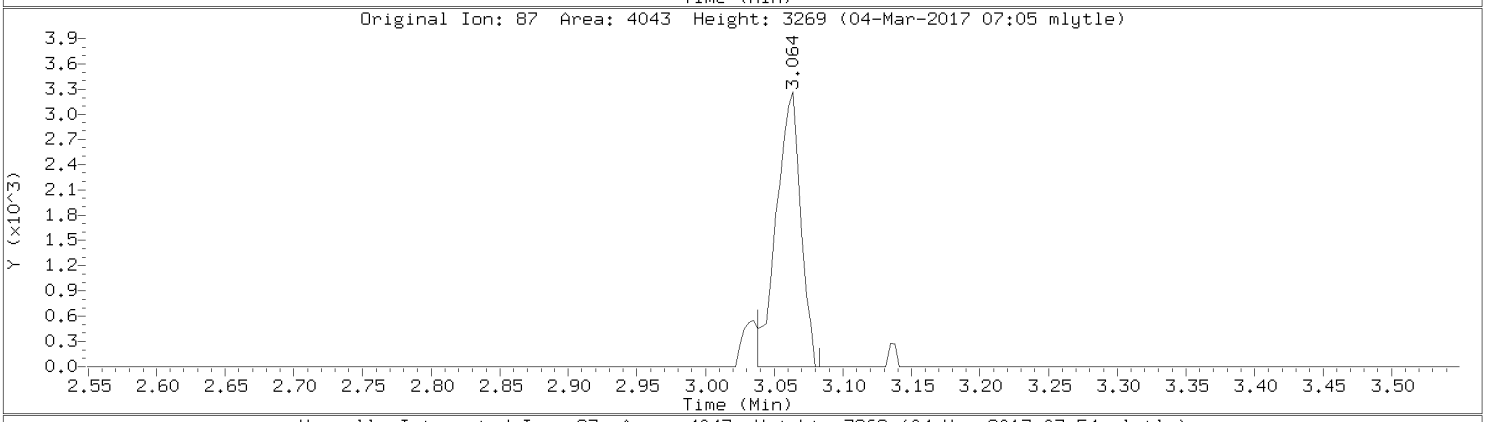


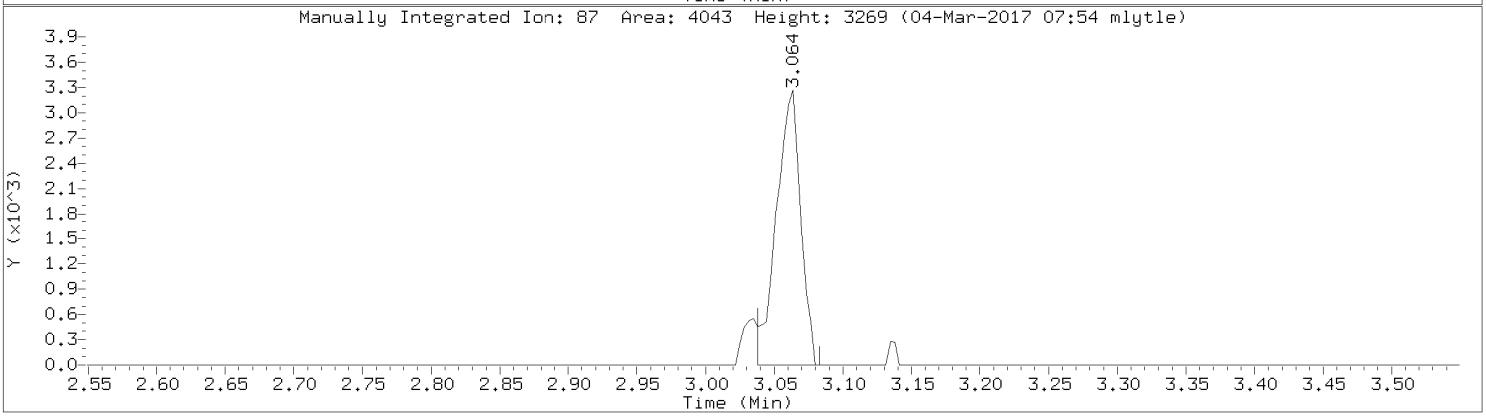
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06221.D
Injection Date: 03-MAR-2017 17:55
Instrument: 10airB.i
Lab Sample ID: 10379929003

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



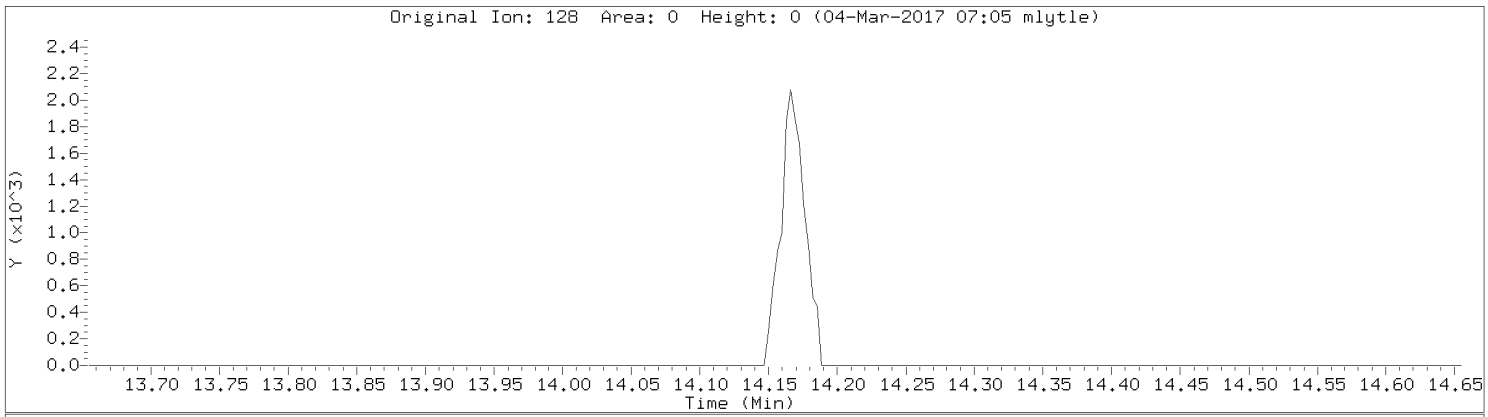


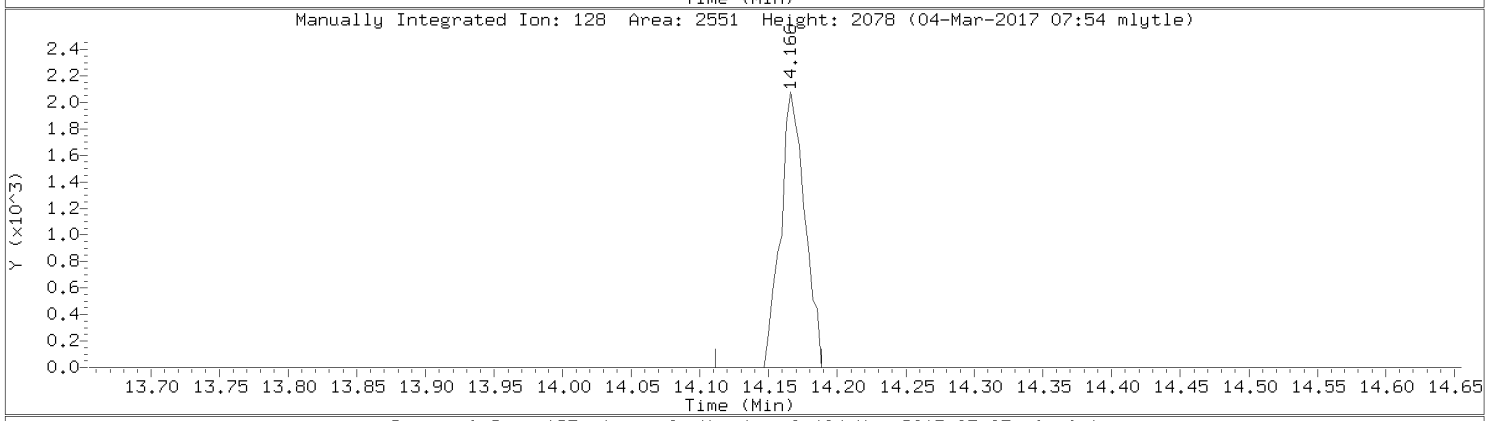


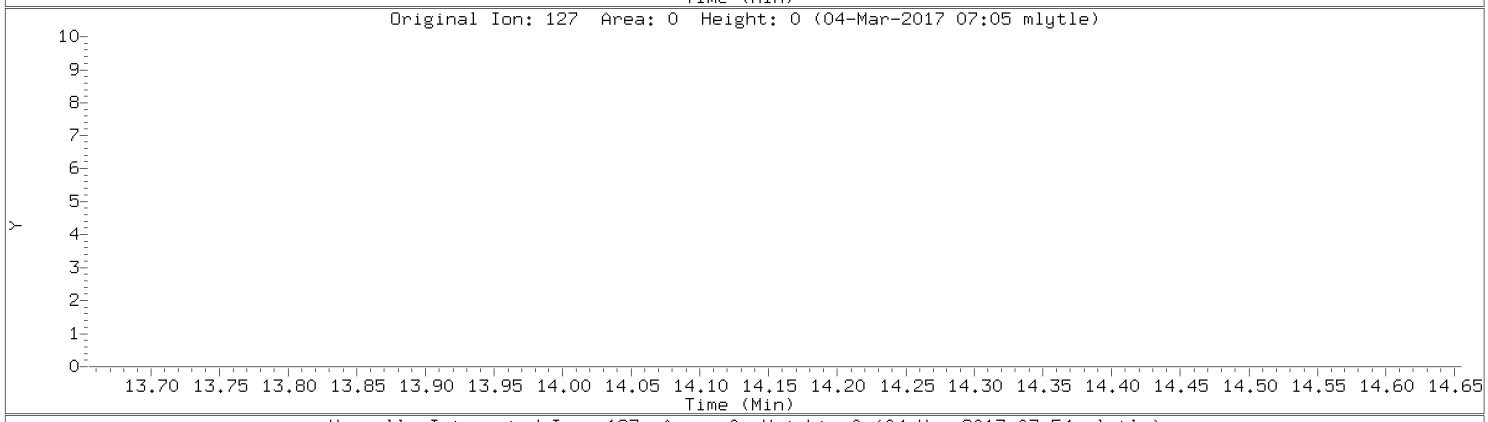


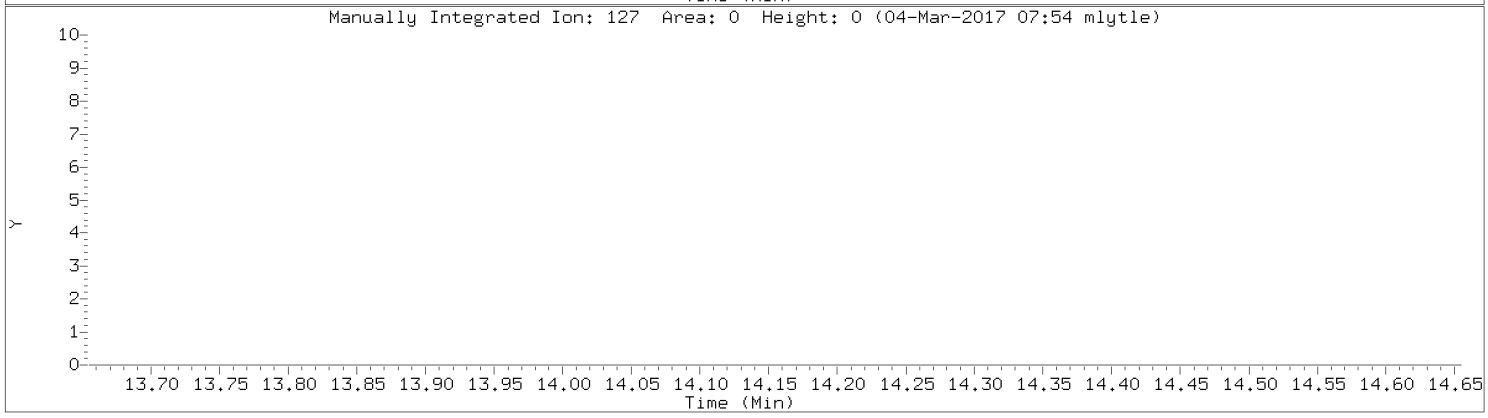
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06221.D
Injection Date: 03-MAR-2017 17:55
Instrument: 10airB.i
Lab Sample ID: 10379929003

Compound: Naphthalene
CAS Number: 91-20-3









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_19_20170221 **Lab ID: 10379929003** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**1.7J**	ug/m3	4.4	0.42	1.75		03/03/17 17:55	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/03/17 17:55	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 17:55	79-34-5	
Tetrachloroethene	**36.6**	ug/m3	1.2	0.49	1.75		03/03/17 17:55	127-18-4	
Toluene	**<0.27**	ug/m3	1.3	0.27	1.75		03/03/17 17:55	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 17:55	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/03/17 17:55	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 17:55	79-00-5	
Trichloroethene	**56.0**	ug/m3	0.96	0.48	1.75		03/03/17 17:55	79-01-6	
Trichlorofluoromethane	**2.3**	ug/m3	2.0	0.23	1.75		03/03/17 17:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	**21.7**	ug/m3	2.8	0.53	1.75		03/03/17 17:55	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/03/17 17:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 17:55	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 17:55	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/03/17 17:55	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/03/17 17:55	95-47-6	

Sample: VP-104_30_20170221 **Lab ID: 10379929004** Collected: 02/21/17 12:37 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**10**	ug/m3	4.2	1.5	1.75		03/03/17 18:26	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 18:26	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/03/17 18:26	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 18:26	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 18:26	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 18:26	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 18:26	106-99-0	
2-Butanone (MEK)	**2.5J**	ug/m3	5.2	0.40	1.75		03/03/17 18:26	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 18:26	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/03/17 18:26	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 18:26	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/03/17 18:26	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 18:26	75-00-3	
Chloroform	**4.8**	ug/m3	0.87	0.33	1.75		03/03/17 18:26	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/03/17 18:26	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 18:26	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 18:26	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 18:26	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 18:26	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 18:26	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 18:26	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 18:26	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_30_20170221 **Lab ID: 10379929004** Collected: 02/21/17 12:37 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 18:26	106-46-7	
Dichlorodifluoromethane	**2.6**	ug/m3	1.8	0.84	1.75		03/03/17 18:26	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 18:26	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 18:26	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 18:26	75-35-4	
cis-1,2-Dichloroethene	**18.0**	ug/m3	1.4	0.43	1.75		03/03/17 18:26	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/03/17 18:26	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 18:26	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 18:26	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 18:26	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 18:26	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 18:26	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 18:26	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/03/17 18:26	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/03/17 18:26	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 18:26	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/03/17 18:26	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 18:26	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 18:26	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 18:26	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 18:26	108-87-2	
Methylene Chloride	**20.5**	ug/m3	6.2	0.95	1.75		03/03/17 18:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 18:26	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 18:26	1634-04-4	
2-Propanol	**2.5J**	ug/m3	4.4	0.42	1.75		03/03/17 18:26	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/03/17 18:26	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 18:26	79-34-5	
Tetrachloroethene	**92.3**	ug/m3	1.2	0.49	1.75		03/03/17 18:26	127-18-4	
Toluene	**2.0**	ug/m3	1.3	0.27	1.75		03/03/17 18:26	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 18:26	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/03/17 18:26	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 18:26	79-00-5	
Trichloroethene	**139**	ug/m3	0.96	0.48	1.75		03/03/17 18:26	79-01-6	
Trichlorofluoromethane	**6.7**	ug/m3	2.0	0.23	1.75		03/03/17 18:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	**150**	ug/m3	2.8	0.53	1.75		03/03/17 18:26	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/03/17 18:26	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 18:26	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 18:26	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/03/17 18:26	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/03/17 18:26	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D
Report Date: 04-Mar-2017 07:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030317.b\06222.D
Lab Smp Id: 10379929004
Inj Date : 03-MAR-2017 18:26
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Meth Date : 04-Mar-2017 07:02 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 22
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.012	3.005	(0.538)	79053	11.2066	19.6(QM)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.050	(0.546)	12793	0.29789	0.521(M)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.542	(0.633)	6215	1.40575	2.46	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.584	3.593	(0.640)	6745	0.42662	0.747(QM)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.658	3.671	(0.653)	21989	0.66659	1.17	
17	Acrolein	56	3.677	3.680	(0.656)	873	0.38857	0.680	
18	Acetone	43	3.725	3.719	(0.665)	44996	2.35691	4.12	
19	Isopropyl Alcohol	45	3.774	3.764	(0.673)	10983	0.56409	0.987	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.947	3.944	(0.705)	274184	11.0068	19.3	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D
Report Date: 04-Mar-2017 07:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.989	4.002	(0.712)	44746	3.32076	5.81	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.436	4.388	(0.792)	4336	0.31731	0.555	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.487	(0.800)	361335	9.43898	9.44	
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.814)	2277	0.47024	0.823(Q)	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.700	4.725	(0.839)	30751	2.55688	4.47(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.859)	13678	0.54872	0.960	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.603	5.609	(1.000)	1203229	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.976	5.986	(1.067)	293615	14.5235	25.4	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.072	(1.262)	1035549	9.61581	9.62	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.275)	14448	0.29731	0.520	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.571	7.580	(0.876)	3852	0.14278	0.250(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.982	(0.924)	209562	7.65140	13.4	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	788753	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D
Report Date: 04-Mar-2017 07:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	454752	10.4662	10.5
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	14.172	14.156	(1.641)	1447	0.38459	0.673(M)
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D
Report Date: 04-Mar-2017 07:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06222.D
Lab Smp Id: 10379929004
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Misc Info: 27830

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

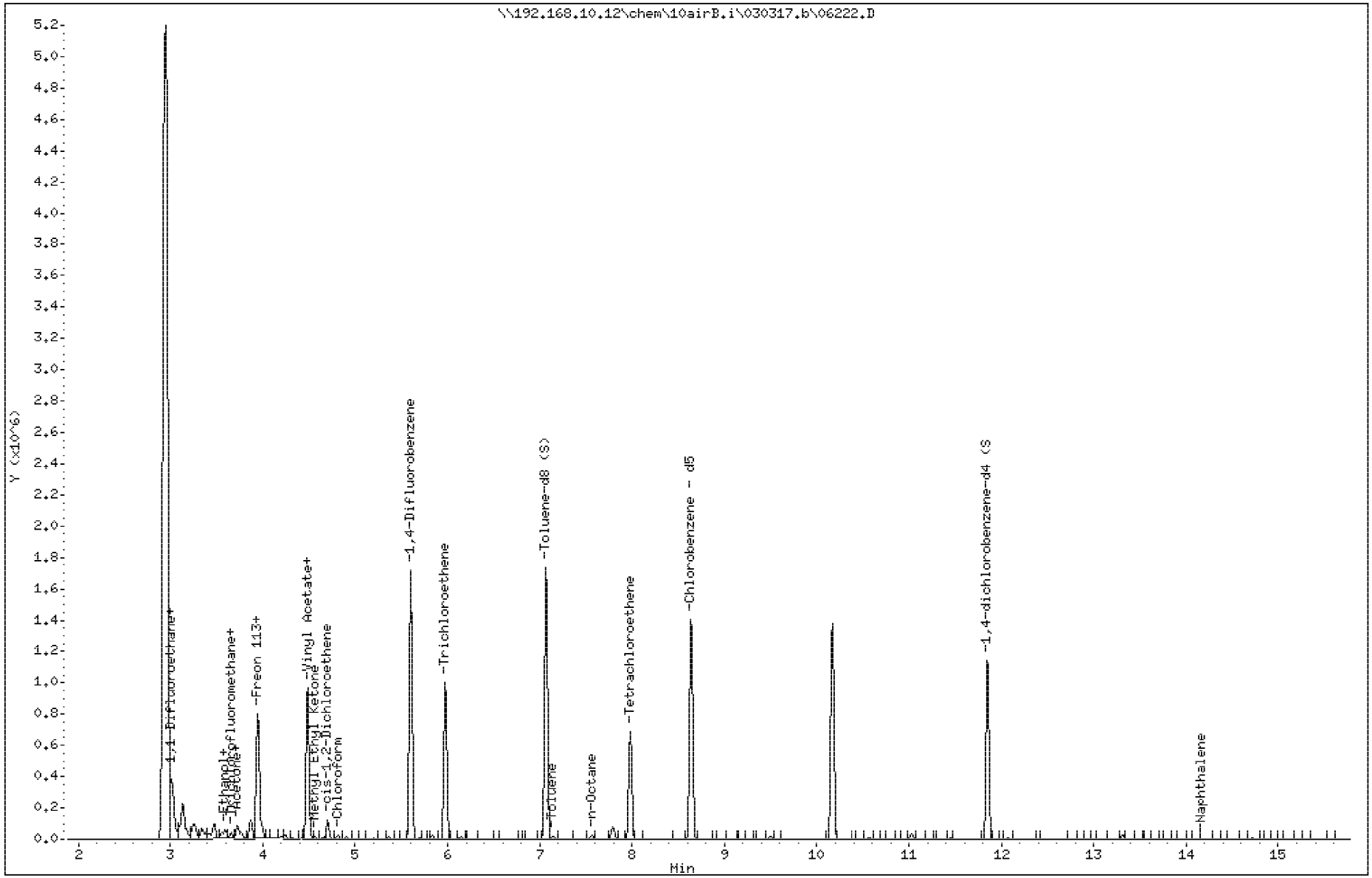
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1203229	-14.91
67 Chlorobenzene - d	951026	570616	1331436	788753	-17.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D
Date : 03-MAR-2017 18:26
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

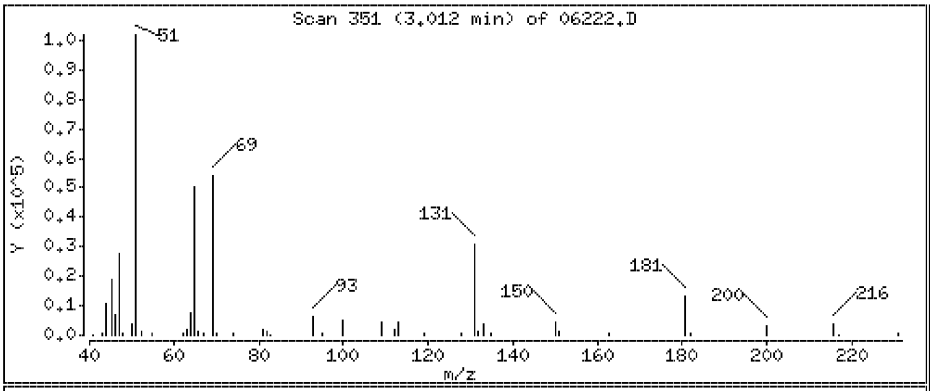
Operator: MJL

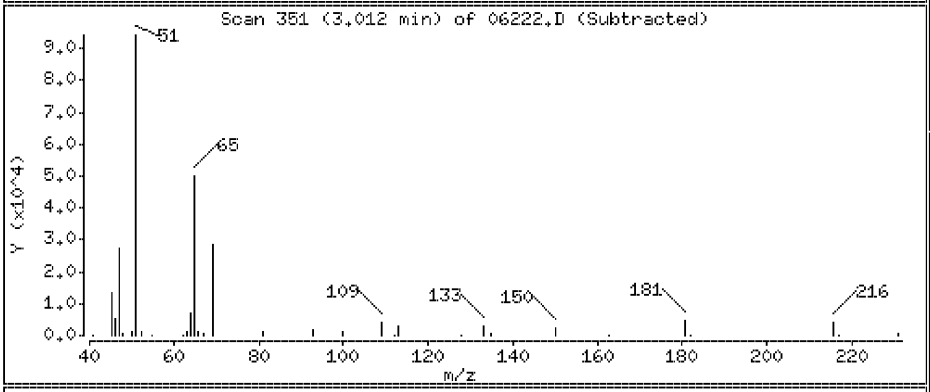
Column phase: J&W DB-5

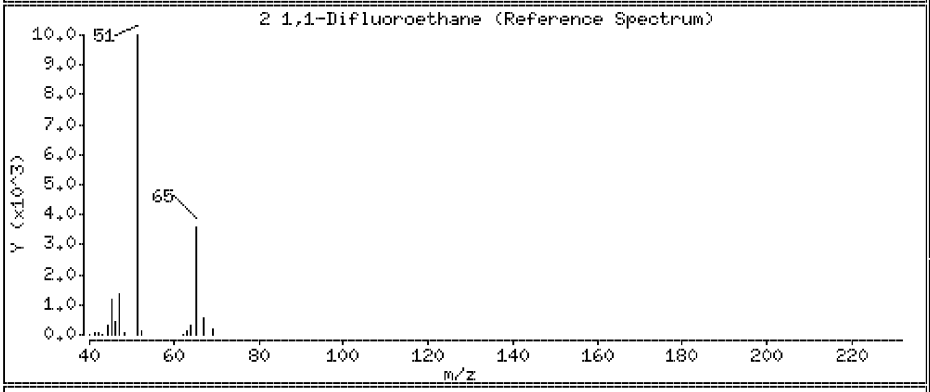
Column diameter: 0.32

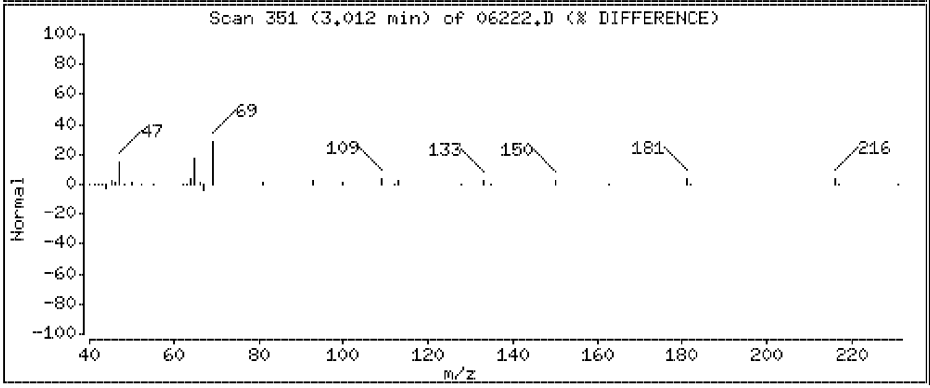
2 1,1-Difluoroethane

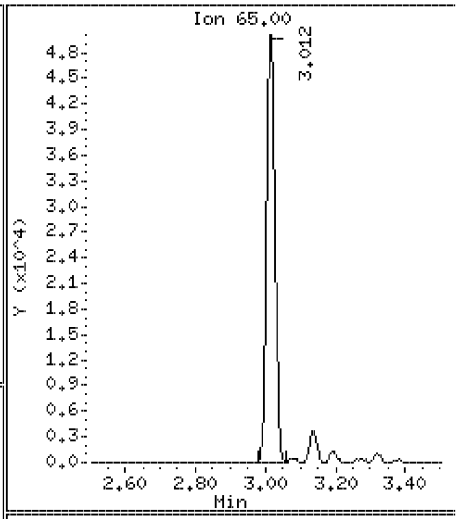
Concentration: 19.6 ppbv

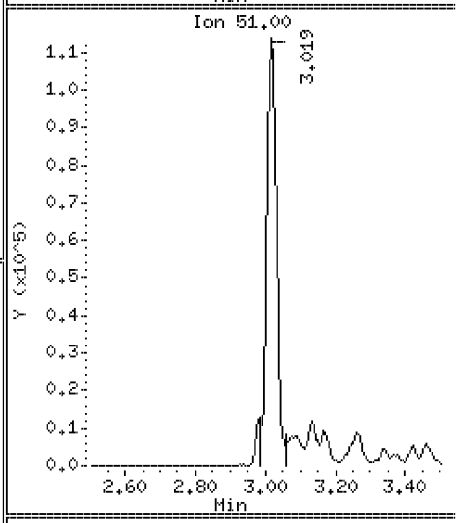


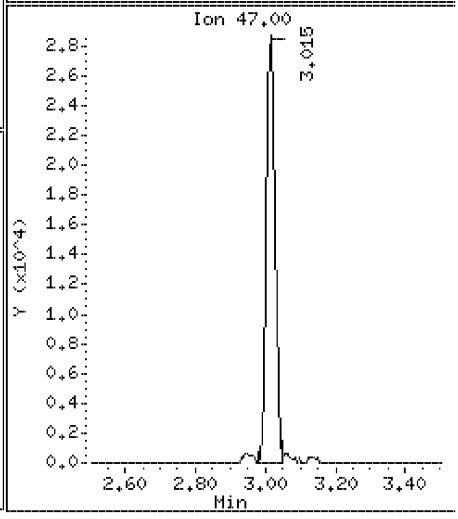












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

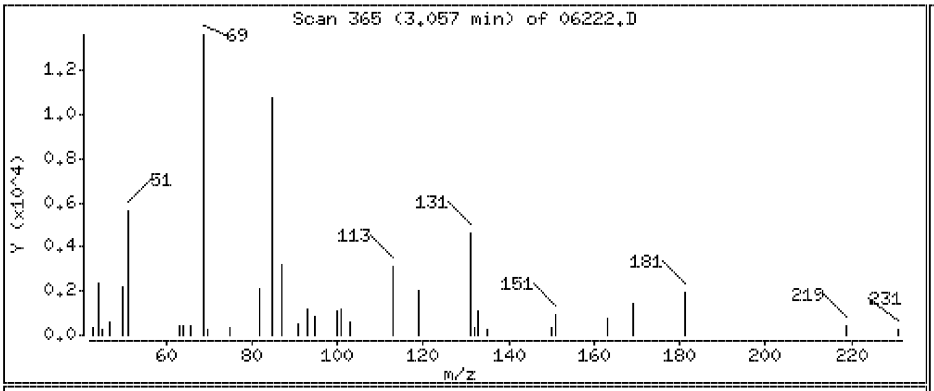
Operator: MJL

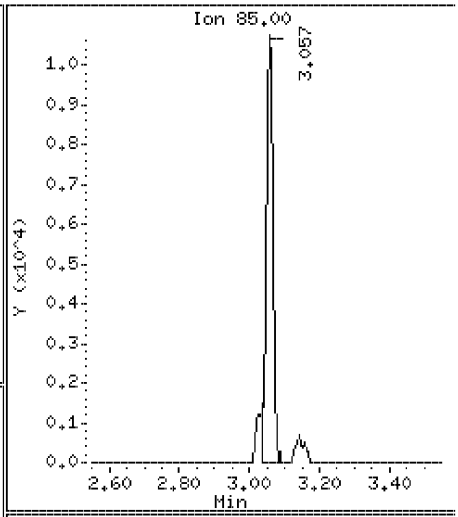
Column phase: J&W DB-5

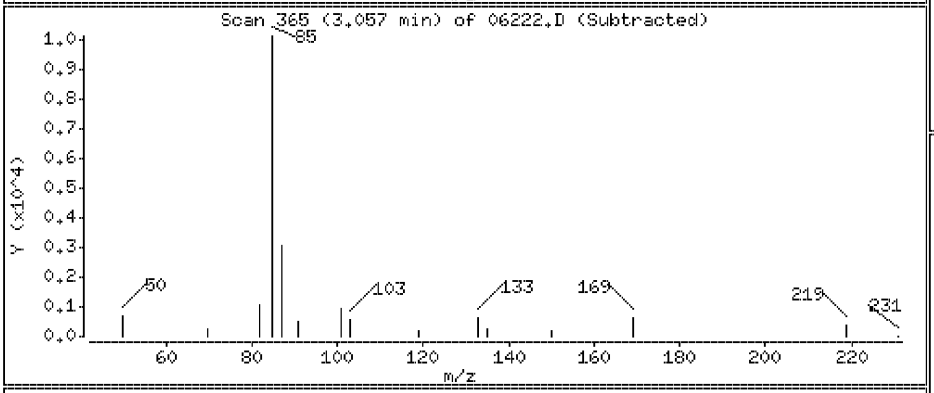
Column diameter: 0.32

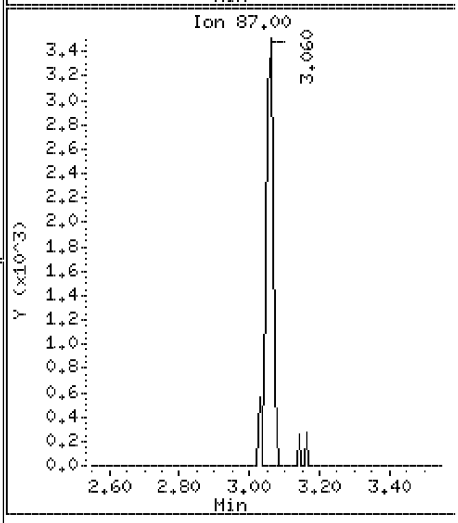
5 Dichlorodifluoromethane

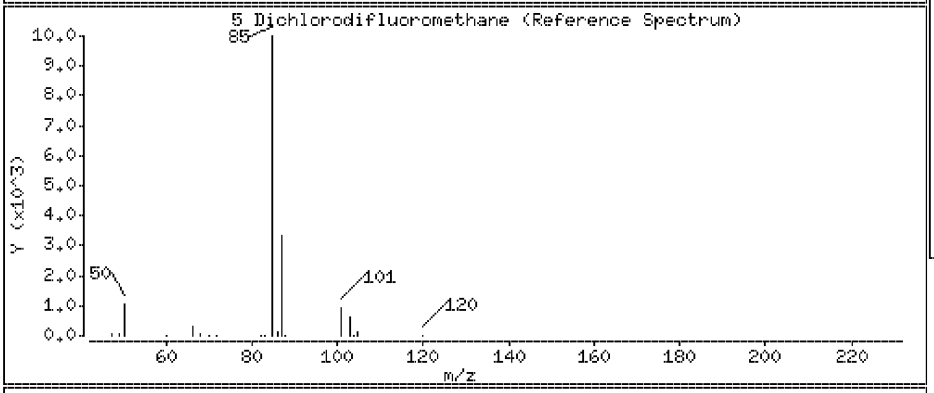
Concentration: 0.521 ppbv

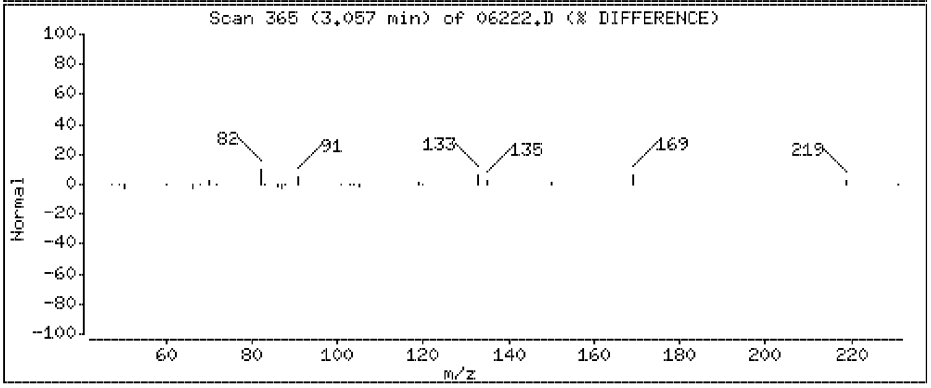












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

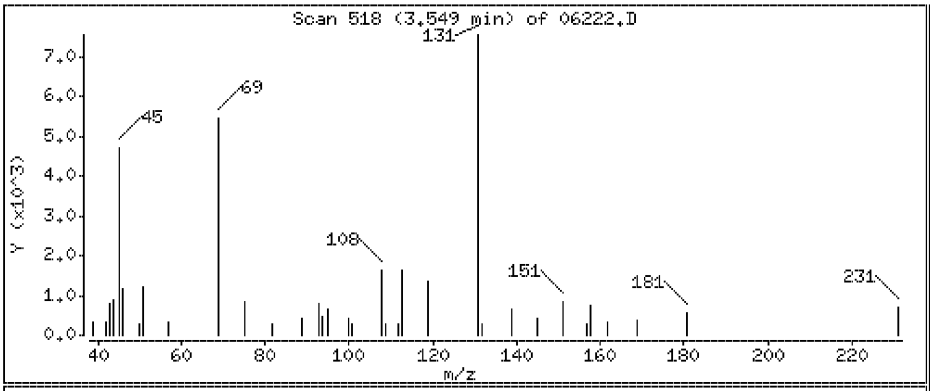
Operator: MJL

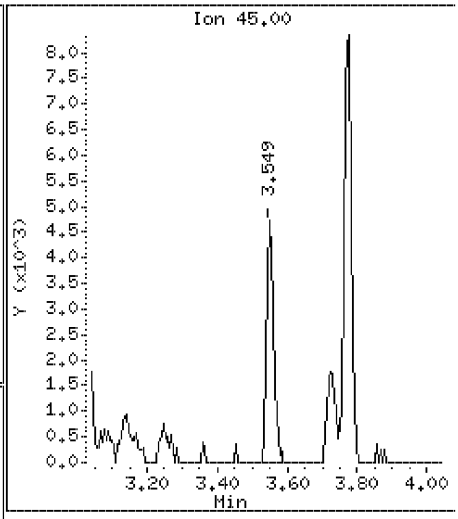
Column phase: J&W DB-5

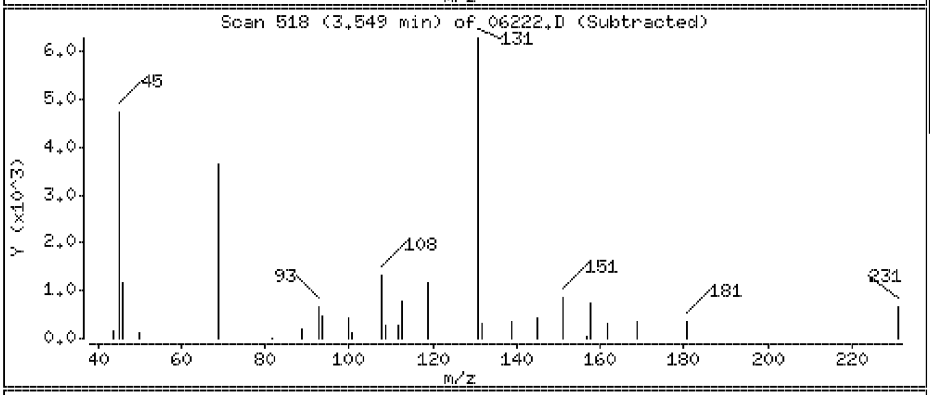
Column diameter: 0.32

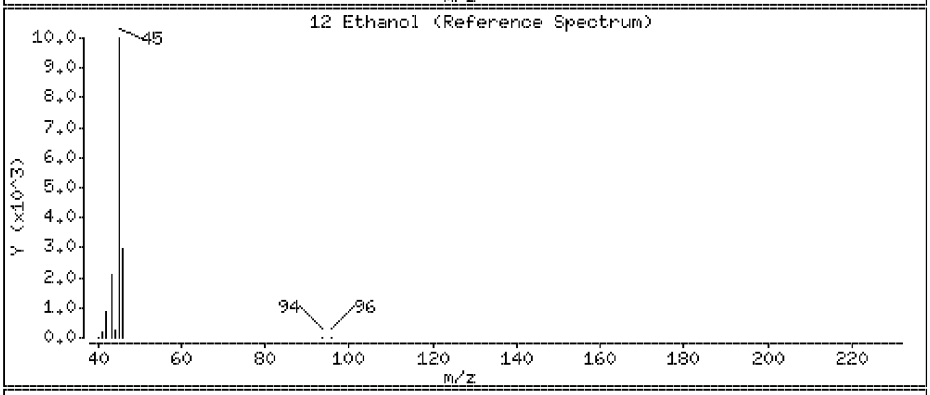
12 Ethanol

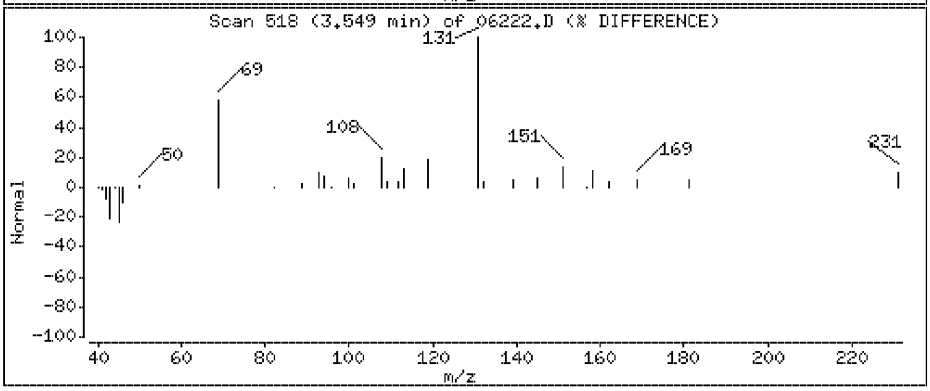
Concentration: 2.46 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

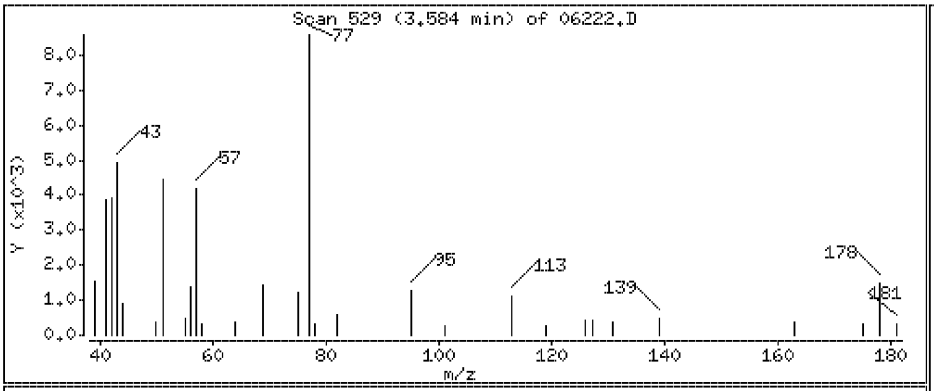
Operator: MJL

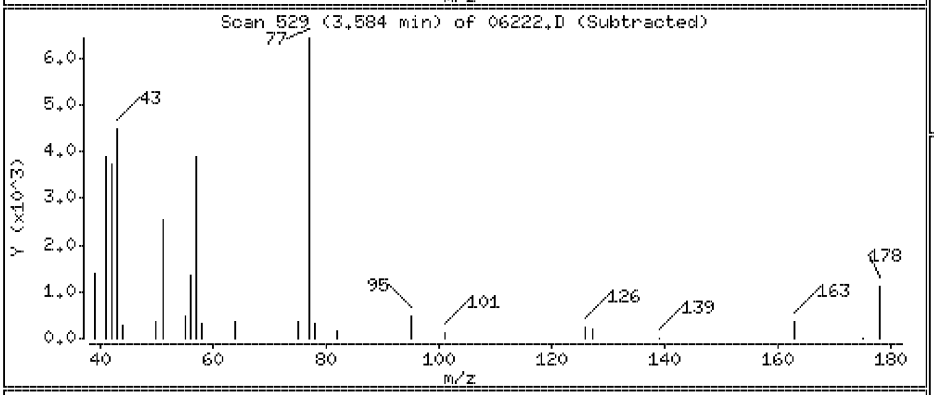
Column phase: J&W DB-5

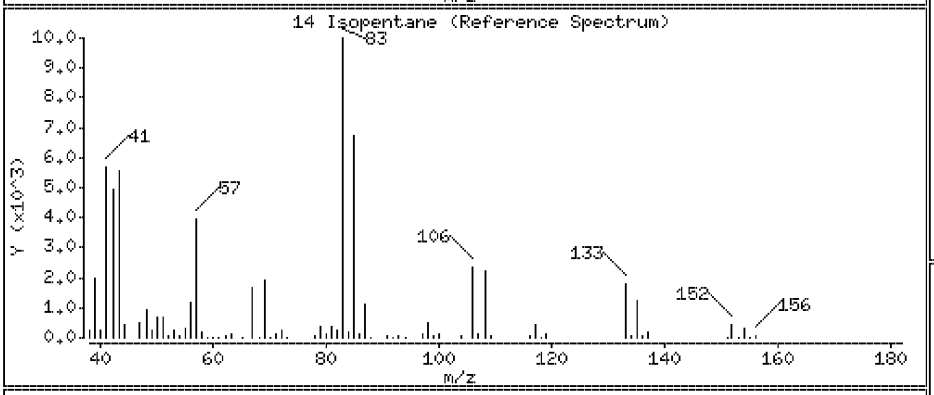
Column diameter: 0.32

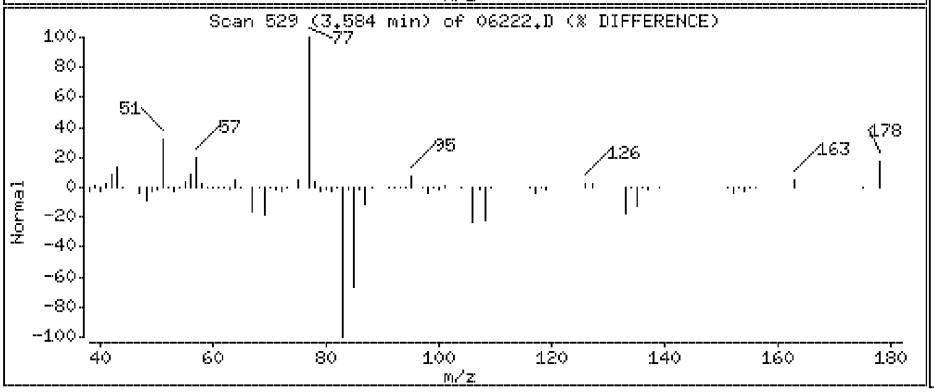
14 Isopentane

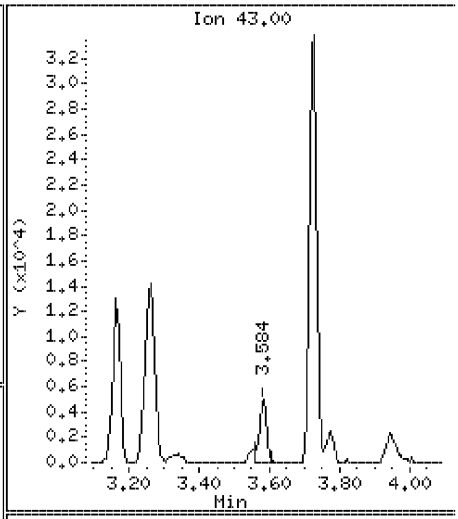
Concentration: 0.747 ppbv

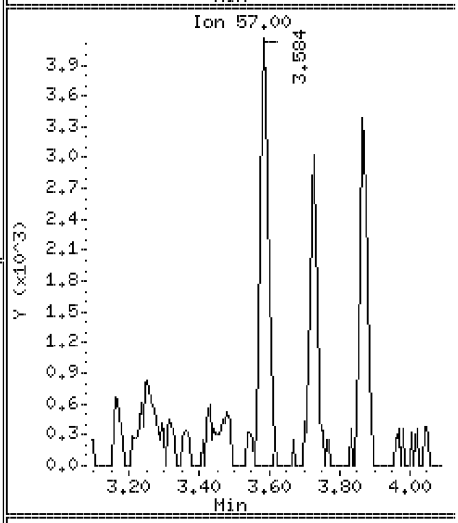


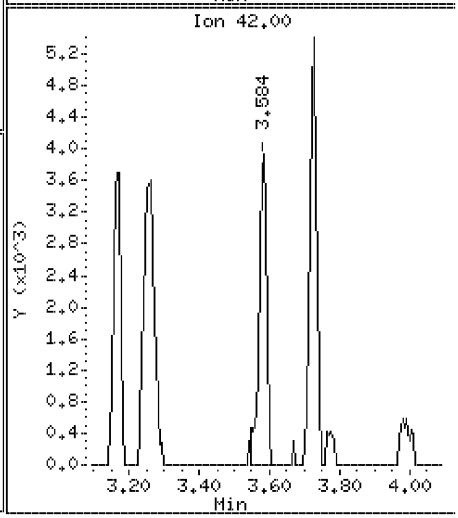












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

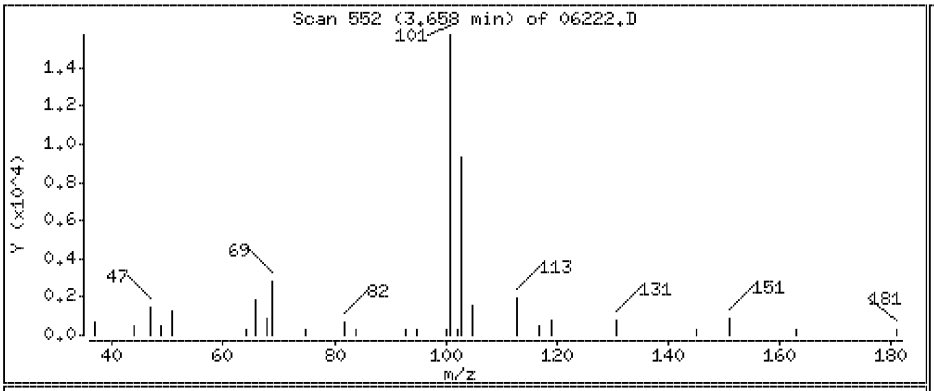
Operator: MJL

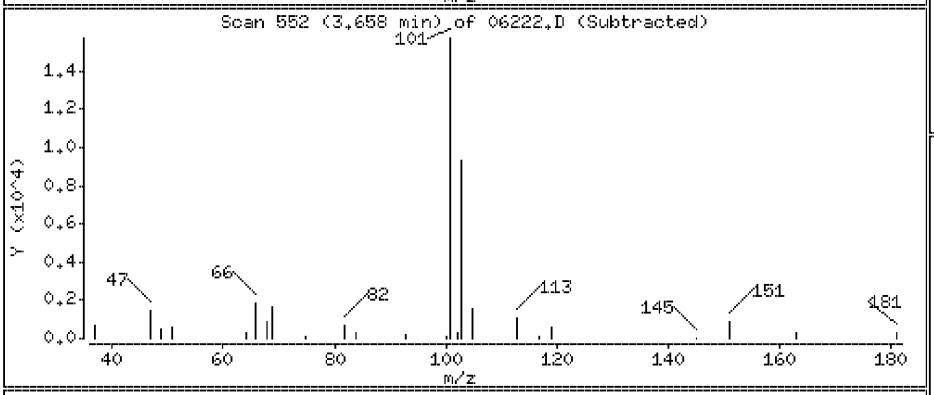
Column phase: J&W DB-5

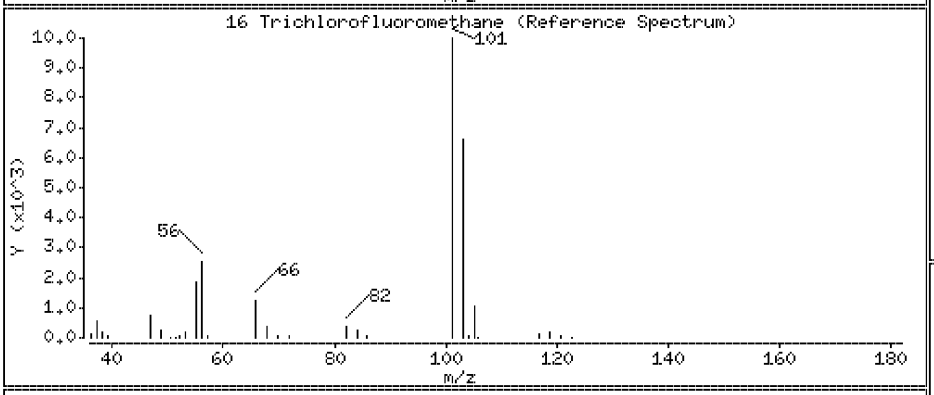
Column diameter: 0.32

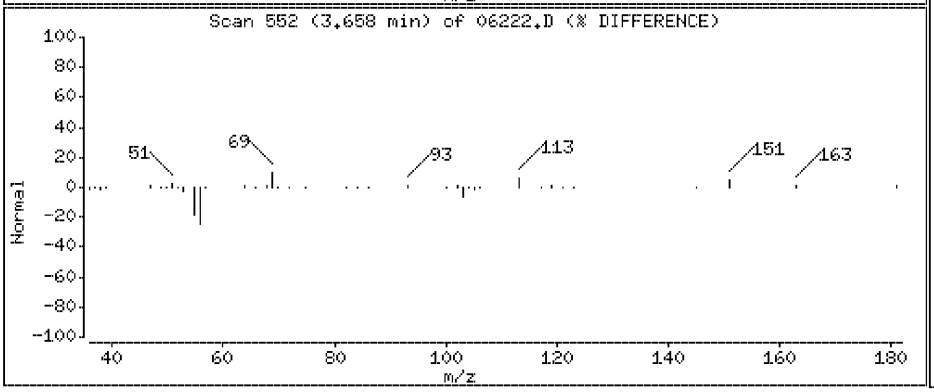
16 Trichlorofluoromethane

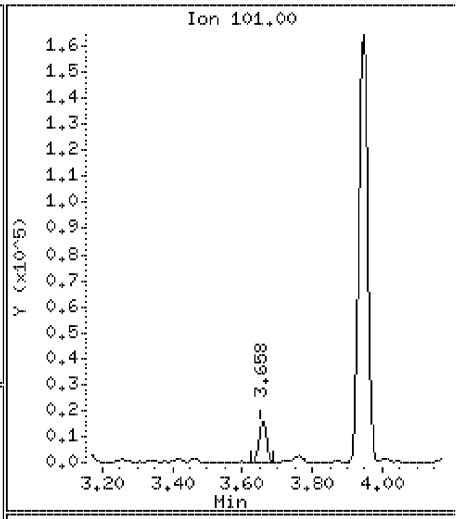
Concentration: 1.17 ppbv

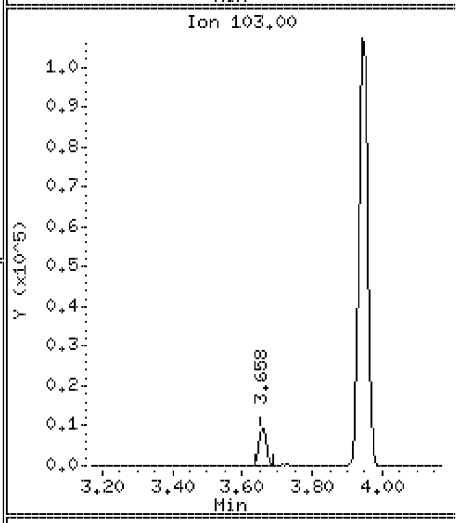


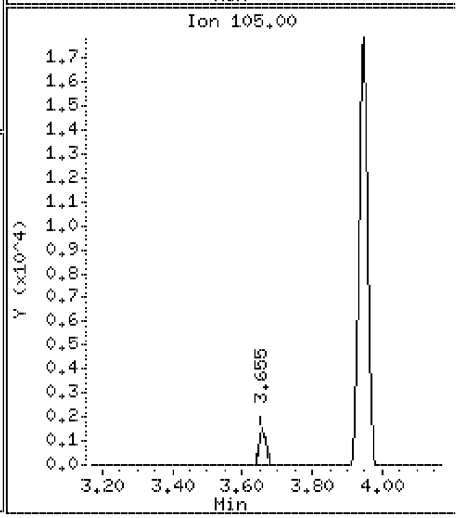












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

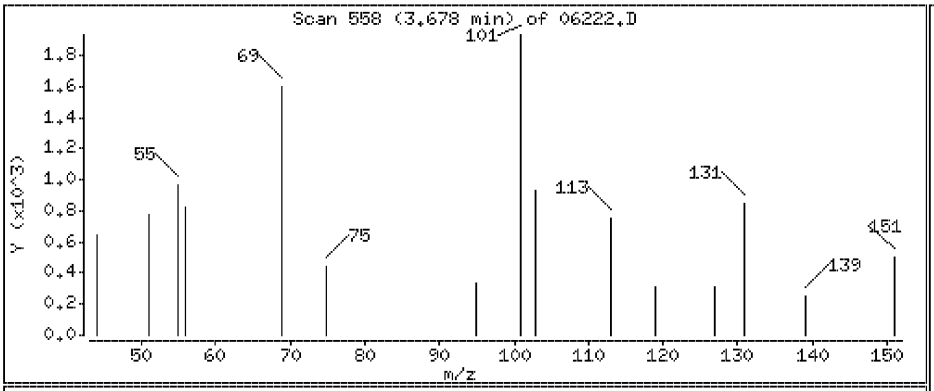
Operator: MJL

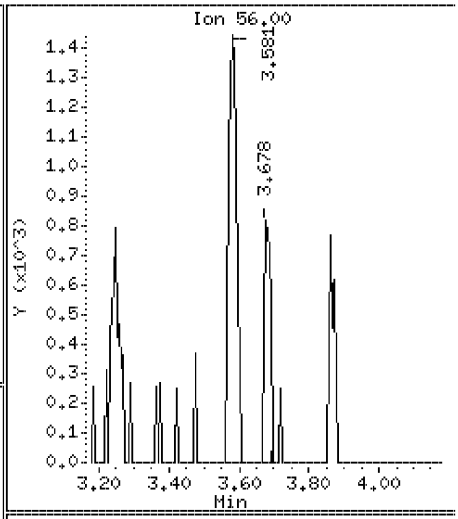
Column phase: J&W DB-5

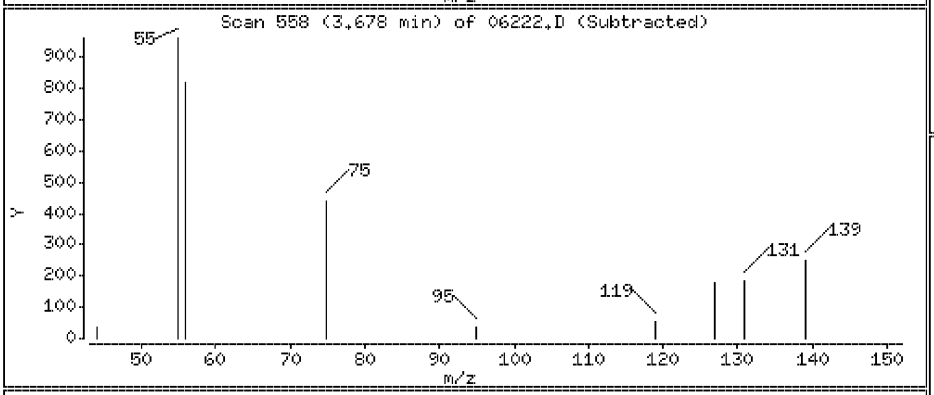
Column diameter: 0.32

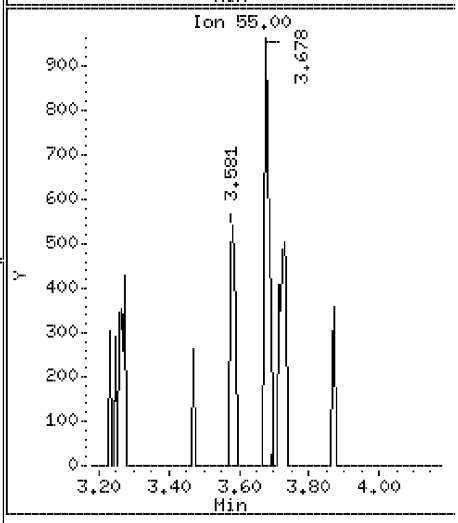
17 Acrolein

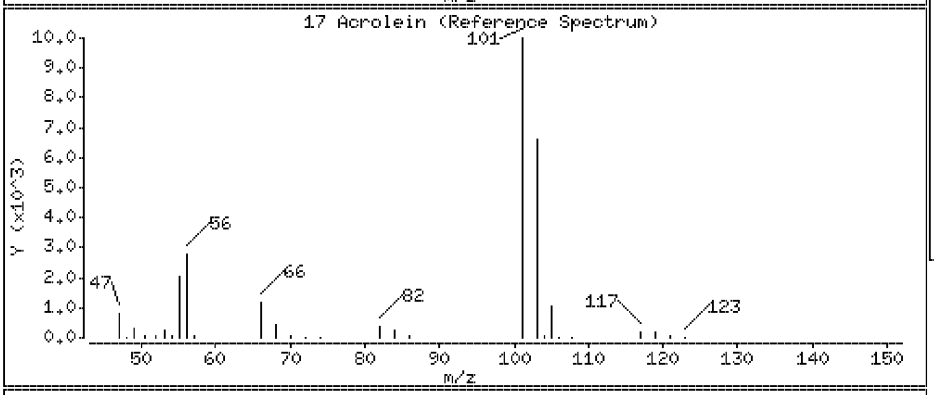
Concentration: 0.680 ppbv

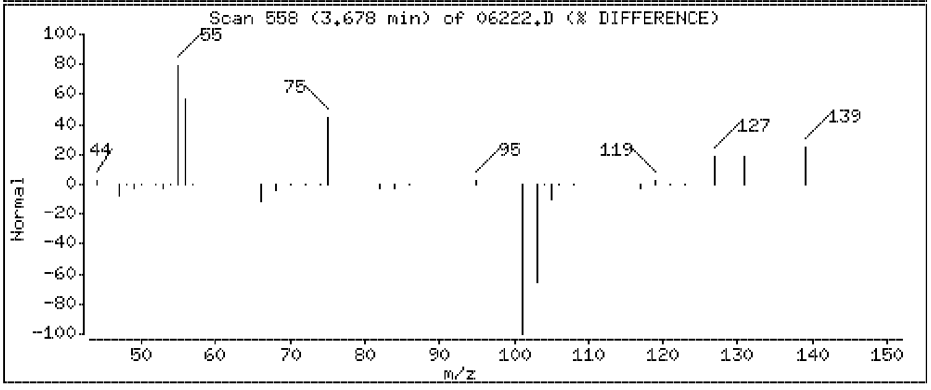












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

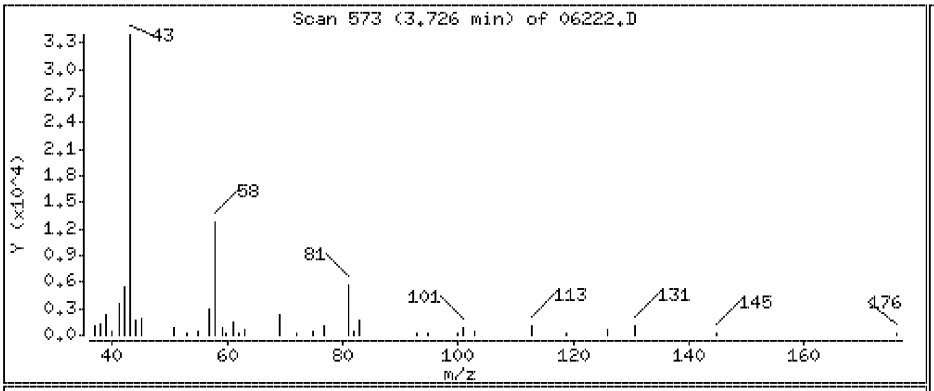
Operator: MJL

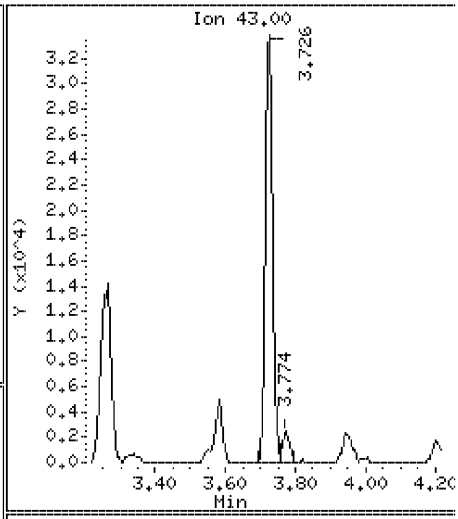
Column phase: J&W DB-5

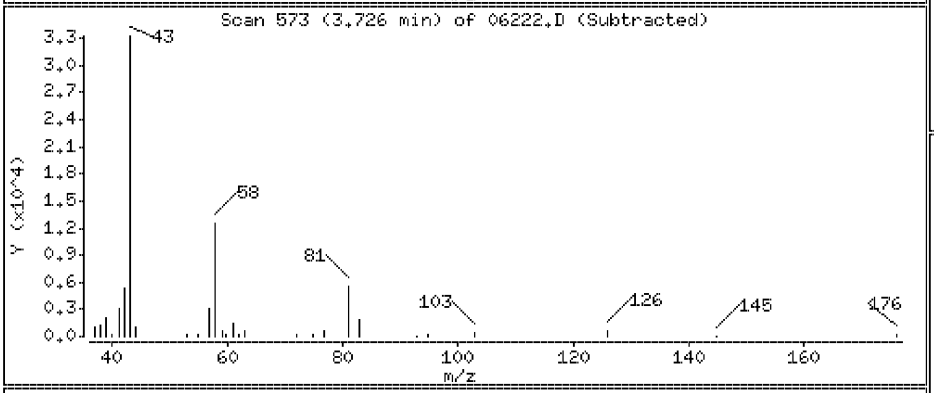
Column diameter: 0.32

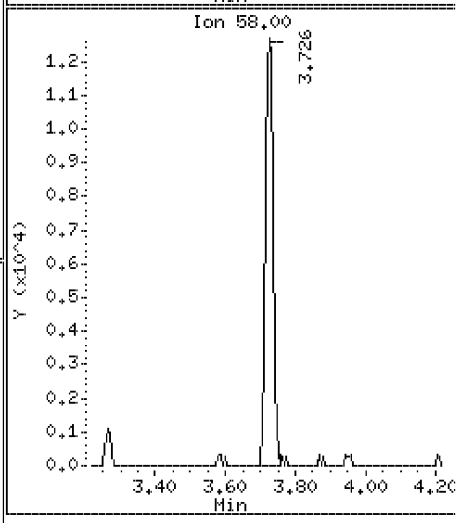
18 Acetone

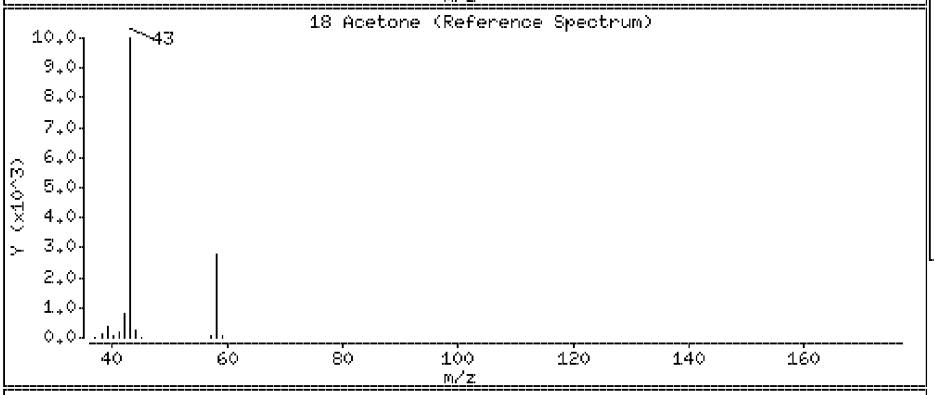
Concentration: 4.12 ppbv

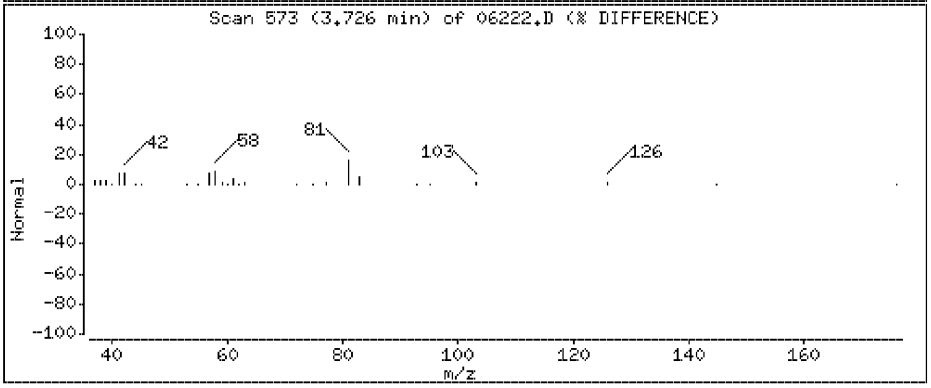












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

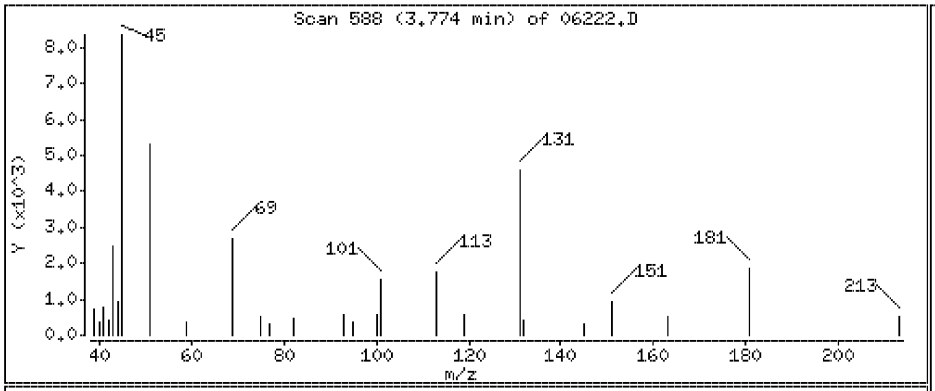
Operator: MJL

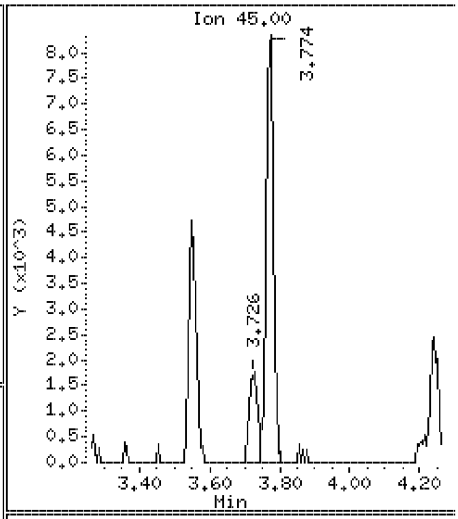
Column phase: J&W DB-5

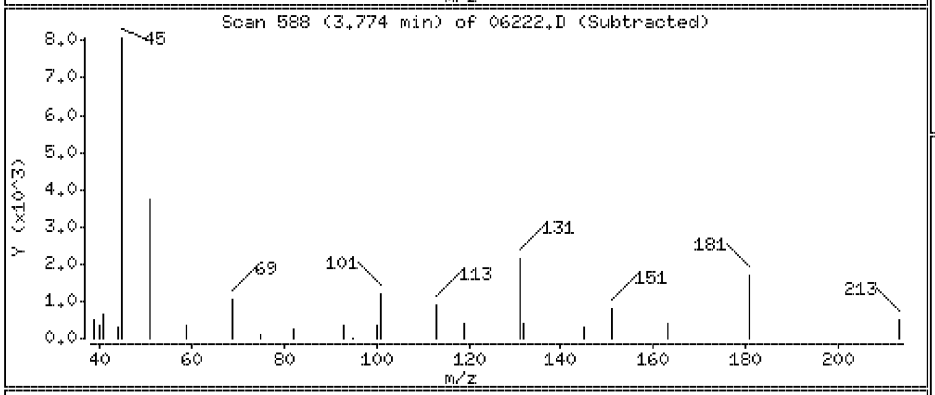
Column diameter: 0.32

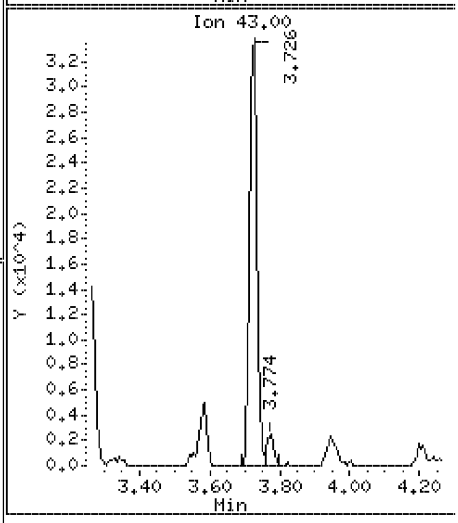
19 Isopropyl Alcohol

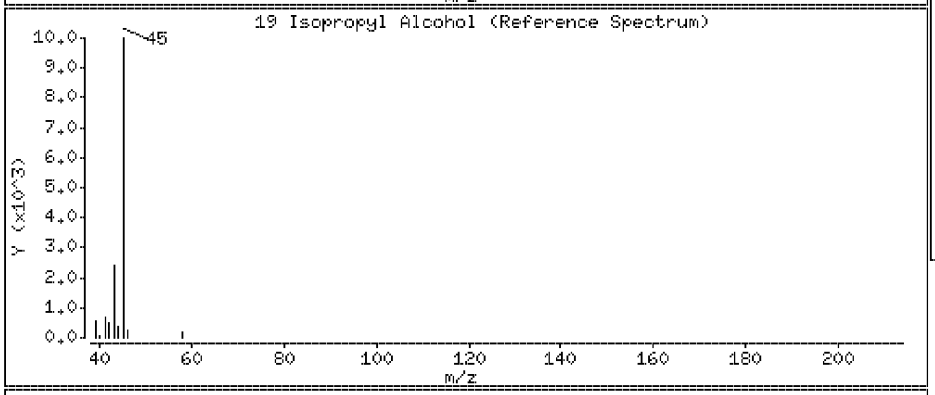
Concentration: 0.987 ppbv

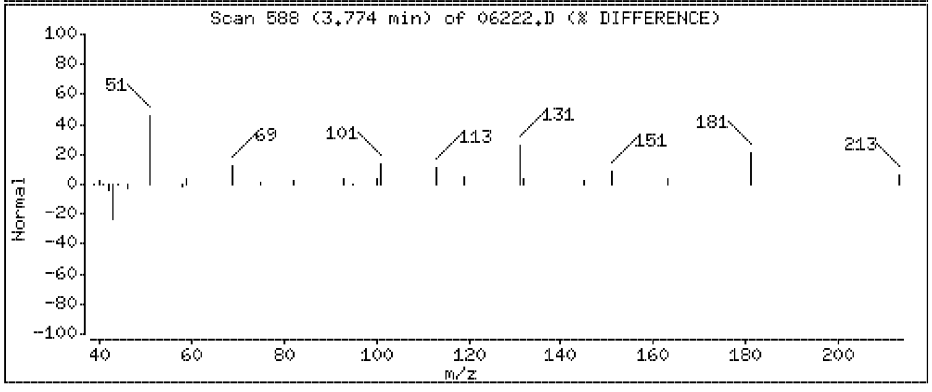












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

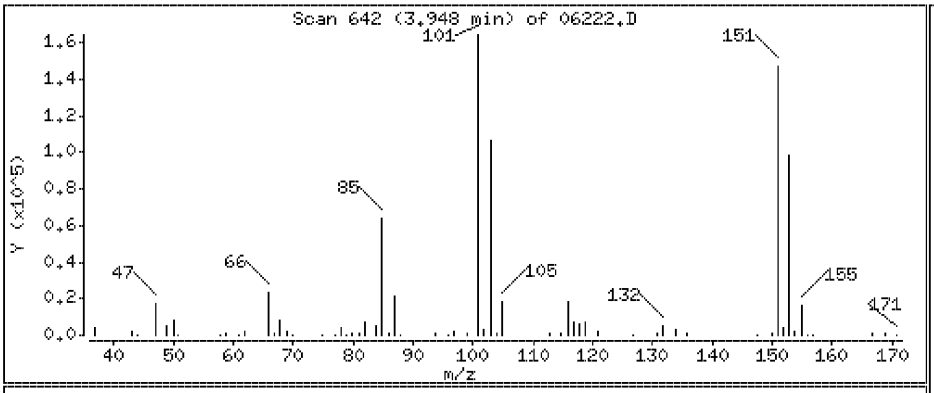
Operator: MJL

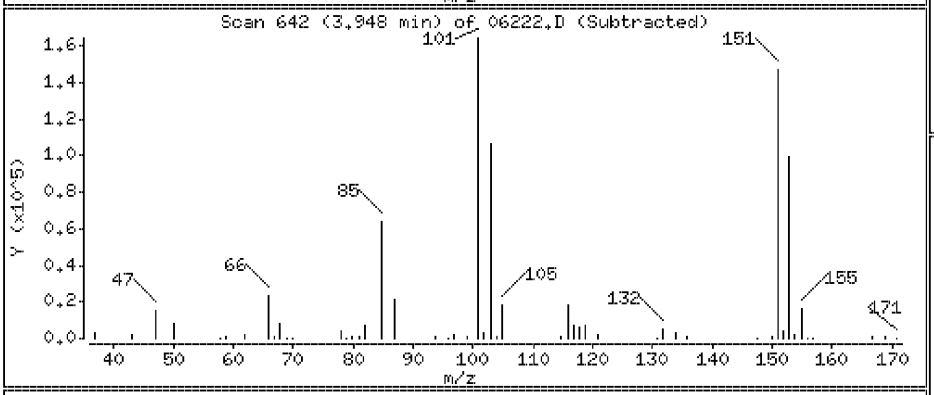
Column phase: J&W DB-5

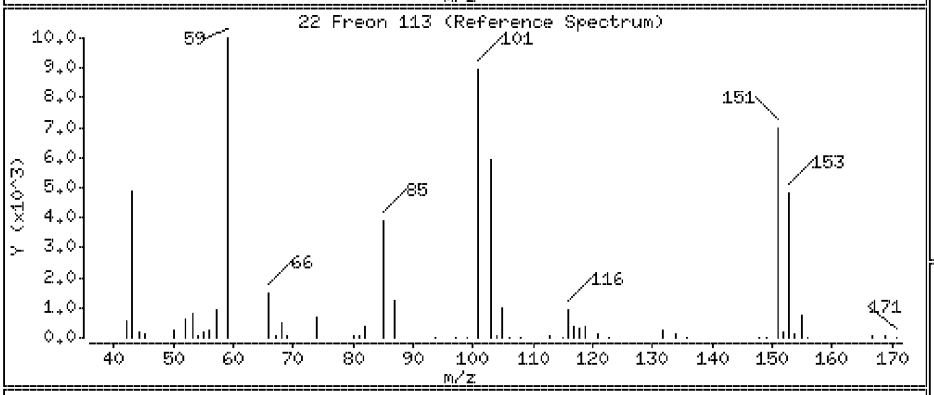
Column diameter: 0.32

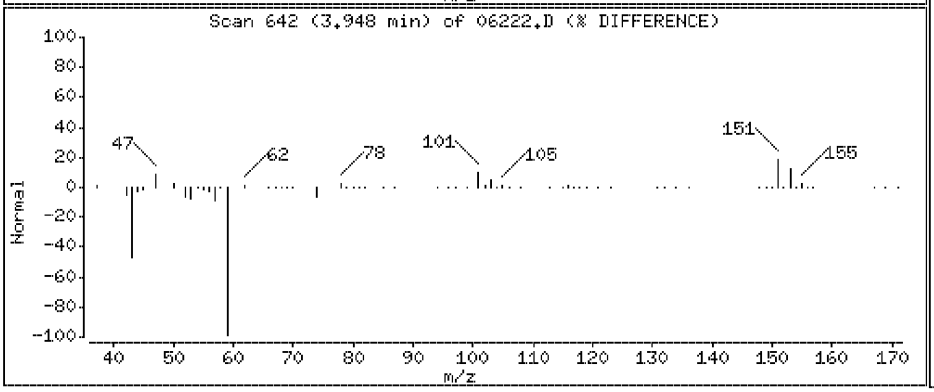
22 Freon 113

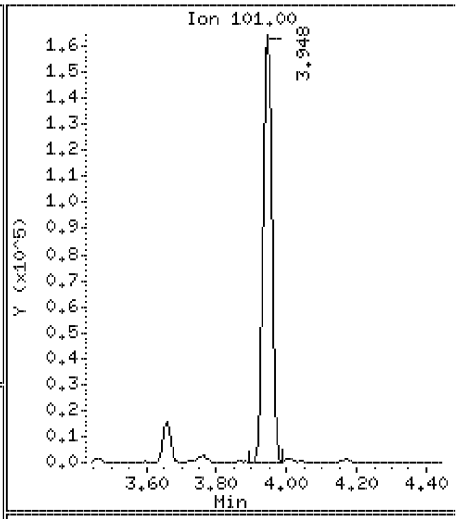
Concentration: 19.3 ppbv

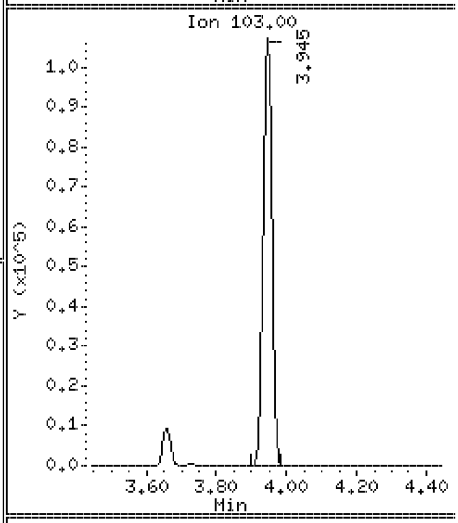


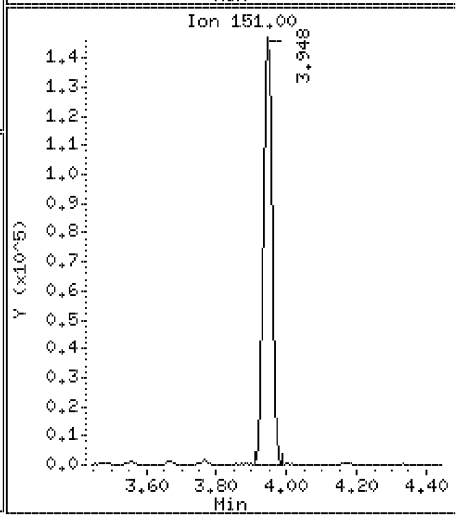












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

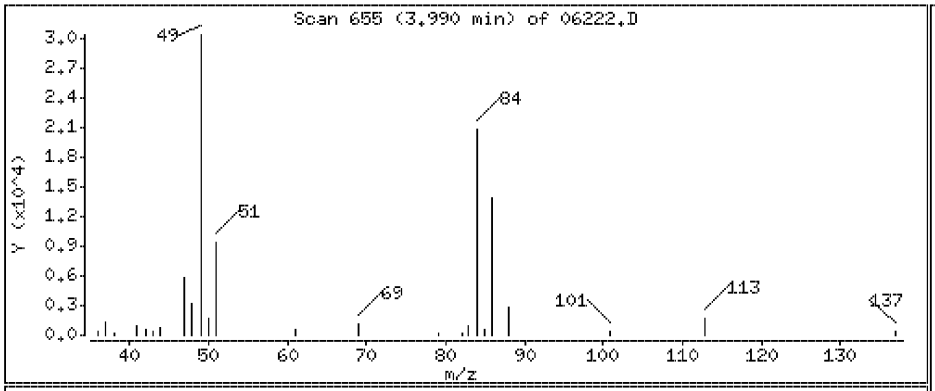
Operator: MJL

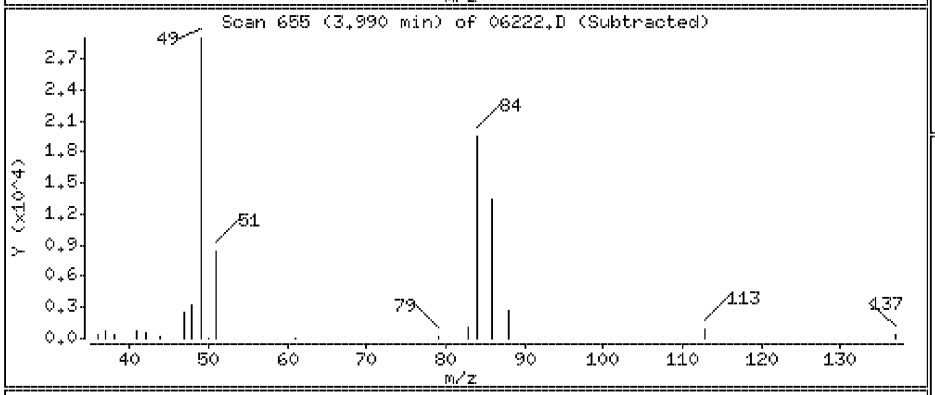
Column phase: J&W DB-5

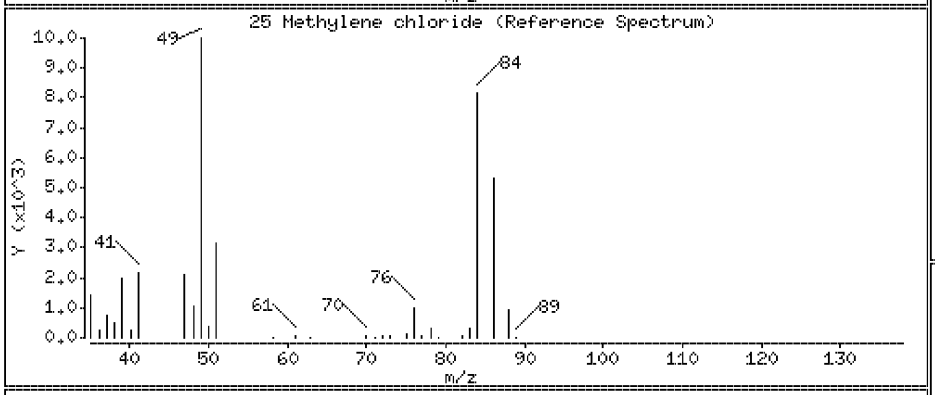
Column diameter: 0.32

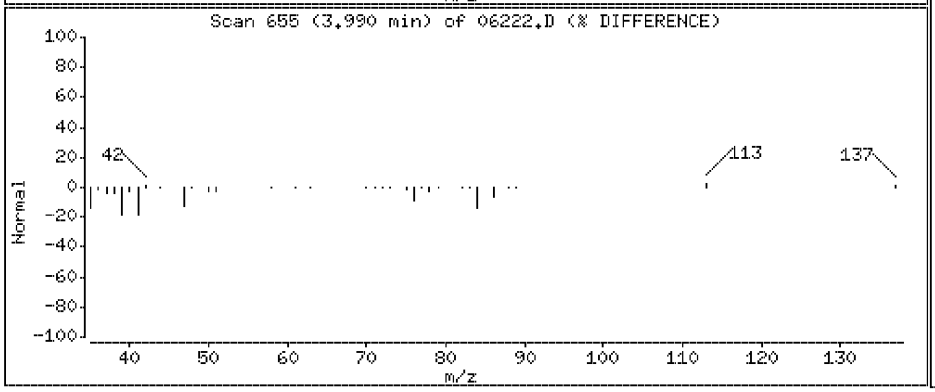
25 Methylene chloride

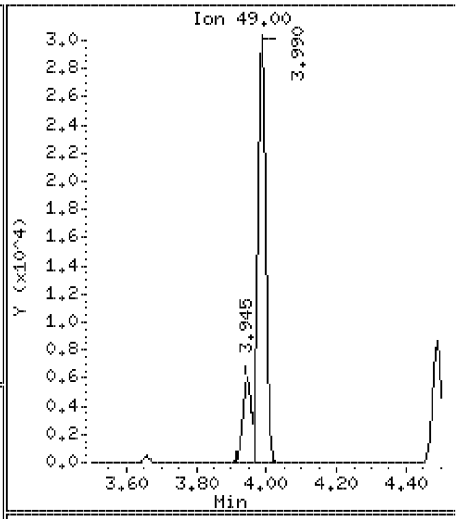
Concentration: 5.81 ppbv

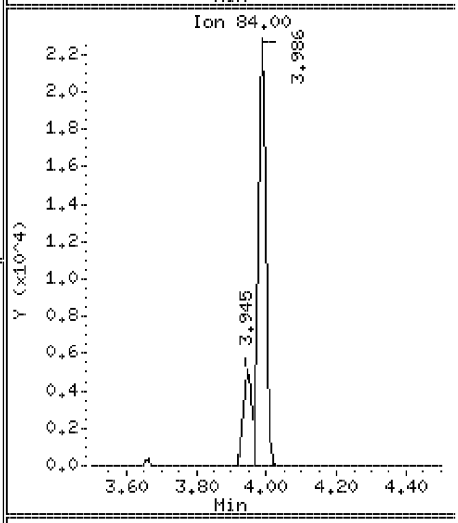


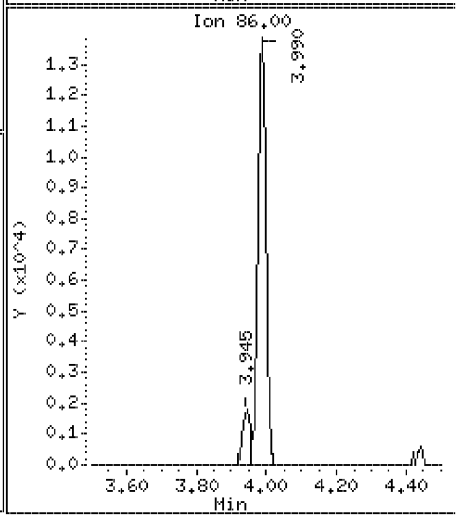












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

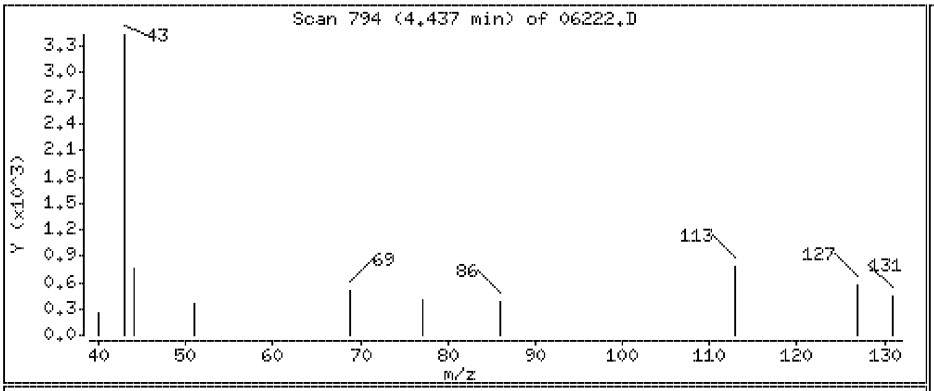
Operator: MJL

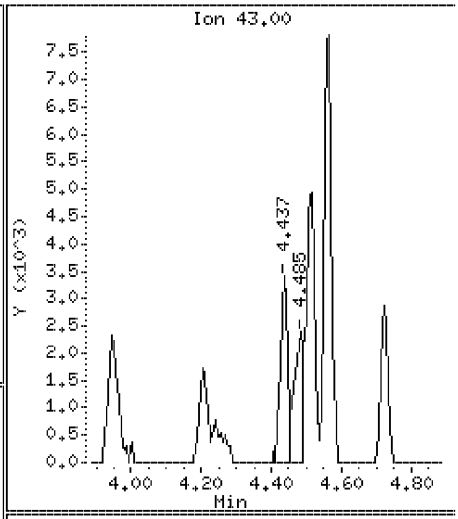
Column phase: J&W DB-5

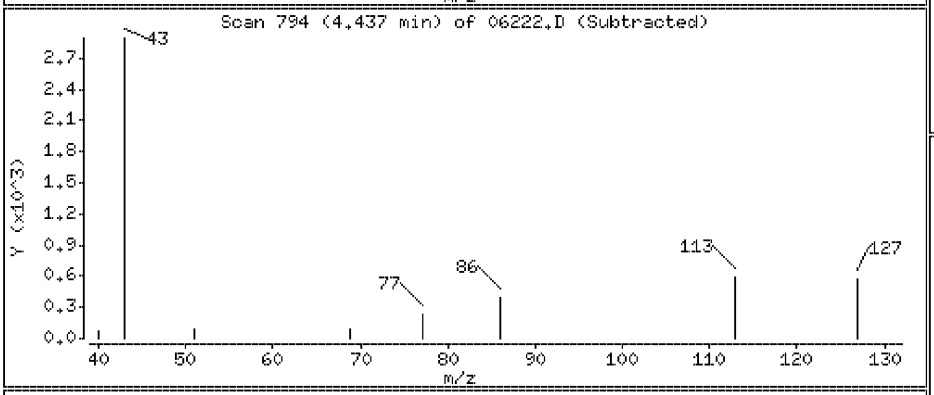
Column diameter: 0.32

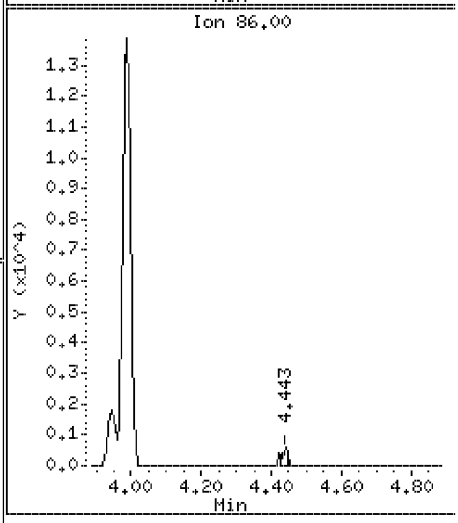
30 Vinyl Acetate

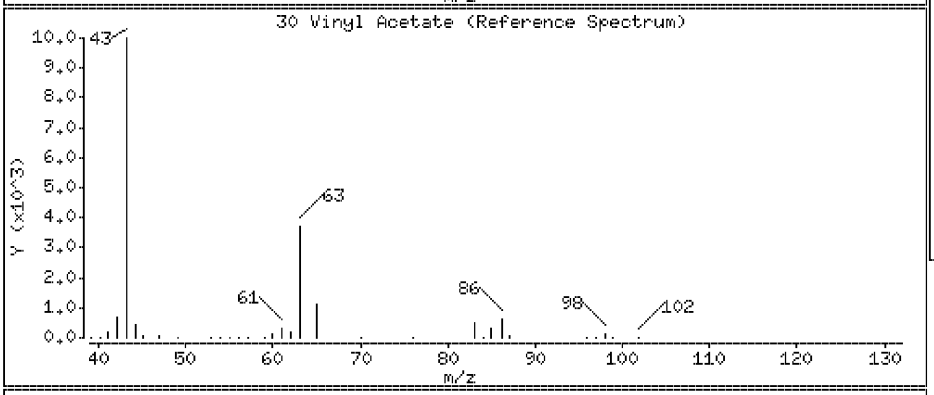
Concentration: 0.555 ppbv

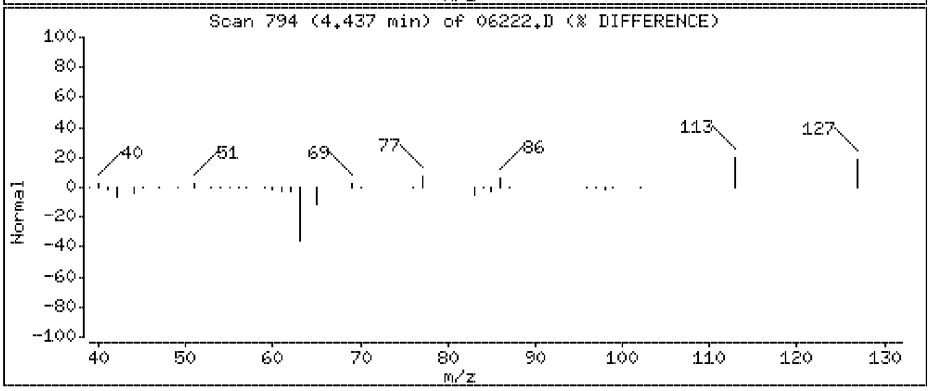












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

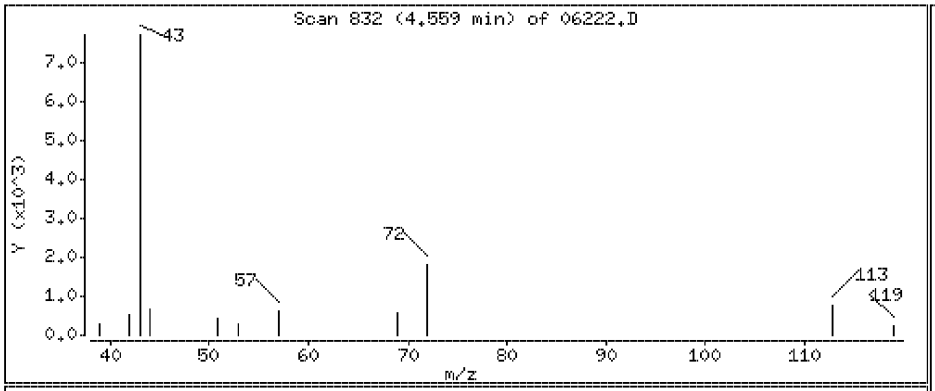
Operator: MJL

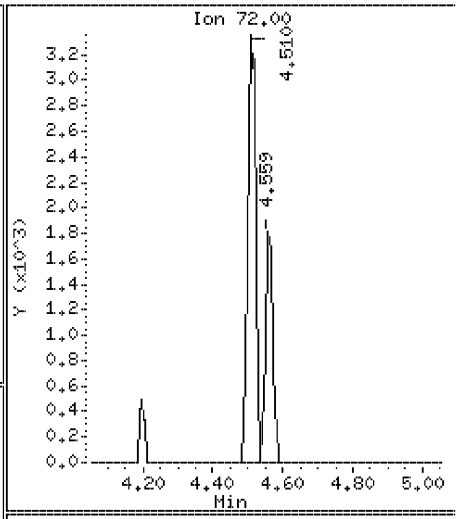
Column phase: J&W DB-5

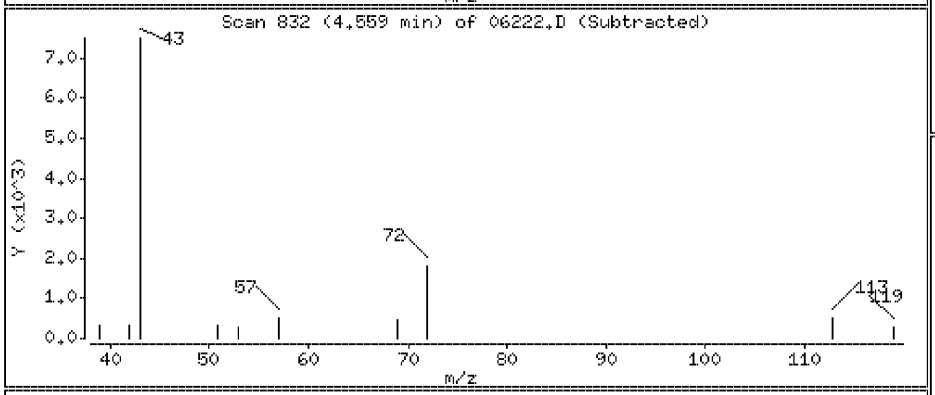
Column diameter: 0.32

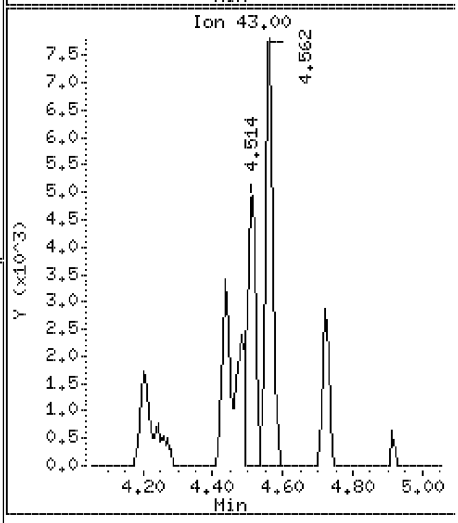
33 Methyl Ethyl Ketone

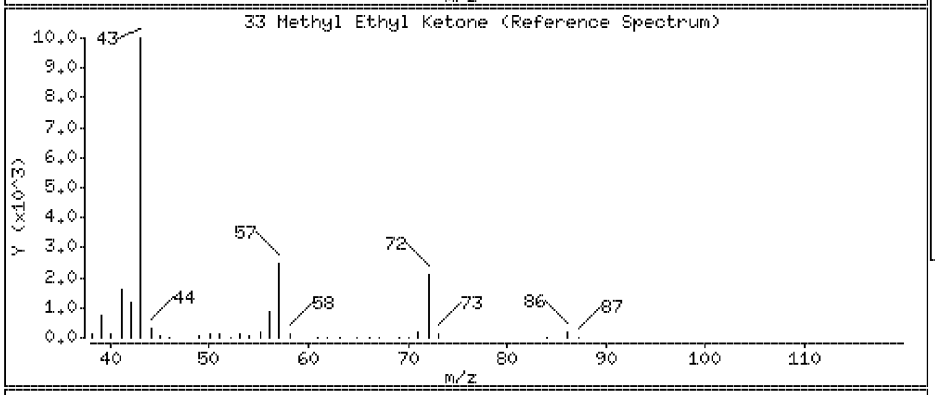
Concentration: 0.823 ppbv

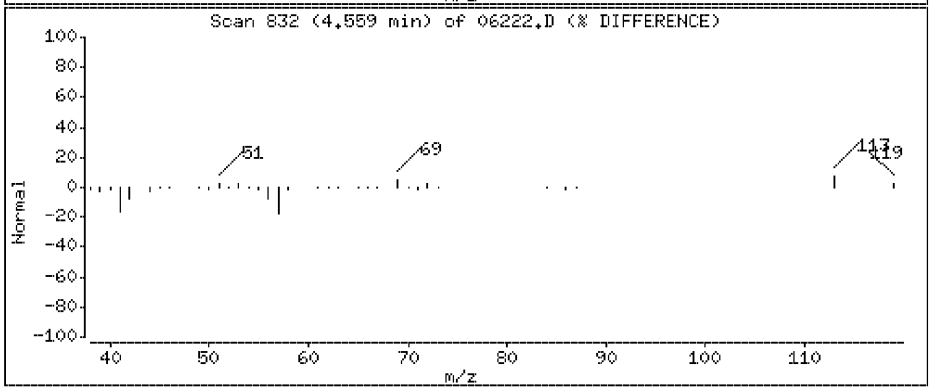












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

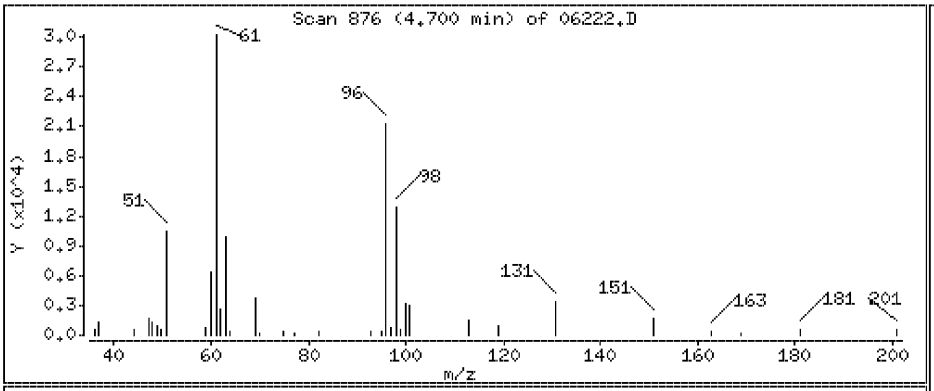
Operator: MJL

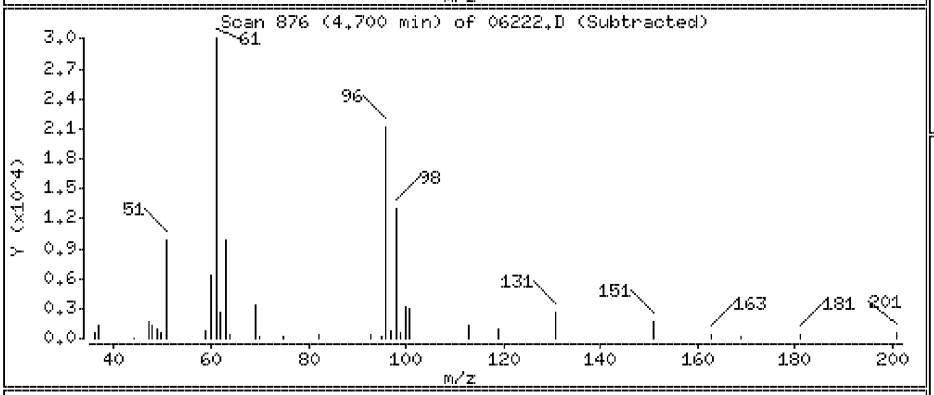
Column phase: J&W DB-5

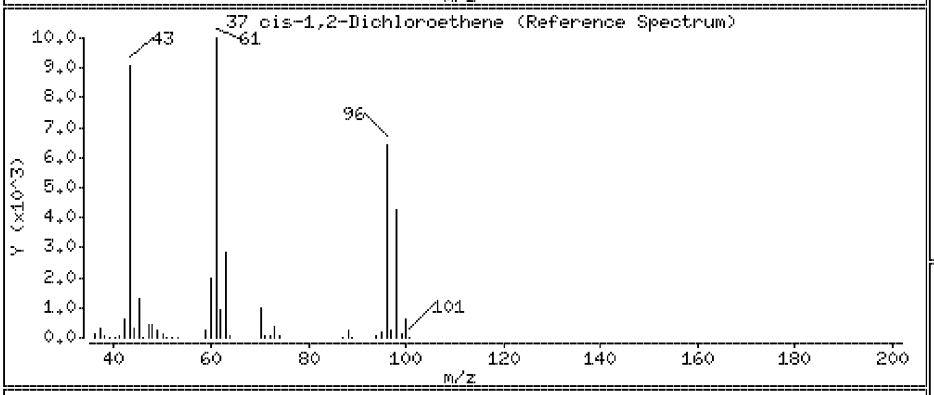
Column diameter: 0.32

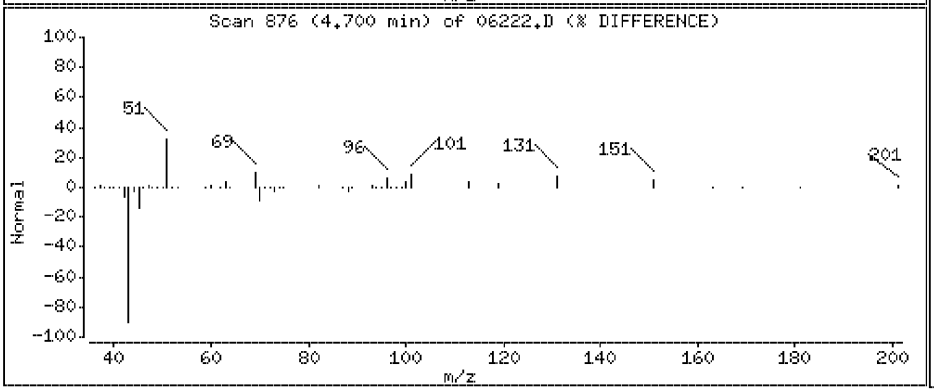
37 cis-1,2-Dichloroethene

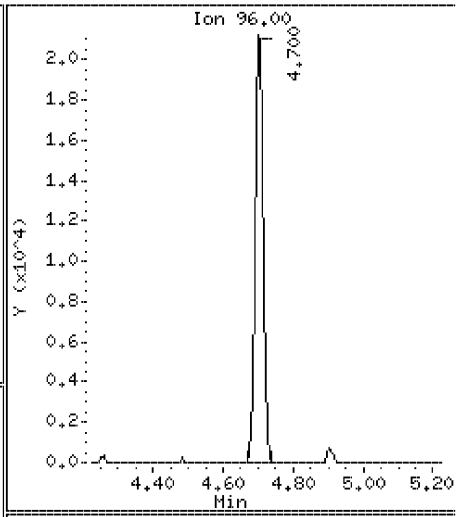
Concentration: 4.47 ppbv

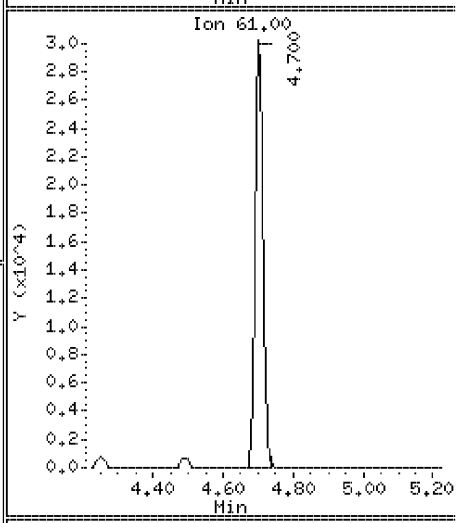


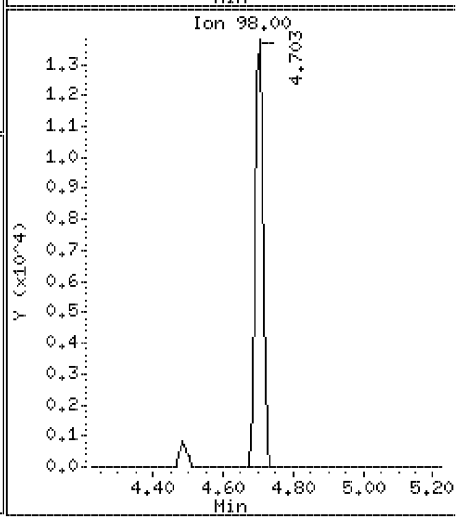












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

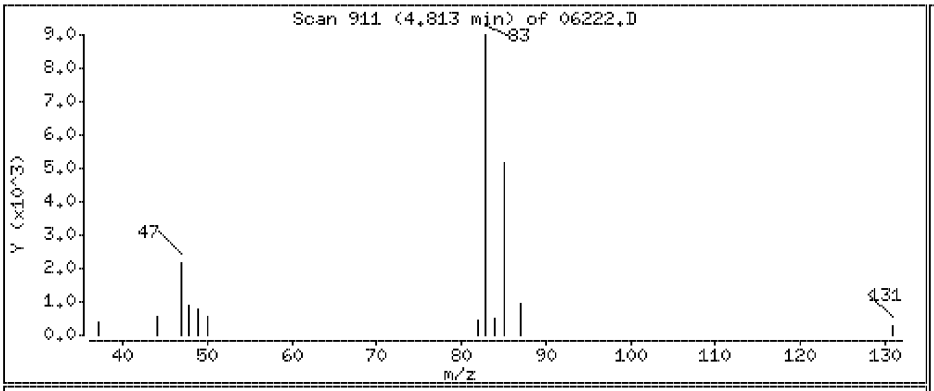
Operator: MJL

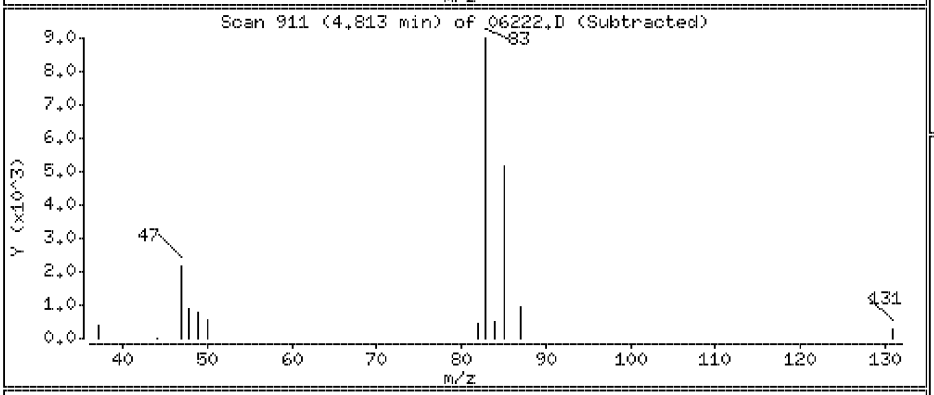
Column phase: J&W DB-5

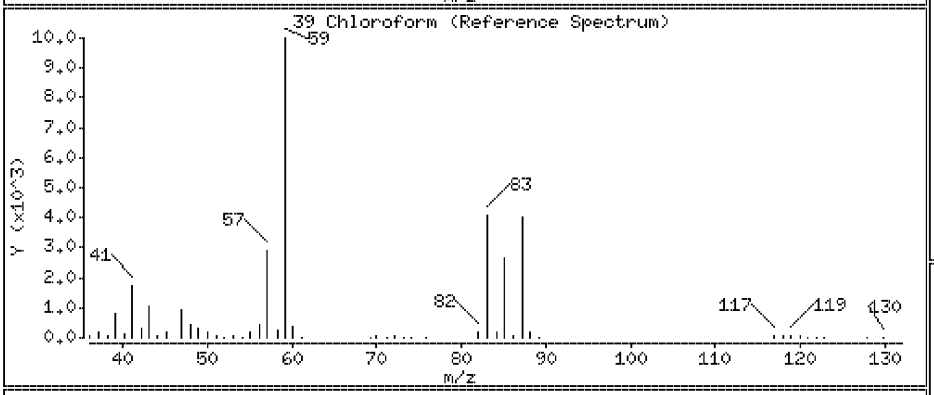
Column diameter: 0.32

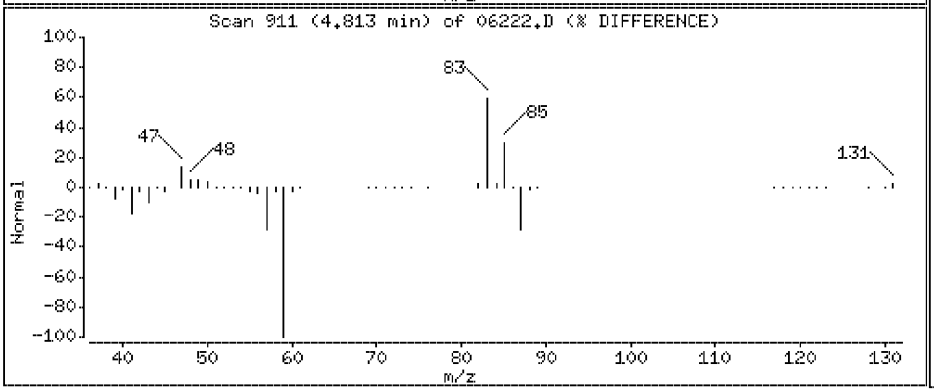
39 Chloroform

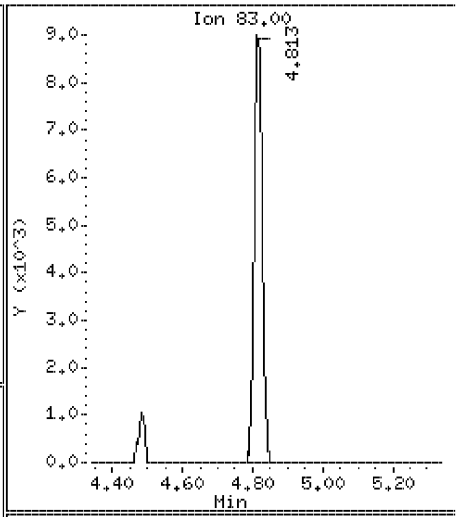
Concentration: 0.960 ppbv

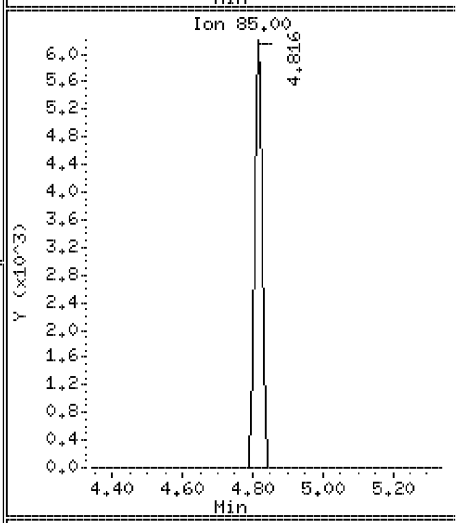


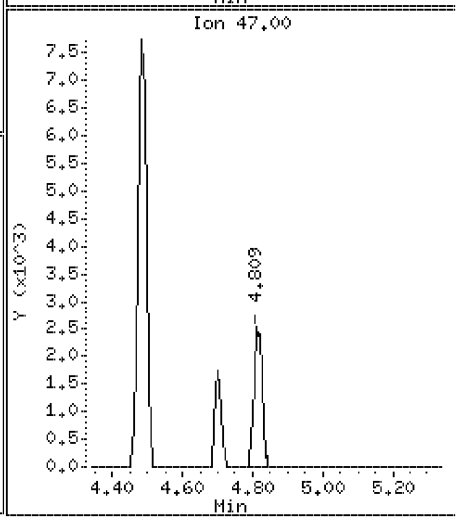












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

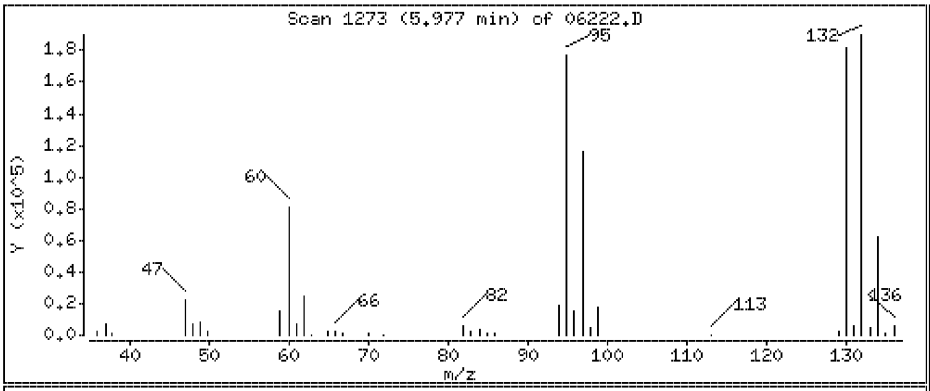
Operator: MJL

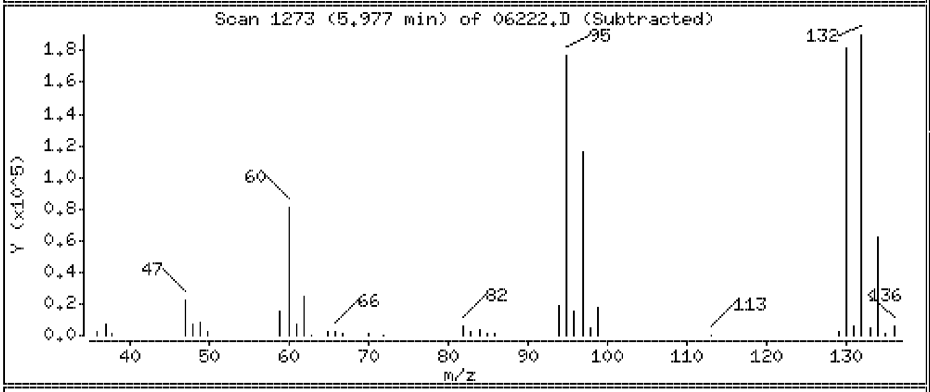
Column phase: J&W DB-5

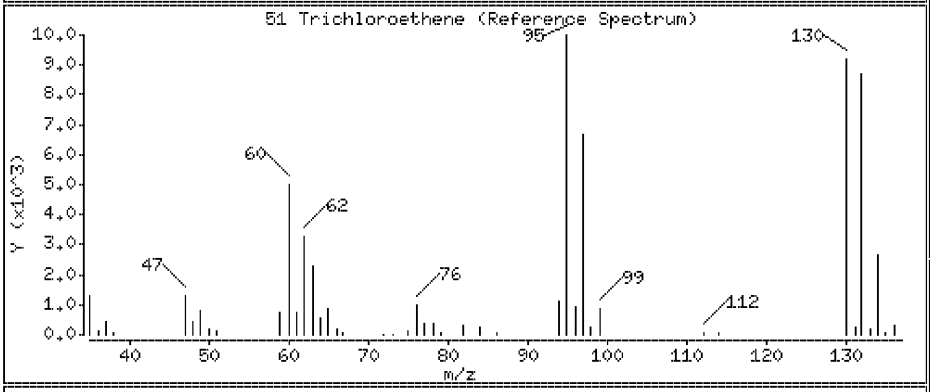
Column diameter: 0.32

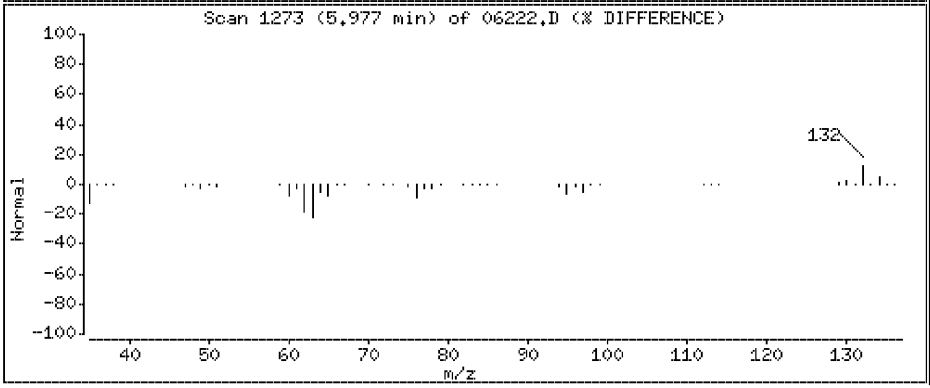
51 Trichloroethene

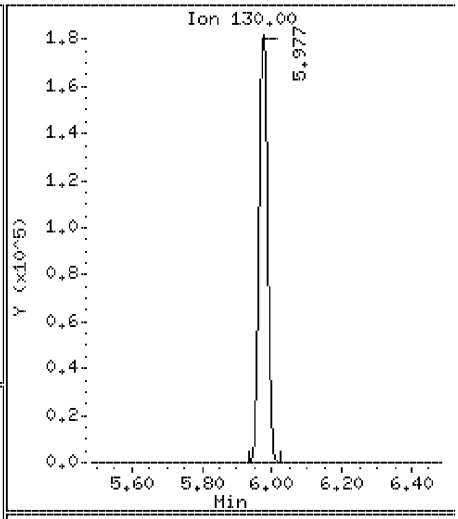
Concentration: 25.4 ppbv

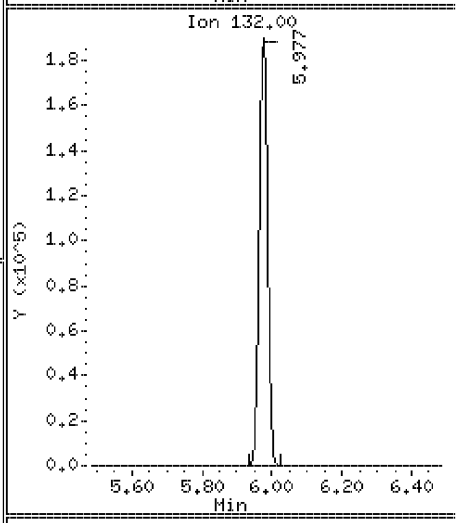


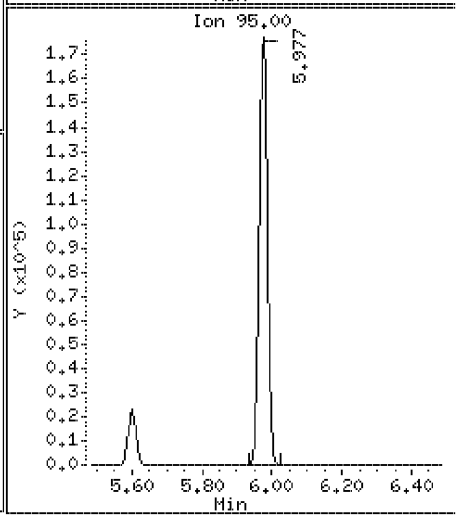












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

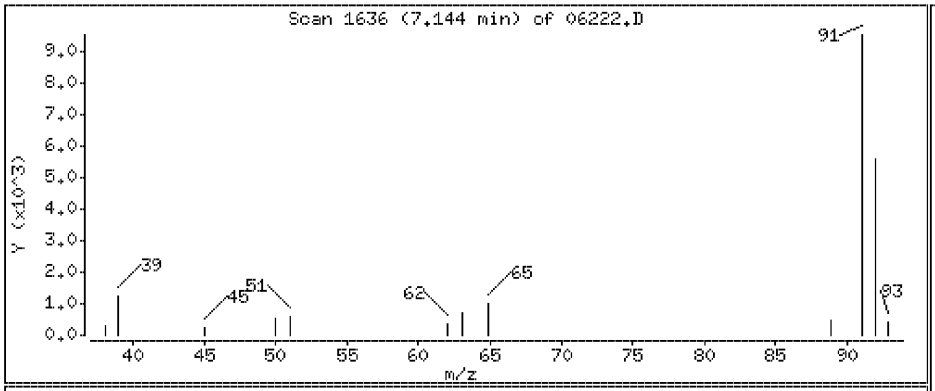
Operator: MJL

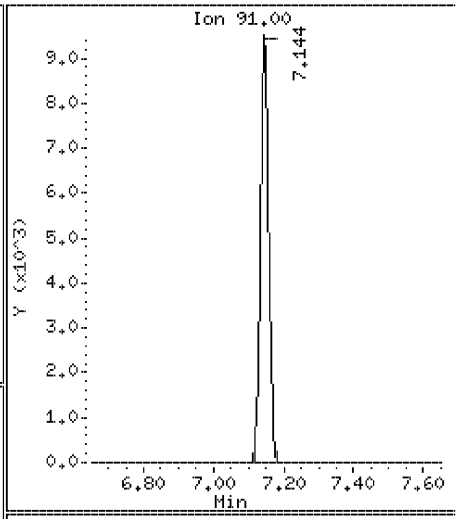
Column phase: J&W DB-5

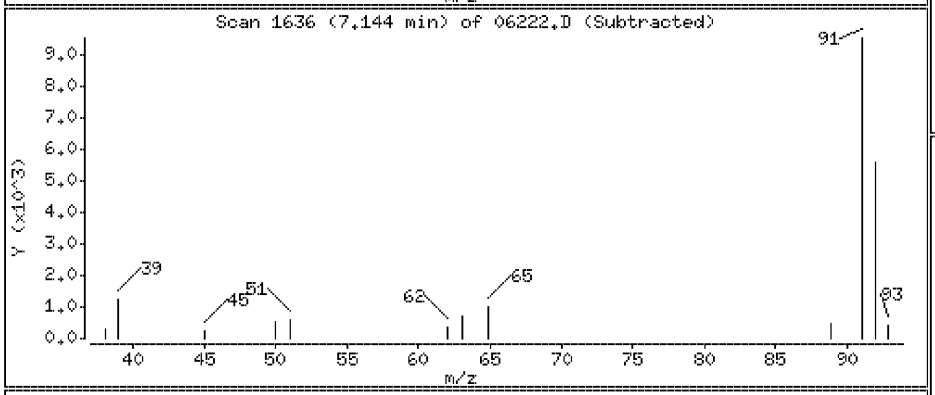
Column diameter: 0.32

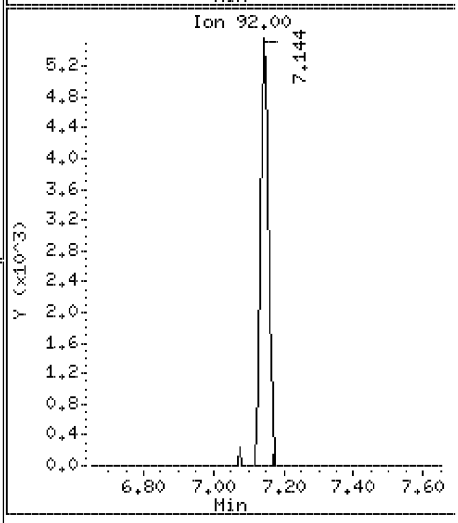
61 Toluene

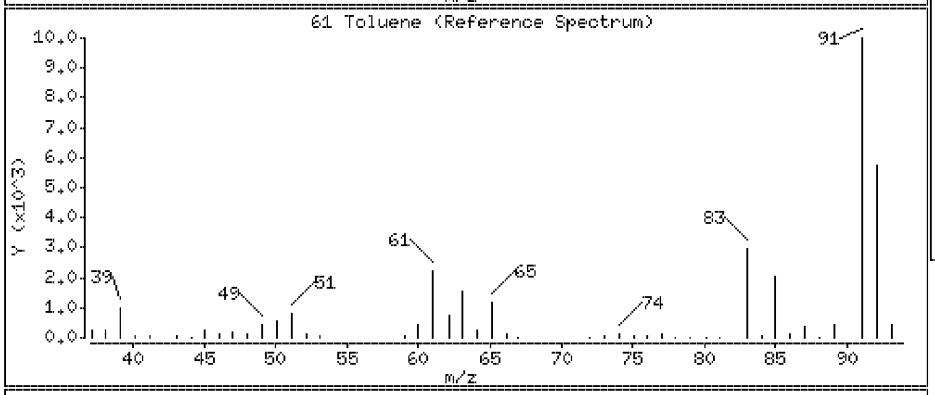
Concentration: 0.520 ppbv

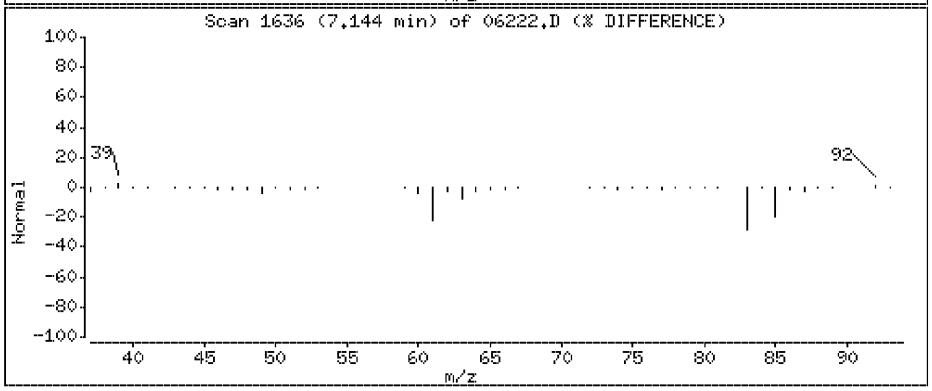












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

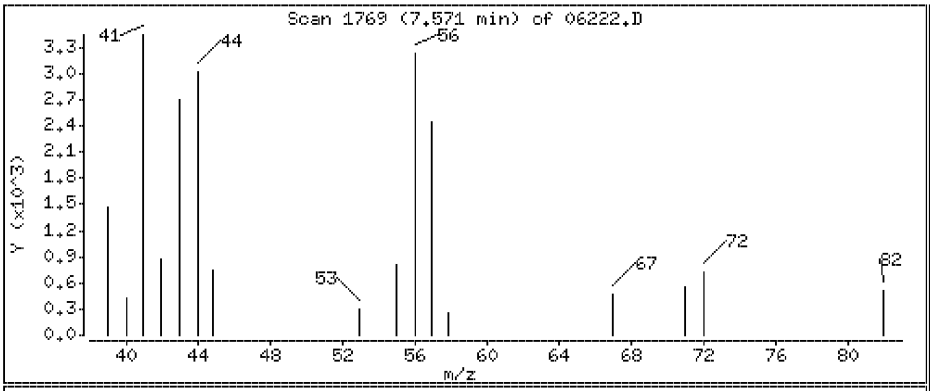
Operator: MJL

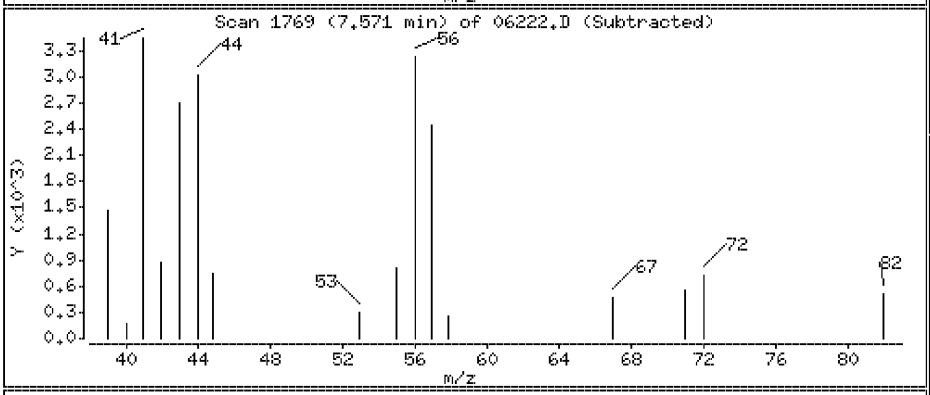
Column phase: J&W DB-5

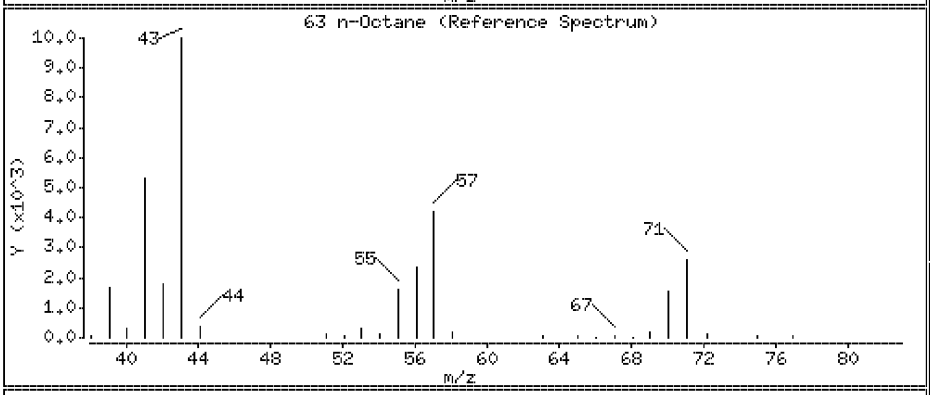
Column diameter: 0.32

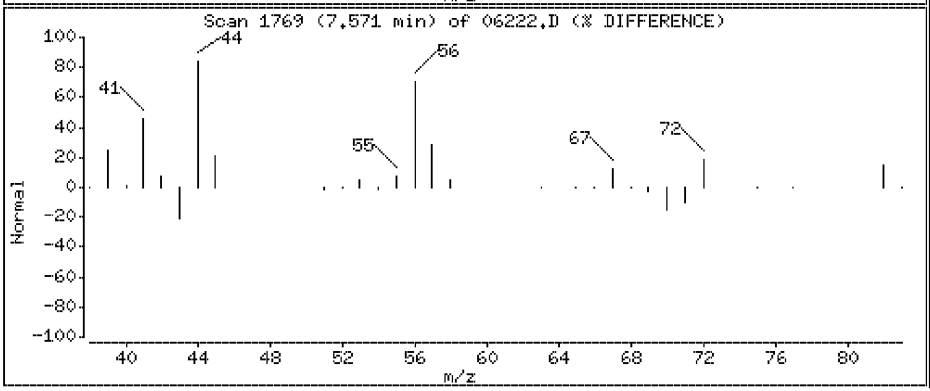
63 n-Octane

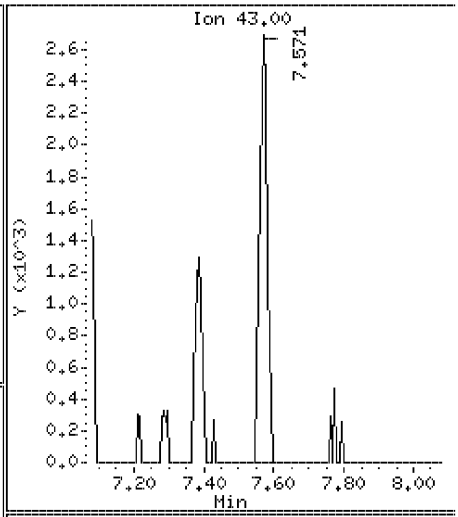
Concentration: 0.250 ppbv

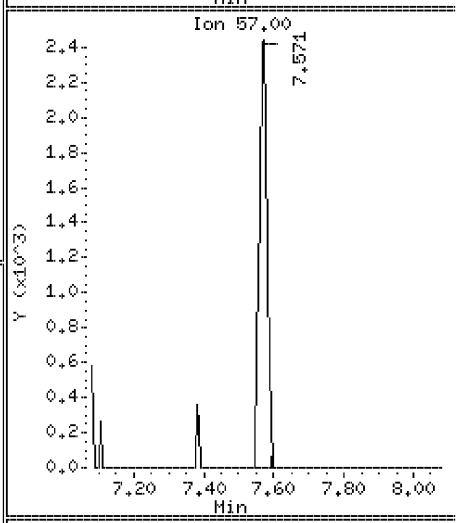


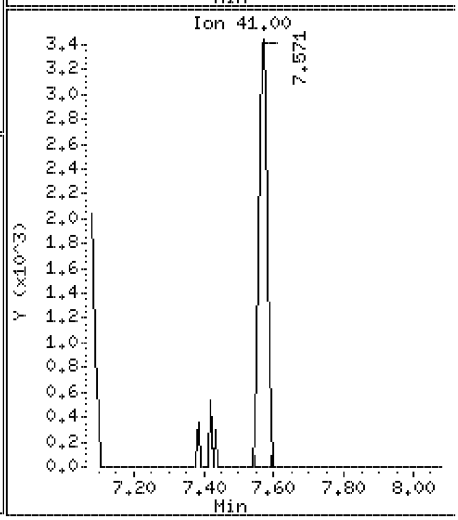












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

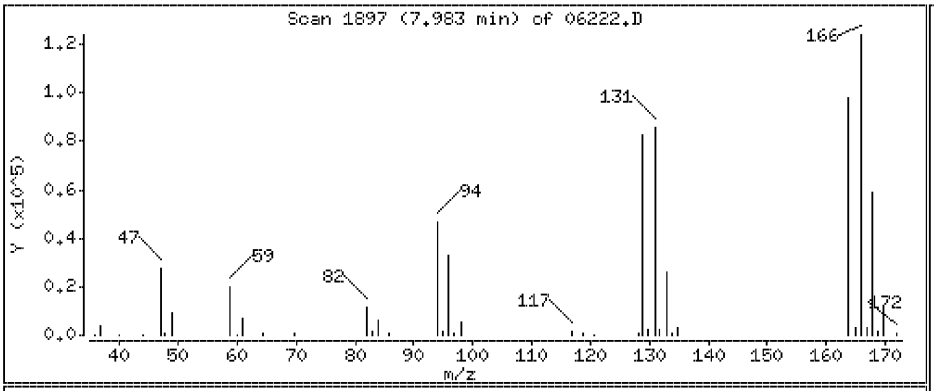
Operator: MJL

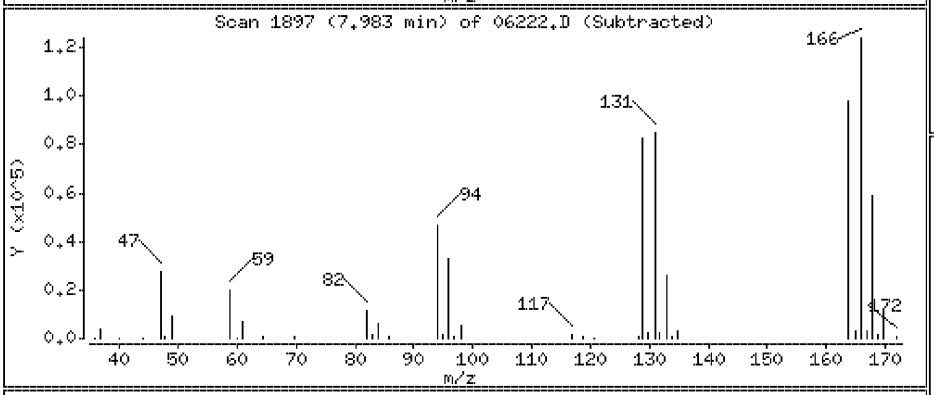
Column phase: J&W DB-5

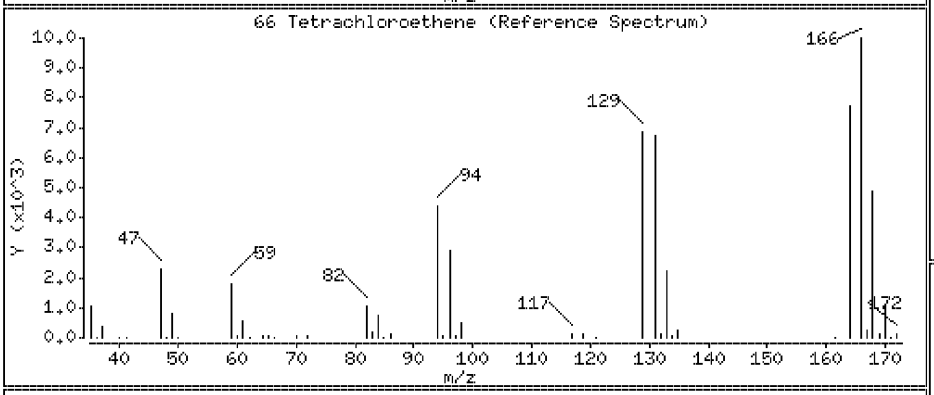
Column diameter: 0.32

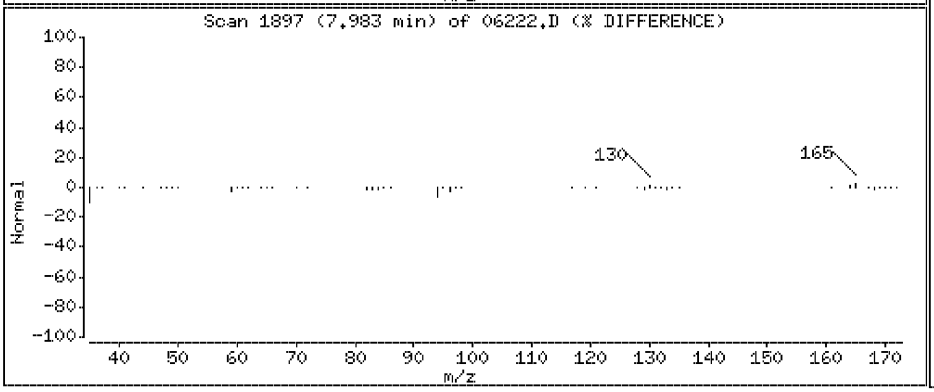
66 Tetrachloroethene

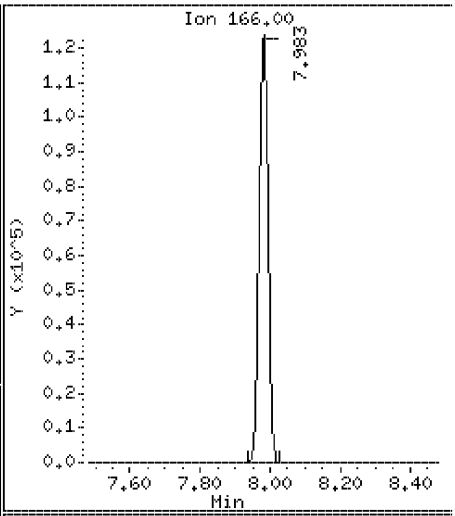
Concentration: 13.4 ppbv

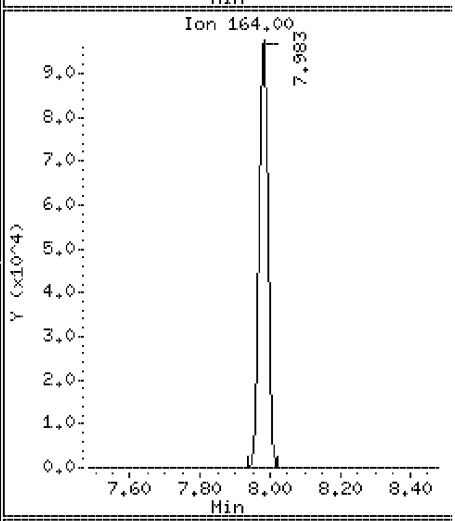


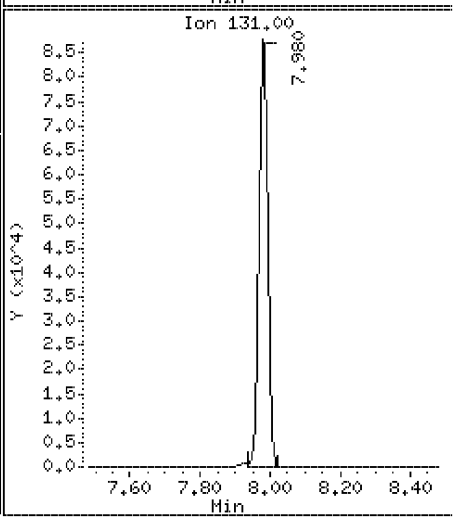












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06222.D

Date : 03-MAR-2017 18:26

Client ID:

Instrument: 10airB.i

Sample Info:

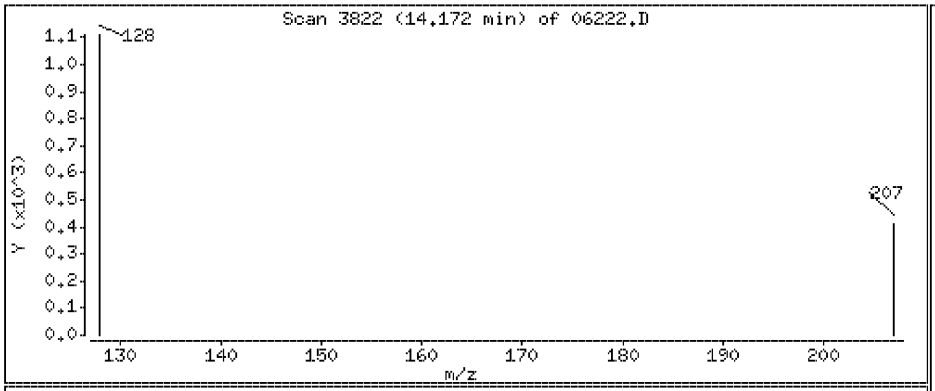
Operator: MJL

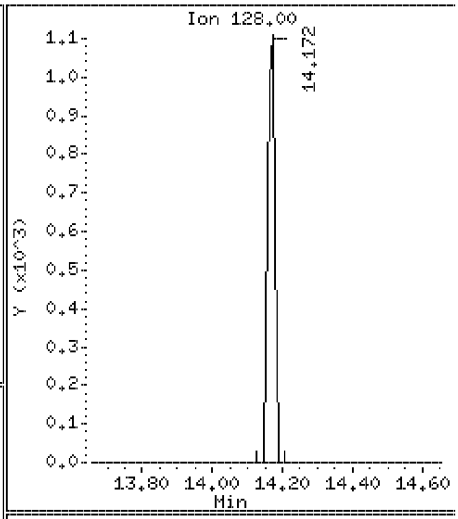
Column phase: J&W DB-5

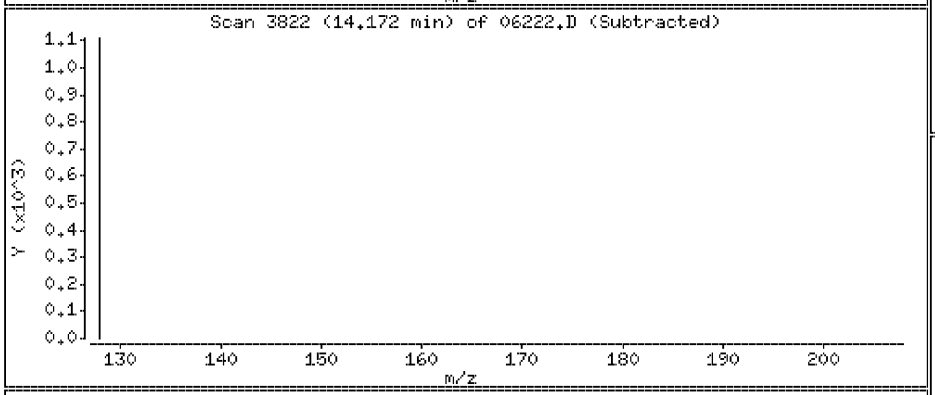
Column diameter: 0.32

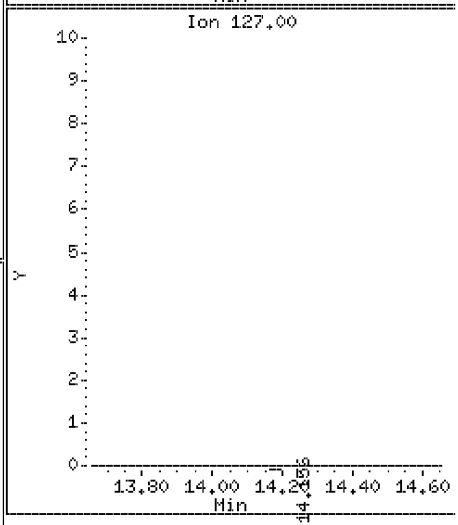
94 Naphthalene

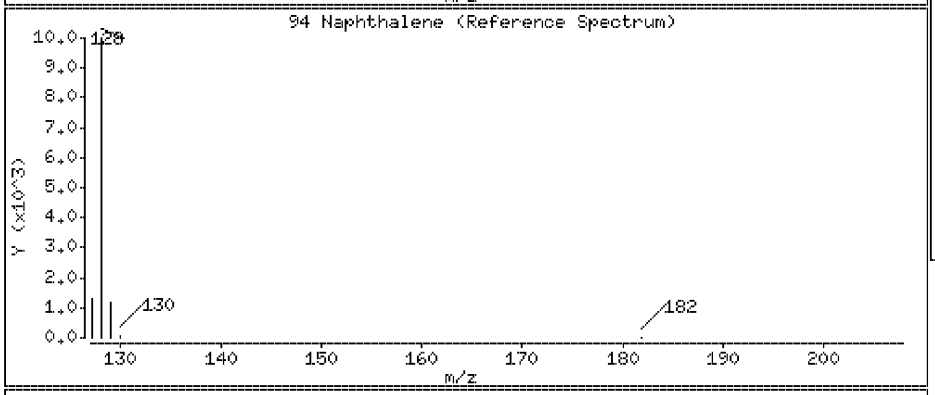
Concentration: 0.673 ppbv

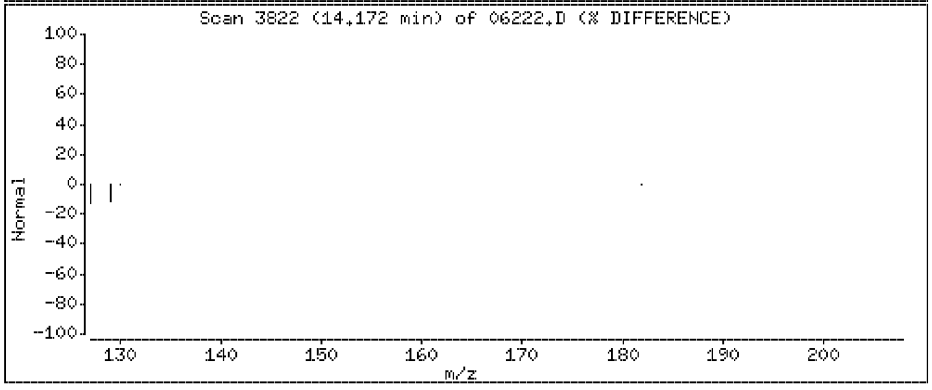






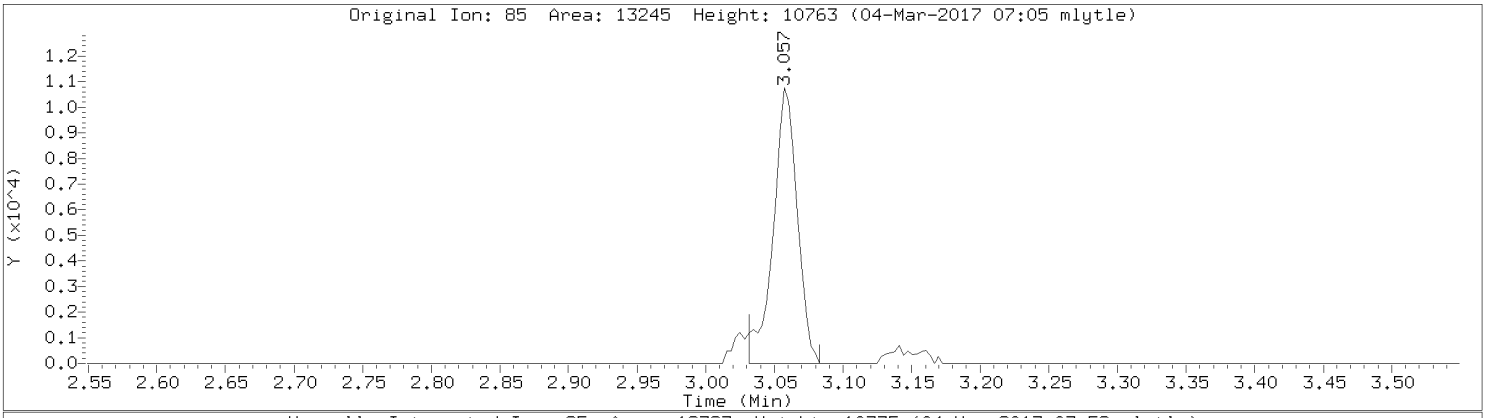


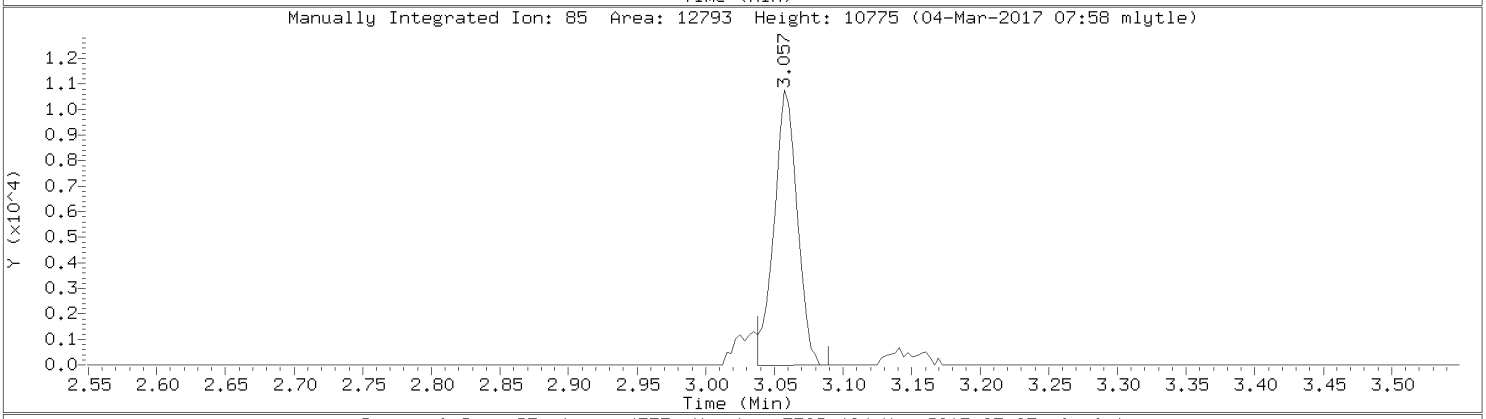


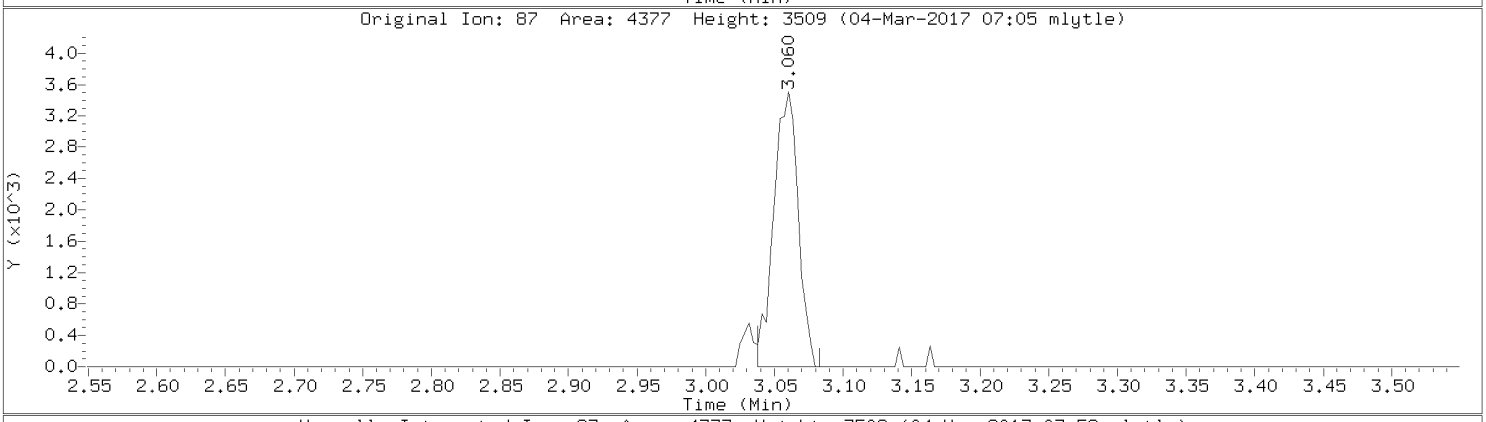


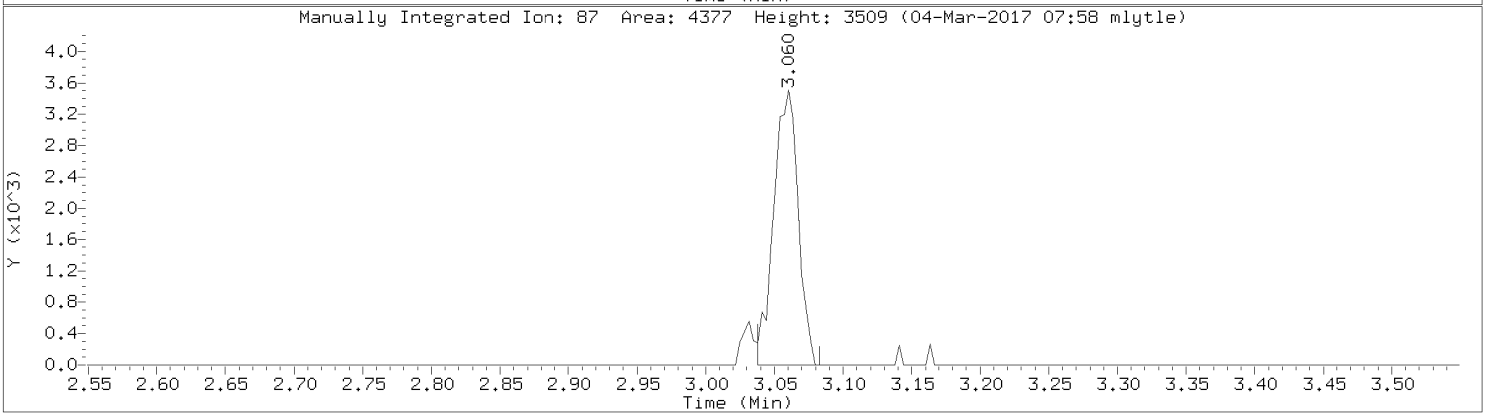
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06222.D
Injection Date: 03-MAR-2017 18:26
Instrument: 10airB.i
Lab Sample ID: 10379929004

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



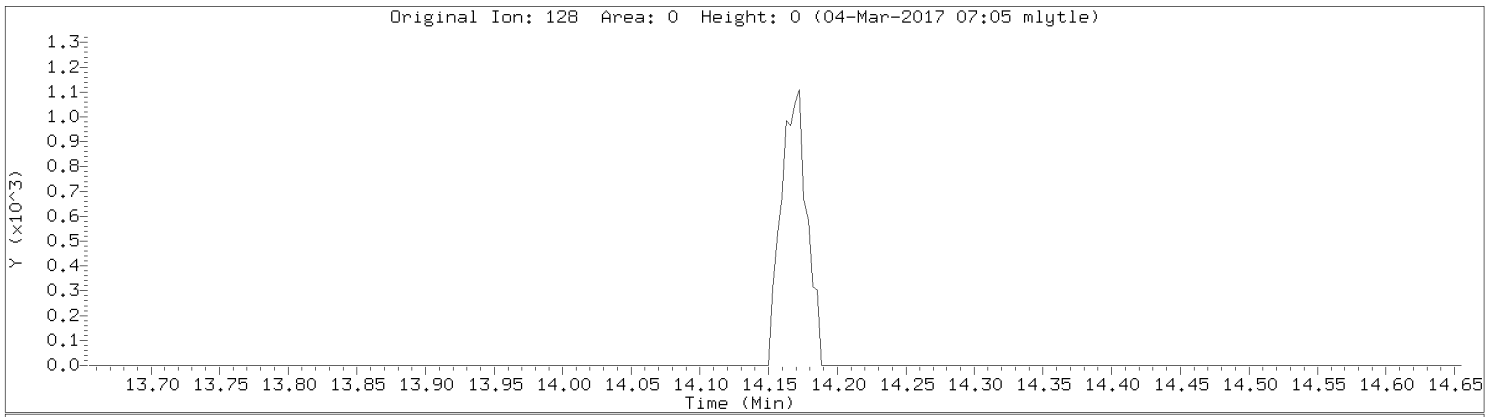


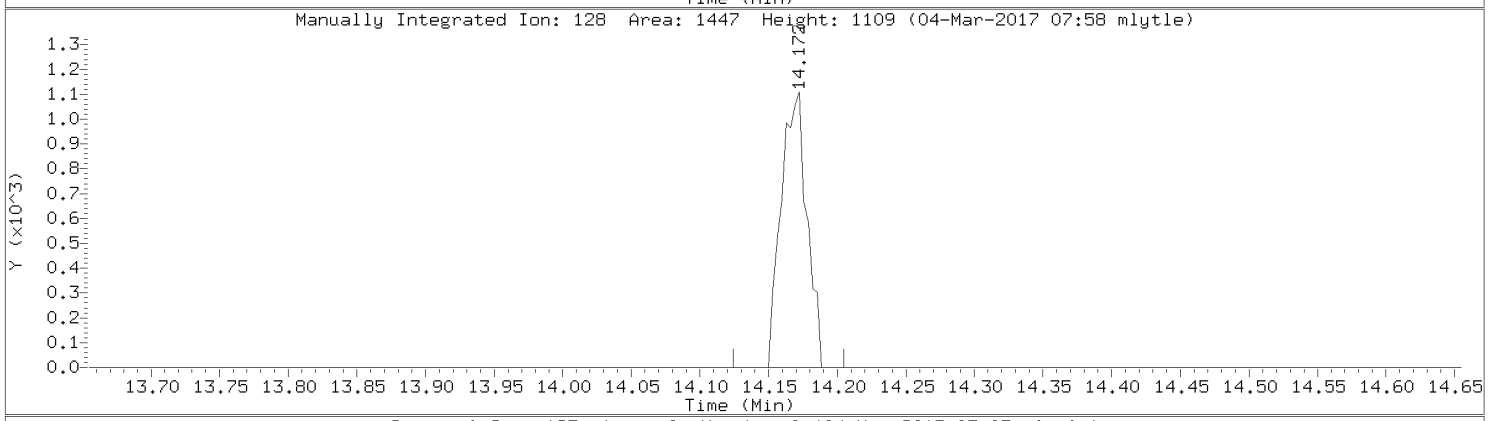


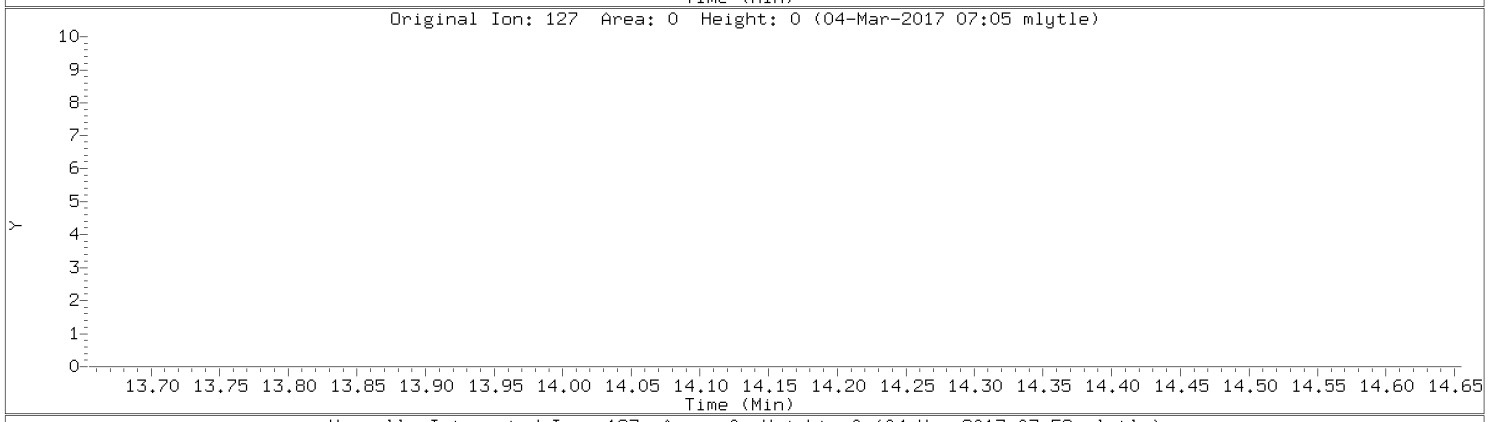


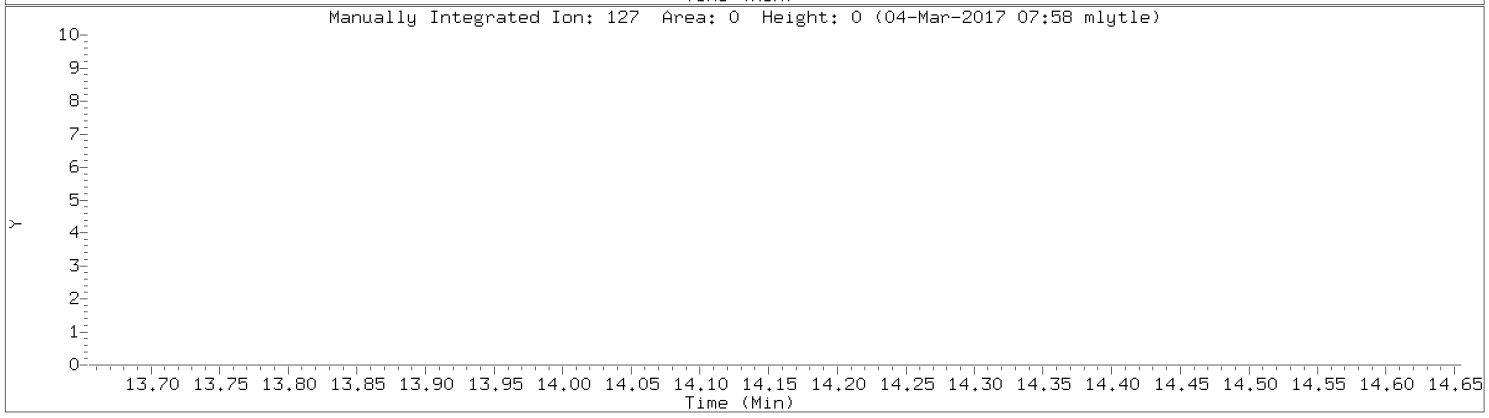
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06222.D
Injection Date: 03-MAR-2017 18:26
Instrument: 10airB.i
Lab Sample ID: 10379929004

Compound: Naphthalene
CAS Number: 91-20-3



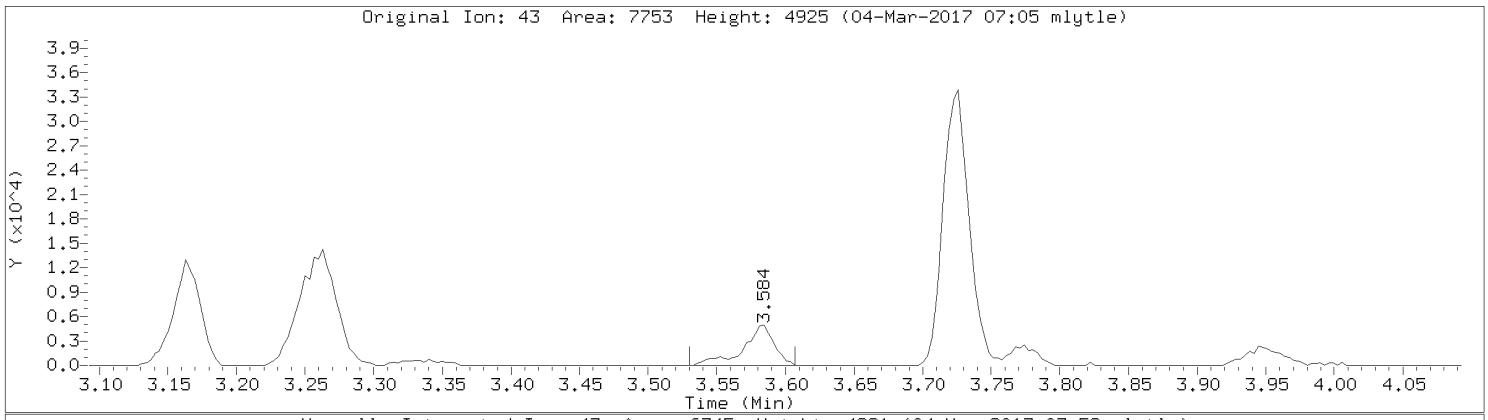


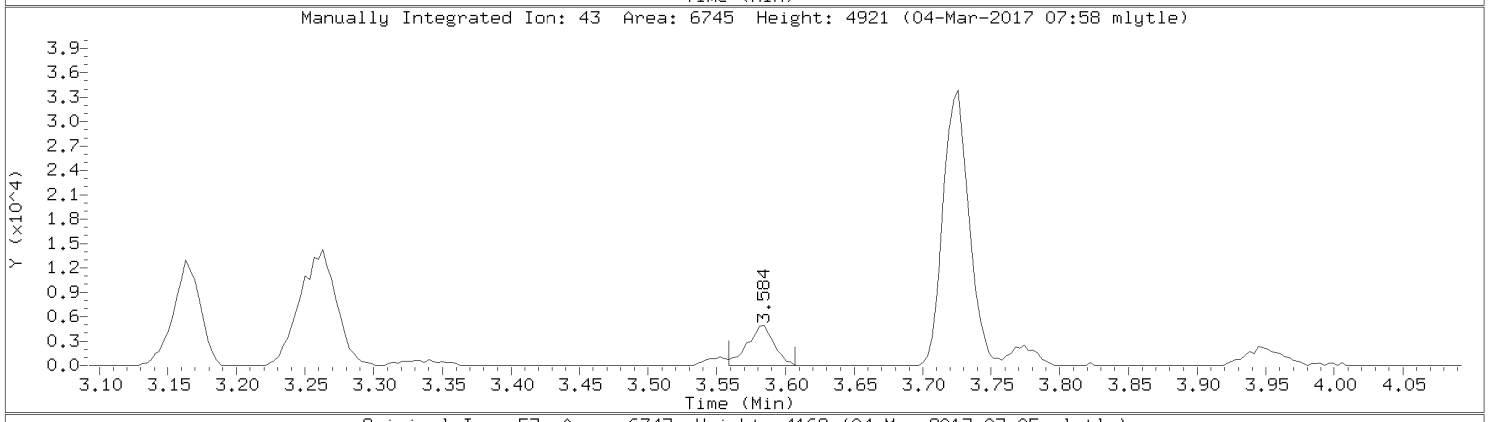


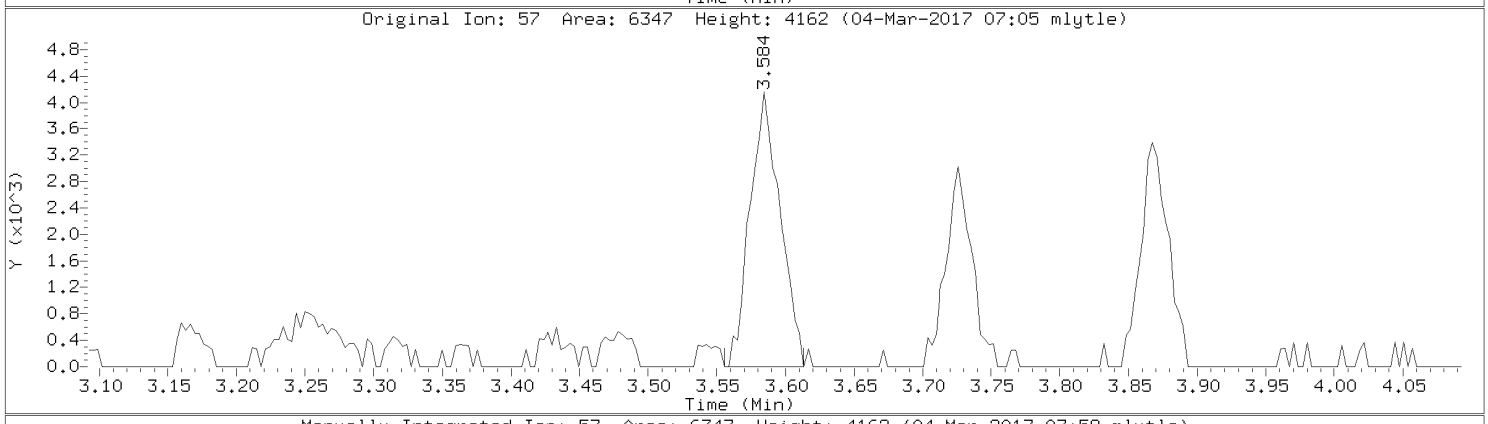


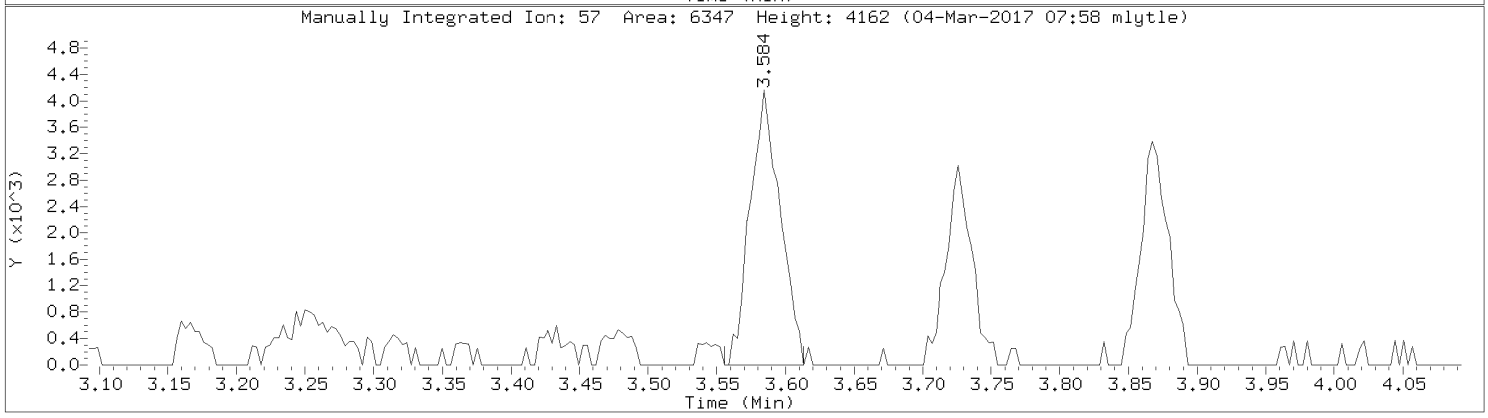
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06222.D
Injection Date: 03-MAR-2017 18:26
Instrument: 10airB.i
Lab Sample ID: 10379929004

Compound: Isopentane
CAS Number: 78-78-4

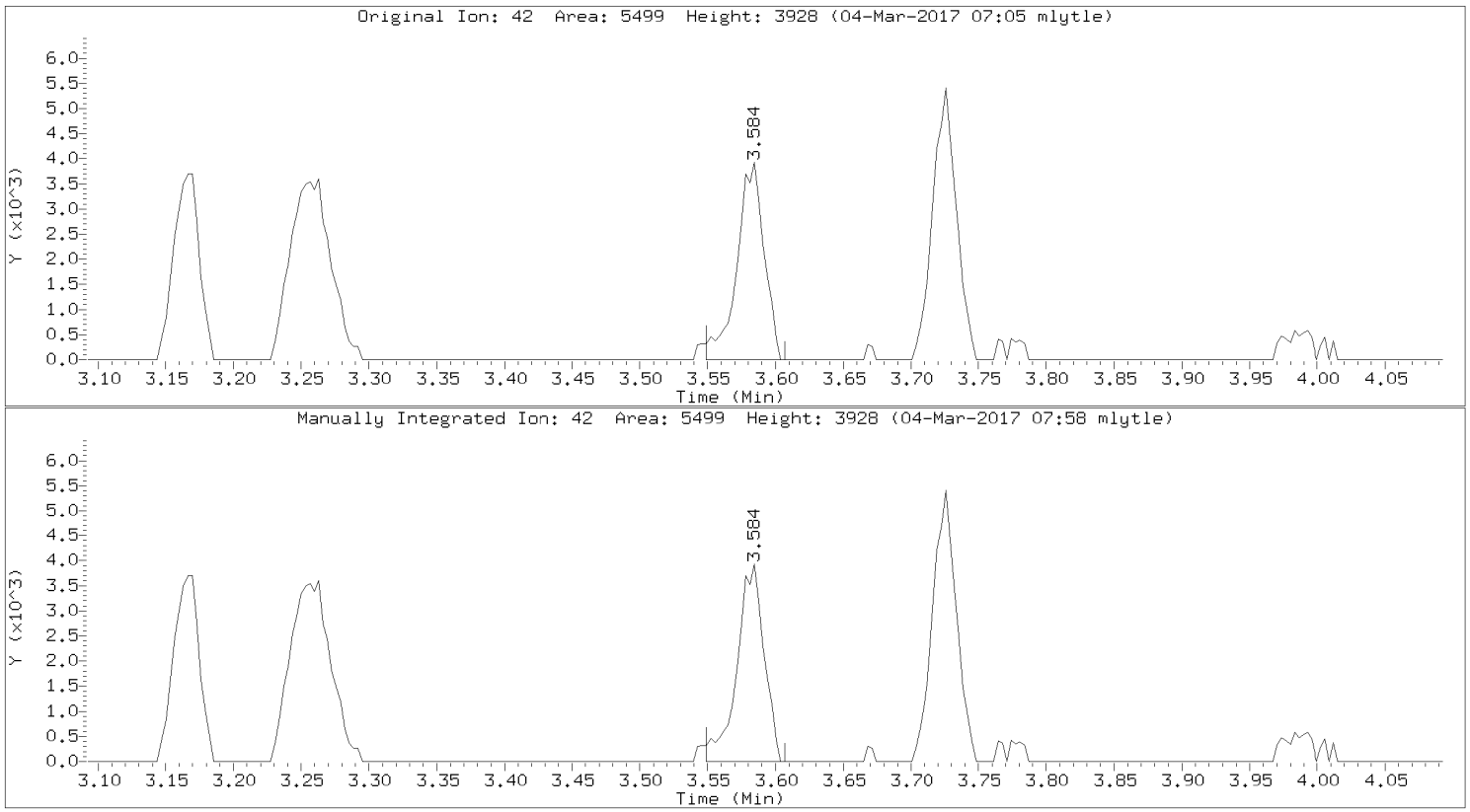






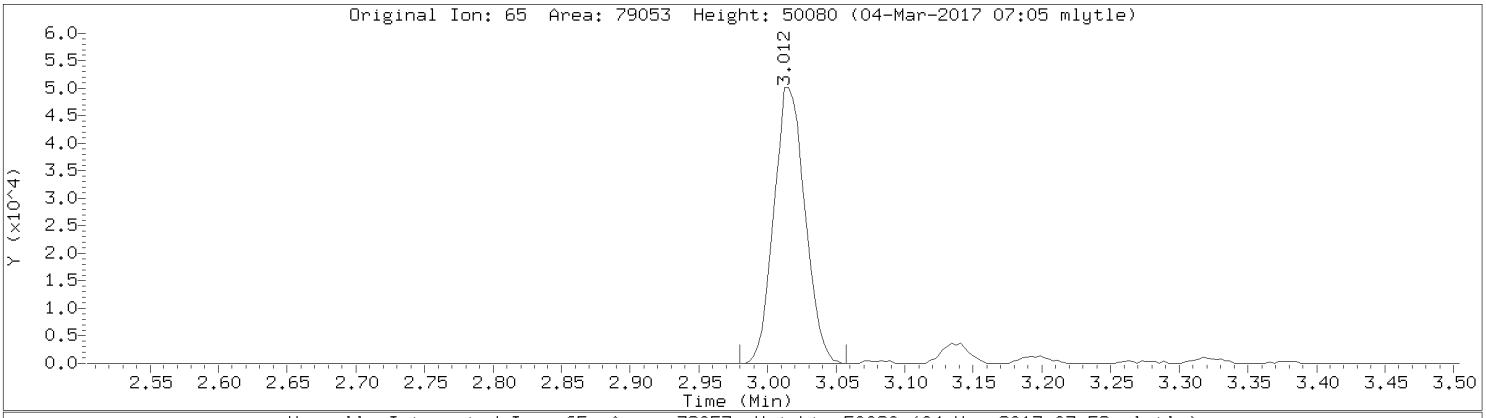


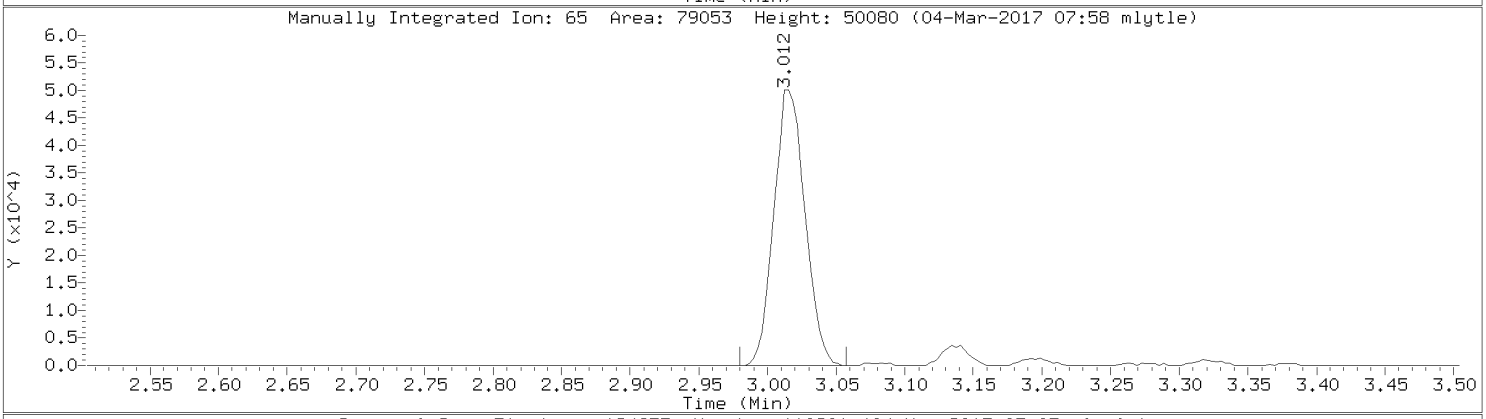
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06222.D
Injection Date: 03-MAR-2017 18:26
Instrument: 10airB.i
Lab Sample ID: 10379929004

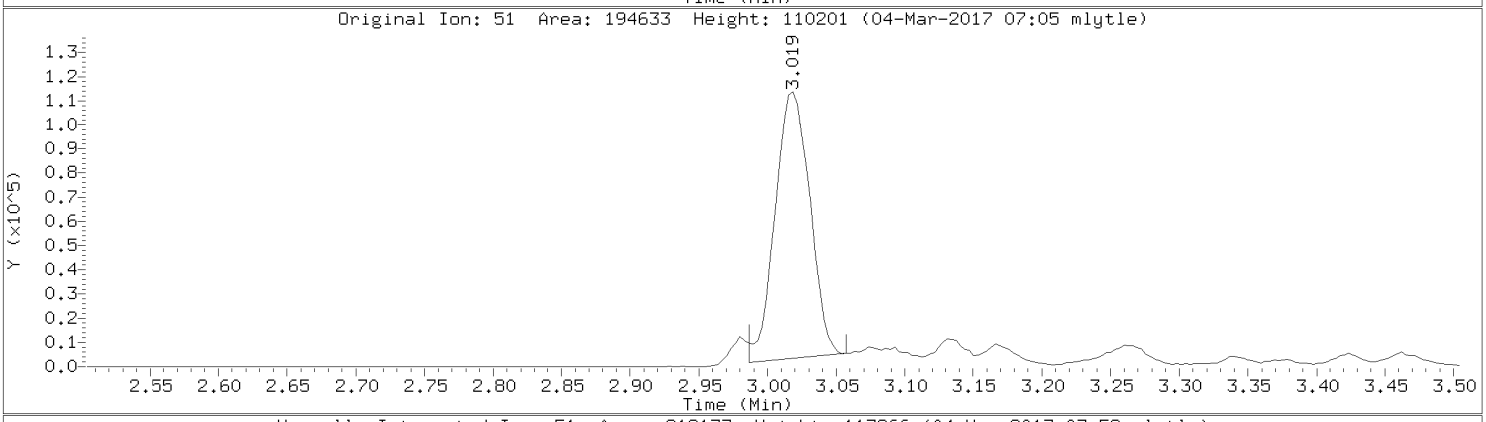


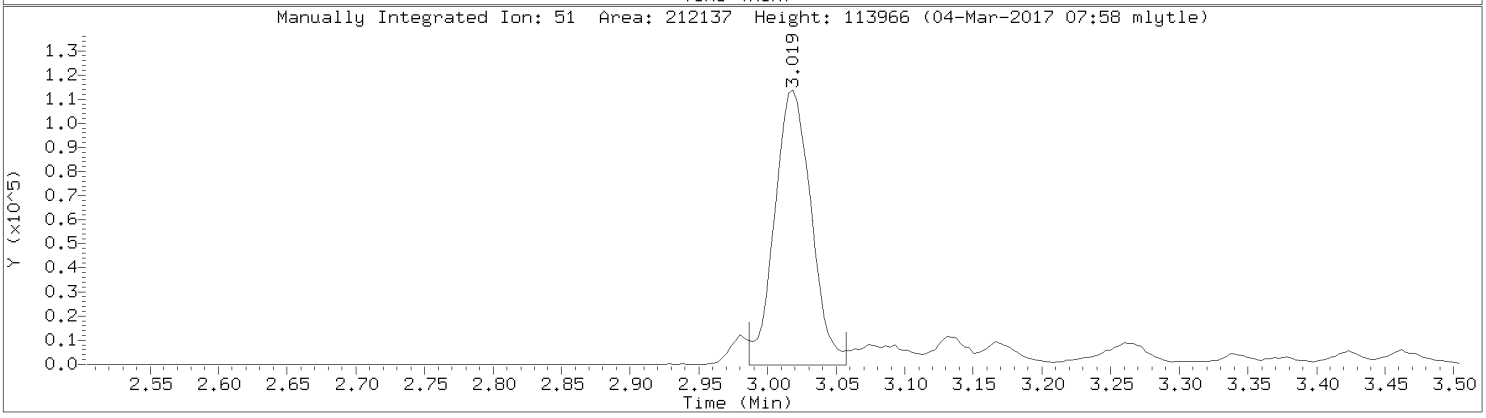
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06222.D
Injection Date: 03-MAR-2017 18:26
Instrument: 10airB.i
Lab Sample ID: 10379929004

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

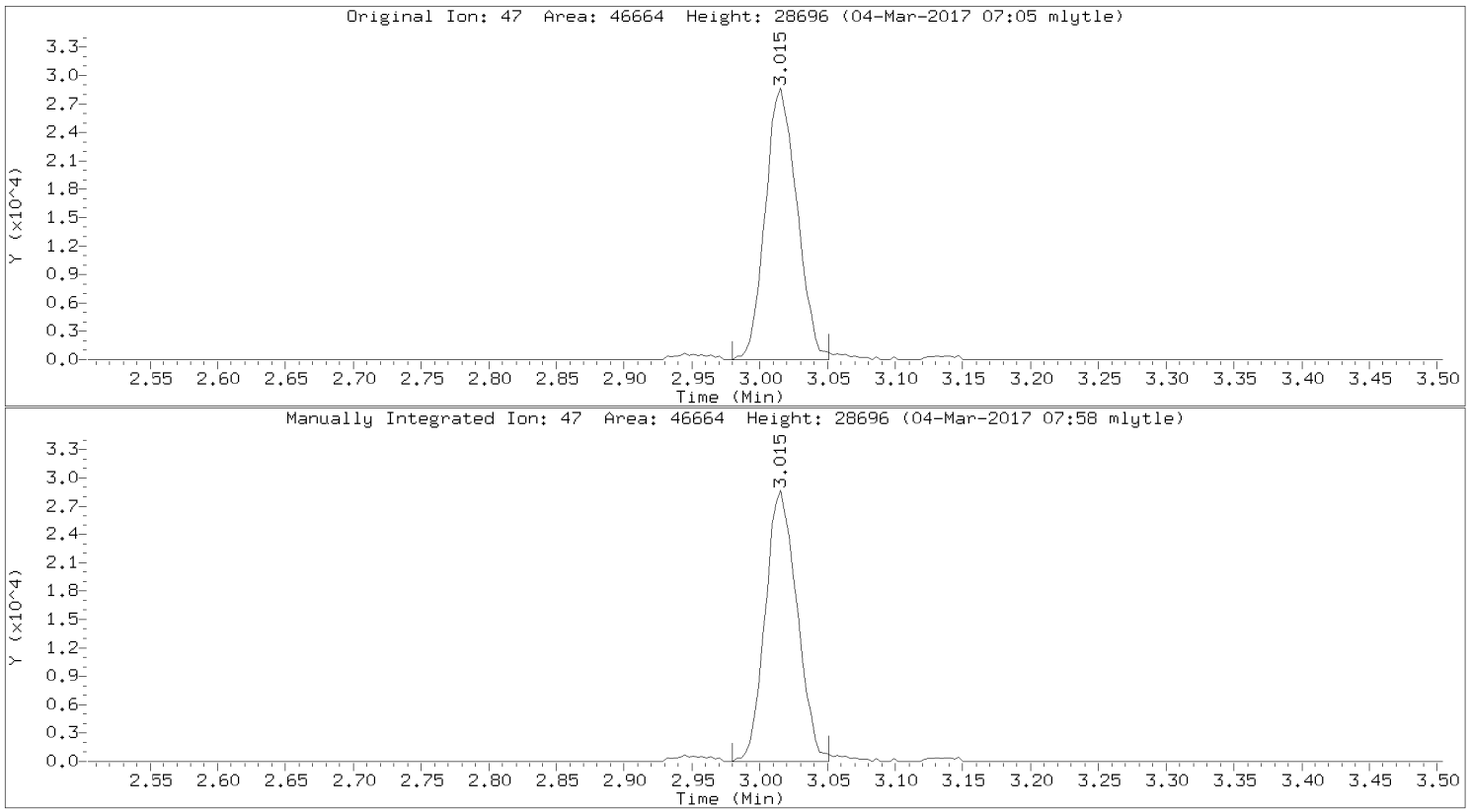








Data File: \\192.168.10.12\chem\10airB.i\030317.b/06222.D
Injection Date: 03-MAR-2017 18:26
Instrument: 10airB.i
Lab Sample ID: 10379929004



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_40_20170221 **Lab ID: 10379929005** Collected: 02/21/17 12:37 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**8.8**	ug/m3	4.2	1.5	1.75		03/03/17 18:58	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 18:58	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/03/17 18:58	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 18:58	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 18:58	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 18:58	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 18:58	106-99-0	
2-Butanone (MEK)	**2.3J**	ug/m3	5.2	0.40	1.75		03/03/17 18:58	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 18:58	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/03/17 18:58	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 18:58	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/03/17 18:58	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 18:58	75-00-3	
Chloroform	**6.2**	ug/m3	0.87	0.33	1.75		03/03/17 18:58	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/03/17 18:58	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 18:58	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 18:58	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 18:58	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 18:58	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 18:58	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 18:58	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 18:58	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 18:58	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.8	0.84	1.75		03/03/17 18:58	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 18:58	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 18:58	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 18:58	75-35-4	
cis-1,2-Dichloroethene	**29.2**	ug/m3	1.4	0.43	1.75		03/03/17 18:58	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/03/17 18:58	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 18:58	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 18:58	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 18:58	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 18:58	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 18:58	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 18:58	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/03/17 18:58	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/03/17 18:58	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 18:58	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/03/17 18:58	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 18:58	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 18:58	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 18:58	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 18:58	108-87-2	
Methylene Chloride	**19.1**	ug/m3	6.2	0.95	1.75		03/03/17 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 18:58	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 18:58	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D
Report Date: 04-Mar-2017 08:04

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030317.b\06223.D
Lab Smp Id: 10379929005
Inj Date : 03-MAR-2017 18:58
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Meth Date : 04-Mar-2017 07:02 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 23
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.018	3.005	(0.539)	76229	10.7750	18.9(QM)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.050	(0.546)	12246	0.28072	0.491	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.552	3.542	(0.634)	3746	0.84484	1.48	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.661	3.671	(0.653)	18565	0.56116	0.982	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.725	3.719	(0.665)	39974	2.08780	3.65	
19	Isopropyl Alcohol	45	3.780	3.764	(0.675)	4839	0.24781	0.434(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.947	3.944	(0.705)	174339	6.97840	12.2	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D
Report Date: 04-Mar-2017 08:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	4.002	(0.711)	41705	3.08612	5.40	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.439	4.388	(0.792)	4824	0.33181	0.581	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.487	(0.800)	365496	9.52006	9.52	
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.814)	2056	0.43063	0.754	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.703	4.725	(0.839)	50001	4.14545	7.25(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.859)	17913	0.71653	1.25	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.603	5.609	(1.000)	1206720	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.976	5.986	(1.067)	411895	20.3153	35.6	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.072	(1.262)	1092977	10.1197	10.1	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.147	7.153	(1.275)	7540	0.15471	0.271	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.580	(0.876)	3549	0.12487	0.219(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.982	(0.924)	282494	9.79031	17.1	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	830964	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D
Report Date: 04-Mar-2017 08:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	436076	9.52651	9.53
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	14.169	14.156	(1.640)	1782	0.39200	0.686(M)
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D
Report Date: 04-Mar-2017 08:04

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06223.D
Lab Smp Id: 10379929005
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Misc Info: 27830

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

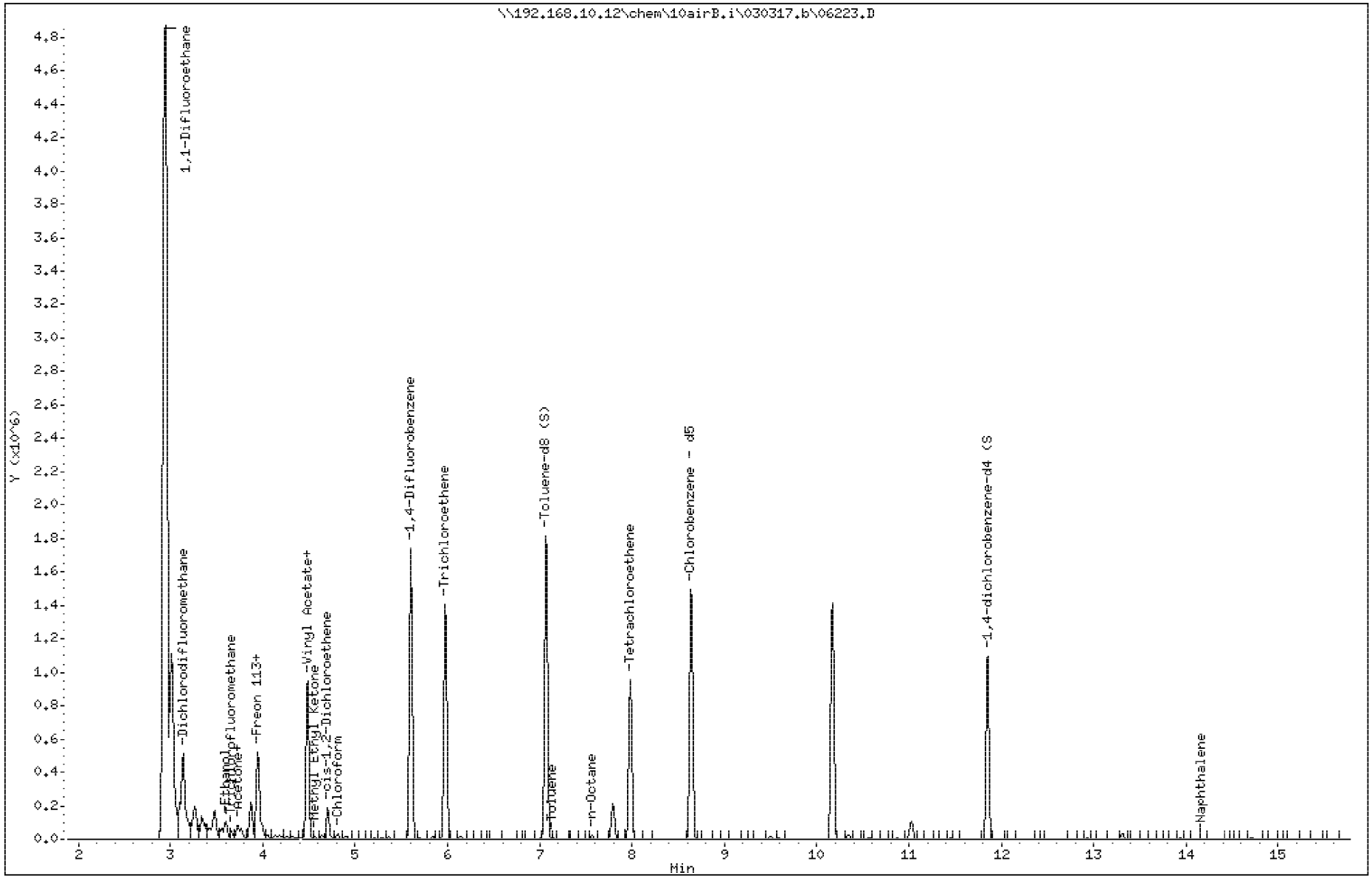
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1206720	-14.67
67 Chlorobenzene - d	951026	570616	1331436	830964	-12.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D
Date : 03-MAR-2017 18:58
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

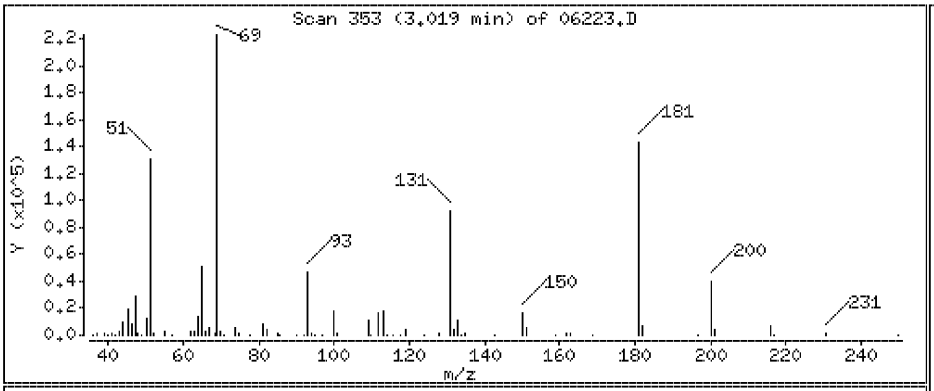
Operator: MJL

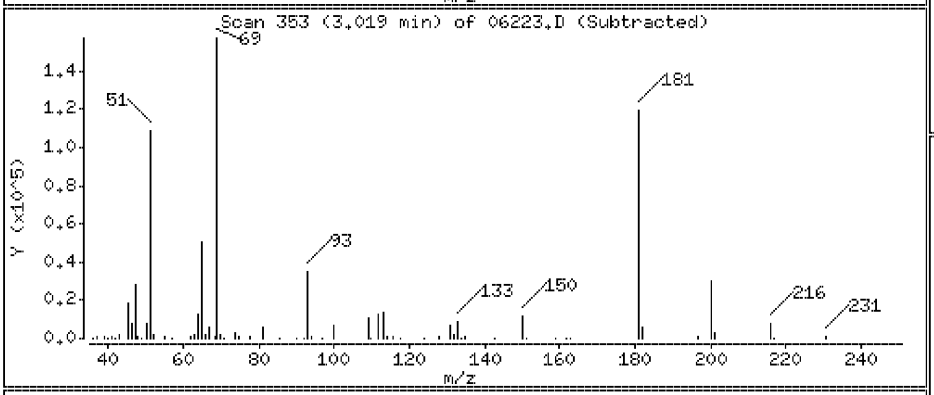
Column phase: J&W DB-5

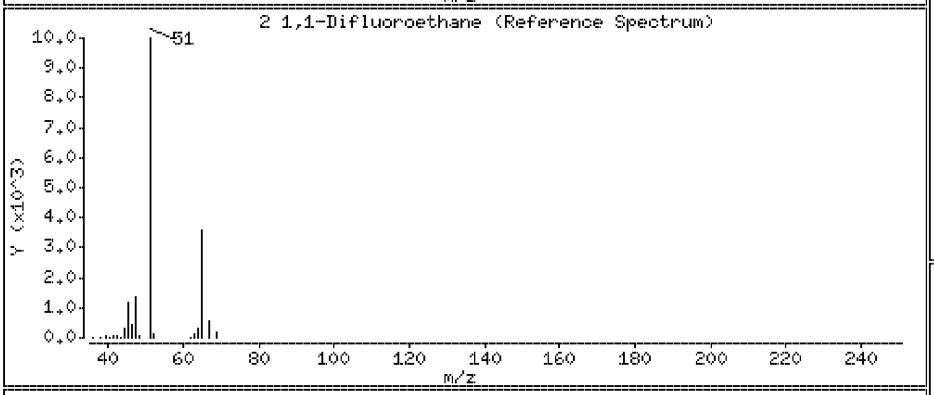
Column diameter: 0.32

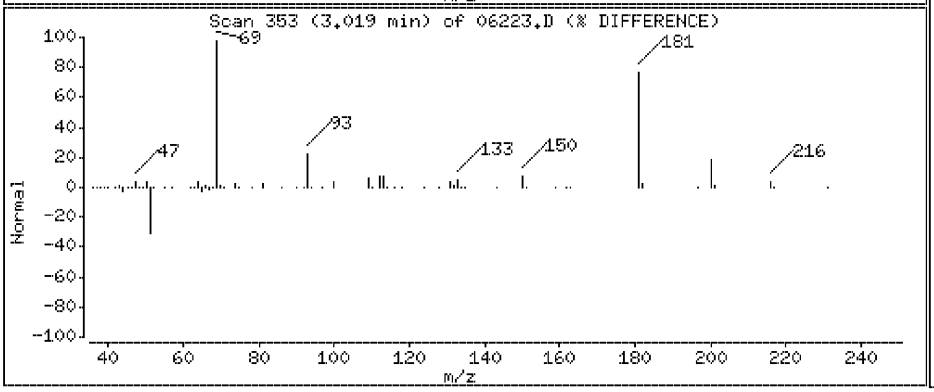
2 1,1-Difluoroethane

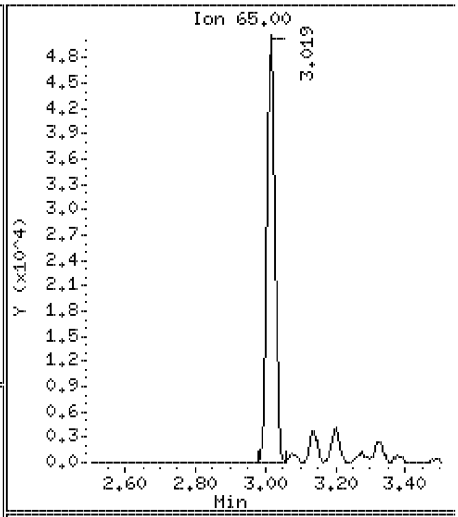
Concentration: 18.9 ppbv

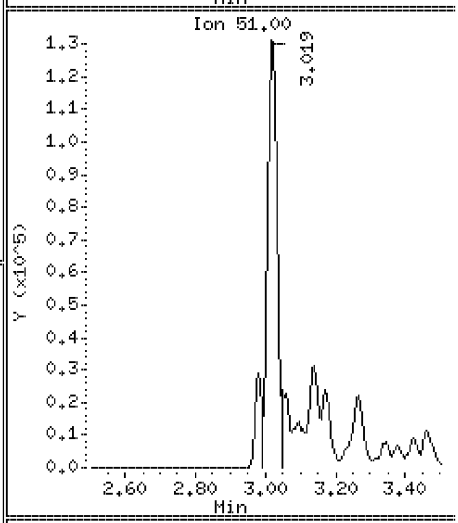


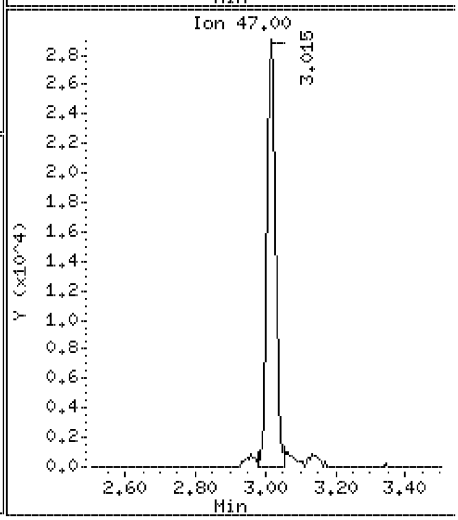












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

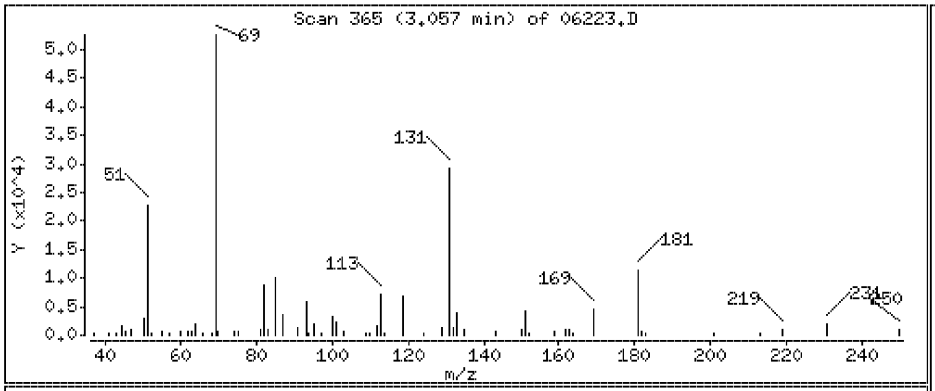
Operator: MJL

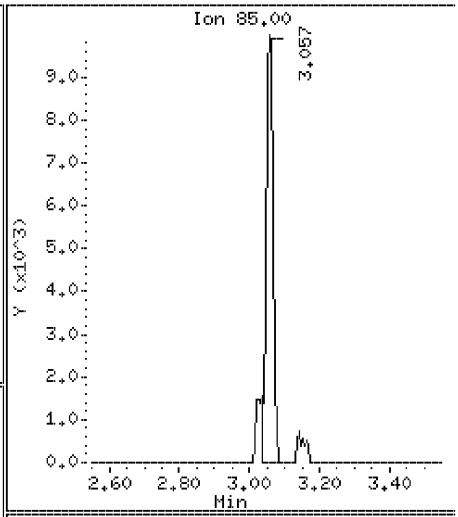
Column phase: J&W DB-5

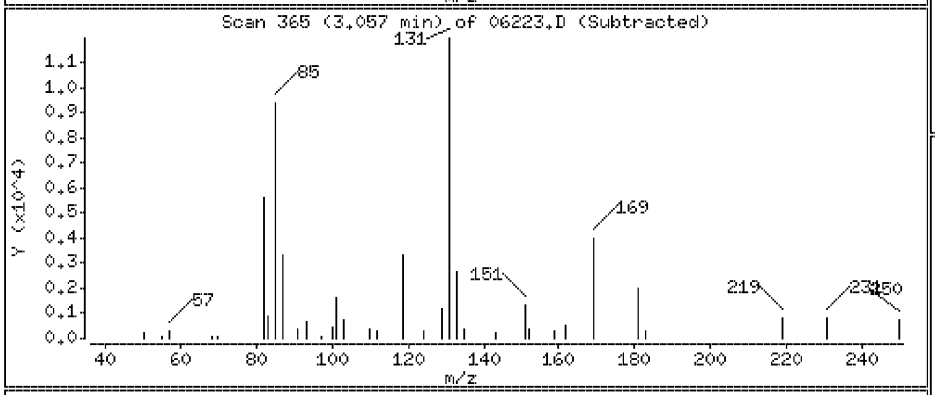
Column diameter: 0.32

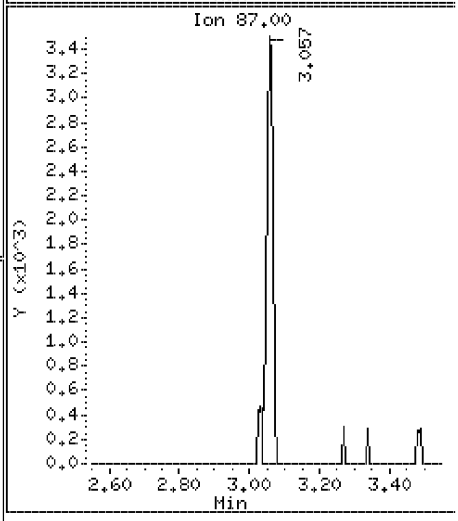
5 Dichlorodifluoromethane

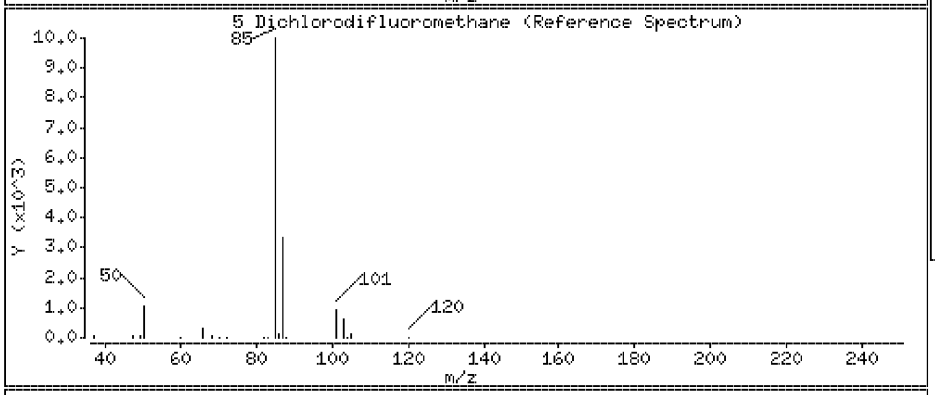
Concentration: 0.491 ppbv

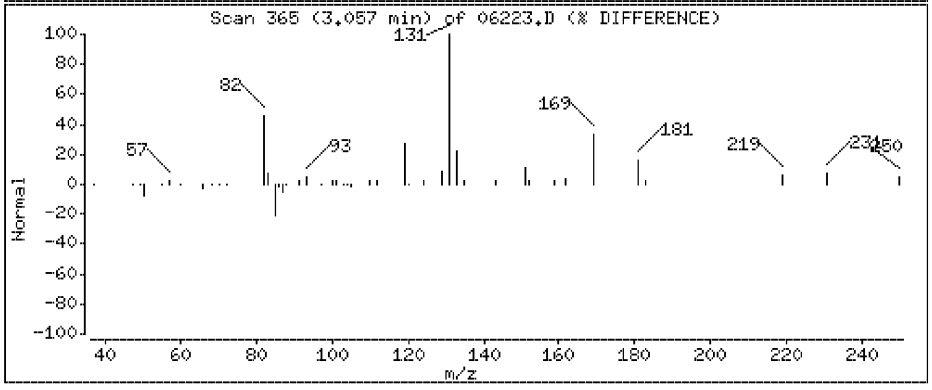












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

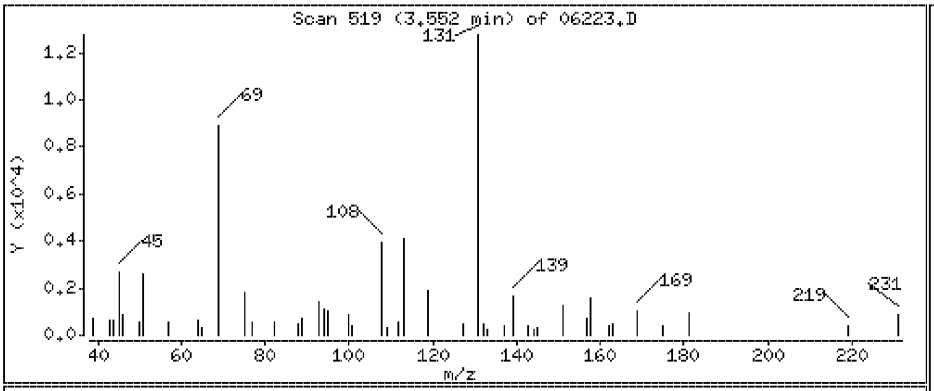
Operator: MJL

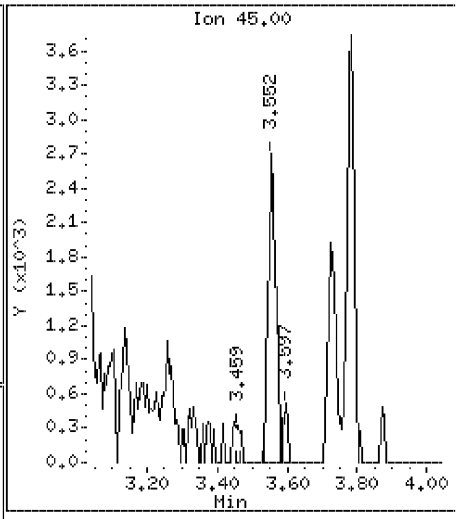
Column phase: J&W DB-5

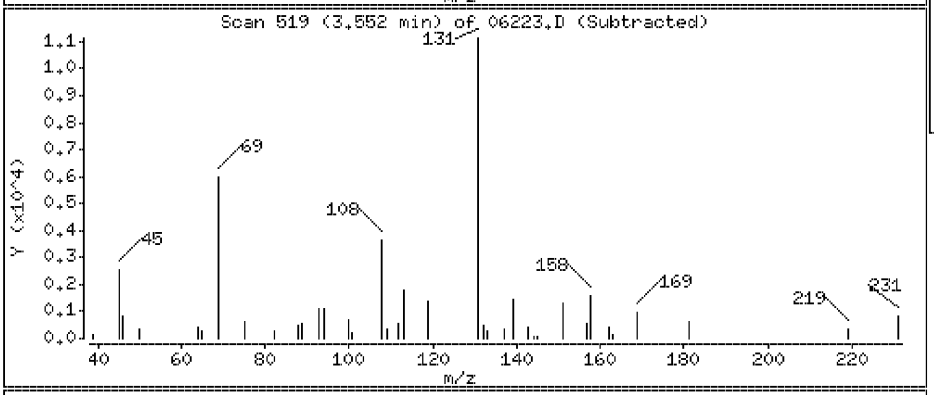
Column diameter: 0.32

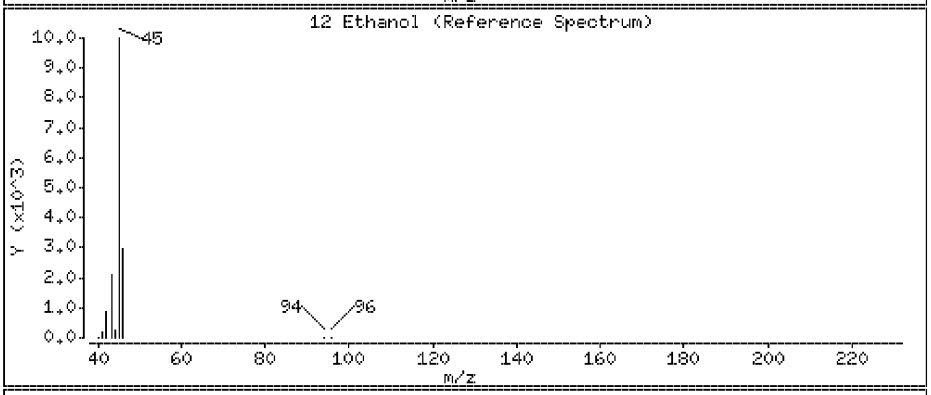
12 Ethanol

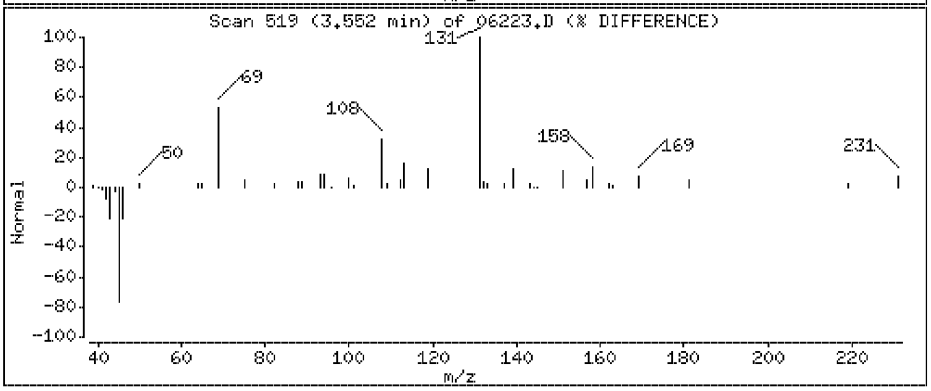
Concentration: 1.48 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

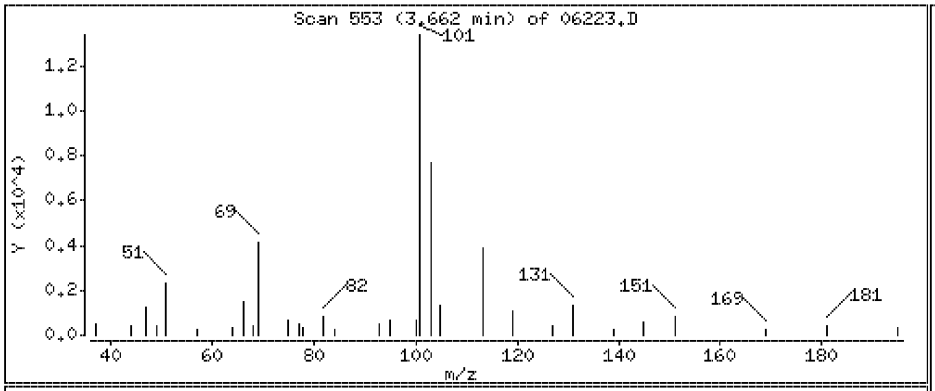
Operator: MJL

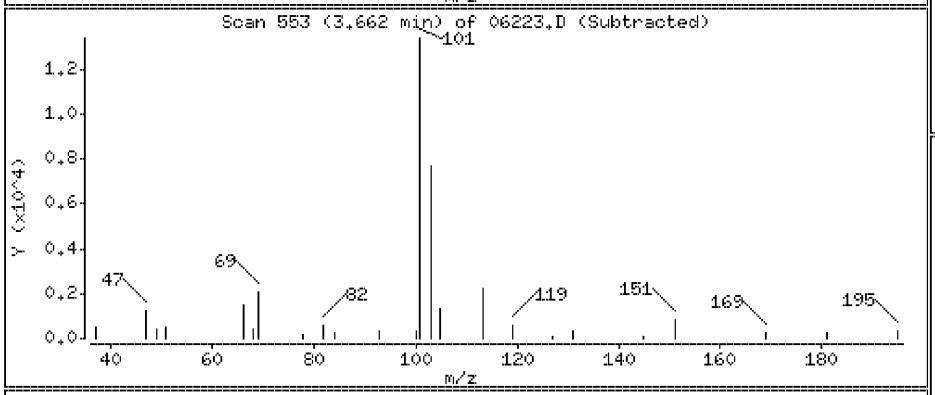
Column phase: J&W DB-5

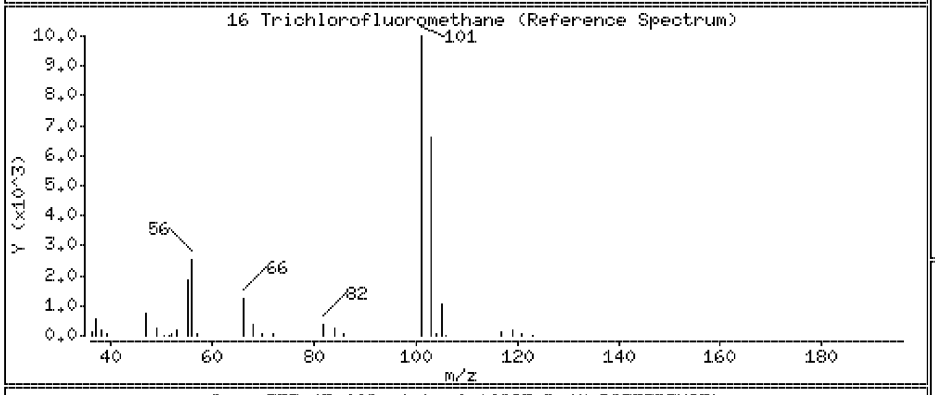
Column diameter: 0.32

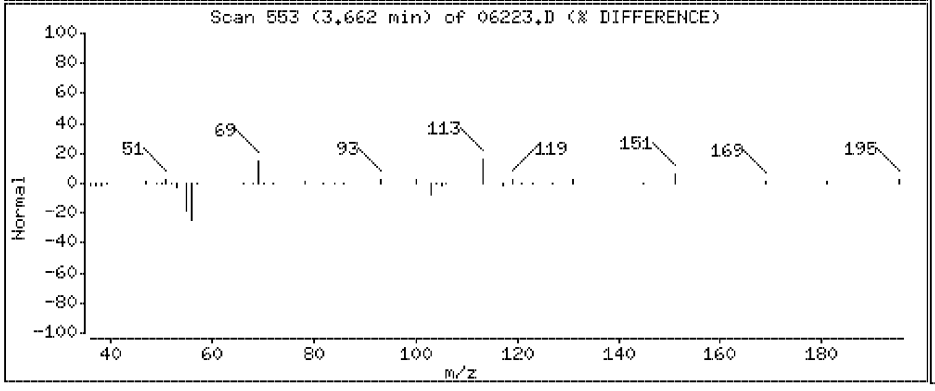
16 Trichlorofluoromethane

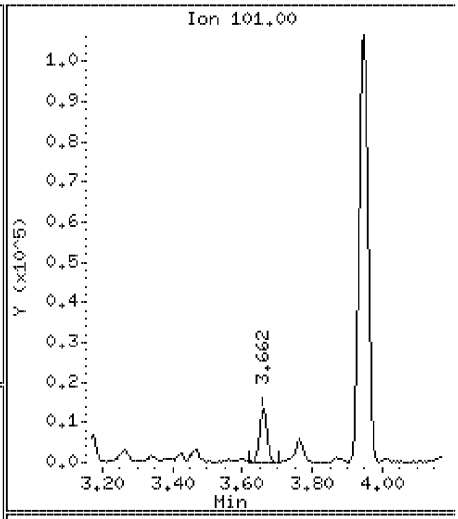
Concentration: 0.982 ppbv

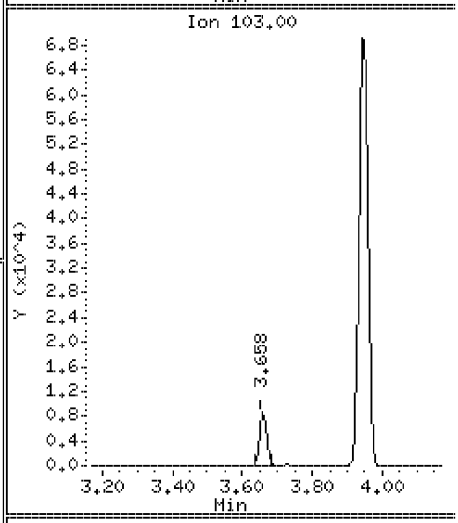


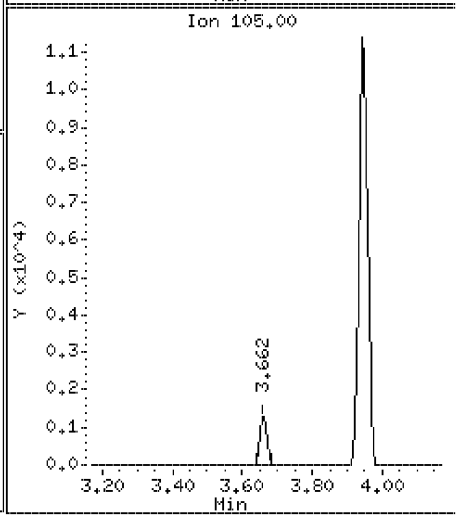












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

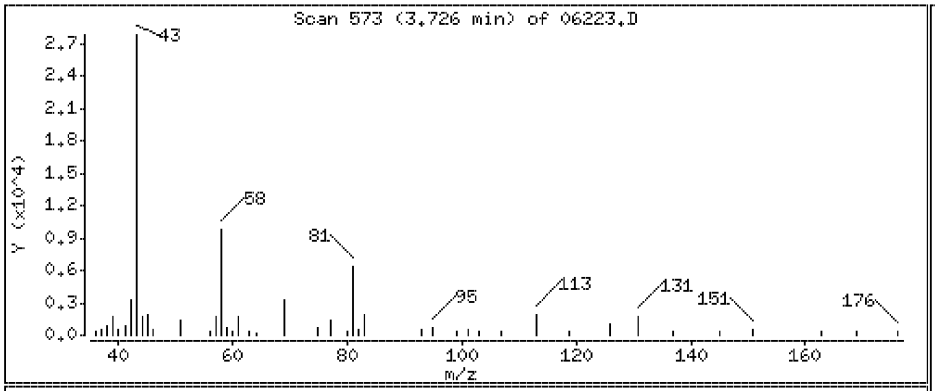
Operator: MJL

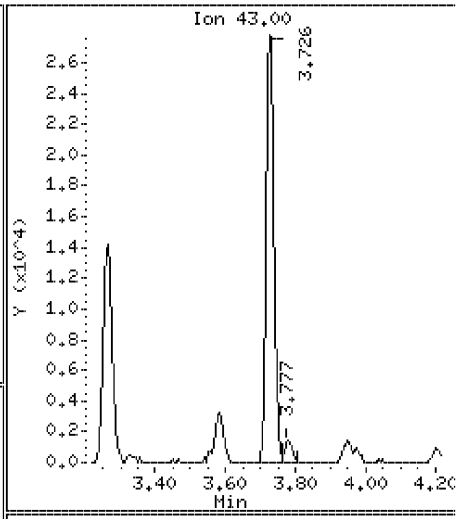
Column phase: J&W DB-5

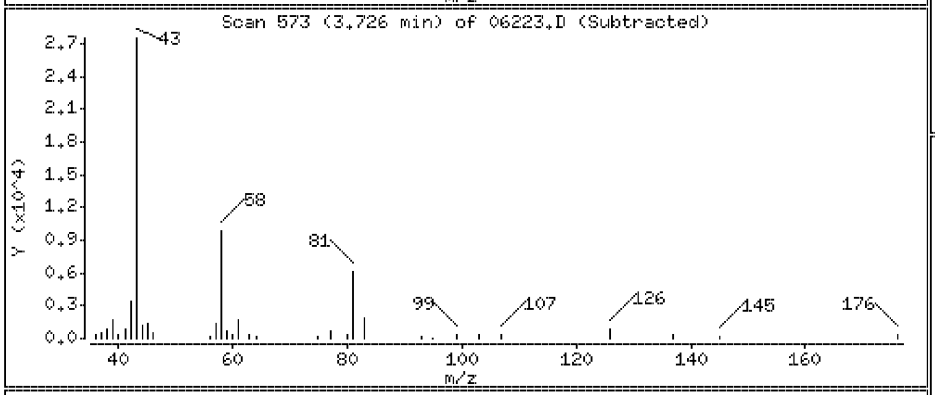
Column diameter: 0.32

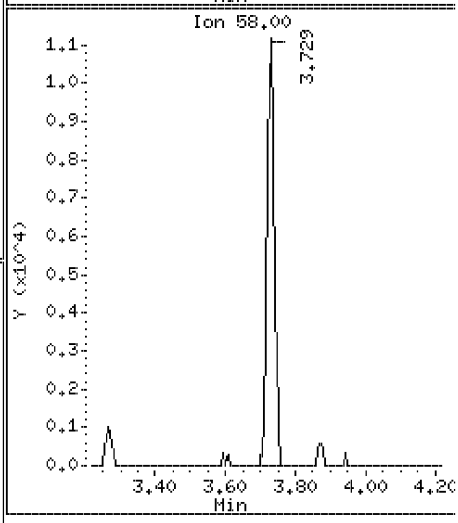
18 Acetone

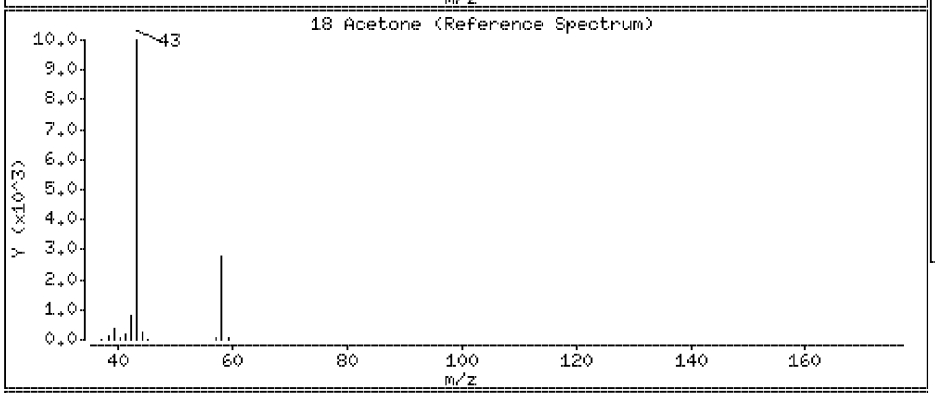
Concentration: 3.65 ppbv

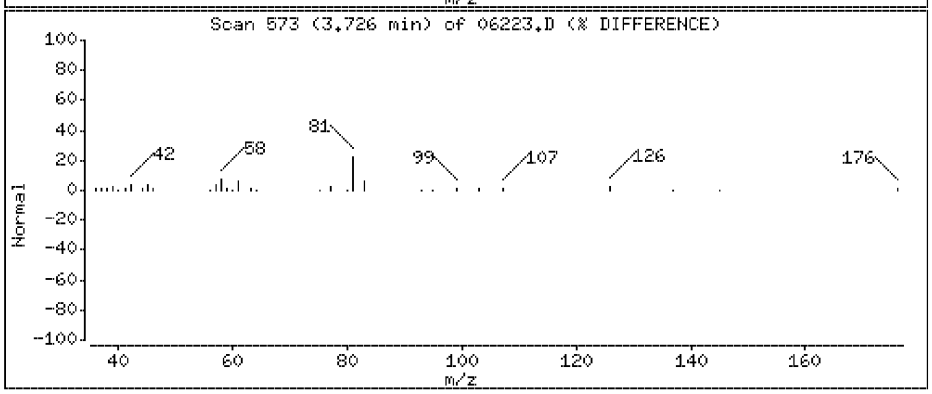












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

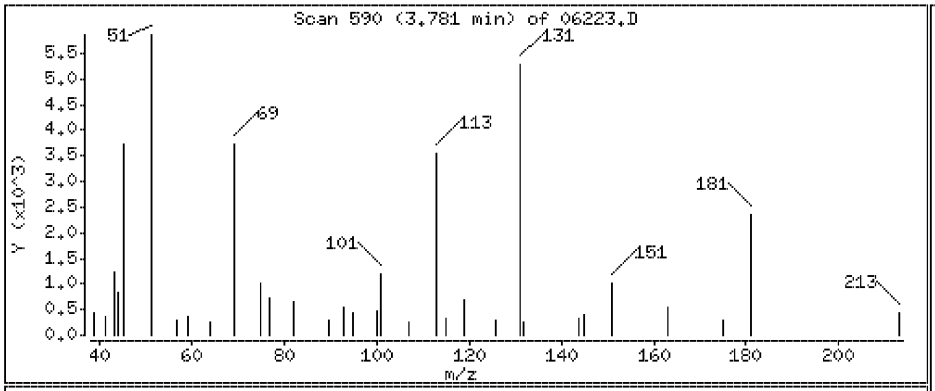
Operator: MJL

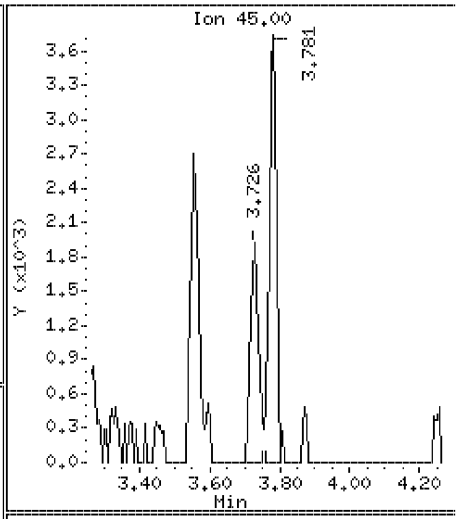
Column phase: J&W DB-5

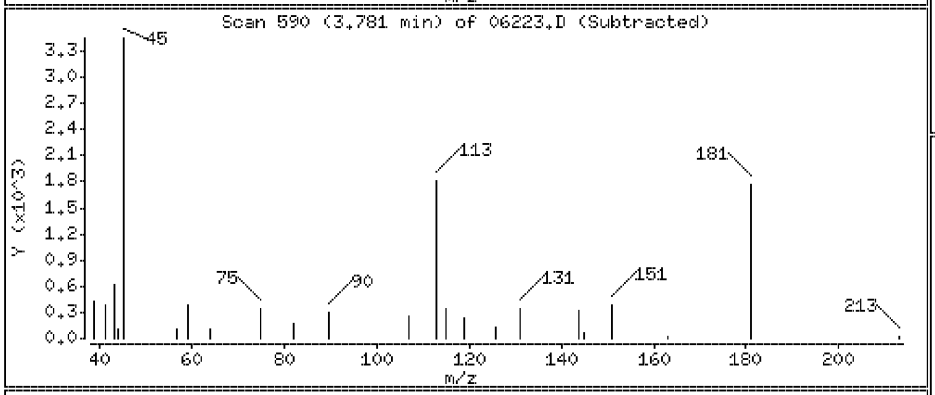
Column diameter: 0.32

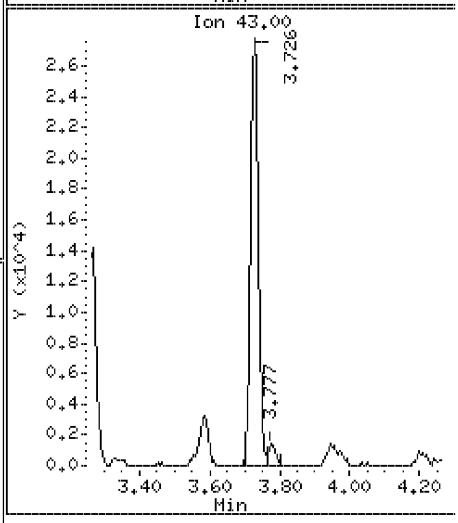
19 Isopropyl Alcohol

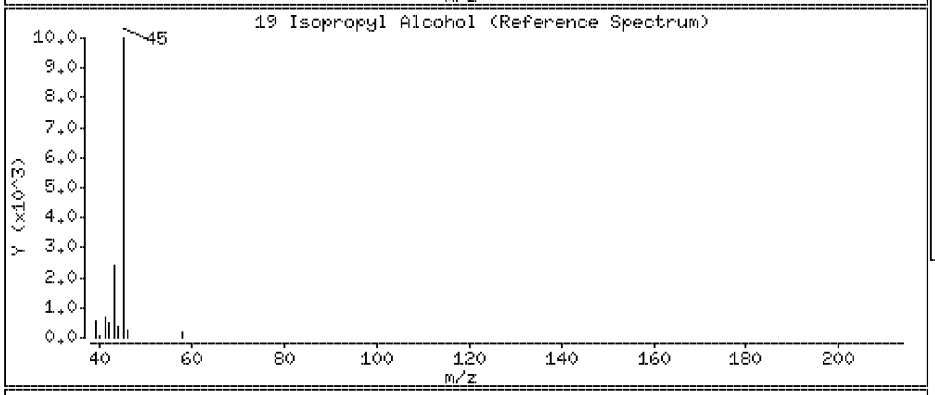
Concentration: 0.434 ppbv

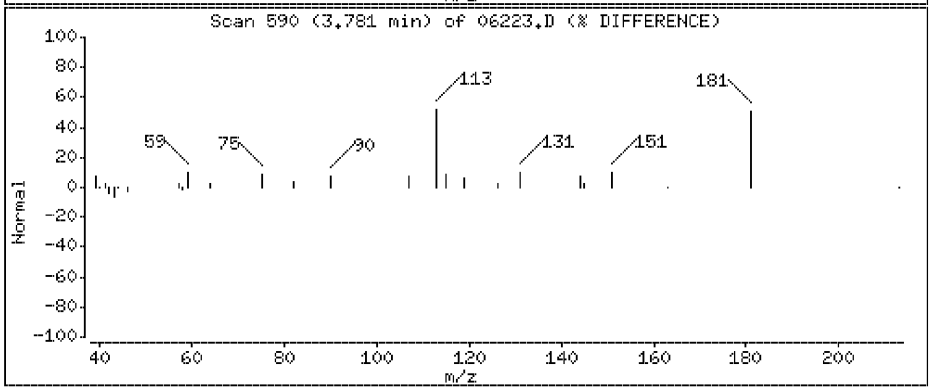












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

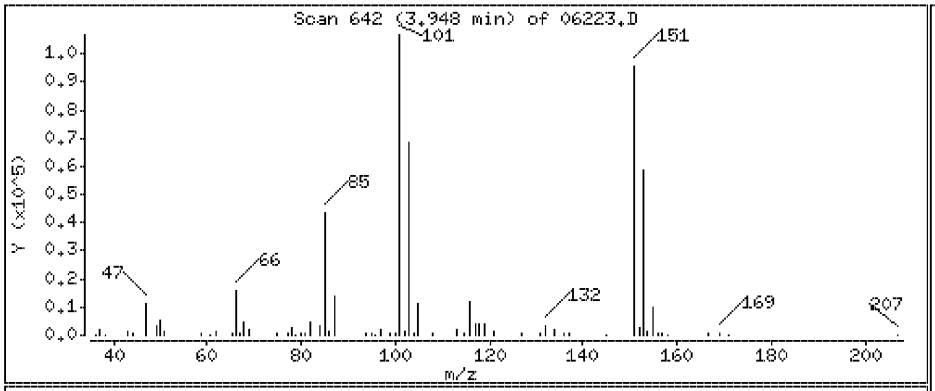
Operator: MJL

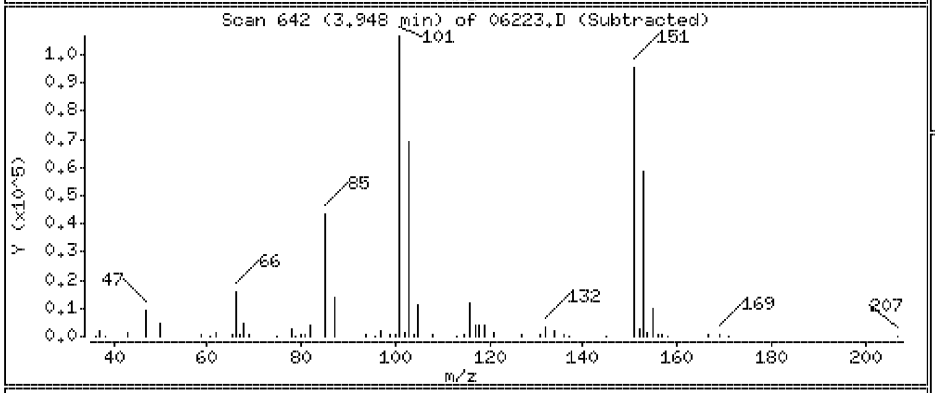
Column phase: J&W DB-5

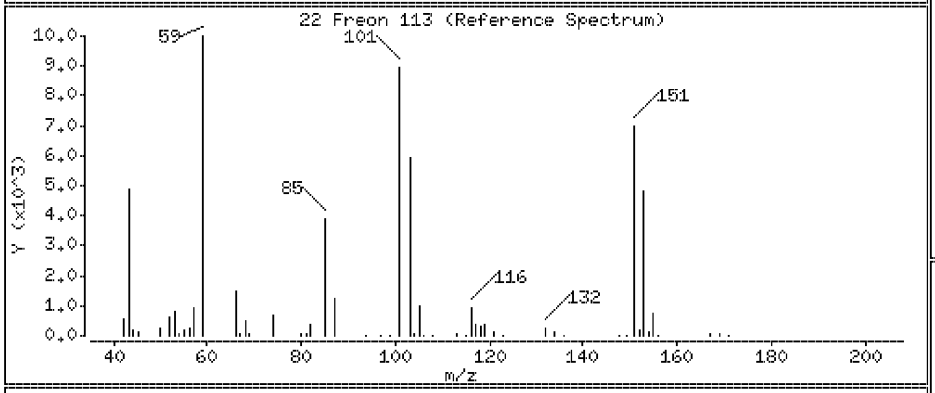
Column diameter: 0.32

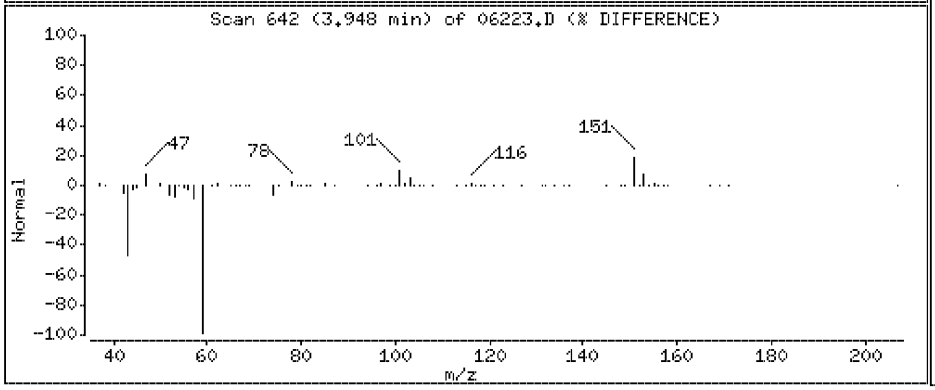
22 Freon 113

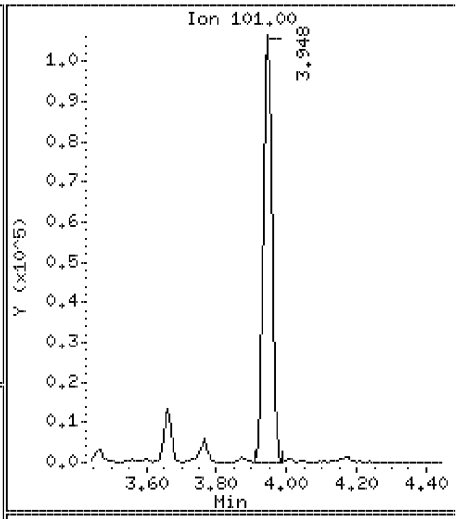
Concentration: 12.2 ppbv

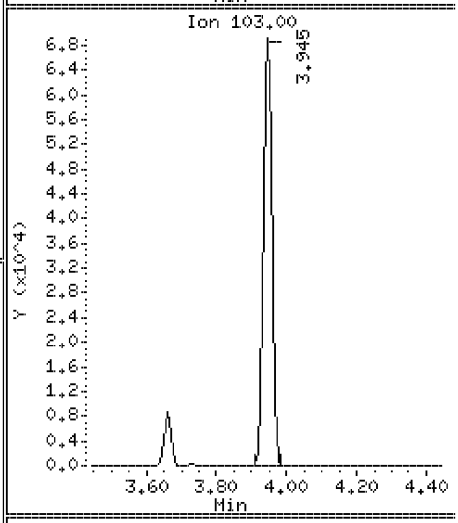


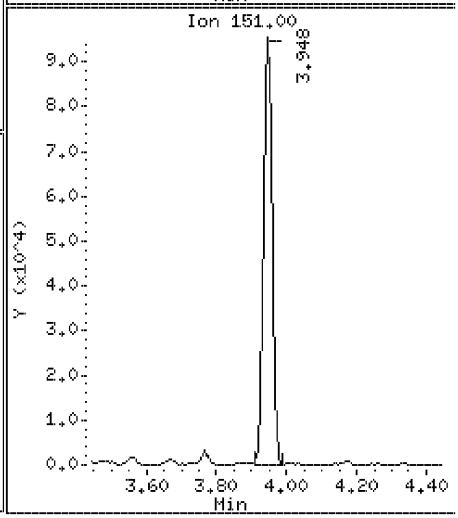












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

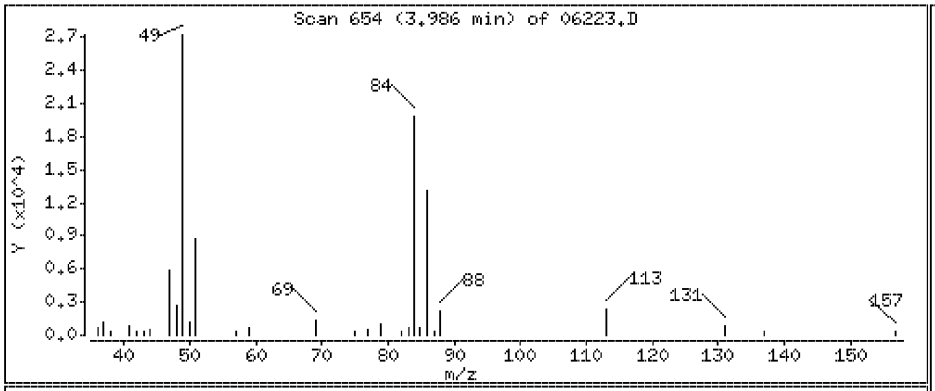
Operator: MJL

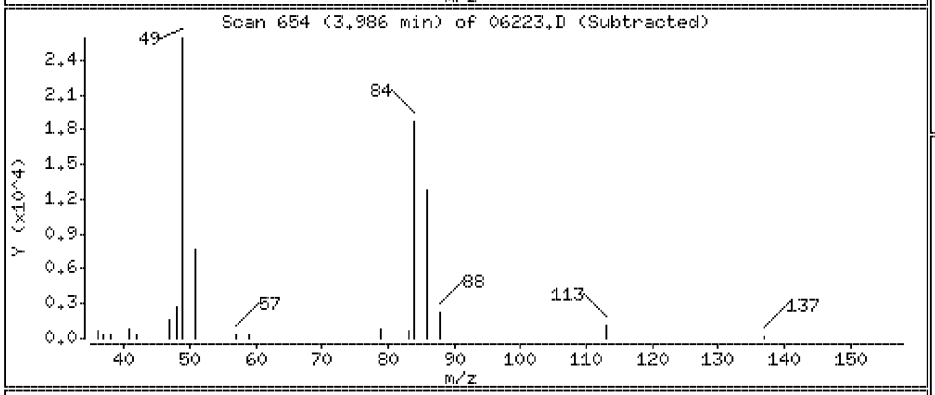
Column phase: J&W DB-5

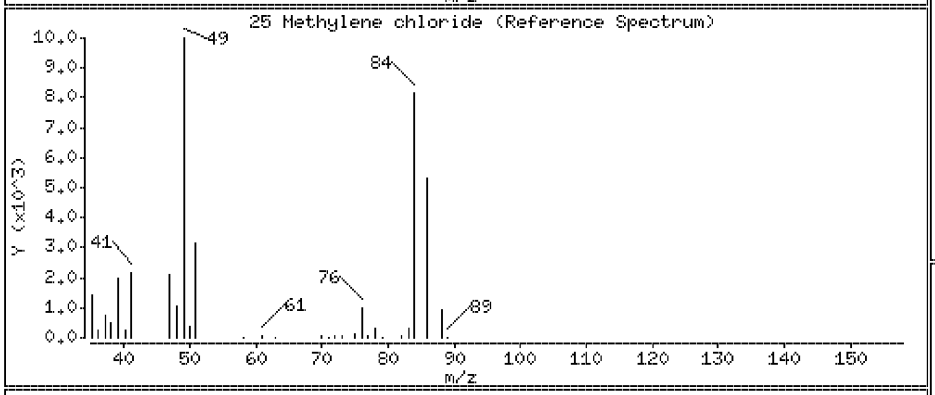
Column diameter: 0.32

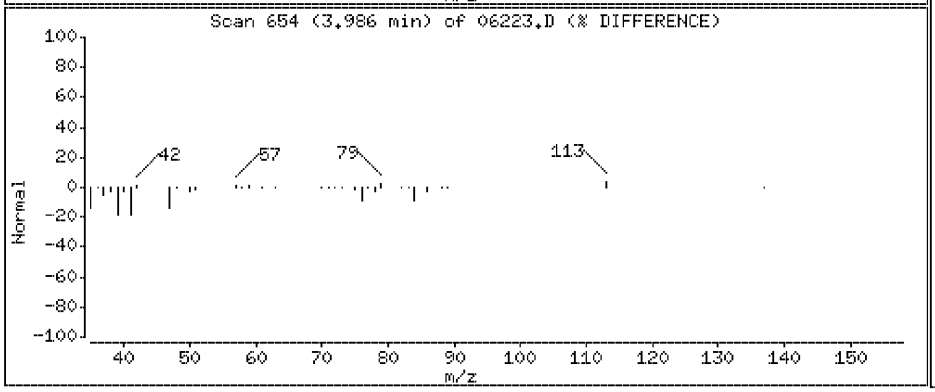
25 Methylene chloride

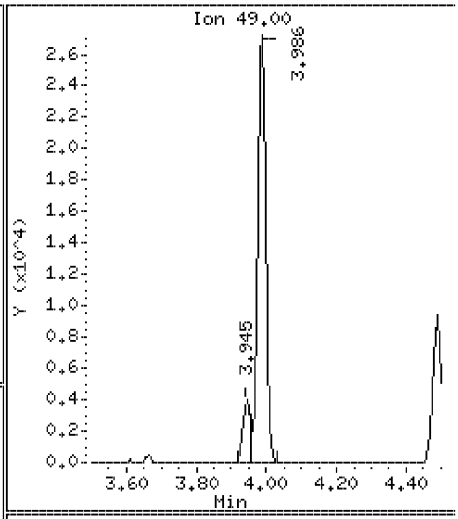
Concentration: 5.40 ppbv

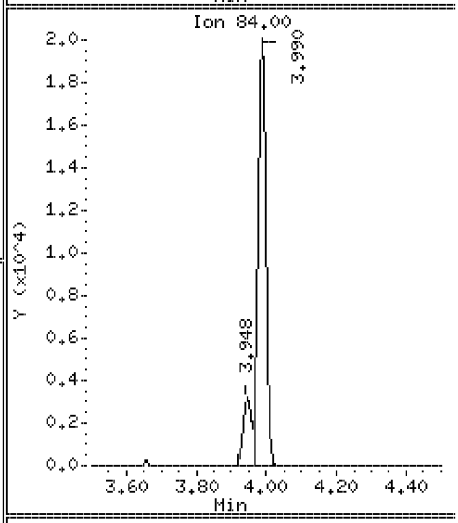


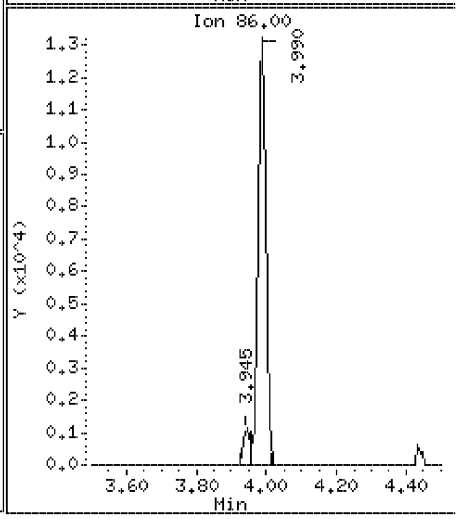












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

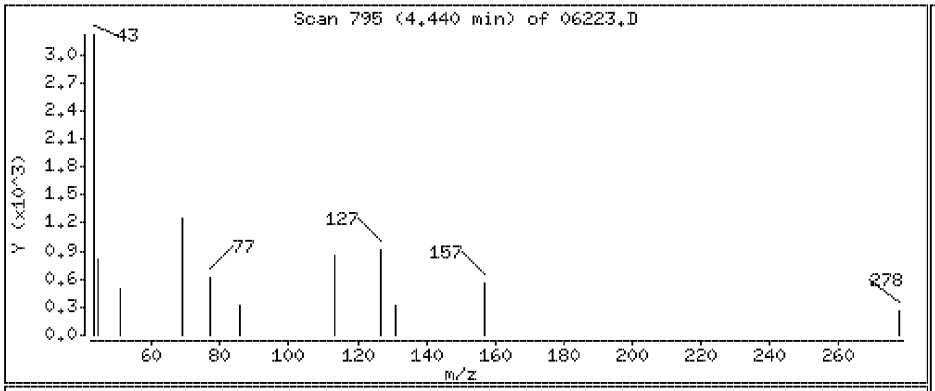
Operator: MJL

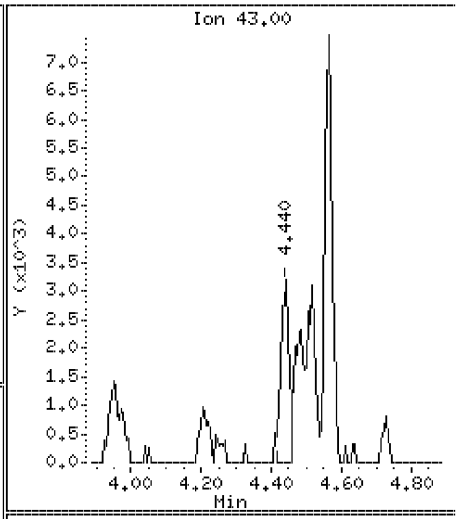
Column phase: J&W DB-5

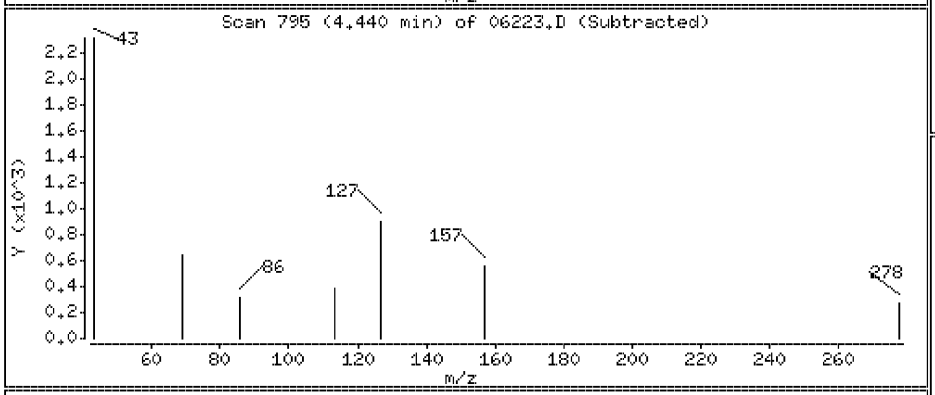
Column diameter: 0.32

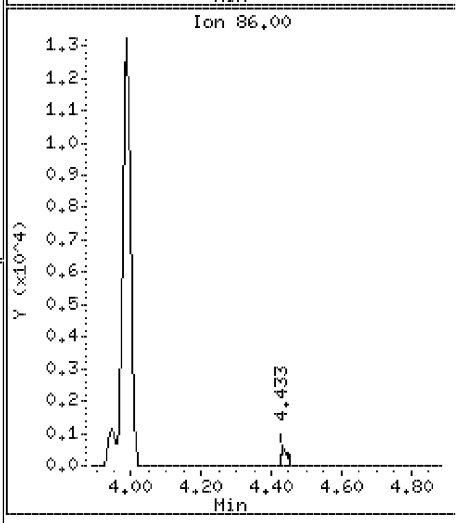
30 Vinyl Acetate

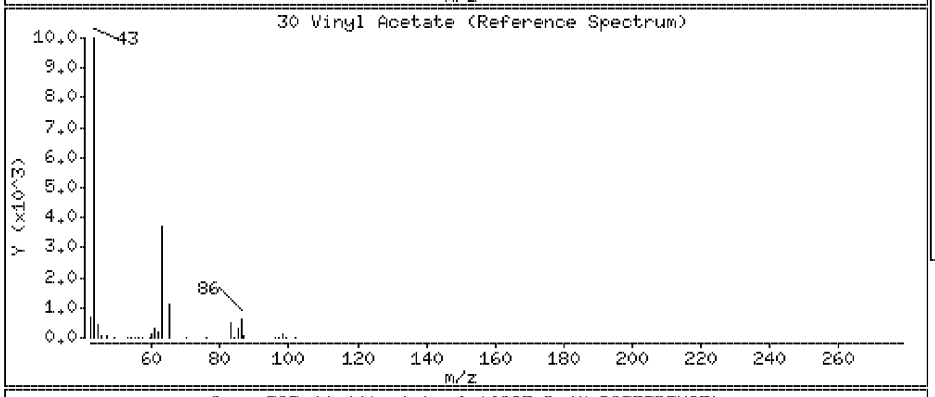
Concentration: 0.581 ppbv

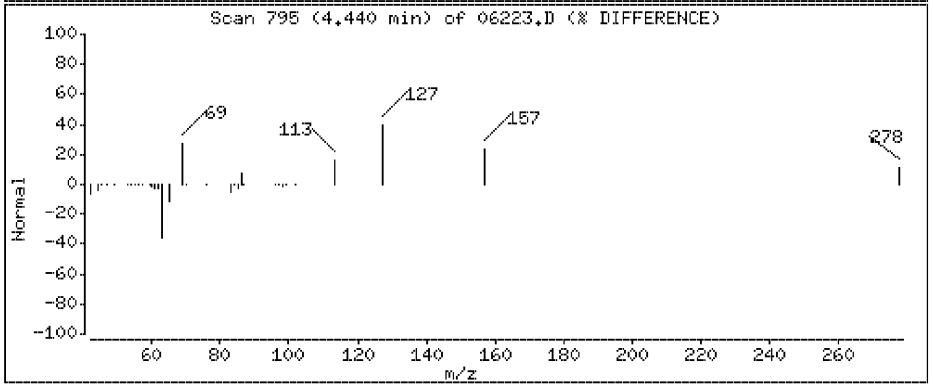












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

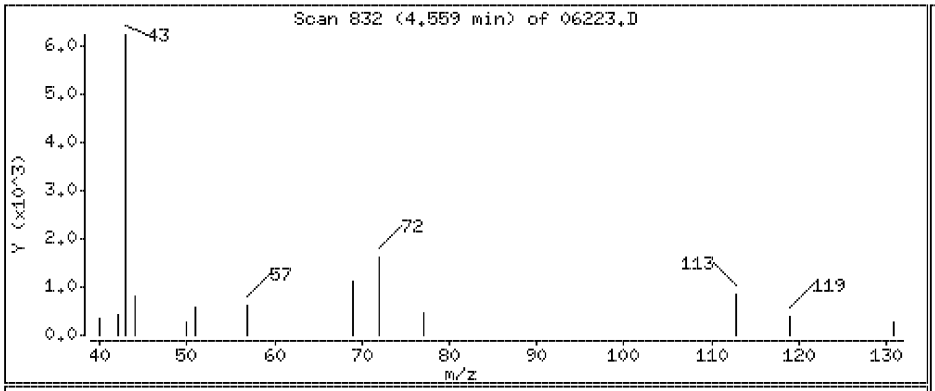
Operator: MJL

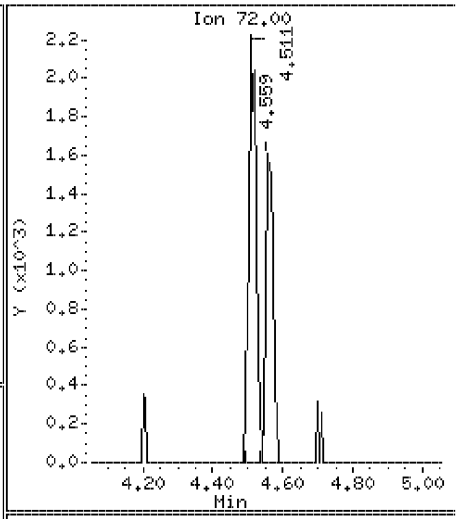
Column phase: J&W DB-5

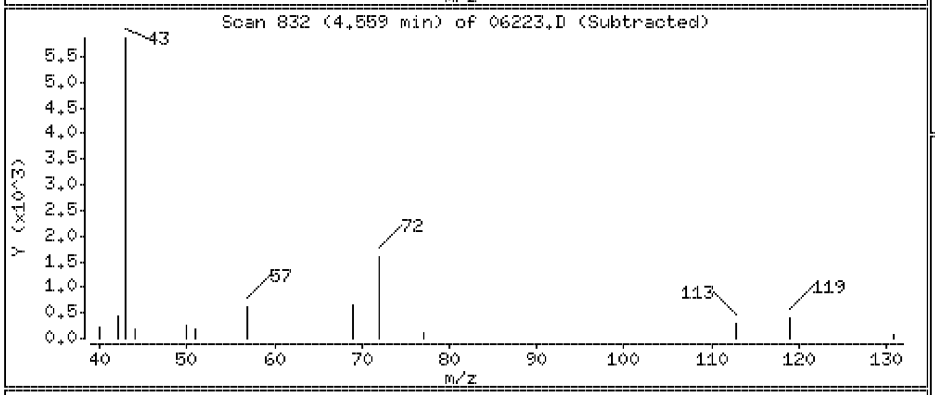
Column diameter: 0.32

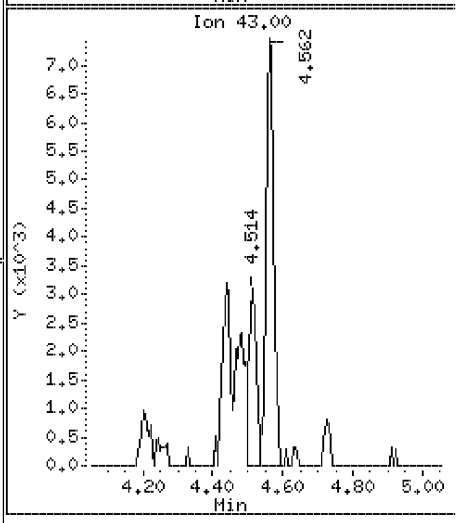
33 Methyl Ethyl Ketone

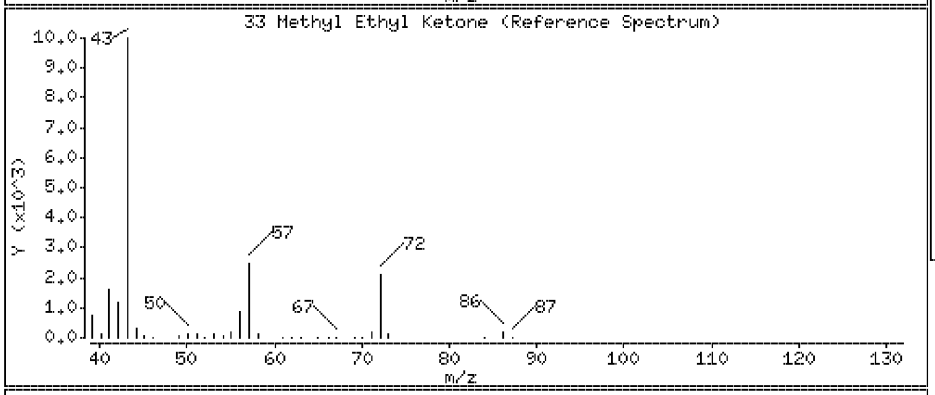
Concentration: 0.754 ppbv

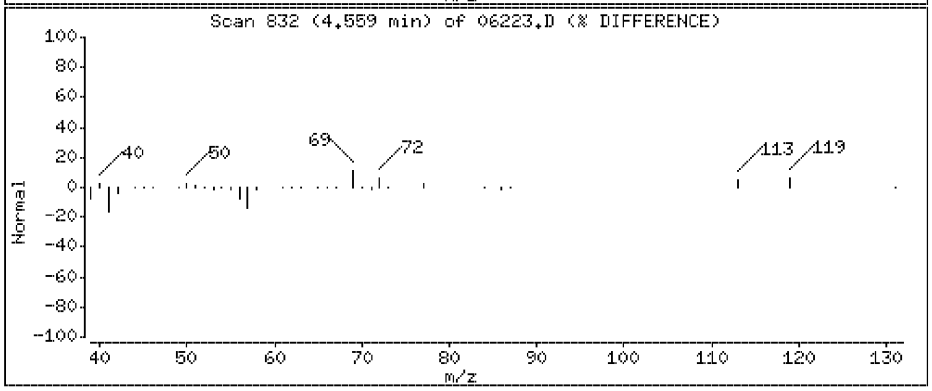












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

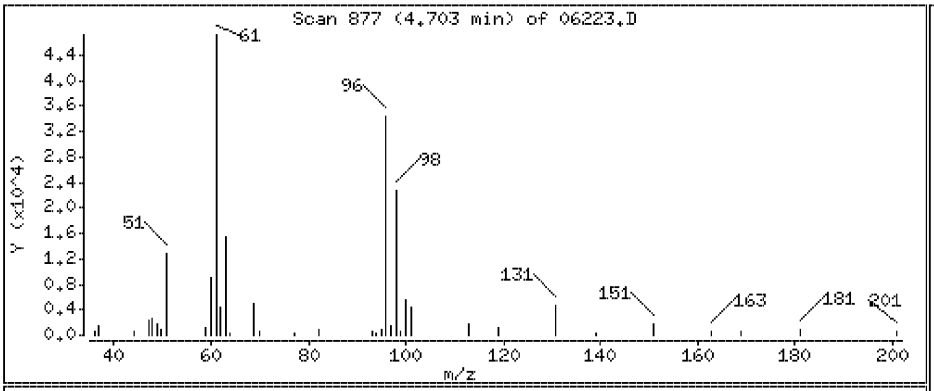
Operator: MJL

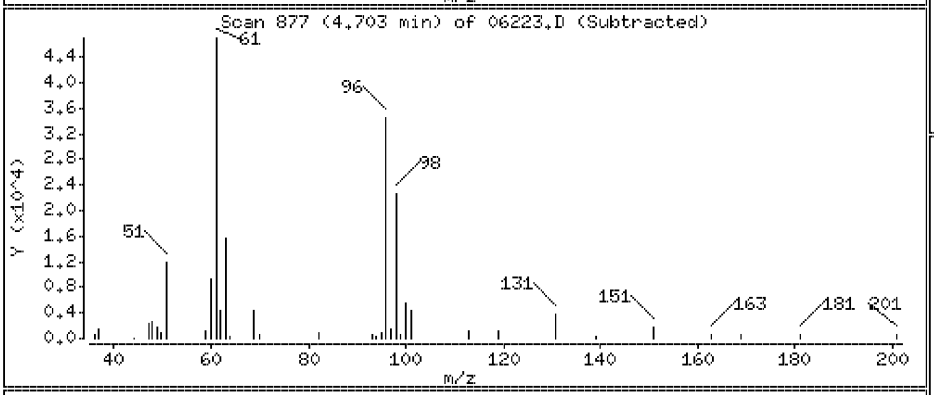
Column phase: J&W DB-5

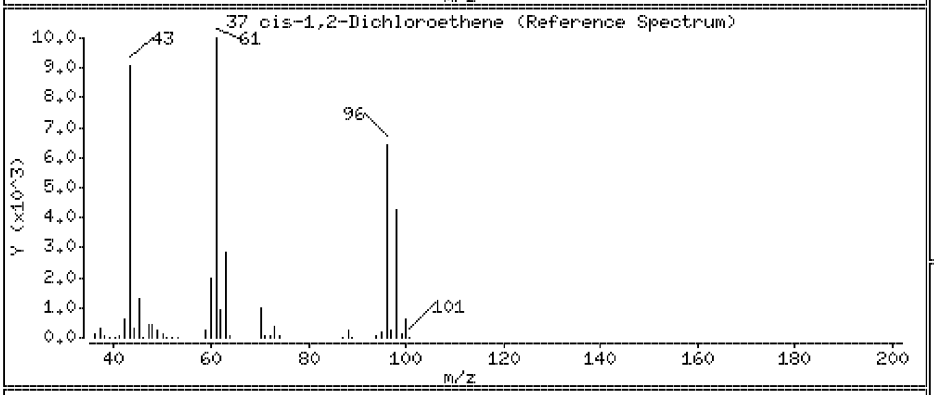
Column diameter: 0.32

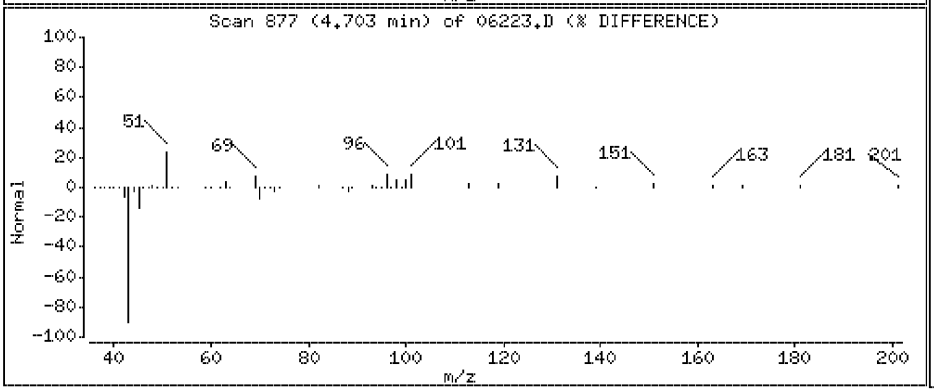
37 cis-1,2-Dichloroethene

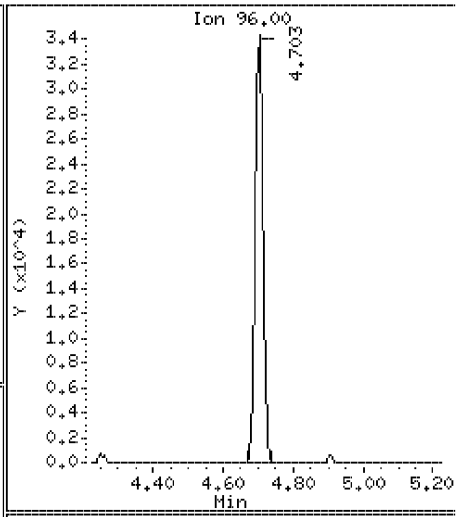
Concentration: 7.25 ppbv

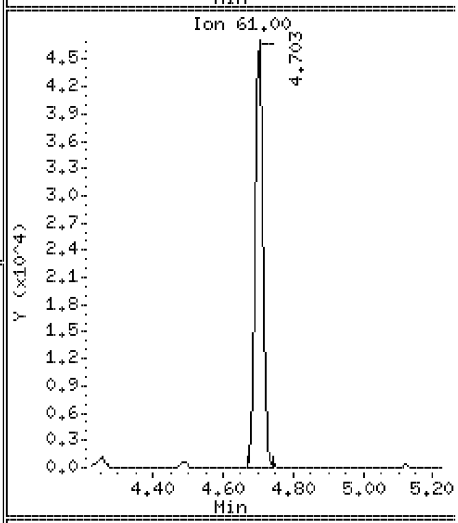


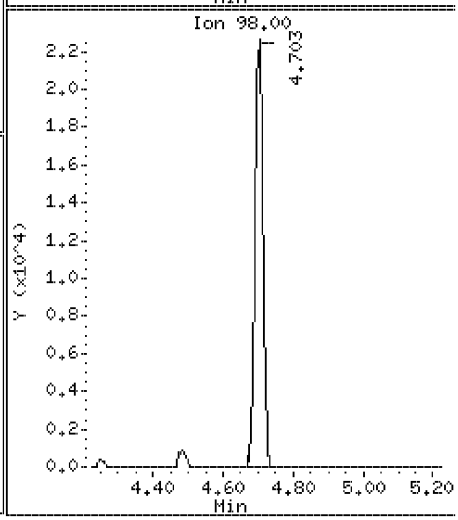












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

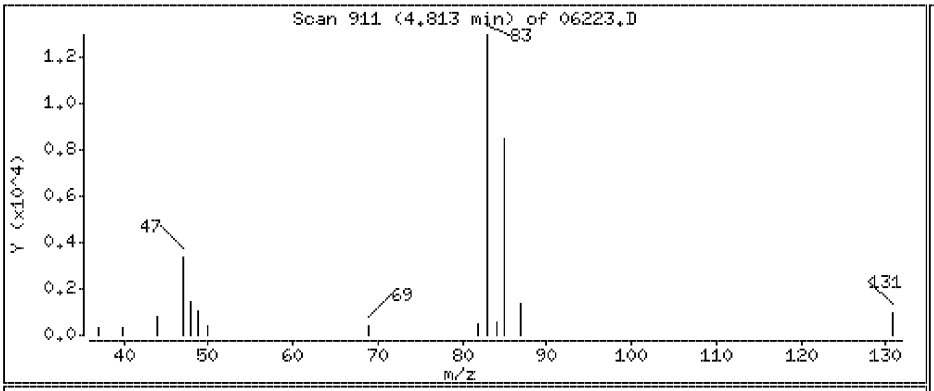
Operator: MJL

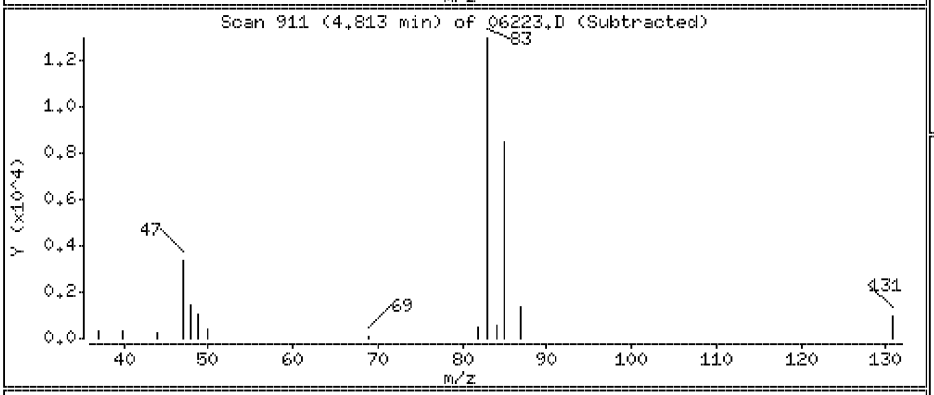
Column phase: J&W DB-5

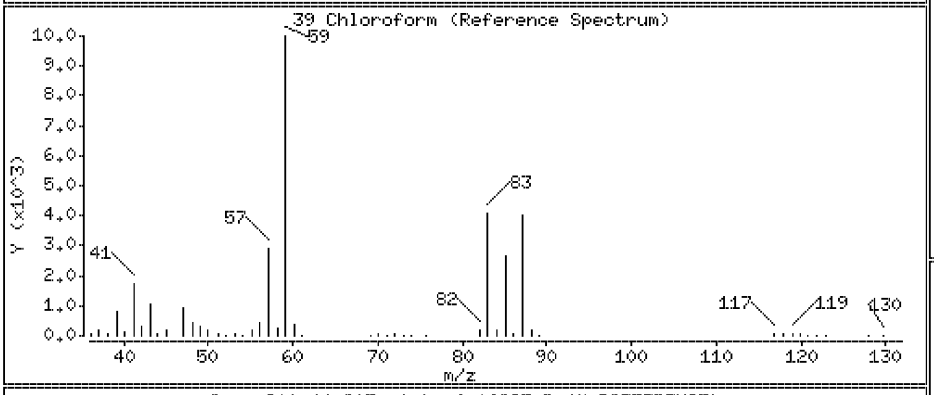
Column diameter: 0.32

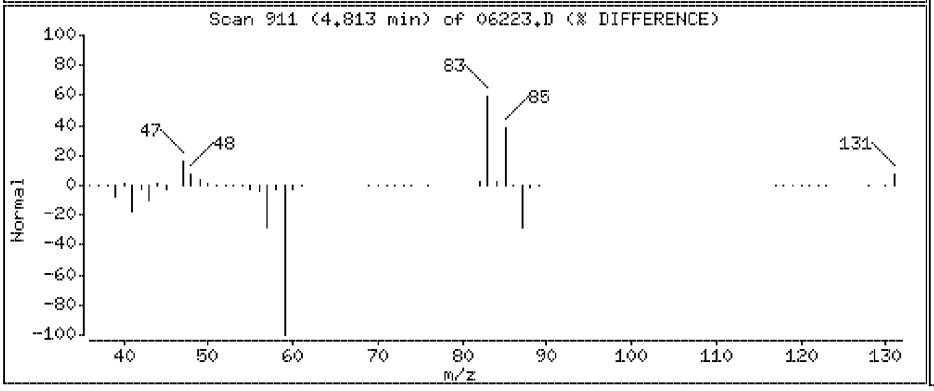
39 Chloroform

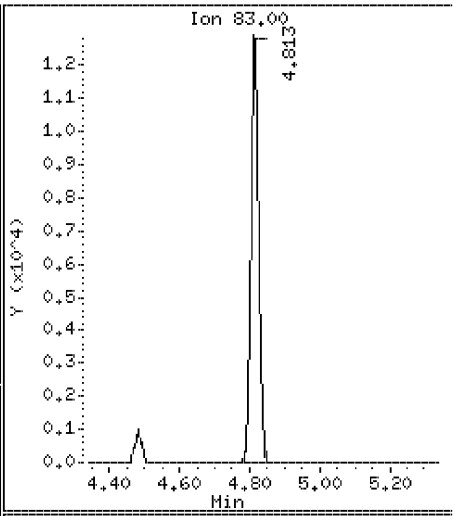
Concentration: 1.25 ppbv

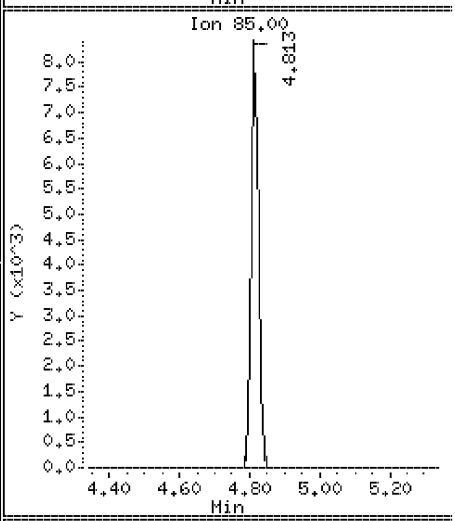


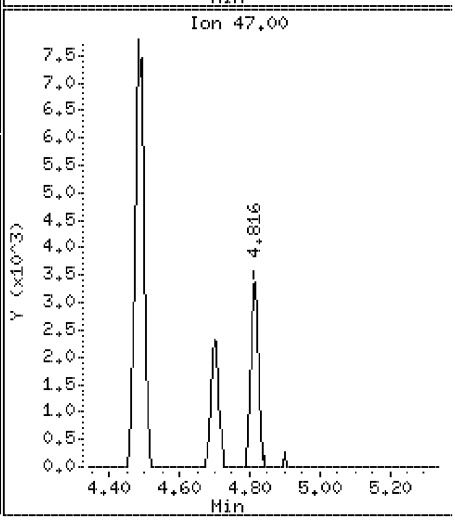












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

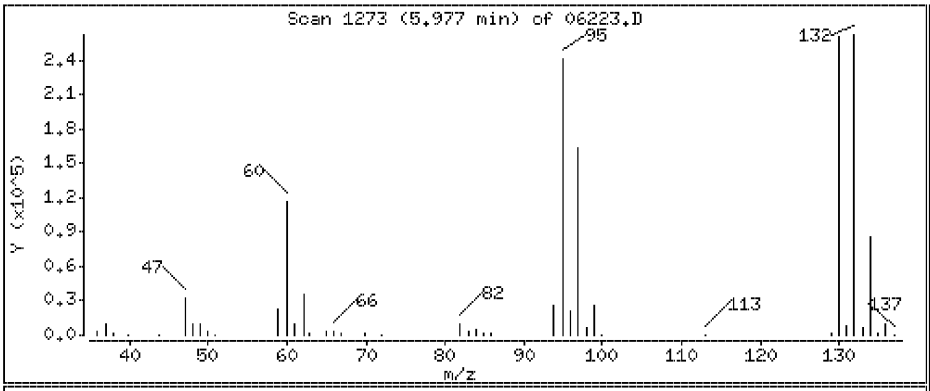
Operator: MJL

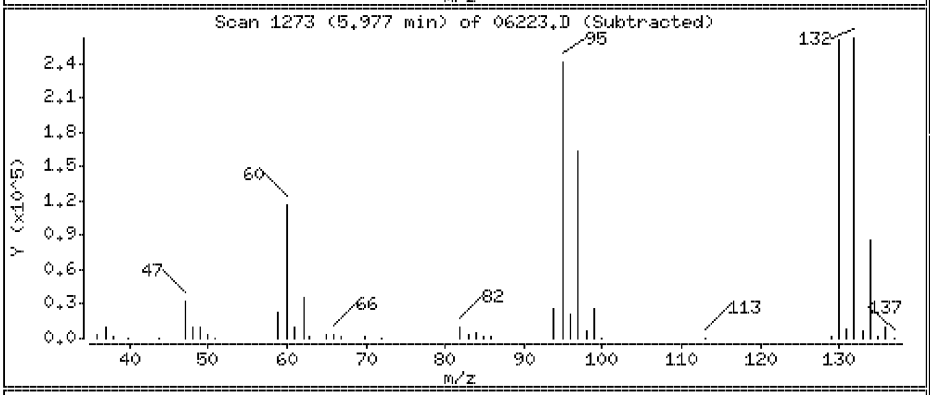
Column phase: J&W DB-5

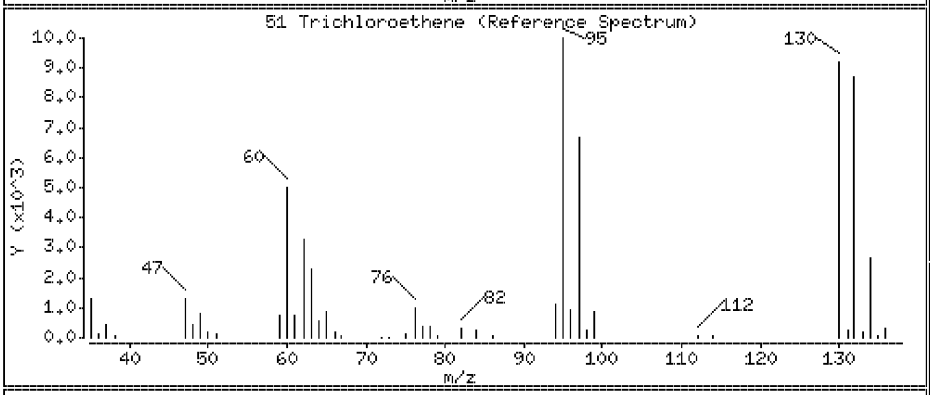
Column diameter: 0.32

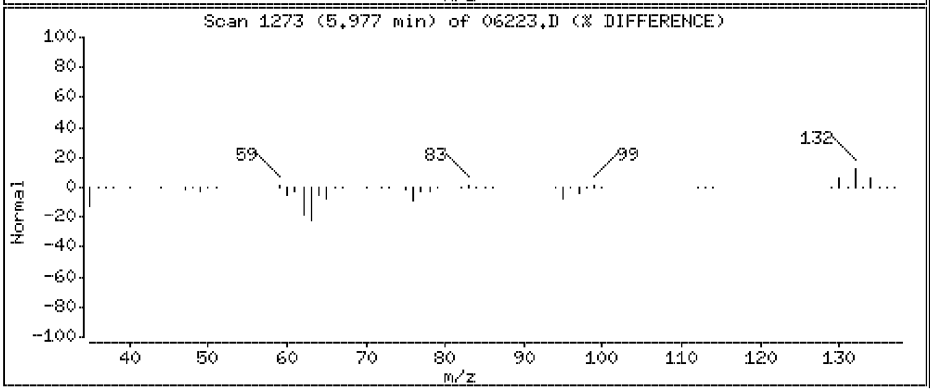
51 Trichloroethene

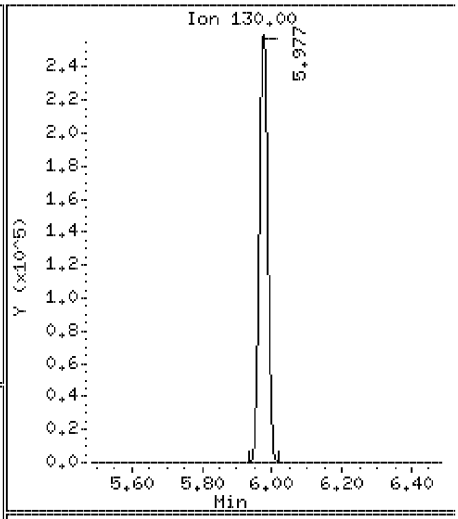
Concentration: 35.6 ppbv

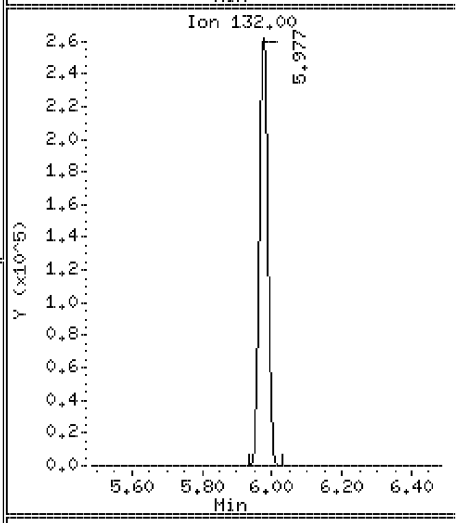


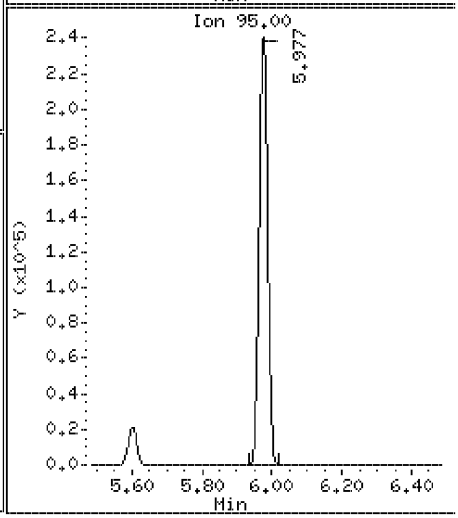












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

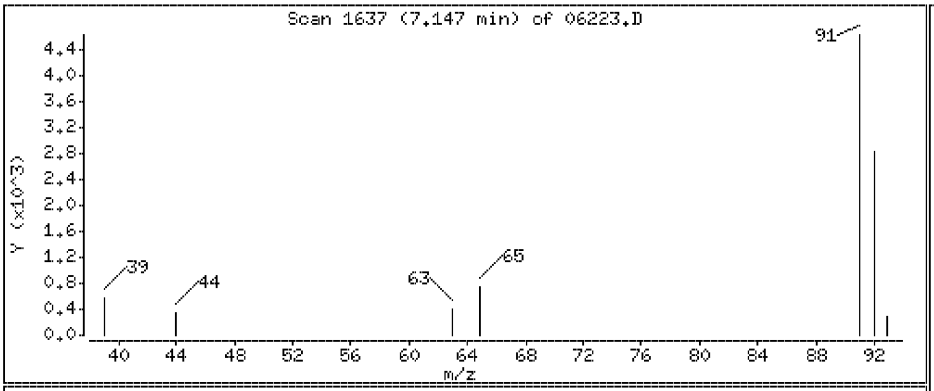
Operator: MJL

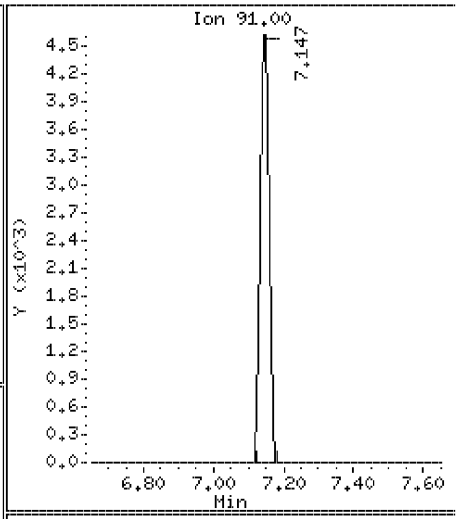
Column phase: J&W DB-5

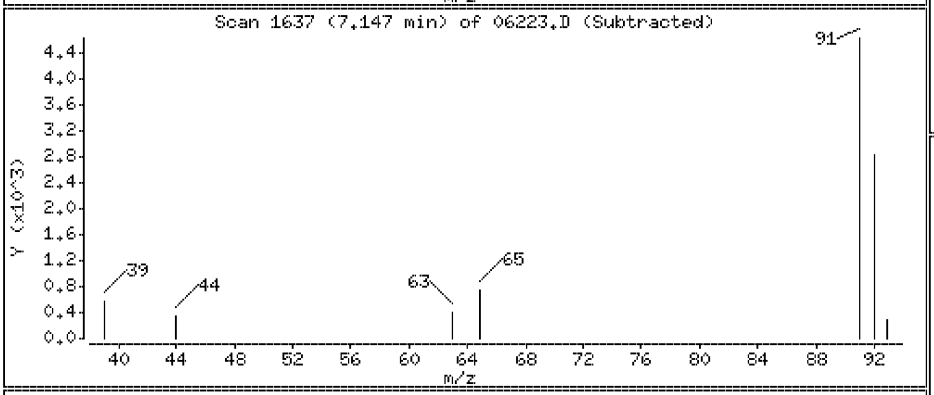
Column diameter: 0.32

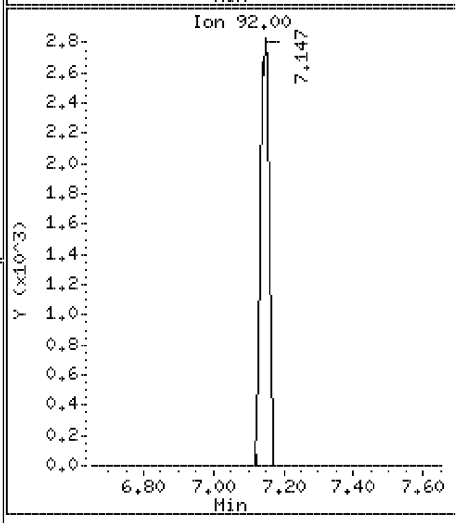
61 Toluene

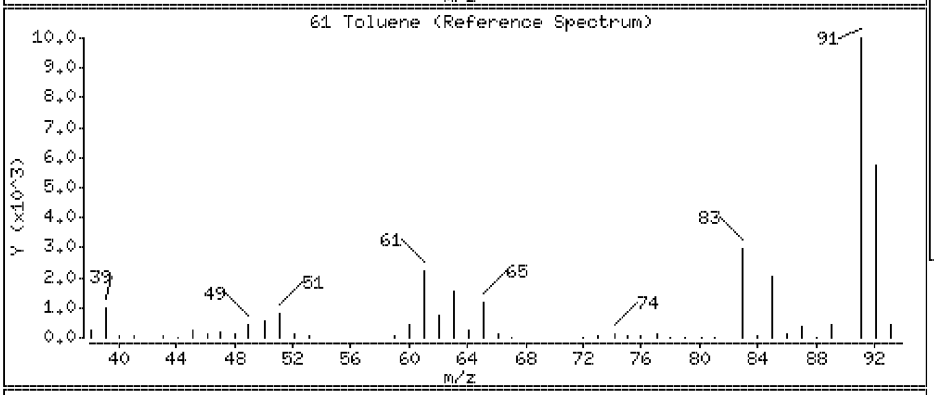
Concentration: 0.271 ppbv

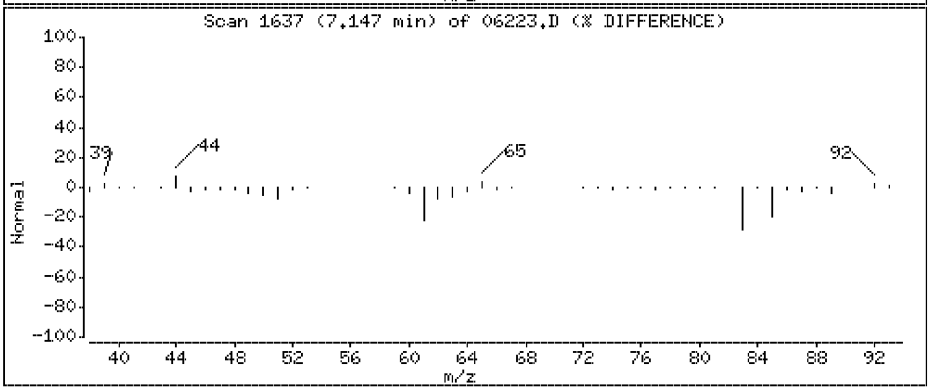












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

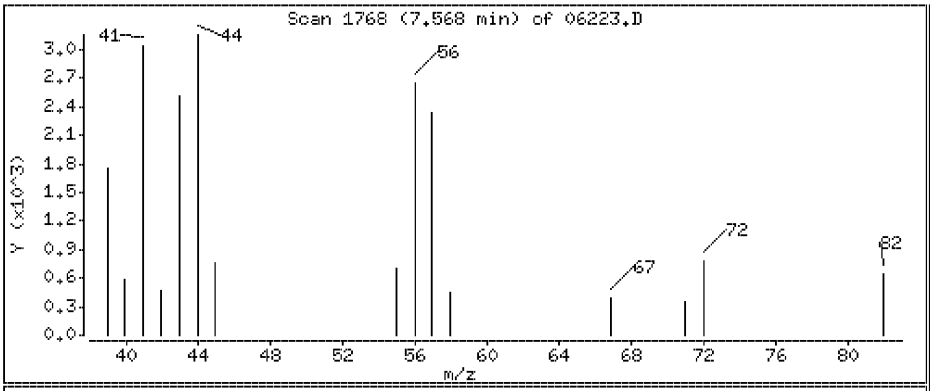
Operator: MJL

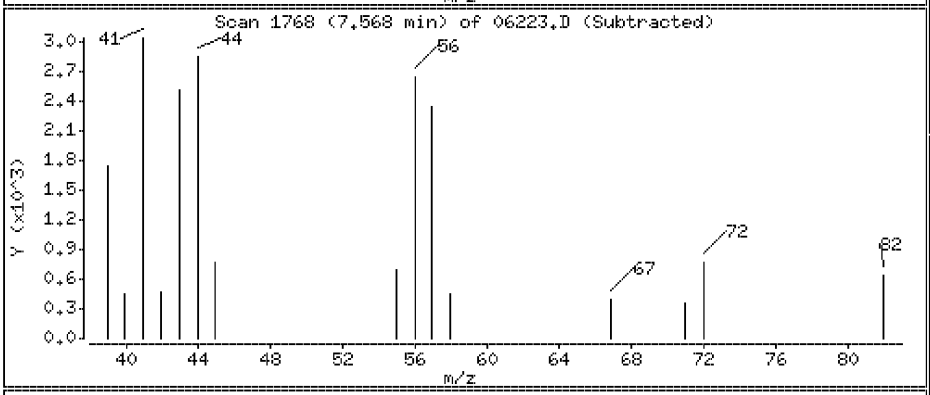
Column phase: J&W DB-5

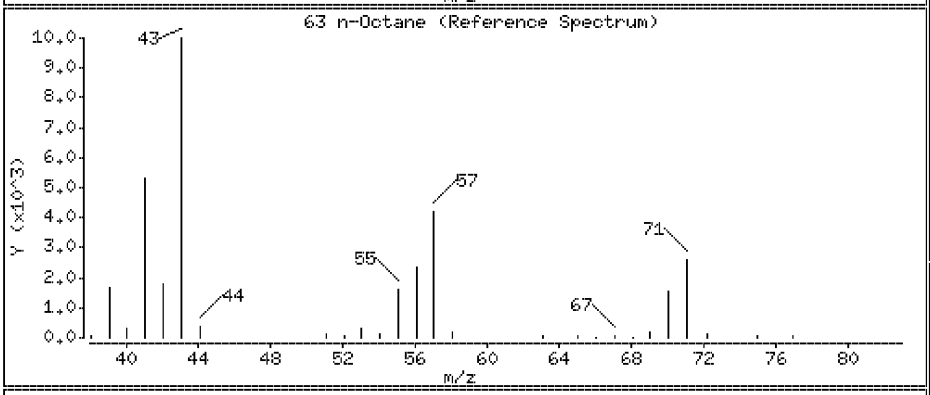
Column diameter: 0.32

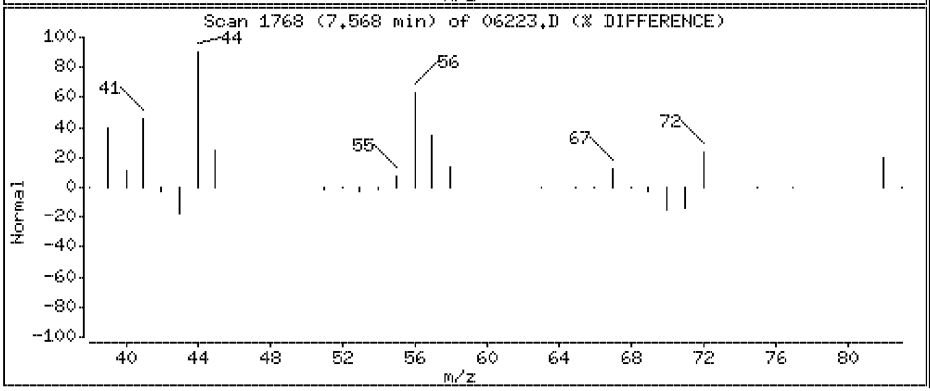
63 n-Octane

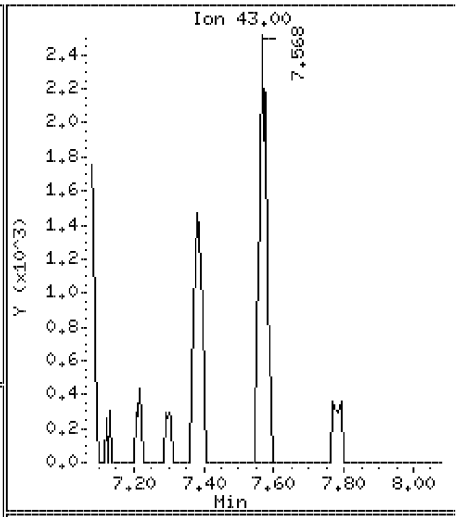
Concentration: 0.219 ppbv

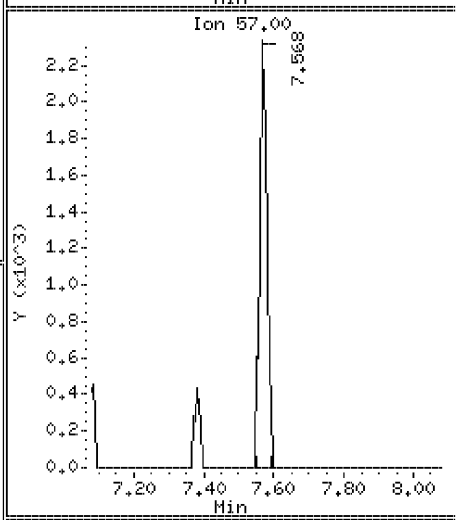


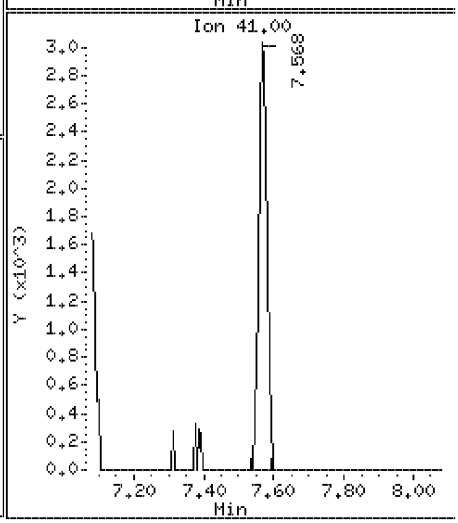












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

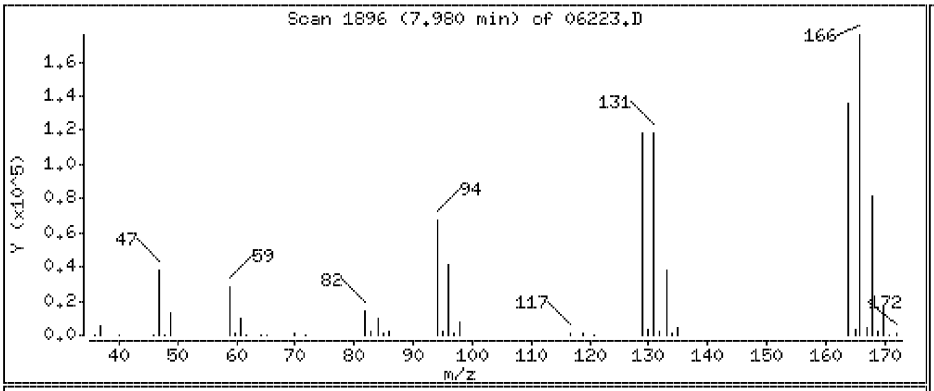
Operator: MJL

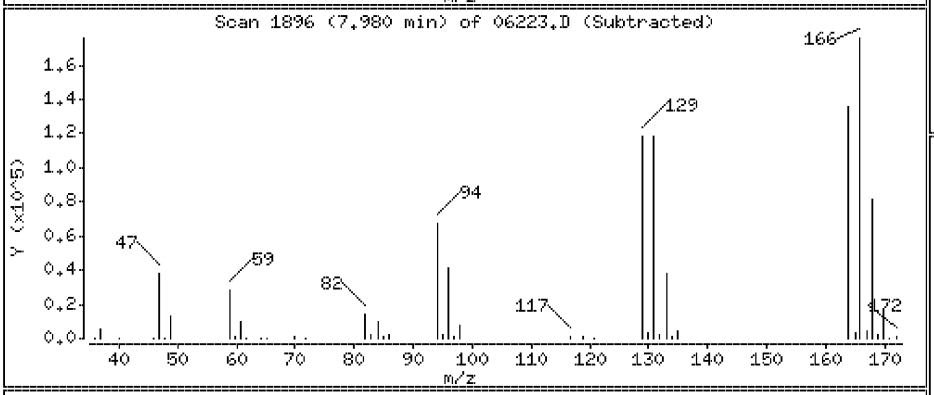
Column phase: J&W DB-5

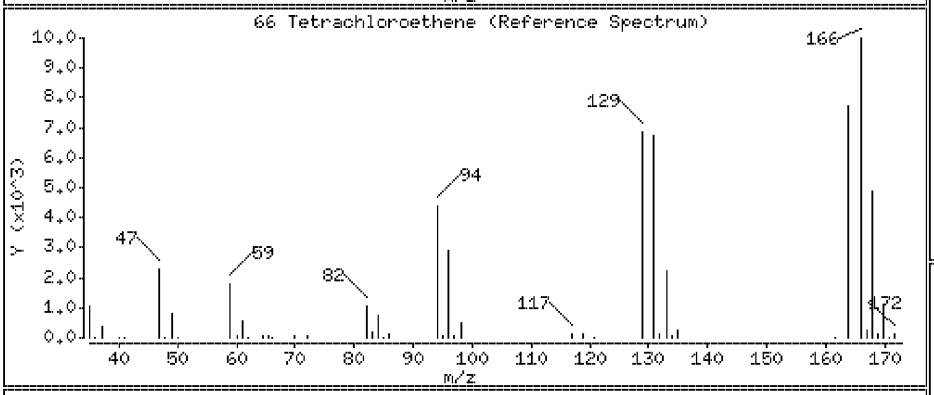
Column diameter: 0.32

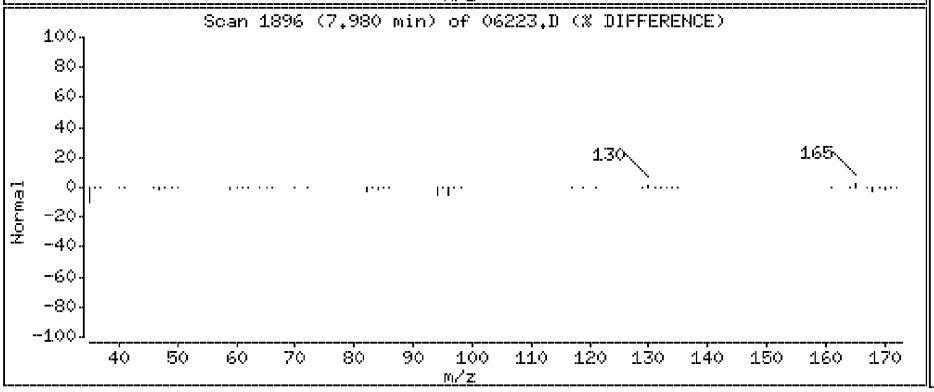
66 Tetrachloroethene

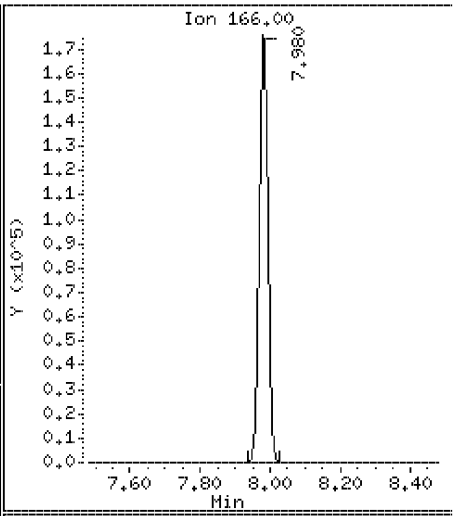
Concentration: 17.1 ppbv

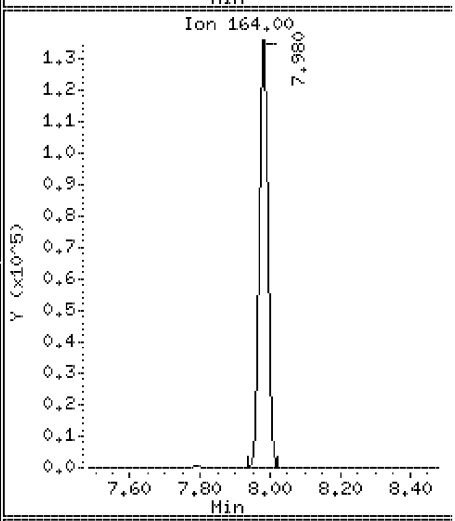


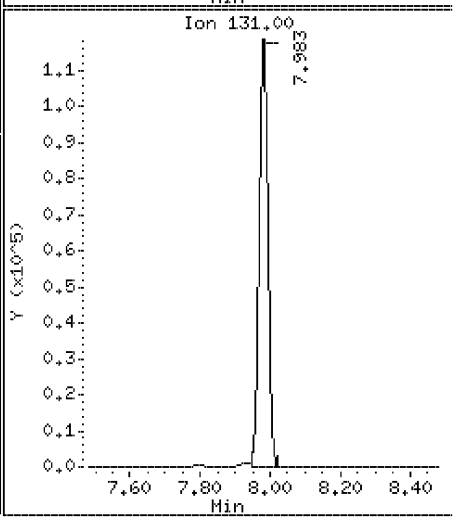












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06223.D

Date : 03-MAR-2017 18:58

Client ID:

Instrument: 10airB.i

Sample Info:

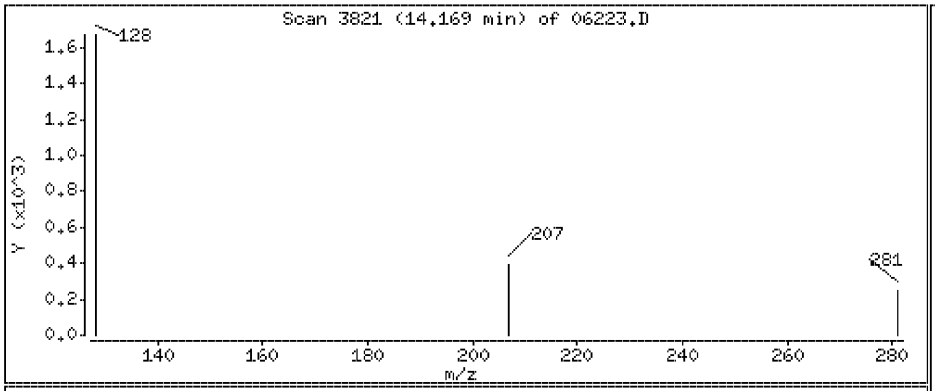
Operator: MJL

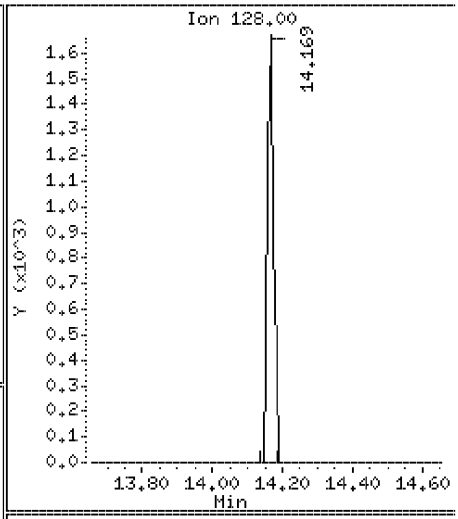
Column phase: J&W DB-5

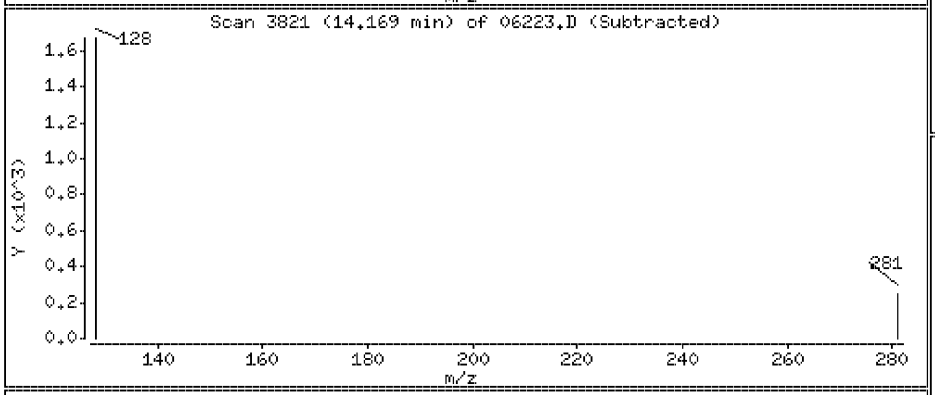
Column diameter: 0.32

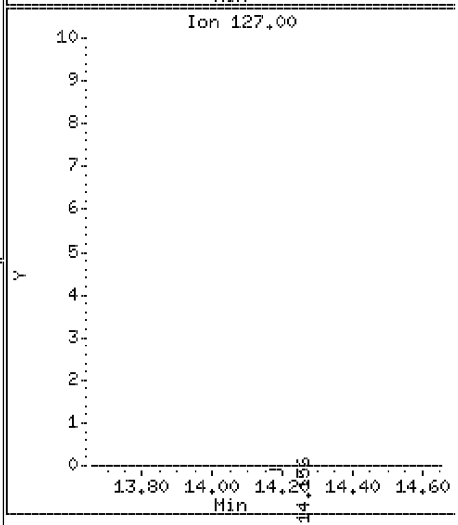
94 Naphthalene

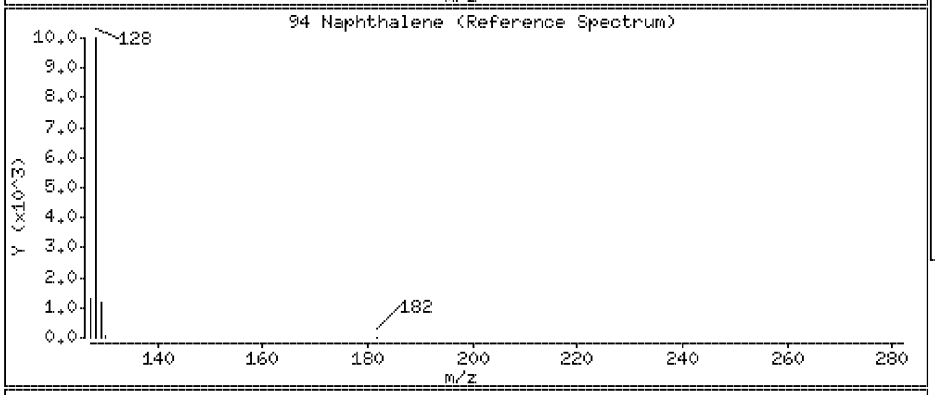
Concentration: 0.686 ppbv

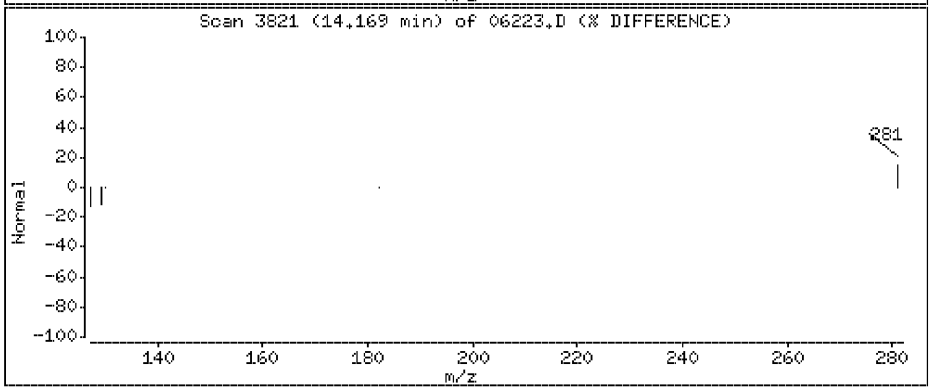






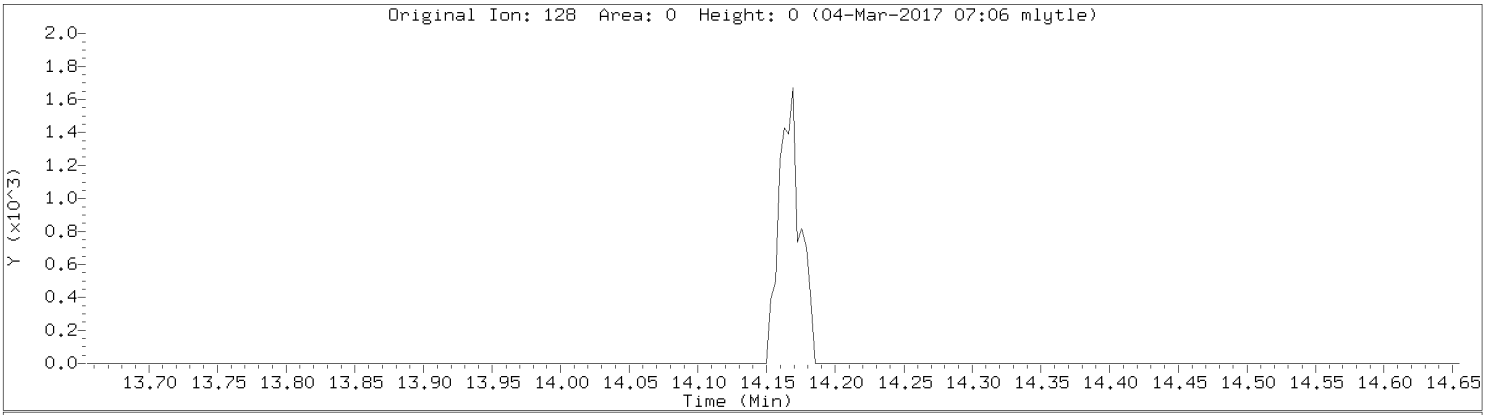


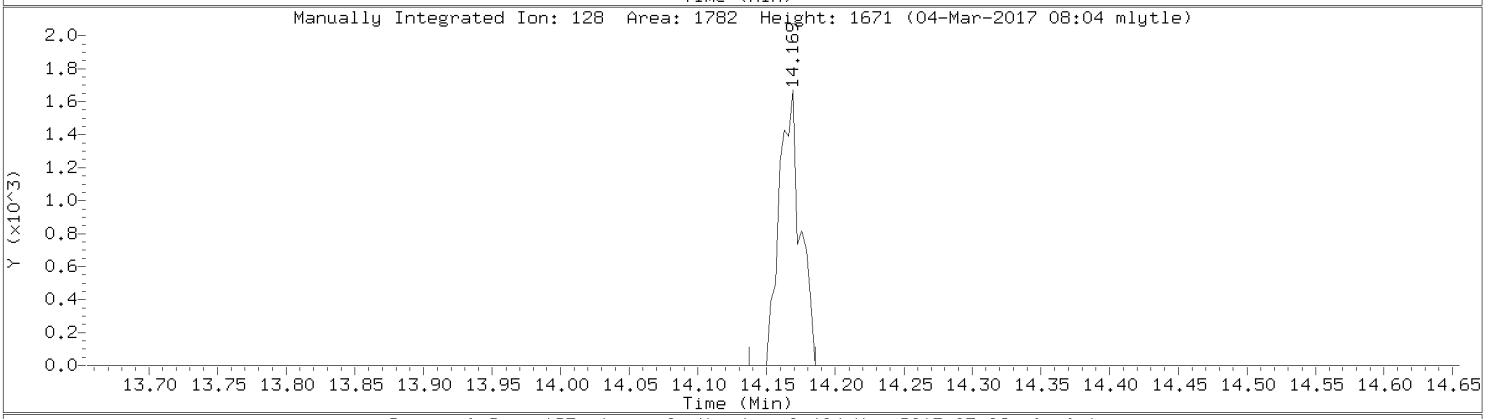


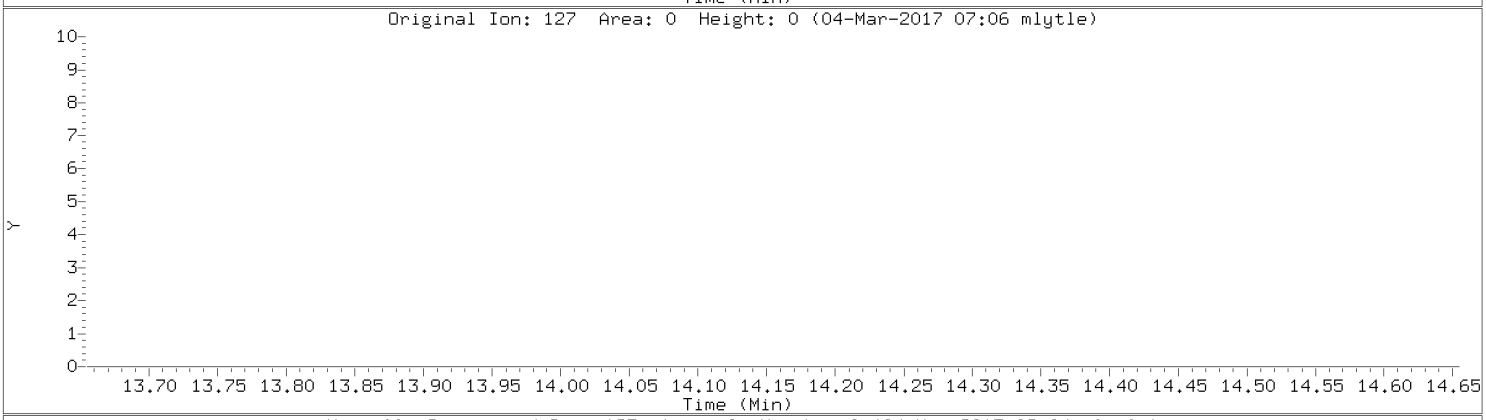


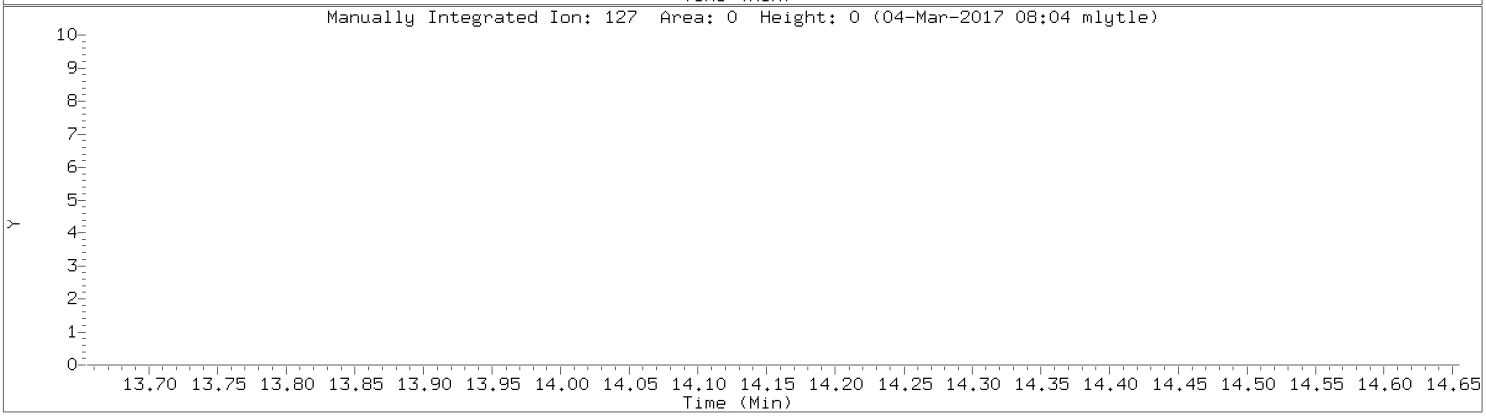
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06223.D
Injection Date: 03-MAR-2017 18:58
Instrument: 10airB.i
Lab Sample ID: 10379929005

Compound: Naphthalene
CAS Number: 91-20-3



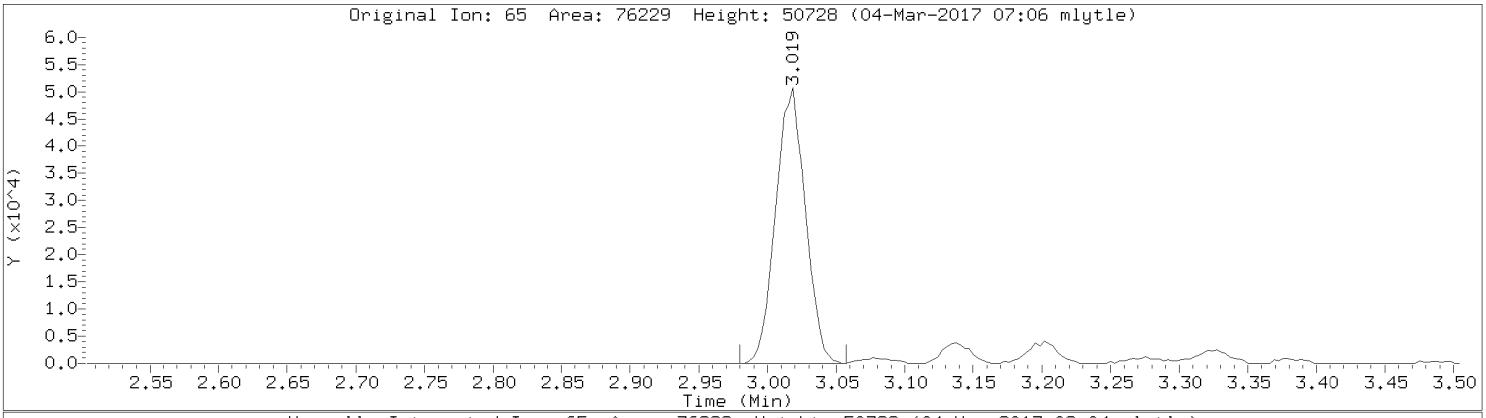


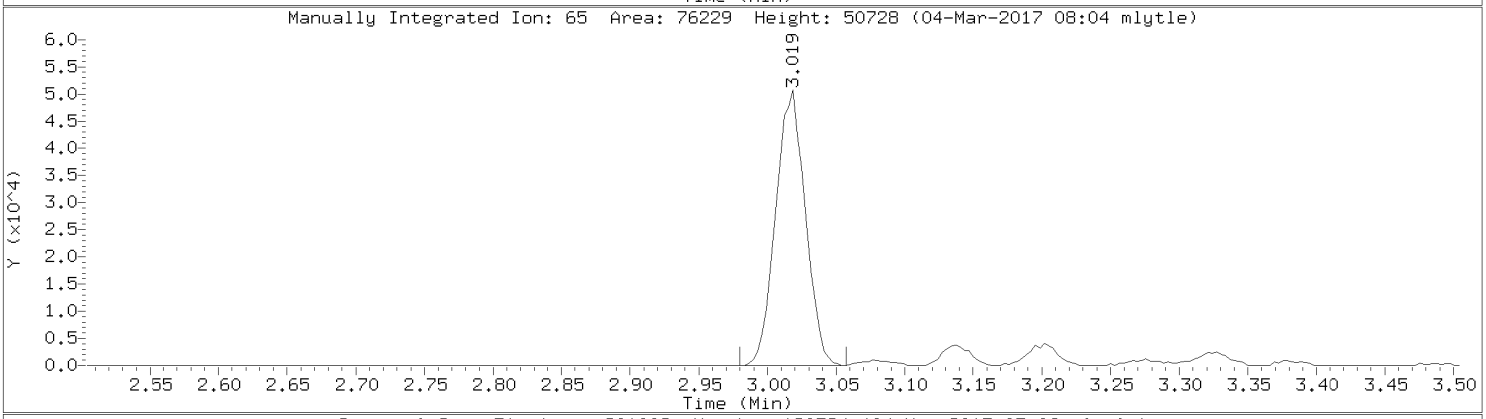


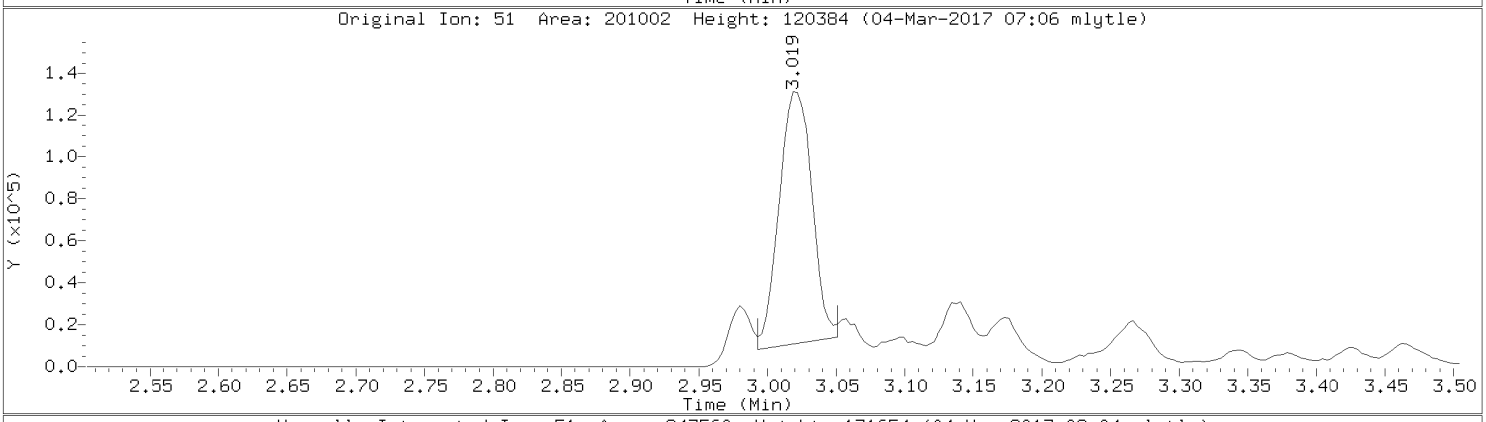


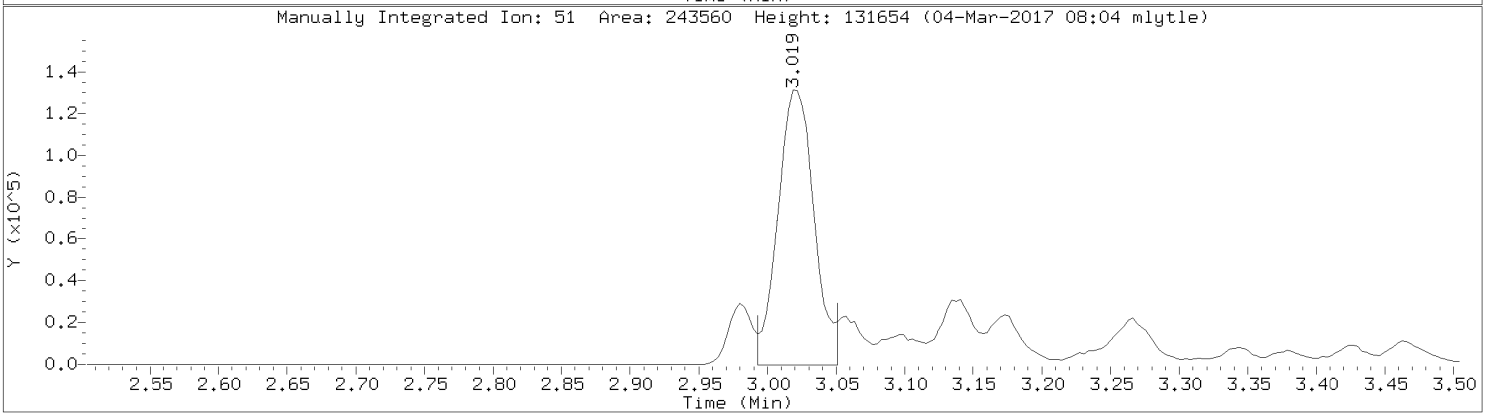
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06223.D
Injection Date: 03-MAR-2017 18:58
Instrument: 10airB.i
Lab Sample ID: 10379929005

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

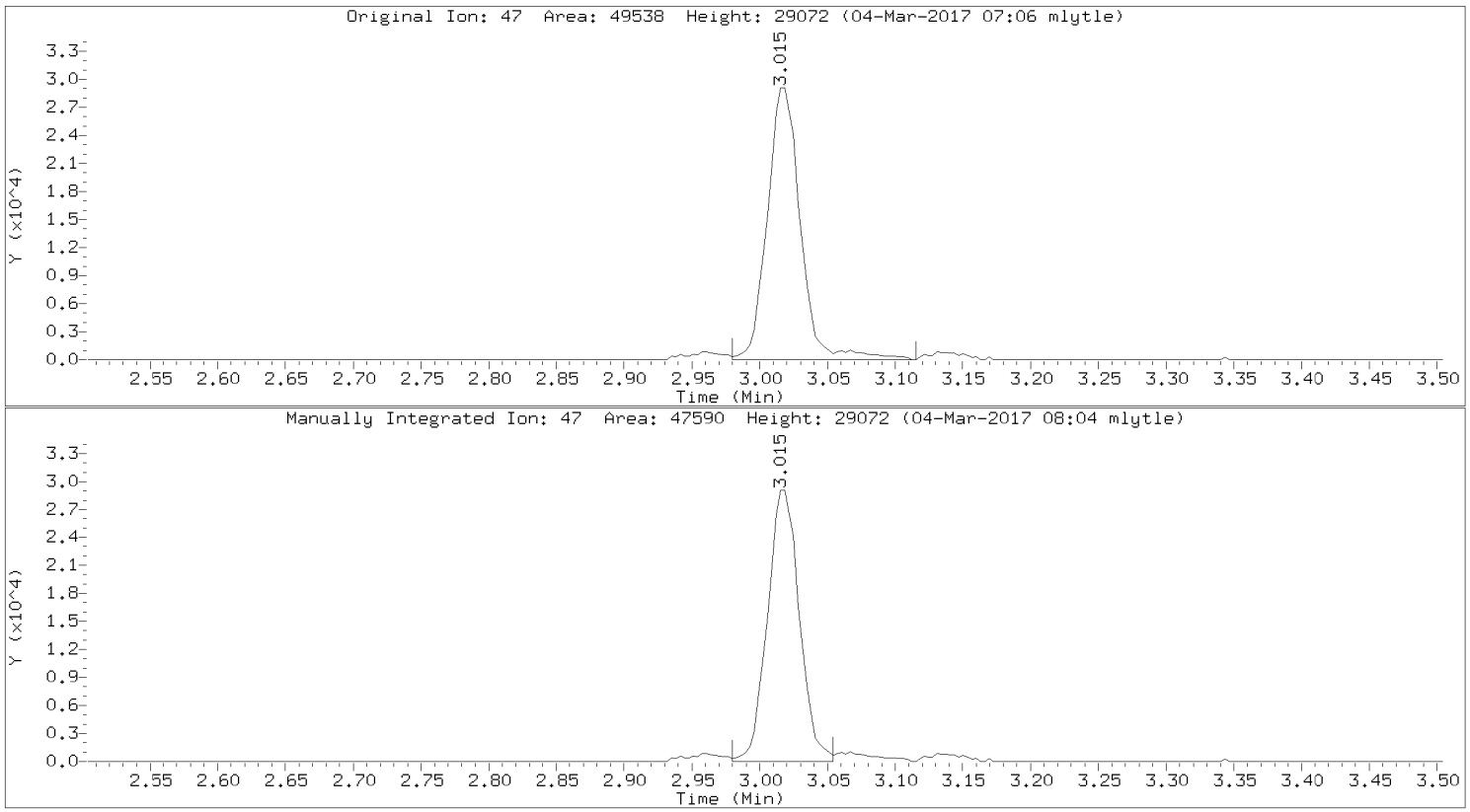








Data File: \\192.168.10.12\chem\10airB.i\030317.b/06223.D
Injection Date: 03-MAR-2017 18:58
Instrument: 10airB.i
Lab Sample ID: 10379929005



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_40_20170221 **Lab ID: 10379929005** Collected: 02/21/17 12:37 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**1.1J**	ug/m3	4.4	0.42	1.75		03/03/17 18:58	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/03/17 18:58	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 18:58	79-34-5	
Tetrachloroethene	**118**	ug/m3	1.2	0.49	1.75		03/03/17 18:58	127-18-4	
Toluene	**1.0J**	ug/m3	1.3	0.27	1.75		03/03/17 18:58	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 18:58	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/03/17 18:58	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 18:58	79-00-5	
Trichloroethene	**194**	ug/m3	0.96	0.48	1.75		03/03/17 18:58	79-01-6	
Trichlorofluoromethane	**5.6**	ug/m3	2.0	0.23	1.75		03/03/17 18:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	**95.1**	ug/m3	2.8	0.53	1.75		03/03/17 18:58	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/03/17 18:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 18:58	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 18:58	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/03/17 18:58	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/03/17 18:58	95-47-6	

Sample: VP-104_50_20170221 **Lab ID: 10379929006** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**9.2**	ug/m3	4.2	1.5	1.75		03/03/17 19:29	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 19:29	107-05-1	
Benzene	**0.47J**	ug/m3	0.57	0.21	1.75		03/03/17 19:29	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 19:29	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 19:29	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 19:29	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 19:29	106-99-0	
2-Butanone (MEK)	**1.8J**	ug/m3	5.2	0.40	1.75		03/03/17 19:29	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 19:29	75-15-0	
Carbon tetrachloride	**1.0J**	ug/m3	1.1	0.34	1.75		03/03/17 19:29	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 19:29	108-90-7	
Chlorodifluoromethane	**156**	ug/m3	1.3	0.48	1.75		03/03/17 19:29	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 19:29	75-00-3	
Chloroform	**44.7**	ug/m3	0.87	0.33	1.75		03/03/17 19:29	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/03/17 19:29	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 19:29	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 19:29	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 19:29	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 19:29	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 19:29	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 19:29	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 19:29	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_50_20170221 **Lab ID: 10379929006** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 19:29	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.8	0.84	1.75		03/03/17 19:29	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 19:29	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 19:29	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 19:29	75-35-4	
cis-1,2-Dichloroethene	**143**	ug/m3	1.4	0.43	1.75		03/03/17 19:29	156-59-2	
trans-1,2-Dichloroethene	**3.3**	ug/m3	1.4	0.67	1.75		03/03/17 19:29	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 19:29	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 19:29	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 19:29	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 19:29	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 19:29	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 19:29	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/03/17 19:29	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/03/17 19:29	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 19:29	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.62	1.75		03/03/17 19:29	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 19:29	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 19:29	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 19:29	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 19:29	108-87-2	
Methylene Chloride	**5.6J**	ug/m3	6.2	0.95	1.75		03/03/17 19:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 19:29	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 19:29	1634-04-4	
2-Propanol	**3.2J**	ug/m3	4.4	0.42	1.75		03/03/17 19:29	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/03/17 19:29	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 19:29	79-34-5	
Tetrachloroethene	**487**	ug/m3	1.2	0.49	1.75		03/03/17 19:29	127-18-4	
Tetrachloroethene	**638**	ug/m3	48.3	9.7	35		03/05/17 13:20	127-18-4	
Toluene	**29.3**	ug/m3	1.3	0.27	1.75		03/03/17 19:29	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 19:29	120-82-1	
1,1,1-Trichloroethane	**1.4J**	ug/m3	1.9	0.43	1.75		03/03/17 19:29	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 19:29	79-00-5	
Trichloroethene	**823**	ug/m3	0.96	0.48	1.75		03/03/17 19:29	79-01-6	
Trichloroethene	**1260**	ug/m3	19.2	9.7	35		03/05/17 13:20	79-01-6	
Trichlorofluoromethane	**15.2**	ug/m3	2.0	0.23	1.75		03/03/17 19:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	**58.2**	ug/m3	2.8	0.53	1.75		03/03/17 19:29	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/03/17 19:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 19:29	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 19:29	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/03/17 19:29	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/03/17 19:29	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06410.D
Report Date: 06-Mar-2017 12:19

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06410.D
Lab Smp Id: 10379929006
Inj Date : 05-MAR-2017 13:20
Operator : CH1 Inst ID: 10air7.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 10
Dil Factor: 35.00000
Integrator: HP RTE Compound Sublist: TCE_PCE.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	35.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
$	32 Hexane-d14(S)	66	3.517	3.520	(0.782)	246175	12.4483	12.4
	44 Carbon tetrachloride	117	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	4.497	4.504	(1.000)	724530	10.0000	
	51 Trichloroethene	130	4.828	4.835	(1.074)	226029	6.61208	231
$	59 Toluene-d8 (S)	98	5.828	5.835	(1.296)	599964	9.86454	9.86
	66 Tetrachloroethene	166	6.680	6.683	(0.915)	119554	2.64357	92.5
*	67 Chlorobenzene - d5	117	7.304	7.310	(1.000)	456121	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	10.484	10.487	(1.435)	155919	8.35488	8.35

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06410.D
Report Date: 06-Mar-2017 12:19

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06410.D
Lab Smp Id: 10379929006
Analysis Type: VOA
Quant Type: ISTD
Operator: CH1
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info: 27830

Calibration Date: 05-MAR-2017
Calibration Time: 10:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

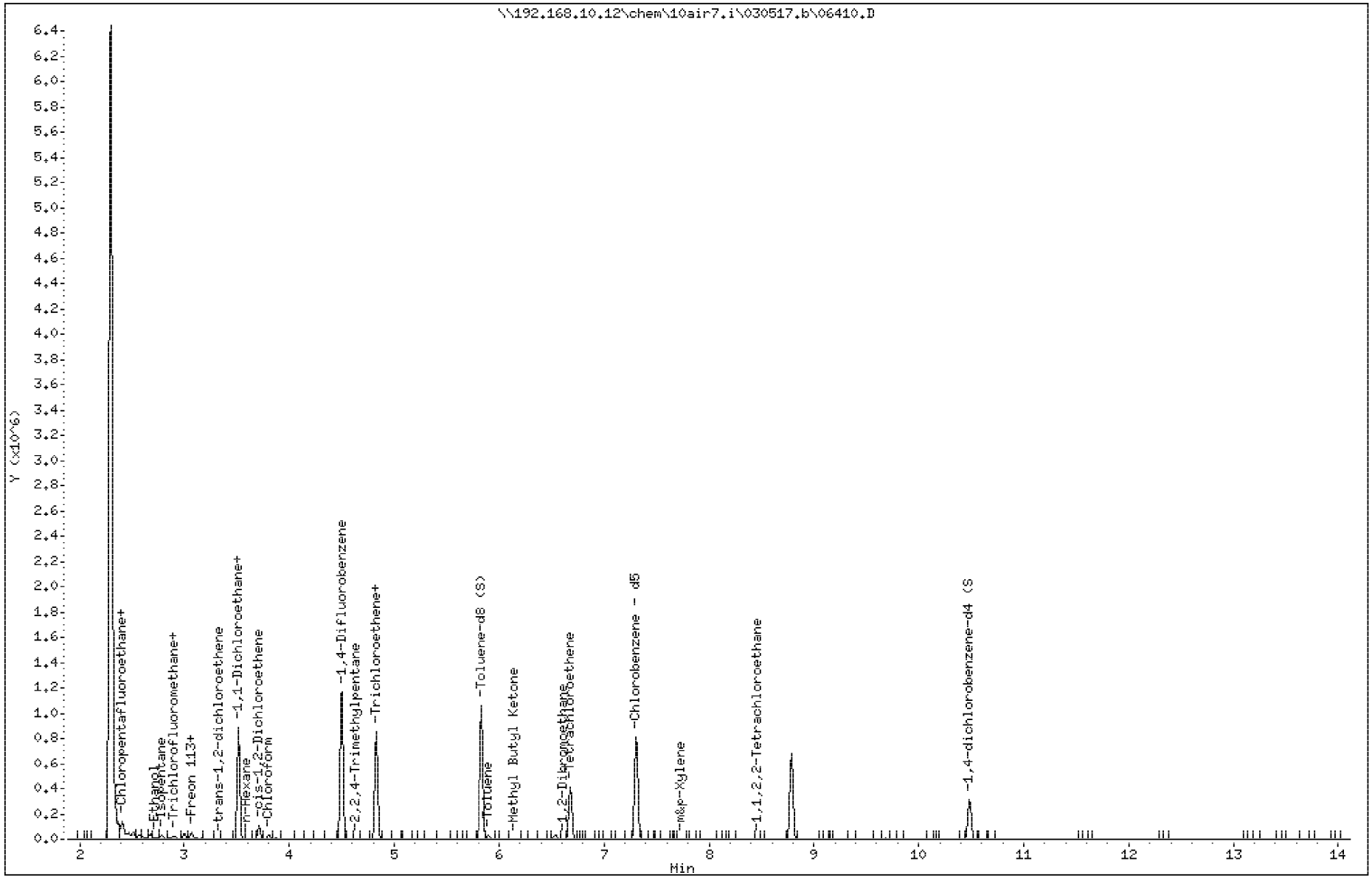
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	724530	-13.33
67 Chlorobenzene - d	539522	323713	755331	456121	-15.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.50	4.17	4.83	4.50	-0.14
67 Chlorobenzene - d	7.31	6.98	7.64	7.30	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06410.D
Date : 05-MAR-2017 13:20
Client ID:
Sample Info:

Instrument: 10air7.i
Operator: CH1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06410.D

Date : 05-MAR-2017 13:20

Client ID:

Instrument: 10air7.i

Sample Info:

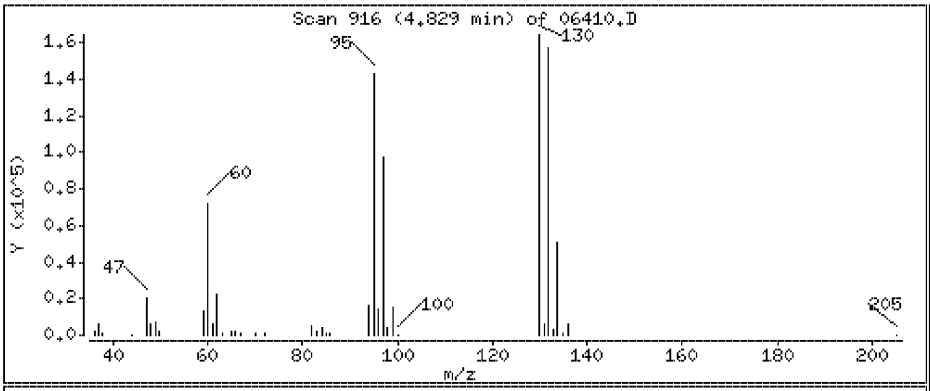
Operator: CH1

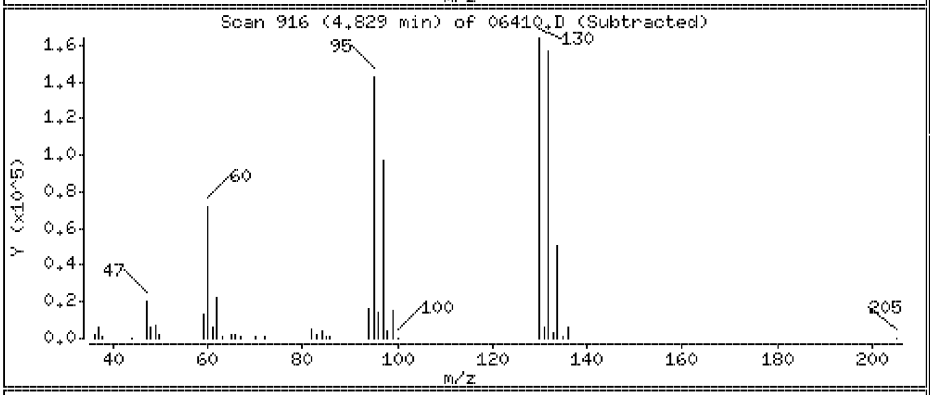
Column phase: J&W DB-5

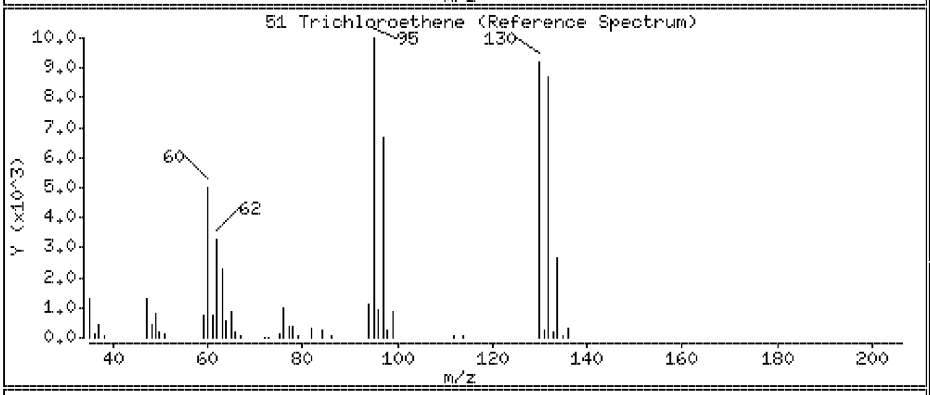
Column diameter: 0.32

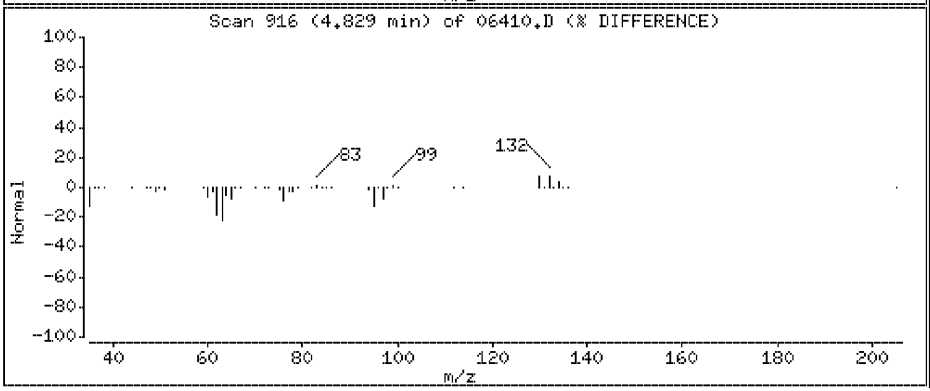
51 Trichloroethene

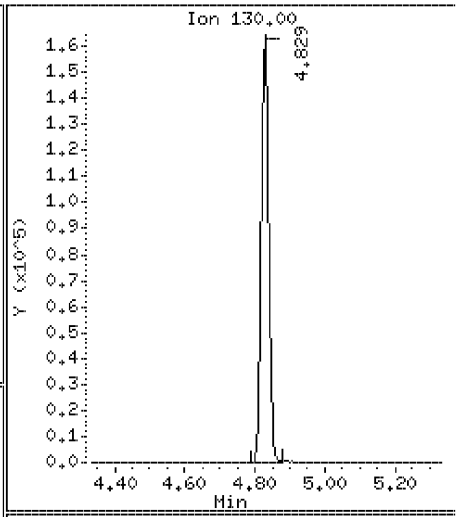
Concentration: 231 ppbv

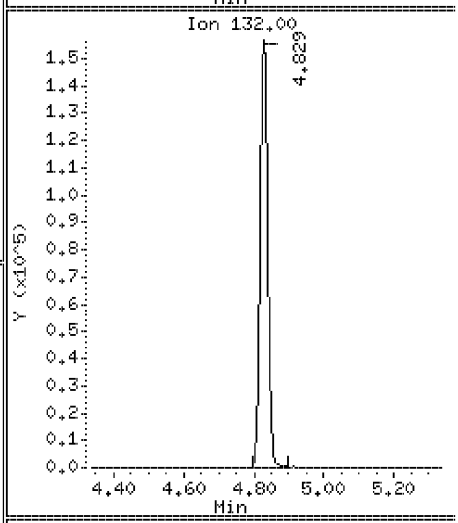


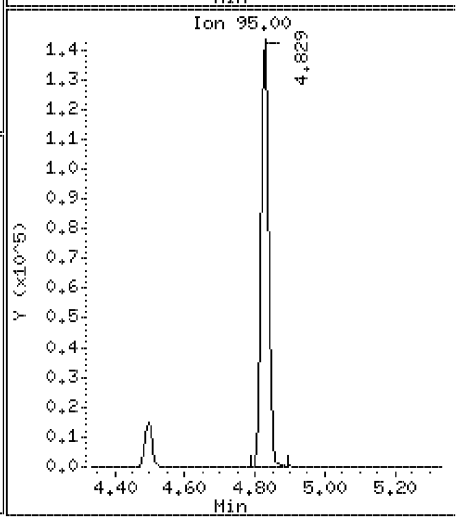












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06410.D

Date : 05-MAR-2017 13:20

Client ID:

Instrument: 10air7.i

Sample Info:

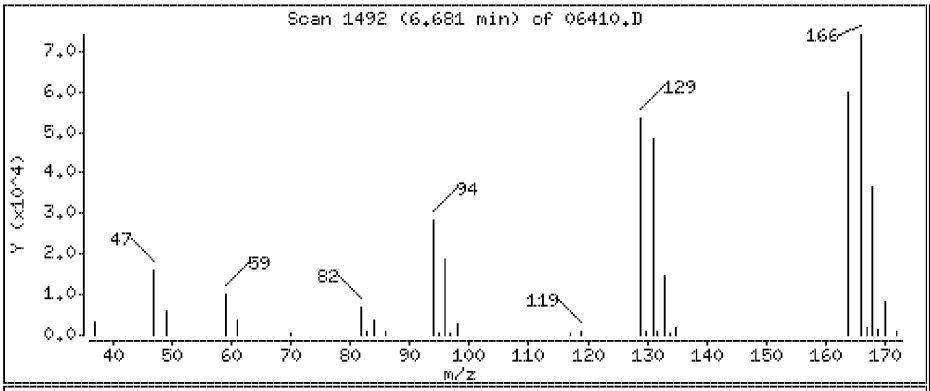
Operator: CH1

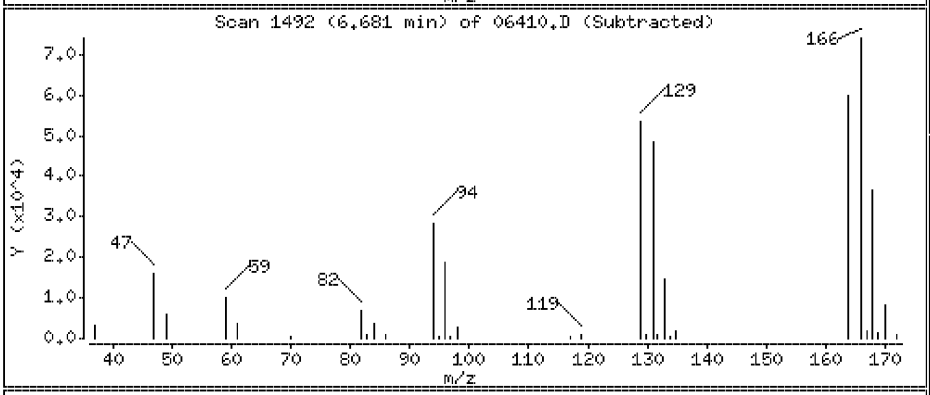
Column phase: J&W DB-5

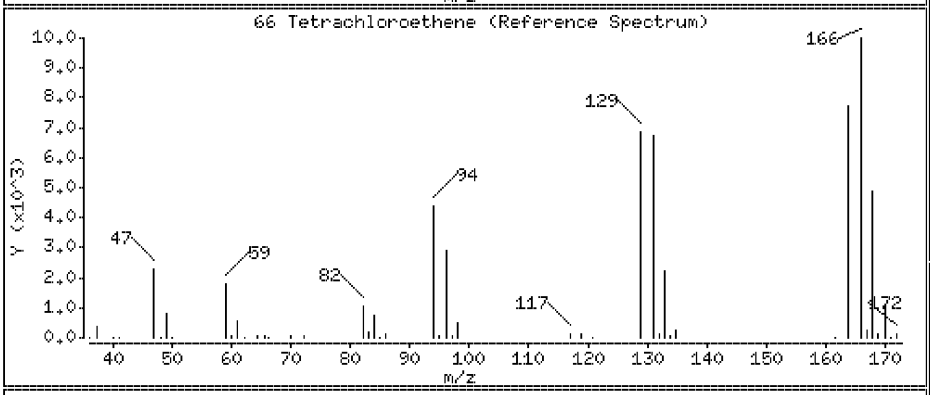
Column diameter: 0.32

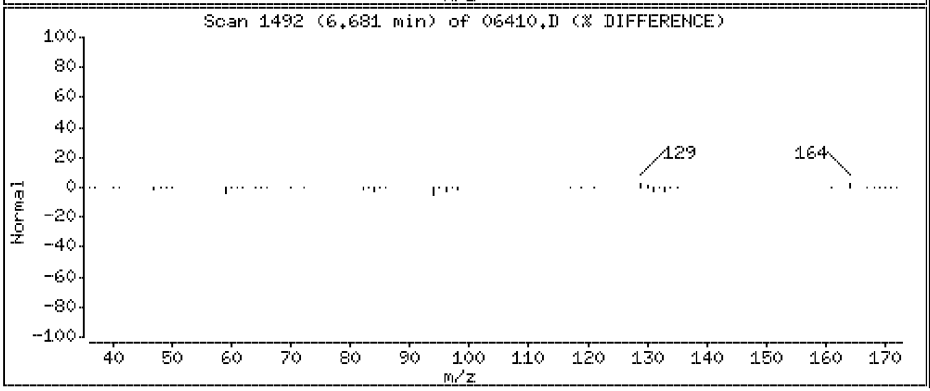
66 Tetrachloroethene

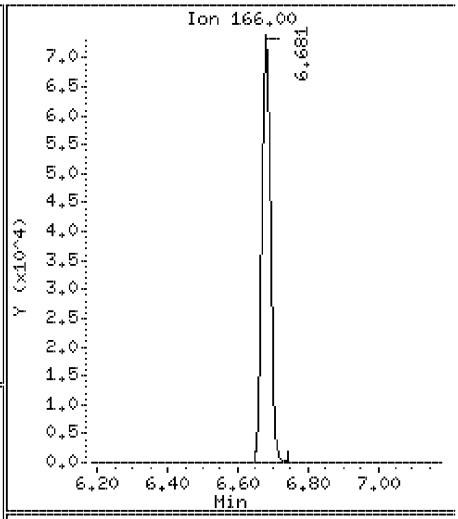
Concentration: 92.5 ppbv

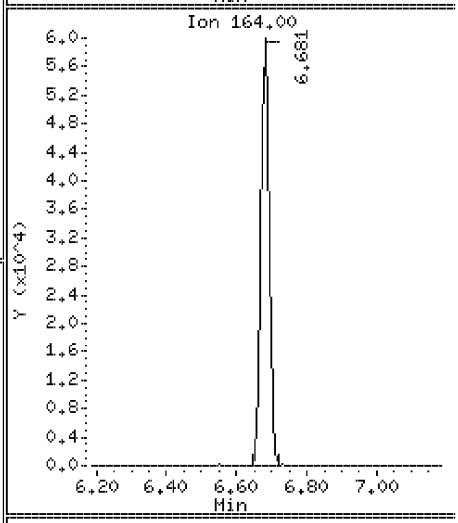


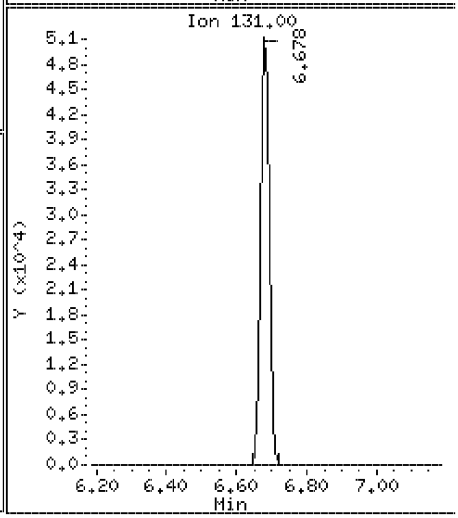












Data File: \\192.168.10.12\chem\10air7.i\030517.b/06410.D
Injection Date: 05-MAR-2017 13:20
Instrument: 10air7.i
Lab Sample ID: 10379929006
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D
Report Date: 09-Mar-2017 11:43

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030317.b\06224.D
Lab Smp Id: 10379929006
Inj Date : 03-MAR-2017 19:29
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Meth Date : 08-Mar-2017 14:01 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 24
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.015	3.015	(0.538)	84968	24.7284	43.3(QH)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.053	3.050	(0.545)	11836	0.26324	0.461	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.545	3.542	(0.632)	17207	3.82020	6.69	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.574	3.593	(0.638)	12888	0.92058	1.61(QM)	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.658	3.671	(0.652)	51069	1.51958	2.66	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.729	3.719	(0.665)	42461	2.18310	3.82	
19	Isopropyl Alcohol	45	3.774	3.764	(0.673)	14667	0.73941	1.29	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.947	3.944	(0.704)	108430	4.27252	7.48	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D
Report Date: 09-Mar-2017 11:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.983	4.002	(0.710)	12498	0.91041	1.59	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.253	4.272	(0.759)	5075	0.46277	0.810	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.487	(0.800)	366373	9.39405	9.39	
	33 Methyl Ethyl Ketone	72	4.565	4.555	(0.814)	1604	0.34763	0.608(Q)	
	34 n-Hexane	57	4.574	4.584	(0.816)	3532	0.18069	0.316(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.706	4.725	(0.839)	249249	20.3423	35.6(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.819	4.841	(0.860)	130573	5.14153	9.00	
	40 Tetrahydrofuran	42	5.015	4.992	(0.894)	1679	0.12369	0.216	
	41 1,1,1-Trichloroethane	97	5.224	5.230	(0.932)	4332	0.14500	0.254	
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.465	5.465	(0.975)	3294	0.08332	0.146	
	44 Carbon tetrachloride	117	5.475	5.484	(0.976)	2780	0.09311	0.163	
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.606	5.609	(1.000)	1225840	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.983	5.986	(1.067)	1773537	86.1091	151(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.073	7.072	(1.261)	1046295	9.53639	9.54	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.150	7.153	(1.275)	216147	4.36574	7.64	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.982	(0.924)	1118454	40.3864	70.7(A)	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	797540	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.073	9.079	(1.050)	4990	0.10838	0.190	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D
Report Date: 09-Mar-2017 11:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	449761	10.2372	10.2	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.166	14.156	(1.640)	2802	0.42474	0.743	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D
Report Date: 09-Mar-2017 11:43

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06224.D
Lab Smp Id: 10379929006
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Misc Info: 27830

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

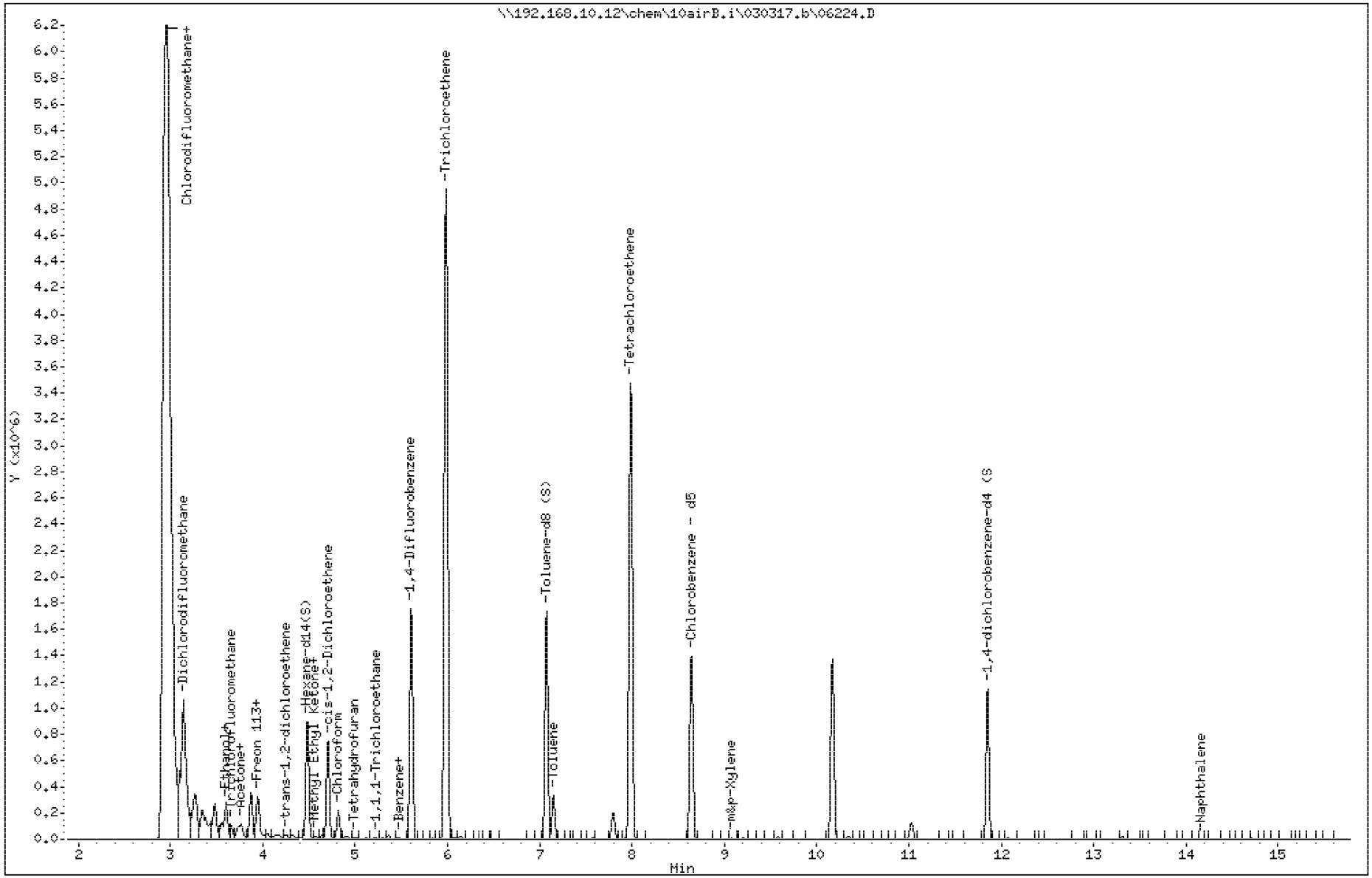
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1225840	-13.31
67 Chlorobenzene - d	951026	570616	1331436	797540	-16.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.05
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D
Date : 03-MAR-2017 19:29
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

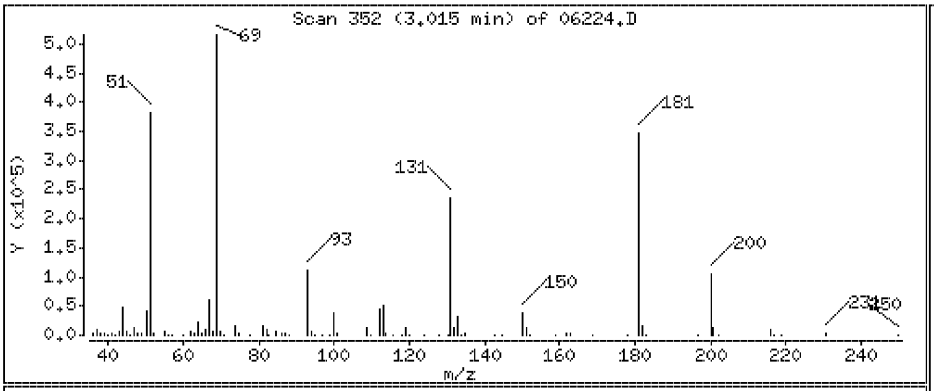
Operator: MJL

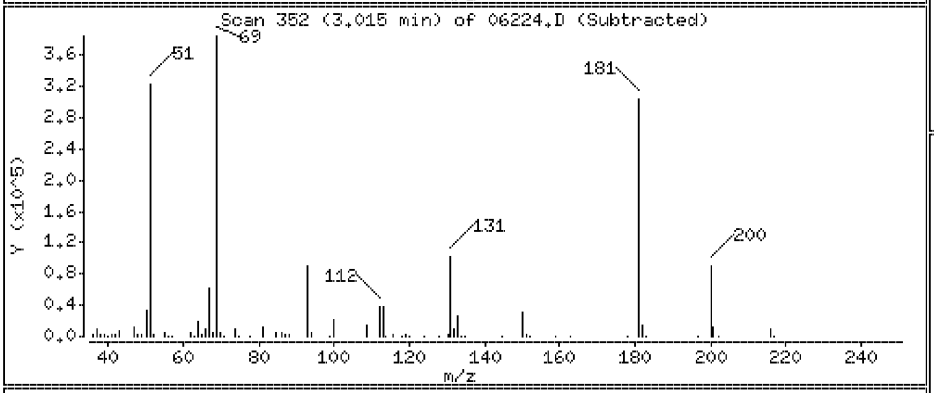
Column phase: J&W DB-5

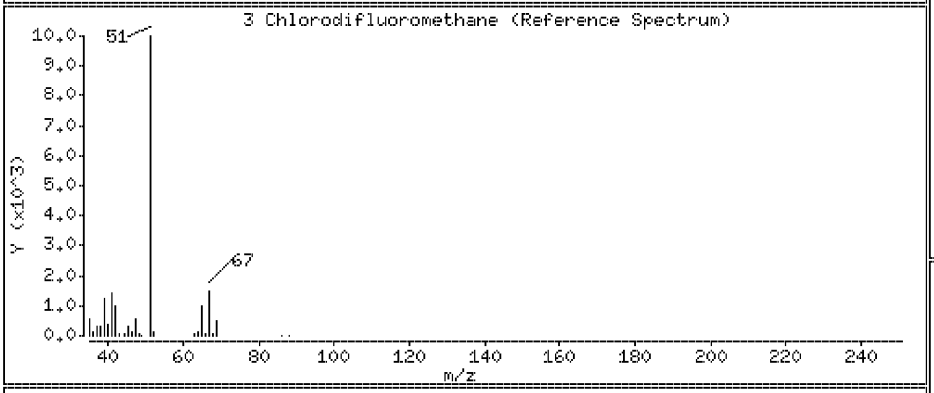
Column diameter: 0.32

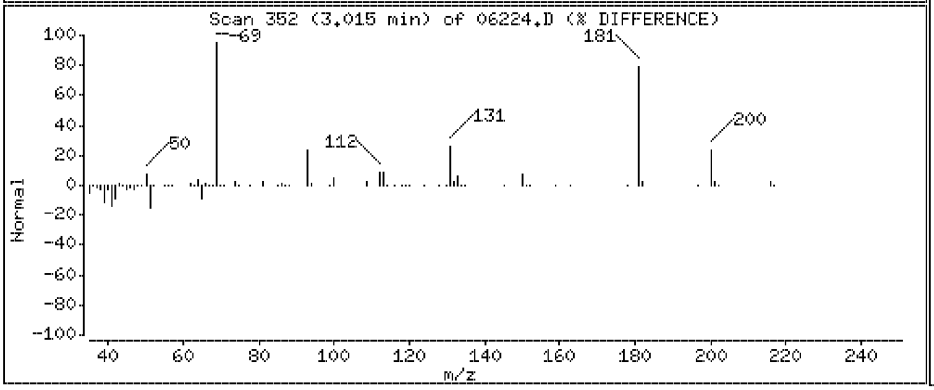
3 Chlorodifluoromethane

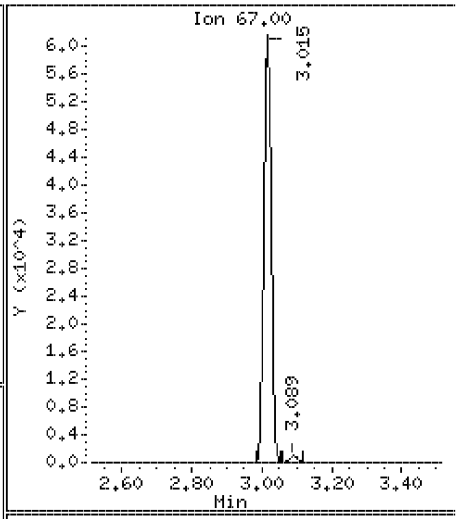
Concentration: 43.3 ppbv

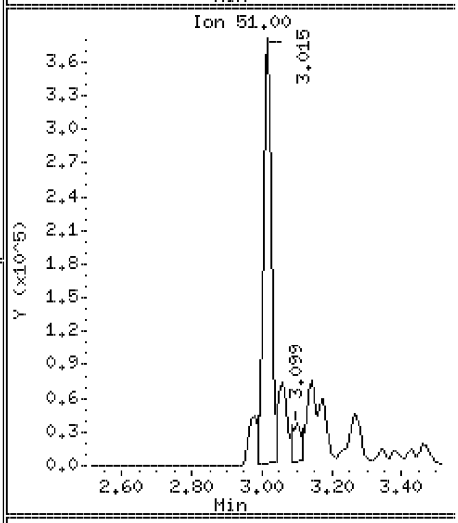


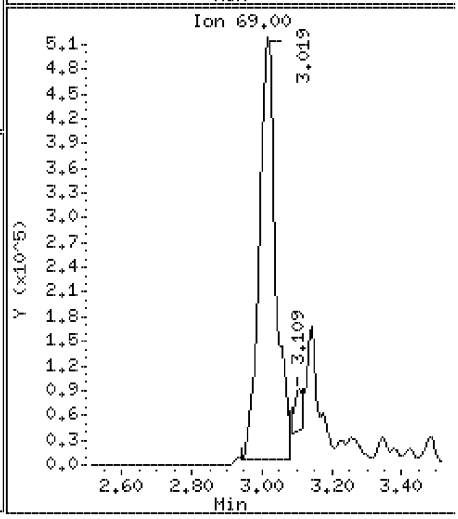












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

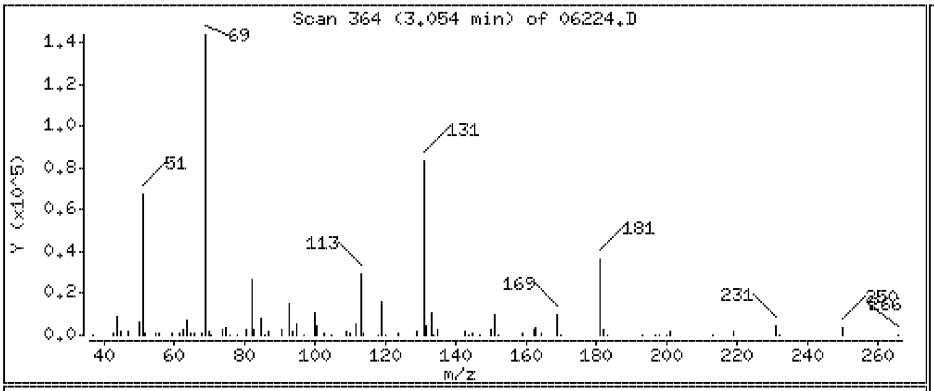
Operator: MJL

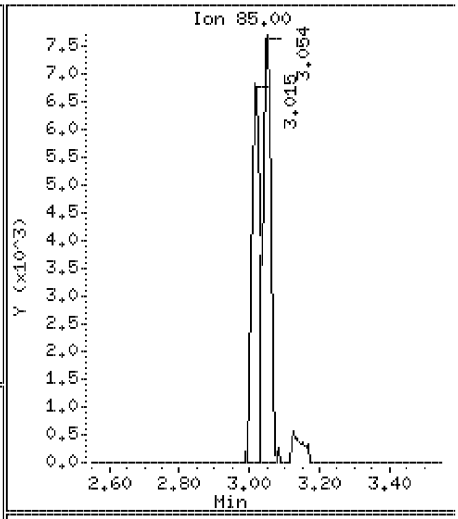
Column phase: J&W DB-5

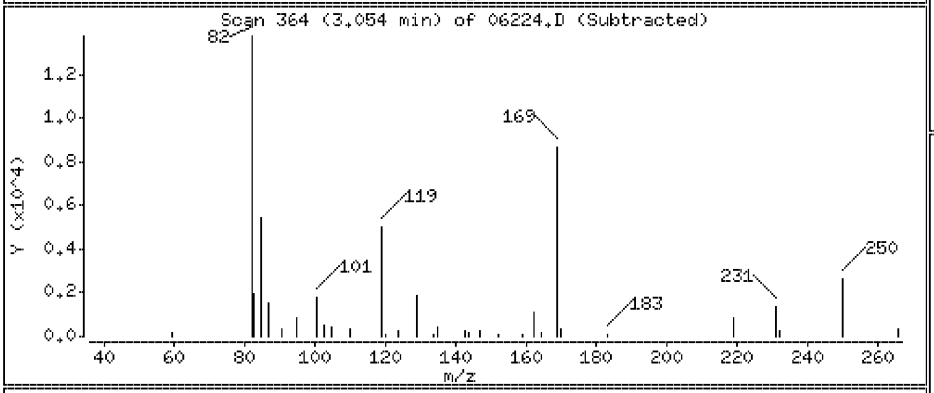
Column diameter: 0.32

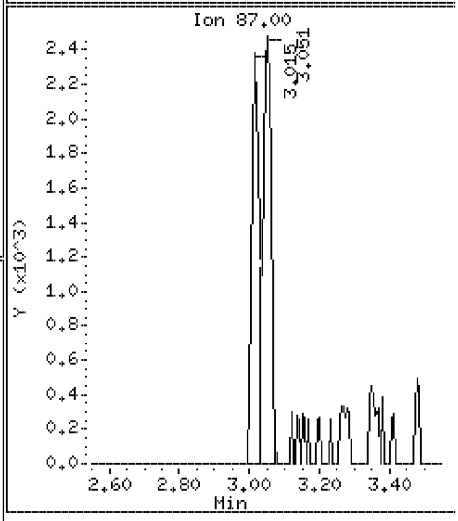
5 Dichlorodifluoromethane

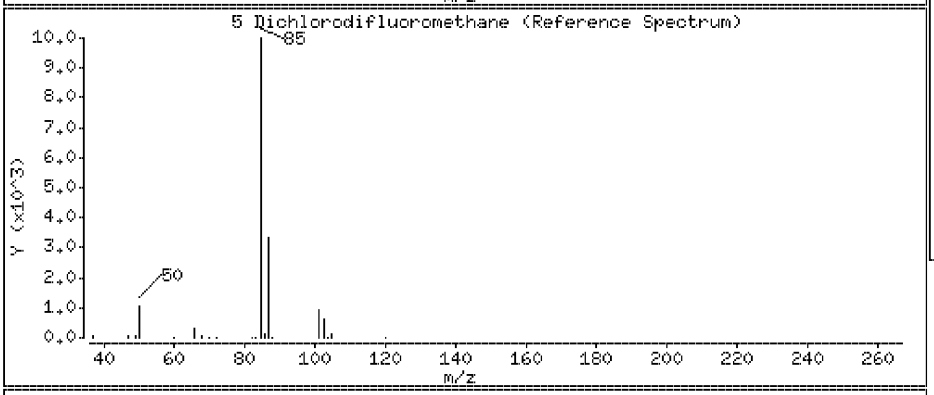
Concentration: 0.461 ppbv

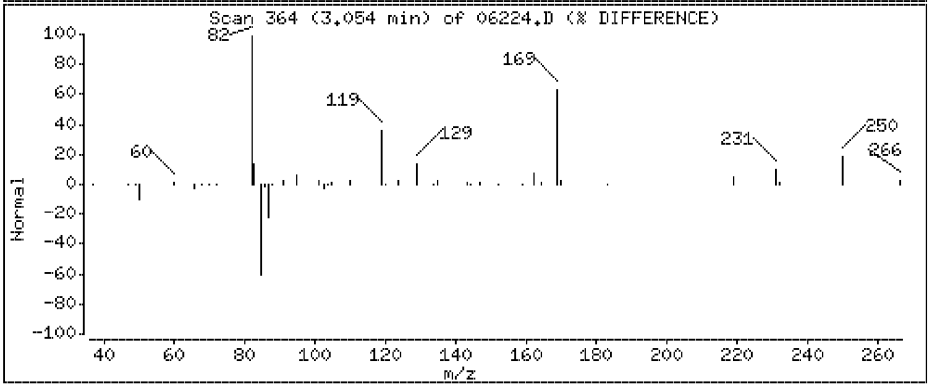












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

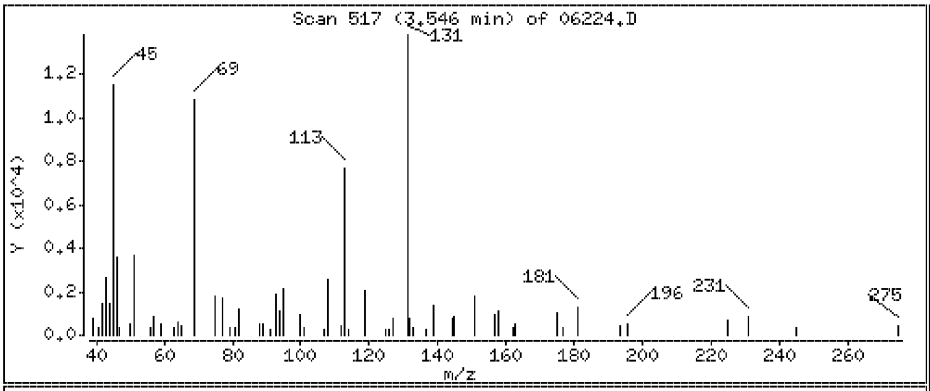
Operator: MJL

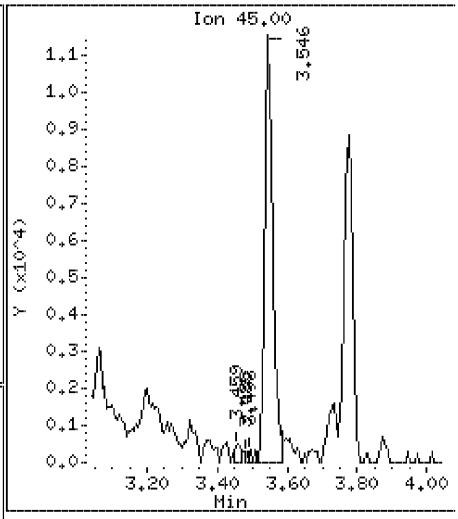
Column phase: J&W DB-5

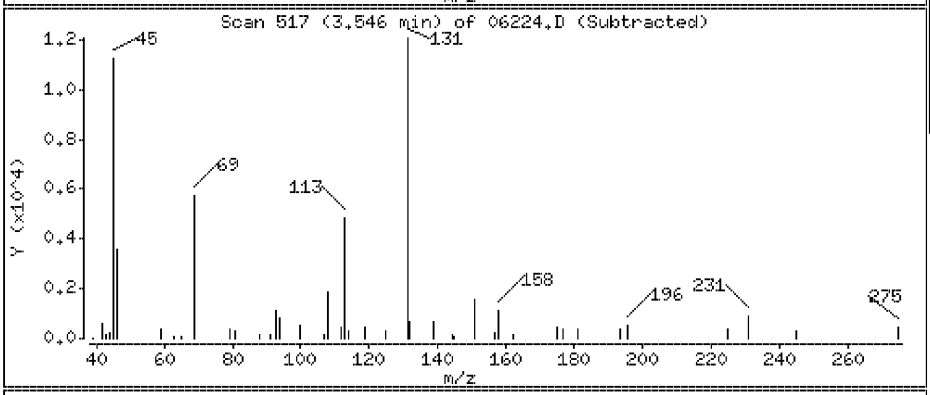
Column diameter: 0.32

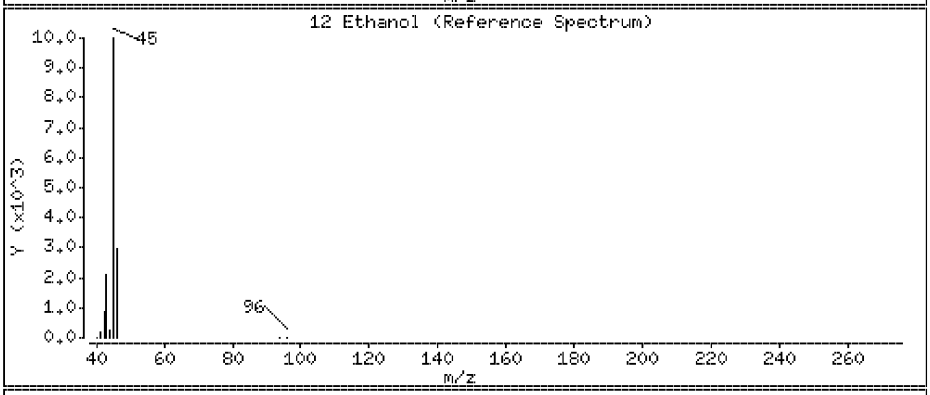
12 Ethanol

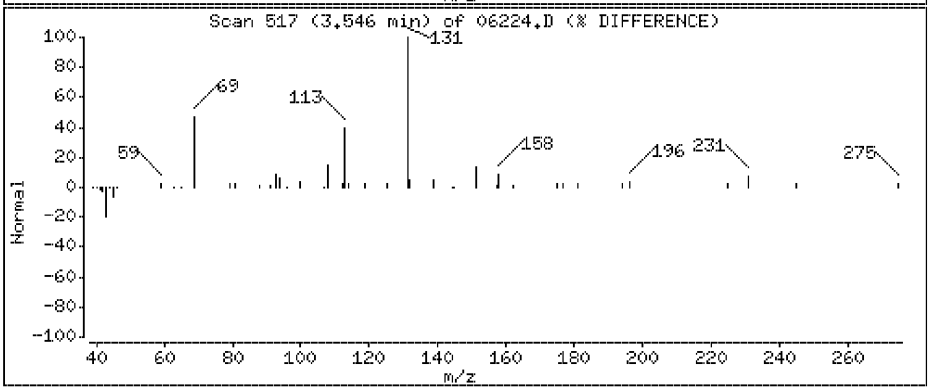
Concentration: 6.69 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

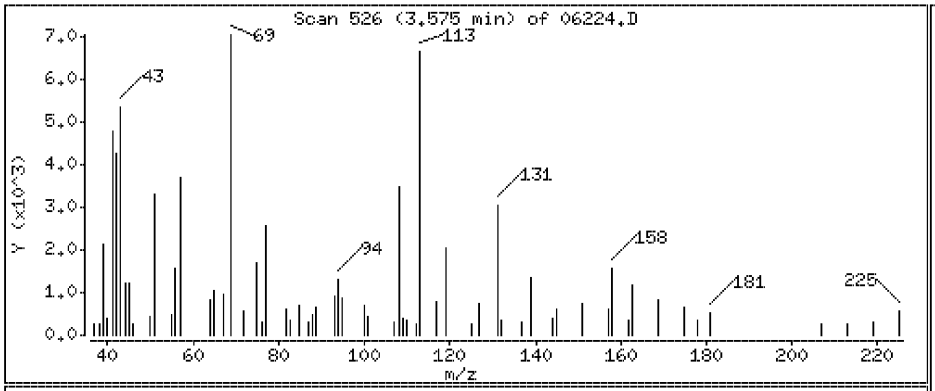
Operator: MJL

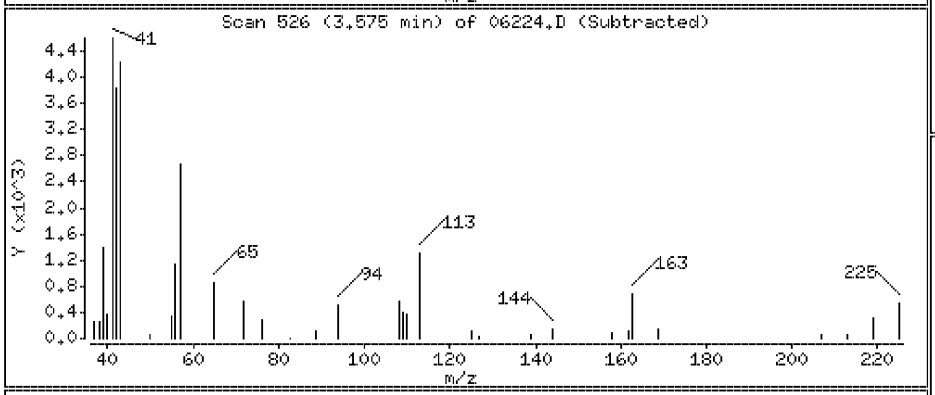
Column phase: J&W DB-5

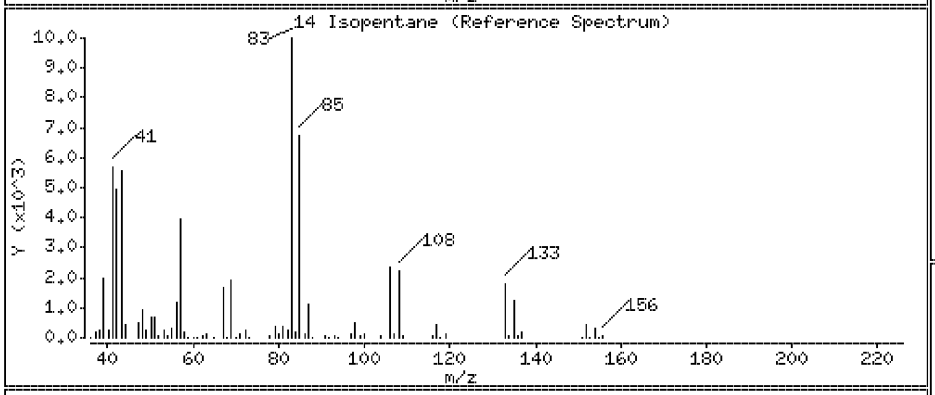
Column diameter: 0.32

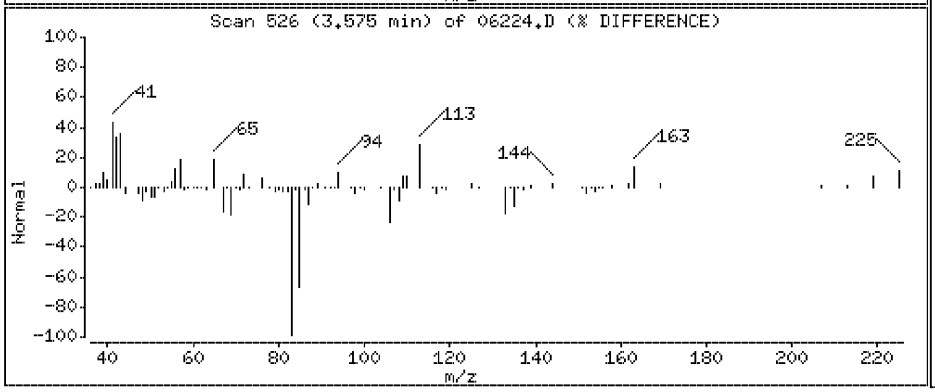
14 Isopentane

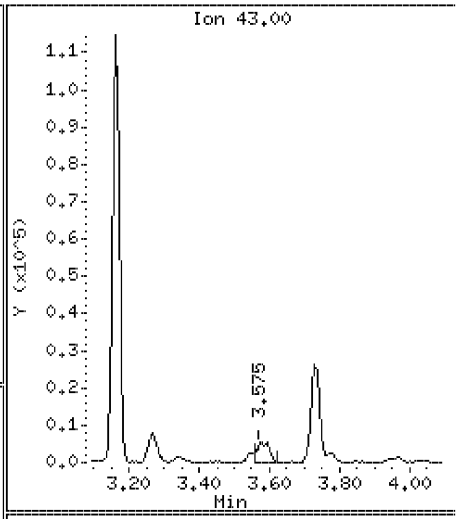
Concentration: 1.61 ppbv

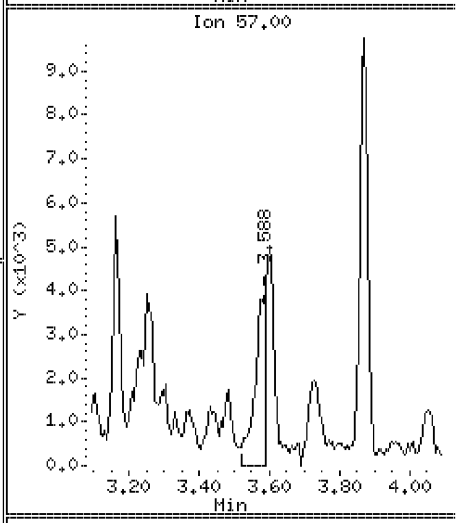


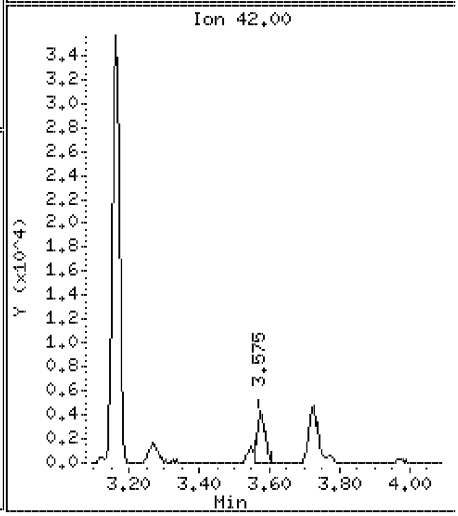












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

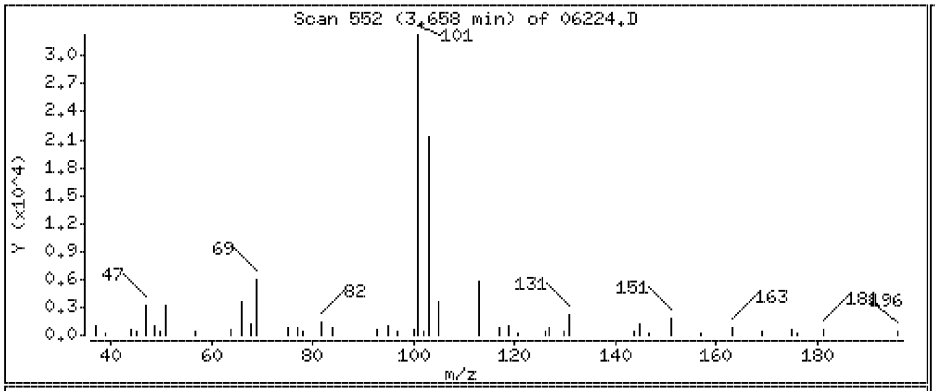
Operator: MJL

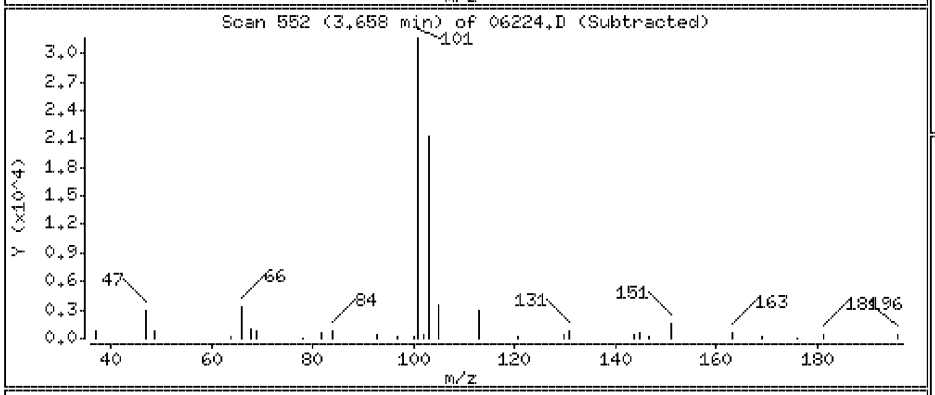
Column phase: J&W DB-5

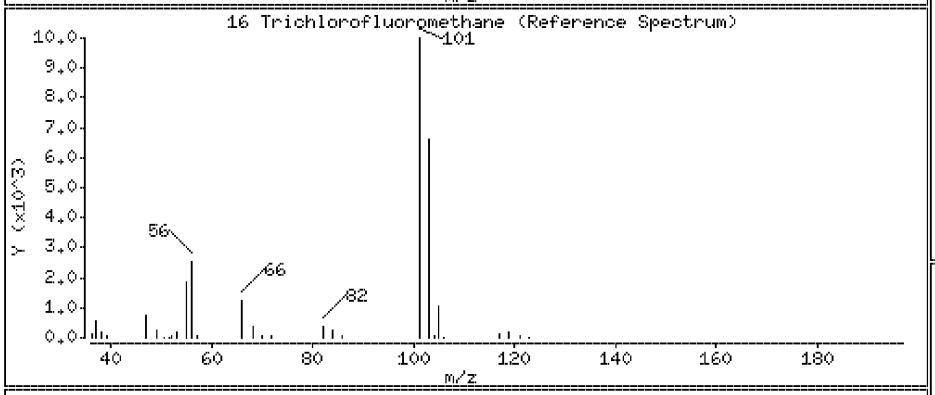
Column diameter: 0.32

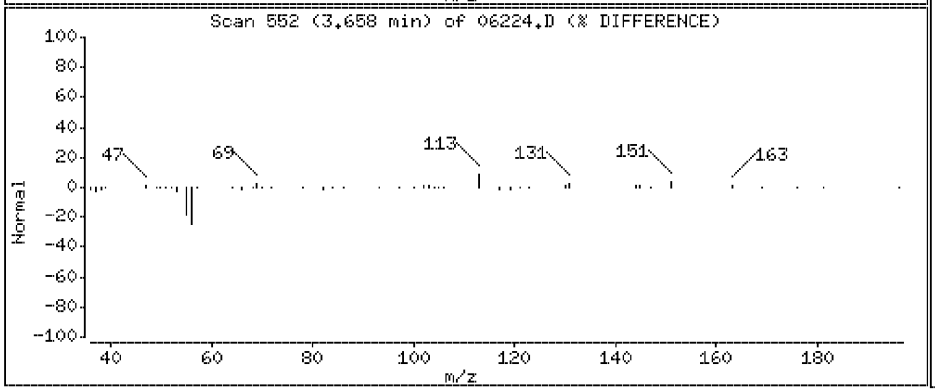
16 Trichlorofluoromethane

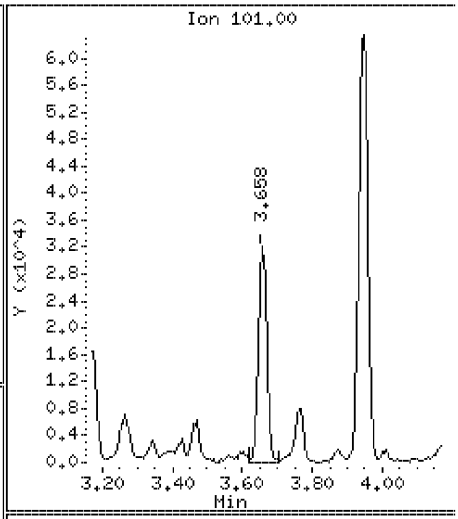
Concentration: 2.66 ppbv

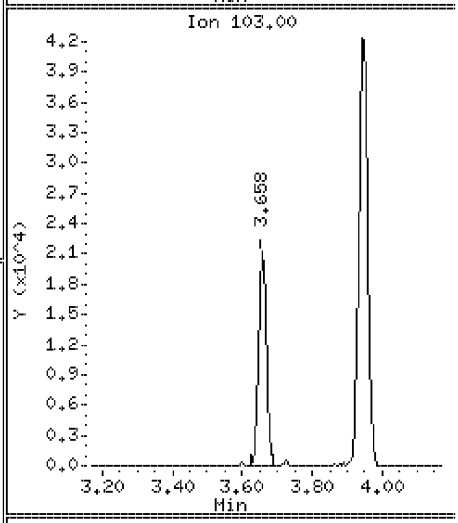


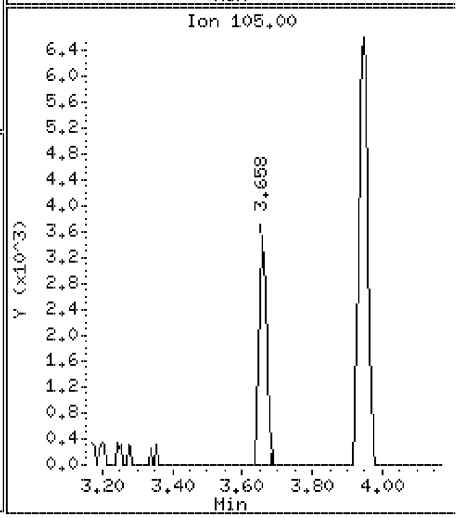












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

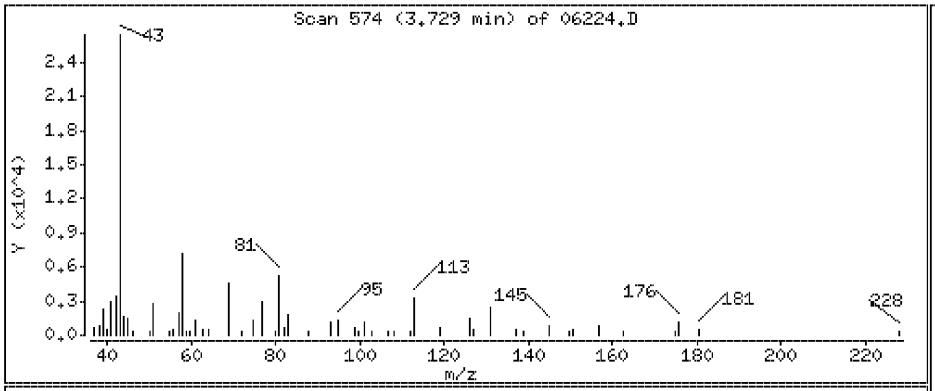
Operator: MJL

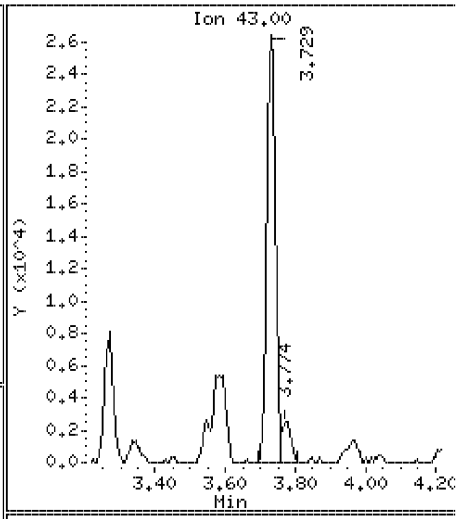
Column phase: J&W DB-5

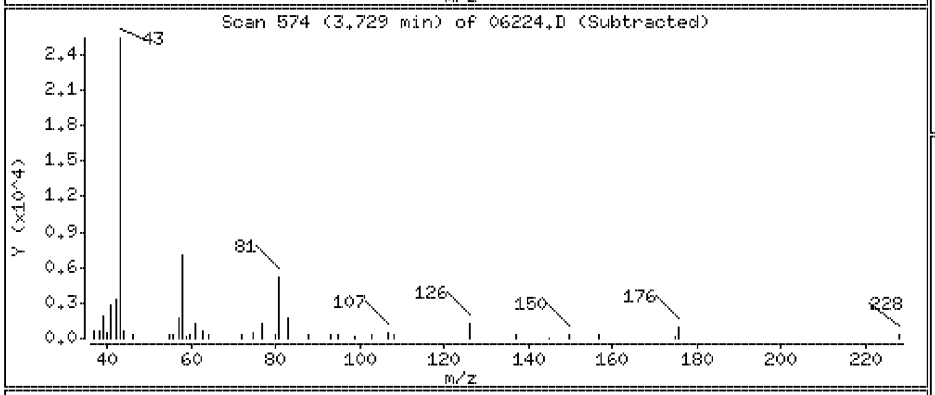
Column diameter: 0.32

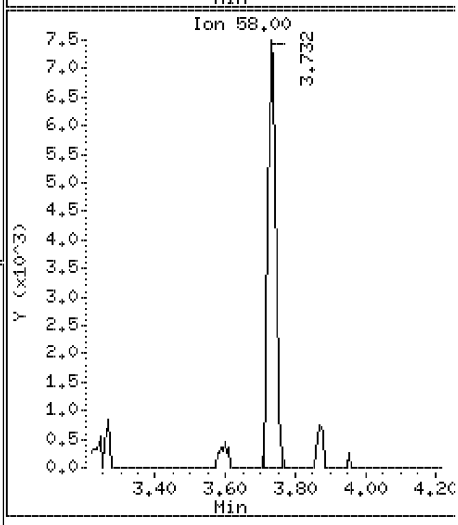
18 Acetone

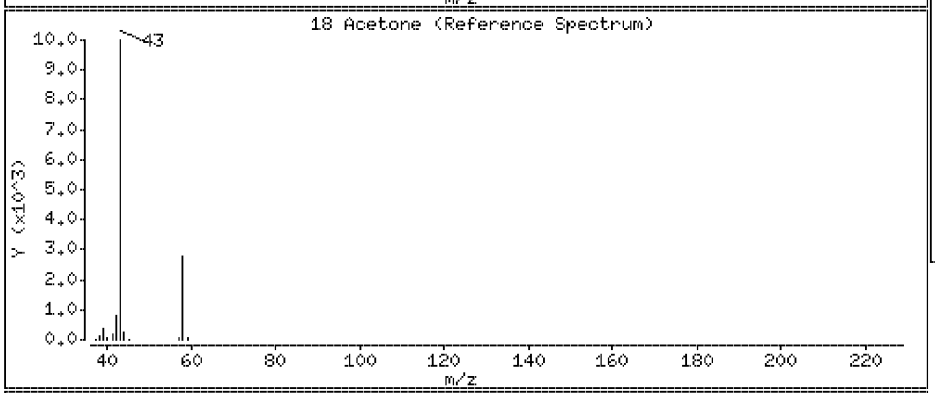
Concentration: 3.82 ppbv

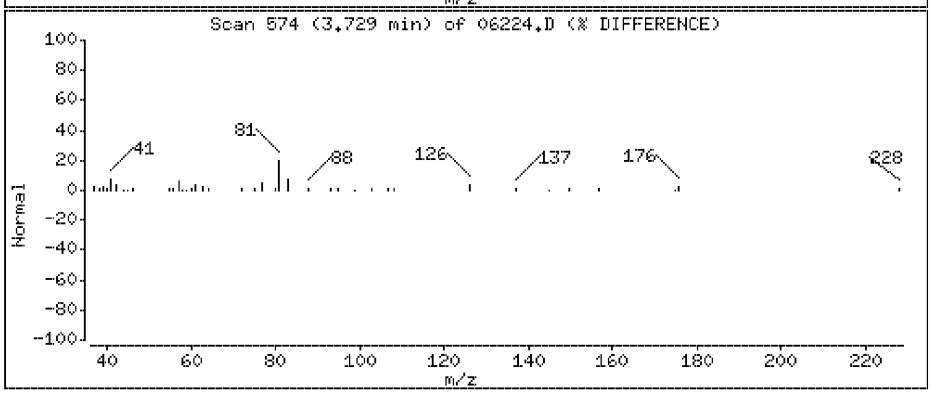












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

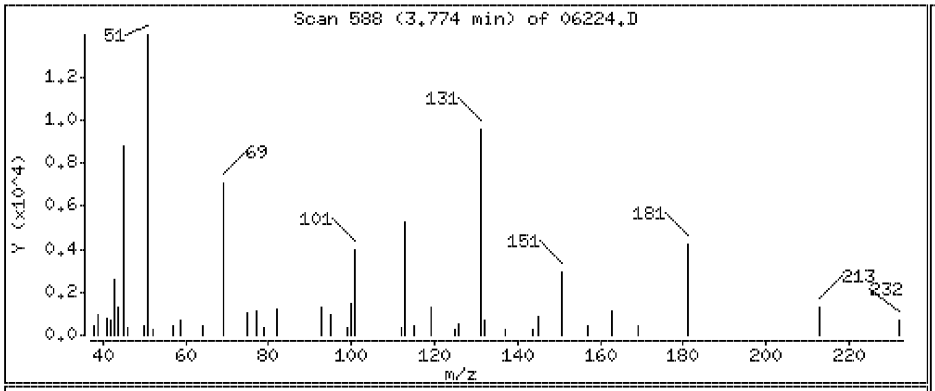
Operator: MJL

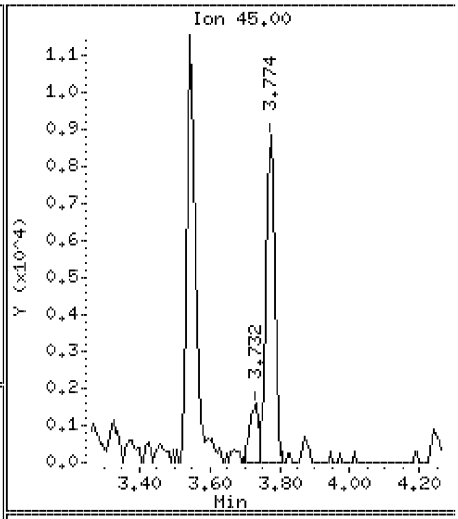
Column phase: J&W DB-5

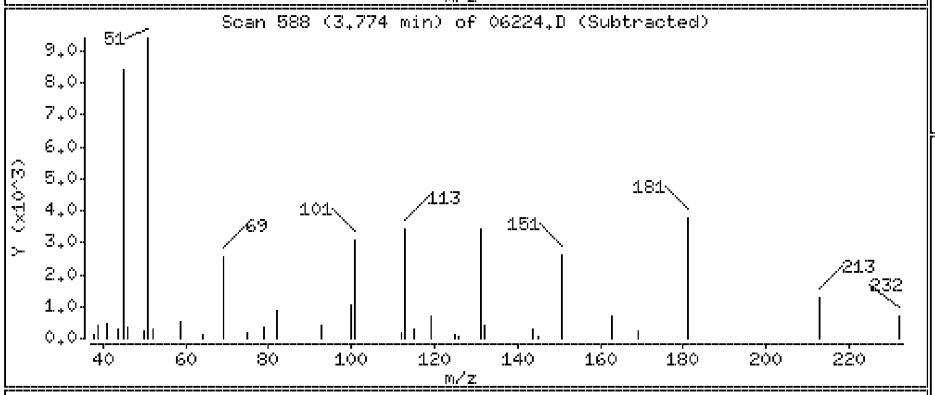
Column diameter: 0.32

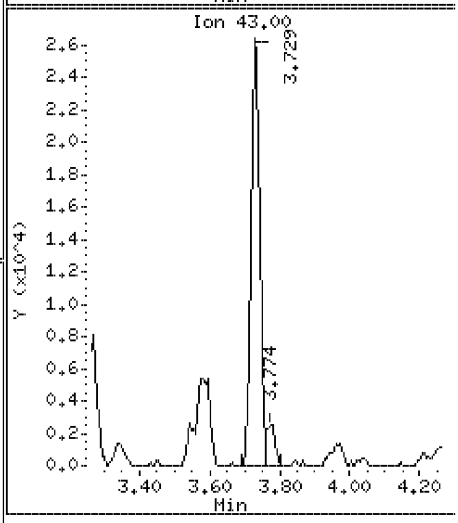
19 Isopropyl Alcohol

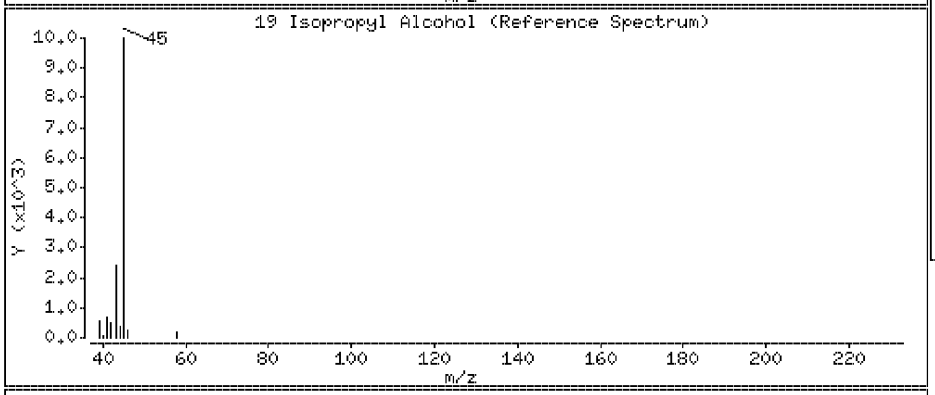
Concentration: 1.29 ppbv

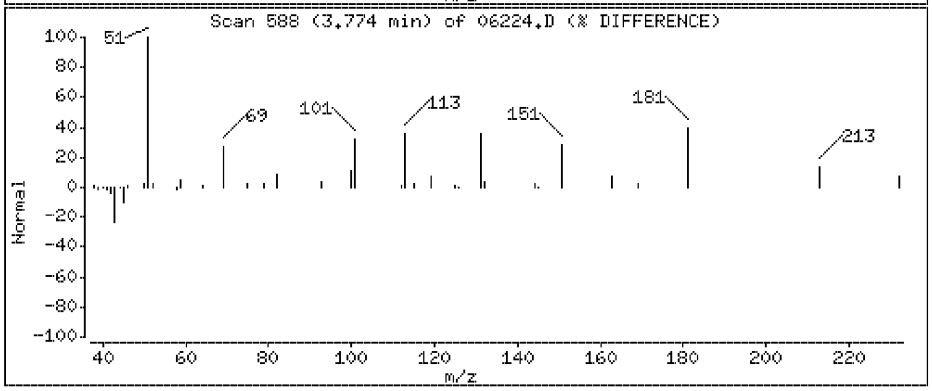












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

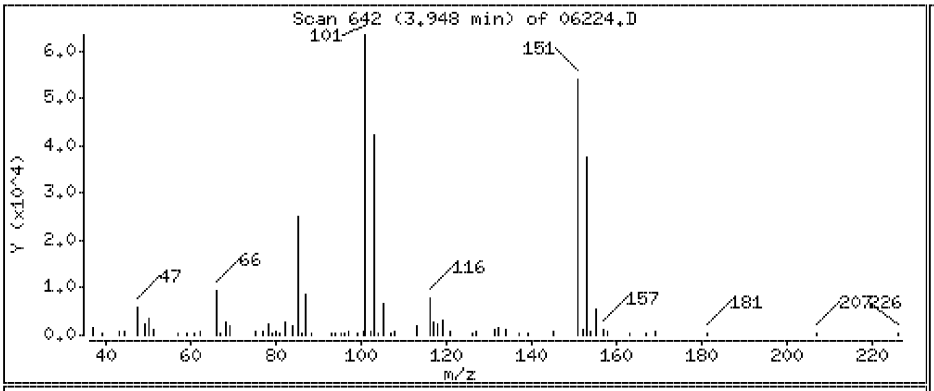
Operator: MJL

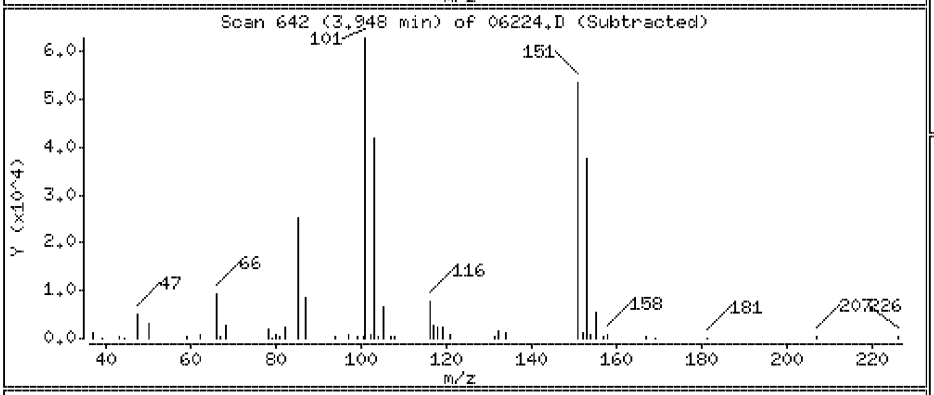
Column phase: J&W DB-5

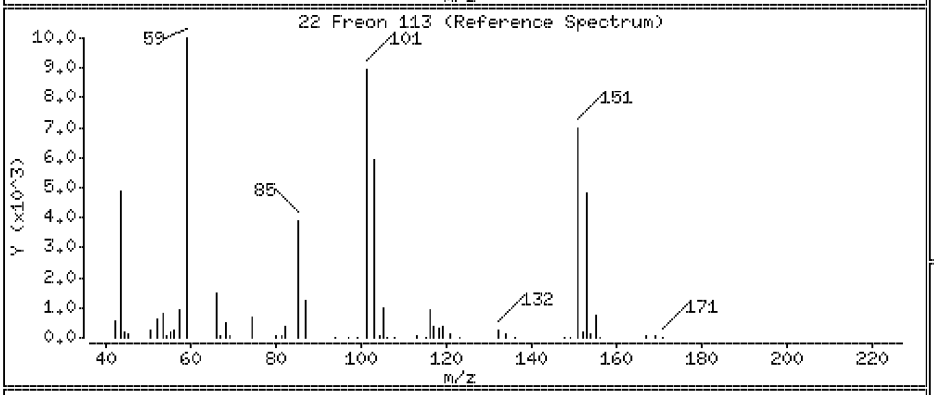
Column diameter: 0.32

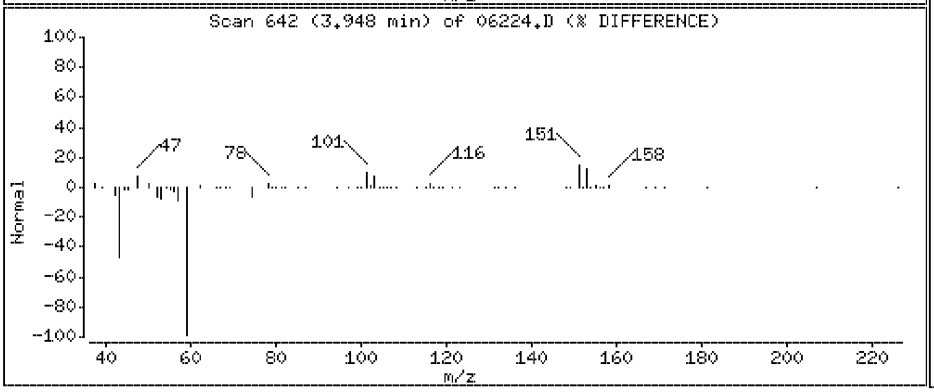
22 Freon 113

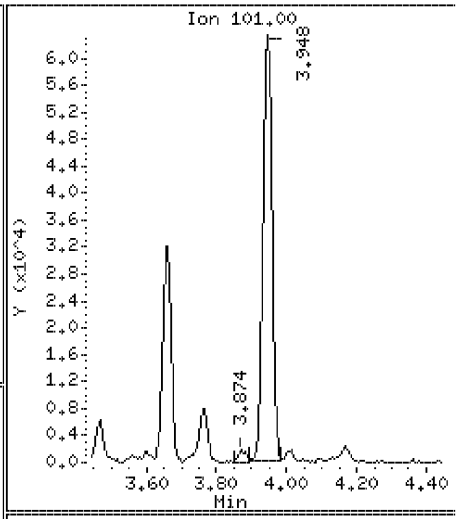
Concentration: 7.48 ppbv

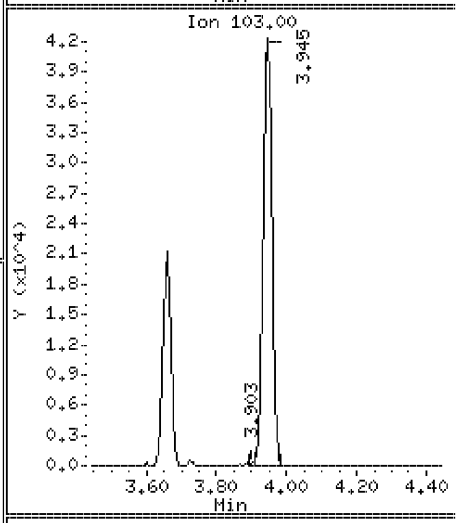


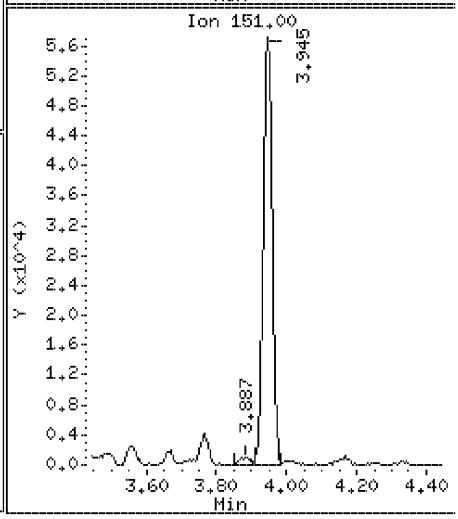












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

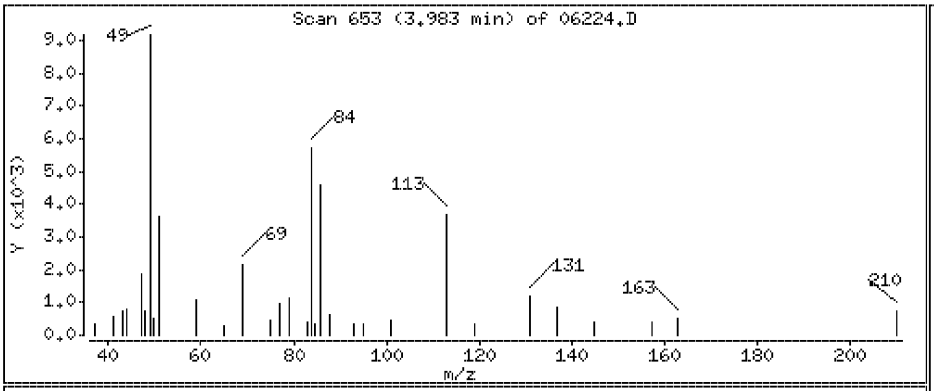
Operator: MJL

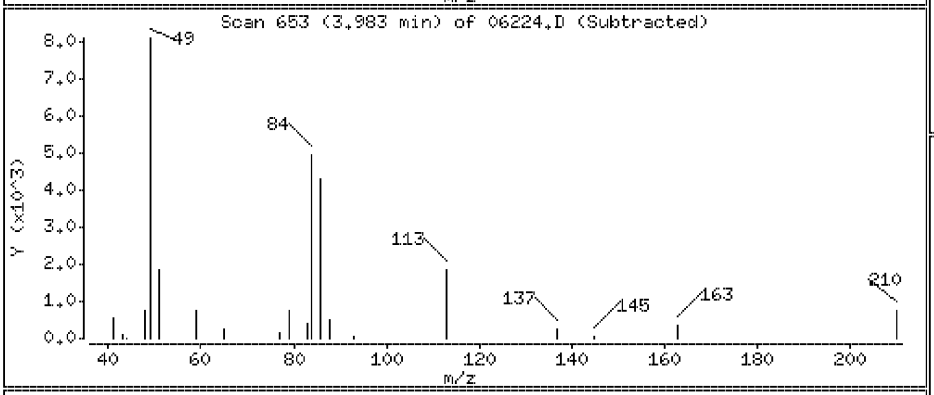
Column phase: J&W DB-5

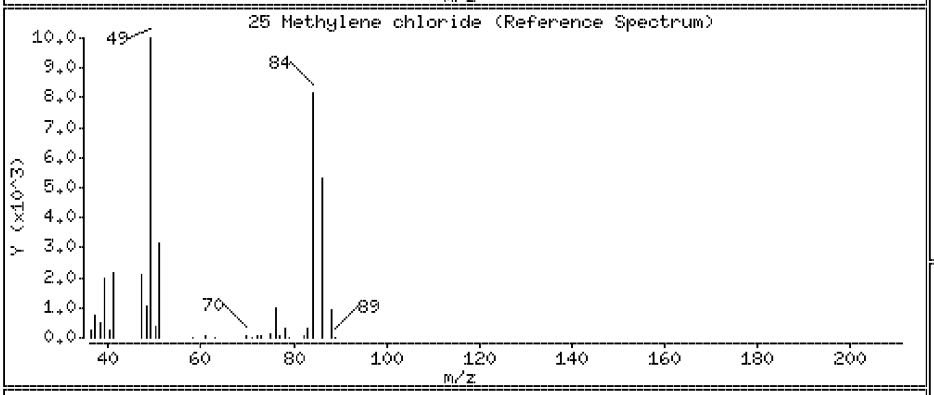
Column diameter: 0.32

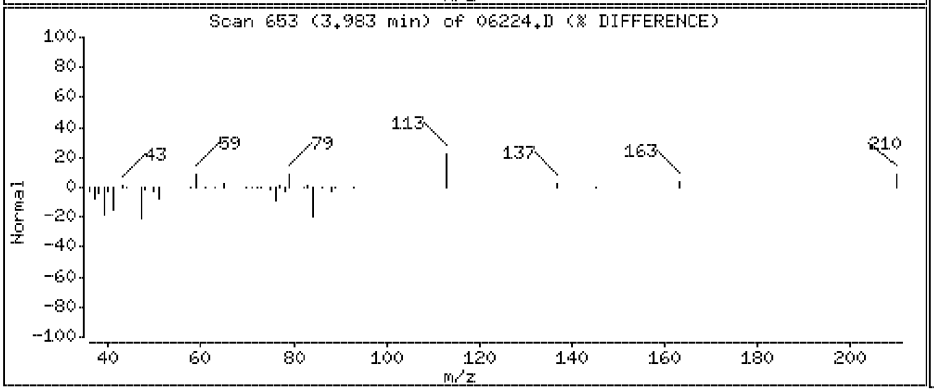
25 Methylene chloride

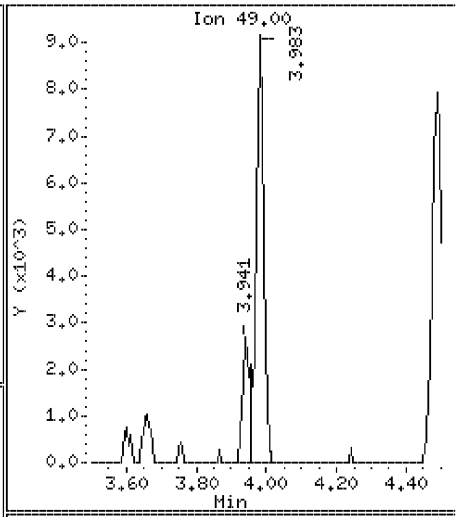
Concentration: 1.59 ppbv

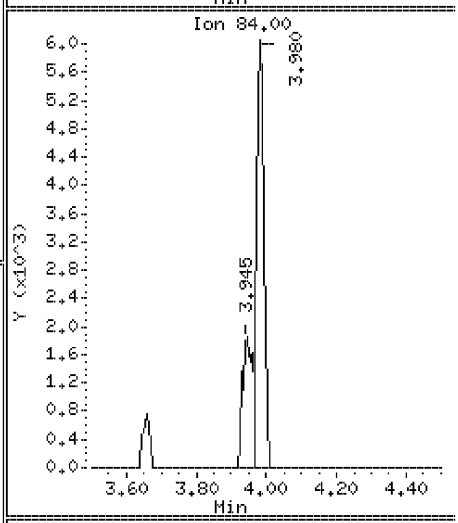


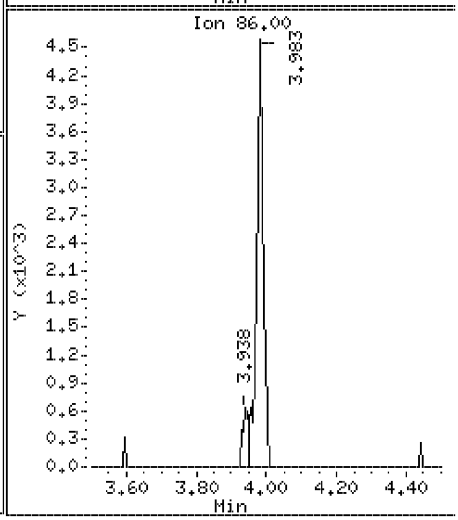












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

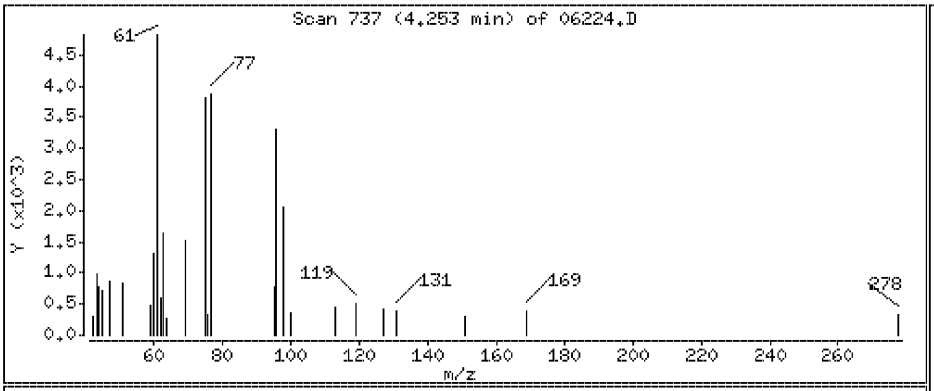
Operator: MJL

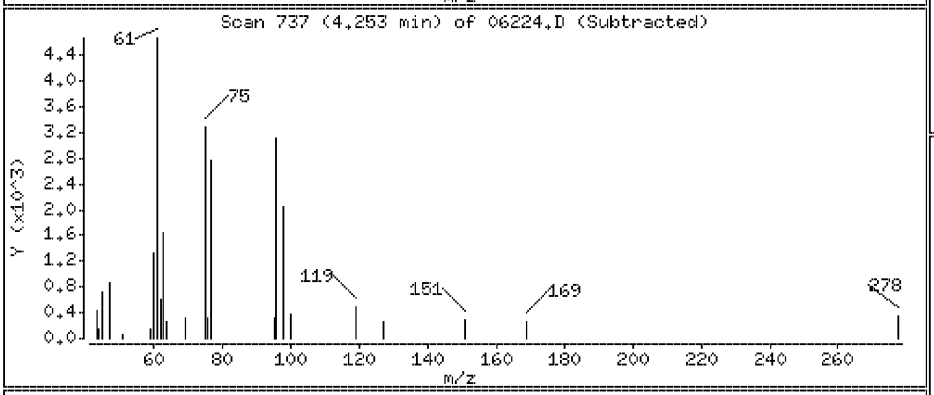
Column phase: J&W DB-5

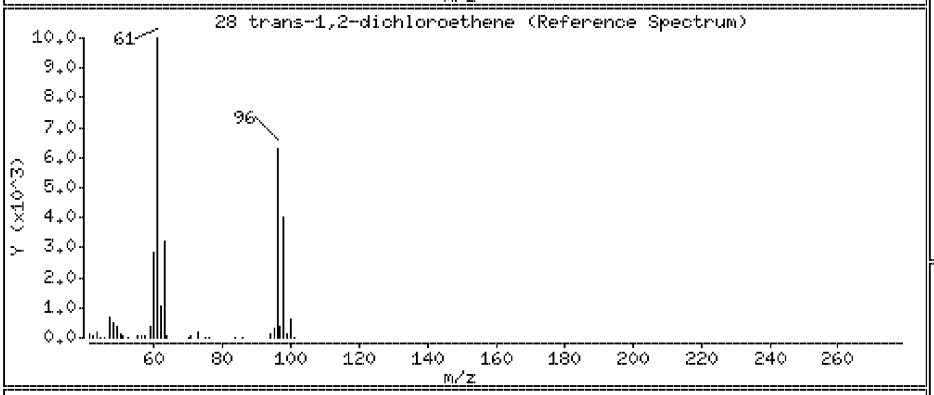
Column diameter: 0.32

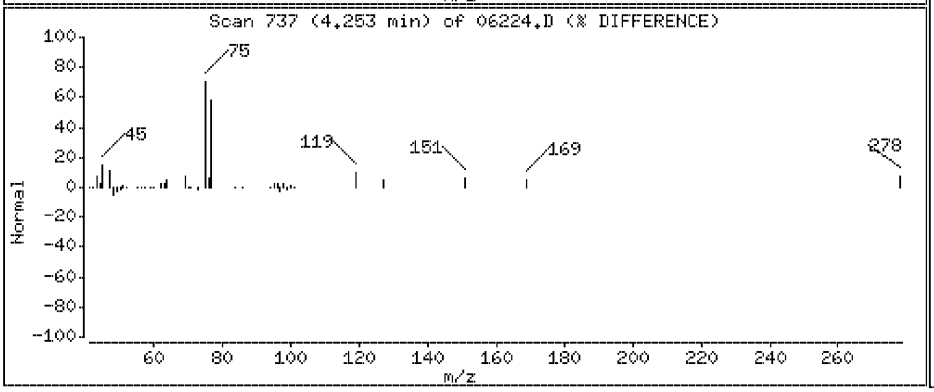
28 trans-1,2-dichloroethene

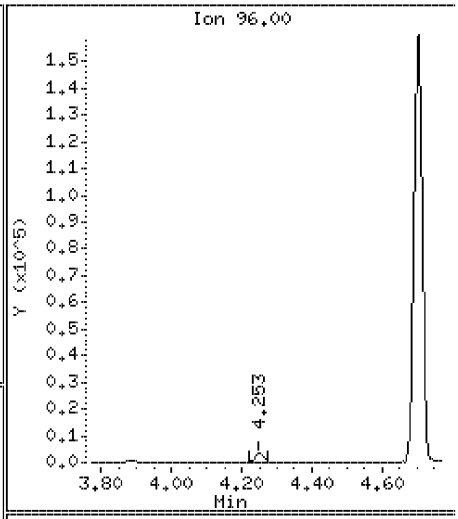
Concentration: 0.810 ppbv

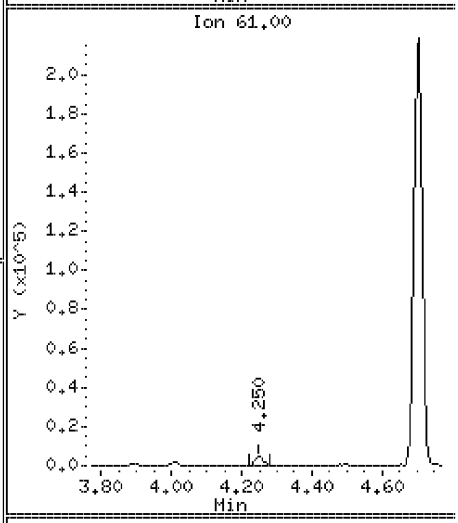


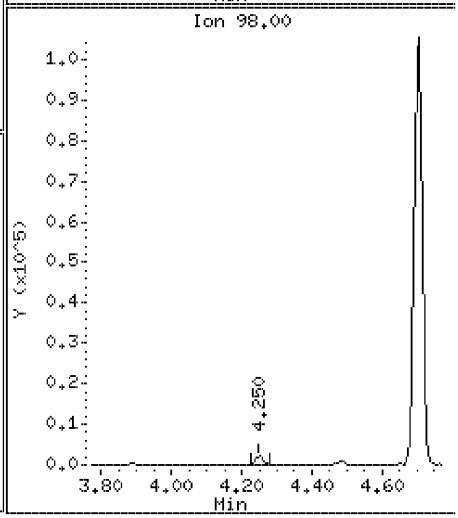












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

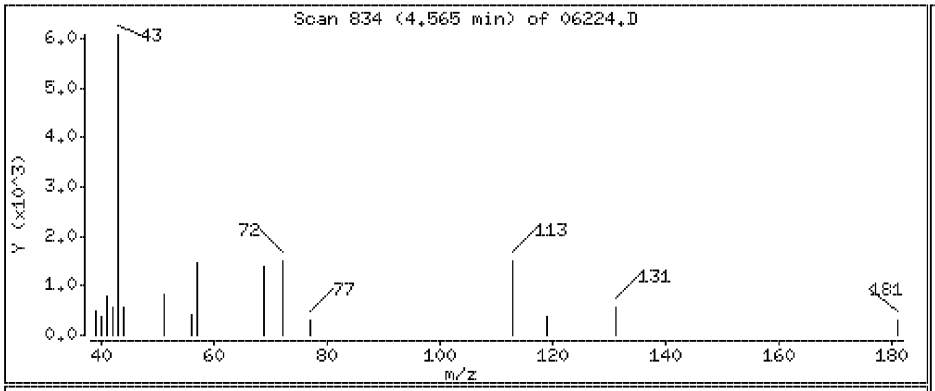
Operator: MJL

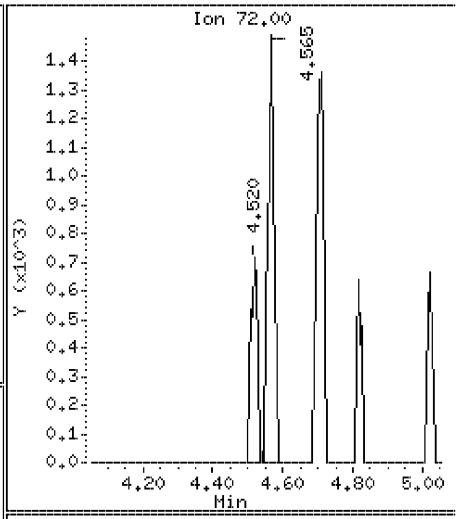
Column phase: J&W DB-5

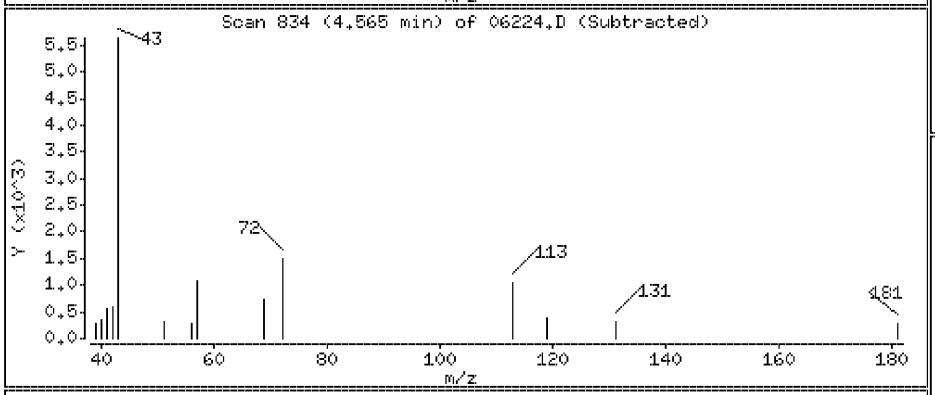
Column diameter: 0.32

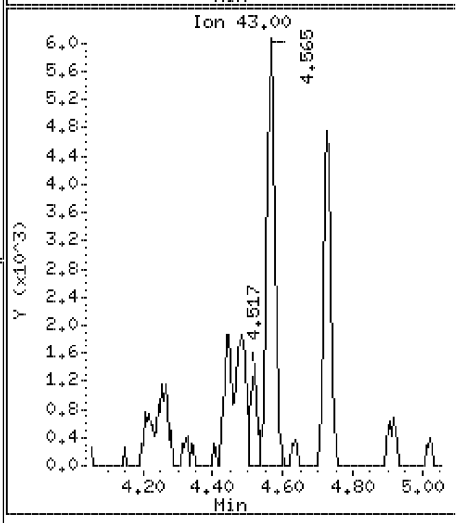
33 Methyl Ethyl Ketone

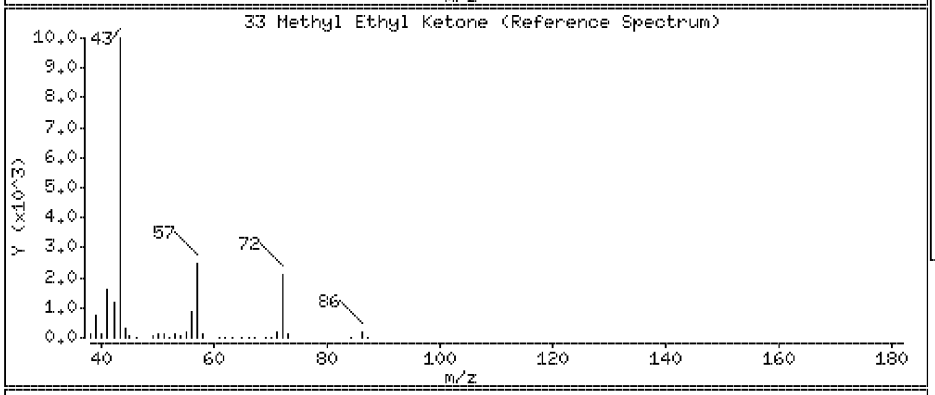
Concentration: 0.608 ppbv

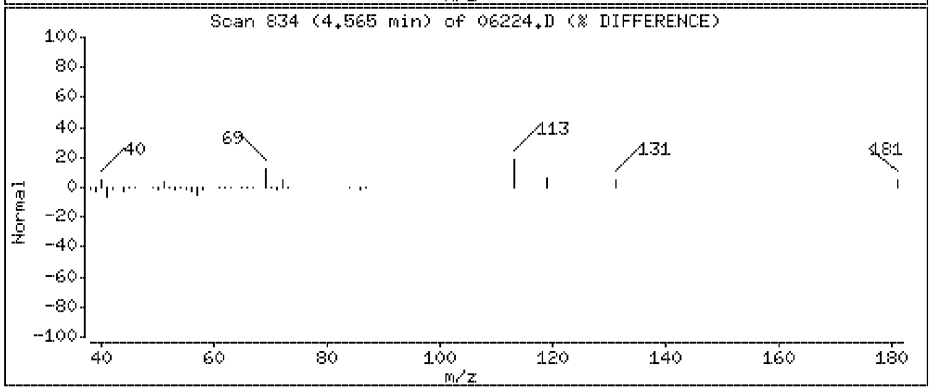












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

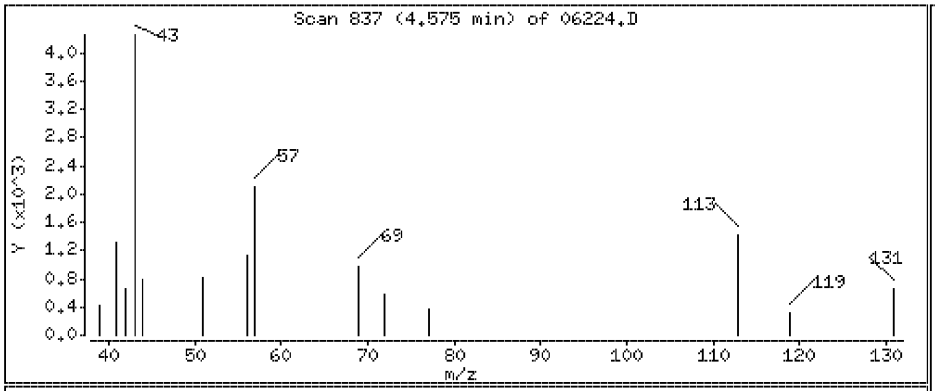
Operator: MJL

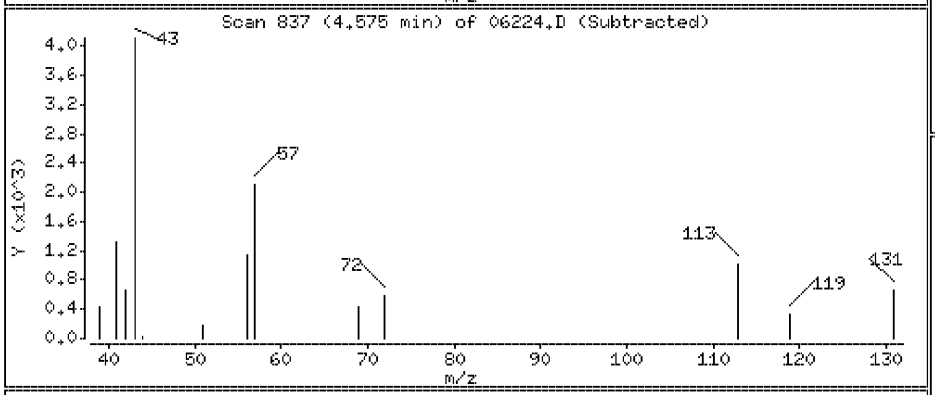
Column phase: J&W DB-5

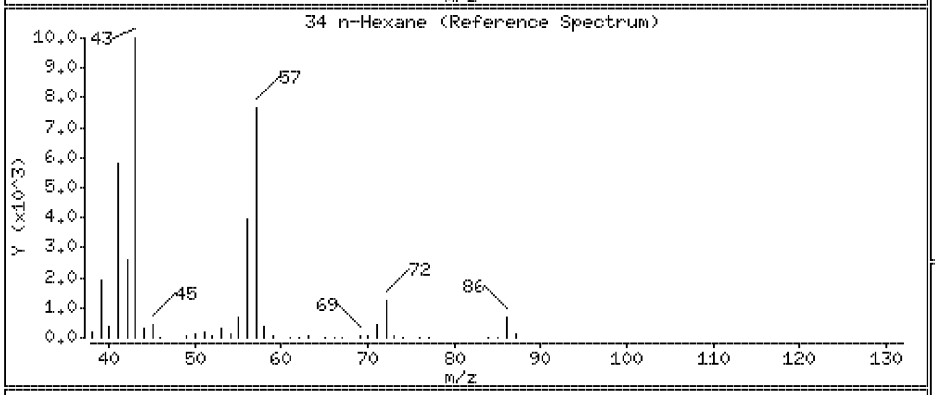
Column diameter: 0.32

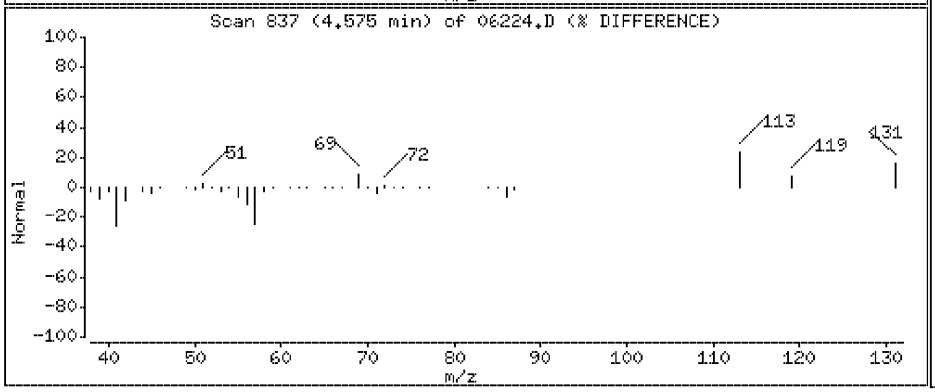
34 n-Hexane

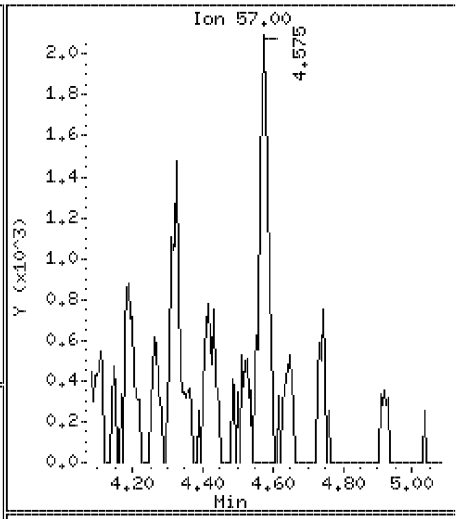
Concentration: 0.316 ppbv

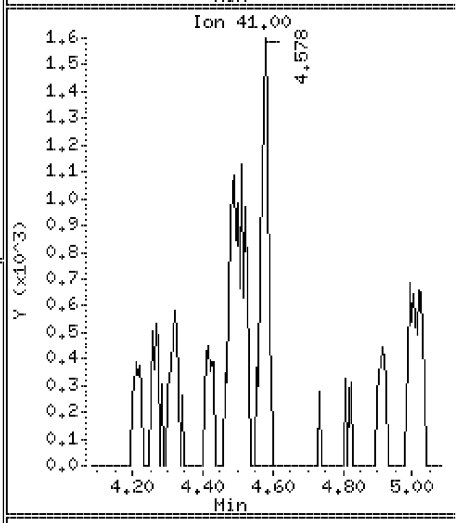


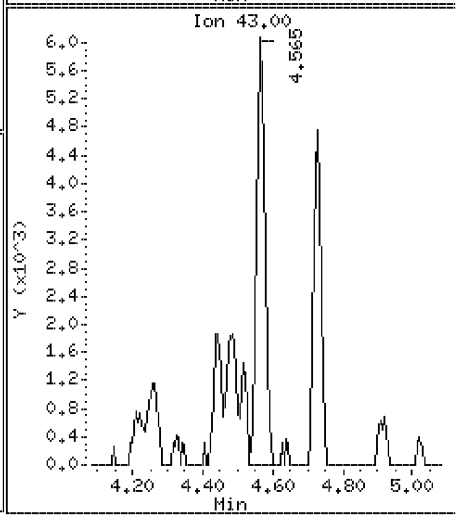












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

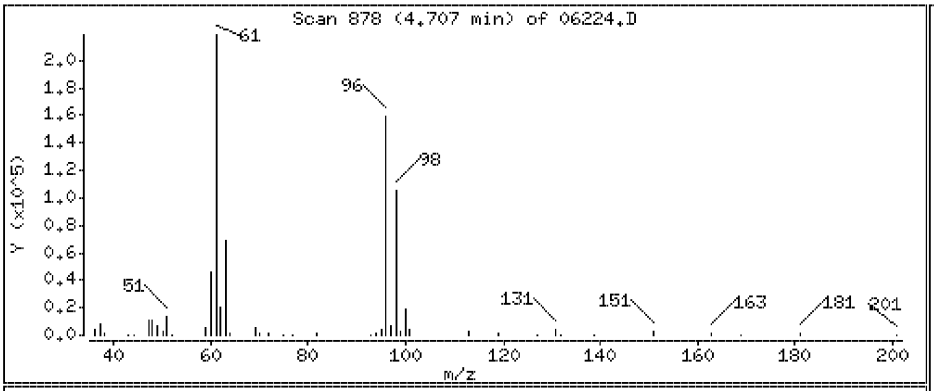
Operator: MJL

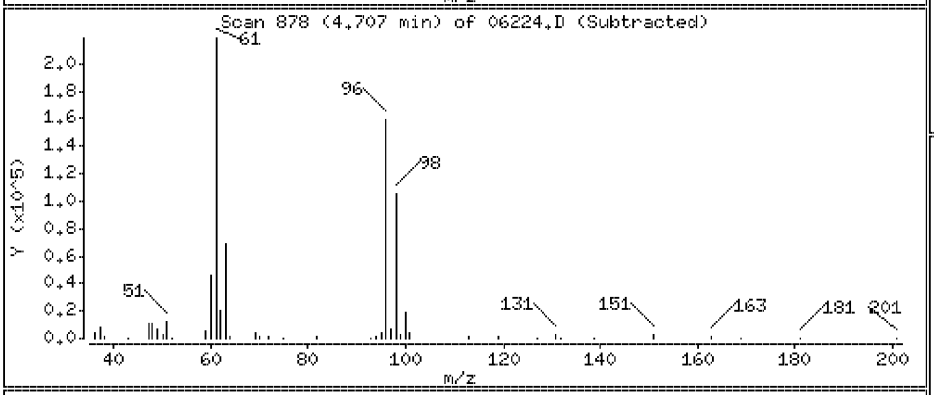
Column phase: J&W DB-5

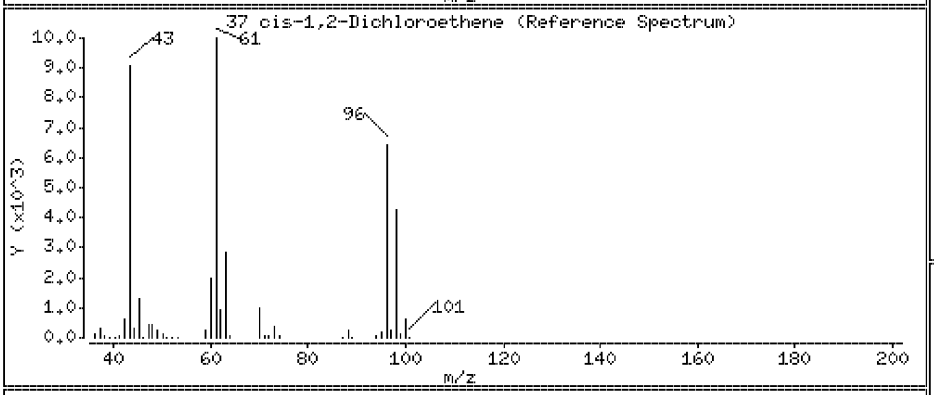
Column diameter: 0.32

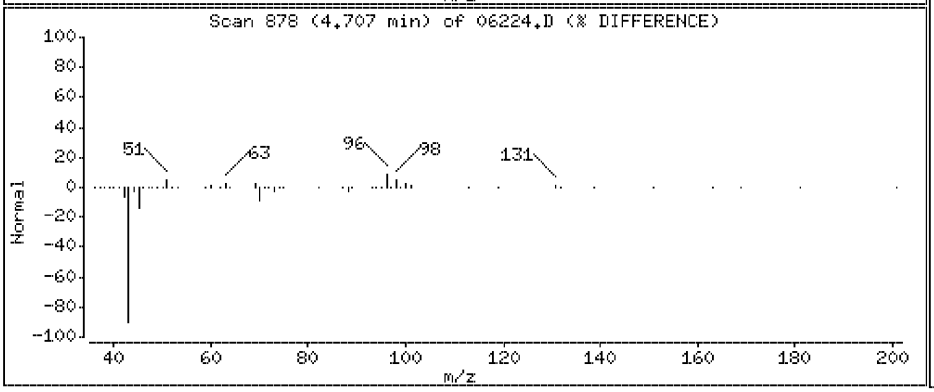
37 cis-1,2-Dichloroethene

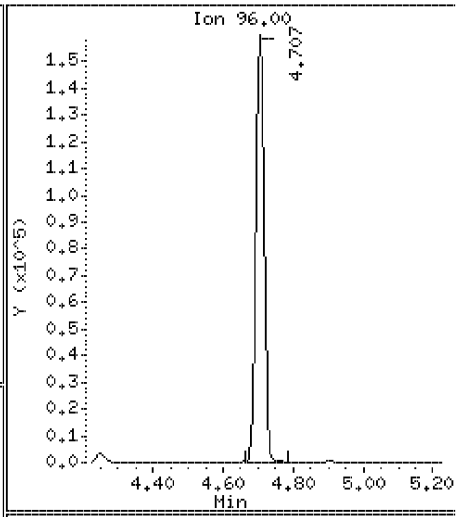
Concentration: 35.6 ppbv

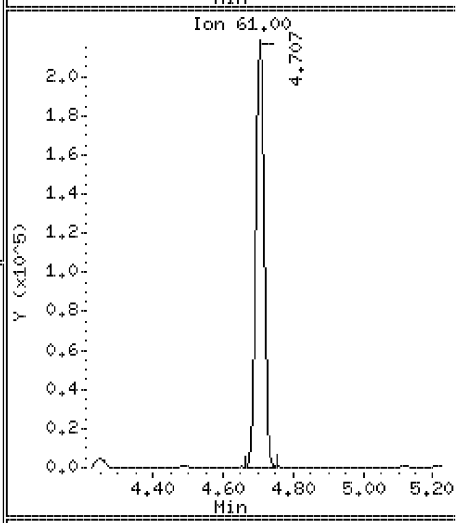


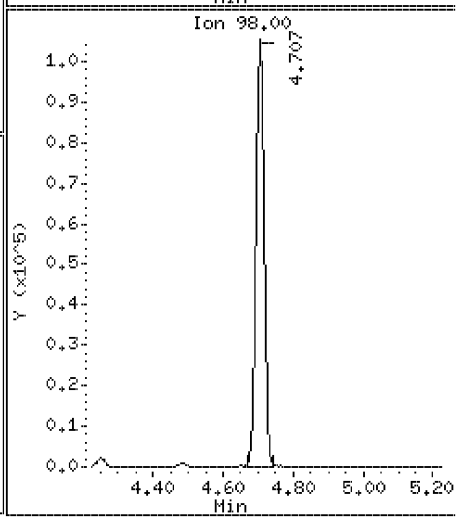












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

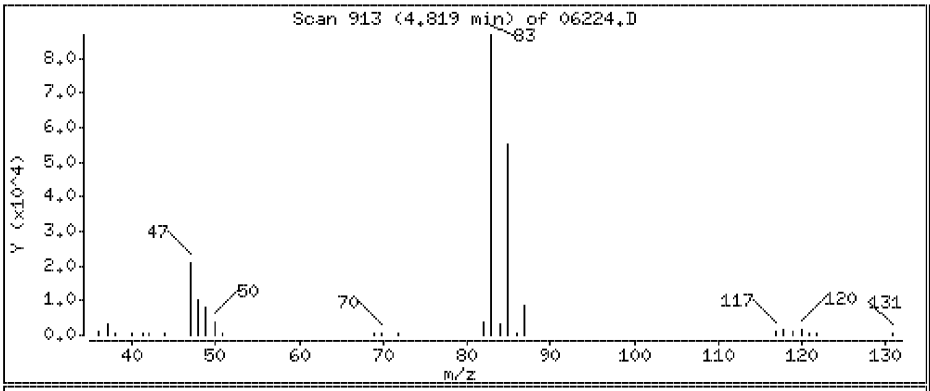
Operator: MJL

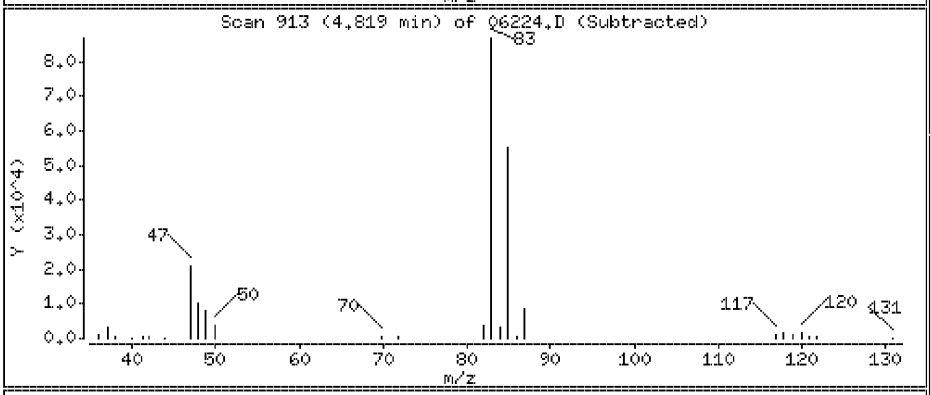
Column phase: J&W DB-5

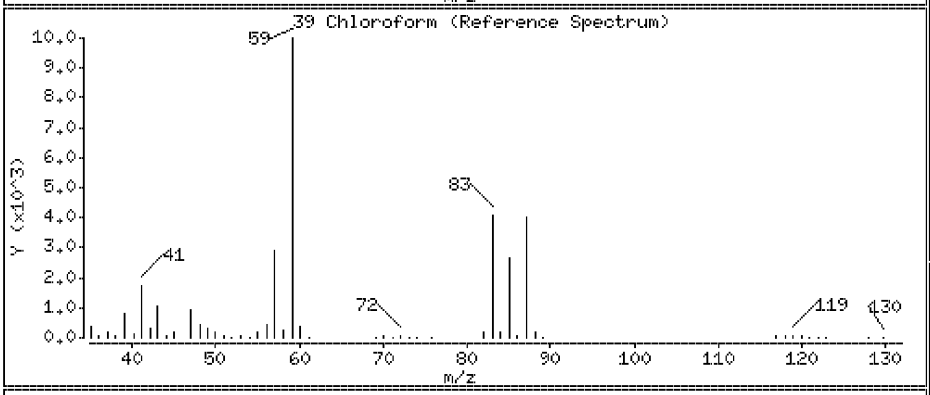
Column diameter: 0.32

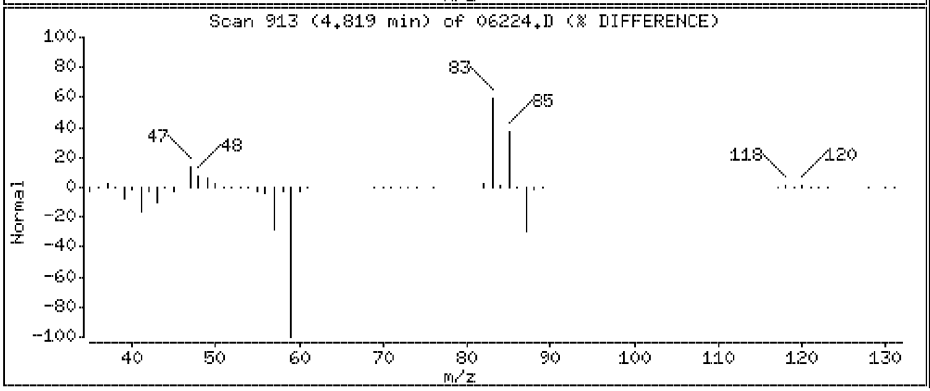
39 Chloroform

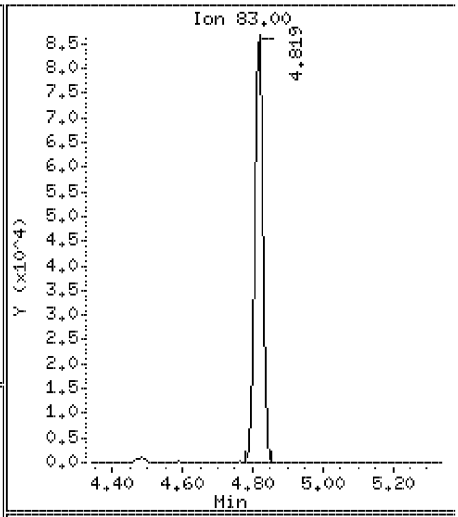
Concentration: 9.00 ppbv

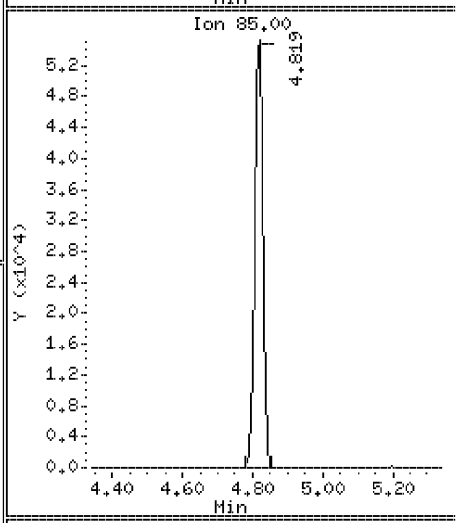


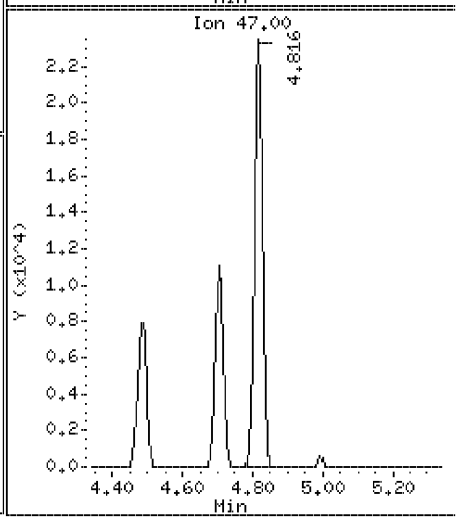












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

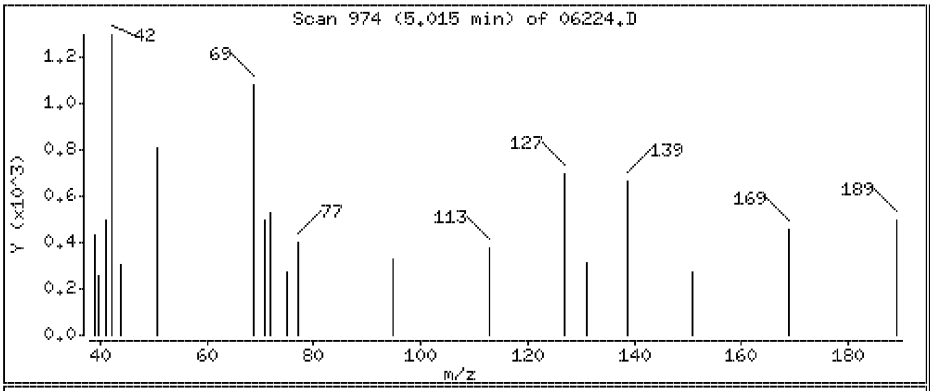
Operator: MJL

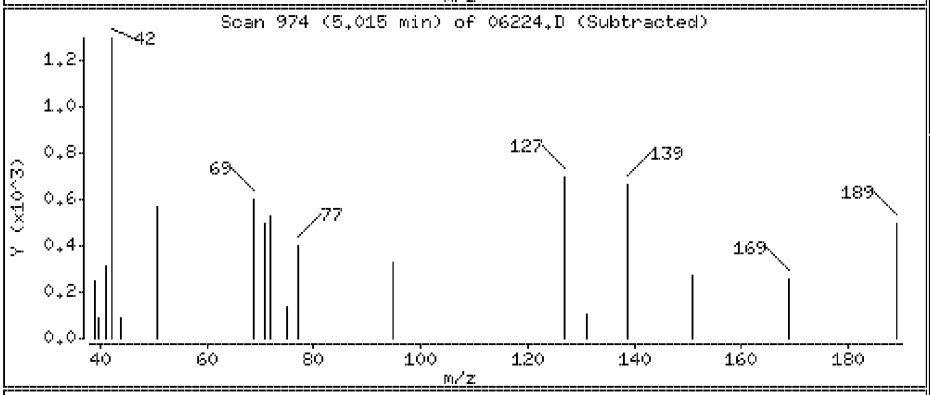
Column phase: J&W DB-5

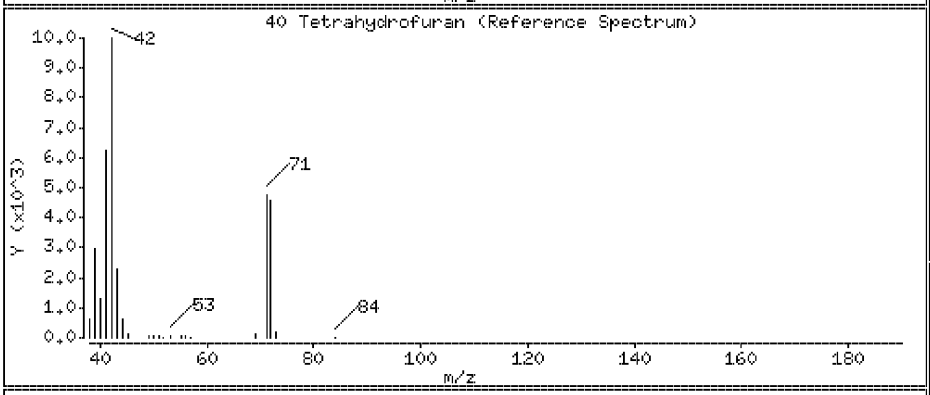
Column diameter: 0.32

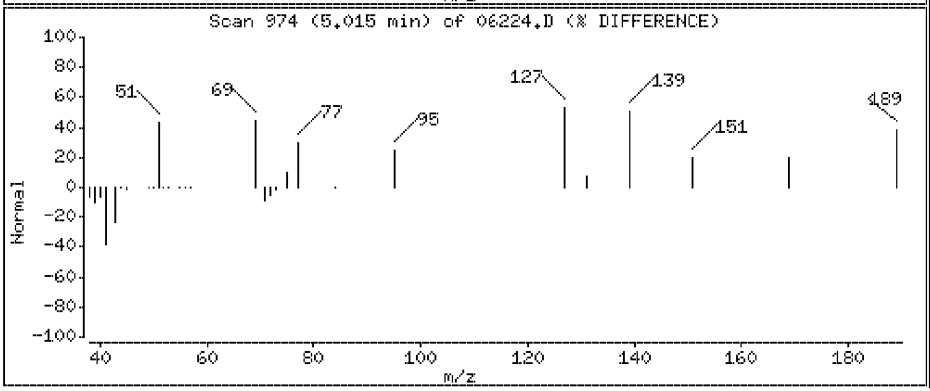
40 Tetrahydrofuran

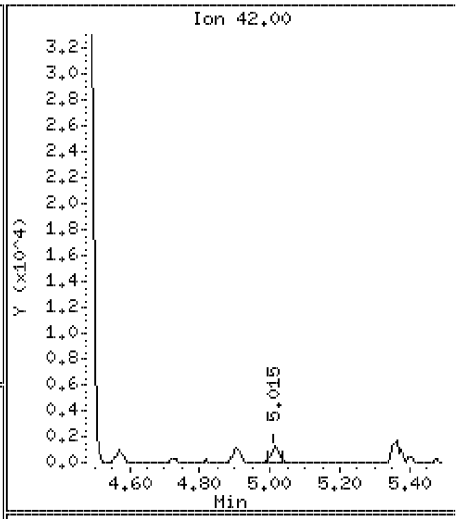
Concentration: 0.216 ppbv

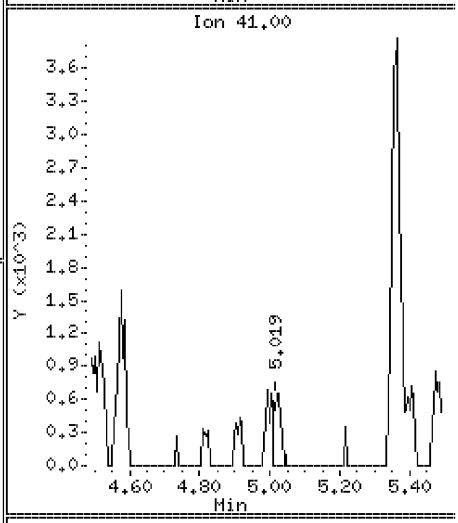


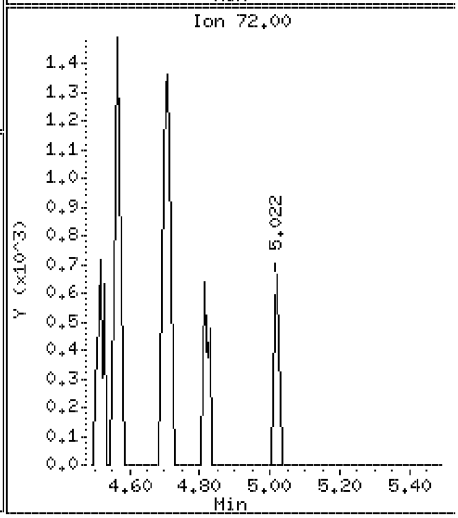












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

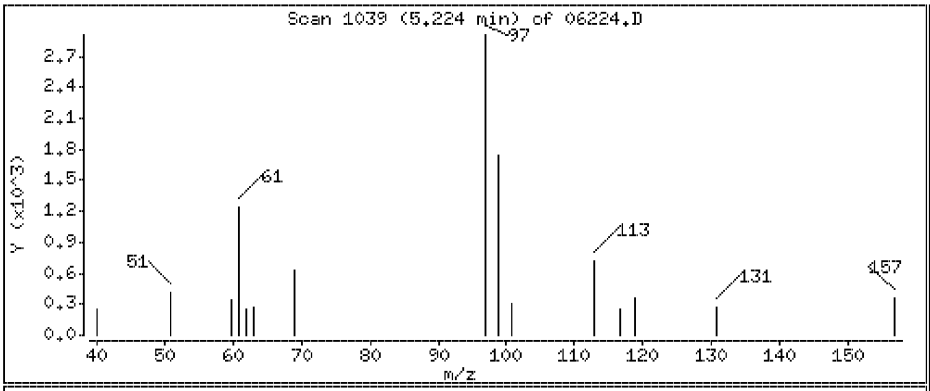
Operator: MJL

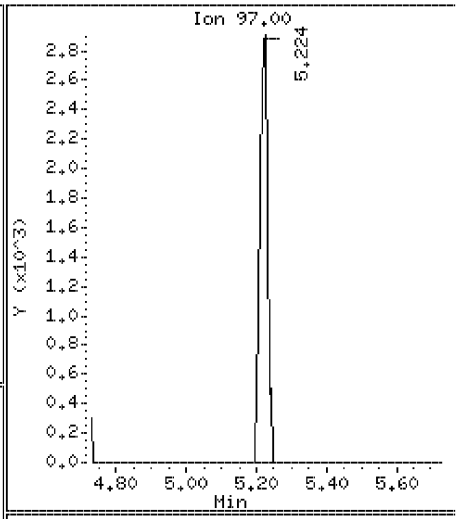
Column phase: J&W DB-5

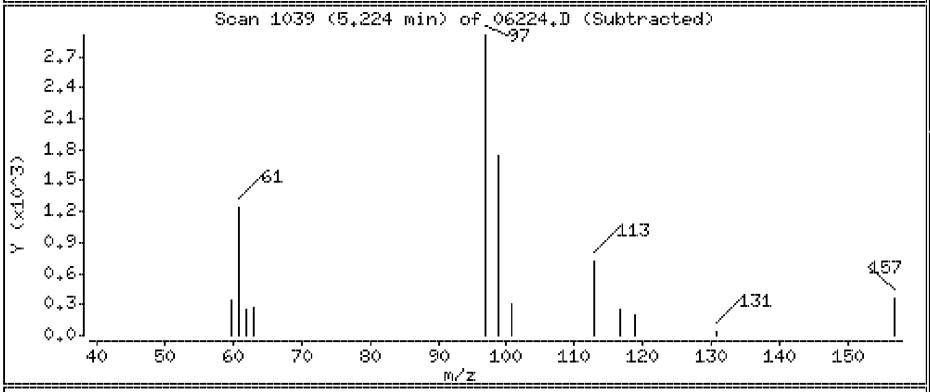
Column diameter: 0.32

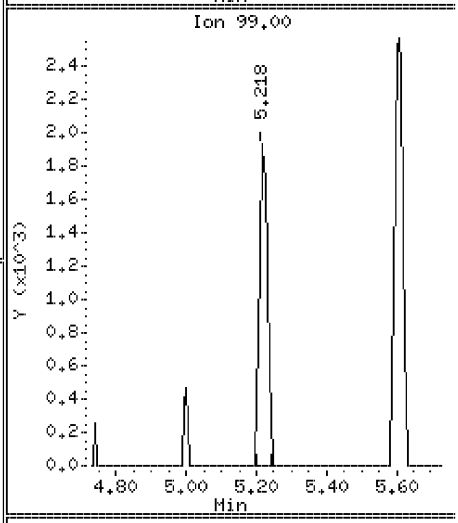
41 1,1,1-Trichloroethane

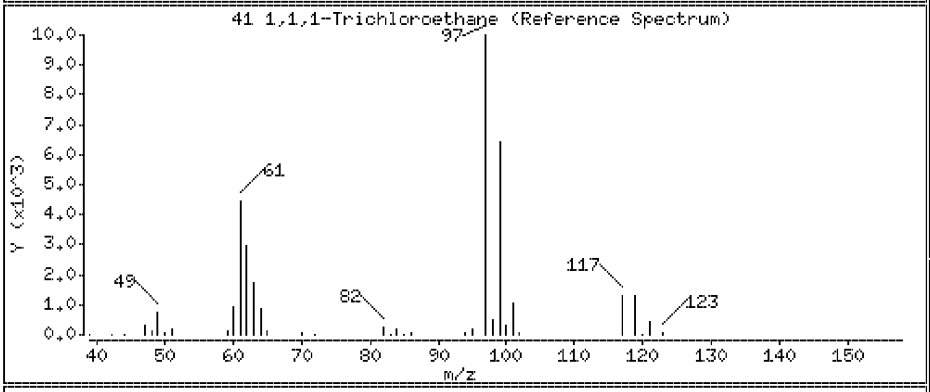
Concentration: 0.254 ppbv

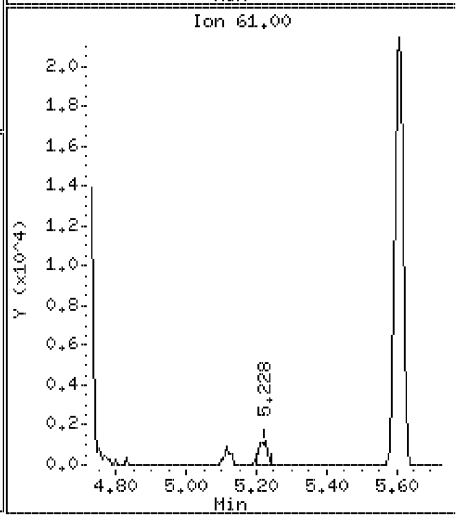


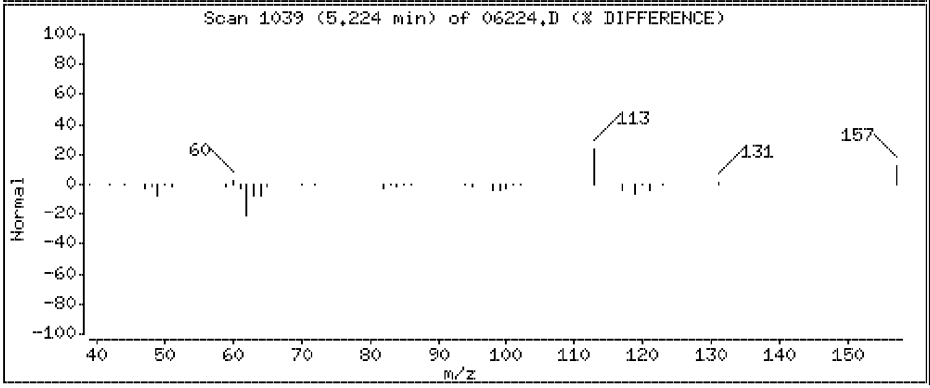












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

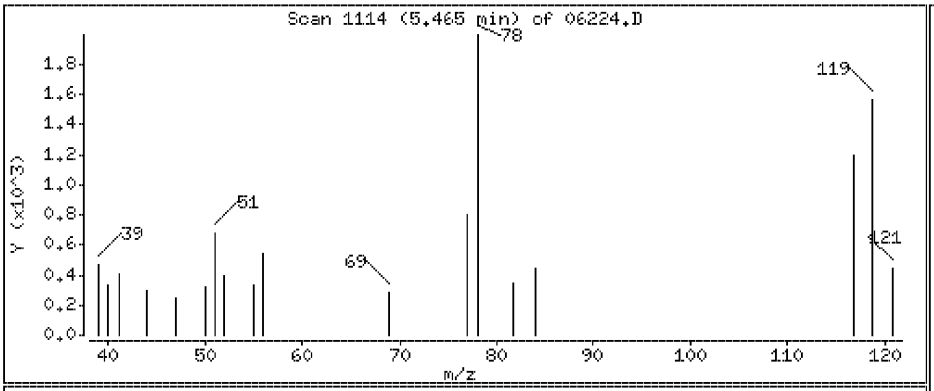
Operator: MJL

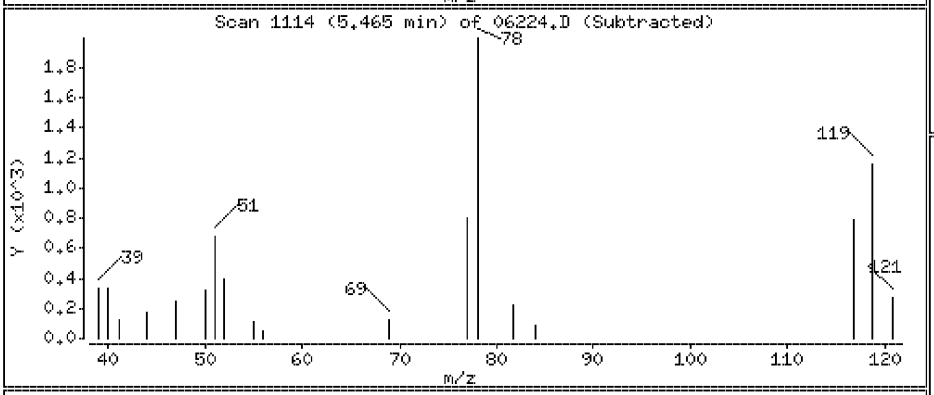
Column phase: J&W DB-5

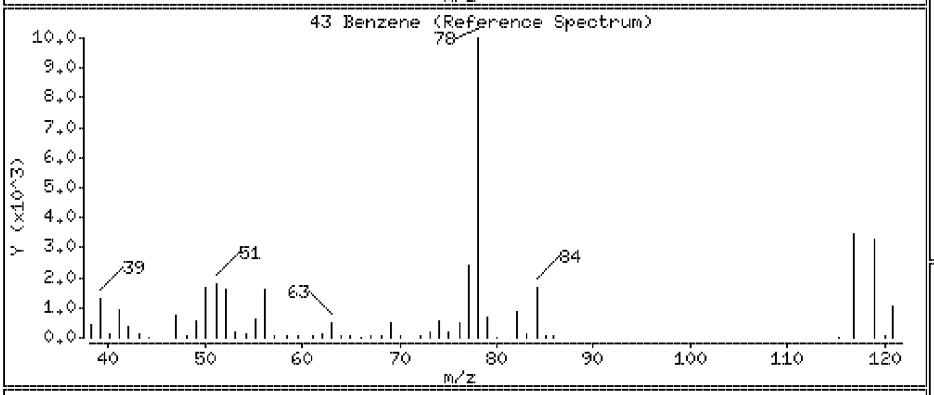
Column diameter: 0.32

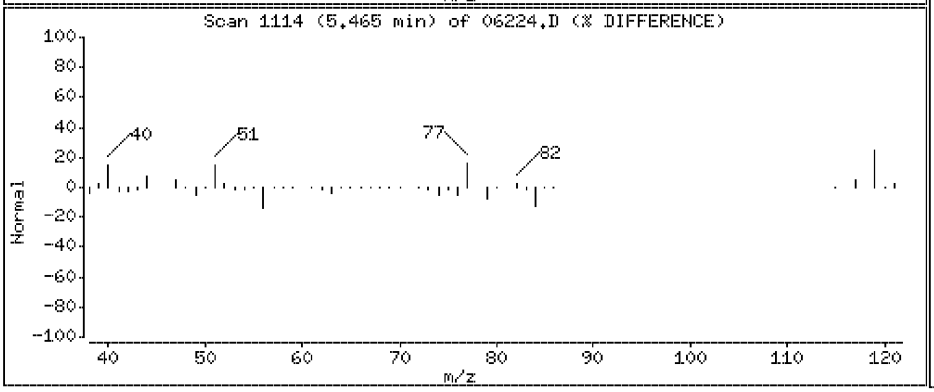
43 Benzene

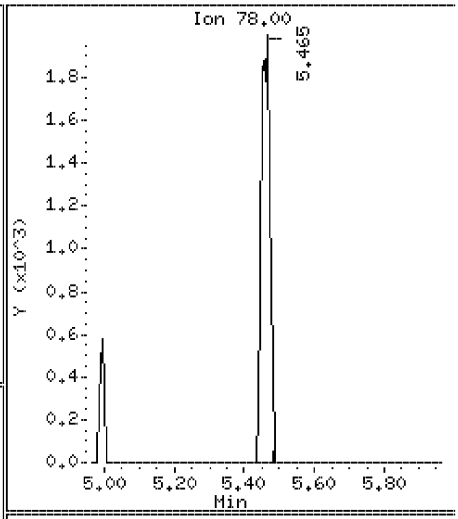
Concentration: 0.146 ppbv

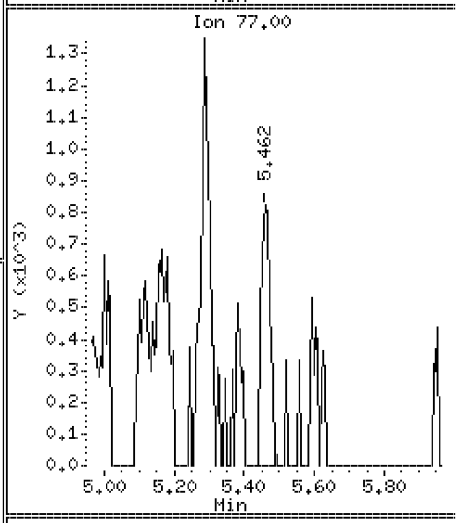


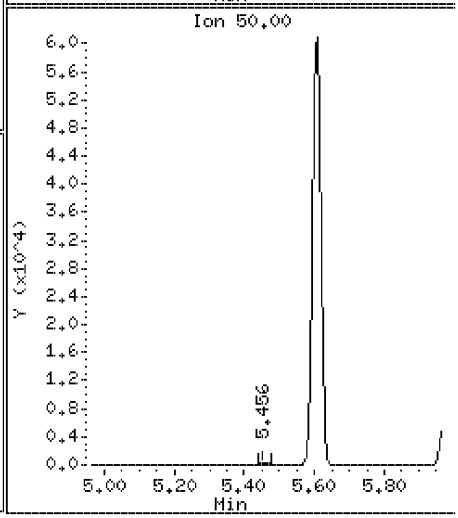












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

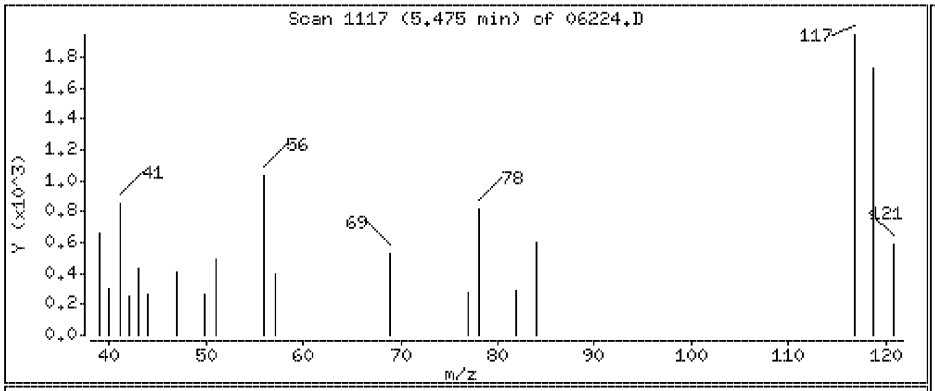
Operator: MJL

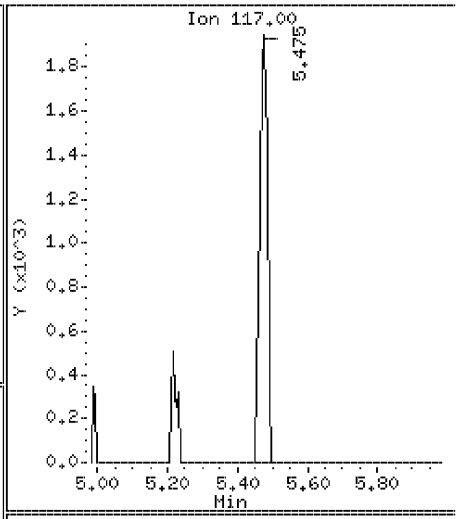
Column phase: J&W DB-5

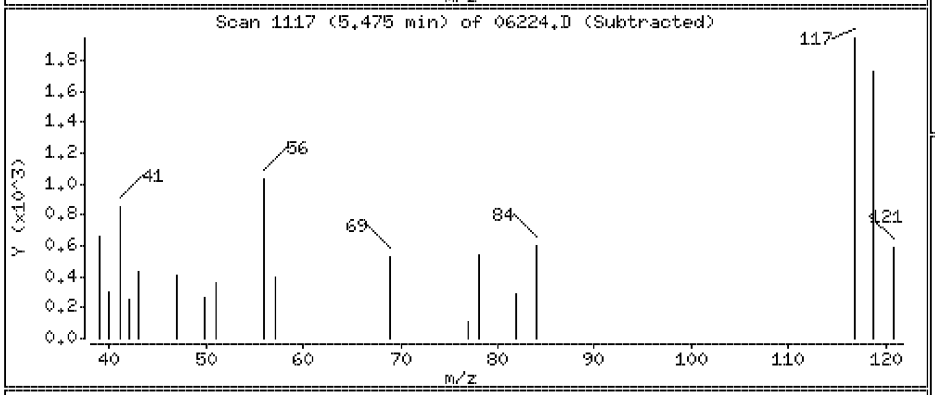
Column diameter: 0.32

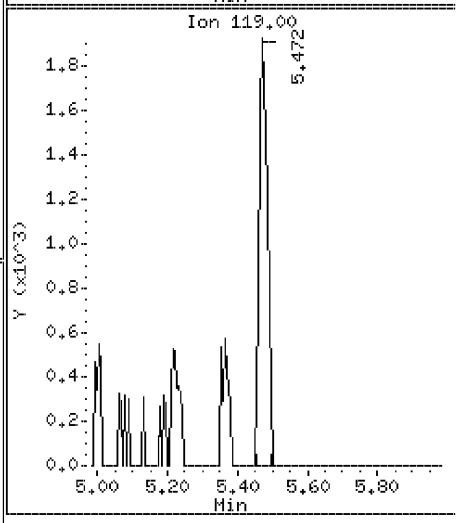
44 Carbon tetrachloride

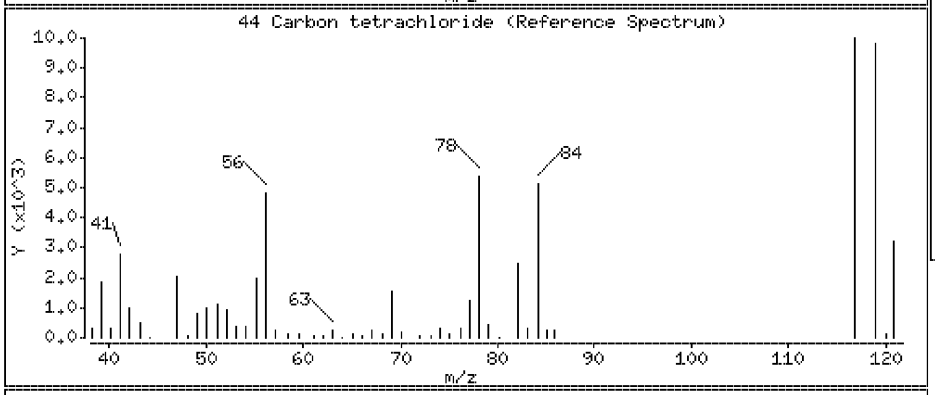
Concentration: 0.163 ppbv

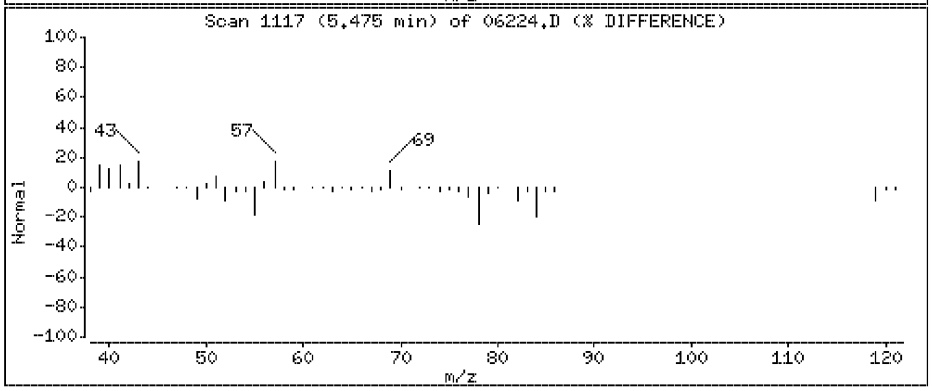












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

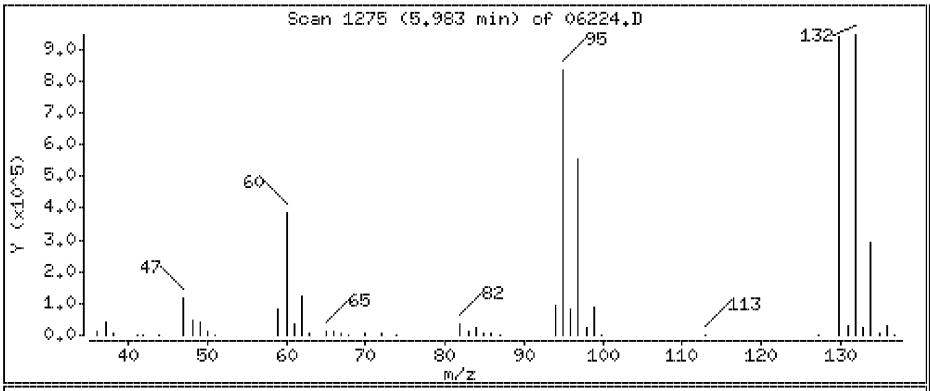
Operator: MJL

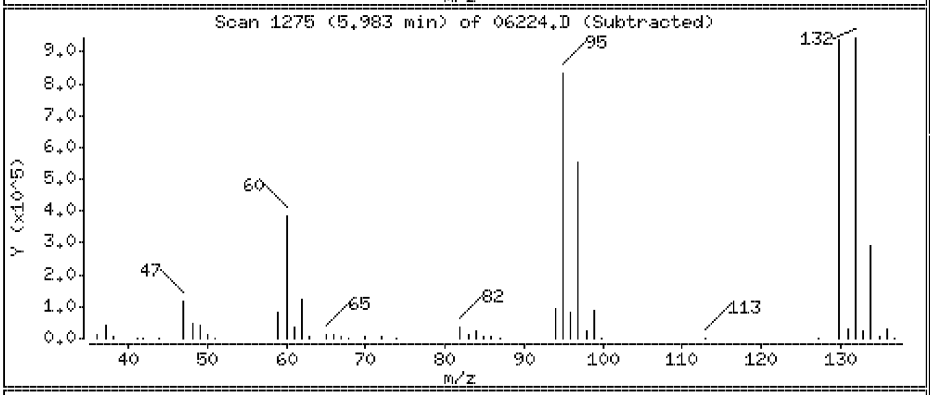
Column phase: J&W DB-5

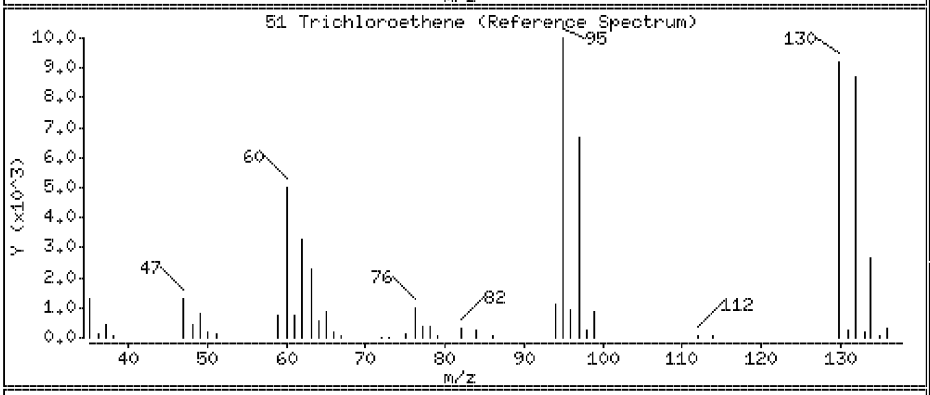
Column diameter: 0.32

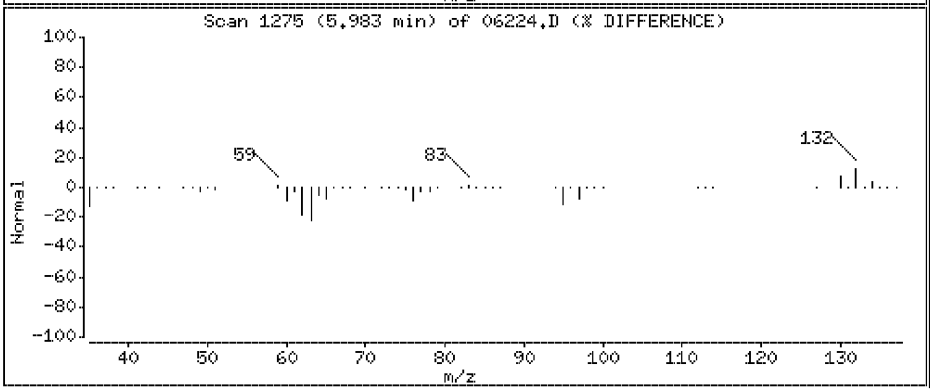
51 Trichloroethene

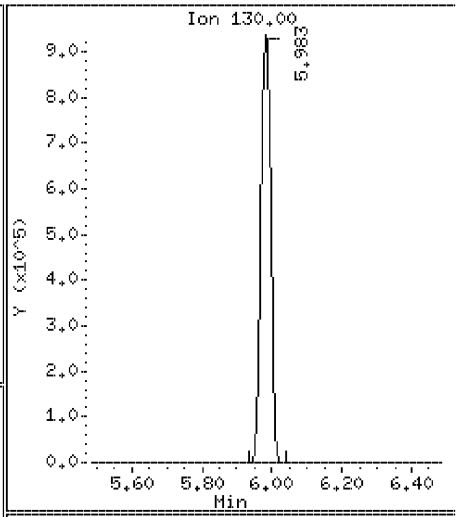
Concentration: 151 ppbv

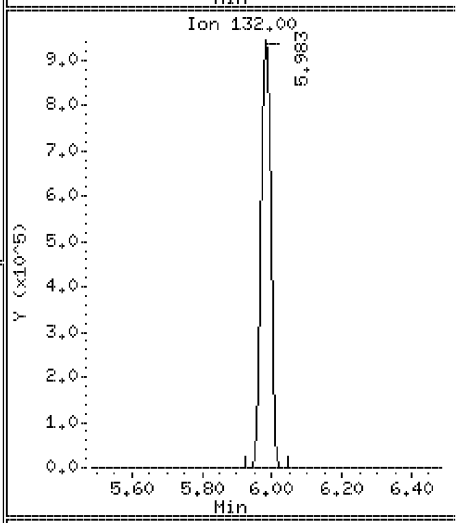


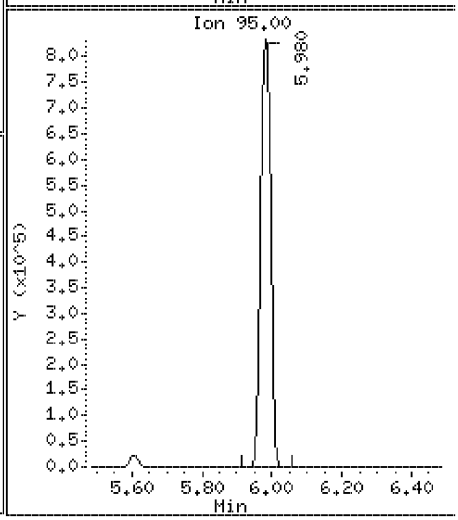












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

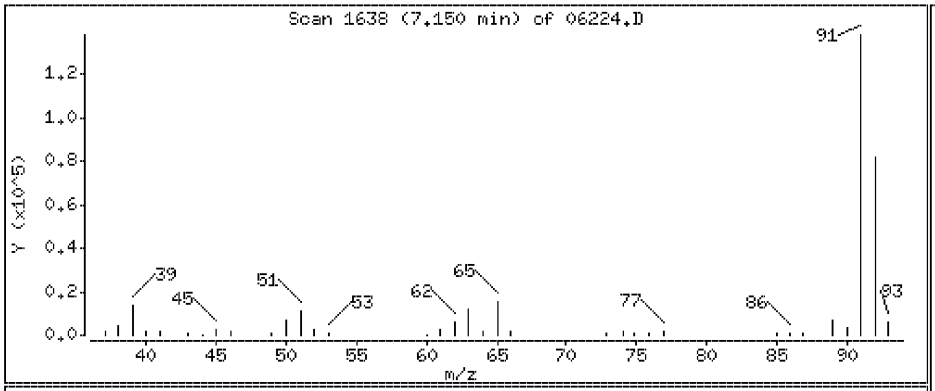
Operator: MJL

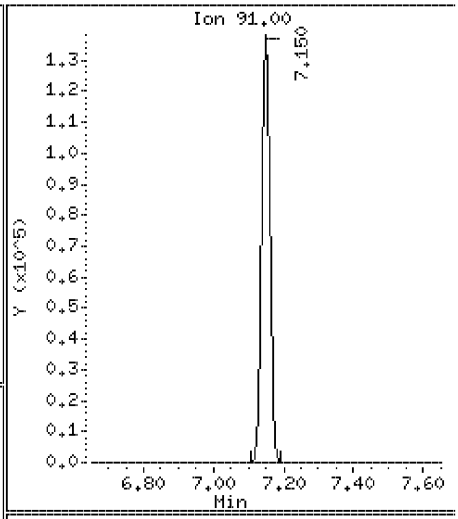
Column phase: J&W DB-5

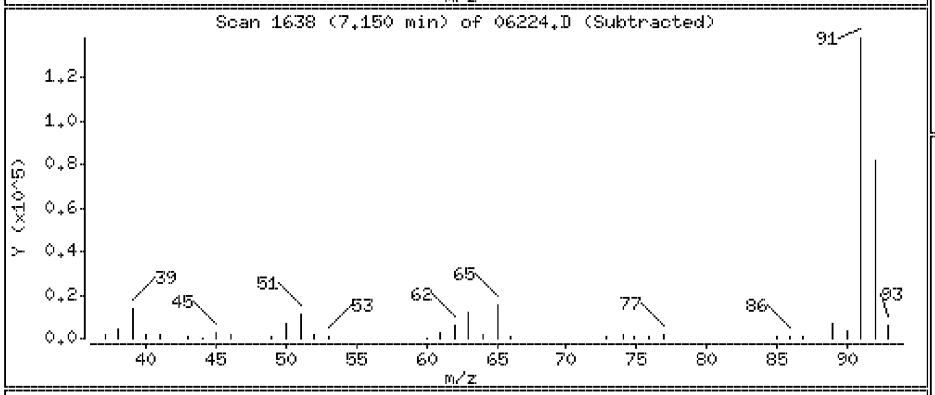
Column diameter: 0.32

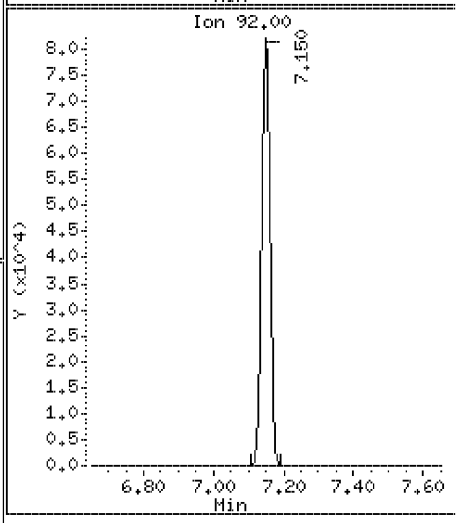
61 Toluene

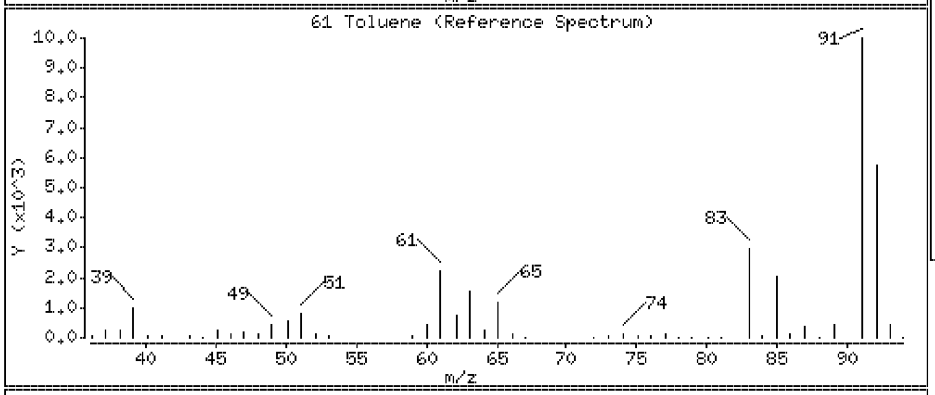
Concentration: 7.64 ppbv

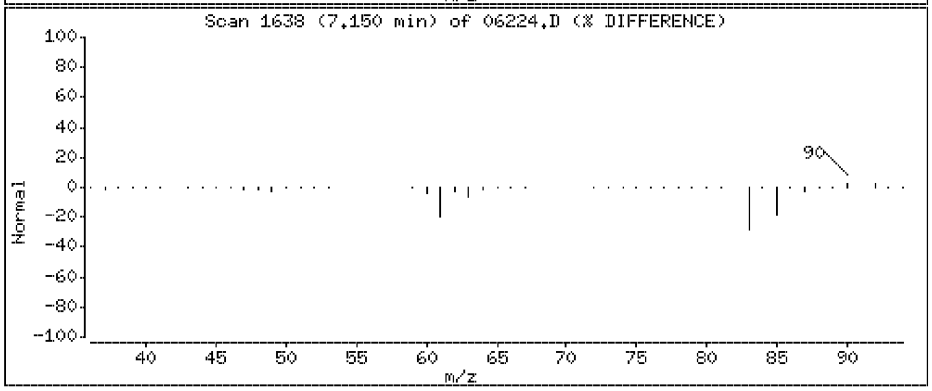












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

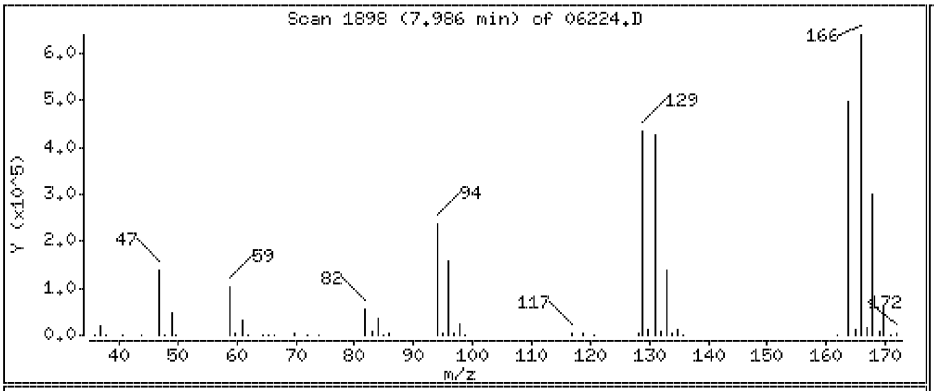
Operator: MJL

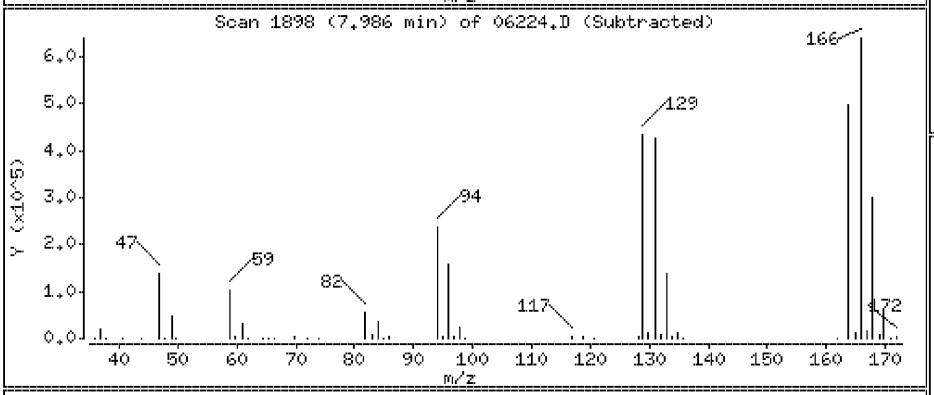
Column phase: J&W DB-5

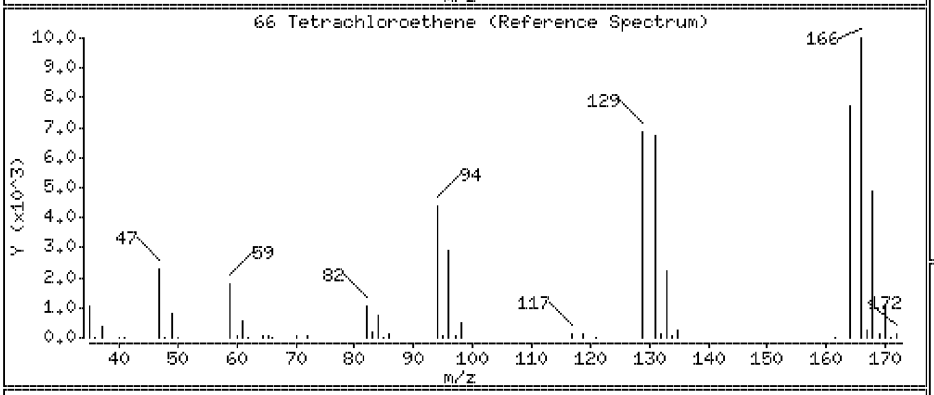
Column diameter: 0.32

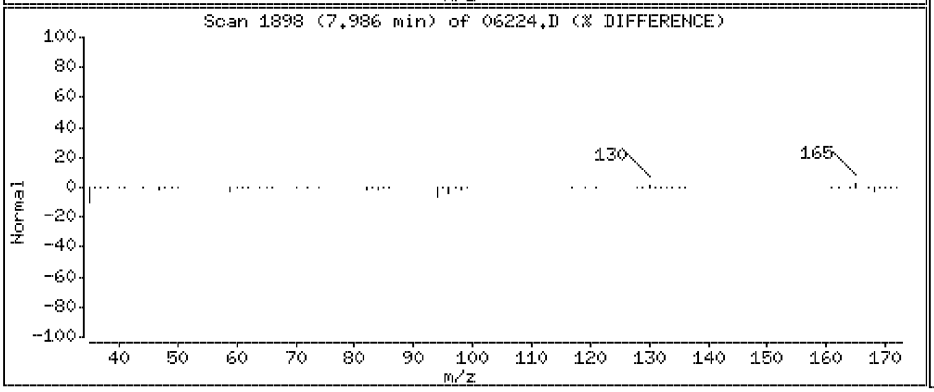
66 Tetrachloroethene

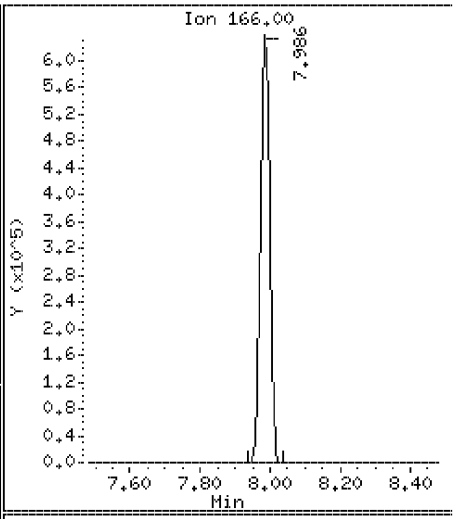
Concentration: 70.7 ppbv

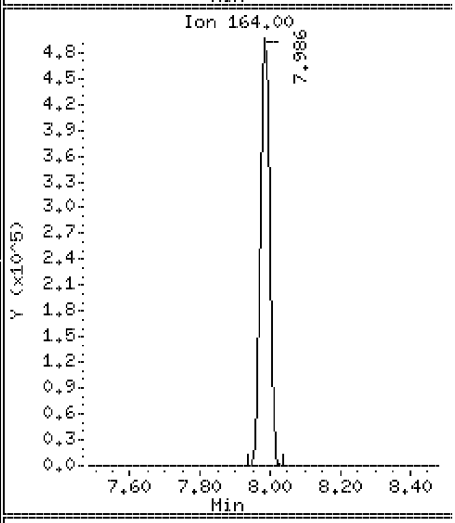


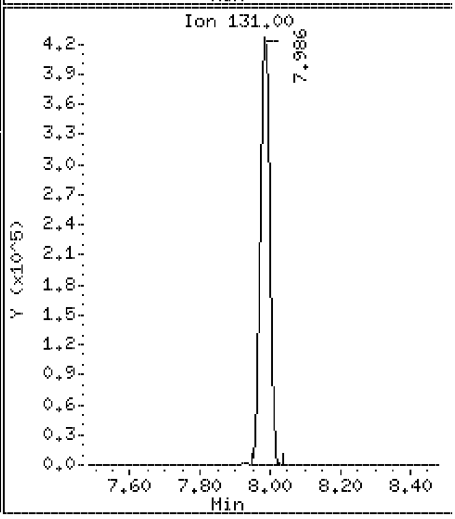












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

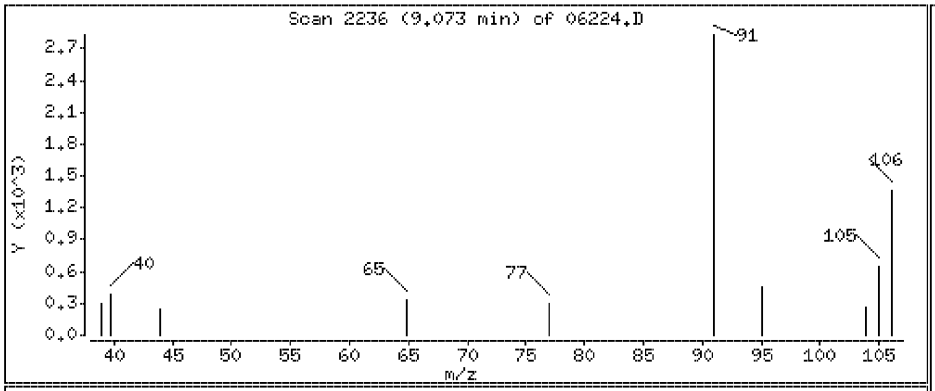
Operator: MJL

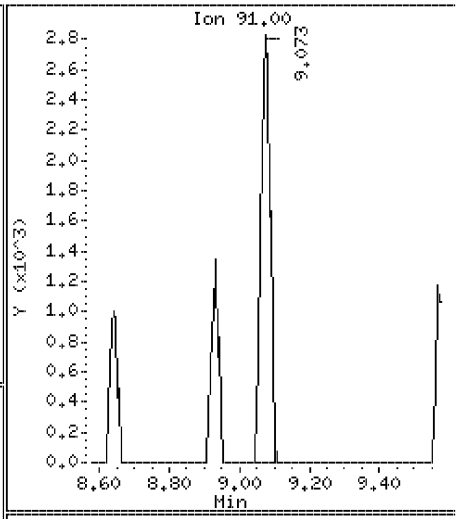
Column phase: J&W DB-5

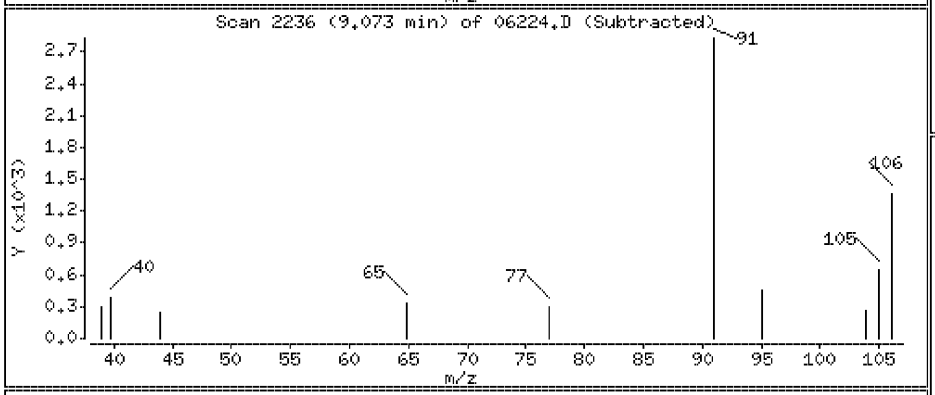
Column diameter: 0.32

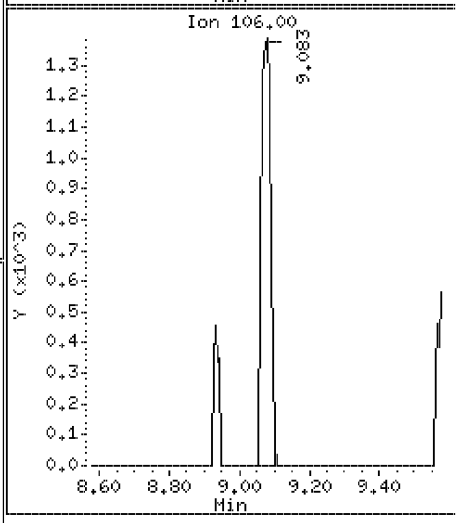
70 m&p-Xylene

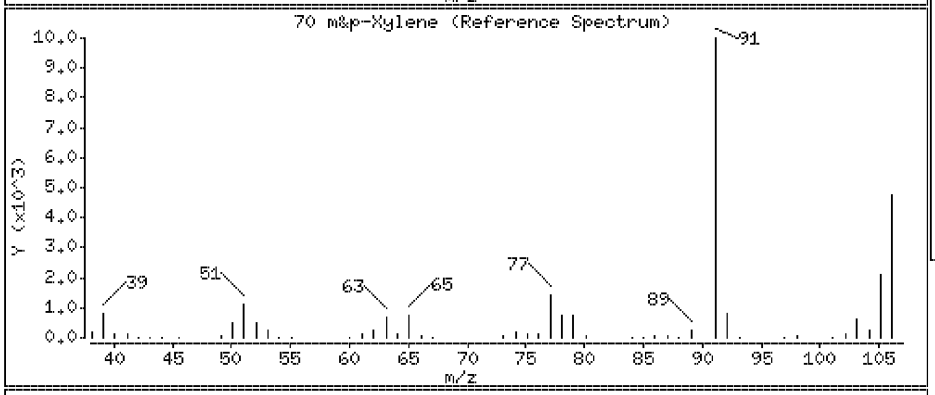
Concentration: 0.190 ppbv

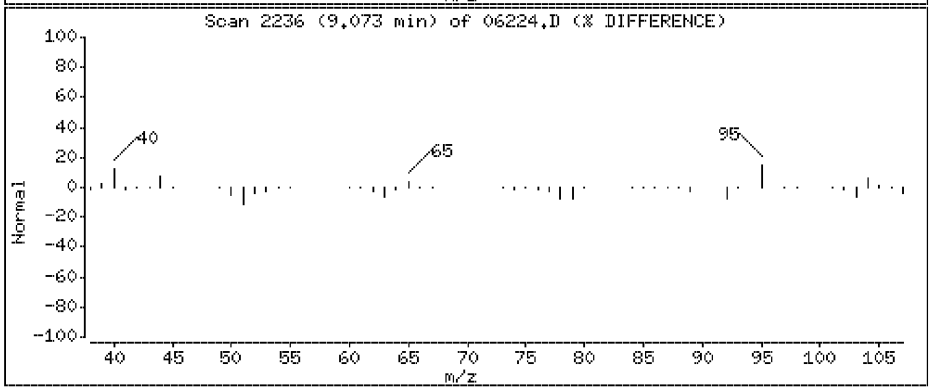












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06224.D

Date : 03-MAR-2017 19:29

Client ID:

Instrument: 10airB.i

Sample Info:

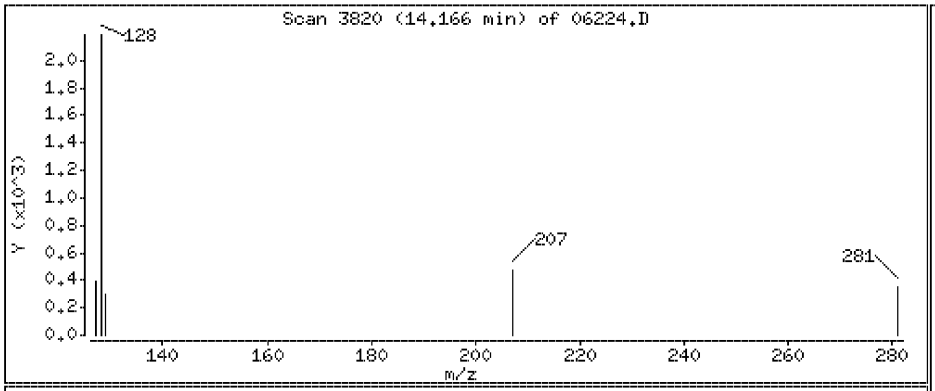
Operator: MJL

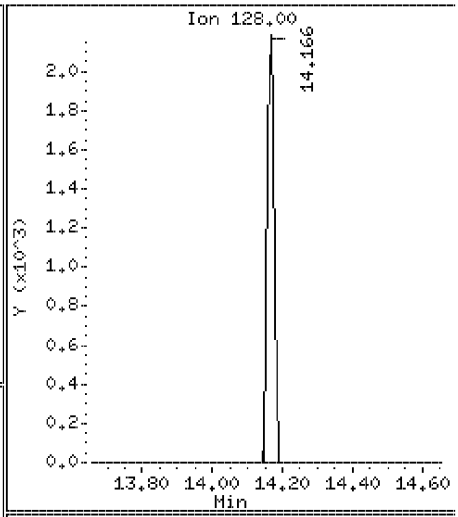
Column phase: J&W DB-5

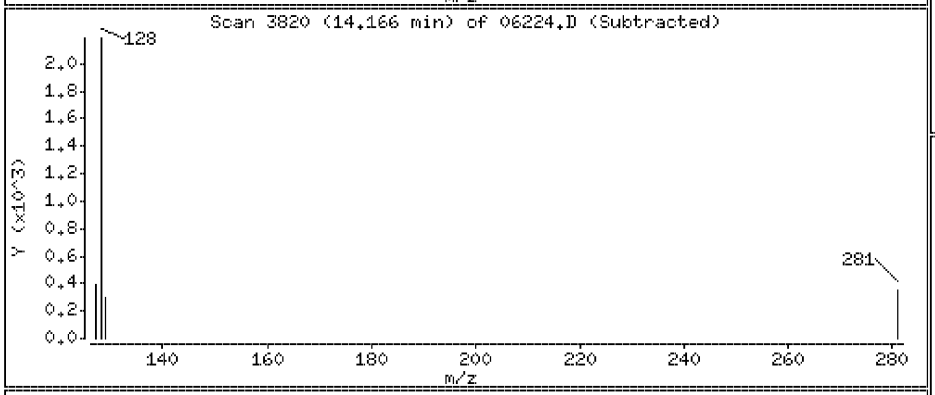
Column diameter: 0.32

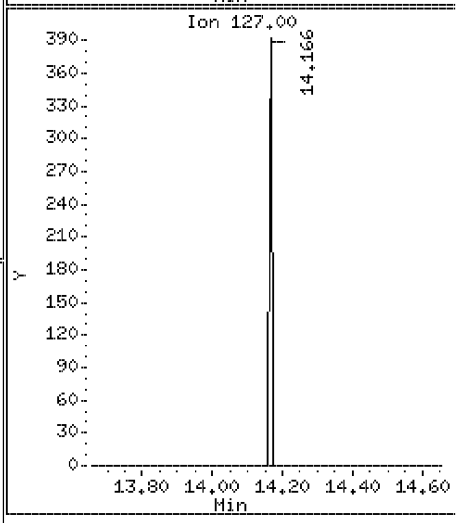
94 Naphthalene

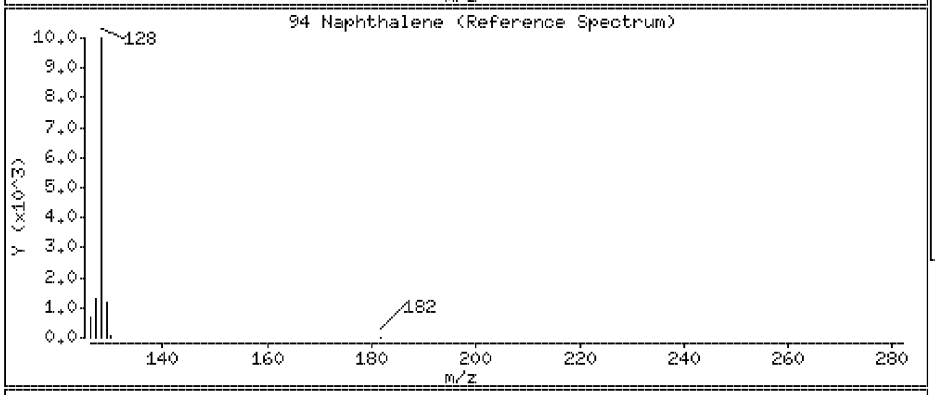
Concentration: 0.743 ppbv

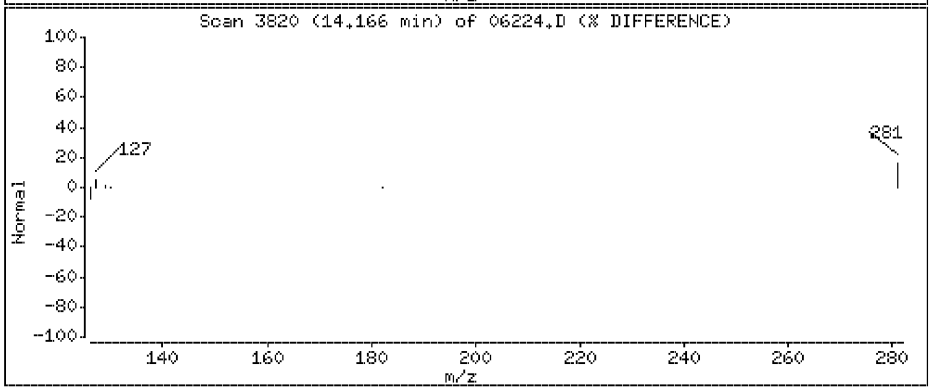






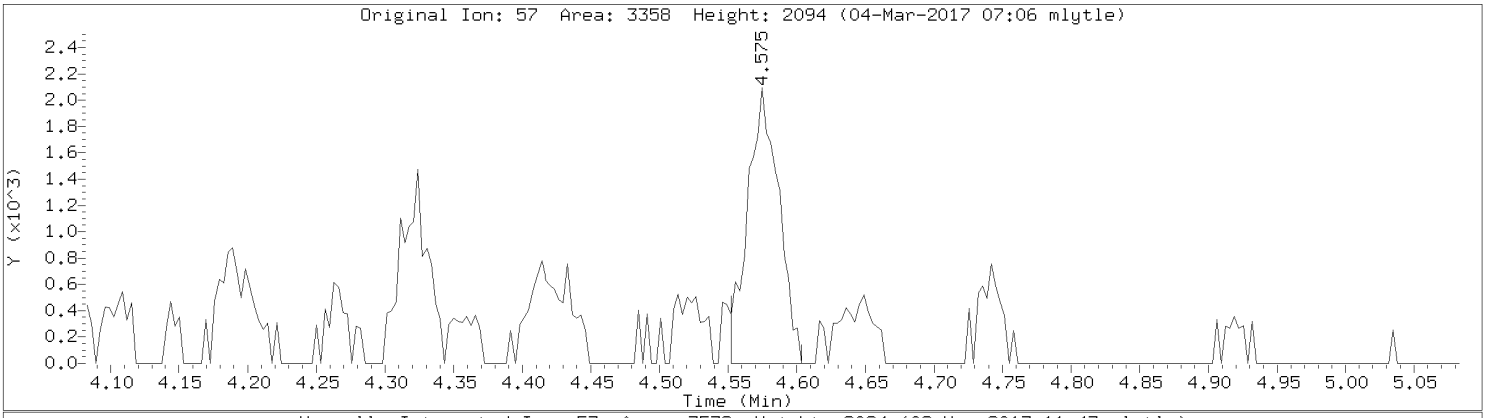


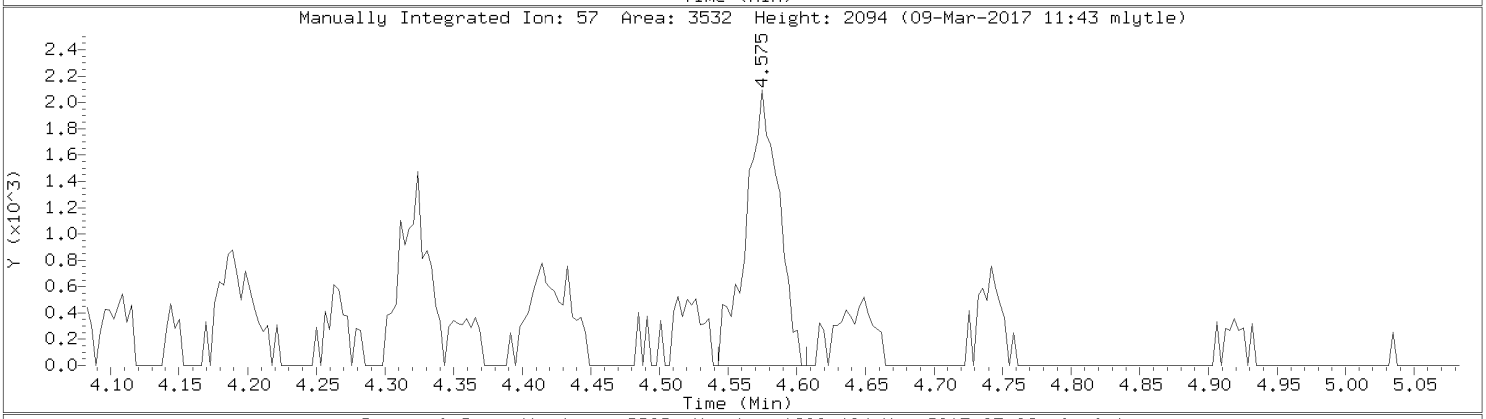


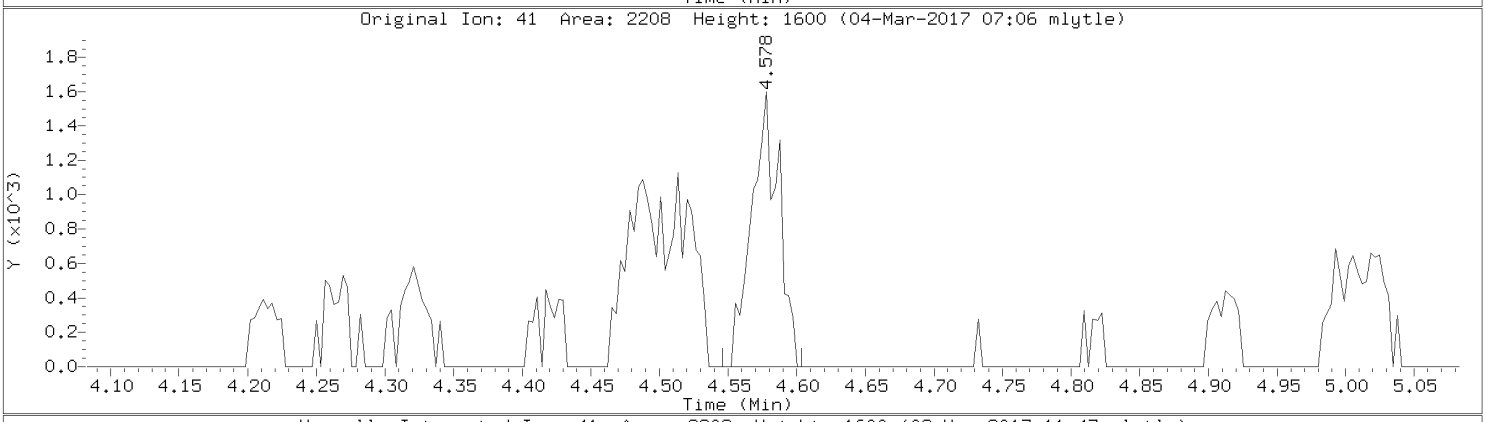


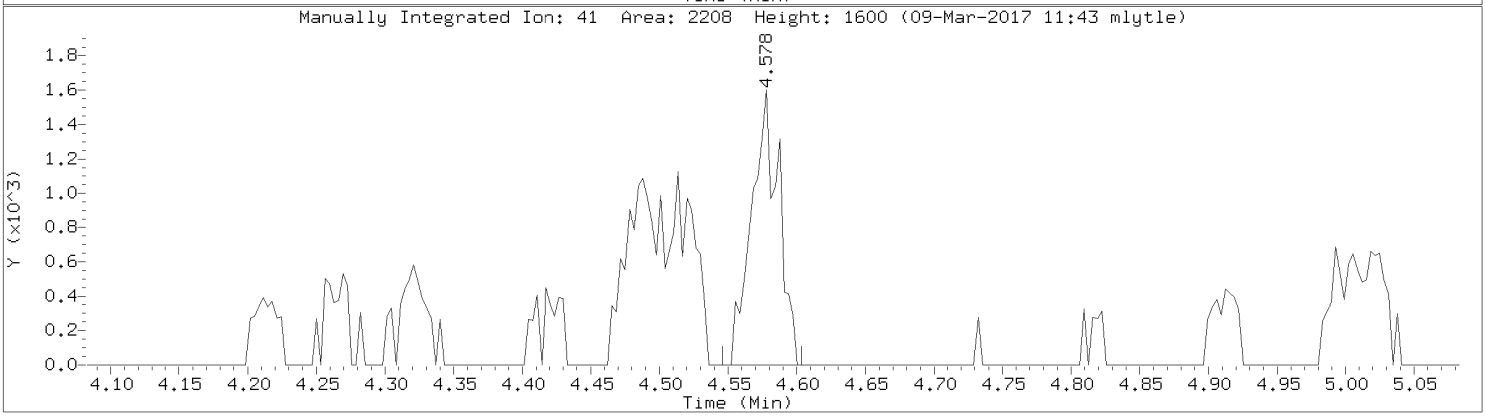
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06224.D
Injection Date: 03-MAR-2017 19:29
Instrument: 10airB.i
Lab Sample ID: 10379929006

Compound: n-Hexane
CAS Number: 110-54-3

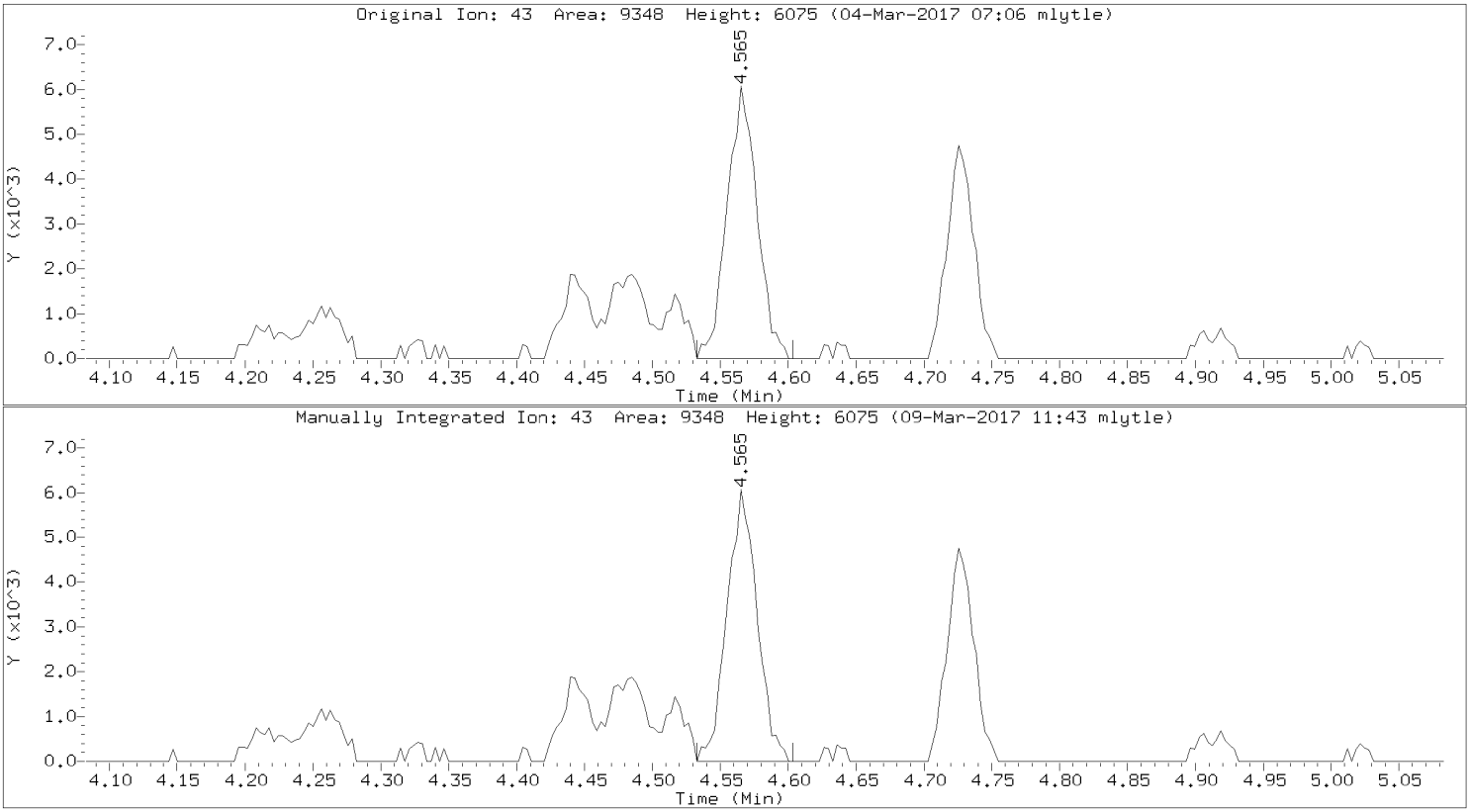






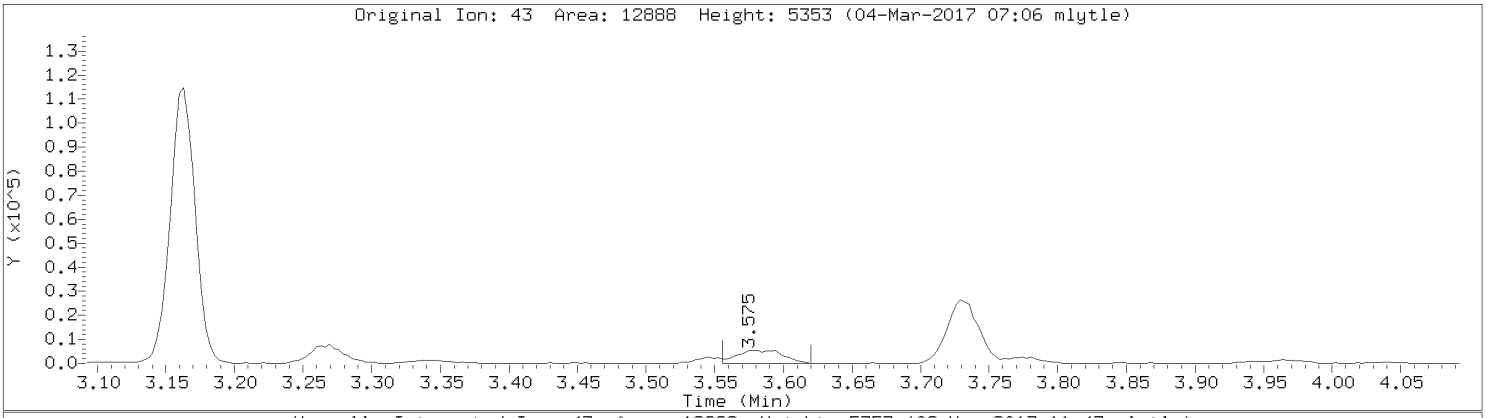


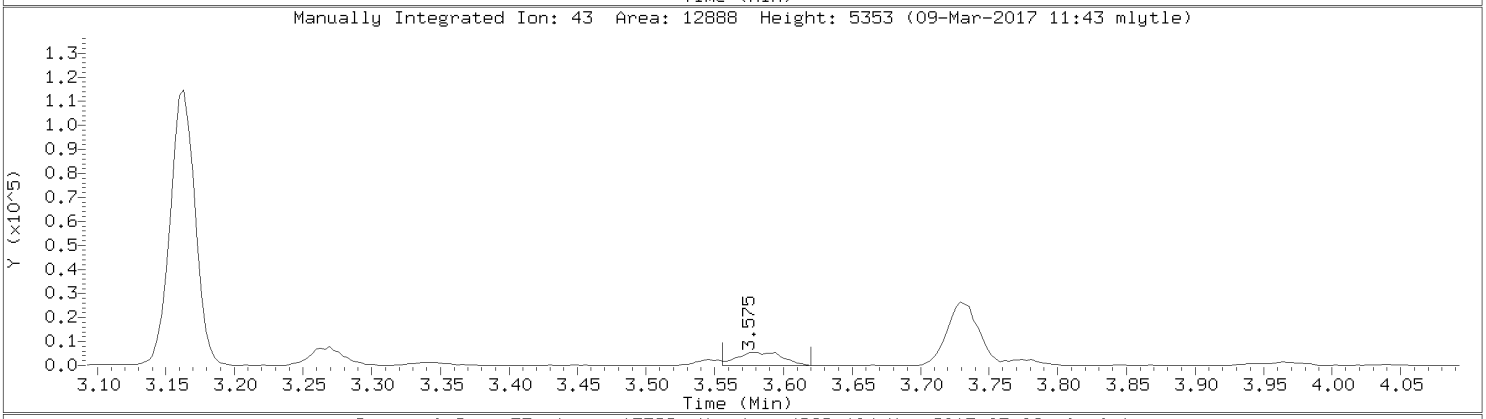
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06224.D
Injection Date: 03-MAR-2017 19:29
Instrument: 10airB.i
Lab Sample ID: 10379929006

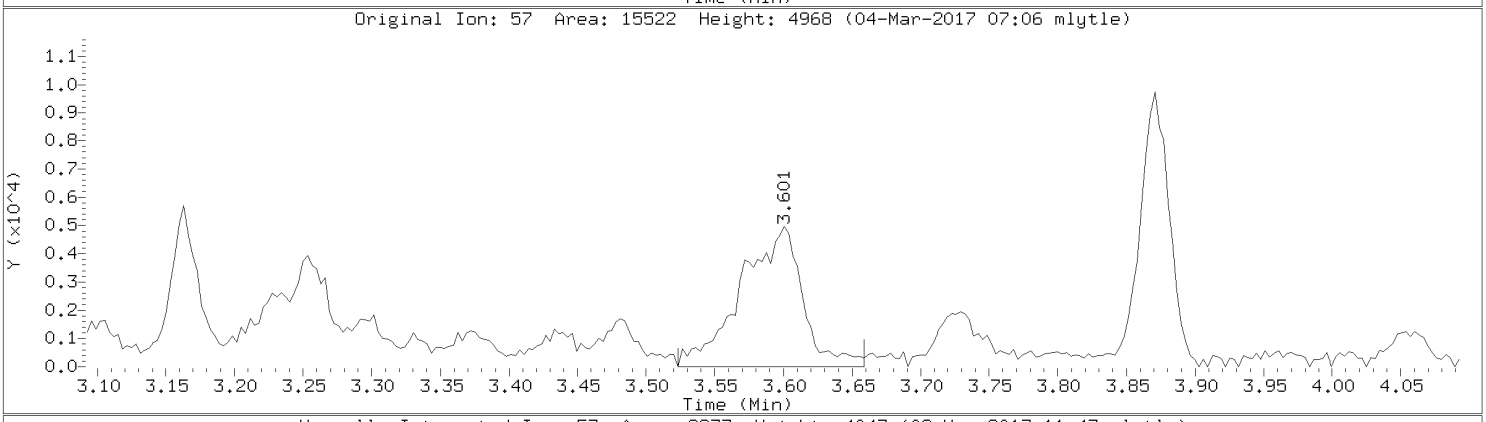


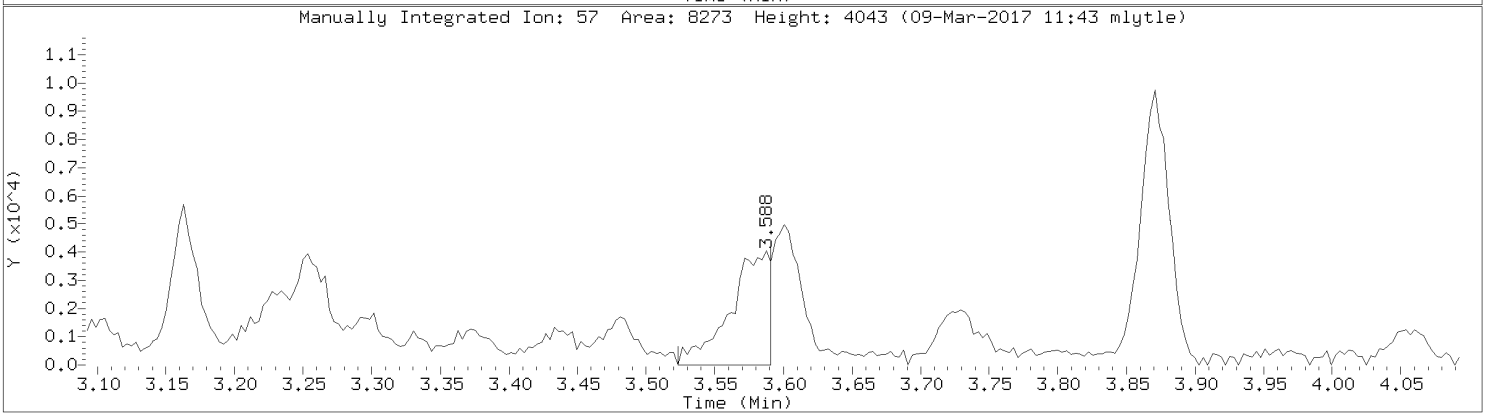
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06224.D
Injection Date: 03-MAR-2017 19:29
Instrument: 10airB.i
Lab Sample ID: 10379929006

Compound: Isopentane
CAS Number: 78-78-4

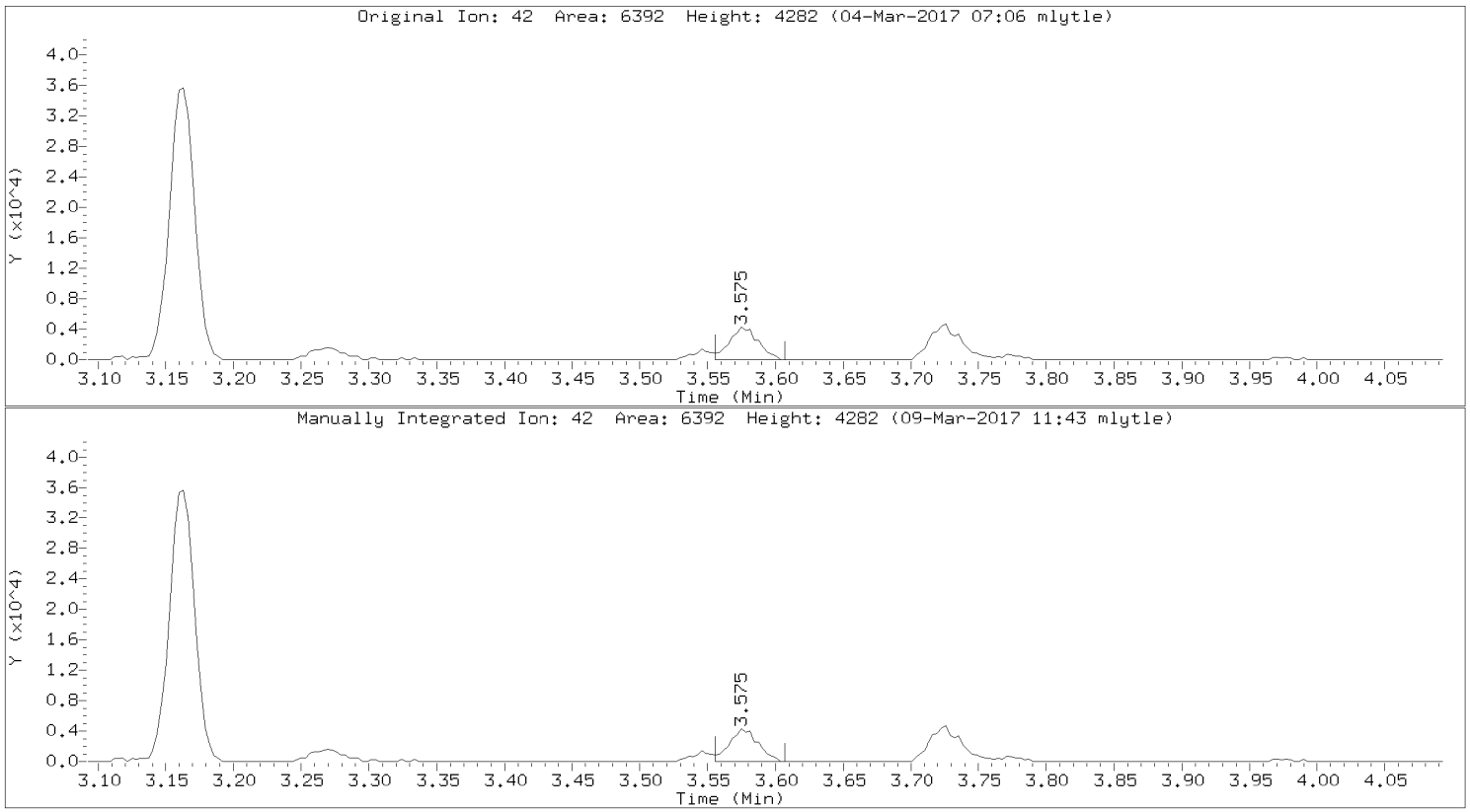








Data File: \\192.168.10.12\chem\10airB.i\030317.b/06224.D
Injection Date: 03-MAR-2017 19:29
Instrument: 10airB.i
Lab Sample ID: 10379929006



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_62_20170221 **Lab ID: 10379929007** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**18.7**	ug/m3	4.2	1.5	1.75		03/03/17 20:01	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 20:01	107-05-1	
Benzene	**0.45J**	ug/m3	0.57	0.21	1.75		03/03/17 20:01	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 20:01	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 20:01	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 20:01	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 20:01	106-99-0	
2-Butanone (MEK)	**2.6J**	ug/m3	5.2	0.40	1.75		03/03/17 20:01	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 20:01	75-15-0	
Carbon tetrachloride	**0.69J**	ug/m3	1.1	0.34	1.75		03/03/17 20:01	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 20:01	108-90-7	
Chlorodifluoromethane	**88.4**	ug/m3	1.3	0.48	1.75		03/03/17 20:01	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 20:01	75-00-3	
Chloroform	**20.7**	ug/m3	0.87	0.33	1.75		03/03/17 20:01	67-66-3	
Chloromethane	**0.75**	ug/m3	0.74	0.19	1.75		03/03/17 20:01	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 20:01	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 20:01	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 20:01	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 20:01	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 20:01	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 20:01	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 20:01	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 20:01	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.8	0.84	1.75		03/03/17 20:01	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 20:01	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 20:01	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 20:01	75-35-4	
cis-1,2-Dichloroethene	**55.0**	ug/m3	1.4	0.43	1.75		03/03/17 20:01	156-59-2	
trans-1,2-Dichloroethene	**0.87J**	ug/m3	1.4	0.67	1.75		03/03/17 20:01	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 20:01	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 20:01	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 20:01	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 20:01	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 20:01	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 20:01	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/03/17 20:01	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/03/17 20:01	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 20:01	87-68-3	
n-Hexane	**0.80J**	ug/m3	1.3	0.62	1.75		03/03/17 20:01	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 20:01	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 20:01	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 20:01	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 20:01	108-87-2	
Methylene Chloride	**16.9**	ug/m3	6.2	0.95	1.75		03/03/17 20:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 20:01	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 20:01	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06411.D
Report Date: 06-Mar-2017 12:19

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06411.D
Lab Smp Id: 10379929007
Inj Date : 05-MAR-2017 13:43
Operator : CH1 Inst ID: 10air7.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 11
Dil Factor: 17.50000
Integrator: HP RTE Compound Sublist: TCE_PCE.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	17.500	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$ 32 Hexane-d14(S)	66	3.526	3.520	(0.784)	245877	12.5630	12.6
44 Carbon tetrachloride	117	Compound Not Detected.					
* 47 1,4-Difluorobenzene	114	4.500	4.504	(1.000)	717049	10.0000	
51 Trichloroethene	130	4.835	4.835	(1.074)	161419	4.77129	83.5
$ 59 Toluene-d8 (S)	98	5.835	5.835	(1.296)	595329	9.89045	9.89
66 Tetrachloroethene	166	6.684	6.683	(0.915)	81305	1.77871	31.1
* 67 Chlorobenzene - d5	117	7.307	7.310	(1.000)	461020	10.0000	
$ 85 1,4-dichlorobenzene-d4 (S)	150	10.484	10.487	(1.435)	170149	9.02051	9.02

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06411.D
Report Date: 06-Mar-2017 12:19

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06411.D
Lab Smp Id: 10379929007
Analysis Type: VOA
Quant Type: ISTD
Operator: CH1
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info: 27830

Calibration Date: 05-MAR-2017
Calibration Time: 10:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

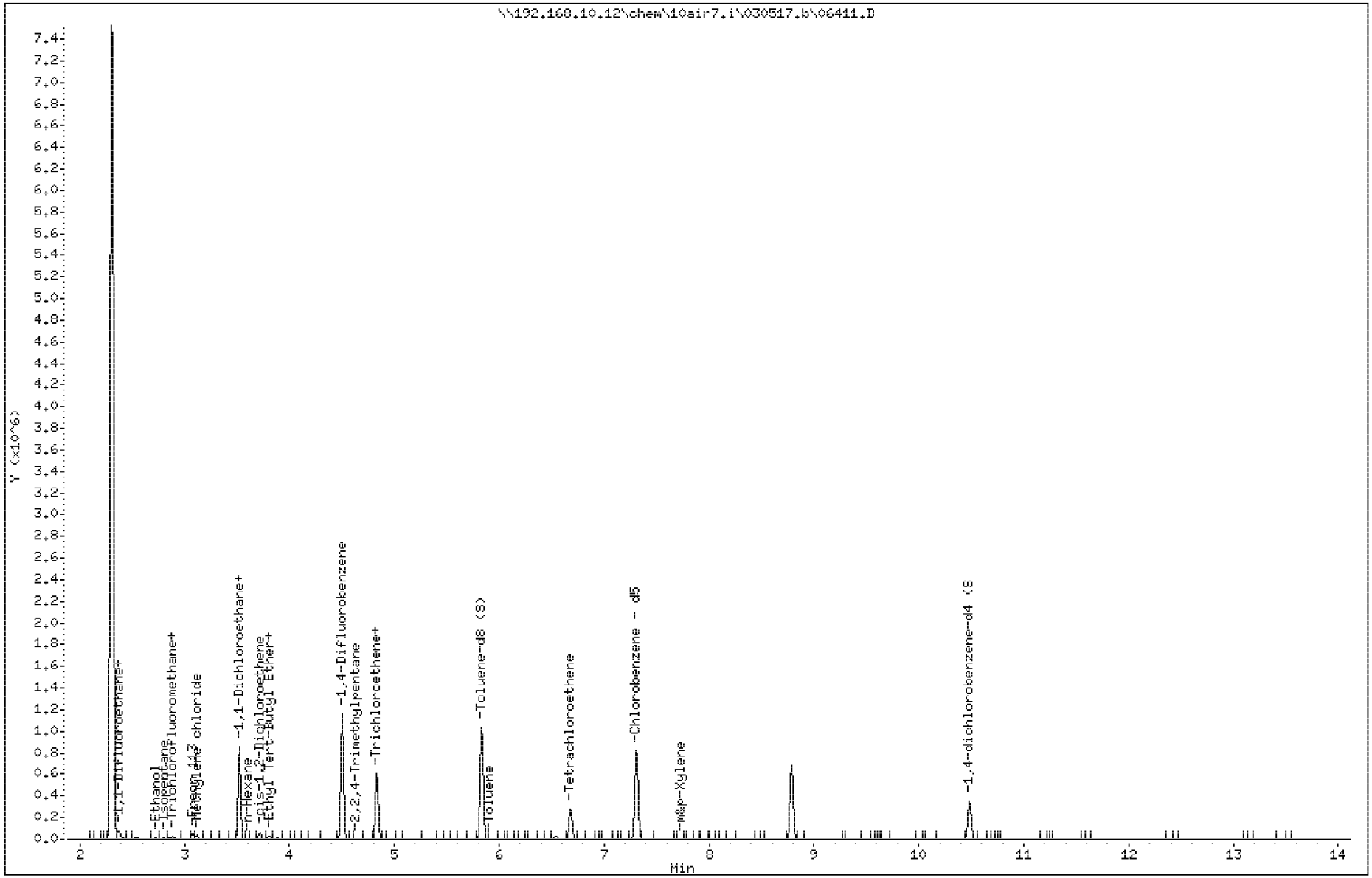
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	717049	-14.23
67 Chlorobenzene - d	539522	323713	755331	461020	-14.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.50	4.17	4.83	4.50	-0.07
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06411.D
Date : 05-MAR-2017 13:43
Client ID:
Sample Info:

Instrument: 10air7.i
Operator: CH1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06411.D

Date : 05-MAR-2017 13:43

Client ID:

Instrument: 10air7.i

Sample Info:

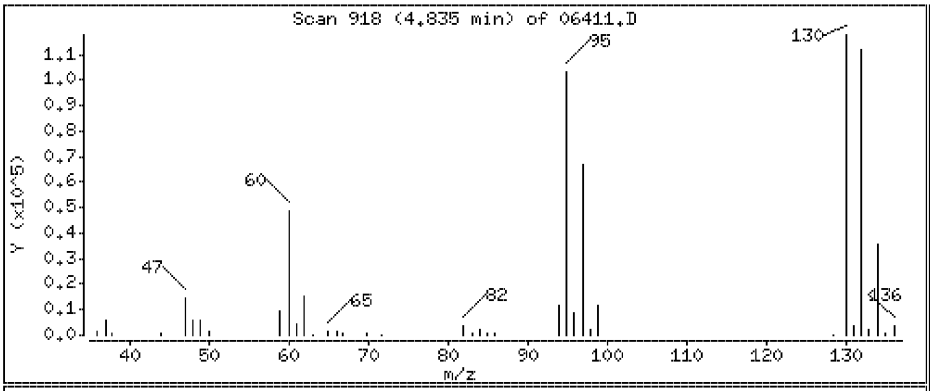
Operator: CH1

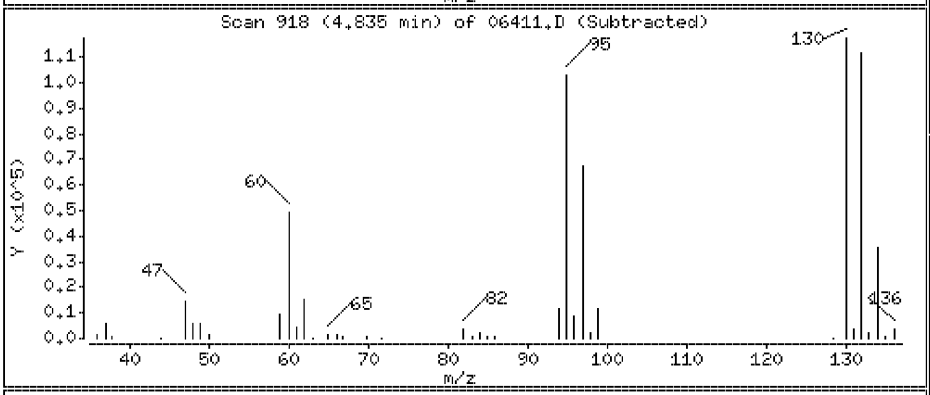
Column phase: J&W DB-5

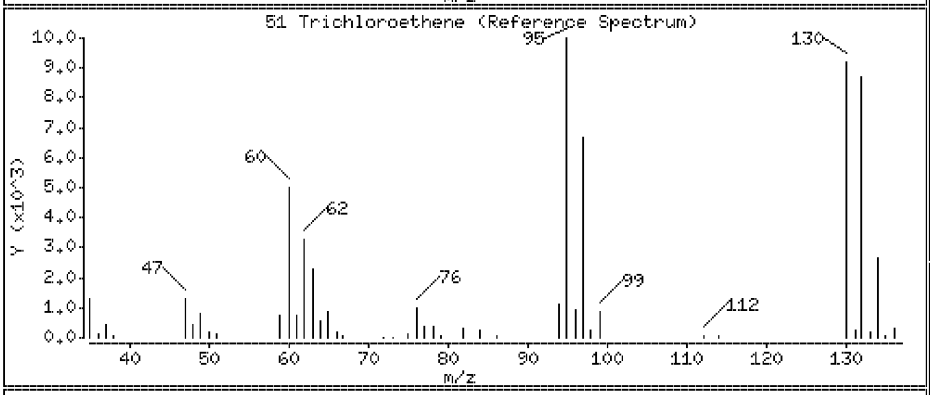
Column diameter: 0.32

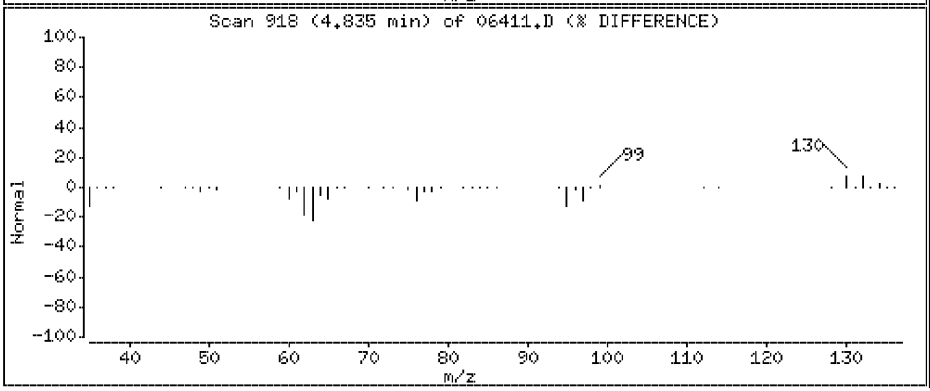
51 Trichloroethene

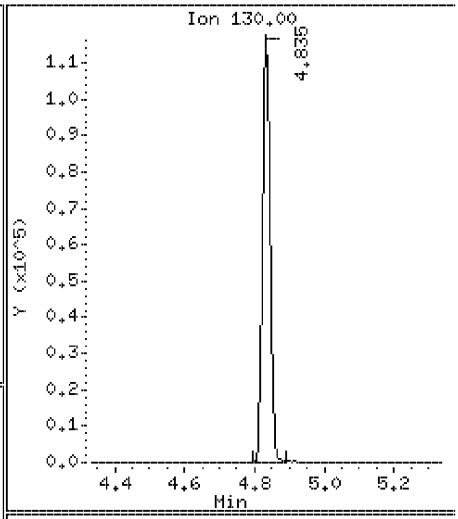
Concentration: 83.5 ppbv

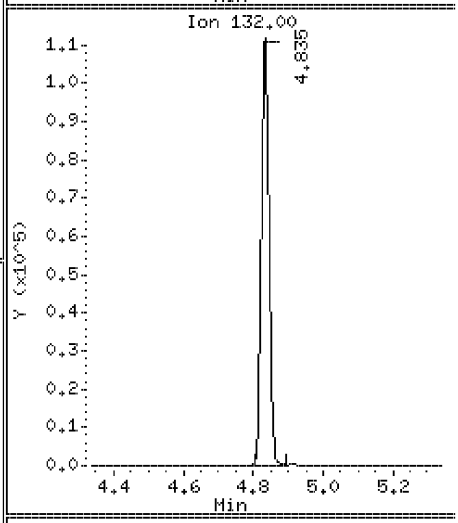


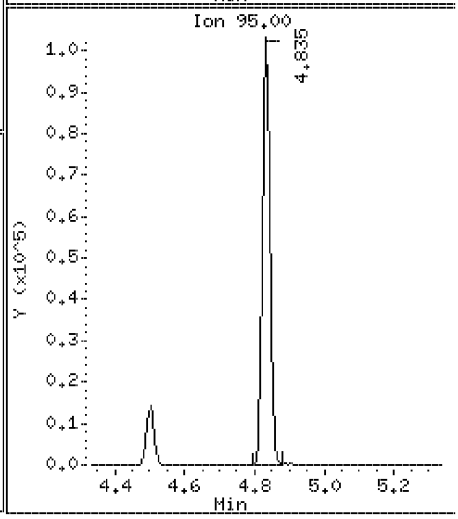












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06411.D

Date : 05-MAR-2017 13:43

Client ID:

Instrument: 10air7.i

Sample Info:

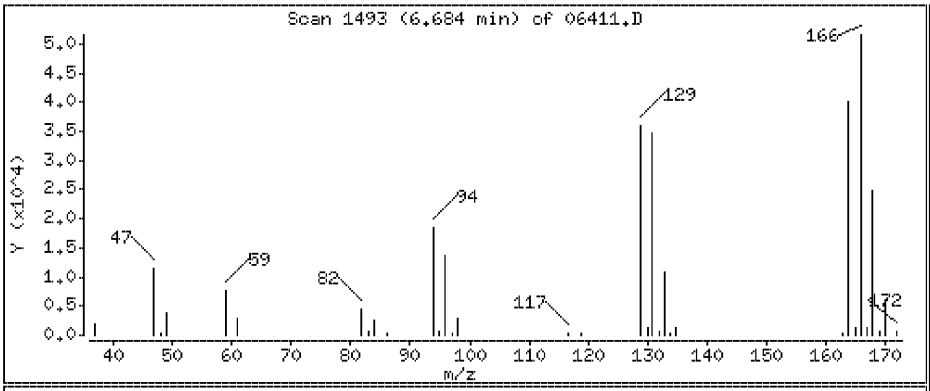
Operator: CH1

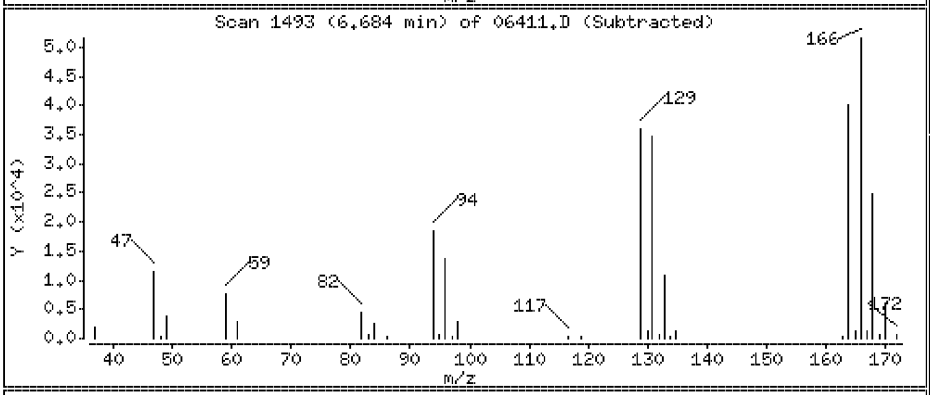
Column phase: J&W DB-5

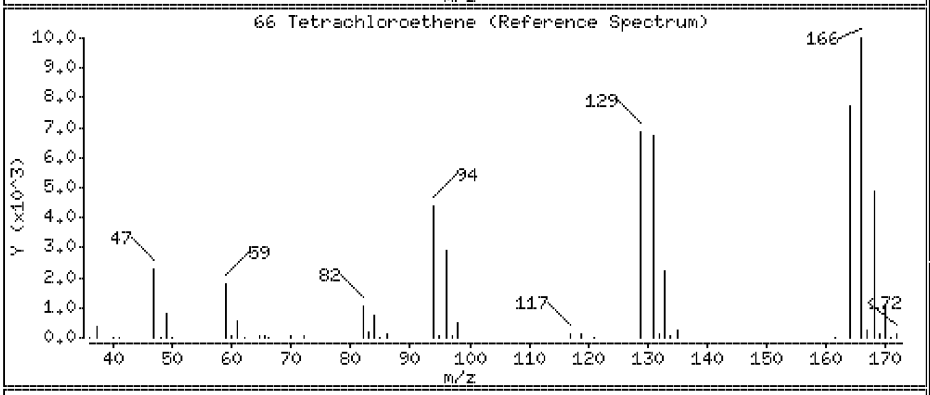
Column diameter: 0.32

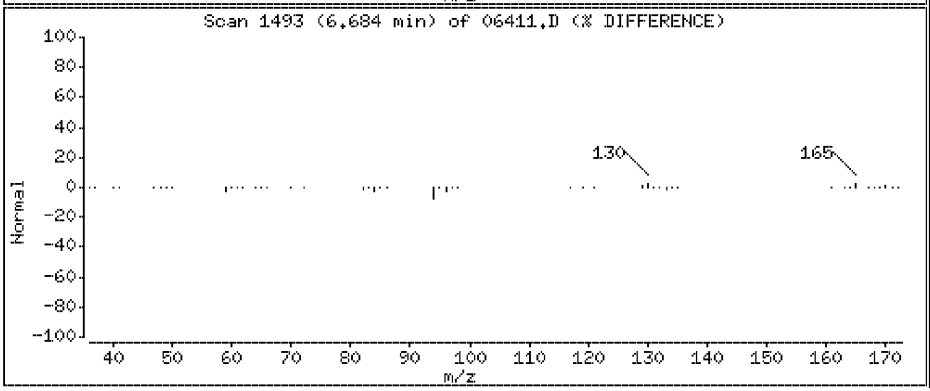
66 Tetrachloroethene

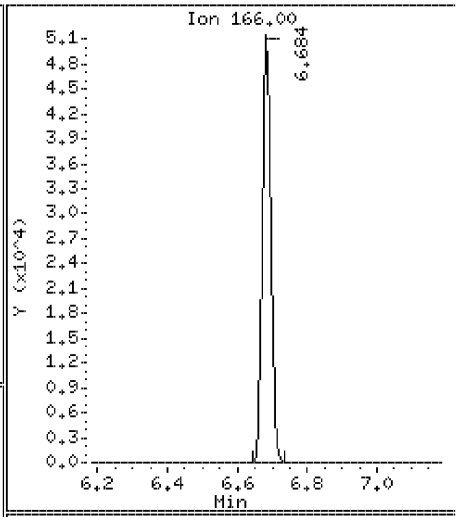
Concentration: 31.1 ppbv

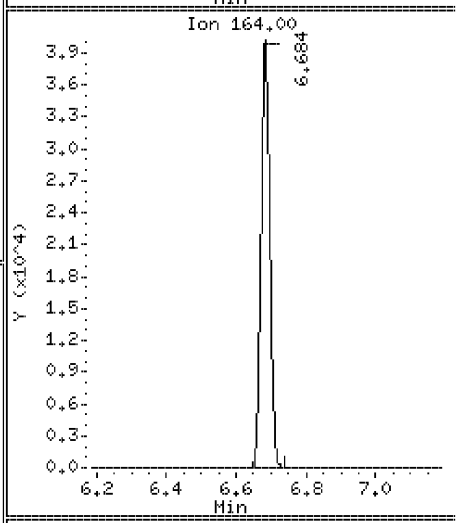


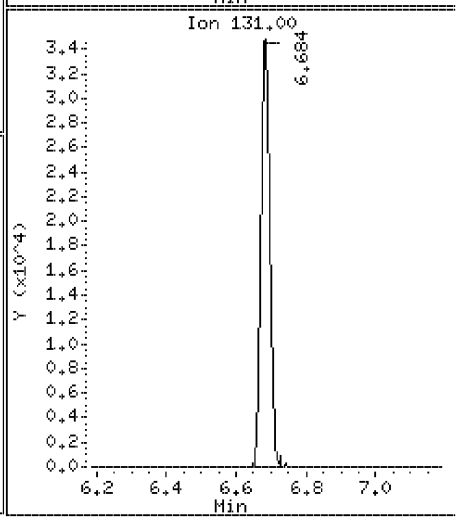












Data File: \\192.168.10.12\chem\10air7.i\030517.b/06411.D
Injection Date: 05-MAR-2017 13:43
Instrument: 10air7.i
Lab Sample ID: 10379929007
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D
Report Date: 04-Mar-2017 08:15

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030317.b\06225.D
Lab Smp Id: 10379929007
Inj Date : 03-MAR-2017 20:01
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Meth Date : 04-Mar-2017 07:02 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 25
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	3.008	3.005	(0.537)	14233	1.99172	3.49(Q)	
3	Chlorodifluoromethane	67	3.015	3.015	(0.538)	48077	14.0535	24.6(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.053	3.050	(0.545)	11758	0.26292	0.460	
6	Chloromethane	50	3.147	3.146	(0.562)	2855	0.20386	0.357	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.542	(0.632)	34688	7.74501	13.6	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.651	3.671	(0.652)	25902	0.77511	1.36	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.719	3.719	(0.664)	85410	4.41626	7.73	
19	Isopropyl Alcohol	45	3.767	3.764	(0.672)	14280	0.72399	1.27	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.934	3.944	(0.702)	51948	2.05857	3.60	
23	Methyl Acetate	43	3.957	3.957	(0.706)	4219	0.14328	0.251(Q)	

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D
Report Date: 04-Mar-2017 08:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.970	3.954	(0.709)	3529	0.13918	0.244(Q)	
	25 Methylene chloride	49	3.983	4.002	(0.711)	37397	2.73966	4.79	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.250	4.272	(0.758)	1344	0.12325	0.216(Q)	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	4.439	4.388	(0.792)	3780	0.29882	0.523(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.487	(0.800)	363694	9.37837	9.38	
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.814)	2400	0.48632	0.851	
	34 n-Hexane	57	4.581	4.584	(0.818)	2481	0.12764	0.223(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.703	4.725	(0.839)	94960	7.79414	13.6(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.815	4.841	(0.859)	60248	2.38585	4.18	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.455	5.465	(0.974)	3134	0.07972	0.140(M)	
	44 Carbon tetrachloride	117	5.475	5.484	(0.977)	1831	0.06167	0.108	
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.603	5.609	(1.000)	1218911	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.976	5.986	(1.067)	902557	44.0702	77.1(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.072	(1.262)	1038464	9.51882	9.52	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.147	7.153	(1.275)	9176	0.18639	0.326	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.574	7.580	(0.877)	4045	0.14002	0.245(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.982	(0.924)	516272	17.6036	30.8	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	844590	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.076	9.079	(1.051)	11009	0.22579	0.395	
	71 n-Nonane	43	9.468	9.468	(1.096)	4201	0.16705	0.292(M)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.500	9.506	(1.100)	1038	0.10181	0.178(QM)	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D
Report Date: 04-Mar-2017 08:15

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppbv)	(ppbv)	
	78	4-Ethyltoluene	105	Compound Not Detected.						(D)
	79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
	80	n-Decane	57	11.378	11.378	(2.031)	7857	0.48334	0.846	
	81	Tert-Butyl Benzene	119	Compound Not Detected.						
	82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
	83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
	84	Sec- Butylbenzene	105	Compound Not Detected.						
$	85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	452115	9.71755	9.72	
	86	Benzyl Chloride	91	Compound Not Detected.						
	87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
	88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
	89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
	90	1,2-Dichlorobenzene	146	Compound Not Detected.						(D)
	91	N-Butylbenzene	91	Compound Not Detected.						
	92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
	93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	94	Naphthalene	128	14.166	14.156	(1.640)	26349	1.08689	1.90	
	95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D
Report Date: 04-Mar-2017 08:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06225.D
Lab Smp Id: 10379929007
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Misc Info: 27830

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

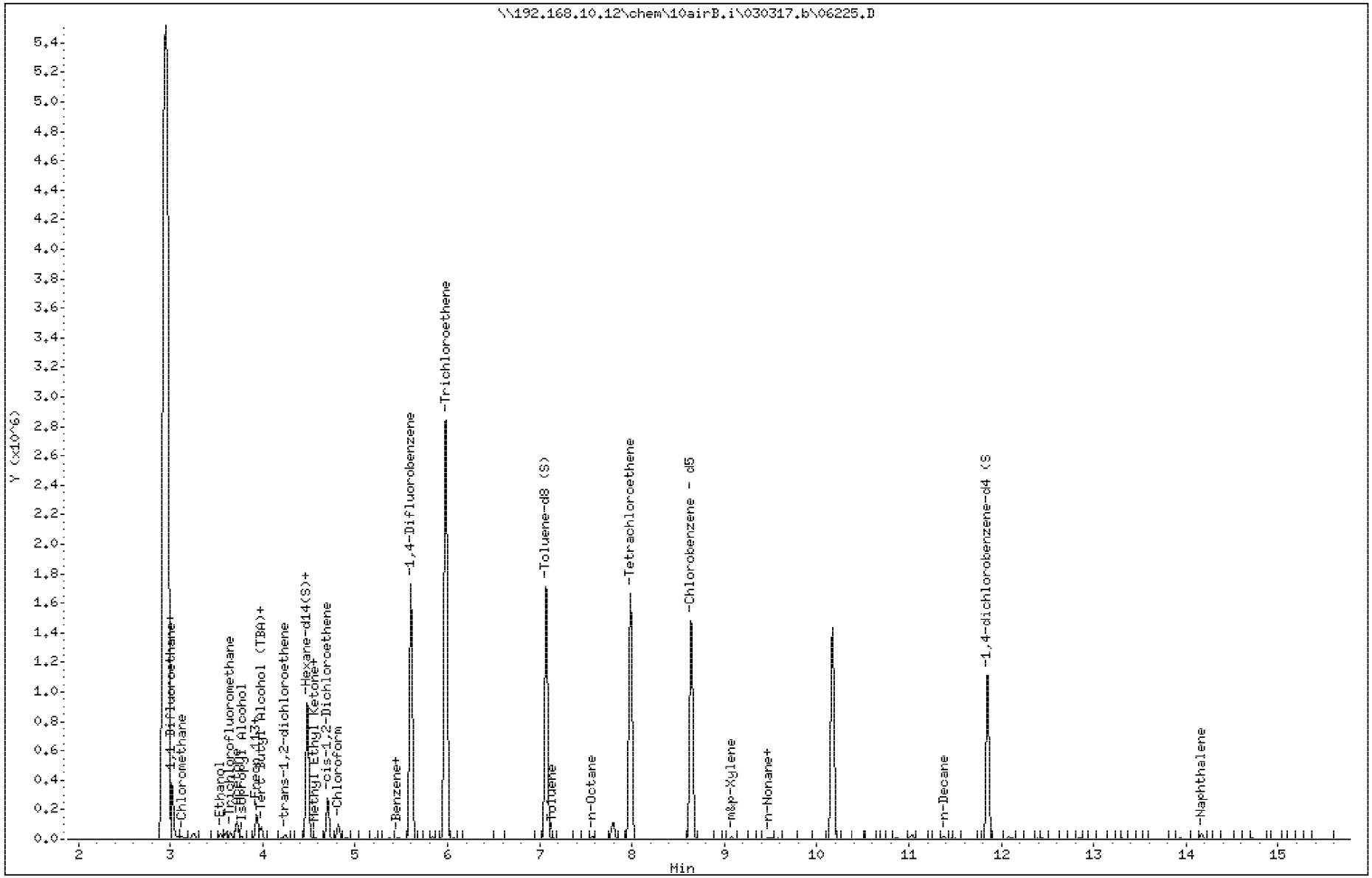
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1218911	-13.80
67 Chlorobenzene - d	951026	570616	1331436	844590	-11.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D
Date : 03-MAR-2017 20:01
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

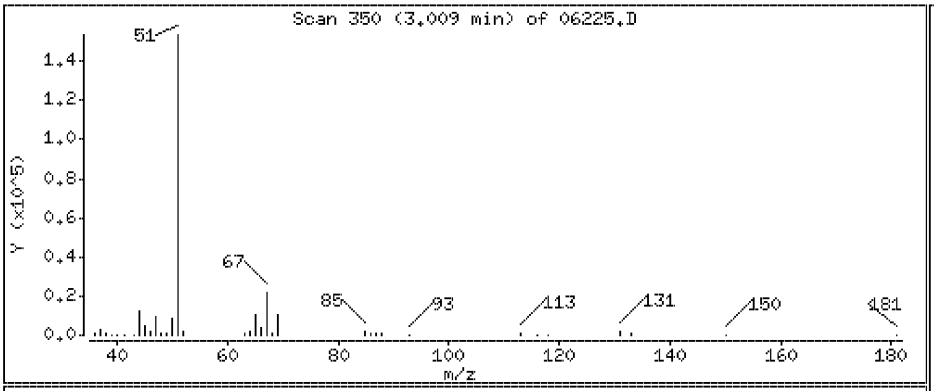
Operator: MJL

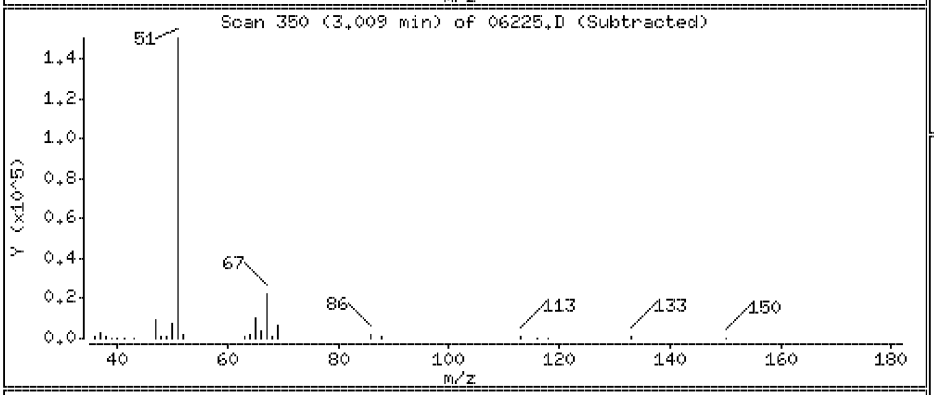
Column phase: J&W DB-5

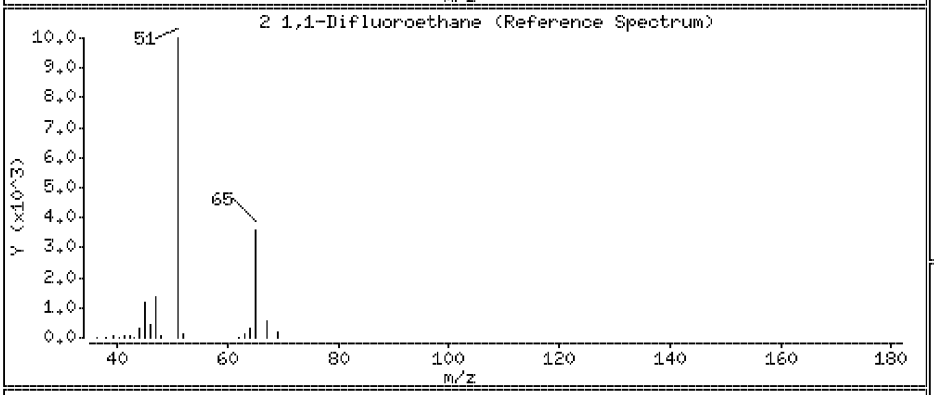
Column diameter: 0.32

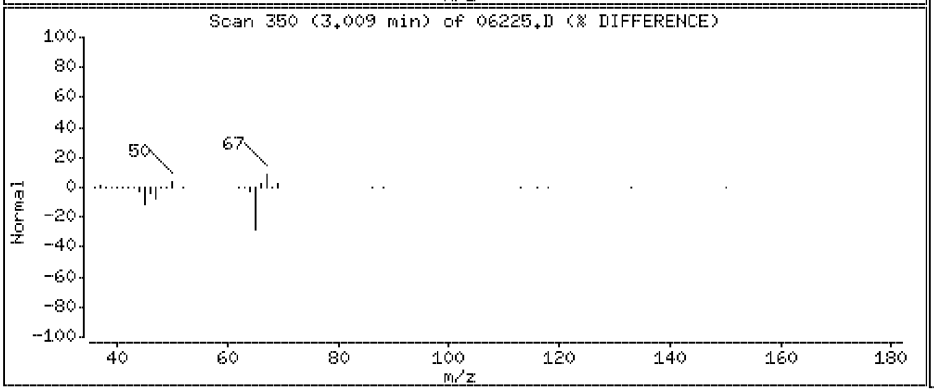
2 1,1-Difluoroethane

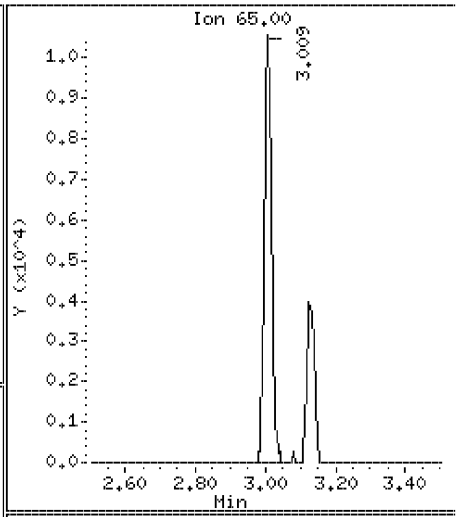
Concentration: 3.49 ppbv

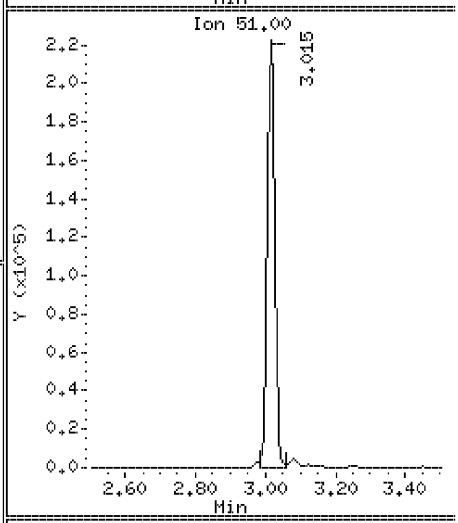


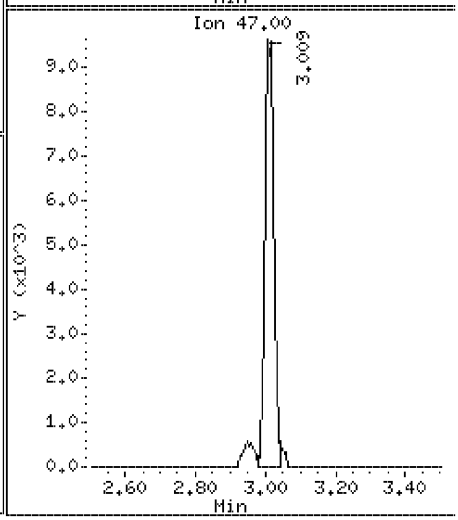












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

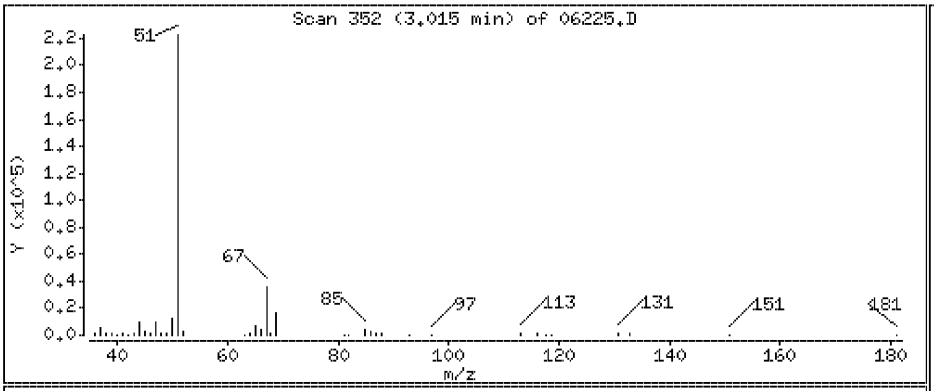
Operator: MJL

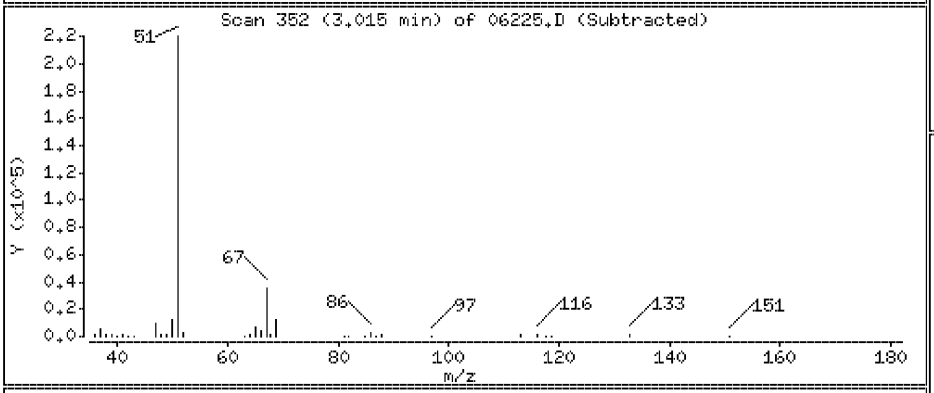
Column phase: J&W DB-5

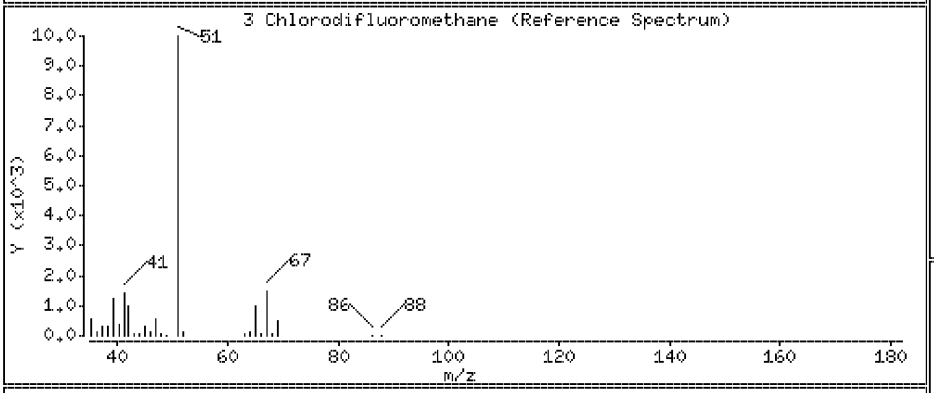
Column diameter: 0.32

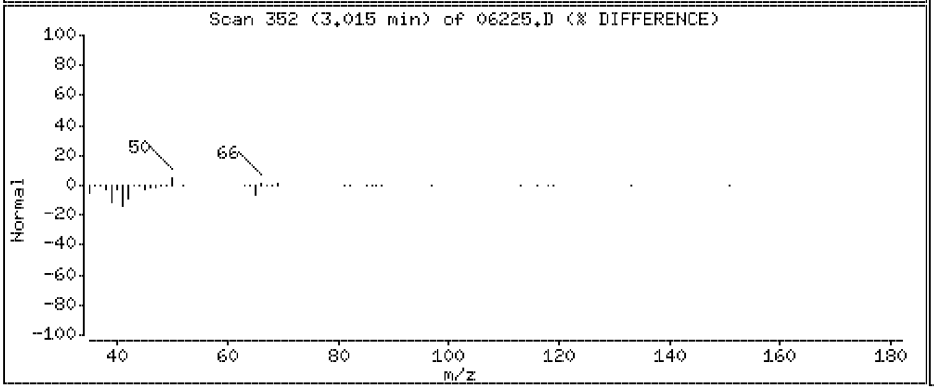
3 Chlorodifluoromethane

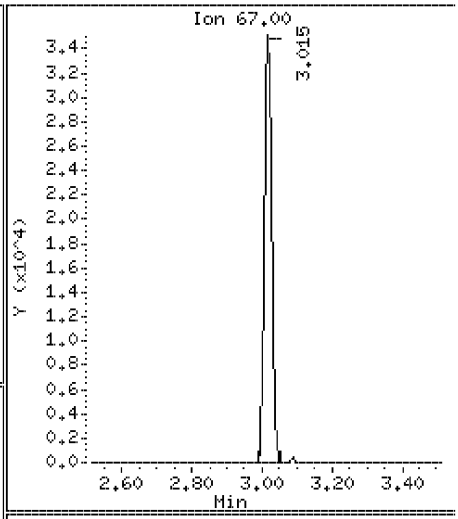
Concentration: 24.6 ppbv

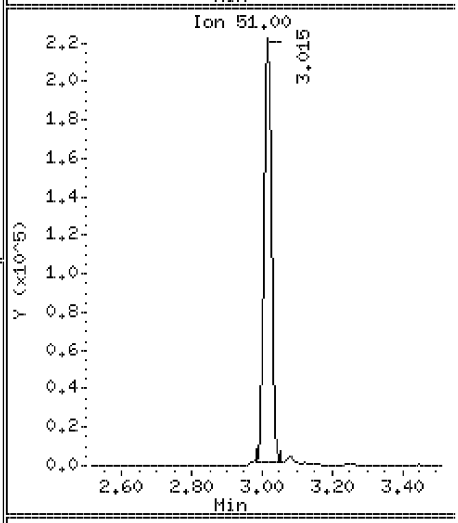


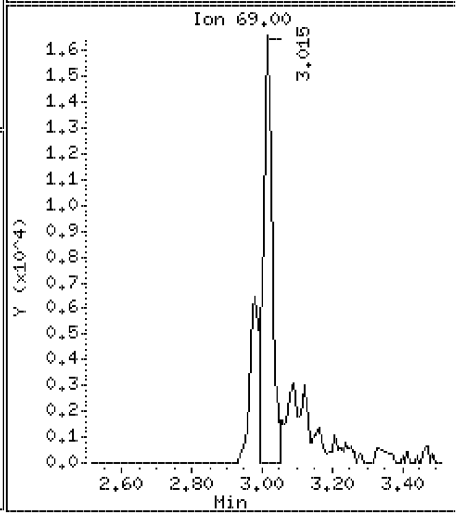












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

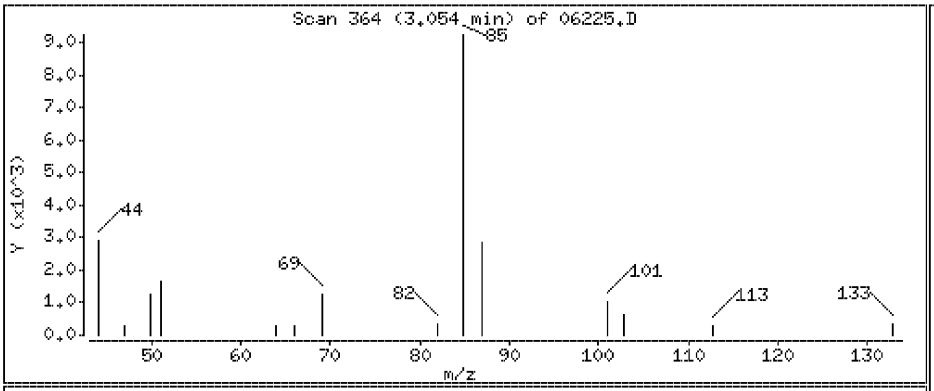
Operator: MJL

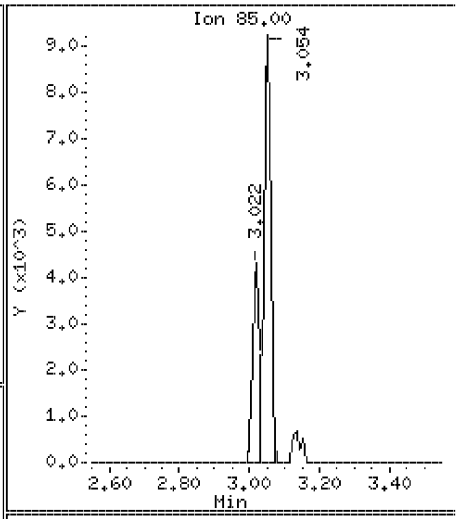
Column phase: J&W DB-5

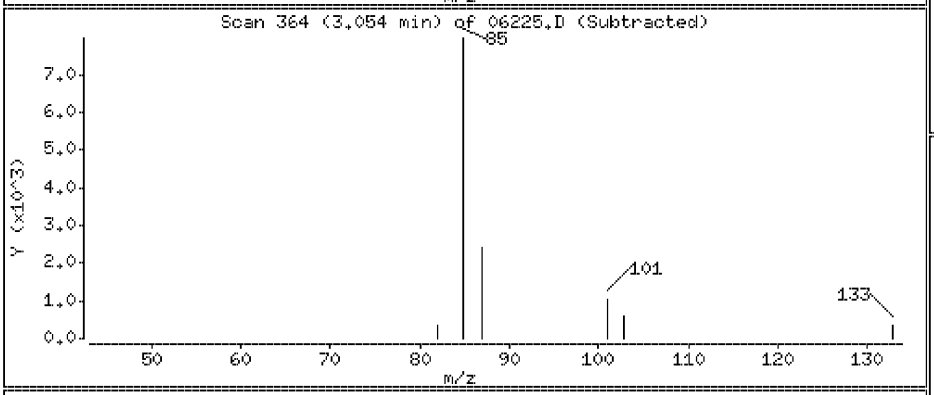
Column diameter: 0.32

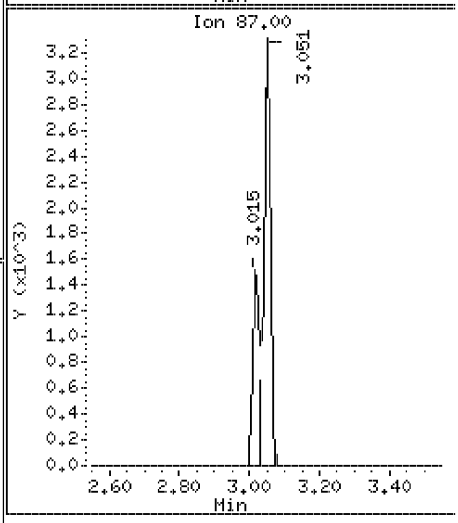
5 Dichlorodifluoromethane

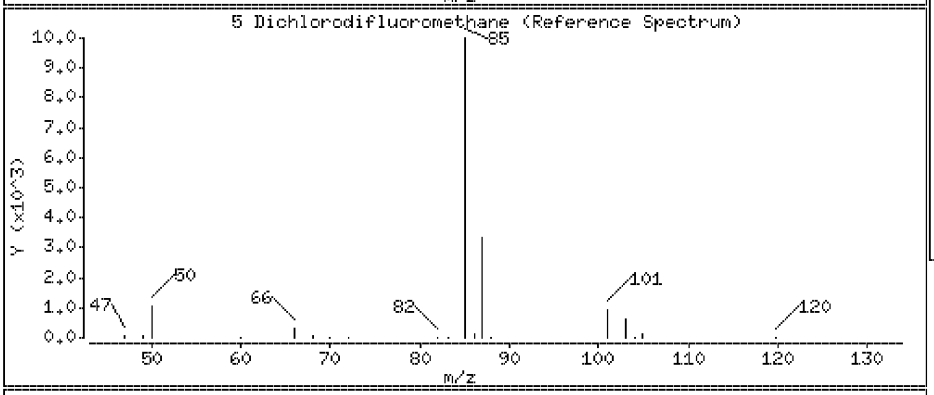
Concentration: 0.460 ppbv

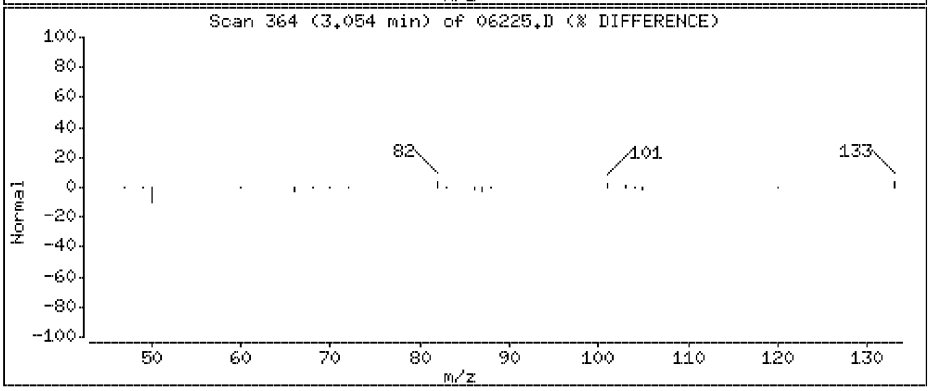












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

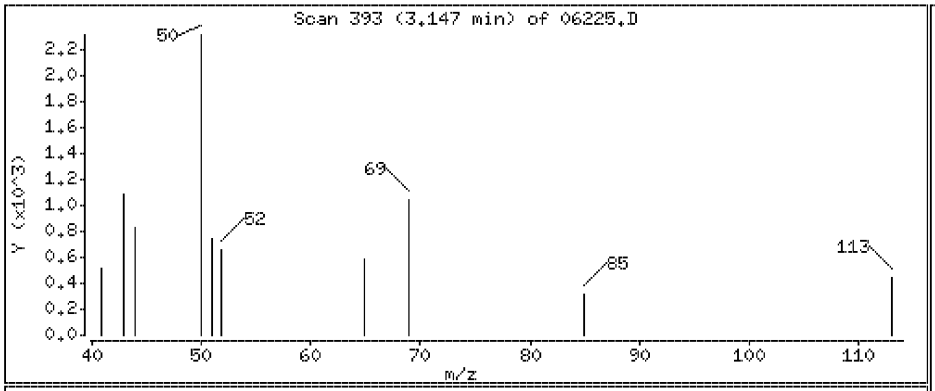
Operator: MJL

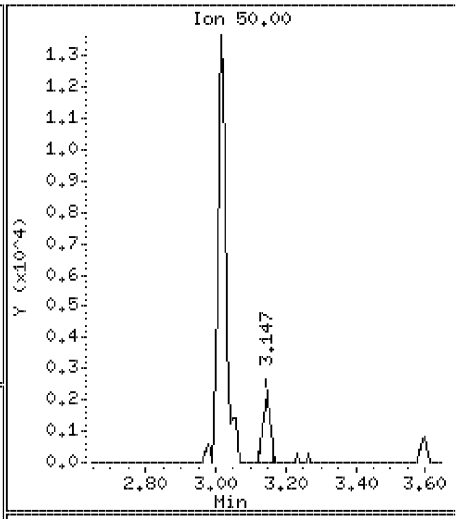
Column phase: J&W DB-5

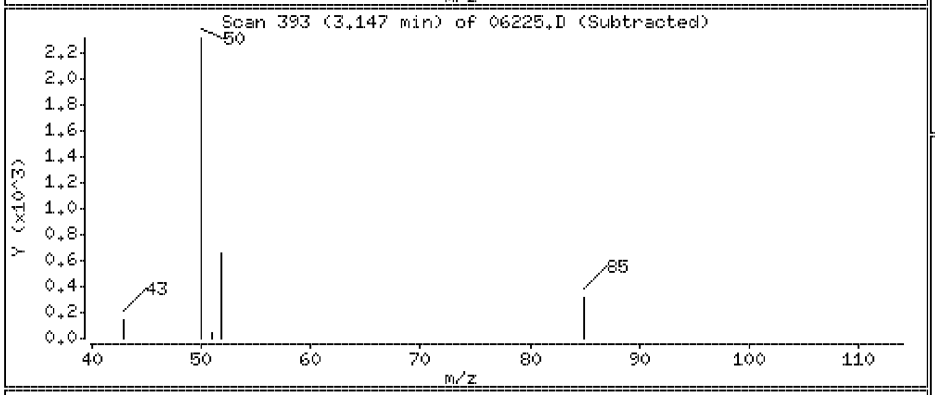
Column diameter: 0.32

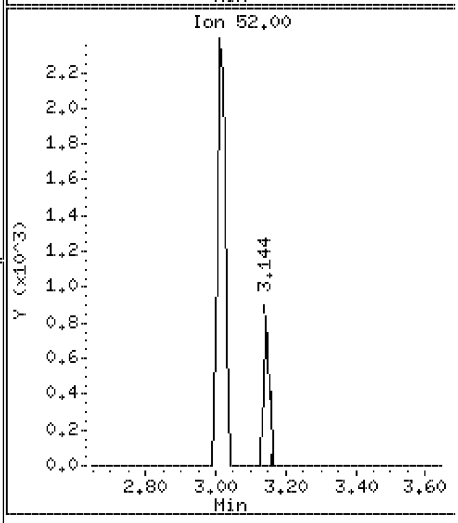
6 Chloromethane

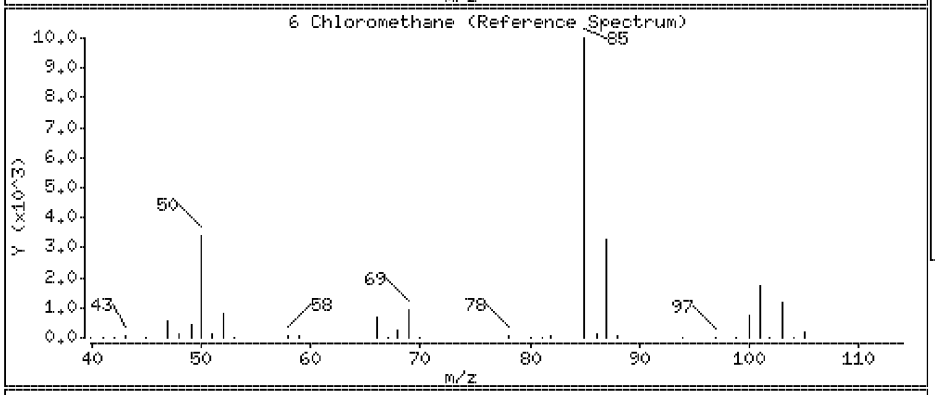
Concentration: 0.357 ppbv

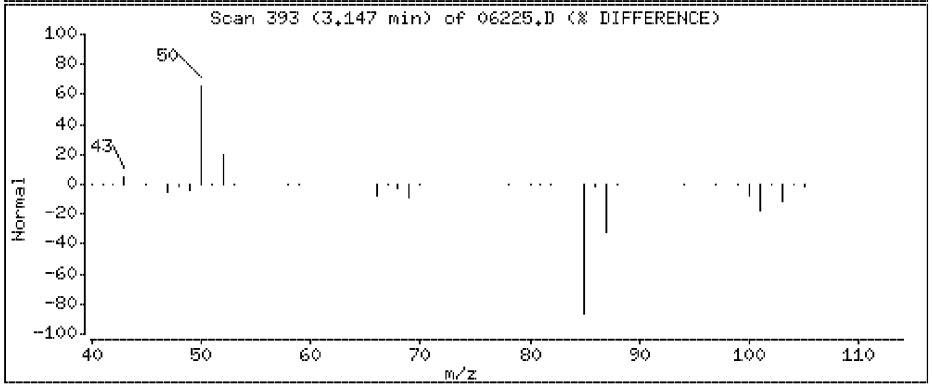












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

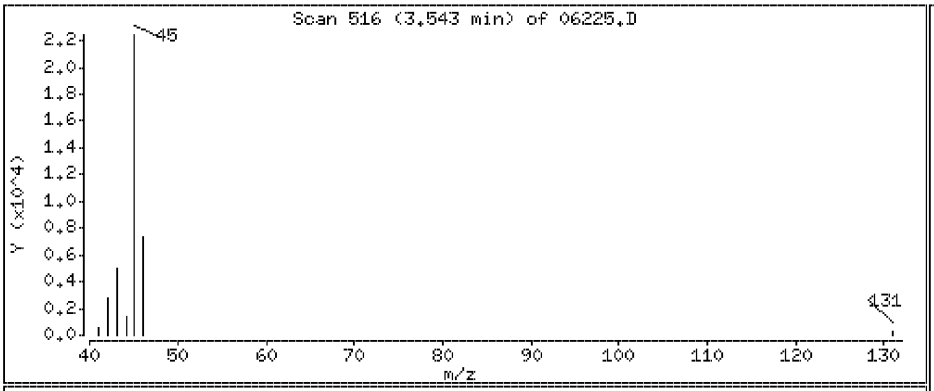
Operator: MJL

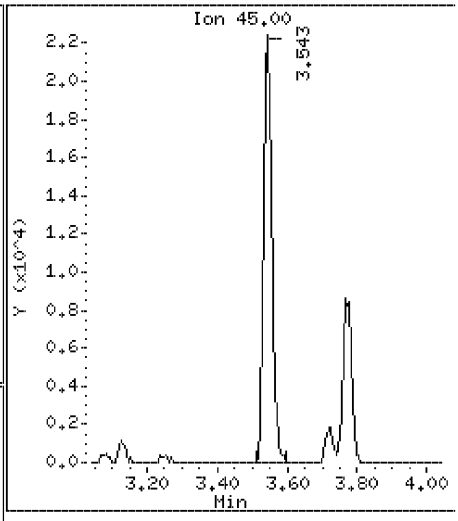
Column phase: J&W DB-5

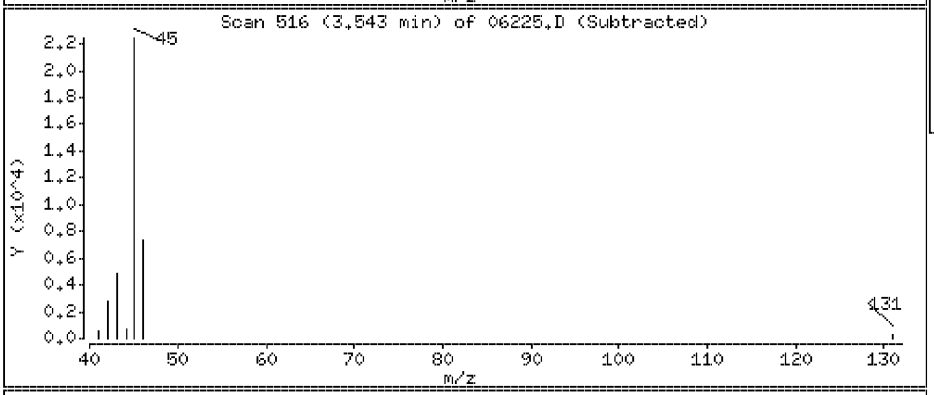
Column diameter: 0.32

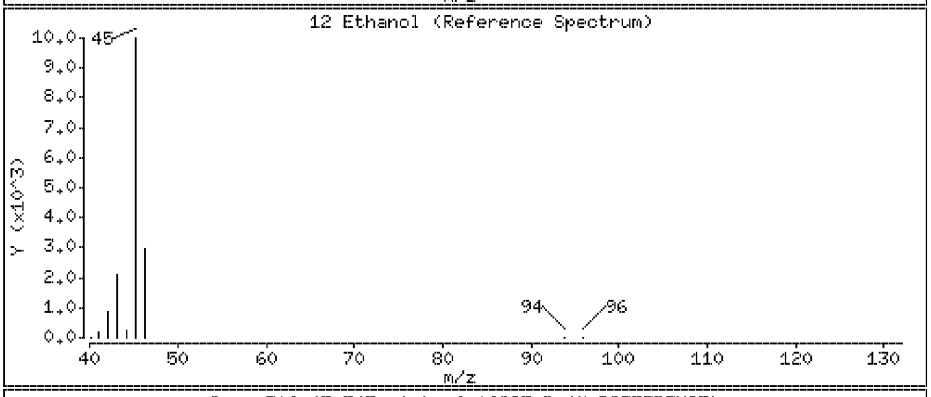
12 Ethanol

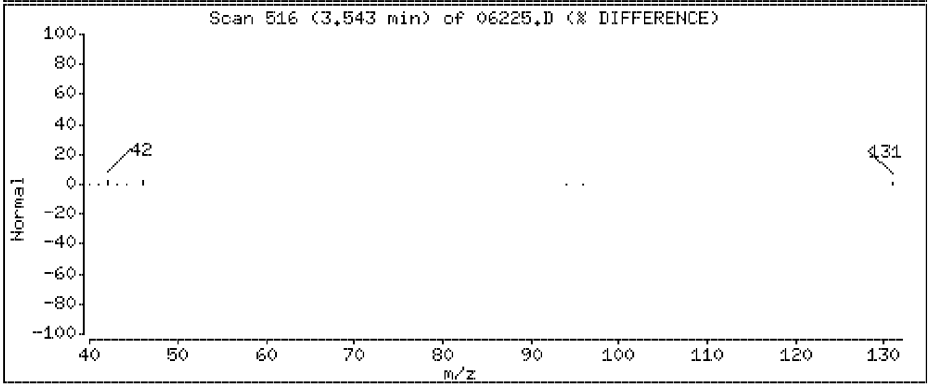
Concentration: 13.6 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

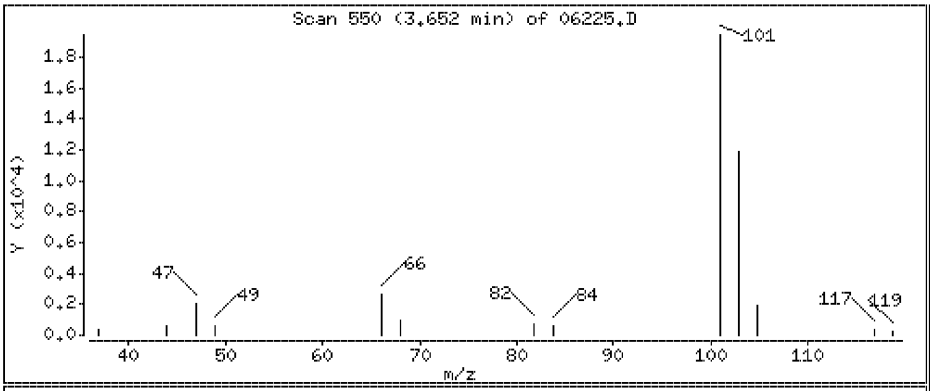
Operator: MJL

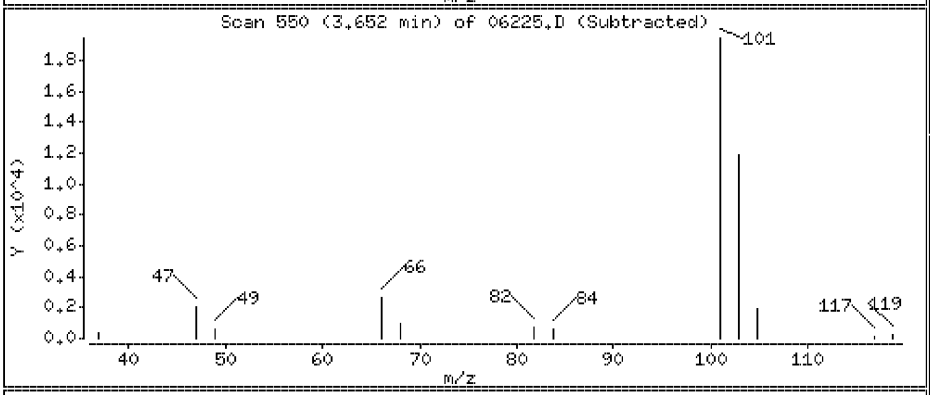
Column phase: J&W DB-5

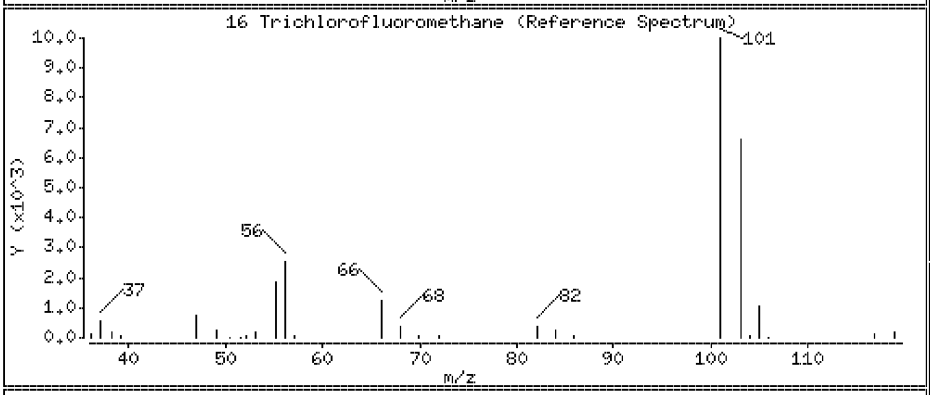
Column diameter: 0.32

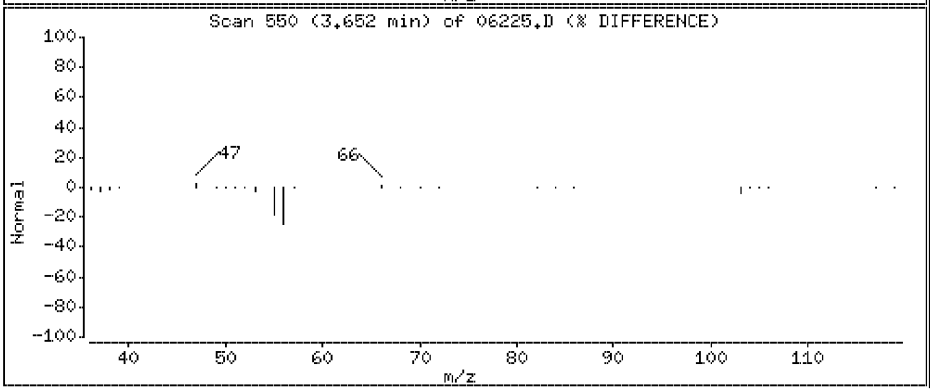
16 Trichlorofluoromethane

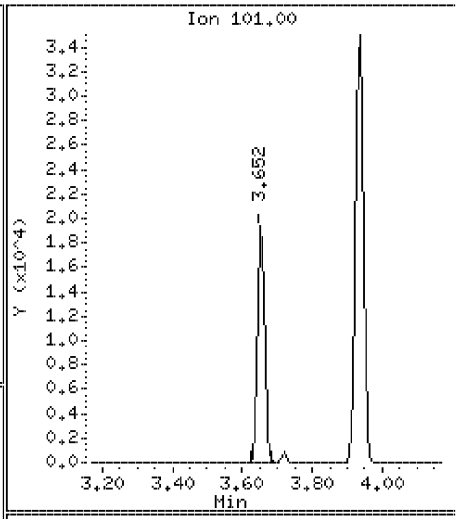
Concentration: 1.36 ppbv

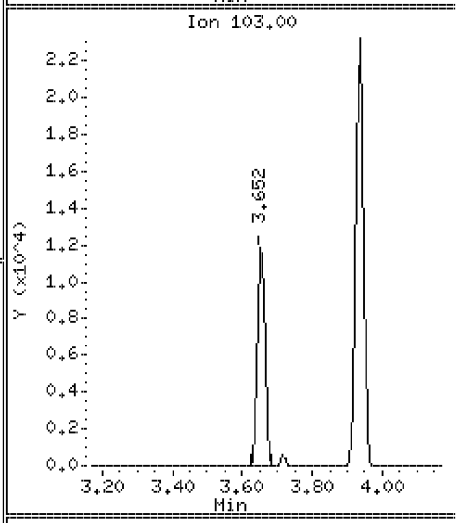


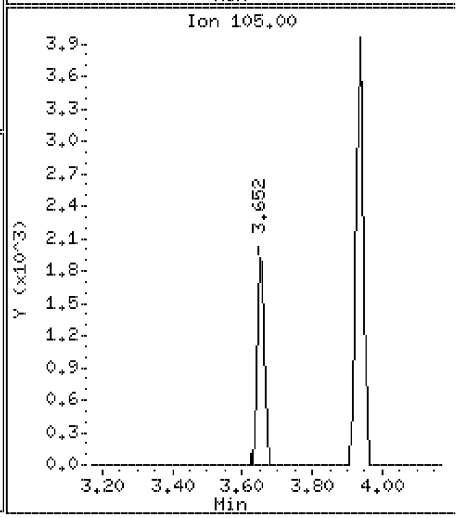












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

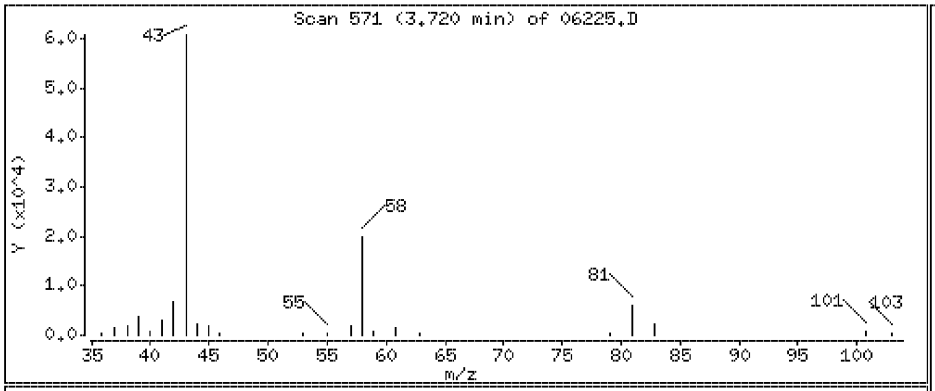
Operator: MJL

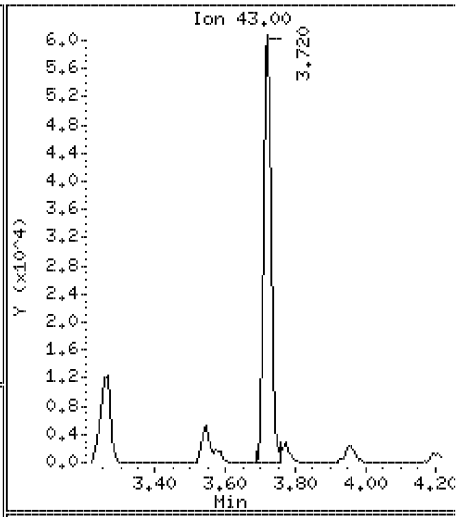
Column phase: J&W DB-5

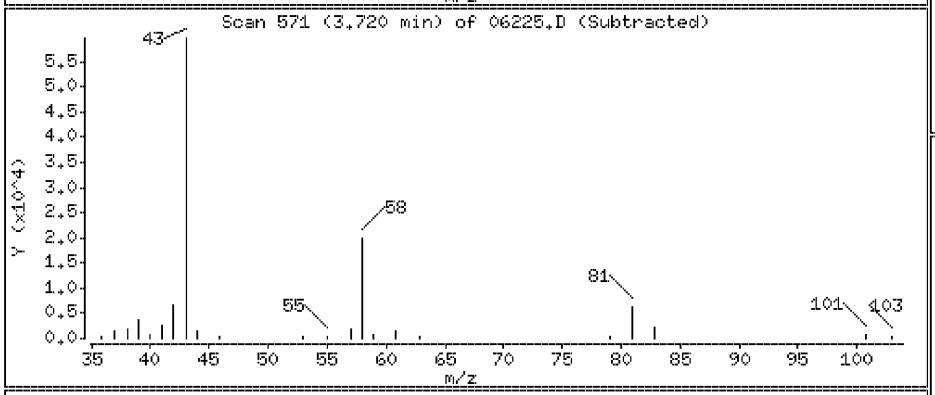
Column diameter: 0.32

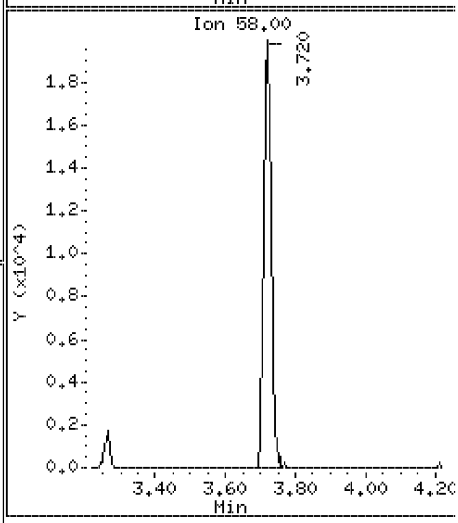
18 Acetone

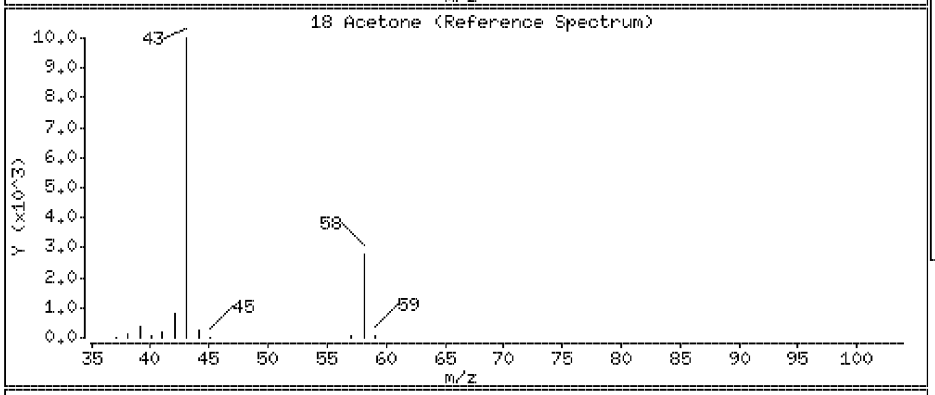
Concentration: 7.73 ppbv

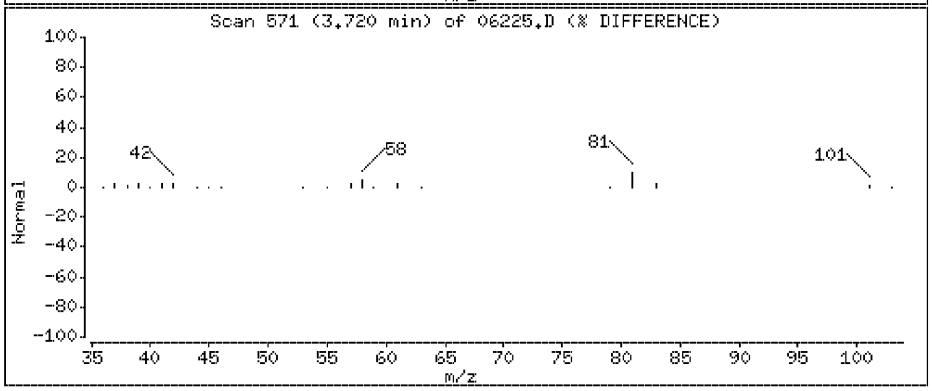












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

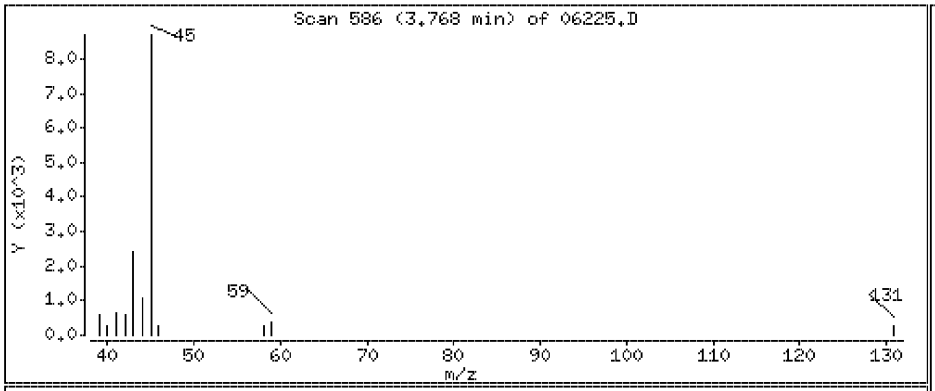
Operator: MJL

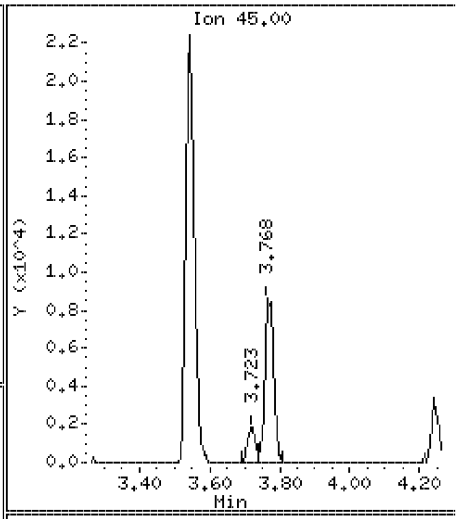
Column phase: J&W DB-5

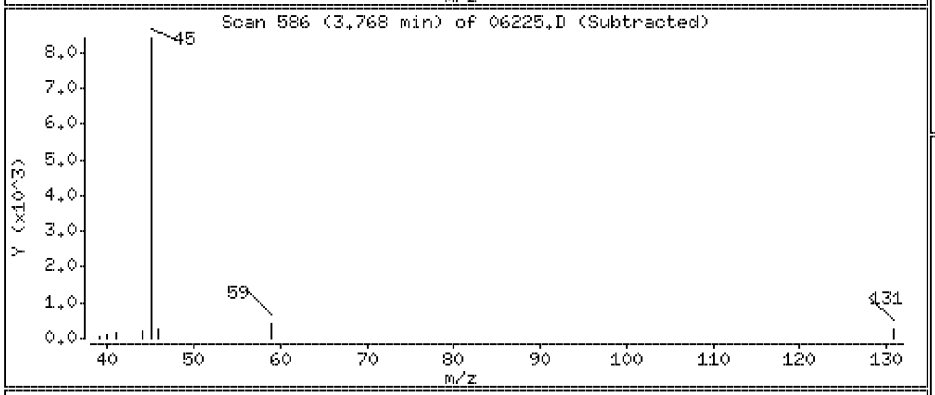
Column diameter: 0.32

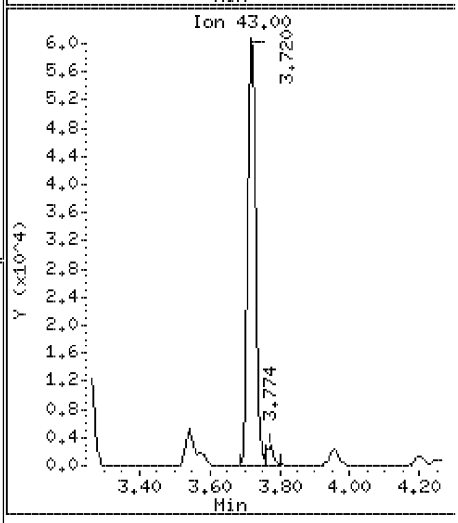
19 Isopropyl Alcohol

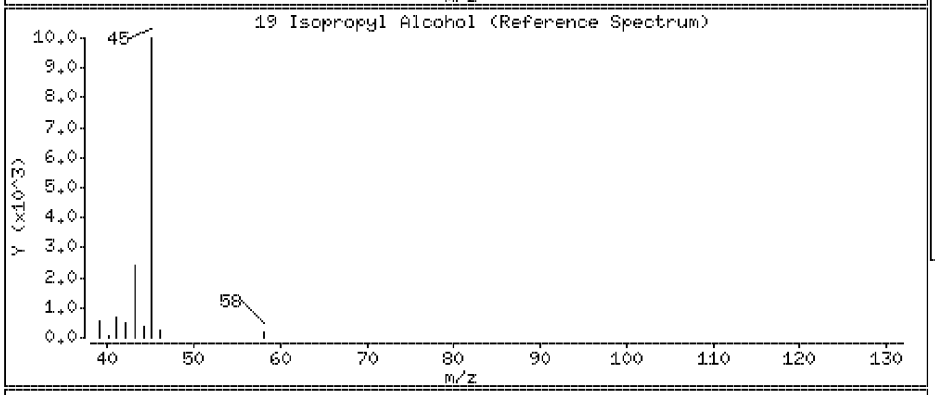
Concentration: 1.27 ppbv

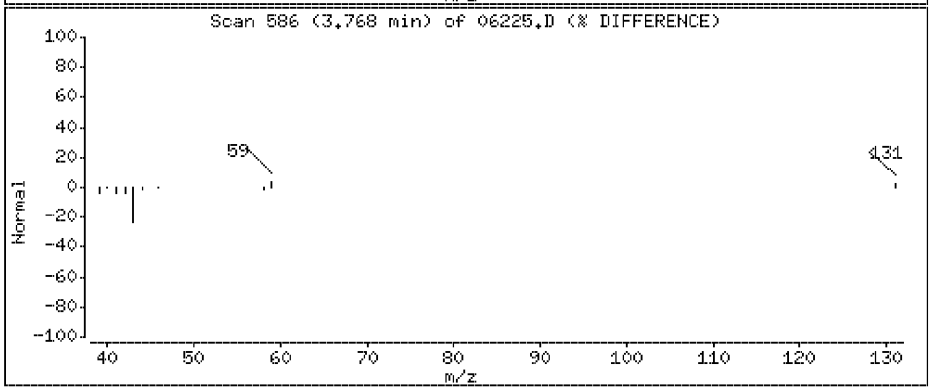












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

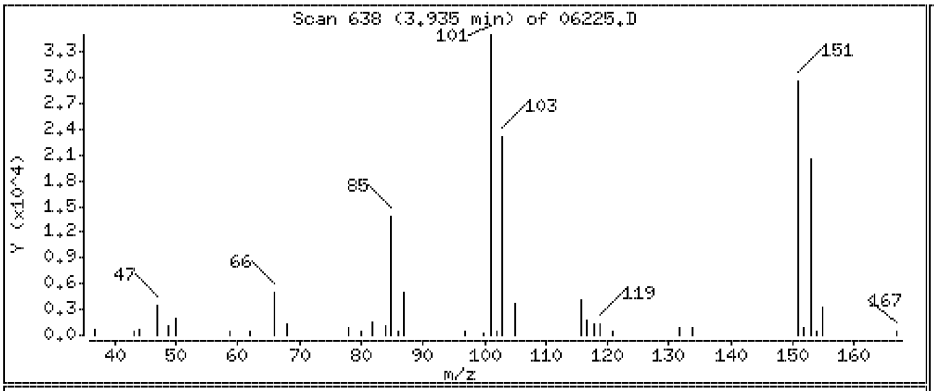
Operator: MJL

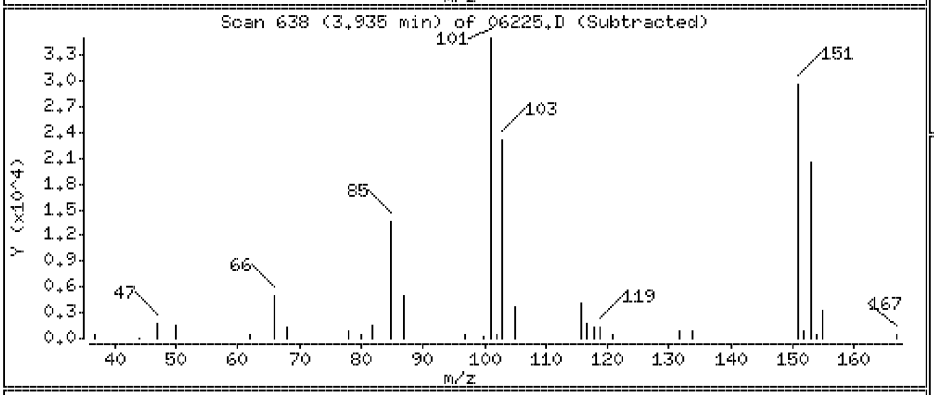
Column phase: J&W DB-5

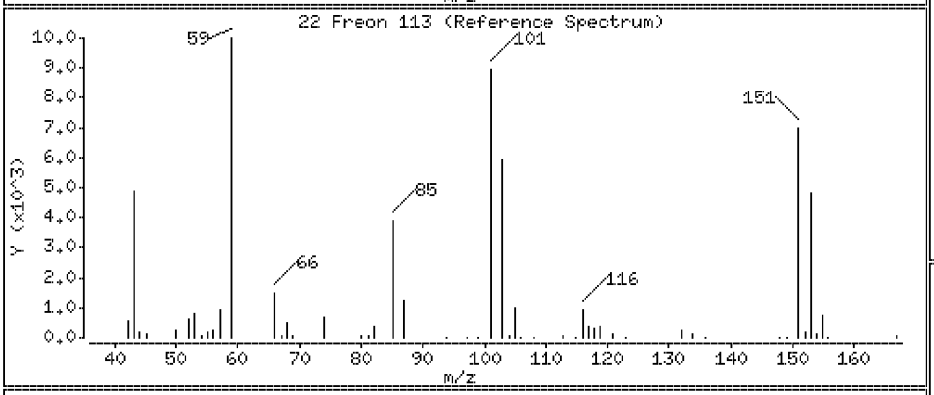
Column diameter: 0.32

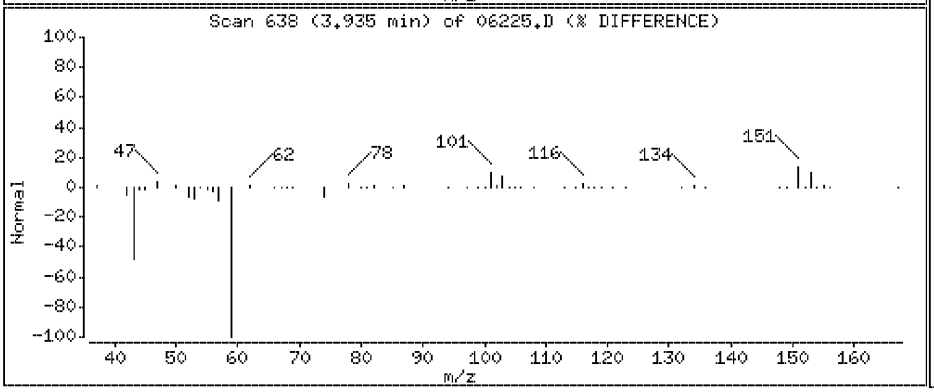
22 Freon 113

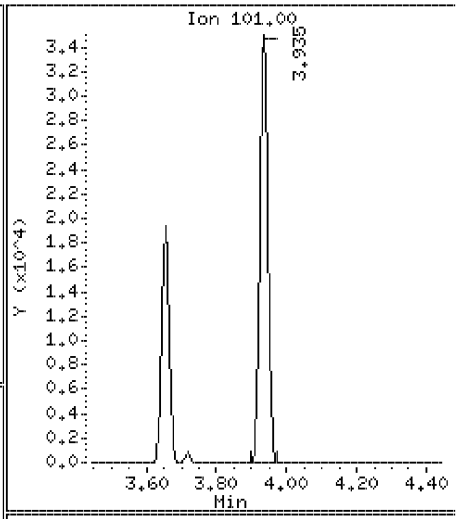
Concentration: 3.60 ppbv

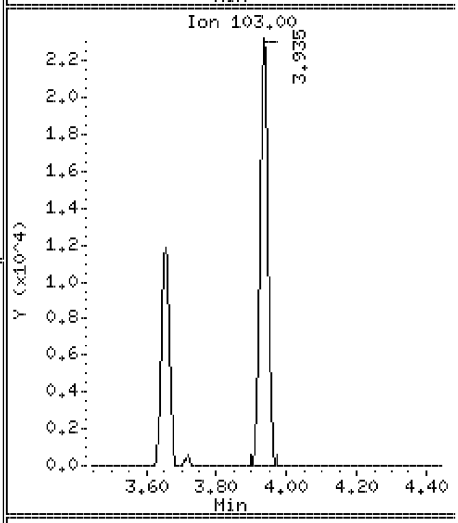


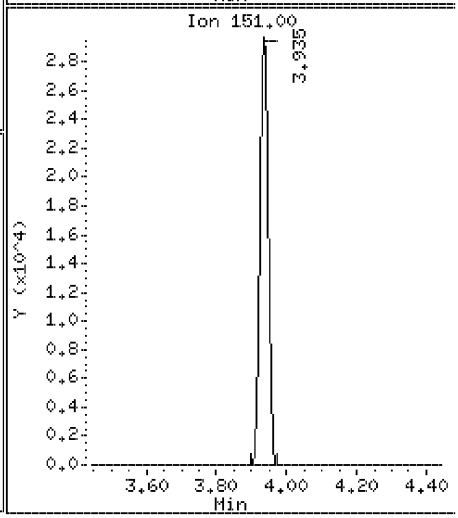












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

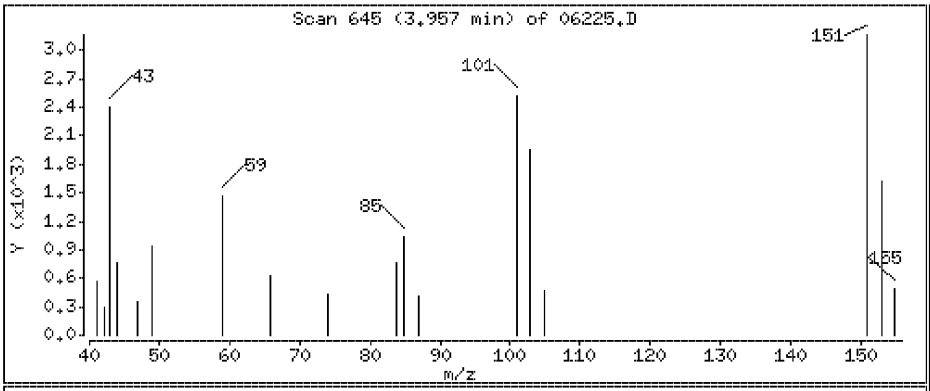
Operator: MJL

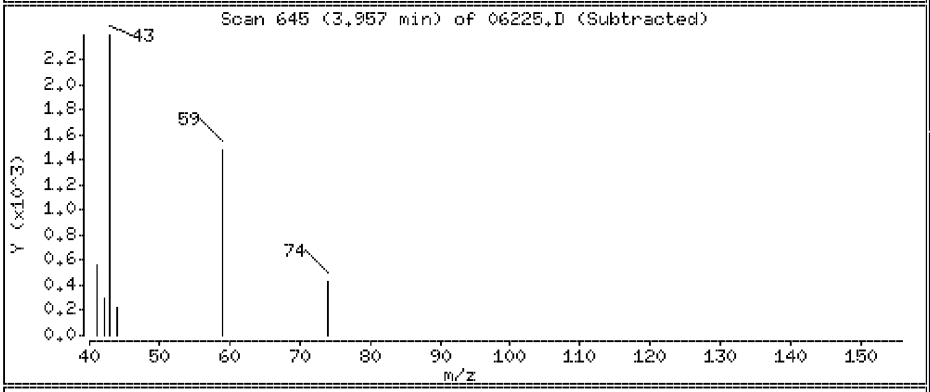
Column phase: J&W DB-5

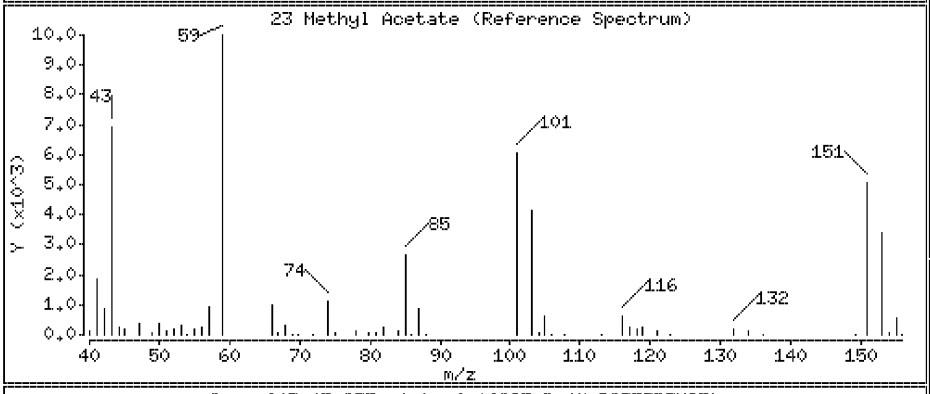
Column diameter: 0.32

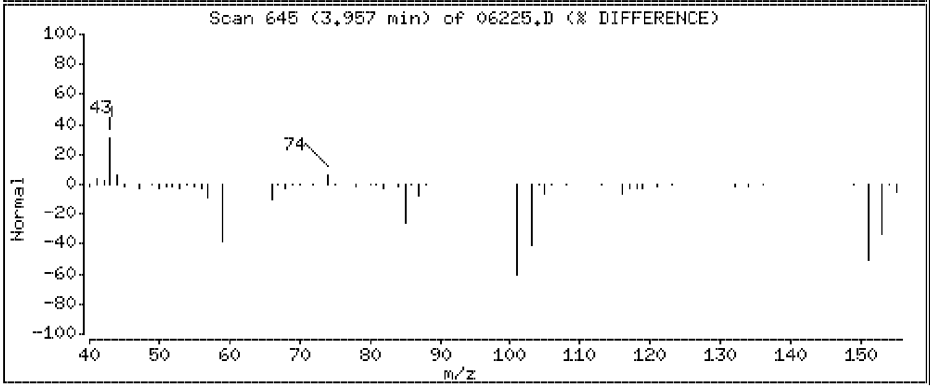
23 Methyl Acetate

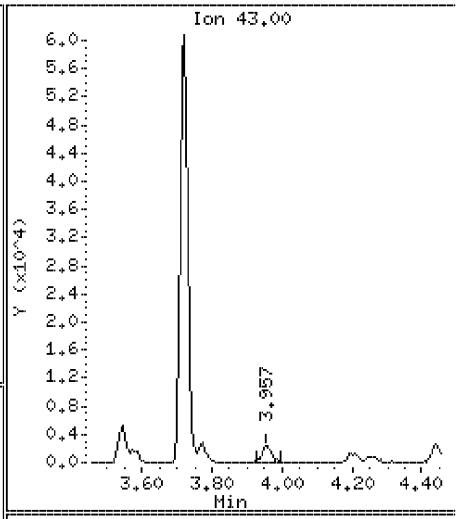
Concentration: 0.251 ppbv

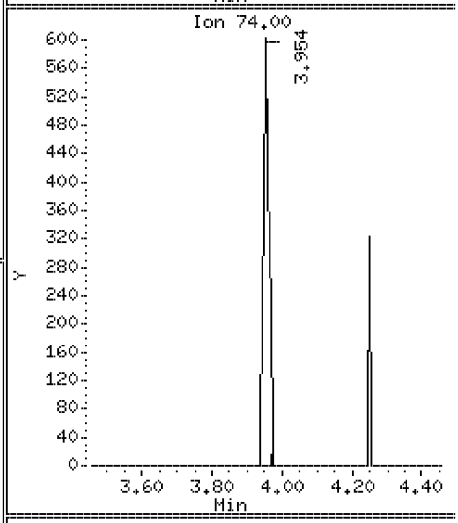


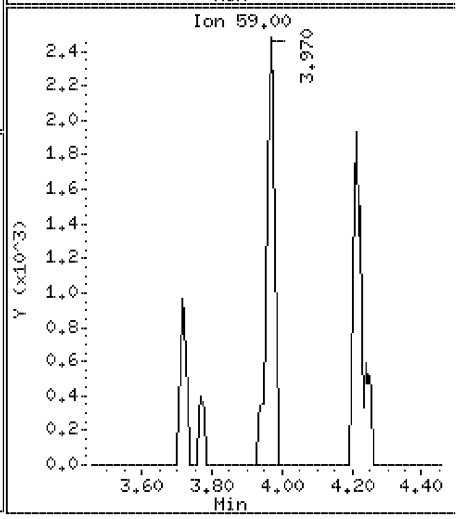












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

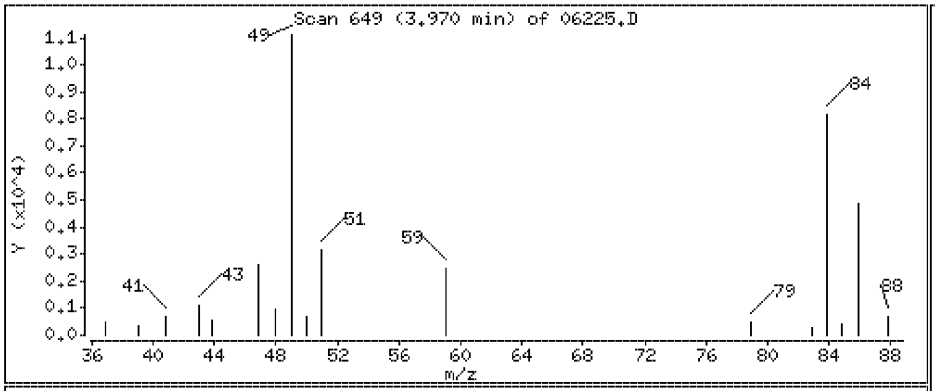
Operator: MJL

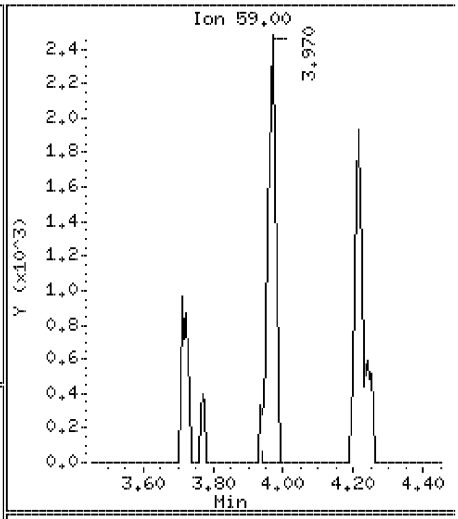
Column phase: J&W DB-5

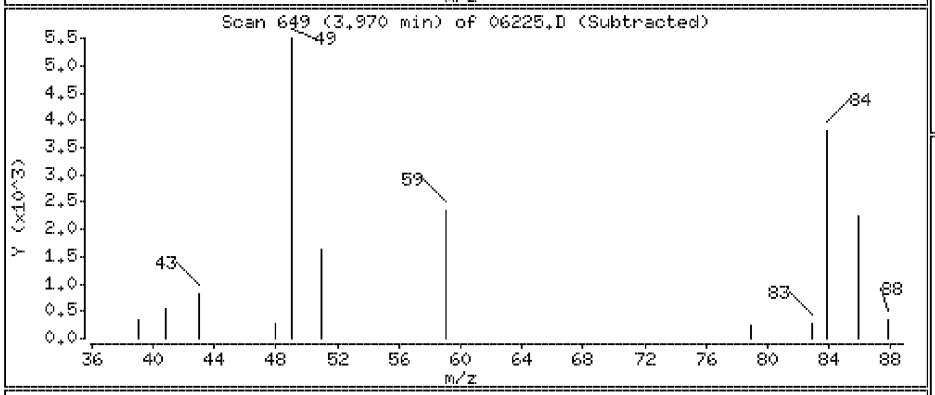
Column diameter: 0.32

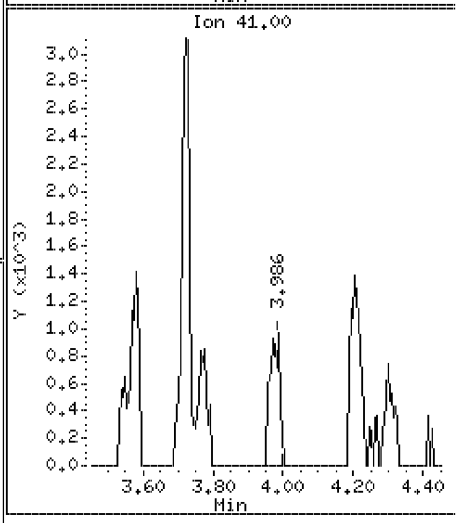
24 Tert Butyl Alcohol (TBA)

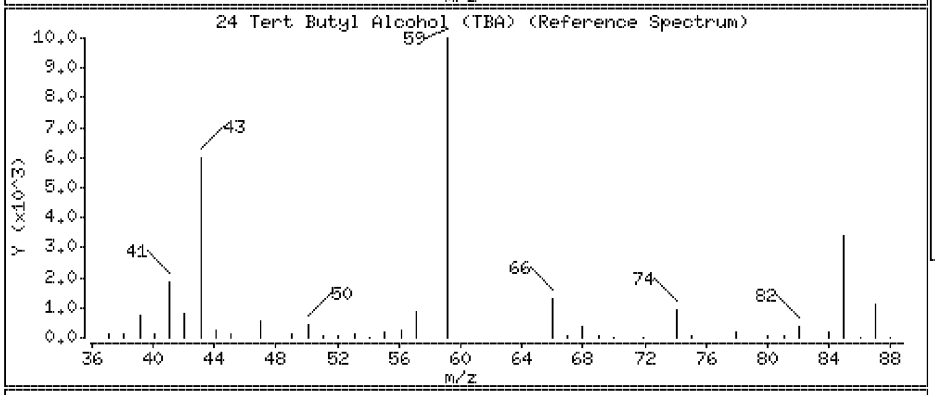
Concentration: 0.244 ppbv

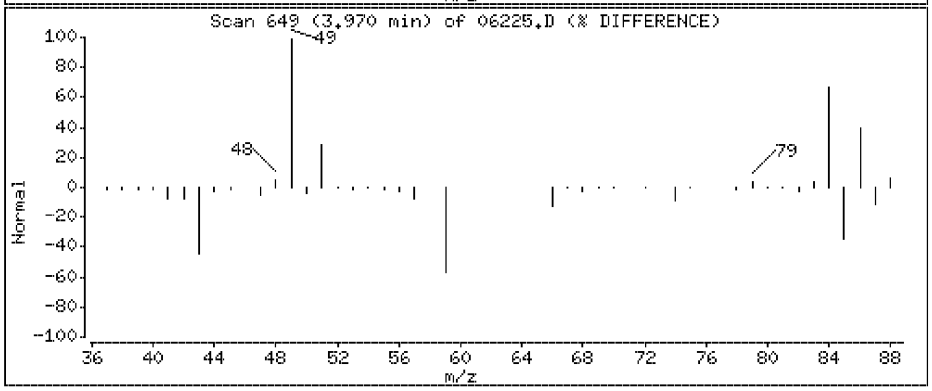












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

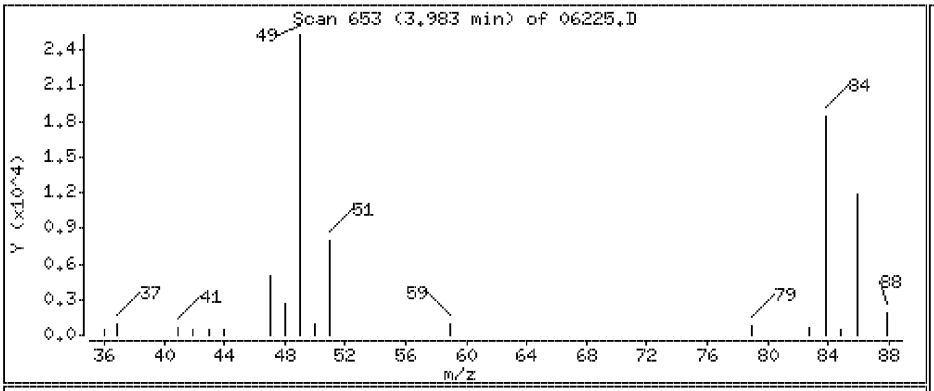
Operator: MJL

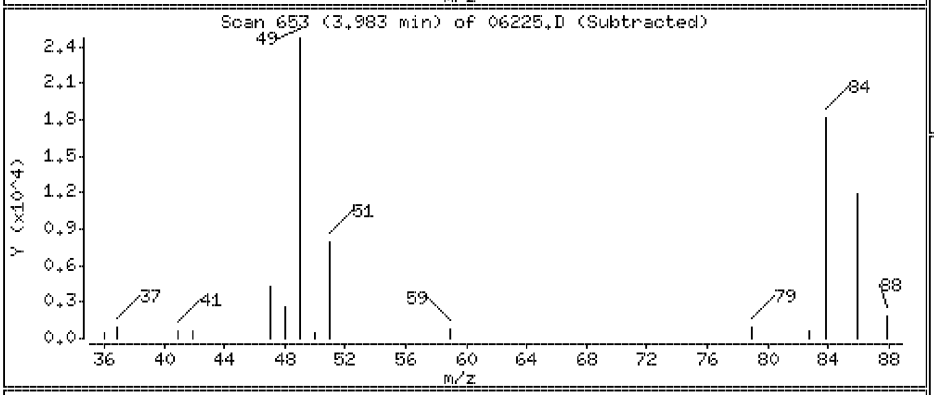
Column phase: J&W DB-5

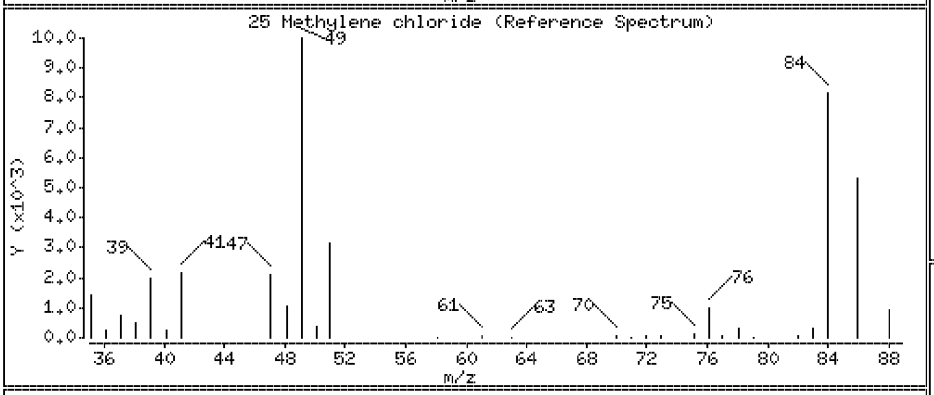
Column diameter: 0.32

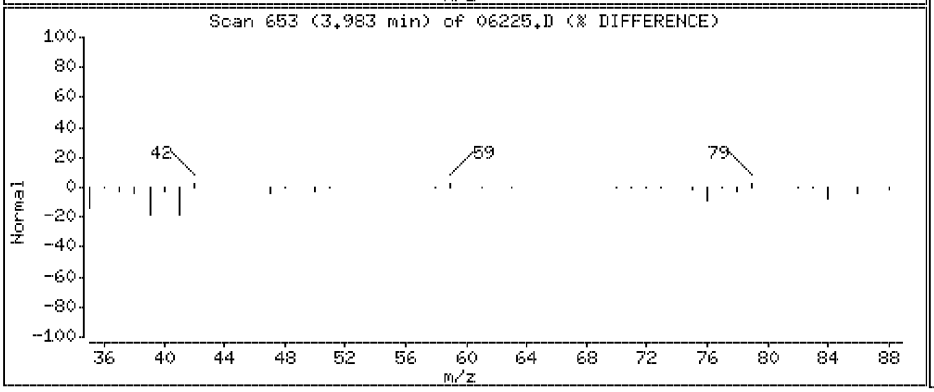
25 Methylene chloride

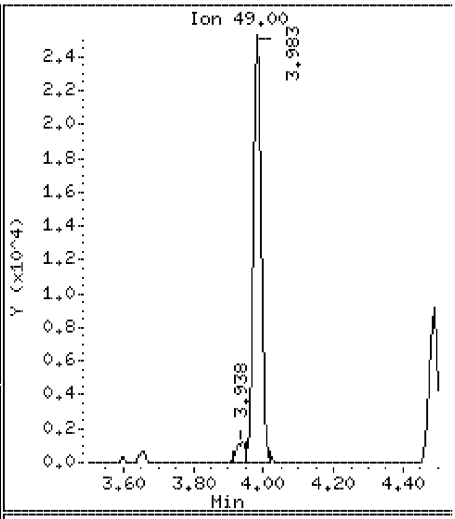
Concentration: 4.79 ppbv

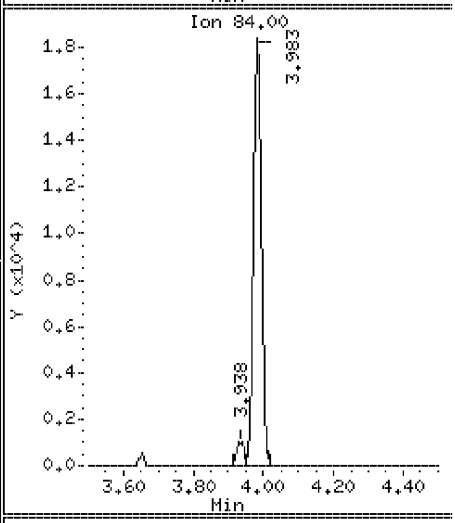


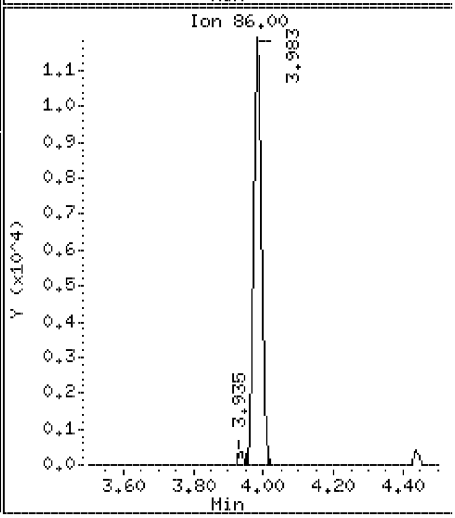












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

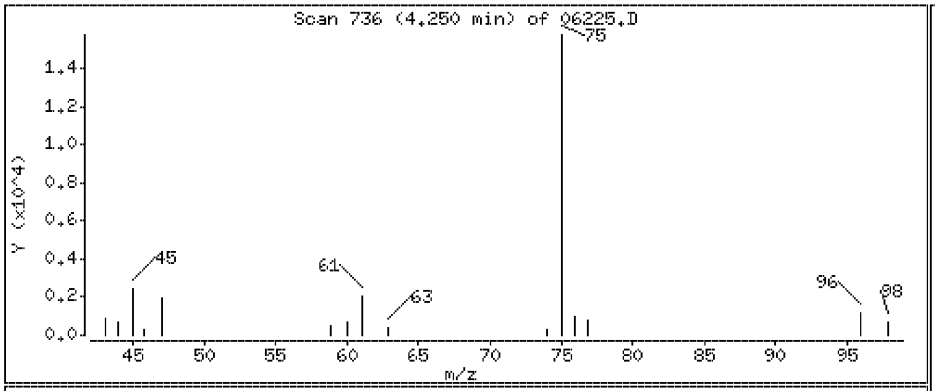
Operator: MJL

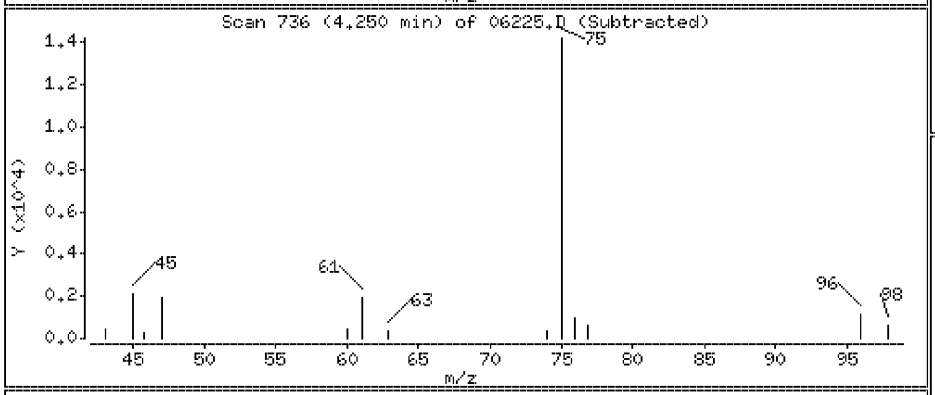
Column phase: J&W DB-5

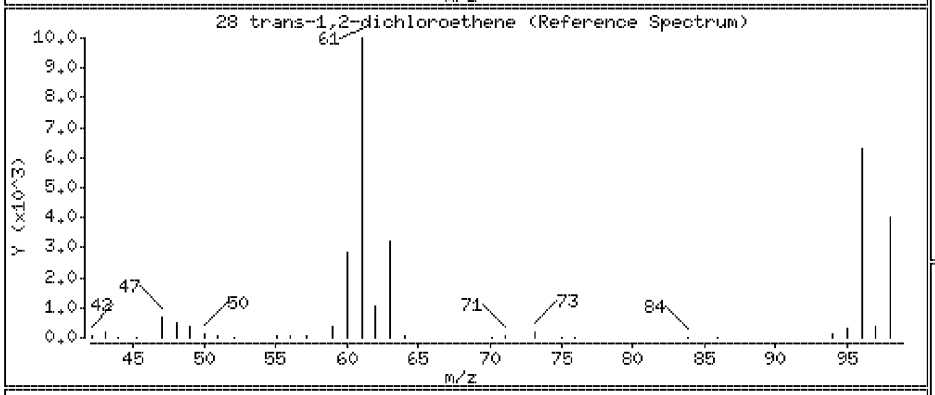
Column diameter: 0.32

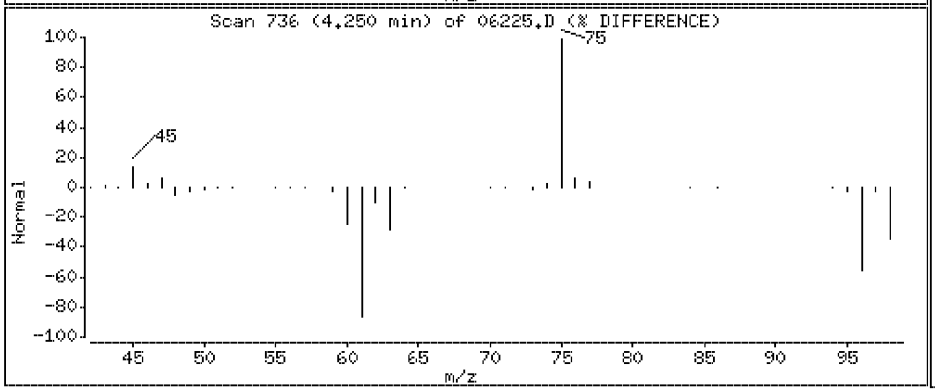
28 trans-1,2-dichloroethene

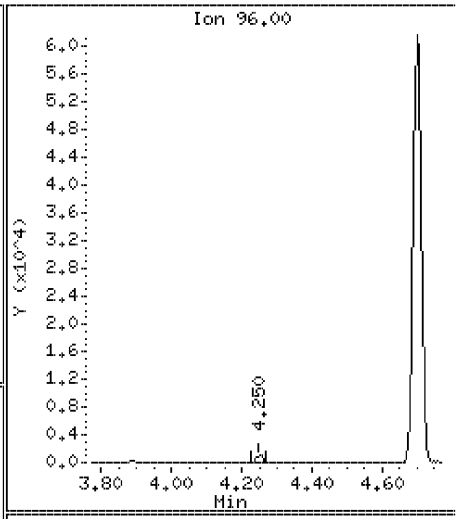
Concentration: 0.216 ppbv

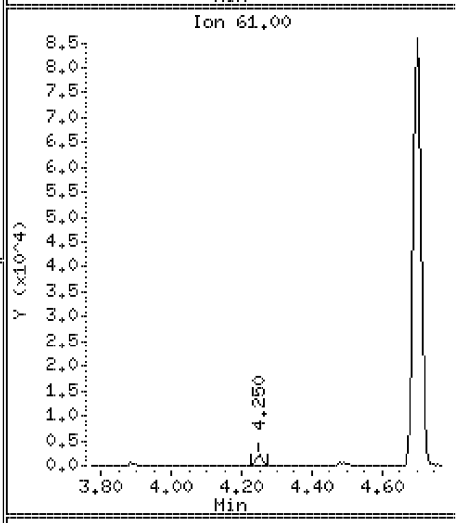


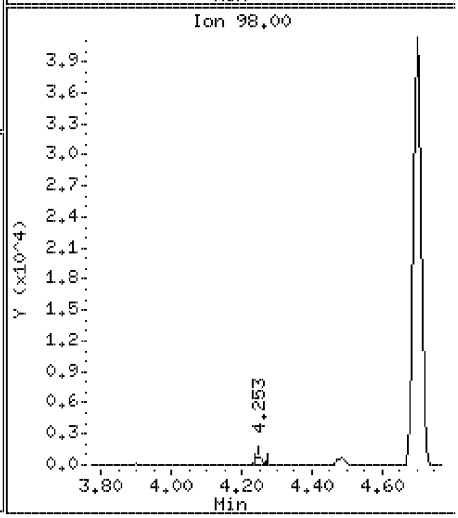












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

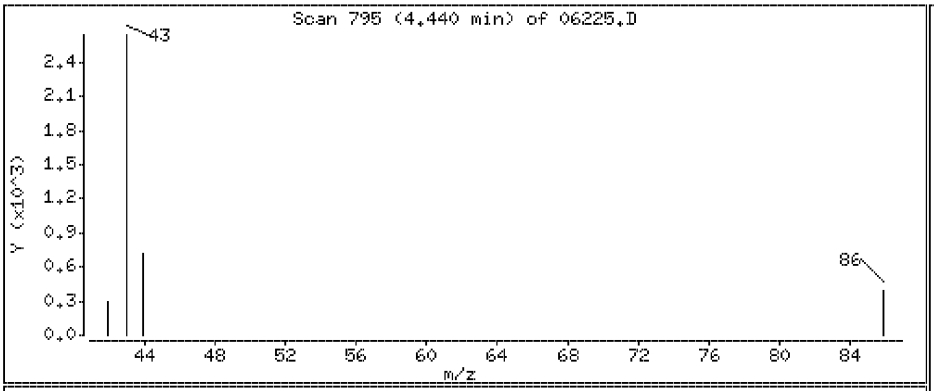
Operator: MJL

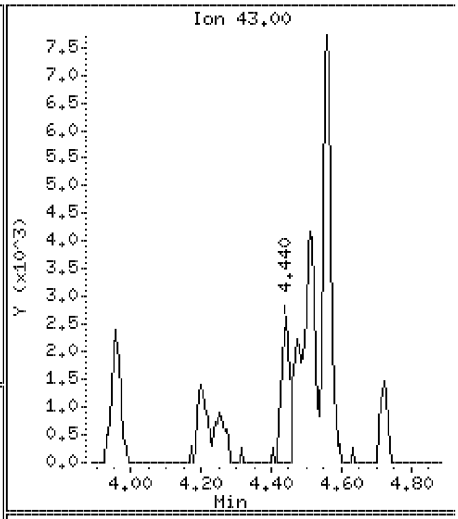
Column phase: J&W DB-5

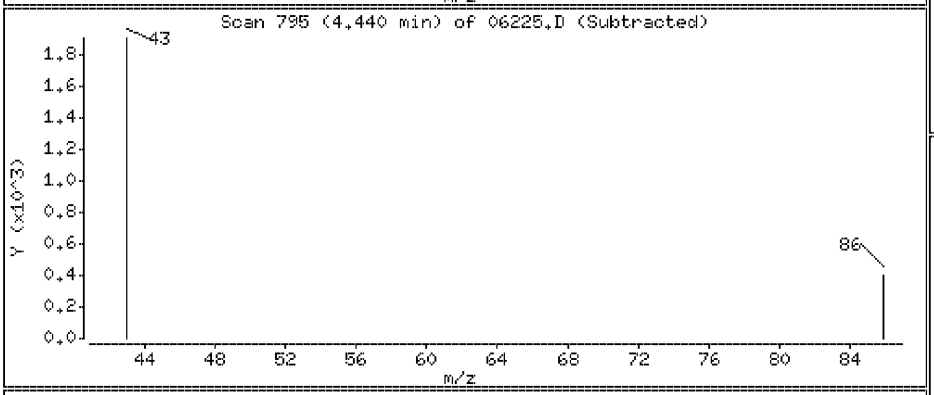
Column diameter: 0.32

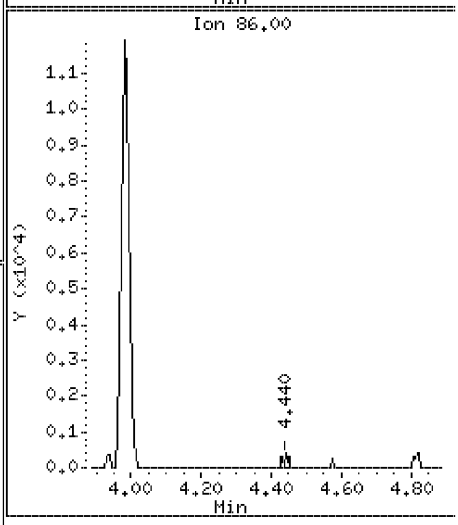
30 Vinyl Acetate

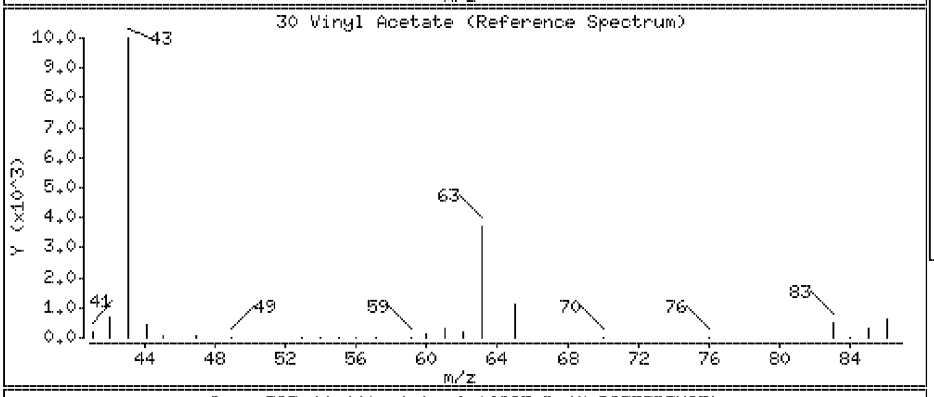
Concentration: 0.523 ppbv

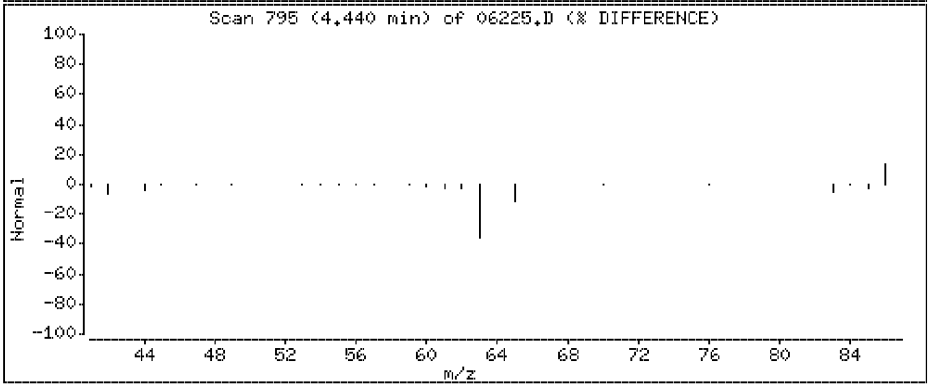












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

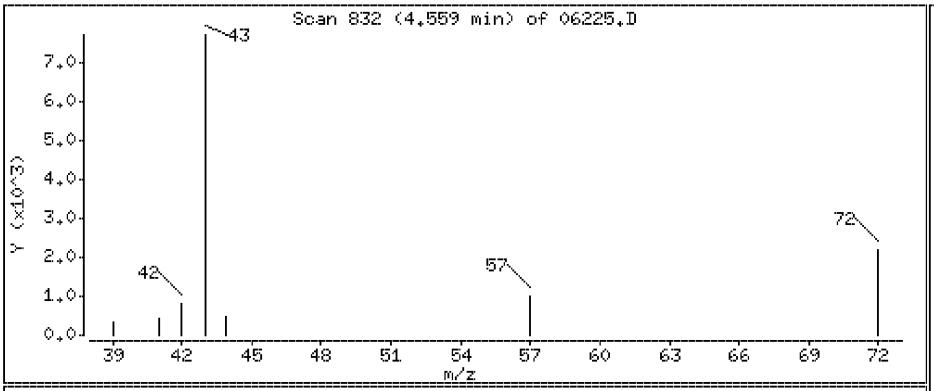
Operator: MJL

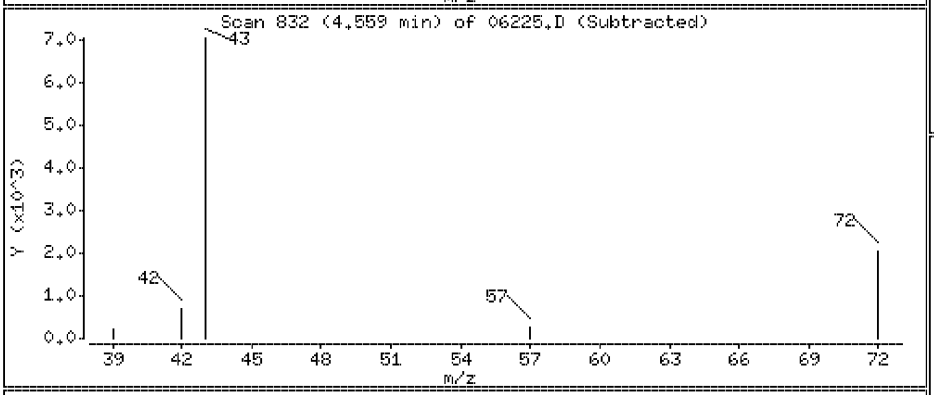
Column phase: J&W DB-5

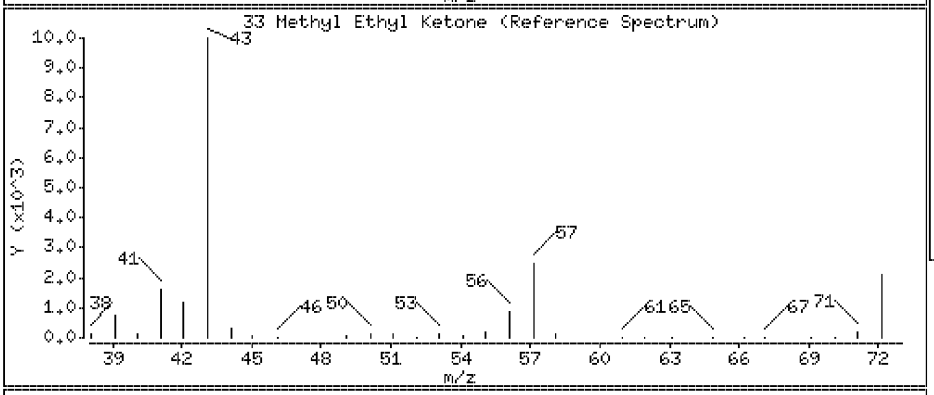
Column diameter: 0.32

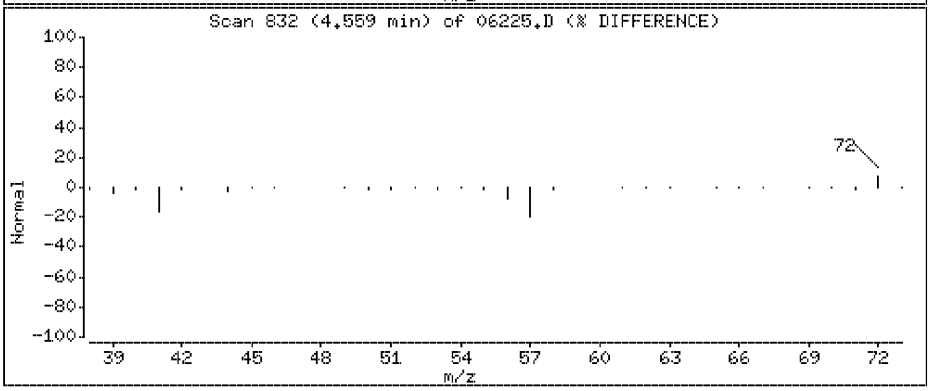
33 Methyl Ethyl Ketone

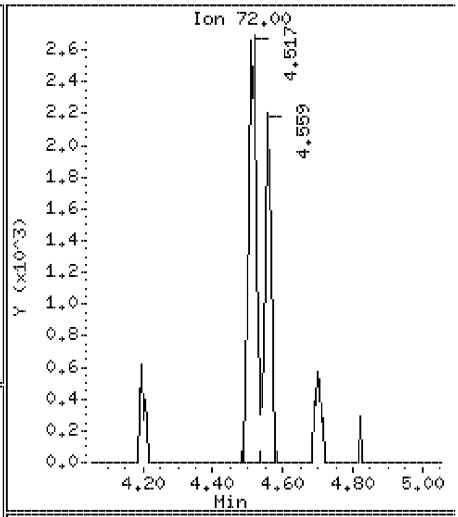
Concentration: 0.851 ppbv

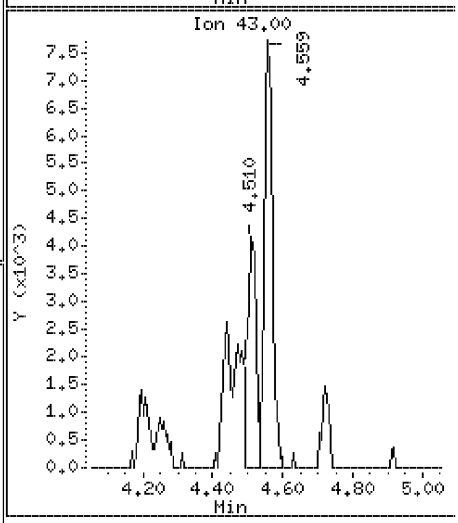












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

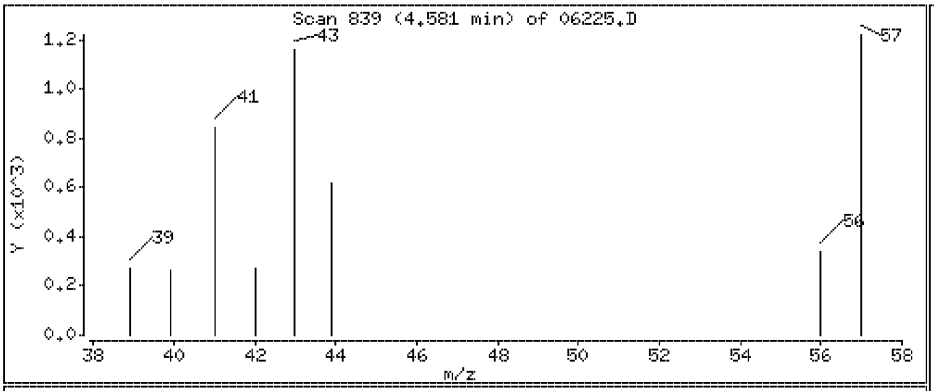
Operator: MJL

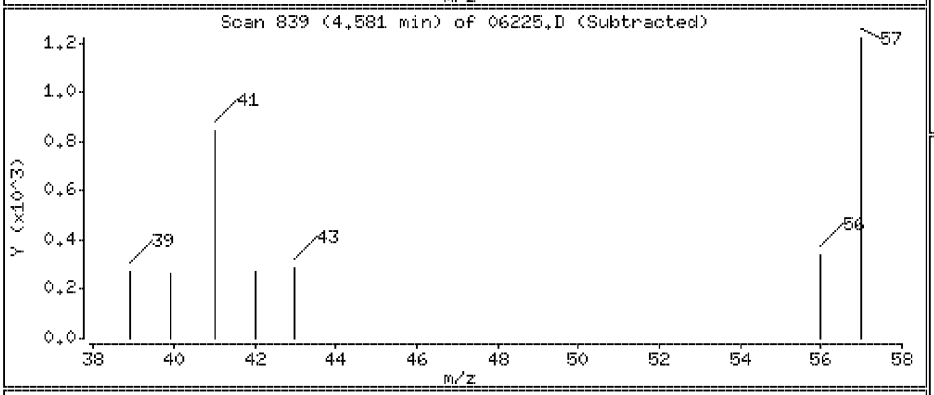
Column phase: J&W DB-5

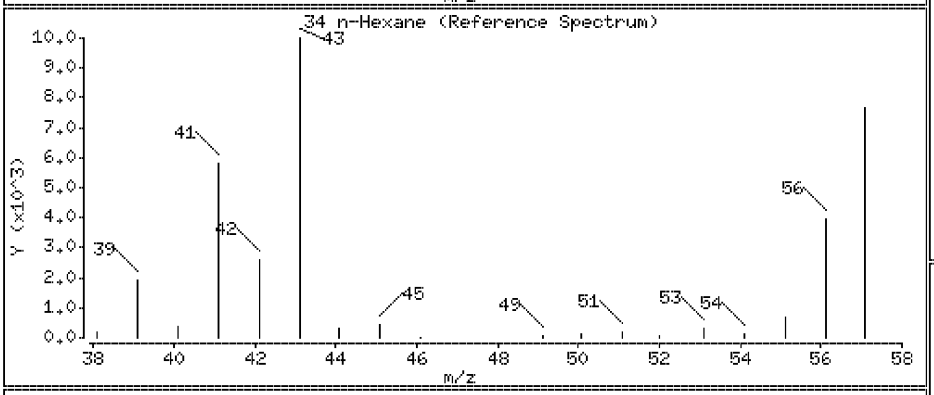
Column diameter: 0.32

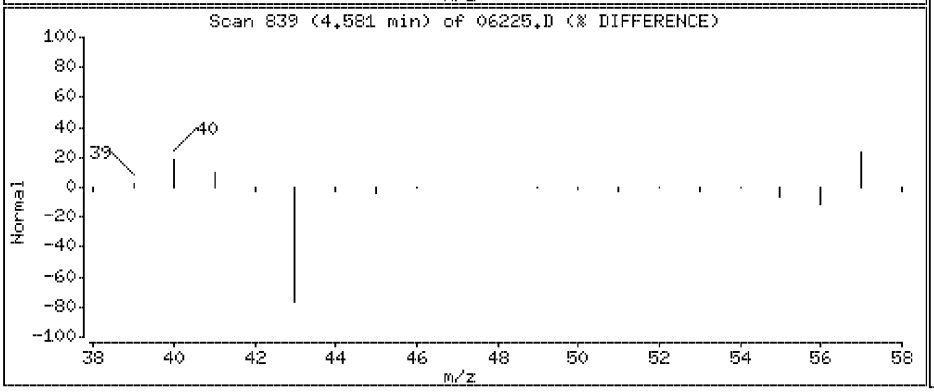
34 n-Hexane

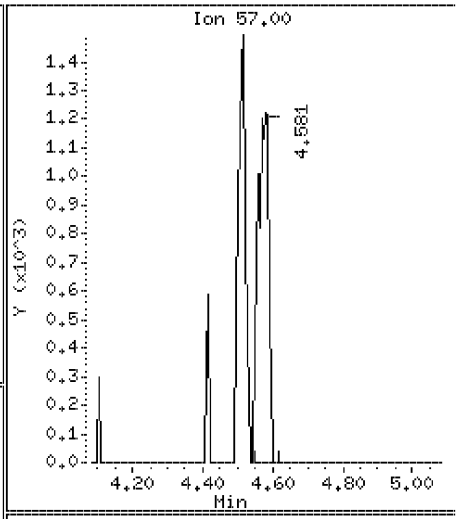
Concentration: 0.223 ppbv

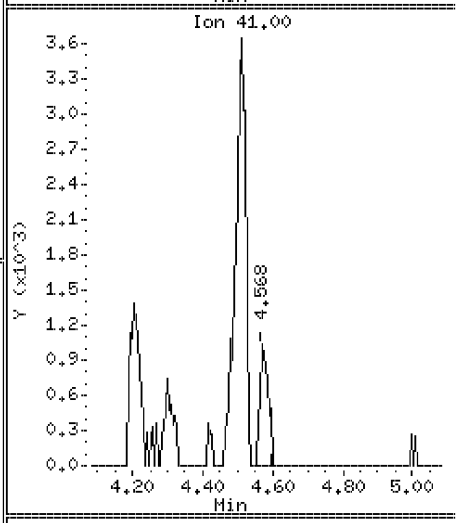


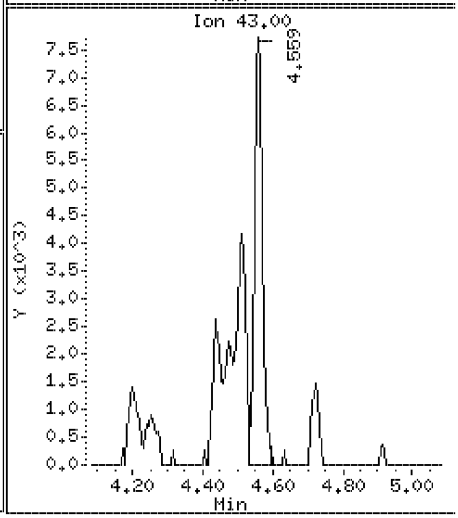












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

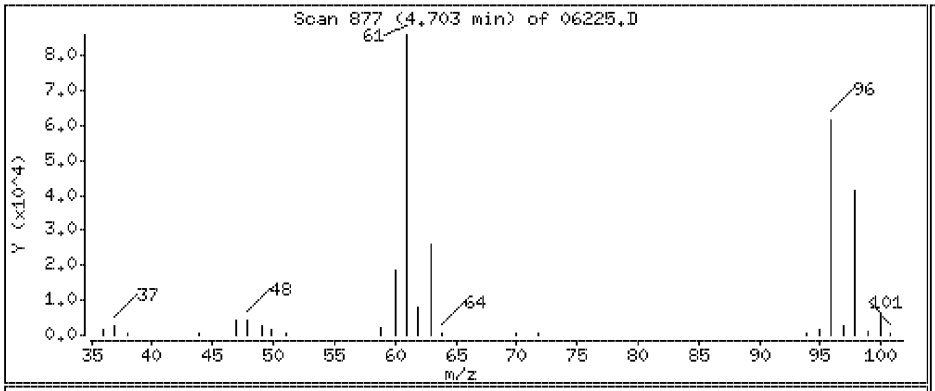
Operator: MJL

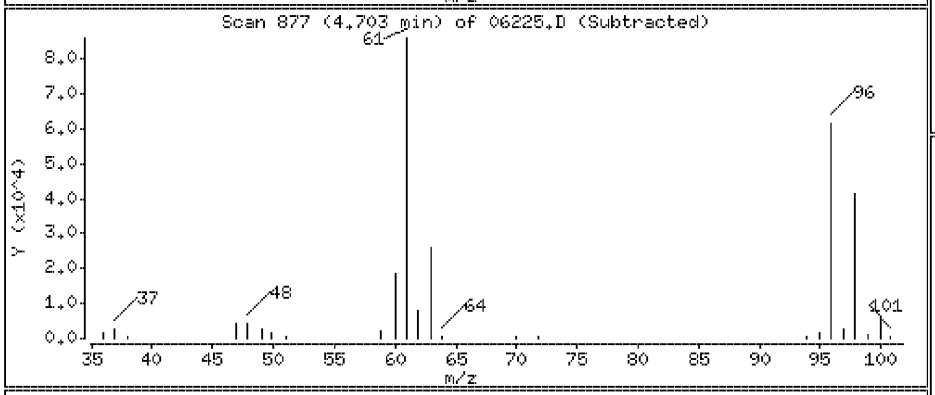
Column phase: J&W DB-5

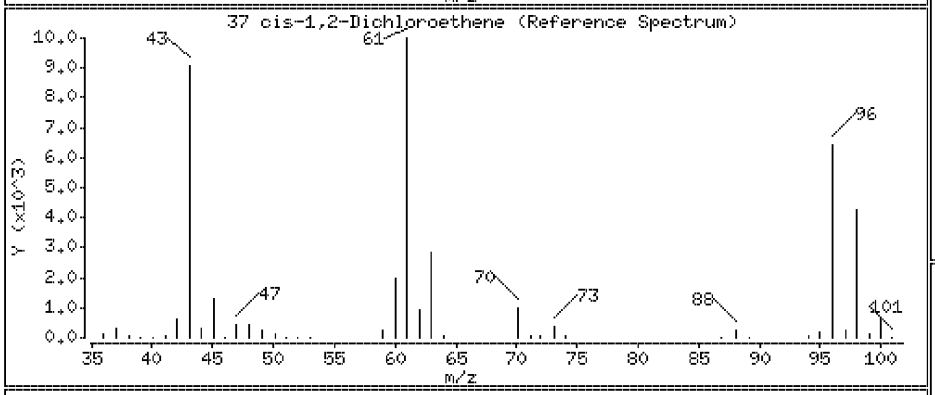
Column diameter: 0.32

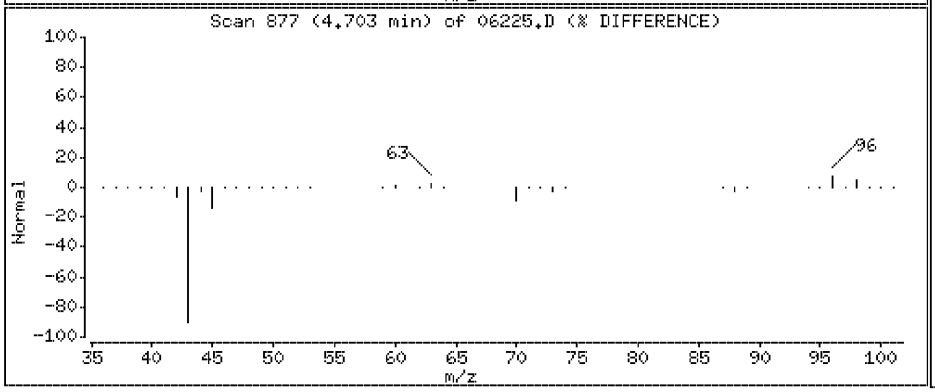
37 cis-1,2-Dichloroethene

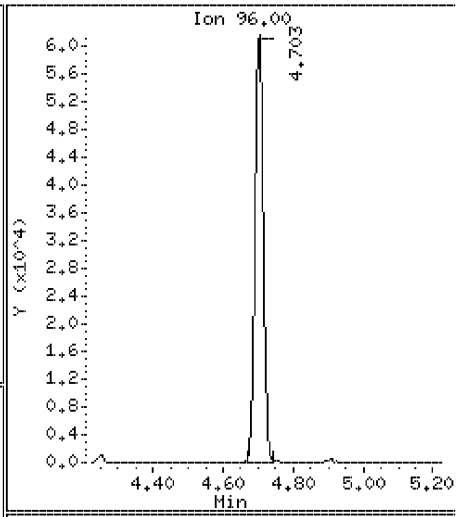
Concentration: 13.6 ppbv

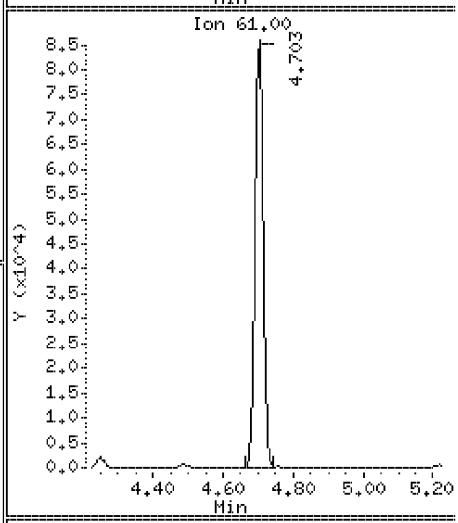


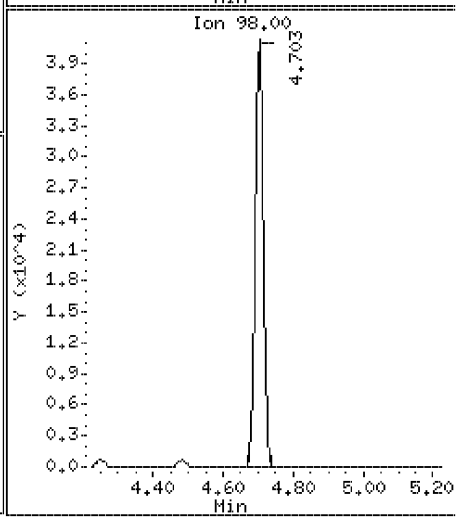












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

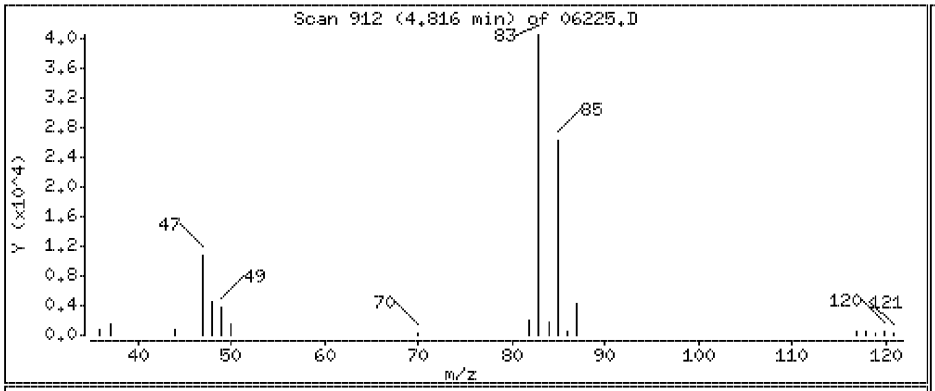
Operator: MJL

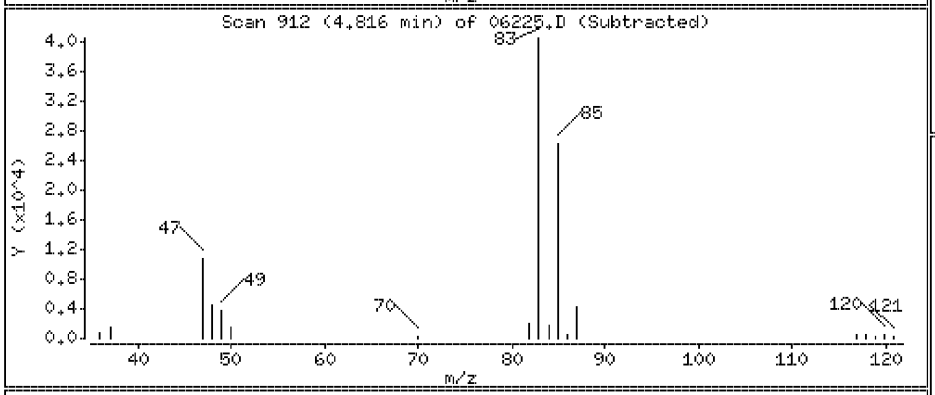
Column phase: J&W DB-5

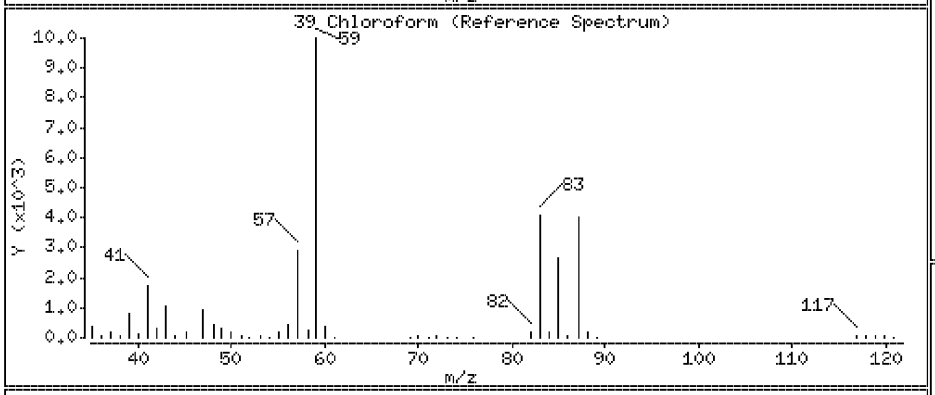
Column diameter: 0.32

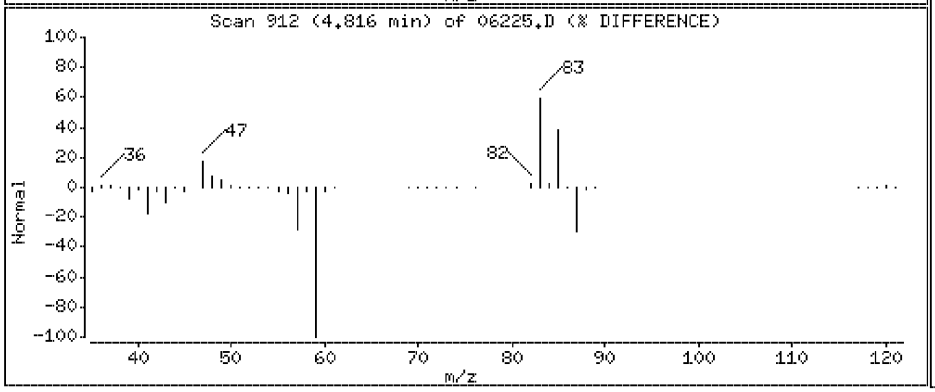
39 Chloroform

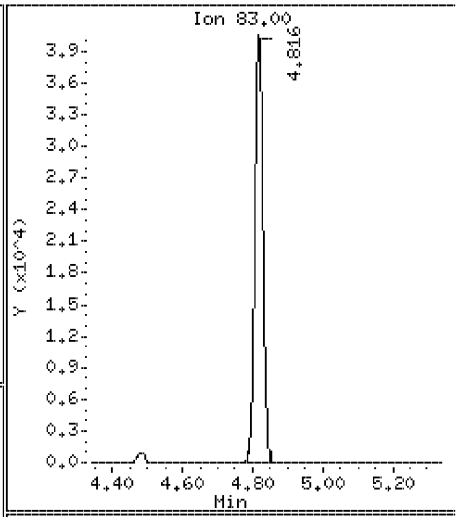
Concentration: 4.18 ppbv

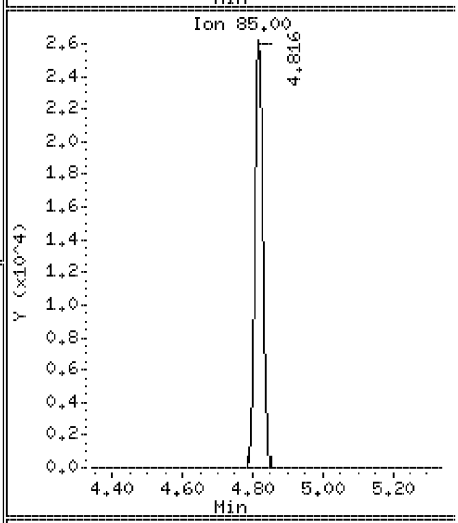


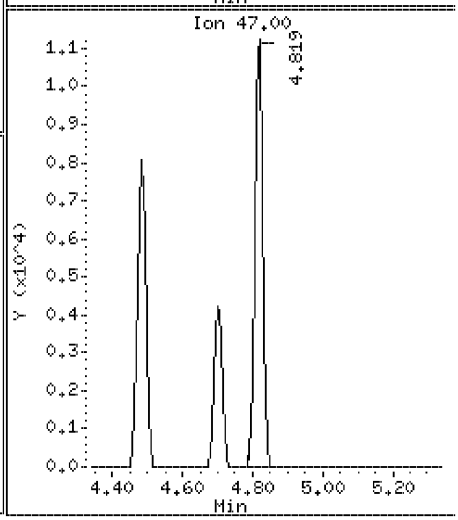












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

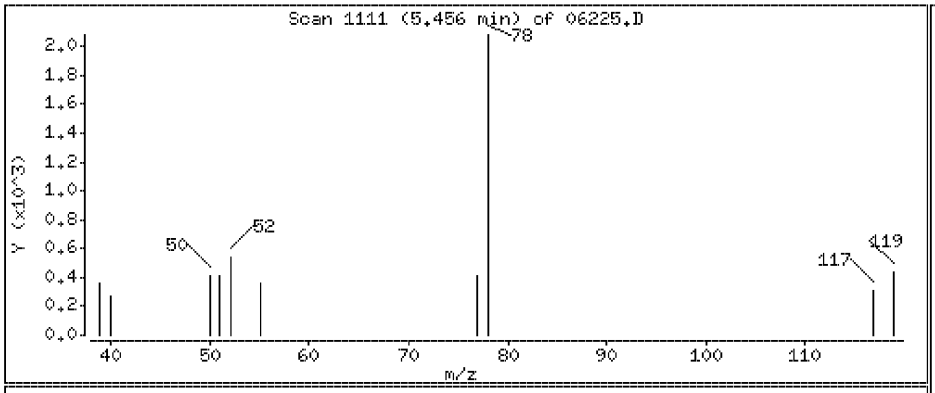
Operator: MJL

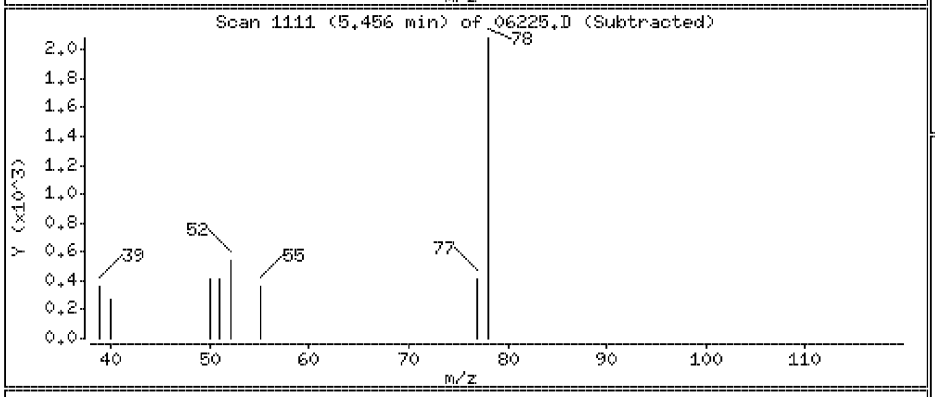
Column phase: J&W DB-5

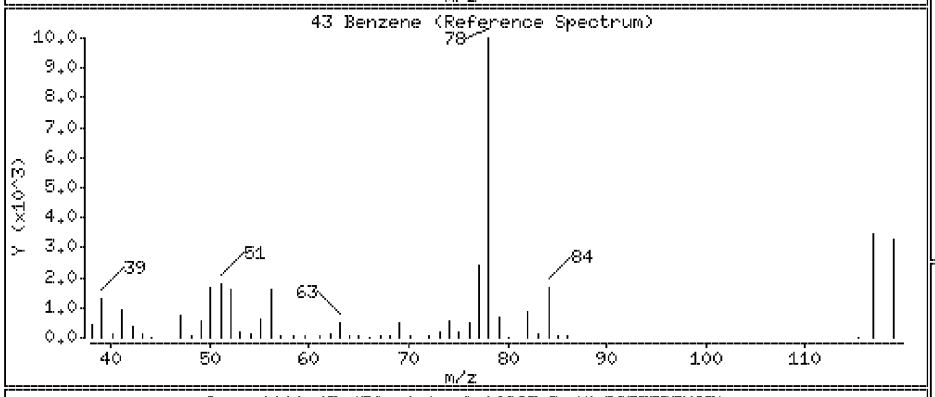
Column diameter: 0.32

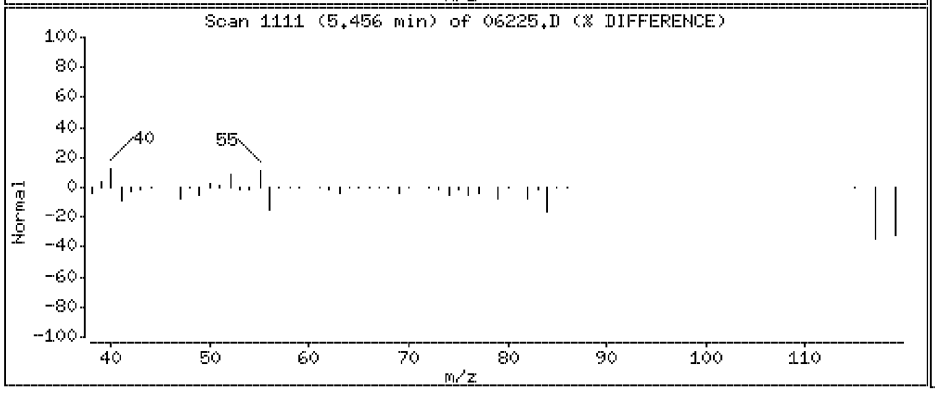
43 Benzene

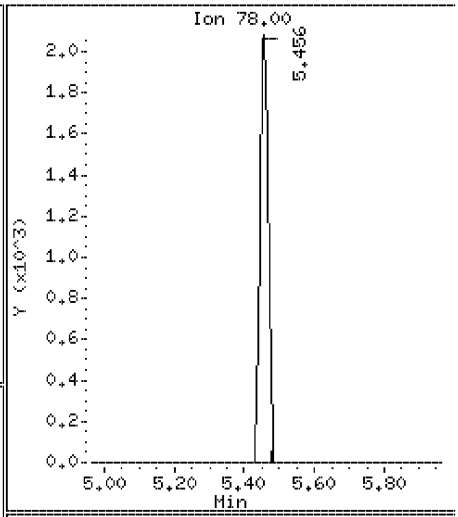
Concentration: 0.140 ppbv

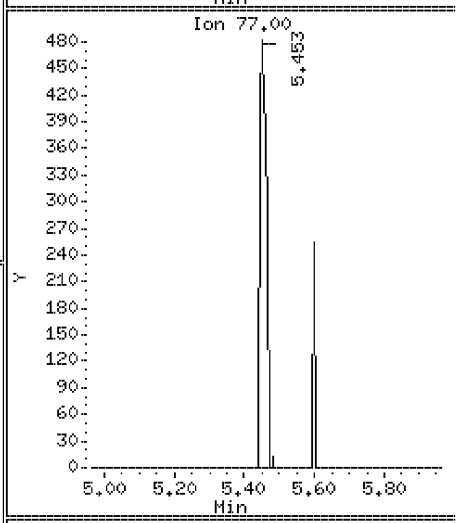


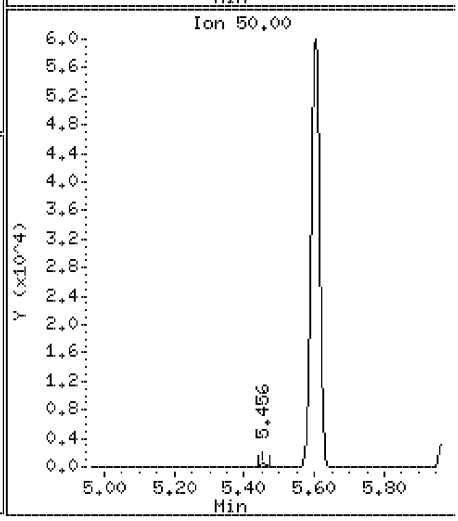












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

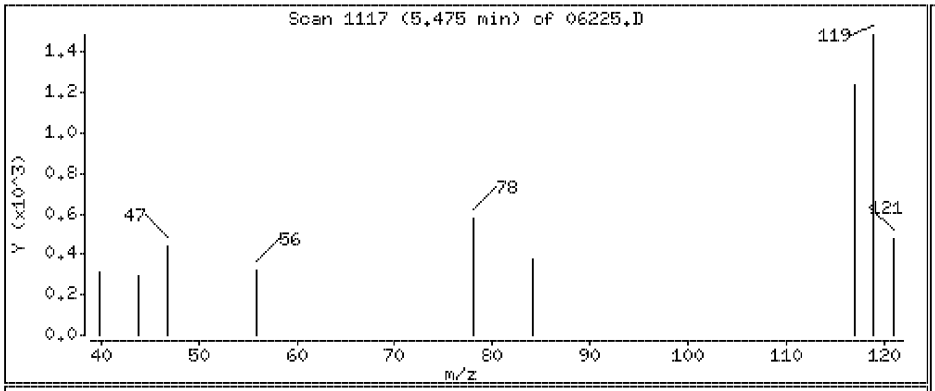
Operator: MJL

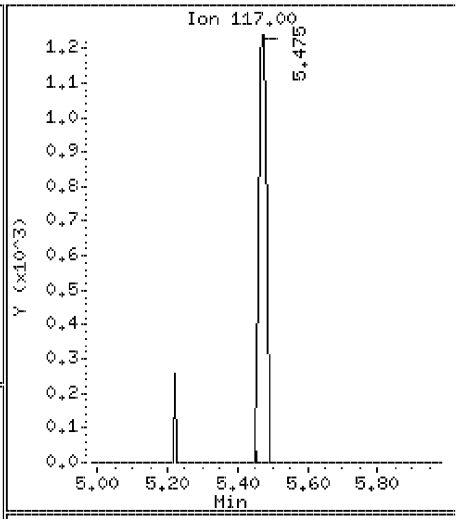
Column phase: J&W DB-5

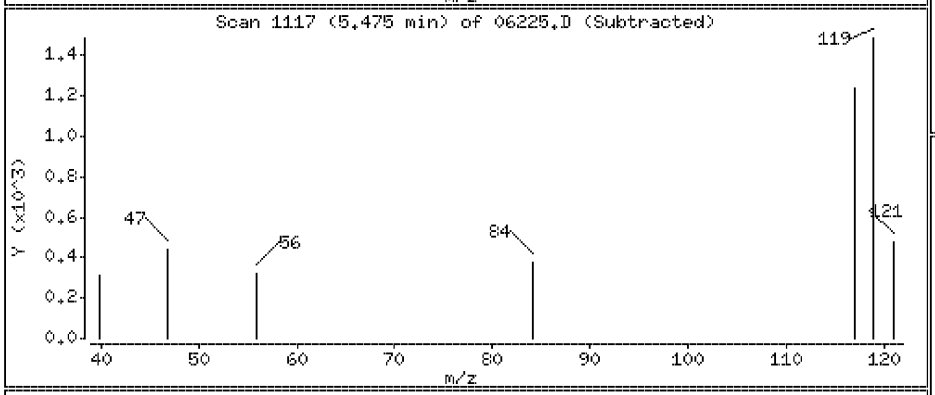
Column diameter: 0.32

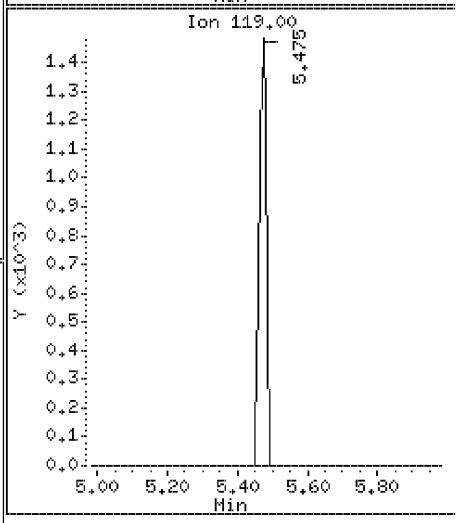
44 Carbon tetrachloride

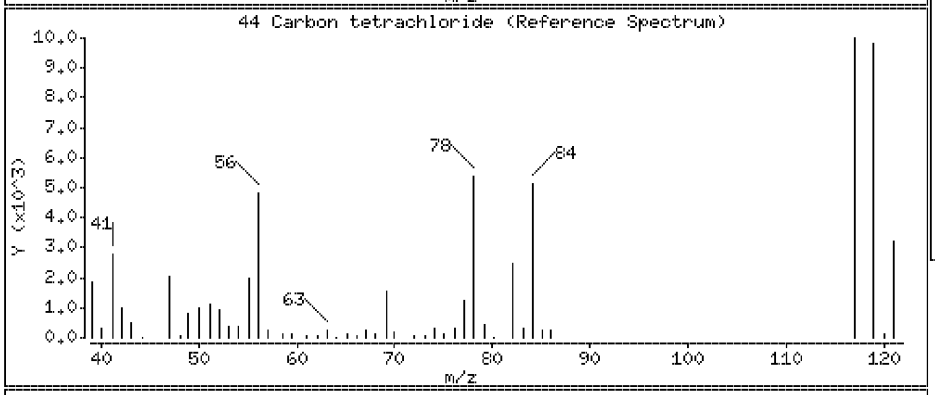
Concentration: 0.108 ppbv

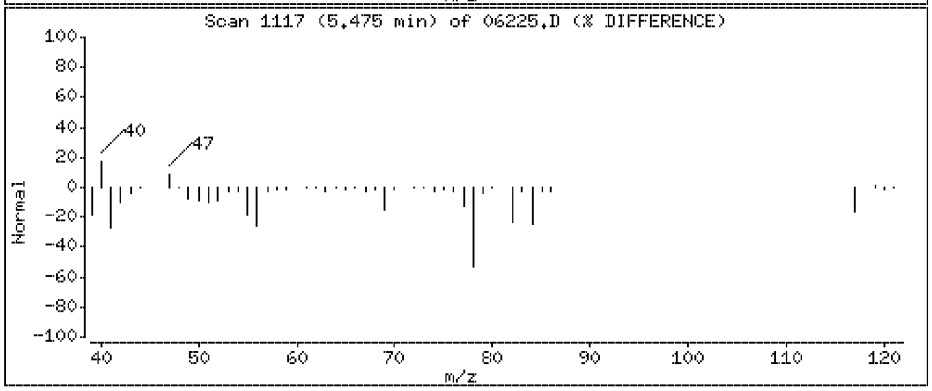












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

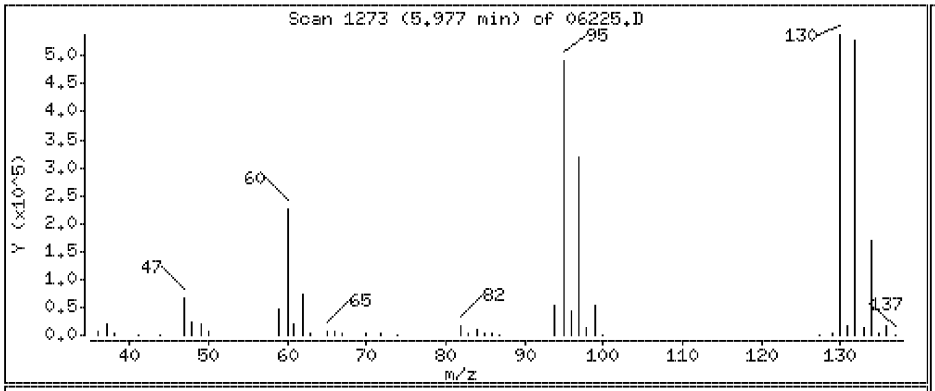
Operator: MJL

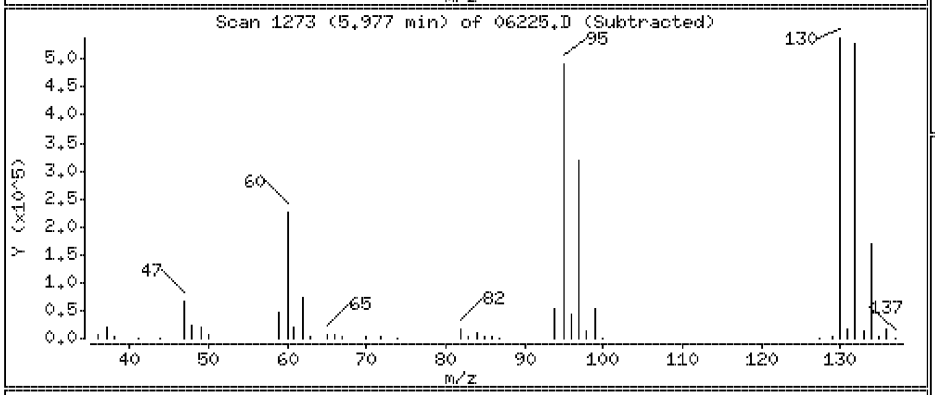
Column phase: J&W DB-5

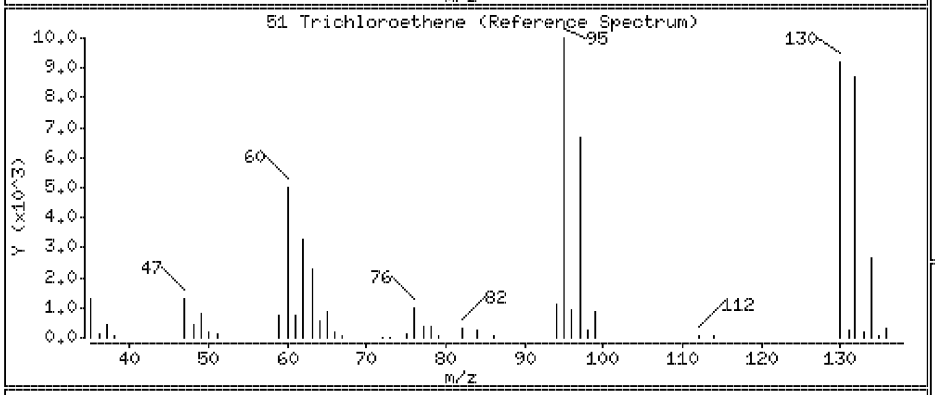
Column diameter: 0.32

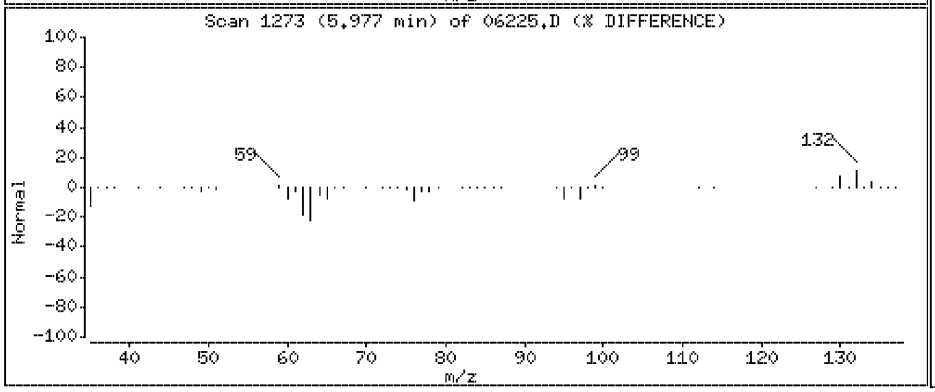
51 Trichloroethene

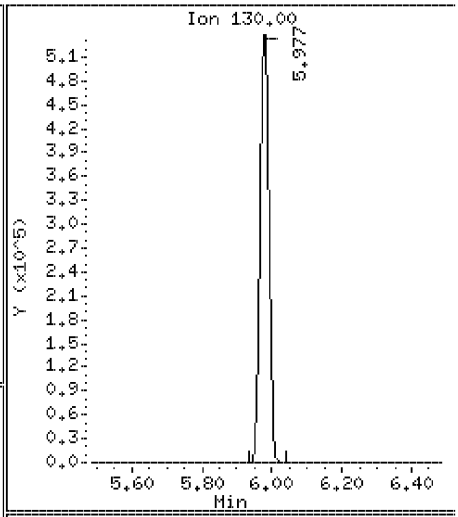
Concentration: 77.1 ppbv

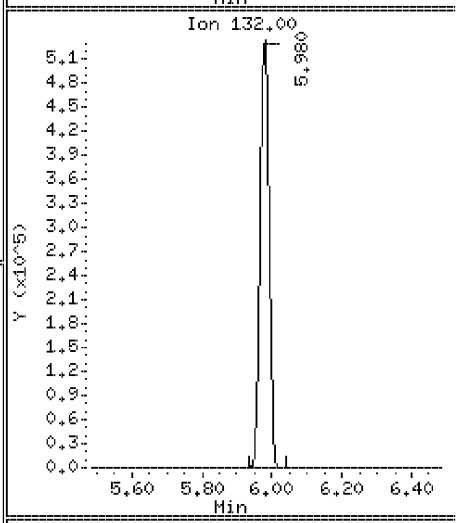


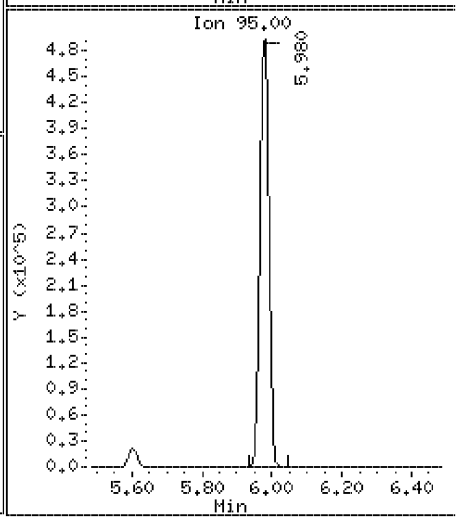












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

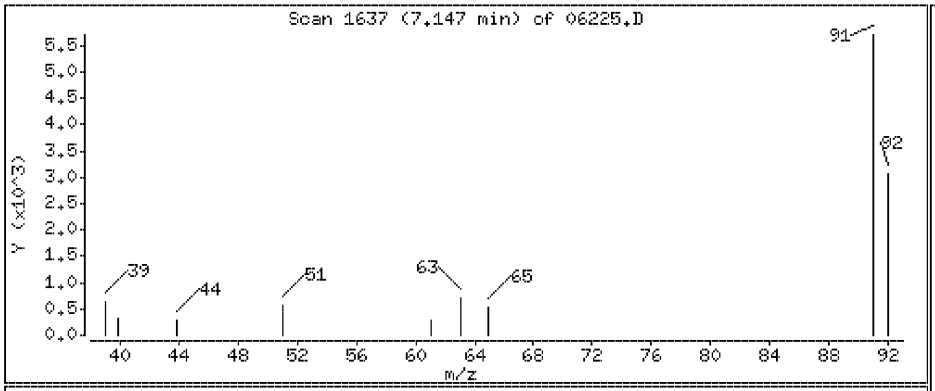
Operator: MJL

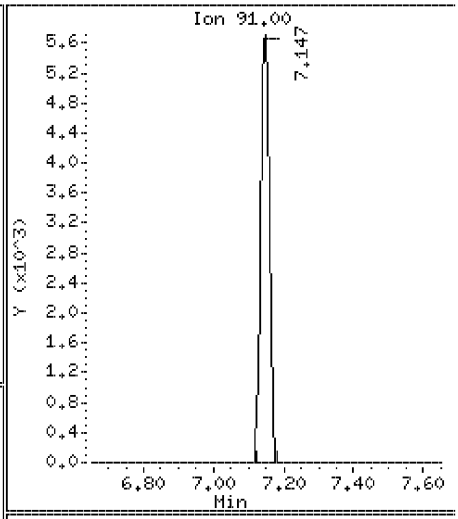
Column phase: J&W DB-5

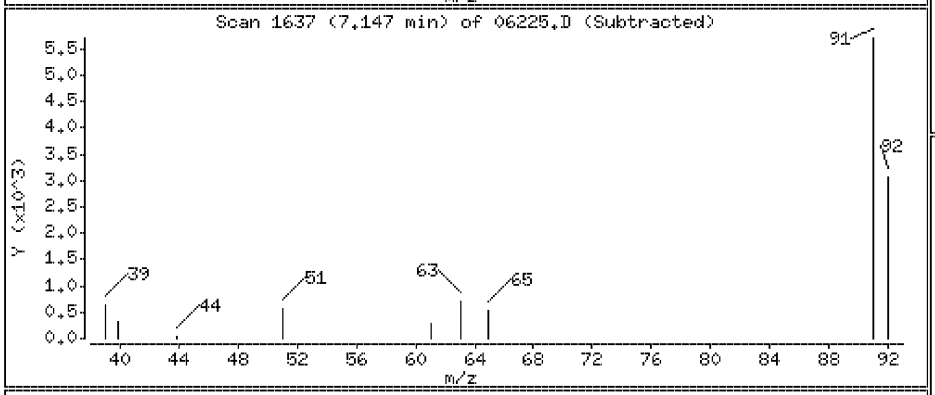
Column diameter: 0.32

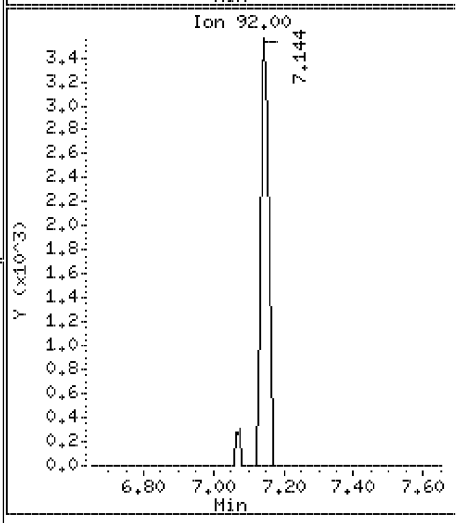
61 Toluene

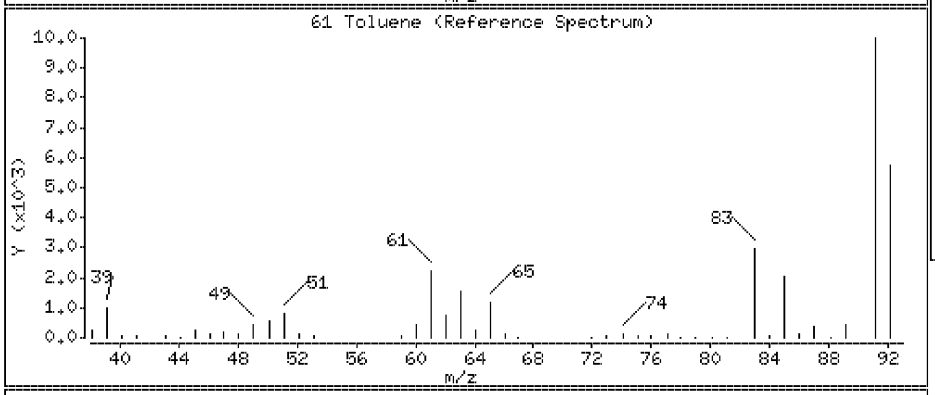
Concentration: 0.326 ppbv

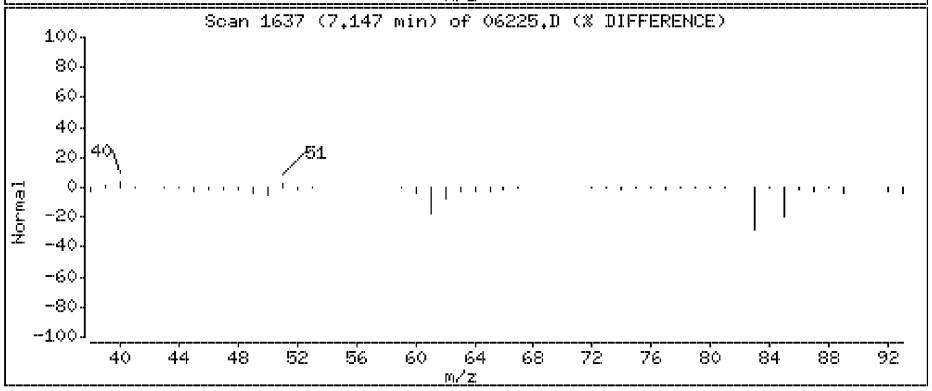












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

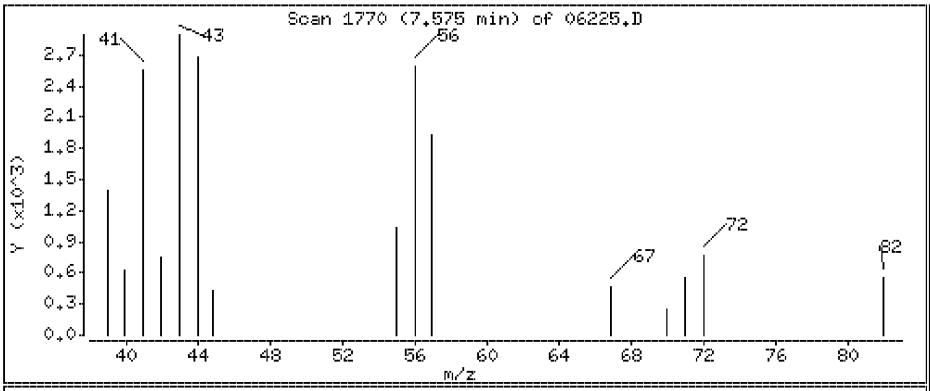
Operator: MJL

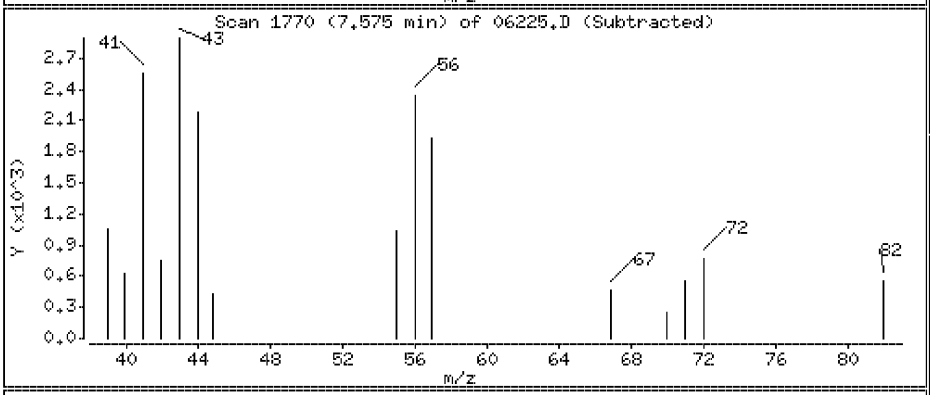
Column phase: J&W DB-5

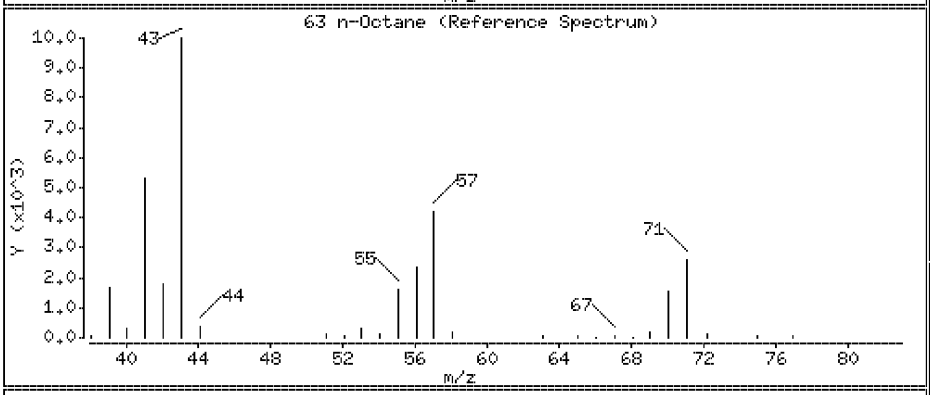
Column diameter: 0.32

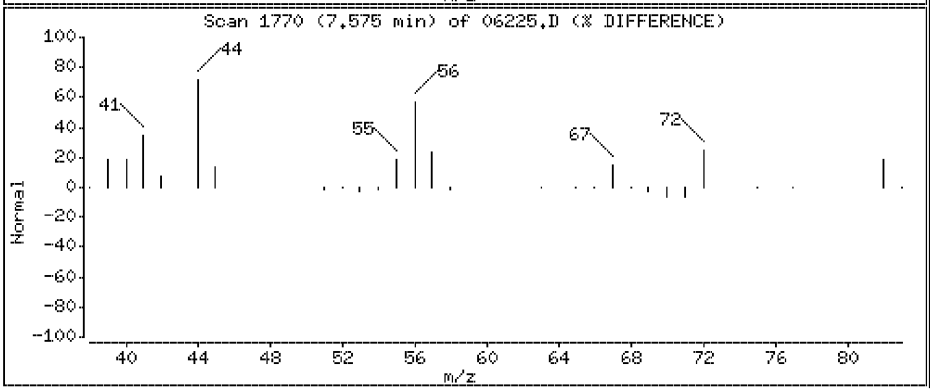
63 n-Octane

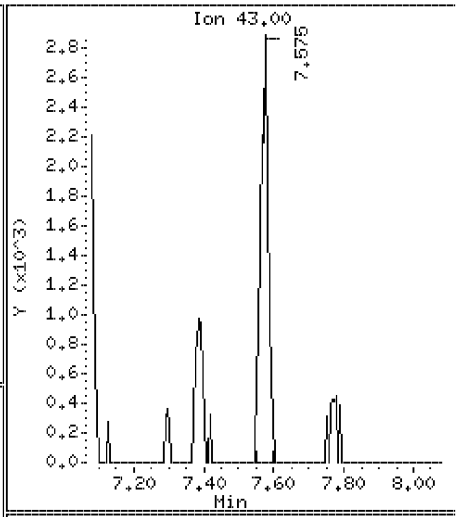
Concentration: 0.245 ppbv

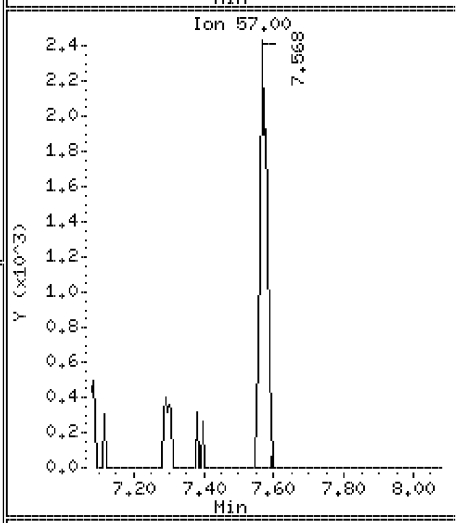


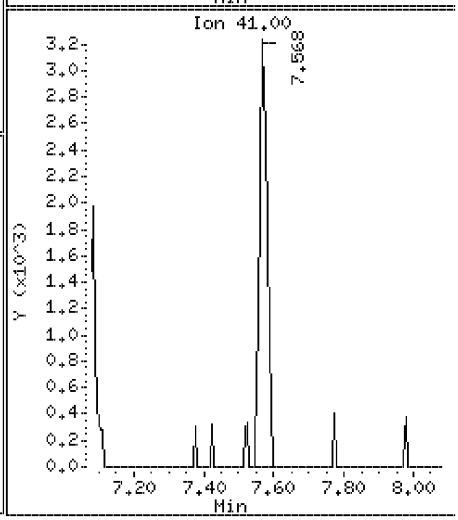












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

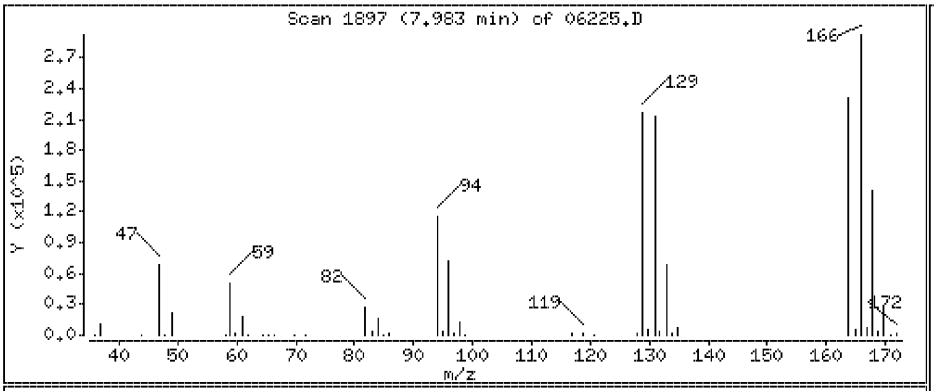
Operator: MJL

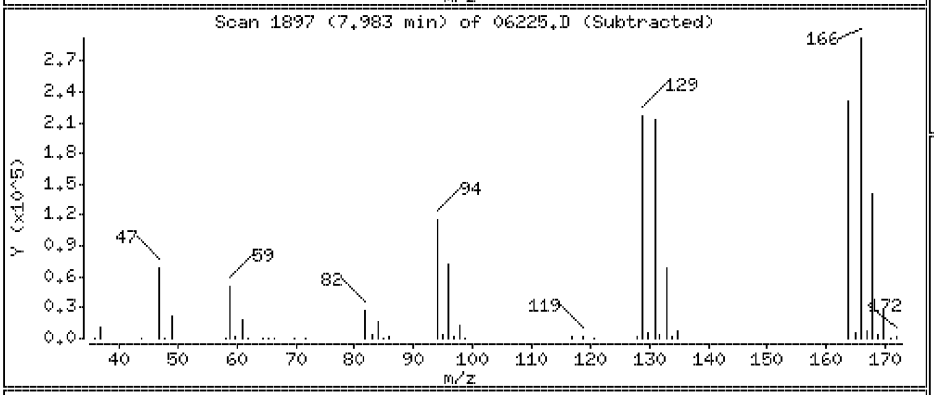
Column phase: J&W DB-5

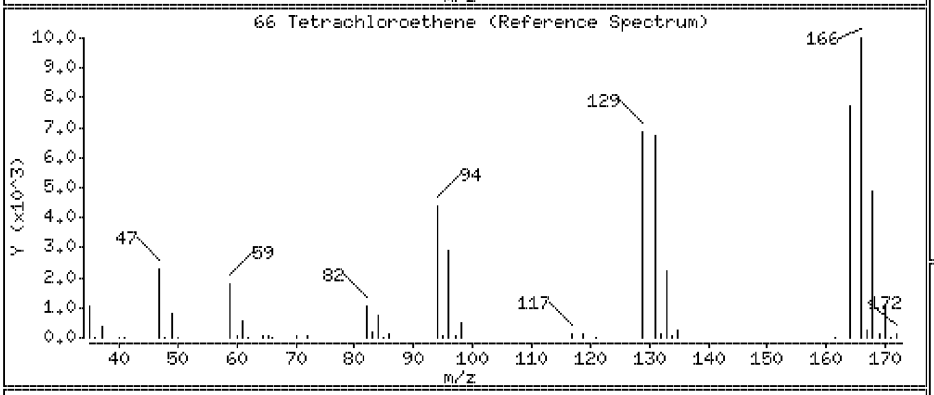
Column diameter: 0.32

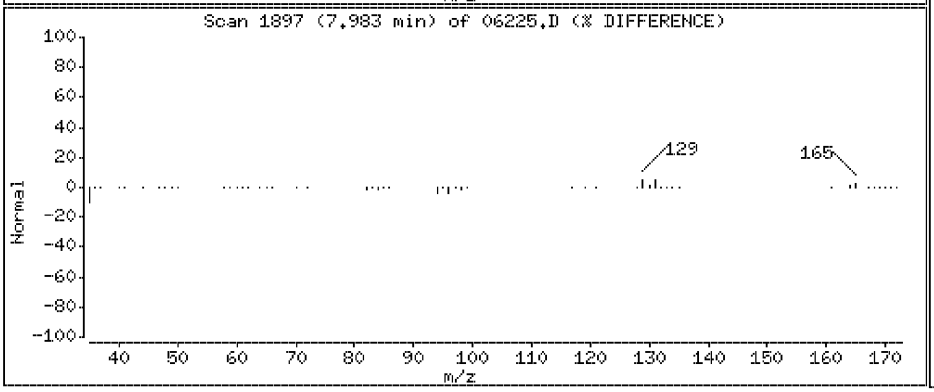
66 Tetrachloroethene

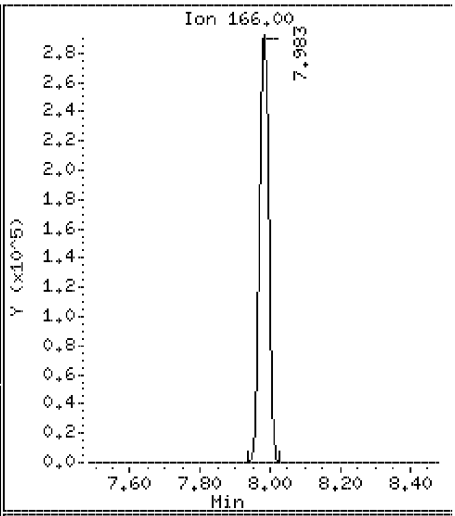
Concentration: 30.8 ppbv

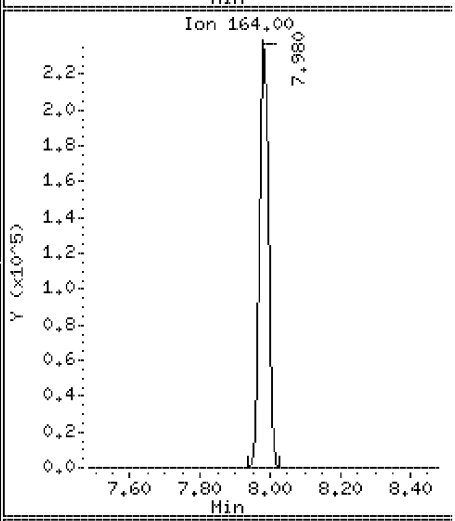


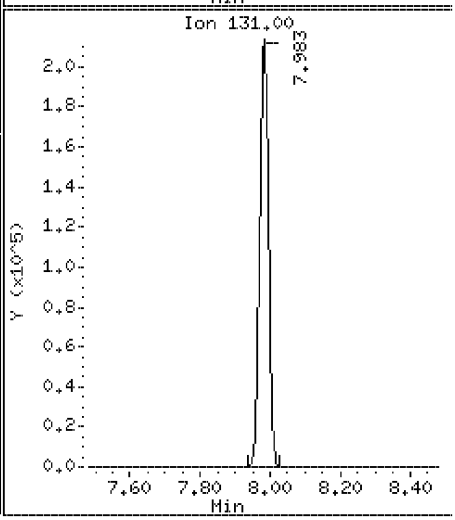












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

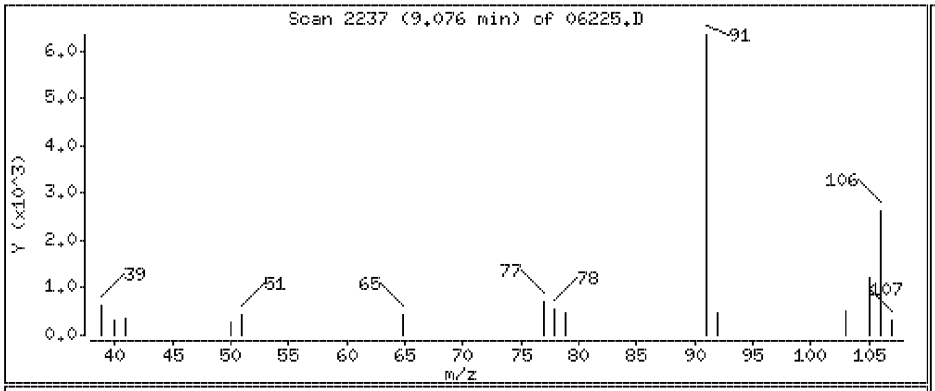
Operator: MJL

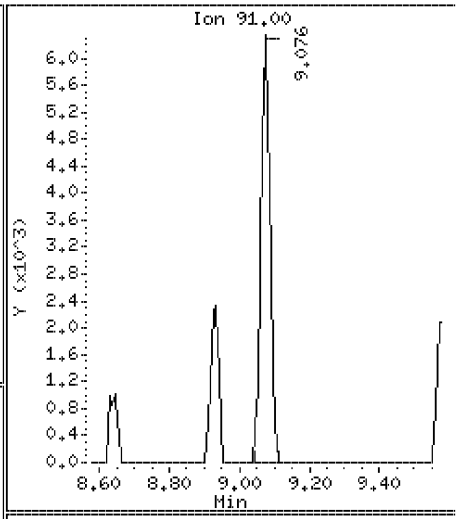
Column phase: J&W DB-5

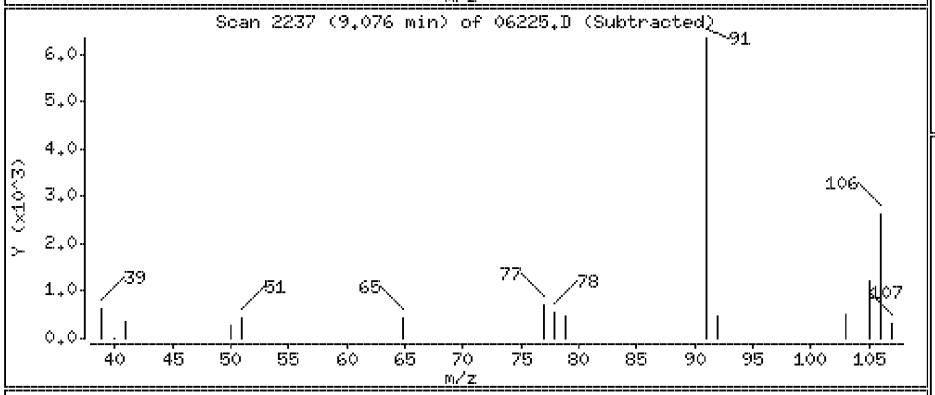
Column diameter: 0.32

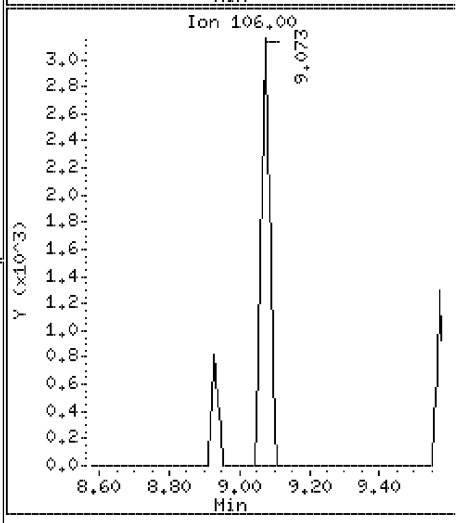
70 m&p-Xylene

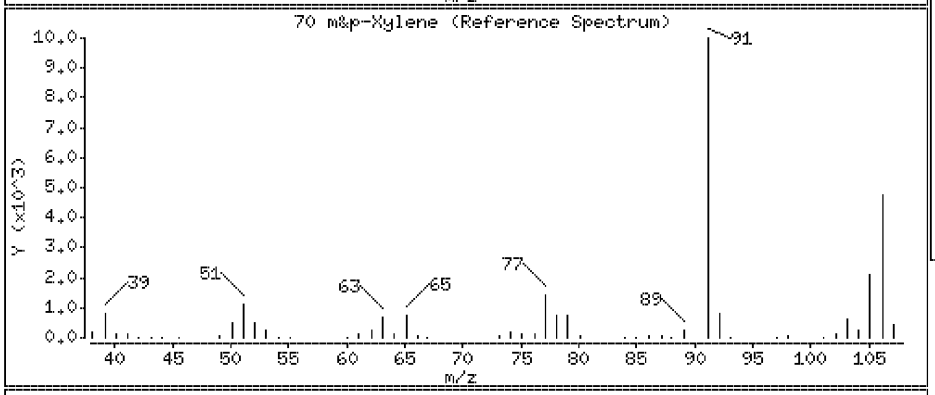
Concentration: 0.395 ppbv

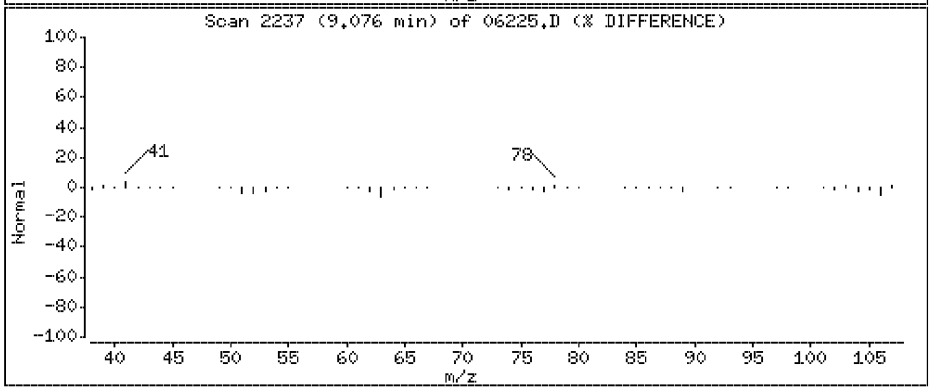












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

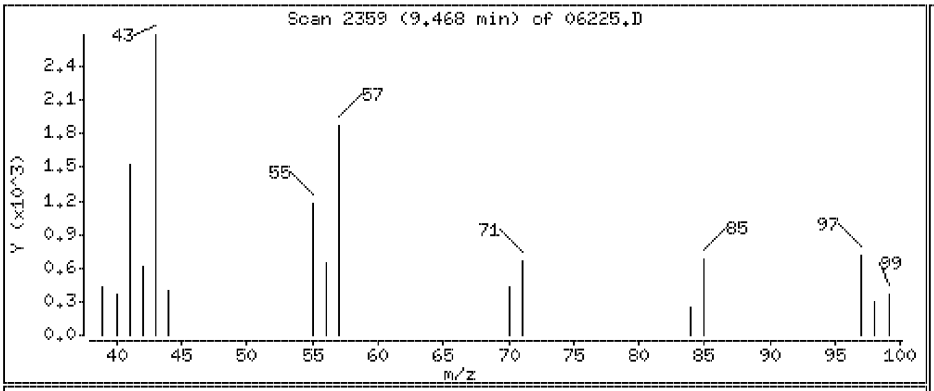
Operator: MJL

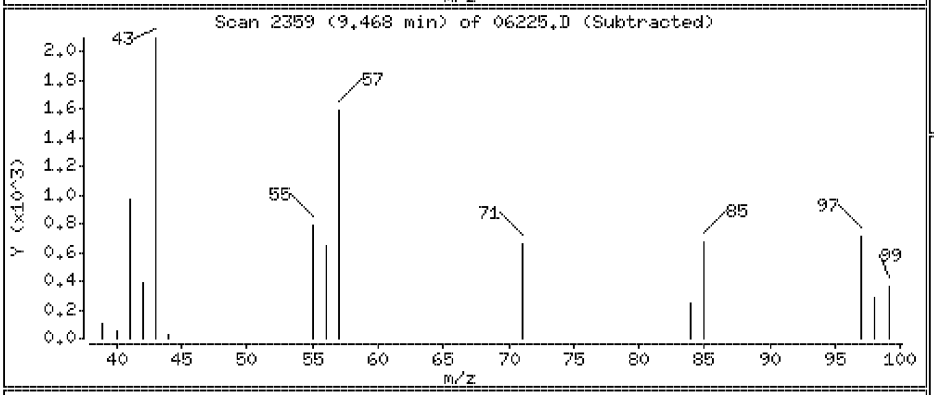
Column phase: J&W DB-5

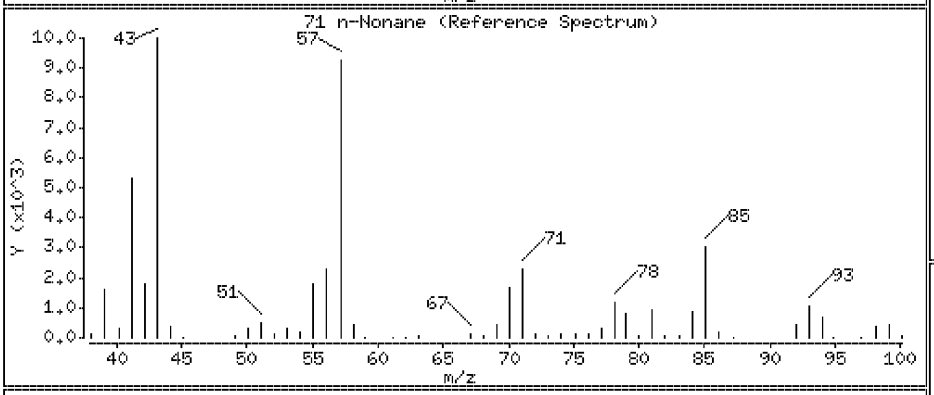
Column diameter: 0.32

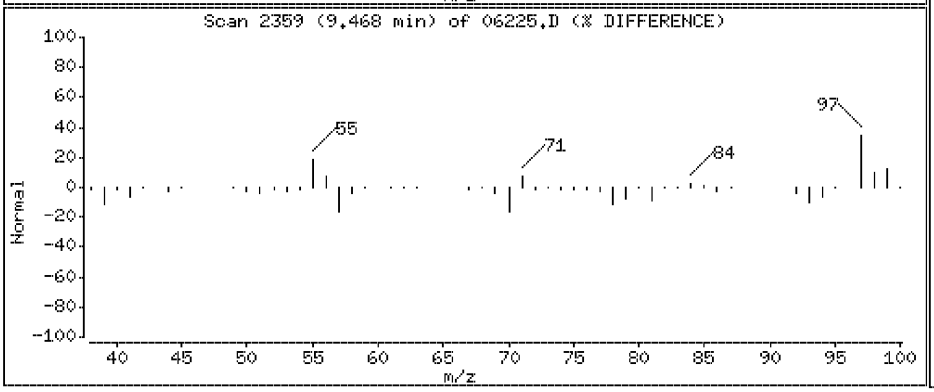
71 n-Nonane

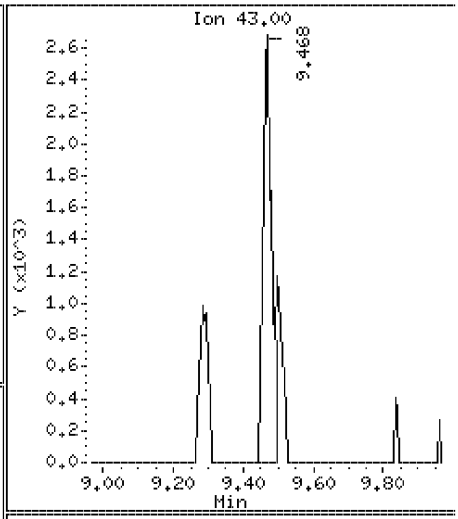
Concentration: 0.292 ppbv

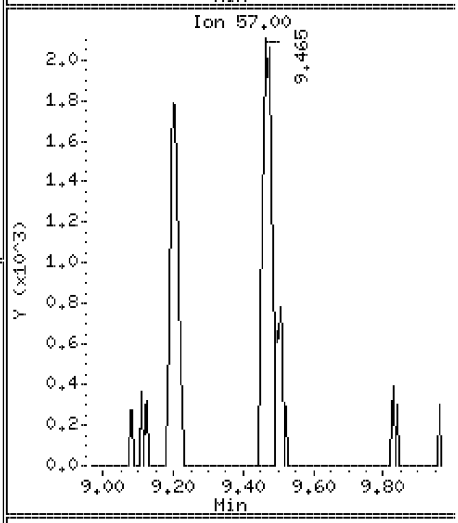


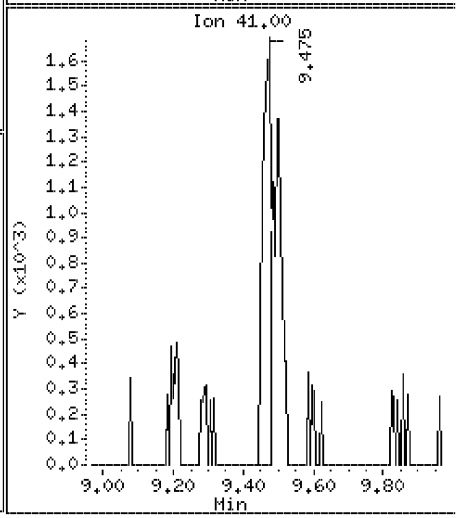












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

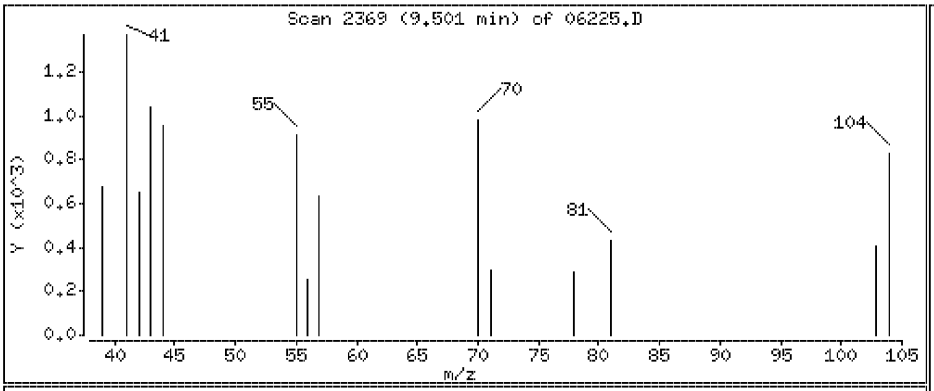
Operator: MJL

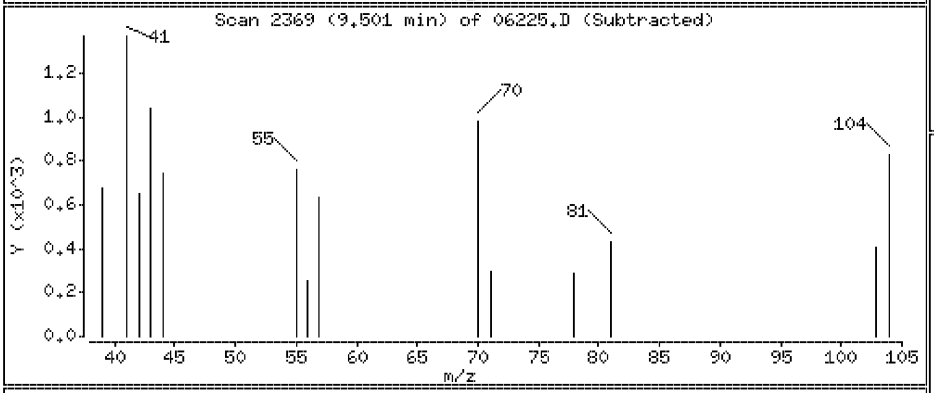
Column phase: J&W DB-5

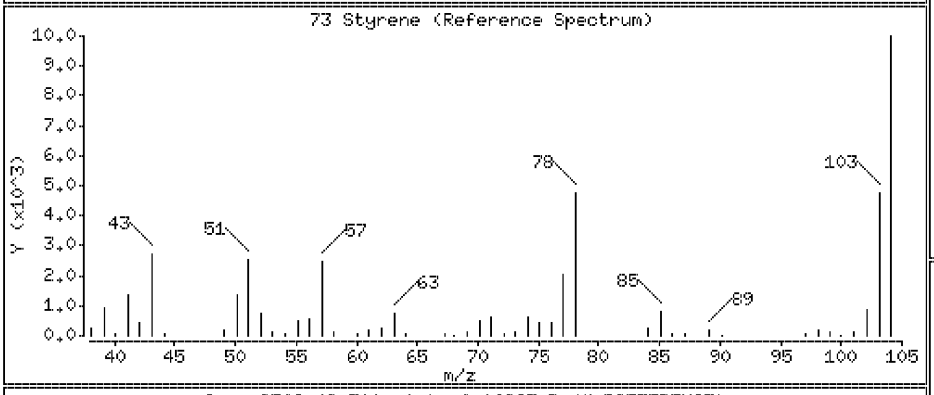
Column diameter: 0.32

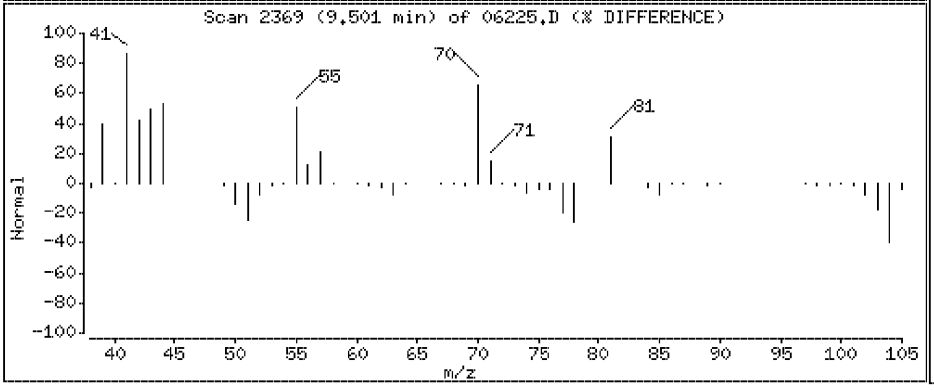
73 Styrene

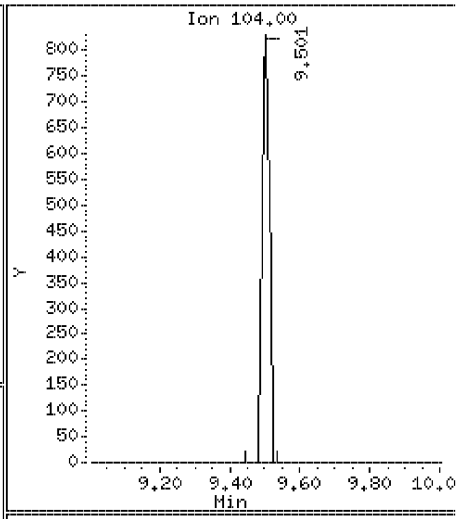
Concentration: 0.178 ppbv

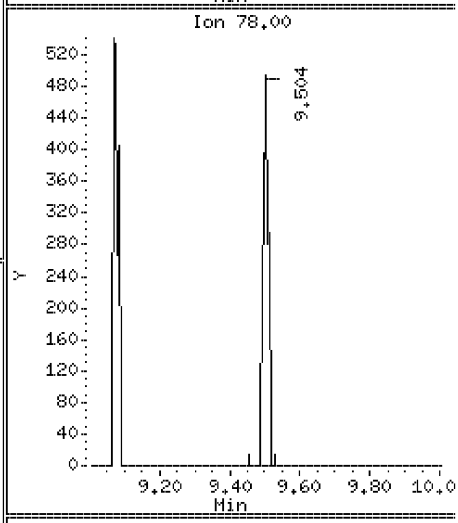


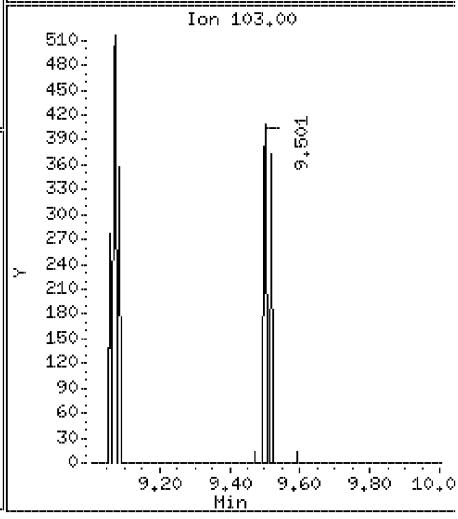












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

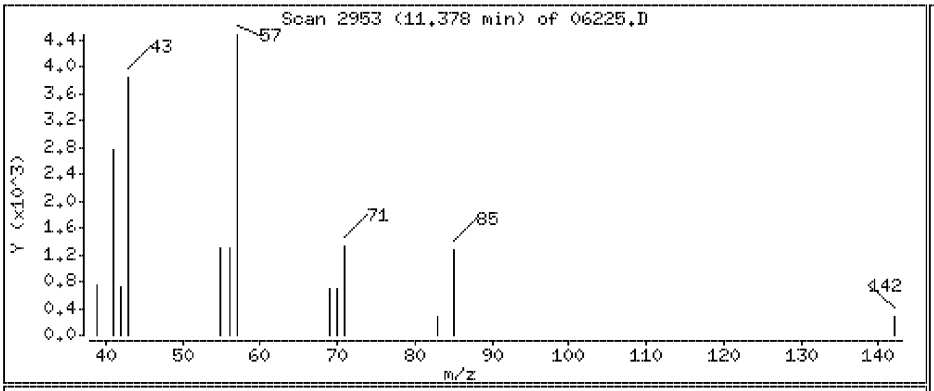
Operator: MJL

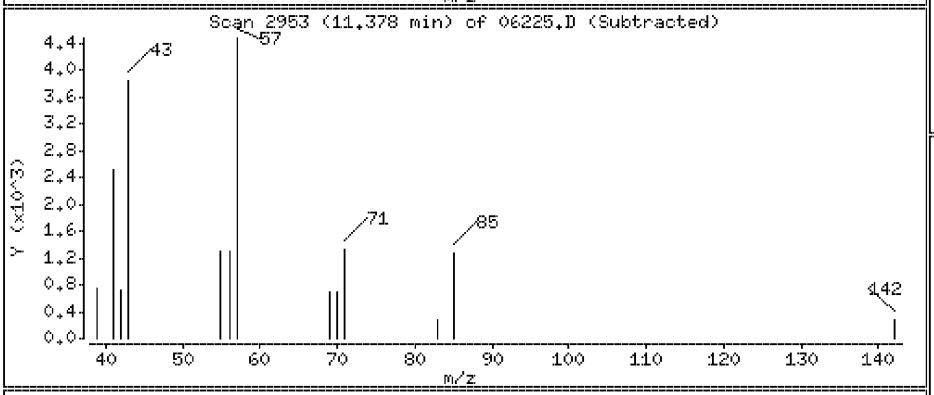
Column phase: J&W DB-5

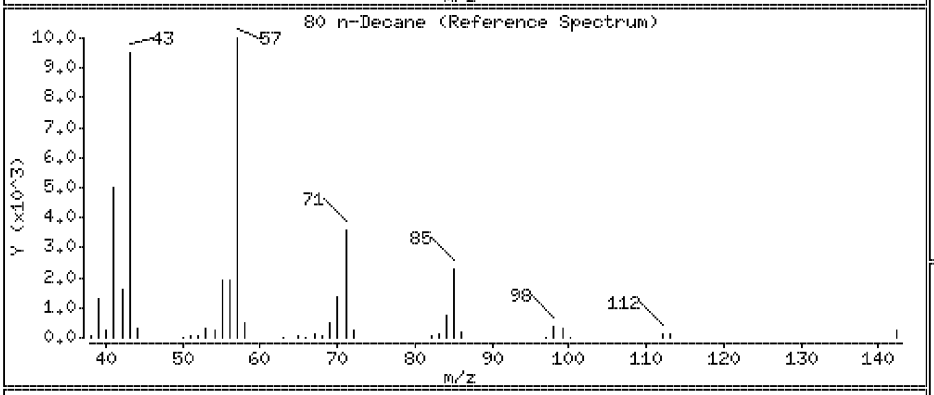
Column diameter: 0.32

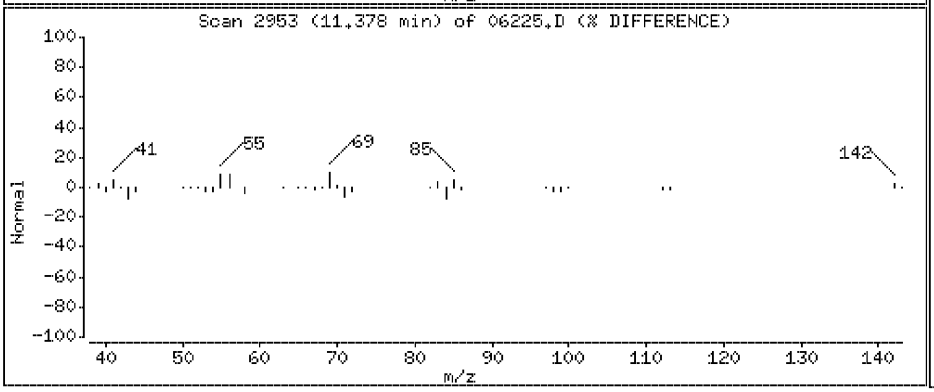
80 n-Decane

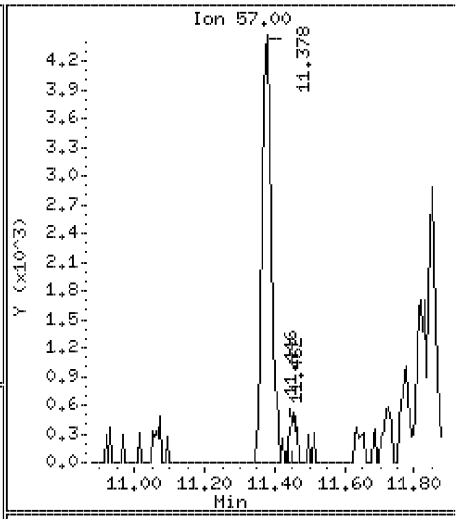
Concentration: 0.846 ppbv

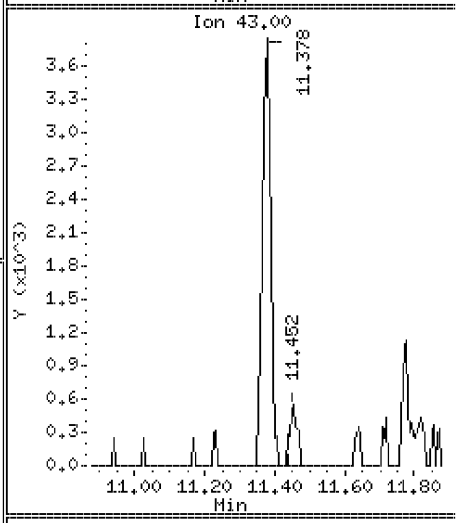


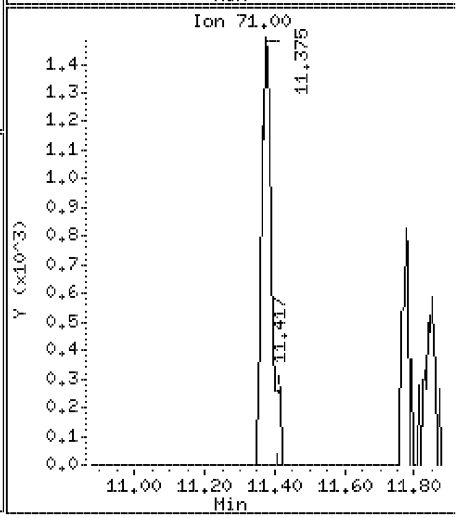












Data File: \\192.168.10.12\chem\10airB.i\030317.b\06225.D

Date : 03-MAR-2017 20:01

Client ID:

Instrument: 10airB.i

Sample Info:

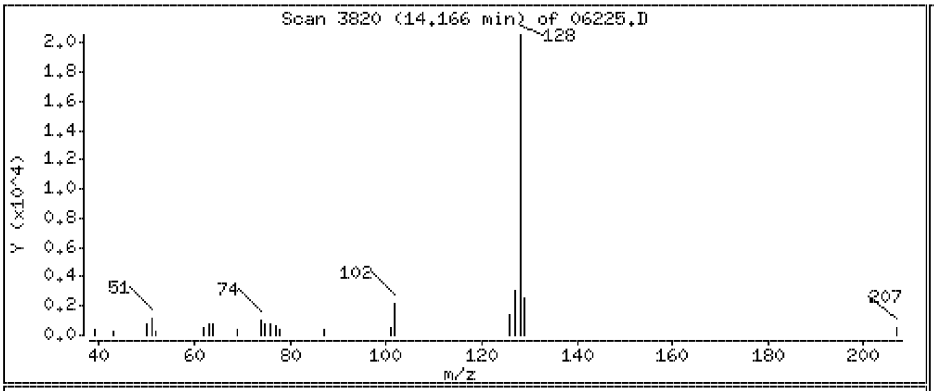
Operator: MJL

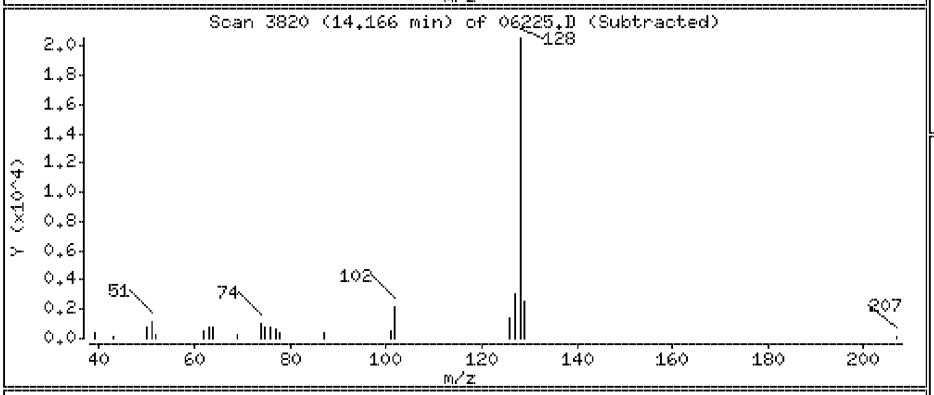
Column phase: J&W DB-5

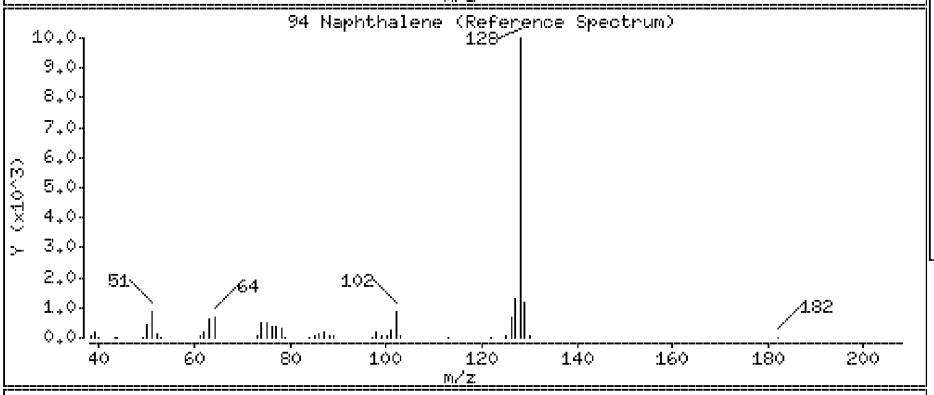
Column diameter: 0.32

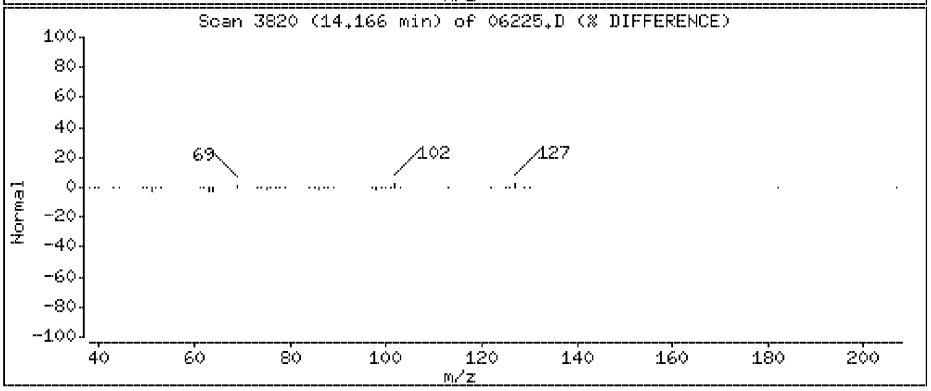
94 Naphthalene

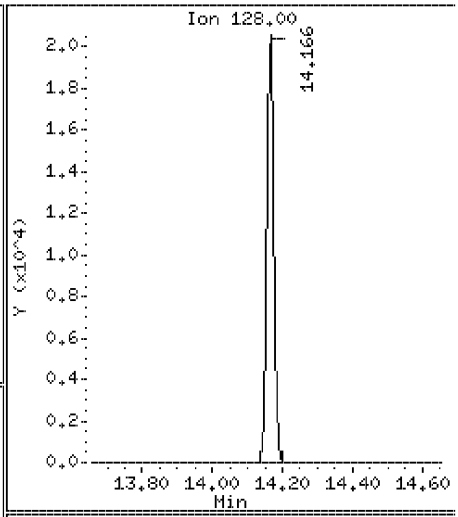
Concentration: 1.90 ppbv

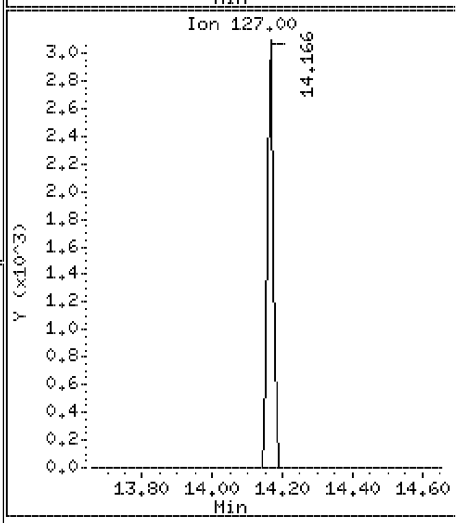






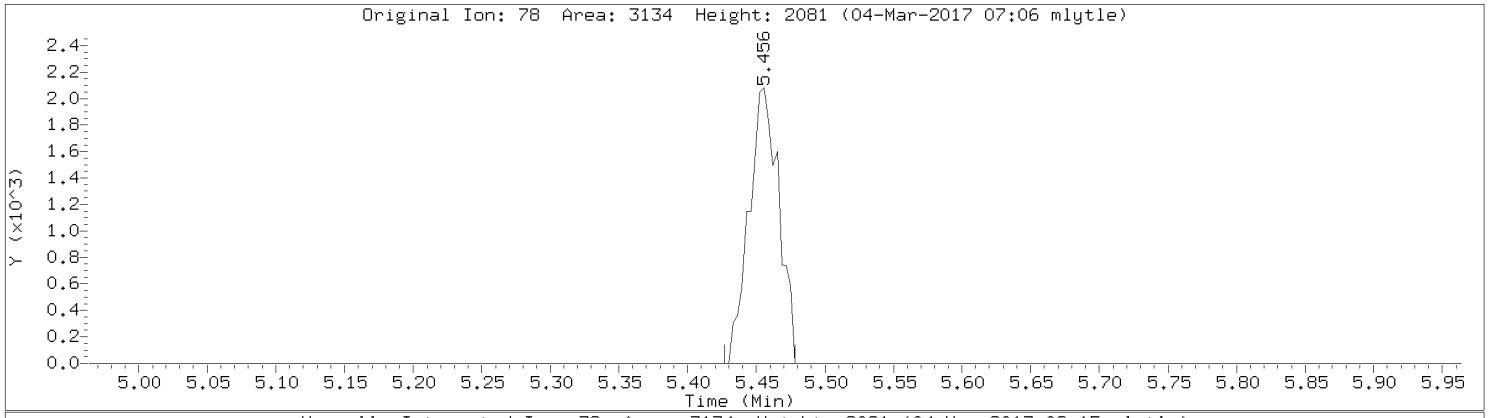


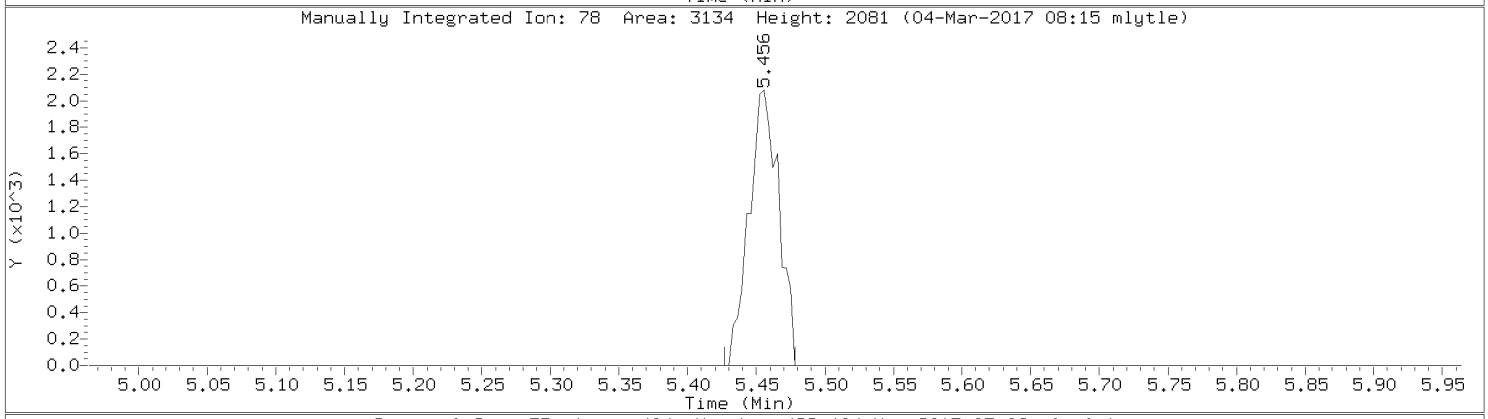


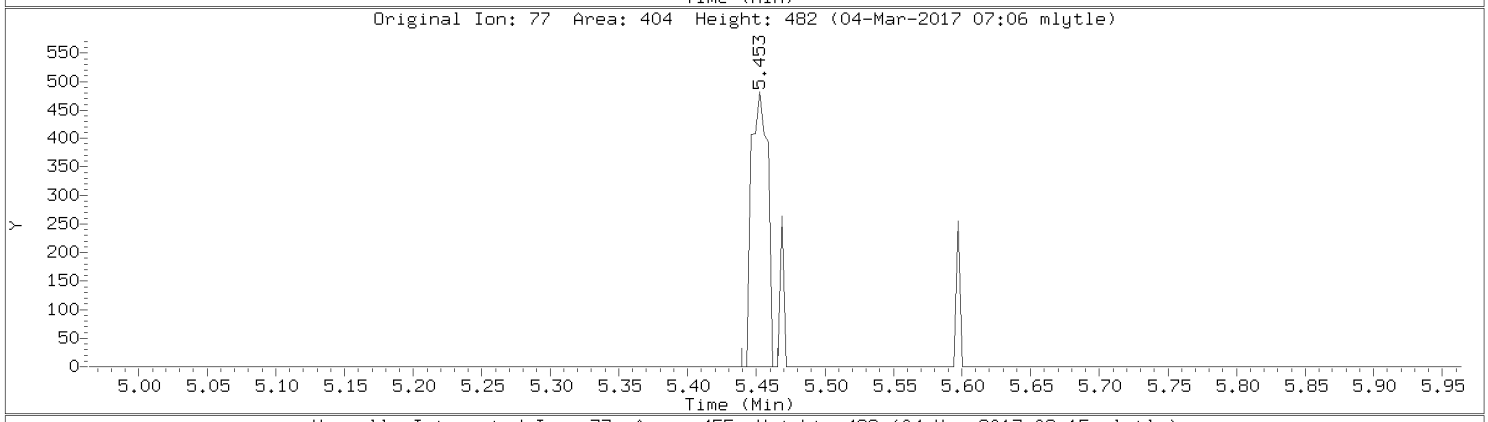


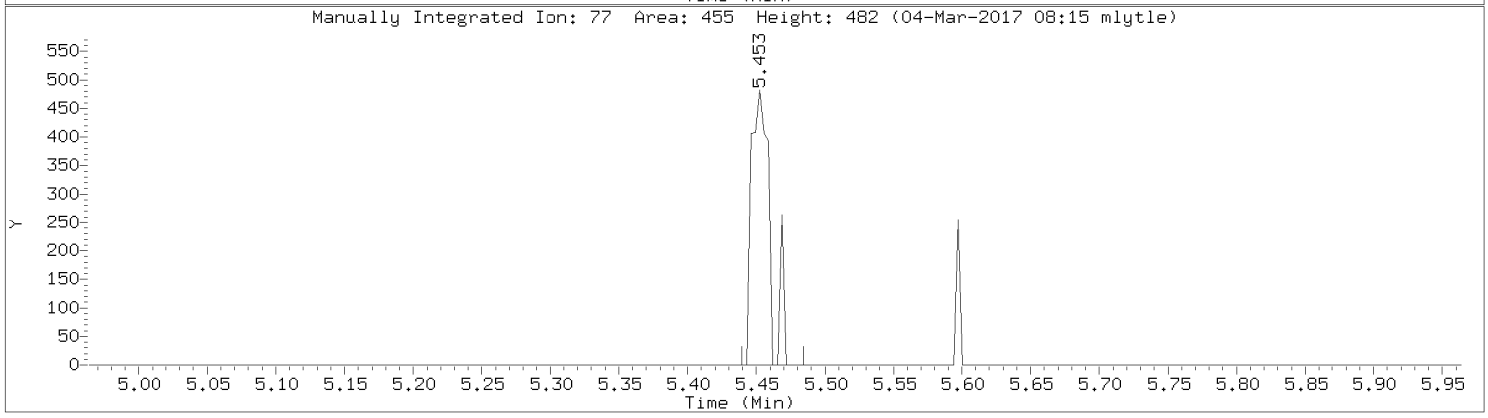
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007

Compound: Benzene
CAS Number: 71-43-2

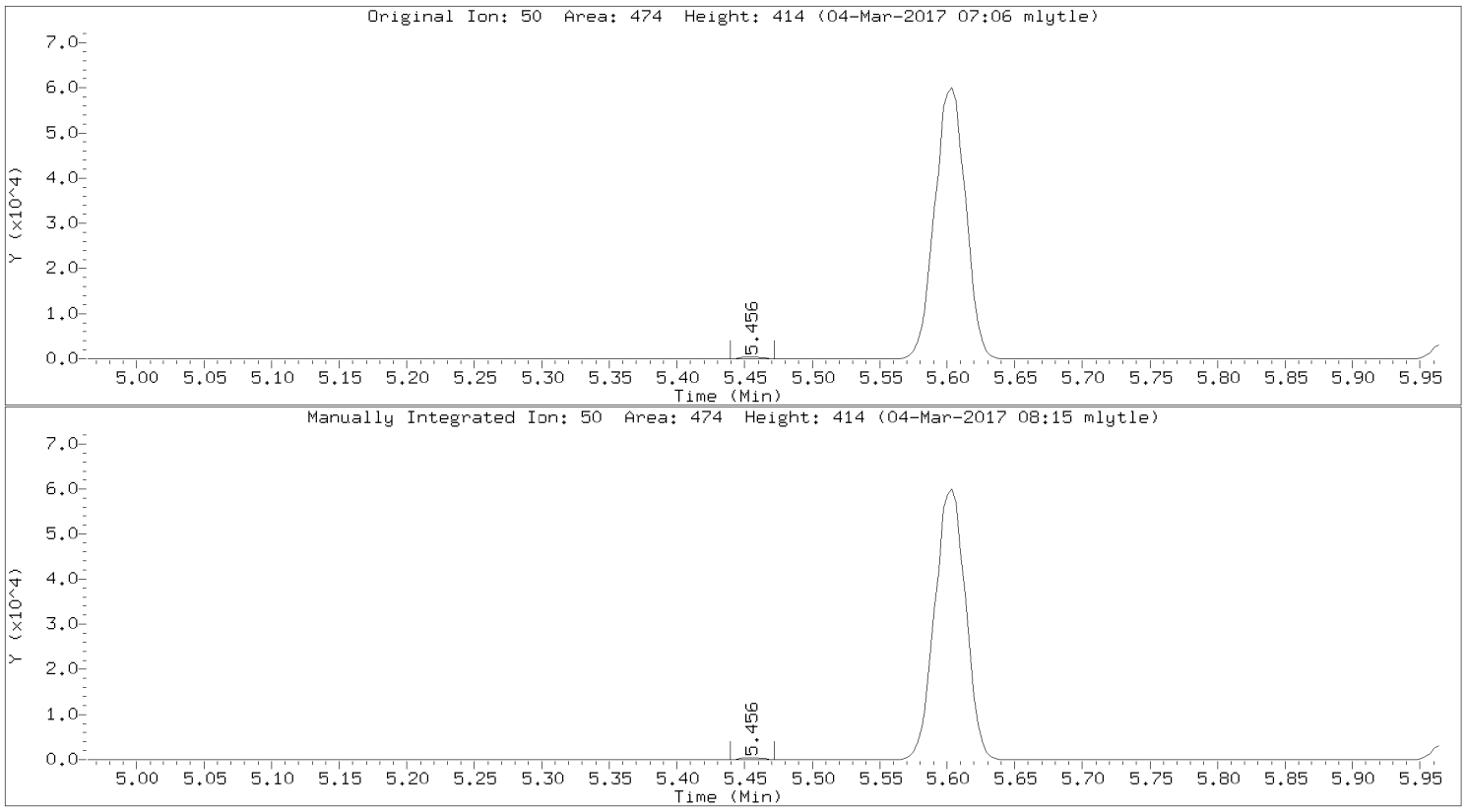






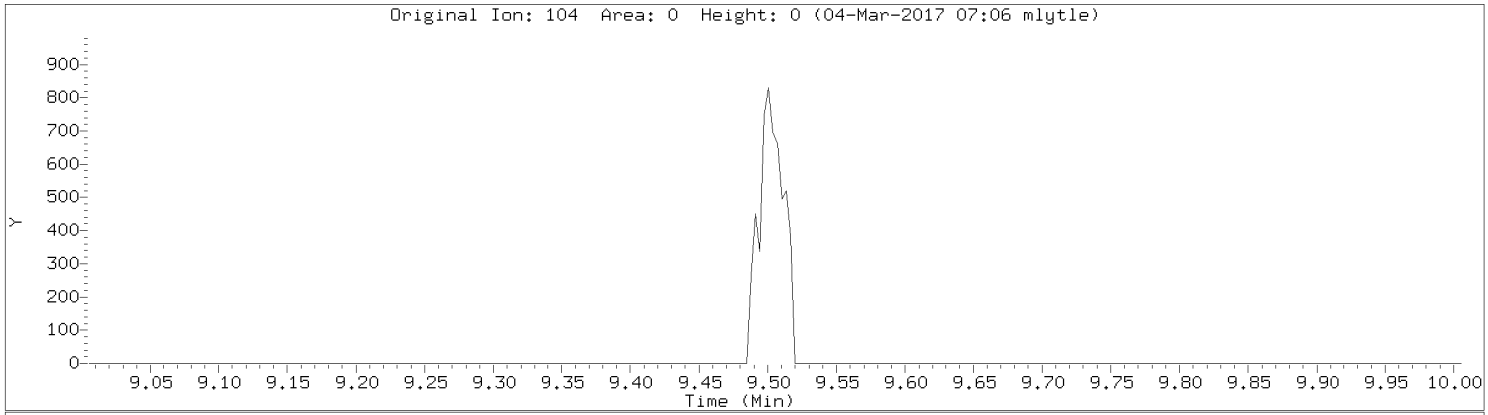


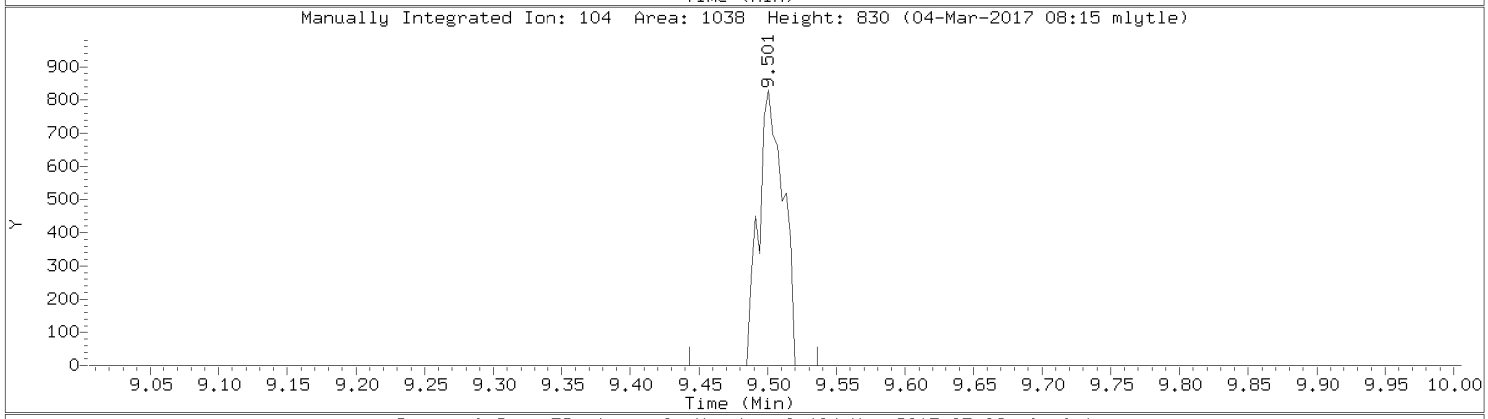
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007

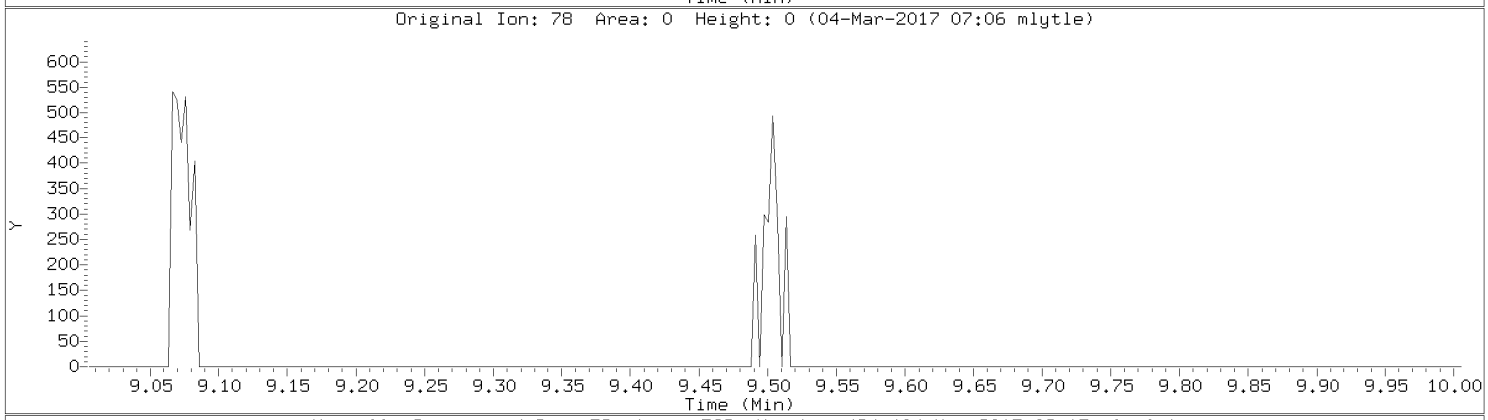


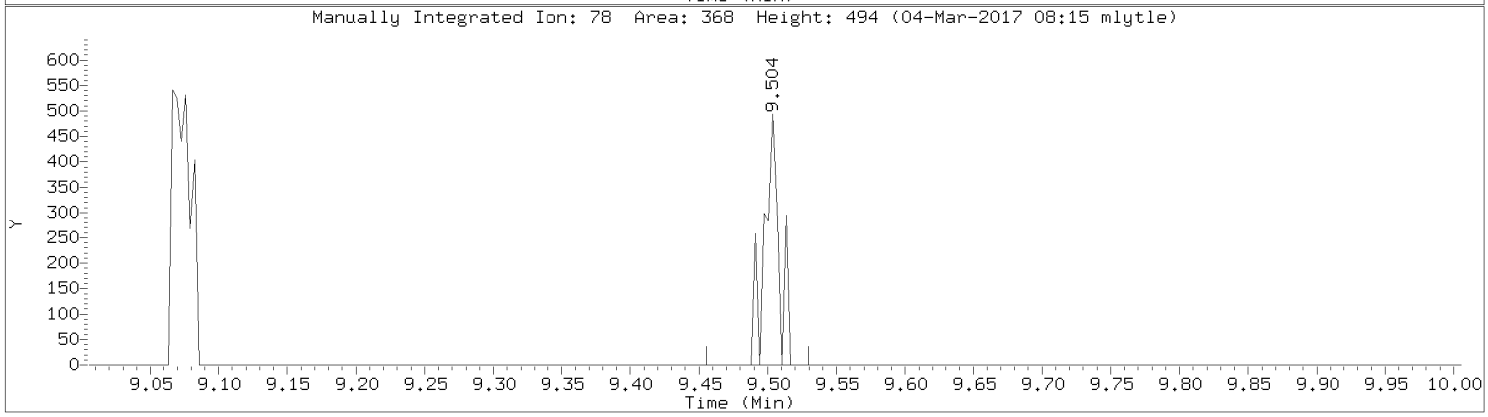
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007

Compound: Styrene
CAS Number: 100-42-5

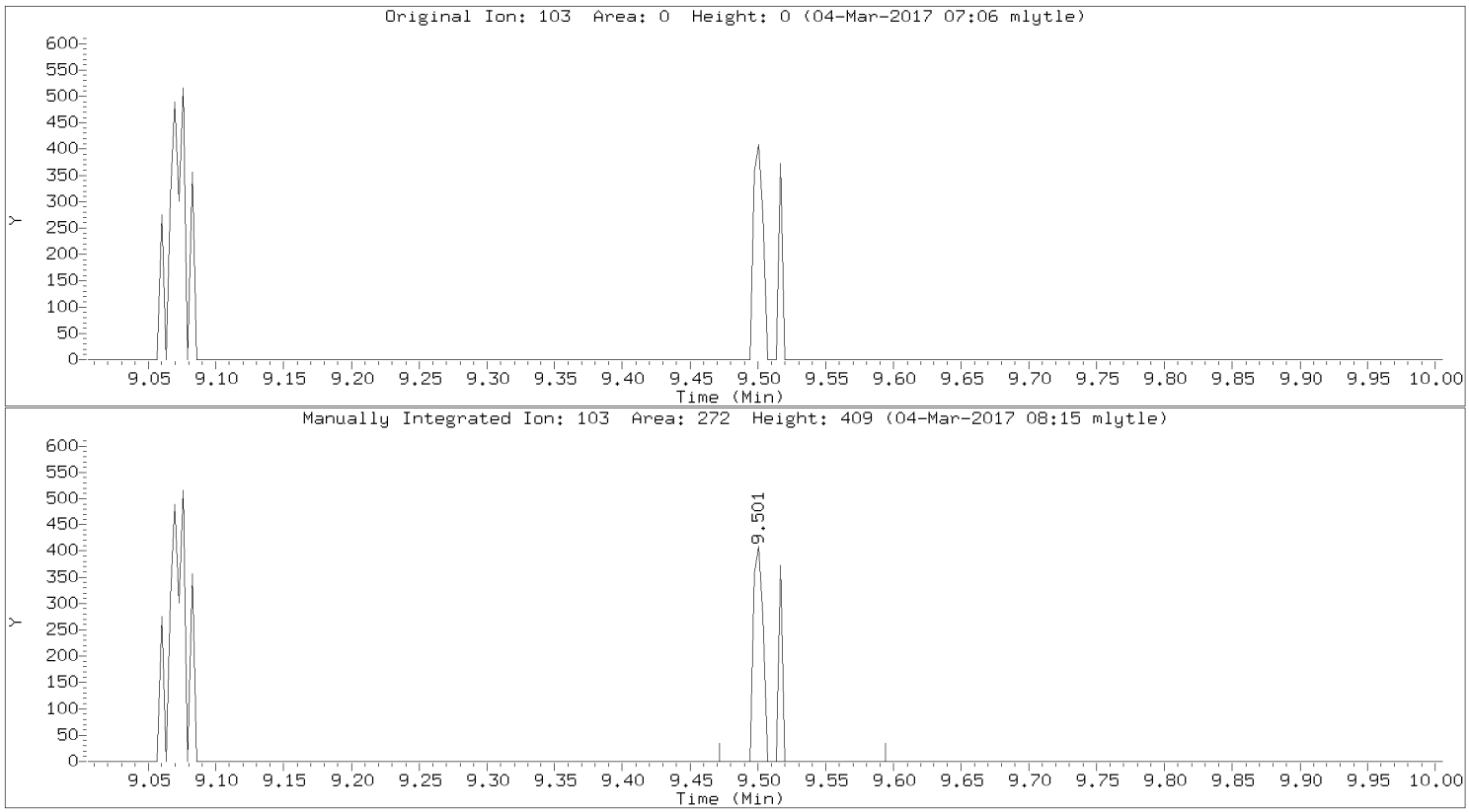






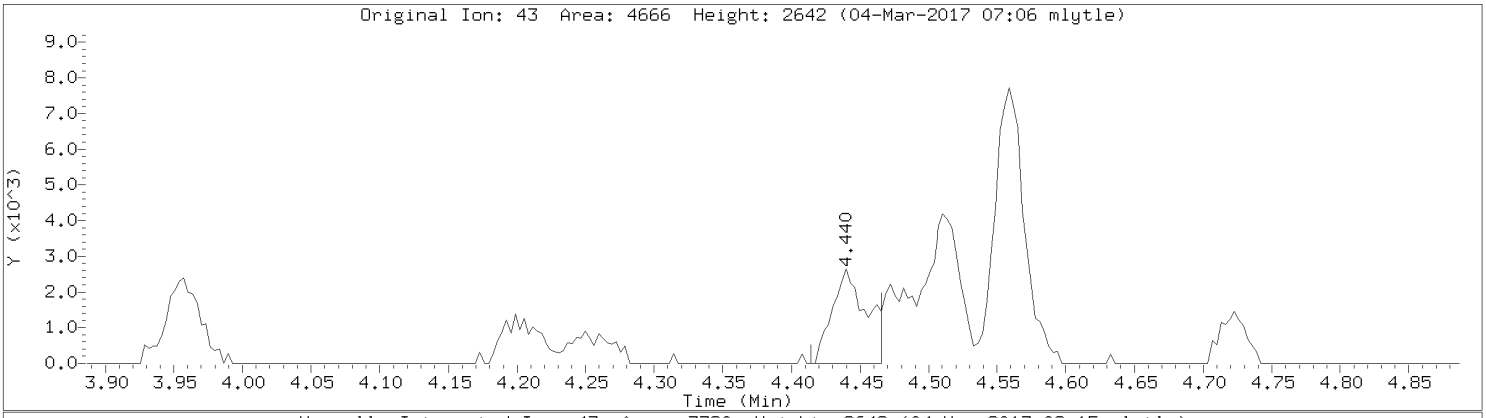


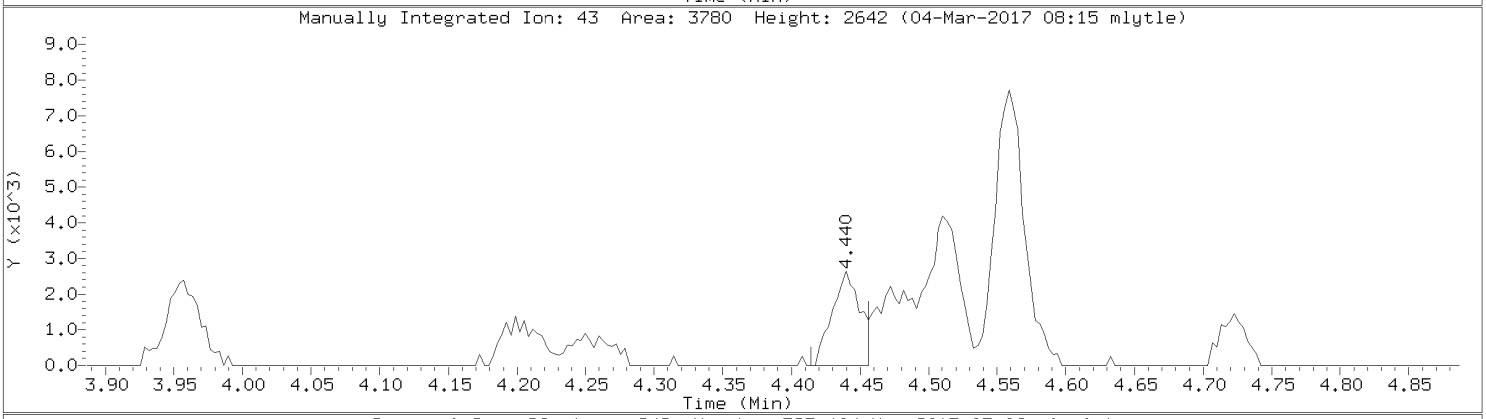
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007

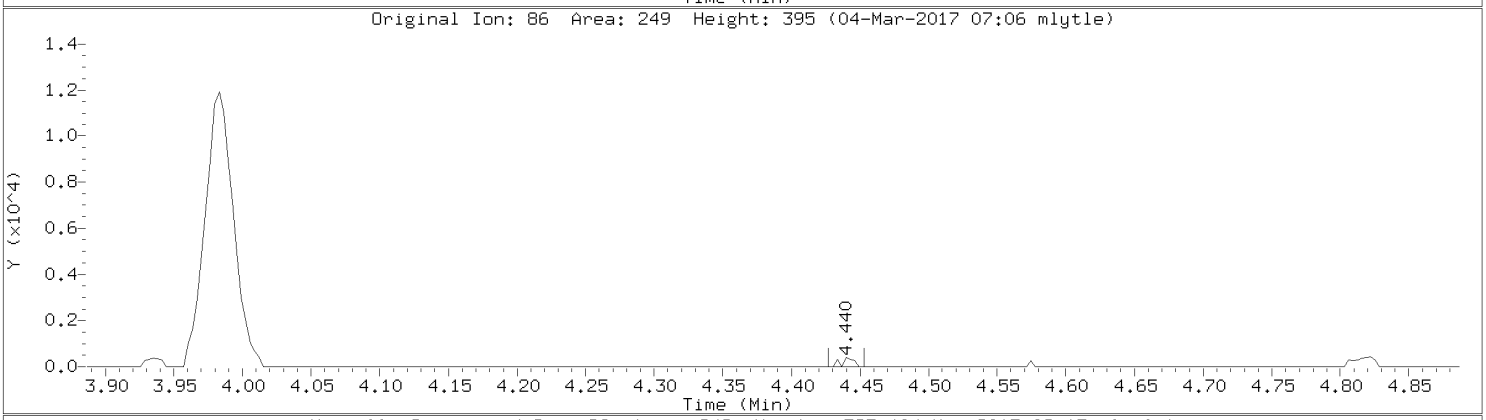


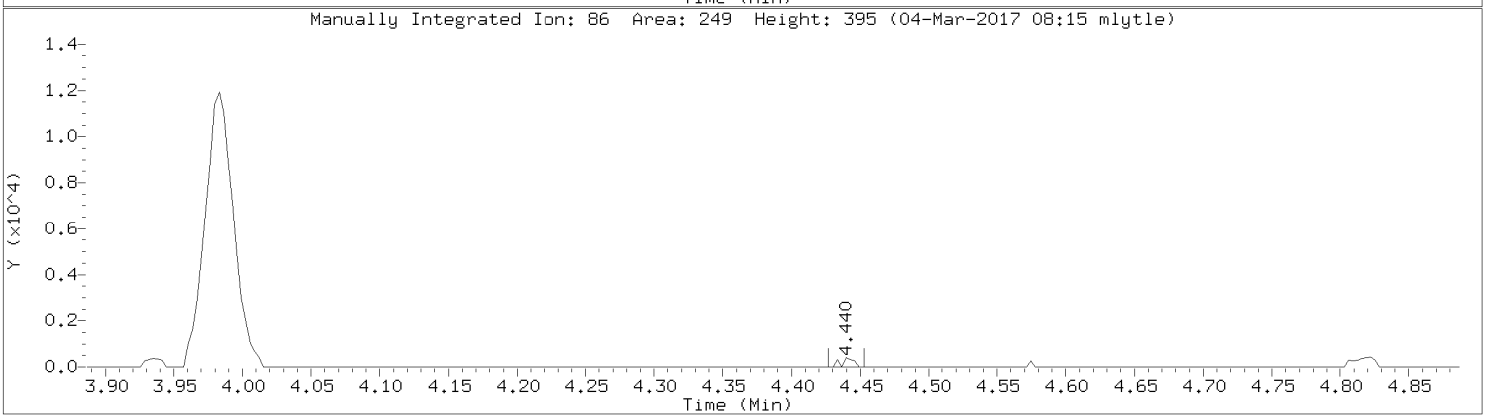
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007

Compound: Vinyl Acetate
CAS Number: 108-05-4



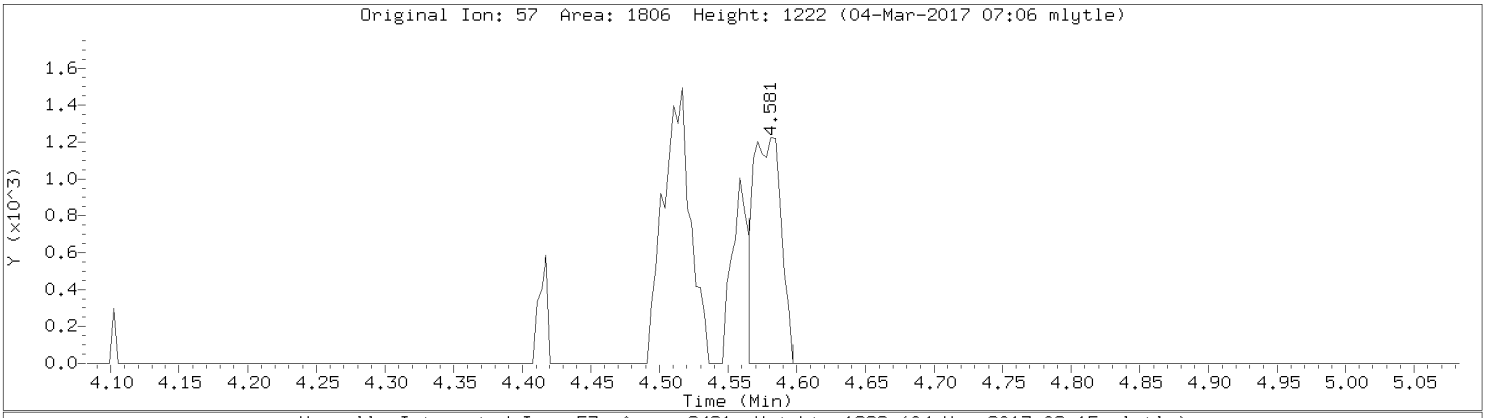


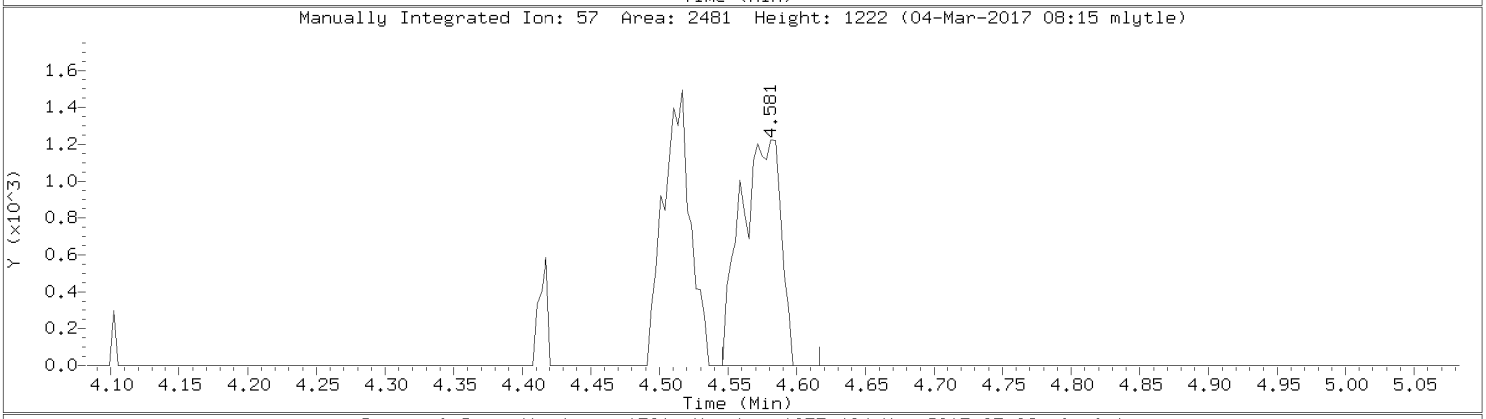


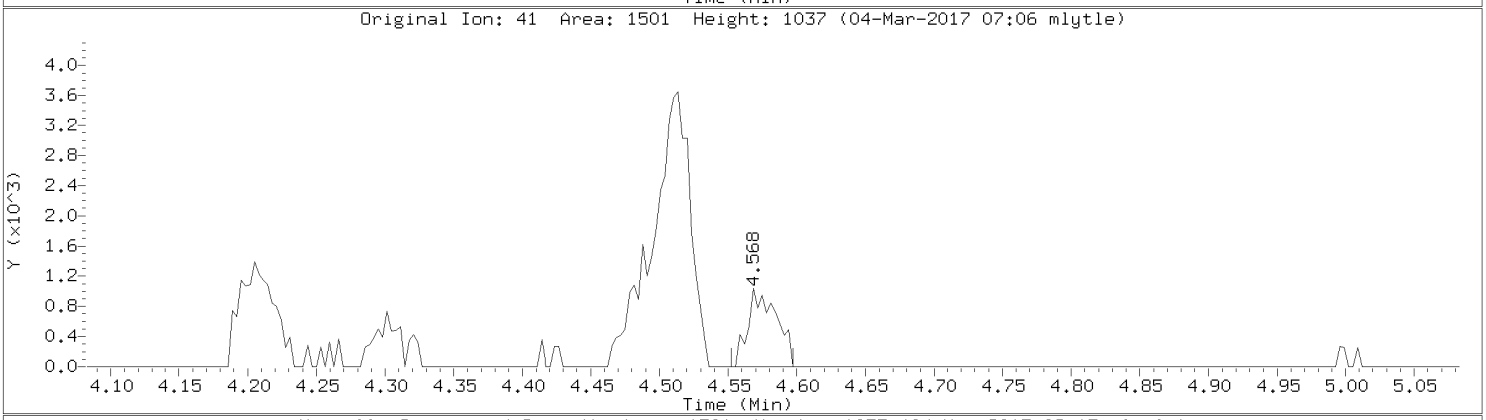


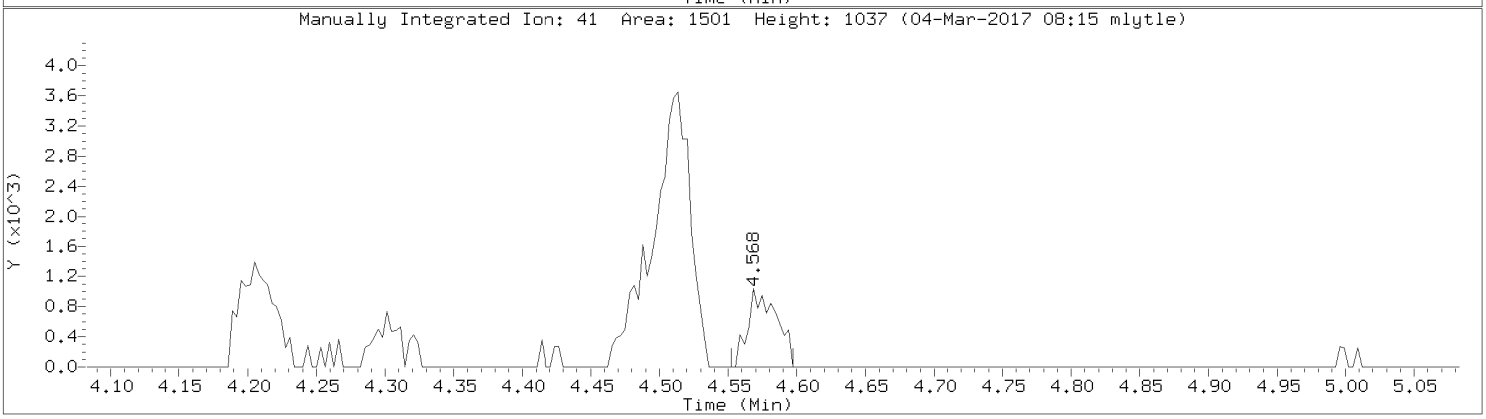
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007

Compound: n-Hexane
CAS Number: 110-54-3

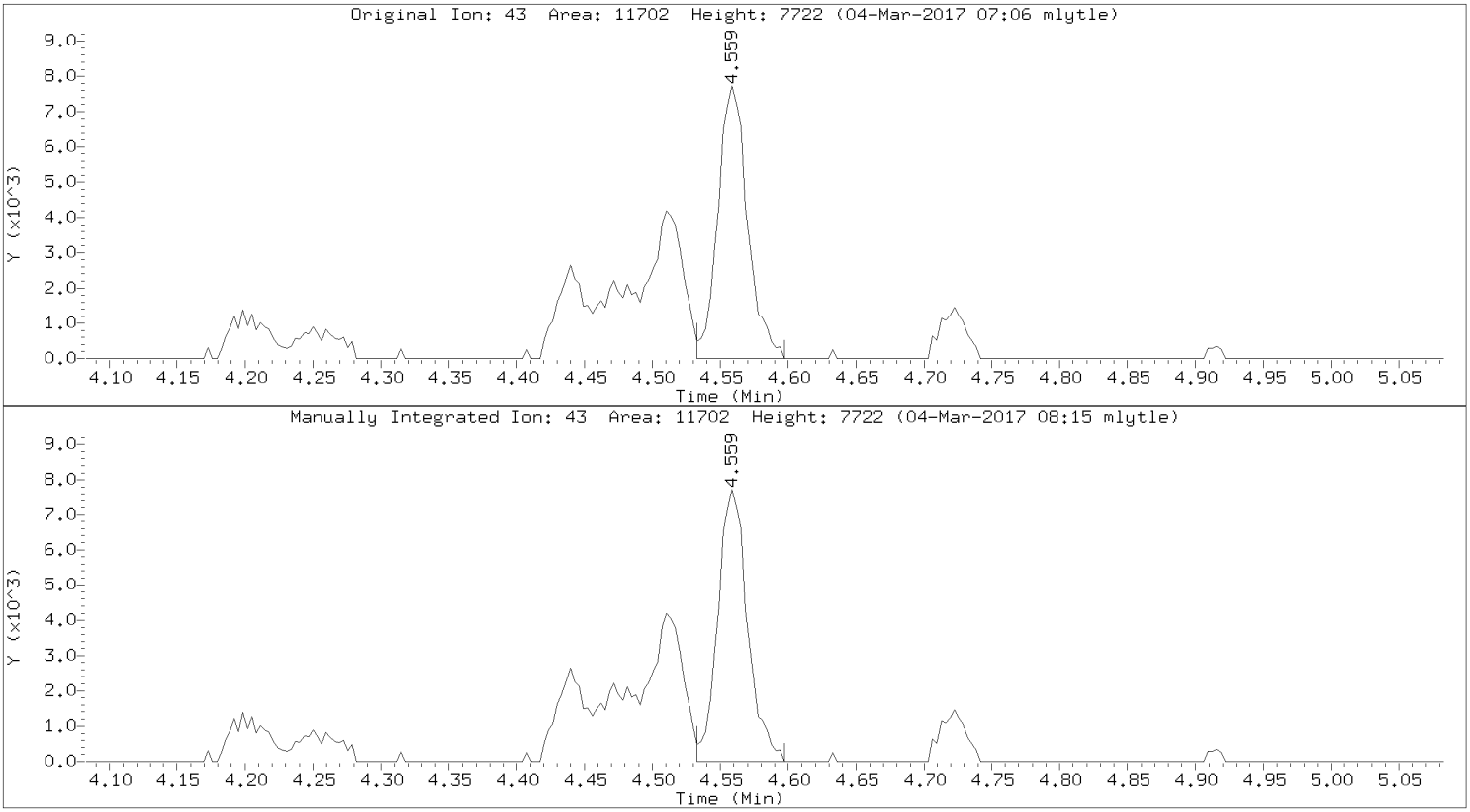






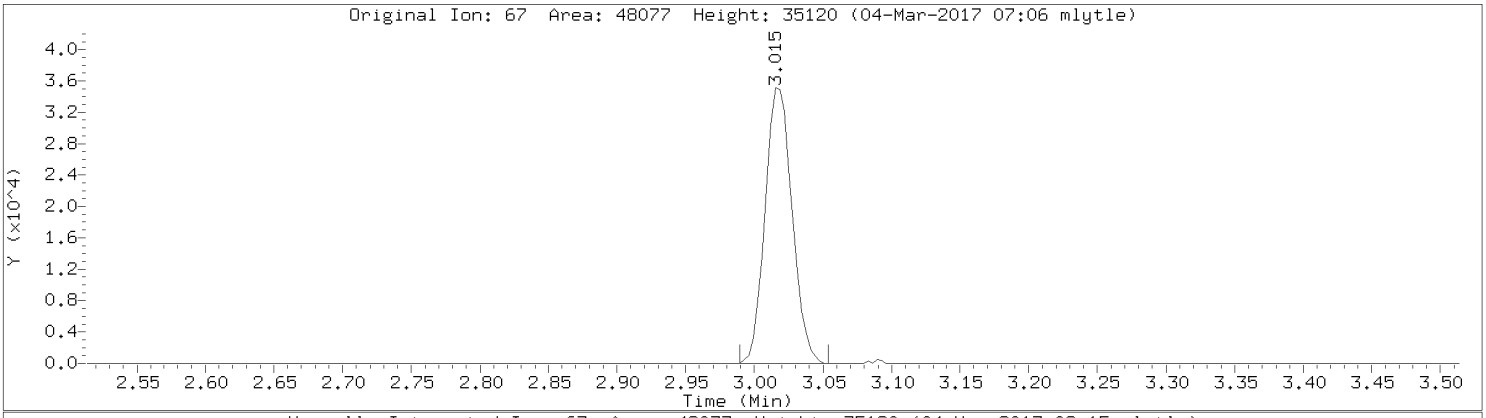


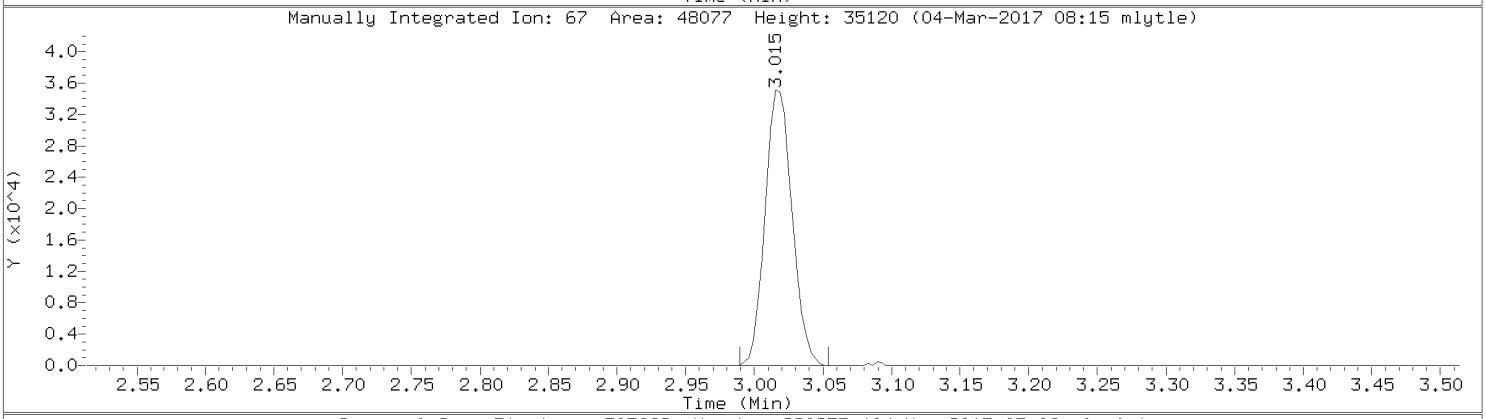
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007

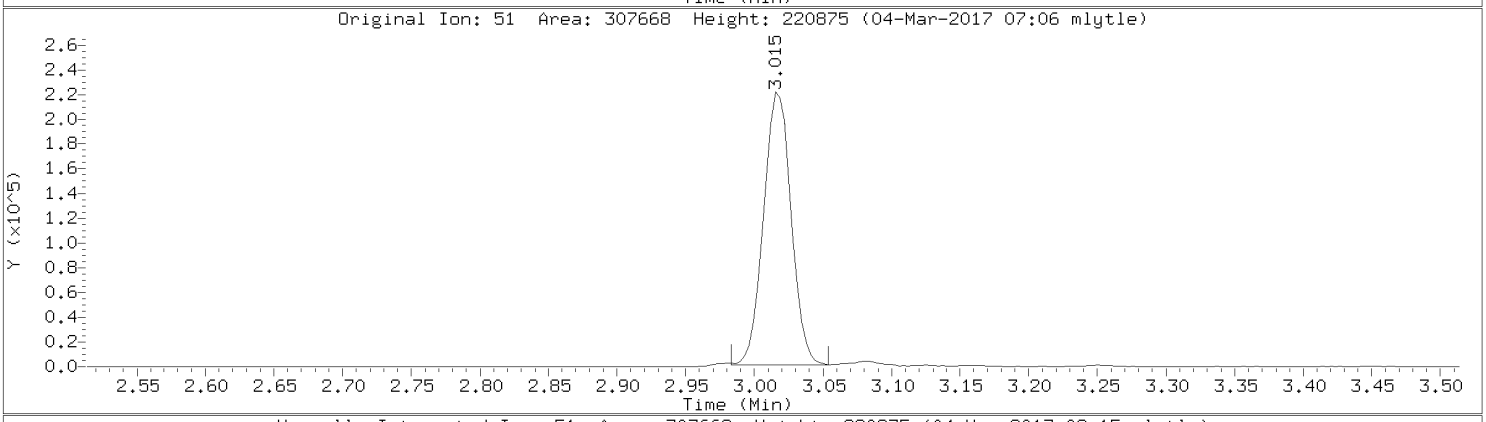


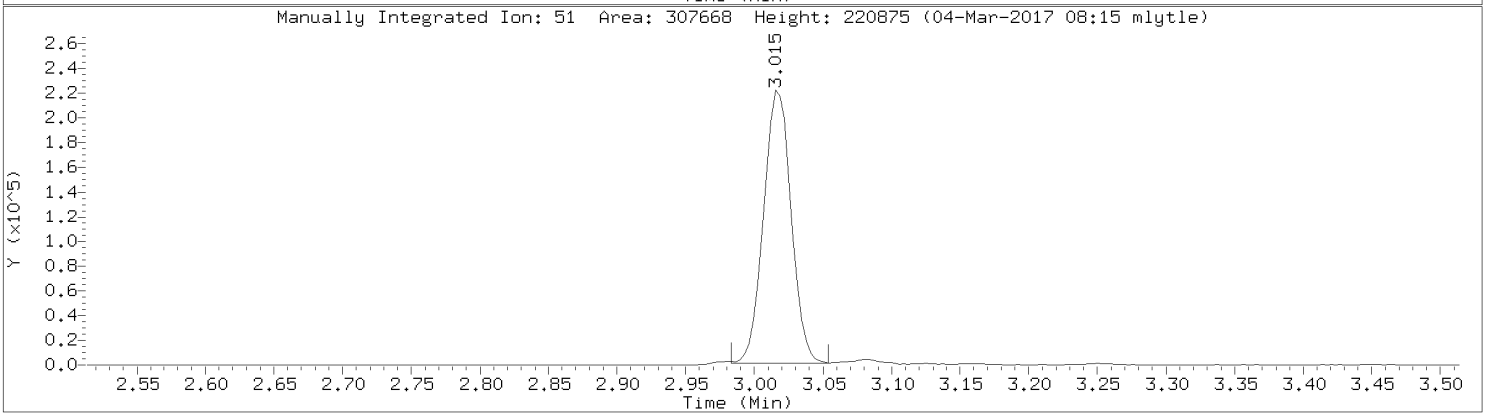
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

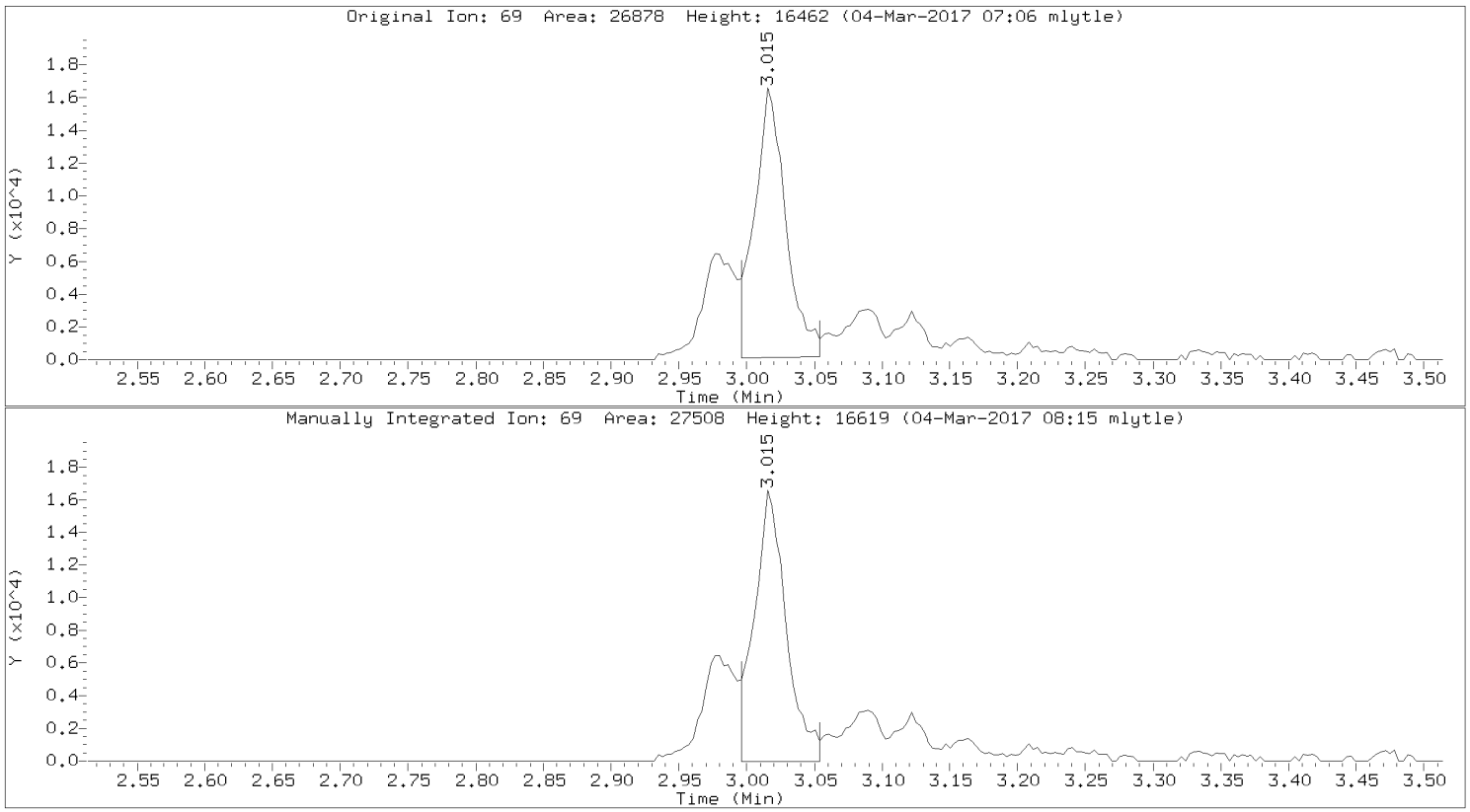






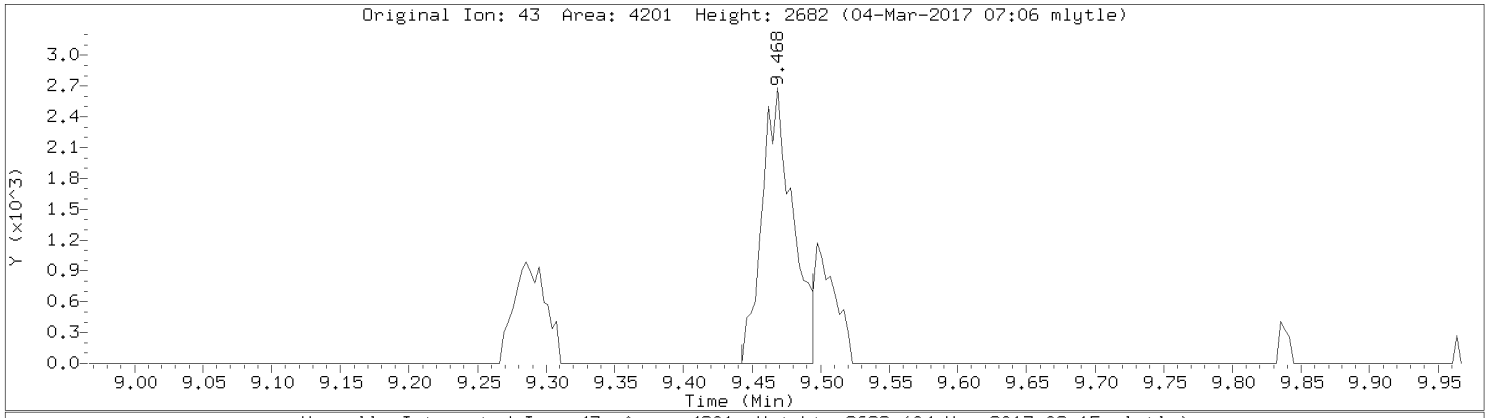


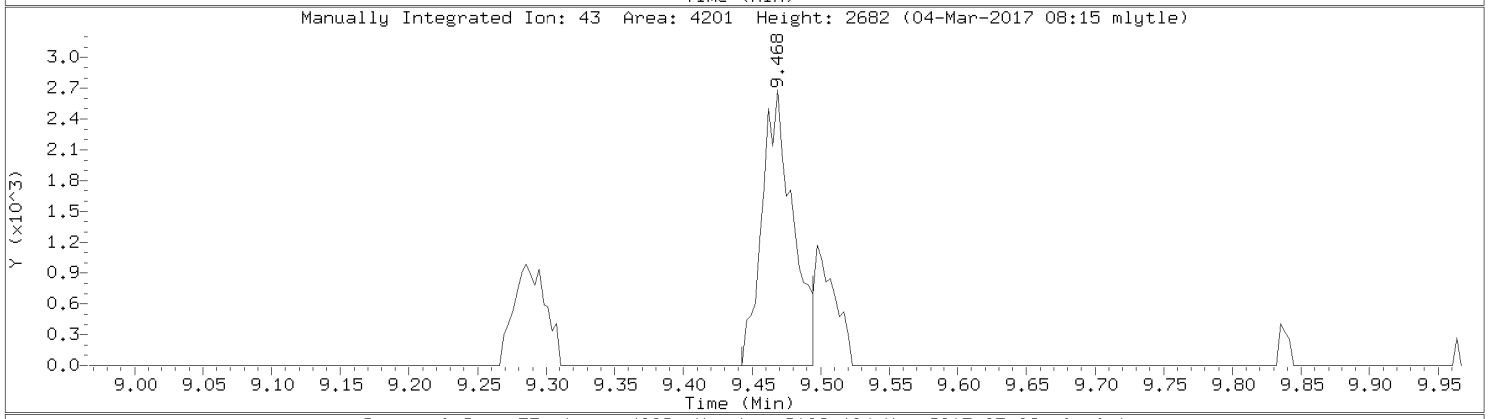
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007

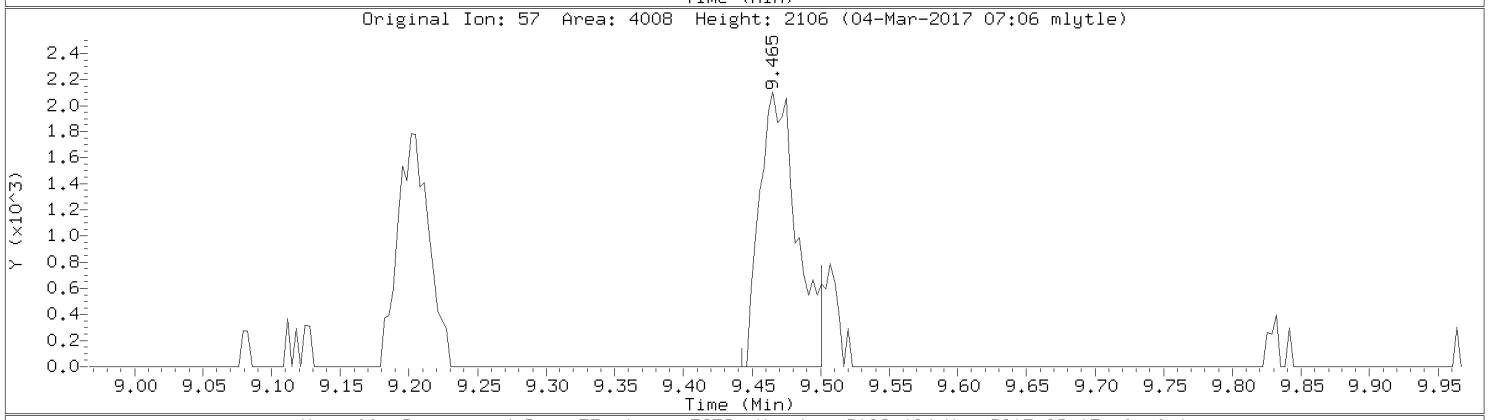


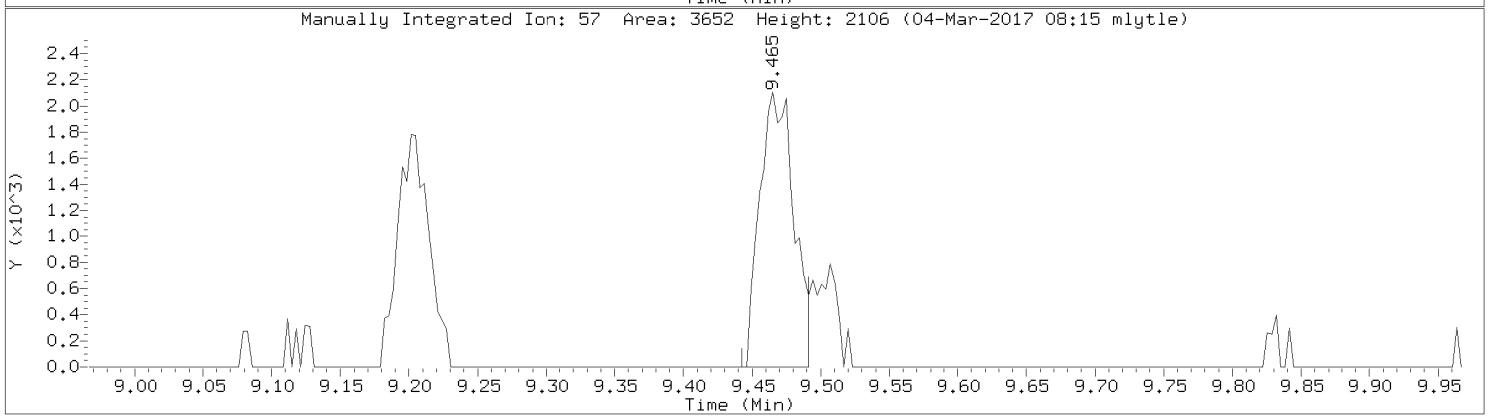
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007

Compound: n-Nonane
CAS Number: 111-84-2

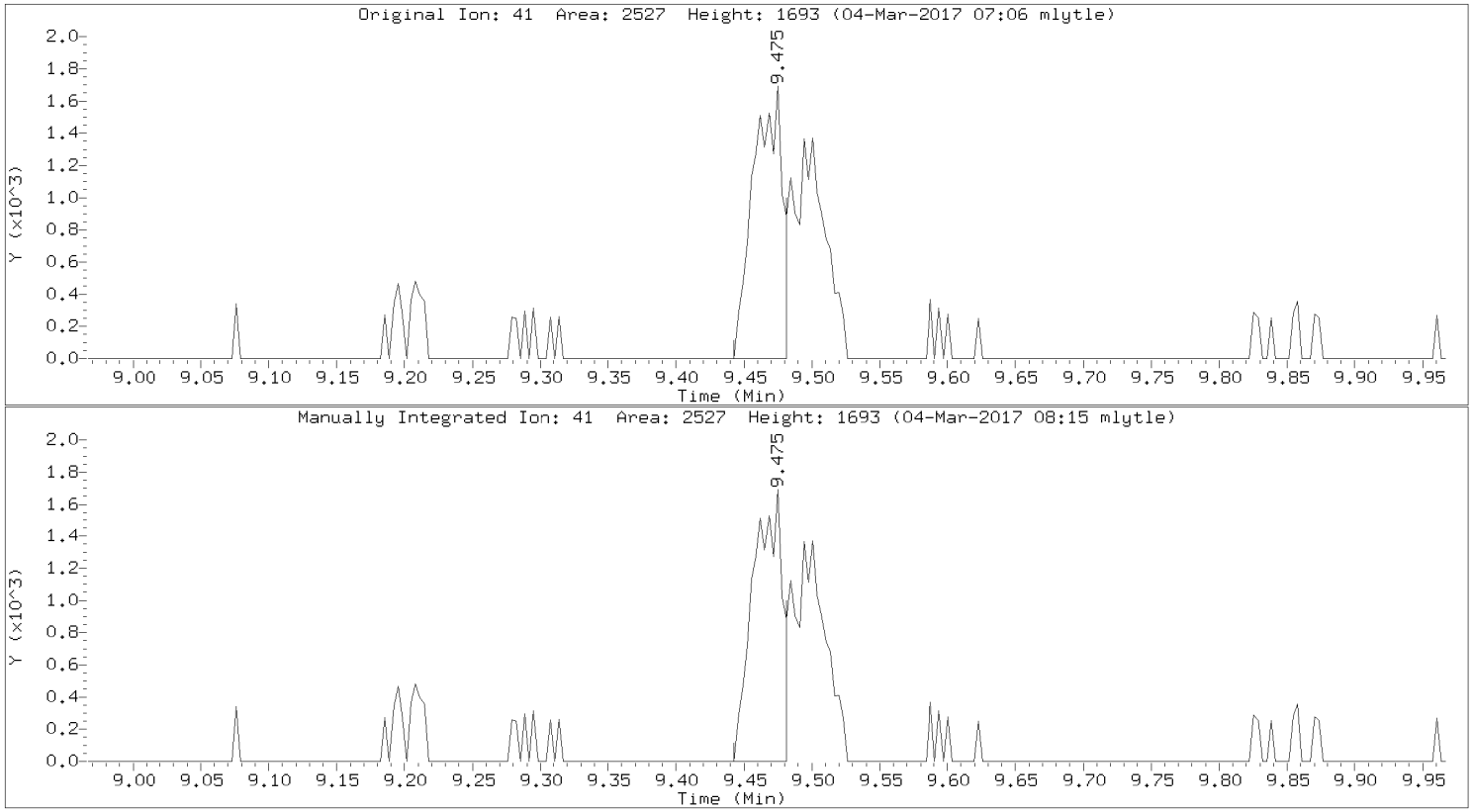








Data File: \\192.168.10.12\chem\10airB.i\030317.b/06225.D
Injection Date: 03-MAR-2017 20:01
Instrument: 10airB.i
Lab Sample ID: 10379929007



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_62_20170221 **Lab ID: 10379929007** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**3.2J**	ug/m3	4.4	0.42	1.75		03/03/17 20:01	67-63-0	
Styrene	**0.77J**	ug/m3	1.5	0.34	1.75		03/03/17 20:01	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 20:01	79-34-5	
Tetrachloroethene	**212**	ug/m3	1.2	0.49	1.75		03/03/17 20:01	127-18-4	
Toluene	**1.2J**	ug/m3	1.3	0.27	1.75		03/03/17 20:01	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 20:01	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/03/17 20:01	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 20:01	79-00-5	
Trichloroethene	**421**	ug/m3	0.96	0.48	1.75		03/03/17 20:01	79-01-6	
Trichloroethene	**456**	ug/m3	9.6	4.8	17.5		03/05/17 13:43	79-01-6	
Trichlorofluoromethane	**7.7**	ug/m3	2.0	0.23	1.75		03/03/17 20:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	**28.1**	ug/m3	2.8	0.53	1.75		03/03/17 20:01	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/03/17 20:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 20:01	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 20:01	75-01-4	
m&p-Xylene	**1.7J**	ug/m3	3.1	1.4	1.75		03/03/17 20:01	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/03/17 20:01	95-47-6	

Sample: VP-104_73_20170221 **Lab ID: 10379929008** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.0**	ug/m3	4.2	1.5	1.75		03/04/17 12:51	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/04/17 12:51	107-05-1	
Benzene	**0.30J**	ug/m3	0.57	0.21	1.75		03/04/17 12:51	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/04/17 12:51	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/04/17 12:51	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/04/17 12:51	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/04/17 12:51	106-99-0	
2-Butanone (MEK)	**2.0J**	ug/m3	5.2	0.40	1.75		03/04/17 12:51	78-93-3	
Carbon disulfide	**0.68J**	ug/m3	1.1	0.18	1.75		03/04/17 12:51	75-15-0	
Carbon tetrachloride	**0.95J**	ug/m3	1.1	0.34	1.75		03/04/17 12:51	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/04/17 12:51	108-90-7	
Chlorodifluoromethane	**189**	ug/m3	1.3	0.48	1.75		03/04/17 12:51	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/04/17 12:51	75-00-3	
Chloroform	**57.1**	ug/m3	0.87	0.33	1.75		03/04/17 12:51	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/04/17 12:51	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/04/17 12:51	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/04/17 12:51	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/04/17 12:51	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/04/17 12:51	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/04/17 12:51	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/04/17 12:51	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_73_20170221 **Lab ID: 10379929008** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/04/17 12:51	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/04/17 12:51	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.8	0.84	1.75		03/04/17 12:51	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/04/17 12:51	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/04/17 12:51	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/04/17 12:51	75-35-4	
cis-1,2-Dichloroethene	**93.1**	ug/m3	1.4	0.43	1.75		03/04/17 12:51	156-59-2	
trans-1,2-Dichloroethene	**1.4**	ug/m3	1.4	0.67	1.75		03/04/17 12:51	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/04/17 12:51	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/04/17 12:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/04/17 12:51	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/04/17 12:51	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/04/17 12:51	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/04/17 12:51	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/04/17 12:51	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/04/17 12:51	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/04/17 12:51	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/04/17 12:51	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/04/17 12:51	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/04/17 12:51	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/04/17 12:51	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/04/17 12:51	108-87-2	
Methylene Chloride	**2.0J**	ug/m3	6.2	0.95	1.75		03/04/17 12:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.9J**	ug/m3	7.3	0.38	1.75		03/04/17 12:51	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/04/17 12:51	1634-04-4	
2-Propanol	**0.84J**	ug/m3	4.4	0.42	1.75		03/04/17 12:51	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/04/17 12:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/04/17 12:51	79-34-5	
Tetrachloroethene	**483**	ug/m3	1.2	0.49	1.75		03/04/17 12:51	127-18-4	
Tetrachloroethene	**611**	ug/m3	48.3	9.7	35		03/05/17 21:26	127-18-4	
Toluene	**1.5**	ug/m3	1.3	0.27	1.75		03/04/17 12:51	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/04/17 12:51	120-82-1	
1,1,1-Trichloroethane	**1.7J**	ug/m3	1.9	0.43	1.75		03/04/17 12:51	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/04/17 12:51	79-00-5	
Trichloroethene	**809**	ug/m3	0.96	0.48	1.75		03/04/17 12:51	79-01-6	
Trichloroethene	**1170**	ug/m3	19.2	9.7	35		03/05/17 21:26	79-01-6	
Trichlorofluoromethane	**17.4**	ug/m3	2.0	0.23	1.75		03/04/17 12:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	**64.3**	ug/m3	2.8	0.53	1.75		03/04/17 12:51	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/04/17 12:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/04/17 12:51	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/04/17 12:51	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/04/17 12:51	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/04/17 12:51	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06430.D
Report Date: 06-Mar-2017 14:14

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06430.D
Lab Smp Id: 10379929008
Inj Date : 05-MAR-2017 21:26
Operator : CH1 Inst ID: 10air7.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 30
Dil Factor: 35.00000
Integrator: HP RTE Compound Sublist: TCE_PCE.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	35.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$	32 Hexane-d14(S)	66	3.517	3.520	(0.782)	206139	12.3505	12.4
	44 Carbon tetrachloride	117	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	4.497	4.504	(1.000)	611505	10.0000	
	51 Trichloroethene	130	4.828	4.835	(1.074)	176715	6.12497	214
$	59 Toluene-d8 (S)	98	5.828	5.835	(1.296)	500822	9.75644	9.76
	66 Tetrachloroethene	166	6.680	6.683	(0.915)	95382	2.53191	88.6
*	67 Chlorobenzene - d5	117	7.304	7.310	(1.000)	379949	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	10.481	10.487	(1.435)	104440	6.71835	6.72(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06430.D
Report Date: 06-Mar-2017 14:14

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06430.D
Lab Smp Id: 10379929008
Analysis Type: VOA
Quant Type: ISTD
Operator: CH1
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info: 27836

Calibration Date: 05-MAR-2017
Calibration Time: 10:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

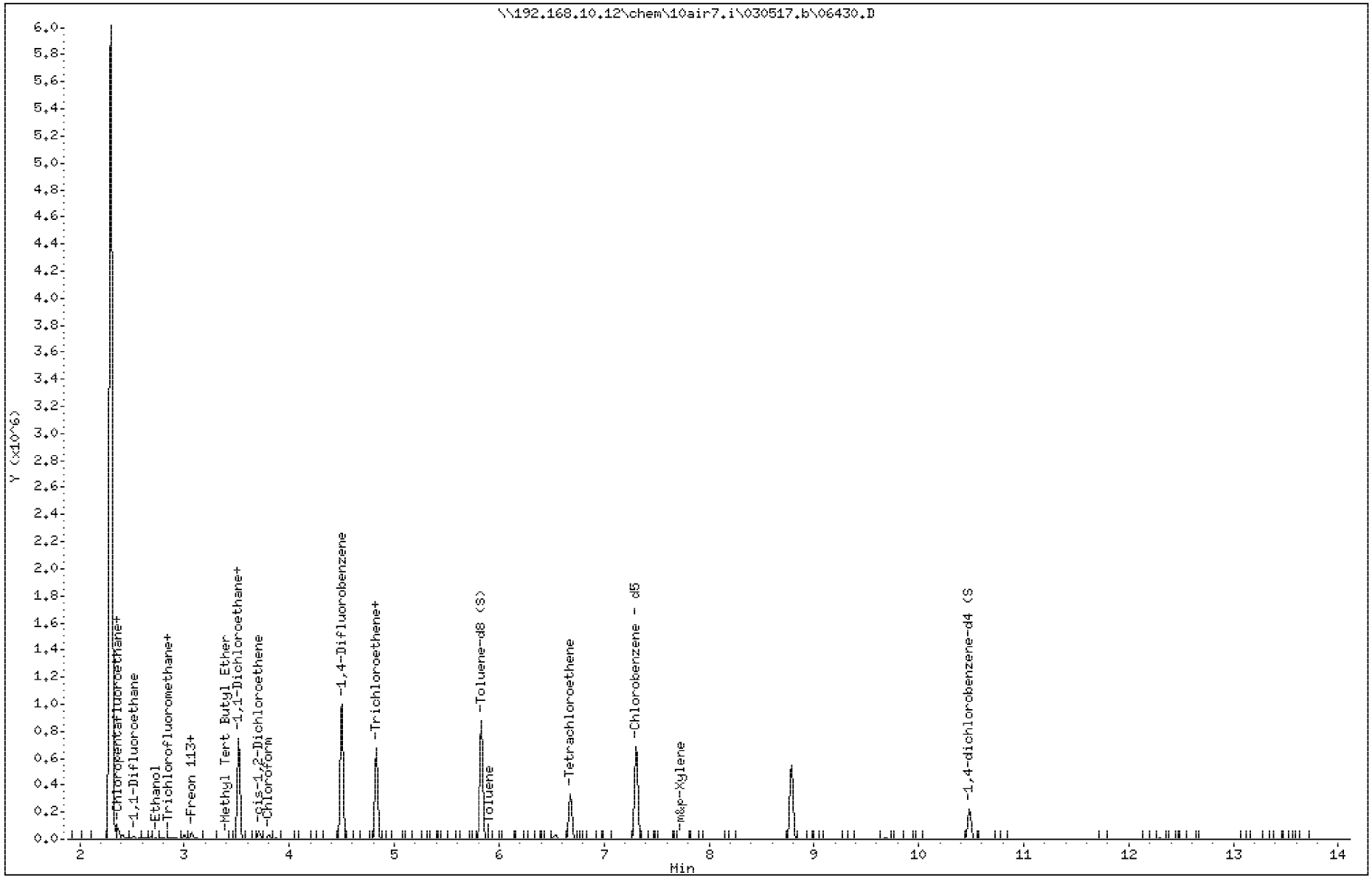
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	611505	-26.85
67 Chlorobenzene - d	539522	323713	755331	379949	-29.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.50	4.17	4.83	4.50	-0.14
67 Chlorobenzene - d	7.31	6.98	7.64	7.30	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06430.D
Date : 05-MAR-2017 21:26
Client ID:
Sample Info:

Instrument: 10air7.i
Operator: CH1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06430.D

Date : 05-MAR-2017 21:26

Client ID:

Instrument: 10air7.i

Sample Info:

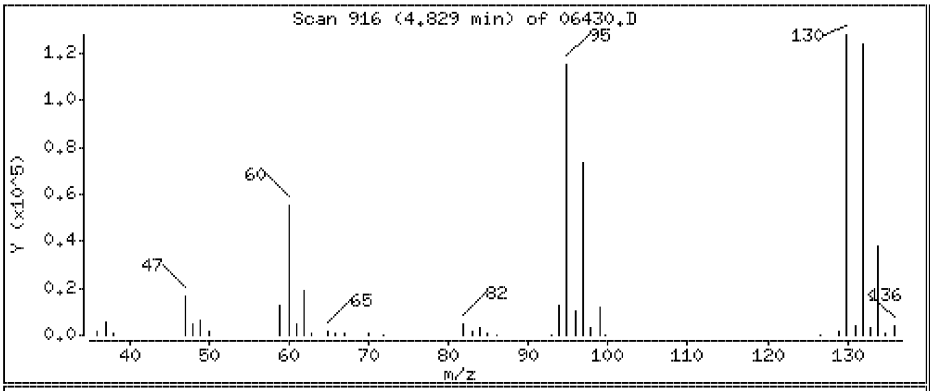
Operator: CH1

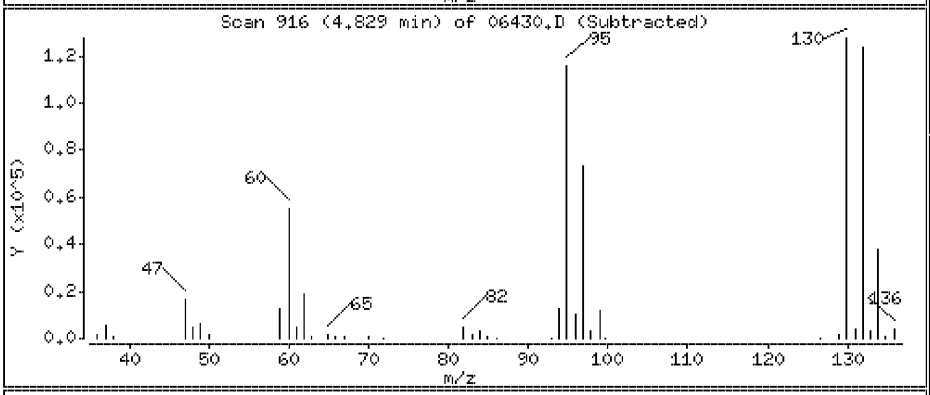
Column phase: J&W DB-5

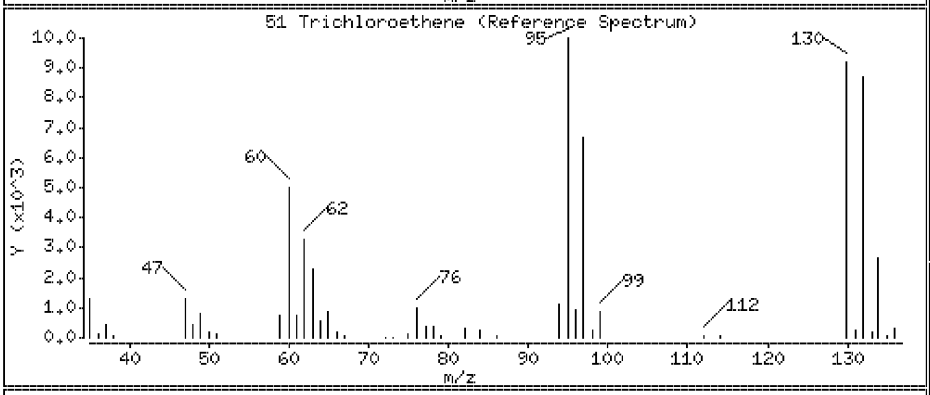
Column diameter: 0.32

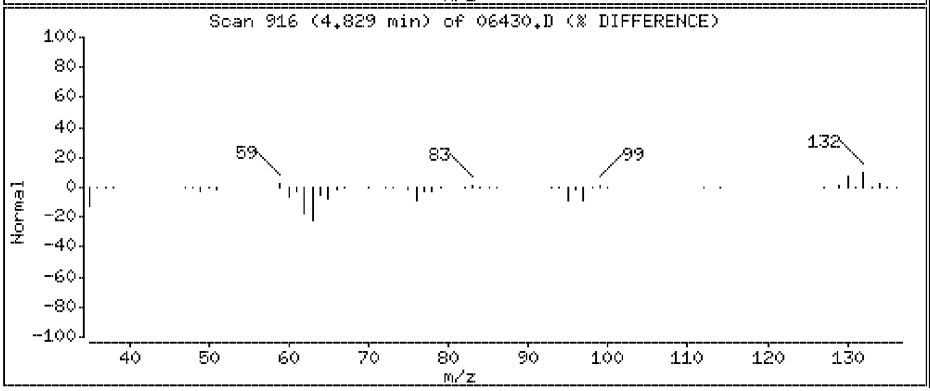
51 Trichloroethene

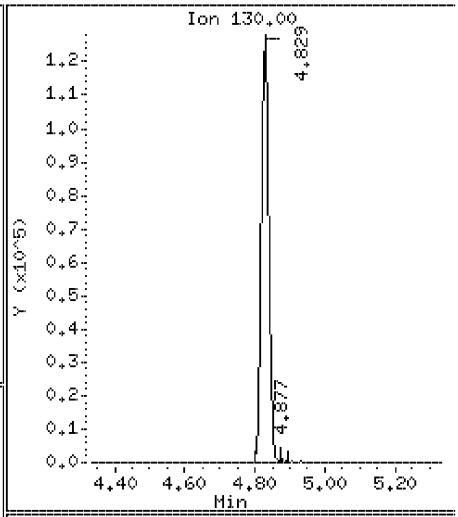
Concentration: 214 ppbv

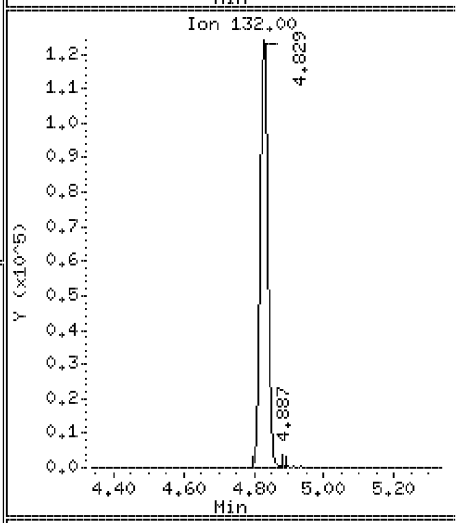


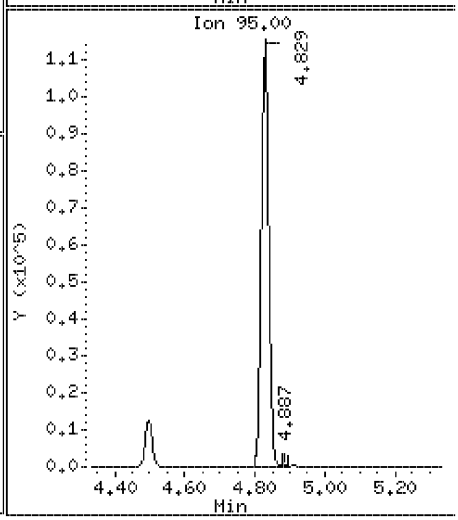












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06430.D

Date : 05-MAR-2017 21:26

Client ID:

Instrument: 10air7.i

Sample Info:

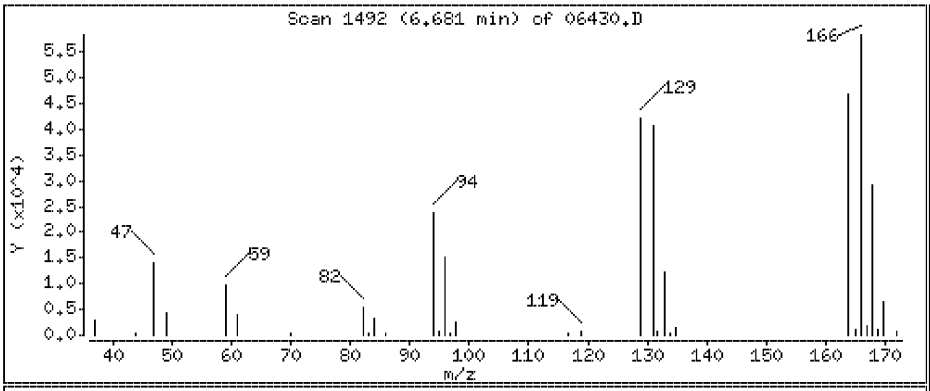
Operator: CH1

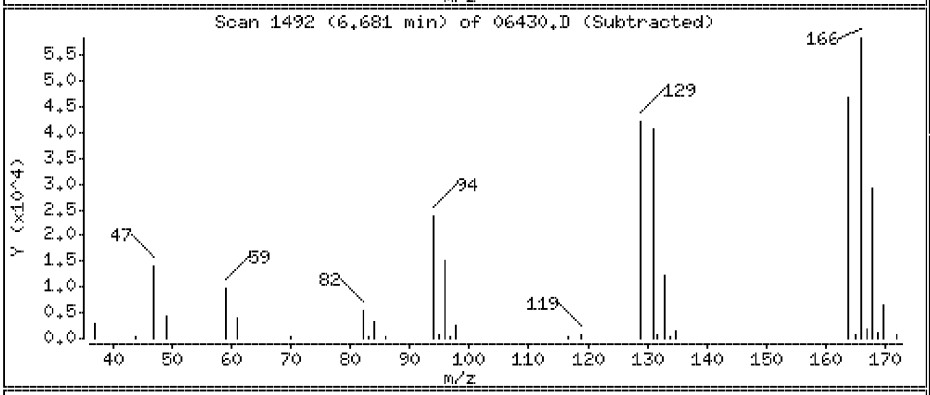
Column phase: J&W DB-5

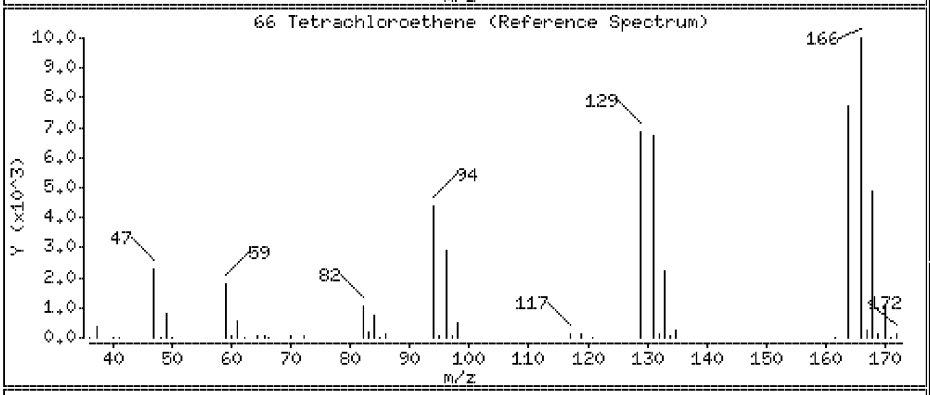
Column diameter: 0.32

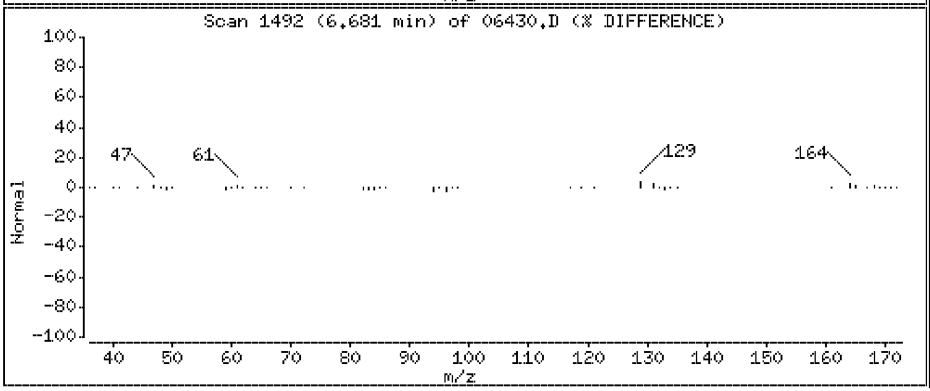
66 Tetrachloroethene

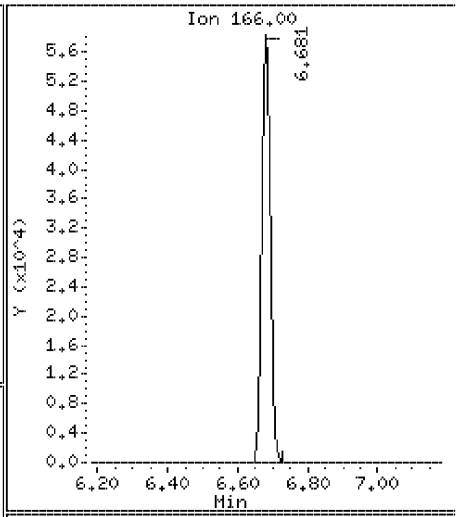
Concentration: 88.6 ppbv

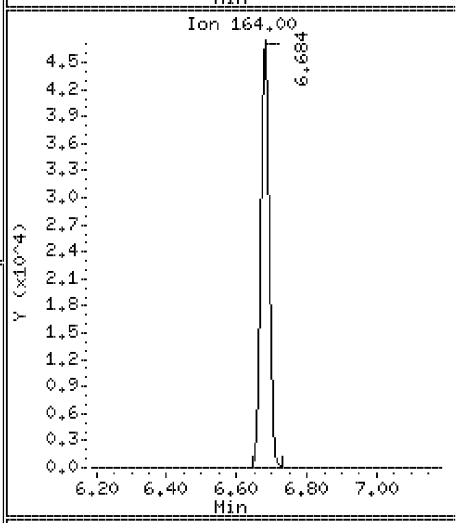


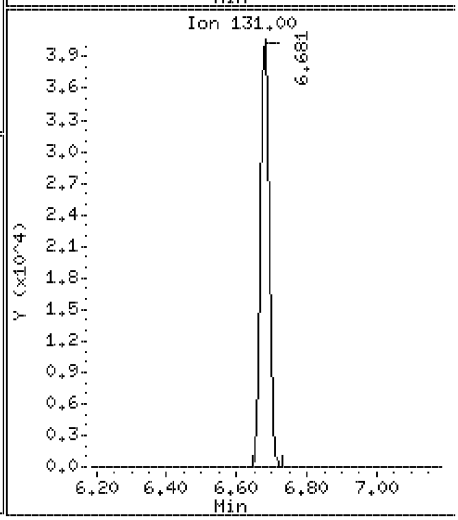












Data File: \\192.168.10.12\chem\10air7.i\030517.b/06430.D
Injection Date: 05-MAR-2017 21:26
Instrument: 10air7.i
Lab Sample ID: 10379929008
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D
Report Date: 05-Mar-2017 14:46

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06313.D
Lab Smp Id: 10379929008
Inj Date : 04-MAR-2017 12:51
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 13
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.031	3.028	(0.540)	109019	29.9944	52.5	(Q)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.063	3.060	(0.546)	11931	0.24703	0.432	(M)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.561	3.545	(0.635)	4833	1.01407	1.77	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.664	3.674	(0.653)	62049	1.74490	3.05	
17	Acrolein	56	3.690	3.684	(0.658)	1541	0.51417	0.900	
18	Acetone	43	3.732	3.722	(0.665)	53444	2.59688	4.54	
19	Isopropyl Alcohol	45	3.787	3.767	(0.675)	4056	0.19325	0.338	(Q)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.947	3.951	(0.704)	126738	4.71965	8.26	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D
Report Date: 05-Mar-2017 14:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.992	4.005	(0.712)	4727	0.32543	0.569	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	4.108	4.127	(0.732)	3358	0.12275	0.215	
	28 trans-1,2-dichloroethene	96	4.259	4.275	(0.759)	2379	0.20502	0.359(Q)	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	4.446	4.391	(0.793)	5753	0.34792	0.609	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.487	4.491	(0.800)	401001	9.71727	9.72	
	33 Methyl Ethyl Ketone	72	4.568	4.555	(0.814)	1931	0.38547	0.675(Q)	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.709	4.725	(0.840)	171131	13.1997	23.1(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.822	4.841	(0.860)	176702	6.57582	11.5	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.227	5.233	(0.932)	5480	0.17335	0.303	
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.465	5.468	(0.974)	2210	0.05283	0.0925	
	44 Carbon tetrachloride	117	5.475	5.484	(0.976)	2687	0.08505	0.149	
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.610	5.613	(1.000)	1297074	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.986	5.989	(1.067)	1844824	84.6511	148(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	6.542	6.529	(1.166)	8375	0.26250	0.459	
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1100460	9.47923	9.48	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.153	7.153	(1.275)	11718	0.22368	0.391	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.584	(0.875)	5714	0.19823	0.347(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.989	7.986	(0.924)	1171022	40.0172	70.0(A)	
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	842729	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D
Report Date: 05-Mar-2017 14:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	11.378	11.378	(2.028)	1468	0.28026	0.490(QM)
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	471112	10.1482	10.1
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	14.175	14.156	(1.640)	2955	0.42457	0.743(M)
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D
Report Date: 05-Mar-2017 14:46

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06313.D
Lab Smp Id: 10379929008
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1297074	-8.28
67 Chlorobenzene - d	951026	570616	1331436	842729	-11.39

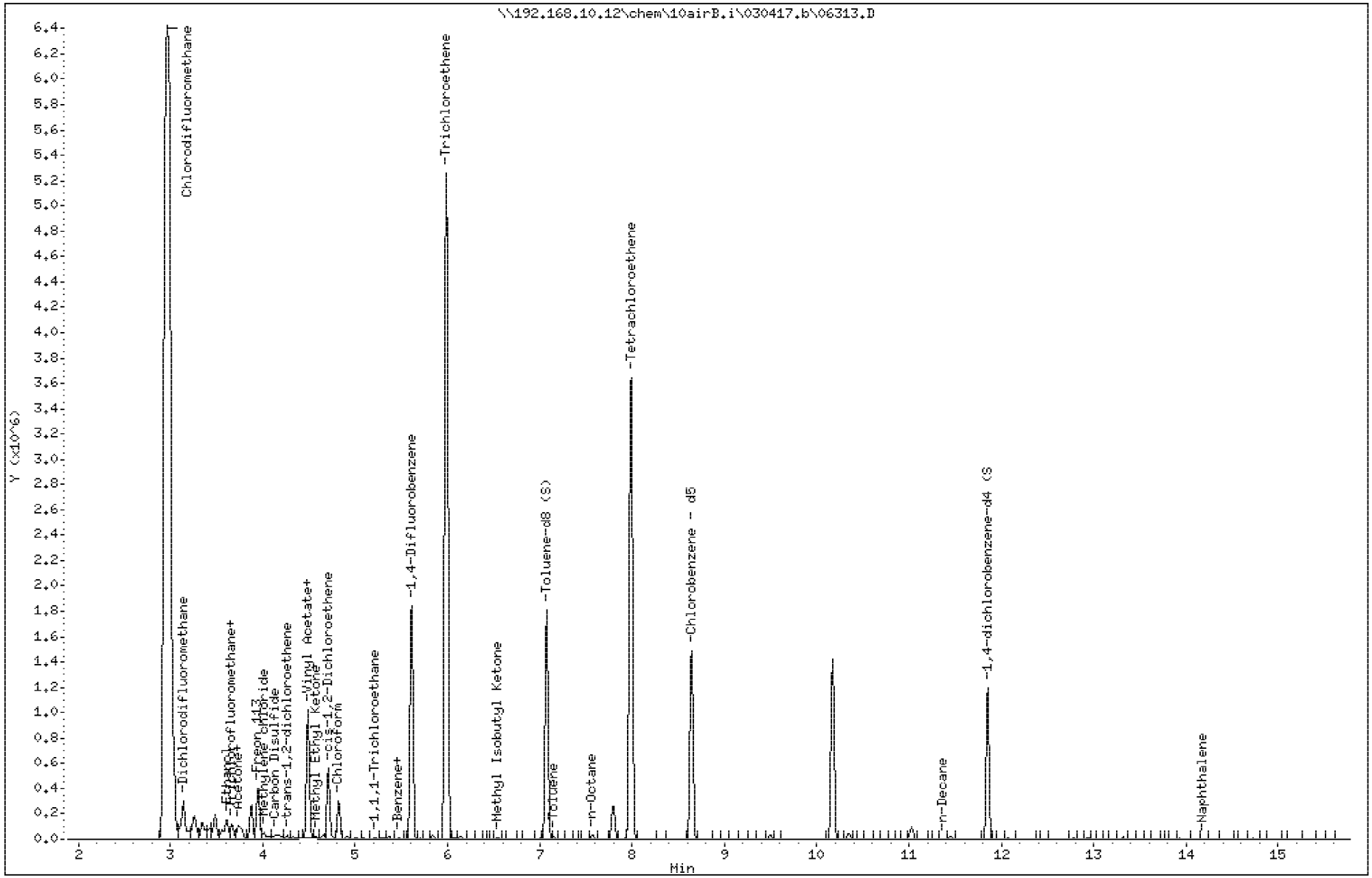
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D
Date : 04-MAR-2017 12:51
Client ID:
Sample Info:

Column phase: J&W DB-5

Instrument: 10airB.i
Operator: MJL
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

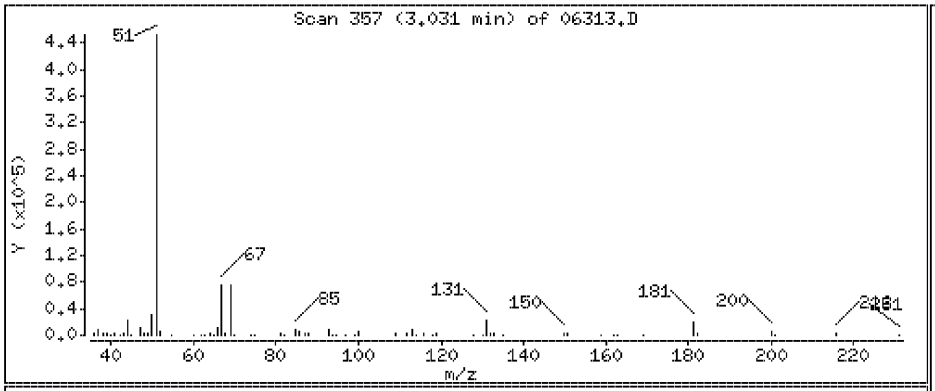
Operator: MJL

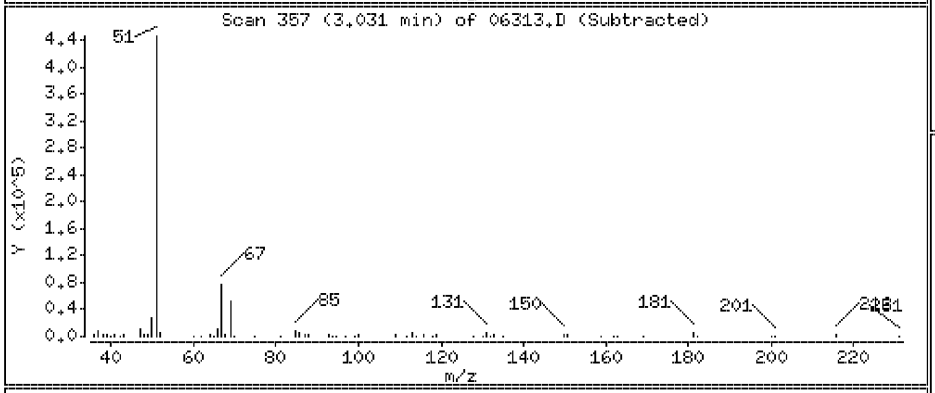
Column phase: J&W DB-5

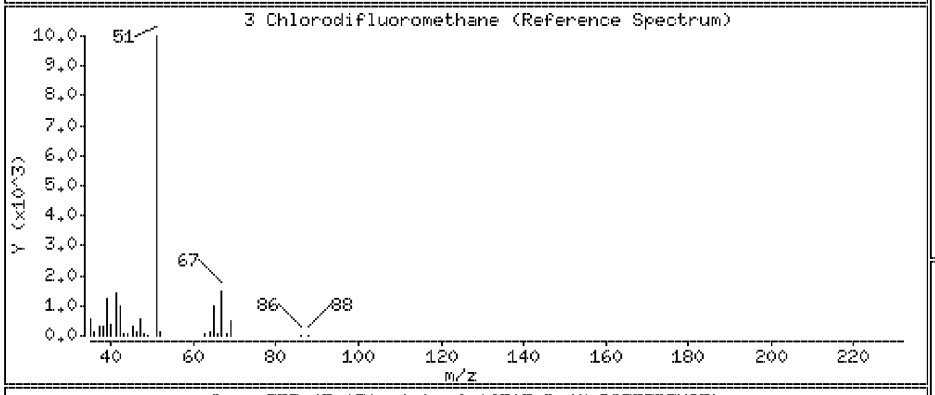
Column diameter: 0.32

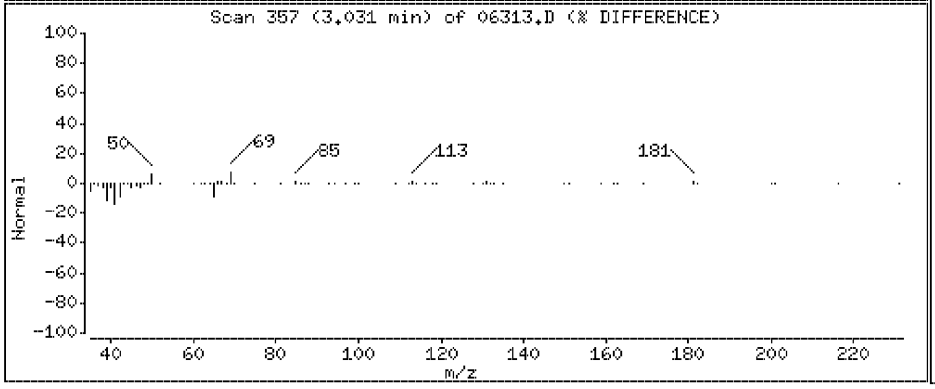
3 Chlorodifluoromethane

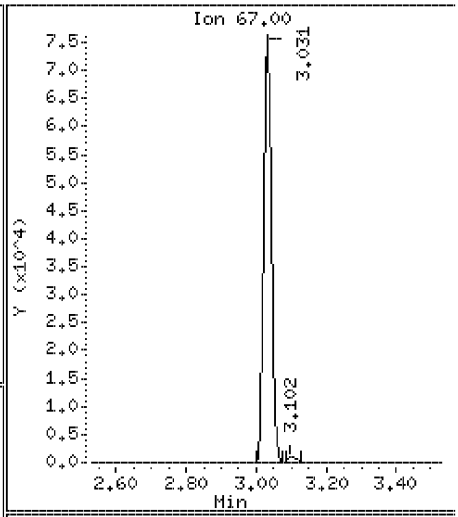
Concentration: 52.5 ppbv

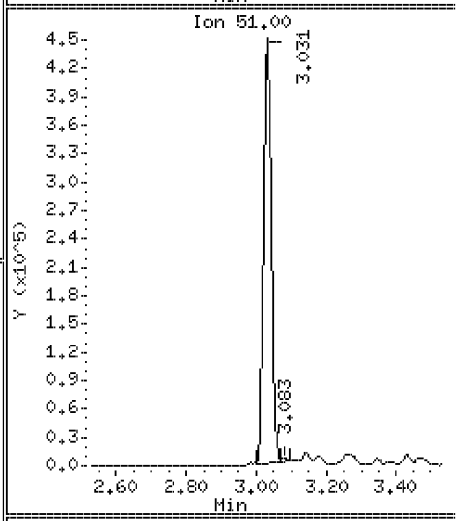


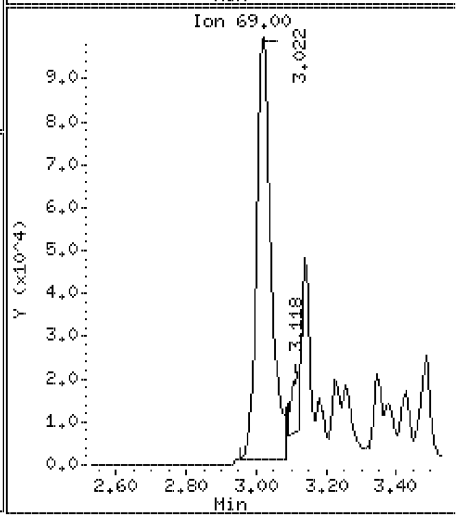












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

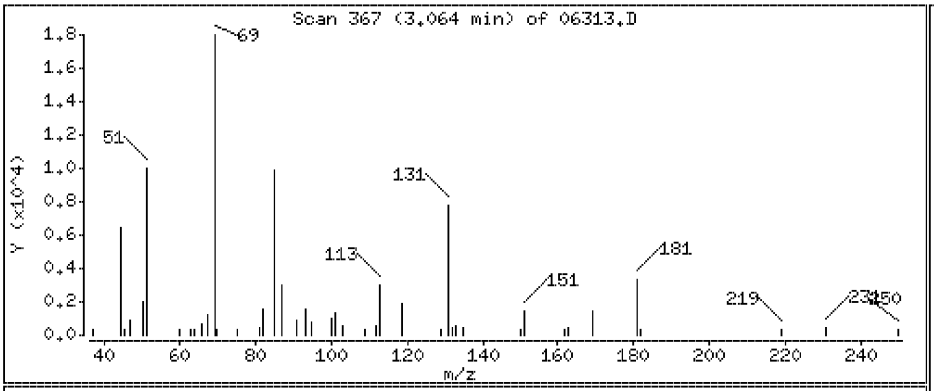
Operator: MJL

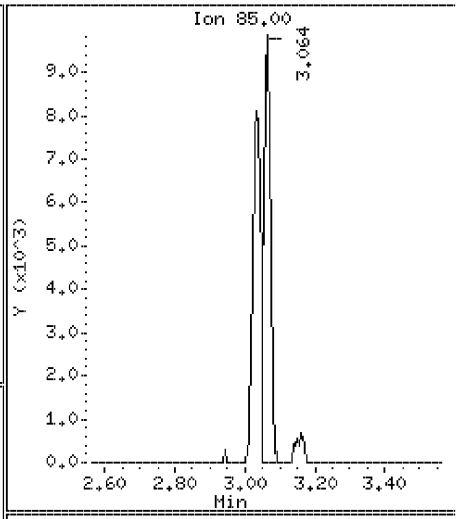
Column phase: J&W DB-5

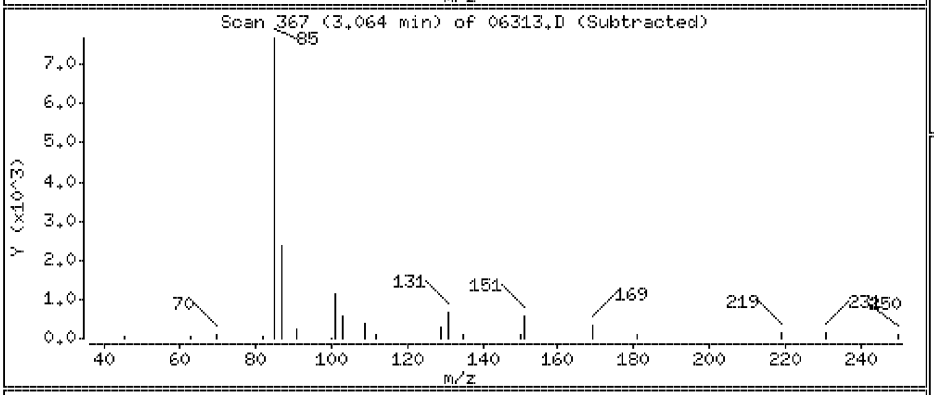
Column diameter: 0.32

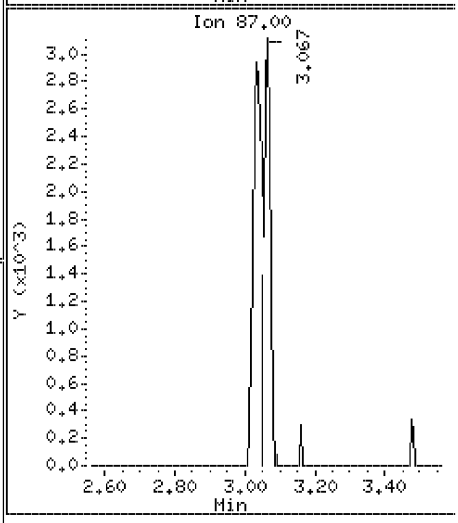
5 Dichlorodifluoromethane

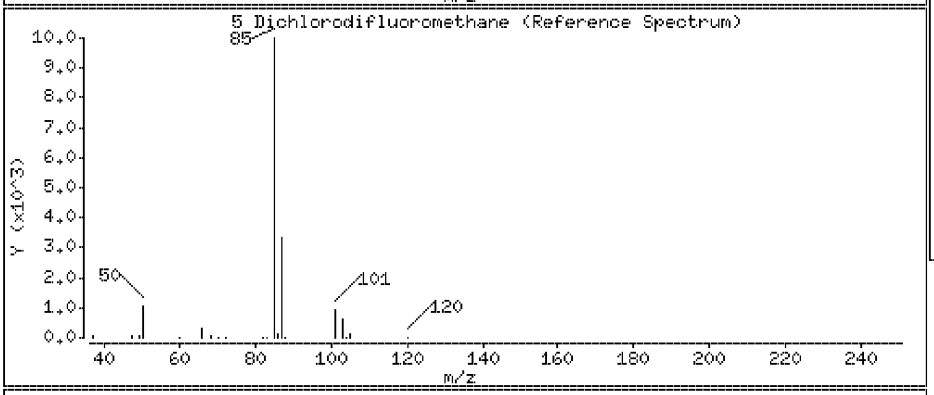
Concentration: 0.432 ppbv

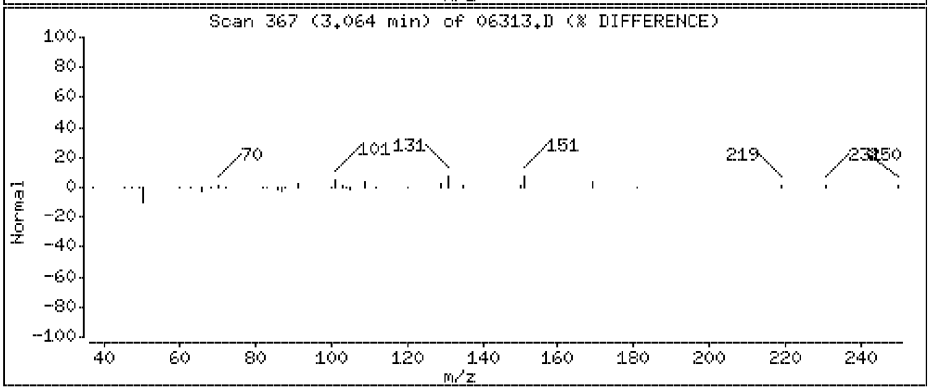












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

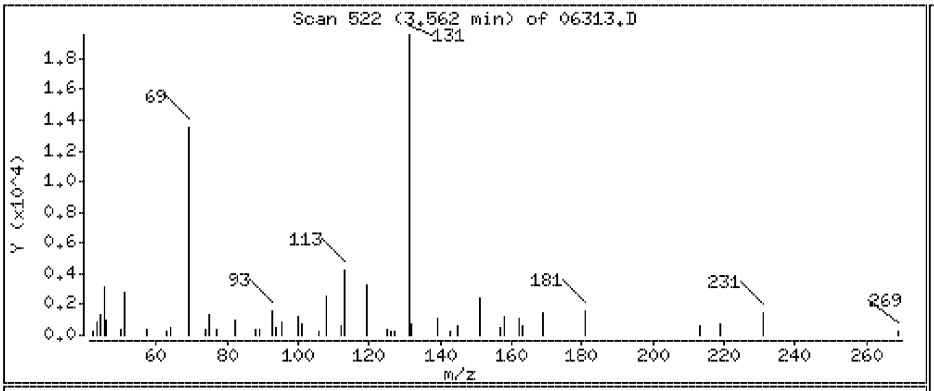
Operator: MJL

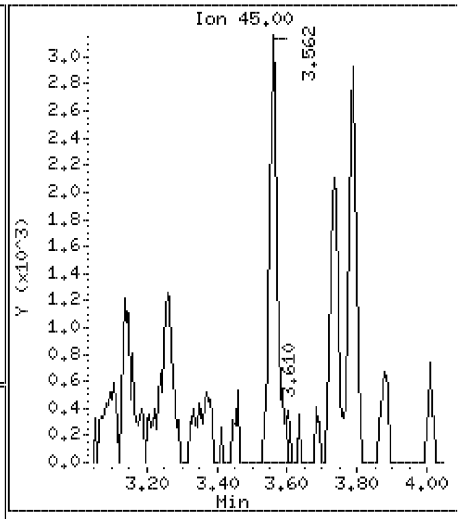
Column phase: J&W DB-5

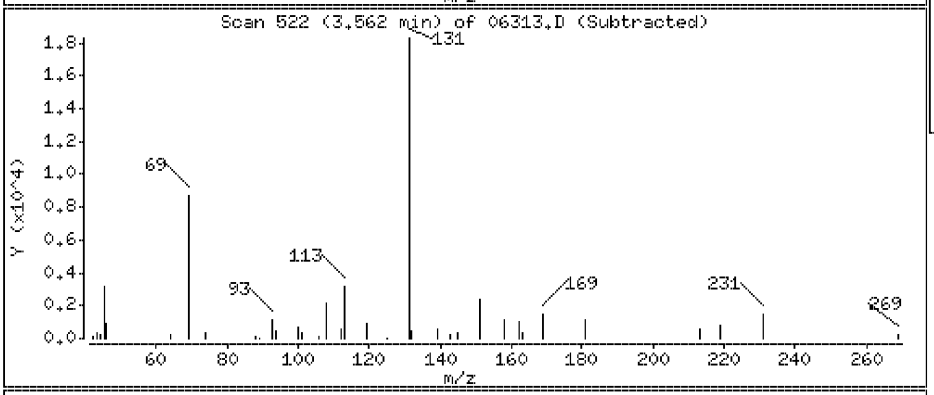
Column diameter: 0.32

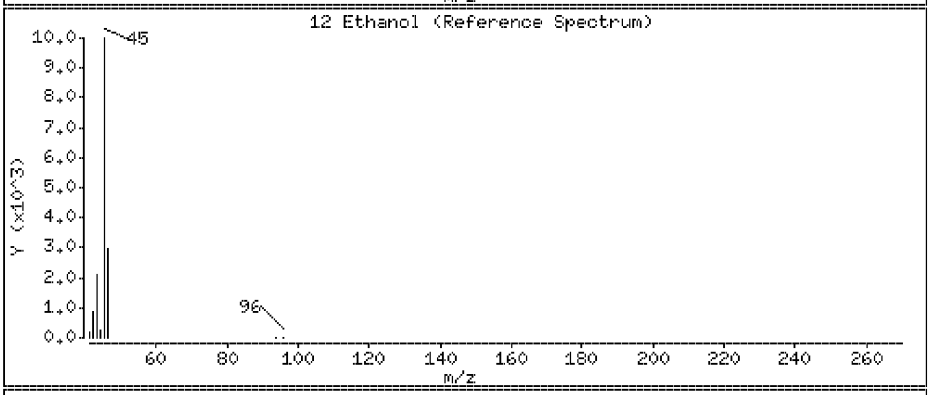
12 Ethanol

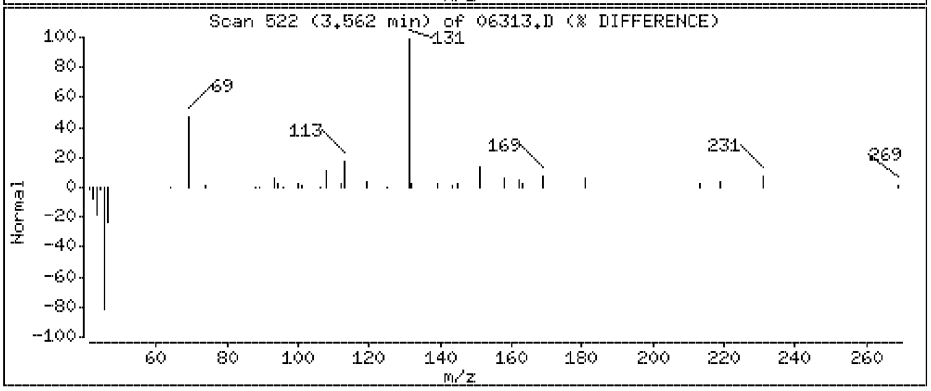
Concentration: 1.77 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

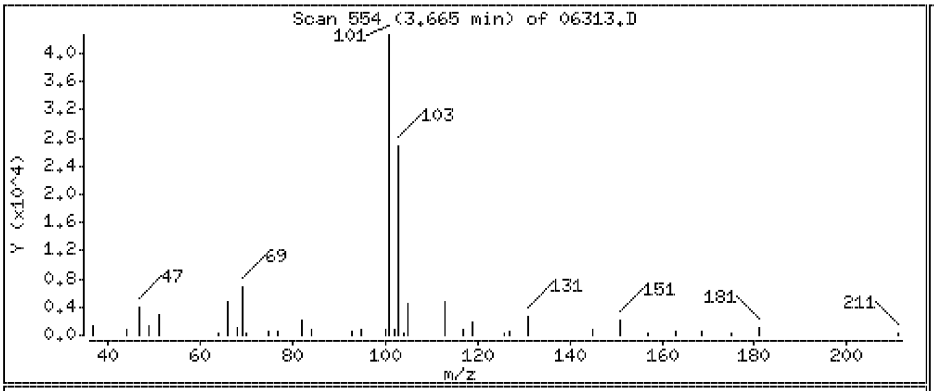
Operator: MJL

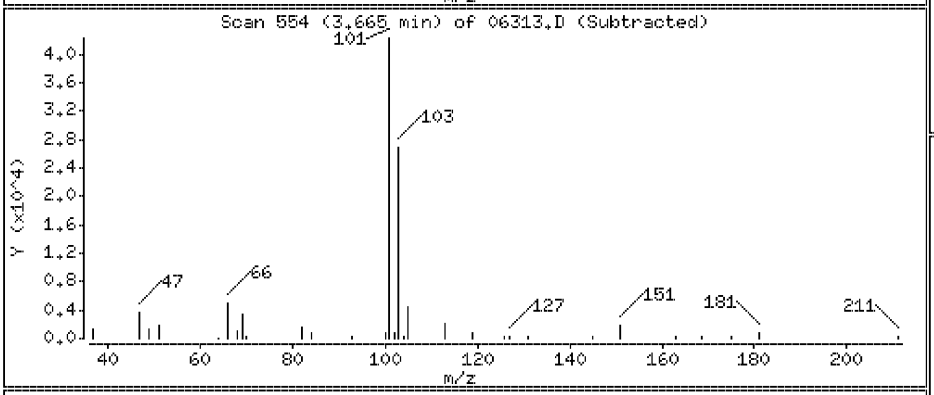
Column phase: J&W DB-5

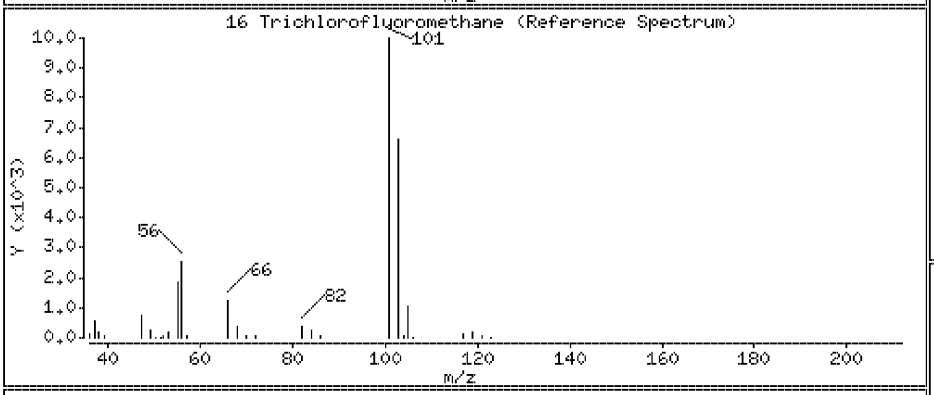
Column diameter: 0.32

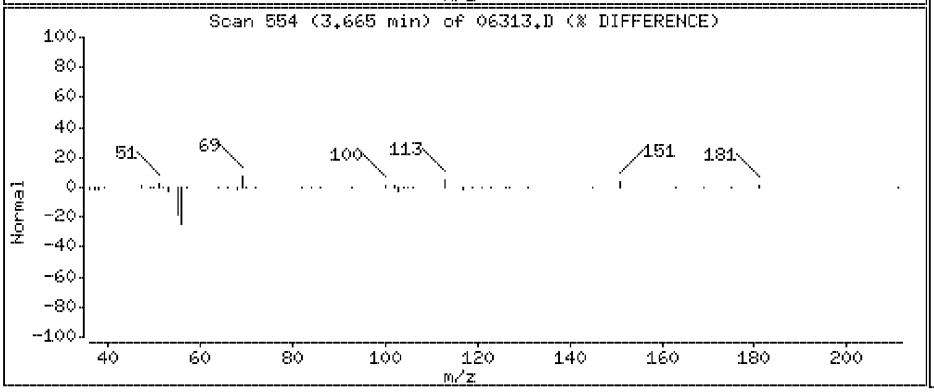
16 Trichlorofluoromethane

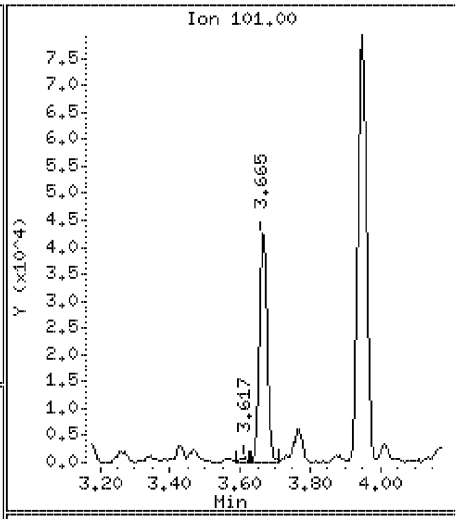
Concentration: 3.05 ppbv

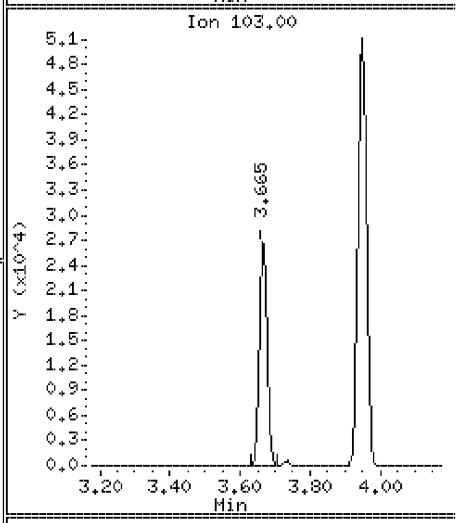


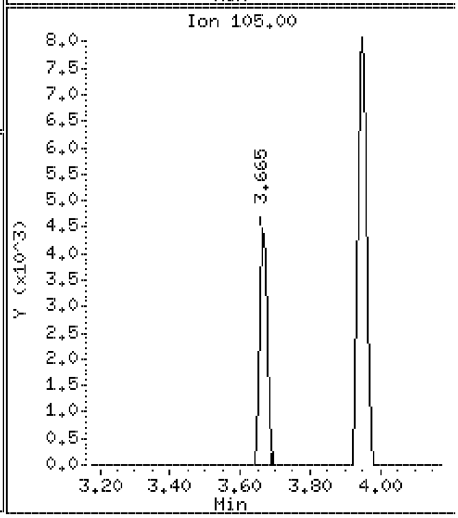












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

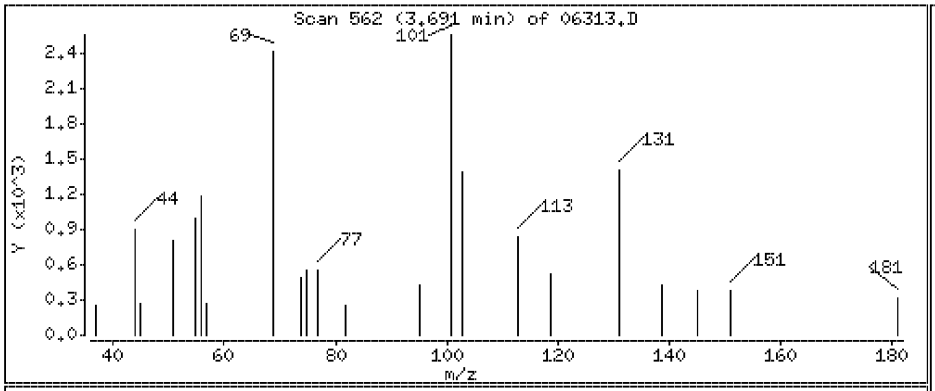
Operator: MJL

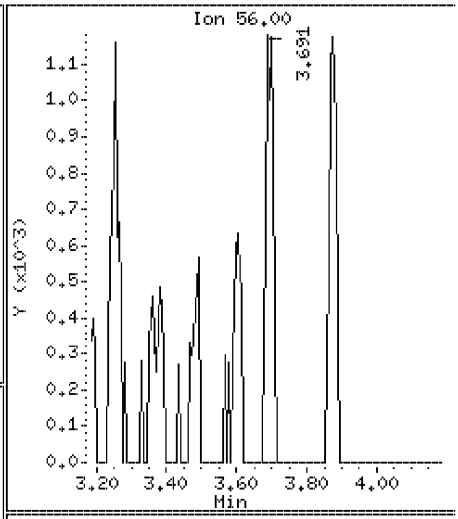
Column phase: J&W DB-5

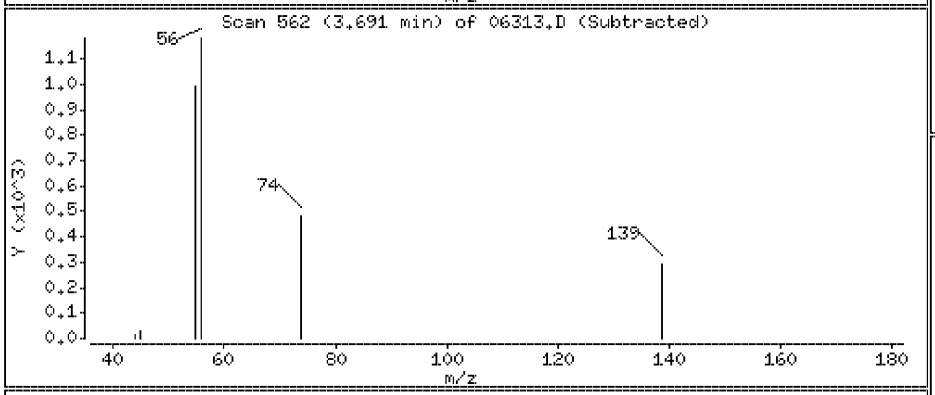
Column diameter: 0.32

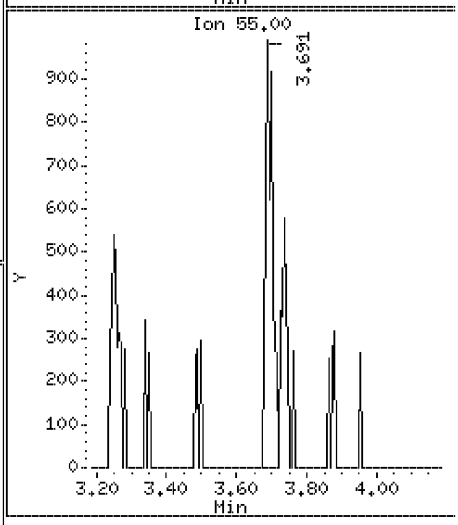
17 Acrolein

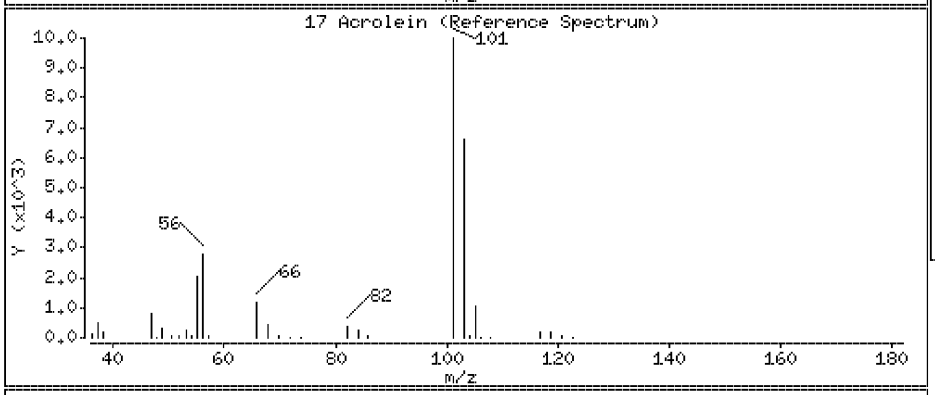
Concentration: 0.900 ppbv

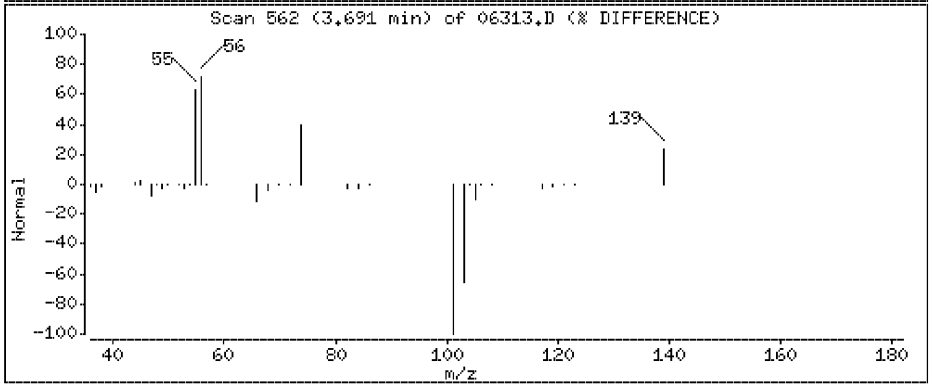












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

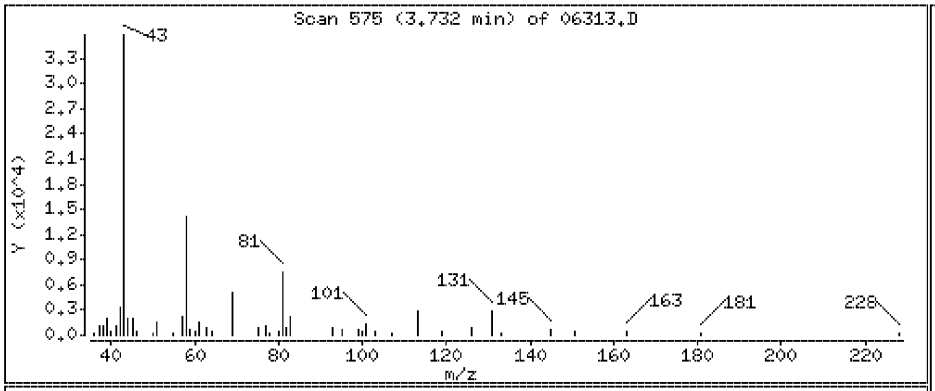
Operator: MJL

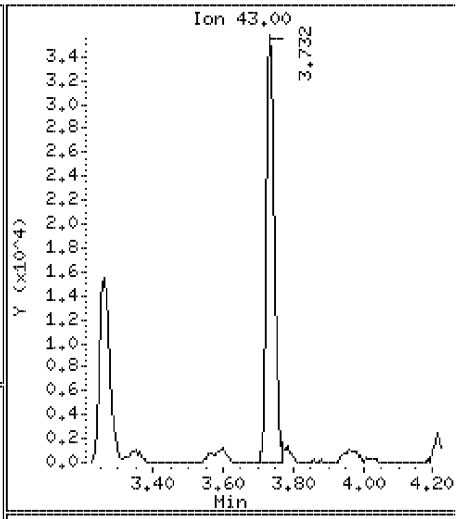
Column phase: J&W DB-5

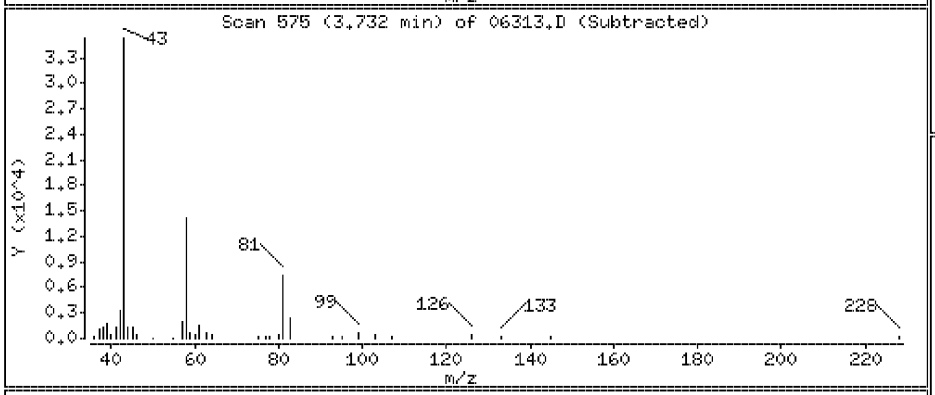
Column diameter: 0.32

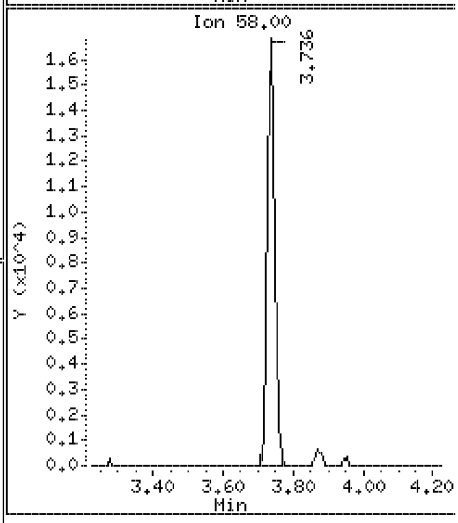
18 Acetone

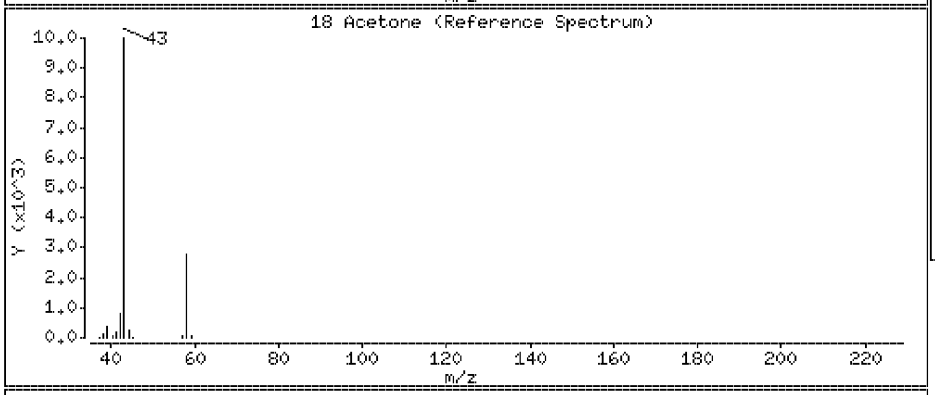
Concentration: 4.54 ppbv

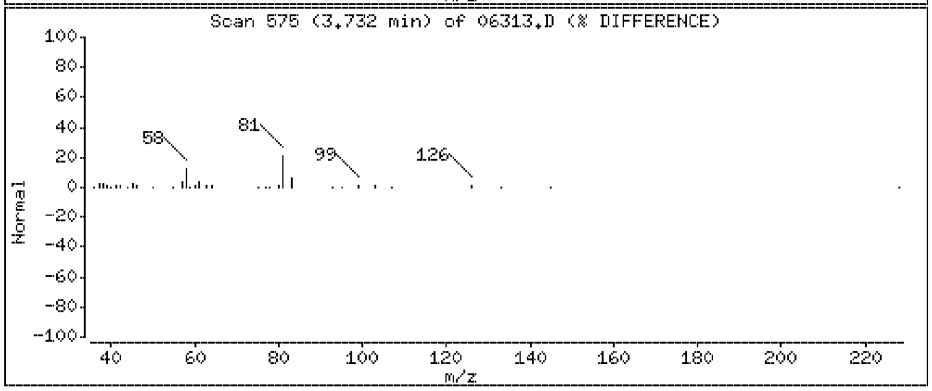












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

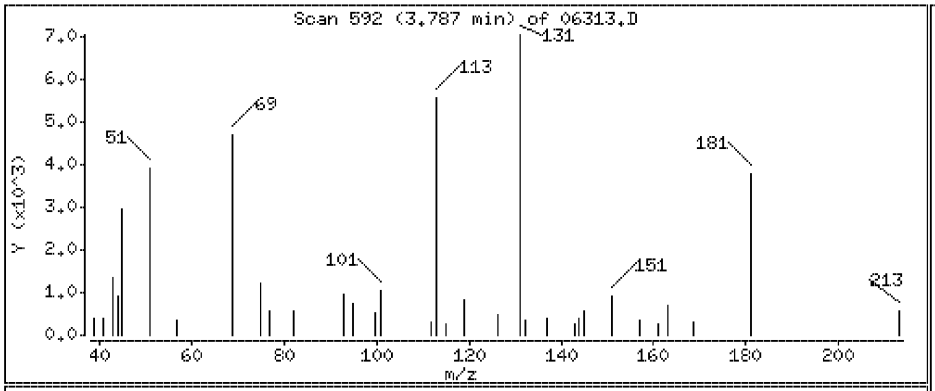
Operator: MJL

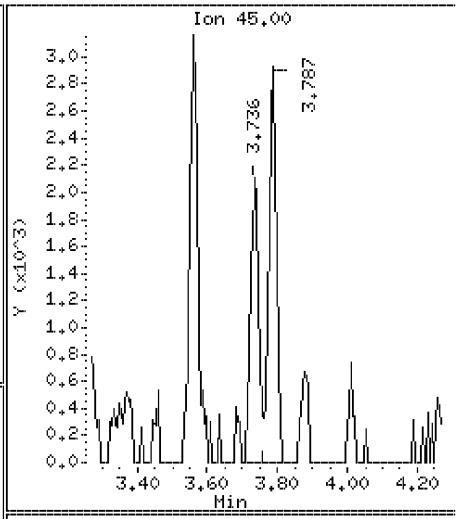
Column phase: J&W DB-5

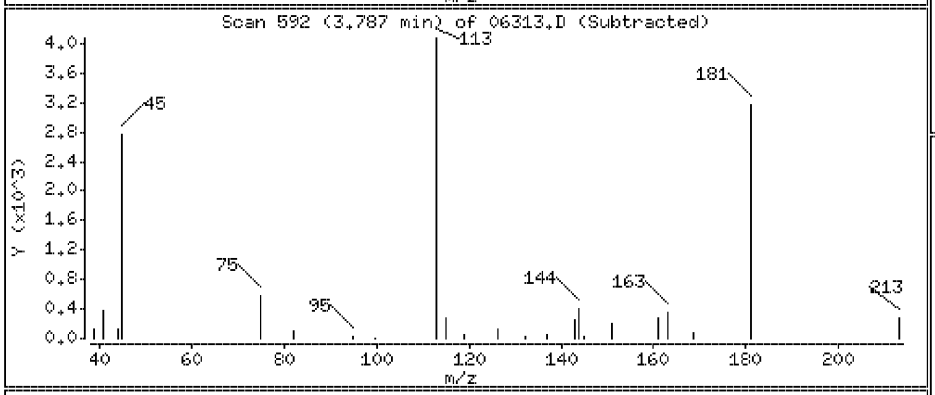
Column diameter: 0.32

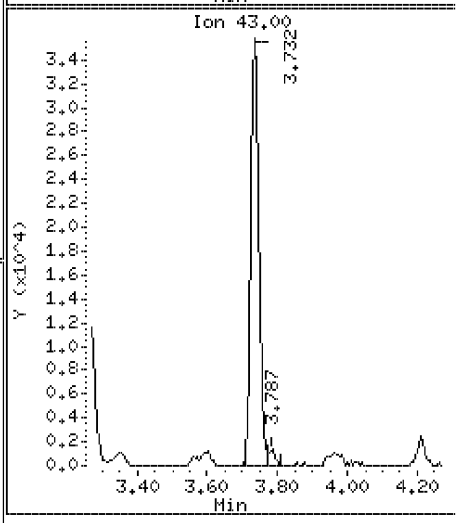
19 Isopropyl Alcohol

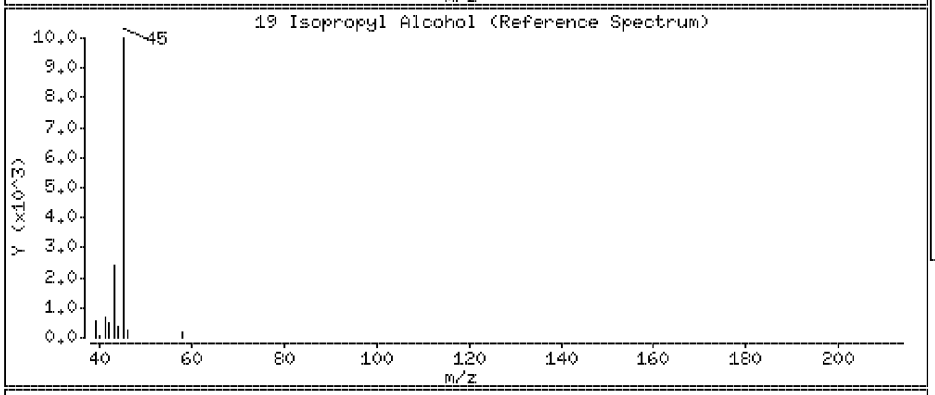
Concentration: 0.338 ppbv

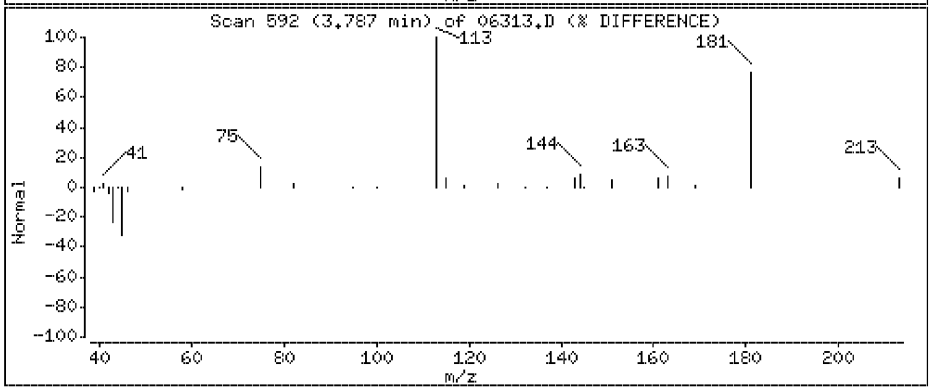












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

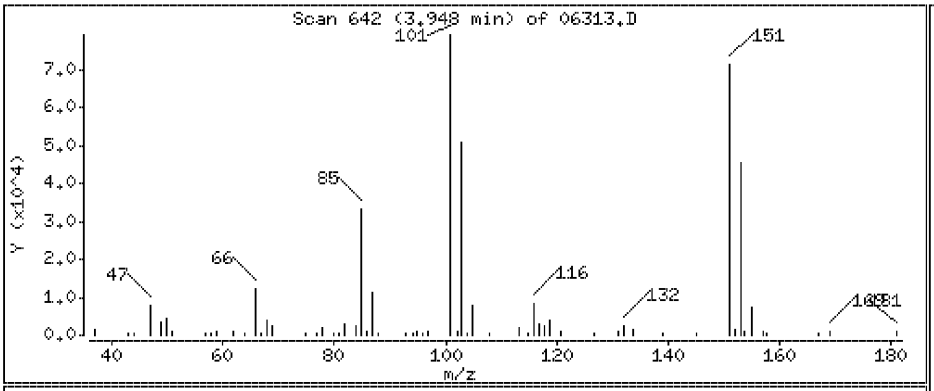
Operator: MJL

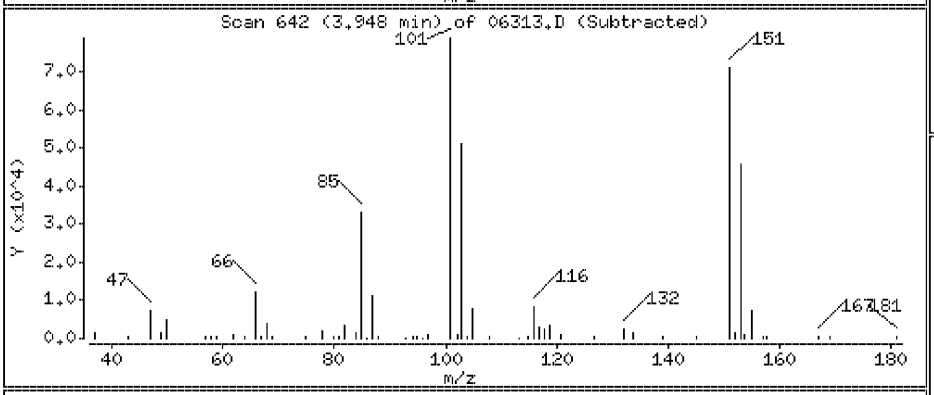
Column phase: J&W DB-5

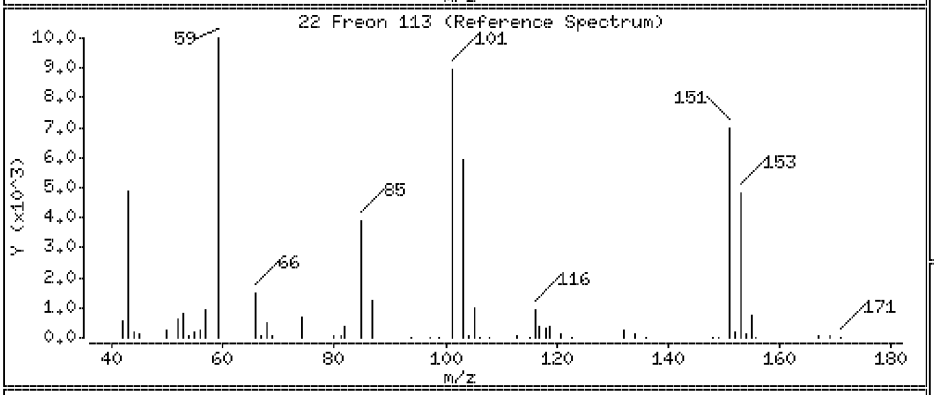
Column diameter: 0.32

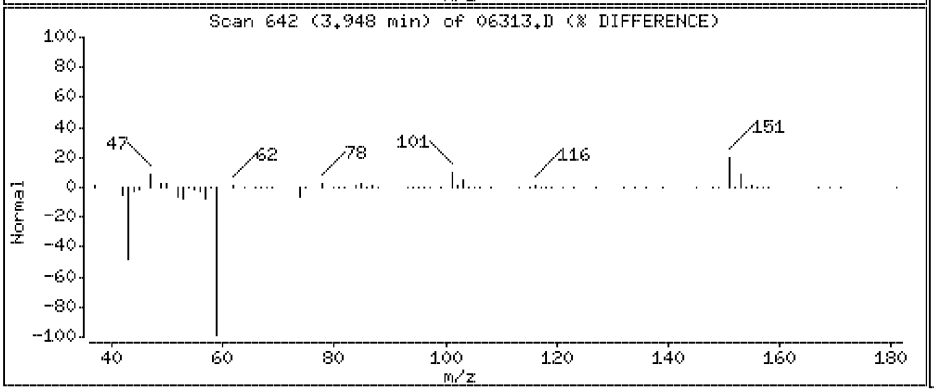
22 Freon 113

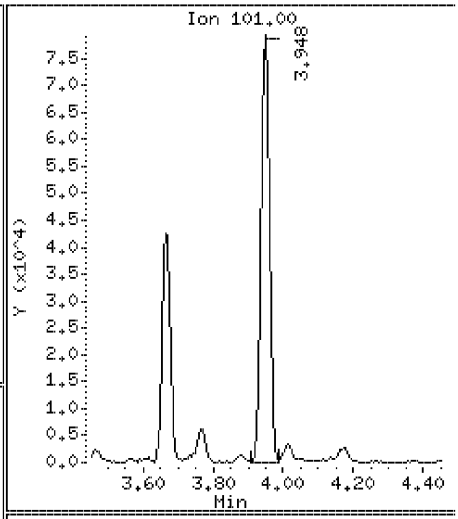
Concentration: 8.26 ppbv

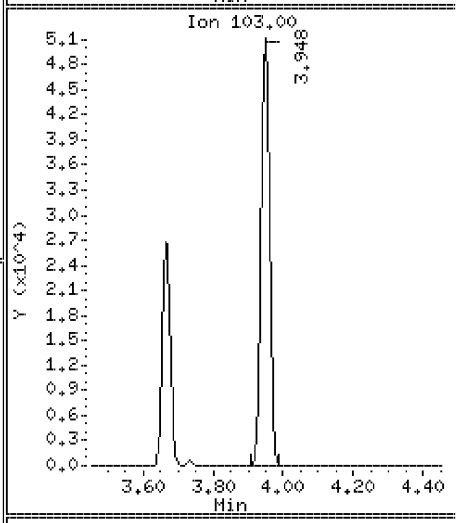


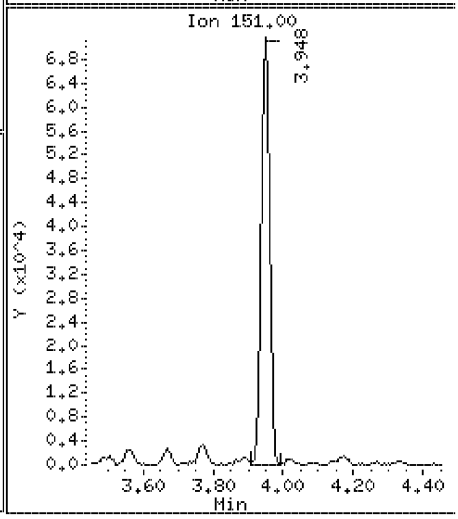












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

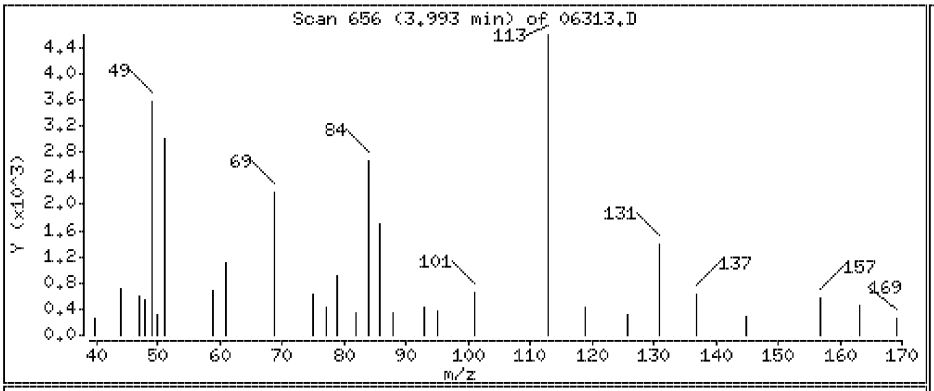
Operator: MJL

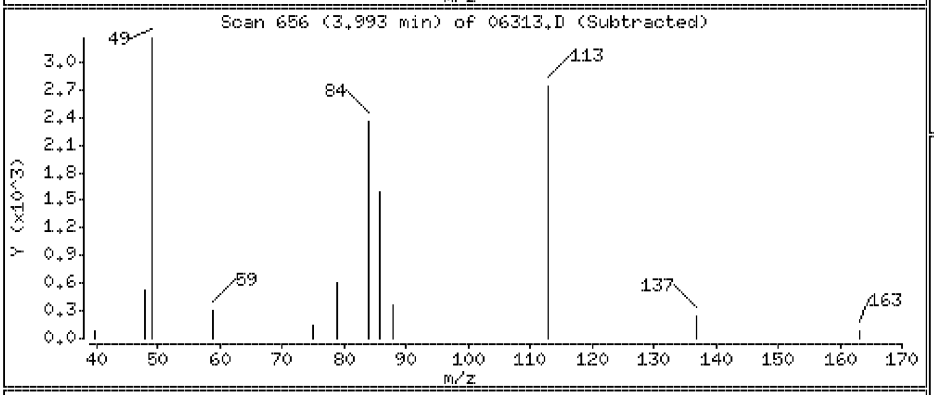
Column phase: J&W DB-5

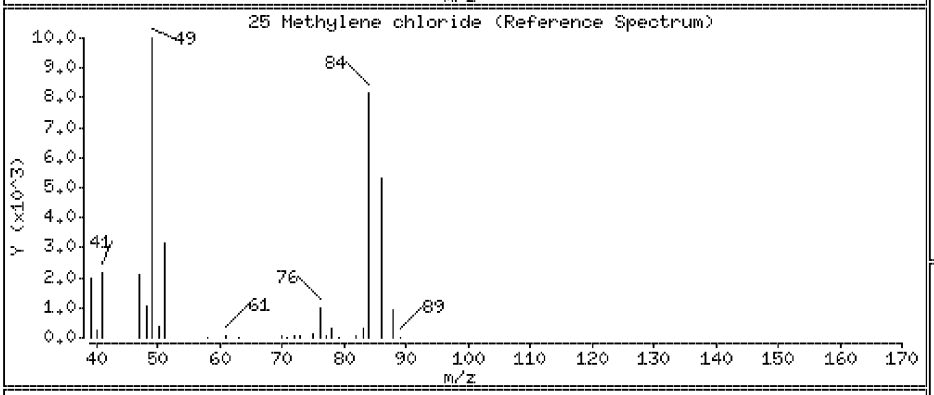
Column diameter: 0.32

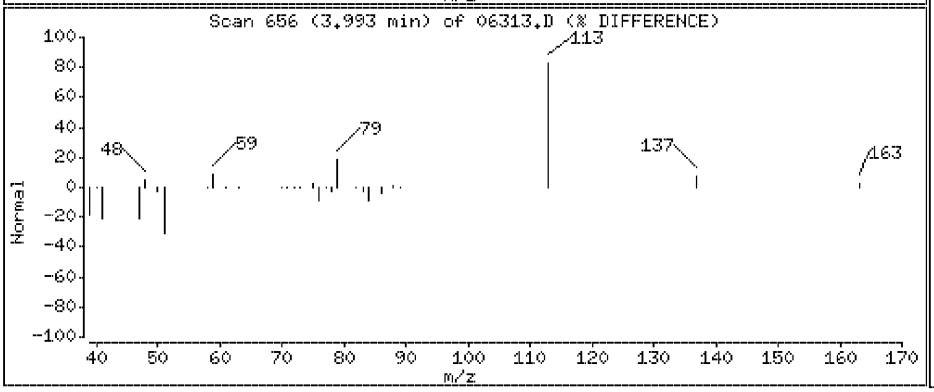
25 Methylene chloride

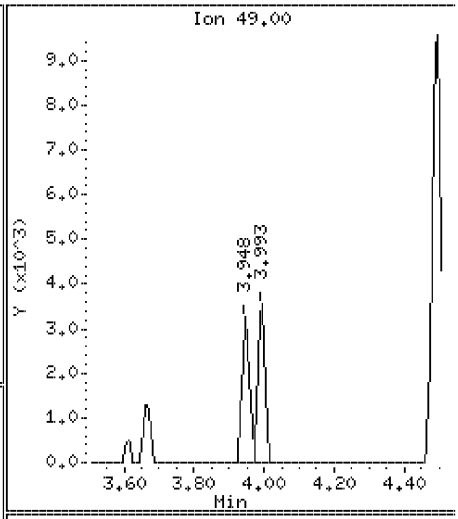
Concentration: 0.569 ppbv

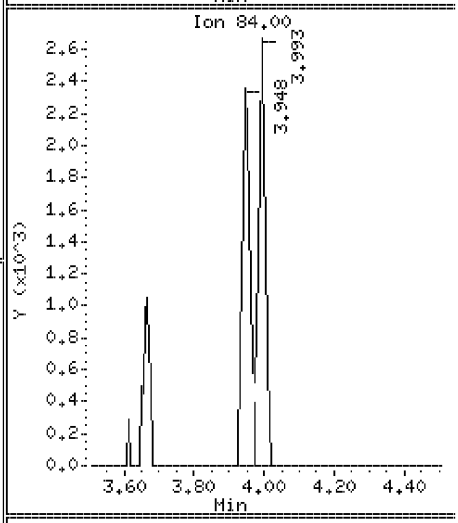


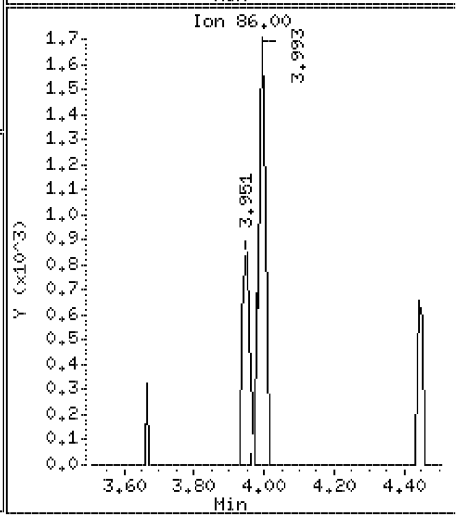












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

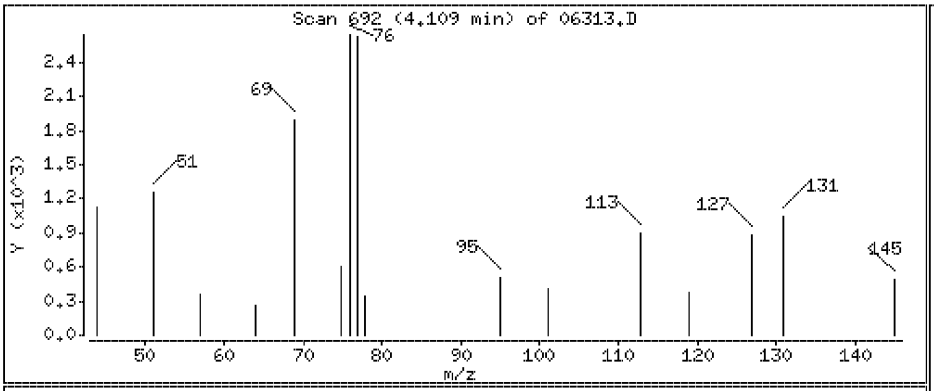
Operator: MJL

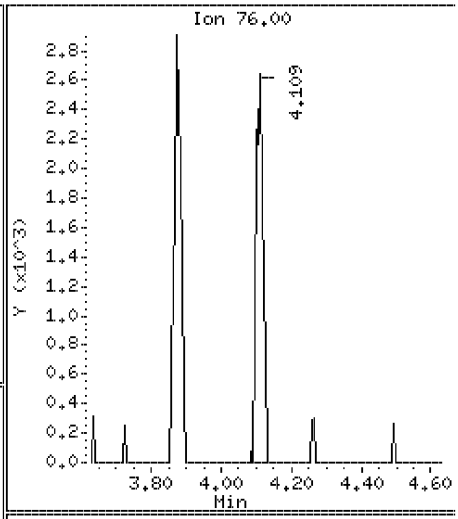
Column phase: J&W DB-5

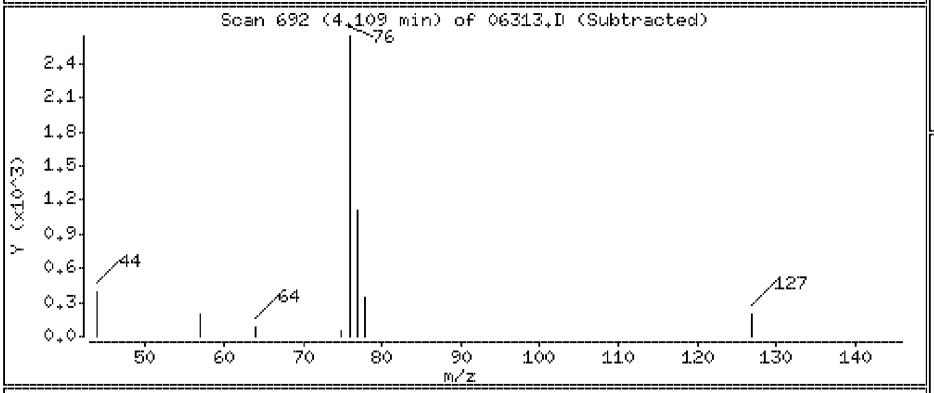
Column diameter: 0.32

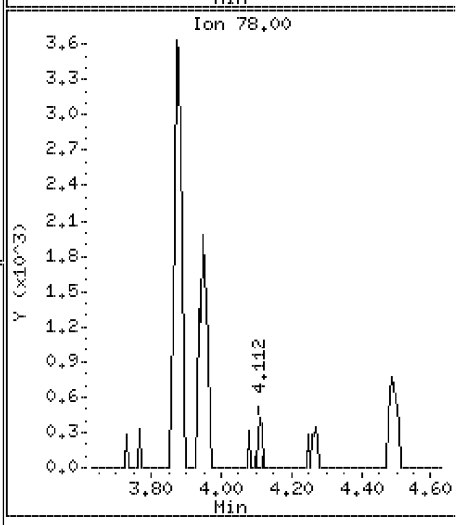
27 Carbon Disulfide

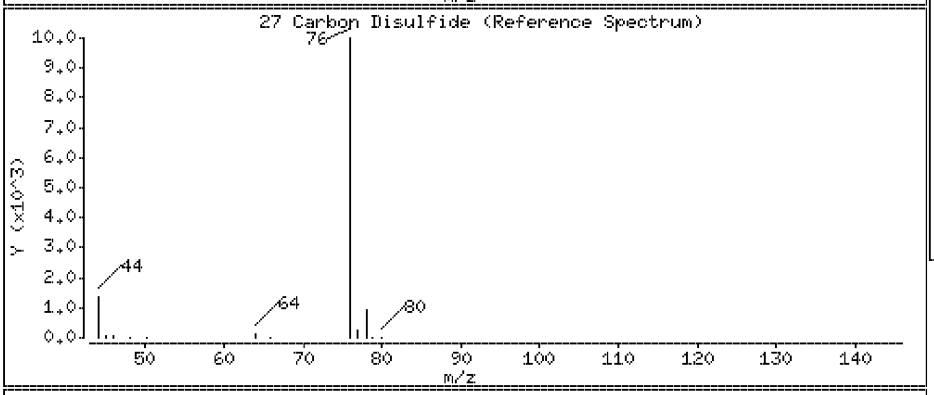
Concentration: 0.215 ppbv

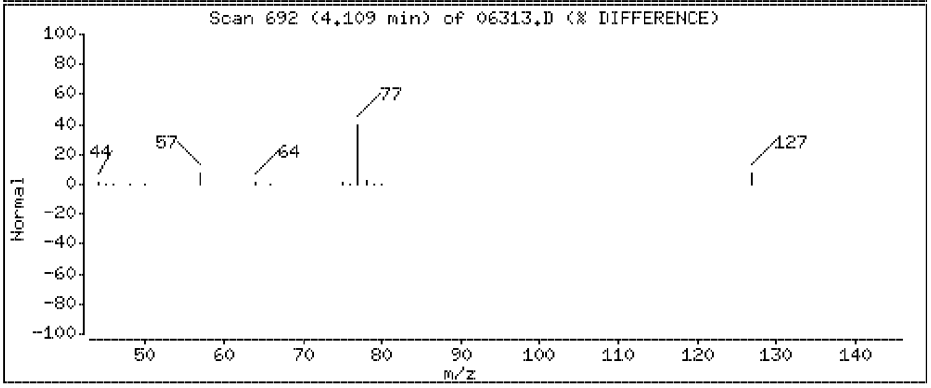












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

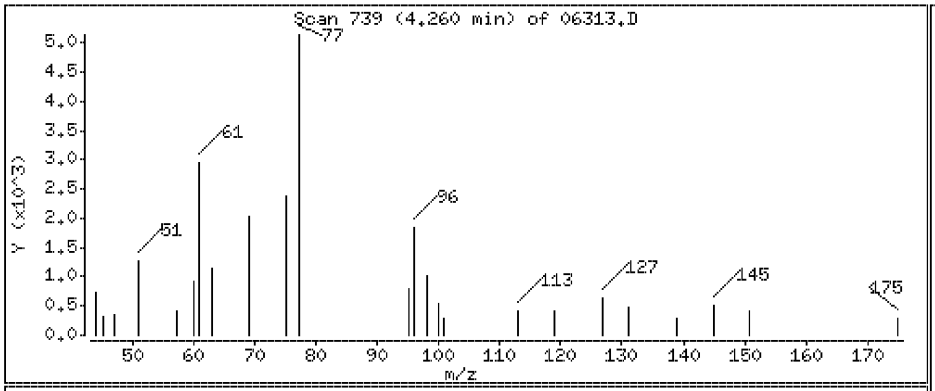
Operator: MJL

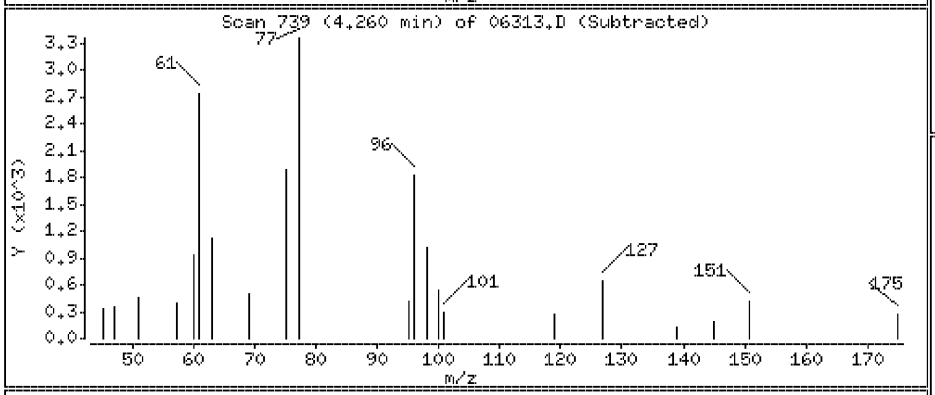
Column phase: J&W DB-5

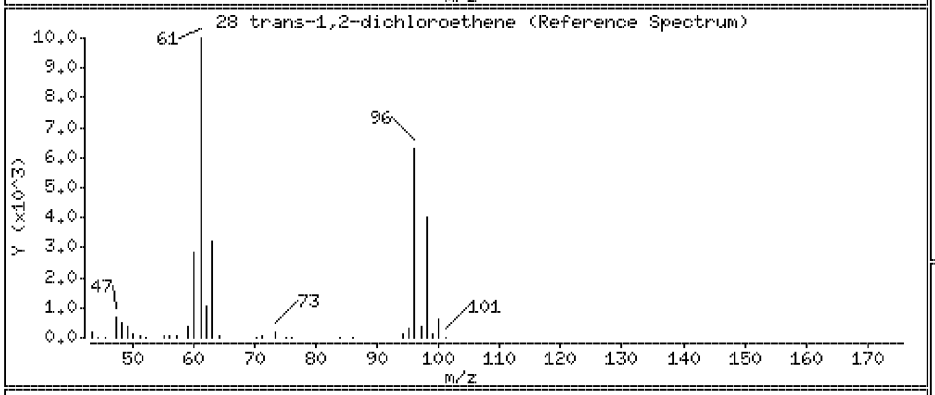
Column diameter: 0.32

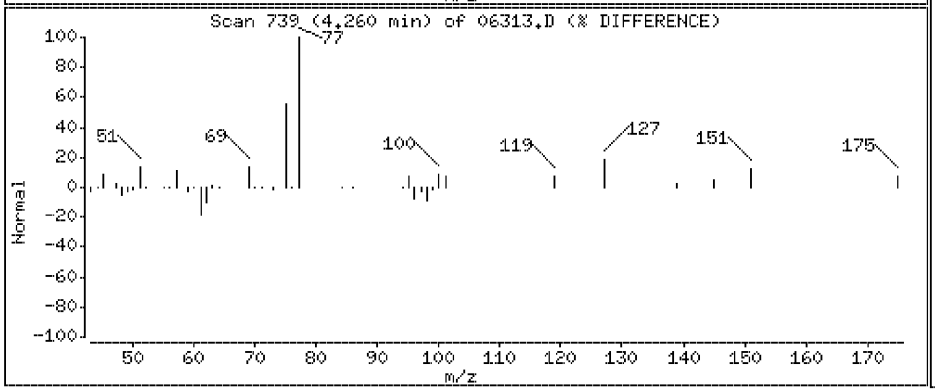
28 trans-1,2-dichloroethene

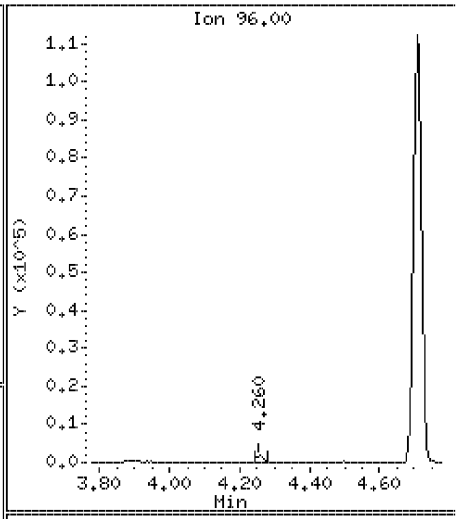
Concentration: 0.359 ppbv

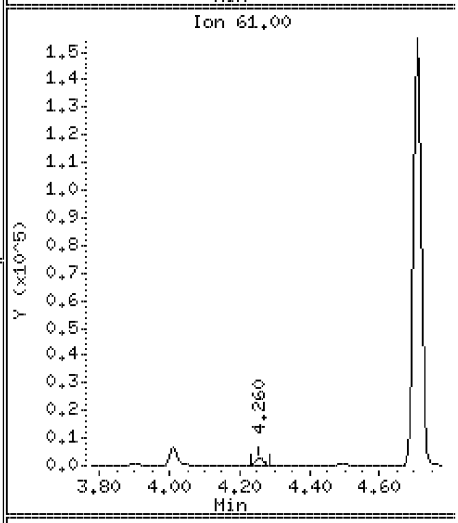


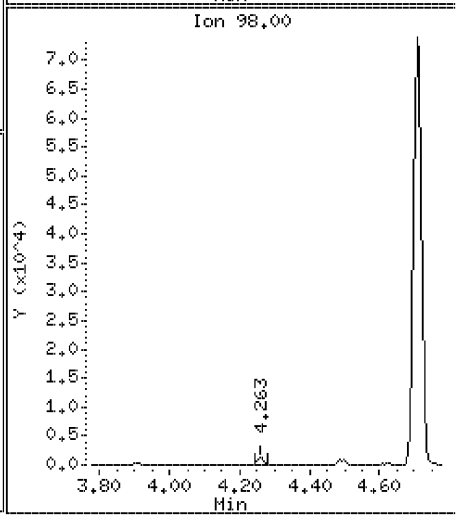












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

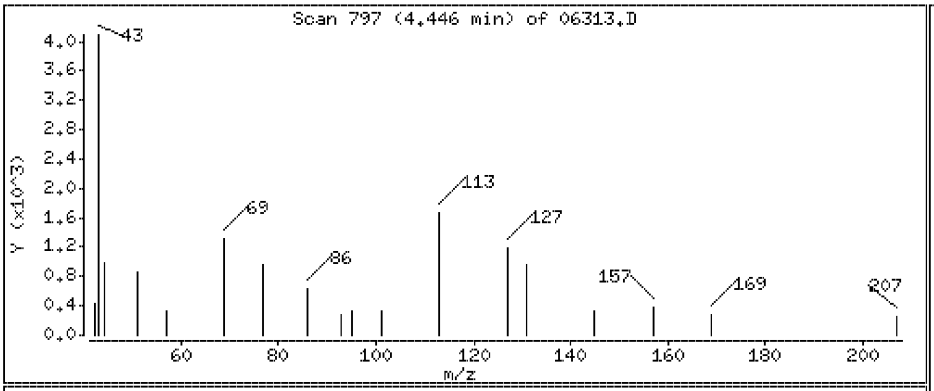
Operator: MJL

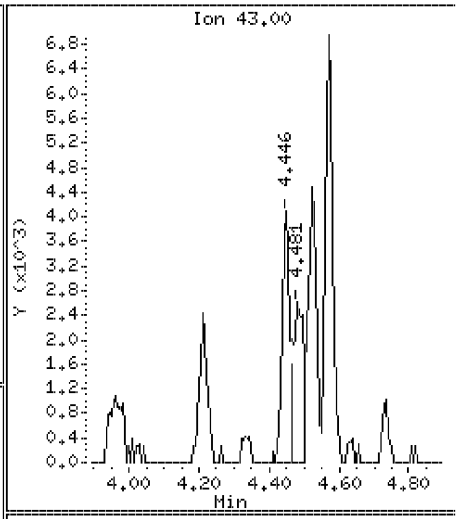
Column phase: J&W DB-5

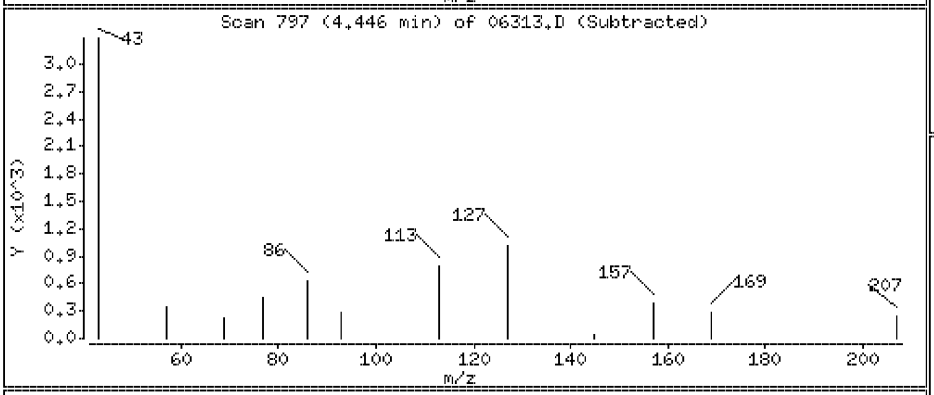
Column diameter: 0.32

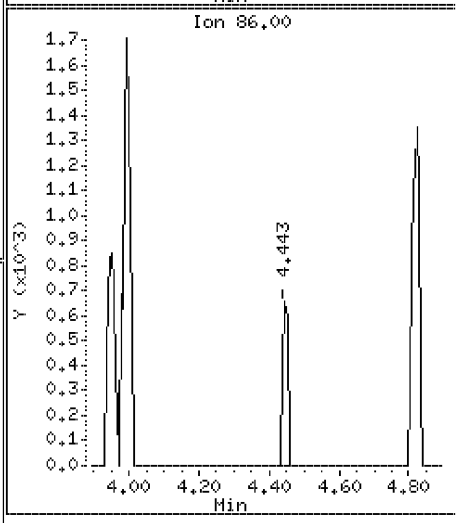
30 Vinyl Acetate

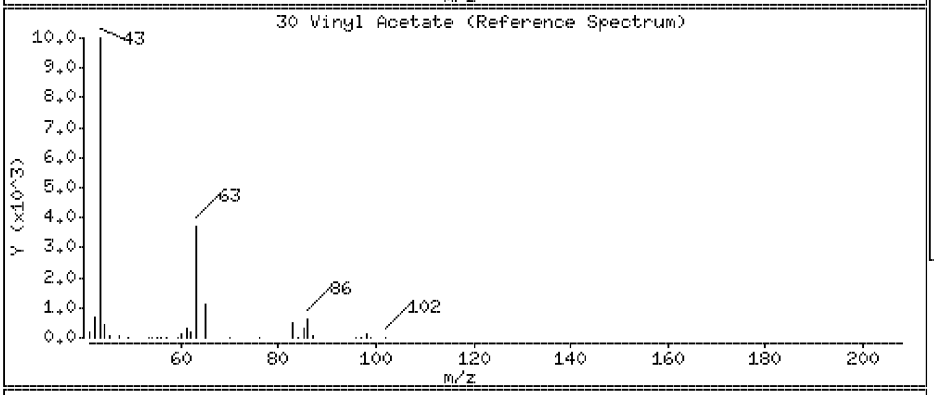
Concentration: 0.609 ppbv

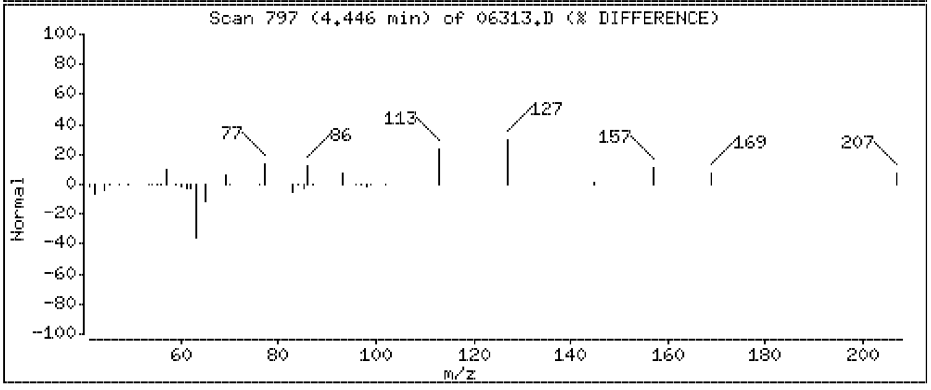












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

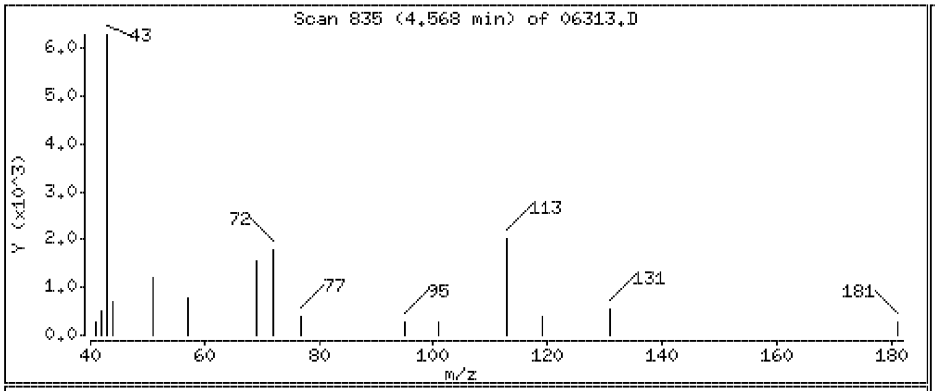
Operator: MJL

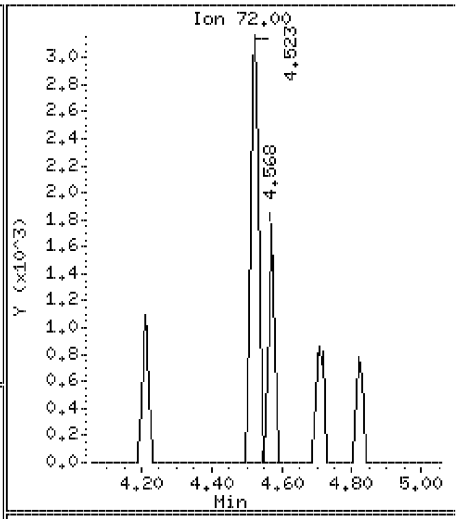
Column phase: J&W DB-5

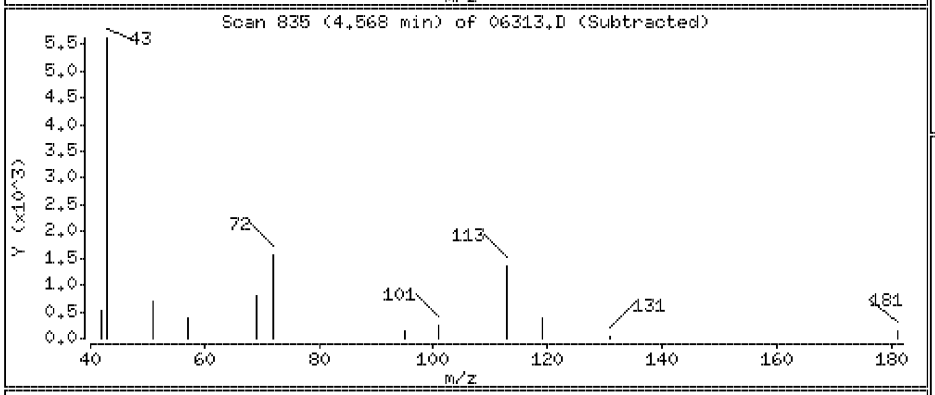
Column diameter: 0.32

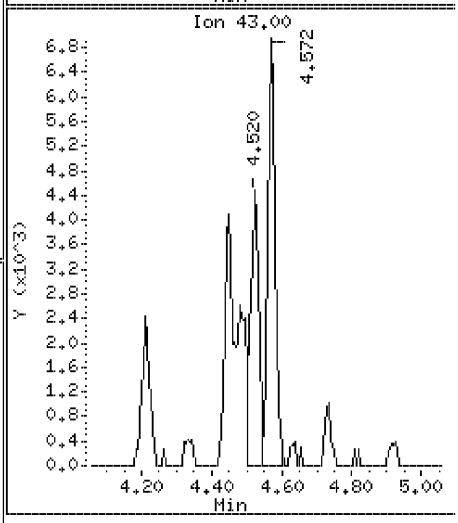
33 Methyl Ethyl Ketone

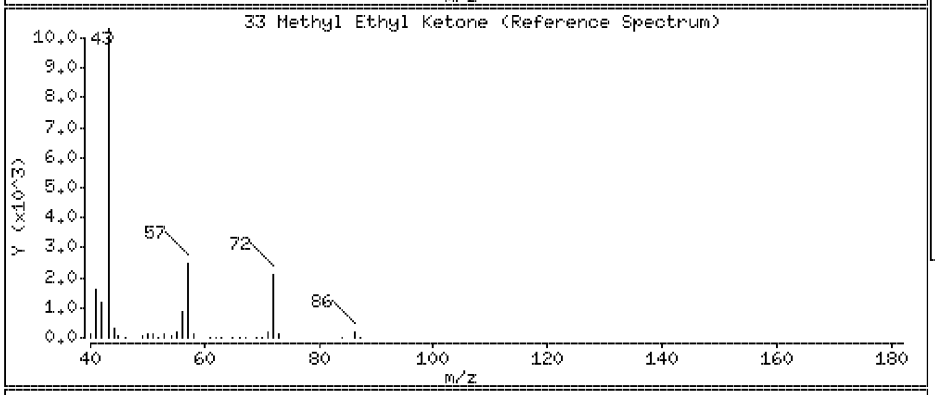
Concentration: 0.675 ppbv

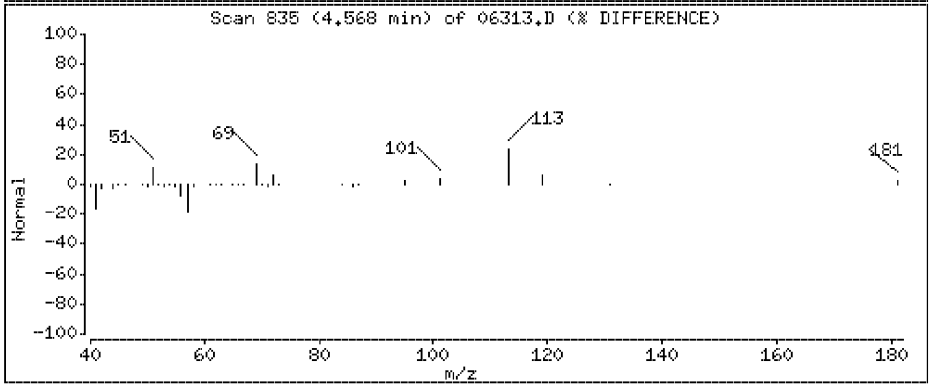












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

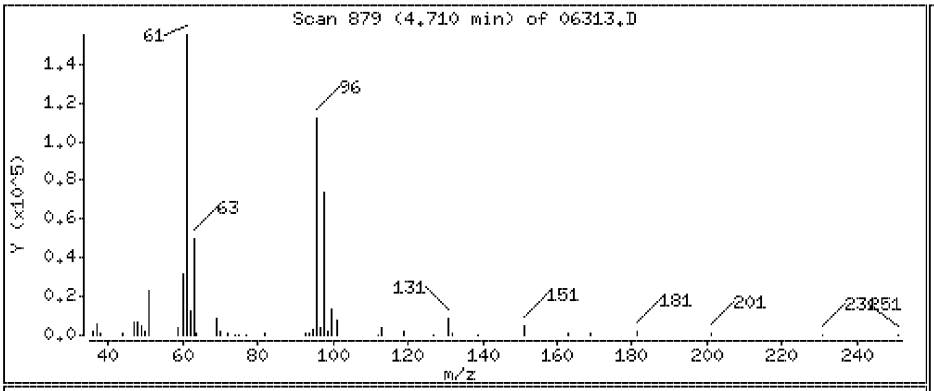
Operator: MJL

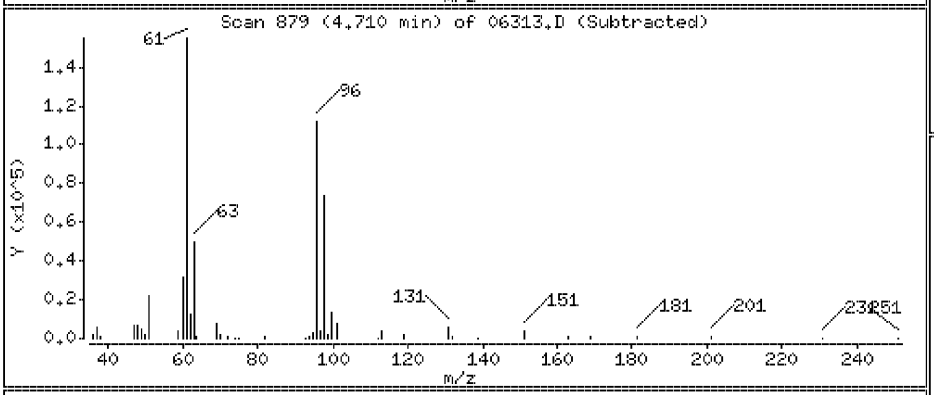
Column phase: J&W DB-5

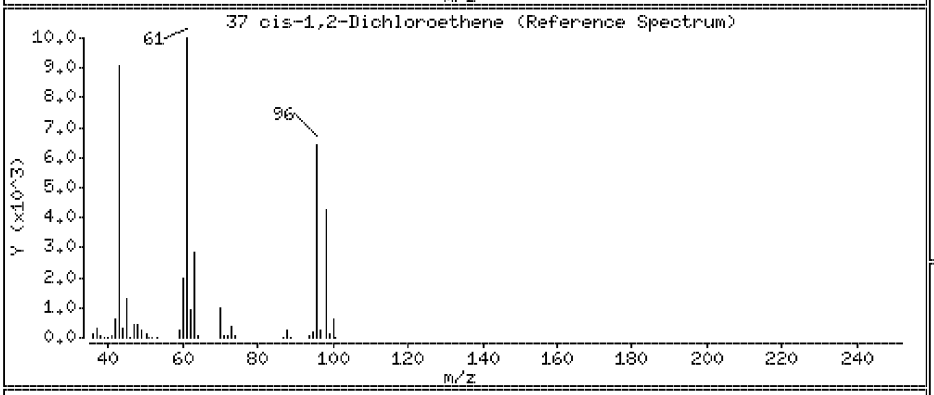
Column diameter: 0.32

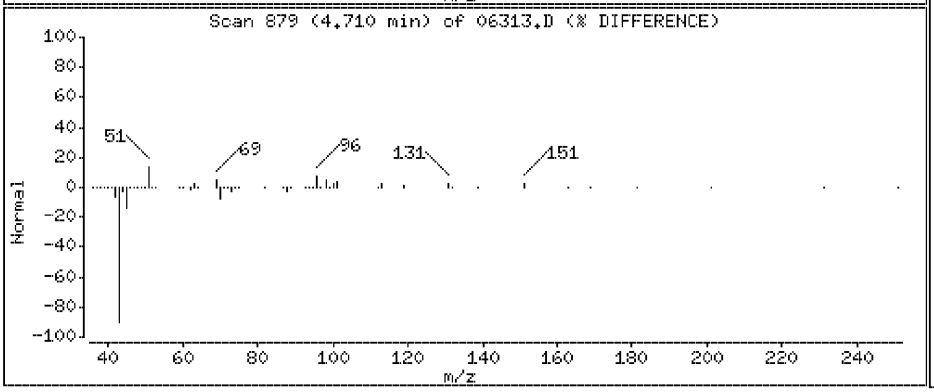
37 cis-1,2-Dichloroethene

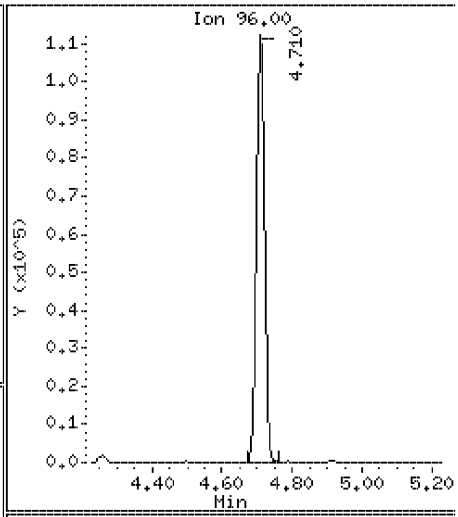
Concentration: 23.1 ppbv

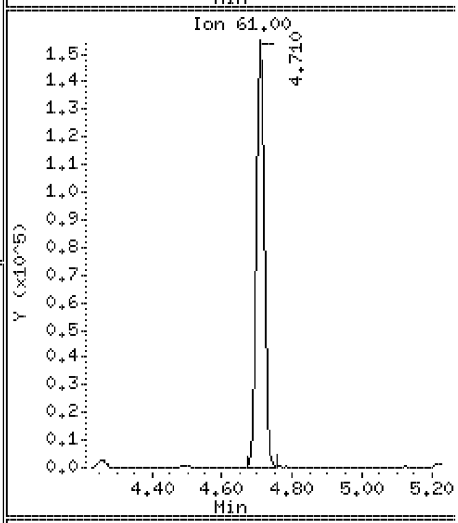


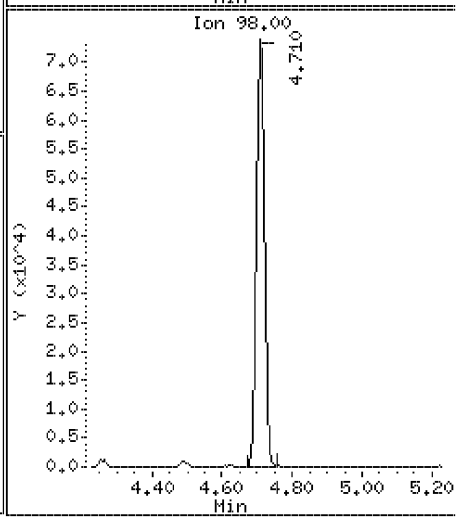












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

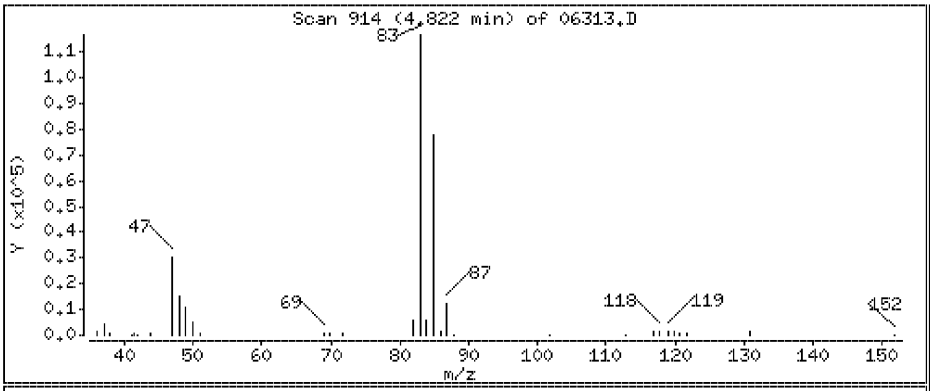
Operator: MJL

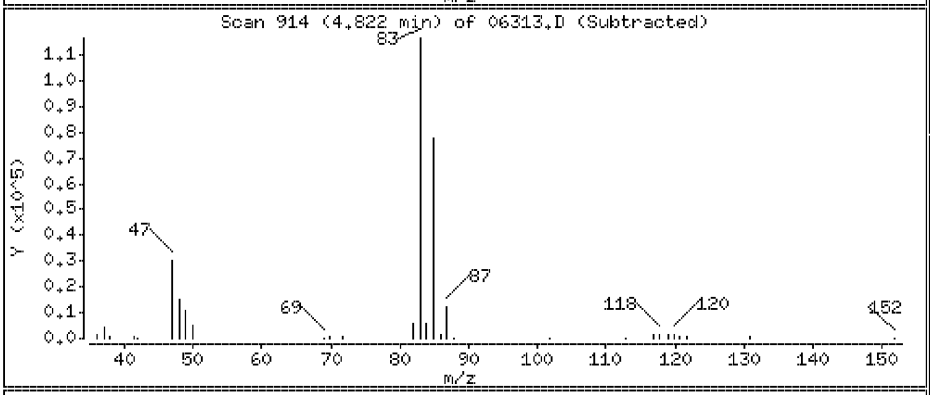
Column phase: J&W DB-5

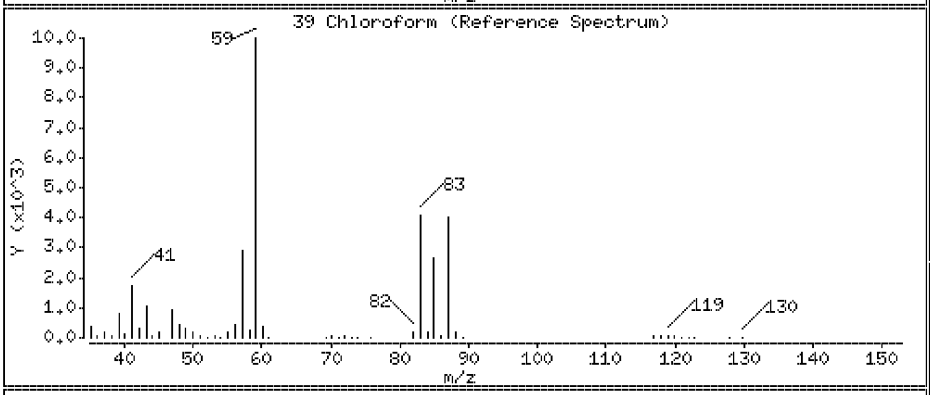
Column diameter: 0.32

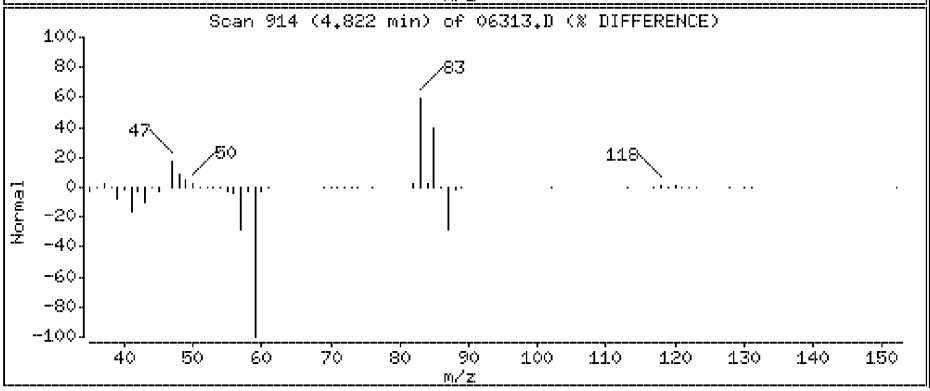
39 Chloroform

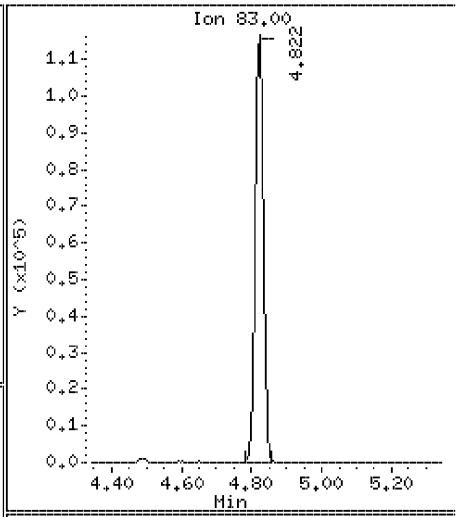
Concentration: 11.5 ppbv

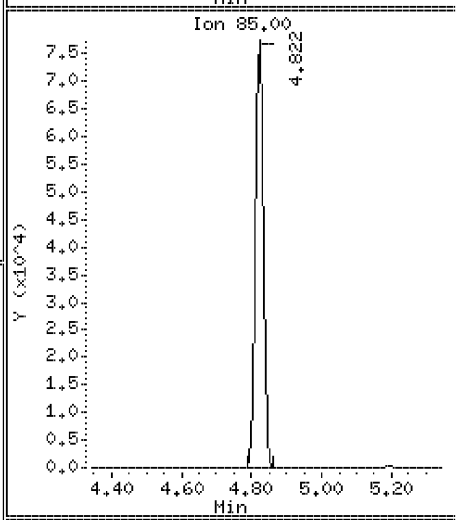


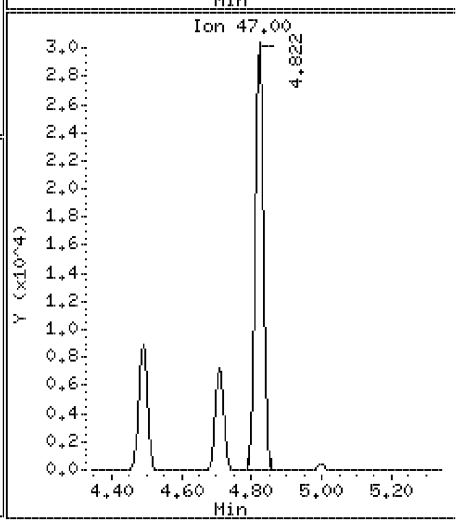












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

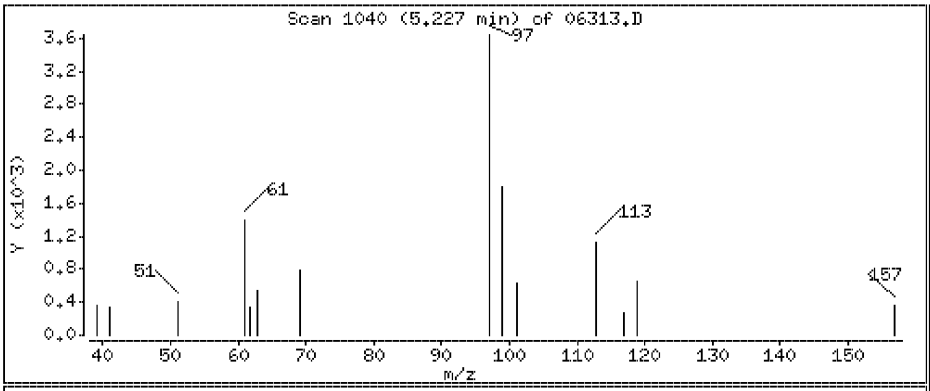
Operator: MJL

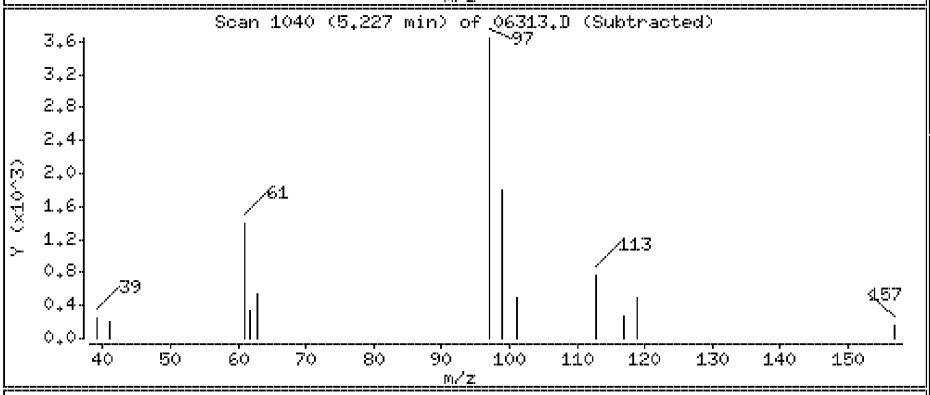
Column phase: J&W DB-5

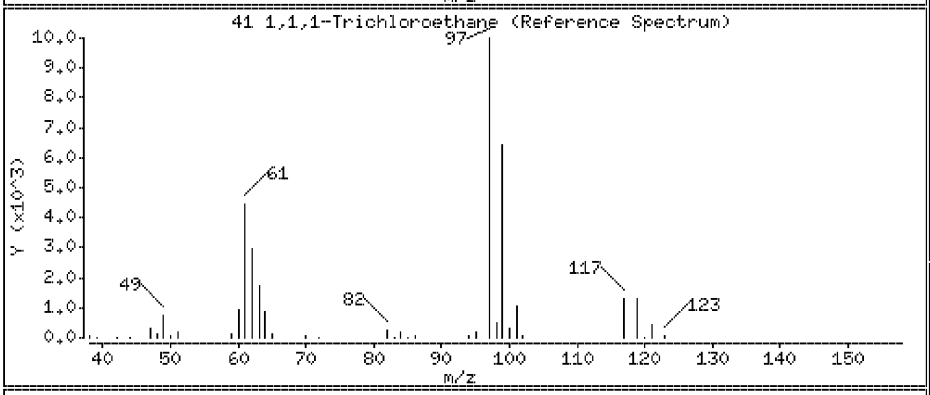
Column diameter: 0.32

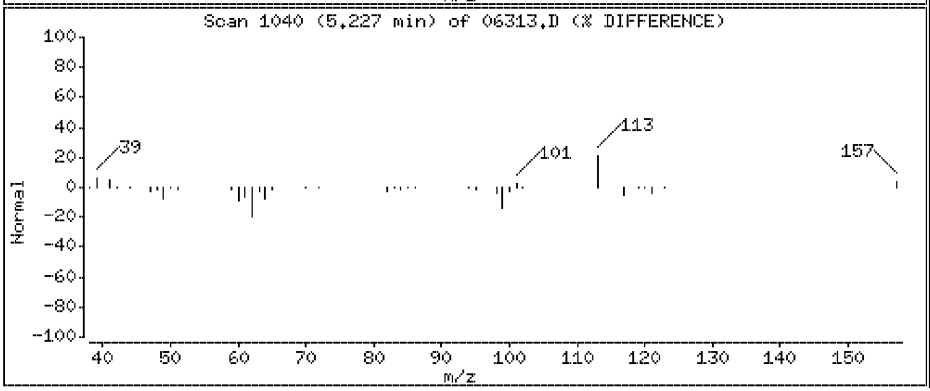
41 1,1,1-Trichloroethane

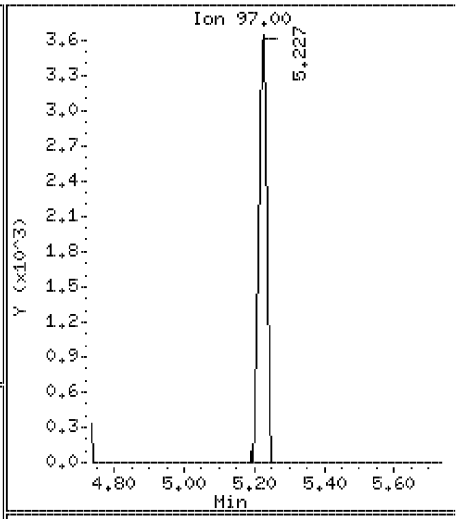
Concentration: 0.303 ppbv

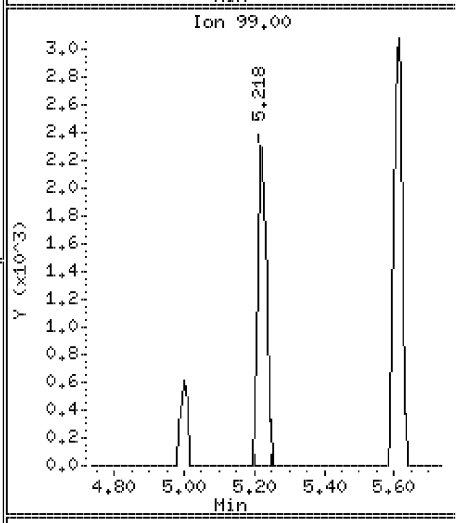


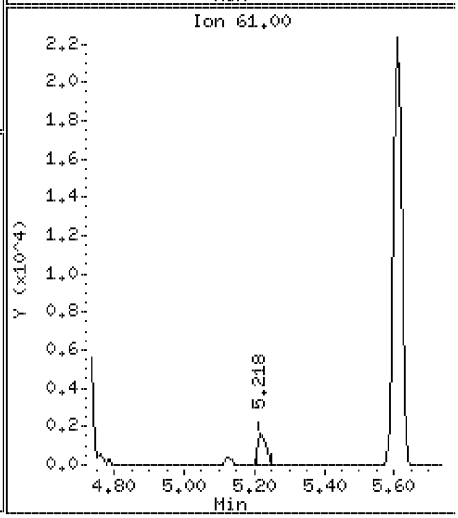












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

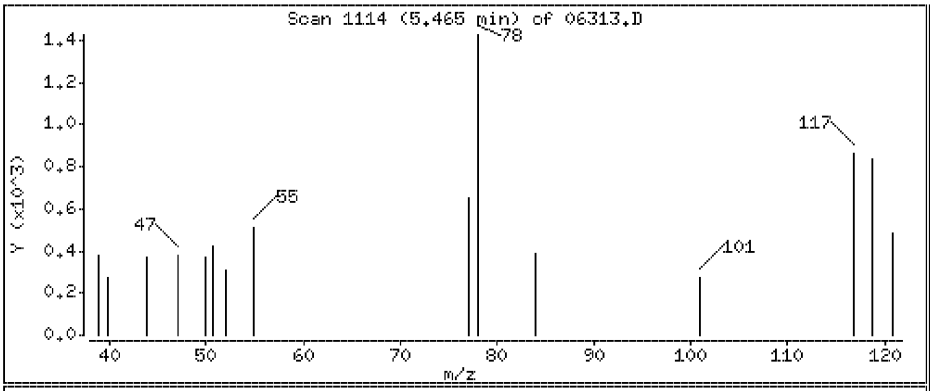
Operator: MJL

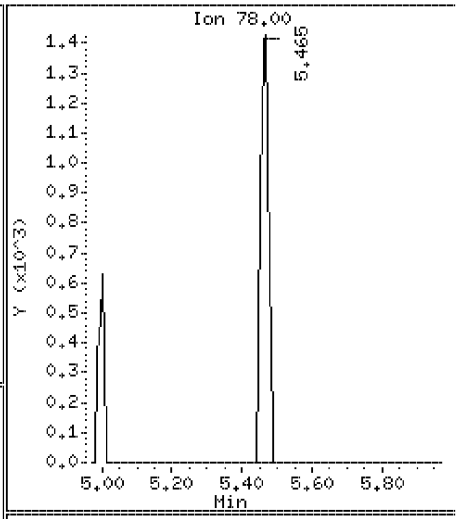
Column phase: J&W DB-5

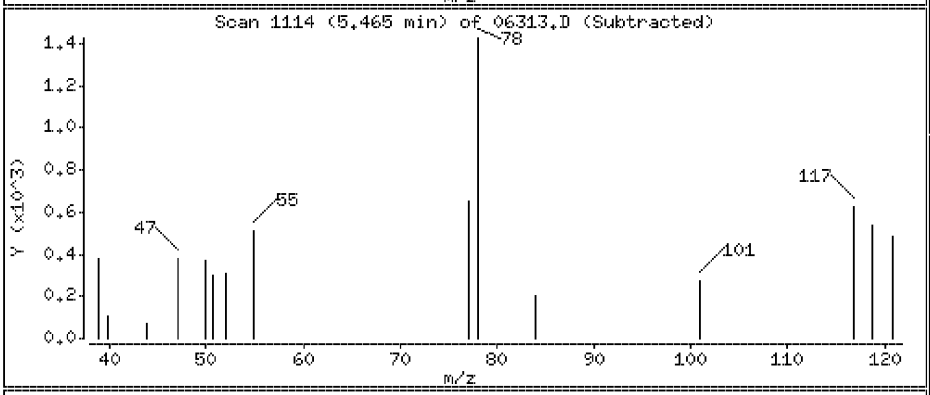
Column diameter: 0.32

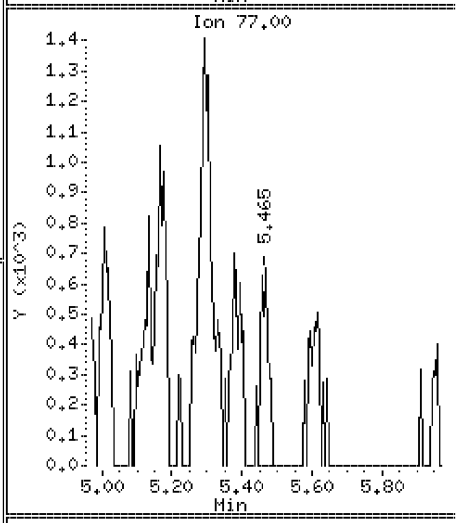
43 Benzene

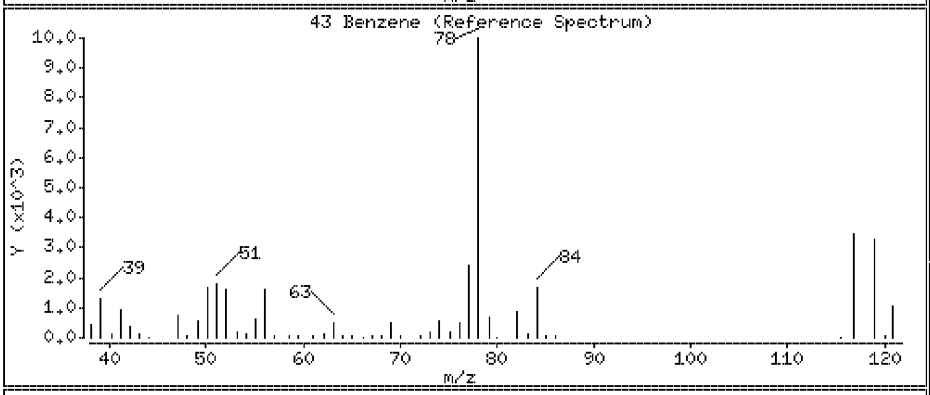
Concentration: 0.0925 ppbv

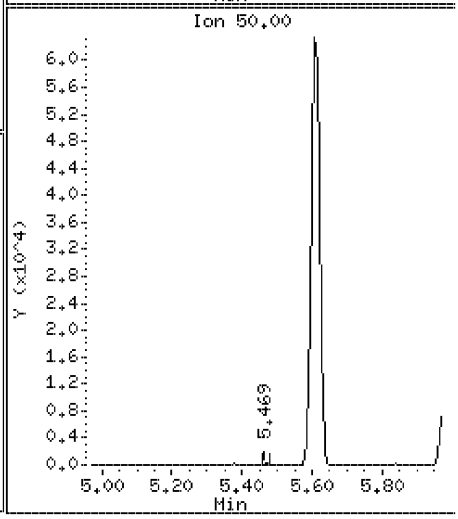


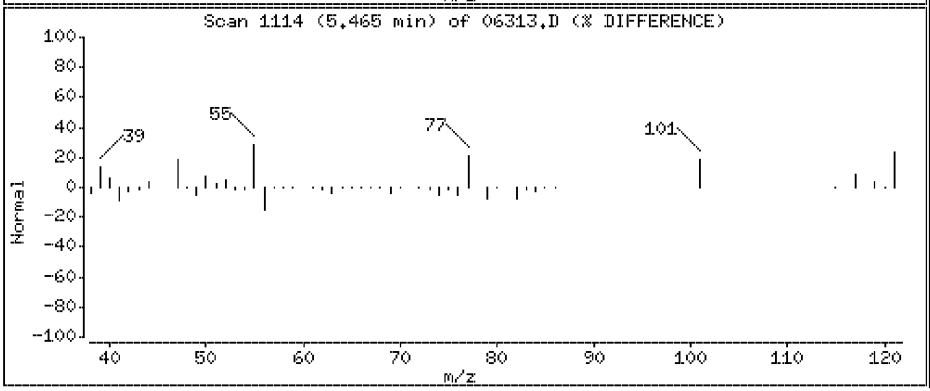












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

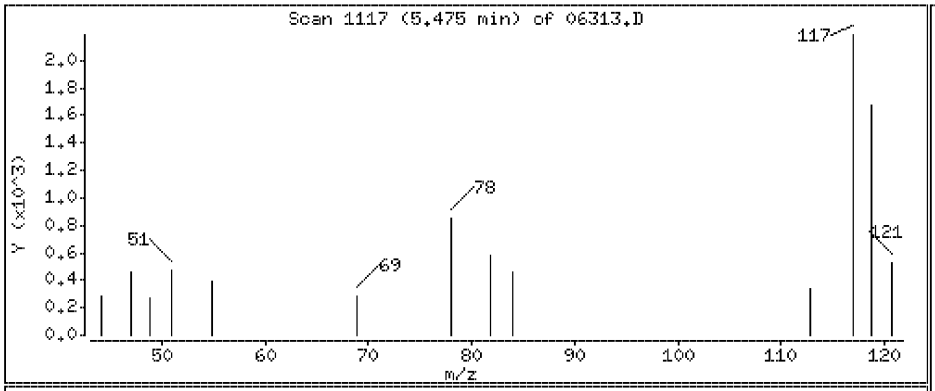
Operator: MJL

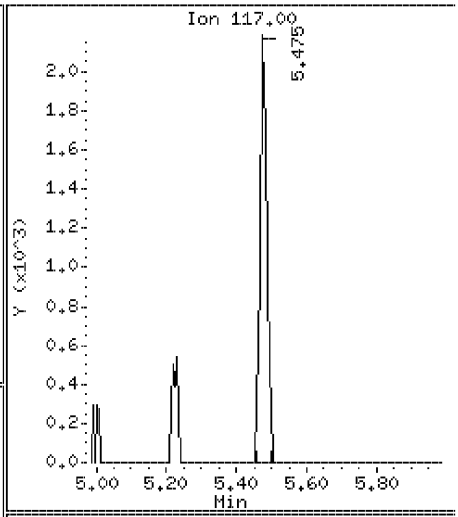
Column phase: J&W DB-5

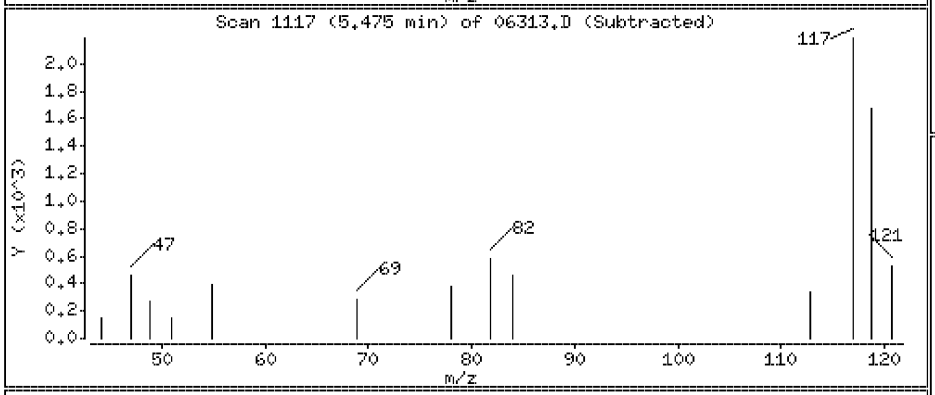
Column diameter: 0.32

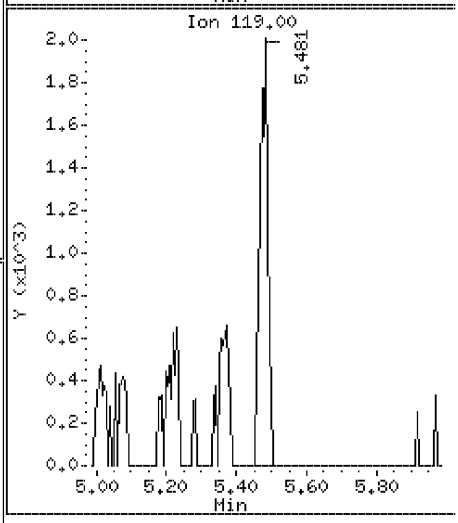
44 Carbon tetrachloride

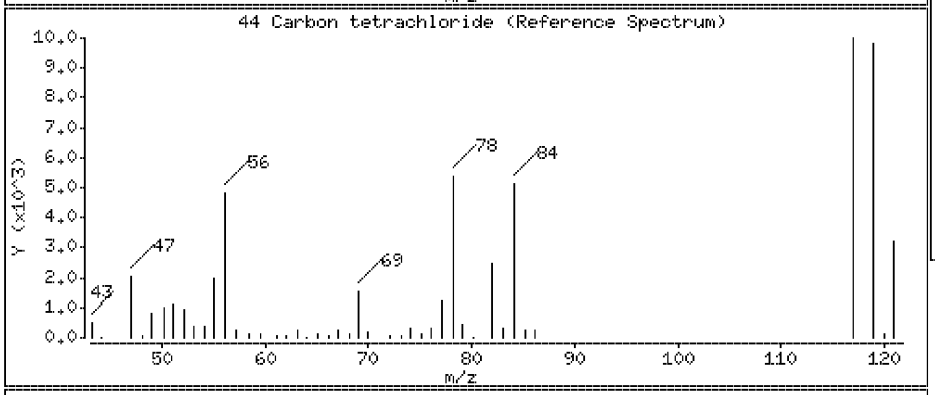
Concentration: 0.149 ppbv

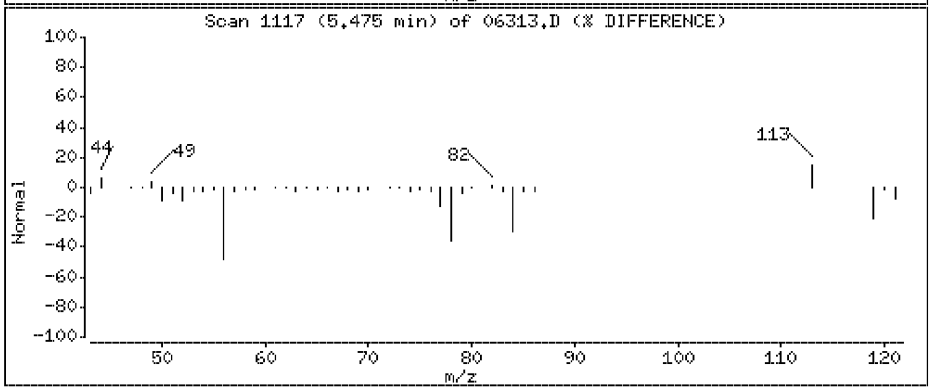












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

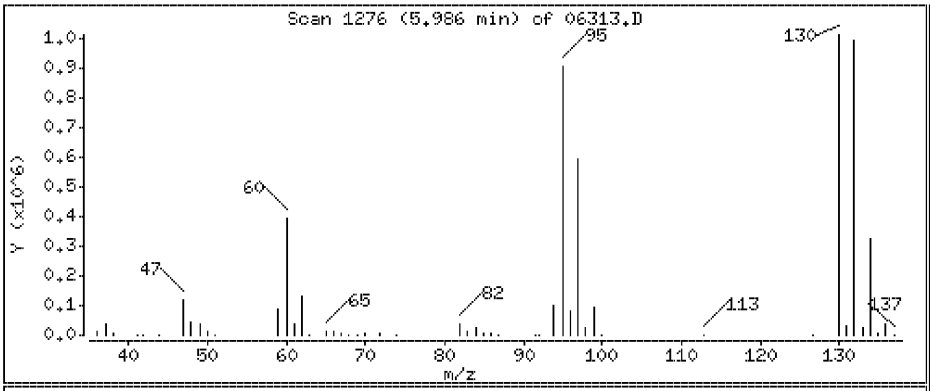
Operator: MJL

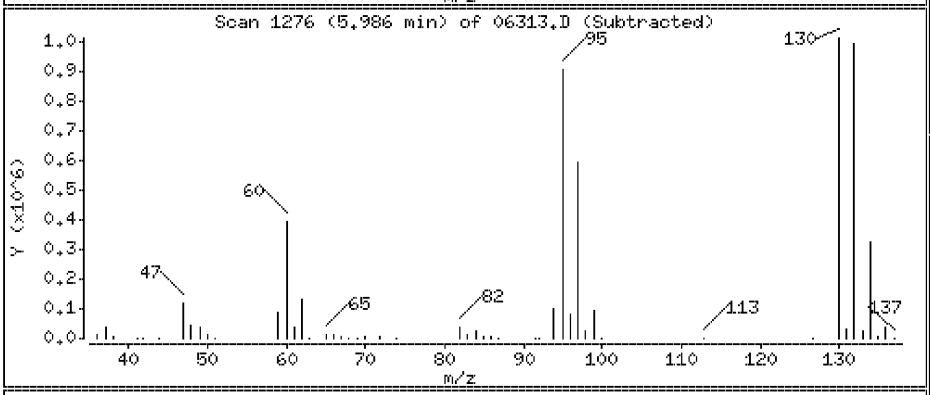
Column phase: J&W DB-5

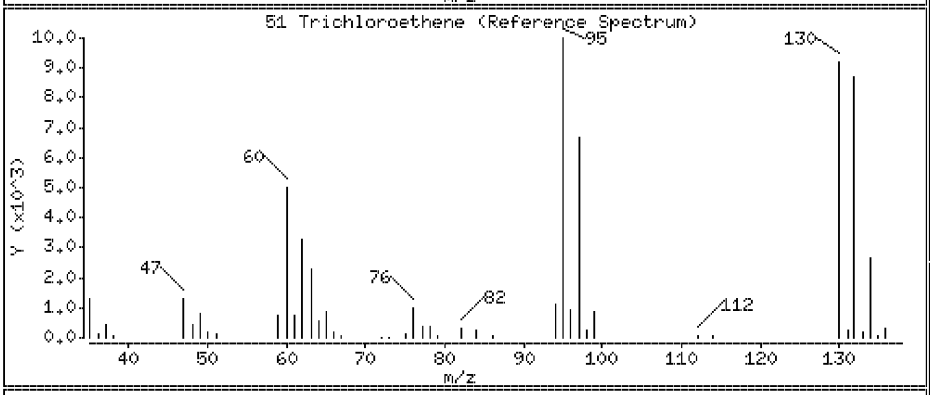
Column diameter: 0.32

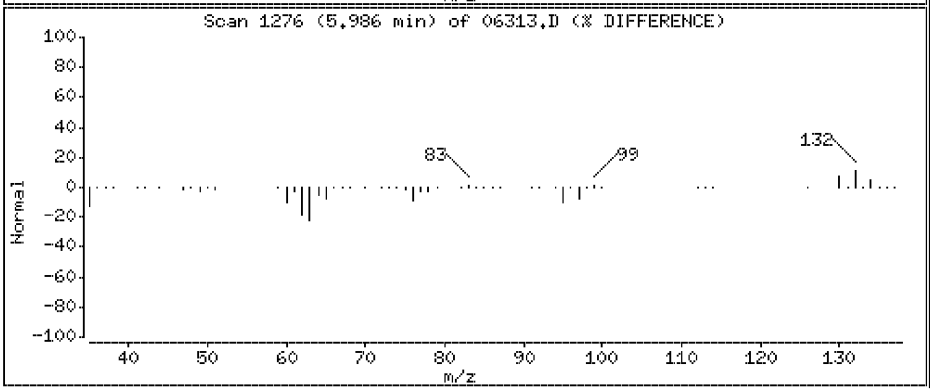
51 Trichloroethene

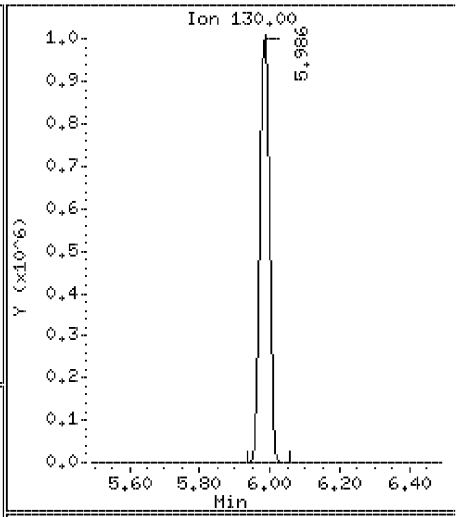
Concentration: 148 ppbv

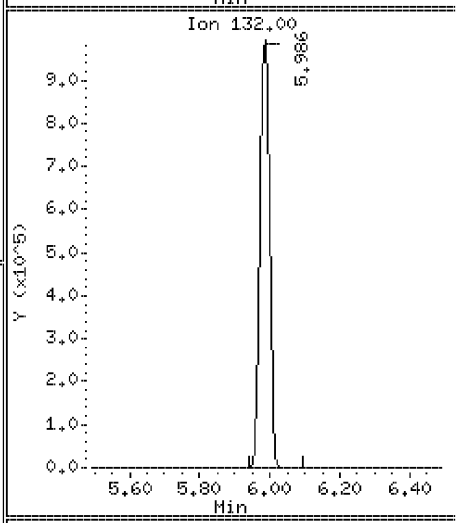


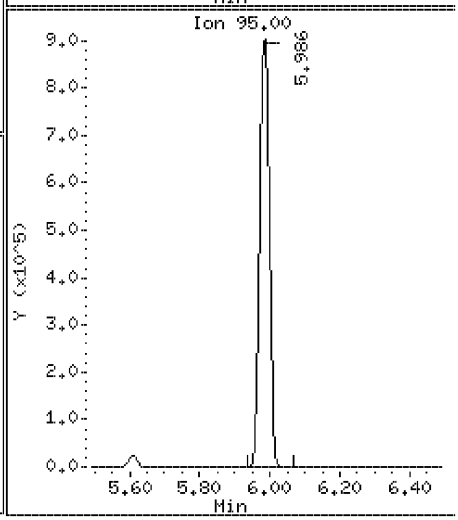












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

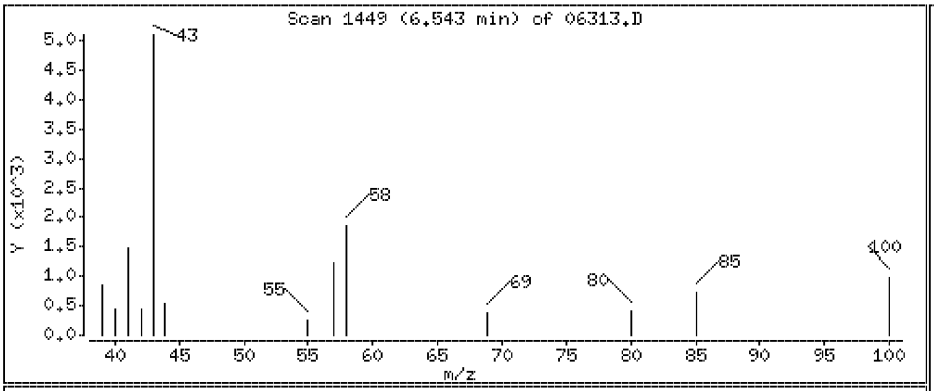
Operator: MJL

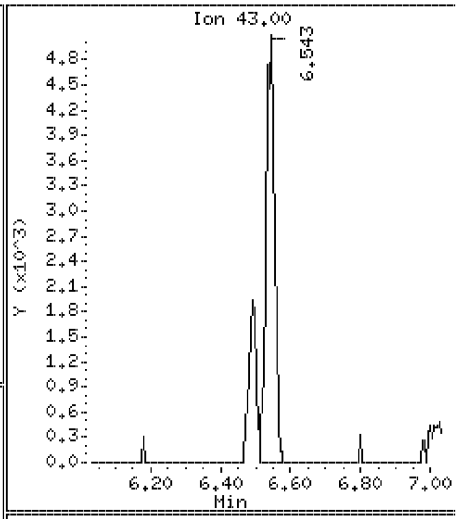
Column phase: J&W DB-5

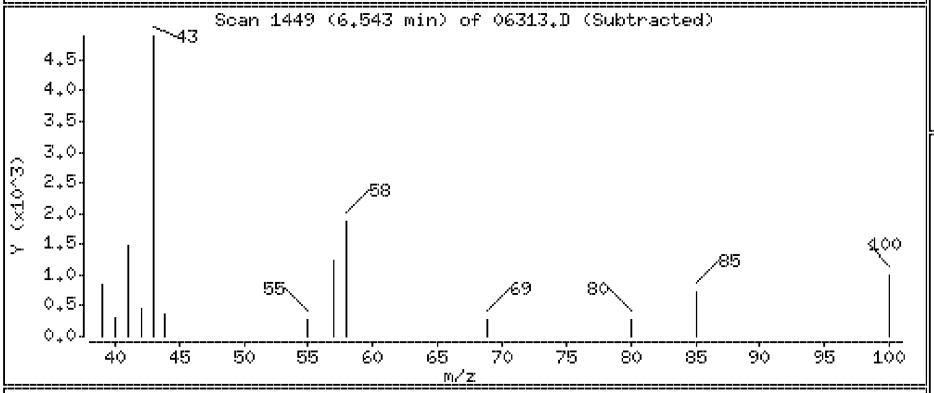
Column diameter: 0.32

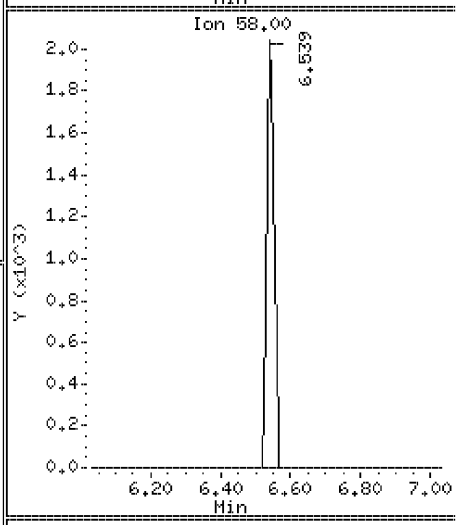
56 Methyl Isobutyl Ketone

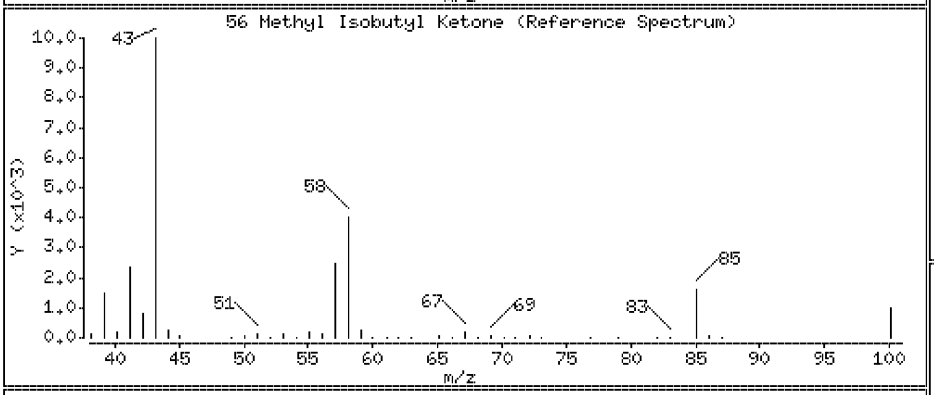
Concentration: 0.459 ppbv

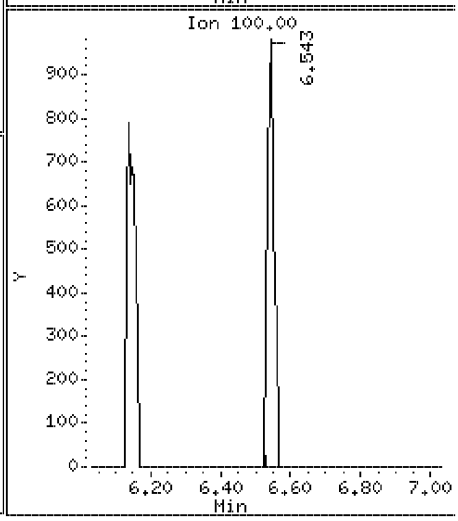


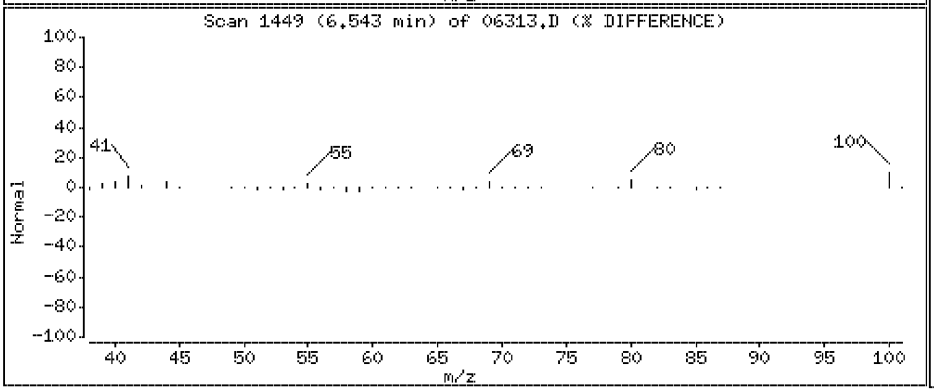












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

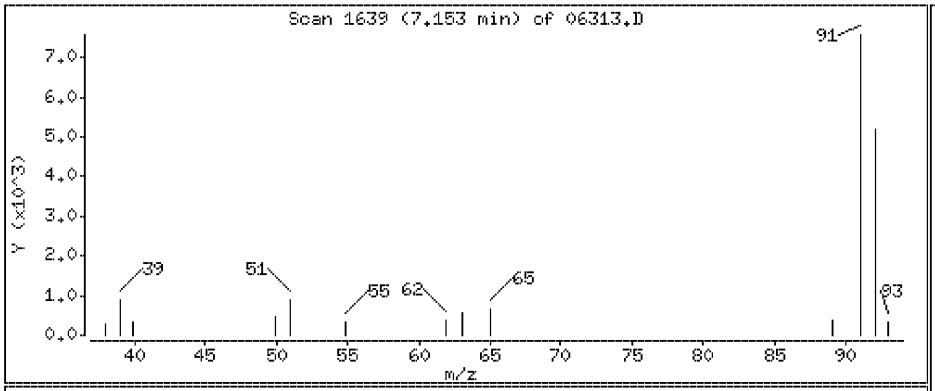
Operator: MJL

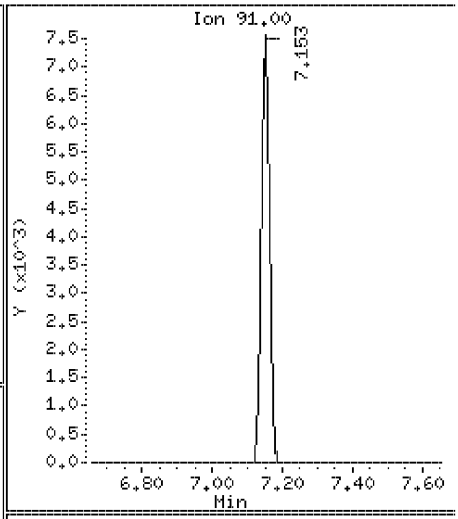
Column phase: J&W DB-5

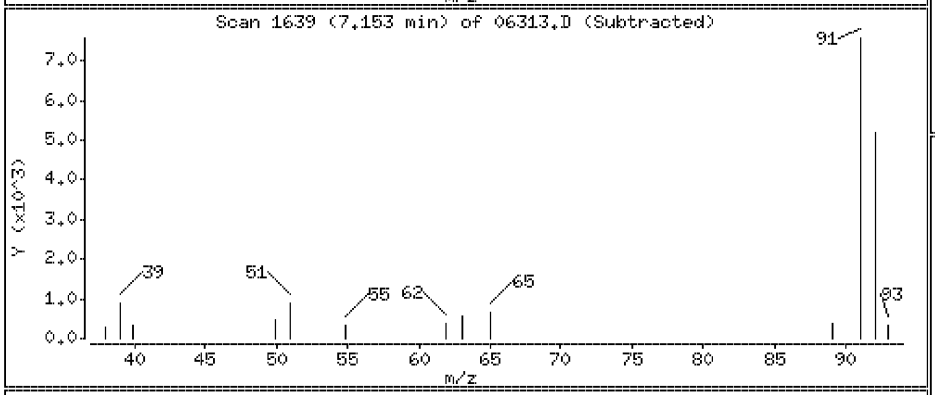
Column diameter: 0.32

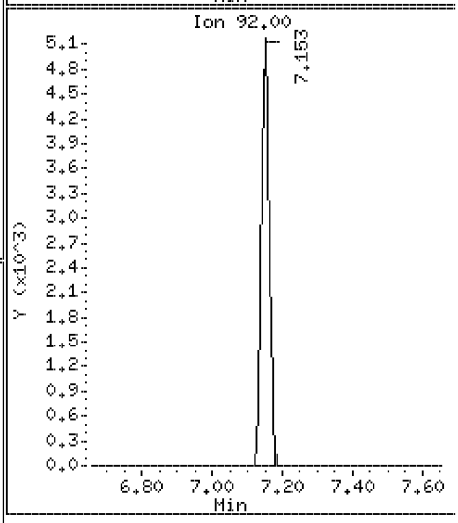
61 Toluene

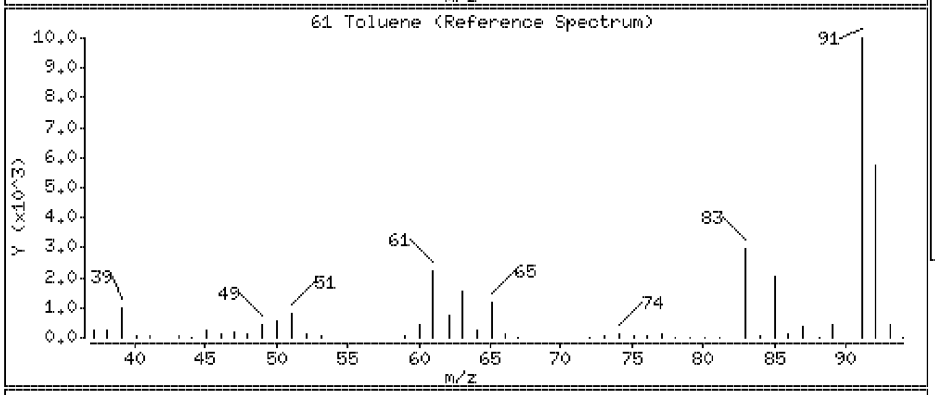
Concentration: 0.391 ppbv

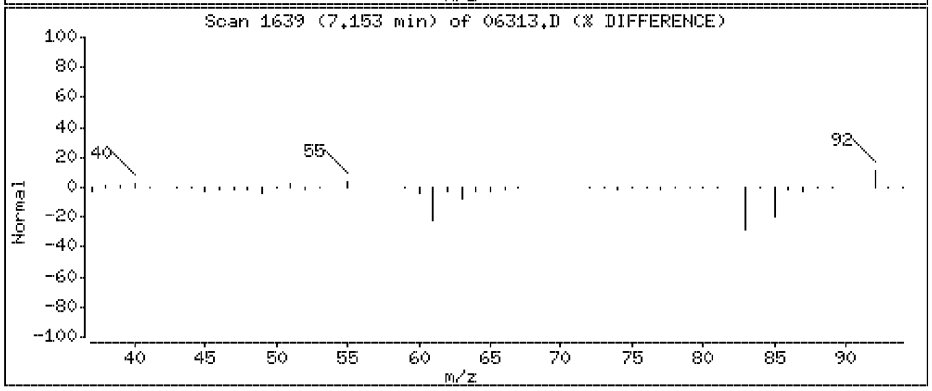












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

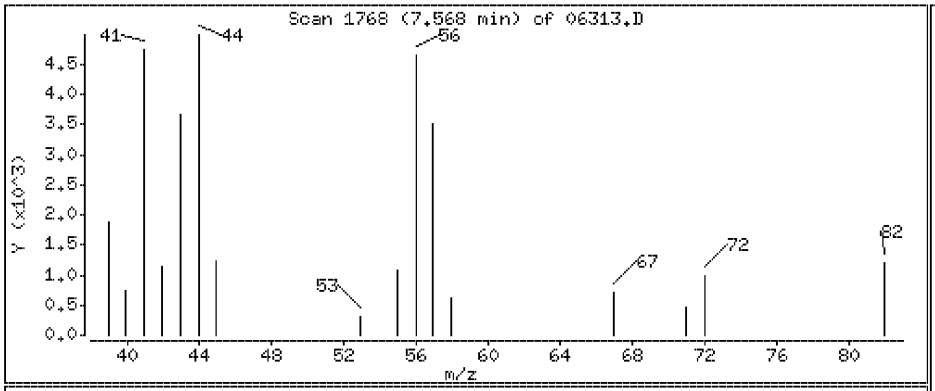
Operator: MJL

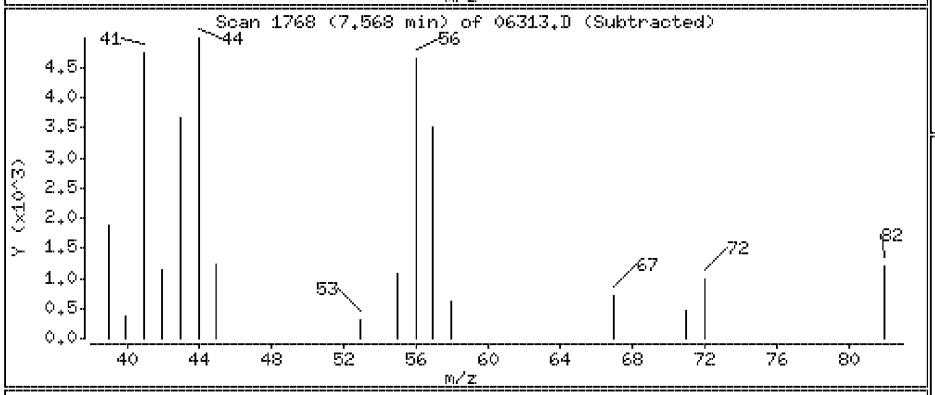
Column phase: J&W DB-5

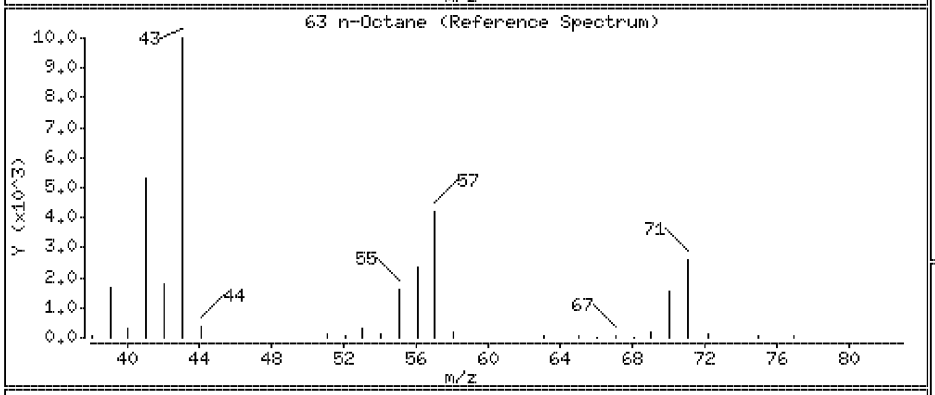
Column diameter: 0.32

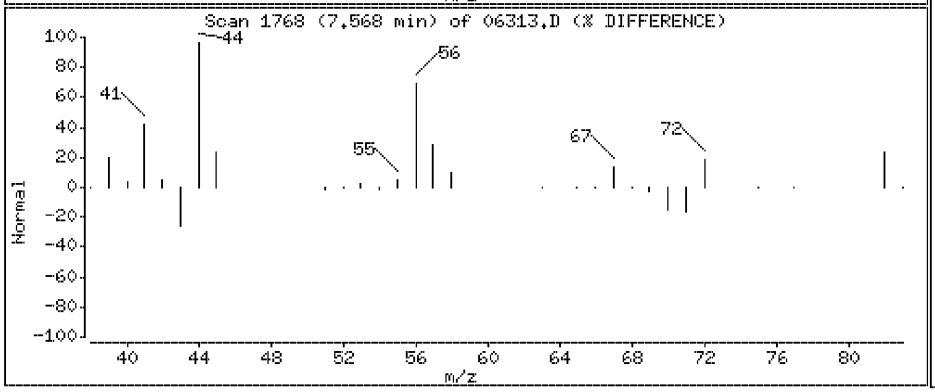
63 n-Octane

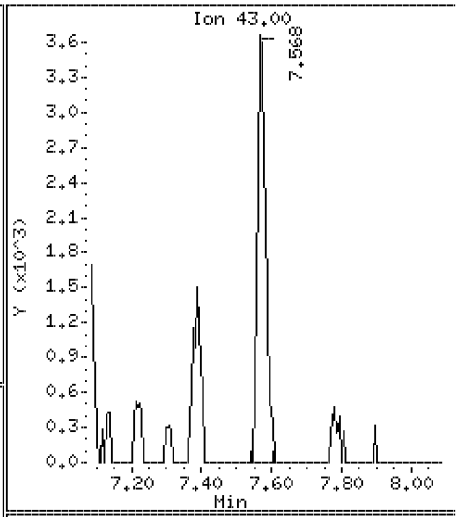
Concentration: 0.347 ppbv

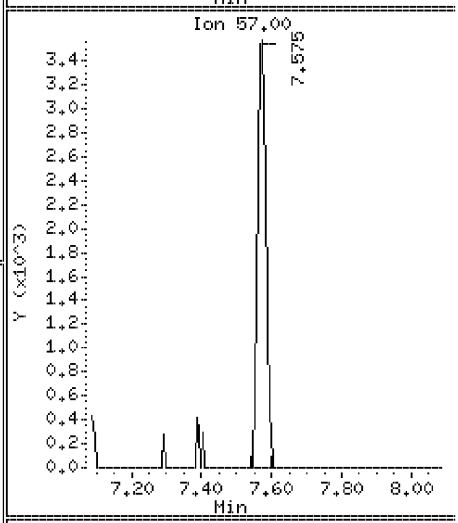


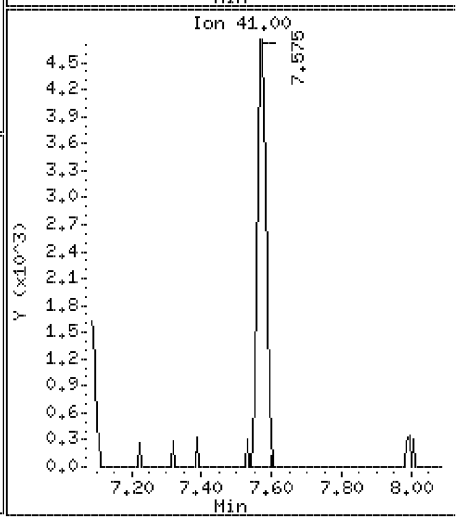












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

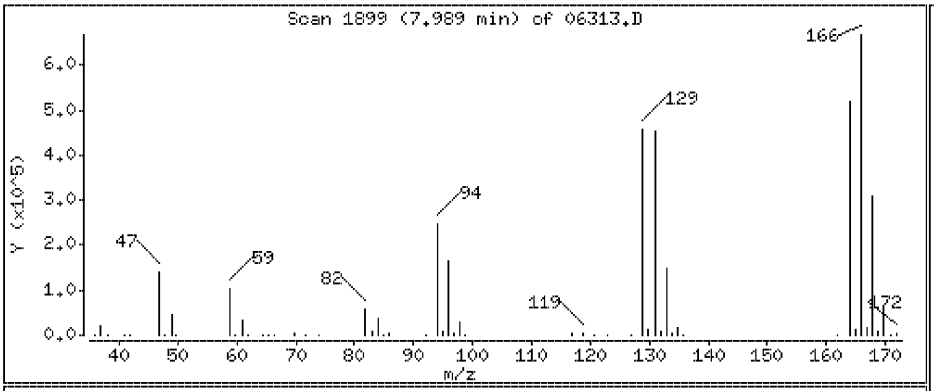
Operator: MJL

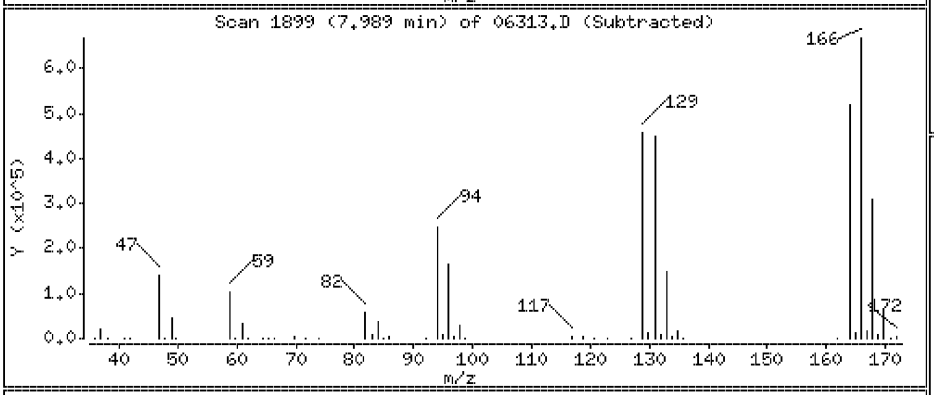
Column phase: J&W DB-5

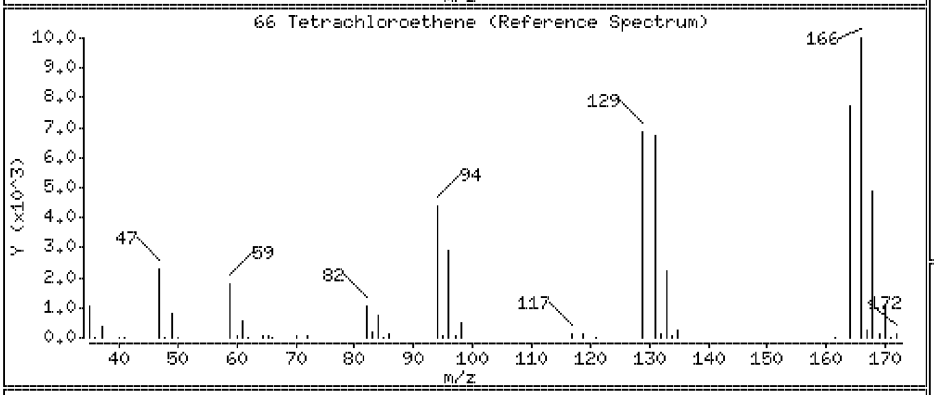
Column diameter: 0.32

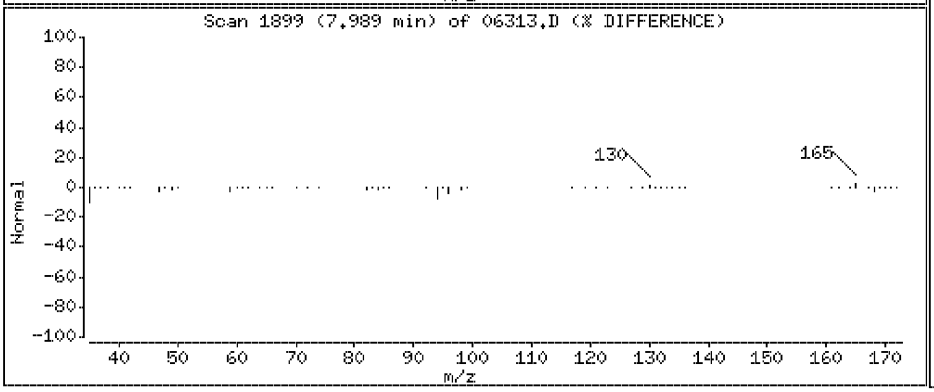
66 Tetrachloroethene

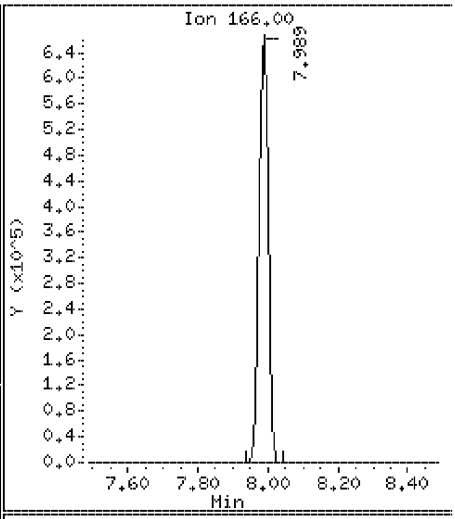
Concentration: 70.0 ppbv

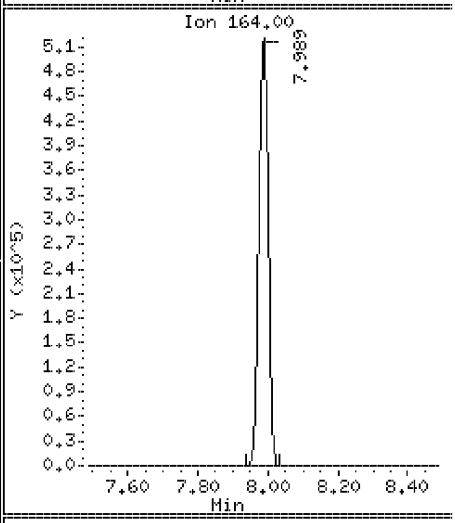


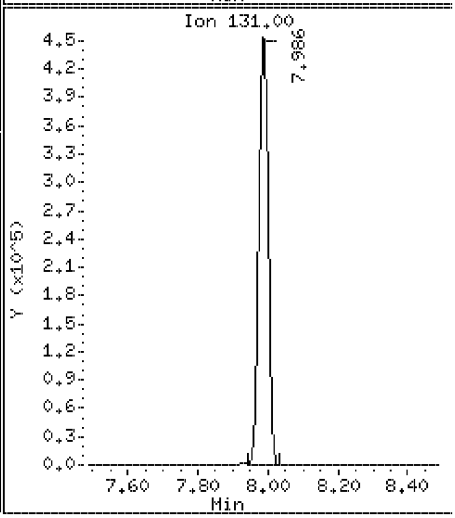












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

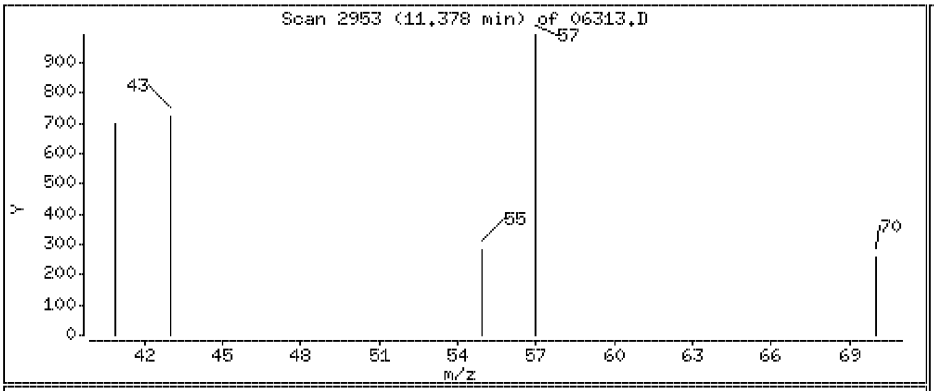
Operator: MJL

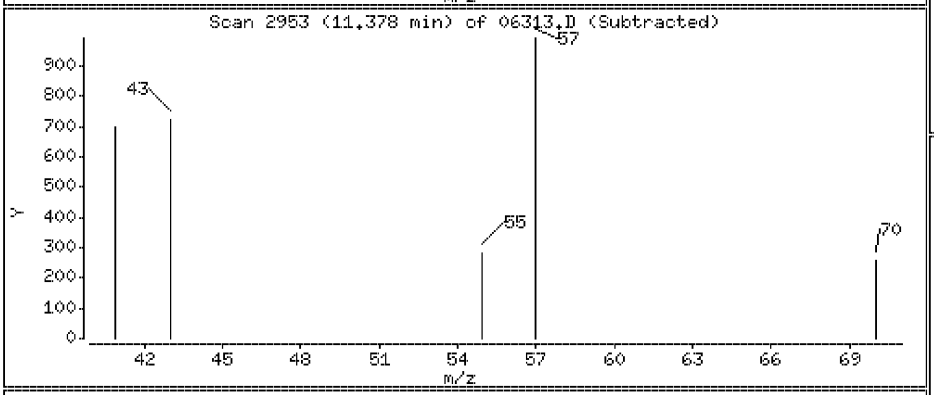
Column phase: J&W DB-5

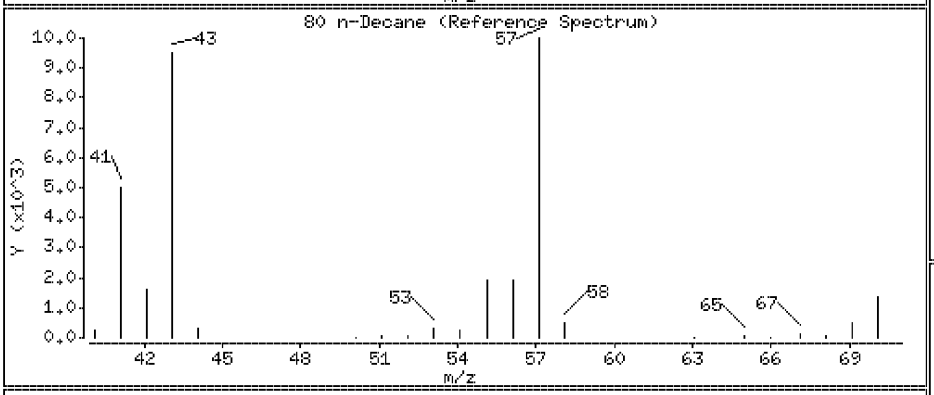
Column diameter: 0.32

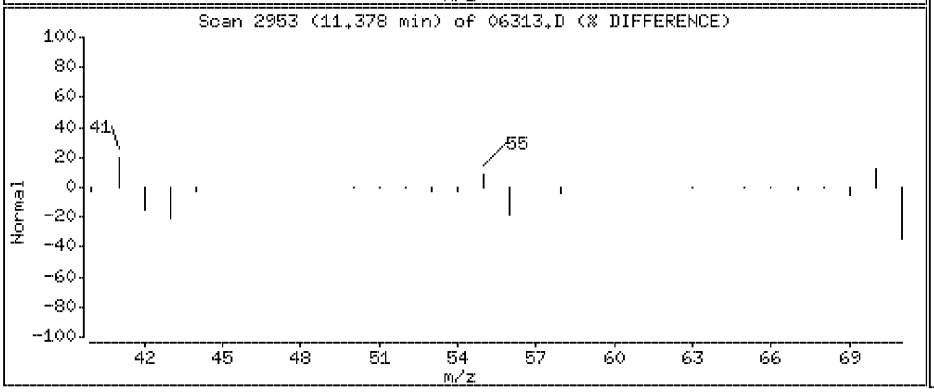
80 n-Decane

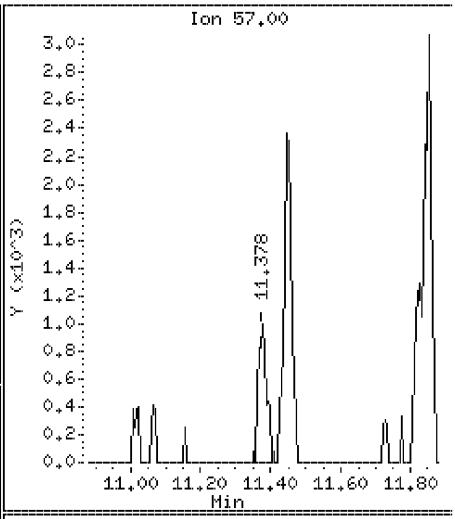
Concentration: 0.490 ppbv

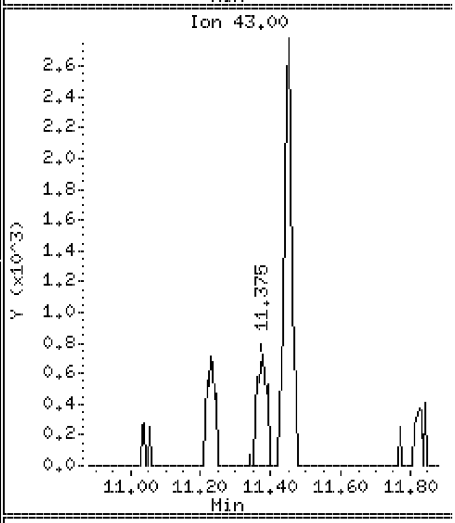


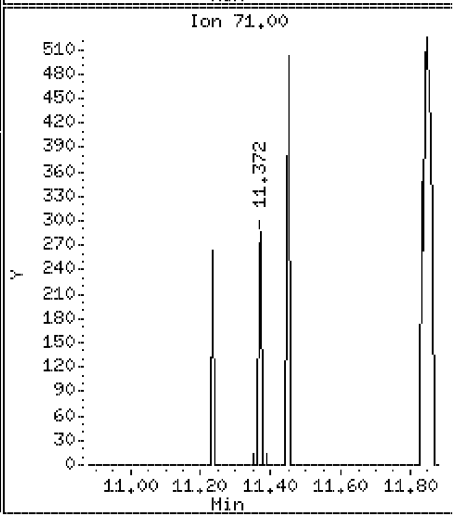












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06313.D

Date : 04-MAR-2017 12:51

Client ID:

Instrument: 10airB.i

Sample Info:

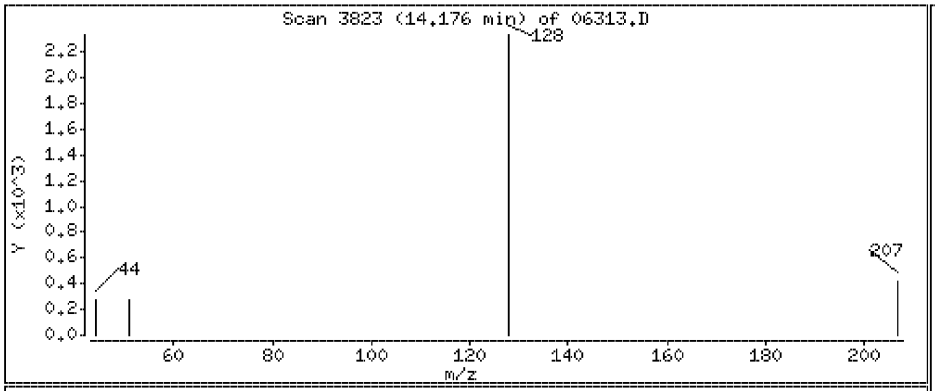
Operator: MJL

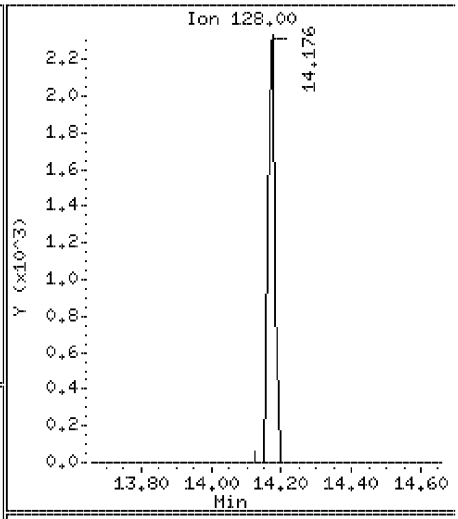
Column phase: J&W DB-5

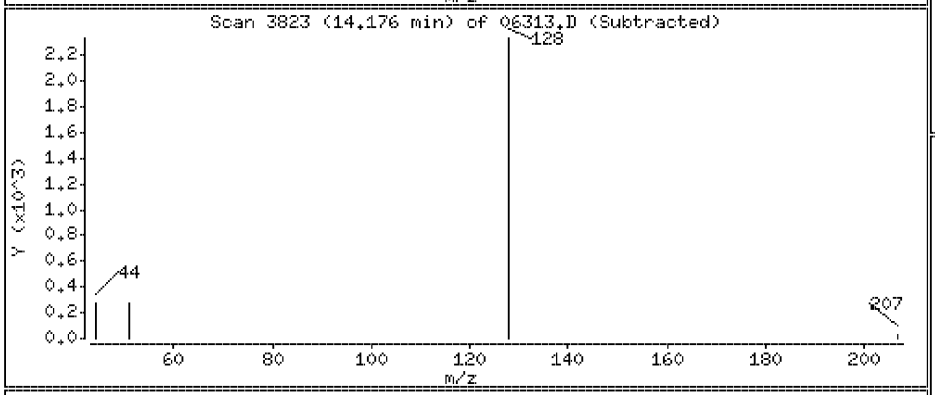
Column diameter: 0.32

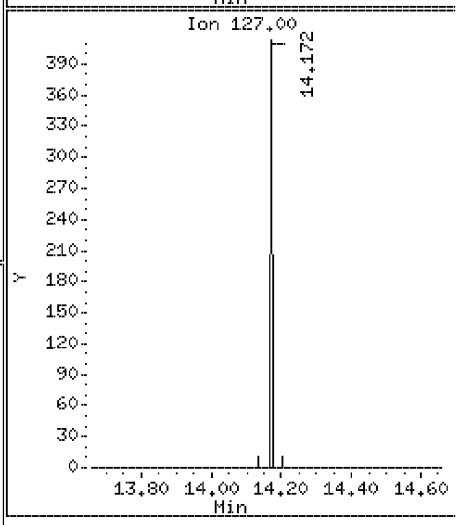
94 Naphthalene

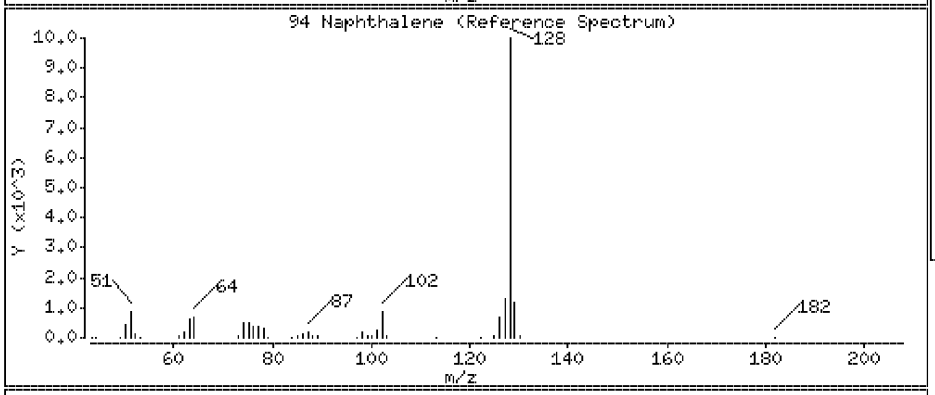
Concentration: 0.743 ppbv

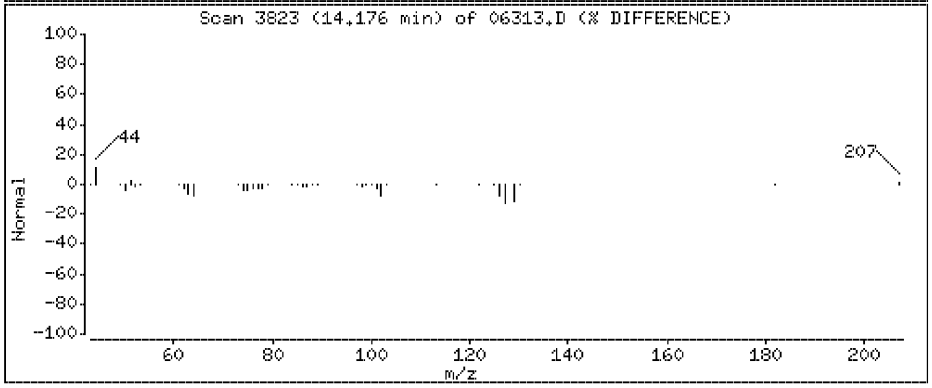






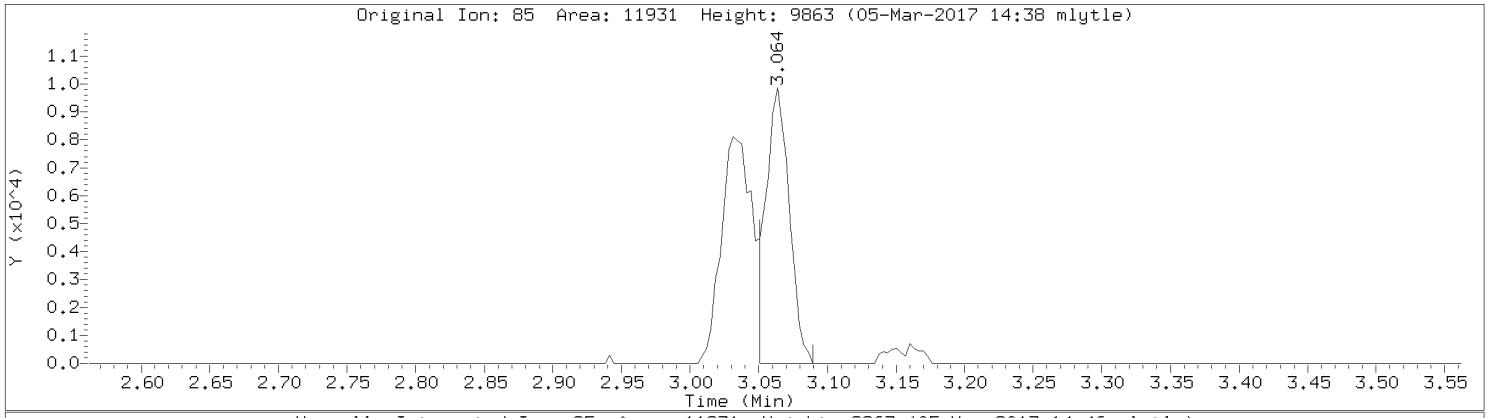


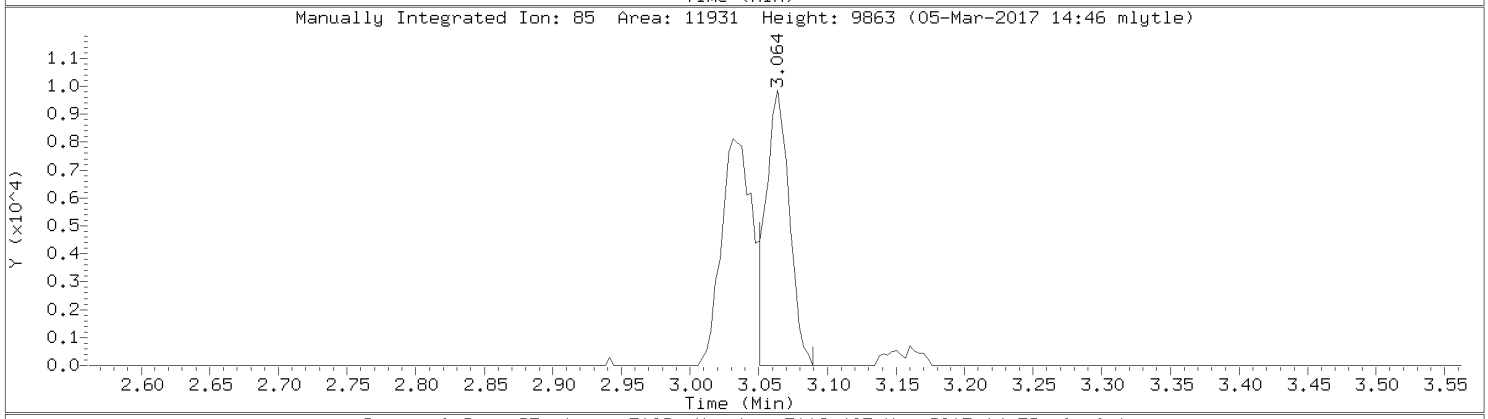


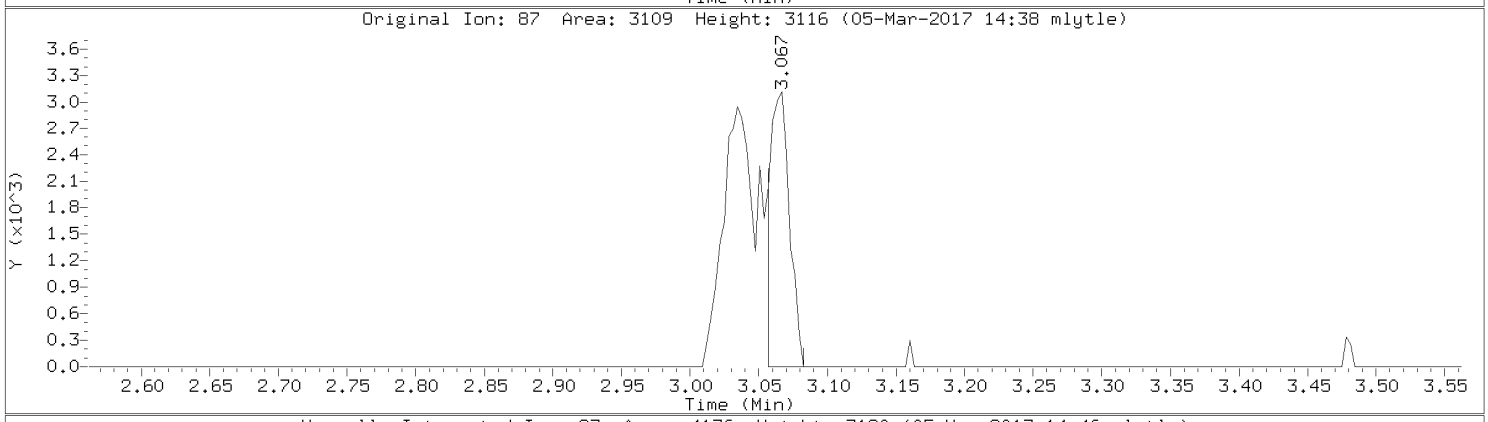


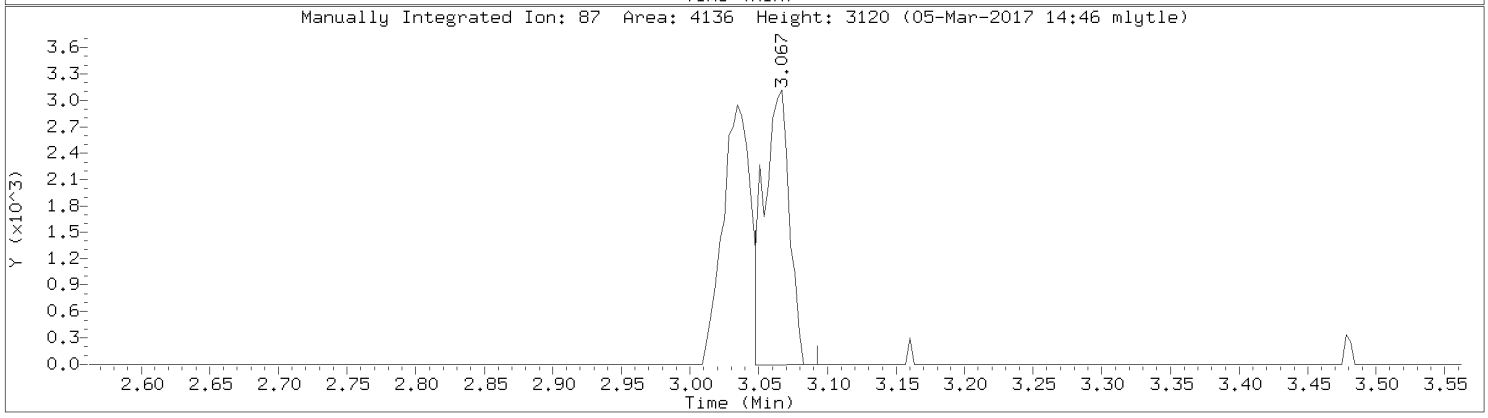
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06313.D
Injection Date: 04-MAR-2017 12:51
Instrument: 10airB.i
Lab Sample ID: 10379929008

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



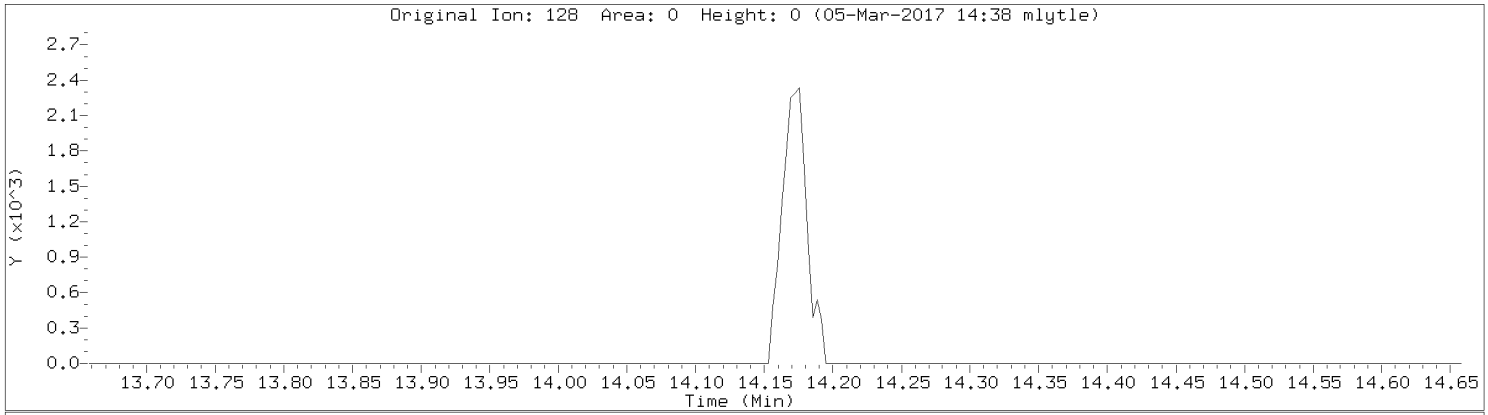


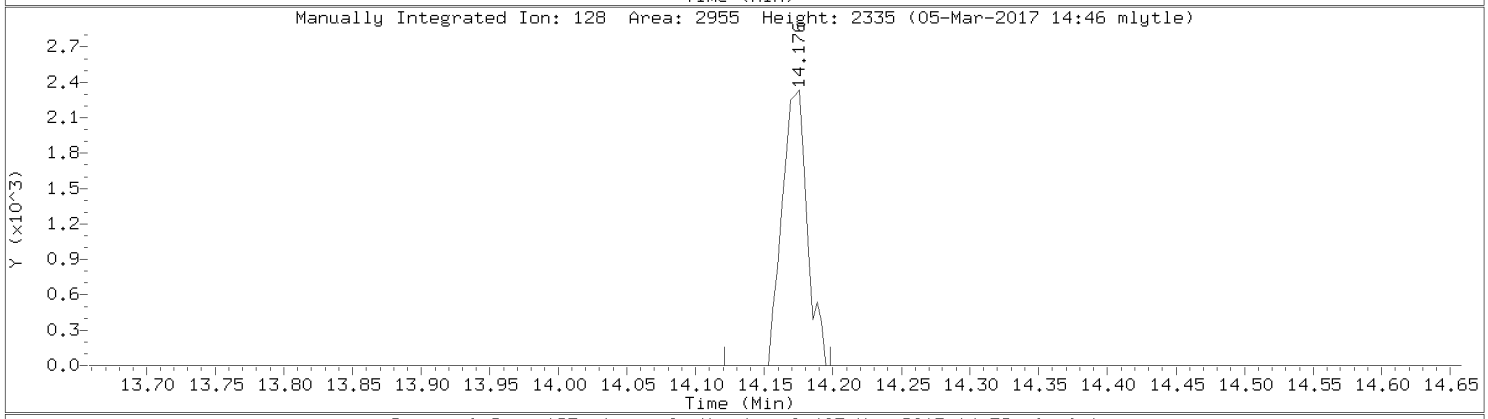


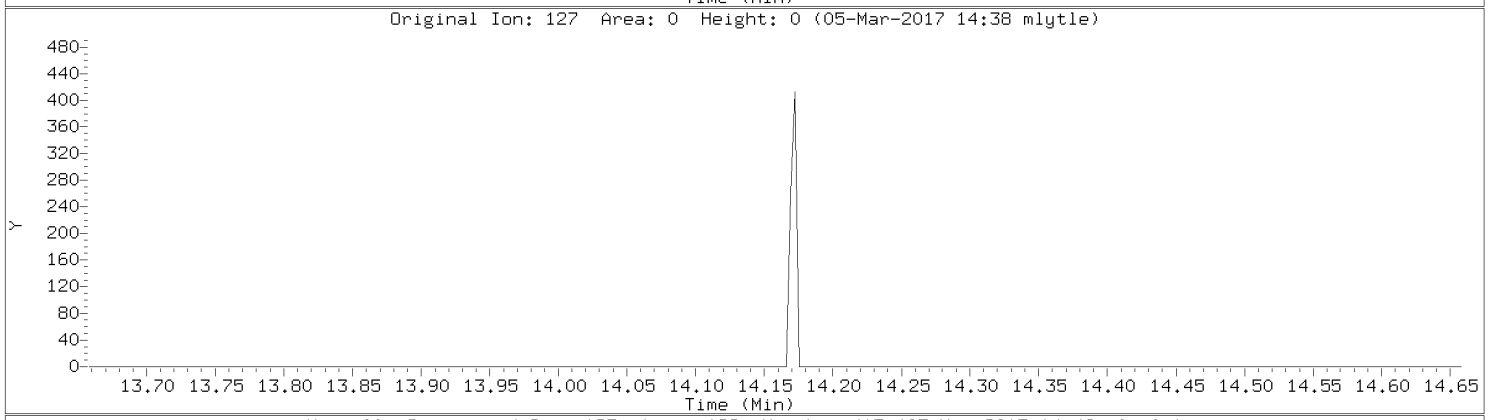


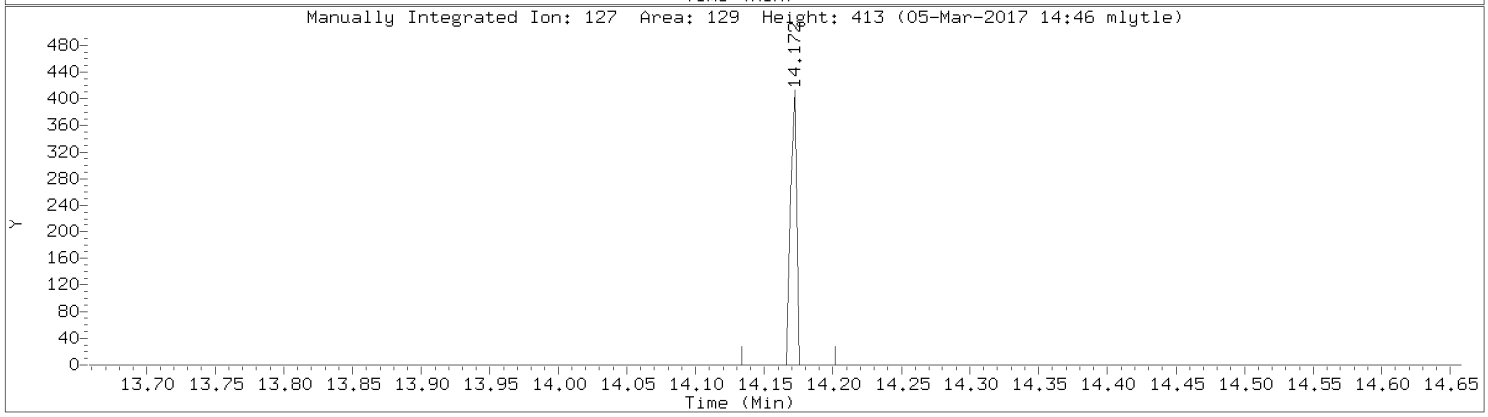
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06313.D
Injection Date: 04-MAR-2017 12:51
Instrument: 10airB.i
Lab Sample ID: 10379929008

Compound: Naphthalene
CAS Number: 91-20-3



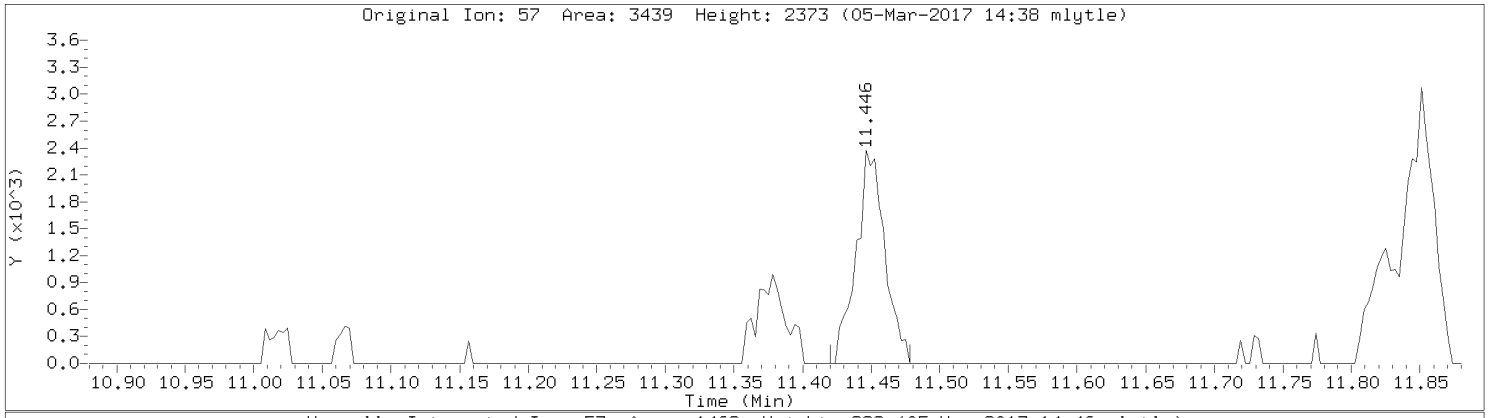


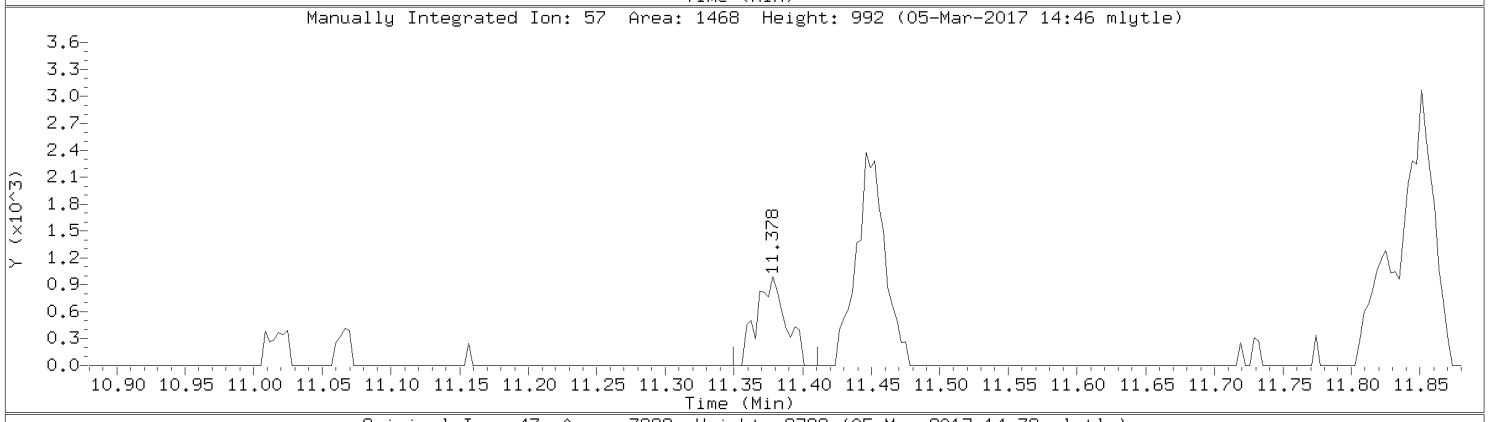


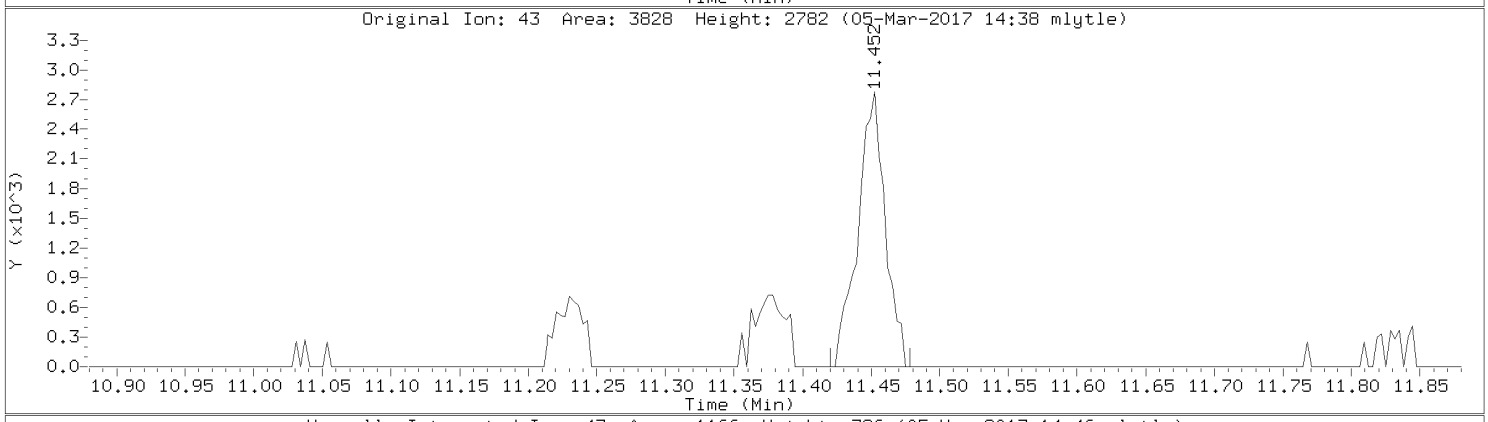


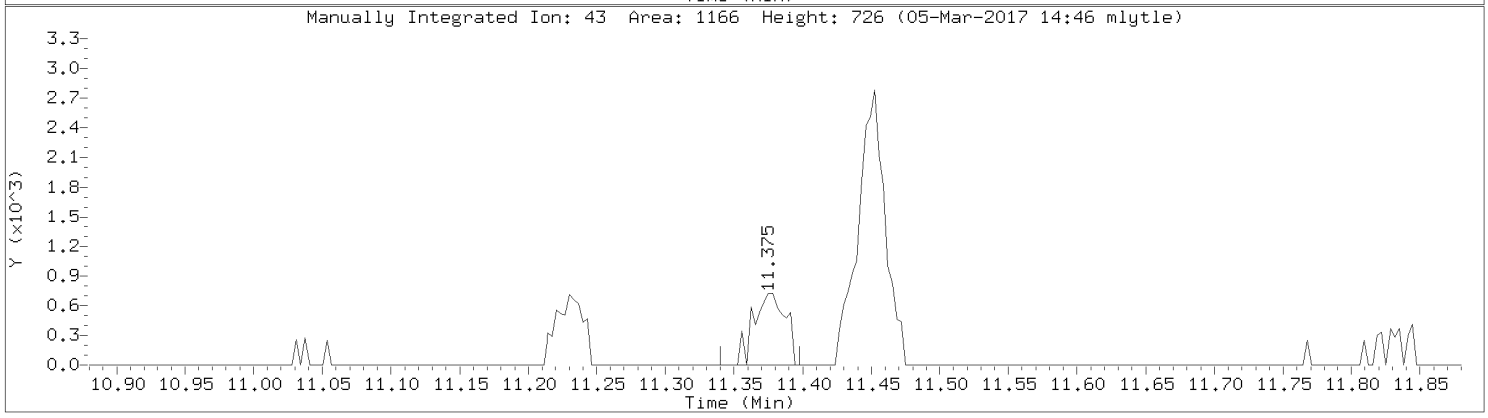
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06313.D
Injection Date: 04-MAR-2017 12:51
Instrument: 10airB.i
Lab Sample ID: 10379929008

Compound: n-Decane
CAS Number: 124-18-5

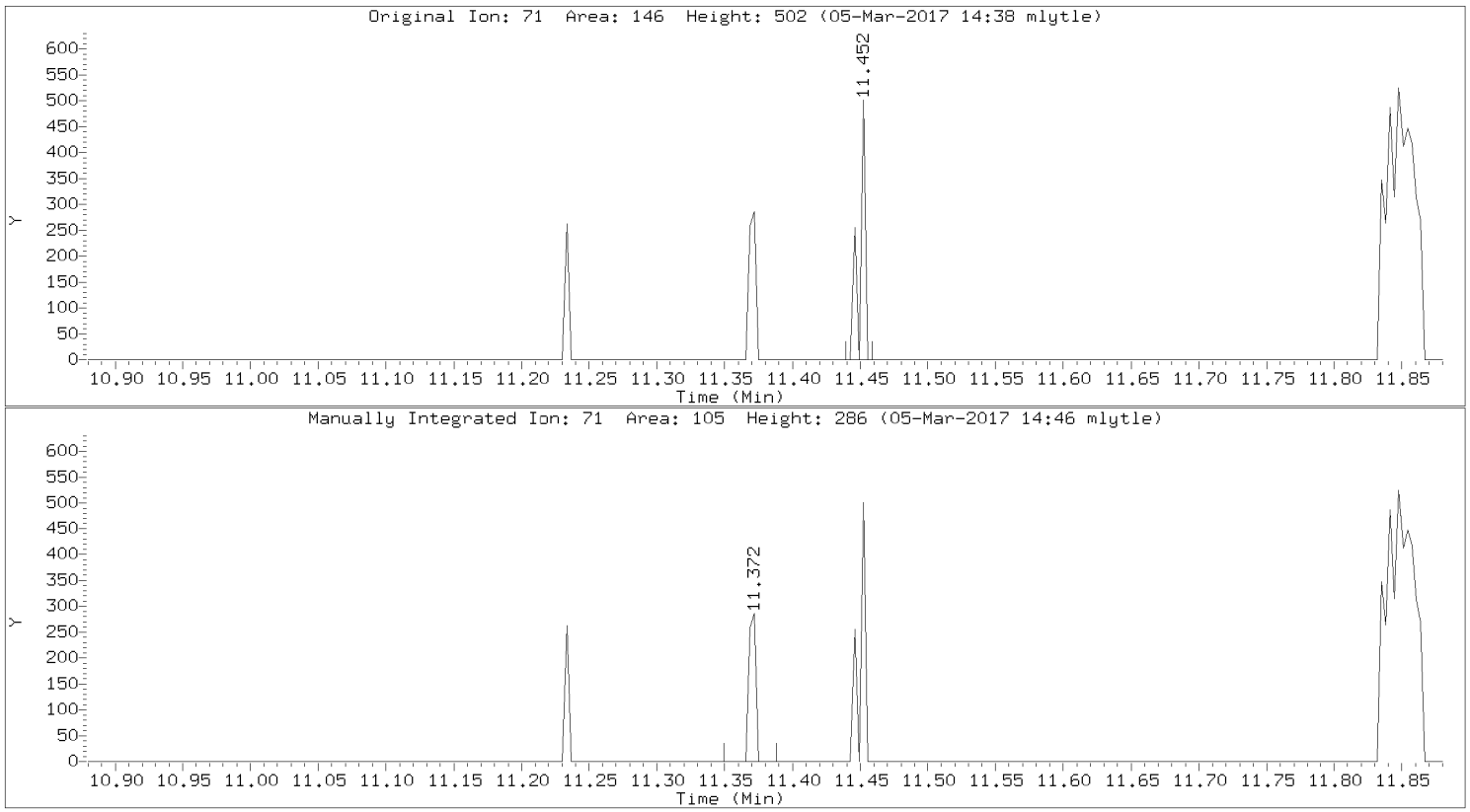








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06313.D
Injection Date: 04-MAR-2017 12:51
Instrument: 10airB.i
Lab Sample ID: 10379929008



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: FPM-20_5_20170221 **Lab ID: 10379929009** Collected: 02/21/17 13:47 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**28.1**	ug/m3	4.4	1.5	1.83		03/04/17 13:23	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 13:23	107-05-1	
Benzene	**1.6**	ug/m3	0.59	0.22	1.83		03/04/17 13:23	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 13:23	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 13:23	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 13:23	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 13:23	106-99-0	
2-Butanone (MEK)	**1.3J**	ug/m3	5.5	0.42	1.83		03/04/17 13:23	78-93-3	
Carbon disulfide	**1.3**	ug/m3	1.2	0.18	1.83		03/04/17 13:23	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/04/17 13:23	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 13:23	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 13:23	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 13:23	75-00-3	
Chloroform	**<0.35**	ug/m3	0.91	0.35	1.83		03/04/17 13:23	67-66-3	
Chloromethane	**1.1**	ug/m3	0.77	0.20	1.83		03/04/17 13:23	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 13:23	76-15-3	
Cyclohexane	**1.3J**	ug/m3	1.3	0.58	1.83		03/04/17 13:23	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 13:23	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 13:23	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 13:23	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 13:23	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 13:23	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 13:23	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.8	0.88	1.83		03/04/17 13:23	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 13:23	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 13:23	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 13:23	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/04/17 13:23	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/04/17 13:23	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 13:23	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 13:23	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 13:23	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 13:23	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 13:23	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 13:23	123-91-1	
Ethylbenzene	**10.1**	ug/m3	1.6	0.78	1.83		03/04/17 13:23	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 13:23	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 13:23	87-68-3	
n-Hexane	**2.5**	ug/m3	1.3	0.65	1.83		03/04/17 13:23	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/04/17 13:23	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 13:23	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 13:23	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 13:23	108-87-2	
Methylene Chloride	**13.5**	ug/m3	6.5	0.99	1.83		03/04/17 13:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 13:23	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 13:23	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D
Report Date: 05-Mar-2017 14:49

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06314.D
Lab Smp Id: 10379929009
Inj Date : 04-MAR-2017 13:23
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 14
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.002	3.018	(0.536)	34056	5.05165	9.24(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.050	3.060	(0.545)	12072	0.29314	0.536	
6	Chloromethane	50	3.143	3.156	(0.561)	3705	0.28043	0.513	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.545	(0.633)	42301	10.0116	18.3	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.577	3.600	(0.639)	18694	1.49863	2.74	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.655	3.674	(0.653)	4549	0.14430	0.264	
17	Acrolein	56	3.674	3.684	(0.656)	303	0.26308	0.481(QH)	
18	Acetone	43	3.719	3.722	(0.664)	116199	6.36878	11.7	
19	Isopropyl Alcohol	45	3.761	3.767	(0.672)	210927	11.3356	20.7	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D
Report Date: 05-Mar-2017 14:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.979	4.005	(0.711)	26818	2.08254	3.81	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	4.102	4.127	(0.732)	5526	0.22785	0.417(M)	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.800)	379764	10.3804	10.4	
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.813)	871	0.23191	0.424(Q)	
	34 n-Hexane	57	4.574	4.584	(0.817)	6969	0.38005	0.695(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.452	5.468	(0.974)	9727	0.26229	0.480	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.481	5.487	(0.979)	3695	0.19903	0.364(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1149910	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						(D)
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	995211	9.66974	9.67	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.276)	28078	0.60457	1.11	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	780258	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.928	8.934	(1.033)	71635	1.24825	2.28	
	70 m&p-Xylene	91	9.072	9.082	(1.050)	241451	5.36043	9.81	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.500	9.507	(1.100)	3712	0.17067	0.312	
	74 o-Xylene	91	9.574	9.581	(1.108)	62530	1.36454	2.50	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D
Report Date: 05-Mar-2017 14:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	11.387	11.378	(2.033)	6162	0.44179	0.808(QM)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	450069	10.4712	10.5	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.156	(1.641)	2627	0.42123	0.771(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D
Report Date: 05-Mar-2017 14:49

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06314.D
Lab Smp Id: 10379929009
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

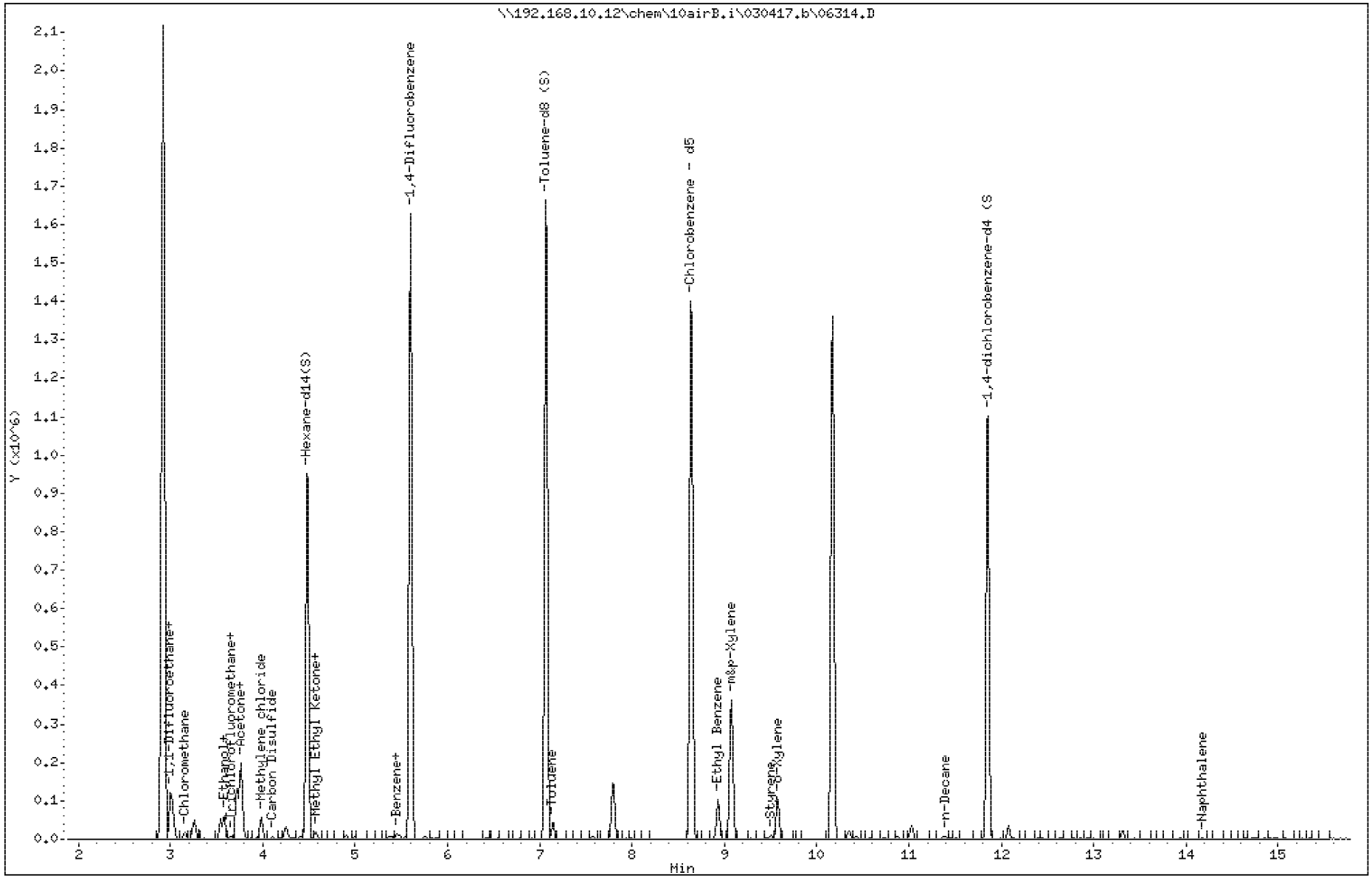
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1149910	-18.68
67 Chlorobenzene - d	951026	570616	1331436	780258	-17.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D
Date : 04-MAR-2017 13:23
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

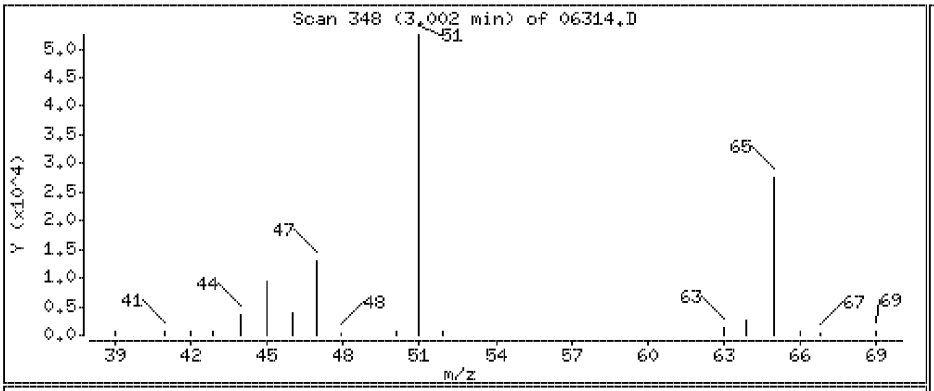
Operator: MJL

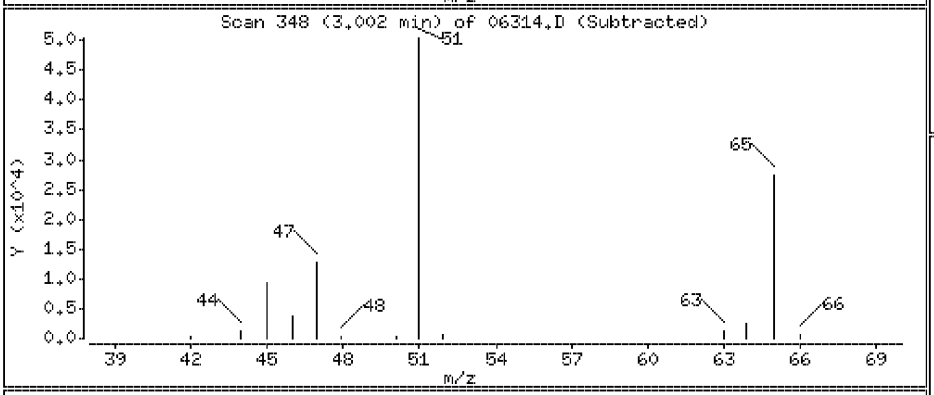
Column phase: J&W DB-5

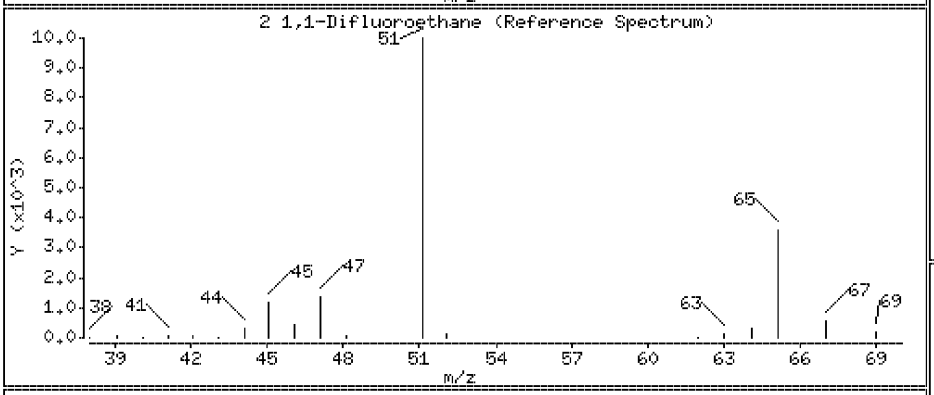
Column diameter: 0.32

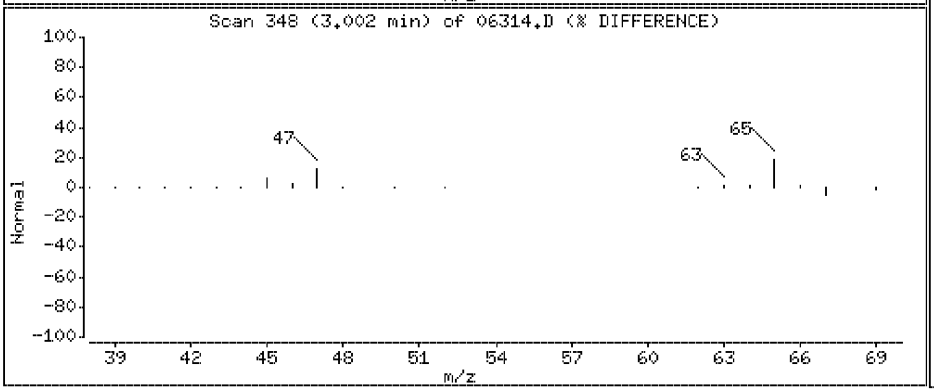
2 1,1-Difluoroethane

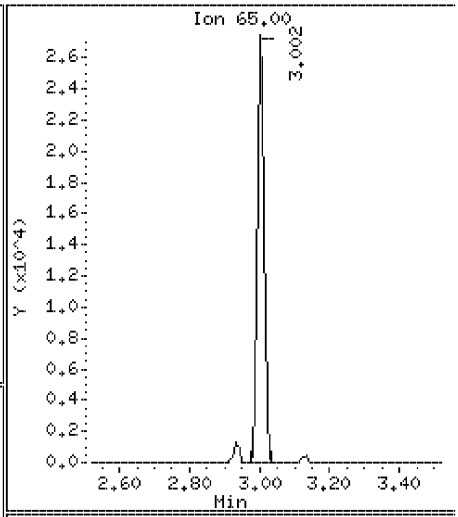
Concentration: 9.24 ppbv

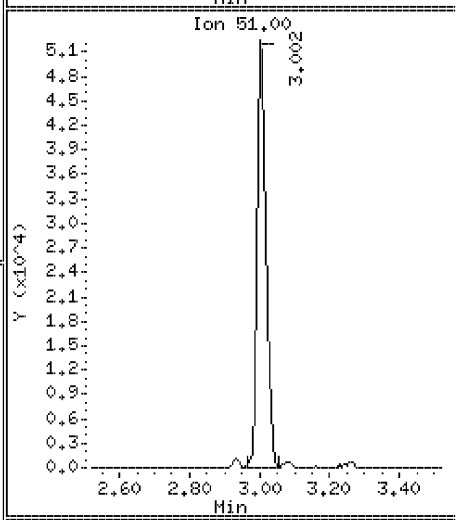


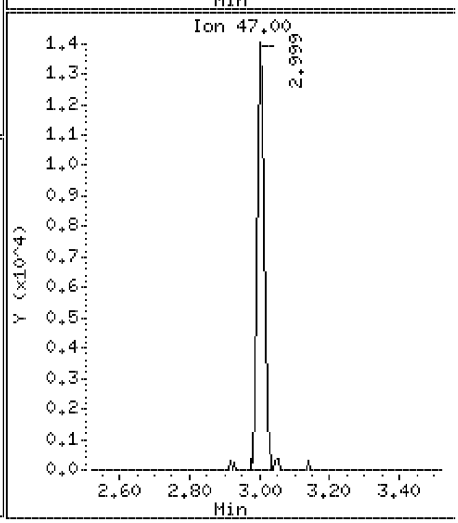












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

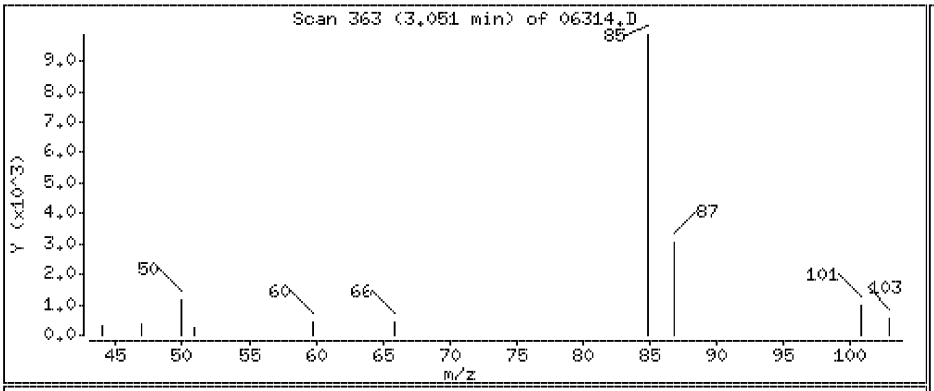
Operator: MJL

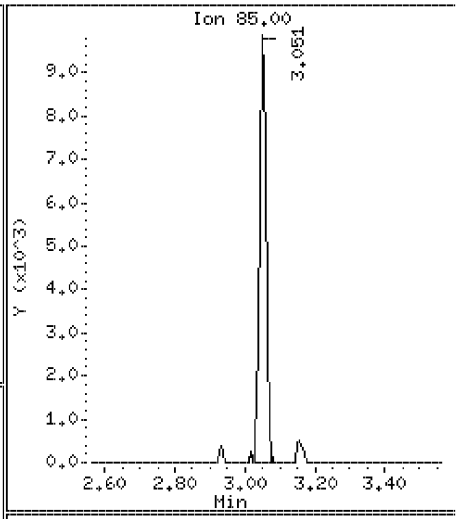
Column phase: J&W DB-5

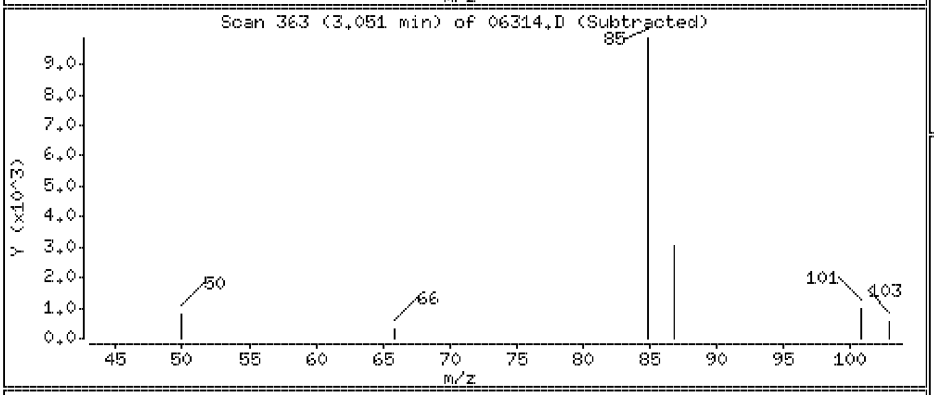
Column diameter: 0.32

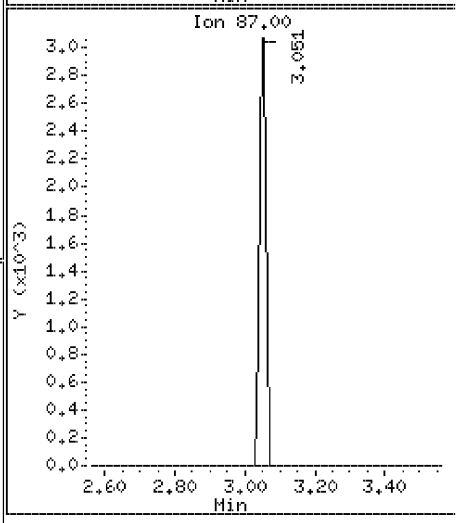
5 Dichlorodifluoromethane

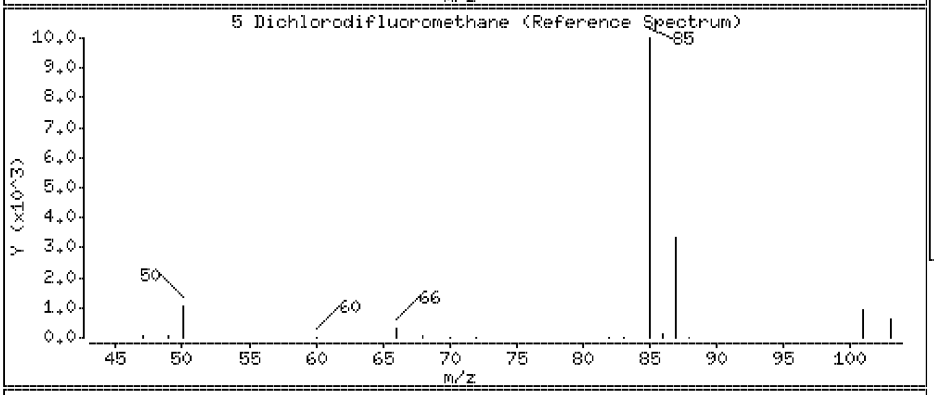
Concentration: 0.536 ppbv

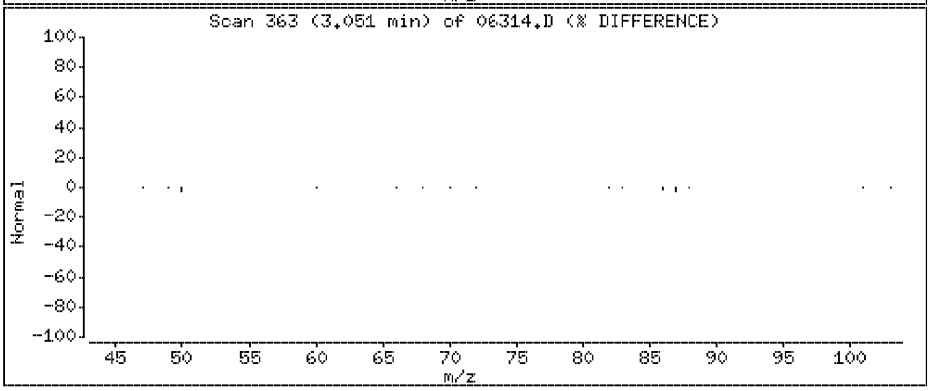












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

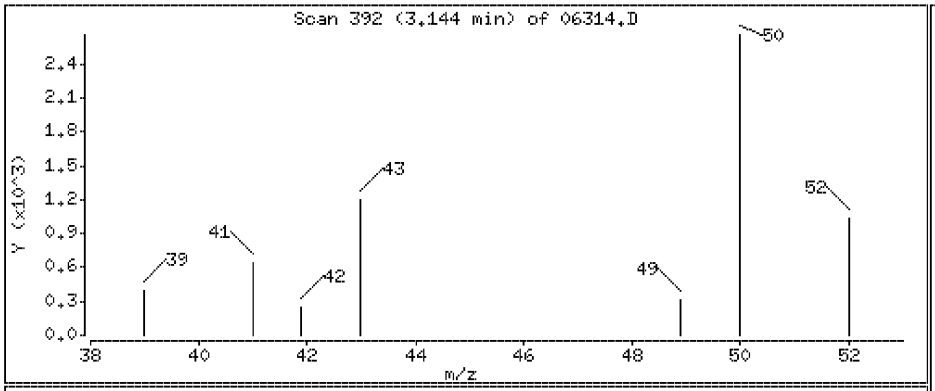
Operator: MJL

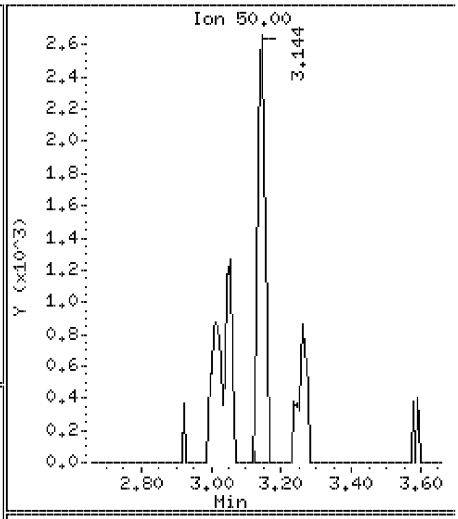
Column phase: J&W DB-5

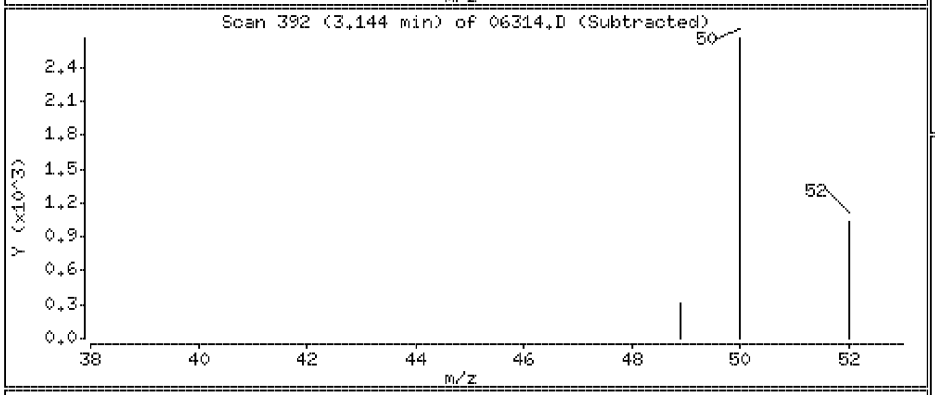
Column diameter: 0.32

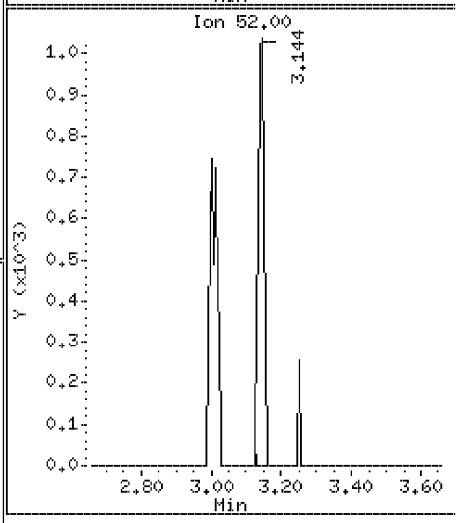
6 Chloromethane

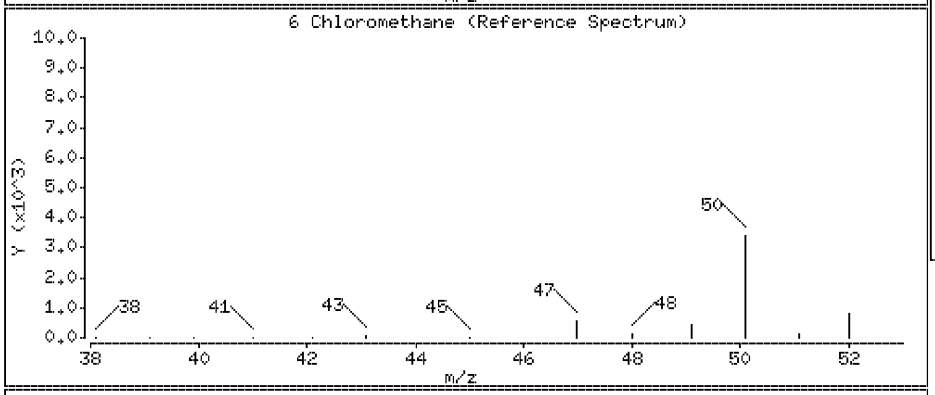
Concentration: 0.513 ppbv

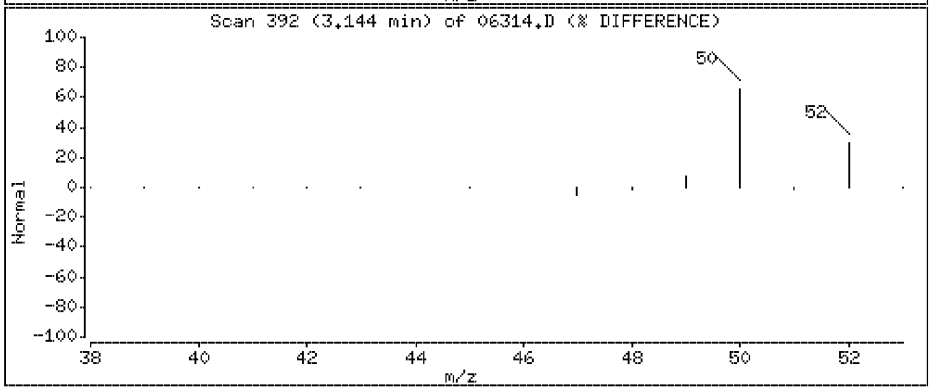












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

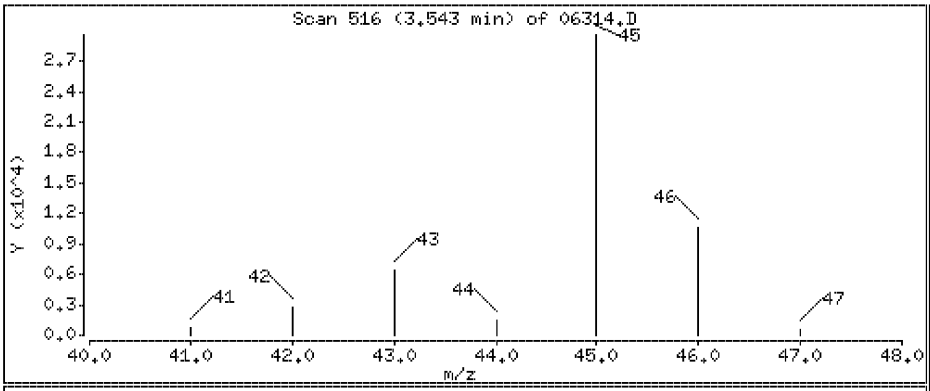
Operator: MJL

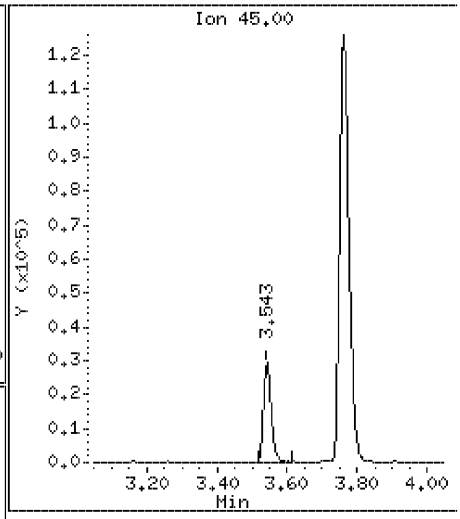
Column phase: J&W DB-5

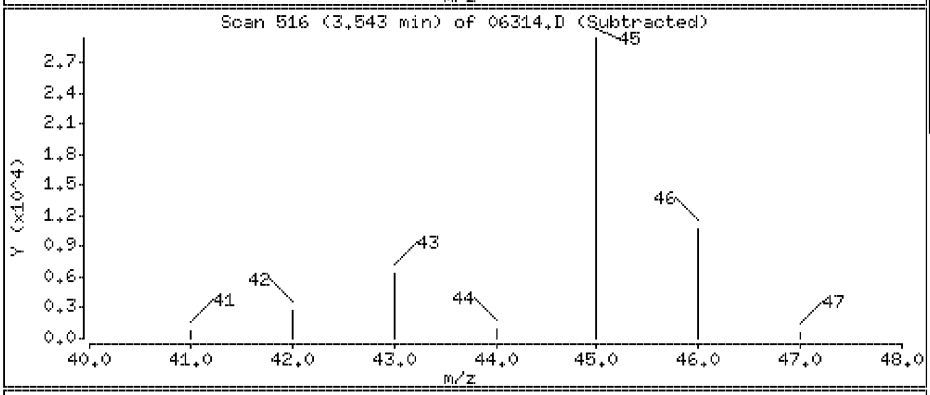
Column diameter: 0.32

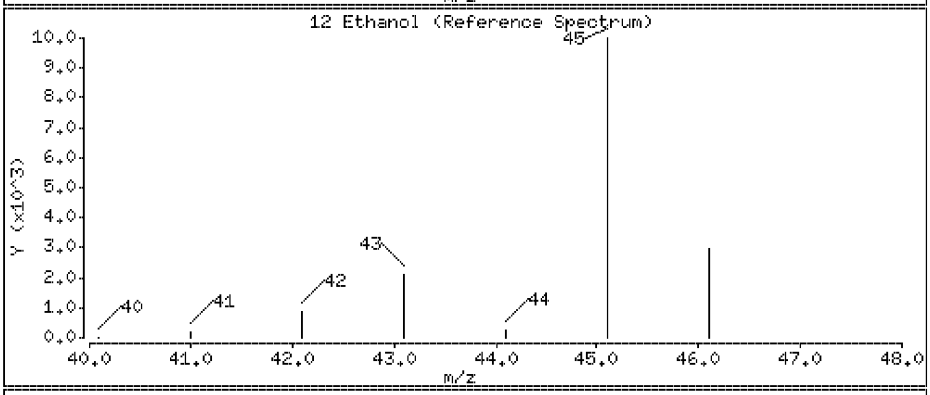
12 Ethanol

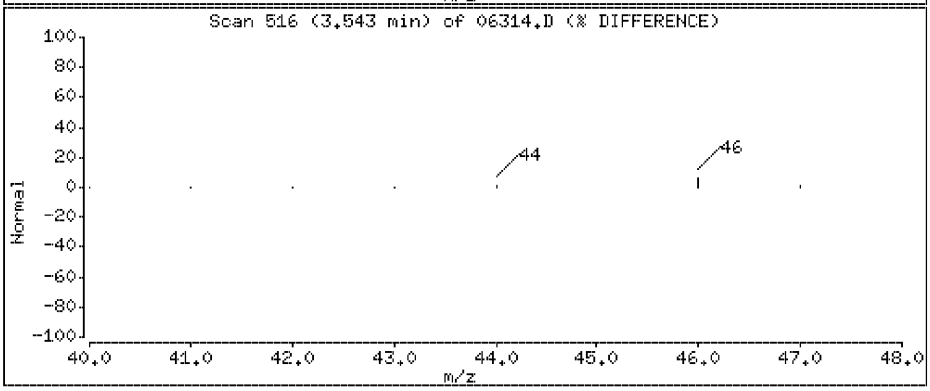
Concentration: 18.3 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

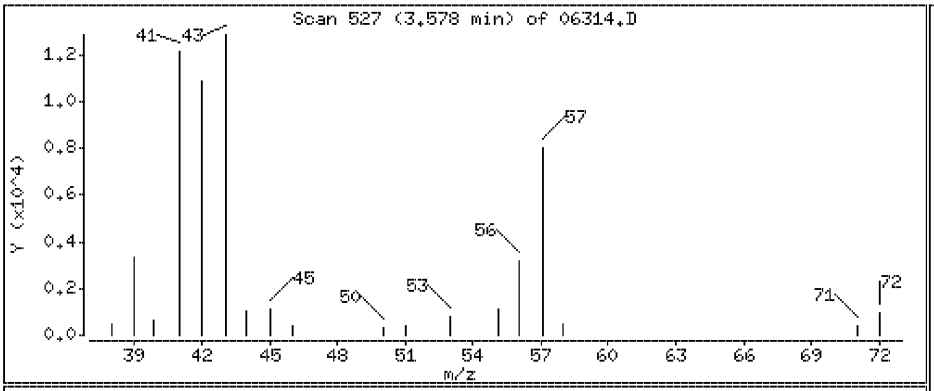
Operator: MJL

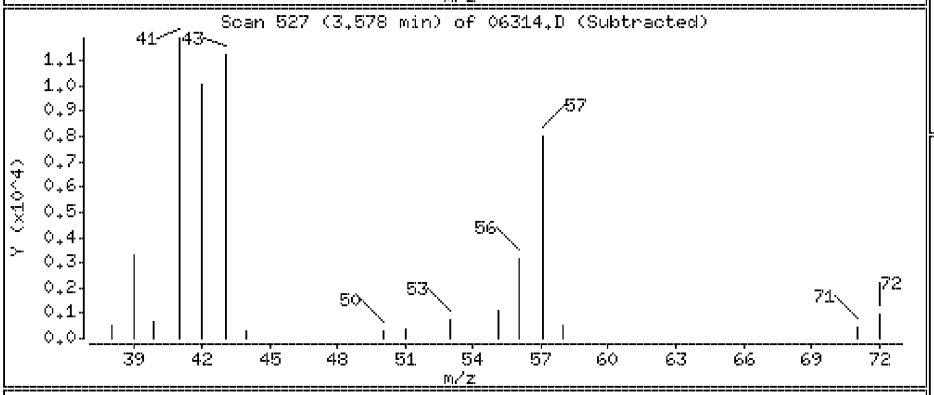
Column phase: J&W DB-5

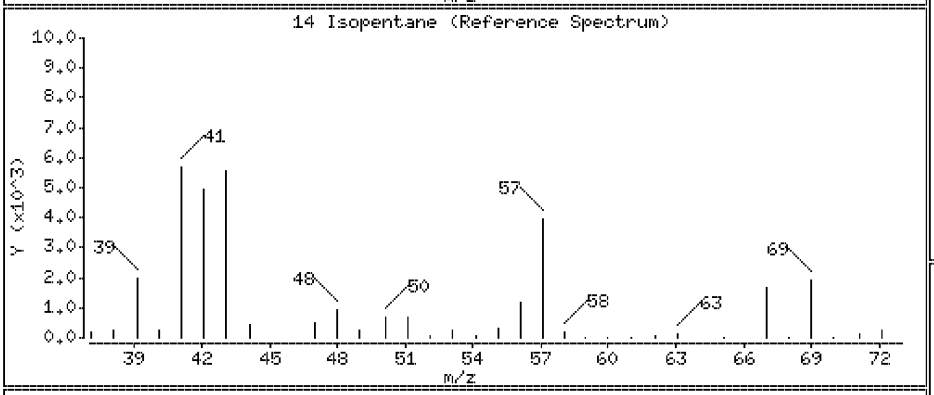
Column diameter: 0.32

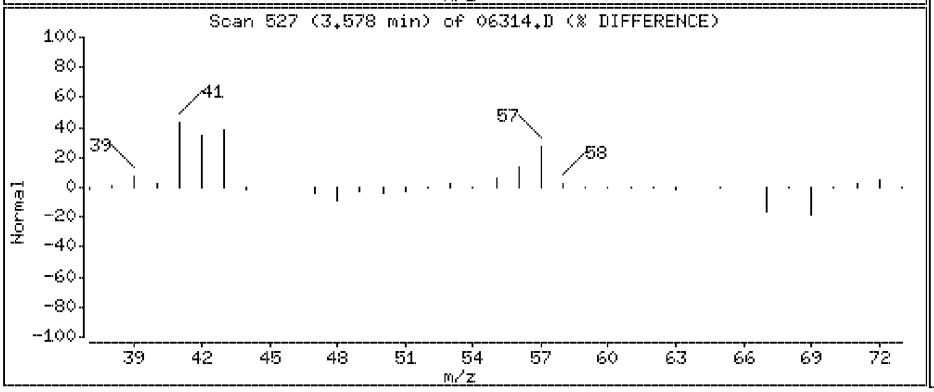
14 Isopentane

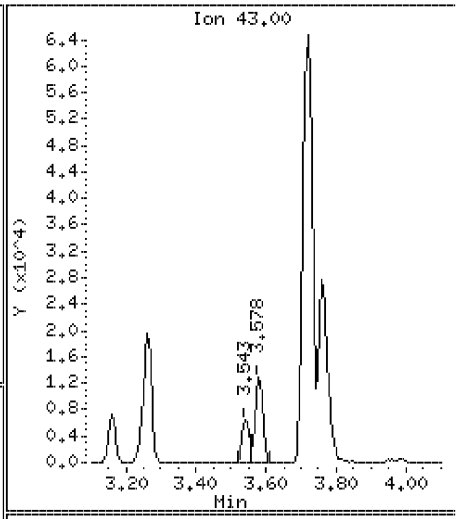
Concentration: 2.74 ppbv

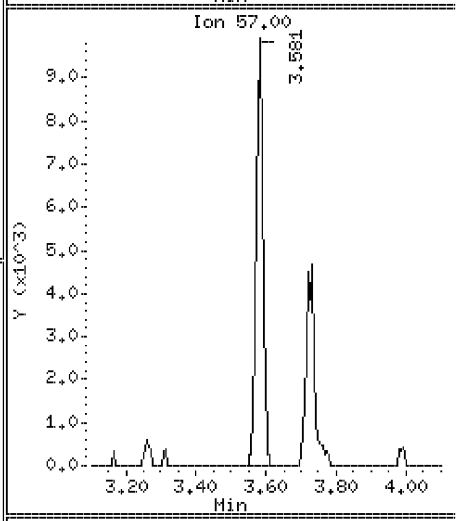


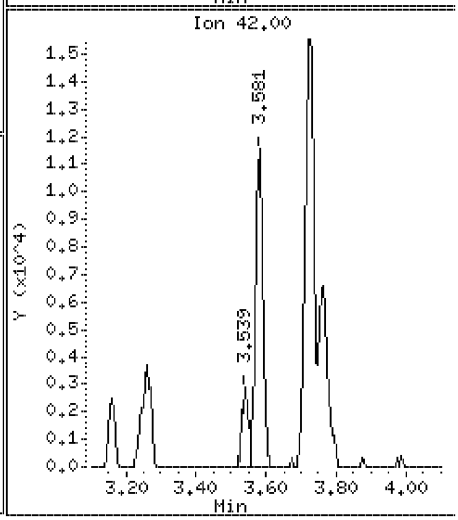












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

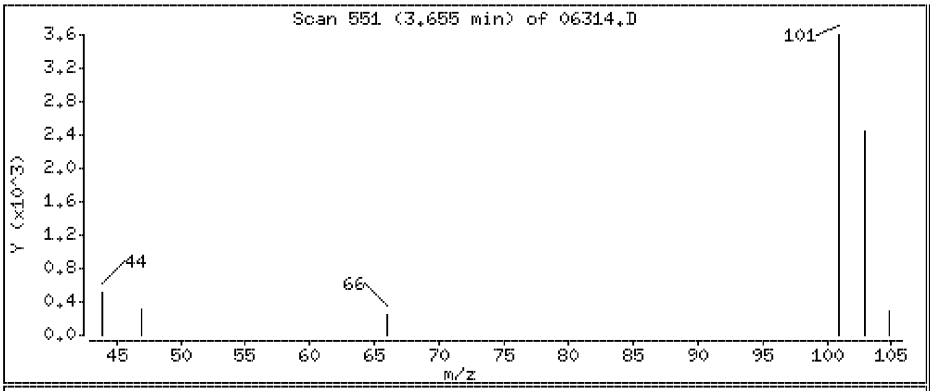
Operator: MJL

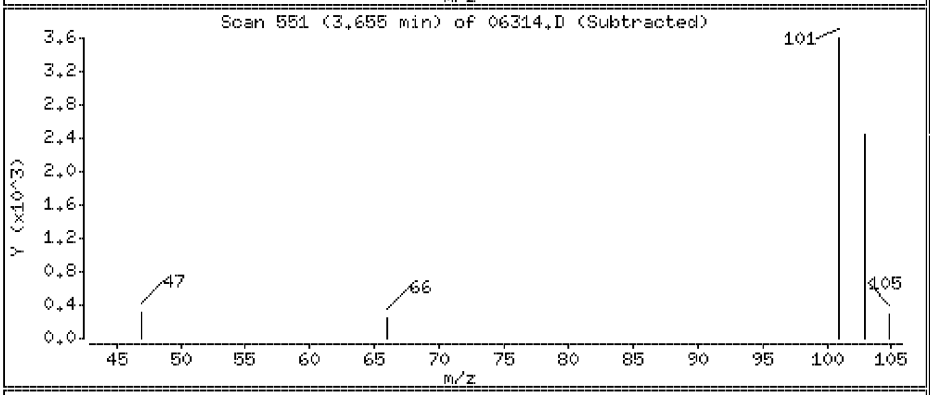
Column phase: J&W DB-5

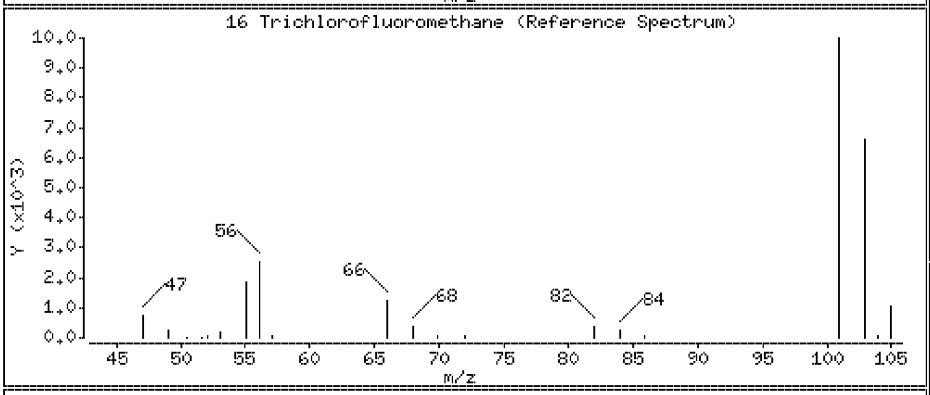
Column diameter: 0.32

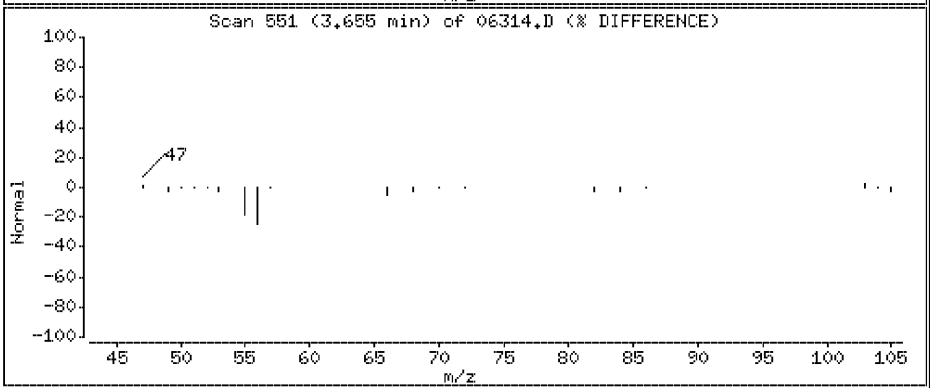
16 Trichlorofluoromethane

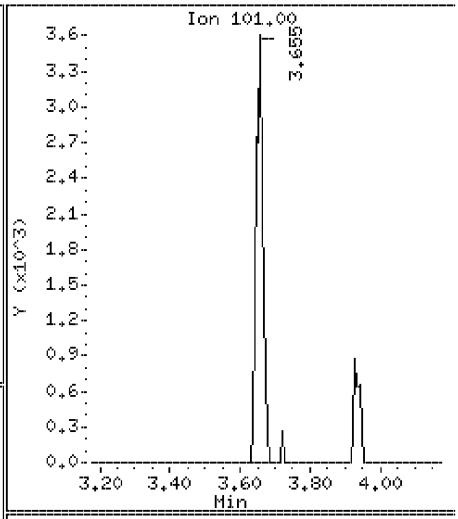
Concentration: 0.264 ppbv

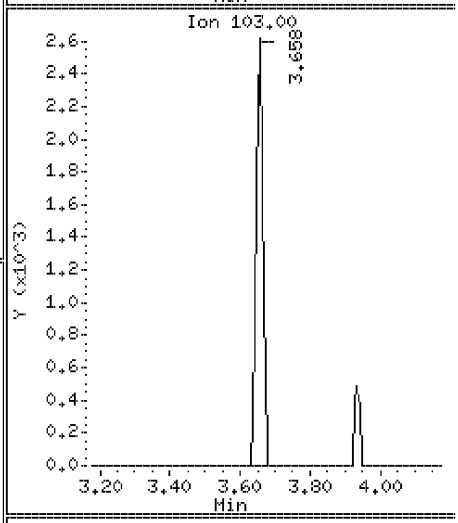


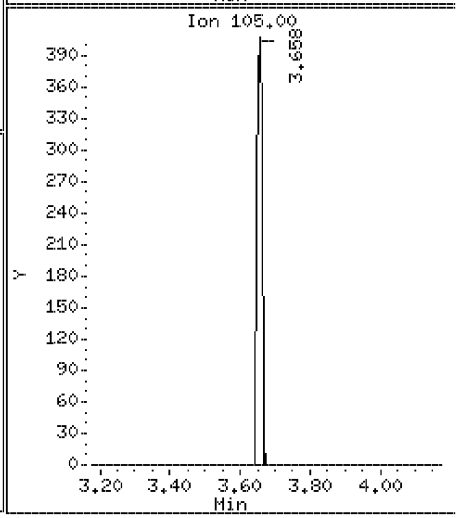












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

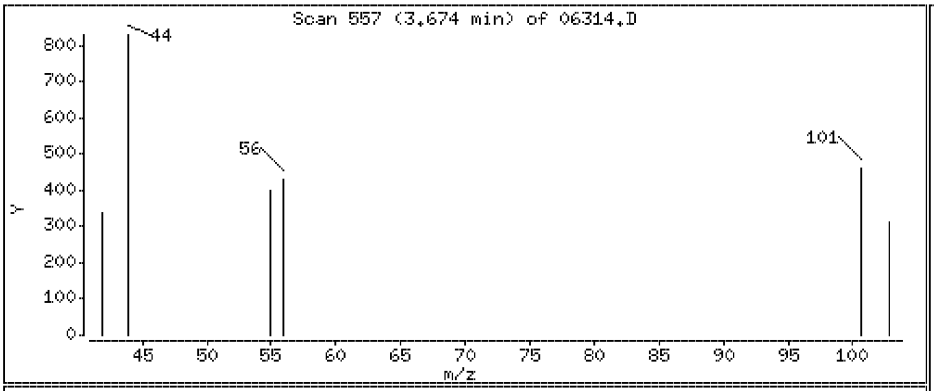
Operator: MJL

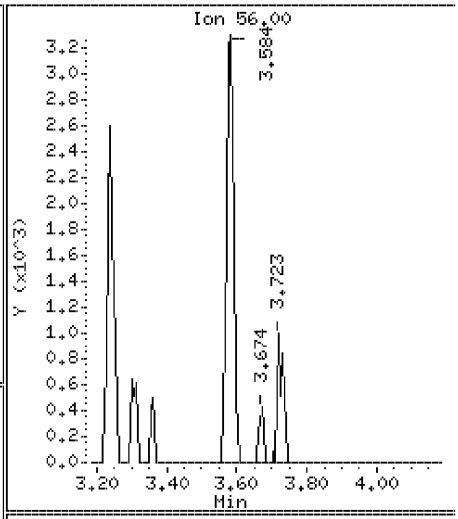
Column phase: J&W DB-5

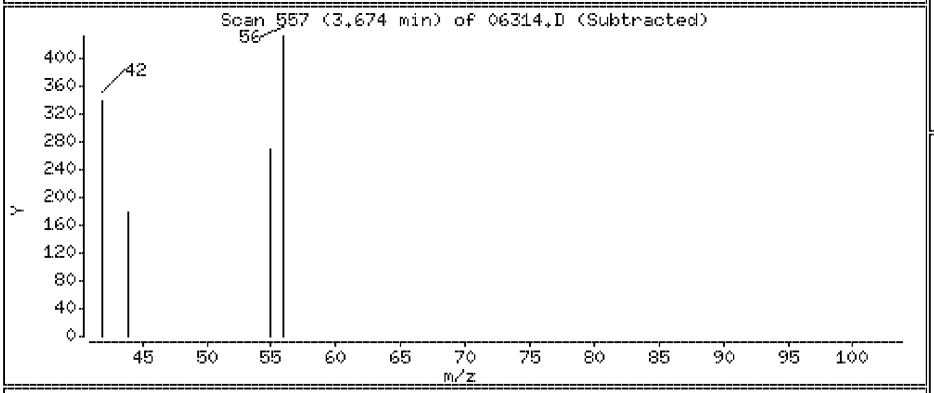
Column diameter: 0.32

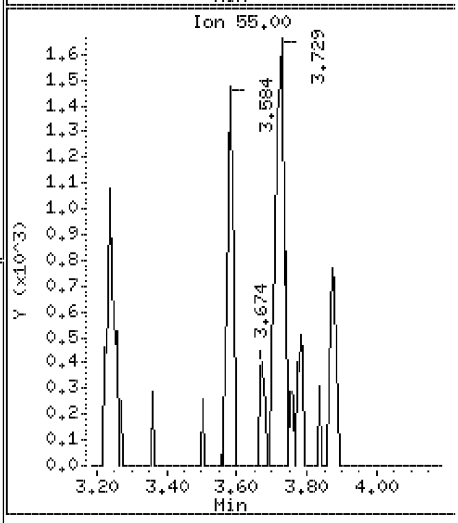
17 Acrolein

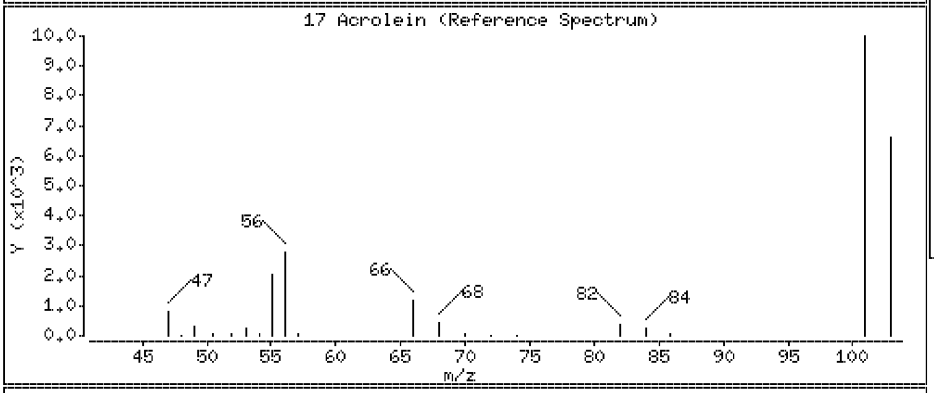
Concentration: 0.481 ppbv

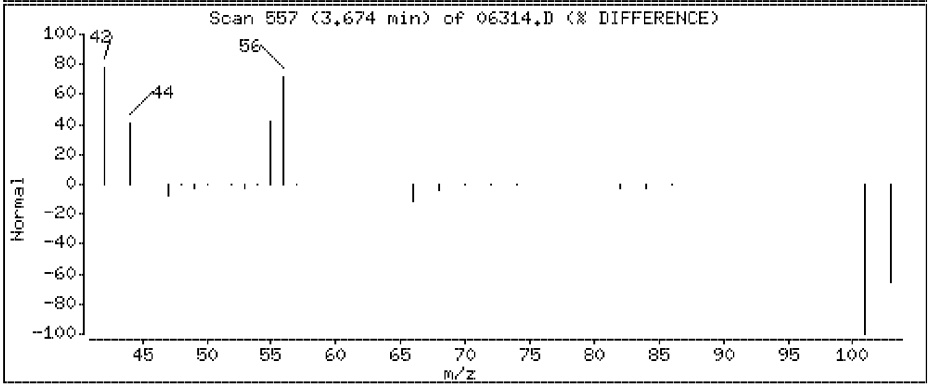












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

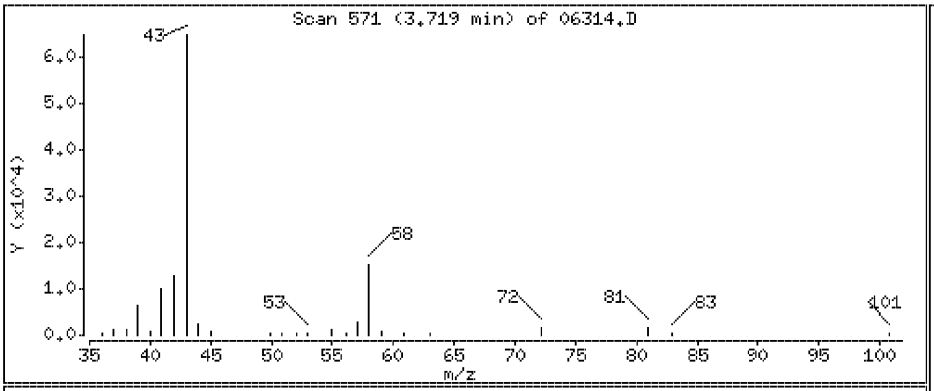
Operator: MJL

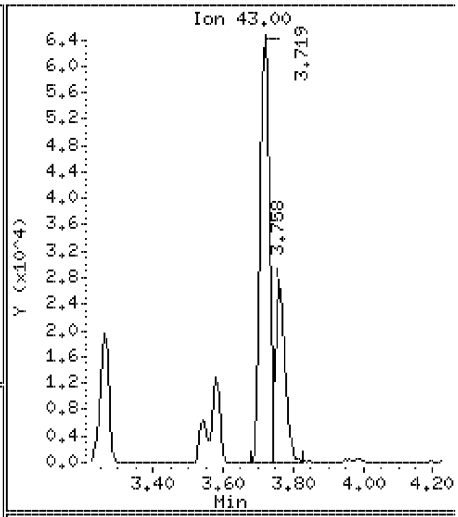
Column phase: J&W DB-5

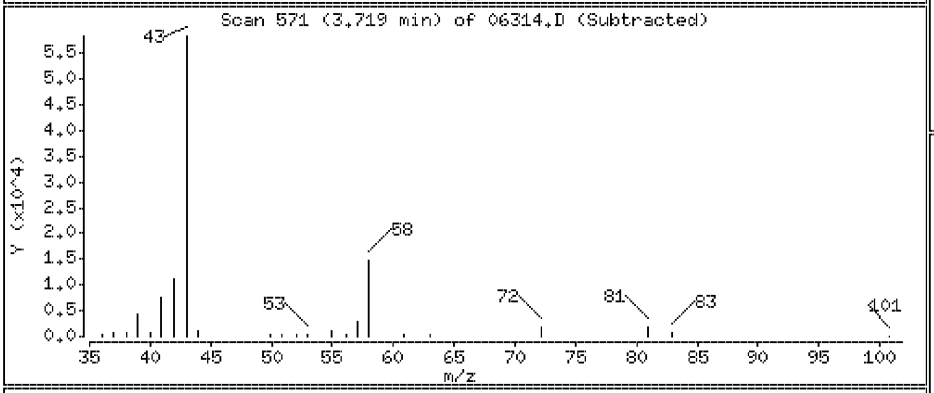
Column diameter: 0.32

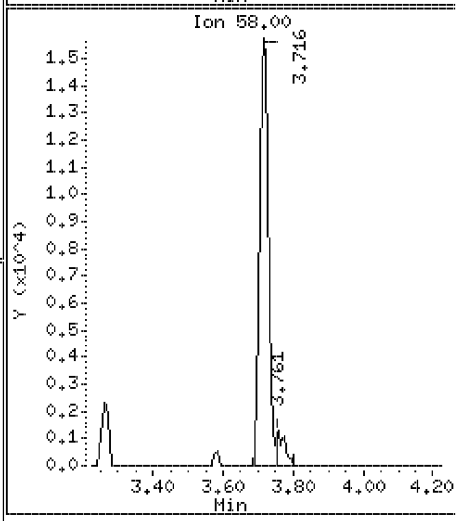
18 Acetone

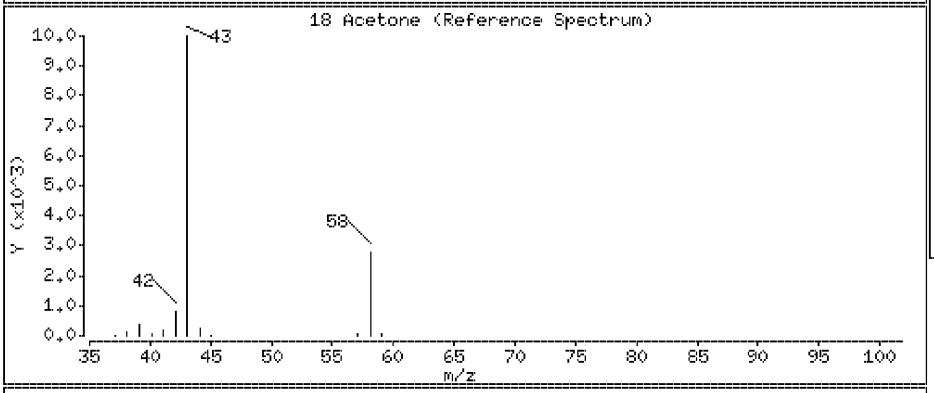
Concentration: 11.7 ppbv

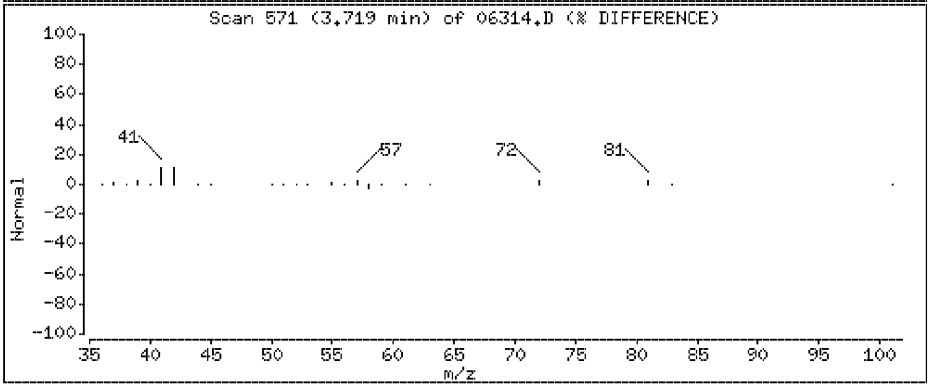












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

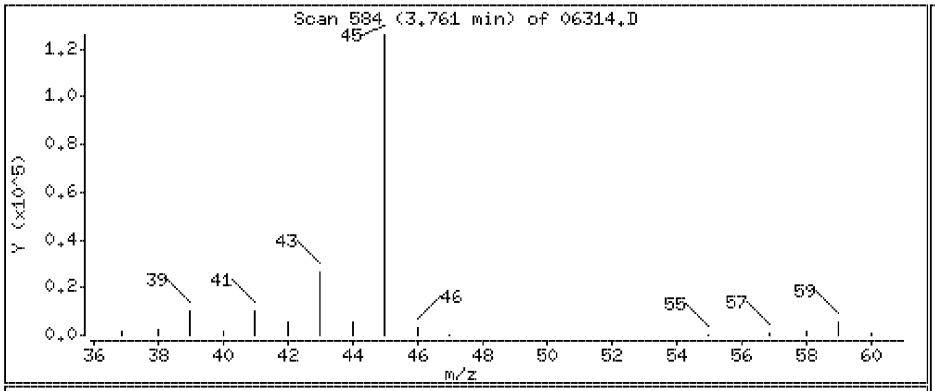
Operator: MJL

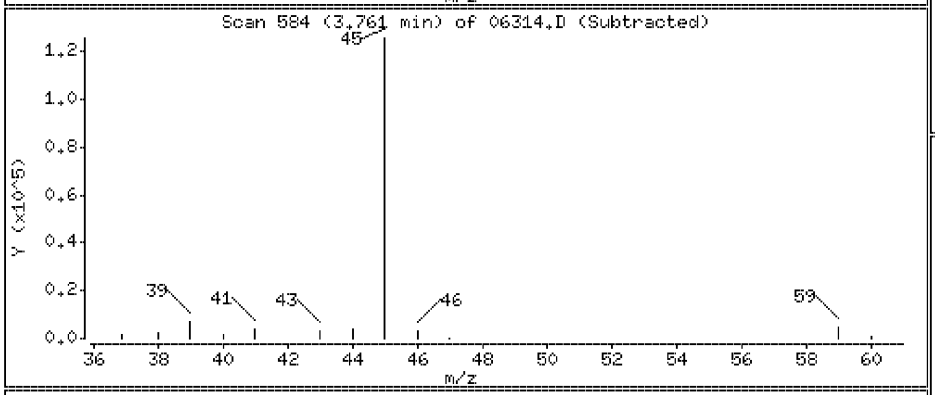
Column phase: J&W DB-5

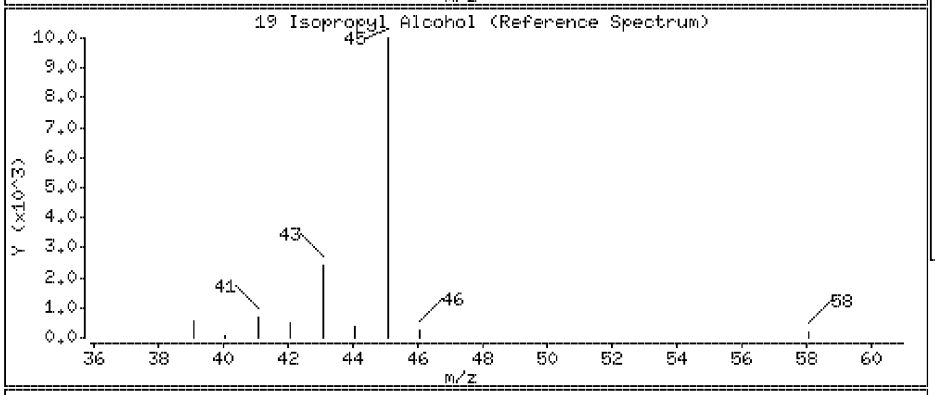
Column diameter: 0.32

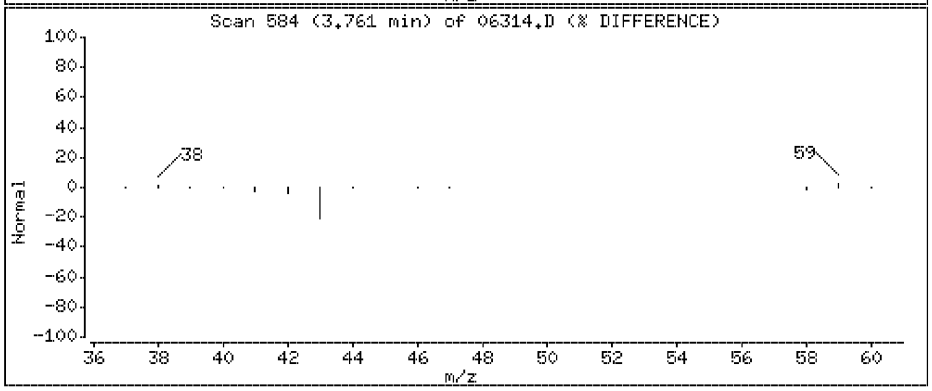
19 Isopropyl Alcohol

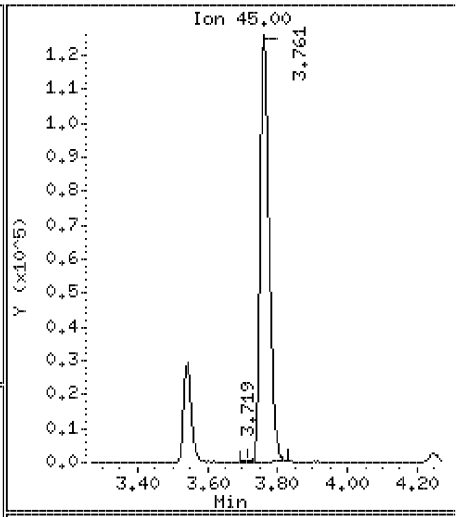
Concentration: 20.7 ppbv

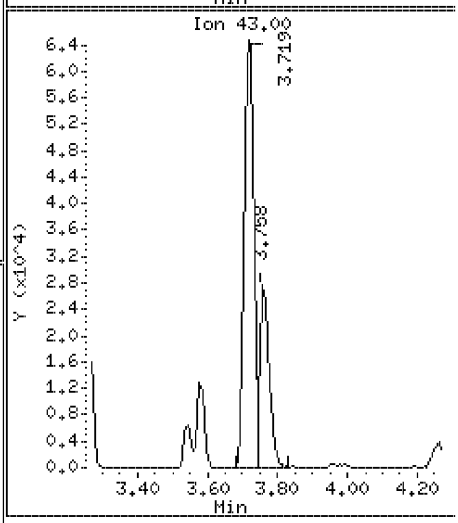












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

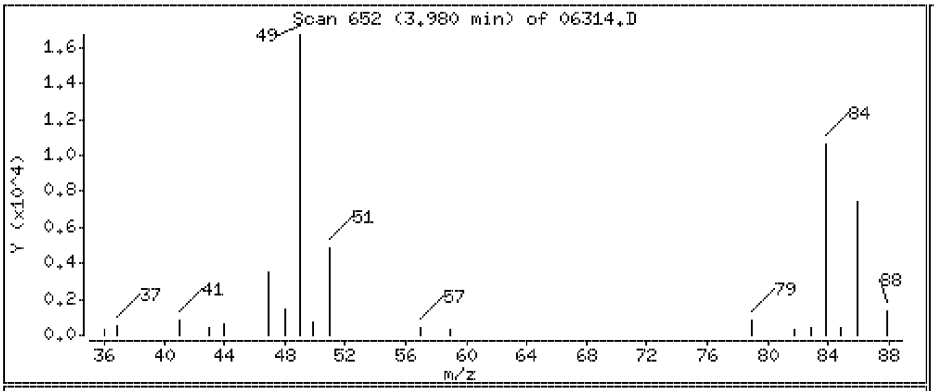
Operator: MJL

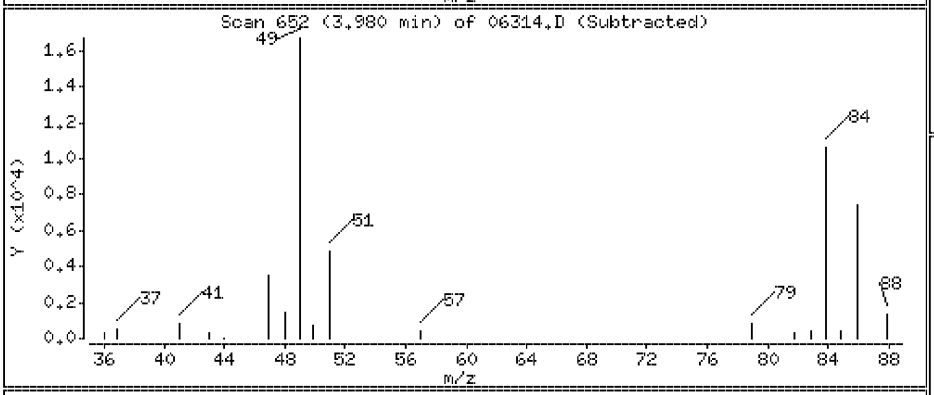
Column phase: J&W DB-5

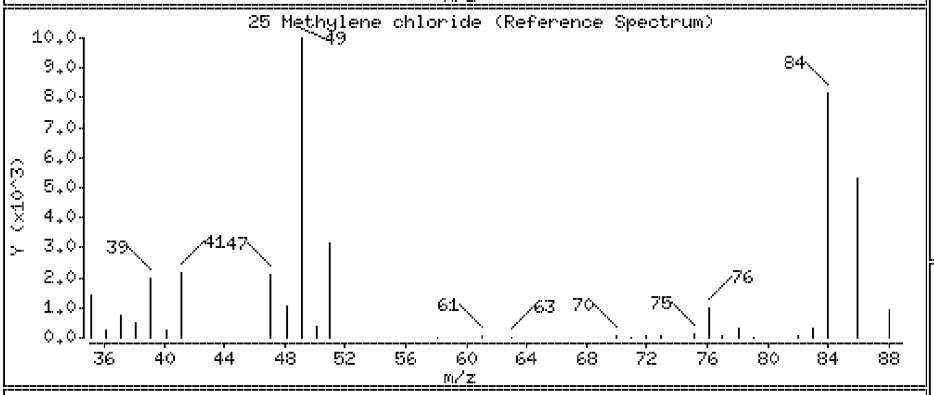
Column diameter: 0.32

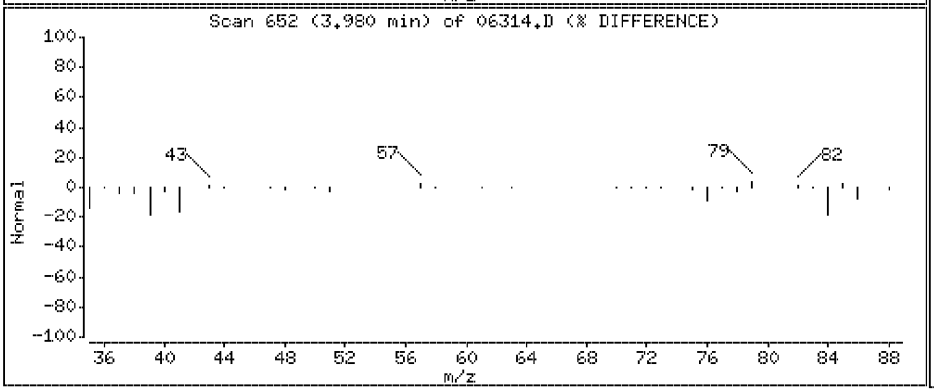
25 Methylene chloride

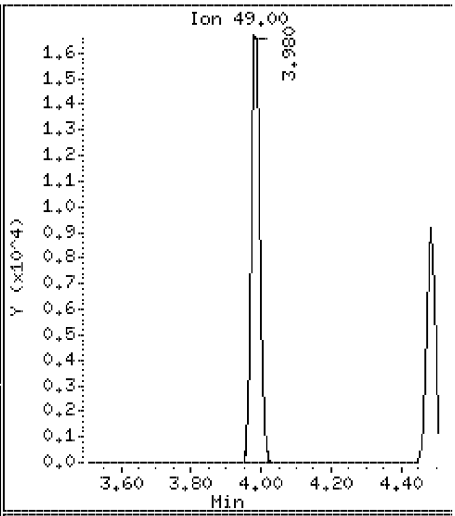
Concentration: 3.81 ppbv

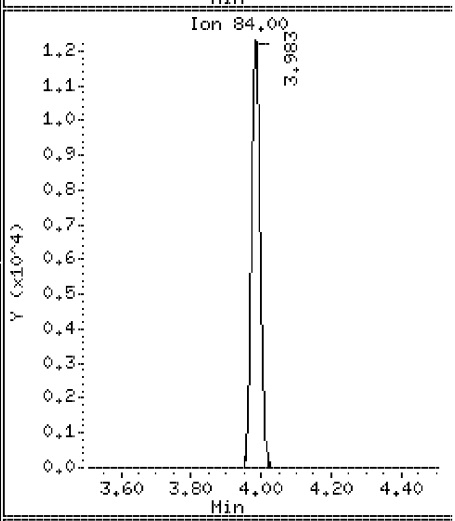


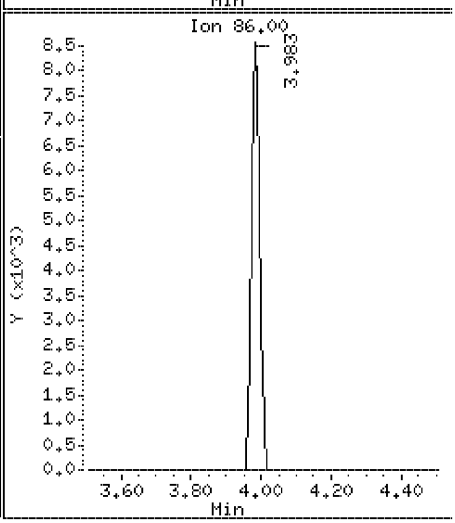












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

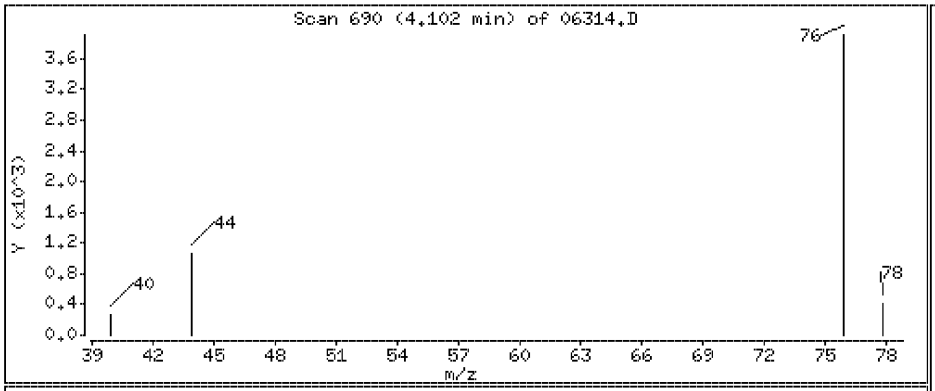
Operator: MJL

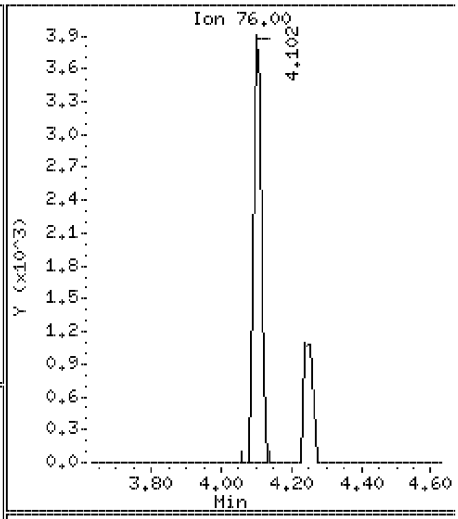
Column phase: J&W DB-5

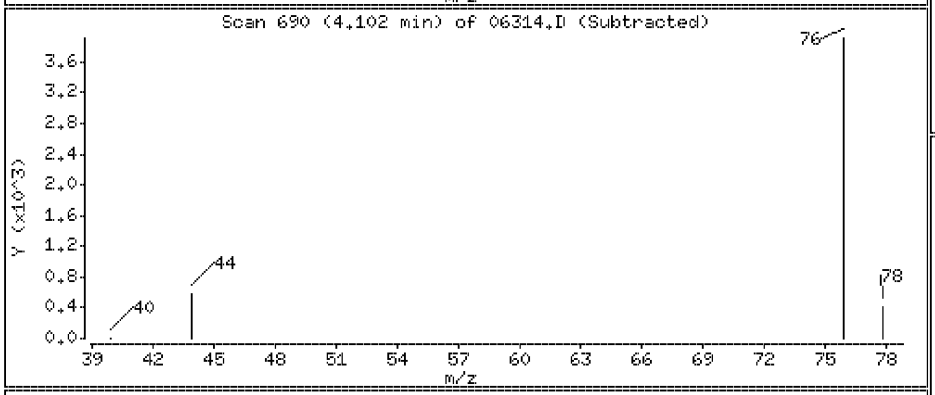
Column diameter: 0.32

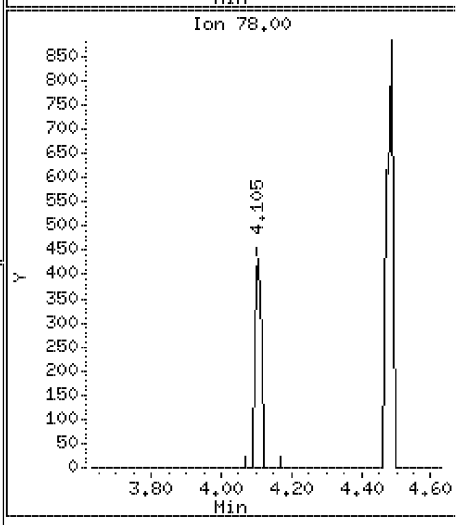
27 Carbon Disulfide

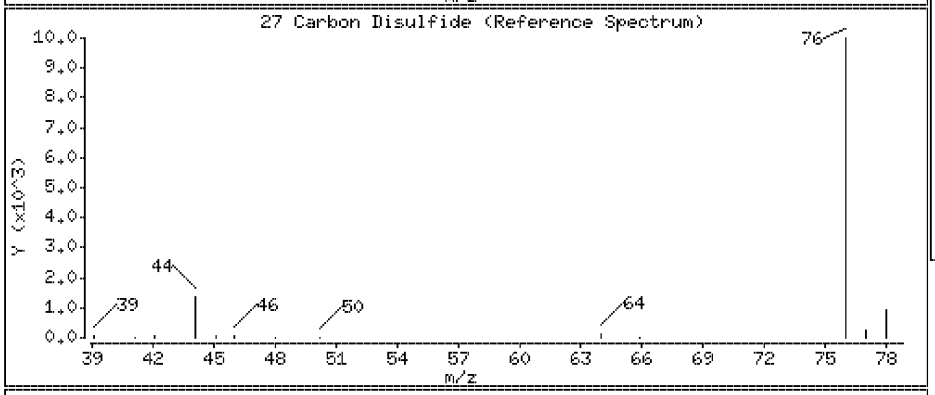
Concentration: 0.417 ppbv

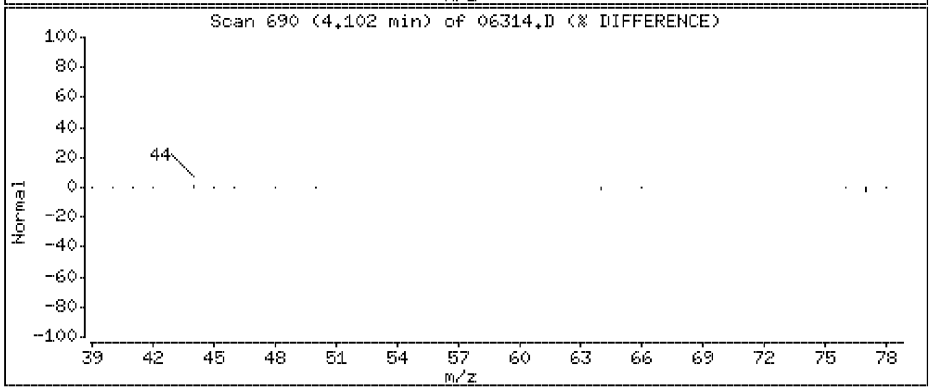












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

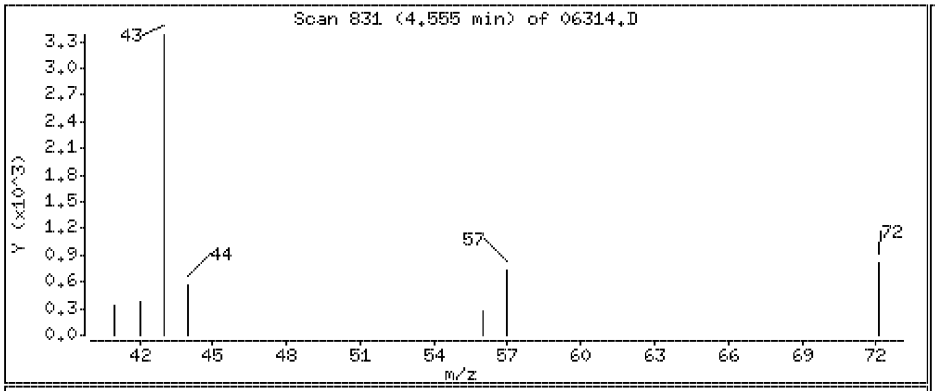
Operator: MJL

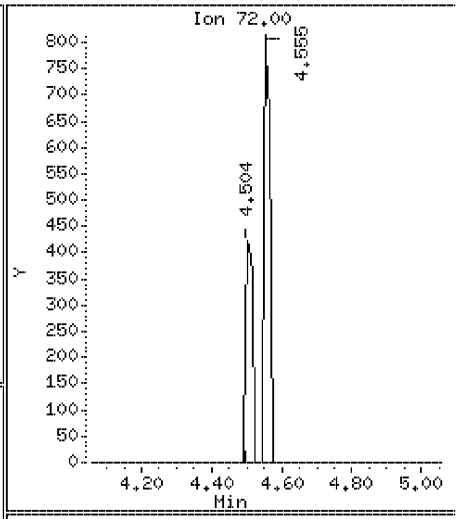
Column phase: J&W DB-5

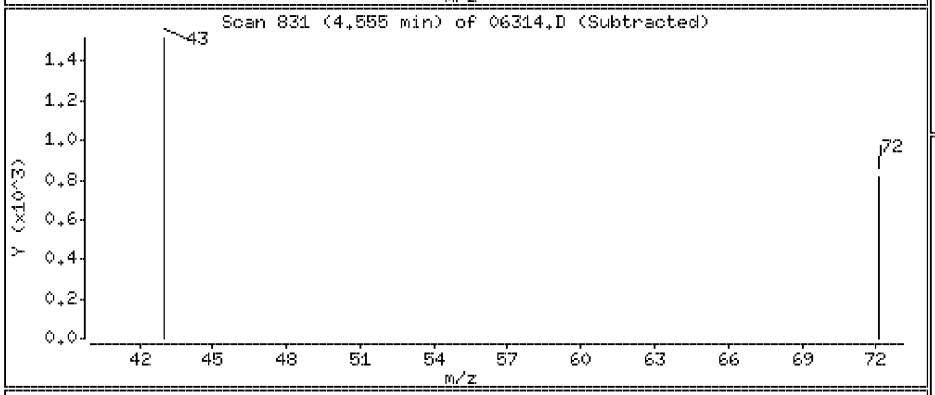
Column diameter: 0.32

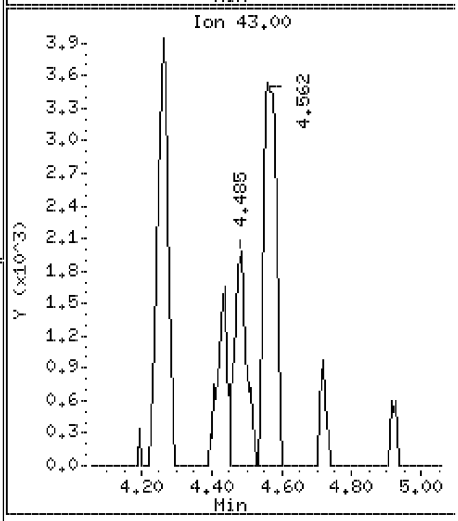
33 Methyl Ethyl Ketone

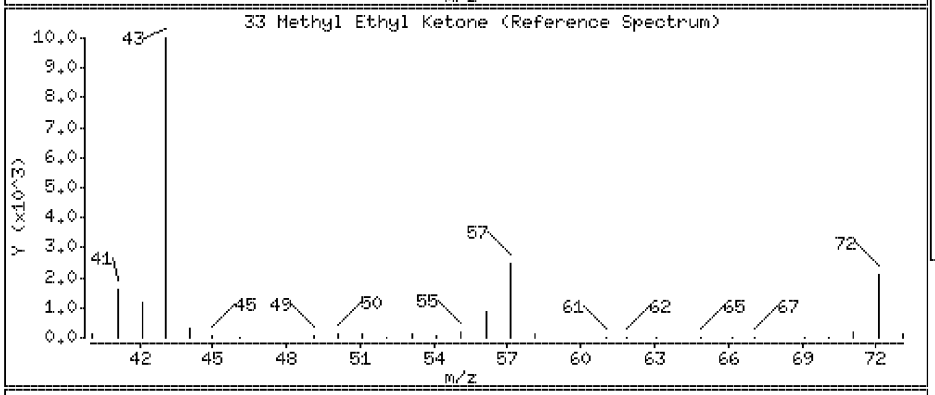
Concentration: 0.424 ppbv

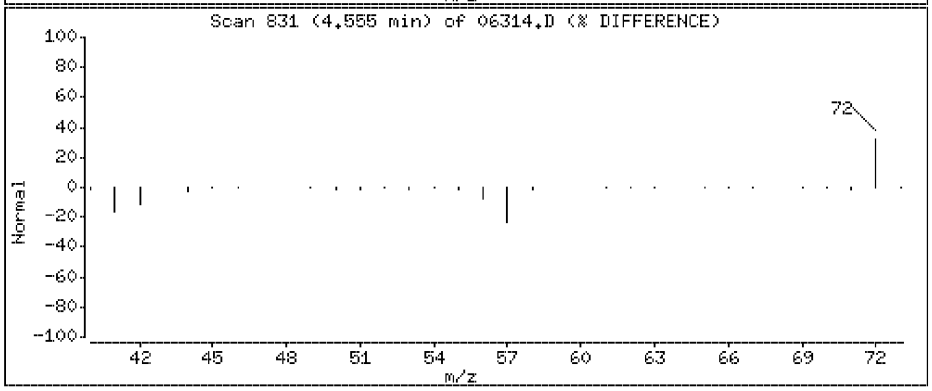












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

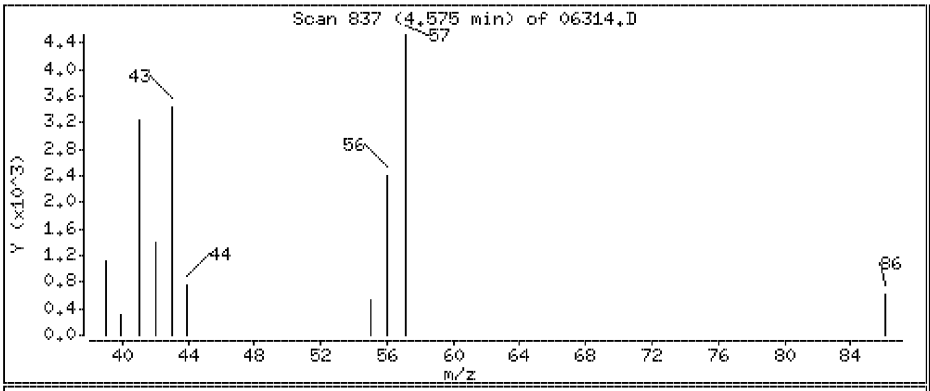
Operator: MJL

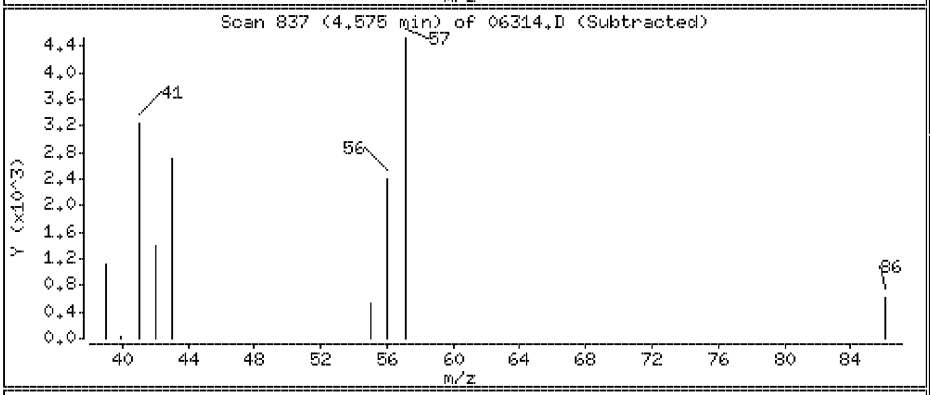
Column phase: J&W DB-5

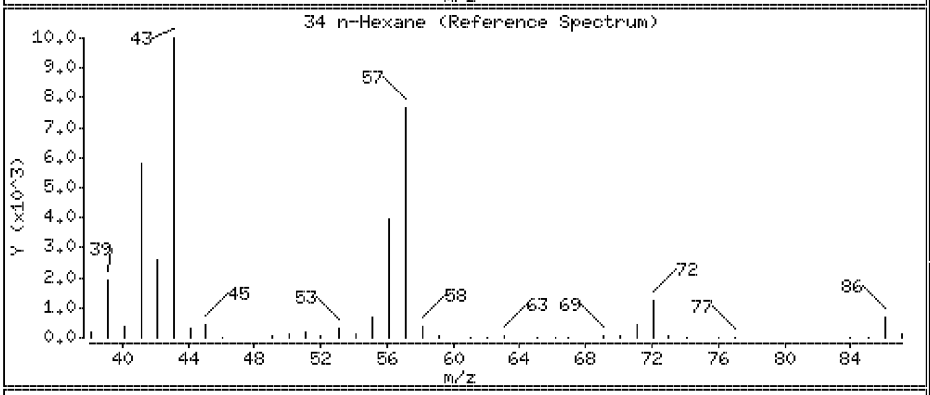
Column diameter: 0.32

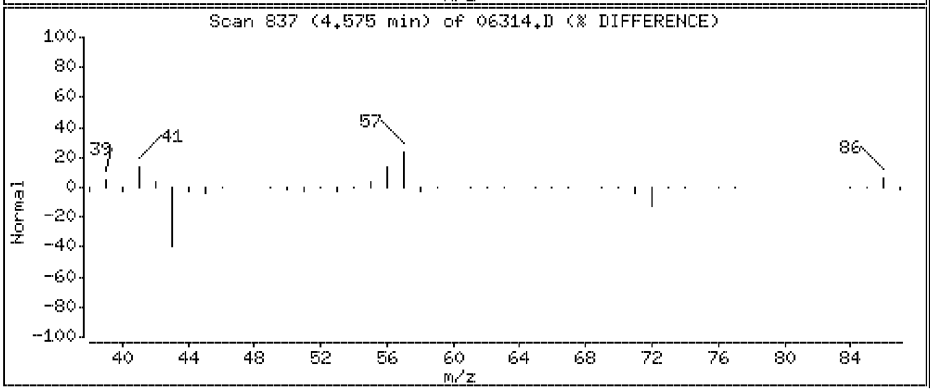
34 n-Hexane

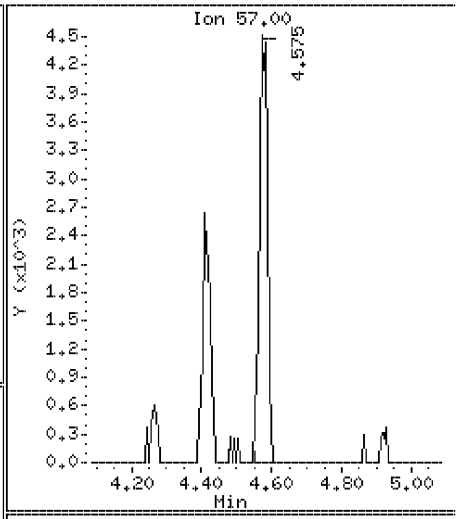
Concentration: 0.695 ppbv

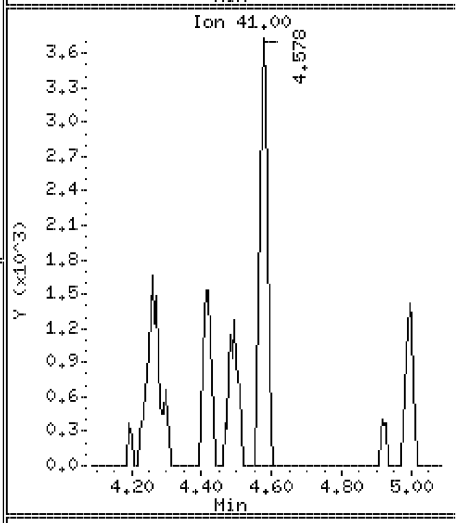


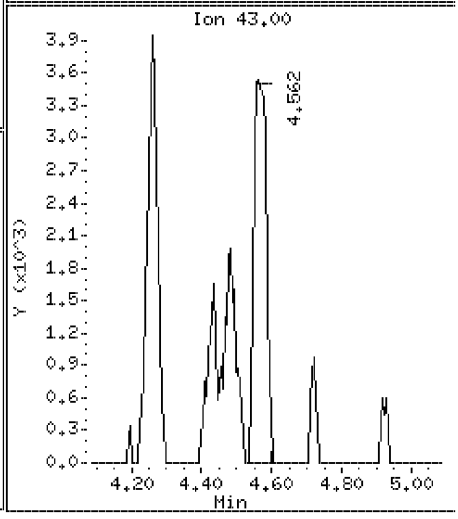












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

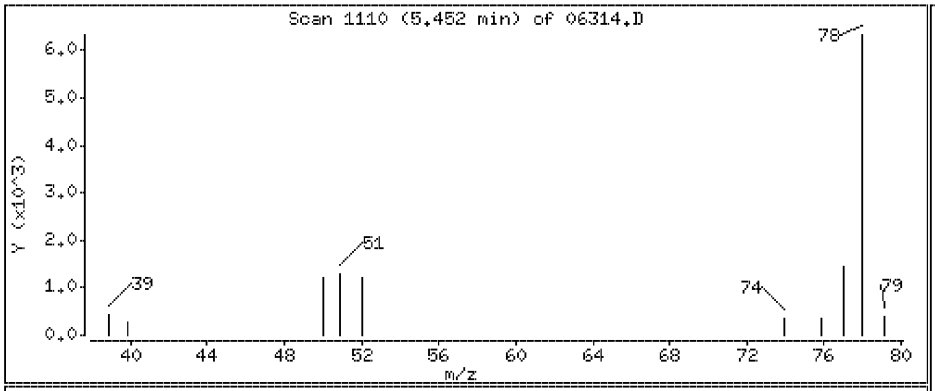
Operator: MJL

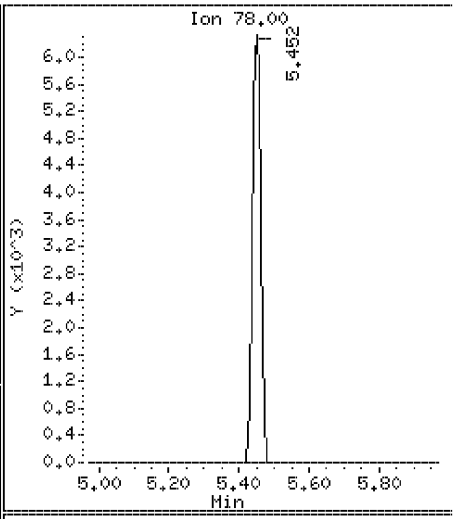
Column phase: J&W DB-5

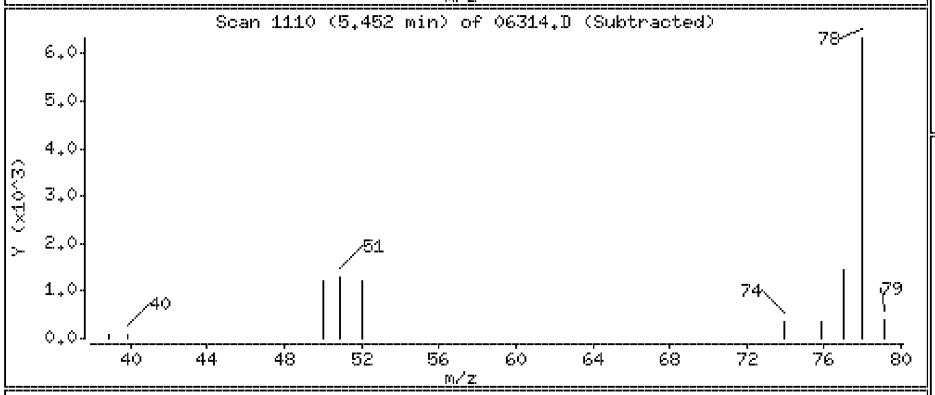
Column diameter: 0.32

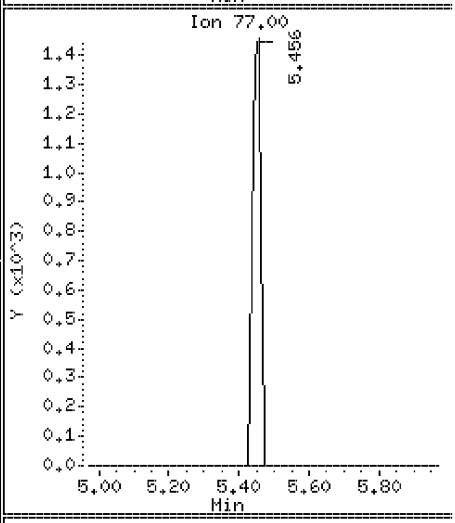
43 Benzene

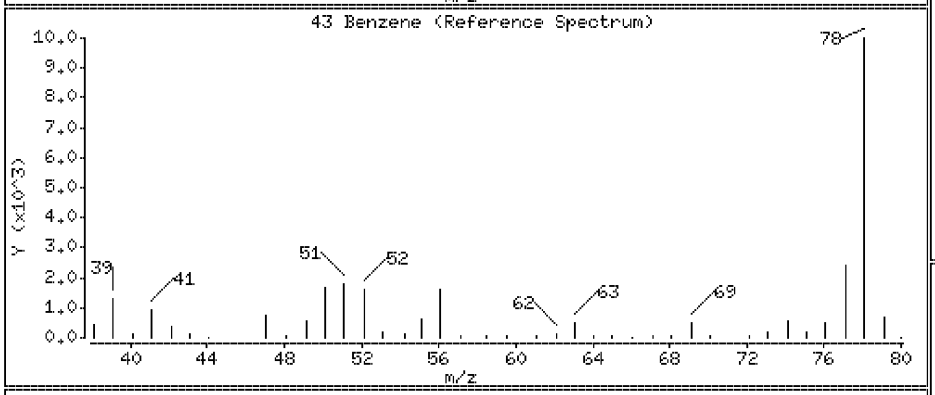
Concentration: 0.480 ppbv

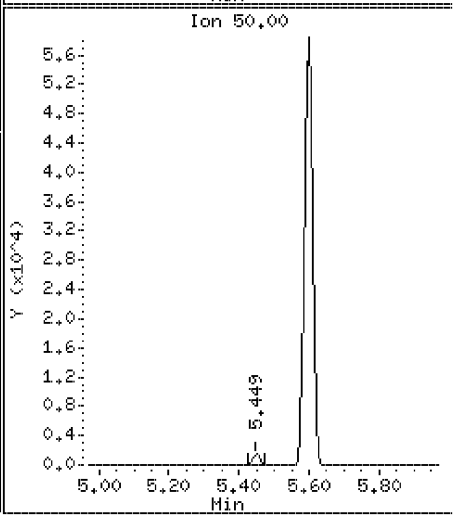


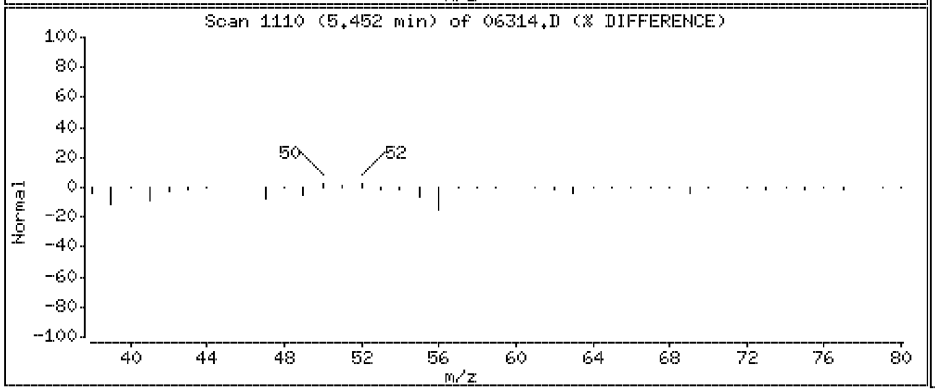












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

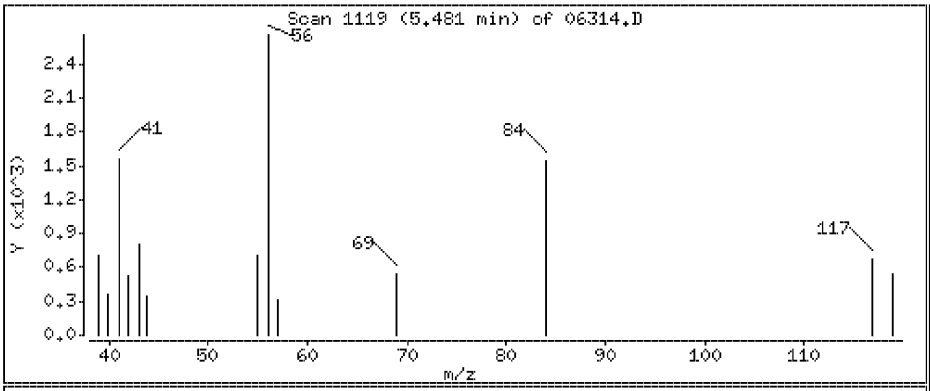
Operator: MJL

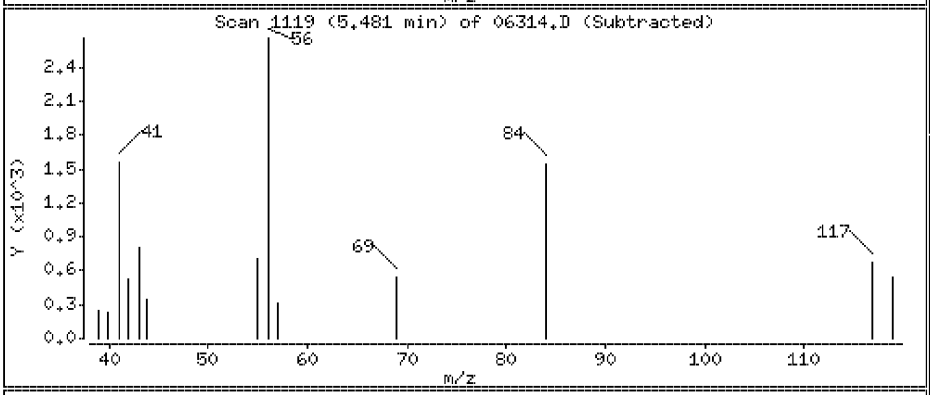
Column phase: J&W DB-5

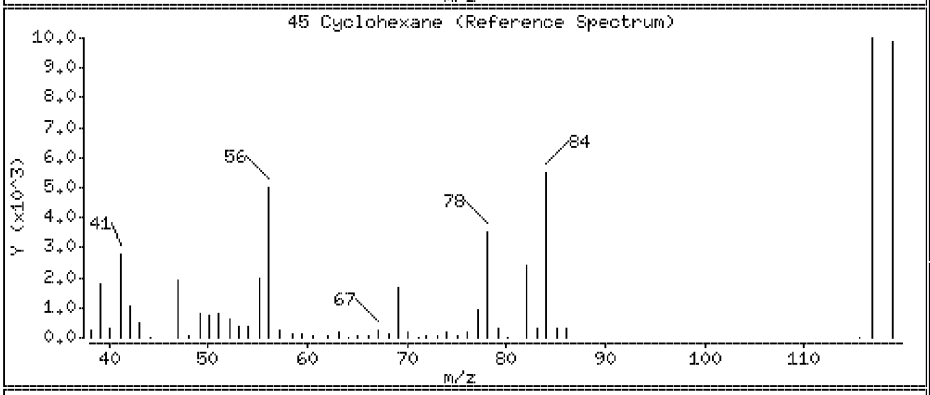
Column diameter: 0.32

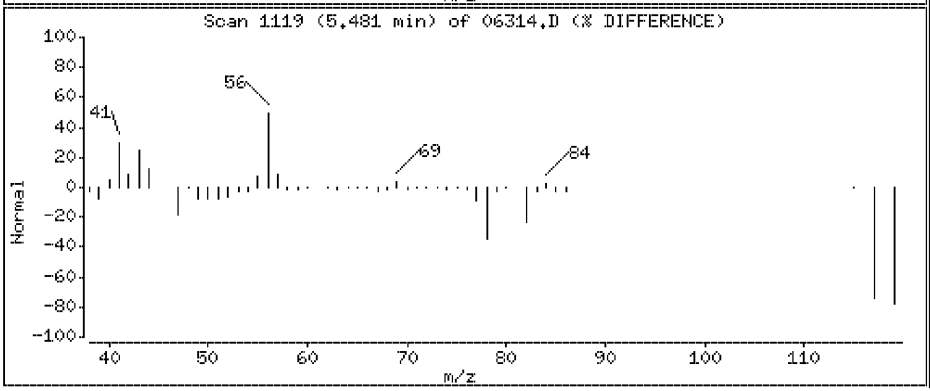
45 Cyclohexane

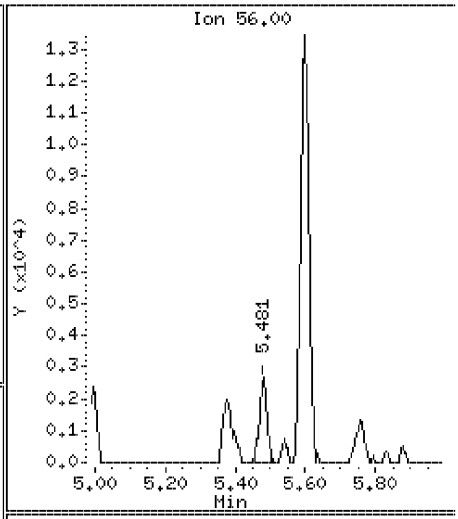
Concentration: 0.364 ppbv

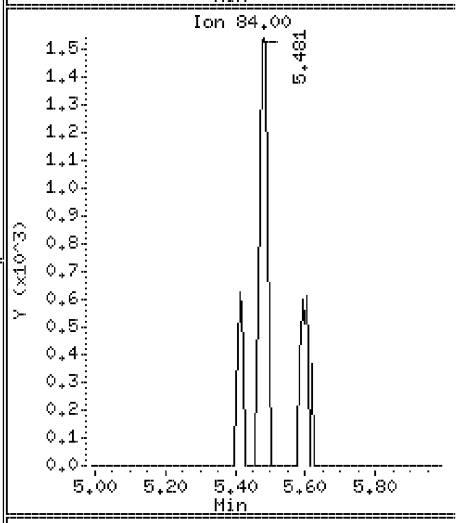


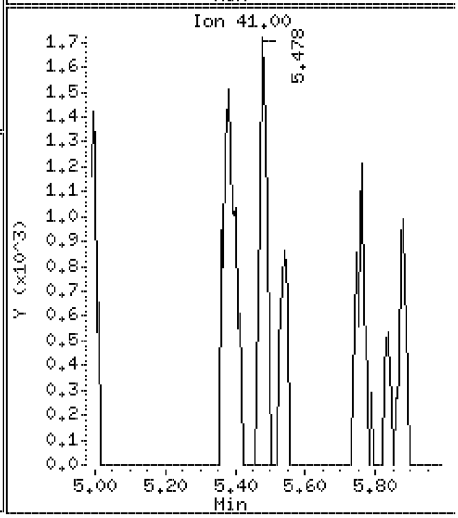












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

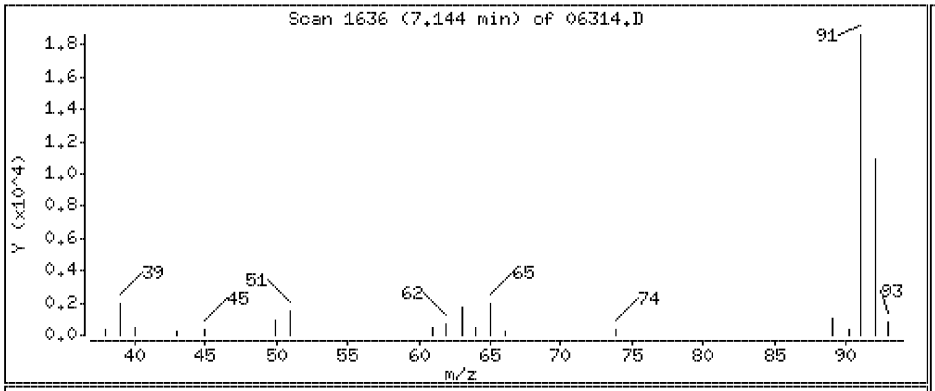
Operator: MJL

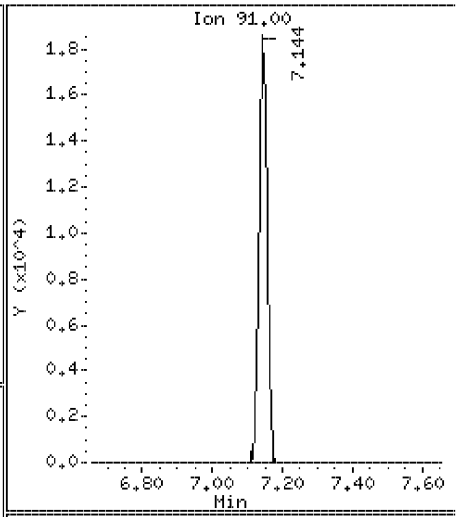
Column phase: J&W DB-5

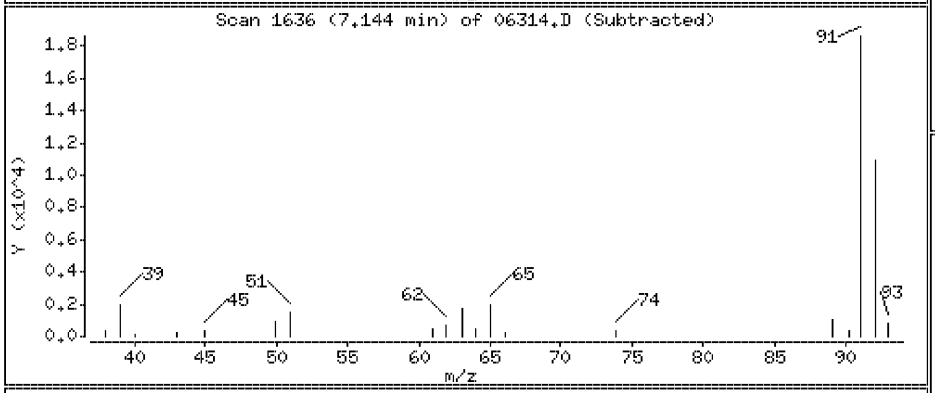
Column diameter: 0.32

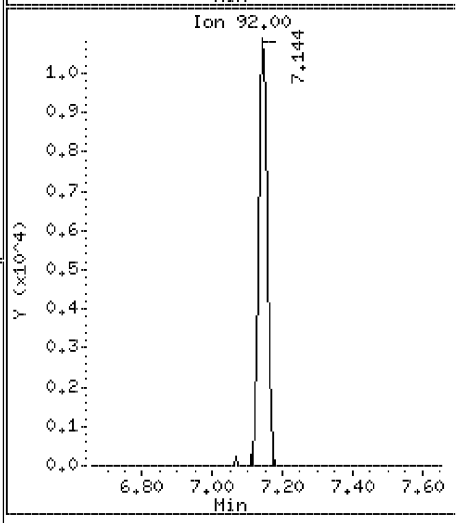
61 Toluene

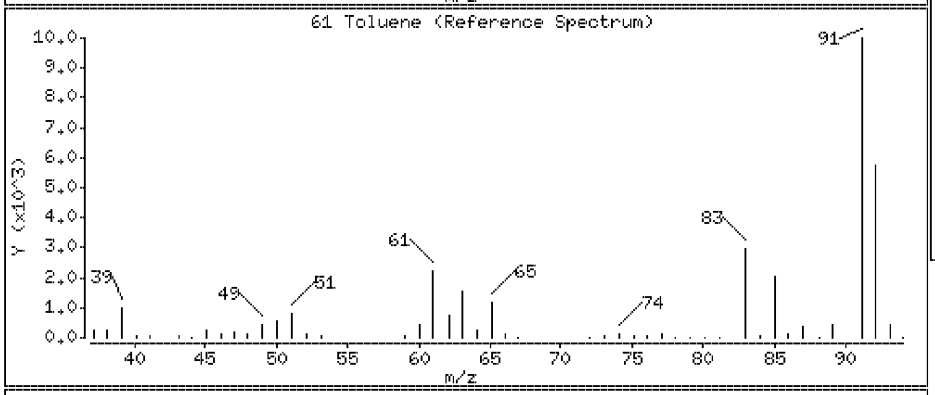
Concentration: 1.11 ppbv

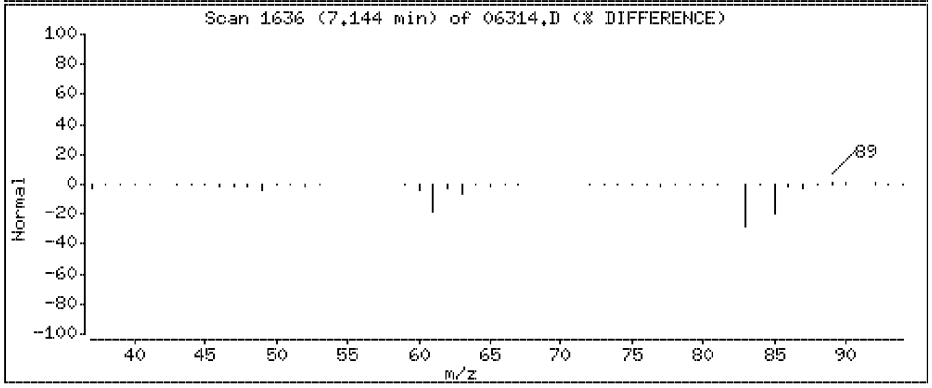












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

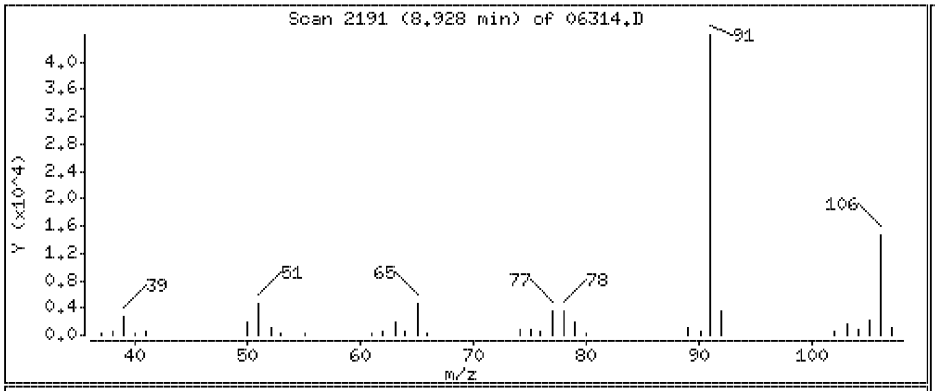
Operator: MJL

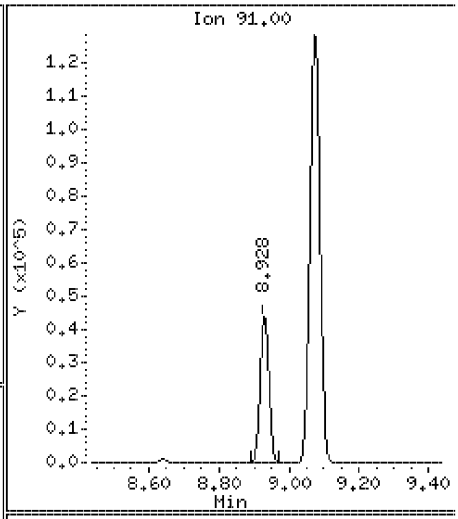
Column phase: J&W DB-5

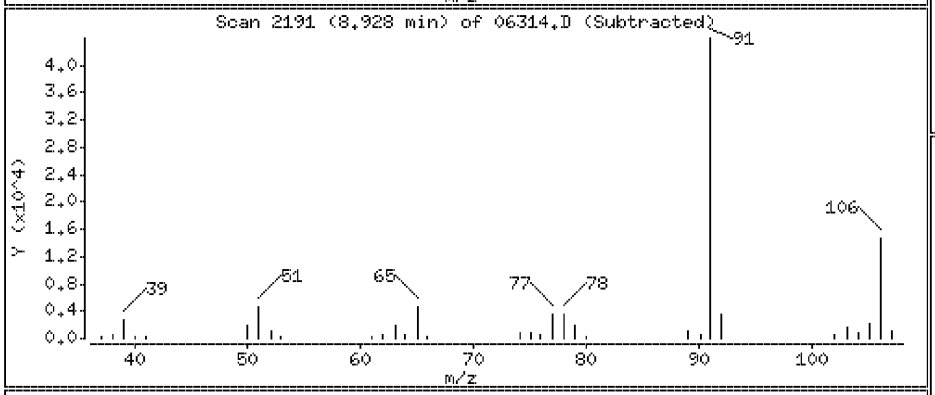
Column diameter: 0.32

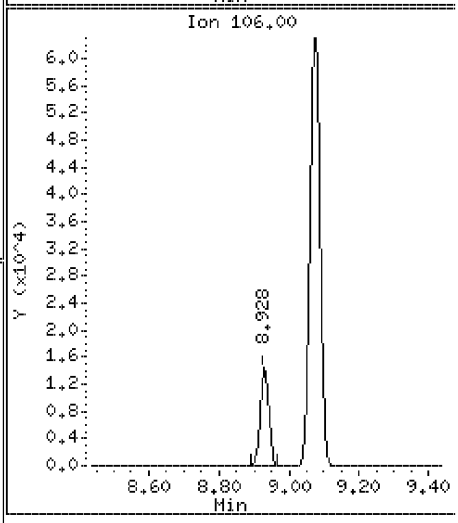
69 Ethyl Benzene

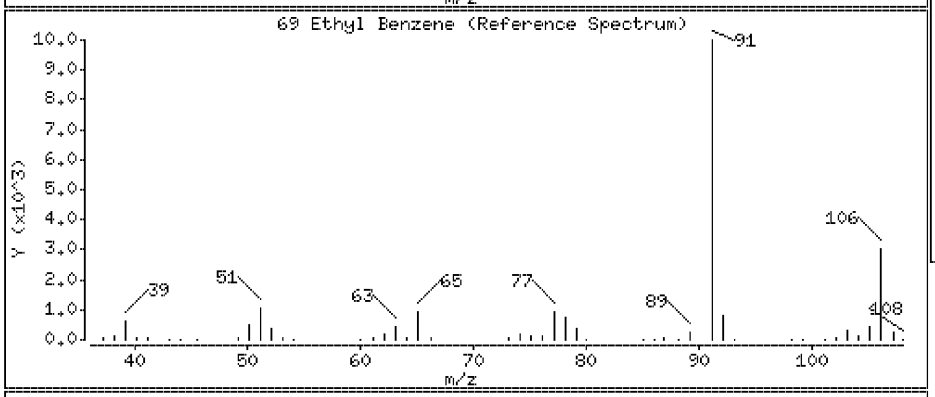
Concentration: 2.28 ppbv

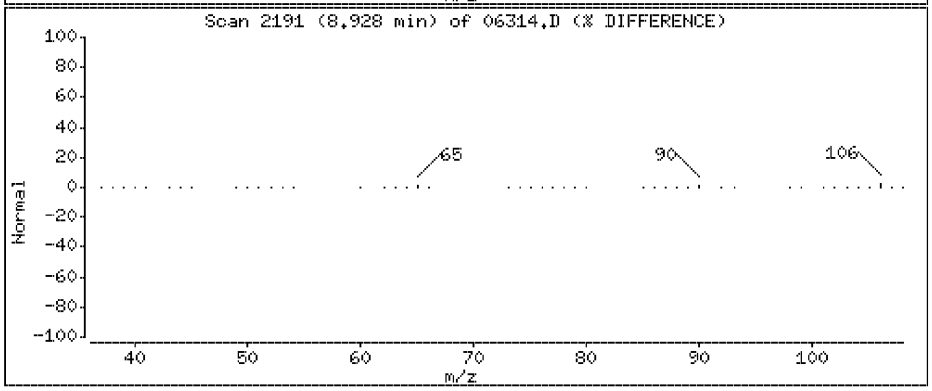












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

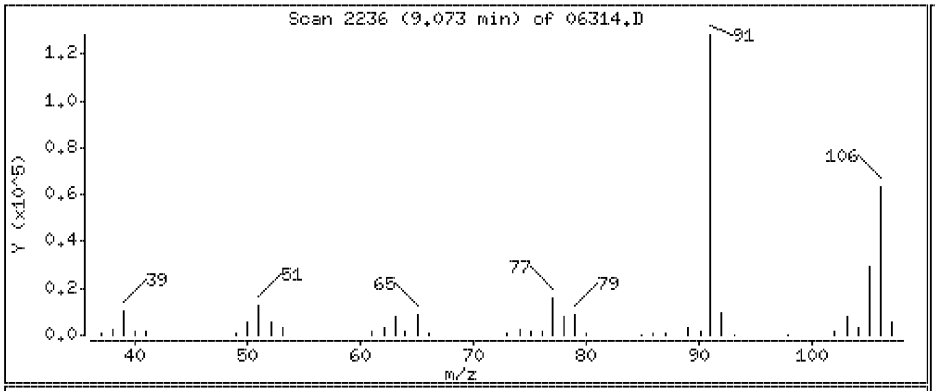
Operator: MJL

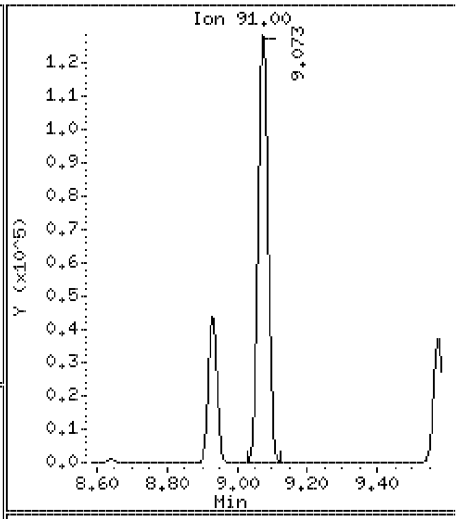
Column phase: J&W DB-5

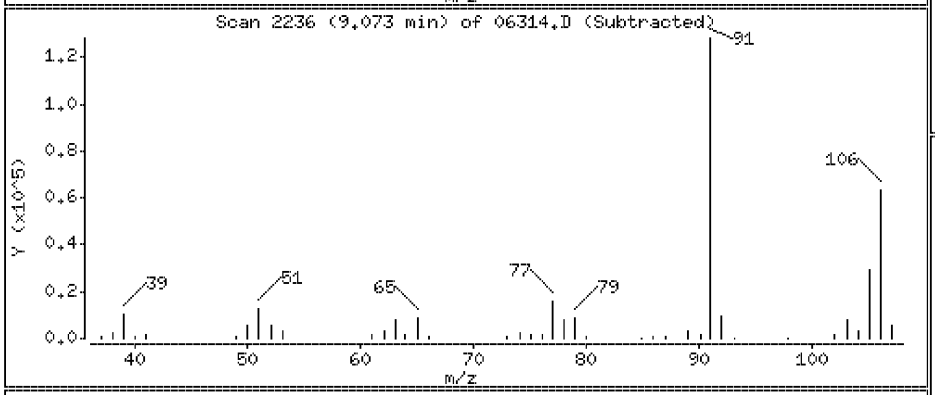
Column diameter: 0.32

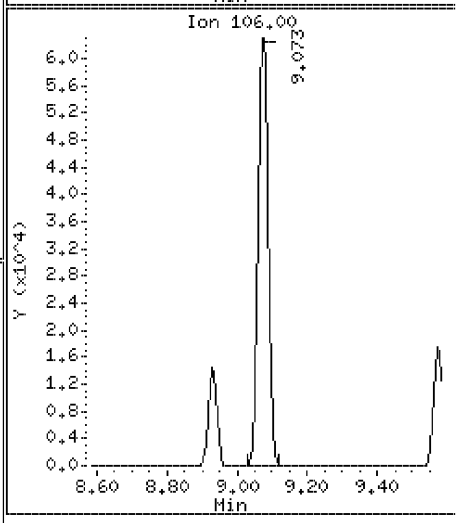
70 m&p-Xylene

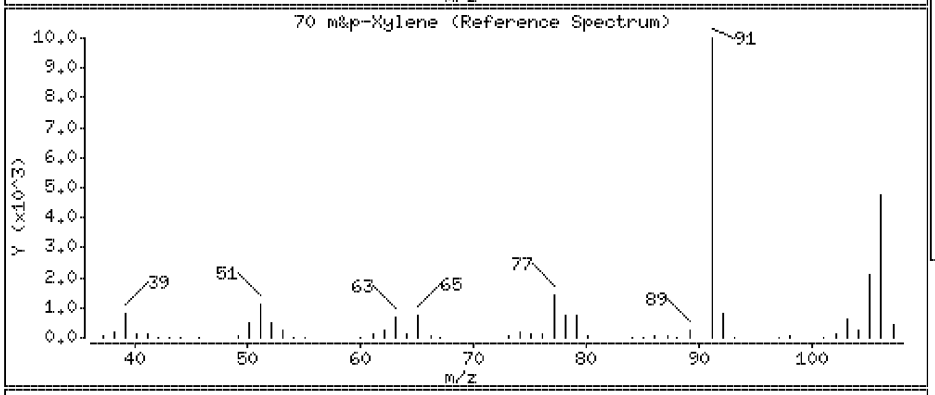
Concentration: 9.81 ppbv

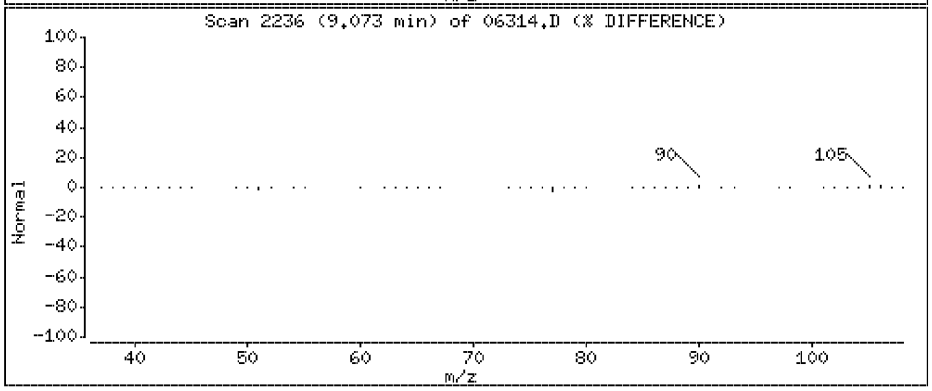












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

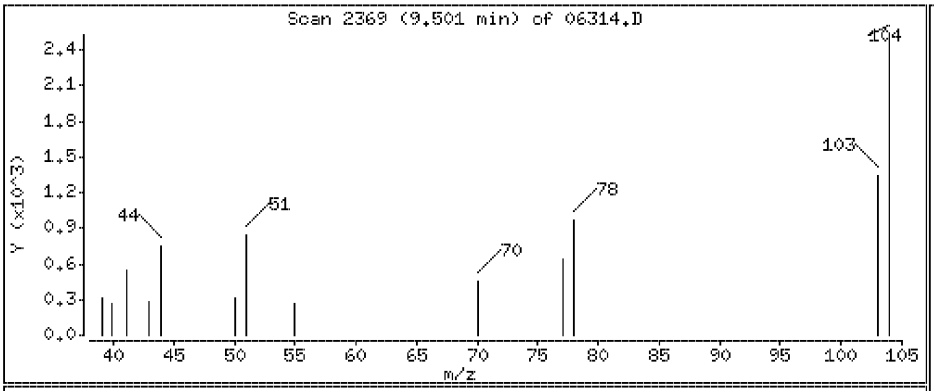
Operator: MJL

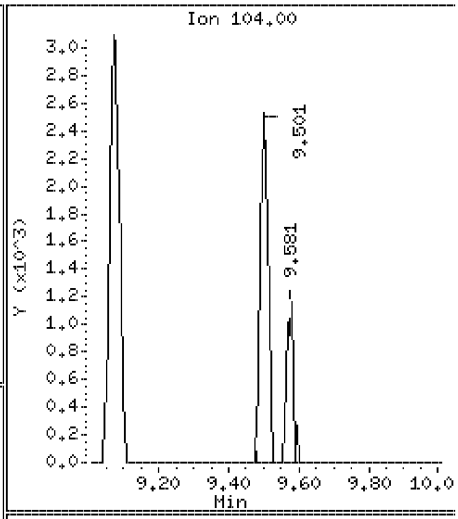
Column phase: J&W DB-5

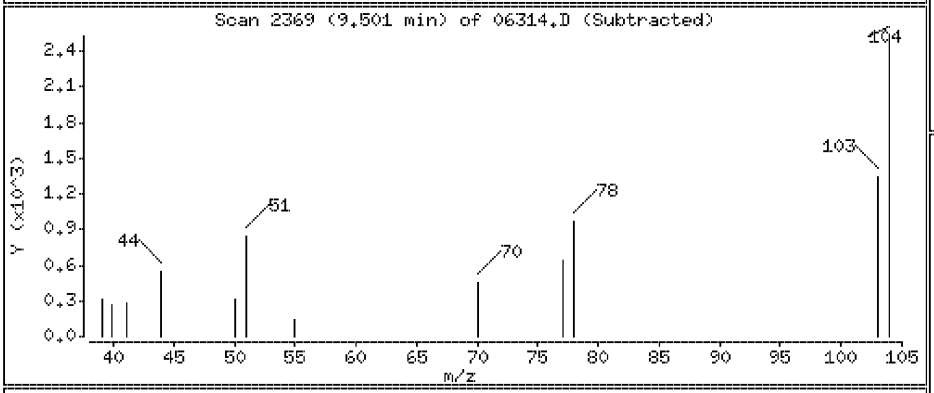
Column diameter: 0.32

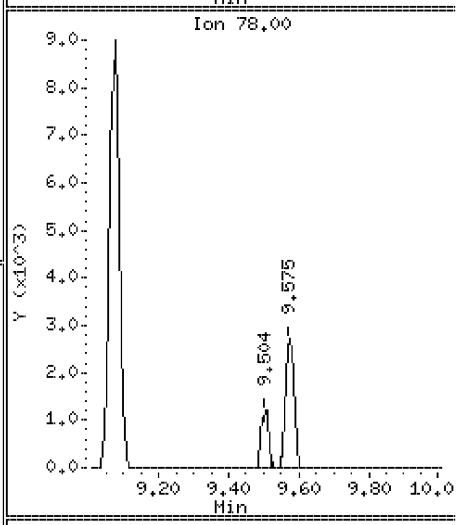
73 Styrene

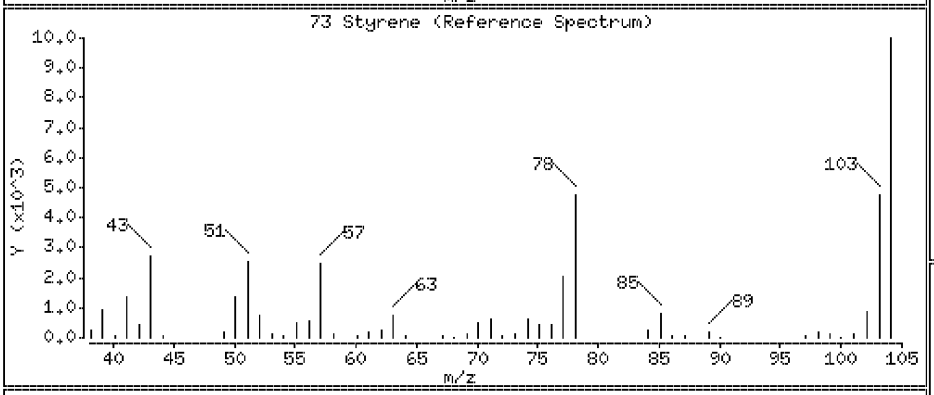
Concentration: 0.312 ppbv

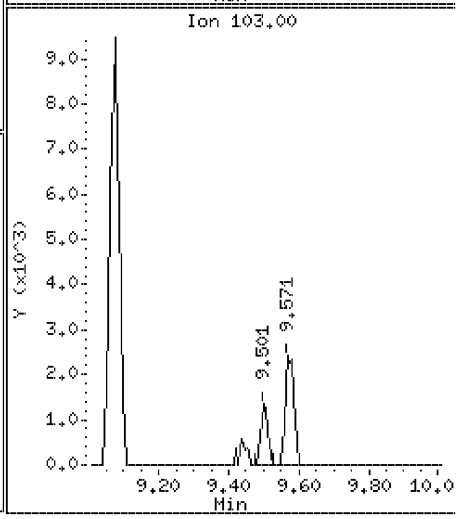


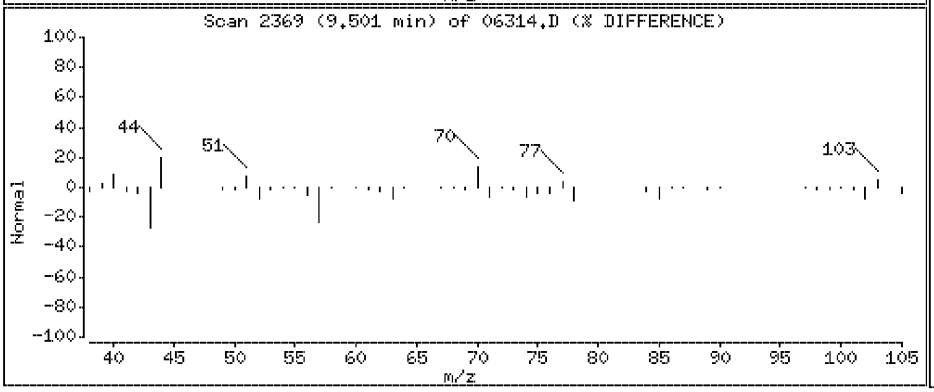












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

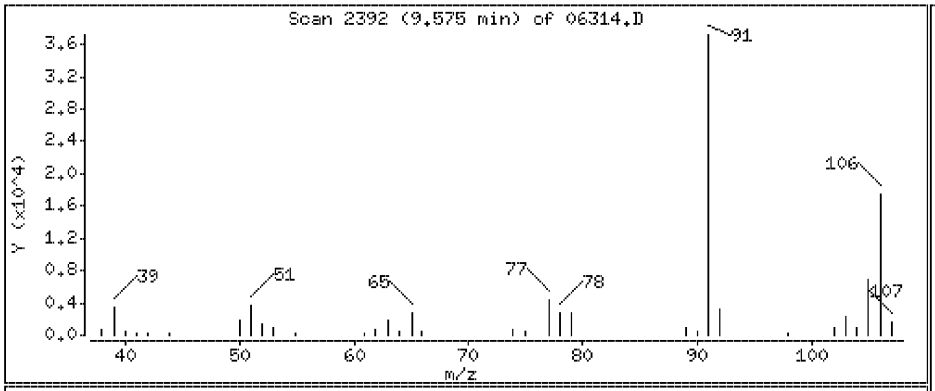
Operator: MJL

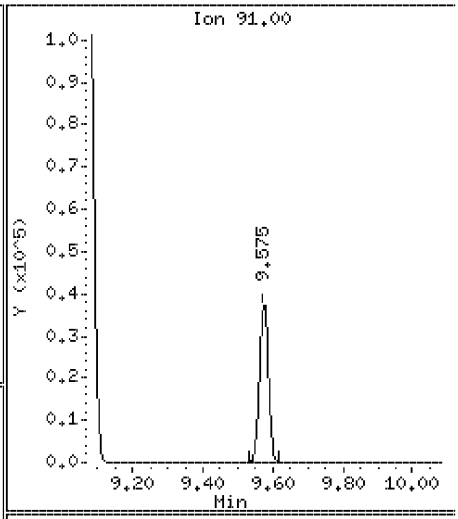
Column phase: J&W DB-5

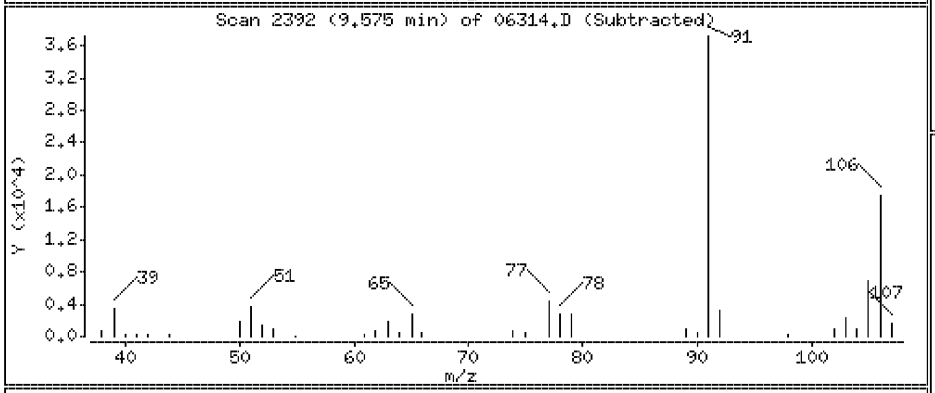
Column diameter: 0.32

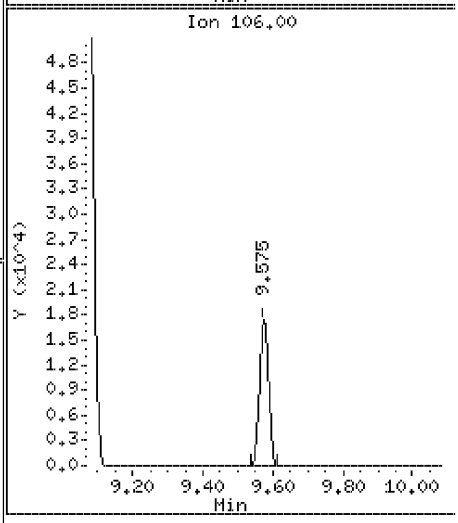
74 o-Xylene

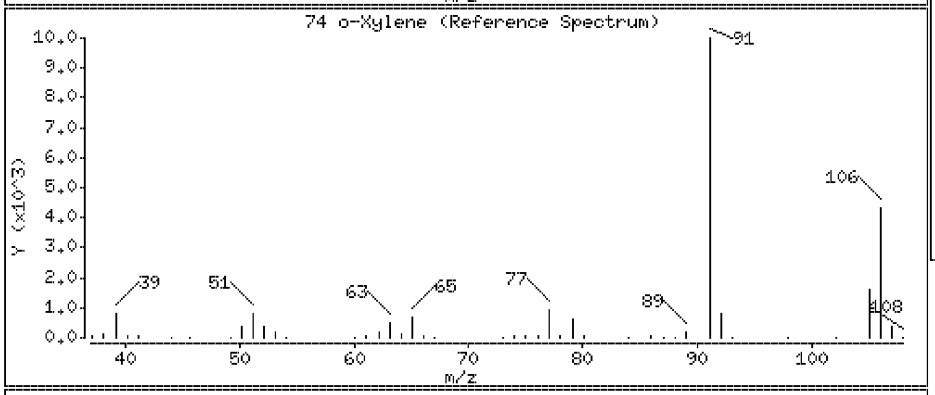
Concentration: 2.50 ppbv

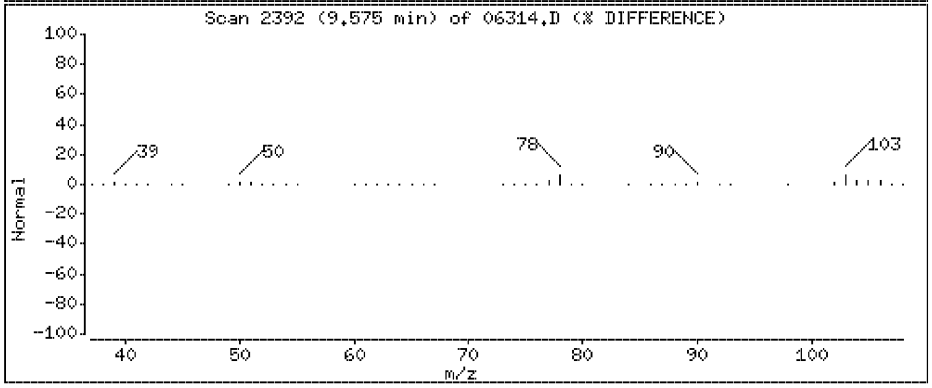












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

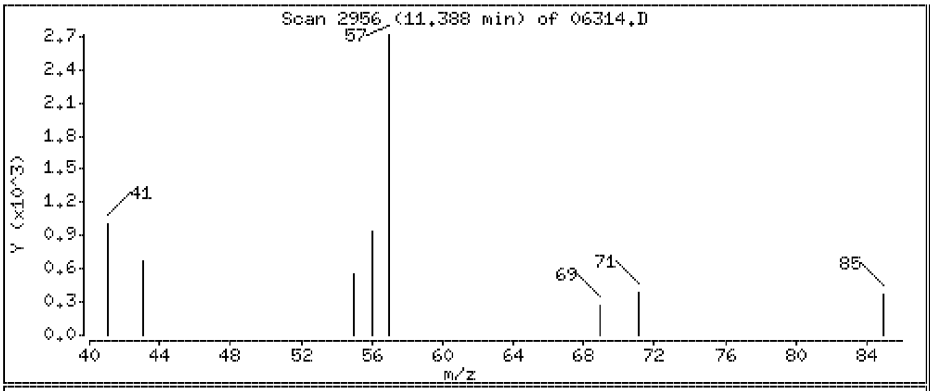
Operator: MJL

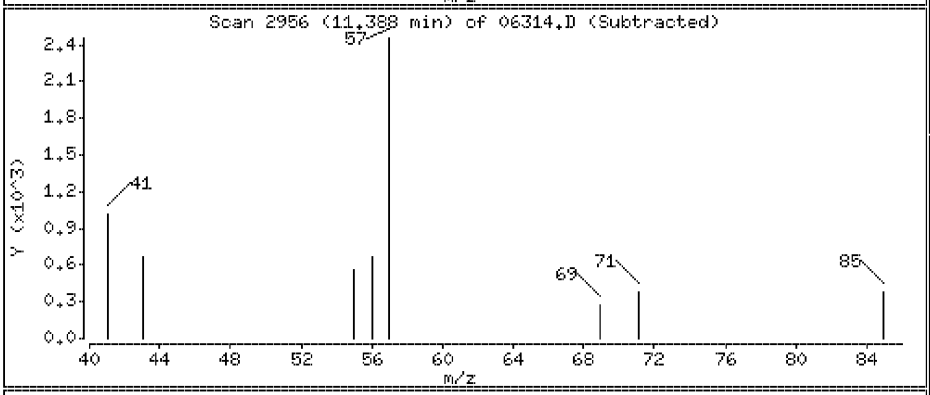
Column phase: J&W DB-5

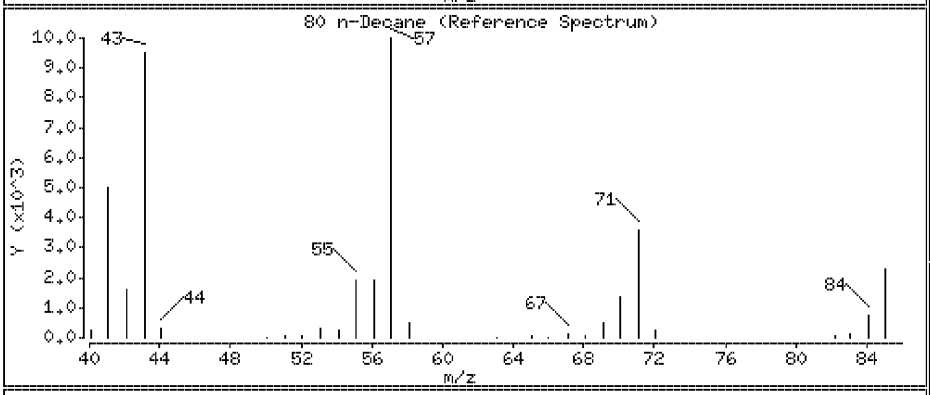
Column diameter: 0.32

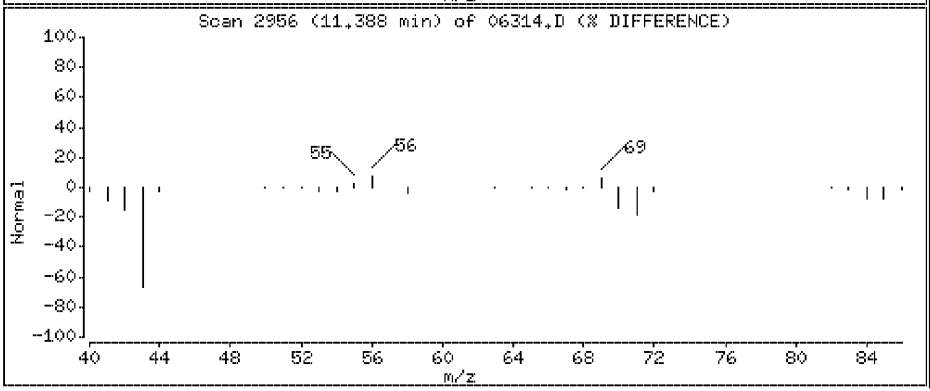
80 n-Decane

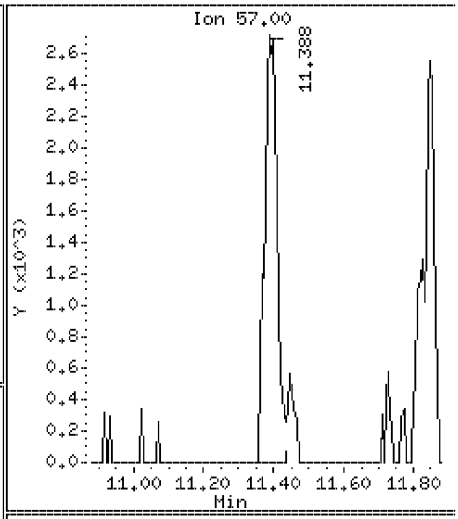
Concentration: 0.808 ppbv

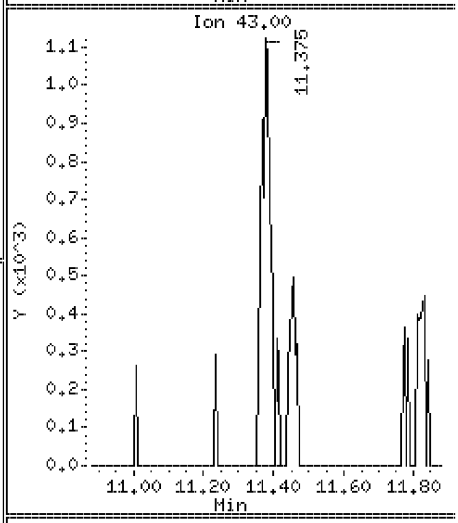


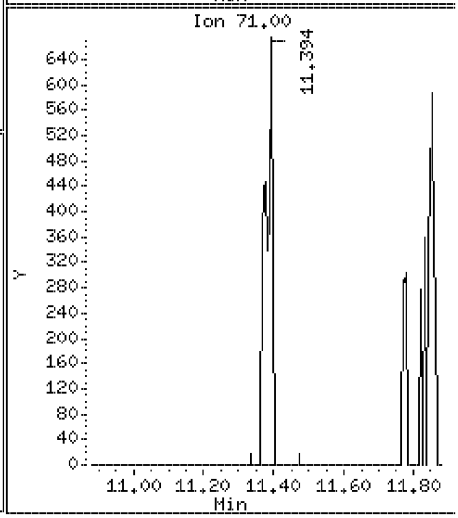












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06314.D

Date : 04-MAR-2017 13:23

Client ID:

Instrument: 10airB.i

Sample Info:

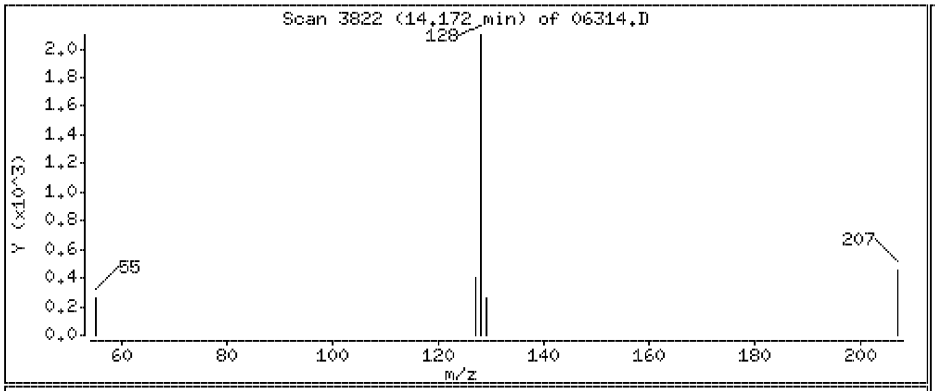
Operator: MJL

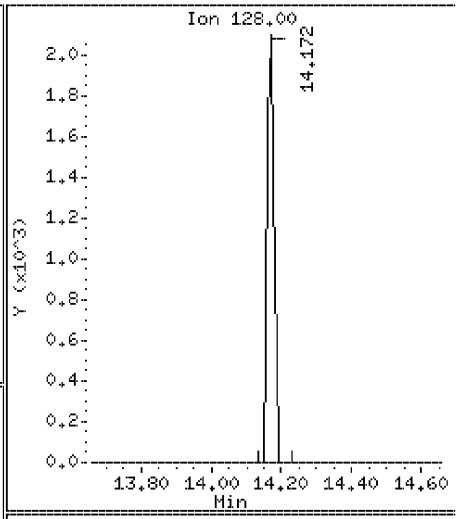
Column phase: J&W DB-5

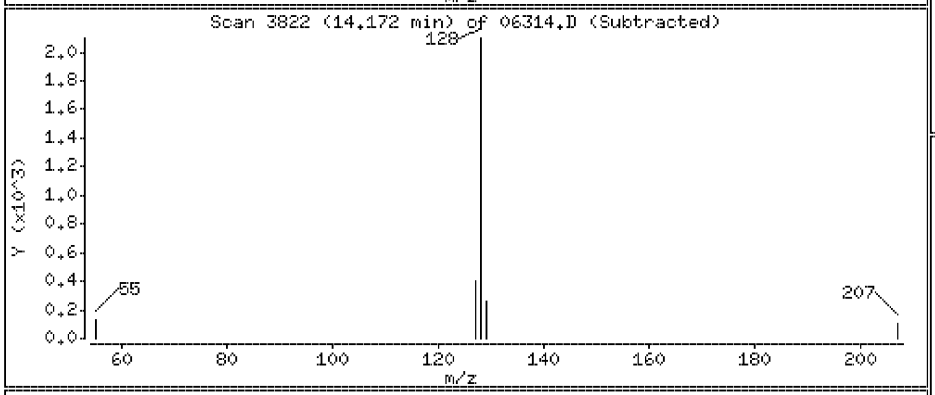
Column diameter: 0.32

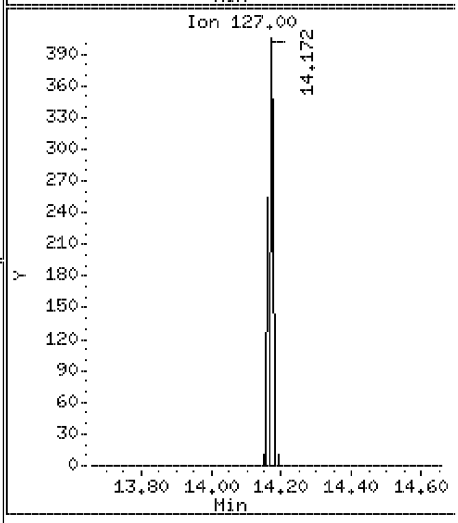
94 Naphthalene

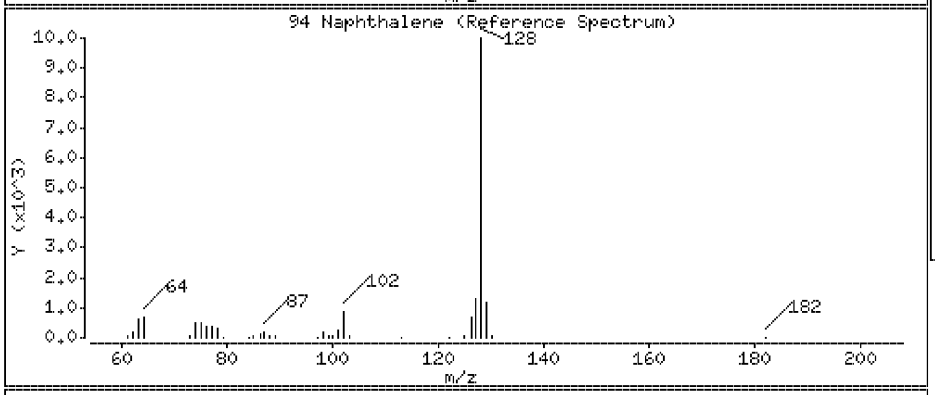
Concentration: 0.771 ppbv

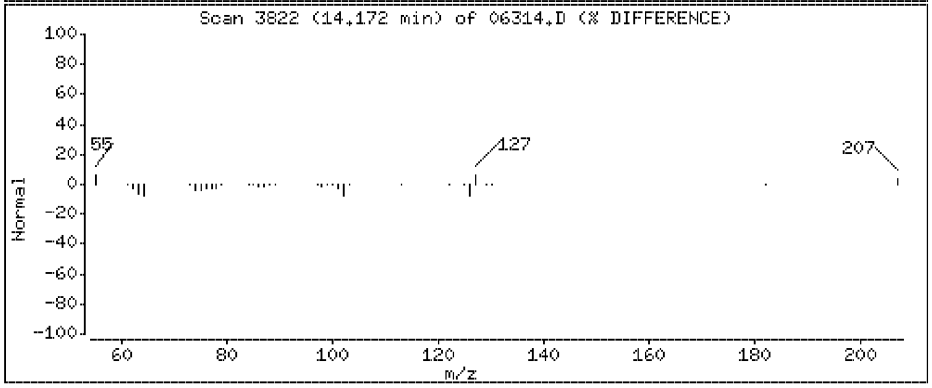






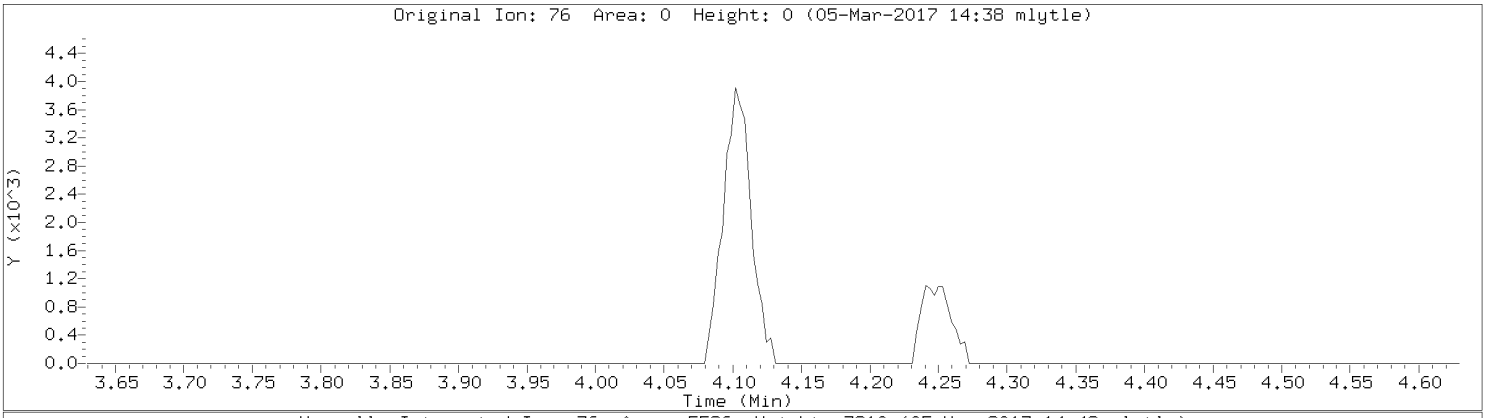


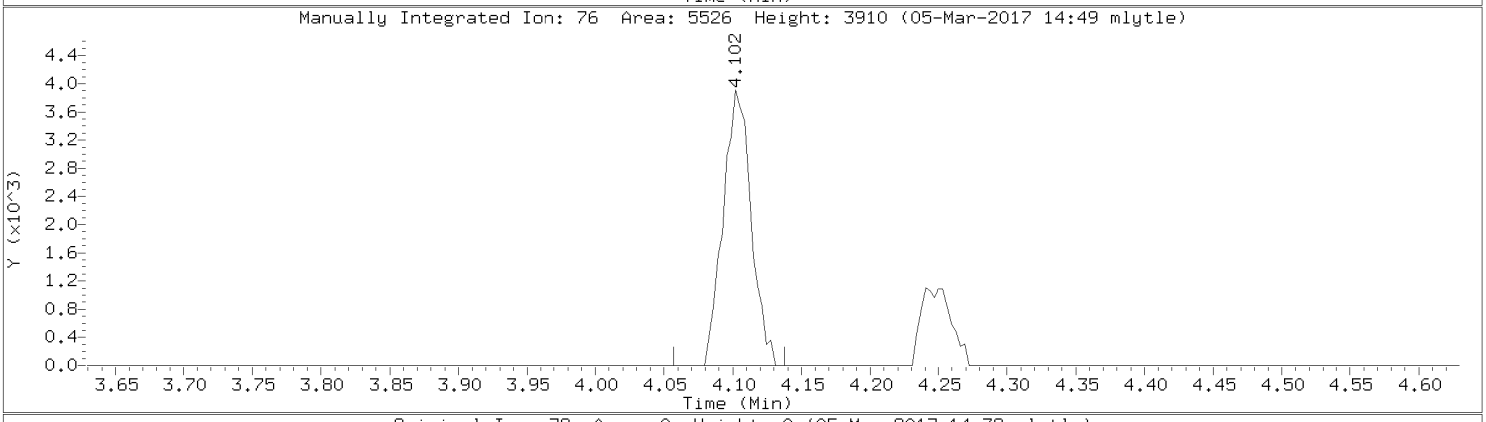


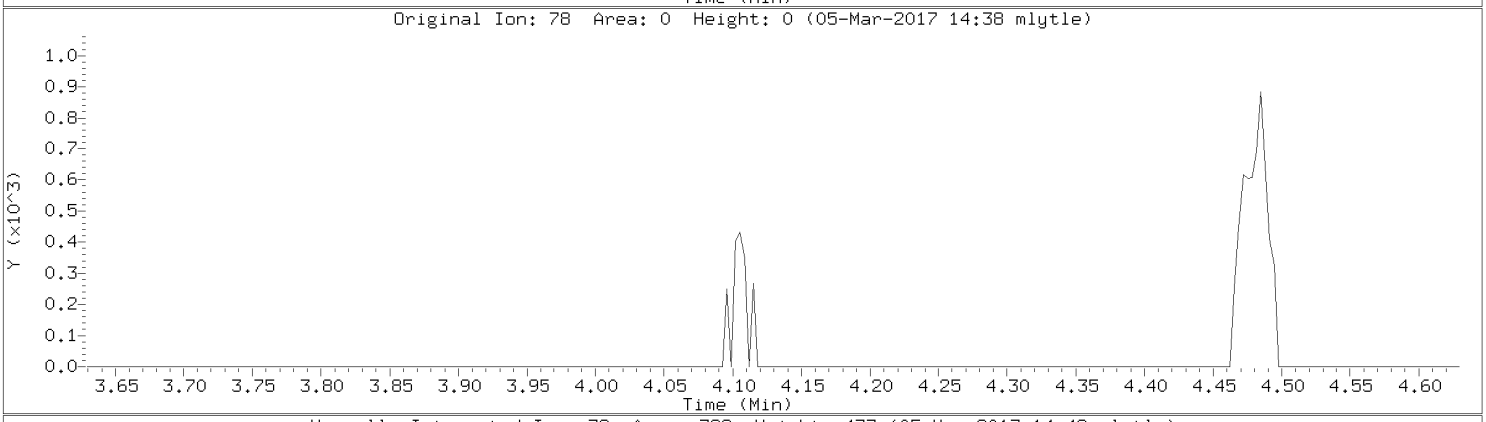


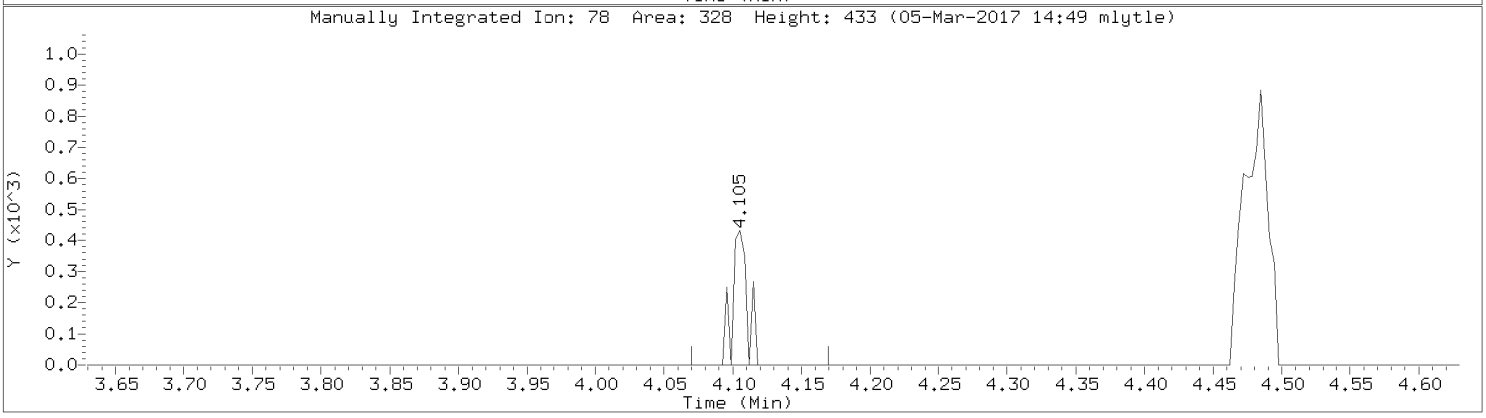
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06314.D
Injection Date: 04-MAR-2017 13:23
Instrument: 10airB.i
Lab Sample ID: 10379929009

Compound: Carbon Disulfide
CAS Number: 75-15-0



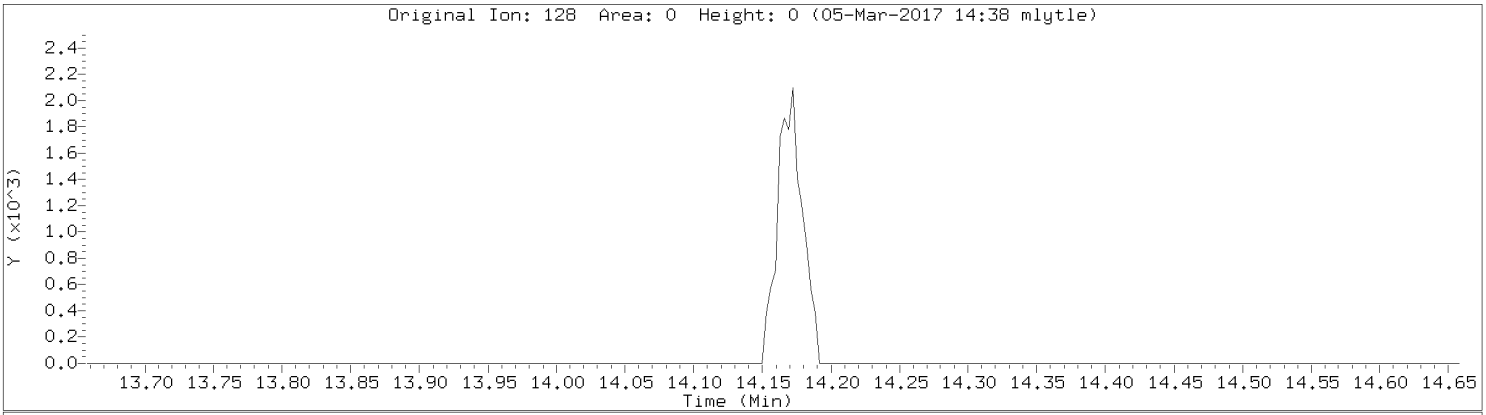


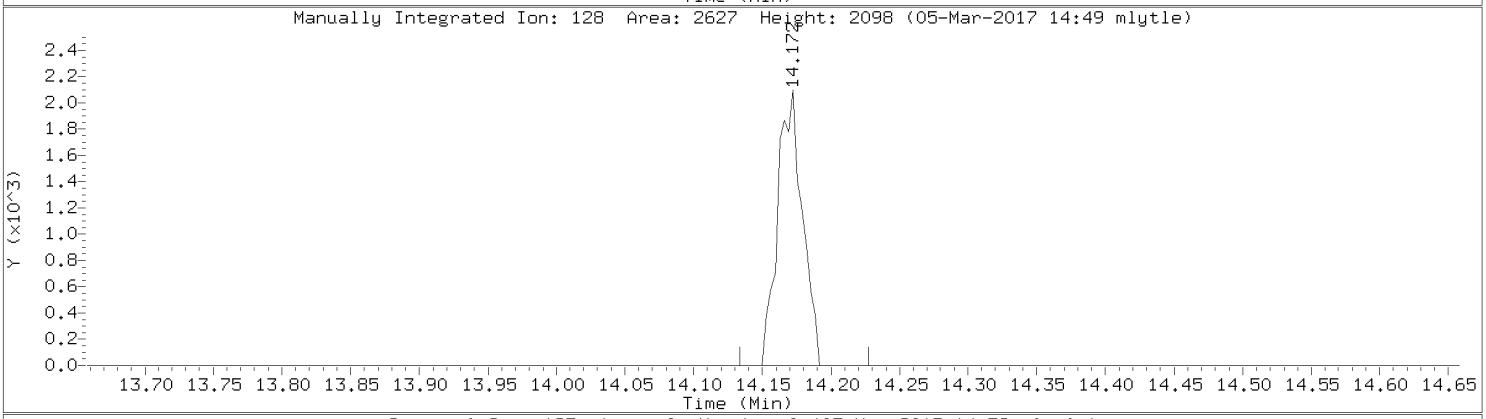


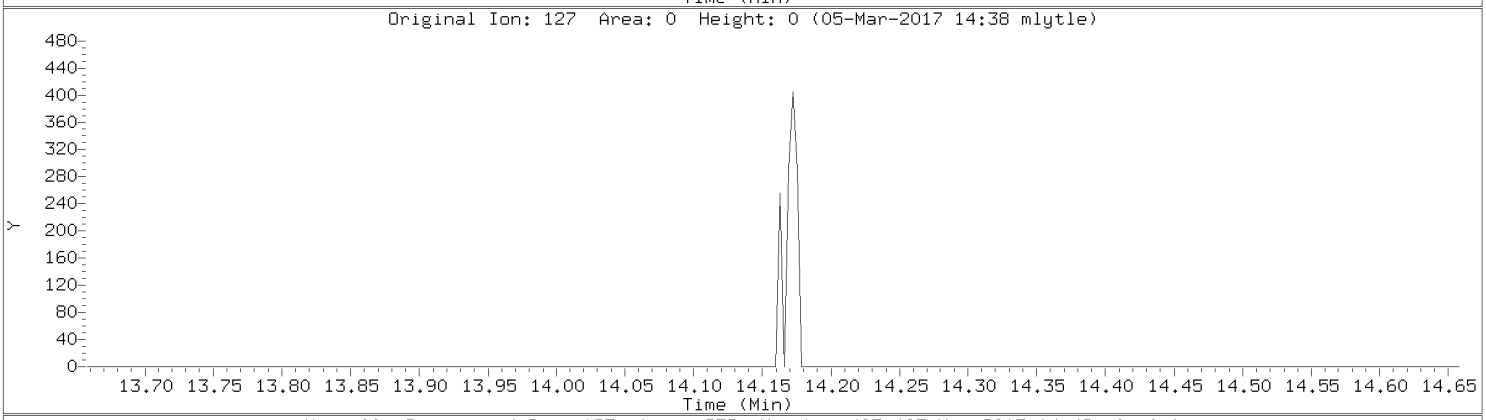


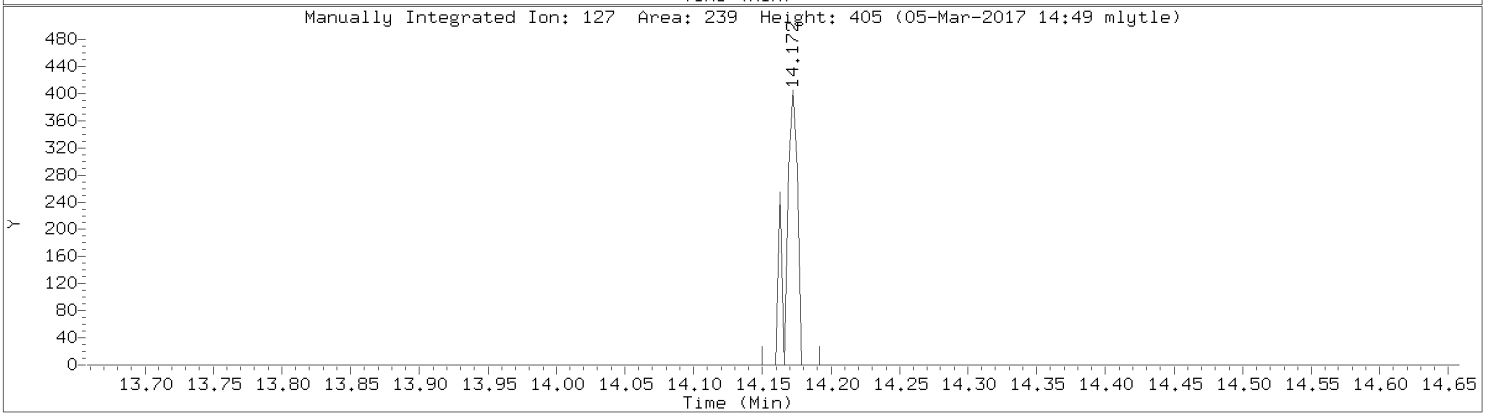
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06314.D
Injection Date: 04-MAR-2017 13:23
Instrument: 10airB.i
Lab Sample ID: 10379929009

Compound: Naphthalene
CAS Number: 91-20-3



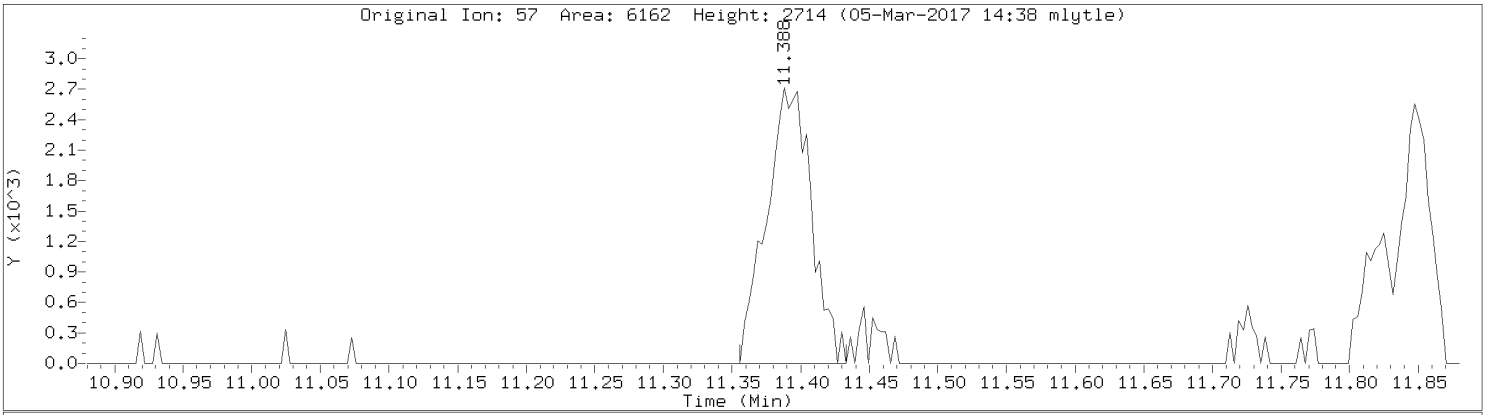


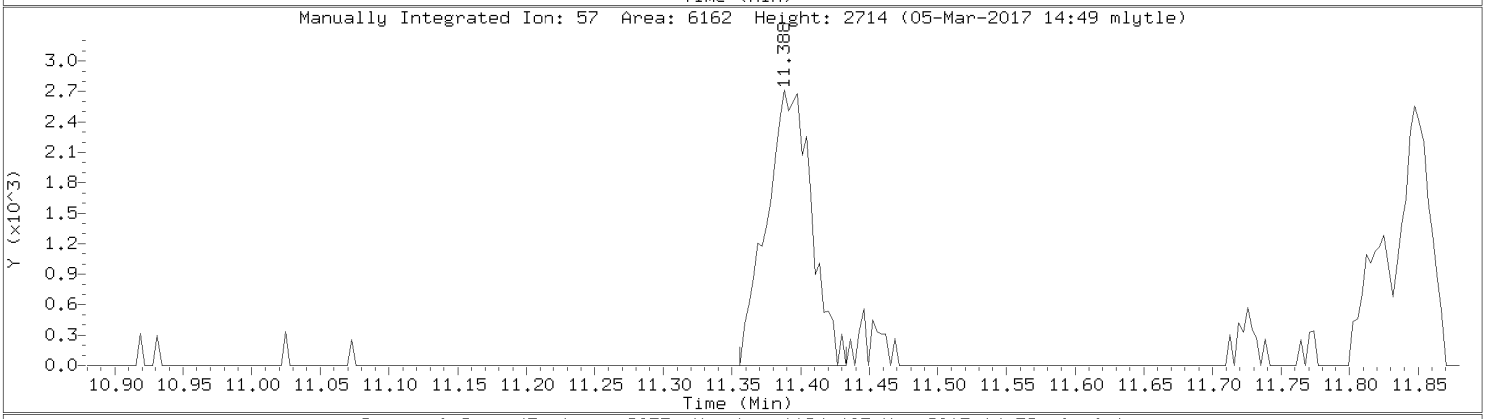


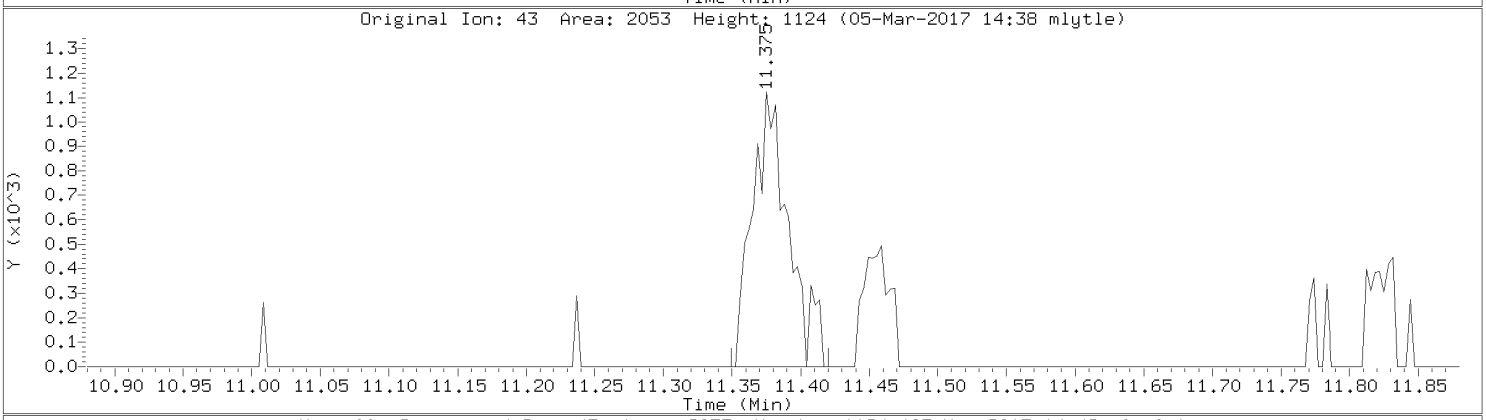


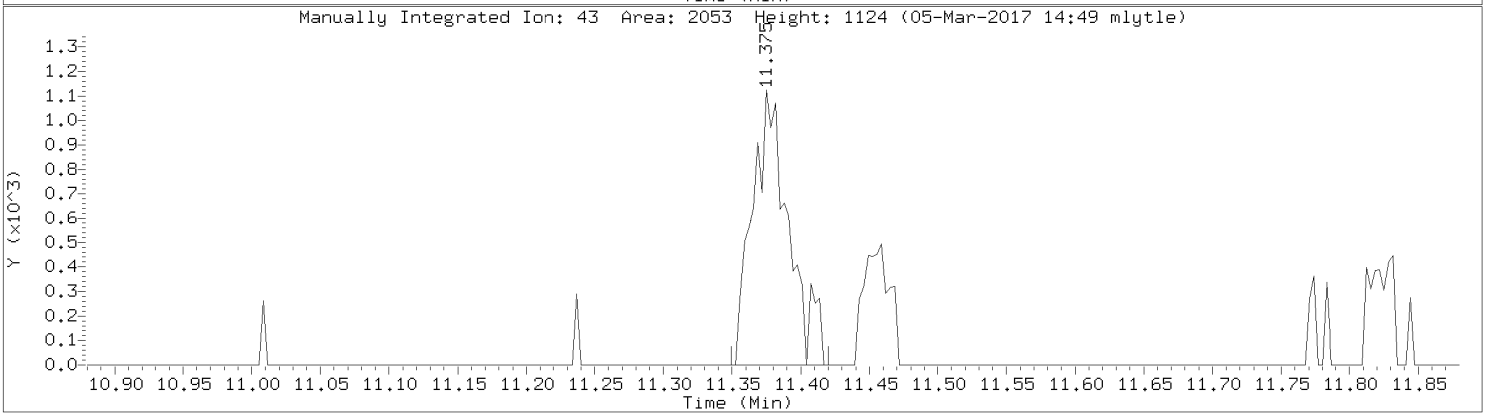
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06314.D
Injection Date: 04-MAR-2017 13:23
Instrument: 10airB.i
Lab Sample ID: 10379929009

Compound: n-Decane
CAS Number: 124-18-5

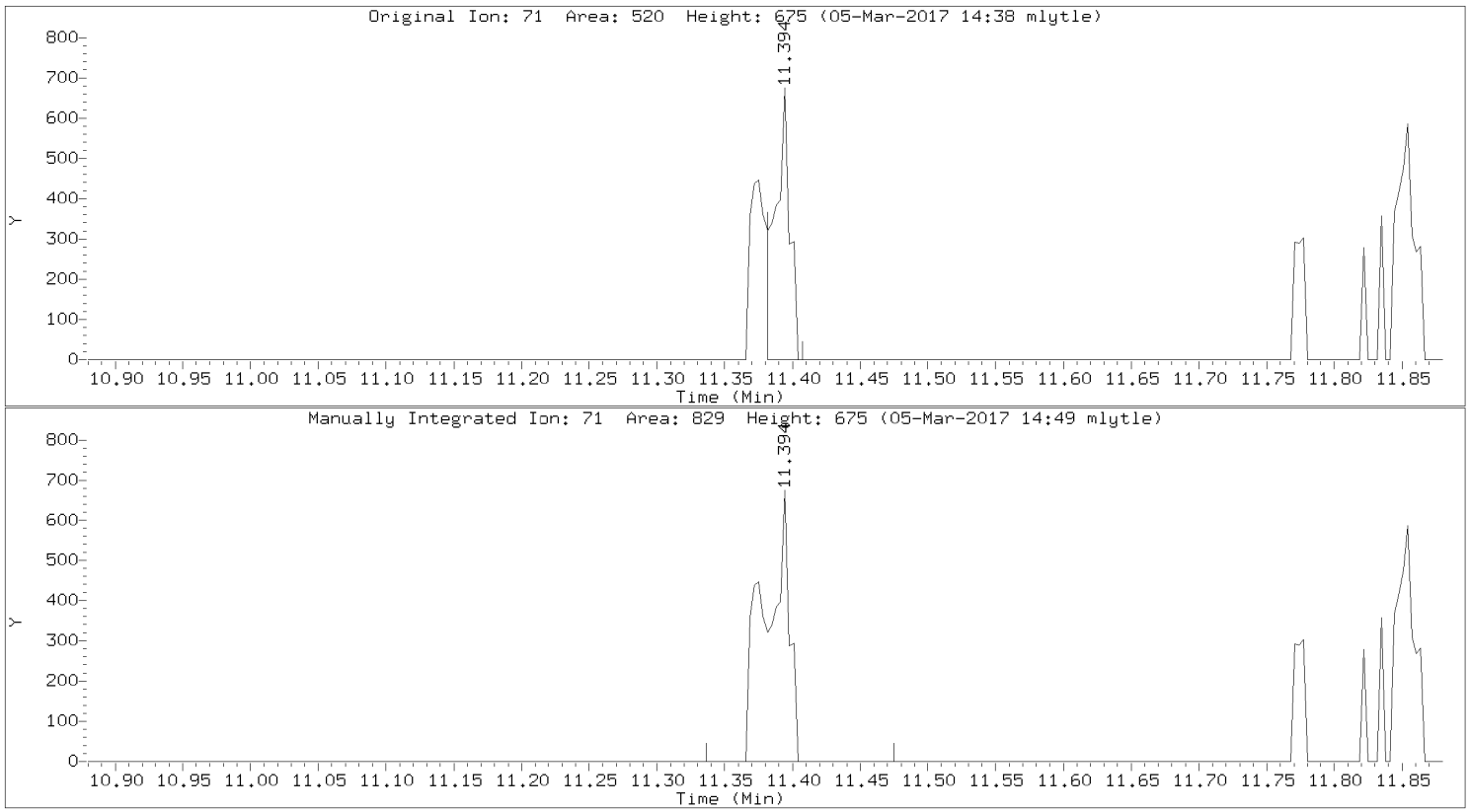








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06314.D
Injection Date: 04-MAR-2017 13:23
Instrument: 10airB.i
Lab Sample ID: 10379929009



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: FPM-20_5_20170221 **Lab ID: 10379929009** Collected: 02/21/17 13:47 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**51.8**	ug/m3	4.6	0.44	1.83		03/04/17 13:23	67-63-0	
Styrene	**1.4J**	ug/m3	1.6	0.35	1.83		03/04/17 13:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 13:23	79-34-5	
Tetrachloroethene	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 13:23	127-18-4	
Toluene	**4.2**	ug/m3	1.4	0.28	1.83		03/04/17 13:23	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 13:23	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 13:23	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/04/17 13:23	79-00-5	
Trichloroethene	**<0.51**	ug/m3	1.0	0.51	1.83		03/04/17 13:23	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.1	0.24	1.83		03/04/17 13:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/04/17 13:23	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/04/17 13:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 13:23	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 13:23	75-01-4	
m&p-Xylene	**43.3**	ug/m3	3.2	1.4	1.83		03/04/17 13:23	179601-23-1	
o-Xylene	**11.0**	ug/m3	1.6	0.64	1.83		03/04/17 13:23	95-47-6	

Sample: FPM-20_9.4_20170221 **Lab ID: 10379929010** Collected: 02/21/17 13:24 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**19.2**	ug/m3	4.4	1.5	1.83		03/04/17 13:54	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 13:54	107-05-1	
Benzene	**<0.22**	ug/m3	0.59	0.22	1.83		03/04/17 13:54	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 13:54	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 13:54	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 13:54	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 13:54	106-99-0	
2-Butanone (MEK)	**1.5J**	ug/m3	5.5	0.42	1.83		03/04/17 13:54	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/04/17 13:54	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/04/17 13:54	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 13:54	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 13:54	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 13:54	75-00-3	
Chloroform	**4.7**	ug/m3	0.91	0.35	1.83		03/04/17 13:54	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/04/17 13:54	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 13:54	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/04/17 13:54	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 13:54	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 13:54	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 13:54	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 13:54	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 13:54	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: FPM-20_9.4_20170221 **Lab ID: 10379929010** Collected: 02/21/17 13:24 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 13:54	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.8	0.88	1.83		03/04/17 13:54	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 13:54	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 13:54	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 13:54	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/04/17 13:54	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/04/17 13:54	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 13:54	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 13:54	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 13:54	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 13:54	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 13:54	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 13:54	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/04/17 13:54	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 13:54	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 13:54	87-68-3	
n-Hexane	**0.69J**	ug/m3	1.3	0.65	1.83		03/04/17 13:54	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/04/17 13:54	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 13:54	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 13:54	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 13:54	108-87-2	
Methylene Chloride	**5.6J**	ug/m3	6.5	0.99	1.83		03/04/17 13:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 13:54	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 13:54	1634-04-4	
2-Propanol	**2.8J**	ug/m3	4.6	0.44	1.83		03/04/17 13:54	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/04/17 13:54	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 13:54	79-34-5	
Tetrachloroethene	**3.0**	ug/m3	1.3	0.51	1.83		03/04/17 13:54	127-18-4	
Toluene	**6.7**	ug/m3	1.4	0.28	1.83		03/04/17 13:54	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 13:54	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 13:54	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/04/17 13:54	79-00-5	
Trichloroethene	**1.1**	ug/m3	1.0	0.51	1.83		03/04/17 13:54	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.1	0.24	1.83		03/04/17 13:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/04/17 13:54	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/04/17 13:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 13:54	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 13:54	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/04/17 13:54	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/04/17 13:54	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D
Report Date: 05-Mar-2017 14:52

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06315.D
Lab Smp Id: 10379929010
Inj Date : 04-MAR-2017 13:54
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 15
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.012	3.018	(0.538)	271036	35.9226	65.7(AQ)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.044	3.060	(0.544)	12171	0.25621	0.469	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.545	(0.634)	11304	2.39048	4.37	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.578	3.600	(0.639)	8404	0.51966	0.951	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.655	3.674	(0.653)	4283	0.12139	0.222	
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	3.716	3.722	(0.664)	88770	4.34732	7.96	
19	Isopropyl Alcohol	45	3.777	3.767	(0.675)	12712	0.61042	1.12	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D
Report Date: 05-Mar-2017 14:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.976	4.005	(0.710)	12483	0.86614	1.59	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.391	(0.792)	3374	0.28117	0.515	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.491	(0.800)	398858	9.74135	9.74	
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.814)	1229	0.27339	0.500(Q)	
	34 n-Hexane	57	4.571	4.584	(0.817)	2144	0.10447	0.191(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.809	4.841	(0.859)	13912	0.52180	0.955	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	1286952	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.970	5.989	(1.067)	2277	0.10530	0.193	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.263)	1097992	9.53236	9.53	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.276)	49975	0.96146	1.76	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	6942	0.23805	0.436	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	839829	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.079	9.082	(1.051)	6760	0.13943	0.255	
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D
Report Date: 05-Mar-2017 14:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	466875	10.0917	10.1	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	2770	0.41960	0.768(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D
Report Date: 05-Mar-2017 14:52

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06315.D
Lab Smp Id: 10379929010
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

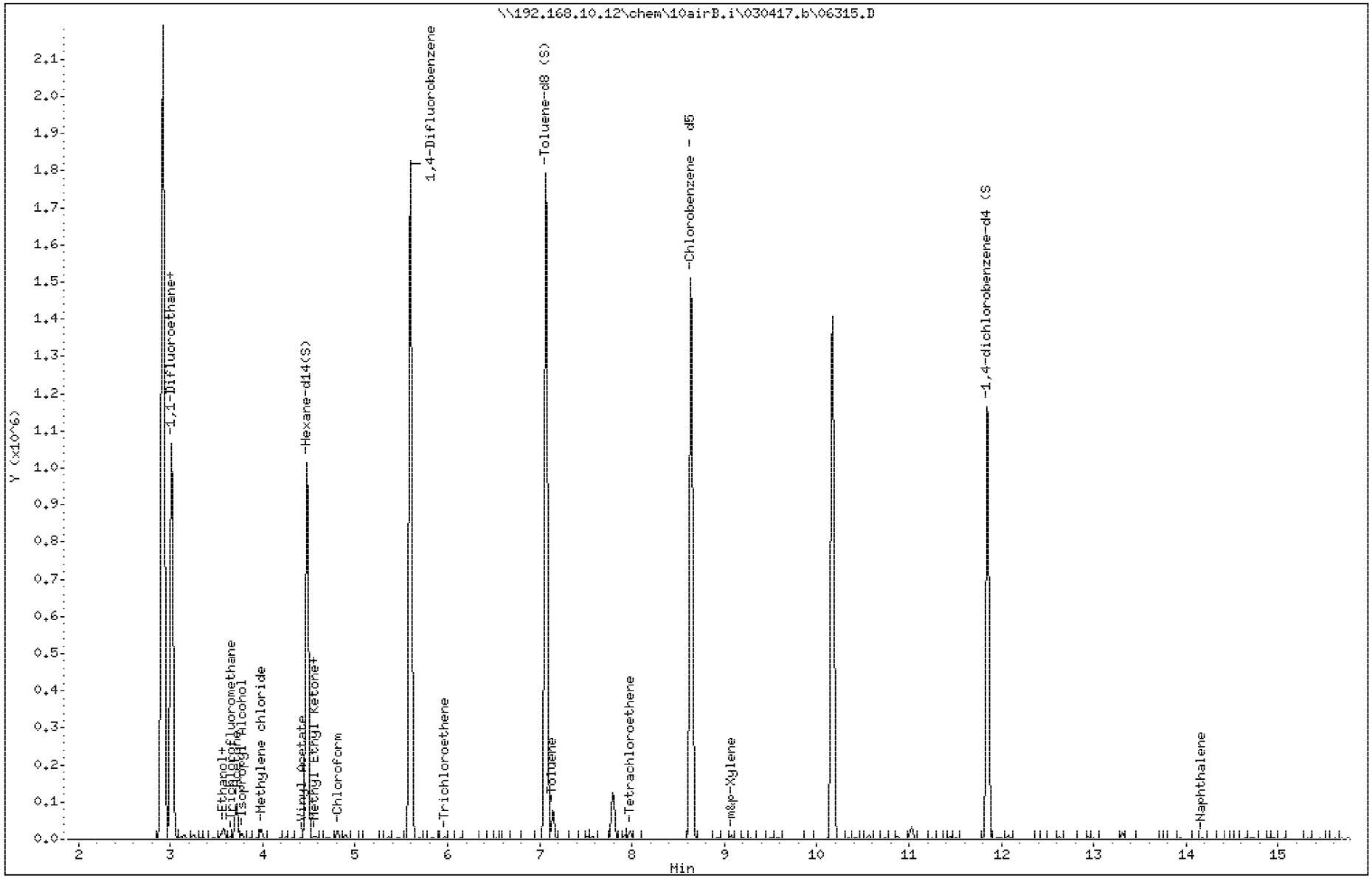
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1286952	-8.99
67 Chlorobenzene - d	951026	570616	1331436	839829	-11.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D
Date : 04-MAR-2017 13:54
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

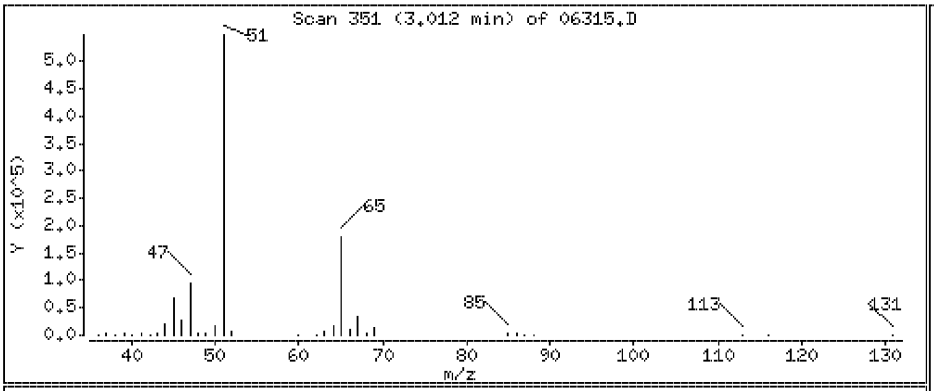
Operator: MJL

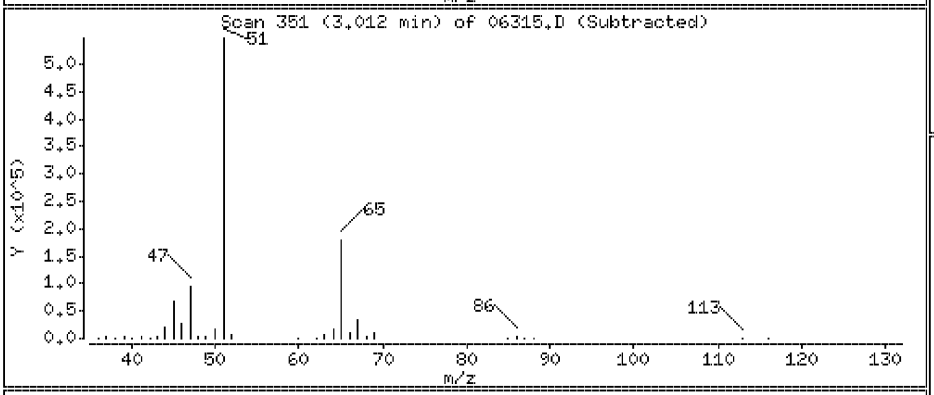
Column phase: J&W DB-5

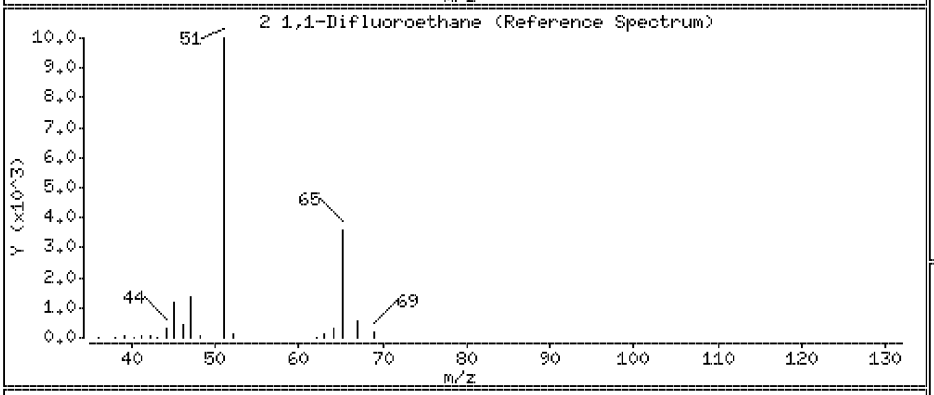
Column diameter: 0.32

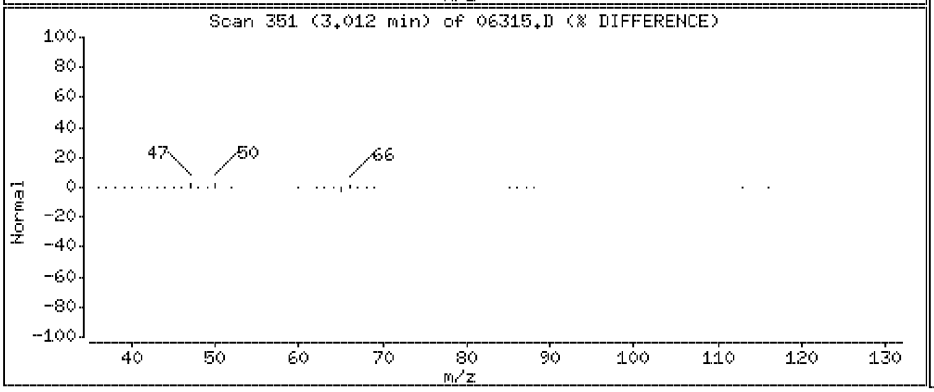
2 1,1-Difluoroethane

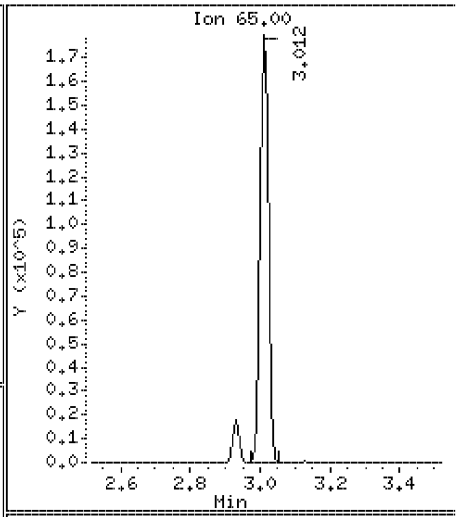
Concentration: 65.7 ppbv

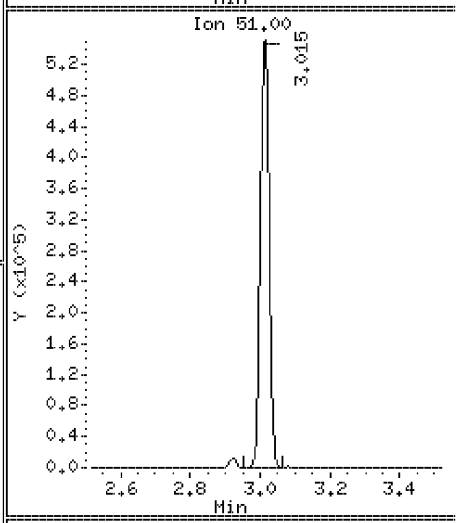


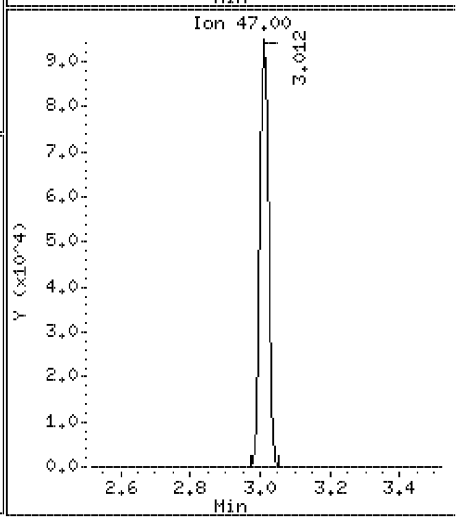












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

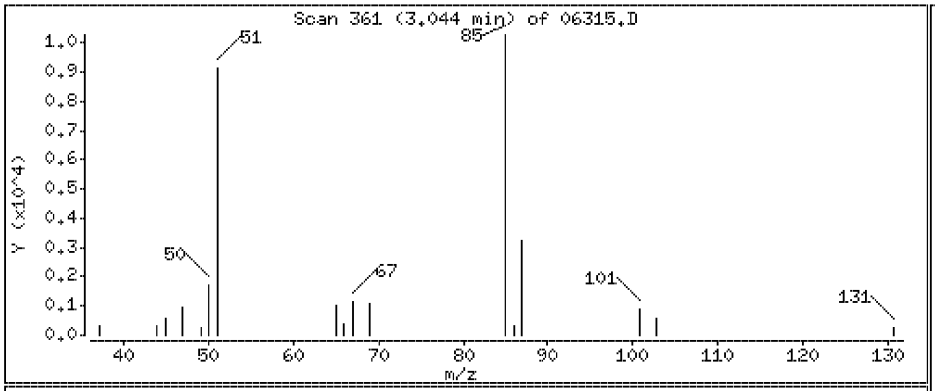
Operator: MJL

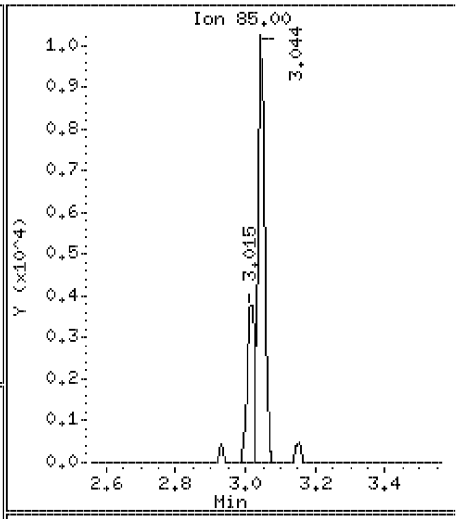
Column phase: J&W DB-5

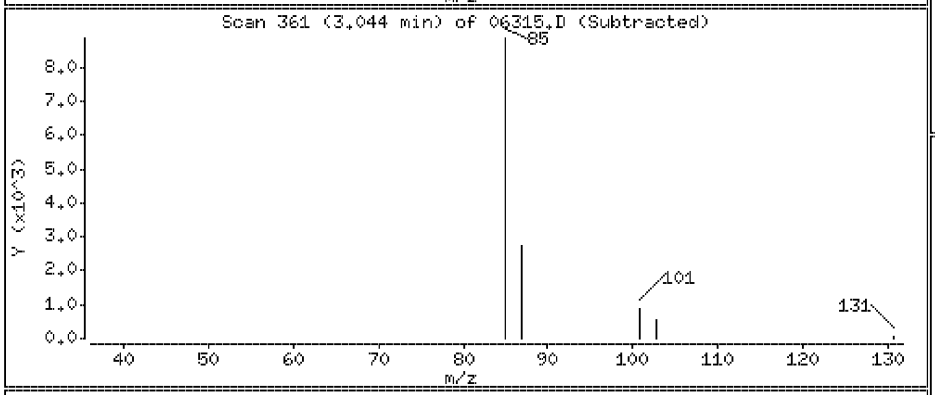
Column diameter: 0.32

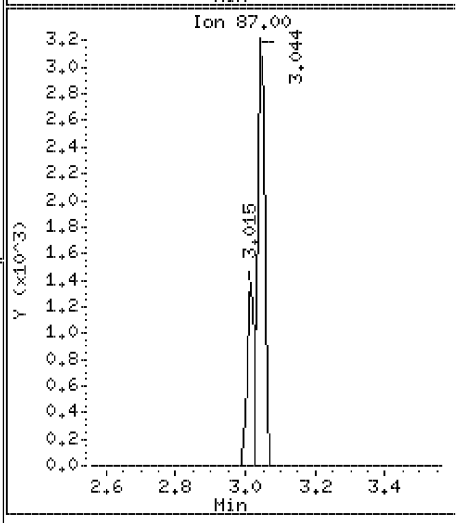
5 Dichlorodifluoromethane

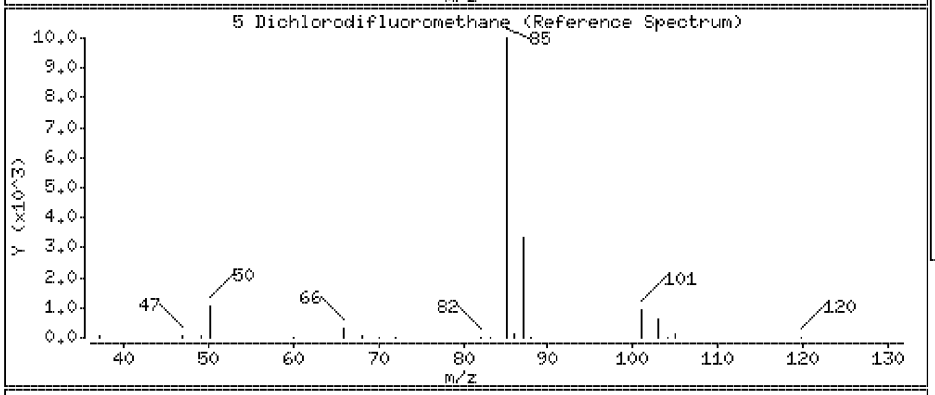
Concentration: 0.469 ppbv

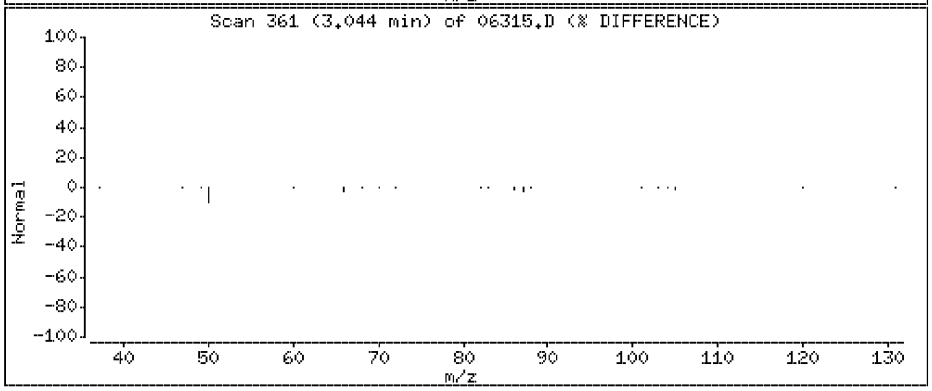












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

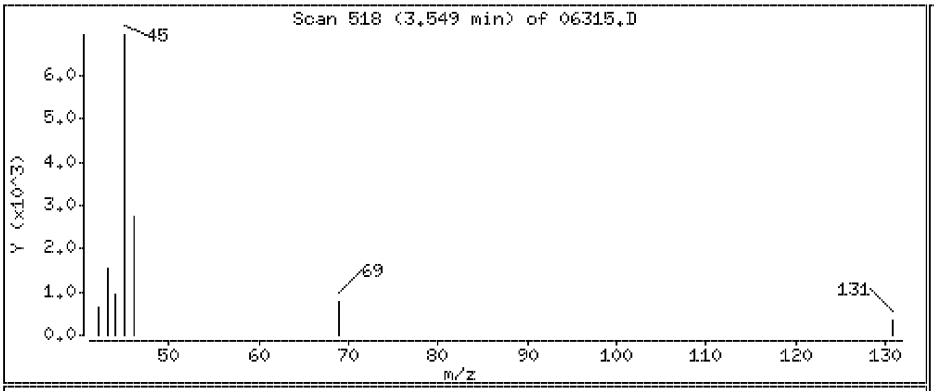
Operator: MJL

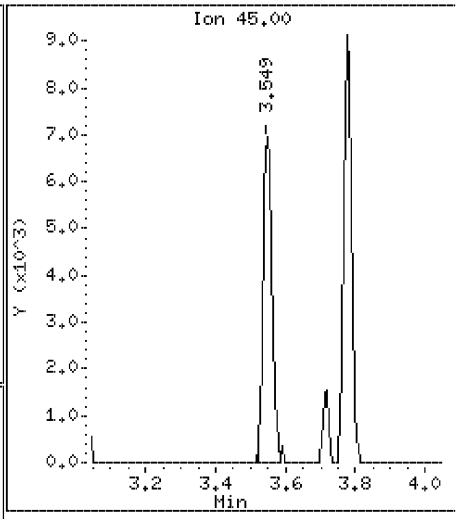
Column phase: J&W DB-5

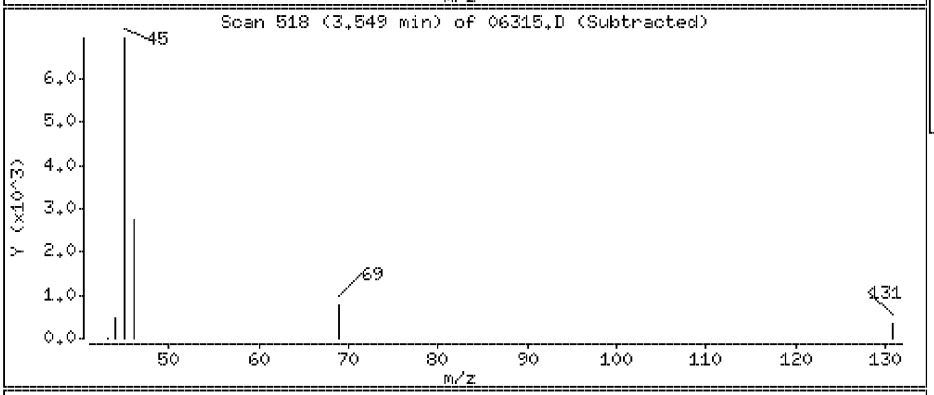
Column diameter: 0.32

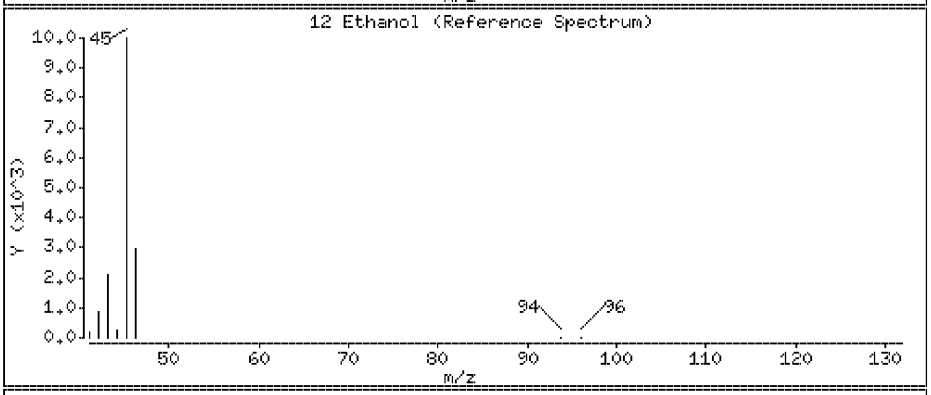
12 Ethanol

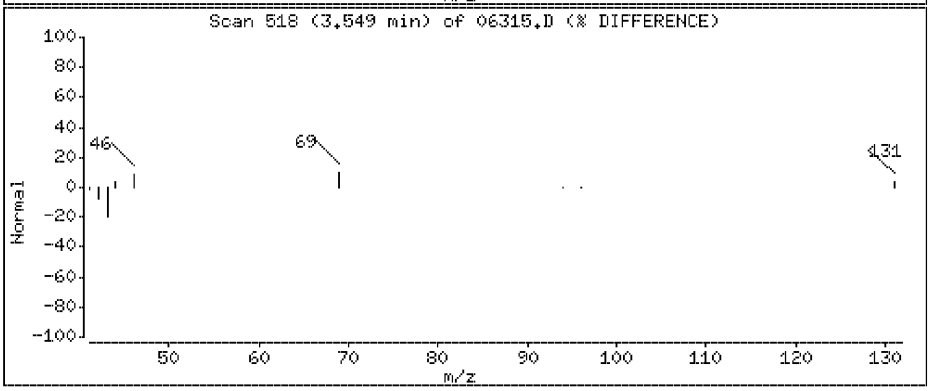
Concentration: 4.37 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

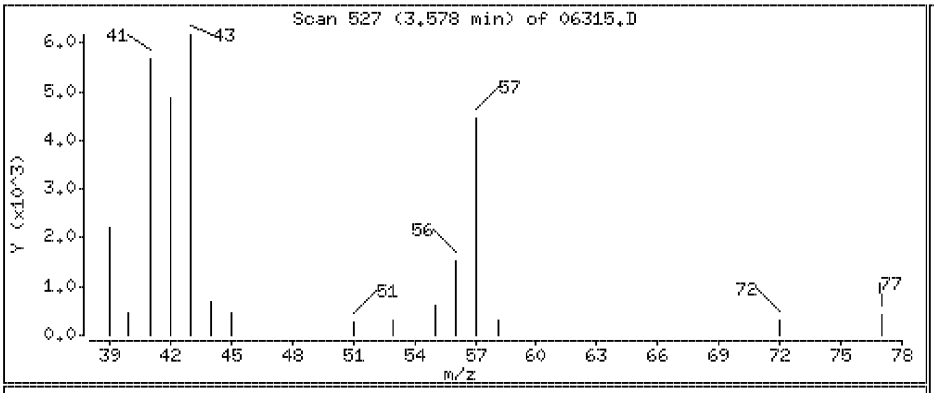
Operator: MJL

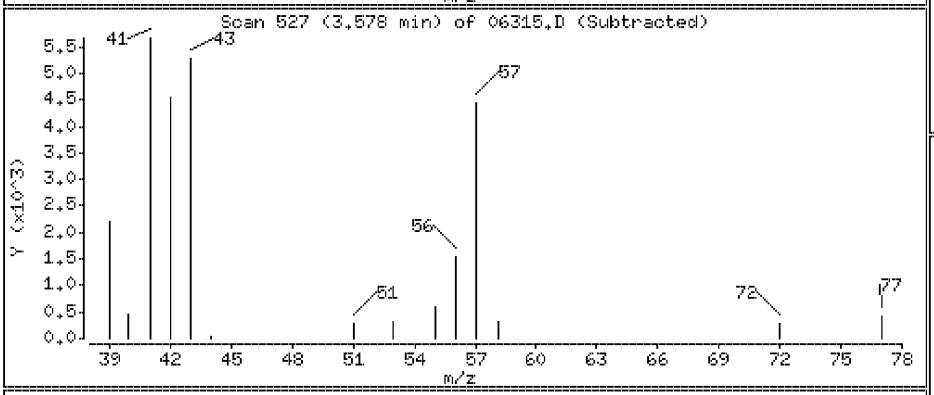
Column phase: J&W DB-5

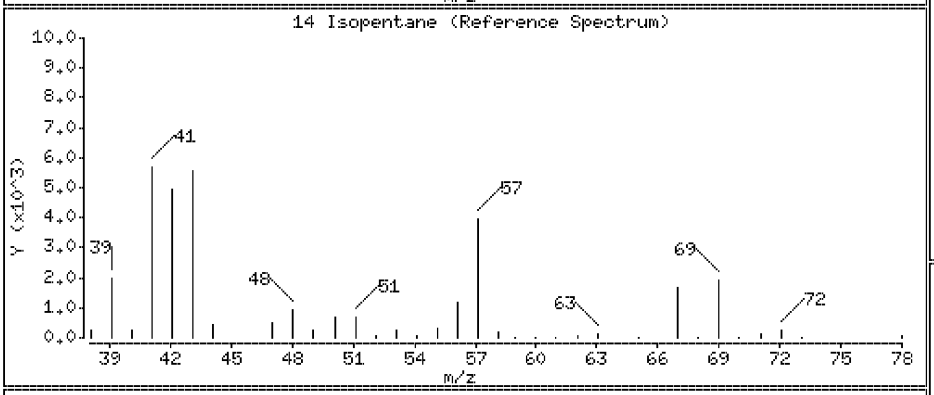
Column diameter: 0.32

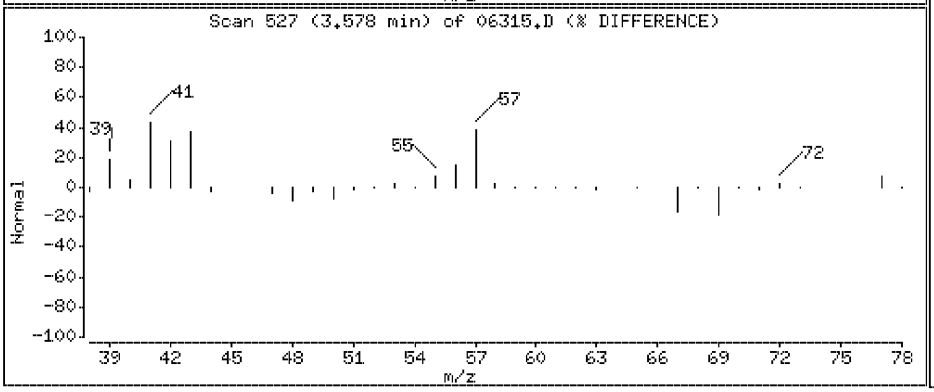
14 Isopentane

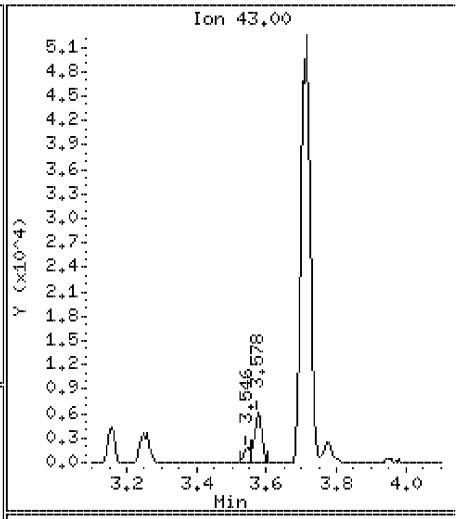
Concentration: 0.951 ppbv

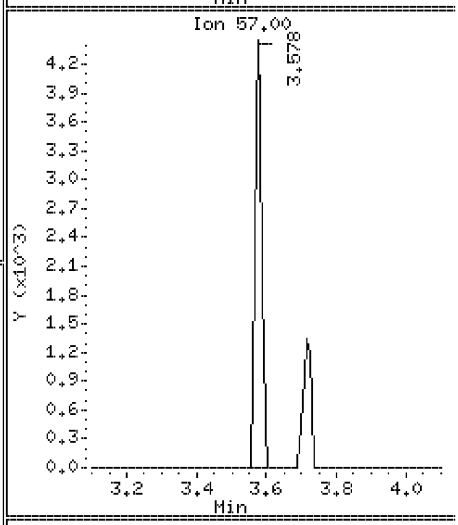


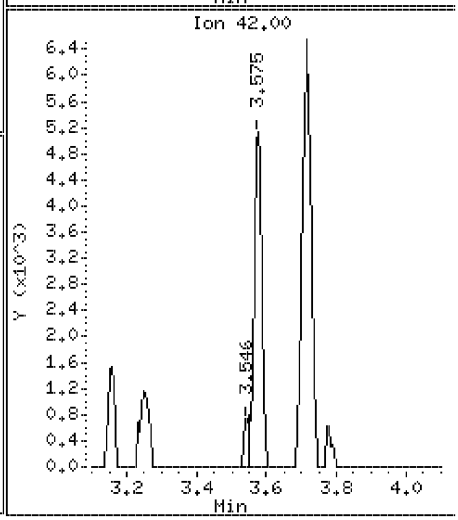












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

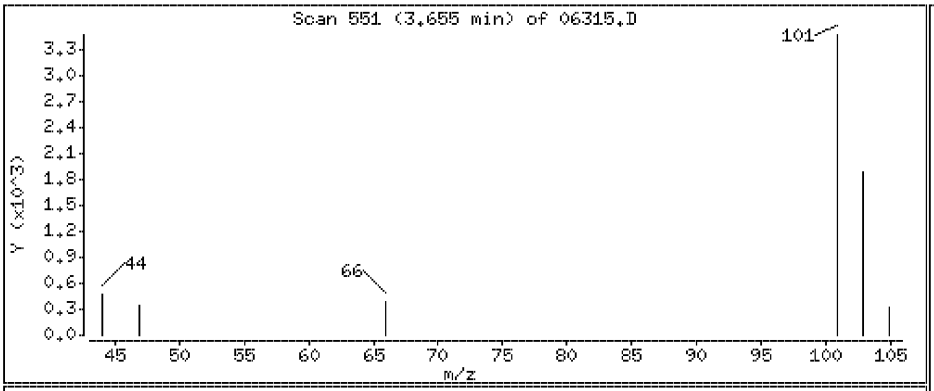
Operator: MJL

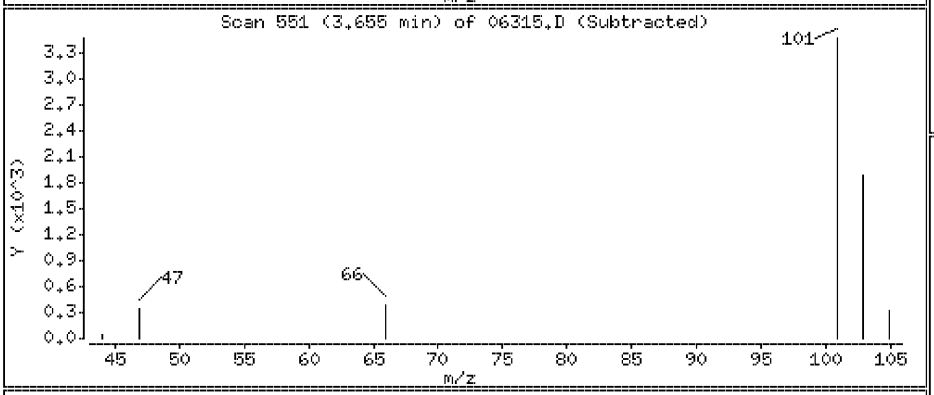
Column phase: J&W DB-5

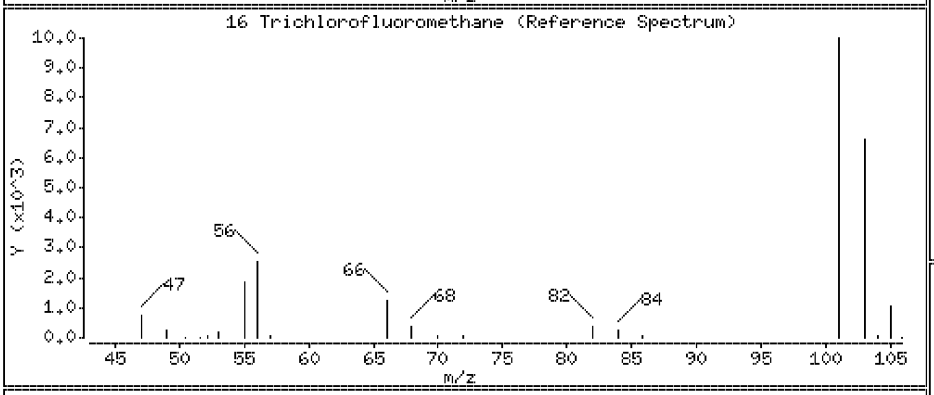
Column diameter: 0.32

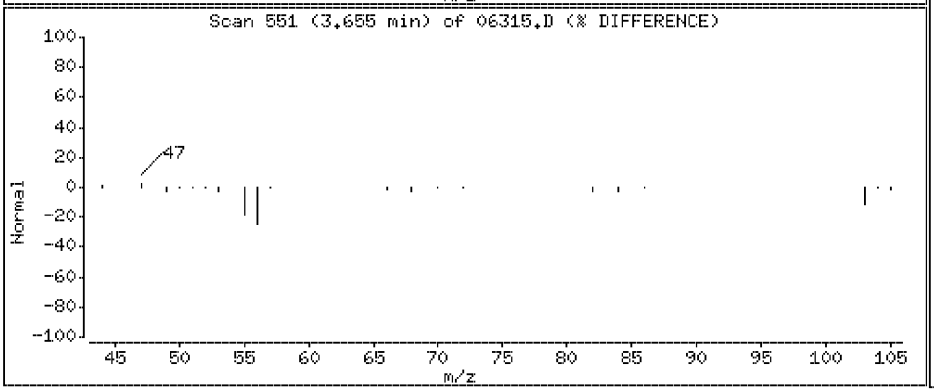
16 Trichlorofluoromethane

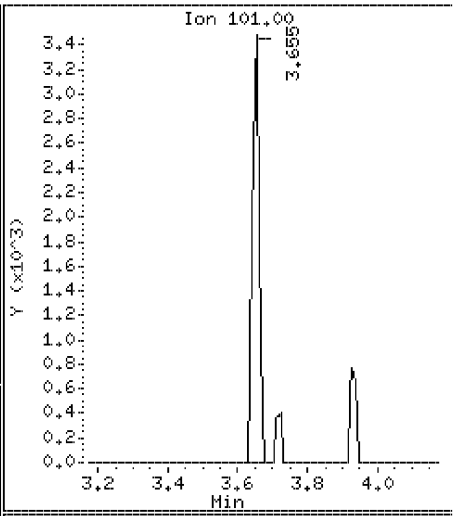
Concentration: 0.222 ppbv

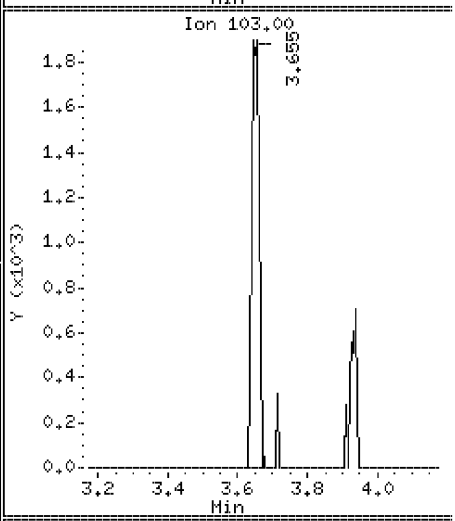


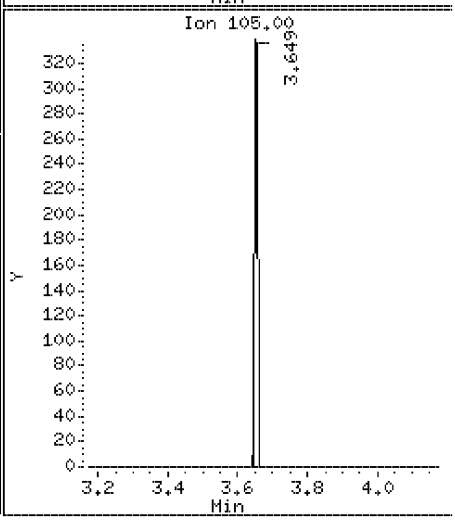












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

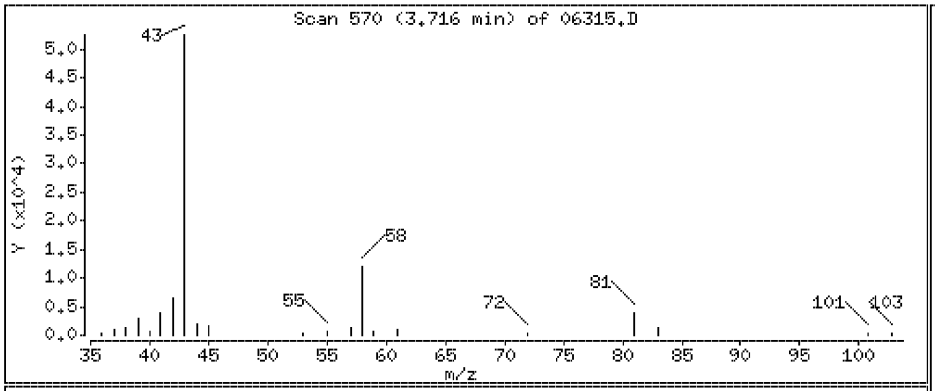
Operator: MJL

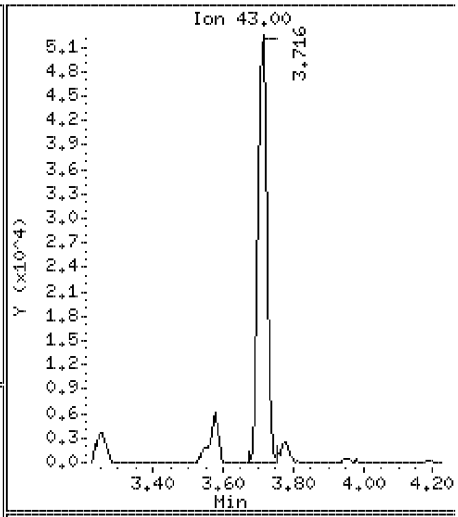
Column phase: J&W DB-5

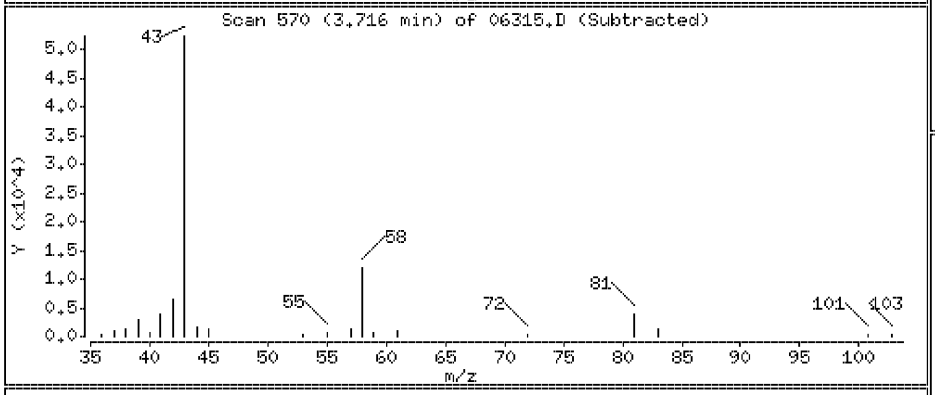
Column diameter: 0.32

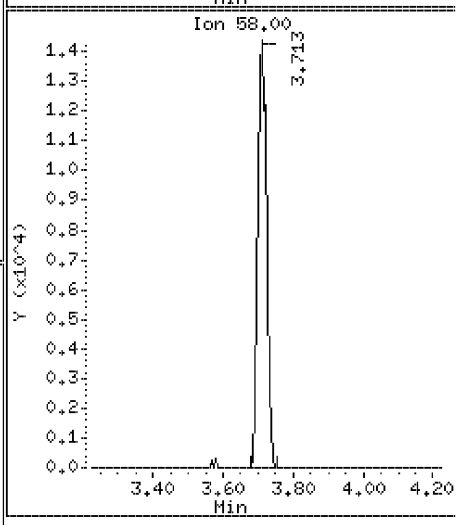
18 Acetone

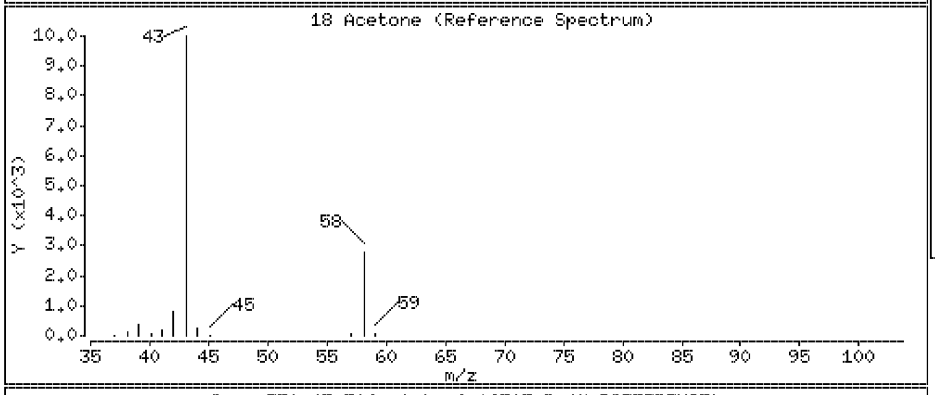
Concentration: 7.96 ppbv

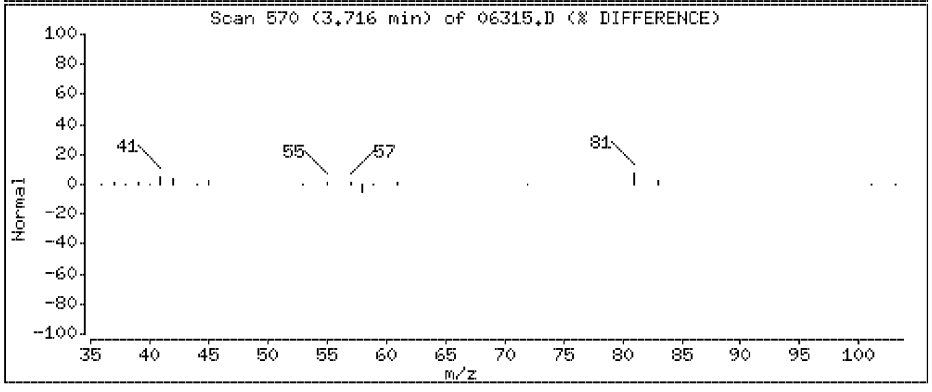












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

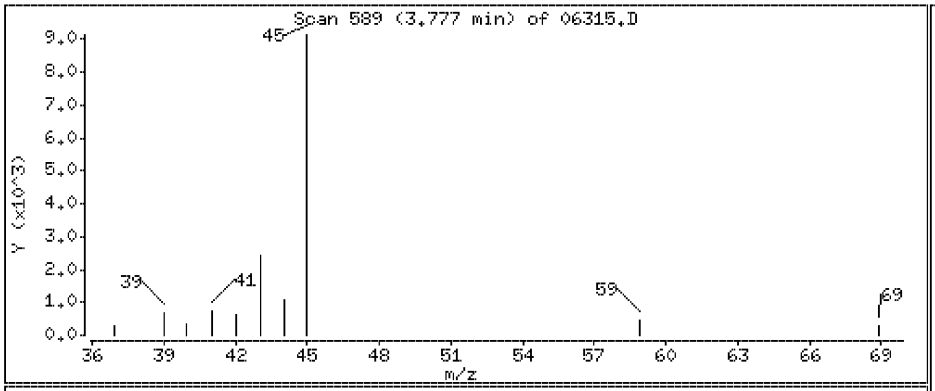
Operator: MJL

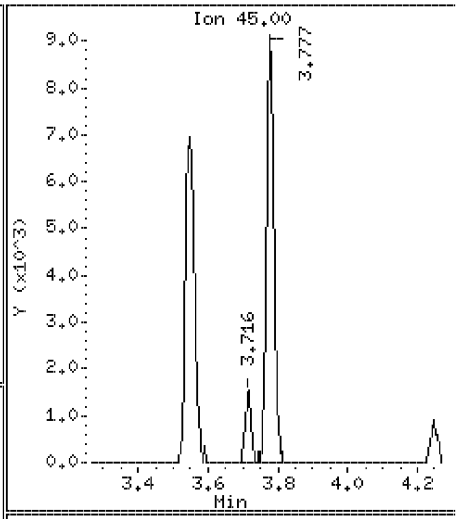
Column phase: J&W DB-5

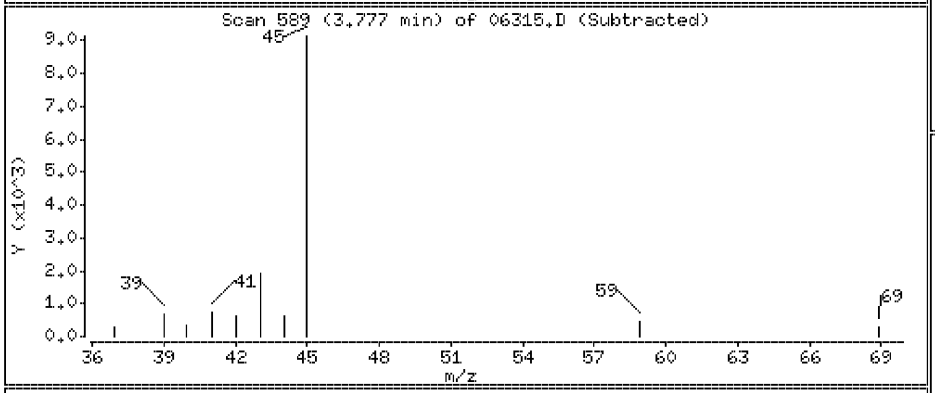
Column diameter: 0.32

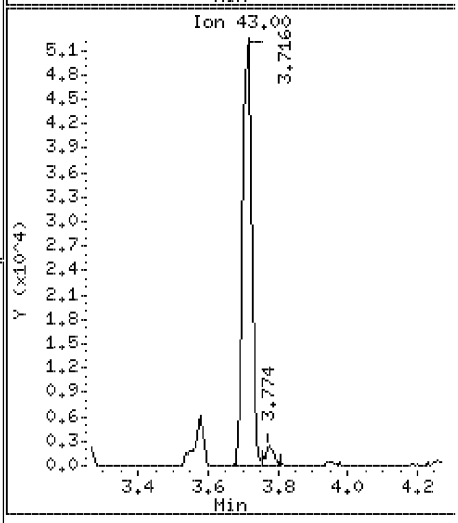
19 Isopropyl Alcohol

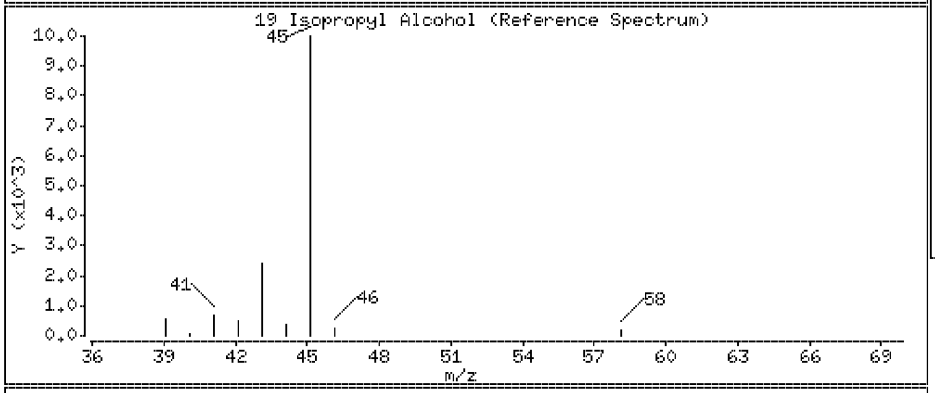
Concentration: 1.12 ppbv

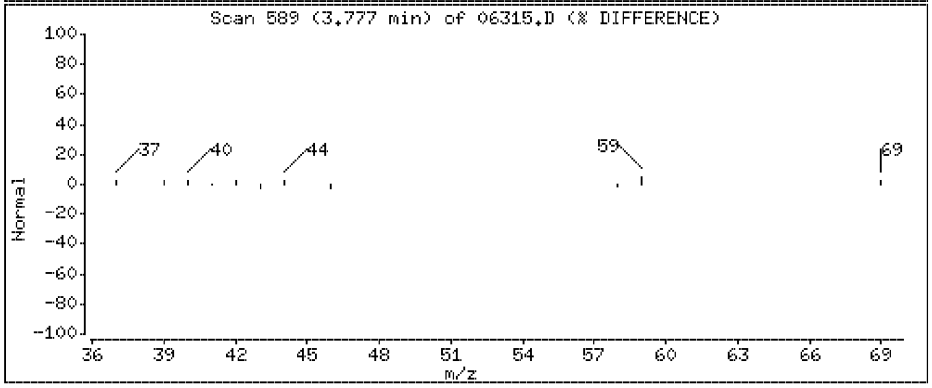












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

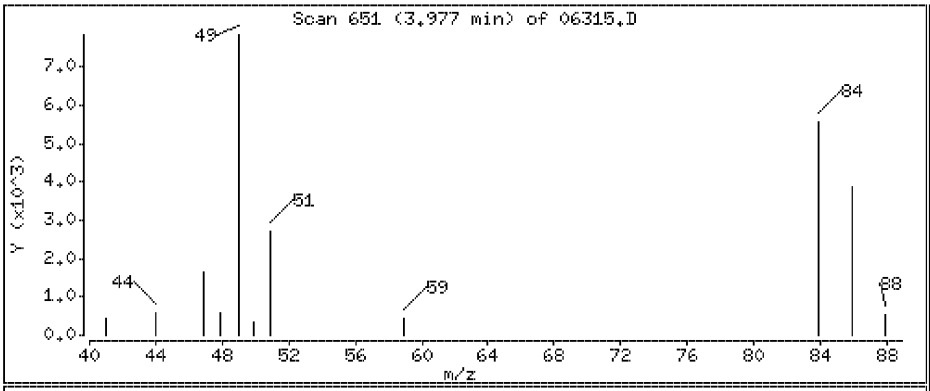
Operator: MJL

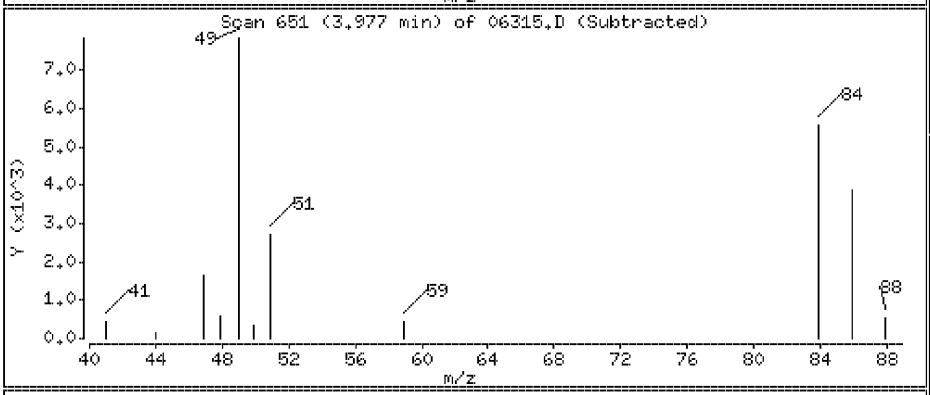
Column phase: J&W DB-5

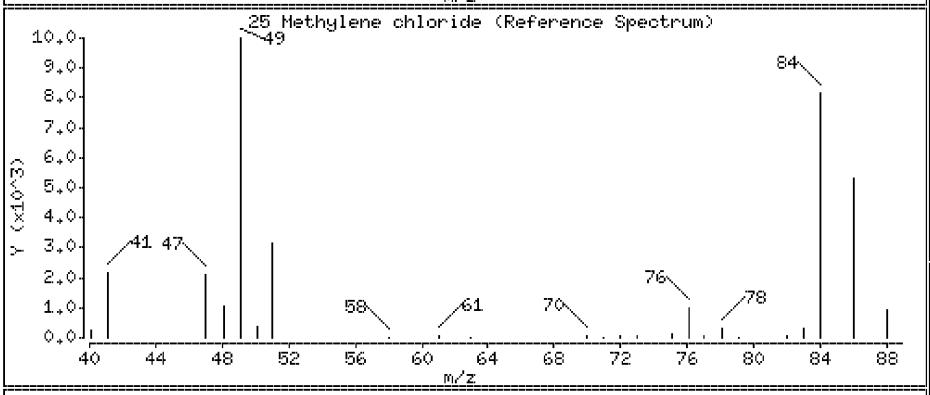
Column diameter: 0.32

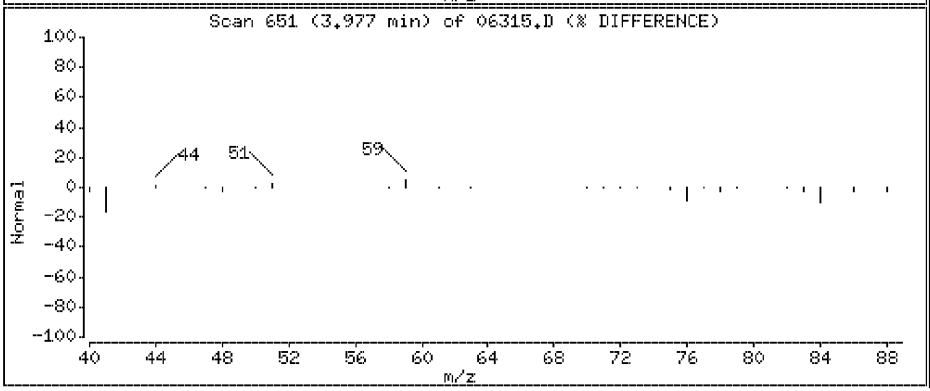
25 Methylene chloride

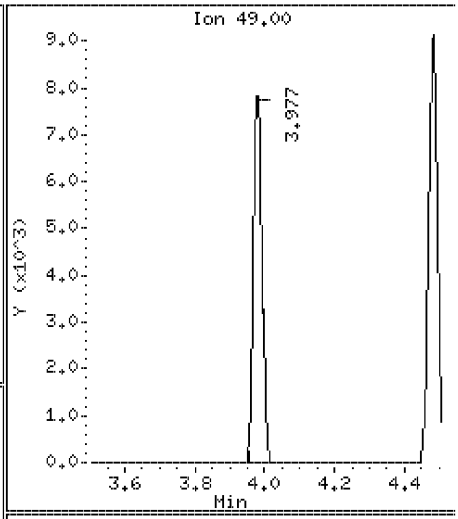
Concentration: 1.59 ppbv

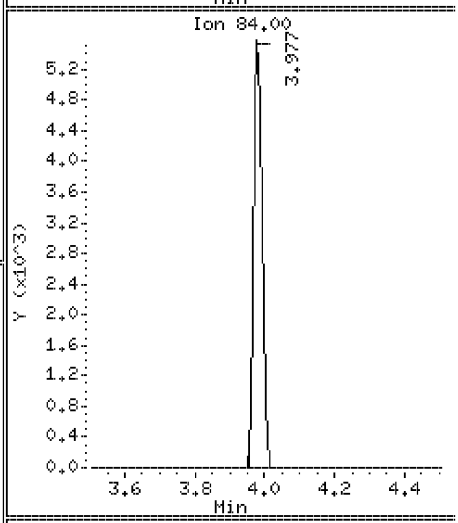


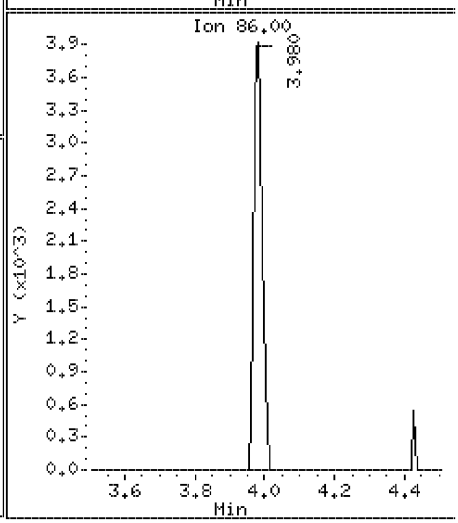












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

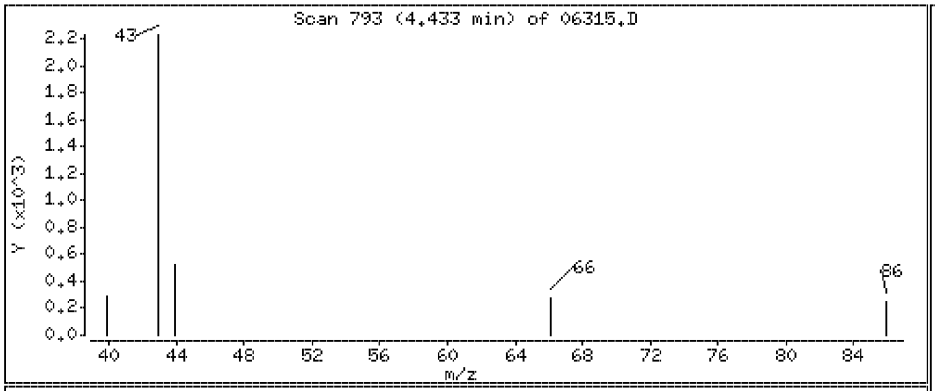
Operator: MJL

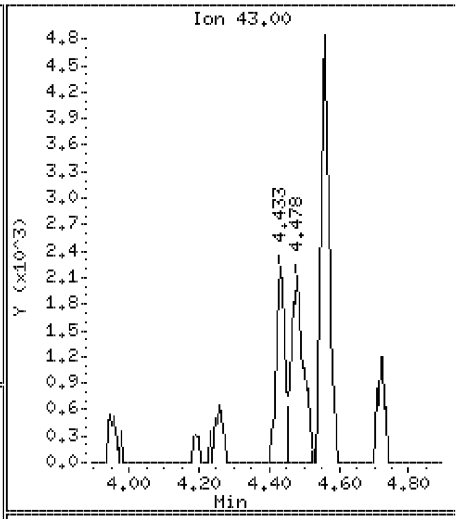
Column phase: J&W DB-5

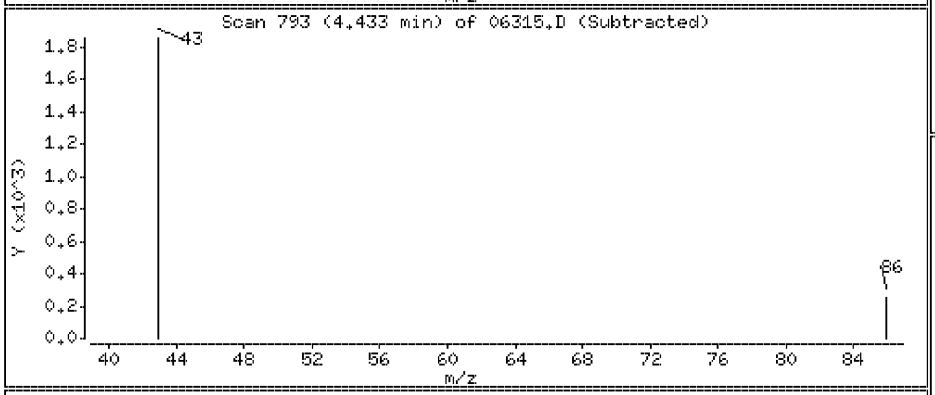
Column diameter: 0.32

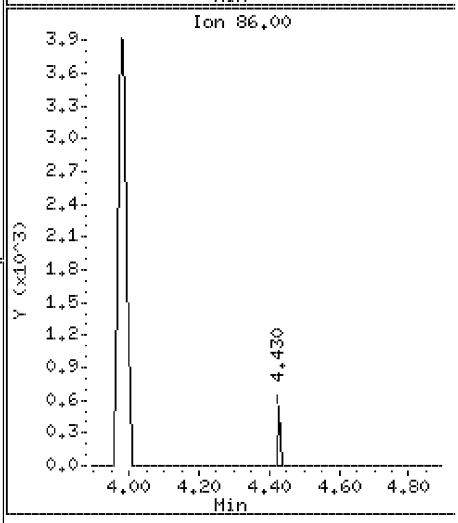
30 Vinyl Acetate

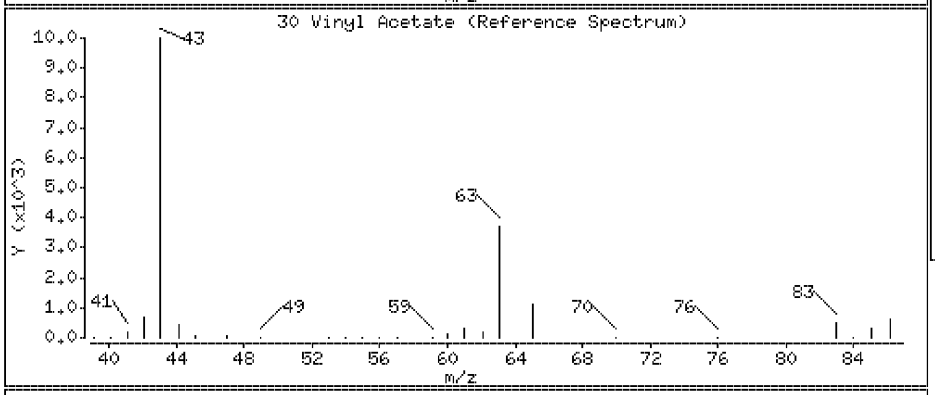
Concentration: 0.515 ppbv

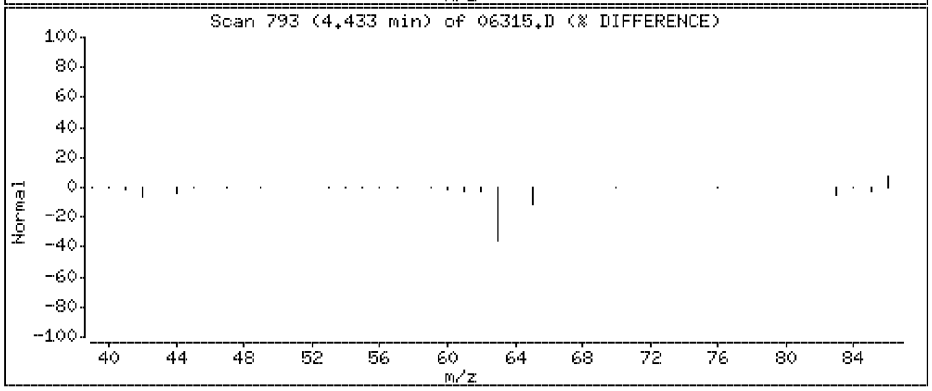












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

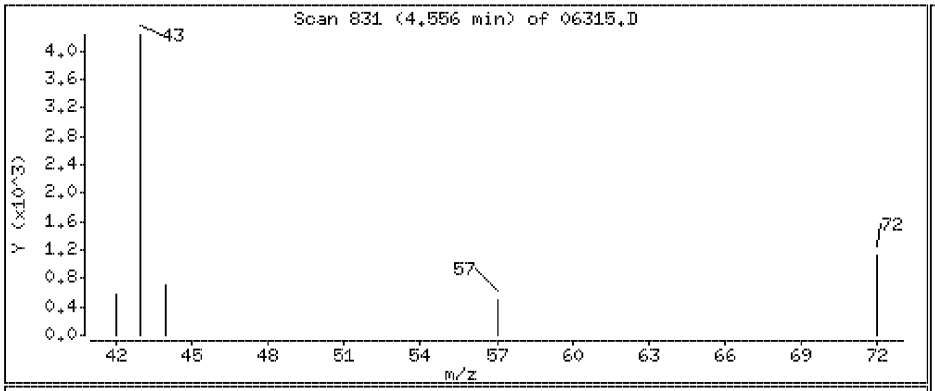
Operator: MJL

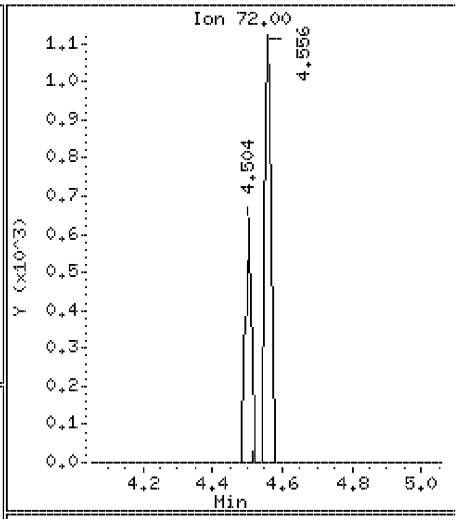
Column phase: J&W DB-5

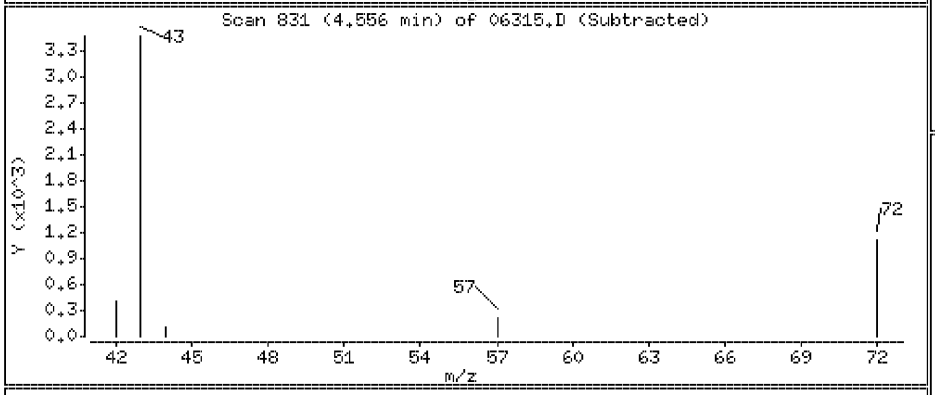
Column diameter: 0.32

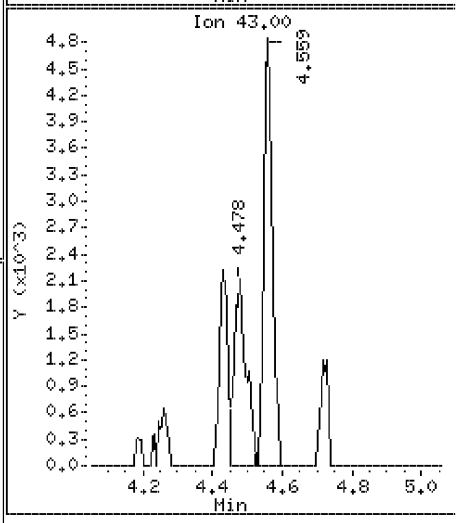
33 Methyl Ethyl Ketone

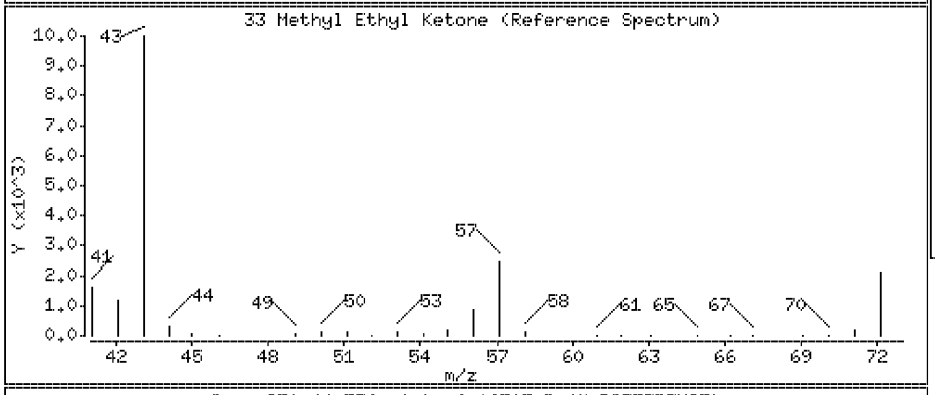
Concentration: 0.500 ppbv

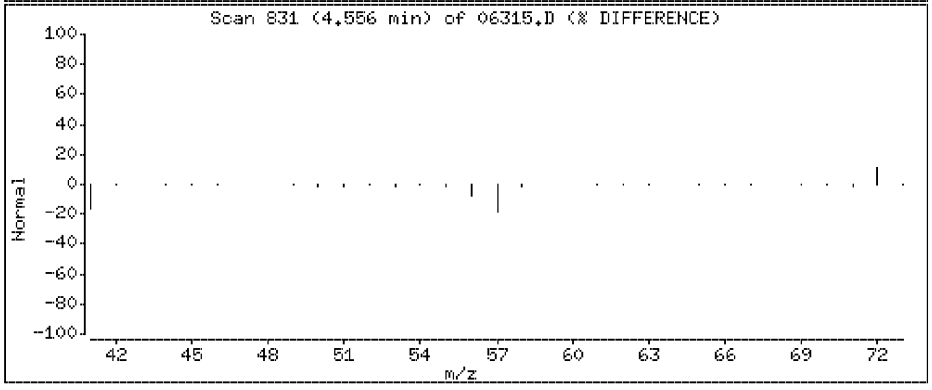












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

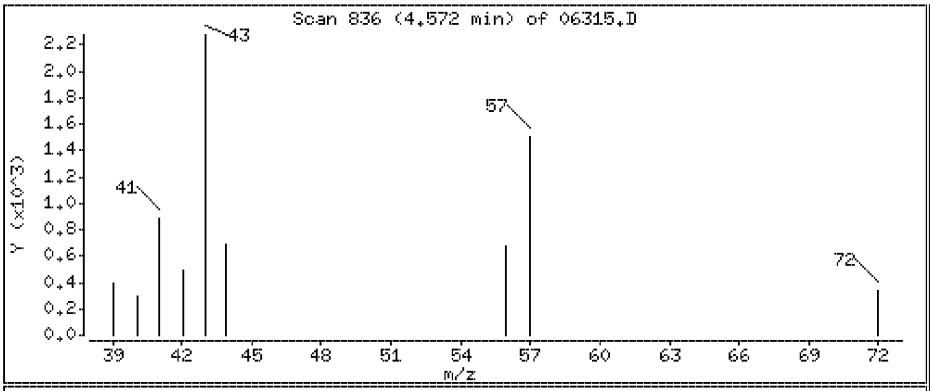
Operator: MJL

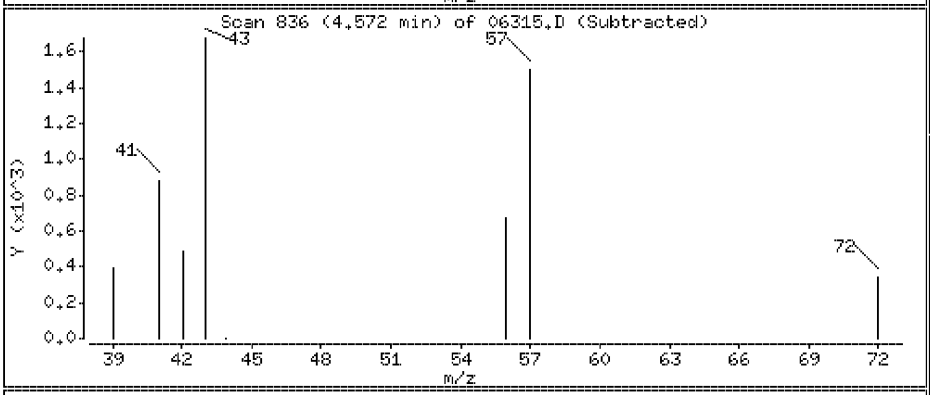
Column phase: J&W DB-5

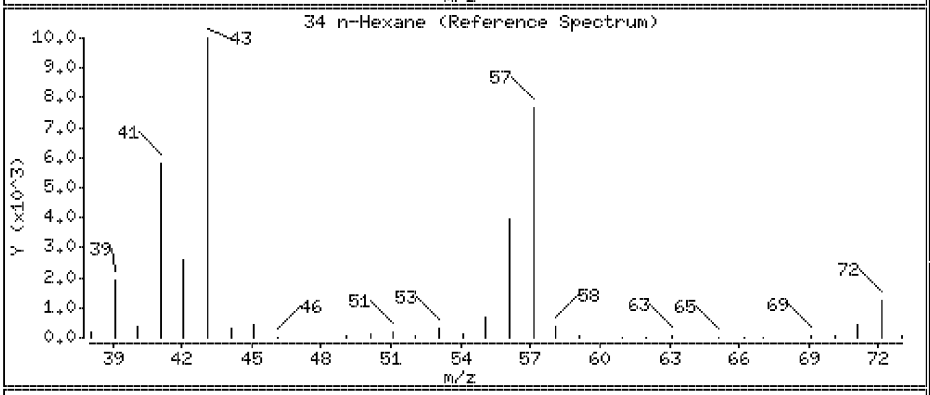
Column diameter: 0.32

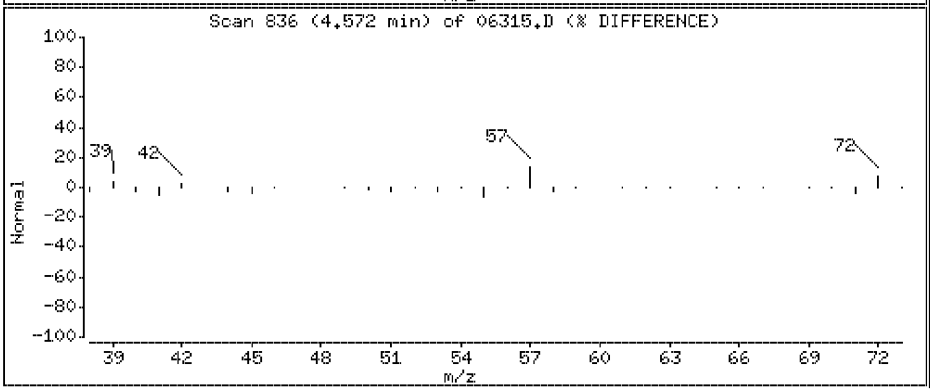
34 n-Hexane

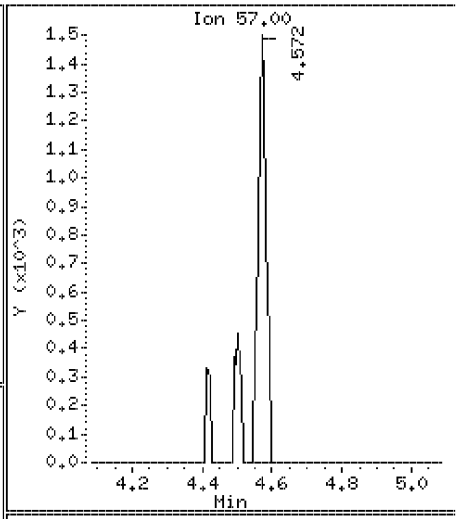
Concentration: 0.191 ppbv

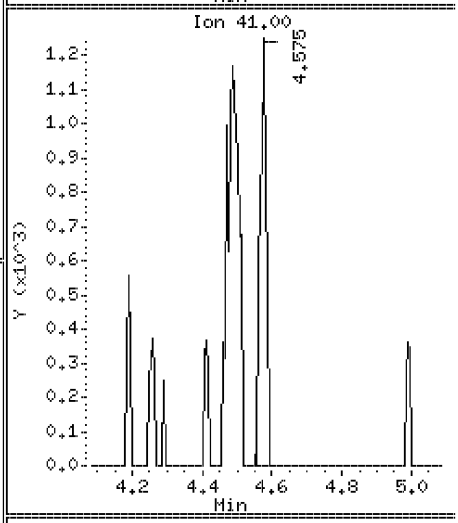


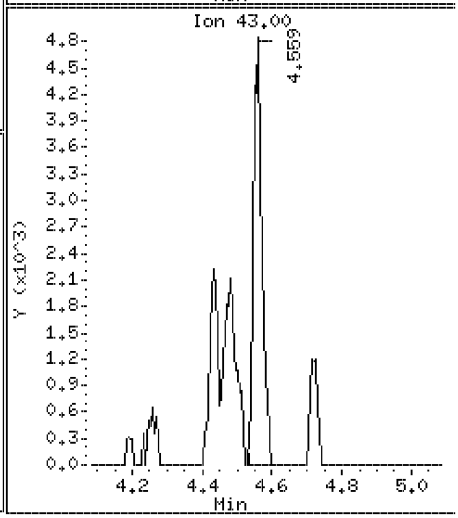












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

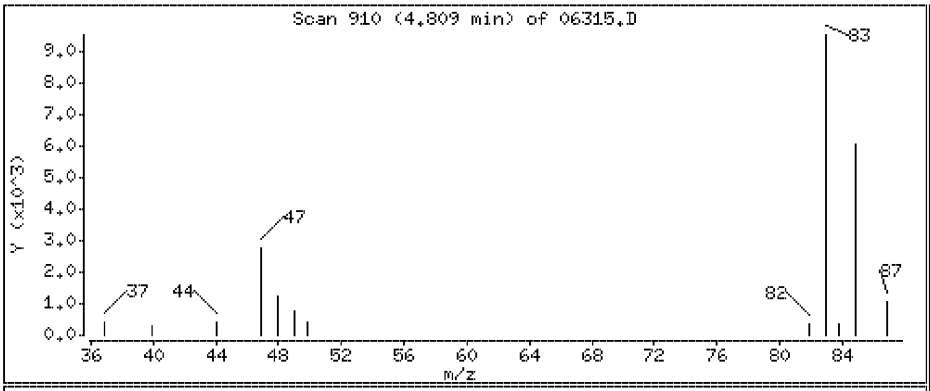
Operator: MJL

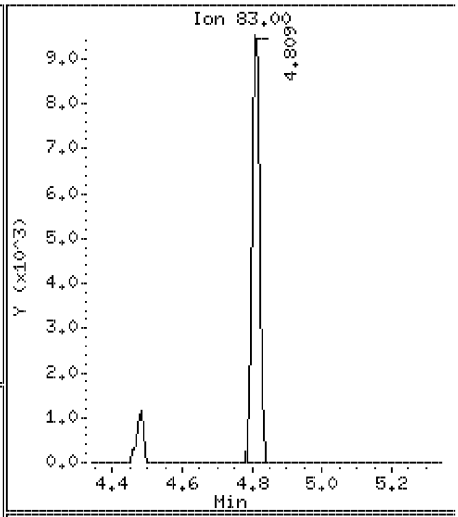
Column phase: J&W DB-5

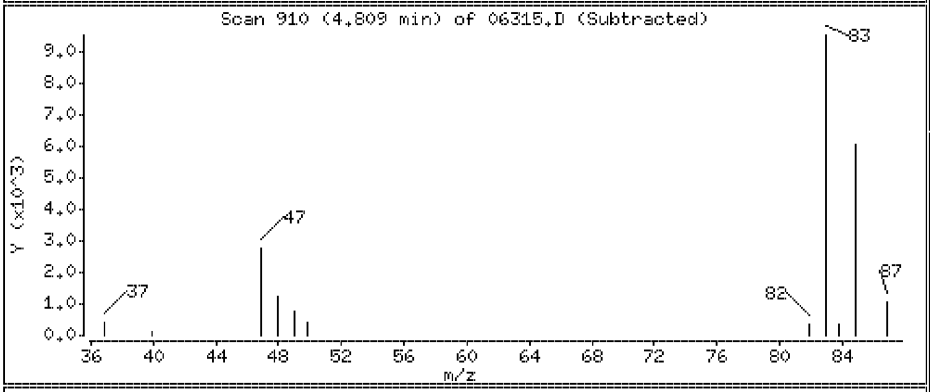
Column diameter: 0.32

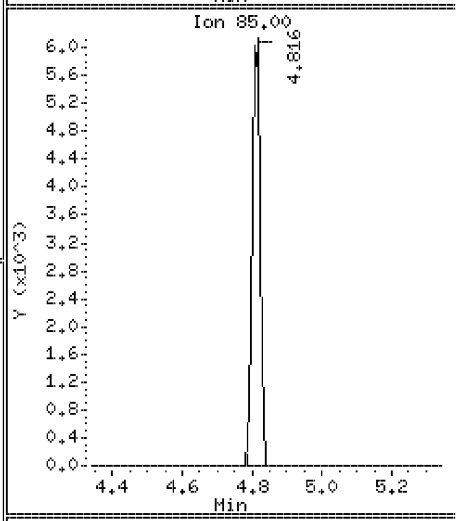
39 Chloroform

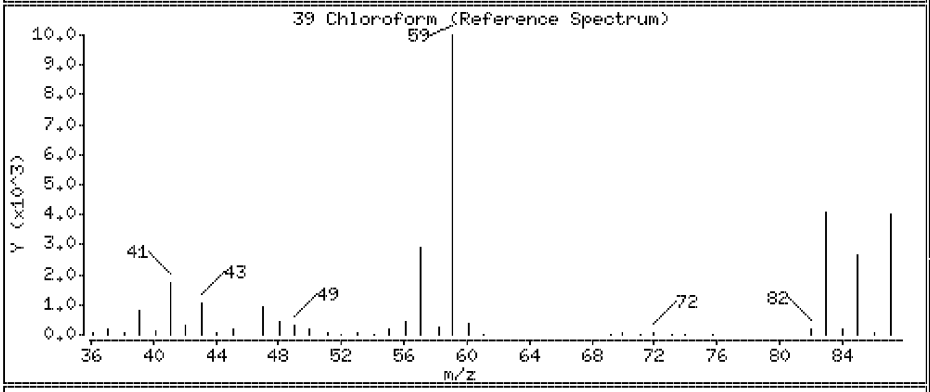
Concentration: 0.955 ppbv

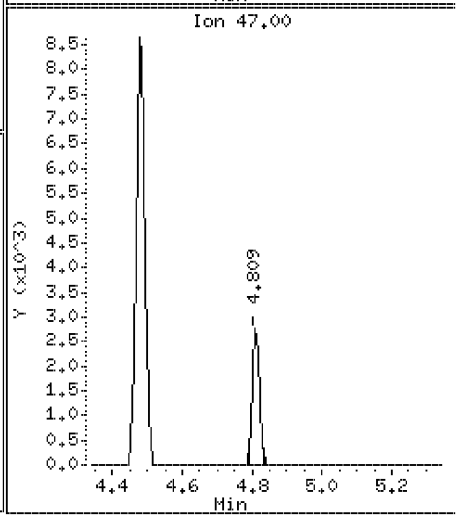


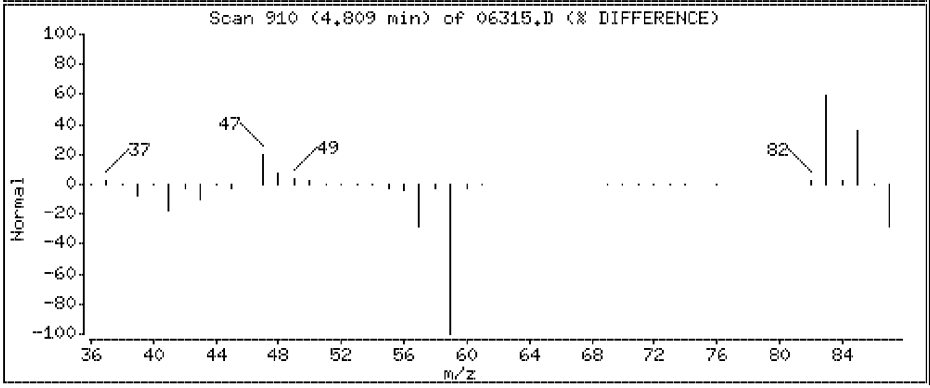












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

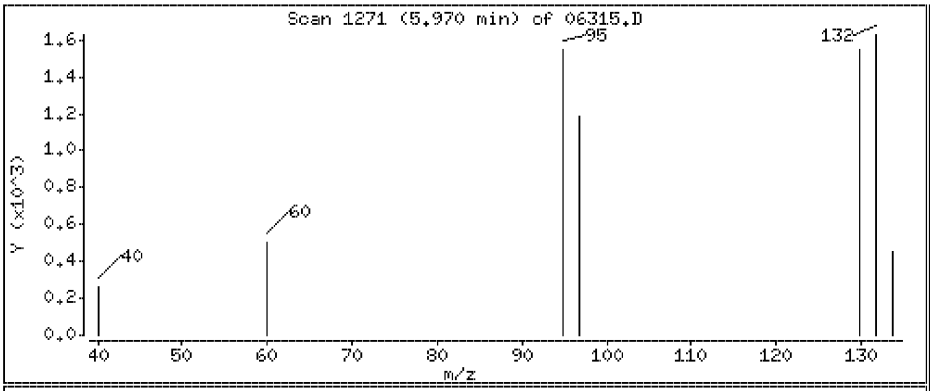
Operator: MJL

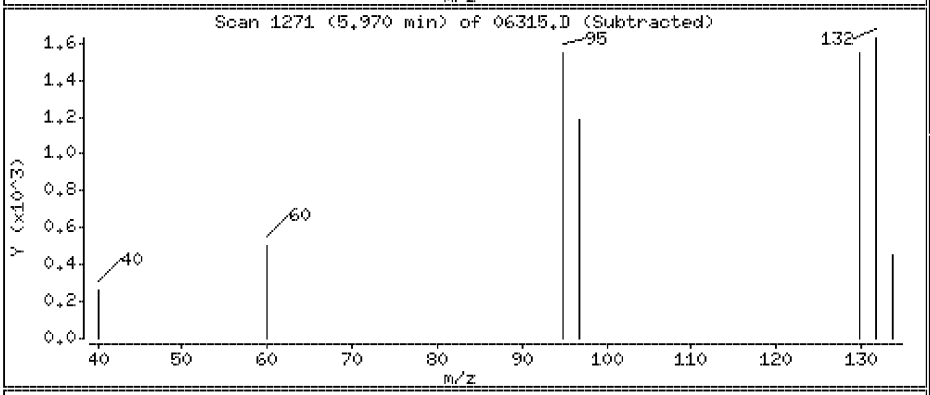
Column phase: J&W DB-5

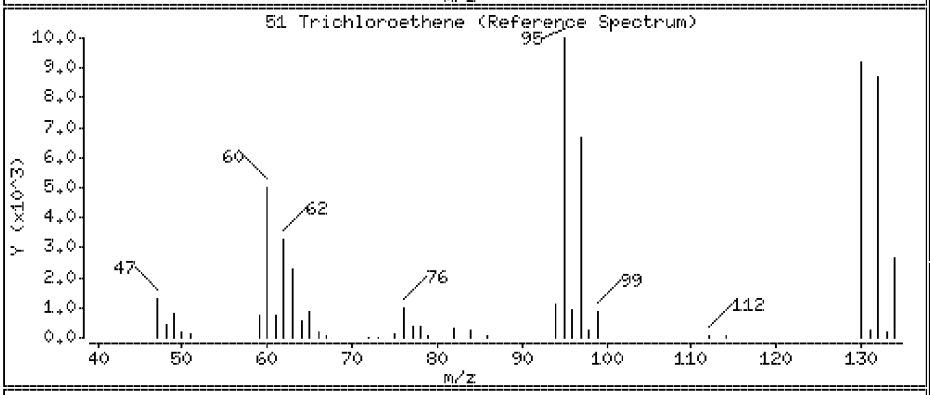
Column diameter: 0.32

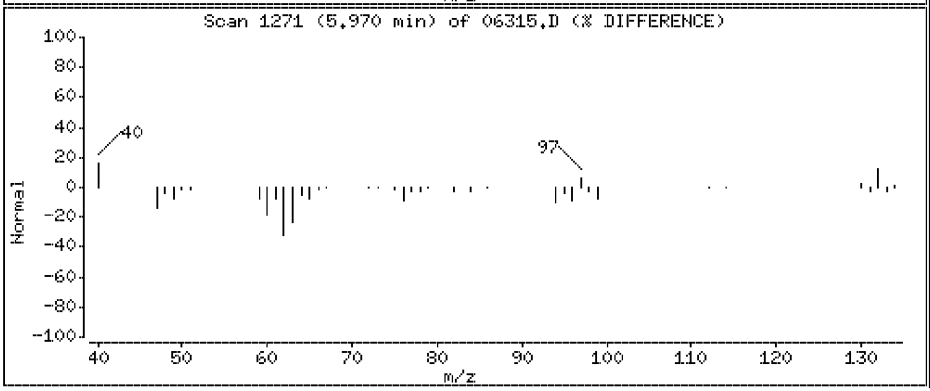
51 Trichloroethene

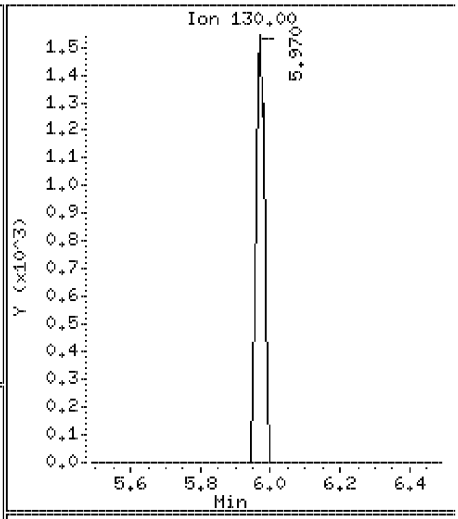
Concentration: 0.193 ppbv

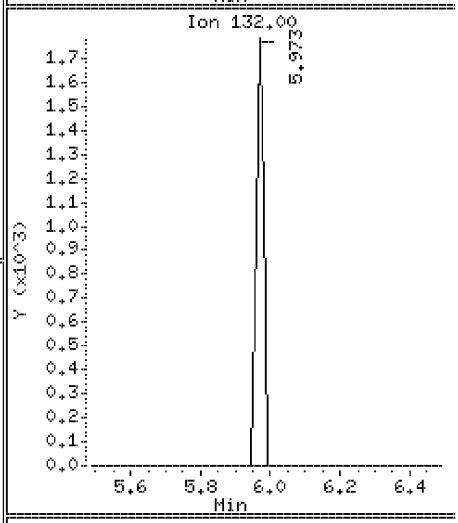


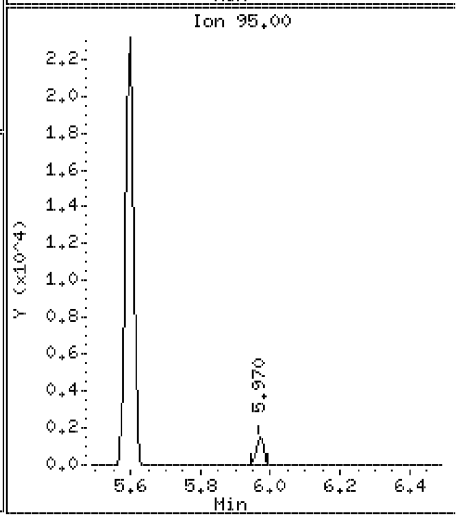












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

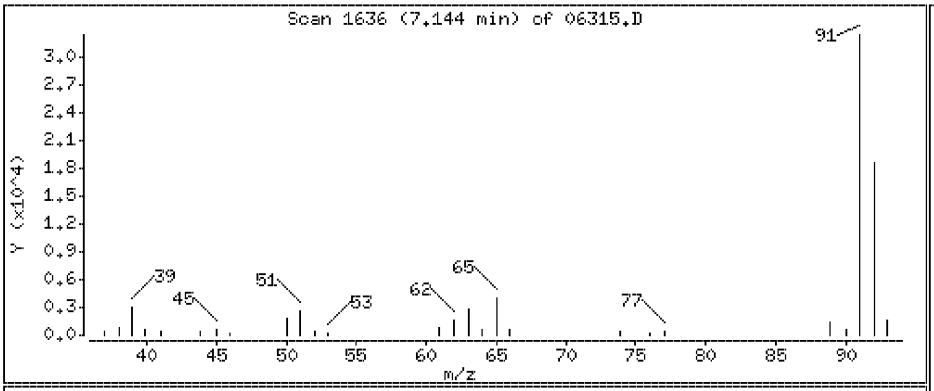
Operator: MJL

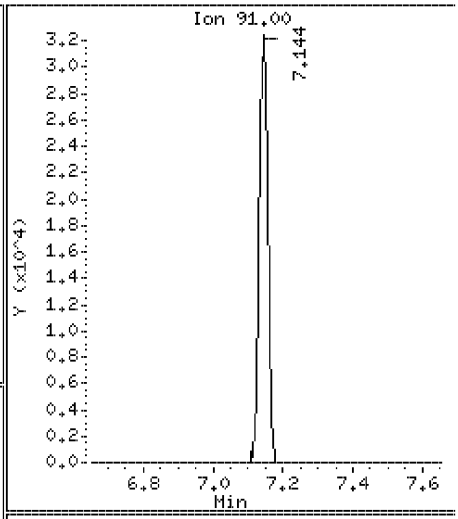
Column phase: J&W DB-5

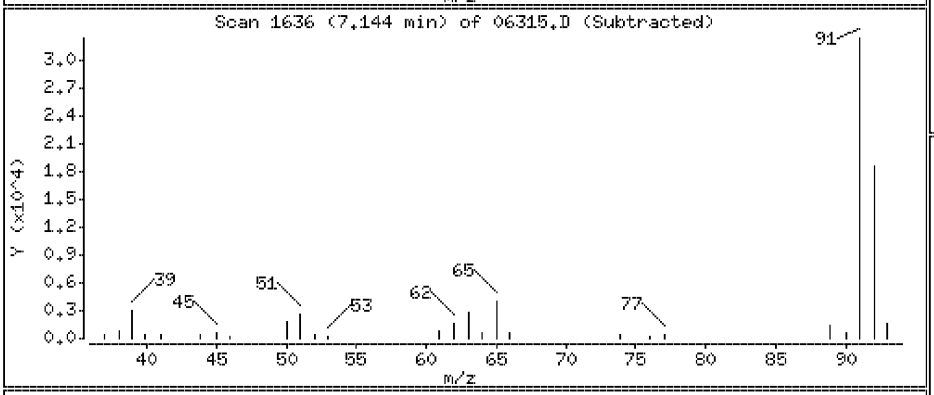
Column diameter: 0.32

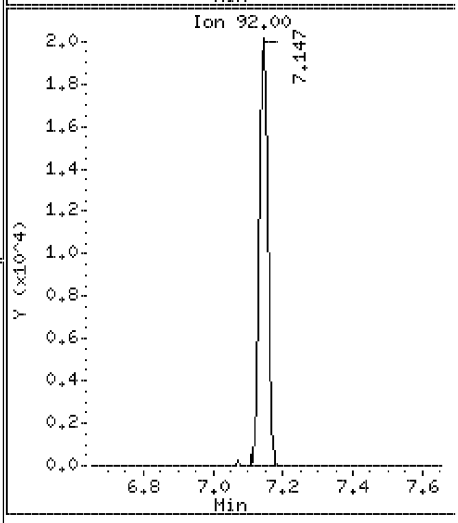
61 Toluene

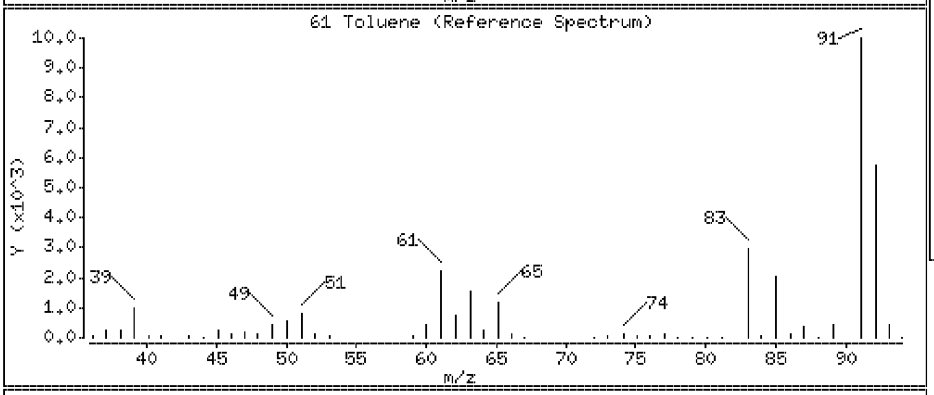
Concentration: 1.76 ppbv

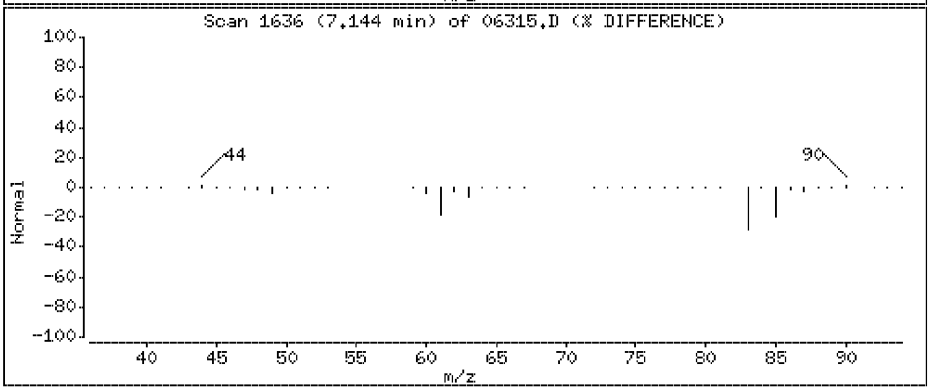












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

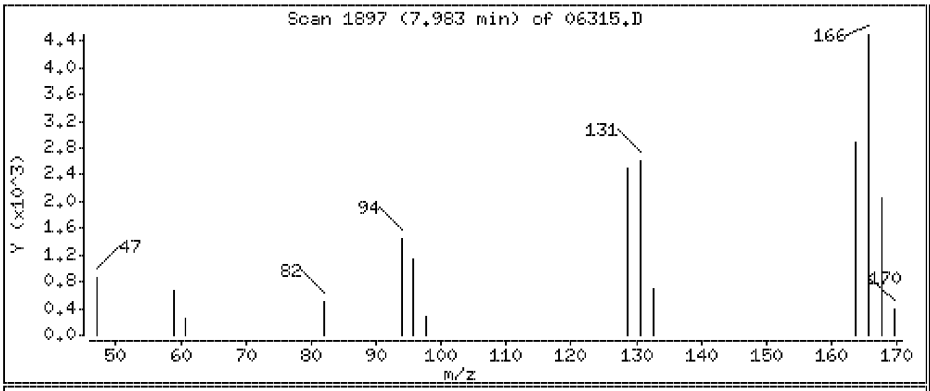
Operator: MJL

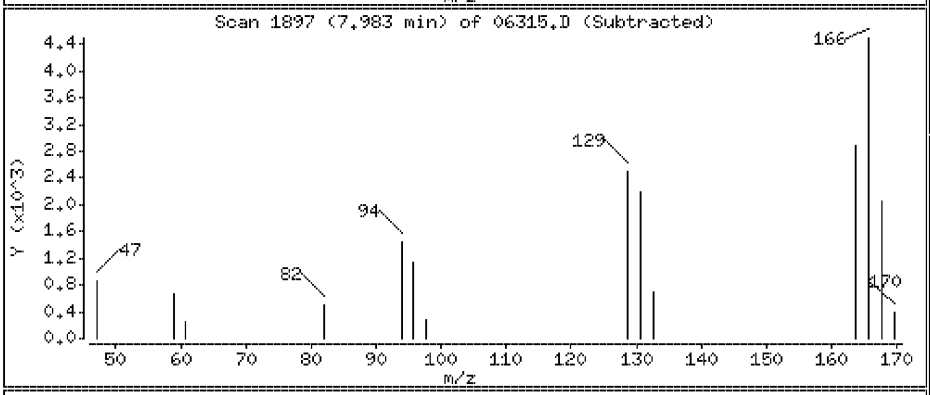
Column phase: J&W DB-5

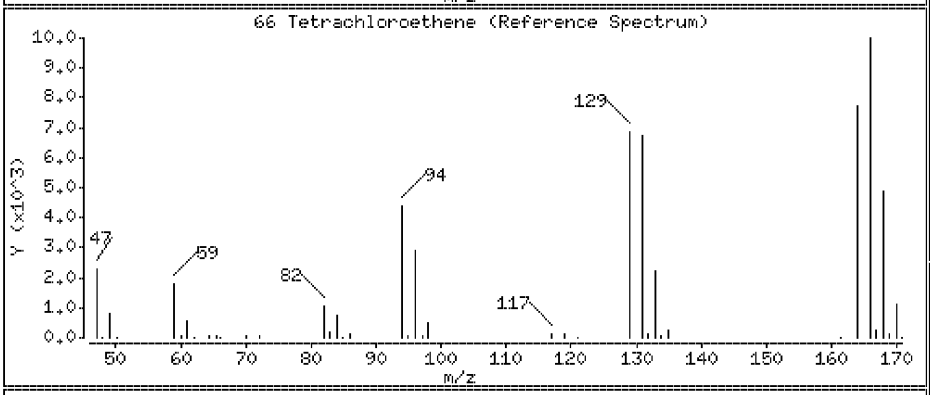
Column diameter: 0.32

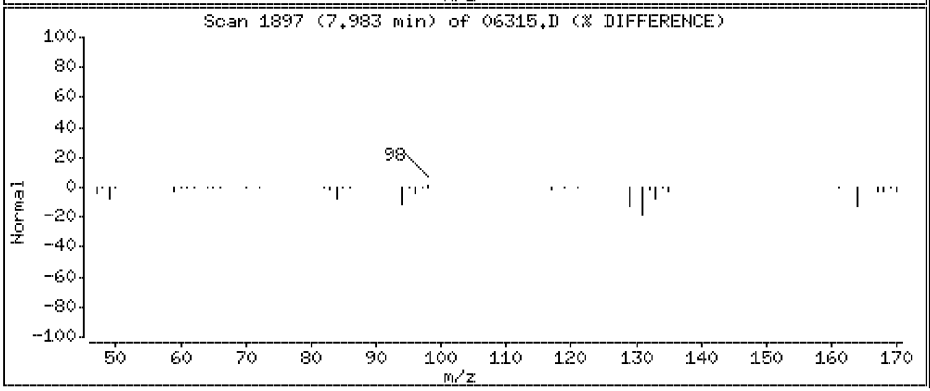
66 Tetrachloroethene

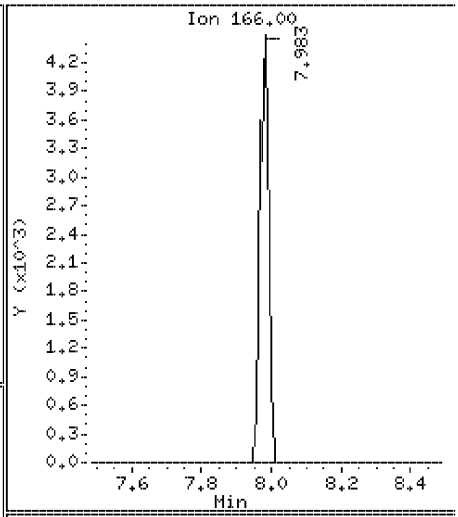
Concentration: 0.436 ppbv

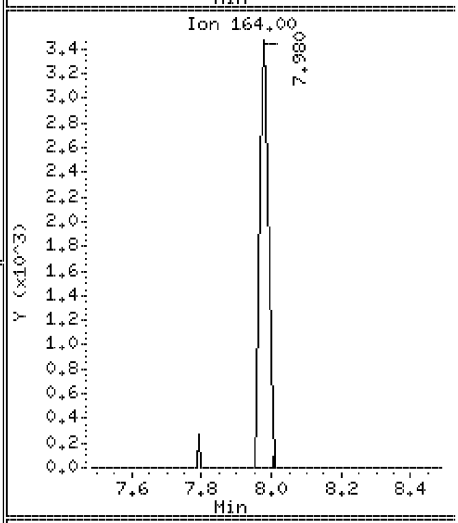


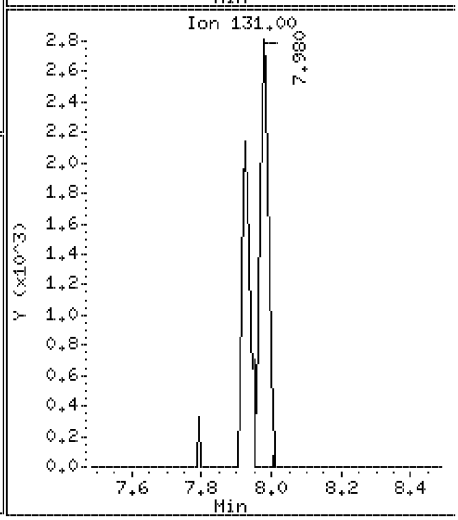












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

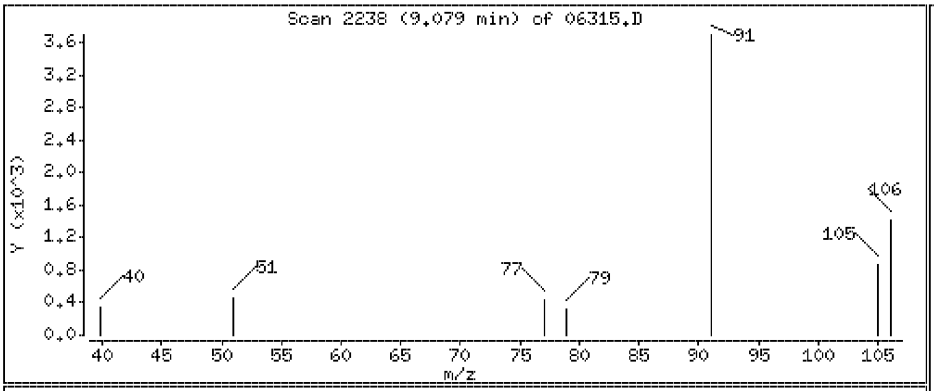
Operator: MJL

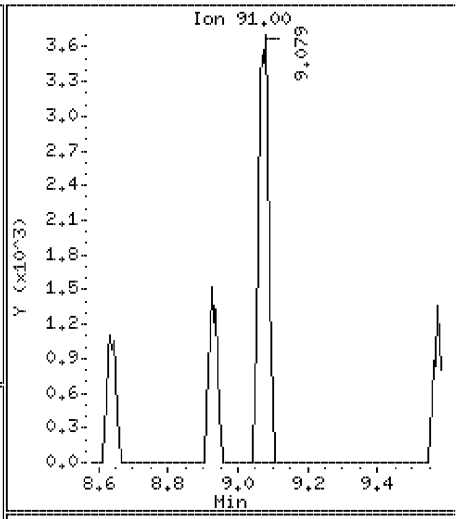
Column phase: J&W DB-5

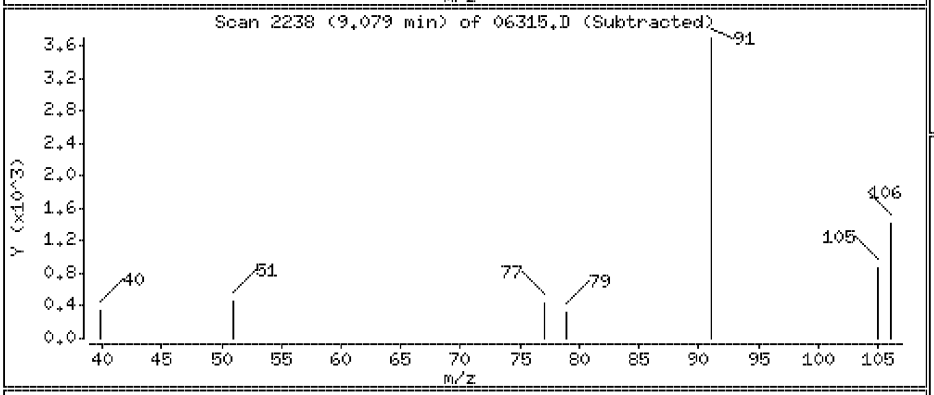
Column diameter: 0.32

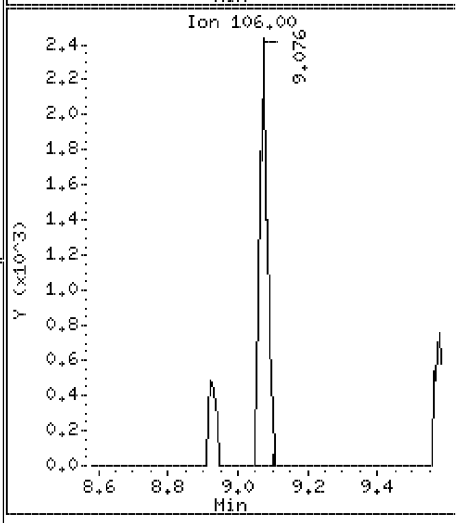
70 m&p-Xylene

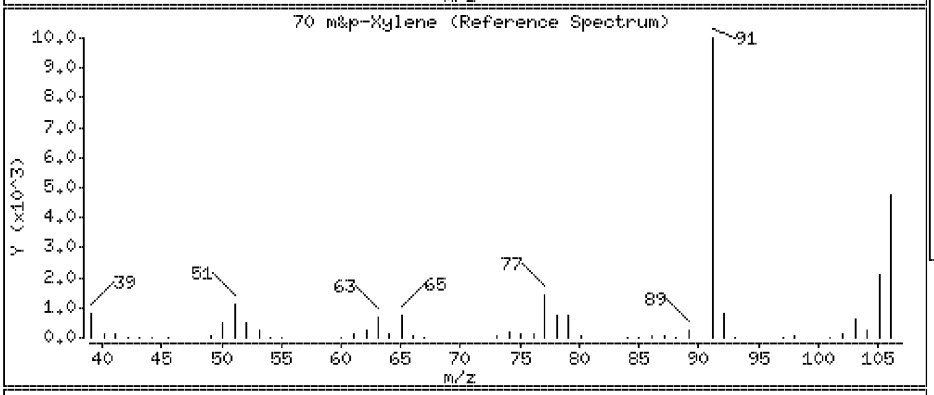
Concentration: 0.255 ppbv

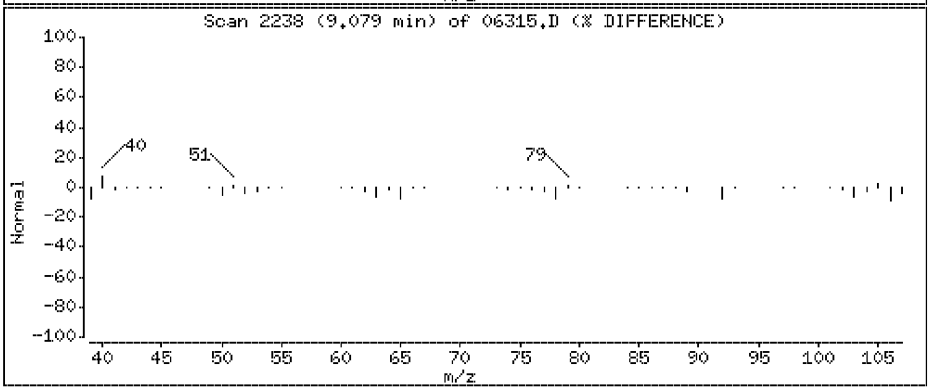












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06315.D

Date : 04-MAR-2017 13:54

Client ID:

Instrument: 10airB.i

Sample Info:

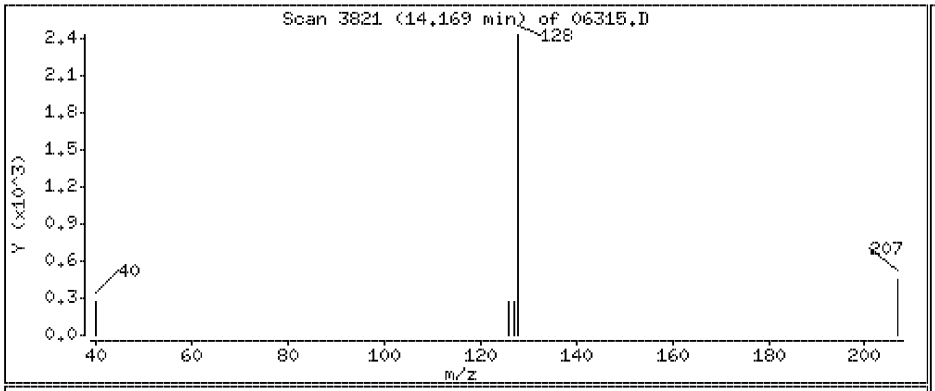
Operator: MJL

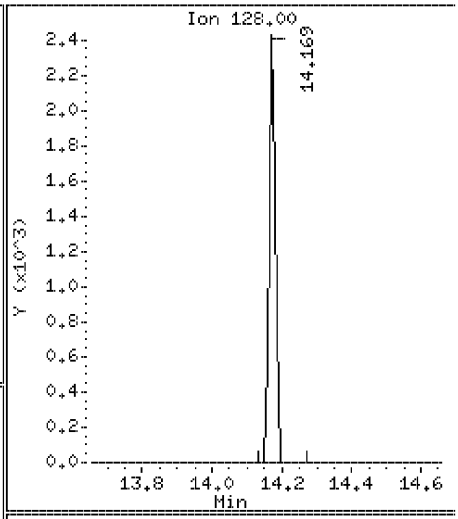
Column phase: J&W DB-5

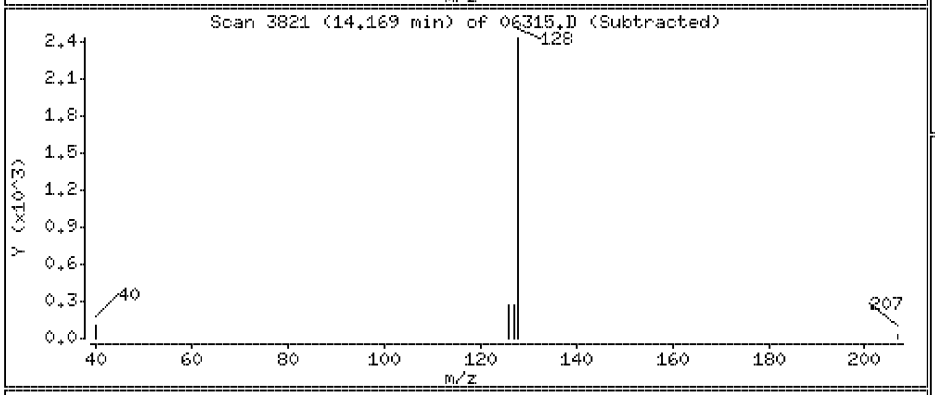
Column diameter: 0.32

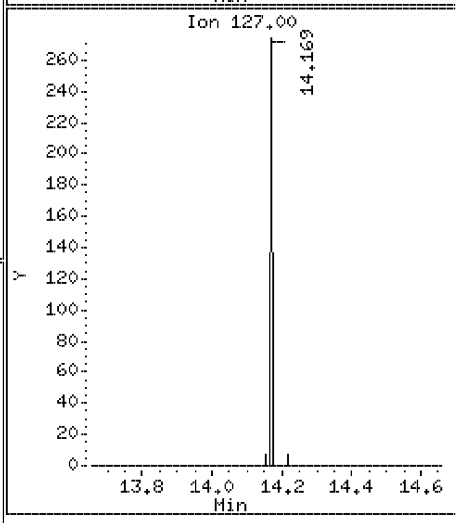
94 Naphthalene

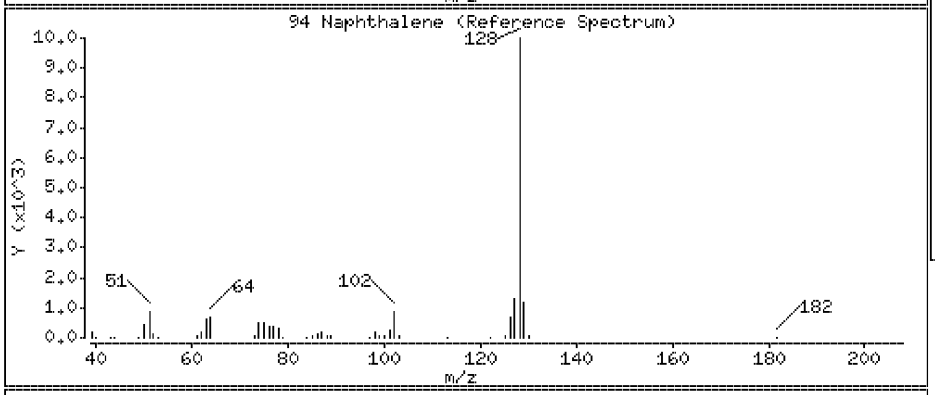
Concentration: 0.768 ppbv

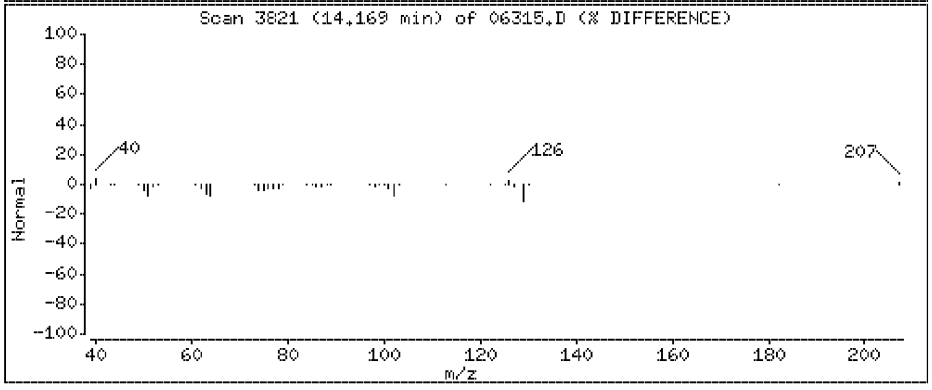






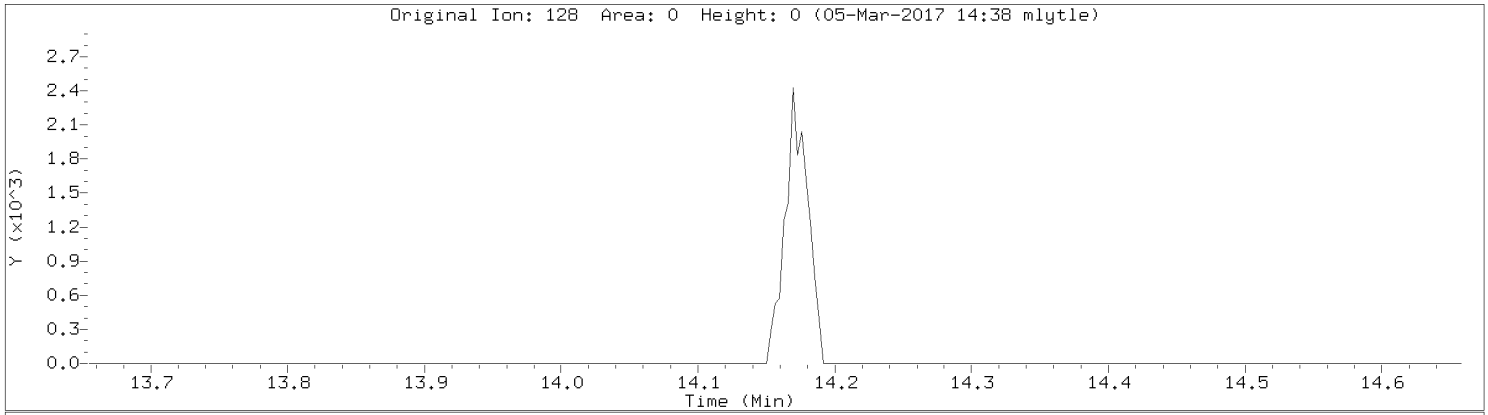


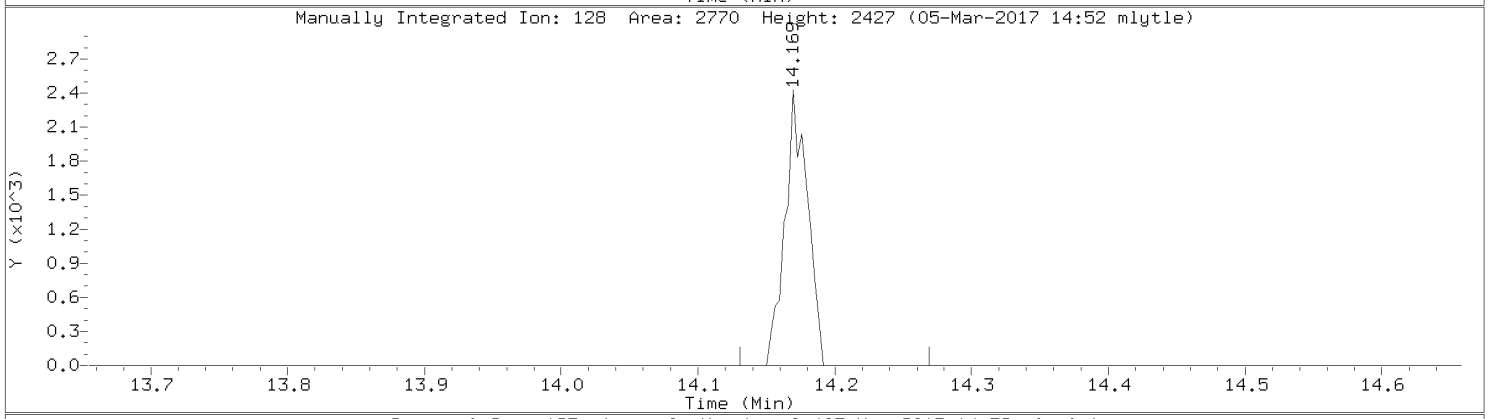


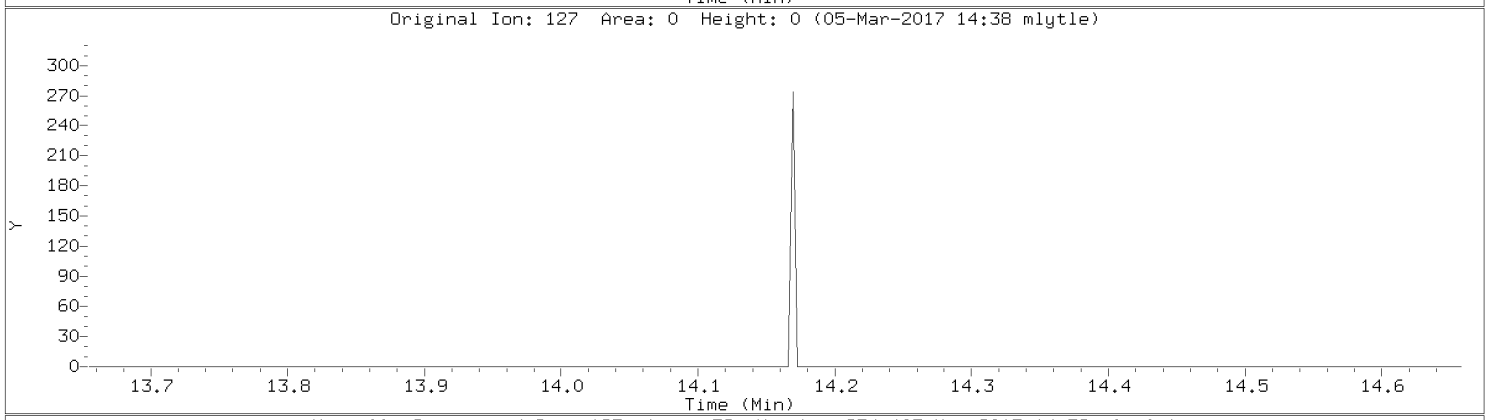


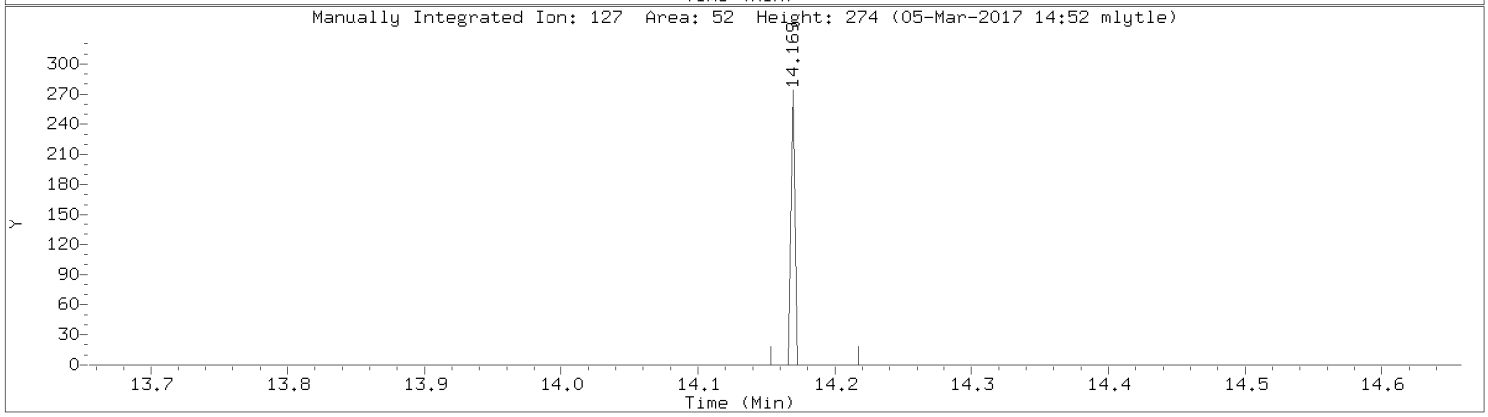
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06315.D
Injection Date: 04-MAR-2017 13:54
Instrument: 10airB.i
Lab Sample ID: 10379929010

Compound: Naphthalene
CAS Number: 91-20-3









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8_5_20170221 **Lab ID: 10379929011** Collected: 02/21/17 14:05 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**23.7**	ug/m3	4.1	1.4	1.68		03/04/17 14:53	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/04/17 14:53	107-05-1	
Benzene	**0.48J**	ug/m3	0.55	0.20	1.68		03/04/17 14:53	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/04/17 14:53	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/04/17 14:53	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/04/17 14:53	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/04/17 14:53	106-99-0	
2-Butanone (MEK)	**6.1**	ug/m3	5.0	0.38	1.68		03/04/17 14:53	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/04/17 14:53	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/04/17 14:53	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/04/17 14:53	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/04/17 14:53	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/04/17 14:53	75-00-3	
Chloroform	**<0.32**	ug/m3	0.83	0.32	1.68		03/04/17 14:53	67-66-3	
Chloromethane	**0.89**	ug/m3	0.71	0.18	1.68		03/04/17 14:53	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/04/17 14:53	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/04/17 14:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/04/17 14:53	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/04/17 14:53	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/04/17 14:53	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/04/17 14:53	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/04/17 14:53	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/04/17 14:53	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.7	0.81	1.68		03/04/17 14:53	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/04/17 14:53	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/04/17 14:53	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/04/17 14:53	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/04/17 14:53	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/04/17 14:53	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/04/17 14:53	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/04/17 14:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/04/17 14:53	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/04/17 14:53	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/04/17 14:53	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/04/17 14:53	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/04/17 14:53	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/04/17 14:53	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/04/17 14:53	87-68-3	
n-Hexane	**<0.60**	ug/m3	1.2	0.60	1.68		03/04/17 14:53	110-54-3	
2-Hexanone	**1.6J**	ug/m3	7.0	0.69	1.68		03/04/17 14:53	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/04/17 14:53	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/04/17 14:53	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/04/17 14:53	108-87-2	
Methylene Chloride	**2.3J**	ug/m3	5.9	0.91	1.68		03/04/17 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/04/17 14:53	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/04/17 14:53	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D
Report Date: 05-Mar-2017 14:56

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06317.D
Lab Smp Id: 10379929011
Inj Date : 04-MAR-2017 14:53
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 17
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.018	3.018	(0.539)	145711	19.9434	33.5(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.060	(0.546)	12410	0.27398	0.460	
6	Chloromethane	50	3.150	3.156	(0.563)	3604	0.25170	0.423	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.539	3.545	(0.632)	60727	13.2617	22.3	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.581	3.600	(0.639)	3136	0.11568	0.194(Q)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.661	3.674	(0.654)	4492	0.13148	0.221(M)	
17	Acrolein	56	3.668	3.684	(0.655)	1953	0.61708	1.04	
18	Acetone	43	3.713	3.722	(0.663)	115351	5.83368	9.80	
19	Isopropyl Alcohol	45	3.764	3.767	(0.672)	27348	1.35614	2.28	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D
Report Date: 05-Mar-2017 14:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.995	4.005	(0.714)	5489	0.39330	0.661	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.430	4.391	(0.791)	9893	0.47684	0.801	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.800)	393749	9.93084	9.93	
	33 Methyl Ethyl Ketone	72	4.552	4.555	(0.813)	6717	1.20466	2.02(Q)	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.446	5.468	(0.972)	3562	0.08863	0.149	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1246226	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1058603	9.49074	9.49	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.140	7.153	(1.275)	7440	0.14782	0.248	
	62 Methyl Butyl Ketone	43	7.378	7.372	(0.854)	5843	0.22785	0.383	
	63 n-Octane	43	7.568	7.584	(0.876)	10095	0.36350	0.611(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	811933	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.069	9.082	(1.050)	5872	0.12528	0.210	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.507	9.507	(1.100)	5674	0.21422	0.360	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D
Report Date: 05-Mar-2017 14:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	11.371	11.378	(2.031)	4476	0.37426	0.629(QM)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	467073	10.4428	10.4	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	19969	0.92896	1.56	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D
Report Date: 05-Mar-2017 14:56

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06317.D
Lab Smp Id: 10379929011
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

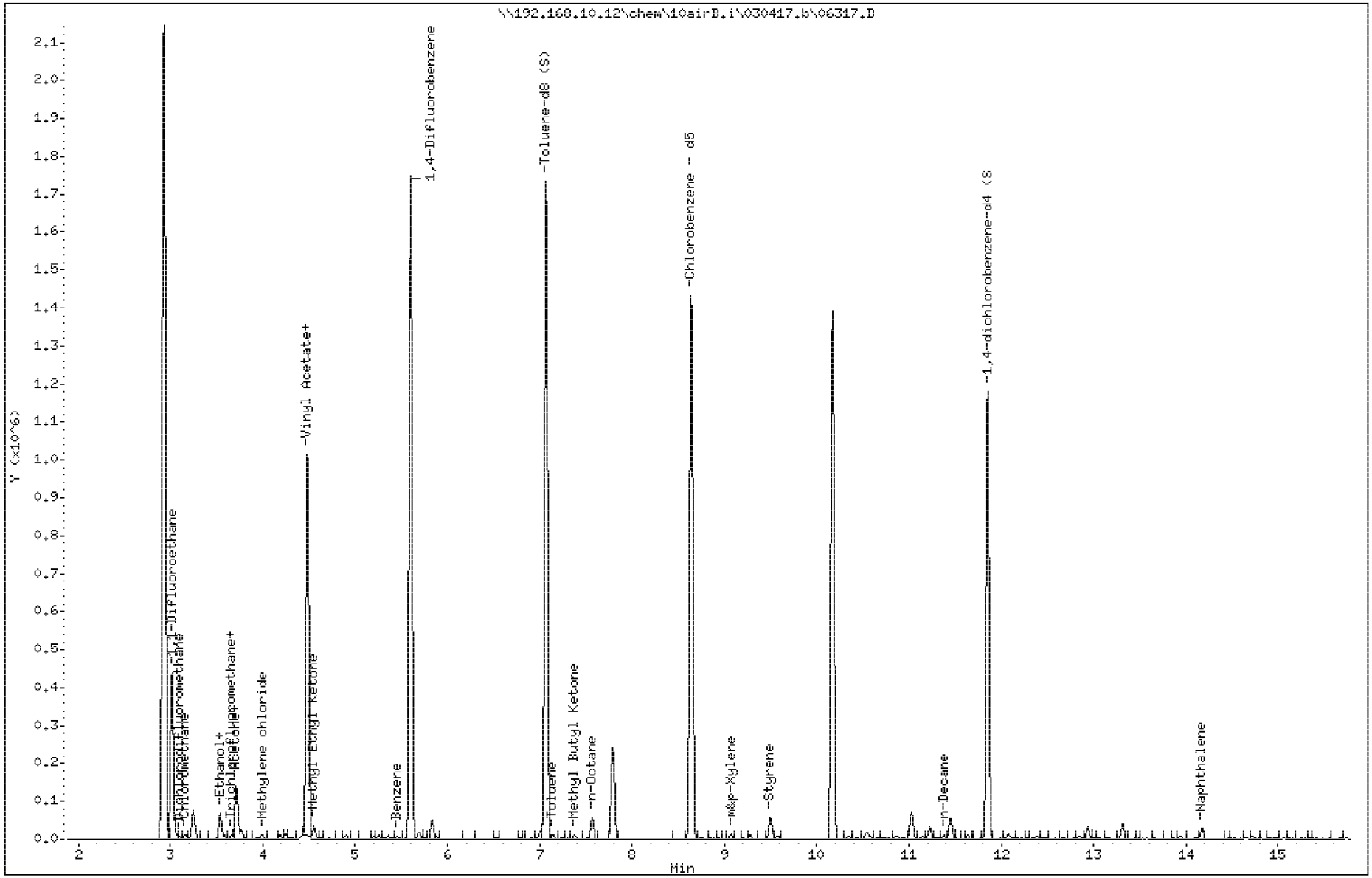
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1246226	-11.87
67 Chlorobenzene - d	951026	570616	1331436	811933	-14.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D
Date : 04-MAR-2017 14:53
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

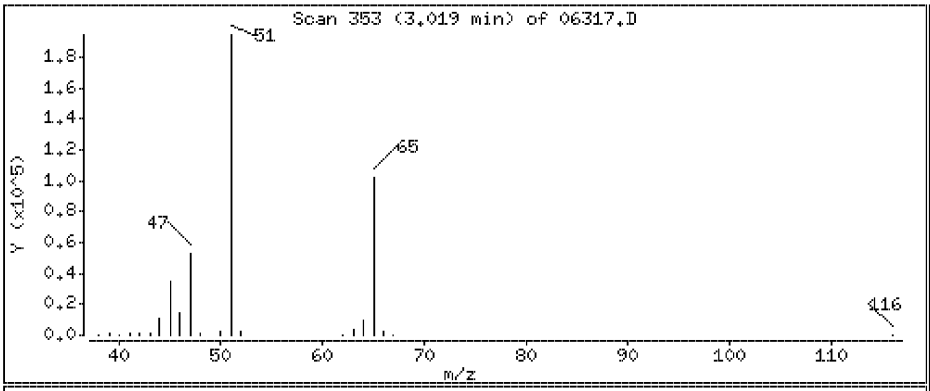
Operator: MJL

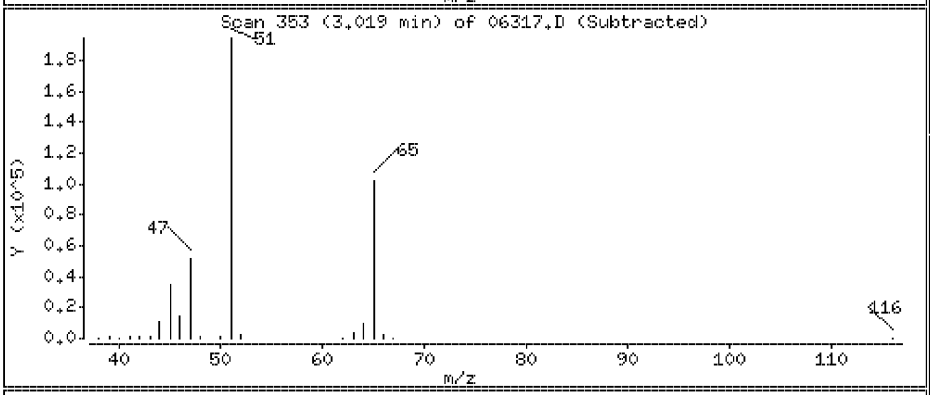
Column phase: J&W DB-5

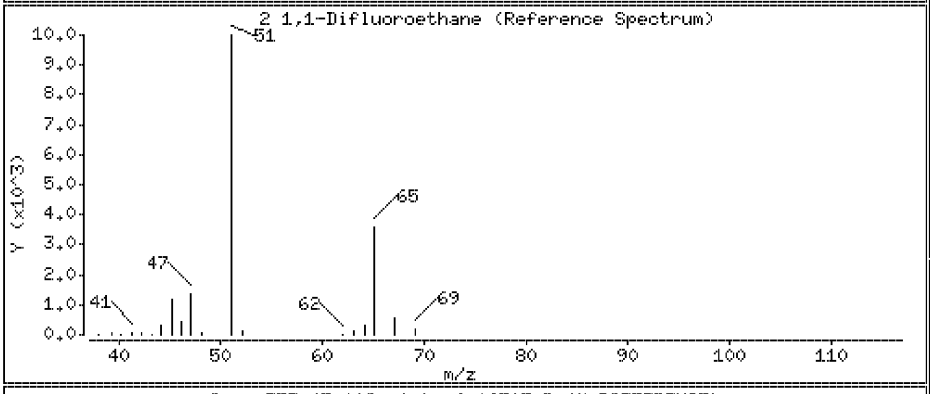
Column diameter: 0.32

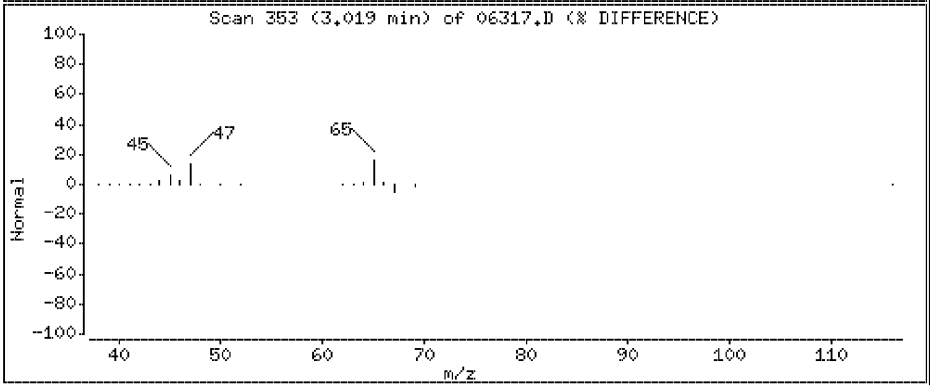
2 1,1-Difluoroethane

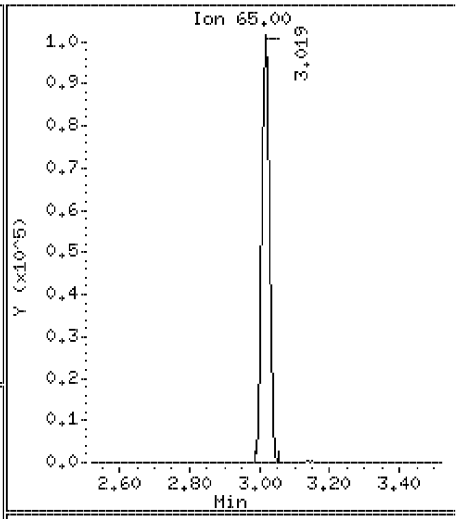
Concentration: 33.5 ppbv

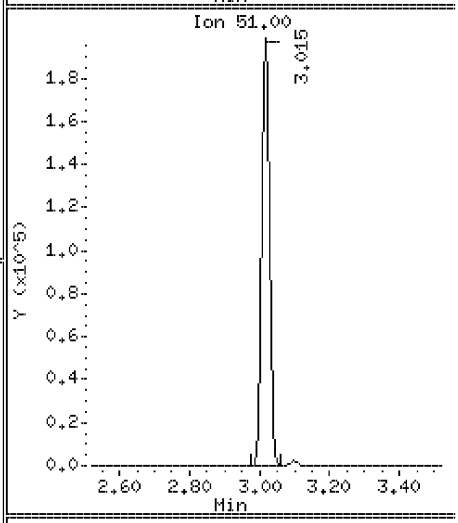


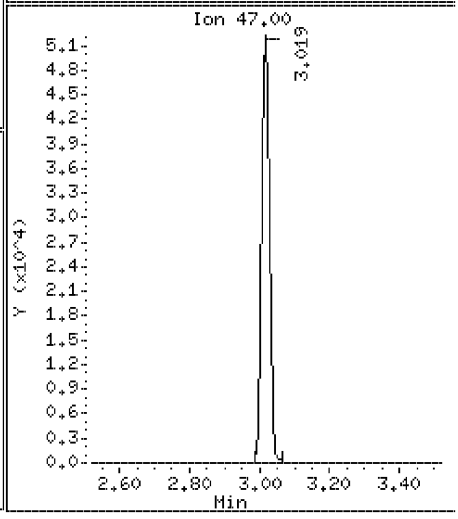












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

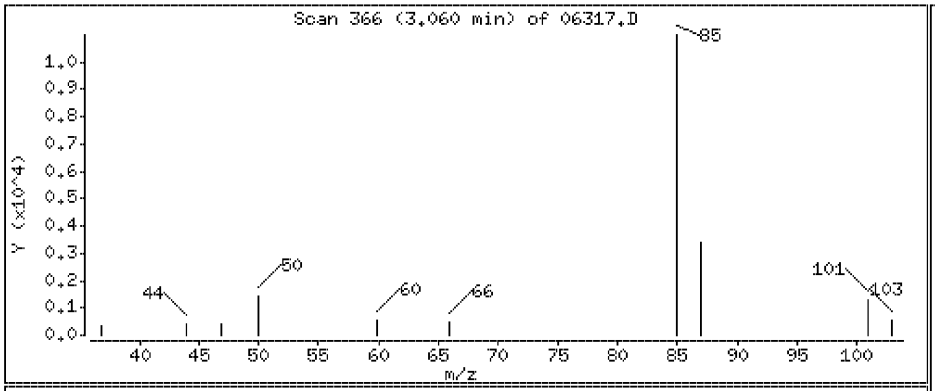
Operator: MJL

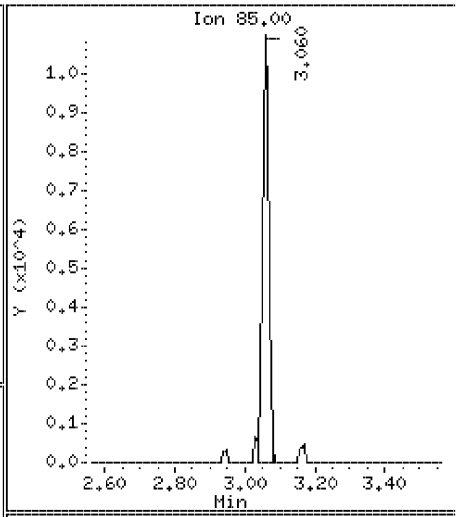
Column phase: J&W DB-5

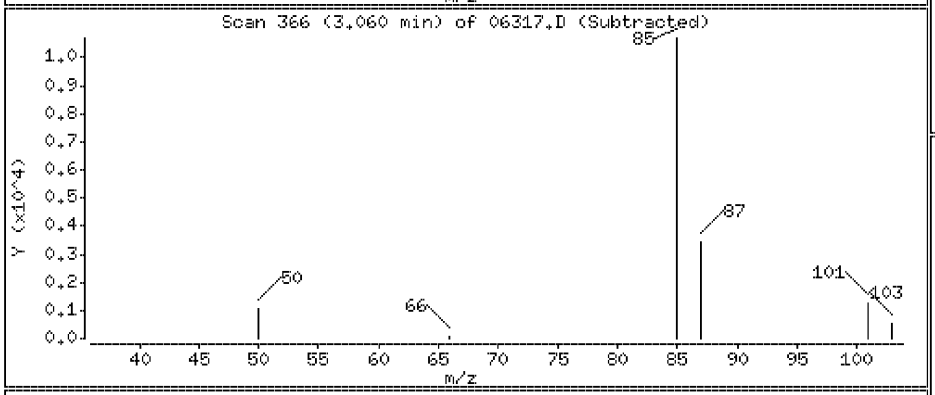
Column diameter: 0.32

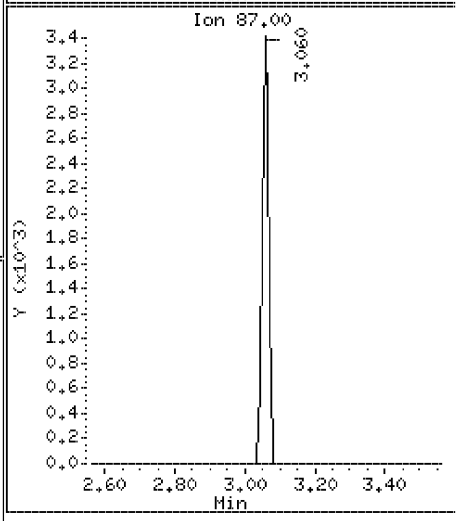
5 Dichlorodifluoromethane

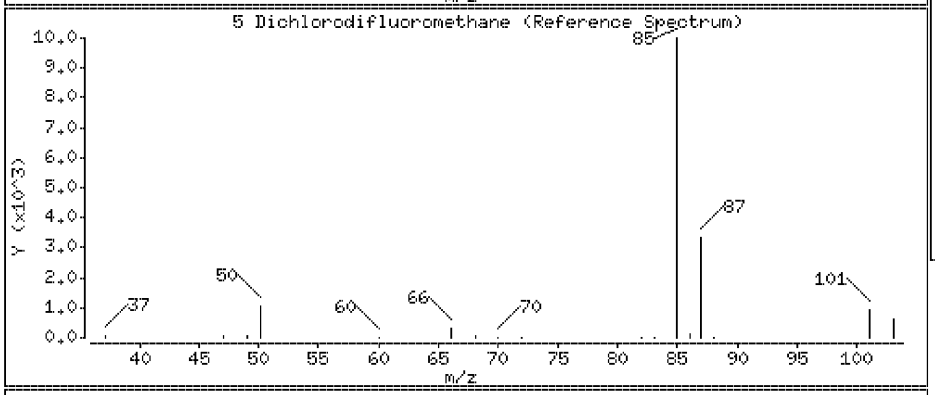
Concentration: 0.460 ppbv

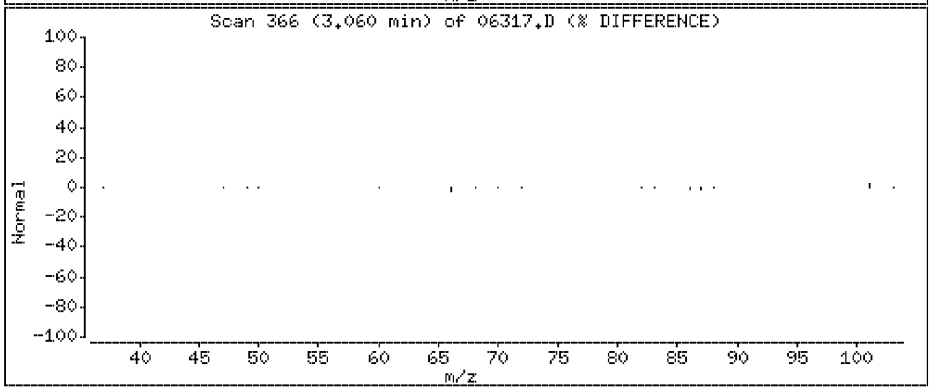












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

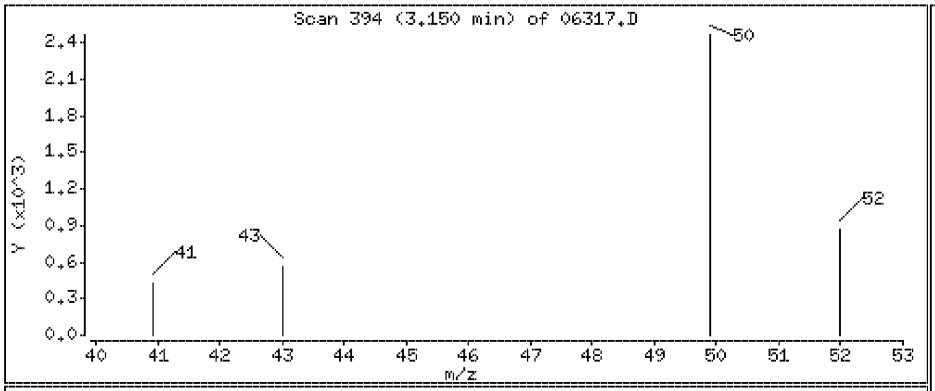
Operator: MJL

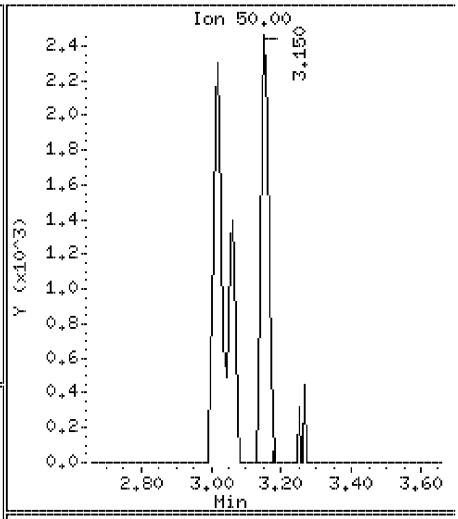
Column phase: J&W DB-5

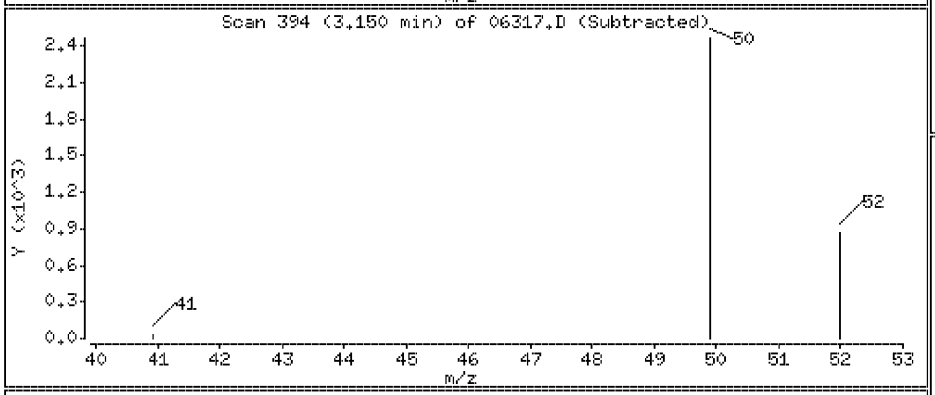
Column diameter: 0.32

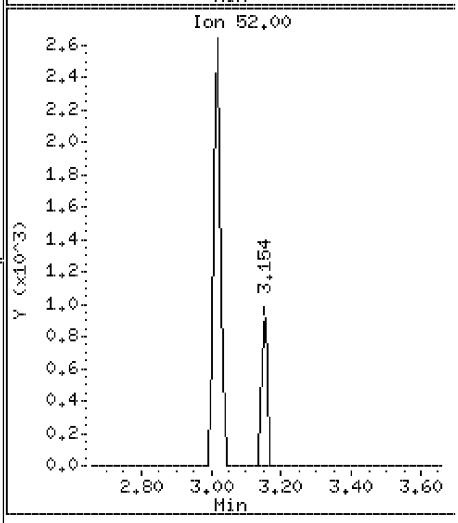
6 Chloromethane

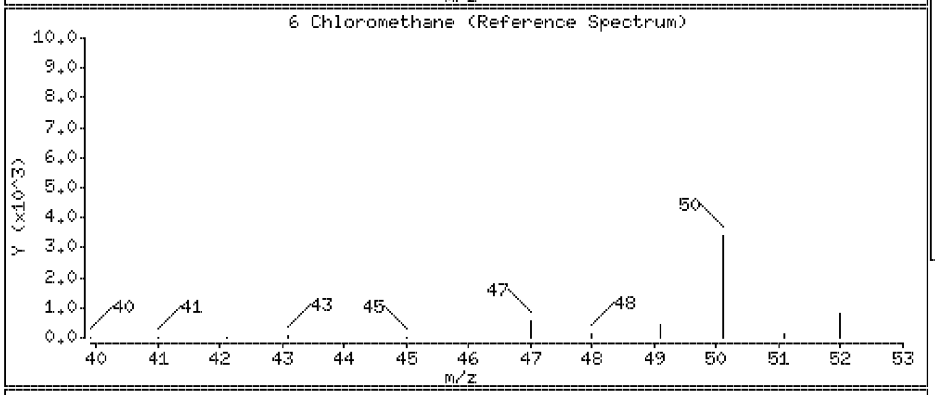
Concentration: 0.423 ppbv

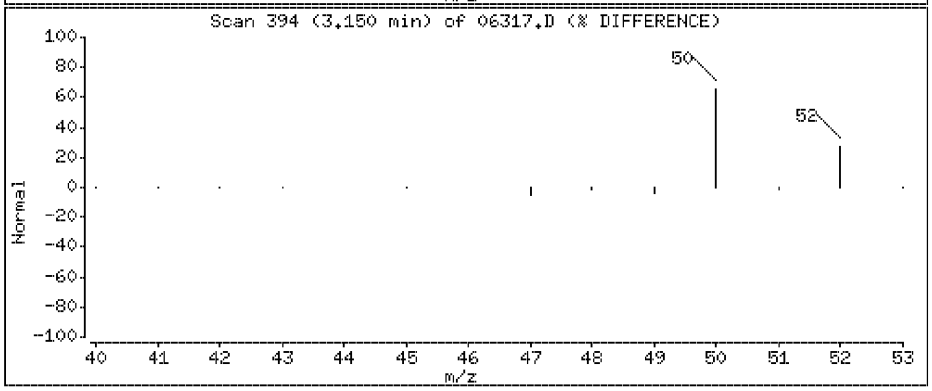












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

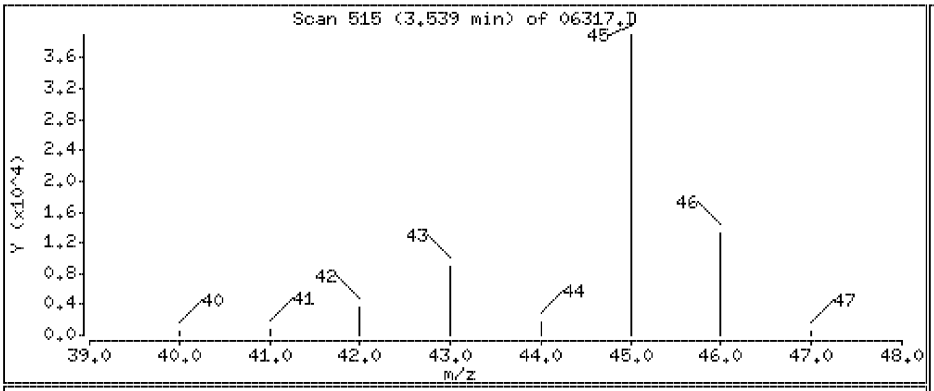
Operator: MJL

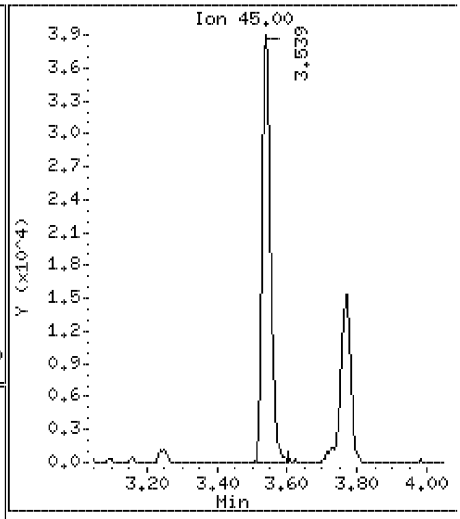
Column phase: J&W DB-5

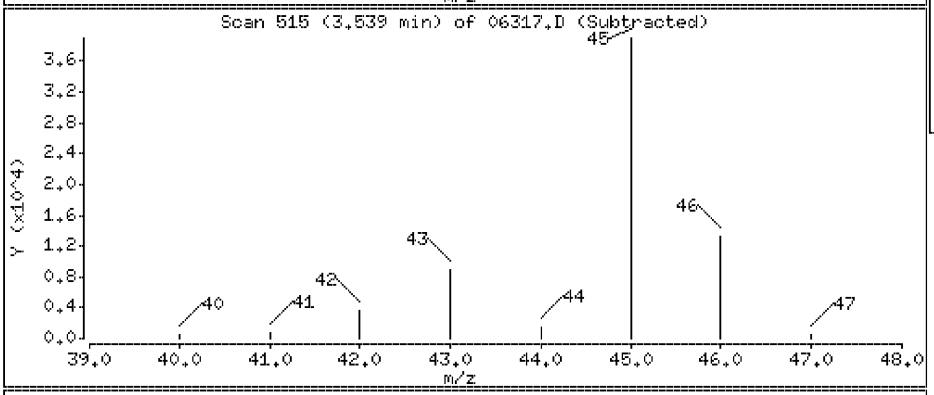
Column diameter: 0.32

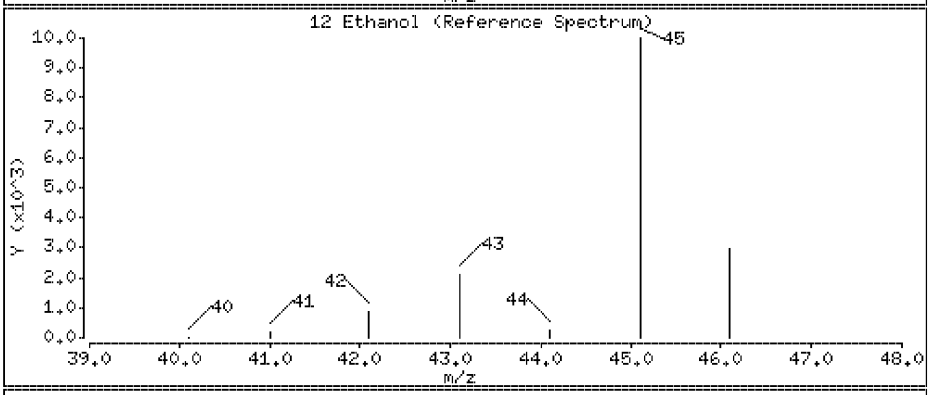
12 Ethanol

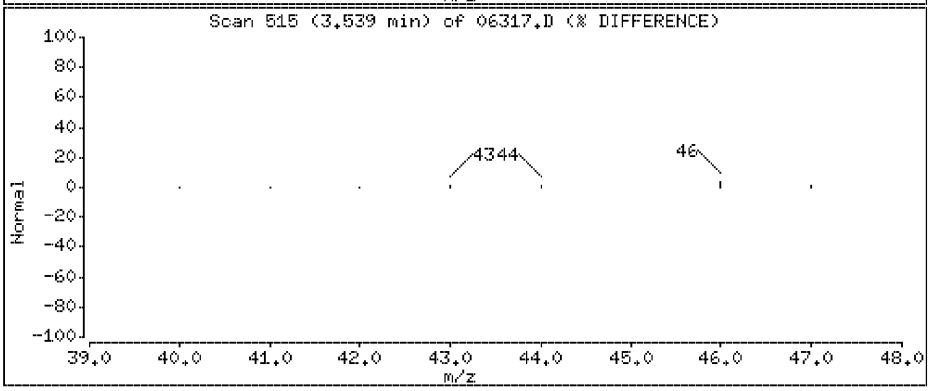
Concentration: 22.3 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

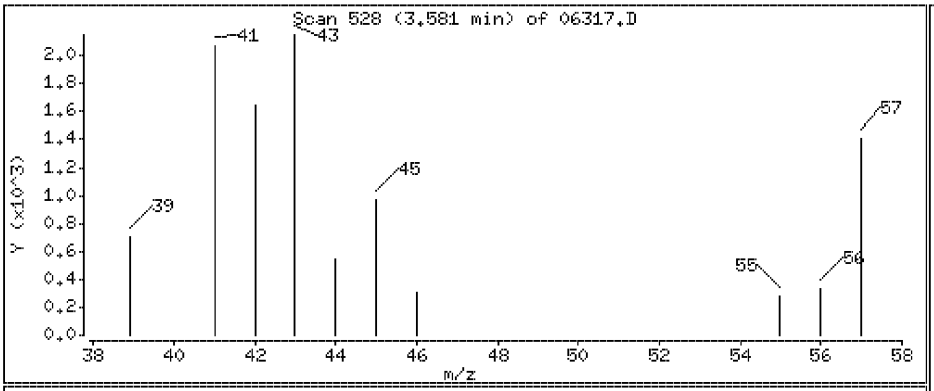
Operator: MJL

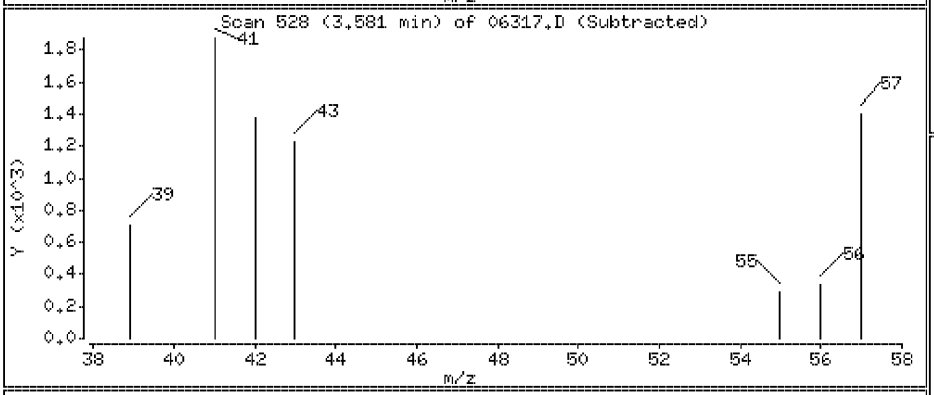
Column phase: J&W DB-5

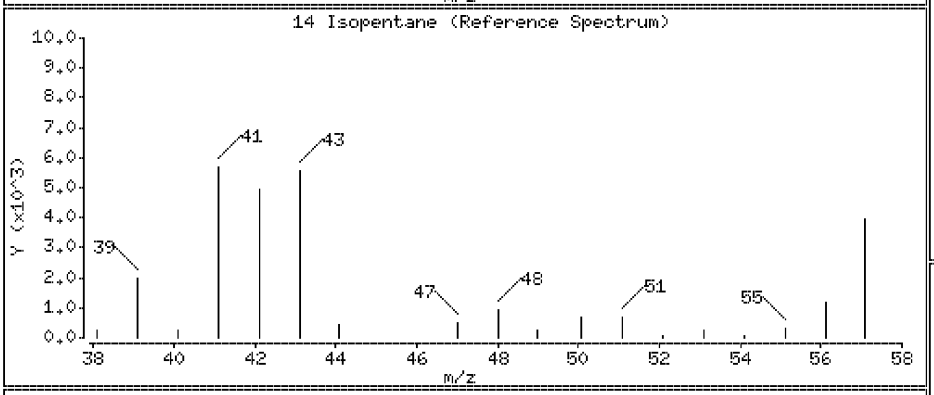
Column diameter: 0.32

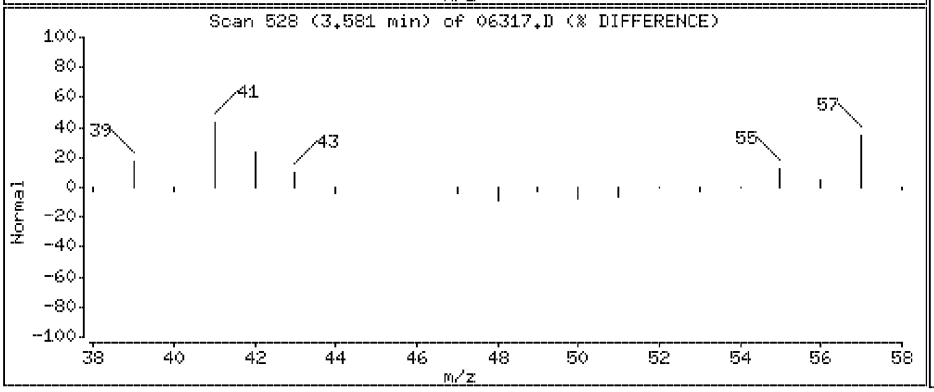
14 Isopentane

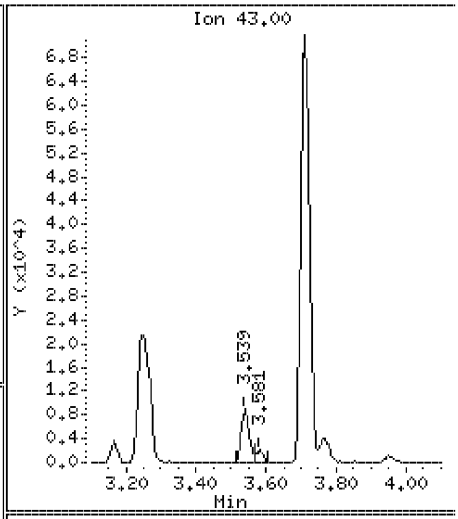
Concentration: 0.194 ppbv

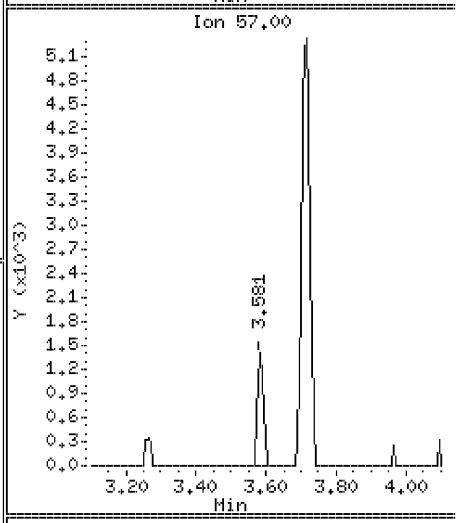


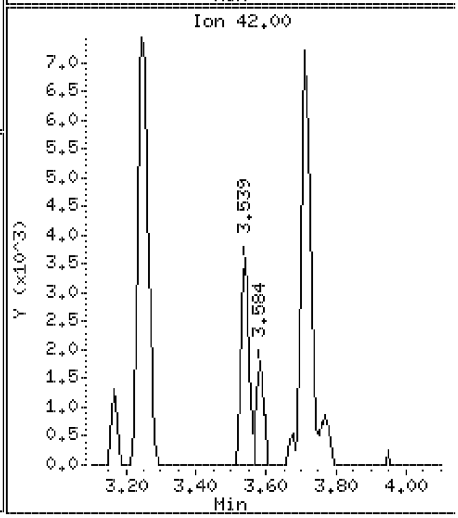












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

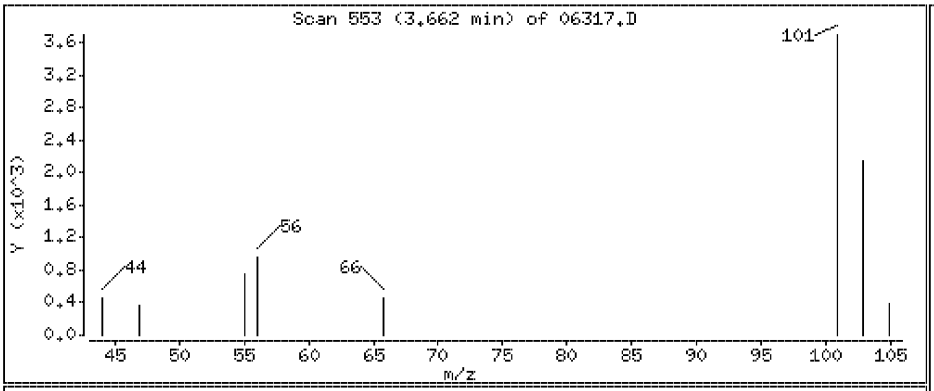
Operator: MJL

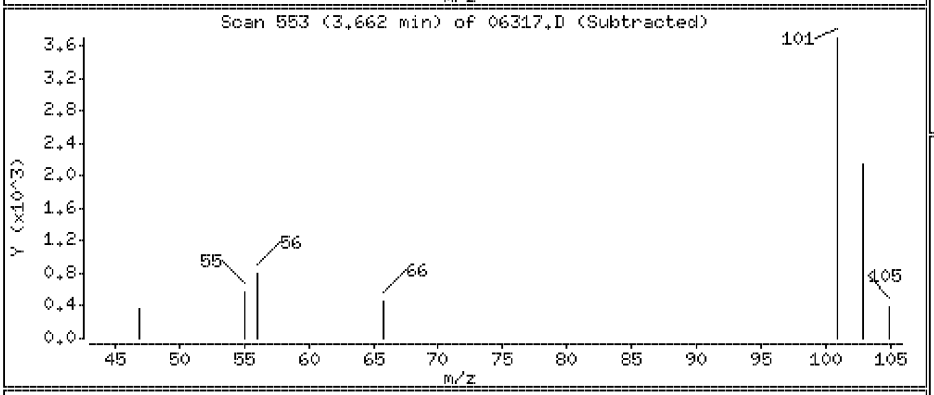
Column phase: J&W DB-5

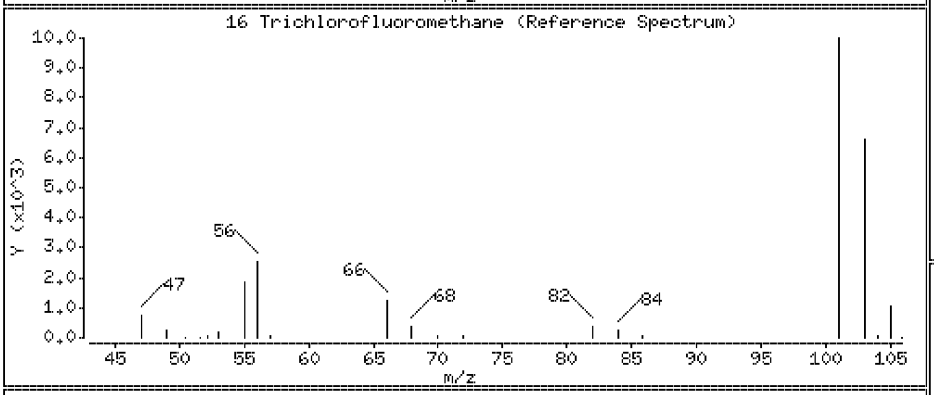
Column diameter: 0.32

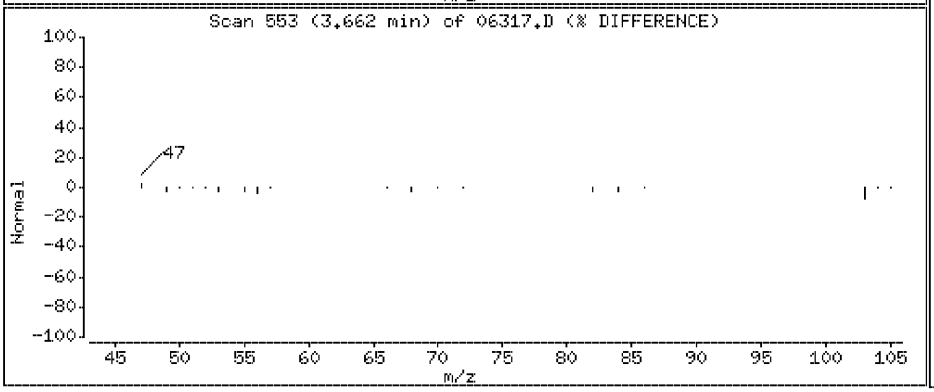
16 Trichlorofluoromethane

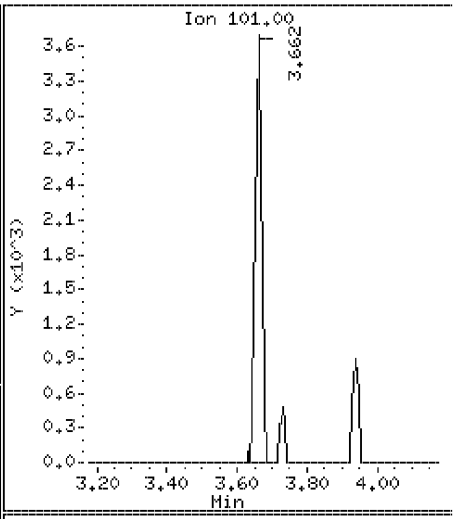
Concentration: 0.221 ppbv

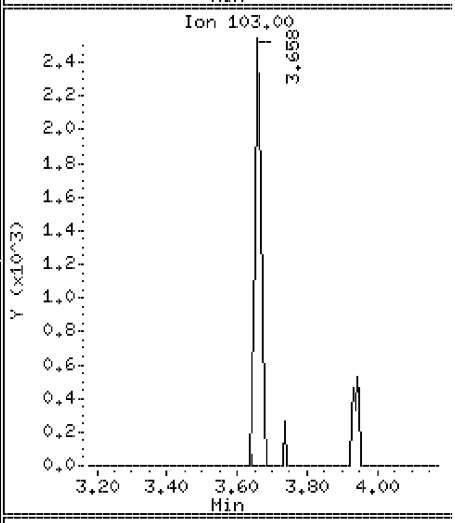


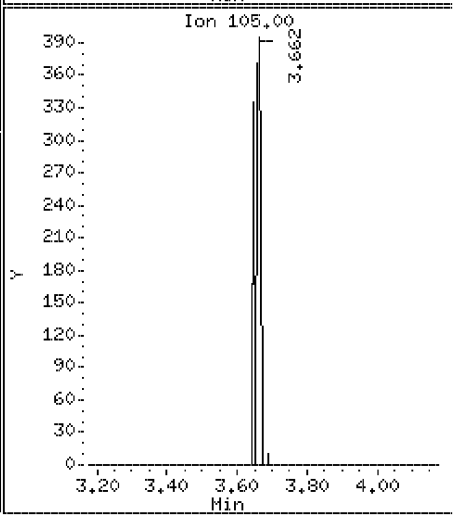












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

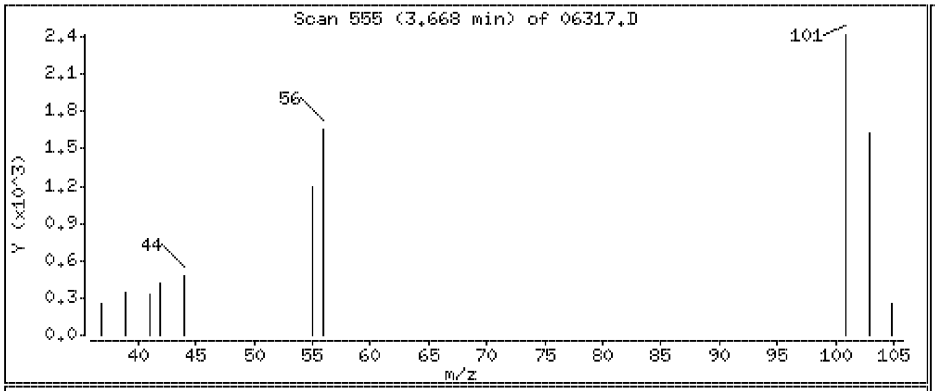
Operator: MJL

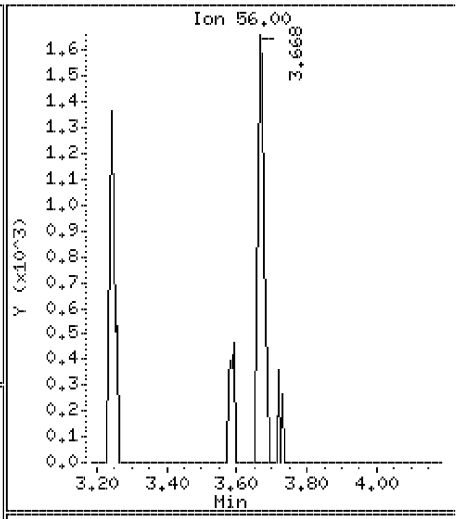
Column phase: J&W DB-5

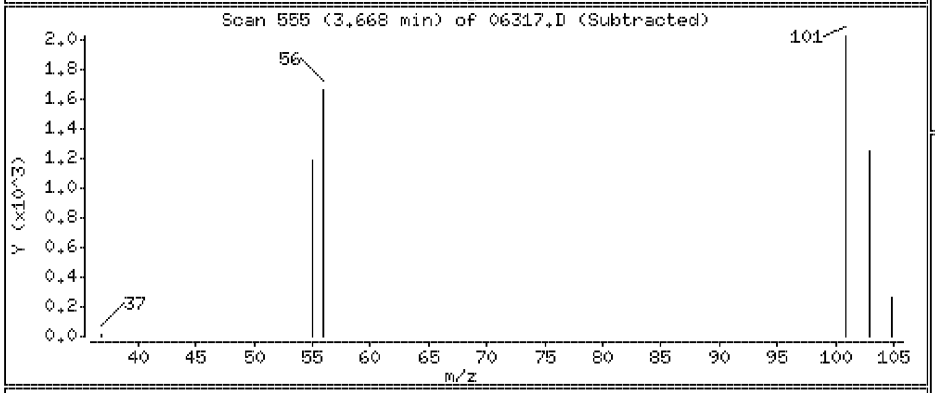
Column diameter: 0.32

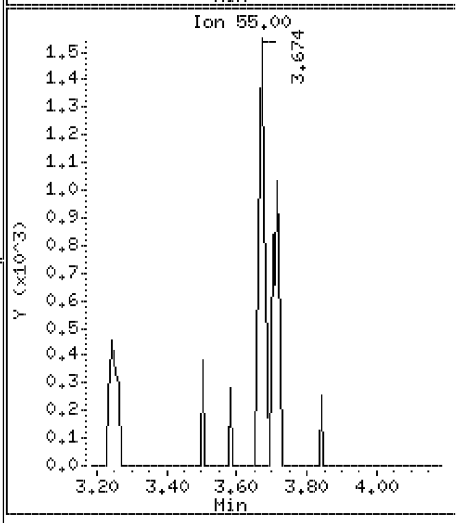
17 Acrolein

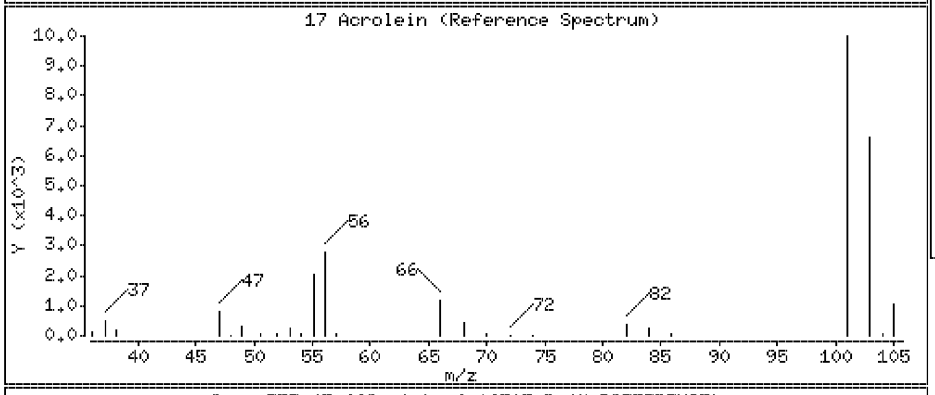
Concentration: 1.04 ppbv

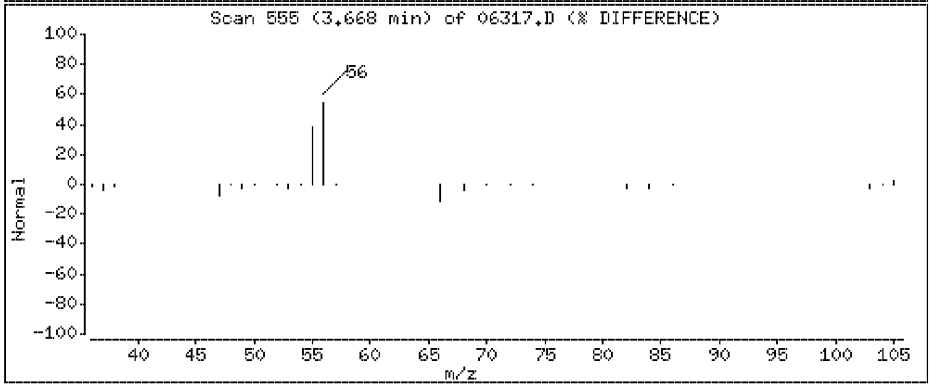












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

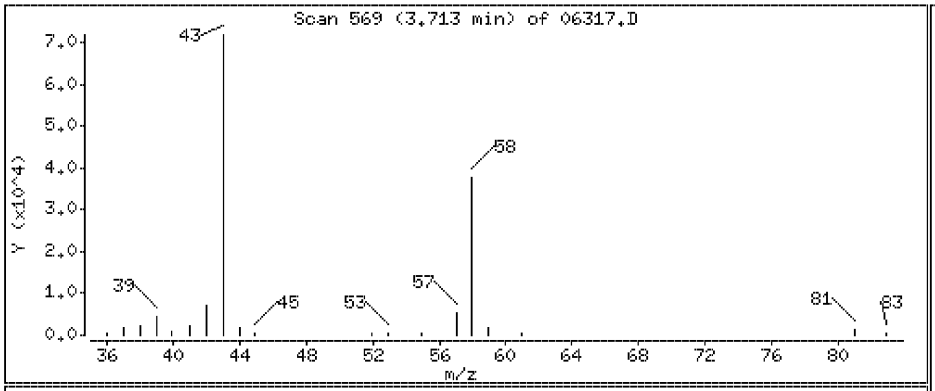
Operator: MJL

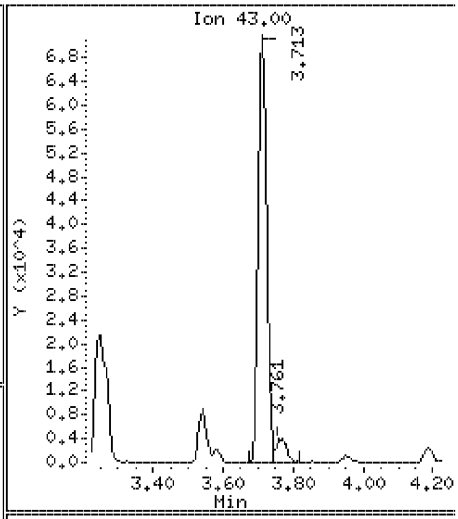
Column phase: J&W DB-5

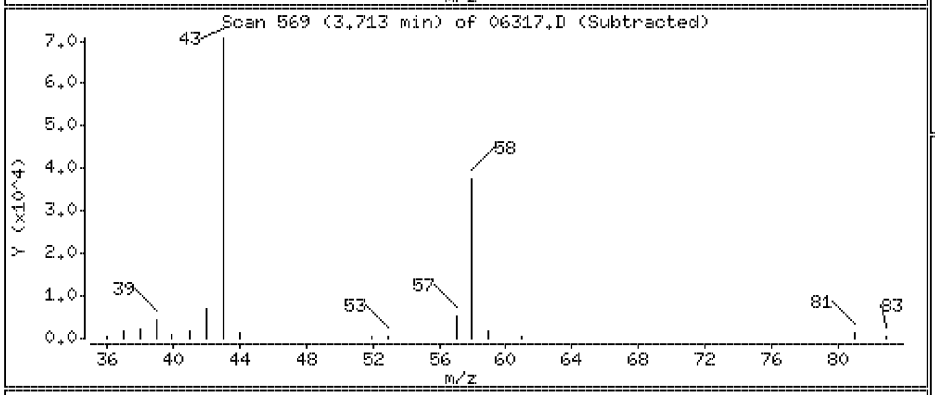
Column diameter: 0.32

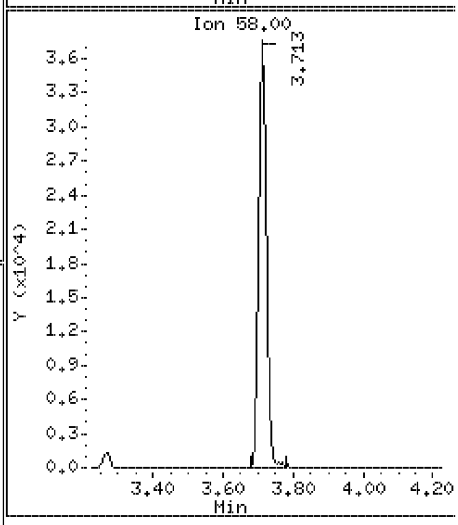
18 Acetone

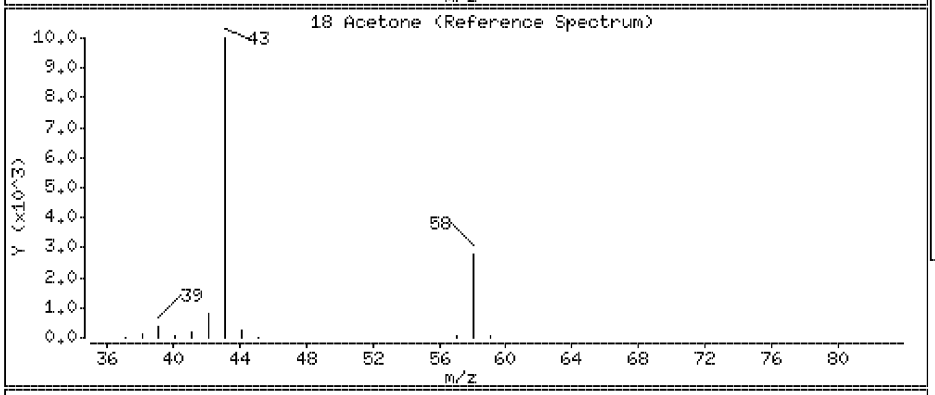
Concentration: 9.80 ppbv

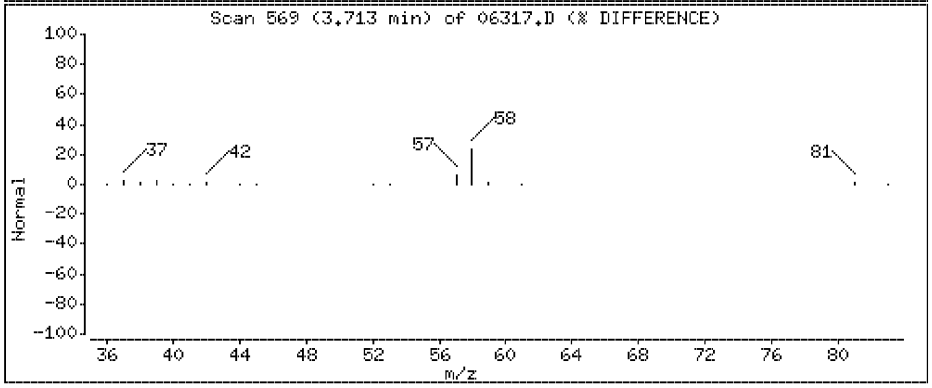












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

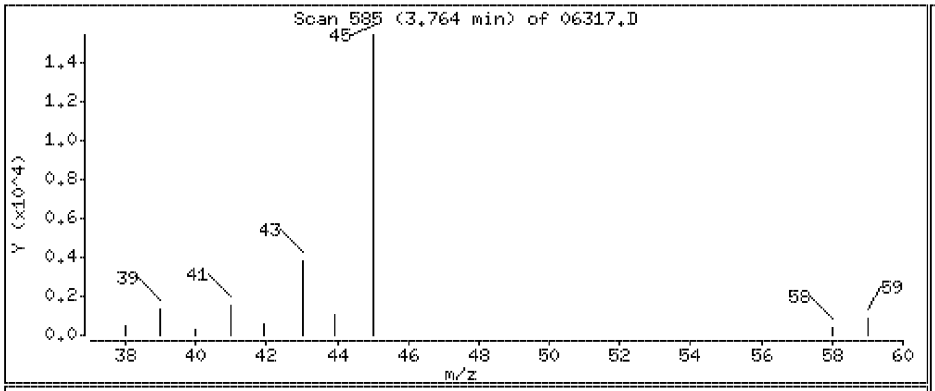
Operator: MJL

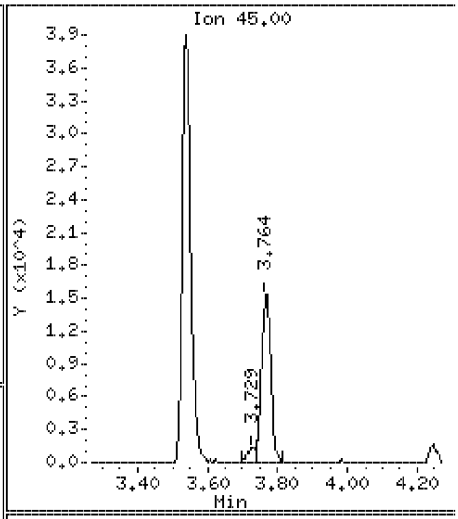
Column phase: J&W DB-5

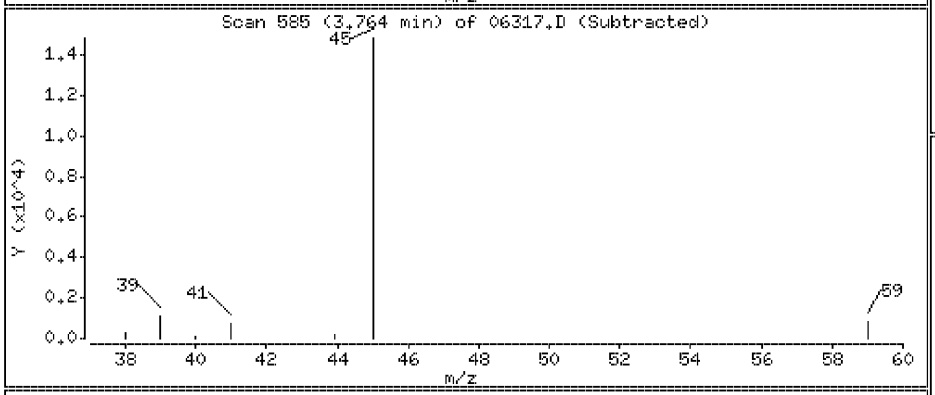
Column diameter: 0.32

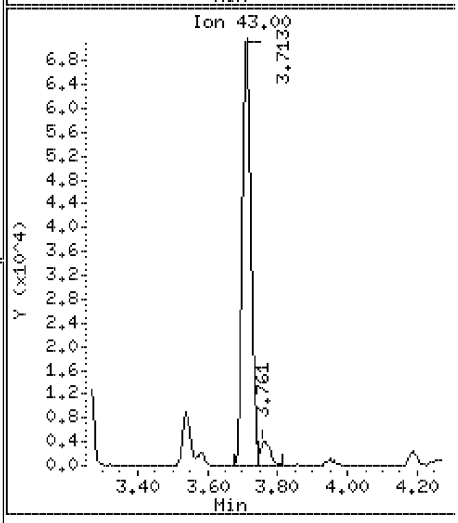
19 Isopropyl Alcohol

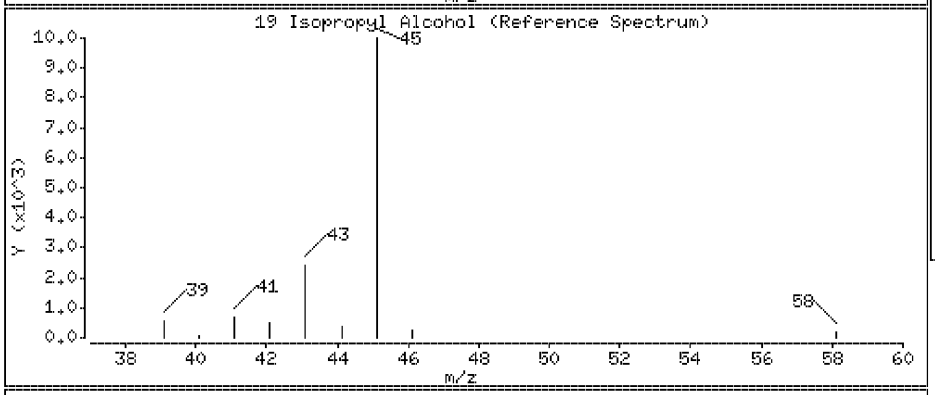
Concentration: 2.28 ppbv

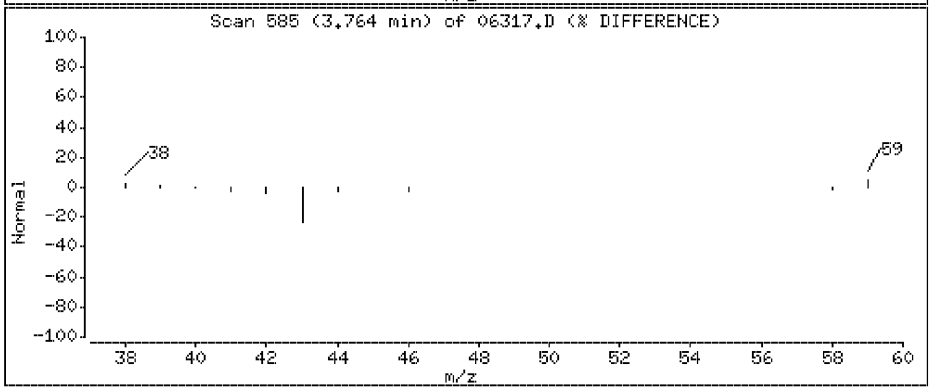












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

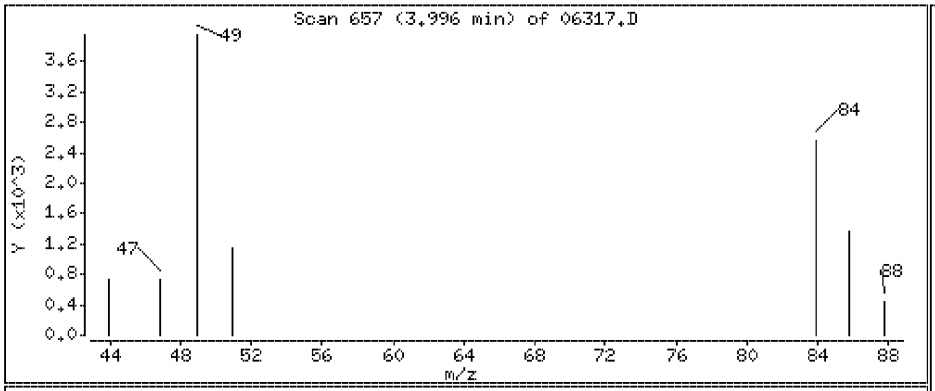
Operator: MJL

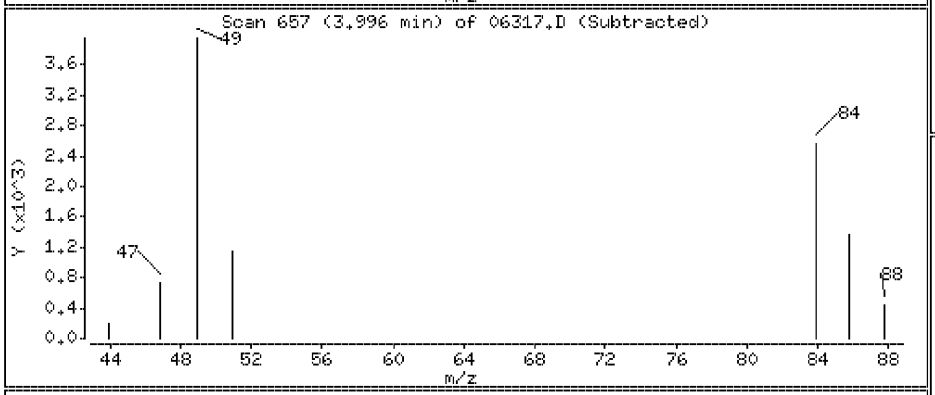
Column phase: J&W DB-5

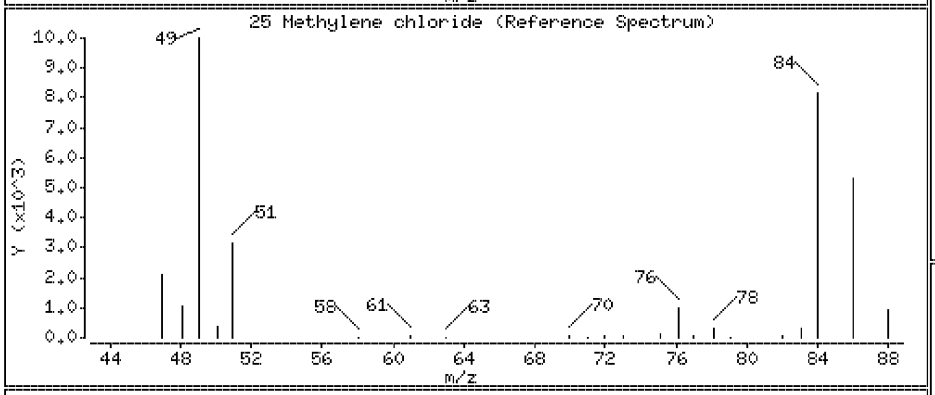
Column diameter: 0.32

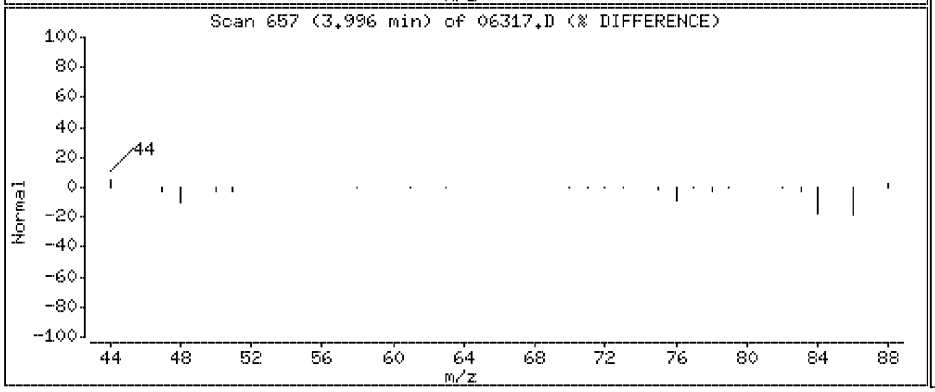
25 Methylene chloride

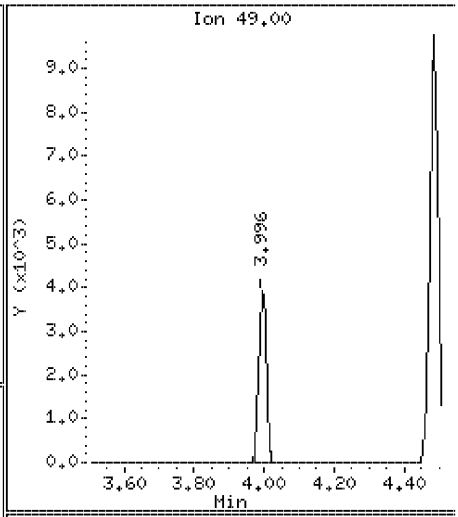
Concentration: 0.661 ppbv

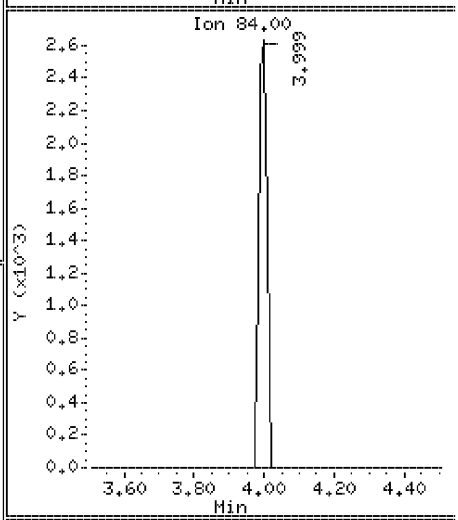


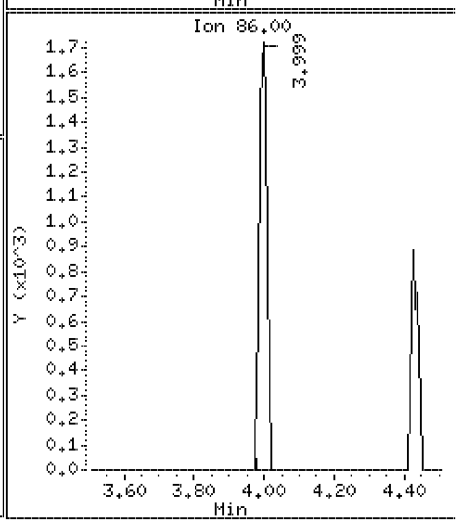












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

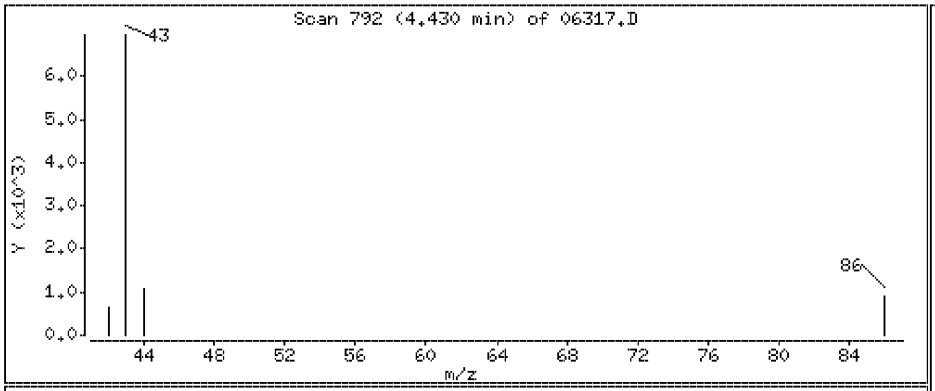
Operator: MJL

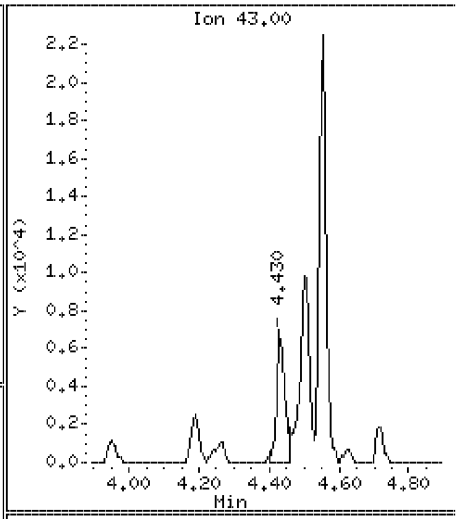
Column phase: J&W DB-5

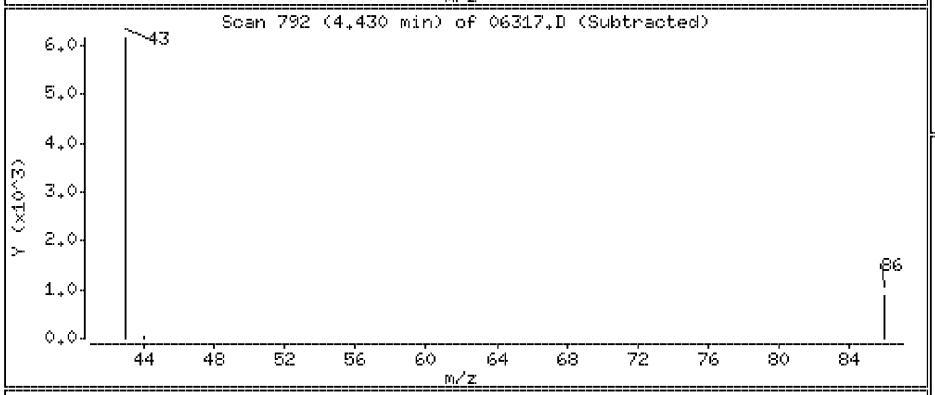
Column diameter: 0.32

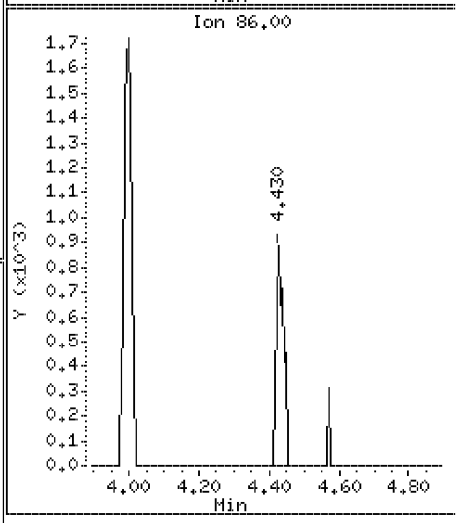
30 Vinyl Acetate

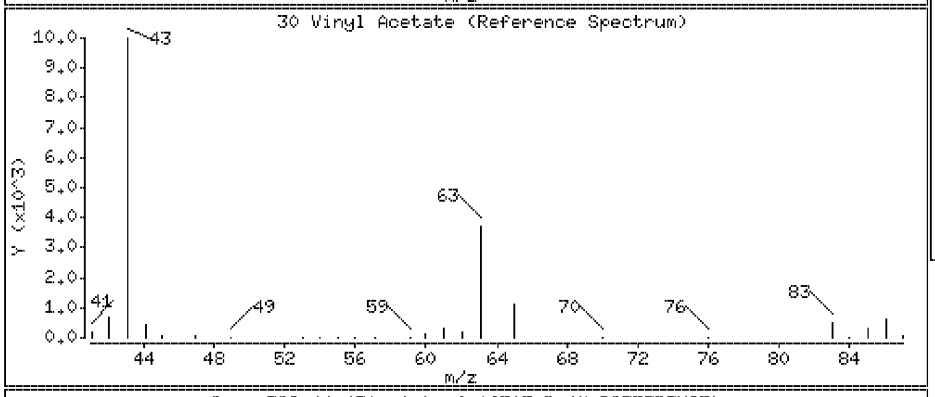
Concentration: 0.801 ppbv

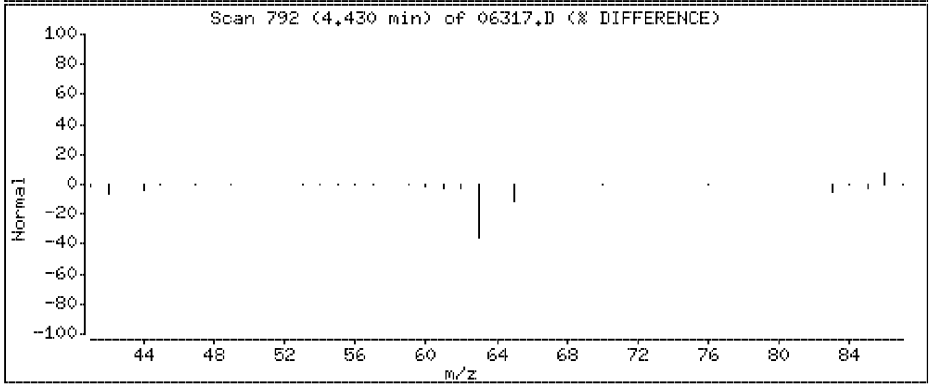












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

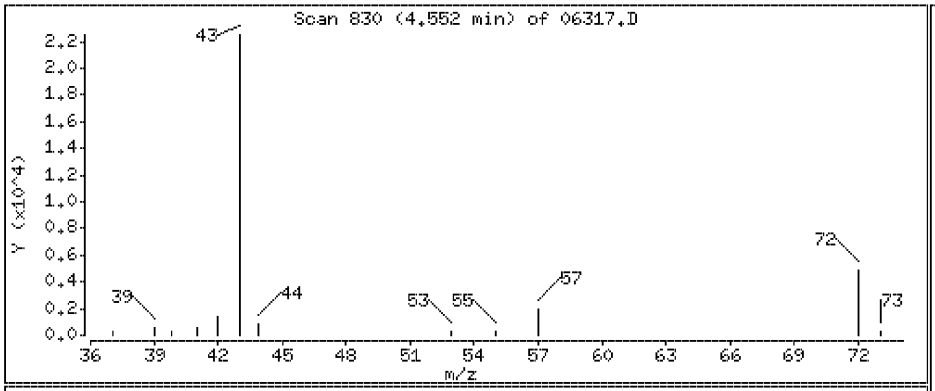
Operator: MJL

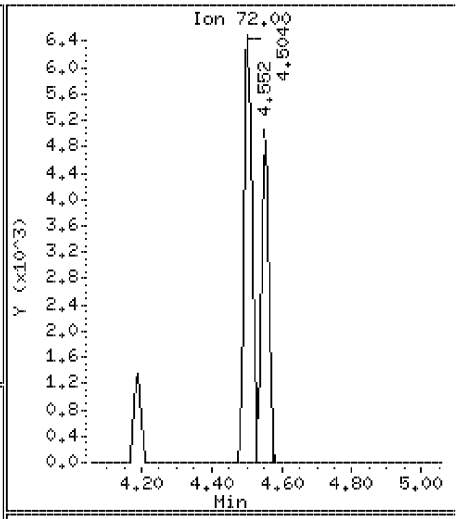
Column phase: J&W DB-5

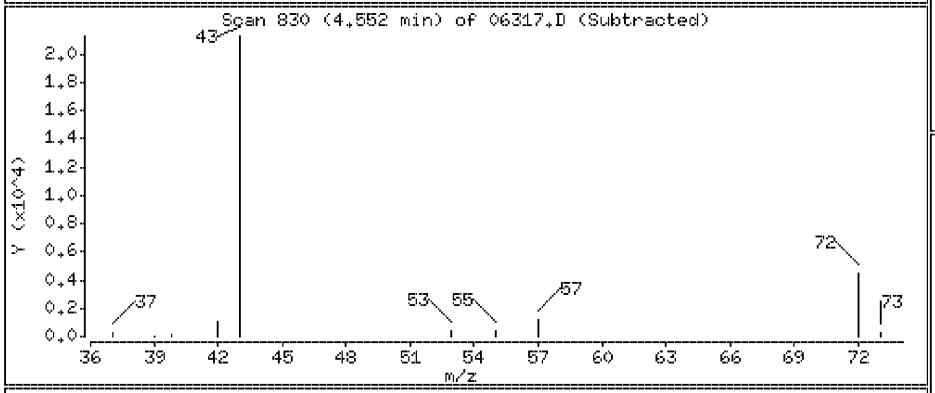
Column diameter: 0.32

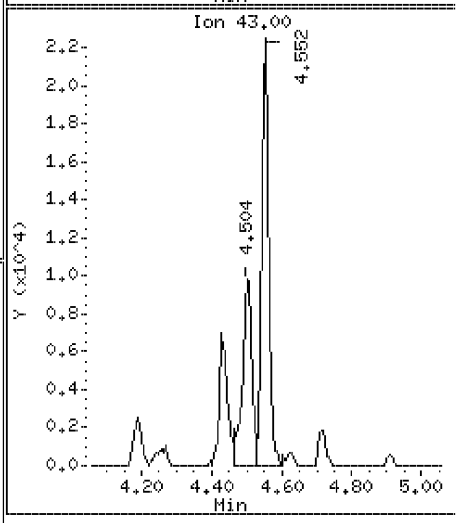
33 Methyl Ethyl Ketone

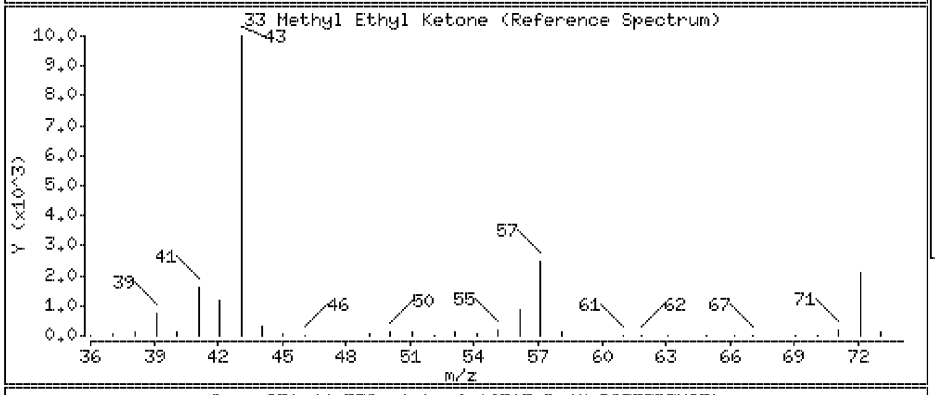
Concentration: 2.02 ppbv

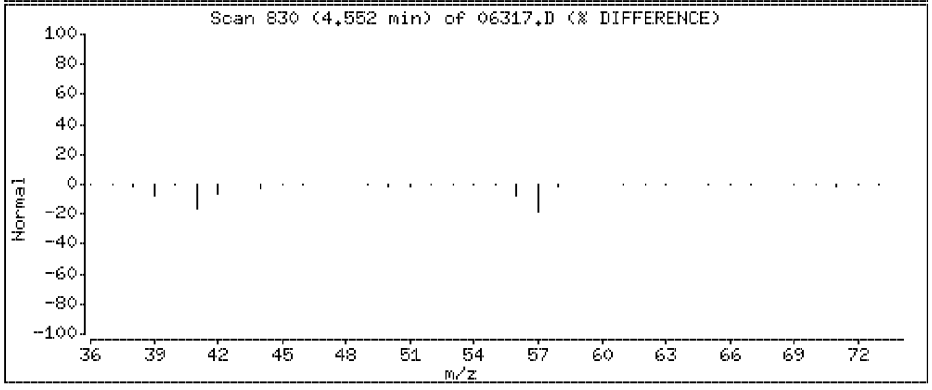












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

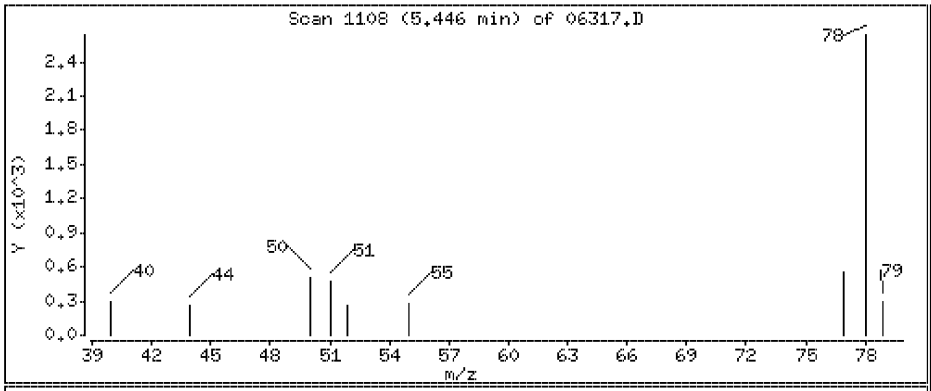
Operator: MJL

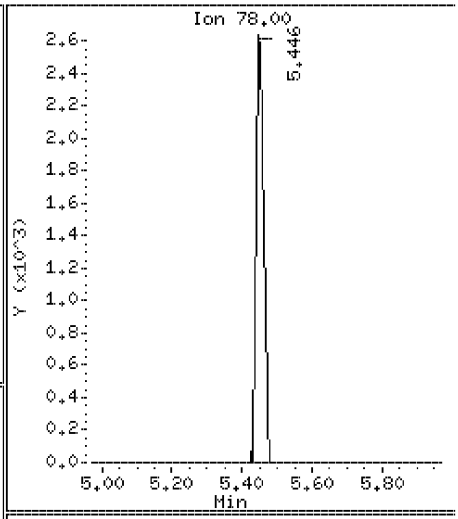
Column phase: J&W DB-5

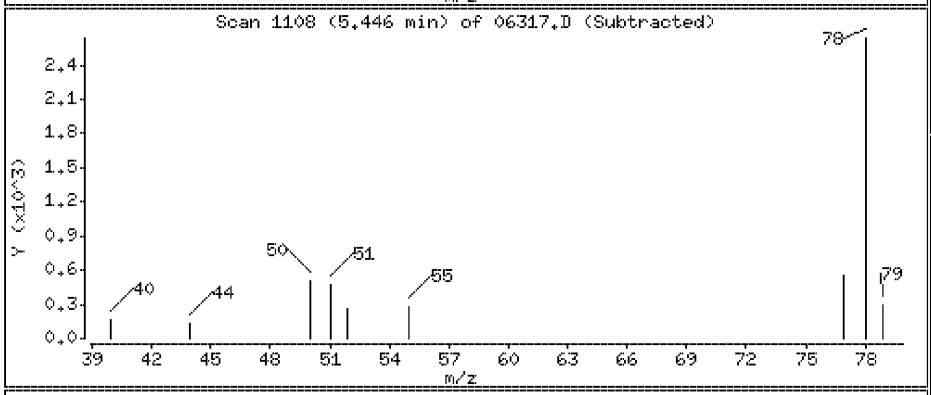
Column diameter: 0.32

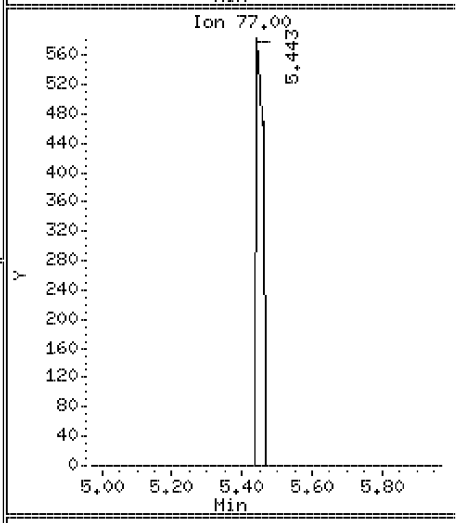
43 Benzene

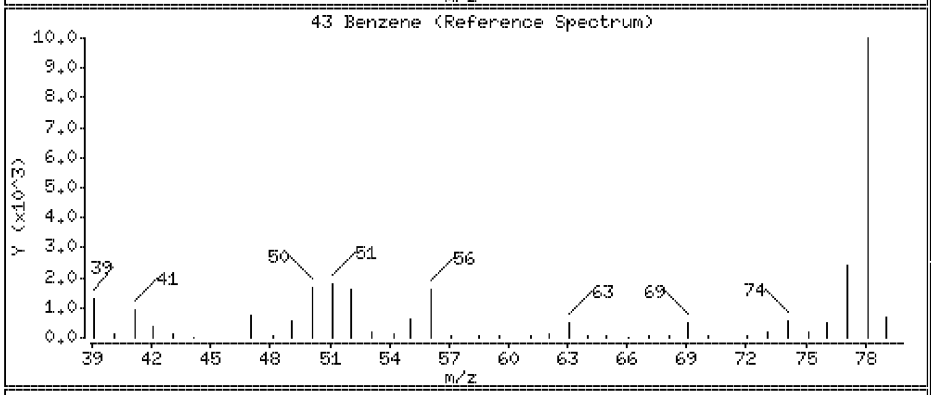
Concentration: 0.149 ppbv

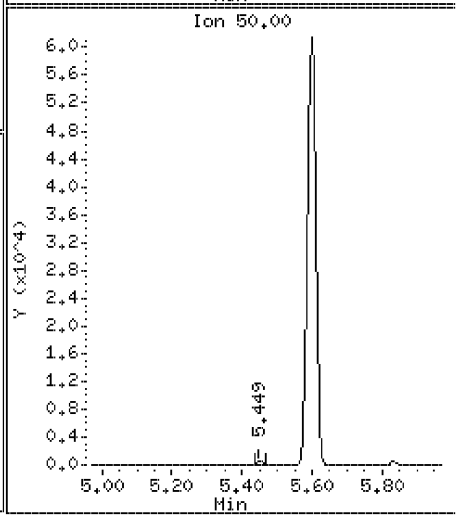


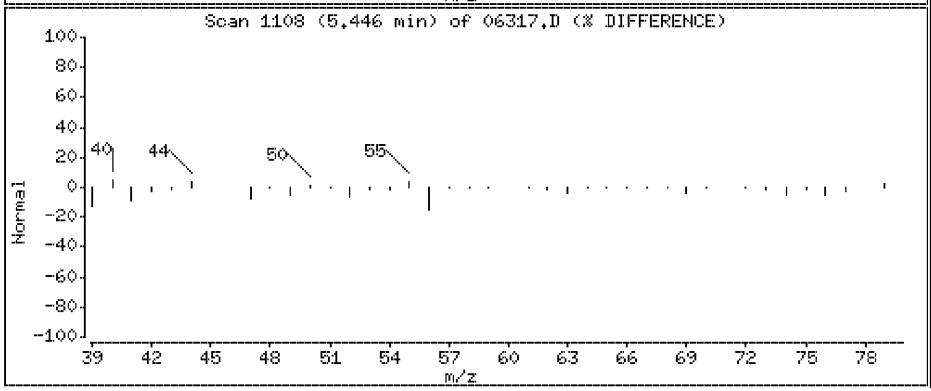












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

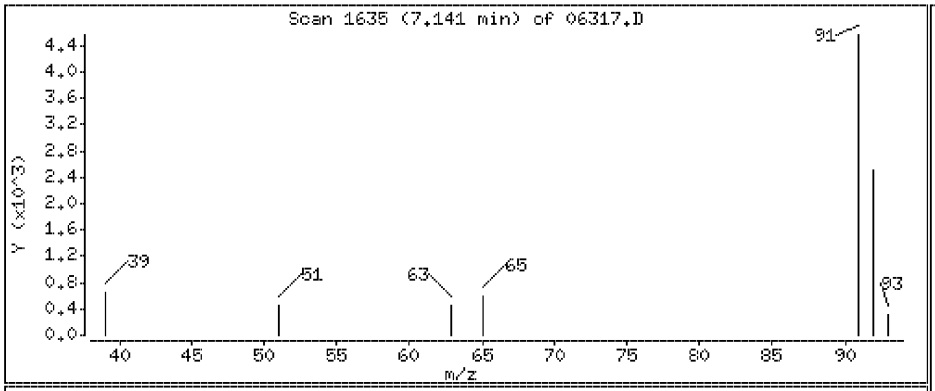
Operator: MJL

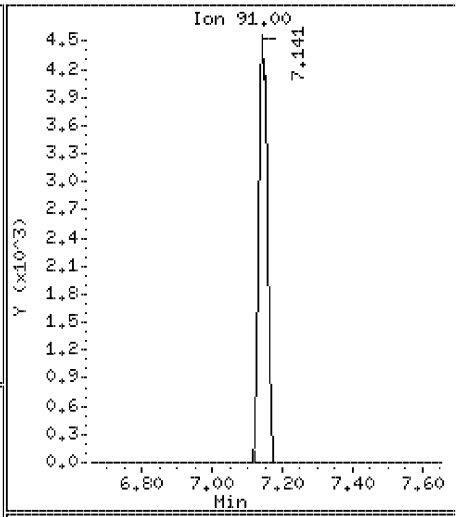
Column phase: J&W DB-5

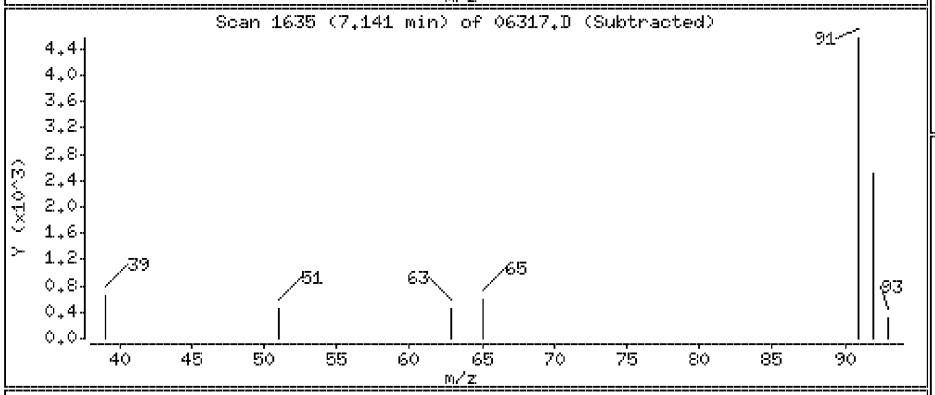
Column diameter: 0.32

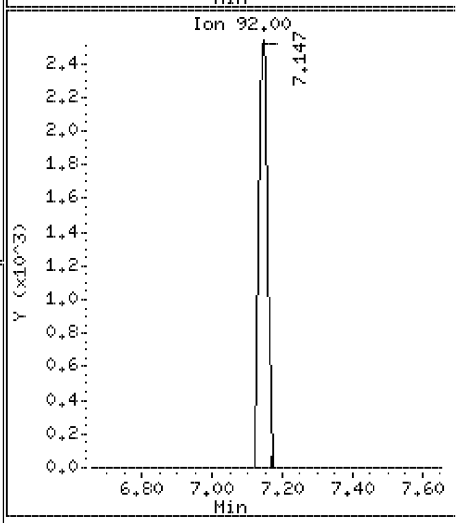
61 Toluene

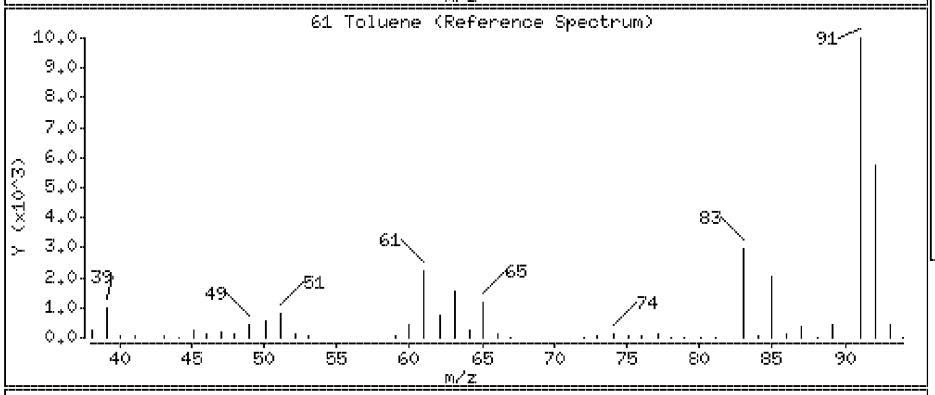
Concentration: 0.248 ppbv

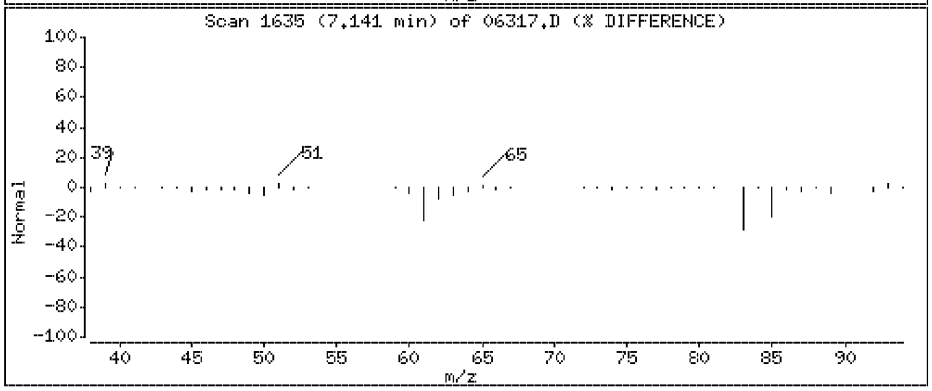












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

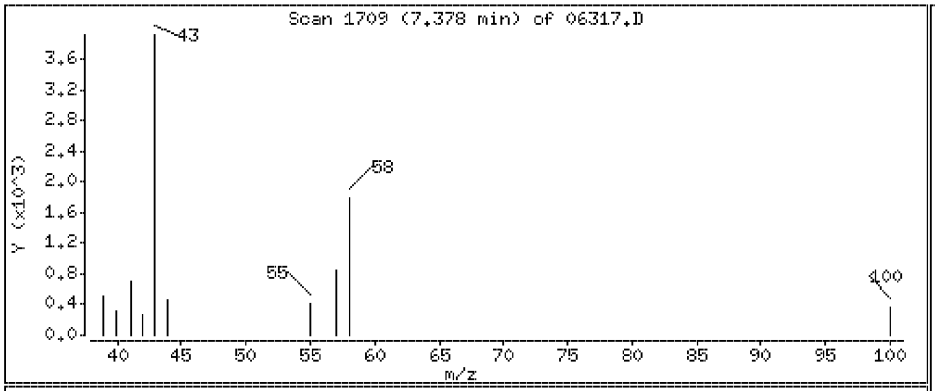
Operator: MJL

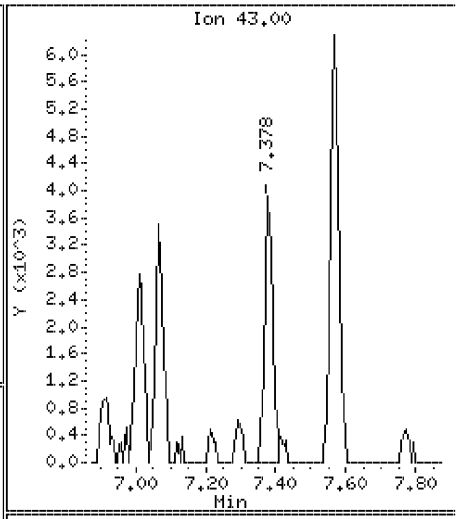
Column phase: J&W DB-5

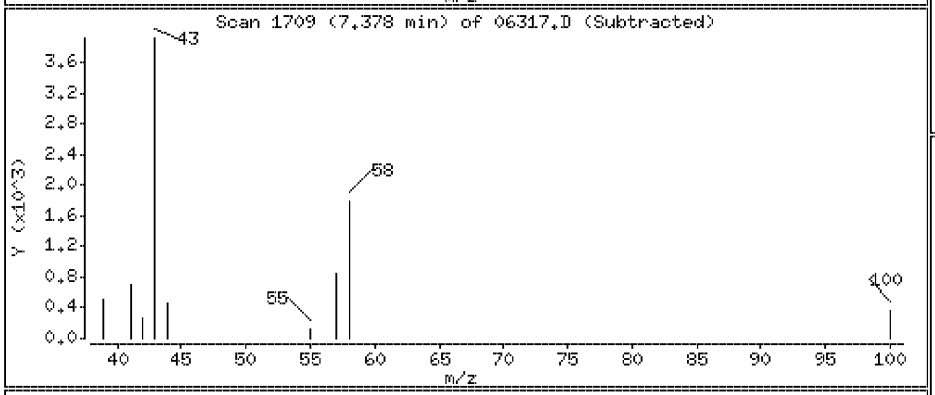
Column diameter: 0.32

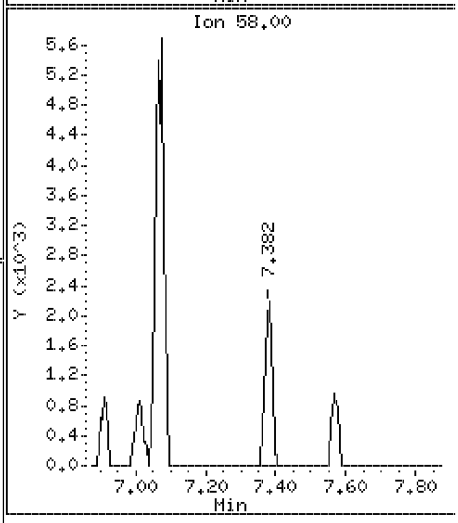
62 Methyl Butyl Ketone

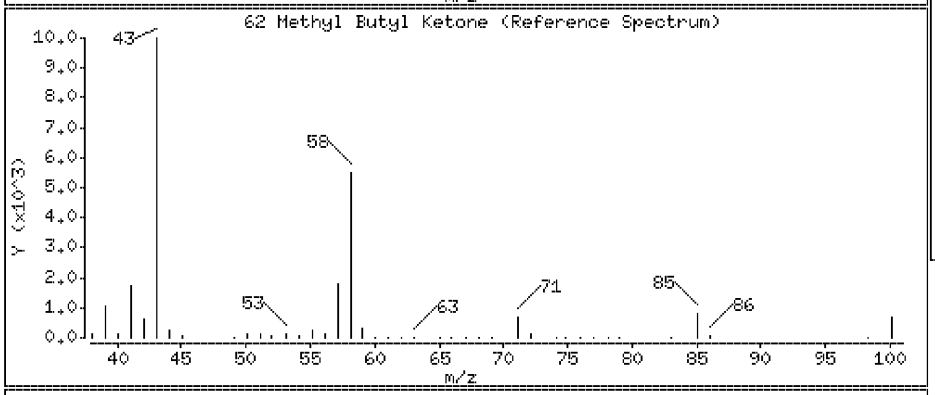
Concentration: 0.383 ppbv

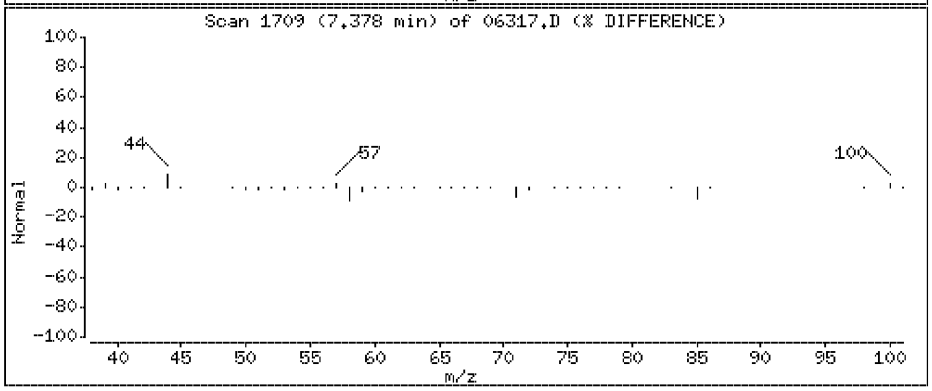












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

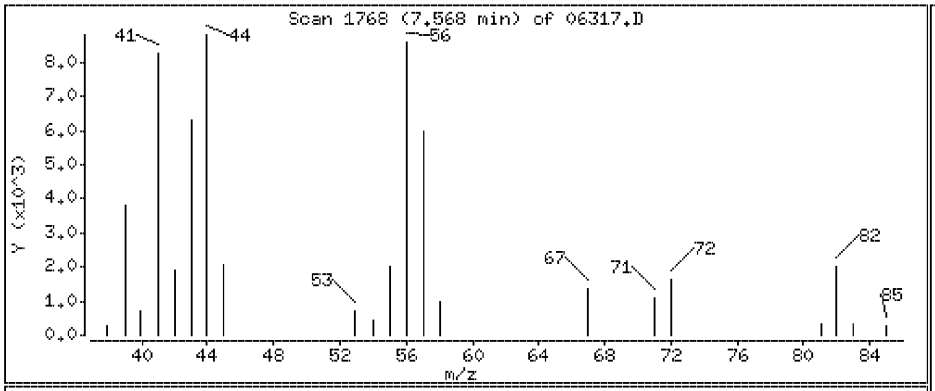
Operator: MJL

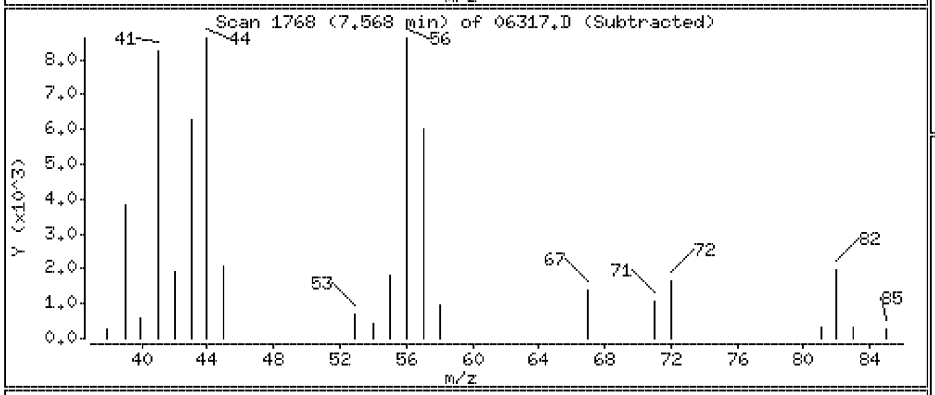
Column phase: J&W DB-5

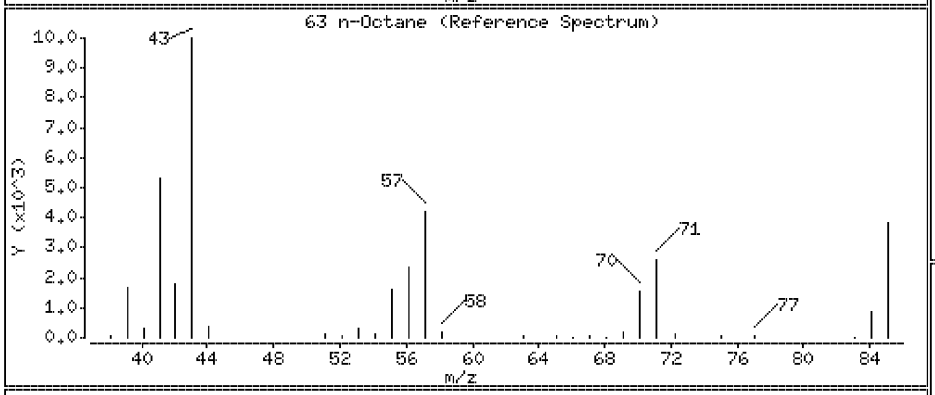
Column diameter: 0.32

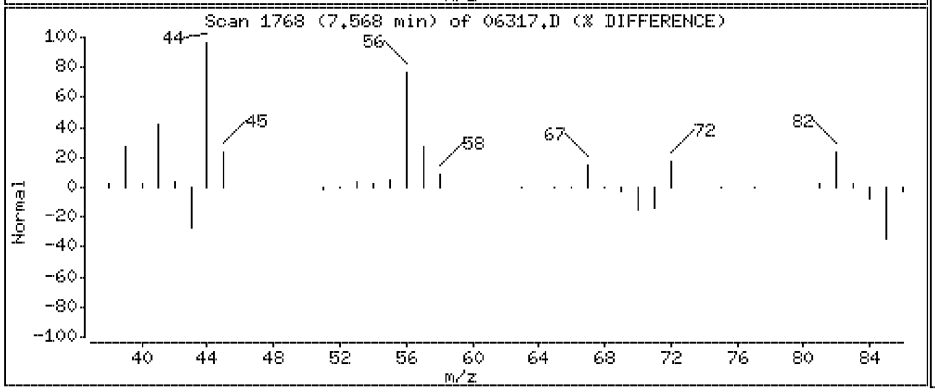
63 n-Octane

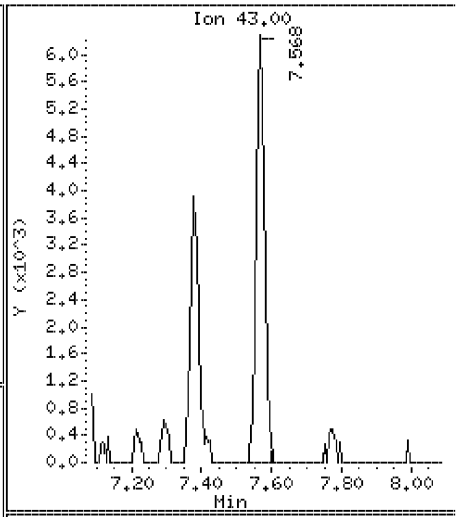
Concentration: 0.611 ppbv

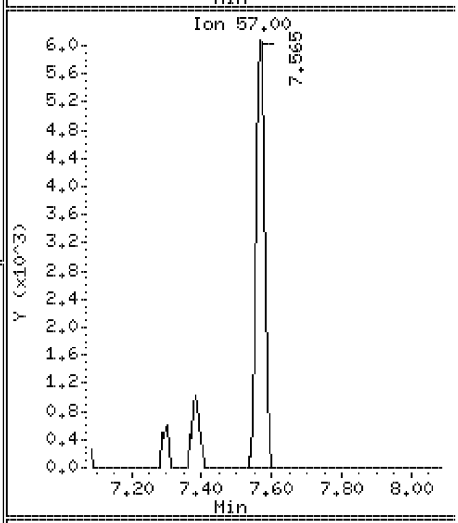


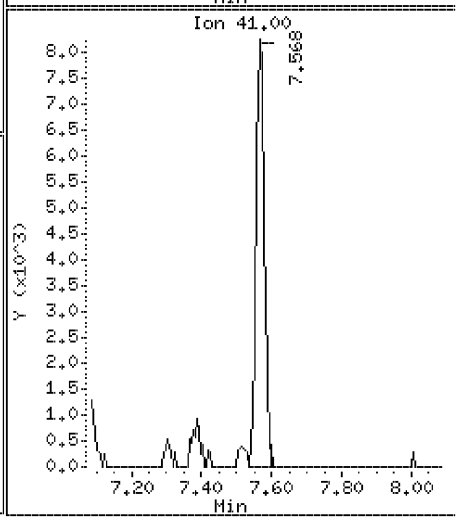












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

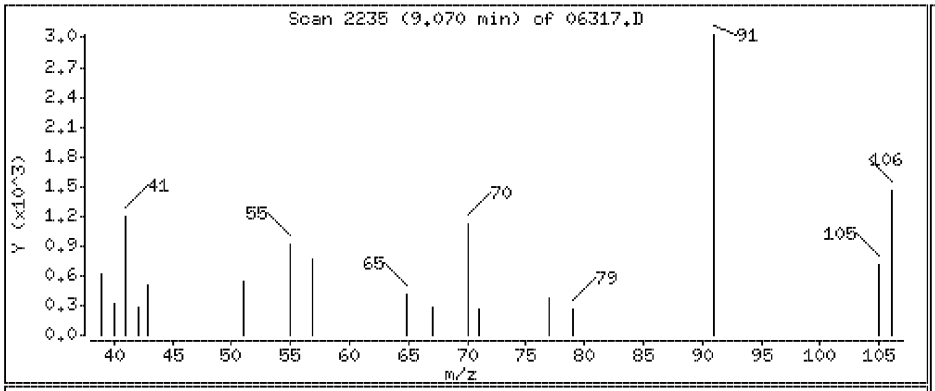
Operator: MJL

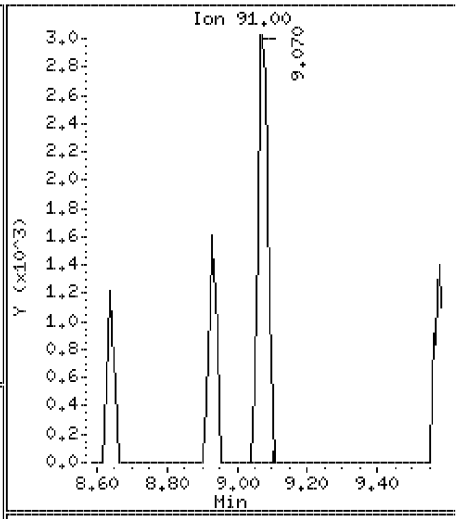
Column phase: J&W DB-5

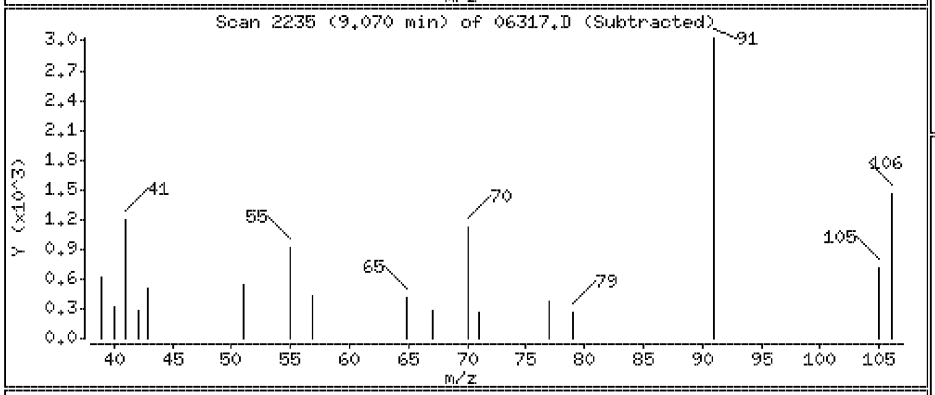
Column diameter: 0.32

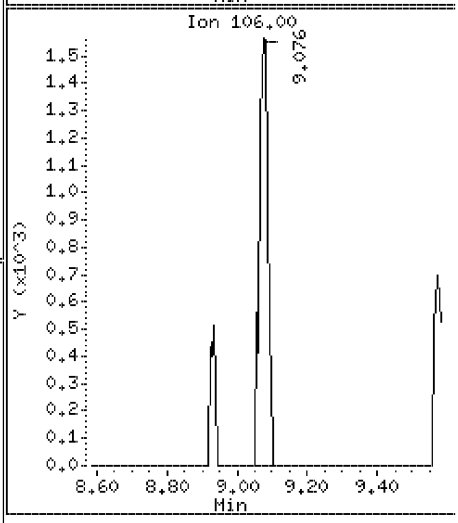
70 m&p-Xylene

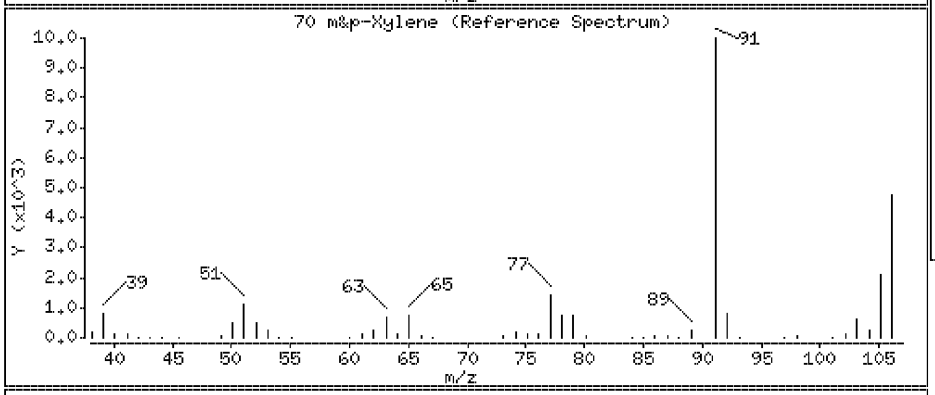
Concentration: 0.210 ppbv

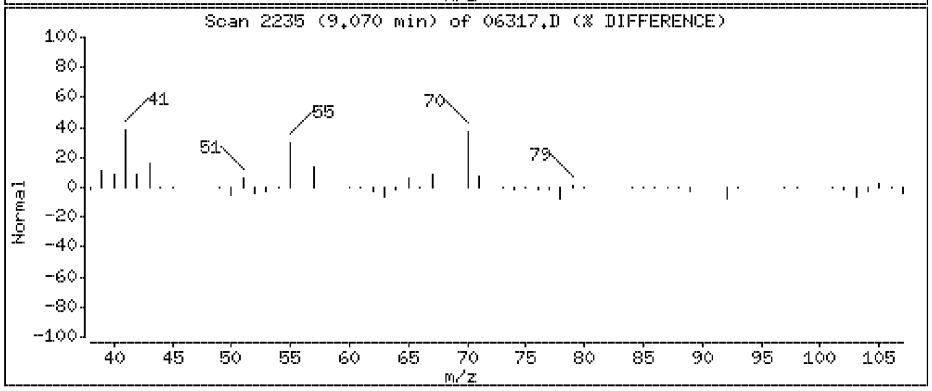












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

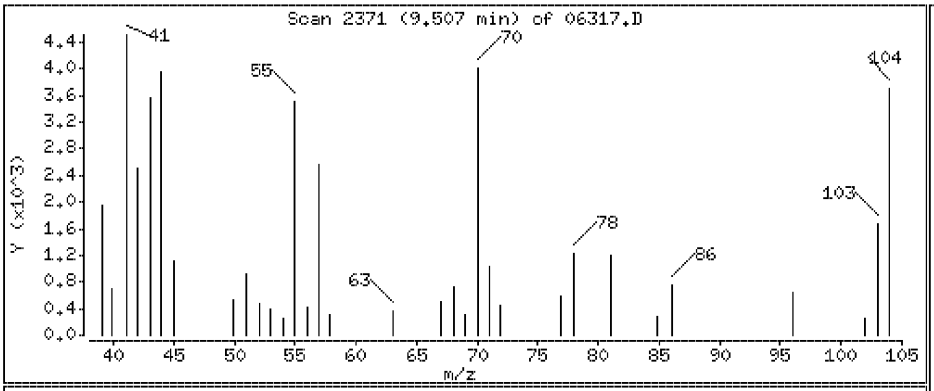
Operator: MJL

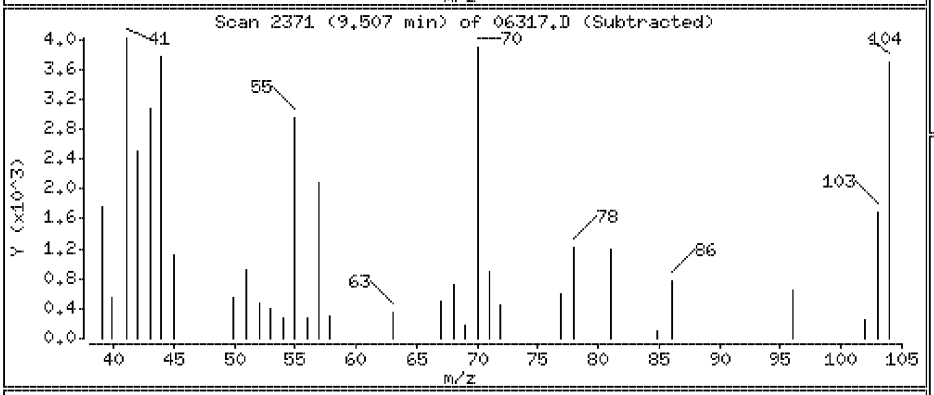
Column phase: J&W DB-5

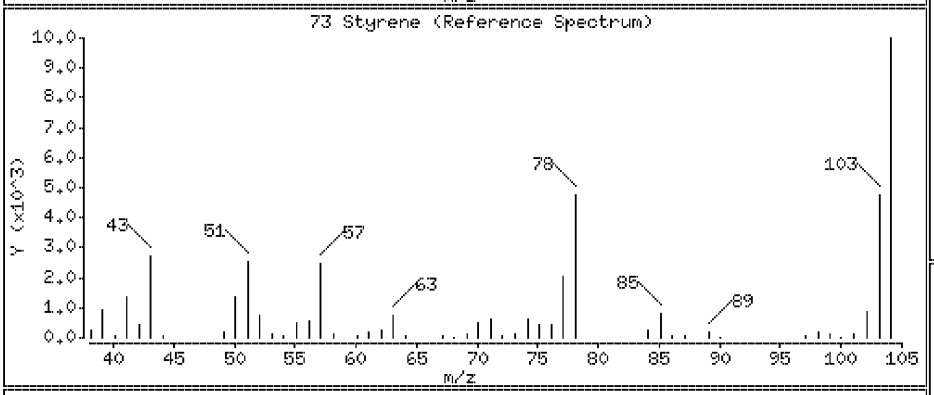
Column diameter: 0.32

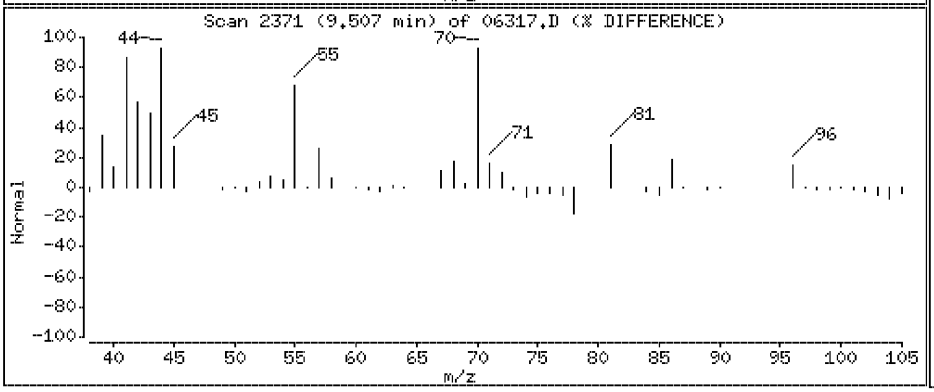
73 Styrene

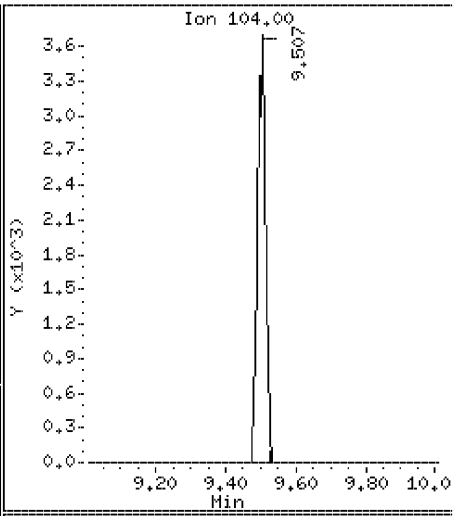
Concentration: 0.360 ppbv

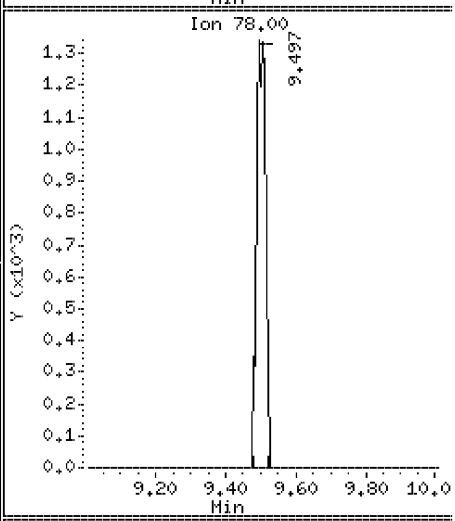


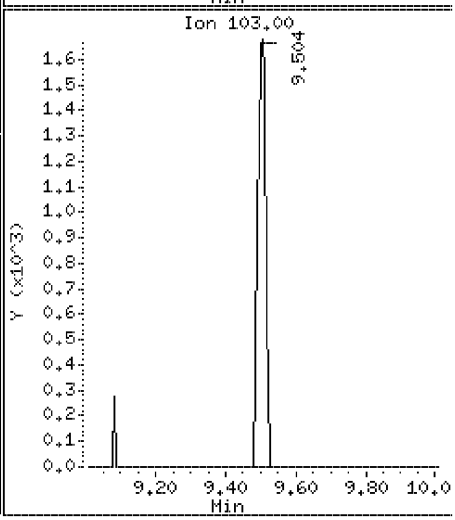












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

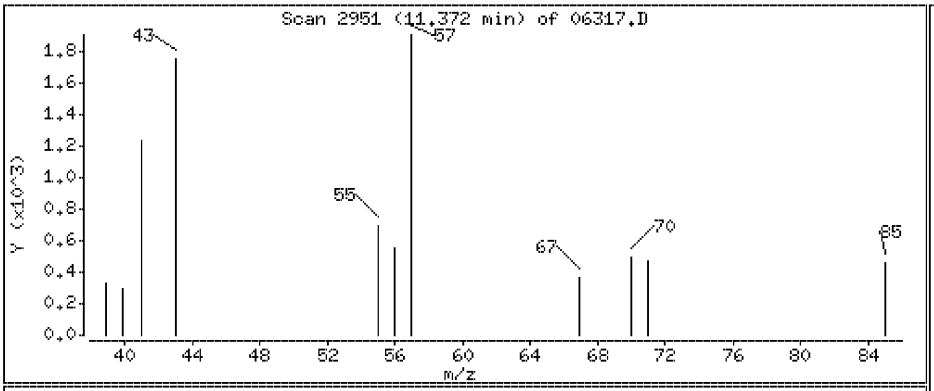
Operator: MJL

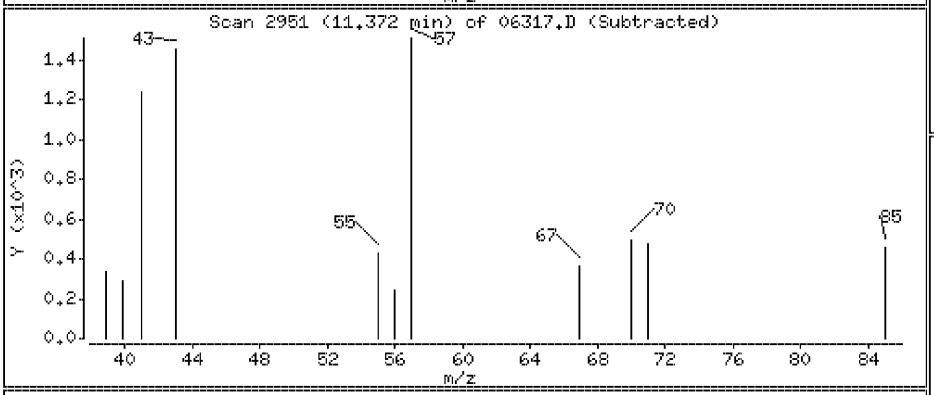
Column phase: J&W DB-5

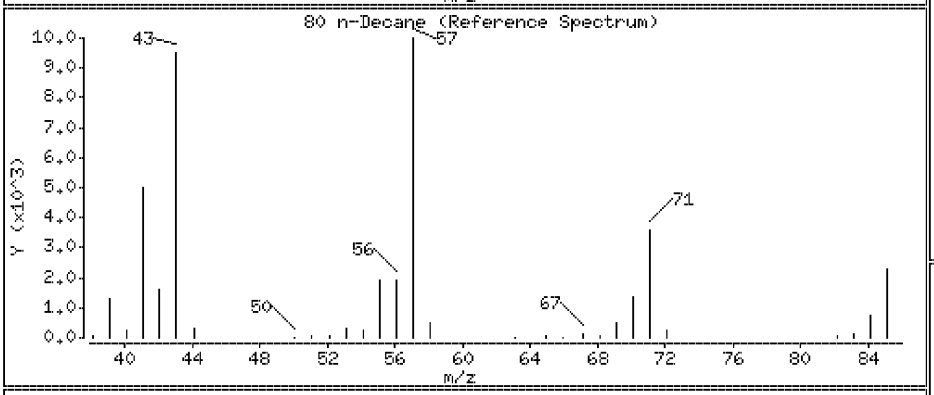
Column diameter: 0.32

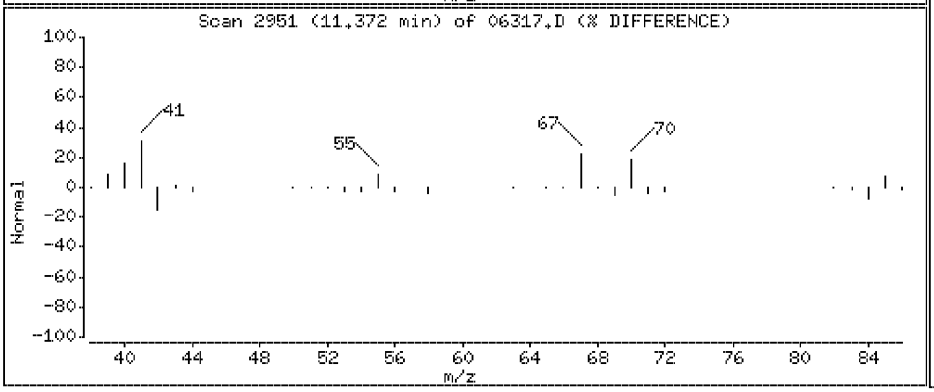
80 n-Decane

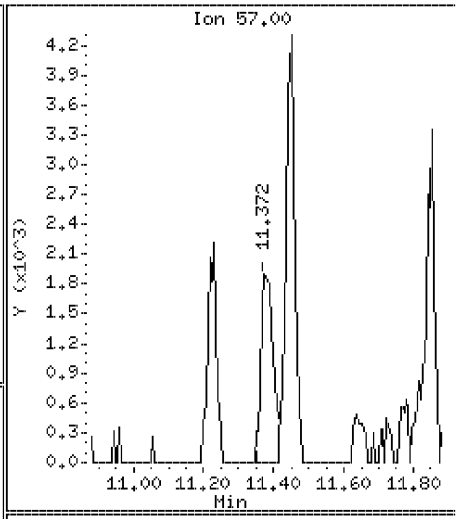
Concentration: 0.629 ppbv

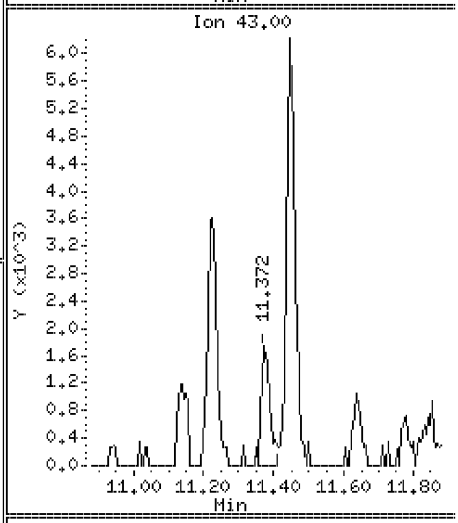


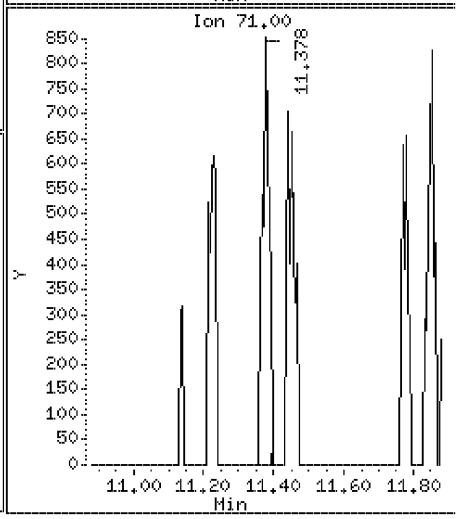












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06317.D

Date : 04-MAR-2017 14:53

Client ID:

Instrument: 10airB.i

Sample Info:

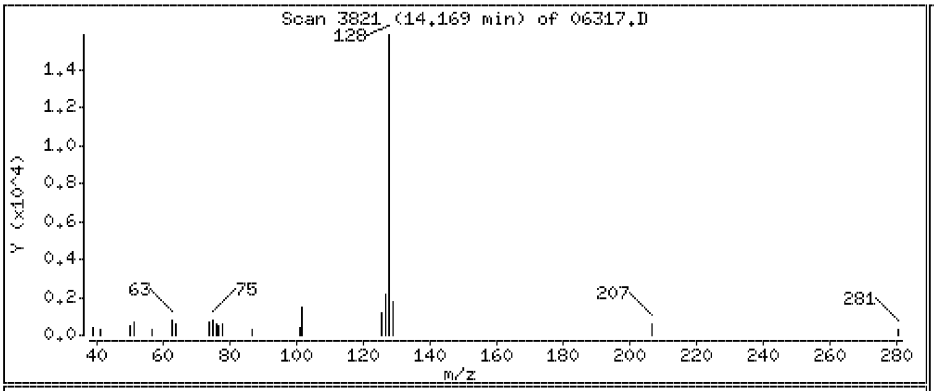
Operator: MJL

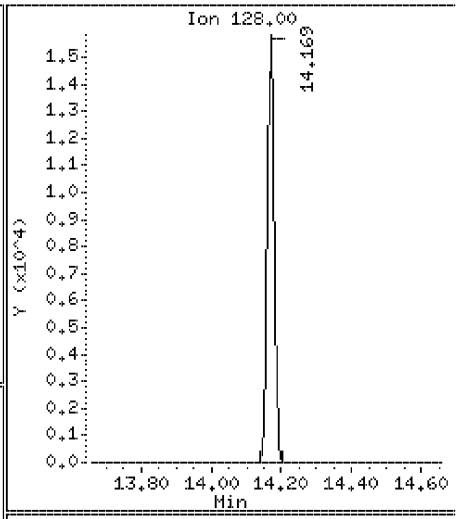
Column phase: J&W DB-5

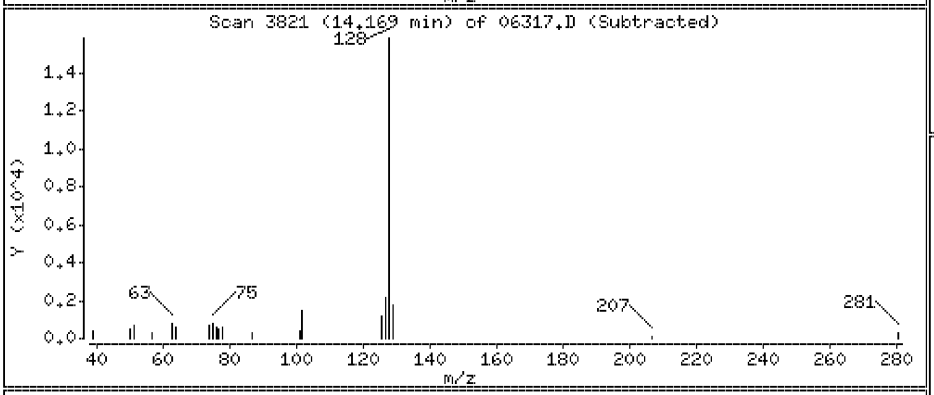
Column diameter: 0.32

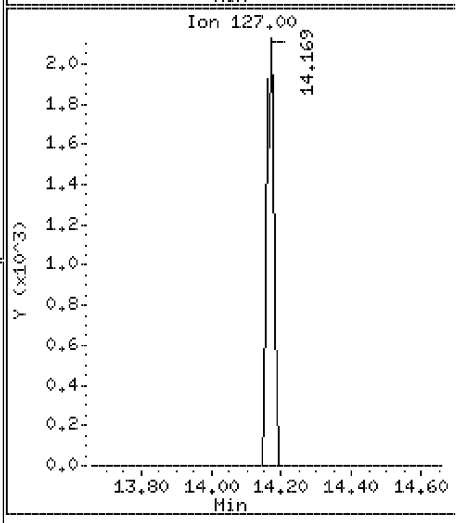
94 Naphthalene

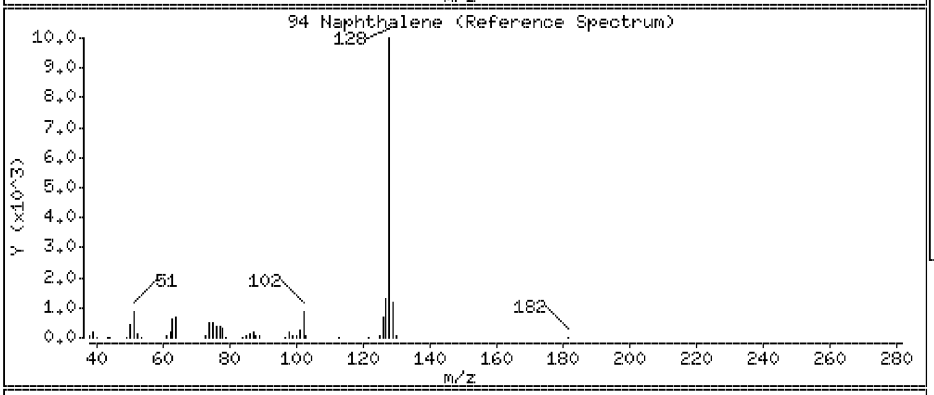
Concentration: 1.56 ppbv

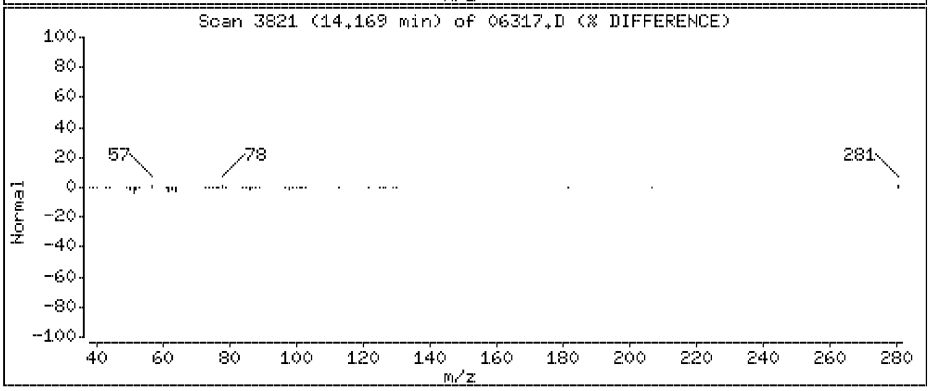






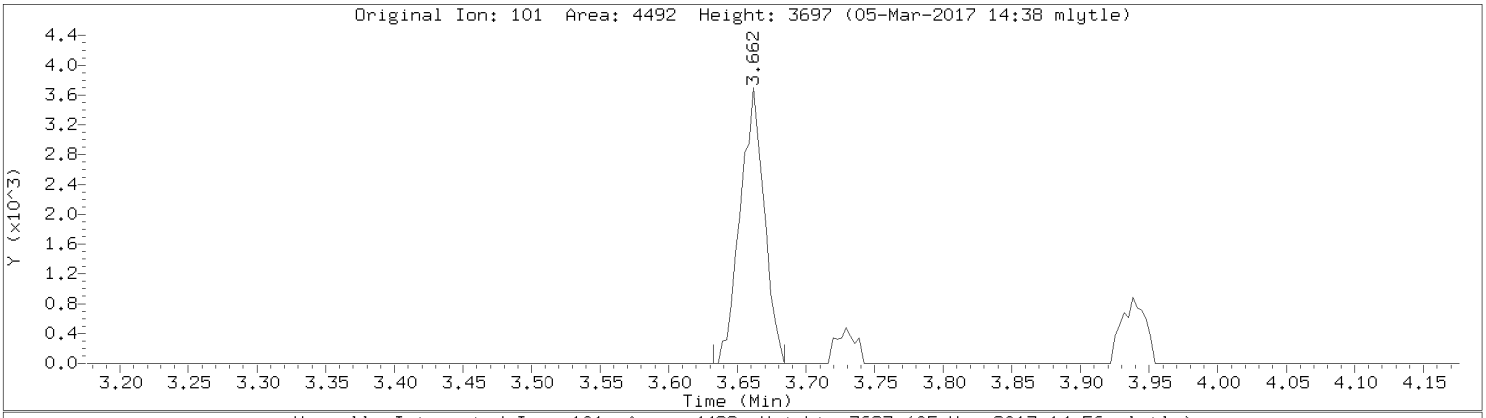


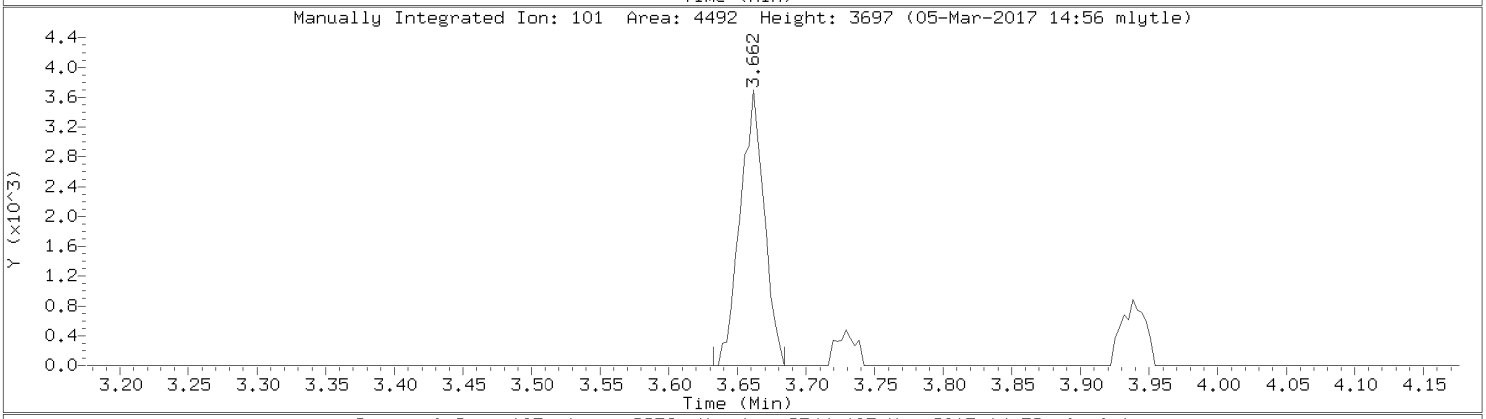


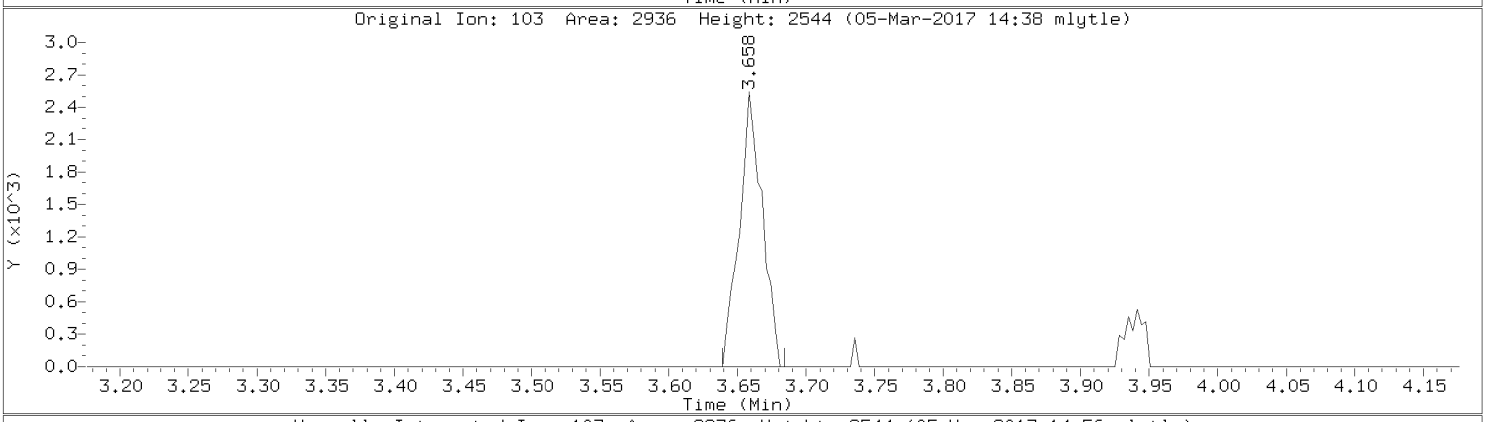


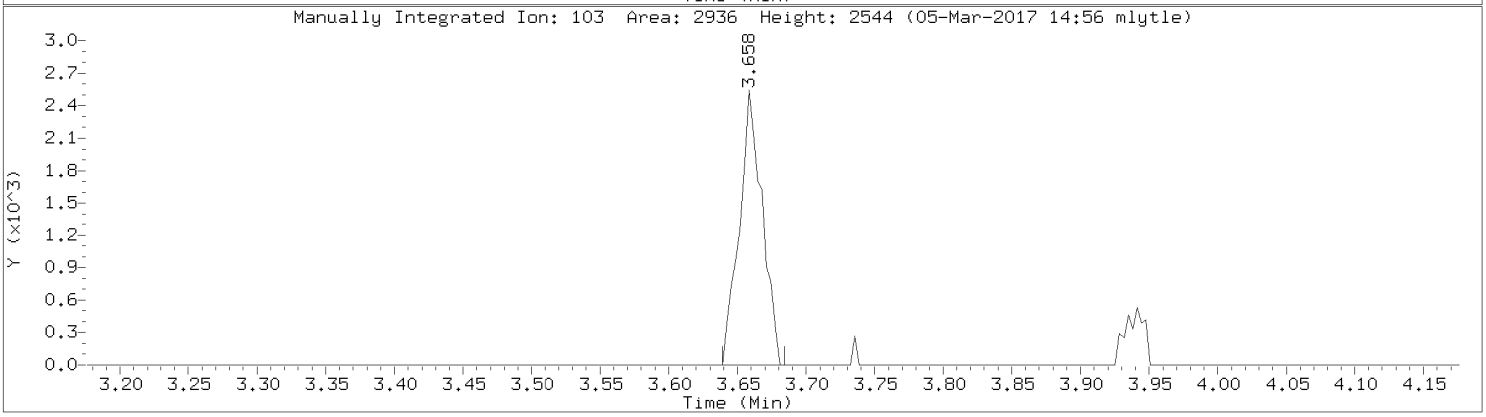
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06317.D
Injection Date: 04-MAR-2017 14:53
Instrument: 10airB.i
Lab Sample ID: 10379929011

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

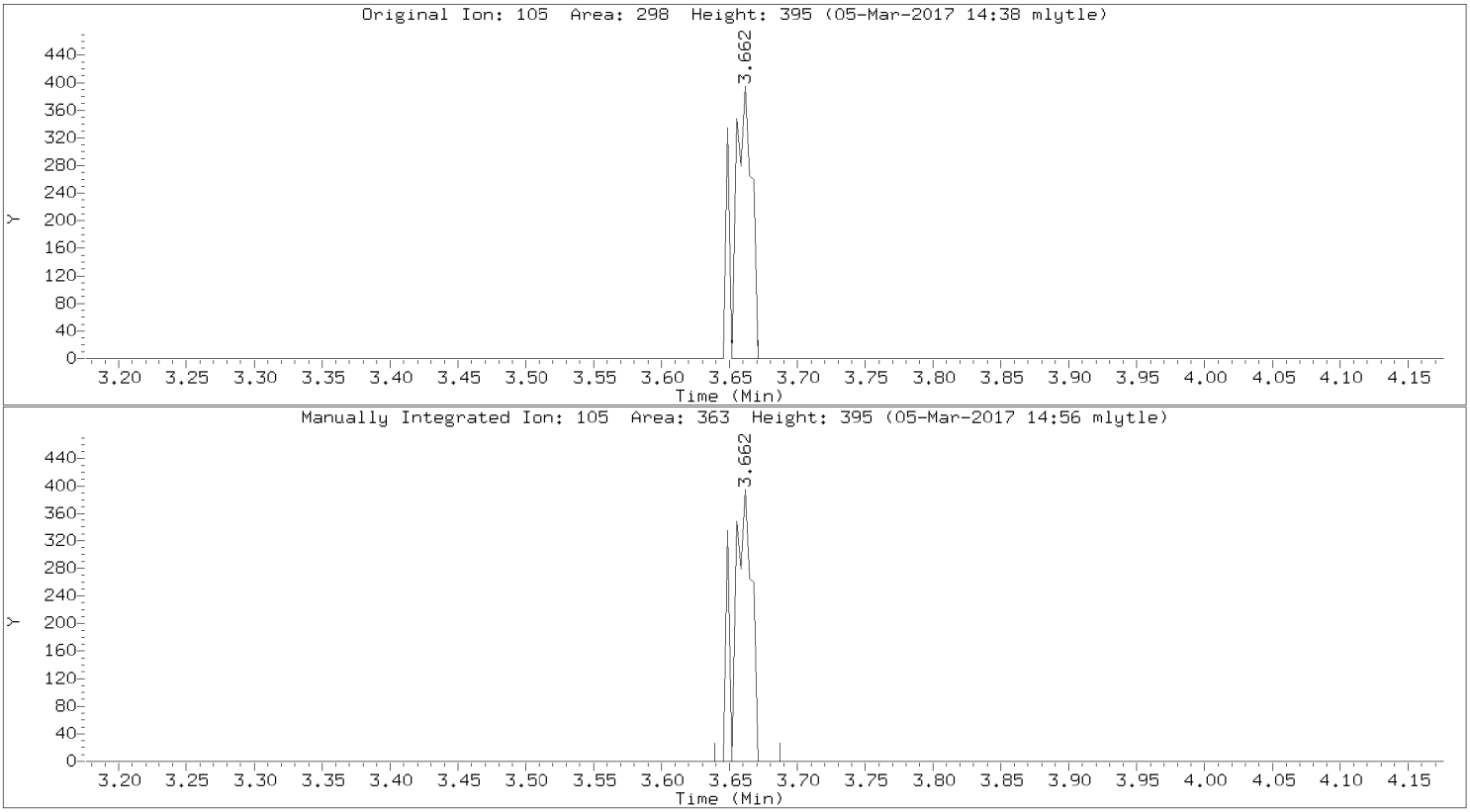






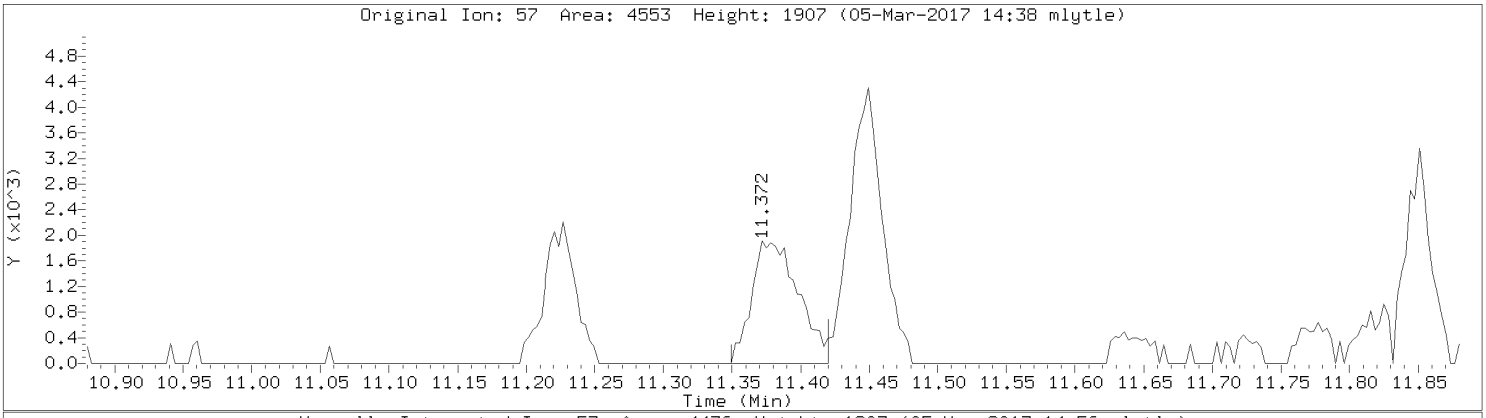


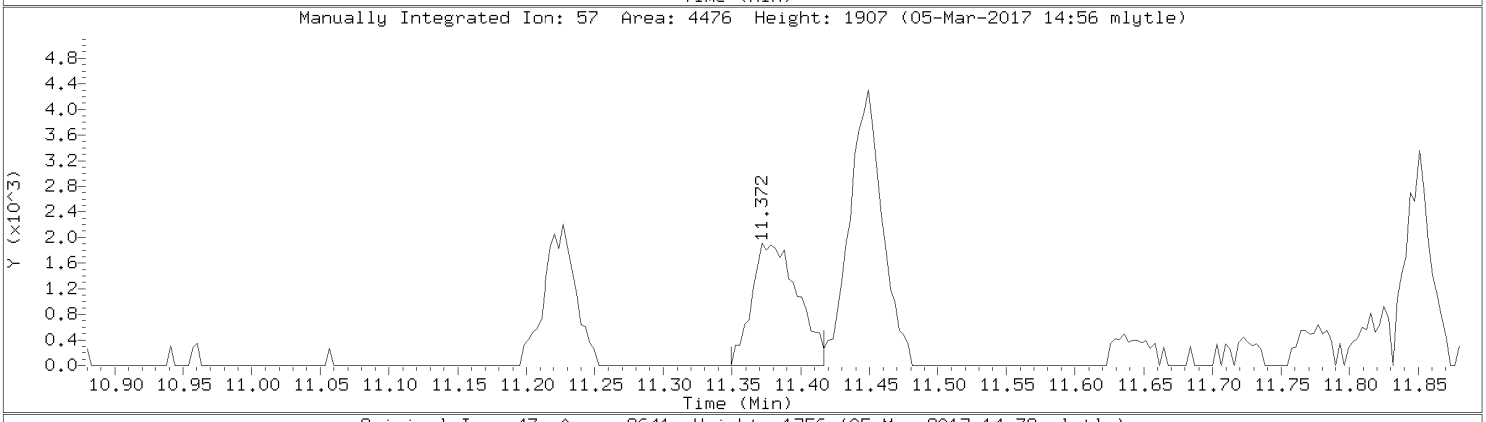
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06317.D
Injection Date: 04-MAR-2017 14:53
Instrument: 10airB.i
Lab Sample ID: 10379929011

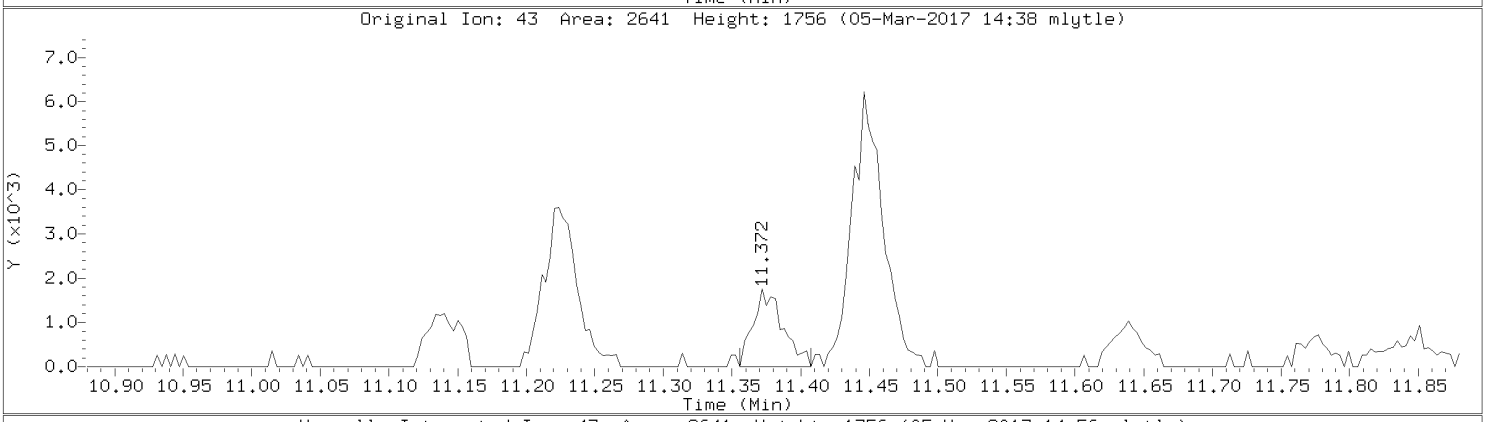


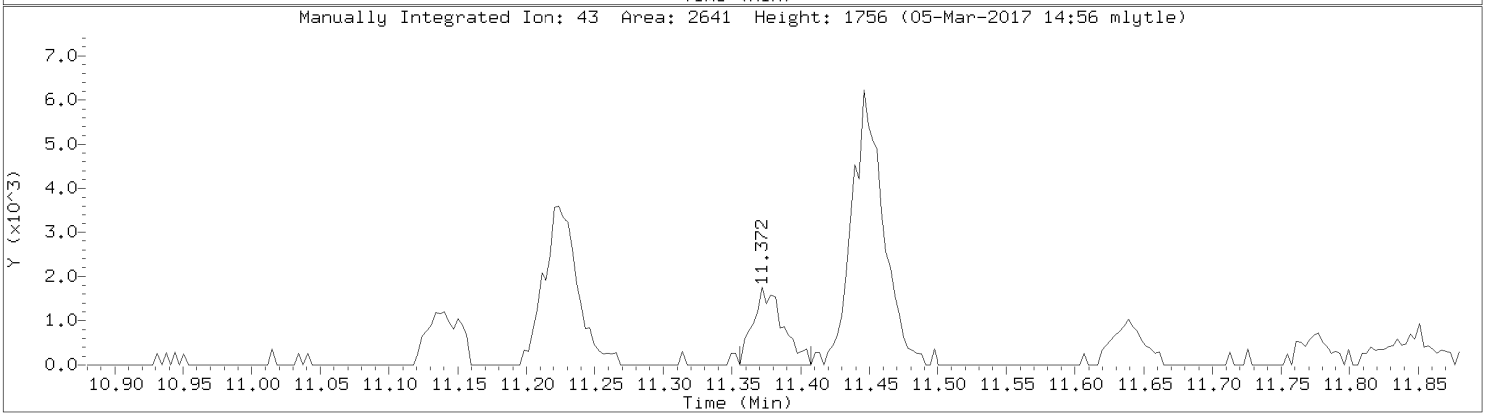
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06317.D
Injection Date: 04-MAR-2017 14:53
Instrument: 10airB.i
Lab Sample ID: 10379929011

Compound: n-Decane
CAS Number: 124-18-5

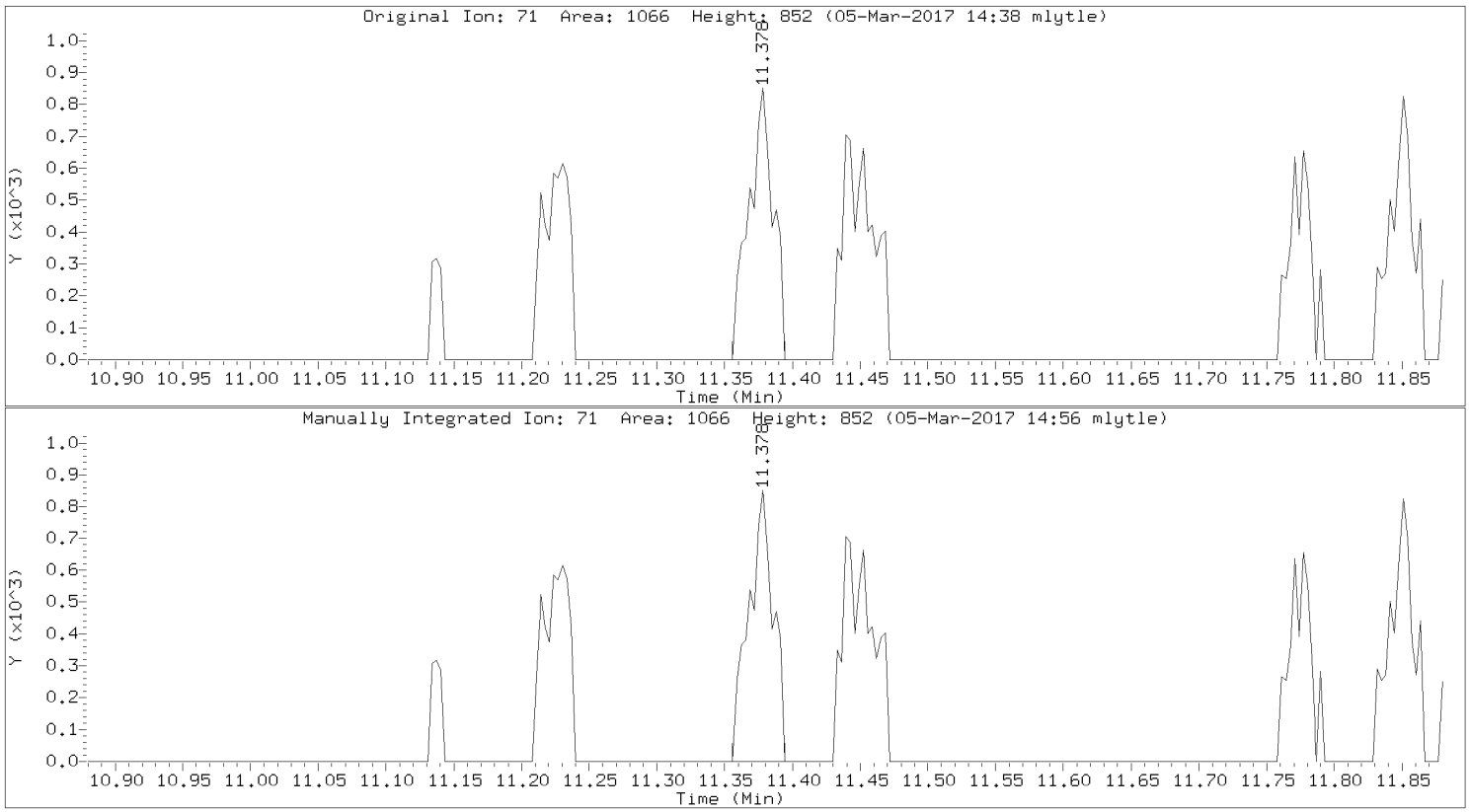








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06317.D
Injection Date: 04-MAR-2017 14:53
Instrument: 10airB.i
Lab Sample ID: 10379929011



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8_5_20170221 **Lab ID: 10379929011** Collected: 02/21/17 14:05 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.7**	ug/m3	4.2	0.40	1.68		03/04/17 14:53	67-63-0	
Styrene	**1.6**	ug/m3	1.5	0.32	1.68		03/04/17 14:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/04/17 14:53	79-34-5	
Tetrachloroethene	**<0.47**	ug/m3	1.2	0.47	1.68		03/04/17 14:53	127-18-4	
Toluene	**0.95J**	ug/m3	1.3	0.26	1.68		03/04/17 14:53	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/04/17 14:53	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/04/17 14:53	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/04/17 14:53	79-00-5	
Trichloroethene	**<0.46**	ug/m3	0.92	0.46	1.68		03/04/17 14:53	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	1.9	0.22	1.68		03/04/17 14:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.51**	ug/m3	2.7	0.51	1.68		03/04/17 14:53	76-13-1	
1,2,4-Trimethylbenzene	**<0.21**	ug/m3	1.7	0.21	1.68		03/04/17 14:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/04/17 14:53	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/04/17 14:53	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/04/17 14:53	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/04/17 14:53	95-47-6	

Sample: VP-8_10_20170221 **Lab ID: 10379929012** Collected: 02/21/17 13:35 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**9.2**	ug/m3	4.1	1.4	1.68		03/04/17 15:25	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/04/17 15:25	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/04/17 15:25	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/04/17 15:25	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/04/17 15:25	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/04/17 15:25	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/04/17 15:25	106-99-0	
2-Butanone (MEK)	**2.0J**	ug/m3	5.0	0.38	1.68		03/04/17 15:25	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/04/17 15:25	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/04/17 15:25	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/04/17 15:25	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/04/17 15:25	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/04/17 15:25	75-00-3	
Chloroform	**<0.32**	ug/m3	0.83	0.32	1.68		03/04/17 15:25	67-66-3	
Chloromethane	**0.44J**	ug/m3	0.71	0.18	1.68		03/04/17 15:25	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/04/17 15:25	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/04/17 15:25	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/04/17 15:25	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/04/17 15:25	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/04/17 15:25	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/04/17 15:25	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/04/17 15:25	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8_10_20170221 **Lab ID: 10379929012** Collected: 02/21/17 13:35 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/04/17 15:25	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.7	0.81	1.68		03/04/17 15:25	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/04/17 15:25	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/04/17 15:25	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/04/17 15:25	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/04/17 15:25	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/04/17 15:25	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/04/17 15:25	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/04/17 15:25	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/04/17 15:25	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/04/17 15:25	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/04/17 15:25	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/04/17 15:25	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/04/17 15:25	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/04/17 15:25	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/04/17 15:25	87-68-3	
n-Hexane	**<0.60**	ug/m3	1.2	0.60	1.68		03/04/17 15:25	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/04/17 15:25	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/04/17 15:25	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/04/17 15:25	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/04/17 15:25	108-87-2	
Methylene Chloride	**5.4J**	ug/m3	5.9	0.91	1.68		03/04/17 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/04/17 15:25	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/04/17 15:25	1634-04-4	
2-Propanol	**1.1J**	ug/m3	4.2	0.40	1.68		03/04/17 15:25	67-63-0	
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/04/17 15:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/04/17 15:25	79-34-5	
Tetrachloroethene	**<0.47**	ug/m3	1.2	0.47	1.68		03/04/17 15:25	127-18-4	
Toluene	**<0.26**	ug/m3	1.3	0.26	1.68		03/04/17 15:25	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/04/17 15:25	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/04/17 15:25	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/04/17 15:25	79-00-5	
Trichloroethene	**0.76J**	ug/m3	0.92	0.46	1.68		03/04/17 15:25	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	1.9	0.22	1.68		03/04/17 15:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.51**	ug/m3	2.7	0.51	1.68		03/04/17 15:25	76-13-1	
1,2,4-Trimethylbenzene	**<0.21**	ug/m3	1.7	0.21	1.68		03/04/17 15:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/04/17 15:25	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/04/17 15:25	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/04/17 15:25	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/04/17 15:25	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D
Report Date: 05-Mar-2017 15:02

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06318.D
Lab Smp Id: 10379929012
Inj Date : 04-MAR-2017 15:25
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 18
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.018	3.018	(0.539)	82783	10.7439	18.0(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.063	3.060	(0.547)	12194	0.24986	0.420	
6	Chloromethane	50	3.156	3.156	(0.564)	1886	0.12490	0.210	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.552	3.545	(0.634)	8355	1.73012	2.91	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.664	3.674	(0.654)	5132	0.14243	0.239	
17	Acrolein	56	3.677	3.684	(0.657)	1002	0.39858	0.670(Q)	
18	Acetone	43	3.722	3.722	(0.665)	47156	2.26137	3.80	
19	Isopropyl Alcohol	45	3.780	3.767	(0.675)	5655	0.26590	0.447	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D
Report Date: 05-Mar-2017 15:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	4.005	(0.712)	13337	0.90616	1.52	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.391	(0.792)	5346	0.33439	0.562	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.801)	413538	9.88998	9.89	
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.814)	2010	0.39401	0.662(Q)	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1314267	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.976	5.989	(1.067)	1840	0.08333	0.140	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1125225	9.56576	9.57	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.571	7.584	(0.876)	4389	0.15128	0.254(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	848214	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D
Report Date: 05-Mar-2017 15:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.375	11.378	(2.031)	1573	0.28275	0.475	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	467819	10.0121	10.0	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.156	(1.641)	4921	0.47947	0.806	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D
Report Date: 05-Mar-2017 15:02

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06318.D
Lab Smp Id: 10379929012
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

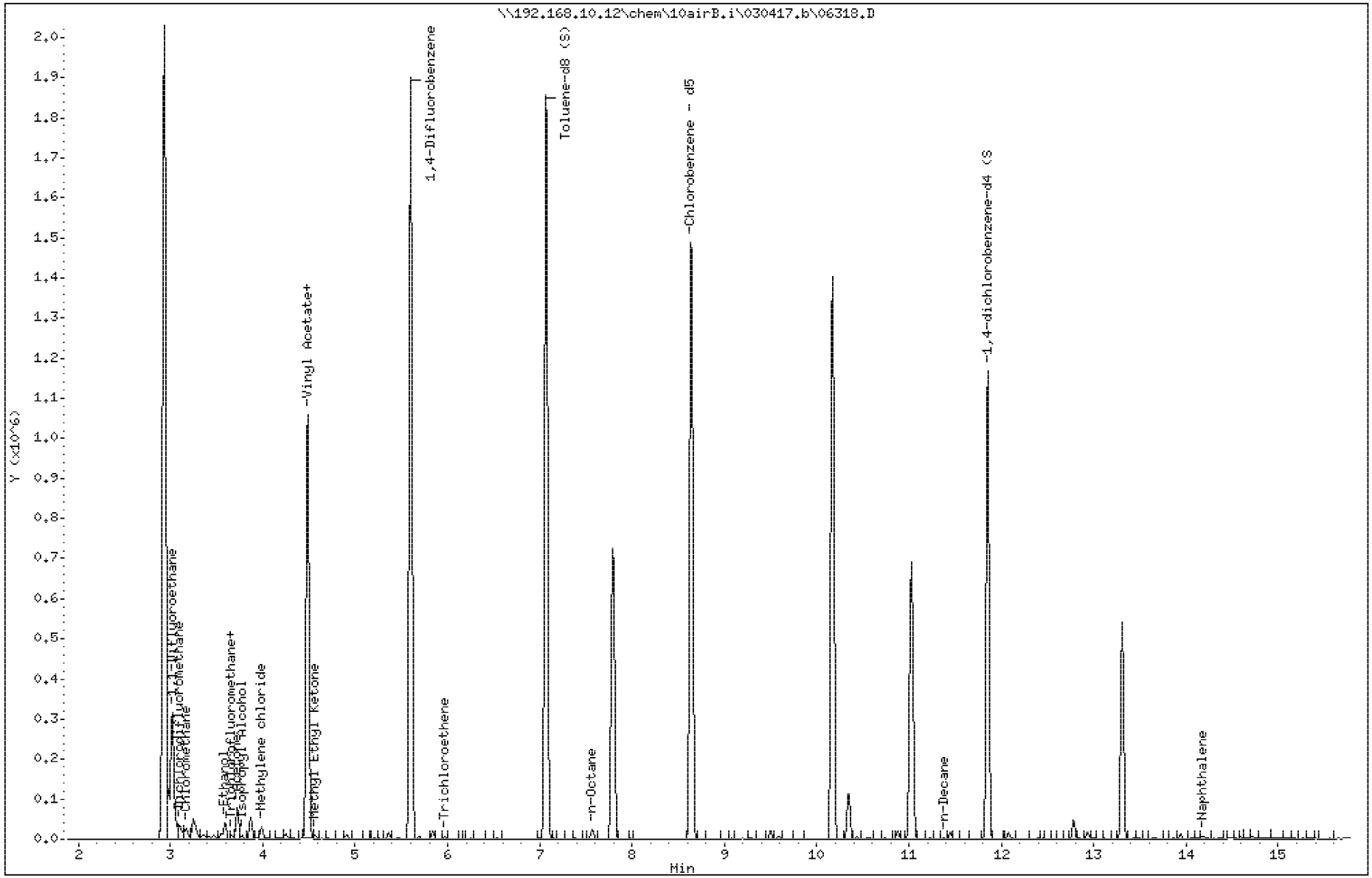
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1314267	-7.06
67 Chlorobenzene - d	951026	570616	1331436	848214	-10.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D
Date : 04-MAR-2017 15:25
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

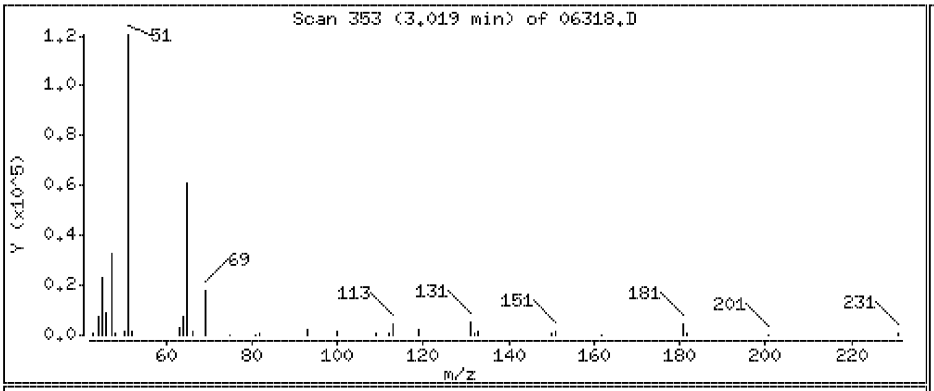
Operator: MJL

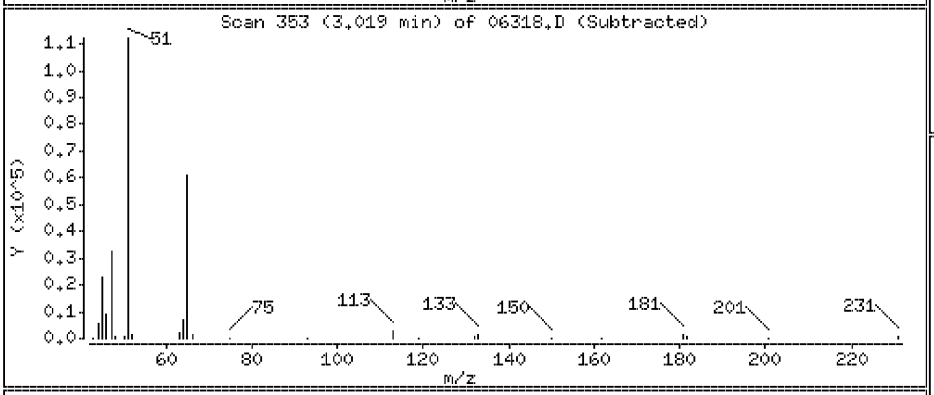
Column phase: J&W DB-5

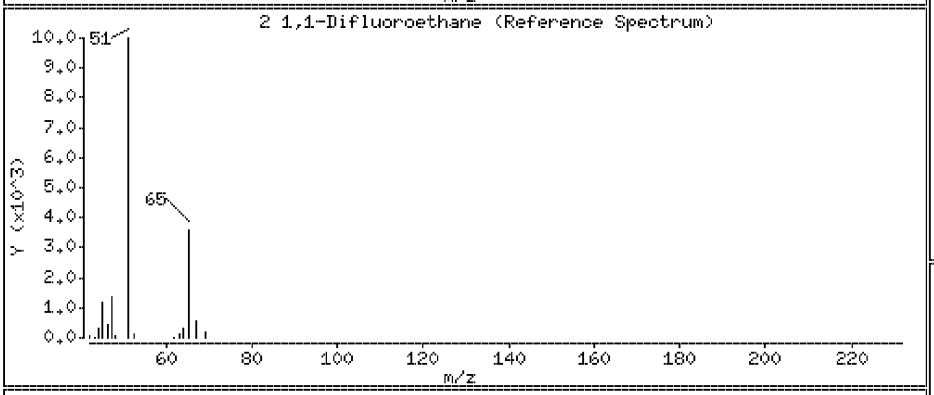
Column diameter: 0.32

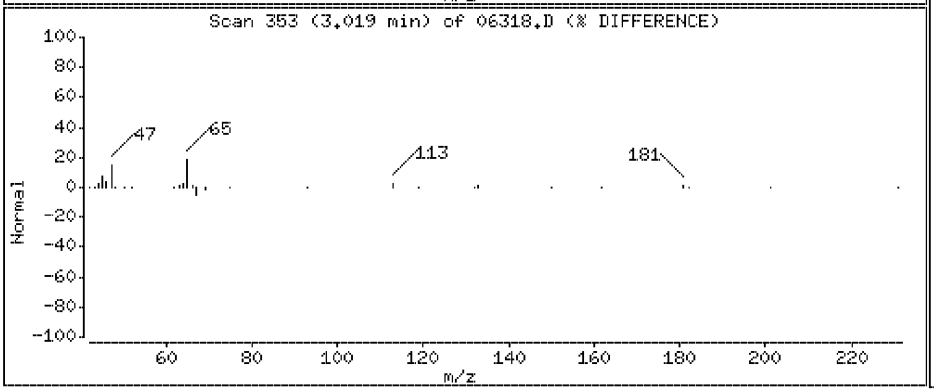
2 1,1-Difluoroethane

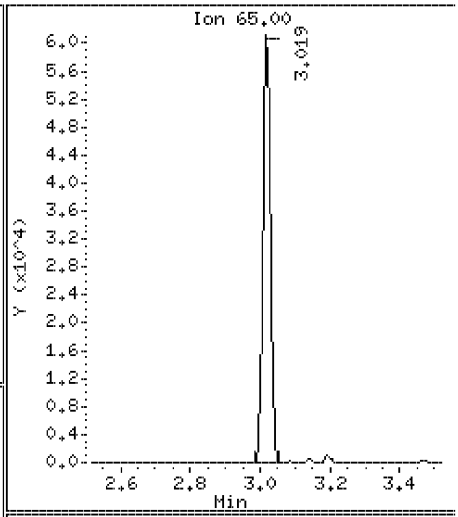
Concentration: 18.0 ppbv

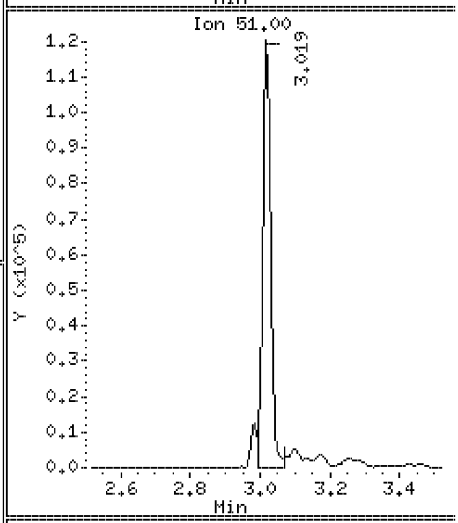


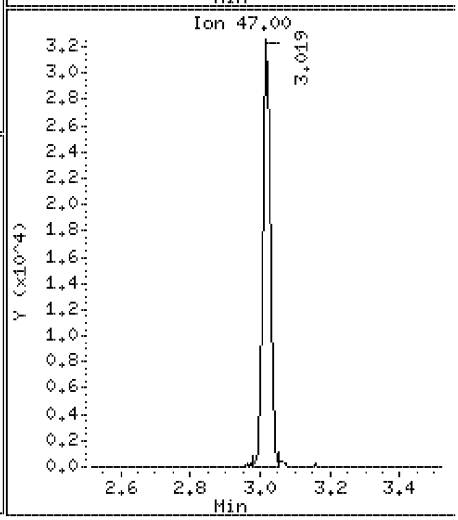












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

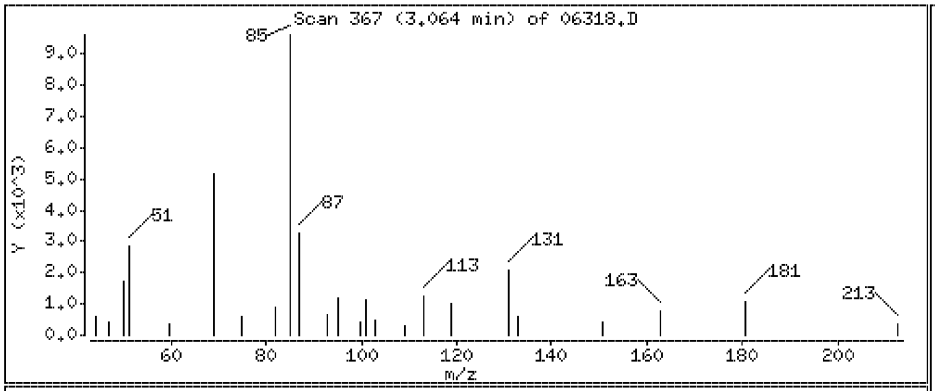
Operator: MJL

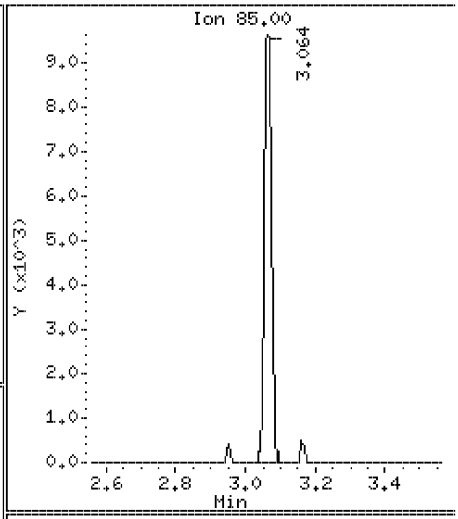
Column phase: J&W DB-5

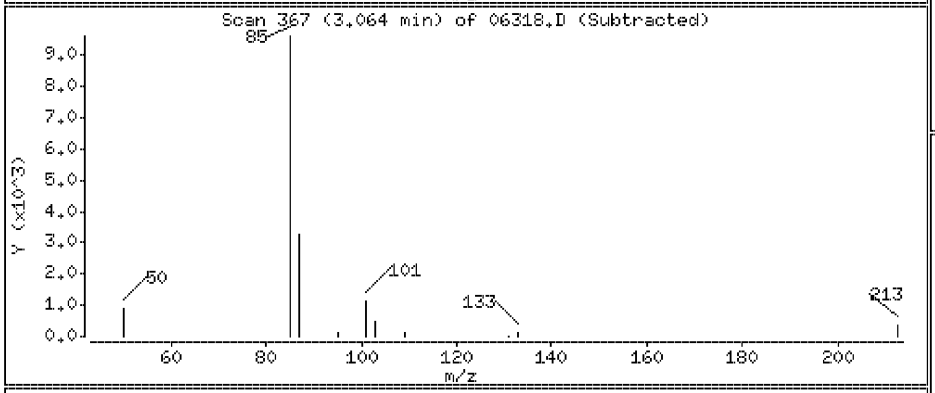
Column diameter: 0.32

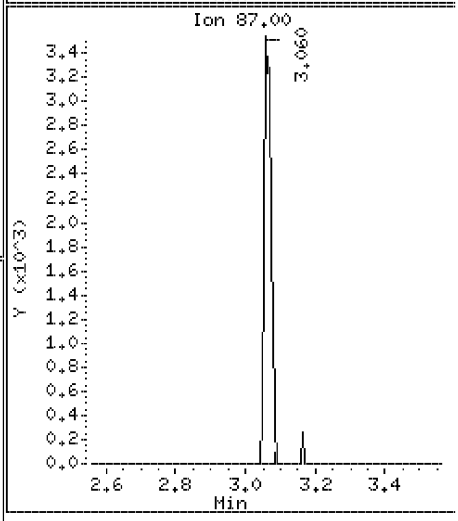
5 Dichlorodifluoromethane

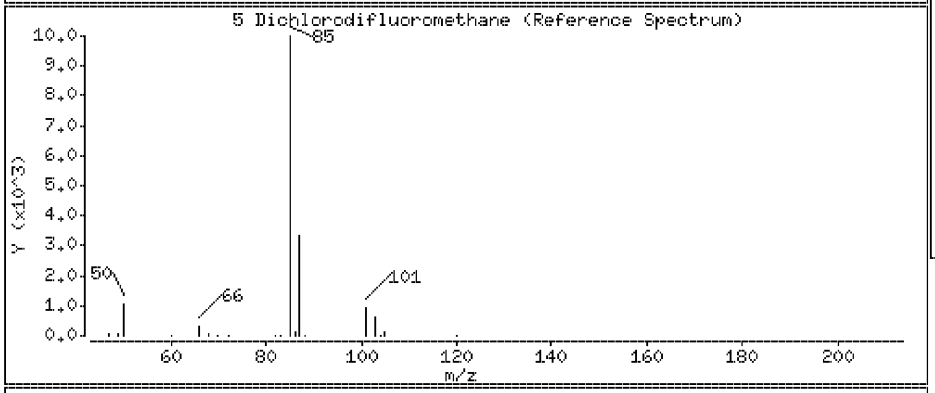
Concentration: 0.420 ppbv

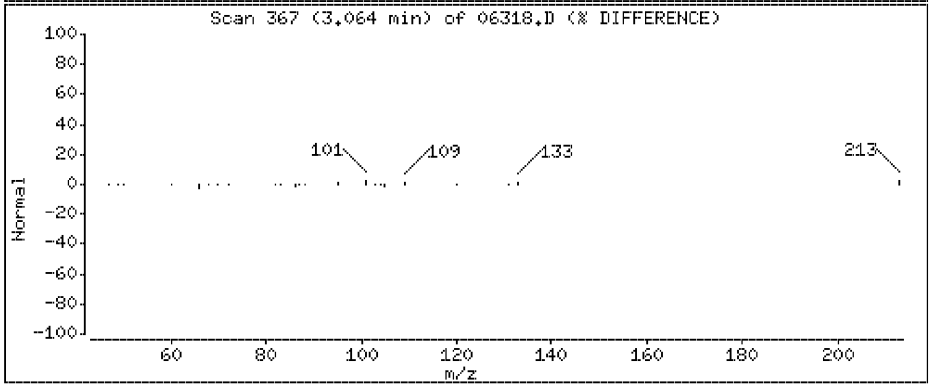












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

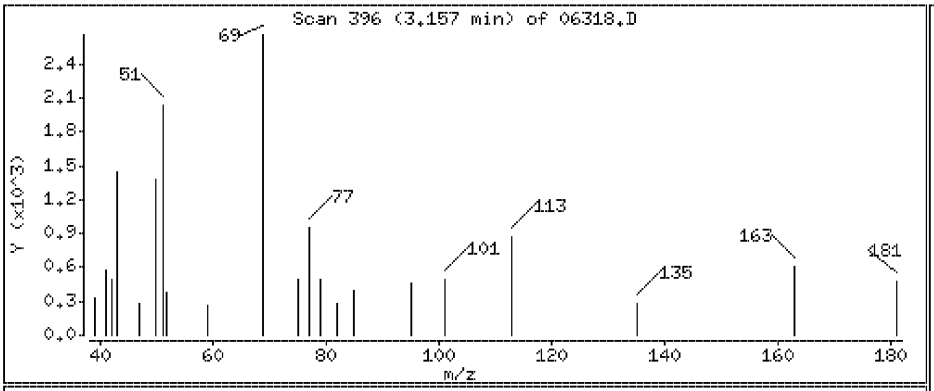
Operator: MJL

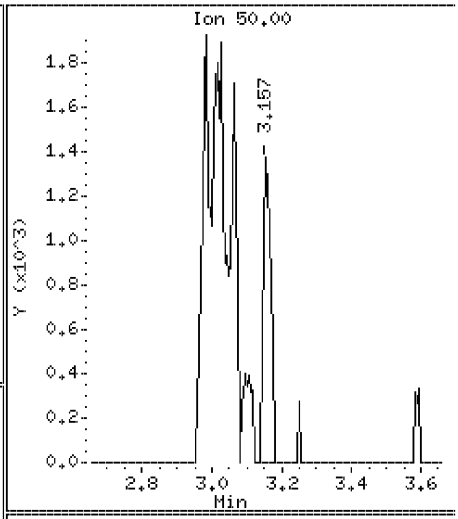
Column phase: J&W DB-5

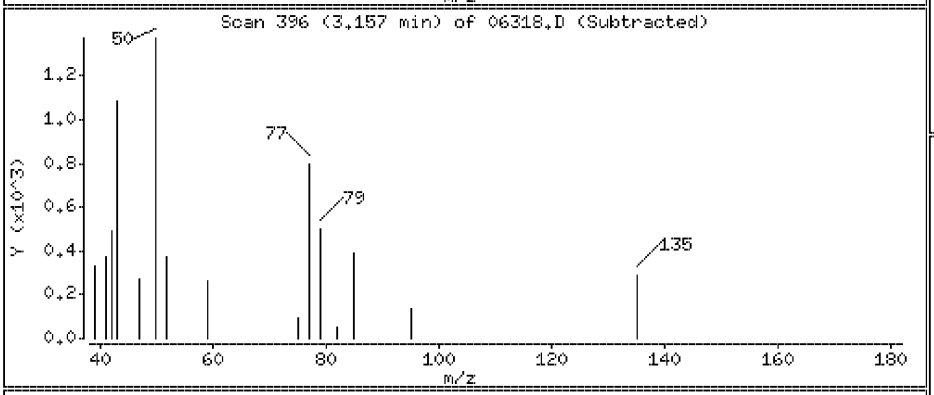
Column diameter: 0.32

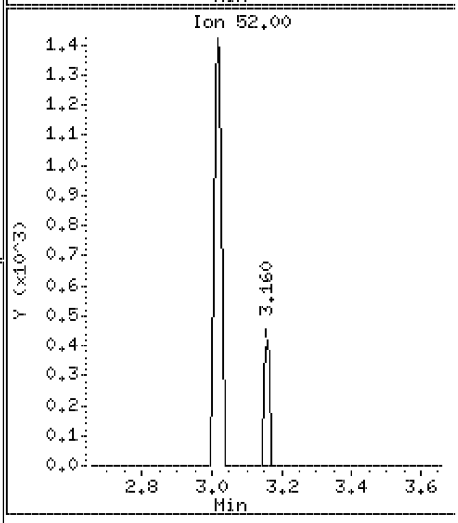
6 Chloromethane

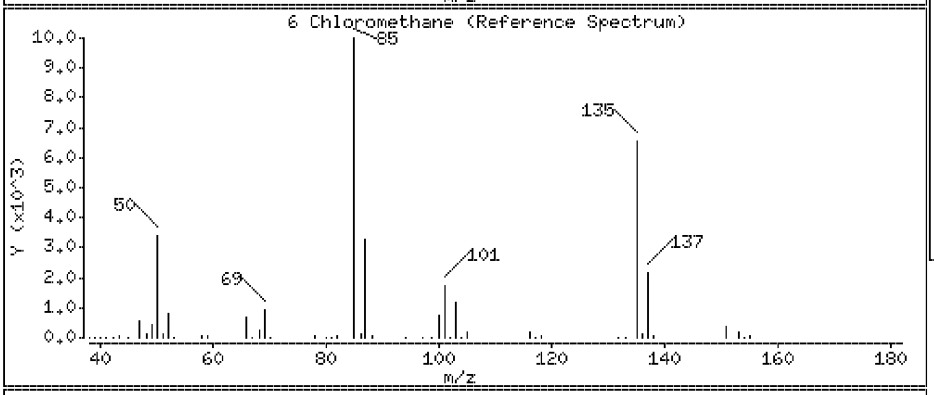
Concentration: 0.210 ppbv

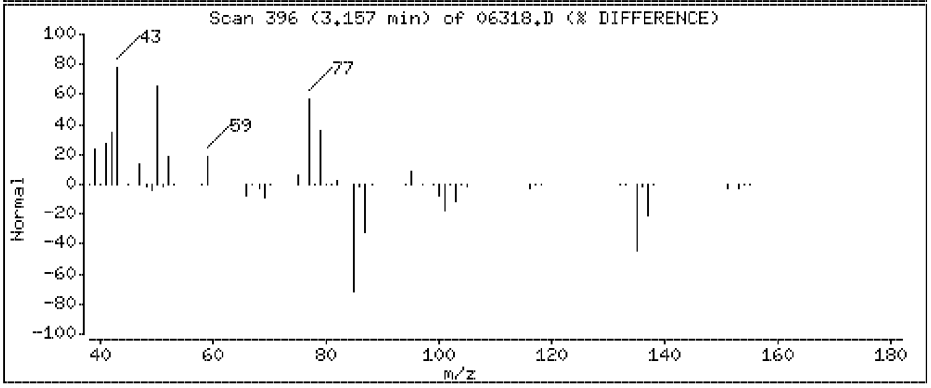












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

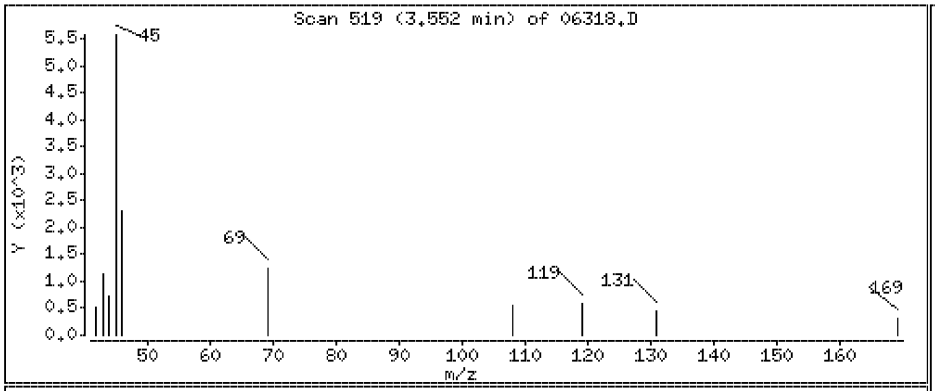
Operator: MJL

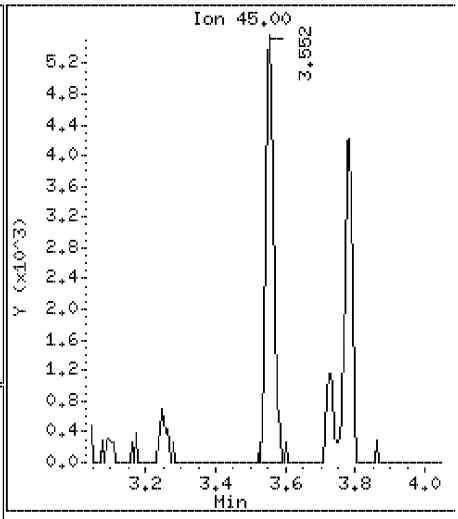
Column phase: J&W DB-5

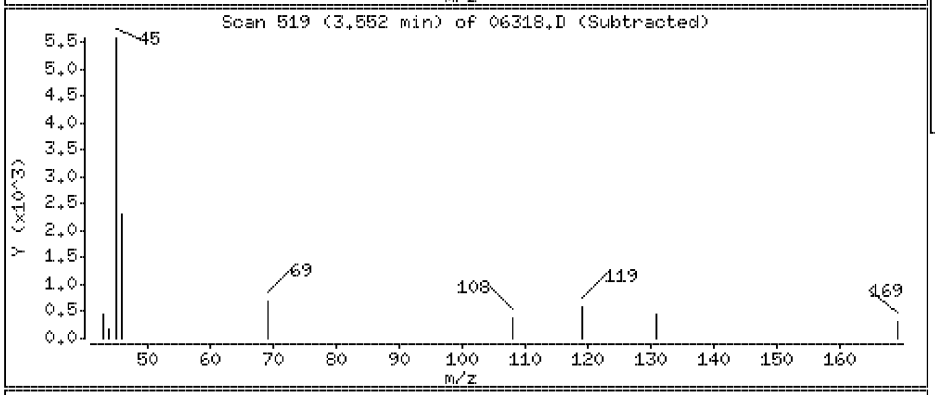
Column diameter: 0.32

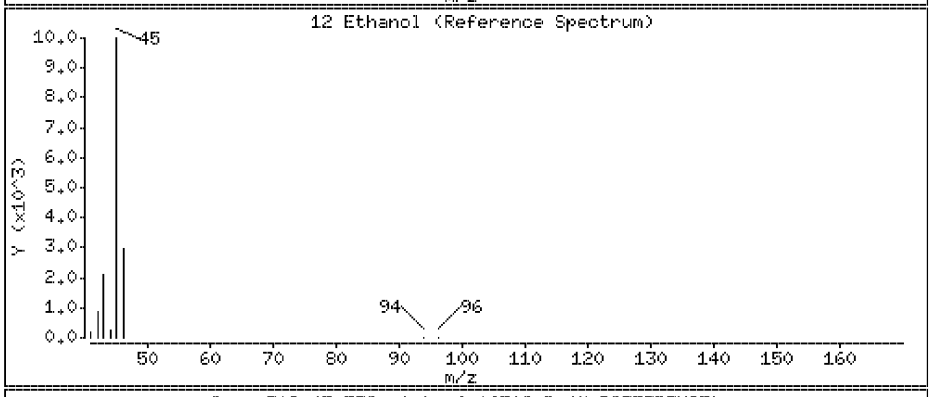
12 Ethanol

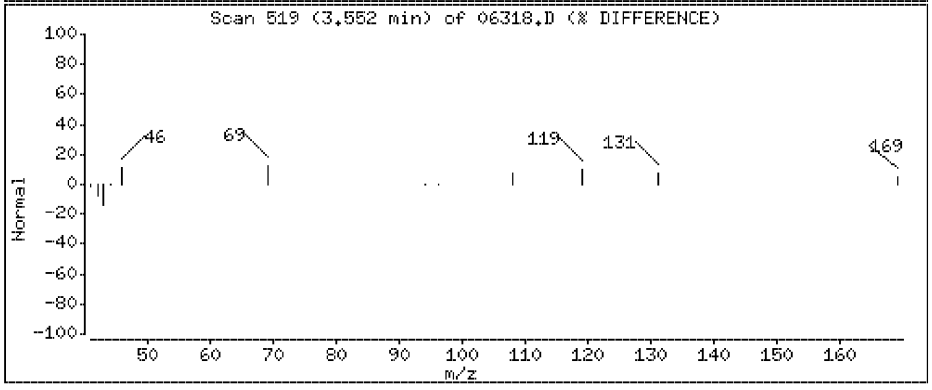
Concentration: 2.91 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

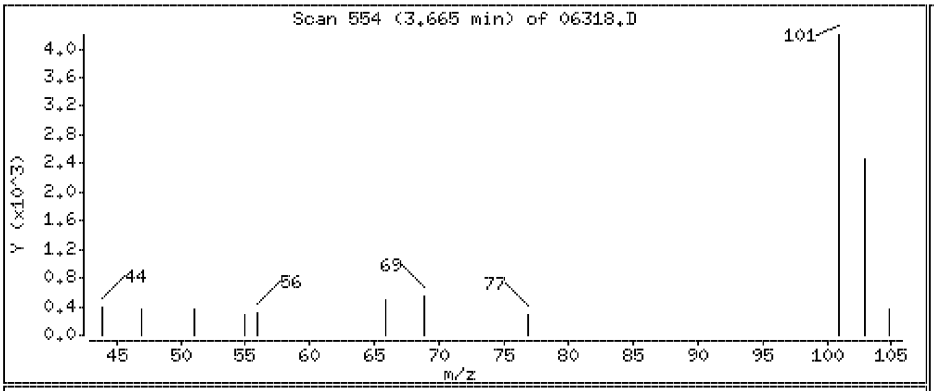
Operator: MJL

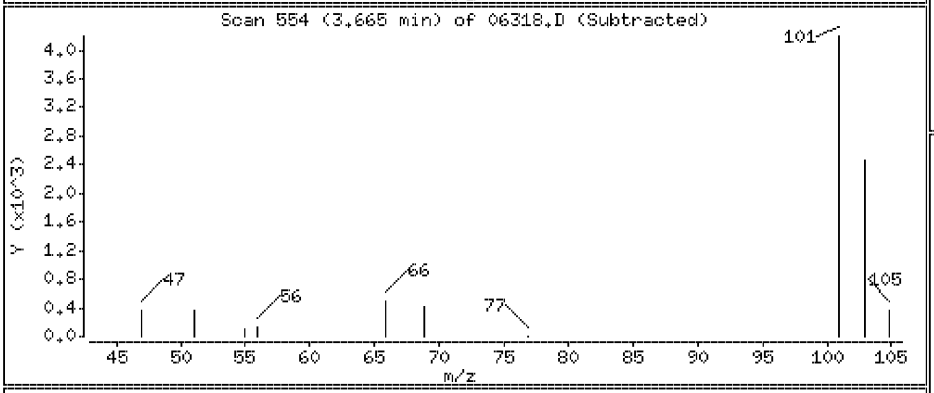
Column phase: J&W DB-5

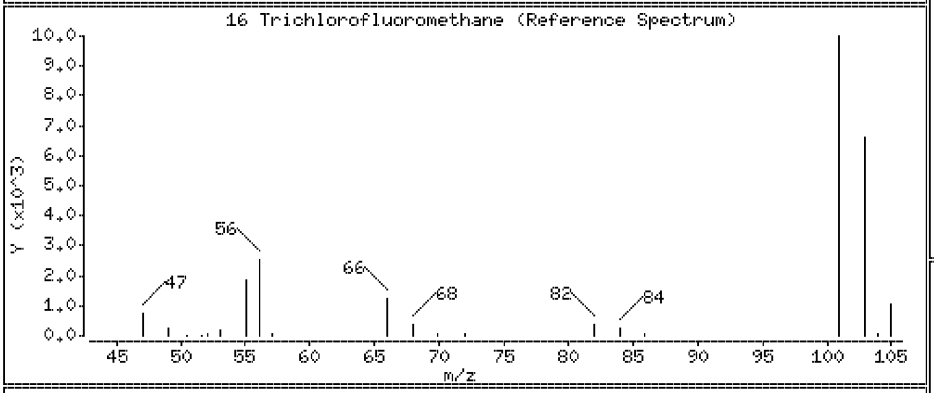
Column diameter: 0.32

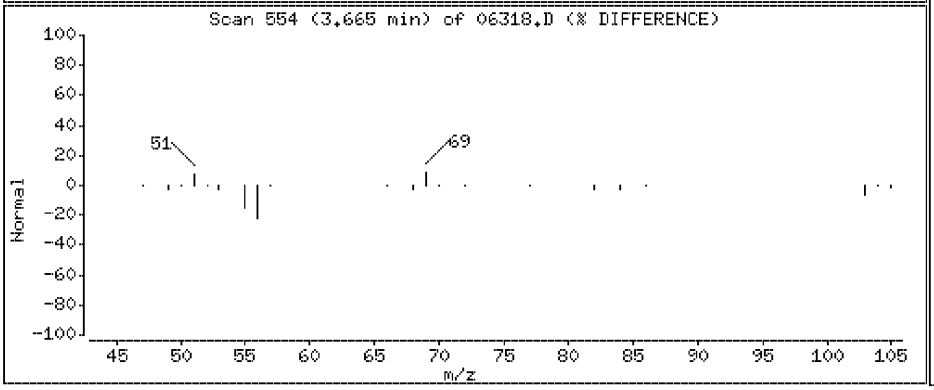
16 Trichlorofluoromethane

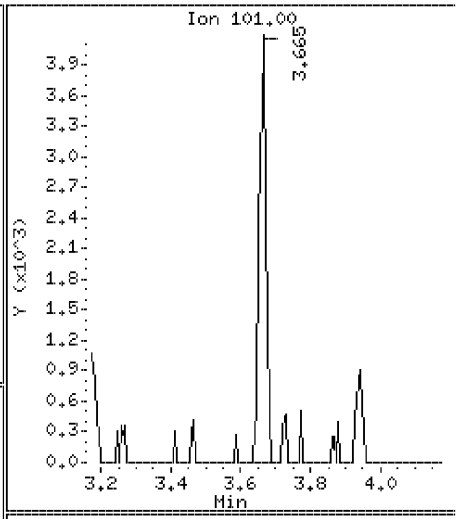
Concentration: 0.239 ppbv

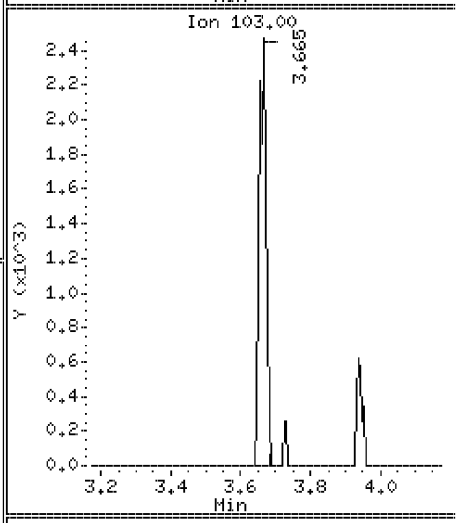


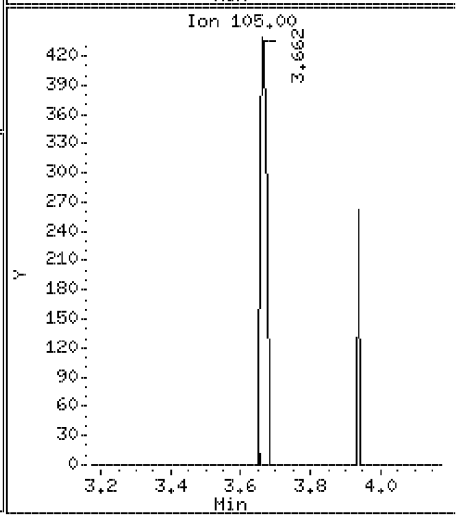












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

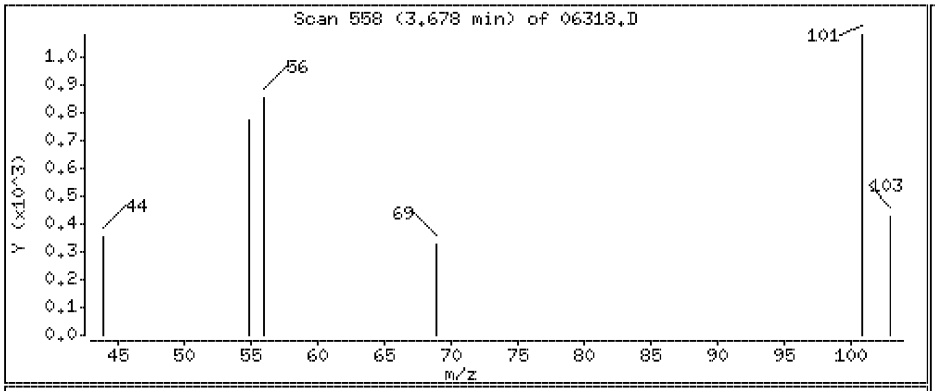
Operator: MJL

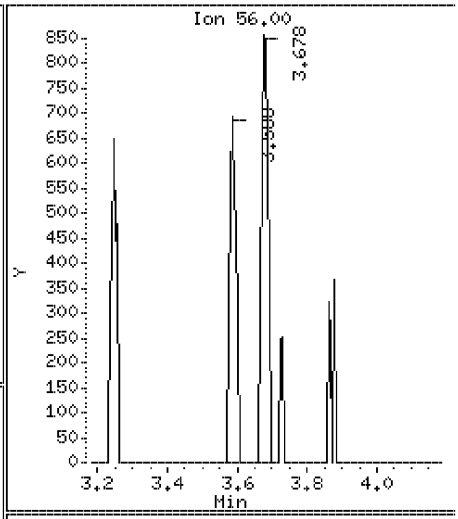
Column phase: J&W DB-5

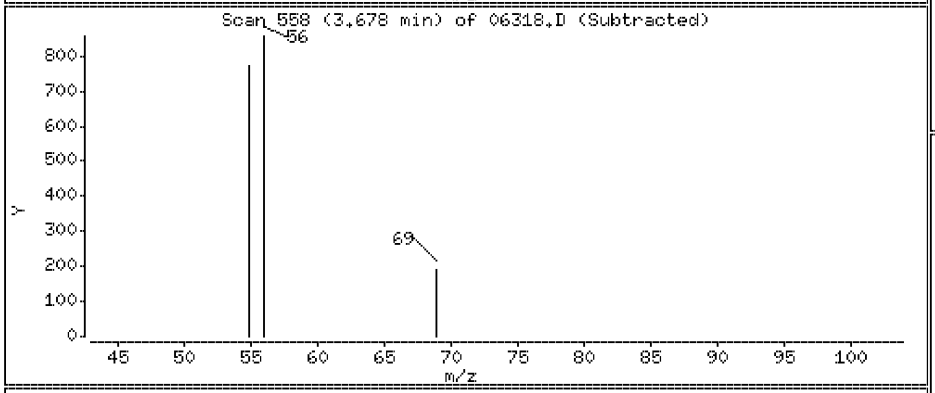
Column diameter: 0.32

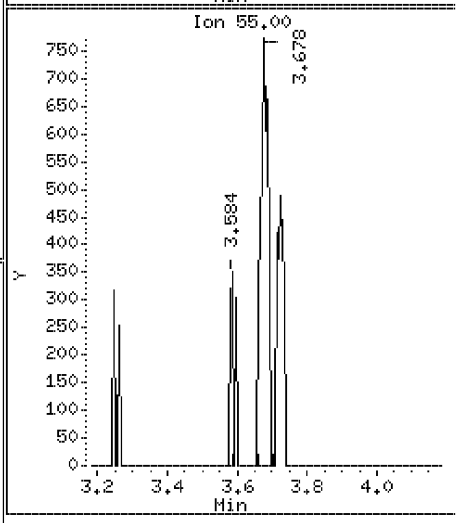
17 Acrolein

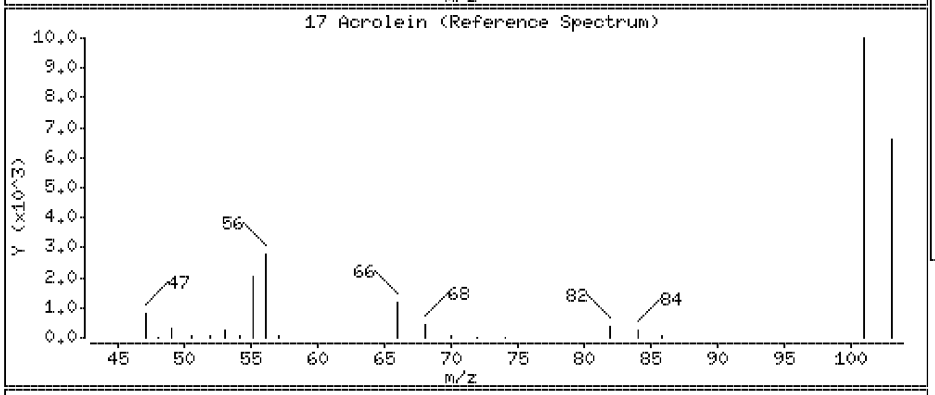
Concentration: 0.670 ppbv

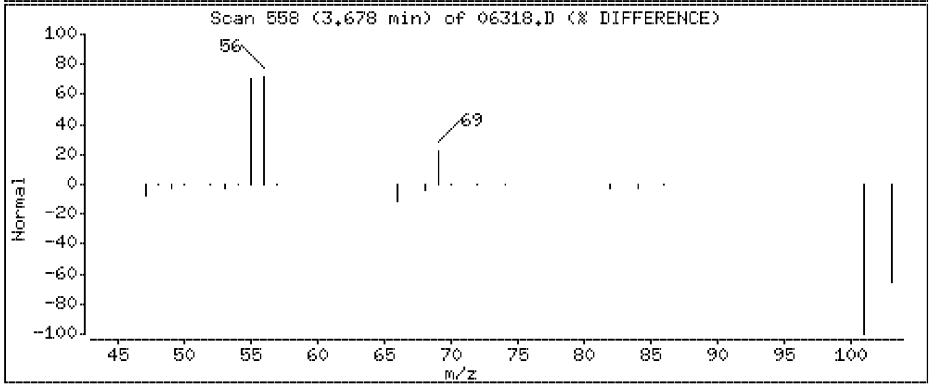












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

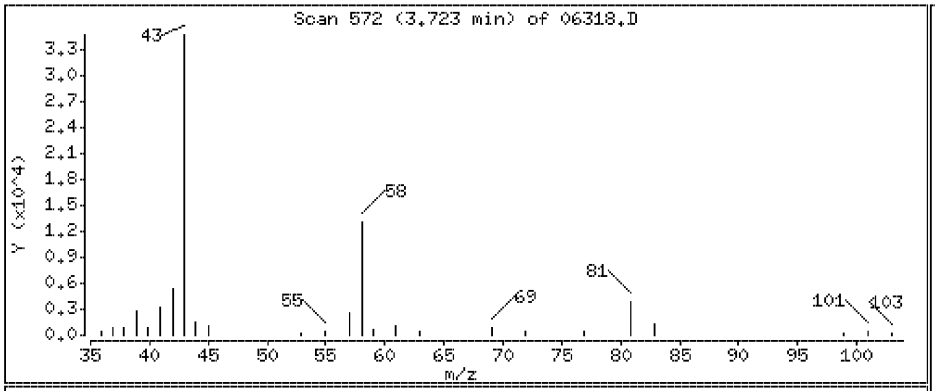
Operator: MJL

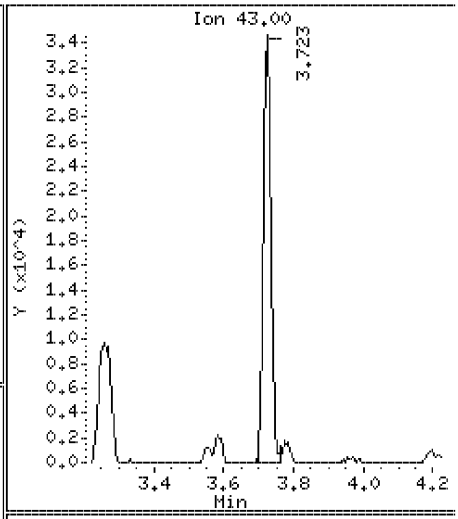
Column phase: J&W DB-5

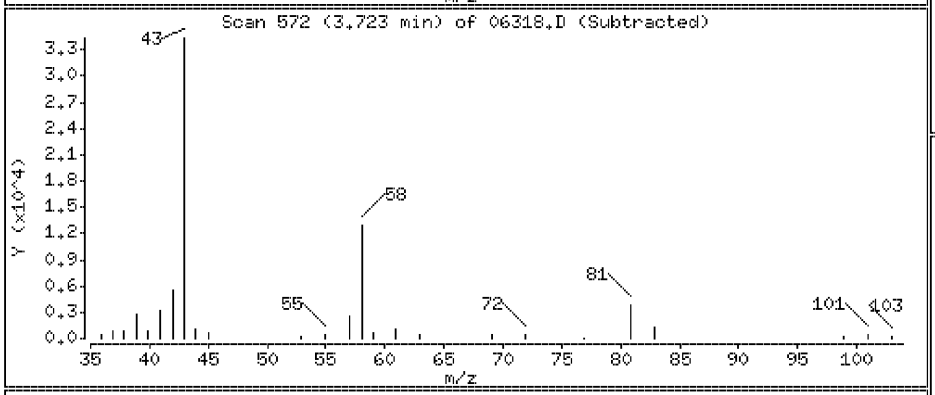
Column diameter: 0.32

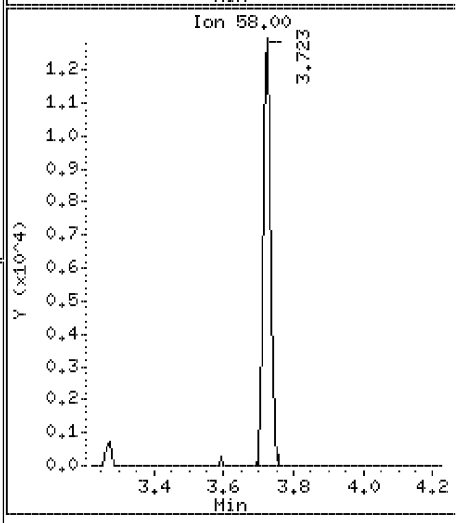
18 Acetone

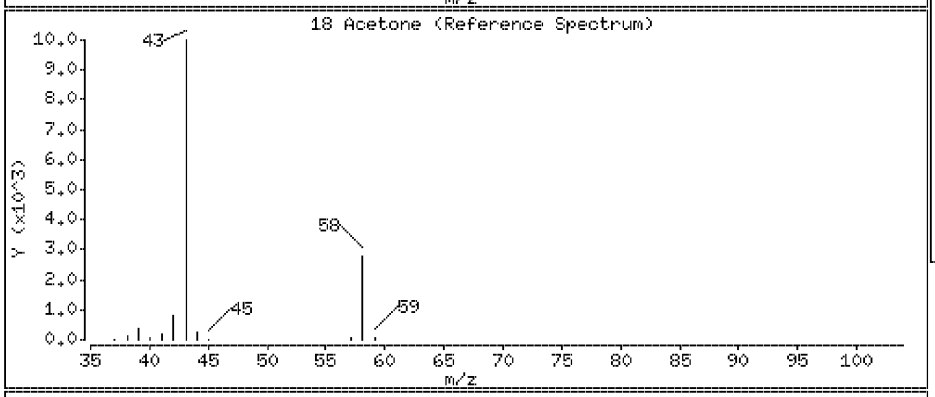
Concentration: 3.80 ppbv

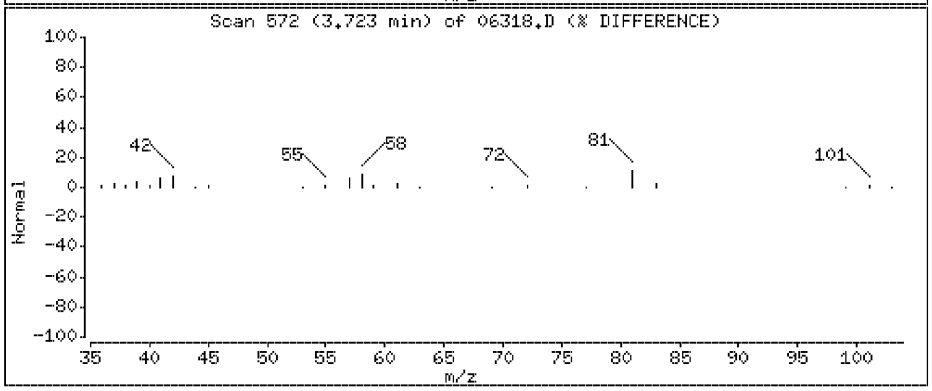












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

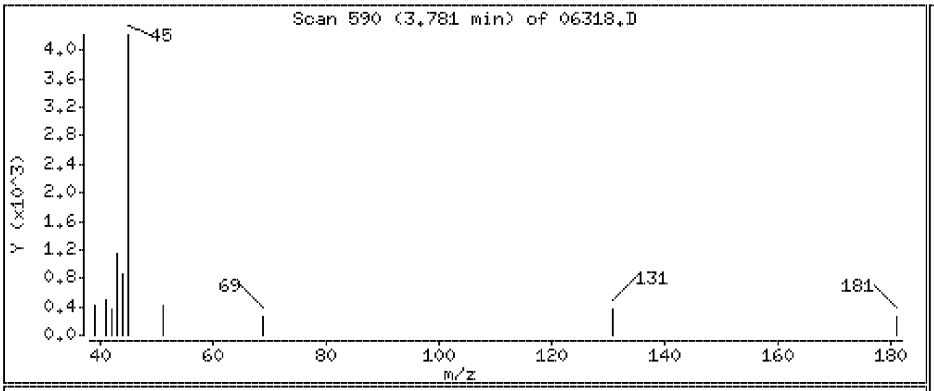
Operator: MJL

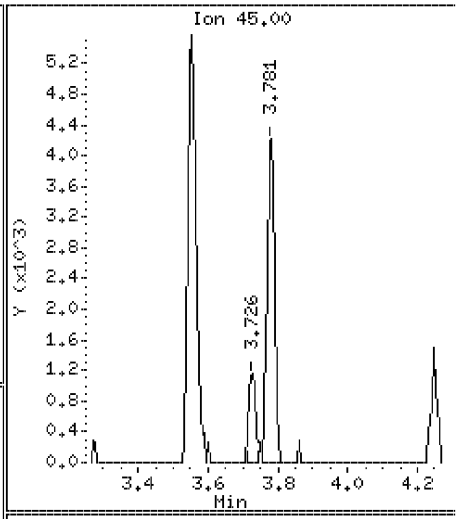
Column phase: J&W DB-5

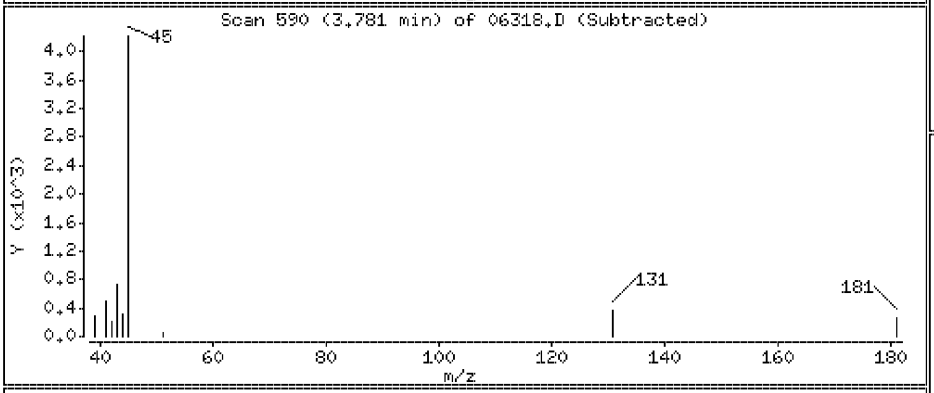
Column diameter: 0.32

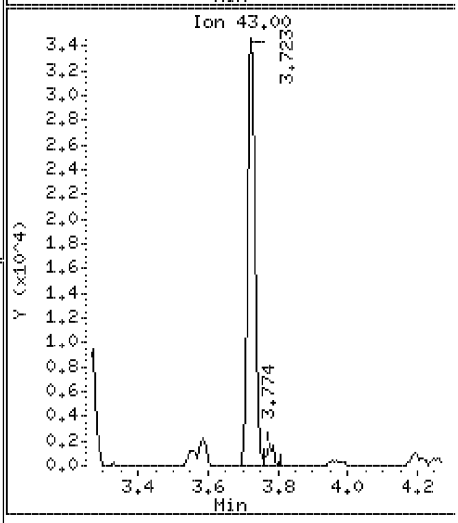
19 Isopropyl Alcohol

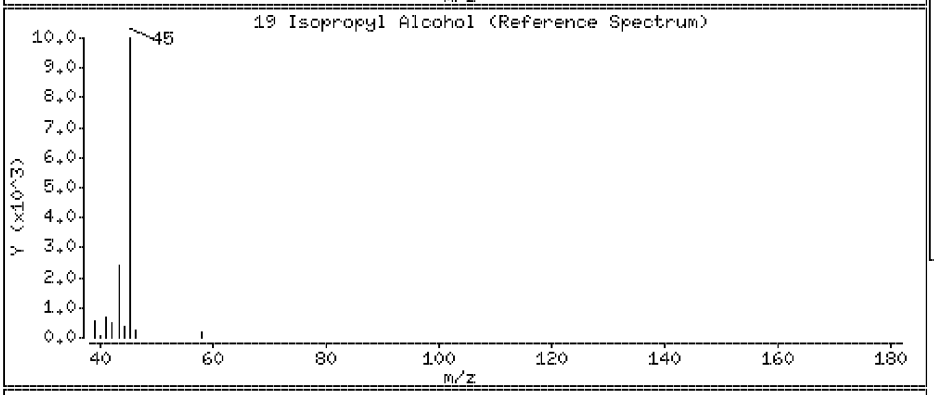
Concentration: 0.447 ppbv

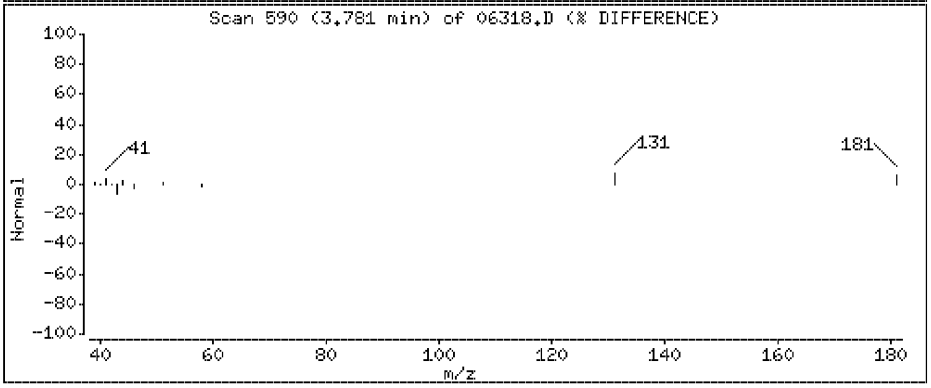












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

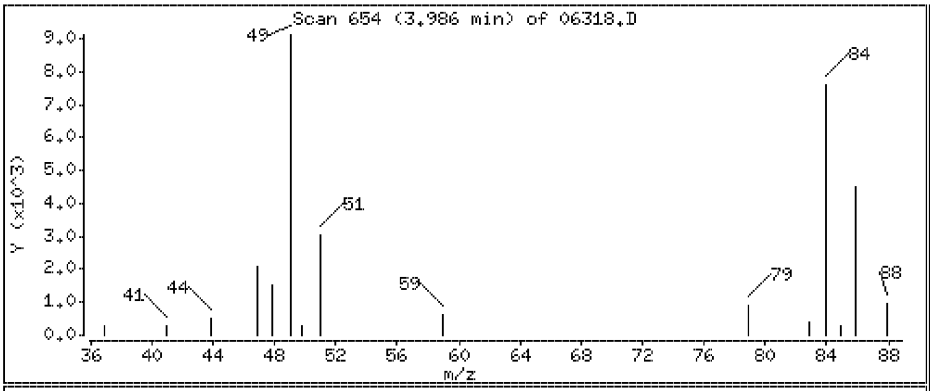
Operator: MJL

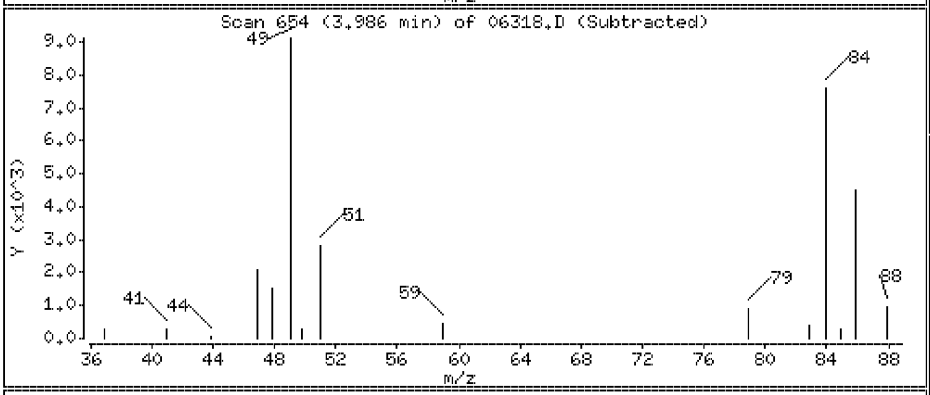
Column phase: J&W DB-5

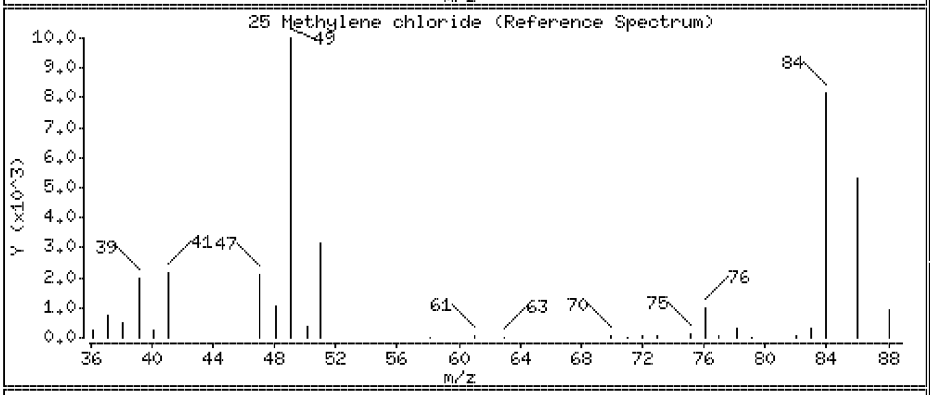
Column diameter: 0.32

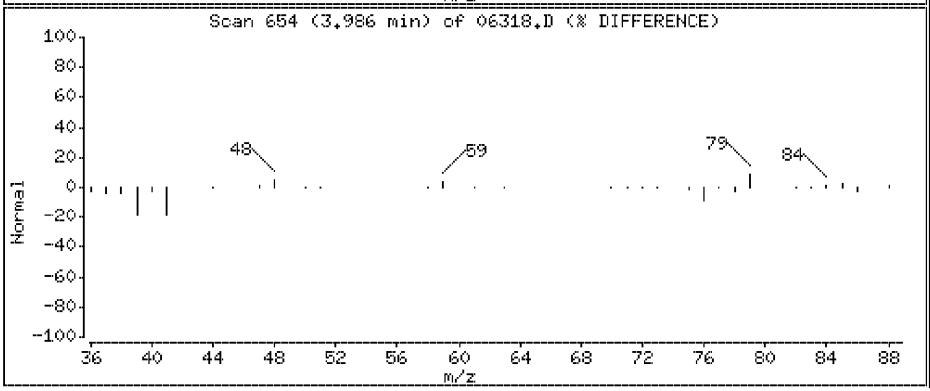
25 Methylene chloride

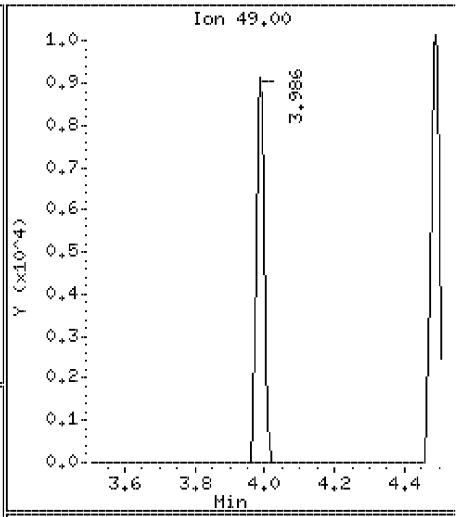
Concentration: 1.52 ppbv

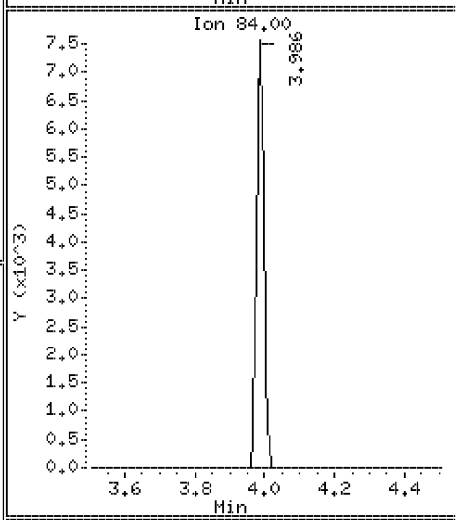


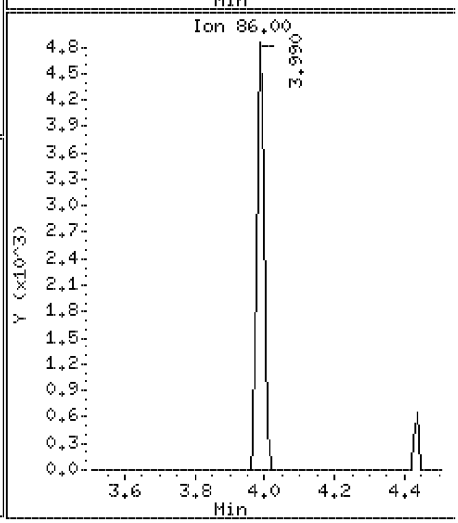












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

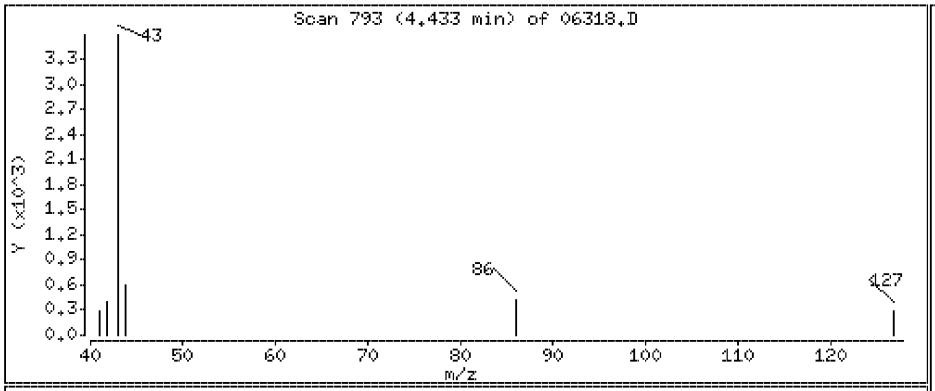
Operator: MJL

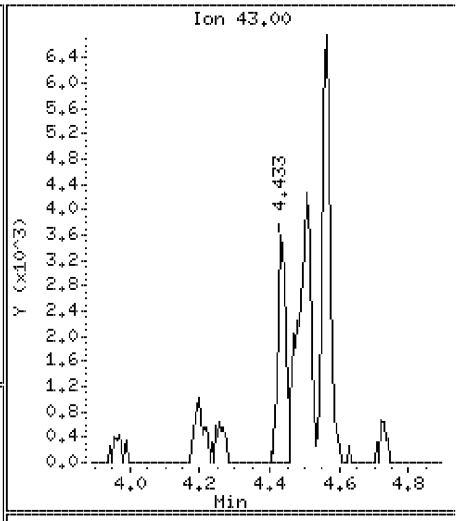
Column phase: J&W DB-5

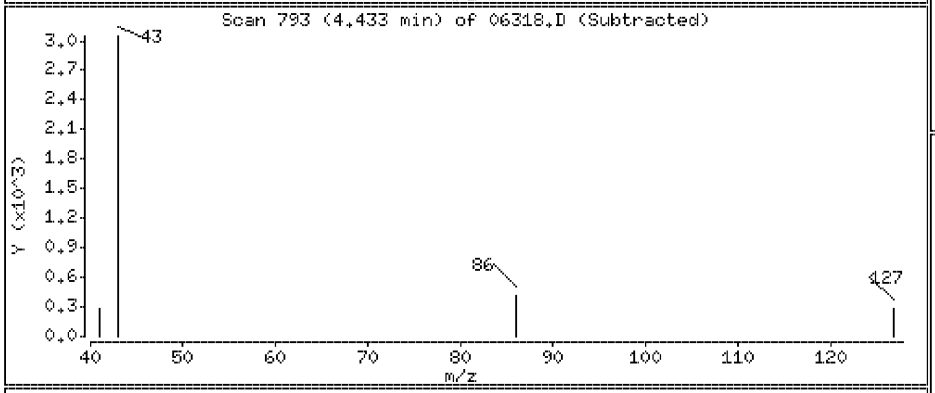
Column diameter: 0.32

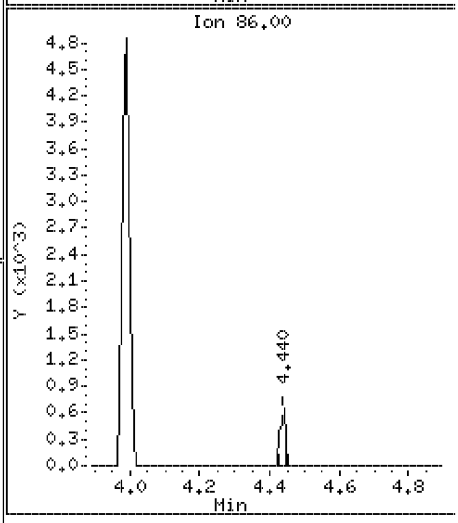
30 Vinyl Acetate

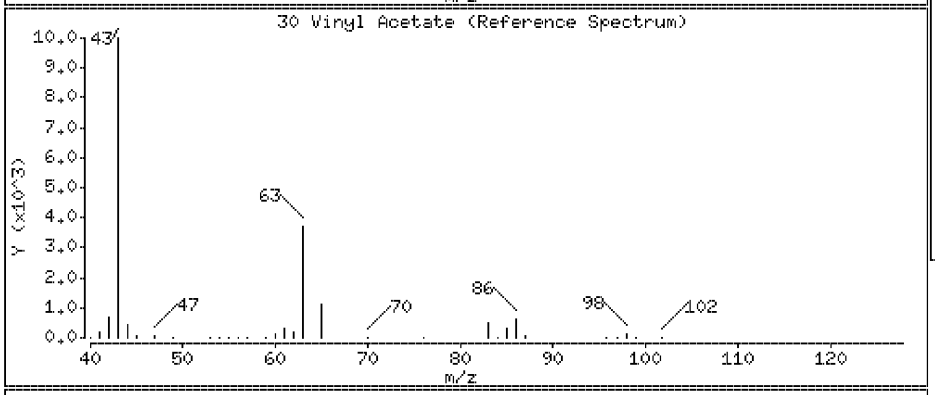
Concentration: 0.562 ppbv

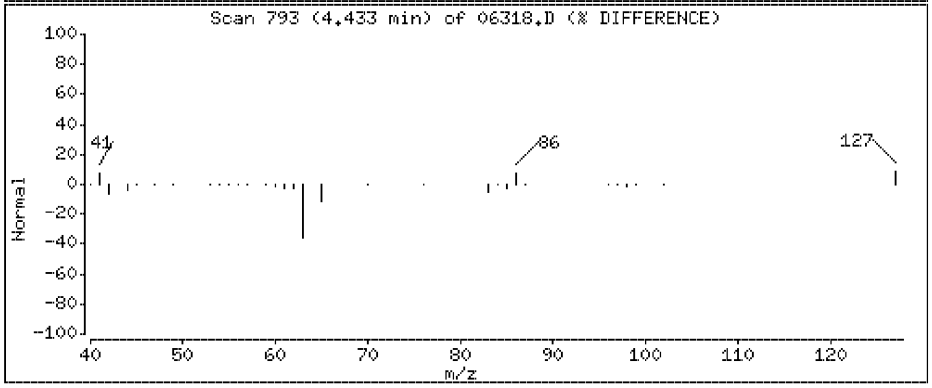












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

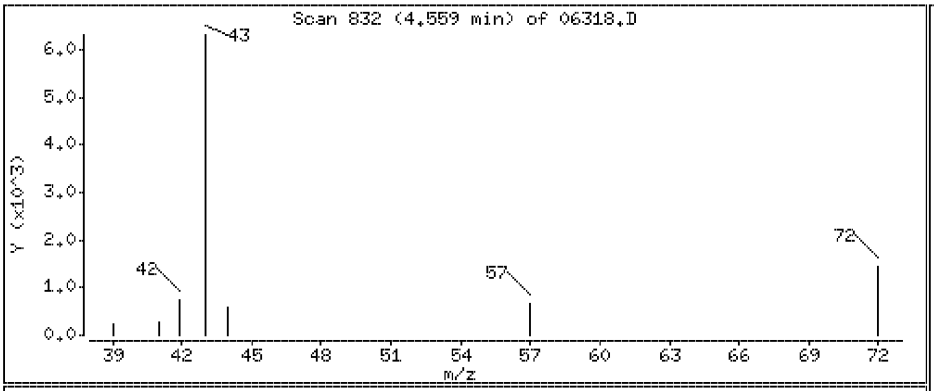
Operator: MJL

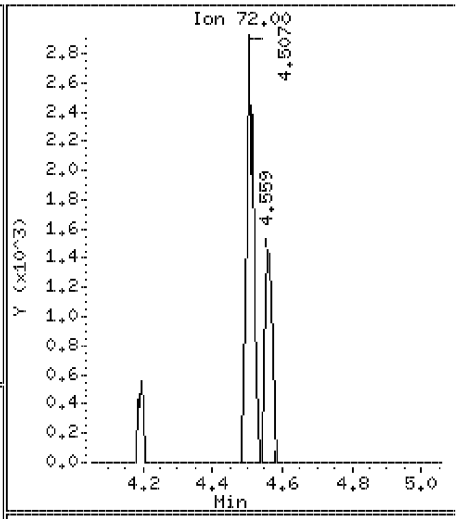
Column phase: J&W DB-5

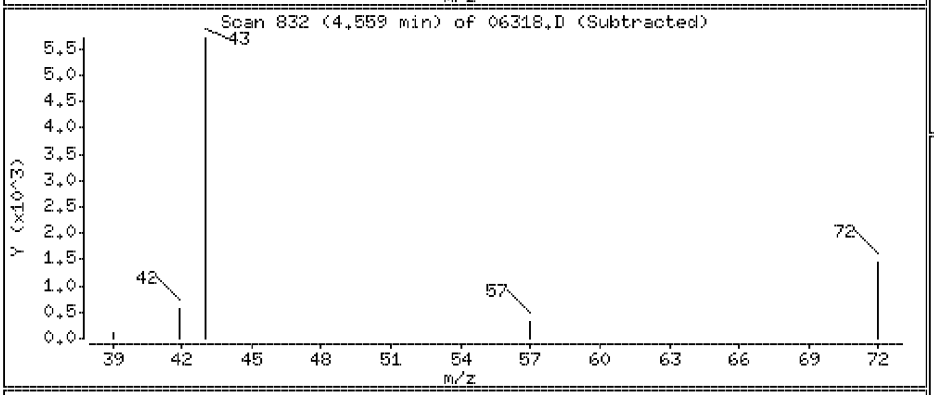
Column diameter: 0.32

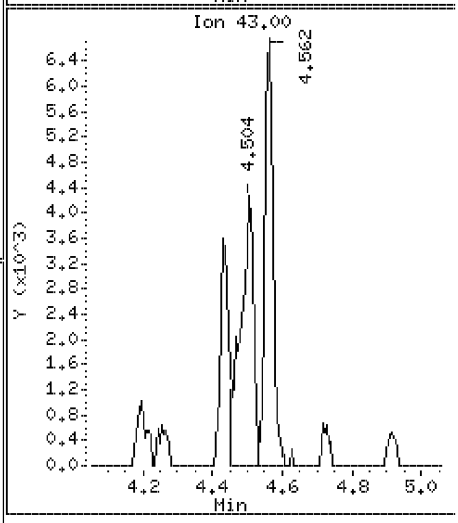
33 Methyl Ethyl Ketone

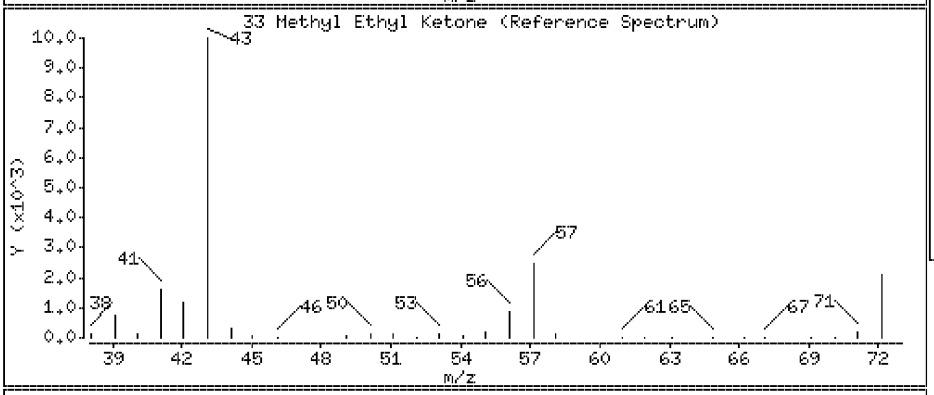
Concentration: 0.662 ppbv

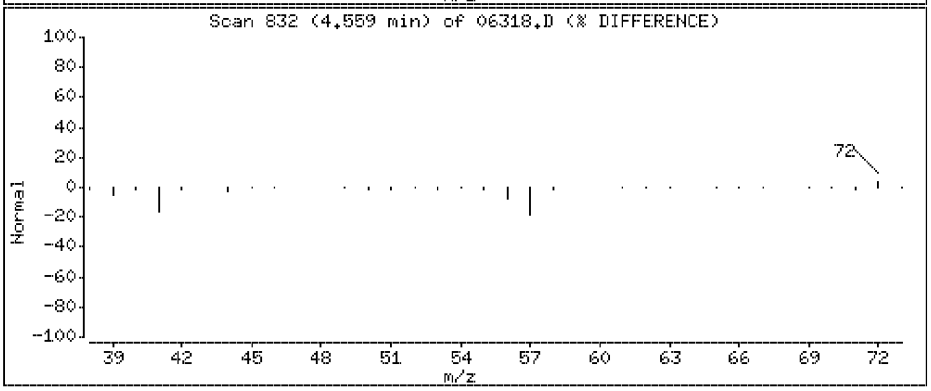












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

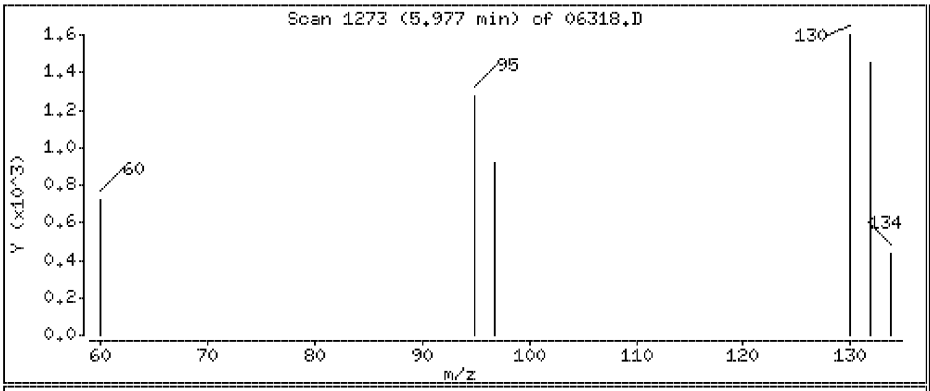
Operator: MJL

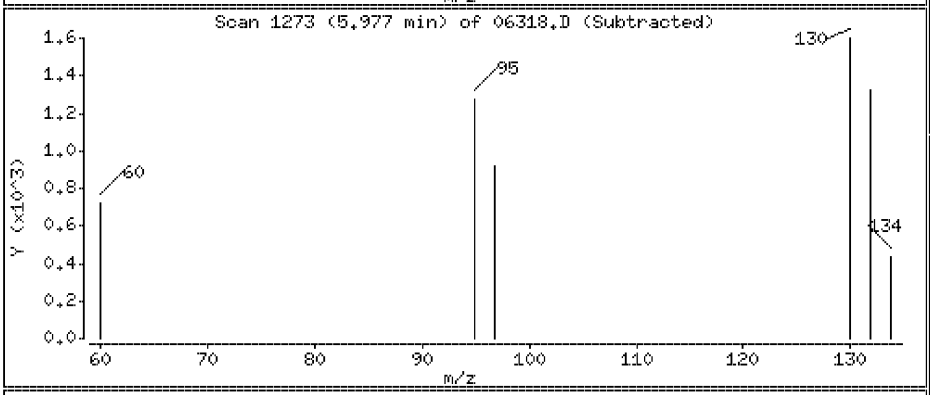
Column phase: J&W DB-5

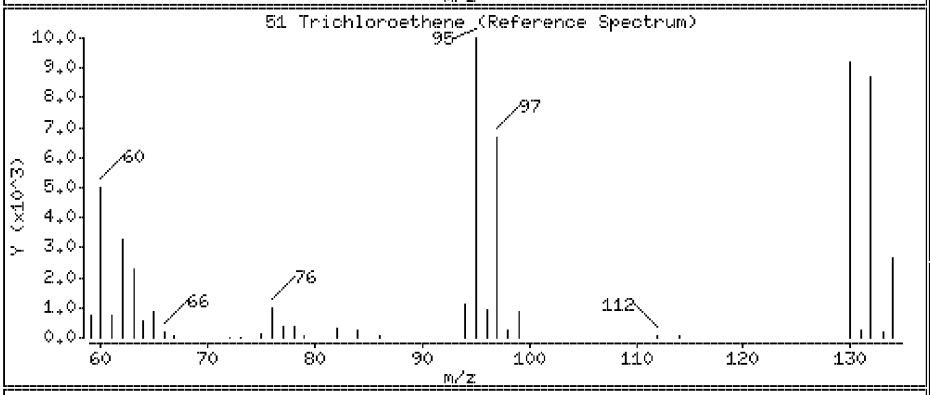
Column diameter: 0.32

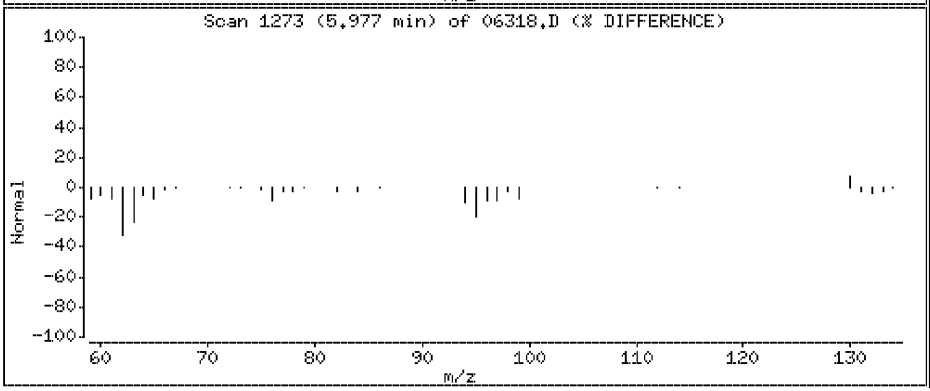
51 Trichloroethene

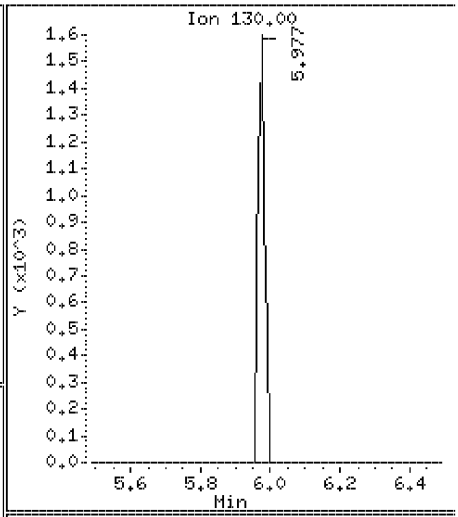
Concentration: 0.140 ppbv

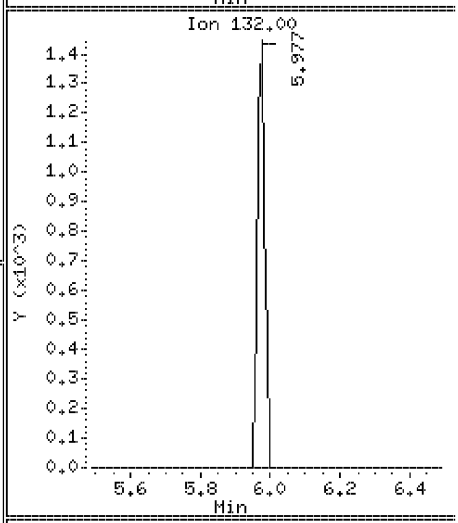


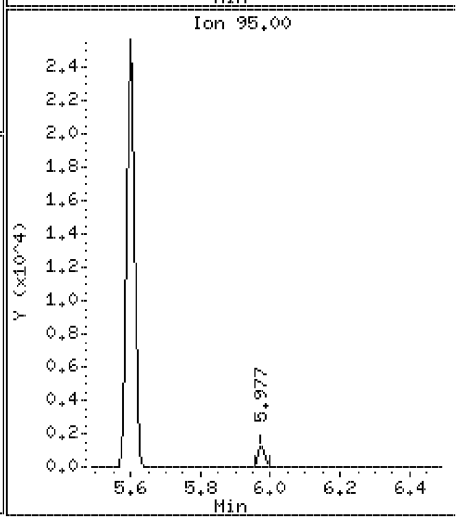












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

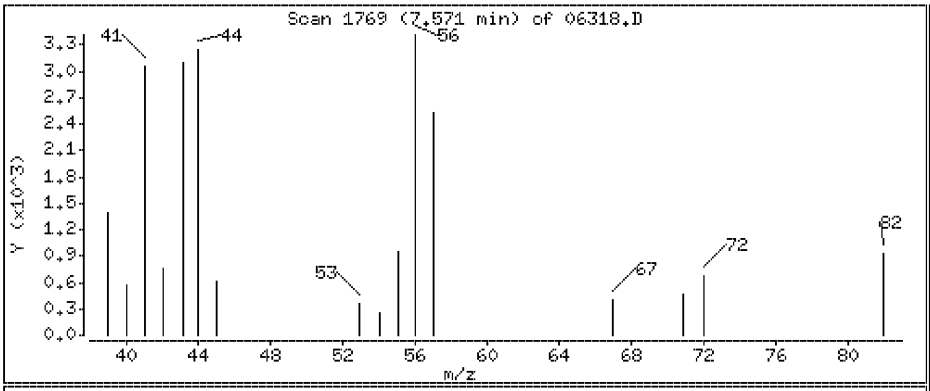
Operator: MJL

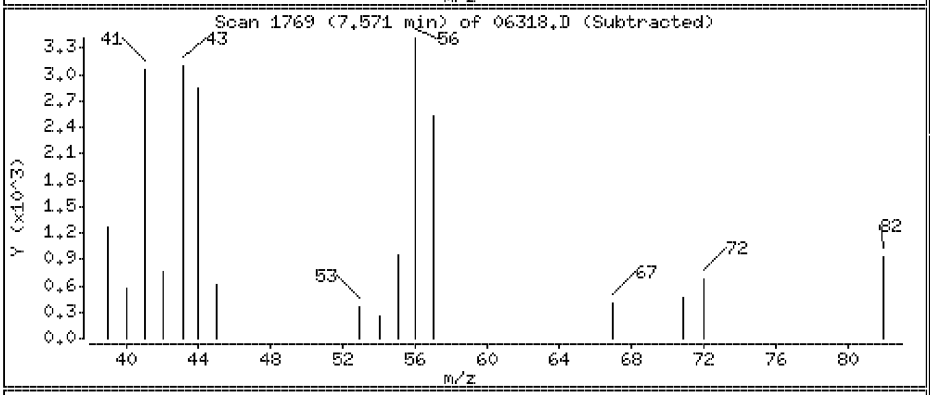
Column phase: J&W DB-5

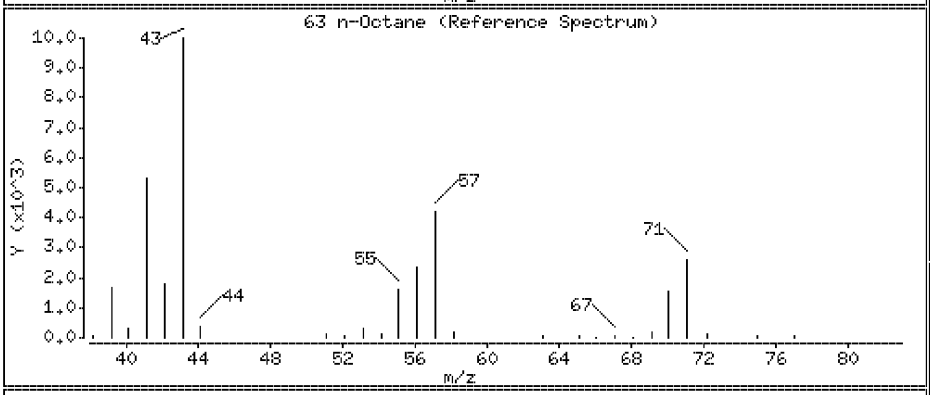
Column diameter: 0.32

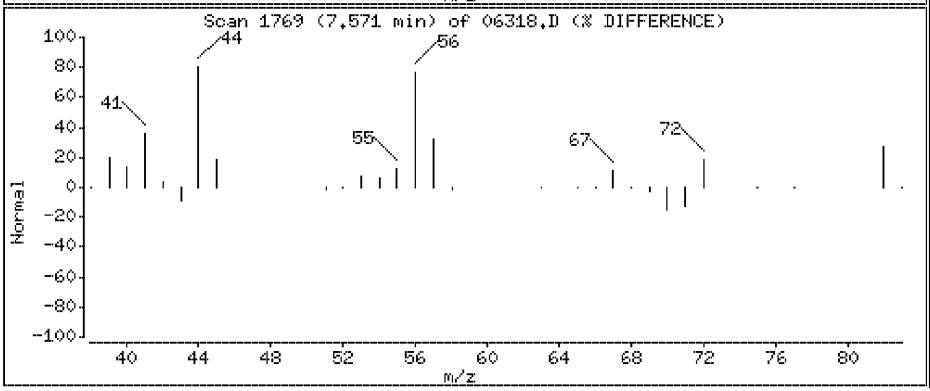
63 n-Octane

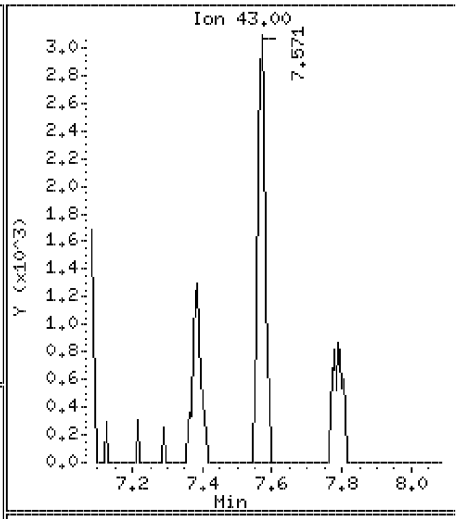
Concentration: 0.254 ppbv

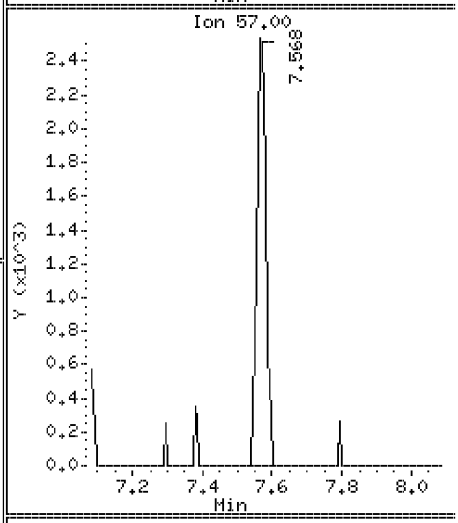


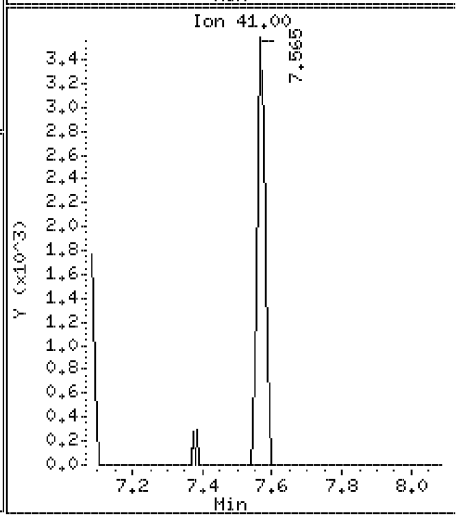












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

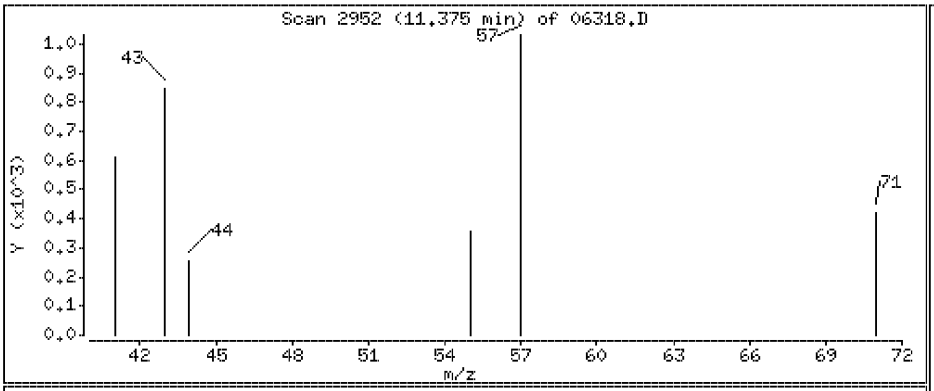
Operator: MJL

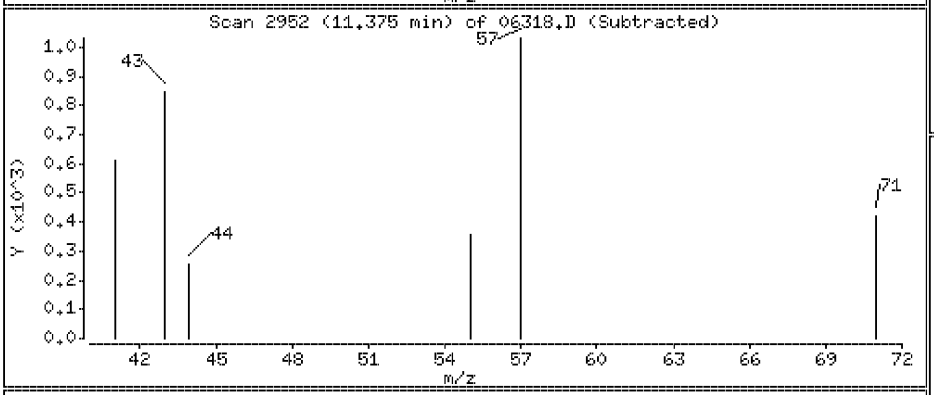
Column phase: J&W DB-5

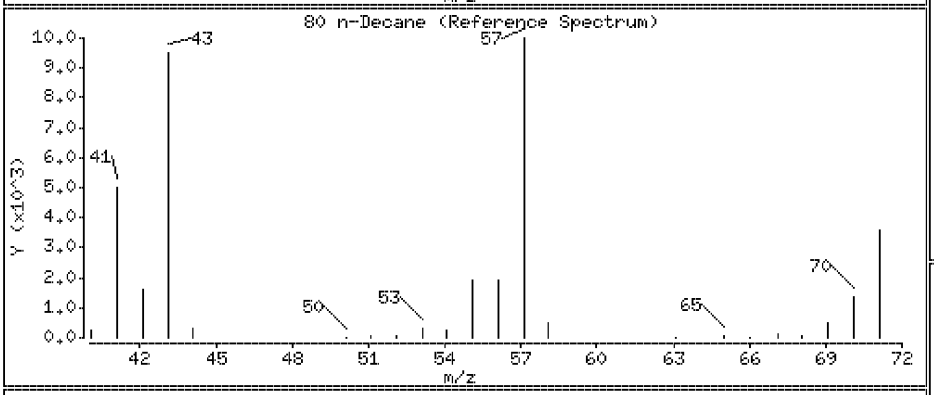
Column diameter: 0.32

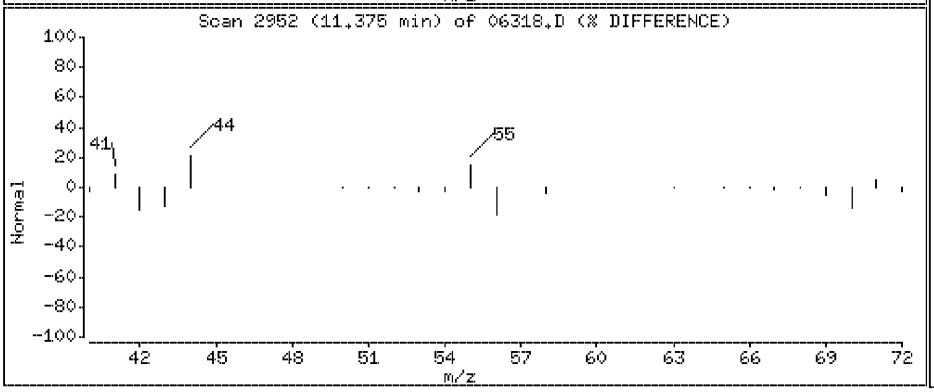
80 n-Decane

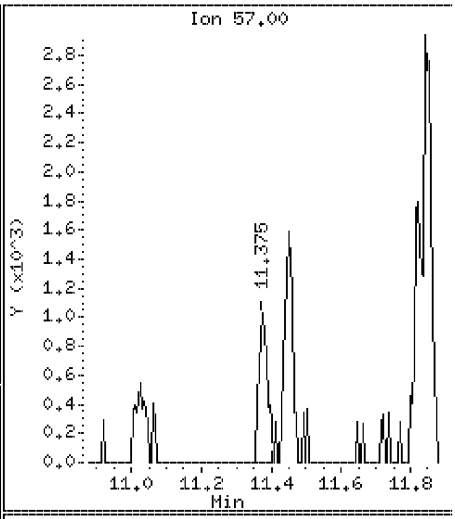
Concentration: 0.475 ppbv

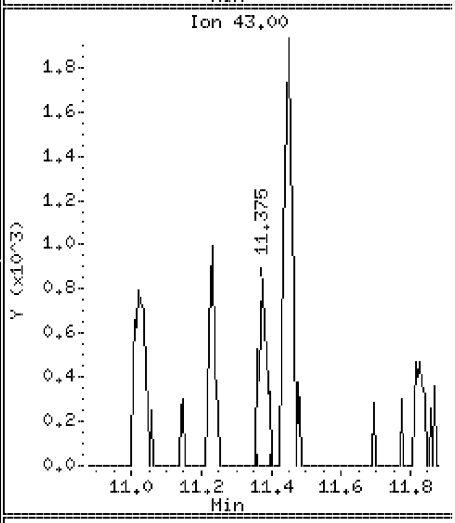


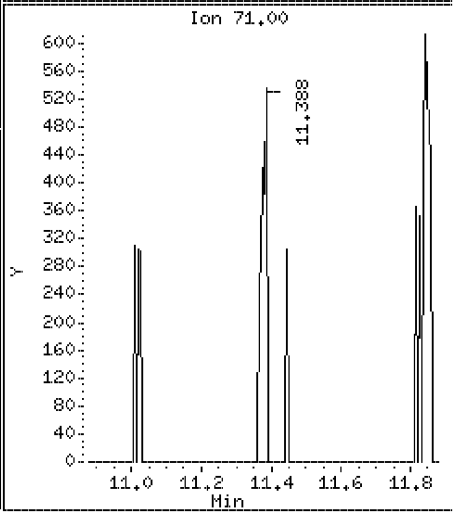












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06318.D

Date : 04-MAR-2017 15:25

Client ID:

Instrument: 10airB.i

Sample Info:

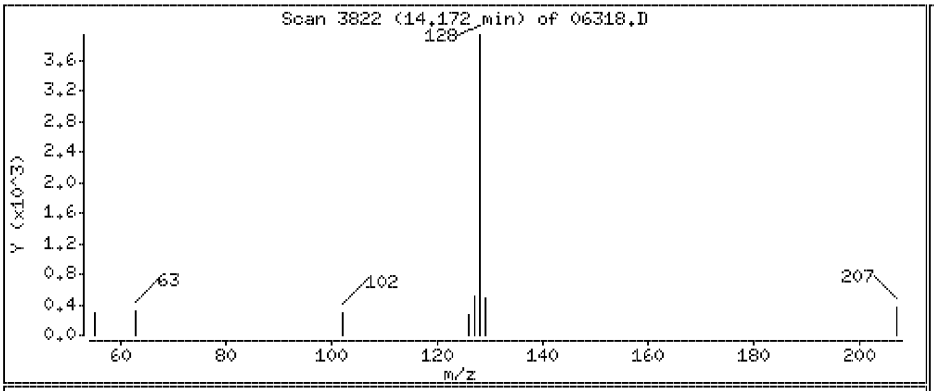
Operator: MJL

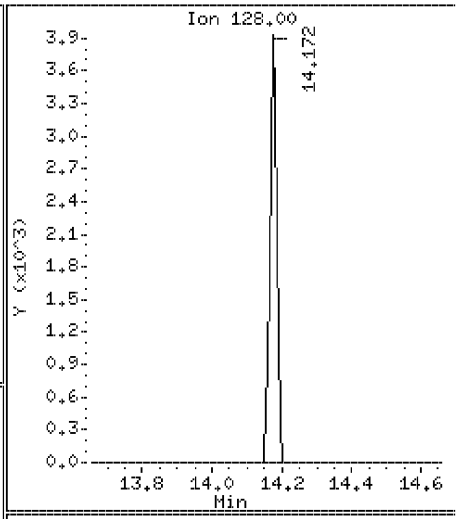
Column phase: J&W DB-5

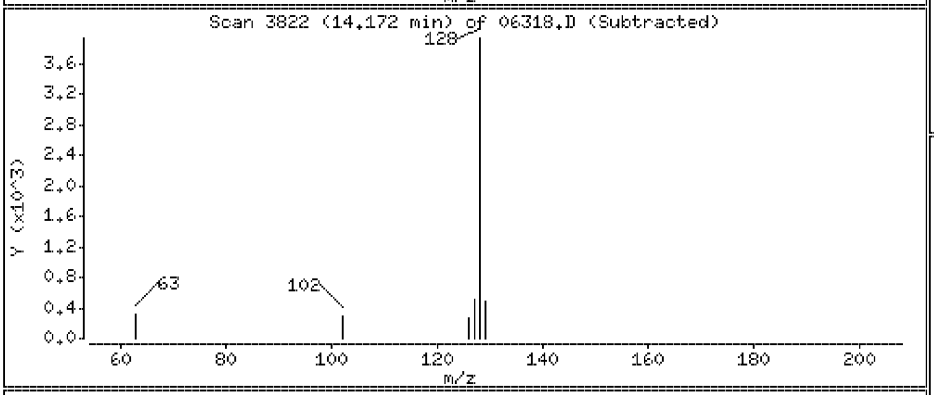
Column diameter: 0.32

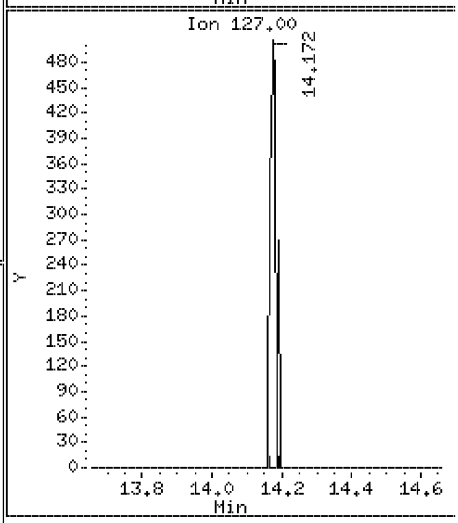
94 Naphthalene

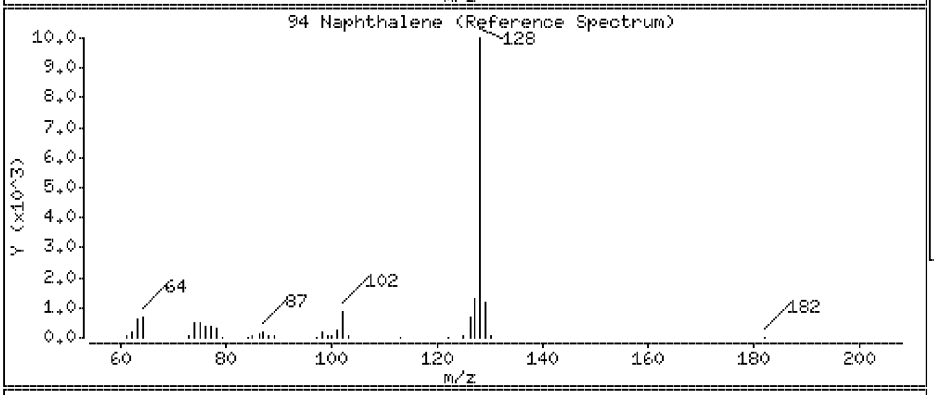
Concentration: 0.806 ppbv

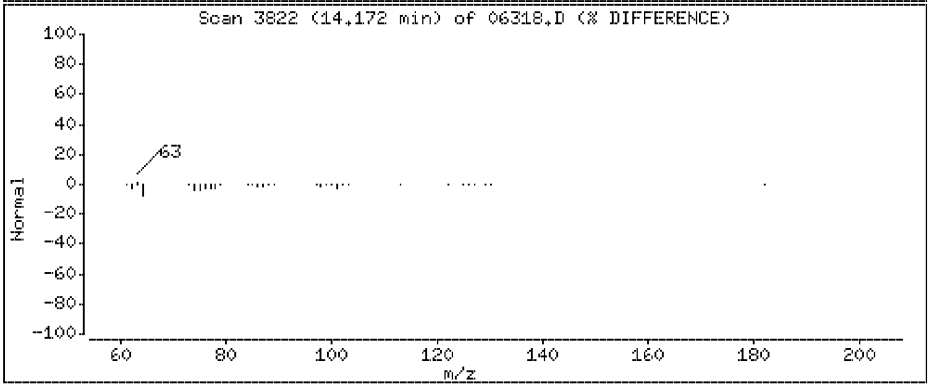












Data File: \\192.168.10.12\chem\10airB.i\030417.b/06318.D
Injection Date: 04-MAR-2017 15:25
Instrument: 10airB.i
Lab Sample ID: 10379929012
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8_20_20170221 **Lab ID: 10379929013** Collected: 02/21/17 13:35 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**19.5**	ug/m3	5.3	1.8	2.21		03/04/17 16:28	67-64-1	
Allyl chloride	**<0.50**	ug/m3	3.5	0.50	2.21		03/04/17 16:28	107-05-1	
Benzene	**<0.27**	ug/m3	0.72	0.27	2.21		03/04/17 16:28	71-43-2	
Bromodichloromethane	**<0.43**	ug/m3	3.0	0.43	2.21		03/04/17 16:28	75-27-4	
Bromoform	**<2.0**	ug/m3	4.6	2.0	2.21		03/04/17 16:28	75-25-2	
Bromomethane	**<0.69**	ug/m3	1.7	0.69	2.21		03/04/17 16:28	74-83-9	
1,3-Butadiene	**<0.39**	ug/m3	0.99	0.39	2.21		03/04/17 16:28	106-99-0	
2-Butanone (MEK)	**6.3J**	ug/m3	6.6	0.50	2.21		03/04/17 16:28	78-93-3	
Carbon disulfide	**<0.22**	ug/m3	1.4	0.22	2.21		03/04/17 16:28	75-15-0	
Carbon tetrachloride	**<0.43**	ug/m3	1.4	0.43	2.21		03/04/17 16:28	56-23-5	
Chlorobenzene	**<0.30**	ug/m3	2.1	0.30	2.21		03/04/17 16:28	108-90-7	
Chlorodifluoromethane	**7.9**	ug/m3	1.6	0.61	2.21		03/04/17 16:28	75-45-6	
Chloroethane	**<0.43**	ug/m3	1.2	0.43	2.21		03/04/17 16:28	75-00-3	
Chloroform	**<0.42**	ug/m3	1.1	0.42	2.21		03/04/17 16:28	67-66-3	
Chloromethane	**<0.24**	ug/m3	0.93	0.24	2.21		03/04/17 16:28	74-87-3	
Chloropentafluoroethane	**<7.1**	ug/m3	7.1	7.1	2.21		03/04/17 16:28	76-15-3	
Cyclohexane	**<0.70**	ug/m3	1.5	0.70	2.21		03/04/17 16:28	110-82-7	
1,2-Dibromo-3-chloropropane	**<10.9**	ug/m3	10.9	10.9	2.21		03/04/17 16:28	96-12-8	
Dibromochloromethane	**<1.9**	ug/m3	3.8	1.9	2.21		03/04/17 16:28	124-48-1	
1,2-Dibromoethane (EDB)	**<1.7**	ug/m3	3.4	1.7	2.21		03/04/17 16:28	106-93-4	
1,2-Dichlorobenzene	**<1.1**	ug/m3	2.7	1.1	2.21		03/04/17 16:28	95-50-1	
1,3-Dichlorobenzene	**<1.2**	ug/m3	2.7	1.2	2.21		03/04/17 16:28	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/m3	2.7	1.1	2.21		03/04/17 16:28	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	2.2	1.1	2.21		03/04/17 16:28	75-71-8	
1,1-Dichloroethane	**<0.35**	ug/m3	1.8	0.35	2.21		03/04/17 16:28	75-34-3	
1,2-Dichloroethane	**<0.45**	ug/m3	0.91	0.45	2.21		03/04/17 16:28	107-06-2	
1,1-Dichloroethene	**<0.53**	ug/m3	1.8	0.53	2.21		03/04/17 16:28	75-35-4	
cis-1,2-Dichloroethene	**<0.54**	ug/m3	1.8	0.54	2.21		03/04/17 16:28	156-59-2	
trans-1,2-Dichloroethene	**<0.85**	ug/m3	1.8	0.85	2.21		03/04/17 16:28	156-60-5	
1,2-Dichloropropane	**<0.60**	ug/m3	2.1	0.60	2.21		03/04/17 16:28	78-87-5	
cis-1,3-Dichloropropene	**<0.82**	ug/m3	2.0	0.82	2.21		03/04/17 16:28	10061-01-5	
trans-1,3-Dichloropropene	**<0.57**	ug/m3	2.0	0.57	2.21		03/04/17 16:28	10061-02-6	
Dichlorotetrafluoroethane	**<0.69**	ug/m3	3.1	0.69	2.21		03/04/17 16:28	76-14-2	
Freon 123	**<7.0**	ug/m3	7.0	7.0	2.21		03/04/17 16:28	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.78**	ug/m3	8.1	0.78	2.21		03/04/17 16:28	123-91-1	
Ethylbenzene	**<0.94**	ug/m3	1.9	0.94	2.21		03/04/17 16:28	100-41-4	
4-Ethyltoluene	**<0.42**	ug/m3	2.2	0.42	2.21		03/04/17 16:28	622-96-8	
Hexachloro-1,3-butadiene	**<1.4**	ug/m3	4.8	1.4	2.21		03/04/17 16:28	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.6	0.79	2.21		03/04/17 16:28	110-54-3	
2-Hexanone	**1.6J**	ug/m3	9.2	0.91	2.21		03/04/17 16:28	591-78-6	
Isopropylbenzene (Cumene)	**<0.30**	ug/m3	5.5	0.30	2.21		03/04/17 16:28	98-82-8	
Methyl acetate	**<3.4**	ug/m3	3.4	3.4	2.21		03/04/17 16:28	79-20-9	
Methylcyclohexane	**<0.53**	ug/m3	1.8	0.53	2.21		03/04/17 16:28	108-87-2	
Methylene Chloride	**1.4J**	ug/m3	7.8	1.2	2.21		03/04/17 16:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.48**	ug/m3	9.2	0.48	2.21		03/04/17 16:28	108-10-1	
Methyl-tert-butyl ether	**<0.67**	ug/m3	8.1	0.67	2.21		03/04/17 16:28	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D
Report Date: 05-Mar-2017 15:09

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06320.D
Lab Smp Id: 10379929013
Inj Date : 04-MAR-2017 16:28
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 20
Dil Factor: 2.21000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.210	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.002	3.018	(0.536)	28232	3.94953	8.73(Q)	
3	Chlorodifluoromethane	67	3.021	3.028	(0.540)	3544	0.99703	2.20(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.047	3.060	(0.544)	10466	0.22522	0.498(M)	
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.546	3.545	(0.633)	6615	1.47654	3.26	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.574	3.600	(0.639)	2933	0.10453	0.231	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.655	3.674	(0.653)	3565	0.10665	0.236	
17	Acrolein	56	3.668	3.684	(0.655)	1662	0.56169	1.24(Q)	
18	Acetone	43	3.710	3.722	(0.663)	70798	3.65964	8.09(Q)	
19	Isopropyl Alcohol	45	3.767	3.767	(0.673)	9646	0.48890	1.08	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D
Report Date: 05-Mar-2017 15:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.960	3.957	(0.708)	28818	1.13623	2.51	
	25 Methylene chloride	49	3.989	4.005	(0.713)	2454	0.17972	0.397	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.436	4.391	(0.793)	12873	0.57325	1.27	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.491	(0.800)	392595	10.1206	10.1	
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.814)	5141	0.95826	2.12(QM)	
	34 n-Hexane	57	4.558	4.584	(0.814)	2994	0.15399	0.340(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	1219271	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.970	5.989	(1.067)	31099	1.51806	3.35	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	1047920	9.60266	9.60	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.140	7.153	(1.276)	7330	0.14885	0.329	
	62 Methyl Butyl Ketone	43	7.375	7.372	(0.854)	4444	0.17380	0.384	
	63 n-Octane	43	7.565	7.584	(0.876)	6379	0.23036	0.509(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	4183	0.14879	0.329	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	809603	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	9.491	9.468	(1.099)	5093	0.21127	0.467(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D
Report Date: 05-Mar-2017 15:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	11.446	11.378	(2.045)	3736	0.35410	0.783(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	472813	10.6016	10.6	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.156	(1.641)	4251	0.46629	1.03	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D
Report Date: 05-Mar-2017 15:09

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06320.D
Lab Smp Id: 10379929013
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

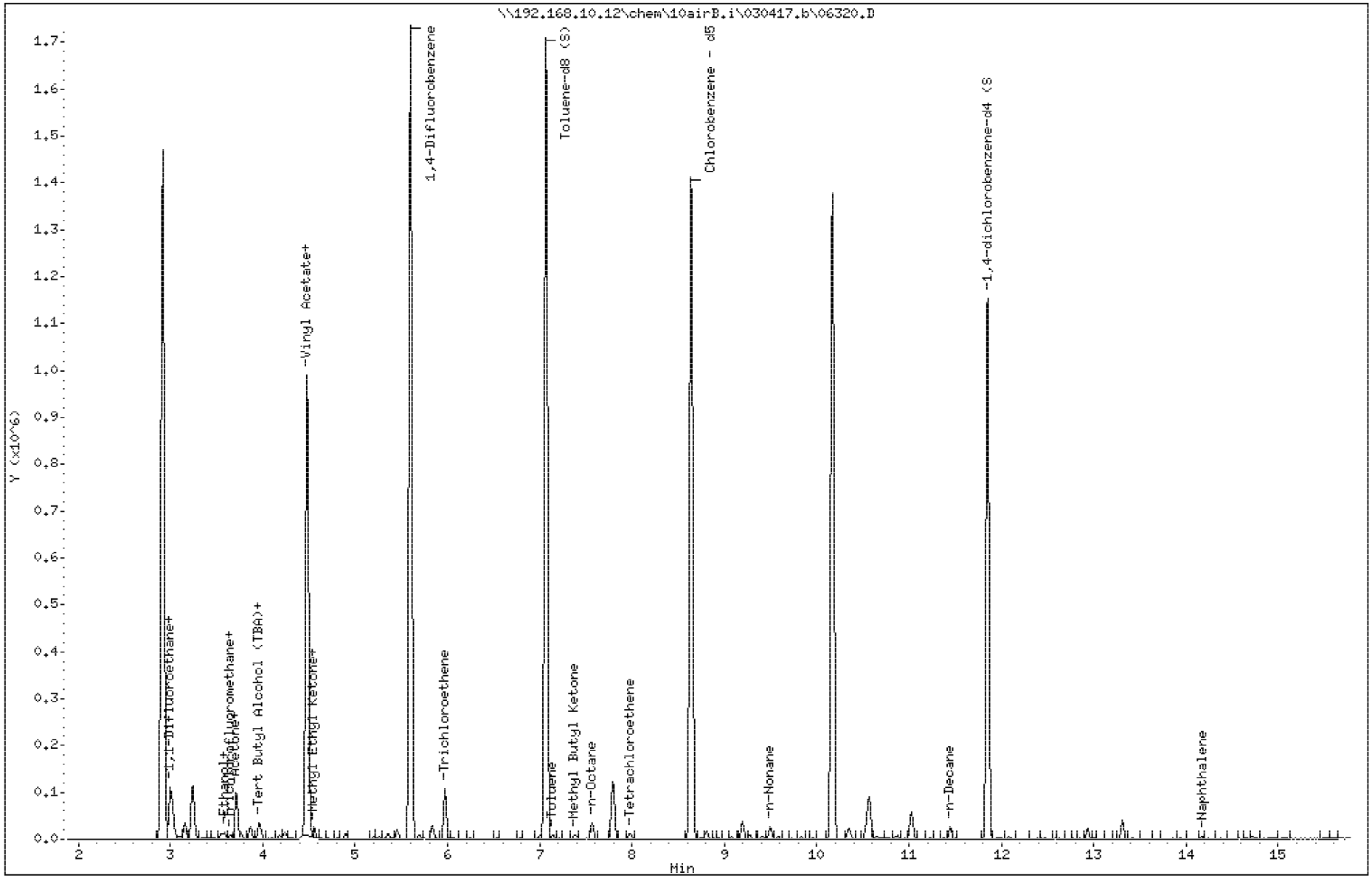
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1219271	-13.78
67 Chlorobenzene - d	951026	570616	1331436	809603	-14.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.28
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D
Date : 04-MAR-2017 16:28
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

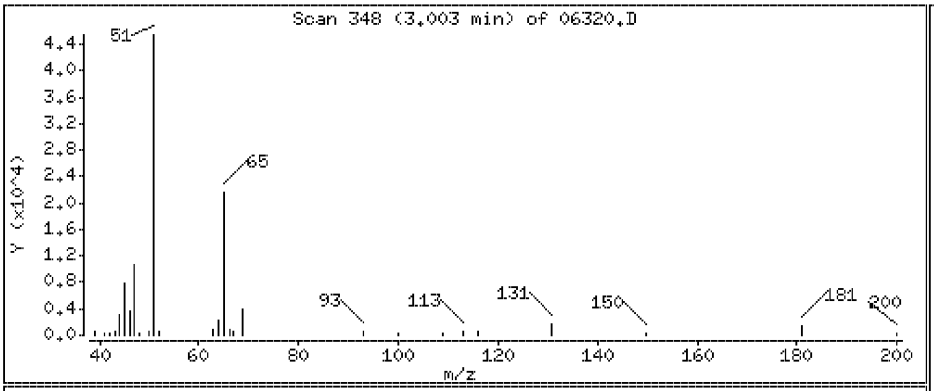
Operator: MJL

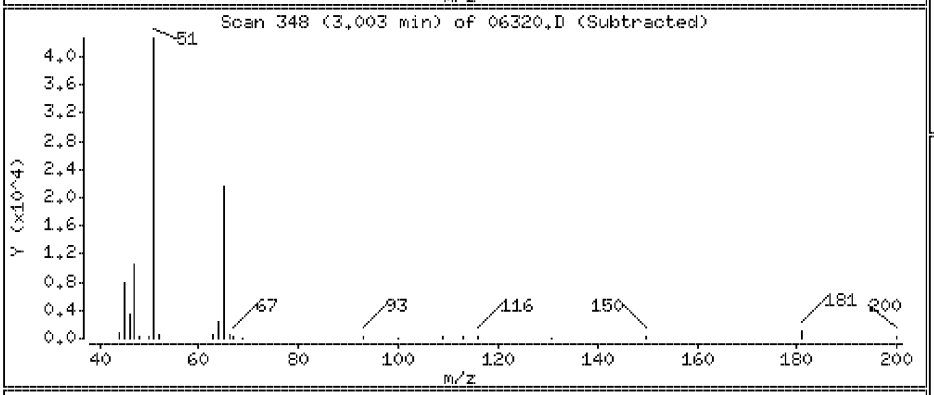
Column phase: J&W DB-5

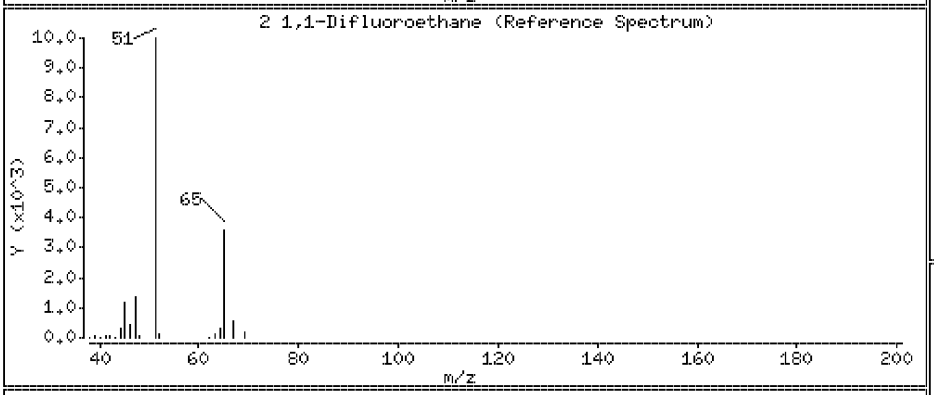
Column diameter: 0.32

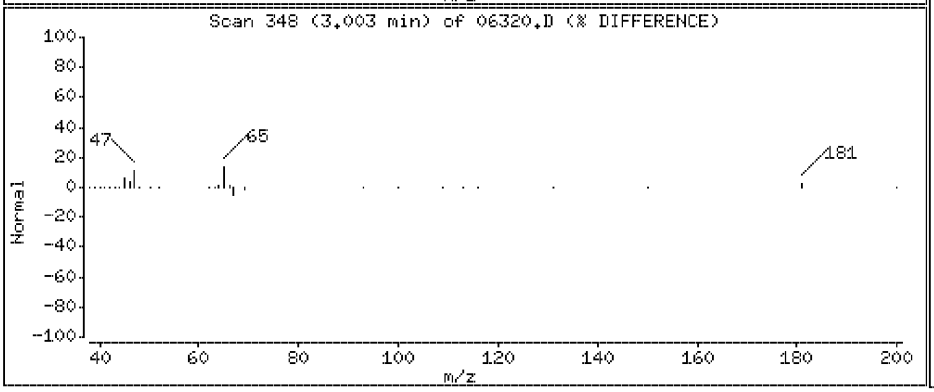
2 1,1-Difluoroethane

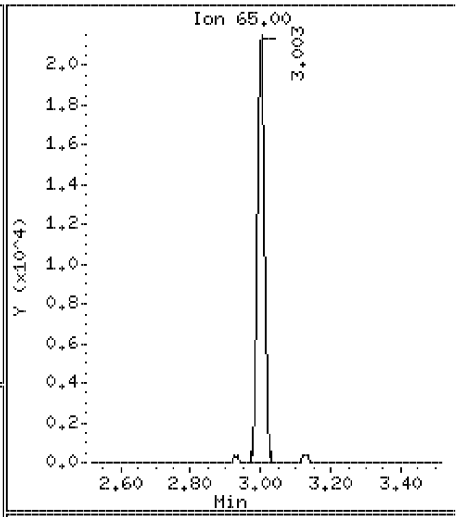
Concentration: 8.73 ppbv

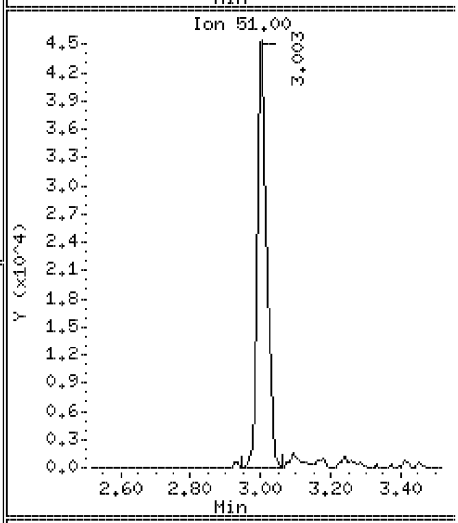


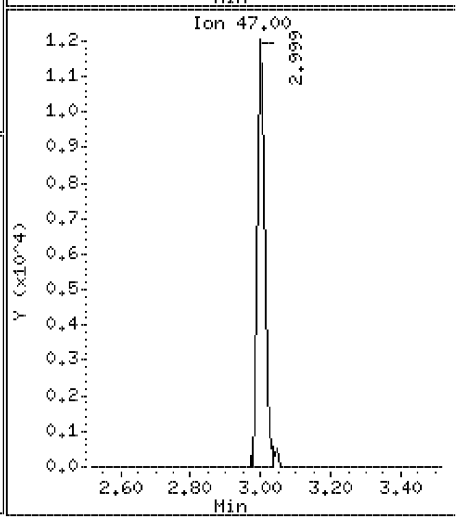












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

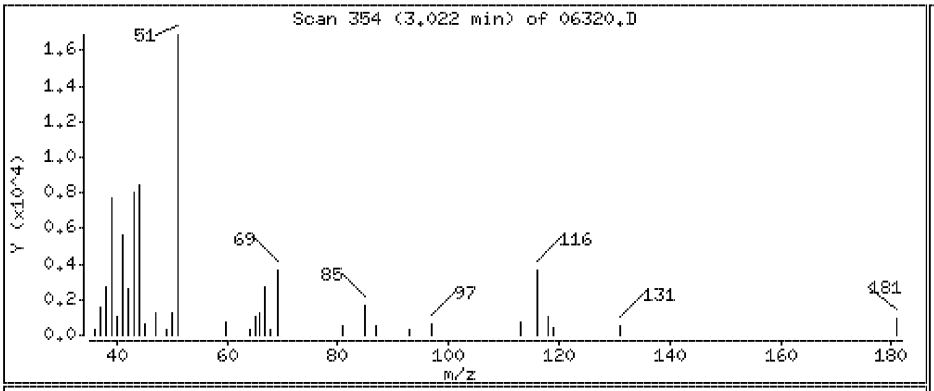
Operator: MJL

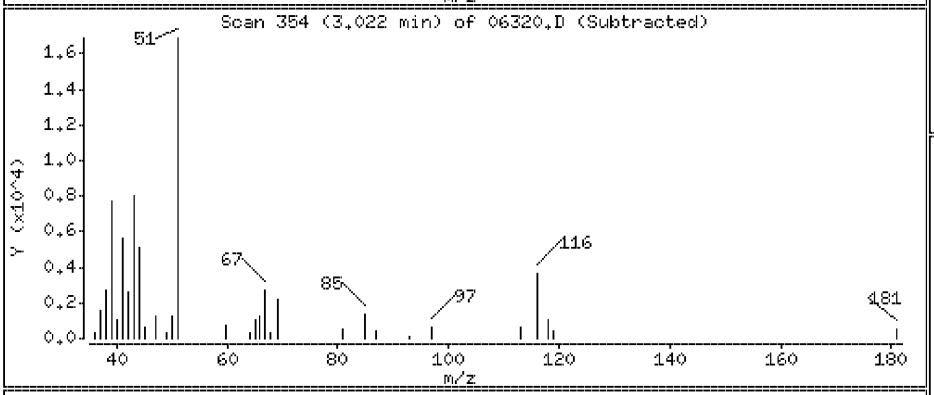
Column phase: J&W DB-5

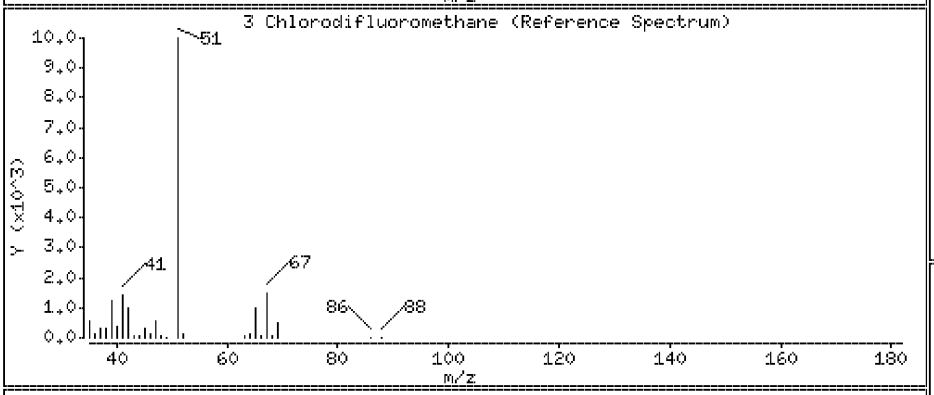
Column diameter: 0.32

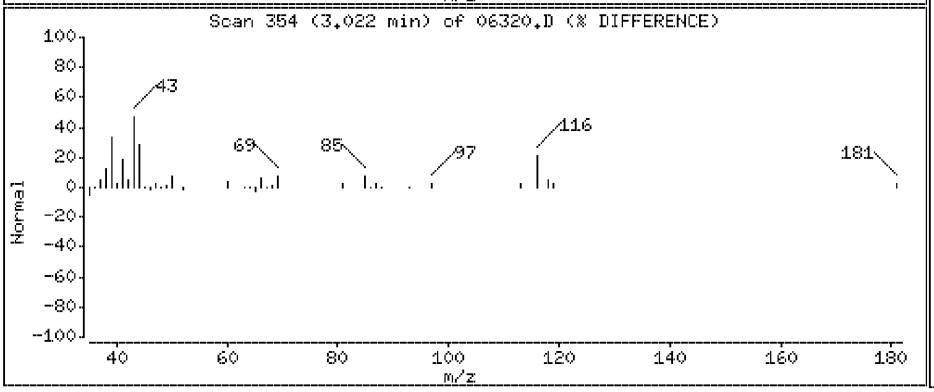
3 Chlorodifluoromethane

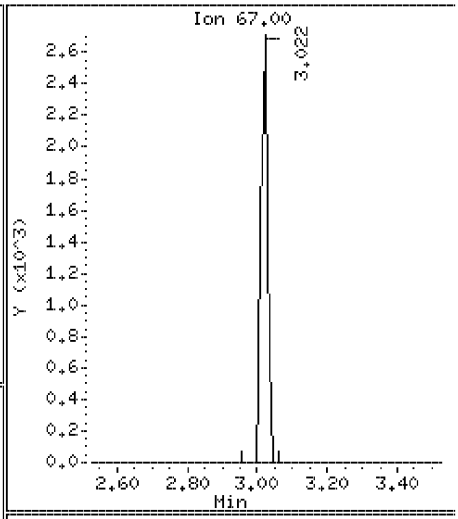
Concentration: 2.20 ppbv

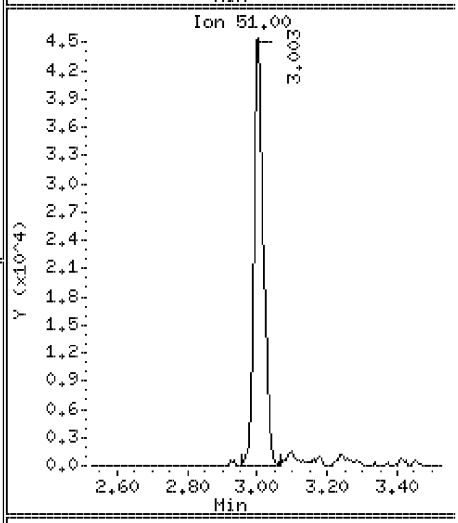


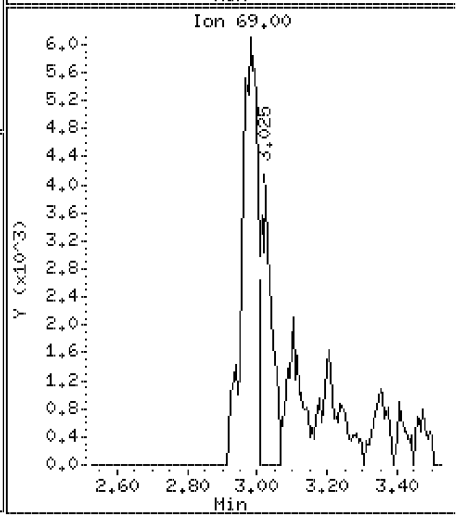












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

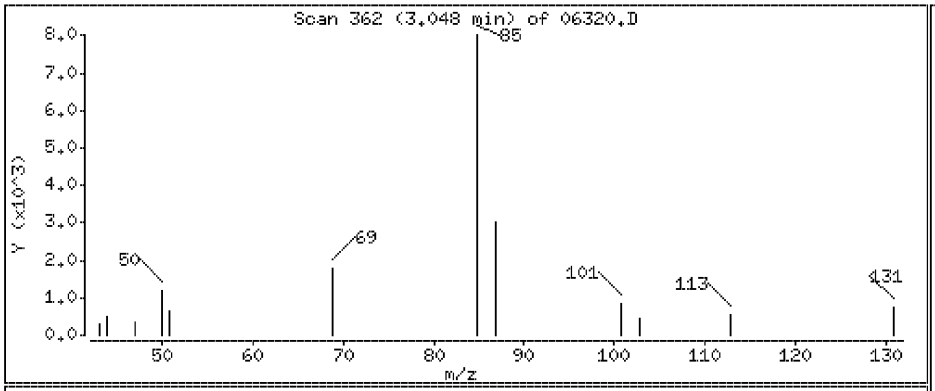
Operator: MJL

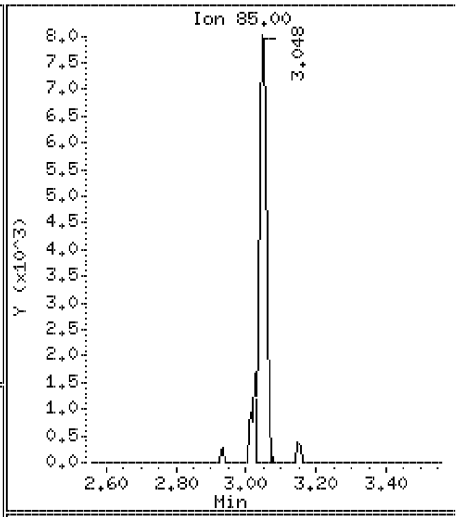
Column phase: J&W DB-5

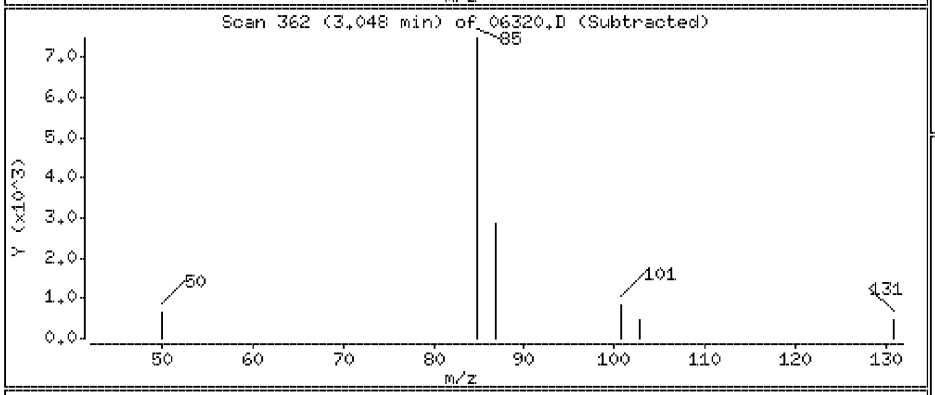
Column diameter: 0.32

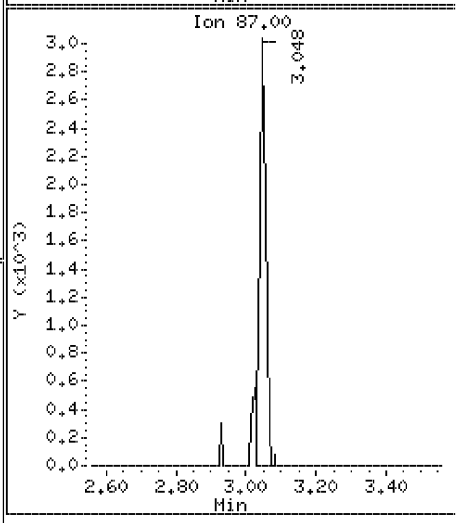
5 Dichlorodifluoromethane

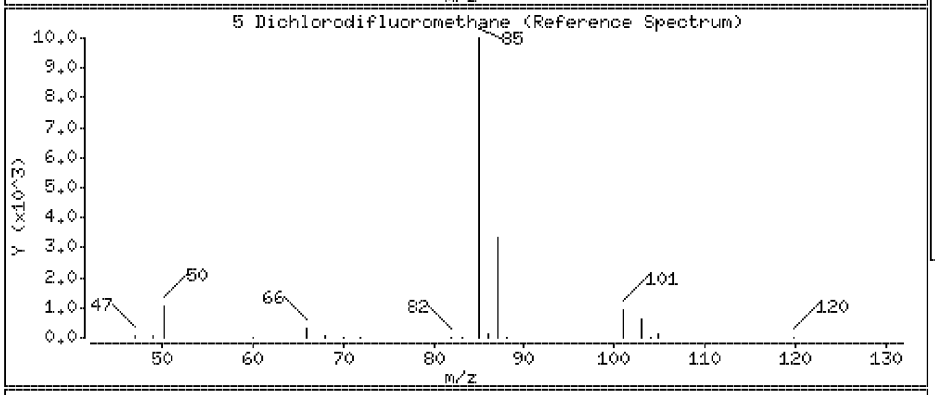
Concentration: 0.498 ppbv

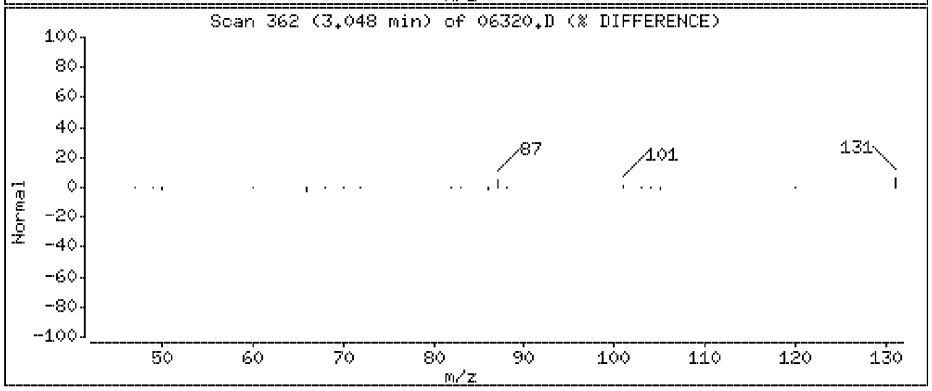












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

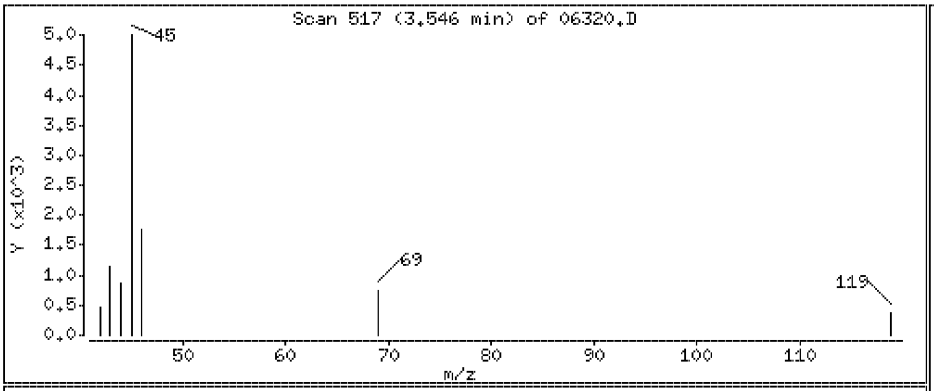
Operator: MJL

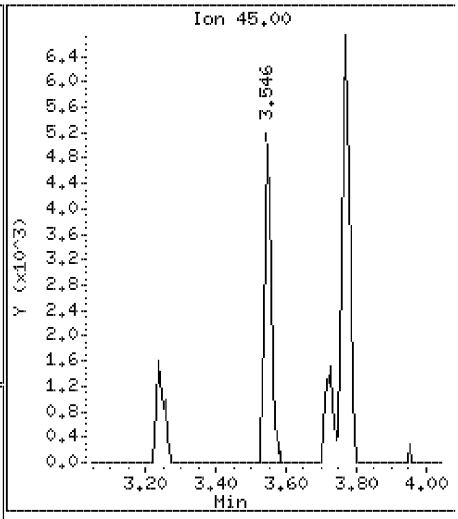
Column phase: J&W DB-5

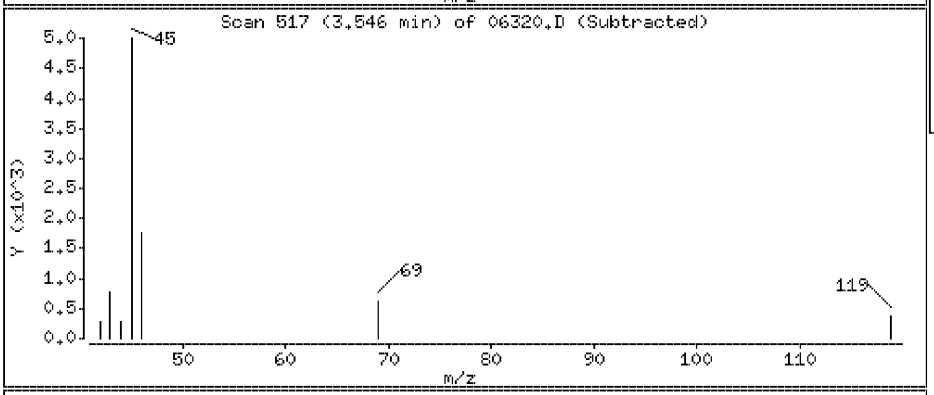
Column diameter: 0.32

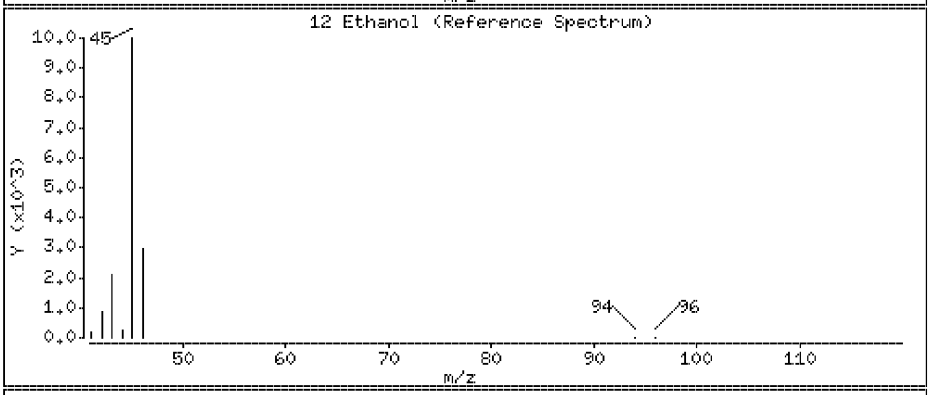
12 Ethanol

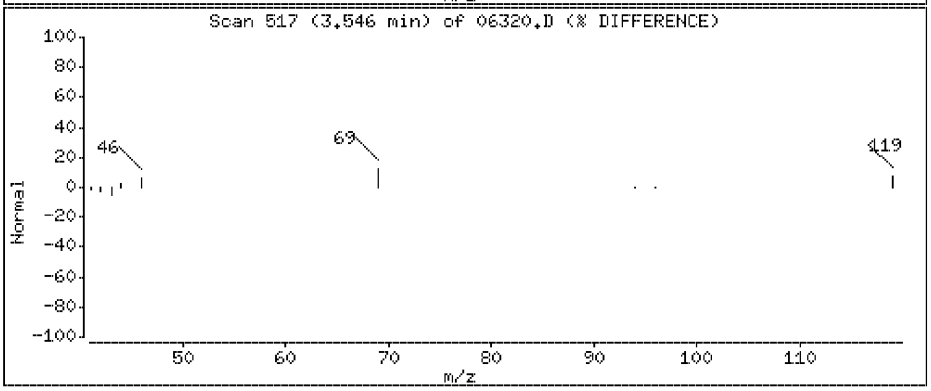
Concentration: 3.26 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

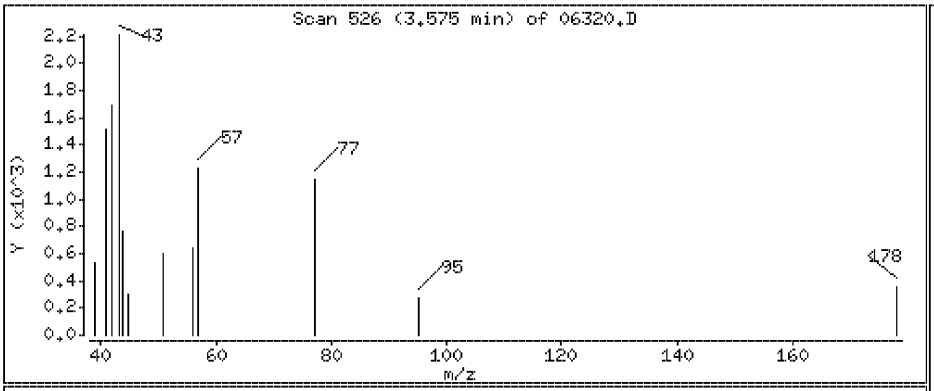
Operator: MJL

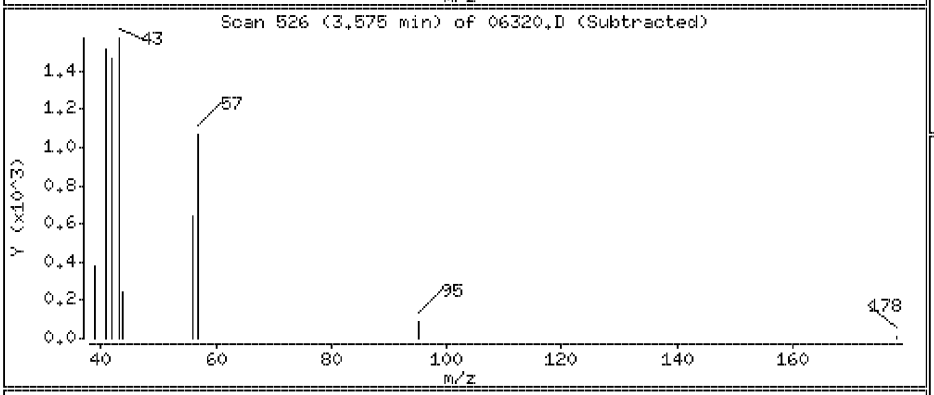
Column phase: J&W DB-5

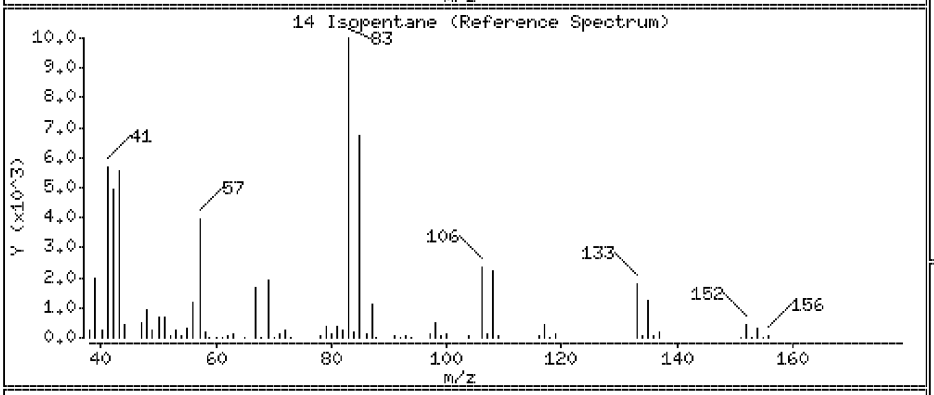
Column diameter: 0.32

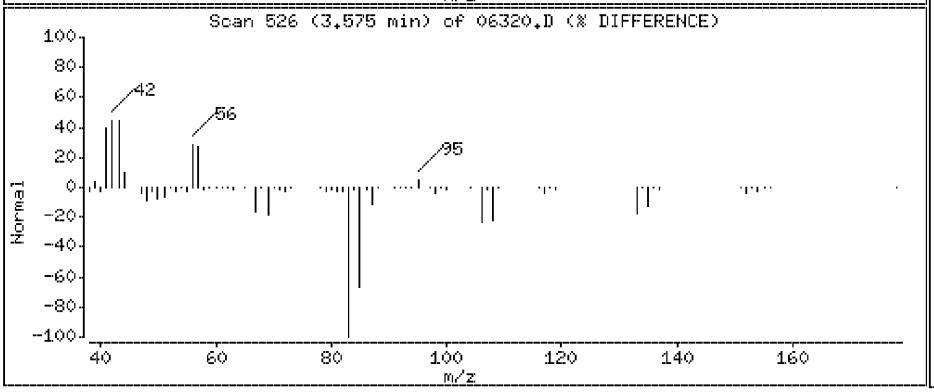
14 Isopentane

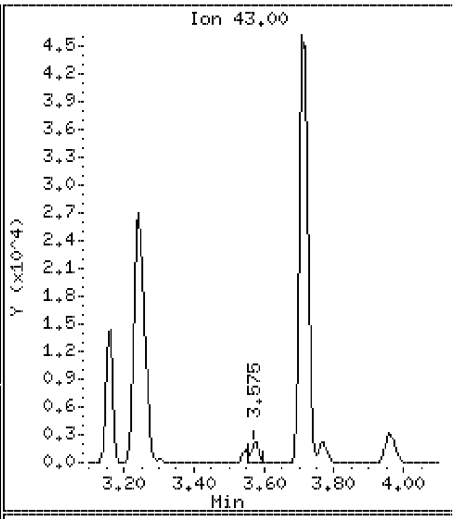
Concentration: 0.231 ppbv

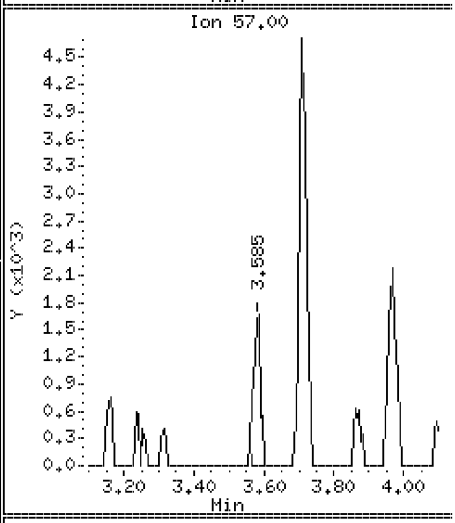


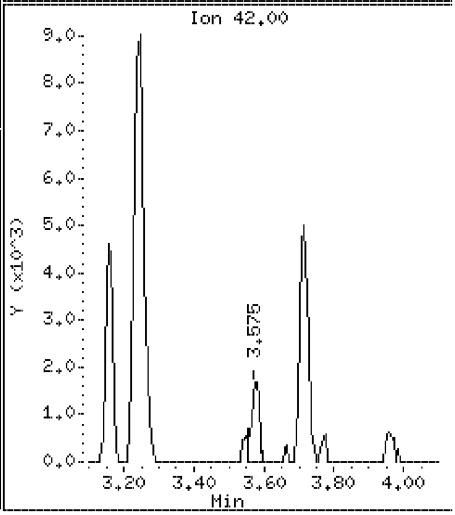












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

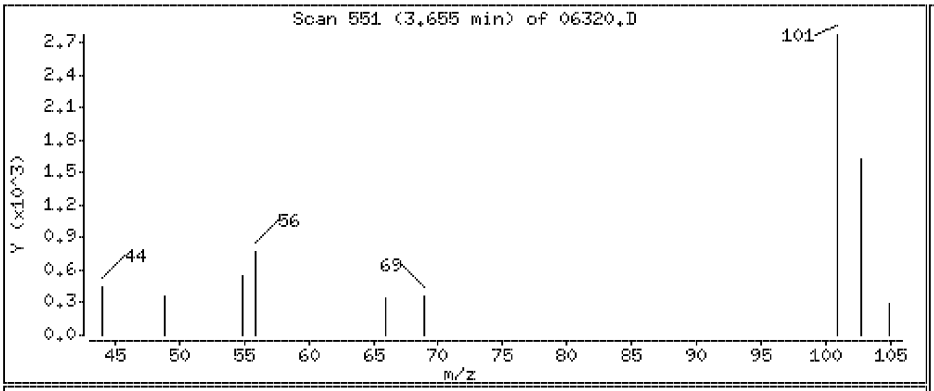
Operator: MJL

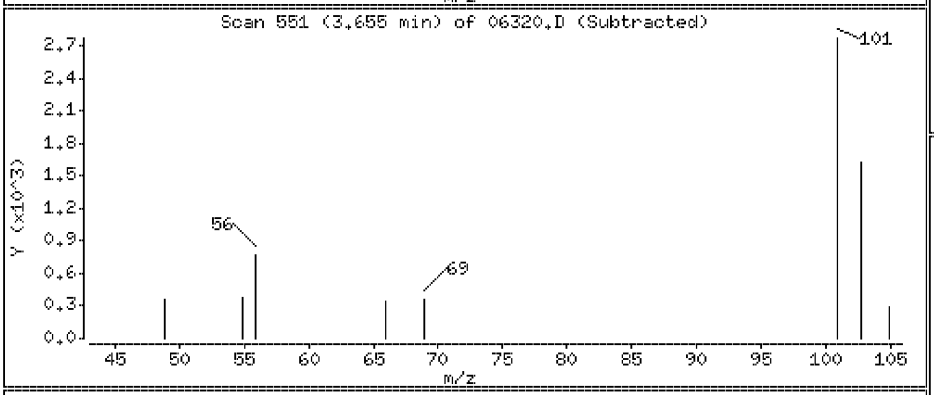
Column phase: J&W DB-5

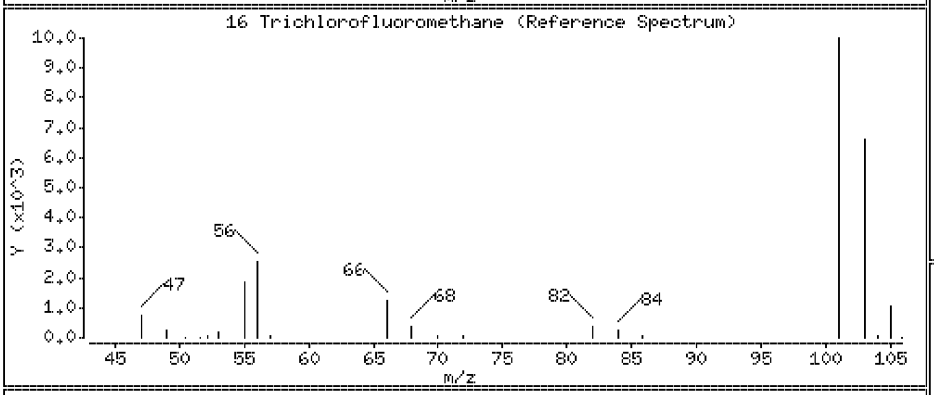
Column diameter: 0.32

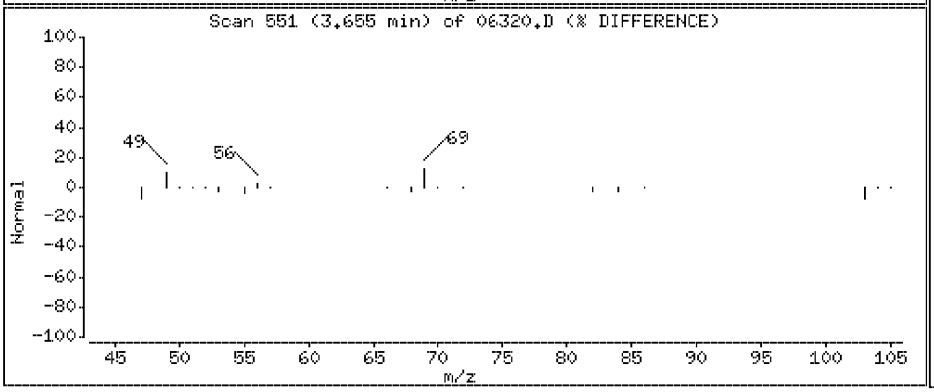
16 Trichlorofluoromethane

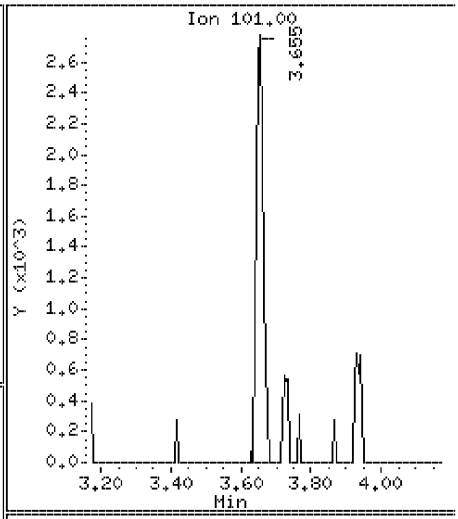
Concentration: 0.236 ppbv

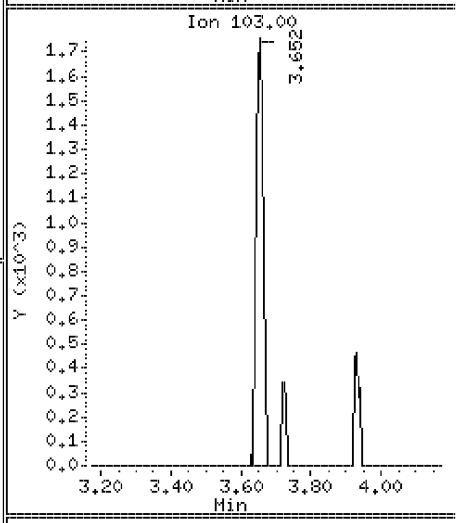


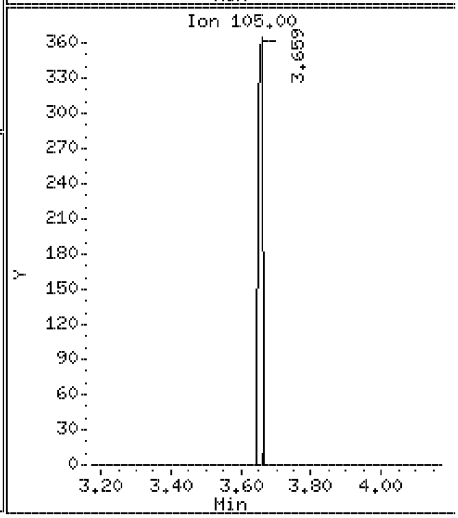












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

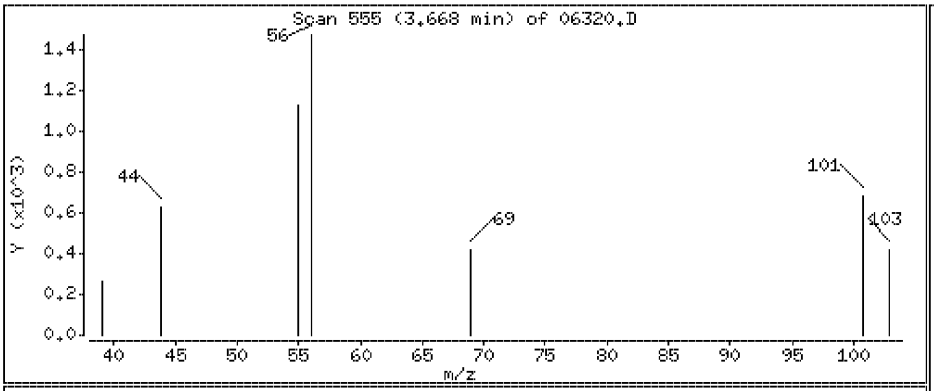
Operator: MJL

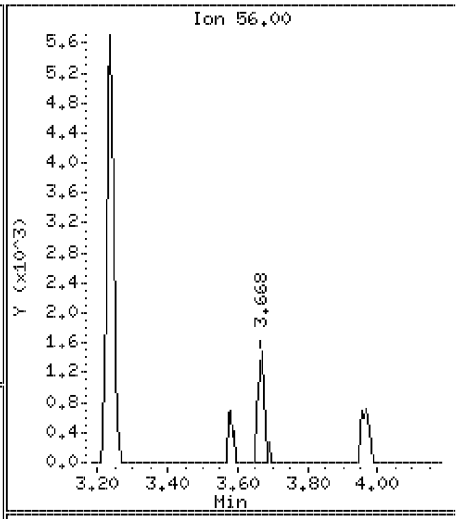
Column phase: J&W DB-5

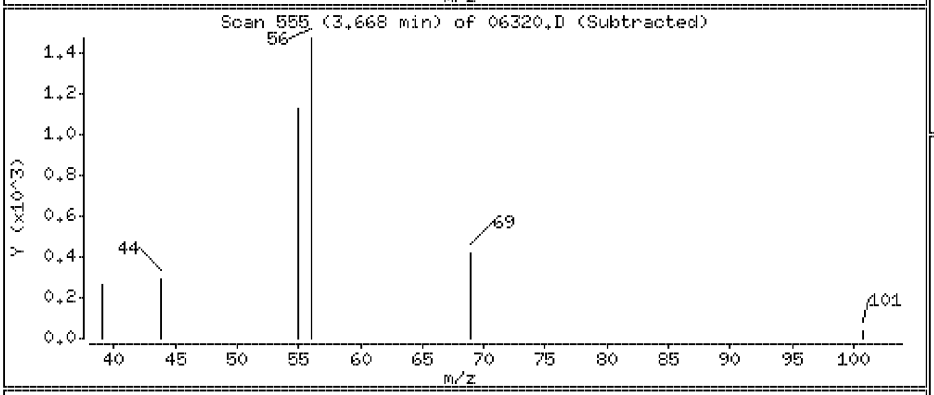
Column diameter: 0.32

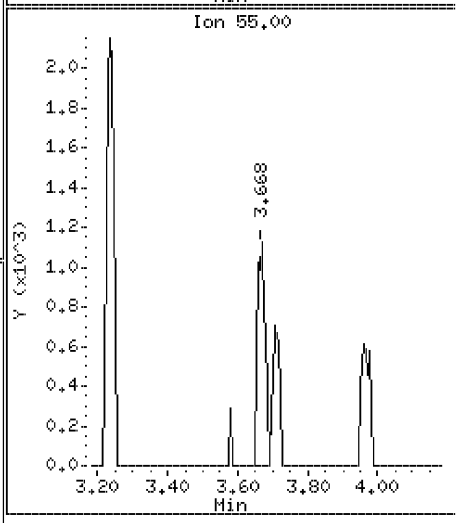
17 Acrolein

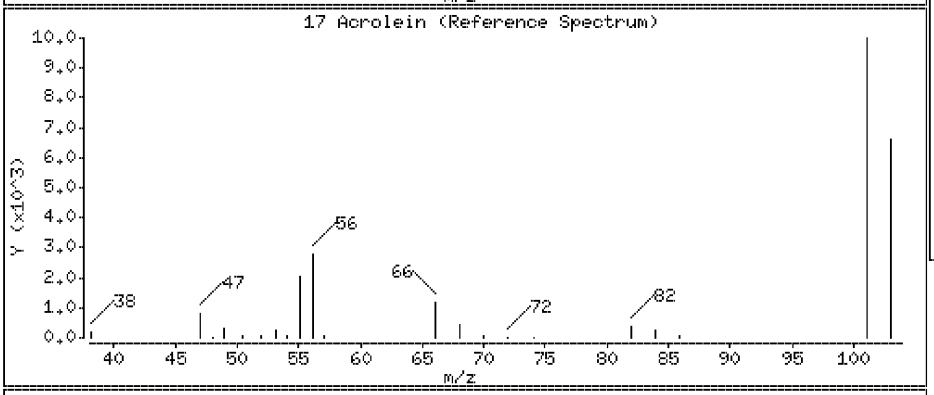
Concentration: 1.24 ppbv

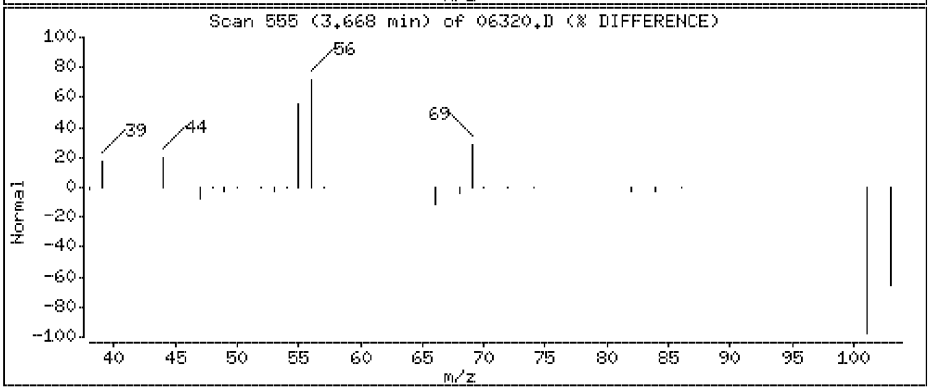












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

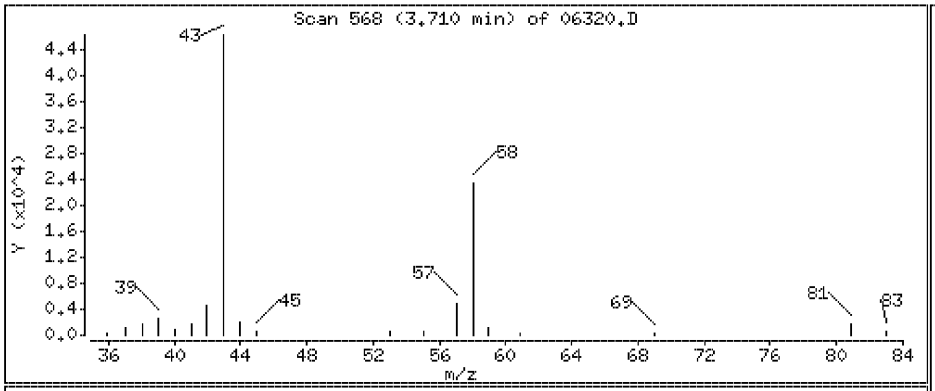
Operator: MJL

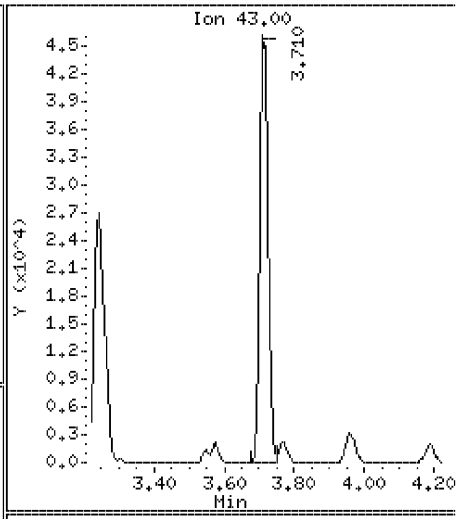
Column phase: J&W DB-5

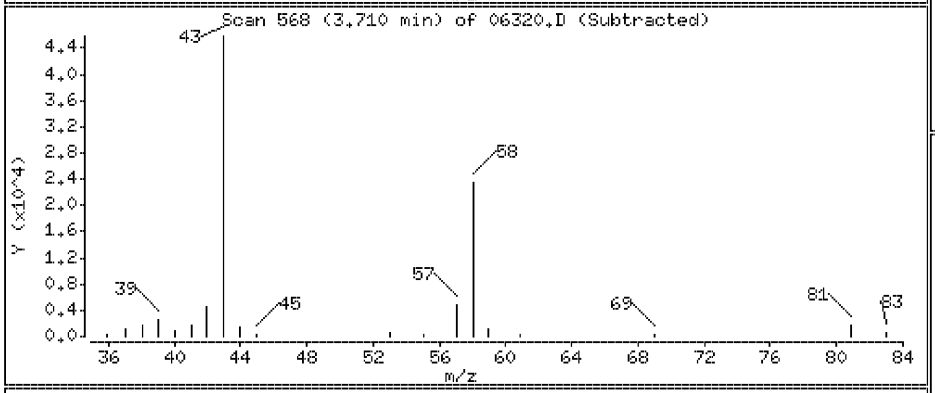
Column diameter: 0.32

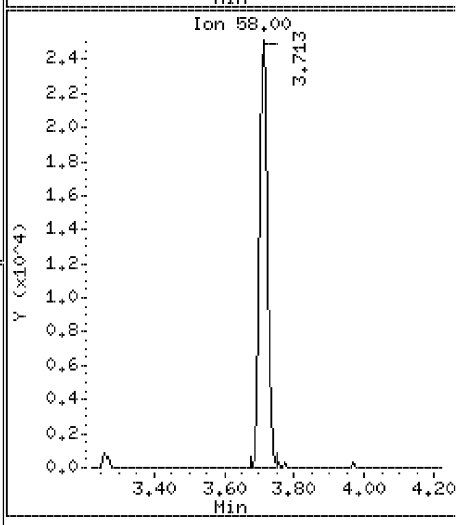
18 Acetone

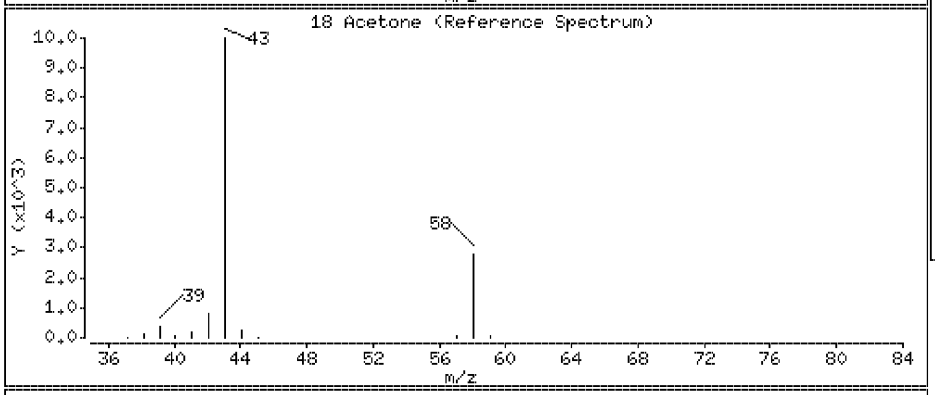
Concentration: 8.09 ppbv

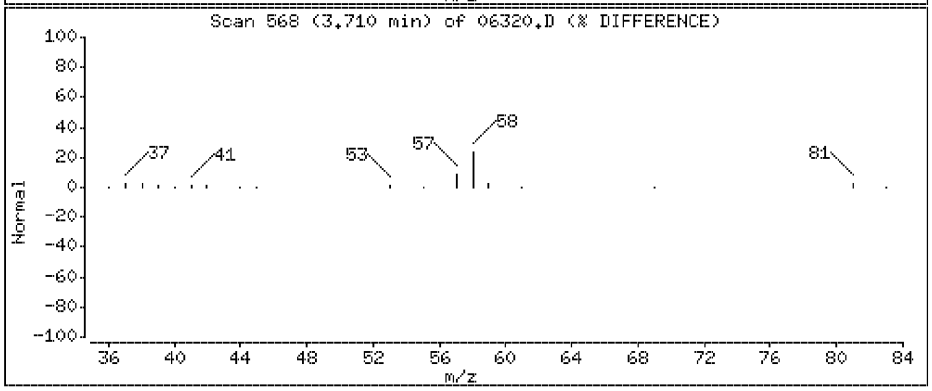












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

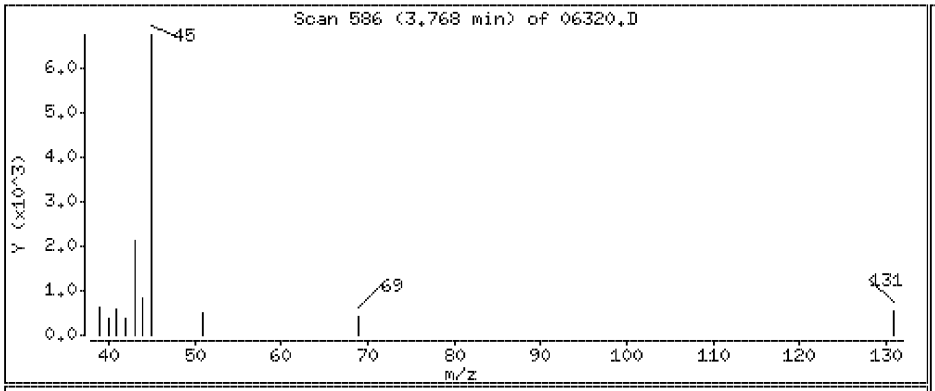
Operator: MJL

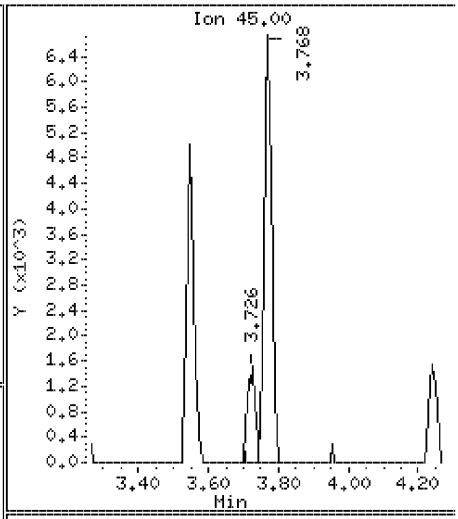
Column phase: J&W DB-5

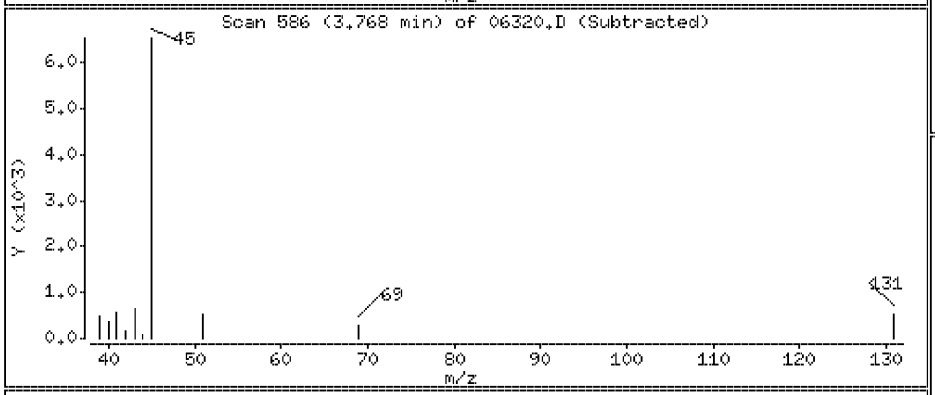
Column diameter: 0.32

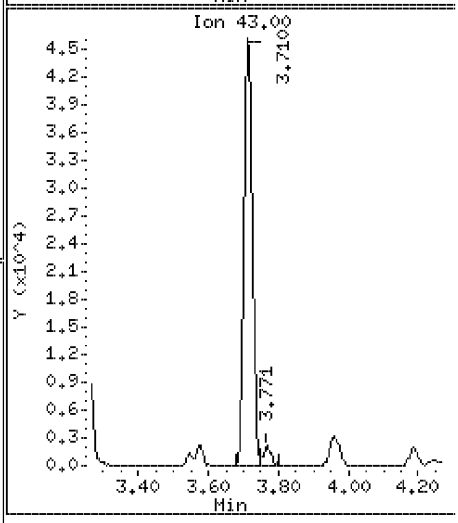
19 Isopropyl Alcohol

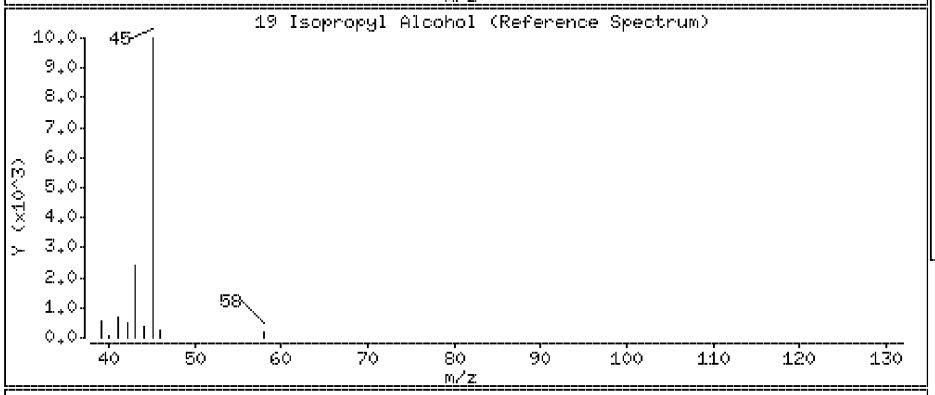
Concentration: 1.08 ppbv

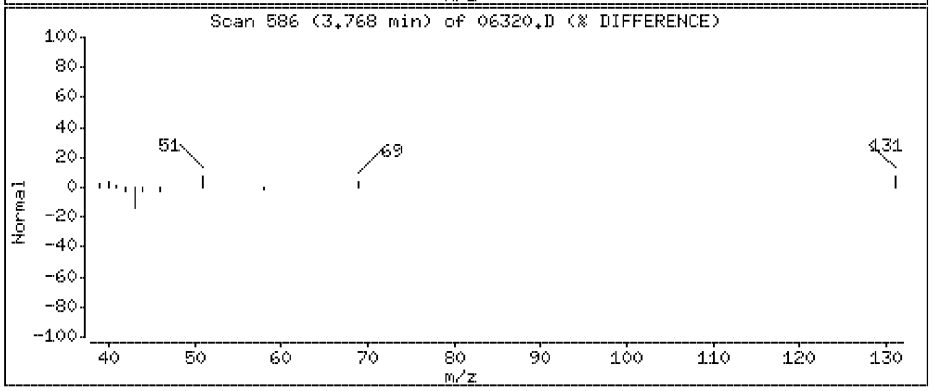












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

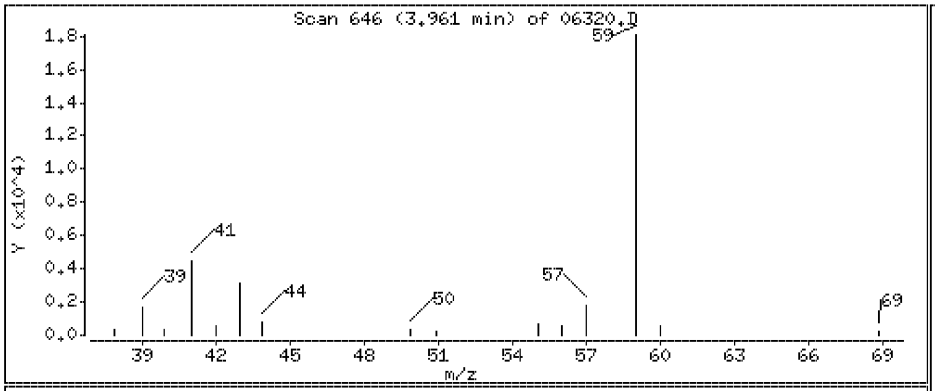
Operator: MJL

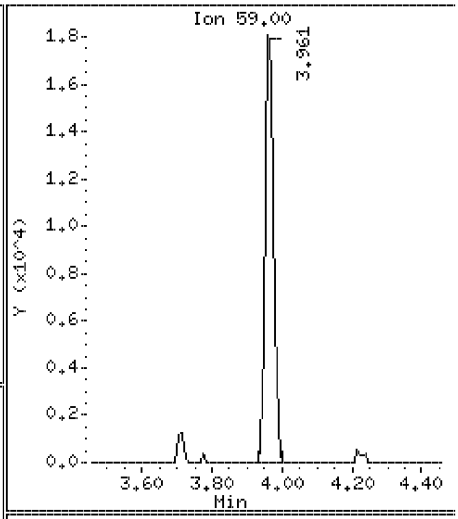
Column phase: J&W DB-5

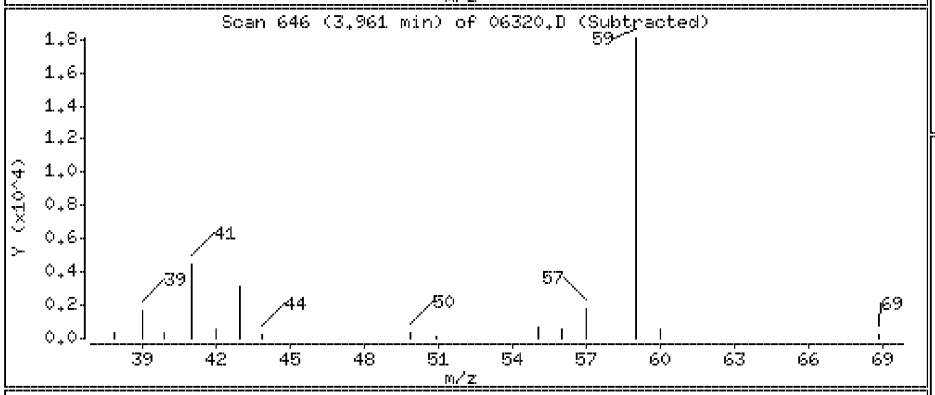
Column diameter: 0.32

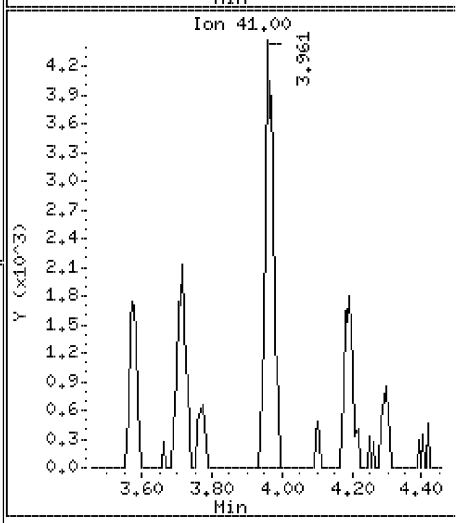
24 Tert Butyl Alcohol (TBA)

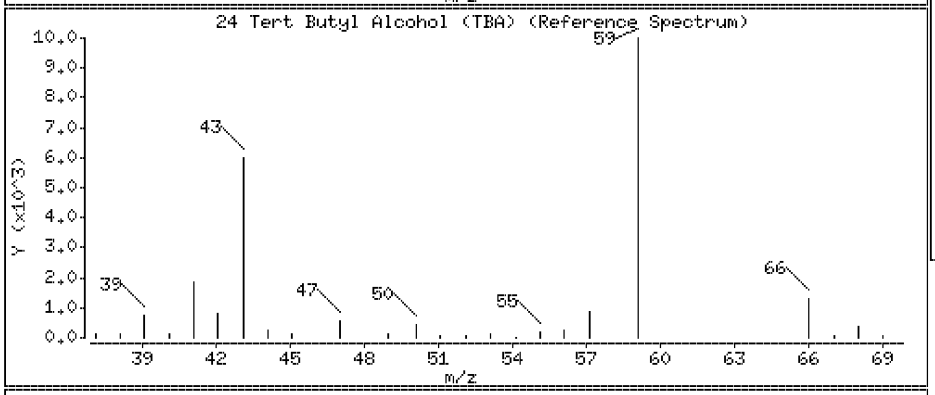
Concentration: 2.51 ppbv

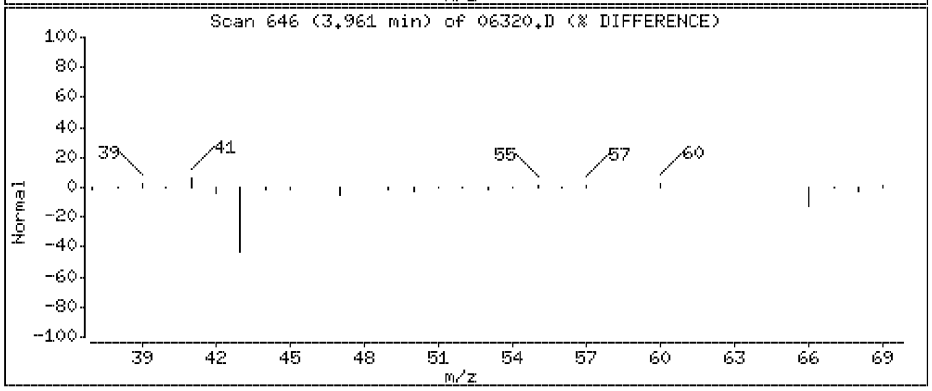












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

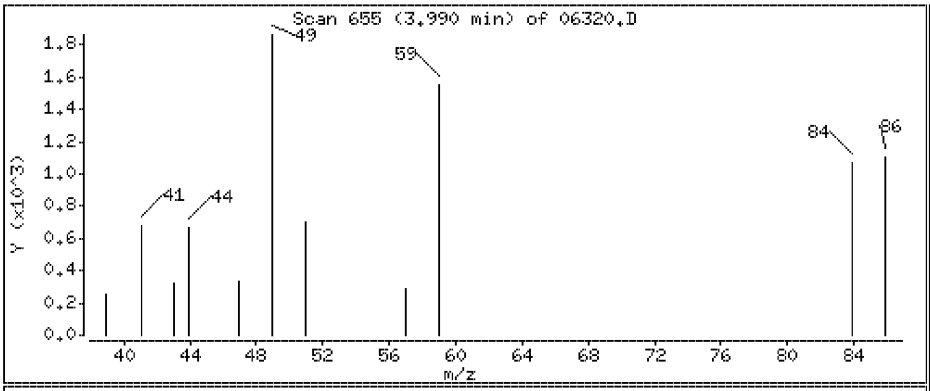
Operator: MJL

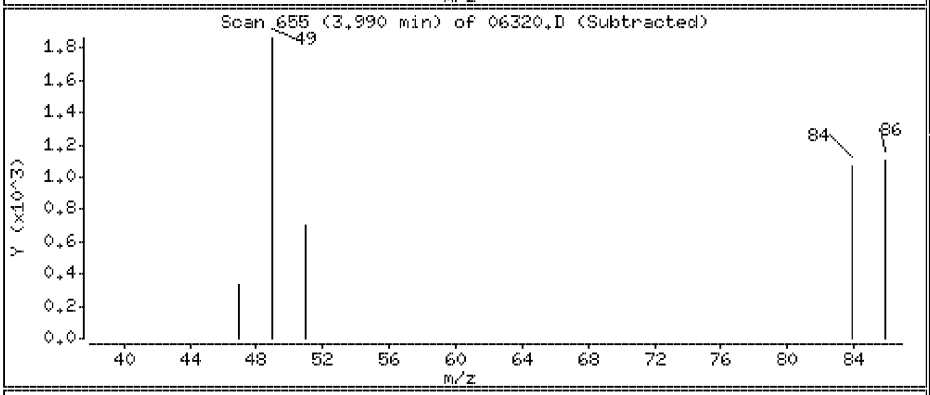
Column phase: J&W DB-5

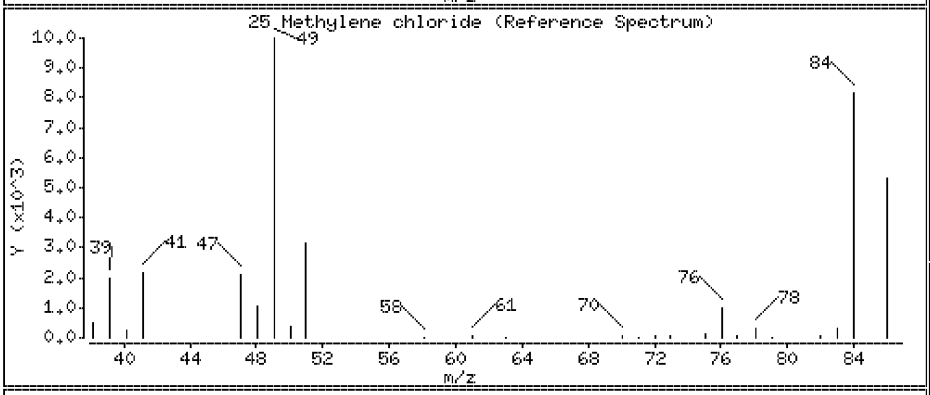
Column diameter: 0.32

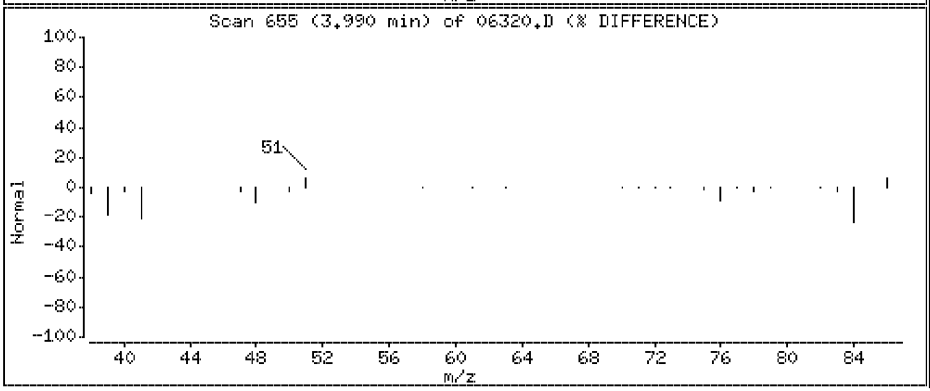
25 Methylene chloride

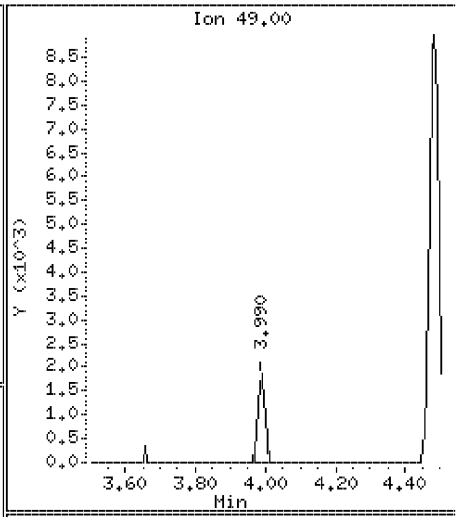
Concentration: 0.397 ppbv

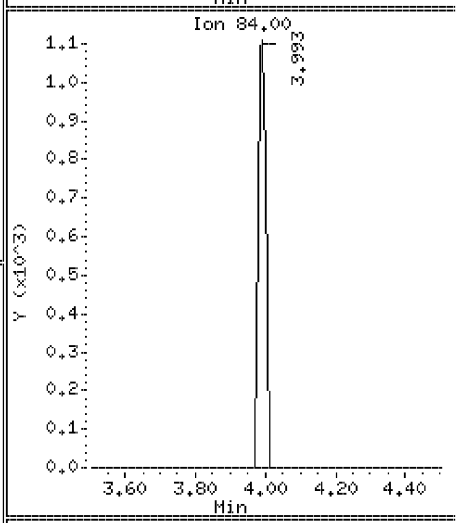


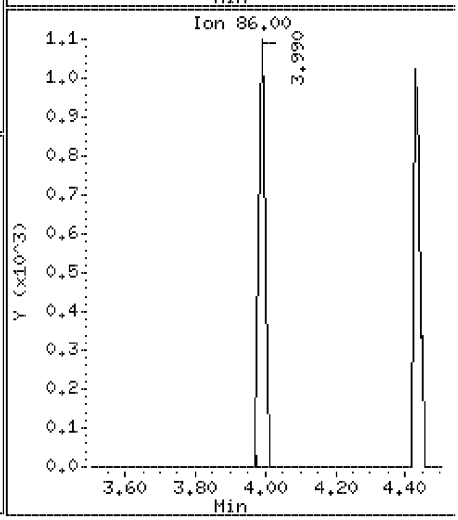












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

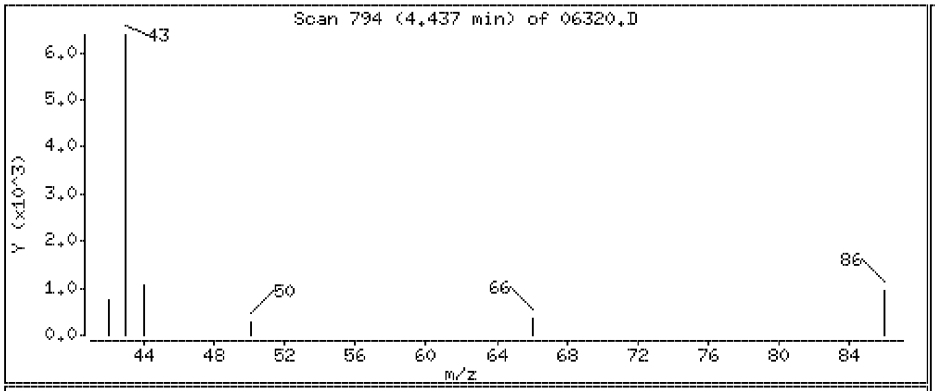
Operator: MJL

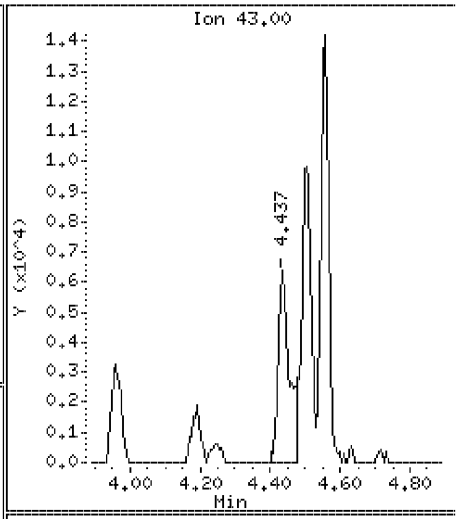
Column phase: J&W DB-5

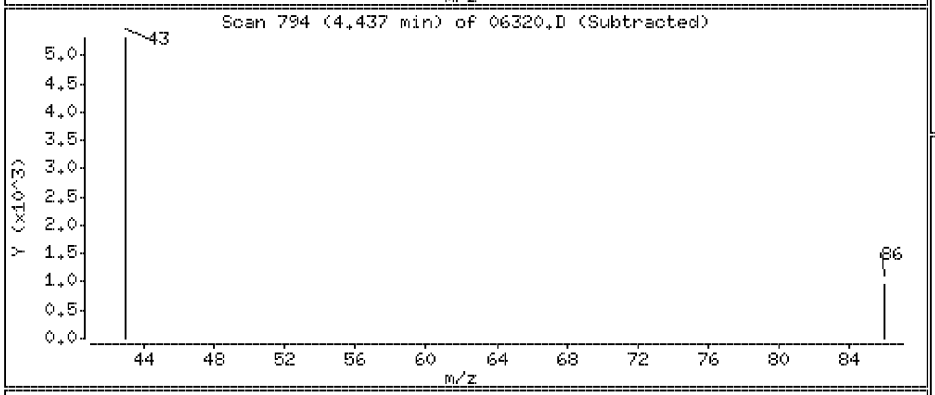
Column diameter: 0.32

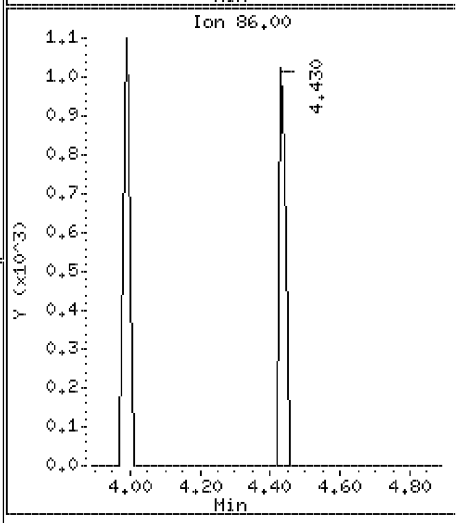
30 Vinyl Acetate

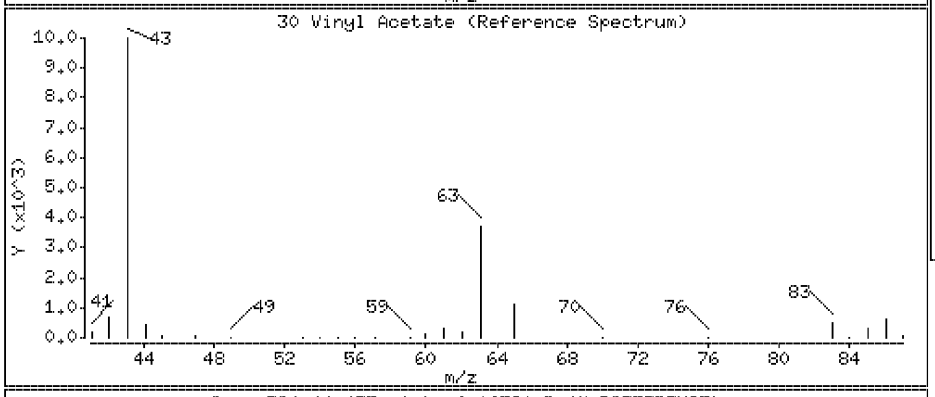
Concentration: 1.27 ppbv

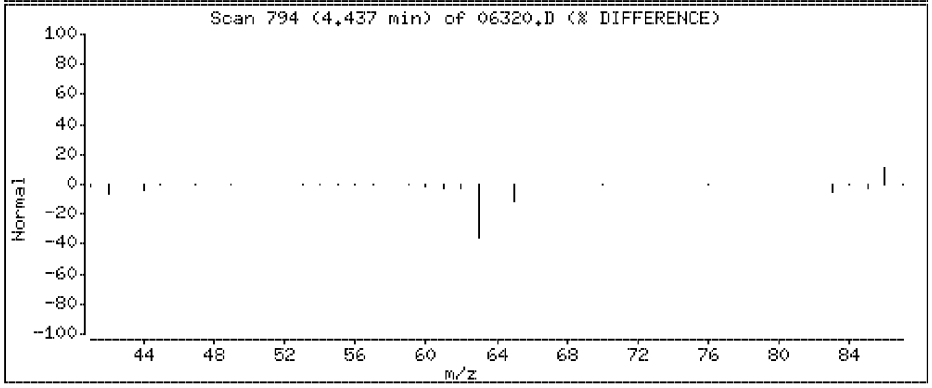












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

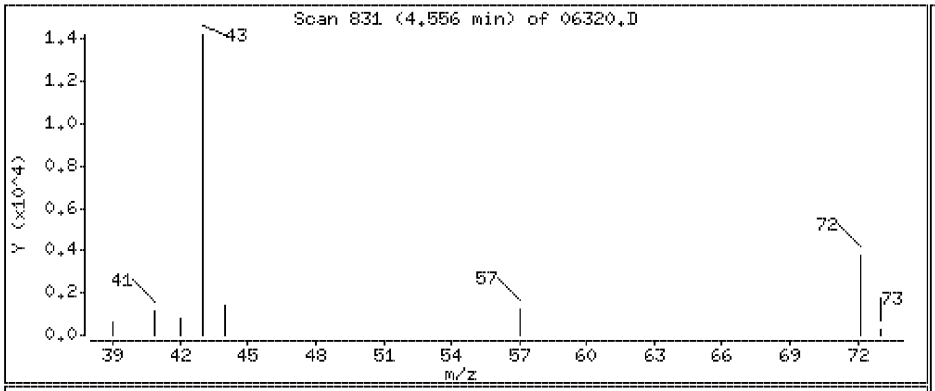
Operator: MJL

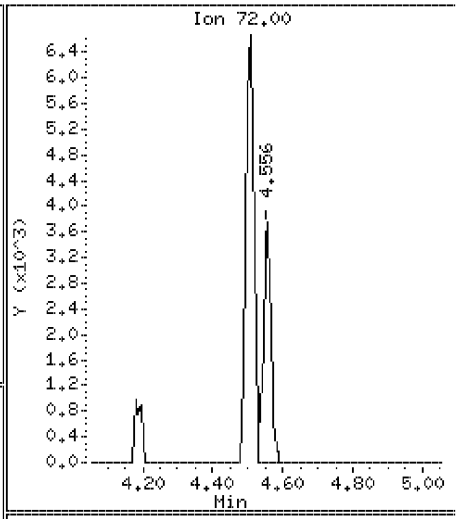
Column phase: J&W DB-5

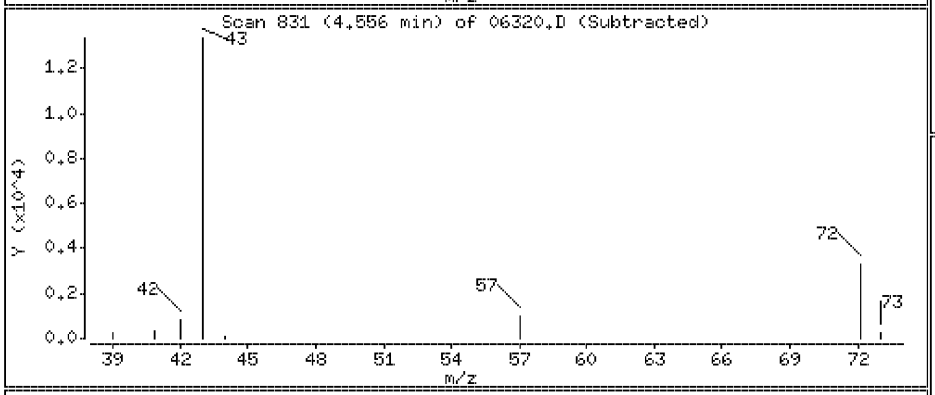
Column diameter: 0.32

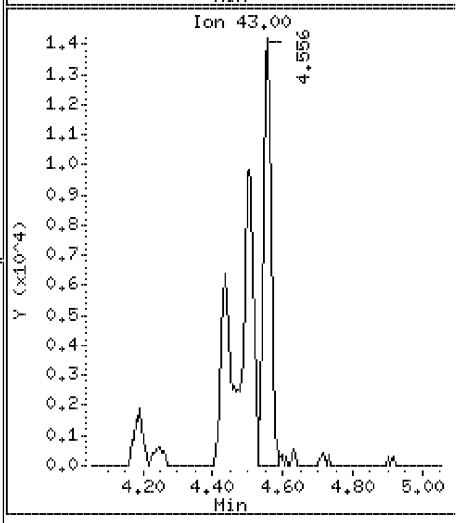
33 Methyl Ethyl Ketone

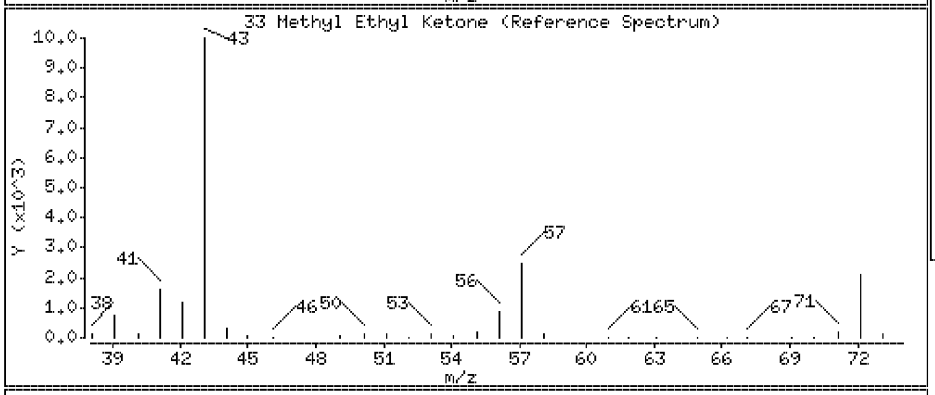
Concentration: 2.12 ppbv

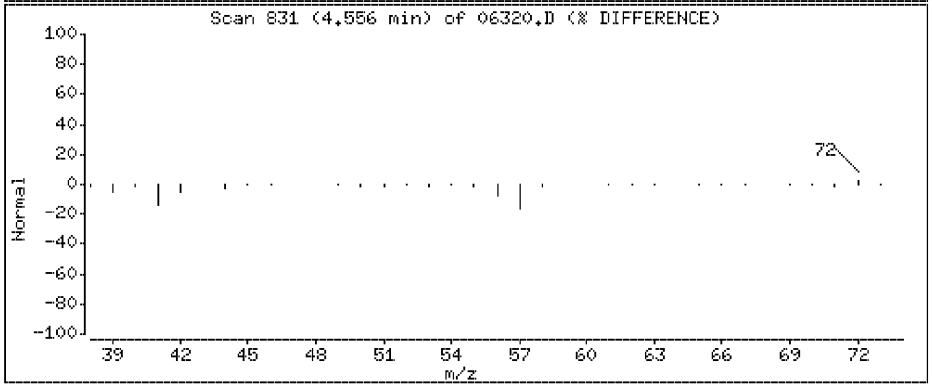












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

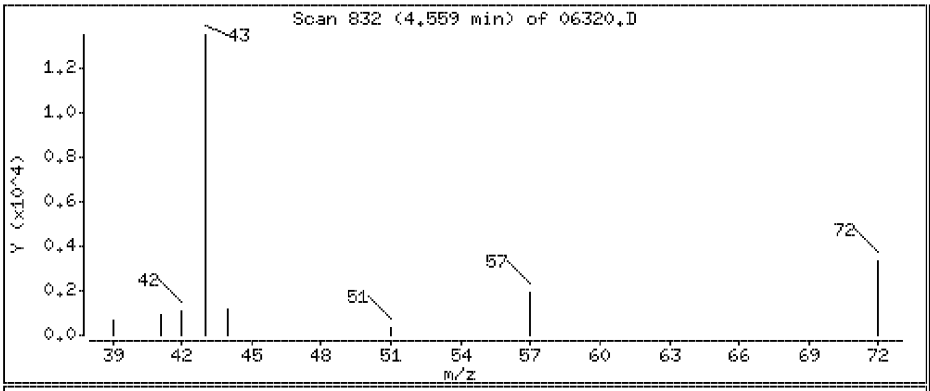
Operator: MJL

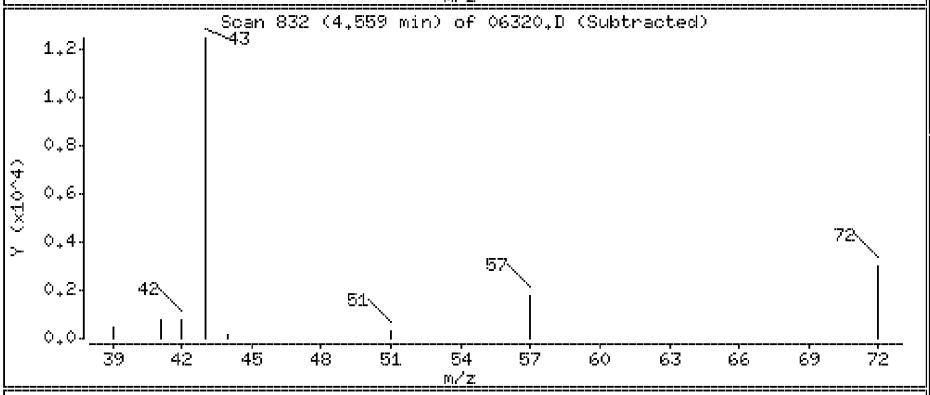
Column phase: J&W DB-5

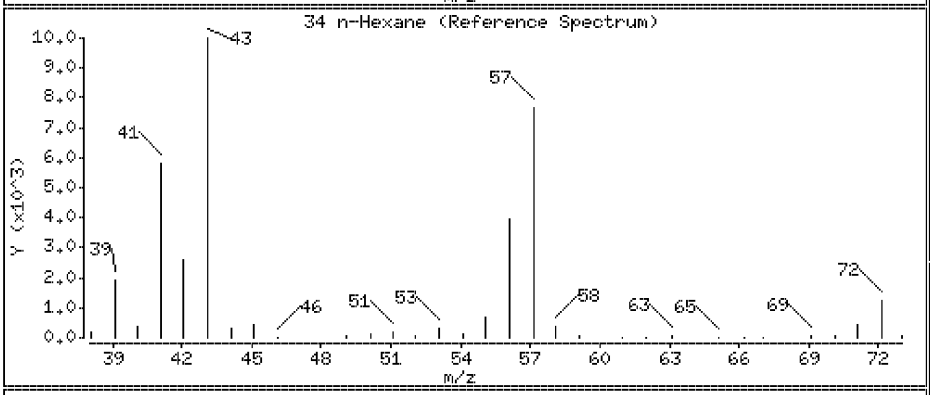
Column diameter: 0.32

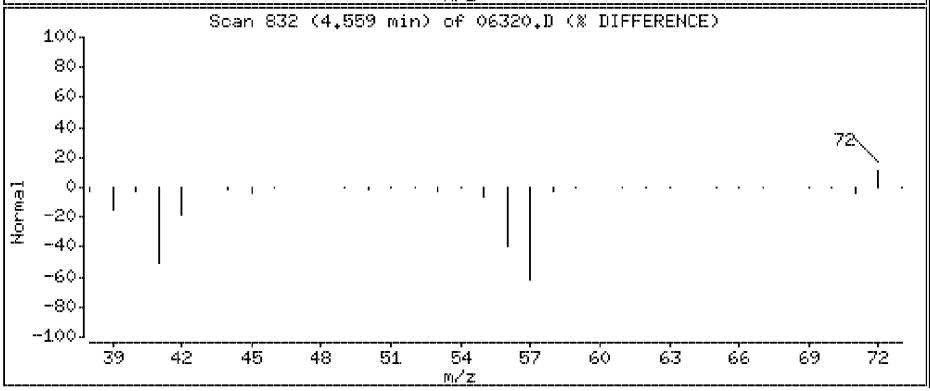
34 n-Hexane

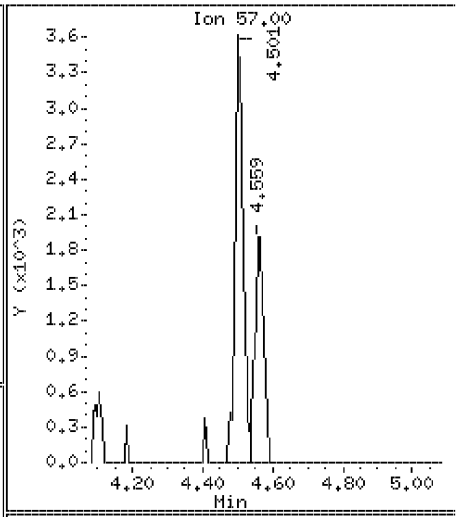
Concentration: 0.340 ppbv

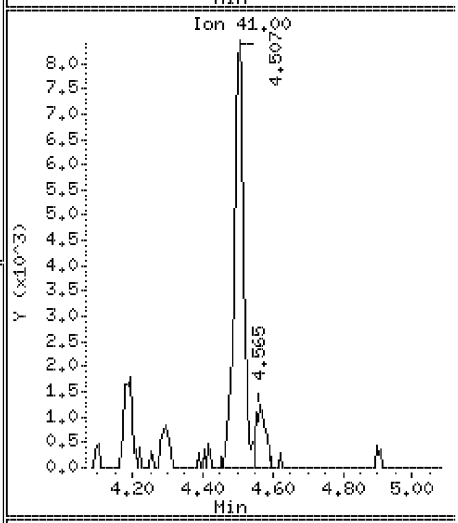


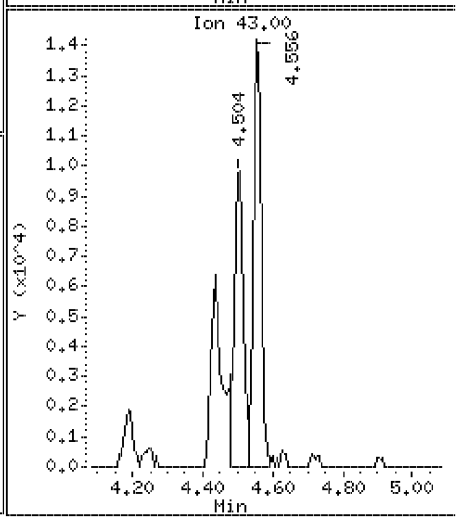












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

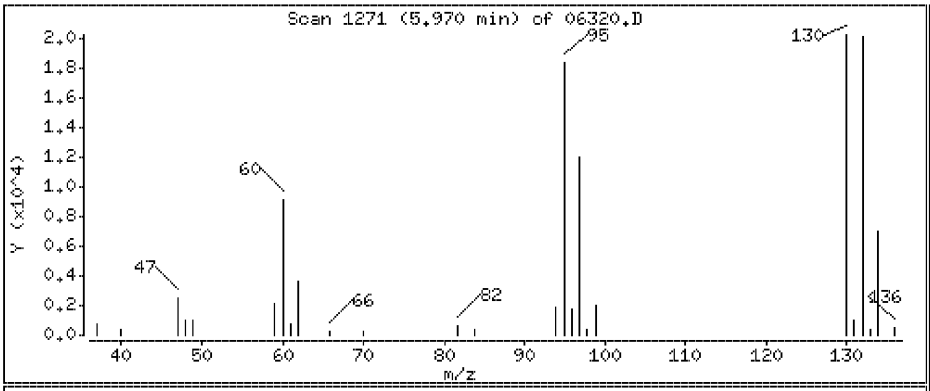
Operator: MJL

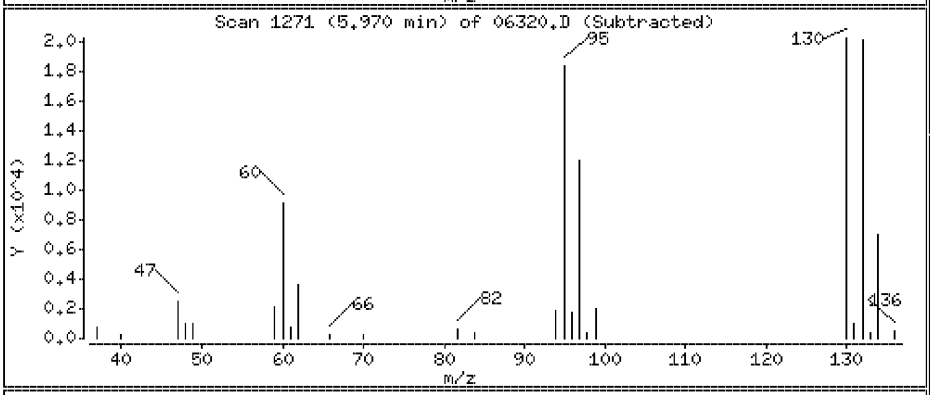
Column phase: J&W DB-5

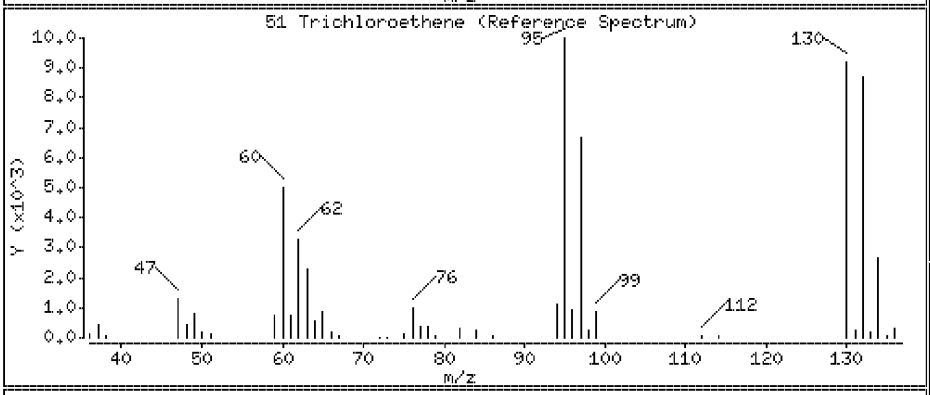
Column diameter: 0.32

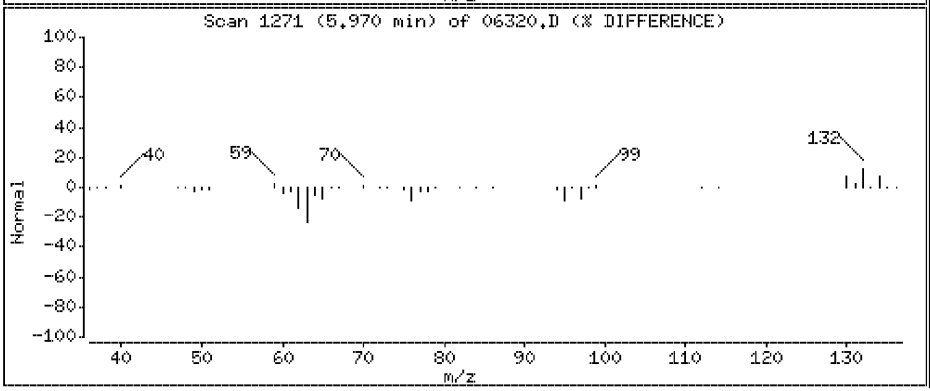
51 Trichloroethene

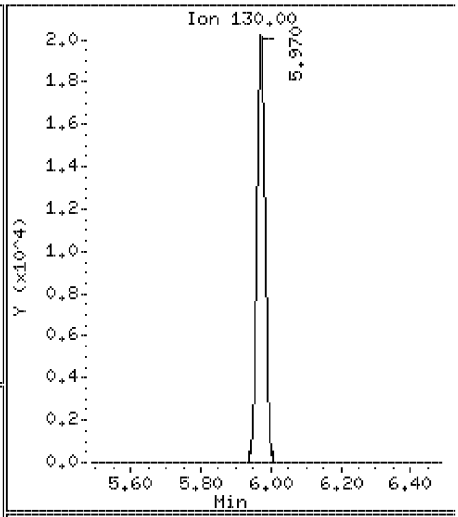
Concentration: 3.35 ppbv

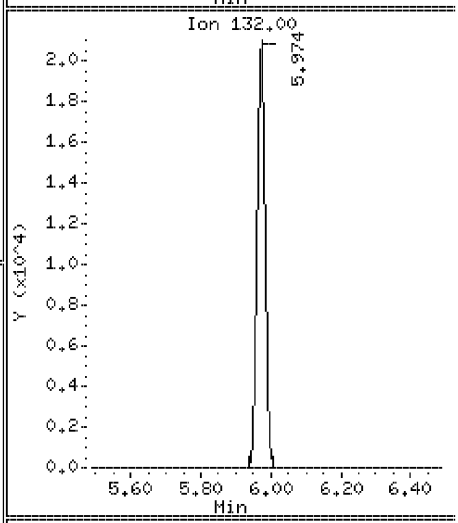


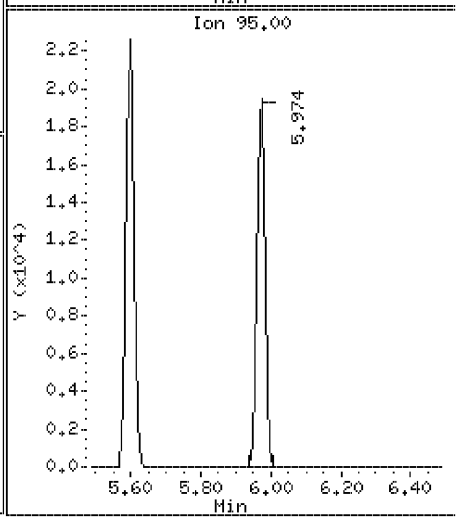












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

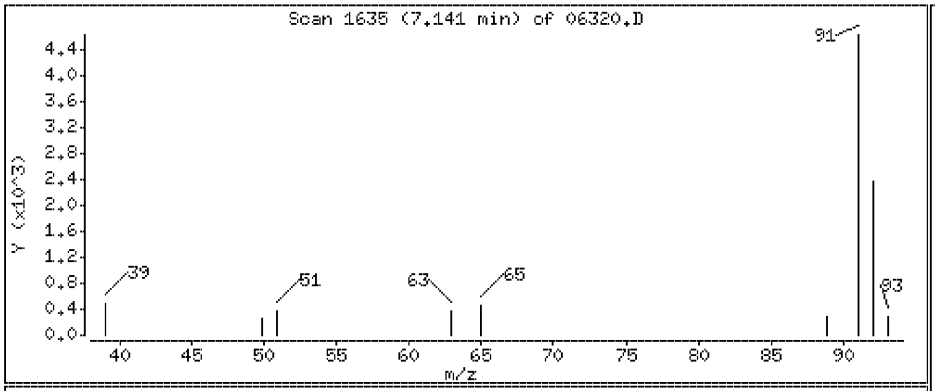
Operator: MJL

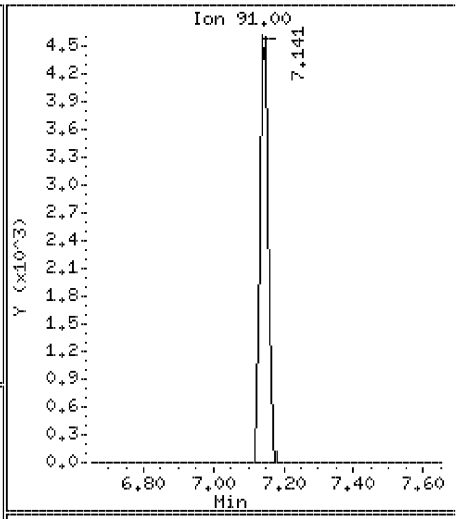
Column phase: J&W DB-5

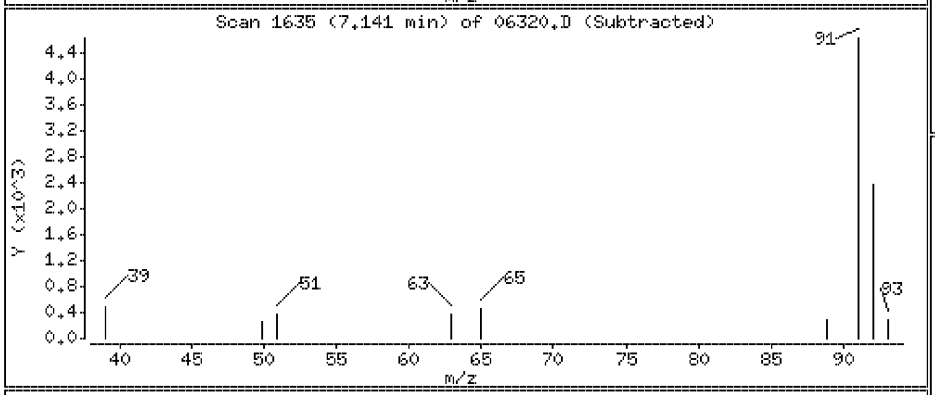
Column diameter: 0.32

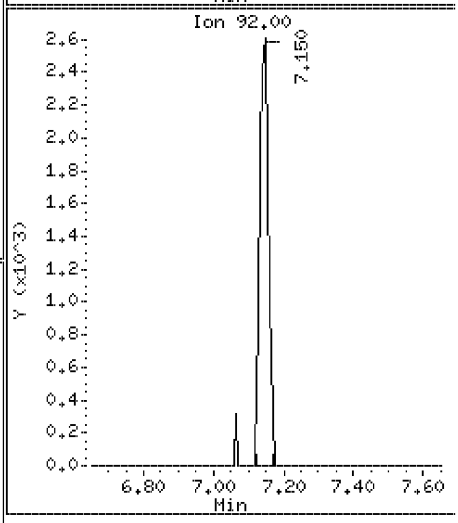
61 Toluene

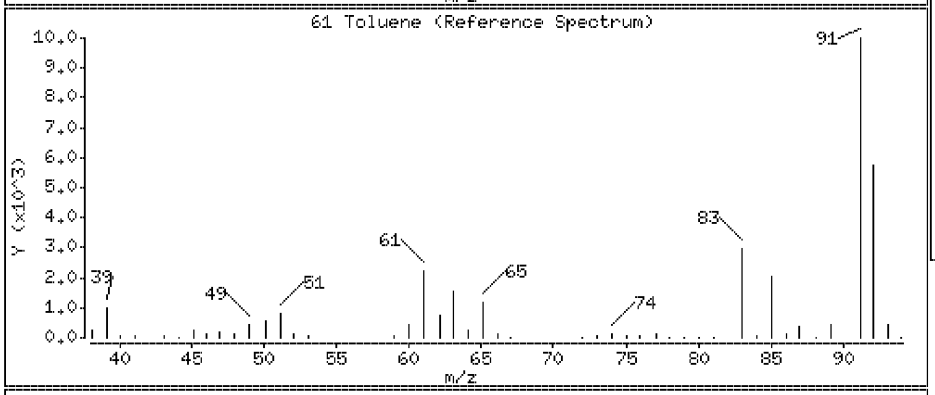
Concentration: 0.329 ppbv

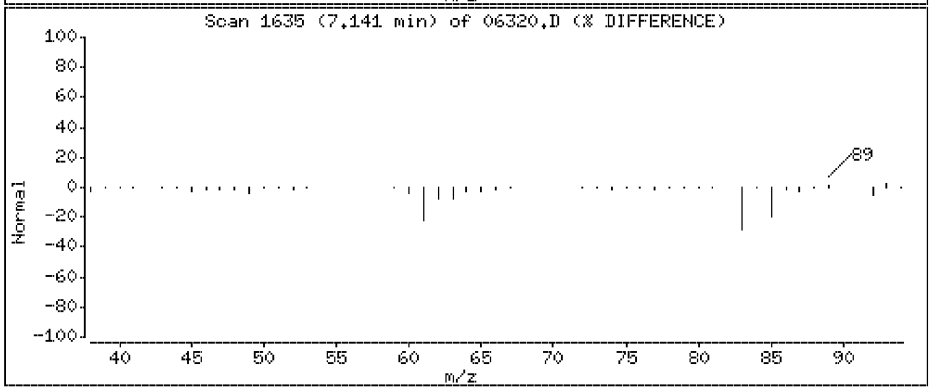












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

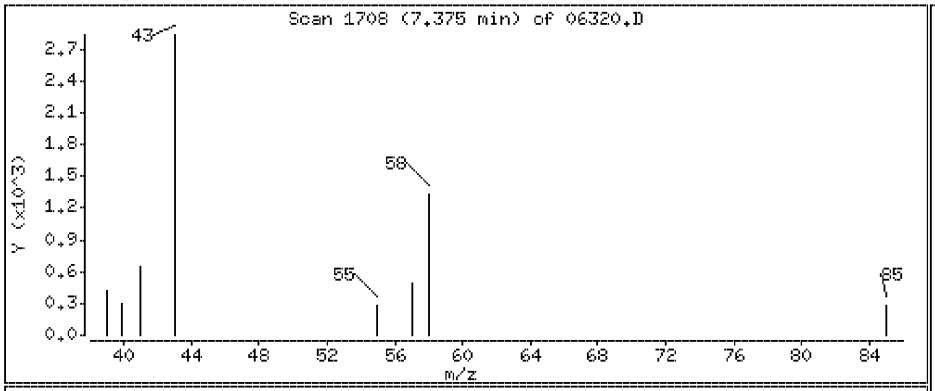
Operator: MJL

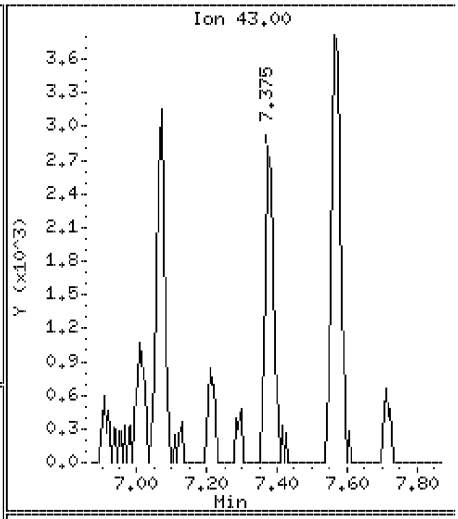
Column phase: J&W DB-5

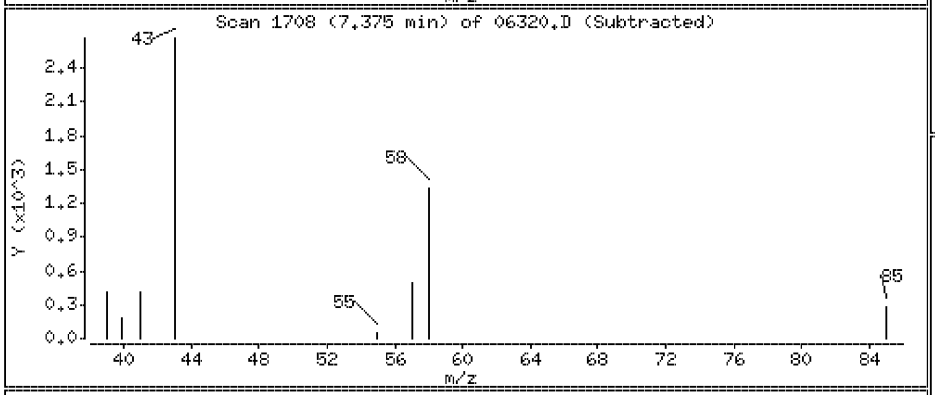
Column diameter: 0.32

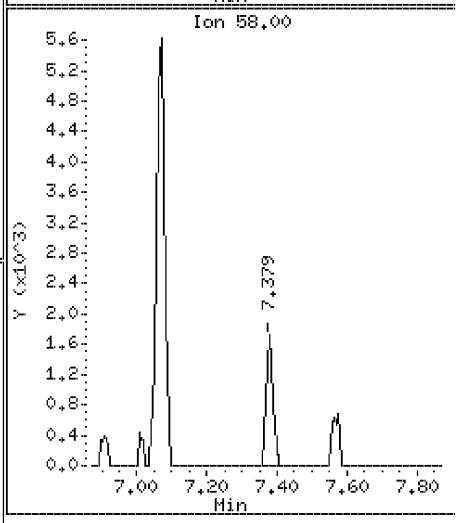
62 Methyl Butyl Ketone

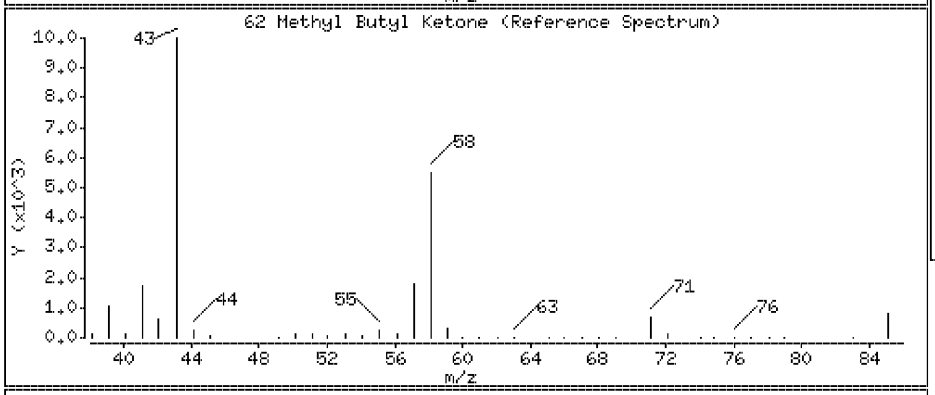
Concentration: 0.384 ppbv

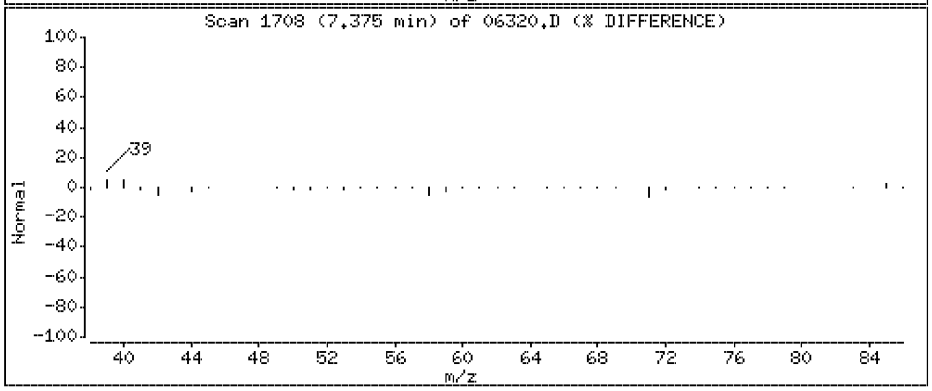












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

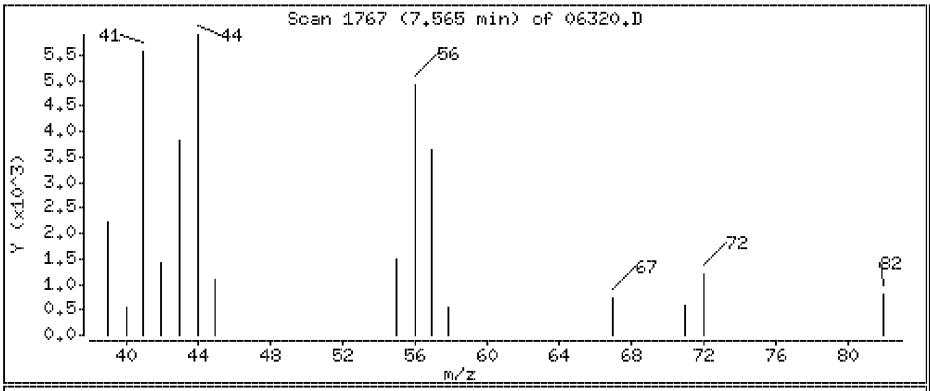
Operator: MJL

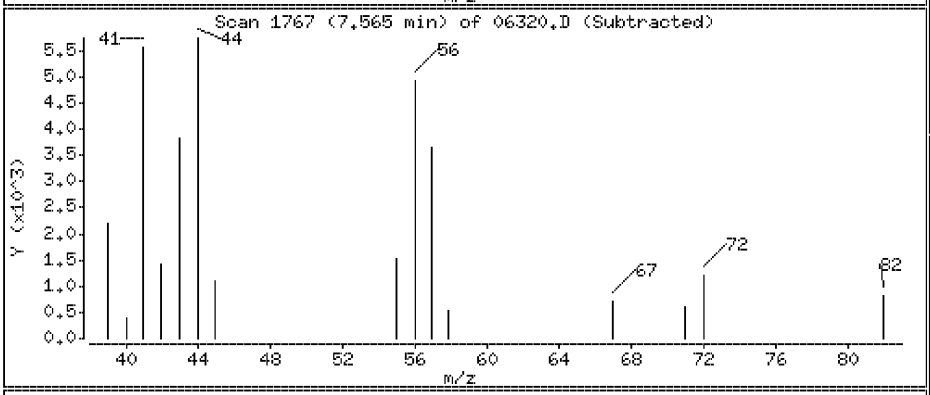
Column phase: J&W DB-5

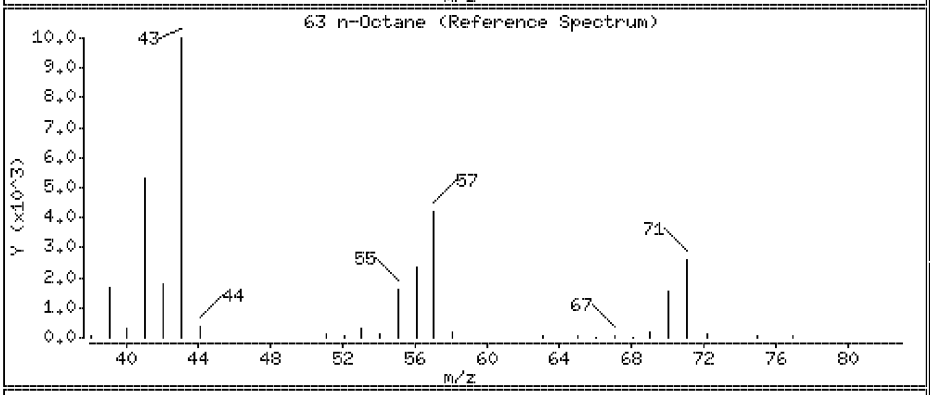
Column diameter: 0.32

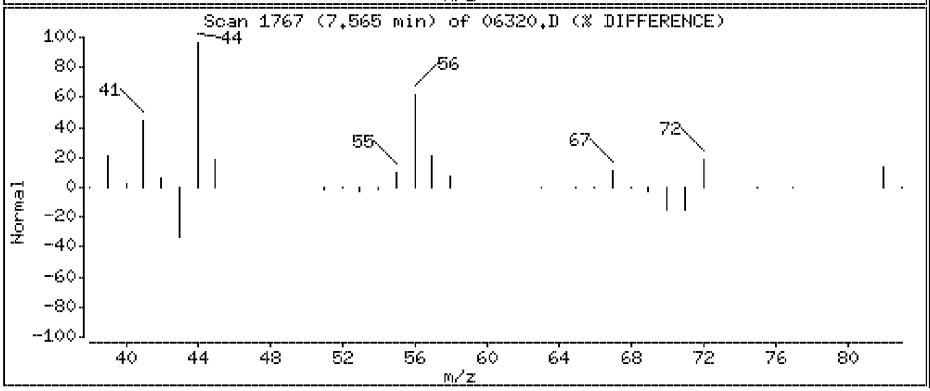
63 n-Octane

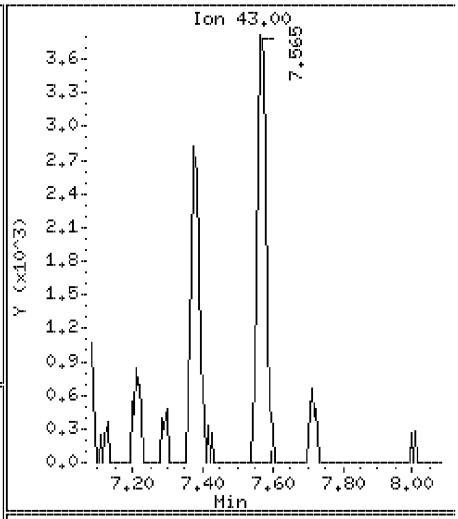
Concentration: 0.509 ppbv

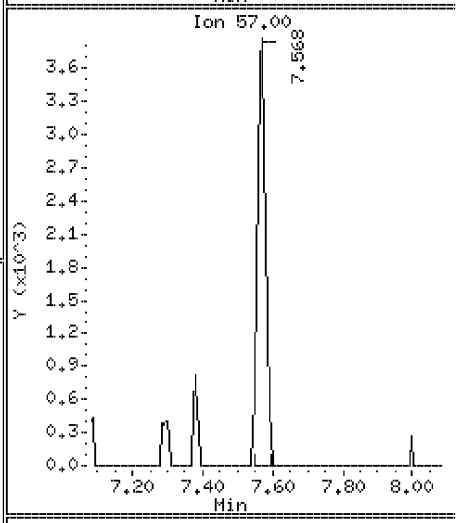


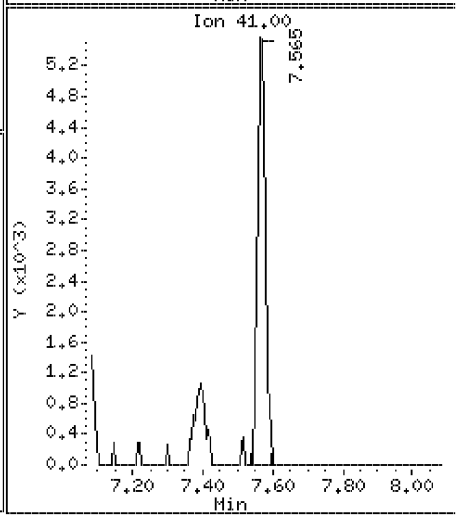












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

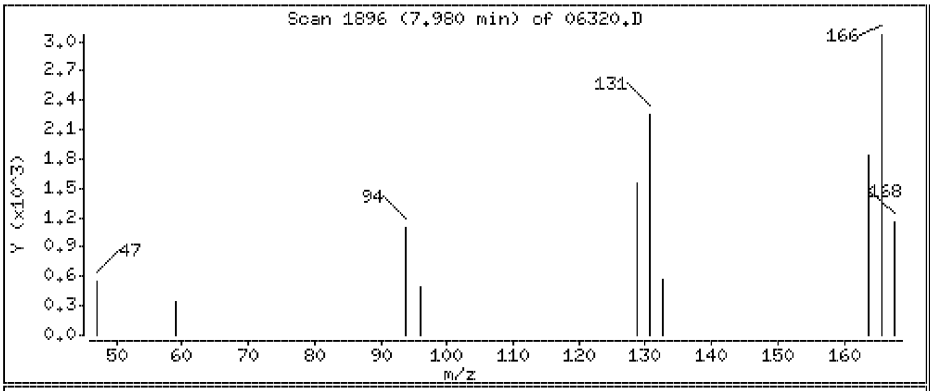
Operator: MJL

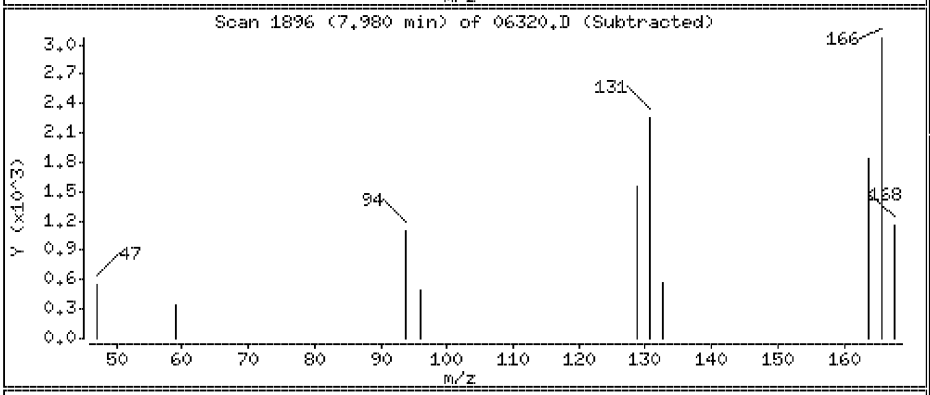
Column phase: J&W DB-5

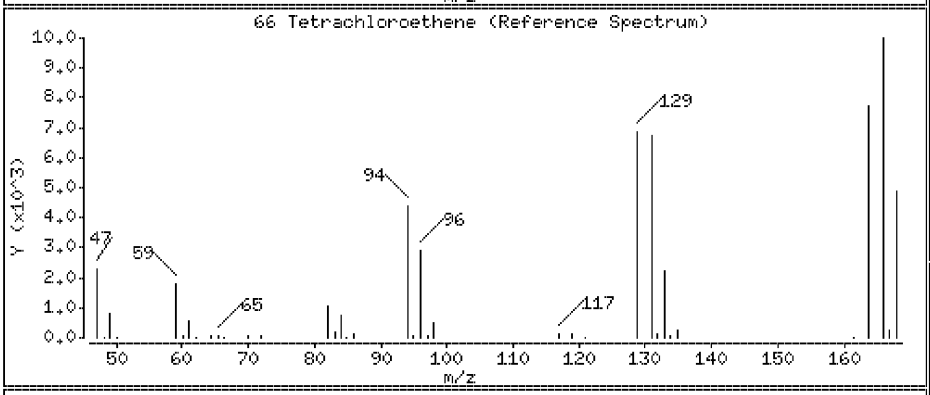
Column diameter: 0.32

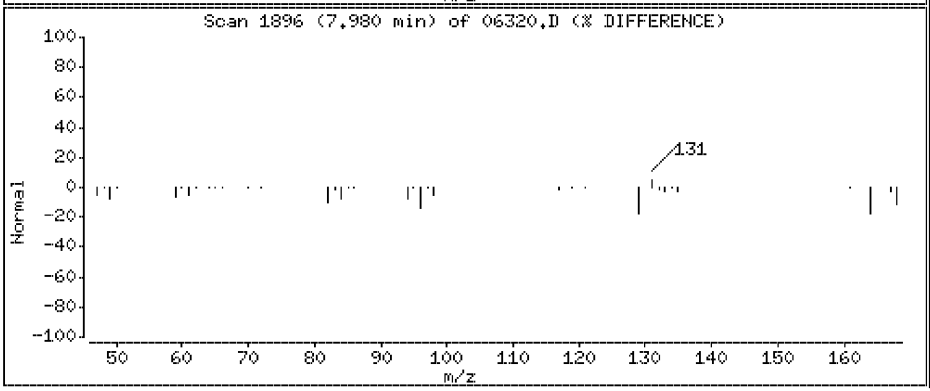
66 Tetrachloroethene

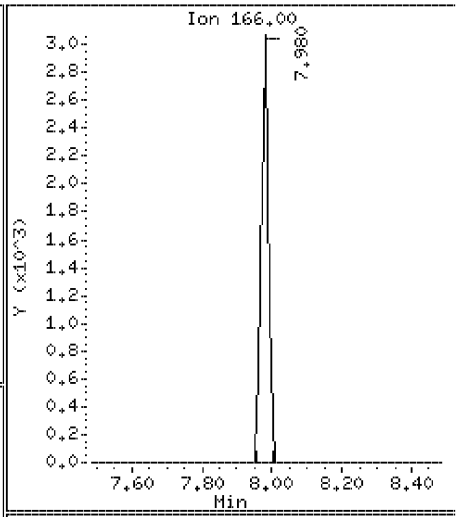
Concentration: 0.329 ppbv

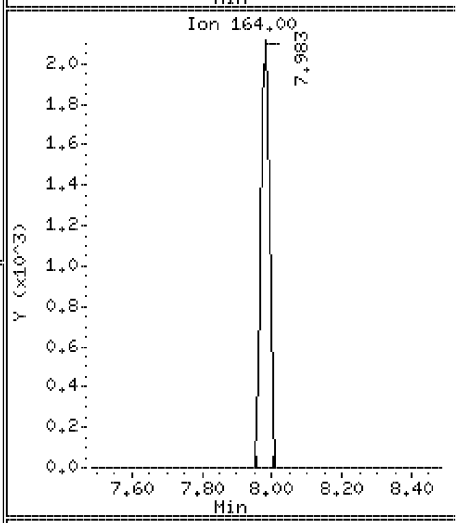


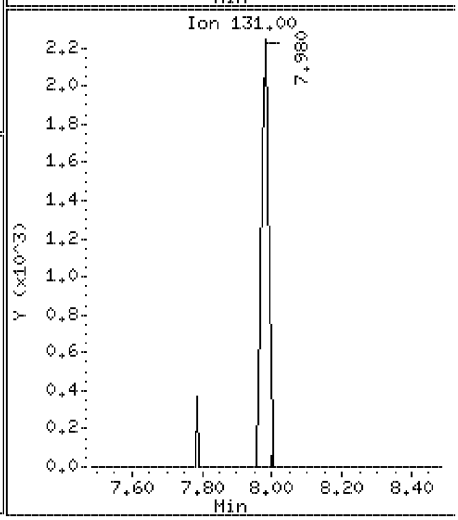












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

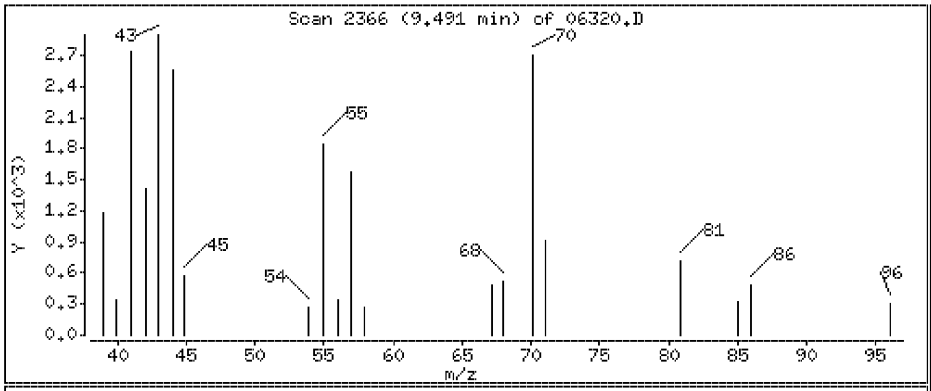
Operator: MJL

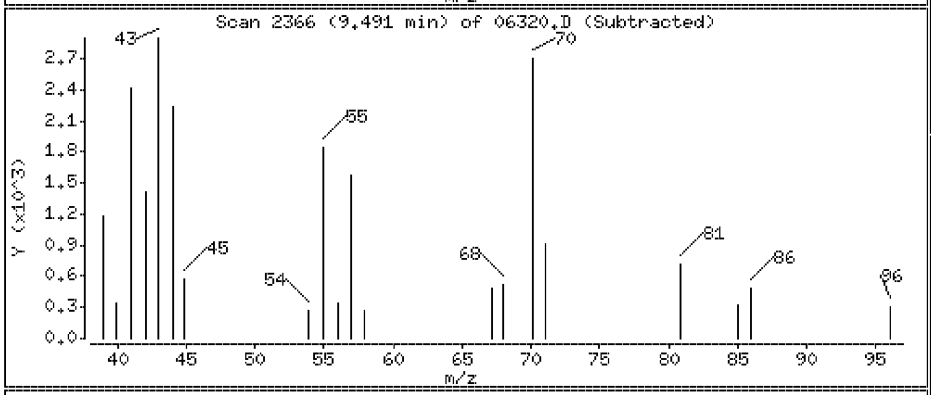
Column phase: J&W DB-5

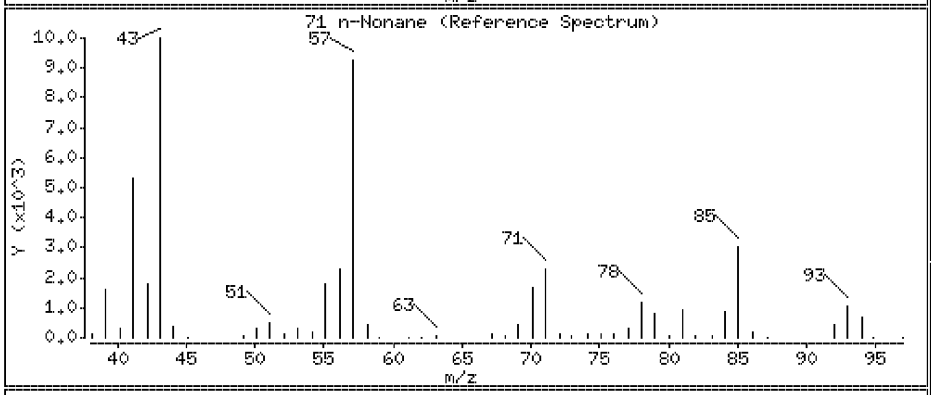
Column diameter: 0.32

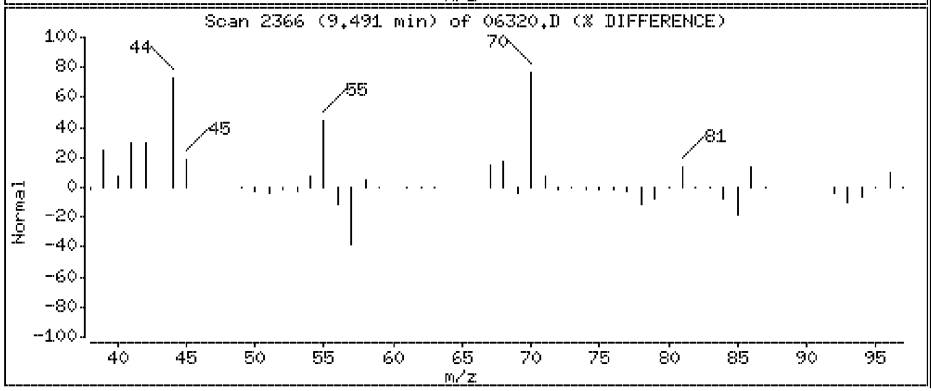
71 n-Nonane

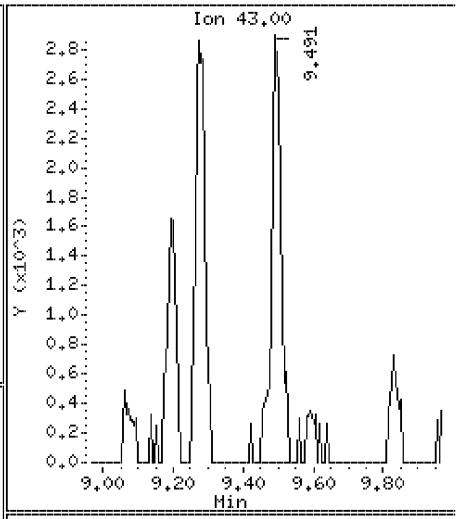
Concentration: 0.467 ppbv

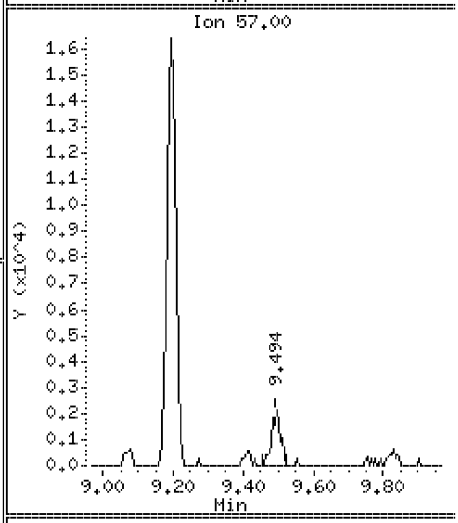


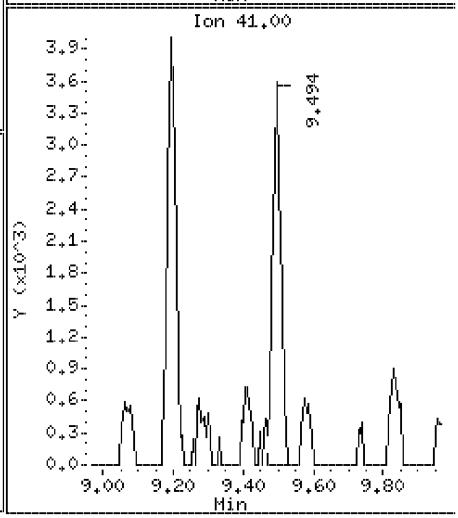












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

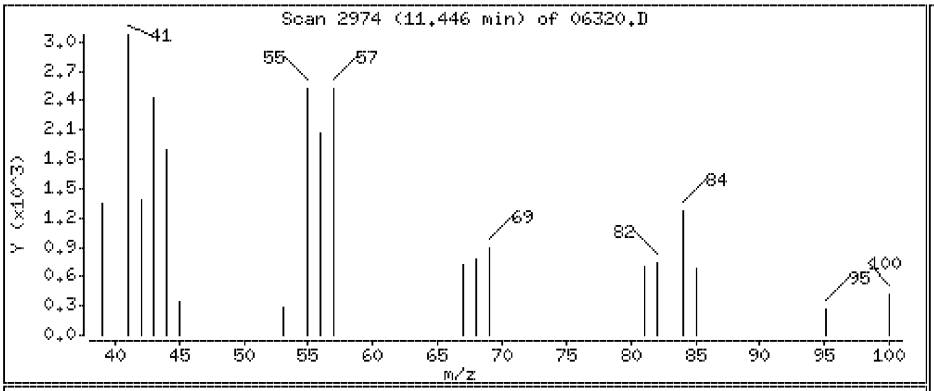
Operator: MJL

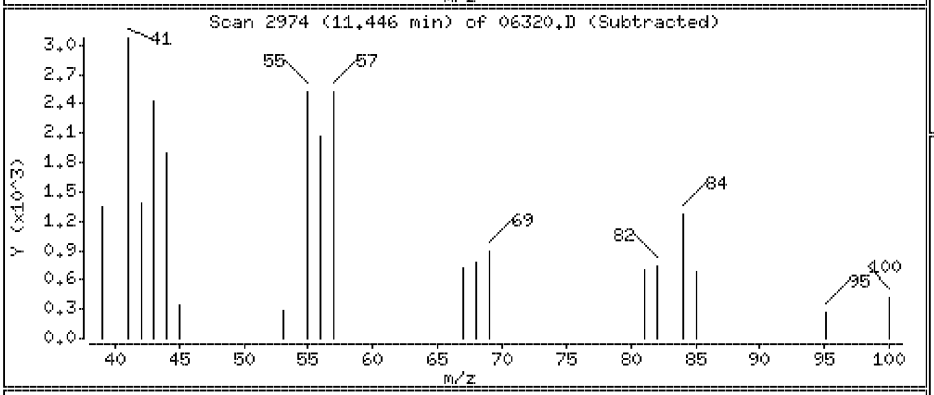
Column phase: J&W DB-5

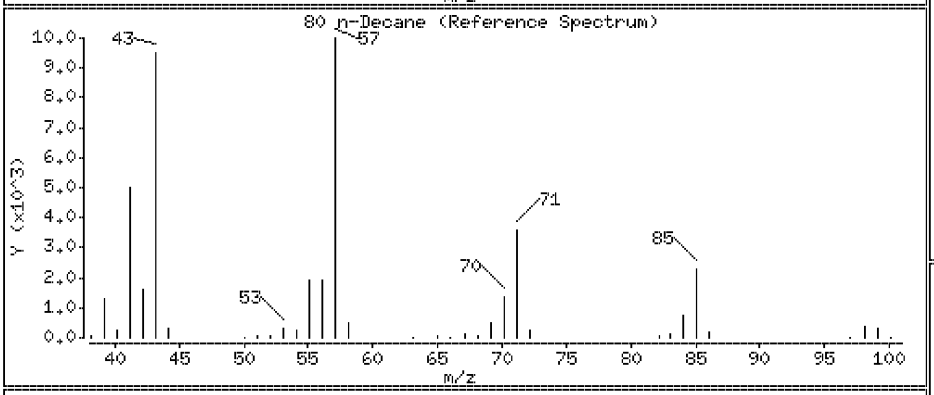
Column diameter: 0.32

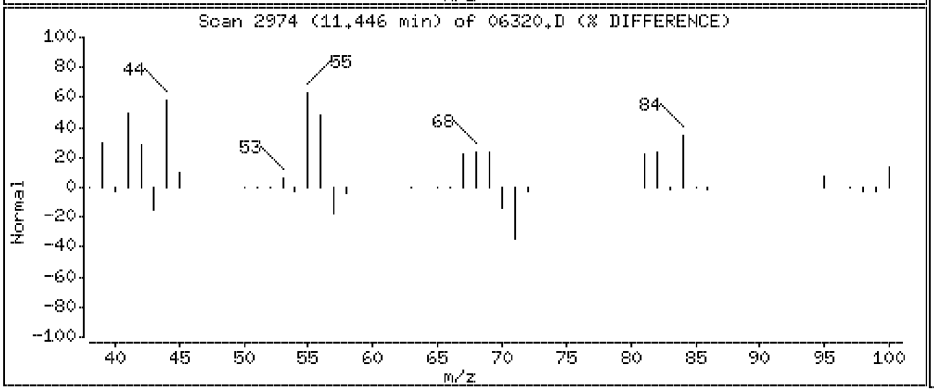
80 n-Decane

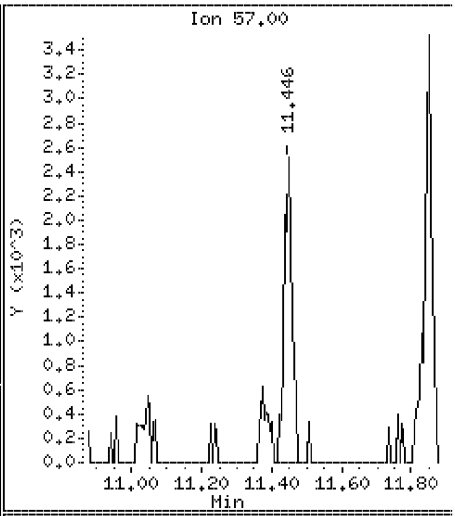
Concentration: 0.783 ppbv

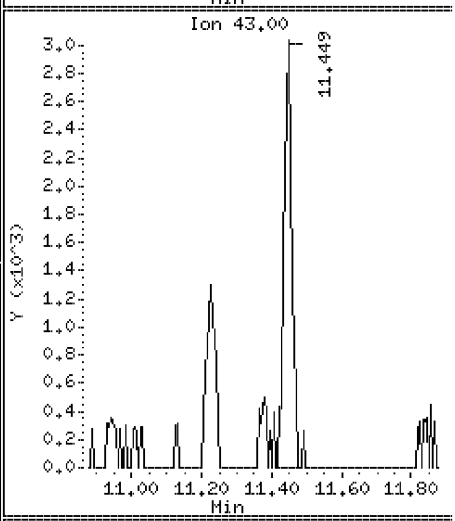


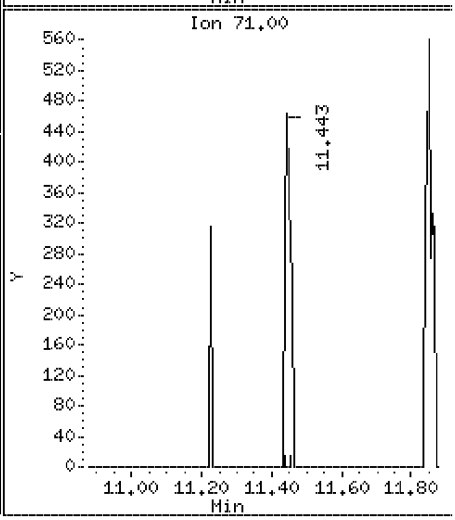












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06320.D

Date : 04-MAR-2017 16:28

Client ID:

Instrument: 10airB.i

Sample Info:

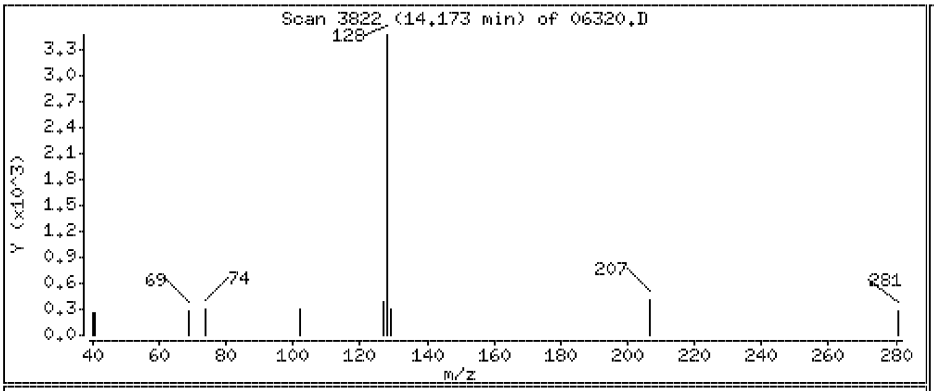
Operator: MJL

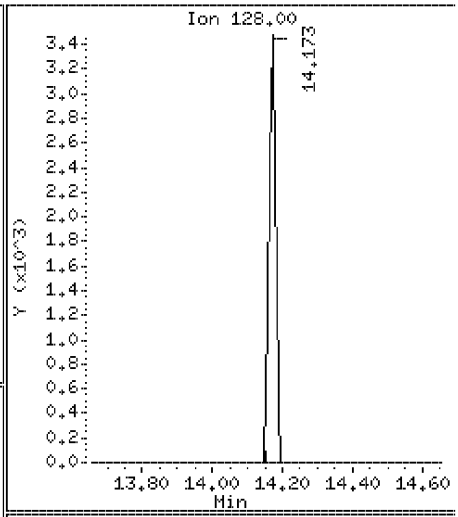
Column phase: J&W DB-5

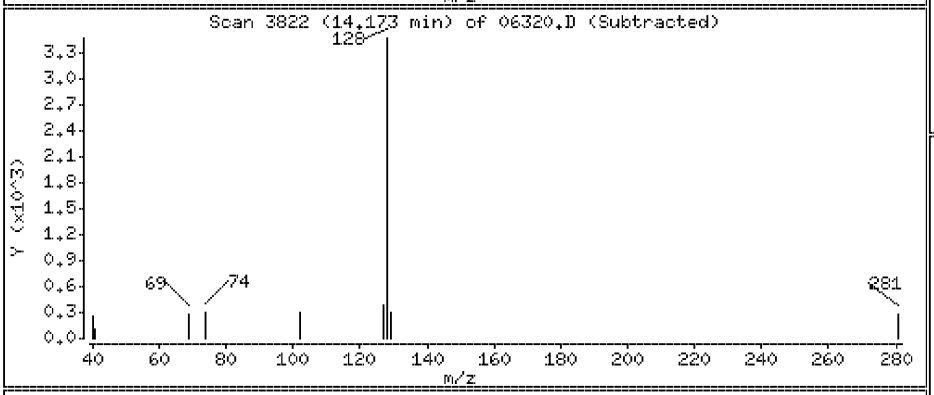
Column diameter: 0.32

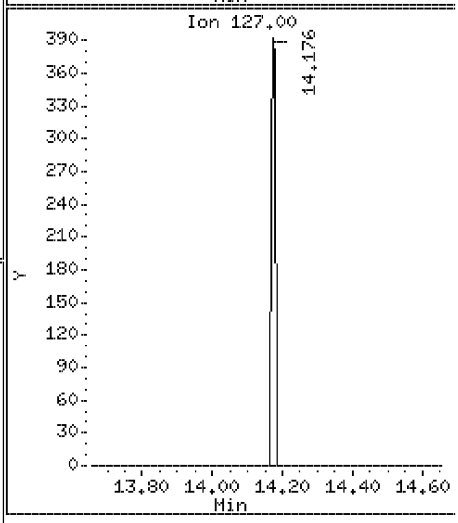
94 Naphthalene

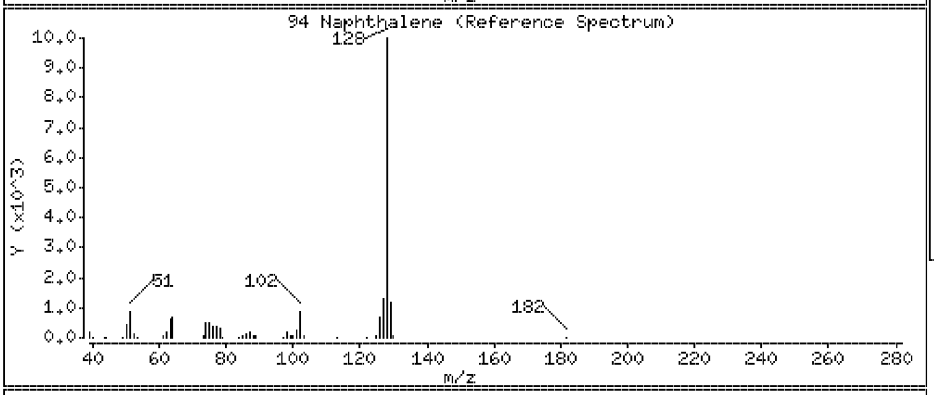
Concentration: 1.03 ppbv

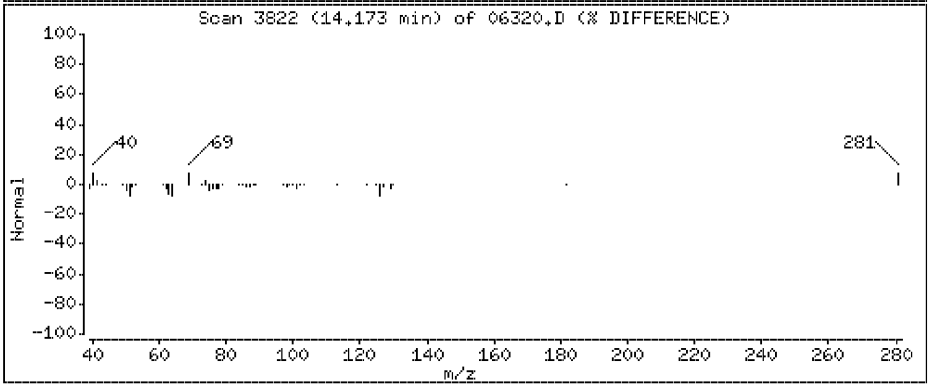






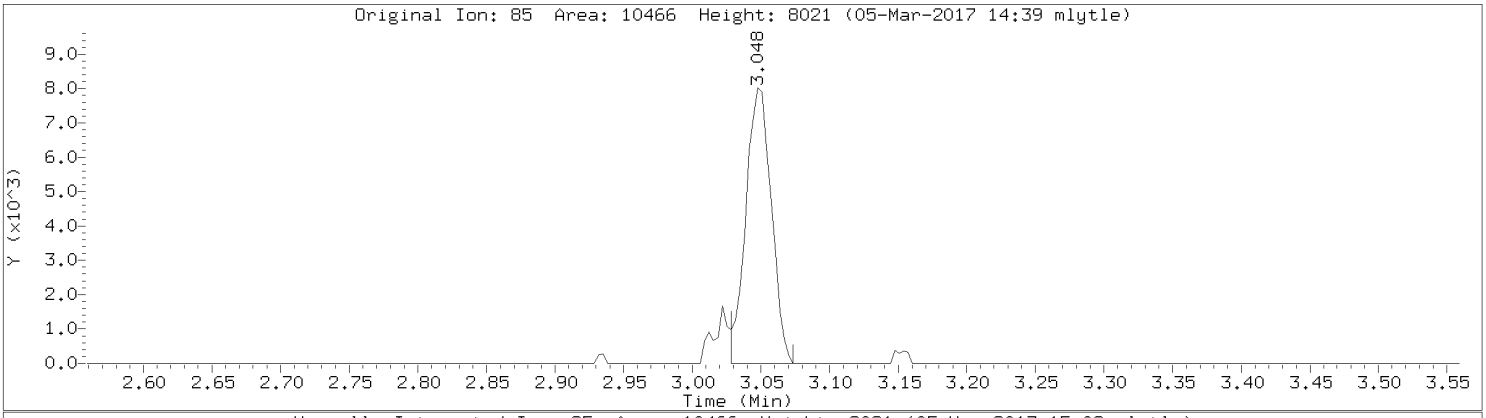


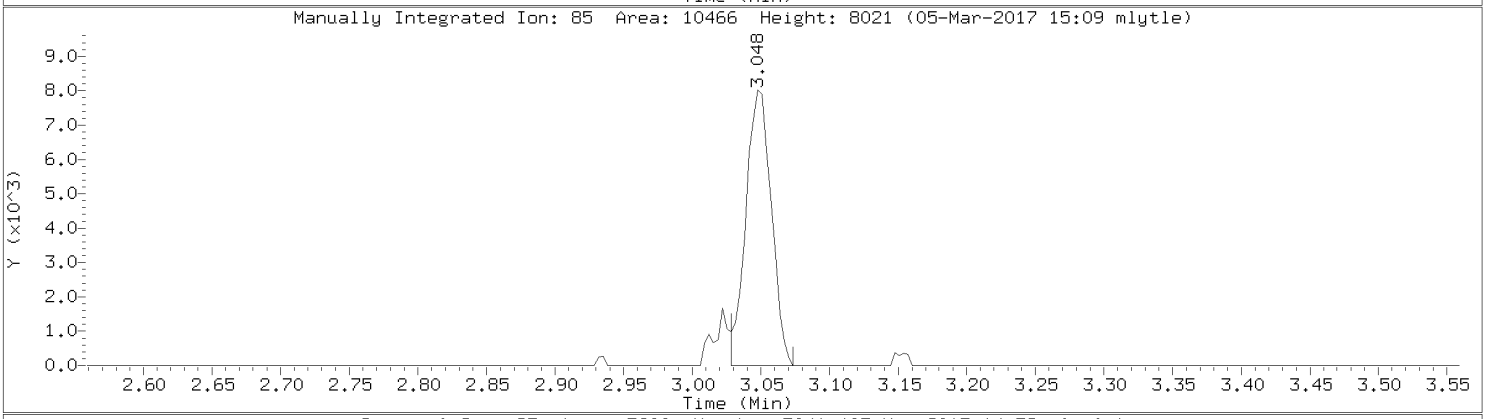


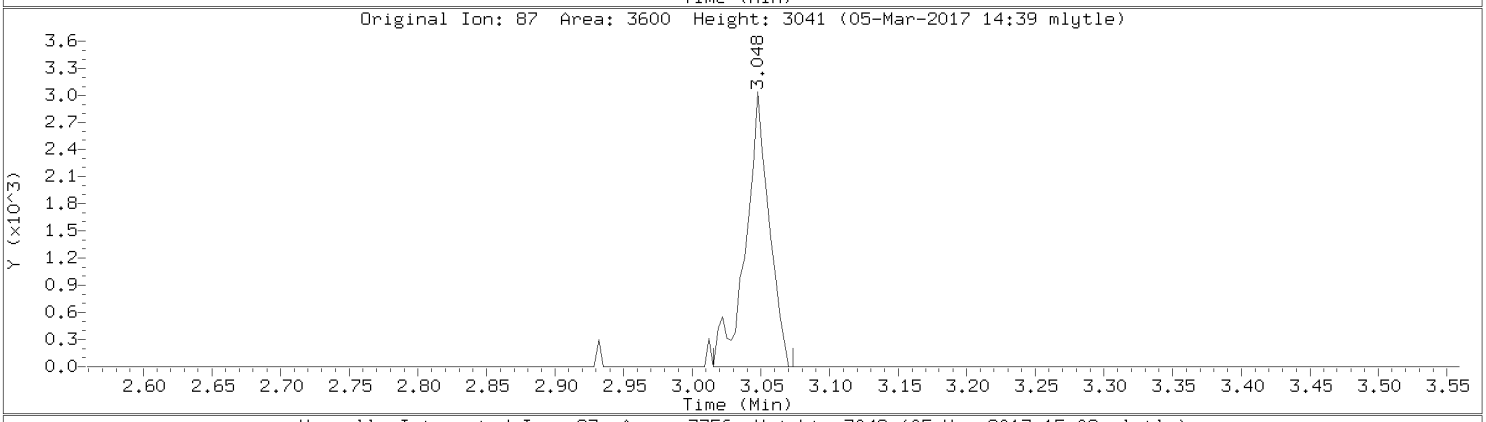


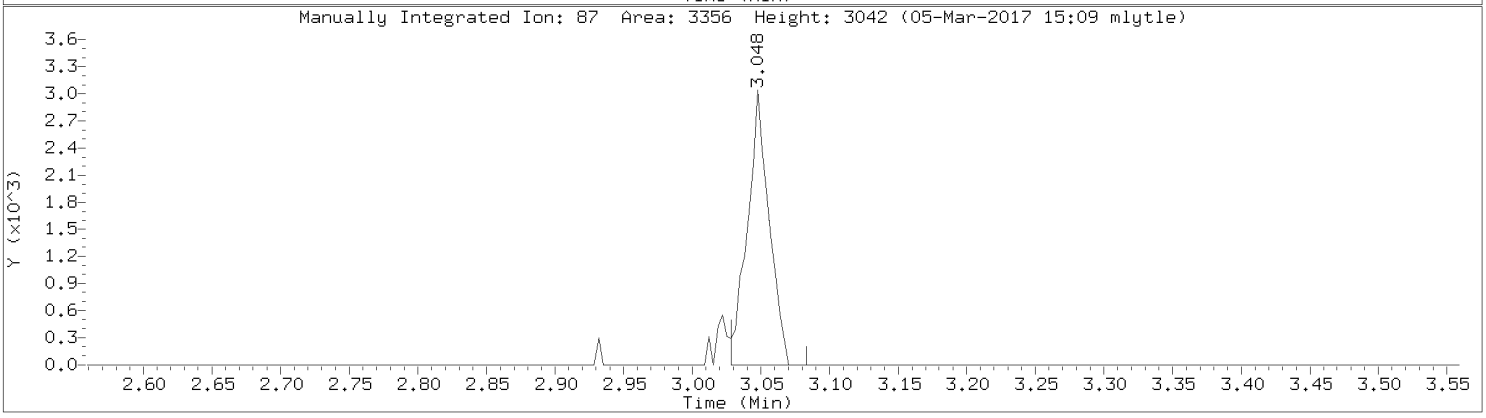
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06320.D
Injection Date: 04-MAR-2017 16:28
Instrument: 10airB.i
Lab Sample ID: 10379929013

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



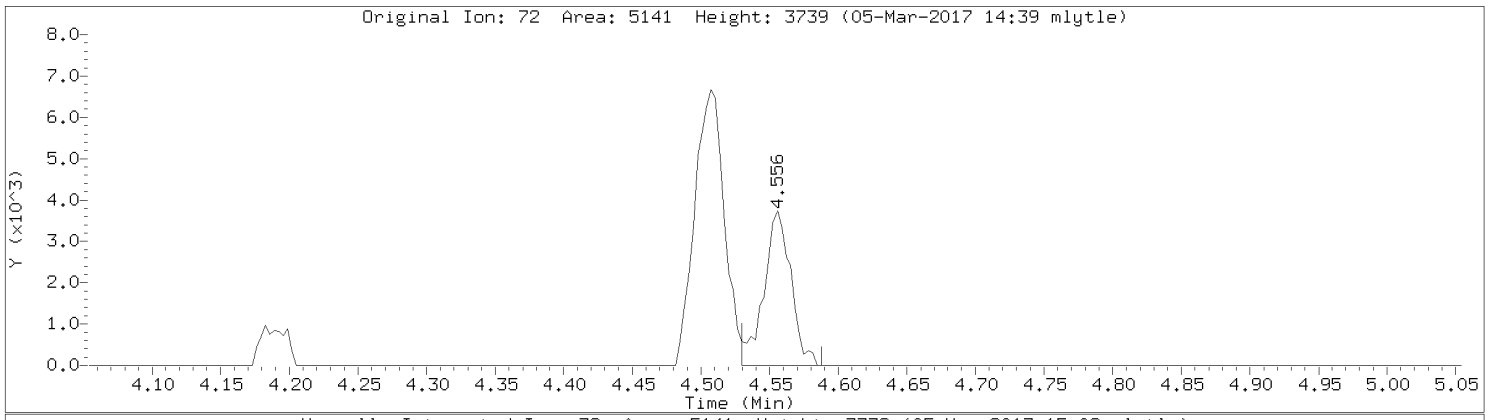


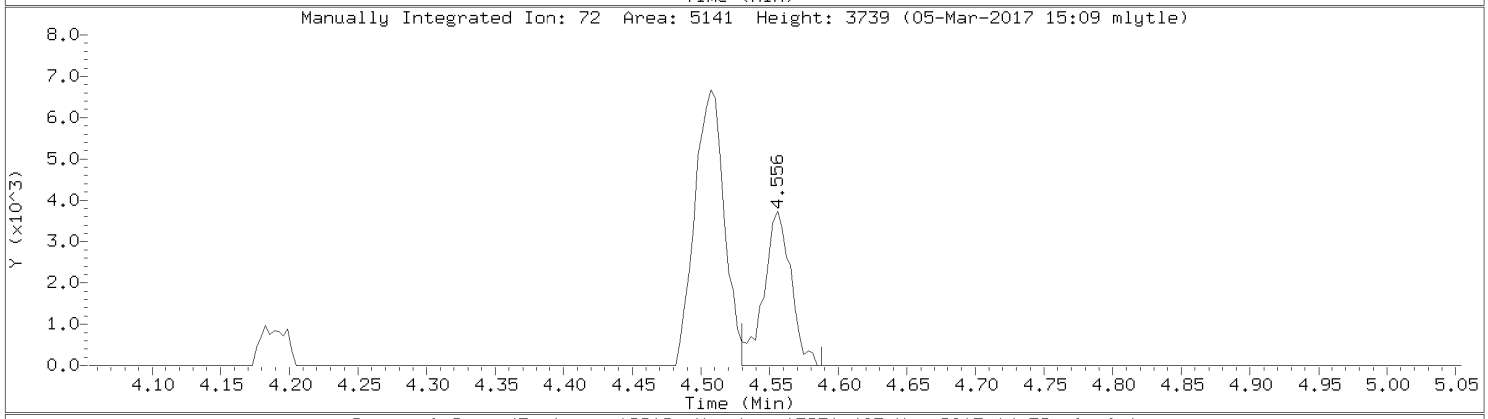


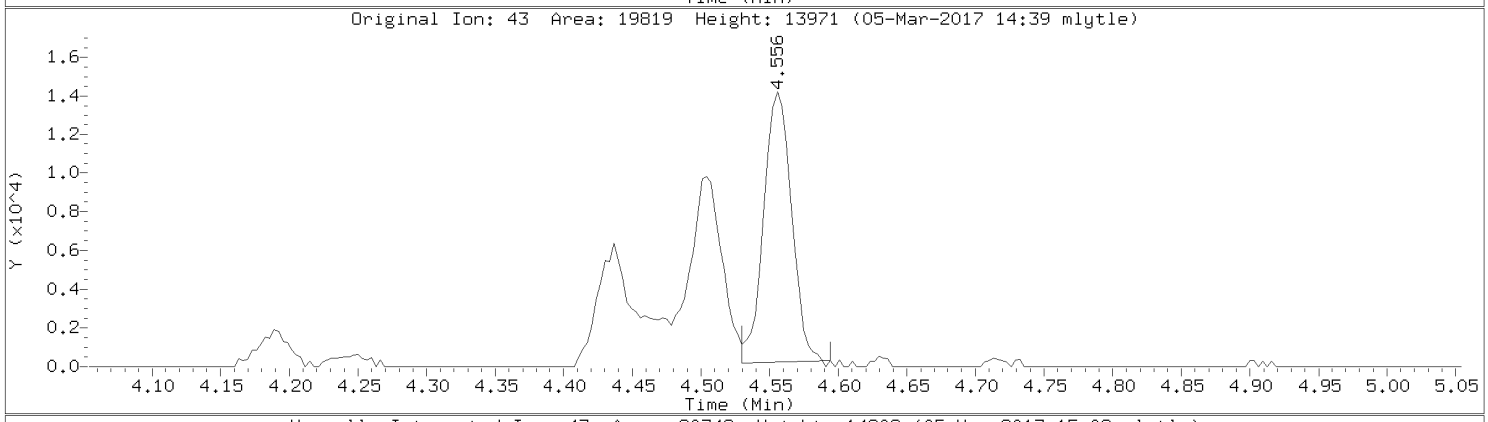


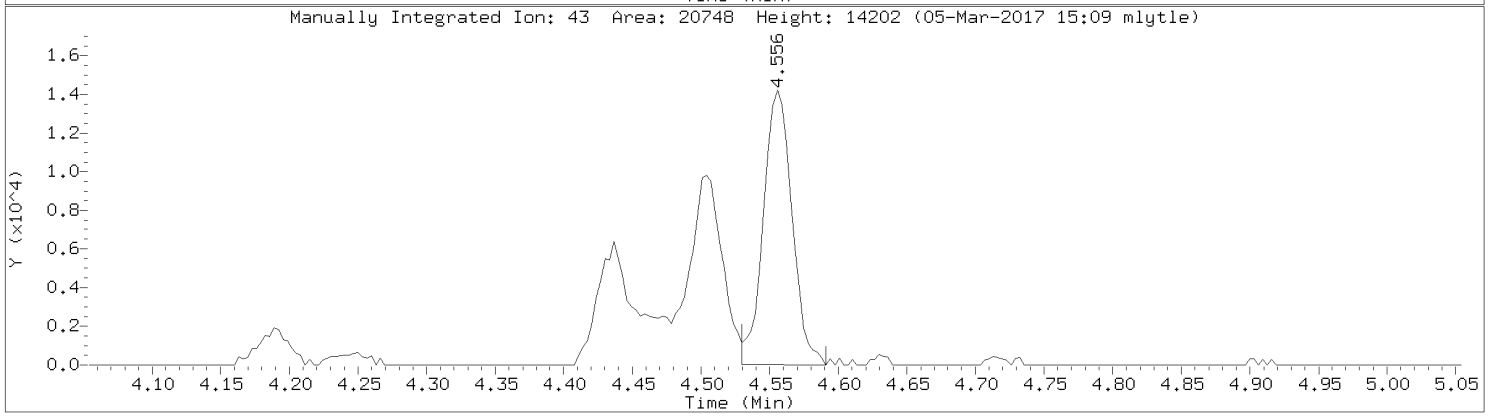
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06320.D
Injection Date: 04-MAR-2017 16:28
Instrument: 10airB.i
Lab Sample ID: 10379929013

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



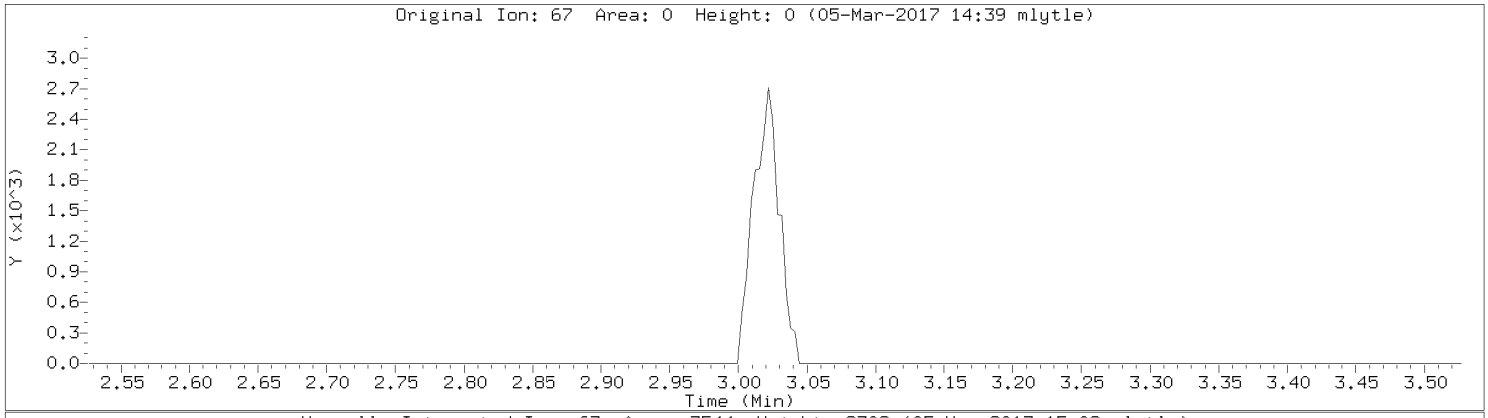


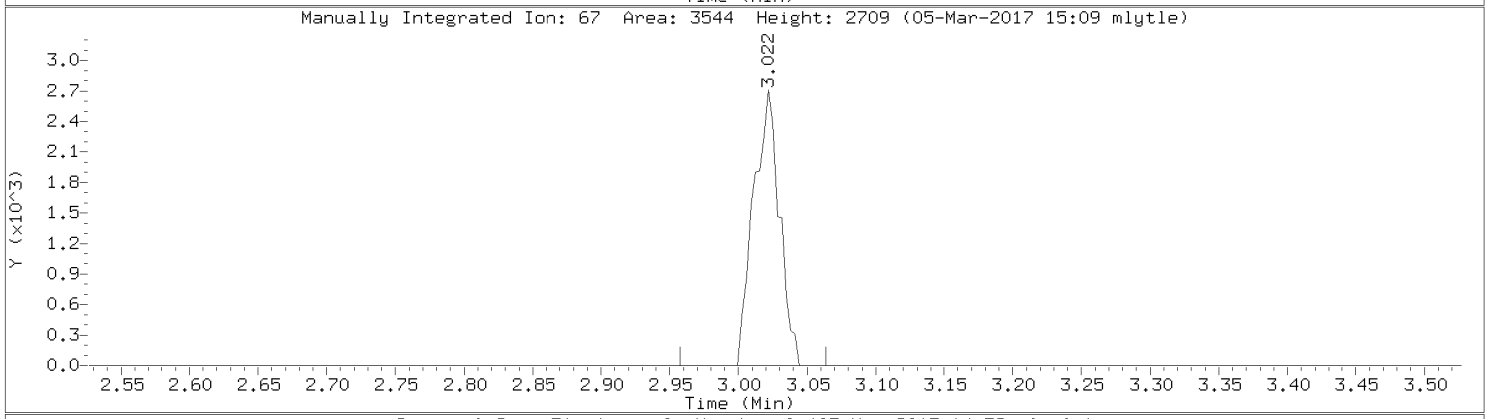


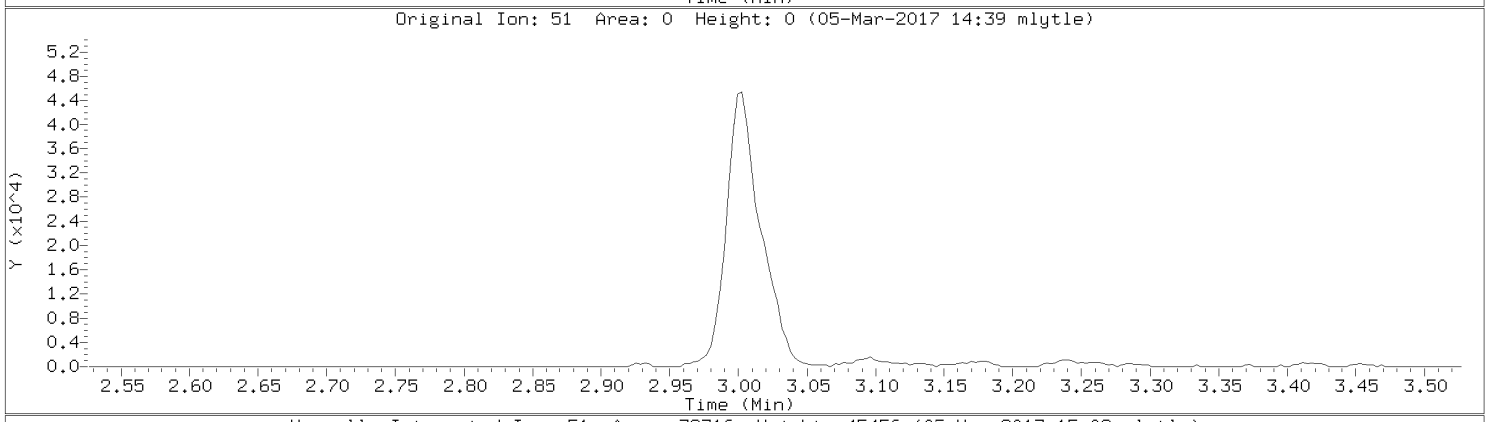


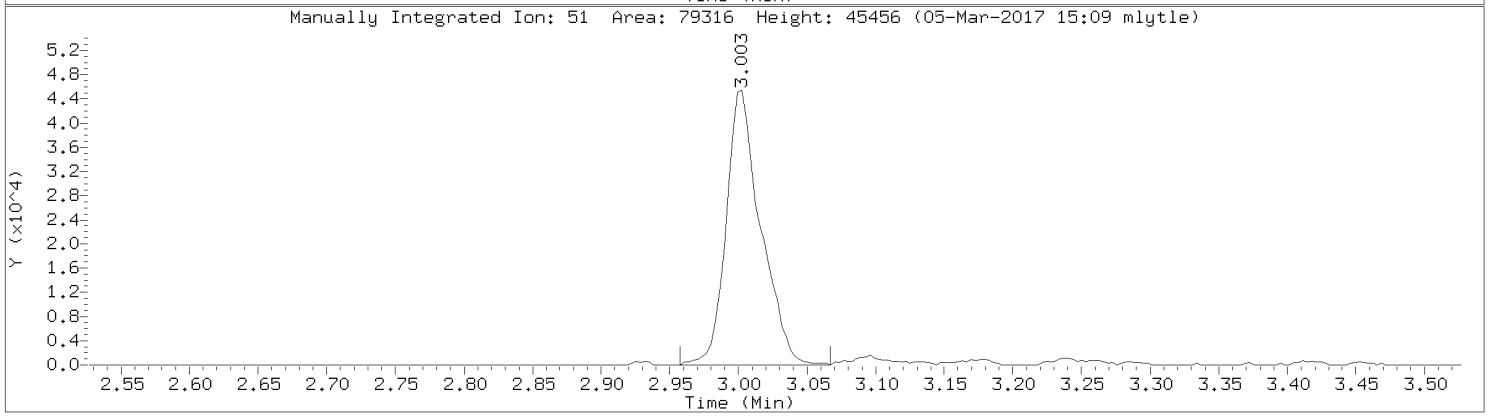
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06320.D
Injection Date: 04-MAR-2017 16:28
Instrument: 10airB.i
Lab Sample ID: 10379929013

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

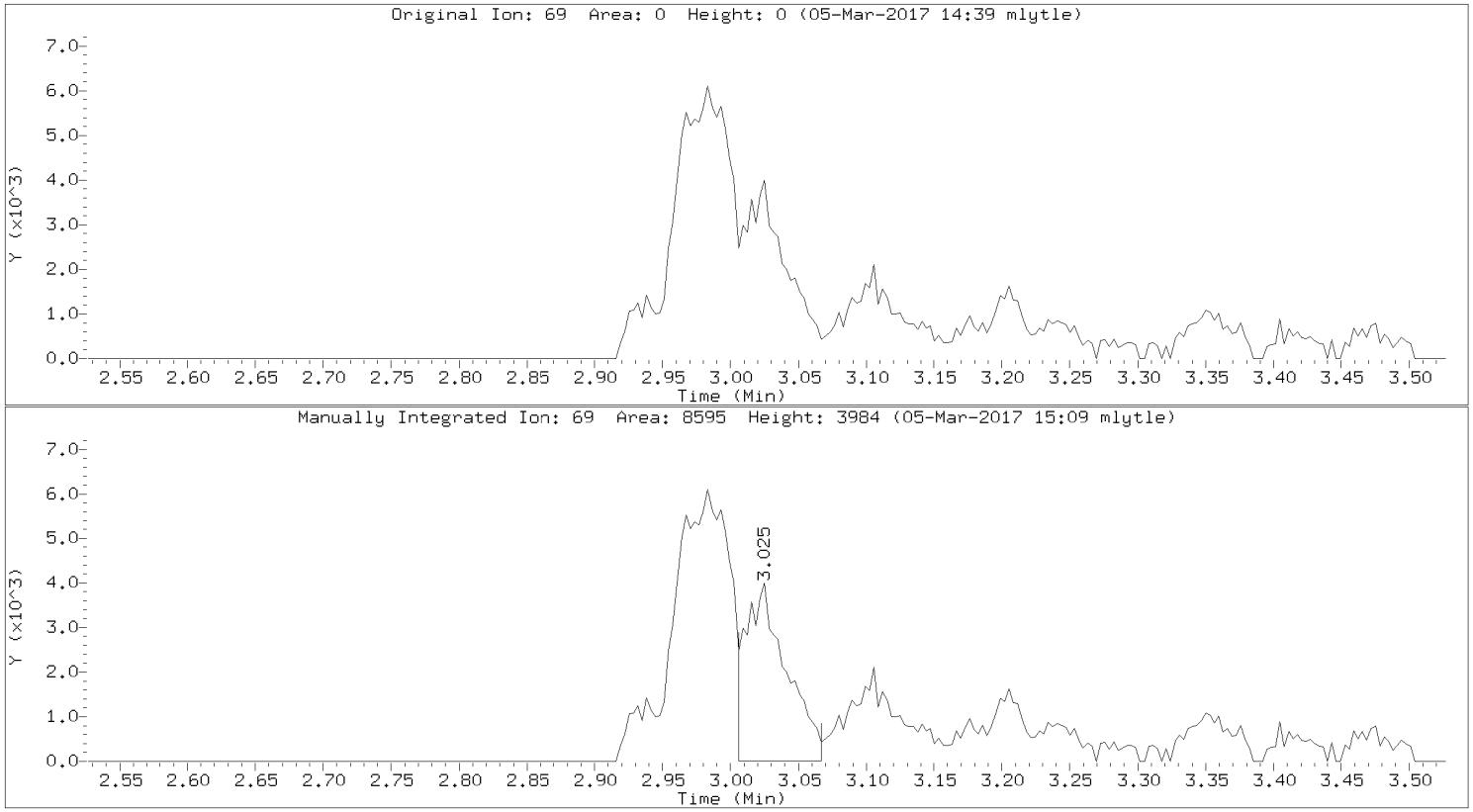








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06320.D
Injection Date: 04-MAR-2017 16:28
Instrument: 10airB.i
Lab Sample ID: 10379929013



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8_20_20170221 **Lab ID: 10379929013** Collected: 02/21/17 13:35 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**2.7J**	ug/m3	5.5	0.53	2.21		03/04/17 16:28	67-63-0	
Styrene	**<0.43**	ug/m3	1.9	0.43	2.21		03/04/17 16:28	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.73**	ug/m3	1.5	0.73	2.21		03/04/17 16:28	79-34-5	
Tetrachloroethene	**2.3**	ug/m3	1.5	0.61	2.21		03/04/17 16:28	127-18-4	
Toluene	**1.3J**	ug/m3	1.7	0.34	2.21		03/04/17 16:28	108-88-3	
1,2,4-Trichlorobenzene	**<2.0**	ug/m3	8.3	2.0	2.21		03/04/17 16:28	120-82-1	
1,1,1-Trichloroethane	**<0.55**	ug/m3	2.5	0.55	2.21		03/04/17 16:28	71-55-6	
1,1,2-Trichloroethane	**<0.54**	ug/m3	1.2	0.54	2.21		03/04/17 16:28	79-00-5	
Trichloroethene	**18.3**	ug/m3	1.2	0.61	2.21		03/04/17 16:28	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.5	0.29	2.21		03/04/17 16:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.67**	ug/m3	3.5	0.67	2.21		03/04/17 16:28	76-13-1	
1,2,4-Trimethylbenzene	**<0.28**	ug/m3	2.2	0.28	2.21		03/04/17 16:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.40**	ug/m3	2.2	0.40	2.21		03/04/17 16:28	108-67-8	
Vinyl chloride	**<0.43**	ug/m3	0.57	0.43	2.21		03/04/17 16:28	75-01-4	
m&p-Xylene	**<1.7**	ug/m3	3.9	1.7	2.21		03/04/17 16:28	179601-23-1	
o-Xylene	**<0.78**	ug/m3	1.9	0.78	2.21		03/04/17 16:28	95-47-6	

Sample: VP-8D_53.5_20170221 **Lab ID: 10379929014** Collected: 02/21/17 13:10 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**217**	ug/m3	5.9	2.0	2.45		03/04/17 17:34	67-64-1	
Allyl chloride	**<0.56**	ug/m3	3.9	0.56	2.45		03/04/17 17:34	107-05-1	
Benzene	**2.1**	ug/m3	0.80	0.30	2.45		03/04/17 17:34	71-43-2	
Bromodichloromethane	**<0.48**	ug/m3	3.3	0.48	2.45		03/04/17 17:34	75-27-4	
Bromoform	**<2.2**	ug/m3	5.1	2.2	2.45		03/04/17 17:34	75-25-2	
Bromomethane	**<0.76**	ug/m3	1.9	0.76	2.45		03/04/17 17:34	74-83-9	
1,3-Butadiene	**<0.43**	ug/m3	1.1	0.43	2.45		03/04/17 17:34	106-99-0	
2-Butanone (MEK)	**<0.56**	ug/m3	7.4	0.56	2.45		03/04/17 17:34	78-93-3	
Carbon disulfide	**<0.25**	ug/m3	1.5	0.25	2.45		03/04/17 17:34	75-15-0	
Carbon tetrachloride	**1.4J**	ug/m3	1.6	0.47	2.45		03/04/17 17:34	56-23-5	
Chlorobenzene	**<0.33**	ug/m3	2.3	0.33	2.45		03/04/17 17:34	108-90-7	
Chlorodifluoromethane	**142**	ug/m3	1.8	0.68	2.45		03/04/17 17:34	75-45-6	
Chloroethane	**<0.48**	ug/m3	1.3	0.48	2.45		03/04/17 17:34	75-00-3	
Chloroform	**49.1**	ug/m3	1.2	0.47	2.45		03/04/17 17:34	67-66-3	
Chloromethane	**1.8**	ug/m3	1.0	0.26	2.45		03/04/17 17:34	74-87-3	
Chloropentafluoroethane	**<7.9**	ug/m3	7.9	7.9	2.45		03/04/17 17:34	76-15-3	
Cyclohexane	**1.8**	ug/m3	1.7	0.77	2.45		03/04/17 17:34	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/m3	12.0	12.0	2.45		03/04/17 17:34	96-12-8	
Dibromochloromethane	**<2.1**	ug/m3	4.2	2.1	2.45		03/04/17 17:34	124-48-1	
1,2-Dibromoethane (EDB)	**<1.9**	ug/m3	3.8	1.9	2.45		03/04/17 17:34	106-93-4	
1,2-Dichlorobenzene	**<1.3**	ug/m3	3.0	1.3	2.45		03/04/17 17:34	95-50-1	
1,3-Dichlorobenzene	**<1.3**	ug/m3	3.0	1.3	2.45		03/04/17 17:34	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_53.5_20170221 **Lab ID: 10379929014** Collected: 02/21/17 13:10 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<1.2**	ug/m3	3.0	1.2	2.45		03/04/17 17:34	106-46-7	
Dichlorodifluoromethane	**4.7**	ug/m3	2.5	1.2	2.45		03/04/17 17:34	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	2.0	0.38	2.45		03/04/17 17:34	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/m3	1.0	0.50	2.45		03/04/17 17:34	107-06-2	
1,1-Dichloroethene	**10.4**	ug/m3	2.0	0.58	2.45		03/04/17 17:34	75-35-4	
cis-1,2-Dichloroethene	**424**	ug/m3	2.0	0.60	2.45		03/04/17 17:34	156-59-2	
cis-1,2-Dichloroethene	**1270J**	ug/m3	1270	386	1569.4 1		03/05/17 23:19	156-59-2	A3
trans-1,2-Dichloroethene	**15.1**	ug/m3	2.0	0.94	2.45		03/04/17 17:34	156-60-5	
1,2-Dichloropropane	**<0.66**	ug/m3	2.3	0.66	2.45		03/04/17 17:34	78-87-5	
cis-1,3-Dichloropropene	**<0.90**	ug/m3	2.3	0.90	2.45		03/04/17 17:34	10061-01-5	
trans-1,3-Dichloropropene	**<0.64**	ug/m3	2.3	0.64	2.45		03/04/17 17:34	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	3.5	0.76	2.45		03/04/17 17:34	76-14-2	
Freon 123	**<7.8**	ug/m3	7.8	7.8	2.45		03/04/17 17:34	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.86**	ug/m3	9.0	0.86	2.45		03/04/17 17:34	123-91-1	
Ethylbenzene	**<1.0**	ug/m3	2.2	1.0	2.45		03/04/17 17:34	100-41-4	
4-Ethyltoluene	**1.6J**	ug/m3	2.4	0.46	2.45		03/04/17 17:34	622-96-8	
Hexachloro-1,3-butadiene	**<1.6**	ug/m3	5.3	1.6	2.45		03/04/17 17:34	87-68-3	
n-Hexane	**248**	ug/m3	1.8	0.87	2.45		03/04/17 17:34	110-54-3	
2-Hexanone	**<1.0**	ug/m3	10.2	1.0	2.45		03/04/17 17:34	591-78-6	
Isopropylbenzene (Cumene)	**<0.34**	ug/m3	6.1	0.34	2.45		03/04/17 17:34	98-82-8	
Methyl acetate	**<3.8**	ug/m3	3.8	3.8	2.45		03/04/17 17:34	79-20-9	
Methylcyclohexane	**<0.59**	ug/m3	2.0	0.59	2.45		03/04/17 17:34	108-87-2	
Methylene Chloride	**1370**	ug/m3	8.6	1.3	2.45		03/04/17 17:34	75-09-2	
Methylene Chloride	**<851**	ug/m3	5540	851	1569.4 1		03/05/17 23:19	75-09-2	A3
4-Methyl-2-pentanone (MIBK)	**<0.53**	ug/m3	10.2	0.53	2.45		03/04/17 17:34	108-10-1	
Methyl-tert-butyl ether	**<0.74**	ug/m3	9.0	0.74	2.45		03/04/17 17:34	1634-04-4	
2-Propanol	**8.2**	ug/m3	6.1	0.59	2.45		03/04/17 17:34	67-63-0	
Styrene	**<0.47**	ug/m3	2.1	0.47	2.45		03/04/17 17:34	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.81**	ug/m3	1.7	0.81	2.45		03/04/17 17:34	79-34-5	
Tetrachloroethene	**646**	ug/m3	1.7	0.68	2.45		03/04/17 17:34	127-18-4	
Tetrachloroethene	**1980J**	ug/m3	2160	436	1569.4 1		03/05/17 23:19	127-18-4	A3
Toluene	**9.2**	ug/m3	1.9	0.38	2.45		03/04/17 17:34	108-88-3	
1,2,4-Trichlorobenzene	**<2.2**	ug/m3	9.2	2.2	2.45		03/04/17 17:34	120-82-1	
1,1,1-Trichloroethane	**<0.61**	ug/m3	2.7	0.61	2.45		03/04/17 17:34	71-55-6	
1,1,2-Trichloroethane	**11.7**	ug/m3	1.3	0.60	2.45		03/04/17 17:34	79-00-5	
Trichloroethene	**6230**	ug/m3	1.3	0.68	2.45		03/04/17 17:34	79-01-6	
Trichloroethene	**78900**	ug/m3	863	433	1569.4 1		03/05/17 23:19	79-01-6	A3
Trichlorofluoromethane	**19.0**	ug/m3	2.8	0.32	2.45		03/04/17 17:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	**308**	ug/m3	3.9	0.74	2.45		03/04/17 17:34	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	2.4	0.31	2.45		03/04/17 17:34	95-63-6	
1,3,5-Trimethylbenzene	**<0.45**	ug/m3	2.4	0.45	2.45		03/04/17 17:34	108-67-8	
Vinyl chloride	**0.57J**	ug/m3	0.64	0.48	2.45		03/04/17 17:34	75-01-4	
m&p-Xylene	**3.6J**	ug/m3	4.3	1.9	2.45		03/04/17 17:34	179601-23-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06435.D
Report Date: 06-Mar-2017 14:16

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06435.D
Lab Smp Id: 10379929014
Inj Date : 05-MAR-2017 23:19
Operator : CH1 Inst ID: 10air7.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 35
Dil Factor: 1569.41000
Integrator: HP RTE Compound Sublist: btex+chlor.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1569.410	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
	8 Vinyl chloride	62	Compound Not Detected.						
	11 Chloroethane	64	Compound Not Detected.						
	18 Acetone	43	Compound Not Detected.						(D)
	20 1,1-Dichloroethene	61	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.513	3.520	(0.782)	201658	12.3555	12.4	
	34 n-Hexane	57	Compound Not Detected.						(D)
	36 cis-1,2-Dichloroethene	96	3.706	3.719	(0.825)	2973	0.20028	314(Q)	
	39 Chloroform	83	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.494	4.504	(1.000)	597970	10.0000		
	51 Trichloroethene	130	4.828	4.835	(1.074)	259671	9.20395	14400	
$	59 Toluene-d8 (S)	98	5.828	5.835	(1.297)	492597	9.81342	9.81	
	60 Toluene	91	Compound Not Detected.						(D)
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.677	6.683	(0.914)	6857	0.18292	287	

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06435.D
Report Date: 06-Mar-2017 14:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
*	67 Chlorobenzene - d5	117	7.304	7.310	(1.000)	378077	10.0000		
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	79 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	82 1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
$	85 1,4-dichlorobenzene-d4 (S)	150	10.481	10.487	(1.435)	145308	9.39357	9.39	
	94 Naphthalene	128	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06435.D
Report Date: 06-Mar-2017 14:16

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06435.D
Lab Smp Id: 10379929014
Analysis Type: VOA
Quant Type: ISTD
Operator: CH1
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info: 27836

Calibration Date: 05-MAR-2017
Calibration Time: 10:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

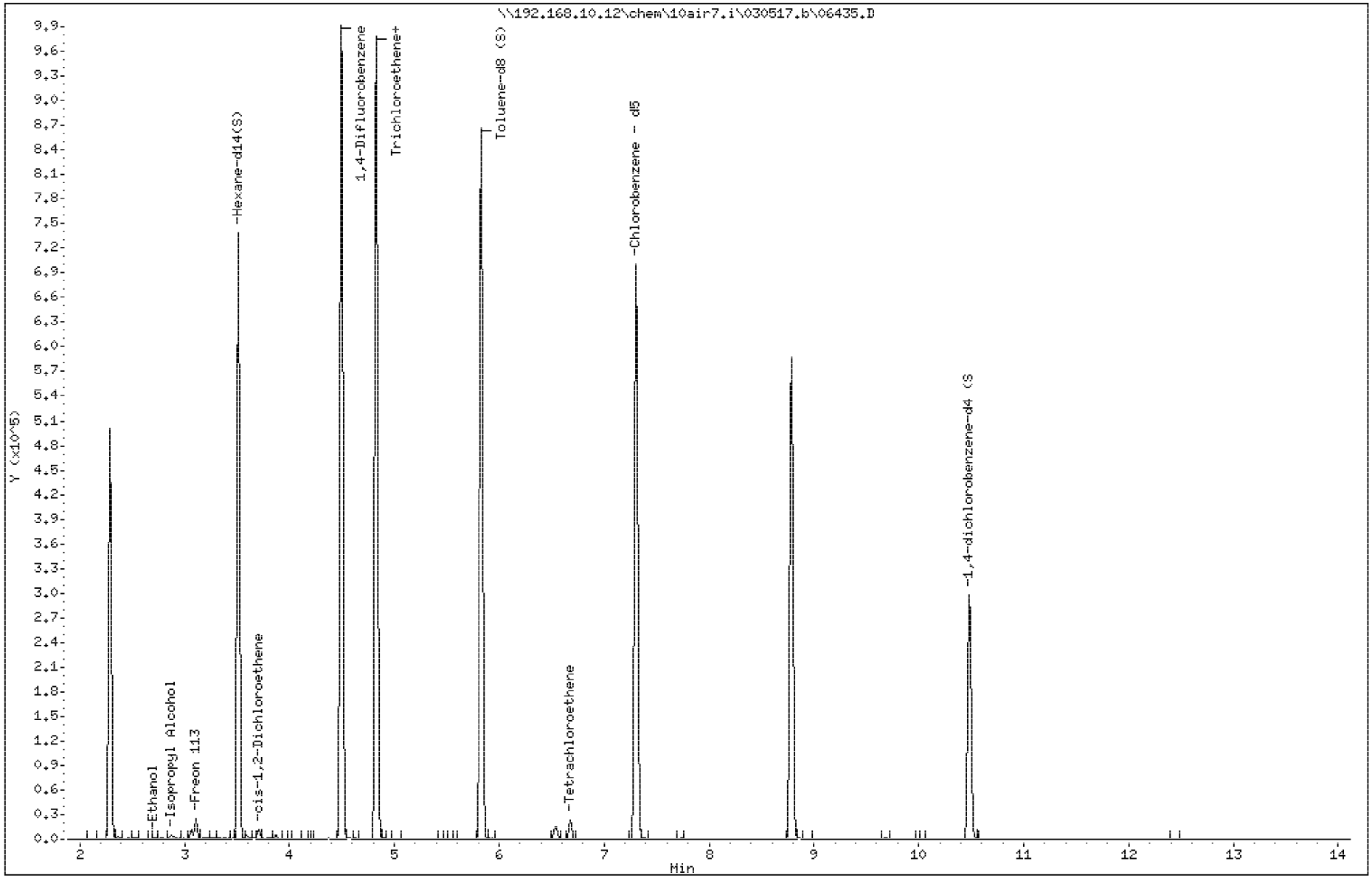
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	597970	-28.47
67 Chlorobenzene - d	539522	323713	755331	378077	-29.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.50	4.17	4.83	4.49	-0.21
67 Chlorobenzene - d	7.31	6.98	7.64	7.30	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06435.D
Date : 05-MAR-2017 23:19
Client ID:
Sample Info:

Instrument: 10air7.i
Operator: CH1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06435.D

Date : 05-MAR-2017 23:19

Client ID:

Instrument: 10air7.i

Sample Info:

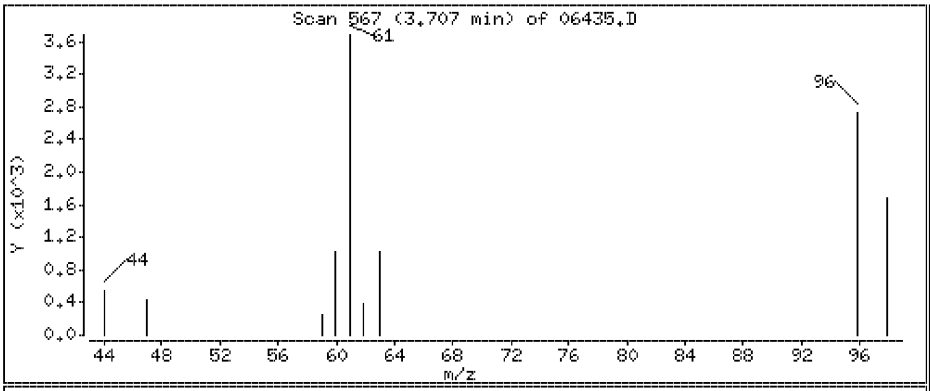
Operator: CH1

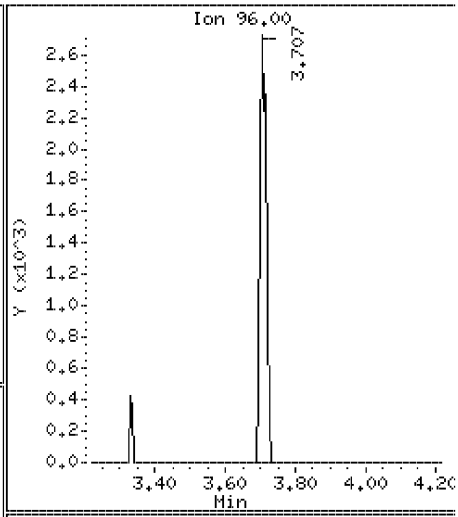
Column phase: J&W DB-5

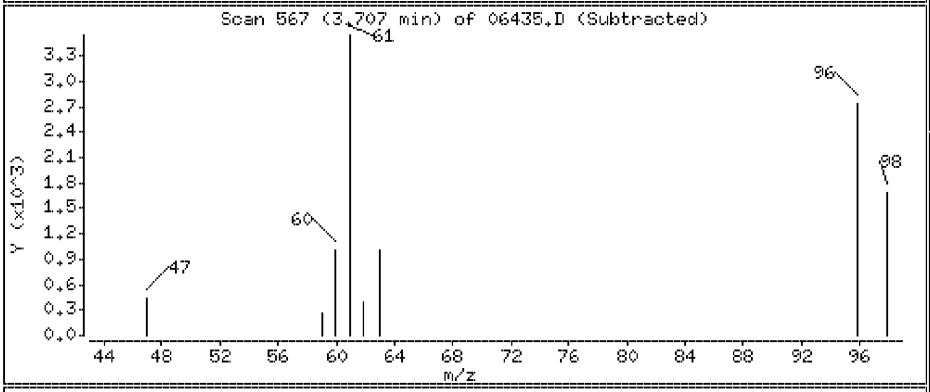
Column diameter: 0.32

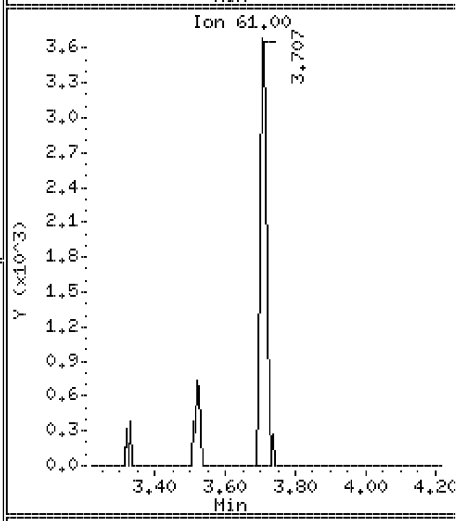
36 cis-1,2-Dichloroethene

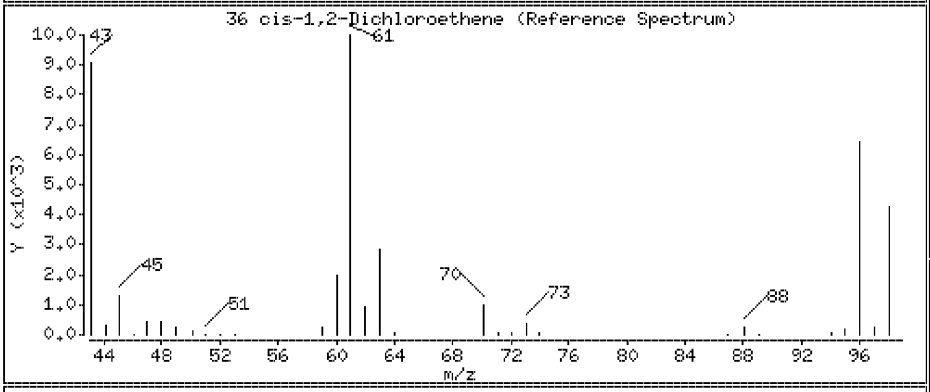
Concentration: 314 ppbv

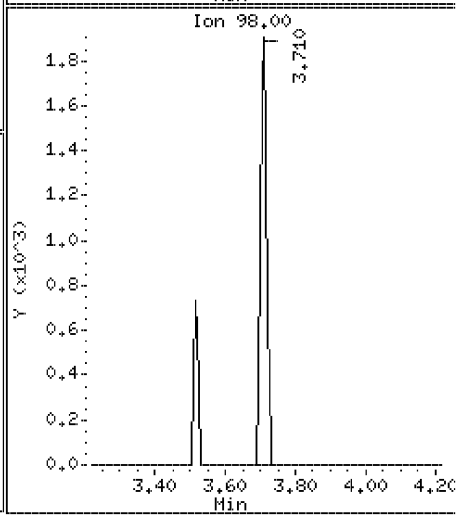


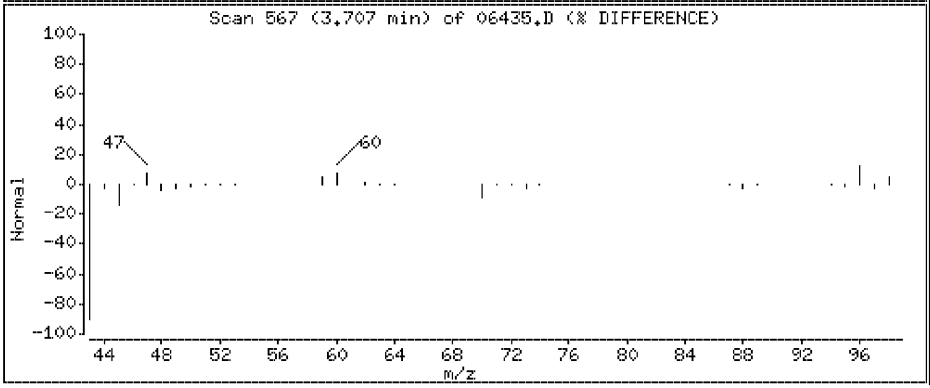












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06435.D

Date : 05-MAR-2017 23:19

Client ID:

Instrument: 10air7.i

Sample Info:

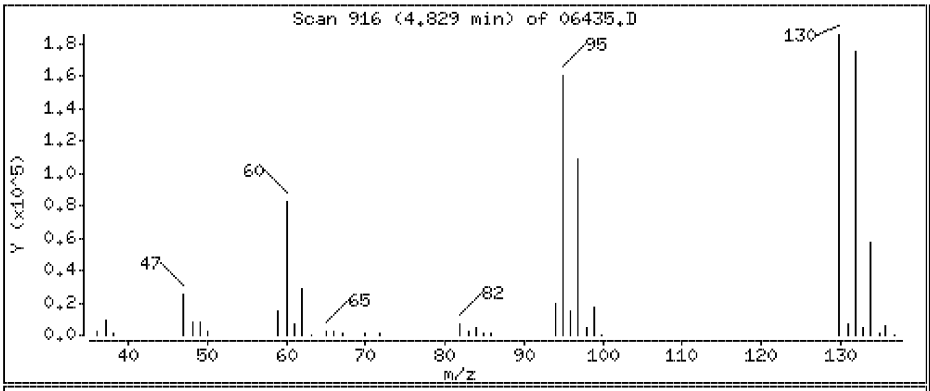
Operator: CH1

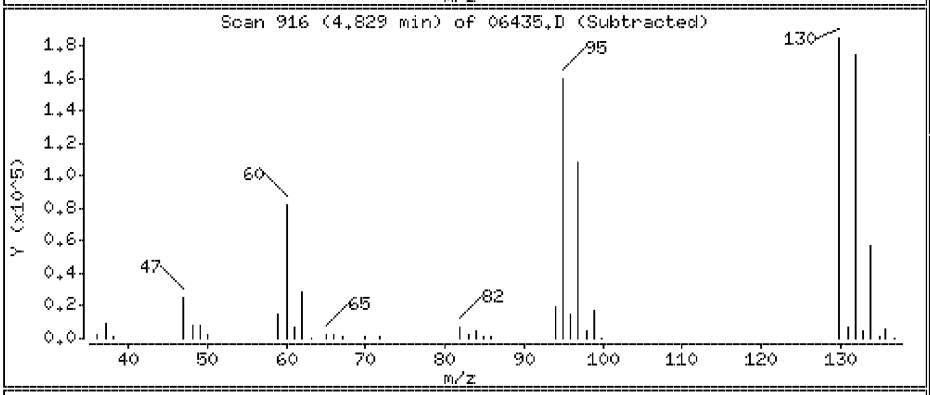
Column phase: J&W DB-5

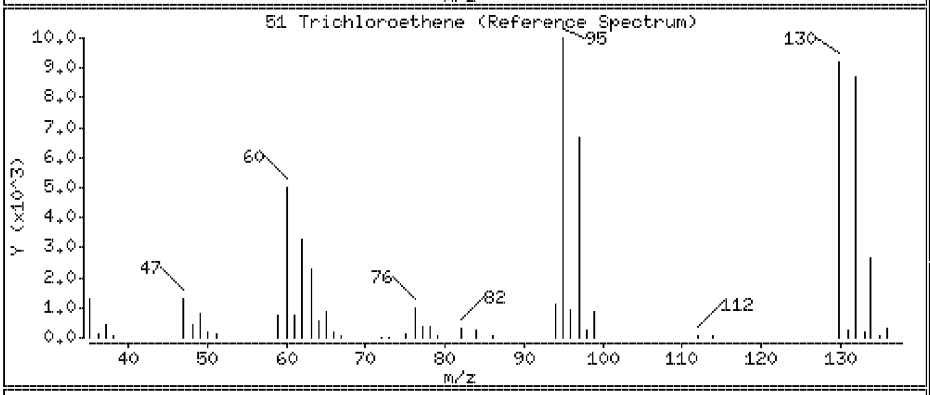
Column diameter: 0.32

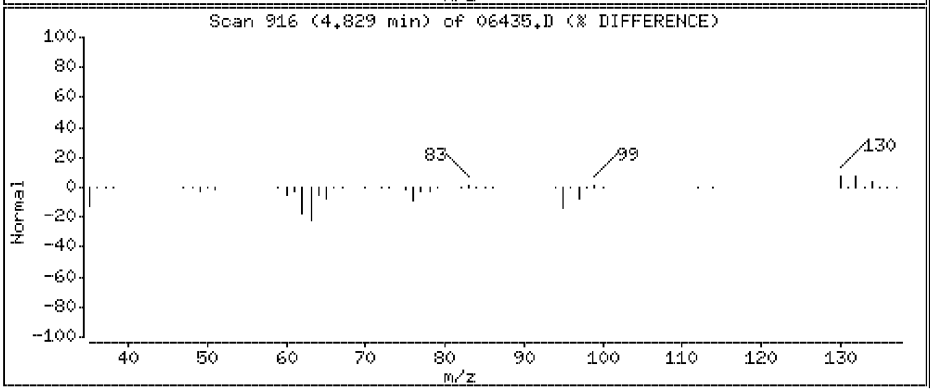
51 Trichloroethene

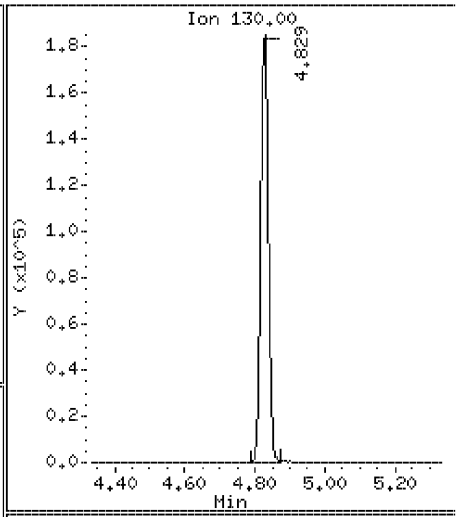
Concentration: 14400 ppbv

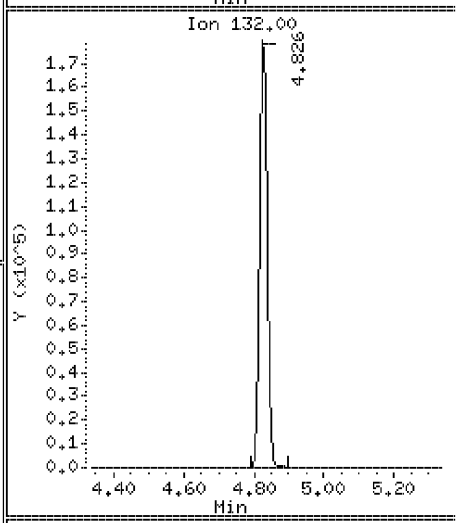


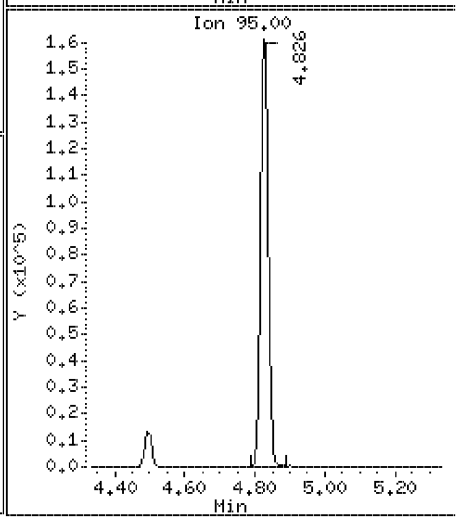












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06435.D

Date : 05-MAR-2017 23:19

Client ID:

Instrument: 10air7.i

Sample Info:

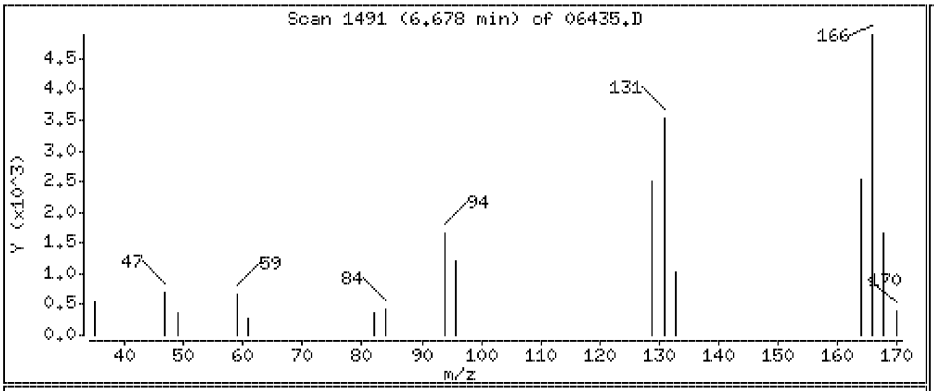
Operator: CH1

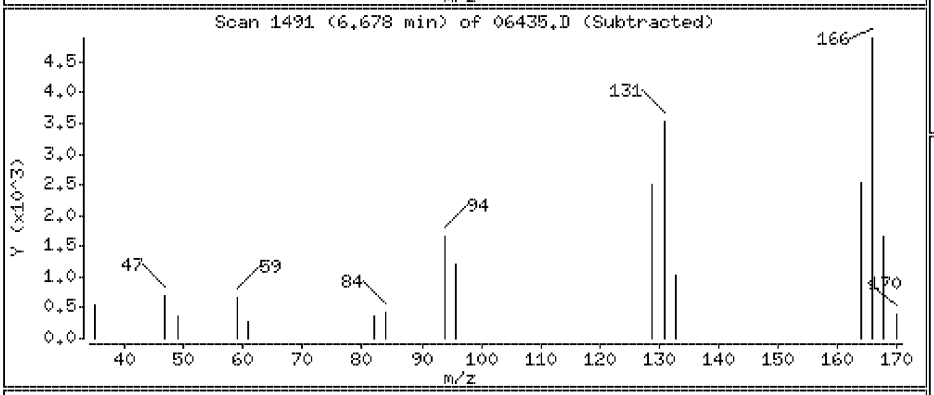
Column phase: J&W DB-5

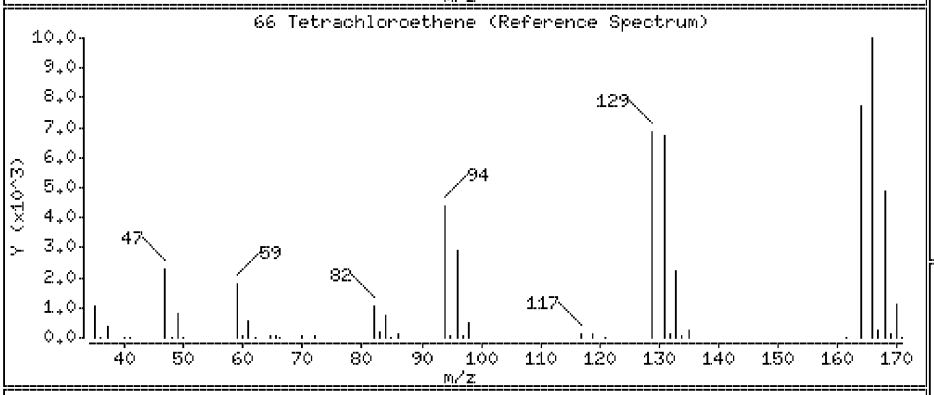
Column diameter: 0.32

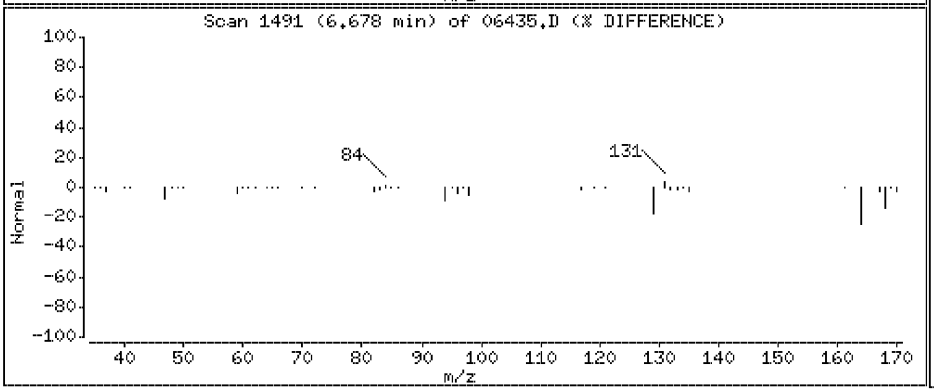
66 Tetrachloroethene

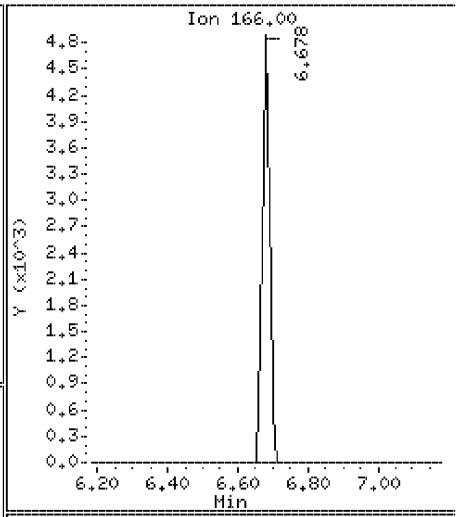
Concentration: 287 ppbv

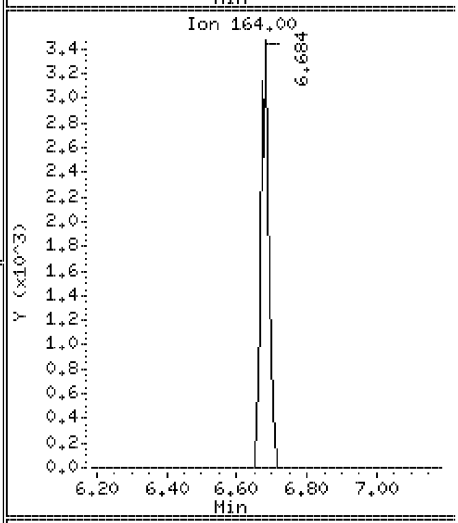


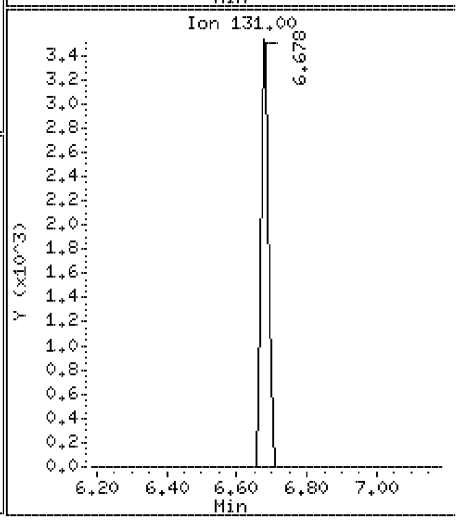












Data File: \\192.168.10.12\chem\10air7.i\030517.b/06435.D
Injection Date: 05-MAR-2017 23:19
Instrument: 10air7.i
Lab Sample ID: 10379929014
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D
Report Date: 05-Mar-2017 15:15

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06322.D
Lab Smp Id: 10379929014
Inj Date : 04-MAR-2017 17:34
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 22
Dil Factor: 2.45000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.450	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.025	3.028	(0.537)	53704	16.0798	39.4(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.060	(0.544)	15551	0.38413	0.941	
6	Chloromethane	50	3.153	3.156	(0.560)	4848	0.35445	0.868	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	3.234	3.234	(0.574)	1053	0.08912	0.218(M)	
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.555	3.545	(0.632)	31328	7.16210	17.5	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.587	3.600	(0.637)	18457	1.42289	3.49	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.658	3.674	(0.650)	44416	1.36092	3.33	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.732	3.722	(0.663)	692456	36.6609	89.8	
19	Isopropyl Alcohol	45	3.774	3.767	(0.670)	25868	1.34286	3.29(Q)	
20	1,1-Dichloroethene	61	3.899	3.909	(0.693)	19922	1.04958	2.57	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.951	3.951	(0.702)	397938	16.1464	39.6	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D
Report Date: 05-Mar-2017 15:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	4.012	4.005	(0.713)	2114777	158.632	389(A)	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.279	4.275	(0.760)	16296	1.53016	3.75	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.494	4.491	(0.798)	383486	10.1253	10.1	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.590	4.584	(0.816)	535895	28.2300	69.2(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.722	4.725	(0.839)	510875	42.9346	105(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.835	4.841	(0.859)	99627	4.03964	9.90	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.481	5.468	(0.974)	10220	0.26620	0.652(M)	
	44 Carbon tetrachloride	117	5.481	5.484	(0.974)	2536	0.08746	0.214	
	45 Cyclohexane	56	5.494	5.487	(0.976)	4136	0.21520	0.527(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.629	5.613	(1.000)	1190438	10.0000		
	48 2,2,4-Trimethylpentane	57	5.767	5.770	(1.025)	6020	0.10123	0.248(M)	
	49 Heptane	43	5.925	5.893	(1.053)	2391	0.11146	0.273(M)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.996	5.989	(1.065)	9314992	465.713	1140(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.092	7.076	(1.260)	1006058	9.44234	9.44	
	60 1,1,2-Trichloroethane	97	7.150	7.143	(1.270)	13702	0.85819	2.10	
	61 Toluene	91	7.169	7.153	(1.274)	47382	0.98548	2.41	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.999	7.986	(0.925)	1057266	38.2357	93.7(A)	
*	67 Chlorobenzene - d5	117	8.648	8.645	(1.000)	796314	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.085	9.082	(1.051)	15143	0.32941	0.807	
	71 n-Nonane	43	9.474	9.468	(1.096)	106793	4.50405	11.0	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.584	9.581	(1.108)	5972	0.12769	0.313	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D
Report Date: 05-Mar-2017 15:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)		
78	4-Ethyltoluene	105	10.918	10.912	(1.262)	2151	0.13065	0.320	(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.							(D)
80	n-Decane	57	11.381	11.378	(2.022)	1150	0.27392	0.671		
81	Tert-Butyl Benzene	119	Compound Not Detected.							
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.331)	5960	0.12599	0.309		
83	1,3-Dichlorobenzene	146	Compound Not Detected.							
84	Sec- Butylbenzene	105	Compound Not Detected.							
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	465414	10.6098	10.6		
86	Benzyl Chloride	91	Compound Not Detected.							
87	1,4-Dichlorobenzene	146	Compound Not Detected.							
88	p-Isopropyltoluene	119	Compound Not Detected.							
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.							(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.							
91	N-Butylbenzene	91	Compound Not Detected.							
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.							
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.							
94	Naphthalene	128	14.169	14.156	(1.638)	2188	0.40643	0.996	(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.							

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D
Report Date: 05-Mar-2017 15:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06322.D
Lab Smp Id: 10379929014
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

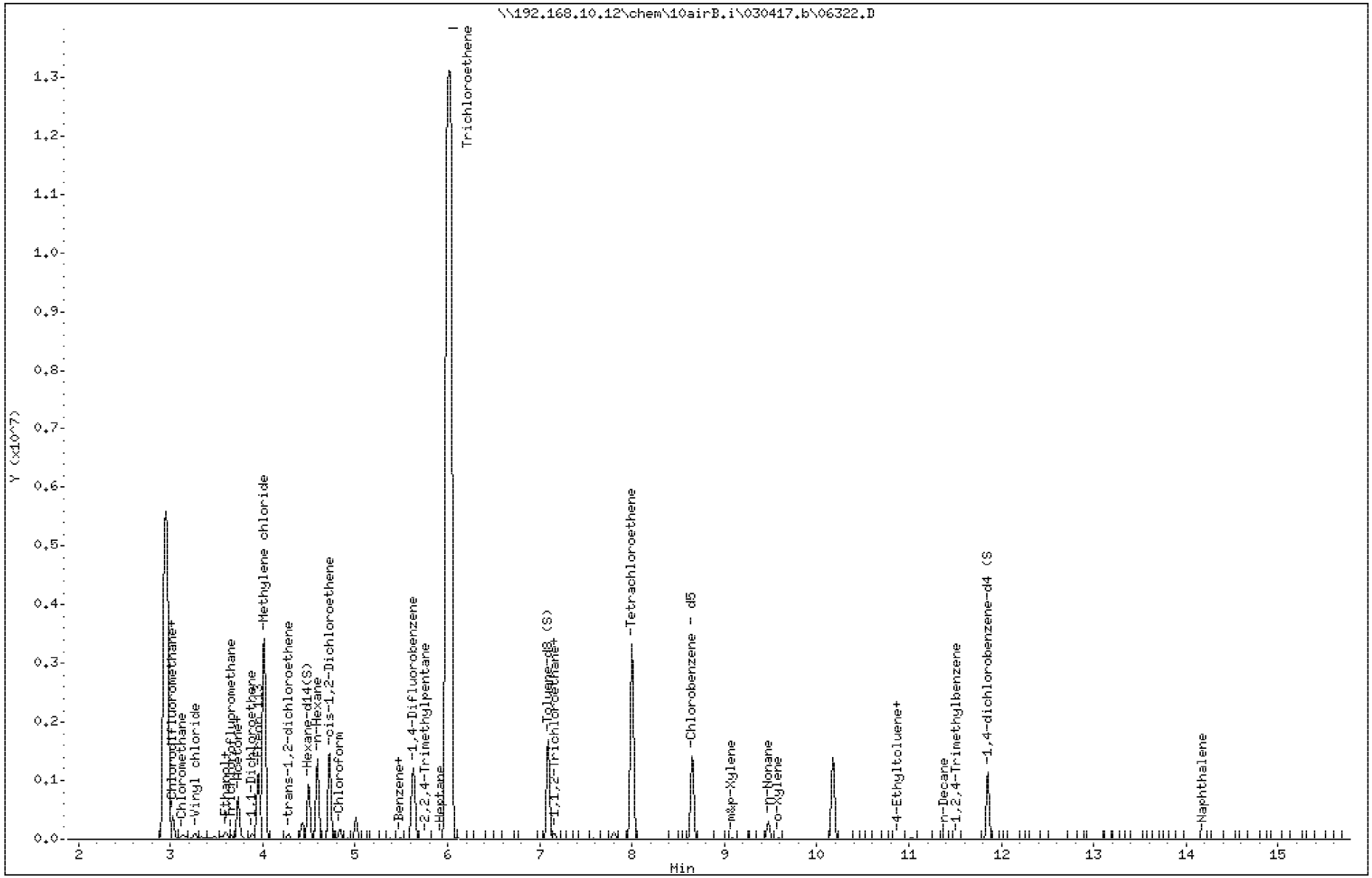
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1190438	-15.82
67 Chlorobenzene - d	951026	570616	1331436	796314	-16.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.63	0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D
Date : 04-MAR-2017 17:34
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

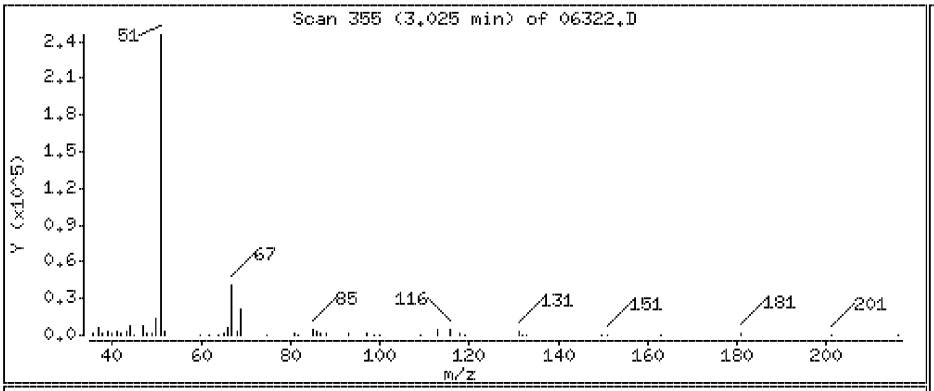
Operator: MJL

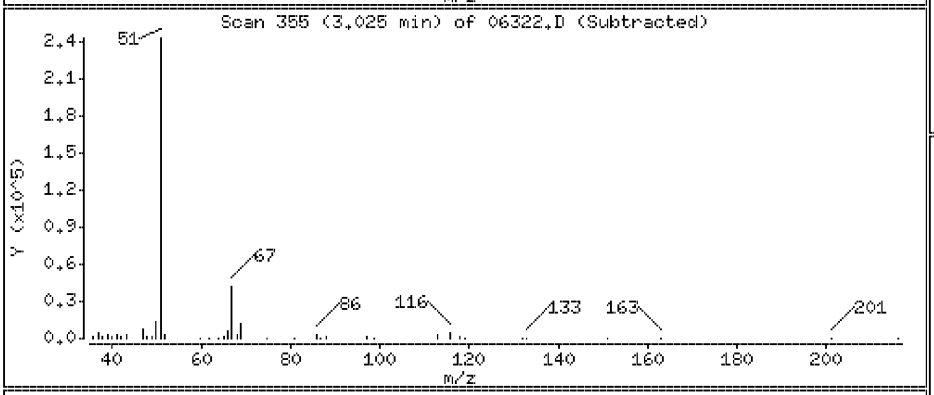
Column phase: J&W DB-5

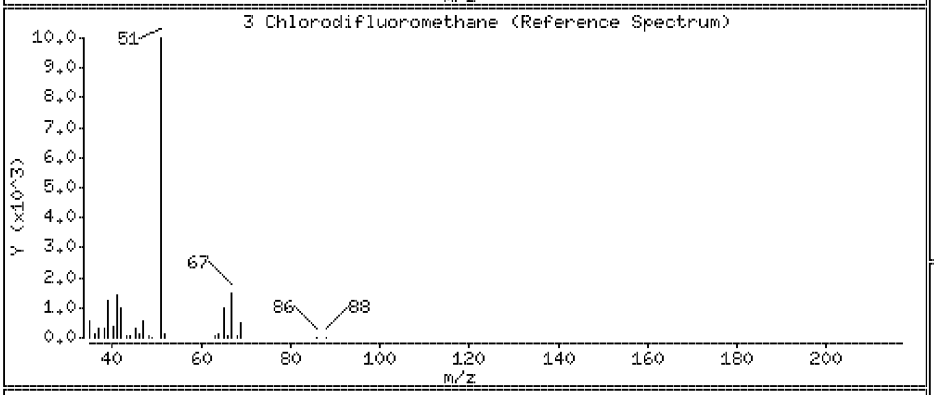
Column diameter: 0.32

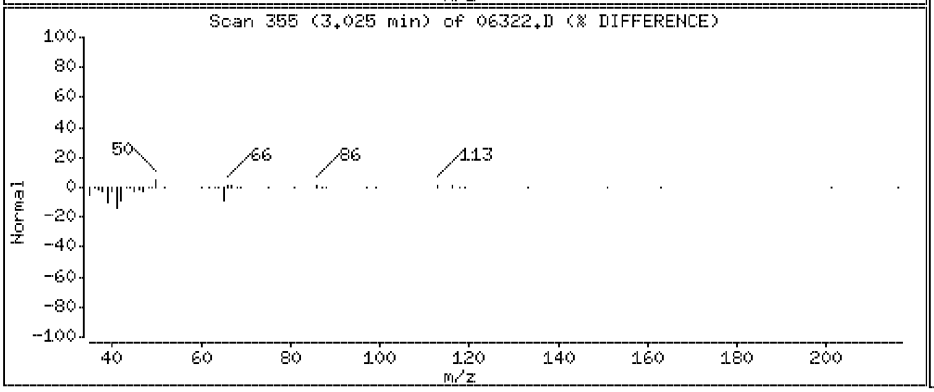
3 Chlorodifluoromethane

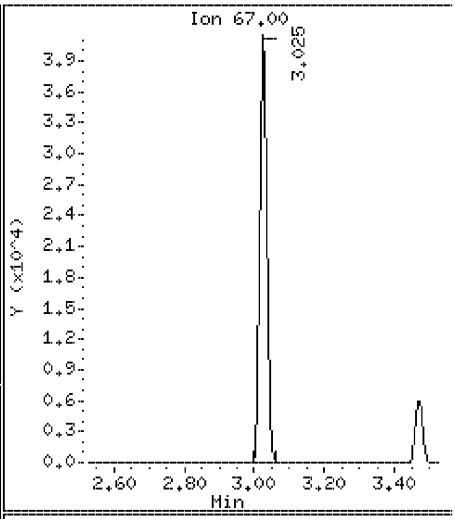
Concentration: 39.4 ppbv

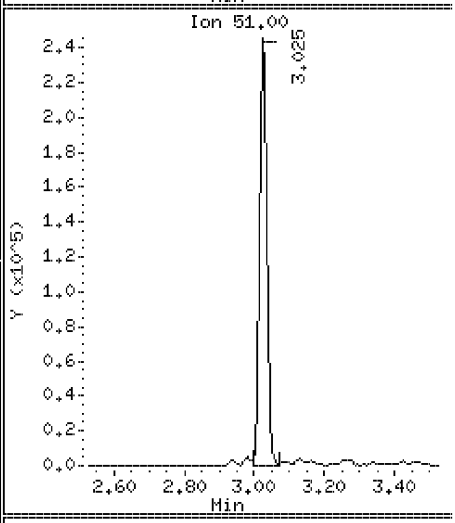


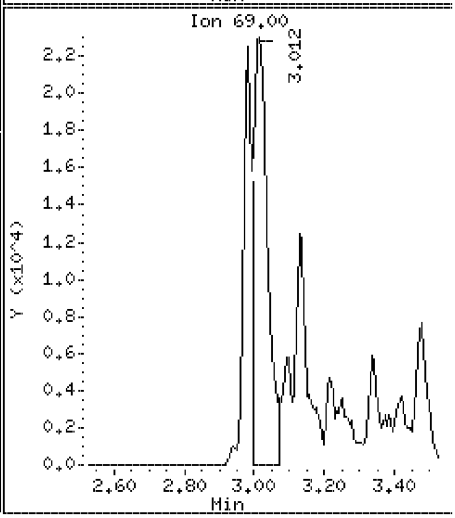












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

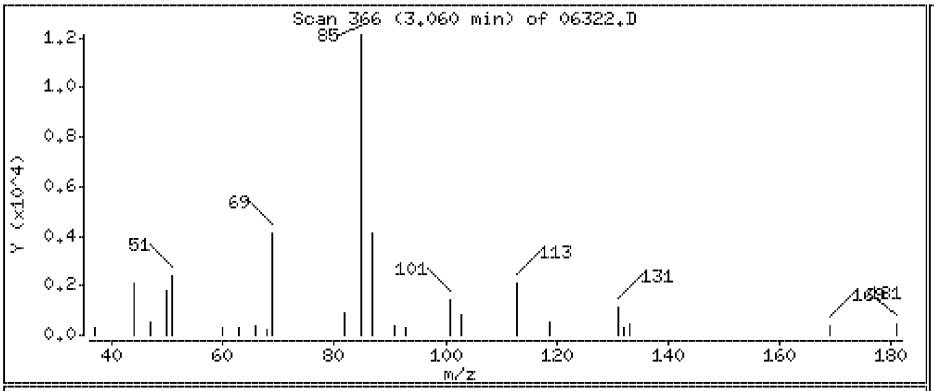
Operator: MJL

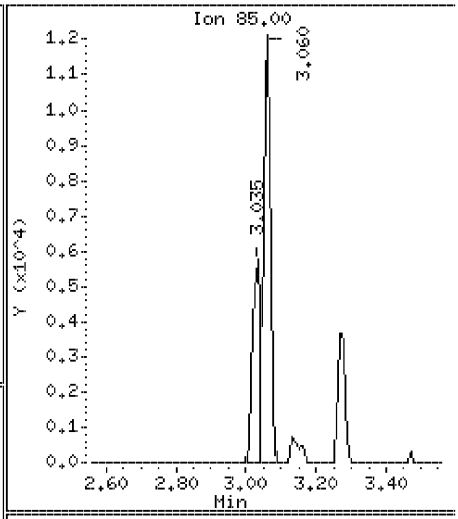
Column phase: J&W DB-5

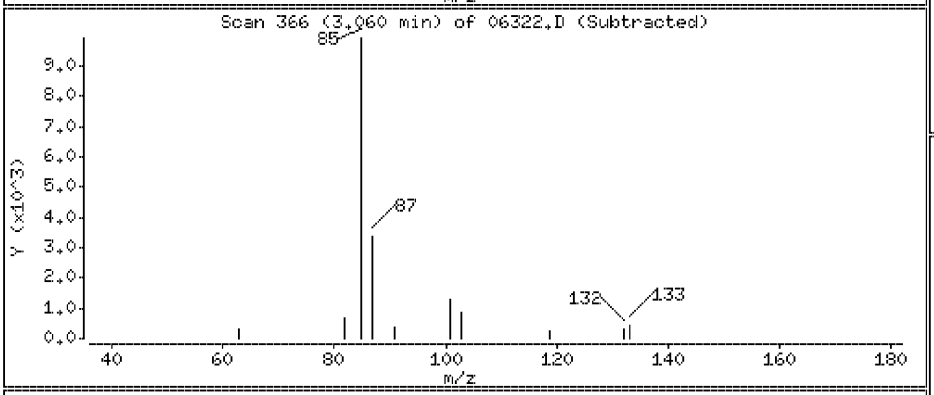
Column diameter: 0.32

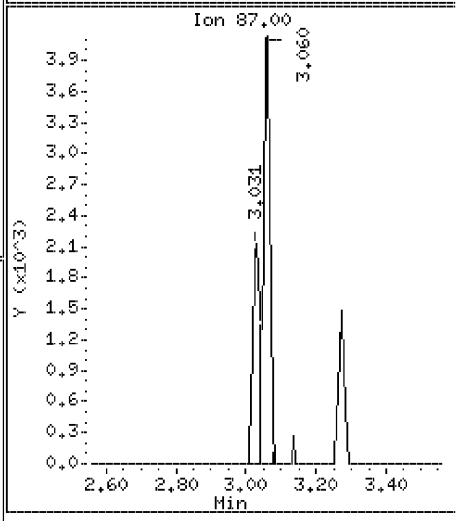
5 Dichlorodifluoromethane

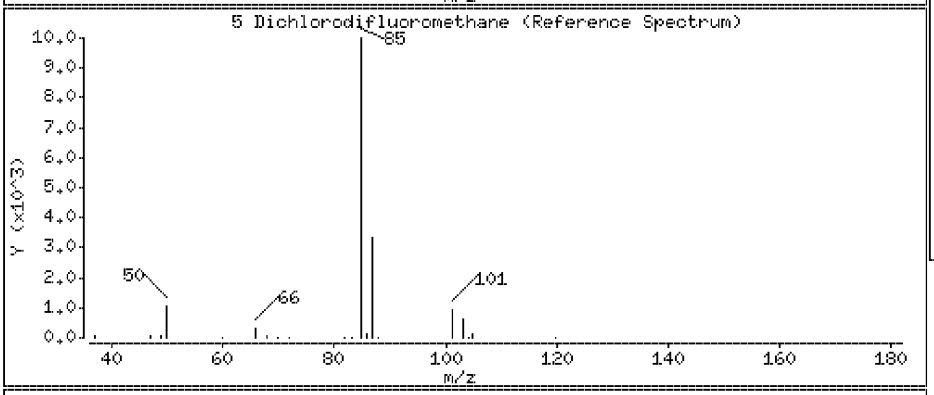
Concentration: 0.941 ppbv

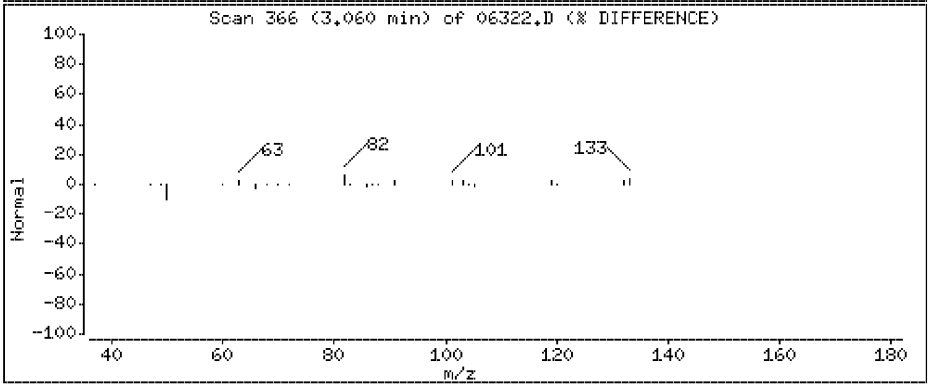












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

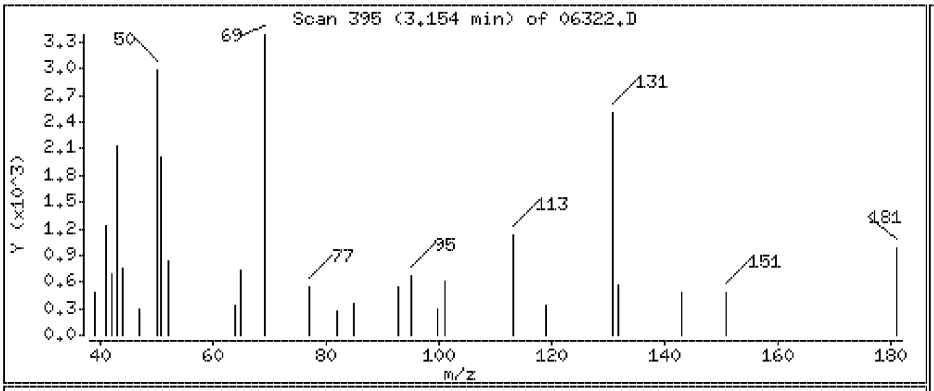
Operator: MJL

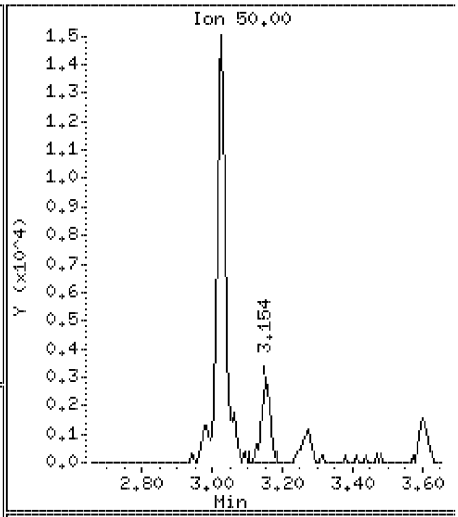
Column phase: J&W DB-5

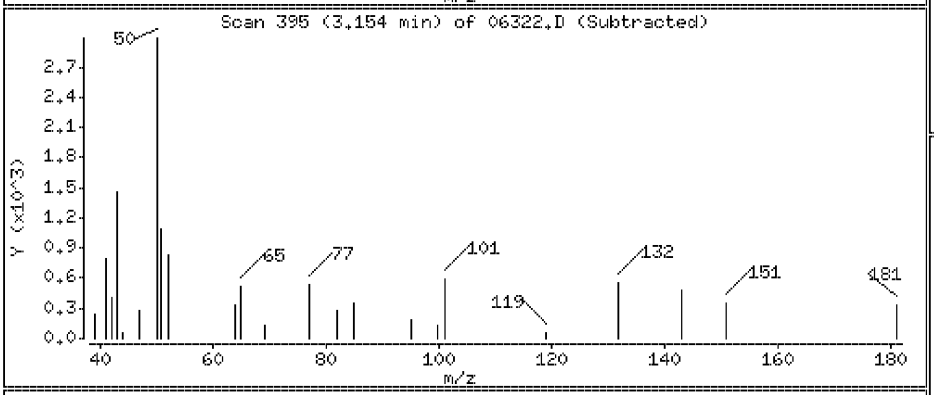
Column diameter: 0.32

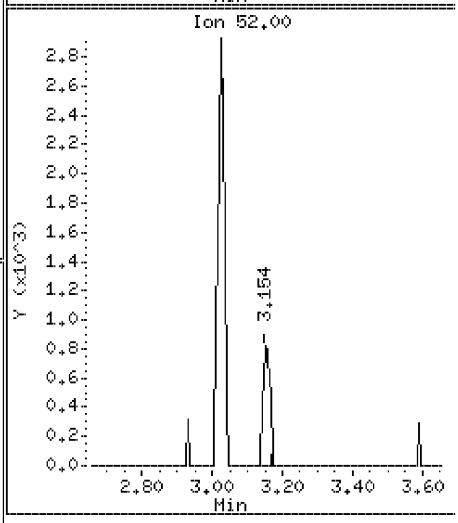
6 Chloromethane

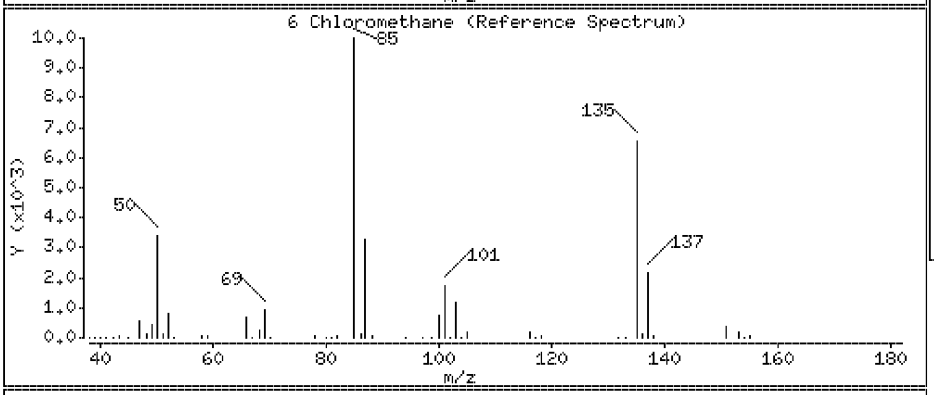
Concentration: 0.868 ppbv

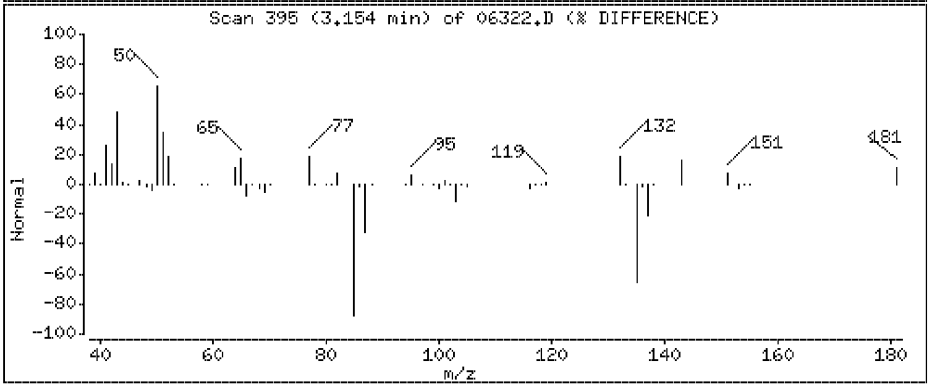












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

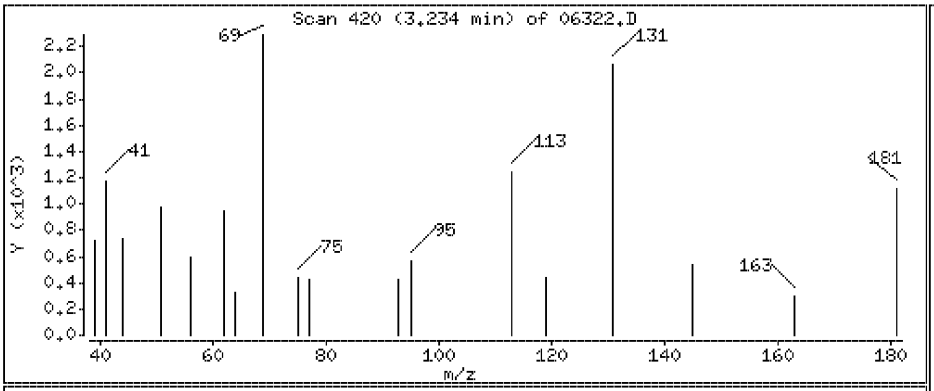
Operator: MJL

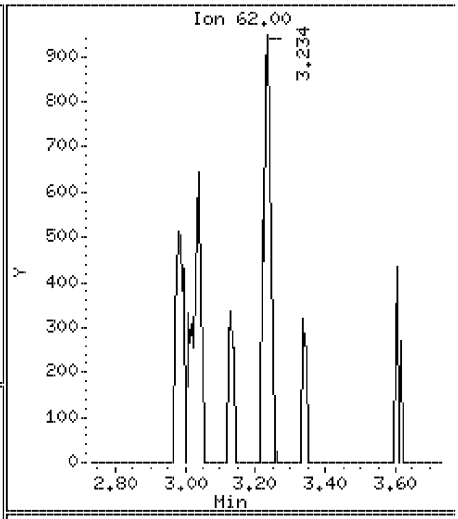
Column phase: J&W DB-5

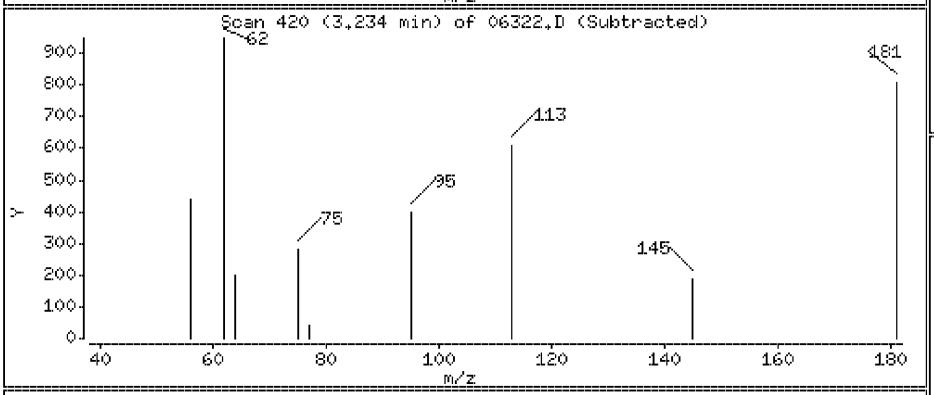
Column diameter: 0.32

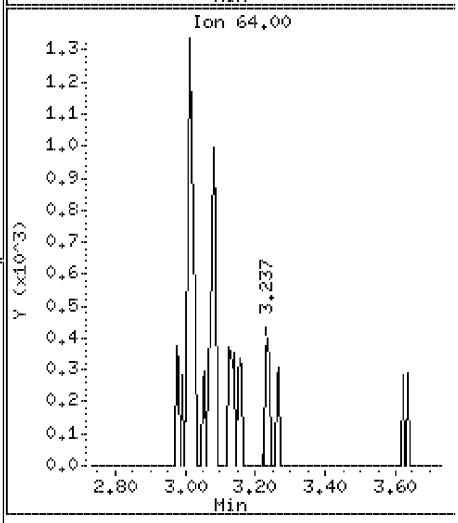
8 Vinyl chloride

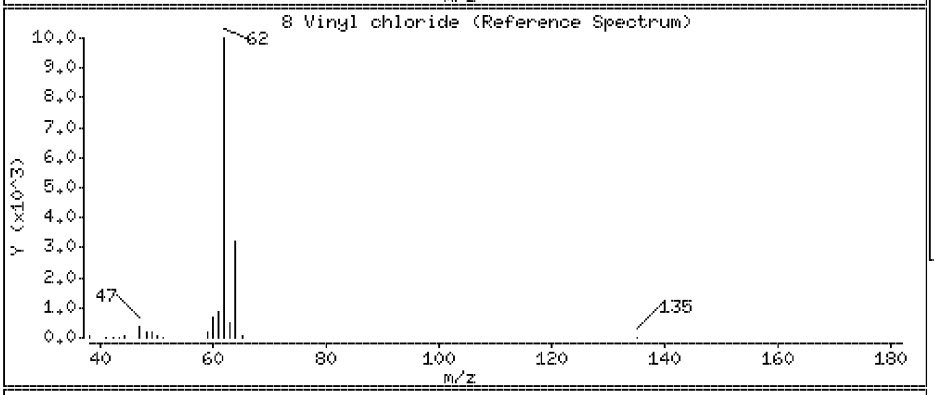
Concentration: 0.218 ppbv

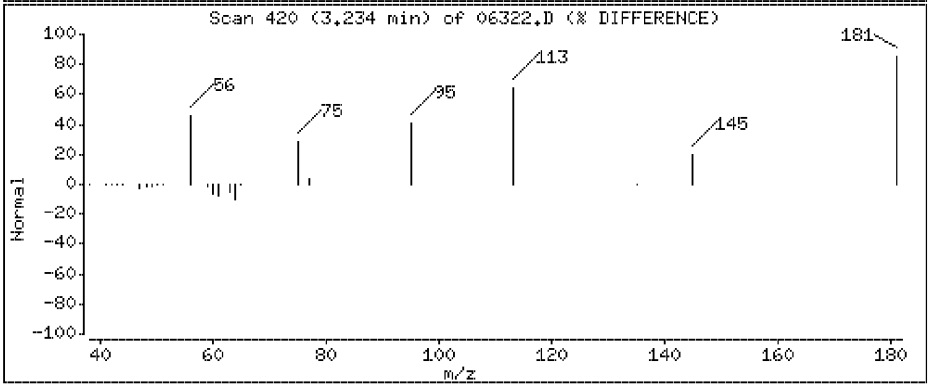












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

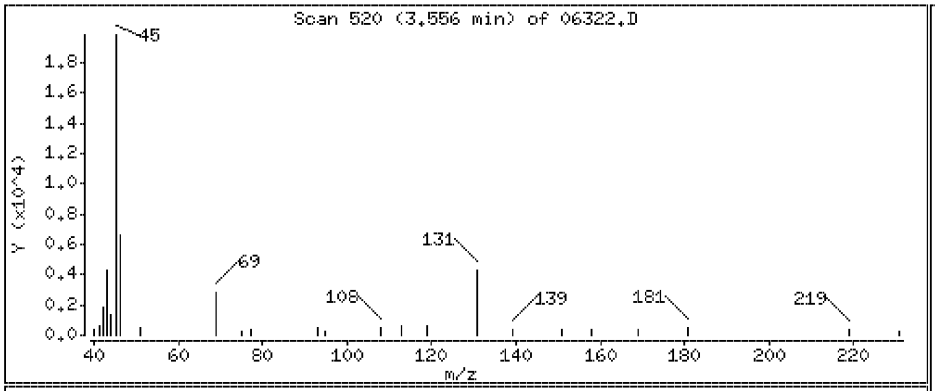
Operator: MJL

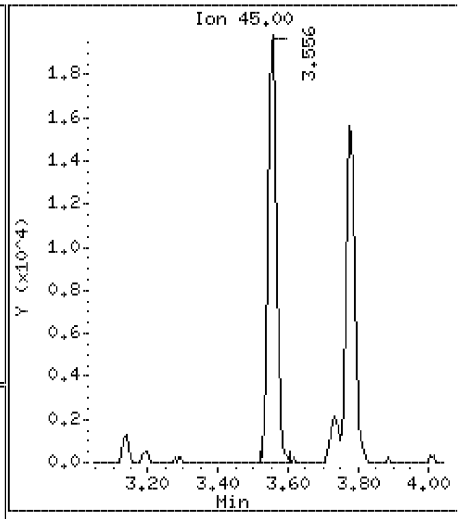
Column phase: J&W DB-5

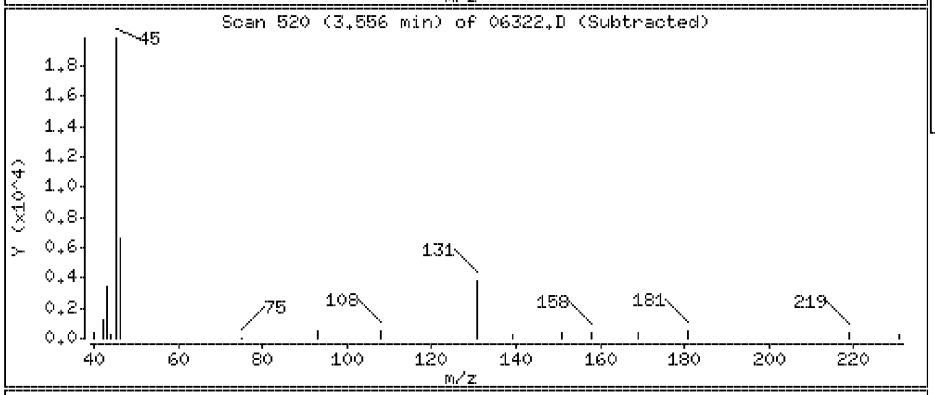
Column diameter: 0.32

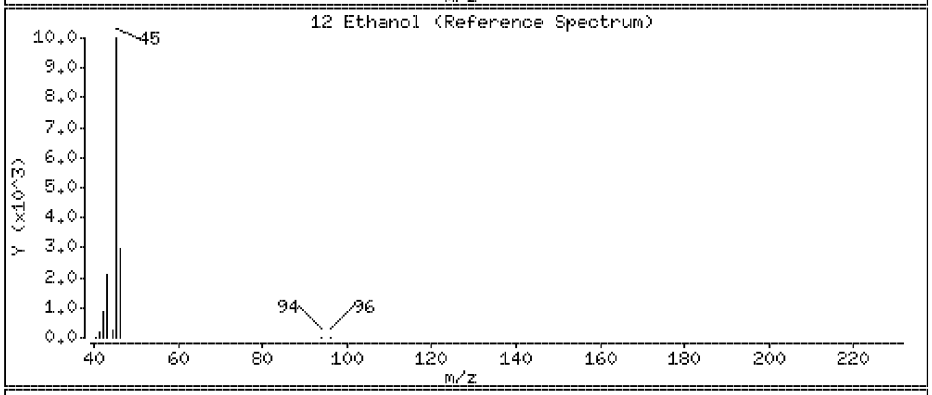
12 Ethanol

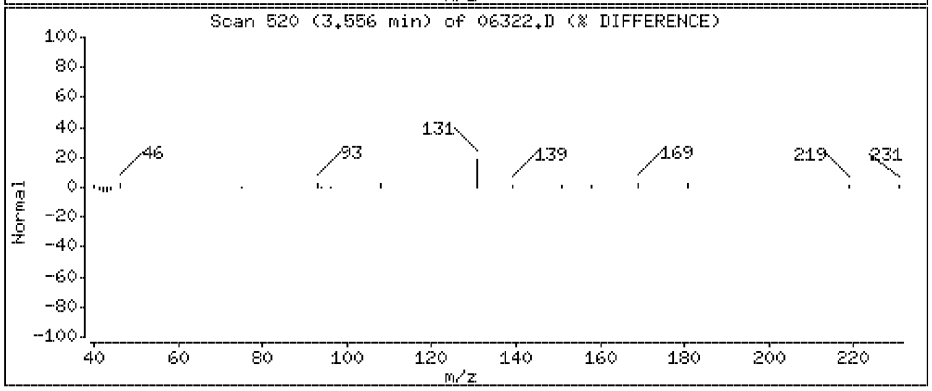
Concentration: 17.5 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

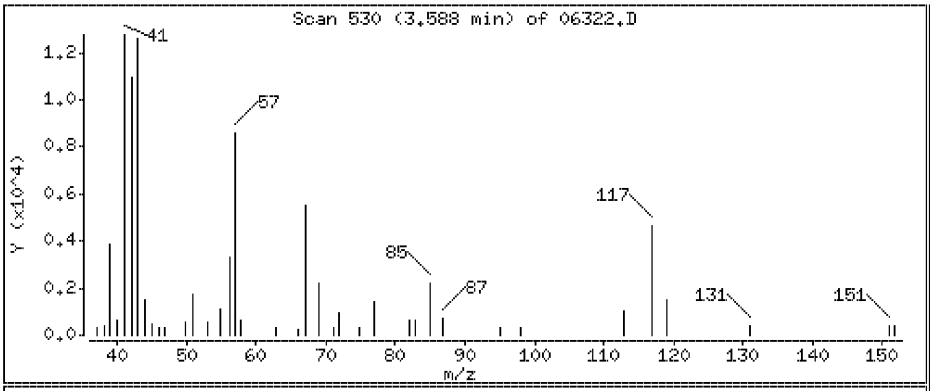
Operator: MJL

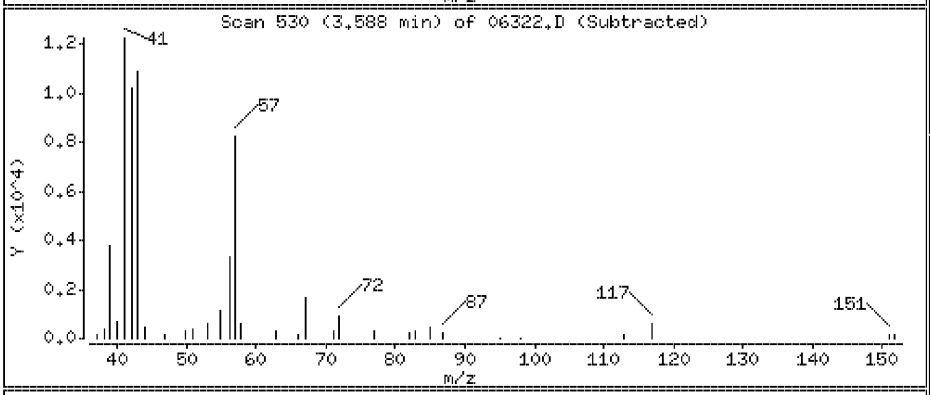
Column phase: J&W DB-5

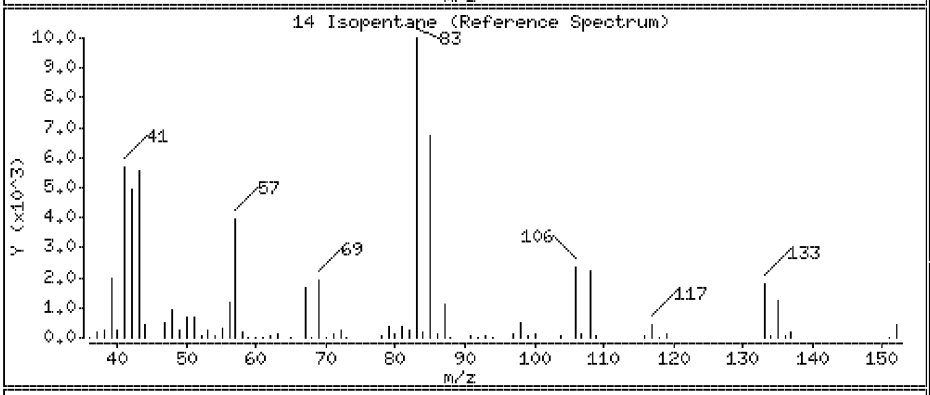
Column diameter: 0.32

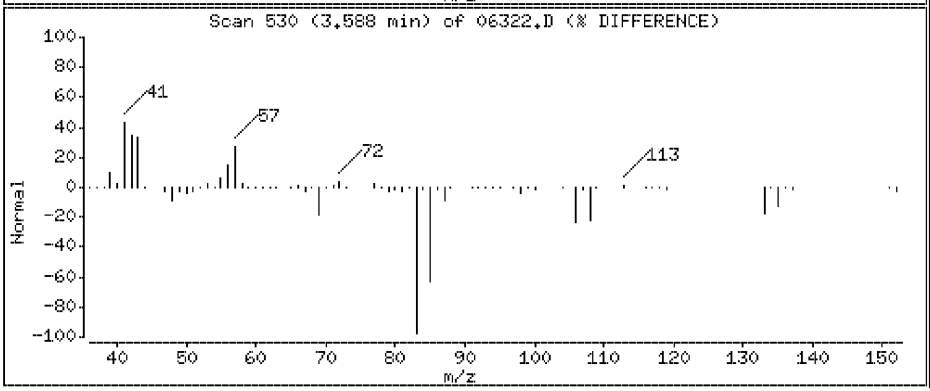
14 Isopentane

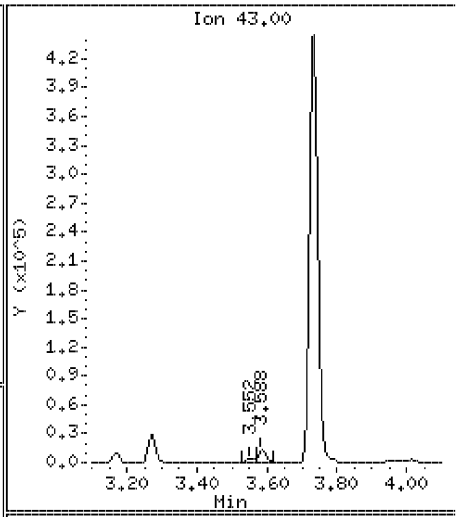
Concentration: 3.49 ppbv

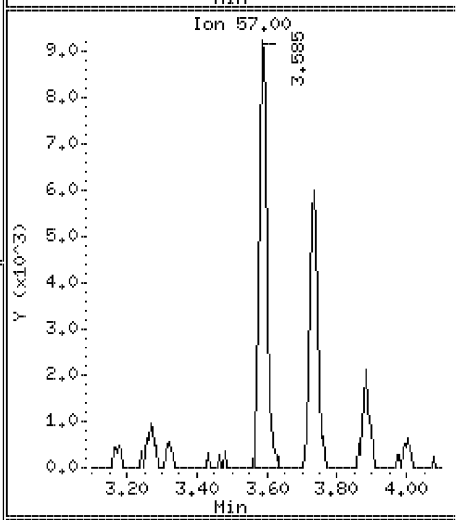


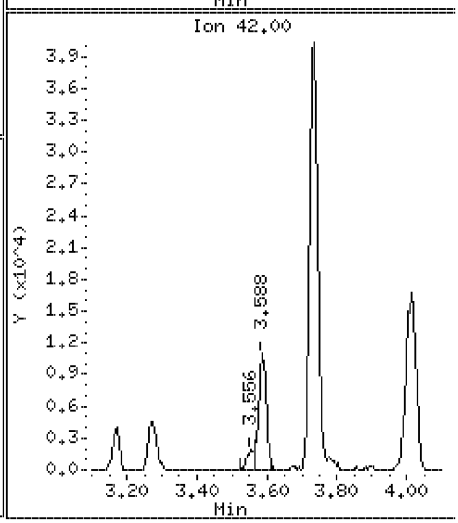












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

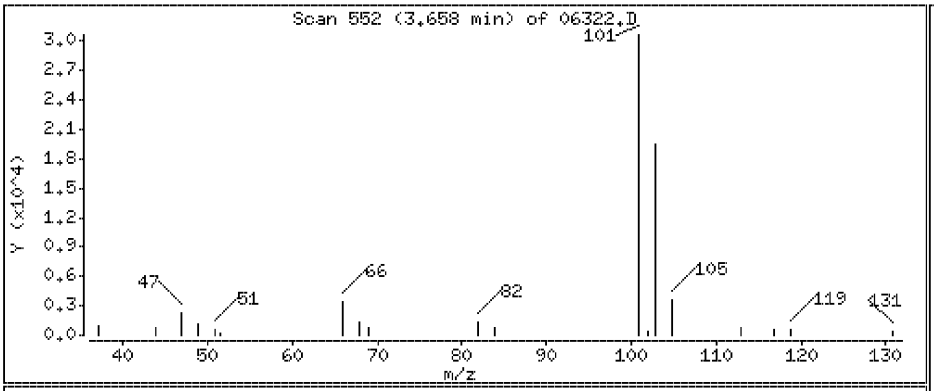
Operator: MJL

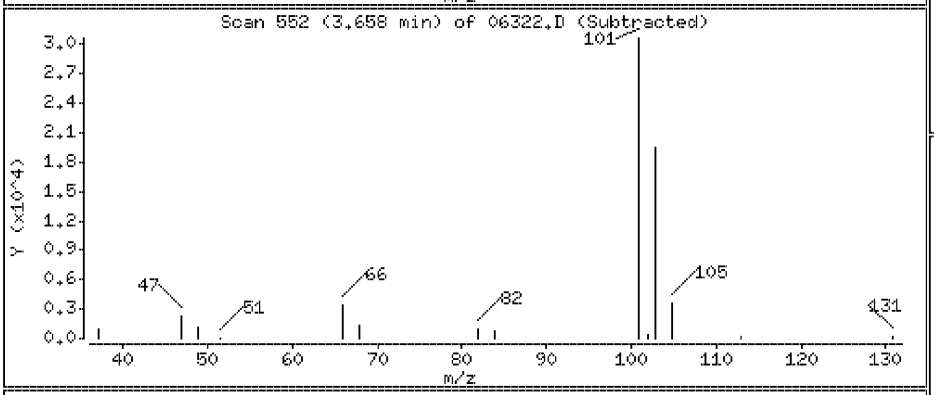
Column phase: J&W DB-5

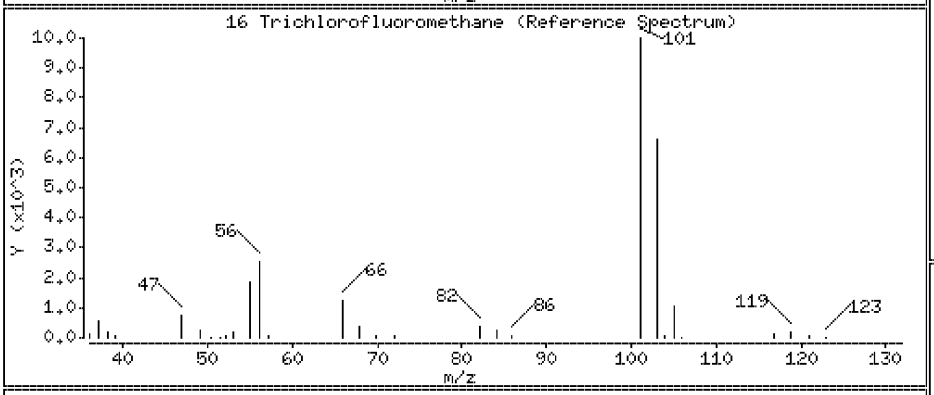
Column diameter: 0.32

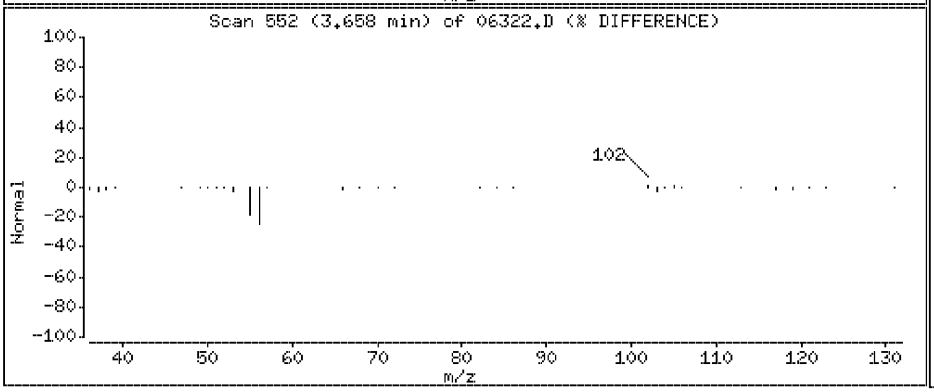
16 Trichlorofluoromethane

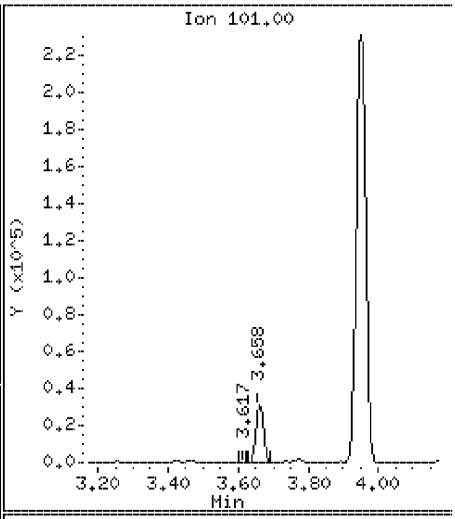
Concentration: 3.33 ppbv

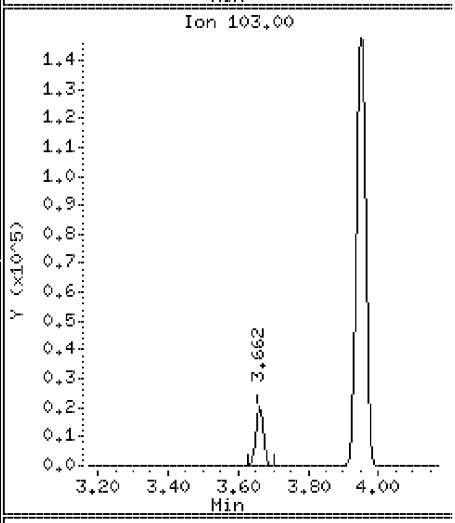


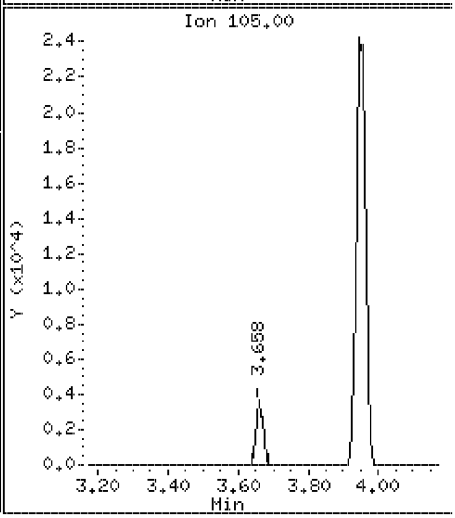












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

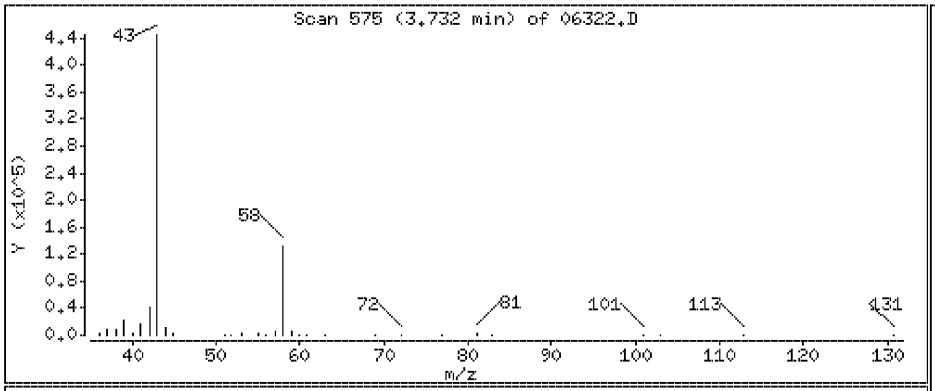
Operator: MJL

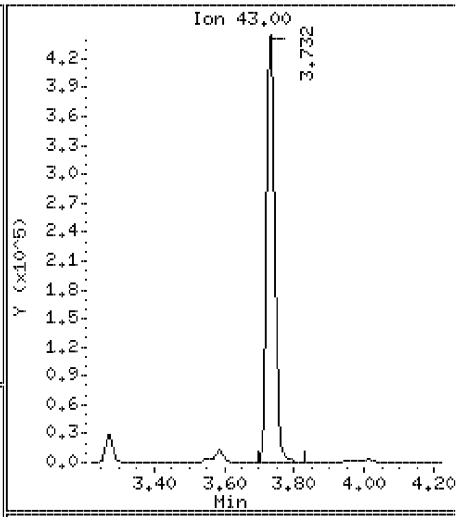
Column phase: J&W DB-5

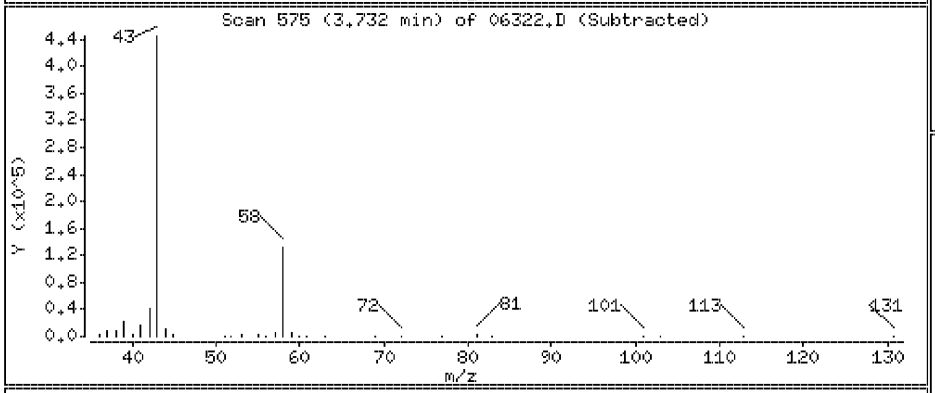
Column diameter: 0.32

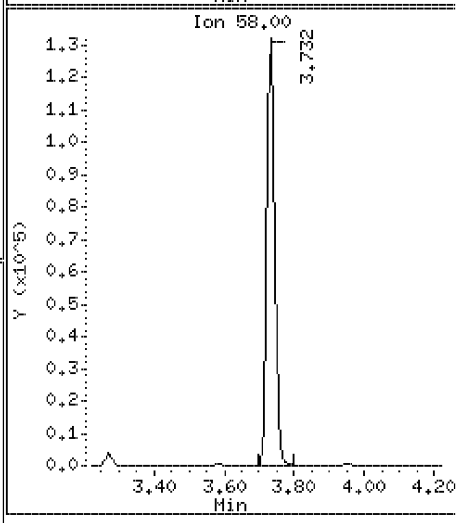
18 Acetone

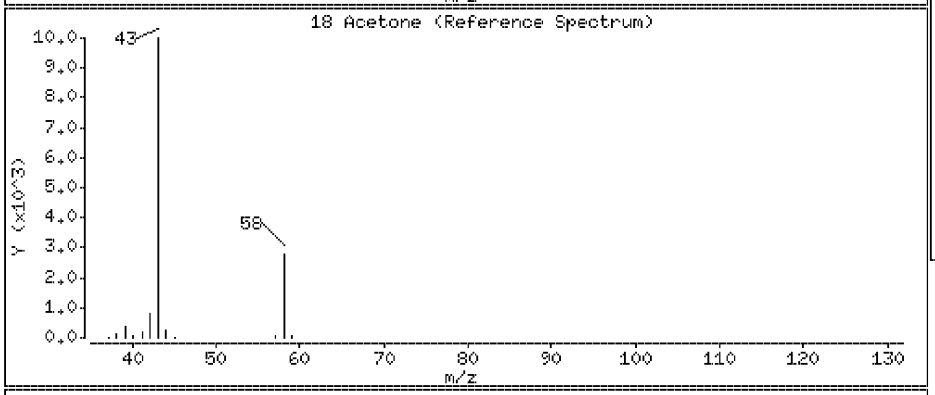
Concentration: 89.8 ppbv

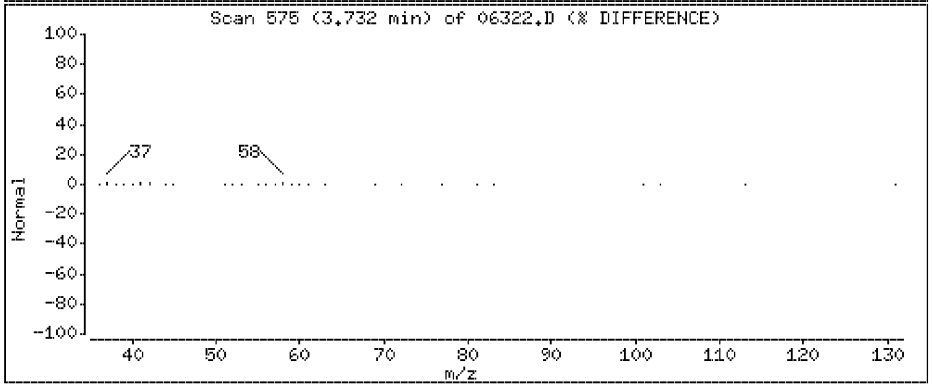












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

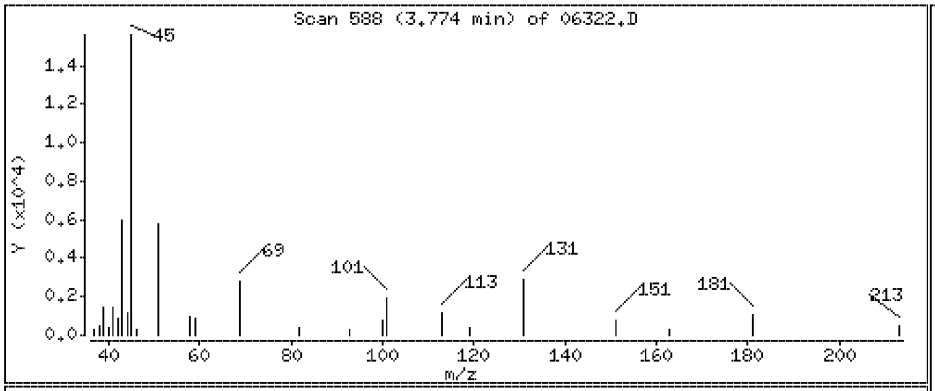
Operator: MJL

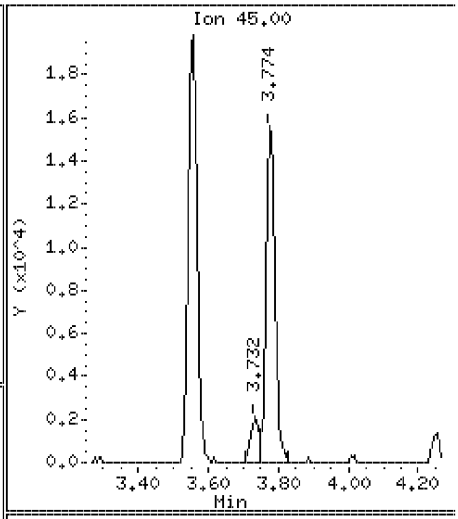
Column phase: J&W DB-5

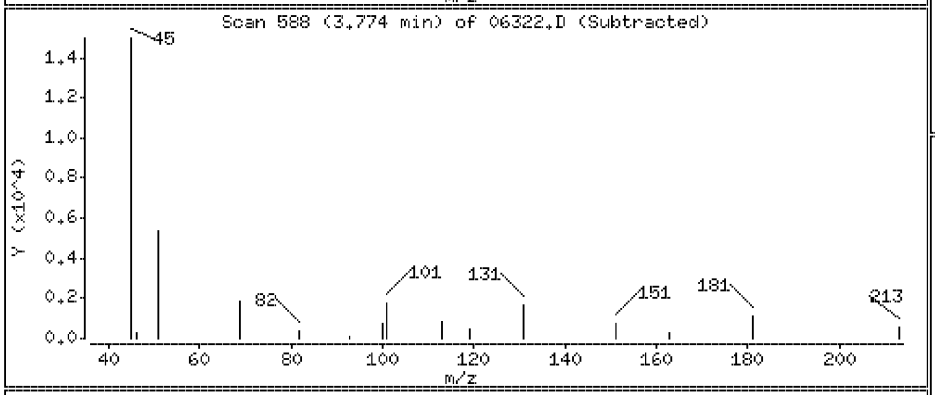
Column diameter: 0.32

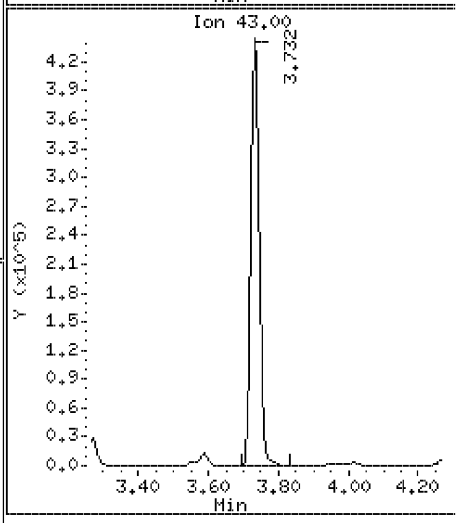
19 Isopropyl Alcohol

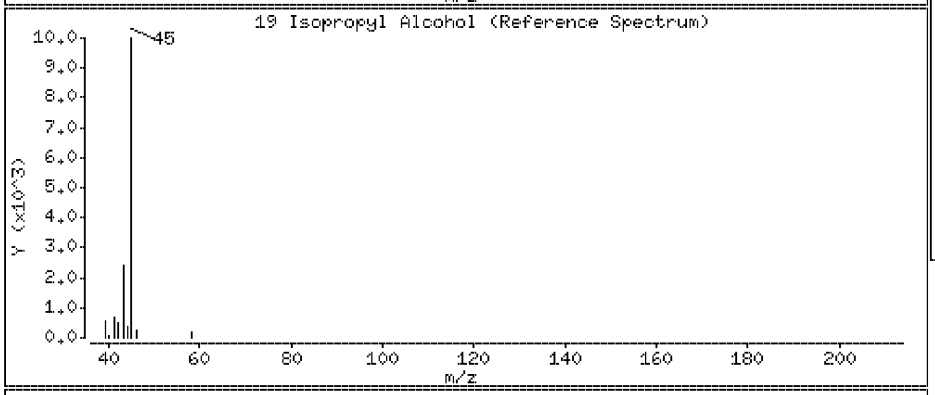
Concentration: 3.29 ppbv

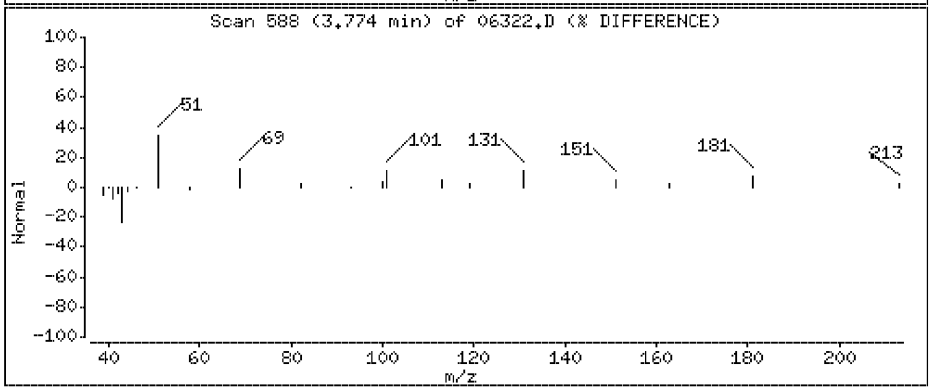












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

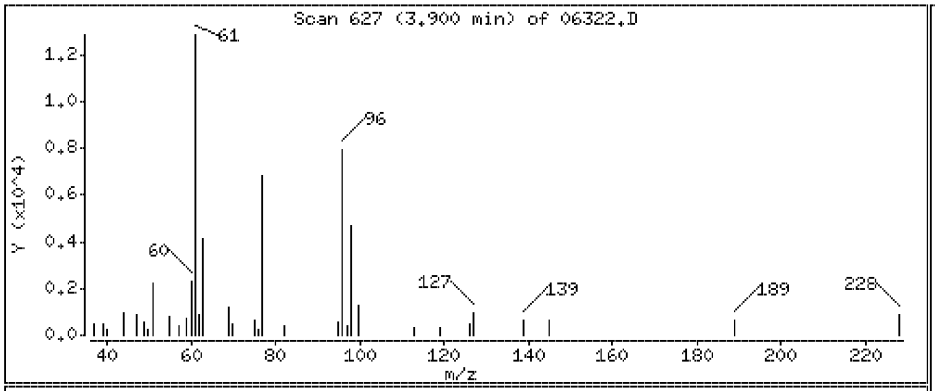
Operator: MJL

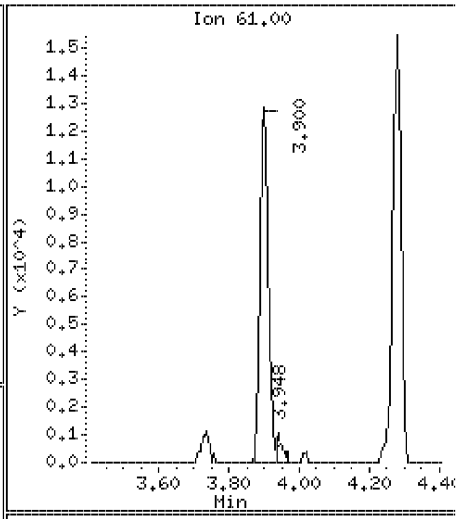
Column phase: J&W DB-5

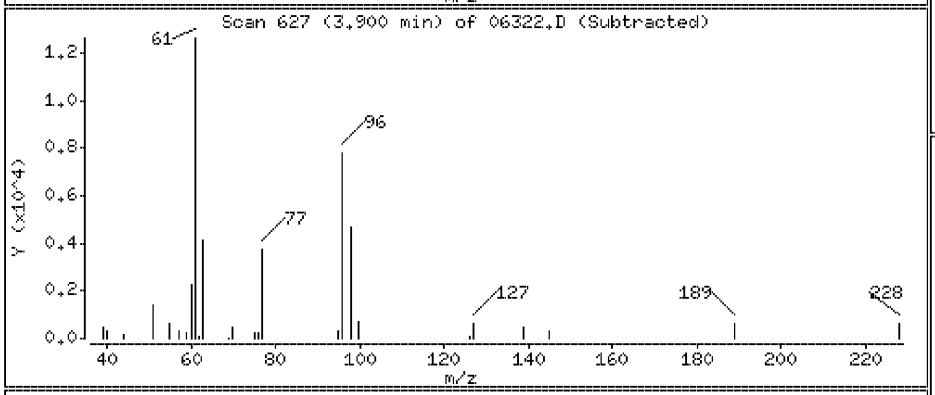
Column diameter: 0.32

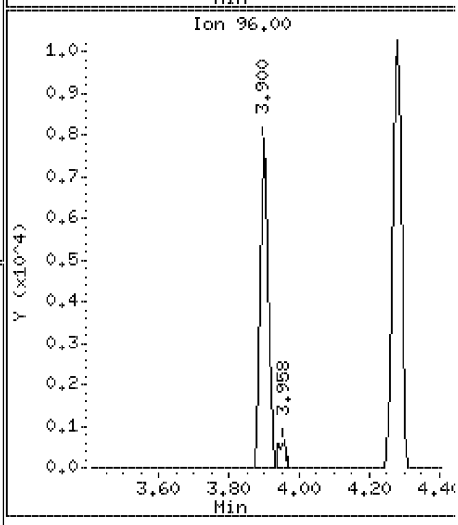
20 1,1-Dichloroethene

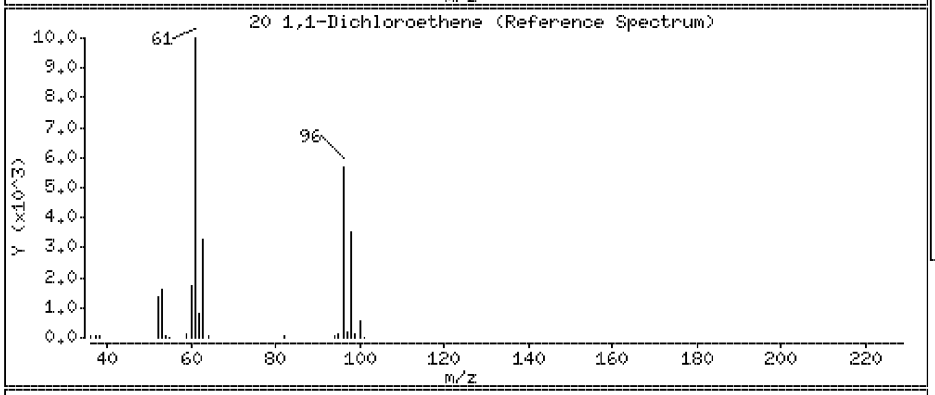
Concentration: 2.57 ppbv

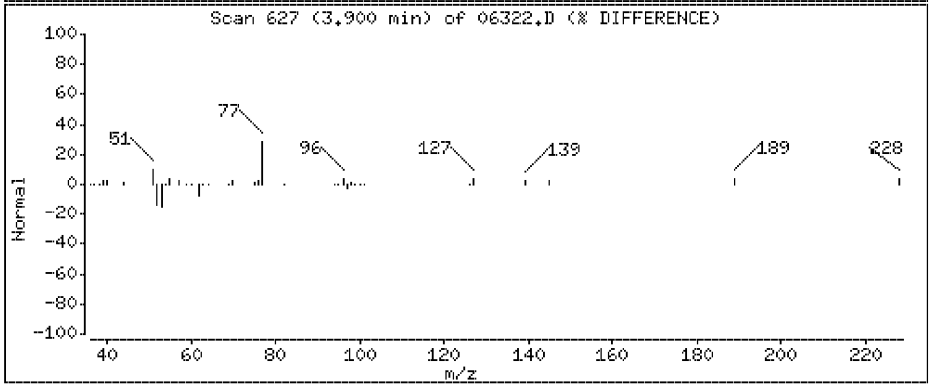












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

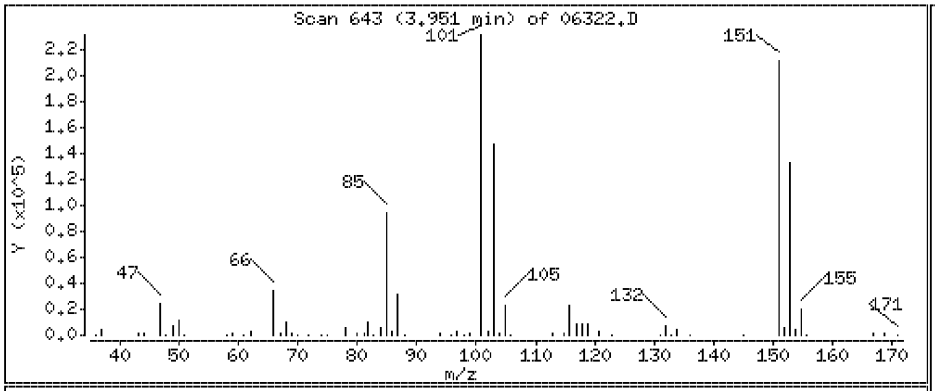
Operator: MJL

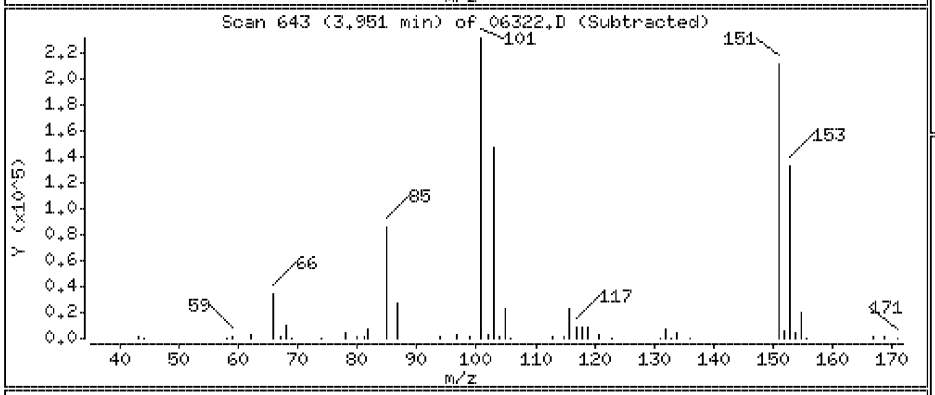
Column phase: J&W DB-5

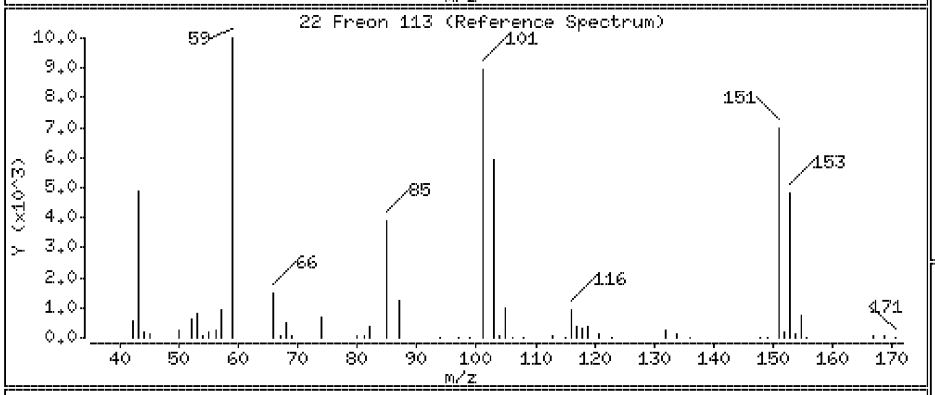
Column diameter: 0.32

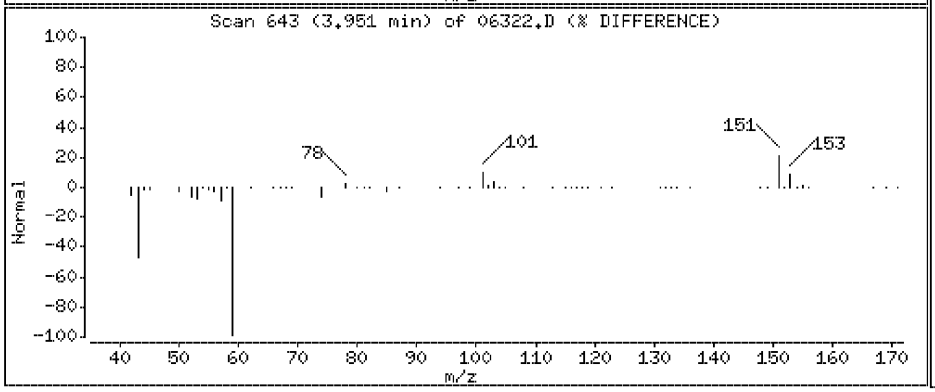
22 Freon 113

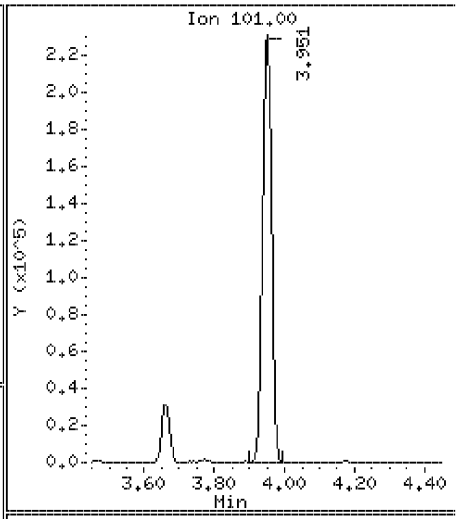
Concentration: 39.6 ppbv

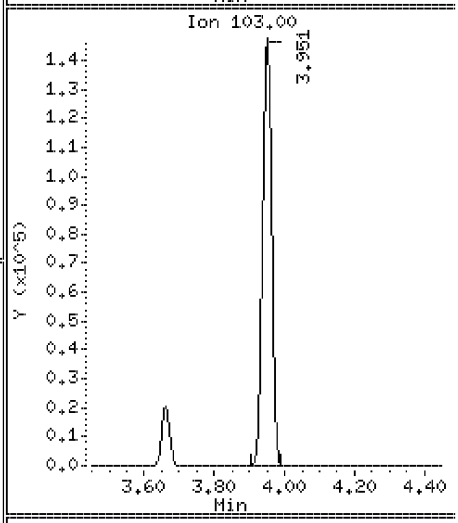


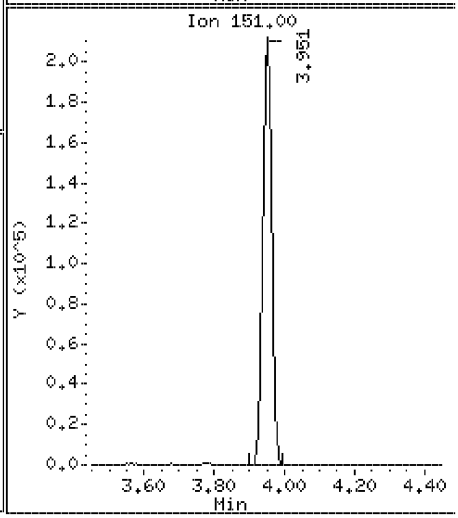












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

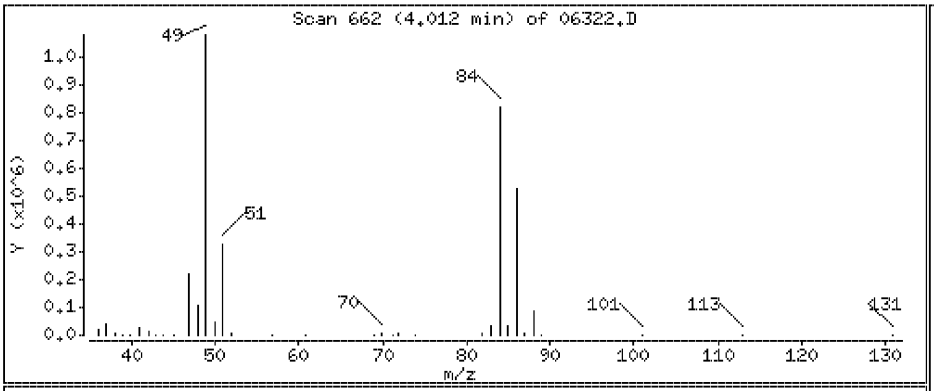
Operator: MJL

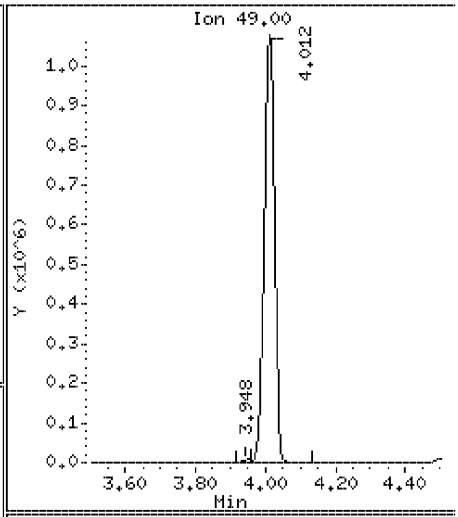
Column phase: J&W DB-5

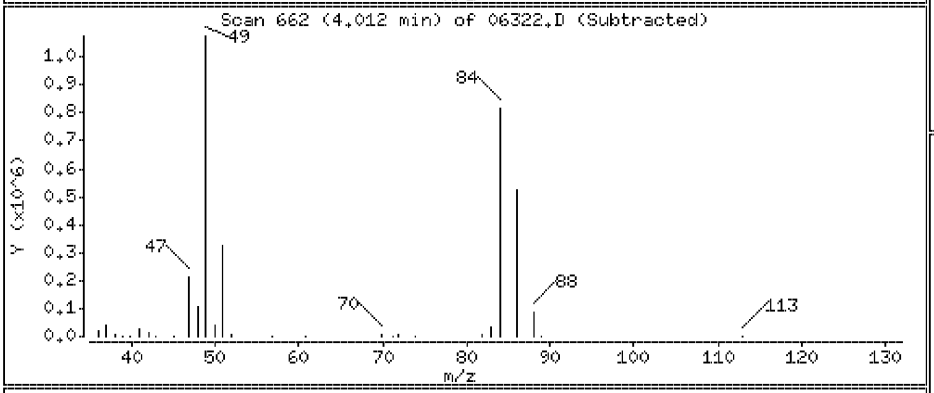
Column diameter: 0.32

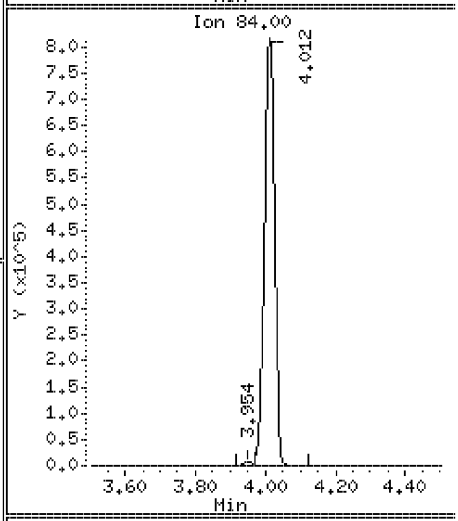
25 Methylene chloride

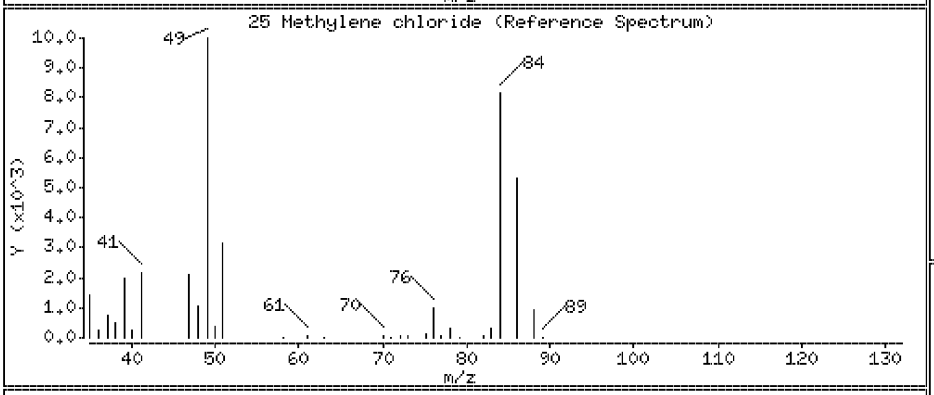
Concentration: 389 ppbv

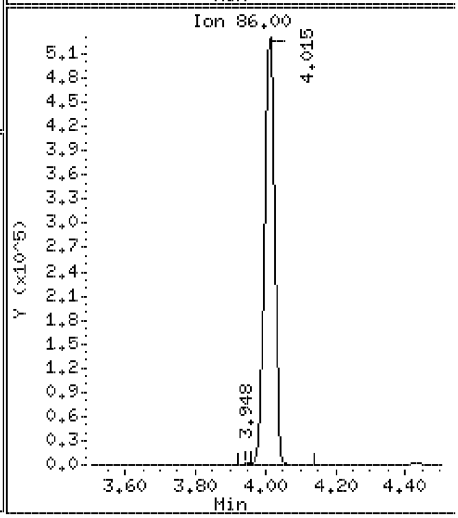


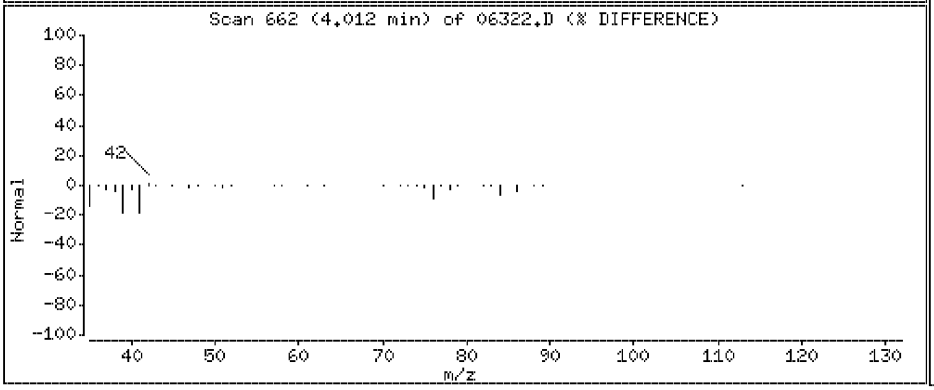












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

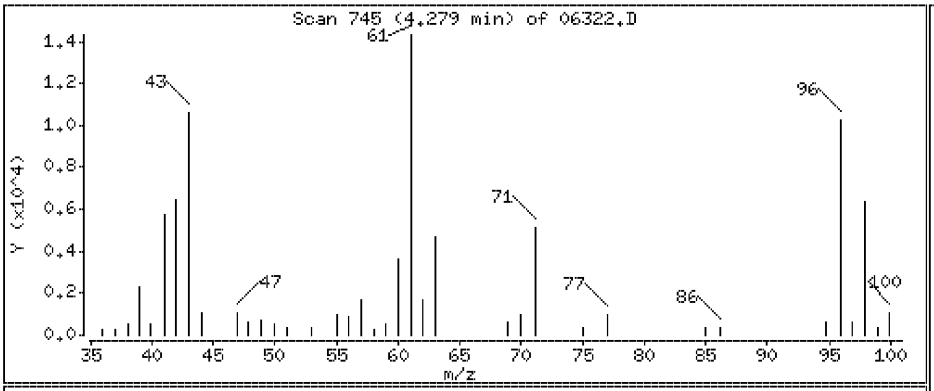
Operator: MJL

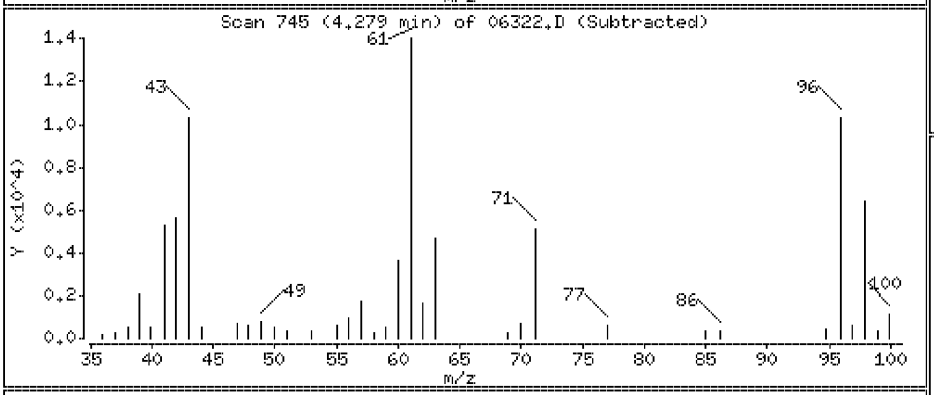
Column phase: J&W DB-5

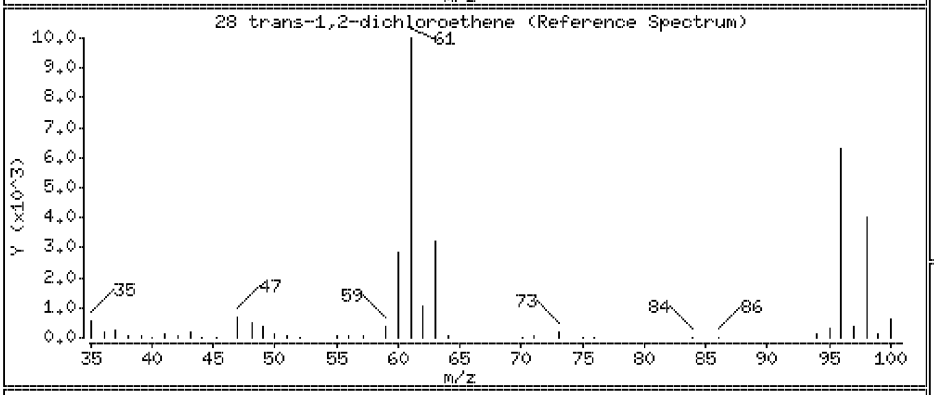
Column diameter: 0.32

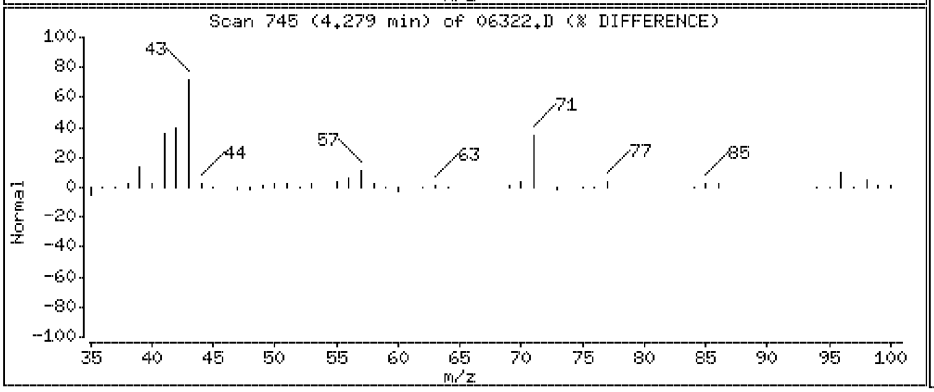
28 trans-1,2-dichloroethene

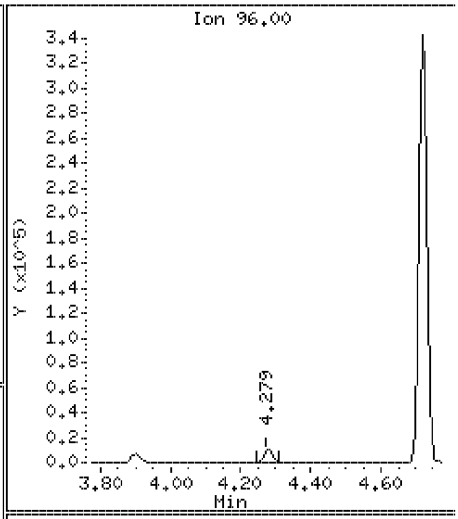
Concentration: 3.75 ppbv

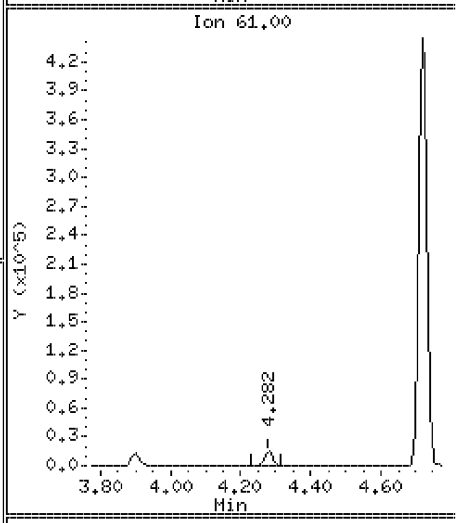


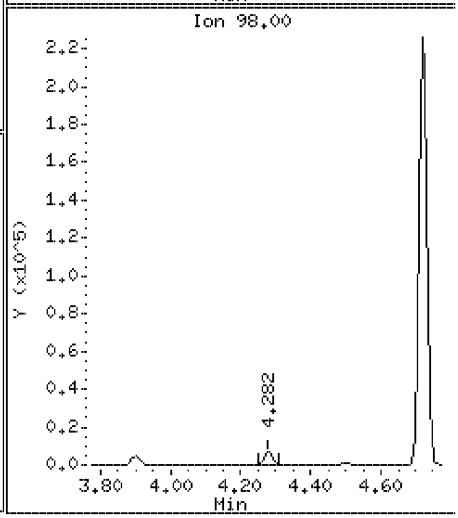












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

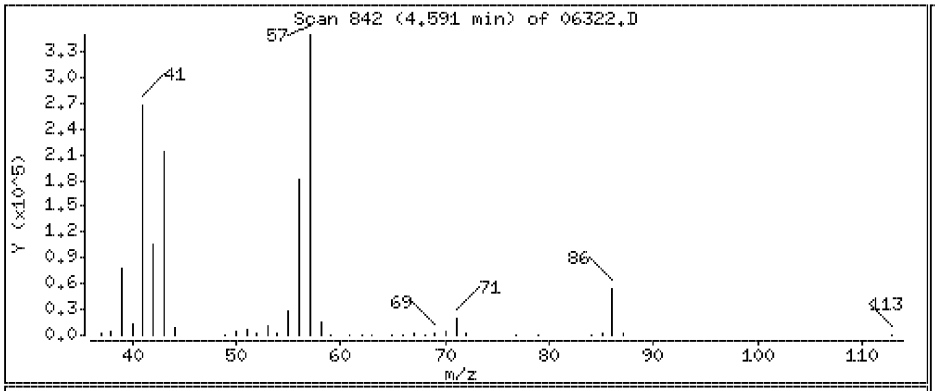
Operator: MJL

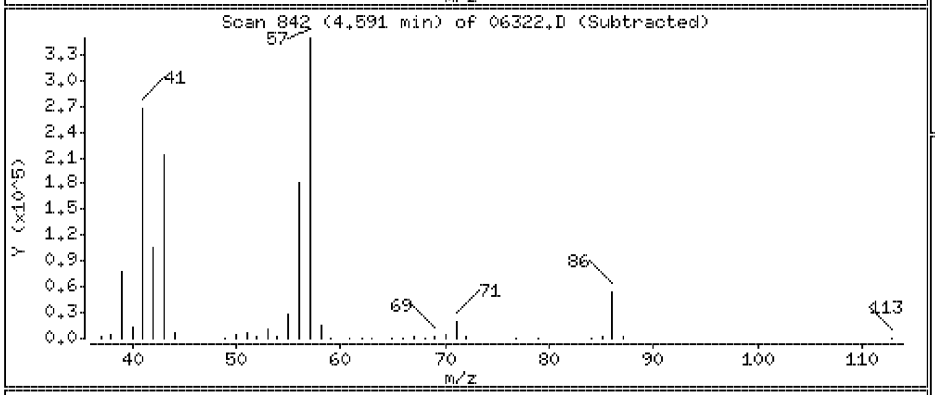
Column phase: J&W DB-5

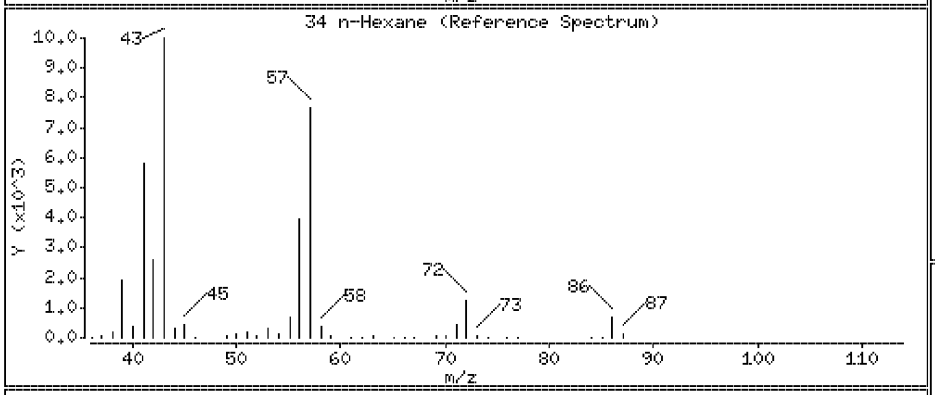
Column diameter: 0.32

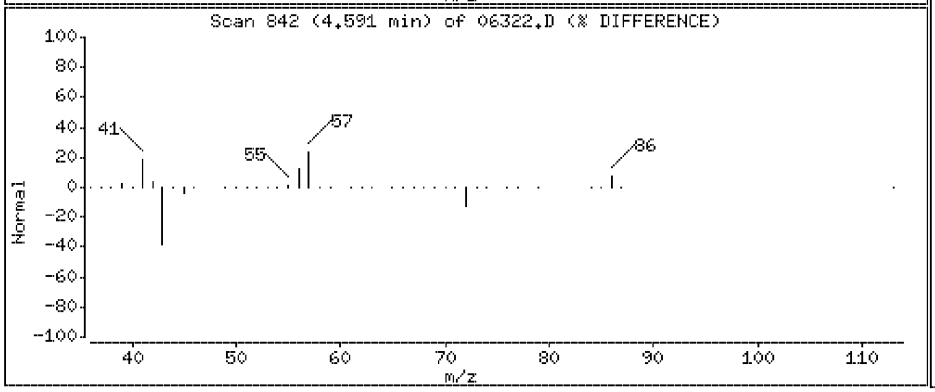
34 n-Hexane

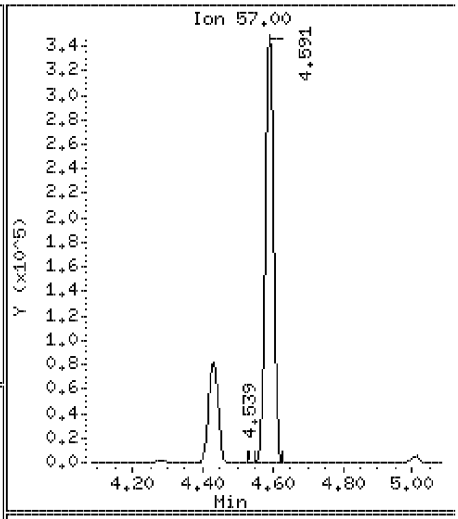
Concentration: 69.2 ppbv

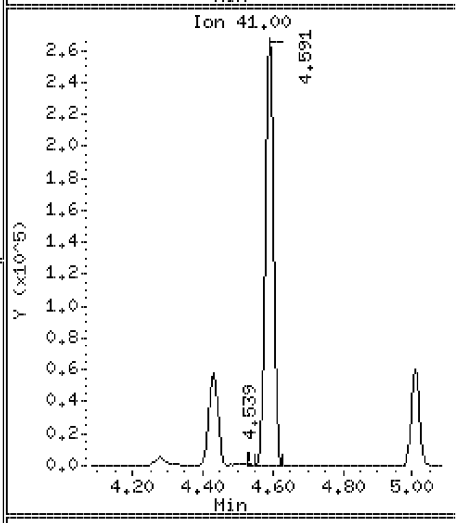


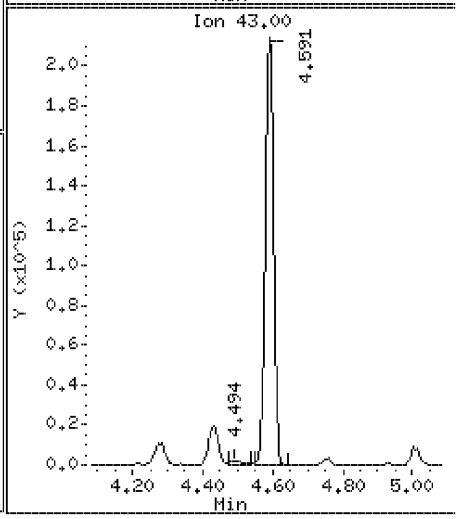












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

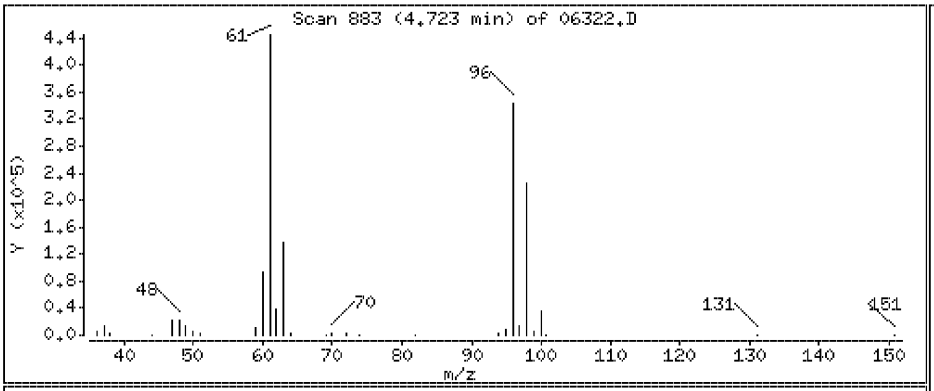
Operator: MJL

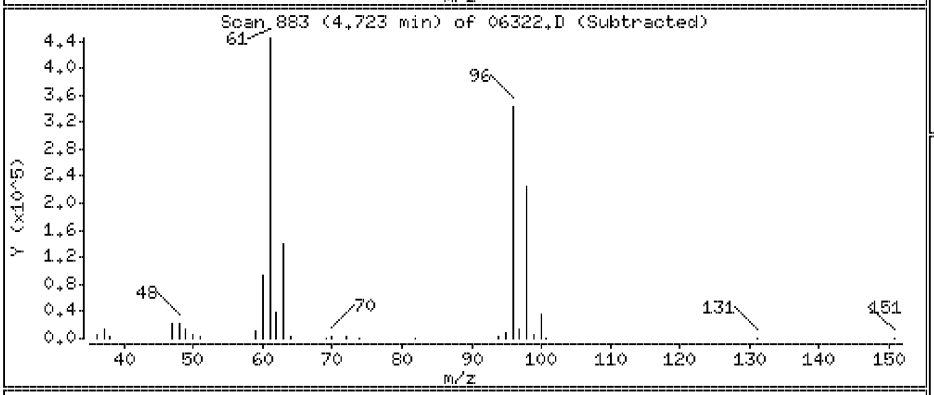
Column phase: J&W DB-5

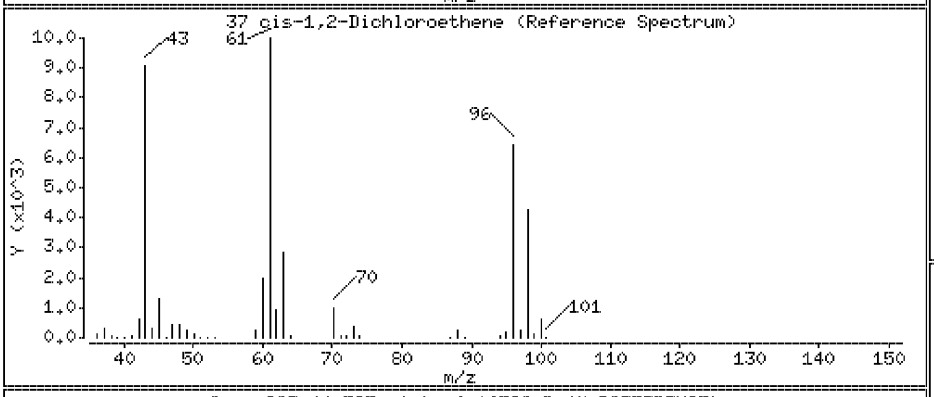
Column diameter: 0.32

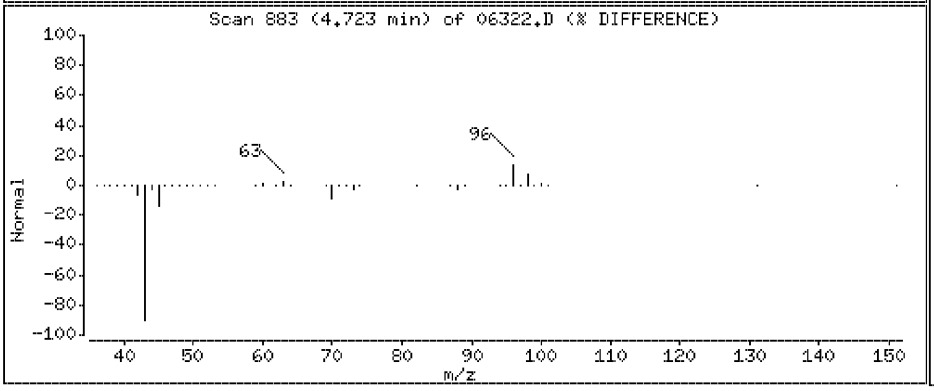
37 cis-1,2-Dichloroethene

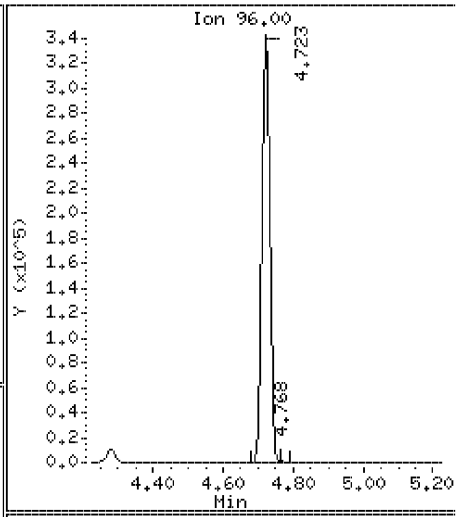
Concentration: 105 ppbv

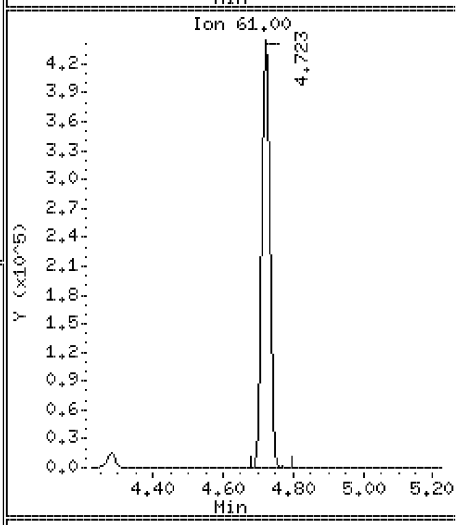


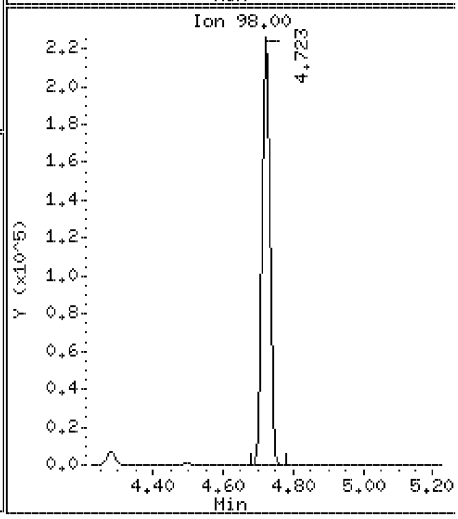












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

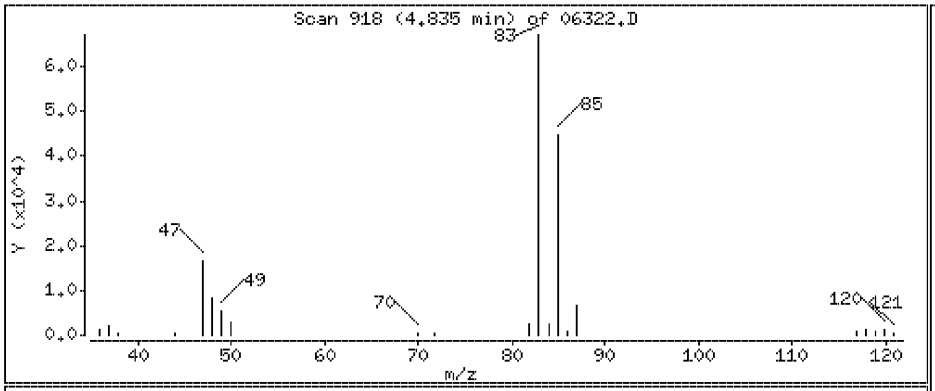
Operator: MJL

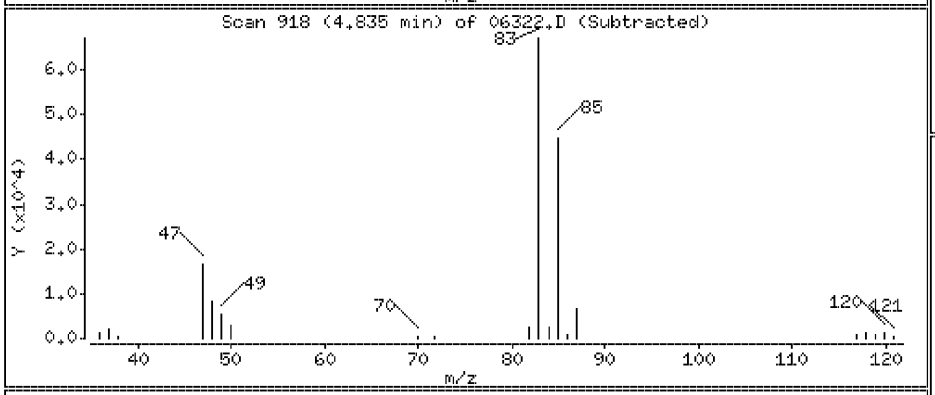
Column phase: J&W DB-5

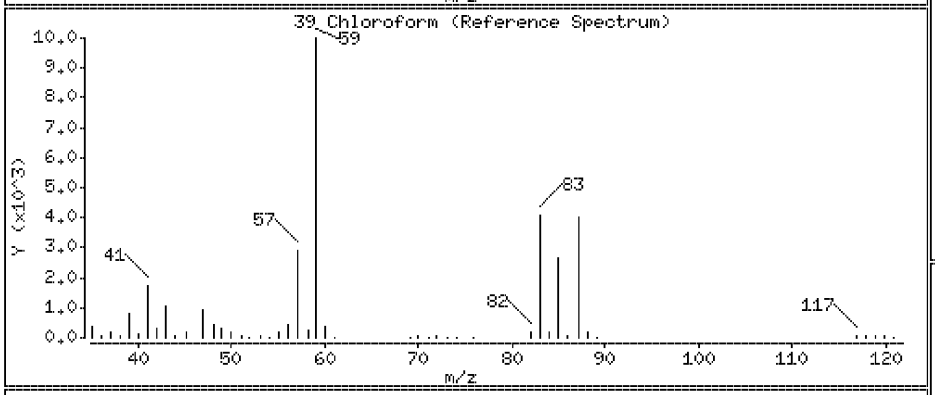
Column diameter: 0.32

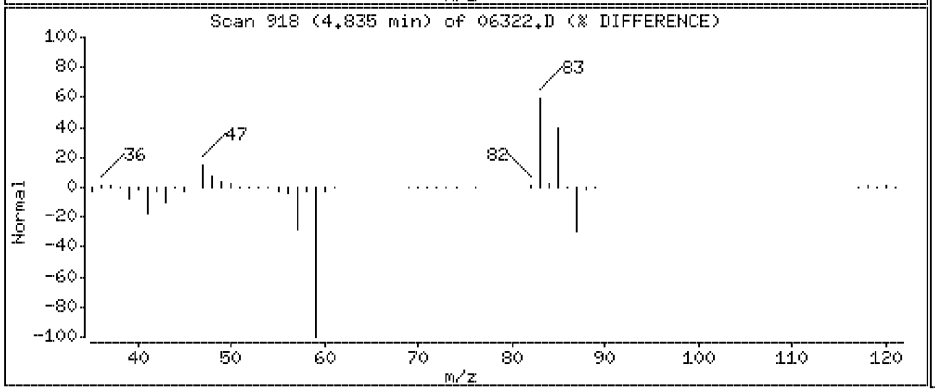
39 Chloroform

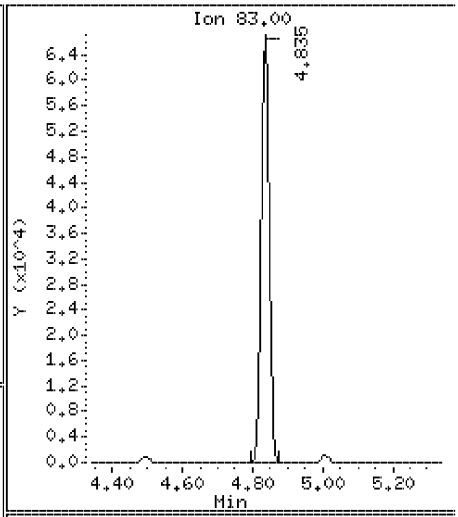
Concentration: 9.90 ppbv

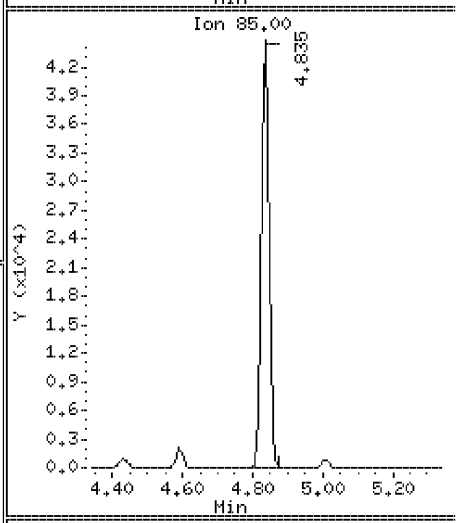


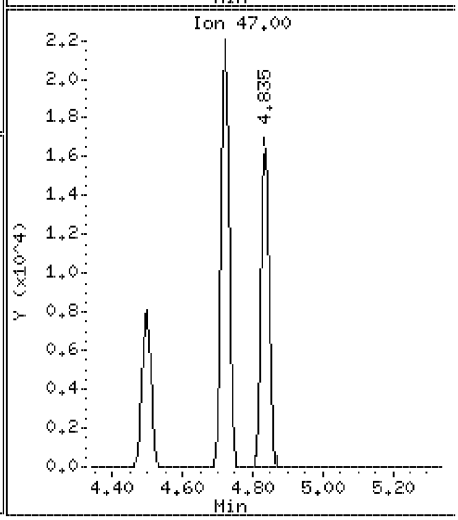












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

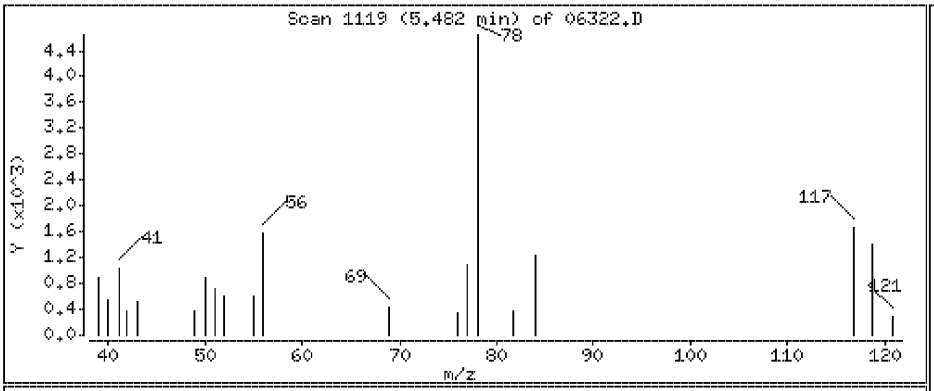
Operator: MJL

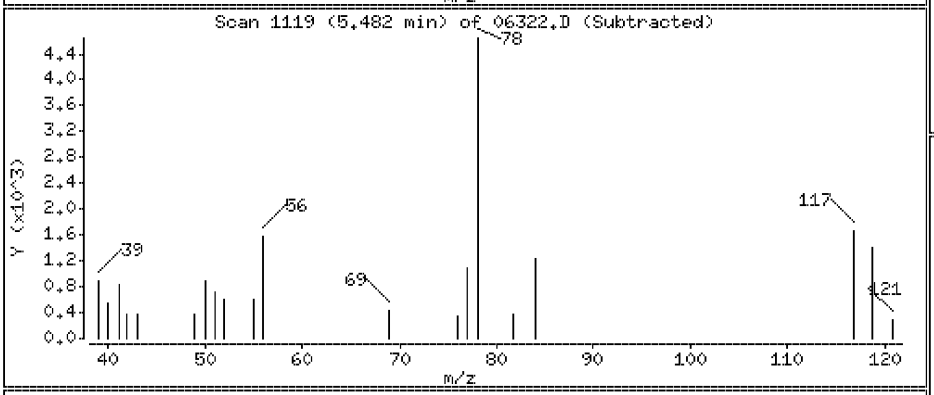
Column phase: J&W DB-5

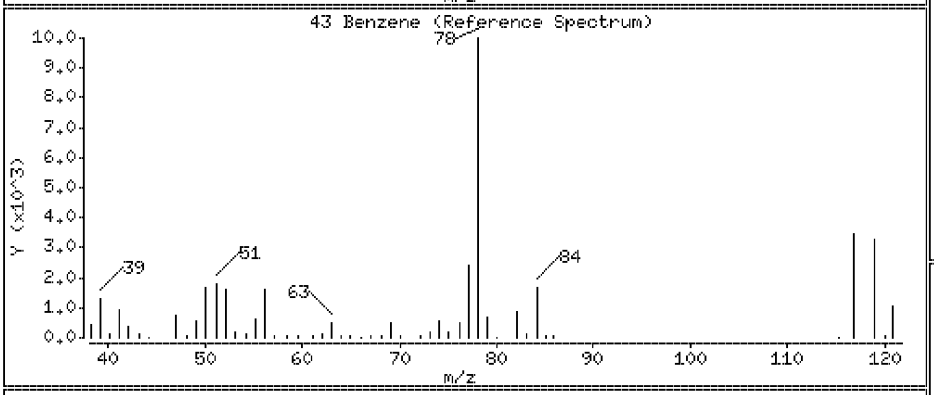
Column diameter: 0.32

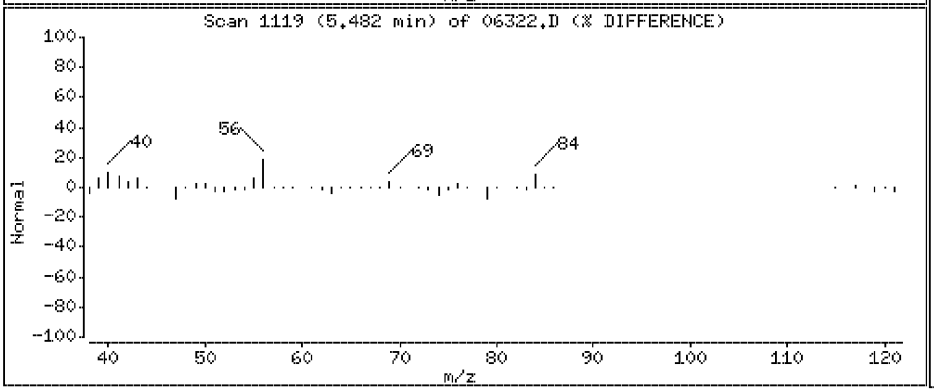
43 Benzene

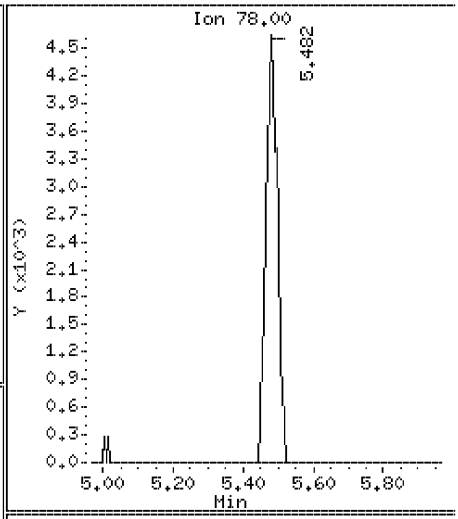
Concentration: 0.652 ppbv

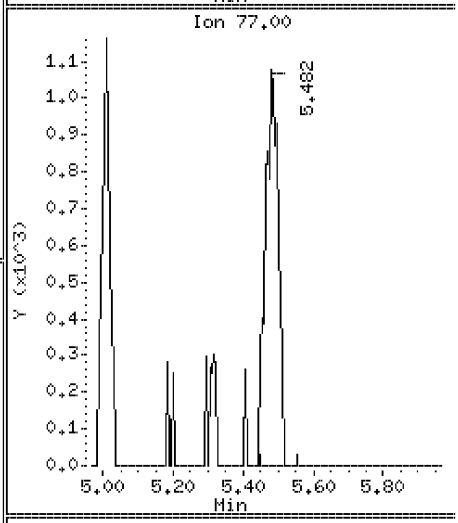


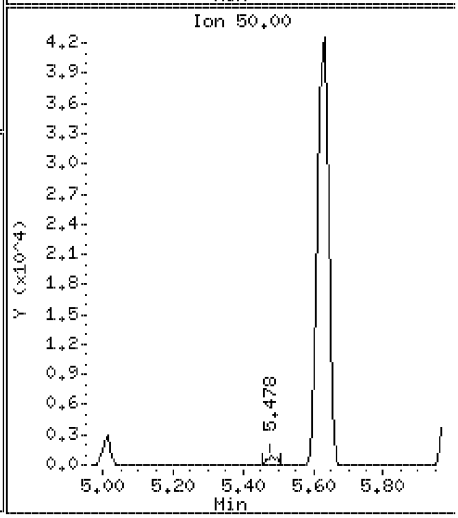












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

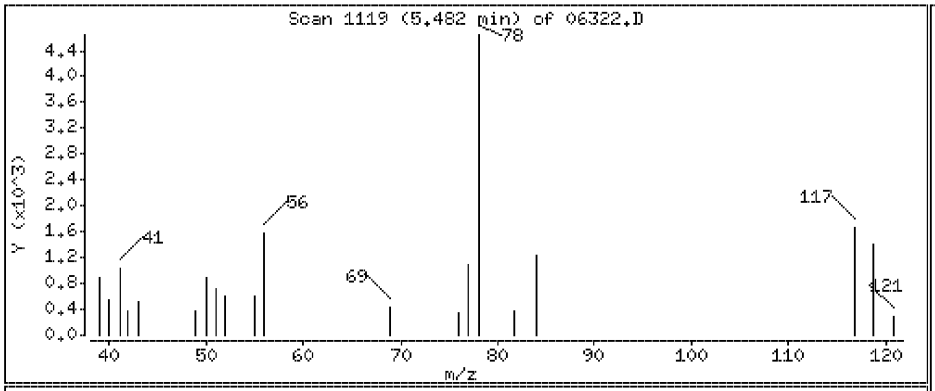
Operator: MJL

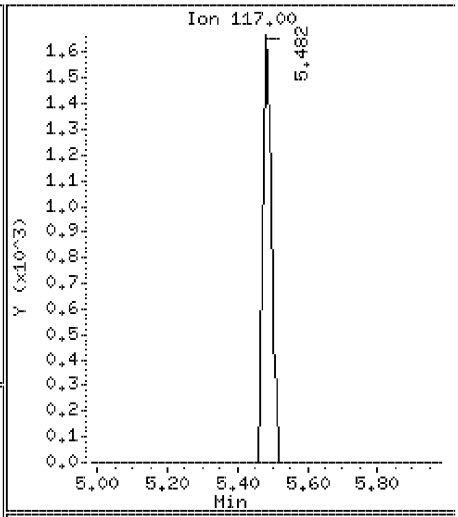
Column phase: J&W DB-5

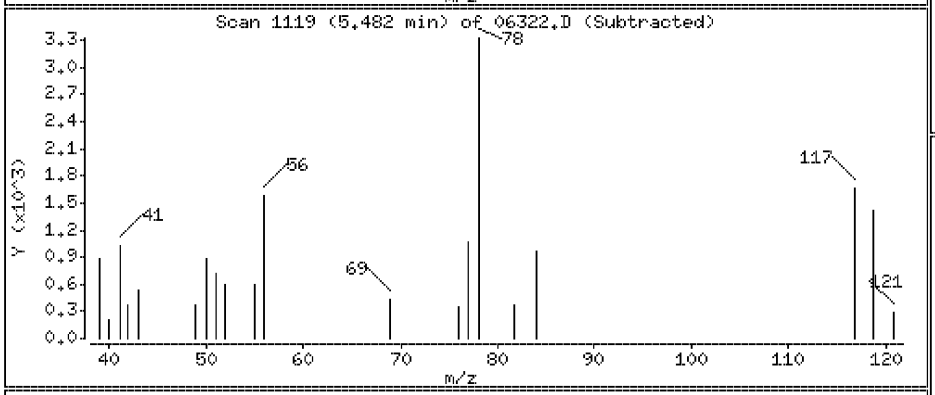
Column diameter: 0.32

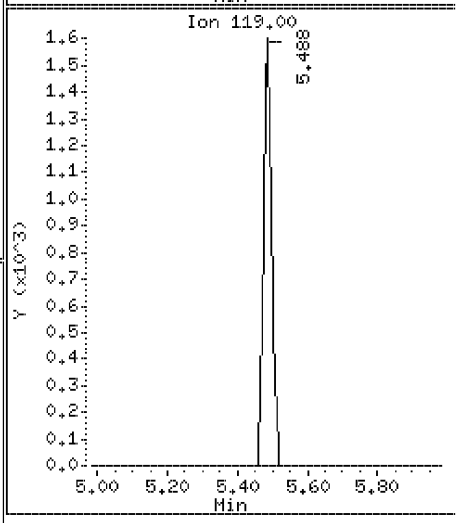
44 Carbon tetrachloride

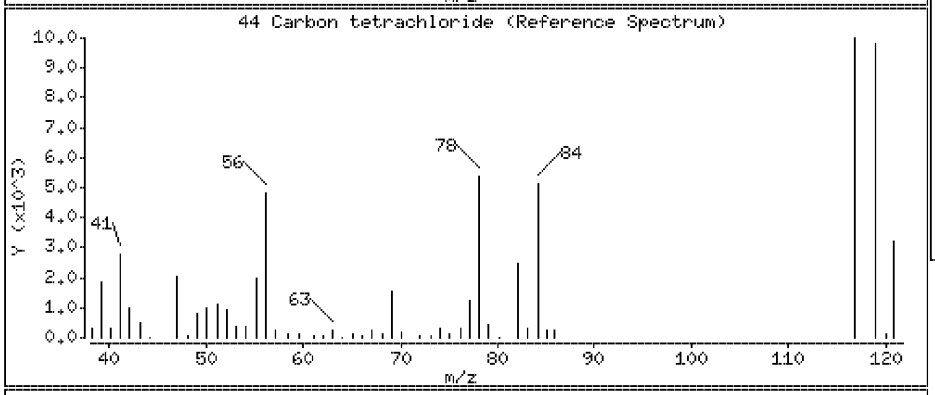
Concentration: 0.214 ppbv

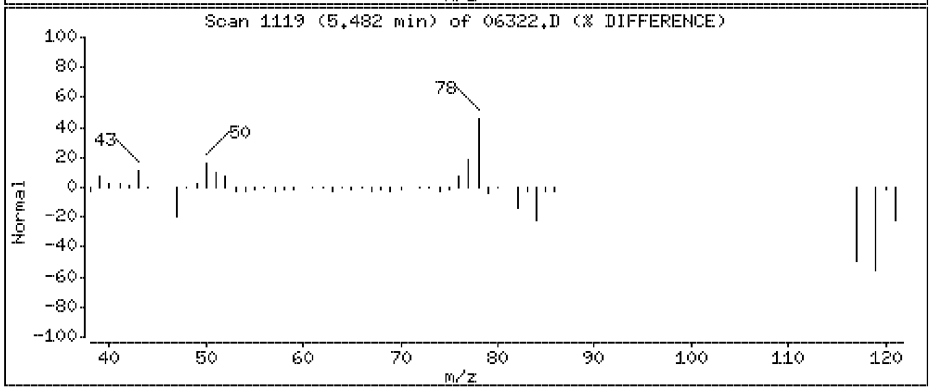












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

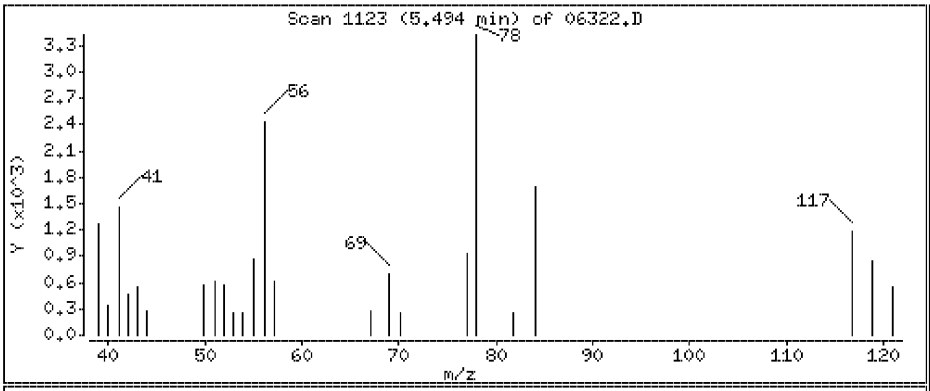
Operator: MJL

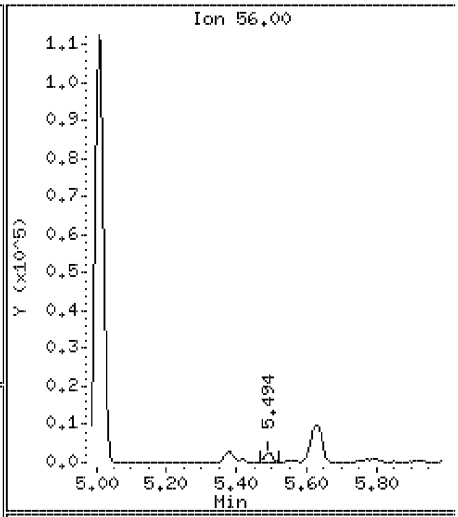
Column phase: J&W DB-5

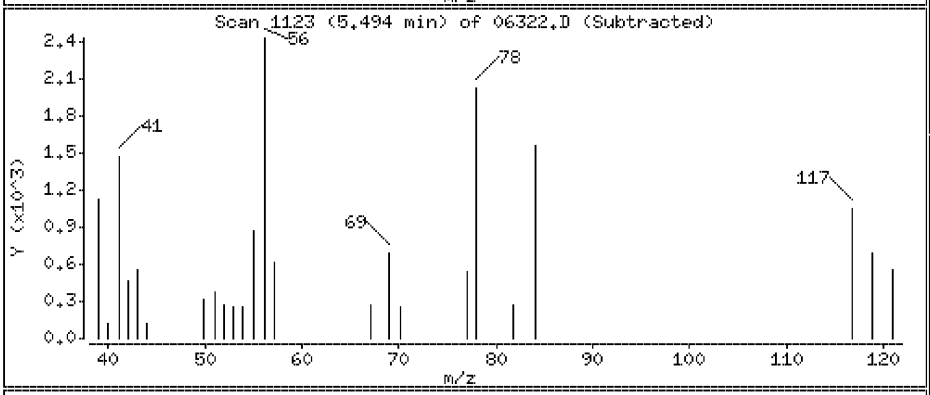
Column diameter: 0.32

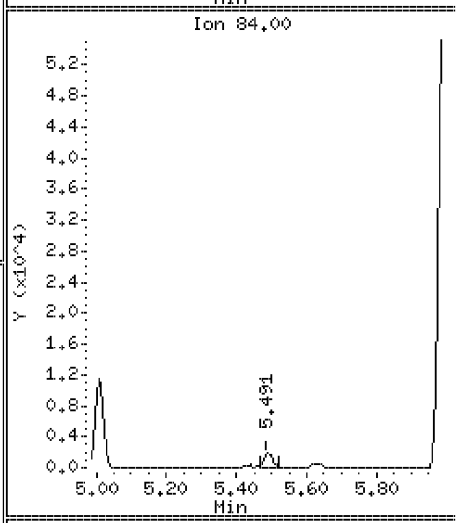
45 Cyclohexane

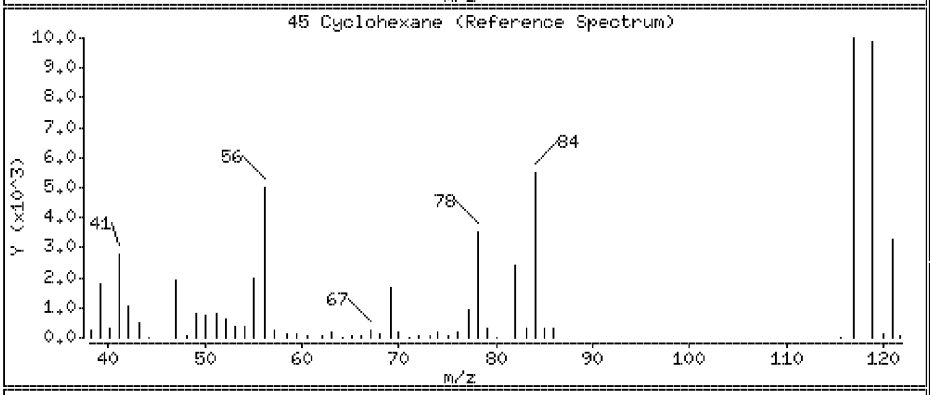
Concentration: 0.527 ppbv

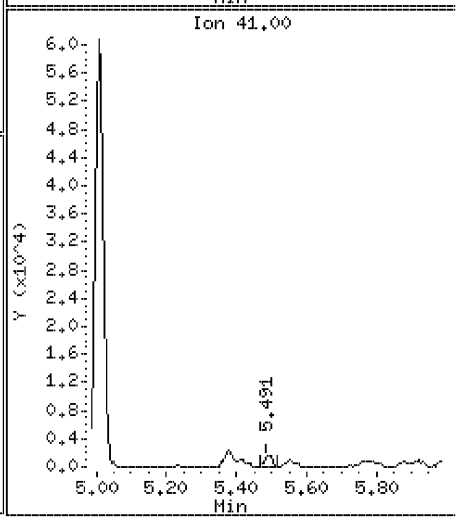


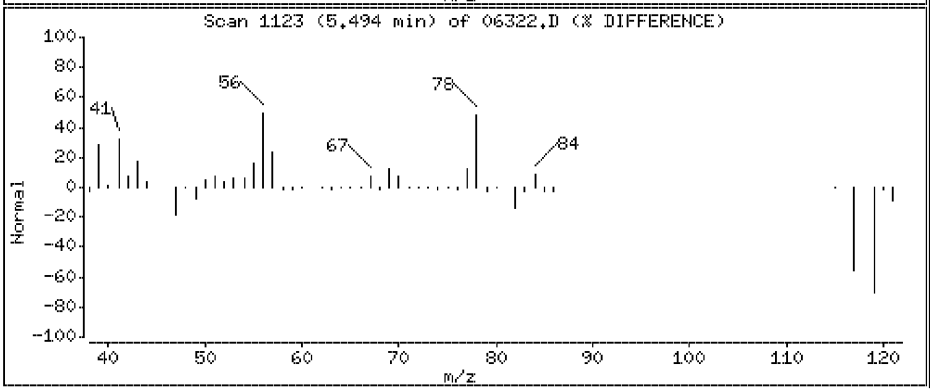












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

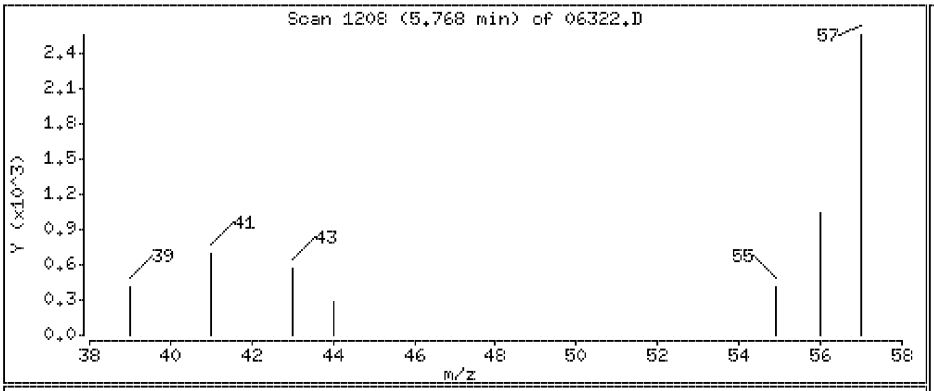
Operator: MJL

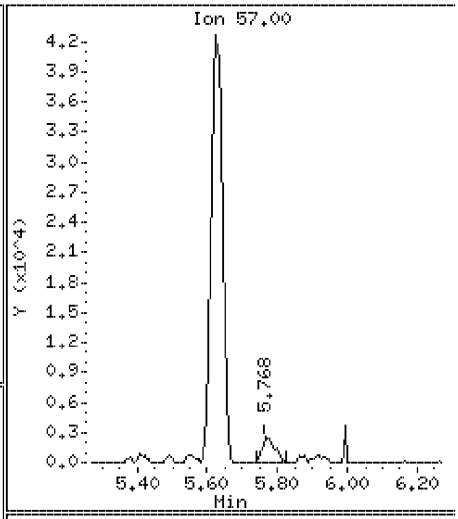
Column phase: J&W DB-5

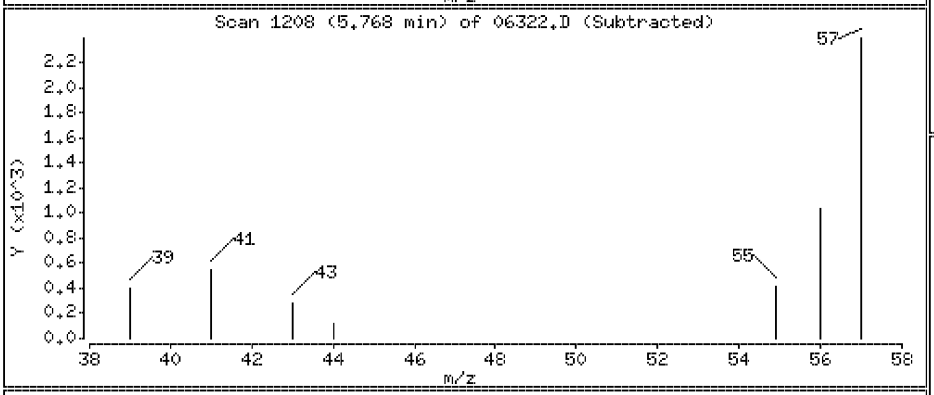
Column diameter: 0.32

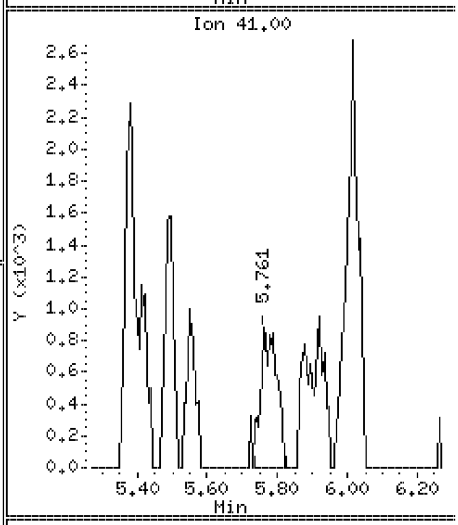
48 2,2,4-Trimethylpentane

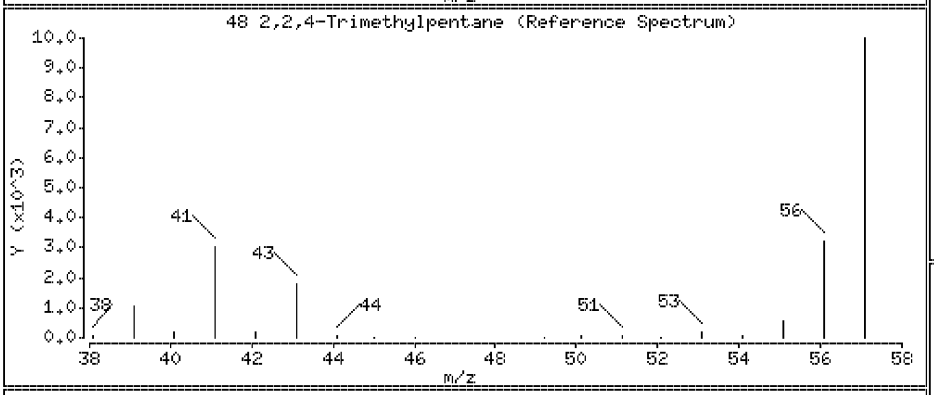
Concentration: 0.248 ppbv

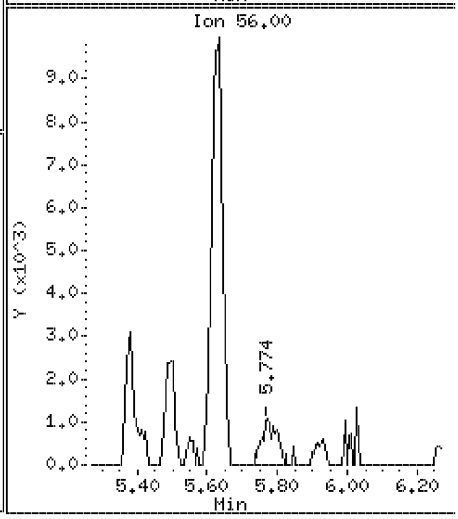


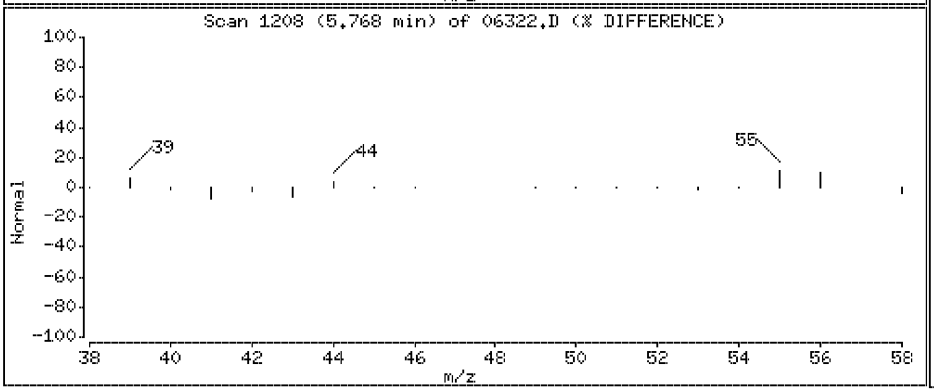












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

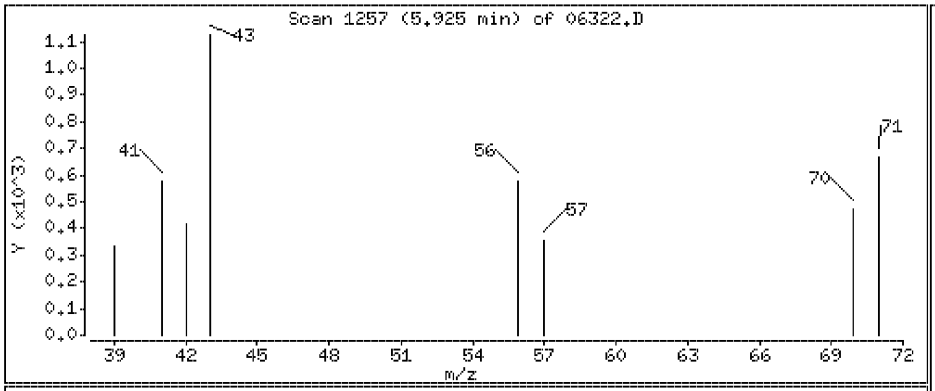
Operator: MJL

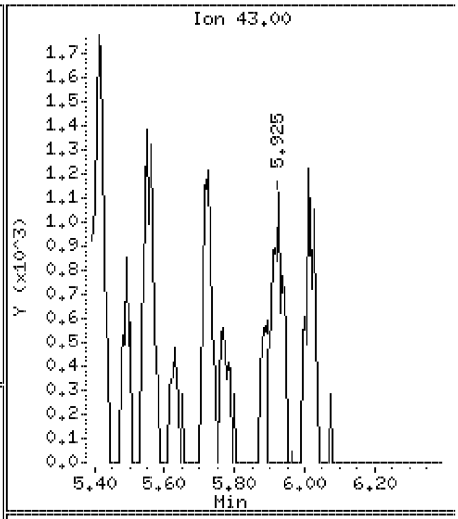
Column phase: J&W DB-5

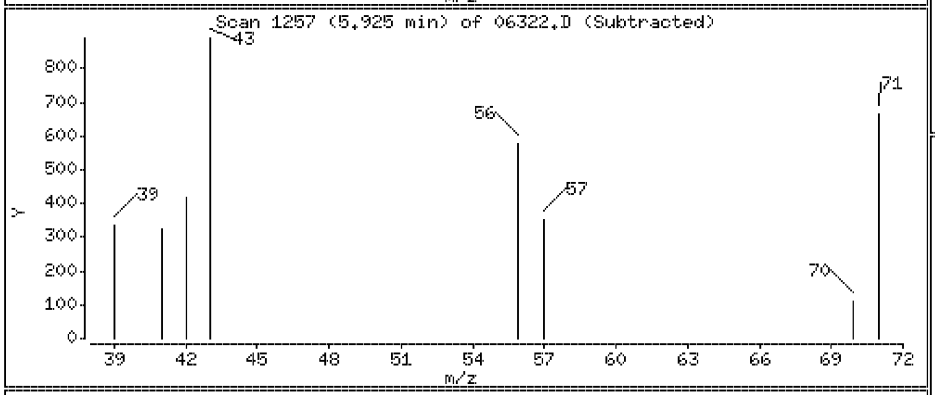
Column diameter: 0.32

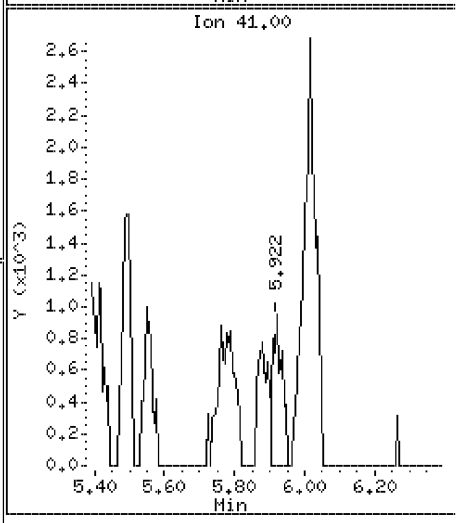
49 Heptane

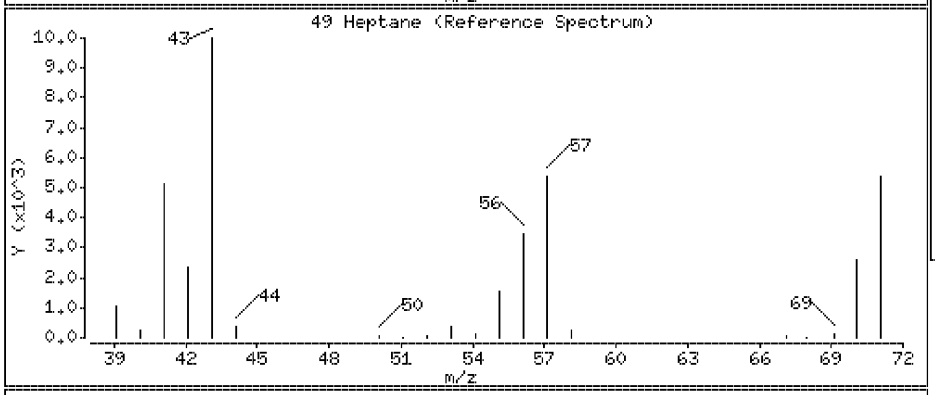
Concentration: 0.273 ppbv

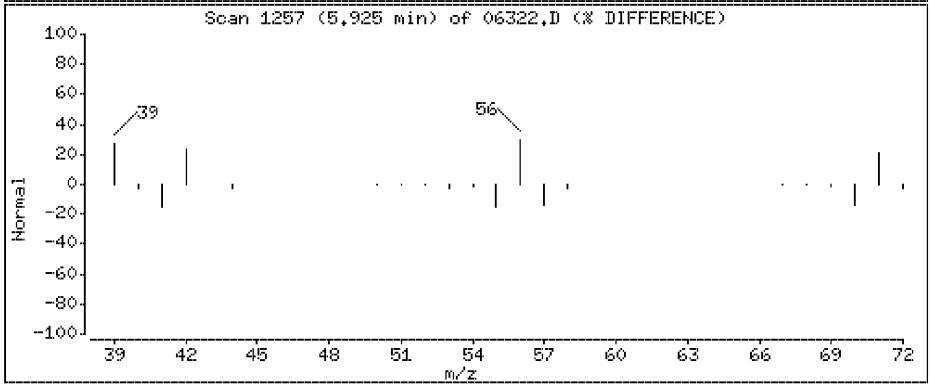












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

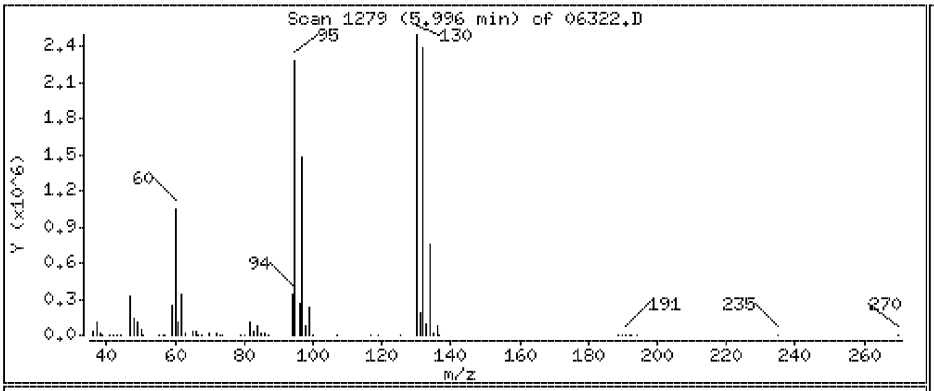
Operator: MJL

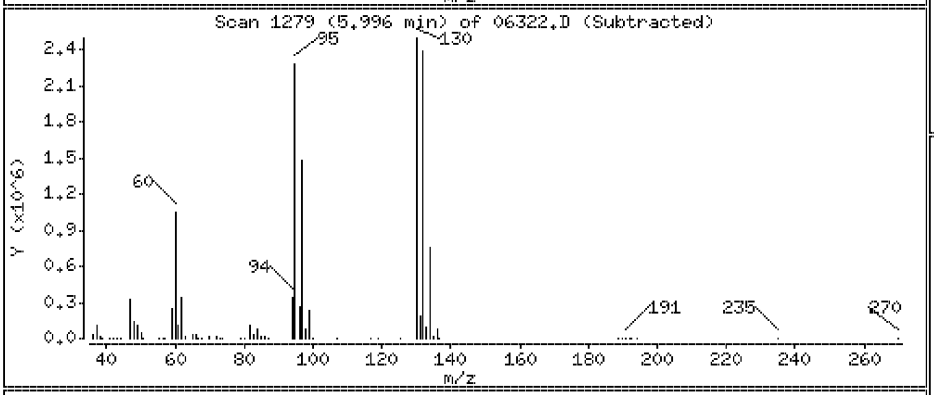
Column phase: J&W DB-5

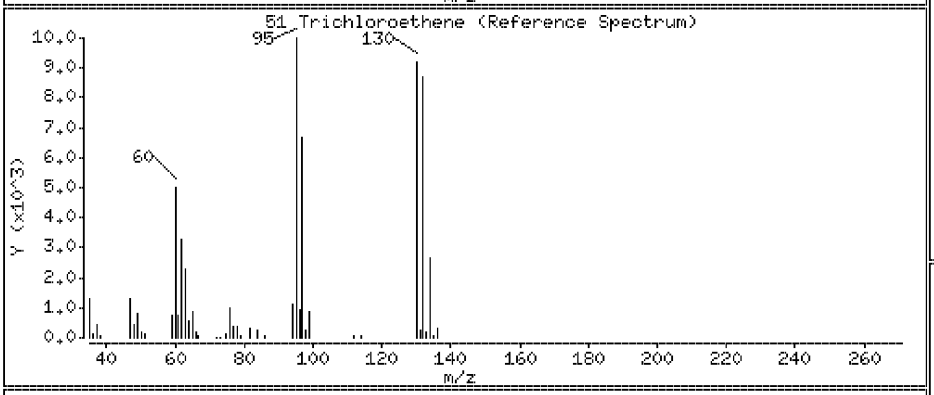
Column diameter: 0.32

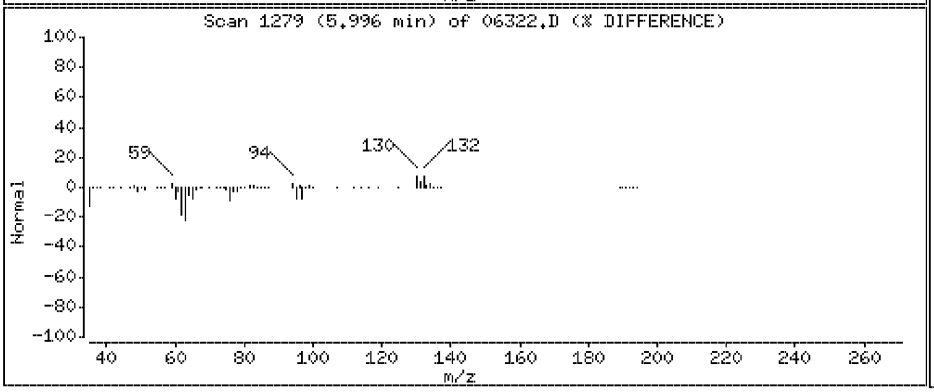
51 Trichloroethene

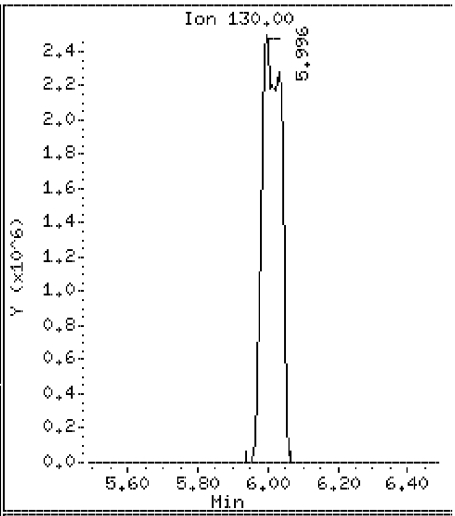
Concentration: 1140 ppbv

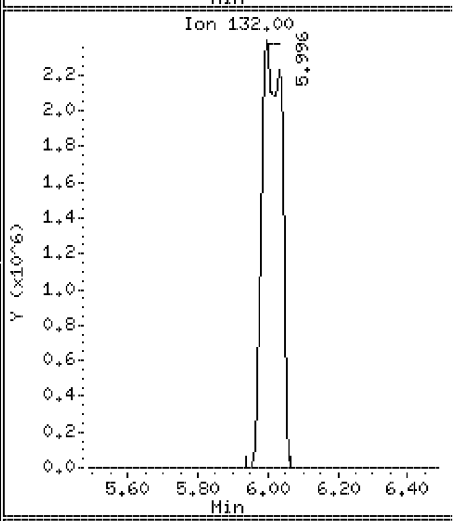


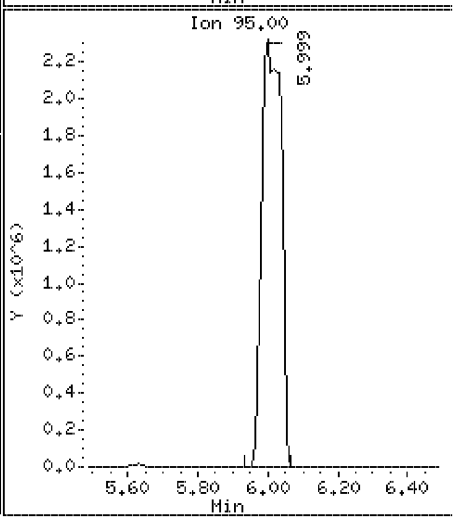












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

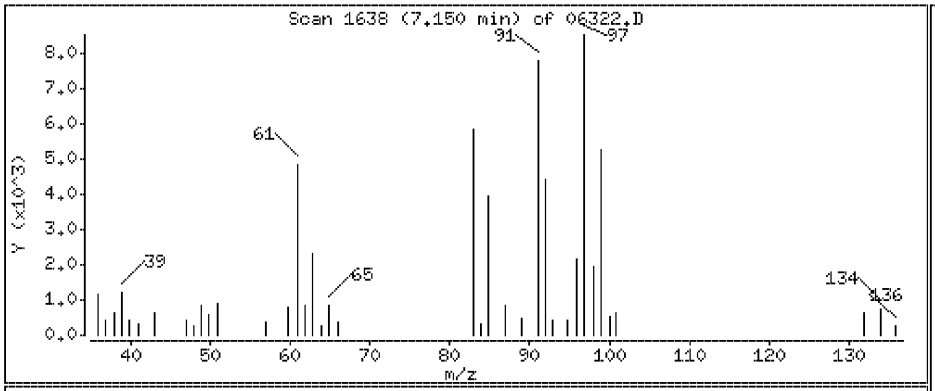
Operator: MJL

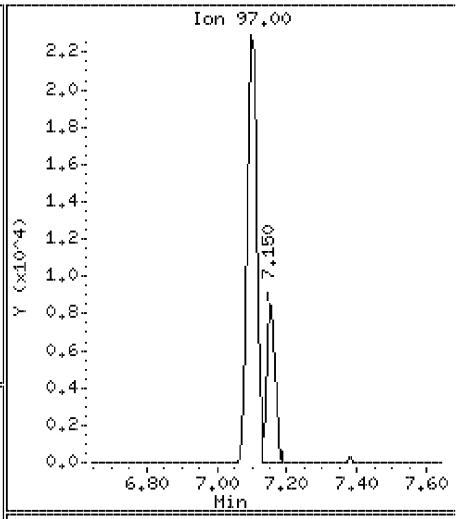
Column phase: J&W DB-5

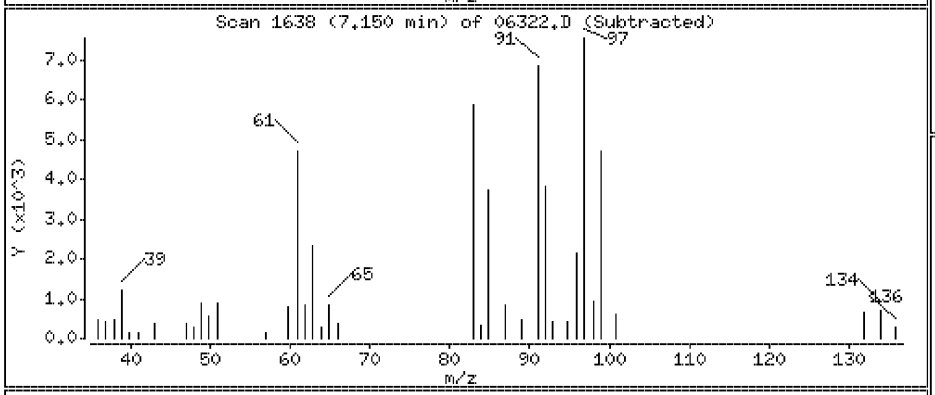
Column diameter: 0.32

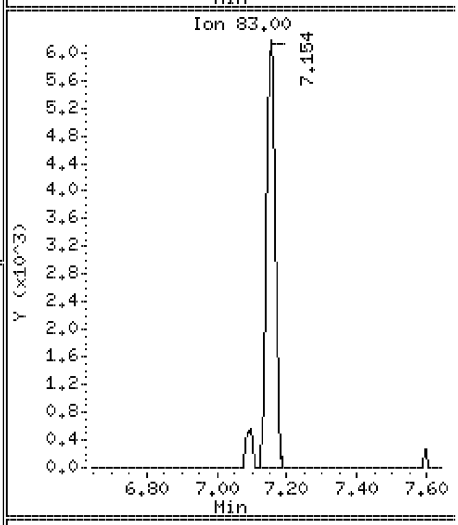
60 1,1,2-Trichloroethane

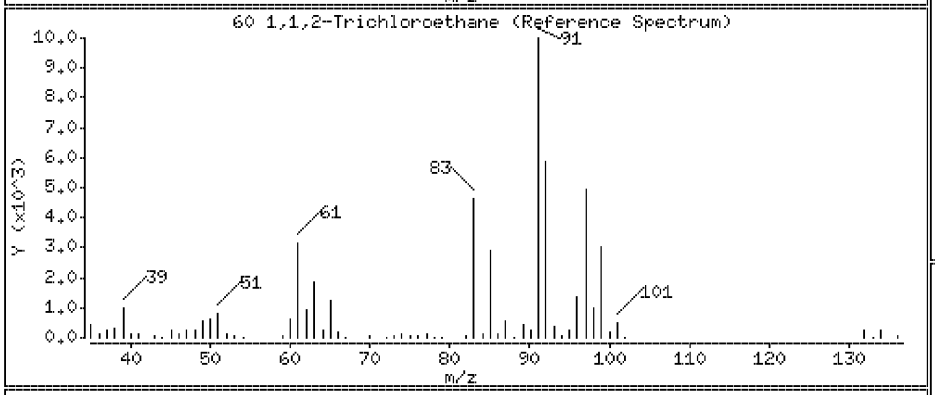
Concentration: 2.10 ppbv

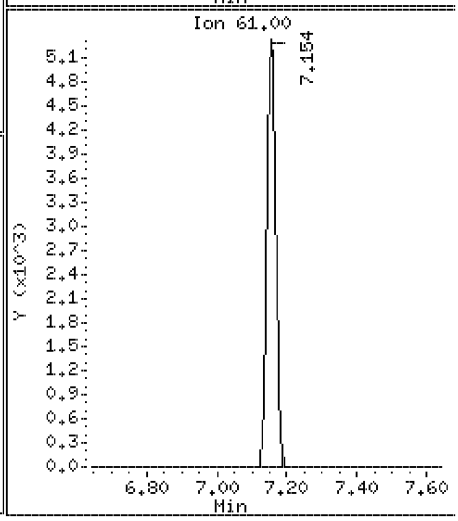


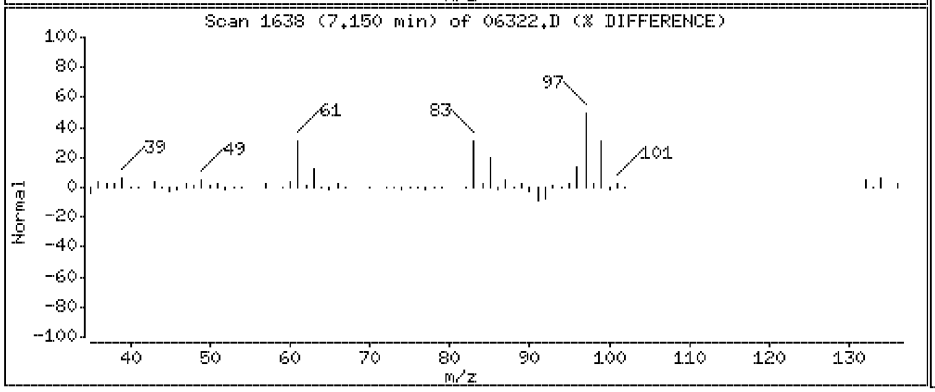












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

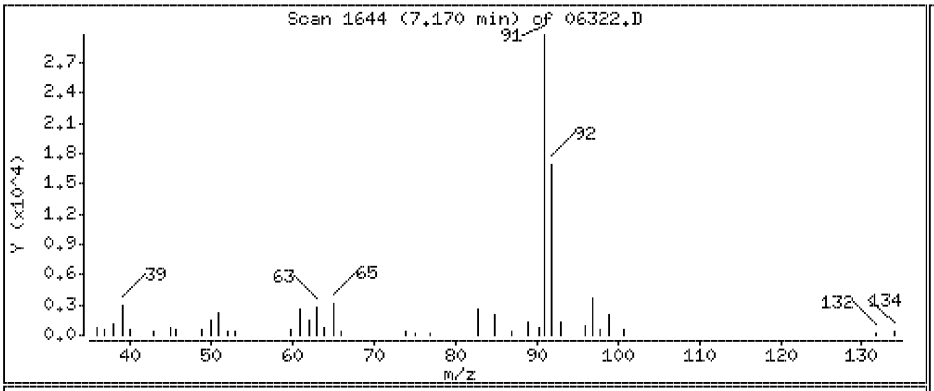
Operator: MJL

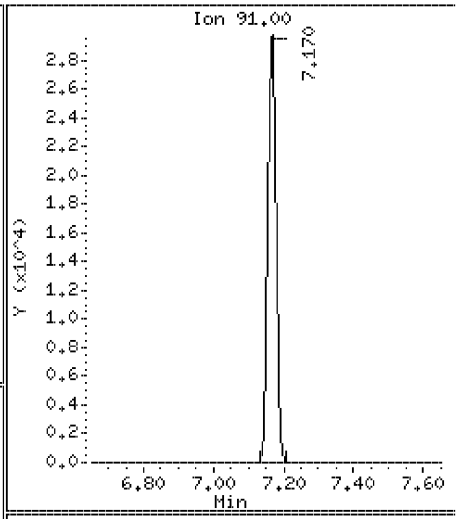
Column phase: J&W DB-5

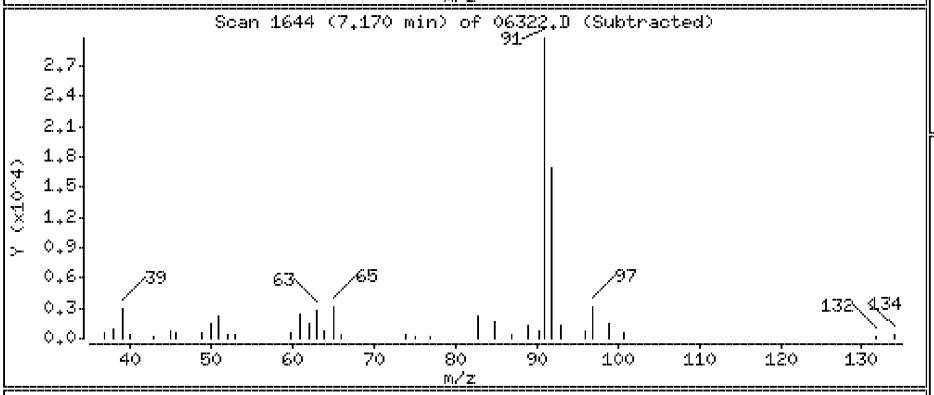
Column diameter: 0.32

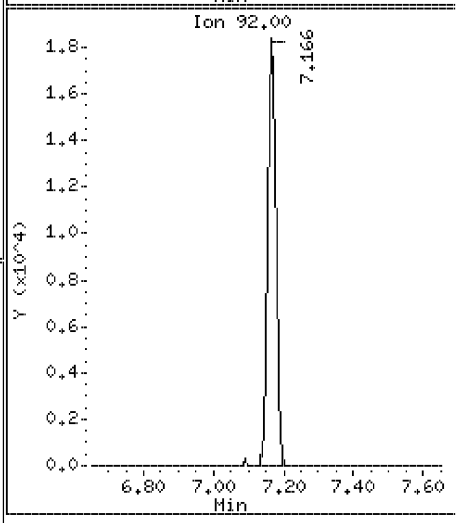
61 Toluene

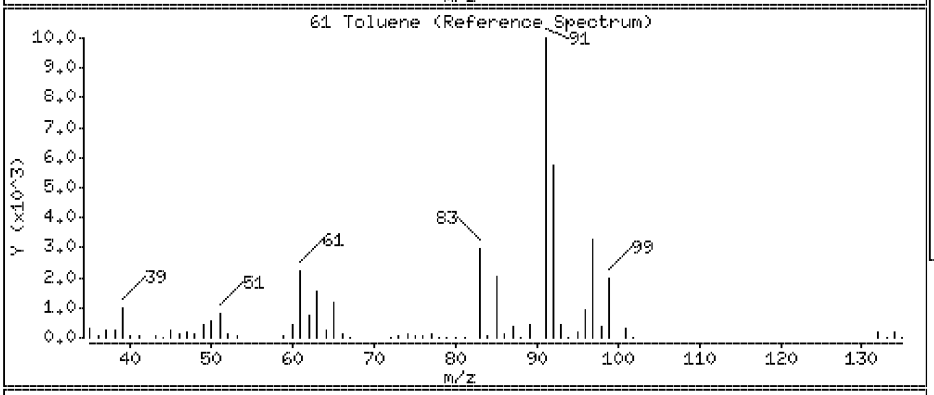
Concentration: 2.41 ppbv

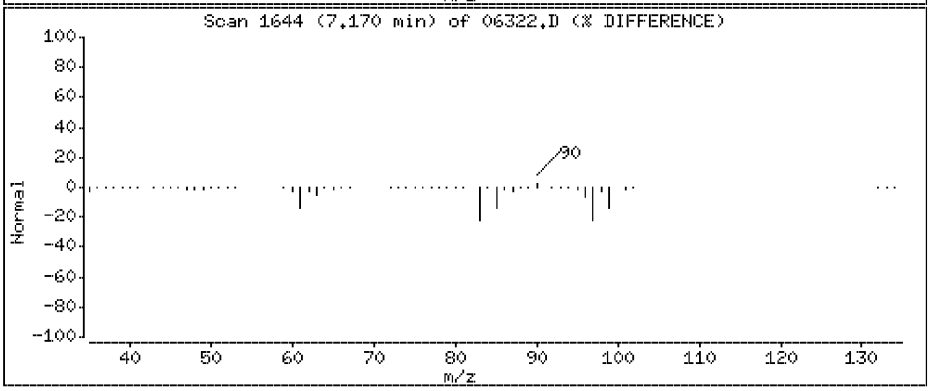












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

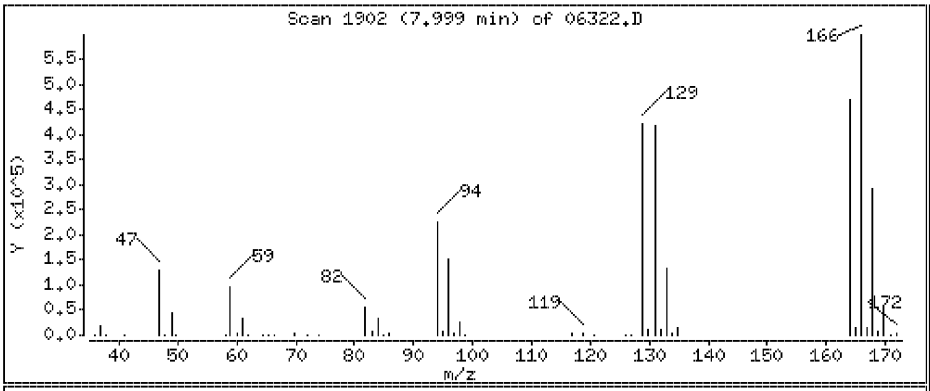
Operator: MJL

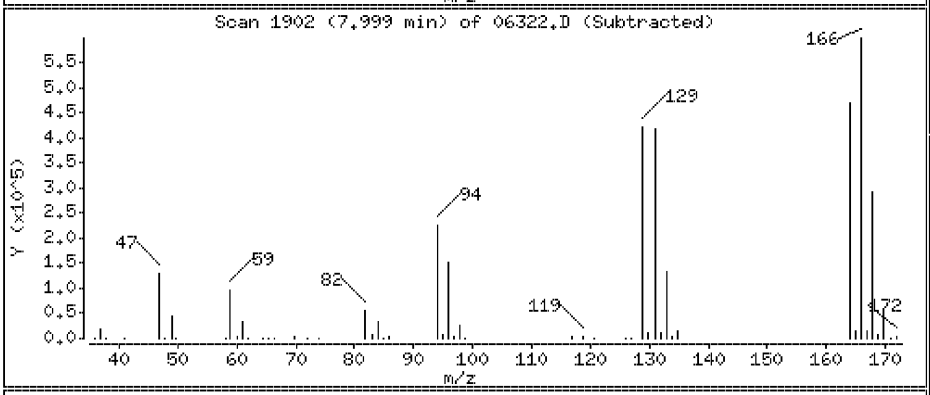
Column phase: J&W DB-5

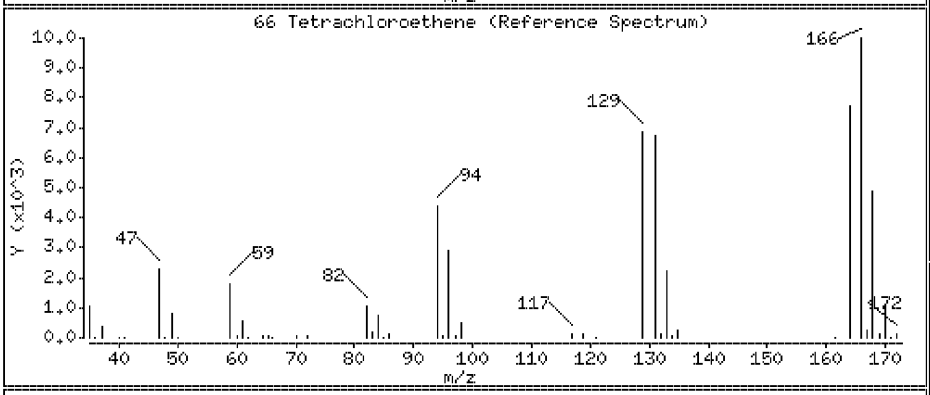
Column diameter: 0.32

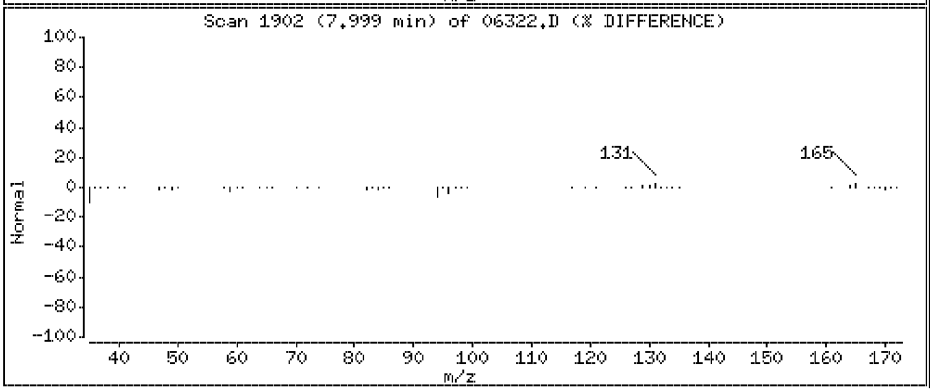
66 Tetrachloroethene

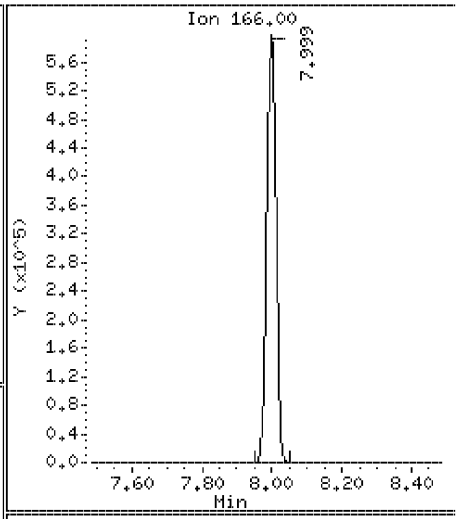
Concentration: 93.7 ppbv

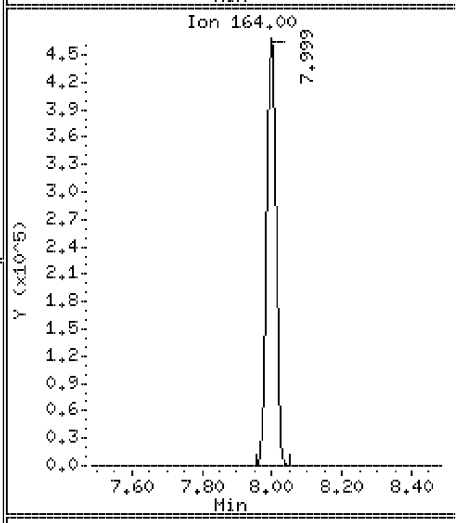


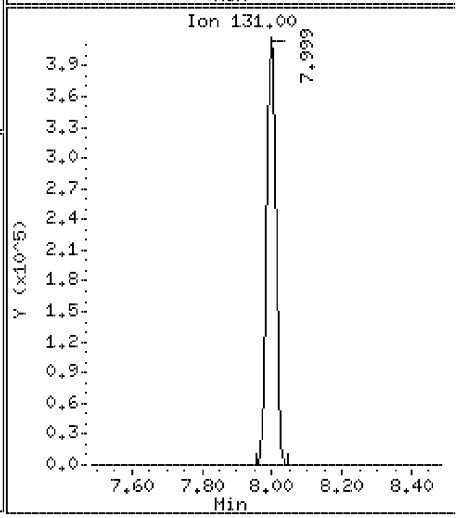












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

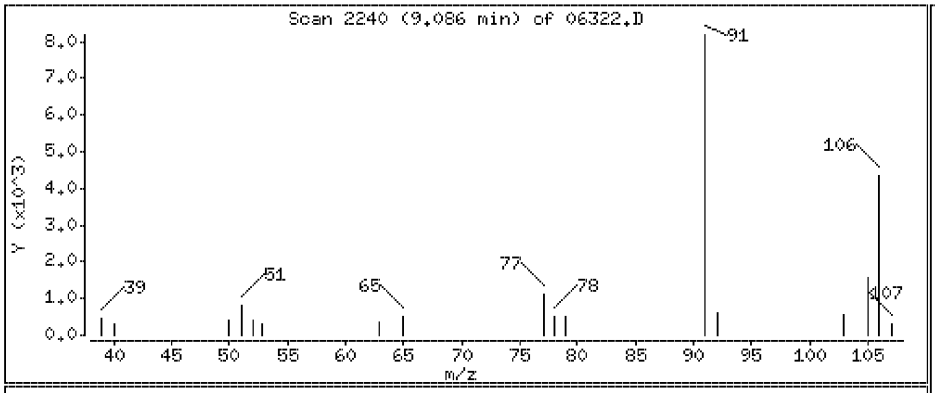
Operator: MJL

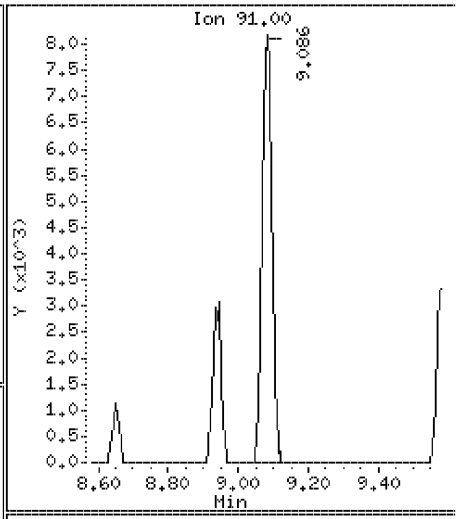
Column phase: J&W DB-5

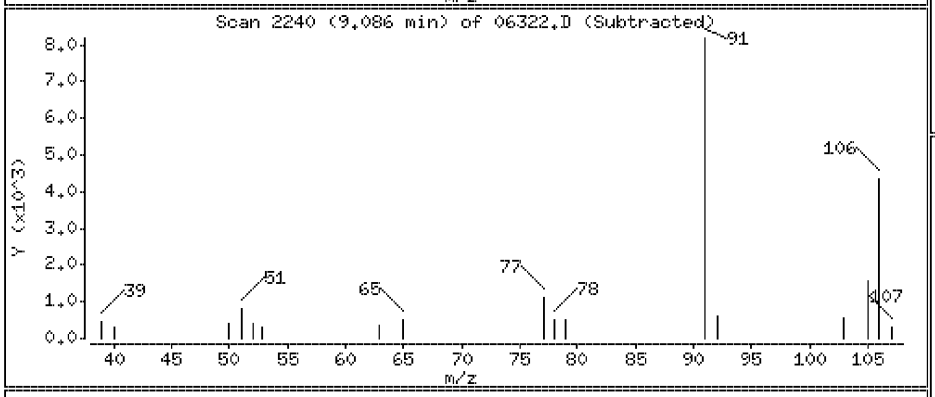
Column diameter: 0.32

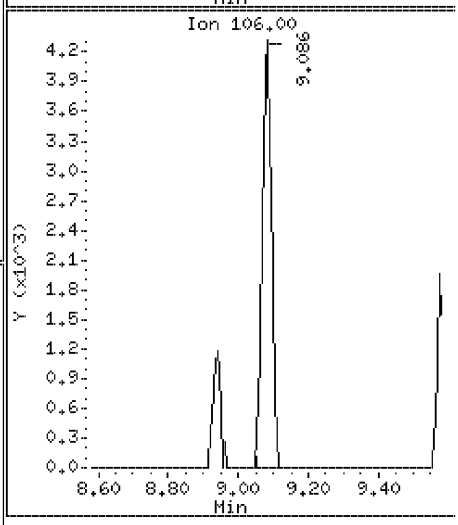
70 m&p-Xylene

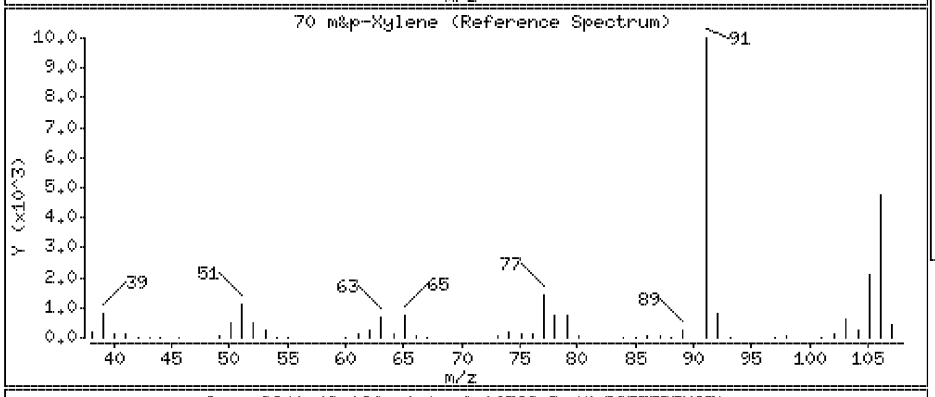
Concentration: 0.807 ppbv

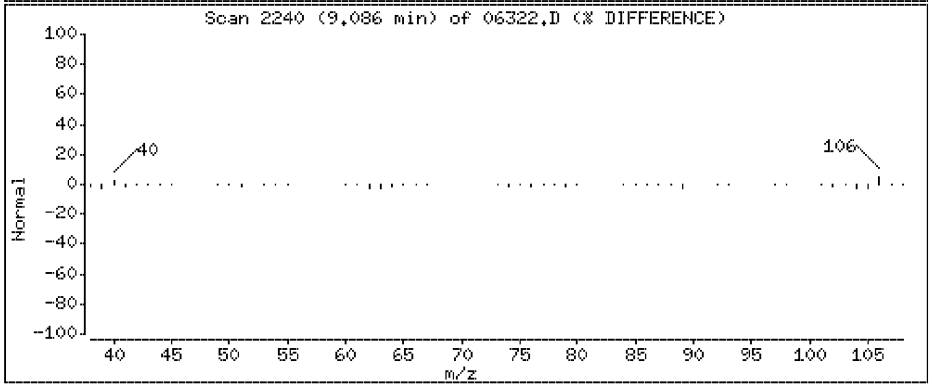












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

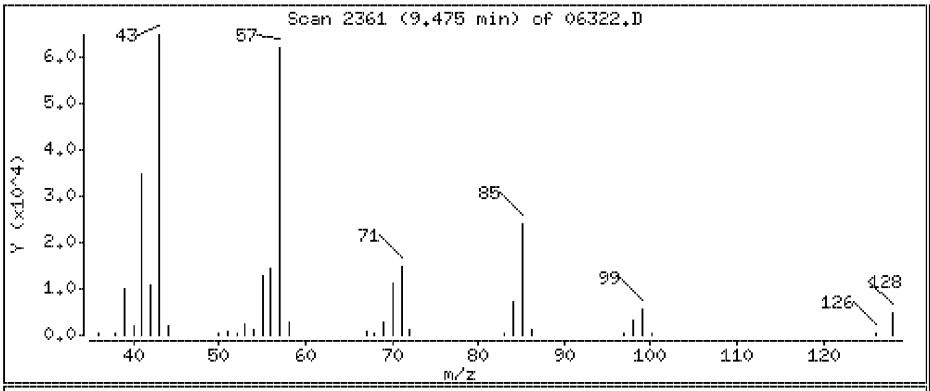
Operator: MJL

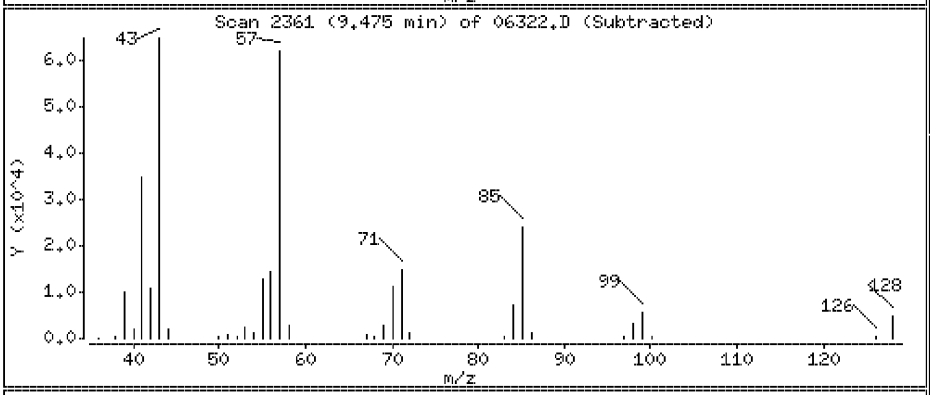
Column phase: J&W DB-5

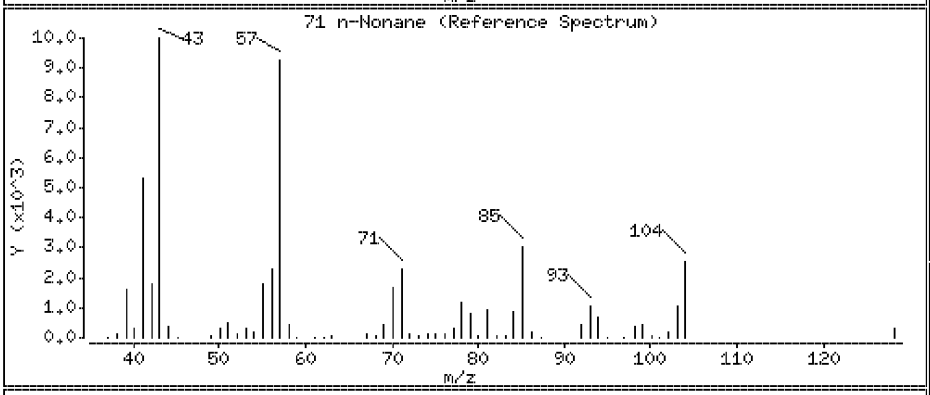
Column diameter: 0.32

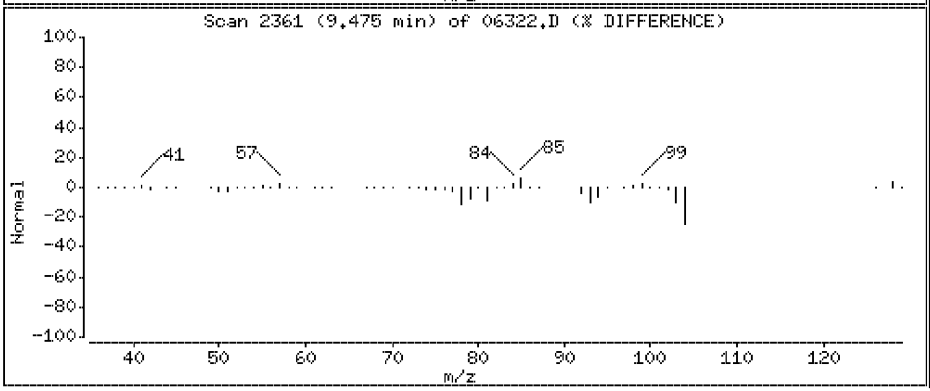
71 n-Nonane

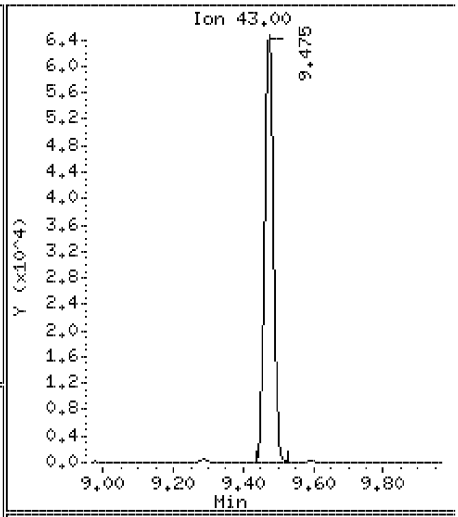
Concentration: 11.0 ppbv

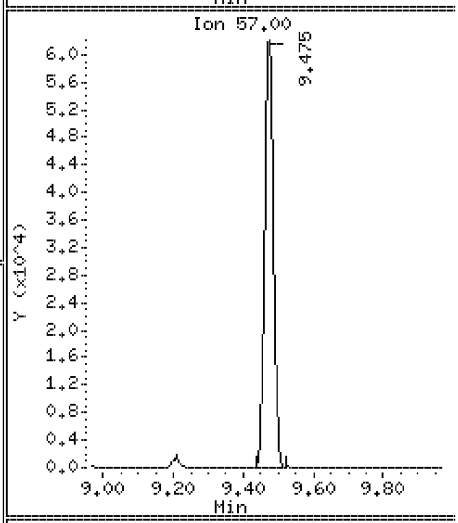


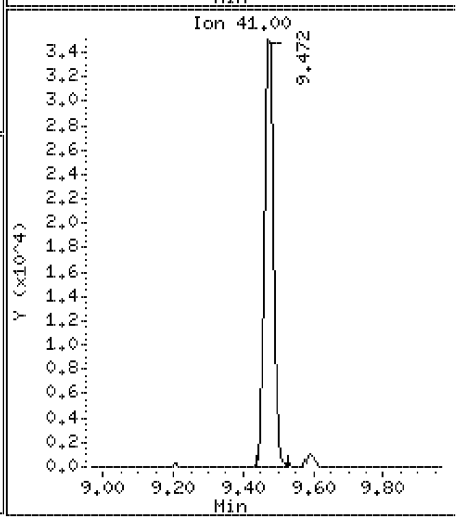












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

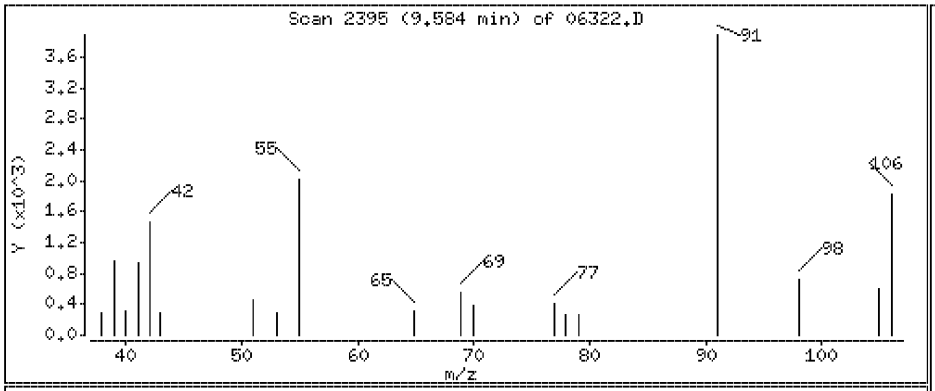
Operator: MJL

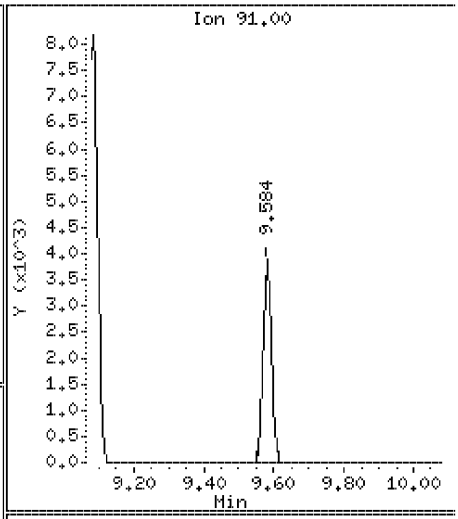
Column phase: J&W DB-5

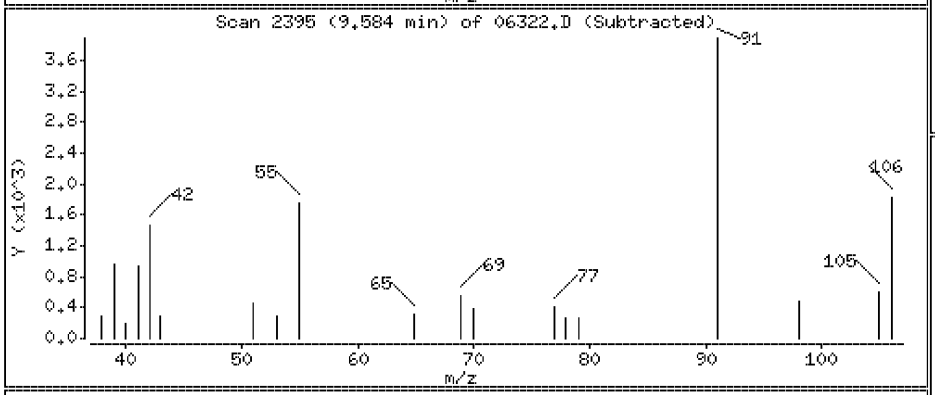
Column diameter: 0.32

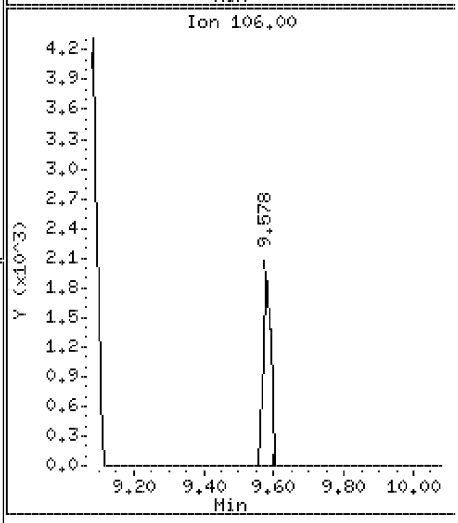
74 o-Xylene

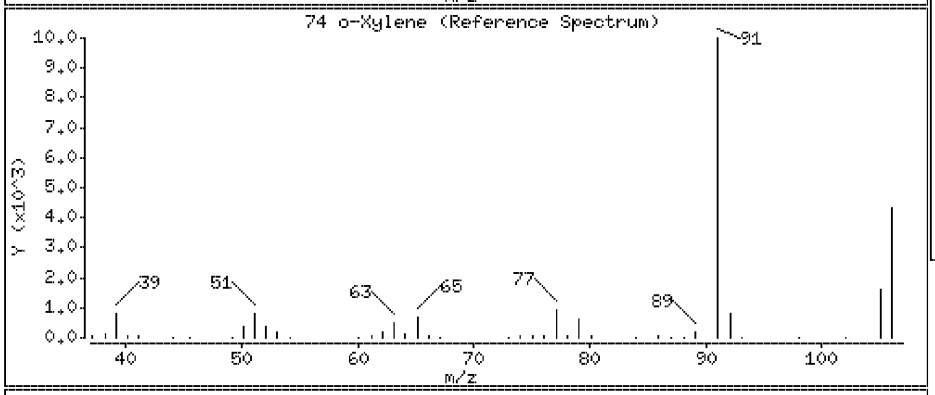
Concentration: 0.313 ppbv

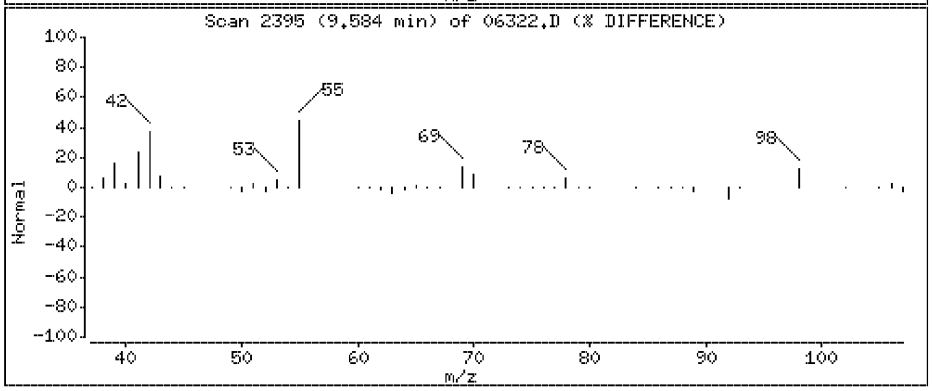












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

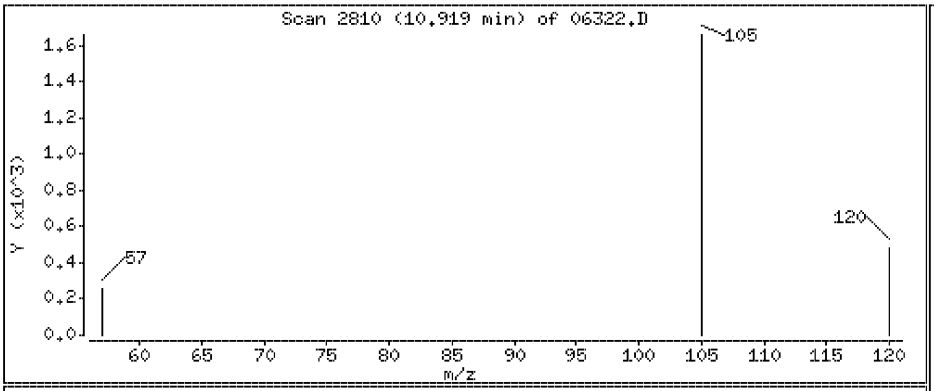
Operator: MJL

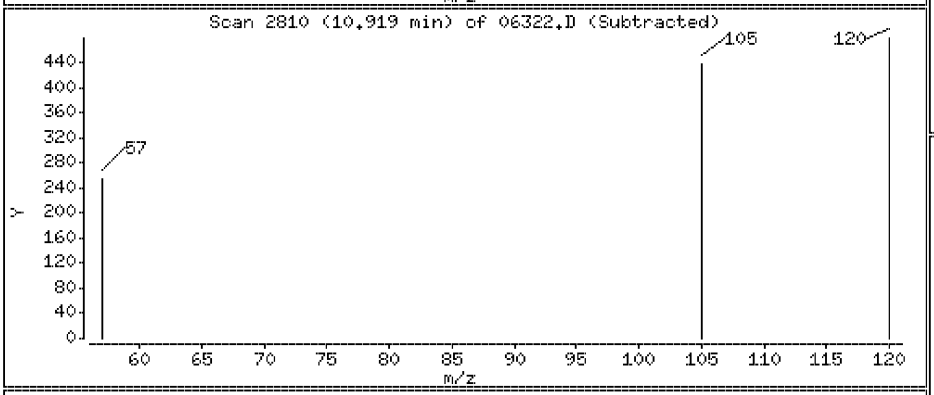
Column phase: J&W DB-5

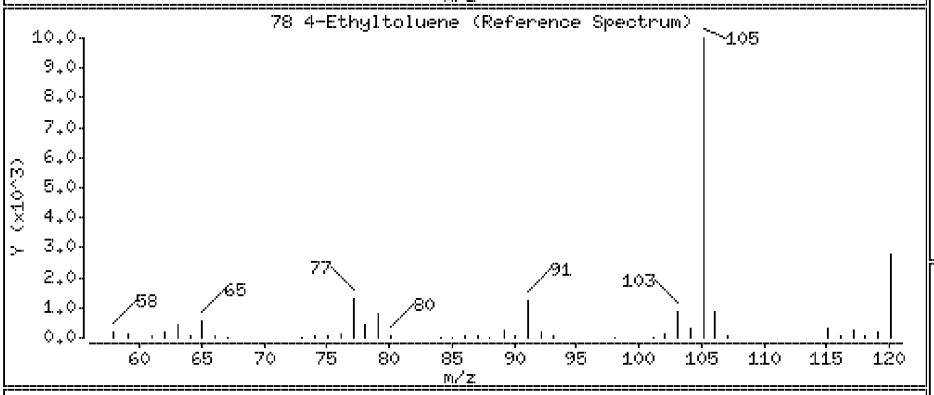
Column diameter: 0.32

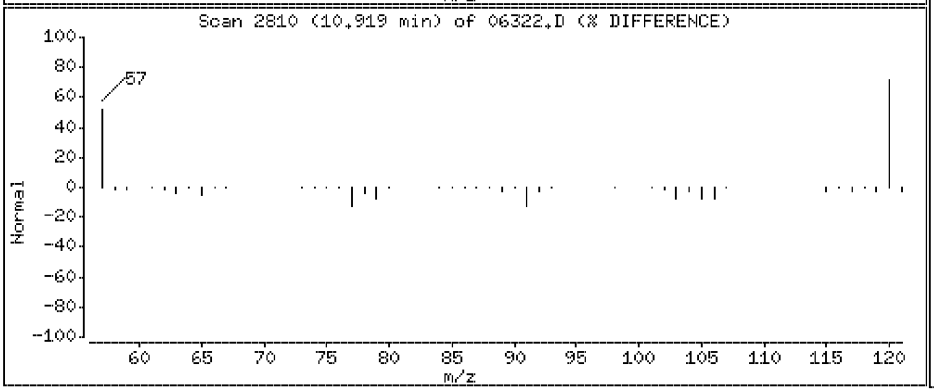
78 4-Ethyltoluene

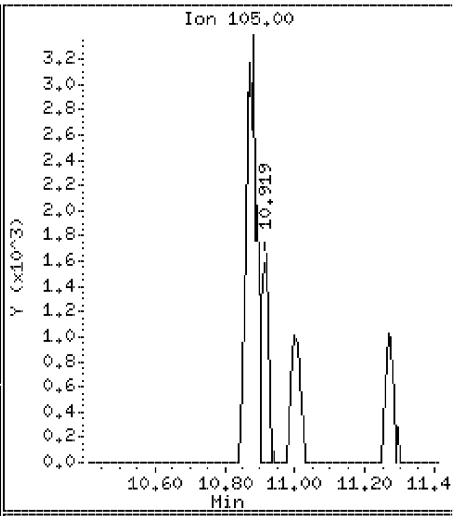
Concentration: 0.320 ppbv

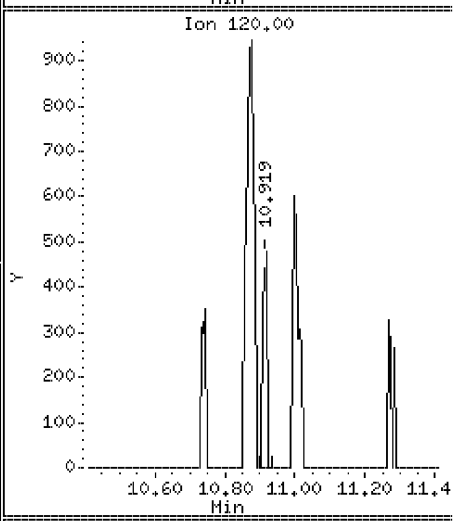


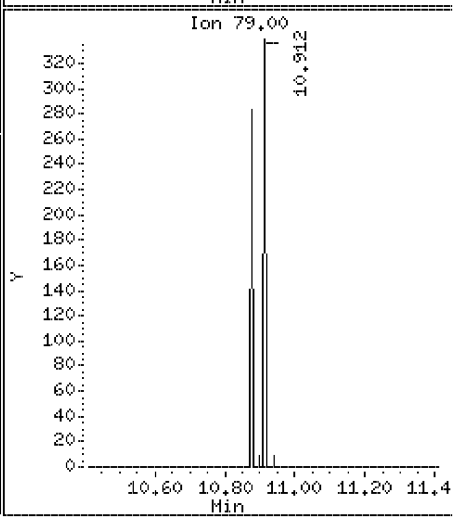












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

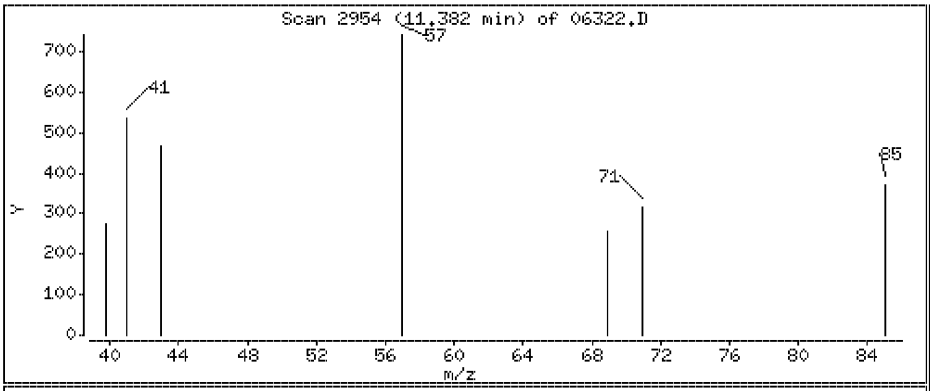
Operator: MJL

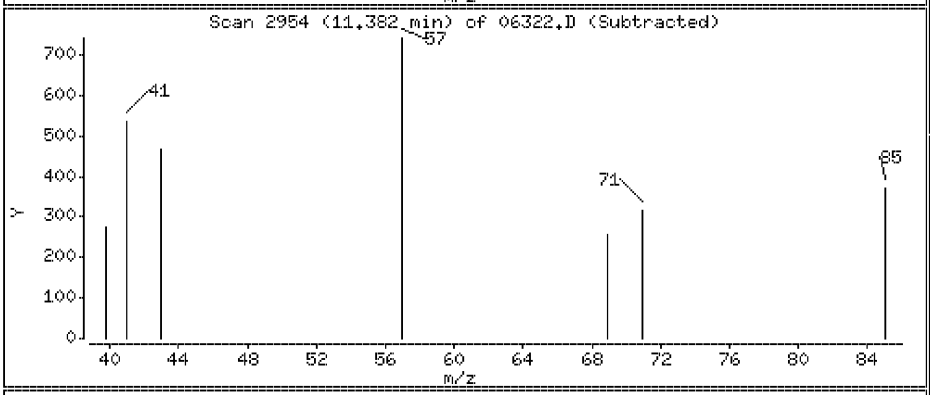
Column phase: J&W DB-5

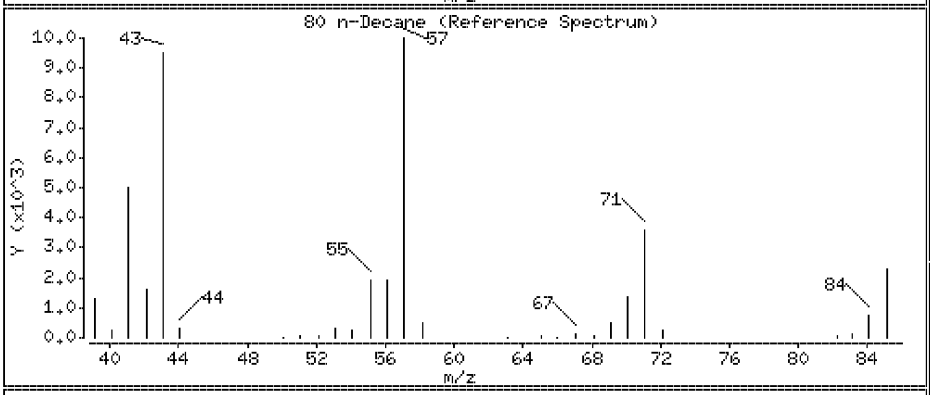
Column diameter: 0.32

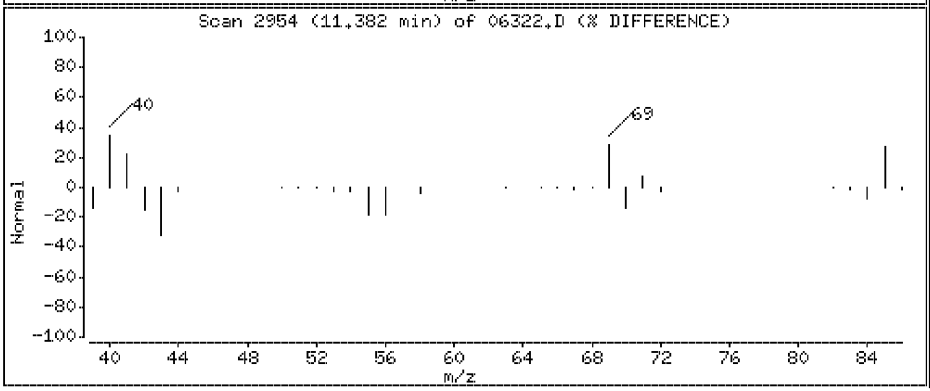
80 n-Decane

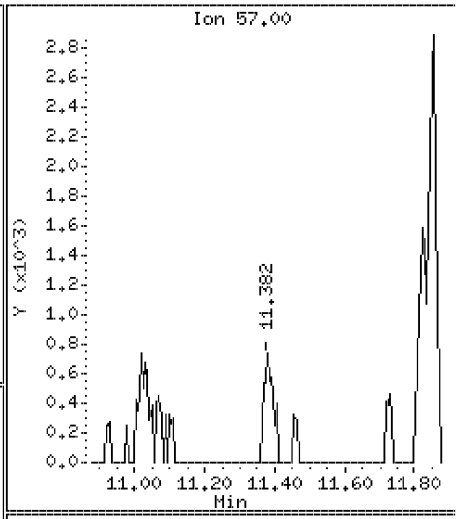
Concentration: 0.671 ppbv

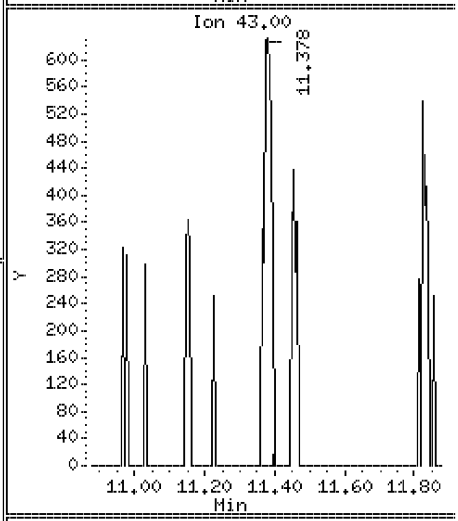


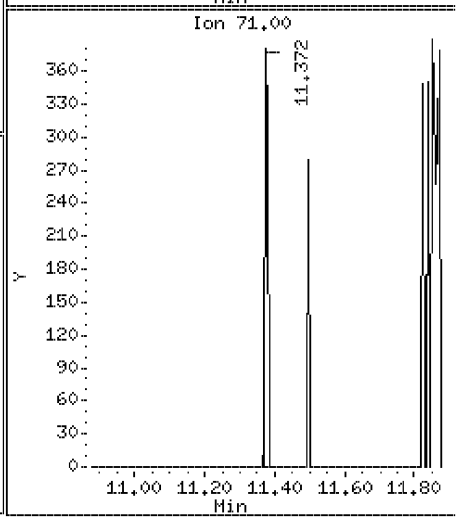












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

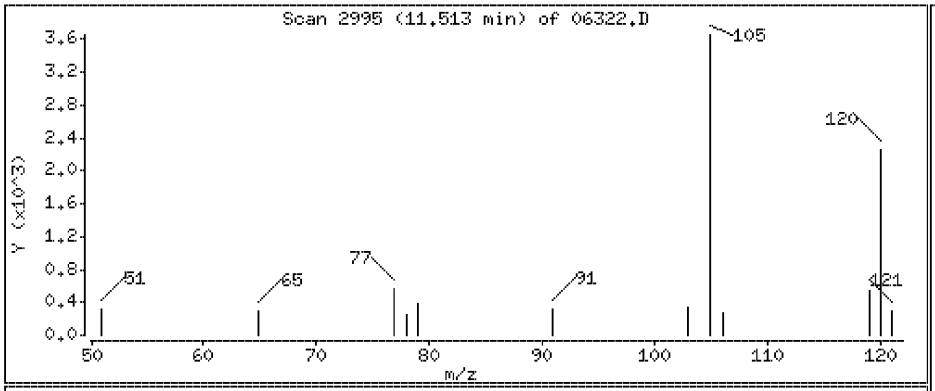
Operator: MJL

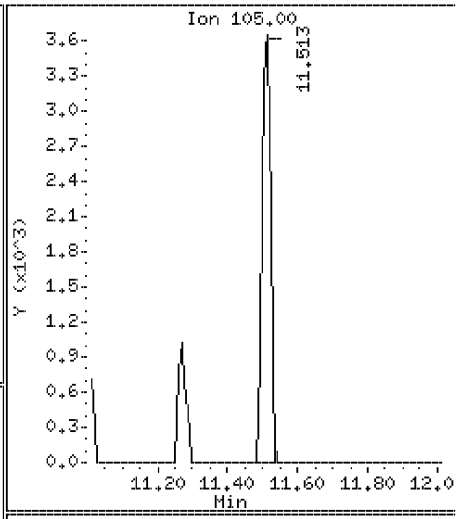
Column phase: J&W DB-5

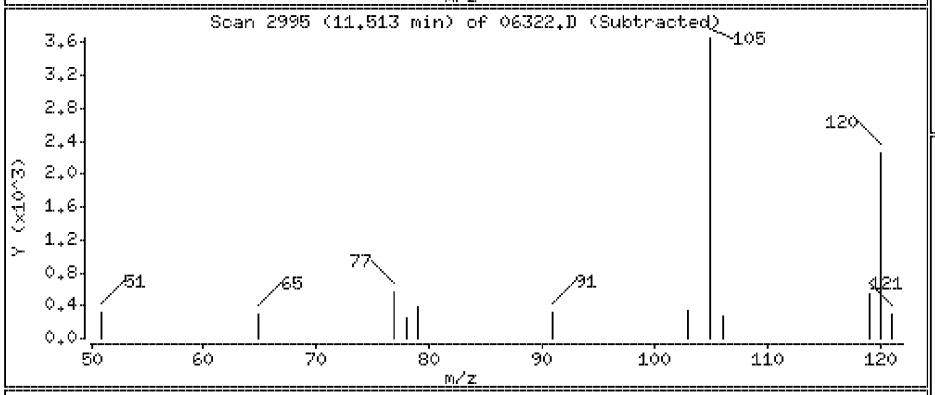
Column diameter: 0.32

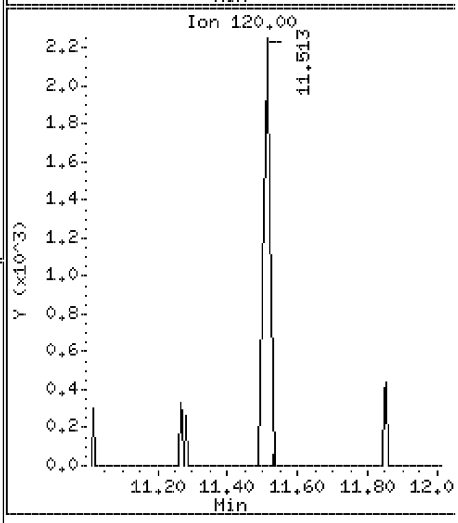
82 1,2,4-Trimethylbenzene

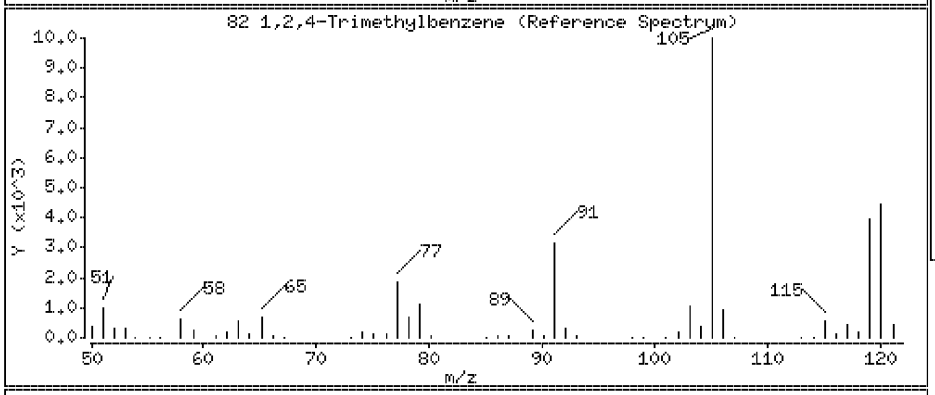
Concentration: 0.309 ppbv

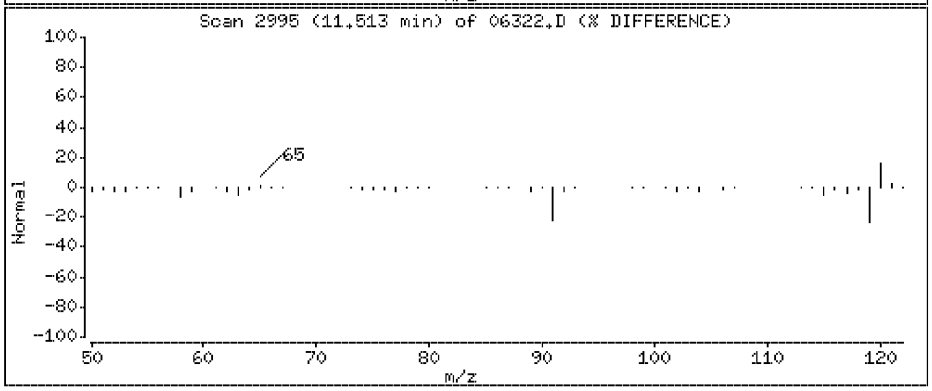












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06322.D

Date : 04-MAR-2017 17:34

Client ID:

Instrument: 10airB.i

Sample Info:

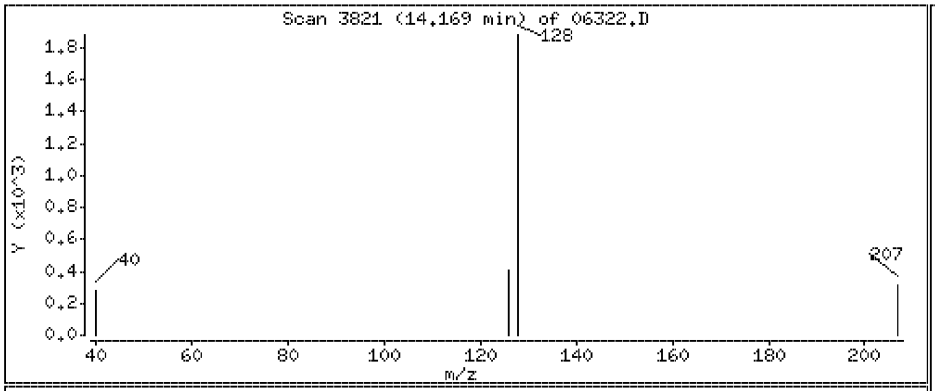
Operator: MJL

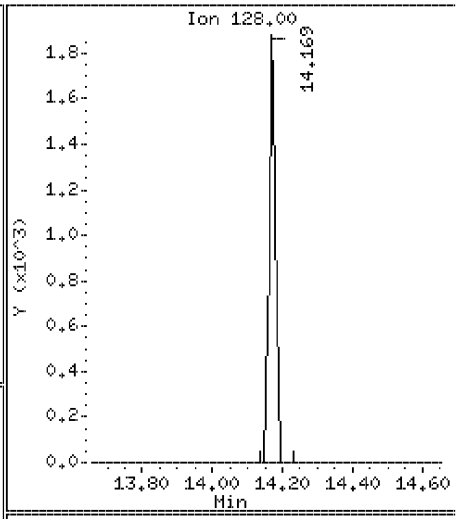
Column phase: J&W DB-5

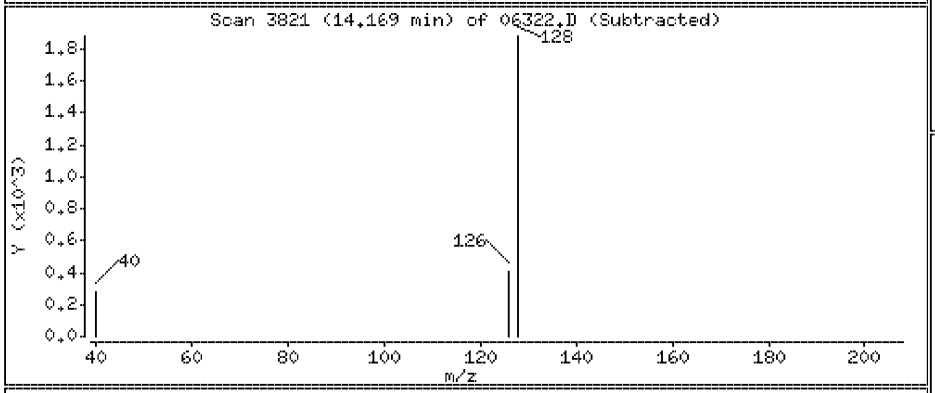
Column diameter: 0.32

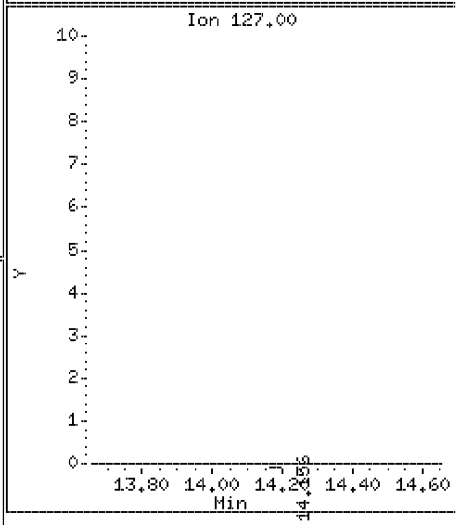
94 Naphthalene

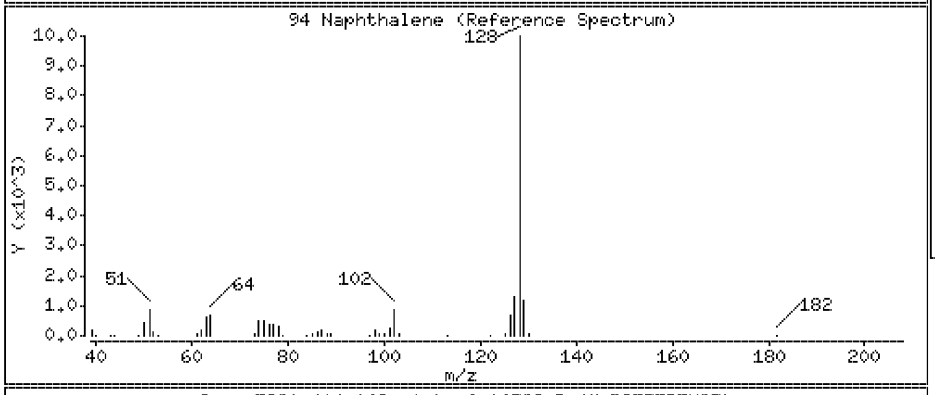
Concentration: 0.996 ppbv

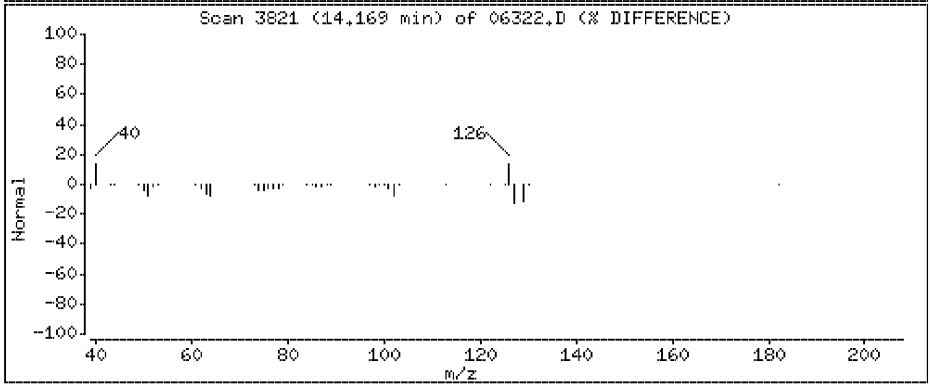






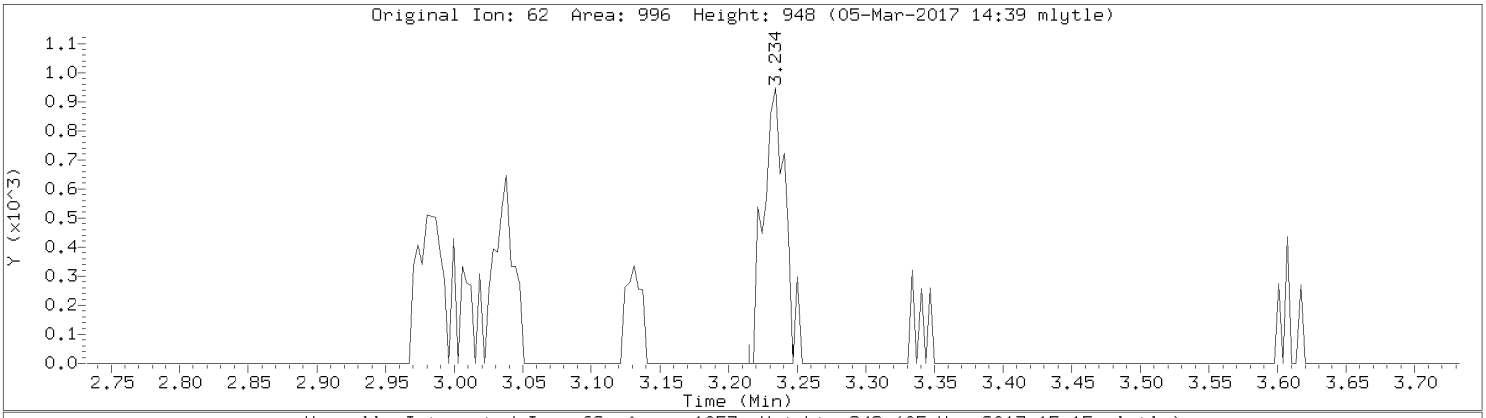


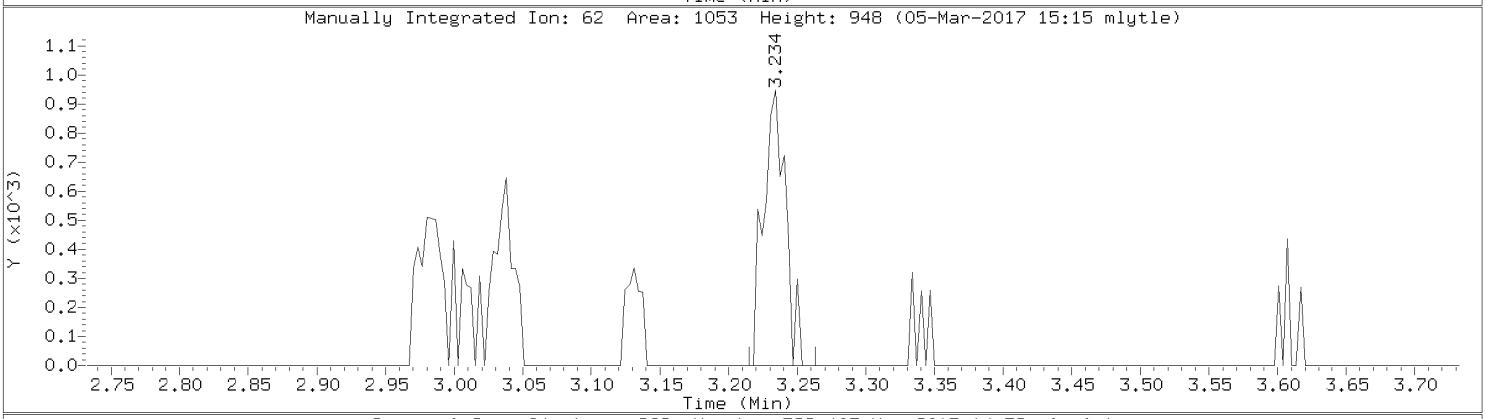


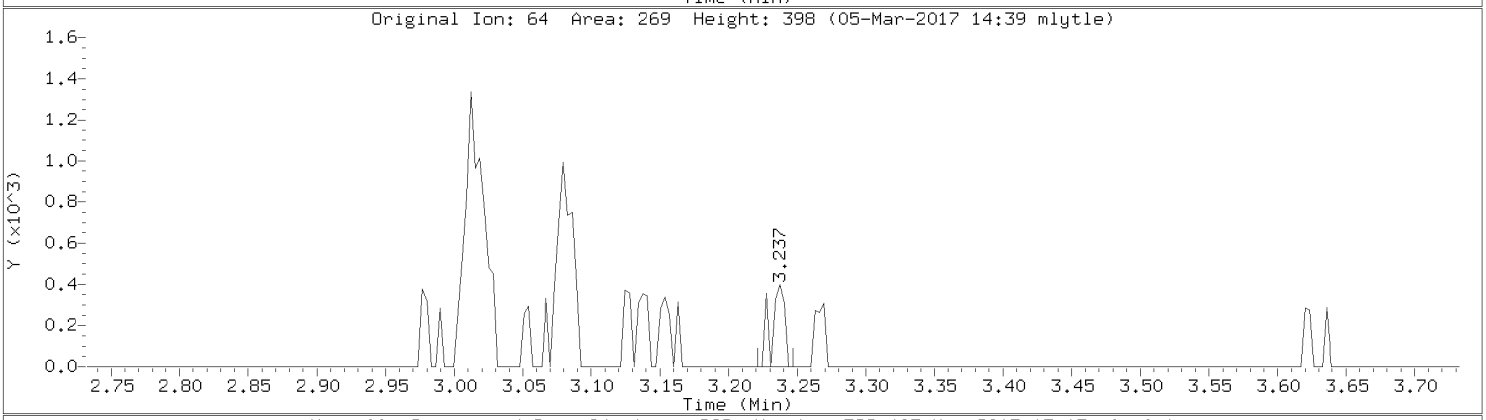


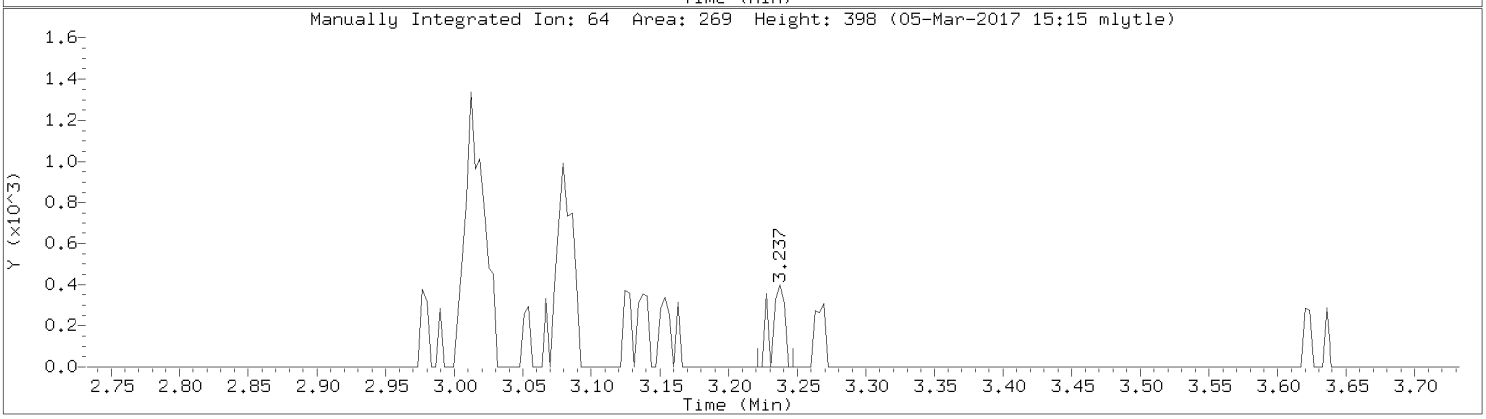
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014

Compound: Vinyl chloride
CAS Number: 75-01-4



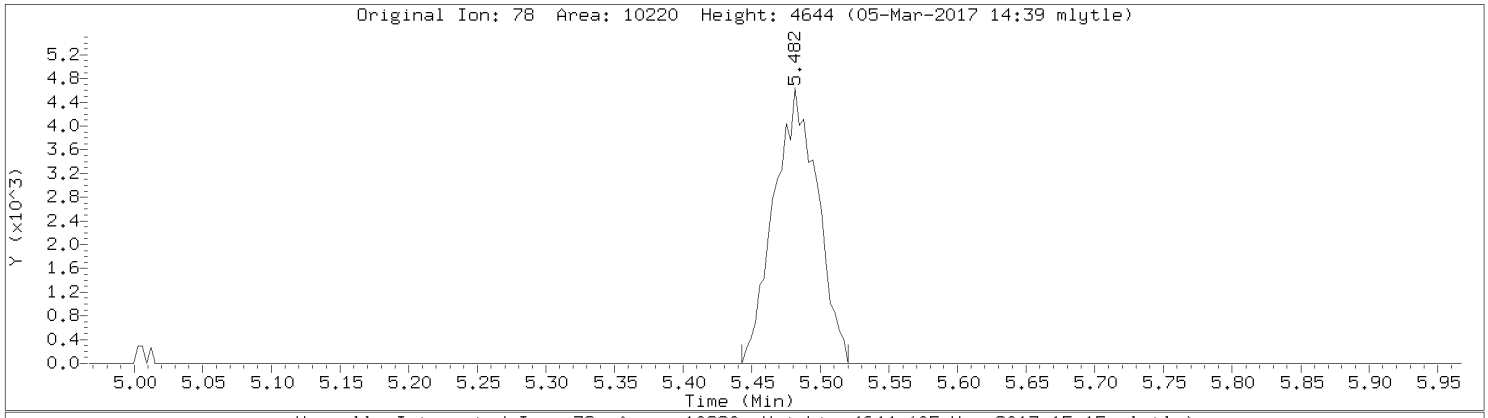


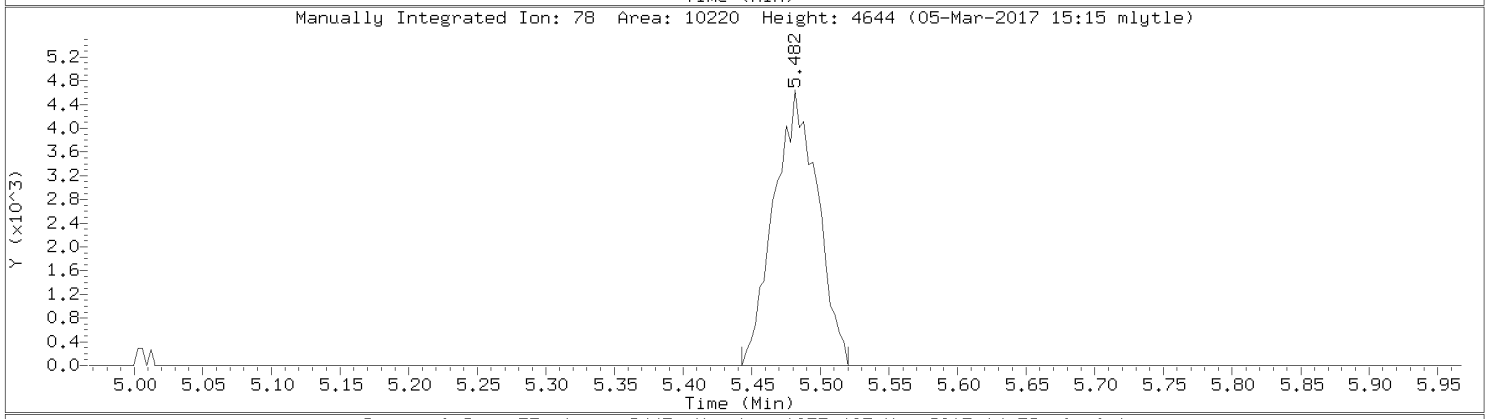


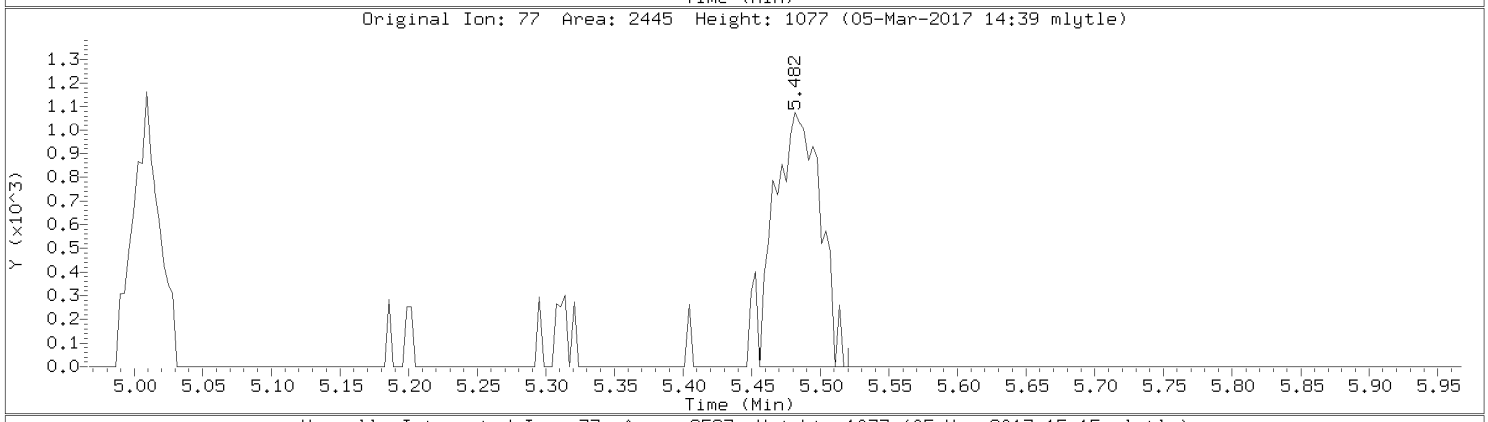


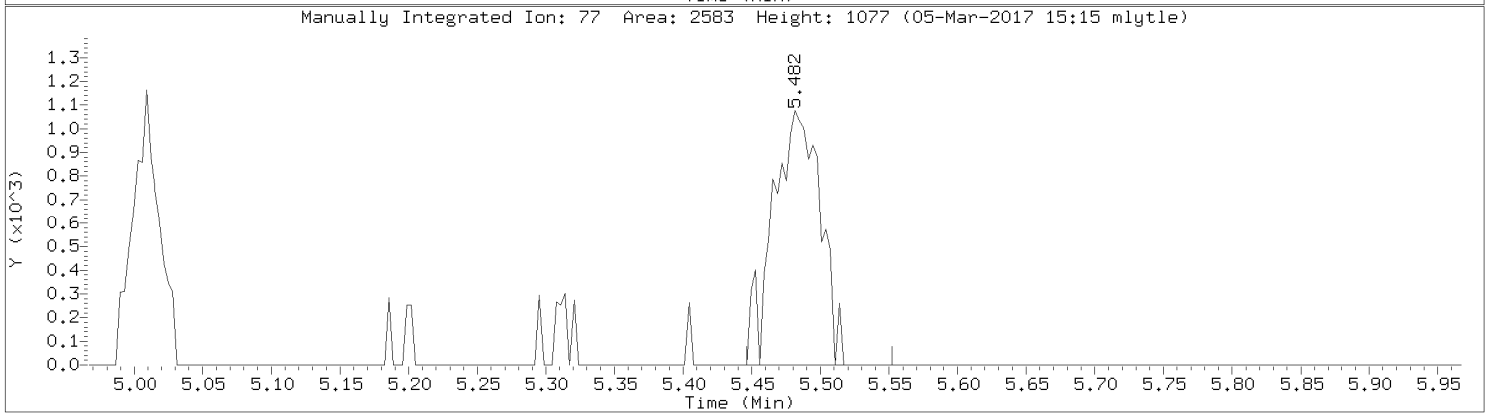
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014

Compound: Benzene
CAS Number: 71-43-2

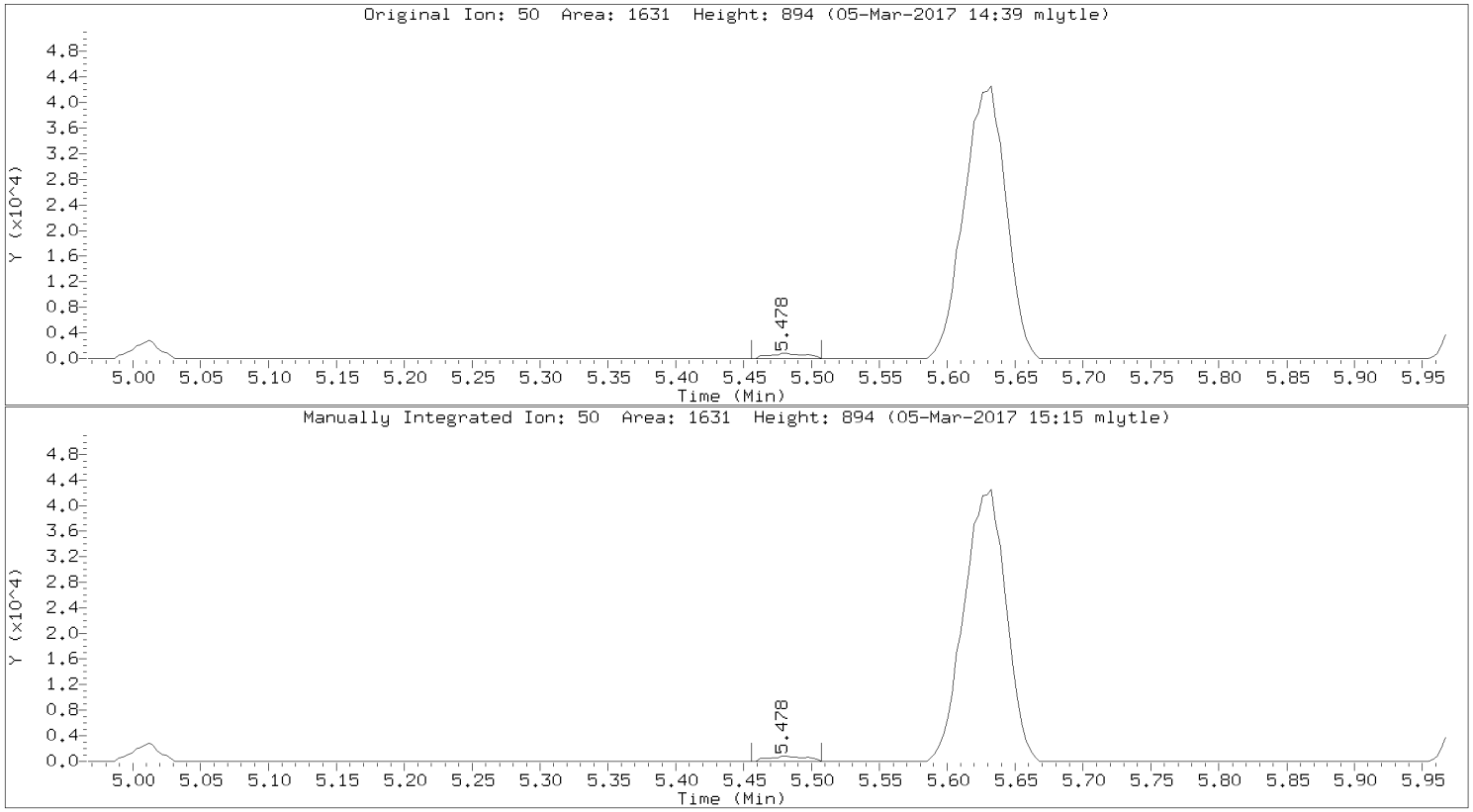






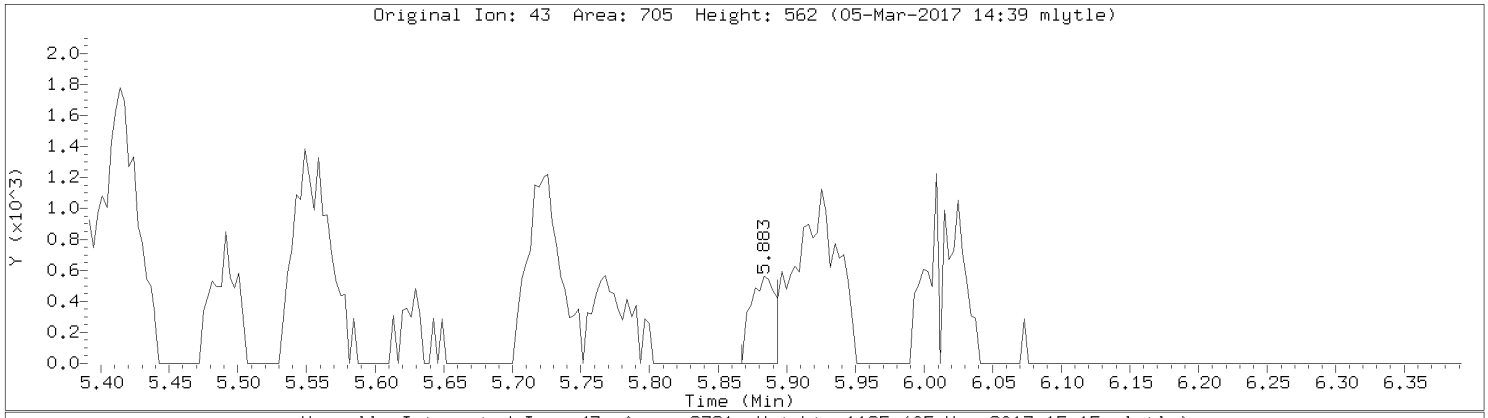


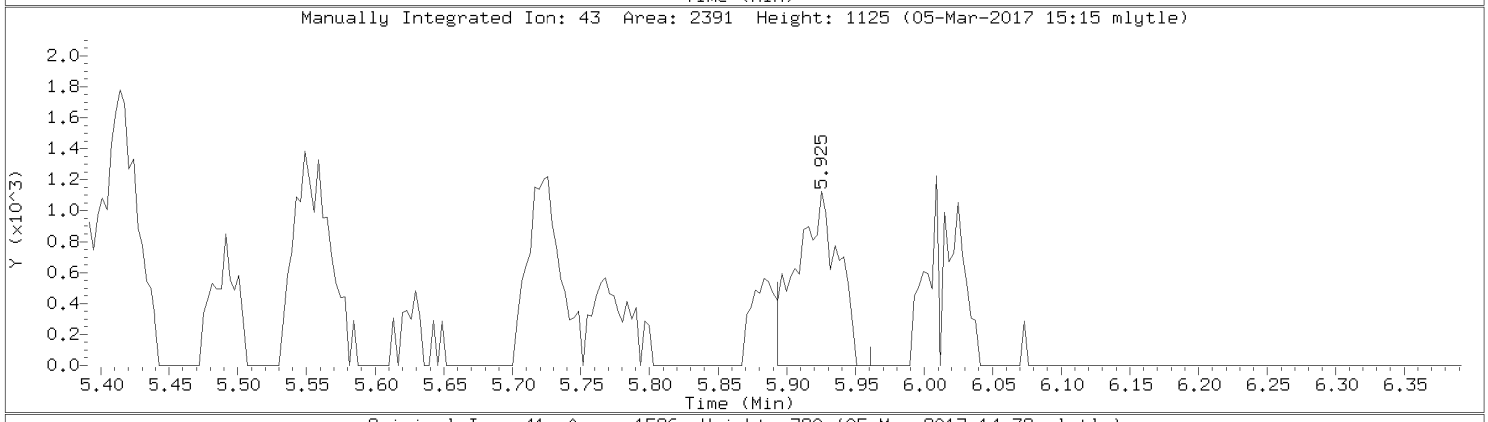
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014

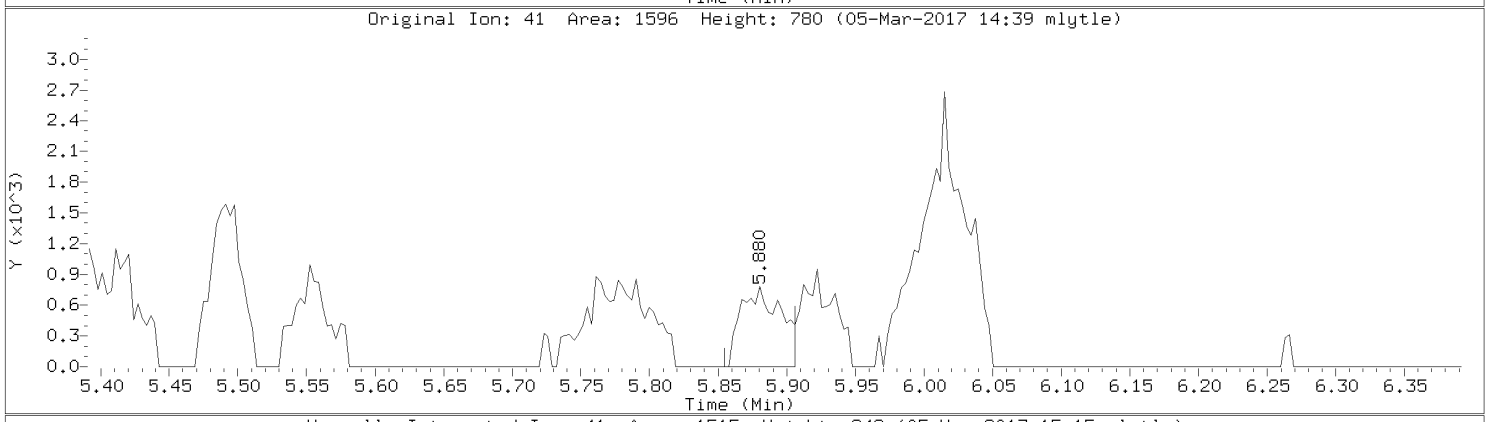


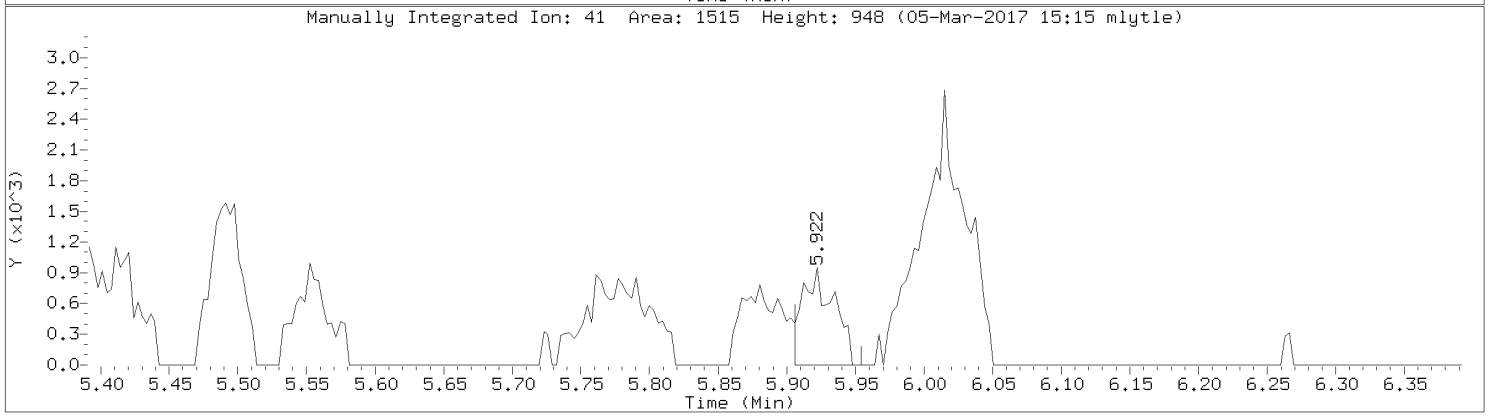
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014

Compound: Heptane
CAS Number: 142-82-5



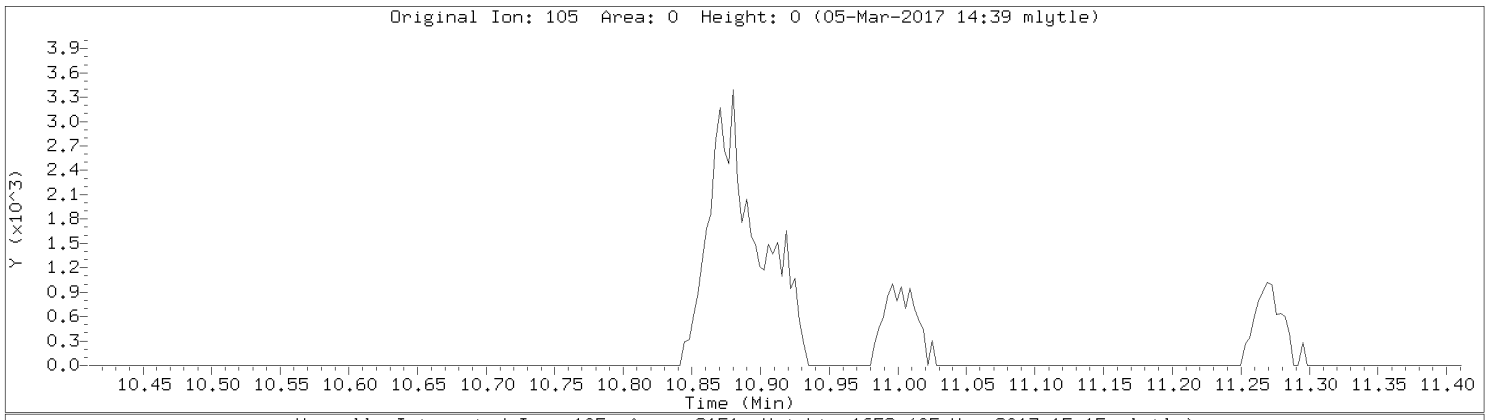


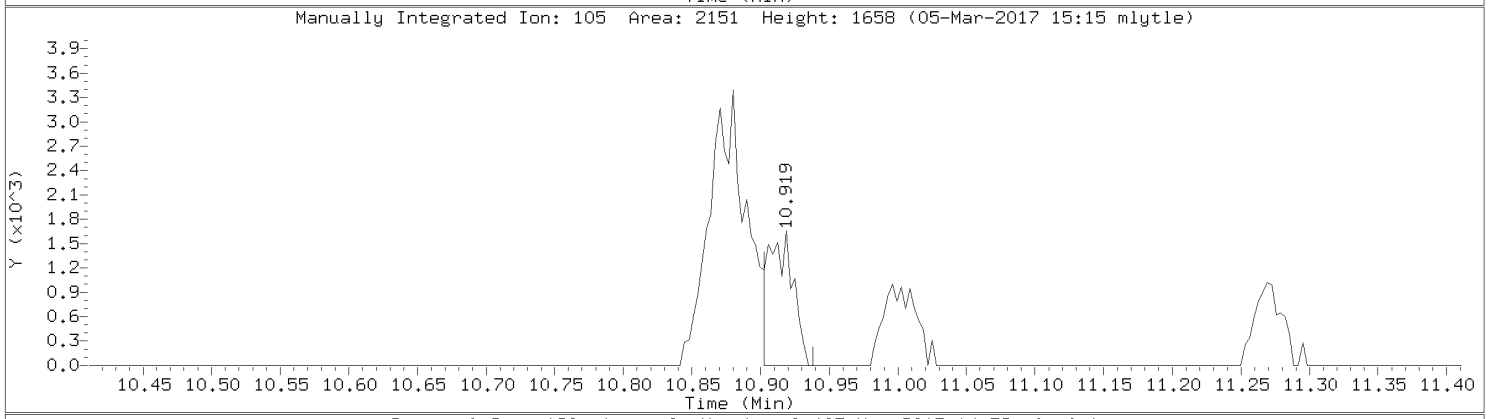


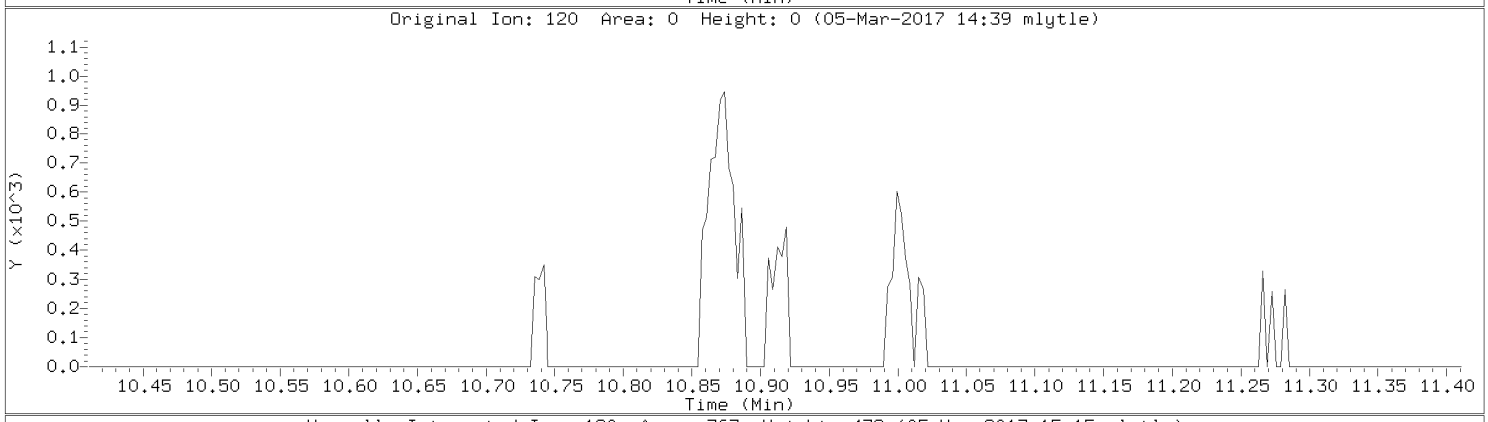


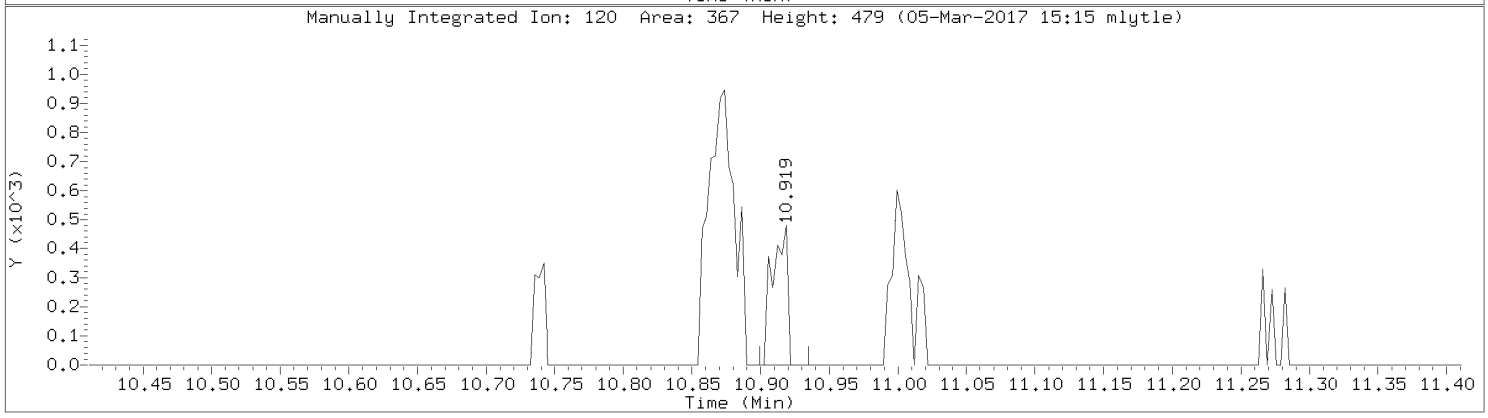
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

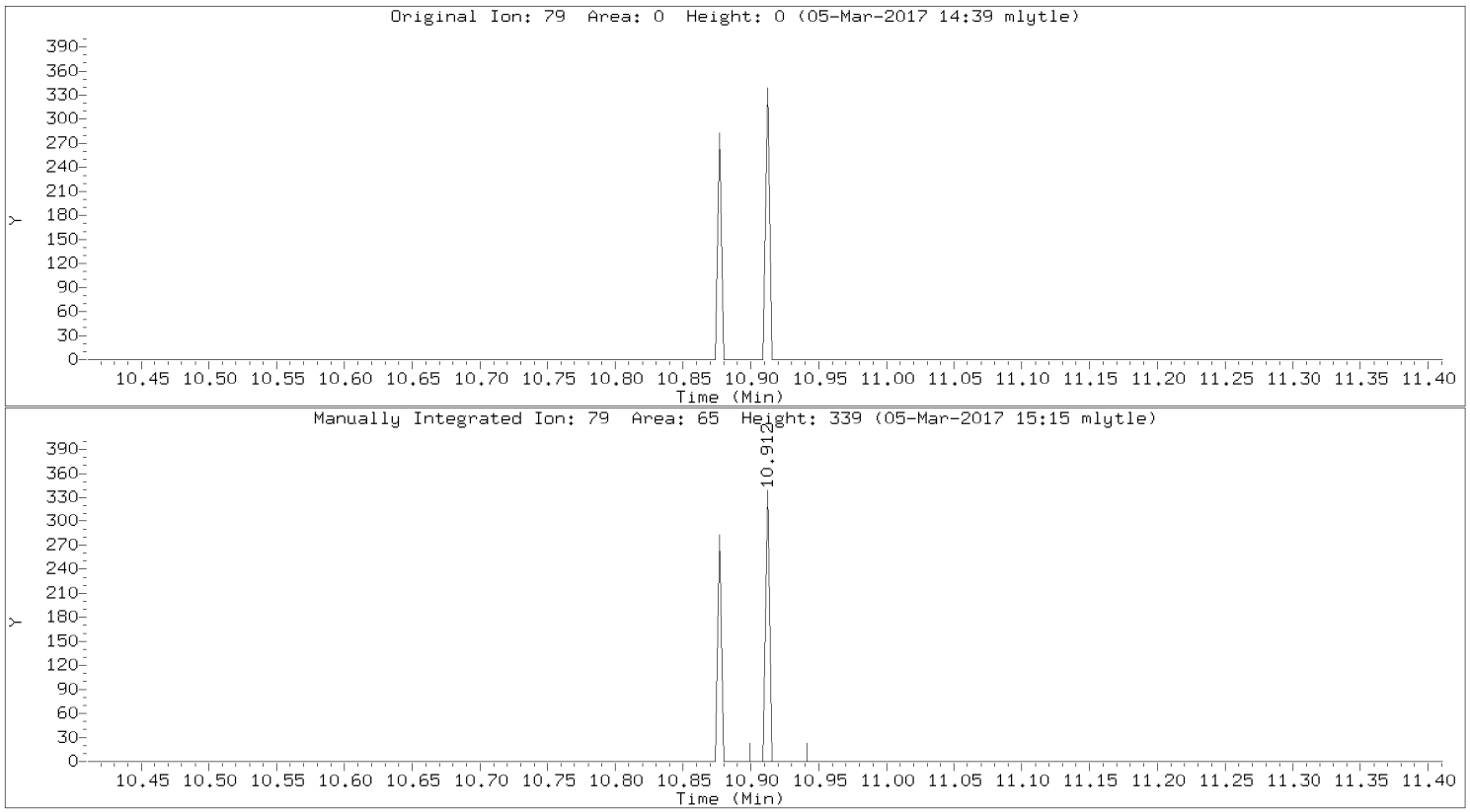






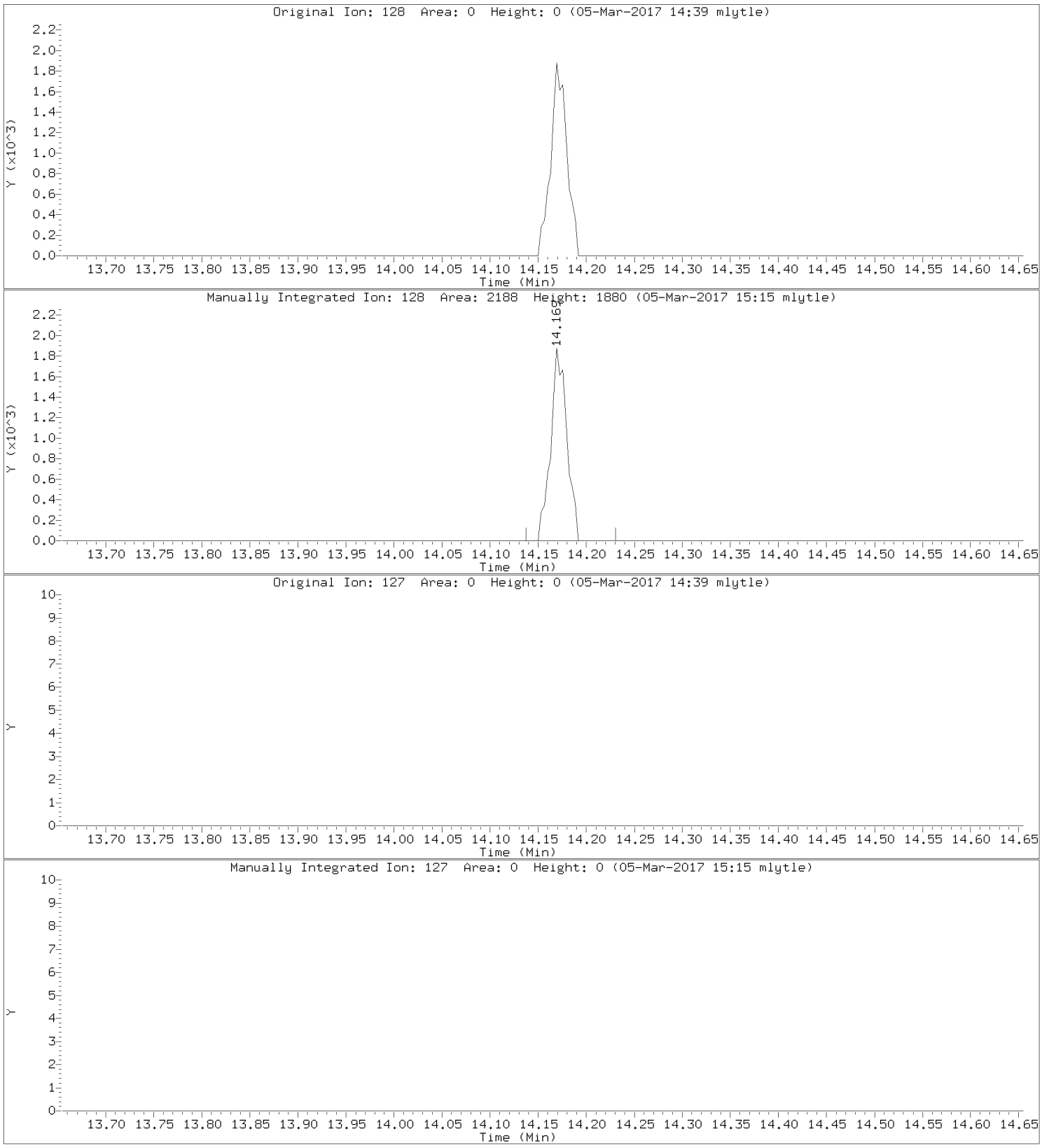


Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014



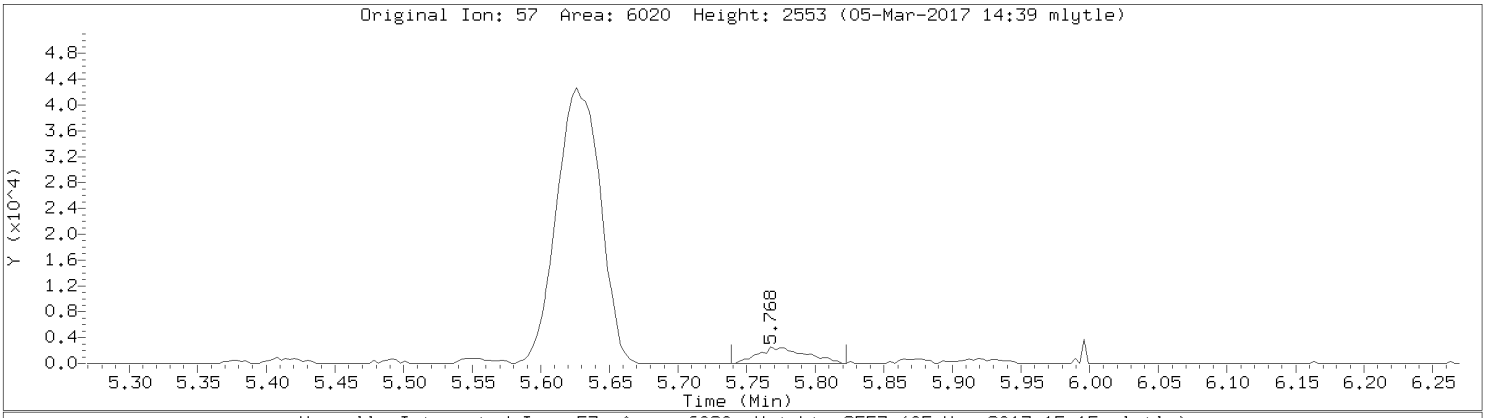
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014

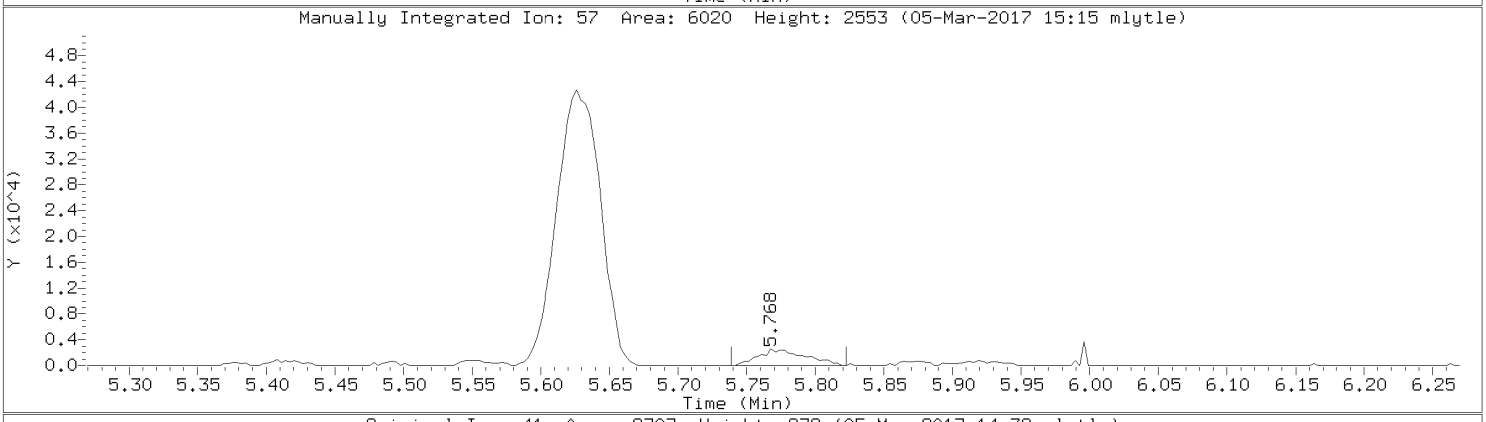
Compound: Naphthalene
CAS Number: 91-20-3

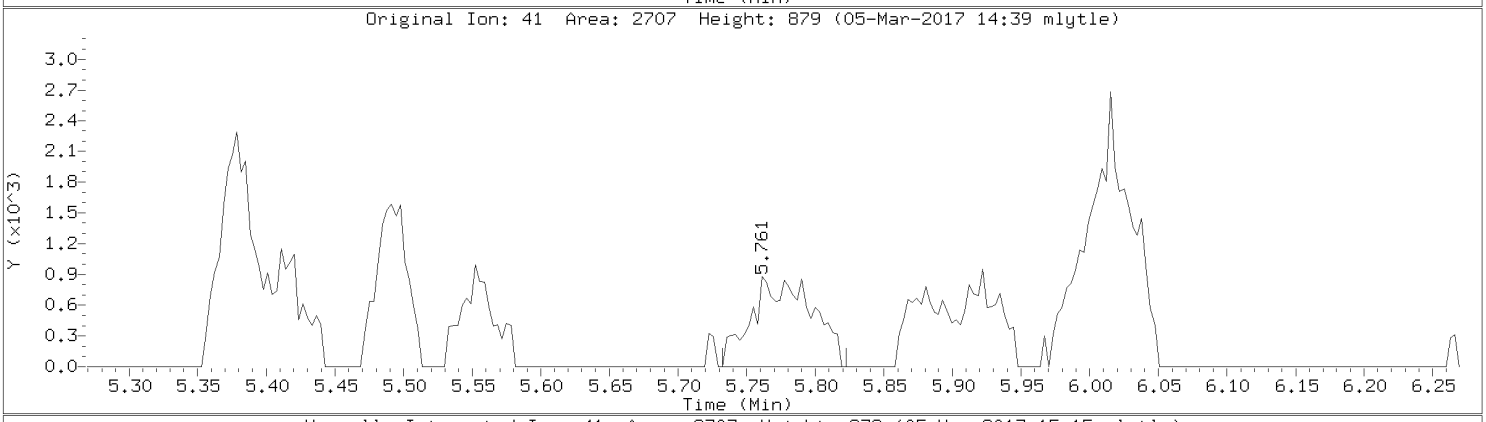


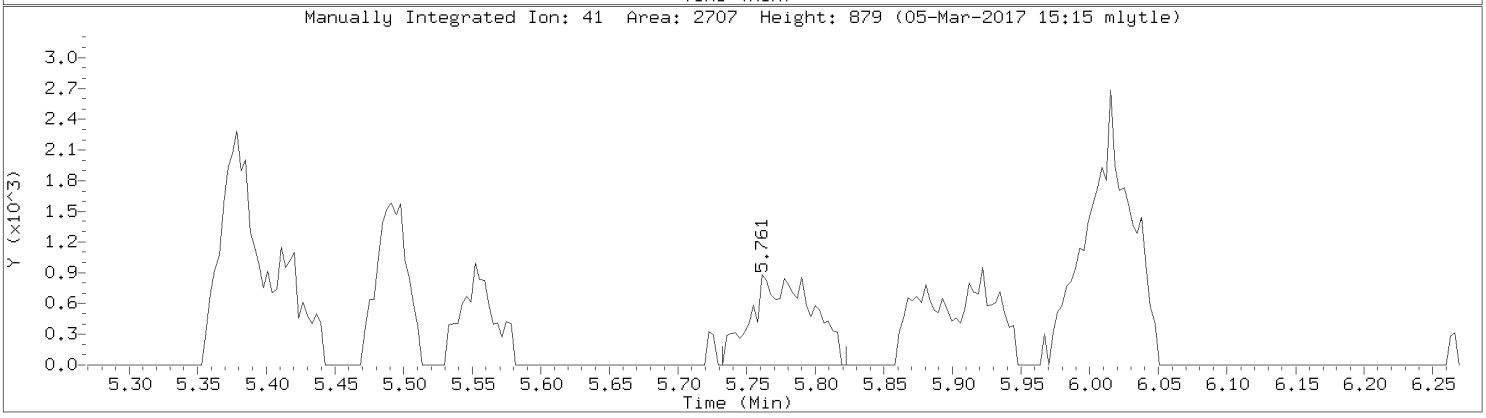
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

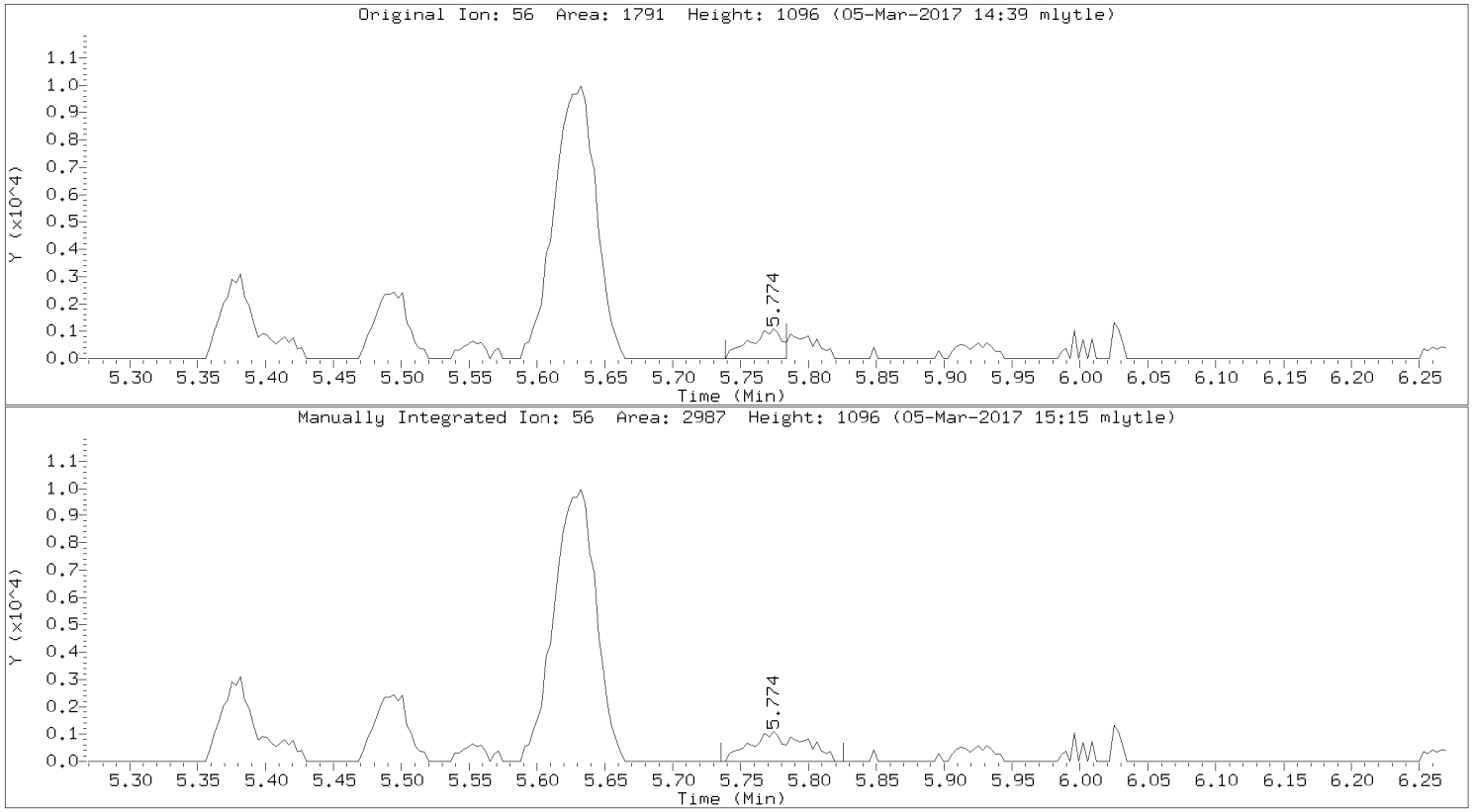






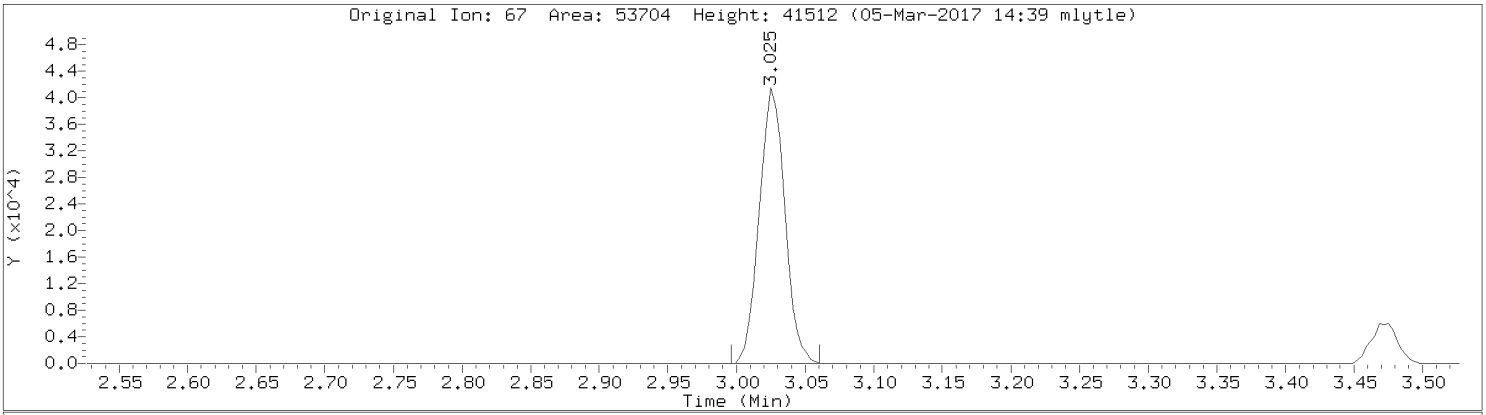


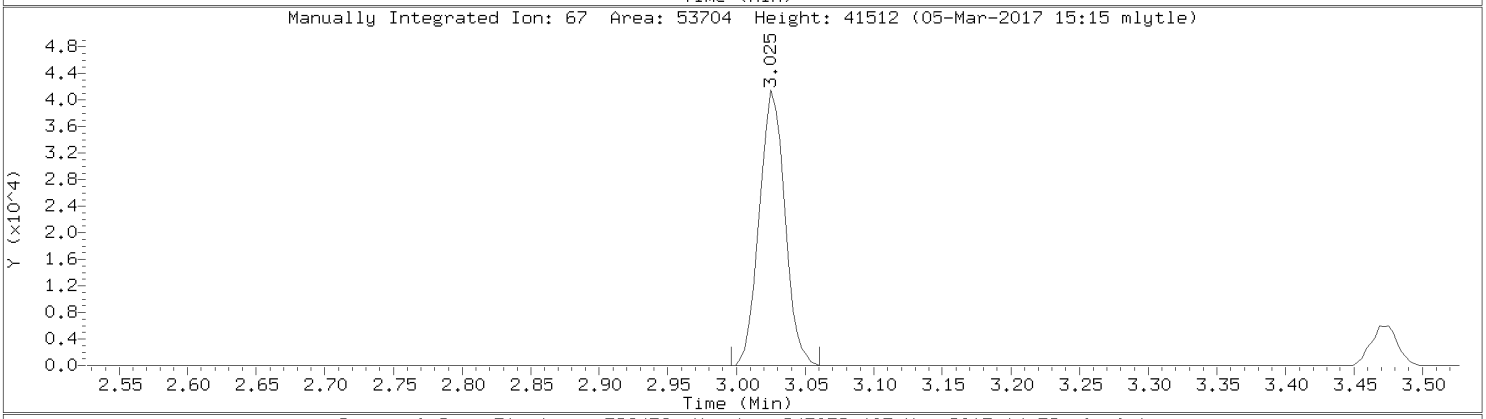
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014

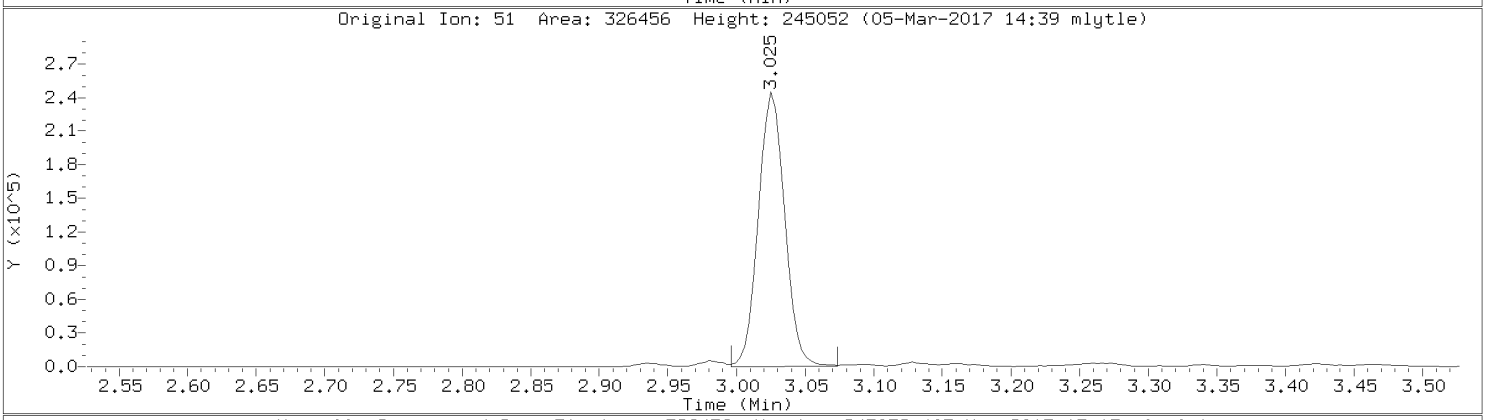


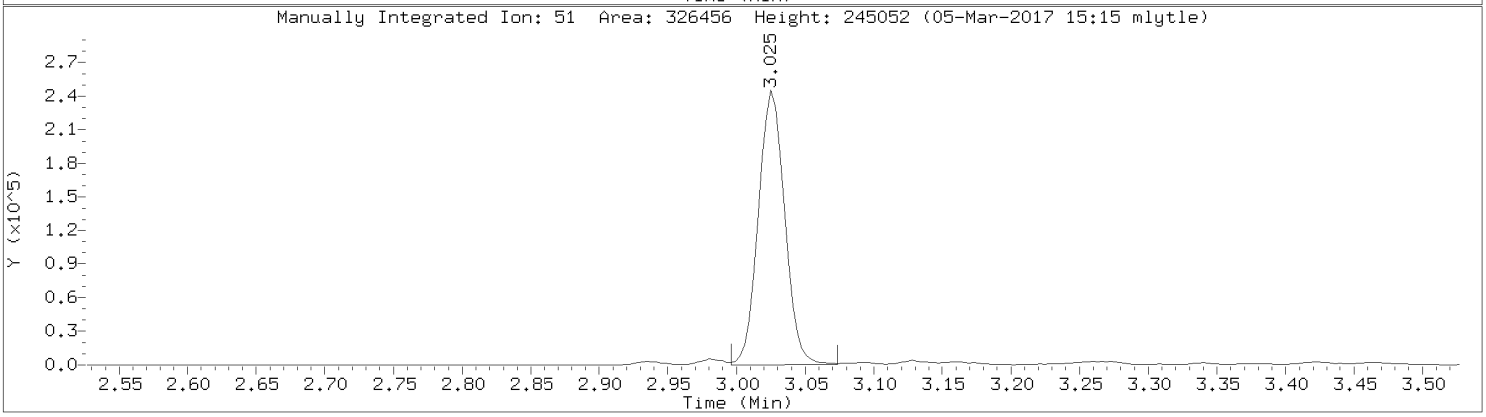
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

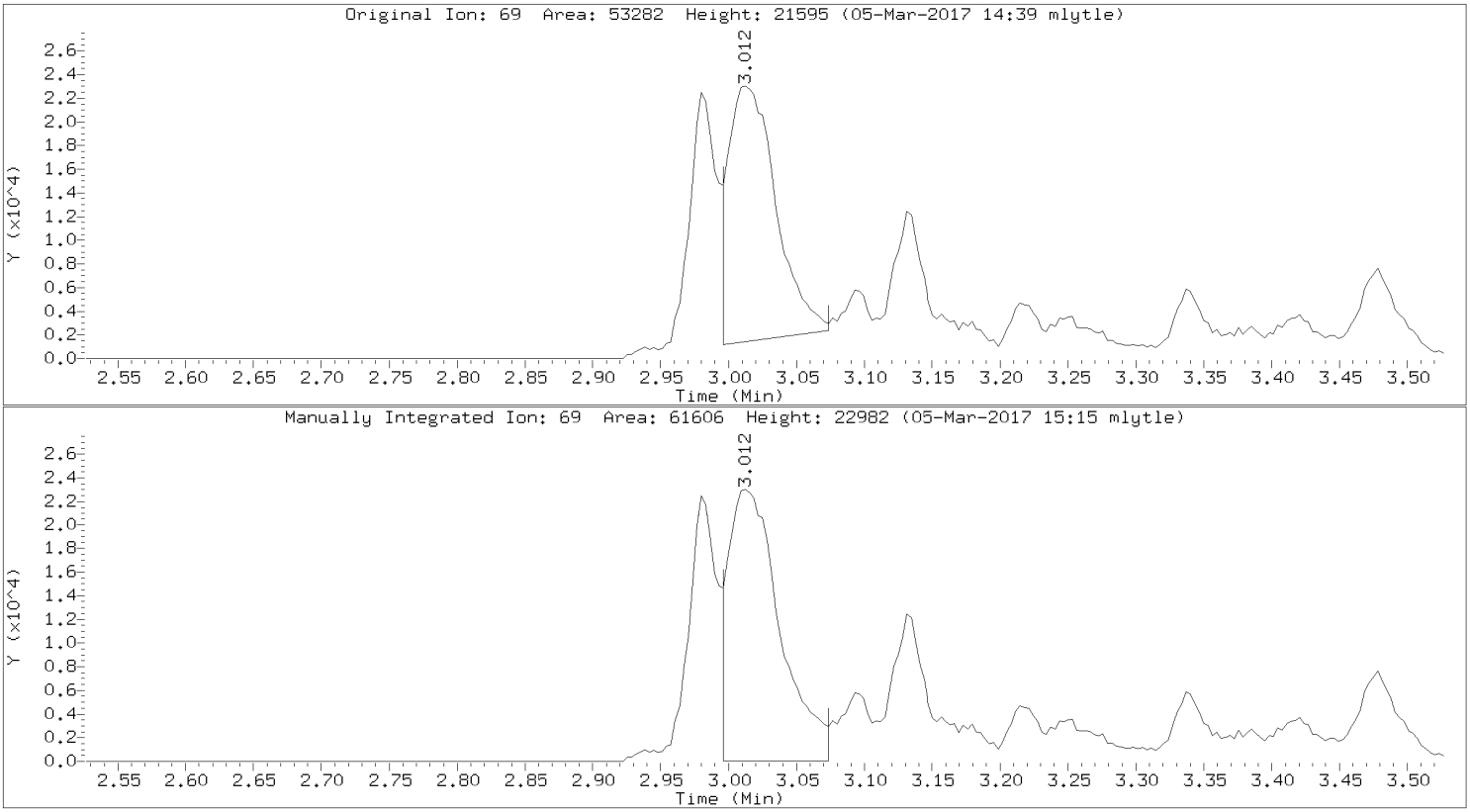








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06322.D
Injection Date: 04-MAR-2017 17:34
Instrument: 10airB.i
Lab Sample ID: 10379929014



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_53.5_20170221 **Lab ID: 10379929014** Collected: 02/21/17 13:10 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
o-Xylene	**1.4J**	ug/m3	2.2	0.86	2.45		03/04/17 17:34	95-47-6	

Sample: VP-8D_62.5_20170221 **Lab ID: 10379929015** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.2**	ug/m3	4.2	1.5	1.75		03/04/17 18:05	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/04/17 18:05	107-05-1	
Benzene	**0.71**	ug/m3	0.57	0.21	1.75		03/04/17 18:05	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/04/17 18:05	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/04/17 18:05	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/04/17 18:05	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/04/17 18:05	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/04/17 18:05	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/04/17 18:05	75-15-0	
Carbon tetrachloride	**0.83J**	ug/m3	1.1	0.34	1.75		03/04/17 18:05	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/04/17 18:05	108-90-7	
Chlorodifluoromethane	**171**	ug/m3	1.3	0.48	1.75		03/04/17 18:05	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/04/17 18:05	75-00-3	
Chloroform	**66.8**	ug/m3	0.87	0.33	1.75		03/04/17 18:05	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/04/17 18:05	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/04/17 18:05	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/04/17 18:05	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/04/17 18:05	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/04/17 18:05	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/04/17 18:05	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/04/17 18:05	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/04/17 18:05	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/04/17 18:05	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.8	0.84	1.75		03/04/17 18:05	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/04/17 18:05	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/04/17 18:05	107-06-2	
1,1-Dichloroethene	**7.0**	ug/m3	1.4	0.42	1.75		03/04/17 18:05	75-35-4	
cis-1,2-Dichloroethene	**494**	ug/m3	1.4	0.43	1.75		03/04/17 18:05	156-59-2	
cis-1,2-Dichloroethene	**917**	ug/m3	454	138	560		03/05/17 22:56	156-59-2	A3
trans-1,2-Dichloroethene	**12.5**	ug/m3	1.4	0.67	1.75		03/04/17 18:05	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/04/17 18:05	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/04/17 18:05	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/04/17 18:05	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/04/17 18:05	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/04/17 18:05	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/04/17 18:05	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/04/17 18:05	100-41-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06434.D
Report Date: 06-Mar-2017 14:15

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06434.D
Lab Smp Id: 10379929015
Inj Date : 05-MAR-2017 22:56
Operator : CH1 Inst ID: 10air7.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 34
Dil Factor: 560.00000
Integrator: HP RTE Compound Sublist: CLmini.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	560.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
	8 Vinyl chloride	62	Compound Not Detected.						
	20 1,1-Dichloroethene	61	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.526	3.520	(0.783)	177720	10.7471	10.7	
	36 cis-1,2-Dichloroethene	96	3.719	3.719	(0.826)	6113	0.40644	228(Q)	
	39 Chloroform	83	3.812	3.819	(0.847)	1881	0.05600	31.4	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	4.504	4.504	(1.000)	605858	10.0000		
	51 Trichloroethene	130	4.835	4.835	(1.074)	306527	10.7233	6010	
$	59 Toluene-d8 (S)	98	5.835	5.835	(1.296)	498545	9.80260	9.80	
	66 Tetrachloroethene	166	6.684	6.683	(0.915)	14437	0.37837	212	
*	67 Chlorobenzene - d5	117	7.307	7.310	(1.000)	384824	10.0000		
$	85 1,4-dichlorobenzene-d4 (S)	150	10.484	10.487	(1.435)	143928	9.14123	9.14	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06434.D
Report Date: 06-Mar-2017 14:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06434.D
Lab Smp Id: 10379929015
Analysis Type: VOA
Quant Type: ISTD
Operator: CH1
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info: 27836

Calibration Date: 05-MAR-2017
Calibration Time: 10:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

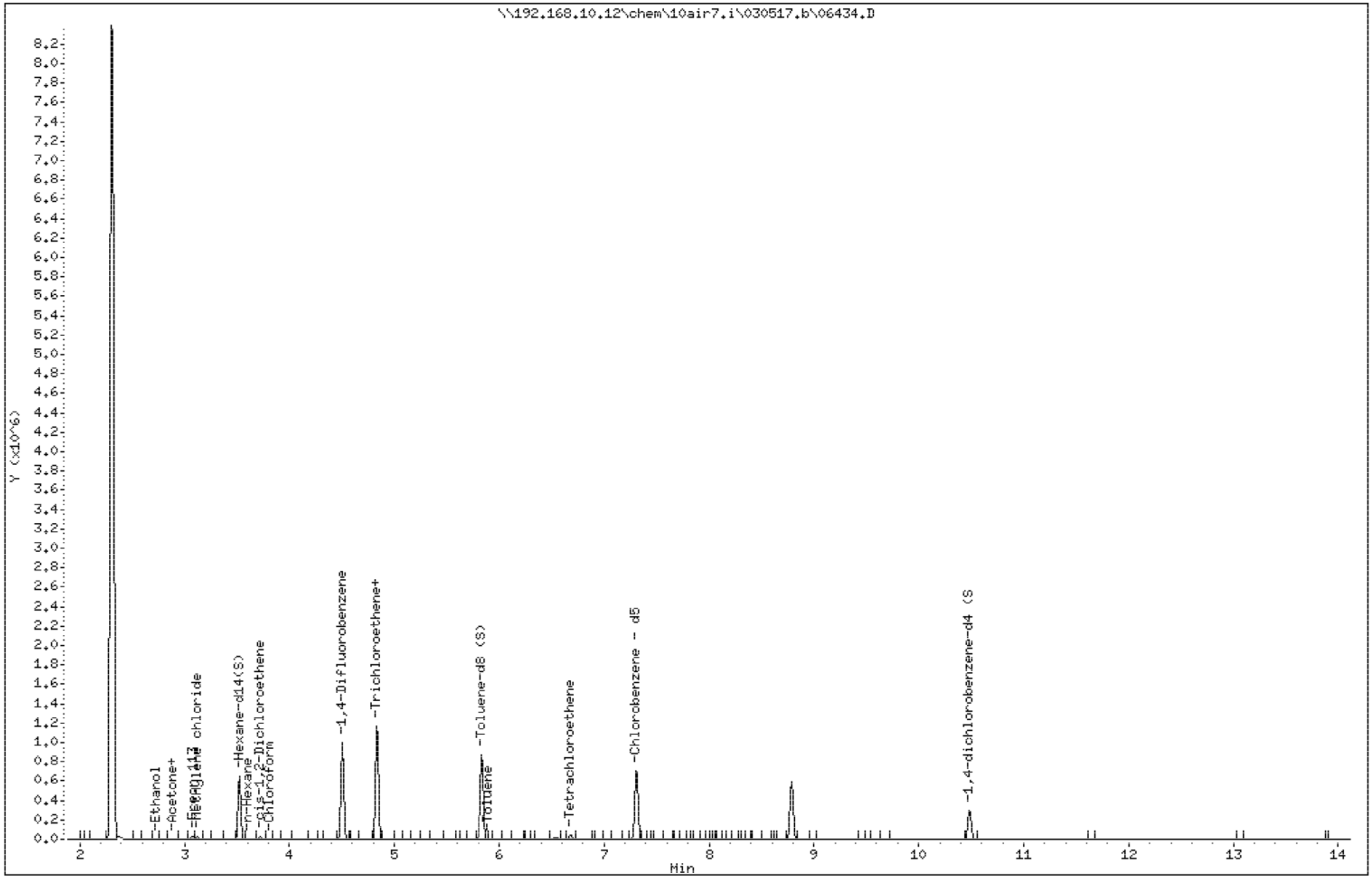
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	605858	-27.53
67 Chlorobenzene - d	539522	323713	755331	384824	-28.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.50	4.17	4.83	4.50	0.00
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06434.D
Date : 05-MAR-2017 22:56
Client ID:
Sample Info:

Instrument: 10air7.i
Operator: CH1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06434.D

Date : 05-MAR-2017 22:56

Client ID:

Instrument: 10air7.i

Sample Info:

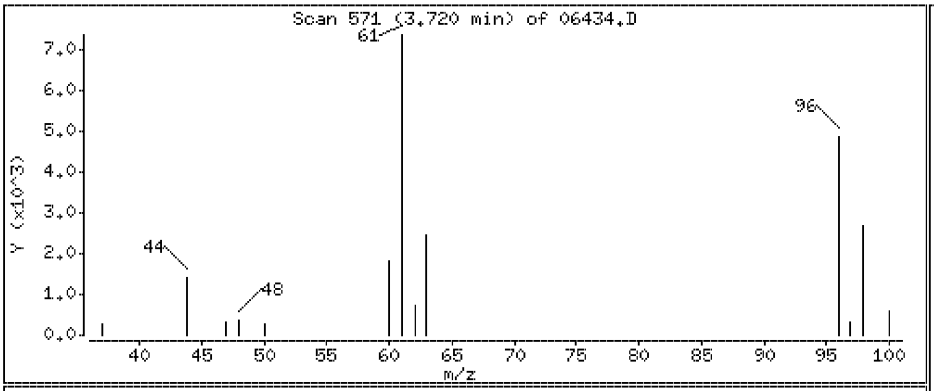
Operator: CH1

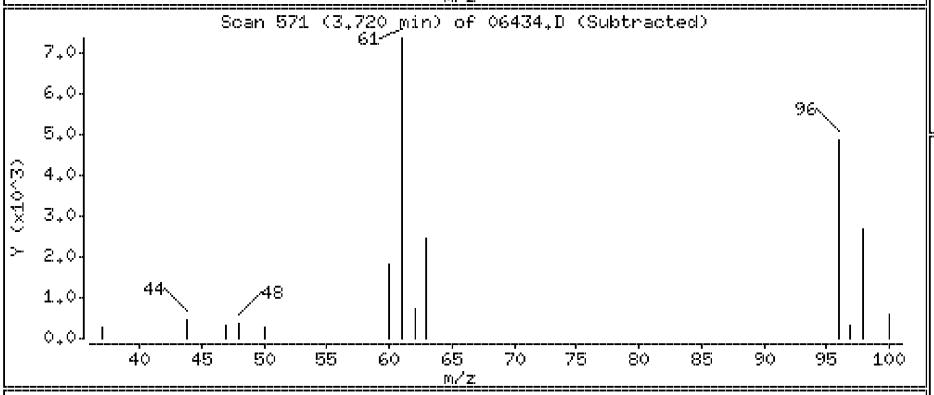
Column phase: J&W DB-5

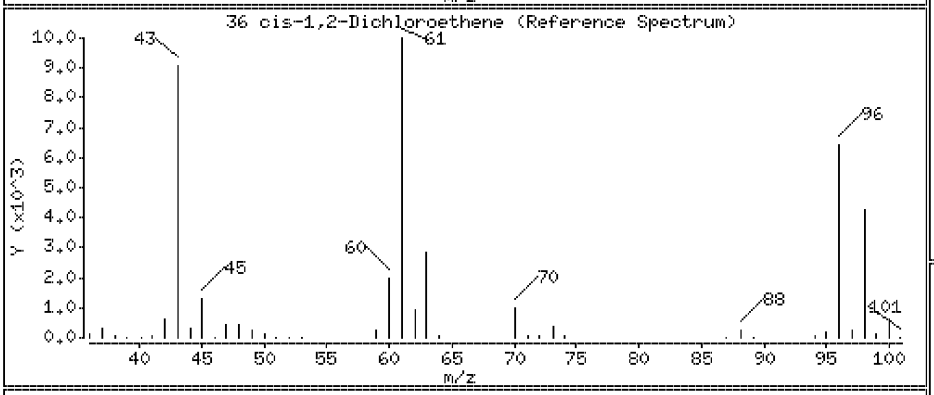
Column diameter: 0.32

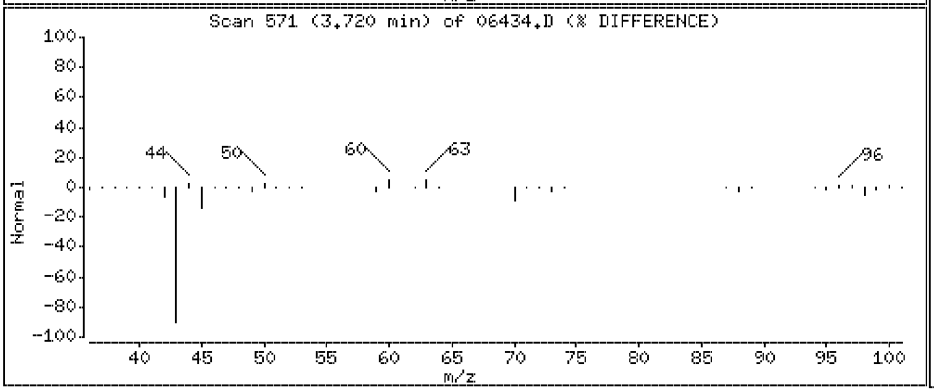
36 cis-1,2-Dichloroethene

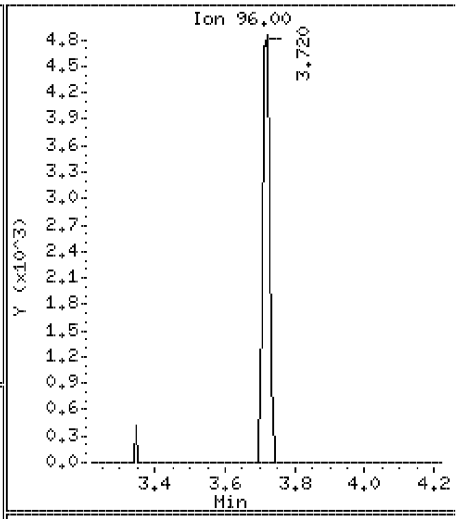
Concentration: 228 ppbv

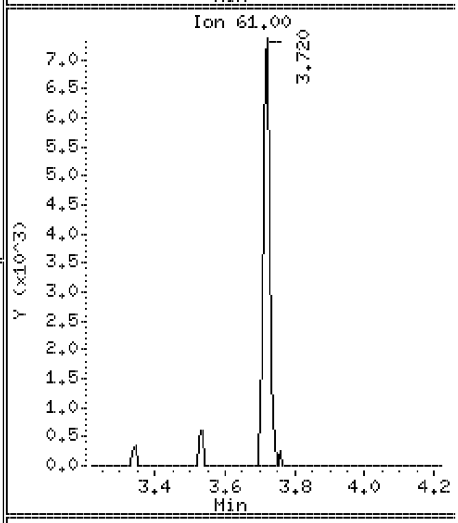


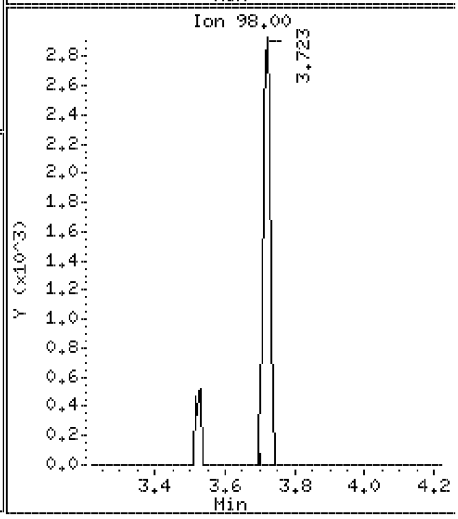












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06434.D

Date : 05-MAR-2017 22:56

Client ID:

Instrument: 10air7.i

Sample Info:

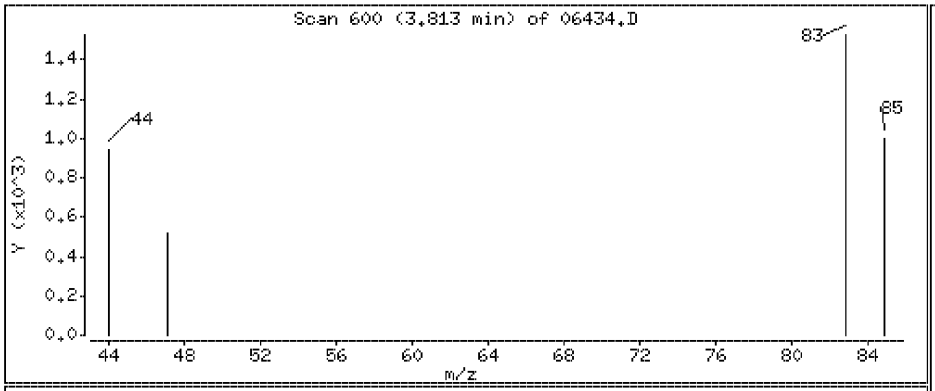
Operator: CH1

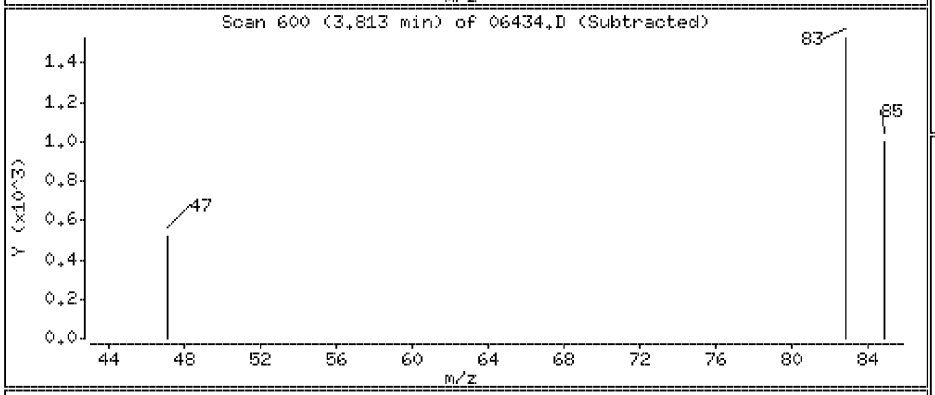
Column phase: J&W DB-5

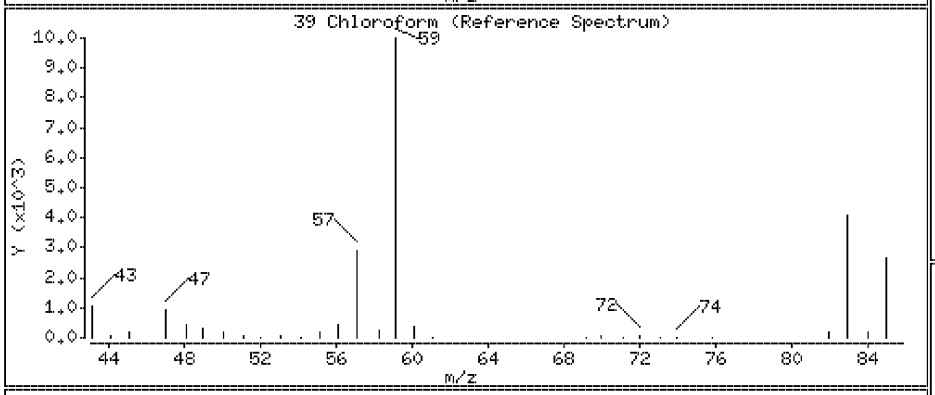
Column diameter: 0.32

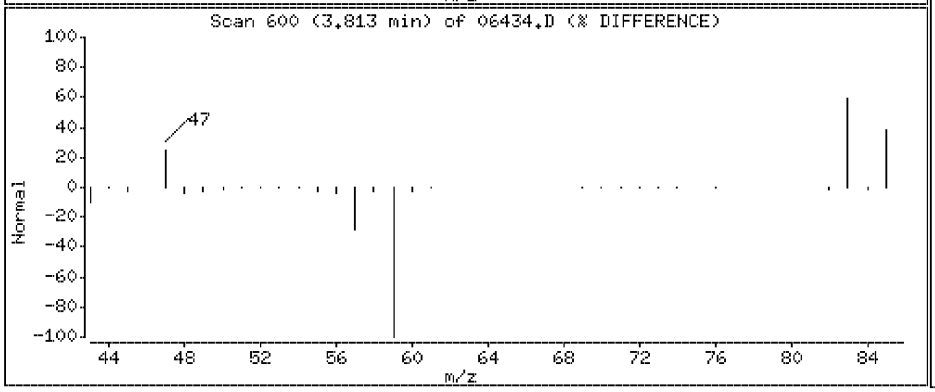
39 Chloroform

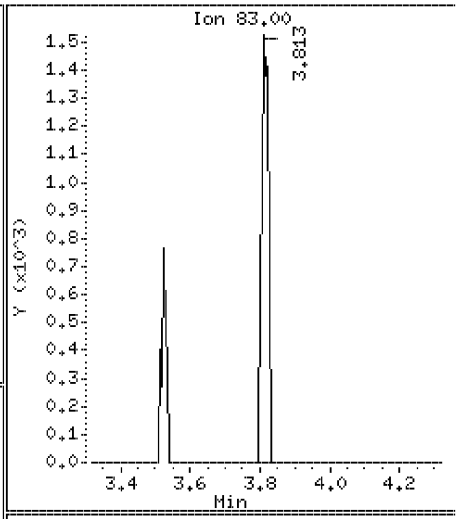
Concentration: 31.4 ppbv

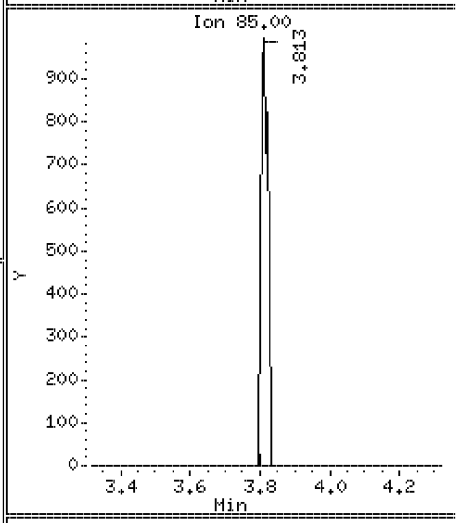


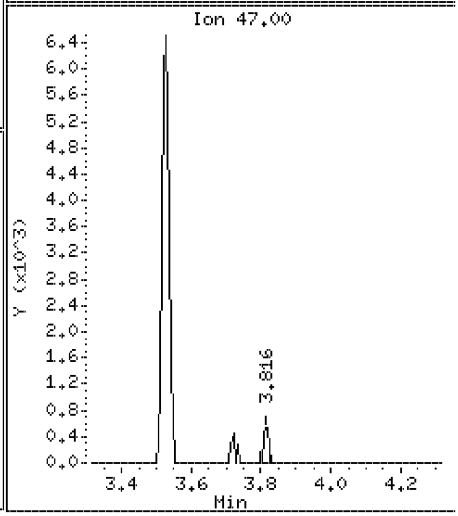












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06434.D

Date : 05-MAR-2017 22:56

Client ID:

Instrument: 10air7.i

Sample Info:

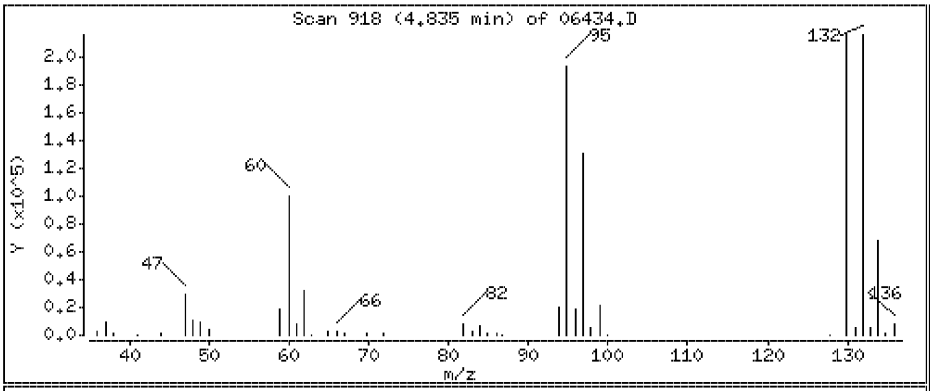
Operator: CH1

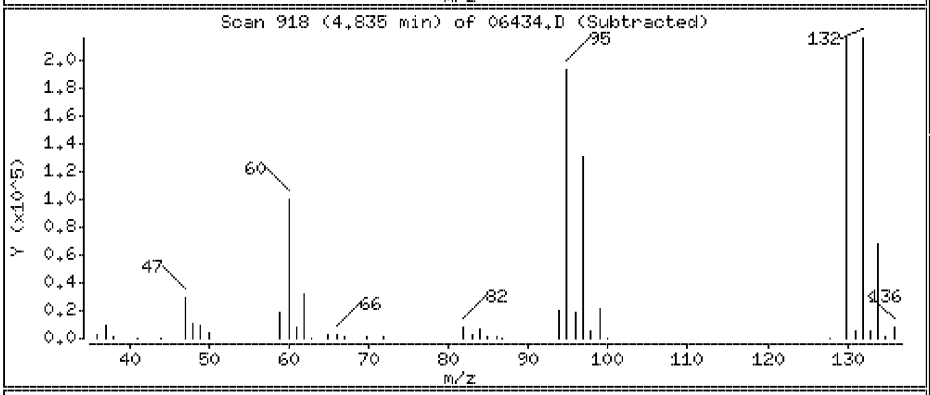
Column phase: J&W DB-5

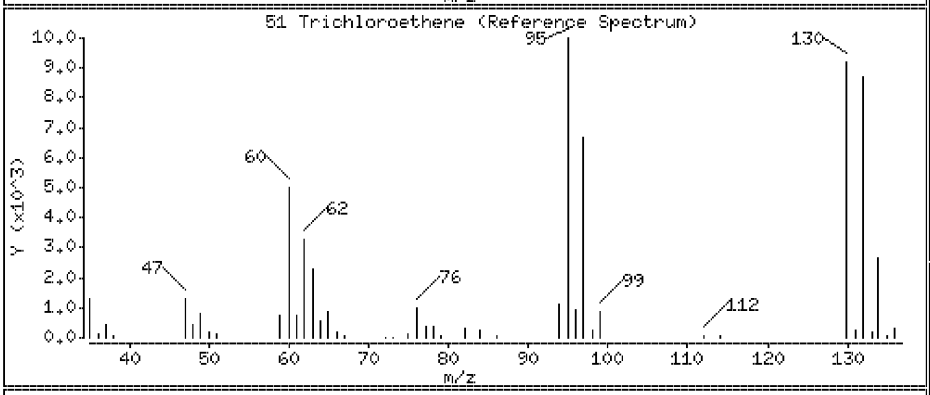
Column diameter: 0.32

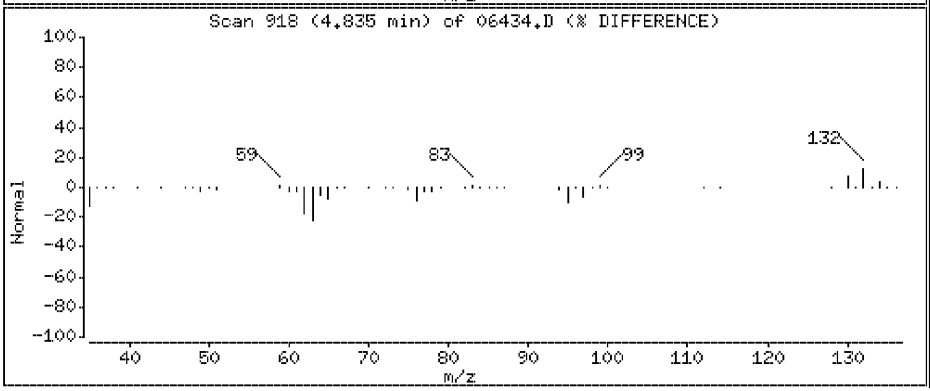
51 Trichloroethene

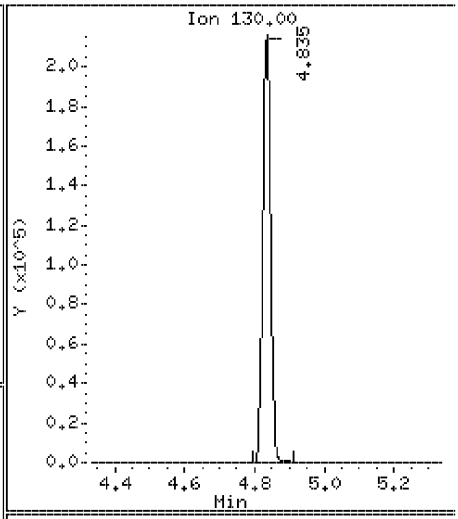
Concentration: 6010 ppbv

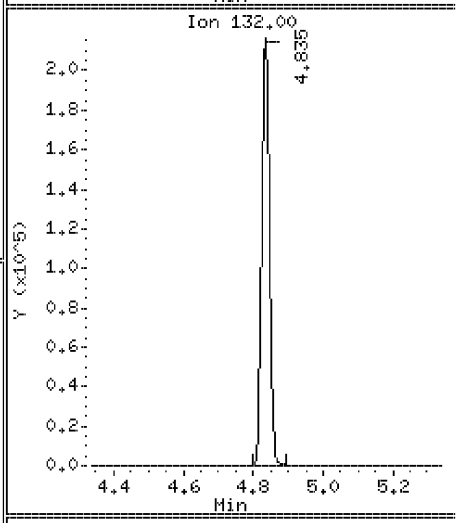


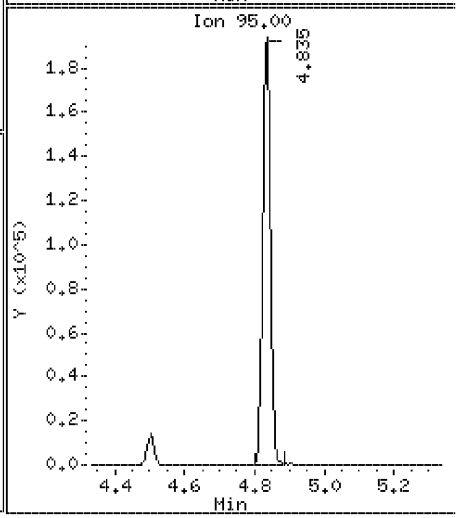












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06434.D

Date : 05-MAR-2017 22:56

Client ID:

Instrument: 10air7.i

Sample Info:

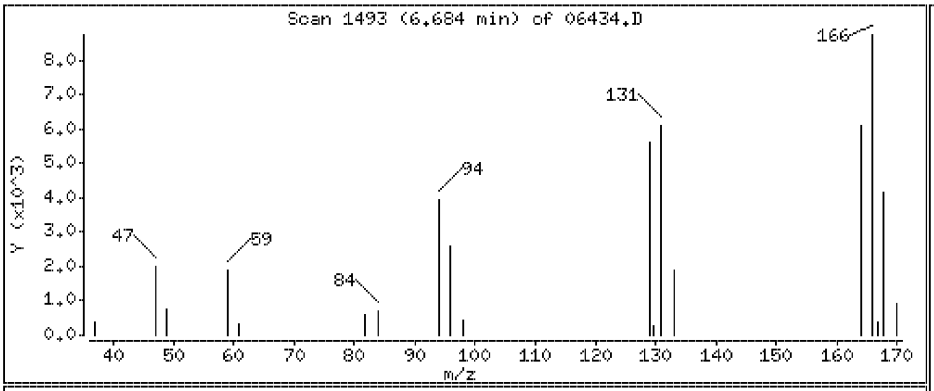
Operator: CH1

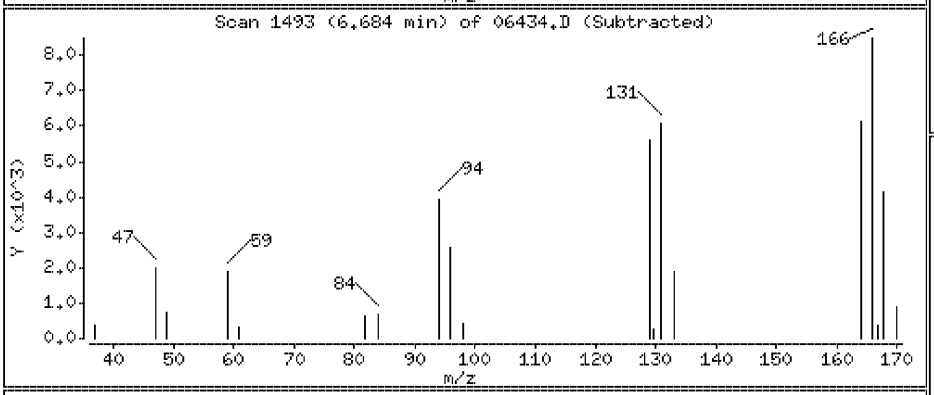
Column phase: J&W DB-5

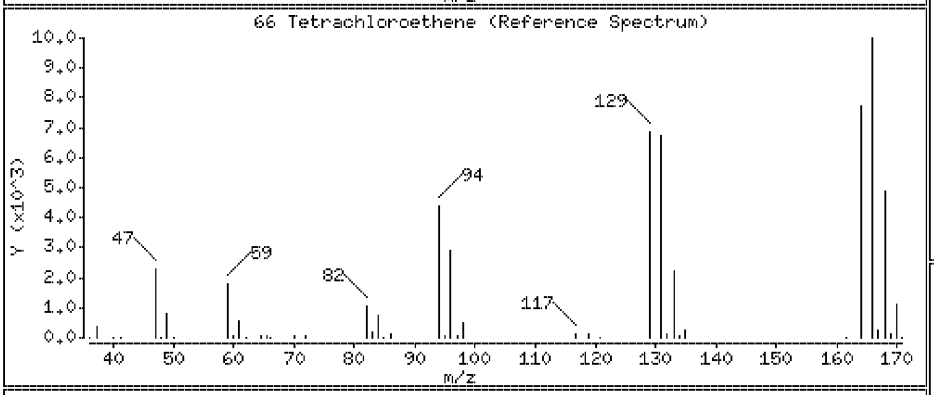
Column diameter: 0.32

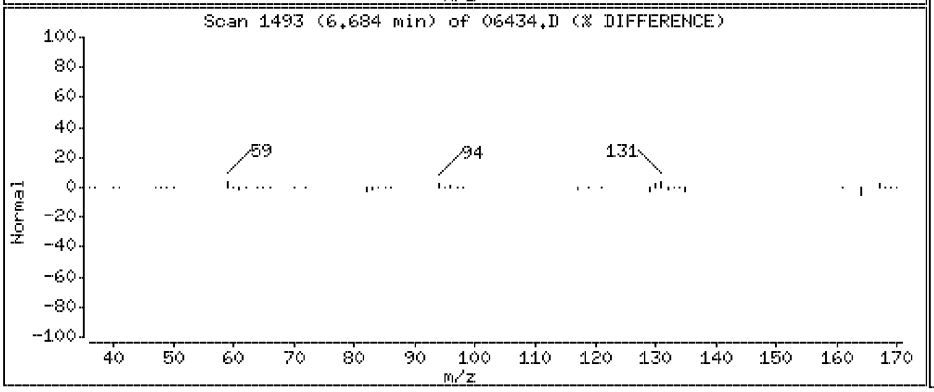
66 Tetrachloroethene

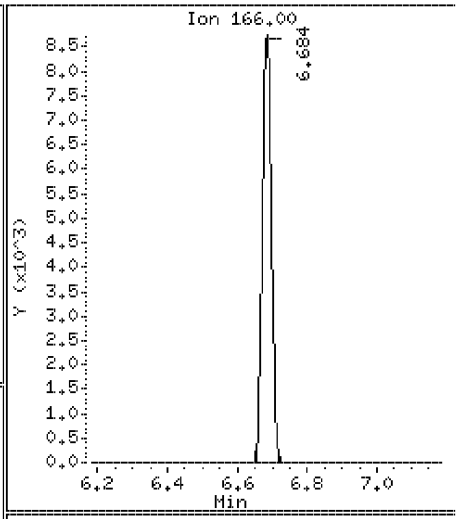
Concentration: 212 ppbv

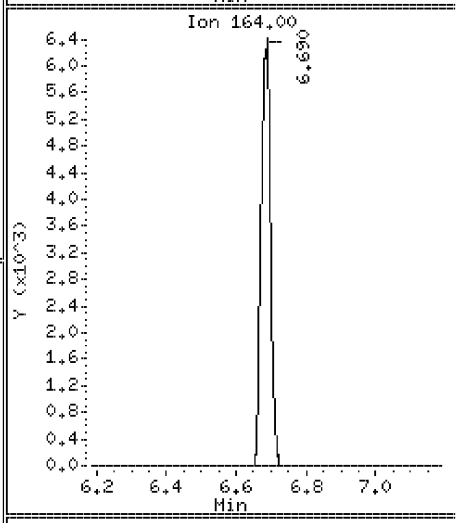


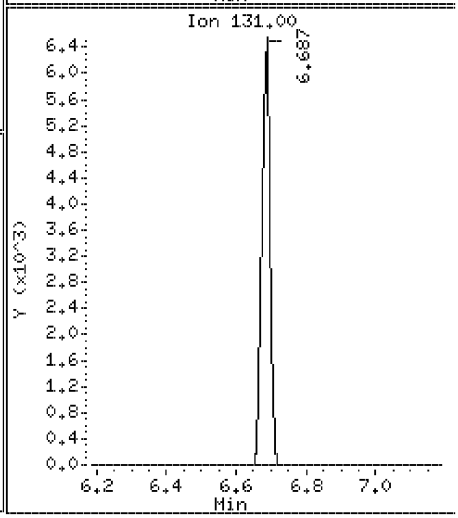












Data File: \\192.168.10.12\chem\10air7.i\030517.b/06434.D
Injection Date: 05-MAR-2017 22:56
Instrument: 10air7.i
Lab Sample ID: 10379929015
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D
Report Date: 09-Mar-2017 13:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06323.D
Lab Smp Id: 10379929015
Inj Date : 04-MAR-2017 18:05
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 08-Mar-2017 14:47 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 23
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.024	3.028	(0.538)	101698	27.2063	47.6(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.060	(0.543)	13686	0.28472	0.498(M)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	3.227	3.234	(0.574)	1557	0.11761	0.206	
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.545	(0.631)	14737	3.00704	5.26	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.581	3.600	(0.637)	7472	0.42625	0.746	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.661	3.674	(0.651)	77806	2.12779	3.72	
17	Acrolein	56	3.693	3.684	(0.657)	1849	0.56799	0.994(Q)	
18	Acetone	43	3.732	3.722	(0.663)	75976	3.59013	6.28	
19	Isopropyl Alcohol	45	3.777	3.767	(0.671)	10948	0.50726	0.888	
20	1,1-Dichloroethene	61	3.899	3.909	(0.693)	21127	0.99344	1.74	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.954	3.951	(0.703)	815018	29.5156	51.7	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D
Report Date: 09-Mar-2017 13:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.992	4.005	(0.710)	48365	3.23801	5.67(H)	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.259	4.275	(0.757)	21063	1.76522	3.09	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.491	4.491	(0.798)	404137	9.52375	9.52	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.587	4.584	(0.815)	9323	0.43834	0.767(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.716	4.725	(0.838)	934554	70.1003	123(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.828	4.841	(0.858)	212646	7.69566	13.5	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.227	5.233	(0.929)	3440	0.10582	0.185	
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.475	5.468	(0.973)	5400	0.12554	0.220(M)	
	44 Carbon tetrachloride	117	5.478	5.484	(0.974)	2415	0.07434	0.130	
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.626	5.613	(1.000)	1333780	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.999	5.989	(1.066)	9392049	419.101	733(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.089	7.076	(1.260)	1091214	9.14091	9.14	
	60 1,1,2-Trichloroethane	97	7.156	7.143	(1.272)	22263	1.24453	2.18(H)	
	61 Toluene	91	7.166	7.153	(1.274)	37229	0.69110	1.21	
	62 Methyl Butyl Ketone	43	7.388	7.372	(0.854)	3821	0.14326	0.251	
	63 n-Octane	43	7.574	7.584	(0.876)	8456	0.29275	0.512(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.999	7.986	(0.925)	1761662	60.0760	105(A)	
*	67 Chlorobenzene - d5	117	8.648	8.645	(1.000)	844483	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.079	9.082	(1.050)	5583	0.11452	0.200	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D
Report Date: 09-Mar-2017 13:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.384	11.378	(2.024)	3151	0.32729	0.573	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	478861	10.2937	10.3	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.156	(1.639)	12126	0.68415	1.20	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D
Report Date: 09-Mar-2017 13:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06323.D
Lab Smp Id: 10379929015
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

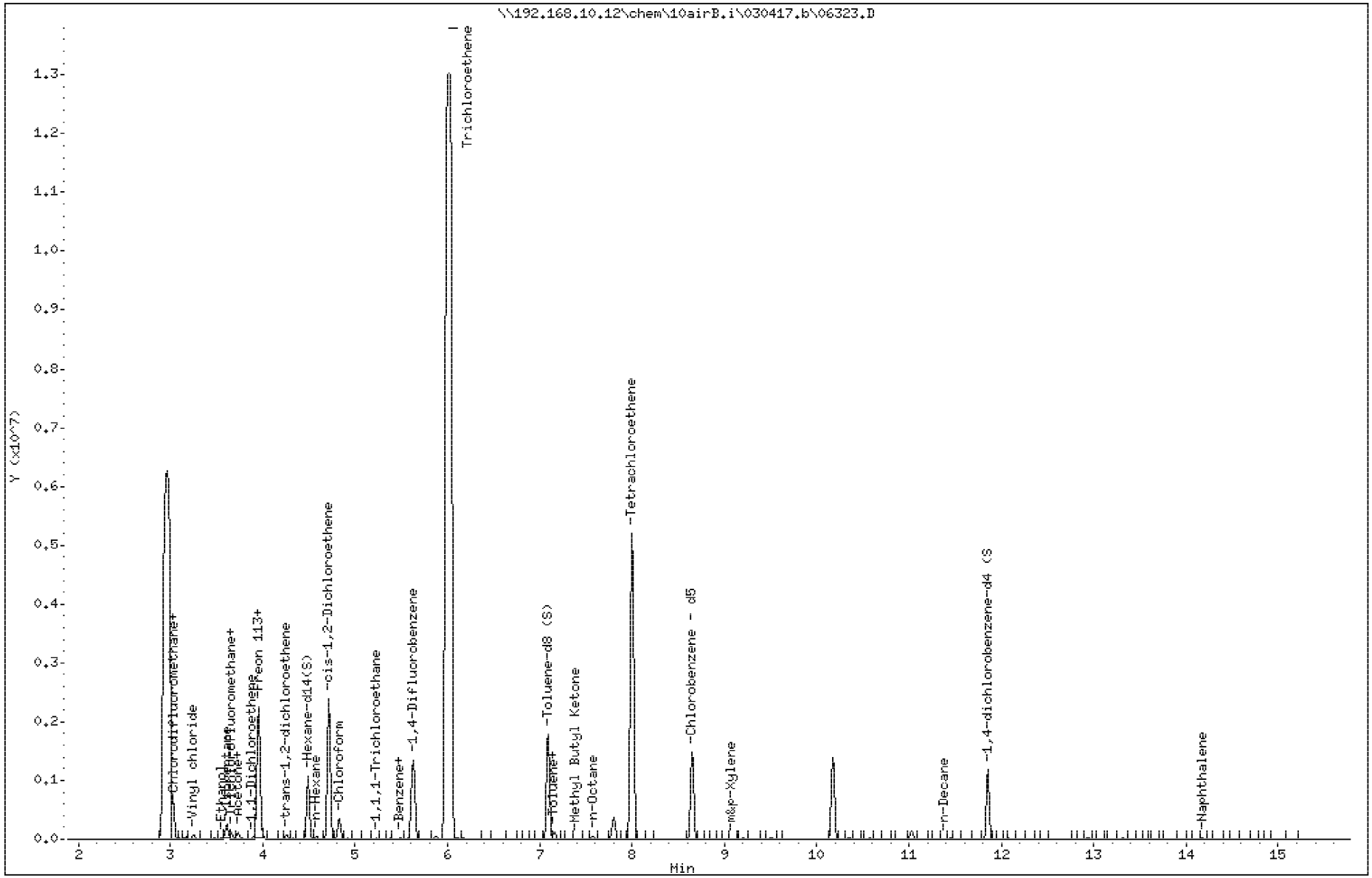
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1333780	-5.68
67 Chlorobenzene - d	951026	570616	1331436	844483	-11.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.63	0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D
Date : 04-MAR-2017 18:05
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

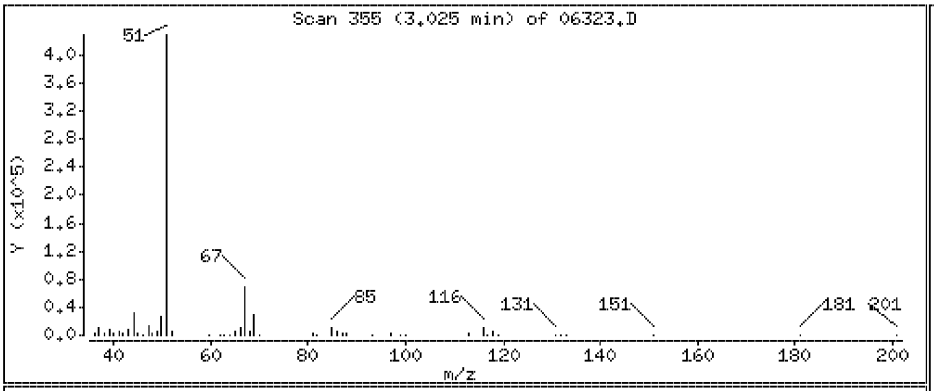
Operator: MJL

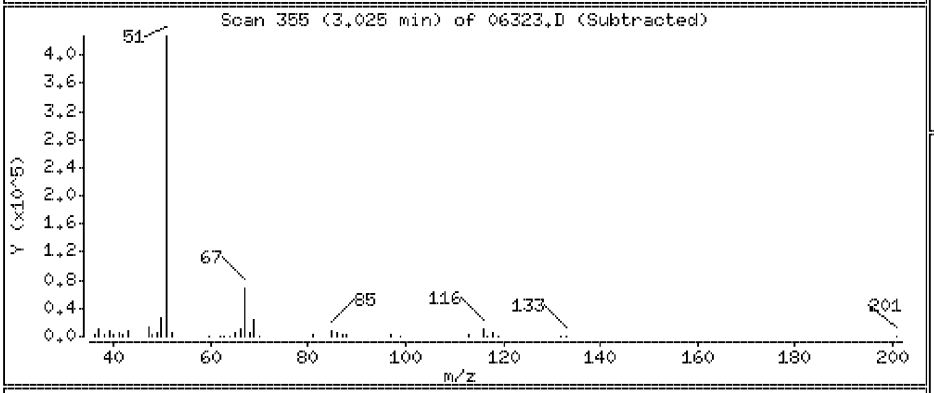
Column phase: J&W DB-5

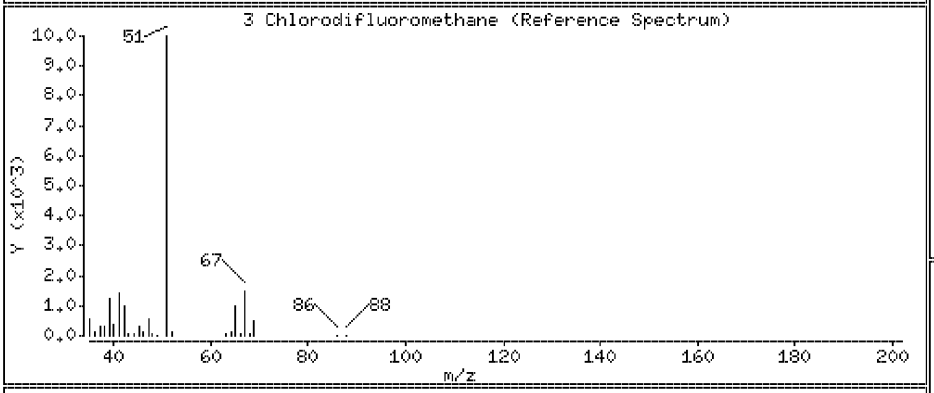
Column diameter: 0.32

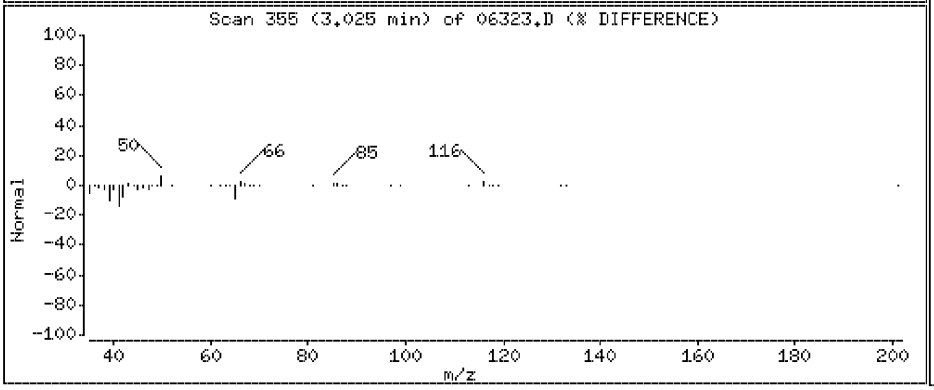
3 Chlorodifluoromethane

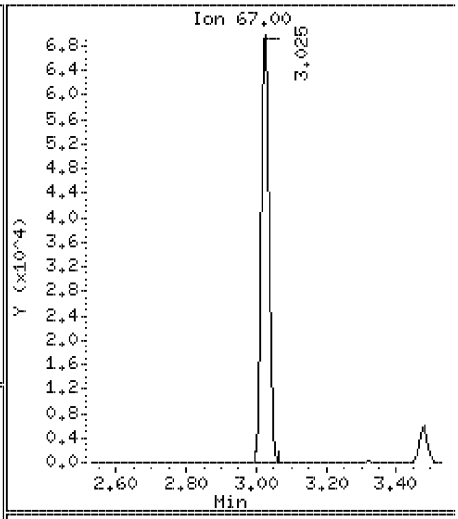
Concentration: 47.6 ppbv

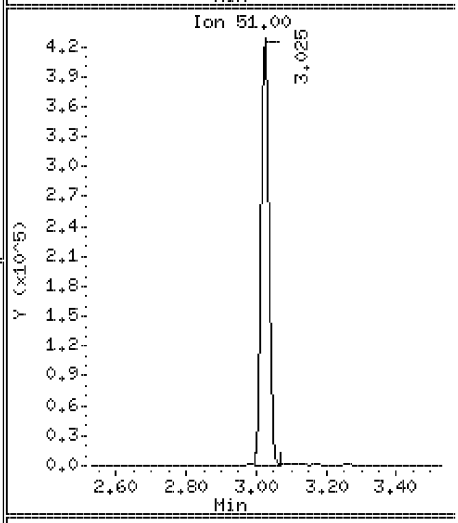


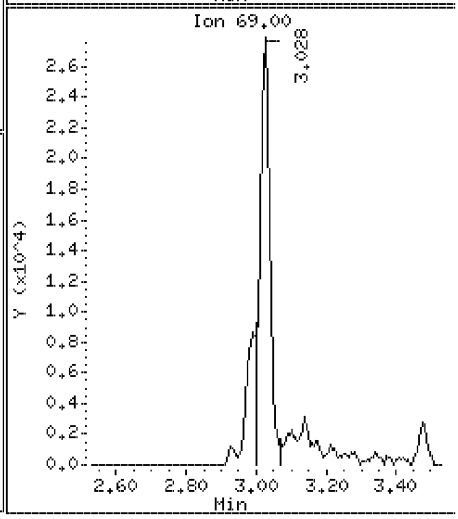












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

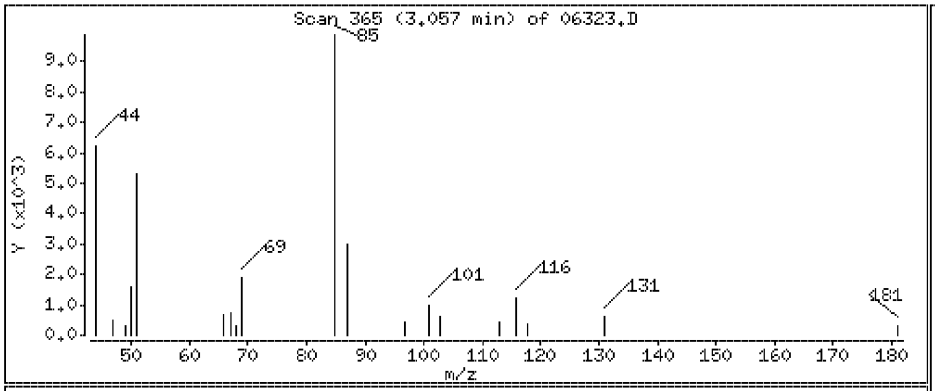
Operator: MJL

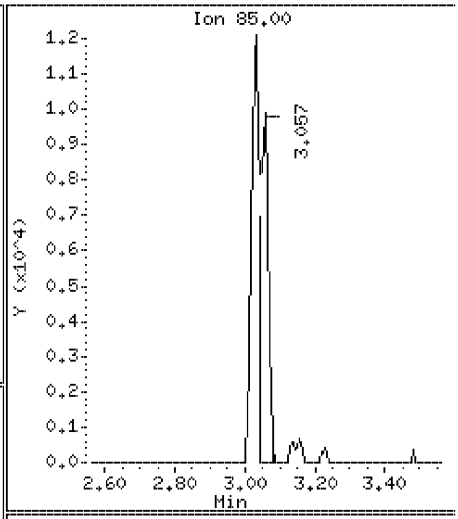
Column phase: J&W DB-5

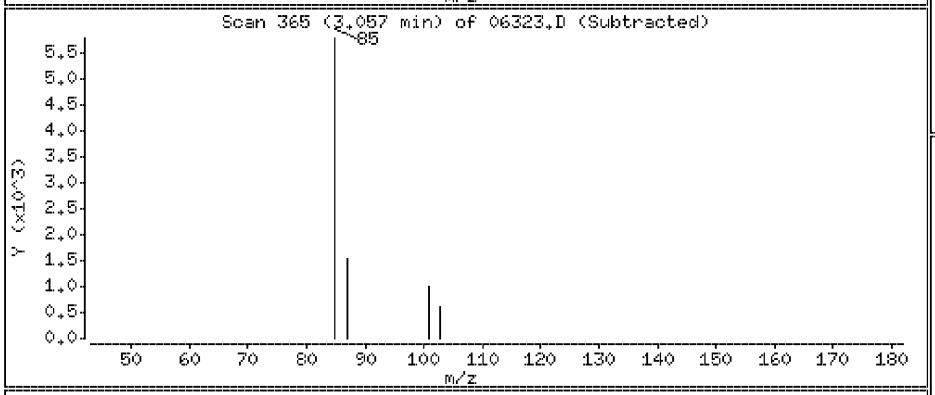
Column diameter: 0.32

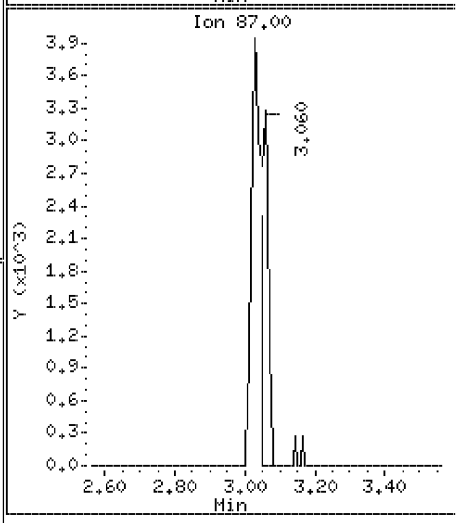
5 Dichlorodifluoromethane

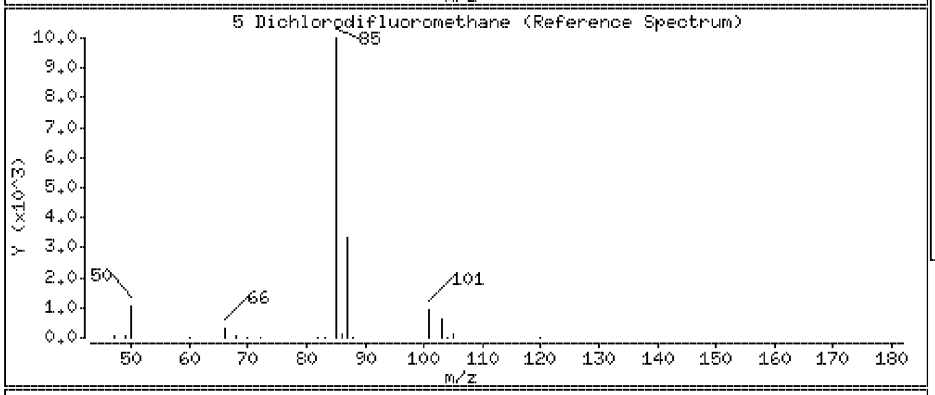
Concentration: 0.498 ppbv

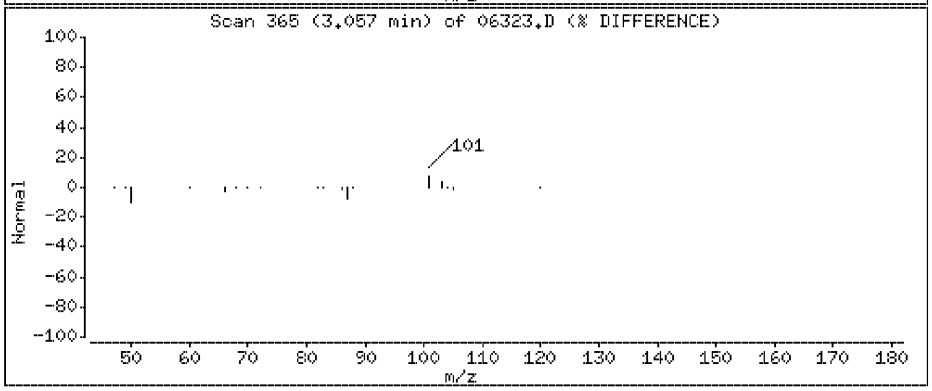












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

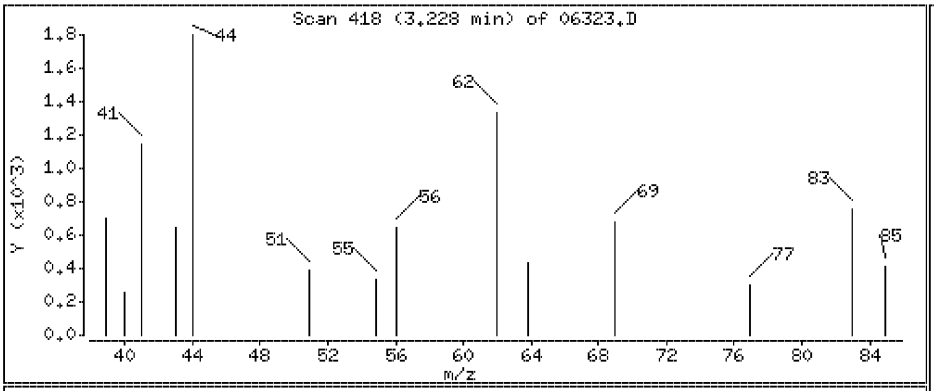
Operator: MJL

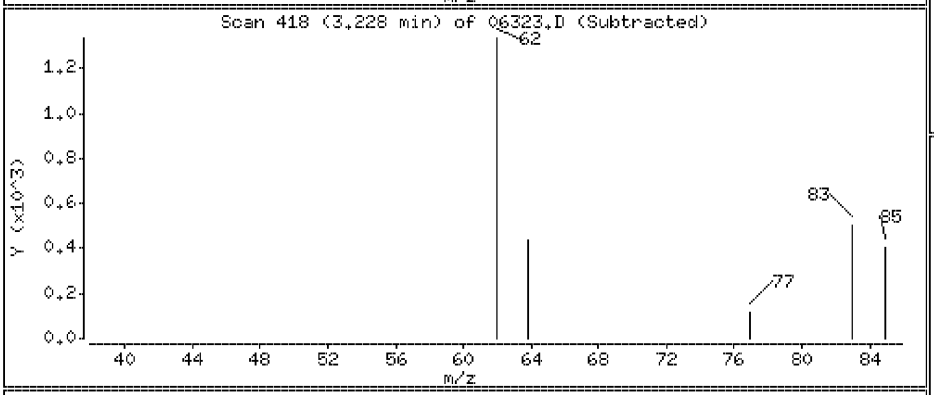
Column phase: J&W DB-5

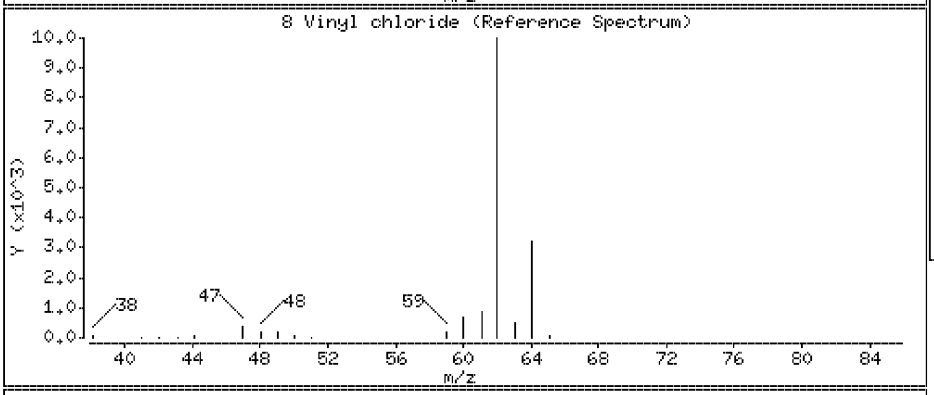
Column diameter: 0.32

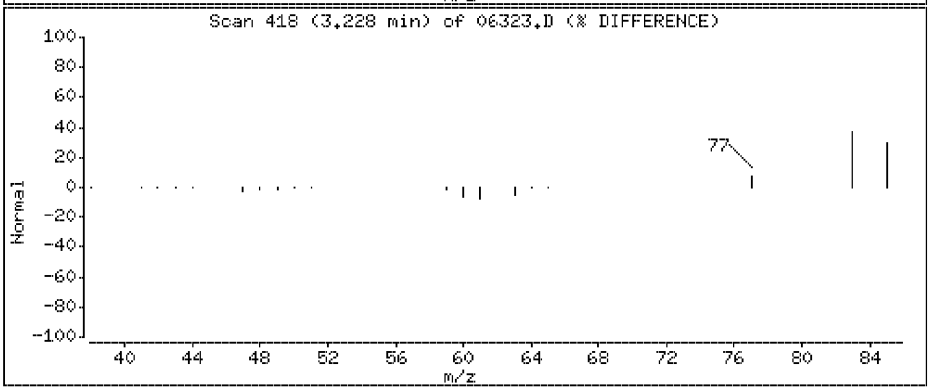
8 Vinyl chloride

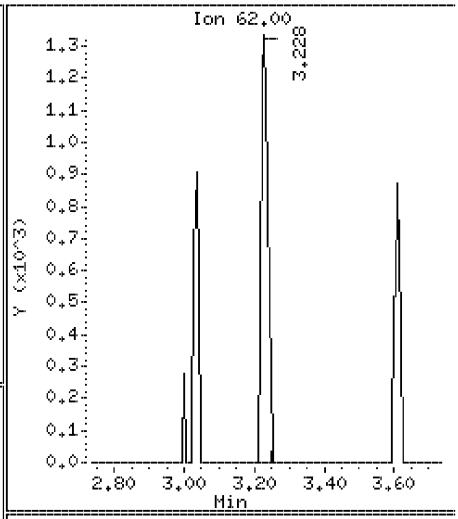
Concentration: 0.206 ppbv

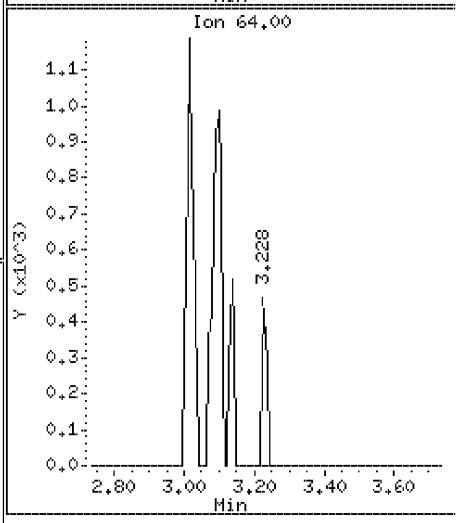












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

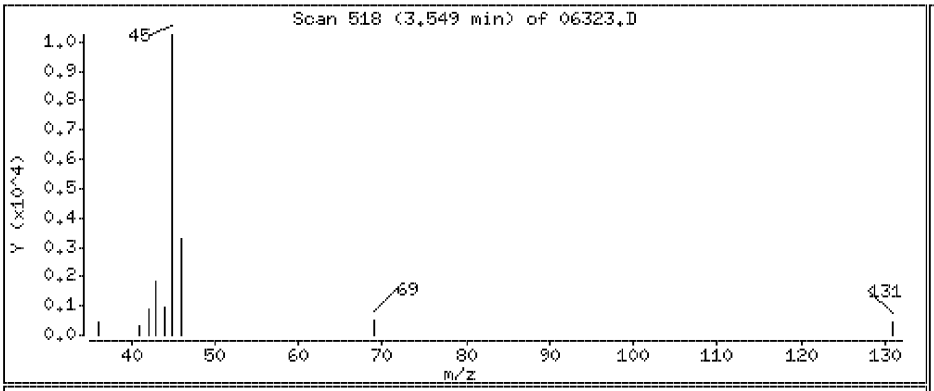
Operator: MJL

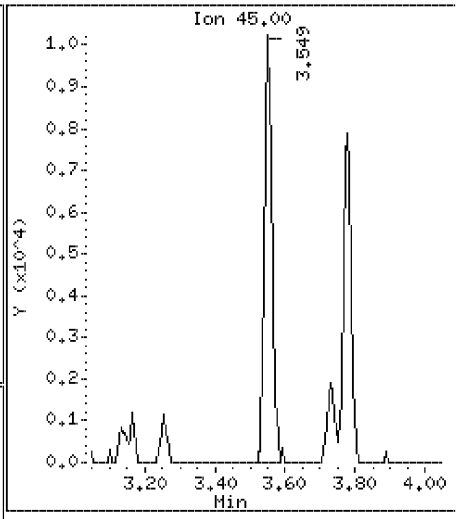
Column phase: J&W DB-5

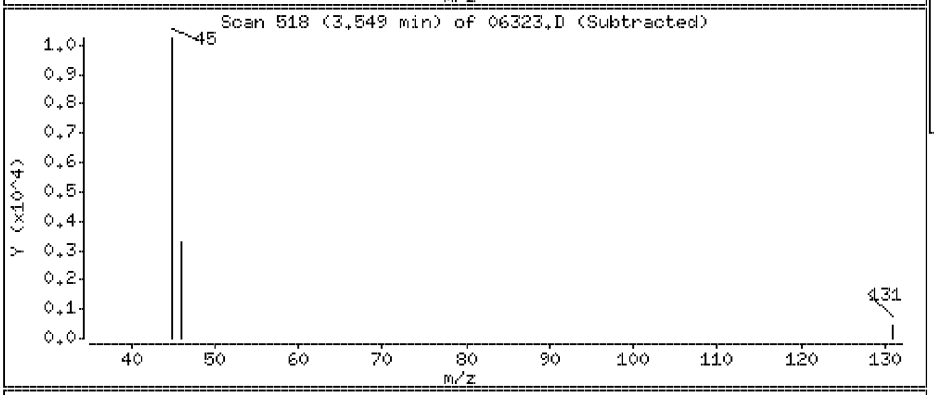
Column diameter: 0.32

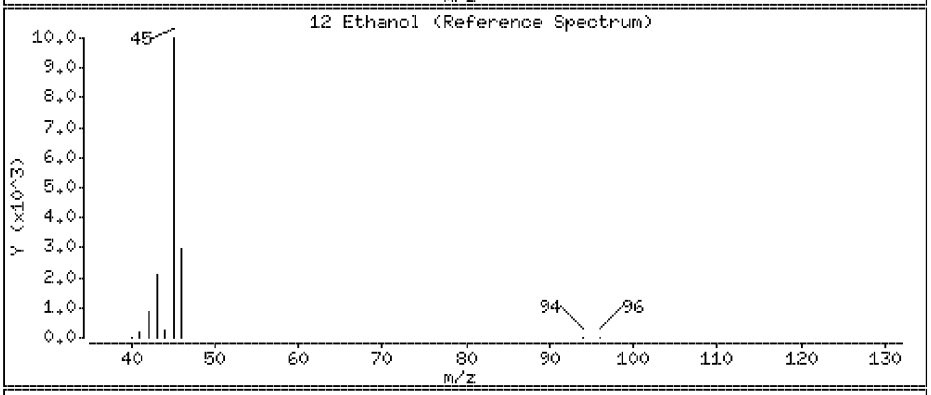
12 Ethanol

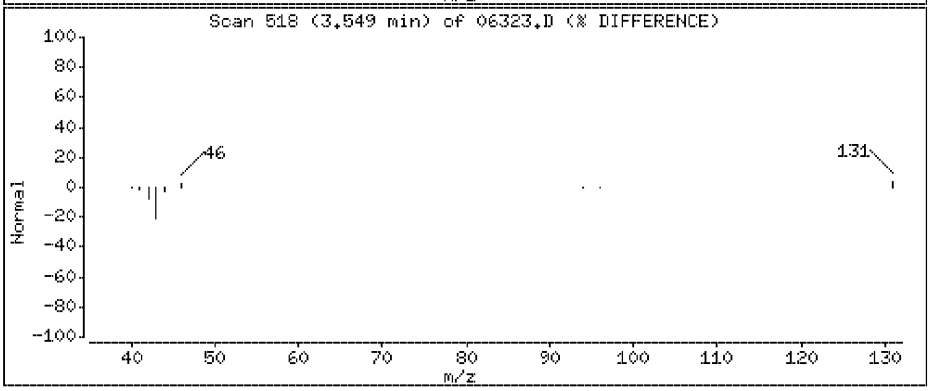
Concentration: 5.26 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

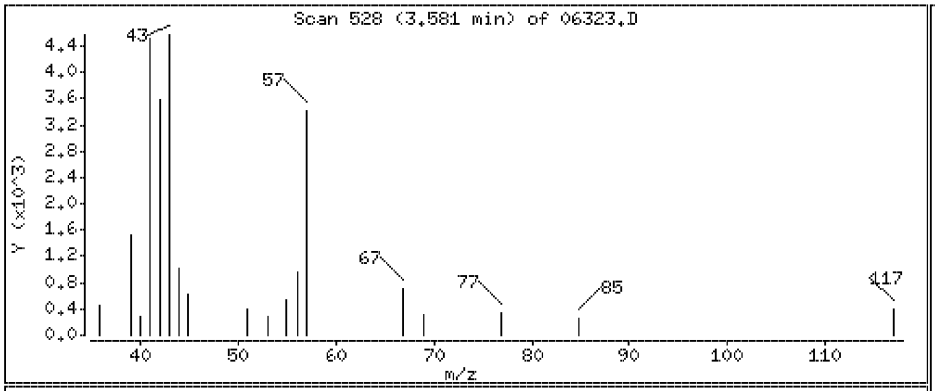
Operator: MJL

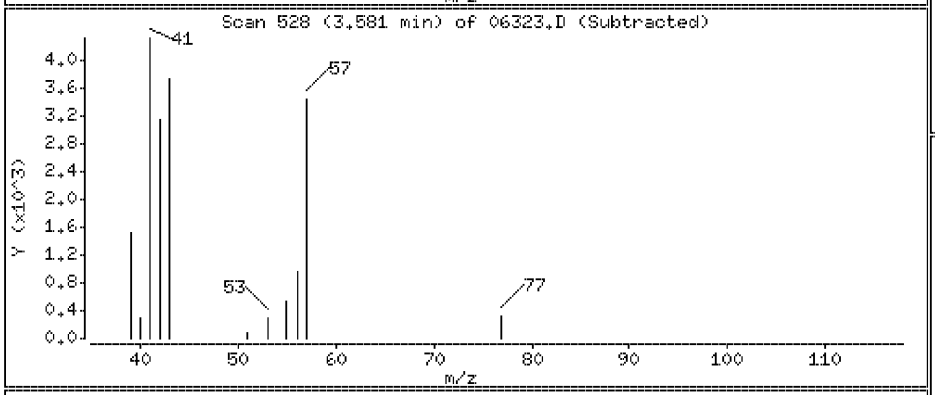
Column phase: J&W DB-5

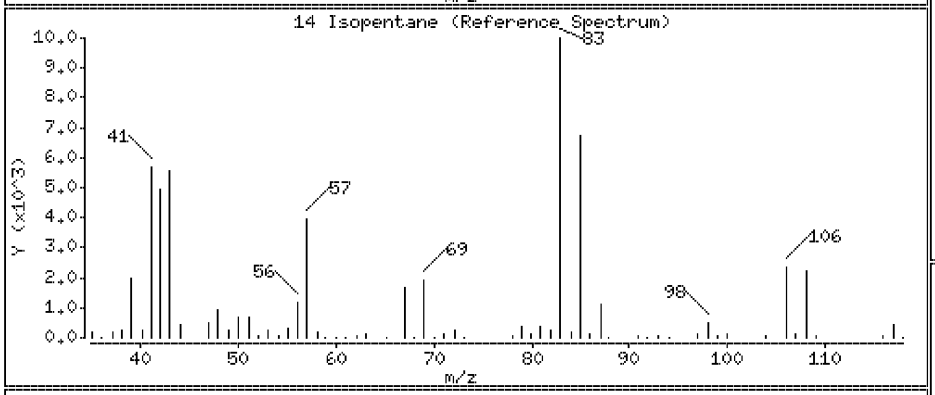
Column diameter: 0.32

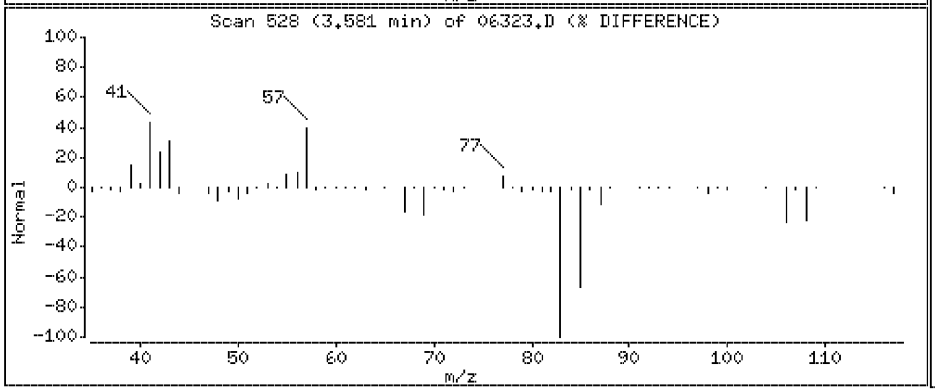
14 Isopentane

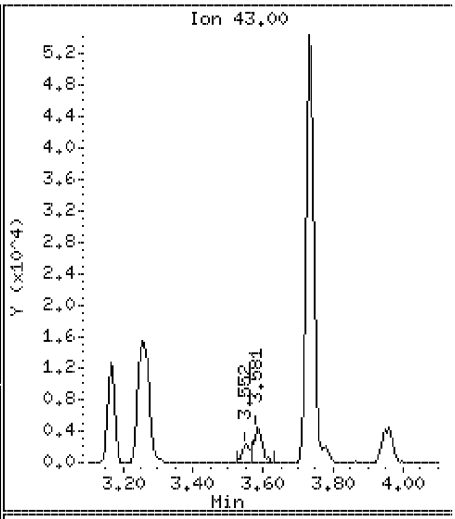
Concentration: 0.746 ppbv

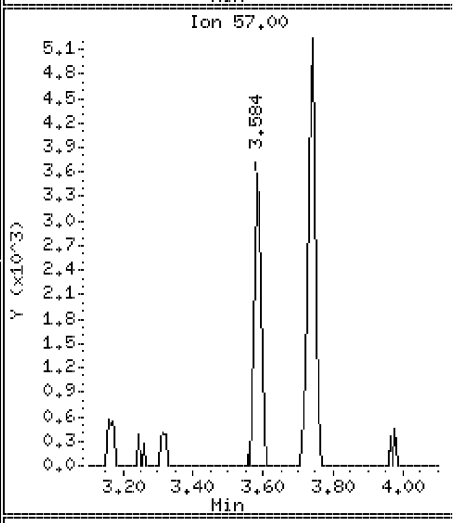


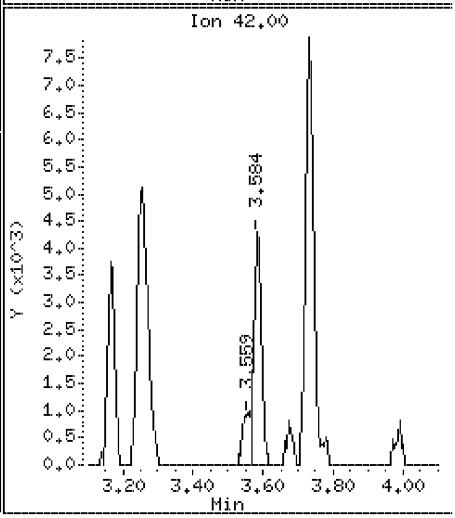












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

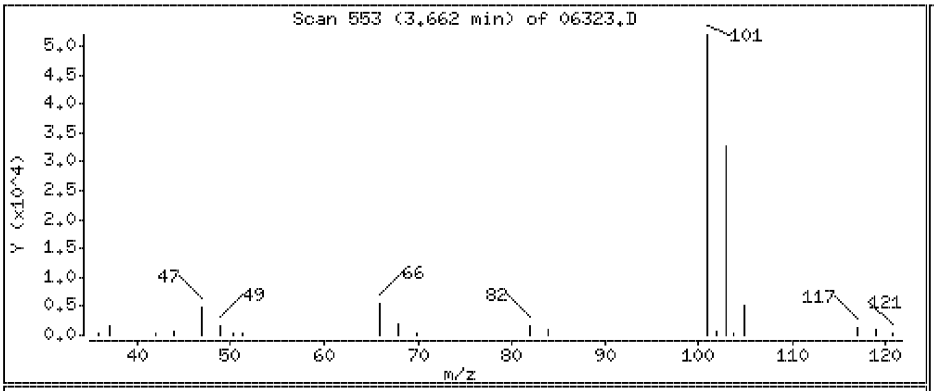
Operator: MJL

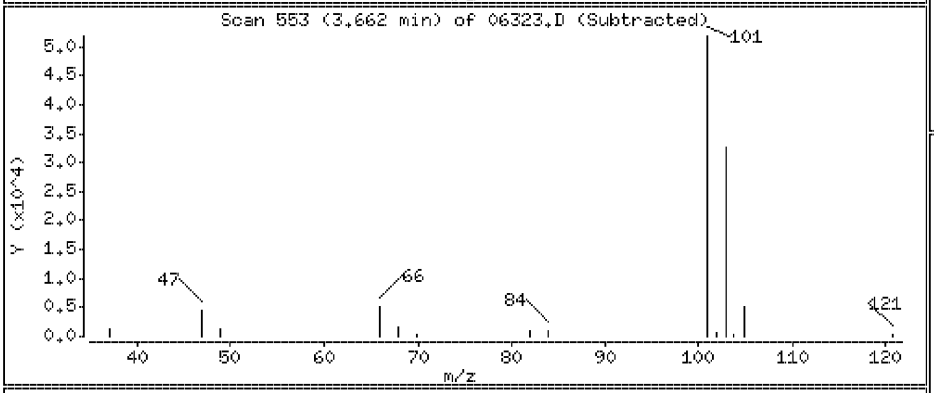
Column phase: J&W DB-5

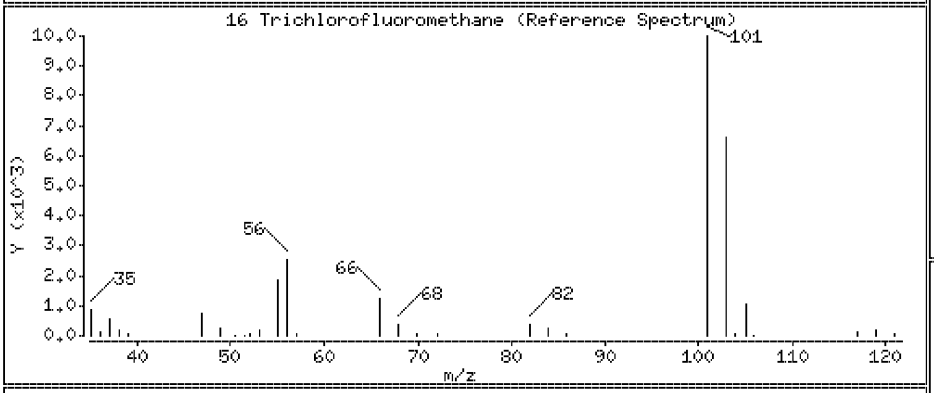
Column diameter: 0.32

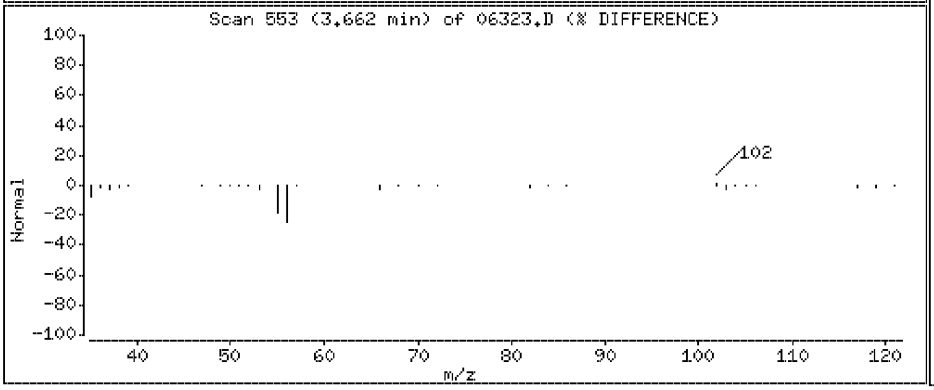
16 Trichlorofluoromethane

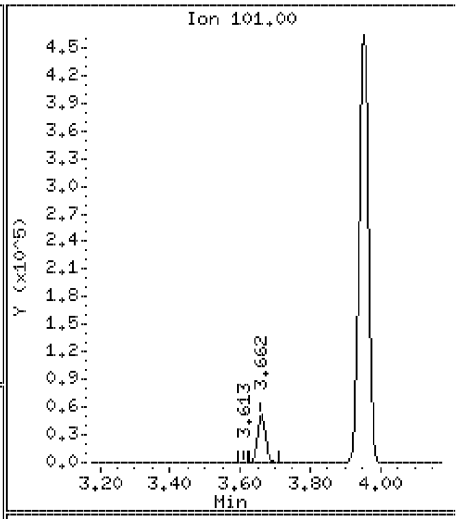
Concentration: 3.72 ppbv

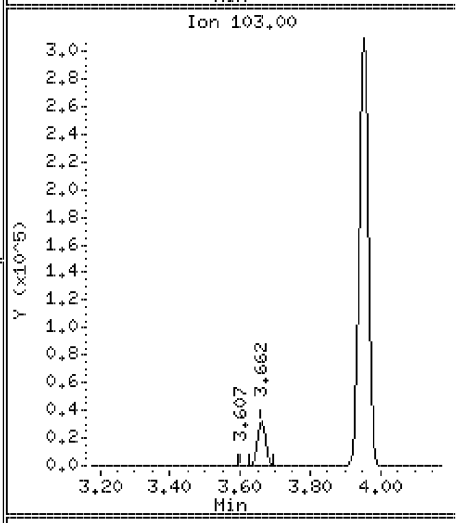


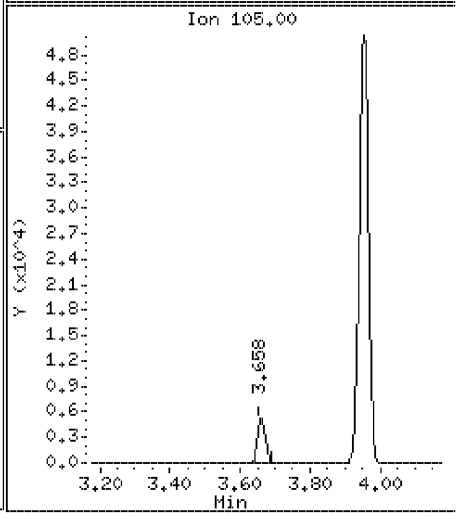












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

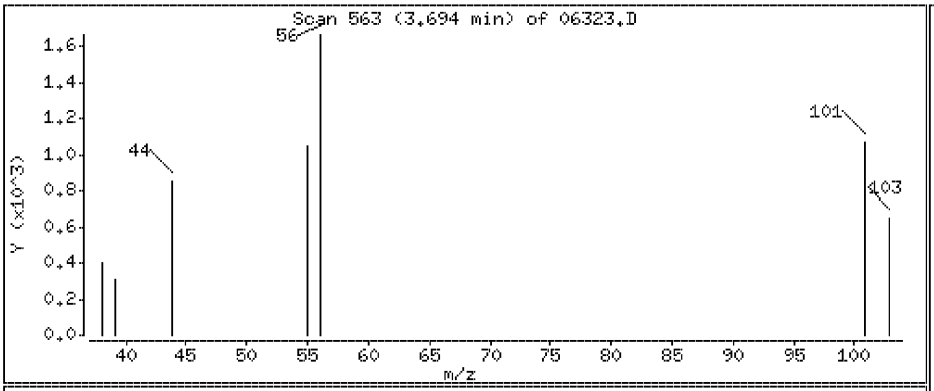
Operator: MJL

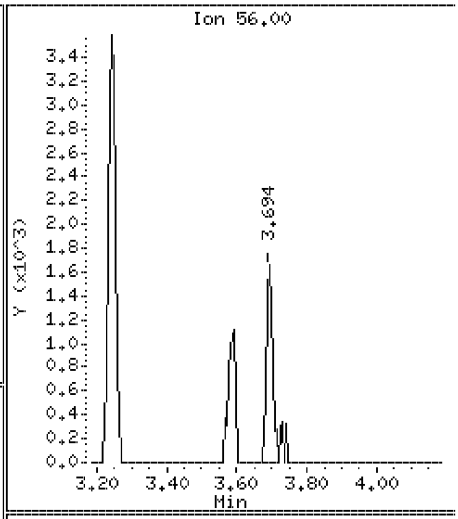
Column phase: J&W DB-5

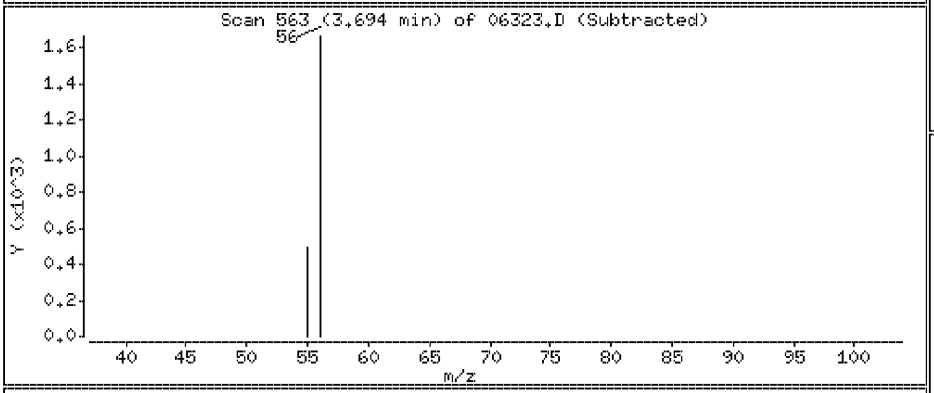
Column diameter: 0.32

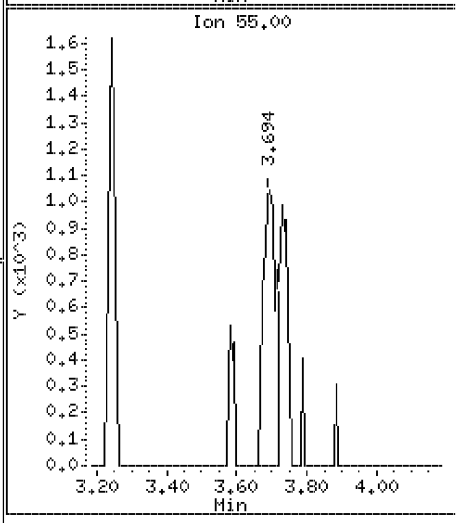
17 Acrolein

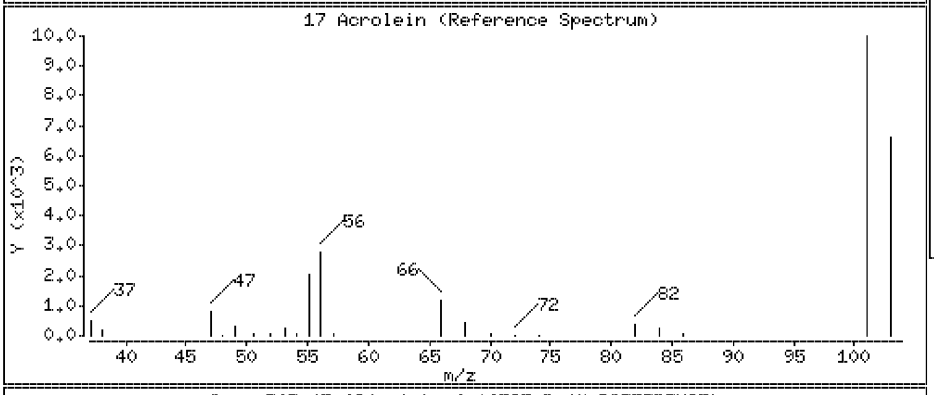
Concentration: 0.994 ppbv

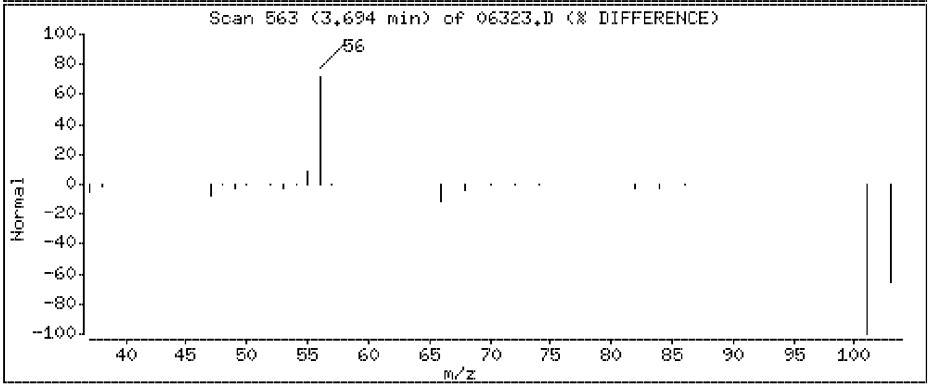












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

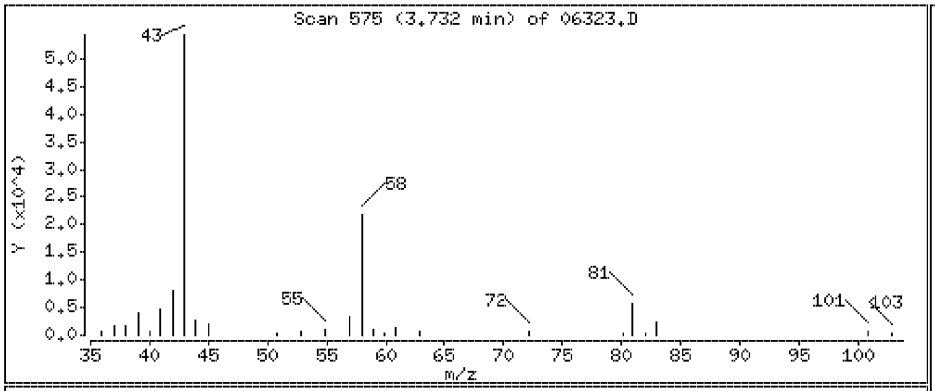
Operator: MJL

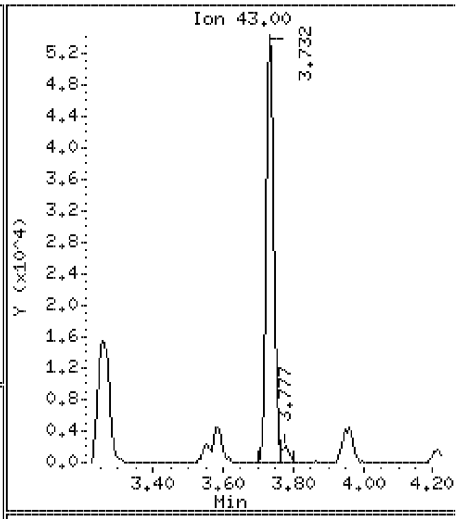
Column phase: J&W DB-5

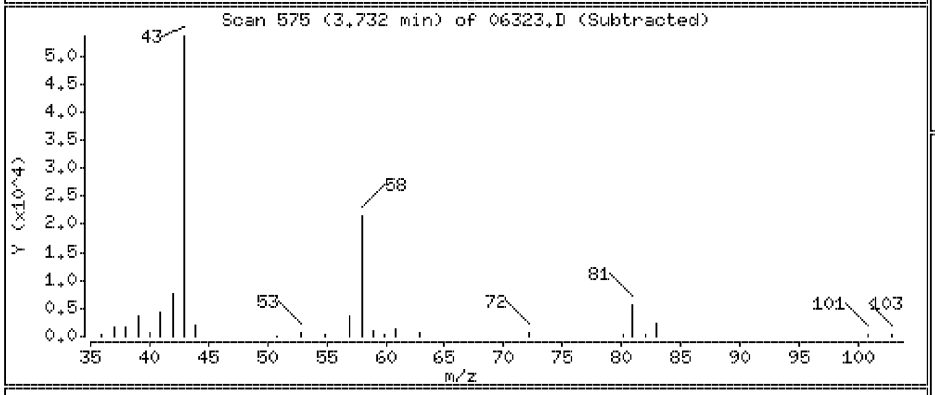
Column diameter: 0.32

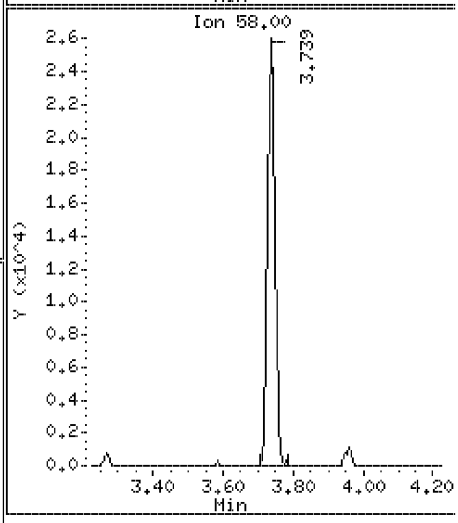
18 Acetone

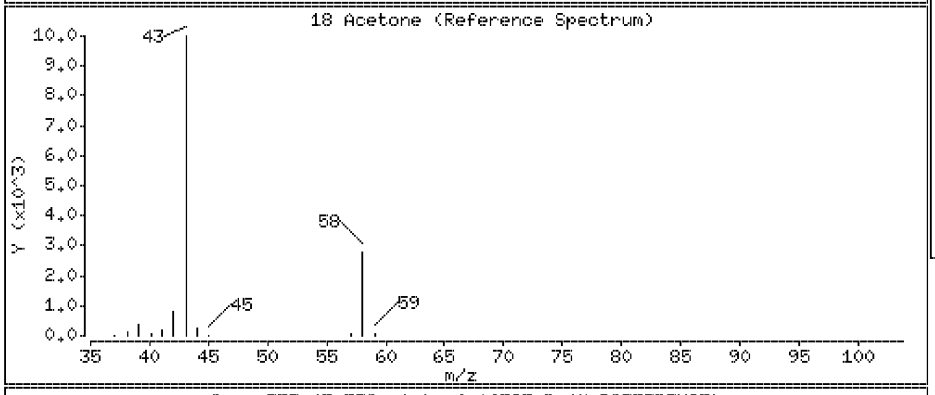
Concentration: 6.28 ppbv

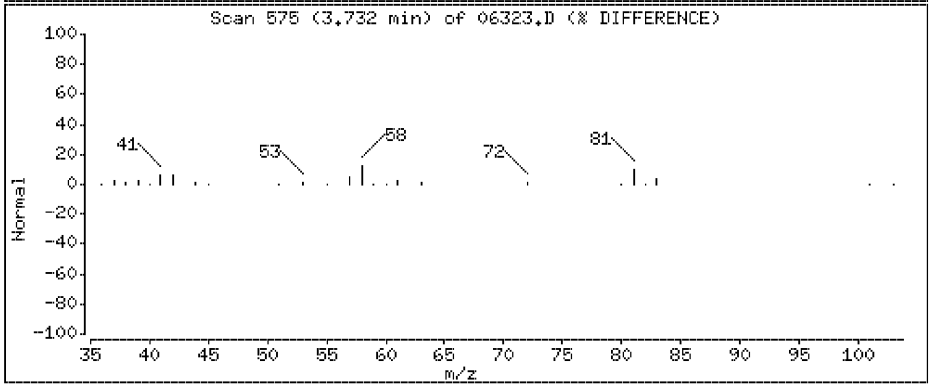












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

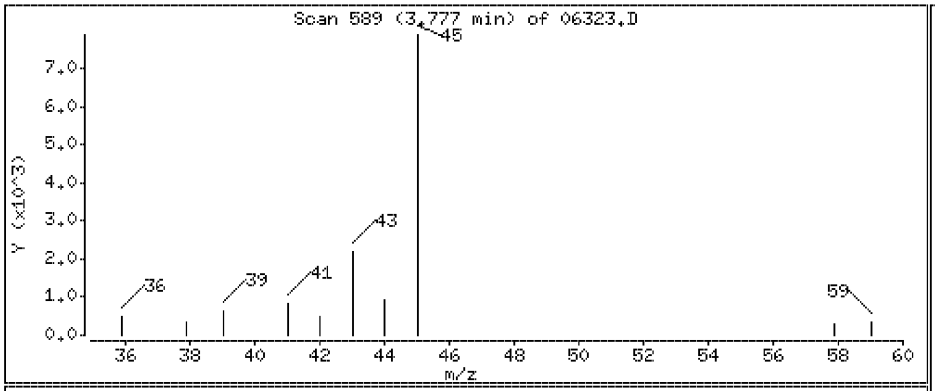
Operator: MJL

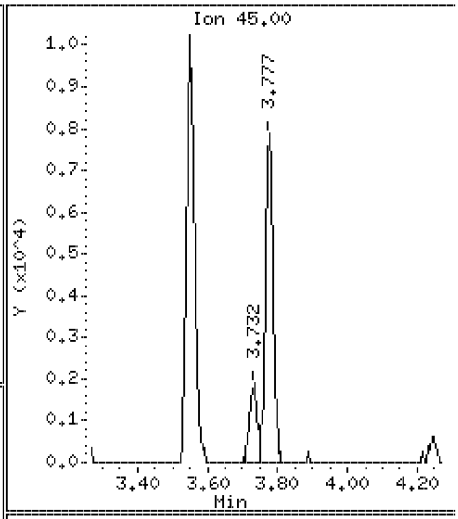
Column phase: J&W DB-5

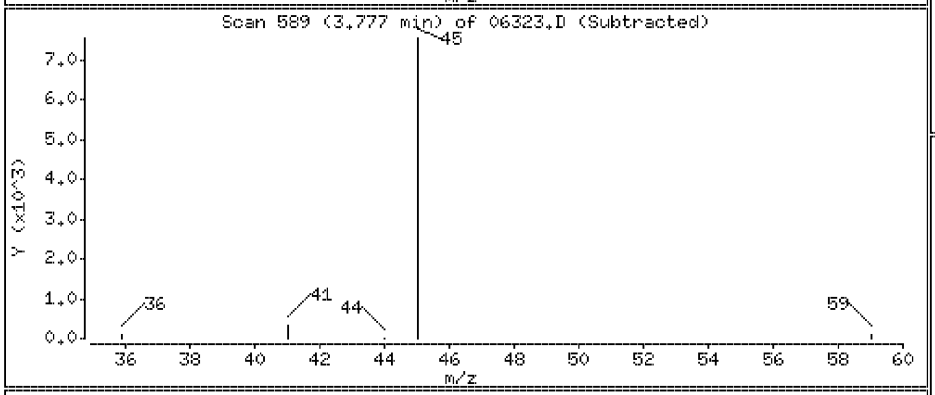
Column diameter: 0.32

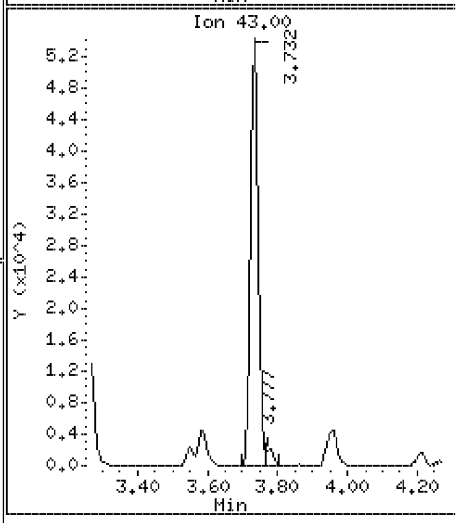
19 Isopropyl Alcohol

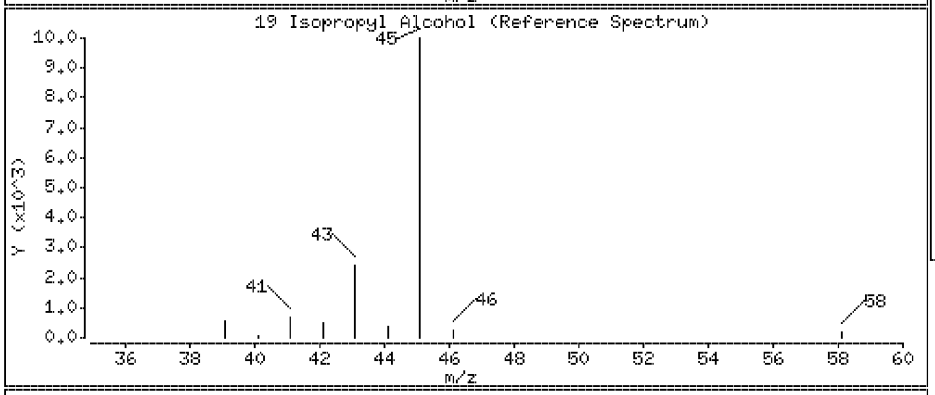
Concentration: 0.888 ppbv

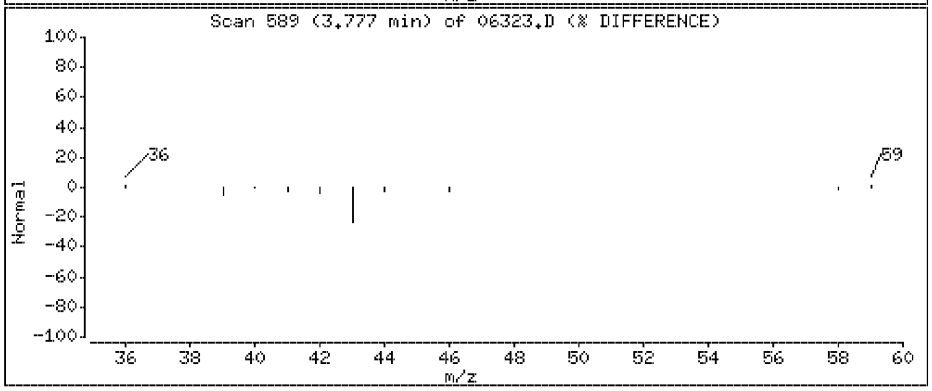












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

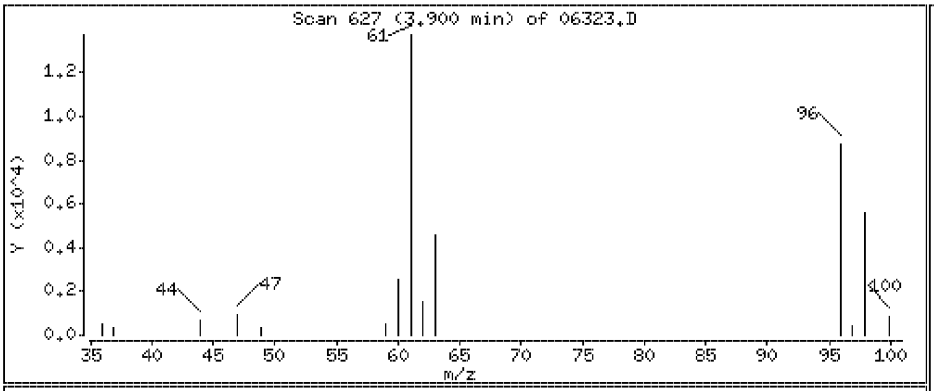
Operator: MJL

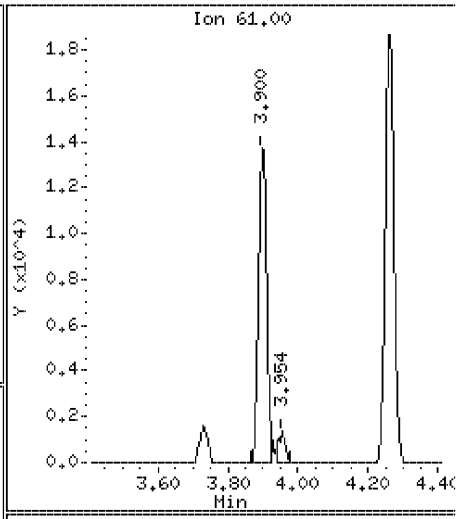
Column phase: J&W DB-5

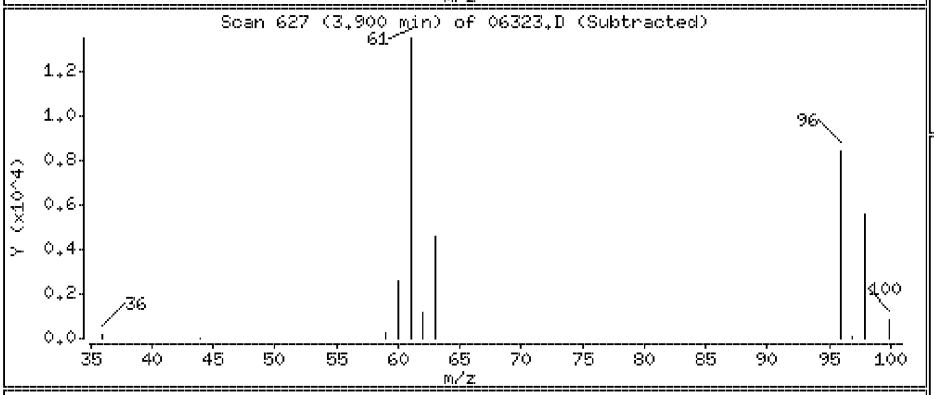
Column diameter: 0.32

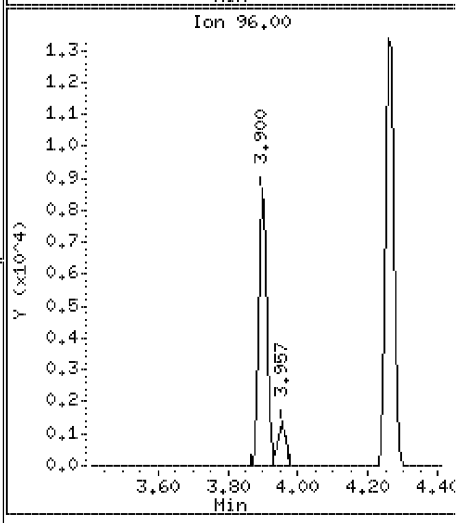
20 1,1-Dichloroethene

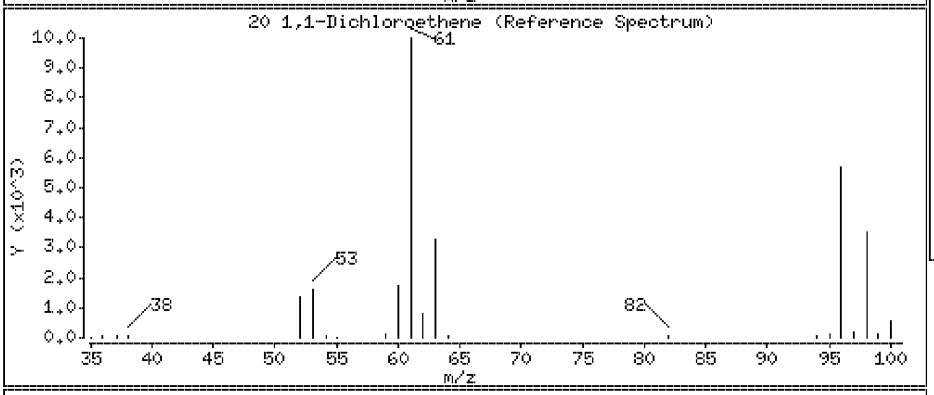
Concentration: 1.74 ppbv

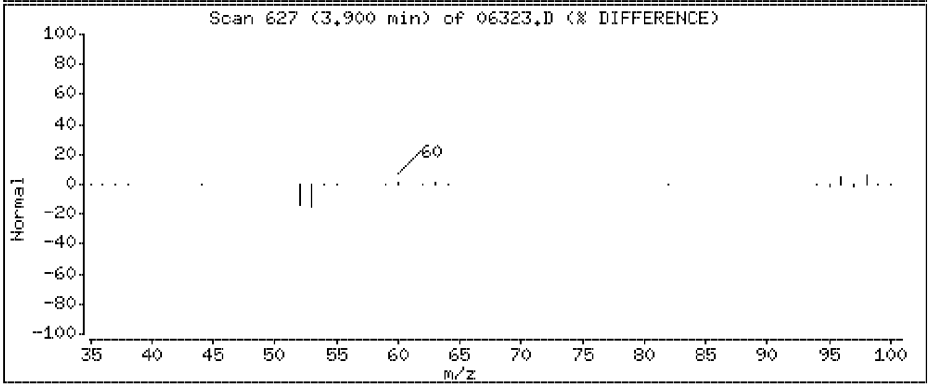












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

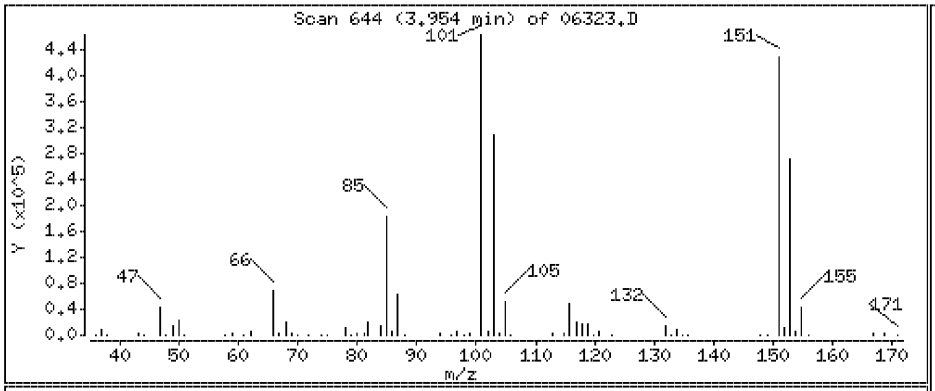
Operator: MJL

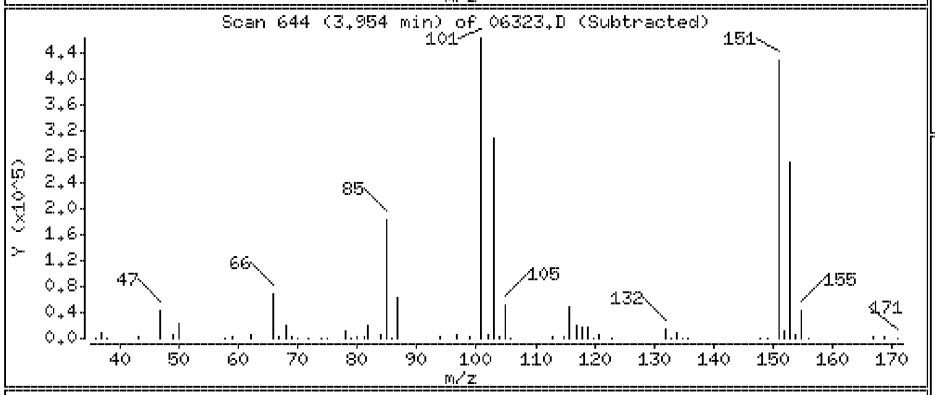
Column phase: J&W DB-5

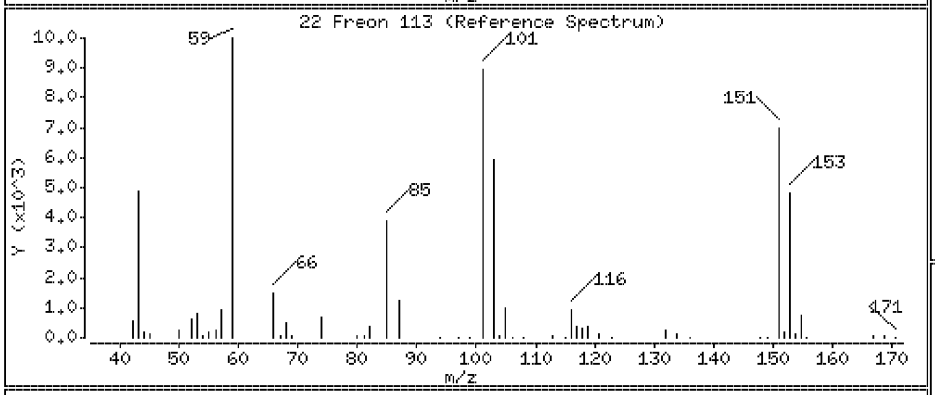
Column diameter: 0.32

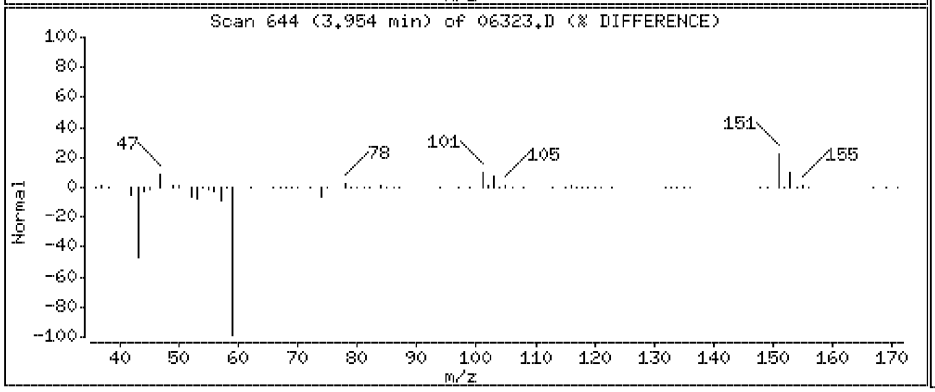
22 Freon 113

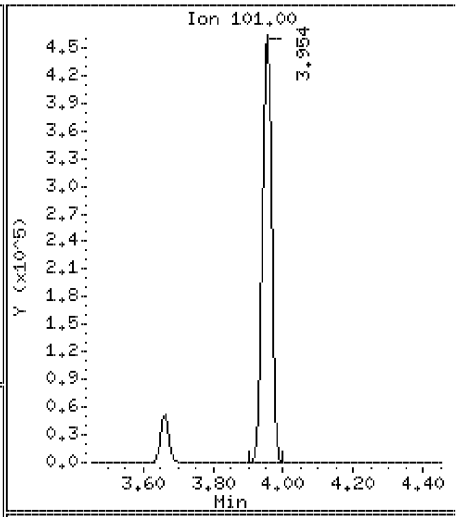
Concentration: 51.7 ppbv

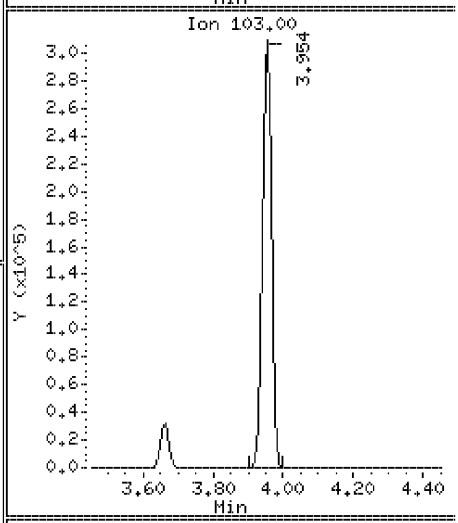


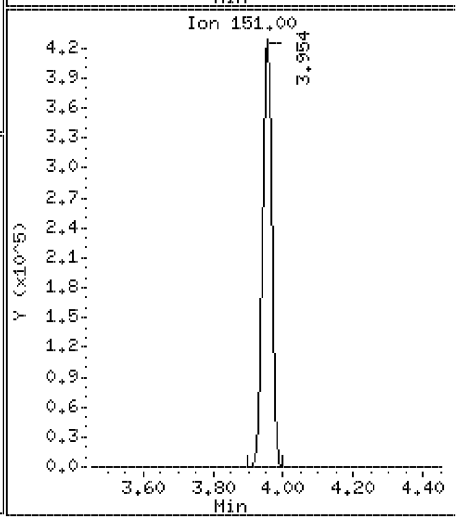












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

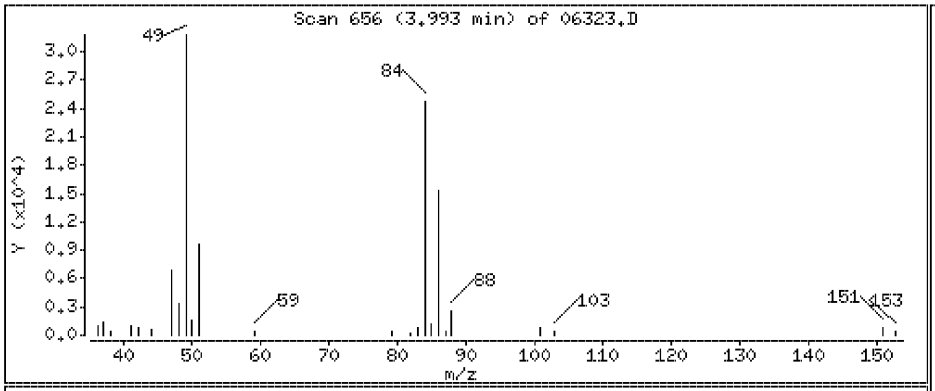
Operator: MJL

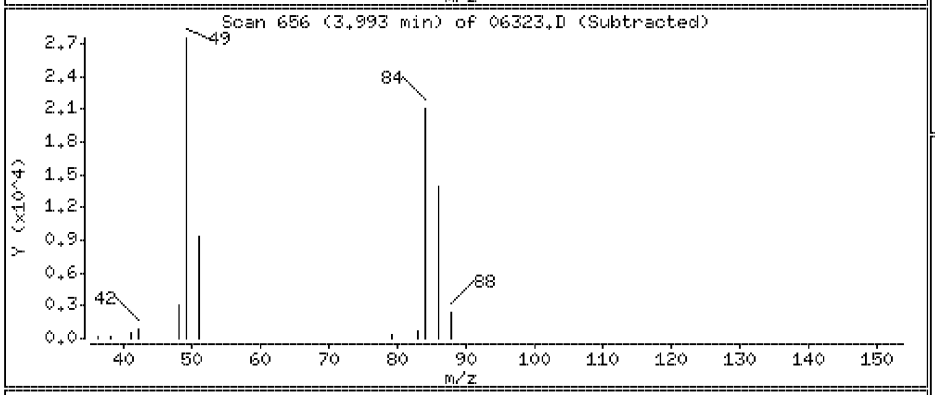
Column phase: J&W DB-5

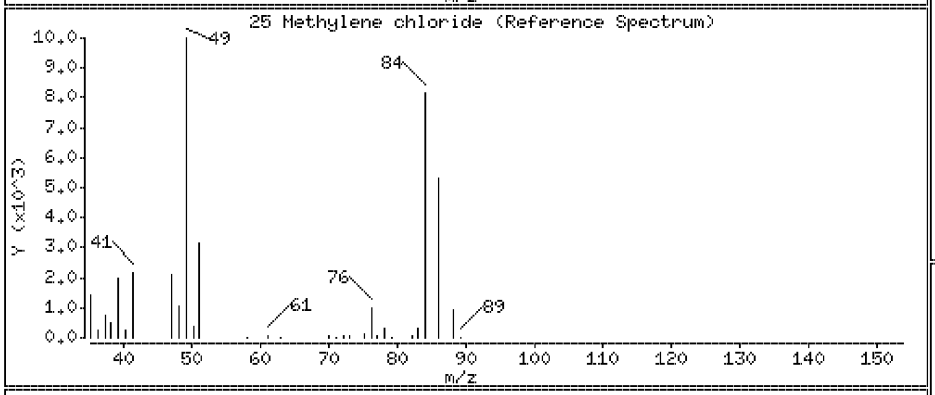
Column diameter: 0.32

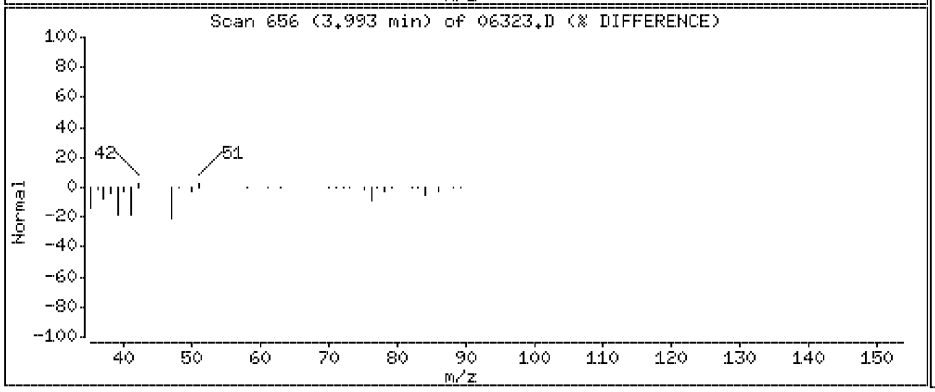
25 Methylene chloride

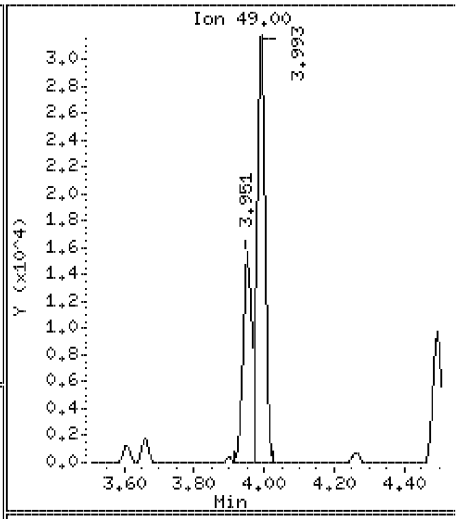
Concentration: 5.67 ppbv

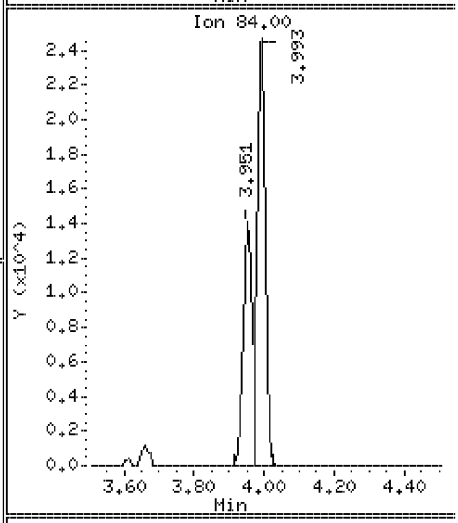


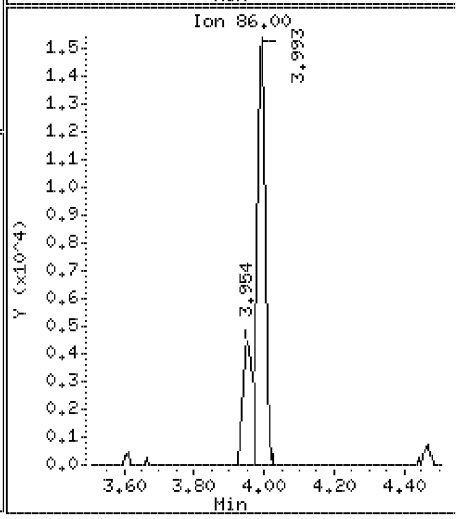












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

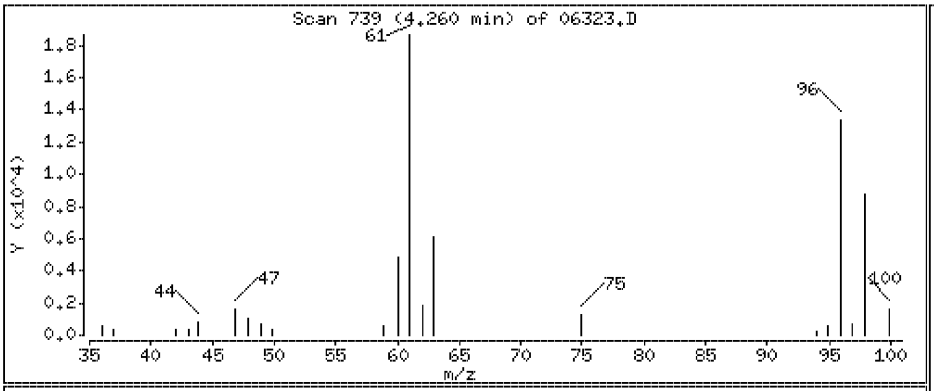
Operator: MJL

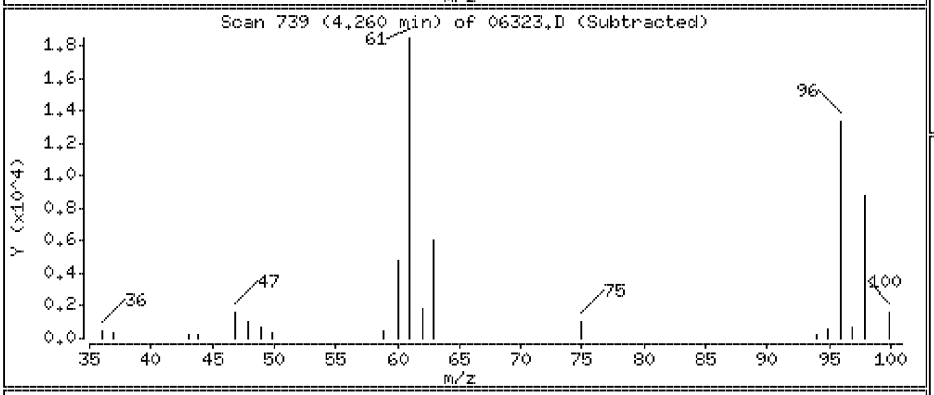
Column phase: J&W DB-5

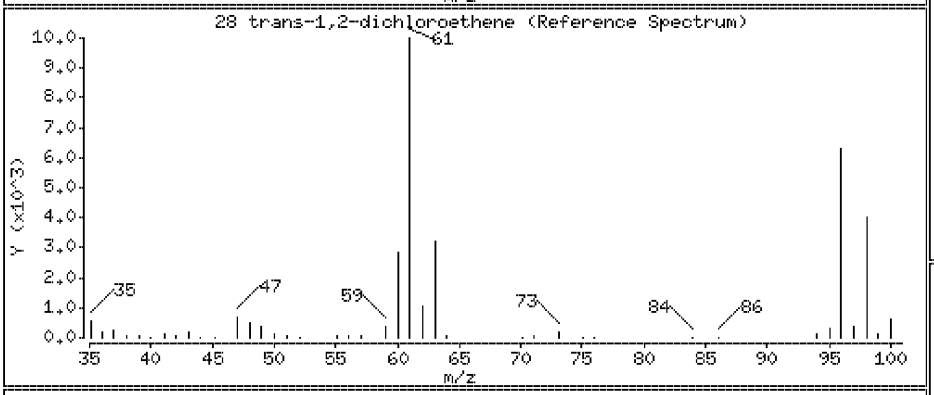
Column diameter: 0.32

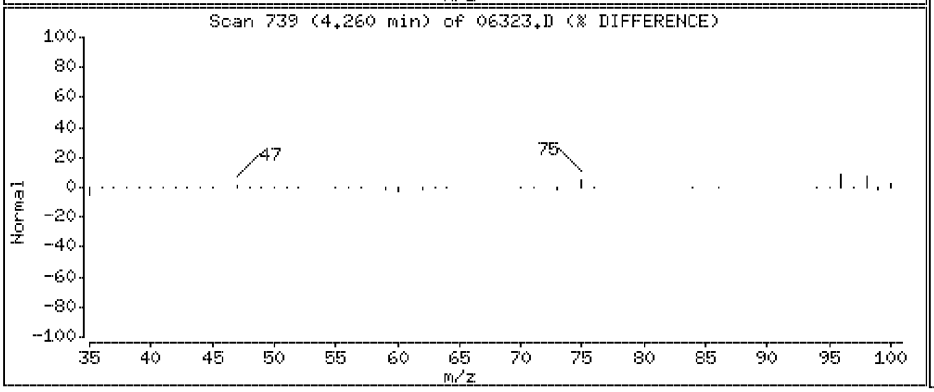
28 trans-1,2-dichloroethene

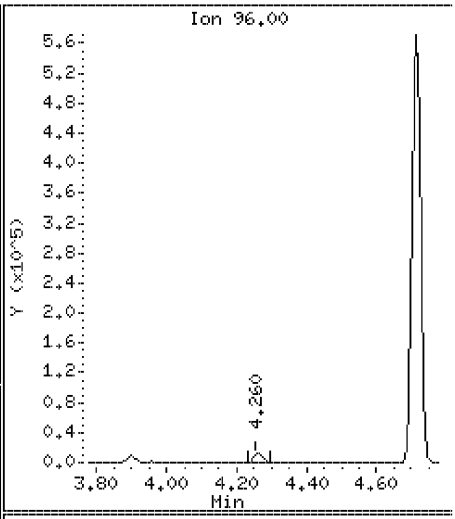
Concentration: 3.09 ppbv

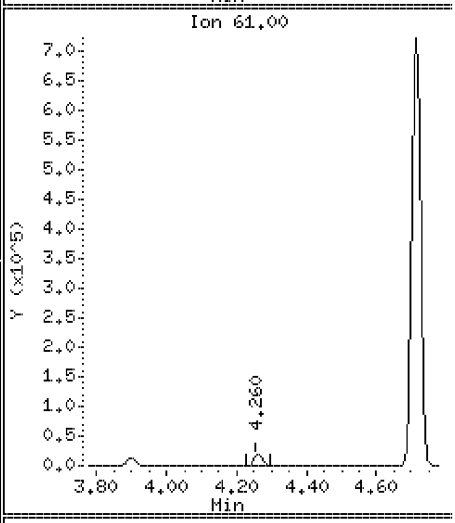


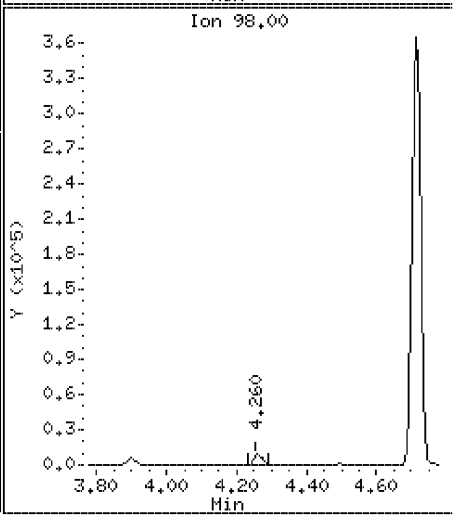












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

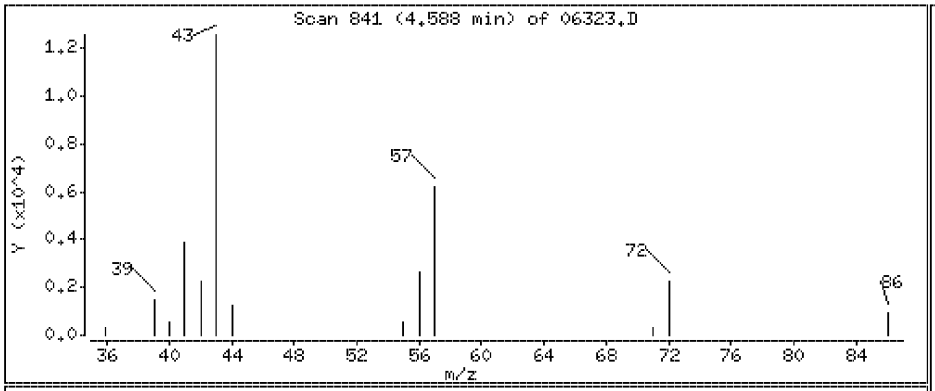
Operator: MJL

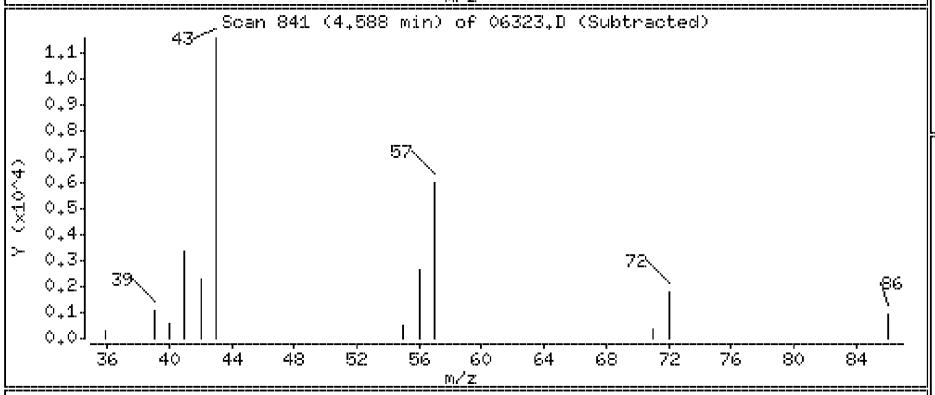
Column phase: J&W DB-5

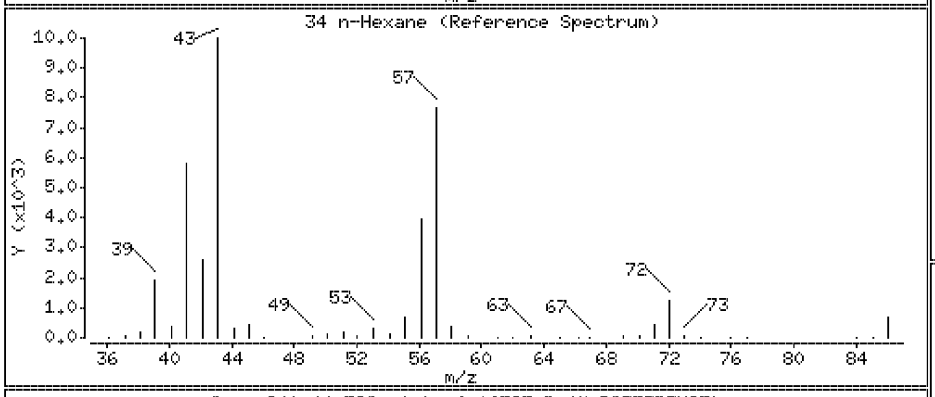
Column diameter: 0.32

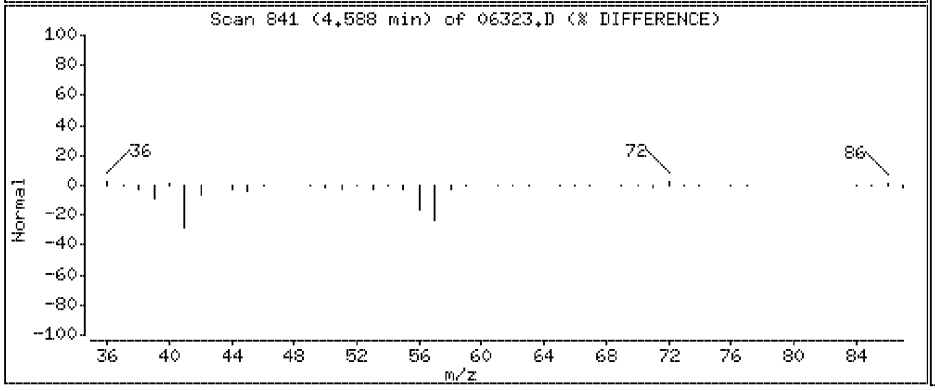
34 n-Hexane

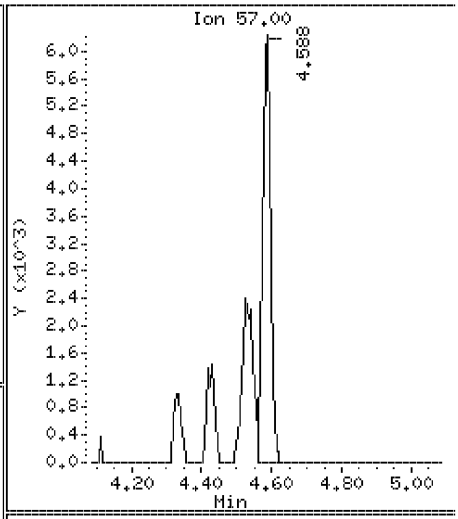
Concentration: 0.767 ppbv

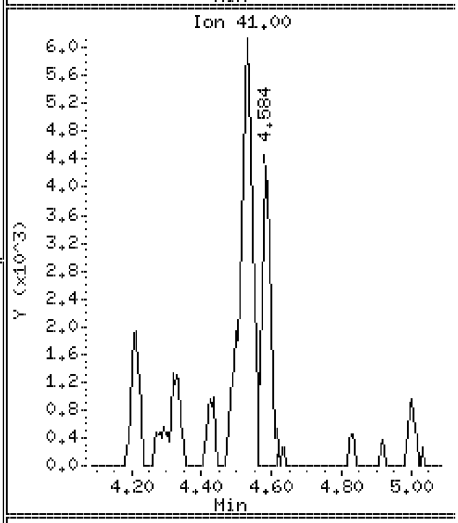


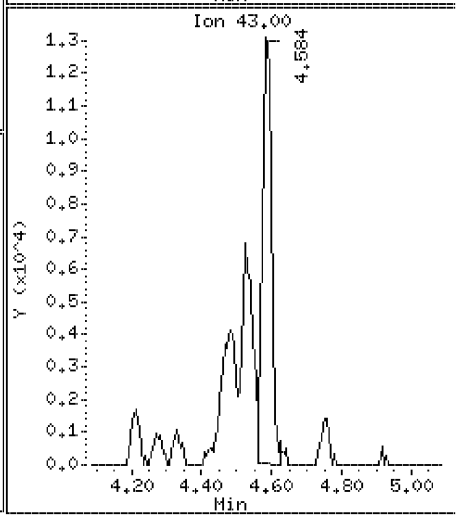












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

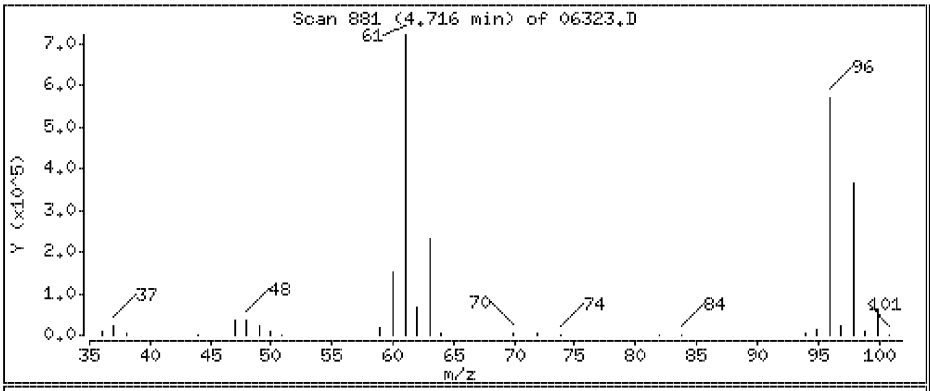
Operator: MJL

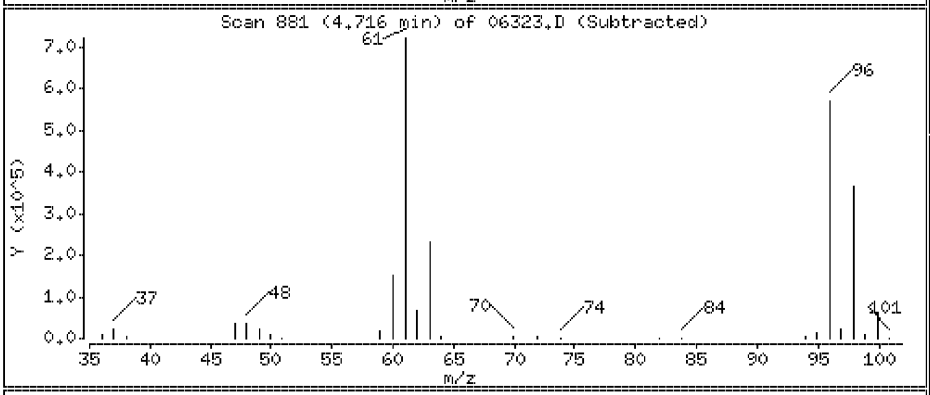
Column phase: J&W DB-5

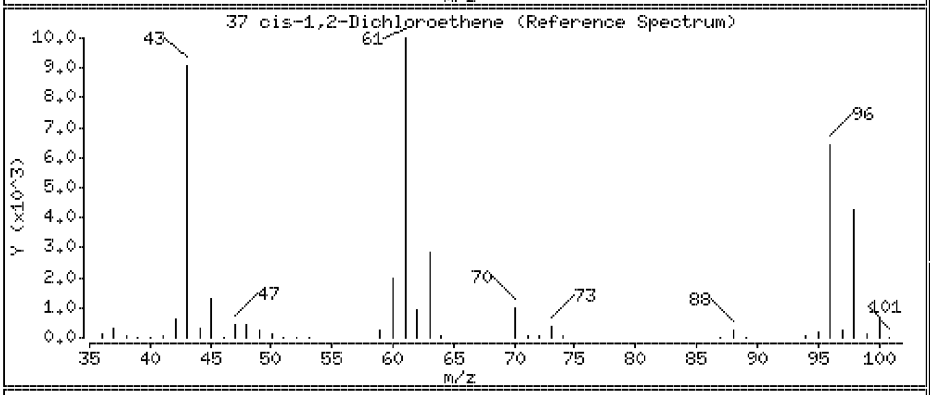
Column diameter: 0.32

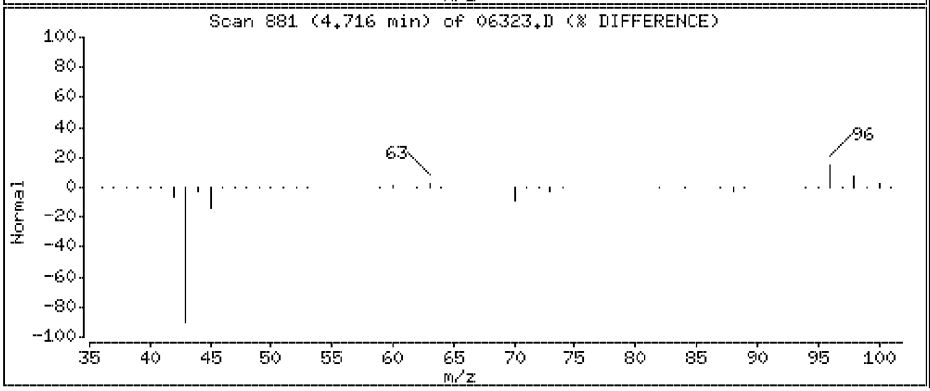
37 cis-1,2-Dichloroethene

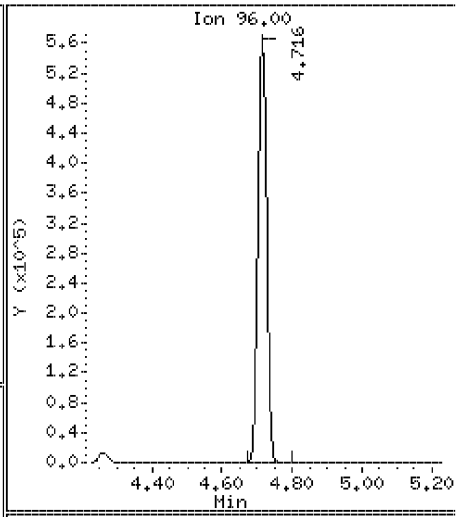
Concentration: 123 ppbv

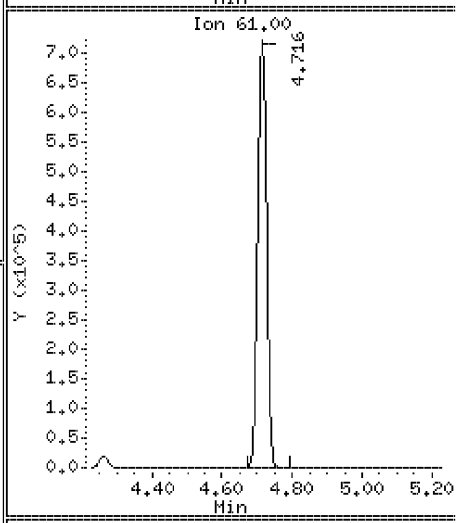


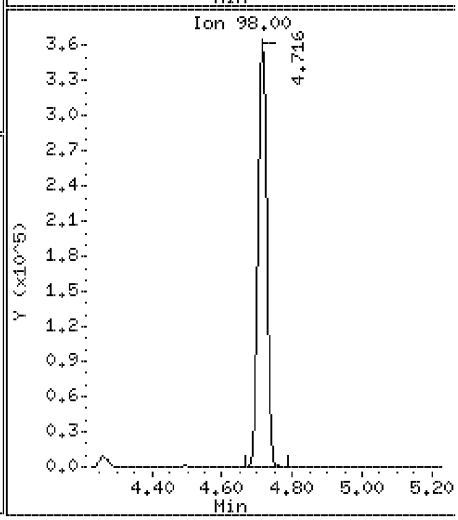












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

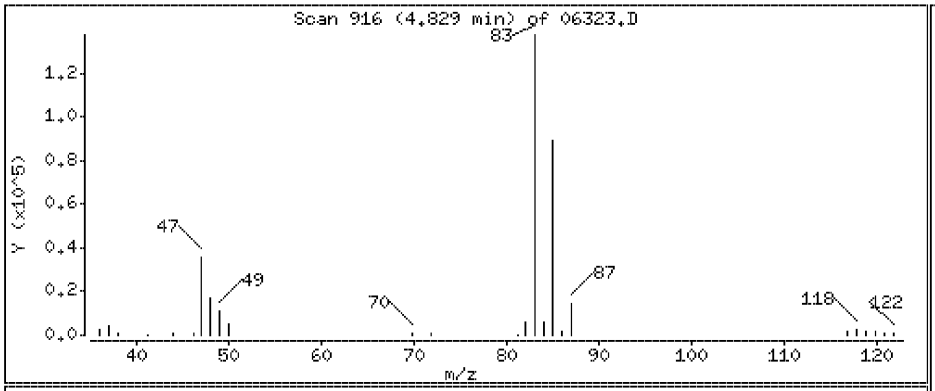
Operator: MJL

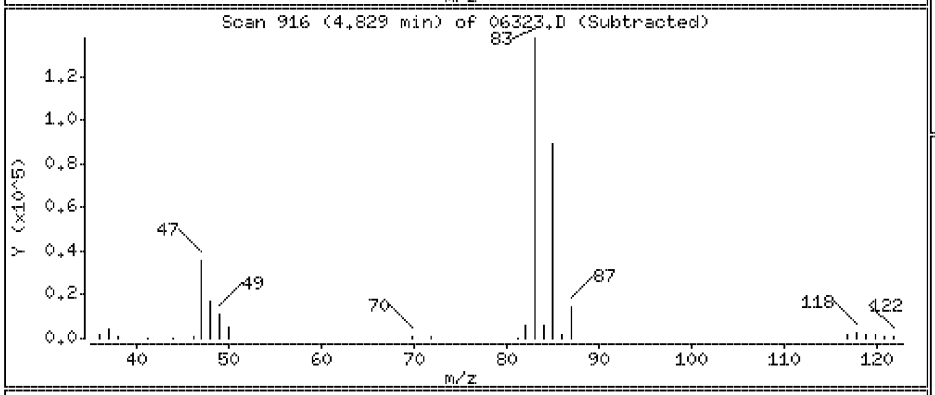
Column phase: J&W DB-5

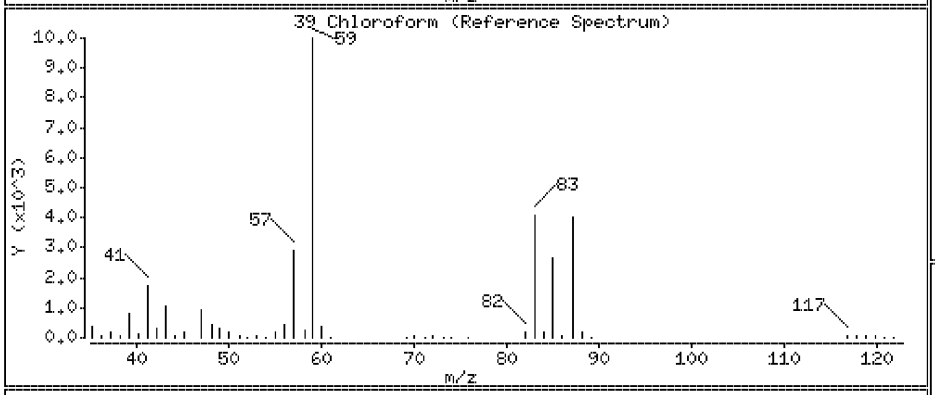
Column diameter: 0.32

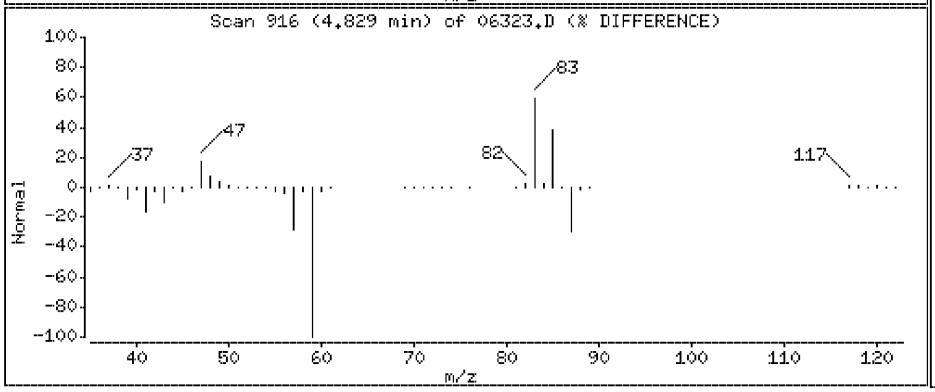
39 Chloroform

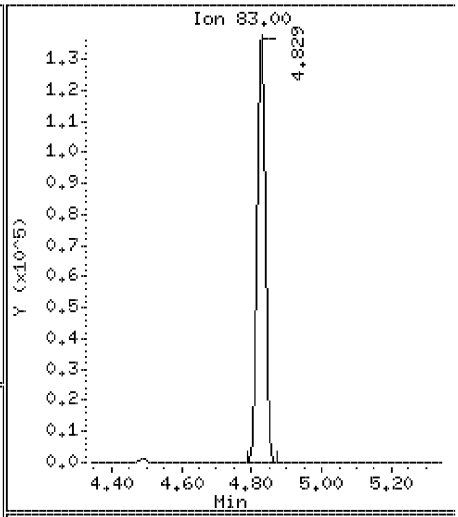
Concentration: 13.5 ppbv

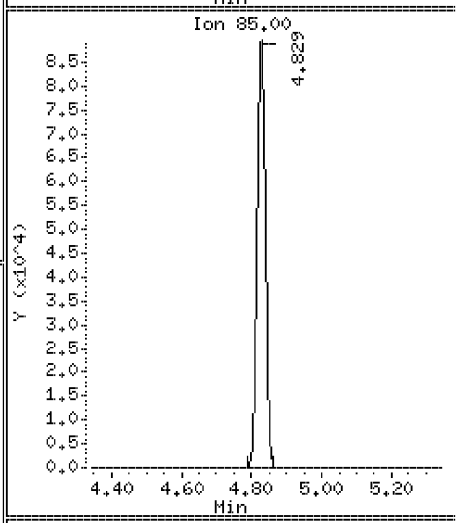


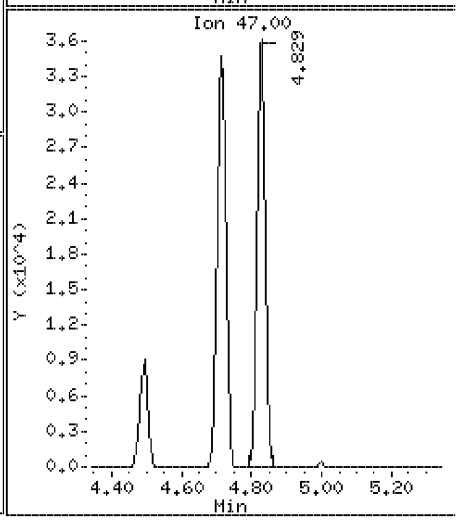












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

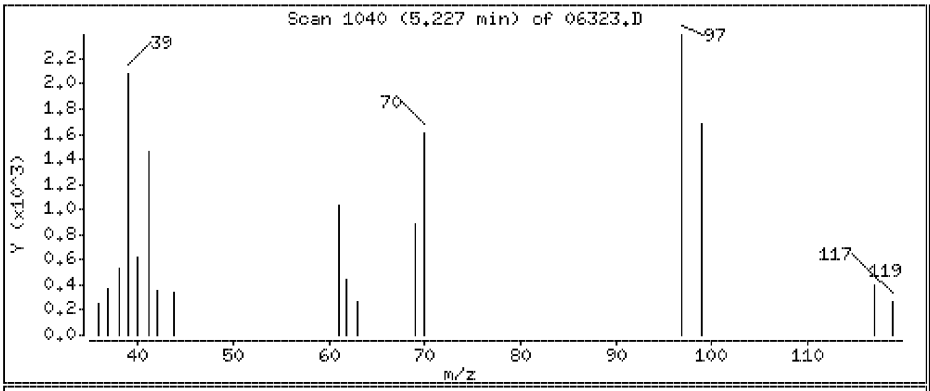
Operator: MJL

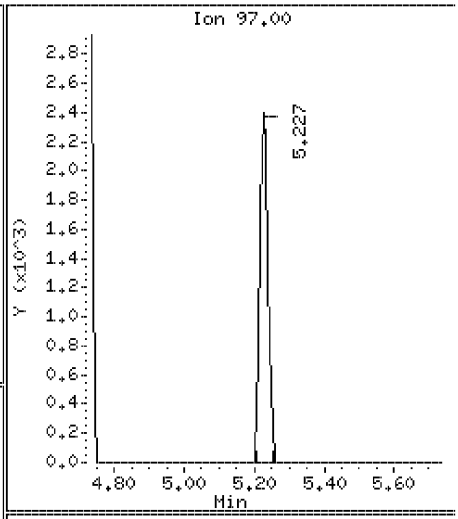
Column phase: J&W DB-5

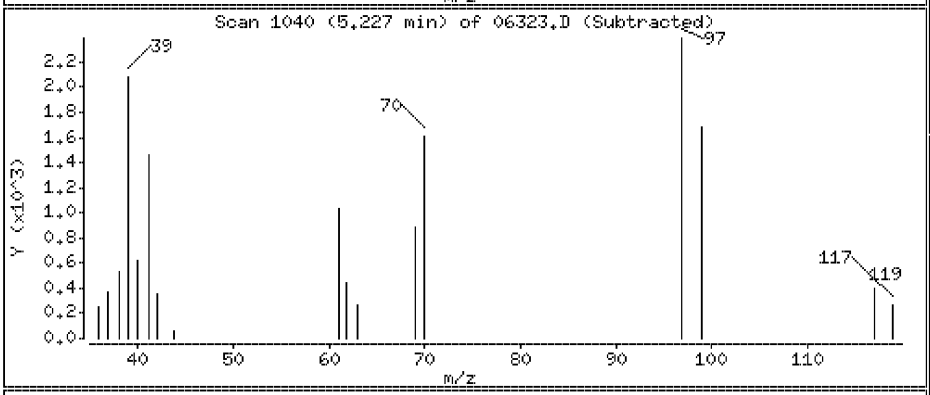
Column diameter: 0.32

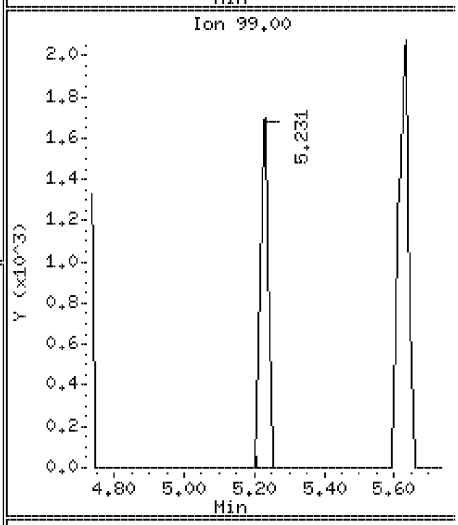
41 1,1,1-Trichloroethane

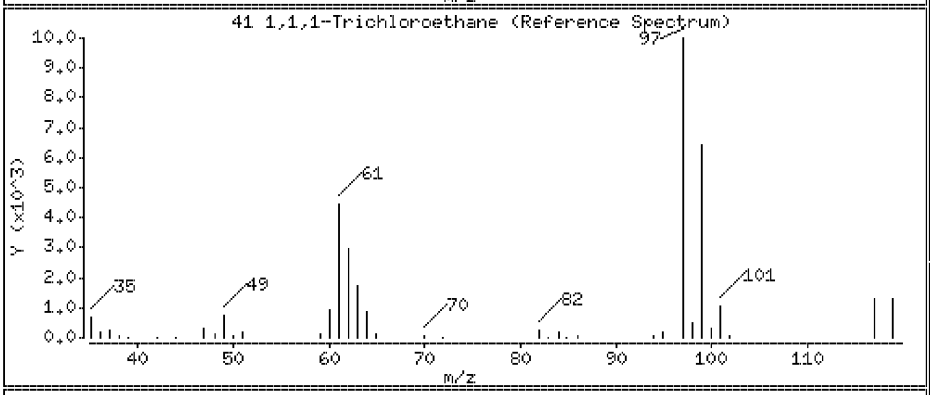
Concentration: 0.185 ppbv

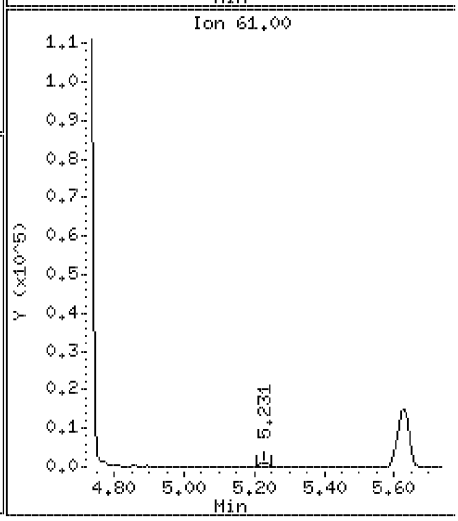


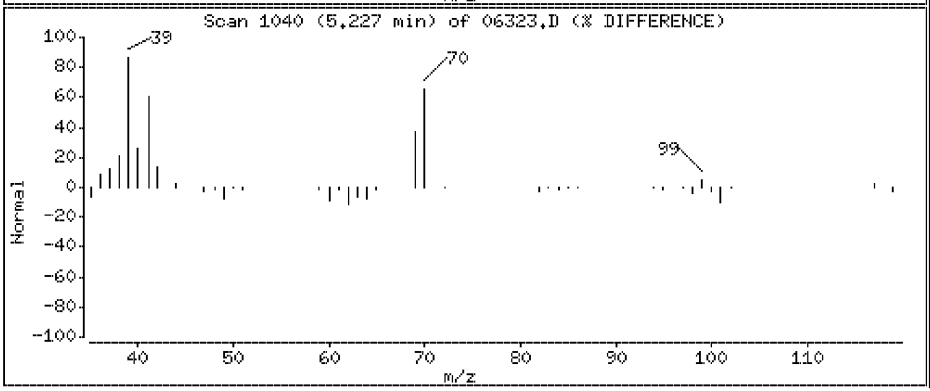












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

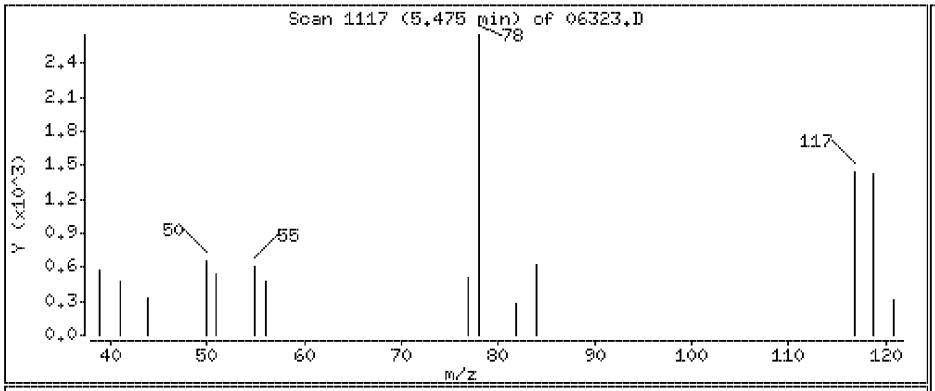
Operator: MJL

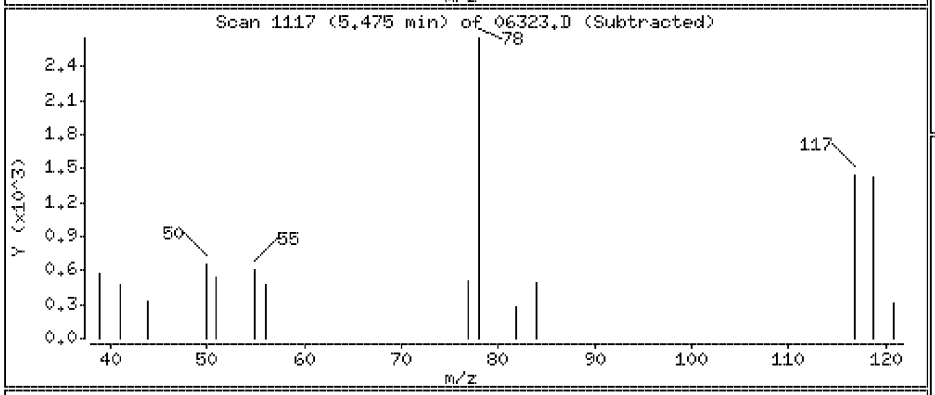
Column phase: J&W DB-5

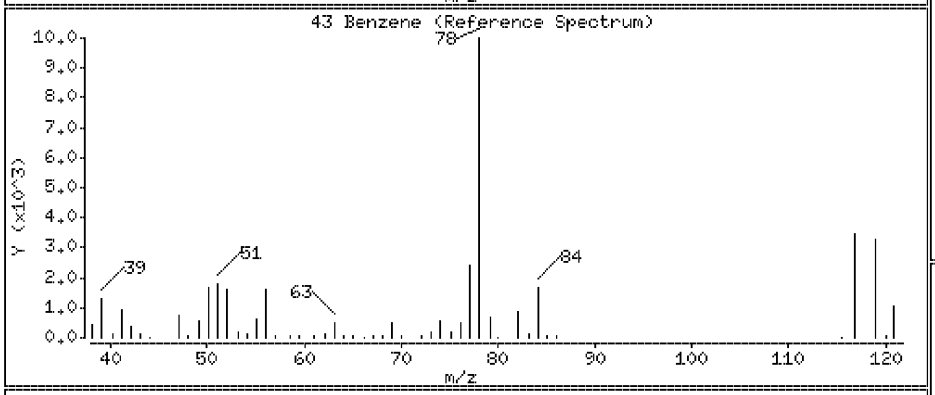
Column diameter: 0.32

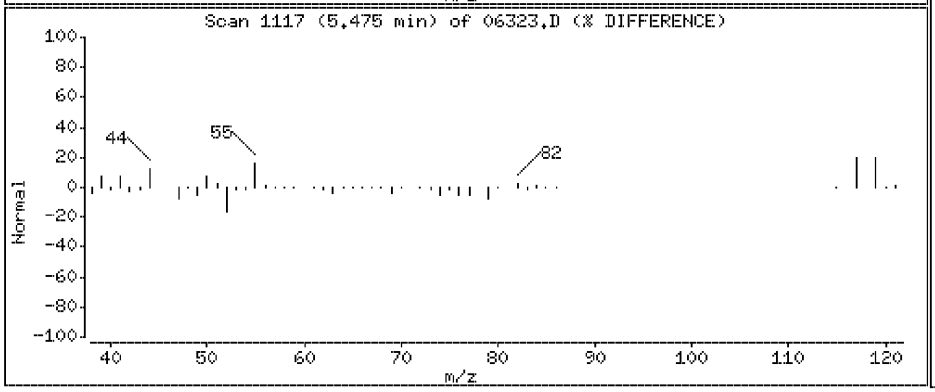
43 Benzene

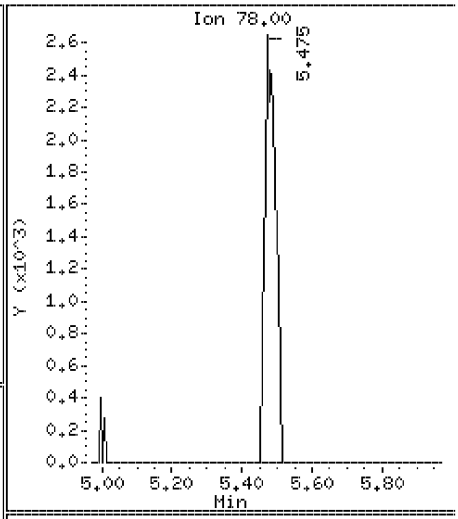
Concentration: 0.220 ppbv

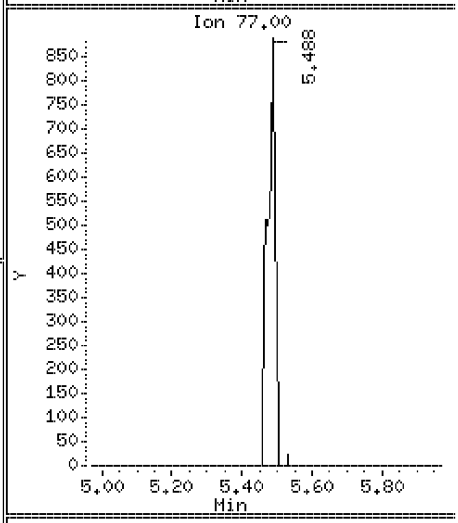


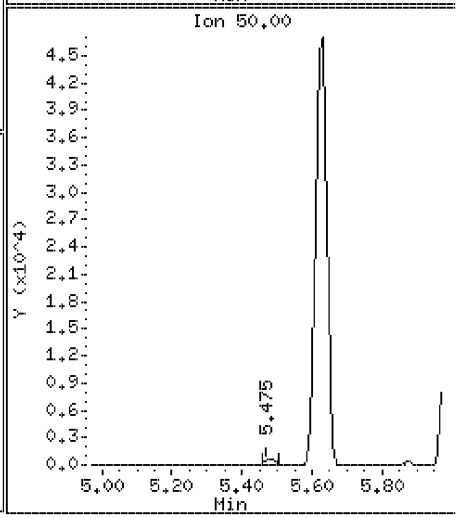












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

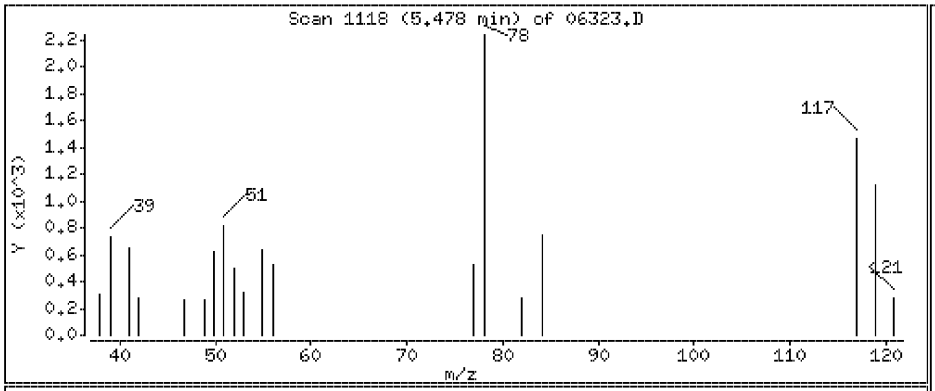
Operator: MJL

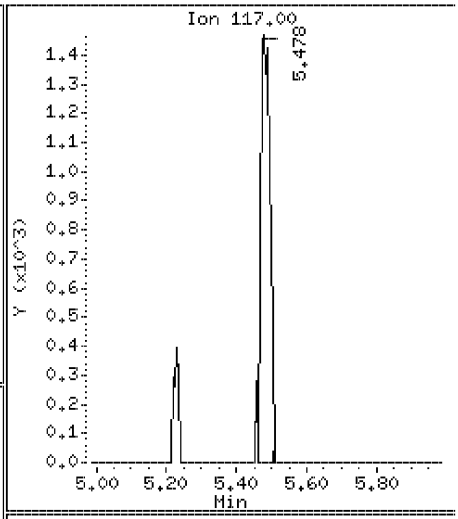
Column phase: J&W DB-5

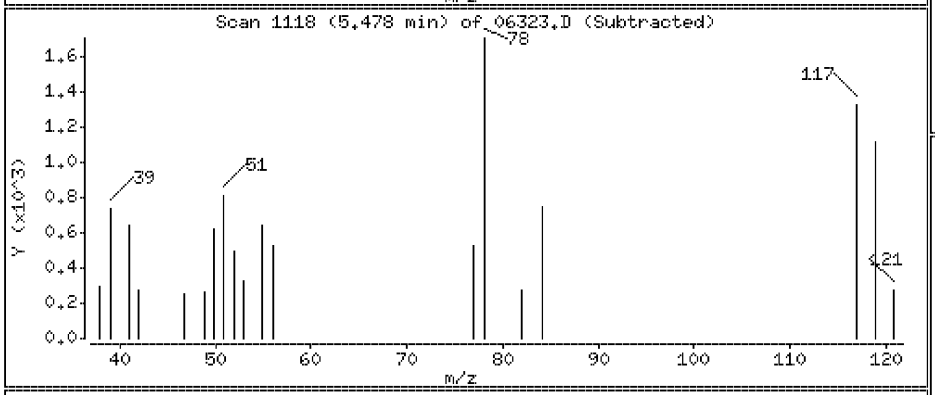
Column diameter: 0.32

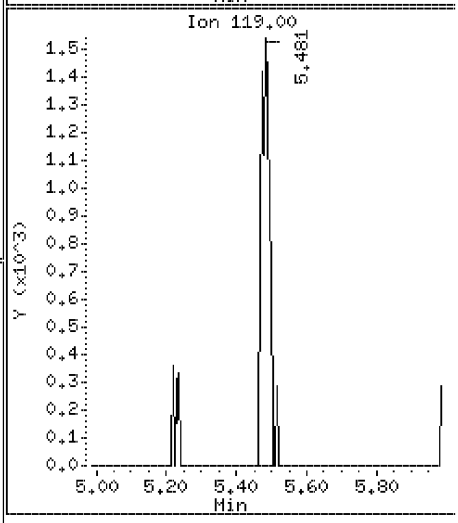
44 Carbon tetrachloride

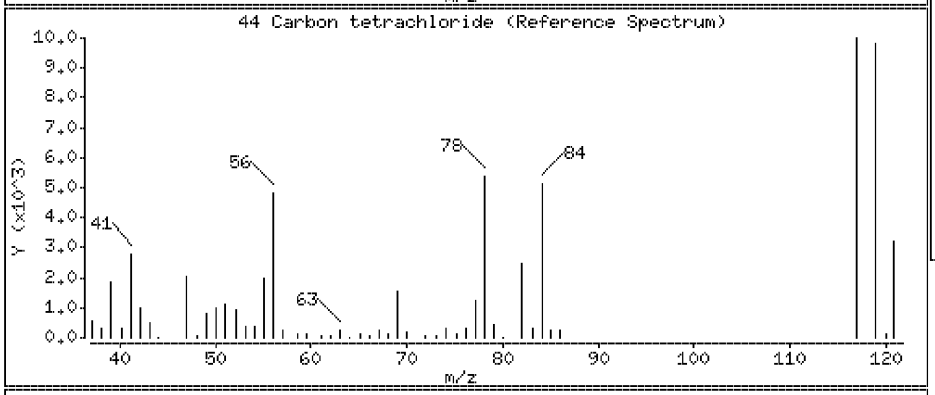
Concentration: 0.130 ppbv

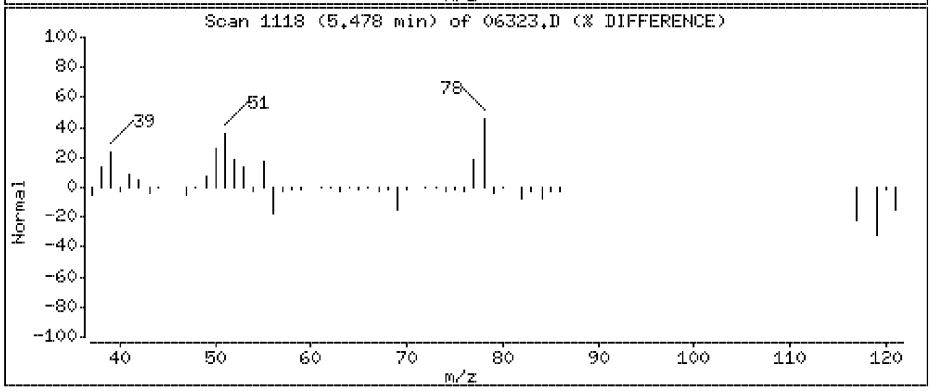












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

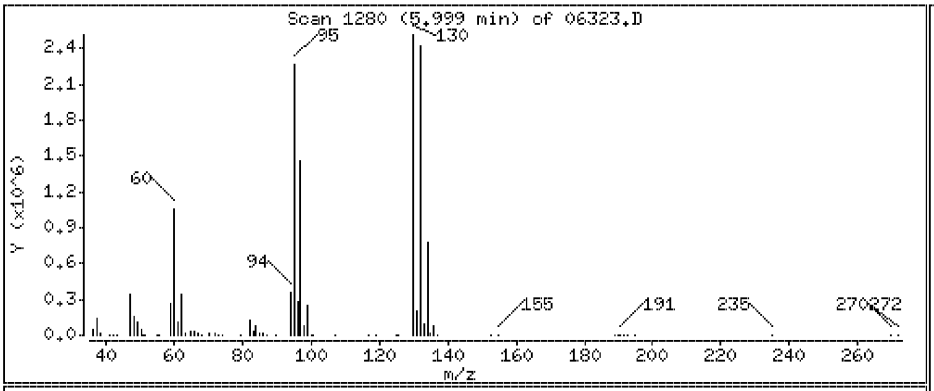
Operator: MJL

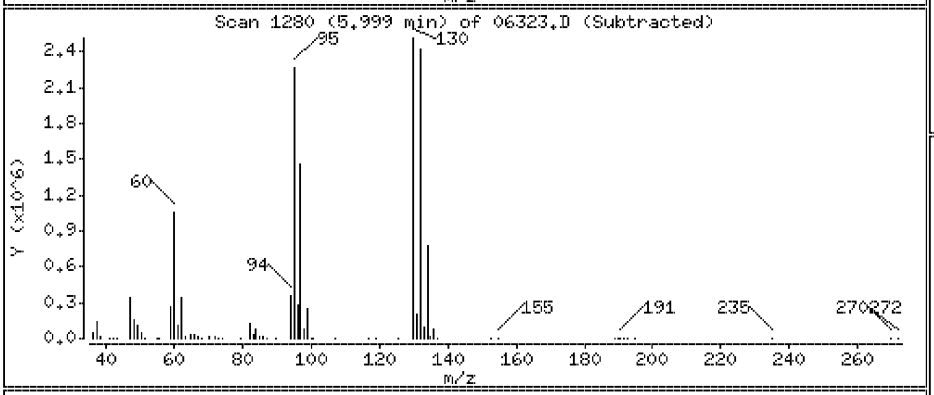
Column phase: J&W DB-5

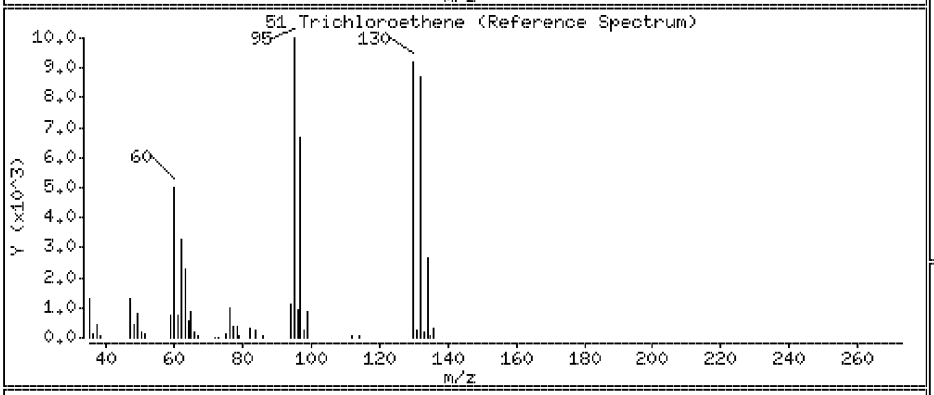
Column diameter: 0.32

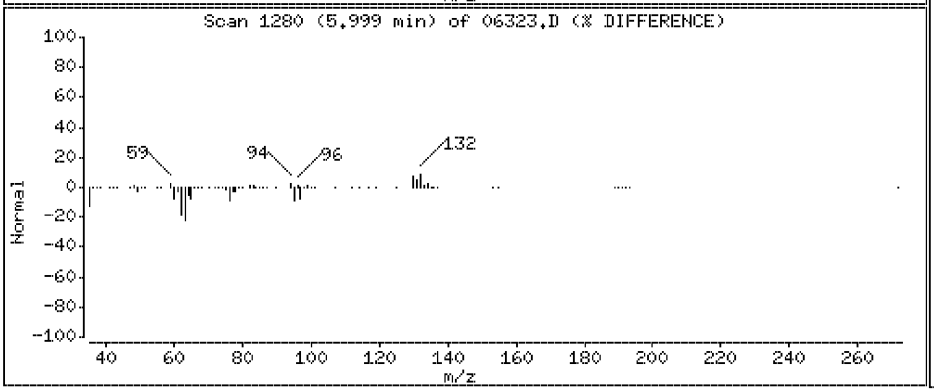
51 Trichloroethene

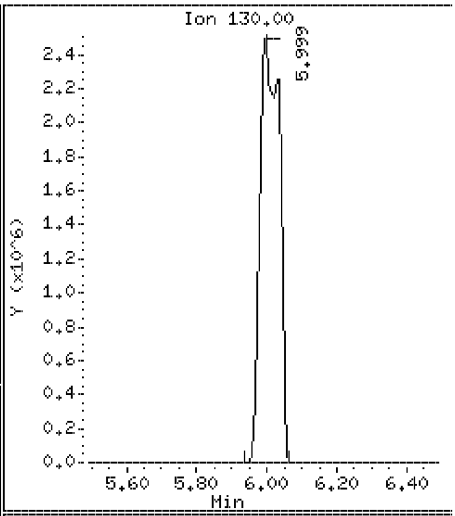
Concentration: 733 ppbv

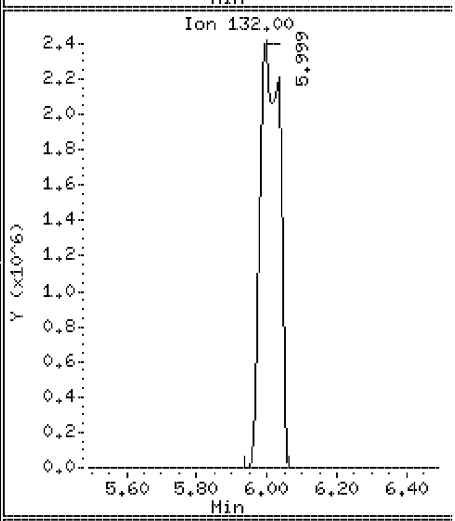


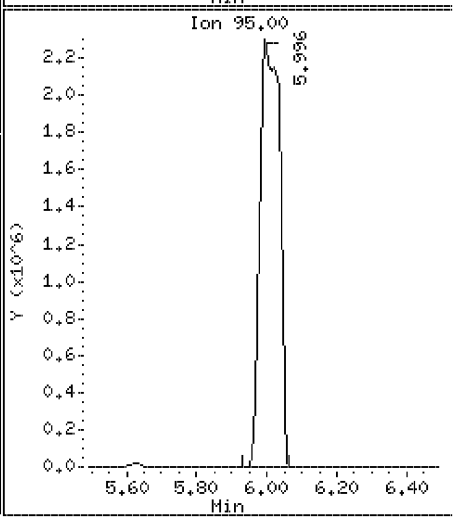












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

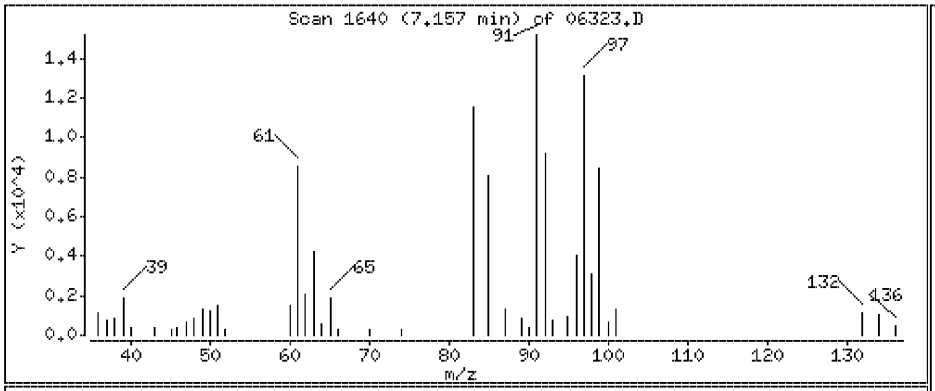
Operator: MJL

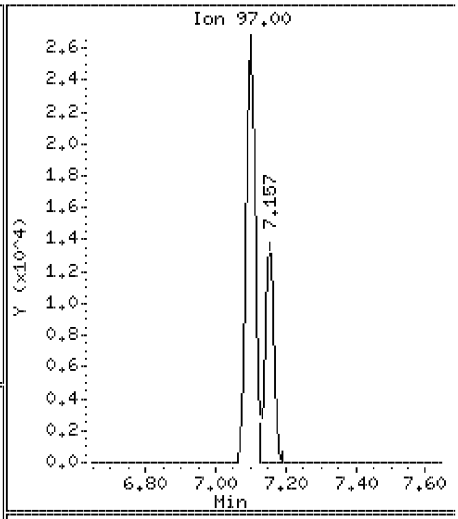
Column phase: J&W DB-5

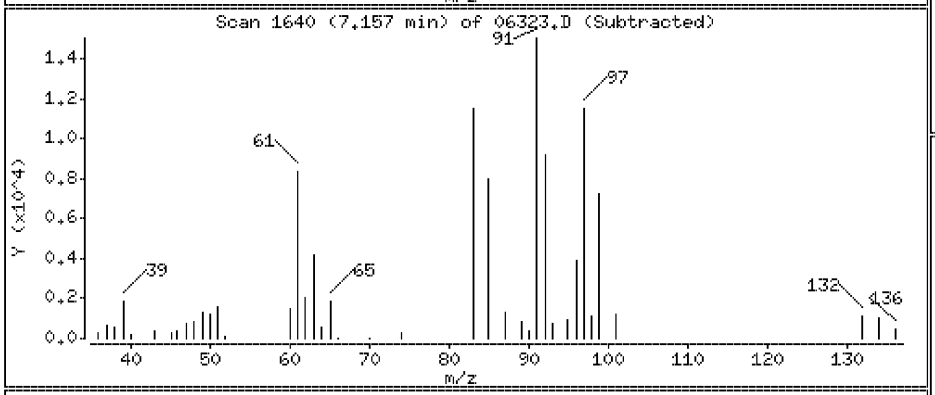
Column diameter: 0.32

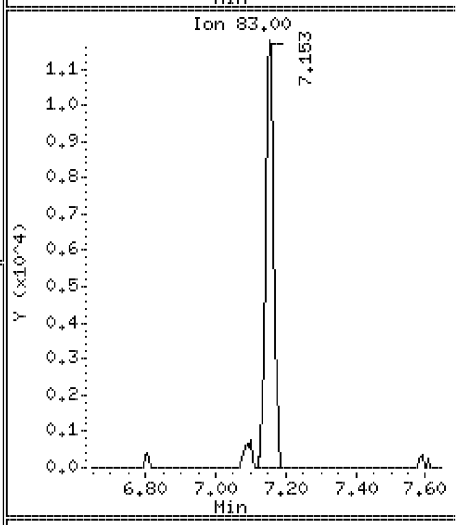
60 1,1,2-Trichloroethane

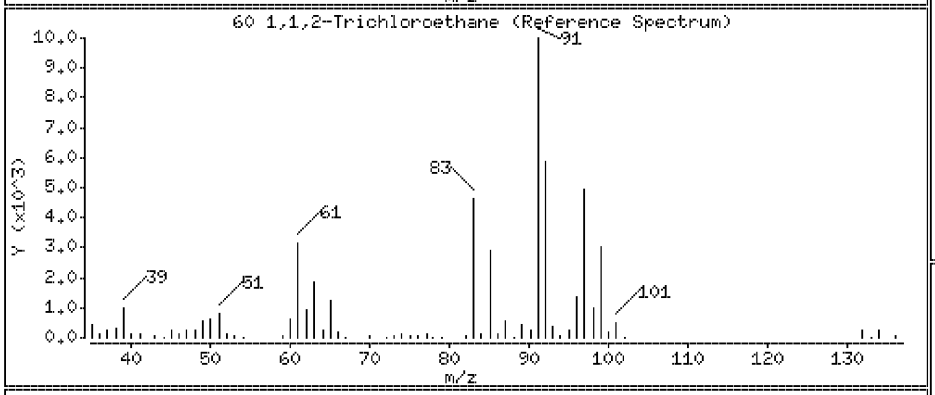
Concentration: 2.18 ppbv

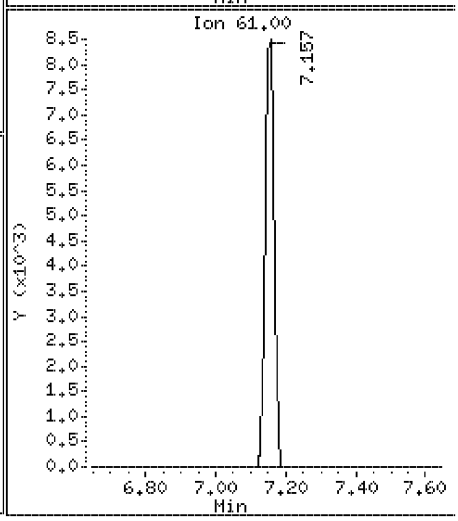


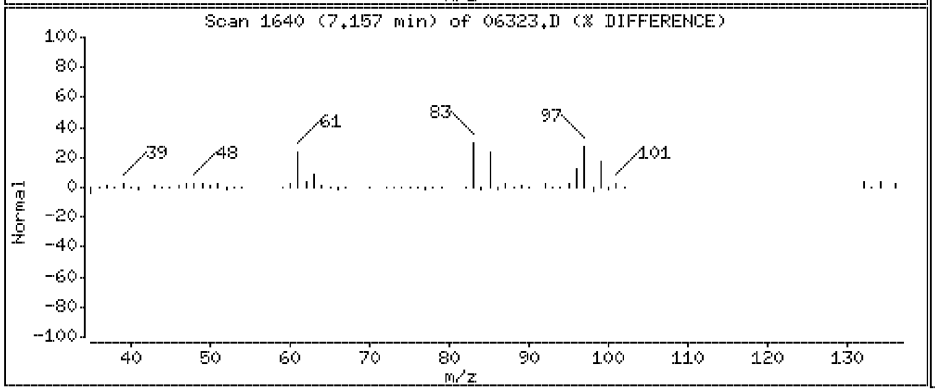












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

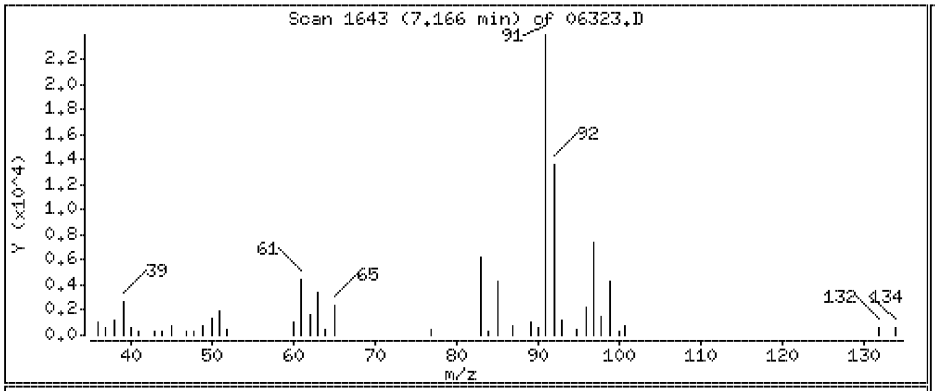
Operator: MJL

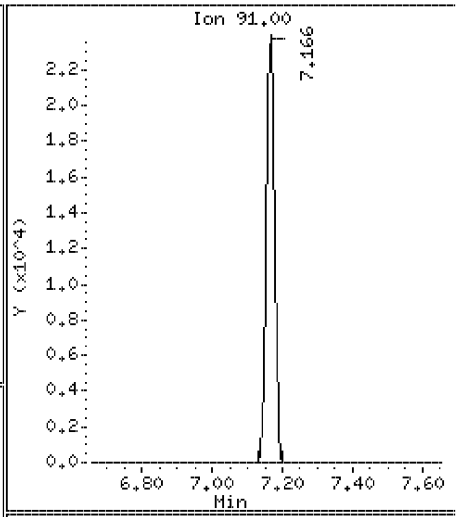
Column phase: J&W DB-5

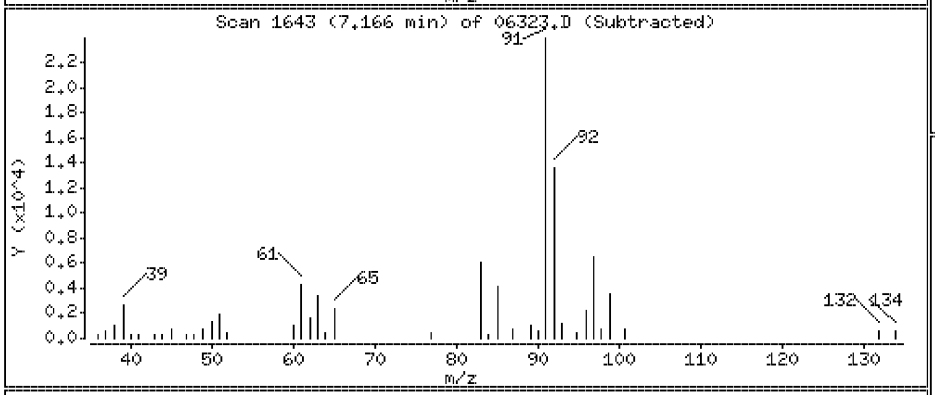
Column diameter: 0.32

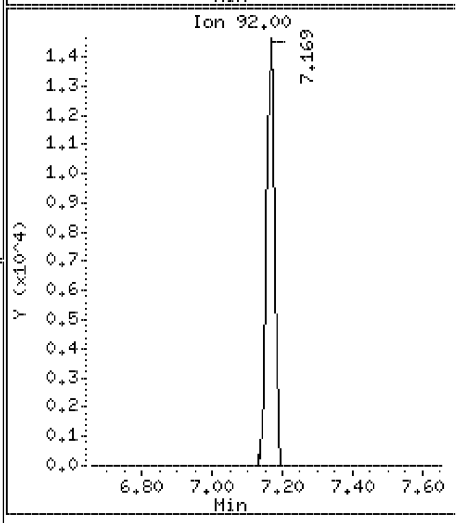
61 Toluene

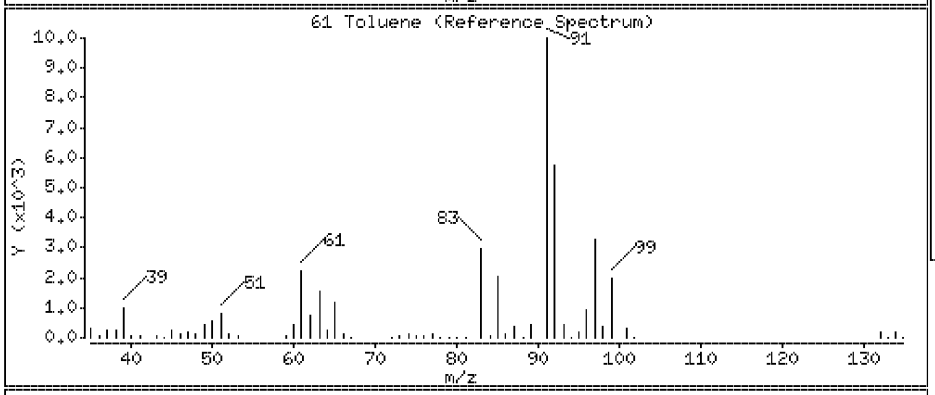
Concentration: 1.21 ppbv

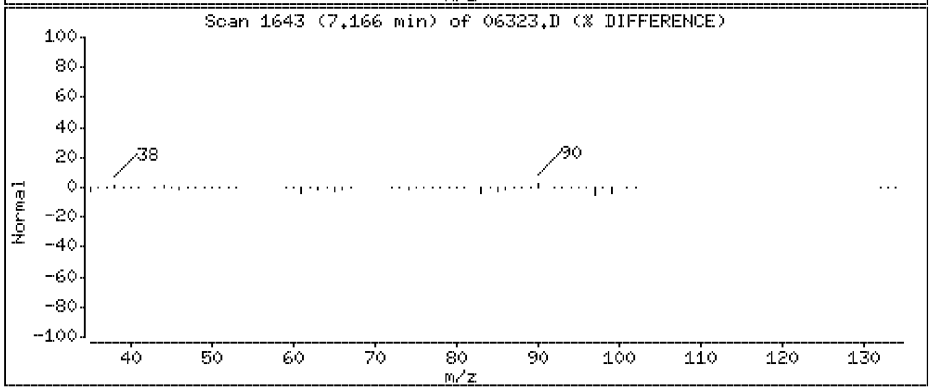












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

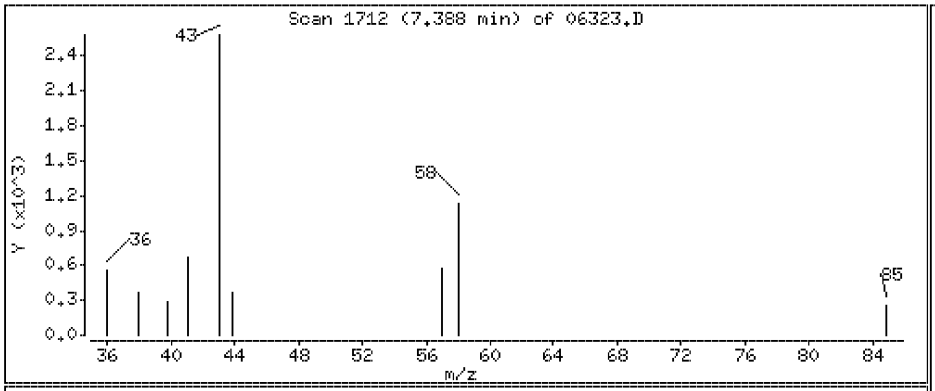
Operator: MJL

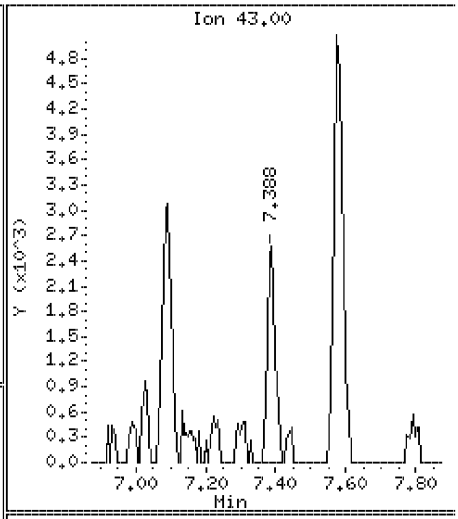
Column phase: J&W DB-5

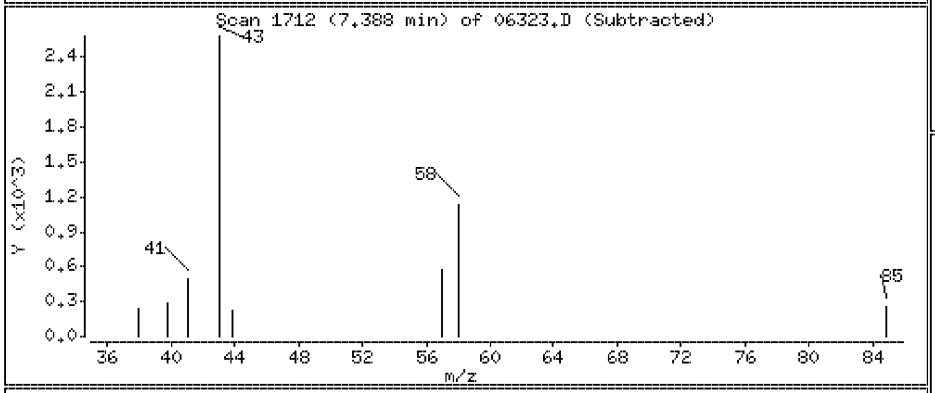
Column diameter: 0.32

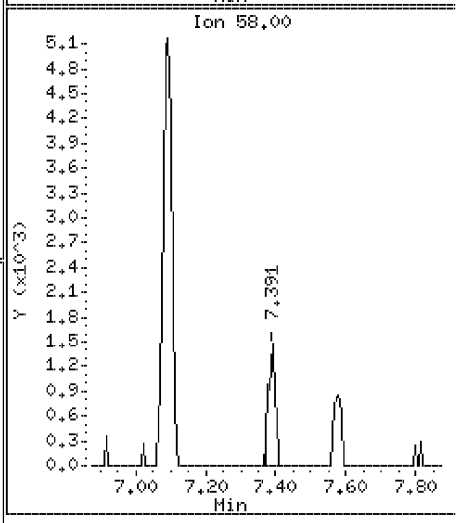
62 Methyl Butyl Ketone

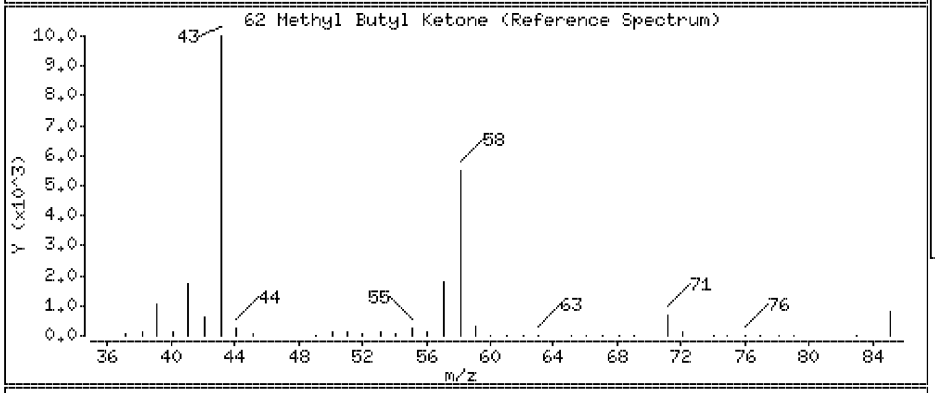
Concentration: 0.251 ppbv

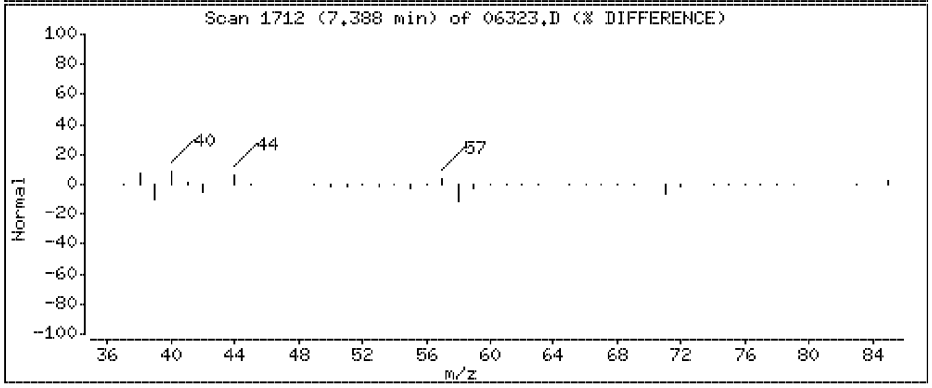












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

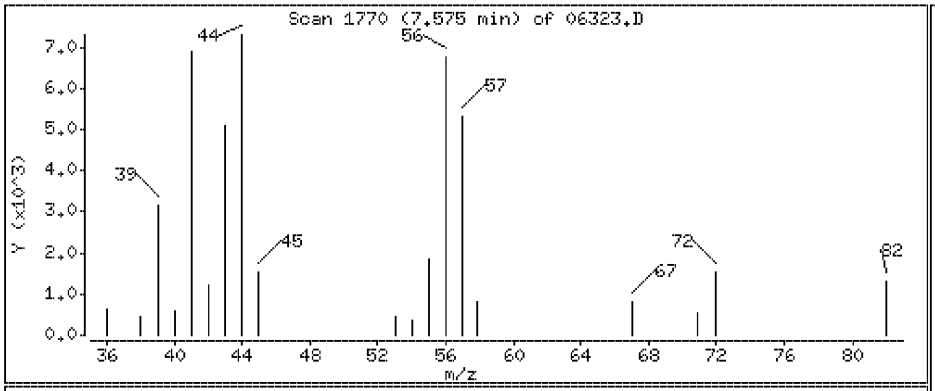
Operator: MJL

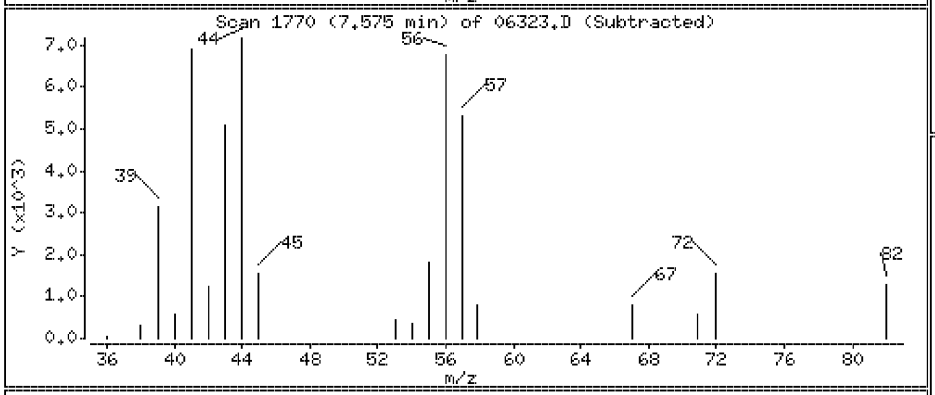
Column phase: J&W DB-5

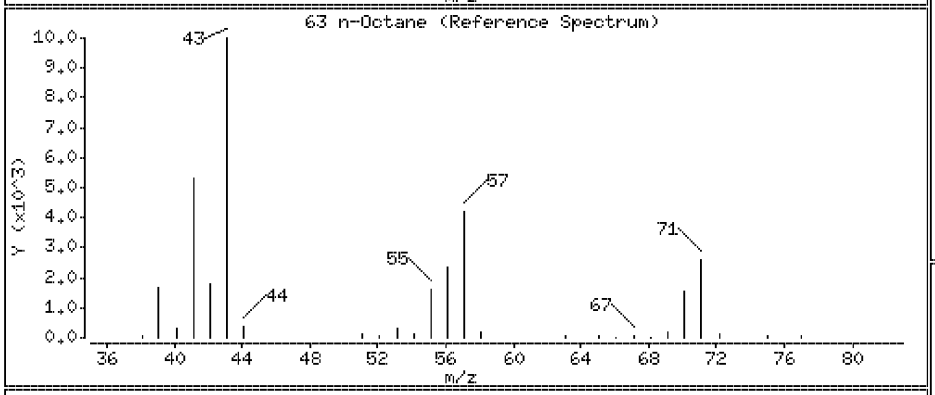
Column diameter: 0.32

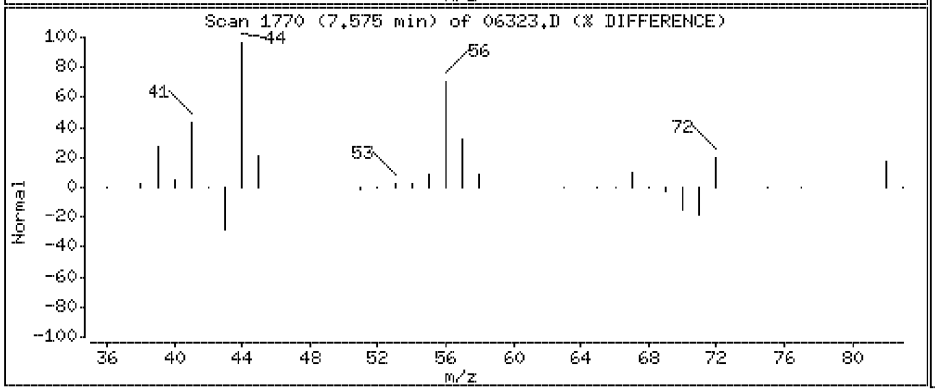
63 n-Octane

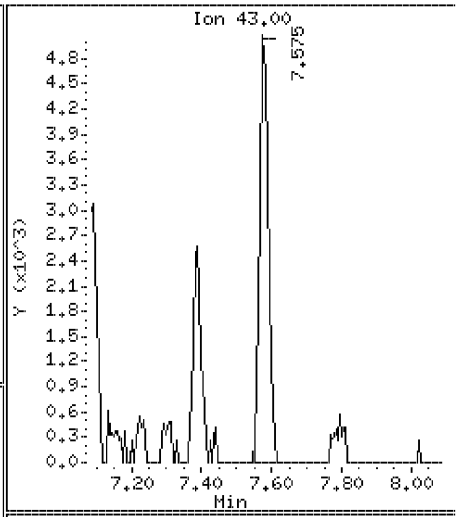
Concentration: 0.512 ppbv

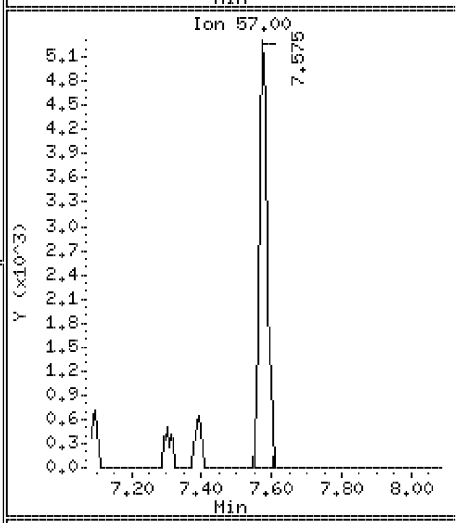


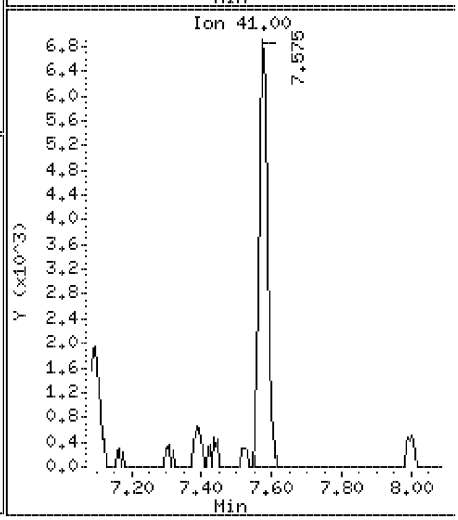












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

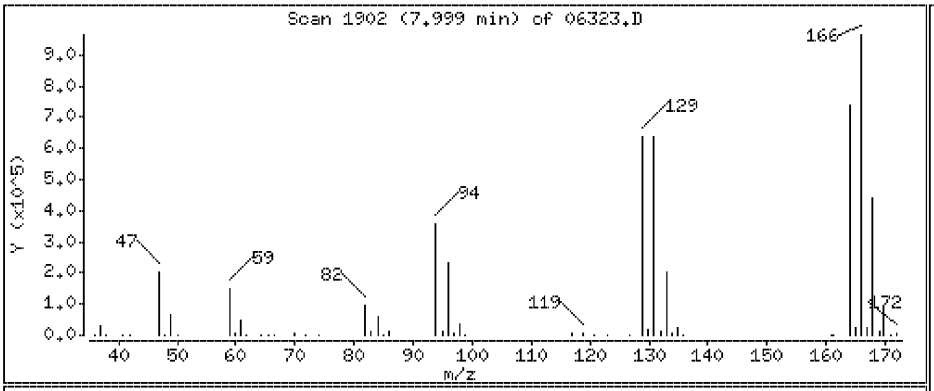
Operator: MJL

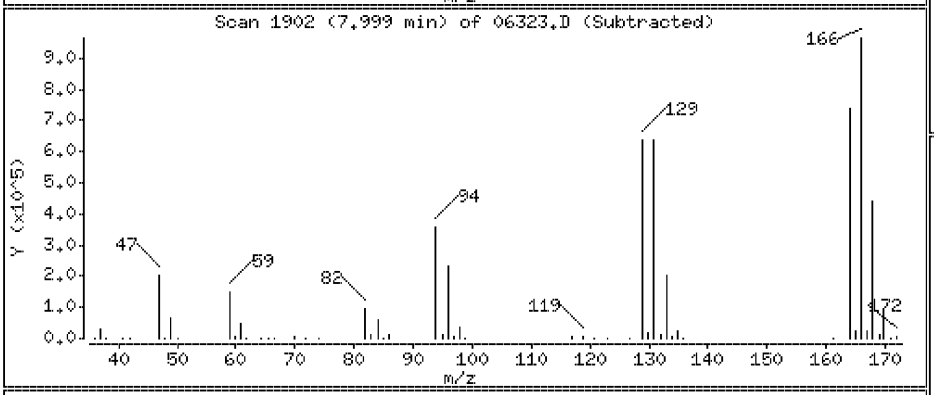
Column phase: J&W DB-5

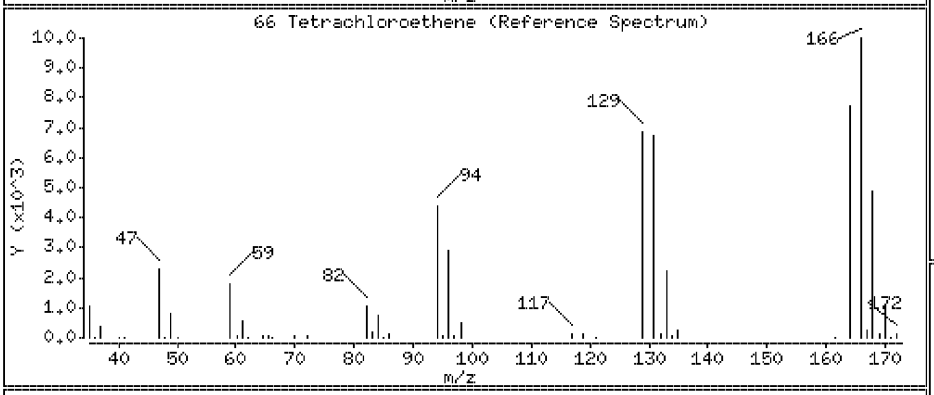
Column diameter: 0.32

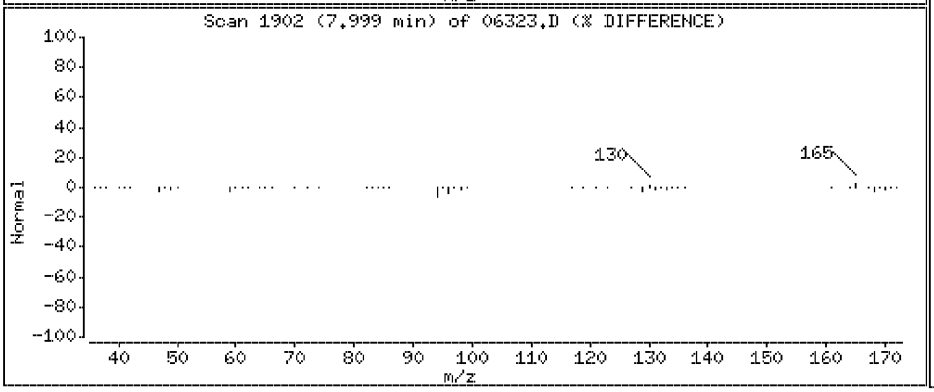
66 Tetrachloroethene

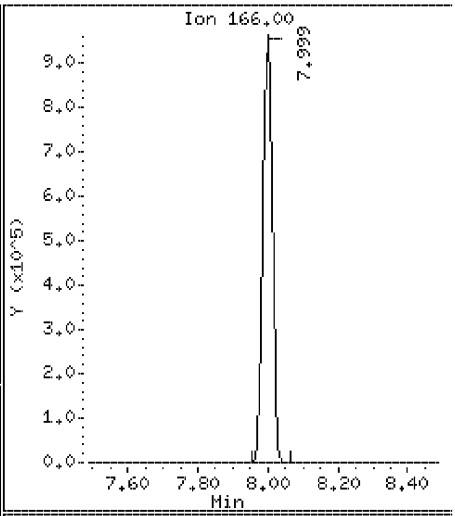
Concentration: 105 ppbv

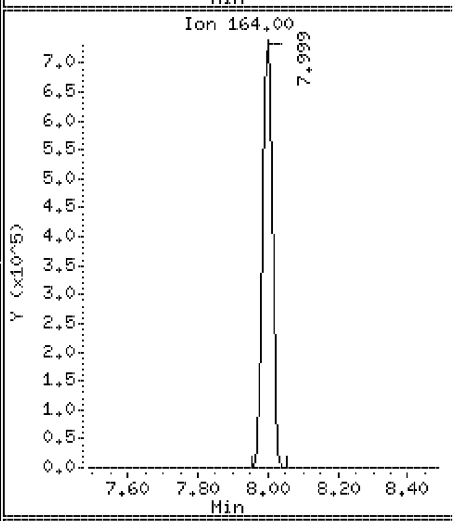


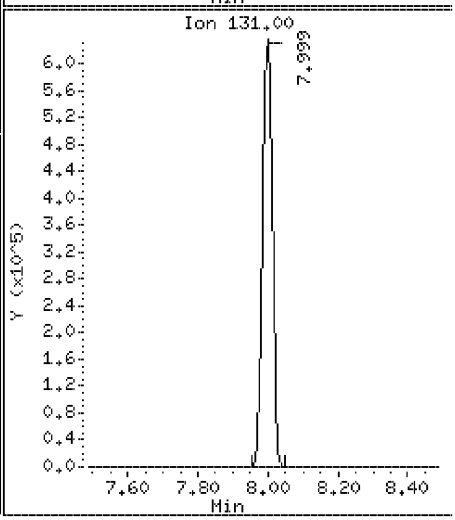












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

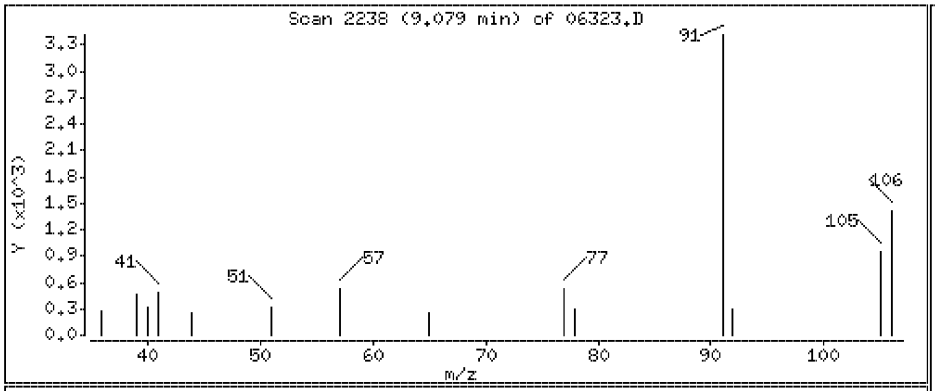
Operator: MJL

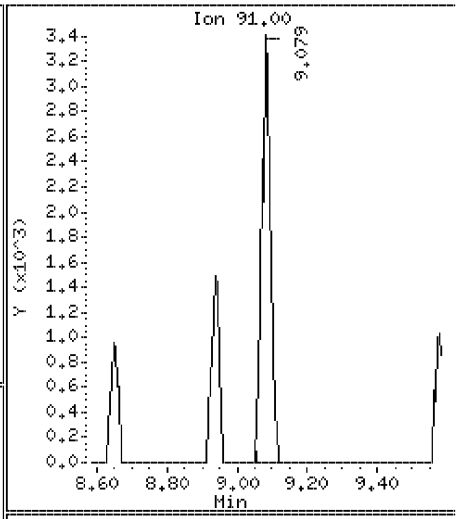
Column phase: J&W DB-5

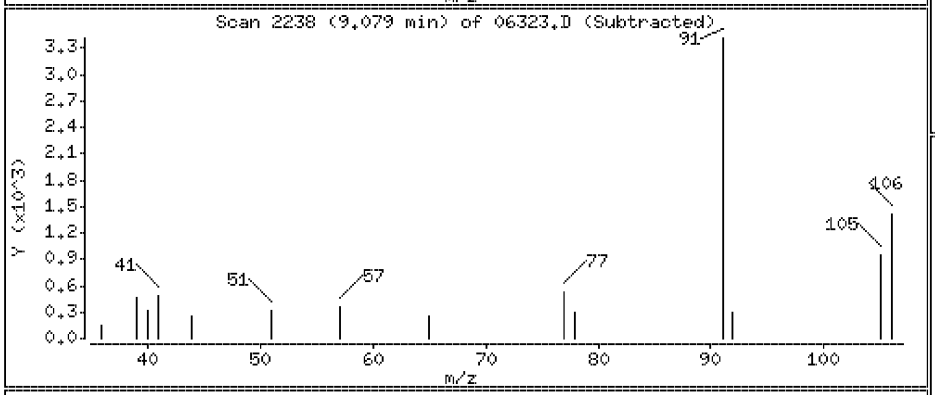
Column diameter: 0.32

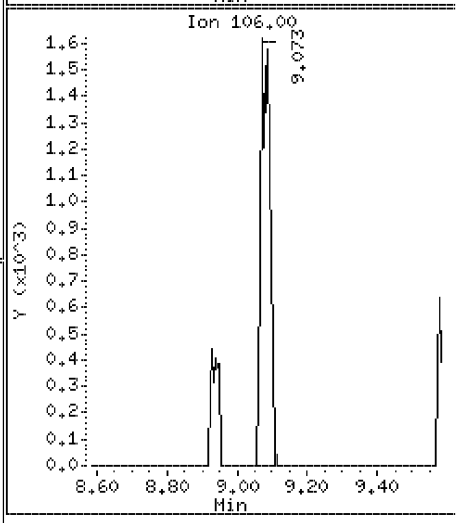
70 m&p-Xylene

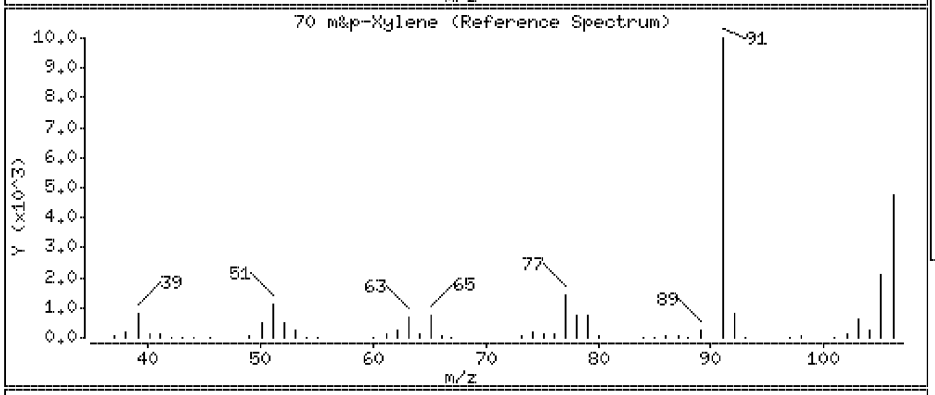
Concentration: 0.200 ppbv

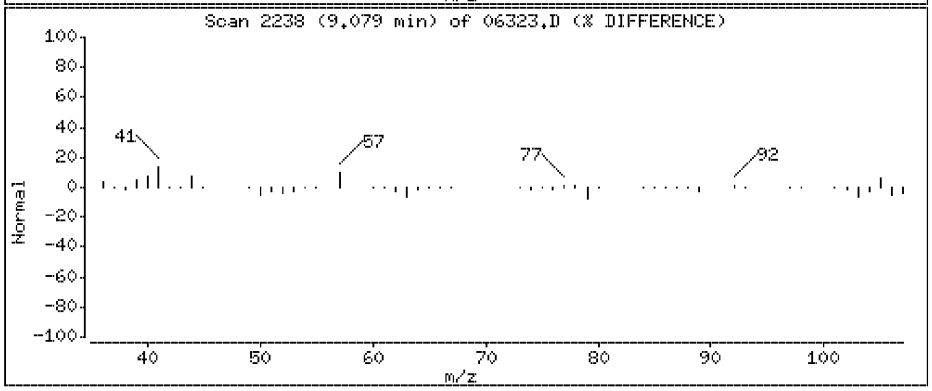












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

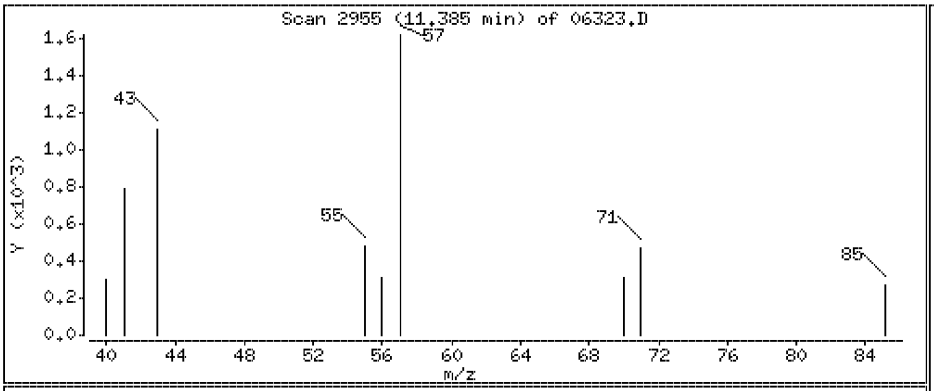
Operator: MJL

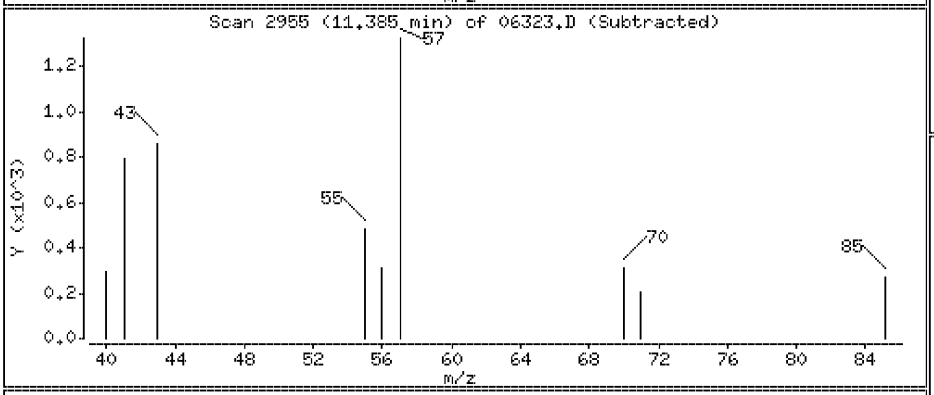
Column phase: J&W DB-5

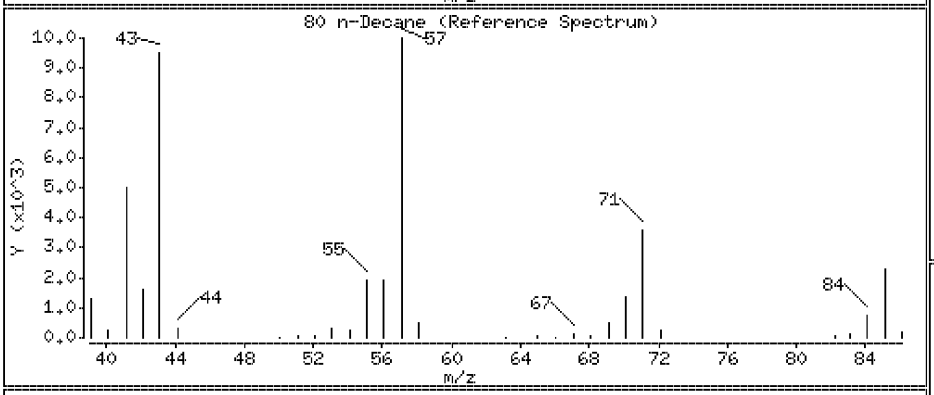
Column diameter: 0.32

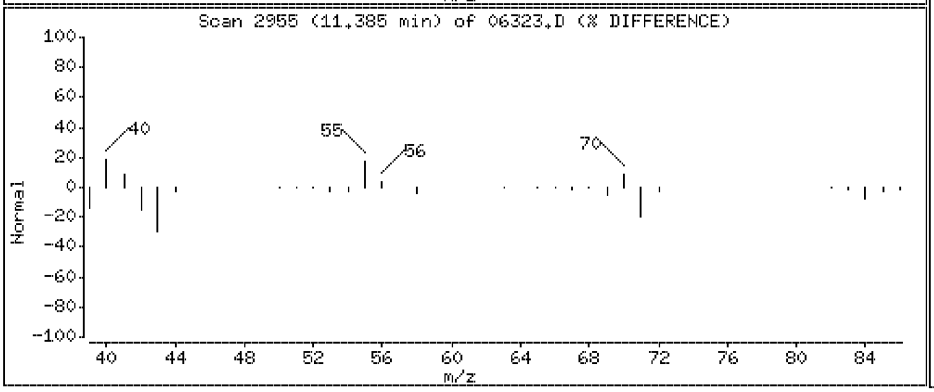
80 n-Decane

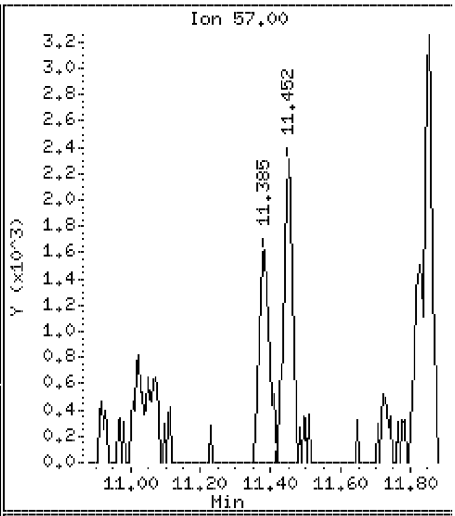
Concentration: 0.573 ppbv

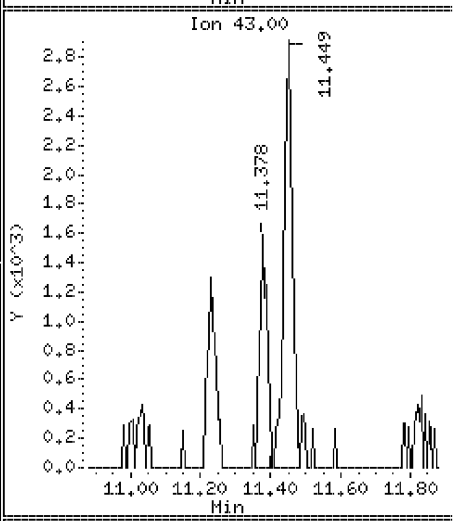


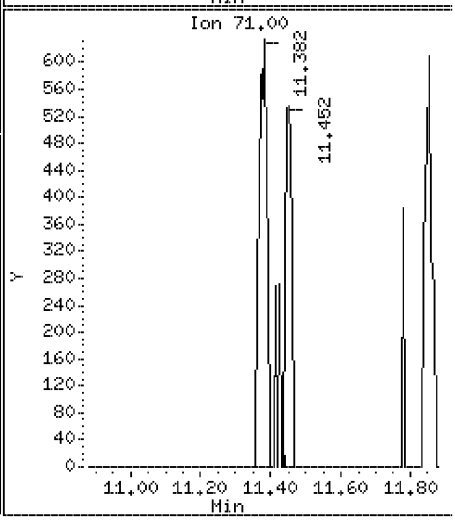












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06323.D

Date : 04-MAR-2017 18:05

Client ID:

Instrument: 10airB.i

Sample Info:

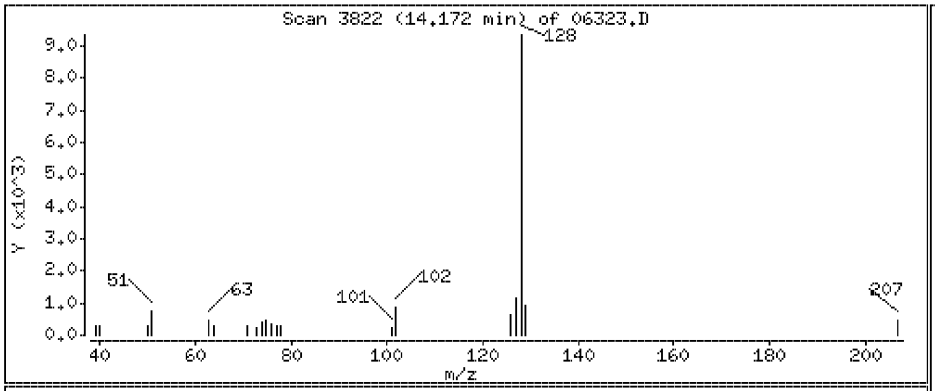
Operator: MJL

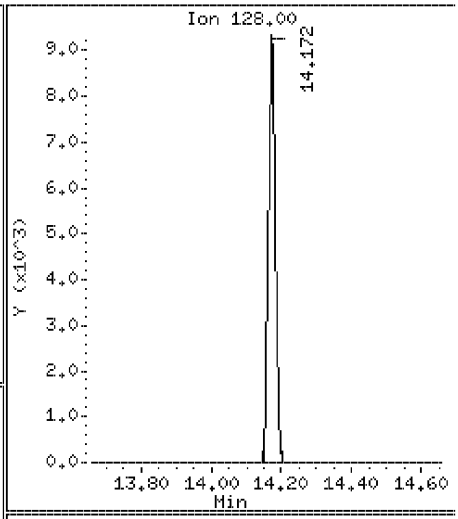
Column phase: J&W DB-5

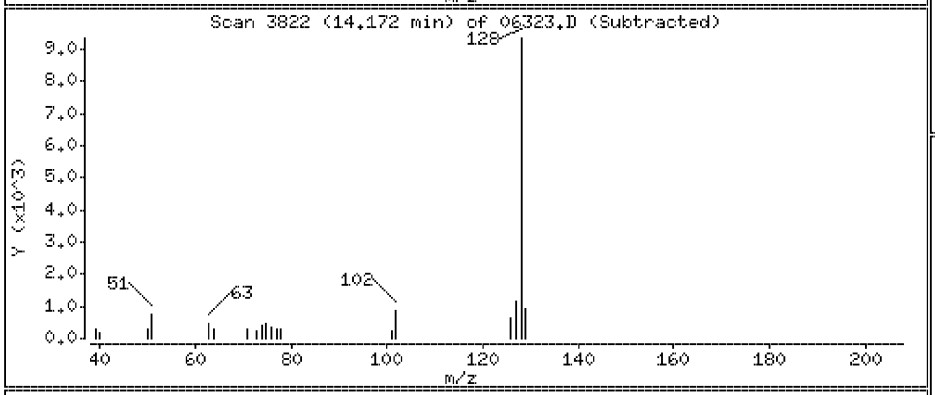
Column diameter: 0.32

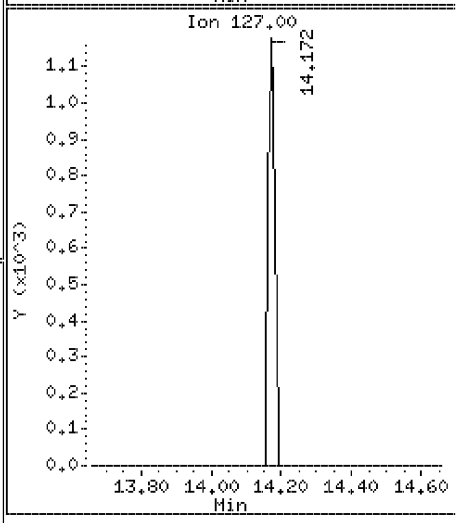
94 Naphthalene

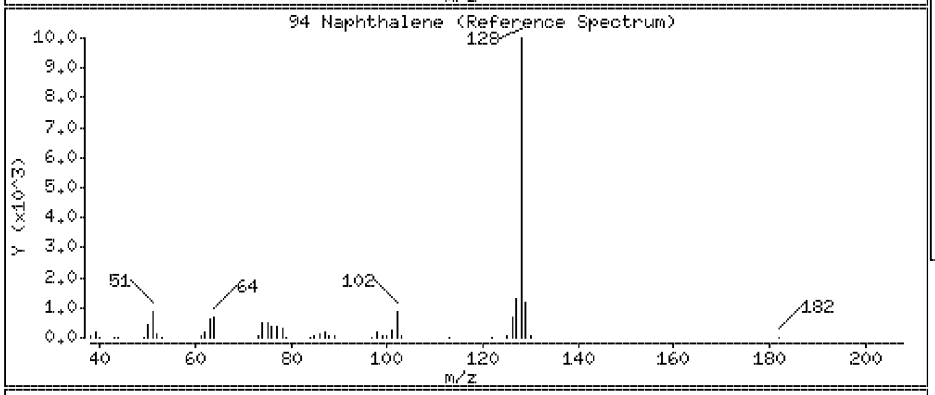
Concentration: 1.20 ppbv

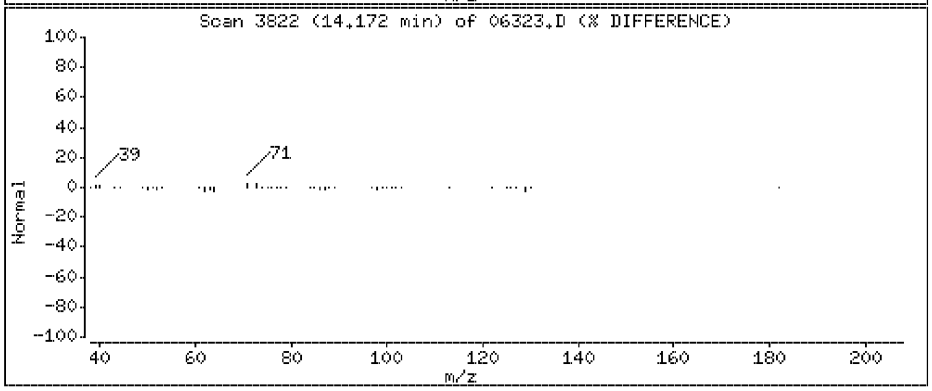






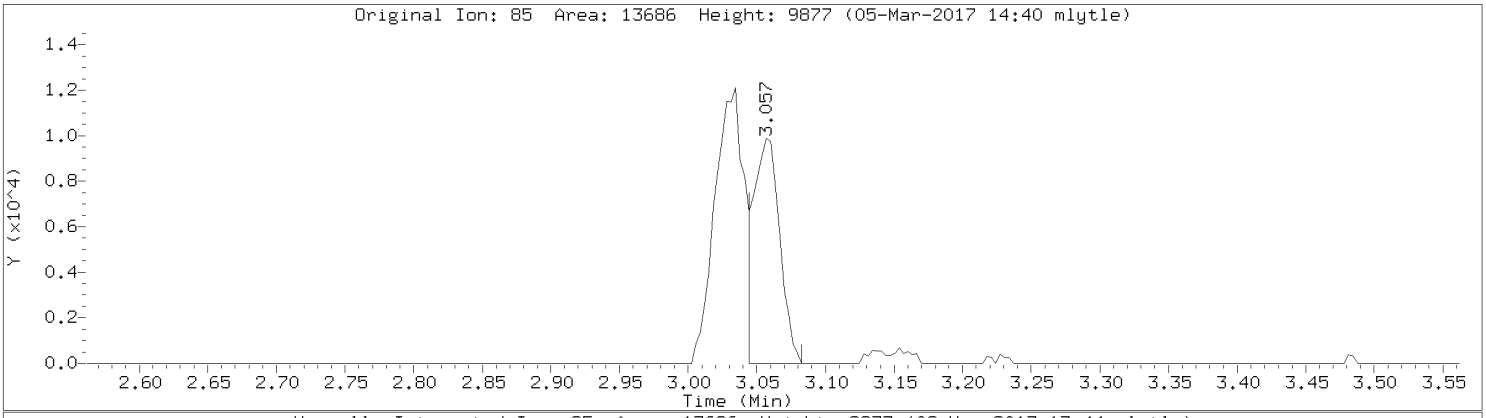


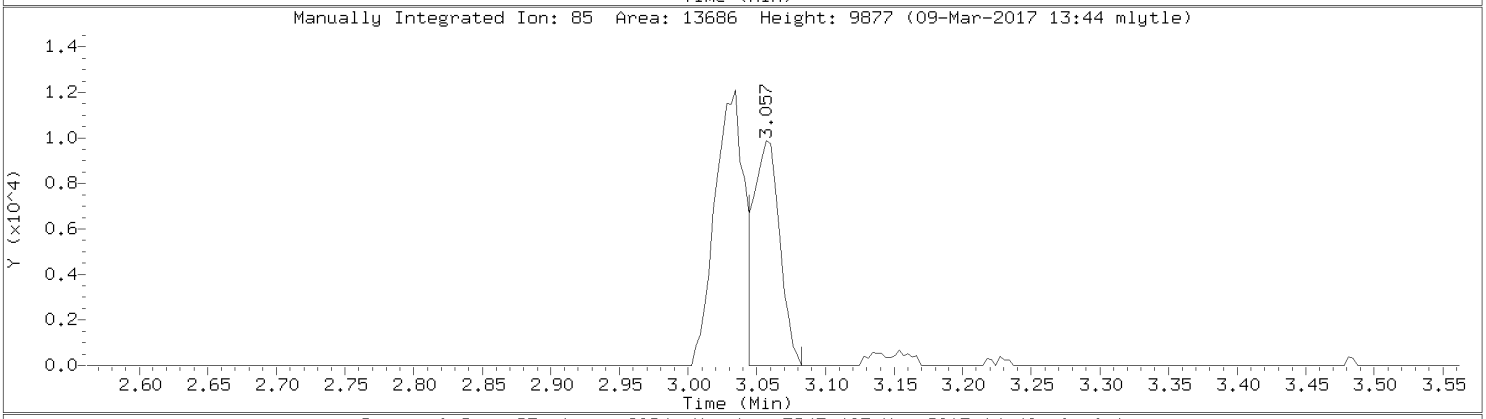


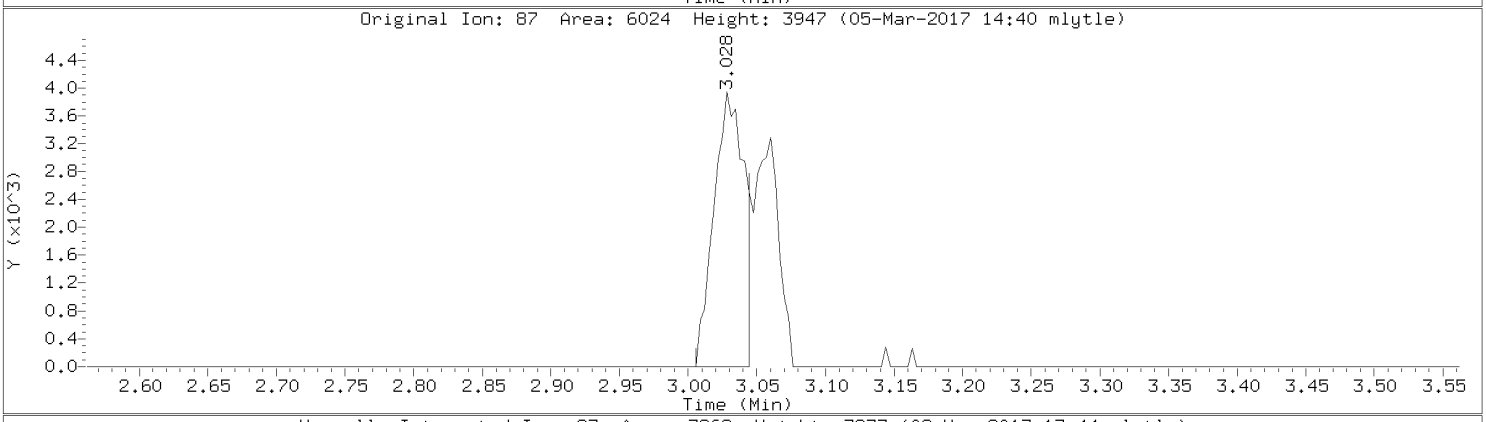


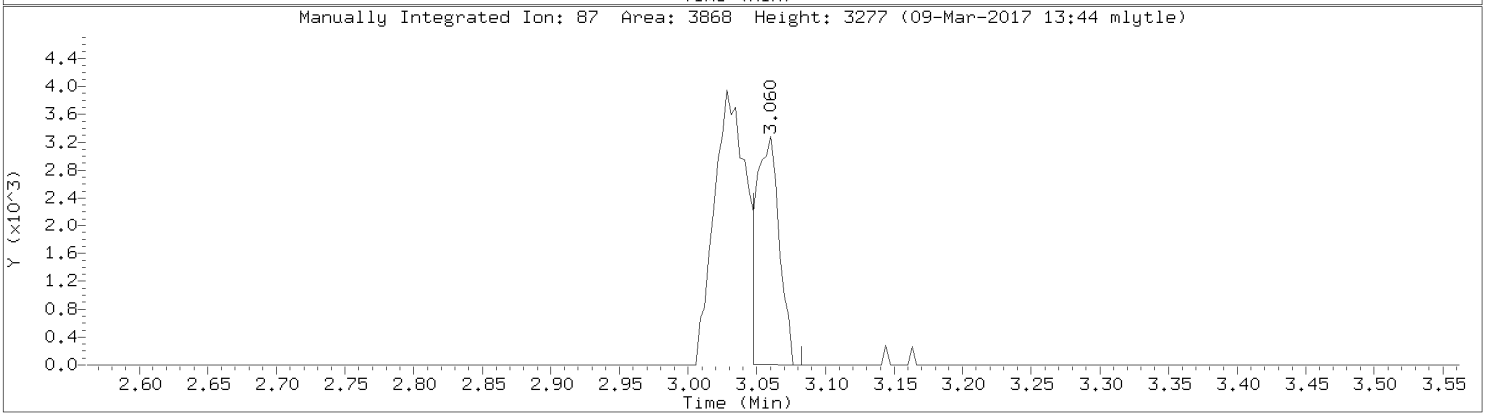
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06323.D
Injection Date: 04-MAR-2017 18:05
Instrument: 10airB.i
Lab Sample ID: 10379929015

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



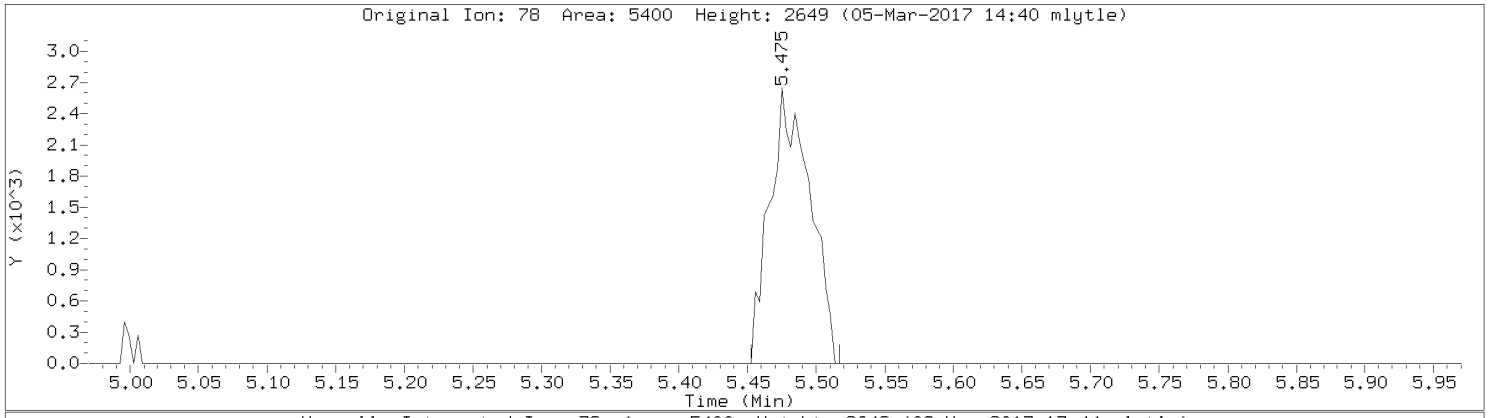


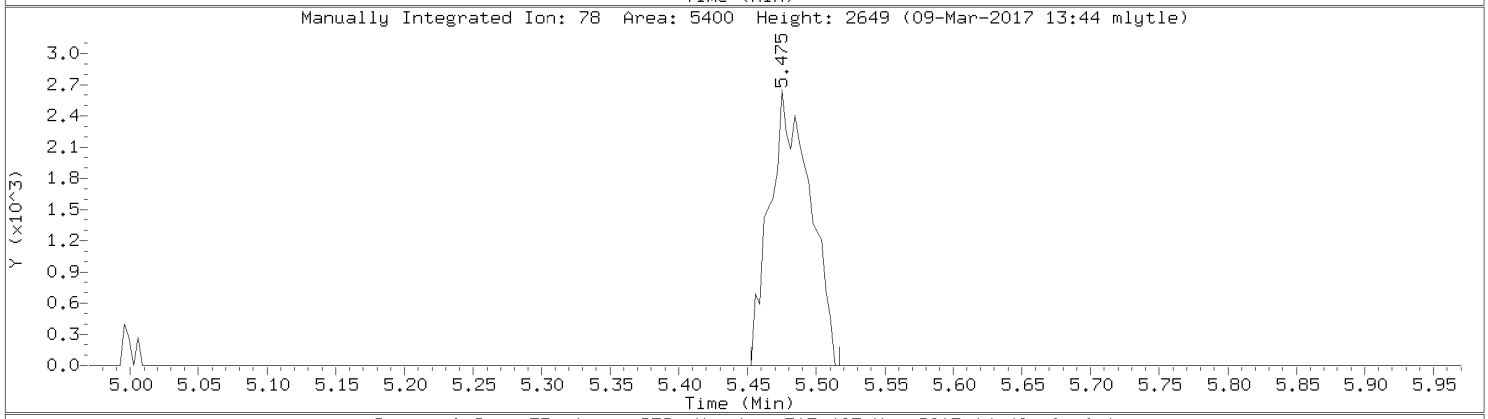


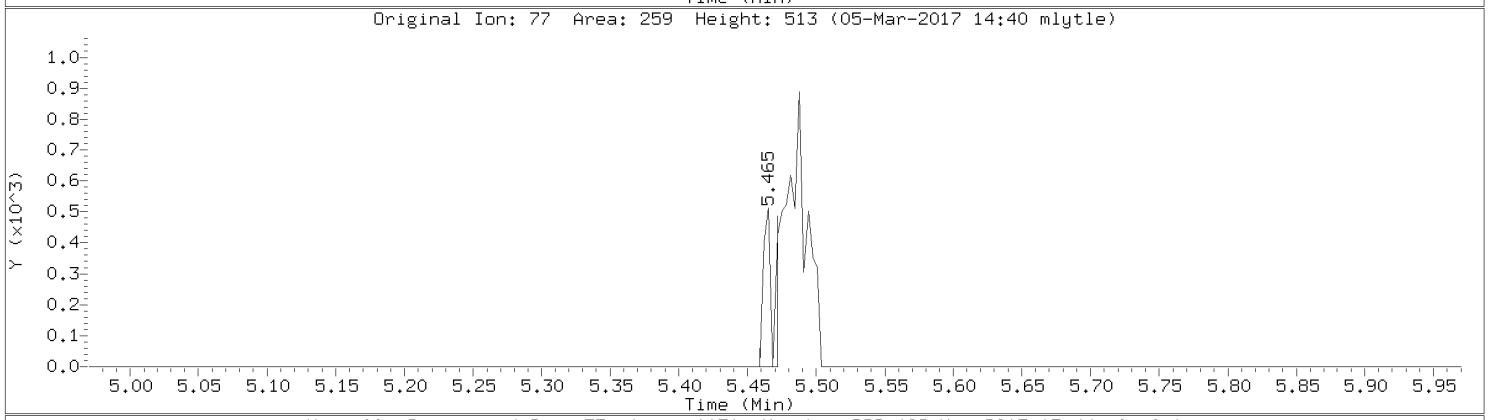


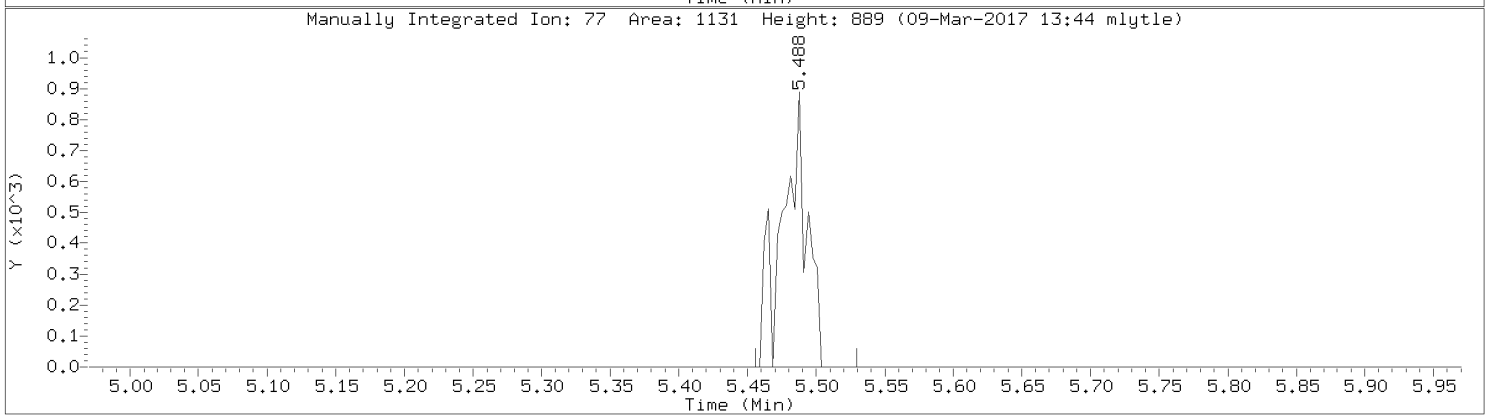
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06323.D
Injection Date: 04-MAR-2017 18:05
Instrument: 10airB.i
Lab Sample ID: 10379929015

Compound: Benzene
CAS Number: 71-43-2

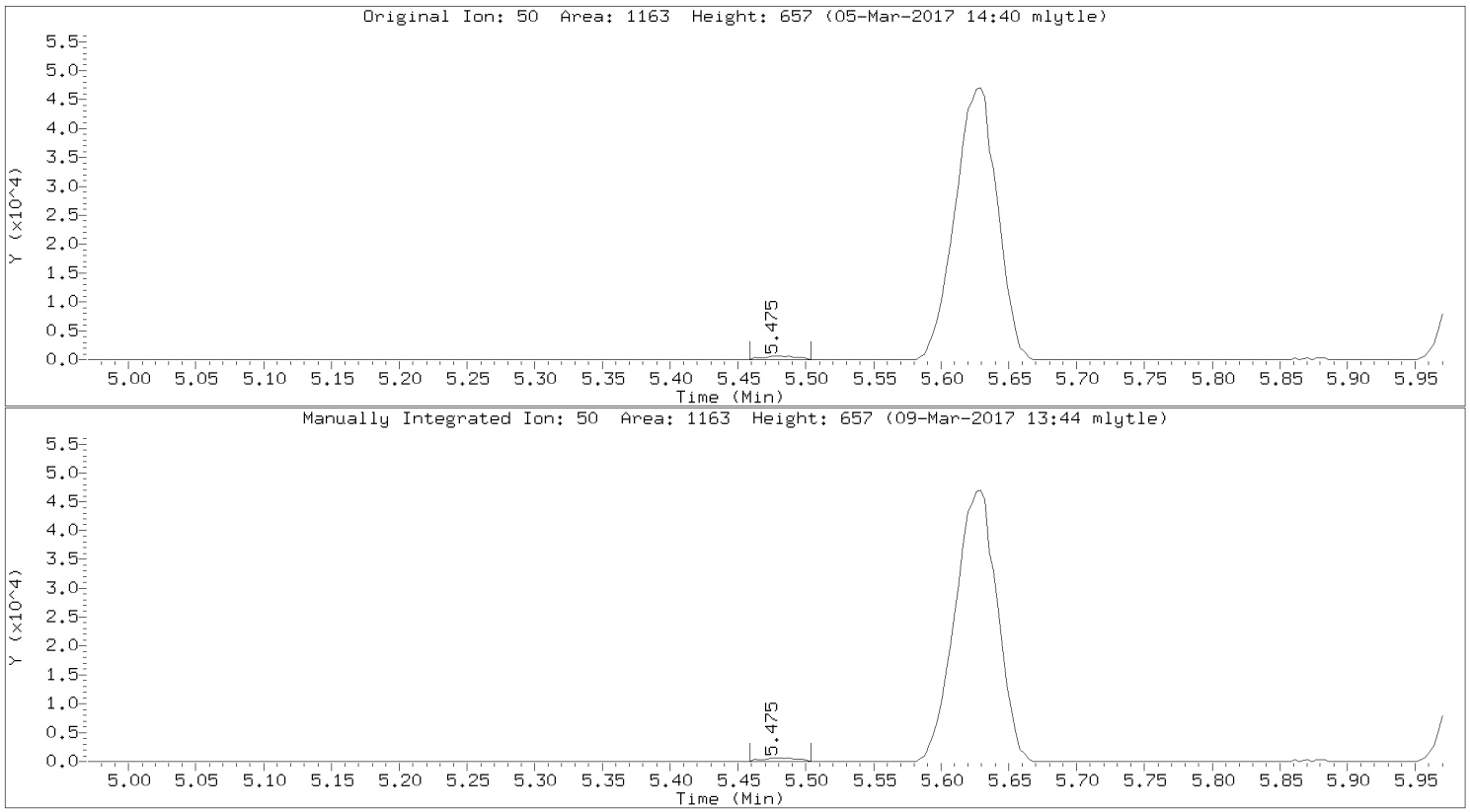






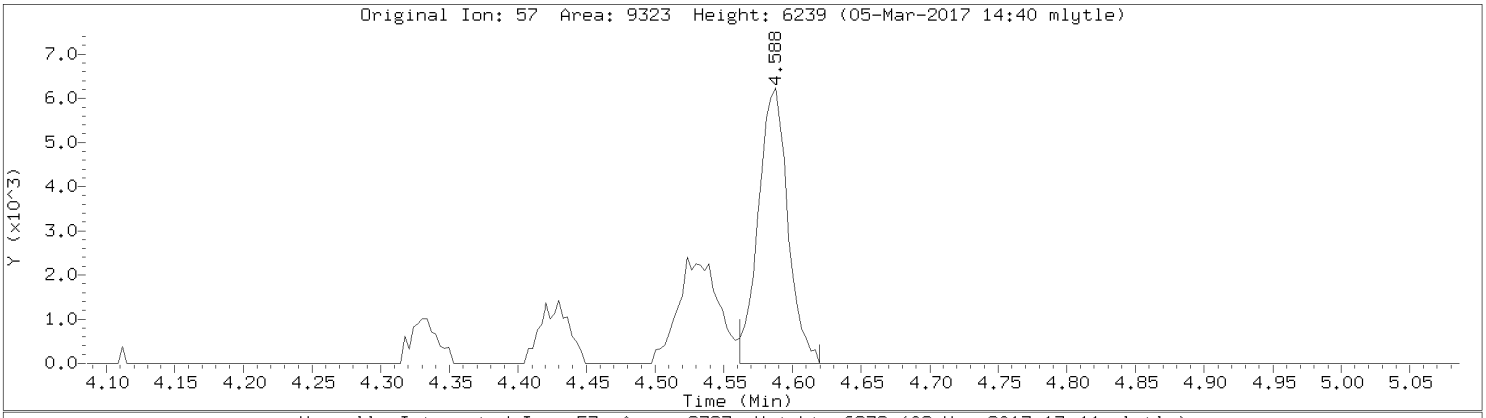


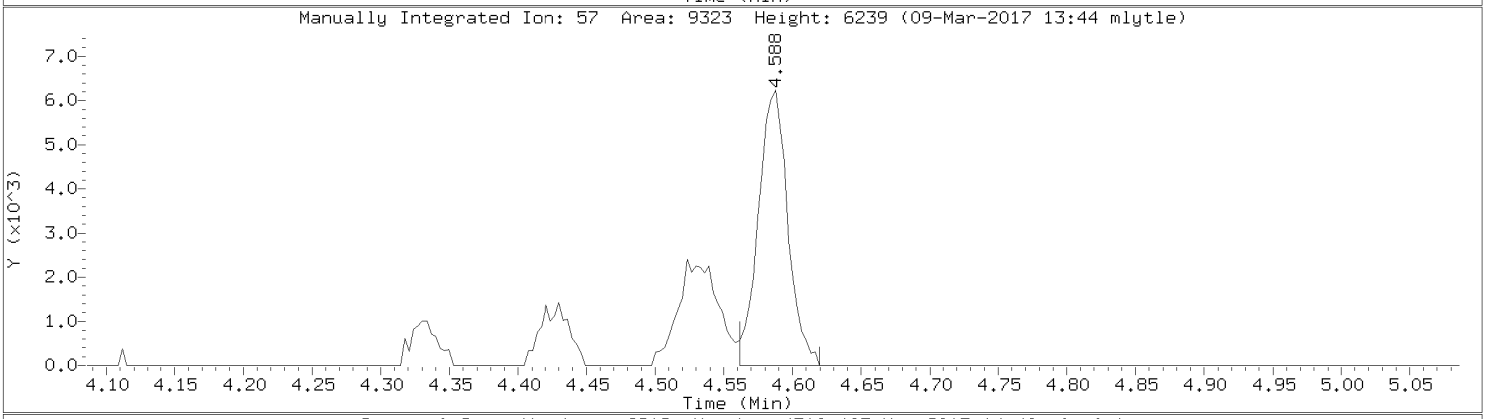
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06323.D
Injection Date: 04-MAR-2017 18:05
Instrument: 10airB.i
Lab Sample ID: 10379929015

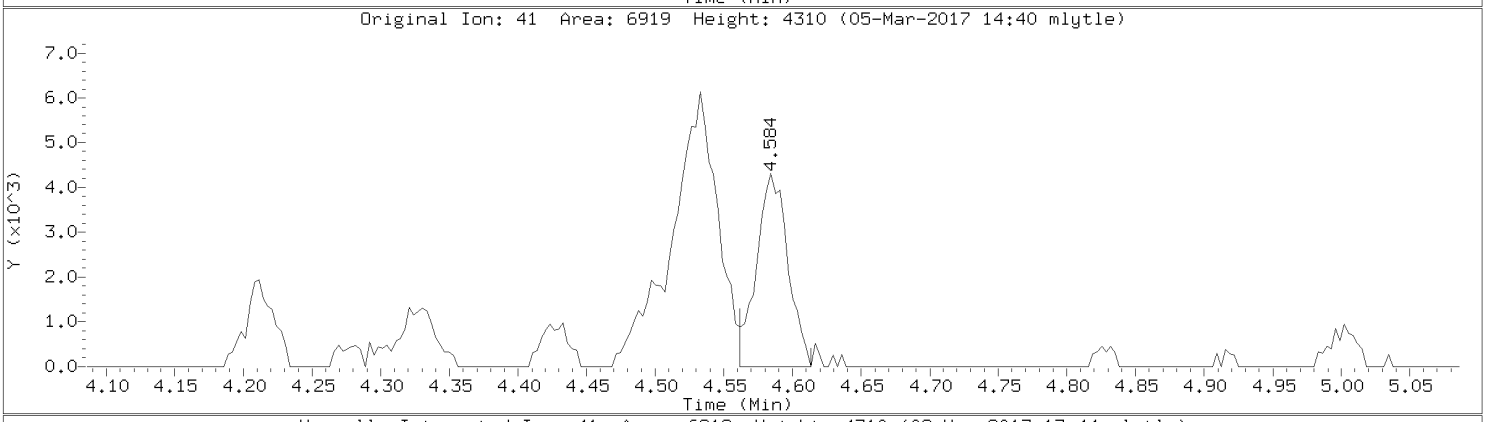


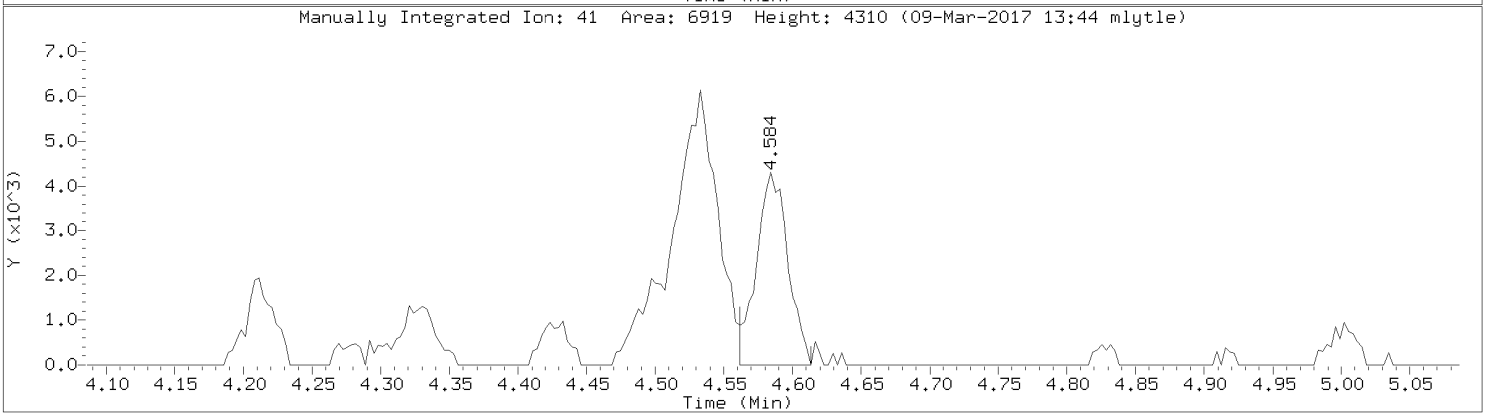
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06323.D
Injection Date: 04-MAR-2017 18:05
Instrument: 10airB.i
Lab Sample ID: 10379929015

Compound: n-Hexane
CAS Number: 110-54-3

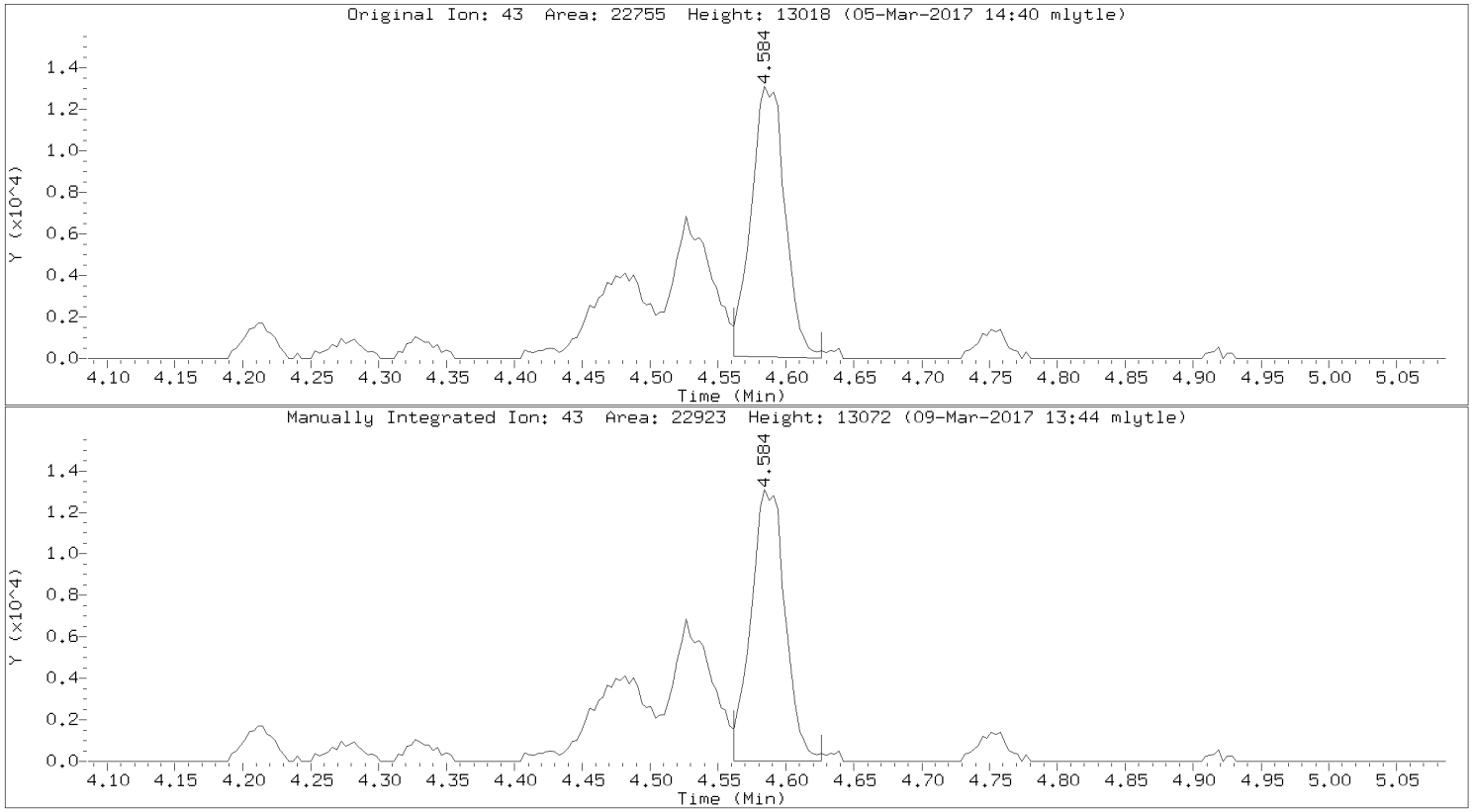






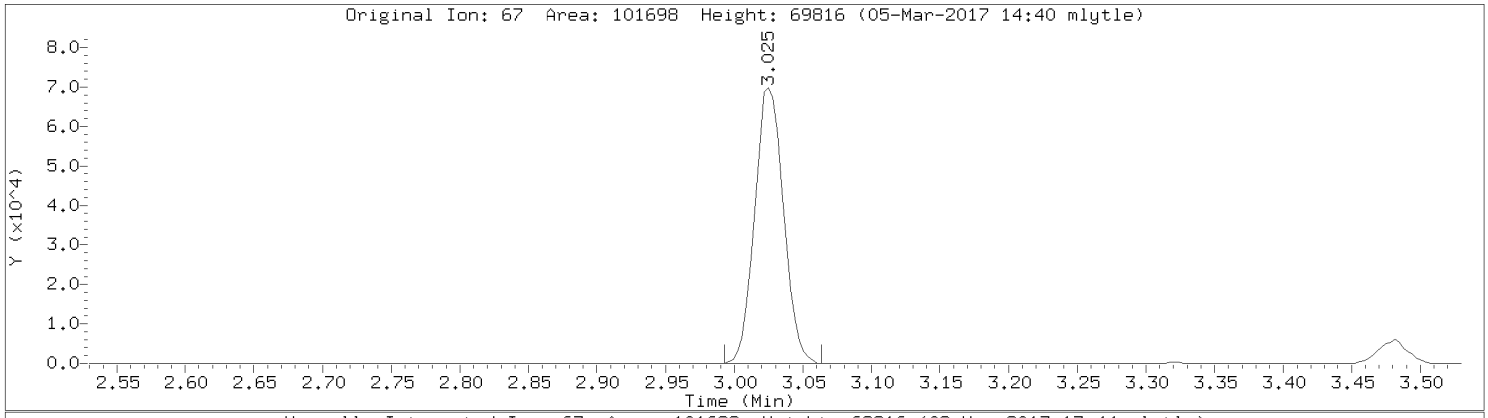


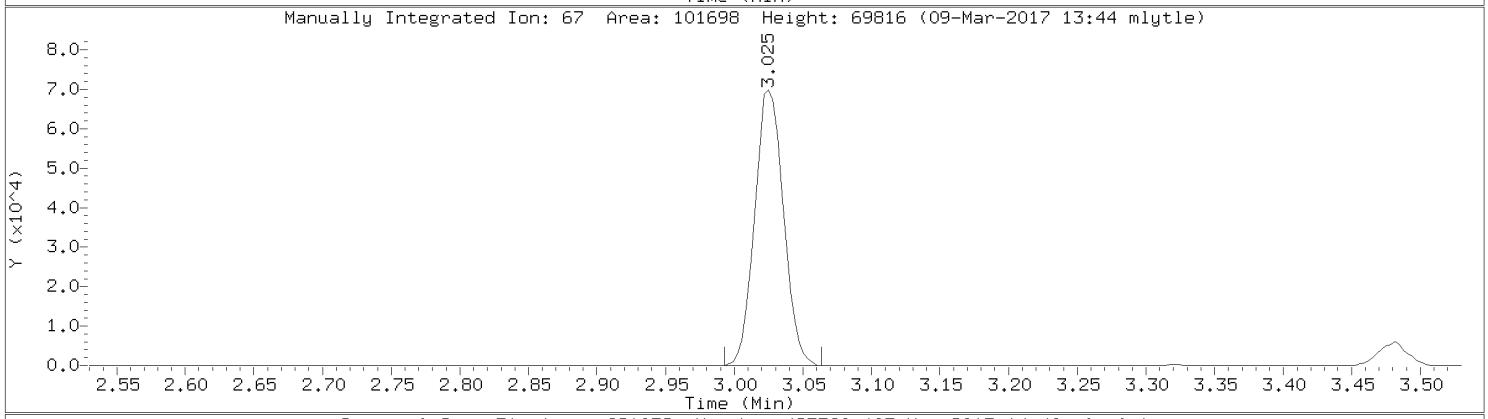
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06323.D
Injection Date: 04-MAR-2017 18:05
Instrument: 10airB.i
Lab Sample ID: 10379929015

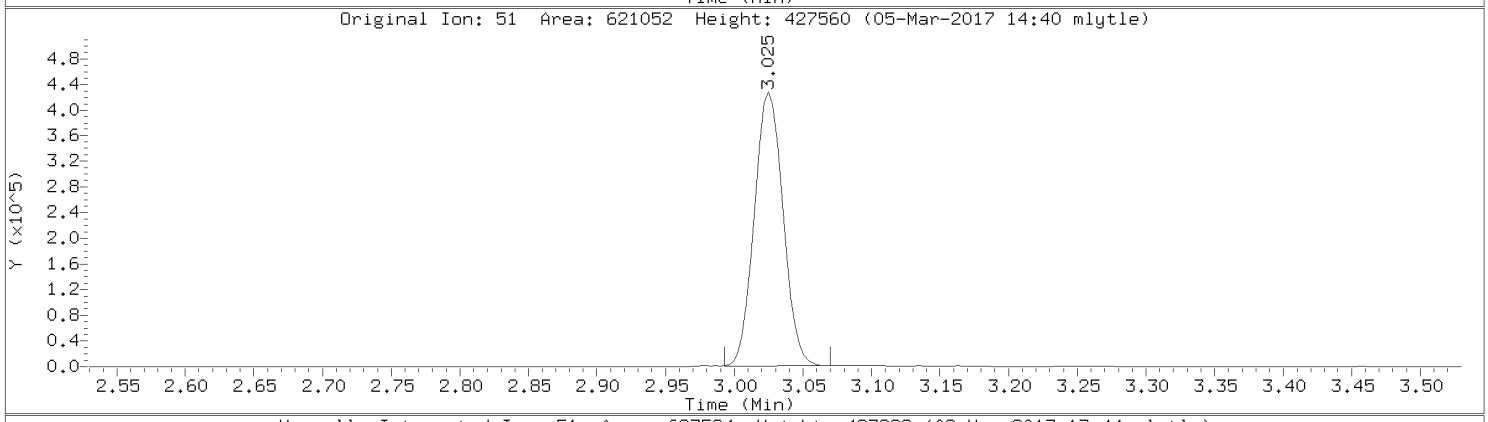


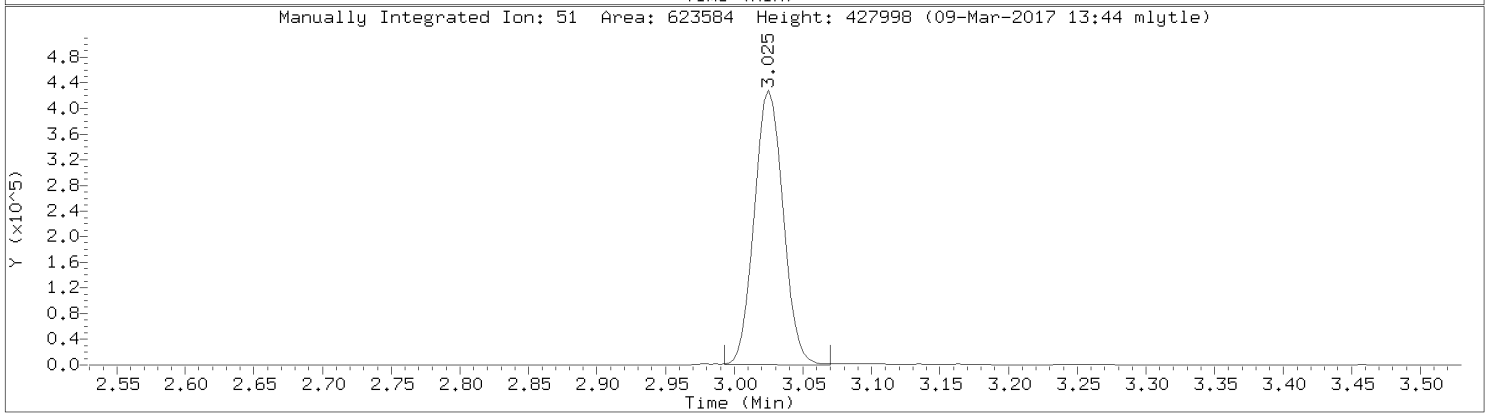
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06323.D
Injection Date: 04-MAR-2017 18:05
Instrument: 10airB.i
Lab Sample ID: 10379929015

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

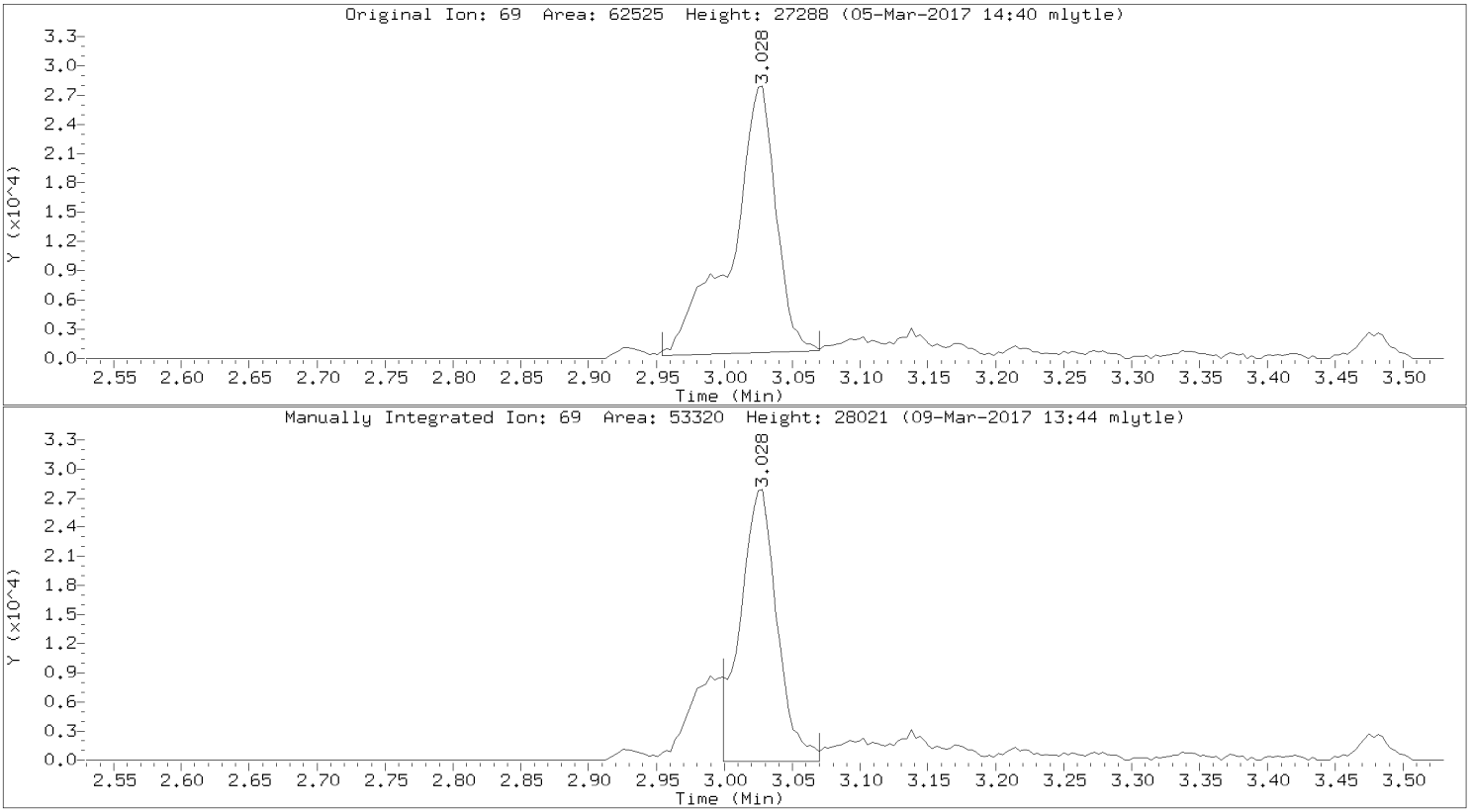








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06323.D
Injection Date: 04-MAR-2017 18:05
Instrument: 10airB.i
Lab Sample ID: 10379929015



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_62.5_20170221 **Lab ID: 10379929015** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/04/17 18:05	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/04/17 18:05	87-68-3	
n-Hexane	**2.7**	ug/m3	1.3	0.62	1.75		03/04/17 18:05	110-54-3	
2-Hexanone	**1.0J**	ug/m3	7.3	0.72	1.75		03/04/17 18:05	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/04/17 18:05	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/04/17 18:05	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/04/17 18:05	108-87-2	
Methylene Chloride	**20.0**	ug/m3	6.2	0.95	1.75		03/04/17 18:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/04/17 18:05	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/04/17 18:05	1634-04-4	
2-Propanol	**2.2J**	ug/m3	4.4	0.42	1.75		03/04/17 18:05	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/04/17 18:05	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/04/17 18:05	79-34-5	
Tetrachloroethene	**725**	ug/m3	1.2	0.49	1.75		03/04/17 18:05	127-18-4	
Tetrachloroethene	**1460**	ug/m3	772	156	560		03/05/17 22:56	127-18-4	A3
Toluene	**4.6**	ug/m3	1.3	0.27	1.75		03/04/17 18:05	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/04/17 18:05	120-82-1	
1,1,1-Trichloroethane	**1.0J**	ug/m3	1.9	0.43	1.75		03/04/17 18:05	71-55-6	
1,1,2-Trichloroethane	**12.1**	ug/m3	0.96	0.43	1.75		03/04/17 18:05	79-00-5	
Trichloroethene	**4010**	ug/m3	0.96	0.48	1.75		03/04/17 18:05	79-01-6	
Trichloroethene	**32800**	ug/m3	308	155	560		03/05/17 22:56	79-01-6	A3
Trichlorofluoromethane	**21.3**	ug/m3	2.0	0.23	1.75		03/04/17 18:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	**402**	ug/m3	2.8	0.53	1.75		03/04/17 18:05	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/04/17 18:05	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/04/17 18:05	108-67-8	
Vinyl chloride	**0.53**	ug/m3	0.46	0.34	1.75		03/04/17 18:05	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/04/17 18:05	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/04/17 18:05	95-47-6	

Sample: VP-8D_72.5_20170221 **Lab ID: 10379929016** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**18.1**	ug/m3	4.4	1.5	1.83		03/04/17 18:36	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 18:36	107-05-1	
Benzene	**0.65**	ug/m3	0.59	0.22	1.83		03/04/17 18:36	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 18:36	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 18:36	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 18:36	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 18:36	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/04/17 18:36	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/04/17 18:36	75-15-0	
Carbon tetrachloride	**0.67J**	ug/m3	1.2	0.35	1.83		03/04/17 18:36	56-23-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_72.5_20170221 **Lab ID: 10379929016** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Chlorobenzene	**0.87J**	ug/m3	1.7	0.25	1.83		03/04/17 18:36	108-90-7	
Chlorodifluoromethane	**168**	ug/m3	1.3	0.51	1.83		03/04/17 18:36	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 18:36	75-00-3	
Chloroform	**56.2**	ug/m3	0.91	0.35	1.83		03/04/17 18:36	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/04/17 18:36	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 18:36	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/04/17 18:36	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 18:36	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 18:36	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 18:36	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 18:36	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 18:36	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 18:36	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.8	0.88	1.83		03/04/17 18:36	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 18:36	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 18:36	107-06-2	
1,1-Dichloroethene	**4.6**	ug/m3	1.5	0.44	1.83		03/04/17 18:36	75-35-4	
cis-1,2-Dichloroethene	**381**	ug/m3	1.5	0.45	1.83		03/04/17 18:36	156-59-2	
cis-1,2-Dichloroethene	**586**	ug/m3	474	144	585.6		03/05/17 22:12	156-59-2	A3
trans-1,2-Dichloroethene	**7.5**	ug/m3	1.5	0.70	1.83		03/04/17 18:36	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 18:36	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 18:36	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 18:36	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 18:36	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 18:36	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 18:36	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/04/17 18:36	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 18:36	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 18:36	87-68-3	
n-Hexane	**<0.65**	ug/m3	1.3	0.65	1.83		03/04/17 18:36	110-54-3	
2-Hexanone	**1.3J**	ug/m3	7.6	0.75	1.83		03/04/17 18:36	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 18:36	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 18:36	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 18:36	108-87-2	
Methylene Chloride	**<0.99**	ug/m3	6.5	0.99	1.83		03/04/17 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 18:36	108-10-1	
Methyl-tert-butyl ether	**0.71J**	ug/m3	6.7	0.55	1.83		03/04/17 18:36	1634-04-4	
2-Propanol	**1.5J**	ug/m3	4.6	0.44	1.83		03/04/17 18:36	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/04/17 18:36	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 18:36	79-34-5	
Tetrachloroethene	**622**	ug/m3	1.3	0.51	1.83		03/04/17 18:36	127-18-4	
Tetrachloroethene	**998**	ug/m3	808	163	585.6		03/05/17 22:12	127-18-4	A3
Toluene	**2.7**	ug/m3	1.4	0.28	1.83		03/04/17 18:36	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 18:36	120-82-1	
1,1,1-Trichloroethane	**1.0J**	ug/m3	2.0	0.45	1.83		03/04/17 18:36	71-55-6	
1,1,2-Trichloroethane	**7.1**	ug/m3	1.0	0.45	1.83		03/04/17 18:36	79-00-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06432.D
Report Date: 06-Mar-2017 14:18

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06432.D
Lab Smp Id: 10379929016
Inj Date : 05-MAR-2017 22:12
Operator : CH1 Inst ID: 10air7.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 32
Dil Factor: 585.60000
Integrator: HP RTE Compound Sublist: 27836.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	585.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	36 cis-1,2-Dichloroethene	96	3.709	3.719	(0.825)	3680	0.24807	145(Q)
*	47 1,4-Difluorobenzene	114	4.497	4.504	(1.000)	597566	10.0000	
	51 Trichloroethene	130	4.828	4.835	(1.074)	116256	4.12344	2410
	61 1,1,2-Trichloroethane	97	Compound Not Detected.					
	66 Tetrachloroethene	166	6.680	6.683	(0.915)	9278	0.24724	145
*	67 Chlorobenzene - d5	117	7.304	7.310	(1.000)	378473	10.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06432.D
Report Date: 06-Mar-2017 14:18

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06432.D
Lab Smp Id: 10379929016
Analysis Type: VOA
Quant Type: ISTD
Operator: CH1
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info: 27836

Calibration Date: 05-MAR-2017
Calibration Time: 10:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	597566	-28.52
67 Chlorobenzene - d	539522	323713	755331	378473	-29.85

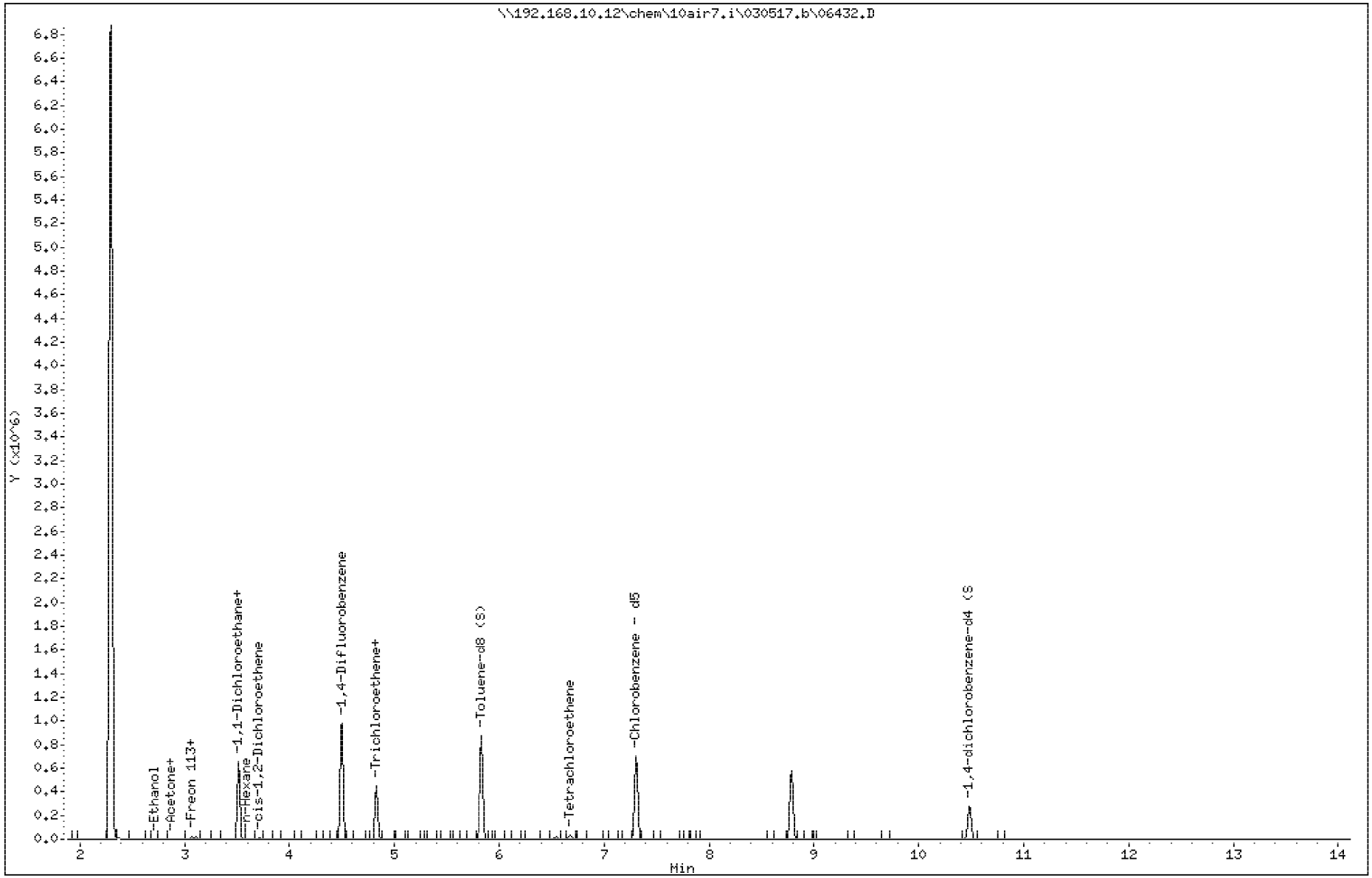
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.50	4.17	4.83	4.50	-0.15
67 Chlorobenzene - d	7.31	6.98	7.64	7.30	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06432.D
Date : 05-MAR-2017 22:12
Client ID:
Sample Info:

Column phase: J&W DB-5

Instrument: 10air7.i
Operator: CH1
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06432.D

Date : 05-MAR-2017 22:12

Client ID:

Instrument: 10air7.i

Sample Info:

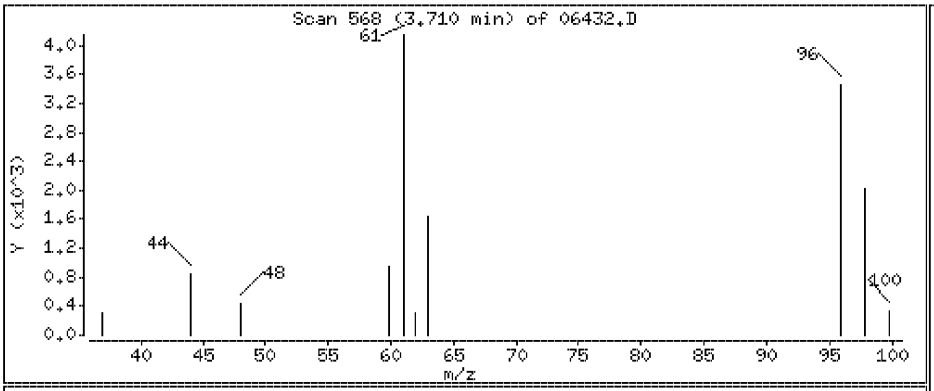
Operator: CH1

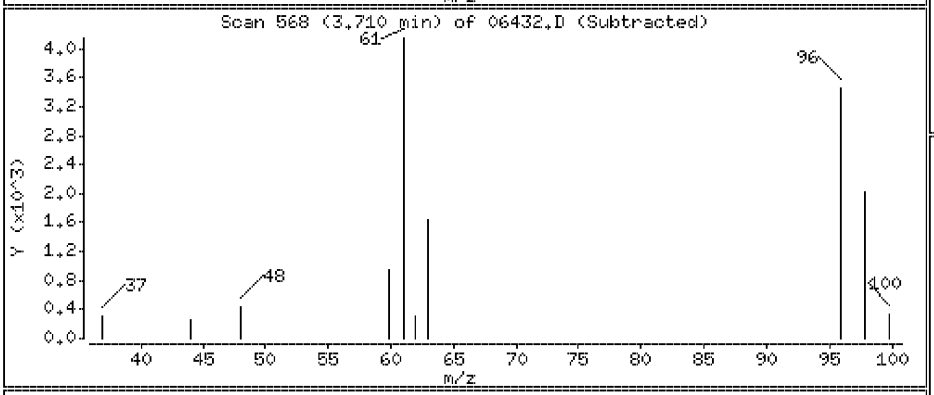
Column phase: J&W DB-5

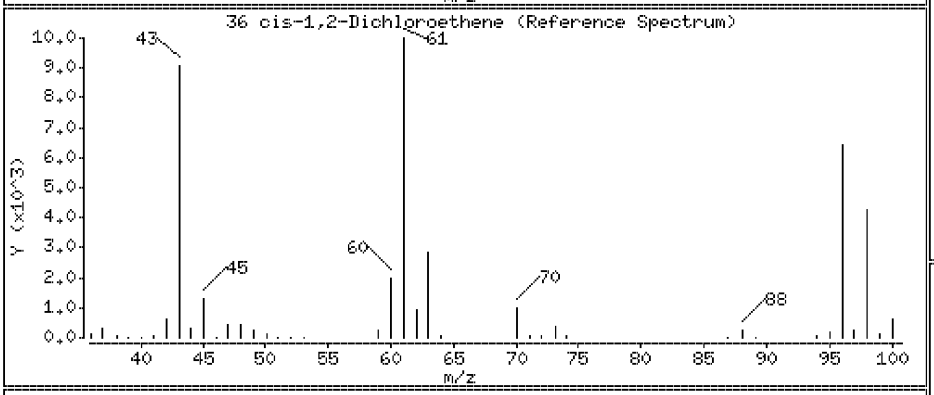
Column diameter: 0.32

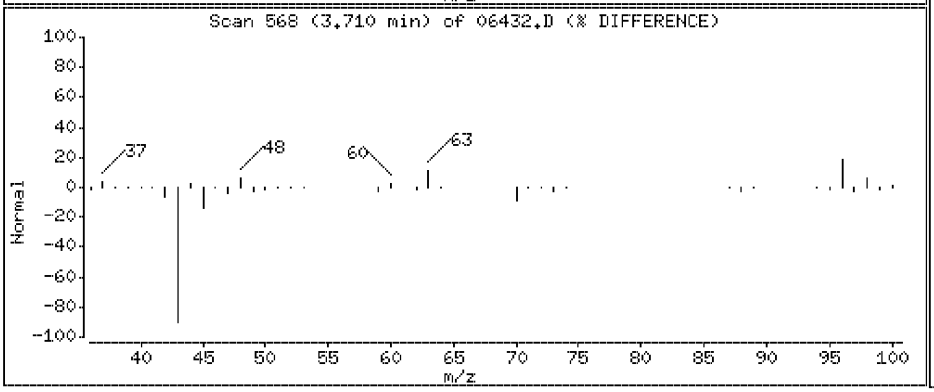
36 cis-1,2-Dichloroethene

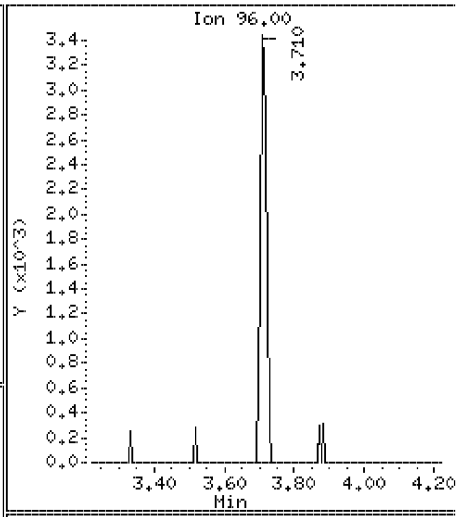
Concentration: 145 ppbv

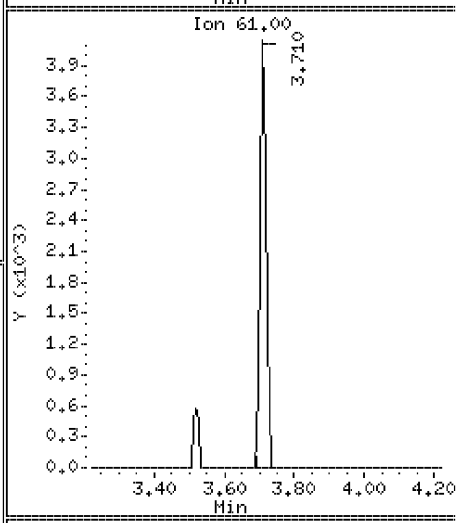


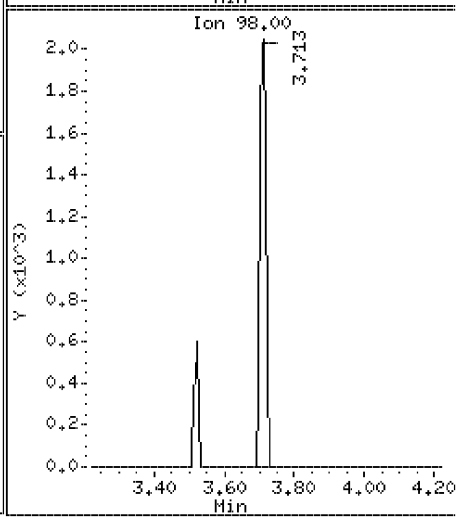












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06432.D

Date : 05-MAR-2017 22:12

Client ID:

Instrument: 10air7.i

Sample Info:

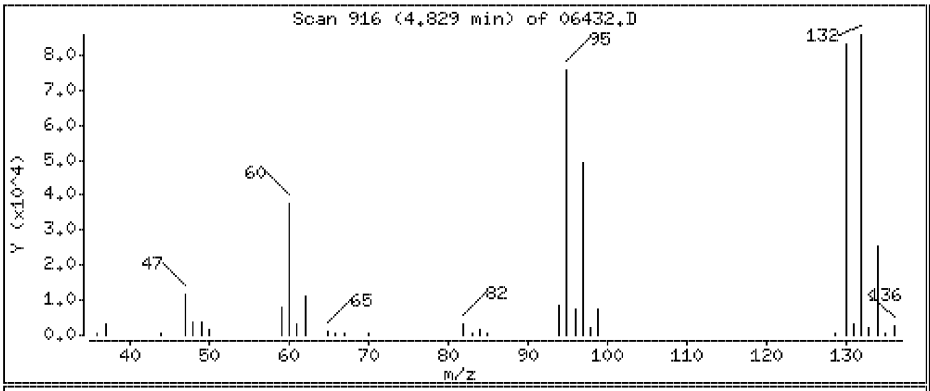
Operator: CH1

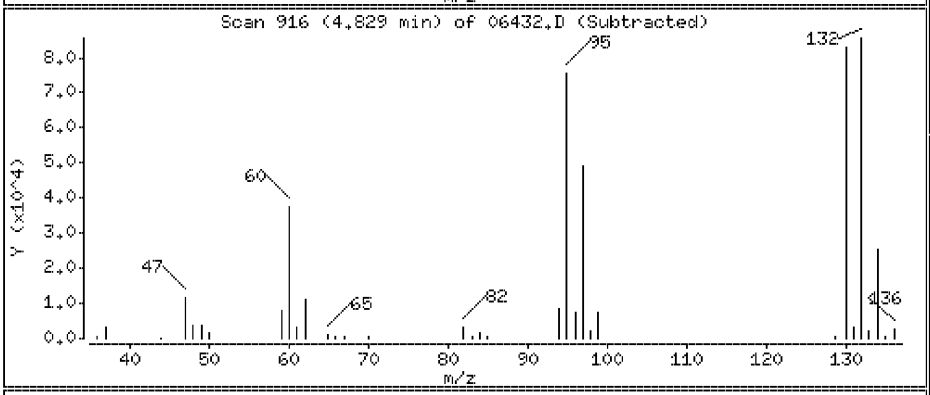
Column phase: J&W DB-5

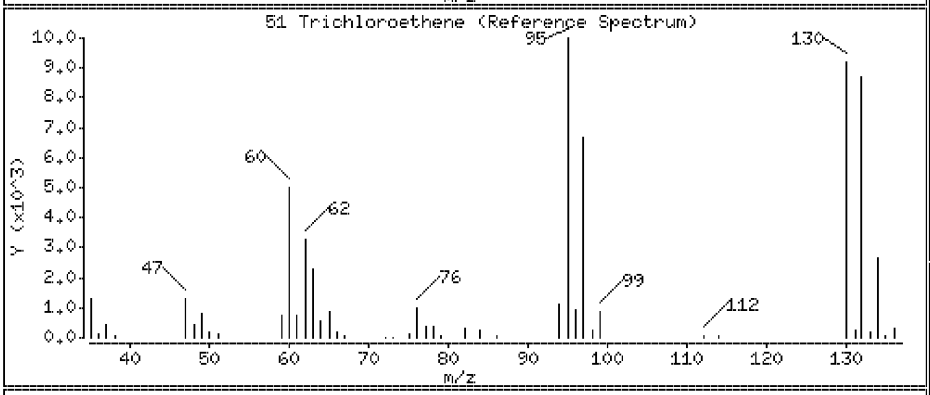
Column diameter: 0.32

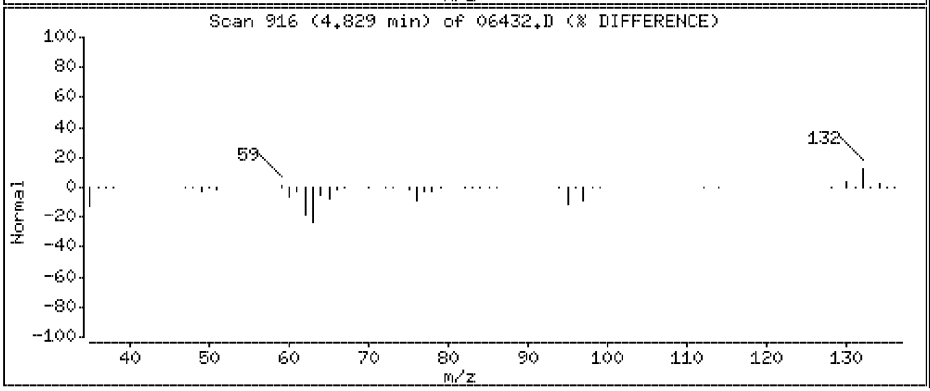
51 Trichloroethene

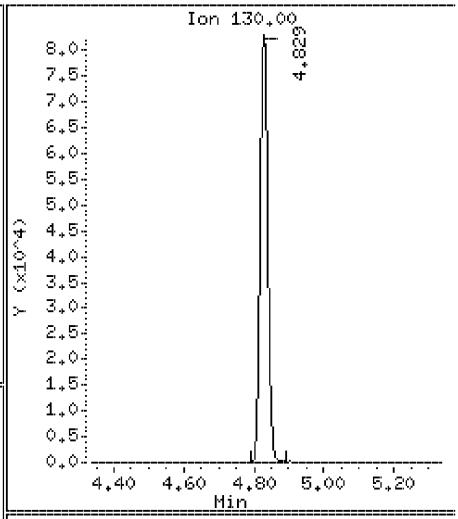
Concentration: 2410 ppbv

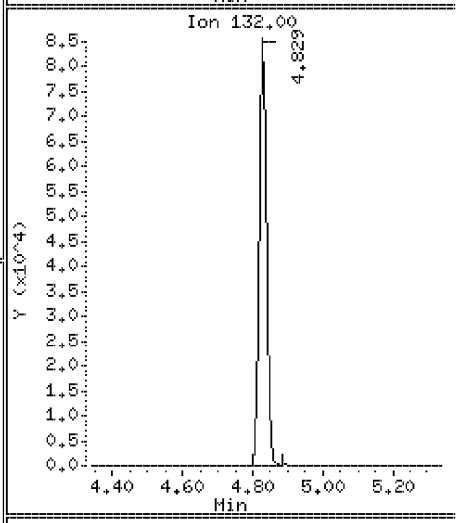


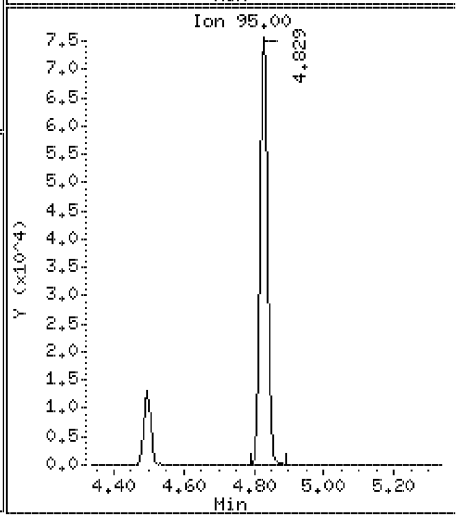












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06432.D

Date : 05-MAR-2017 22:12

Client ID:

Instrument: 10air7.i

Sample Info:

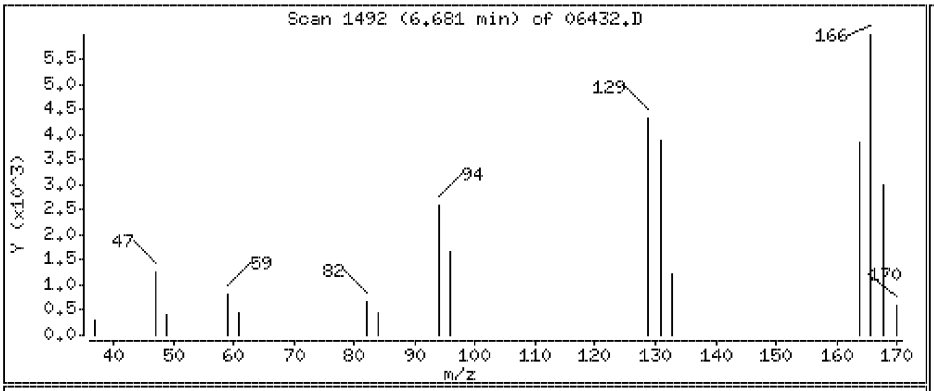
Operator: CH1

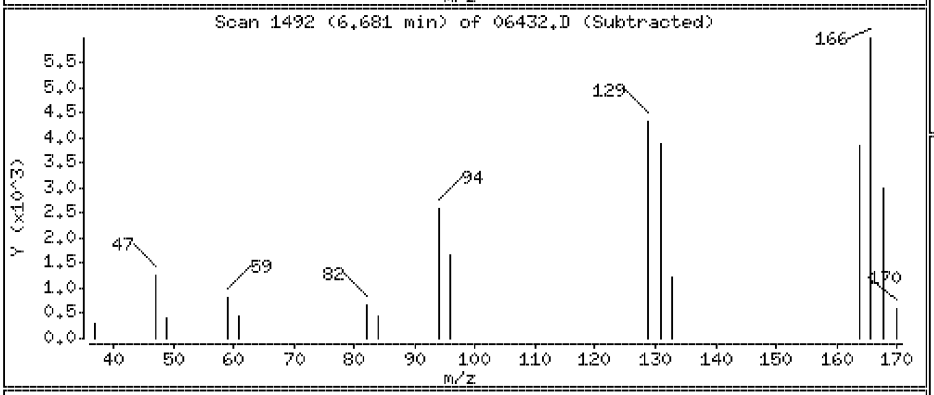
Column phase: J&W DB-5

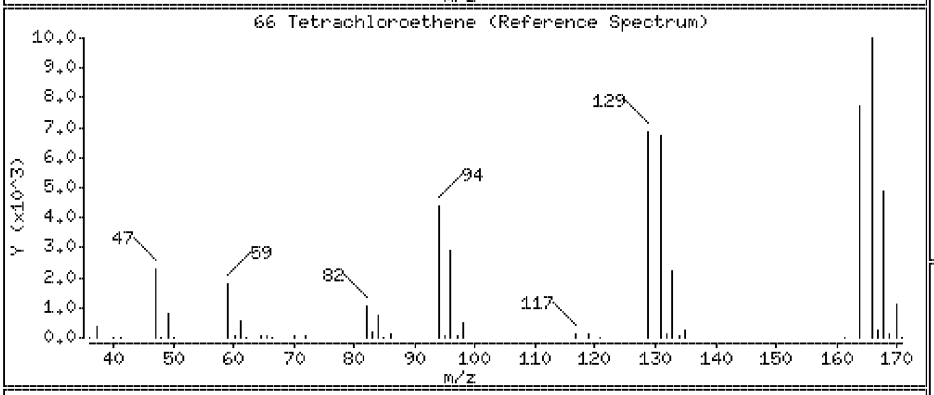
Column diameter: 0.32

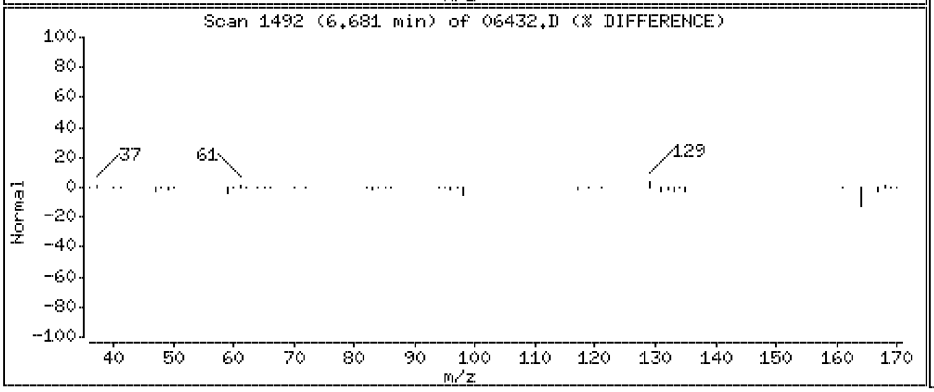
66 Tetrachloroethene

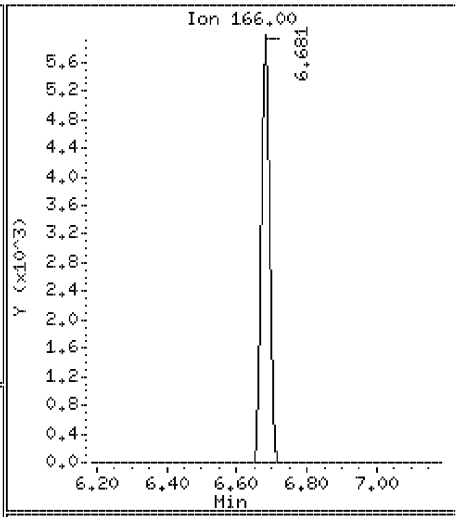
Concentration: 145 ppbv

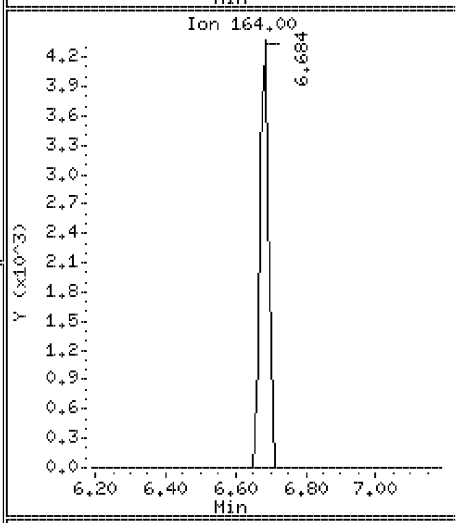


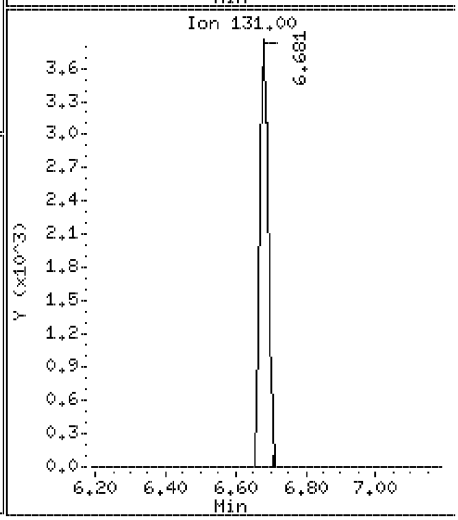












Data File: \\192.168.10.12\chem\10air7.i\030517.b/06432.D
Injection Date: 05-MAR-2017 22:12
Instrument: 10air7.i
Lab Sample ID: 10379929016
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D
Report Date: 09-Mar-2017 13:46

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06324.D
Lab Smp Id: 10379929016
Inj Date : 04-MAR-2017 18:36
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 08-Mar-2017 14:47 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 24
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.996	3.028	(0.533)	93939	25.5185	46.7(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.025	3.060	(0.538)	11244	0.22442	0.411(M)	
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	3.205	3.234	(0.570)	1546	0.11860	0.217(H)	
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.545	(0.632)	10026	2.07756	3.80	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.645	3.674	(0.649)	68282	1.89635	3.47	
17	Acrolein	56	3.687	3.684	(0.656)	3062	0.82453	1.51(Q)	
18	Acetone	43	3.726	3.722	(0.663)	85402	4.09824	7.50(Q)	
19	Isopropyl Alcohol	45	3.774	3.767	(0.672)	6792	0.31958	0.585	
20	1,1-Dichloroethene	61	3.893	3.909	(0.693)	13129	0.62695	1.15	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.947	3.951	(0.702)	825497	30.3596	55.6(A)	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D
Report Date: 09-Mar-2017 13:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.256	4.275	(0.757)	11999	1.02122	1.87	
	29 Methyl Tert Butyl Ether	73	4.327	4.304	(0.770)	3563	0.10638	0.195(Q)	
	30 Vinyl Acetate	43	4.459	4.391	(0.793)	22425	0.81305	1.49(H)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.798)	380431	9.10440	9.10	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.709	4.725	(0.838)	677677	51.6219	94.5(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.822	4.841	(0.858)	168357	6.18751	11.3	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.227	5.233	(0.930)	3248	0.10147	0.186	
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.471	5.468	(0.974)	4605	0.10872	0.199	
	44 Carbon tetrachloride	117	5.481	5.484	(0.975)	1828	0.05714	0.105	
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.619	5.613	(1.000)	1313373	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.002	5.989	(1.068)	6875547	311.574	570(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.082	7.076	(1.260)	1103301	9.38576	9.39	
	60 1,1,2-Trichloroethane	97	7.150	7.143	(1.272)	12259	0.69594	1.27	
	61 Toluene	91	7.163	7.153	(1.275)	20694	0.39012	0.714	
	62 Methyl Butyl Ketone	43	7.381	7.372	(0.854)	4377	0.16425	0.301	
	63 n-Octane	43	7.574	7.584	(0.876)	11057	0.38314	0.701(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.995	7.986	(0.925)	1445161	49.3273	90.3(A)	
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	843719	10.0000		
	68 Chlorobenzene	112	8.690	8.687	(1.005)	4272	0.10209	0.187(M)	
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	9.500	9.468	(1.099)	6594	0.26248	0.480(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D
Report Date: 09-Mar-2017 13:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	474350	10.2060	10.2	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.639)	9241	0.60267	1.10	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D
Report Date: 09-Mar-2017 13:46

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06324.D
Lab Smp Id: 10379929016
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

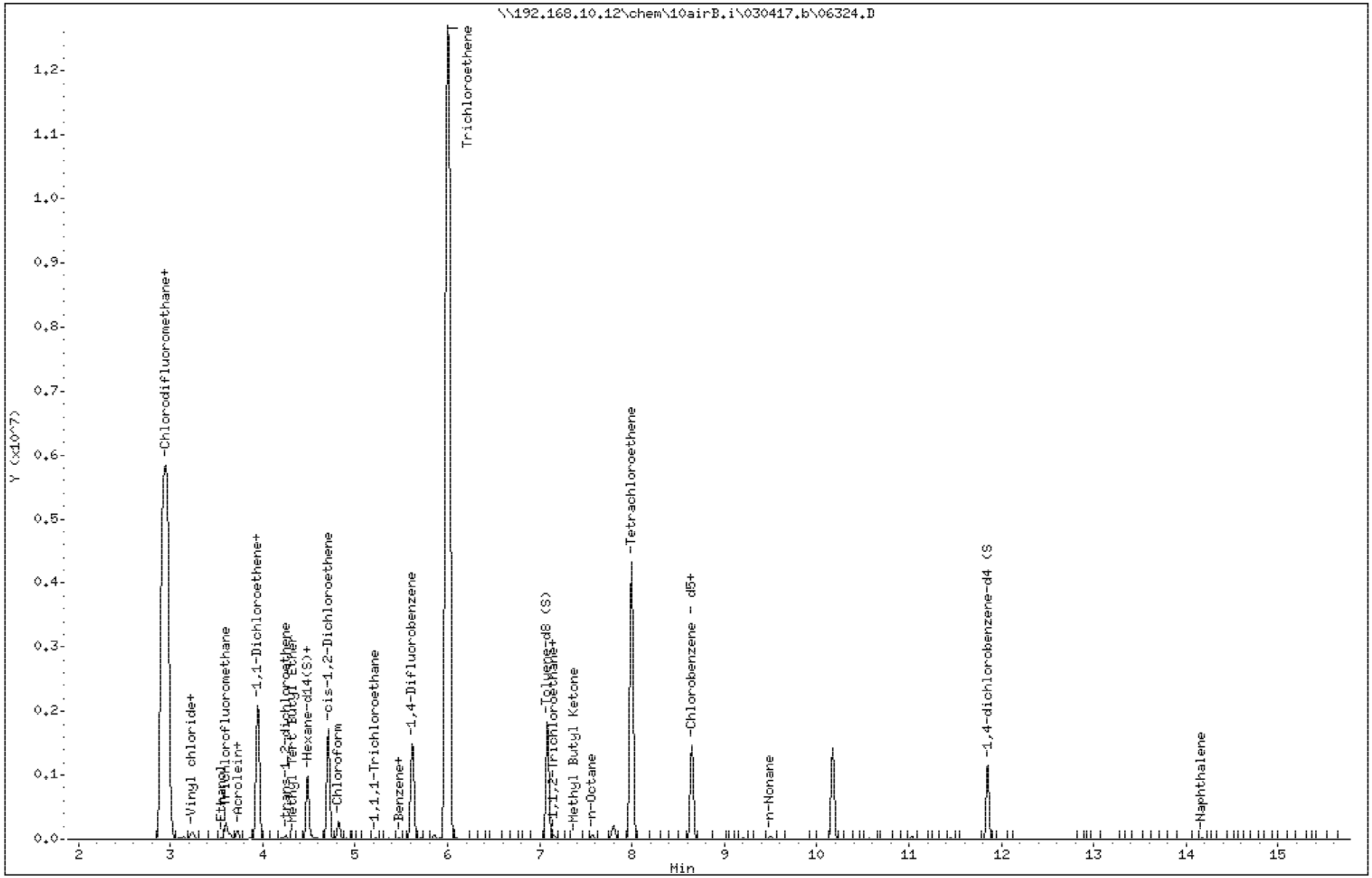
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1313373	-7.12
67 Chlorobenzene - d	951026	570616	1331436	843719	-11.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.12
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D
Date : 04-MAR-2017 18:36
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

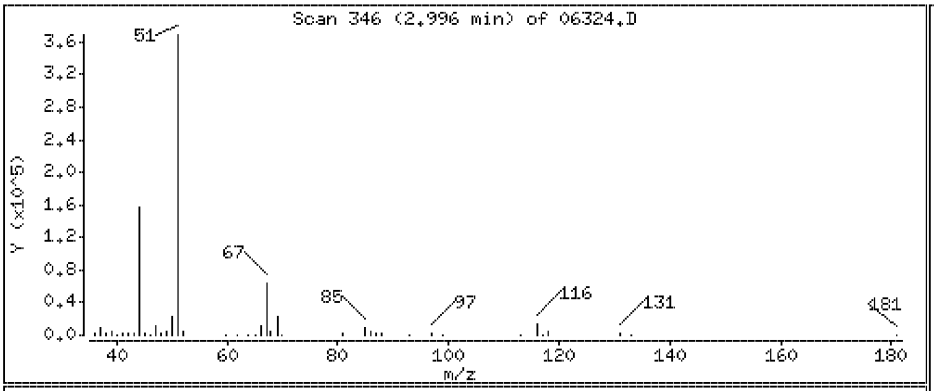
Operator: MJL

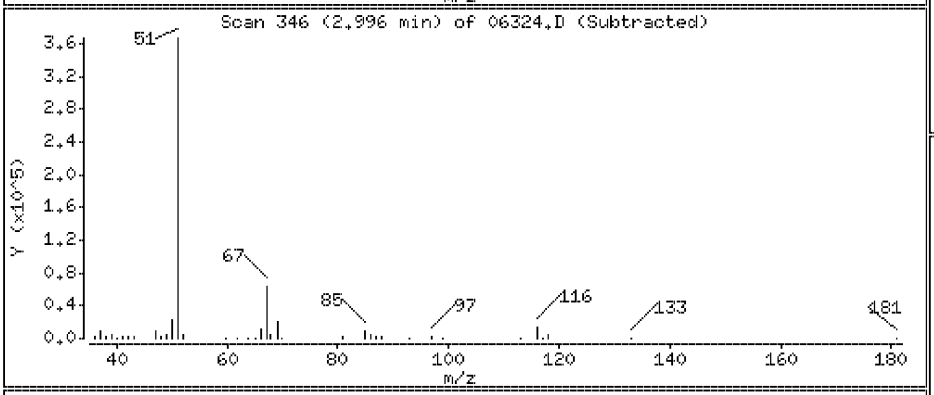
Column phase: J&W DB-5

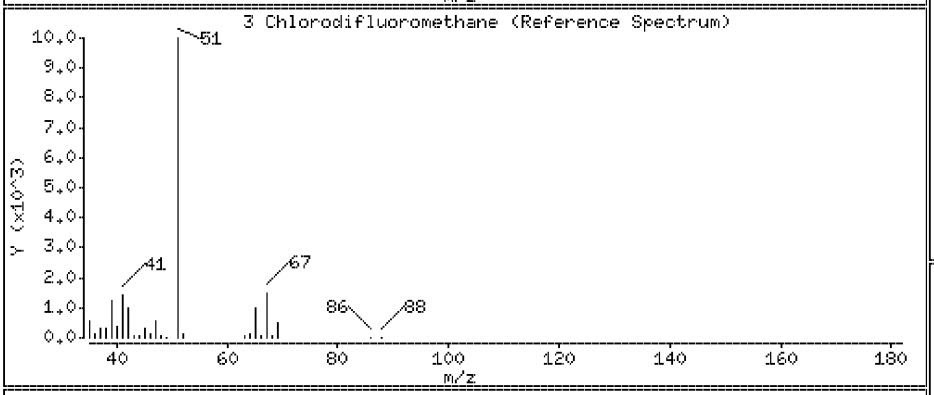
Column diameter: 0.32

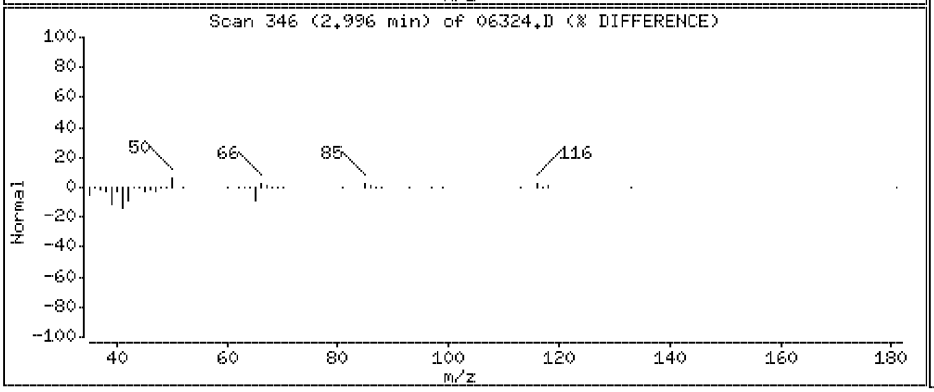
3 Chlorodifluoromethane

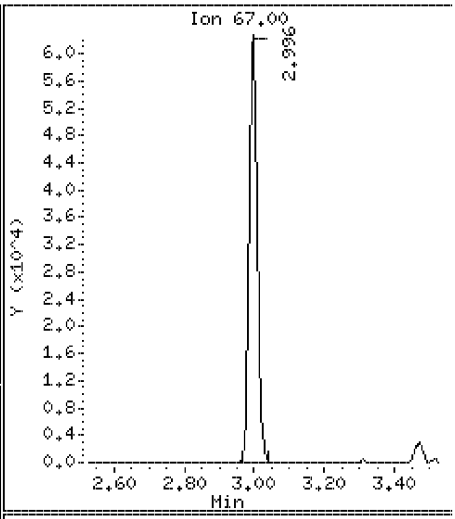
Concentration: 46.7 ppbv

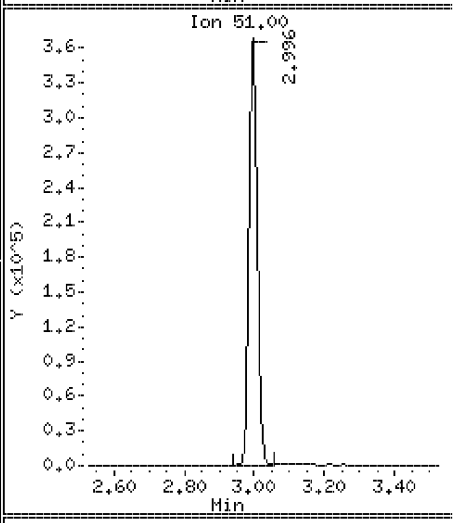


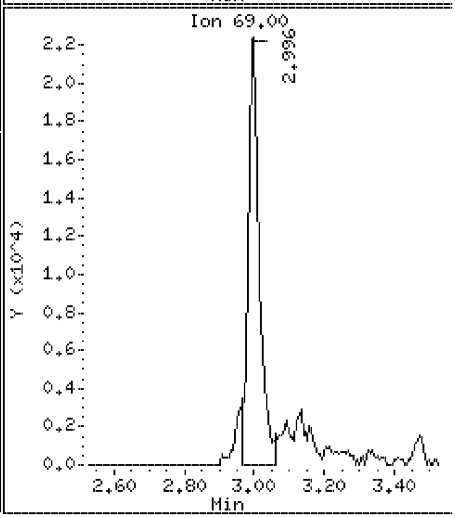












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

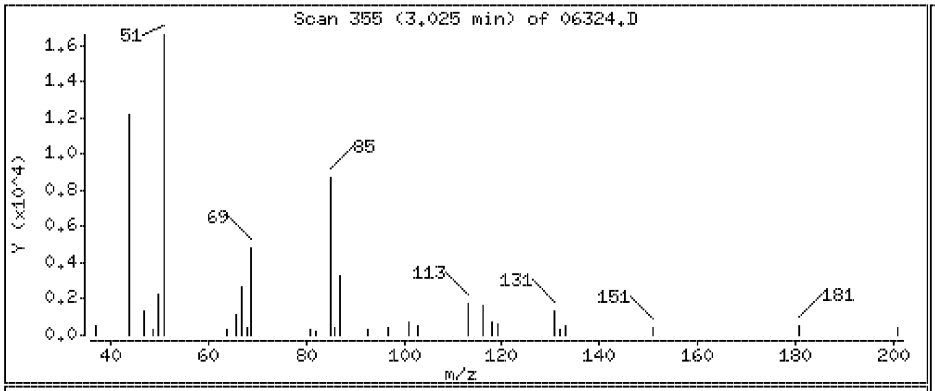
Operator: MJL

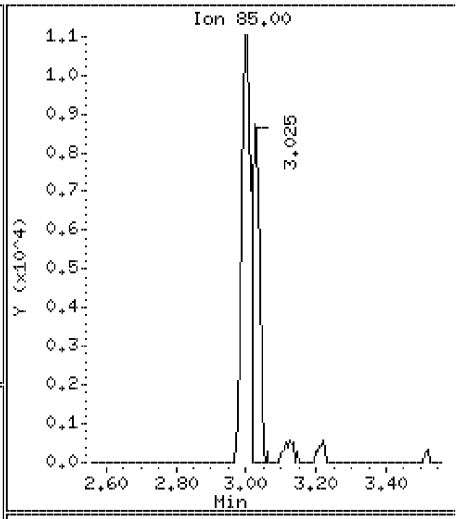
Column phase: J&W DB-5

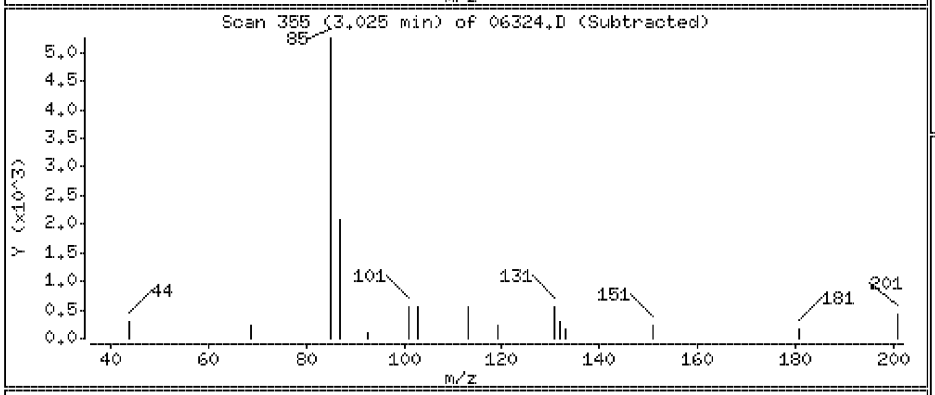
Column diameter: 0.32

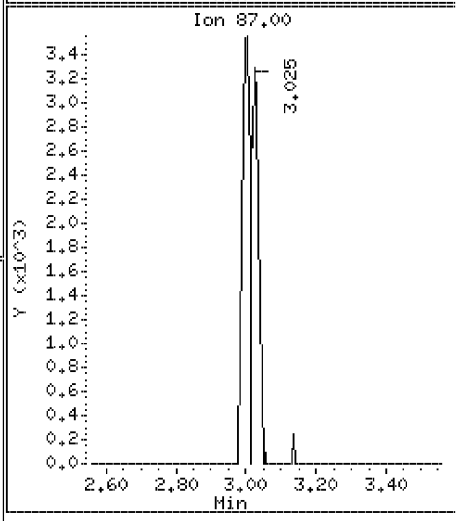
5 Dichlorodifluoromethane

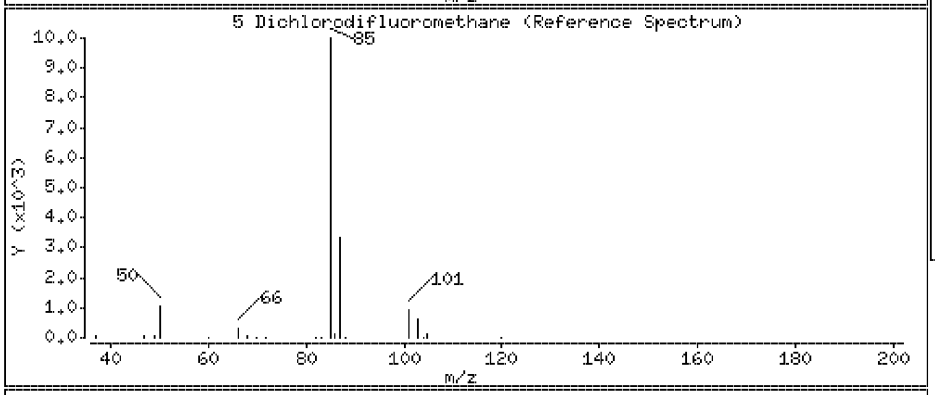
Concentration: 0.411 ppbv

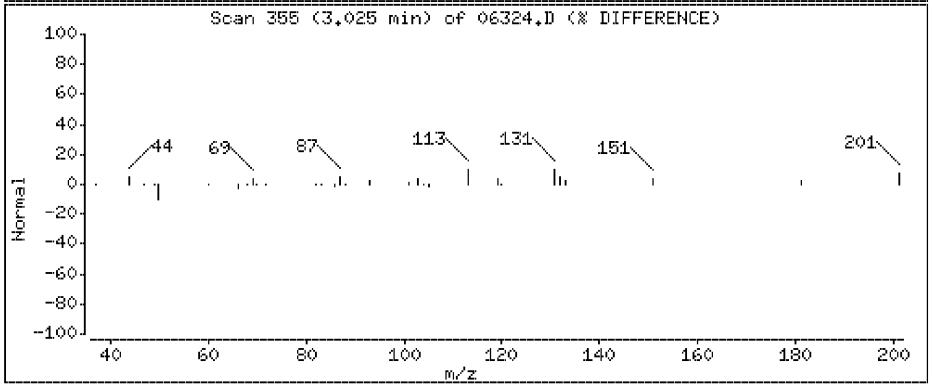












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

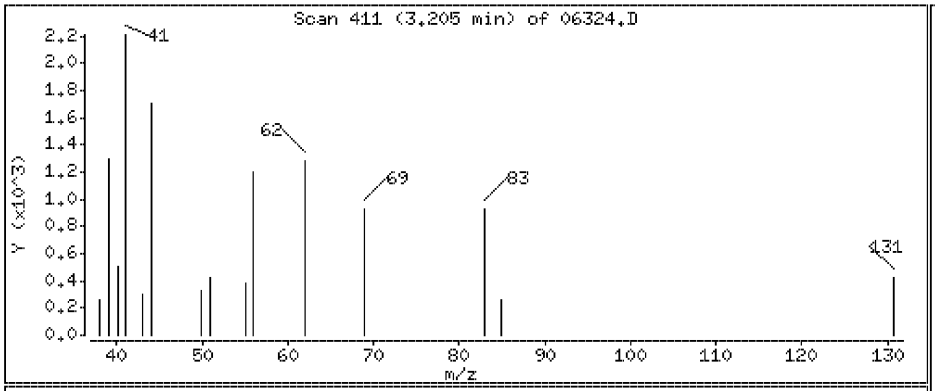
Operator: MJL

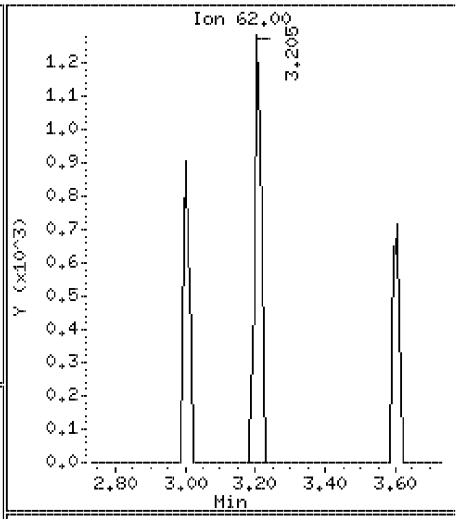
Column phase: J&W DB-5

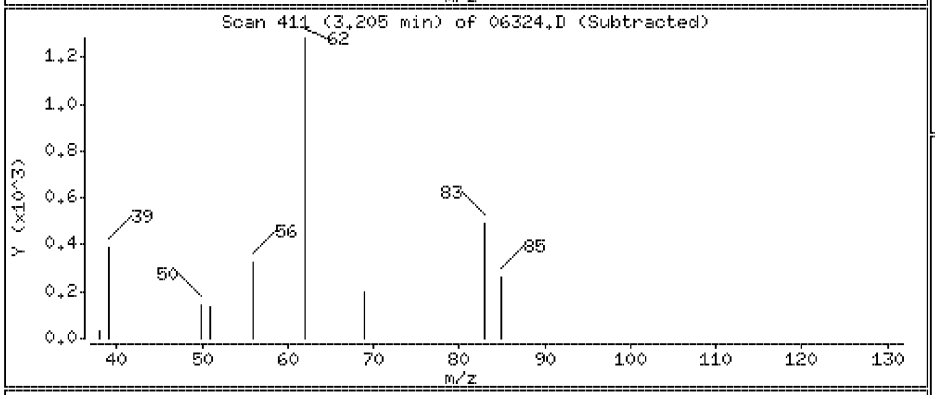
Column diameter: 0.32

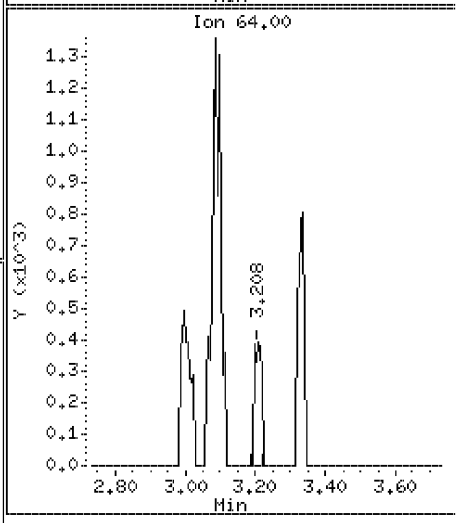
8 Vinyl chloride

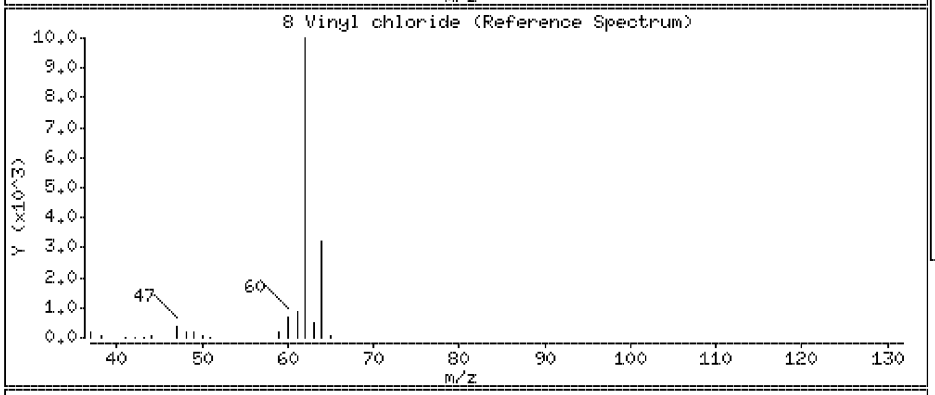
Concentration: 0.217 ppbv

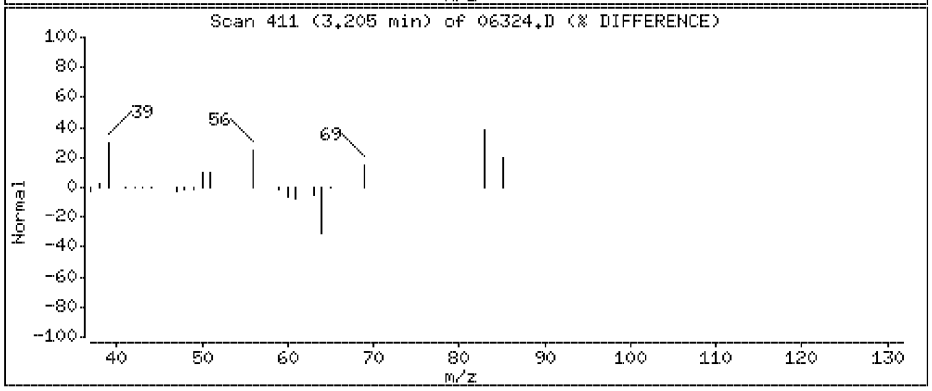












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

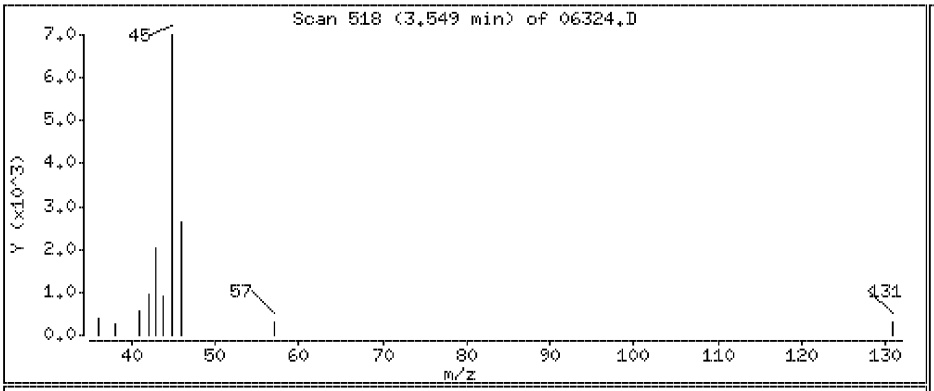
Operator: MJL

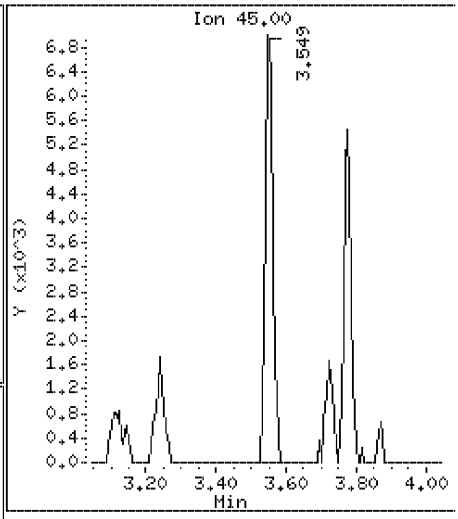
Column phase: J&W DB-5

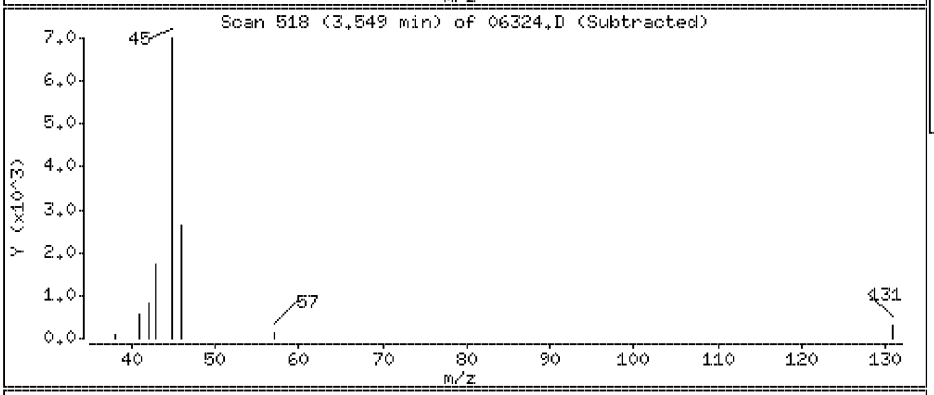
Column diameter: 0.32

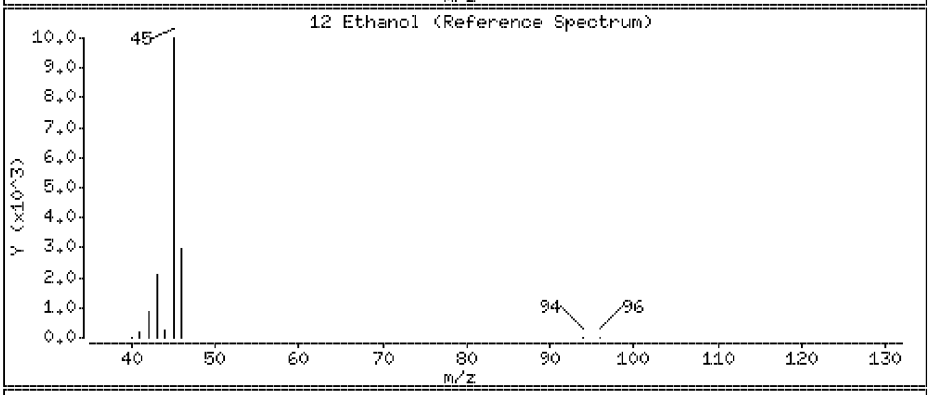
12 Ethanol

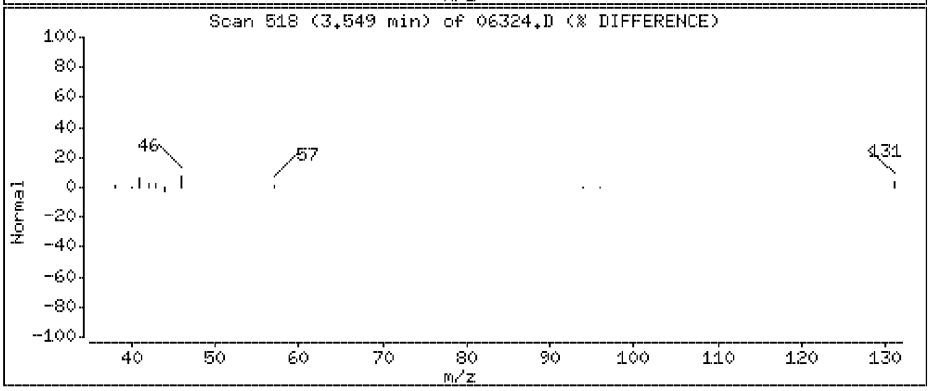
Concentration: 3.80 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

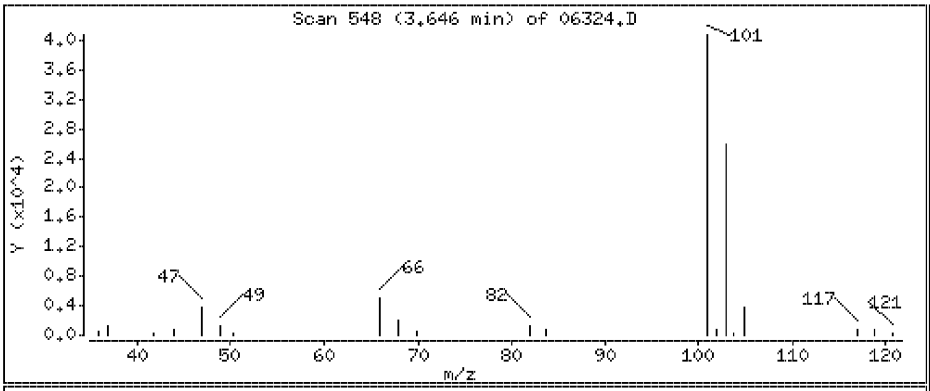
Operator: MJL

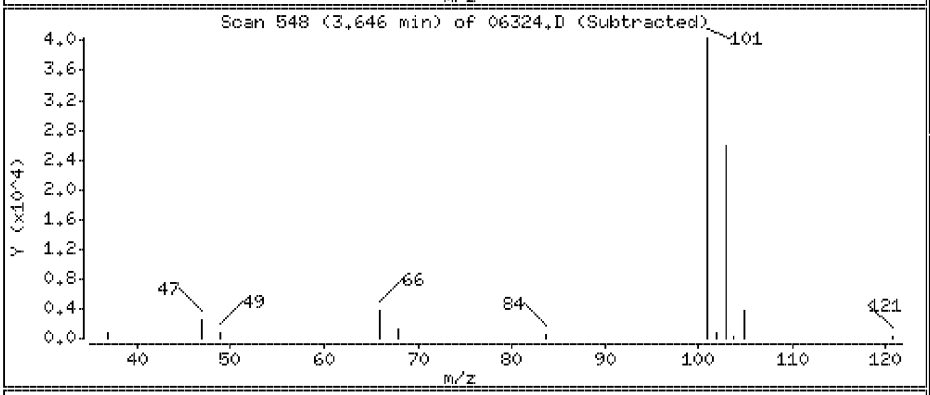
Column phase: J&W DB-5

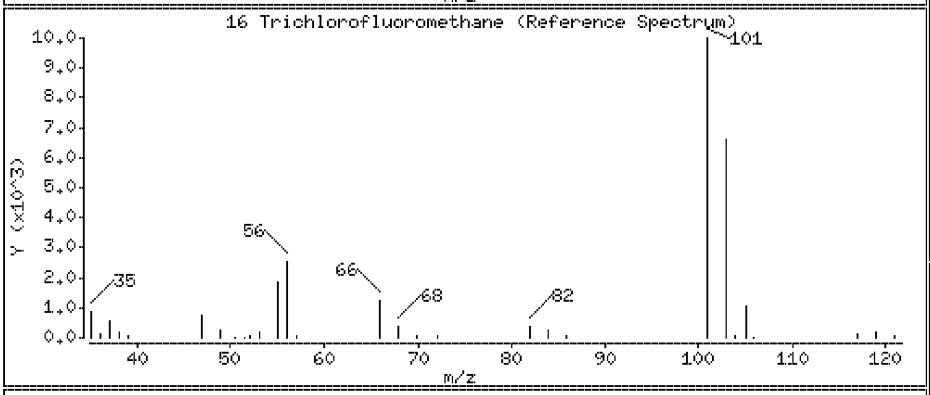
Column diameter: 0.32

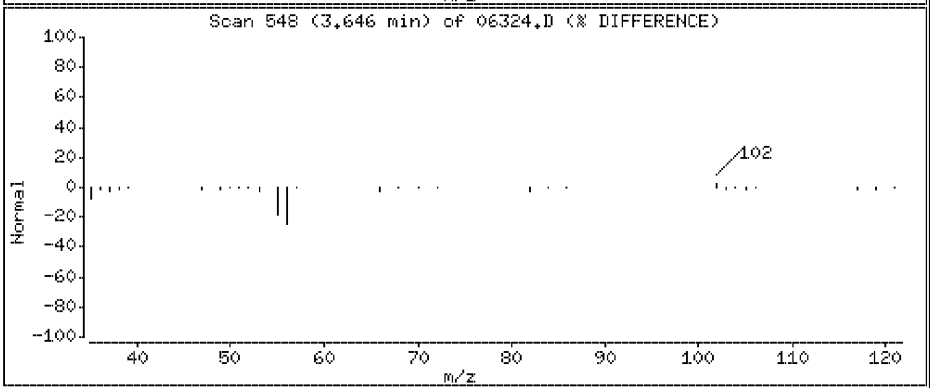
16 Trichlorofluoromethane

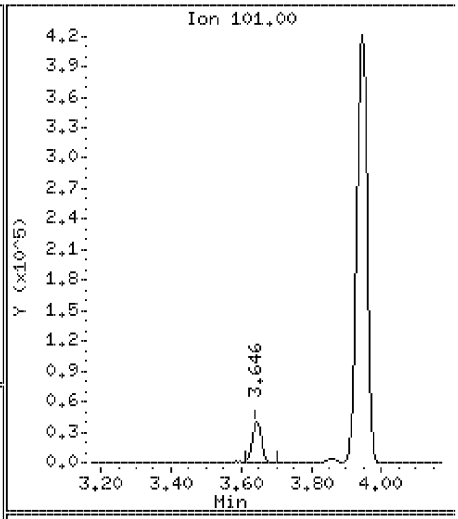
Concentration: 3.47 ppbv

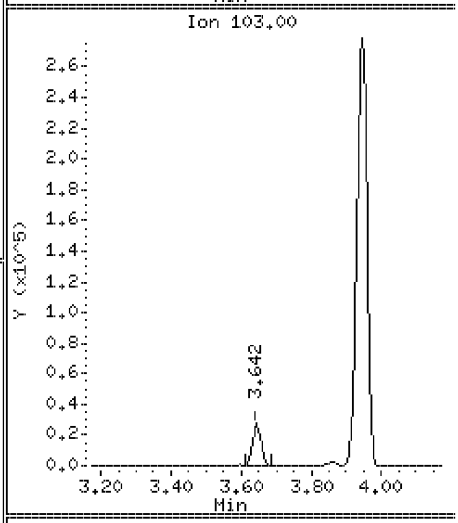


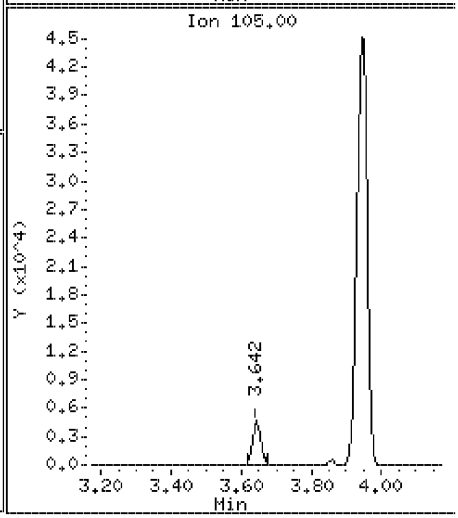












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

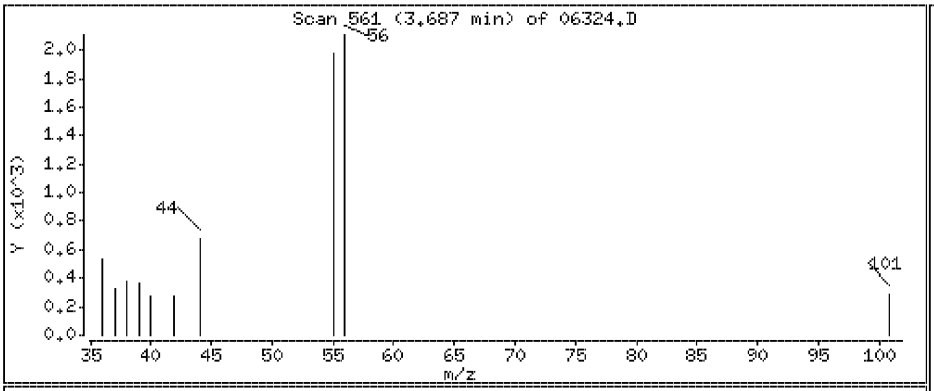
Operator: MJL

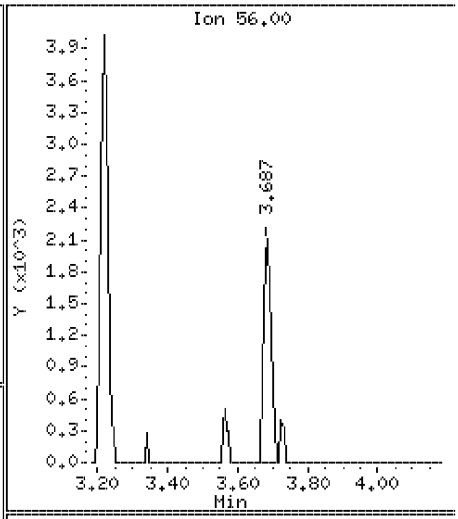
Column phase: J&W DB-5

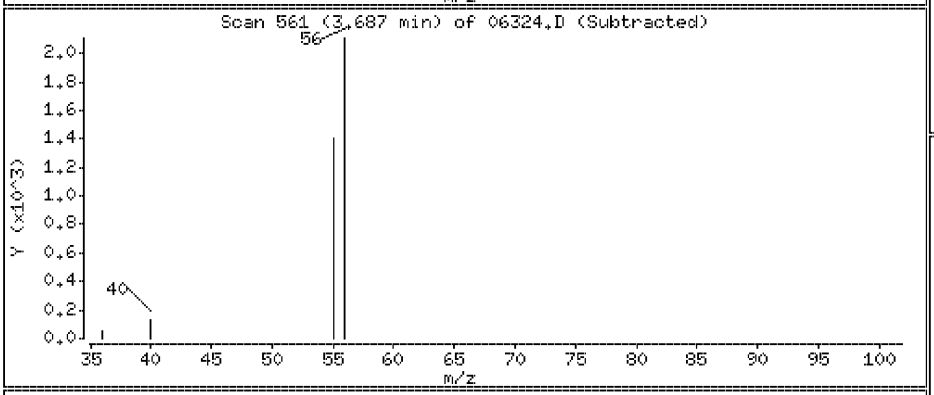
Column diameter: 0.32

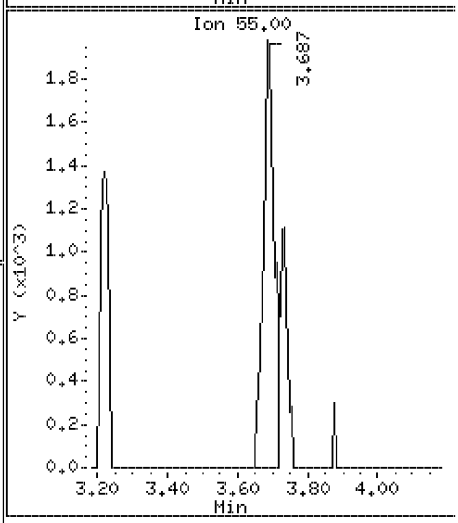
17 Acrolein

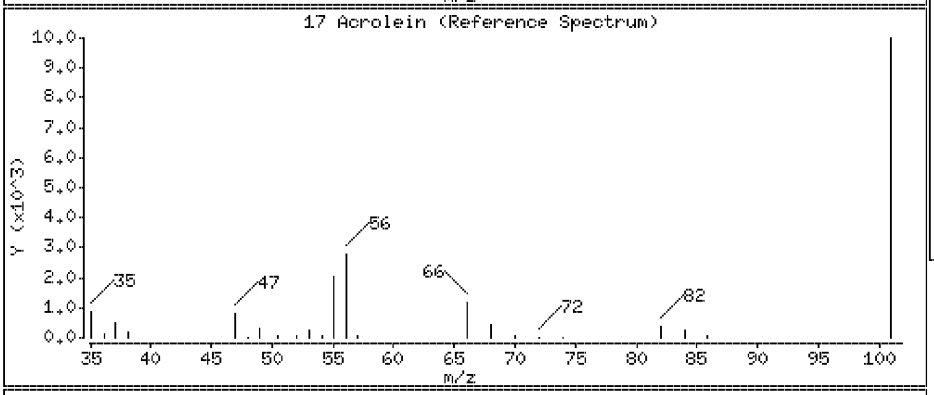
Concentration: 1.51 ppbv

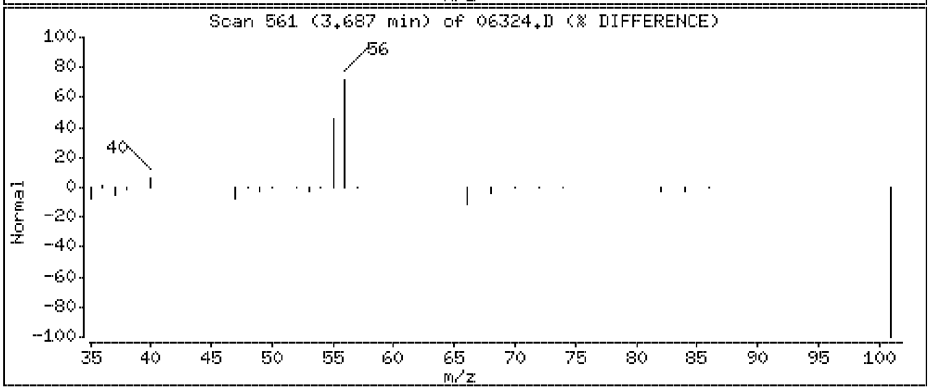












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

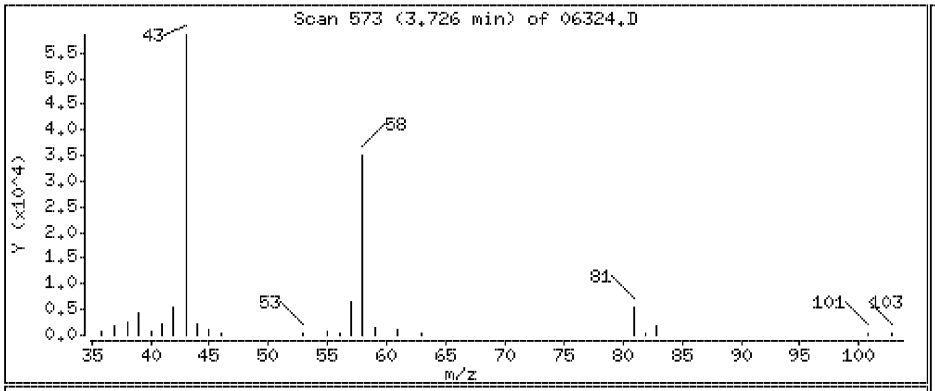
Operator: MJL

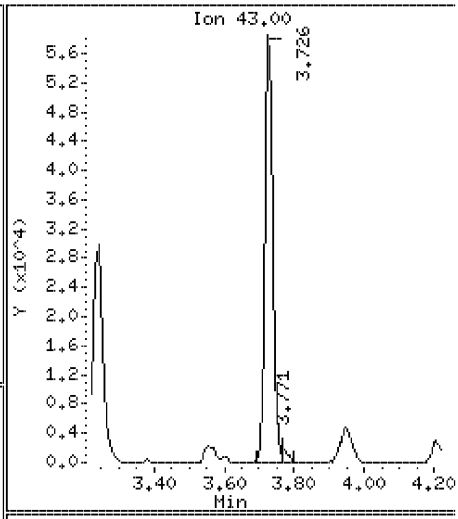
Column phase: J&W DB-5

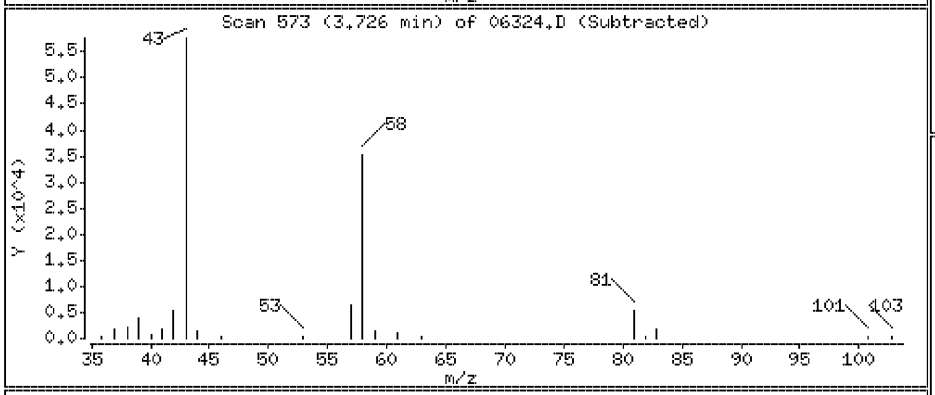
Column diameter: 0.32

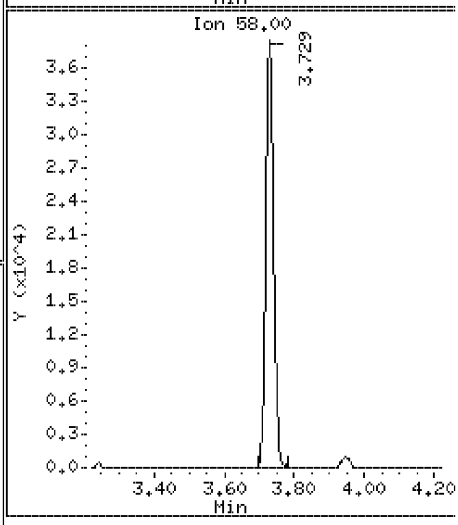
18 Acetone

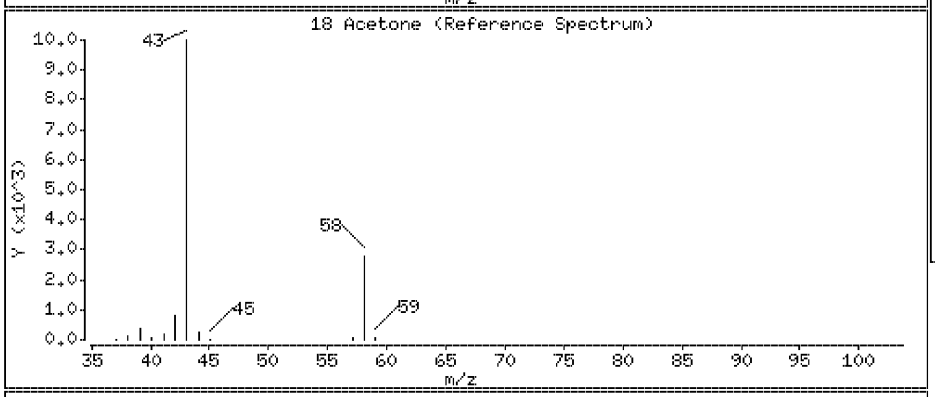
Concentration: 7.50 ppbv

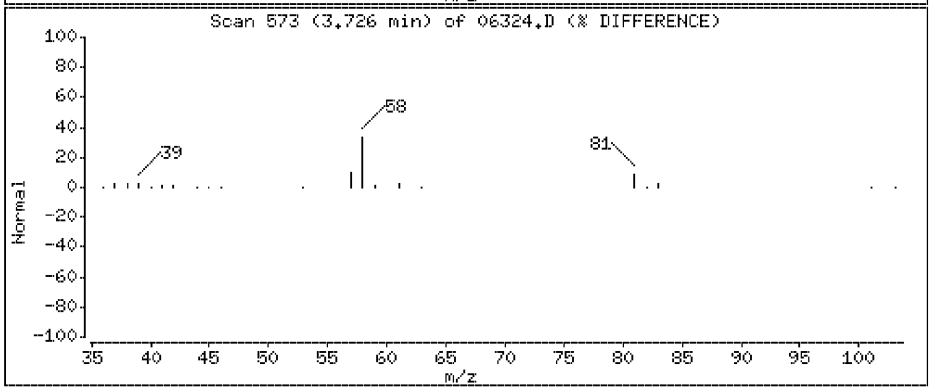












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

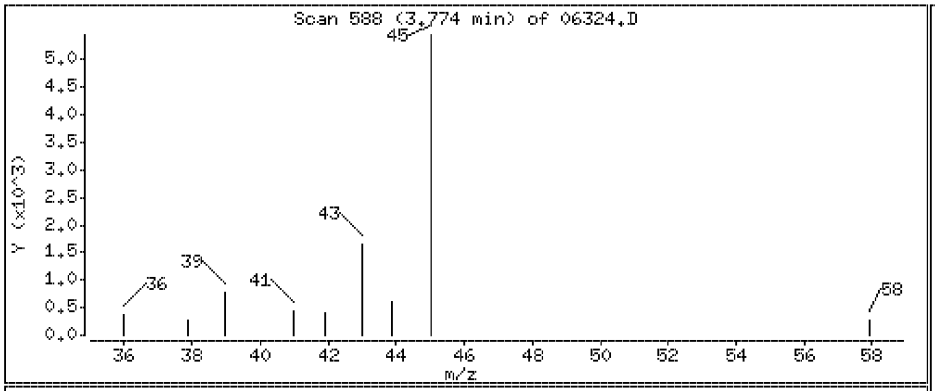
Operator: MJL

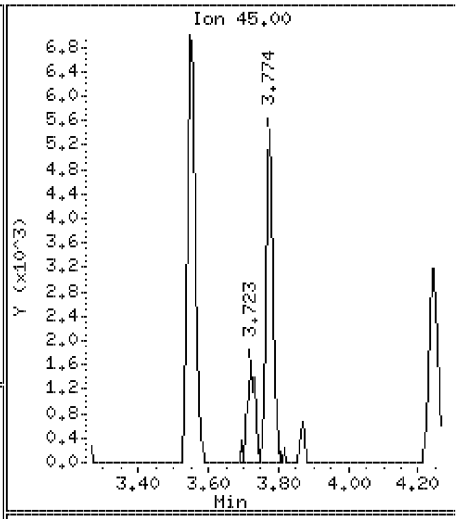
Column phase: J&W DB-5

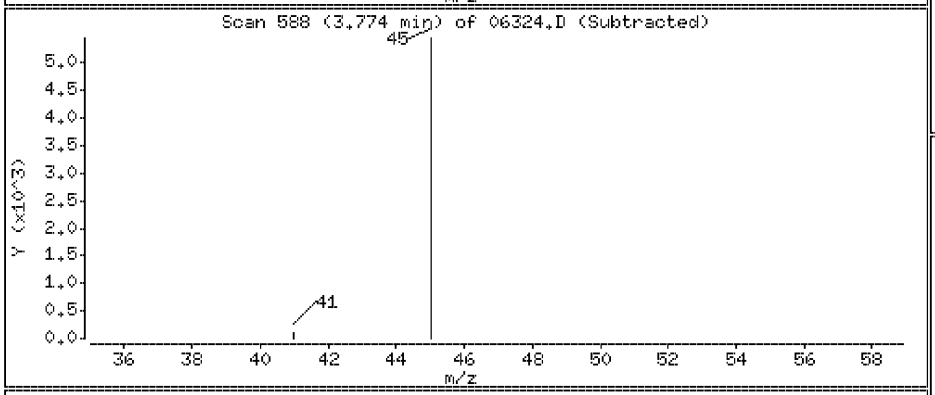
Column diameter: 0.32

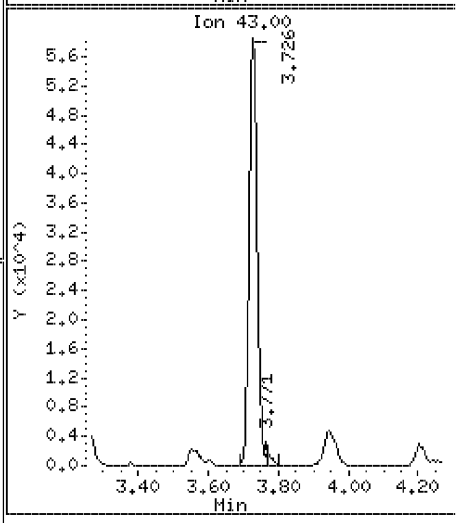
19 Isopropyl Alcohol

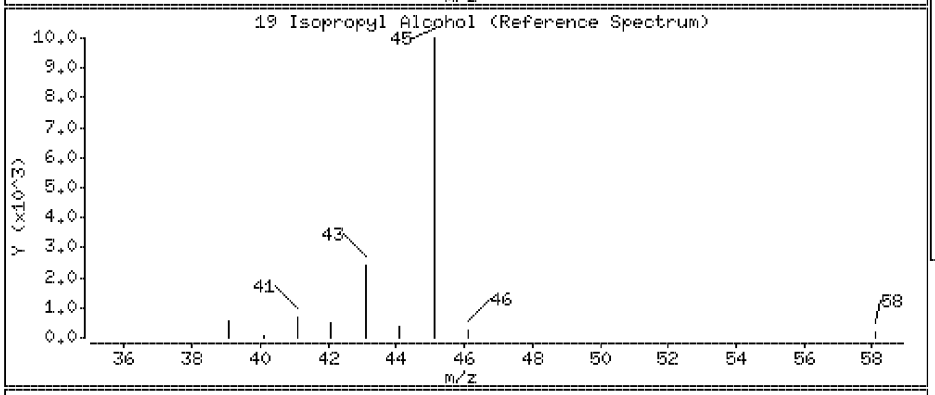
Concentration: 0.585 ppbv

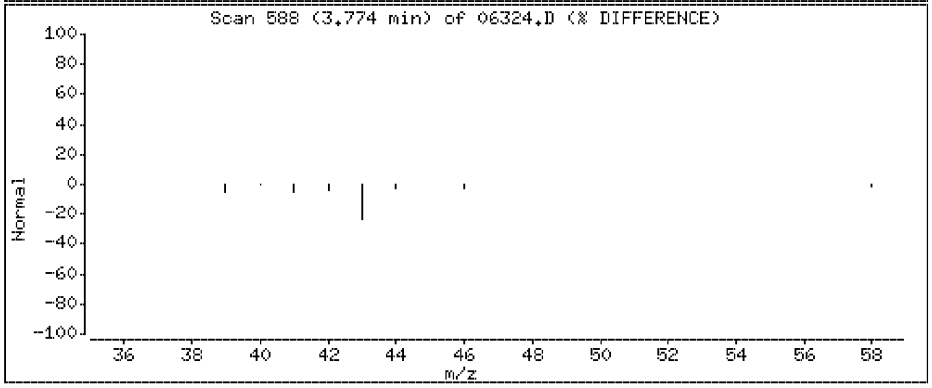












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

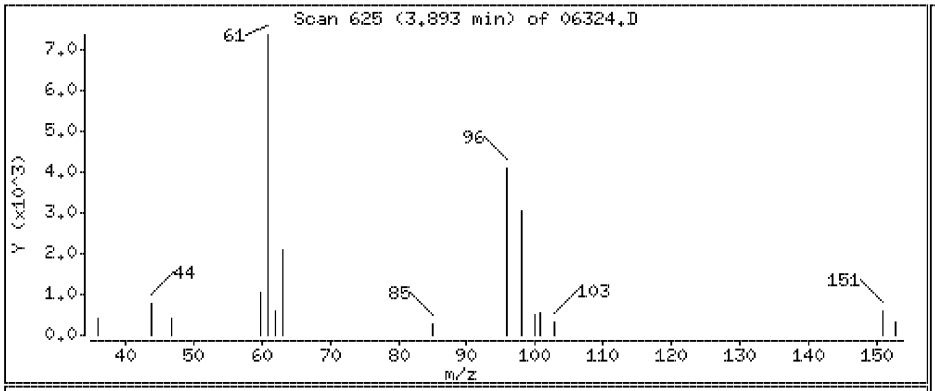
Operator: MJL

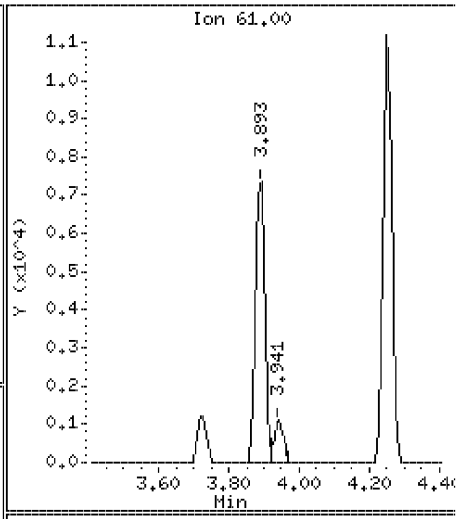
Column phase: J&W DB-5

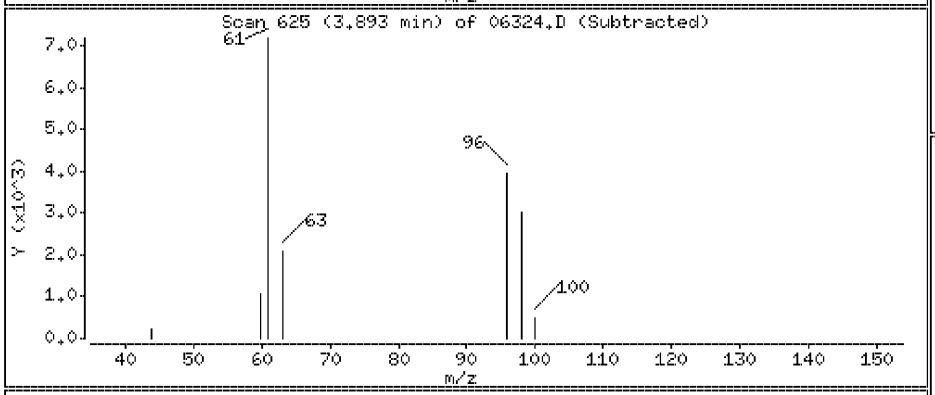
Column diameter: 0.32

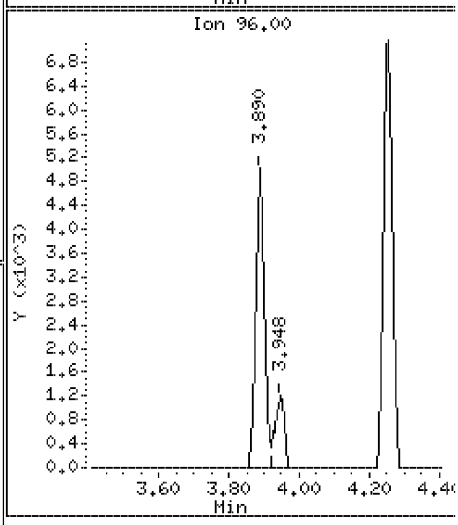
20 1,1-Dichloroethene

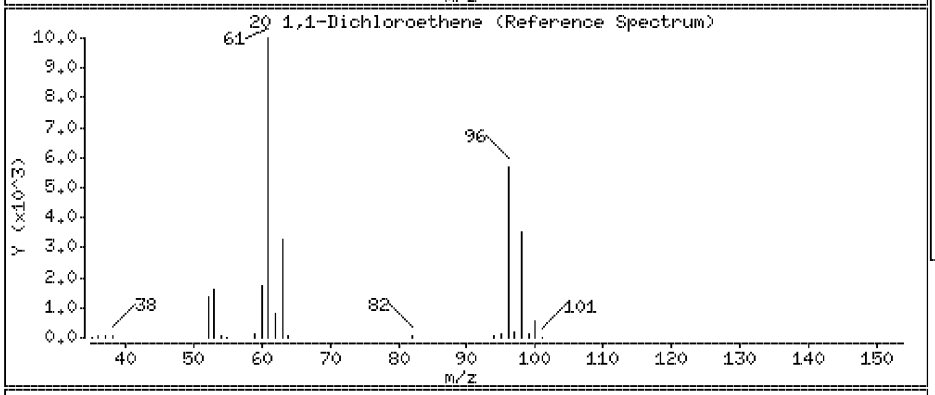
Concentration: 1.15 ppbv

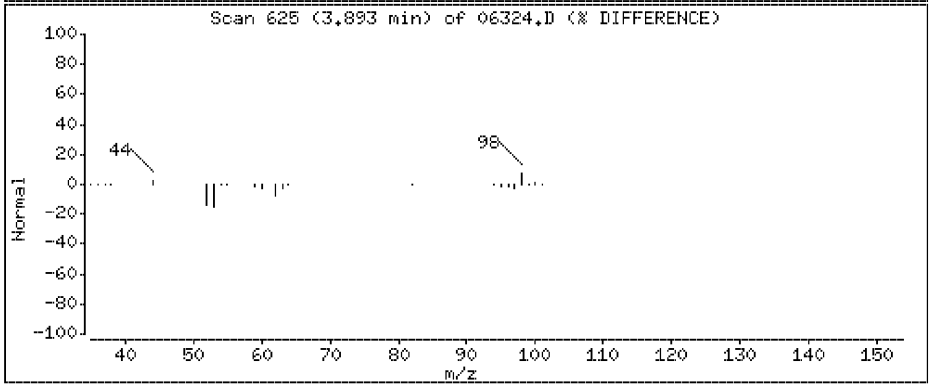












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

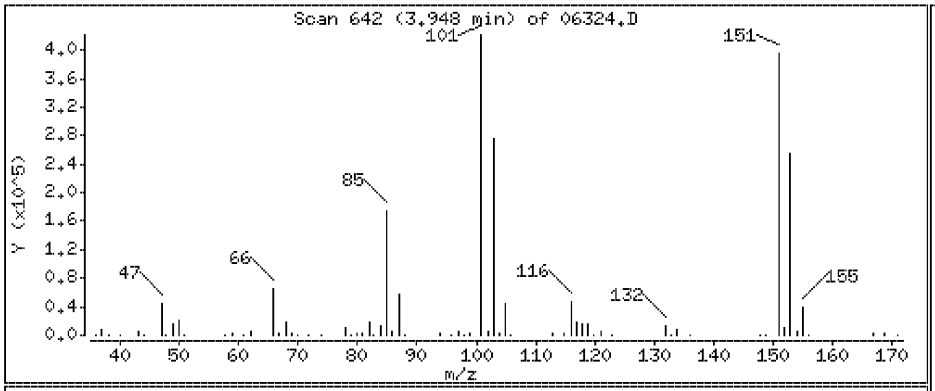
Operator: MJL

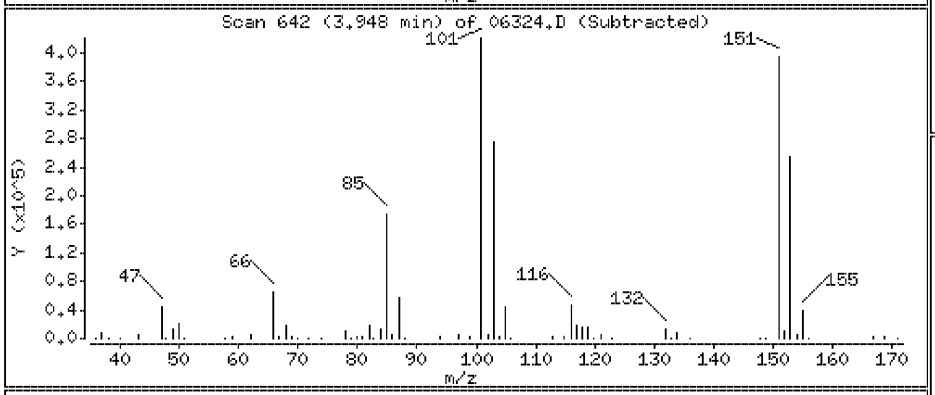
Column phase: J&W DB-5

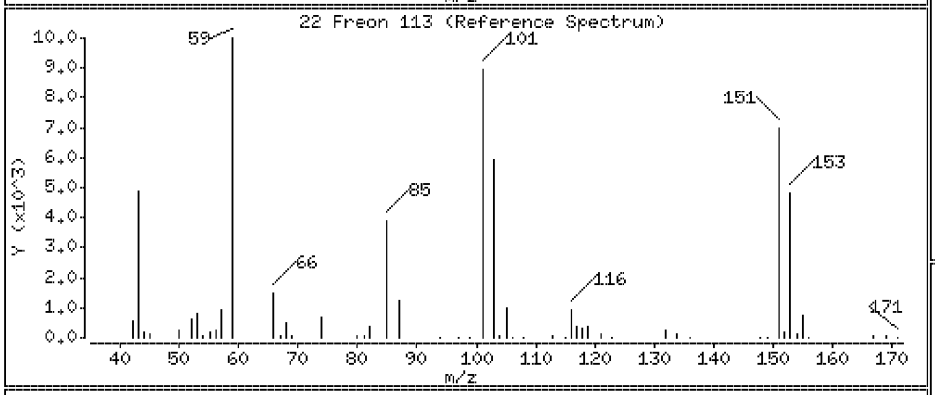
Column diameter: 0.32

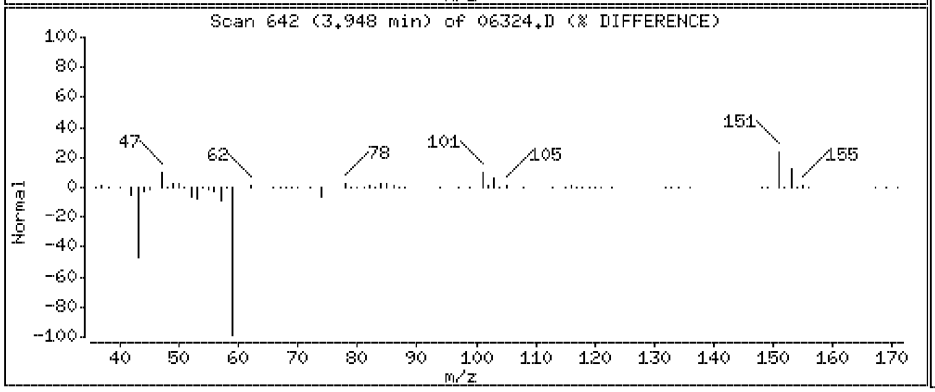
22 Freon 113

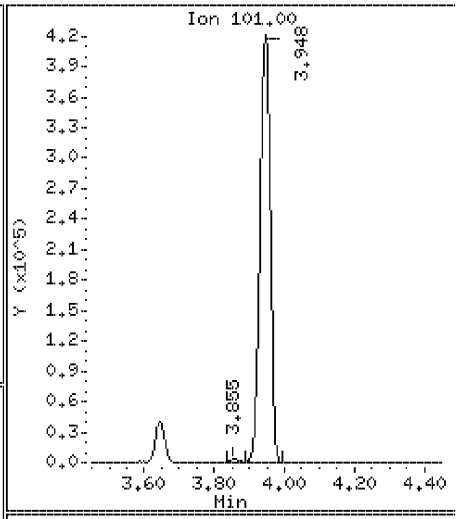
Concentration: 55.6 ppbv

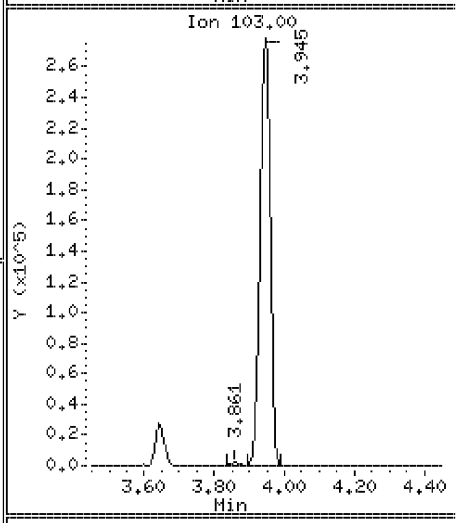


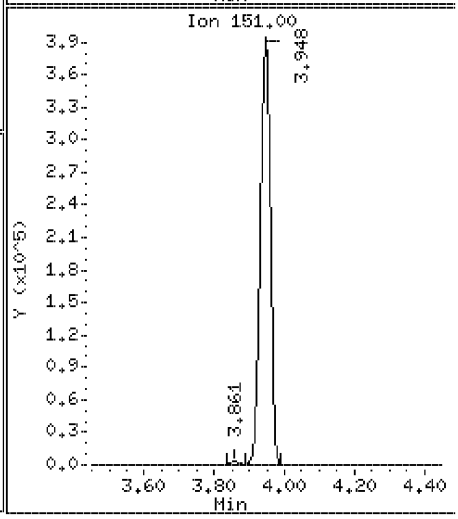












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

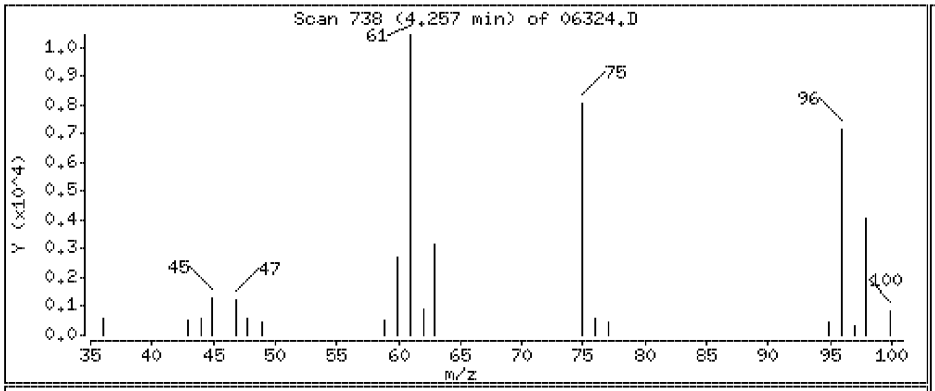
Operator: MJL

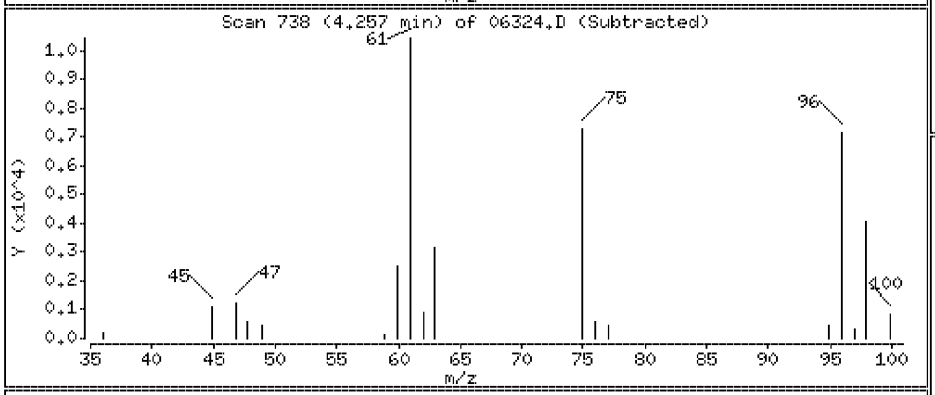
Column phase: J&W DB-5

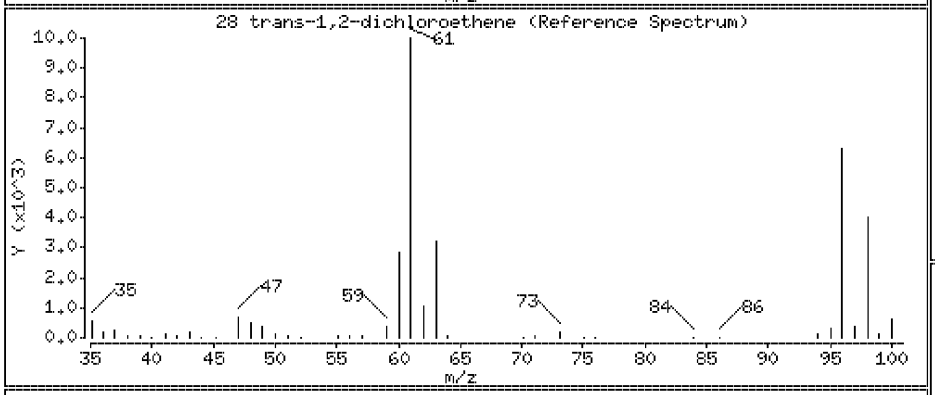
Column diameter: 0.32

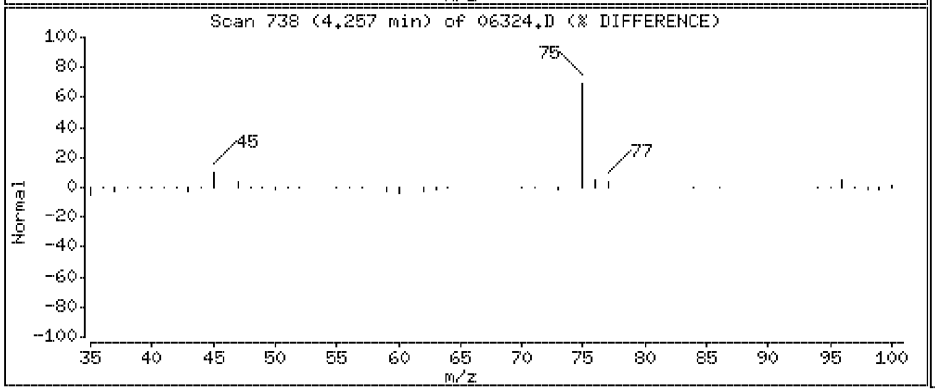
28 trans-1,2-dichloroethene

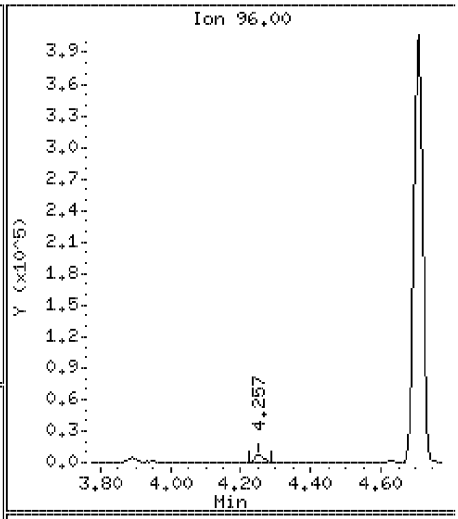
Concentration: 1.87 ppbv

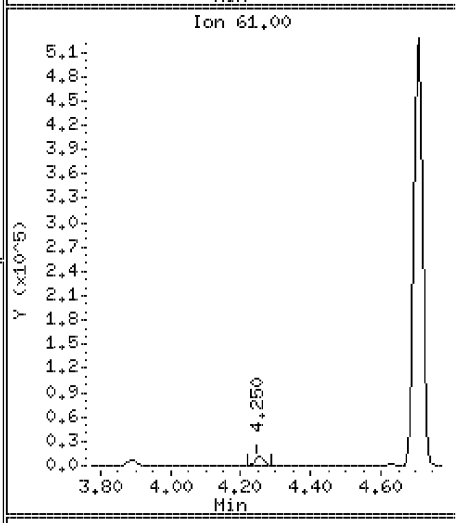


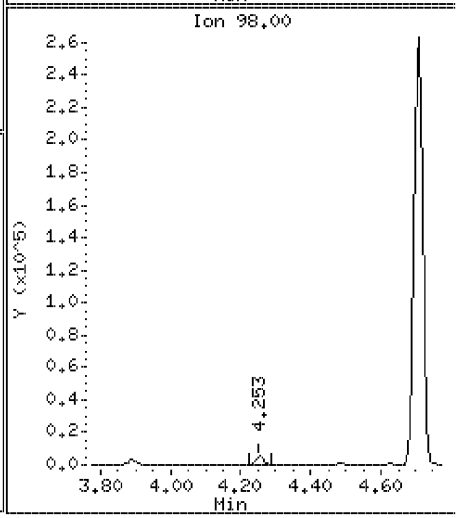












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

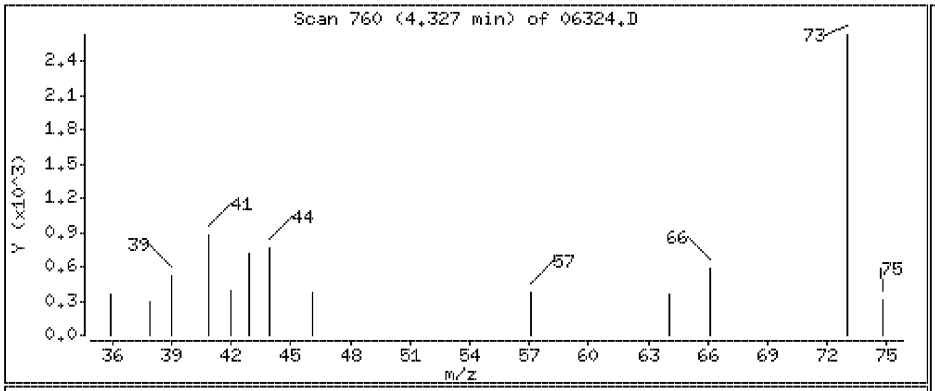
Operator: MJL

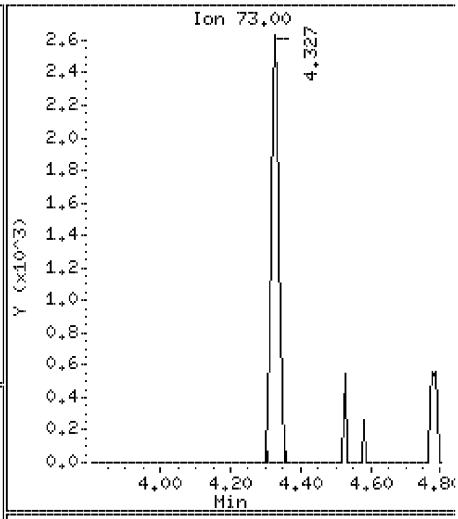
Column phase: J&W DB-5

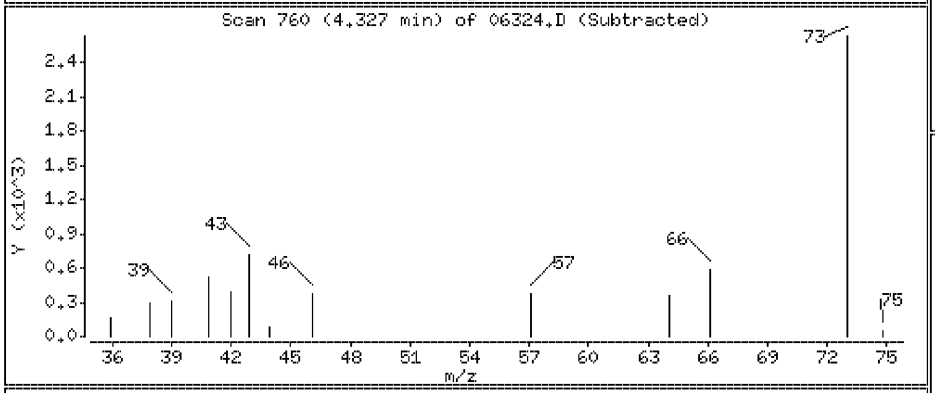
Column diameter: 0.32

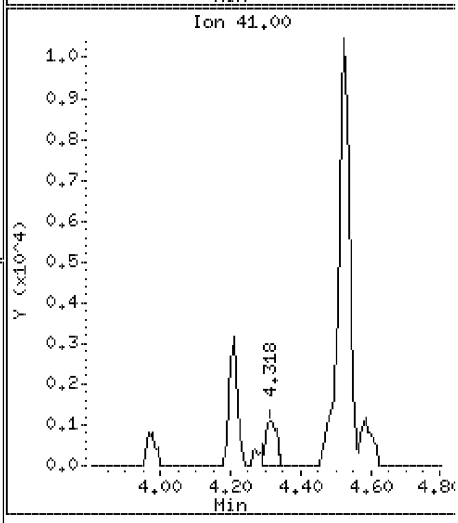
29 Methyl Tert Butyl Ether

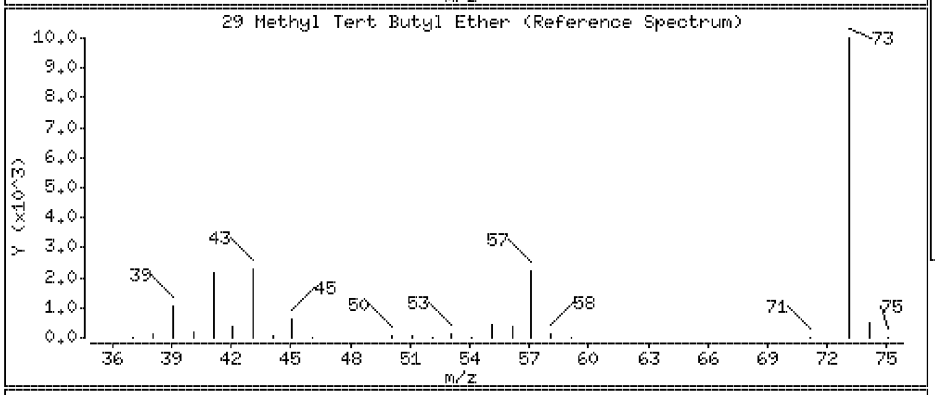
Concentration: 0.195 ppbv

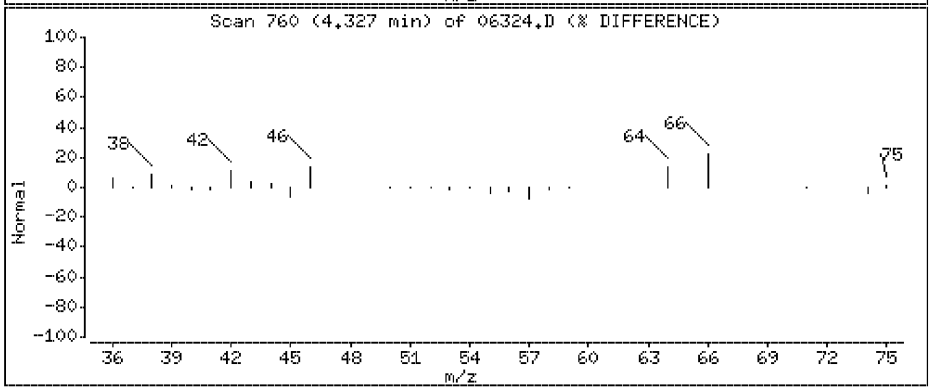












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

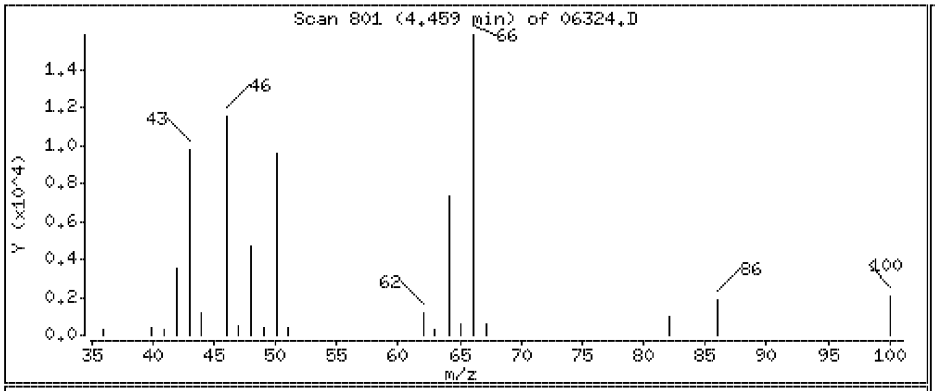
Operator: MJL

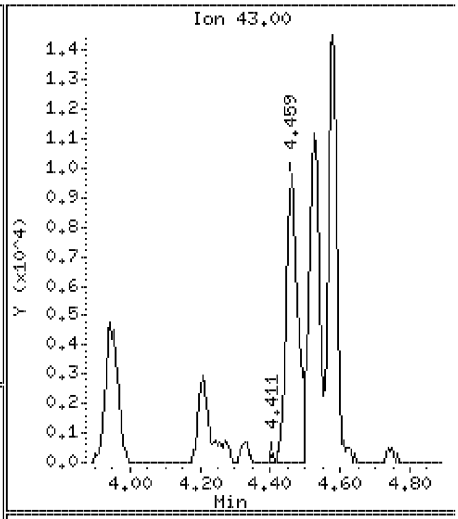
Column phase: J&W DB-5

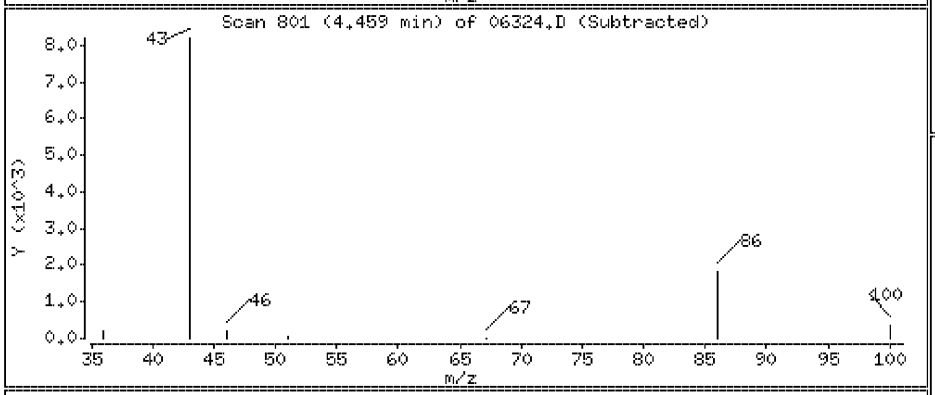
Column diameter: 0.32

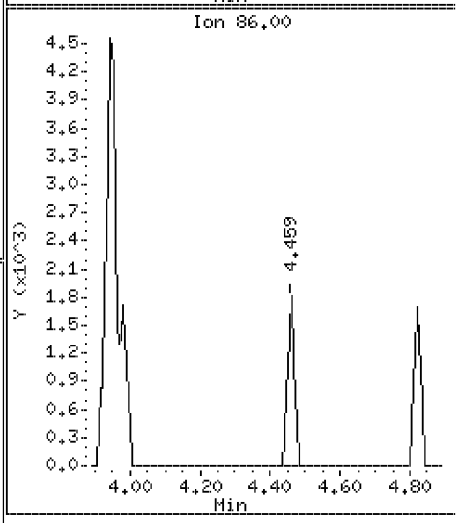
30 Vinyl Acetate

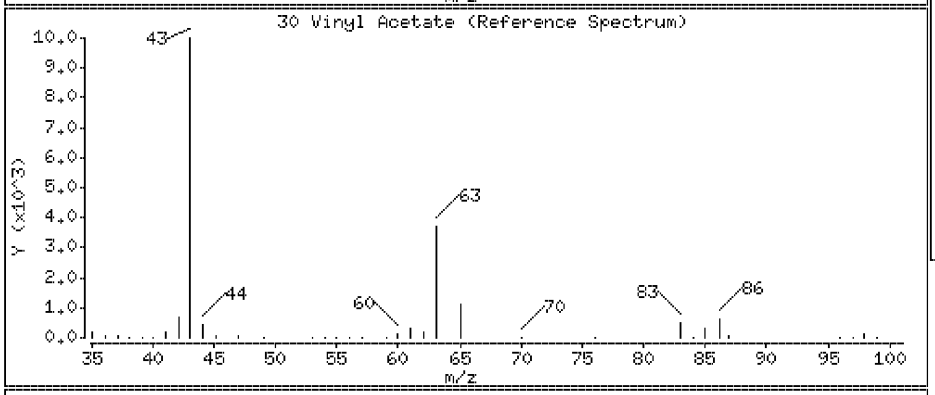
Concentration: 1.49 ppbv

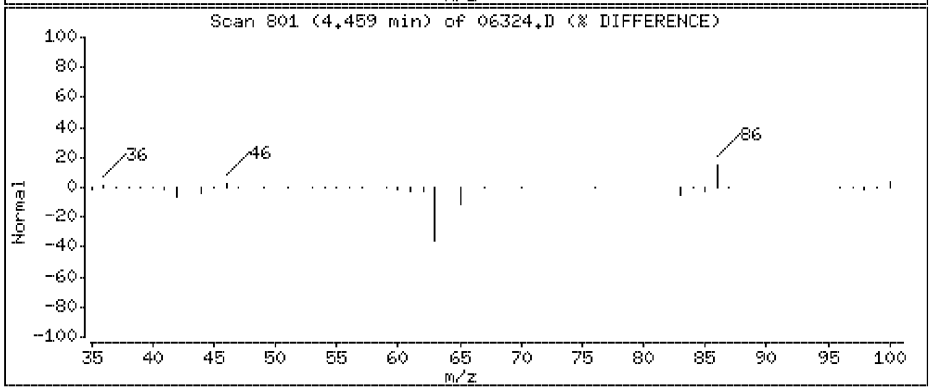












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

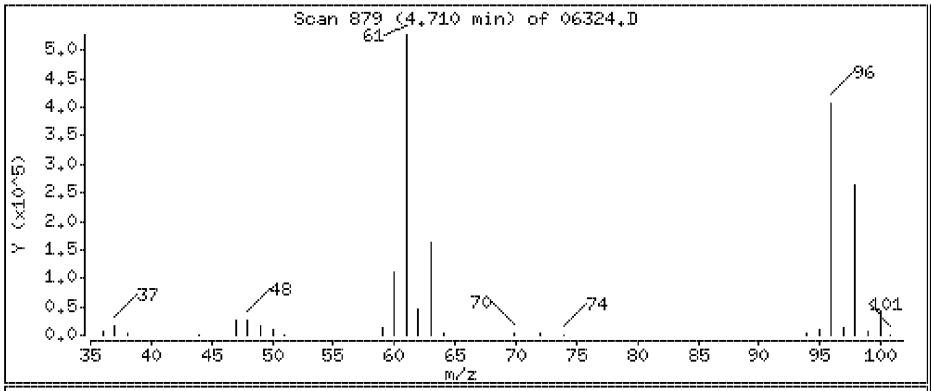
Operator: MJL

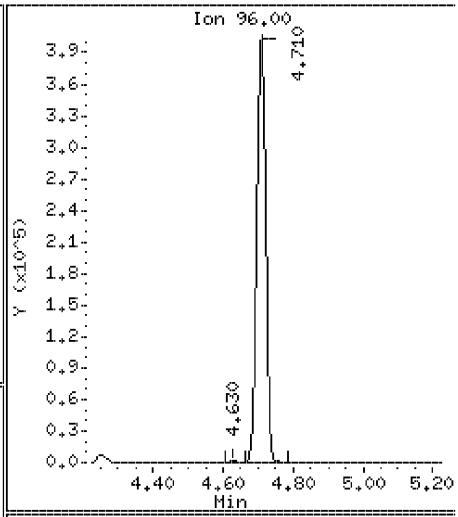
Column phase: J&W DB-5

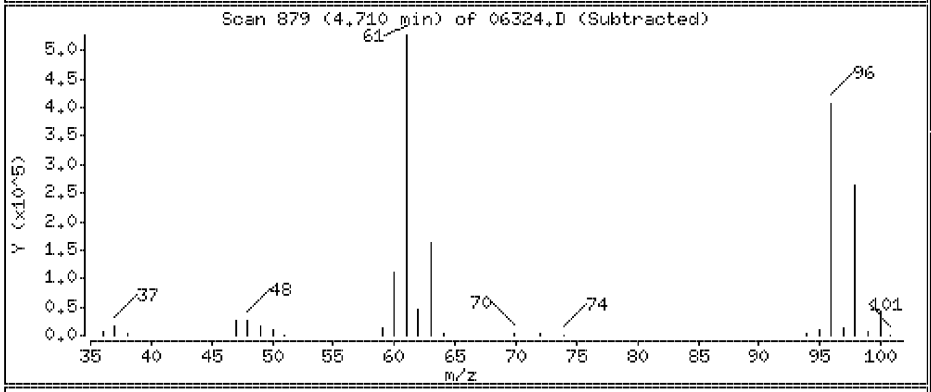
Column diameter: 0.32

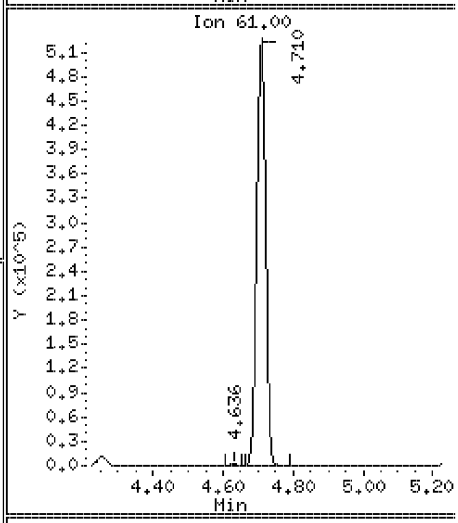
37 cis-1,2-Dichloroethene

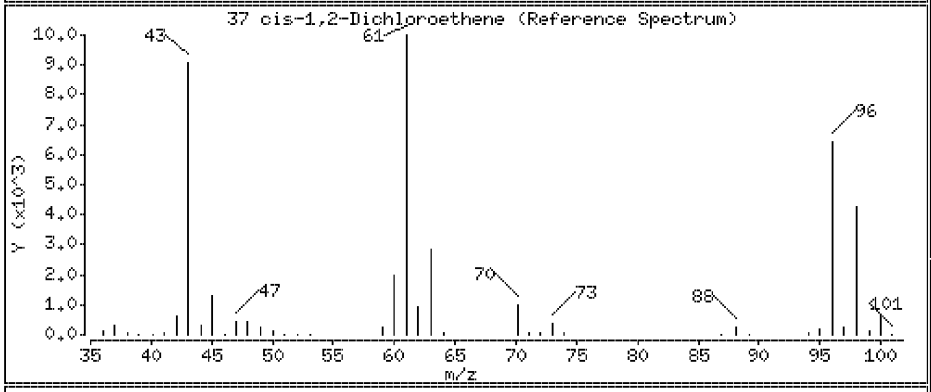
Concentration: 94.5 ppbv

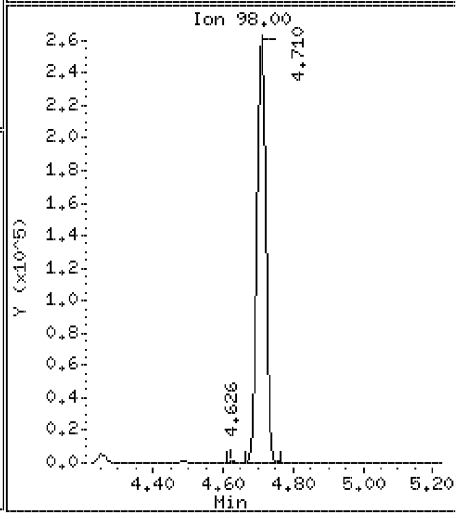


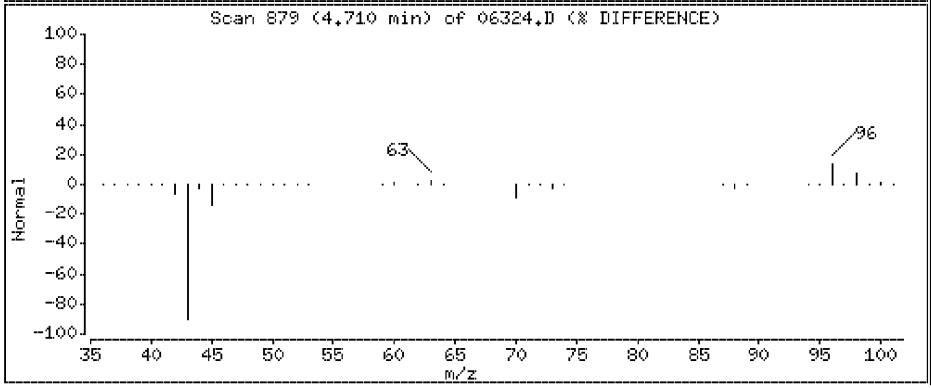












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

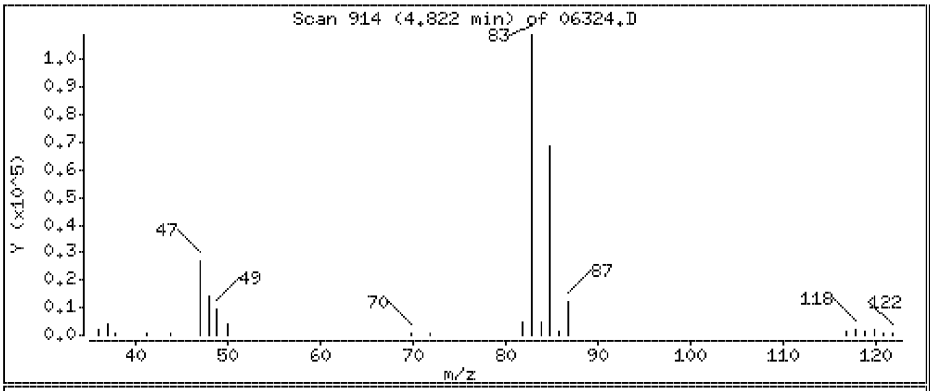
Operator: MJL

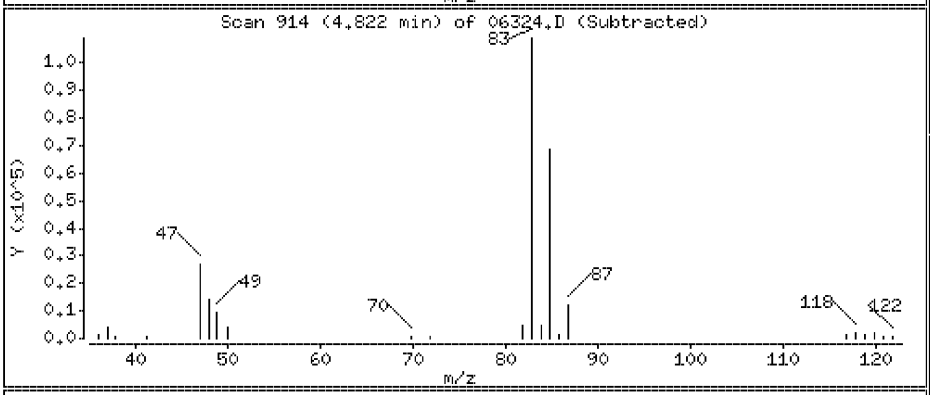
Column phase: J&W DB-5

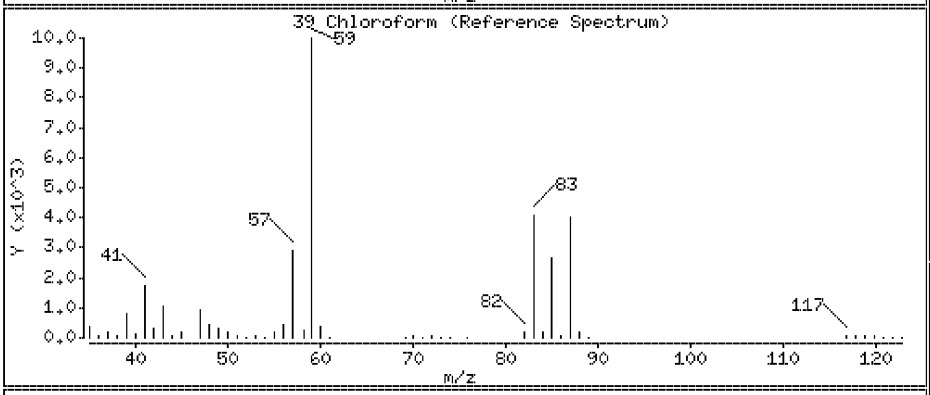
Column diameter: 0.32

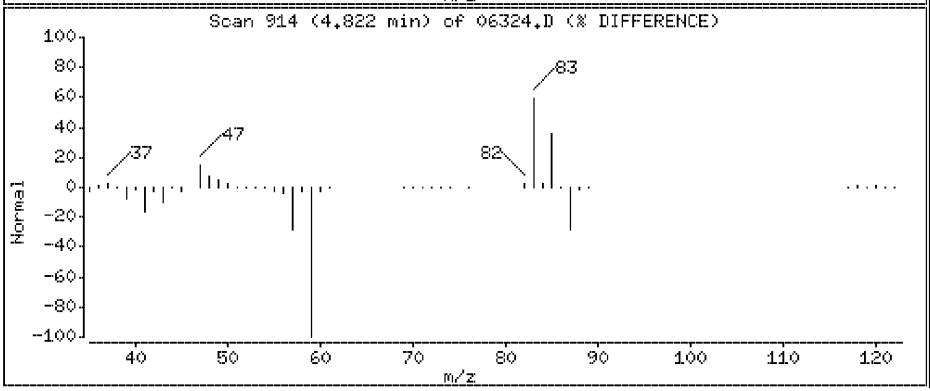
39 Chloroform

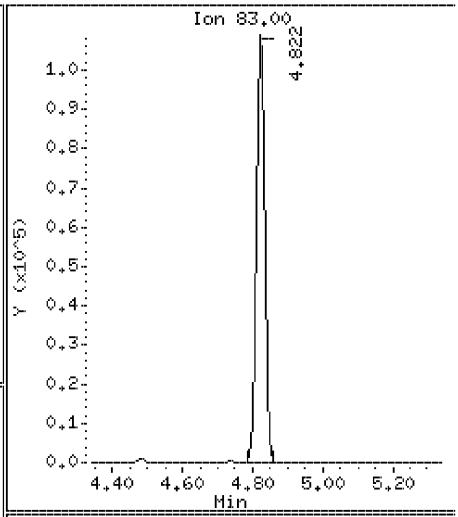
Concentration: 11.3 ppbv

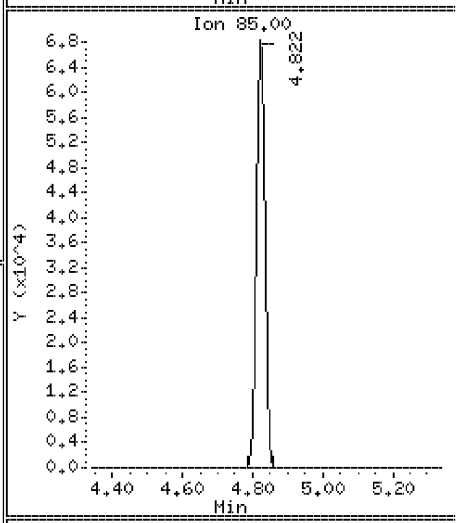


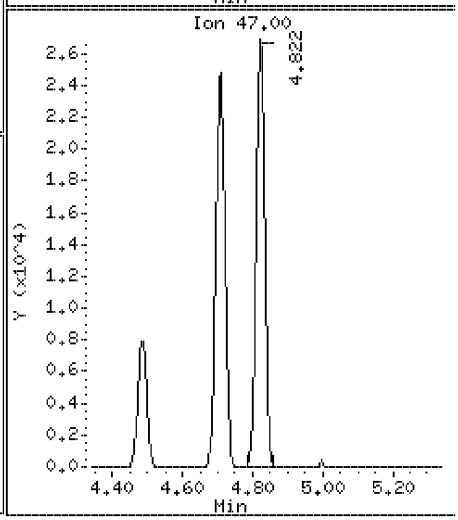












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

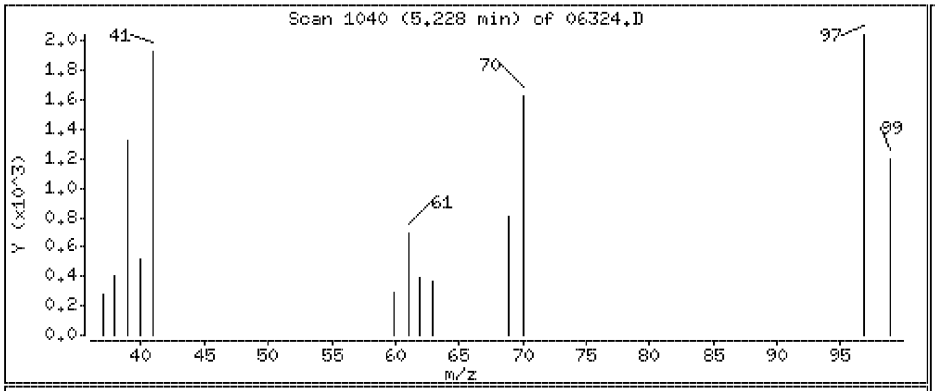
Operator: MJL

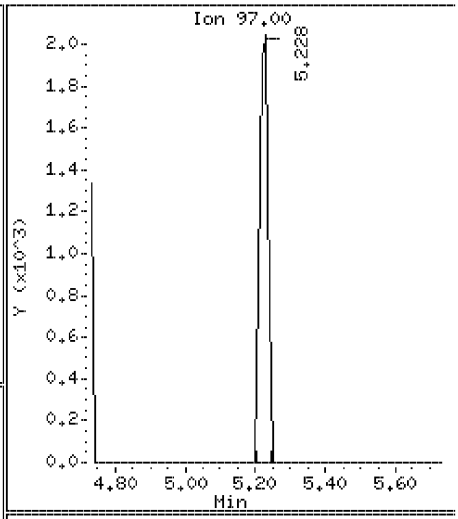
Column phase: J&W DB-5

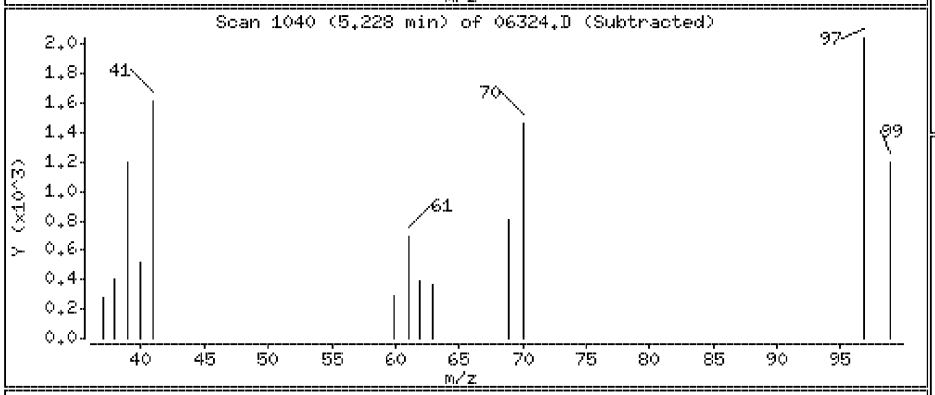
Column diameter: 0.32

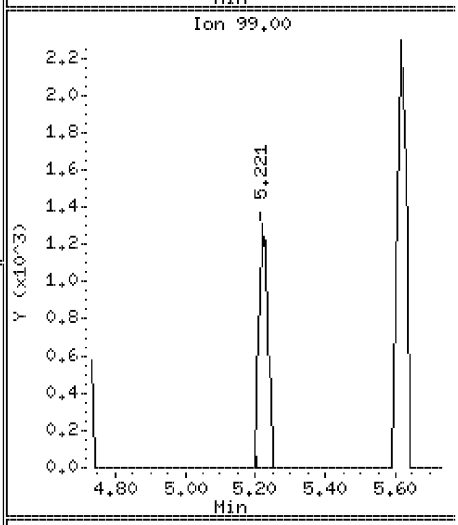
41 1,1,1-Trichloroethane

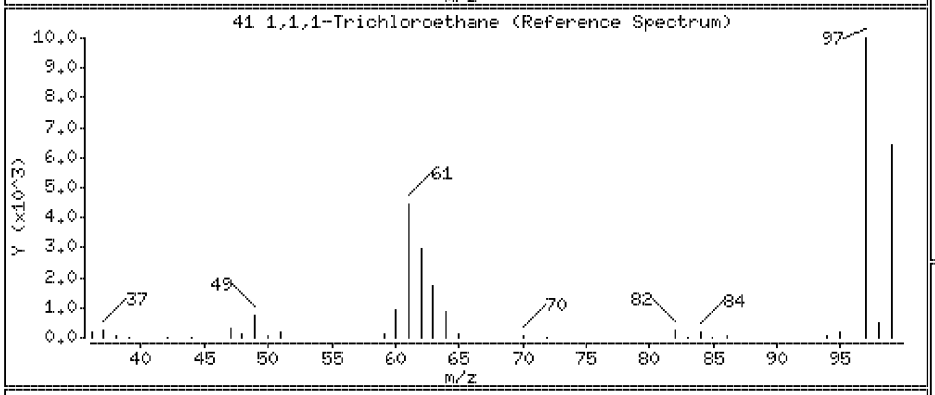
Concentration: 0.186 ppbv

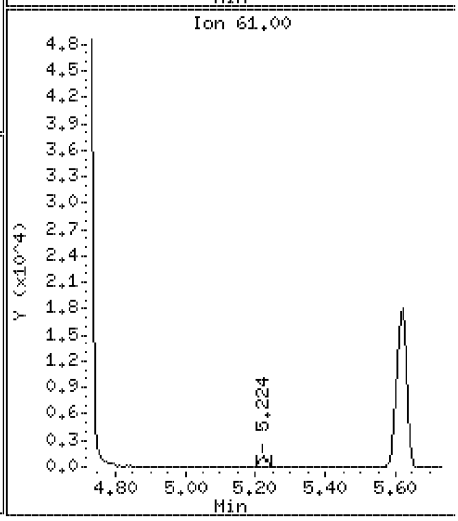


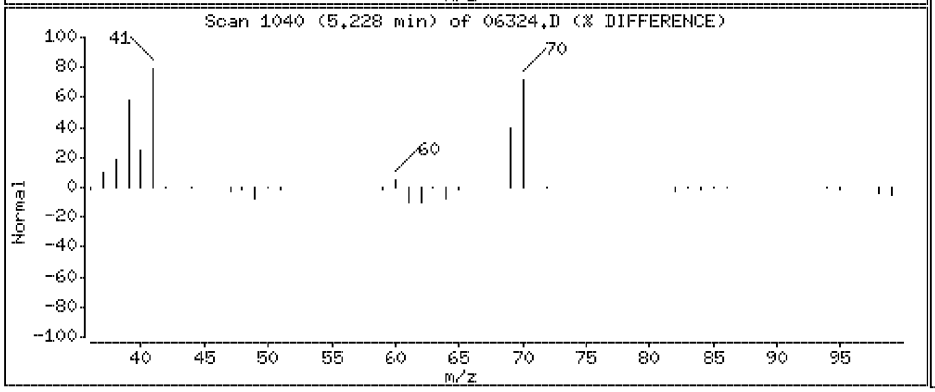












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

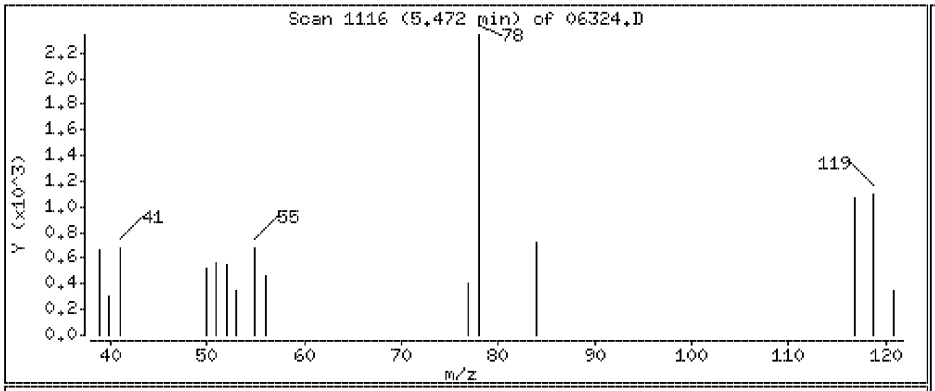
Operator: MJL

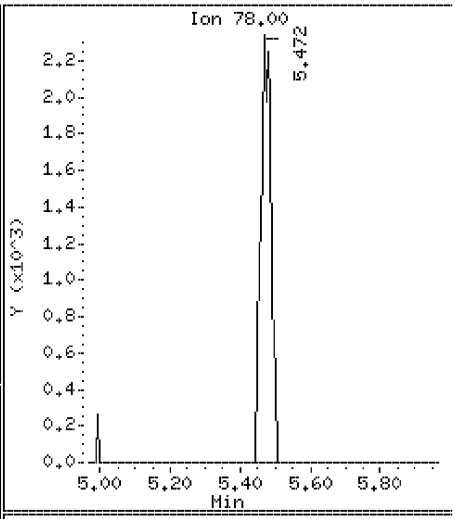
Column phase: J&W DB-5

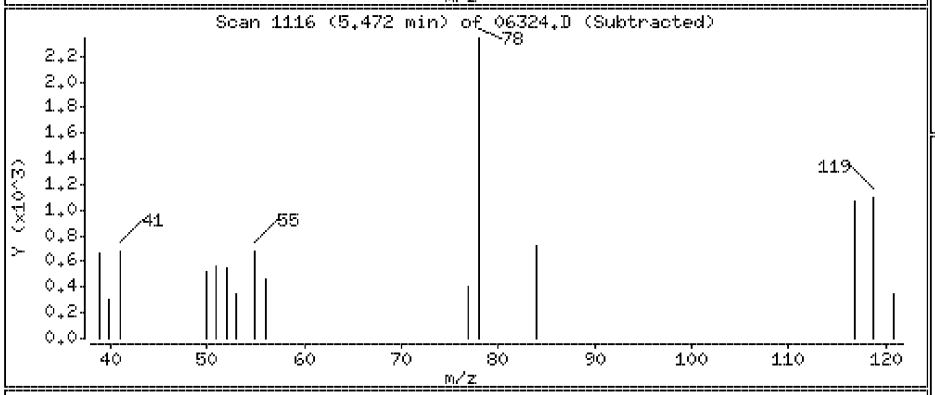
Column diameter: 0.32

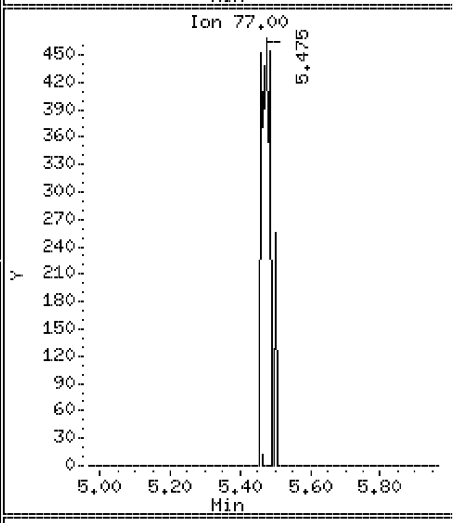
43 Benzene

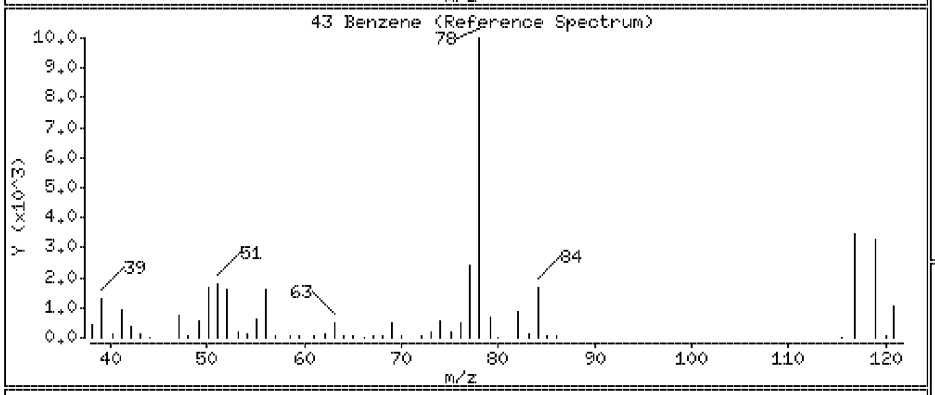
Concentration: 0.199 ppbv

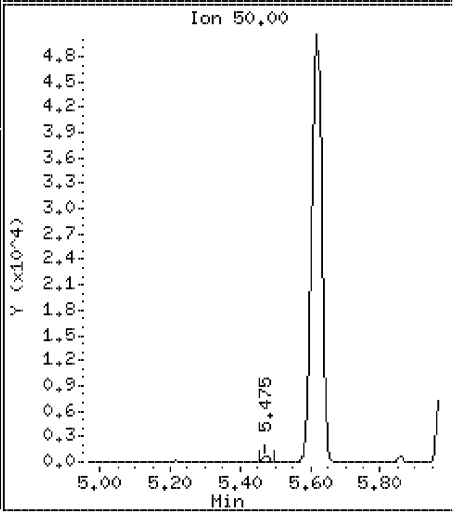


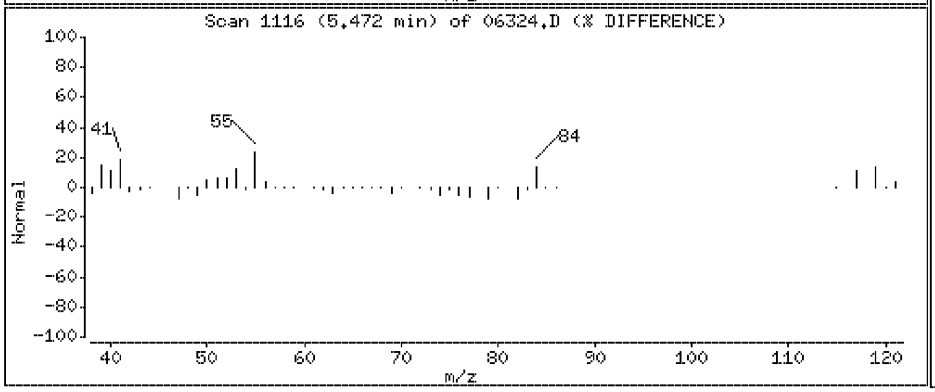












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

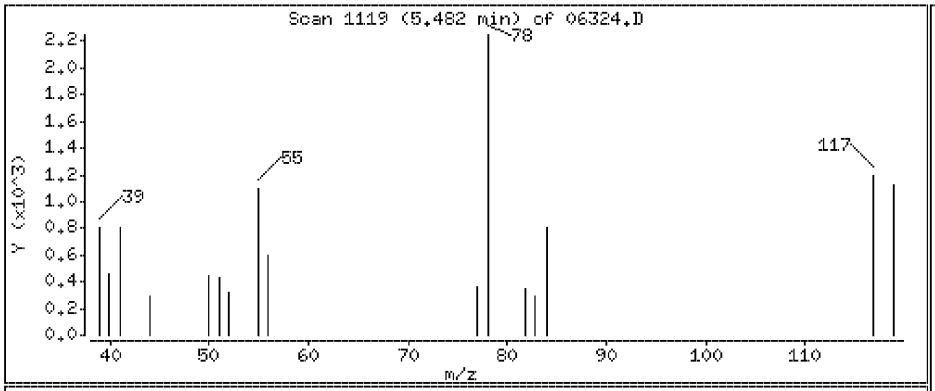
Operator: MJL

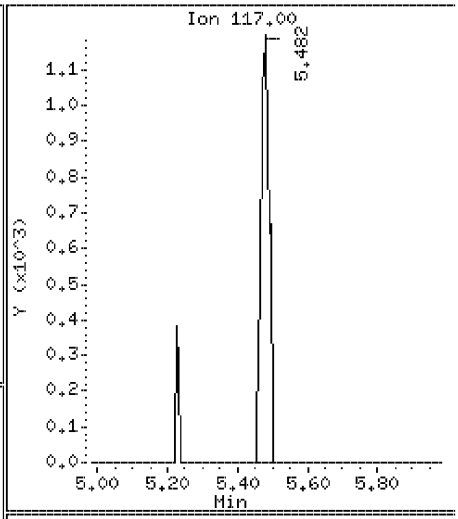
Column phase: J&W DB-5

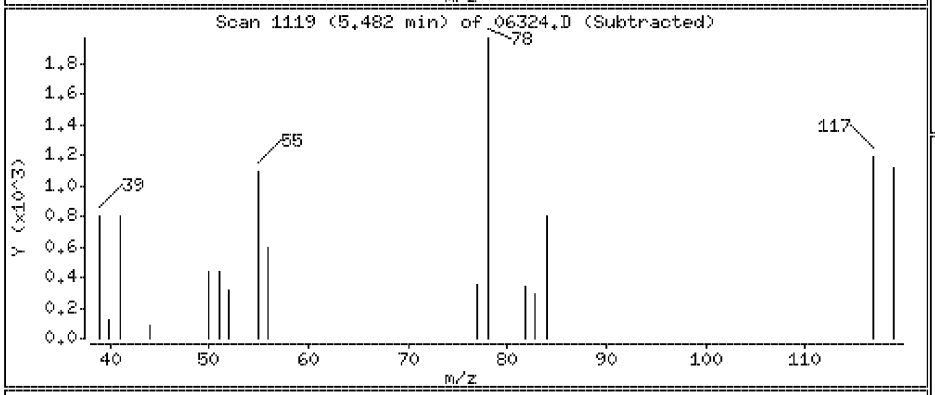
Column diameter: 0.32

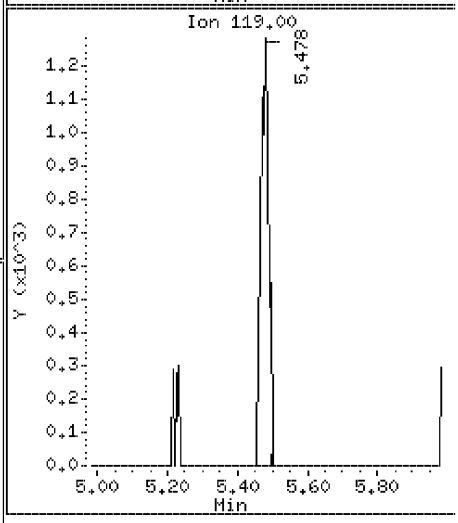
44 Carbon tetrachloride

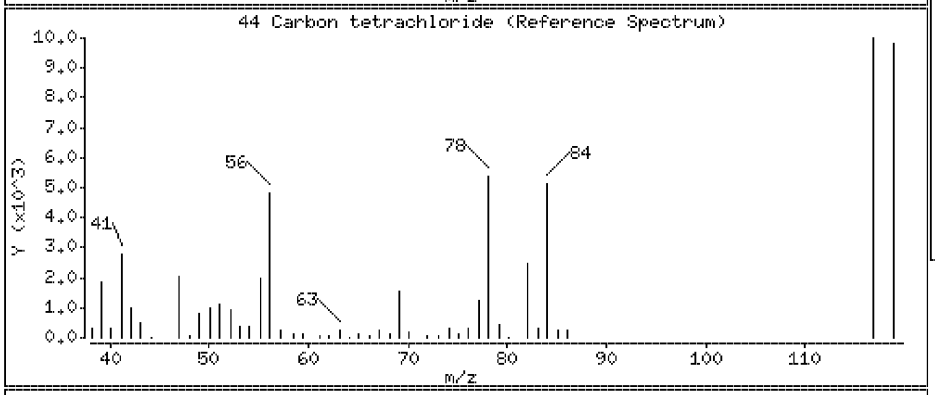
Concentration: 0.105 ppbv

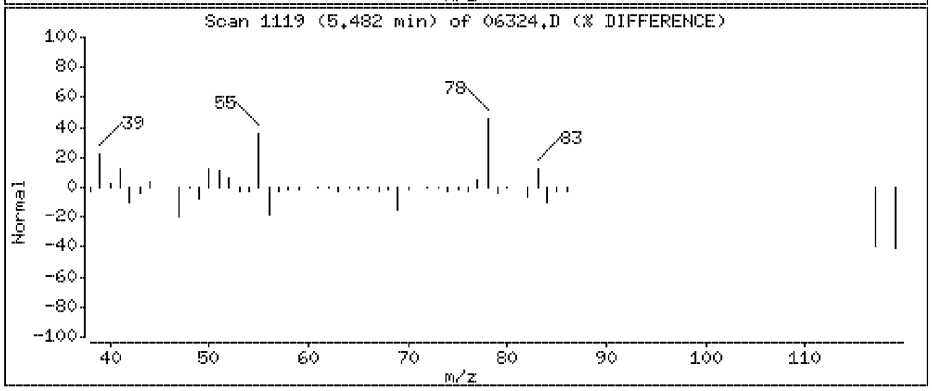












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

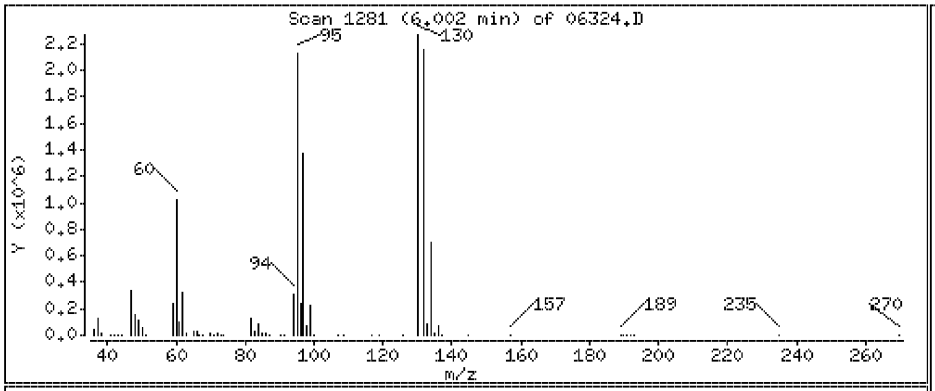
Operator: MJL

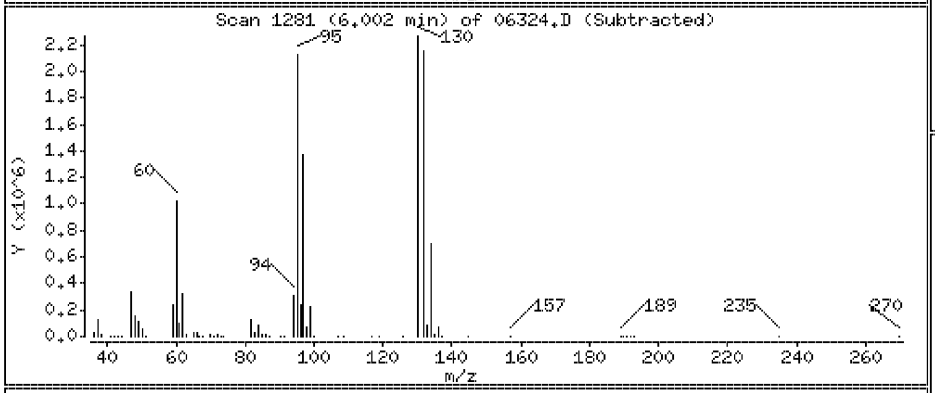
Column phase: J&W DB-5

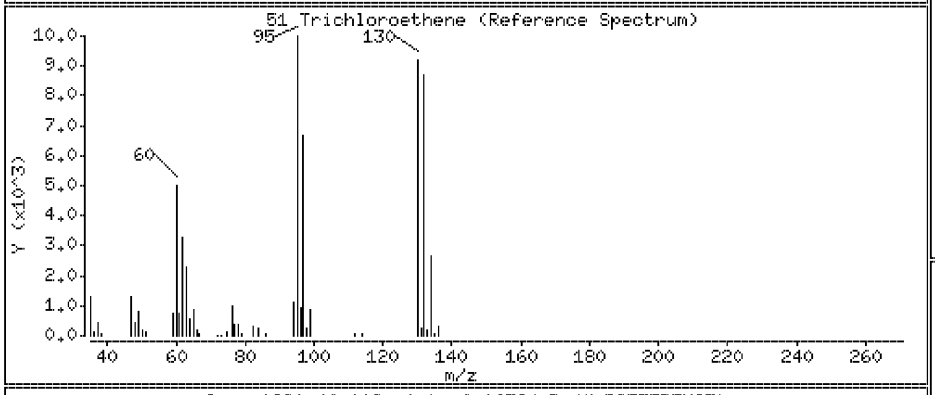
Column diameter: 0.32

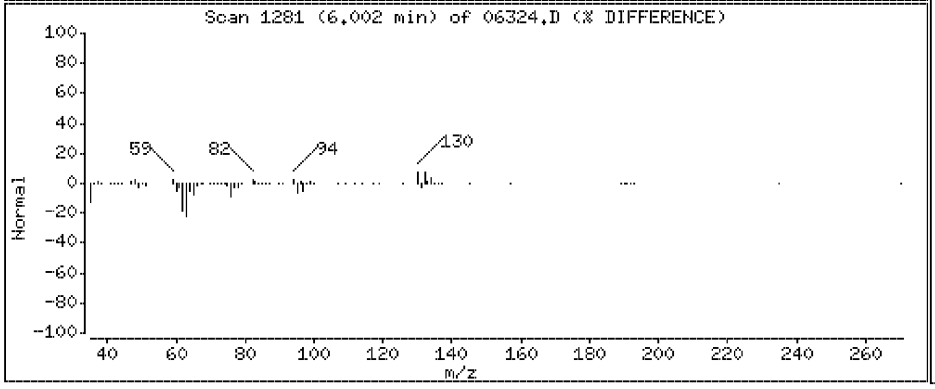
51 Trichloroethene

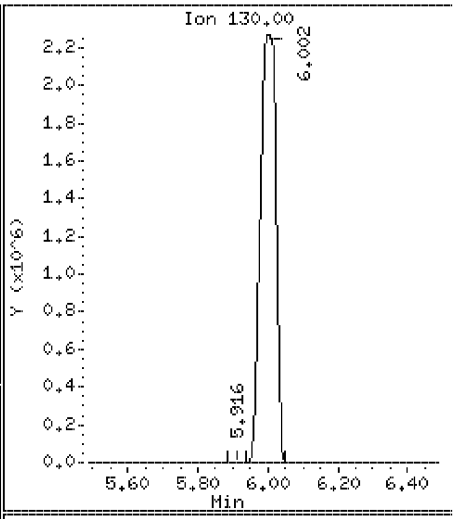
Concentration: 570 ppbv

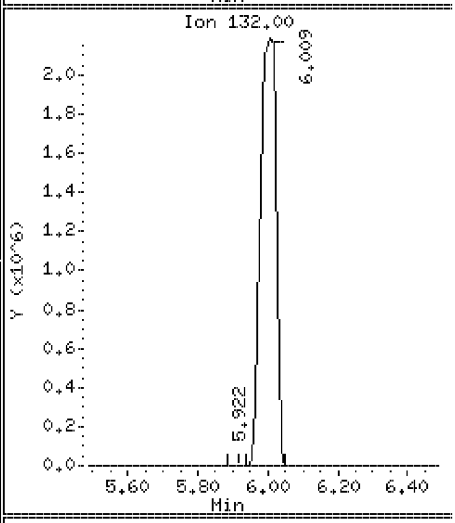


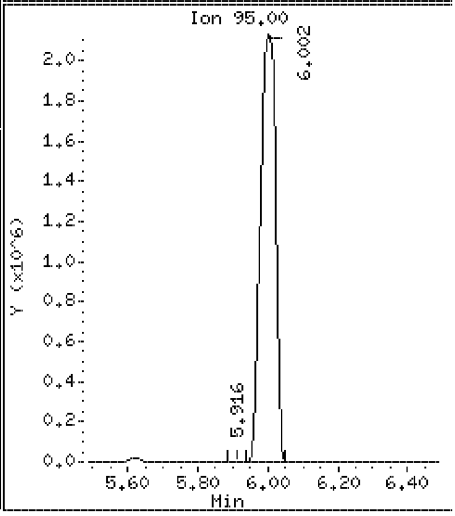












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

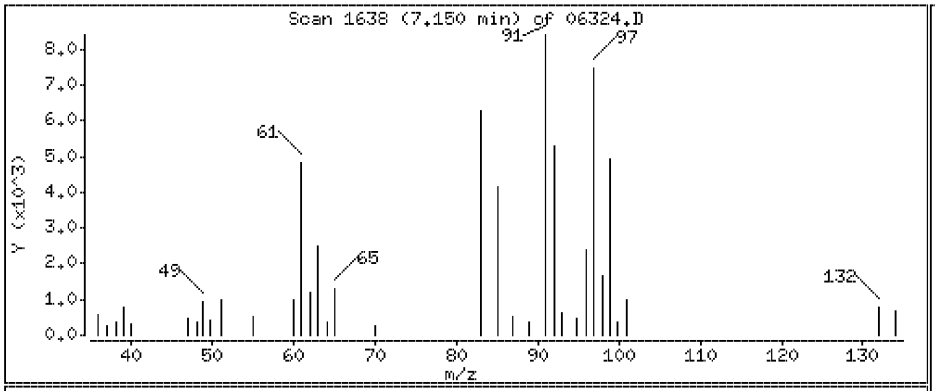
Operator: MJL

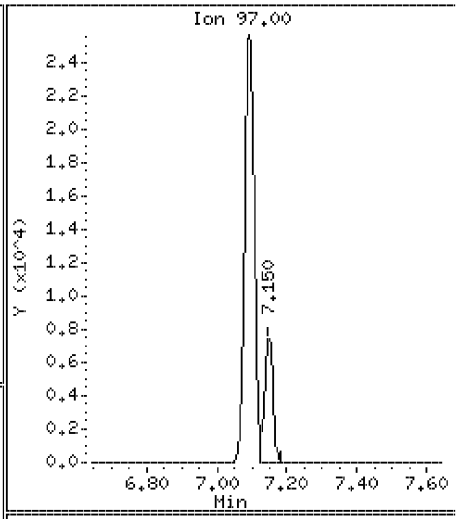
Column phase: J&W DB-5

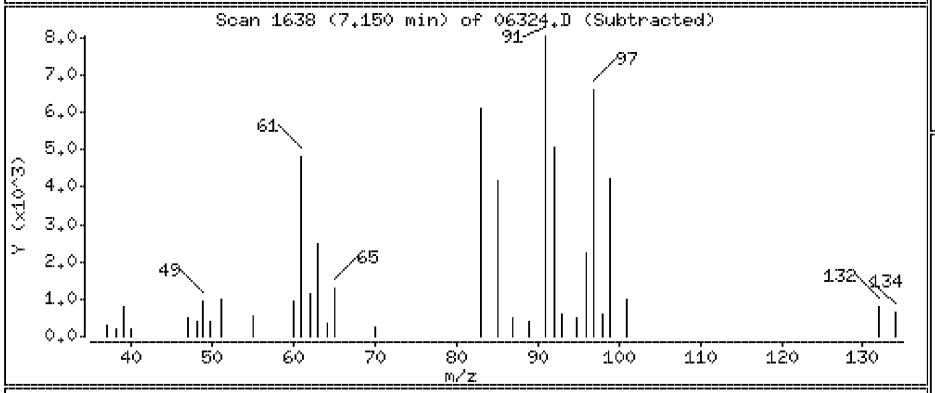
Column diameter: 0.32

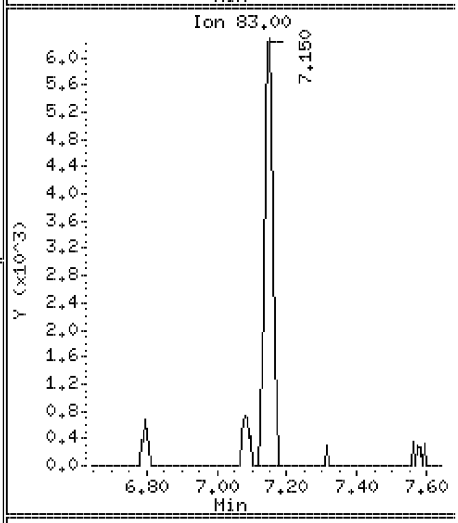
60 1,1,2-Trichloroethane

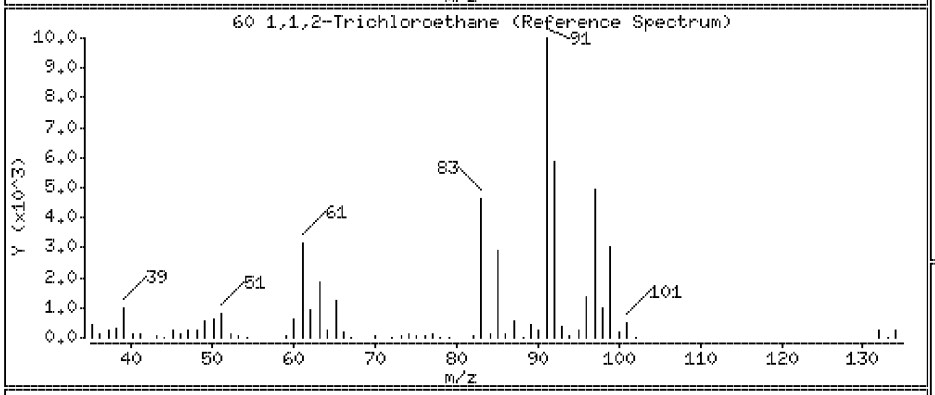
Concentration: 1.27 ppbv

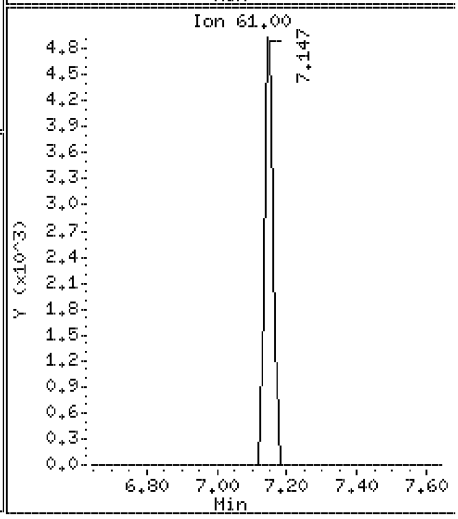


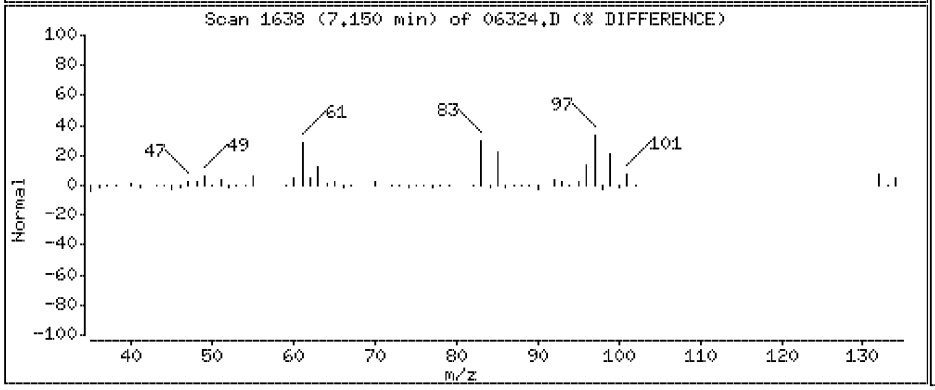












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

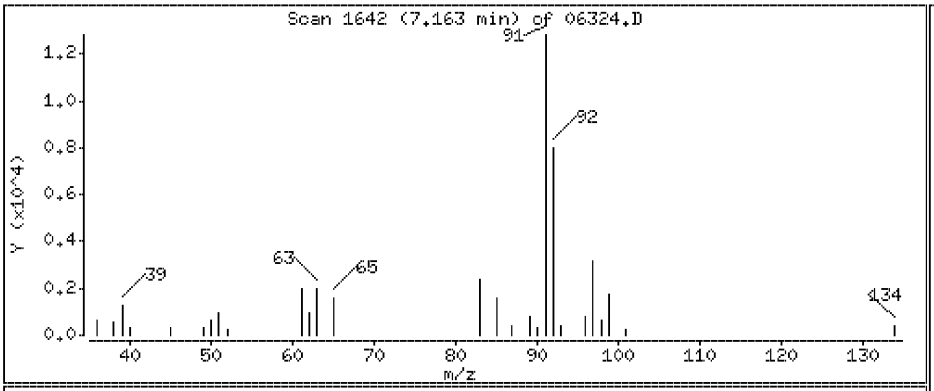
Operator: MJL

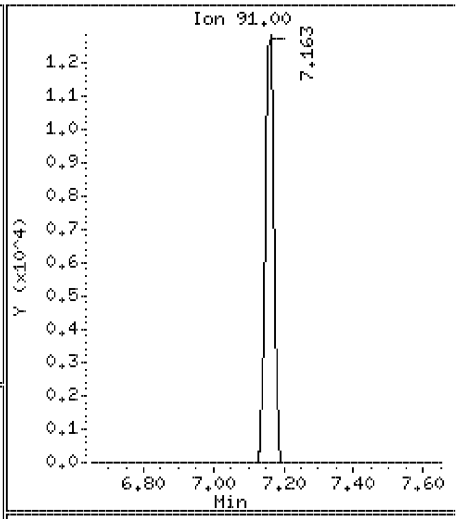
Column phase: J&W DB-5

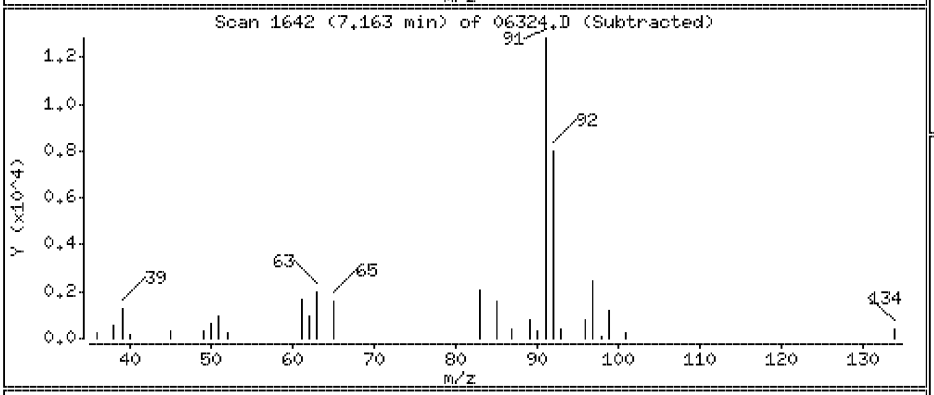
Column diameter: 0.32

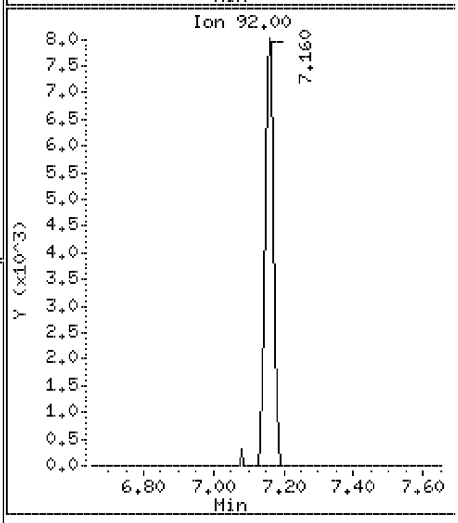
61 Toluene

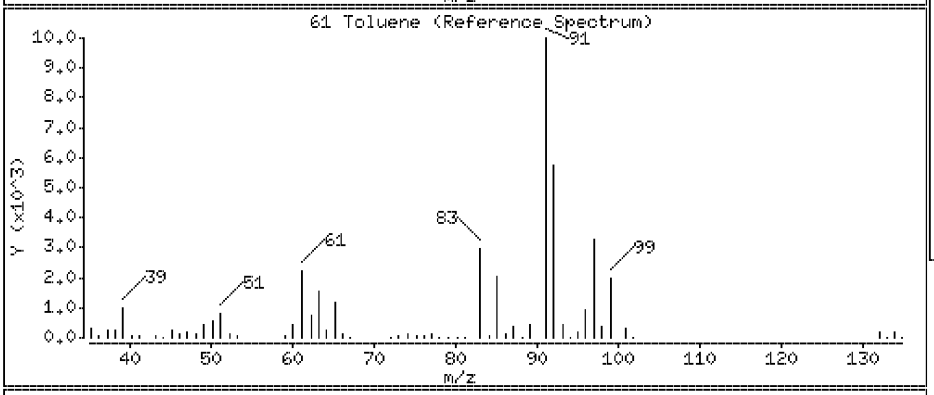
Concentration: 0.714 ppbv

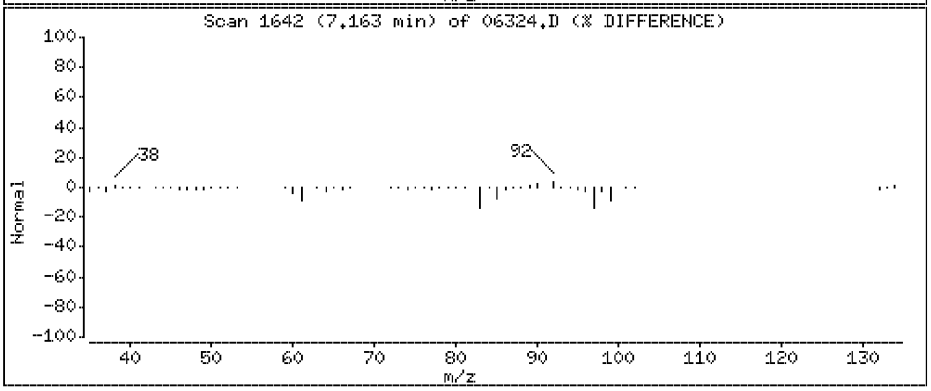












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

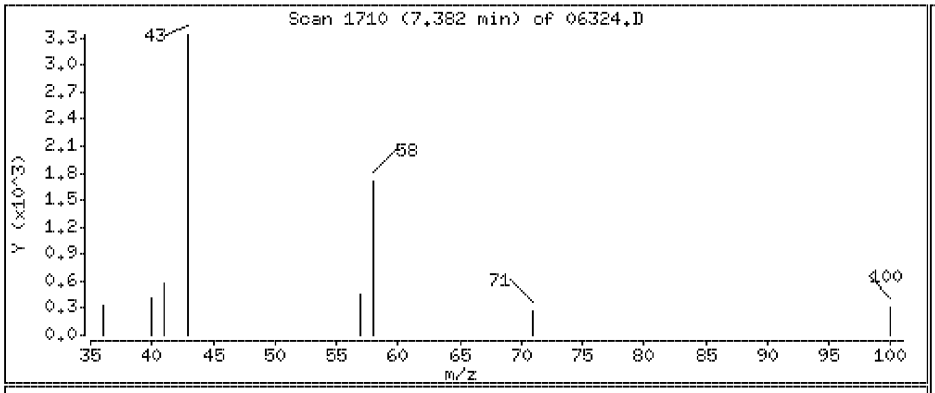
Operator: MJL

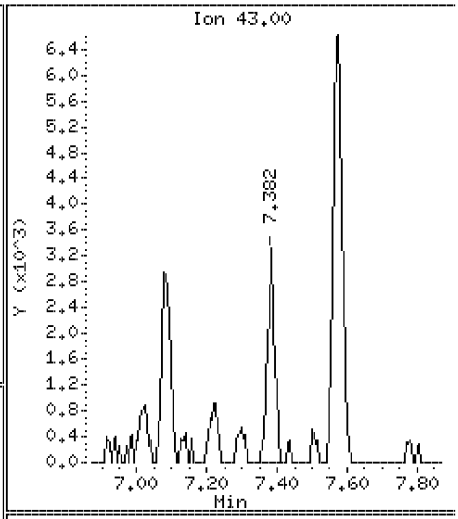
Column phase: J&W DB-5

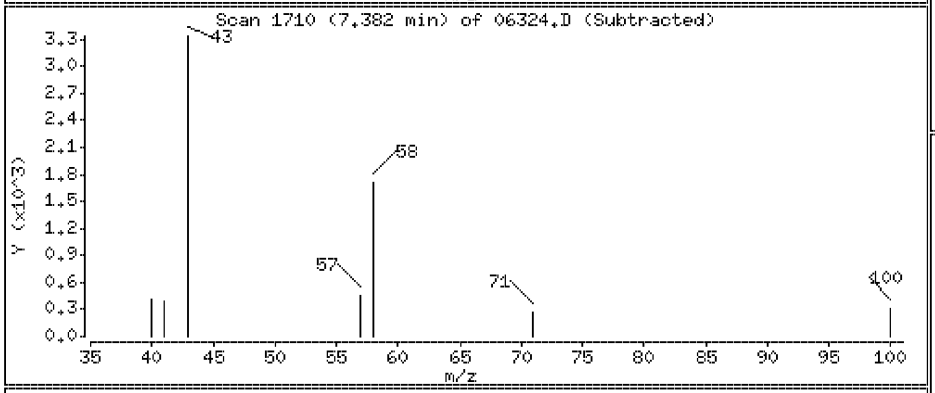
Column diameter: 0.32

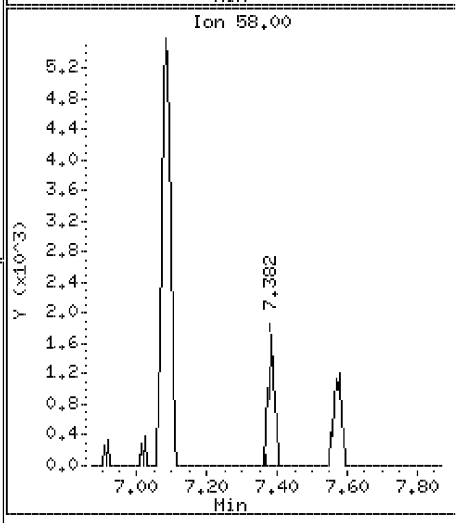
62 Methyl Butyl Ketone

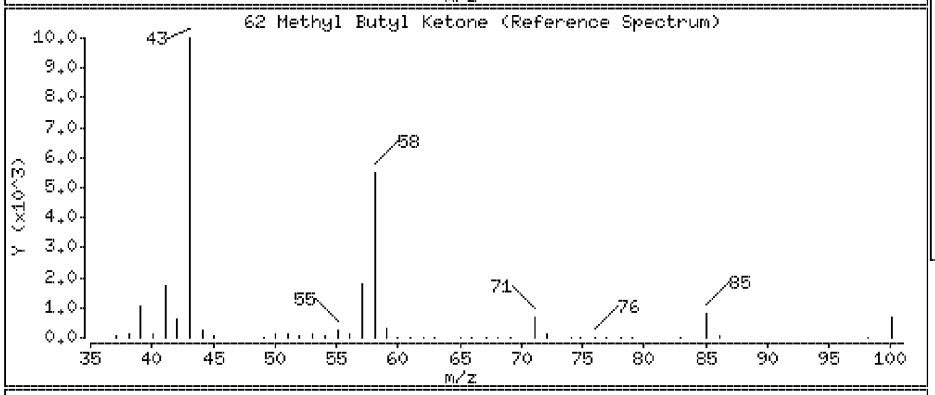
Concentration: 0.301 ppbv

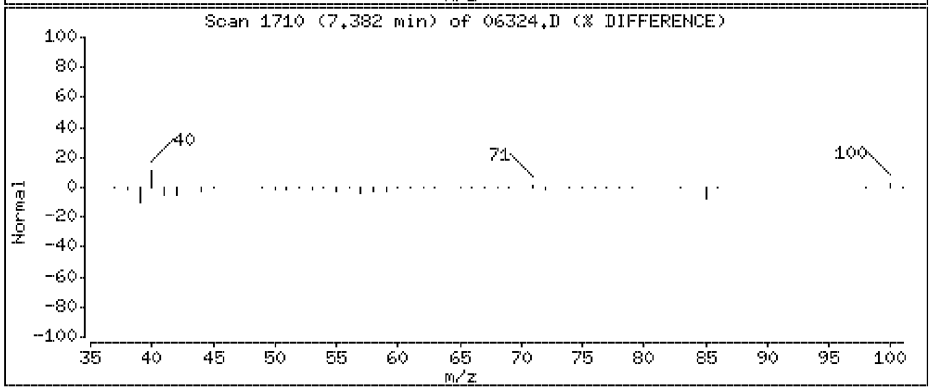












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

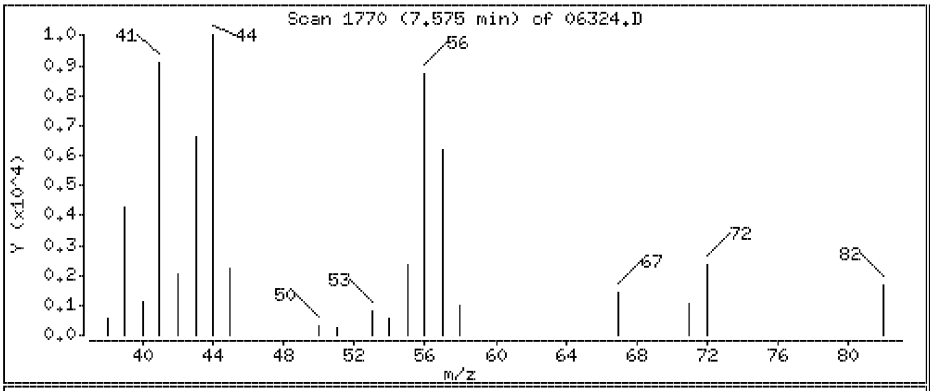
Operator: MJL

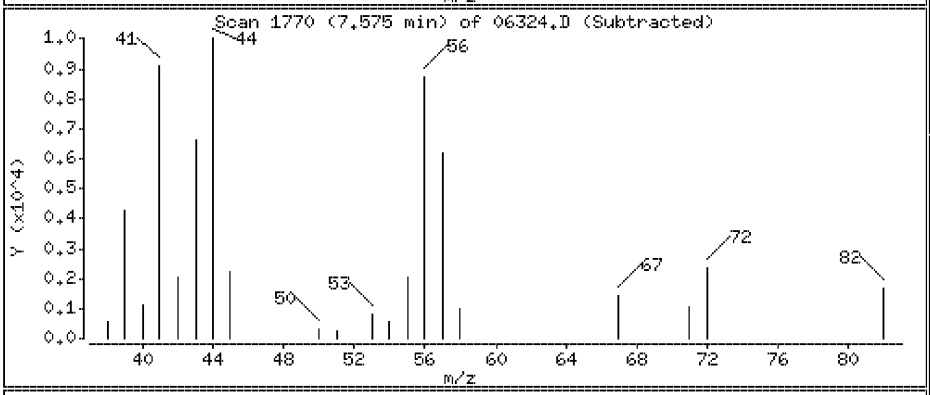
Column phase: J&W DB-5

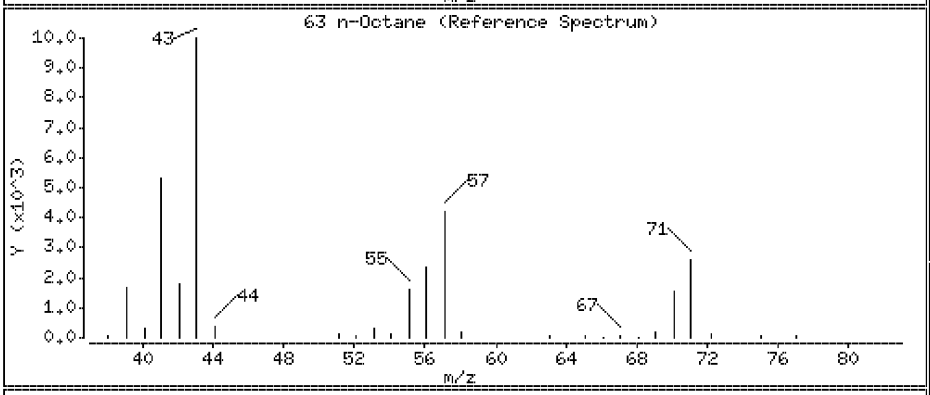
Column diameter: 0.32

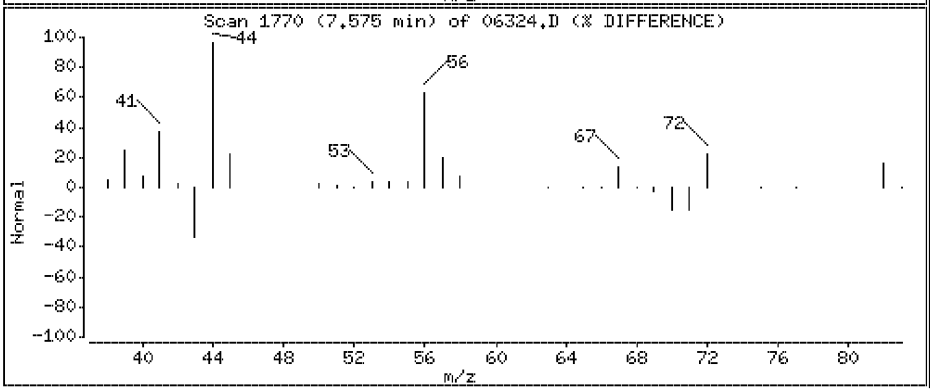
63 n-Octane

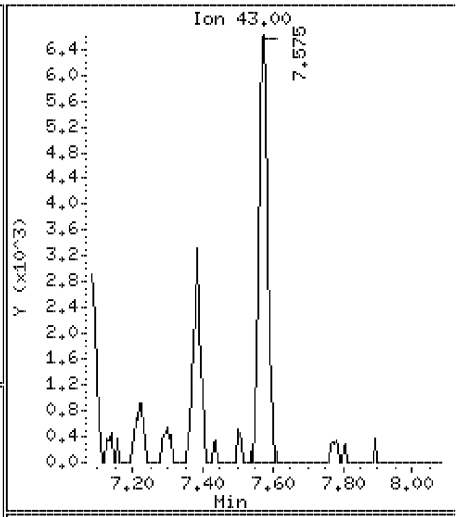
Concentration: 0.701 ppbv

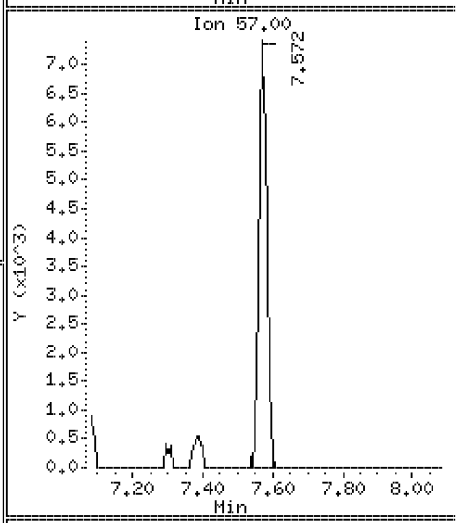


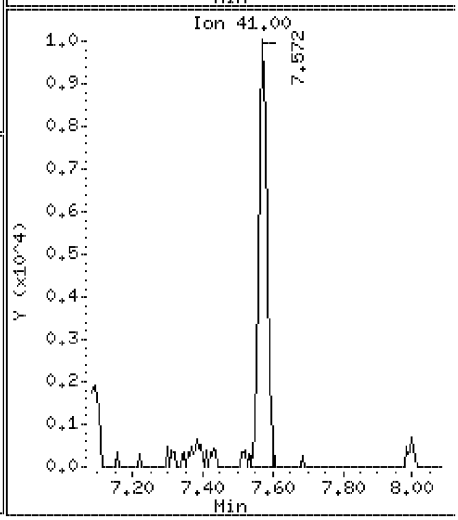












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

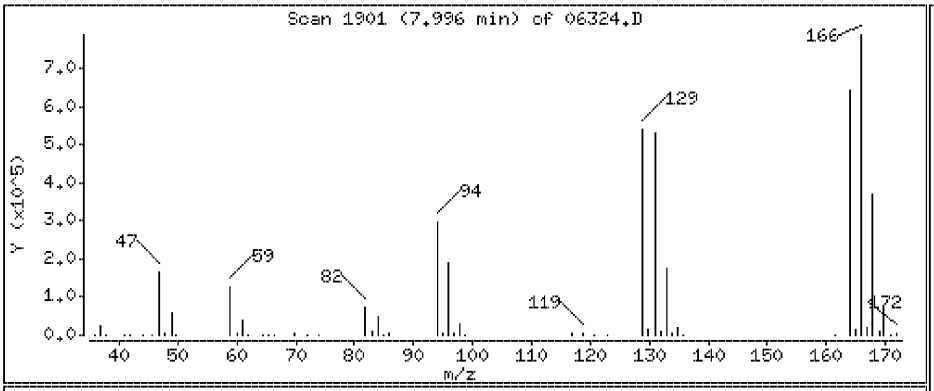
Operator: MJL

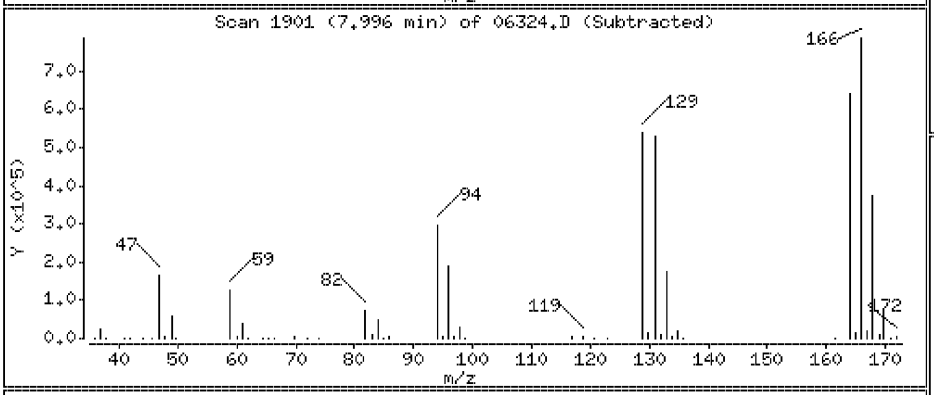
Column phase: J&W DB-5

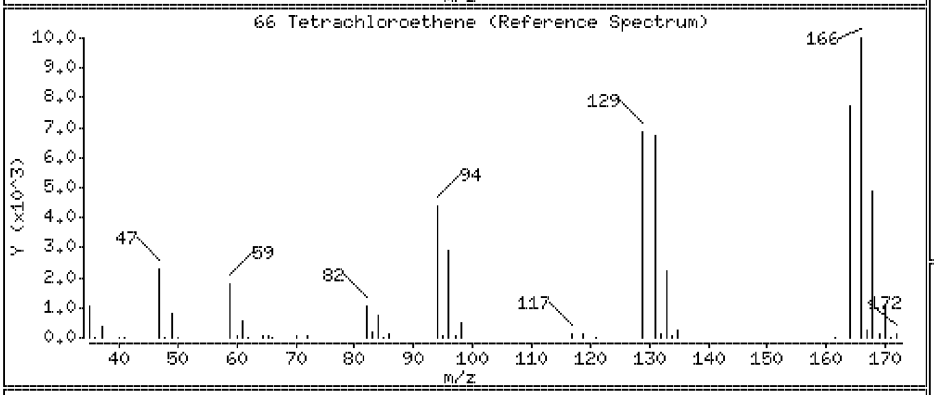
Column diameter: 0.32

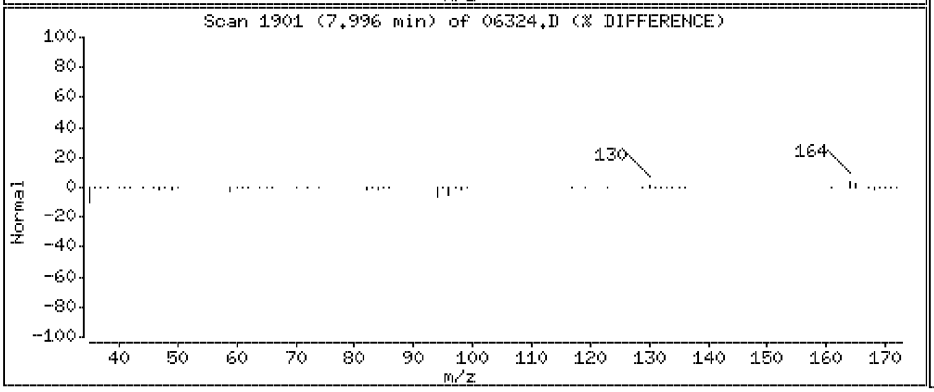
66 Tetrachloroethene

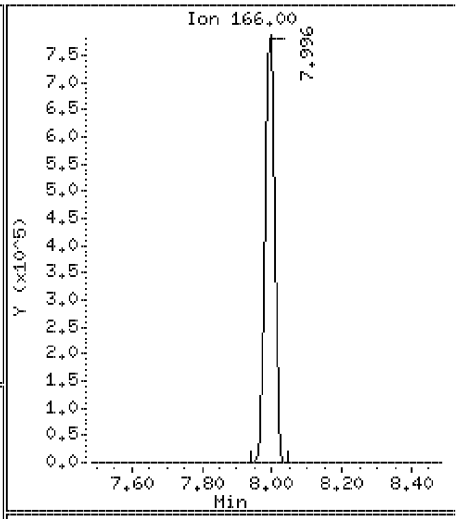
Concentration: 90.3 ppbv

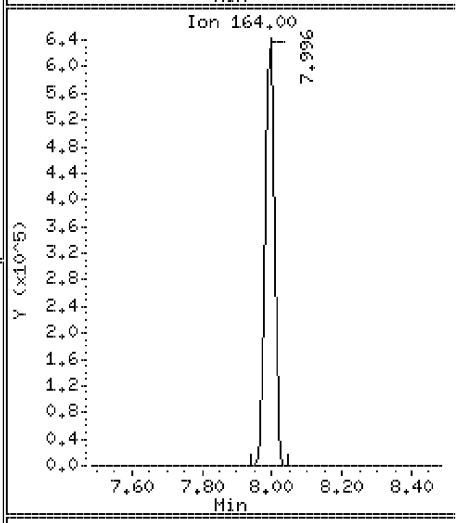


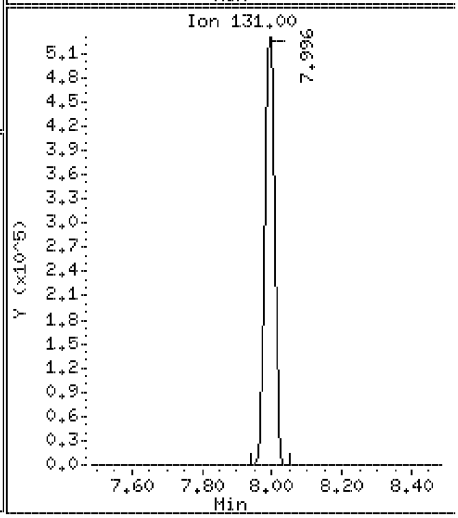












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

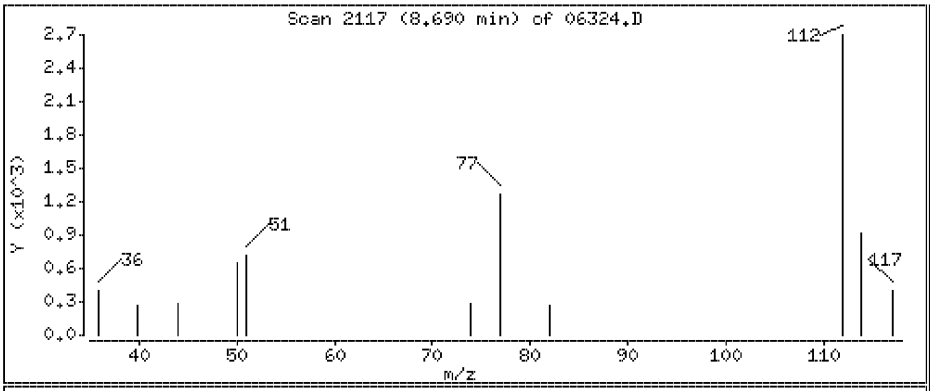
Operator: MJL

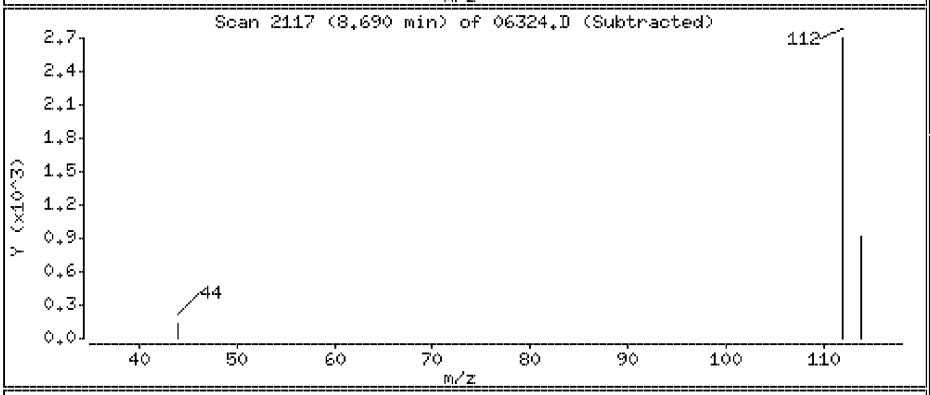
Column phase: J&W DB-5

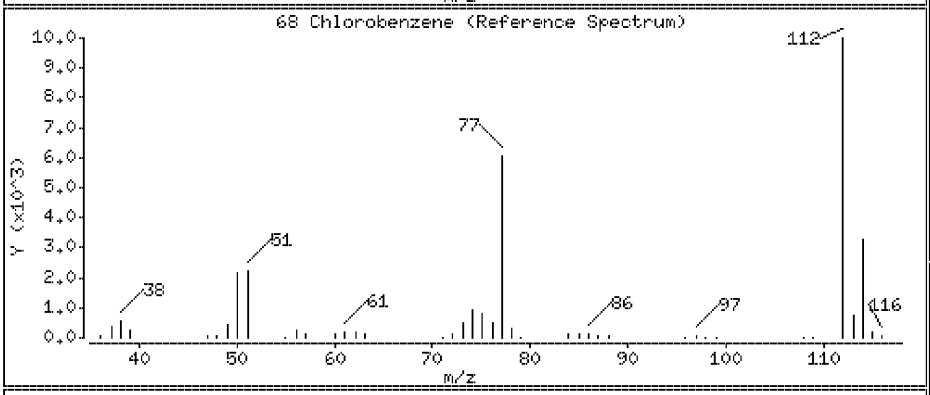
Column diameter: 0.32

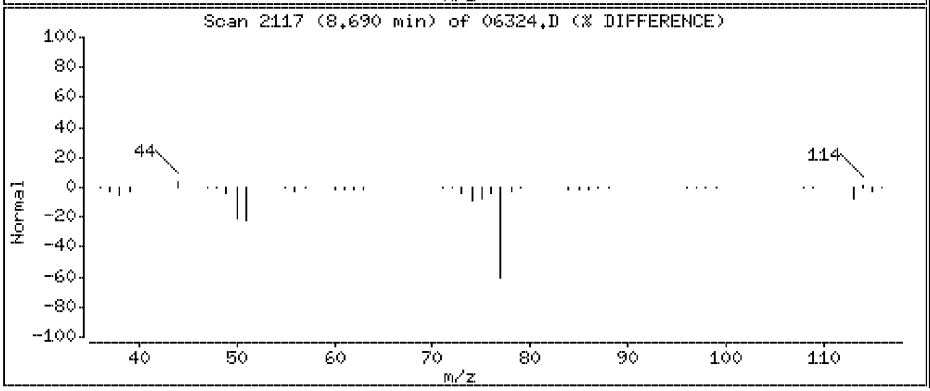
68 Chlorobenzene

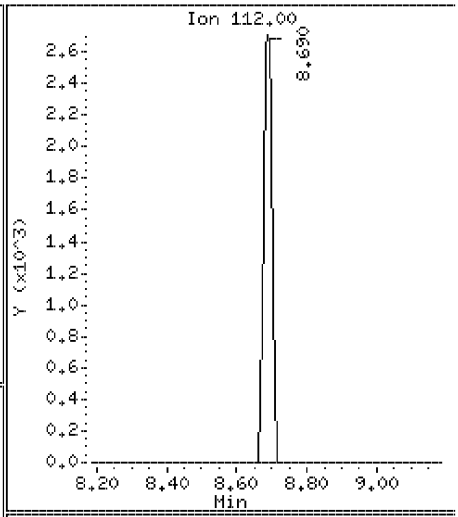
Concentration: 0.187 ppbv

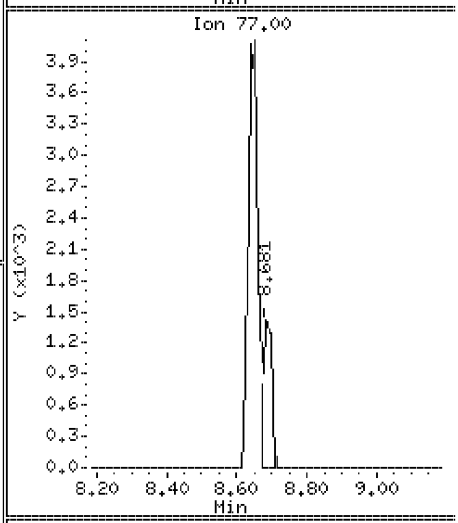


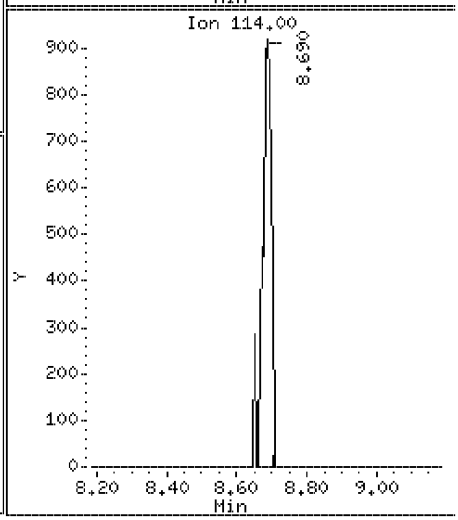












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

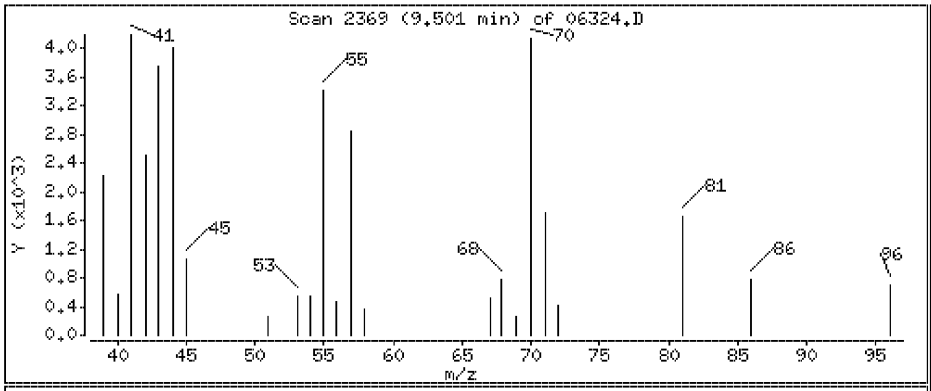
Operator: MJL

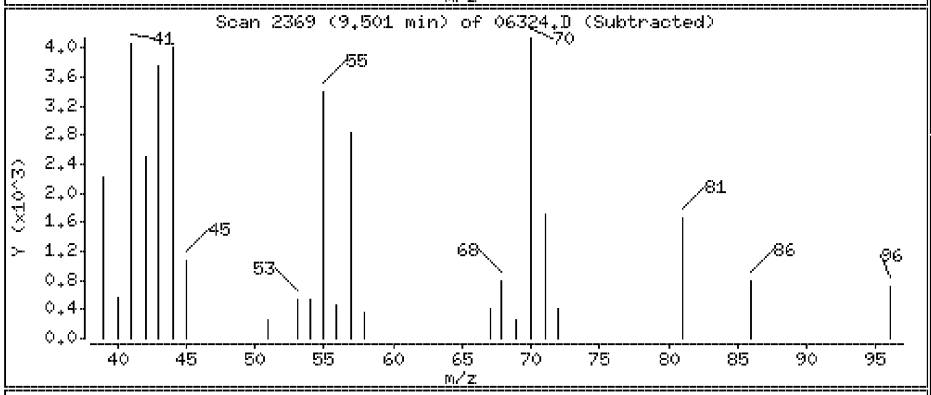
Column phase: J&W DB-5

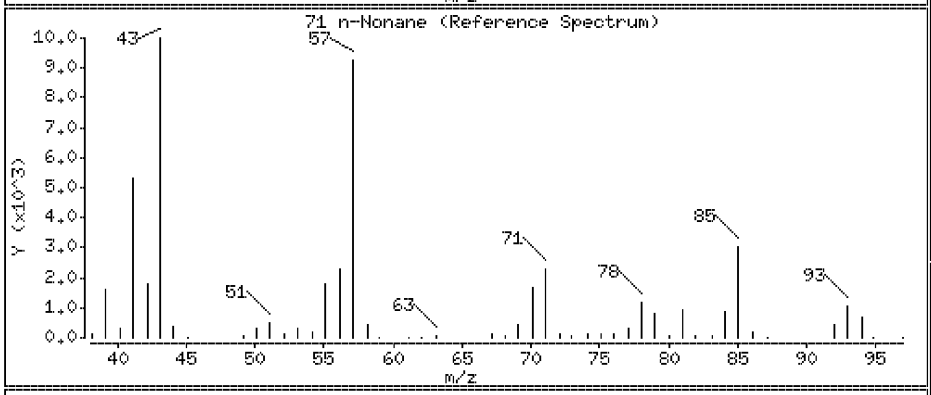
Column diameter: 0.32

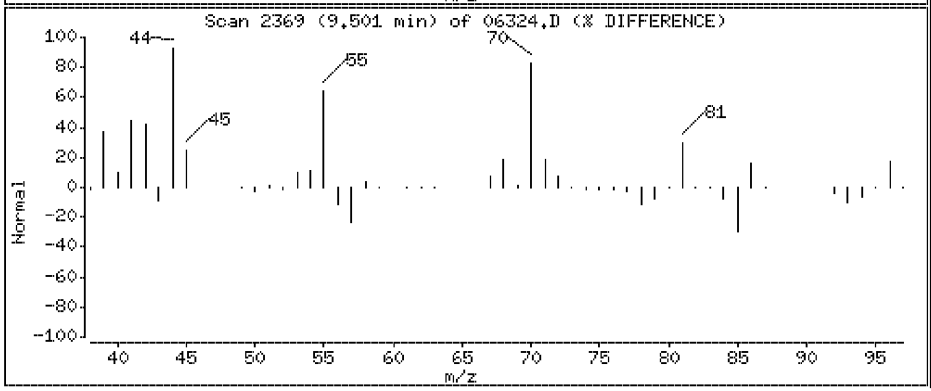
71 n-Nonane

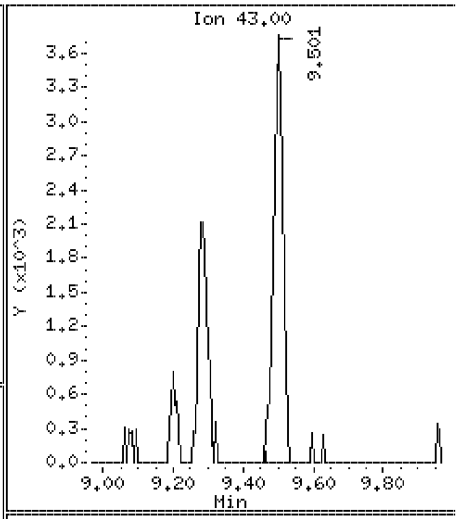
Concentration: 0.480 ppbv

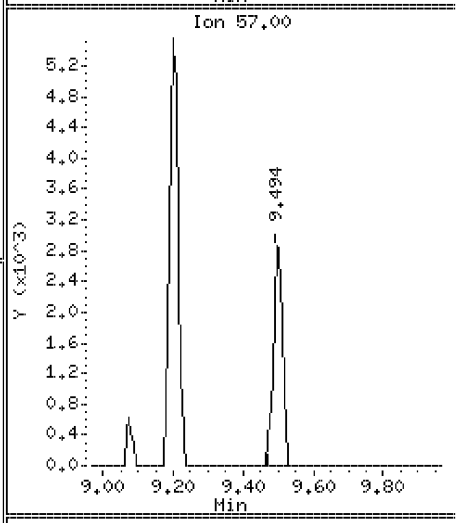


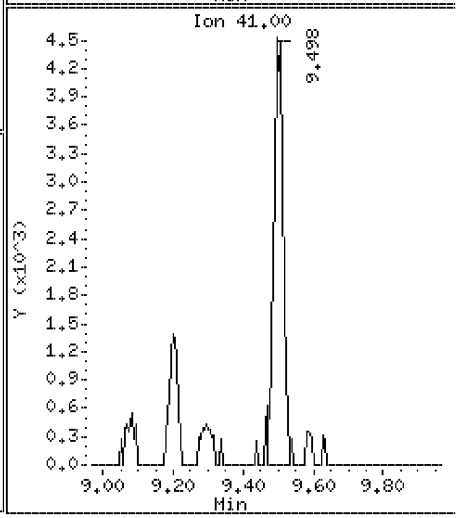












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06324.D

Date : 04-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

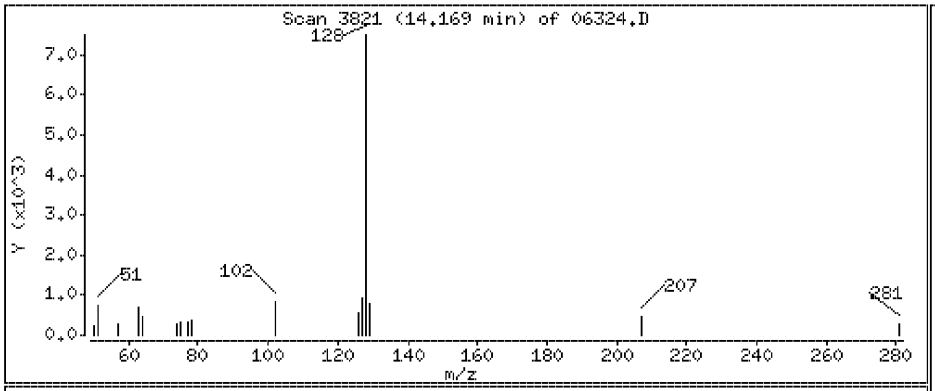
Operator: MJL

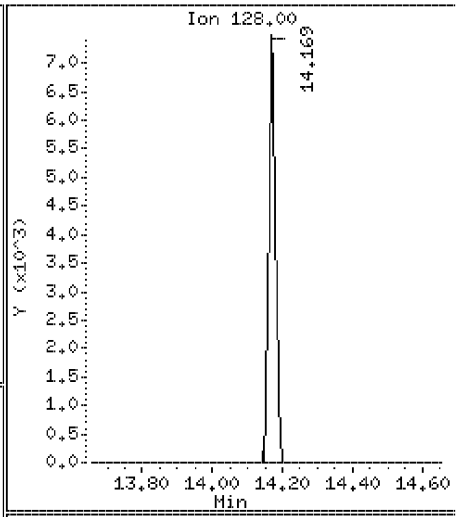
Column phase: J&W DB-5

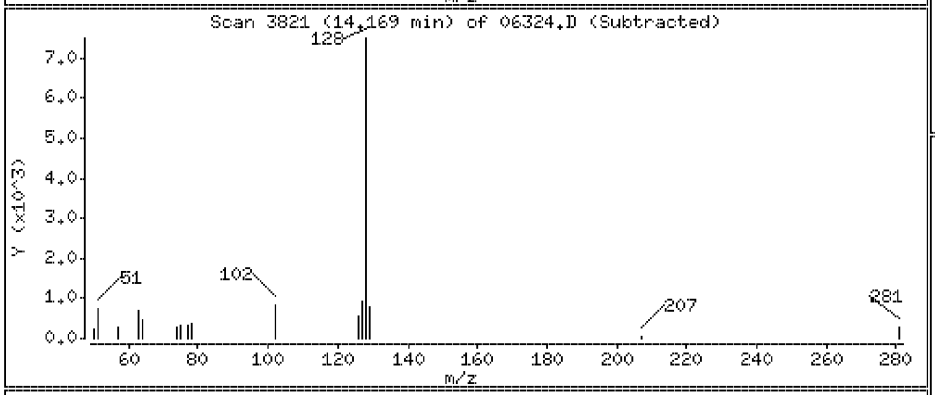
Column diameter: 0.32

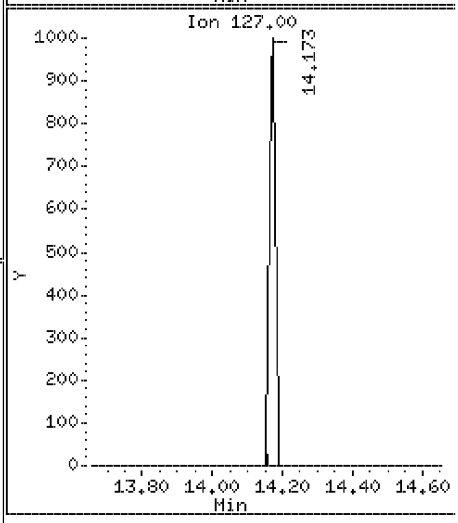
94 Naphthalene

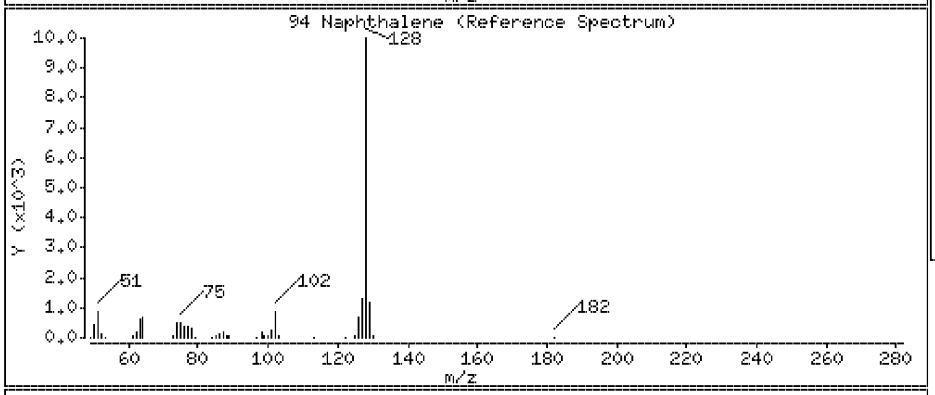
Concentration: 1.10 ppbv

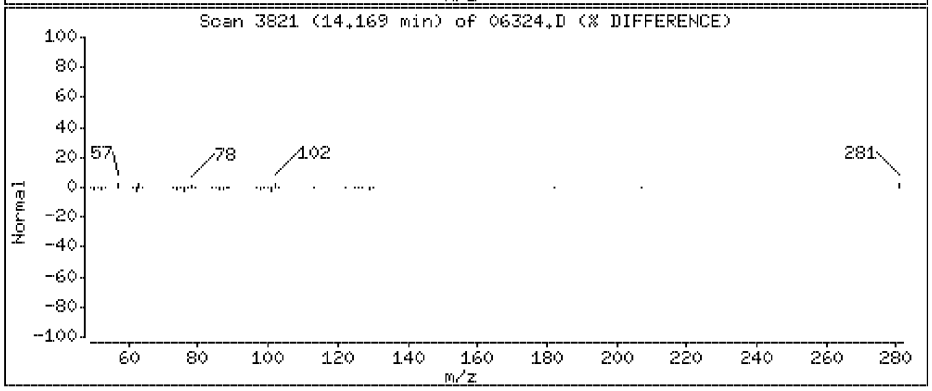






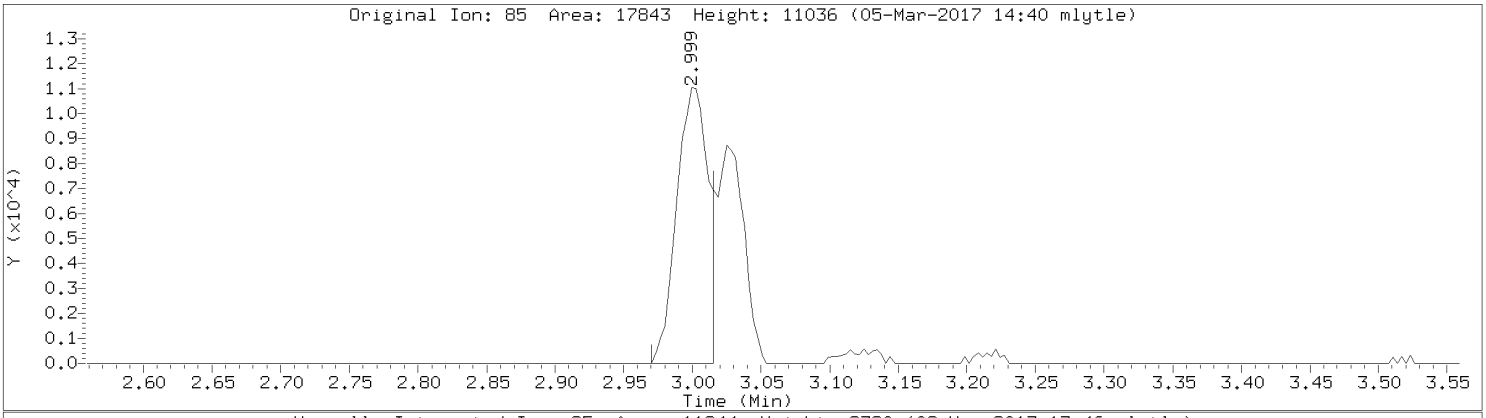


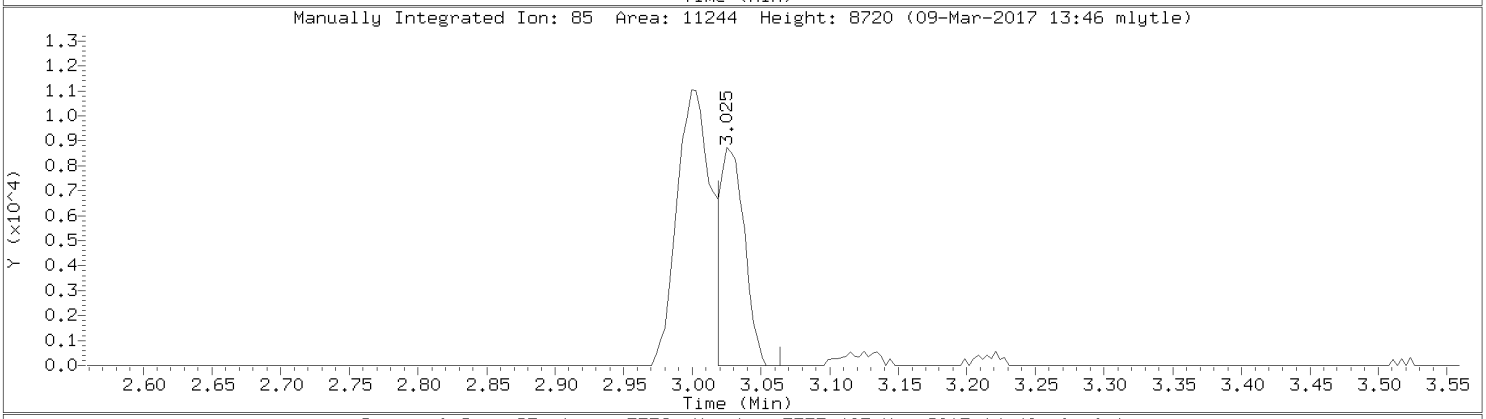


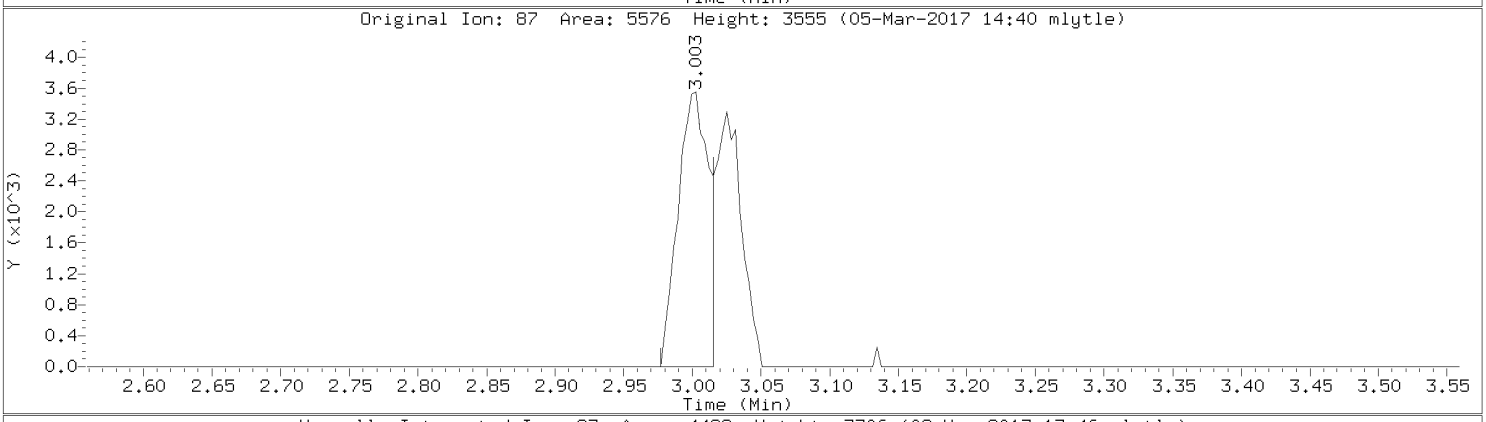


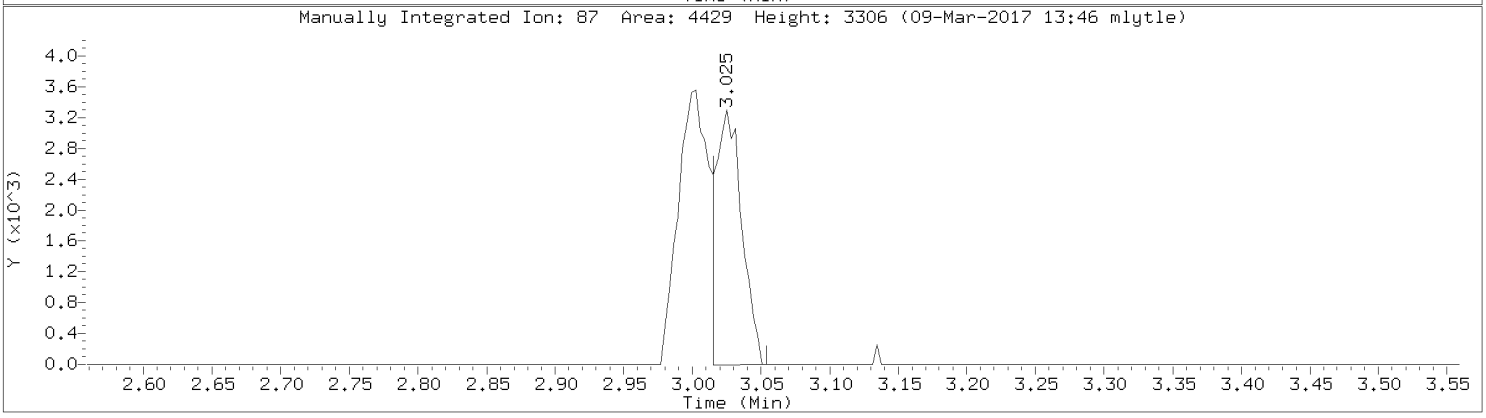
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06324.D
Injection Date: 04-MAR-2017 18:36
Instrument: 10airB.i
Lab Sample ID: 10379929016

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



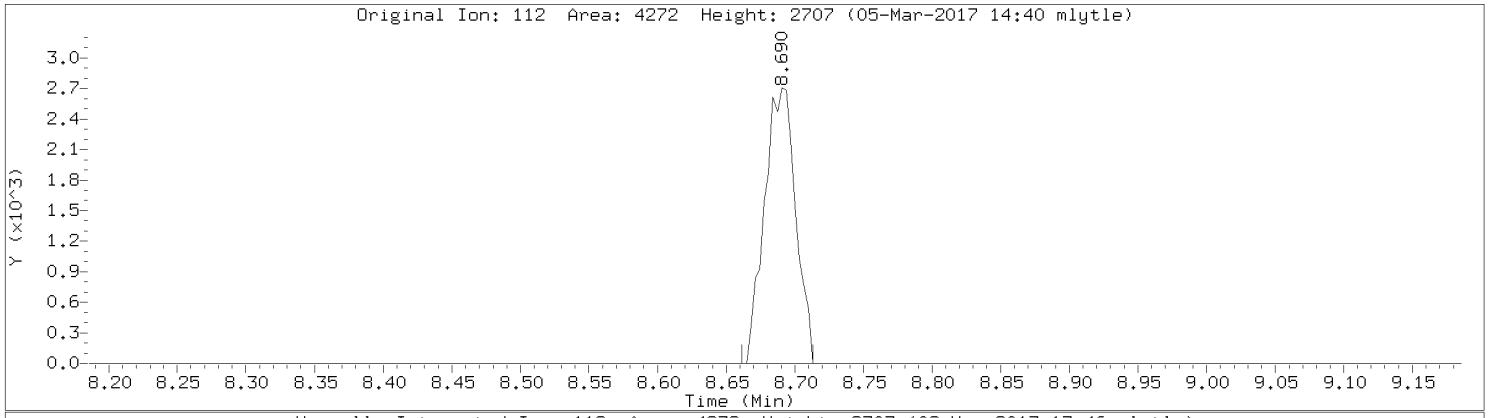


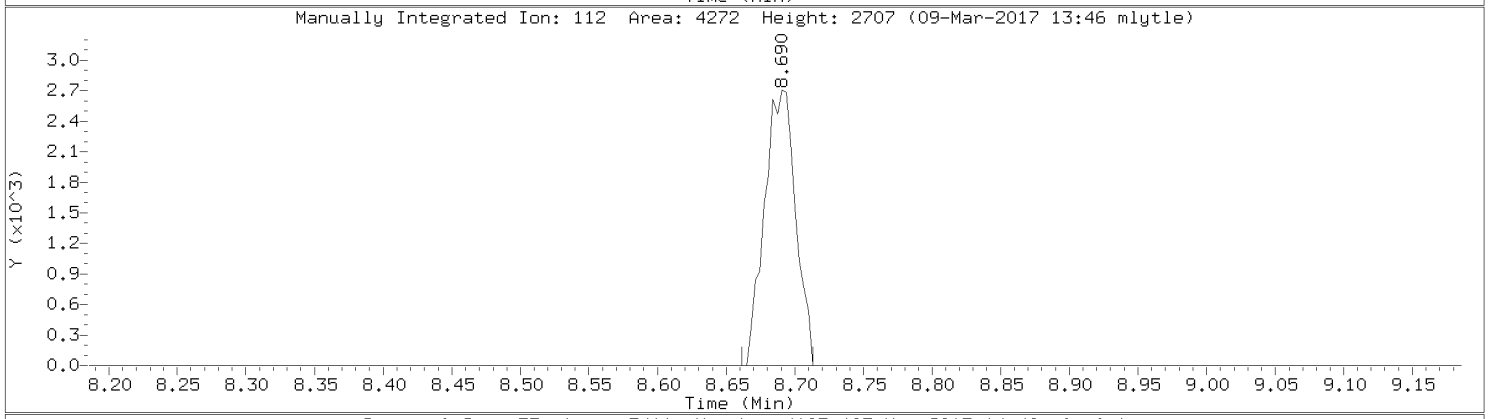


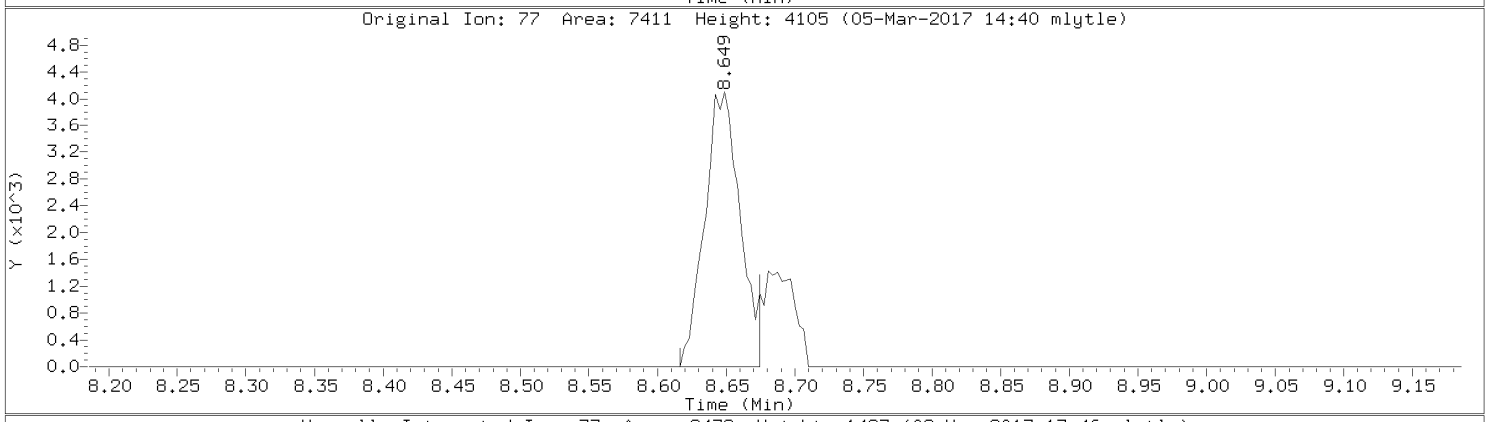


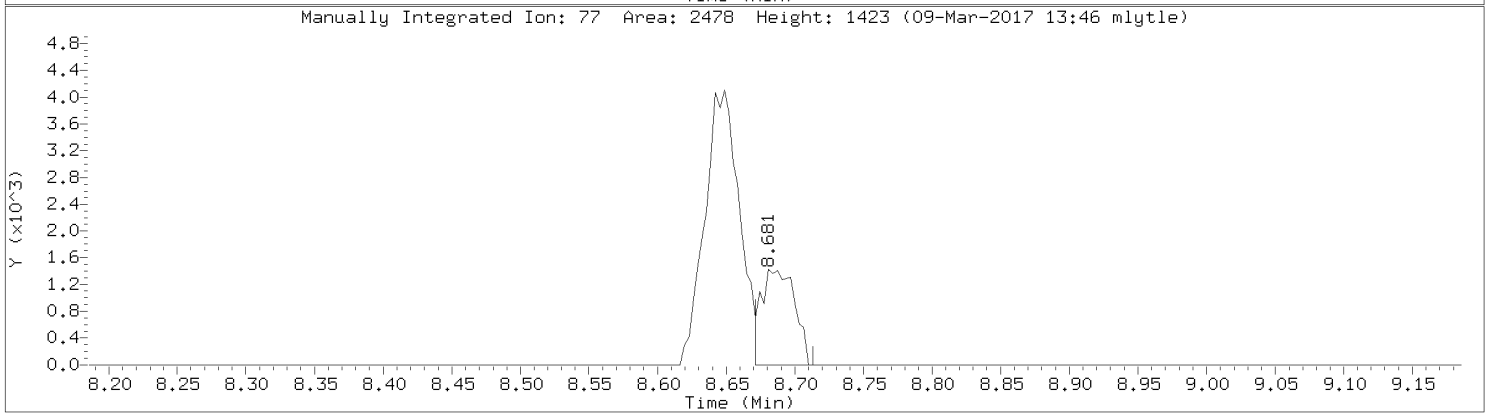
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06324.D
Injection Date: 04-MAR-2017 18:36
Instrument: 10airB.i
Lab Sample ID: 10379929016

Compound: Chlorobenzene
CAS Number: 108-90-7

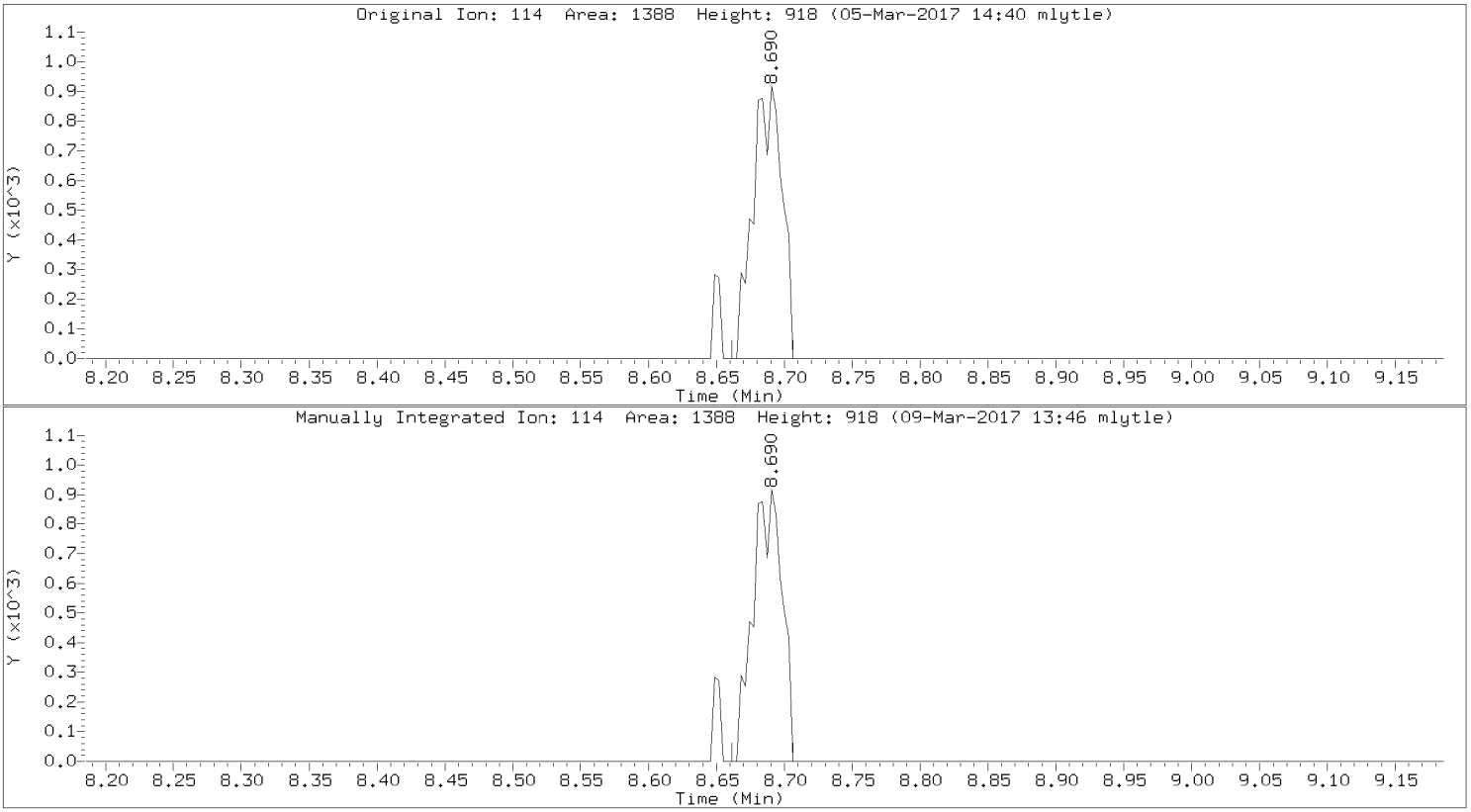






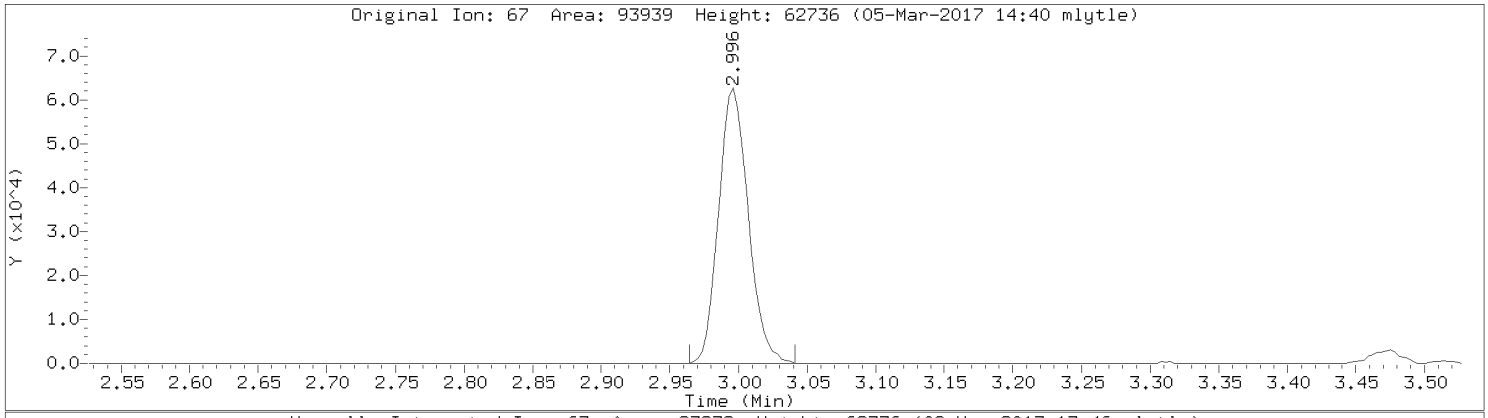


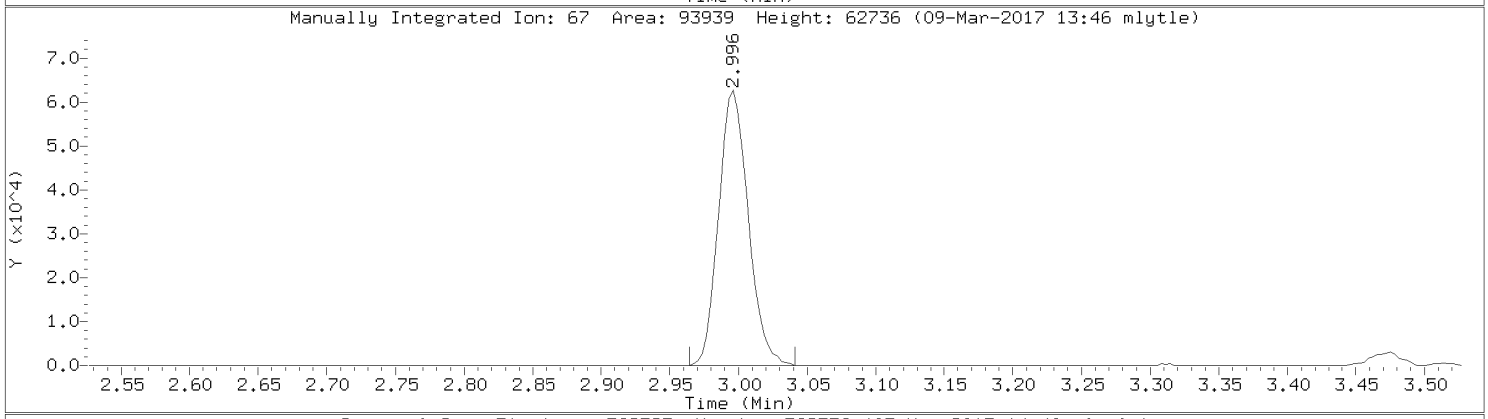
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06324.D
Injection Date: 04-MAR-2017 18:36
Instrument: 10airB.i
Lab Sample ID: 10379929016

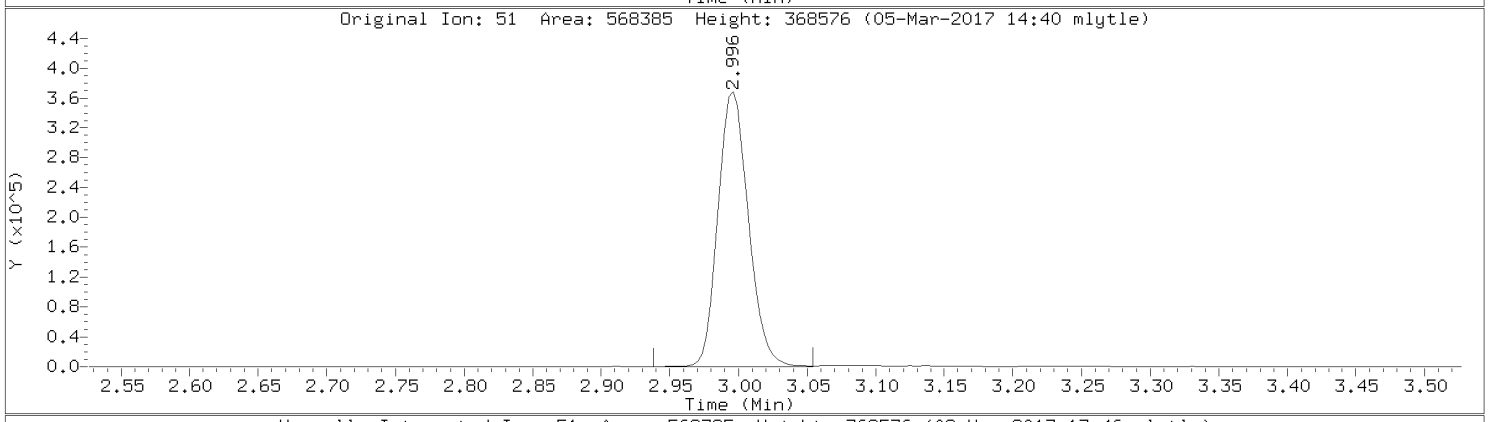


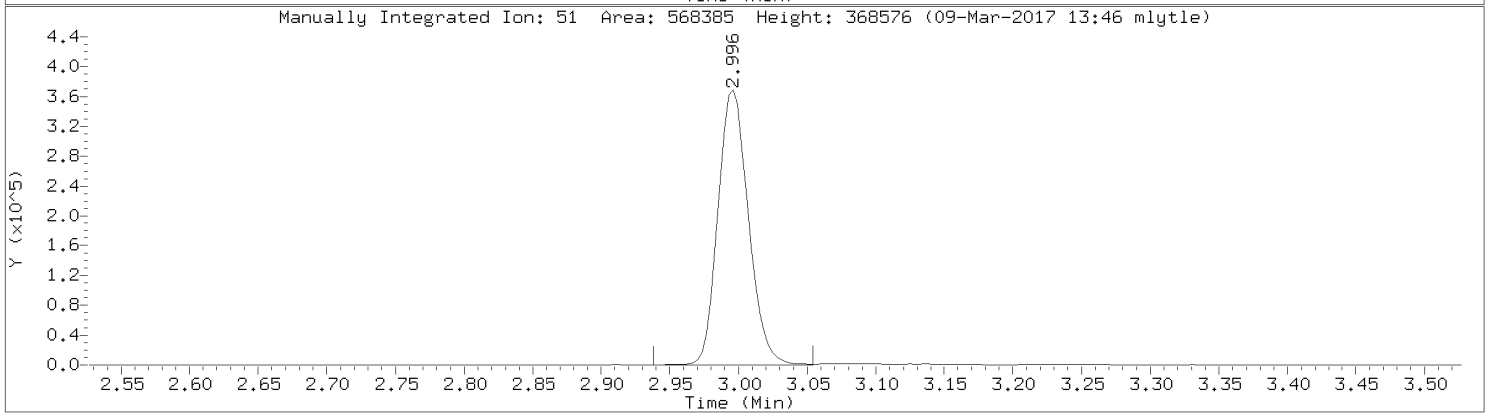
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06324.D
Injection Date: 04-MAR-2017 18:36
Instrument: 10airB.i
Lab Sample ID: 10379929016

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

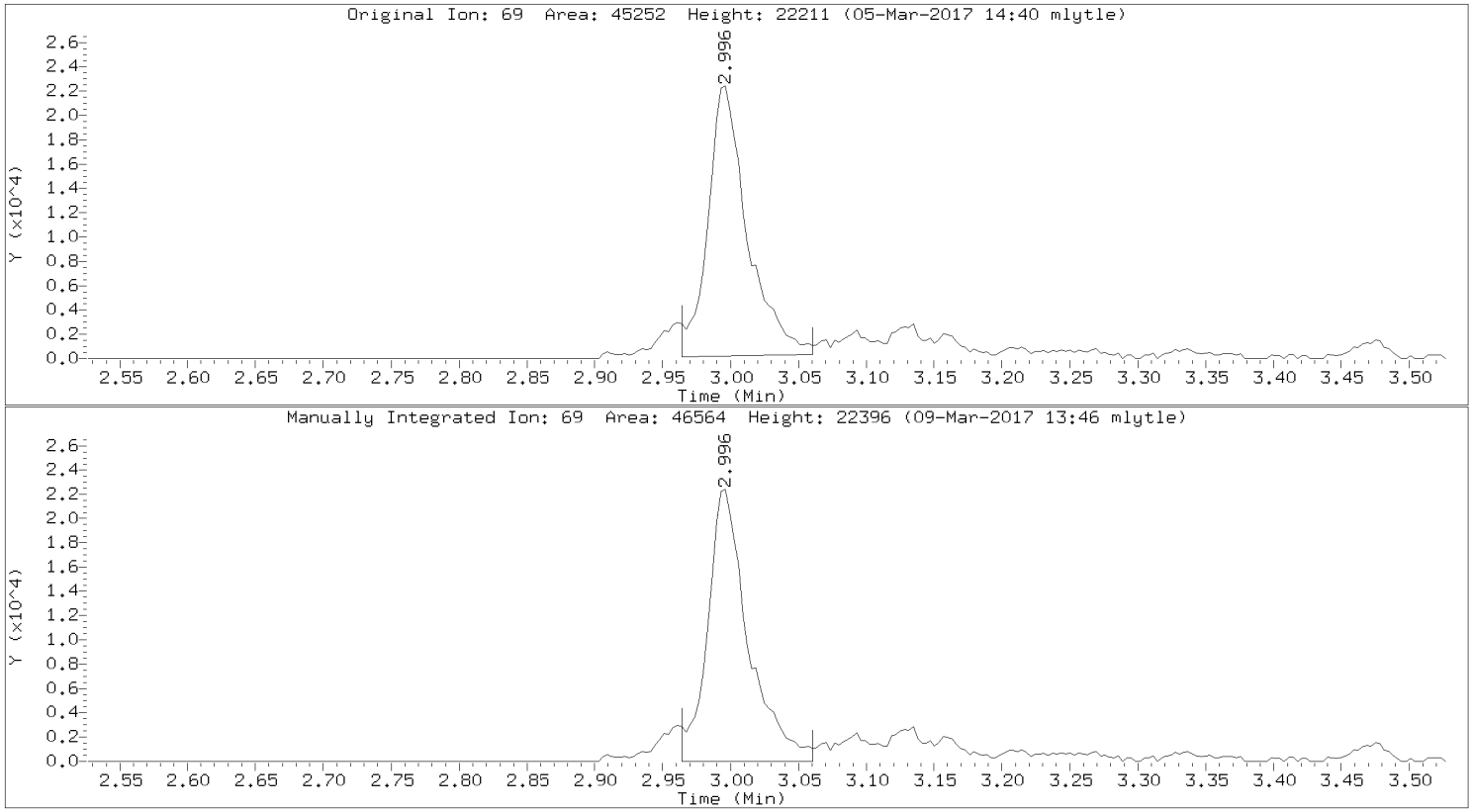








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06324.D
Injection Date: 04-MAR-2017 18:36
Instrument: 10airB.i
Lab Sample ID: 10379929016



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_72.5_20170221 **Lab ID: 10379929016** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**3110**	ug/m3	1.0	0.51	1.83		03/04/17 18:36	79-01-6	
Trichloroethene	**13200**	ug/m3	322	162	585.6		03/05/17 22:12	79-01-6	A3
Trichlorofluoromethane	**19.8**	ug/m3	2.1	0.24	1.83		03/04/17 18:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	**433**	ug/m3	2.9	0.55	1.83		03/04/17 18:36	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/04/17 18:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 18:36	108-67-8	
Vinyl chloride	**0.56**	ug/m3	0.48	0.36	1.83		03/04/17 18:36	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/04/17 18:36	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/04/17 18:36	95-47-6	

Sample: VP-8D_62.5_20170221DUP **Lab ID: 10379929017** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**7.8**	ug/m3	4.4	1.5	1.83		03/04/17 19:08	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 19:08	107-05-1	
Benzene	**0.58J**	ug/m3	0.59	0.22	1.83		03/04/17 19:08	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 19:08	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 19:08	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 19:08	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 19:08	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/04/17 19:08	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/04/17 19:08	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/04/17 19:08	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 19:08	108-90-7	
Chlorodifluoromethane	**76.4**	ug/m3	1.3	0.51	1.83		03/04/17 19:08	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 19:08	75-00-3	
Chloroform	**27.7**	ug/m3	0.91	0.35	1.83		03/04/17 19:08	67-66-3	
Chloromethane	**0.68J**	ug/m3	0.77	0.20	1.83		03/04/17 19:08	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 19:08	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/04/17 19:08	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 19:08	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 19:08	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 19:08	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 19:08	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 19:08	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 19:08	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.8	0.88	1.83		03/04/17 19:08	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 19:08	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 19:08	107-06-2	
1,1-Dichloroethene	**3.1**	ug/m3	1.5	0.44	1.83		03/04/17 19:08	75-35-4	
cis-1,2-Dichloroethene	**217**	ug/m3	1.5	0.45	1.83		03/04/17 19:08	156-59-2	
trans-1,2-Dichloroethene	**5.3**	ug/m3	1.5	0.70	1.83		03/04/17 19:08	156-60-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06431.D
Report Date: 06-Mar-2017 14:14

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06431.D
Lab Smp Id: 10379929017
Inj Date : 05-MAR-2017 21:49
Operator : CH1 Inst ID: 10air7.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 31
Dil Factor: 292.80000
Integrator: HP RTE Compound Sublist: TCE_PCE.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	292.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$	32 Hexane-d14(S)	66	3.523	3.520	(0.783)	206342	12.5184	12.5
	44 Carbon tetrachloride	117	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	4.500	4.504	(1.000)	603896	10.0000	
	51 Trichloroethene	130	4.835	4.835	(1.074)	245249	8.60747	2520
$	59 Toluene-d8 (S)	98	5.832	5.835	(1.296)	498125	9.82617	9.83
	66 Tetrachloroethene	166	6.680	6.683	(0.914)	11867	0.32064	93.9
*	67 Chlorobenzene - d5	117	7.307	7.310	(1.000)	373279	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	10.484	10.487	(1.435)	120941	7.91884	7.92

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06431.D
Report Date: 06-Mar-2017 14:14

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06431.D
Lab Smp Id: 10379929017
Analysis Type: VOA
Quant Type: ISTD
Operator: CH1
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info: 27836

Calibration Date: 05-MAR-2017
Calibration Time: 10:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

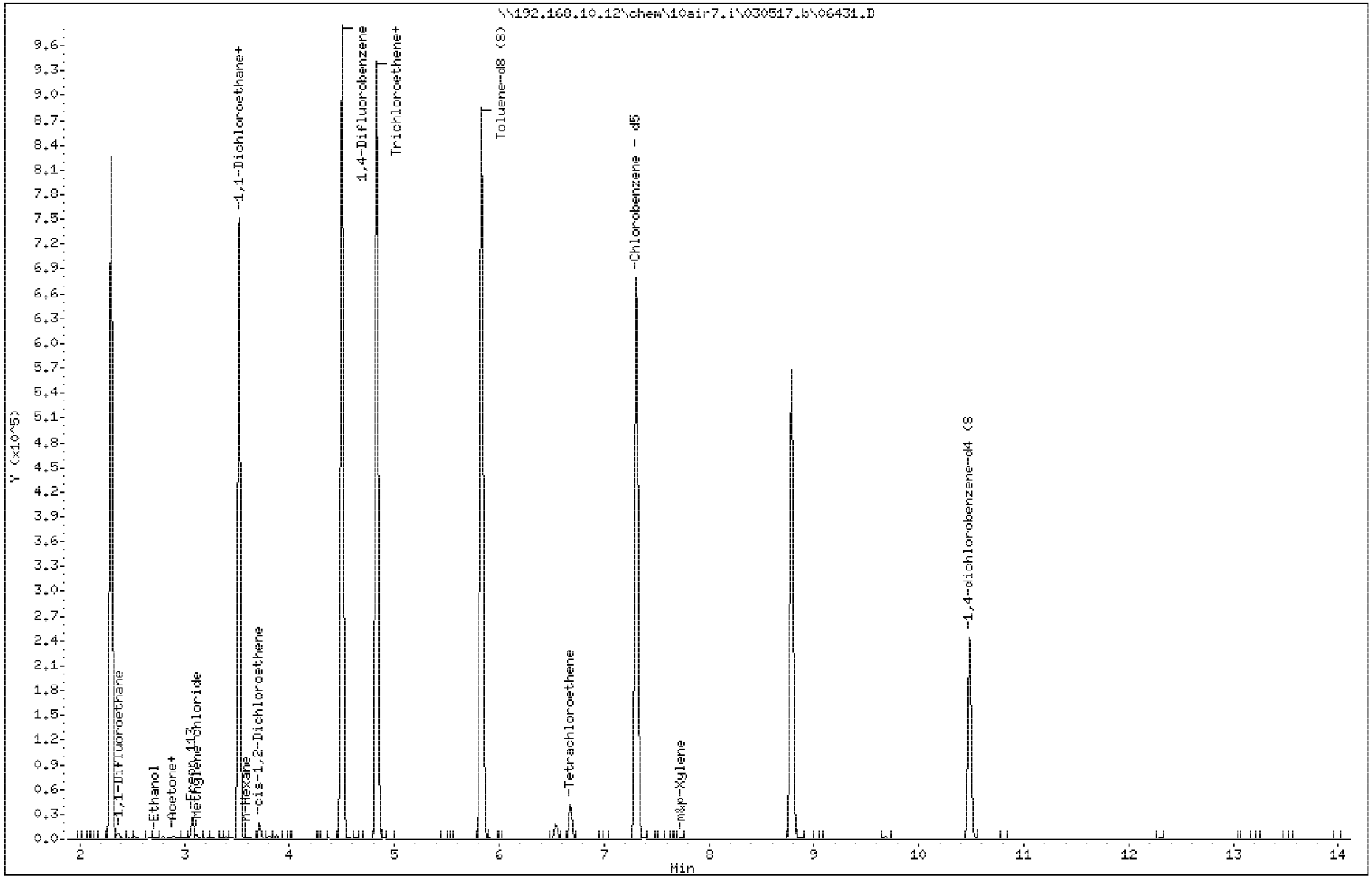
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	603896	-27.76
67 Chlorobenzene - d	539522	323713	755331	373279	-30.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.50	4.17	4.83	4.50	-0.07
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06431.D
Date : 05-MAR-2017 21:49
Client ID:
Sample Info:

Instrument: 10air7.i
Operator: CH1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06431.D

Date : 05-MAR-2017 21:49

Client ID:

Instrument: 10air7.i

Sample Info:

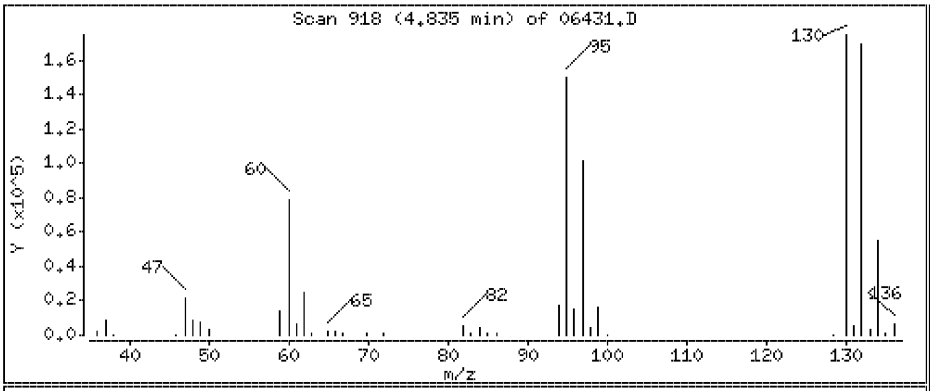
Operator: CH1

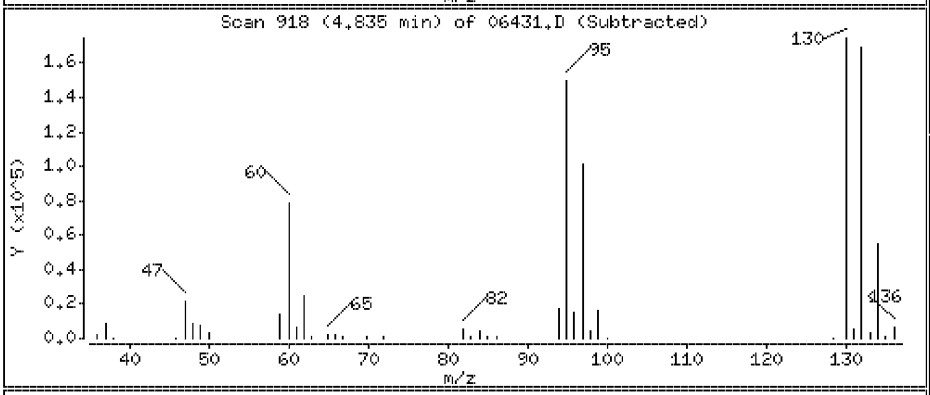
Column phase: J&W DB-5

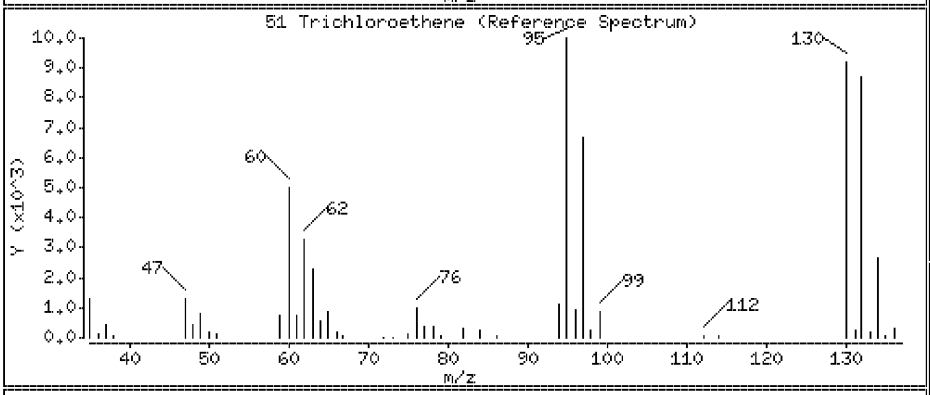
Column diameter: 0.32

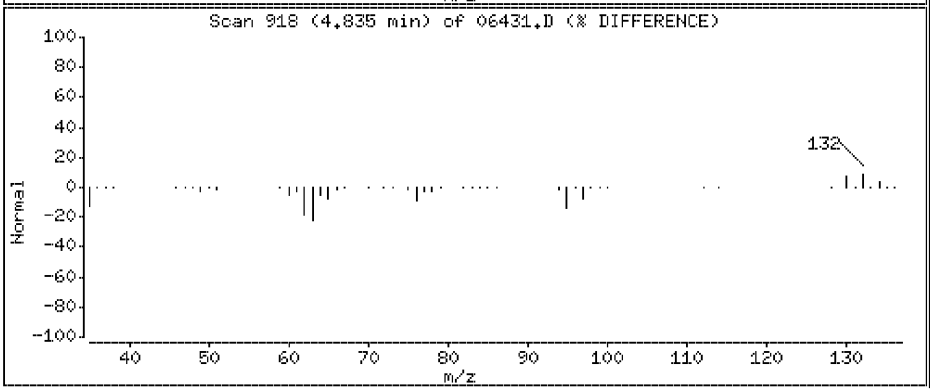
51 Trichloroethene

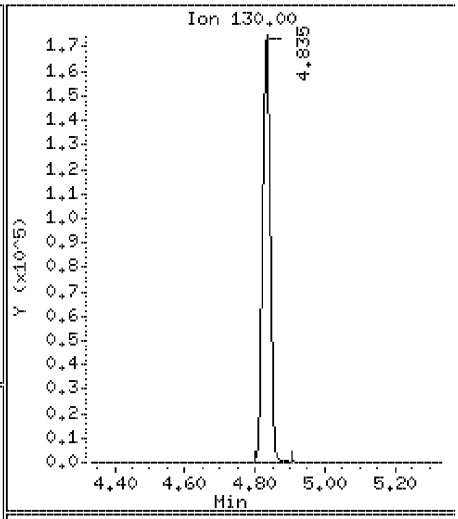
Concentration: 2520 ppbv

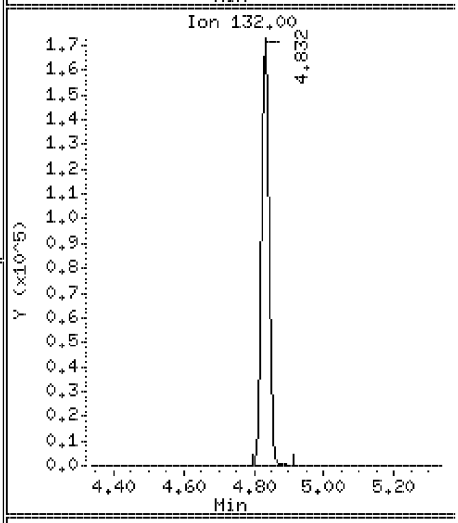


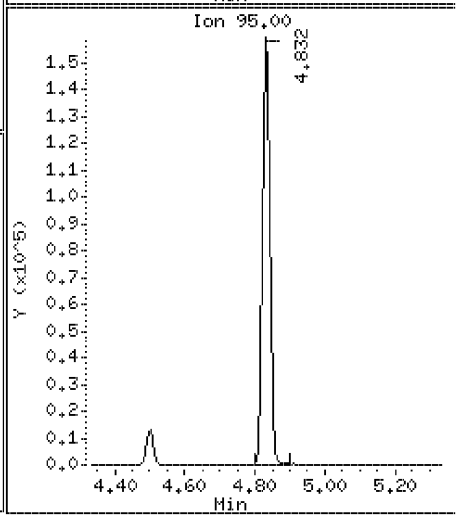












Data File: \\192.168.10.12\chem\10air7.i\030517.b\06431.D

Date : 05-MAR-2017 21:49

Client ID:

Instrument: 10air7.i

Sample Info:

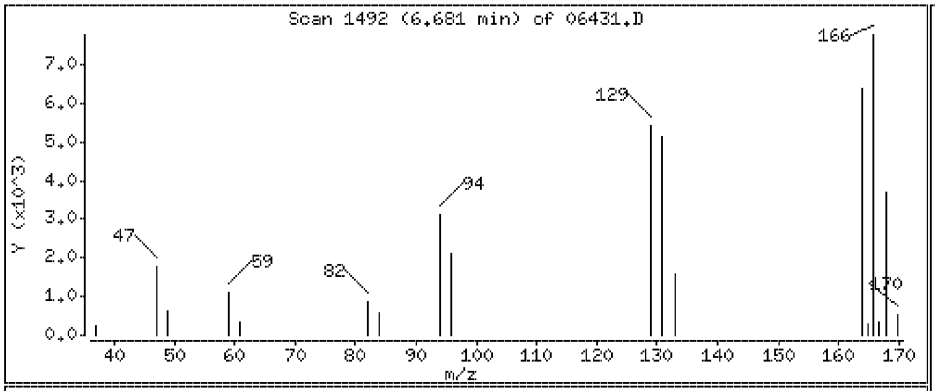
Operator: CH1

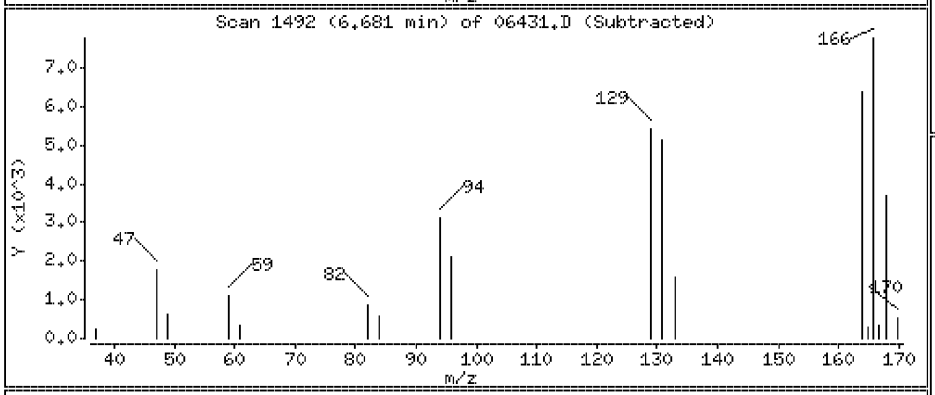
Column phase: J&W DB-5

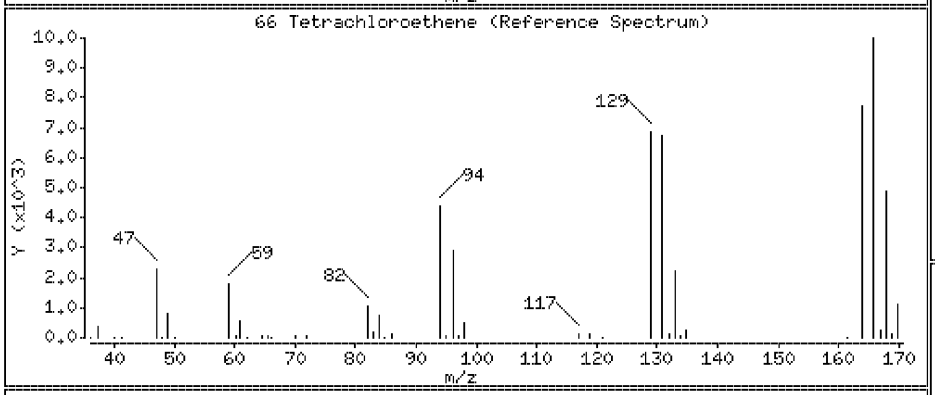
Column diameter: 0.32

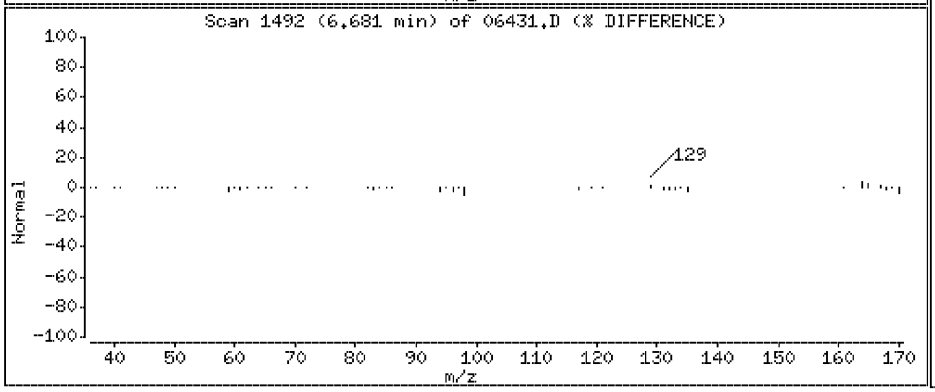
66 Tetrachloroethene

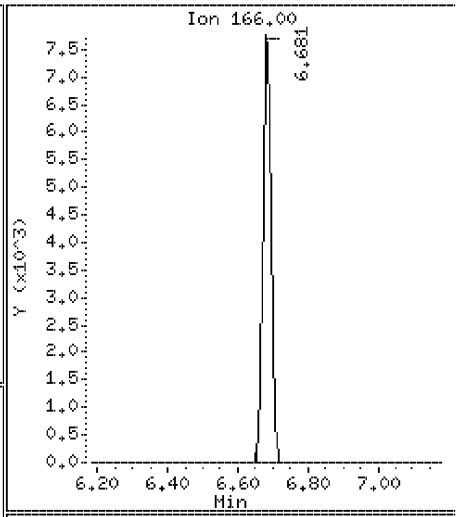
Concentration: 93.9 ppbv

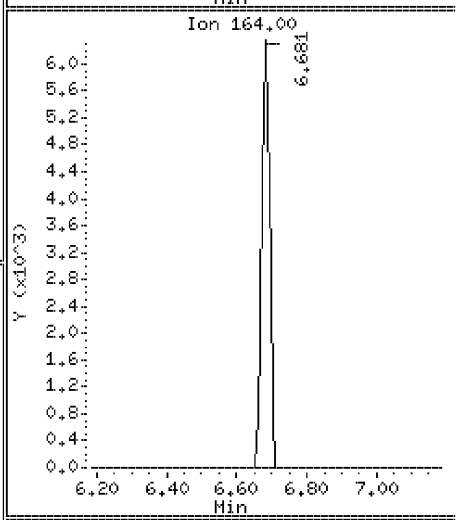


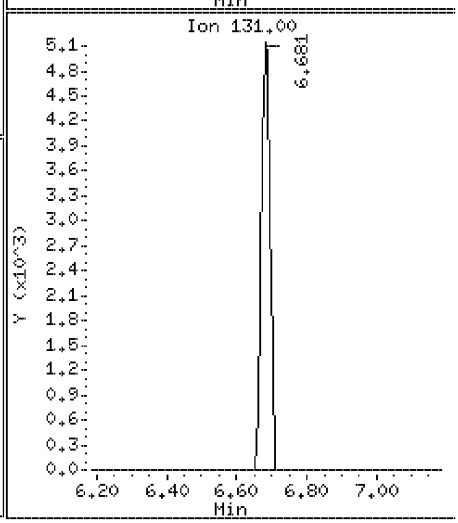












Data File: \\192.168.10.12\chem\10air7.i\030517.b/06431.D
Injection Date: 05-MAR-2017 21:49
Instrument: 10air7.i
Lab Sample ID: 10379929017
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D
Report Date: 05-Mar-2017 15:34

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06325.D
Lab Smp Id: 10379929017
Inj Date : 04-MAR-2017 19:08
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 25
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	2.986	3.018	(0.531)	70949	9.35421	17.1(Q)	
3	Chlorodifluoromethane	67	2.996	3.028	(0.533)	42201	11.6153	21.3(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.025	3.060	(0.538)	12715	0.26937	0.493	
6	Chloromethane	50	3.121	3.156	(0.555)	2613	0.17579	0.322	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.545	(0.630)	35078	7.37916	13.5	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.635	3.674	(0.647)	31510	0.88840	1.63	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.722	3.722	(0.662)	36084	1.75788	3.22	
19	Isopropyl Alcohol	45	3.774	3.767	(0.672)	12252	0.58525	1.07	
20	1,1-Dichloroethene	61	3.880	3.909	(0.690)	8664	0.42001	0.769(H)	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.935	3.951	(0.700)	340847	12.7258	23.3	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D
Report Date: 05-Mar-2017 15:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.970	4.005	(0.706)	9396	0.64853	1.19(H)	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	4.246	4.275	(0.756)	8252	0.71298	1.30	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.797)	375692	9.12752	9.13	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.703	4.725	(0.837)	380190	29.4007	53.8(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.819	4.841	(0.858)	81867	3.05449	5.59	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.478	5.468	(0.975)	4066	0.09745	0.178(M)	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.619	5.613	(1.000)	1293727	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.005	5.989	(1.069)	6448639	296.666	543(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.082	7.076	(1.260)	1090555	9.41821	9.42	
	60 1,1,2-Trichloroethane	97	7.147	7.143	(1.272)	9355	0.53915	0.987	
	61 Toluene	91	7.156	7.153	(1.273)	6423	0.12292	0.225	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.992	7.986	(0.924)	907158	30.8812	56.5(A)	
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	845977	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D
Report Date: 05-Mar-2017 15:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)		
78	4-Ethyltoluene	105	Compound Not Detected.							
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.							
80	n-Decane	57	11.384	11.378	(2.026)	2927	0.32347	0.592	(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.							
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.							(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.							
84	Sec- Butylbenzene	105	Compound Not Detected.							
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	463862	9.95369	9.95		
86	Benzyl Chloride	91	Compound Not Detected.							
87	1,4-Dichlorobenzene	146	Compound Not Detected.							
88	p-Isopropyltoluene	119	Compound Not Detected.							
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.							
90	1,2-Dichlorobenzene	146	Compound Not Detected.							
91	N-Butylbenzene	91	Compound Not Detected.							
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.							
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.							
94	Naphthalene	128	14.172	14.156	(1.639)	13032	0.70916	1.30		
95	Hexachlorobutadiene	225	Compound Not Detected.							

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D
Report Date: 05-Mar-2017 15:34

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06325.D
Lab Smp Id: 10379929017
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

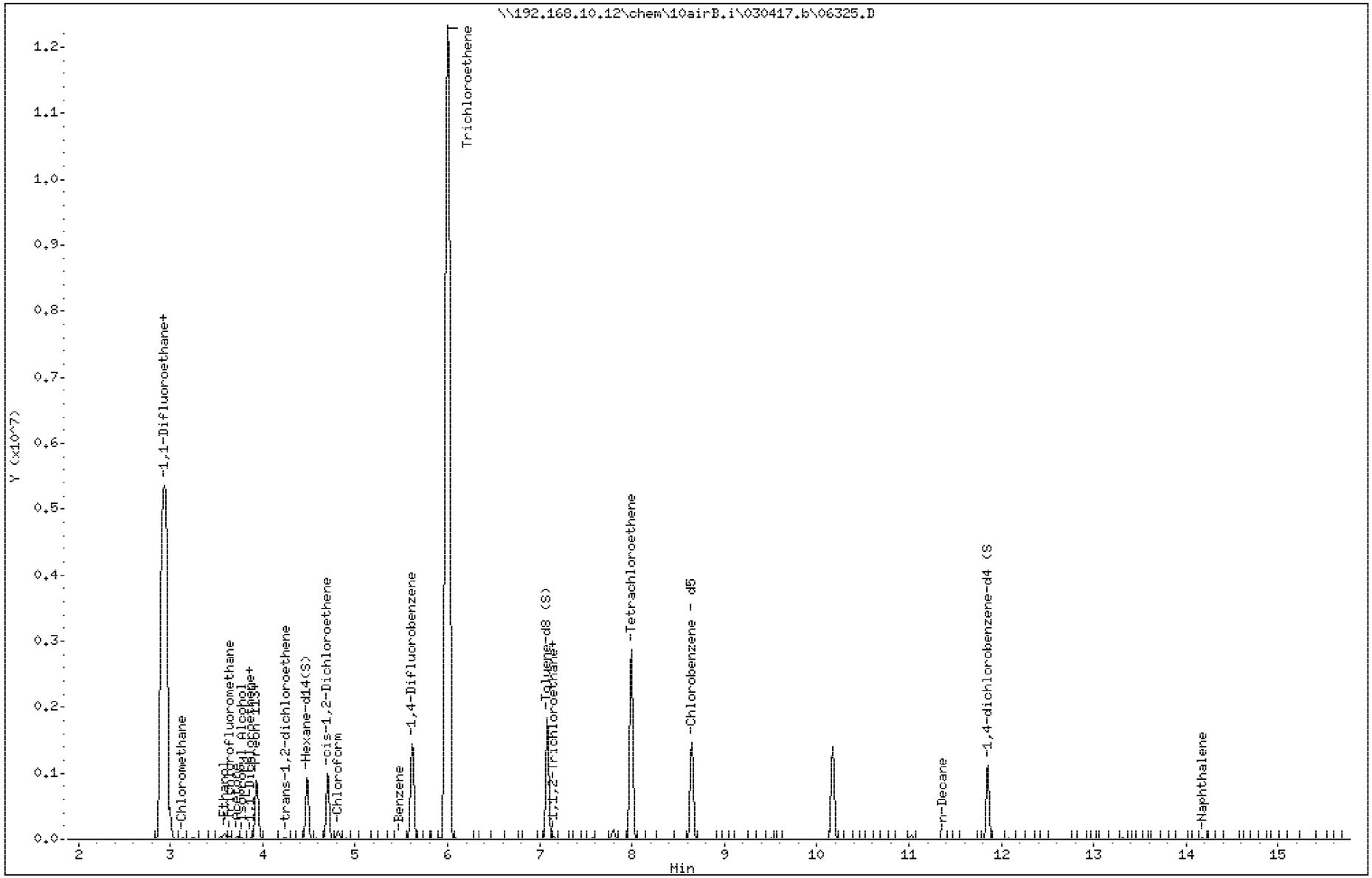
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1293727	-8.51
67 Chlorobenzene - d	951026	570616	1331436	845977	-11.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.12
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D
Date : 04-MAR-2017 19:08
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

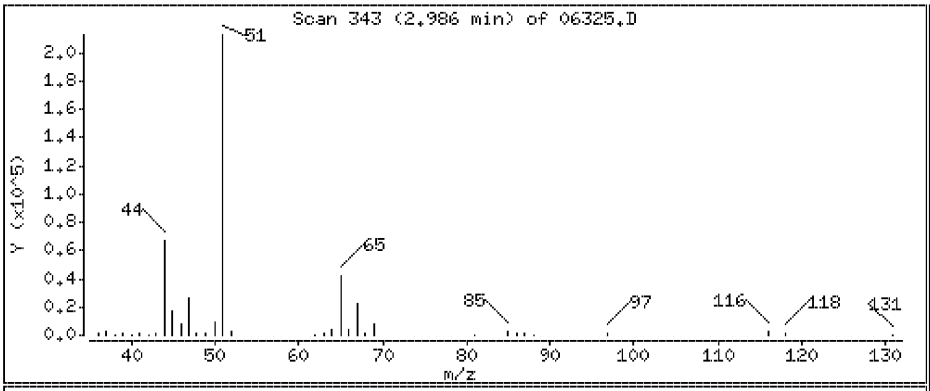
Operator: MJL

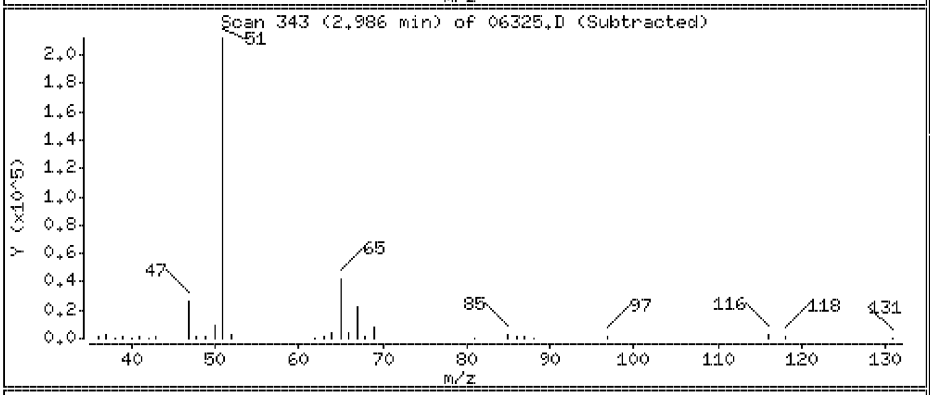
Column phase: J&W DB-5

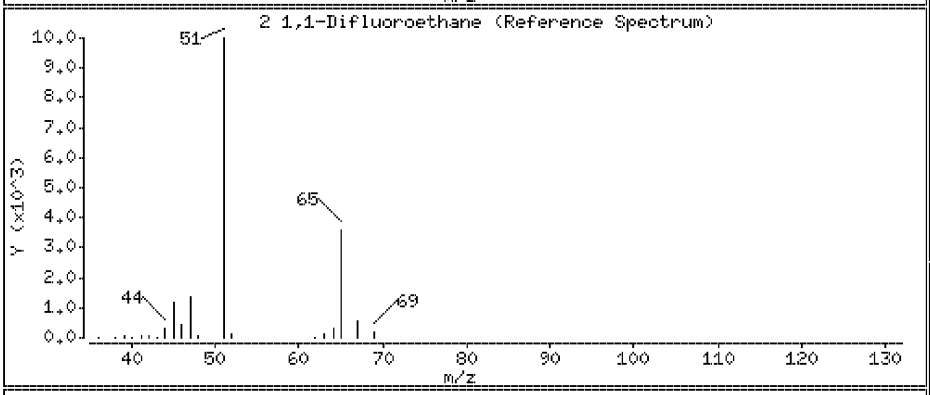
Column diameter: 0.32

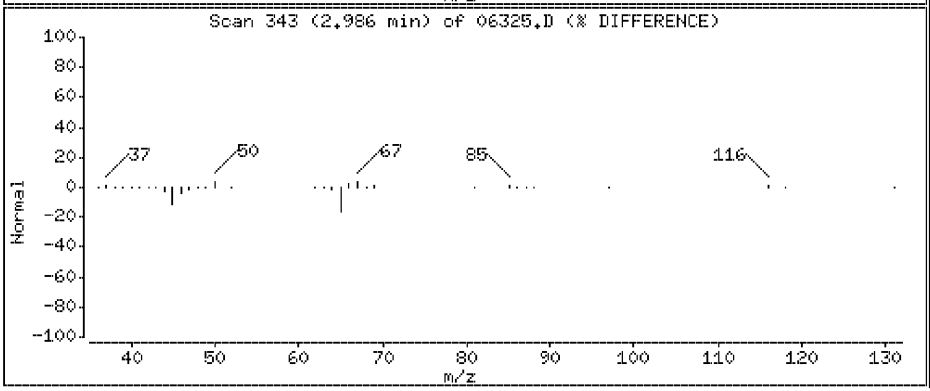
2 1,1-Difluoroethane

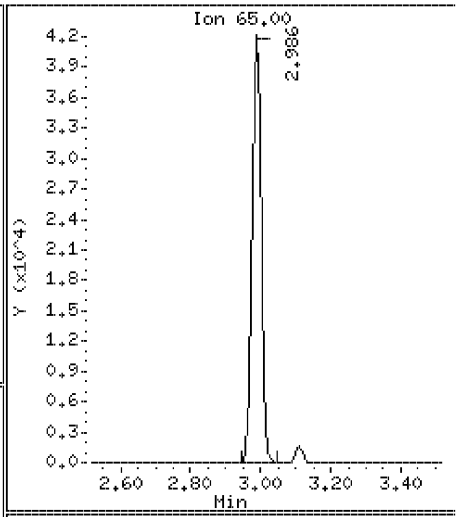
Concentration: 17.1 ppbv

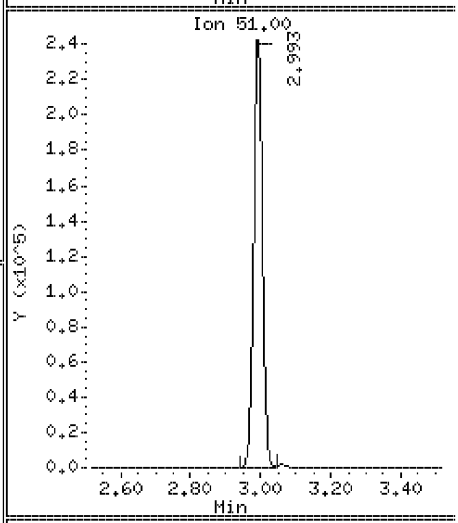


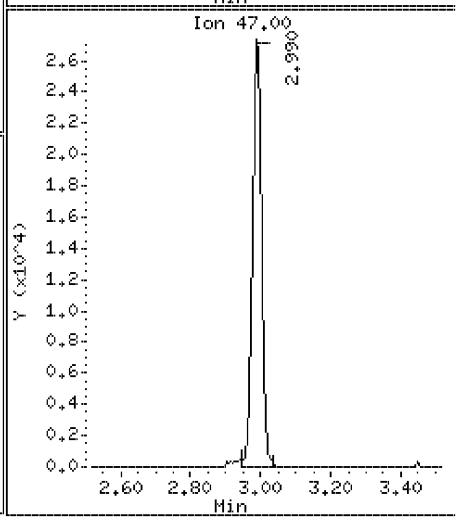












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

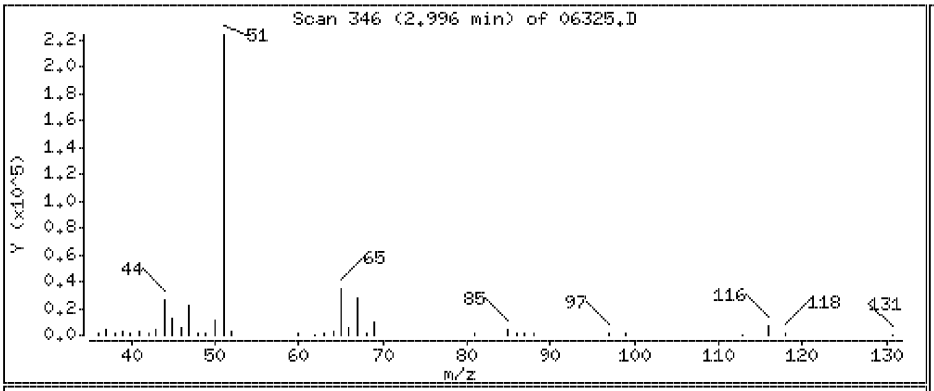
Operator: MJL

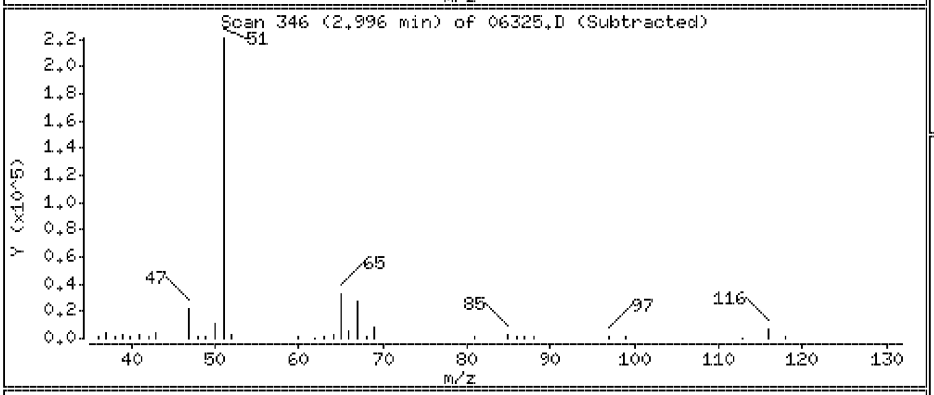
Column phase: J&W DB-5

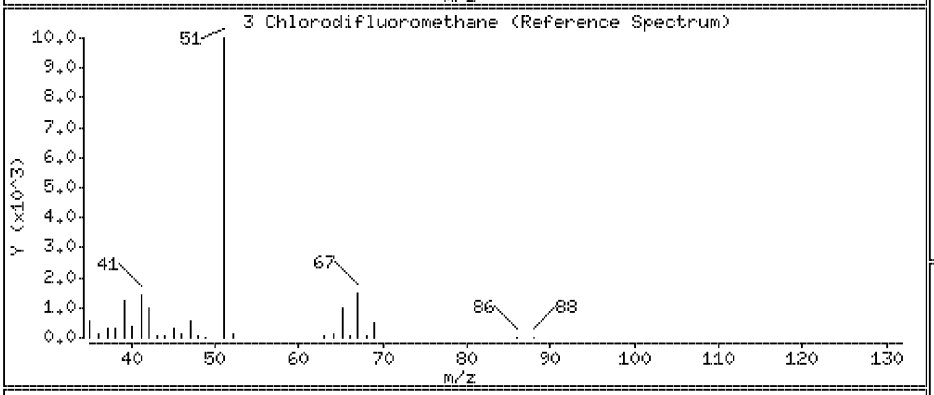
Column diameter: 0.32

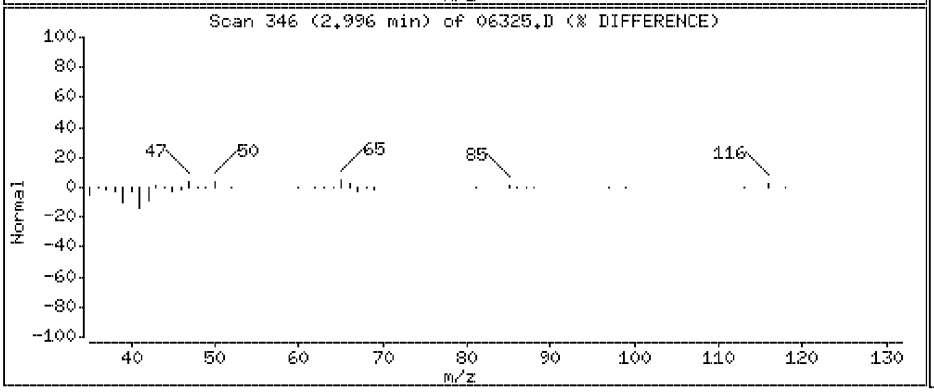
3 Chlorodifluoromethane

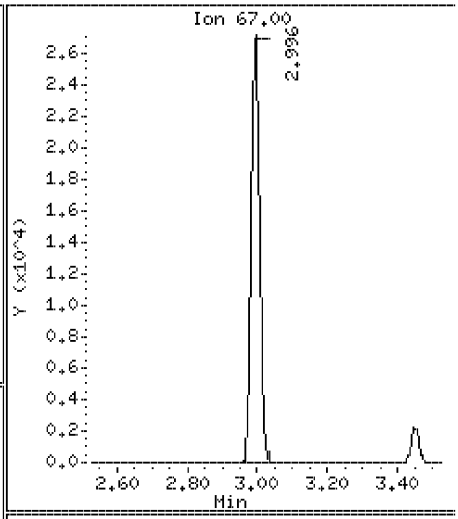
Concentration: 21.3 ppbv

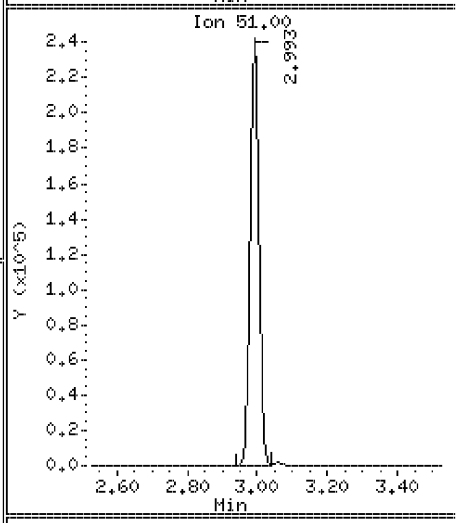


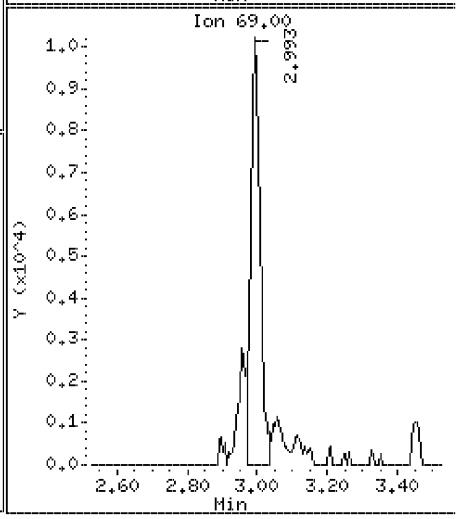












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

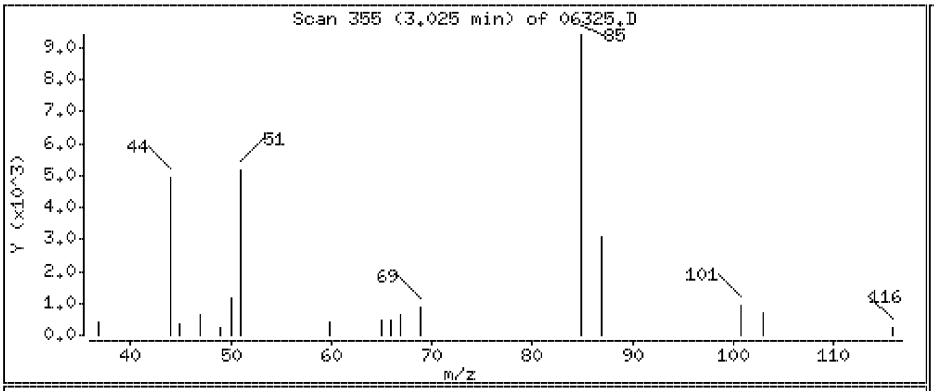
Operator: MJL

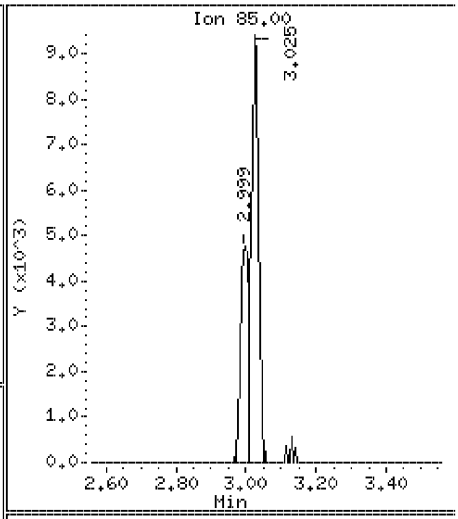
Column phase: J&W DB-5

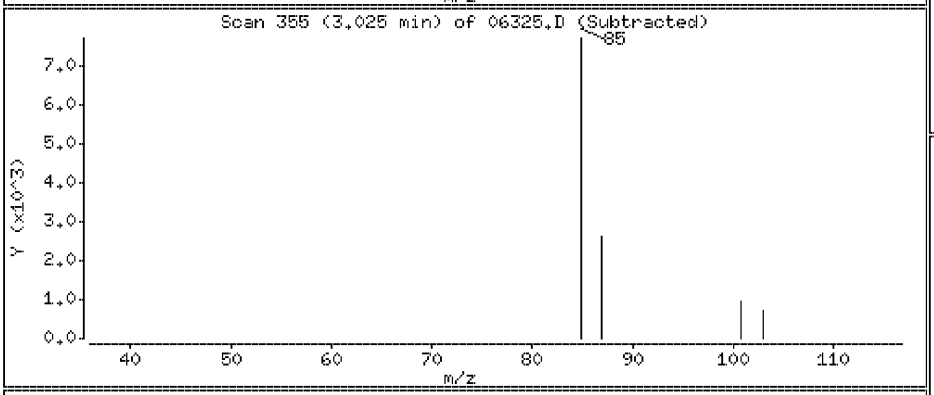
Column diameter: 0.32

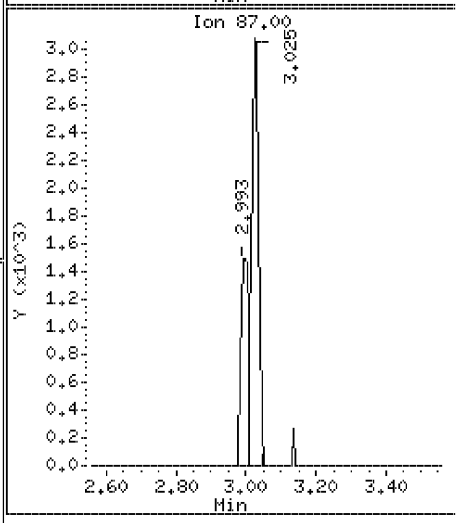
5 Dichlorodifluoromethane

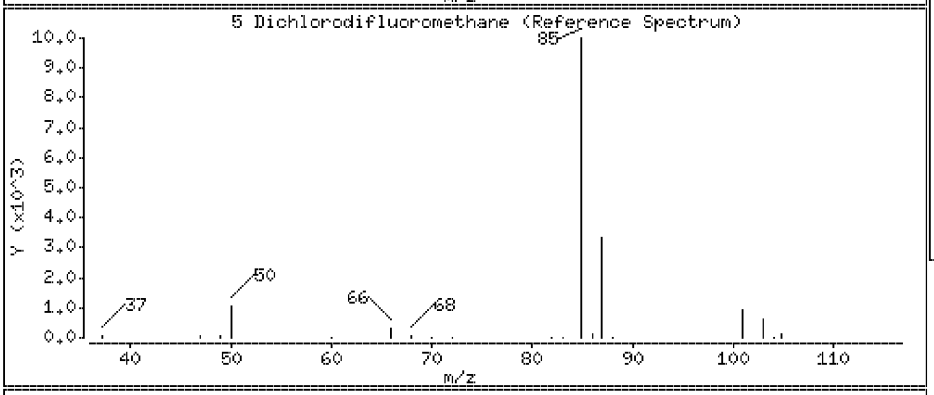
Concentration: 0.493 ppbv

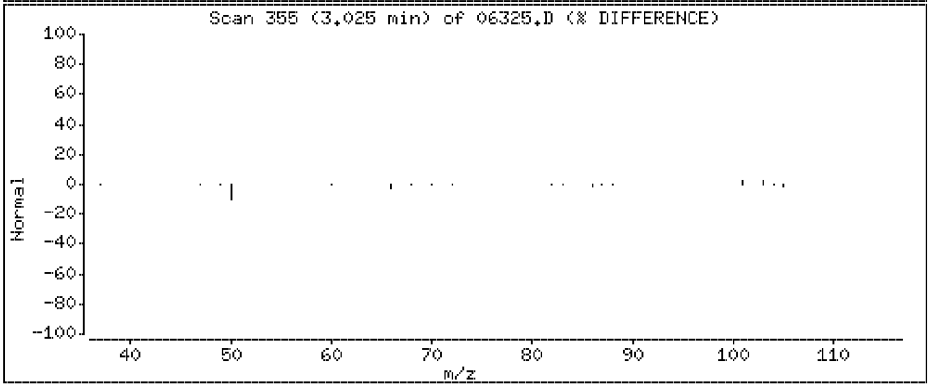












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

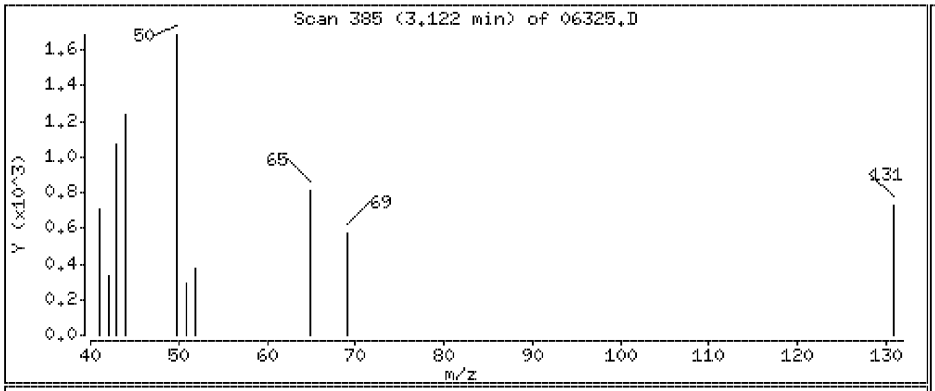
Operator: MJL

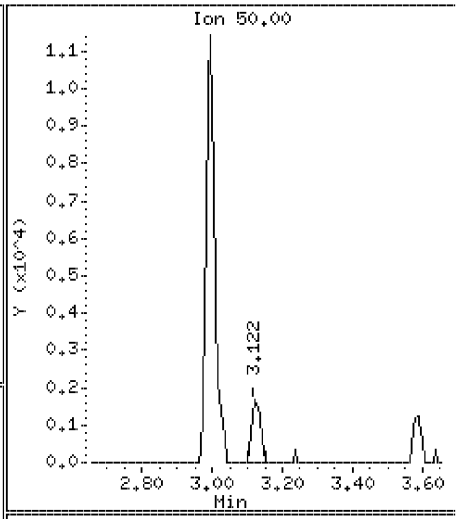
Column phase: J&W DB-5

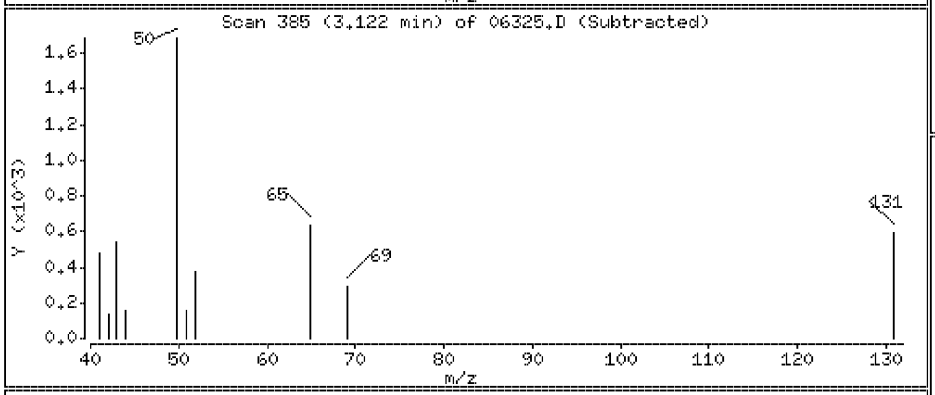
Column diameter: 0.32

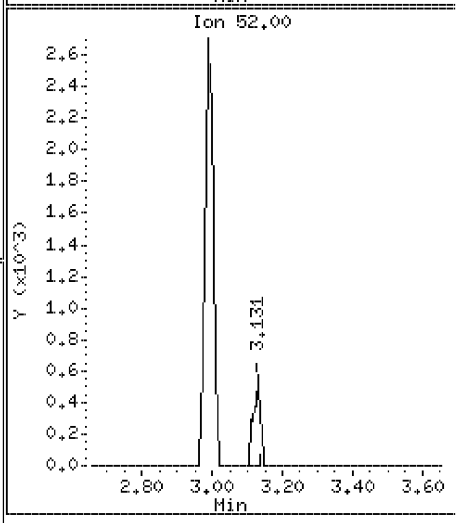
6 Chloromethane

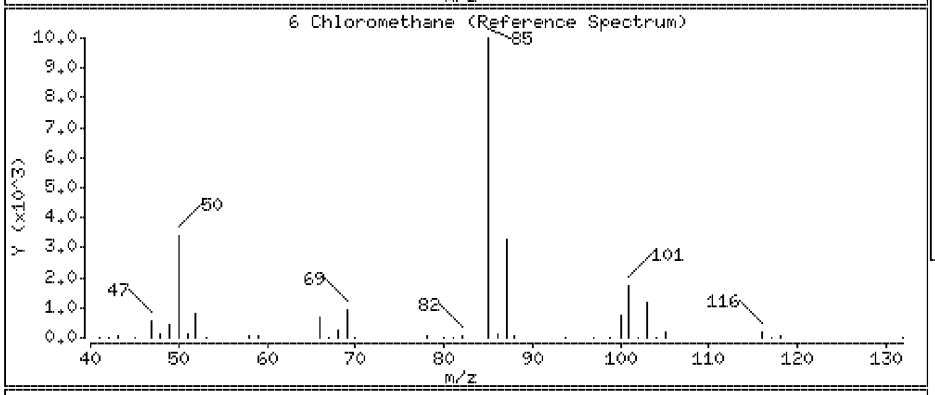
Concentration: 0.322 ppbv

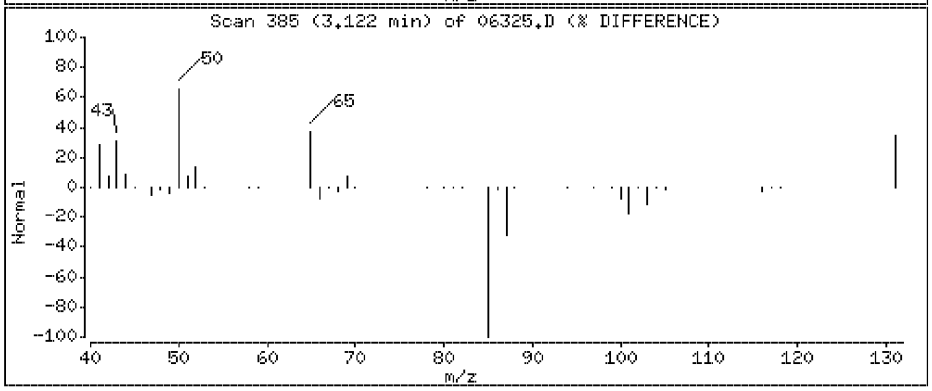












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

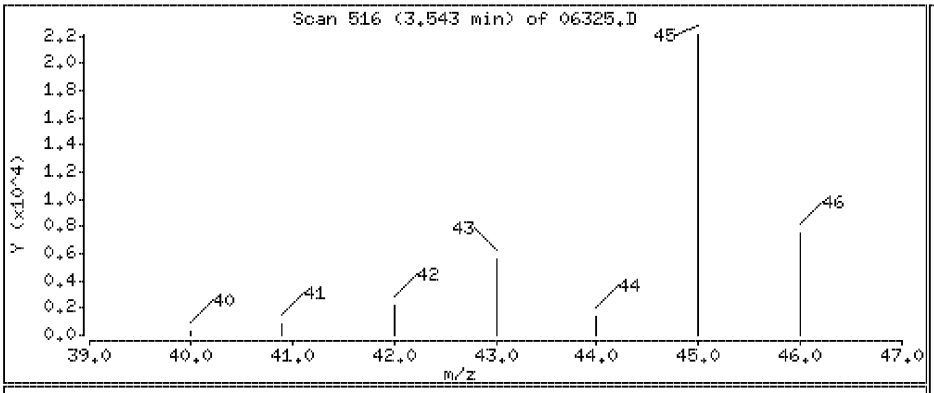
Operator: MJL

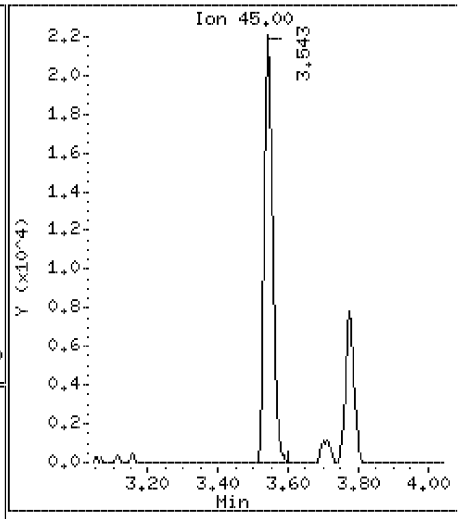
Column phase: J&W DB-5

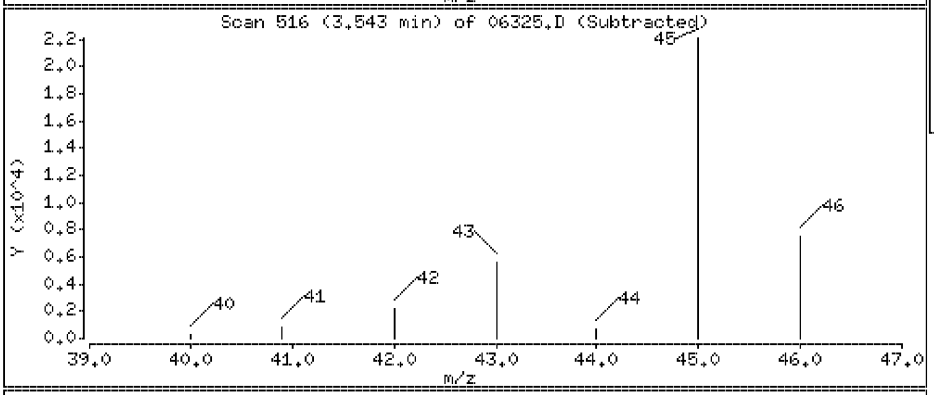
Column diameter: 0.32

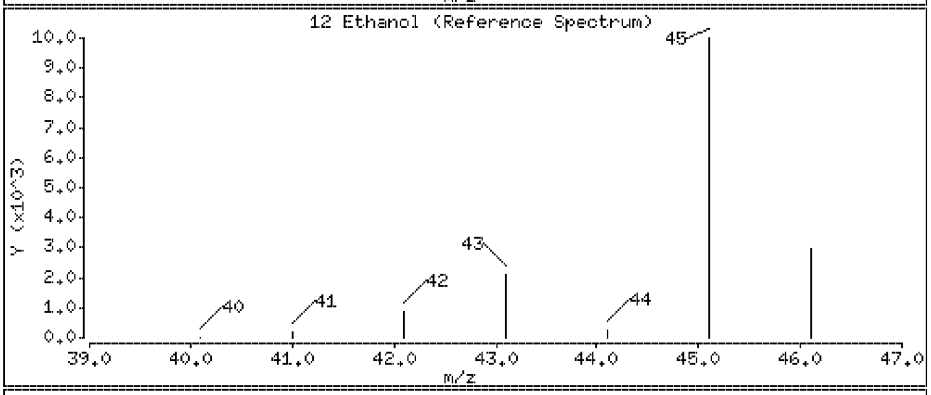
12 Ethanol

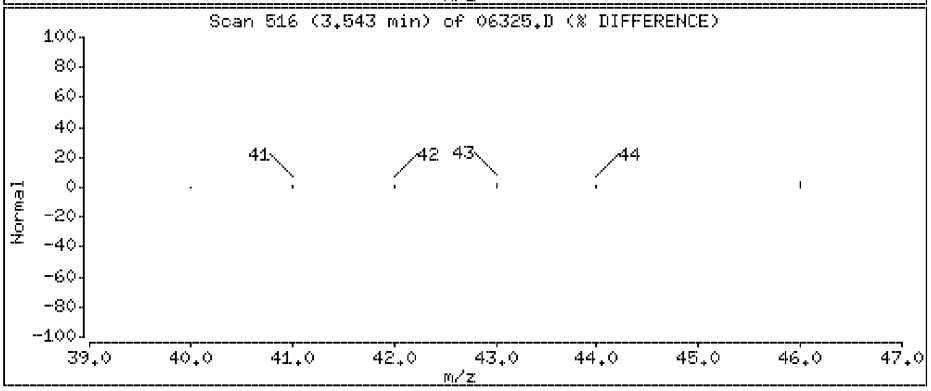
Concentration: 13.5 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

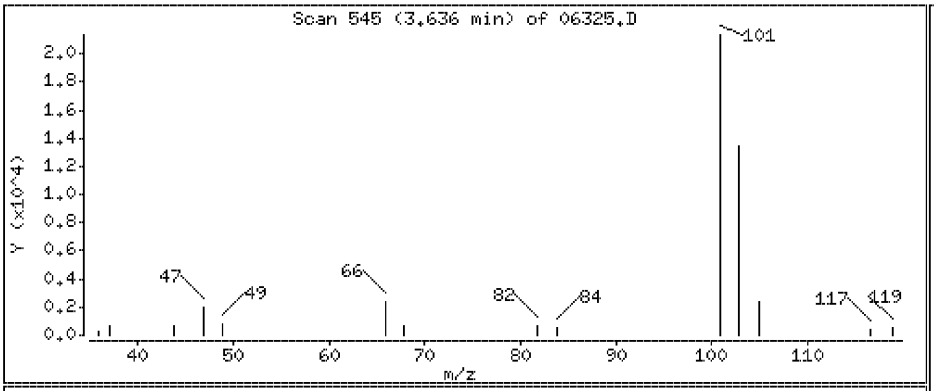
Operator: MJL

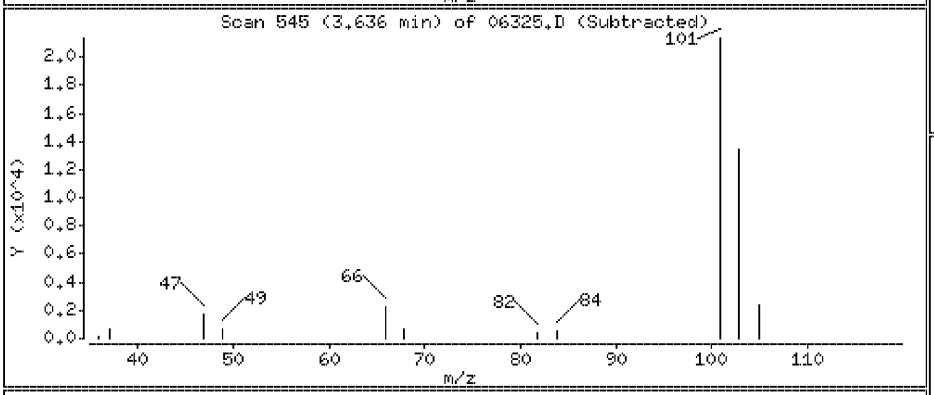
Column phase: J&W DB-5

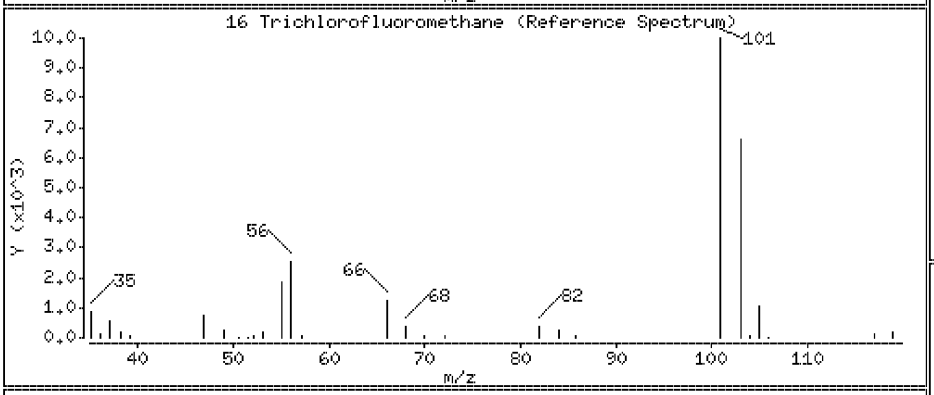
Column diameter: 0.32

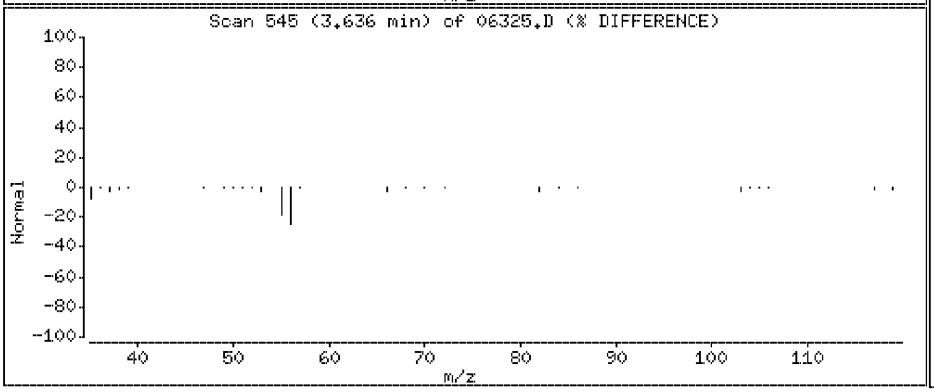
16 Trichlorofluoromethane

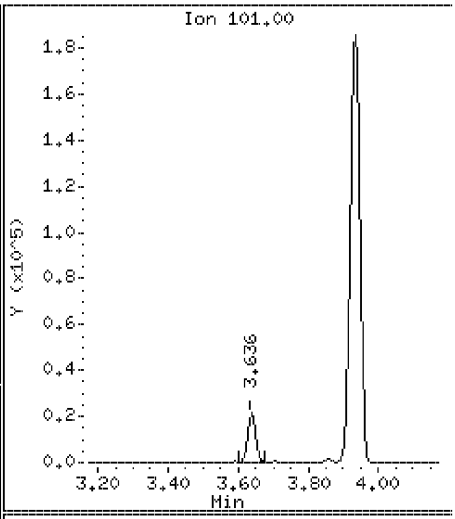
Concentration: 1.63 ppbv

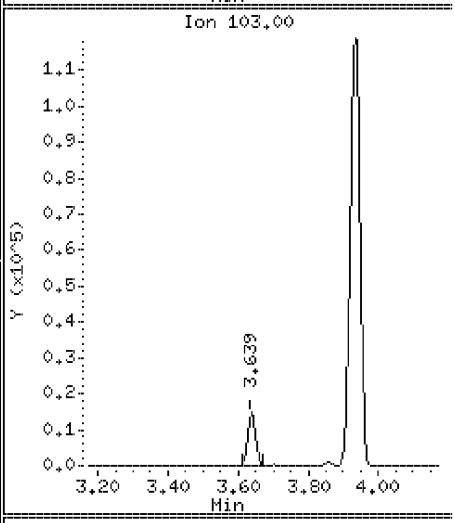


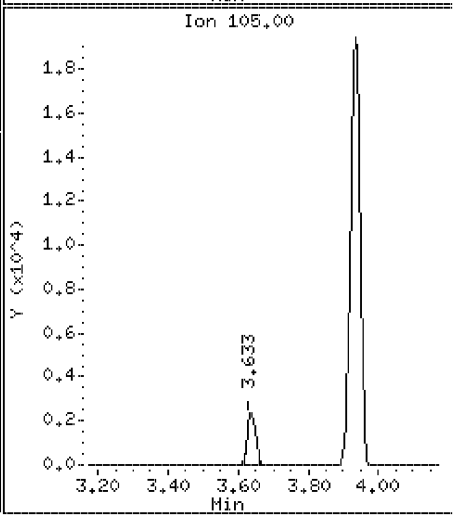












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

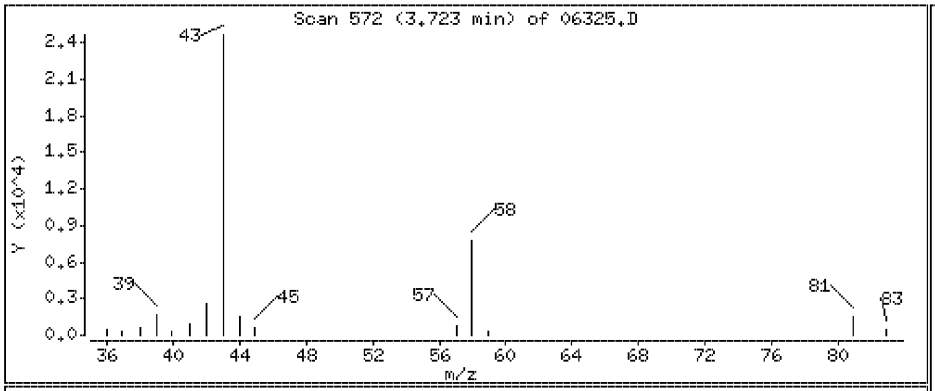
Operator: MJL

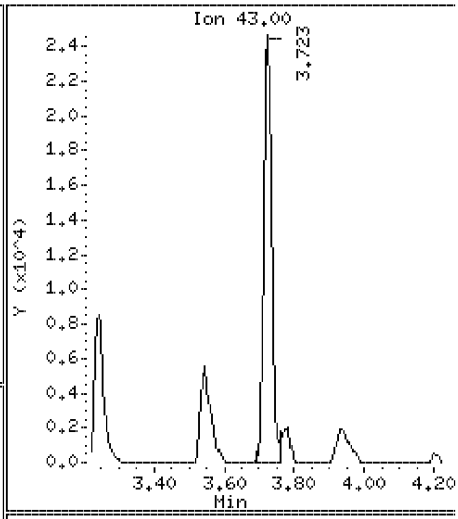
Column phase: J&W DB-5

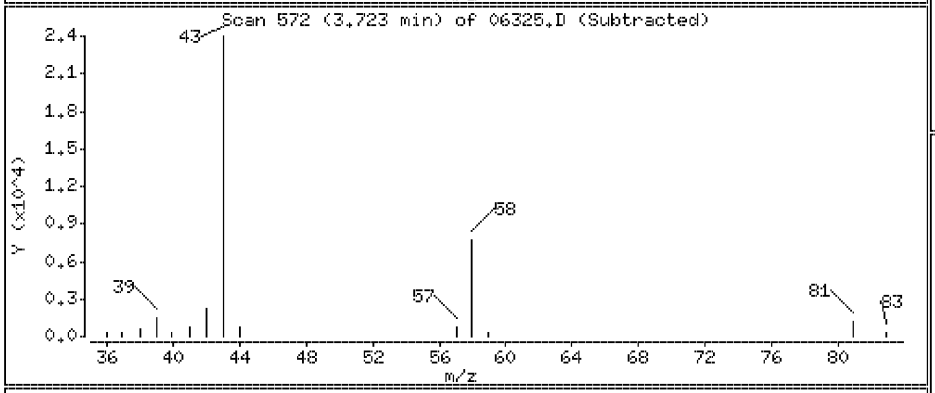
Column diameter: 0.32

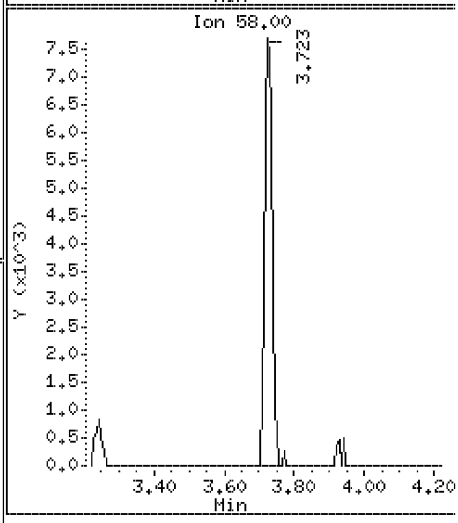
18 Acetone

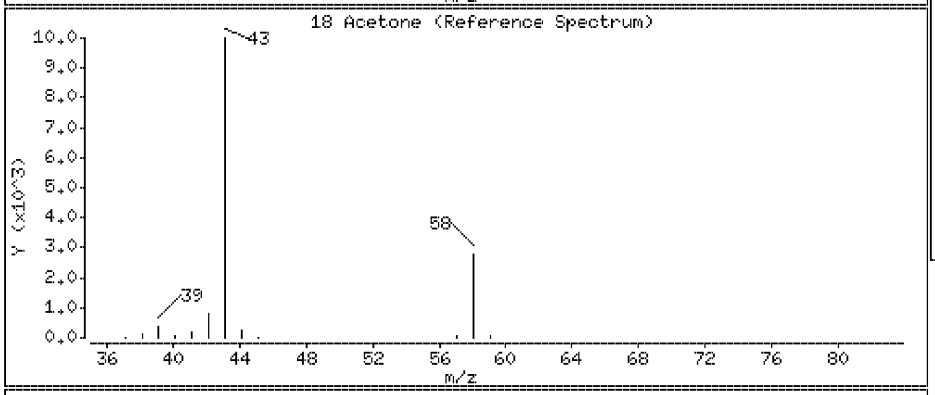
Concentration: 3.22 ppbv

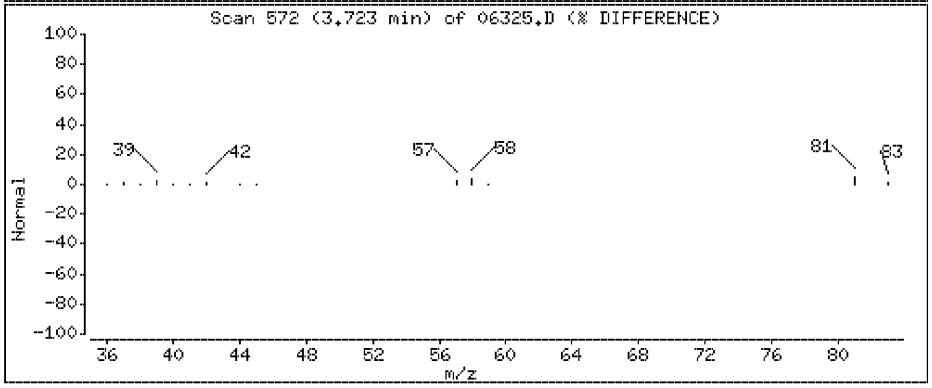












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

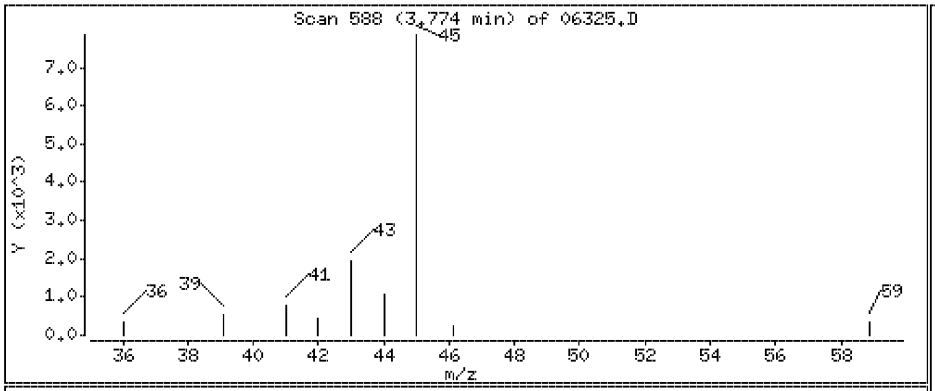
Operator: MJL

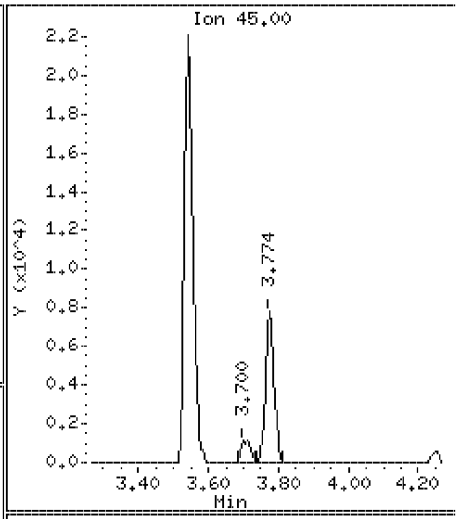
Column phase: J&W DB-5

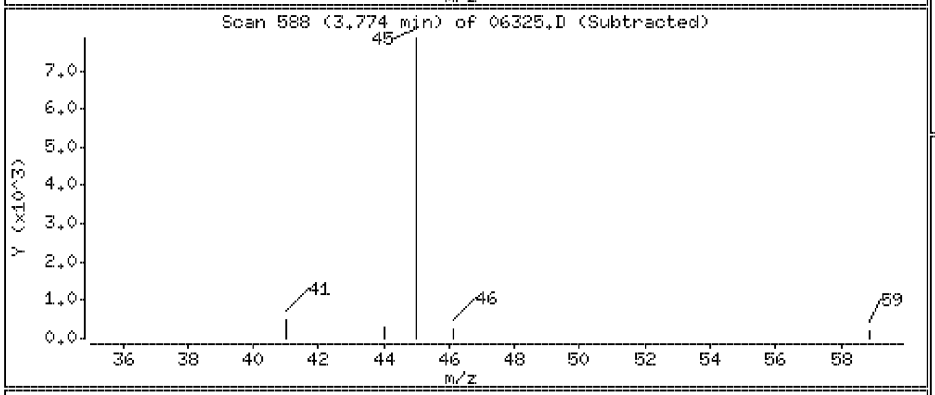
Column diameter: 0.32

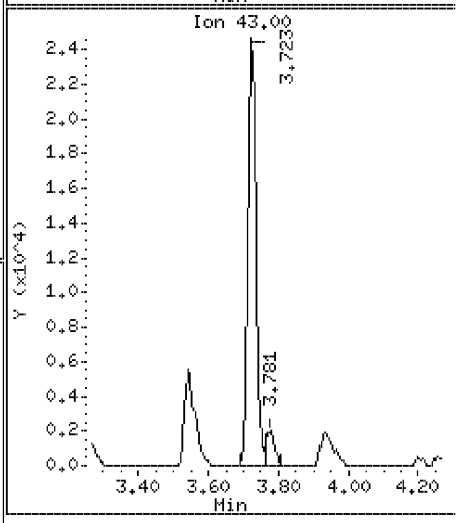
19 Isopropyl Alcohol

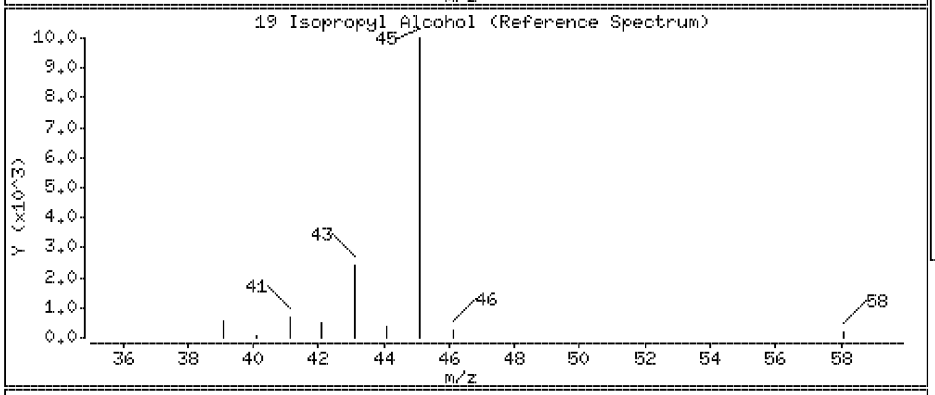
Concentration: 1.07 ppbv

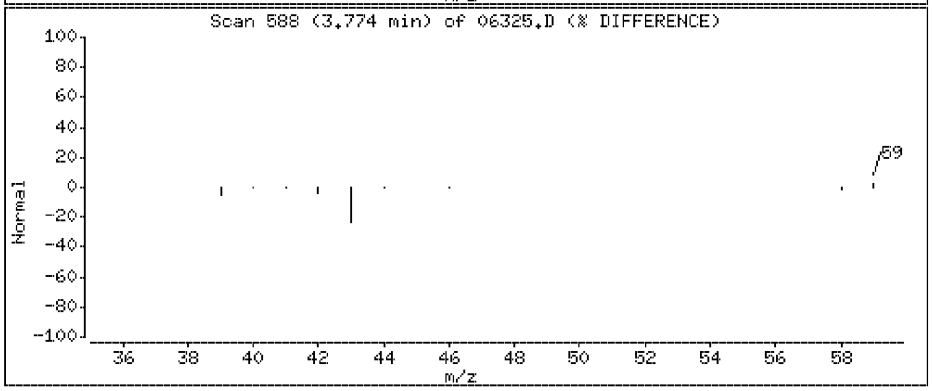












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

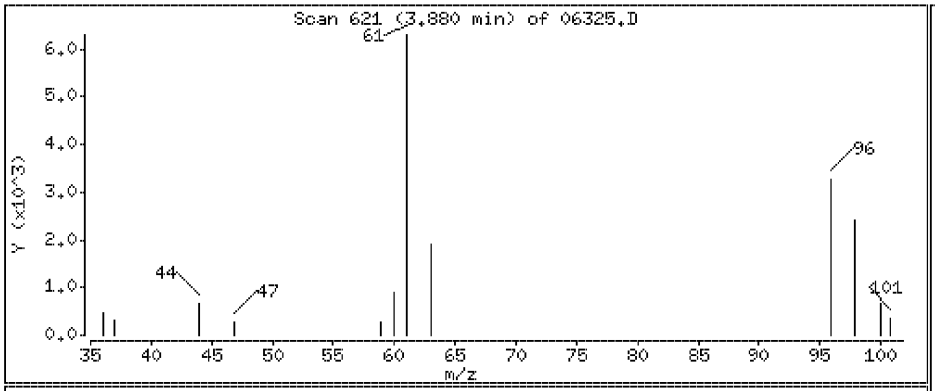
Operator: MJL

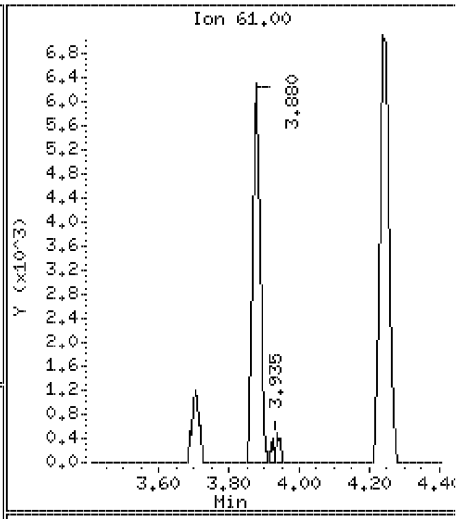
Column phase: J&W DB-5

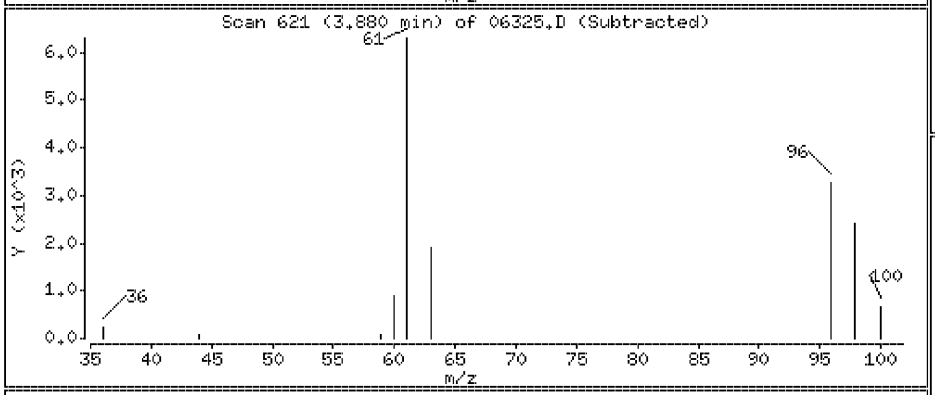
Column diameter: 0.32

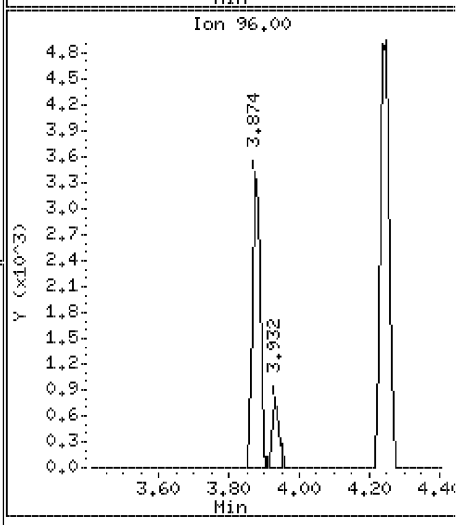
20 1,1-Dichloroethene

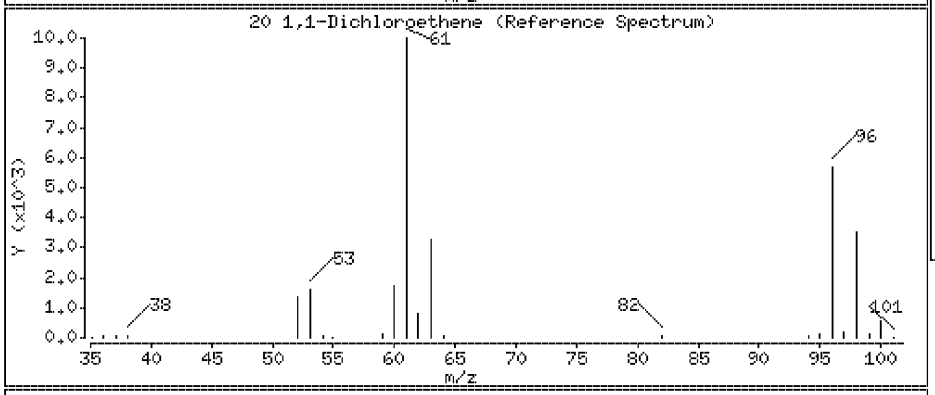
Concentration: 0.769 ppbv

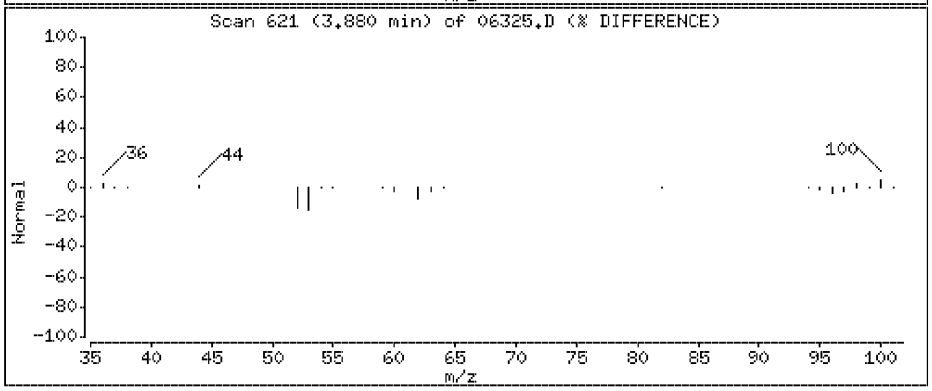












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

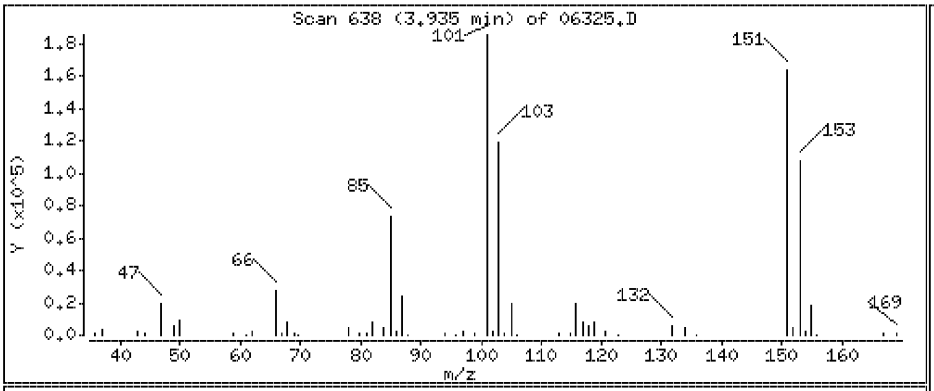
Operator: MJL

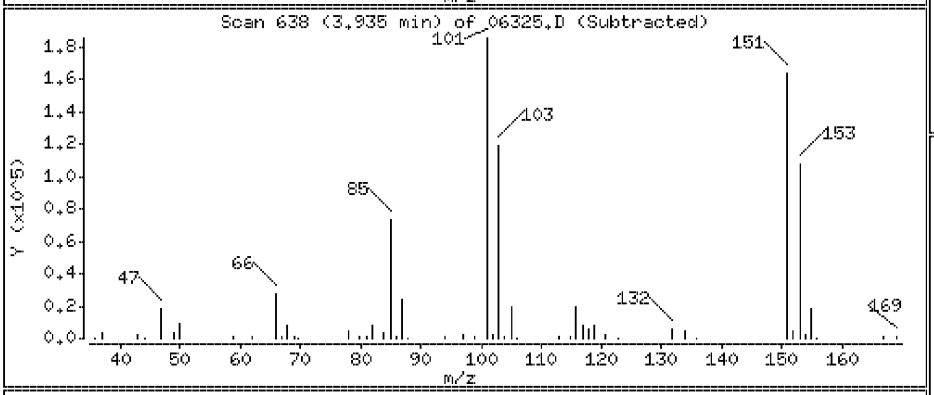
Column phase: J&W DB-5

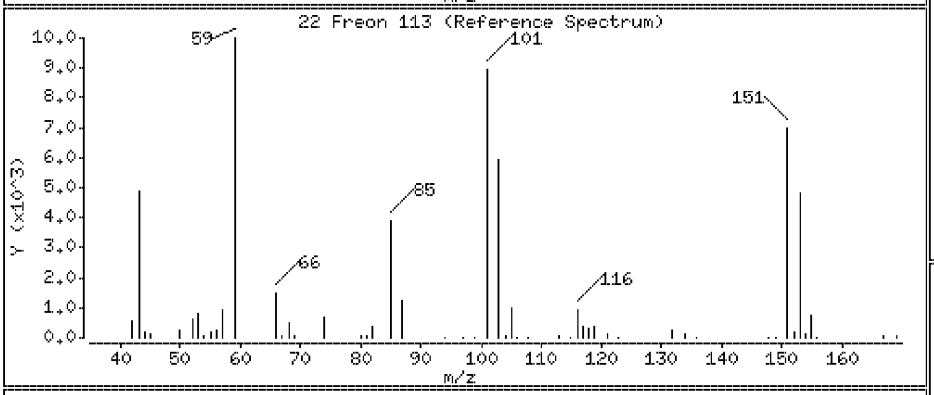
Column diameter: 0.32

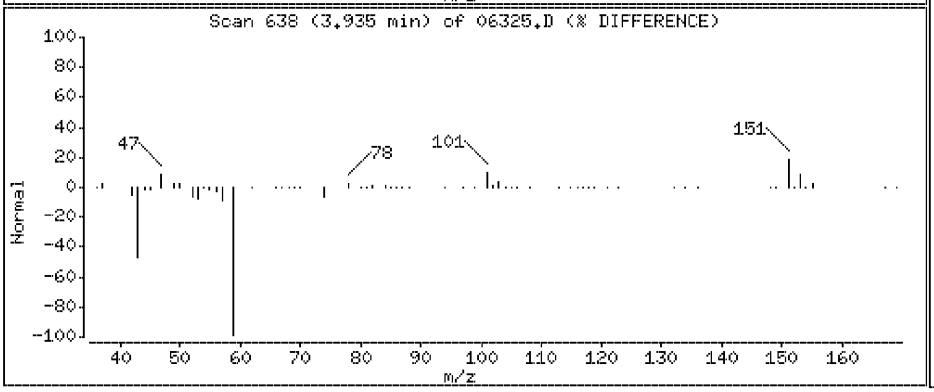
22 Freon 113

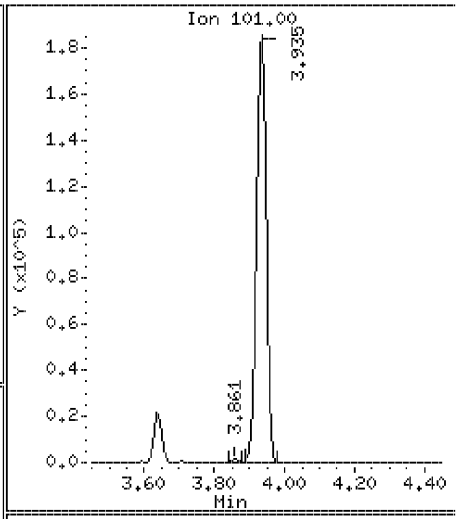
Concentration: 23.3 ppbv

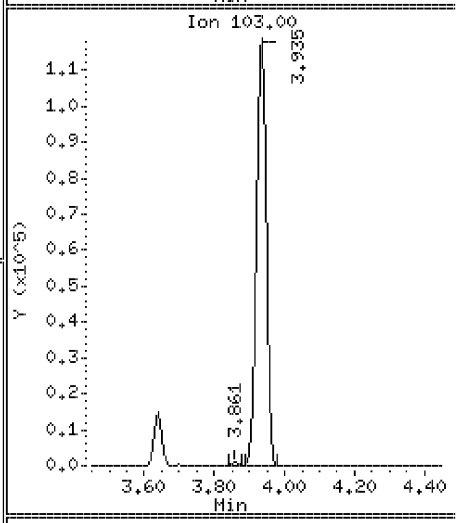


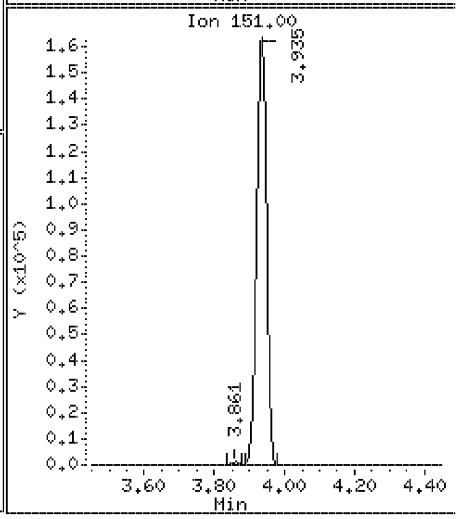












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

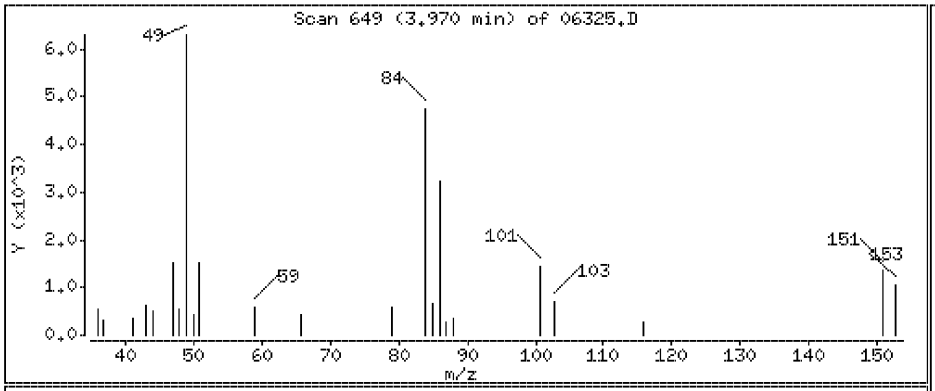
Operator: MJL

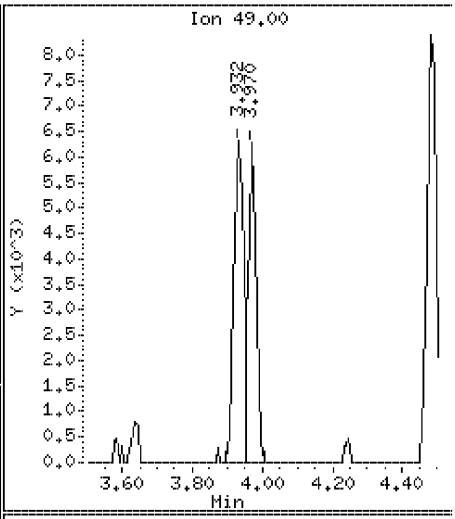
Column phase: J&W DB-5

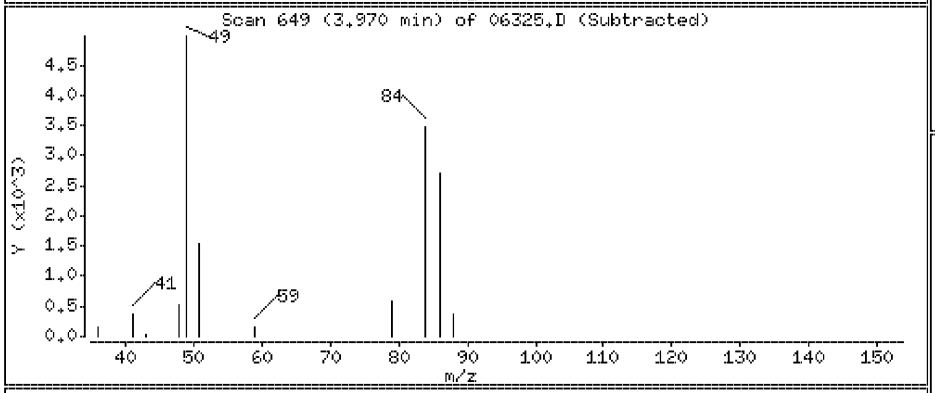
Column diameter: 0.32

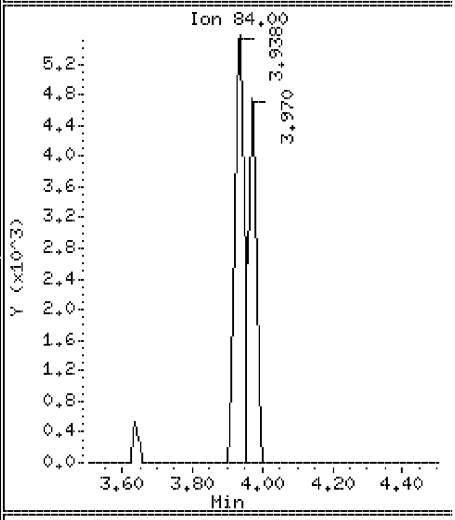
25 Methylene chloride

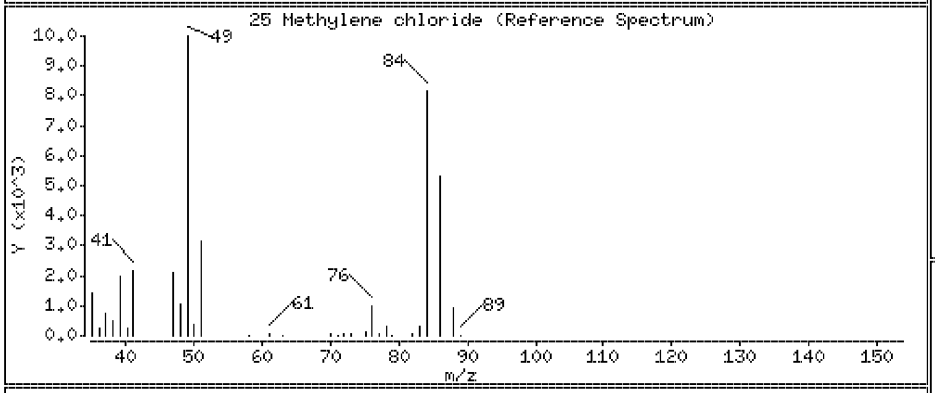
Concentration: 1.19 ppbv

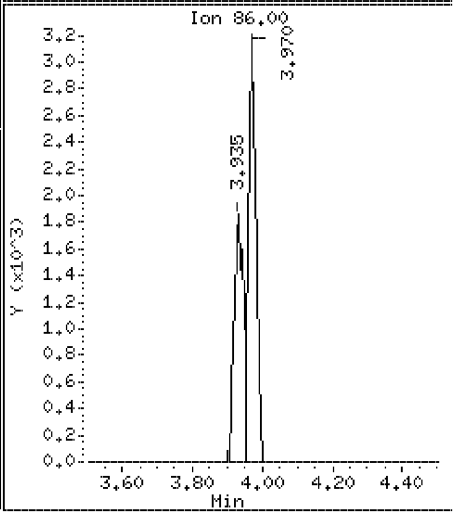


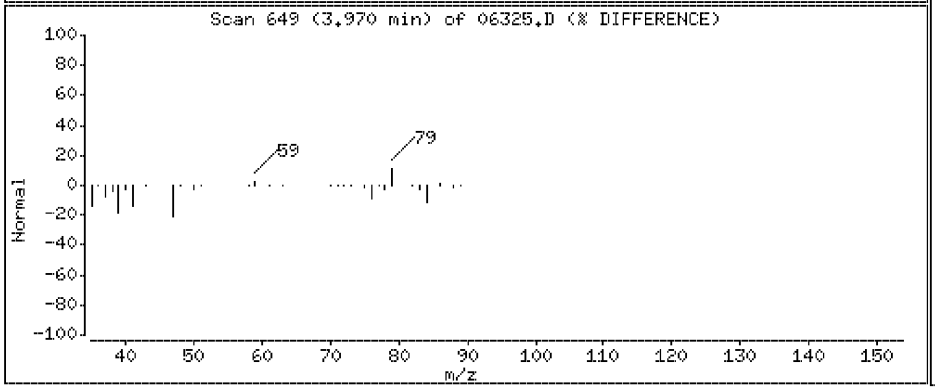












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

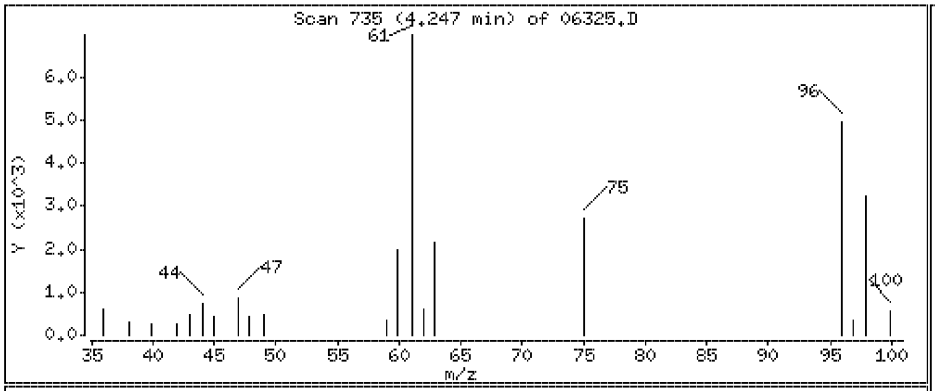
Operator: MJL

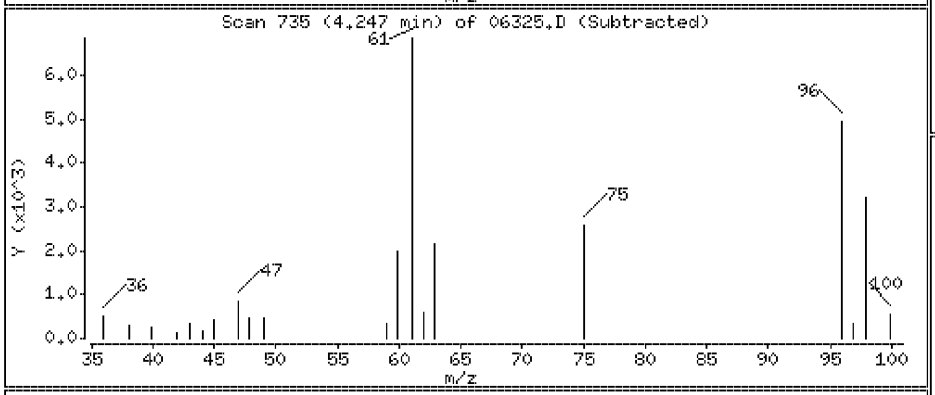
Column phase: J&W DB-5

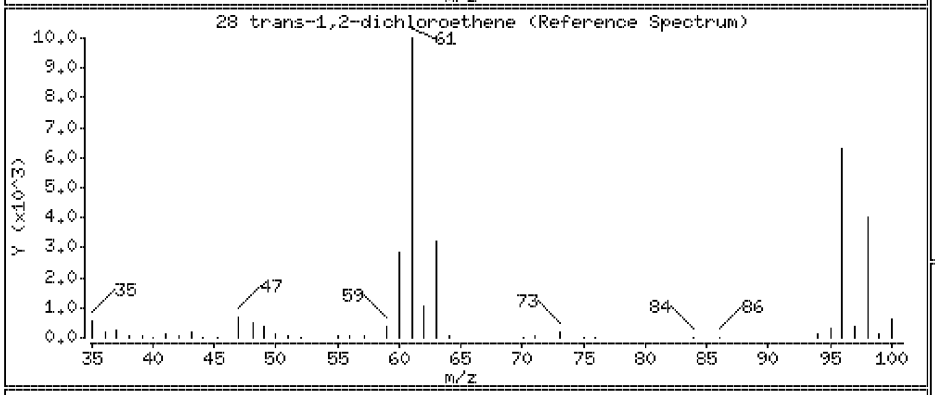
Column diameter: 0.32

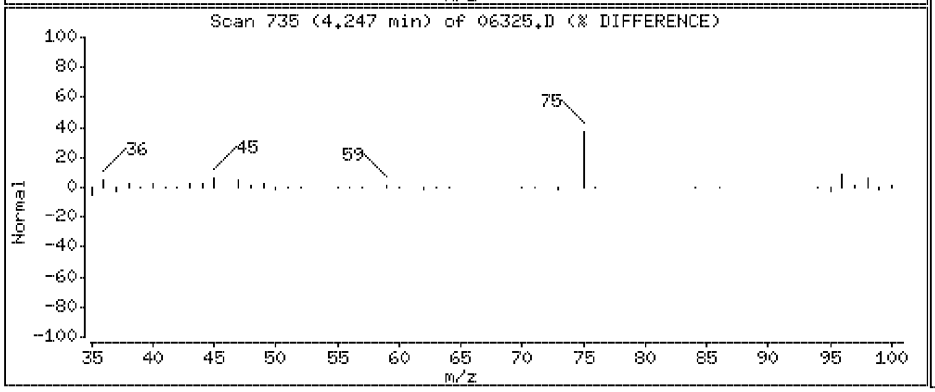
28 trans-1,2-dichloroethene

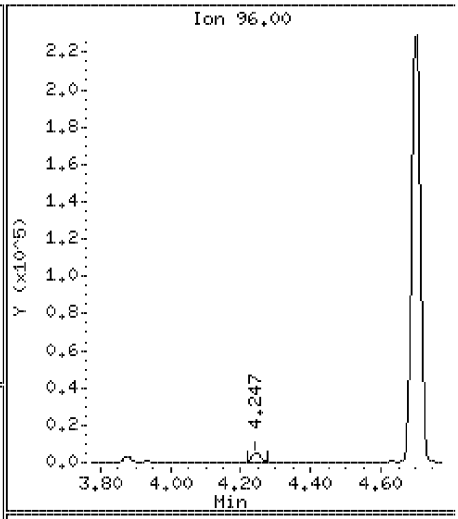
Concentration: 1.30 ppbv

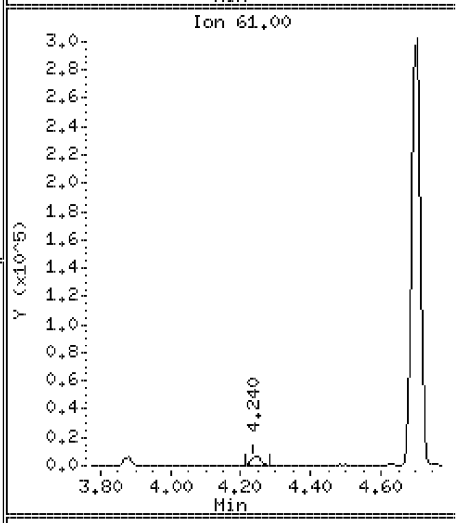


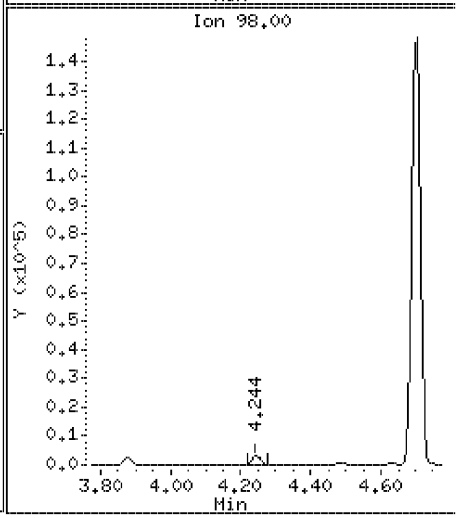












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

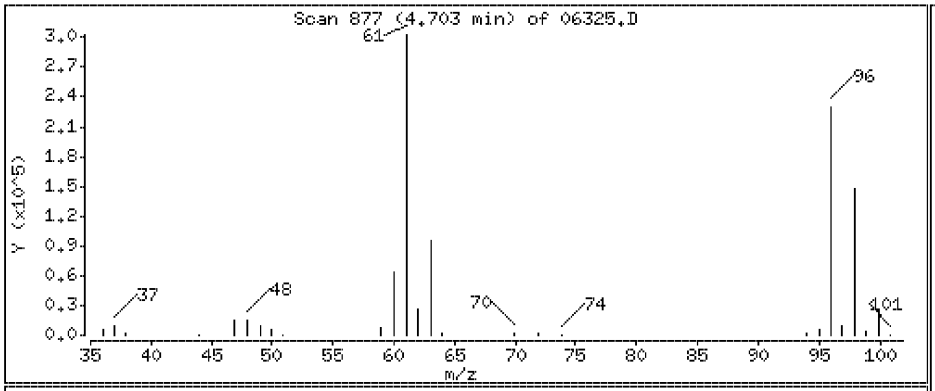
Operator: MJL

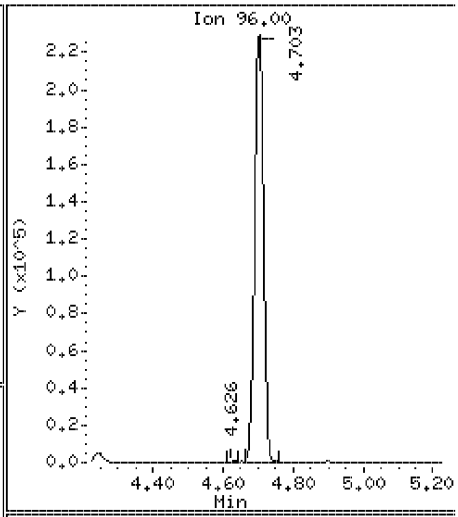
Column phase: J&W DB-5

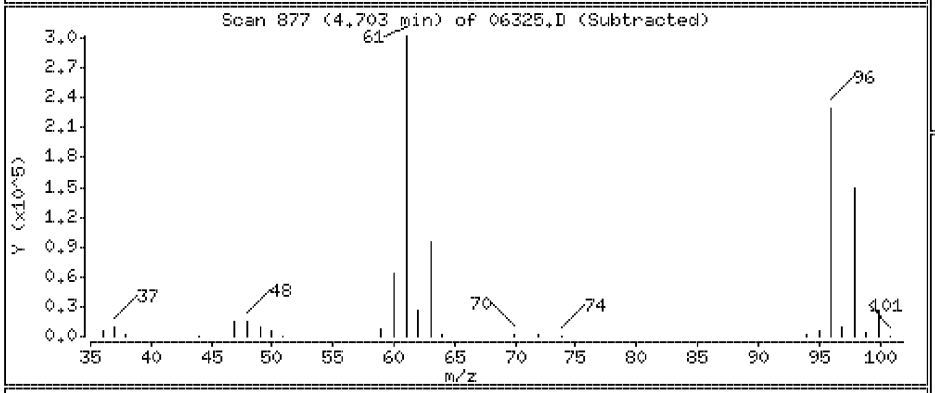
Column diameter: 0.32

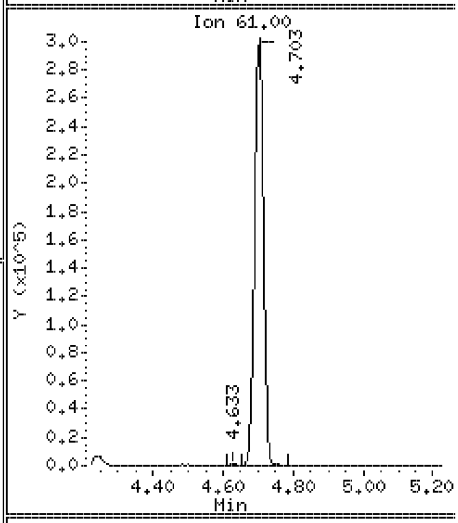
37 cis-1,2-Dichloroethene

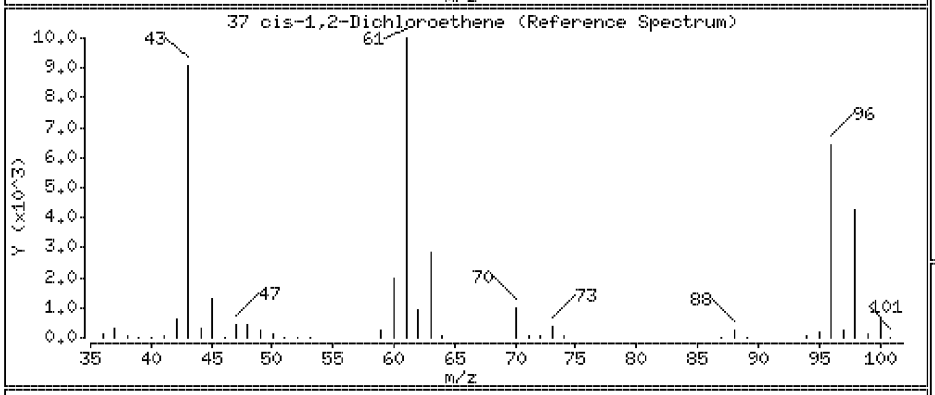
Concentration: 53.8 ppbv

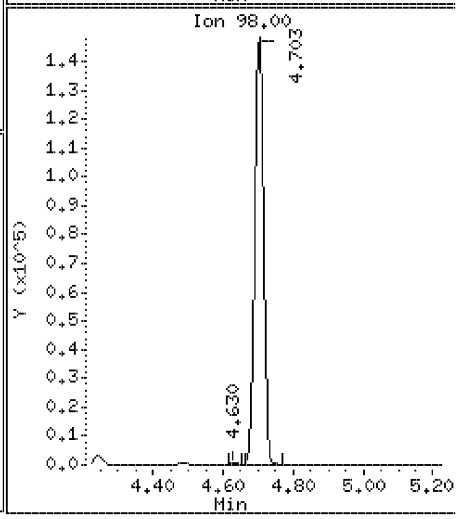


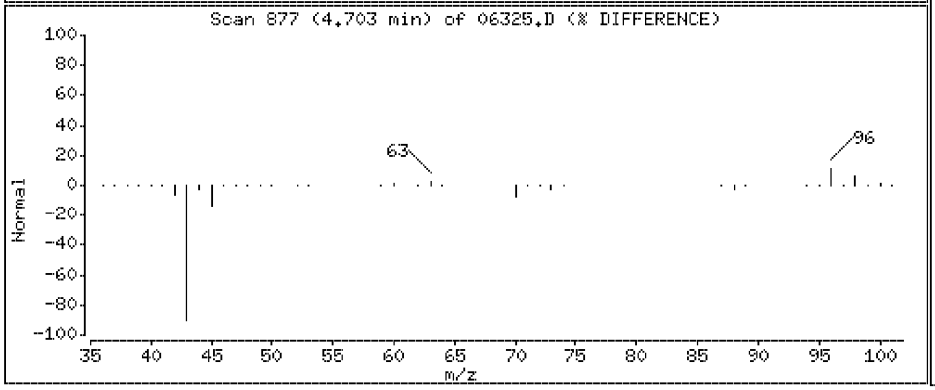












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

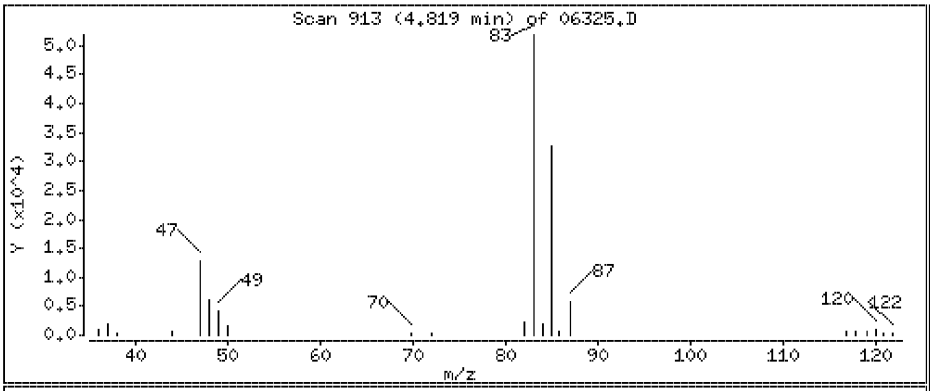
Operator: MJL

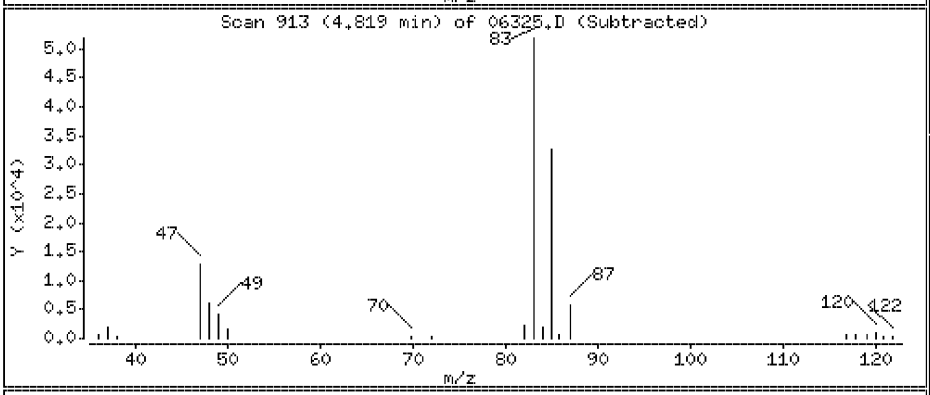
Column phase: J&W DB-5

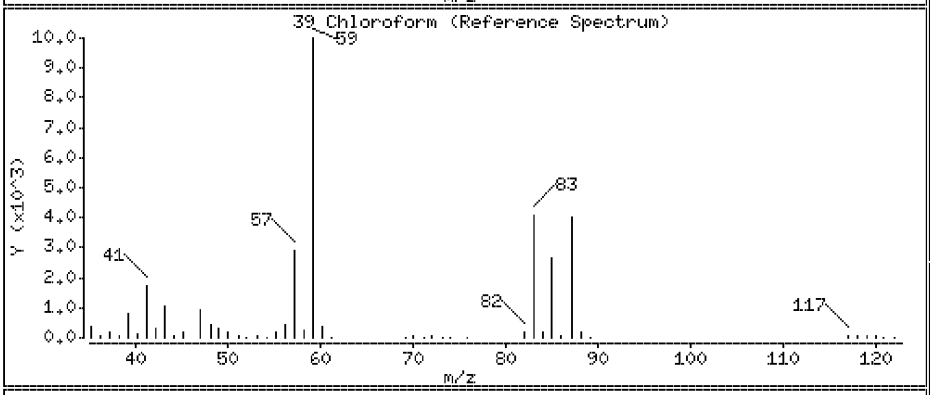
Column diameter: 0.32

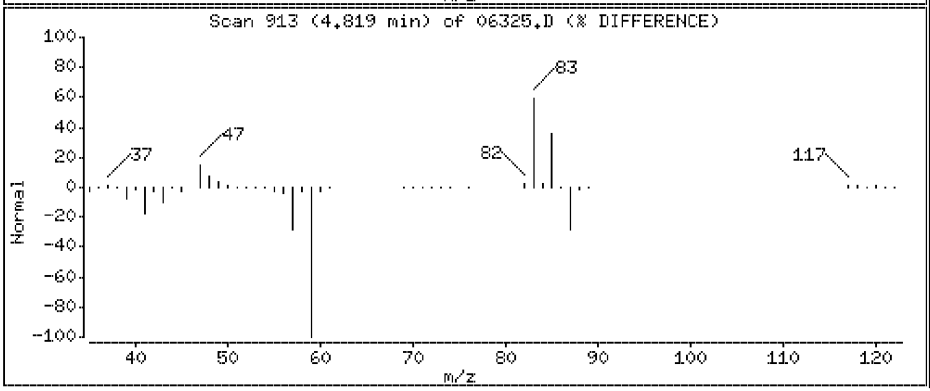
39 Chloroform

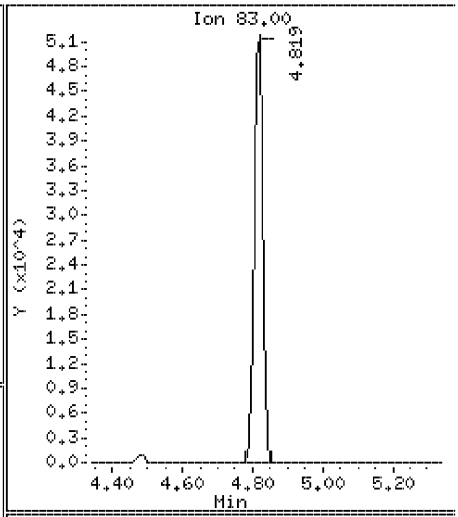
Concentration: 5.59 ppbv

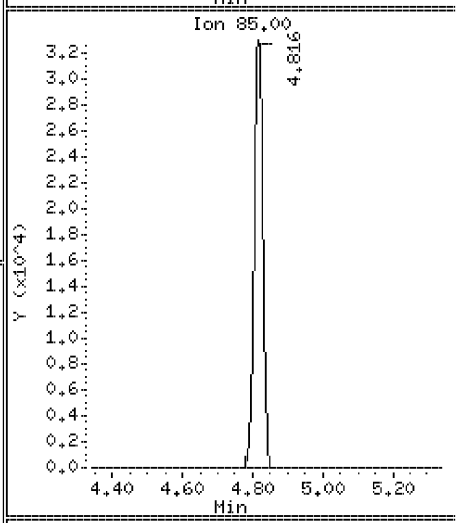


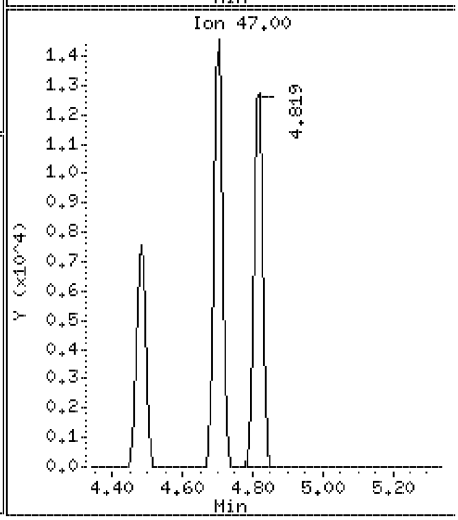












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

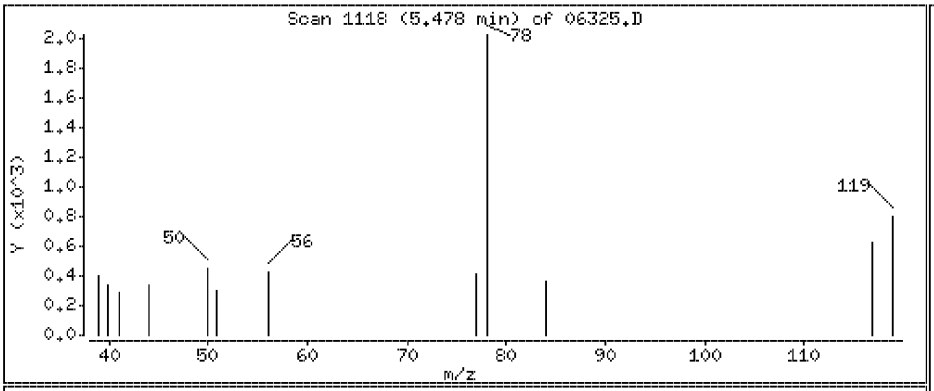
Operator: MJL

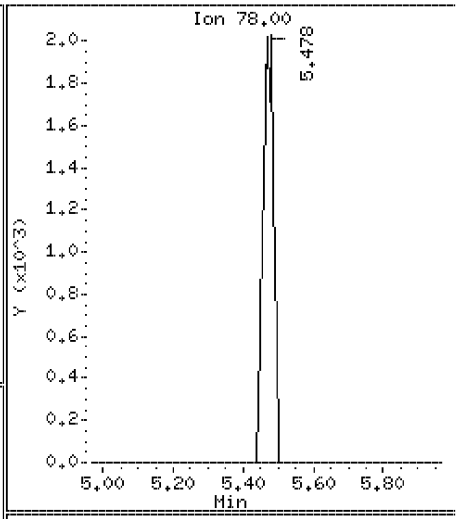
Column phase: J&W DB-5

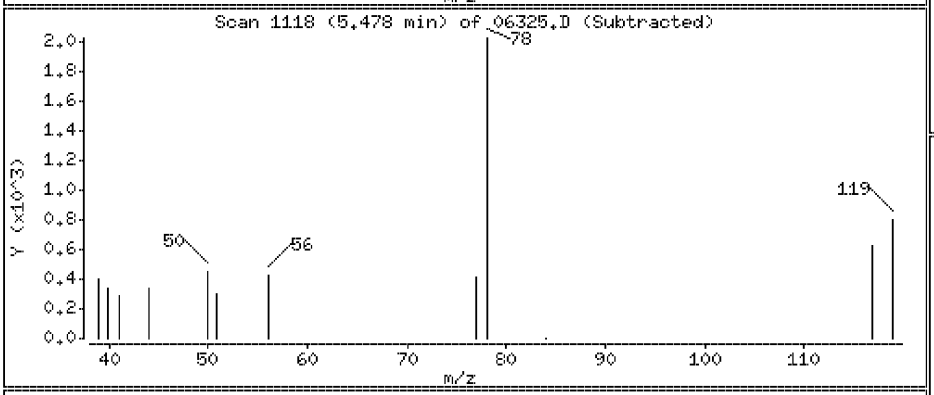
Column diameter: 0.32

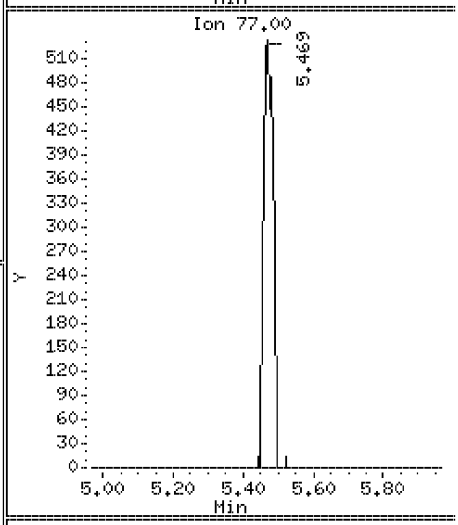
43 Benzene

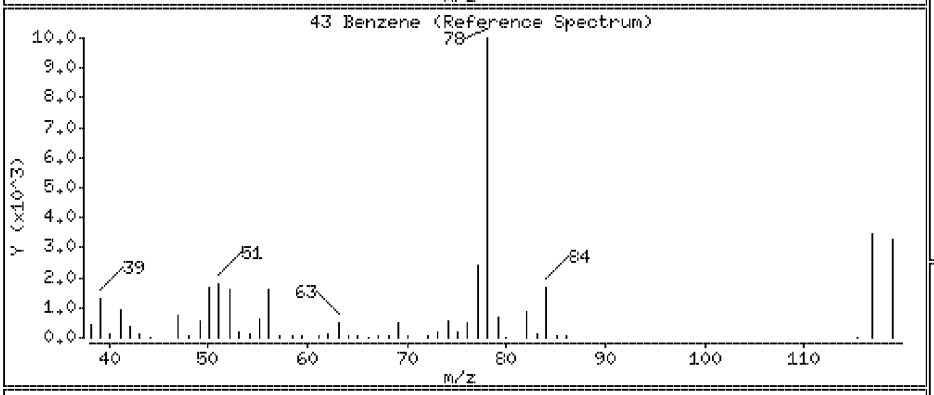
Concentration: 0.178 ppbv

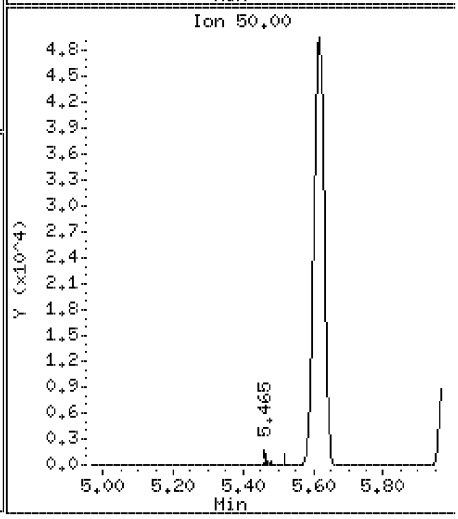


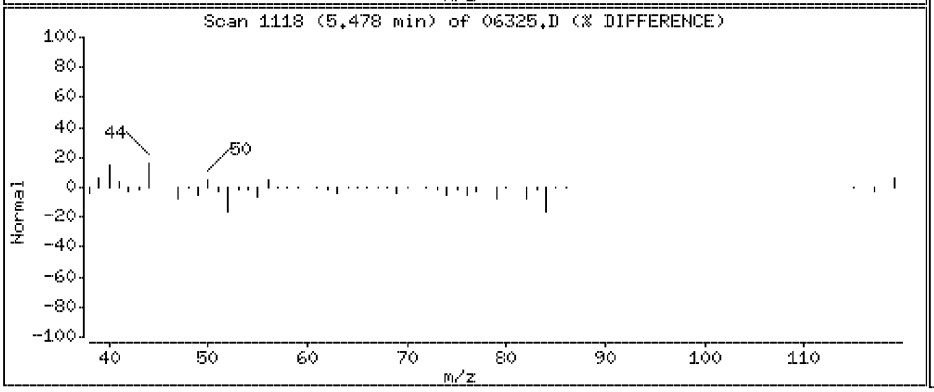












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

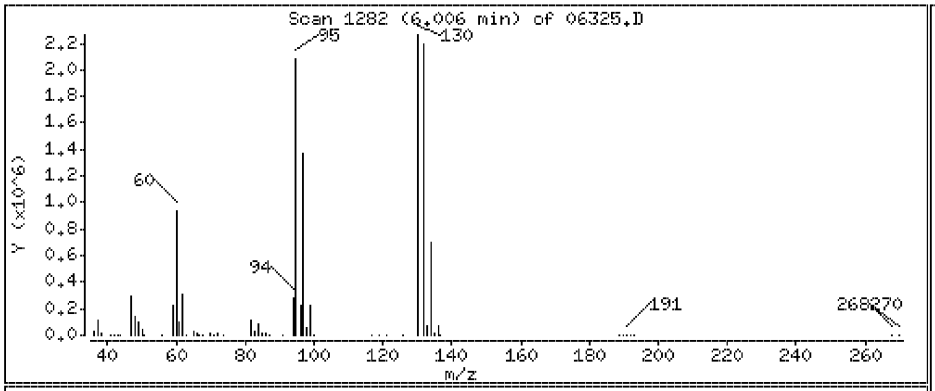
Operator: MJL

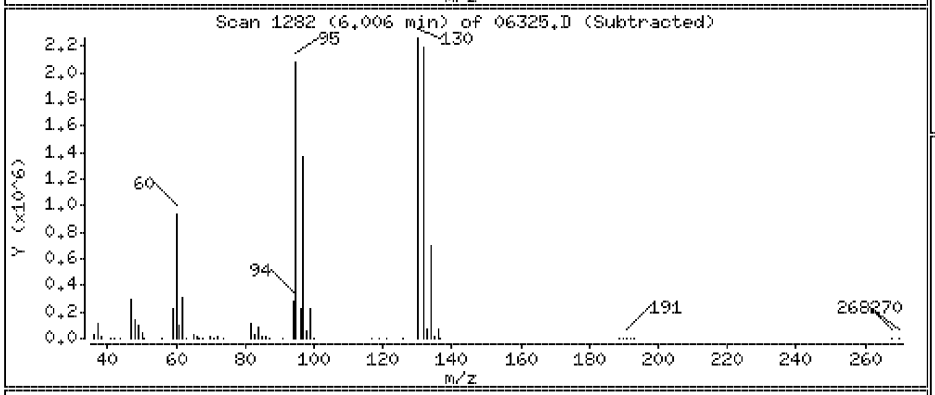
Column phase: J&W DB-5

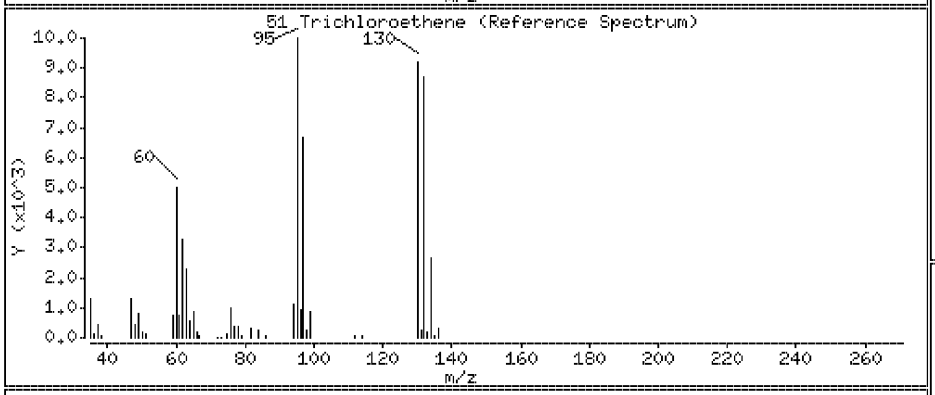
Column diameter: 0.32

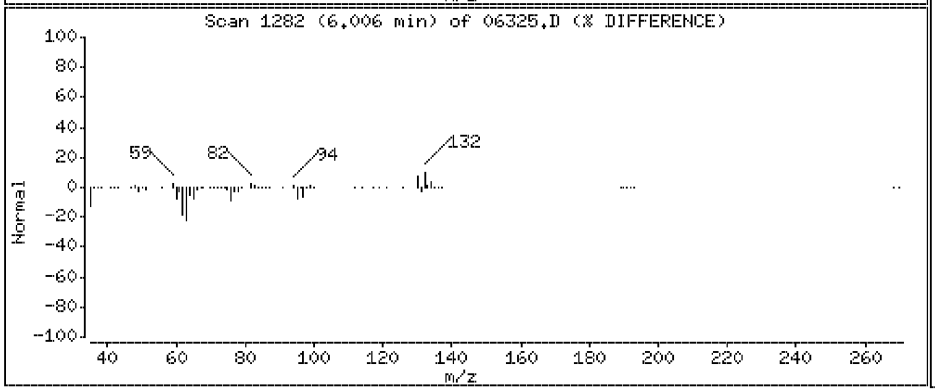
51 Trichloroethene

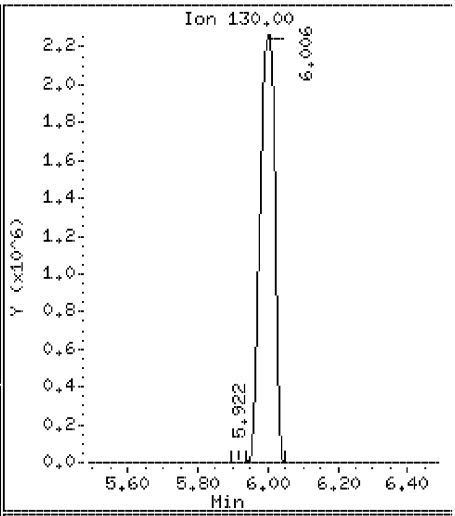
Concentration: 543 ppbv

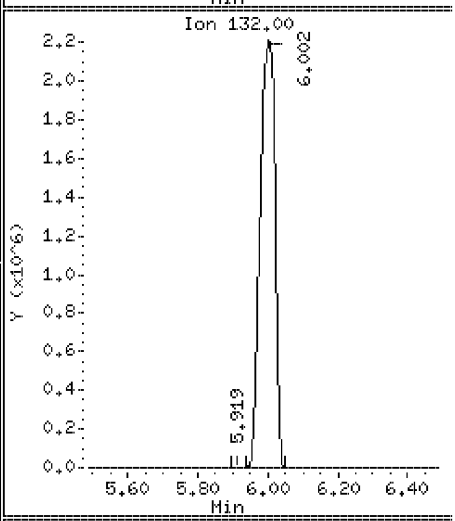


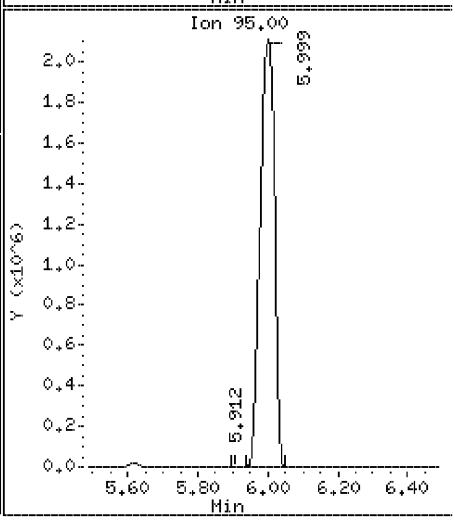












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

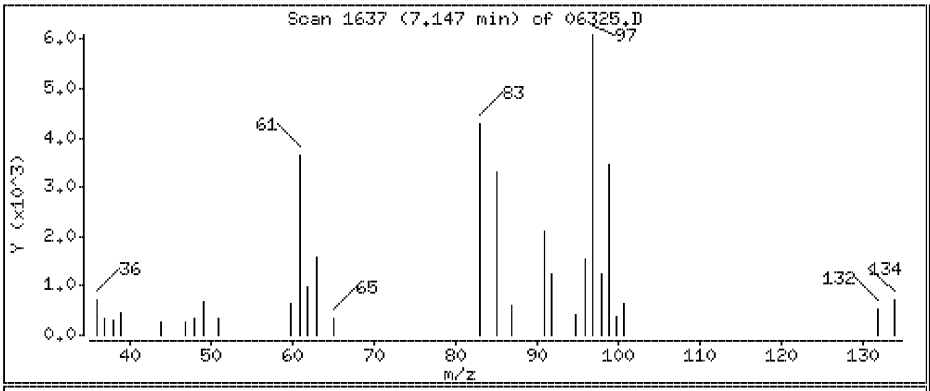
Operator: MJL

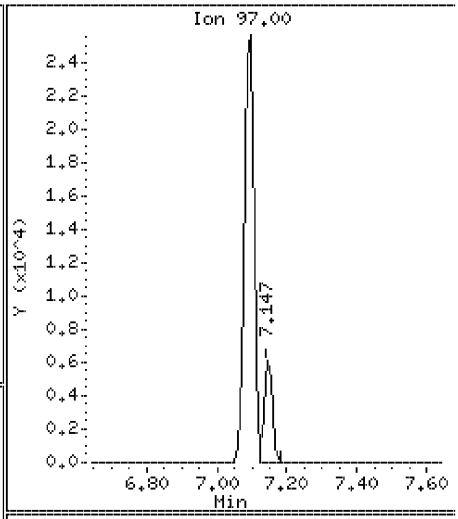
Column phase: J&W DB-5

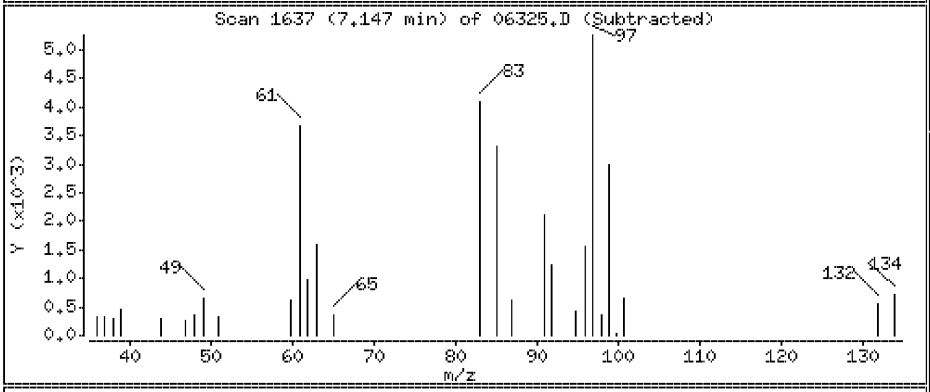
Column diameter: 0.32

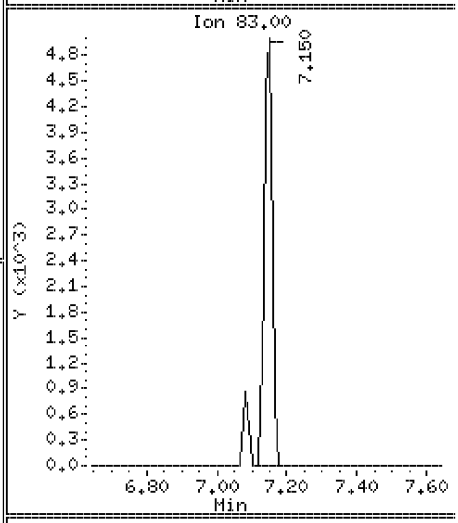
60 1,1,2-Trichloroethane

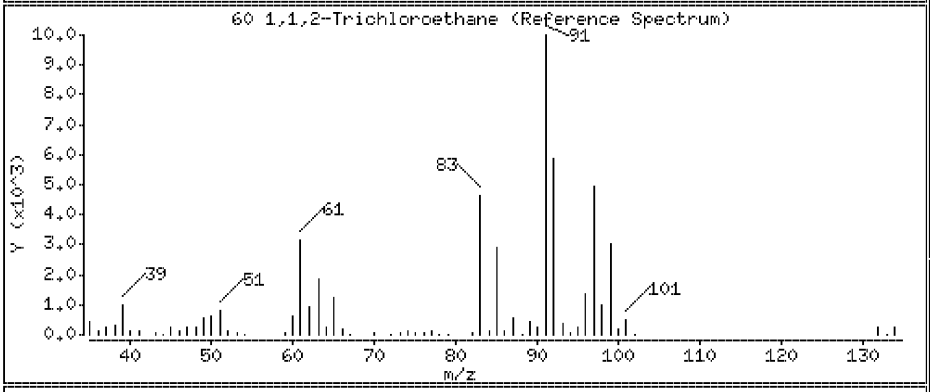
Concentration: 0.987 ppbv

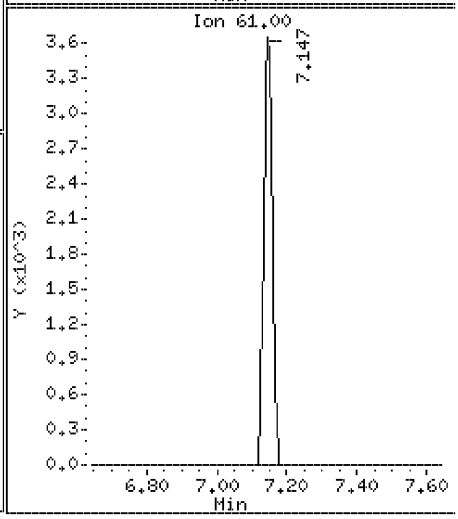


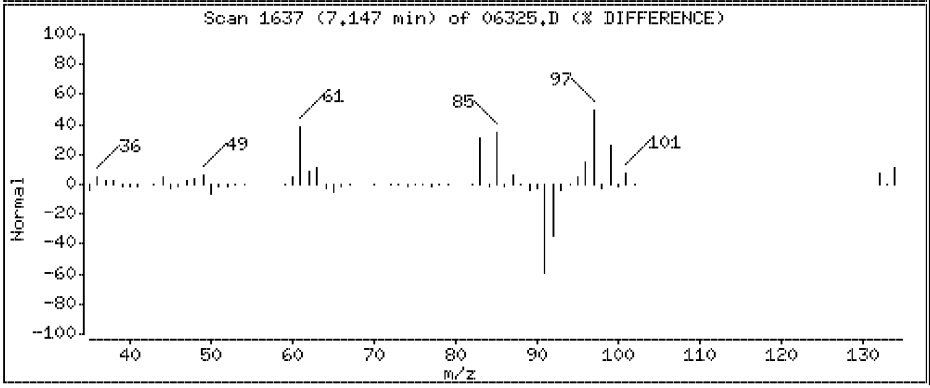












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

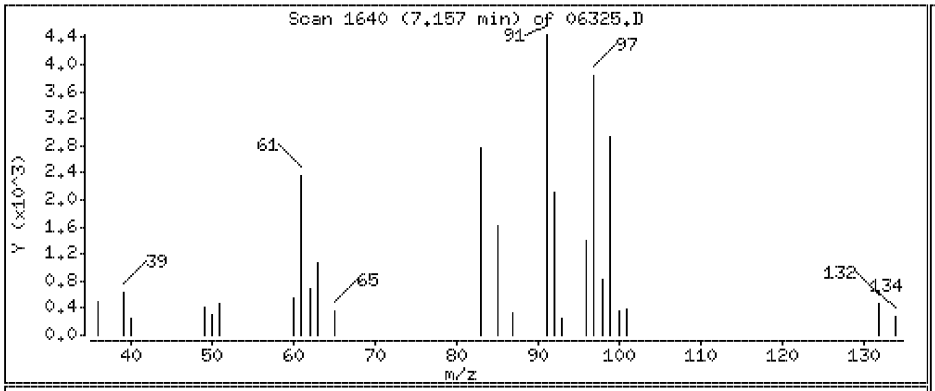
Operator: MJL

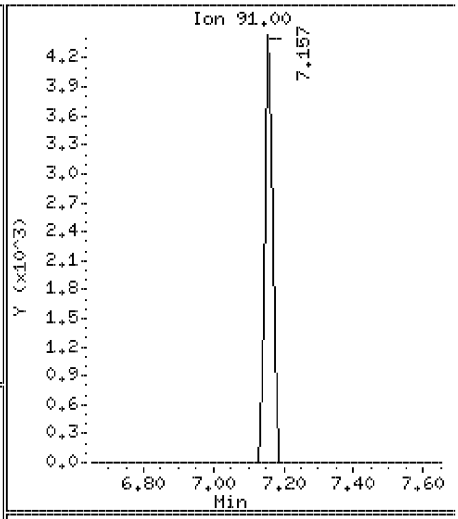
Column phase: J&W DB-5

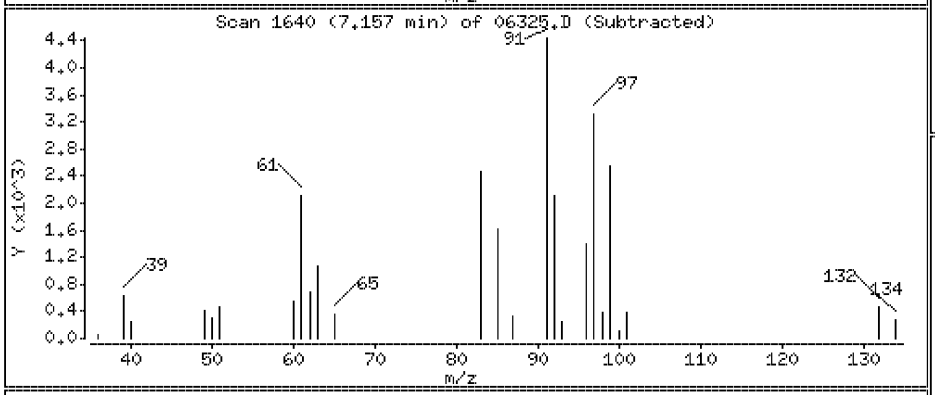
Column diameter: 0.32

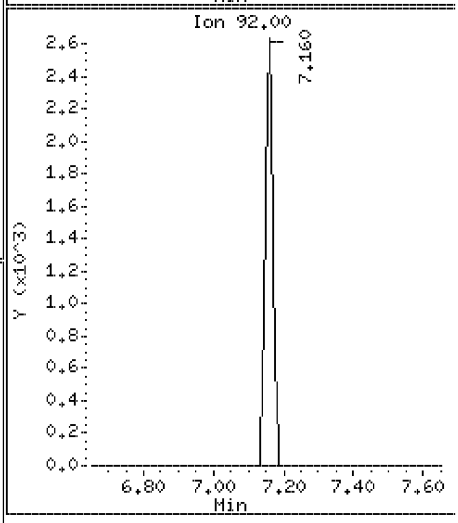
61 Toluene

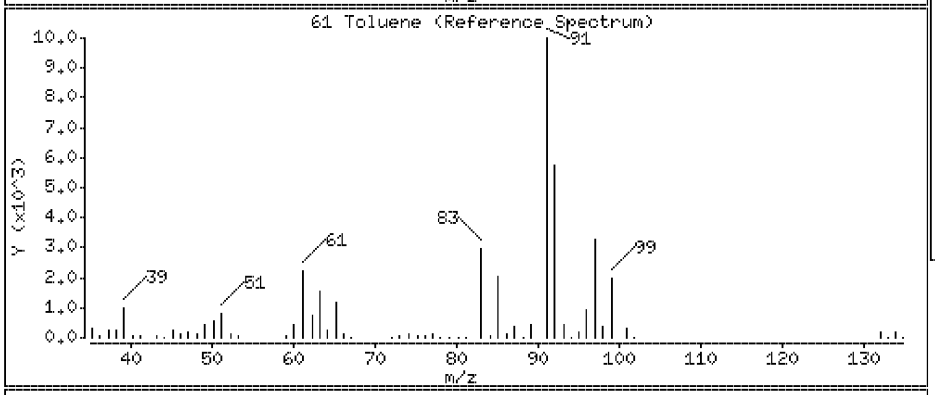
Concentration: 0.225 ppbv

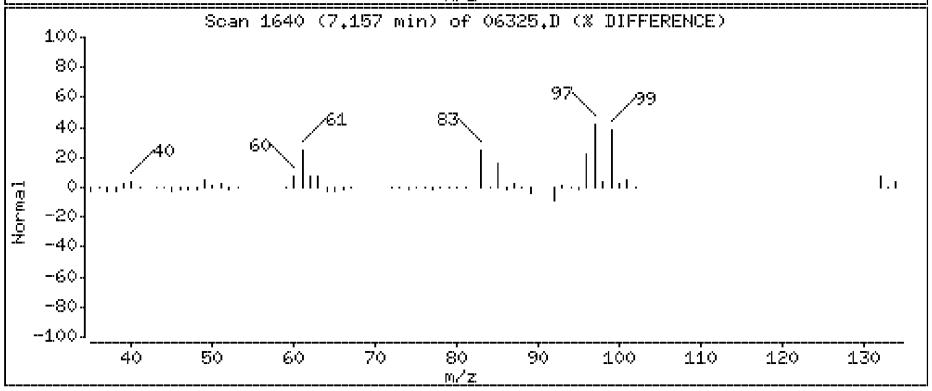












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

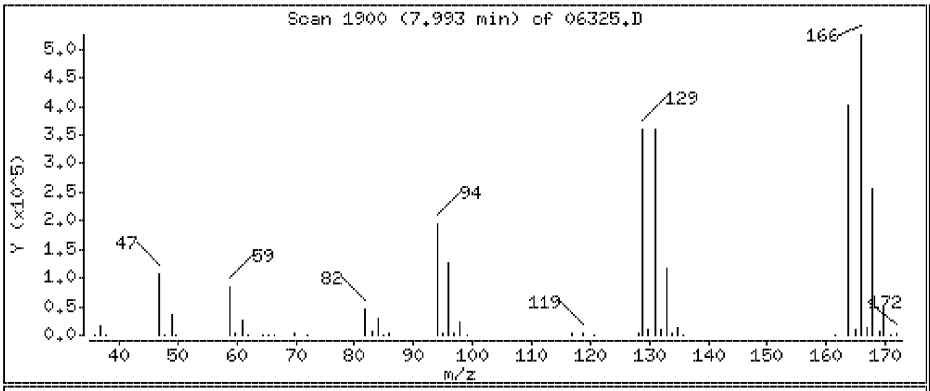
Operator: MJL

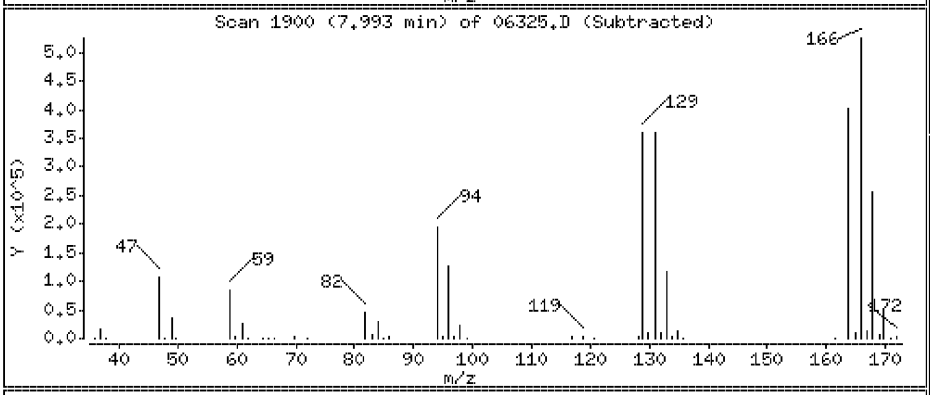
Column phase: J&W DB-5

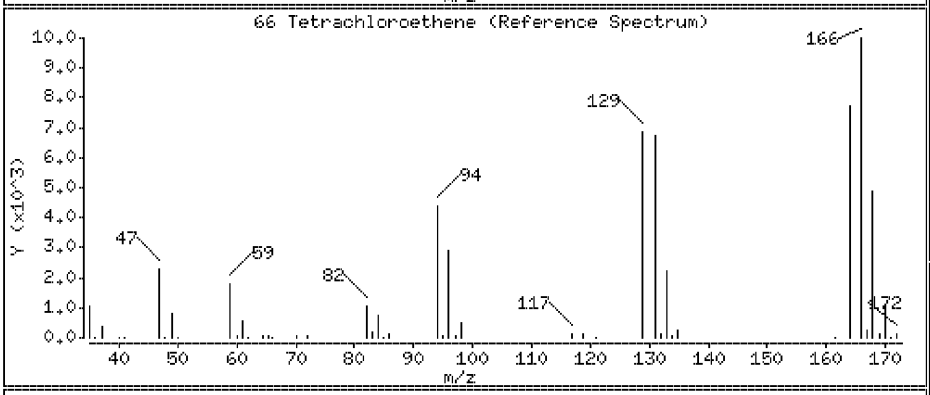
Column diameter: 0.32

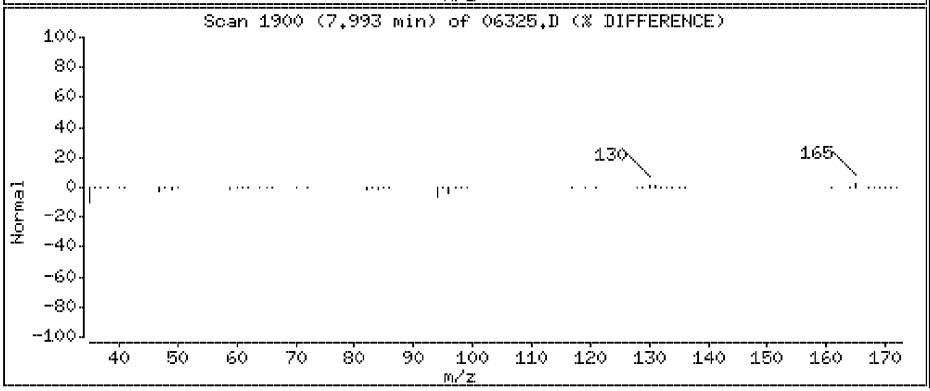
66 Tetrachloroethene

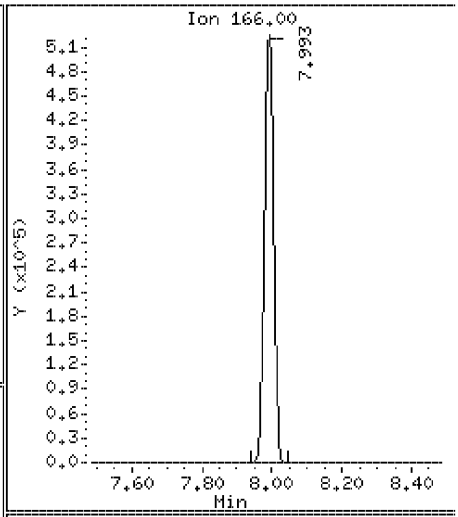
Concentration: 56.5 ppbv

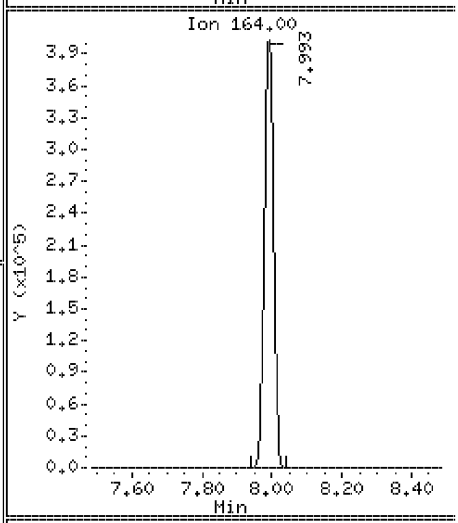


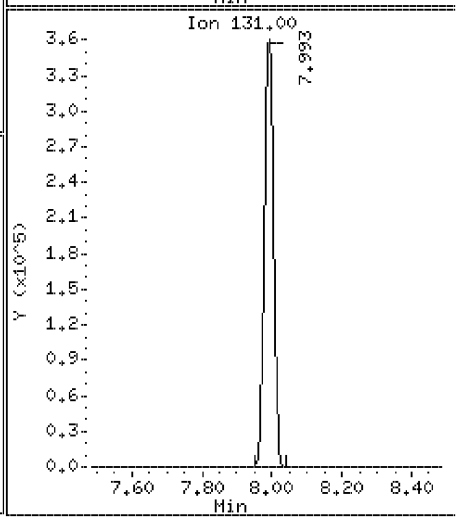












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

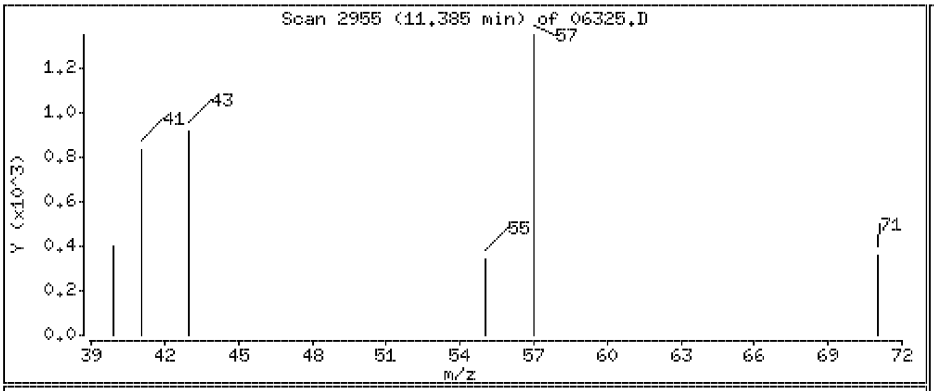
Operator: MJL

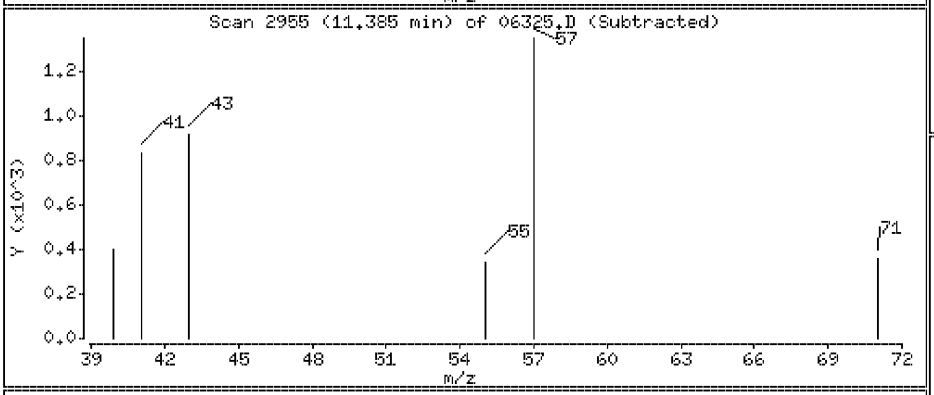
Column phase: J&W DB-5

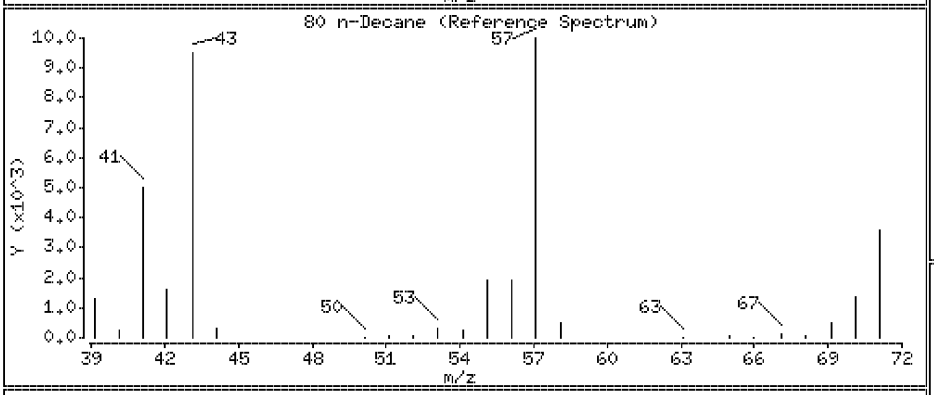
Column diameter: 0.32

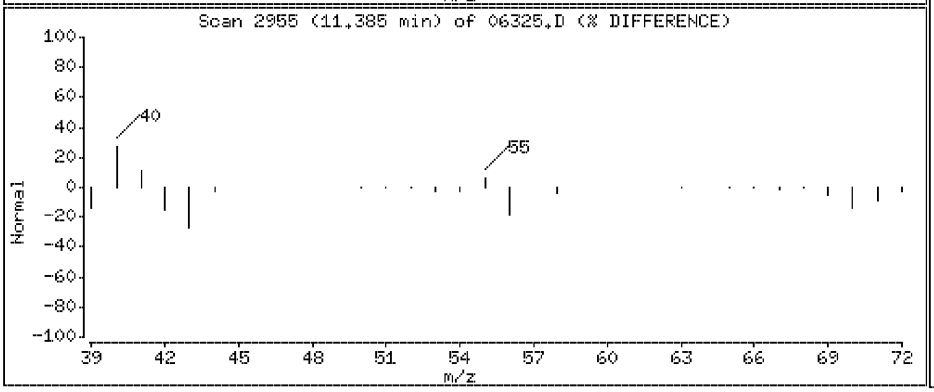
80 n-Decane

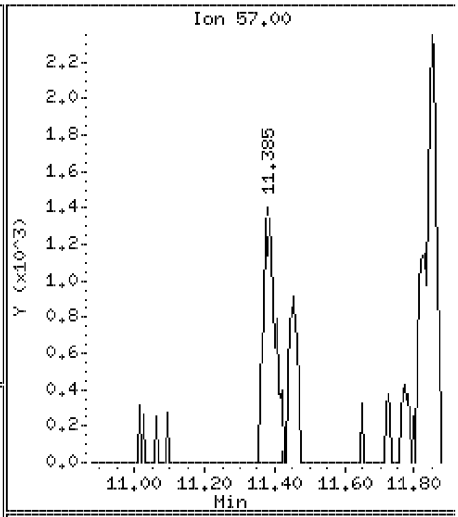
Concentration: 0.592 ppbv

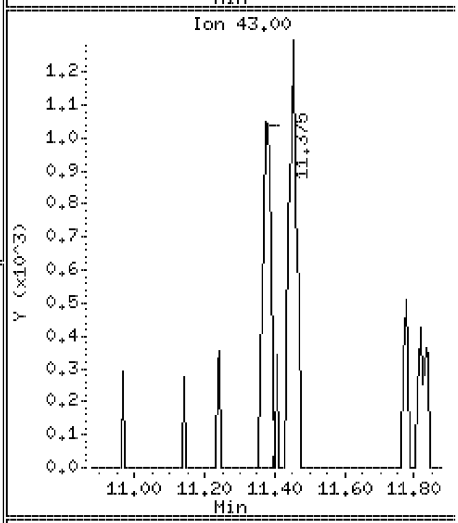


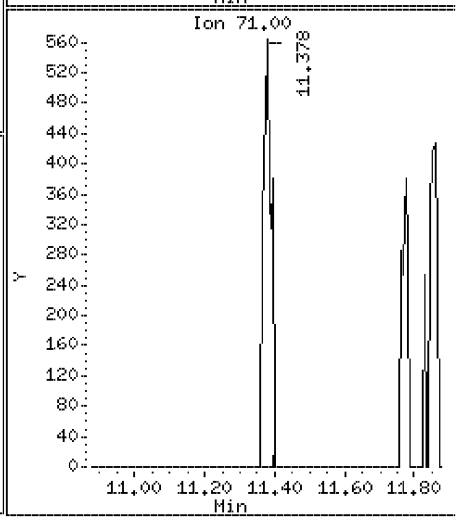












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06325.D

Date : 04-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

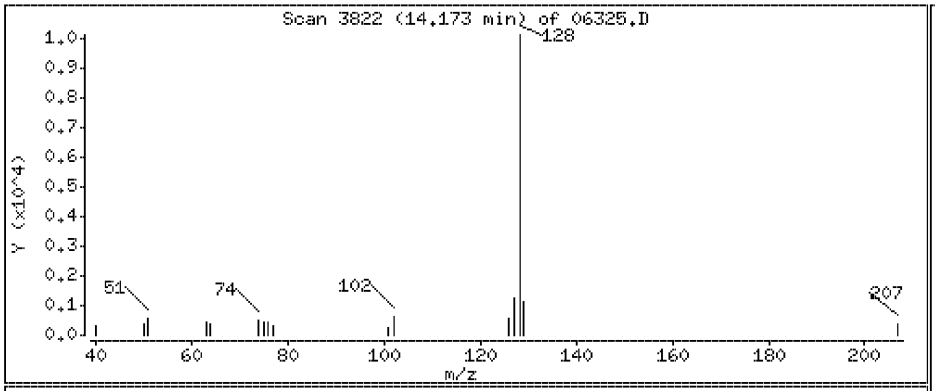
Operator: MJL

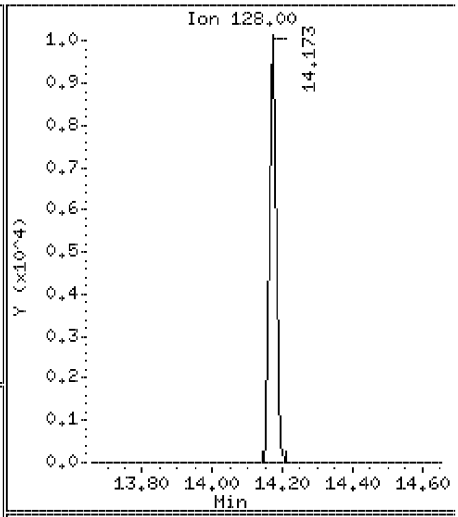
Column phase: J&W DB-5

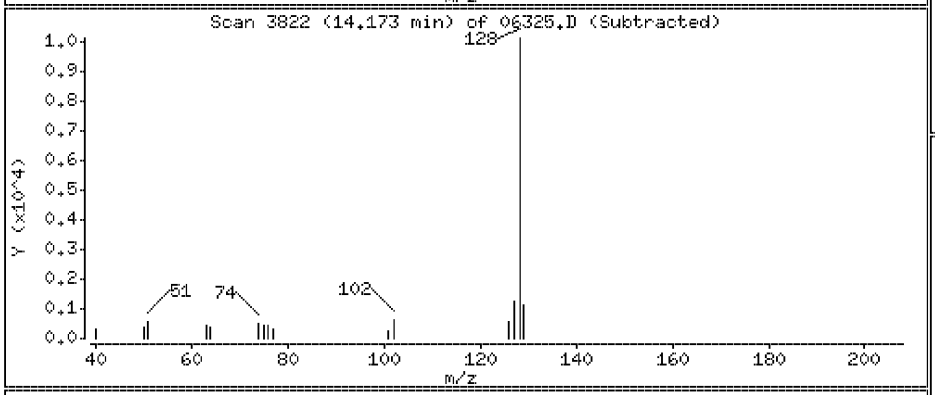
Column diameter: 0.32

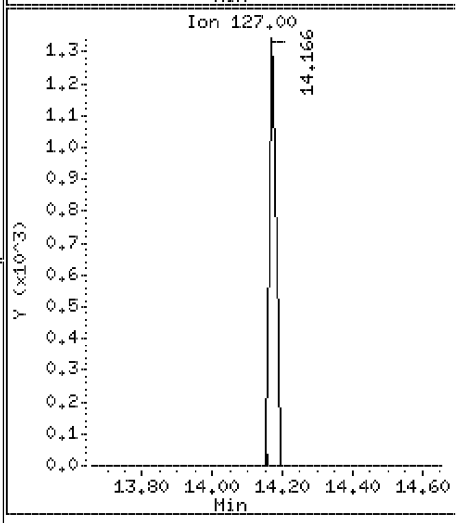
94 Naphthalene

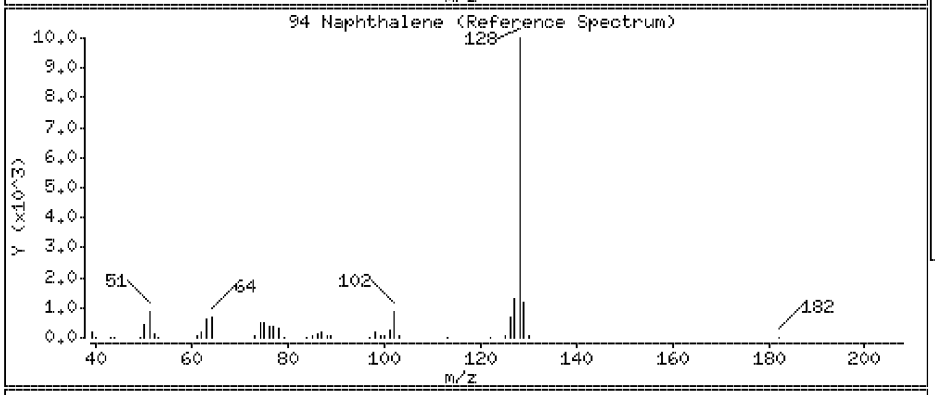
Concentration: 1.30 ppbv

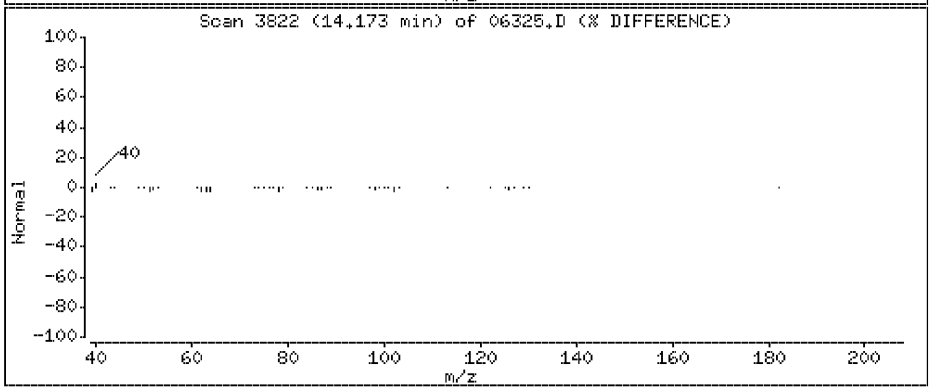






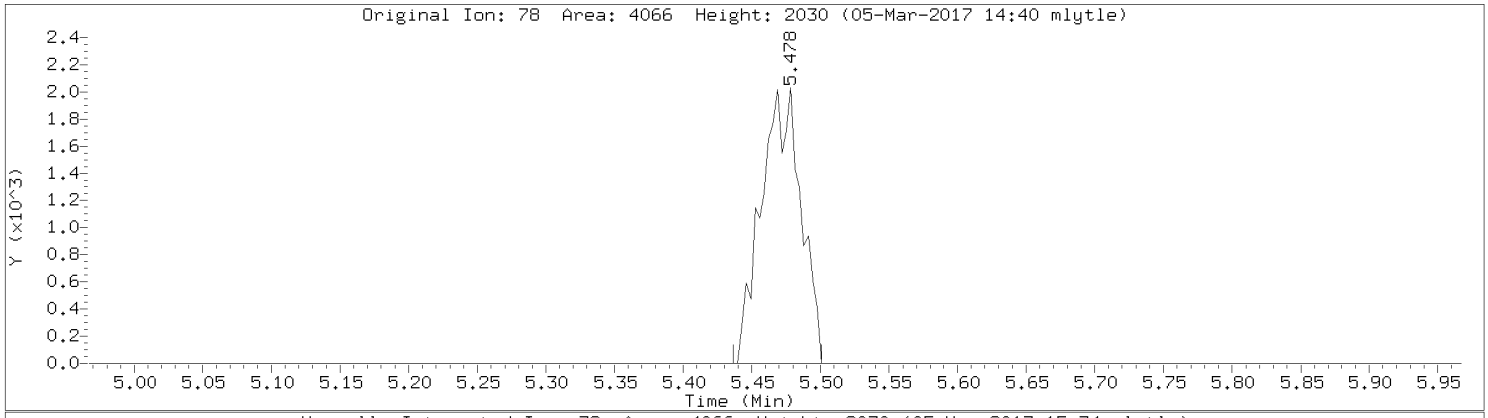


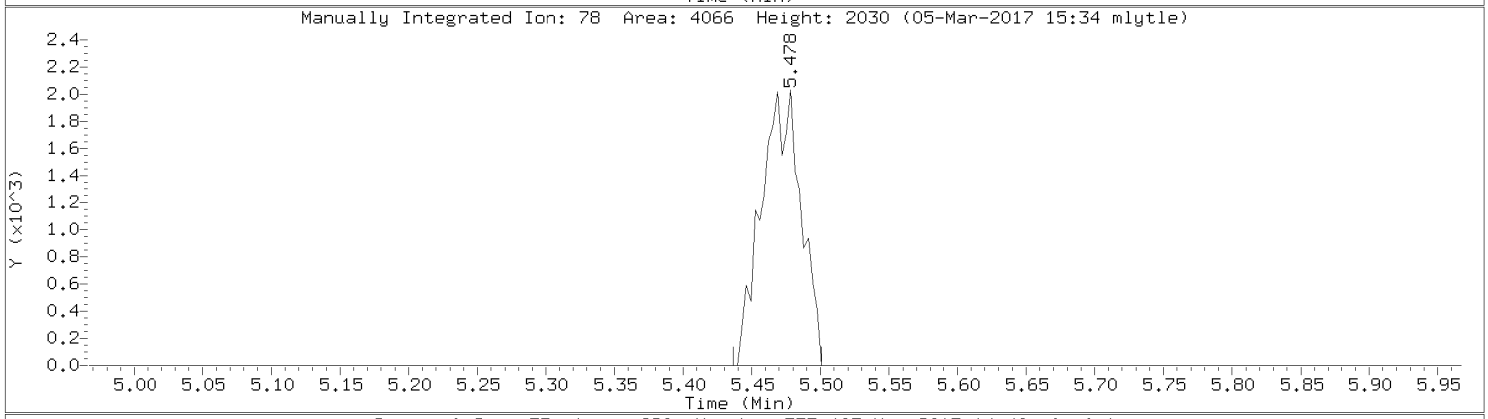


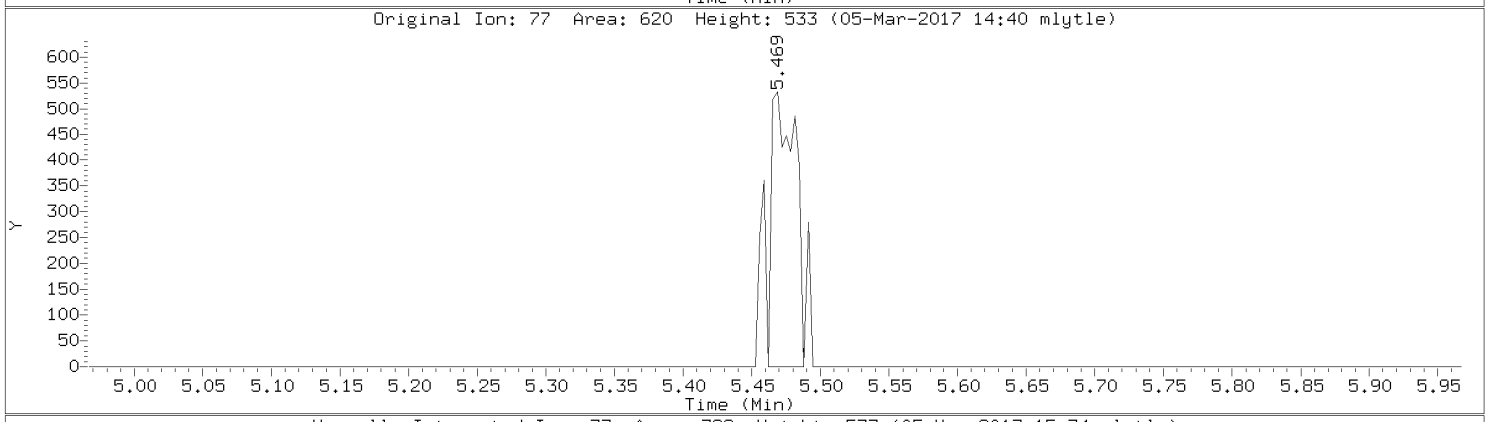


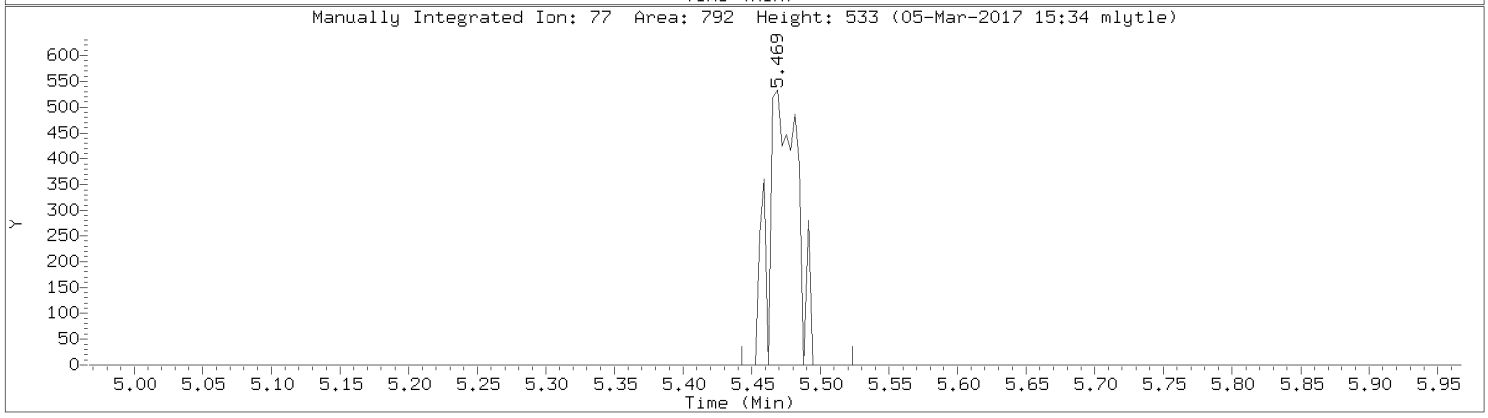
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06325.D
Injection Date: 04-MAR-2017 19:08
Instrument: 10airB.i
Lab Sample ID: 10379929017

Compound: Benzene
CAS Number: 71-43-2

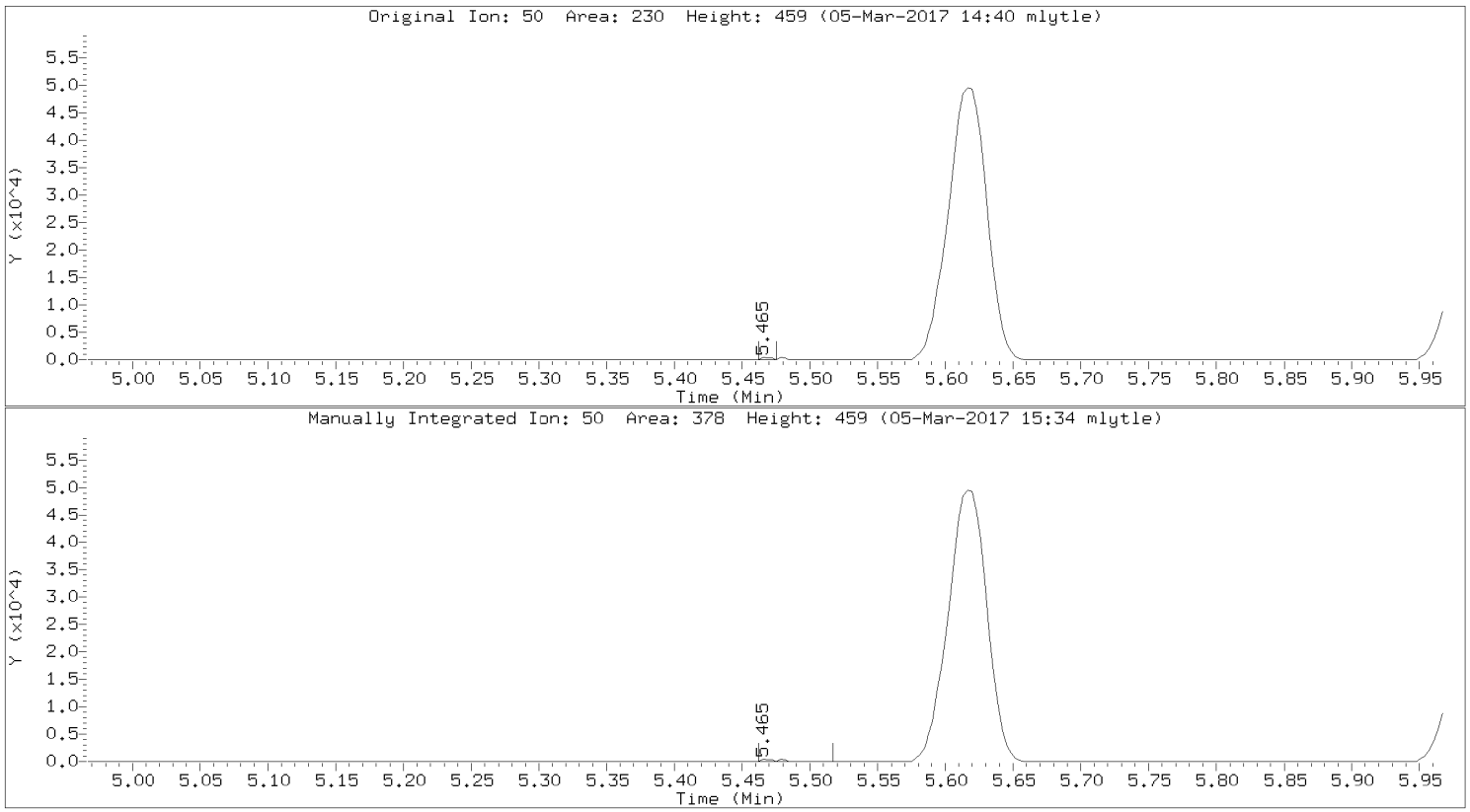








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06325.D
Injection Date: 04-MAR-2017 19:08
Instrument: 10airB.i
Lab Sample ID: 10379929017



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_62.5_20170221DUP **Lab ID: 10379929017** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 19:08	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 19:08	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 19:08	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 19:08	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 19:08	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 19:08	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/04/17 19:08	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 19:08	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 19:08	87-68-3	
n-Hexane	**<0.65**	ug/m3	1.3	0.65	1.83		03/04/17 19:08	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/04/17 19:08	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 19:08	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 19:08	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 19:08	108-87-2	
Methylene Chloride	**4.2J**	ug/m3	6.5	0.99	1.83		03/04/17 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 19:08	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 19:08	1634-04-4	
2-Propanol	**2.7J**	ug/m3	4.6	0.44	1.83		03/04/17 19:08	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/04/17 19:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 19:08	79-34-5	
Tetrachloroethene	**390**	ug/m3	1.3	0.51	1.83		03/04/17 19:08	127-18-4	
Tetrachloroethene	**647**	ug/m3	404	81.4	292.8		03/05/17 21:49	127-18-4	A3
Toluene	**0.86J**	ug/m3	1.4	0.28	1.83		03/04/17 19:08	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 19:08	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 19:08	71-55-6	
1,1,2-Trichloroethane	**5.5**	ug/m3	1.0	0.45	1.83		03/04/17 19:08	79-00-5	
Trichloroethene	**2970**	ug/m3	1.0	0.51	1.83		03/04/17 19:08	79-01-6	
Trichloroethene	**13800**	ug/m3	161	80.8	292.8		03/05/17 21:49	79-01-6	A3
Trichlorofluoromethane	**9.3**	ug/m3	2.1	0.24	1.83		03/04/17 19:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	**181**	ug/m3	2.9	0.55	1.83		03/04/17 19:08	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/04/17 19:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 19:08	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 19:08	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/04/17 19:08	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/04/17 19:08	95-47-6	

Sample: FPM-20_5_20170221DUP **Lab ID: 10379929018** Collected: 02/21/17 13:47 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**30.6**	ug/m3	4.4	1.5	1.83		03/04/17 19:39	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 19:39	107-05-1	
Benzene	**1.4**	ug/m3	0.59	0.22	1.83		03/04/17 19:39	71-43-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: FPM-20_5_20170221DUP **Lab ID: 10379929018** Collected: 02/21/17 13:47 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 19:39	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 19:39	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 19:39	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 19:39	106-99-0	
2-Butanone (MEK)	**5.2J**	ug/m3	5.5	0.42	1.83		03/04/17 19:39	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/04/17 19:39	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/04/17 19:39	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 19:39	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 19:39	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 19:39	75-00-3	
Chloroform	**<0.35**	ug/m3	0.91	0.35	1.83		03/04/17 19:39	67-66-3	
Chloromethane	**0.92**	ug/m3	0.77	0.20	1.83		03/04/17 19:39	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 19:39	76-15-3	
Cyclohexane	**0.98J**	ug/m3	1.3	0.58	1.83		03/04/17 19:39	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 19:39	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 19:39	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 19:39	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 19:39	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 19:39	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 19:39	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.8	0.88	1.83		03/04/17 19:39	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 19:39	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 19:39	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 19:39	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/04/17 19:39	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/04/17 19:39	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 19:39	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 19:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 19:39	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 19:39	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 19:39	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 19:39	123-91-1	
Ethylbenzene	**8.7**	ug/m3	1.6	0.78	1.83		03/04/17 19:39	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 19:39	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 19:39	87-68-3	
n-Hexane	**2.3**	ug/m3	1.3	0.65	1.83		03/04/17 19:39	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/04/17 19:39	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 19:39	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 19:39	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 19:39	108-87-2	
Methylene Chloride	**8.6**	ug/m3	6.5	0.99	1.83		03/04/17 19:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 19:39	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 19:39	1634-04-4	
2-Propanol	**39.7**	ug/m3	4.6	0.44	1.83		03/04/17 19:39	67-63-0	
Styrene	**0.84J**	ug/m3	1.6	0.35	1.83		03/04/17 19:39	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 19:39	79-34-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: FPM-20_5_20170221DUP **Lab ID: 10379929018** Collected: 02/21/17 13:47 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 19:39	127-18-4	
Toluene	**3.6**	ug/m3	1.4	0.28	1.83		03/04/17 19:39	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 19:39	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 19:39	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/04/17 19:39	79-00-5	
Trichloroethene	**2.7**	ug/m3	1.0	0.51	1.83		03/04/17 19:39	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.1	0.24	1.83		03/04/17 19:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/04/17 19:39	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/04/17 19:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 19:39	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 19:39	75-01-4	
m&p-Xylene	**38.0**	ug/m3	3.2	1.4	1.83		03/04/17 19:39	179601-23-1	
o-Xylene	**9.7**	ug/m3	1.6	0.64	1.83		03/04/17 19:39	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D
Report Date: 05-Mar-2017 15:37

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06326.D
Lab Smp Id: 10379929018
Inj Date : 04-MAR-2017 19:39
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 26
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.012	3.018	(0.538)	30254	4.21084	7.71(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.060	(0.546)	10779	0.23273	0.426(M)	
6	Chloromethane	50	3.150	3.156	(0.563)	3357	0.23841	0.436	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.539	3.545	(0.632)	34171	7.58849	13.9	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.587	3.600	(0.641)	16683	1.23254	2.26	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.661	3.674	(0.654)	3962	0.11792	0.216(M)	
17	Acrolein	56	3.674	3.684	(0.656)	478	0.29745	0.544(Q)	
18	Acetone	43	3.710	3.722	(0.662)	134743	6.92958	12.7(M)	
19	Isopropyl Alcohol	45	3.761	3.767	(0.672)	171975	8.67210	15.9	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D
Report Date: 05-Mar-2017 15:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	4.005	(0.712)	18171	1.32402	2.42	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.439	4.391	(0.793)	3184	0.28031	0.513(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.800)	372244	9.54715	9.55	
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.813)	5158	0.95666	1.75(Q)	
	34 n-Hexane	57	4.578	4.584	(0.817)	6799	0.34791	0.637(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.716	4.716	(0.842)	9410	0.37413	0.685(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.449	5.468	(0.973)	9114	0.23060	0.422	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.481	5.487	(0.979)	3024	0.15284	0.280(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1225511	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.989	(1.067)	5491	0.26667	0.488	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.070	7.076	(1.262)	1058522	9.65042	9.65	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.276)	25166	0.50844	0.930	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	7.574	7.584	(0.877)	4736	0.17052	0.312(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	812001	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.934	(1.034)	64373	1.07786	1.97	
	70 m&p-Xylene	91	9.073	9.082	(1.050)	220792	4.71016	8.62	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.497	9.507	(1.099)	1165	0.10583	0.194	
	74 o-Xylene	91	9.574	9.581	(1.108)	57131	1.19798	2.19	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D
Report Date: 05-Mar-2017 15:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.397	11.378	(2.035)	4762	0.38550	0.705(QM)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	458926	10.2598	10.3	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.156	(1.641)	2471	0.41349	0.757(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D
Report Date: 05-Mar-2017 15:37

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06326.D
Lab Smp Id: 10379929018
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

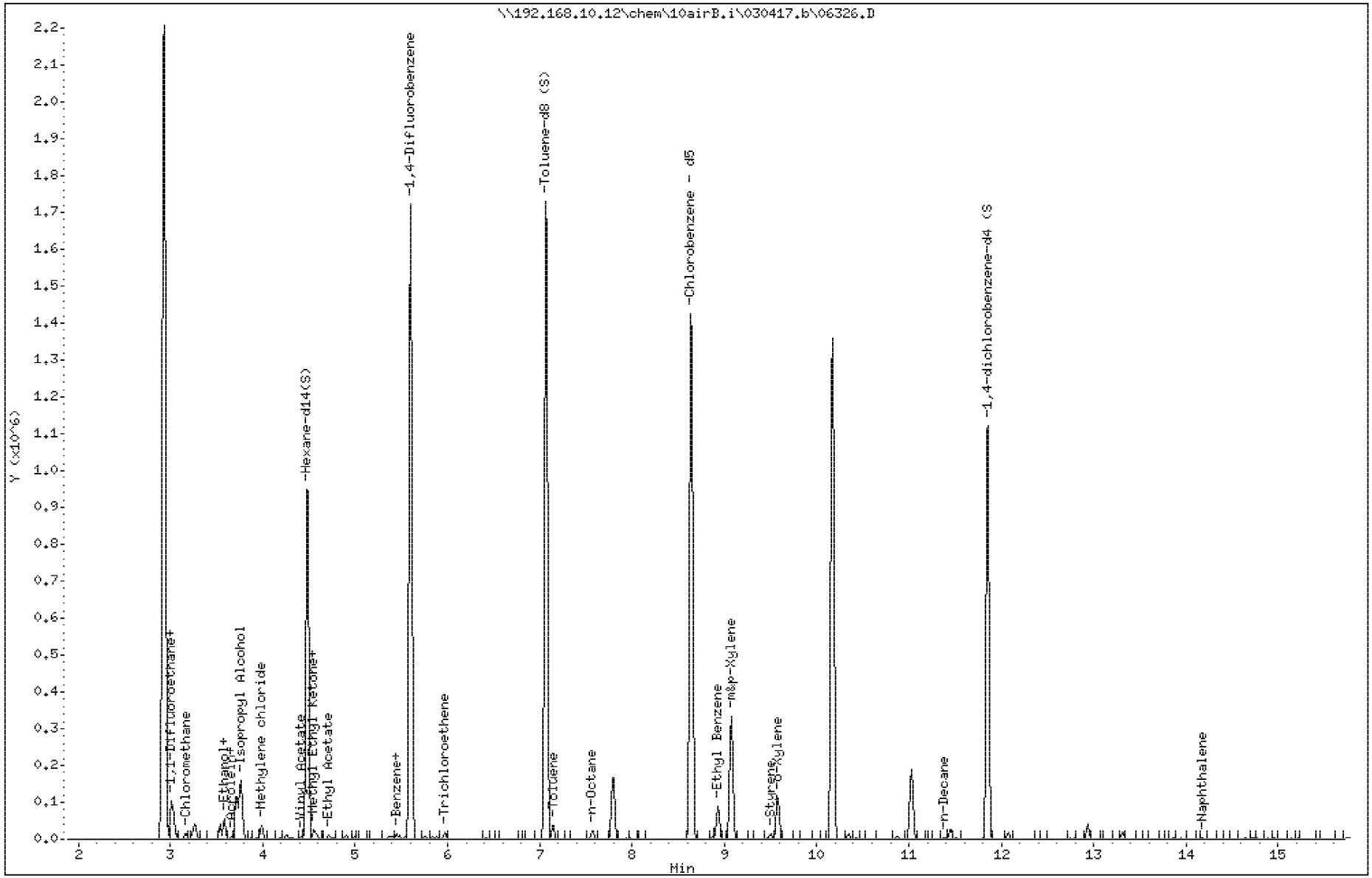
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1225511	-13.34
67 Chlorobenzene - d	951026	570616	1331436	812001	-14.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D
Date : 04-MAR-2017 19:39
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

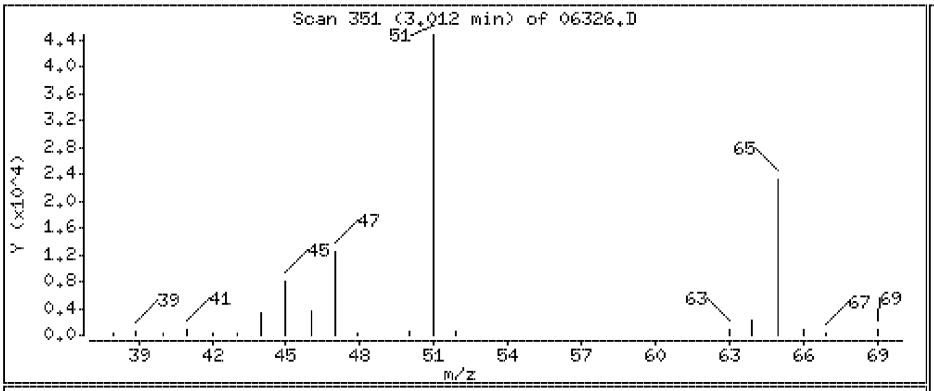
Operator: MJL

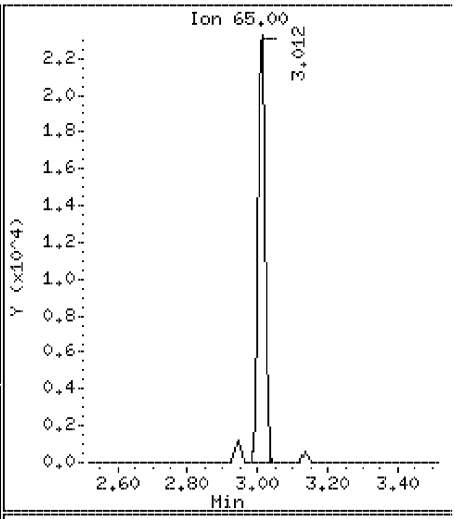
Column phase: J&W DB-5

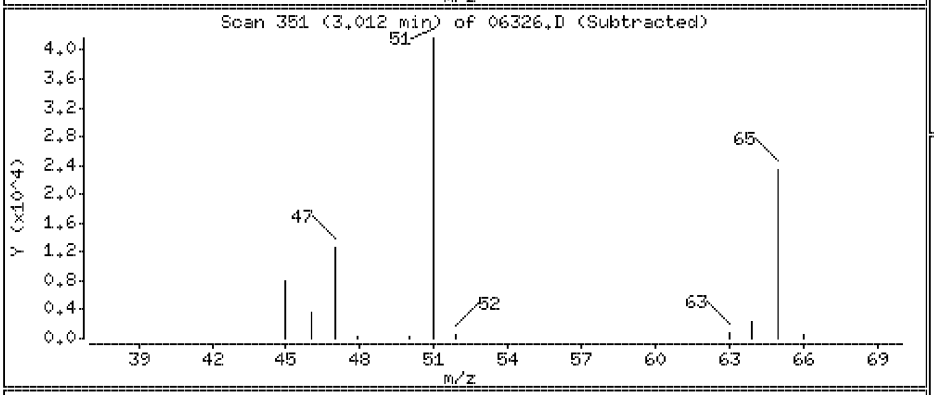
Column diameter: 0.32

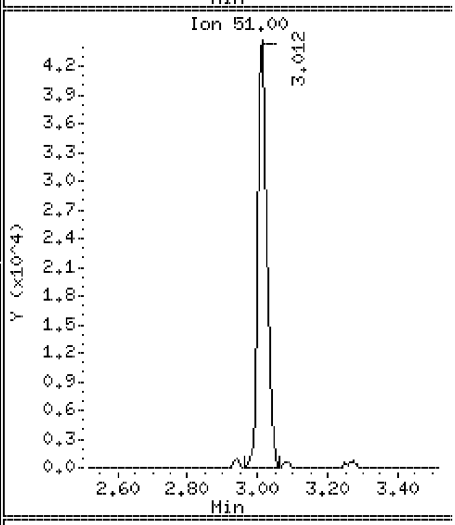
2 1,1-Difluoroethane

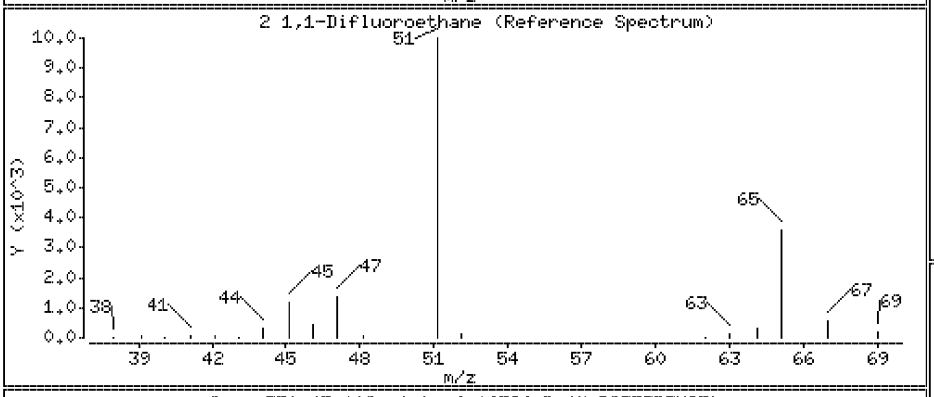
Concentration: 7.71 ppbv

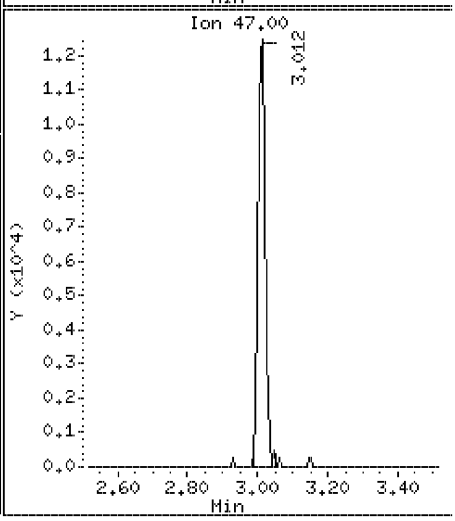


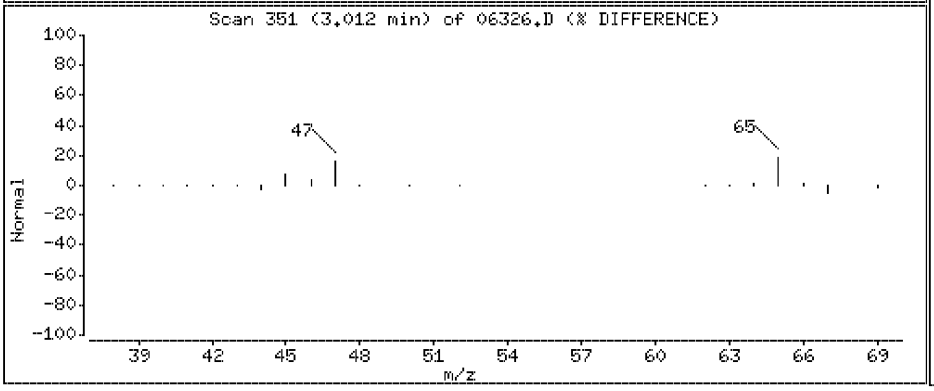












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

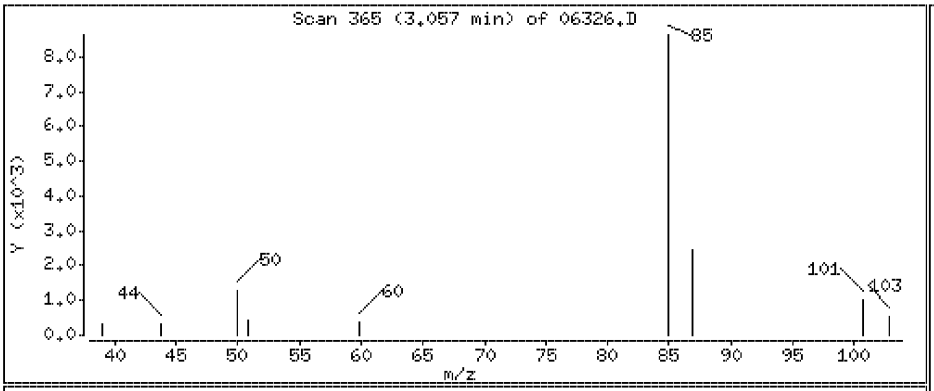
Operator: MJL

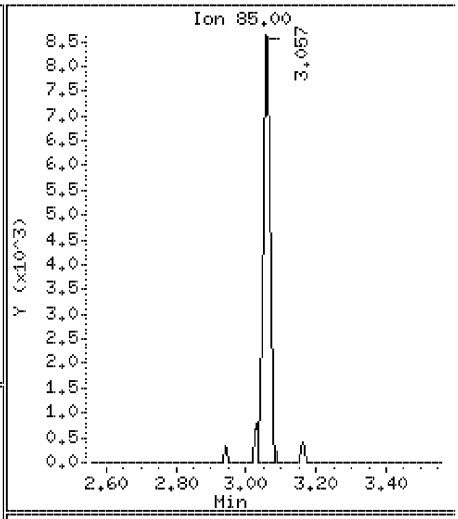
Column phase: J&W DB-5

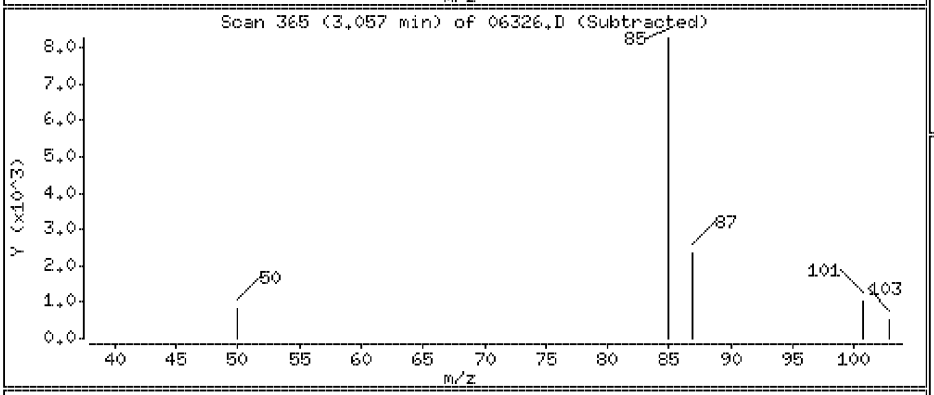
Column diameter: 0.32

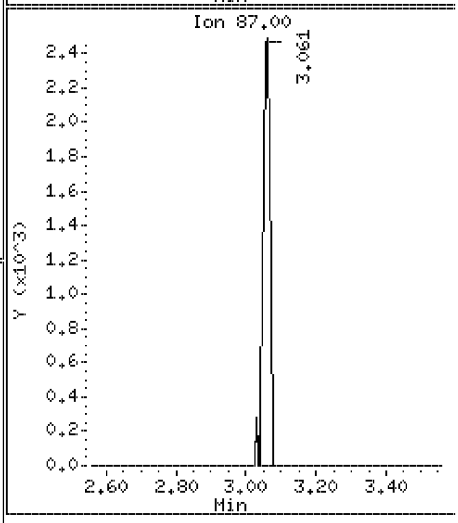
5 Dichlorodifluoromethane

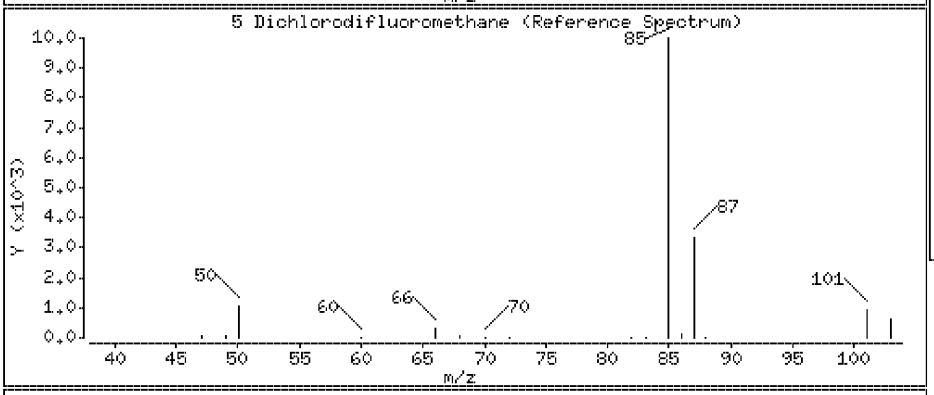
Concentration: 0.426 ppbv

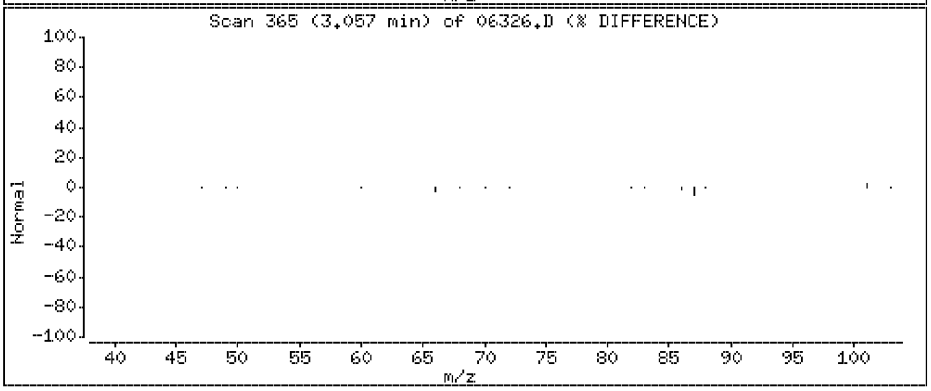












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

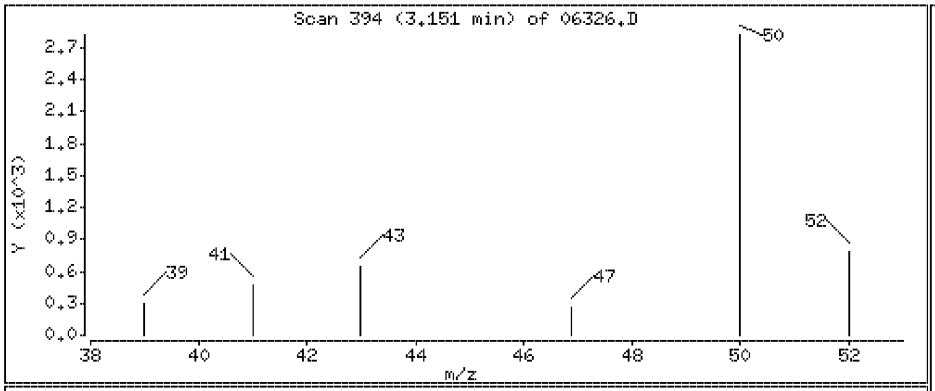
Operator: MJL

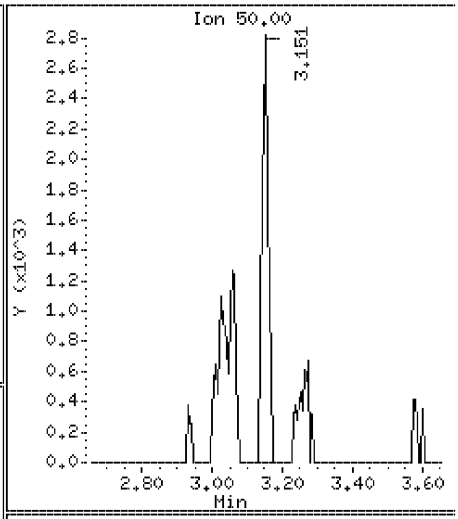
Column phase: J&W DB-5

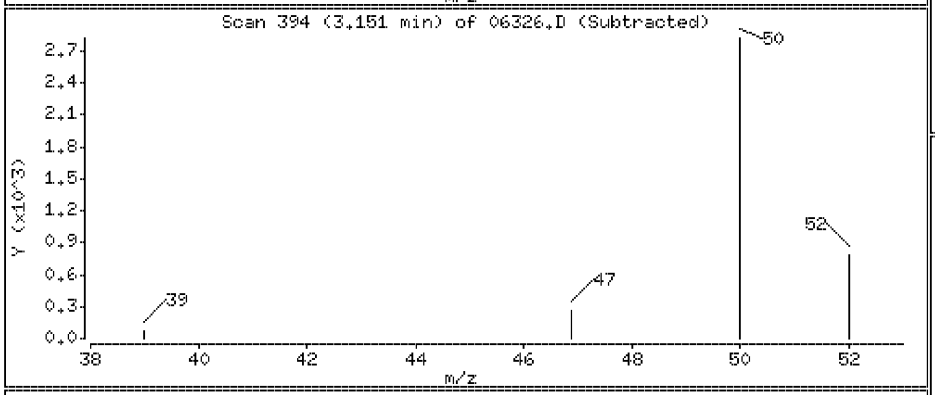
Column diameter: 0.32

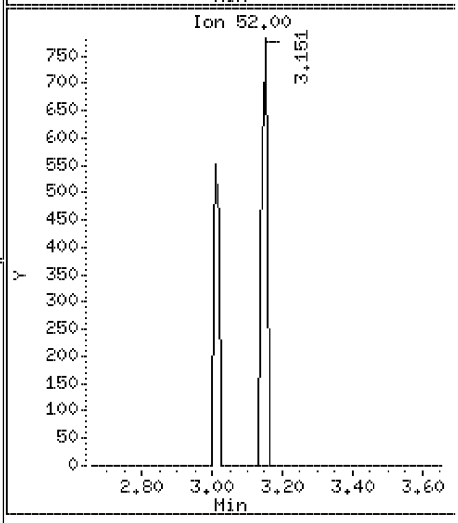
6 Chloromethane

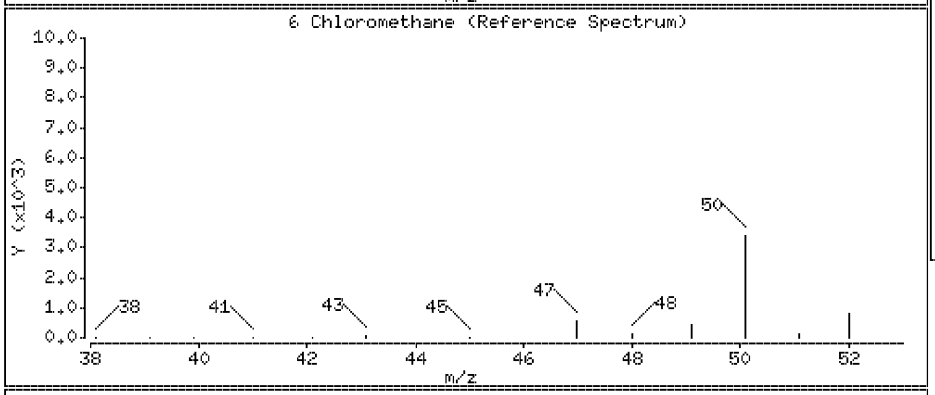
Concentration: 0.436 ppbv

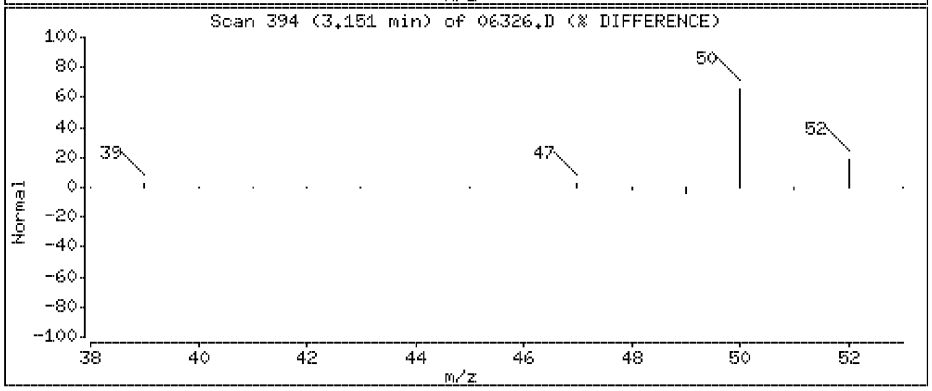












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

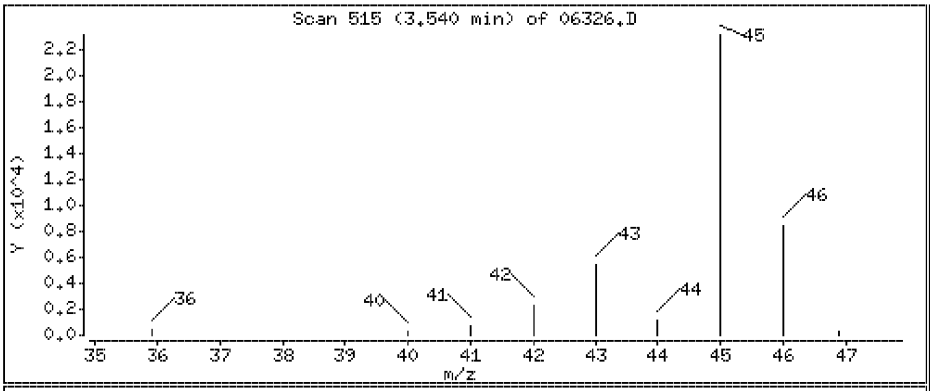
Operator: MJL

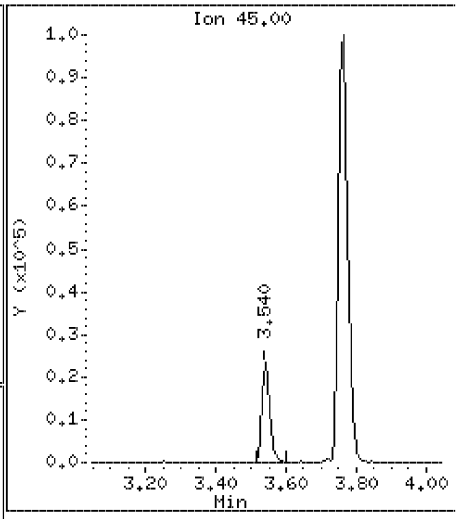
Column phase: J&W DB-5

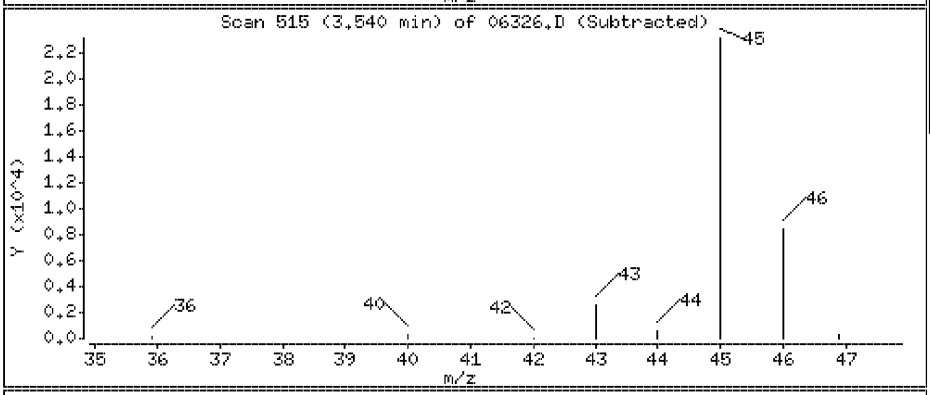
Column diameter: 0.32

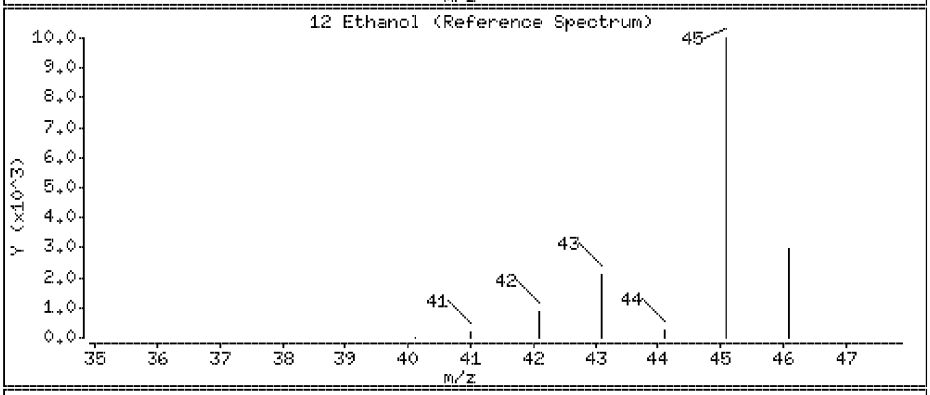
12 Ethanol

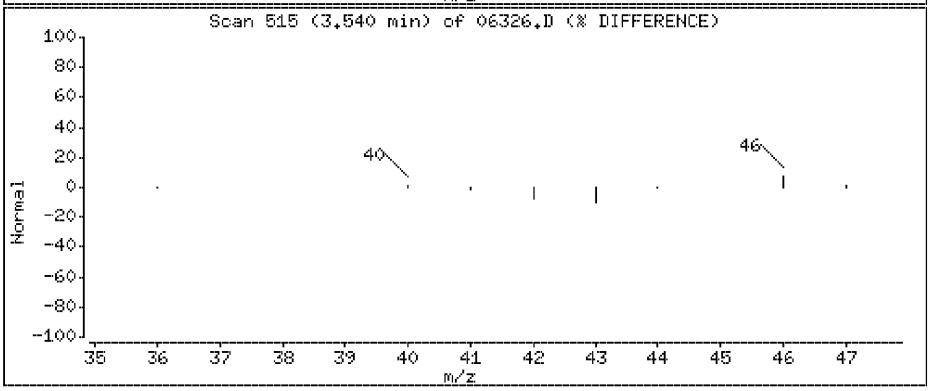
Concentration: 13.9 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

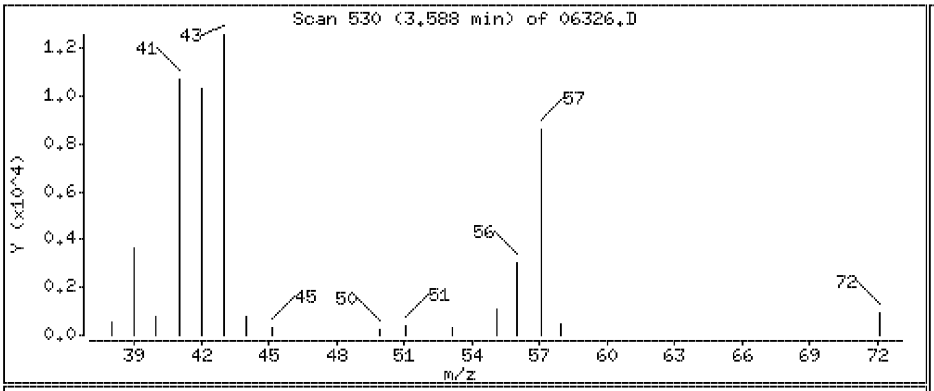
Operator: MJL

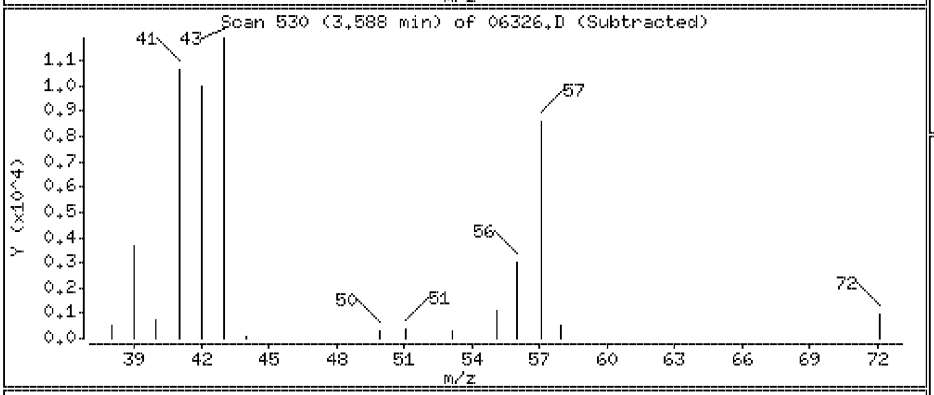
Column phase: J&W DB-5

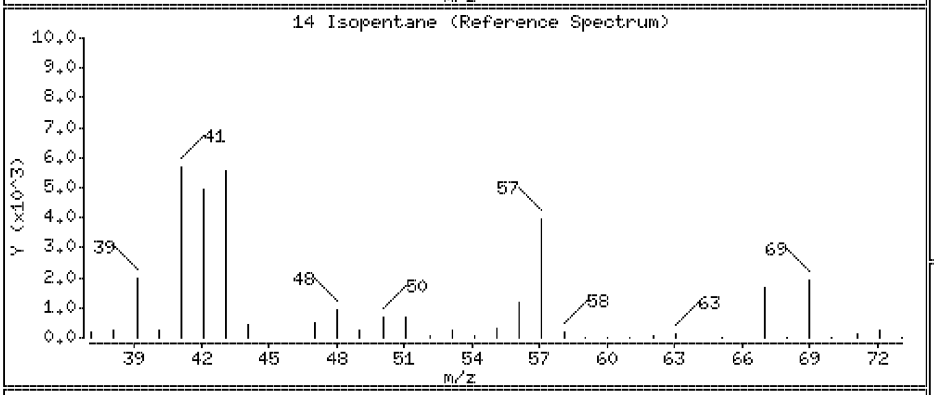
Column diameter: 0.32

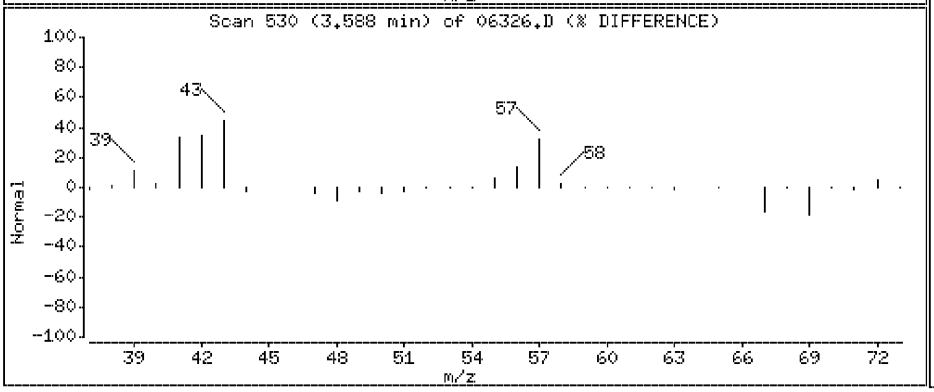
14 Isopentane

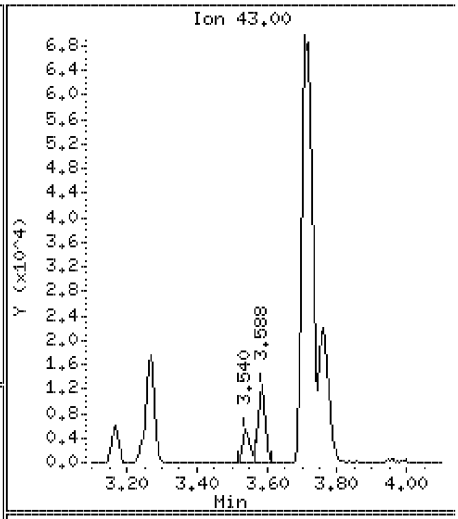
Concentration: 2.26 ppbv

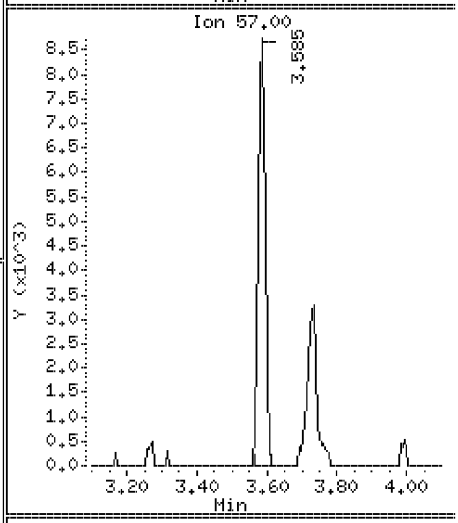


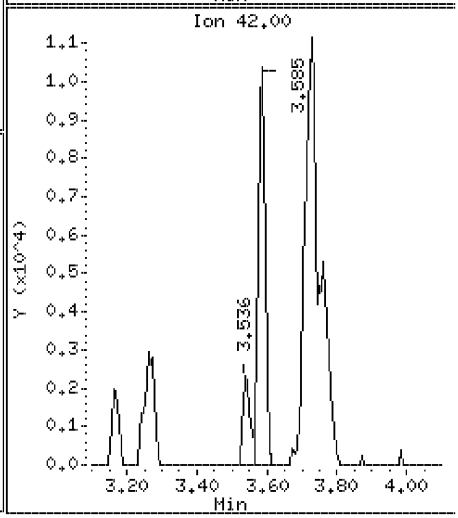












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

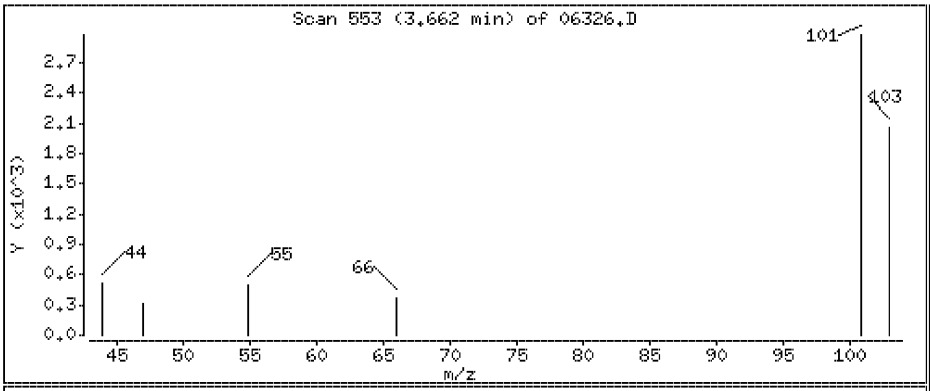
Operator: MJL

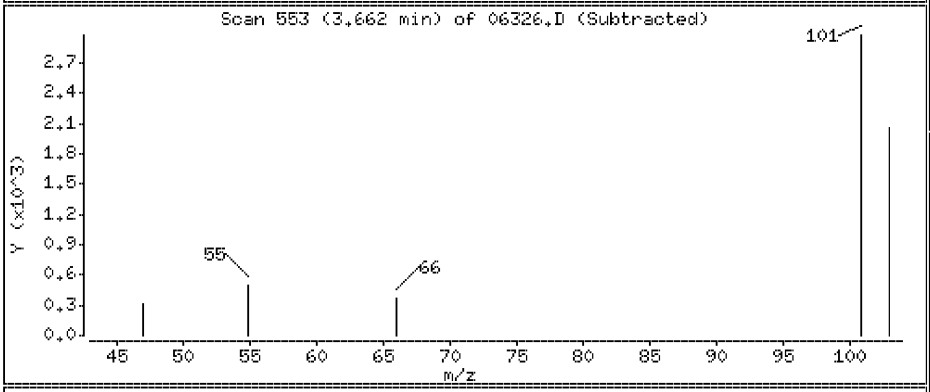
Column phase: J&W DB-5

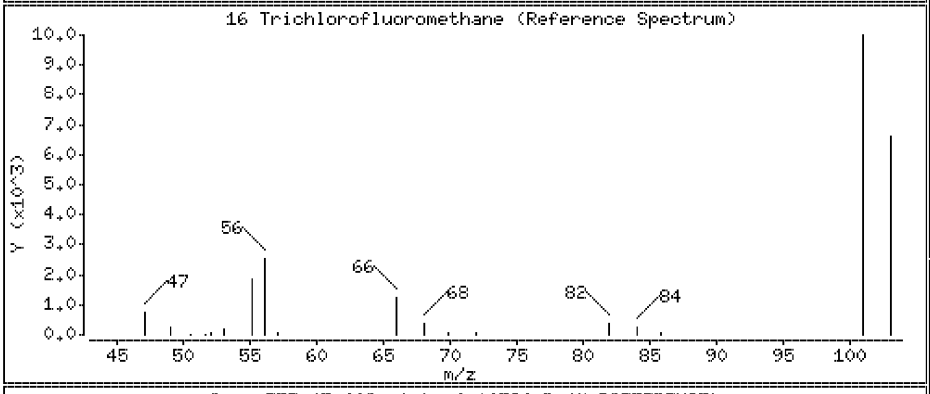
Column diameter: 0.32

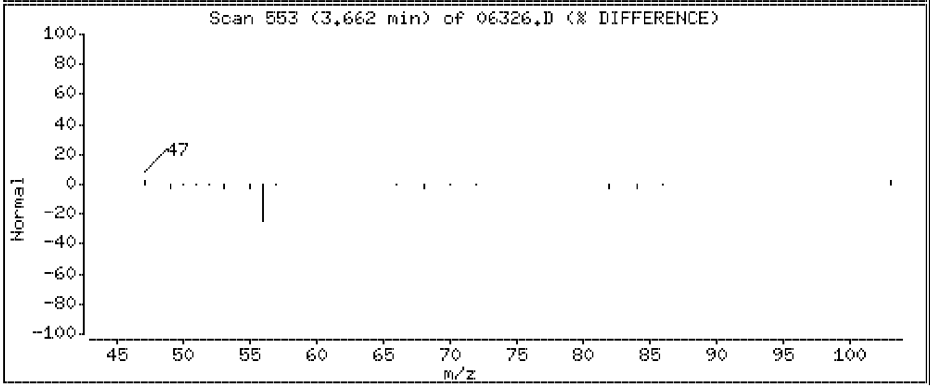
16 Trichlorofluoromethane

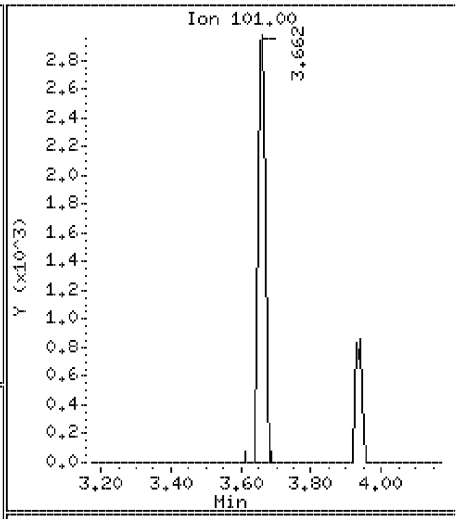
Concentration: 0.216 ppbv

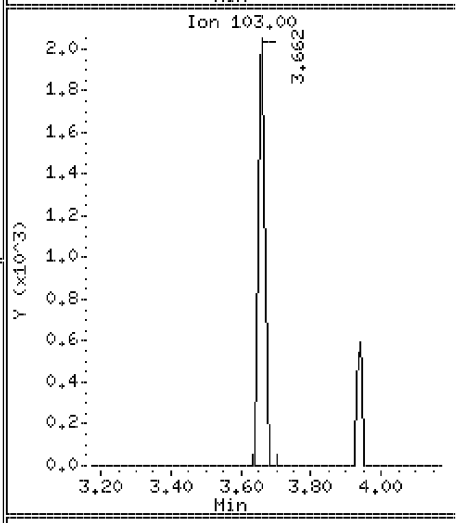


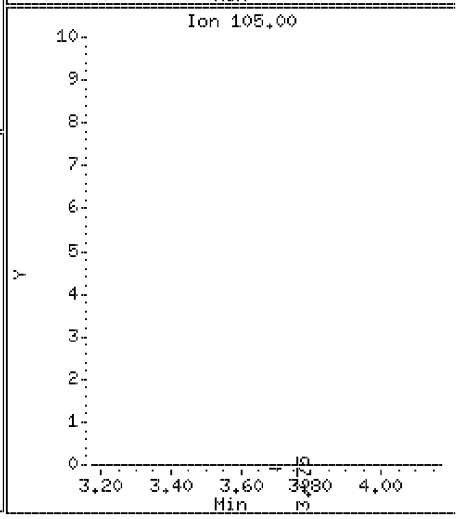












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

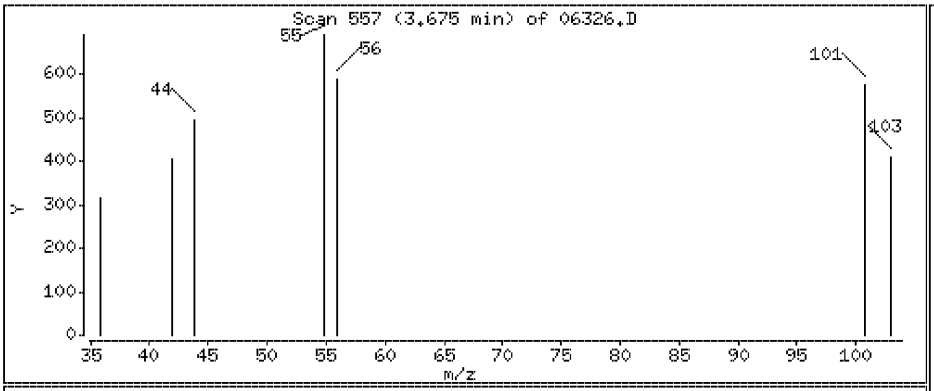
Operator: MJL

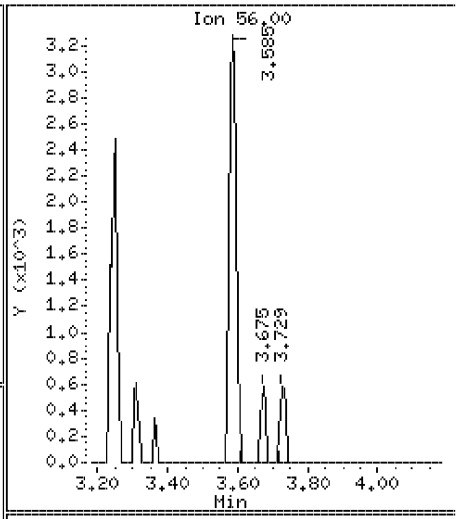
Column phase: J&W DB-5

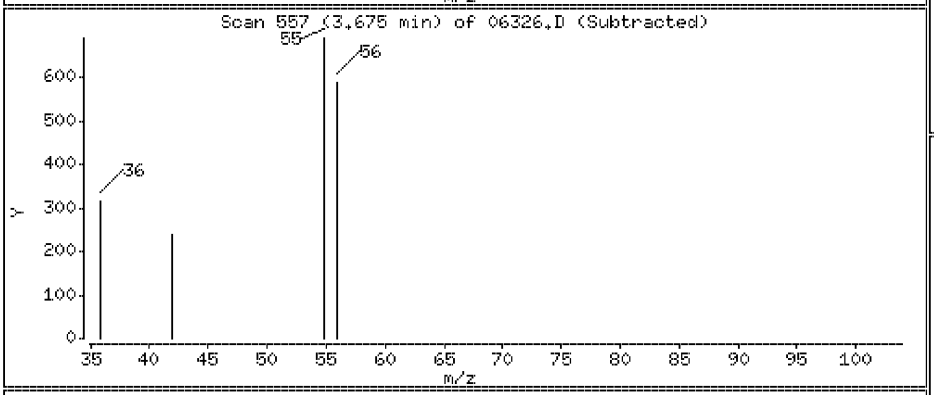
Column diameter: 0.32

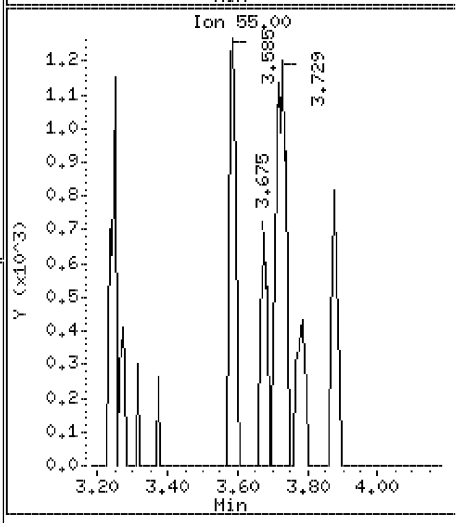
17 Acrolein

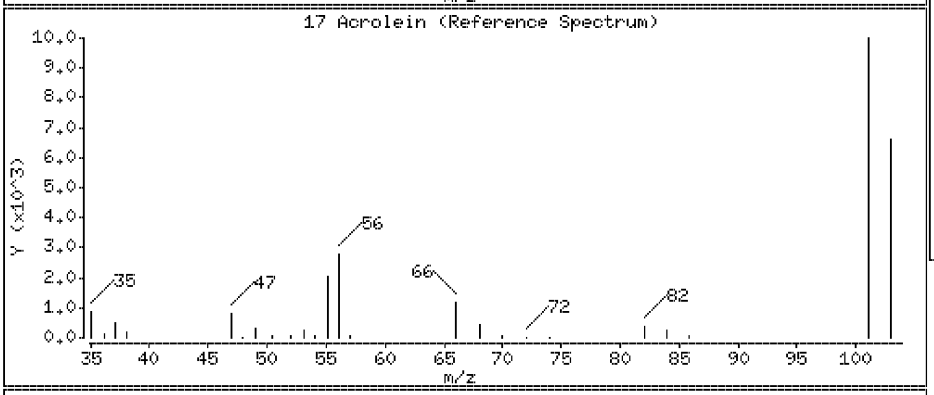
Concentration: 0.544 ppbv

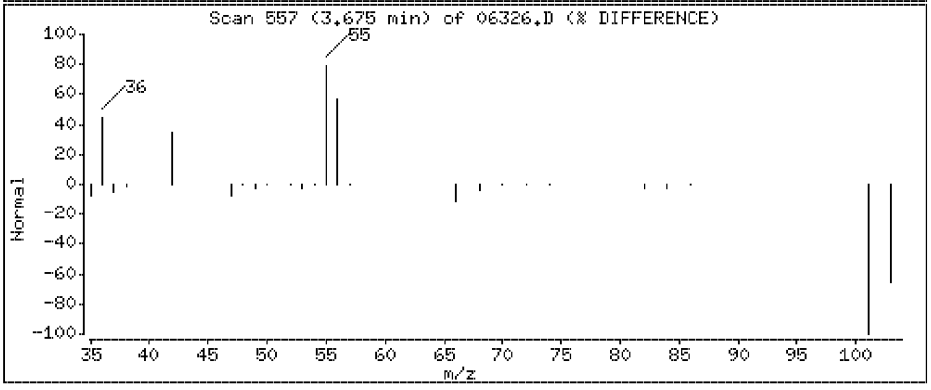












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

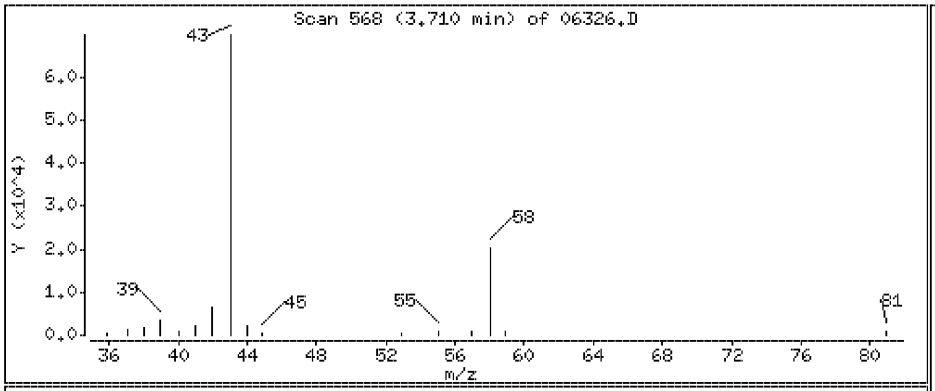
Operator: MJL

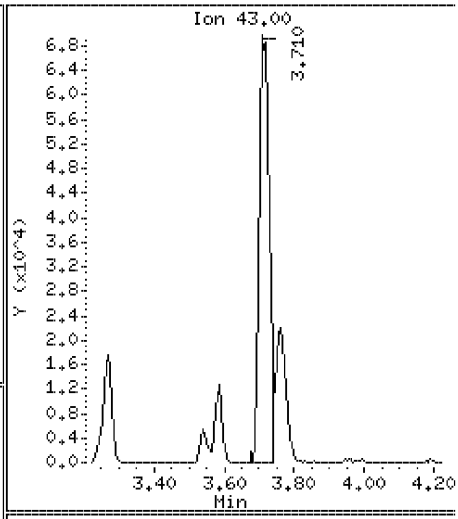
Column phase: J&W DB-5

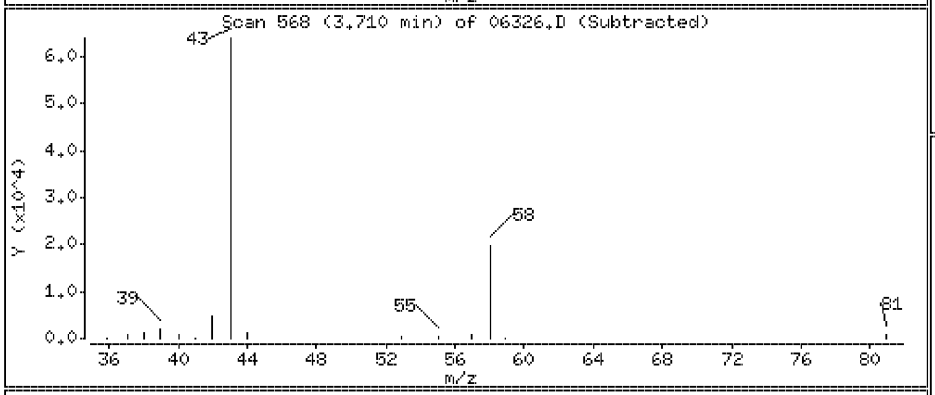
Column diameter: 0.32

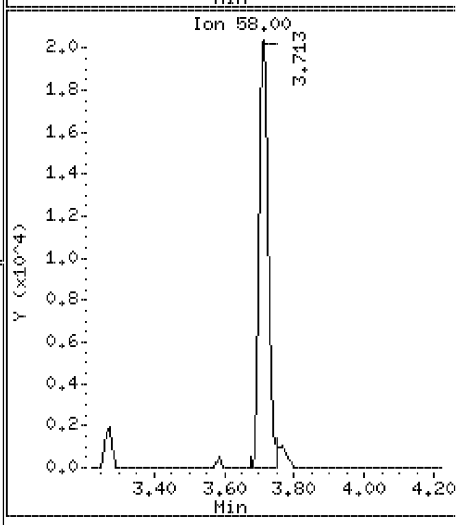
18 Acetone

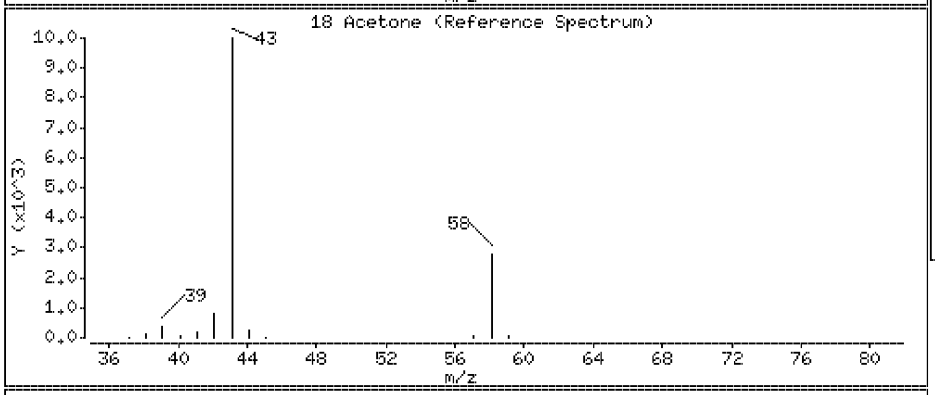
Concentration: 12.7 ppbv

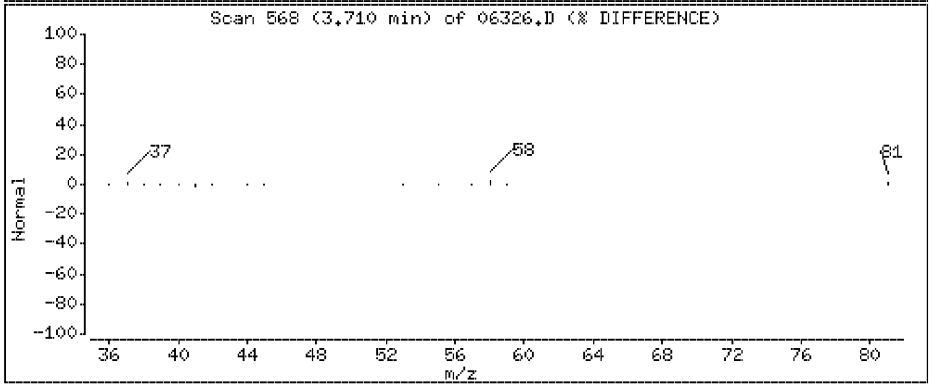












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

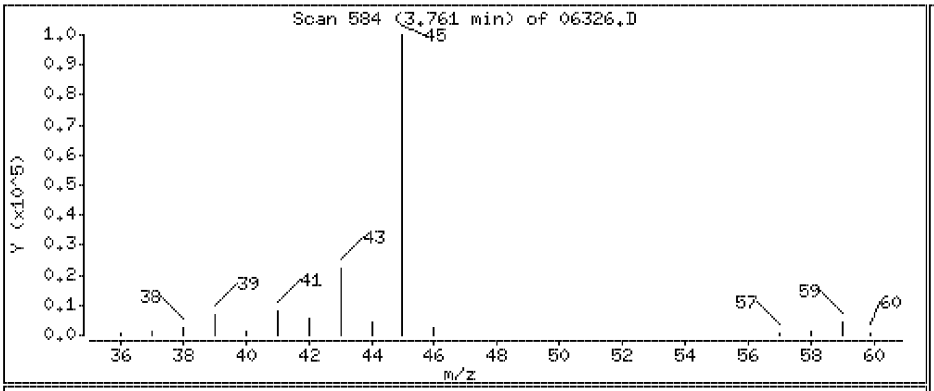
Operator: MJL

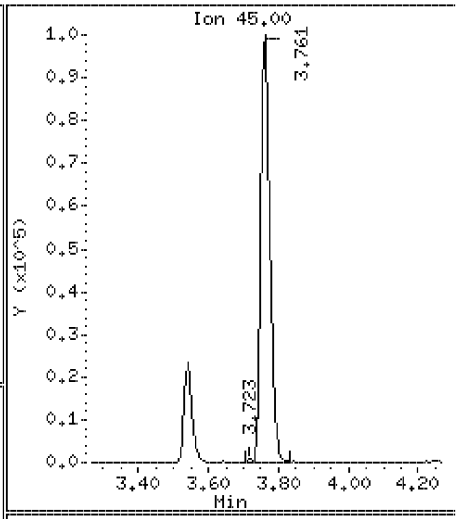
Column phase: J&W DB-5

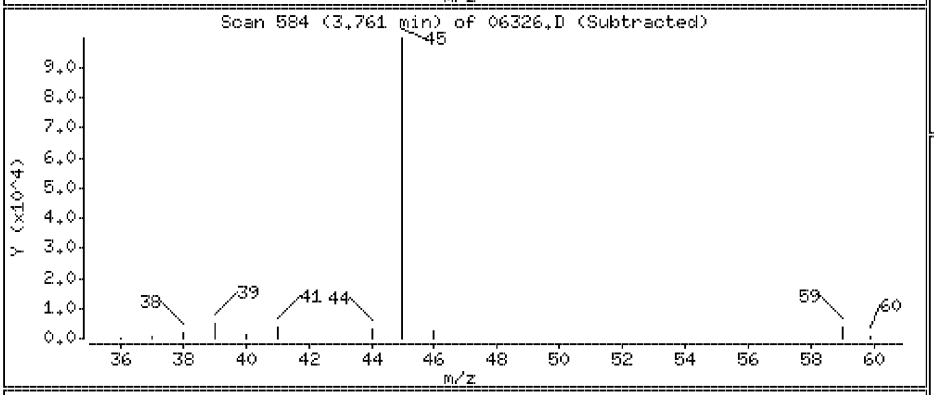
Column diameter: 0.32

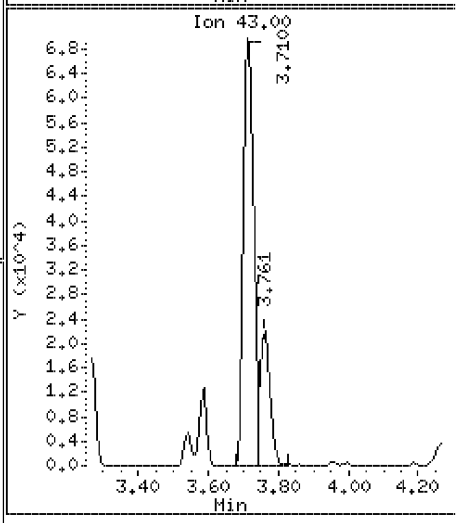
19 Isopropyl Alcohol

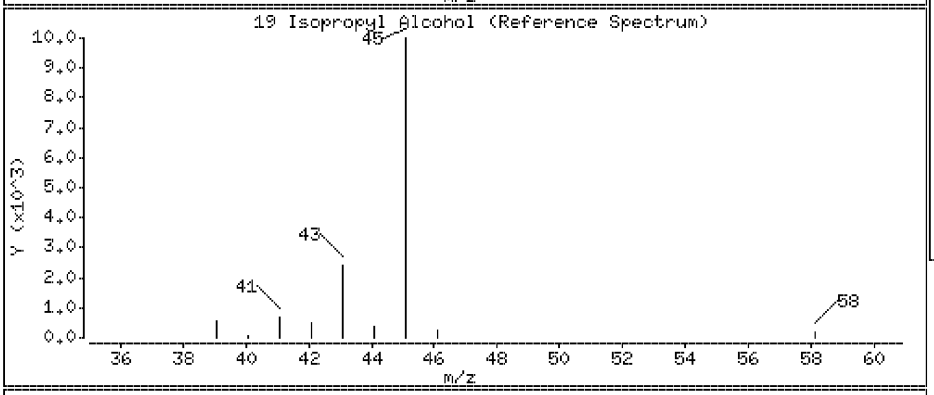
Concentration: 15.9 ppbv

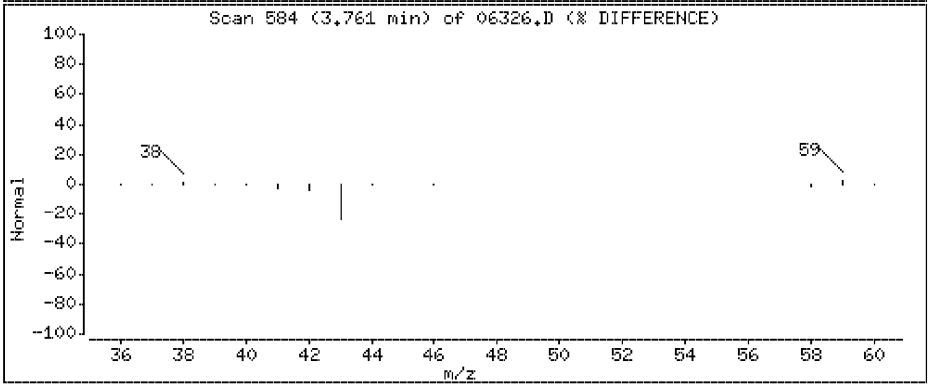












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

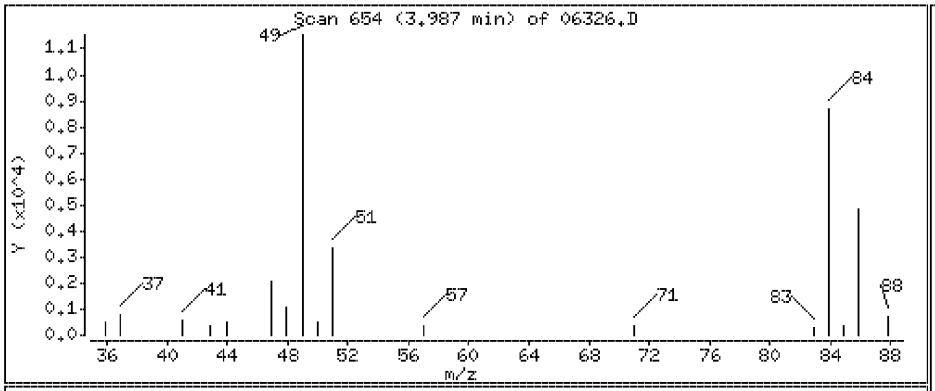
Operator: MJL

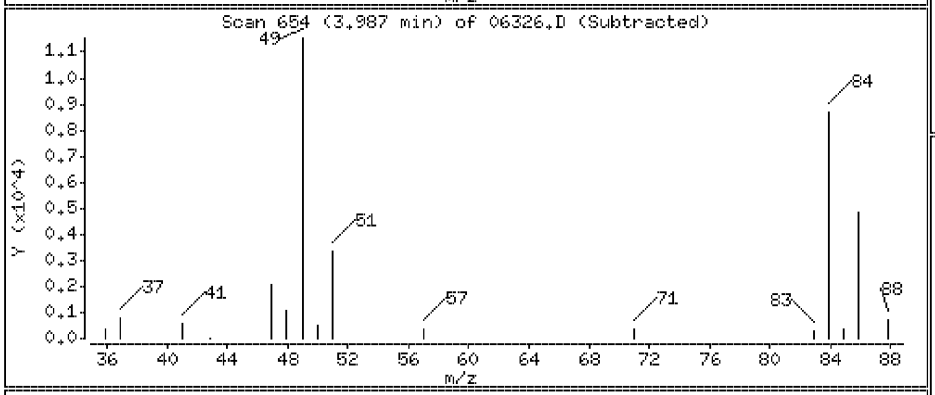
Column phase: J&W DB-5

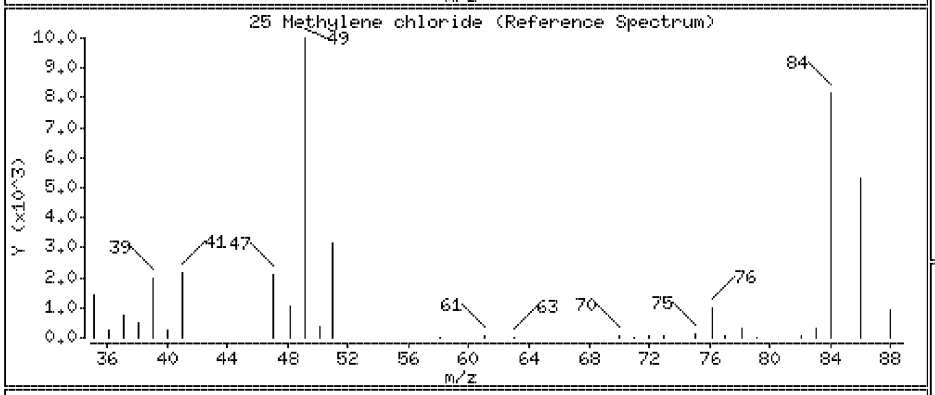
Column diameter: 0.32

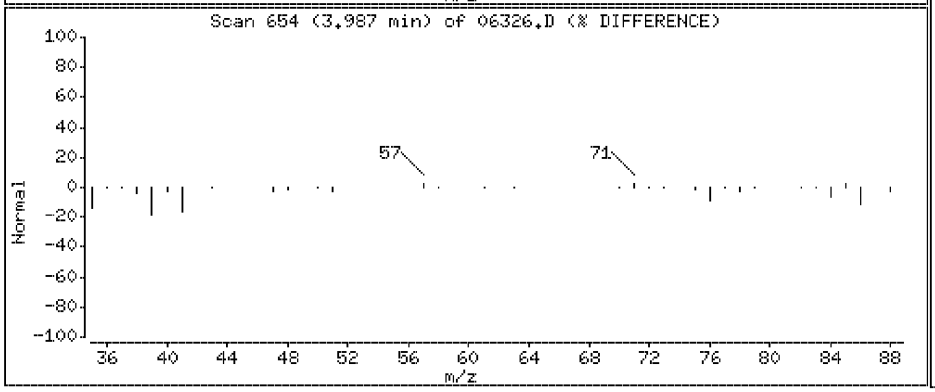
25 Methylene chloride

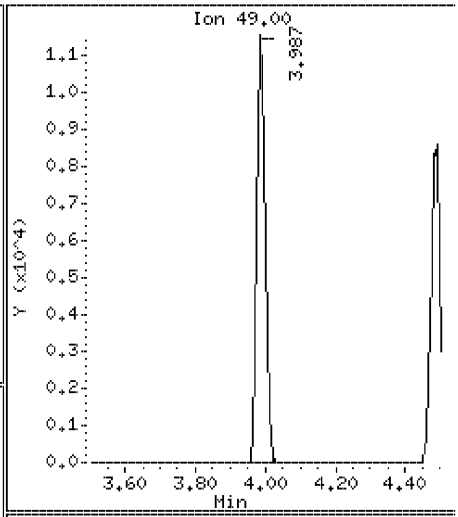
Concentration: 2.42 ppbv

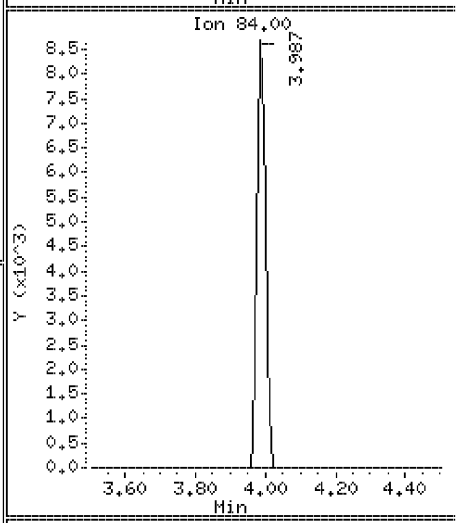


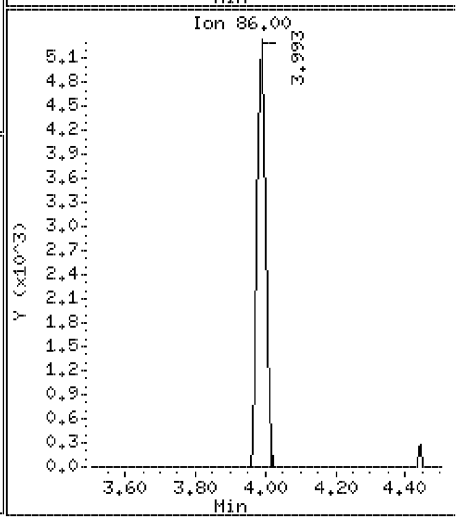












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

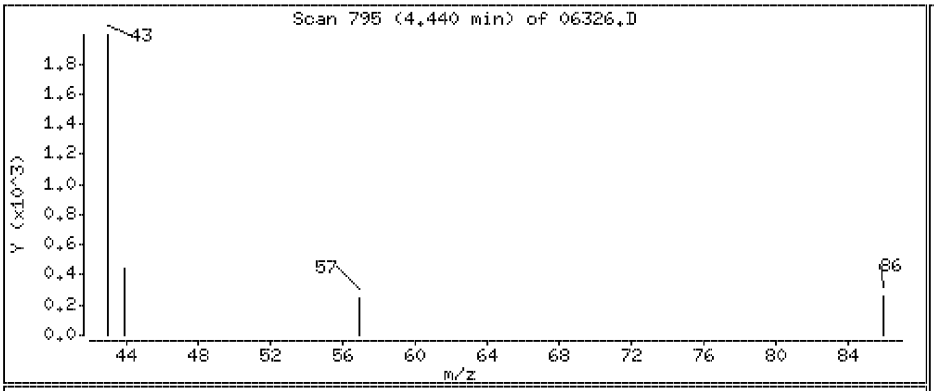
Operator: MJL

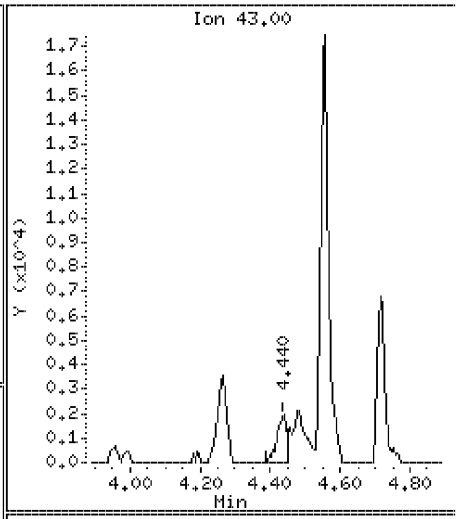
Column phase: J&W DB-5

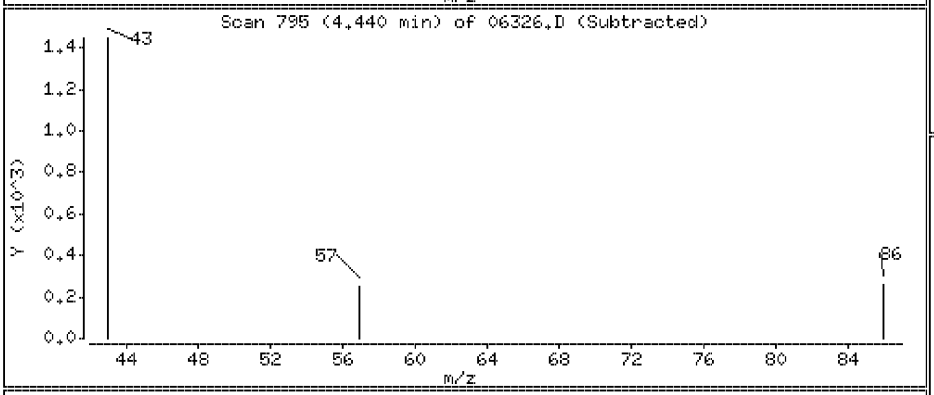
Column diameter: 0.32

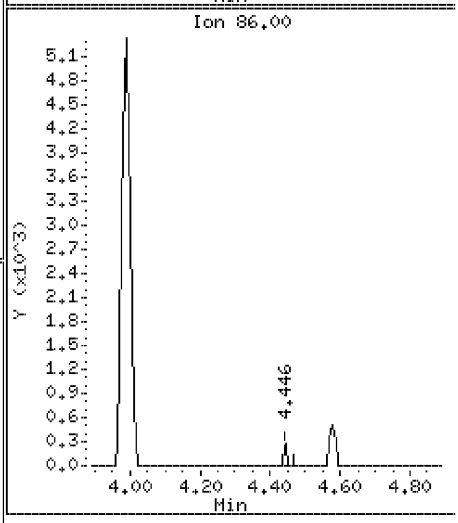
30 Vinyl Acetate

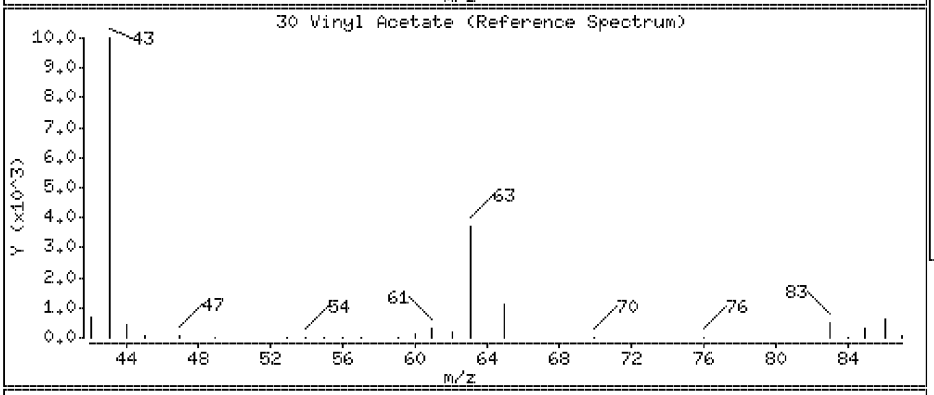
Concentration: 0.513 ppbv

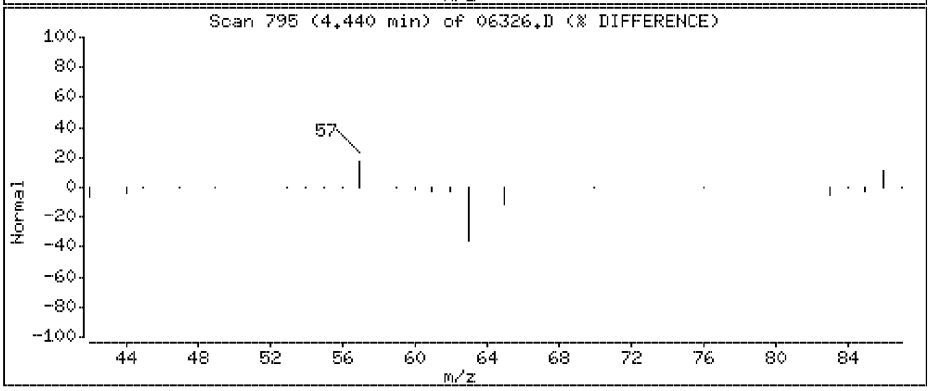












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

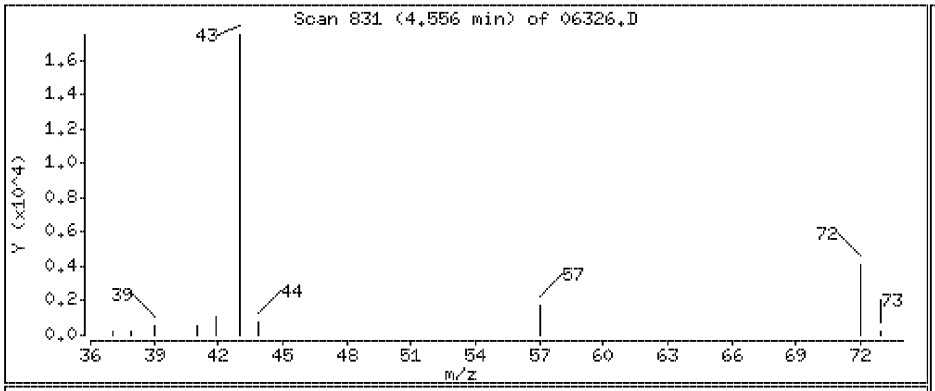
Operator: MJL

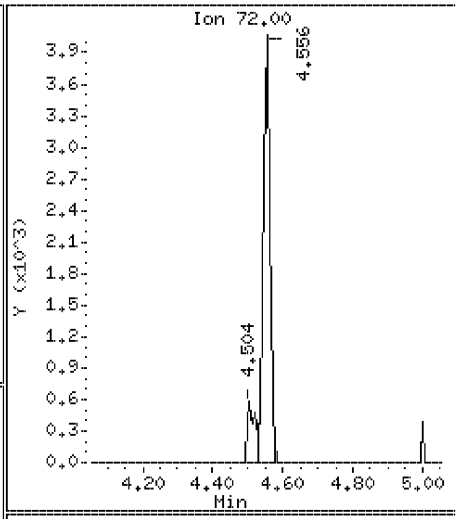
Column phase: J&W DB-5

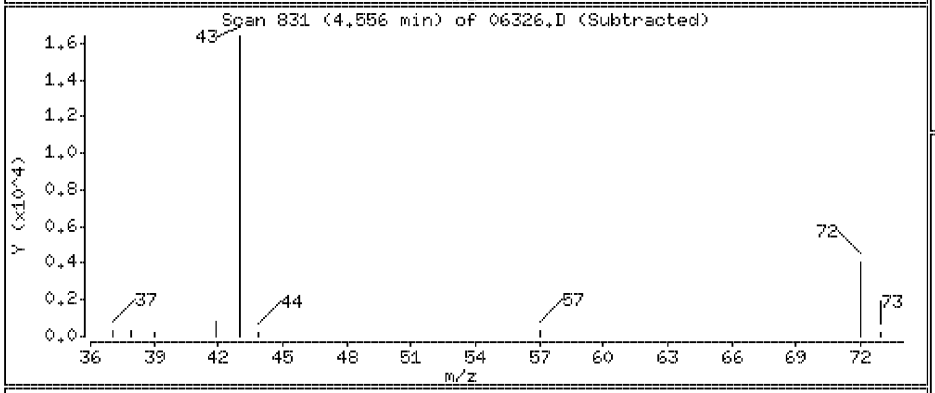
Column diameter: 0.32

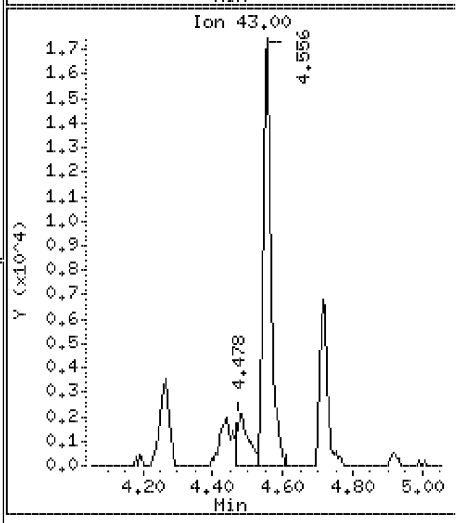
33 Methyl Ethyl Ketone

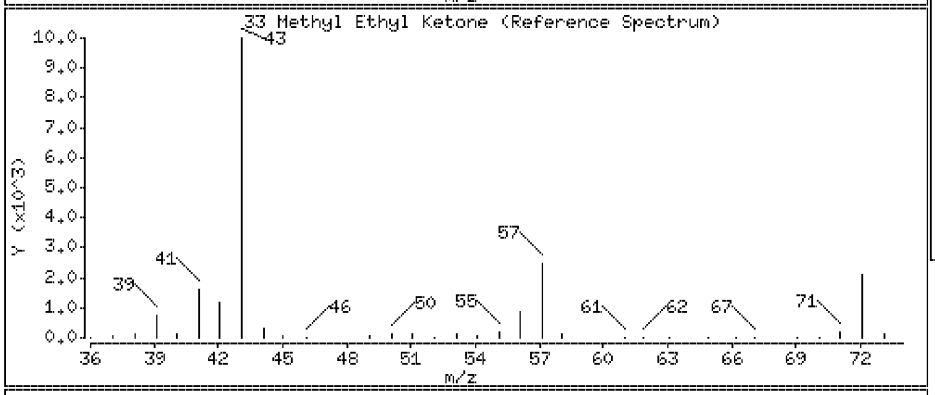
Concentration: 1.75 ppbv

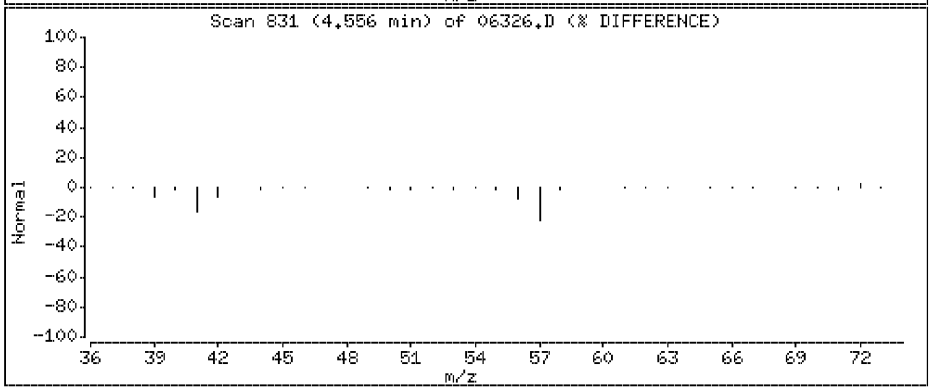












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

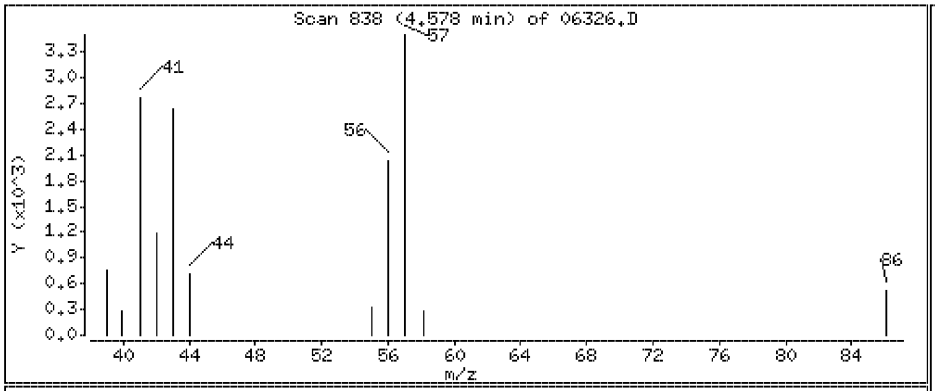
Operator: MJL

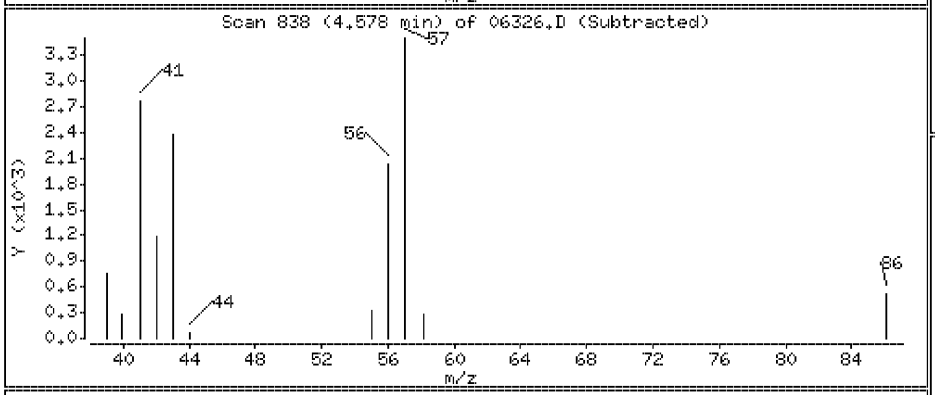
Column phase: J&W DB-5

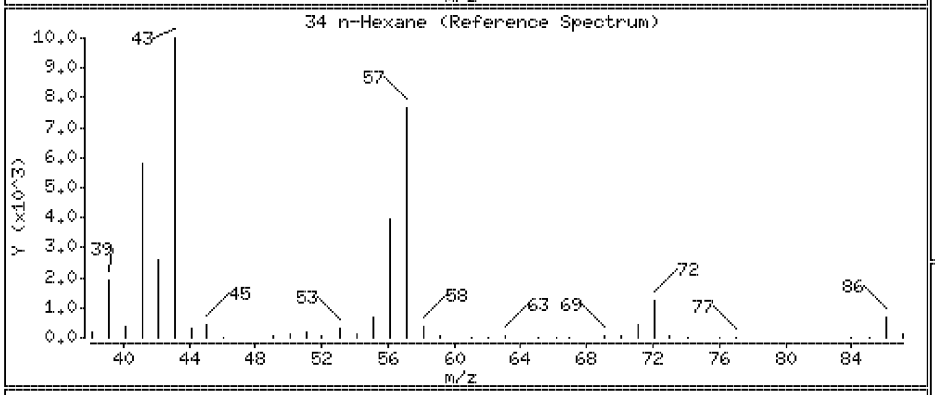
Column diameter: 0.32

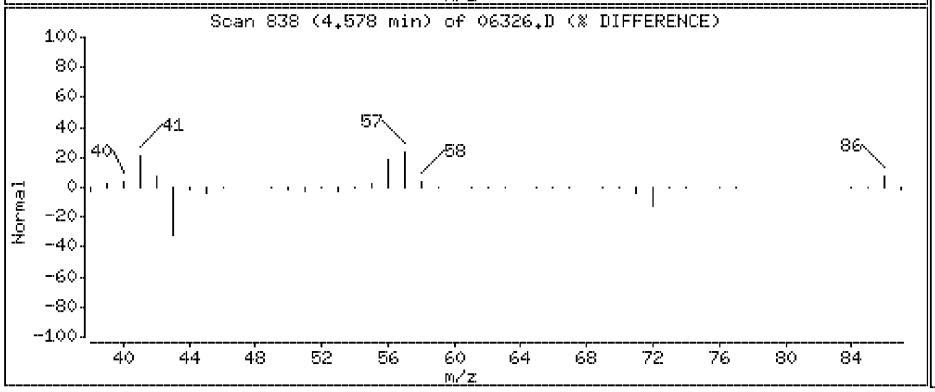
34 n-Hexane

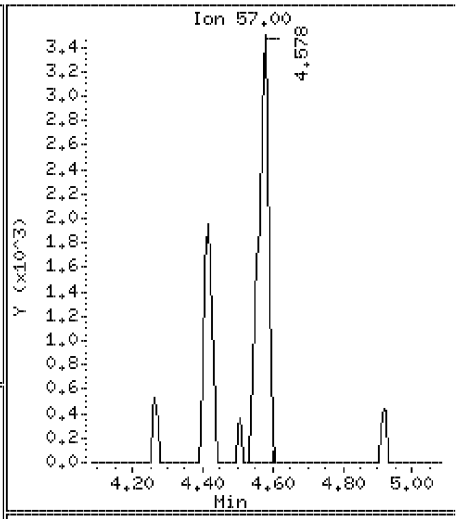
Concentration: 0.637 ppbv

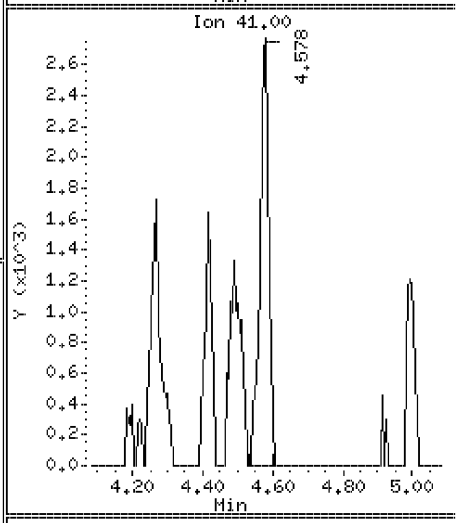


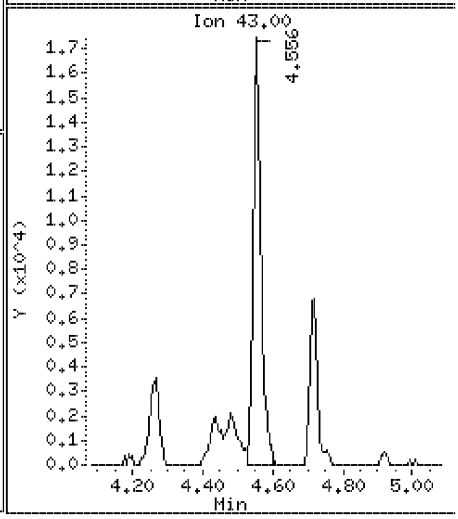












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

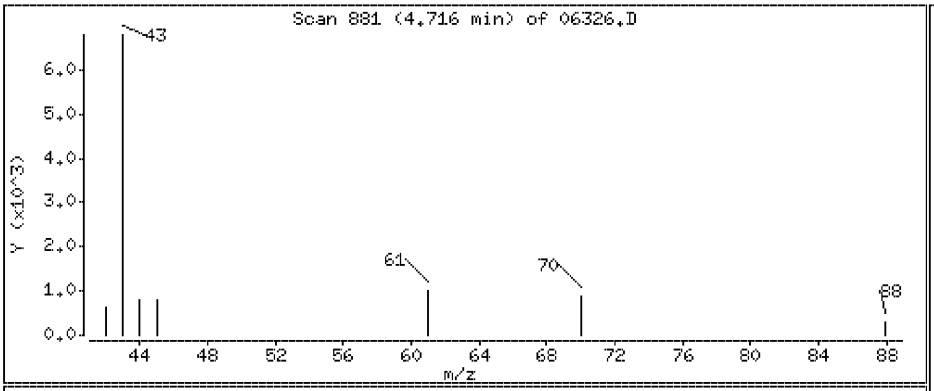
Operator: MJL

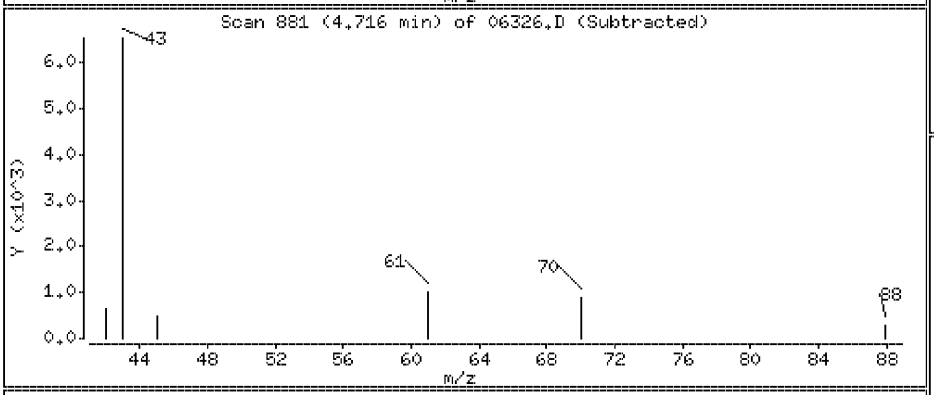
Column phase: J&W DB-5

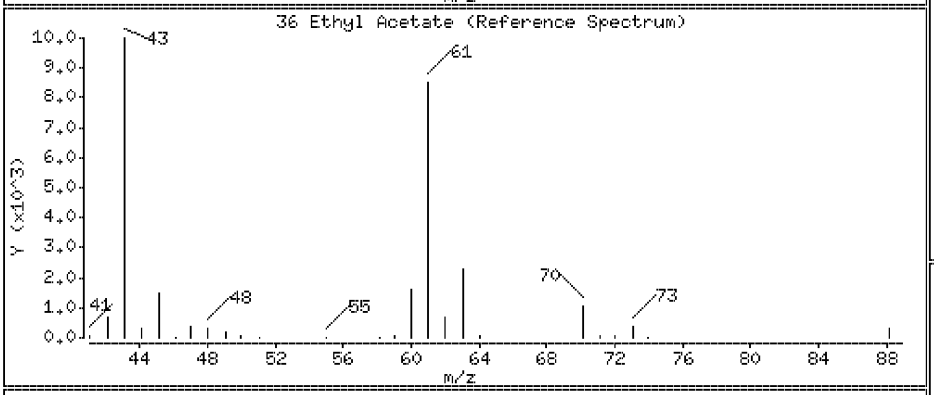
Column diameter: 0.32

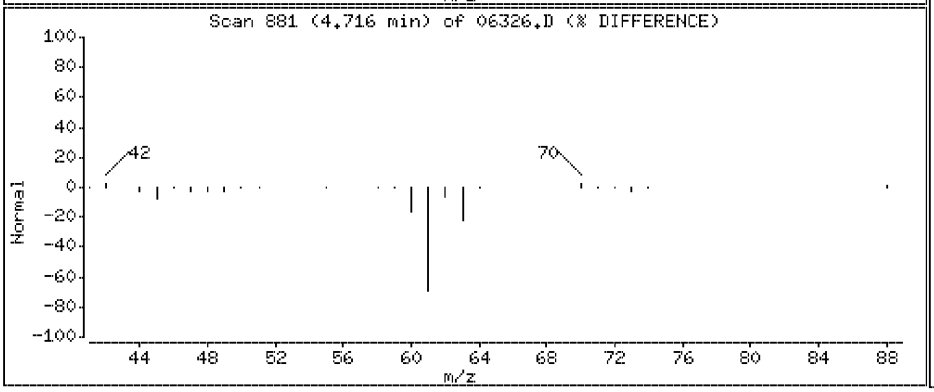
36 Ethyl Acetate

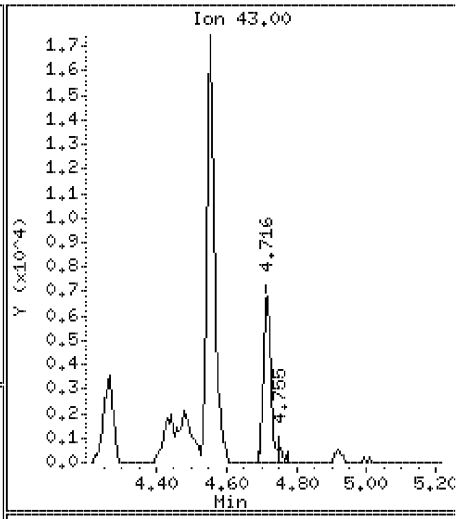
Concentration: 0.685 ppbv

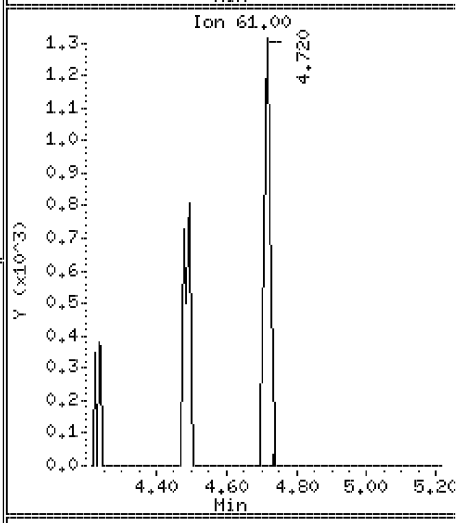


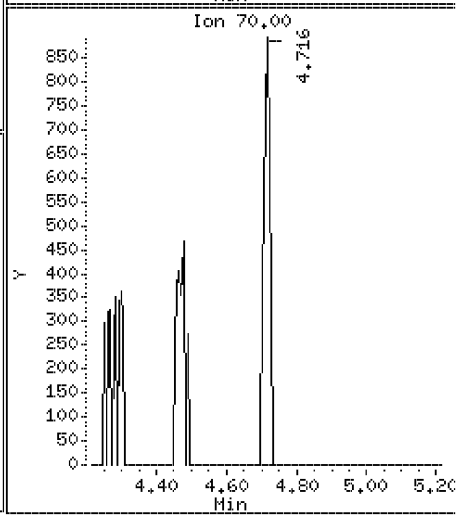












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

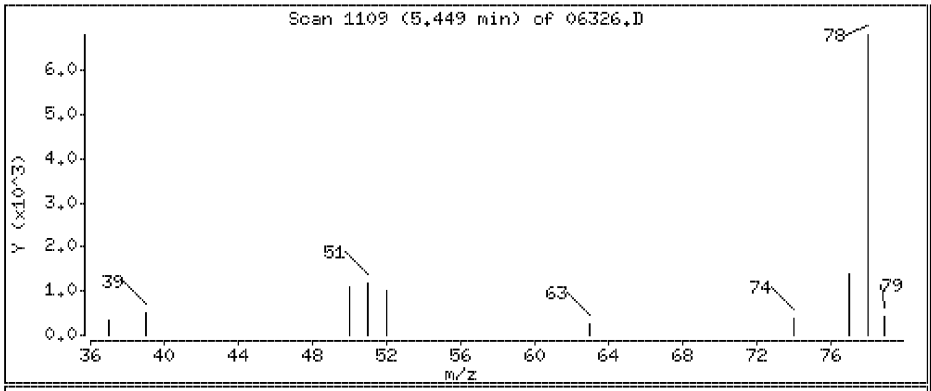
Operator: MJL

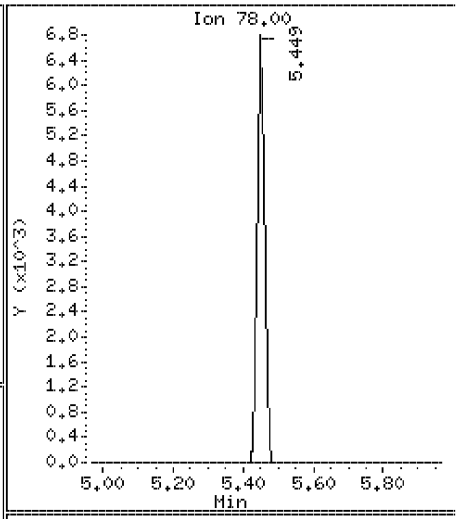
Column phase: J&W DB-5

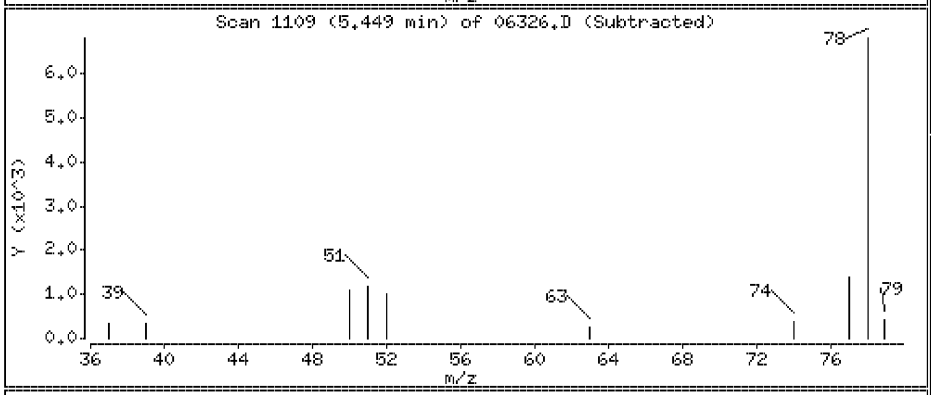
Column diameter: 0.32

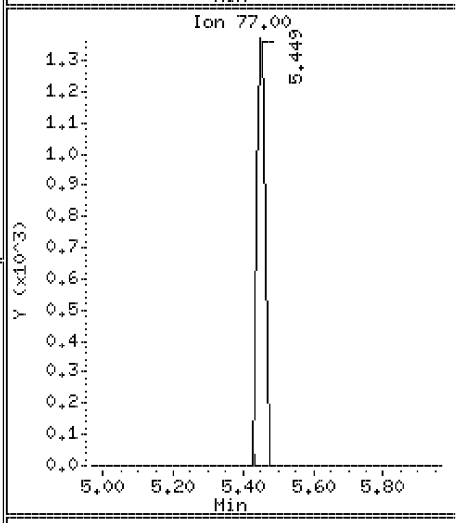
43 Benzene

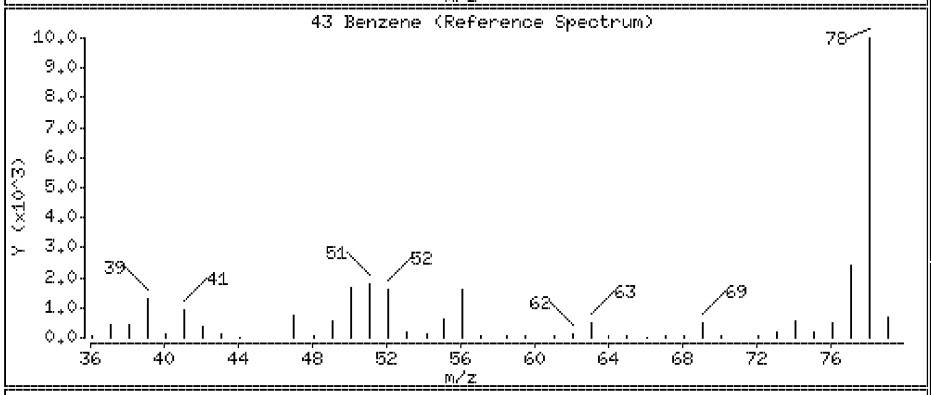
Concentration: 0.422 ppbv

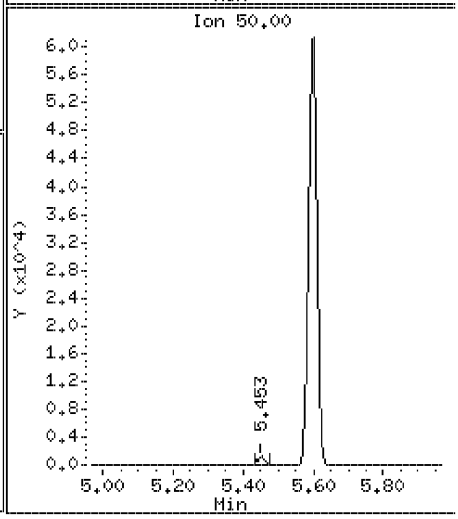


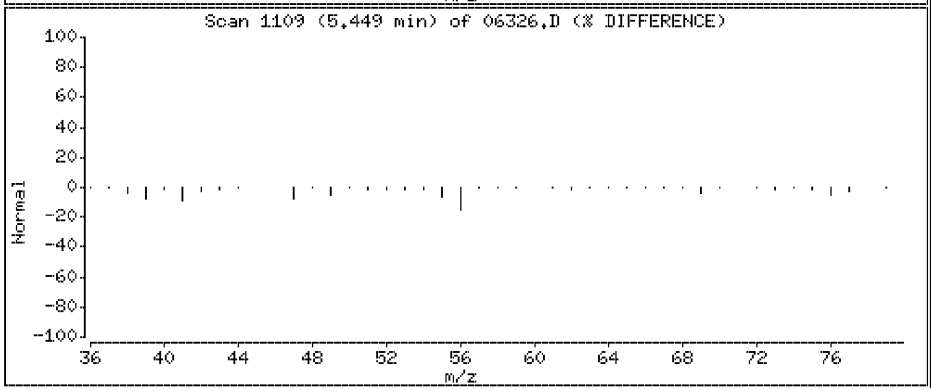












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

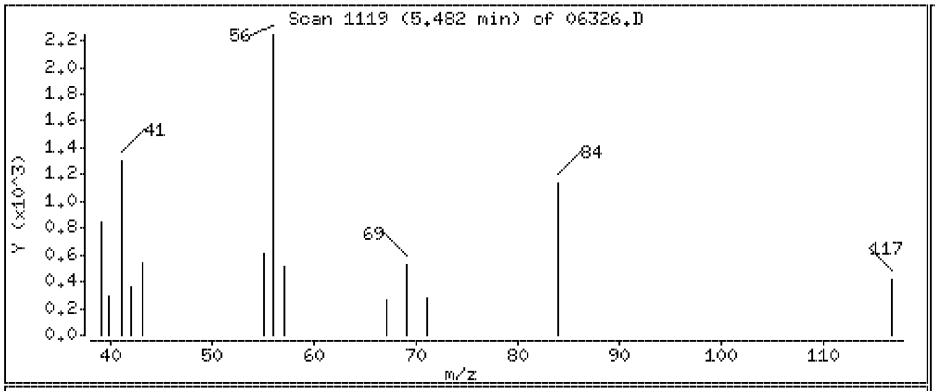
Operator: MJL

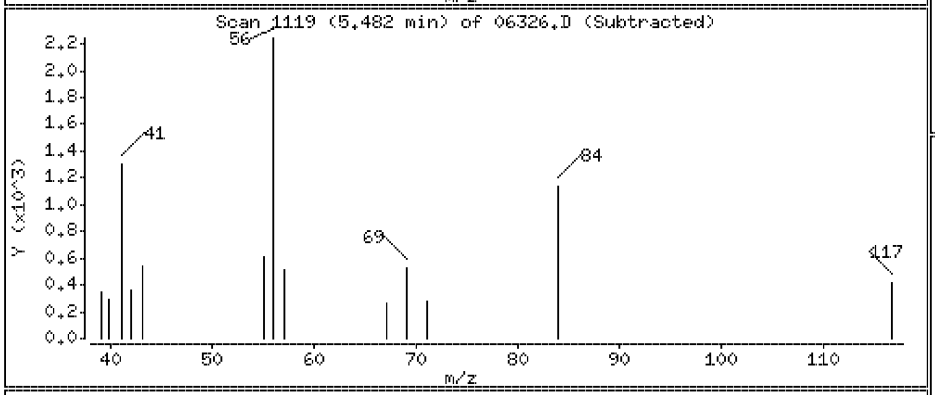
Column phase: J&W DB-5

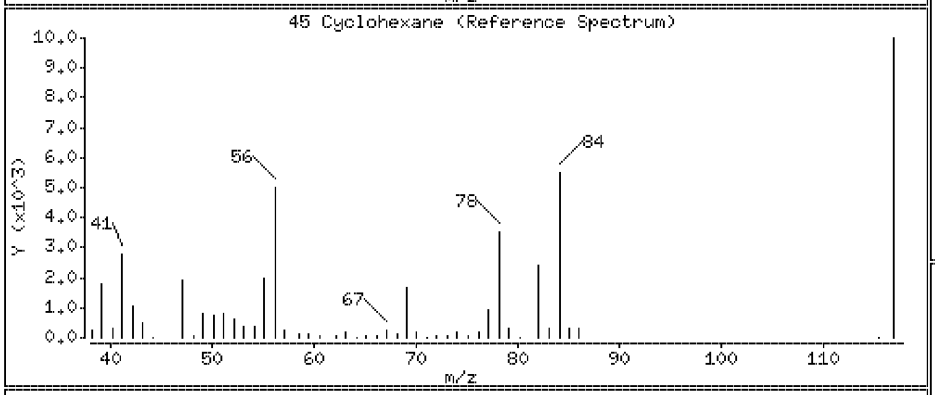
Column diameter: 0.32

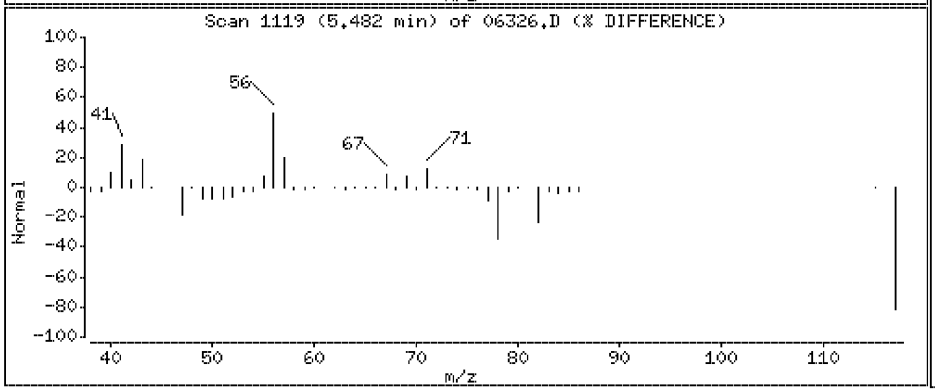
45 Cyclohexane

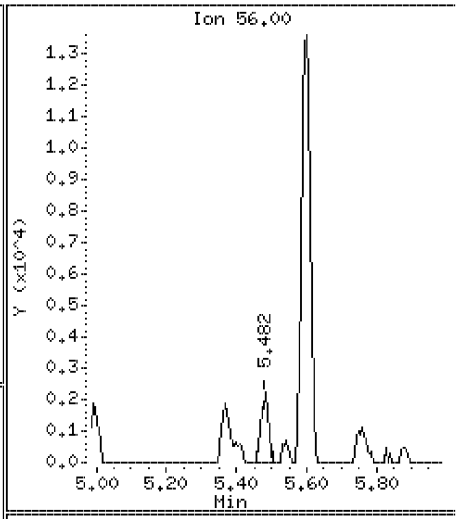
Concentration: 0.280 ppbv

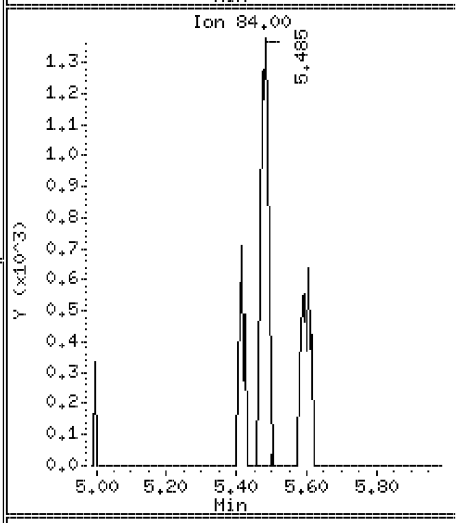


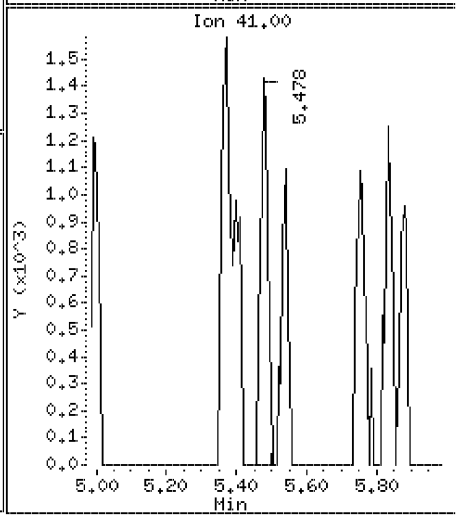












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

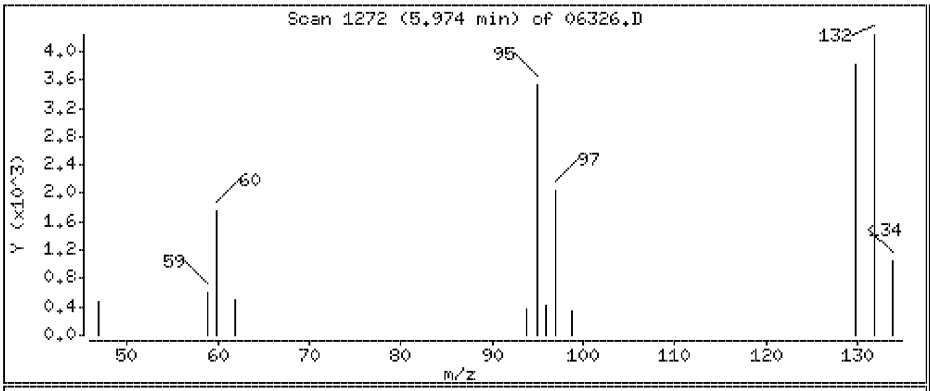
Operator: MJL

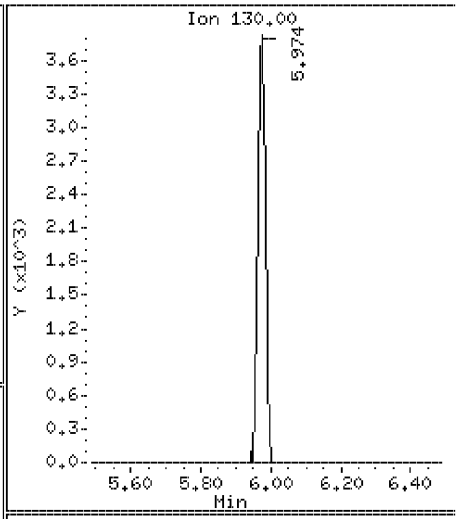
Column phase: J&W DB-5

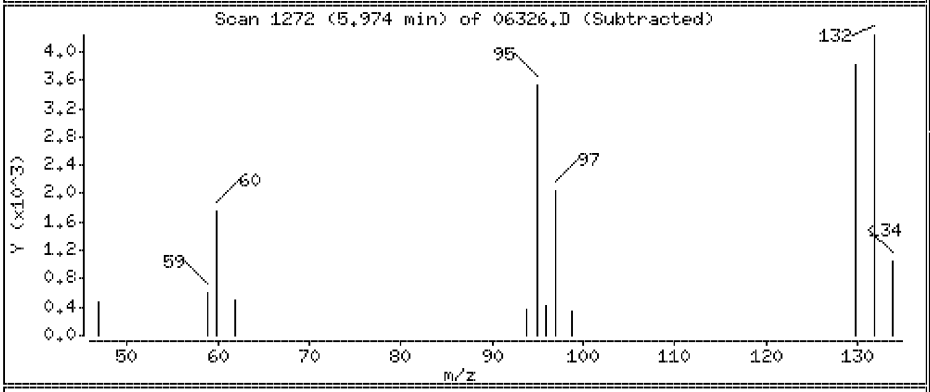
Column diameter: 0.32

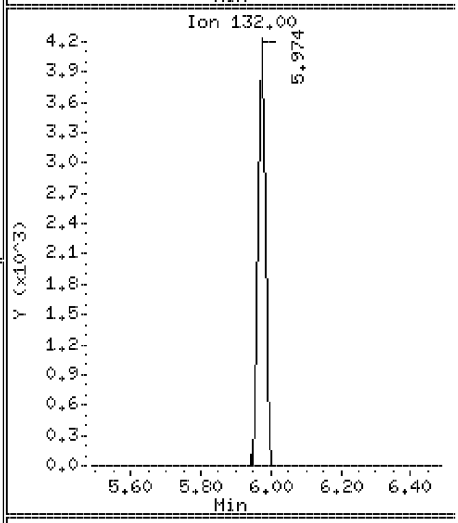
51 Trichloroethene

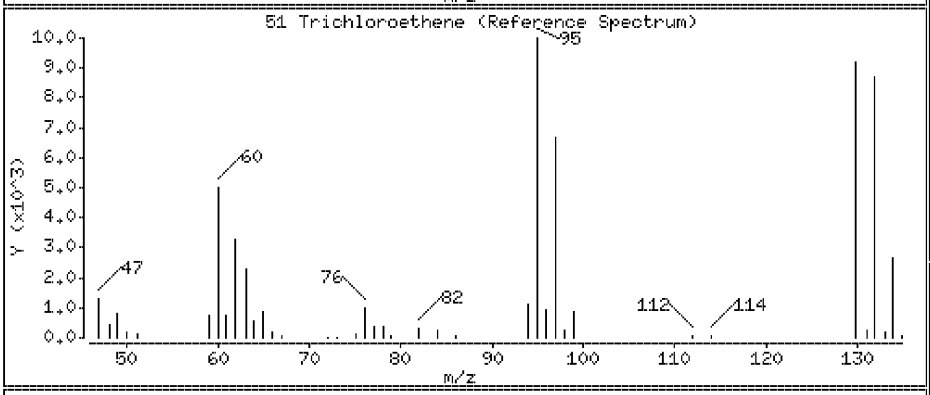
Concentration: 0.488 ppbv

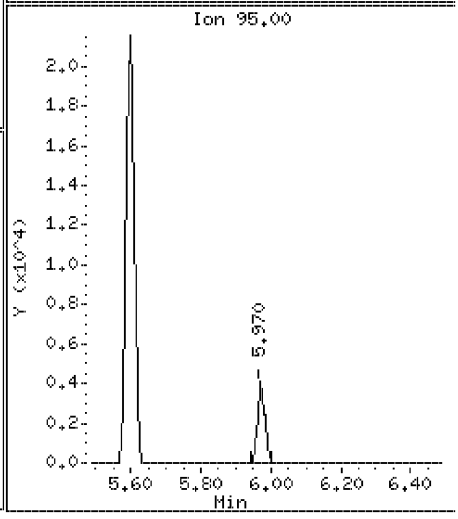


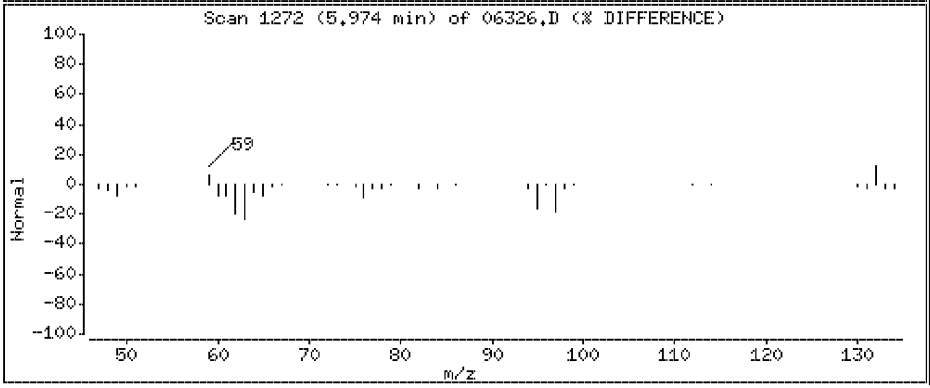












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

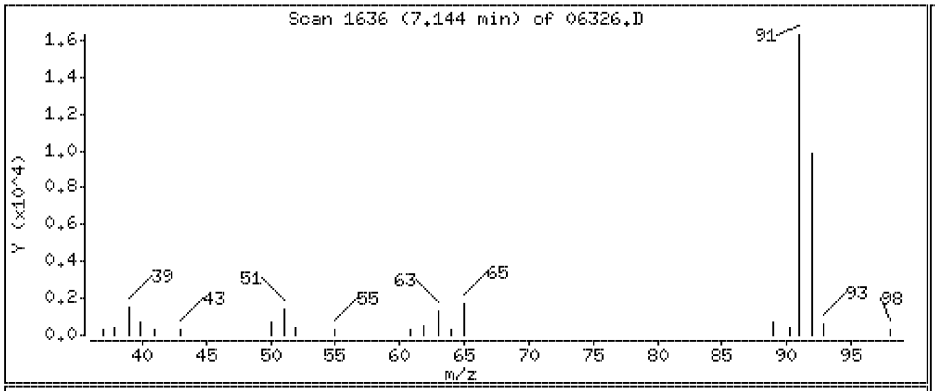
Operator: MJL

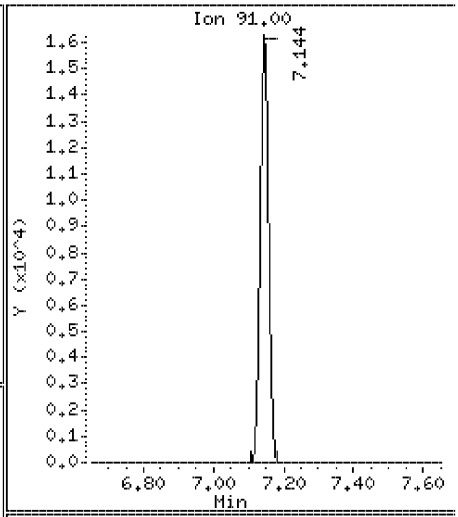
Column phase: J&W DB-5

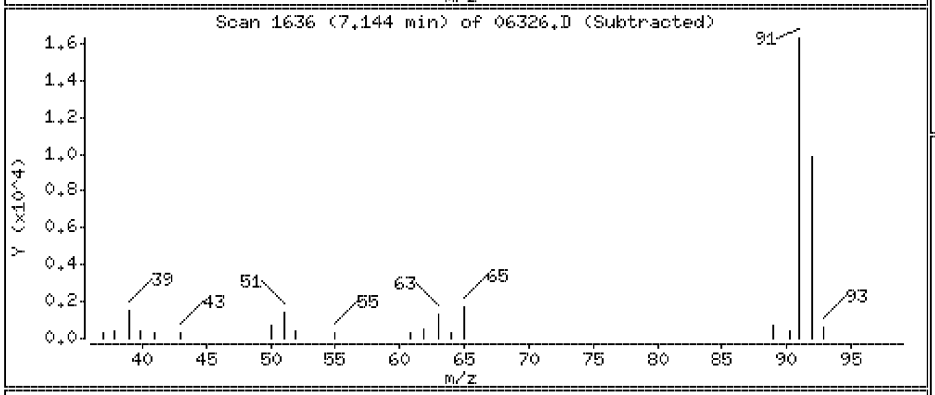
Column diameter: 0.32

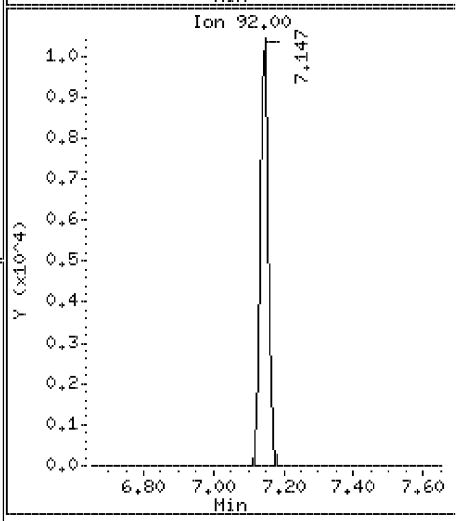
61 Toluene

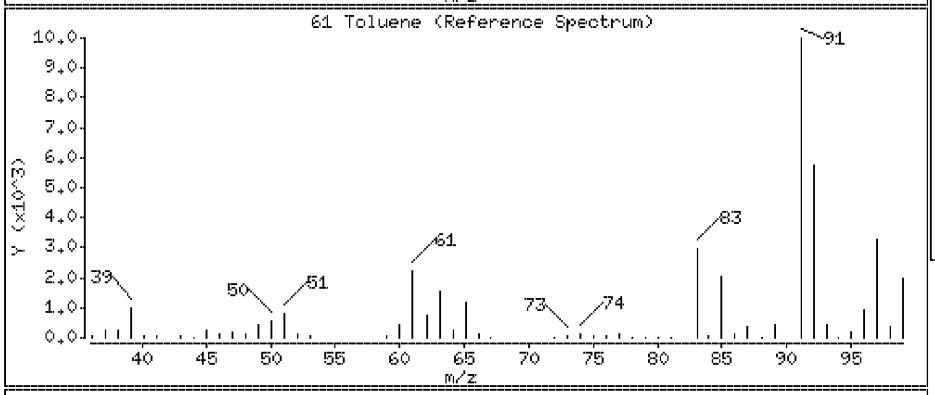
Concentration: 0.930 ppbv

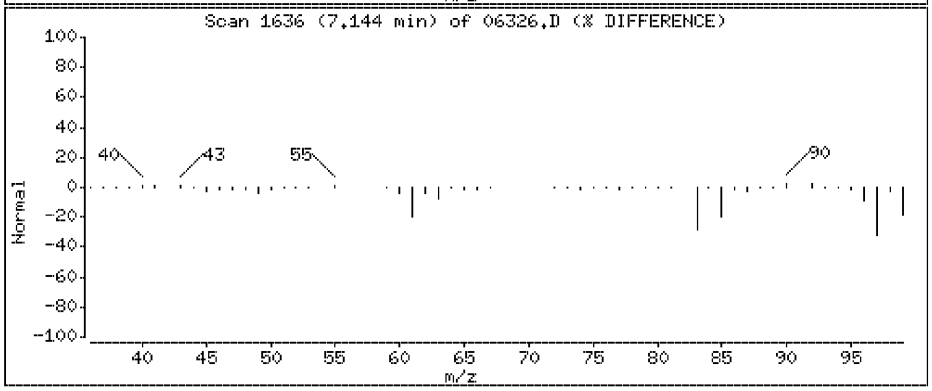












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

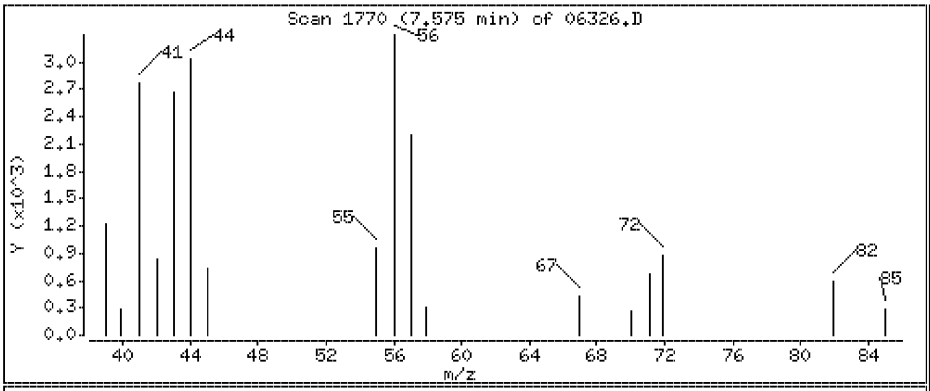
Operator: MJL

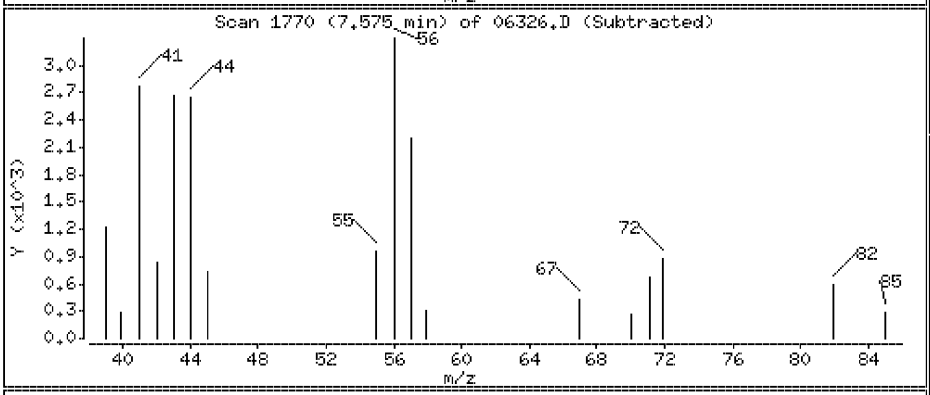
Column phase: J&W DB-5

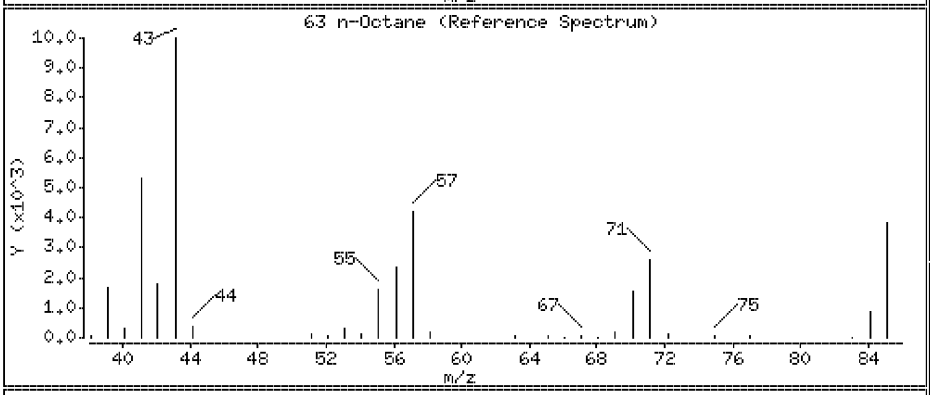
Column diameter: 0.32

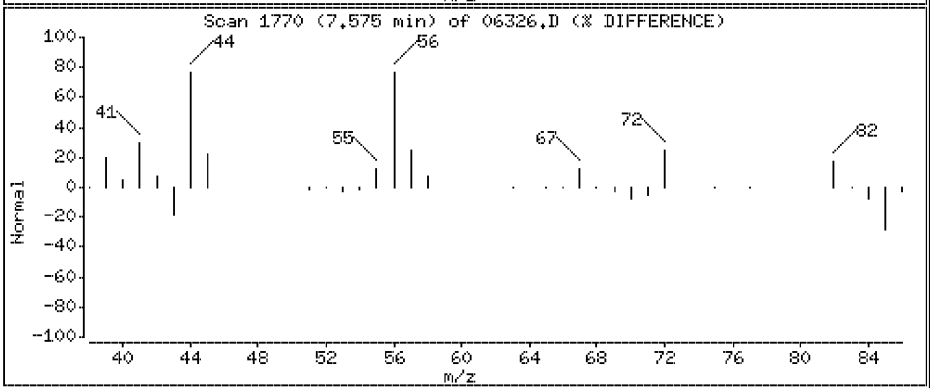
63 n-Octane

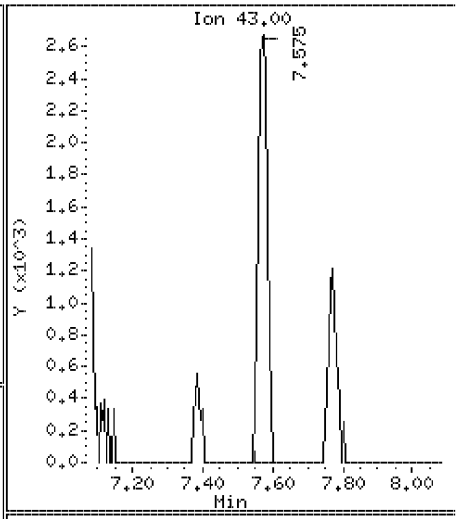
Concentration: 0.312 ppbv

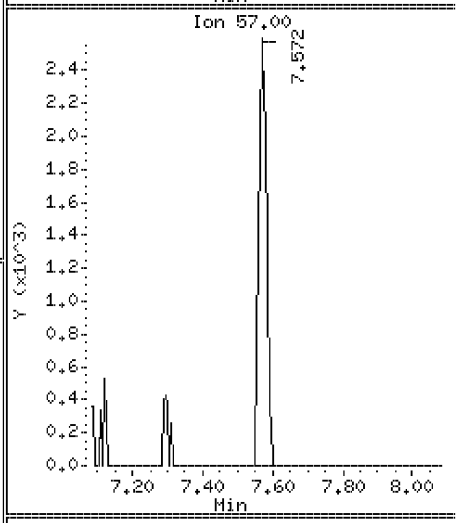


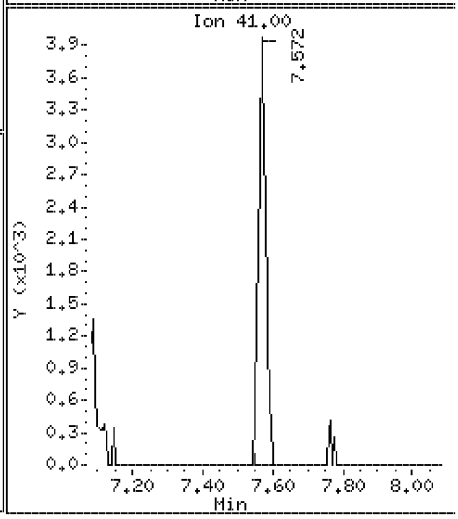












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

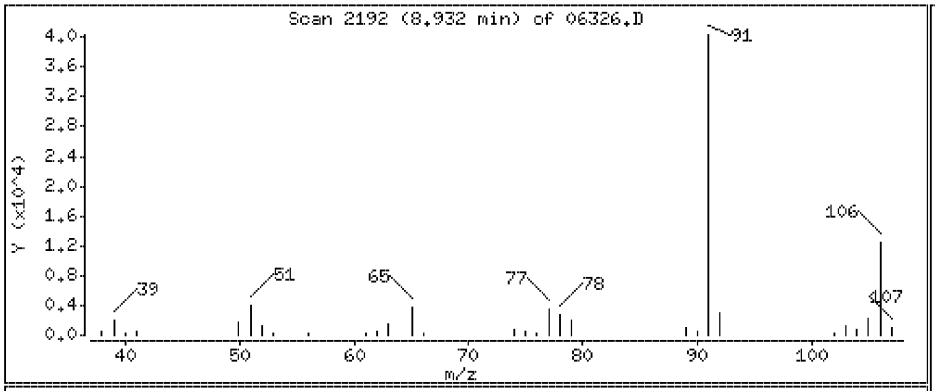
Operator: MJL

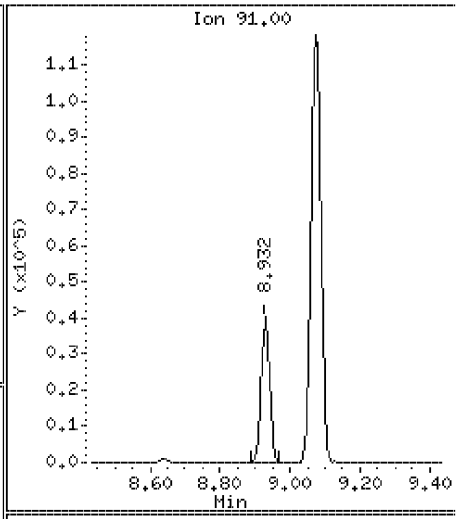
Column phase: J&W DB-5

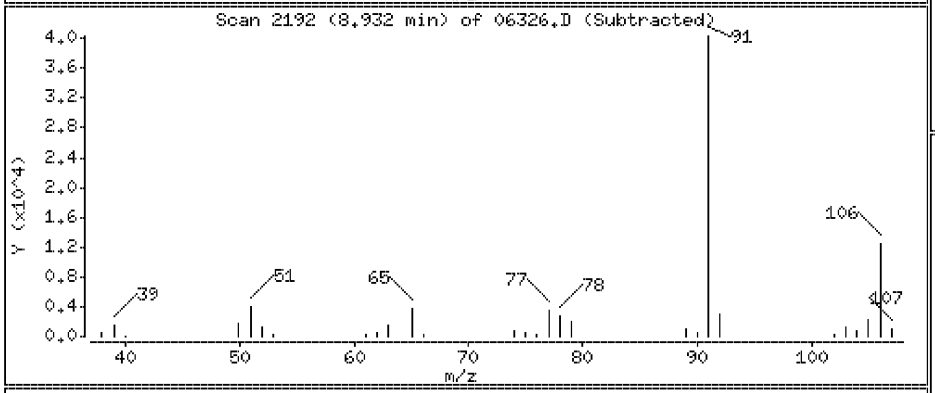
Column diameter: 0.32

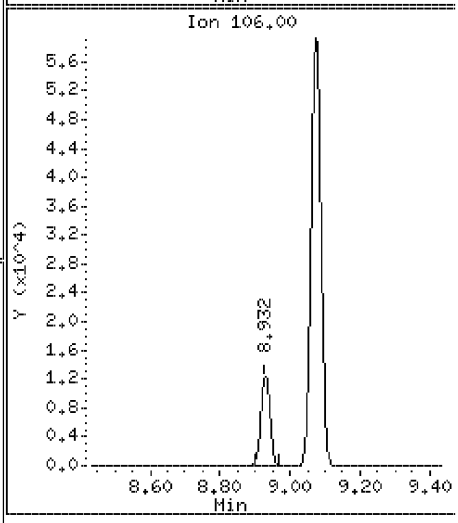
69 Ethyl Benzene

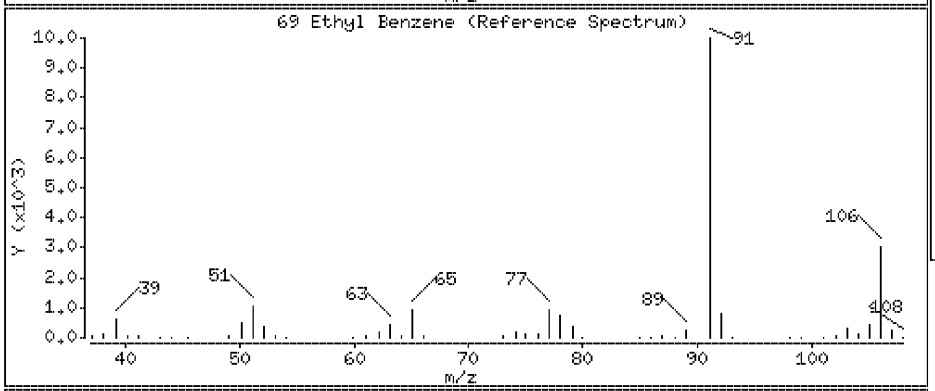
Concentration: 1.97 ppbv

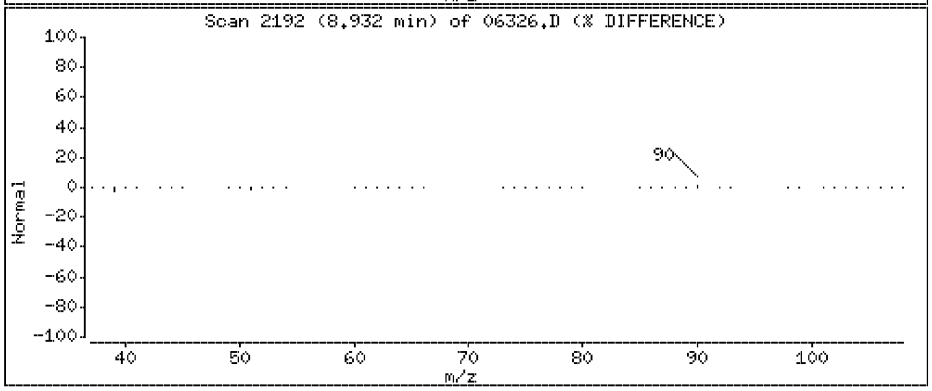












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

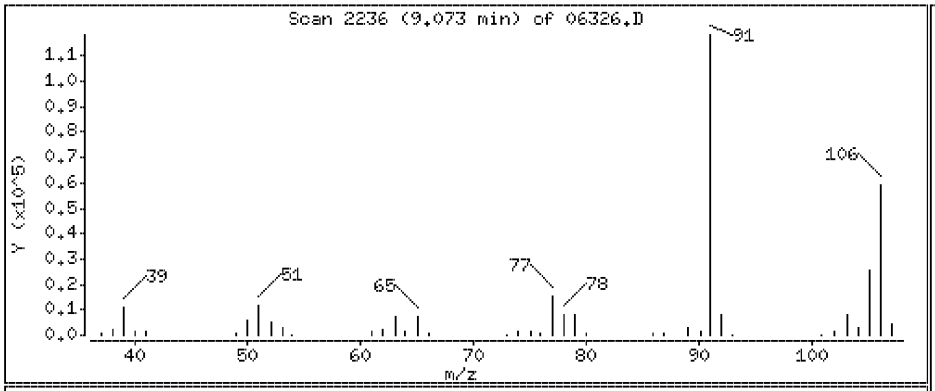
Operator: MJL

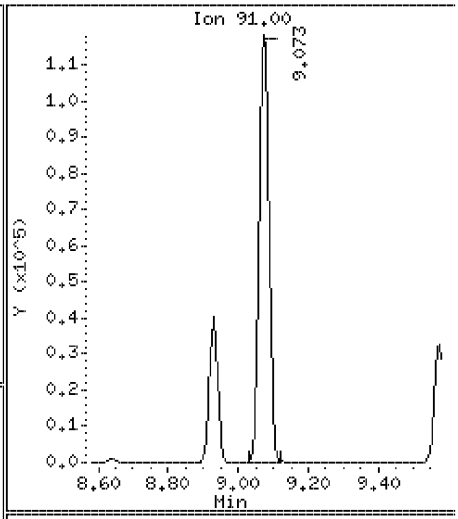
Column phase: J&W DB-5

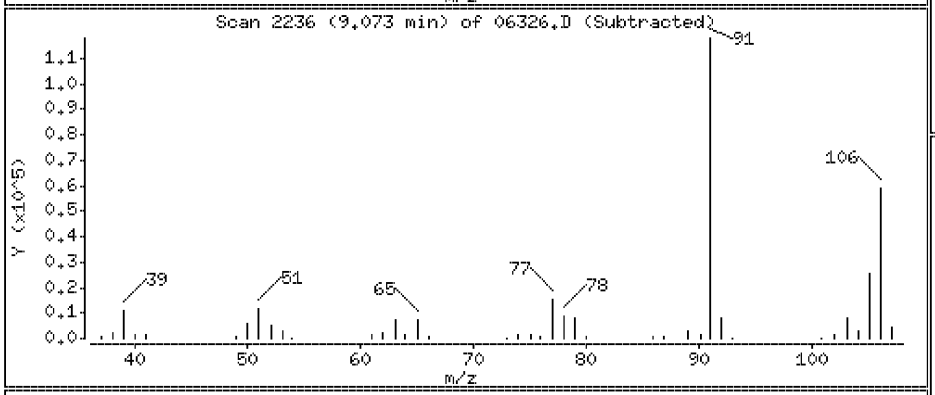
Column diameter: 0.32

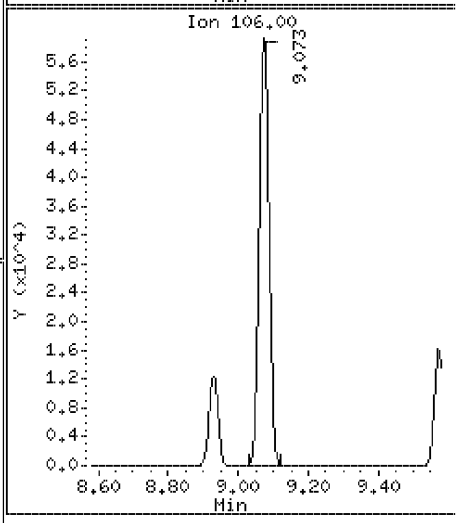
70 m&p-Xylene

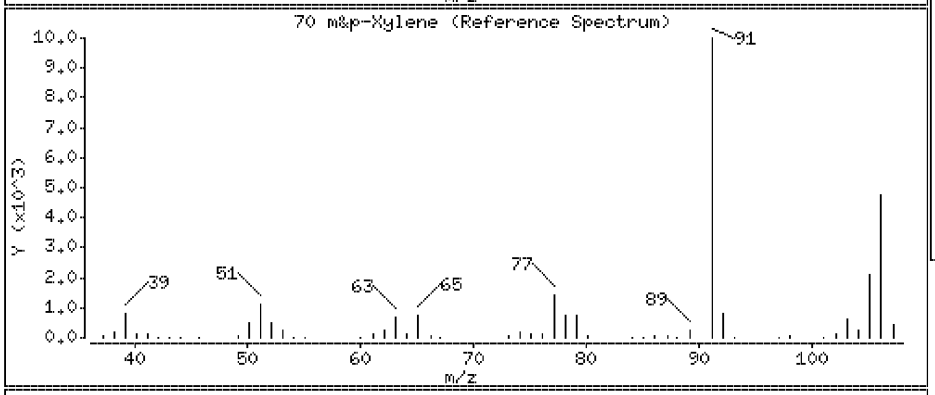
Concentration: 8.62 ppbv

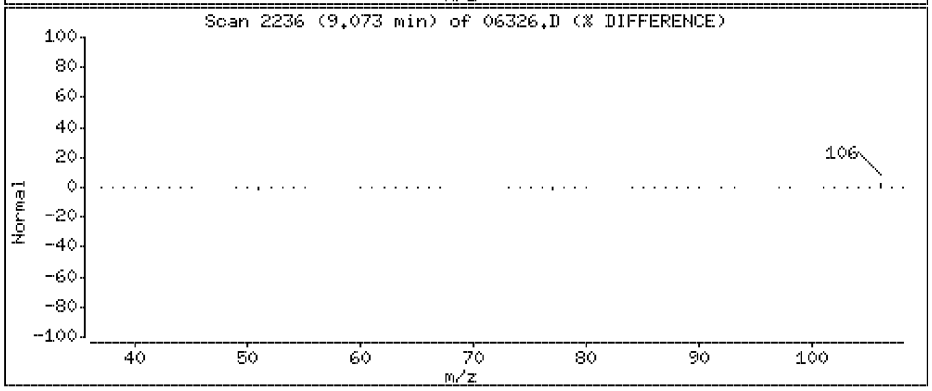












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

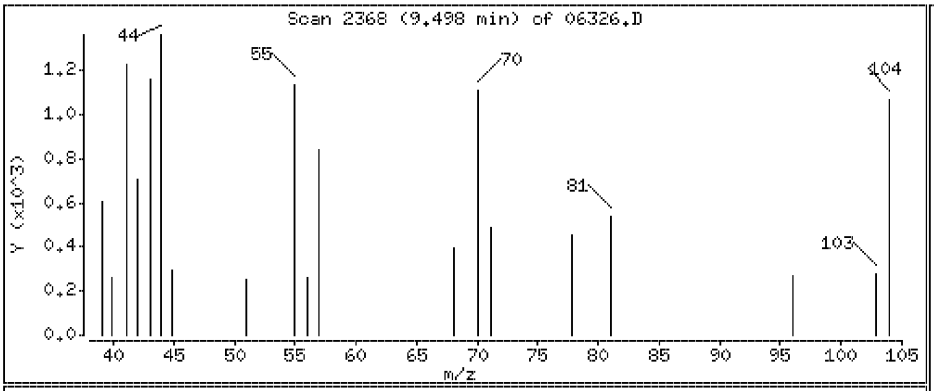
Operator: MJL

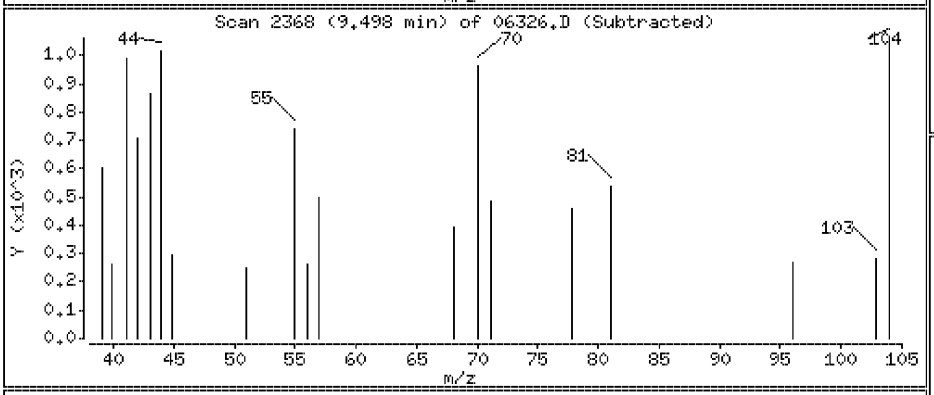
Column phase: J&W DB-5

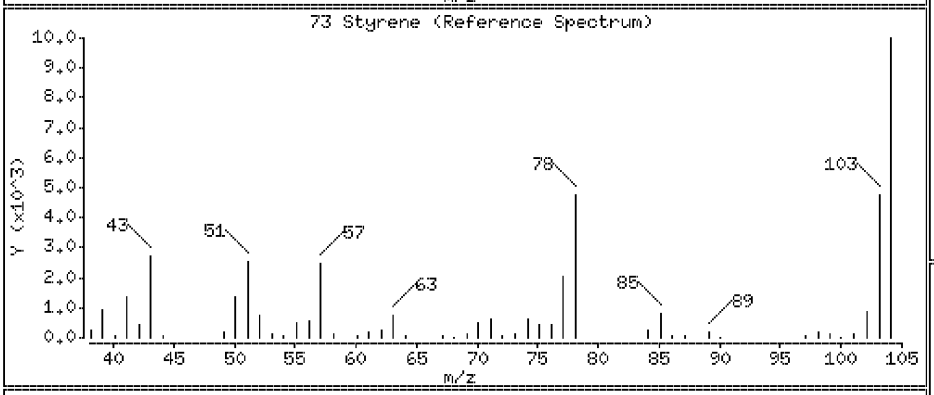
Column diameter: 0.32

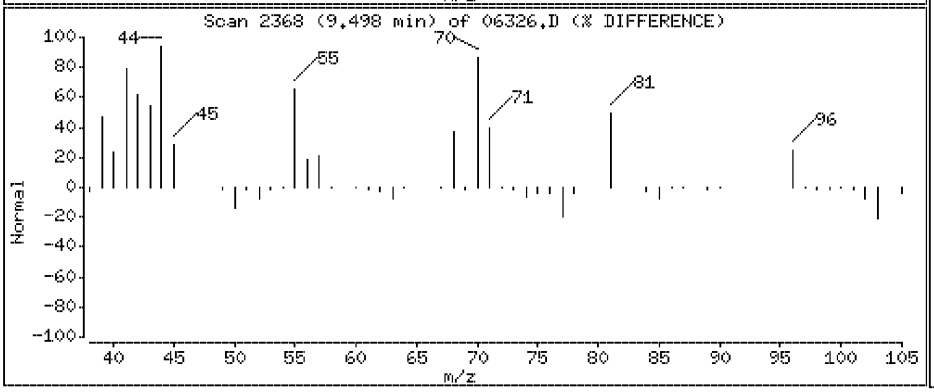
73 Styrene

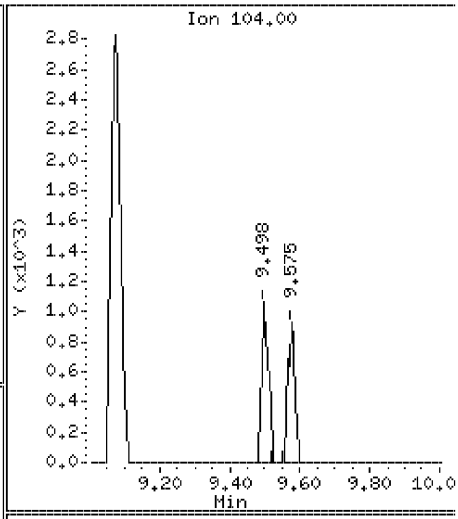
Concentration: 0.194 ppbv

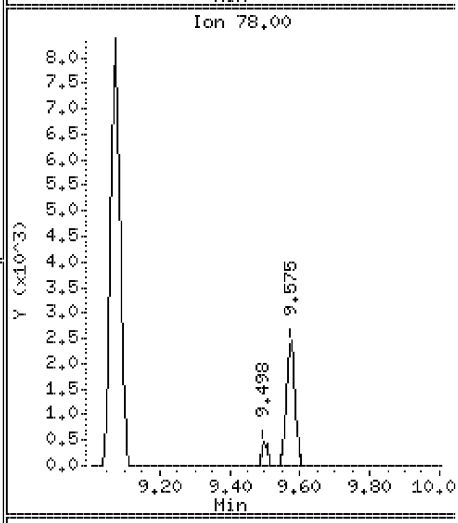


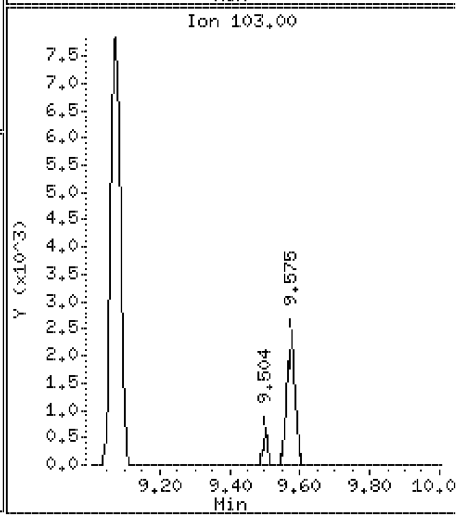












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

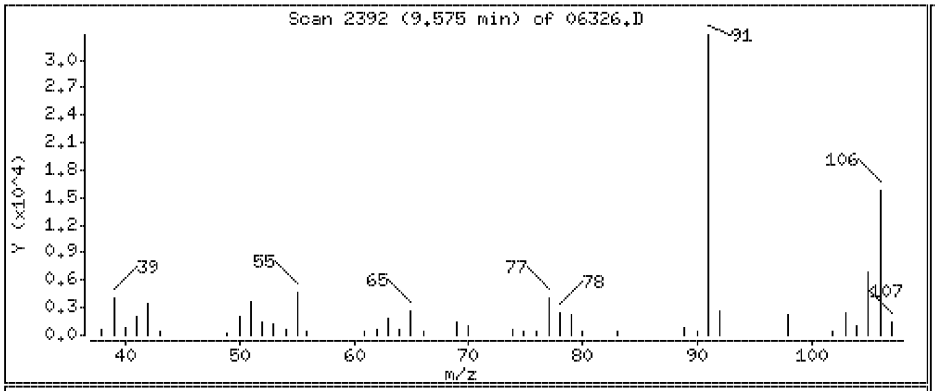
Operator: MJL

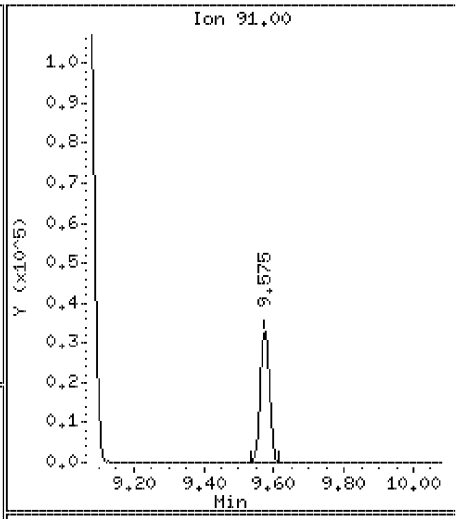
Column phase: J&W DB-5

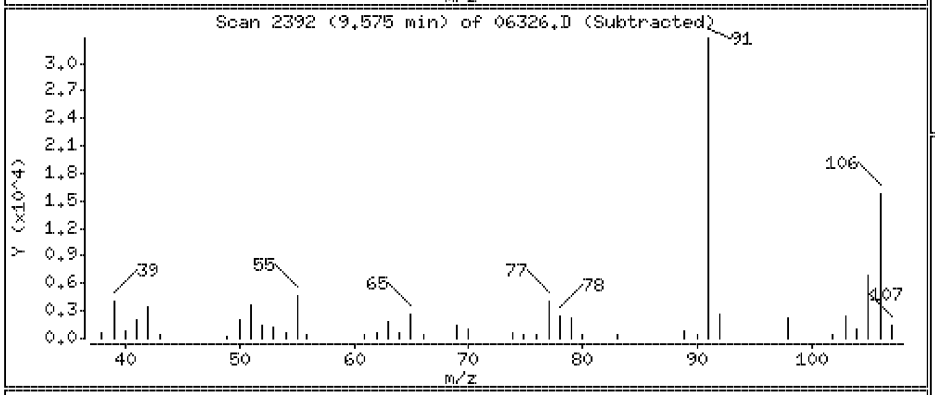
Column diameter: 0.32

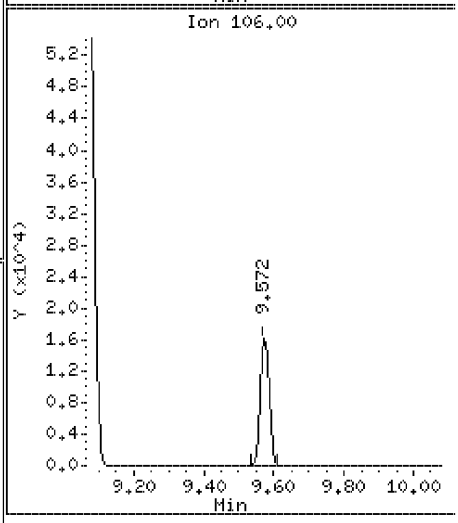
74 o-Xylene

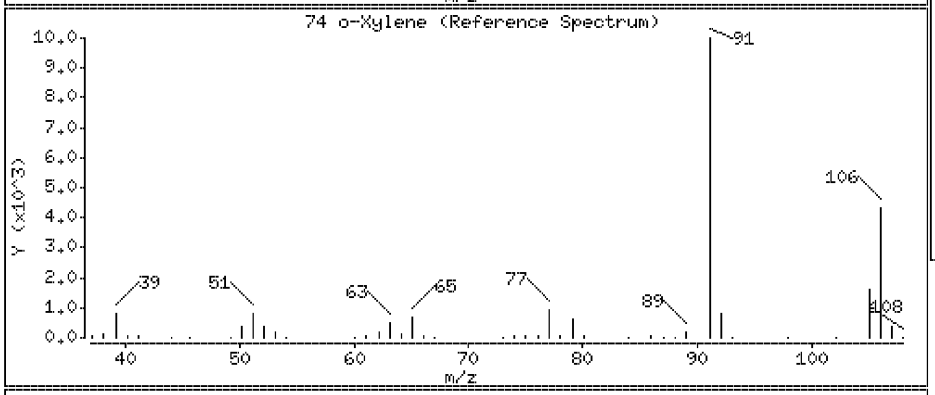
Concentration: 2.19 ppbv

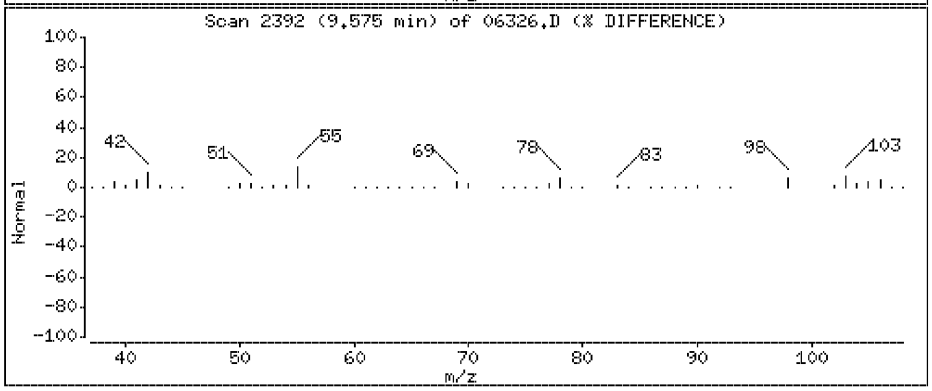












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

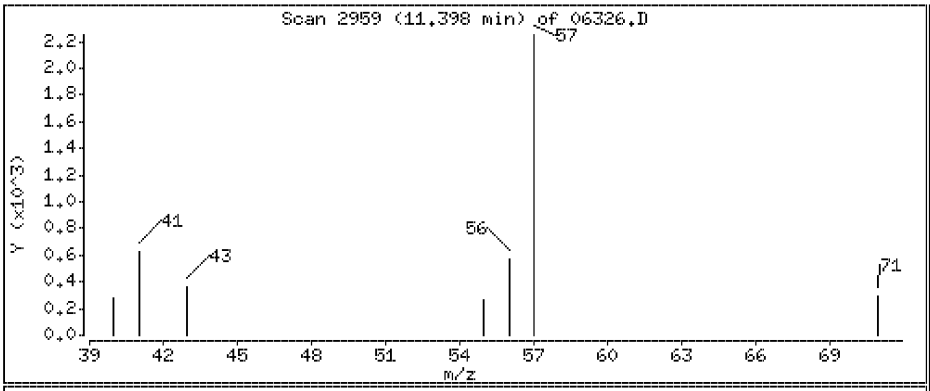
Operator: MJL

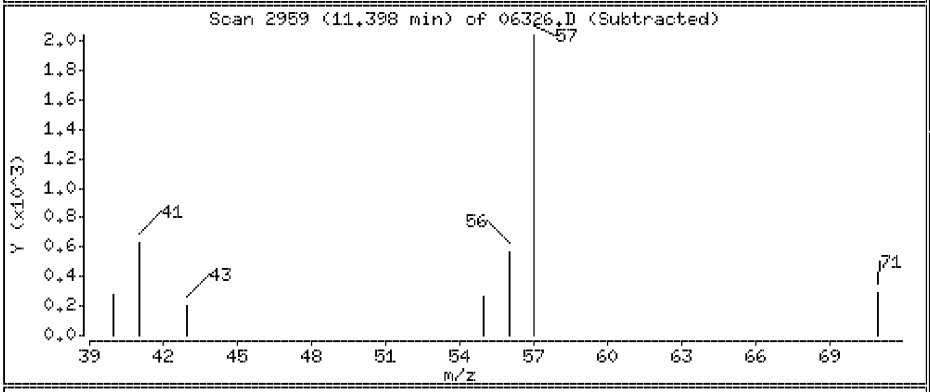
Column phase: J&W DB-5

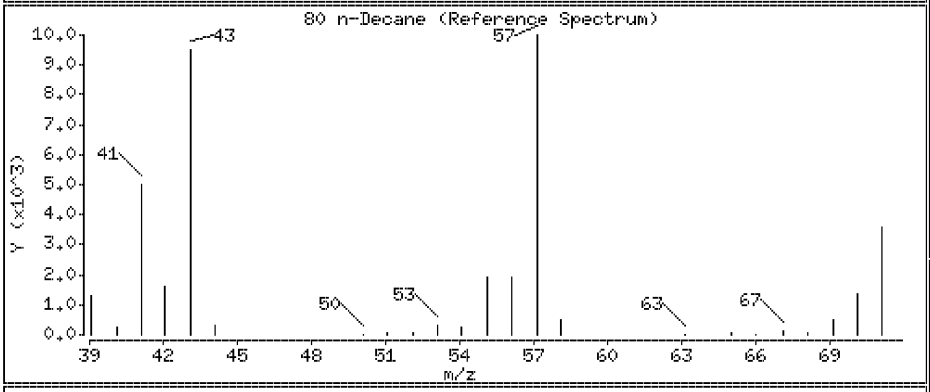
Column diameter: 0.32

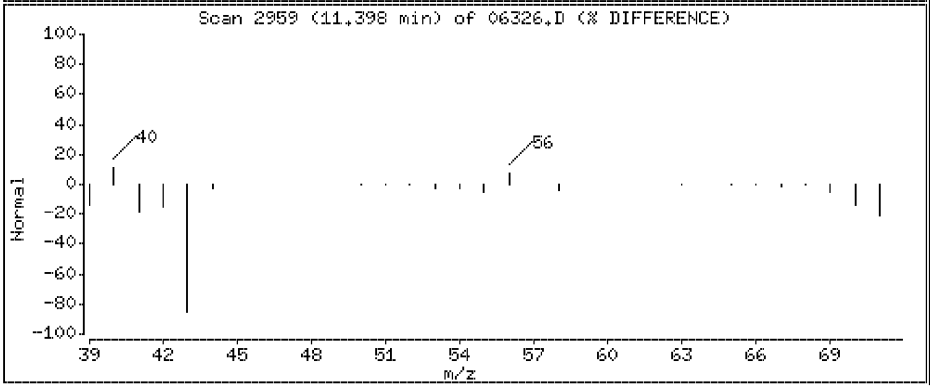
80 n-Decane

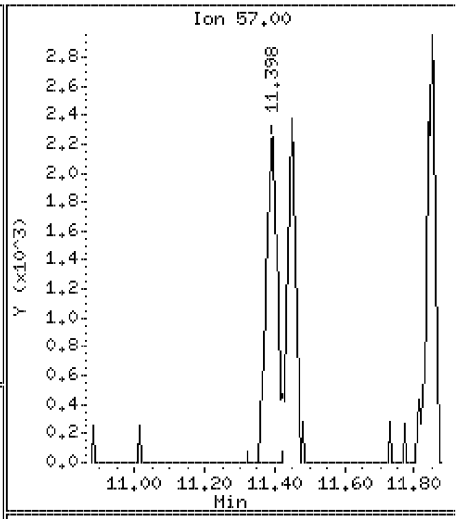
Concentration: 0.705 ppbv

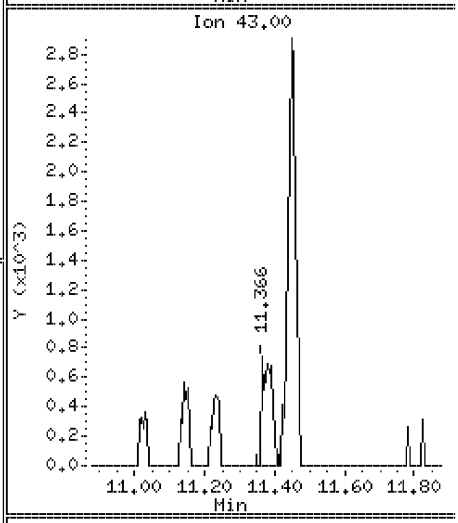


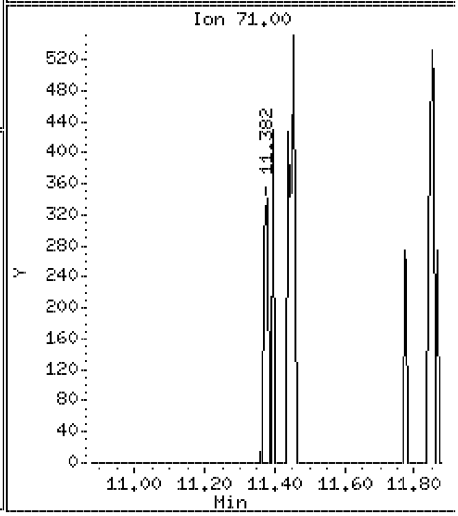












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06326.D

Date : 04-MAR-2017 19:39

Client ID:

Instrument: 10airB.i

Sample Info:

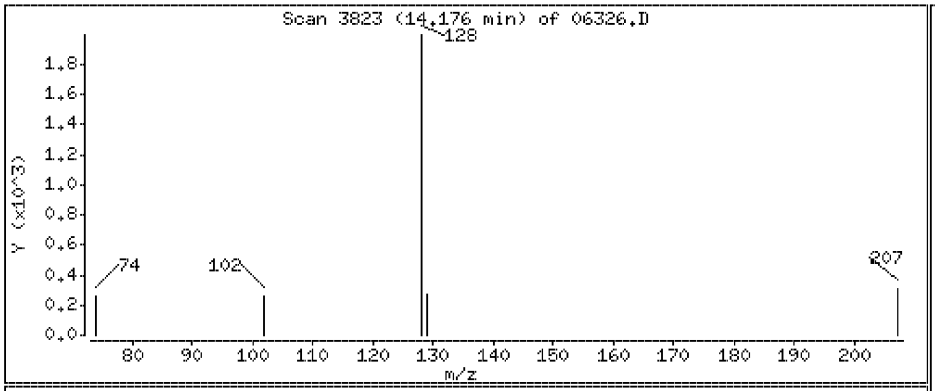
Operator: MJL

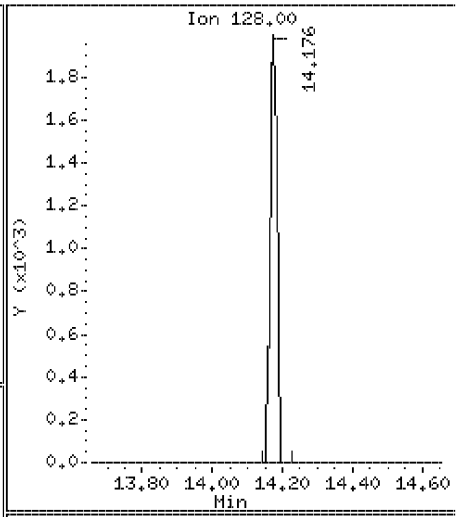
Column phase: J&W DB-5

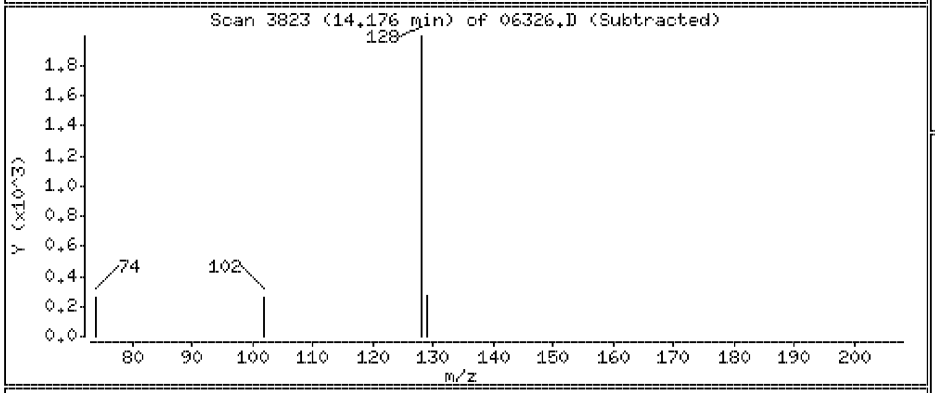
Column diameter: 0.32

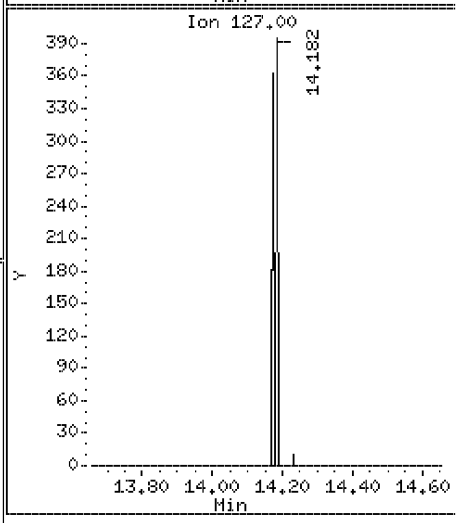
94 Naphthalene

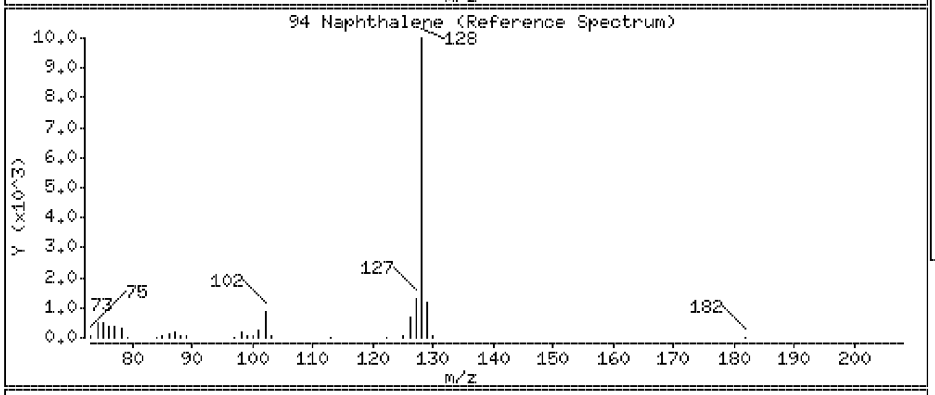
Concentration: 0.757 ppbv

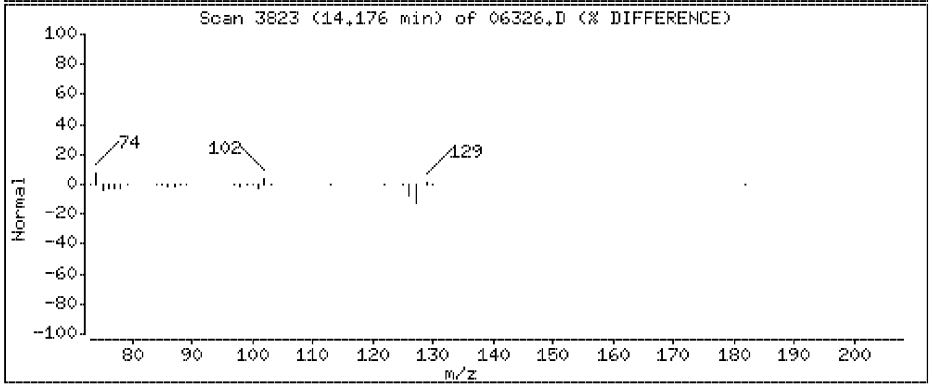






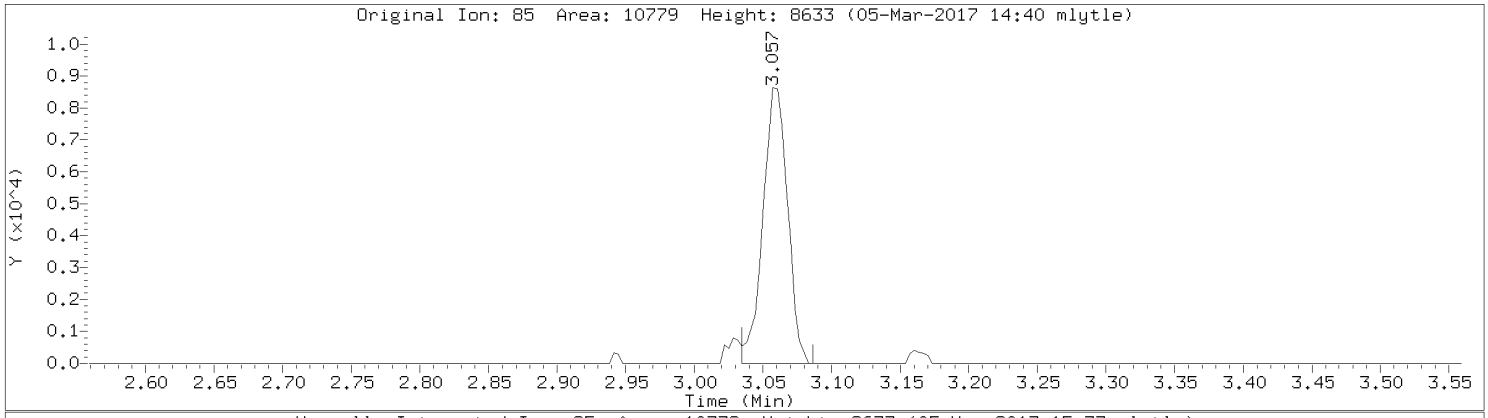


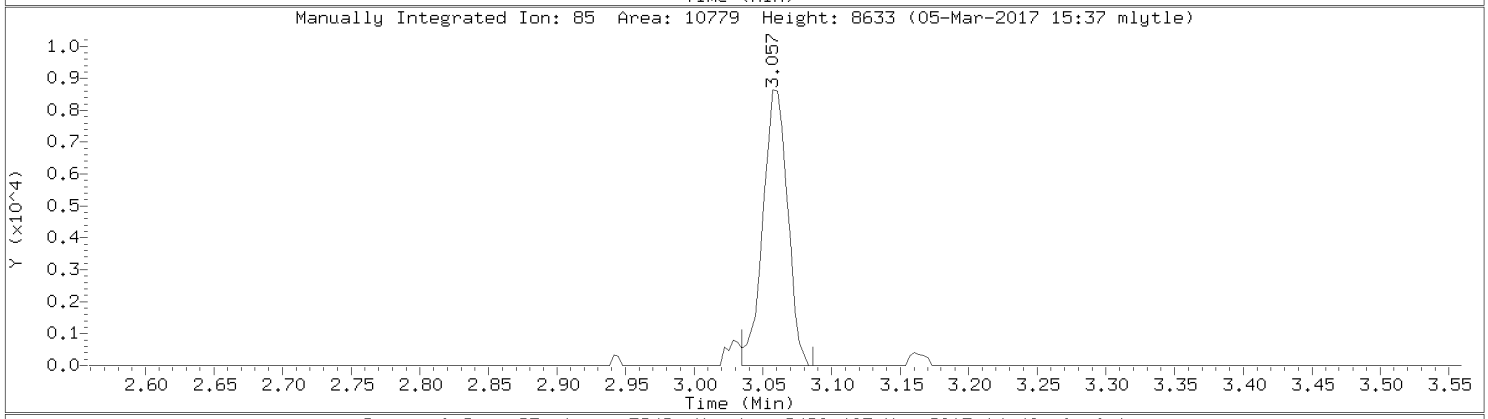


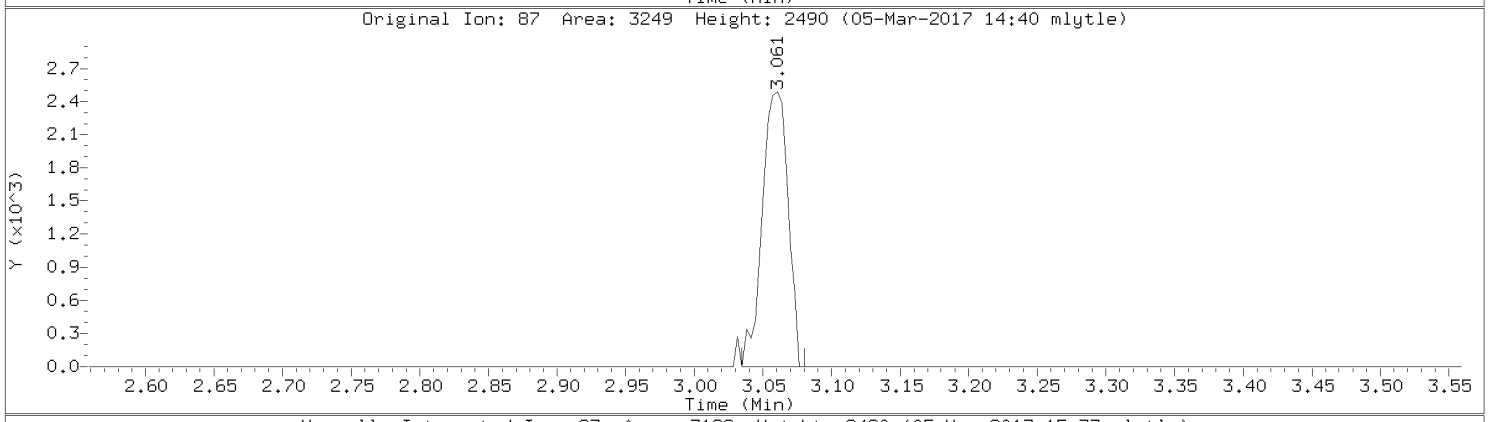


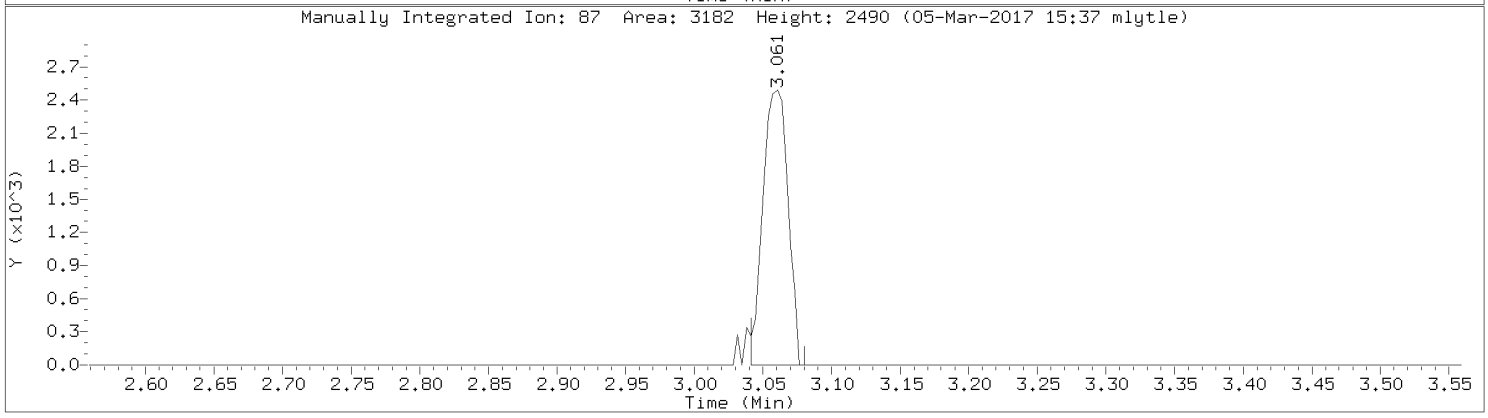
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06326.D
Injection Date: 04-MAR-2017 19:39
Instrument: 10airB.i
Lab Sample ID: 10379929018

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



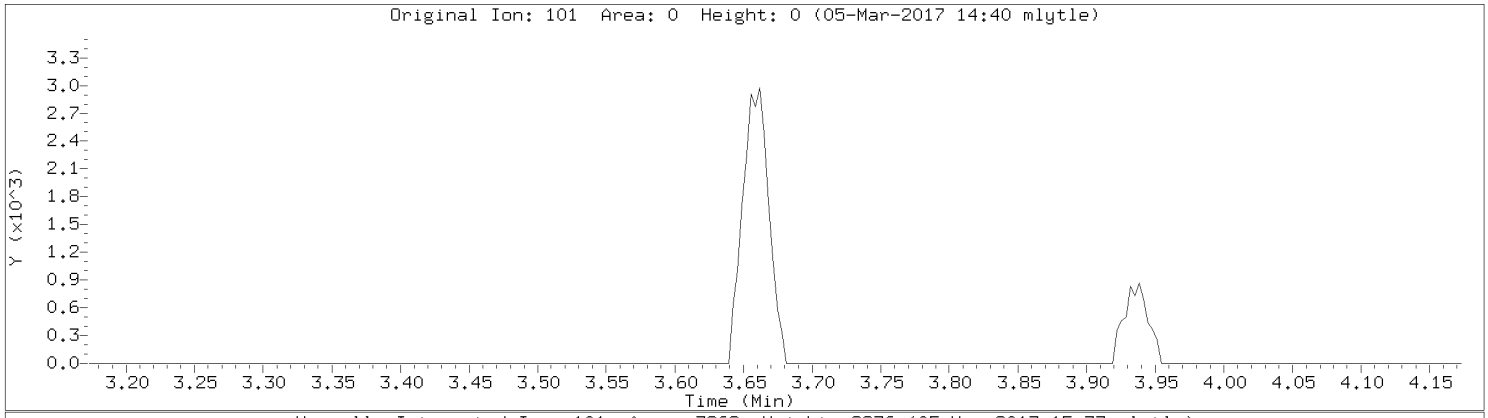


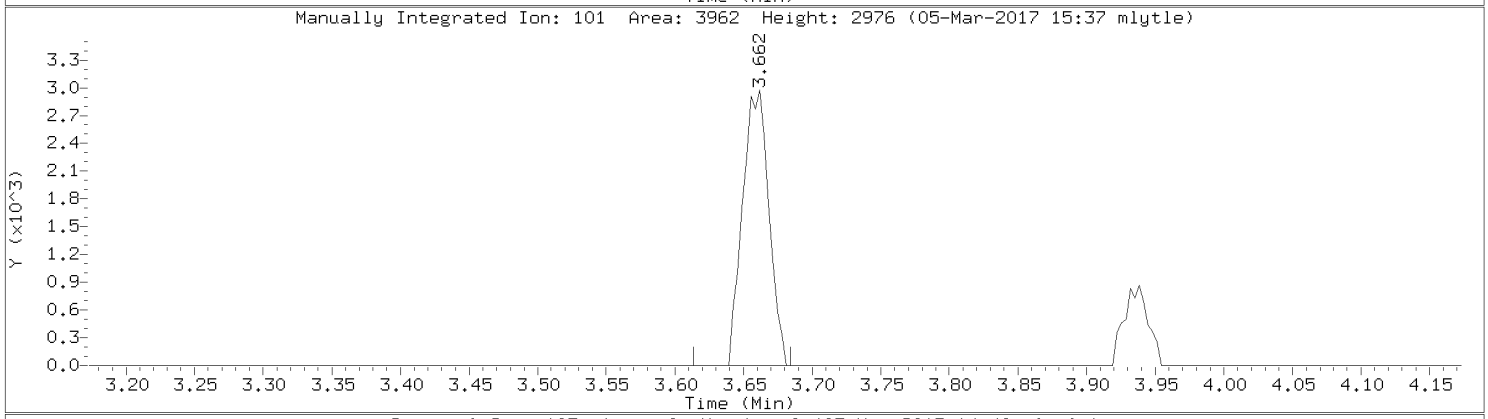


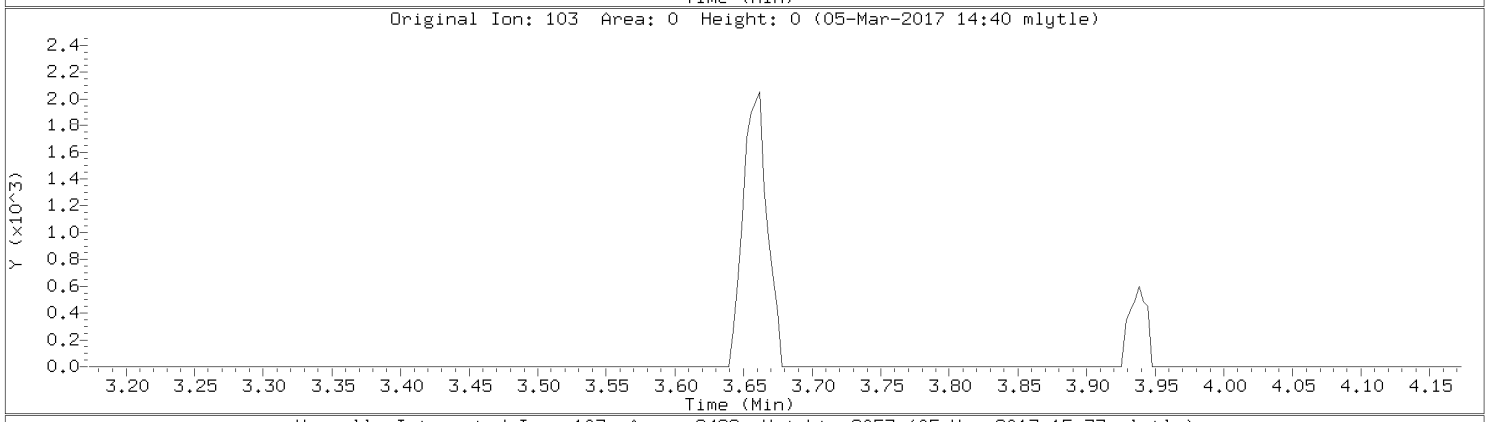


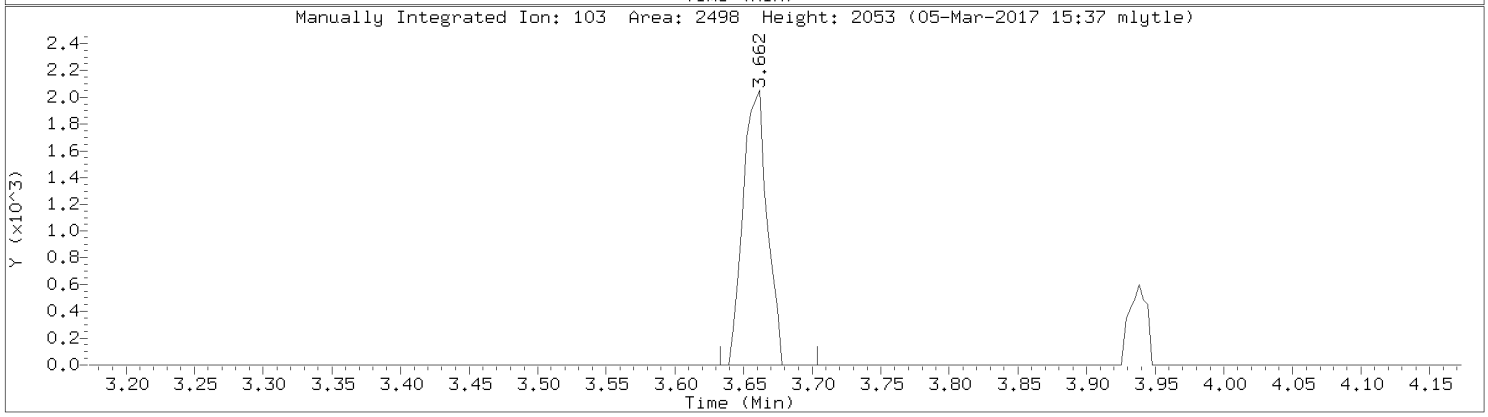
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06326.D
Injection Date: 04-MAR-2017 19:39
Instrument: 10airB.i
Lab Sample ID: 10379929018

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

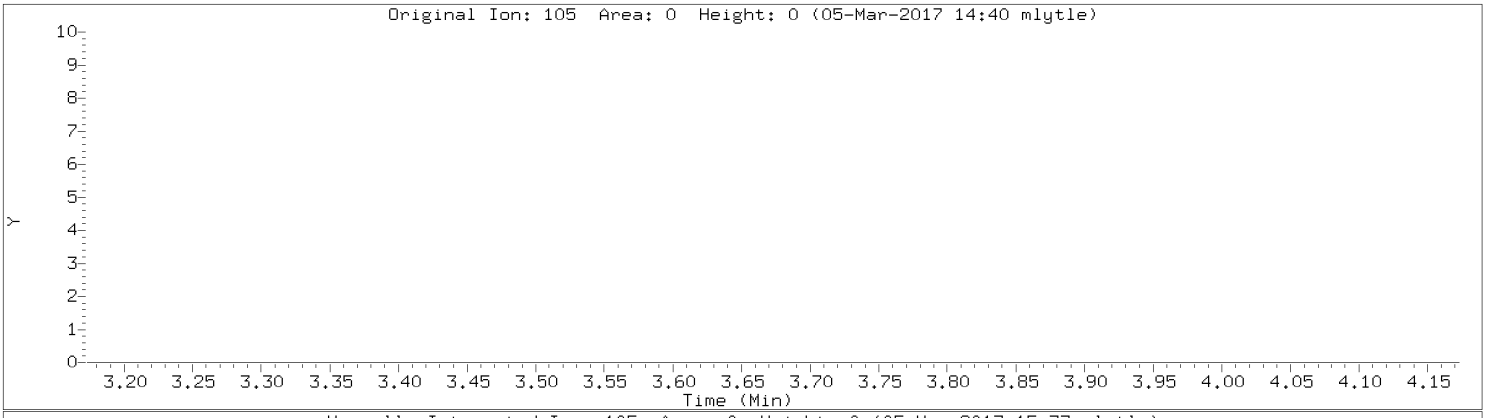


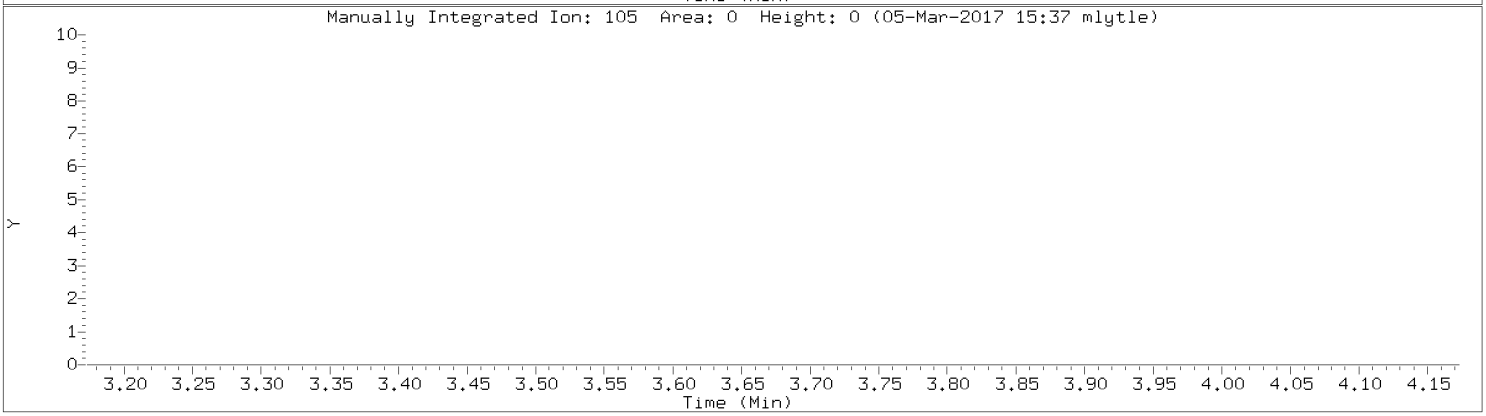






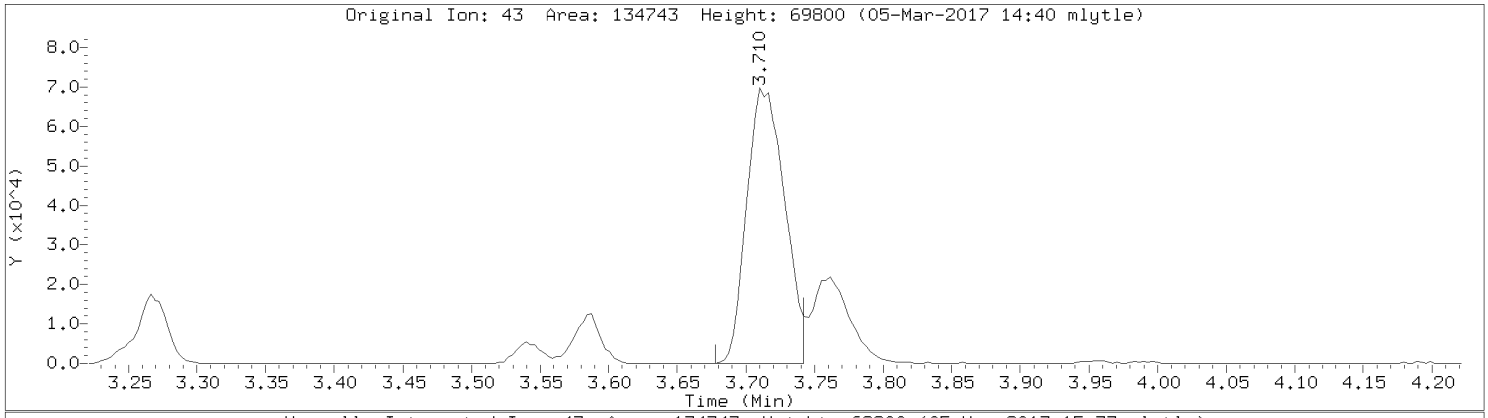
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06326.D
Injection Date: 04-MAR-2017 19:39
Instrument: 10airB.i
Lab Sample ID: 10379929018

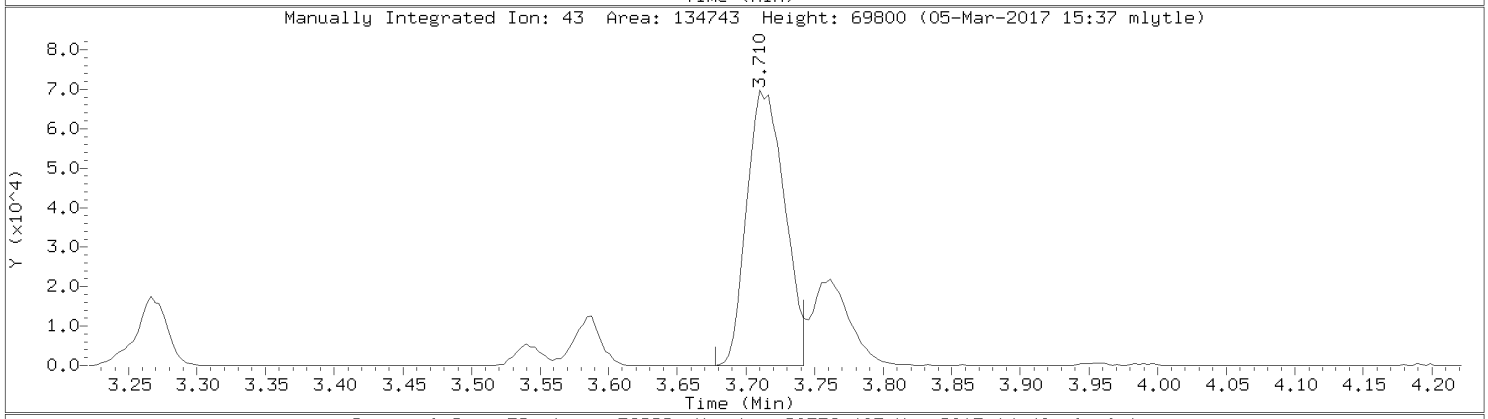


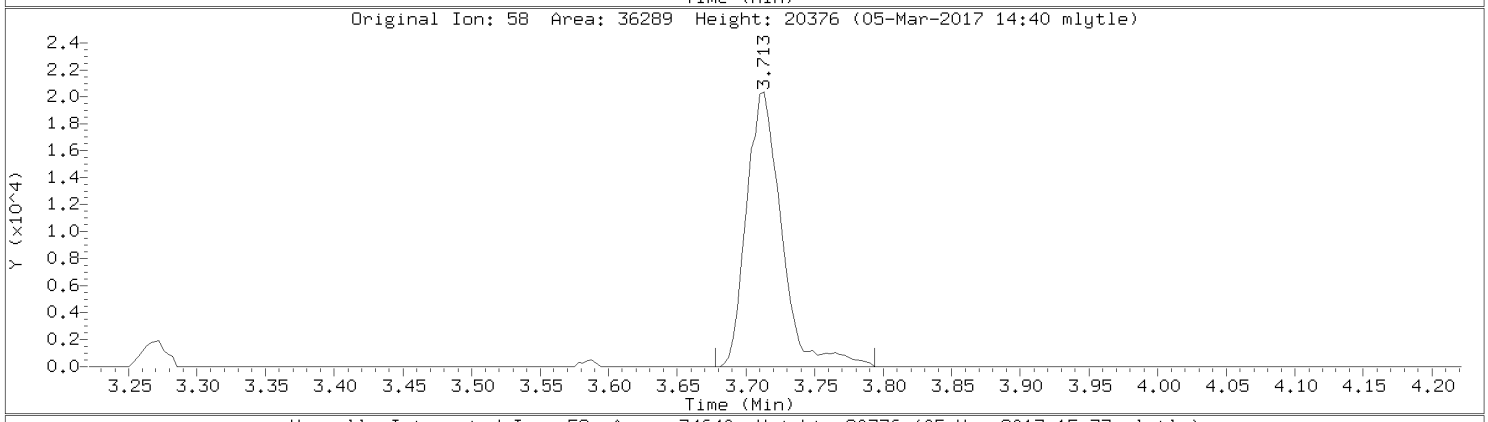


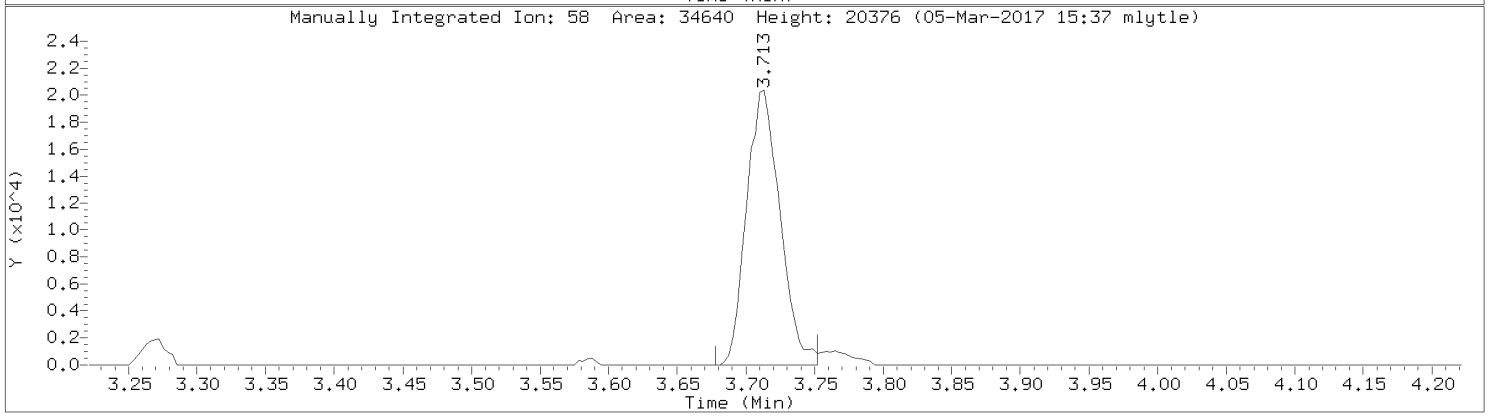
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06326.D
Injection Date: 04-MAR-2017 19:39
Instrument: 10airB.i
Lab Sample ID: 10379929018

Compound: Acetone
CAS Number: 67-64-1



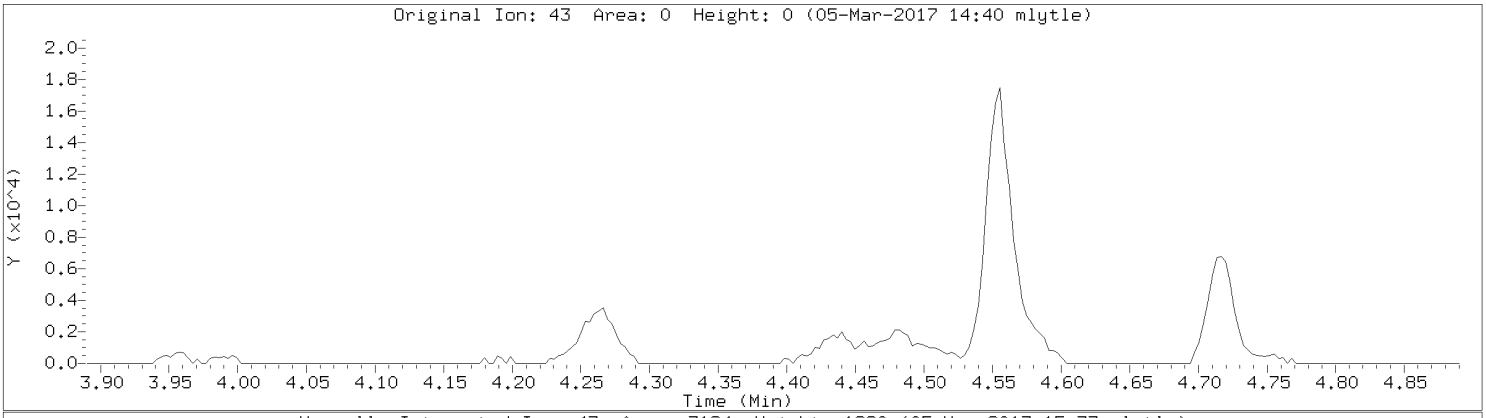


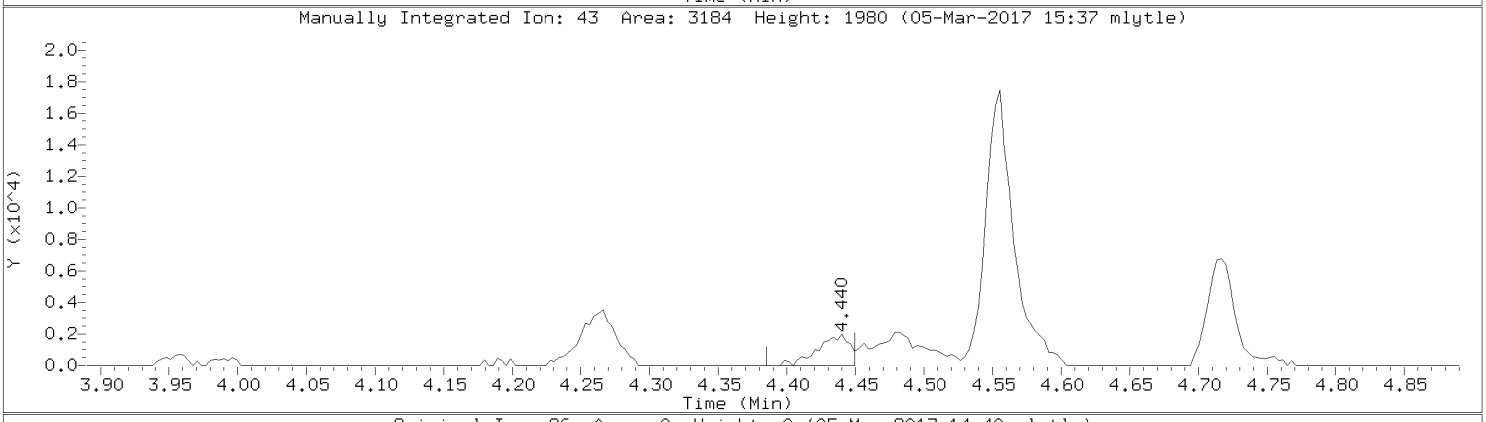


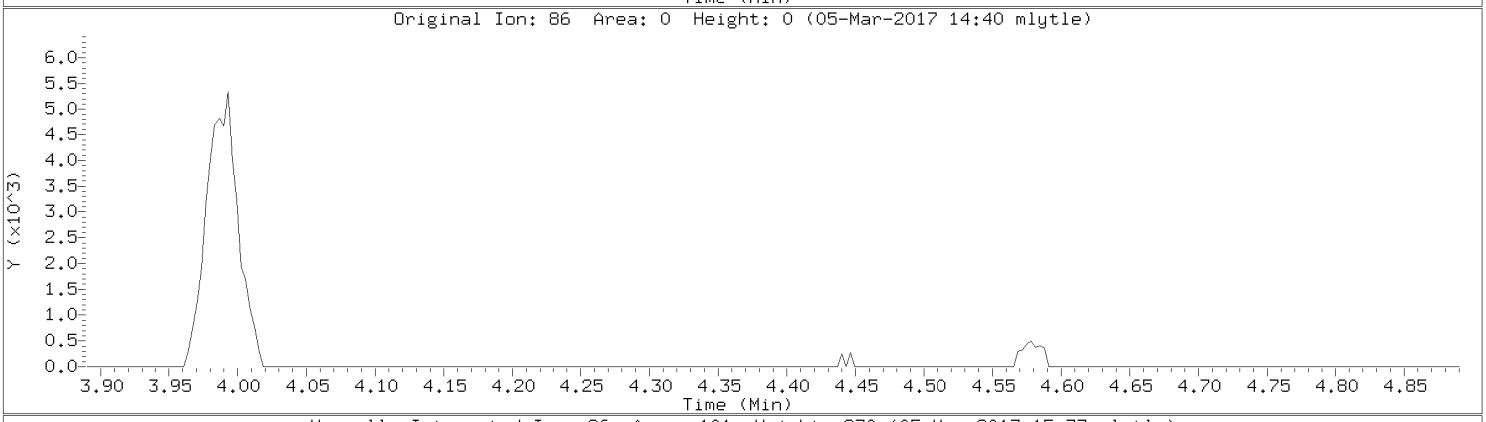


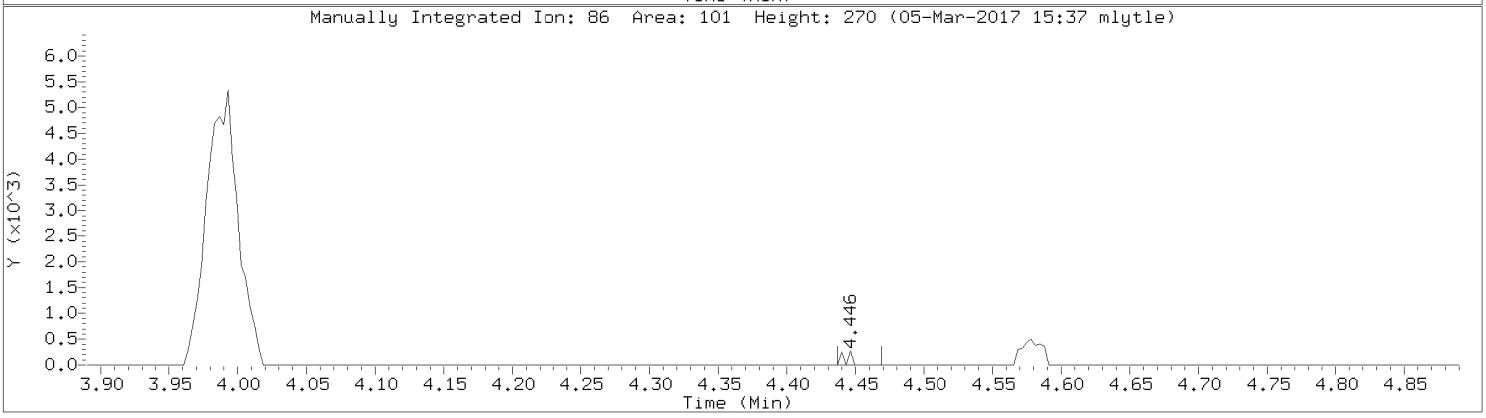
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06326.D
Injection Date: 04-MAR-2017 19:39
Instrument: 10airB.i
Lab Sample ID: 10379929018

Compound: Vinyl Acetate
CAS Number: 108-05-4



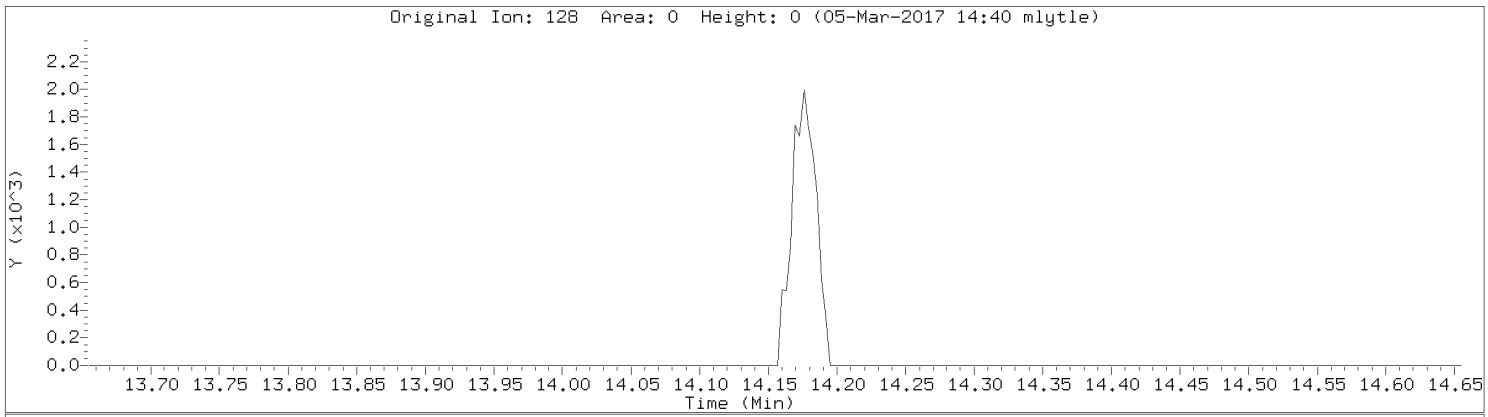


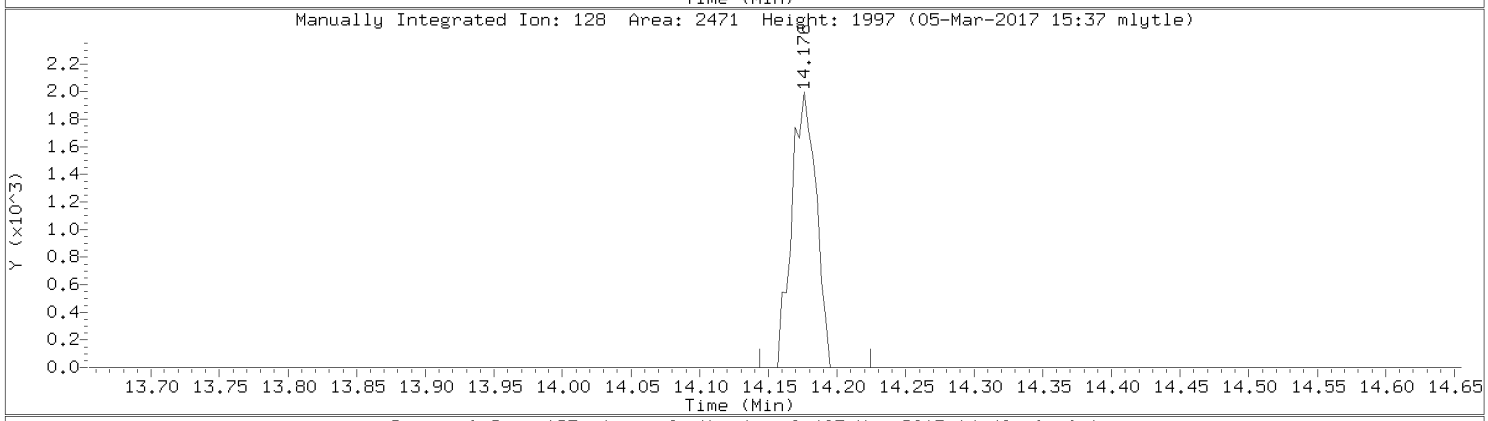


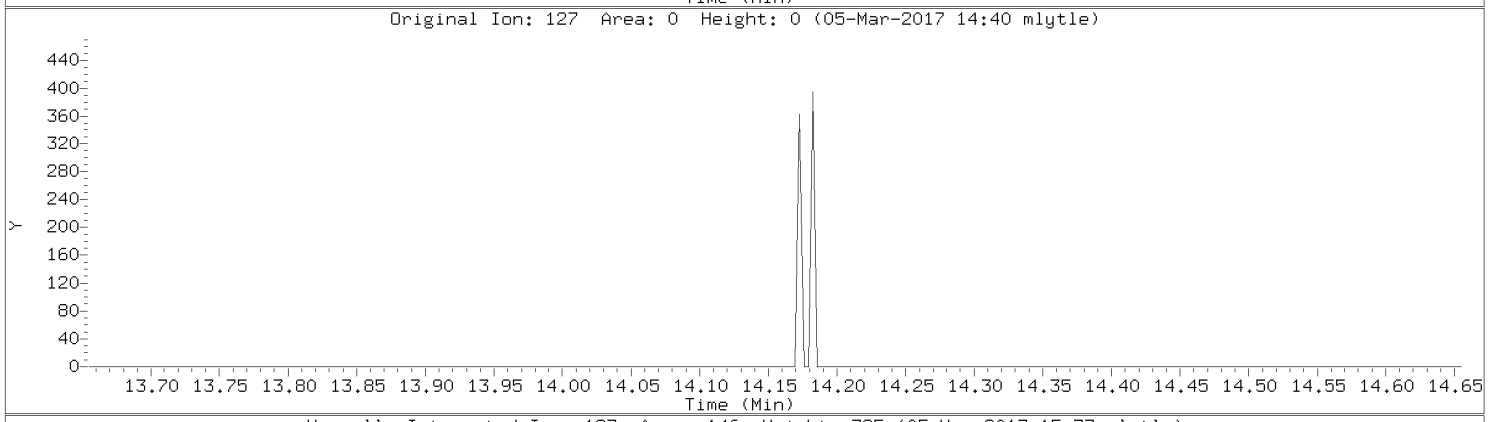


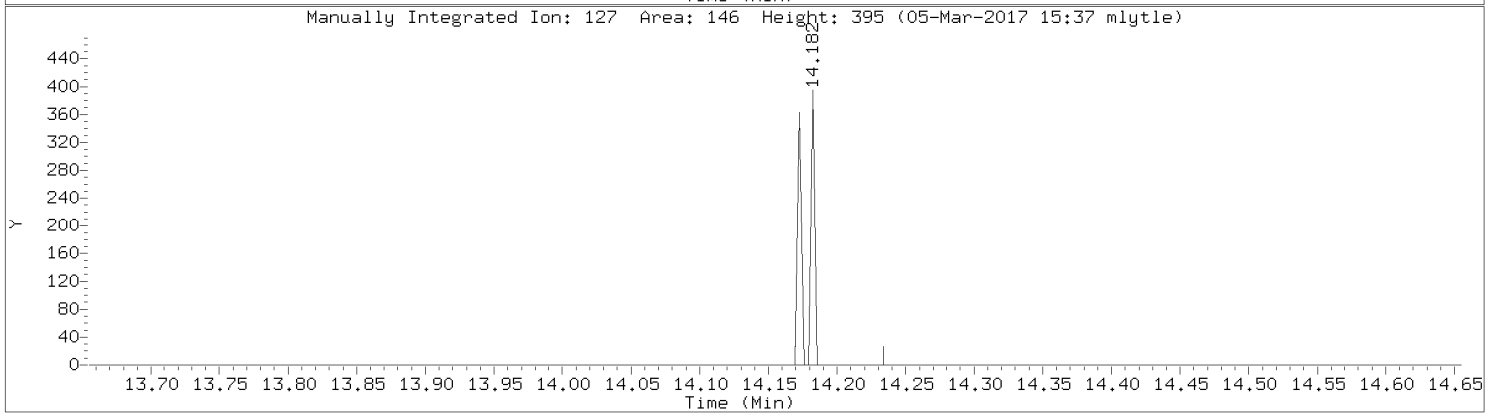
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06326.D
Injection Date: 04-MAR-2017 19:39
Instrument: 10airB.i
Lab Sample ID: 10379929018

Compound: Naphthalene
CAS Number: 91-20-3



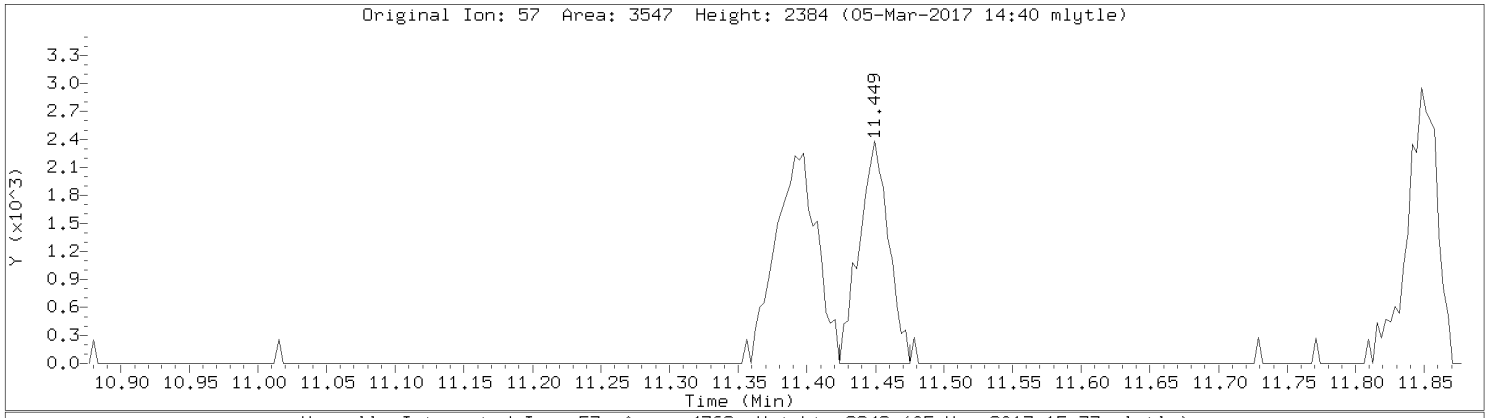


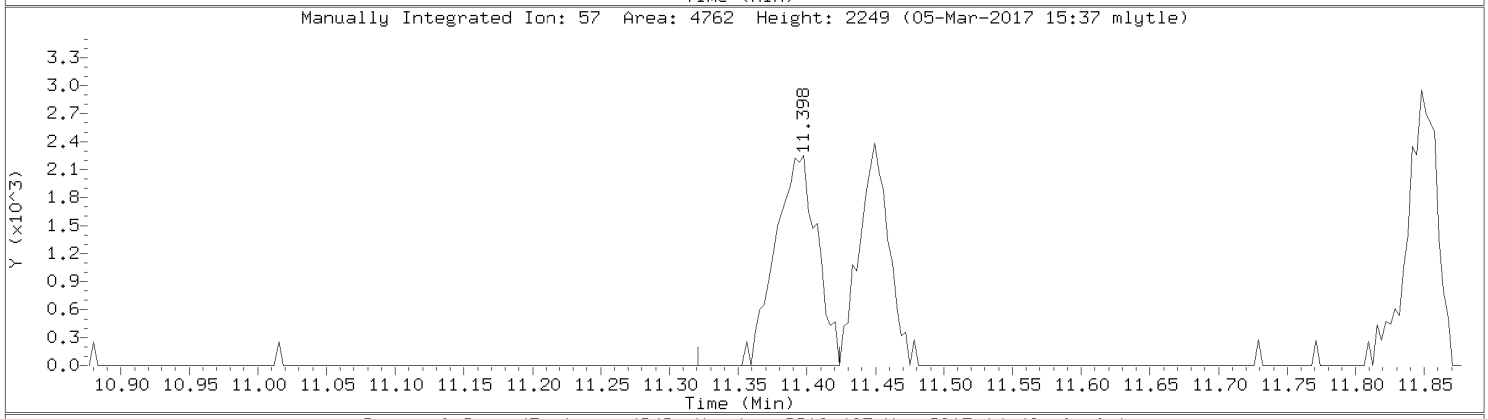


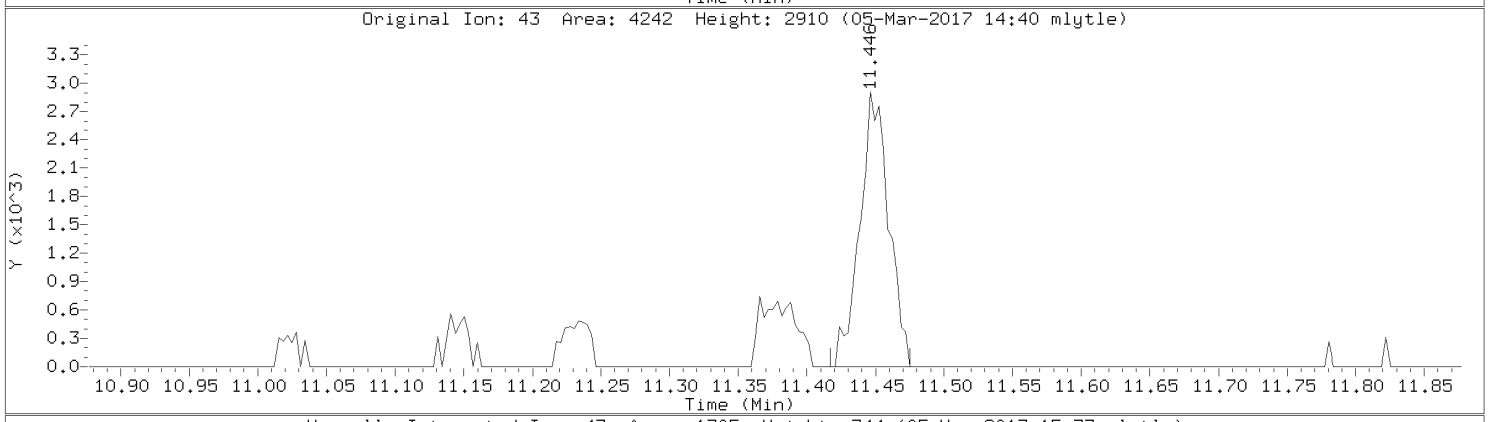


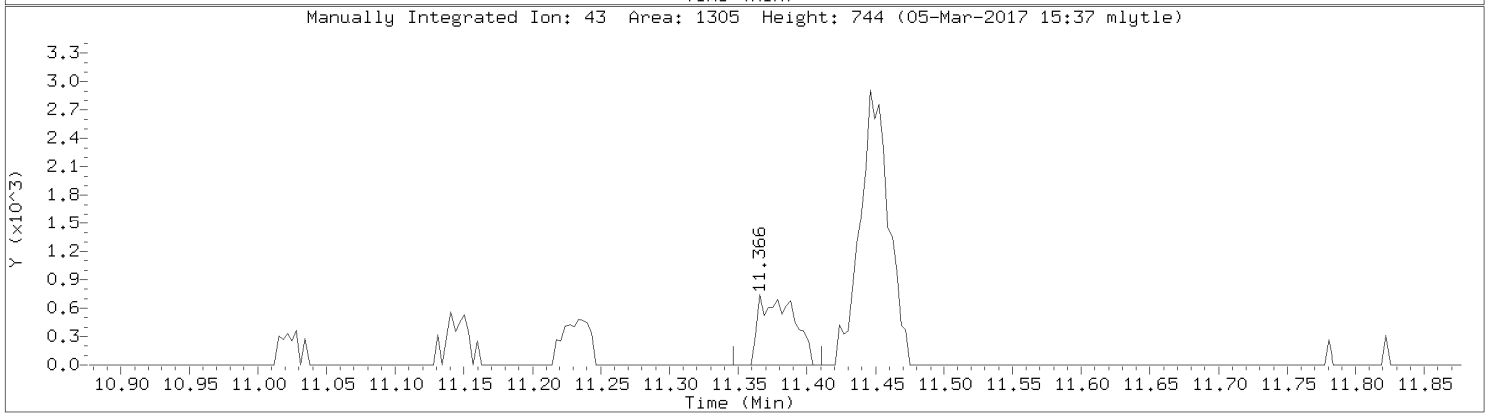
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06326.D
Injection Date: 04-MAR-2017 19:39
Instrument: 10airB.i
Lab Sample ID: 10379929018

Compound: n-Decane
CAS Number: 124-18-5

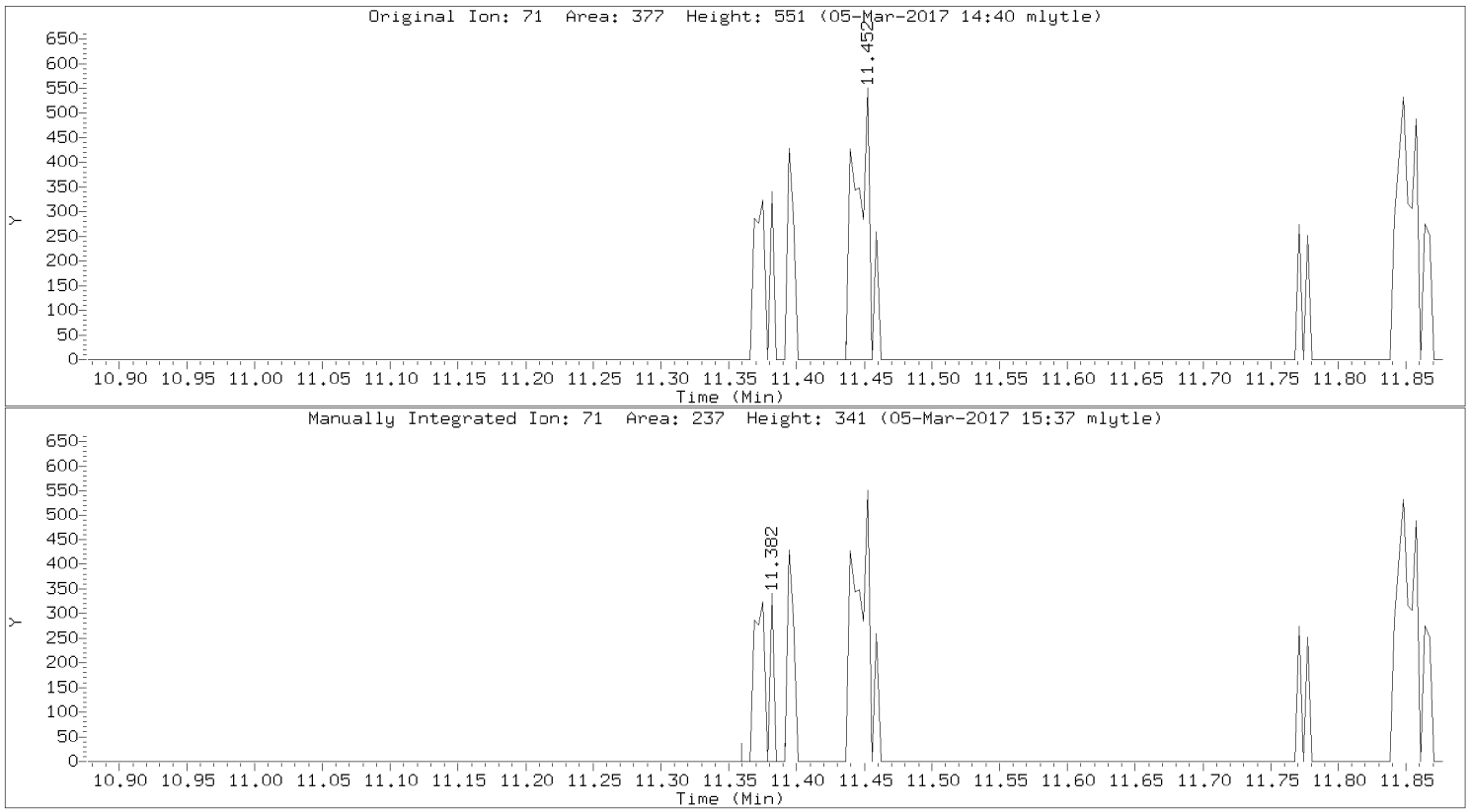








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06326.D
Injection Date: 04-MAR-2017 19:39
Instrument: 10airB.i
Lab Sample ID: 10379929018



Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Level 02: all \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Level 03: all \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Level 04: all \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Level 05: all \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Level 06: all \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Level 07: all \\192.168.10.12\chem\10airB.i\030217.b\06115.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	1604	3252	3232	5096	104607	+++++	+++++	LINR	-0.00090	0.07460		0.99641
2 1,1-Difluoroethane	0.04907	0.06383	0.05871	0.05580	0.06051	0.05847	0.06399	AVRG		0.05863		8.77337
3 Chlorodifluoromethane	246	740	2020	3964	41204	80199	+++++	LINR	0.00012	0.02798		0.99946
4 Propylene	+++++	5938	12525	24954	98681	197124	287080	LINR	0.00470	0.06927		0.99648

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	5463 +++++	9737	20944	41132	413909	810812	LINR	0.00223	0.28189		0.99963
6 Chloromethane	0.11898	0.12708	0.10813	0.10743	0.11466	0.11047					
	0.11752						AVRG		0.11490		6.08607
7 Dichlorotetrafluoroethane	0.28412	0.30889	0.27070	0.26600	0.27057	0.26389					
	0.27923						AVRG		0.27763		5.58743
8 Vinyl chloride	0.09509	0.10099	0.09950	0.09199	0.10191	0.09874					
	0.10655						AVRG		0.09925		4.75711
9 1,3-Butadiene	0.05391	0.07556	0.07312	0.07192	0.07709	0.07383					
	0.08059						AVRG		0.07229		11.89494
10 Bromomethane	0.08947	0.09822	0.08330	0.09096	0.09309	0.09088					
	0.09682						AVRG		0.09182		5.39696
11 Chloroethane	0.03819	0.05297	0.04520	0.04372	0.04546	0.04563					
	0.04831						AVRG		0.04564		9.80664

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.03522	0.04042	0.03424	0.03385	0.03683	0.03737						
	0.03928							AVRG		0.03674		6.78934
13 Vinyl Bromide	0.08975	0.10765	0.08918	0.09053	0.09716	0.09296						
	0.09853							AVRG		0.09511		6.95676
14 Isopentane	2027	3504	8126	19900	145015	281297						
	397743							LINR	0.00137	0.09936		0.99946
15 Freon 123	3166	6319	15648	16103	129273	313230						
	415076							LINR	0.00086	0.10477		0.99707
16 Trichlorofluoromethane	0.26982	0.32357	0.26730	0.26491	0.26724	0.25660						
	0.26965							AVRG		0.27416		8.11471
17 Acrolein	775	1831	4758	9510	138213	268448						
	385253							QUAD	-0.00070	0.03680	0.00028	0.99942
18 Acetone	0.18064	0.18872	0.15744	0.15292	0.14823	0.14001						
	0.14269							AVRG		0.15867		11.88329

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
19 Isopropyl Alcohol	0.15763	0.18004	0.16031	0.15685	0.16644	0.15379					
	0.15766						AVRG		0.16182		5.52630
20 1,1-Dichloroethene	0.15042	0.18079	0.15074	0.15557	0.16140	0.15494					
	0.16226						AVRG		0.15945		6.57851
21 Acrylonitrile	0.06401	0.07958	0.07178	0.06963	0.07949	0.07360					
	0.07512						AVRG		0.07332		7.53853
22 Freon 113	0.20290	0.23676	0.21541	0.21019	0.20544	0.18768					
	0.19083						AVRG		0.20703		7.93831
23 Methyl Acetate	0.24600	0.28365	0.24125	0.23673	0.24529	0.22152					
	0.21654						AVRG		0.24157		9.03208
24 Tert Butyl Alcohol (TBA)	0.20789	0.23454	0.21267	0.20927	0.21143	0.19109					
	0.18922						AVRG		0.20802		7.28573
25 Methylene chloride	0.12486	0.12863	0.11364	0.10974	0.10908	0.09990					
	0.09808						AVRG		0.11199		10.29977

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
26 Allyl Chloride	998	2156	5091	11220	140726	270021					
	360233						QUAD	-0.00091	0.04080	-0.00057	0.99986
27 Carbon Disulfide	0.17986	0.19150	0.20428	0.20601	0.23438	0.22813					
	0.23219						AVRG		0.21091		10.07488
28 trans-1,2-dichloroethene	0.07503	0.08339	0.09494	0.09061	0.09728	0.09169					
	0.09329						AVRG		0.08946		8.62620
29 Methyl Tert Butyl Ether	0.25867	0.26679	0.26248	0.25662	0.25690	0.24424					
	0.23949						AVRG		0.25503		3.82490
30 Vinyl Acetate	+++++	4581	11738	24341	385061	772513					
	1072670						QUAD	-0.00502	0.27169	0.00039	0.99985
31 1,1-Dichloroethane	0.16713	0.17331	0.17791	0.16887	0.17978	0.17421					
	0.17860						AVRG		0.17426		2.80642
33 Methyl Ethyl Ketone	413	1030	3113	6401	65846	136332					
	188259						LINR	-0.00035	0.04762		0.99995

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.15219	0.17180	0.15757	0.15809	0.16476	0.15753					
	0.15431						AVRG		0.15946		4.19713
35 Di-isopropyl Ether	0.29073	0.32953	0.30665	0.31510	0.31267	0.30686					
	0.30329						AVRG		0.30926		3.84474
36 Ethyl Acetate	0.18718	0.20821	0.20219	0.20145	0.22630	0.20681					
	0.20449						AVRG		0.20523		5.64392
37 cis-1,2-Dichloroethene	0.08790	0.09791	0.09585	0.10208	0.11359	0.10201					
	0.10033						AVRG		0.09995		7.76168
38 Ethyl Tert-Butyl Ether	0.33357	0.32421	0.30640	0.35487	0.34762	0.31600					
	0.28396						AVRG		0.32381		7.54289
39 Chloroform	0.19920	0.19789	0.20212	0.22254	0.22603	0.20669					
	0.19573						AVRG		0.20717		5.90539
40 Tetrahydrofuran	0.09352	0.11602	0.11217	0.11030	0.11359	0.11356					
	0.11599						AVRG		0.11074		7.09391

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.22737	0.25316	0.24262	0.24336	0.25641	0.24012					
	0.24303						AVRG		0.24372		3.86416
42 1,2-Dichloroethane	0.18128	0.20743	0.18724	0.17899	0.18979	0.17568					
	0.17382						AVRG		0.18489		6.21802
43 Benzene	0.31171	0.32607	0.33236	0.31269	0.33860	0.32105					
	0.31508						AVRG		0.32251		3.19963
44 Carbon tetrachloride	0.20909	0.24599	0.24225	0.23334	0.27264	0.25235					
	0.24937						AVRG		0.24358		7.96219
45 Cyclohexane	0.16443	0.16627	0.16904	0.16158	0.16763	0.15400					
	0.14717						AVRG		0.16145		4.97615
46 Tert Amyl Methyl Ether	18270	20967	35082	56548	445708	890854					
	1221003						LINR	0.00956	0.30539		0.99998
48 2,2,4-Trimethylpentane	0.50958	0.53058	0.50192	0.51218	0.51793	0.47603					
	0.44850						AVRG		0.49953		5.61871

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
49 Heptane	0.16777	0.18321	0.17622	0.17889	0.18730	0.18280						
	0.18526						AVRG		0.18021		3.68106	
50 1,2-Dichloropropane	0.10497	0.12424	0.11629	0.11669	0.12070	0.11726						
	0.11759						AVRG		0.11682		5.08339	
51 Trichloroethene	0.15582	0.17814	0.16982	0.16813	0.17159	0.16617						
	0.16646						AVRG		0.16802		4.01609	
52 Methyl methacrylate	0.09772	0.11462	0.09998	0.10330	0.11687	0.11624						
	0.11625						AVRG		0.10928		7.82967	
53 1,4-Dioxane	+++++	0.07571	0.07103	0.06920	0.07879	0.07867						
	0.07869						AVRG		0.07535		5.65122	<-
54 Bromodichloromethane	0.21158	0.24802	0.22534	0.22917	0.25791	0.24572						
	0.24880						AVRG		0.23808		6.87954	
55 Methylcyclohexane	880	2326	5684	12229	132902	266242						
	381479						QUAD	0.00004	0.08838	0.00263	0.99977	

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
						30.0000 Level 7					
56 Methyl Isobutyl Ketone	0.22195	0.26034	0.23797	0.24491	0.26557	0.24586					
	0.24523						AVRG		0.24597		5.82913
57 cis-1,3-Dichloropropene	1869	4624	11439	23875	285919	572916					
	802416						LINR	-0.00192	0.20261		0.99982
58 trans-1,3-Dichloropropene	1570	3360	9313	20281	268282	540240					
	767727						QUAD	-0.00158	0.18207	0.00413	0.99982
60 1,1,2-Trichloroethane	0.13072	0.14804	0.13627	0.12746	0.13595	0.12970					
	0.13071						AVRG		0.13412		5.17316
61 Toluene	0.38916	0.44540	0.40158	0.39773	0.40896	0.39760					
	0.38675						AVRG		0.40388		4.89194
62 Methyl Butyl Ketone	0.28663	0.29631	0.30585	0.31073	0.36206	0.34067					
	0.30862						AVRG		0.31584		8.34206
63 n-Octane	0.29207	0.33524	0.34580	0.35107	0.38006	0.35999					
	0.33009						AVRG		0.34204		8.05009

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	2474 +++++	5941	14525	31027	385835	768082		LINR	-0.00176	0.39596		0.99963
65 1,2-Dibromoethane	0.29331	0.32167	0.31961	0.32276	0.34926	0.33384		AVRG		0.32276		5.24361
	0.31887											
66 Tetrachloroethene	0.34391	0.39141	0.35716	0.34645	0.34946	0.33288		AVRG		0.34724		7.15405
	0.30942											
68 Chlorobenzene	0.50757	0.49302	0.50324	0.47975	0.51011	0.49597		AVRG		0.49598		2.39875
	0.48219											
69 Ethyl Benzene	0.63105	0.69350	0.75373	0.75767	0.80239	0.76885		AVRG		0.73550		7.67448
	0.74134											
70 m&p-Xylene	0.54709	0.56056	0.58709	0.58750	0.63367	0.58090		AVRG		0.57729		5.32940
	0.54419											
71 n-Nonane	0.23991	0.25232	0.30355	0.32308	0.35571	0.32001		AVRG		0.29775		13.71498
	0.28968											

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
72 Bromoform	1731 / 1008290	3665	10681	23365	367770	705920	QUAD	-0.00691	0.40720	-0.02023	0.99982
73 Styrene	3030 / 1314898	6483	19327	41273	465333	918818	QUAD	-0.00399	0.51302	-0.02071	0.99999
74 o-Xylene	0.54284 / 0.58304	0.55619	0.58404	0.60209	0.63683	0.60612	AVRG		0.58731		5.38409
75 1,1,2,2-Tetrachloroethane	0.28133 / 0.34089	0.29909	0.30949	0.31566	0.36746	0.35145	AVRG		0.32362		9.48066
76 Isopropylbenzene	0.86950 / 0.78729	0.84572	0.82595	0.80512	0.86425	0.82068	AVRG		0.83122		3.64806
77 N-Propylbenzene	5321 / +++++	12256	35990	77311	929423	1826015	LINR	-0.00241	0.94285		0.99939
78 4-Ethyltoluene	4421 / 2322755	10605	30251	69266	815307	1614385	QUAD	-0.00900	0.89638	-0.03311	0.99998

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	4235	9860	28097	61066	689551	1370583					
	+++++						LINR	-0.00130	0.70575		0.99966
80 n-Decane	1450	3858	11603	27313	350331	729038					
	1038909						LINR	-0.00620	0.26167		0.99940
81 Tert-Butyl Benzene	0.56680	0.61270	0.67584	0.68138	0.74872	0.70347					
	0.65929						AVRG		0.66403		8.96869
82 1,2,4-Trimethylbenzene	0.49112	0.54574	0.57970	0.62431	0.68706	0.63694					
	0.59336						AVRG		0.59403		10.76645
83 1,3-Dichlorobenzene	2849	6190	16619	35362	423299	815126					
	+++++						LINR	0.00042	0.42172		0.99883
84 Sec- Butylbenzene	0.69229	0.74745	0.81958	0.87314	0.98355	0.88644					
	0.82157						AVRG		0.83200		11.46062
86 Benzyl Chloride	+++++	3597	9078	22499	427013	897595					
	1343950						QUAD	-0.01363	0.46373	0.00022	0.99991

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
87 1,4-Dichlorobenzene	0.34312	0.35215	0.36805	0.38523	0.44083	0.42325					
	0.41139						AVRG		0.38915		9.54420
88 p-Isopropyltoluene	4750	11000	31230	67948	793111	1535893					
	+++++						LINR	0.00032	0.79402		0.99902
89 1,2,3-Trimethylbenzene	0.49291	0.51053	0.57370	0.59567	0.68477	0.63533					
	0.61245						AVRG		0.58648		11.54196
90 1,2-Dichlorobenzene	2466	5537	14338	32463	395633	776749					
	1131959						QUAD	-0.00389	0.42770	-0.01328	0.99994
91 N-Butylbenzene	2805	7061	20942	47311	612616	1214291					
	1755538						LINR	0.00139	0.60841		0.99917
92 1,2-Dibromo-3-Chloropropane	387	957	3096	7071	154681	319932					
	467876						LINR	-0.00318	0.16248		0.99959
93 1,2,4-Trichlorobenzene	+++++	513	2447	7389	156379	358428					
	553071						QUAD	-0.00633	0.16753	0.00809	0.99974

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	645	1944	7018	19022	369664	797177					
	1218782						LINR	-0.01424	0.41809		0.99958
95 Hexachlorobutadiene	0.13792	0.16150	0.17377	0.18747	0.19308	0.18620					
	0.17473						AVRG		0.17353		10.91245
$ 32 Hexane-d14(S)	0.31889	0.30929	0.31483	0.31375	0.31188	0.32281					
	0.33562						AVRG		0.31815		2.79904
$ 59 Toluene-d8 (S)	0.86049	0.94509	0.86662	0.86999	0.88227	0.89817					
	0.94256						AVRG		0.89503		3.96718
$ 85 1,4-dichlorobenzene-d4 (S)	0.49310	0.47520	0.50594	0.53279	0.61007	0.62504					
	0.61393						AVRG		0.55087		11.57446

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Average %RSD Results.	
Calculated Average %RSD =	6.97496
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Lab Smp Id: cal1
Inj Date : 02-MAR-2017 11:19
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 15:58 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.912	2.912	(0.520)	1604	0.10000	0.273
2	1,1-Difluoroethane	65	2.986	2.986	(0.534)	690	0.10000	0.0837(Q)
3	Chlorodifluoromethane	67	3.012	3.012	(0.538)	246	0.10000	0.0208(aQM)
4	Propylene	41	3.005	3.005	(0.537)	3613	0.10000	(aQ)
5	Dichlorodifluoromethane	85	3.037	3.037	(0.543)	5463	0.10000	0.0585
6	Chloromethane	50	3.137	3.137	(0.561)	1673	0.10000	0.104(M)
7	Dichlorotetrafluoroethane	85	3.137	3.137	(0.561)	3995	0.10000	0.102
8	Vinyl chloride	62	3.205	3.205	(0.573)	1337	0.10000	0.0958(M)
9	1,3-Butadiene	54	3.250	3.250	(0.581)	758	0.10000	0.0746(Q)
10	Bromomethane	94	3.388	3.388	(0.605)	1258	0.10000	0.0974
11	Chloroethane	64	3.439	3.439	(0.615)	537	0.10000	0.0837(QM)
12	Ethanol	45	3.558	3.558	(0.636)	2476	0.50000	0.479
13	Vinyl Bromide	106	3.555	3.555	(0.635)	1262	0.10000	0.0944
14	Isopentane	43	3.558	3.558	(0.636)	2027	0.10000	0.00751(aQ)
15	Freon 123	83	3.578	3.578	(0.639)	3166	0.10000	0.133
16	Trichlorofluoromethane	101	3.642	3.642	(0.651)	3794	0.10000	0.0984
17	Acrolein	56	3.671	3.671	(0.656)	775	0.25000	0.341
18	Acetone	43	3.716	3.716	(0.664)	12700	0.50000	0.569
19	Isopropyl Alcohol	45	3.777	3.777	(0.675)	11082	0.50000	0.487
20	1,1-Dichloroethene	61	3.877	3.877	(0.693)	2115	0.10000	0.0943
21	Acrylonitrile	53	3.906	3.906	(0.698)	2250	0.25000	0.218
22	Freon 113	101	3.918	3.918	(0.700)	2853	0.10000	0.0980
23	Methyl Acetate	43	3.951	3.951	(0.706)	3459	0.10000	0.102

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.970	3.970	(0.709)	7308	0.25000	0.250(Q)
	25 Methylene chloride	49	3.970	3.970	(0.709)	8778	0.50000	0.557(M)
	26 Allyl Chloride	76	3.976	3.976	(0.710)	998	0.25000	0.397(Q)
	27 Carbon Disulfide	76	4.092	4.092	(0.731)	2529	0.10000	0.0853(M)
	28 trans-1,2-dichloroethene	96	4.230	4.230	(0.756)	1055	0.10000	0.0839(Q)
	29 Methyl Tert Butyl Ether	73	4.308	4.308	(0.770)	9093	0.25000	0.254
	30 Vinyl Acetate	43	4.372	4.372	(0.781)	2236	0.10000	0.243(M)
	31 1,1-Dichloroethane	63	4.375	4.375	(0.782)	2350	0.10000	0.0959(M)
$	32 Hexane-d14(S)	66	4.475	4.475	(0.800)	448392	10.0000	10.0
	33 Methyl Ethyl Ketone	72	4.565	4.565	(0.816)	413	0.10000	0.135(QM)
	34 n-Hexane	57	4.571	4.571	(0.817)	2140	0.10000	0.0954(QM)
	35 Di-isopropyl Ether	45	4.597	4.597	(0.821)	4088	0.10000	0.0940
	36 Ethyl Acetate	43	4.722	4.722	(0.844)	2632	0.10000	0.0912(QM)
	37 cis-1,2-Dichloroethene	96	4.697	4.697	(0.839)	1236	0.10000	0.0879(M)
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.863)	11726	0.25000	0.258
	39 Chloroform	83	4.803	4.803	(0.858)	2801	0.10000	0.0962
	40 Tetrahydrofuran	42	5.018	5.018	(0.897)	1315	0.10000	0.0845
	41 1,1,1-Trichloroethane	97	5.208	5.208	(0.930)	3197	0.10000	0.0933
	42 1,2-Dichloroethane	62	5.211	5.211	(0.931)	2549	0.10000	0.0980
	43 Benzene	78	5.446	5.446	(0.973)	4383	0.10000	0.0967
	44 Carbon tetrachloride	117	5.465	5.465	(0.976)	2940	0.10000	0.0858
	45 Cyclohexane	56	5.471	5.471	(0.978)	2312	0.10000	0.102(Q)
	46 Tert Amyl Methyl Ether	73	5.597	5.597	(1.000)	18270	0.10000	0.112(Q)
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1406108	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.754	(1.028)	17913	0.25000	0.255
	49 Heptane	43	5.877	5.877	(1.050)	2359	0.10000	0.0931
	50 1,2-Dichloropropane	63	5.951	5.951	(1.063)	1476	0.10000	0.0899
	51 Trichloroethene	130	5.973	5.973	(1.067)	2191	0.10000	0.0927
	52 Methyl methacrylate	69	6.044	6.044	(1.080)	1374	0.10000	0.0894
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	6.070	6.070	(1.084)	2975	0.10000	0.0889
	55 Methylcyclohexane	98	6.420	6.420	(1.147)	880	0.10000	0.0665(Q)
	56 Methyl Isobutyl Ketone	43	6.542	6.542	(1.169)	7802	0.25000	0.226
	57 cis-1,3-Dichloropropene	75	6.581	6.581	(1.176)	1869	0.10000	0.160
	58 trans-1,3-Dichloropropene	75	6.979	6.979	(1.247)	1570	0.10000	0.148
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	1209940	10.0000	9.61
	60 1,1,2-Trichloroethane	97	7.134	7.134	(1.275)	1838	0.10000	0.0975
	61 Toluene	91	7.147	7.147	(1.277)	5472	0.10000	0.0964
	62 Methyl Butyl Ketone	43	7.388	7.388	(0.855)	6401	0.25000	0.227
	63 n-Octane	43	7.577	7.577	(0.877)	2609	0.10000	0.0854
	64 Dibromochloromethane	129	7.674	7.674	(0.888)	2474	0.10000	0.114
	65 1,2-Dibromoethane	107	7.899	7.899	(0.914)	2620	0.10000	0.0909
	66 Tetrachloroethene	166	7.983	7.983	(0.924)	3072	0.10000	0.0990
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	893268	10.0000	
	68 Chlorobenzene	112	8.684	8.684	(1.005)	4534	0.10000	0.102
	69 Ethyl Benzene	91	8.928	8.928	(1.033)	5637	0.10000	0.0858
	70 m&p-Xylene	91	9.076	9.076	(1.051)	9774	0.20000	0.190
	71 n-Nonane	43	9.462	9.462	(1.095)	2143	0.10000	0.0806
	72 Bromoform	173	9.475	9.475	(1.097)	1731	0.10000	0.217
	73 Styrene	104	9.503	9.503	(1.100)	3030	0.10000	0.144
	74 o-Xylene	91	9.577	9.577	(1.109)	4849	0.10000	0.0924
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.138)	2513	0.10000	0.0869
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	7767	0.10000	0.105(M)
	77 N-Propylbenzene	91	10.741	10.741	(1.243)	5321	0.10000	0.0888(M)

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	4421	0.10000	0.156(M)
79	1,3,5-Trimethylbenzene	105	10.992	10.992	(1.272)	4235	0.10000	0.0855(M)
80	n-Decane	57	11.378	11.378	(2.033)	1450	0.10000	0.276(Q)
81	Tert-Butyl Benzene	119	11.494	11.494	(1.330)	5063	0.10000	0.0854
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	4387	0.10000	0.0827
83	1,3-Dichlorobenzene	146	11.790	11.790	(1.365)	2849	0.10000	0.0656
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	6184	0.10000	0.0832
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.372)	440469	10.0000	8.95
86	Benzyl Chloride	91	11.860	11.860	(1.373)	1753	0.10000	0.336(M)
87	1,4-Dichlorobenzene	146	11.883	11.883	(1.376)	3065	0.10000	0.0882(QM)
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	4750	0.10000	0.0630
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	4403	0.10000	0.0840
90	1,2-Dichlorobenzene	146	12.275	12.275	(1.421)	2466	0.10000	0.156
91	N-Butylbenzene	91	12.458	12.458	(1.442)	2805	0.10000	0.0288(a)
92	1,2-Dibromo-3-Chloropropane	157	12.902	12.902	(1.494)	387	0.10000	0.223(QM)
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	14.169	14.169	(1.640)	645	0.10000	0.358(M)
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	1232	0.10000	0.0795

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06109.D
Lab Smp Id: cal1
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

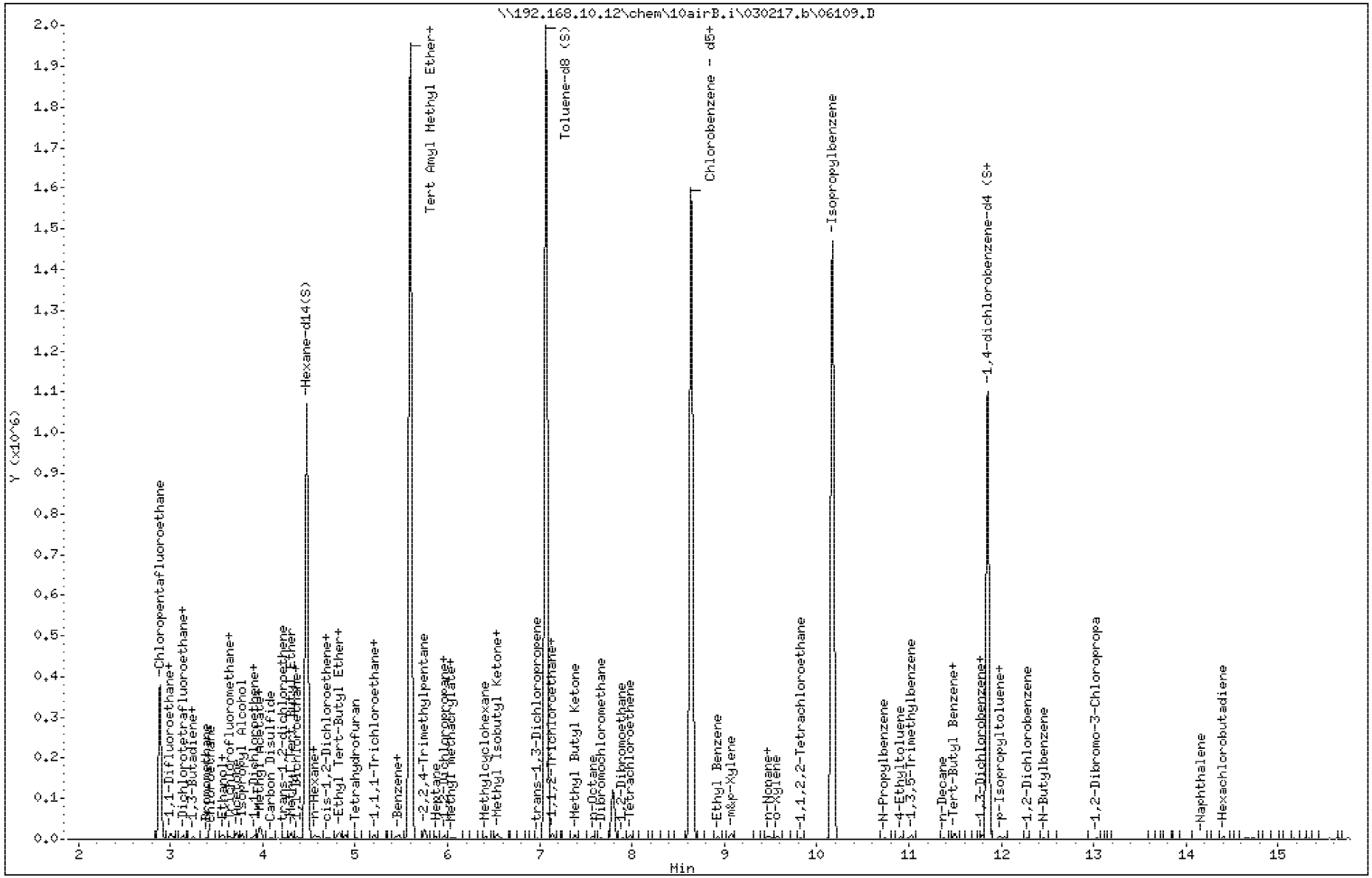
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1406108	-0.57
67 Chlorobenzene - d	951026	570616	1331436	893268	-6.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

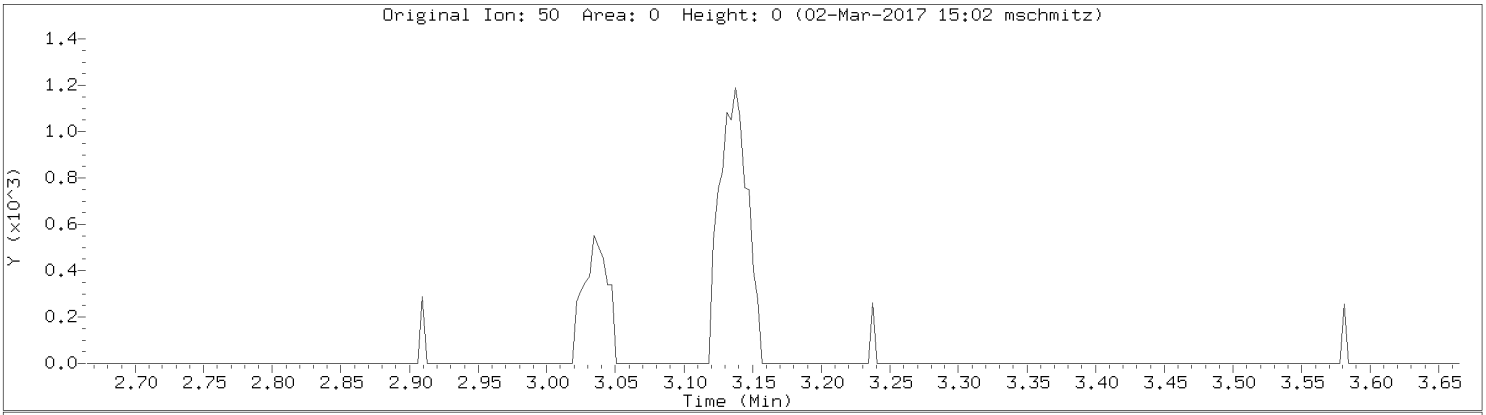
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Date : 02-MAR-2017 11:19
Client ID:
Sample Info:

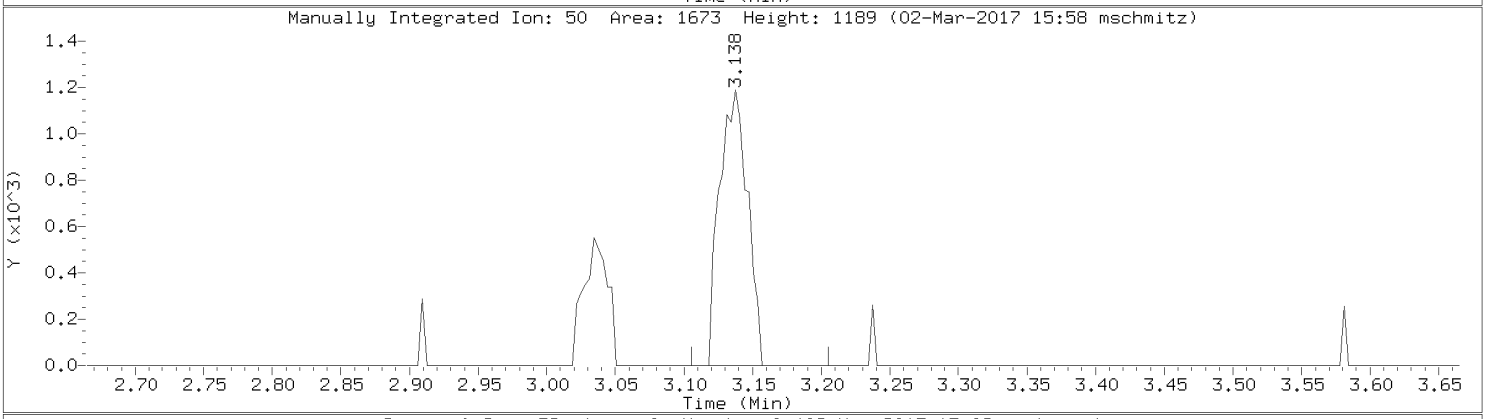
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

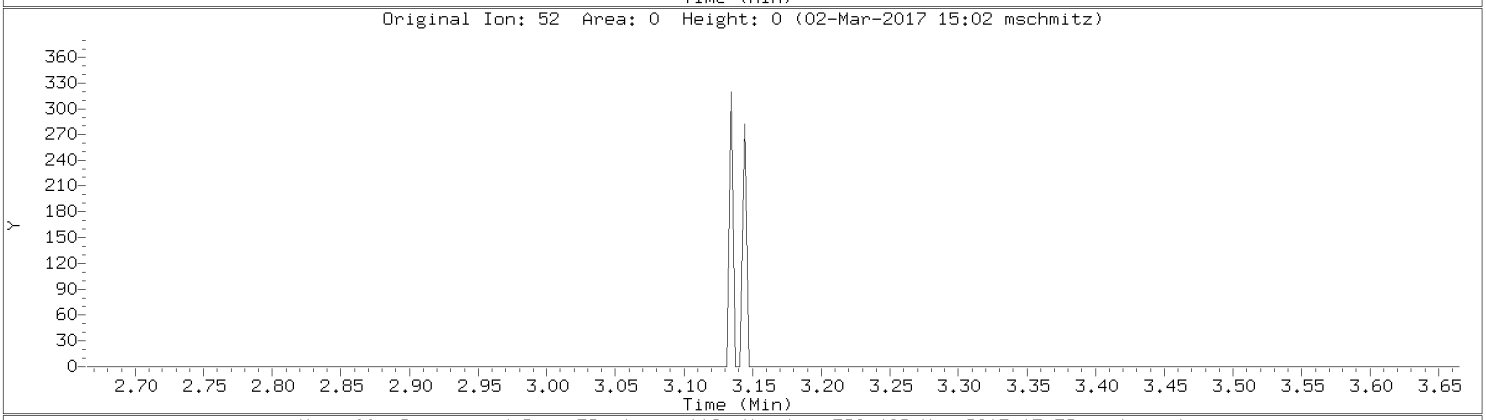


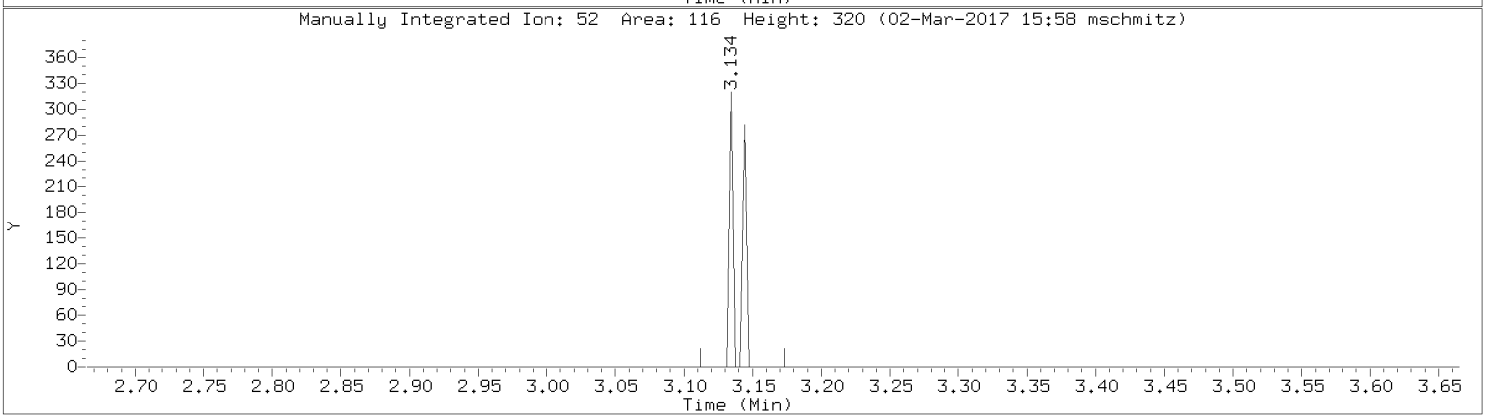
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chloromethane
CAS Number: 74-87-3



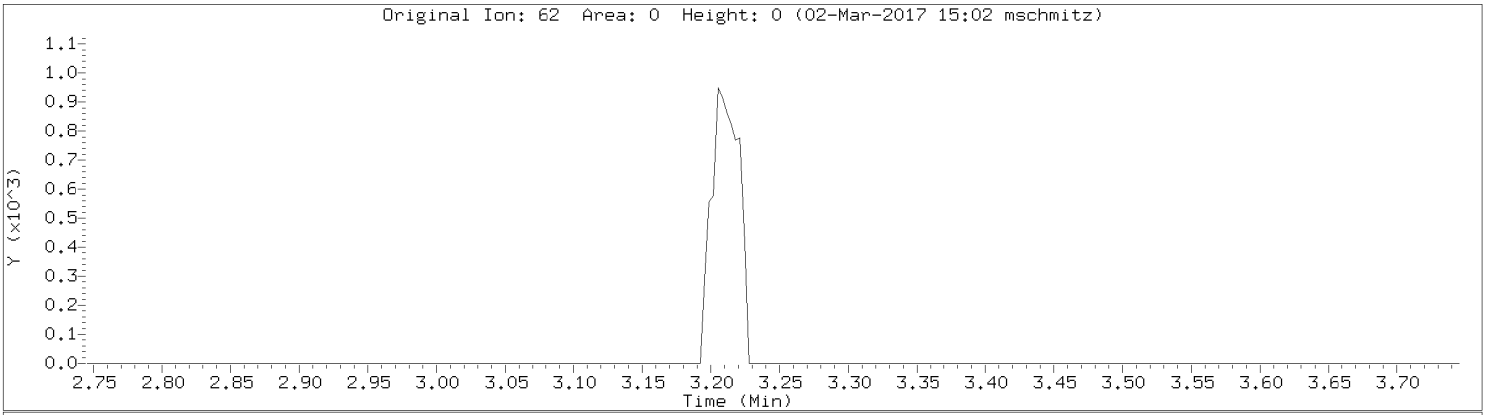


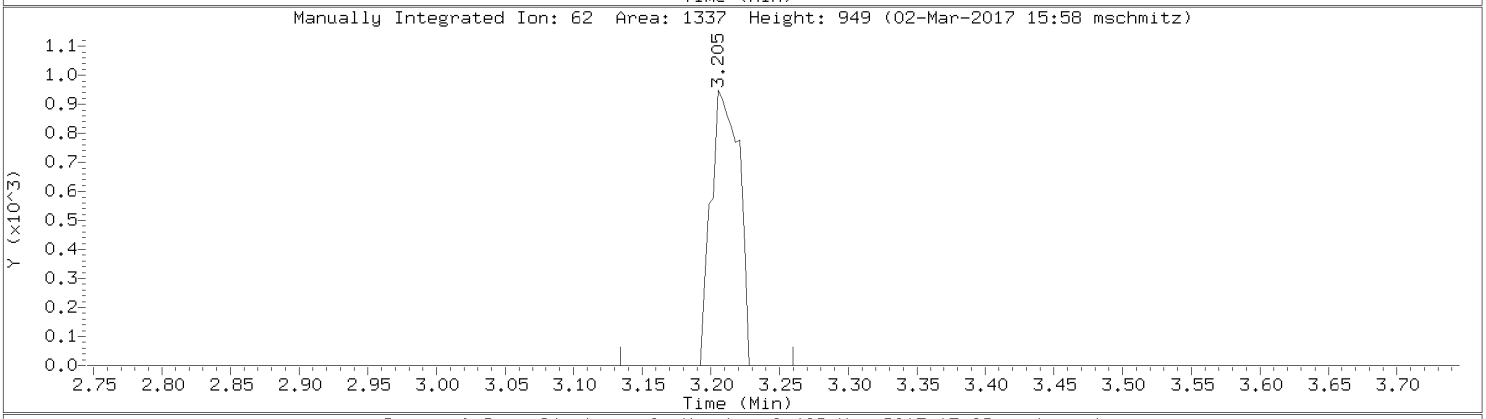


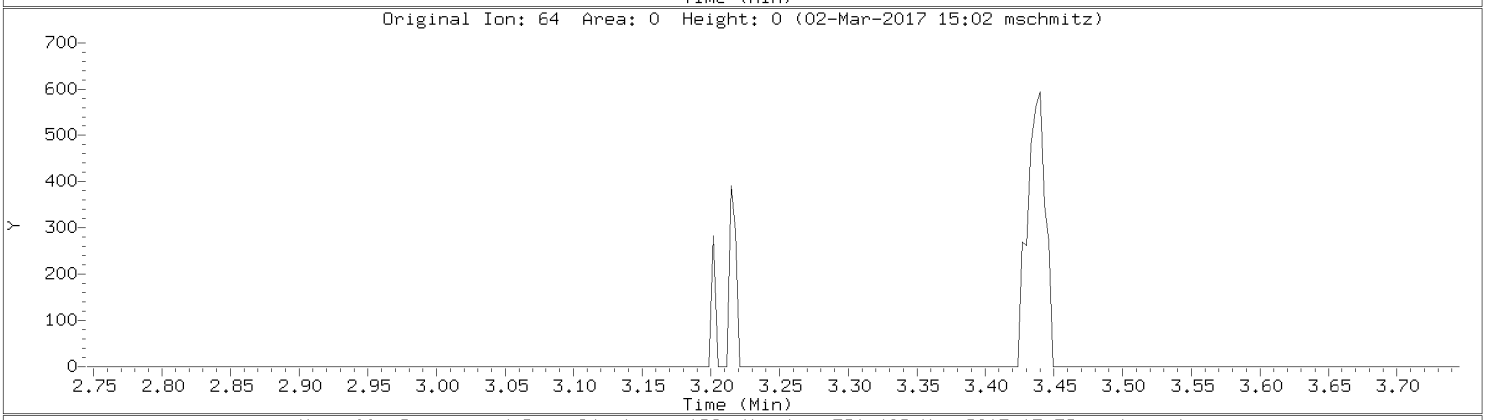


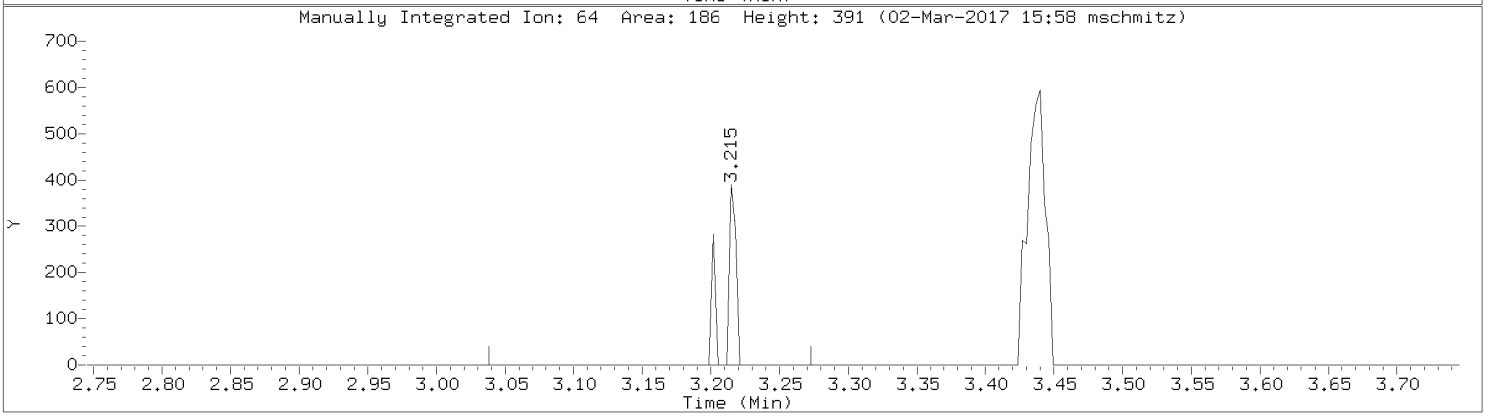
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Vinyl chloride
CAS Number: 75-01-4



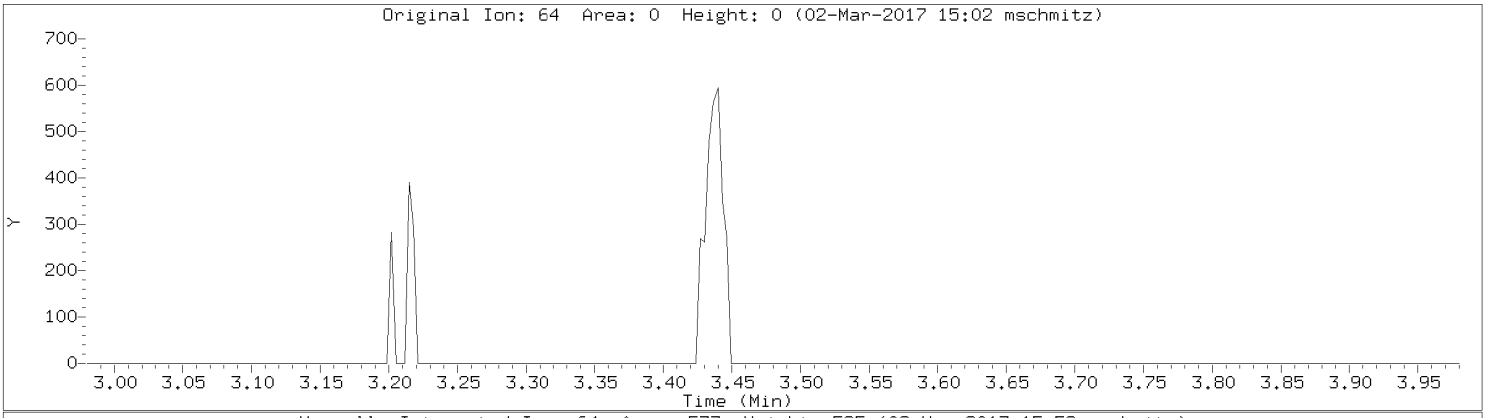


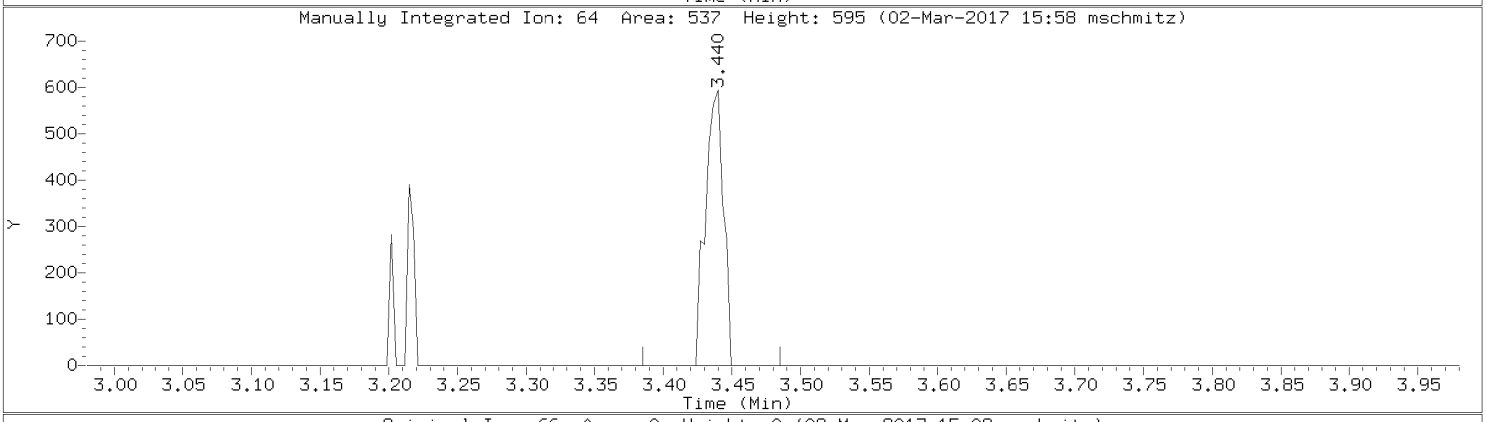


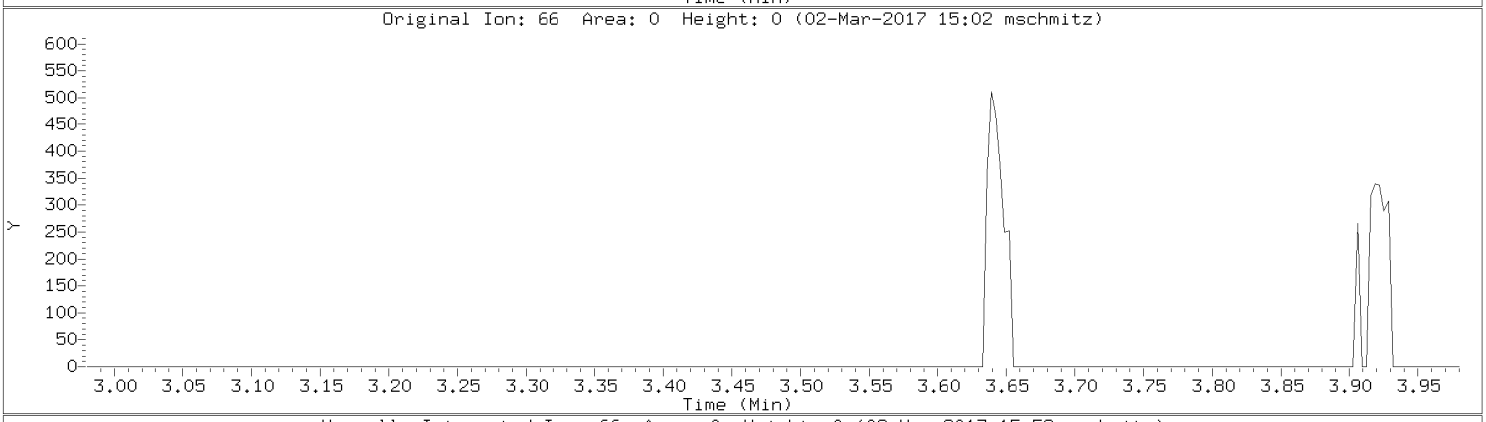


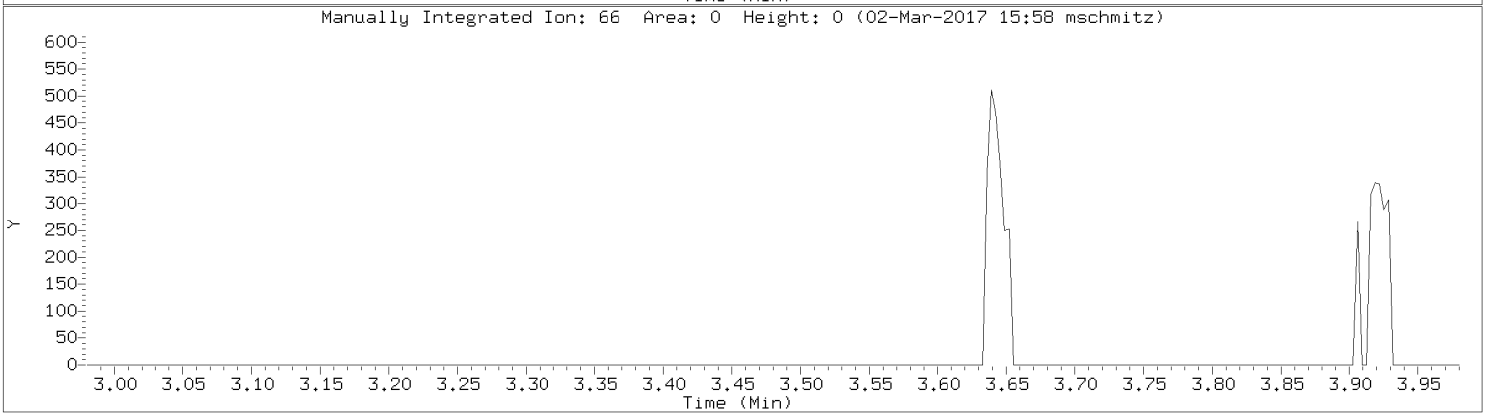
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chloroethane
CAS Number: 75-00-3



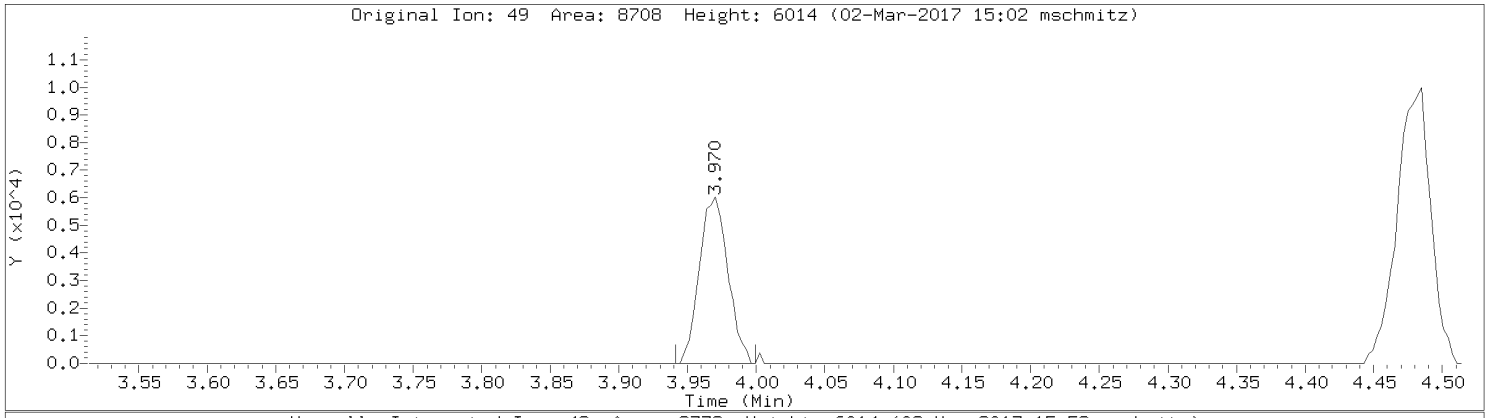


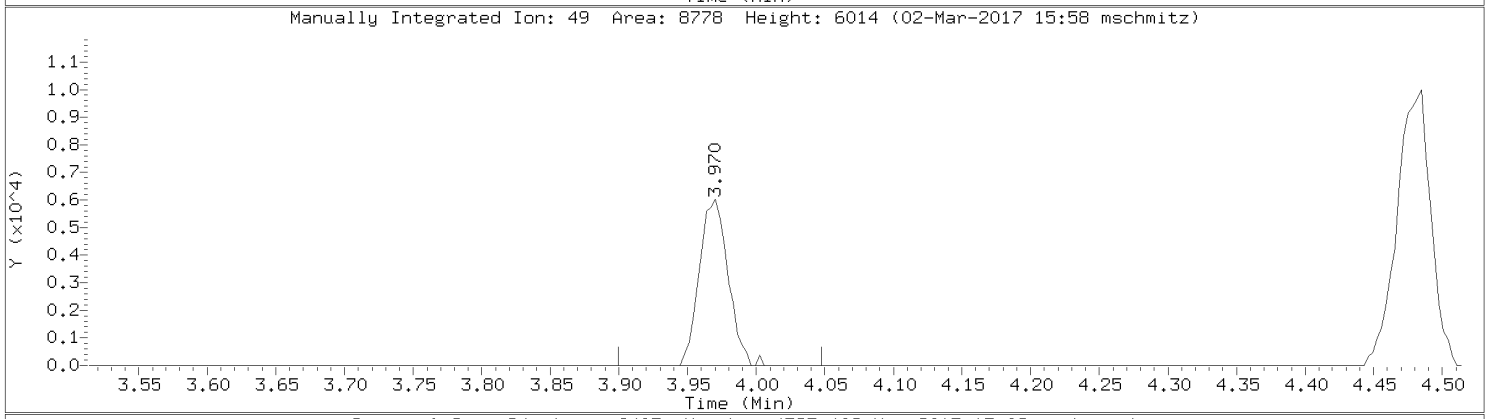


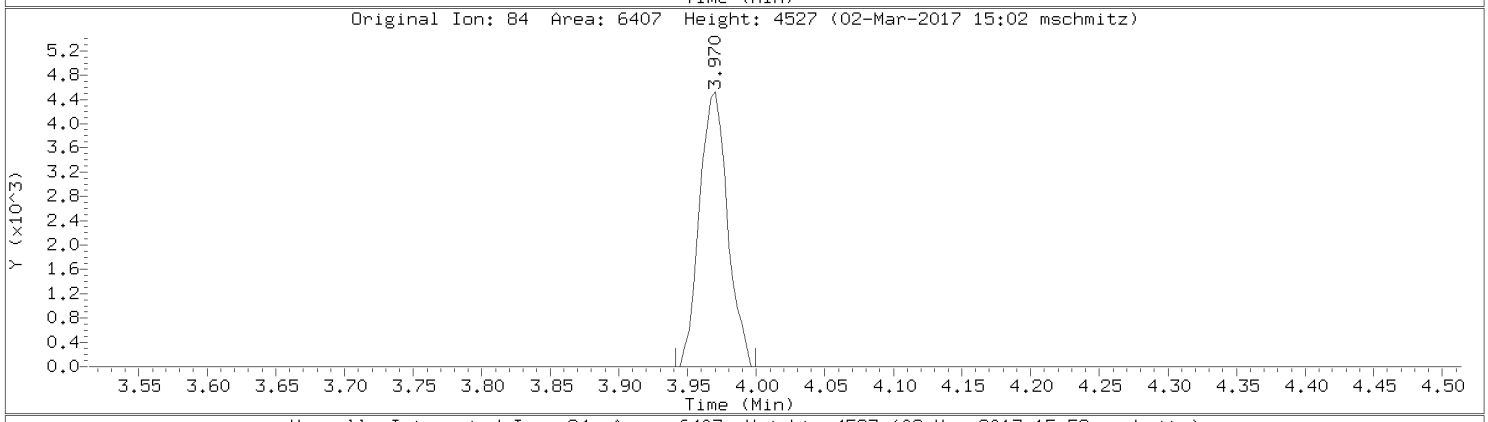


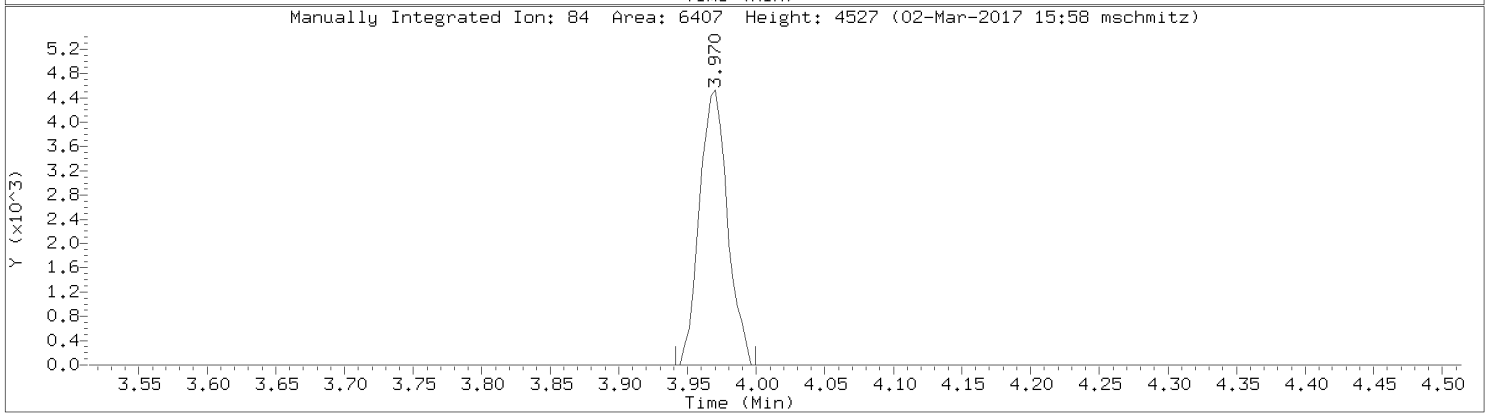
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Methylene chloride
CAS Number: 75-09-2

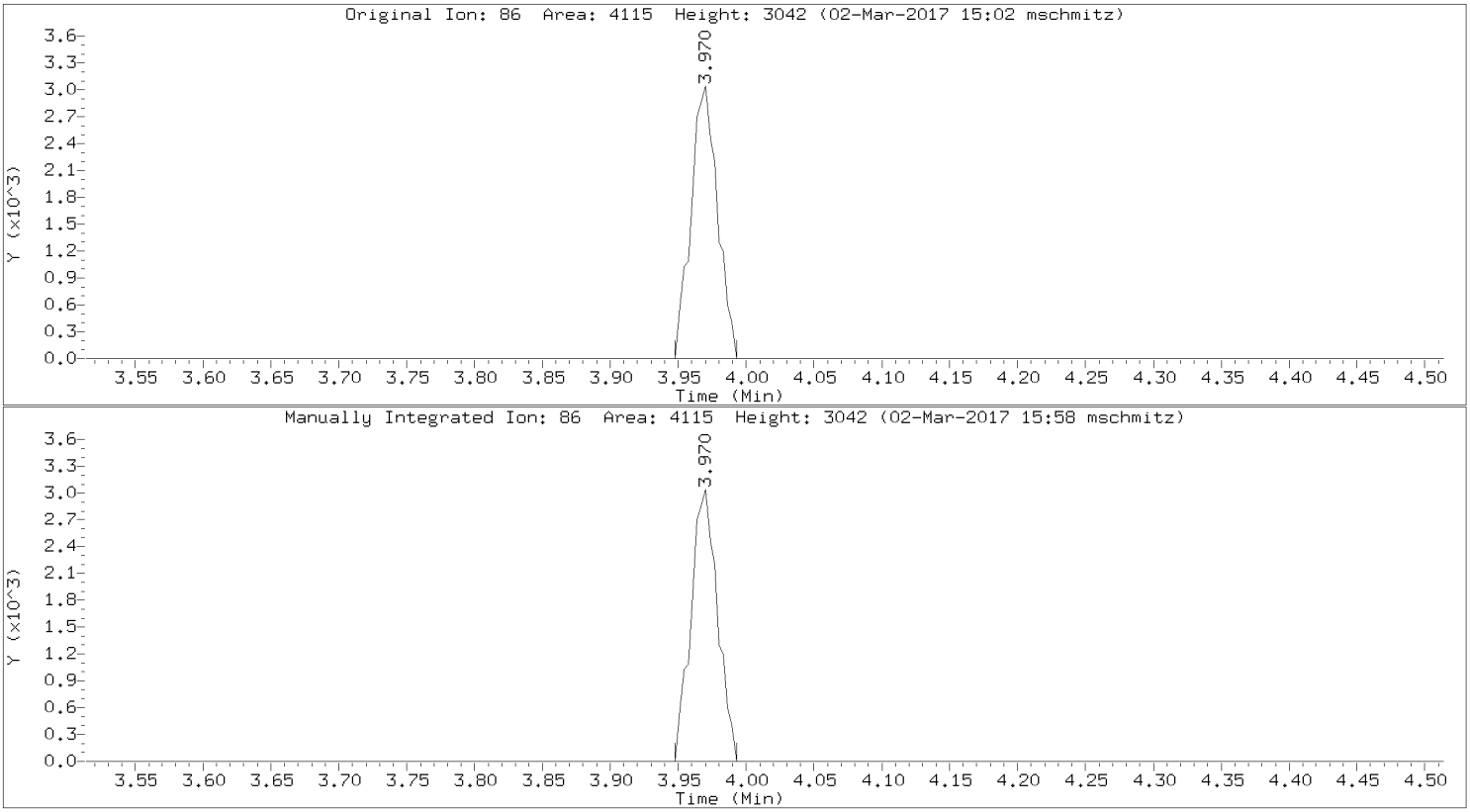






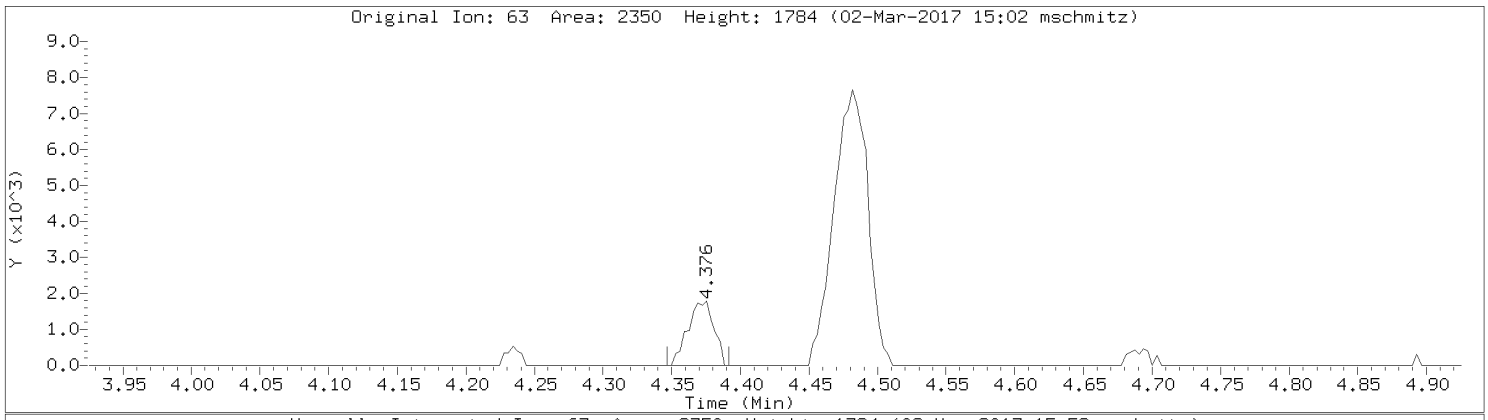


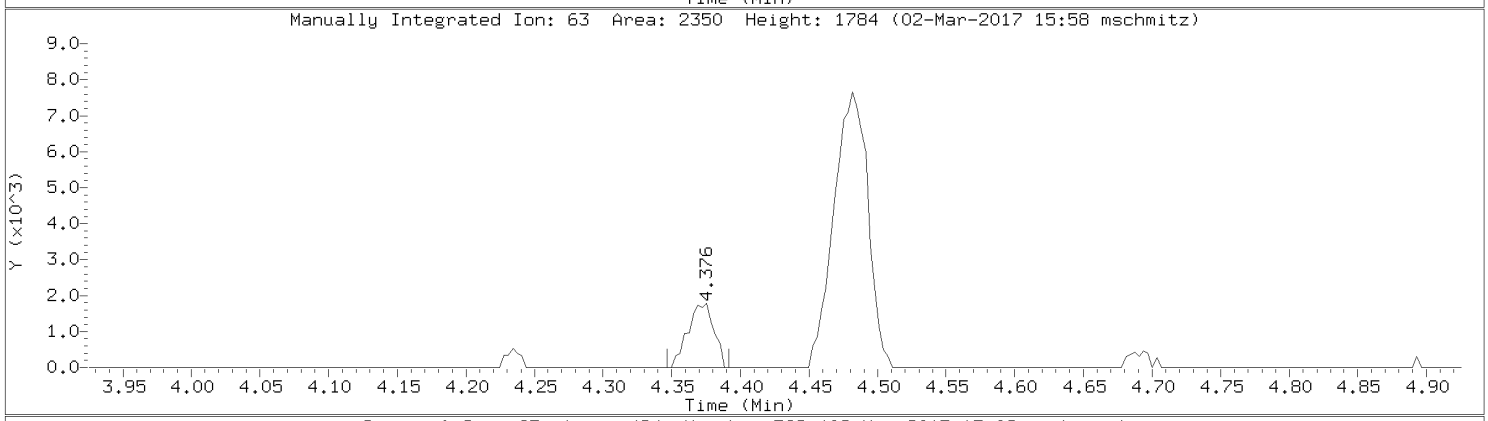
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

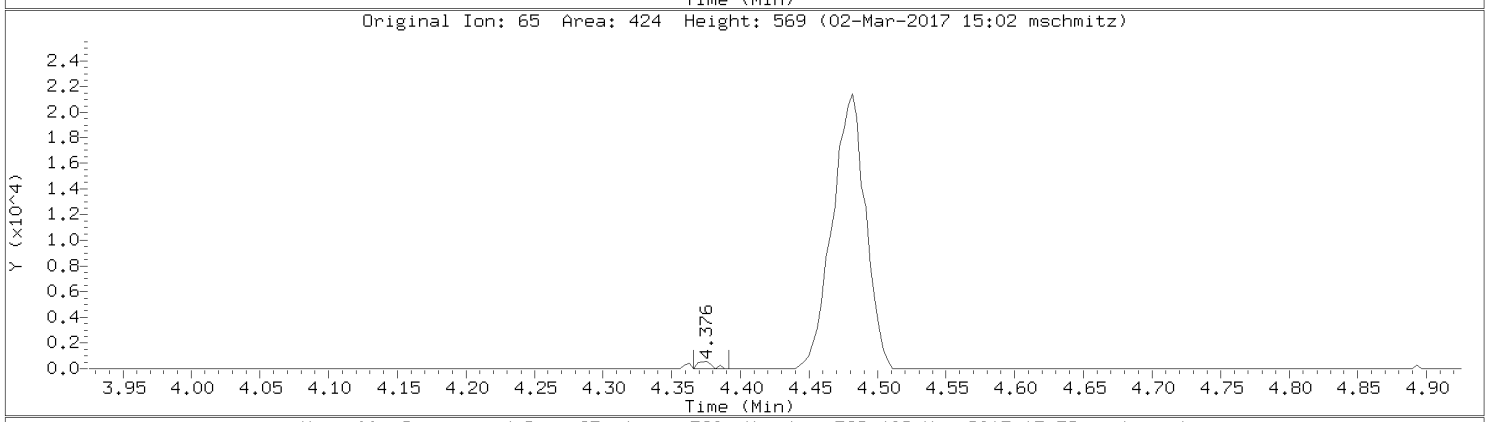


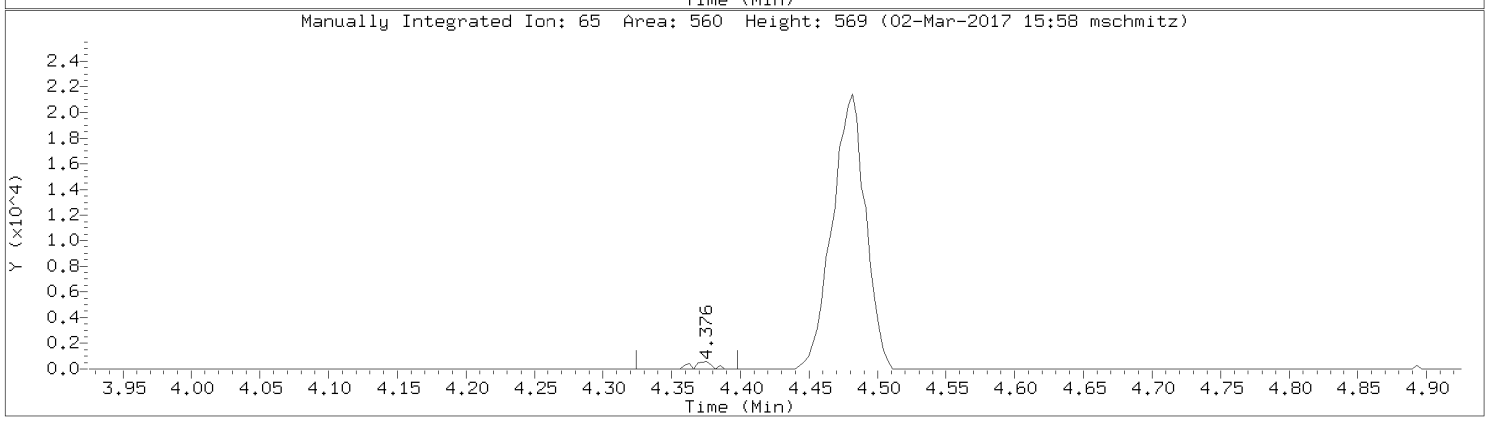
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,1-Dichloroethane
CAS Number: 75-34-3



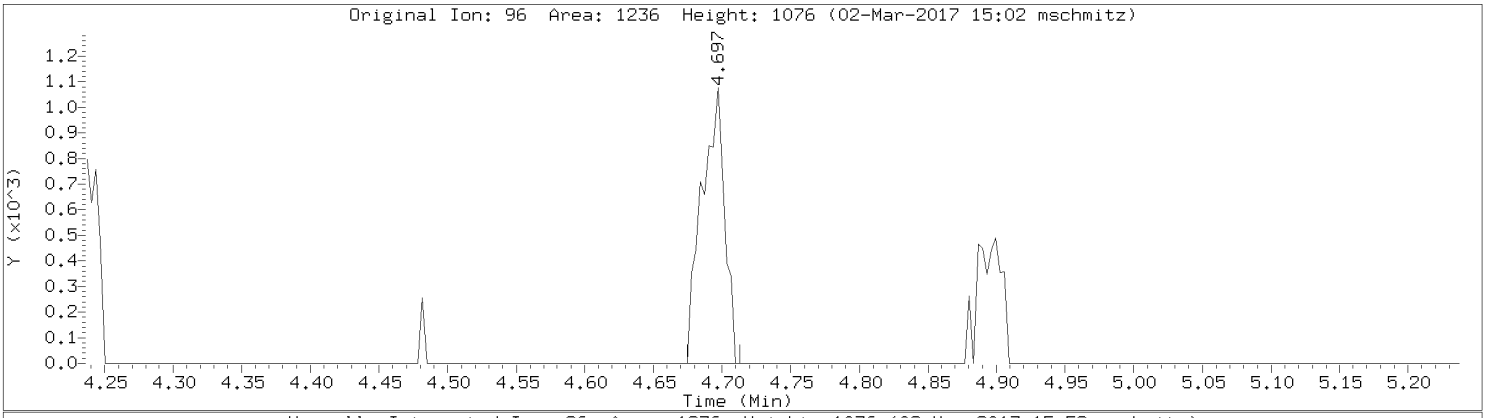


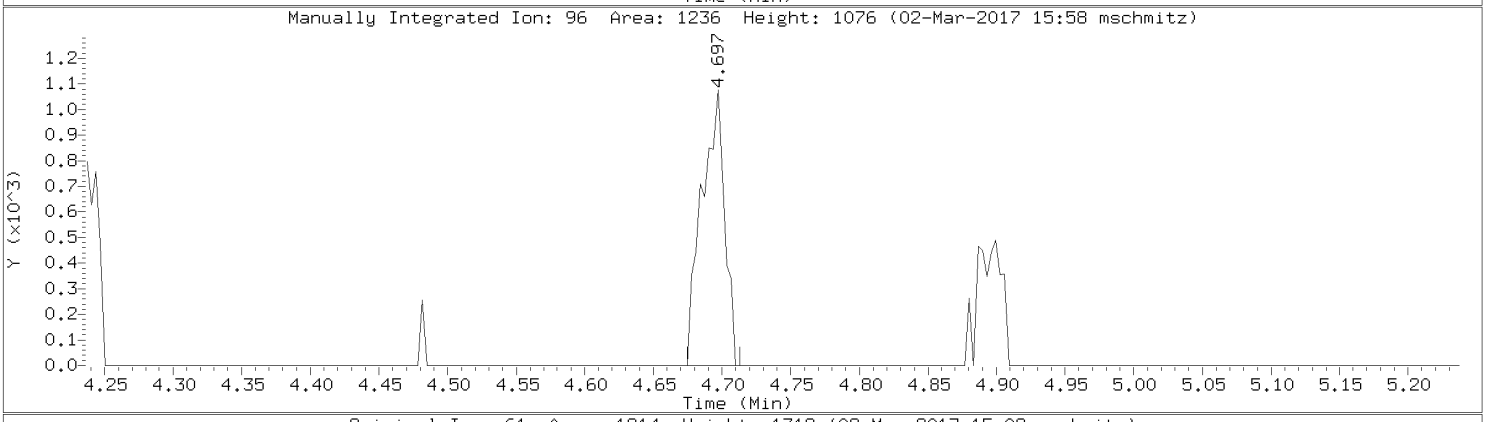


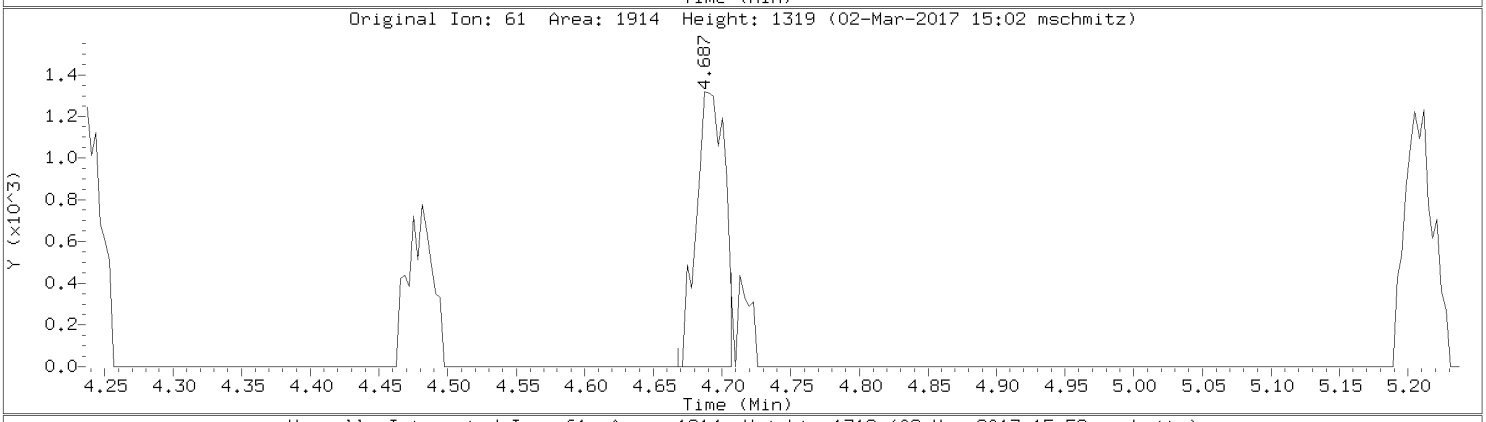


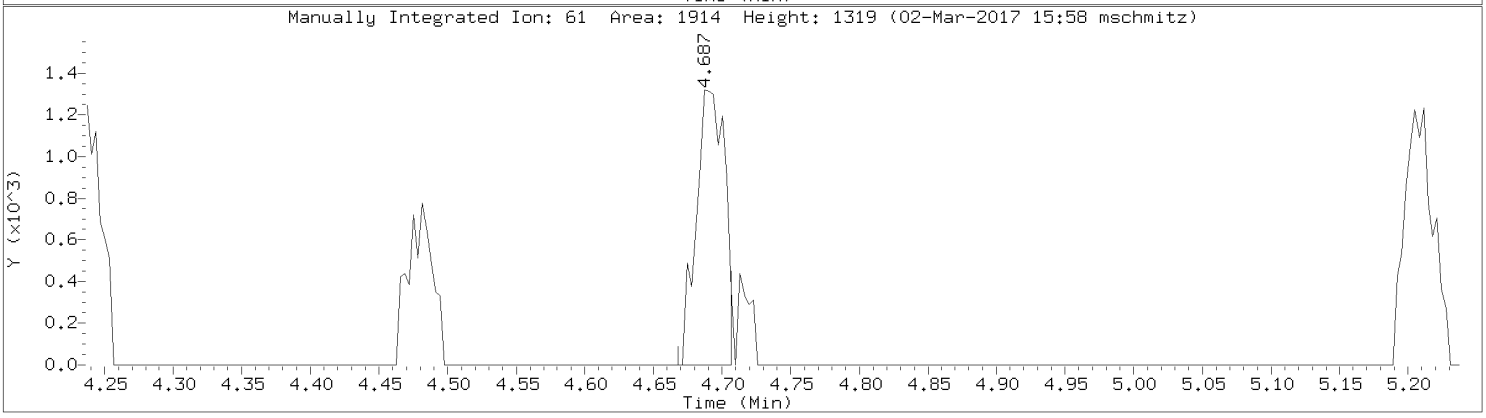
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: cis-1,2-Dichloroethene
CAS Number: 156-59-2

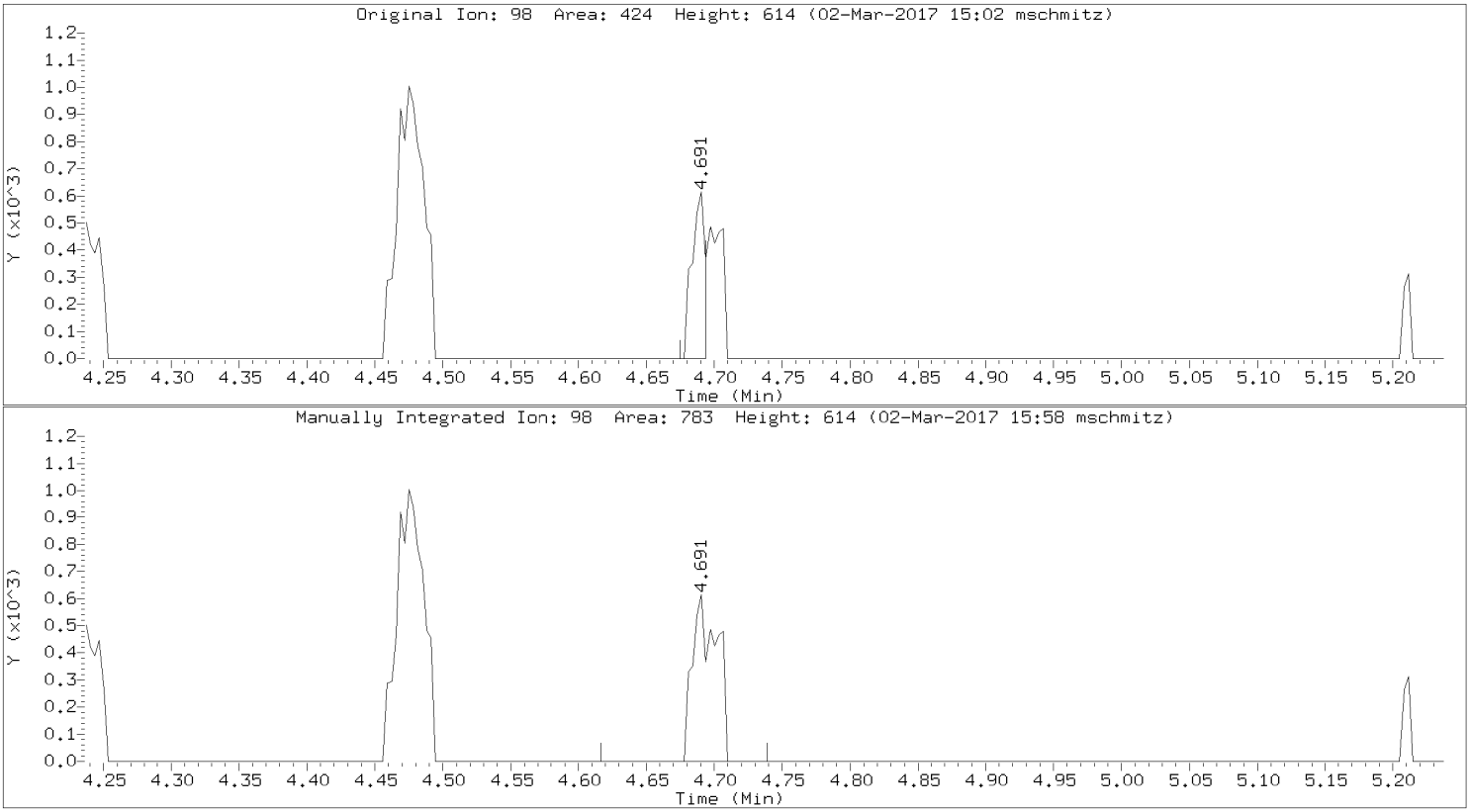






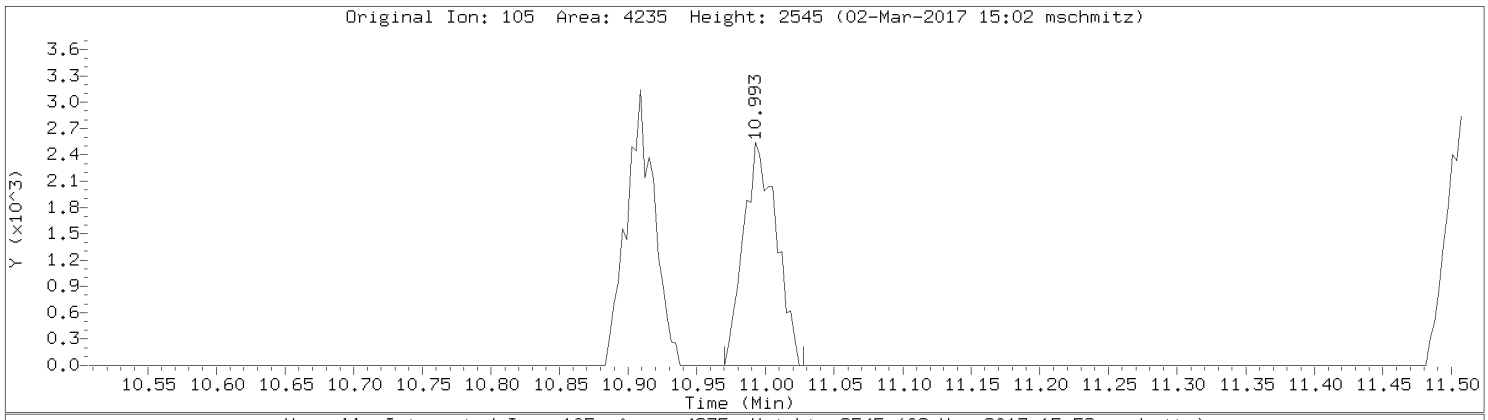


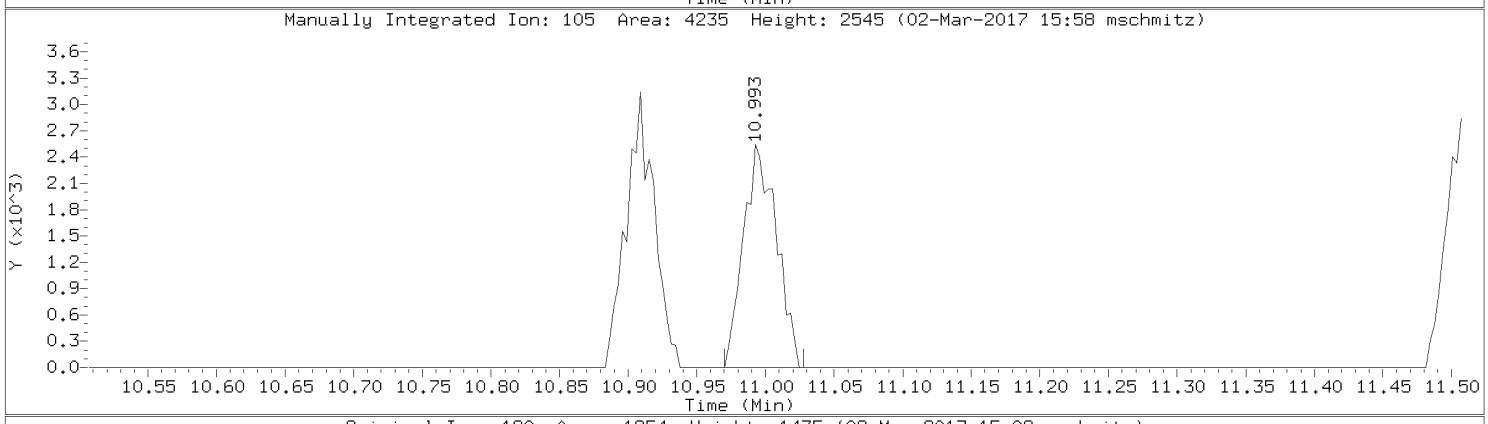
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

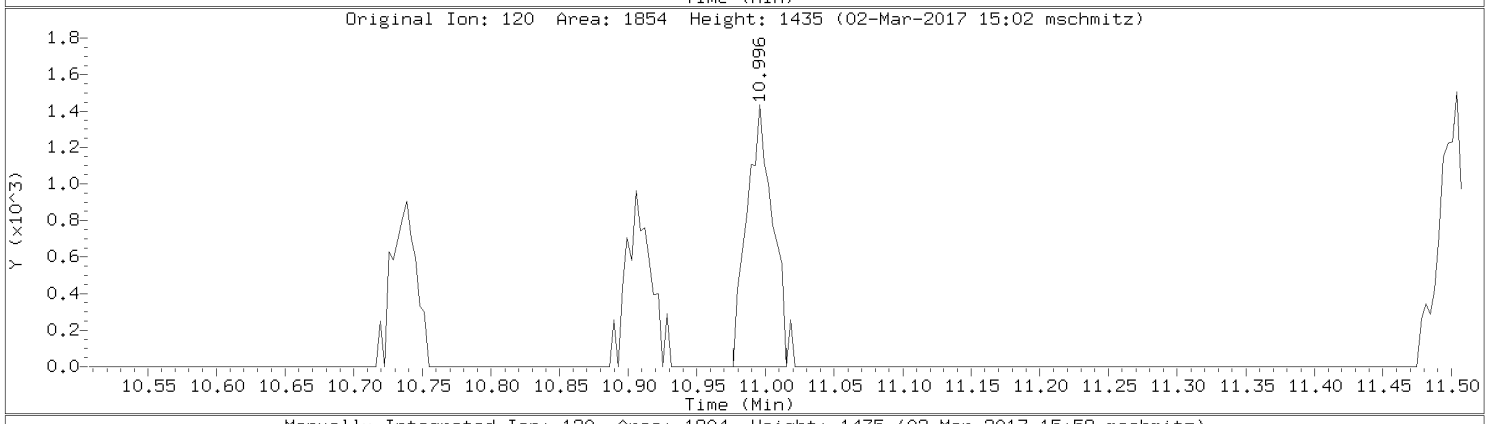


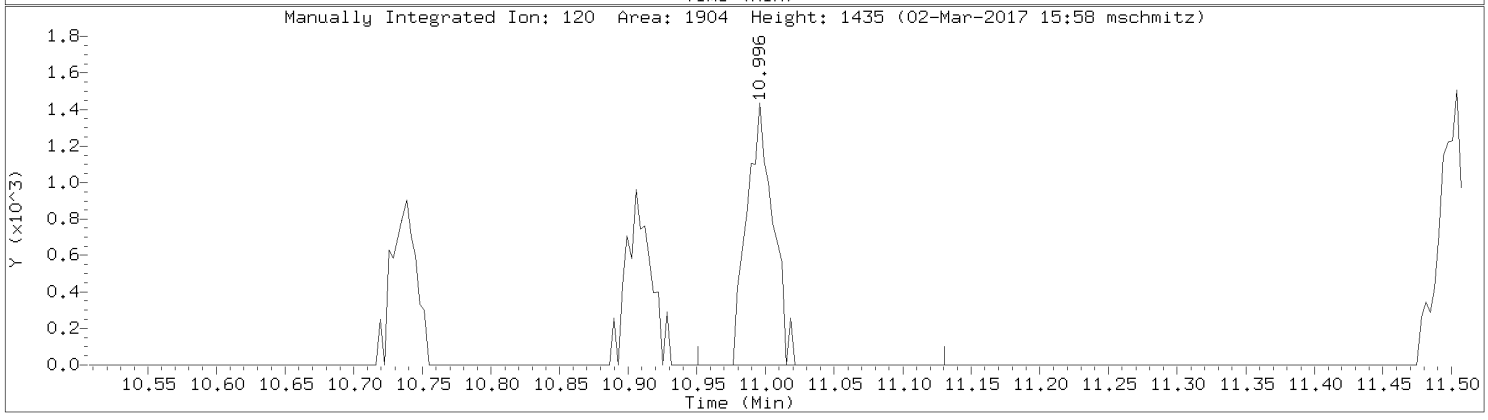
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



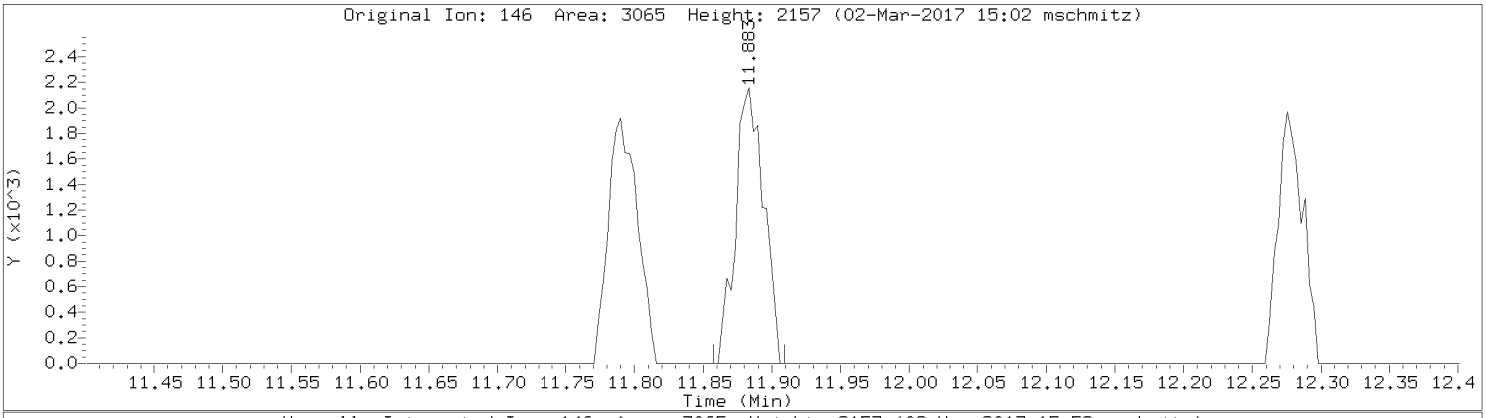


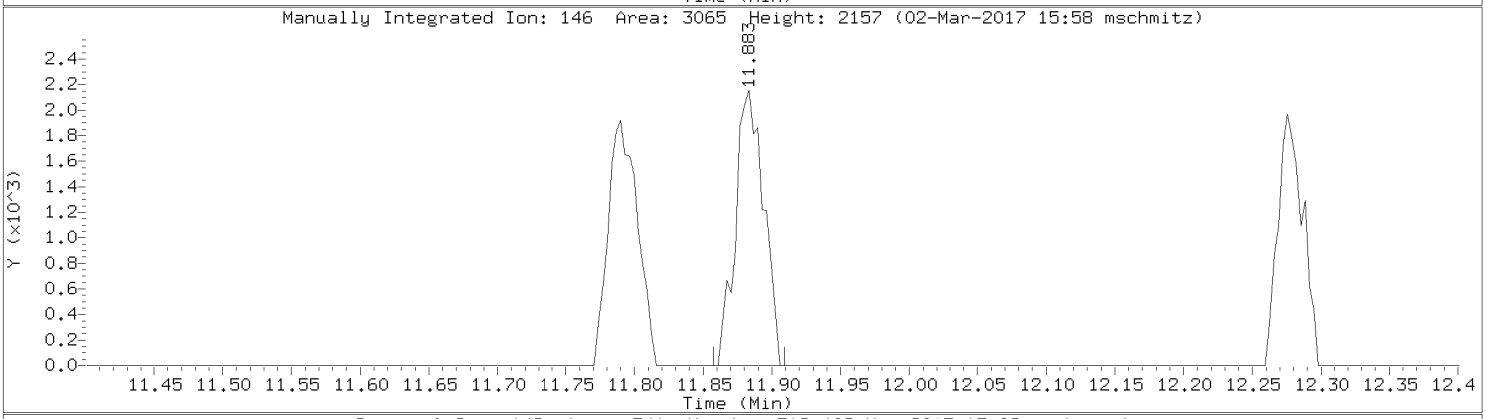


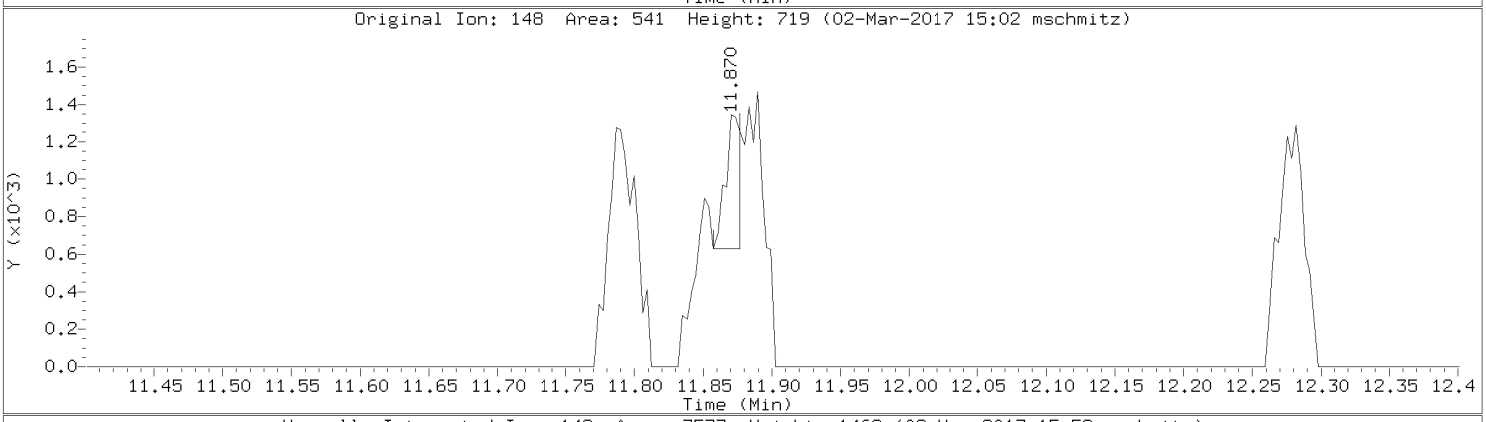


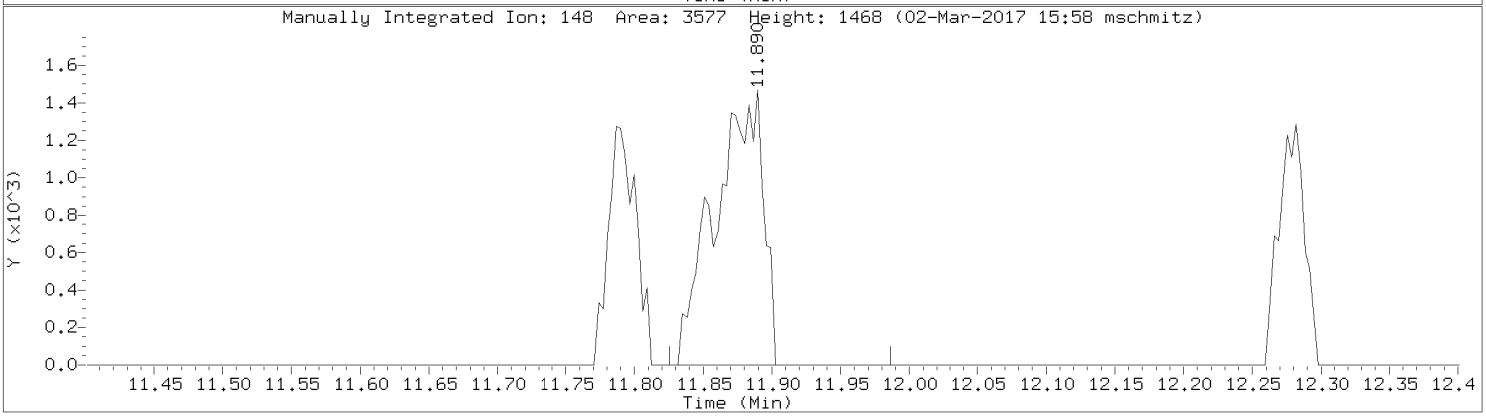
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

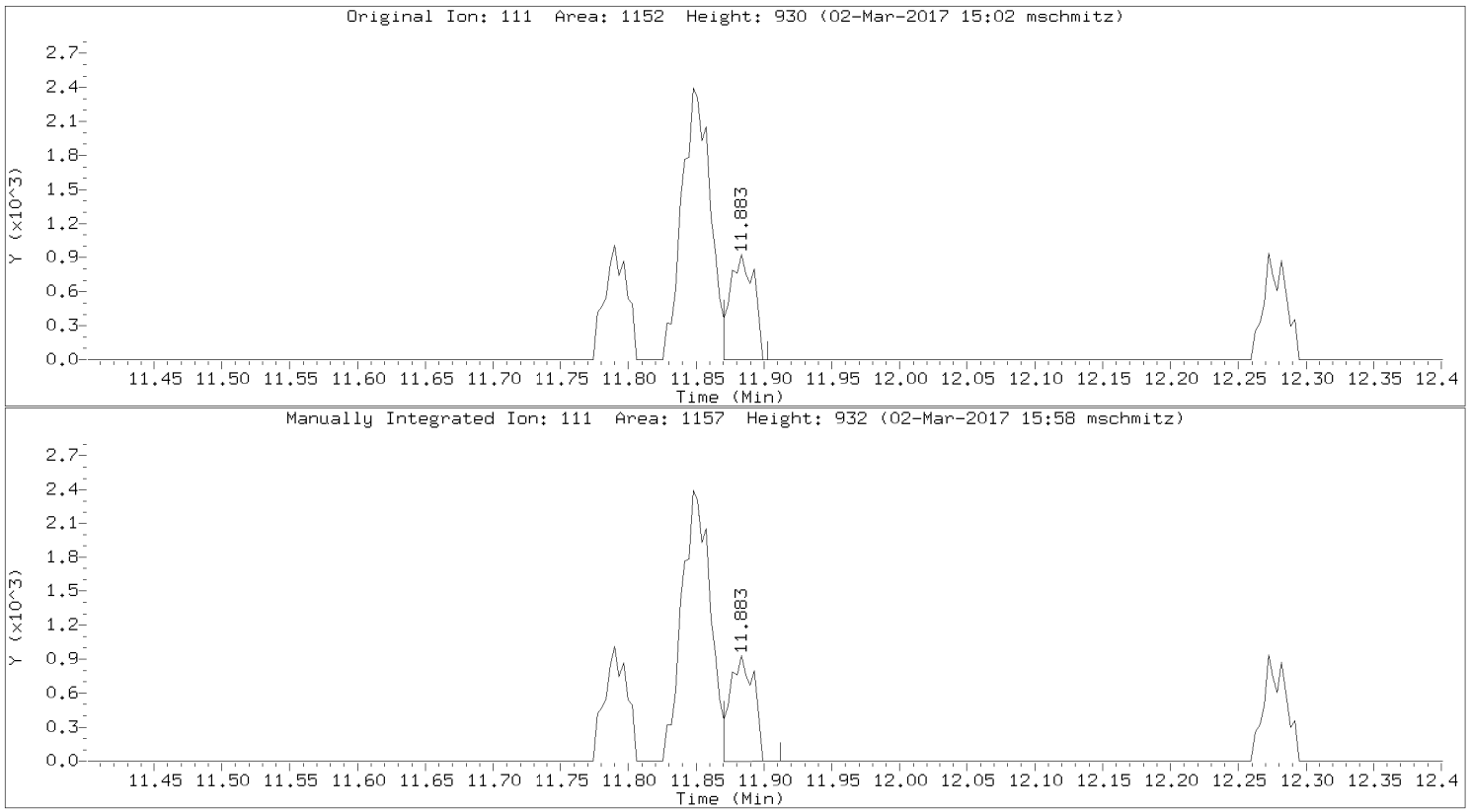






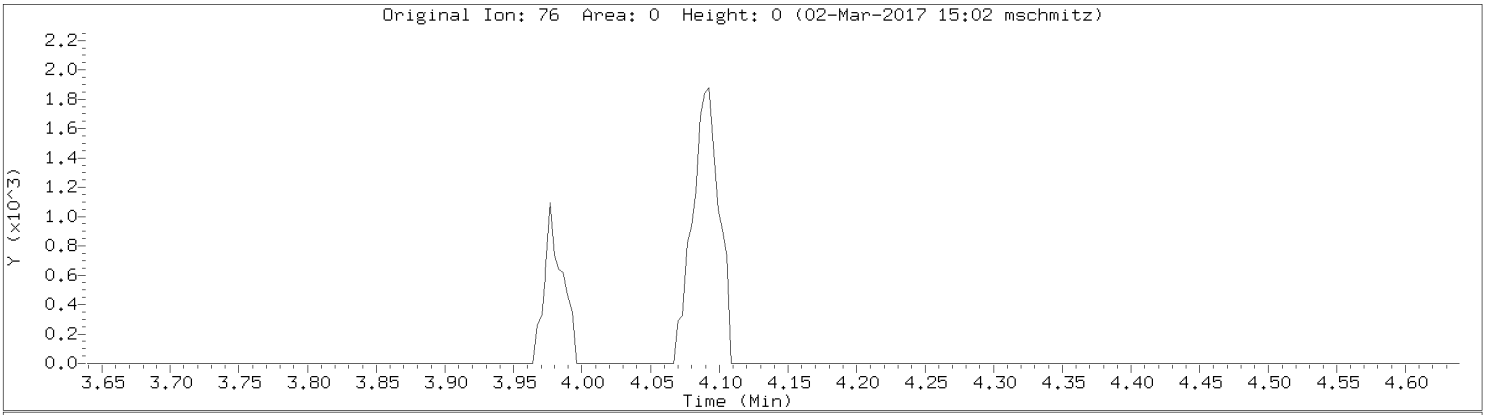


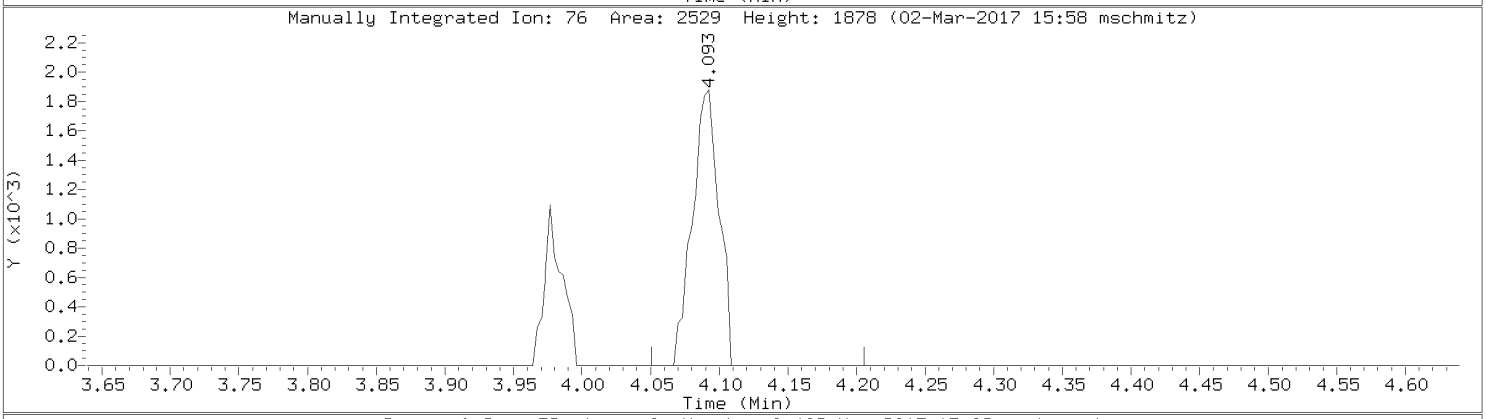
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

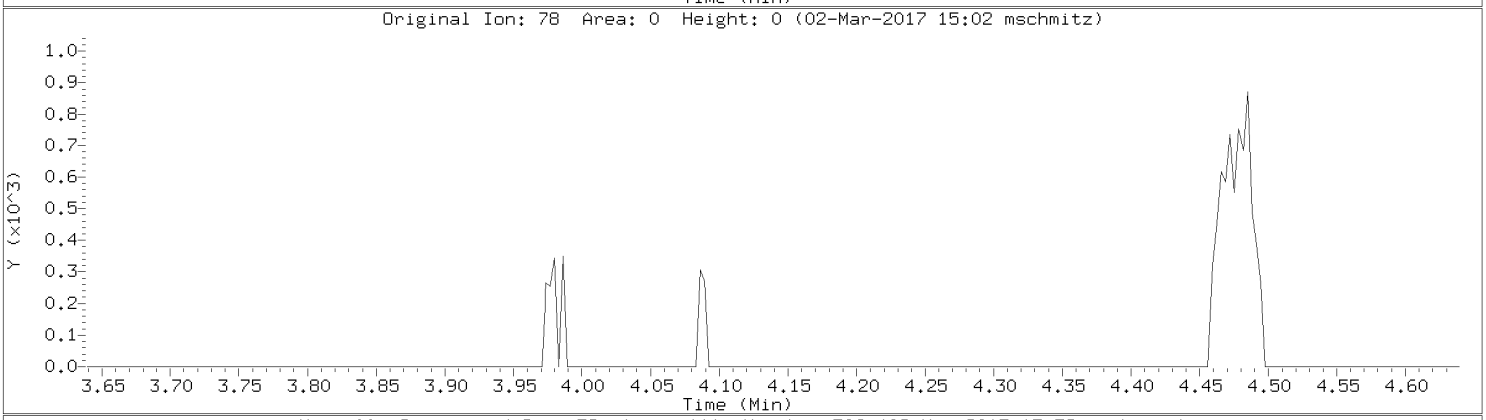


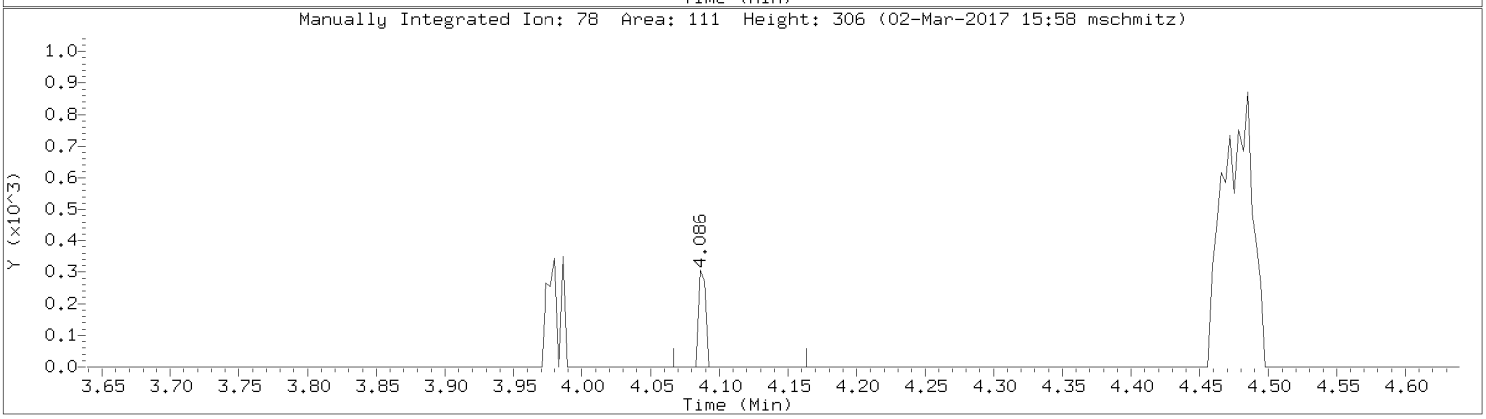
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Carbon Disulfide
CAS Number: 75-15-0



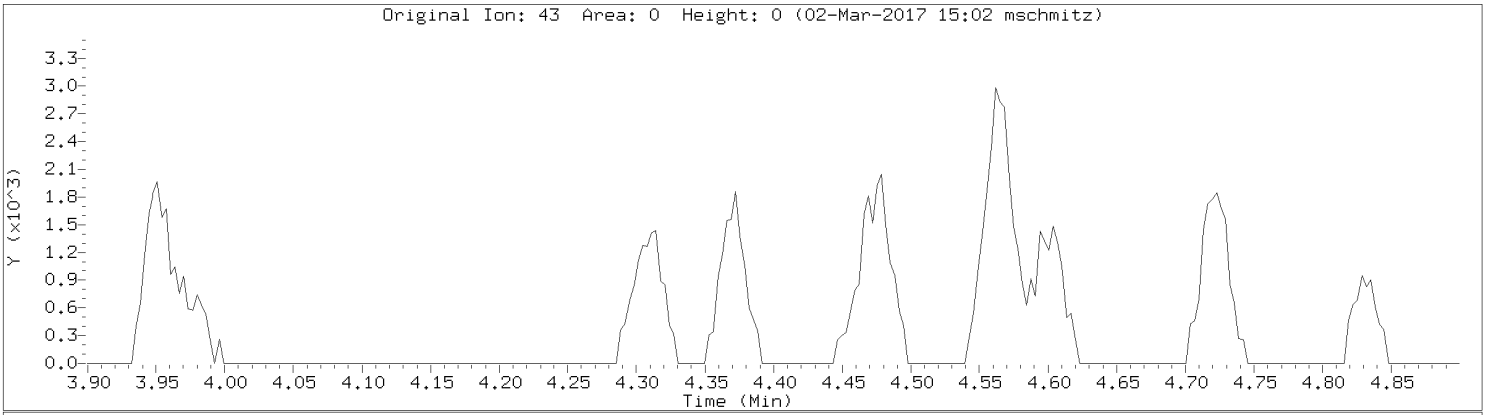


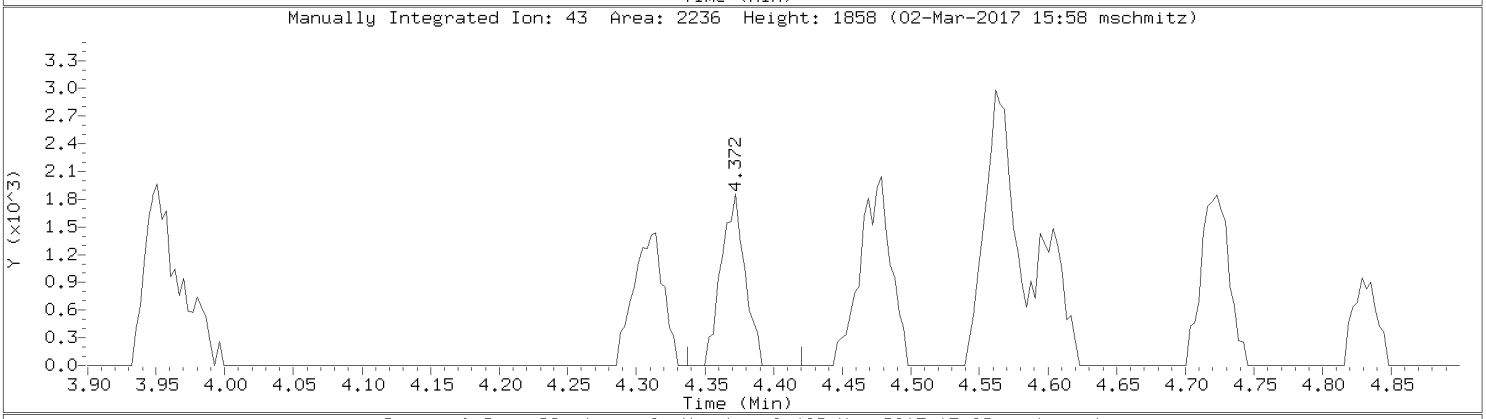


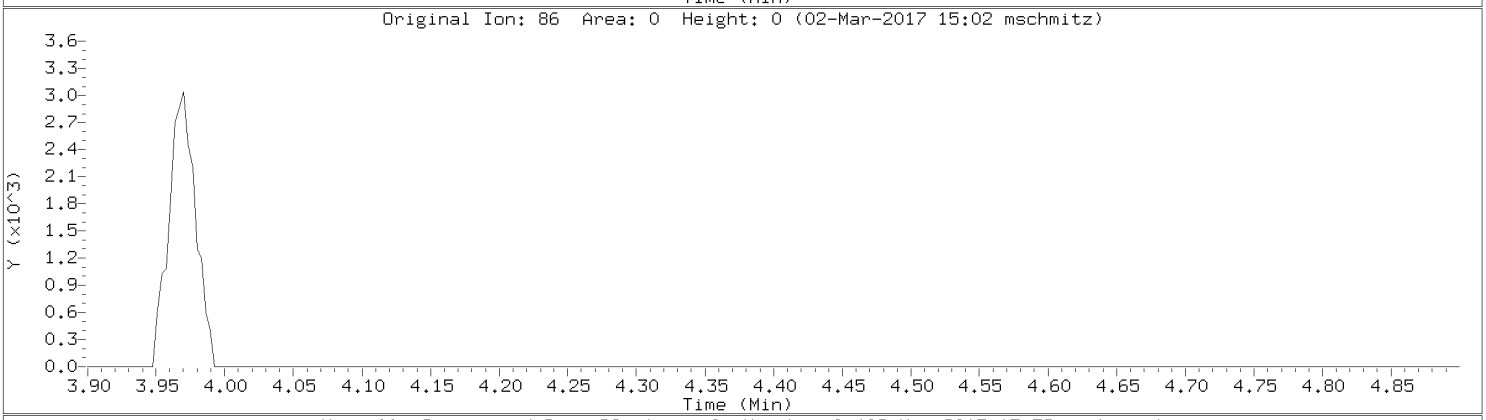


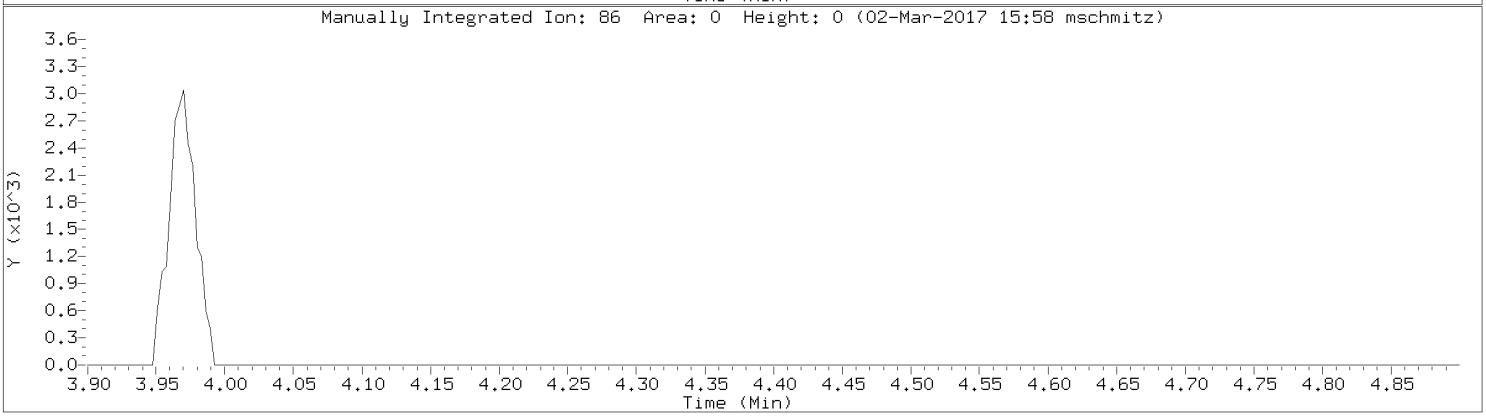
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Vinyl Acetate
CAS Number: 108-05-4



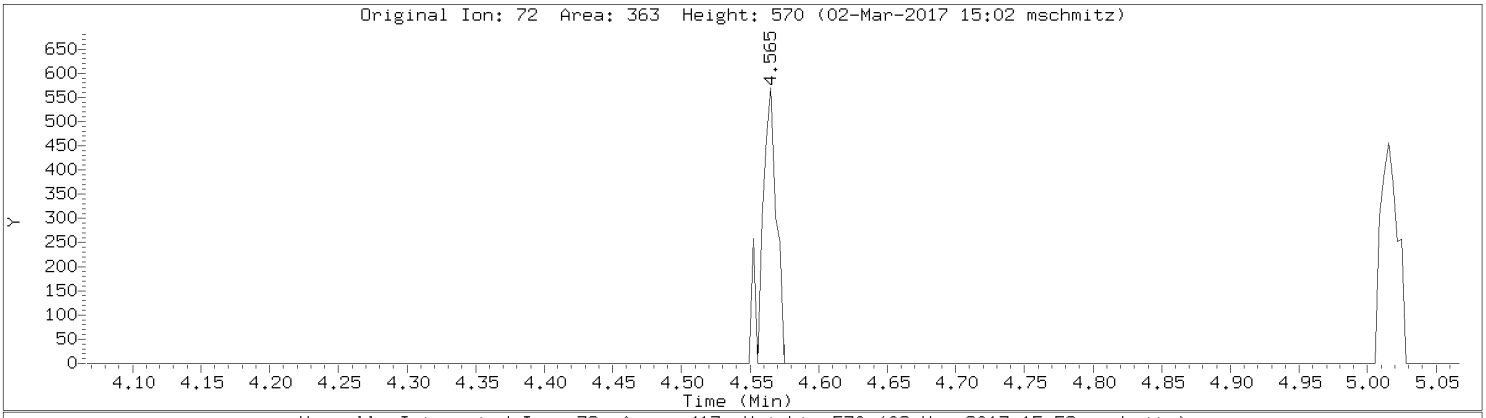


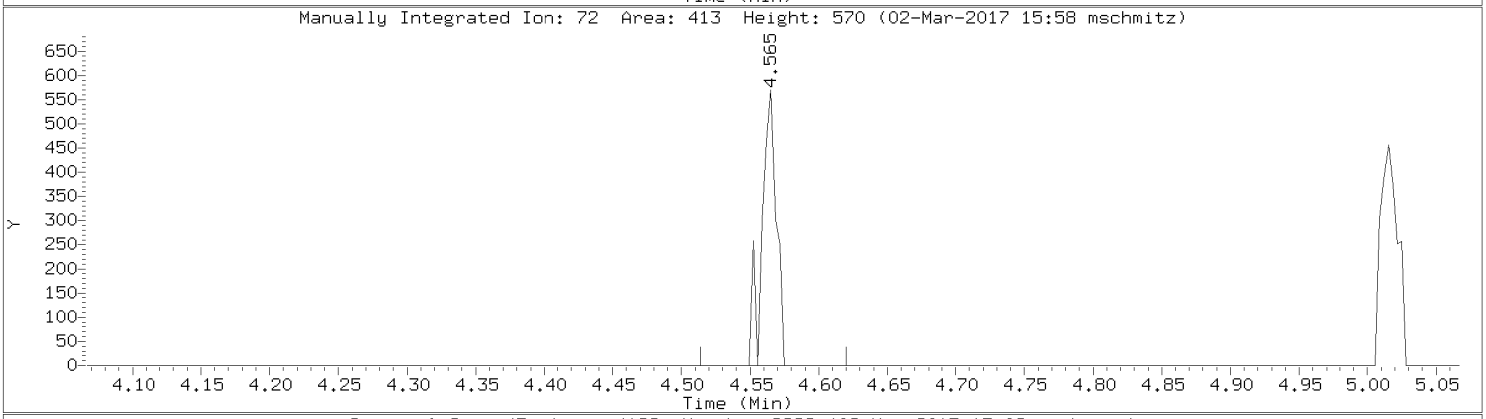


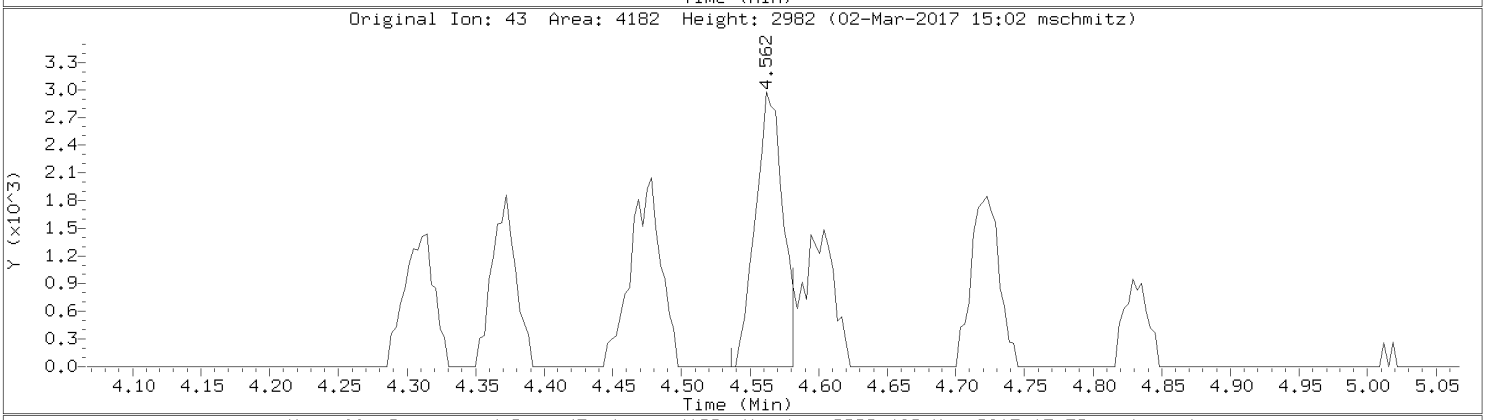


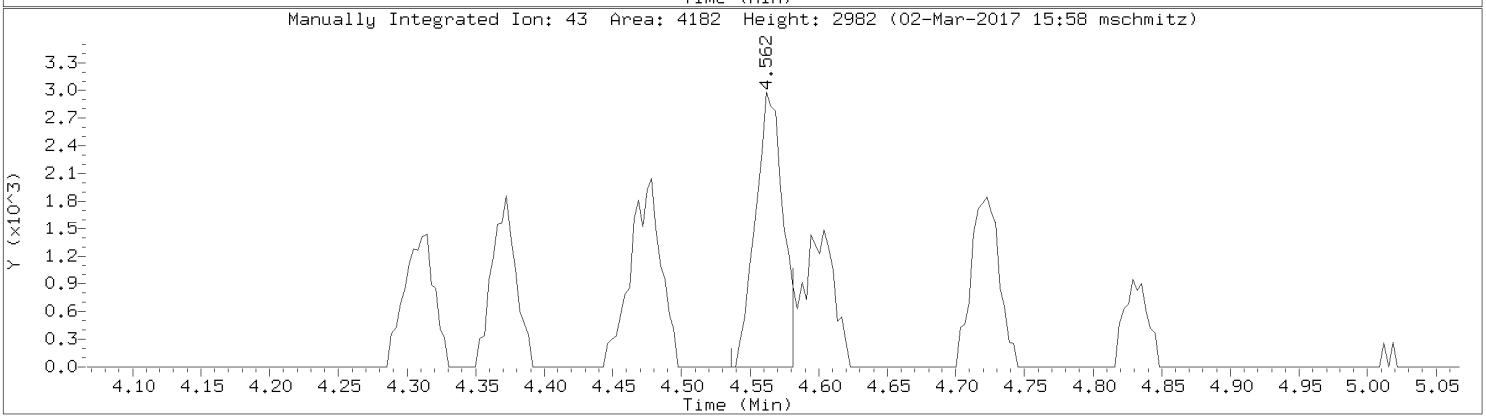
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



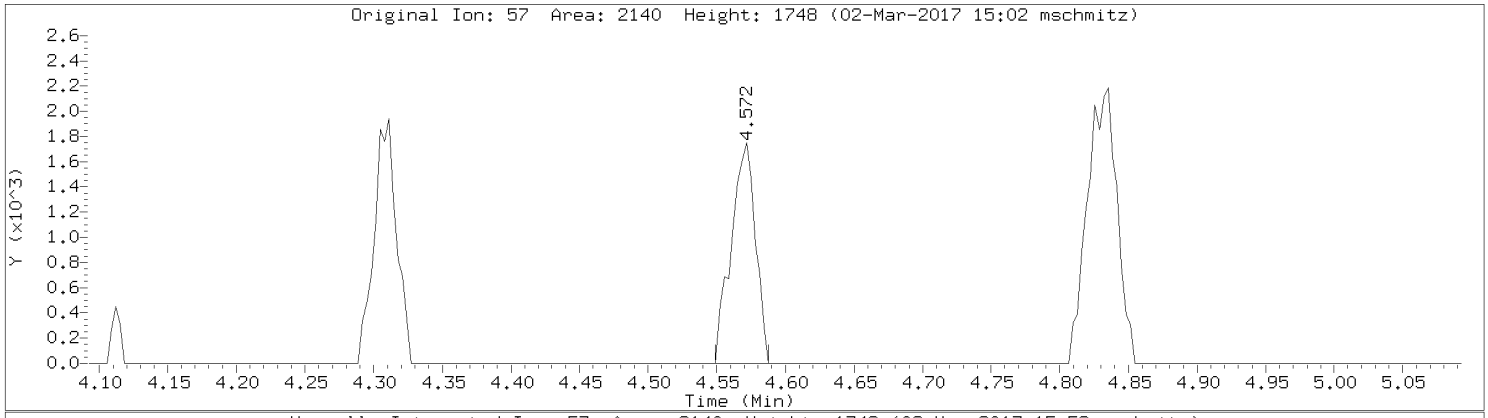


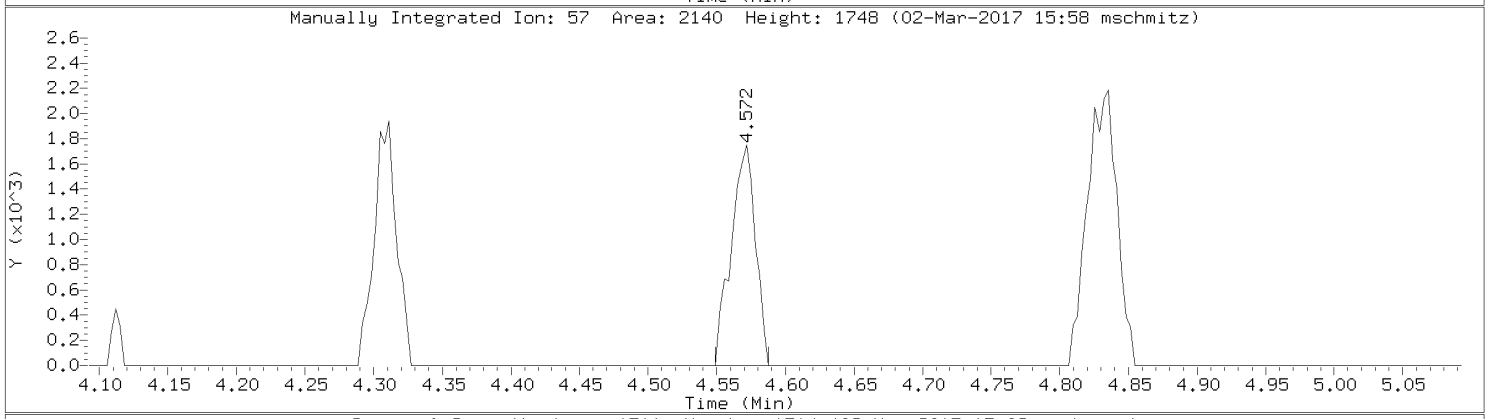


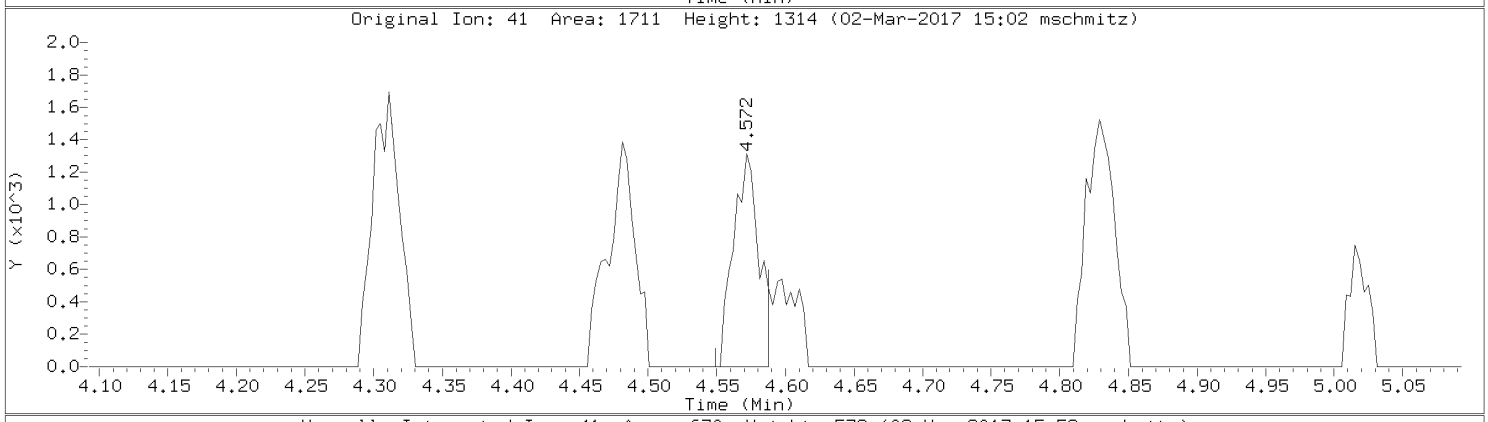


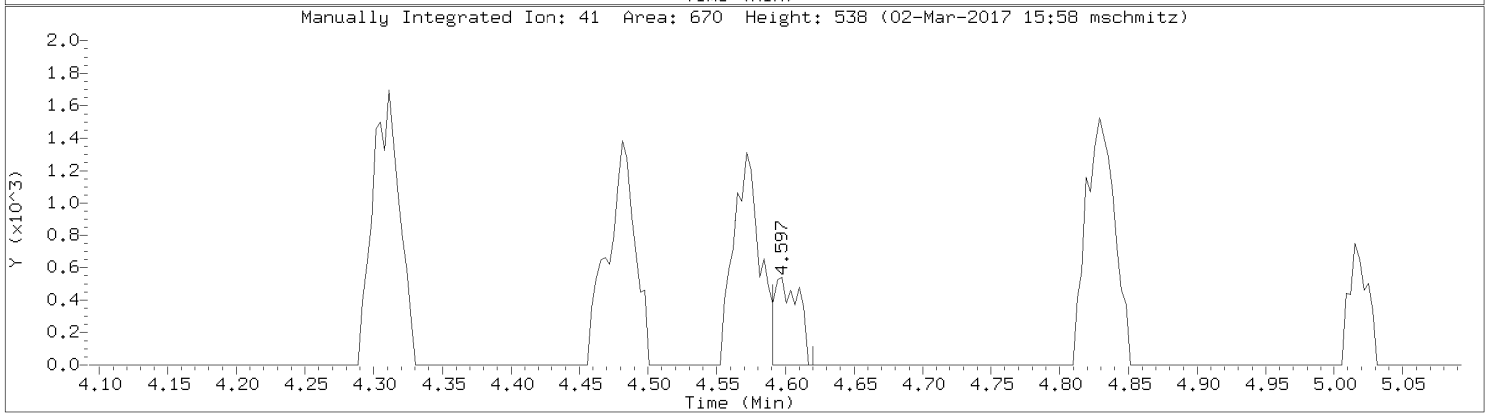
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: n-Hexane
CAS Number: 110-54-3

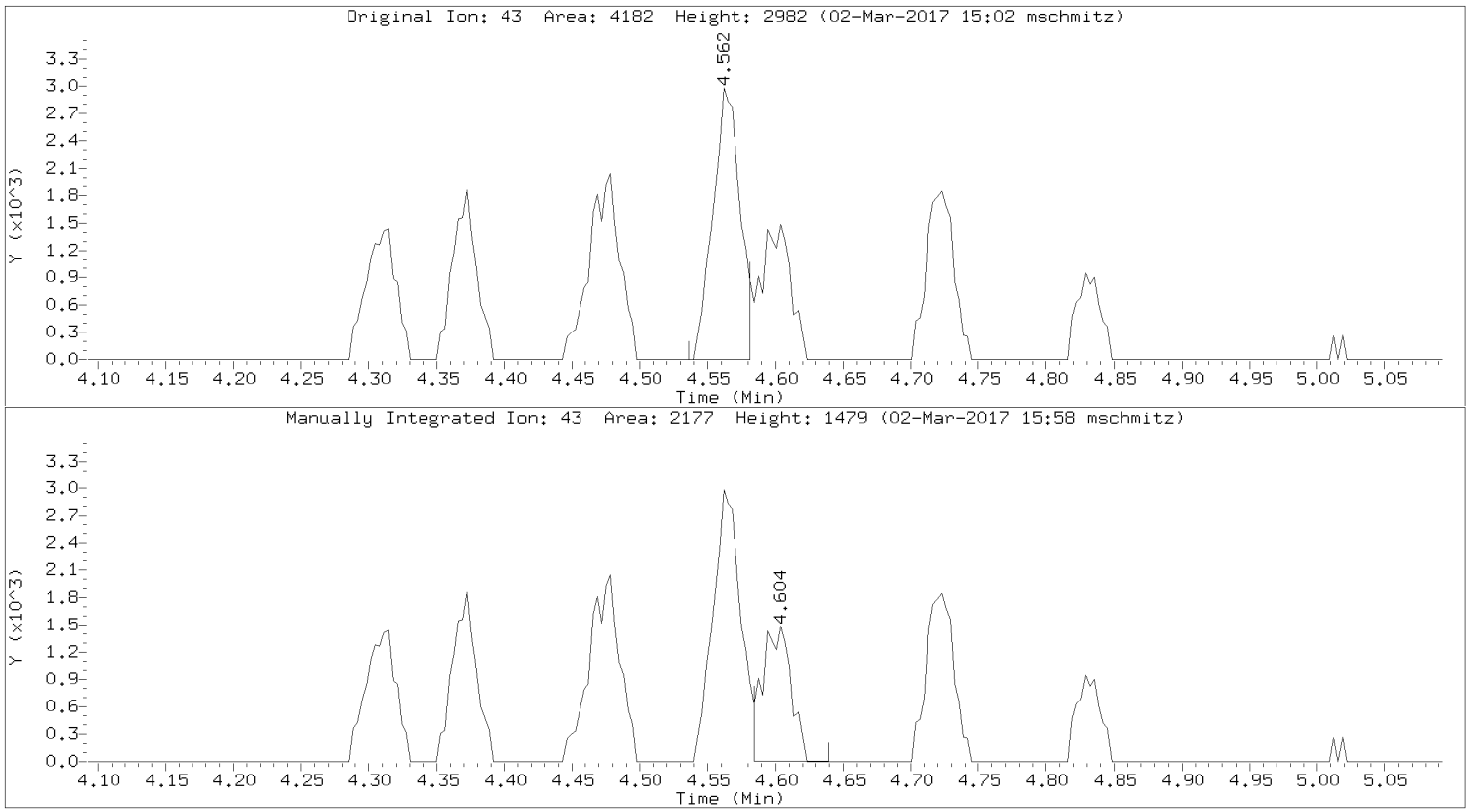






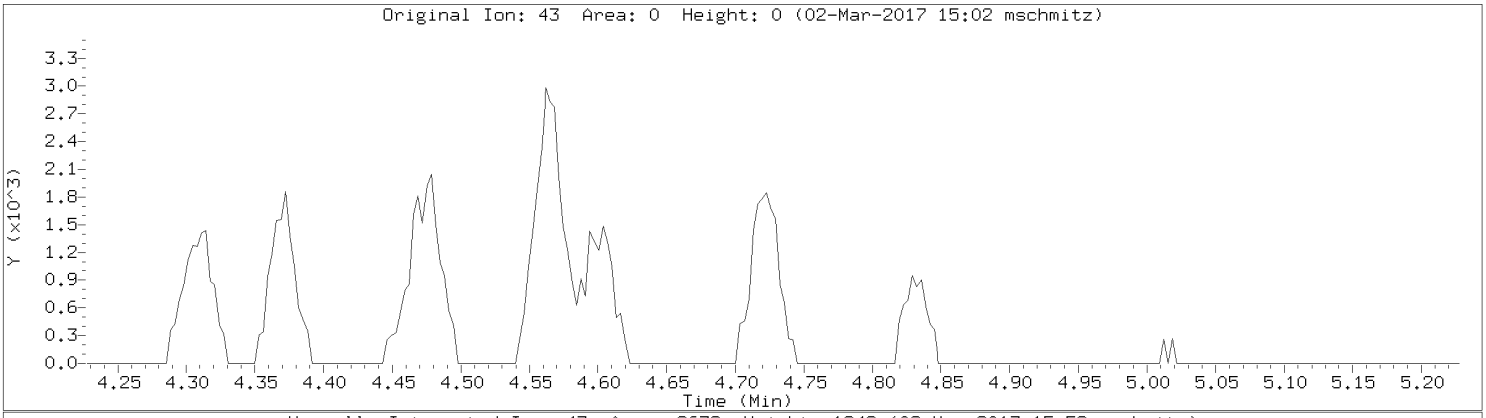


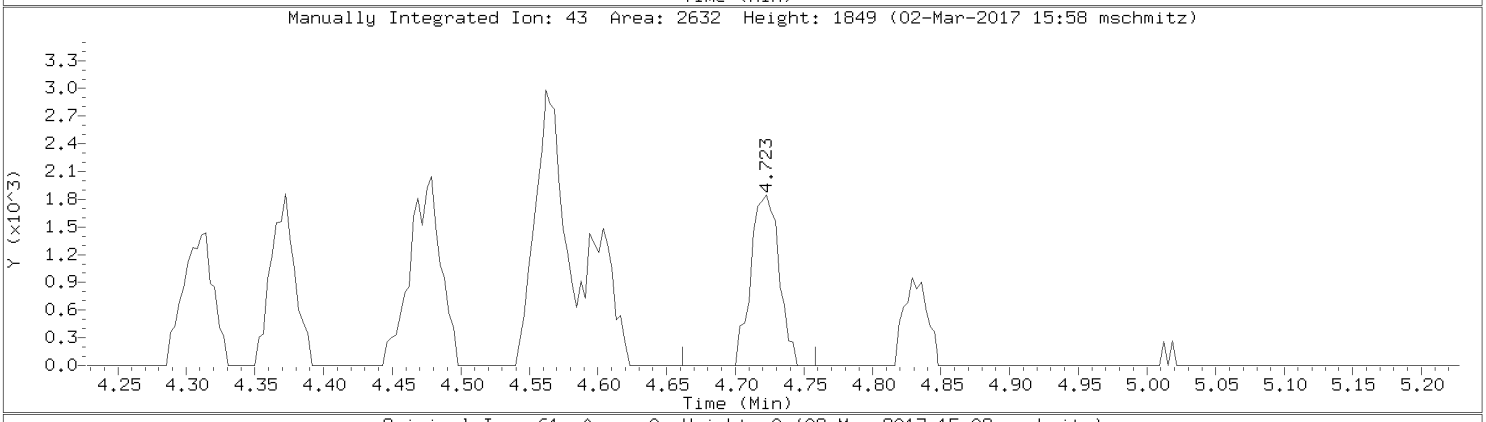
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

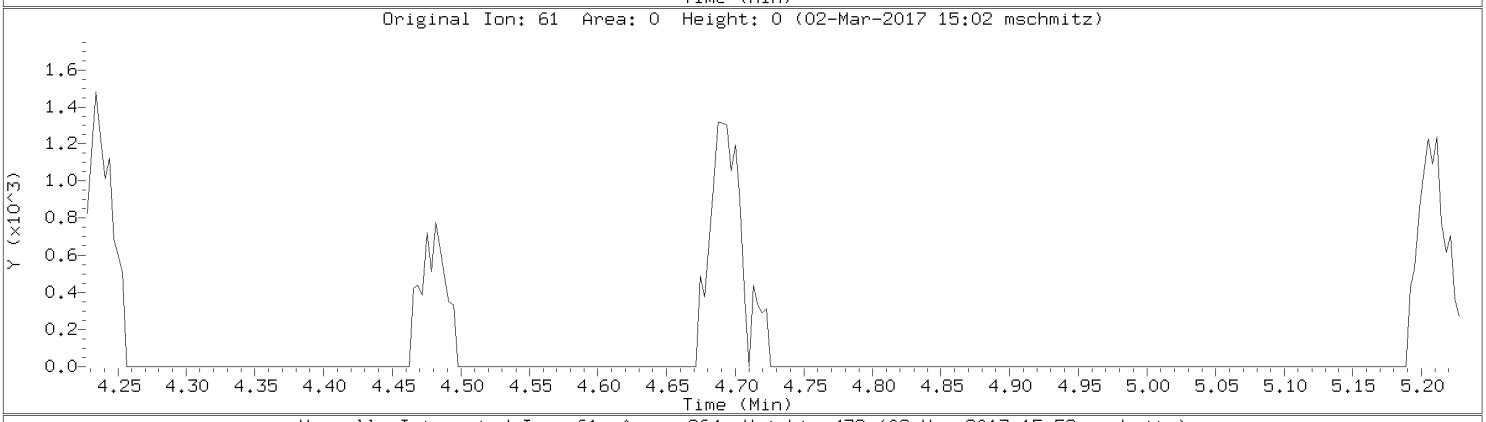


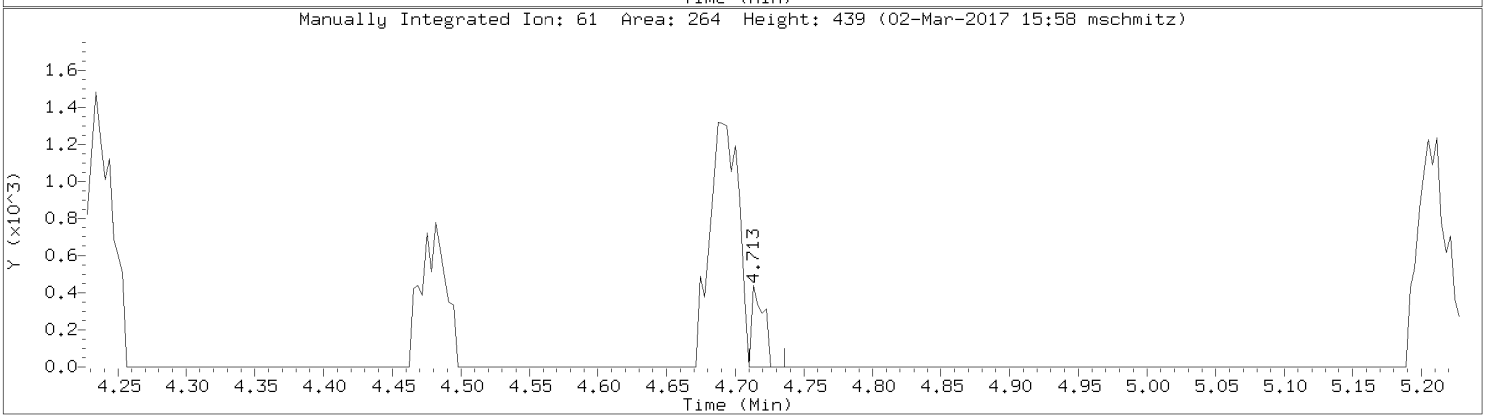
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Ethyl Acetate
CAS Number: 141-78-6

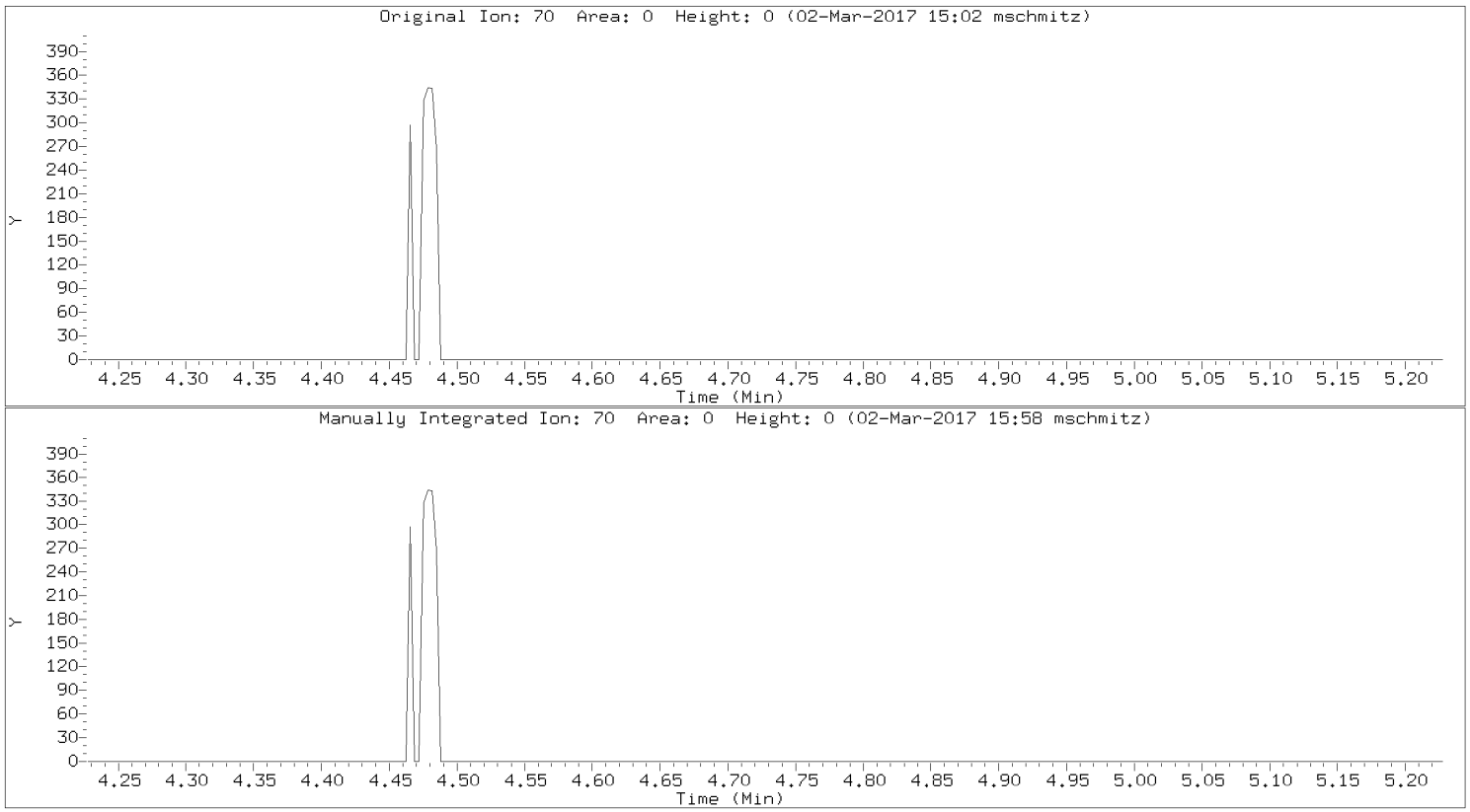






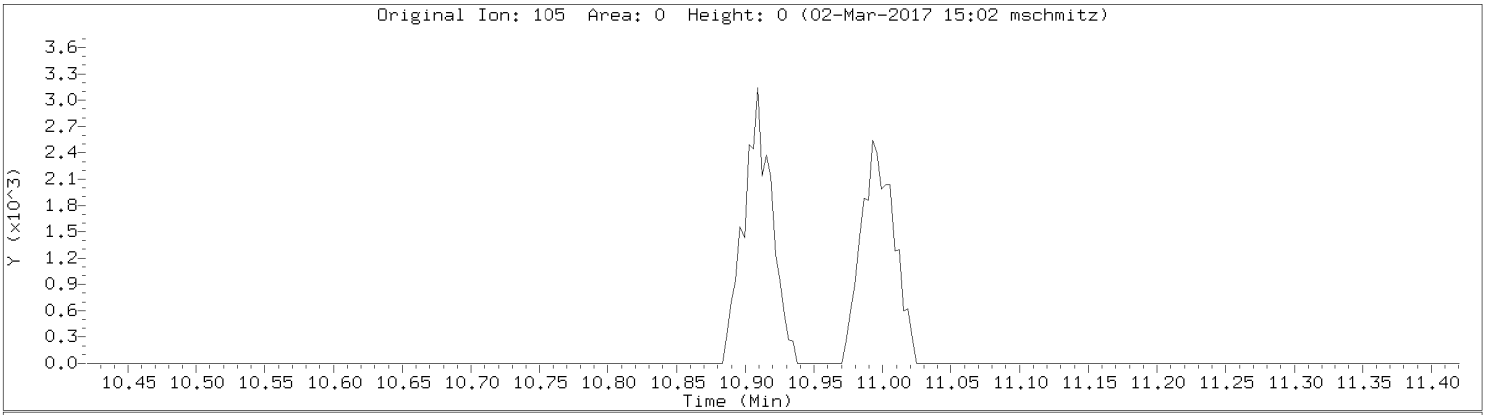


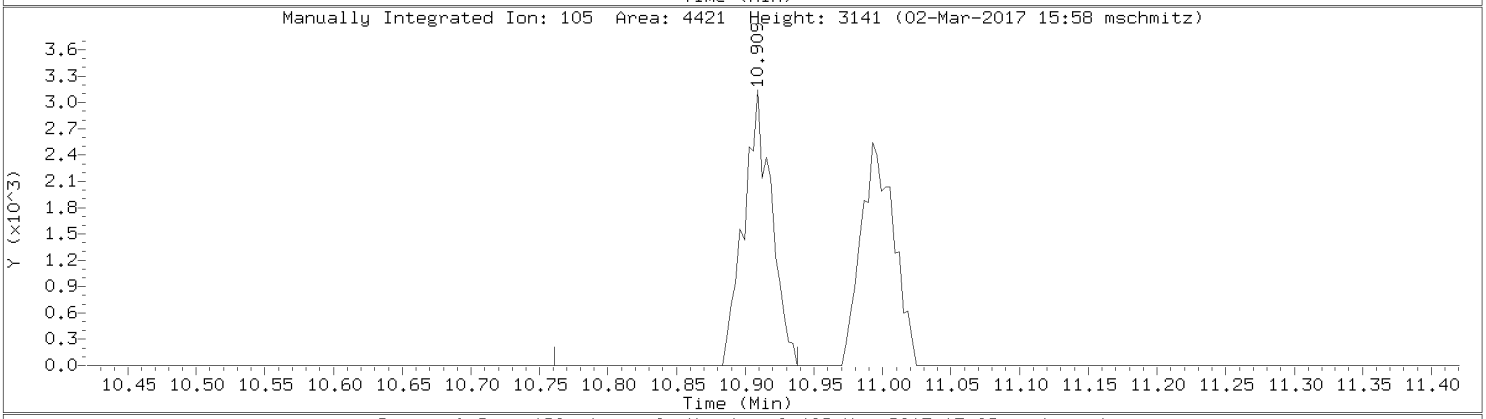
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

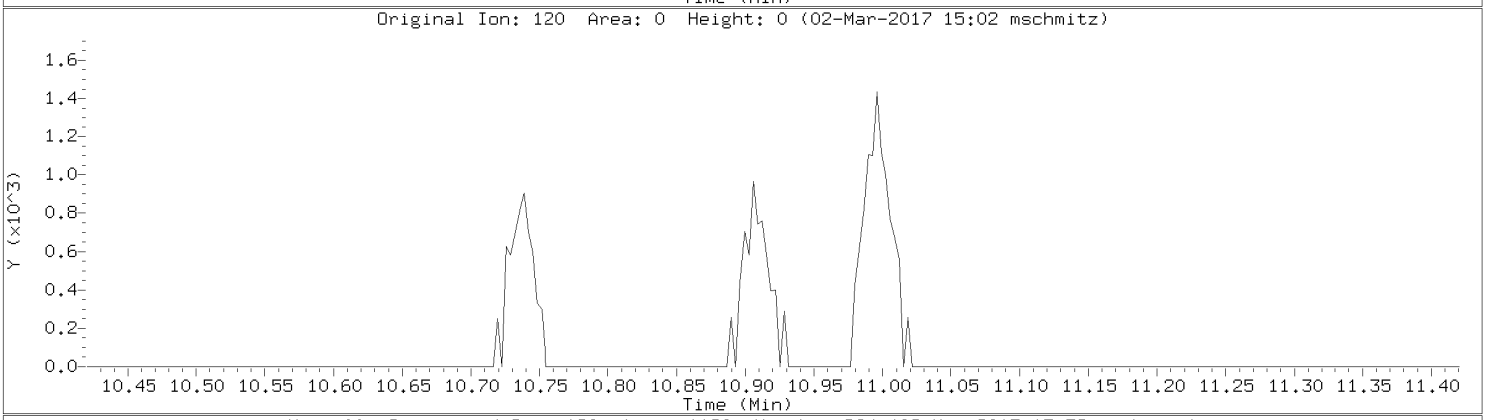


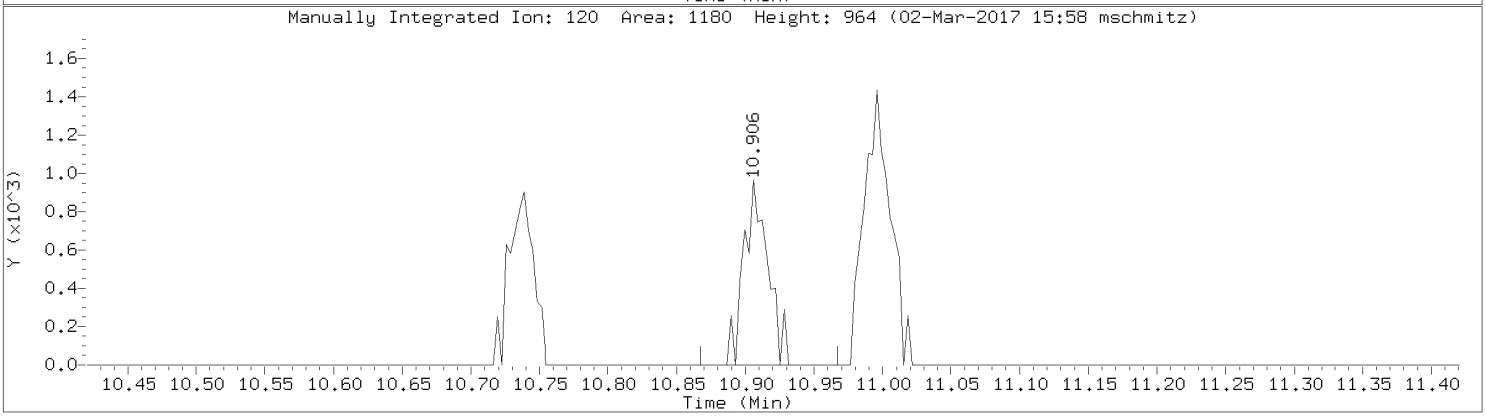
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

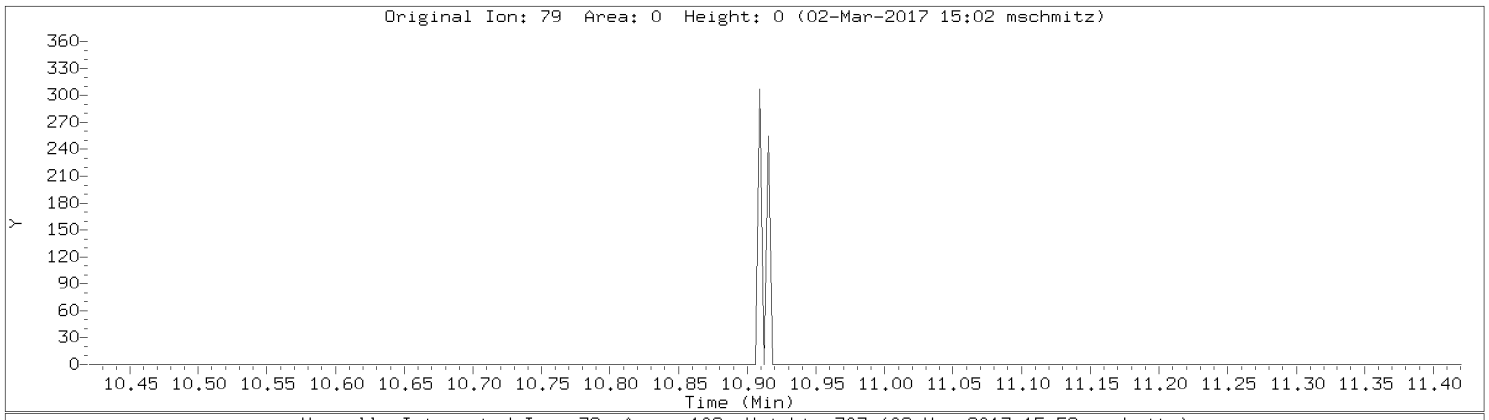


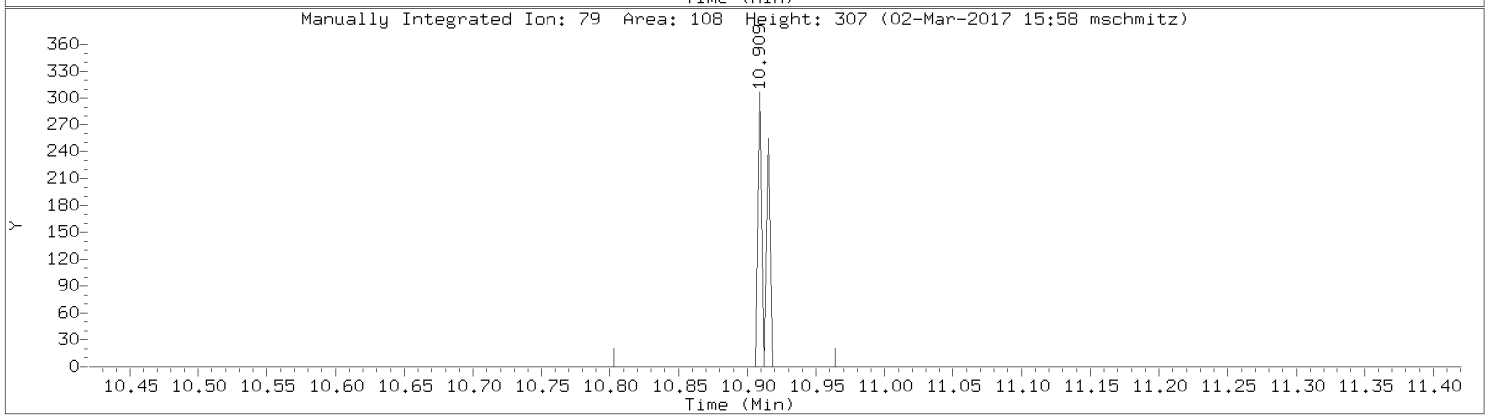






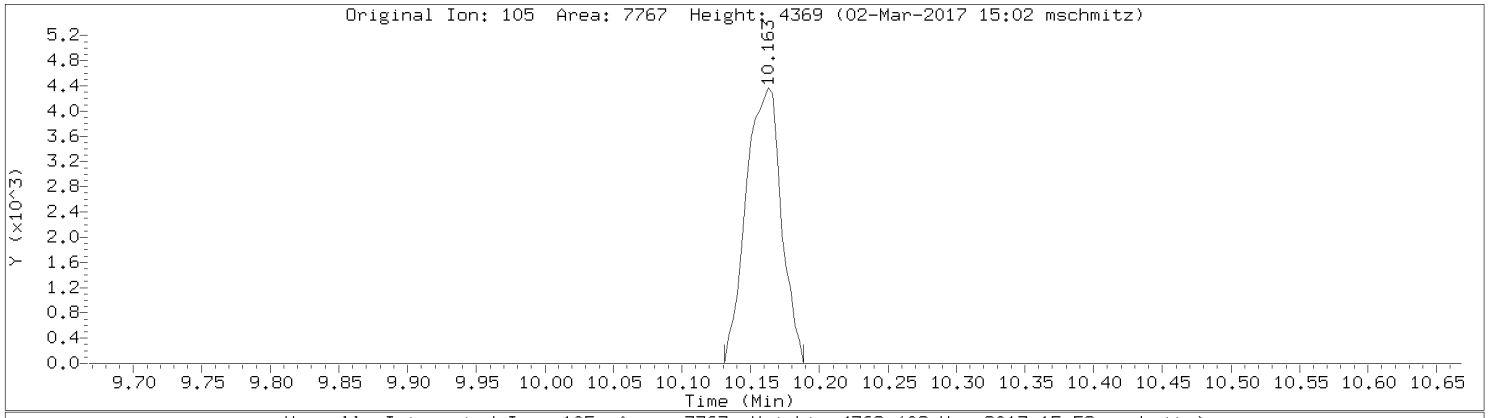
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

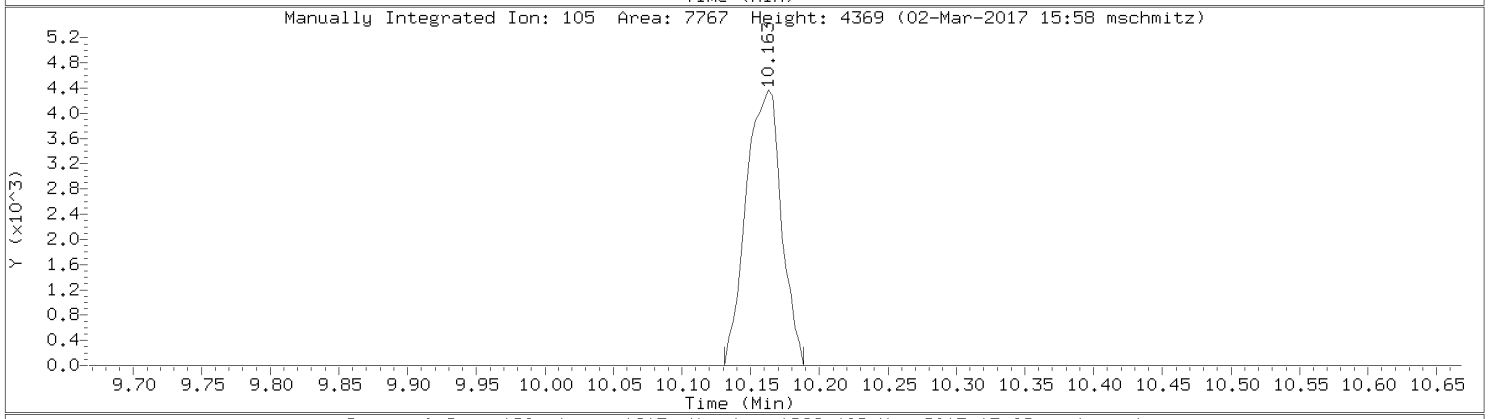


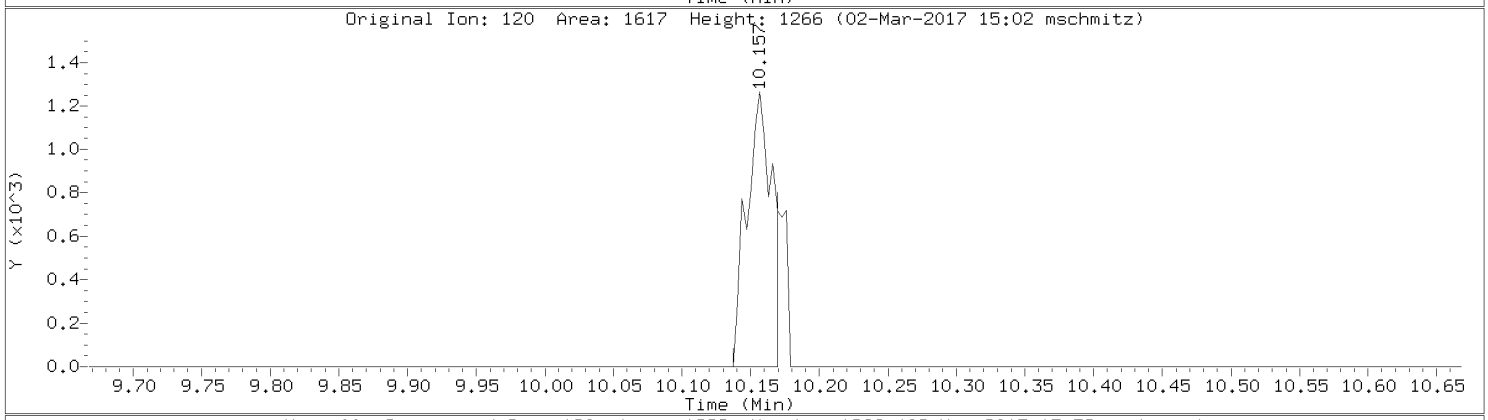


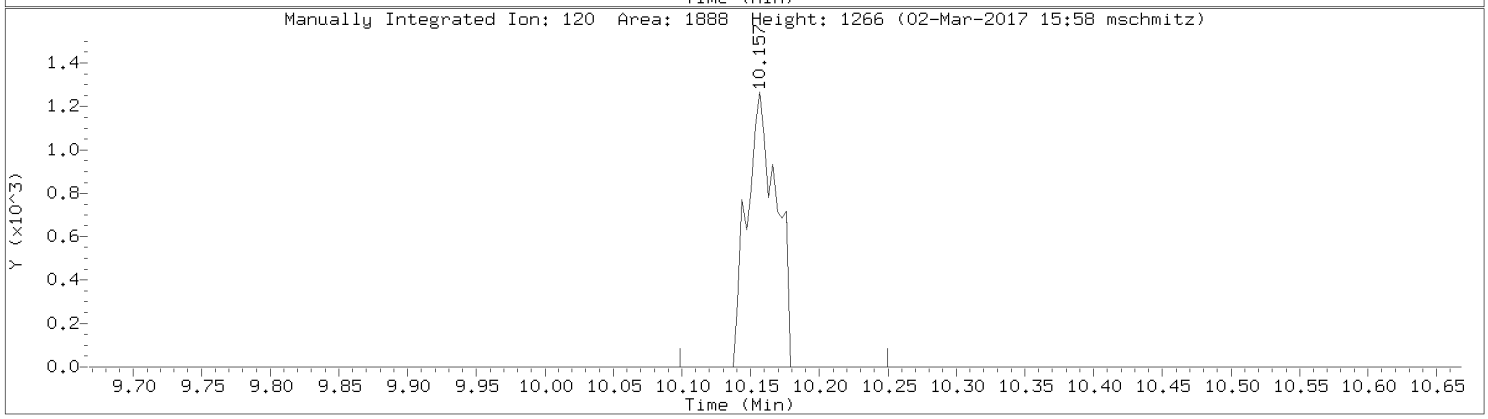
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Isopropylbenzene
CAS Number:



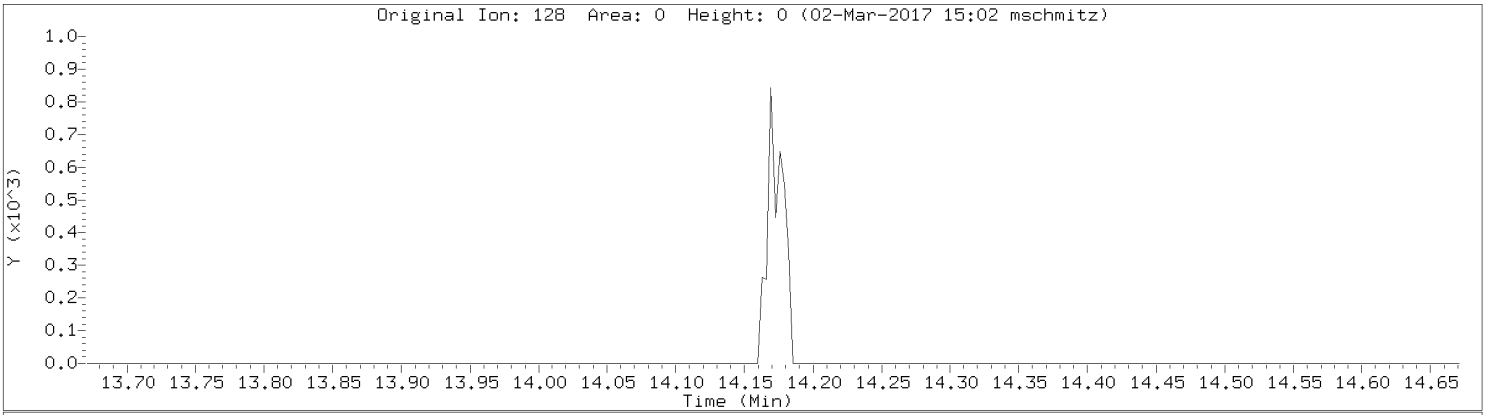


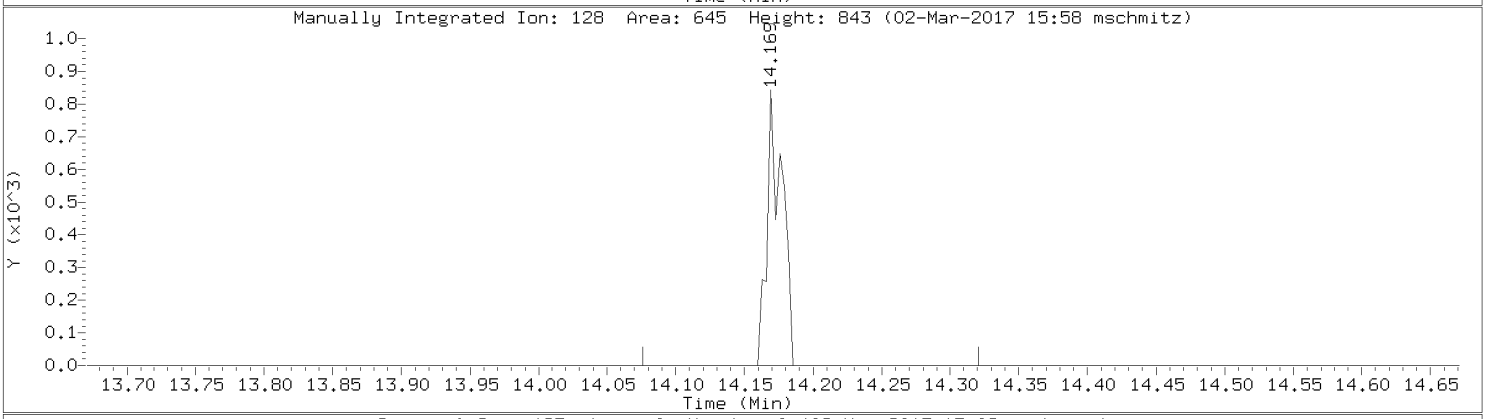


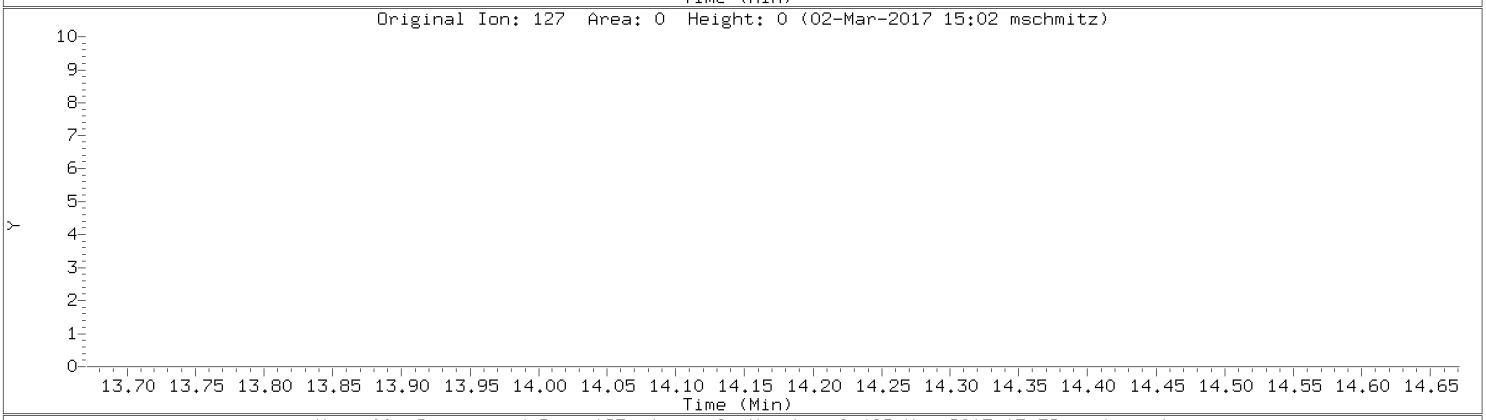


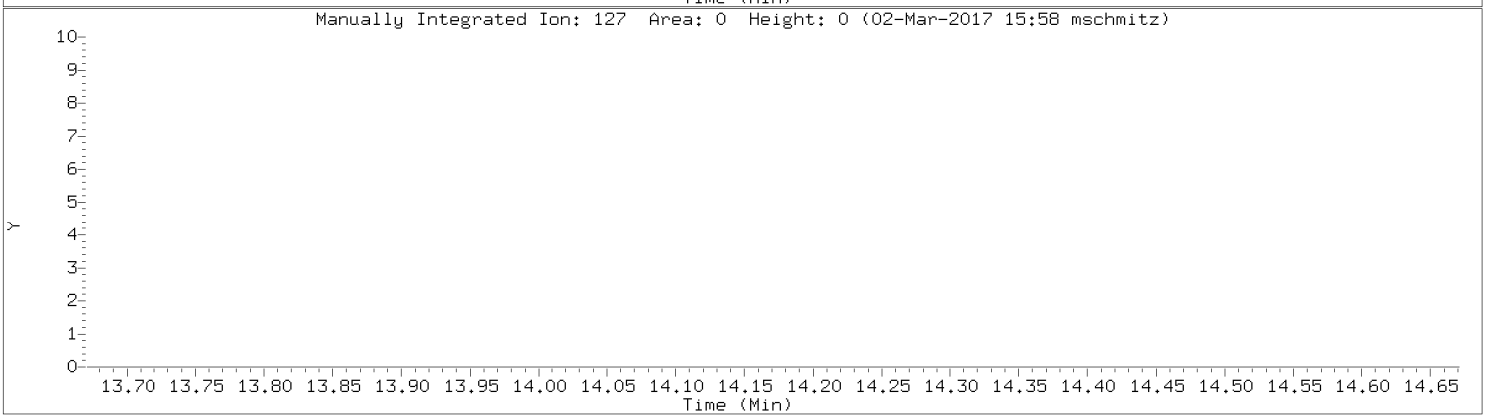
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Naphthalene
CAS Number: 91-20-3



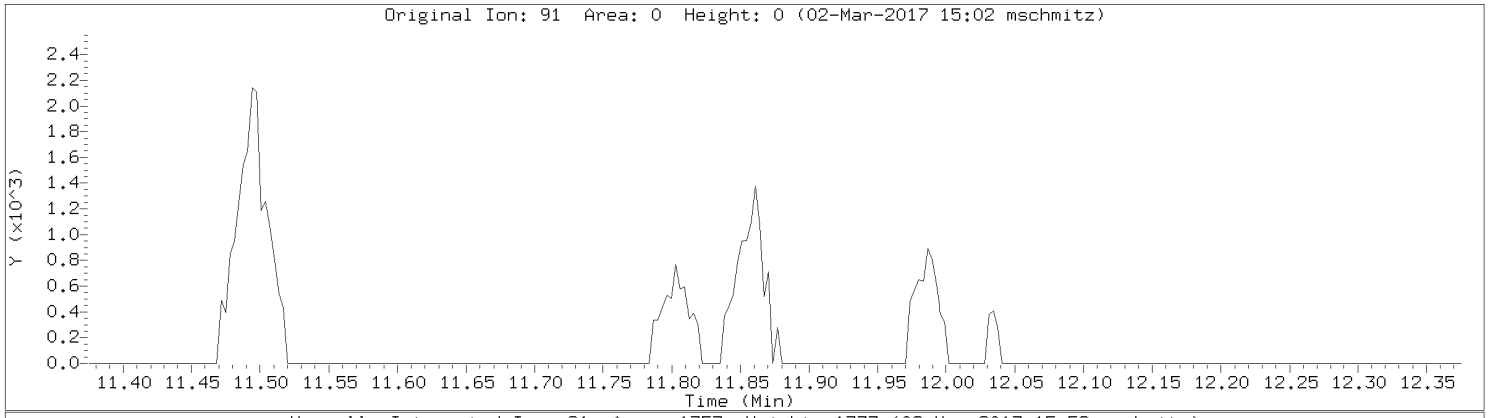


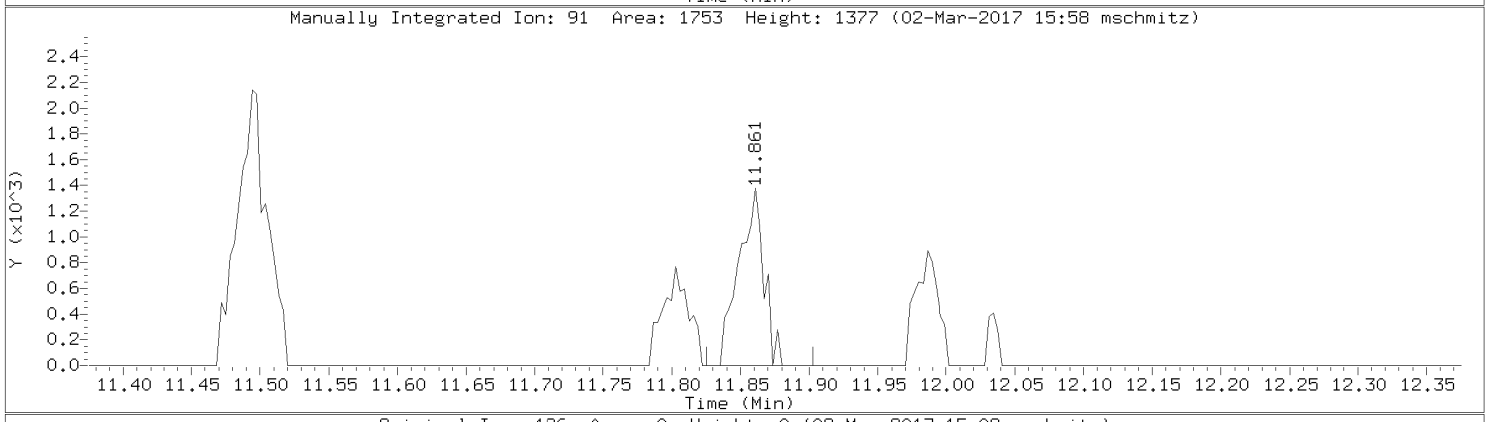


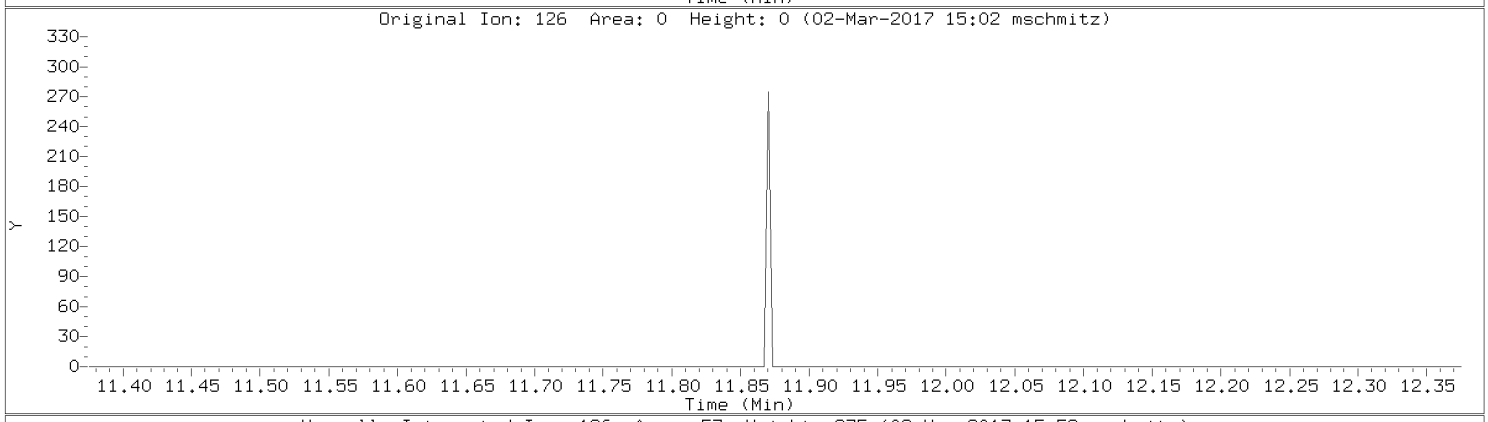


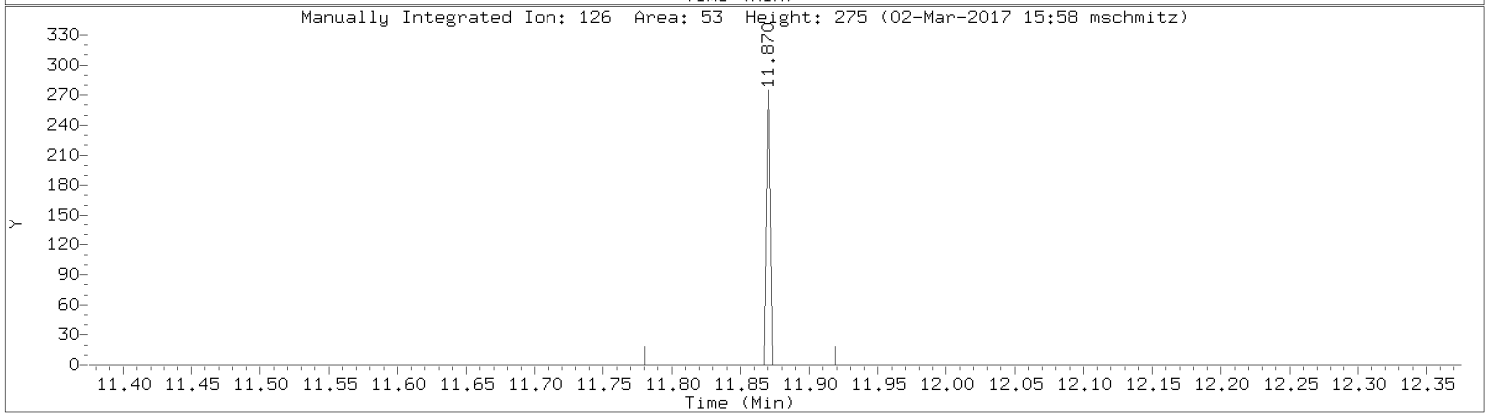
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Benzyl Chloride
CAS Number: 100-44-7



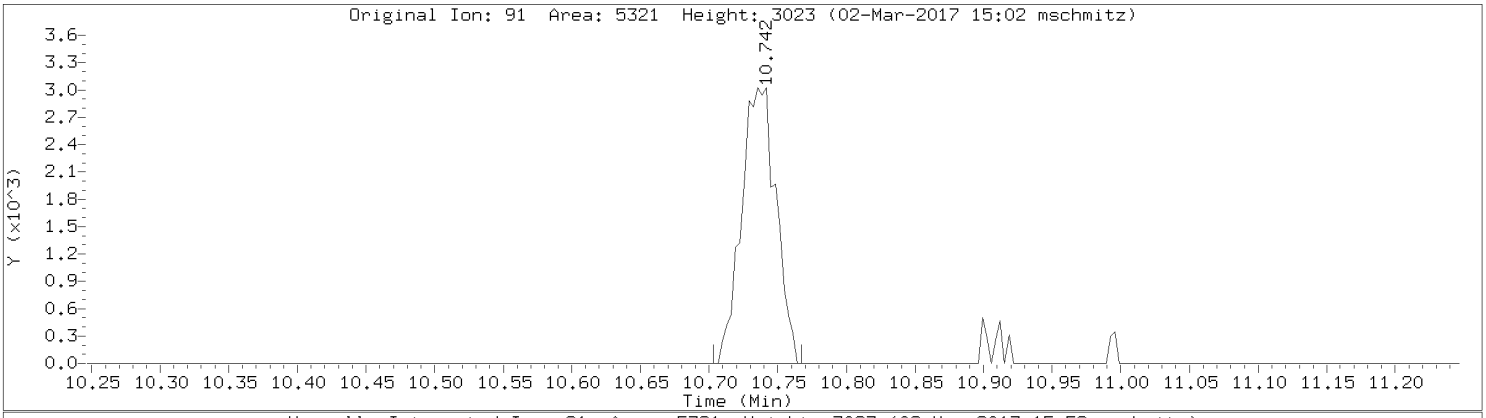


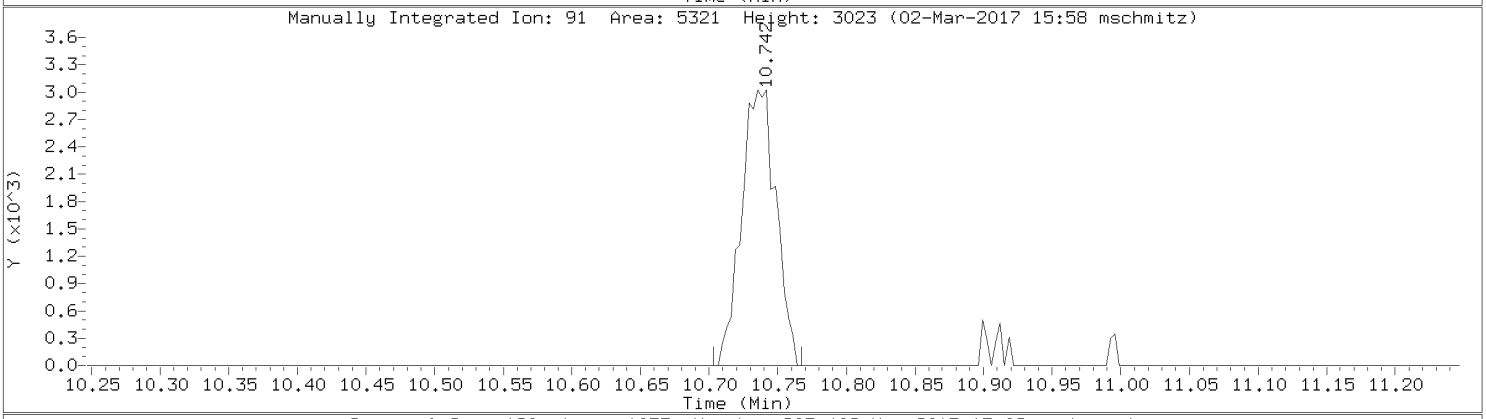


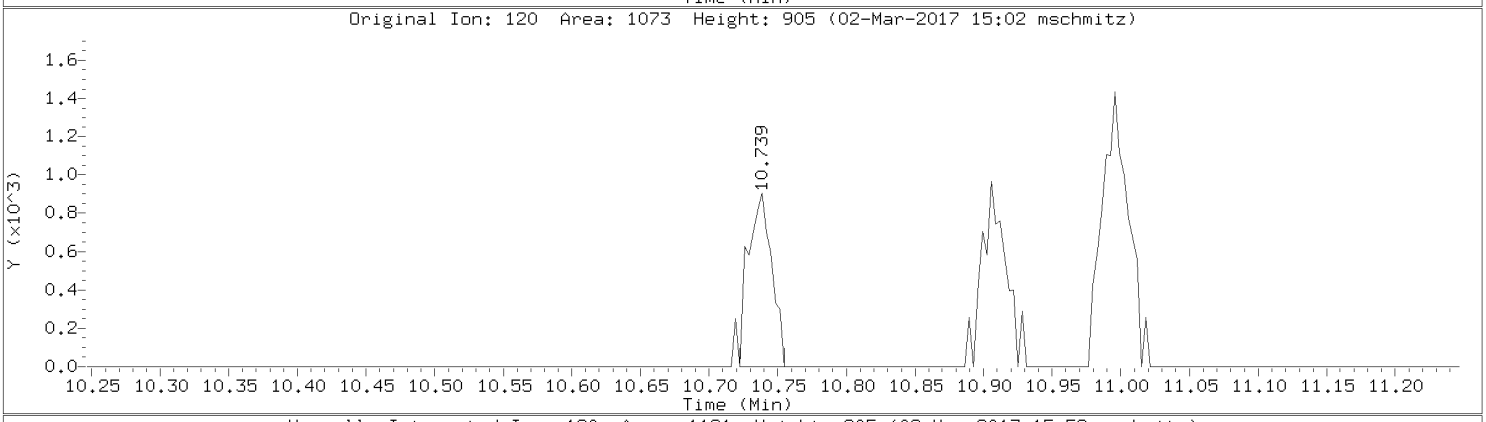


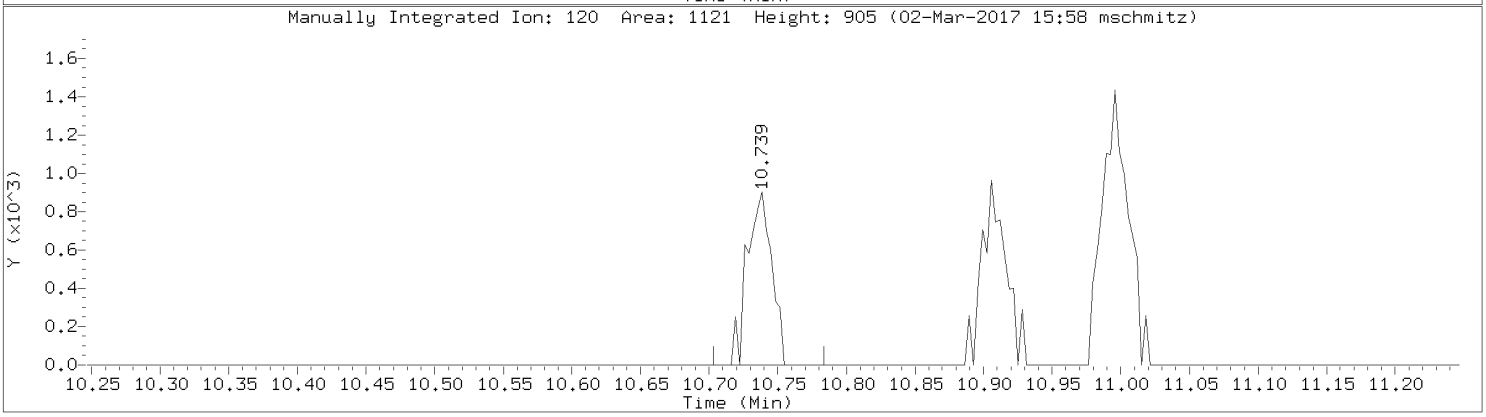
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: N-Propylbenzene
CAS Number: 103-65-1



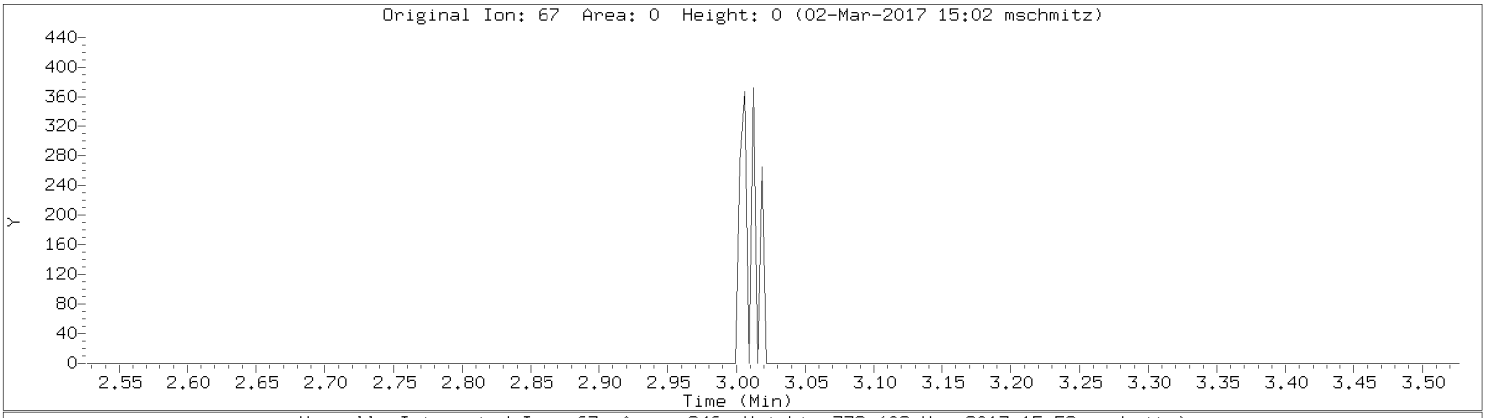


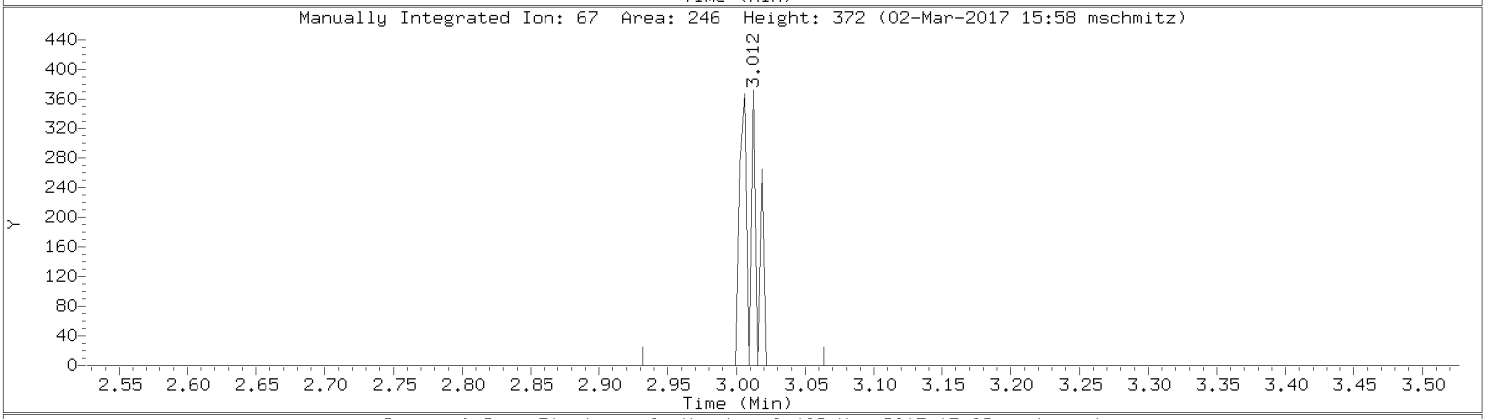


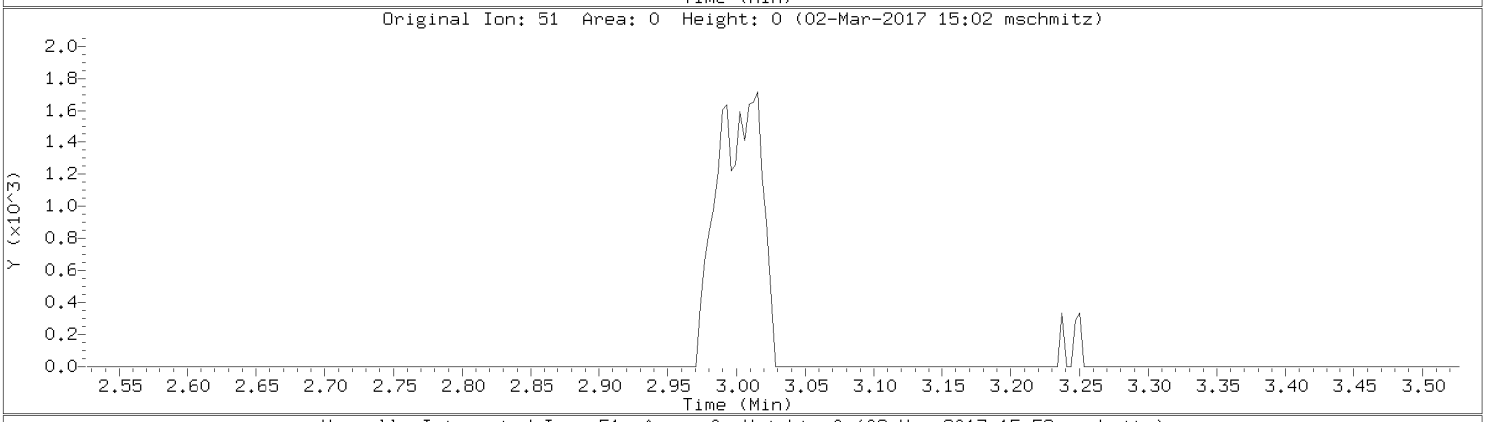


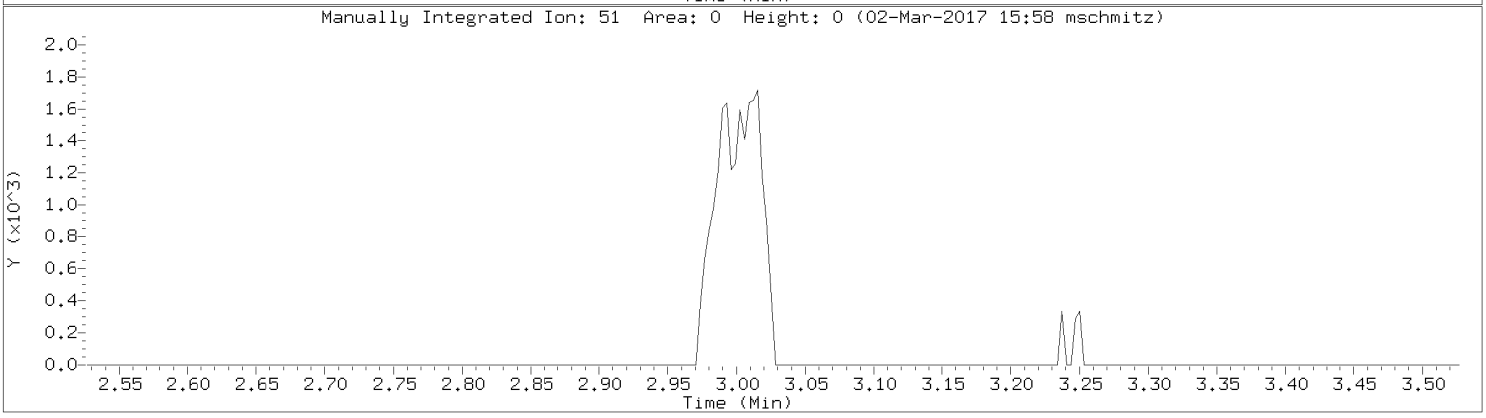
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

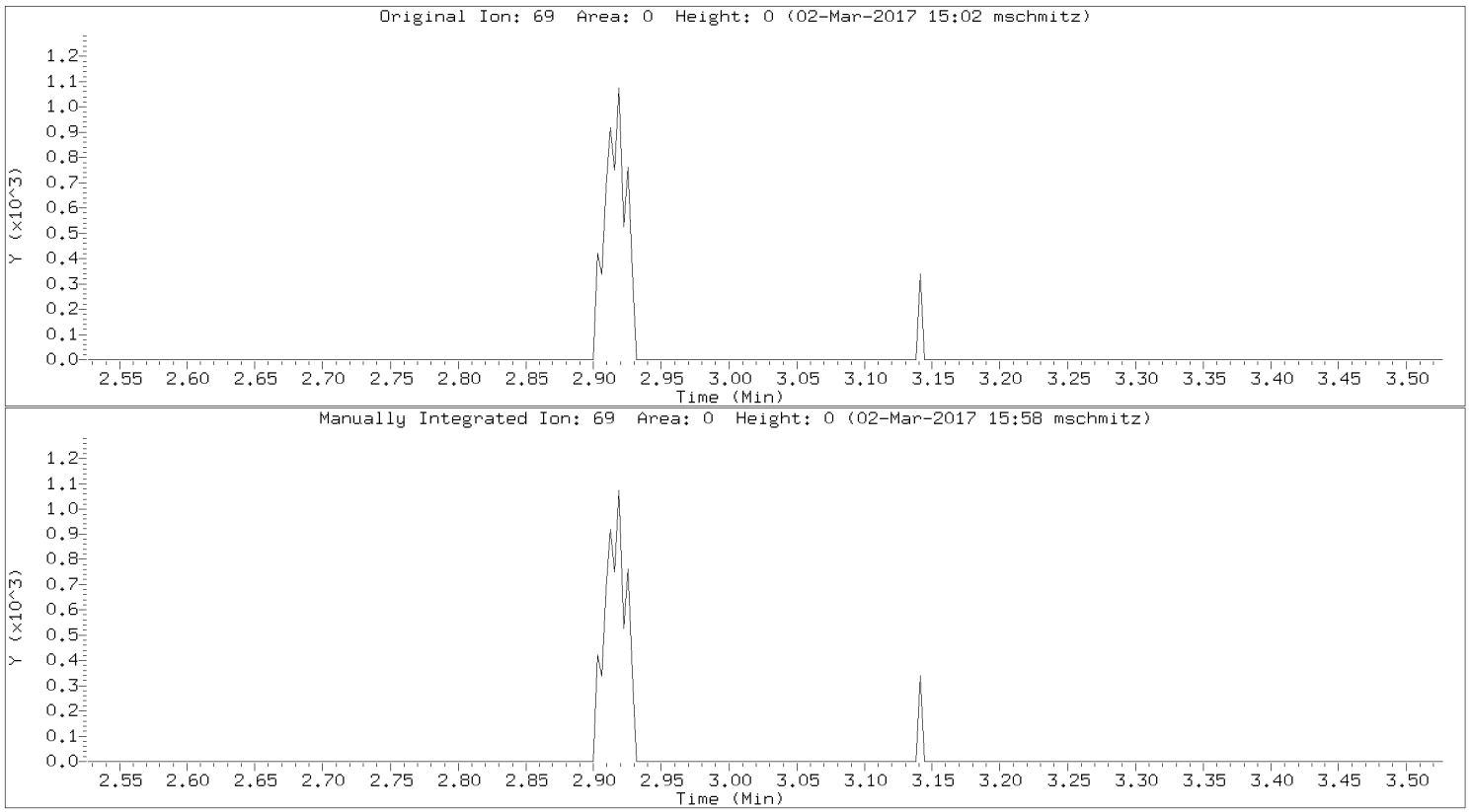






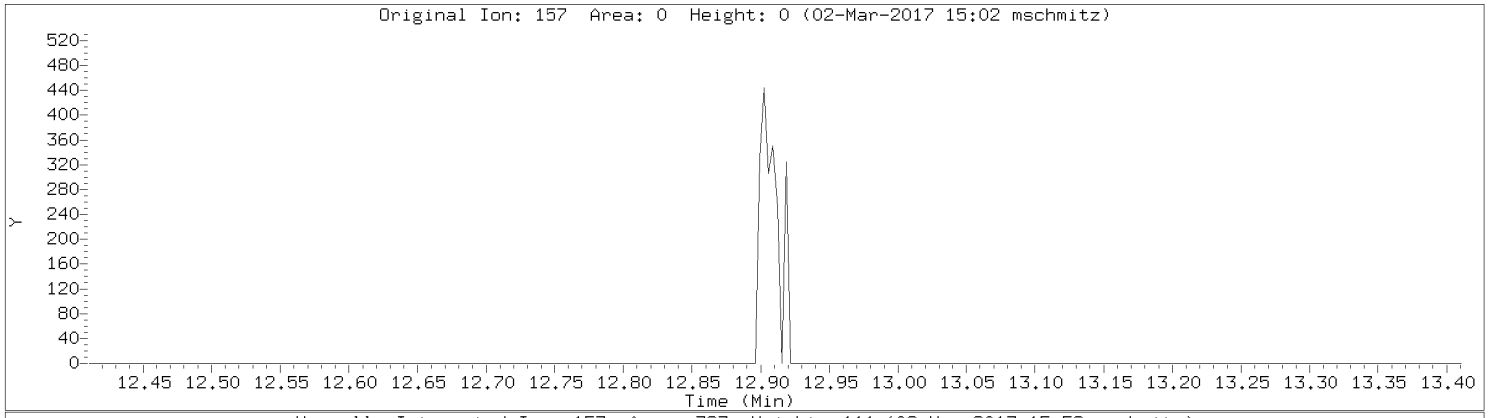


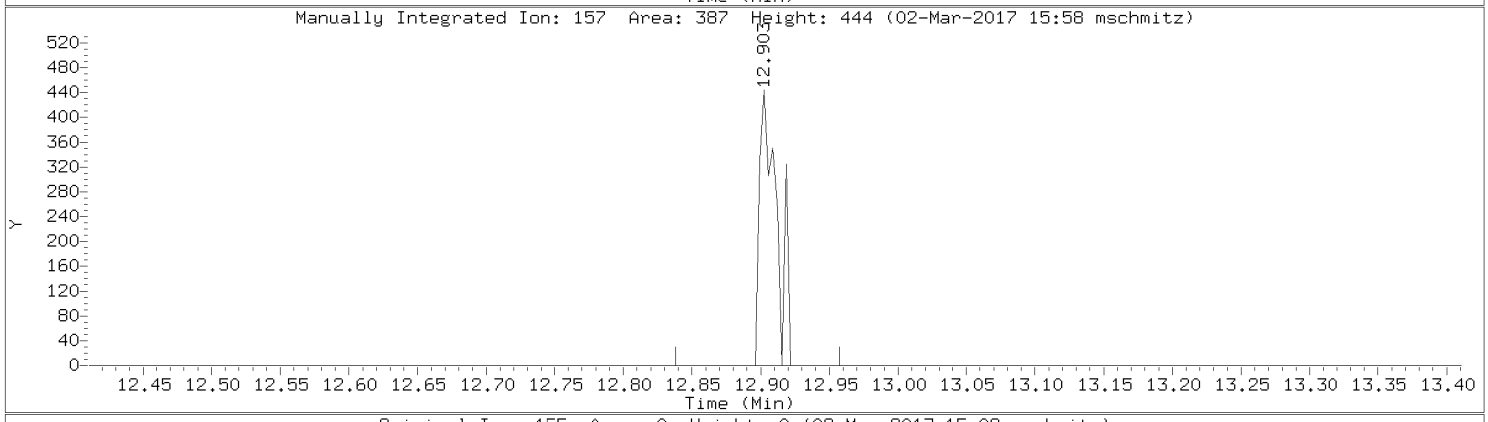
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

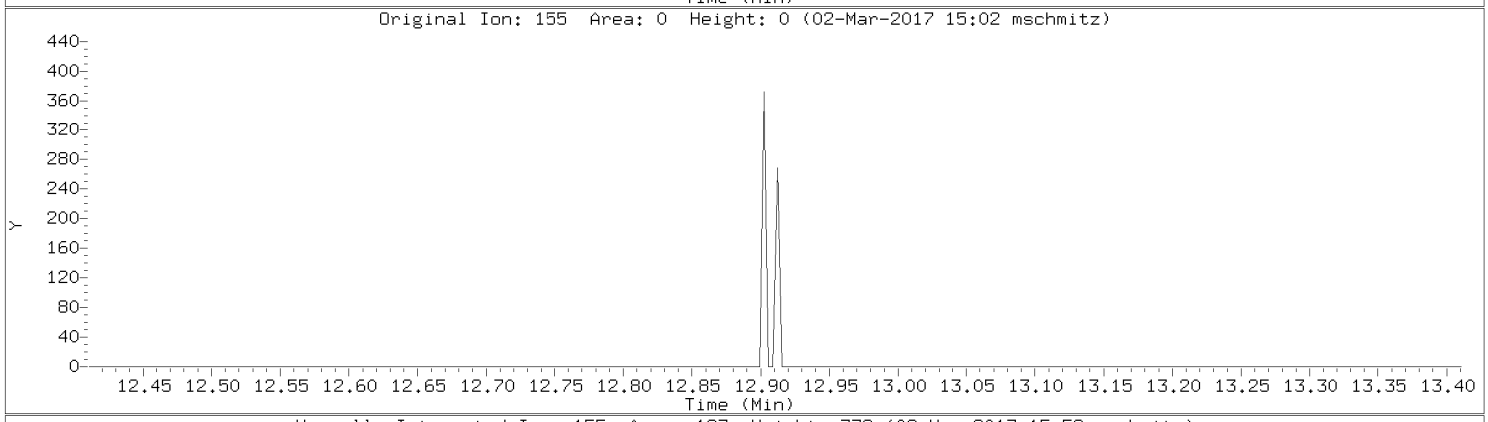


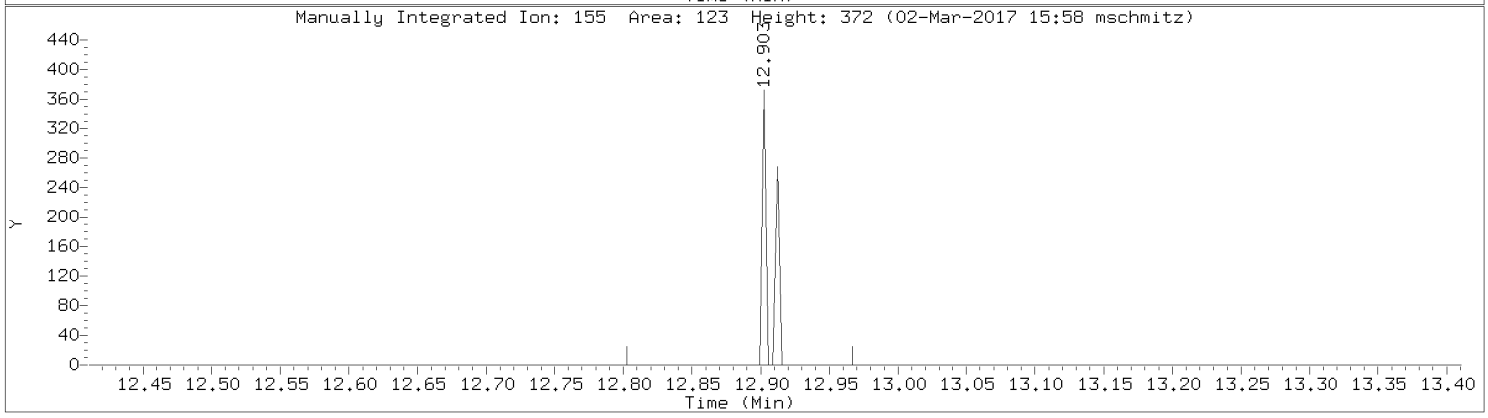
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

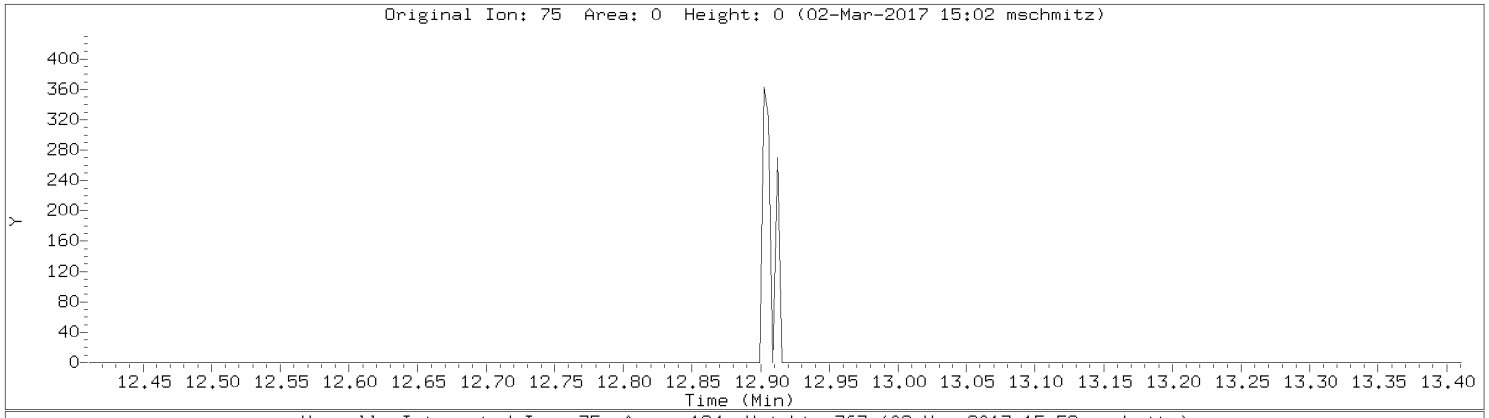


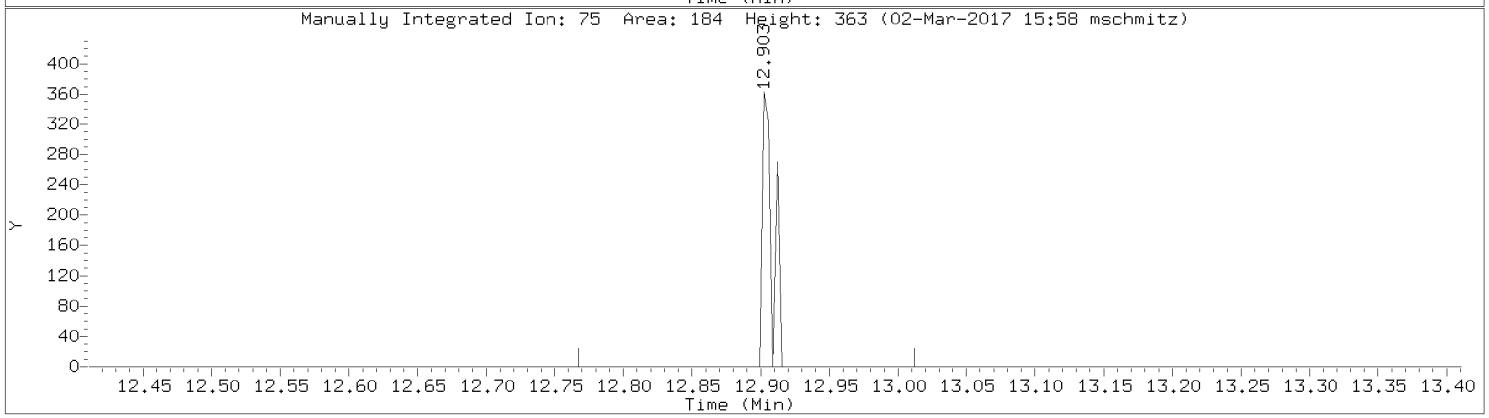






Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1





Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Lab Smp Id: cal2
Inj Date : 02-MAR-2017 11:46
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 15:59 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 11:19 Cal File: 06109.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.947	(0.527)	3252	0.20000	0.460
2	1,1-Difluoroethane	65	3.018	3.018	(0.539)	1639	0.20000	0.218(Q)
3	Chlorodifluoromethane	67	3.041	3.041	(0.543)	740	0.20000	0.164(QM)
4	Propylene	41	3.037	3.037	(0.543)	5938	0.20000	(a)
5	Dichlorodifluoromethane	85	3.066	3.066	(0.548)	9737	0.20000	0.190
6	Chloromethane	50	3.156	3.156	(0.564)	3263	0.20000	0.221
7	Dichlorotetrafluoroethane	85	3.163	3.163	(0.565)	7931	0.20000	0.223
8	Vinyl chloride	62	3.234	3.234	(0.578)	2593	0.20000	0.203
9	1,3-Butadiene	54	3.275	3.275	(0.585)	1940	0.20000	0.209(Q)
10	Bromomethane	94	3.407	3.407	(0.609)	2522	0.20000	0.214
11	Chloroethane	64	3.465	3.465	(0.619)	1360	0.20000	0.232(QM)
12	Ethanol	45	3.546	3.546	(0.633)	5189	1.00000	1.10
13	Vinyl Bromide	106	3.568	3.568	(0.638)	2764	0.20000	0.226
14	Isopentane	43	3.587	3.587	(0.641)	3504	0.20000	0.137(H)
15	Freon 123	83	3.587	3.587	(0.641)	6319	0.20000	0.388
16	Trichlorofluoromethane	101	3.658	3.658	(0.654)	8308	0.20000	0.236
17	Acrolein	56	3.671	3.671	(0.656)	1831	0.50000	0.579
18	Acetone	43	3.716	3.716	(0.664)	24228	1.00000	1.19(M)
19	Isopropyl Alcohol	45	3.767	3.767	(0.673)	23114	1.00000	1.11
20	1,1-Dichloroethene	61	3.893	3.893	(0.696)	4642	0.20000	0.227
21	Acrylonitrile	53	3.906	3.906	(0.698)	5108	0.50000	0.543
22	Freon 113	101	3.935	3.935	(0.703)	6079	0.20000	0.229
23	Methyl Acetate	43	3.951	3.951	(0.706)	7283	0.20000	0.235

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.963	3.963	(0.708)	15055	0.50000	0.564(Q)
	25 Methylene chloride	49	3.980	3.980	(0.711)	16513	1.00000	1.15
	26 Allyl Chloride	76	3.996	3.996	(0.714)	2156	0.50000	0.635(QM)
	27 Carbon Disulfide	76	4.108	4.108	(0.734)	4917	0.20000	0.182
	28 trans-1,2-dichloroethene	96	4.253	4.253	(0.760)	2141	0.20000	0.186(Q)
	29 Methyl Tert Butyl Ether	73	4.311	4.311	(0.770)	17125	0.50000	0.523
	30 Vinyl Acetate	43	4.372	4.372	(0.781)	4581	0.20000	0.316(M)
	31 1,1-Dichloroethane	63	4.381	4.381	(0.783)	4450	0.20000	0.199
$	32 Hexane-d14(S)	66	4.481	4.481	(0.801)	397064	10.0000	9.72
	33 Methyl Ethyl Ketone	72	4.558	4.558	(0.814)	1030	0.20000	0.241(QM)
	34 n-Hexane	57	4.574	4.574	(0.817)	4411	0.20000	0.215(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.822)	8461	0.20000	0.213(M)
	36 Ethyl Acetate	43	4.722	4.722	(0.844)	5346	0.20000	0.203(Q)
	37 cis-1,2-Dichloroethene	96	4.700	4.700	(0.840)	2514	0.20000	0.196
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.863)	20811	0.50000	0.501
	39 Chloroform	83	4.816	4.816	(0.860)	5081	0.20000	0.191
	40 Tetrahydrofuran	42	5.005	5.005	(0.894)	2979	0.20000	0.210
	41 1,1,1-Trichloroethane	97	5.217	5.217	(0.932)	6500	0.20000	0.208
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	5326	0.20000	0.224
	43 Benzene	78	5.452	5.452	(0.974)	8372	0.20000	0.202
	44 Carbon tetrachloride	117	5.475	5.475	(0.978)	6316	0.20000	0.202
	45 Cyclohexane	56	5.478	5.478	(0.979)	4269	0.20000	0.206
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(1.001)	20967	0.20000	0.222
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1283793	10.0000	
	48 2,2,4-Trimethylpentane	57	5.758	5.758	(1.029)	34058	0.50000	0.531
	49 Heptane	43	5.877	5.877	(1.050)	4704	0.20000	0.203
	50 1,2-Dichloropropane	63	5.951	5.951	(1.063)	3190	0.20000	0.213
	51 Trichloroethene	130	5.973	5.973	(1.067)	4574	0.20000	0.212
	52 Methyl methacrylate	69	6.050	6.050	(1.081)	2943	0.20000	0.210
	53 1,4-Dioxane	88	6.089	6.089	(1.088)	1944	0.20000	0.201
	54 Bromodichloromethane	83	6.070	6.070	(1.084)	6368	0.20000	0.208
	55 Methylcyclohexane	98	6.420	6.420	(1.147)	2326	0.20000	0.201(Q)
	56 Methyl Isobutyl Ketone	43	6.539	6.539	(1.168)	16711	0.50000	0.529
	57 cis-1,3-Dichloropropene	75	6.578	6.578	(1.175)	4624	0.20000	0.273
	58 trans-1,3-Dichloropropene	75	6.979	6.979	(1.247)	3360	0.20000	0.230
$	59 Toluene-d8 (S)	98	7.069	7.069	(1.263)	1213296	10.0000	10.6
	60 1,1,2-Trichloroethane	97	7.137	7.137	(1.275)	3801	0.20000	0.221
	61 Toluene	91	7.143	7.143	(1.276)	11436	0.20000	0.221
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.854)	13320	0.50000	0.469
	63 n-Octane	43	7.578	7.578	(0.877)	6028	0.20000	0.196
	64 Dibromochloromethane	129	7.671	7.671	(0.888)	5941	0.20000	0.211
	65 1,2-Dibromoethane	107	7.902	7.902	(0.915)	5784	0.20000	0.199
	66 Tetrachloroethene	166	7.976	7.976	(0.923)	7038	0.20000	0.225
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	899058	10.0000	
	68 Chlorobenzene	112	8.684	8.684	(1.005)	8865	0.20000	0.199
	69 Ethyl Benzene	91	8.928	8.928	(1.033)	12470	0.20000	0.189
	70 m&p-Xylene	91	9.076	9.076	(1.051)	20159	0.40000	0.388(M)
	71 n-Nonane	43	9.465	9.465	(1.096)	4537	0.20000	0.169
	72 Bromoform	173	9.471	9.471	(1.096)	3665	0.20000	0.270
	73 Styrene	104	9.500	9.500	(1.100)	6483	0.20000	0.219(M)
	74 o-Xylene	91	9.568	9.568	(1.108)	10001	0.20000	0.189
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	5378	0.20000	0.185
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	15207	0.20000	0.203(M)
	77 N-Propylbenzene	91	10.735	10.735	(1.243)	12256	0.20000	0.170

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	10605	0.20000	0.232(M)
79	1,3,5-Trimethylbenzene	105	10.995	10.995	(1.273)	9860	0.20000	0.174
80	n-Decane	57	11.378	11.378	(2.033)	3858	0.20000	0.352
81	Tert-Butyl Benzene	119	11.497	11.497	(1.331)	11017	0.20000	0.185
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	9813	0.20000	0.184
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.365)	6190	0.20000	0.153
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	13440	0.20000	0.180
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.372)	427230	10.0000	8.63
86	Benzyl Chloride	91	11.860	11.860	(1.373)	3597	0.20000	0.380(M)
87	1,4-Dichlorobenzene	146	11.880	11.880	(1.375)	6332	0.20000	0.181(Q)
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	11000	0.20000	0.150(M)
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	9180	0.20000	0.174
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	5537	0.20000	0.235
91	N-Butylbenzene	91	12.462	12.462	(1.443)	7061	0.20000	0.106
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.494)	957	0.20000	0.261(Q)
93	1,2,4-Trichlorobenzene	180	14.047	14.047	(1.626)	513	0.20000	0.411(QM)
94	Naphthalene	128	14.175	14.175	(1.641)	1944	0.20000	0.392(M)
95	Hexachlorobutadiene	225	14.416	14.416	(1.669)	2904	0.20000	0.186

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06110.D
Lab Smp Id: cal2
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

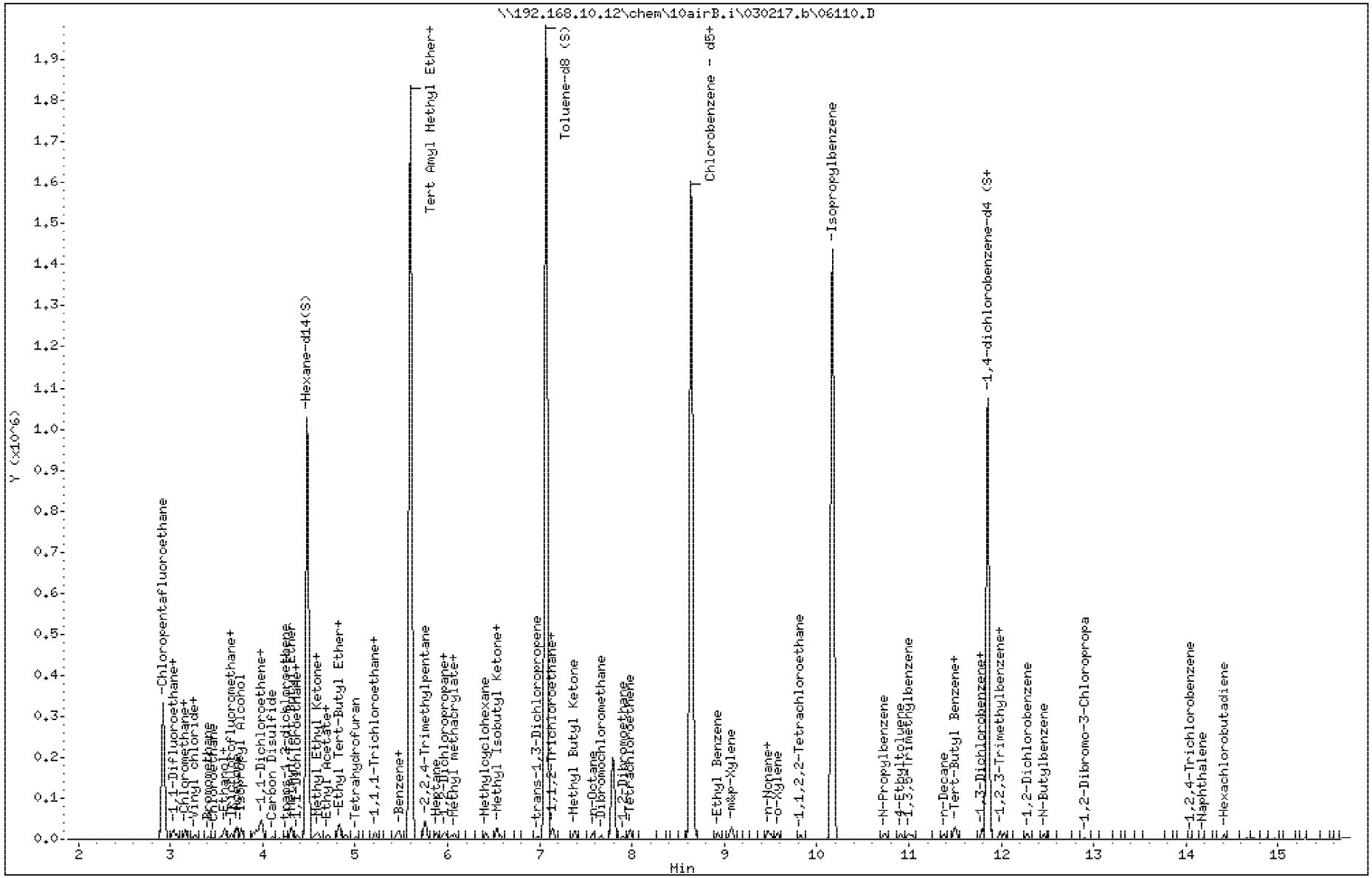
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1283793	-9.22
67 Chlorobenzene - d	951026	570616	1331436	899058	-5.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

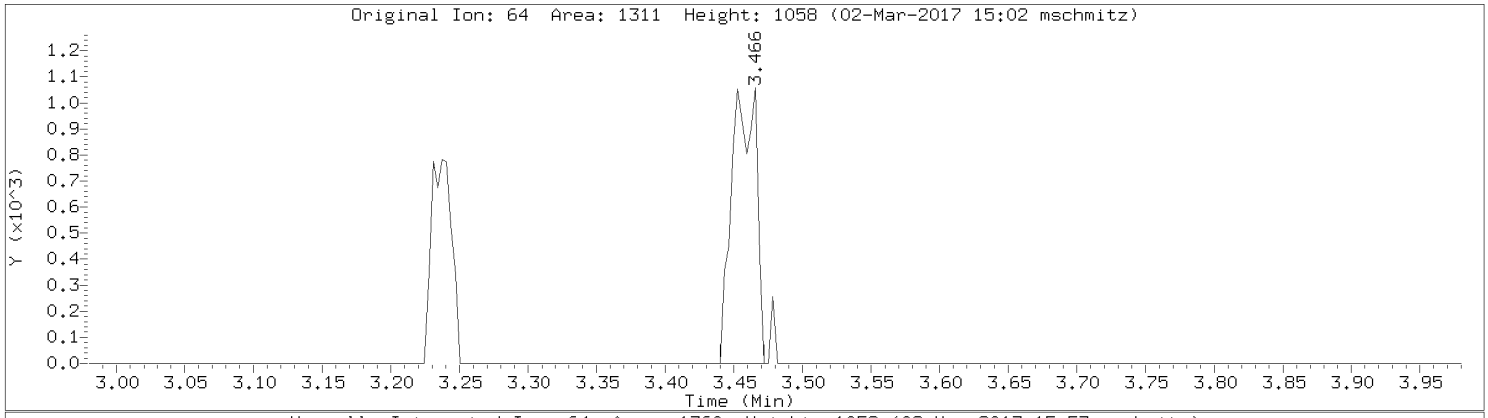
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Date : 02-MAR-2017 11:46
Client ID:
Sample Info:

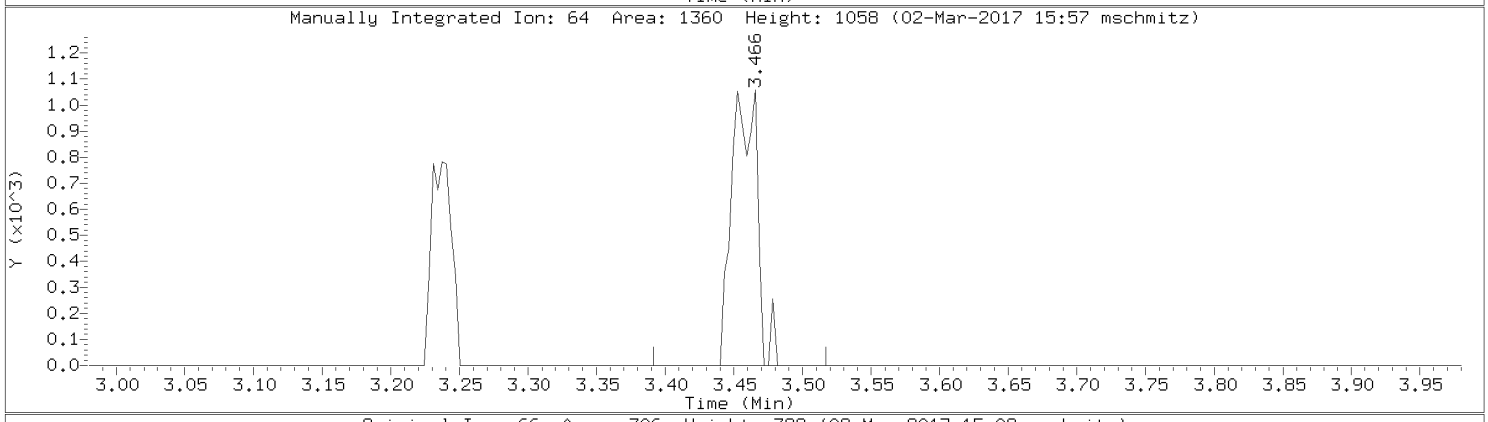
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

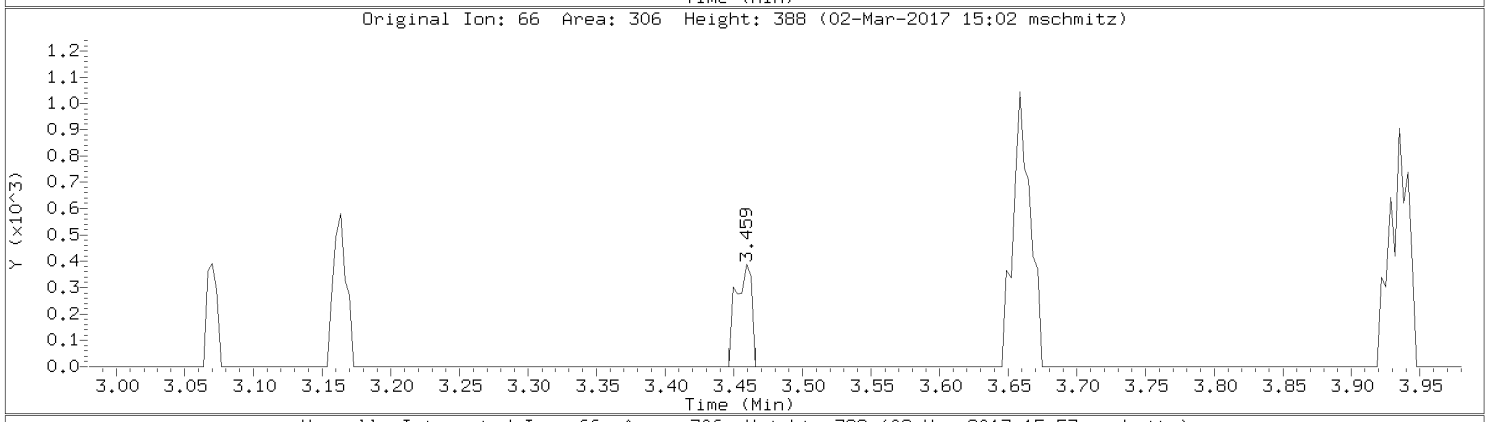


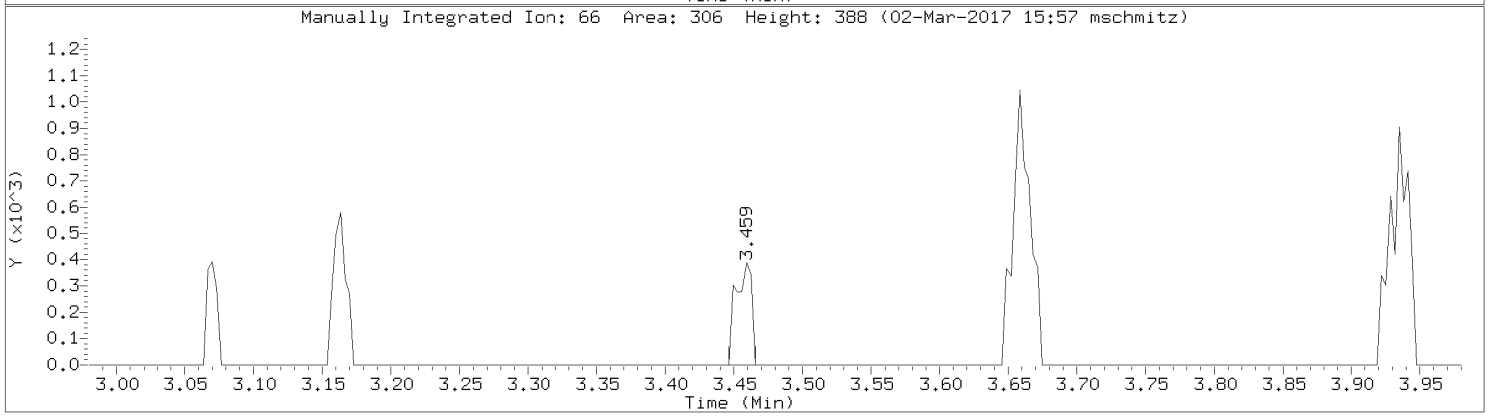
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Chloroethane
CAS Number: 75-00-3



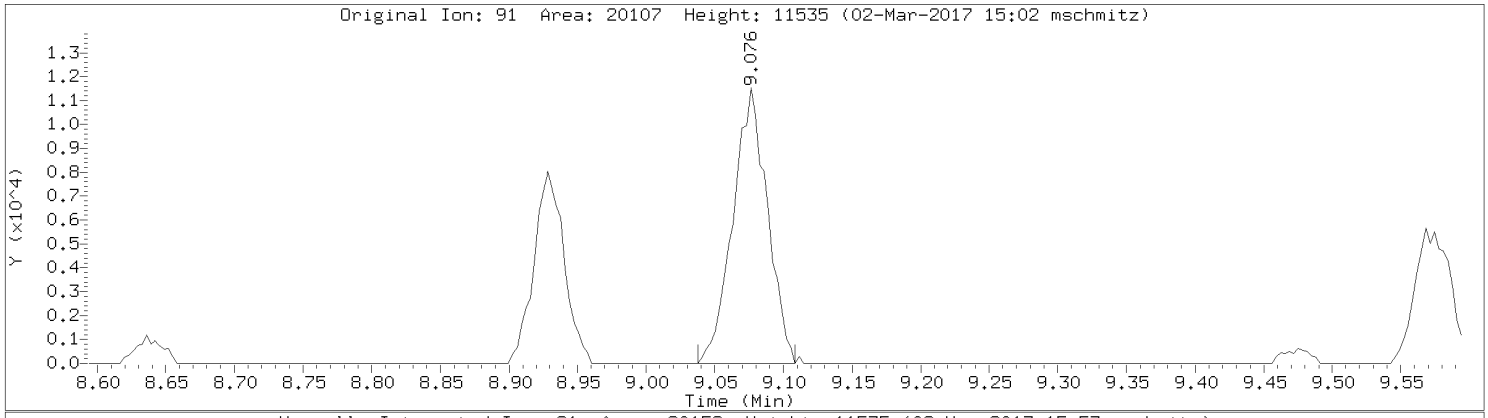


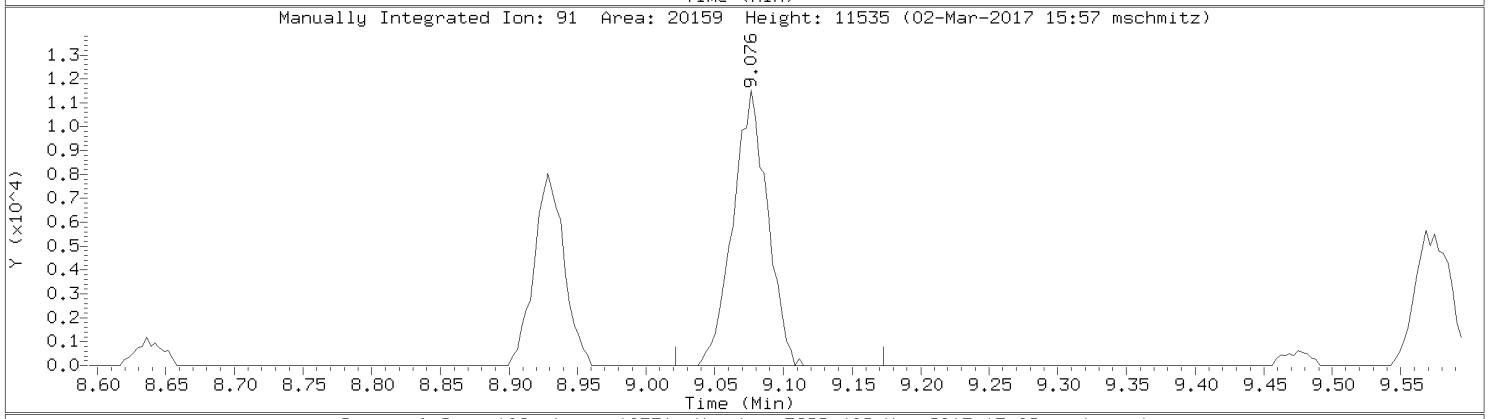


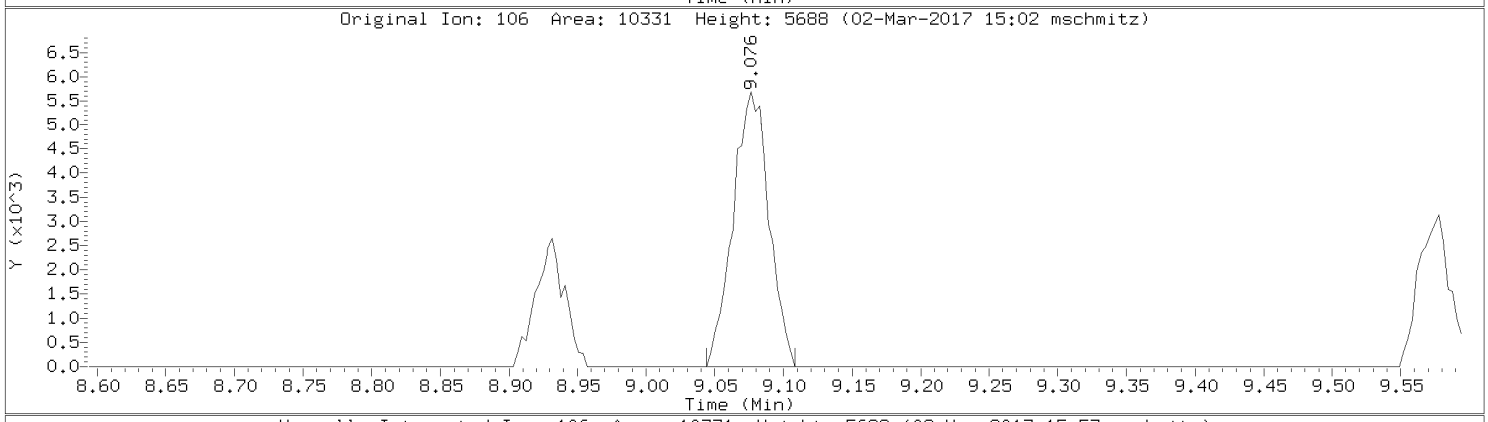


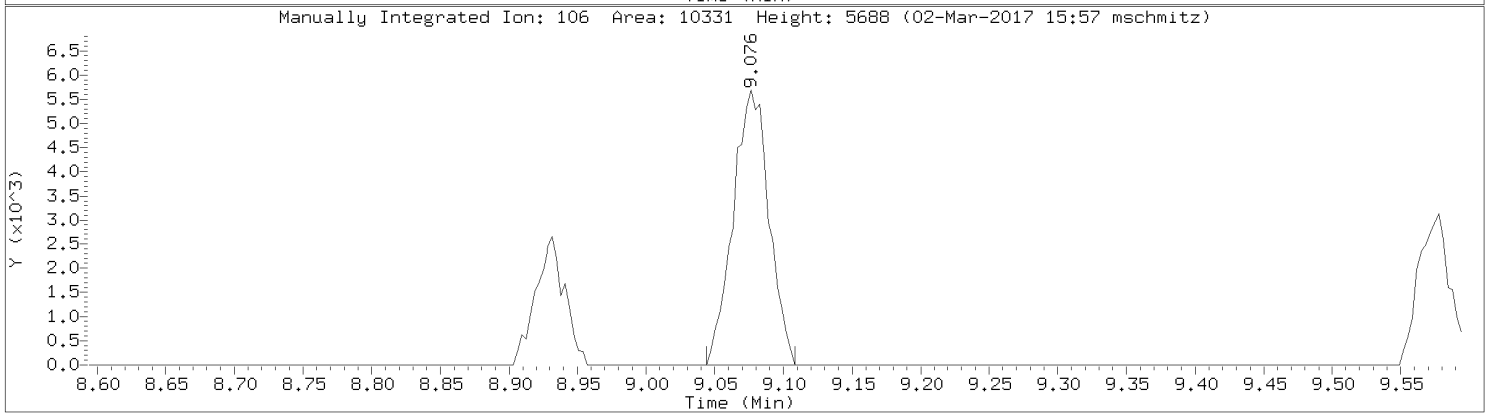
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: m&p-Xylene
CAS Number: 7816-60-0



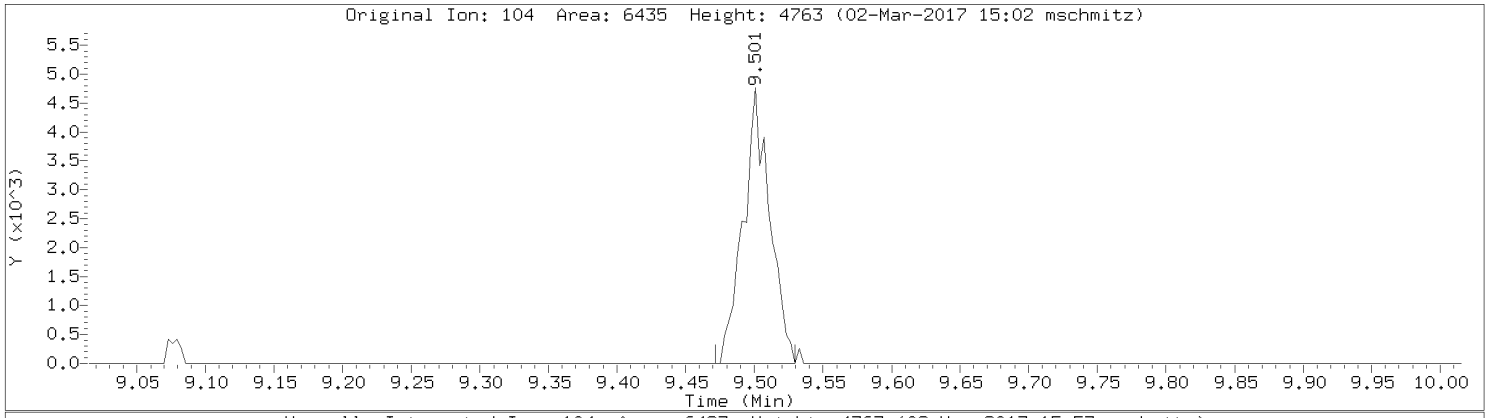


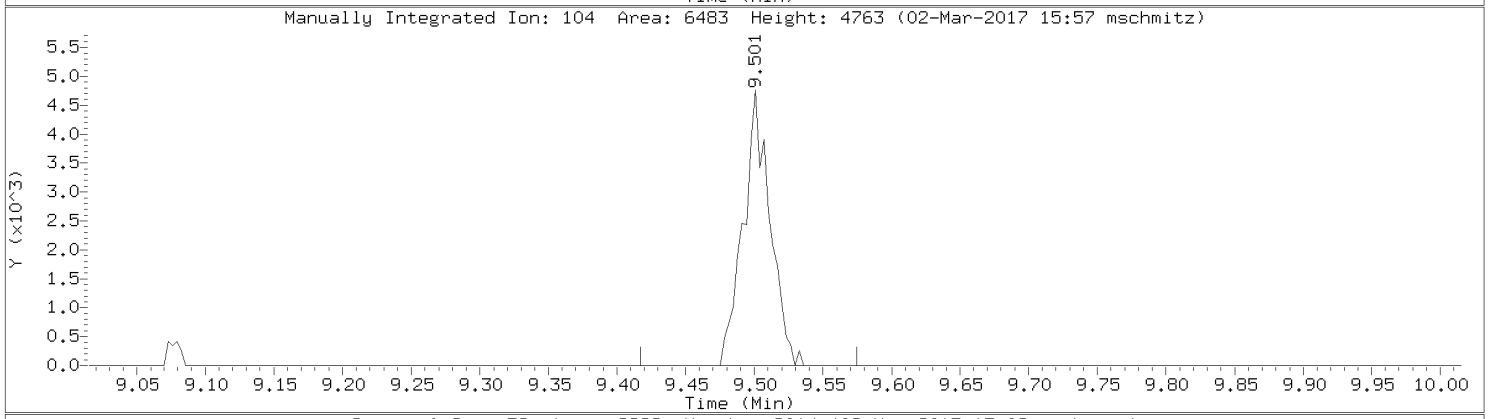


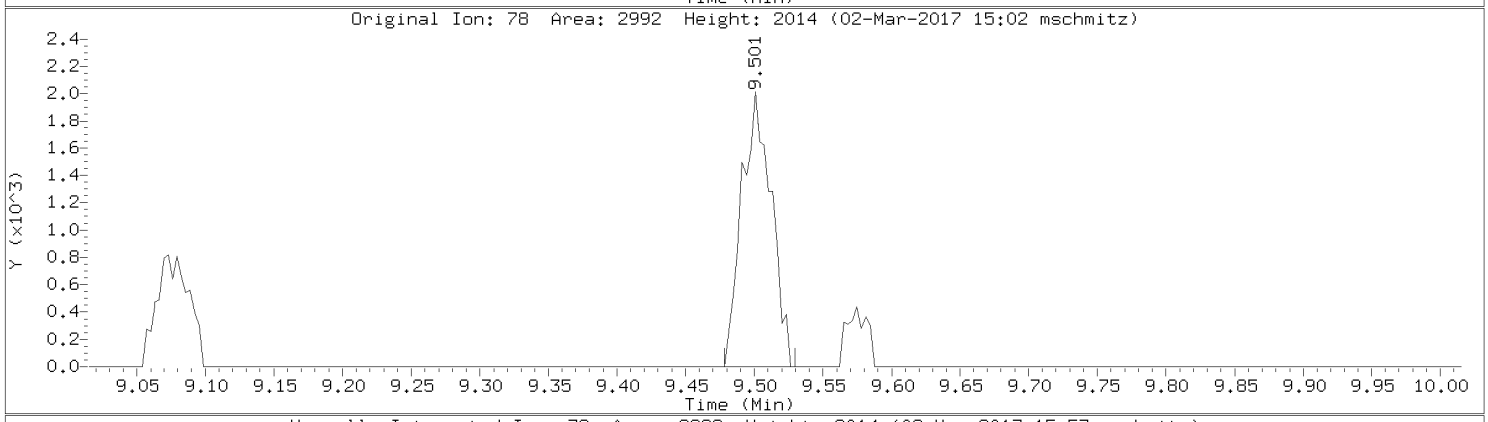


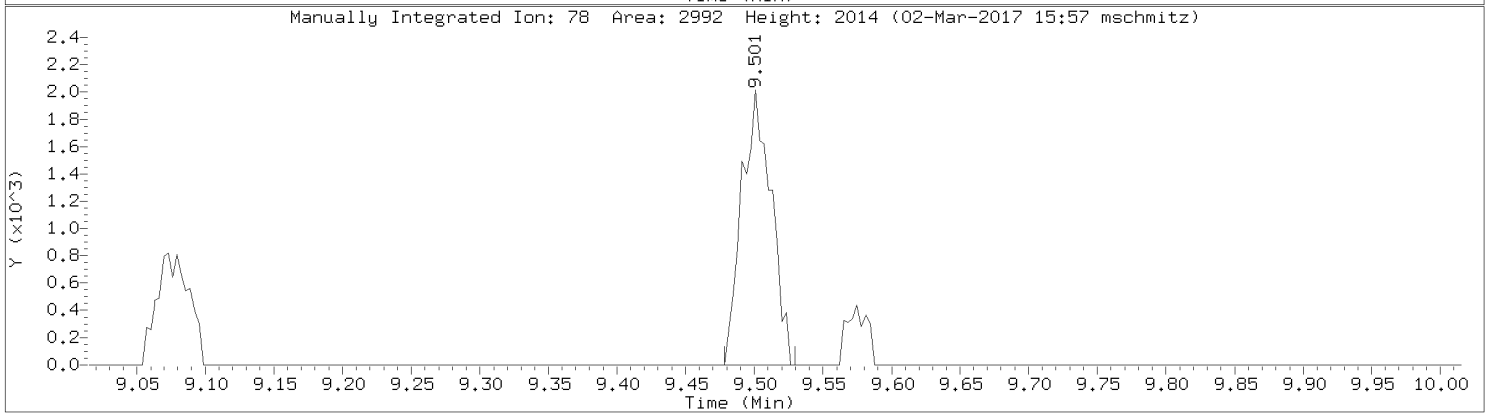
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Styrene
CAS Number: 100-42-5

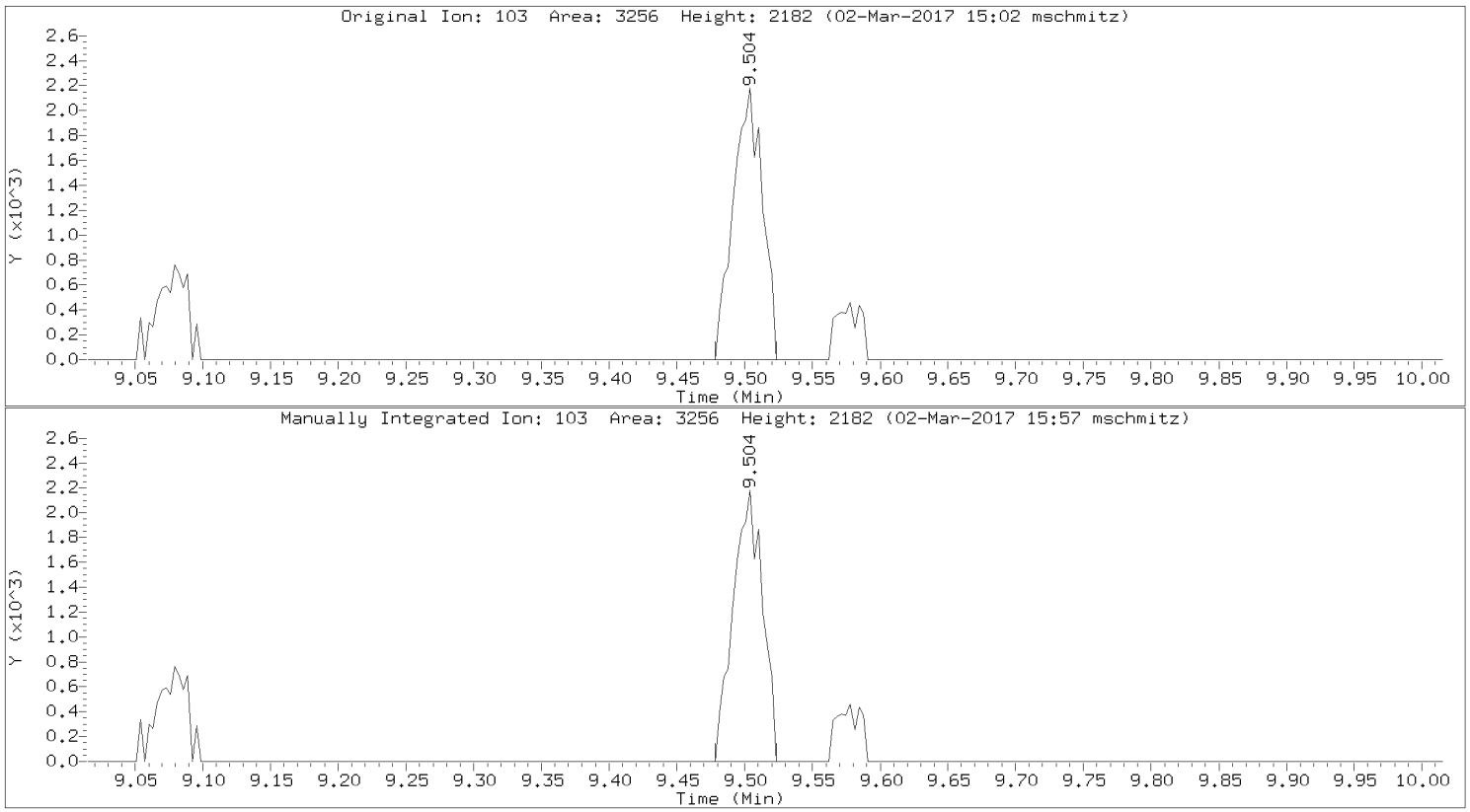






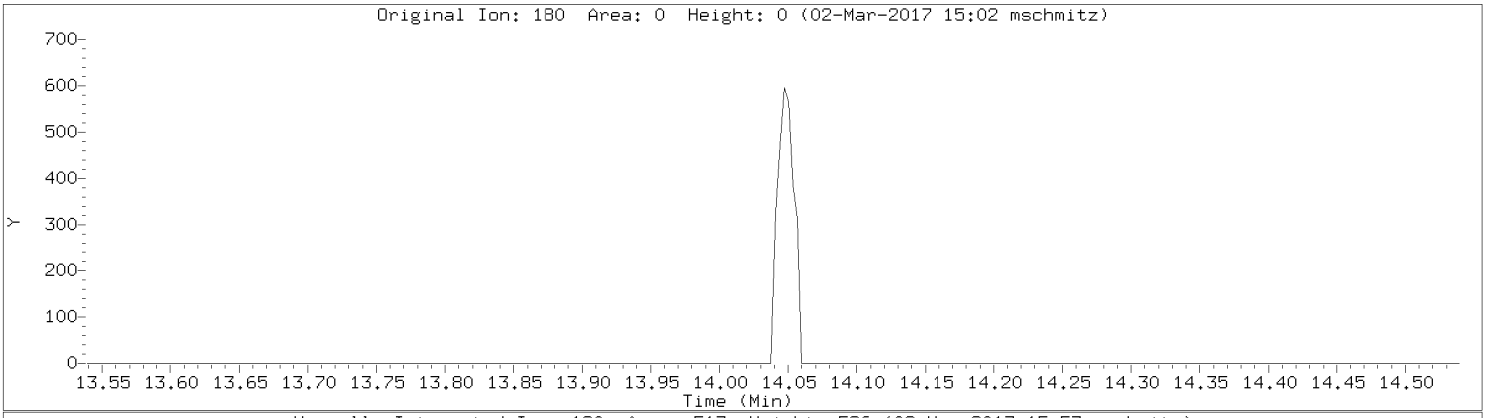


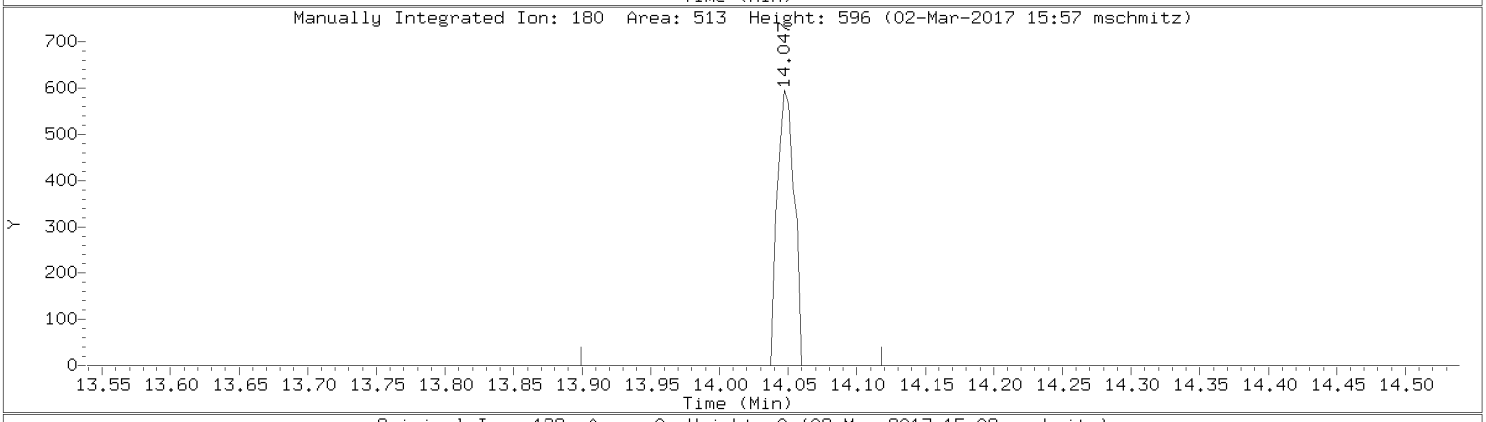
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

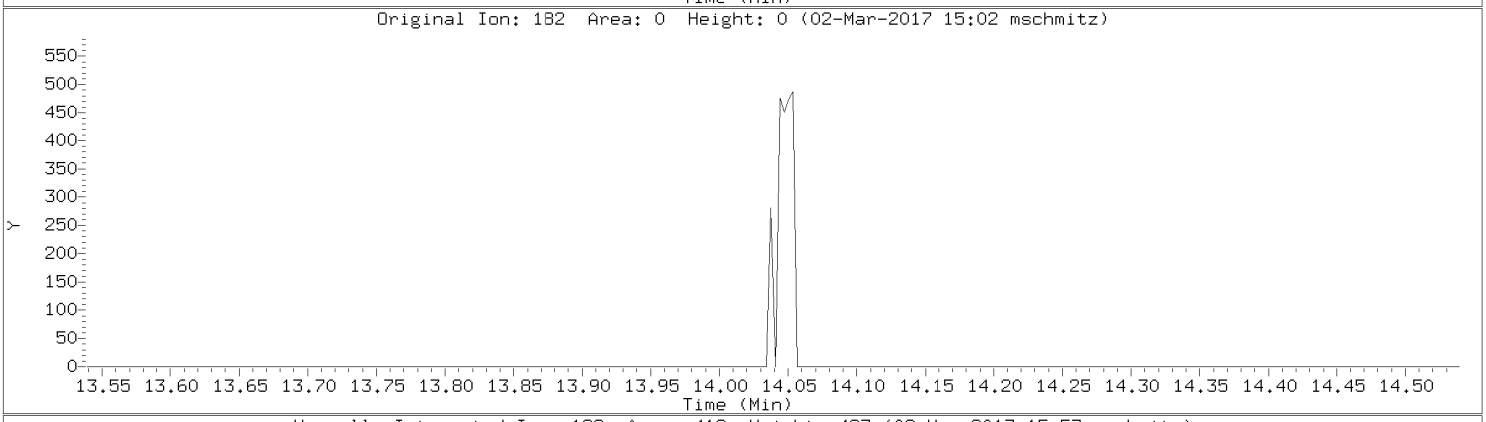


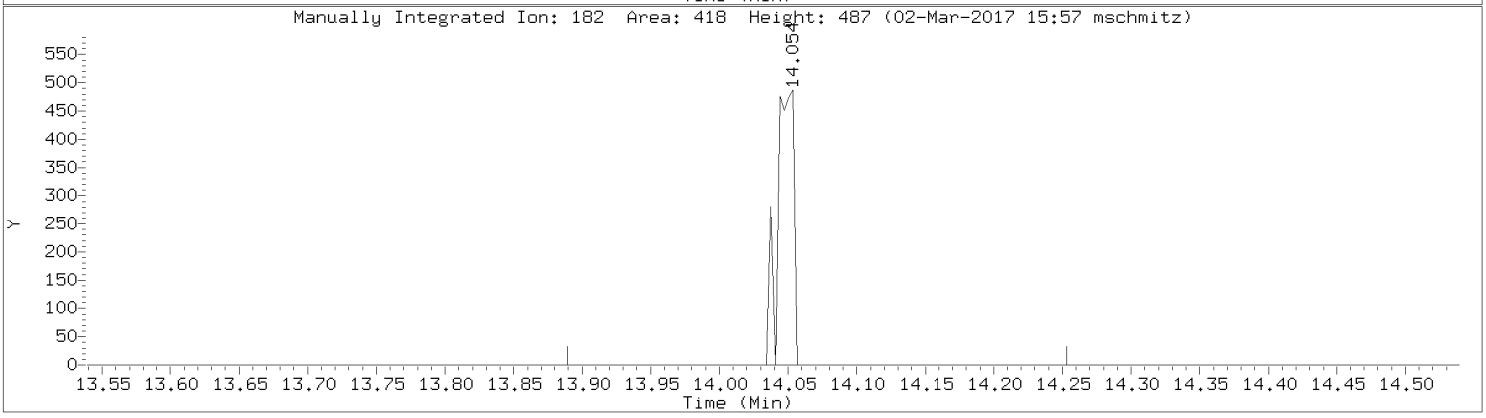
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

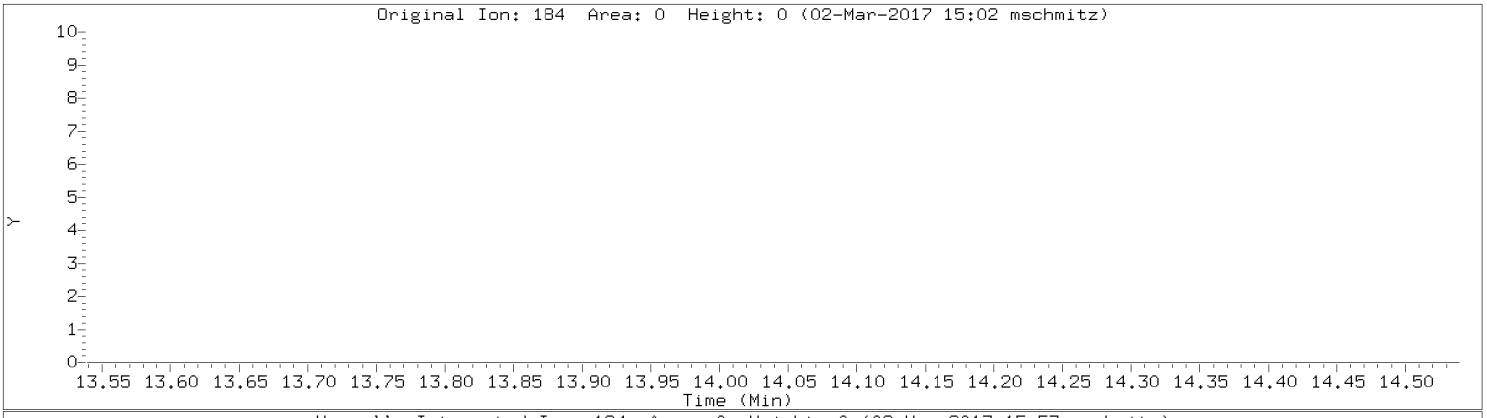


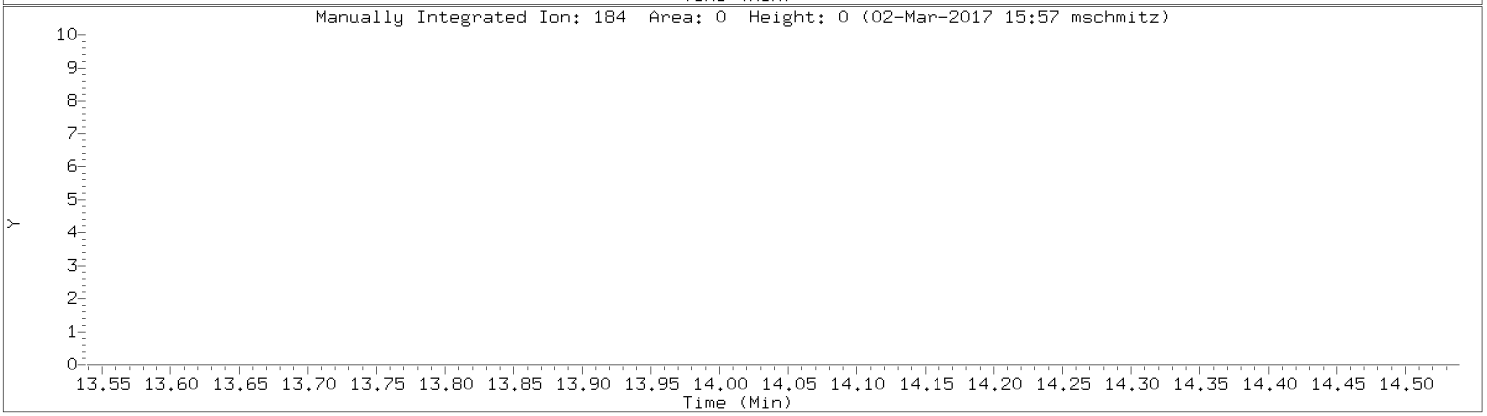






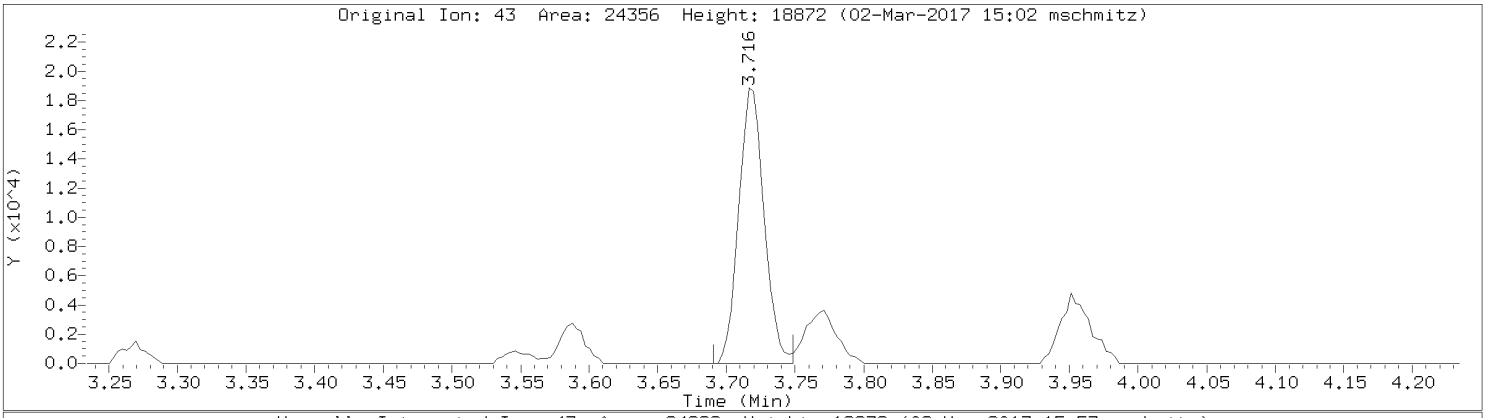
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

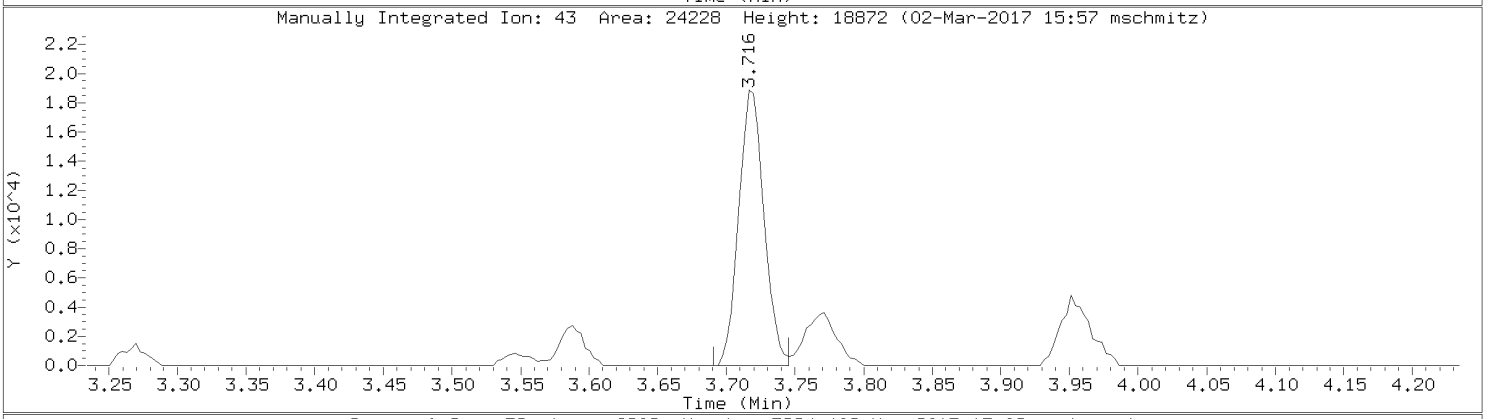


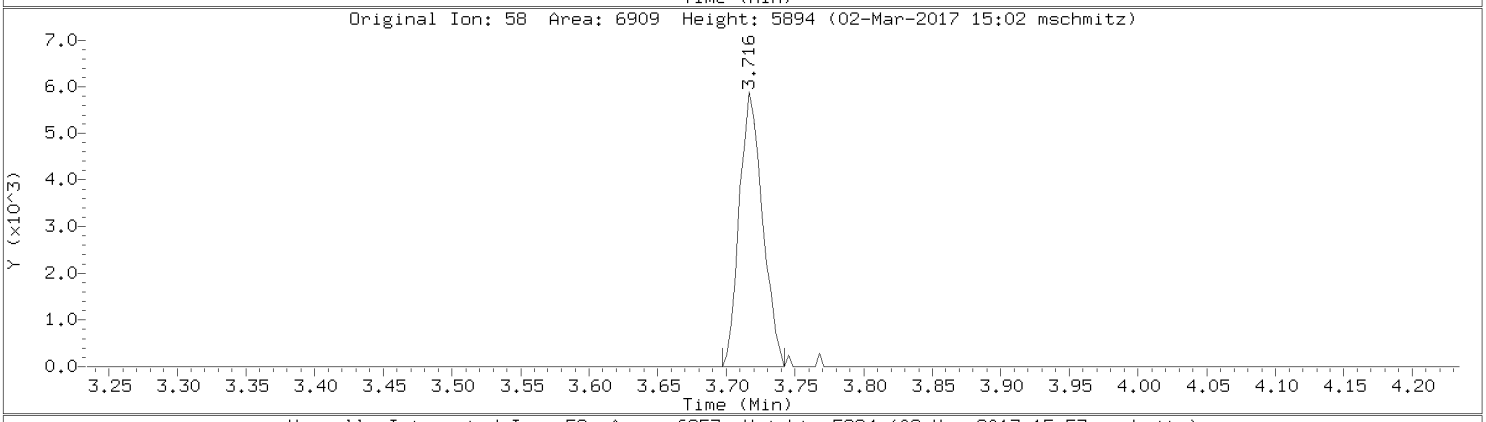


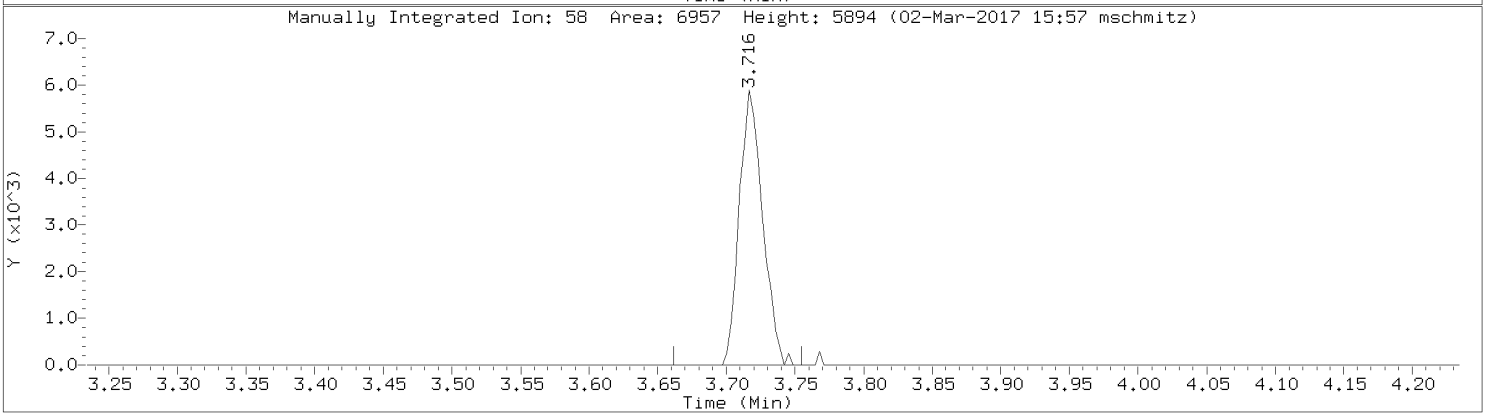
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Acetone
CAS Number: 67-64-1



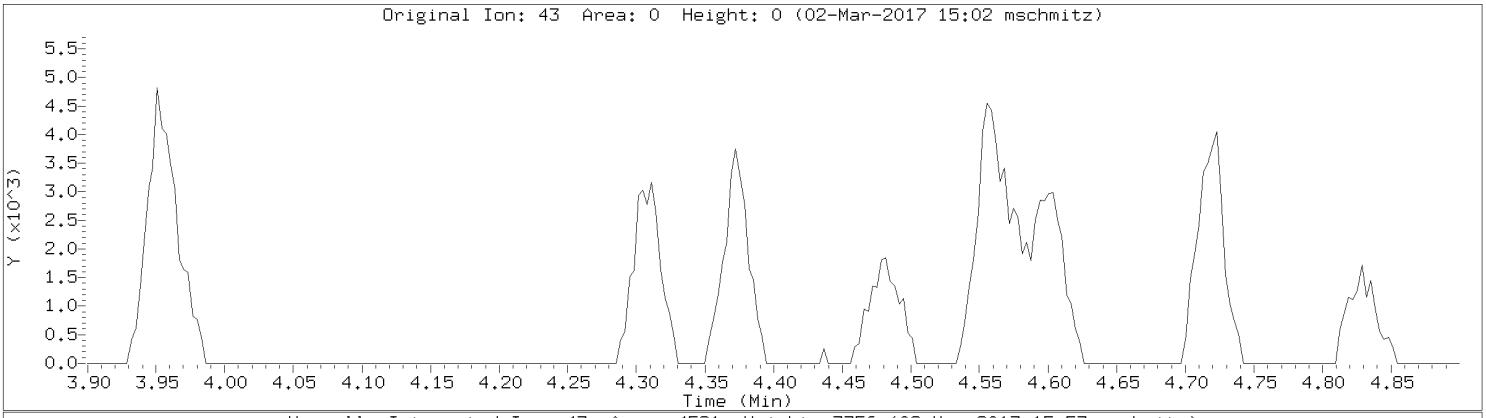


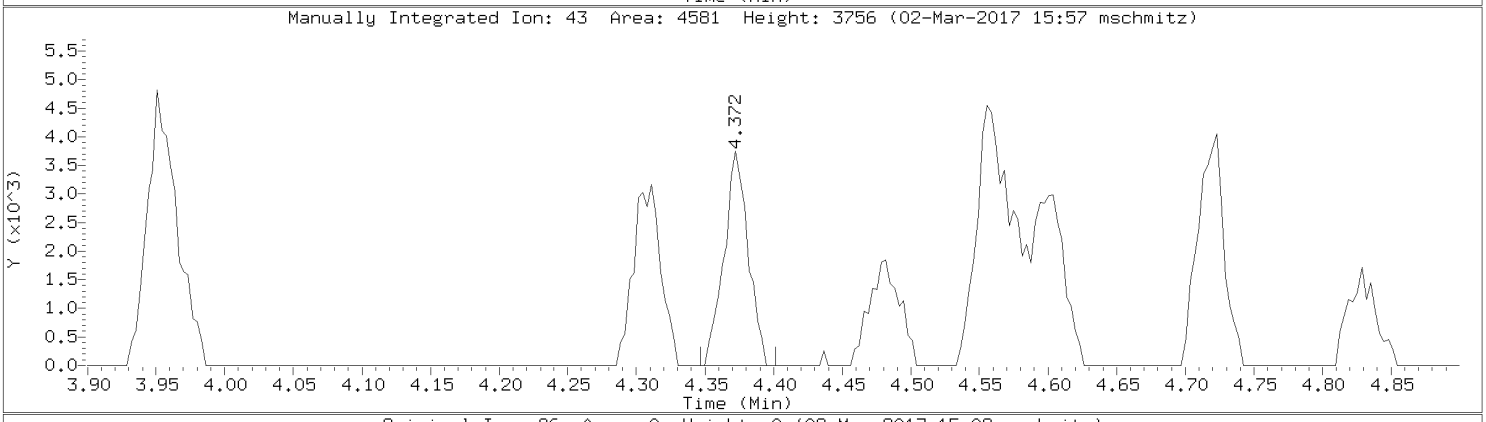


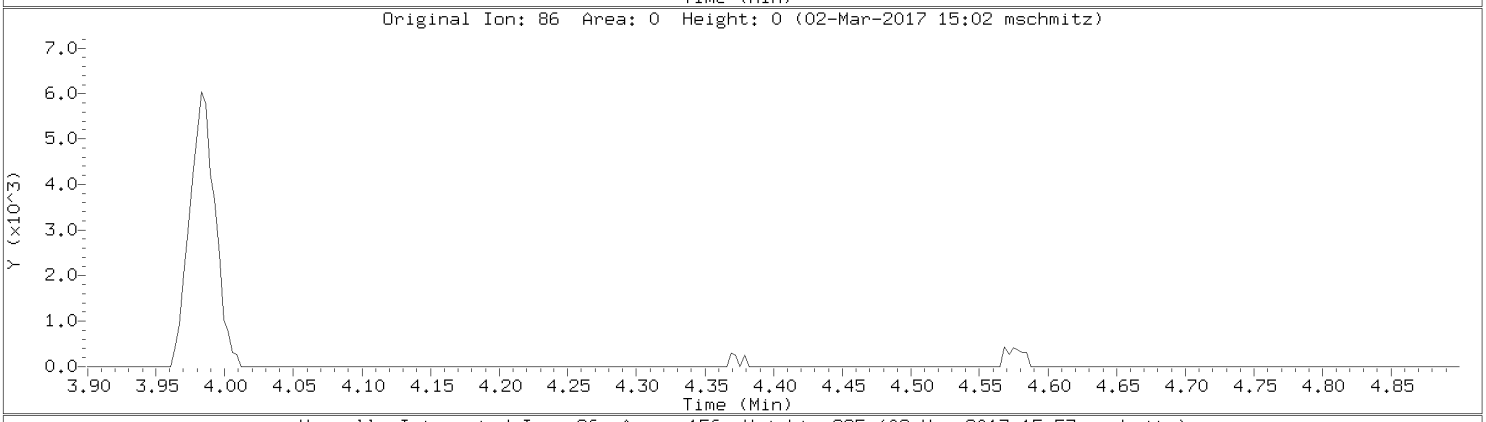


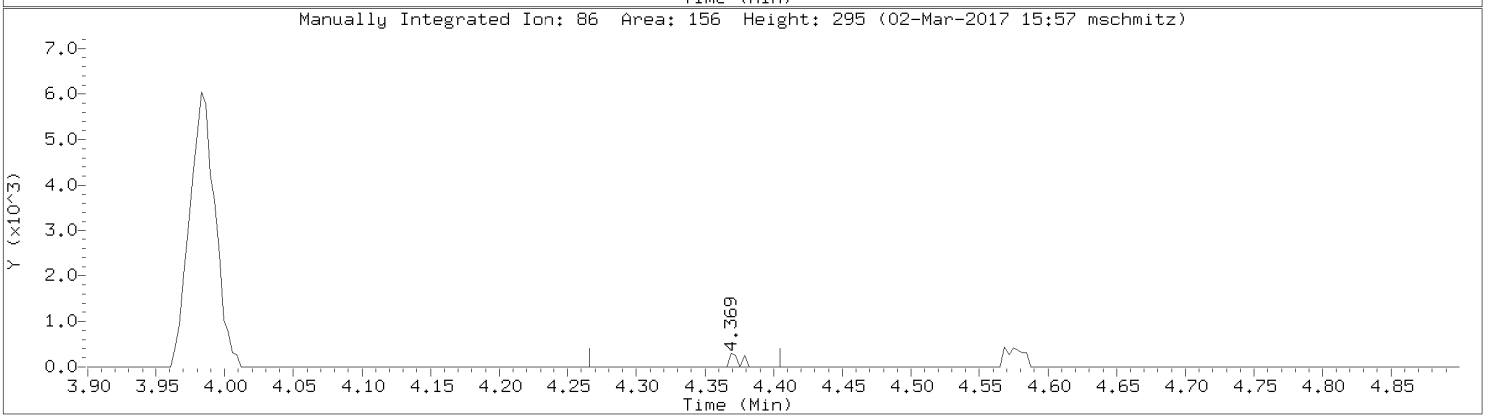
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Vinyl Acetate
CAS Number: 108-05-4



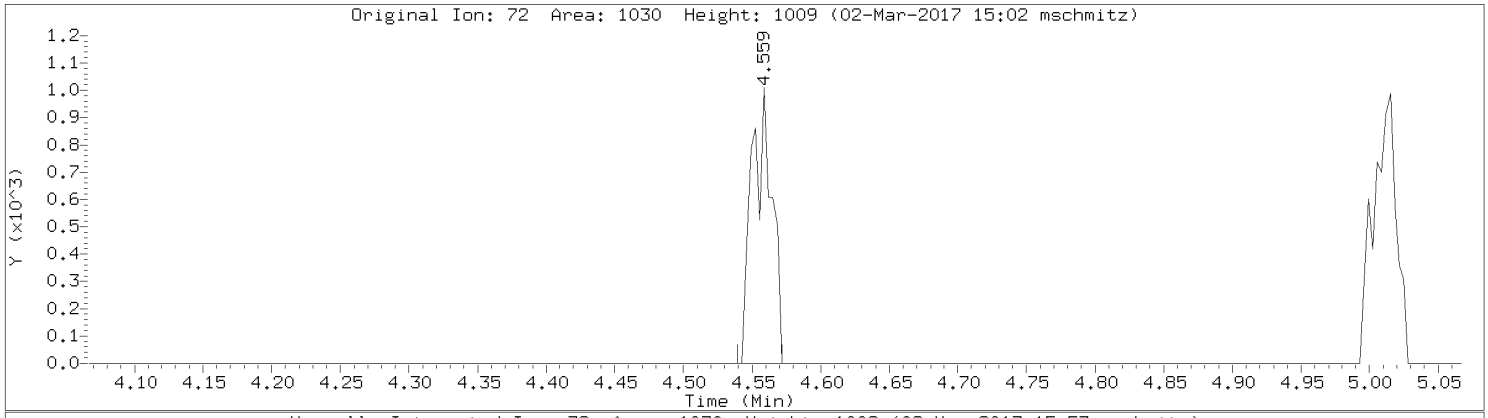


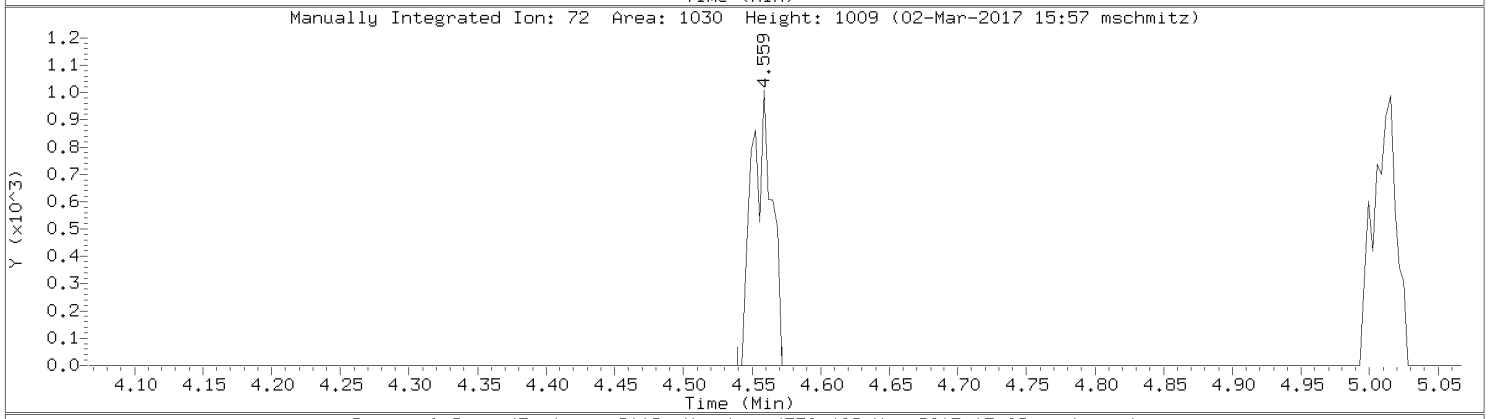


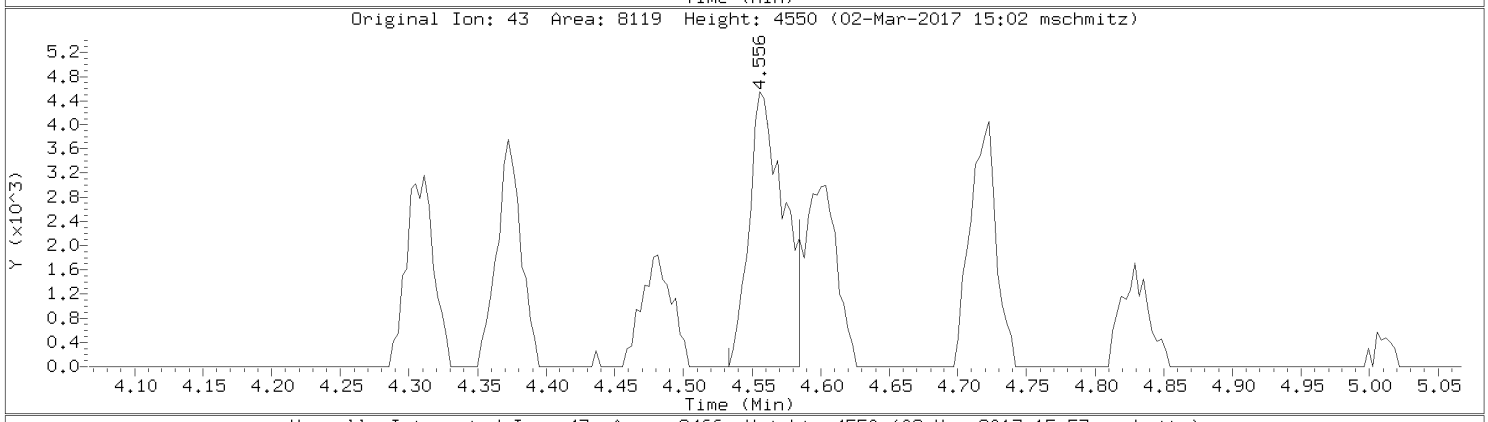


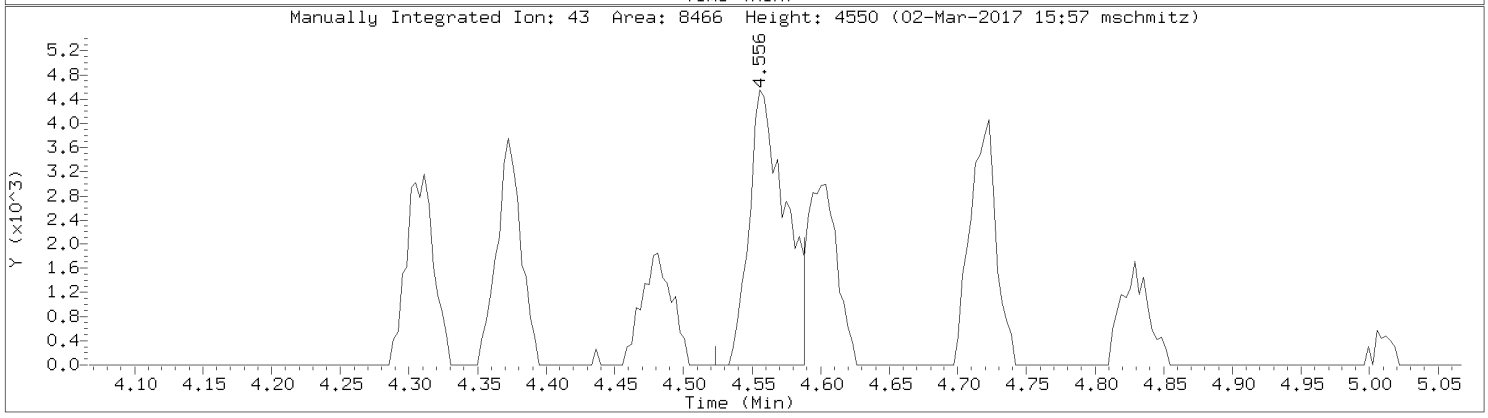
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



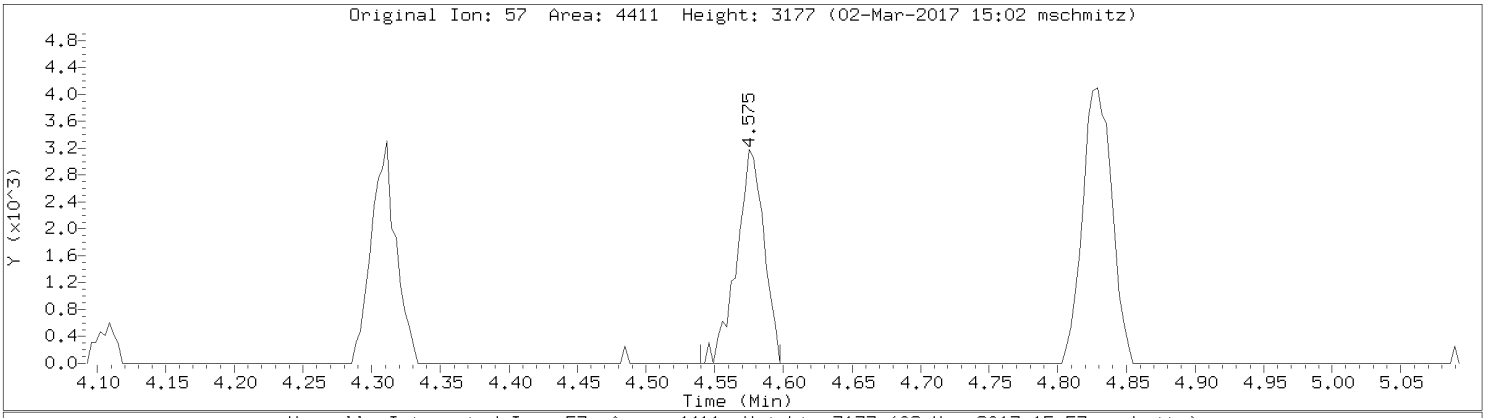


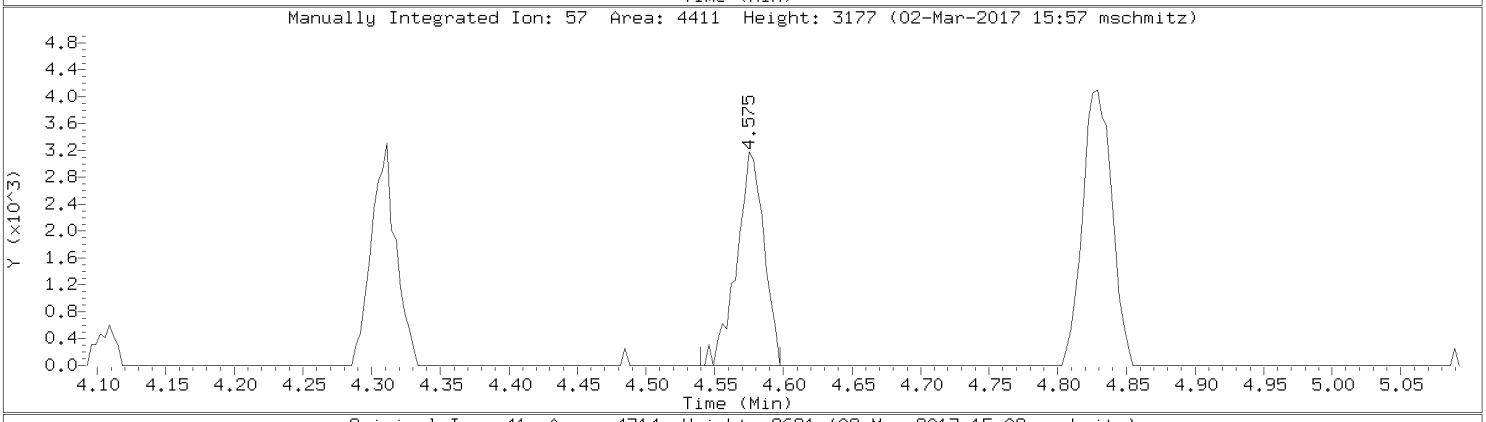


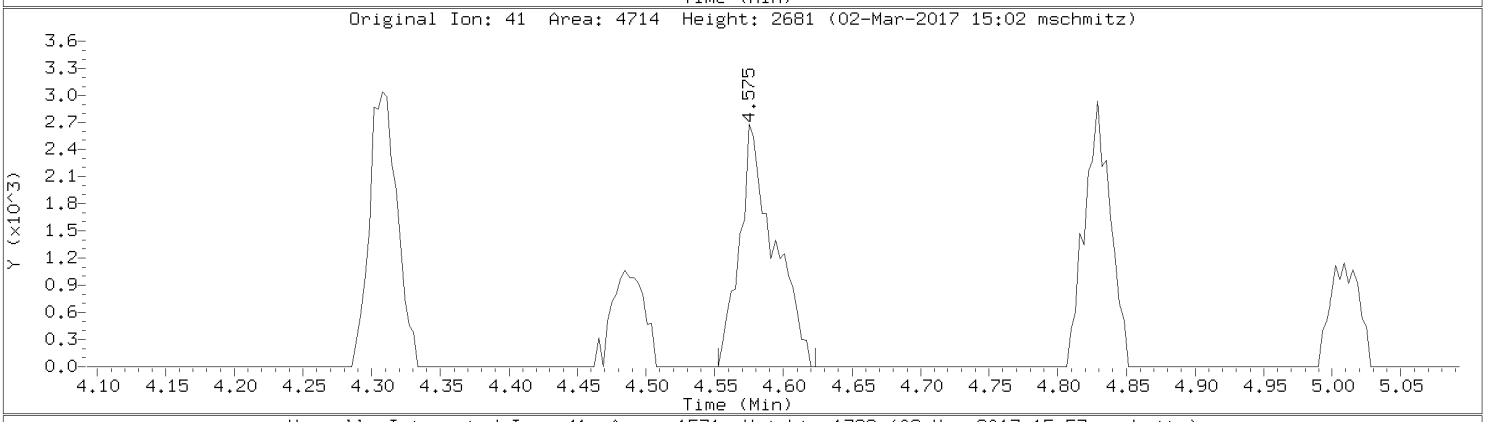


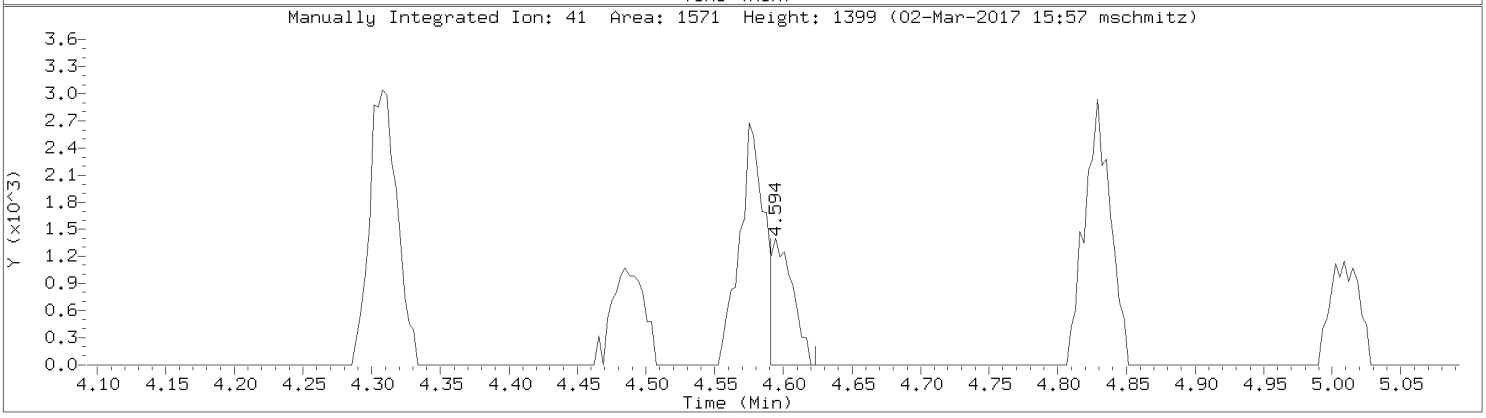
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: n-Hexane
CAS Number: 110-54-3

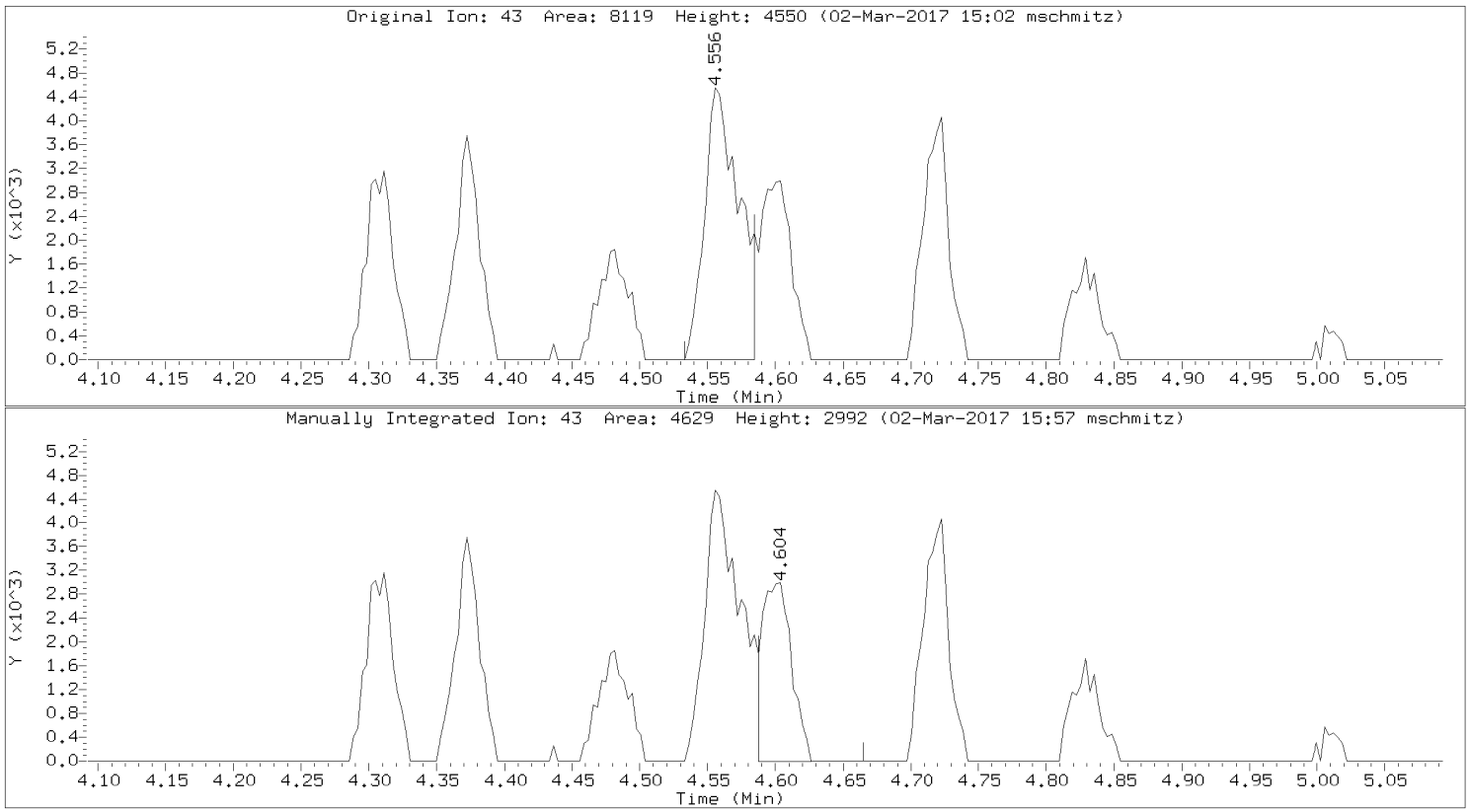






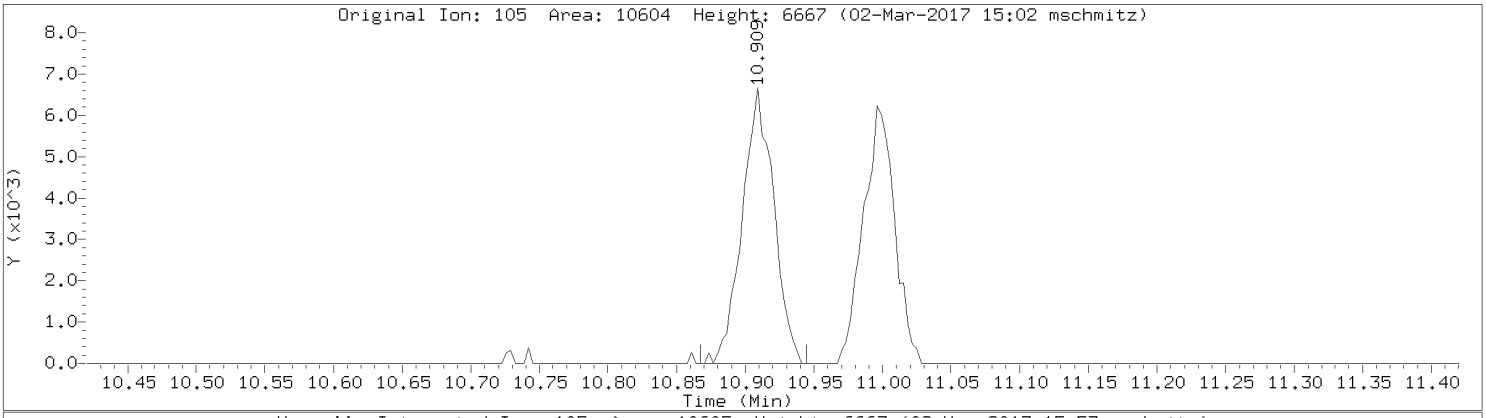


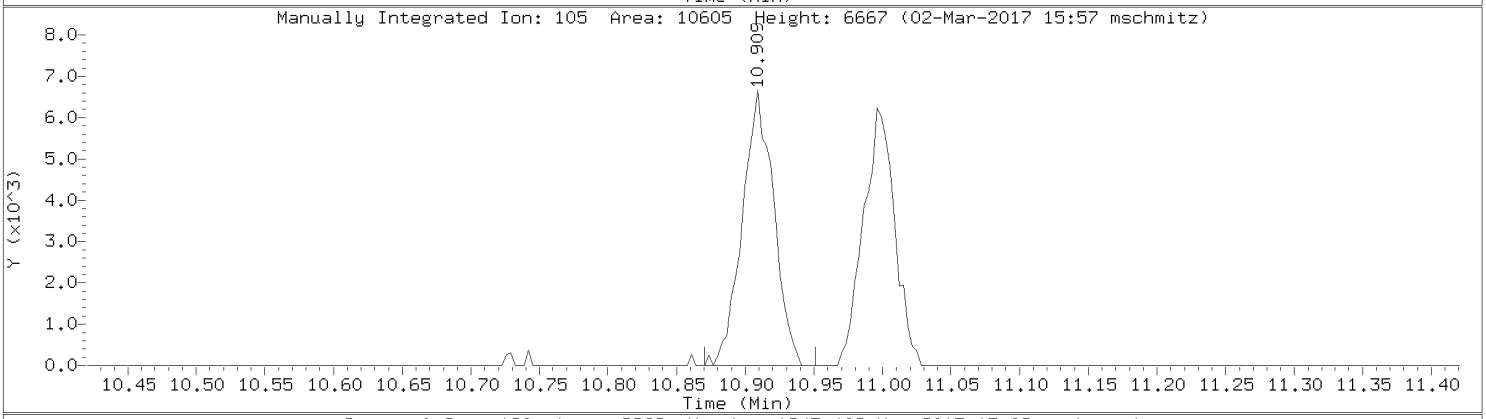
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

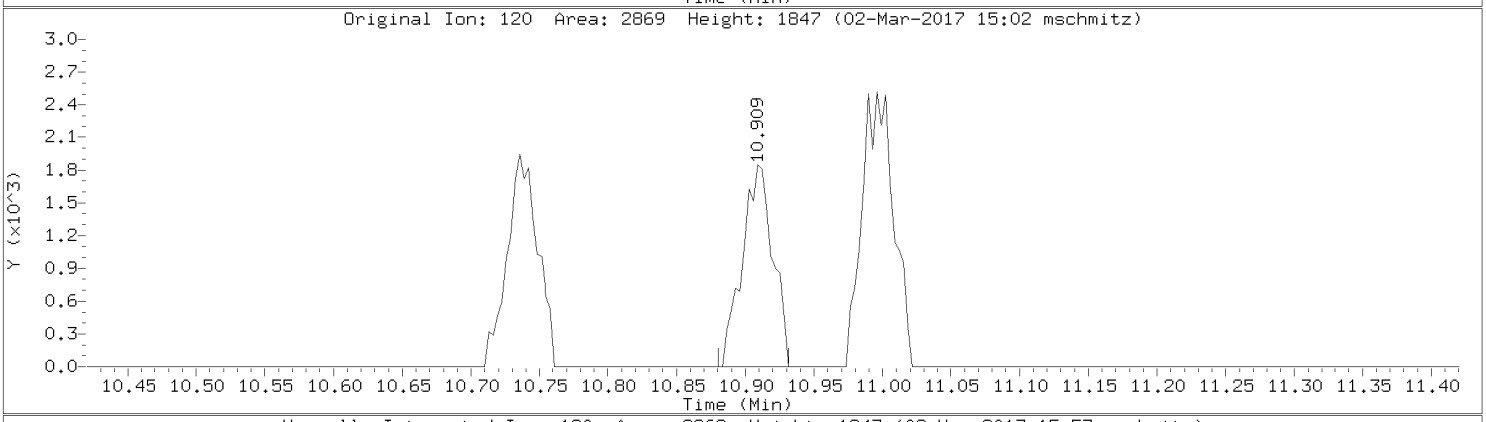


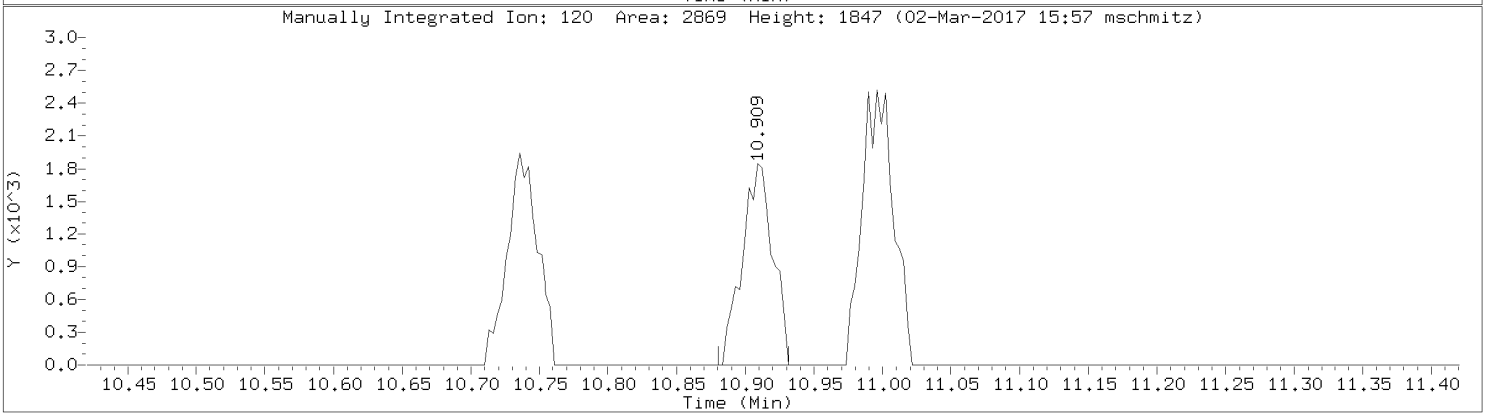
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

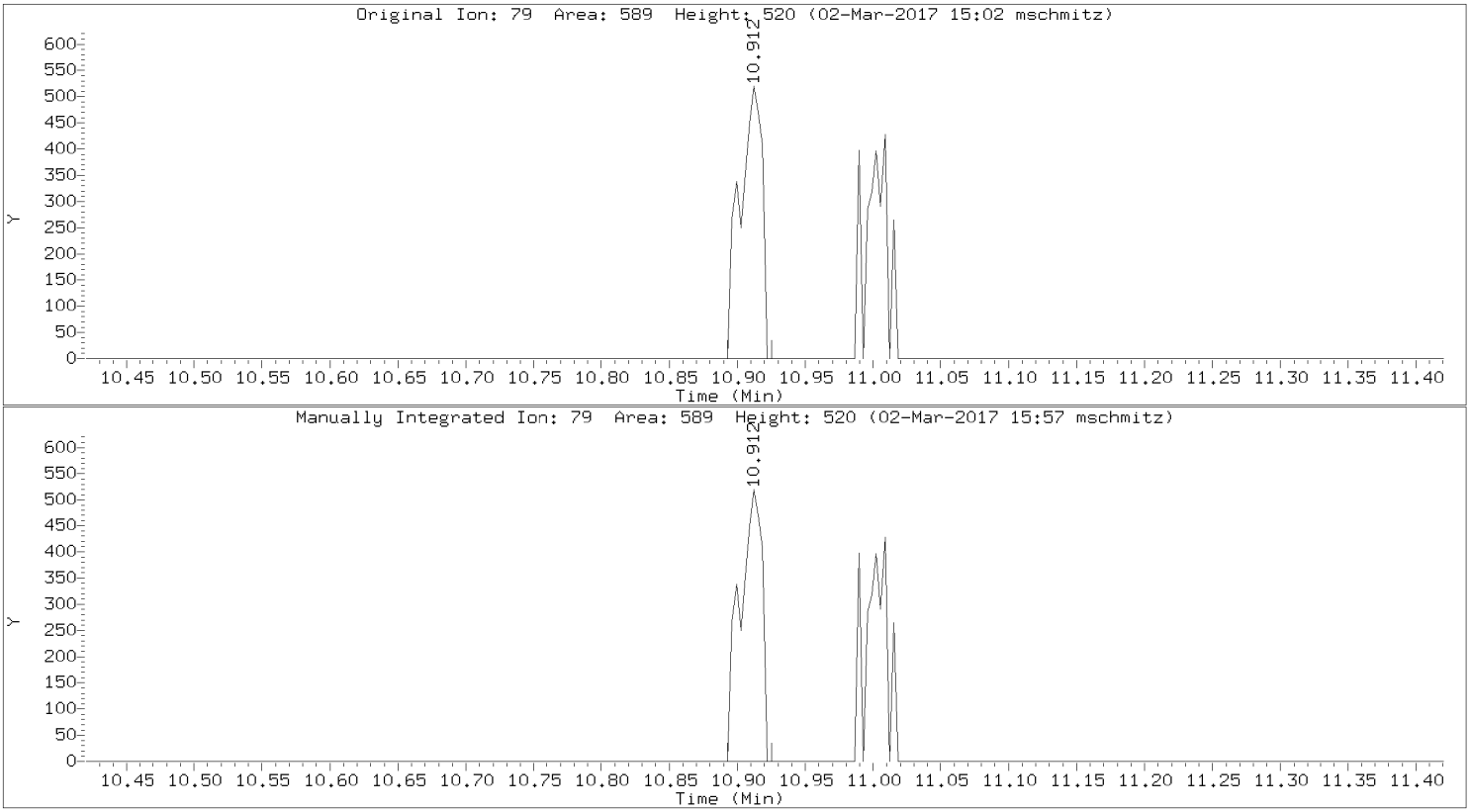






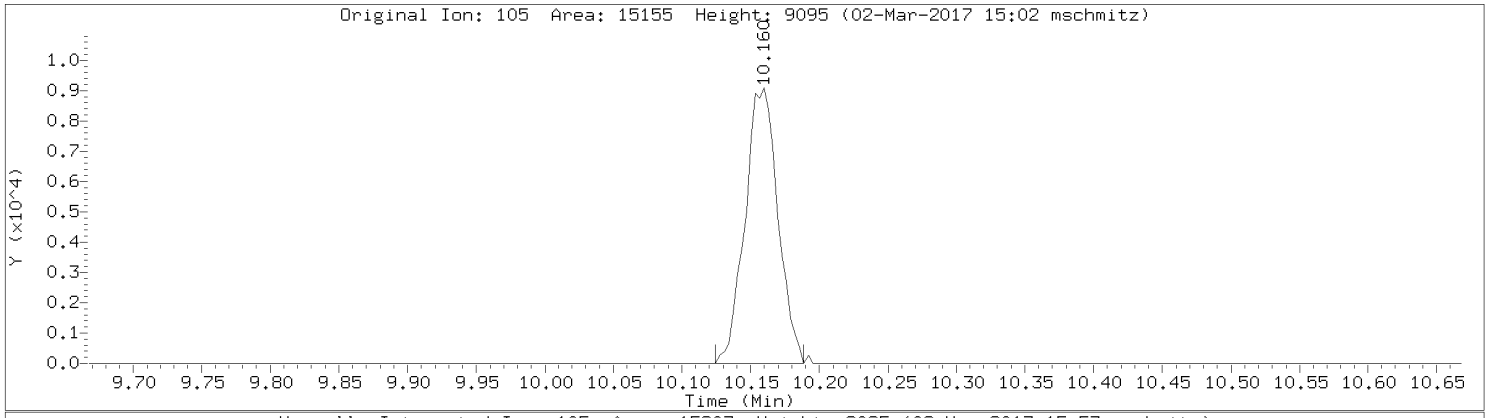


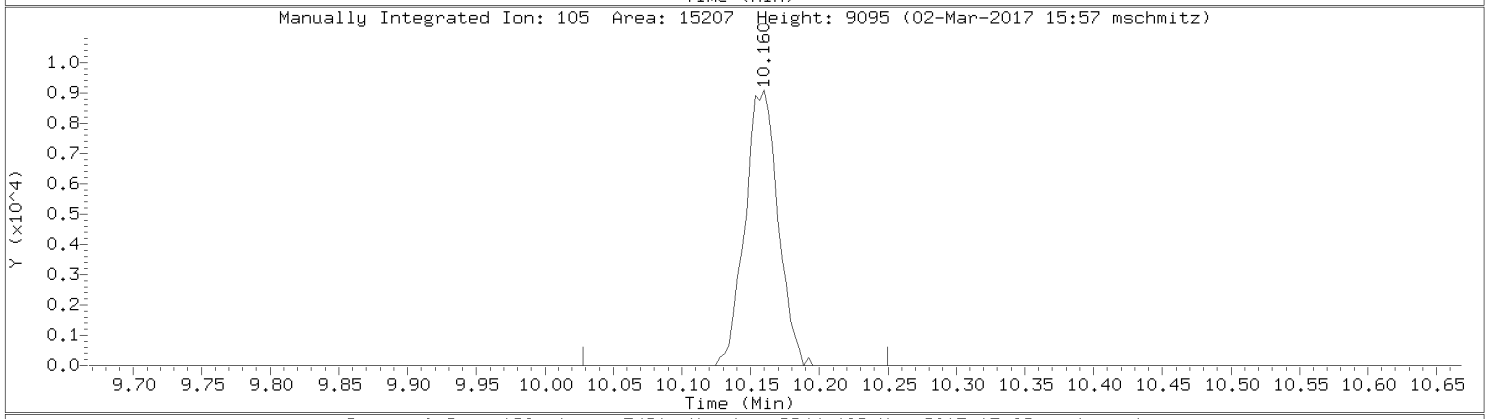
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

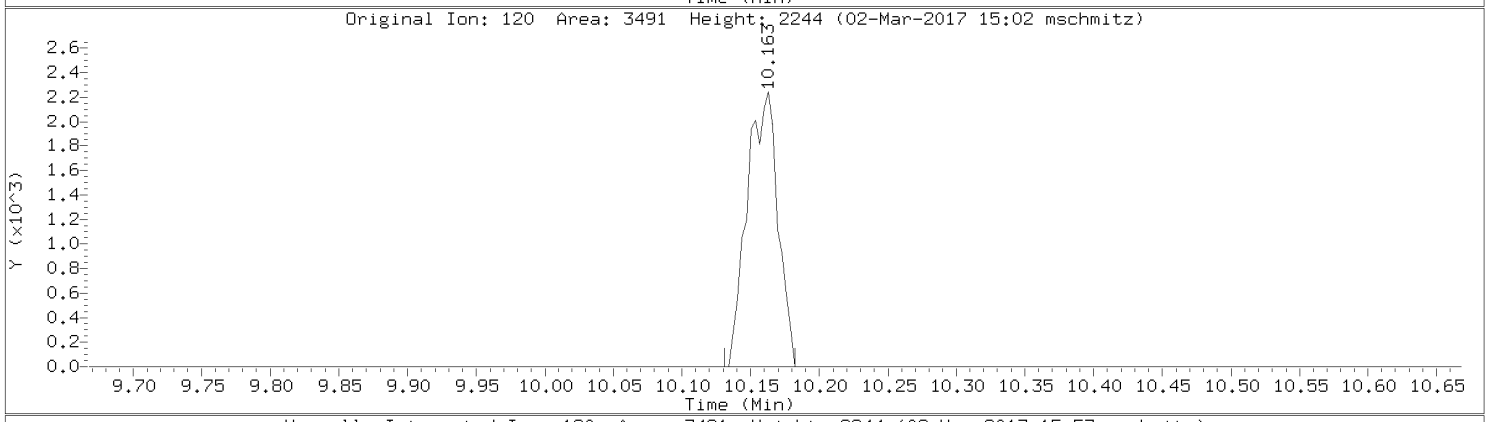


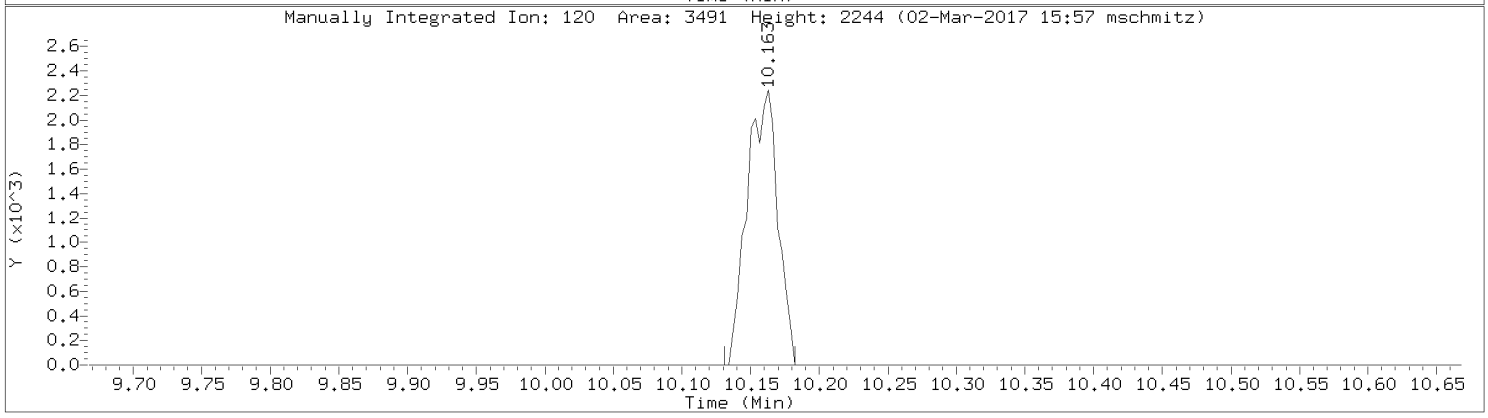
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Isopropylbenzene
CAS Number:



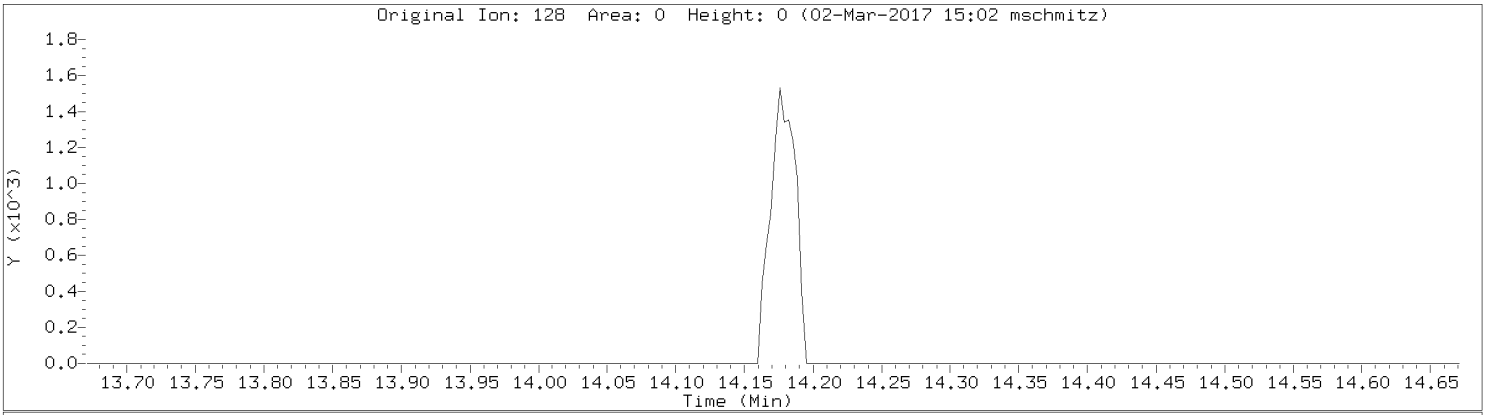


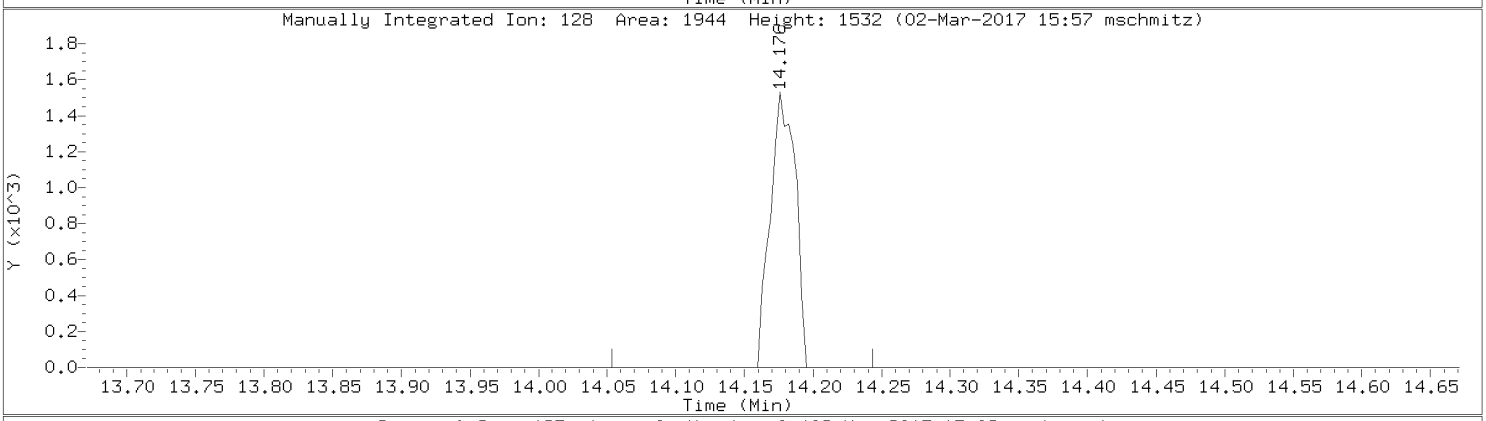


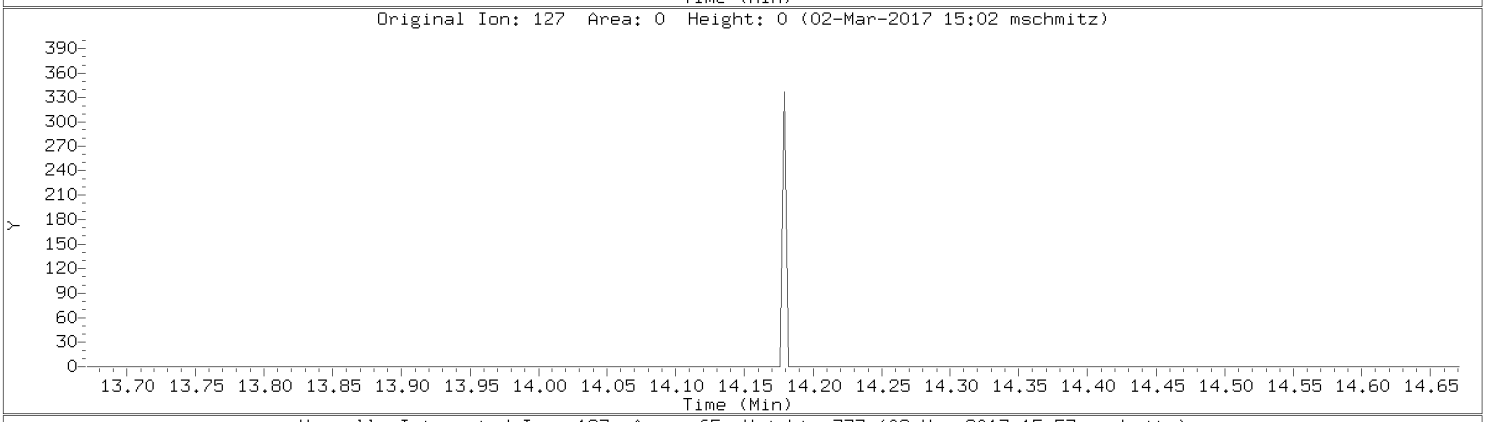


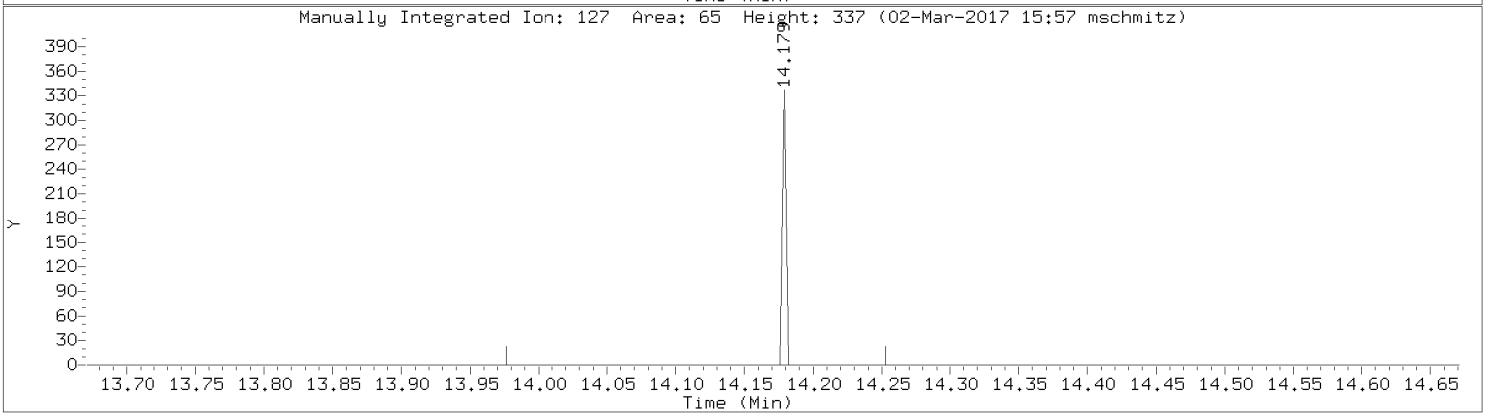
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Naphthalene
CAS Number: 91-20-3



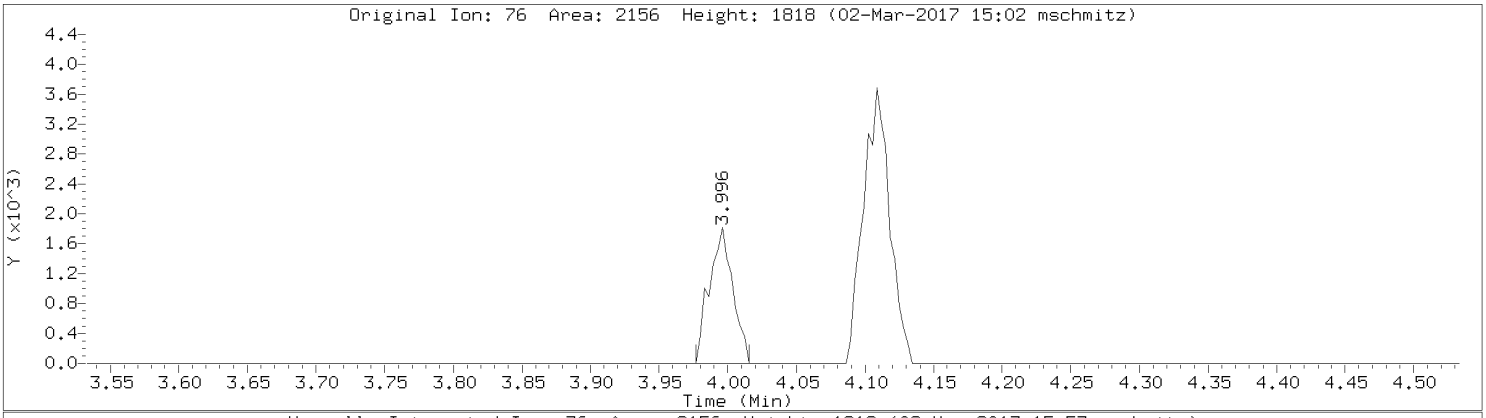


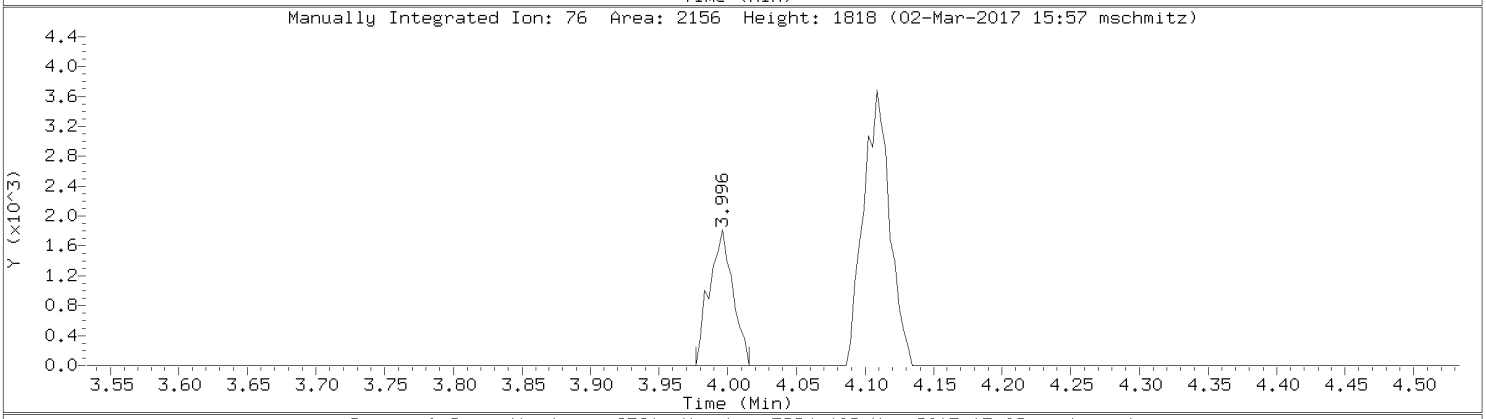


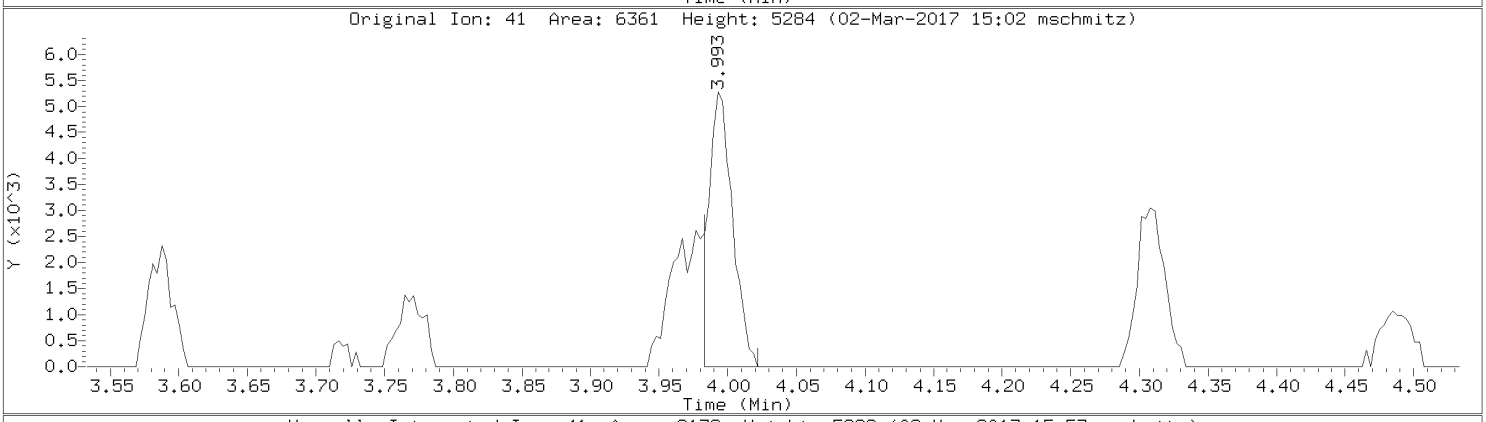


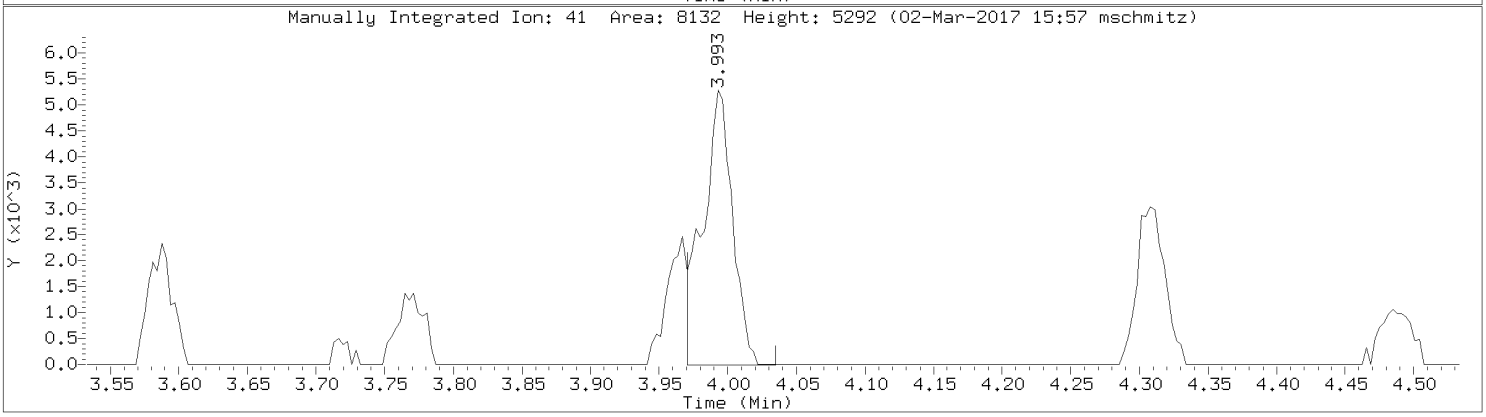
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Allyl Chloride
CAS Number: 107-05-1

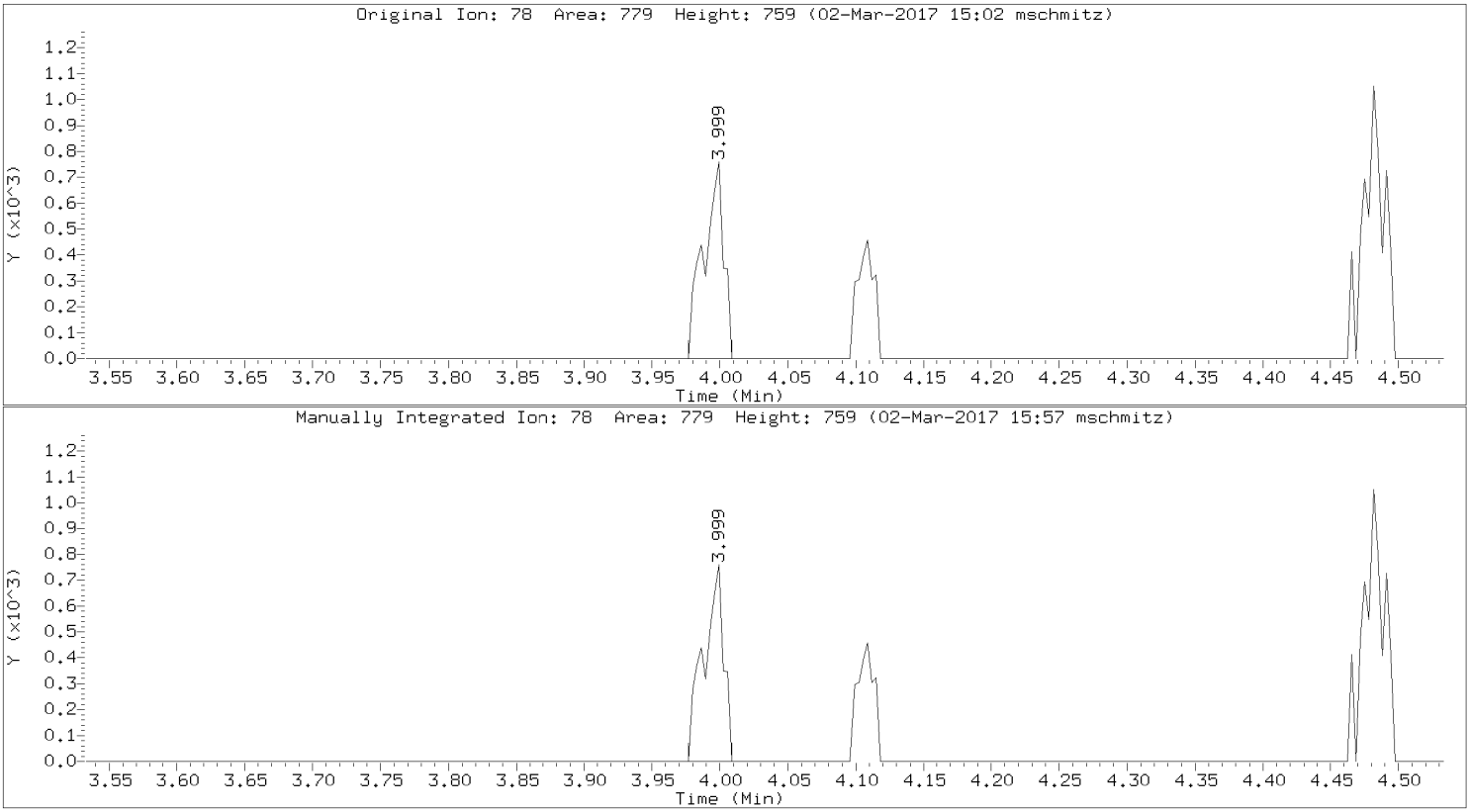






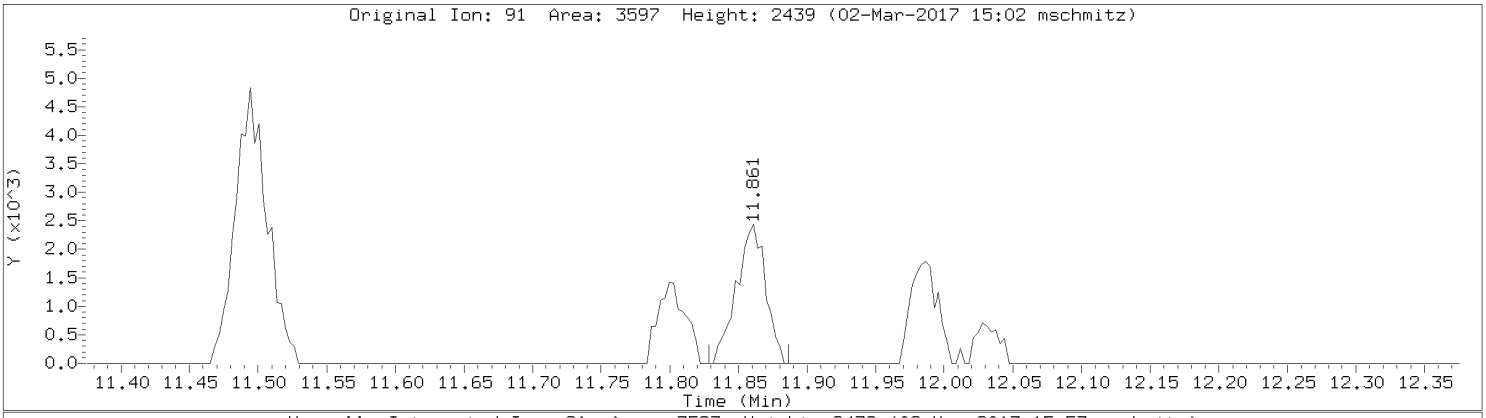


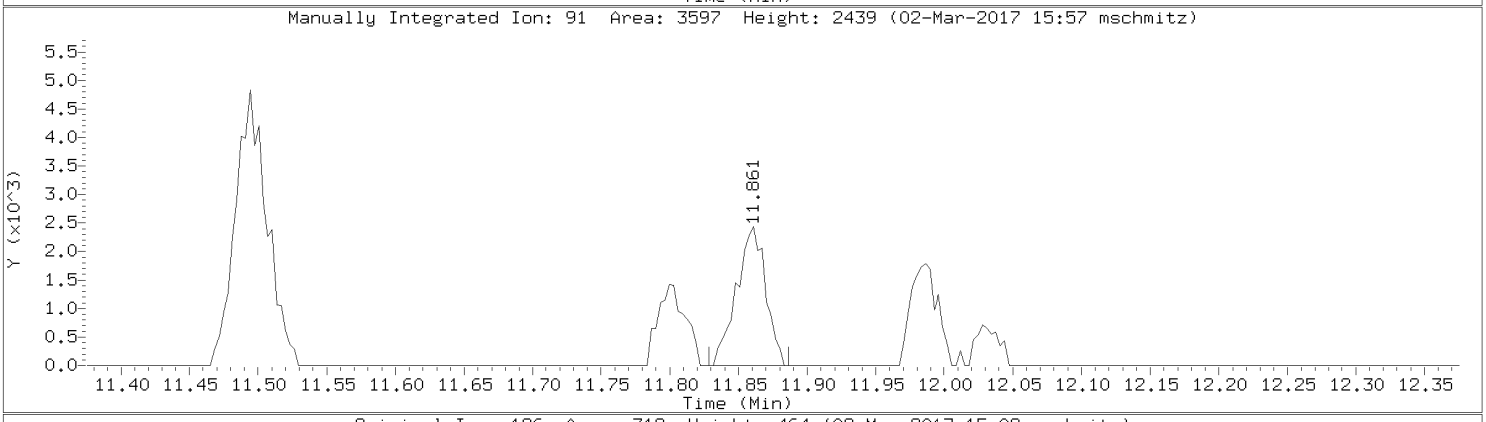
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

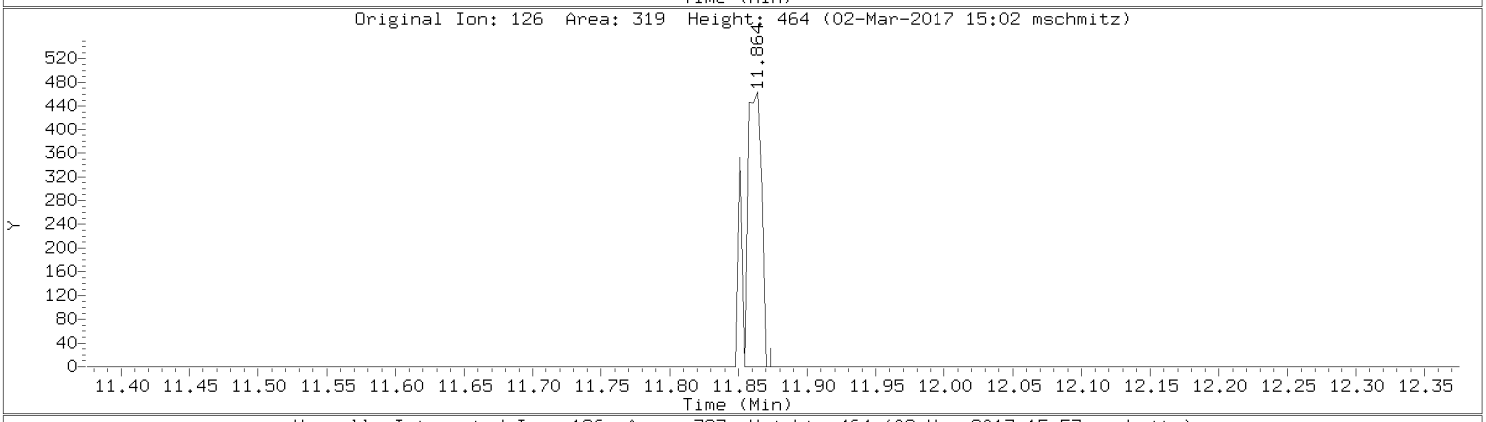


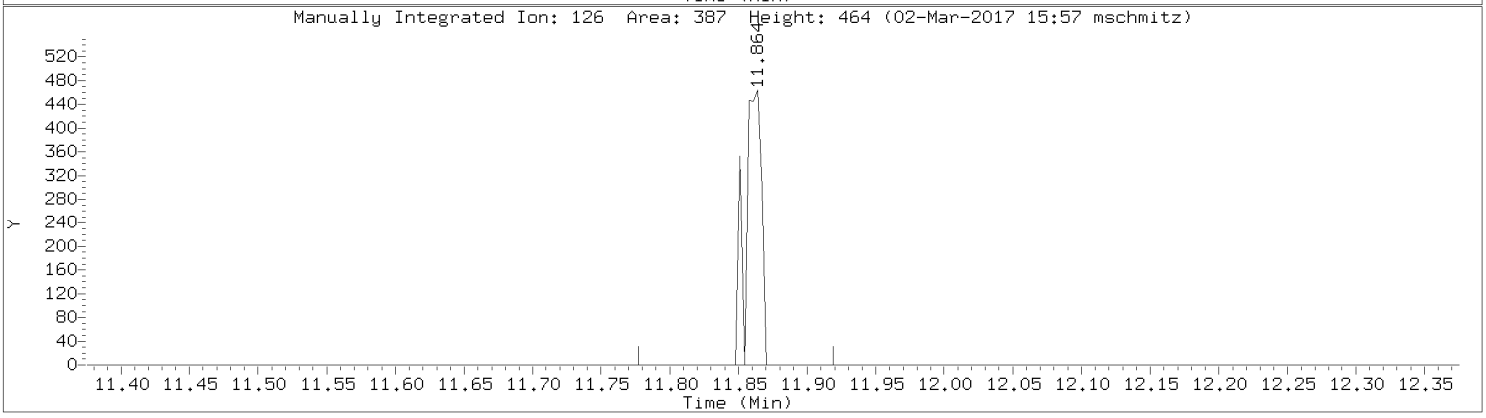
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Benzyl Chloride
CAS Number: 100-44-7



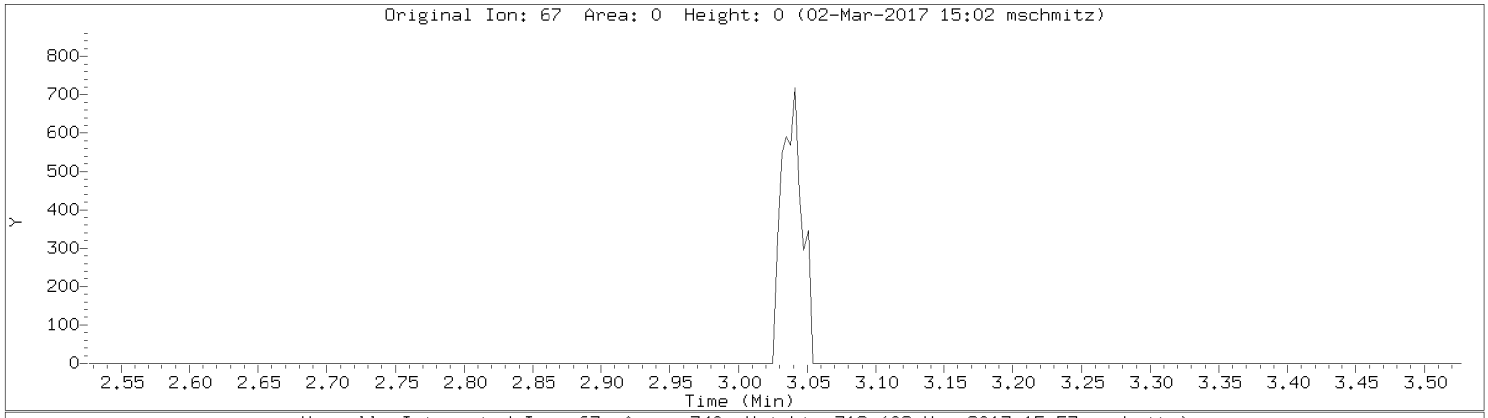


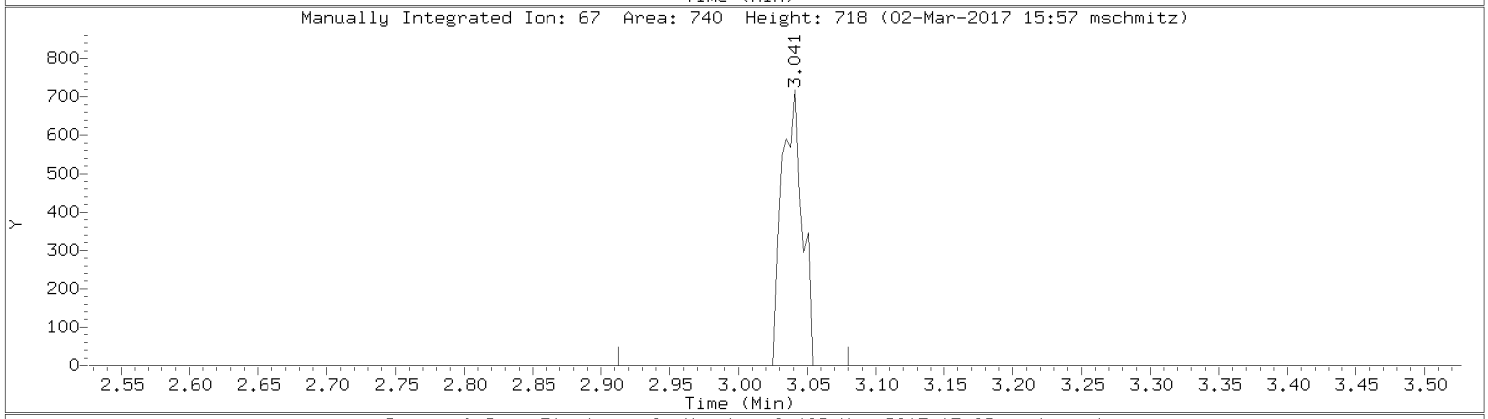


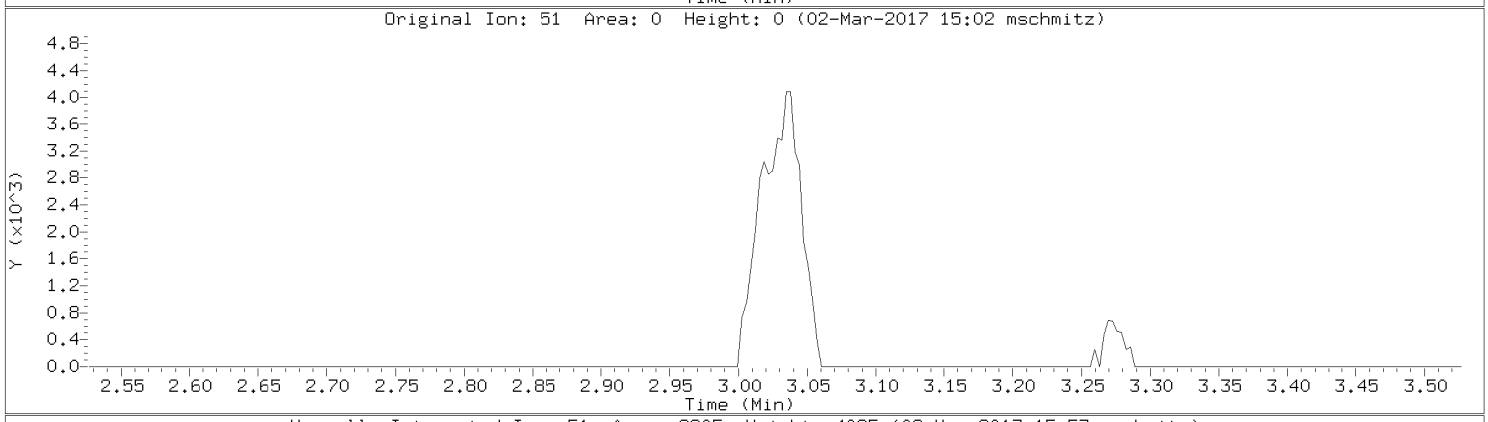


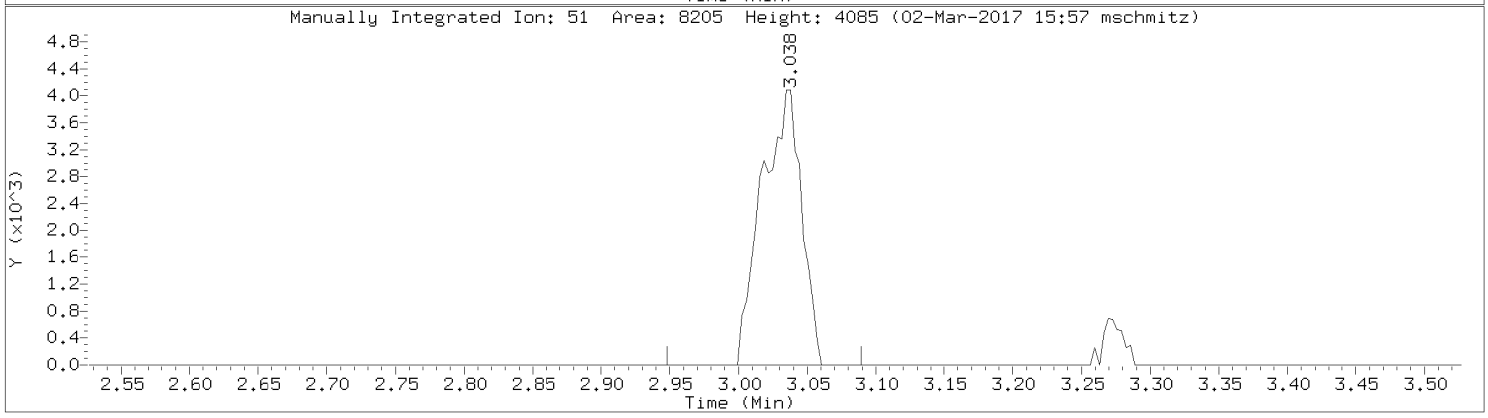
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

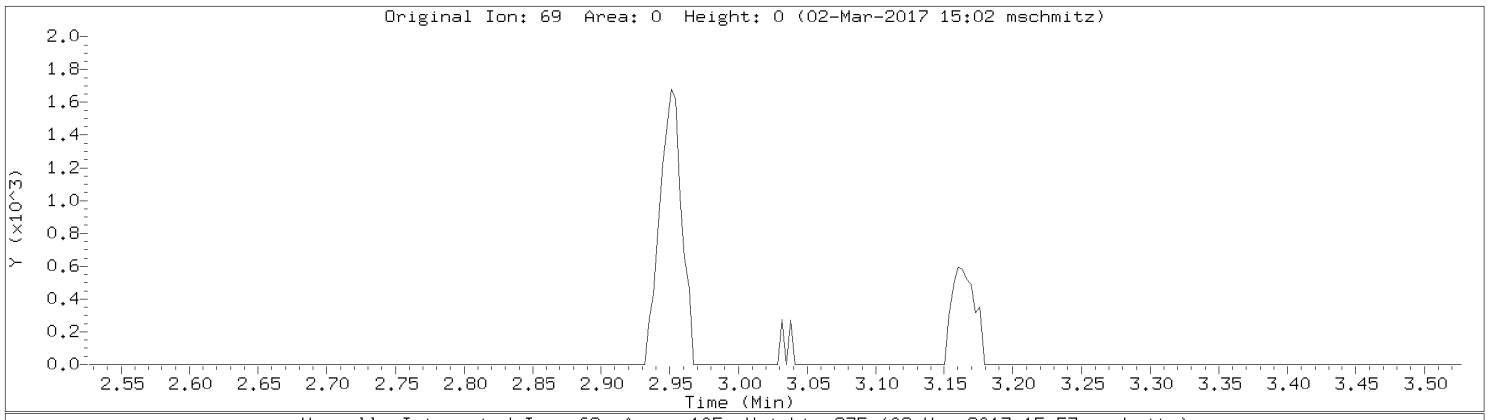


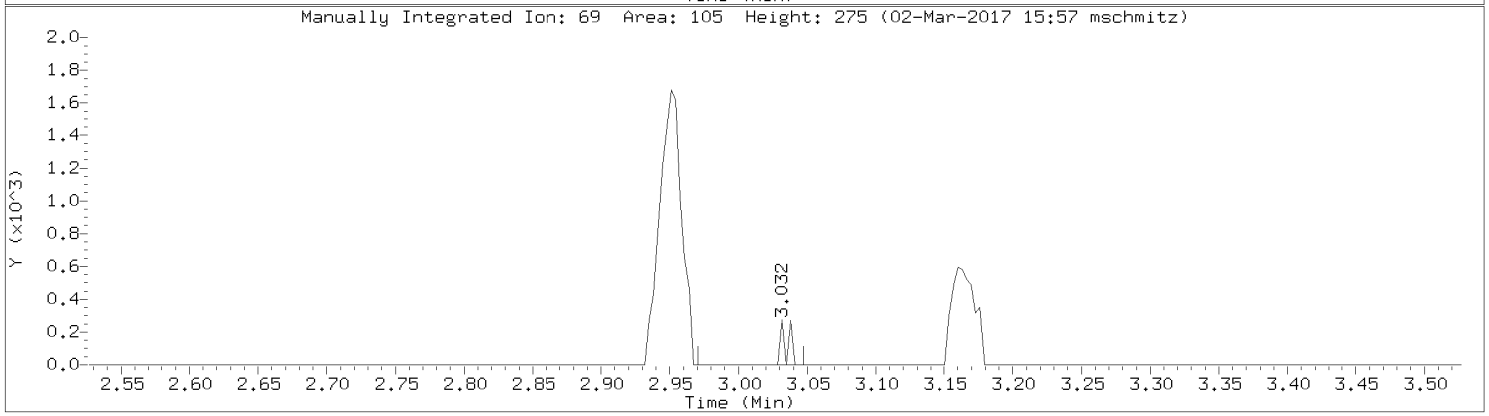






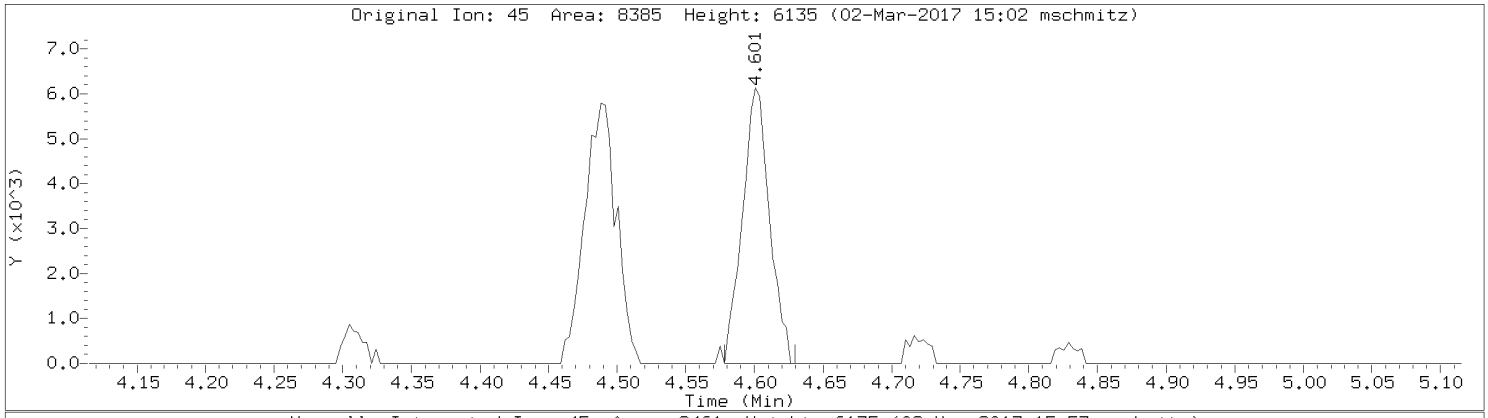
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

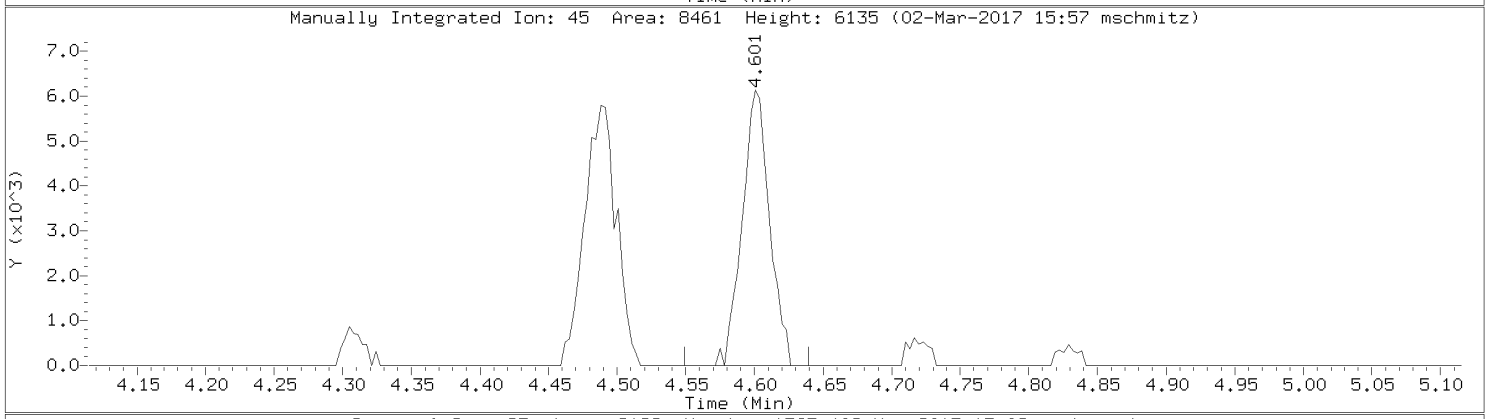


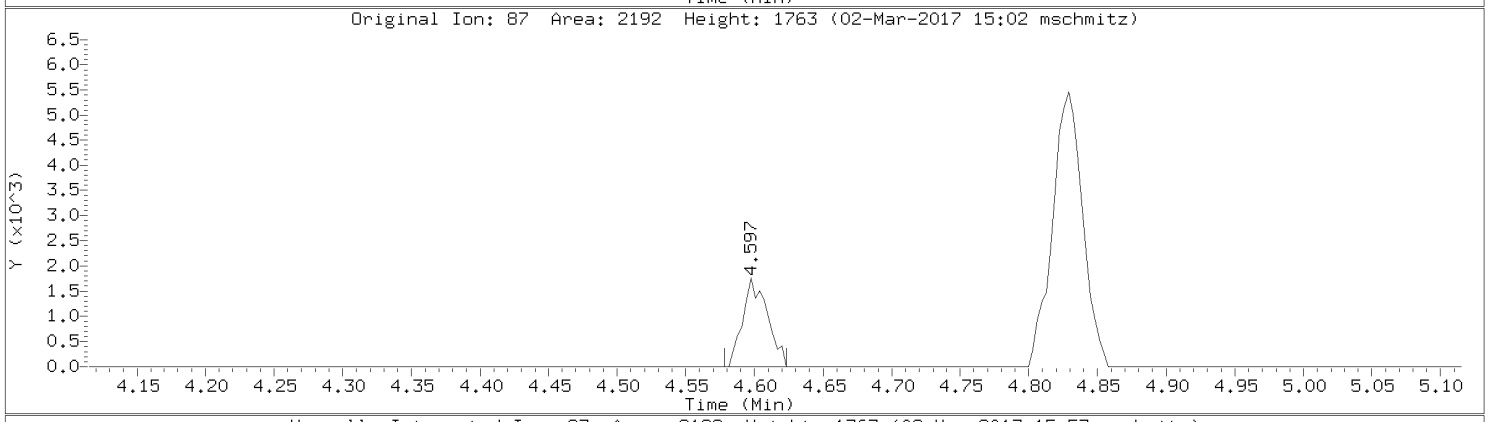


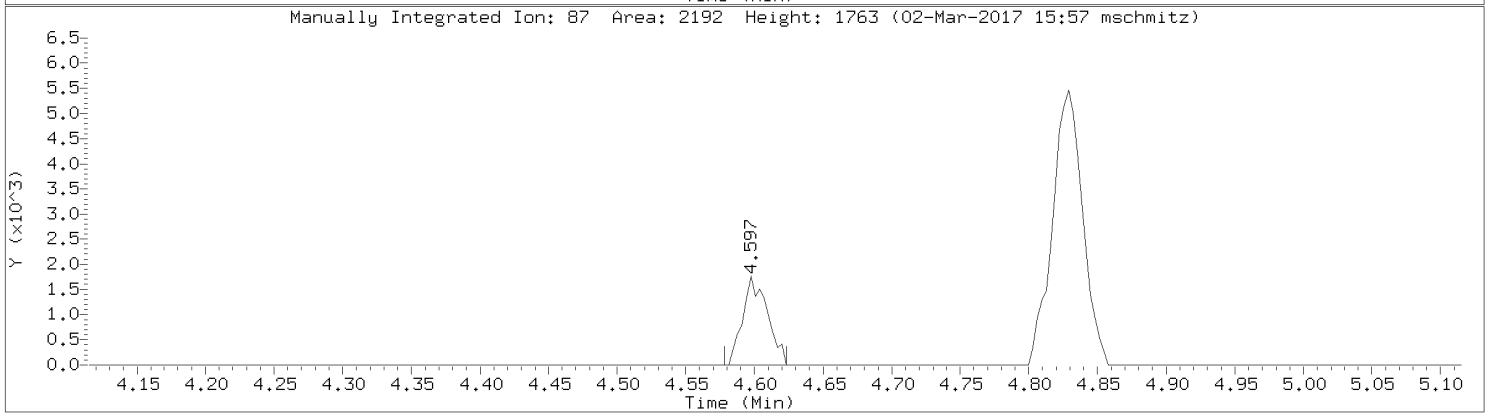
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Di-isopropyl Ether
CAS Number: 108-20-3

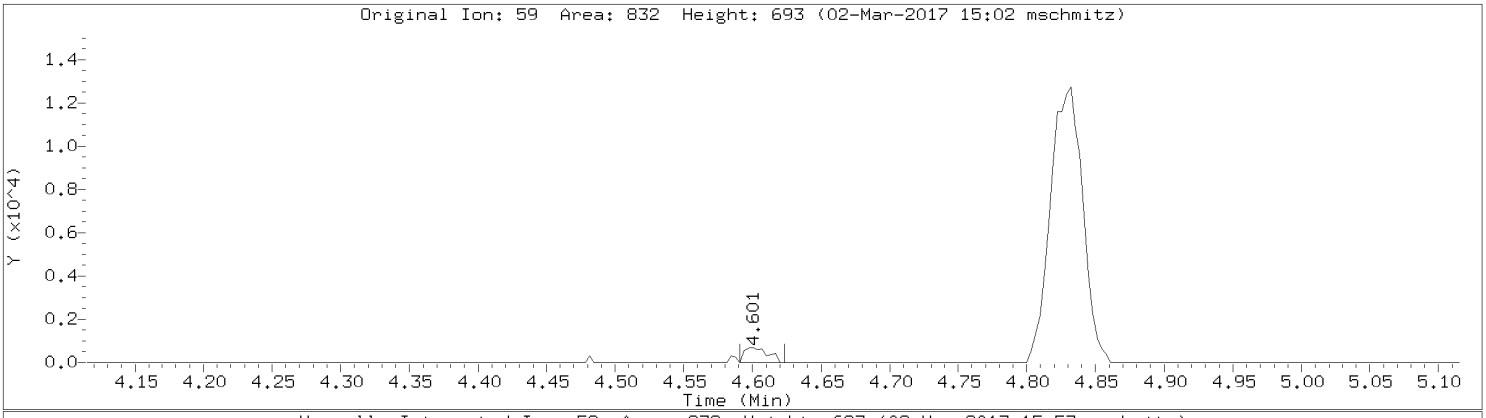


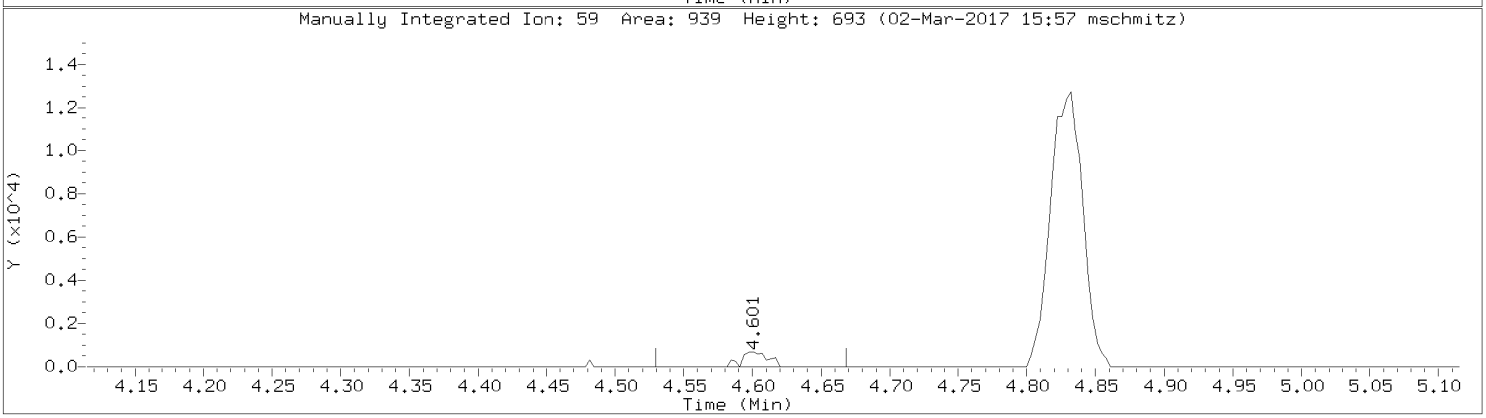






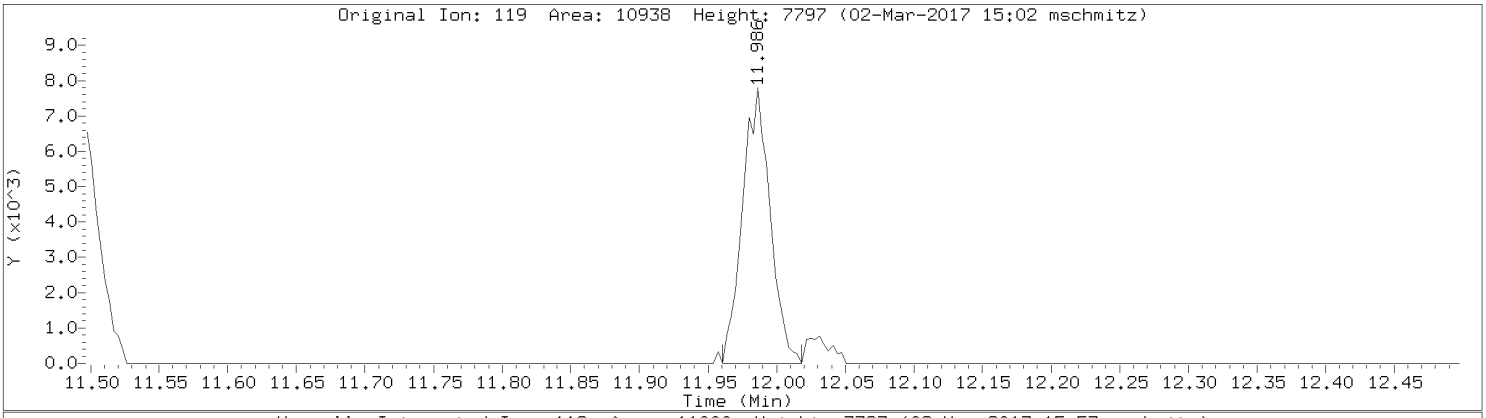
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

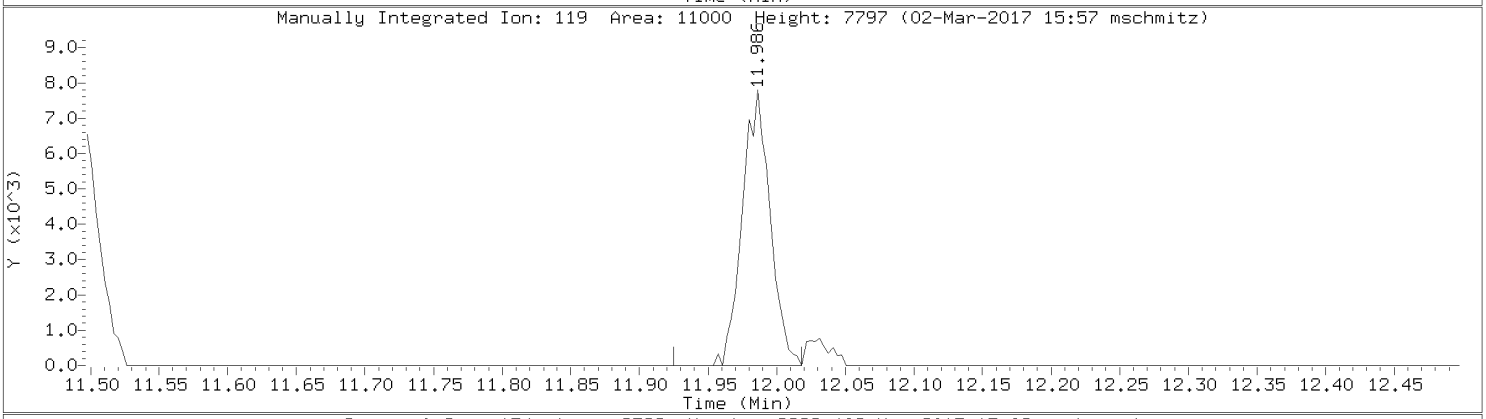


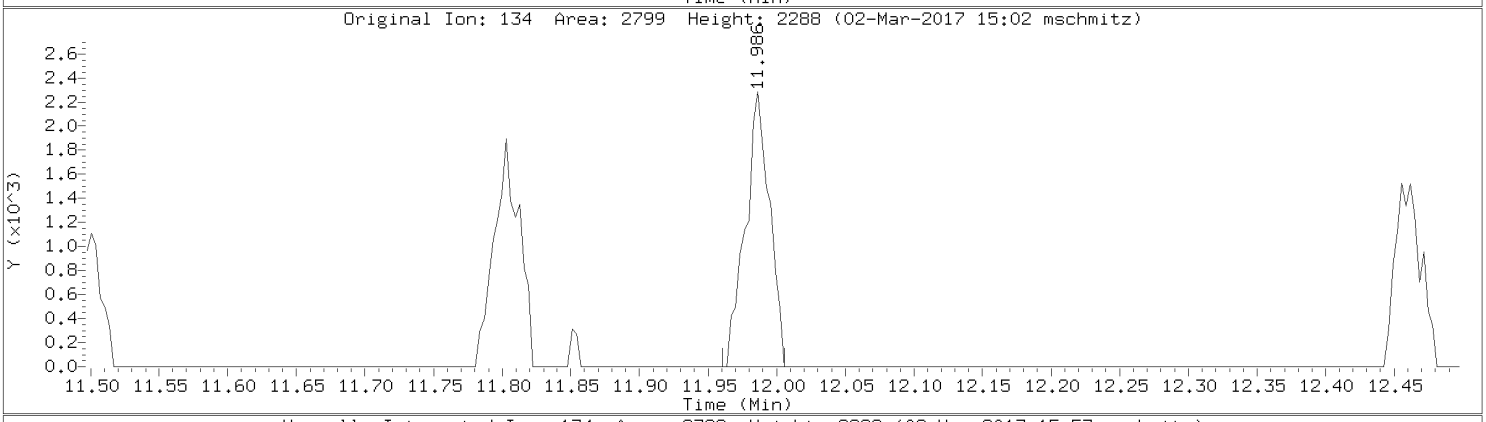


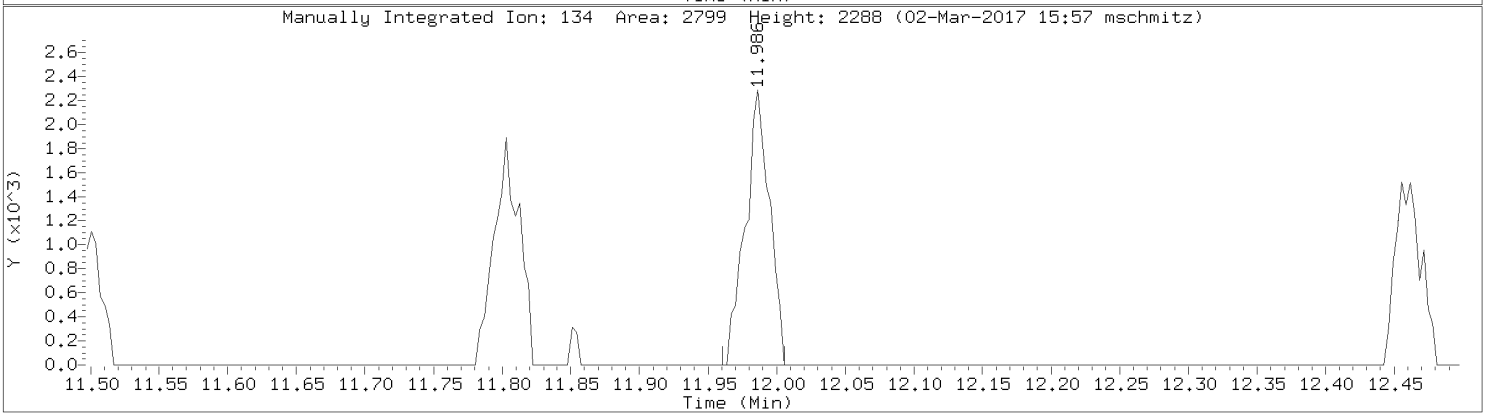
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: p-Isopropyltoluene
CAS Number: 99-87-6

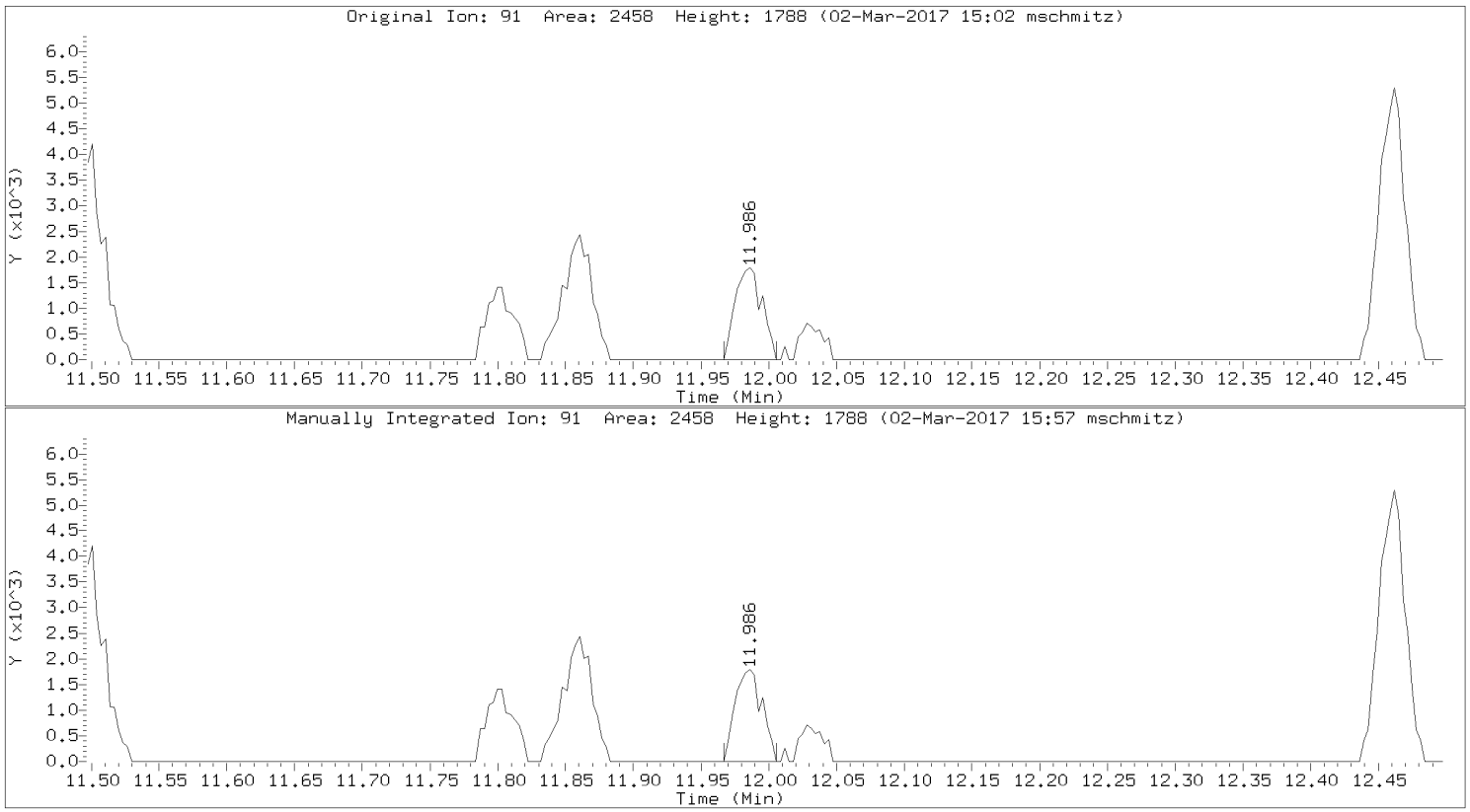








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Lab Smp Id: cal3
Inj Date : 02-MAR-2017 12:14
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:00 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 11:46 Cal File: 06110.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.915	2.915	(0.521)	3232	0.50000	0.431
2	1,1-Difluoroethane	65	2.983	2.983	(0.533)	4099	0.50000	0.501(QM)
3	Chlorodifluoromethane	67	3.005	3.005	(0.537)	2020	0.50000	0.475(QM)
4	Propylene	41	2.999	2.999	(0.536)	12525	0.50000	0.617
5	Dichlorodifluoromethane	85	3.034	3.034	(0.542)	20944	0.50000	0.453
6	Chloromethane	50	3.131	3.131	(0.559)	7549	0.50000	0.471
7	Dichlorotetrafluoroethane	85	3.137	3.137	(0.561)	18899	0.50000	0.488
8	Vinyl chloride	62	3.208	3.208	(0.573)	6947	0.50000	0.501
9	1,3-Butadiene	54	3.246	3.246	(0.580)	5105	0.50000	0.506
10	Bromomethane	94	3.385	3.385	(0.605)	5816	0.50000	0.454
11	Chloroethane	64	3.430	3.430	(0.613)	3156	0.50000	0.495
12	Ethanol	45	3.539	3.539	(0.632)	11951	2.50000	2.33
13	Vinyl Bromide	106	3.545	3.545	(0.633)	6226	0.50000	0.469
14	Isopentane	43	3.565	3.565	(0.637)	8126	0.50000	0.448(H)
15	Freon 123	83	3.581	3.581	(0.640)	15648	0.50000	0.987
16	Trichlorofluoromethane	101	3.639	3.639	(0.650)	18662	0.50000	0.487
17	Acrolein	56	3.664	3.664	(0.655)	4758	1.25000	1.12
18	Acetone	43	3.706	3.706	(0.662)	54960	2.50000	2.48
19	Isopropyl Alcohol	45	3.758	3.758	(0.671)	55961	2.50000	2.48
20	1,1-Dichloroethene	61	3.877	3.877	(0.693)	10524	0.50000	0.473
21	Acrylonitrile	53	3.896	3.896	(0.696)	12529	1.25000	1.22(M)
22	Freon 113	101	3.922	3.922	(0.701)	15039	0.50000	0.520
23	Methyl Acetate	43	3.944	3.944	(0.705)	16843	0.50000	0.499

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.706)	37120	1.25000	1.28(Q)
	25 Methylene chloride	49	3.973	3.973	(0.710)	39668	2.50000	2.54
	26 Allyl Chloride	76	3.986	3.986	(0.712)	5091	1.25000	1.12(Q)
	27 Carbon Disulfide	76	4.089	4.089	(0.731)	14262	0.50000	0.484
	28 trans-1,2-dichloroethene	96	4.246	4.246	(0.759)	6628	0.50000	0.531(M)
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.768)	45813	1.25000	1.29
	30 Vinyl Acetate	43	4.365	4.365	(0.780)	11738	0.50000	0.494(H)
	31 1,1-Dichloroethane	63	4.381	4.381	(0.783)	12421	0.50000	0.510
$	32 Hexane-d14(S)	66	4.475	4.475	(0.800)	439606	10.0000	9.90
	33 Methyl Ethyl Ketone	72	4.549	4.549	(0.813)	3113	0.50000	0.541(Q)
	34 n-Hexane	57	4.571	4.571	(0.817)	11001	0.50000	0.494(M)
	35 Di-isopropyl Ether	45	4.594	4.594	(0.821)	21409	0.50000	0.496
	36 Ethyl Acetate	43	4.713	4.713	(0.842)	14116	0.50000	0.493
	37 cis-1,2-Dichloroethene	96	4.693	4.693	(0.839)	6692	0.50000	0.479
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.862)	53479	1.25000	1.18
	39 Chloroform	83	4.812	4.812	(0.860)	14111	0.50000	0.488
	40 Tetrahydrofuran	42	4.999	4.999	(0.893)	7831	0.50000	0.506
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	16939	0.50000	0.498
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	13072	0.50000	0.506
	43 Benzene	78	5.446	5.446	(0.973)	23204	0.50000	0.515
	44 Carbon tetrachloride	117	5.465	5.465	(0.976)	16913	0.50000	0.497
	45 Cyclohexane	56	5.475	5.475	(0.978)	11802	0.50000	0.524
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(1.001)	35082	0.50000	0.510
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1396320	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.754	(1.028)	87605	1.25000	1.26
	49 Heptane	43	5.873	5.873	(1.049)	12303	0.50000	0.489
	50 1,2-Dichloropropane	63	5.951	5.951	(1.063)	8119	0.50000	0.498
	51 Trichloroethene	130	5.973	5.973	(1.067)	11856	0.50000	0.505
	52 Methyl methacrylate	69	6.041	6.041	(1.079)	6980	0.50000	0.457(Q)
	53 1,4-Dioxane	88	6.082	6.082	(1.087)	4959	0.50000	0.471
	54 Bromodichloromethane	83	6.069	6.069	(1.084)	15732	0.50000	0.473
	55 Methylcyclohexane	98	6.417	6.417	(1.146)	5684	0.50000	0.456
	56 Methyl Isobutyl Ketone	43	6.532	6.532	(1.167)	41535	1.25000	1.21
	57 cis-1,3-Dichloropropene	75	6.581	6.581	(1.176)	11439	0.50000	0.499
	58 trans-1,3-Dichloropropene	75	6.976	6.976	(1.246)	9313	0.50000	0.452
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	1210085	10.0000	9.68
	60 1,1,2-Trichloroethane	97	7.131	7.131	(1.274)	9514	0.50000	0.508
	61 Toluene	91	7.143	7.143	(1.276)	28037	0.50000	0.497
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.854)	35043	1.25000	1.21
	63 n-Octane	43	7.574	7.574	(0.877)	15848	0.50000	0.505
	64 Dibromochloromethane	129	7.671	7.671	(0.888)	14525	0.50000	0.445
	65 1,2-Dibromoethane	107	7.899	7.899	(0.914)	14648	0.50000	0.495
	66 Tetrachloroethene	166	7.979	7.979	(0.924)	16369	0.50000	0.514
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	916612	10.0000	
	68 Chlorobenzene	112	8.677	8.677	(1.004)	23064	0.50000	0.507
	69 Ethyl Benzene	91	8.928	8.928	(1.033)	34544	0.50000	0.512
	70 m&p-Xylene	91	9.073	9.073	(1.050)	53813	1.00000	1.02
	71 n-Nonane	43	9.465	9.465	(1.096)	13912	0.50000	0.510
	72 Bromoform	173	9.471	9.471	(1.096)	10681	0.50000	0.457
	73 Styrene	104	9.503	9.503	(1.100)	19327	0.50000	0.490
	74 o-Xylene	91	9.574	9.574	(1.108)	26767	0.50000	0.497
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	14184	0.50000	0.478
	76 Isopropylbenzene	105	10.153	10.153	(1.175)	37854	0.50000	0.497
	77 N-Propylbenzene	91	10.735	10.735	(1.243)	35990	0.50000	0.442

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	30251	0.50000	0.469
79	1,3,5-Trimethylbenzene	105	10.995	10.995	(1.273)	28097	0.50000	0.453
80	n-Decane	57	11.375	11.375	(2.032)	11603	0.50000	0.555
81	Tert-Butyl Benzene	119	11.490	11.490	(1.330)	30974	0.50000	0.509
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	26568	0.50000	0.488
83	1,3-Dichlorobenzene	146	11.790	11.790	(1.365)	16619	0.50000	0.420
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	37562	0.50000	0.493
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.372)	463747	10.0000	9.18
86	Benzyl Chloride	91	11.860	11.860	(1.373)	9078	0.50000	0.508
87	1,4-Dichlorobenzene	146	11.883	11.883	(1.376)	16868	0.50000	0.473(M)
88	p-Isopropyltoluene	119	11.982	11.982	(1.387)	31230	0.50000	0.425
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	26293	0.50000	0.489
90	1,2-Dichlorobenzene	146	12.275	12.275	(1.421)	14338	0.50000	0.457
91	N-Butylbenzene	91	12.458	12.458	(1.442)	20942	0.50000	0.353
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	3096	0.50000	0.404
93	1,2,4-Trichlorobenzene	180	14.043	14.043	(1.626)	2447	0.50000	0.536(Q)
94	Naphthalene	128	14.172	14.172	(1.641)	7018	0.50000	0.524
95	Hexachlorobutadiene	225	14.416	14.416	(1.669)	7964	0.50000	0.501

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06111.D
Lab Smp Id: cal3
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1396320	-1.26
67 Chlorobenzene - d	951026	570616	1331436	916612	-3.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D

Date : 02-MAR-2017 12:14

Client ID:

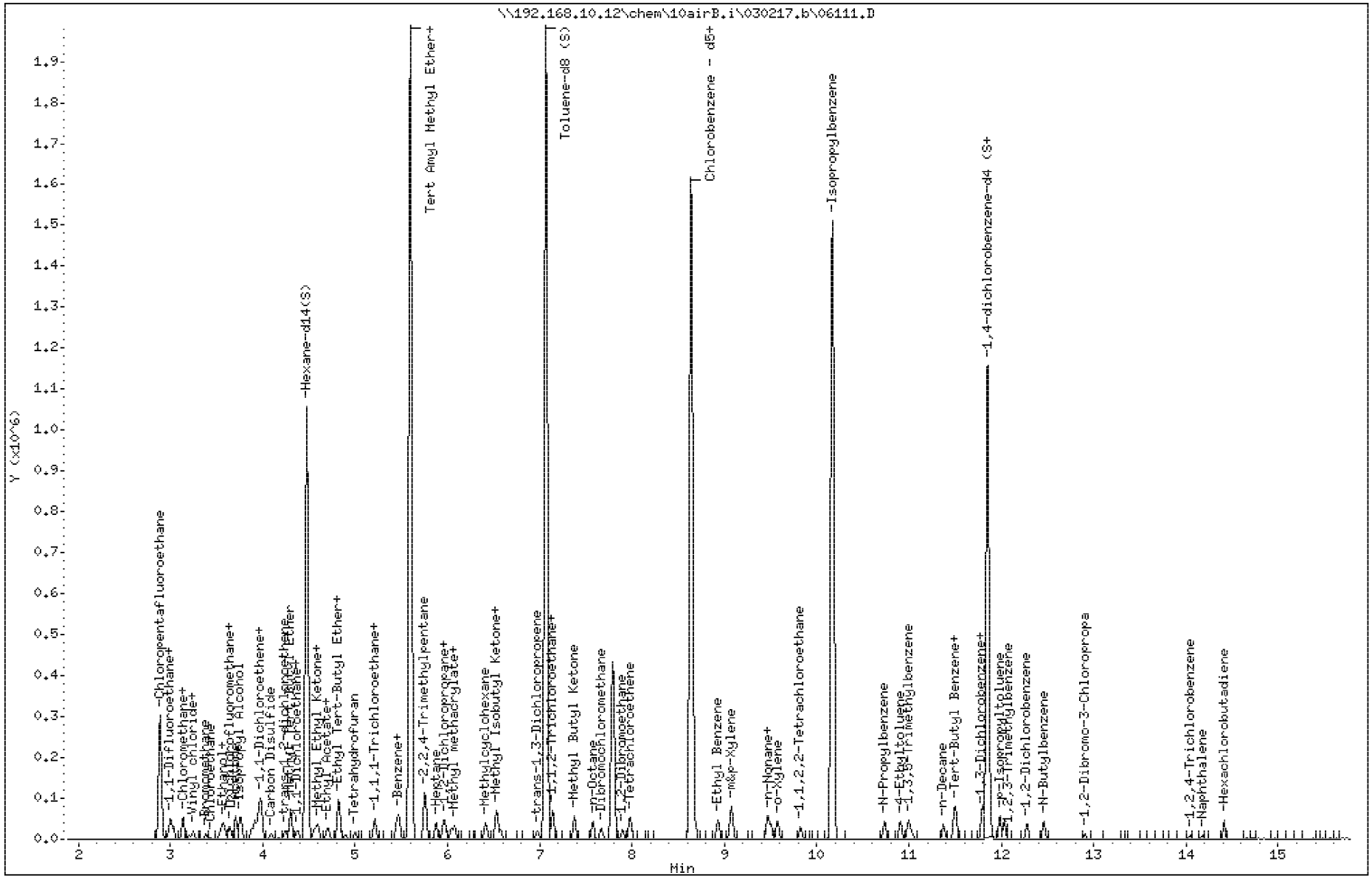
Instrument: 10airB.i

Sample Info:

Operator: MLS

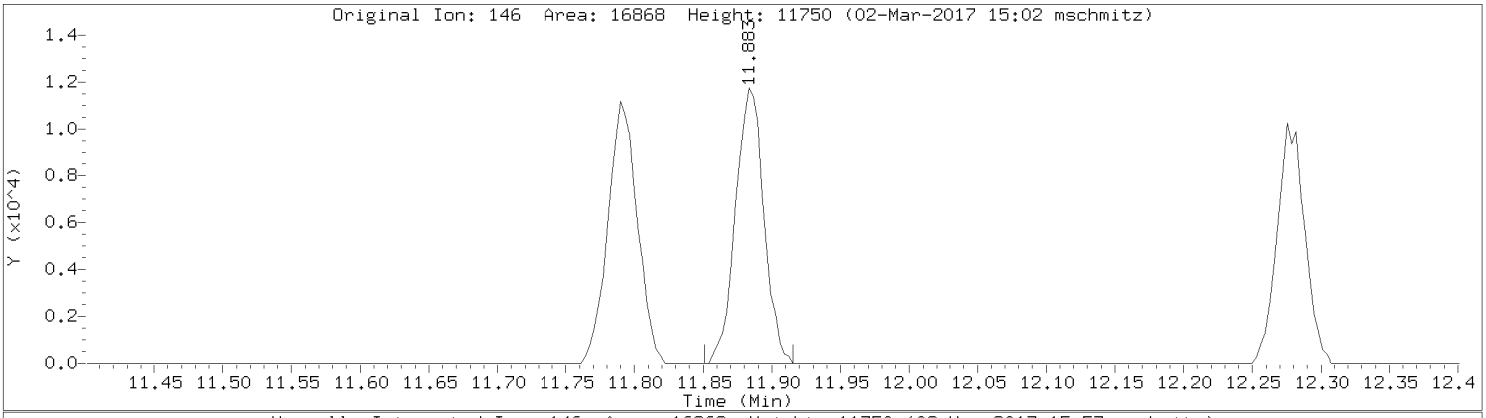
Column phase: J&W DB-5

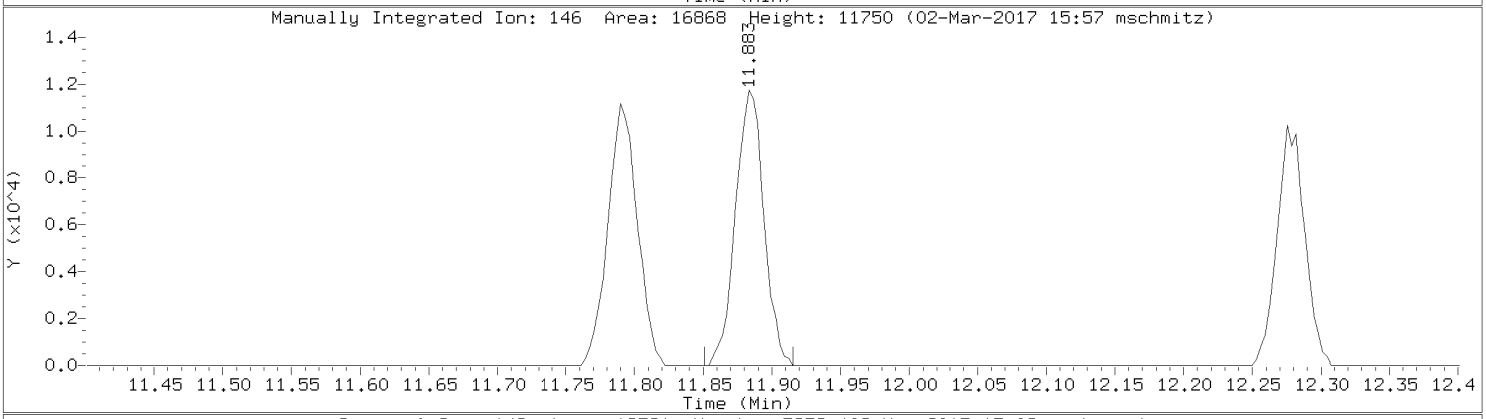
Column diameter: 0.32

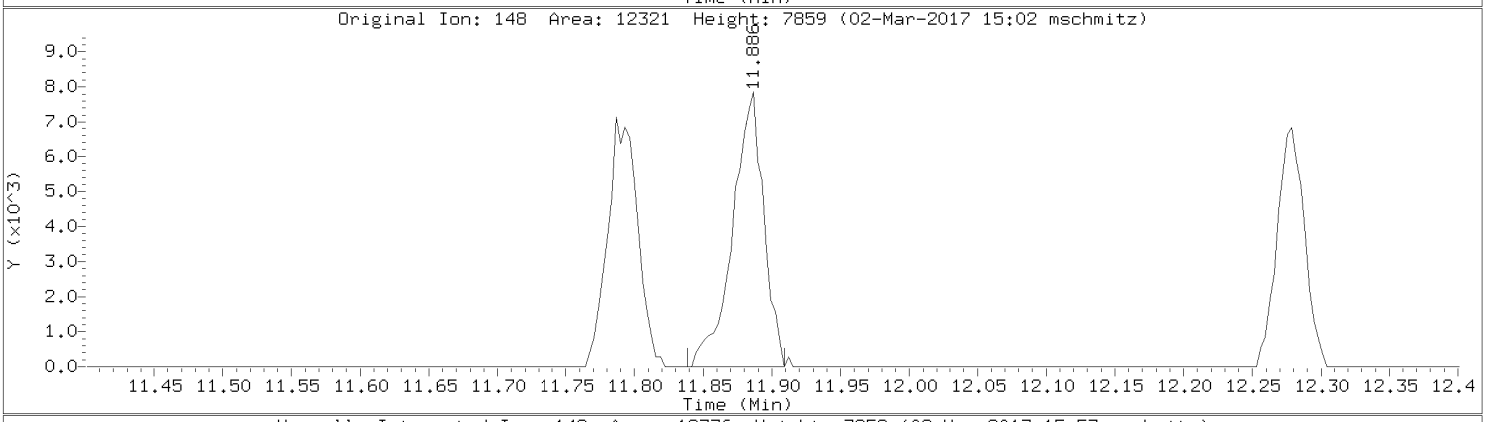


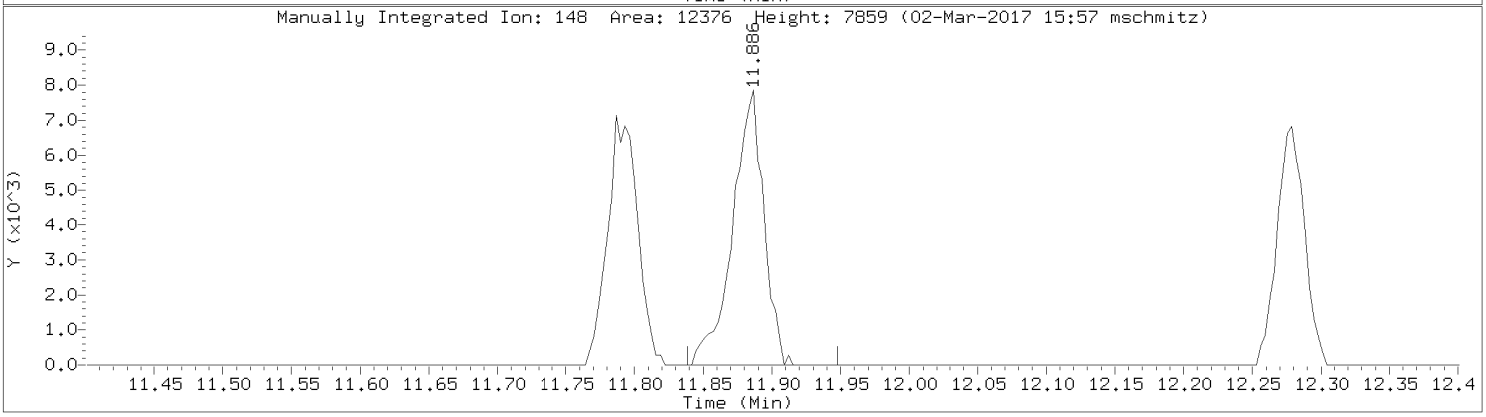
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

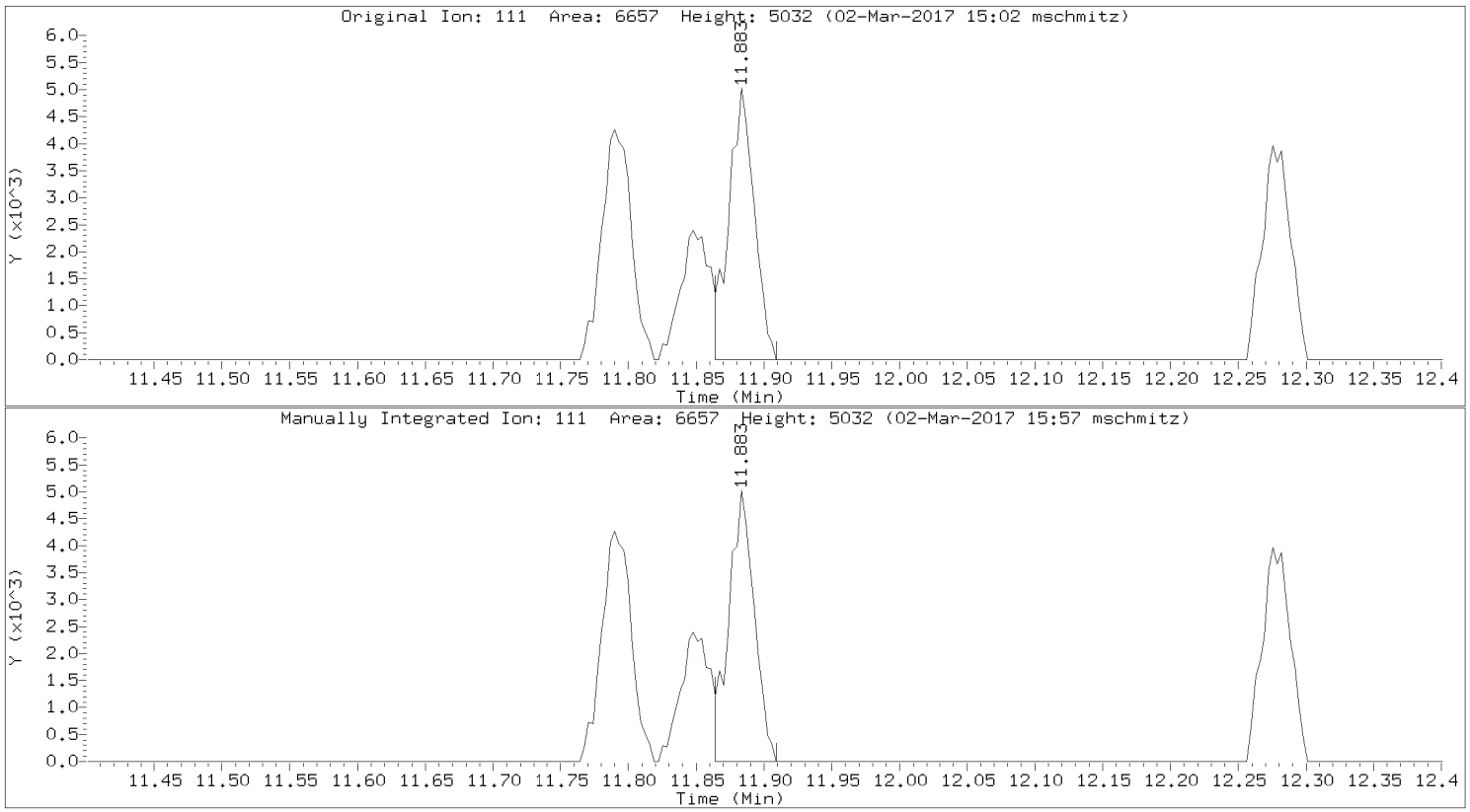






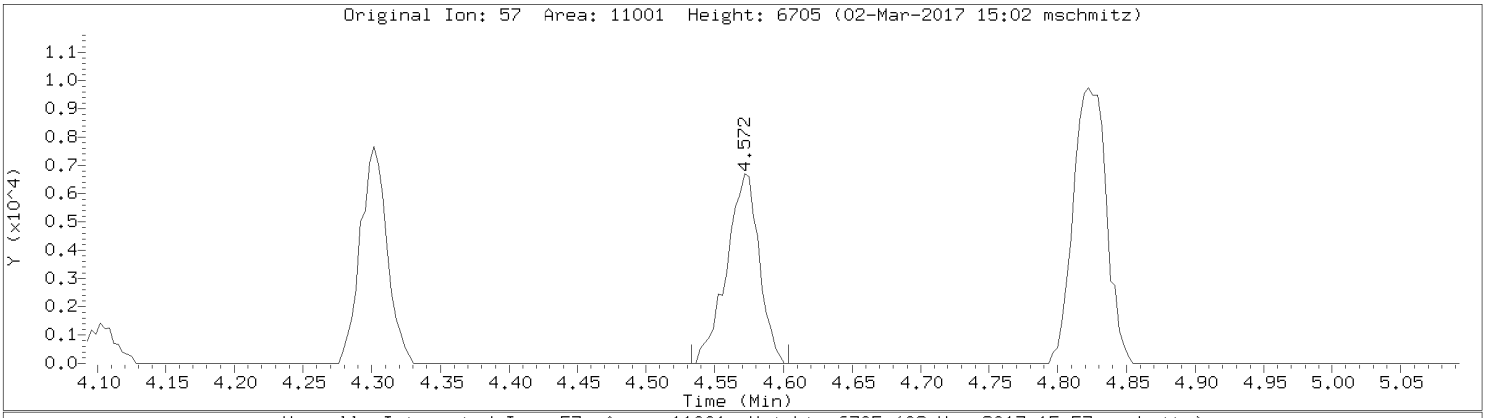


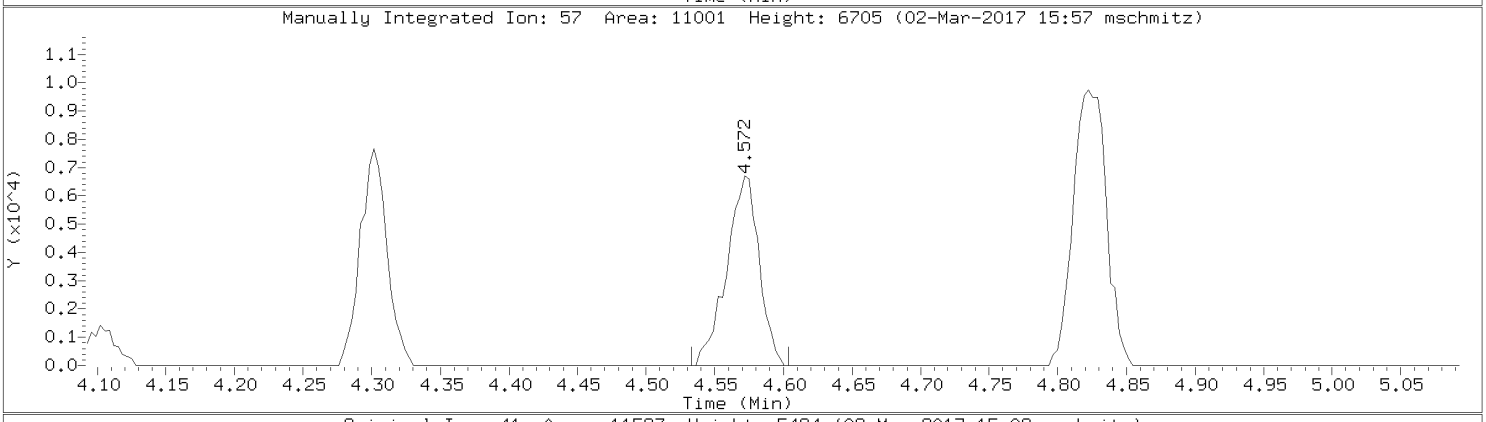
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

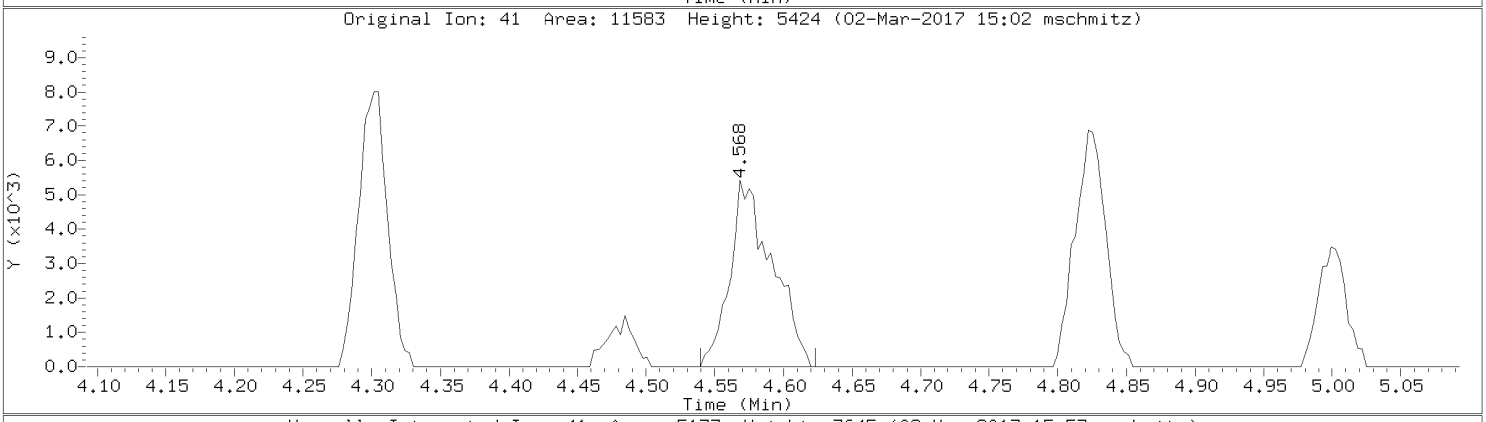


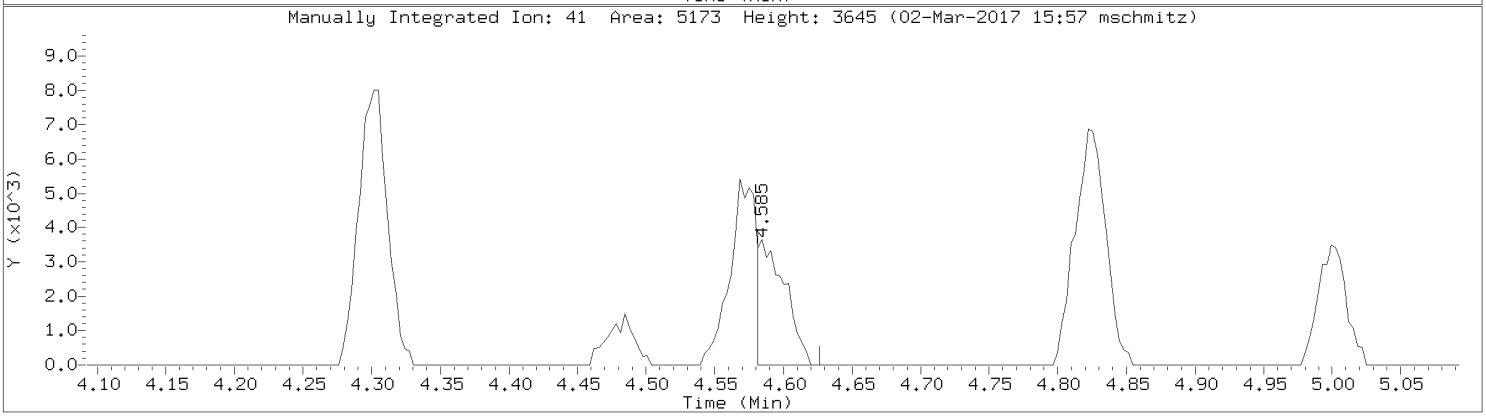
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: n-Hexane
CAS Number: 110-54-3

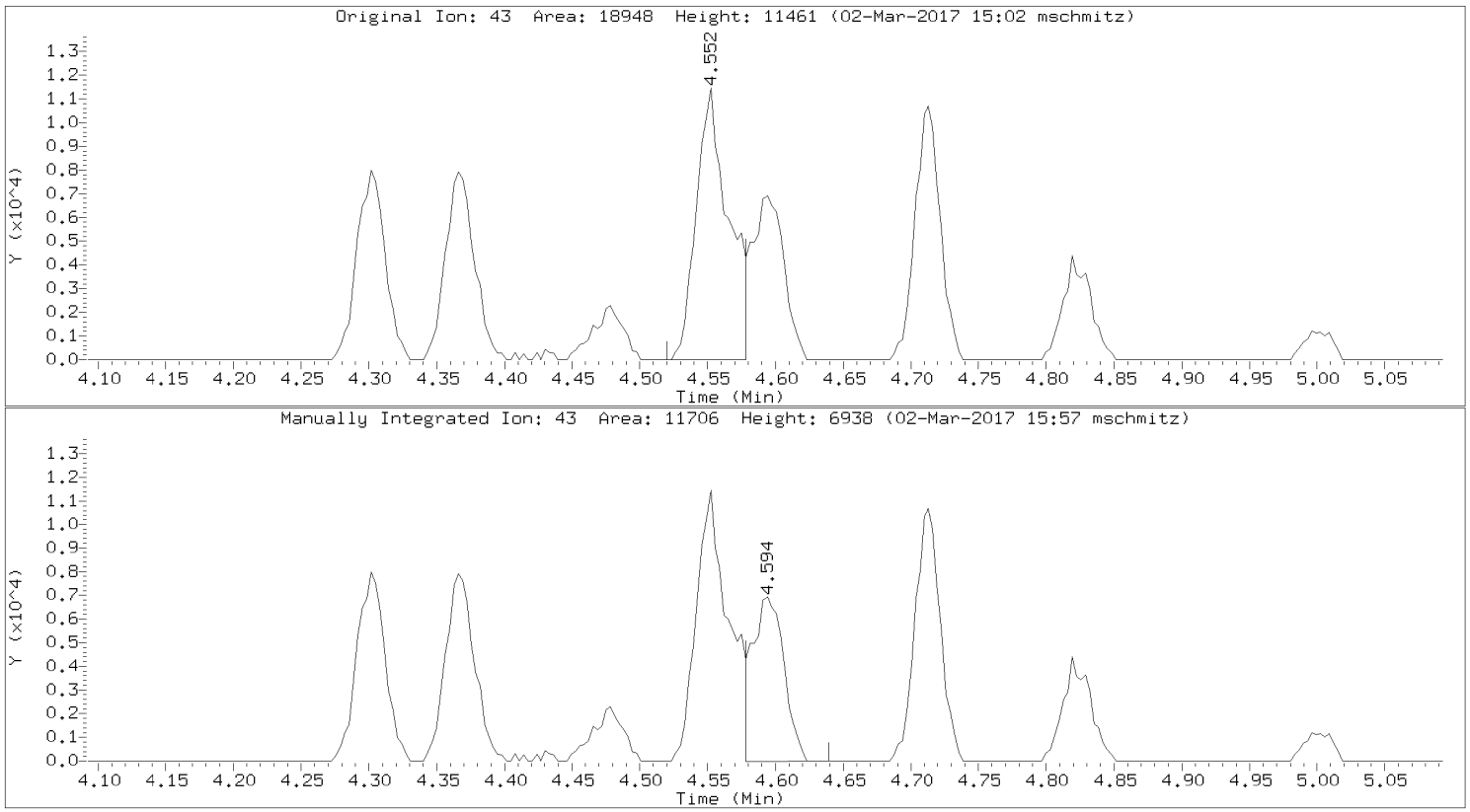






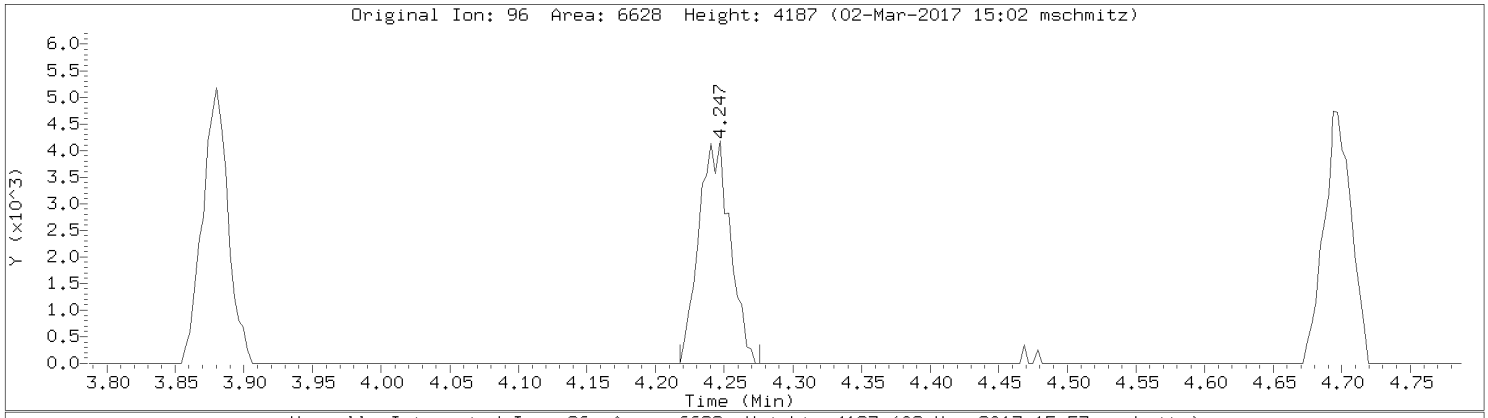


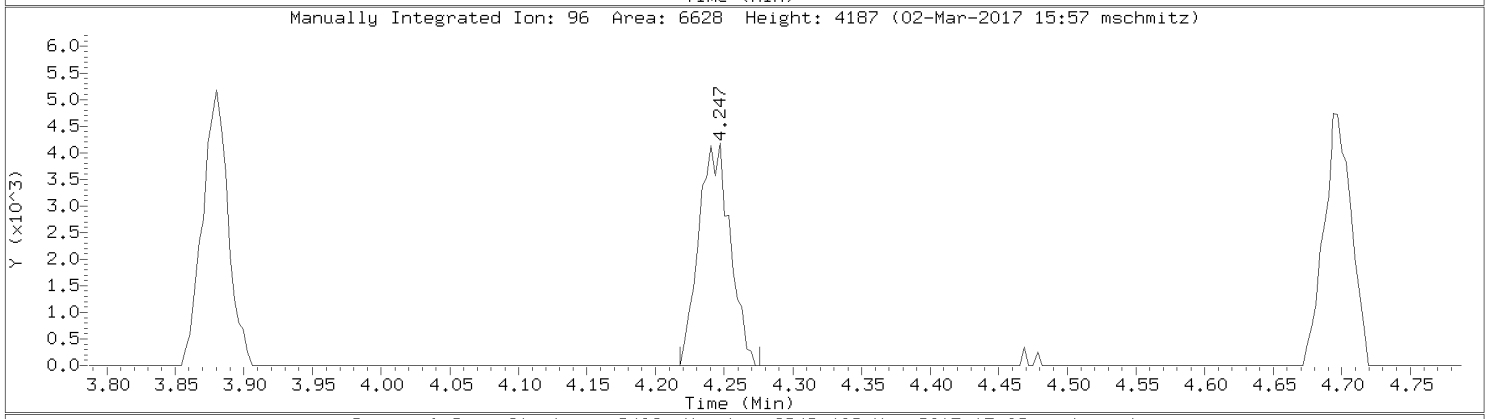
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

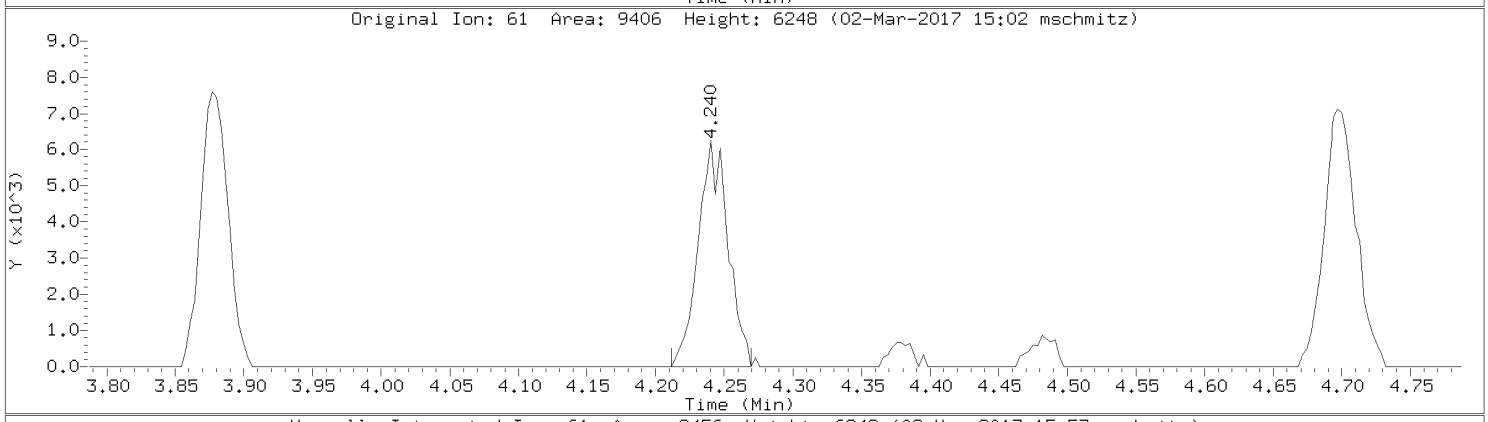


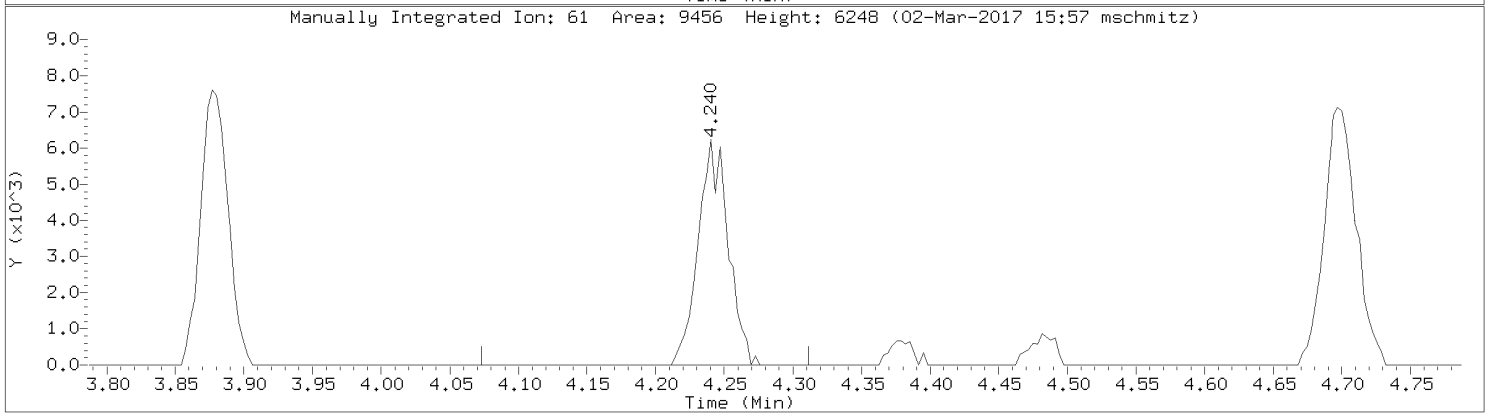
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: trans-1,2-dichloroethene
CAS Number: 156-60-5

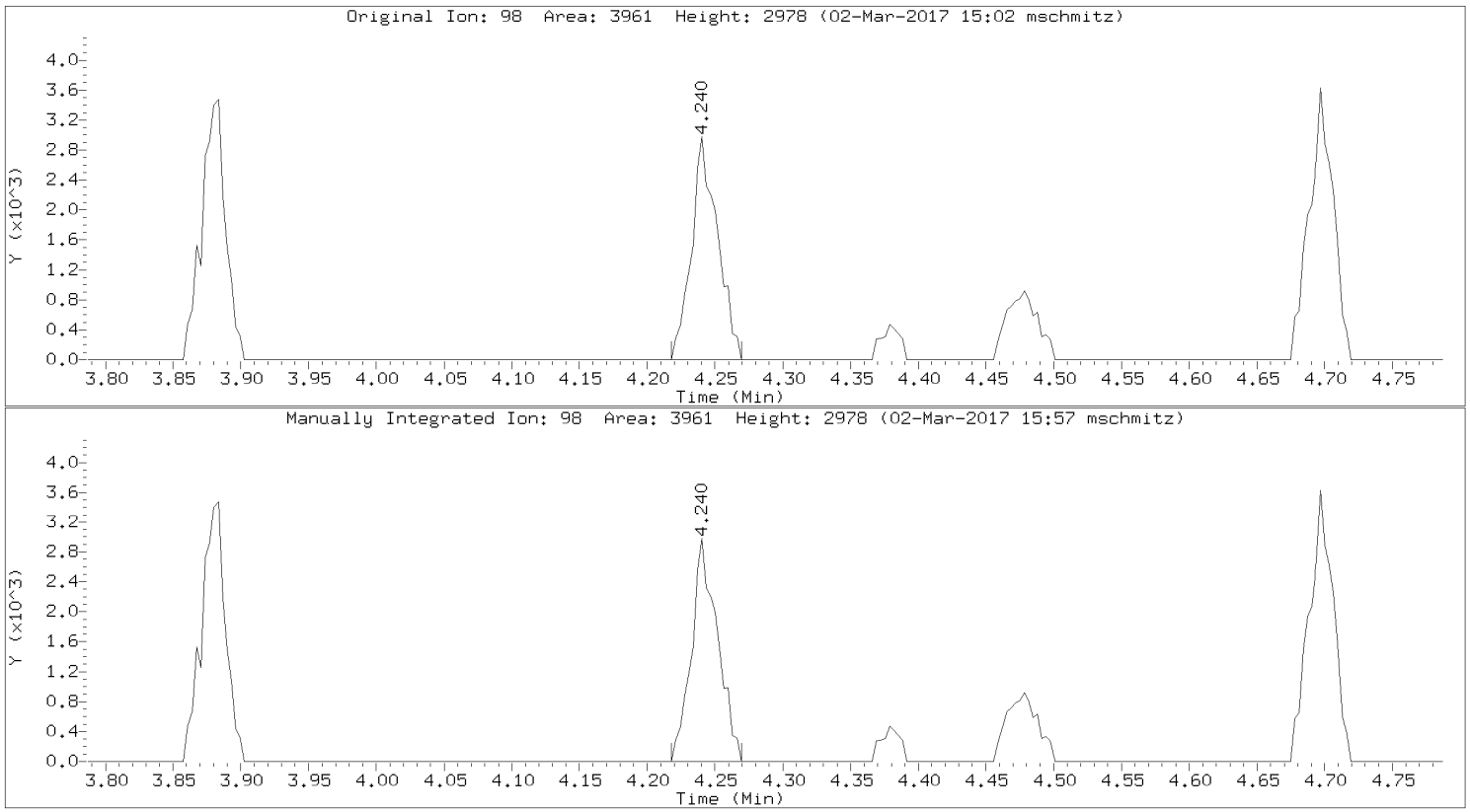






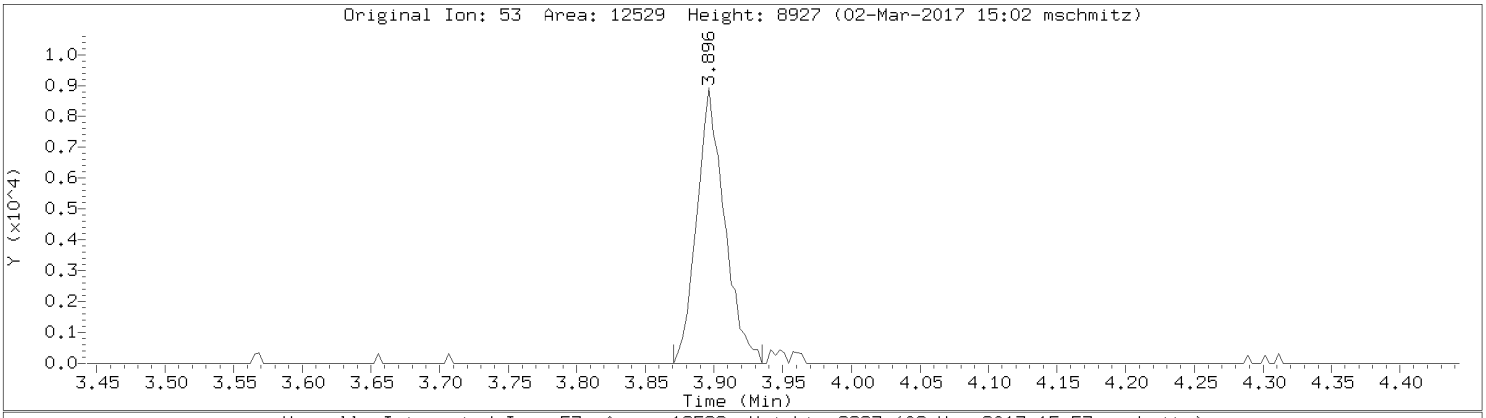


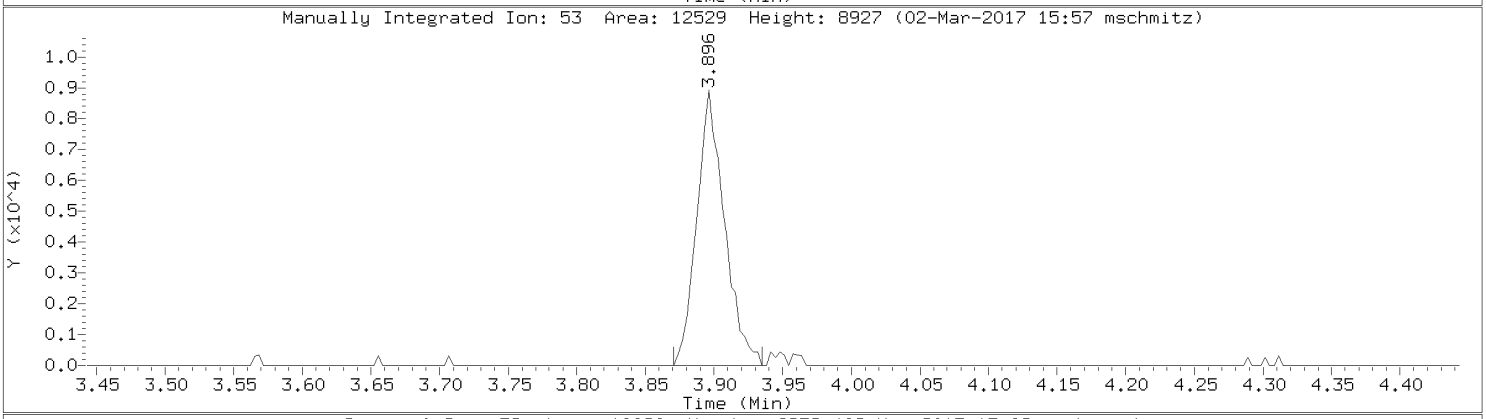
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

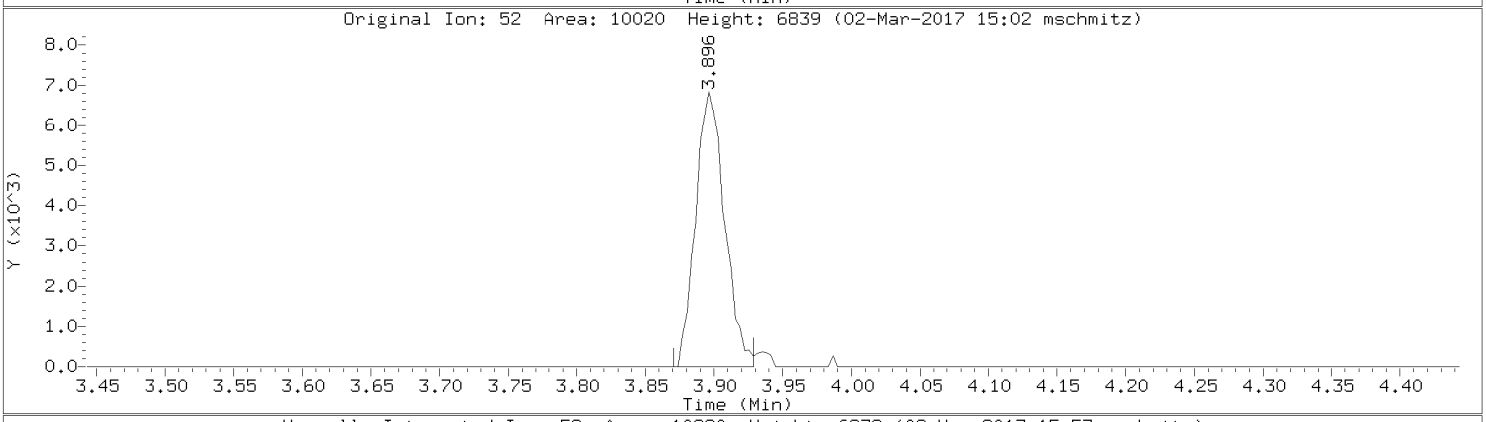


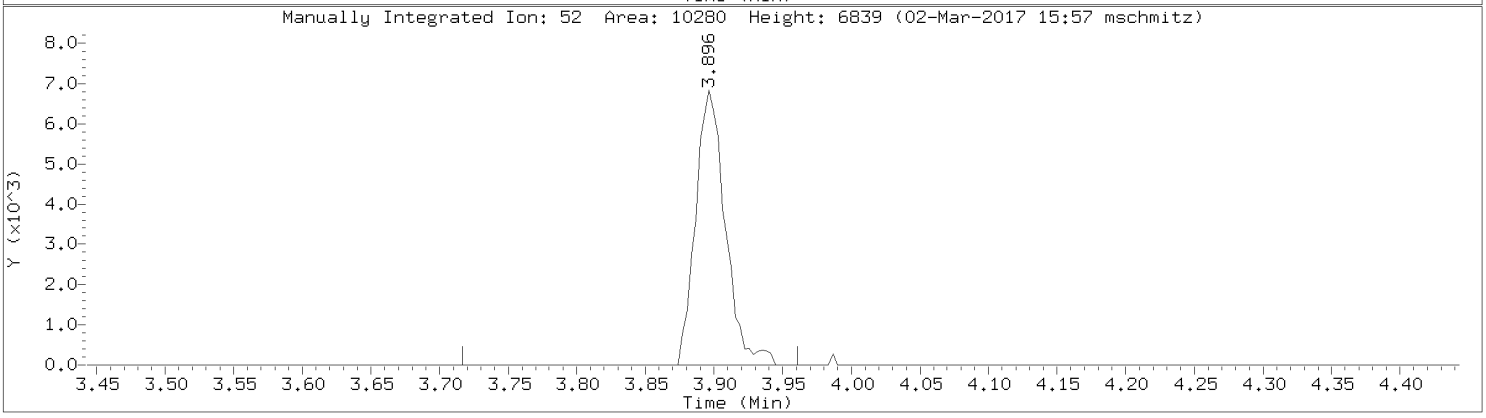
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Acrylonitrile
CAS Number: 107-13-1



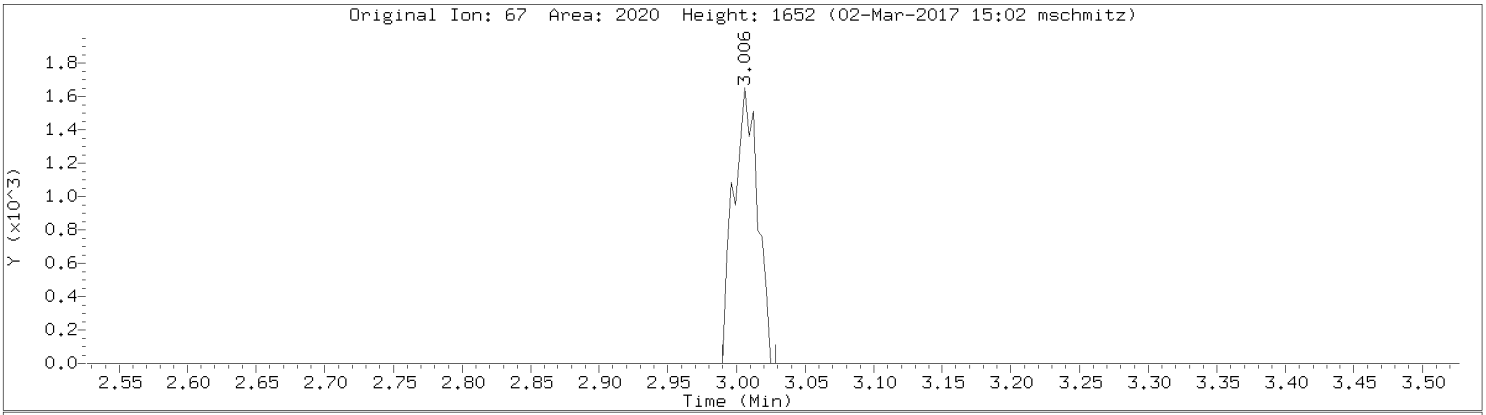


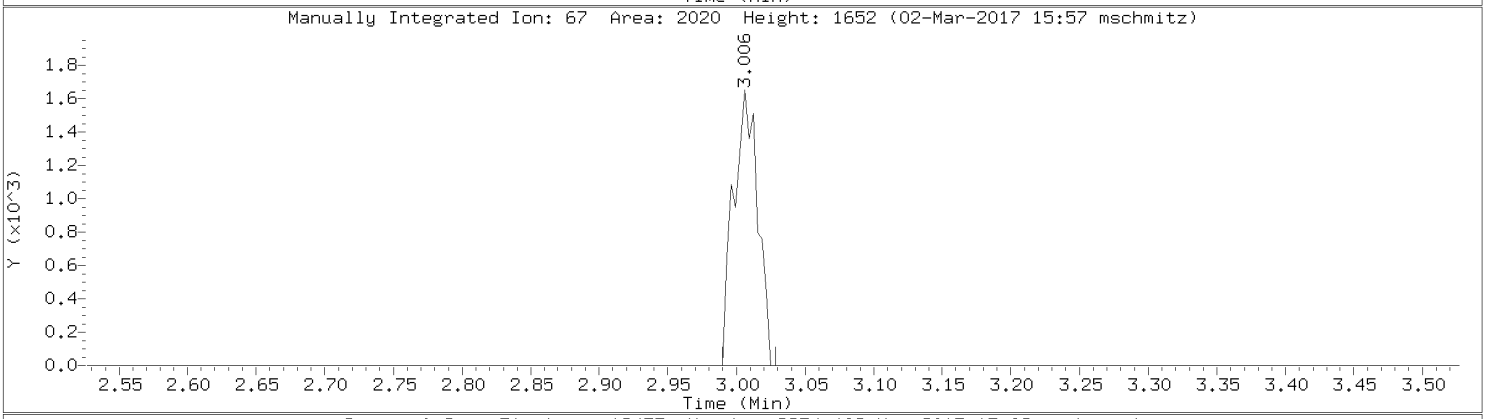


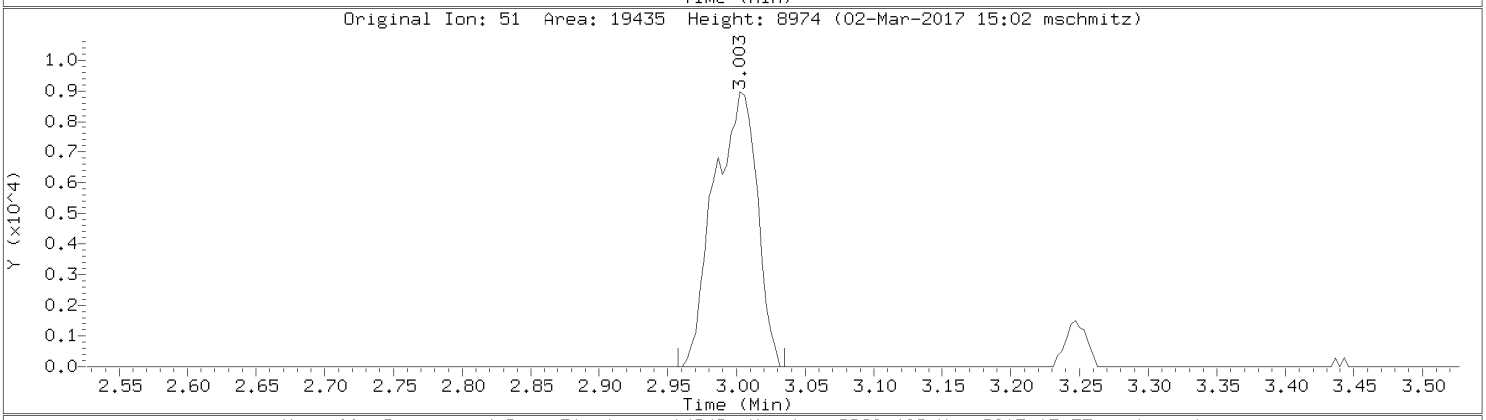


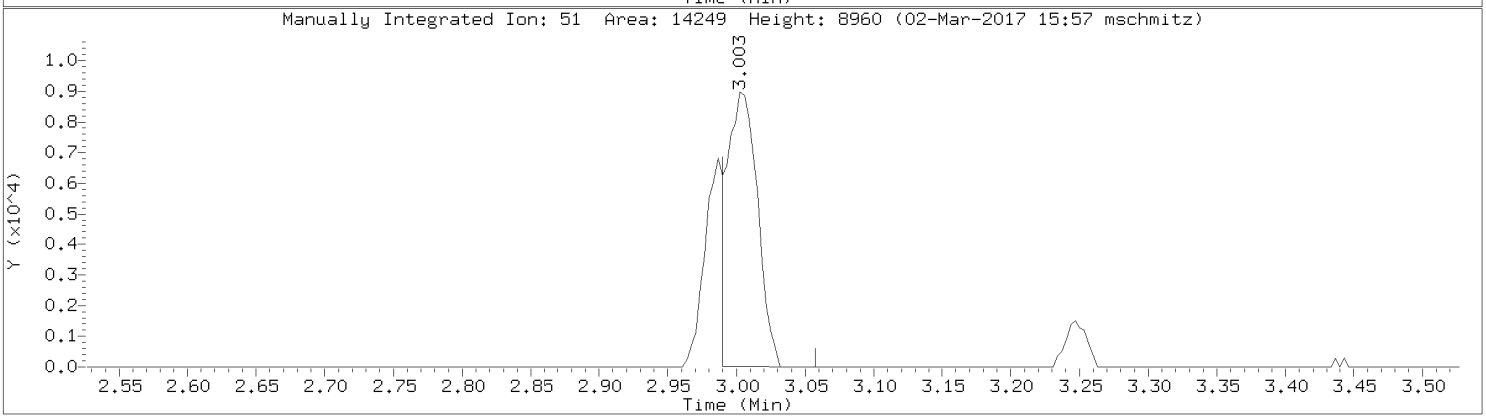
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

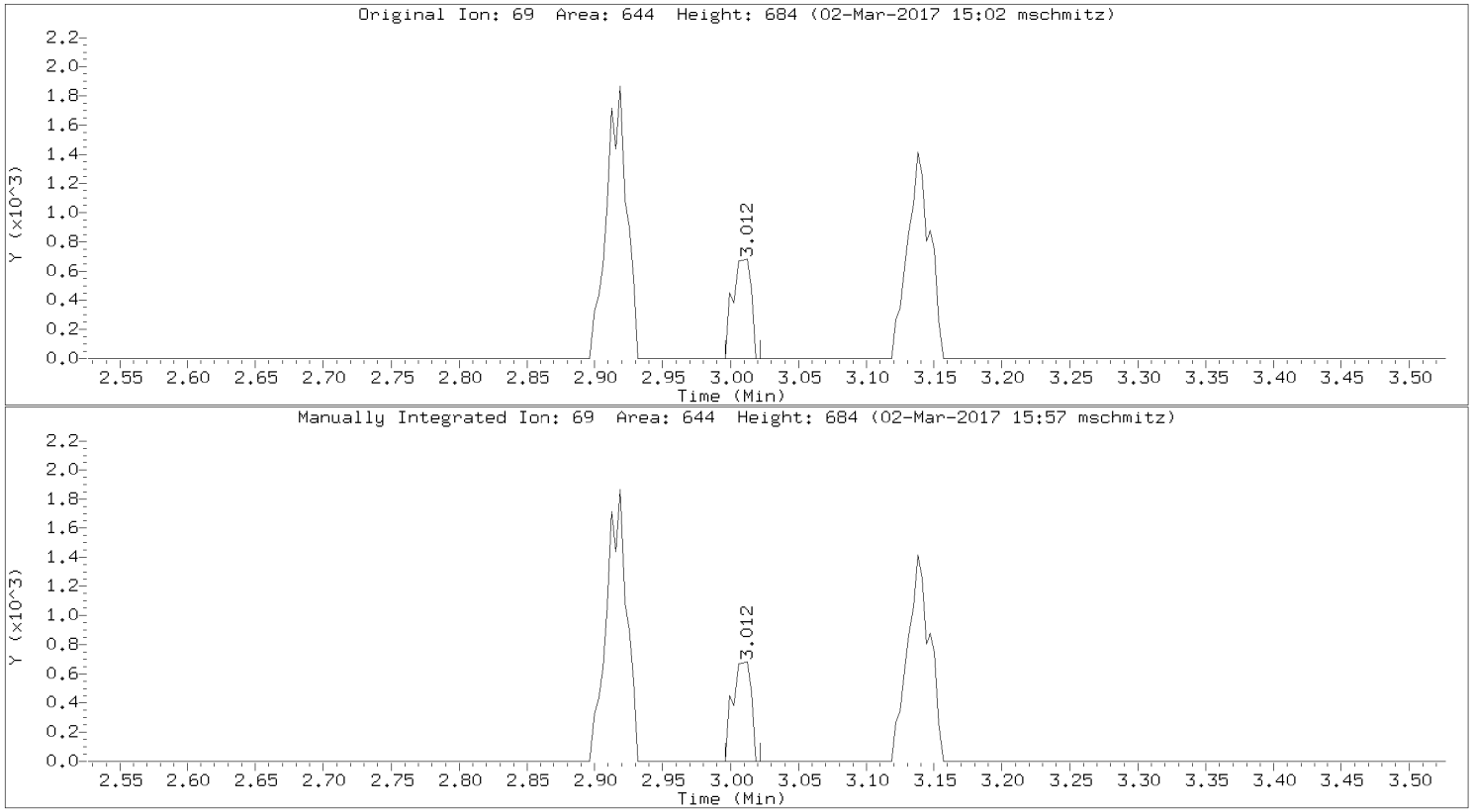






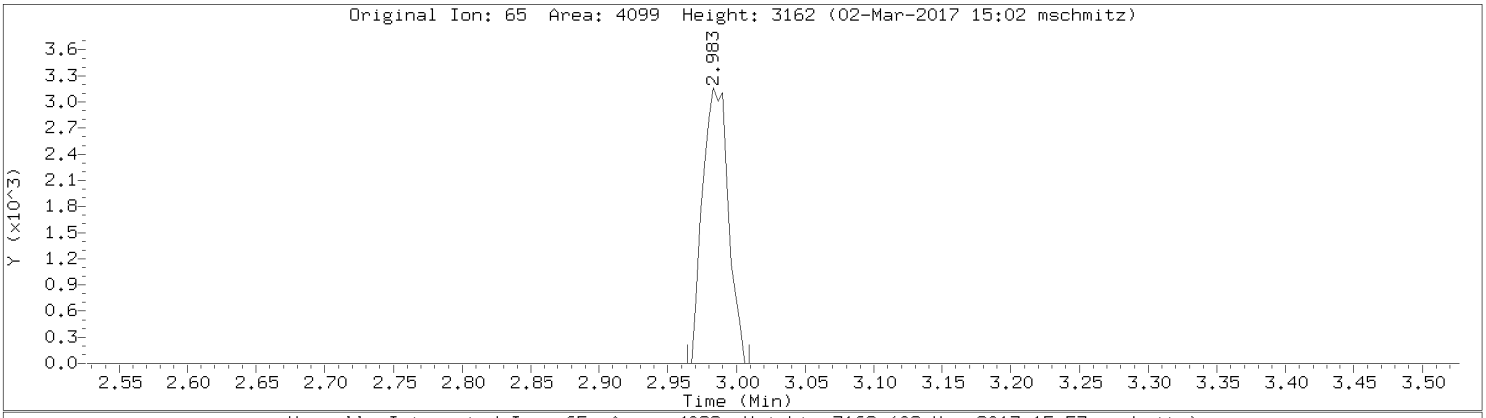


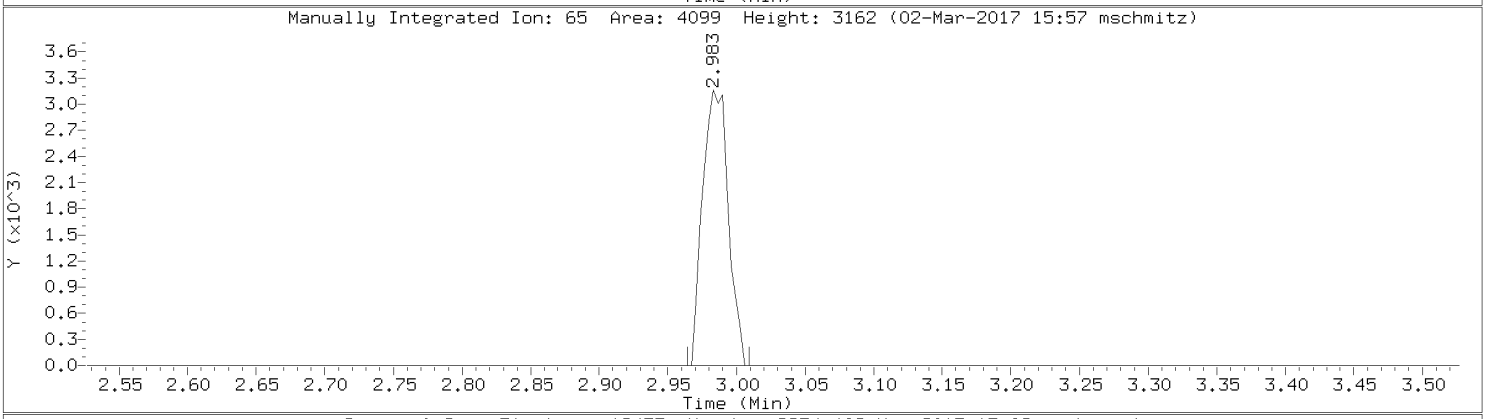
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

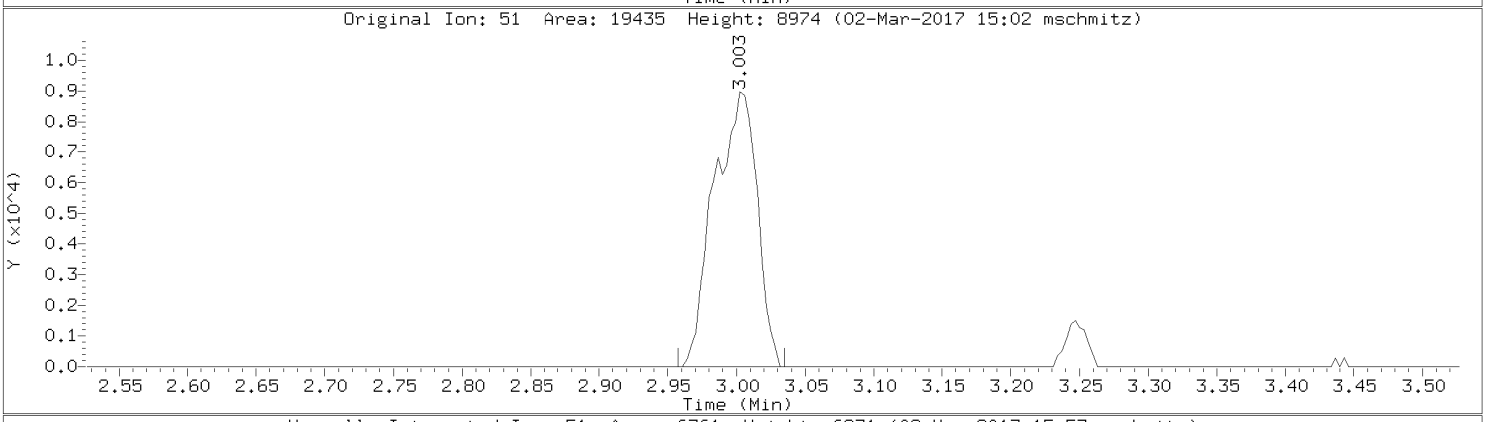


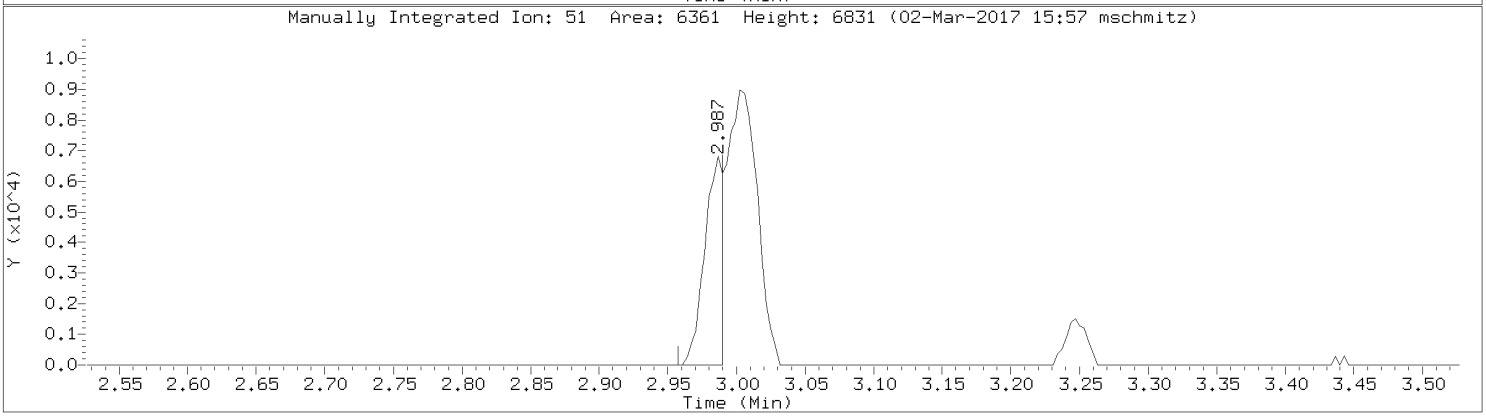
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

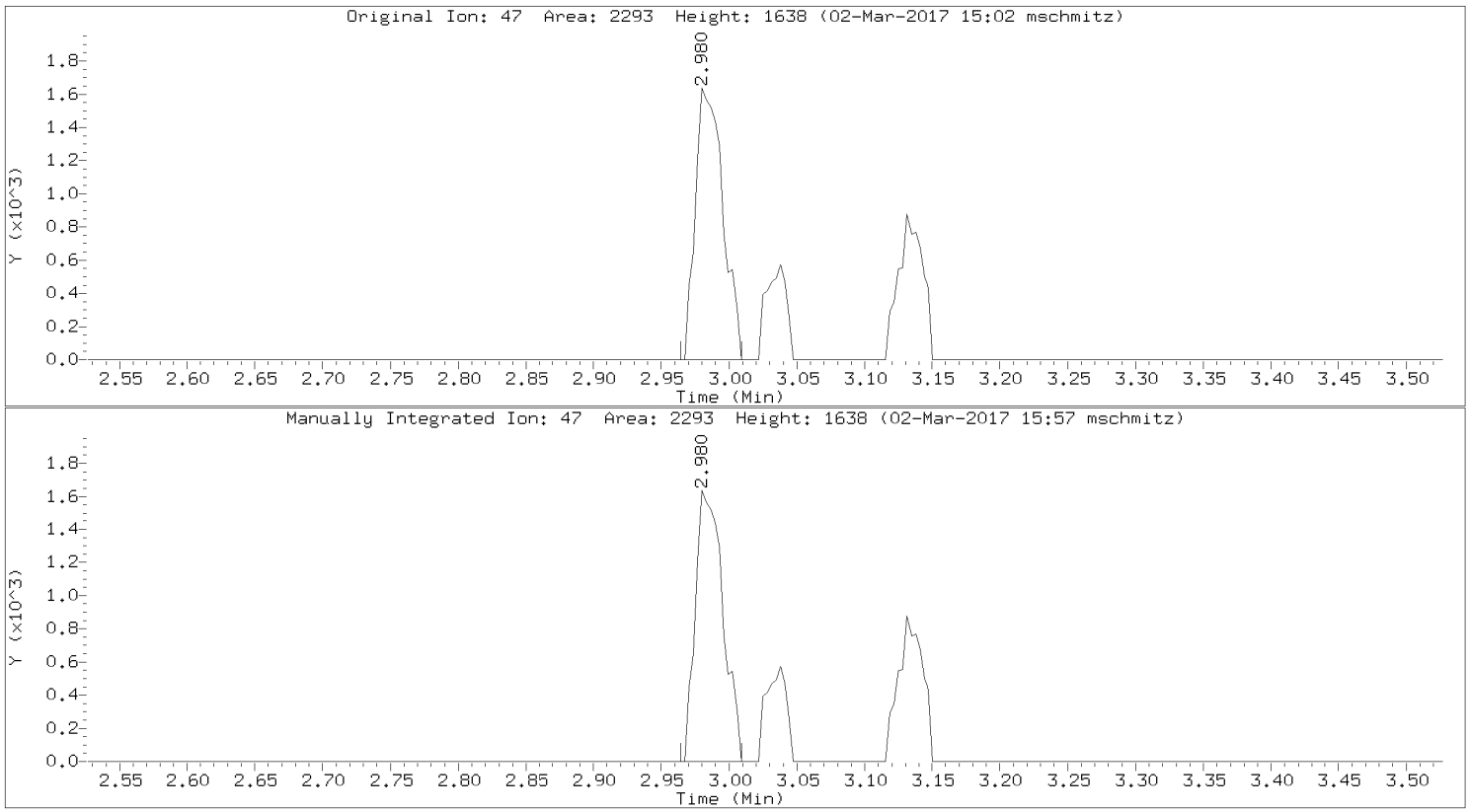








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Lab Smp Id: cal4
Inj Date : 02-MAR-2017 12:43
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:00 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 12:14 Cal File: 06111.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.909	2.909	(0.520)	5096	1.00000	0.599
2	1,1-Difluoroethane	65	2.970	2.970	(0.531)	7969	1.00000	0.952(M)
3	Chlorodifluoromethane	67	2.996	2.996	(0.535)	3964	1.00000	0.950(QM)
4	Propylene	41	2.996	2.996	(0.535)	24954	1.00000	1.84
5	Dichlorodifluoromethane	85	3.024	3.024	(0.540)	41132	1.00000	0.942
6	Chloromethane	50	3.114	3.114	(0.557)	15341	1.00000	0.935
7	Dichlorotetrafluoroethane	85	3.127	3.127	(0.559)	37987	1.00000	0.958
8	Vinyl chloride	62	3.198	3.198	(0.571)	13137	1.00000	0.927
9	1,3-Butadiene	54	3.233	3.233	(0.578)	10271	1.00000	0.995
10	Bromomethane	94	3.375	3.375	(0.603)	12990	1.00000	0.991
11	Chloroethane	64	3.426	3.426	(0.612)	6244	1.00000	0.958
12	Ethanol	45	3.536	3.536	(0.632)	24172	5.00000	4.61
13	Vinyl Bromide	106	3.542	3.542	(0.633)	12928	1.00000	0.952
14	Isopentane	43	3.561	3.561	(0.636)	19900	1.00000	1.26
15	Freon 123	83	3.581	3.581	(0.640)	16103	1.00000	0.994(QM)
16	Trichlorofluoromethane	101	3.635	3.635	(0.650)	37831	1.00000	0.966
17	Acrolein	56	3.661	3.661	(0.654)	9510	2.50000	2.00
18	Acetone	43	3.703	3.703	(0.662)	109193	5.00000	4.82
19	Isopropyl Alcohol	45	3.754	3.754	(0.671)	111997	5.00000	4.85
20	1,1-Dichloroethene	61	3.877	3.877	(0.693)	22216	1.00000	0.976
21	Acrylonitrile	53	3.902	3.902	(0.697)	24858	2.50000	2.37
22	Freon 113	101	3.922	3.922	(0.701)	30017	1.00000	1.02
23	Methyl Acetate	43	3.941	3.941	(0.704)	33807	1.00000	0.980

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.947	3.947	(0.705)	74711	2.50000	2.52(Q)
	25 Methylene chloride	49	3.973	3.973	(0.710)	78356	5.00000	4.90
	26 Allyl Chloride	76	3.992	3.992	(0.713)	11220	2.50000	2.16(Q)
	27 Carbon Disulfide	76	4.089	4.089	(0.731)	29419	1.00000	0.977
	28 trans-1,2-dichloroethene	96	4.246	4.246	(0.759)	12940	1.00000	1.01
	29 Methyl Tert Butyl Ether	73	4.298	4.298	(0.768)	91617	2.50000	2.52
	30 Vinyl Acetate	43	4.368	4.368	(0.781)	24341	1.00000	0.812
	31 1,1-Dichloroethane	63	4.385	4.385	(0.783)	24116	1.00000	0.969
$	32 Hexane-d14(S)	66	4.475	4.475	(0.799)	448062	10.0000	9.86
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.813)	6401	1.00000	1.01(Q)
	34 n-Hexane	57	4.571	4.571	(0.817)	22576	1.00000	0.991(QM)
	35 Di-isopropyl Ether	45	4.594	4.594	(0.821)	44999	1.00000	1.02
	36 Ethyl Acetate	43	4.712	4.712	(0.842)	28768	1.00000	0.982
	37 cis-1,2-Dichloroethene	96	4.700	4.700	(0.840)	14577	1.00000	1.02
	38 Ethyl Tert-Butyl Ether	59	4.822	4.822	(0.862)	126696	2.50000	2.74
	39 Chloroform	83	4.815	4.815	(0.860)	31780	1.00000	1.07
	40 Tetrahydrofuran	42	4.999	4.999	(0.893)	15752	1.00000	0.996
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	34753	1.00000	0.998
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	25561	1.00000	0.968
	43 Benzene	78	5.452	5.452	(0.974)	44654	1.00000	0.970
	44 Carbon tetrachloride	117	5.468	5.468	(0.977)	33323	1.00000	0.958
	45 Cyclohexane	56	5.478	5.478	(0.979)	23074	1.00000	1.00
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(1.001)	56548	1.00000	0.984
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1428064	10.0000	
	48 2,2,4-Trimethylpentane	57	5.757	5.757	(1.029)	182858	2.50000	2.56
	49 Heptane	43	5.876	5.876	(1.050)	25546	1.00000	0.993
	50 1,2-Dichloropropane	63	5.957	5.957	(1.064)	16664	1.00000	0.999
	51 Trichloroethene	130	5.973	5.973	(1.067)	24010	1.00000	1.00
	52 Methyl methacrylate	69	6.044	6.044	(1.080)	14752	1.00000	0.945
	53 1,4-Dioxane	88	6.079	6.079	(1.086)	9882	1.00000	0.918
	54 Bromodichloromethane	83	6.076	6.076	(1.086)	32727	1.00000	0.963
	55 Methylcyclohexane	98	6.420	6.420	(1.147)	12229	1.00000	0.962
	56 Methyl Isobutyl Ketone	43	6.532	6.532	(1.167)	87436	2.50000	2.49
	57 cis-1,3-Dichloropropene	75	6.577	6.577	(1.175)	23875	1.00000	0.920
	58 trans-1,3-Dichloropropene	75	6.976	6.976	(1.246)	20281	1.00000	0.865
$	59 Toluene-d8 (S)	98	7.069	7.069	(1.263)	1242398	10.0000	9.72
	60 1,1,2-Trichloroethane	97	7.134	7.134	(1.275)	18202	1.00000	0.950
	61 Toluene	91	7.146	7.146	(1.277)	56798	1.00000	0.985
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.854)	73136	2.50000	2.46
	63 n-Octane	43	7.577	7.577	(0.877)	33052	1.00000	1.03
	64 Dibromochloromethane	129	7.674	7.674	(0.888)	31027	1.00000	0.877
	65 1,2-Dibromoethane	107	7.902	7.902	(0.915)	30387	1.00000	1.00
	66 Tetrachloroethene	166	7.982	7.982	(0.924)	32617	1.00000	0.998
*	67 Chlorobenzene - d5	117	8.638	8.638	(1.000)	941467	10.0000	
	68 Chlorobenzene	112	8.683	8.683	(1.005)	45167	1.00000	0.967
	69 Ethyl Benzene	91	8.931	8.931	(1.034)	71332	1.00000	1.03
	70 m&p-Xylene	91	9.076	9.076	(1.051)	110623	2.00000	2.04
	71 n-Nonane	43	9.465	9.465	(1.096)	30417	1.00000	1.09
	72 Bromoform	173	9.478	9.478	(1.097)	23365	1.00000	0.782
	73 Styrene	104	9.500	9.500	(1.100)	41273	1.00000	0.936
	74 o-Xylene	91	9.574	9.574	(1.108)	56685	1.00000	1.03
	75 1,1,2,2-Tetrachloroethane	83	9.825	9.825	(1.137)	29718	1.00000	0.975
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	75799	1.00000	0.969
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	77311	1.00000	0.897

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.908	10.908	(1.263)	69266	1.00000	0.924
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.273)	61066	1.00000	0.937
80	n-Decane	57	11.375	11.375	(2.032)	27313	1.00000	0.968
81	Tert-Butyl Benzene	119	11.494	11.494	(1.331)	64150	1.00000	1.03
82	1,2,4-Trimethylbenzene	105	11.506	11.506	(1.332)	58777	1.00000	1.05
83	1,3-Dichlorobenzene	146	11.789	11.789	(1.365)	35362	1.00000	0.881
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	82203	1.00000	1.05
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.850	(1.372)	501607	10.0000	9.67
86	Benzyl Chloride	91	11.860	11.860	(1.373)	22499	1.00000	0.809
87	1,4-Dichlorobenzene	146	11.886	11.886	(1.376)	36268	1.00000	0.990
88	p-Isopropyltoluene	119	11.982	11.982	(1.387)	67948	1.00000	0.905
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	56080	1.00000	1.02
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	32463	1.00000	0.900
91	N-Butylbenzene	91	12.458	12.458	(1.442)	47311	1.00000	0.803
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	7071	1.00000	0.658
93	1,2,4-Trichlorobenzene	180	14.040	14.040	(1.625)	7389	1.00000	0.843
94	Naphthalene	128	14.175	14.175	(1.641)	19022	1.00000	0.824
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	17650	1.00000	1.08

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06112.D
Lab Smp Id: cal4
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

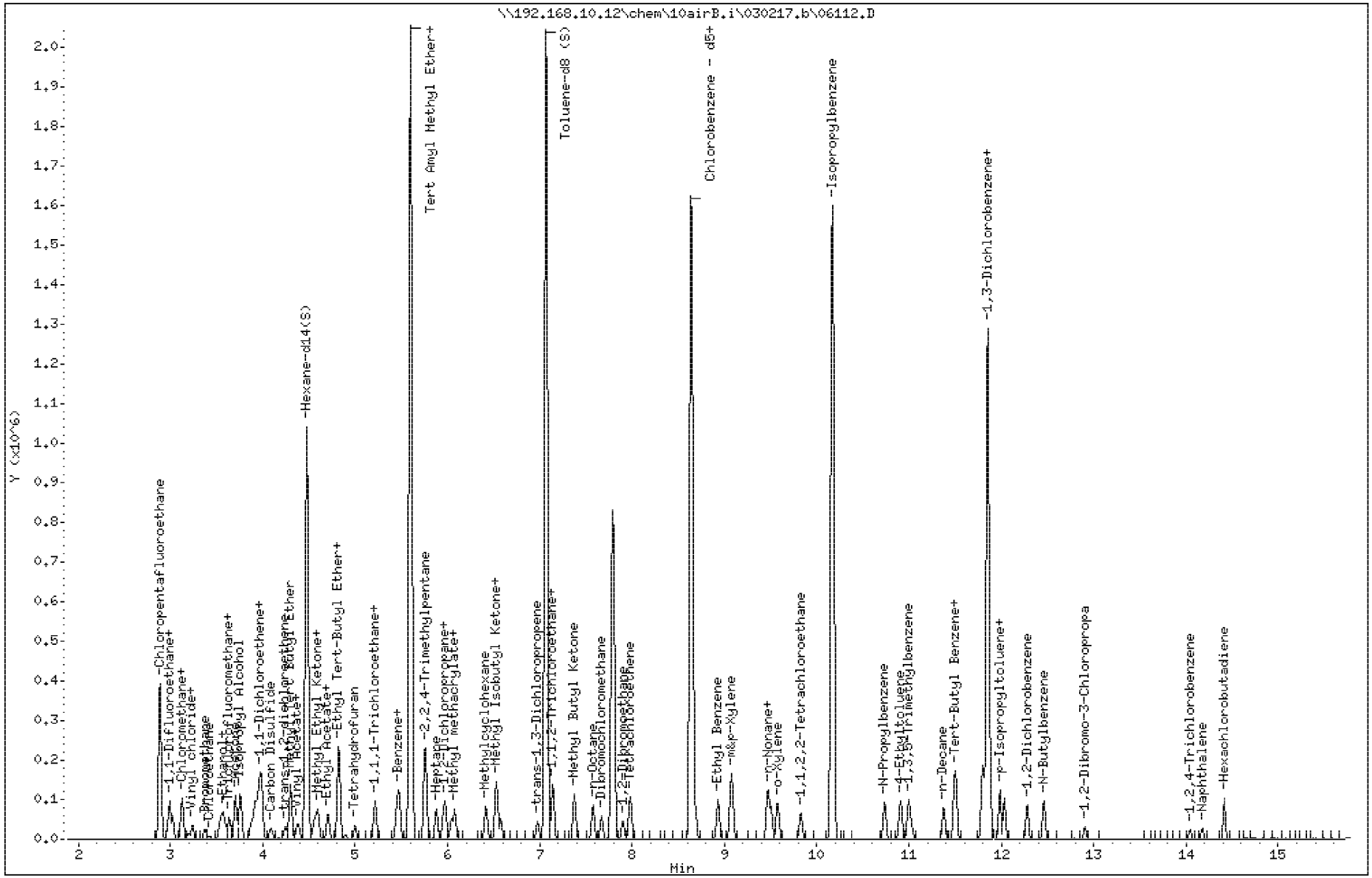
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1428064	0.99
67 Chlorobenzene - d	951026	570616	1331436	941467	-1.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

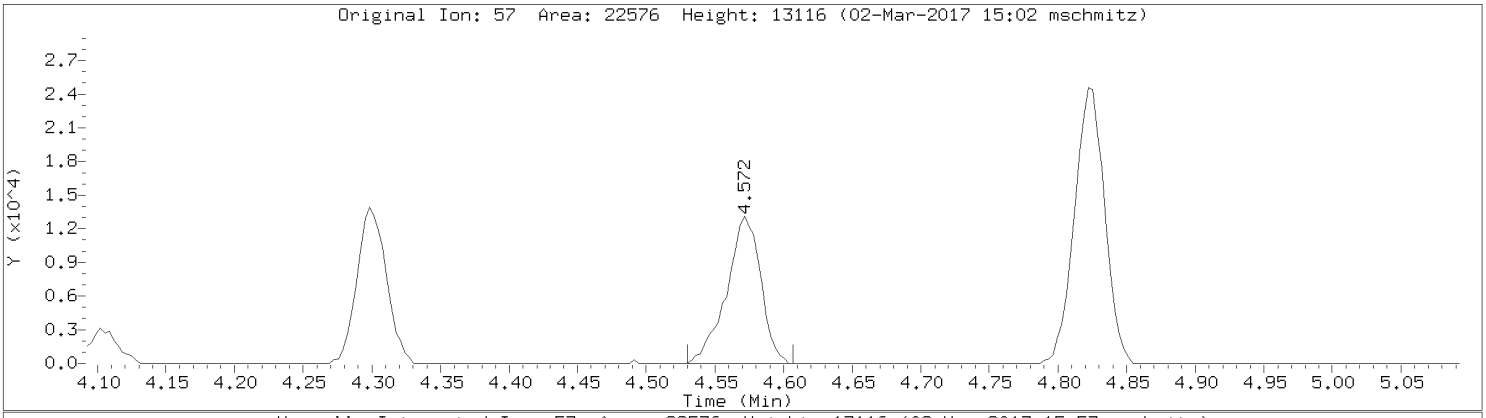
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Date : 02-MAR-2017 12:43
Client ID:
Sample Info:

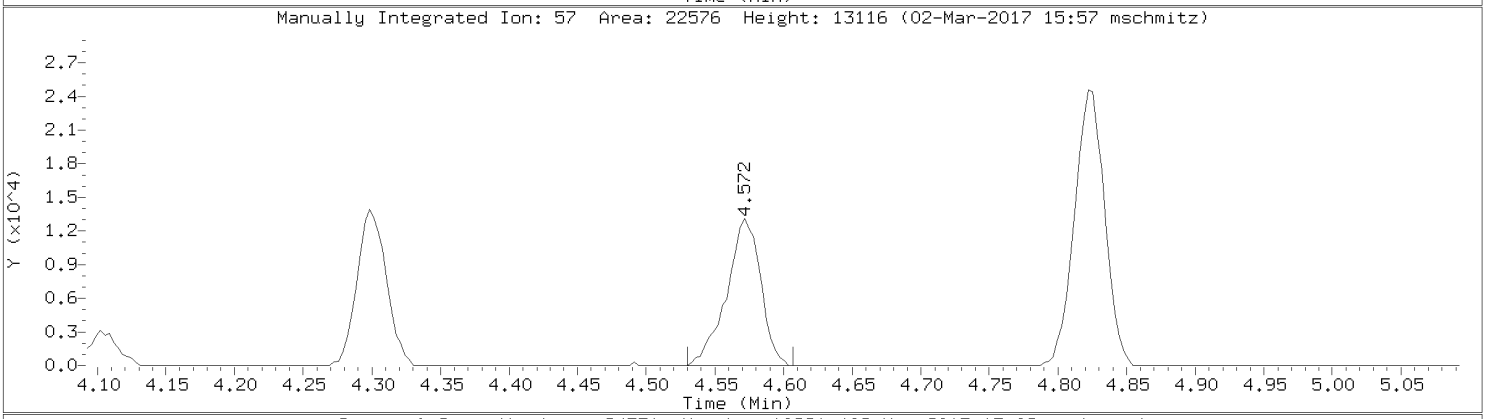
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

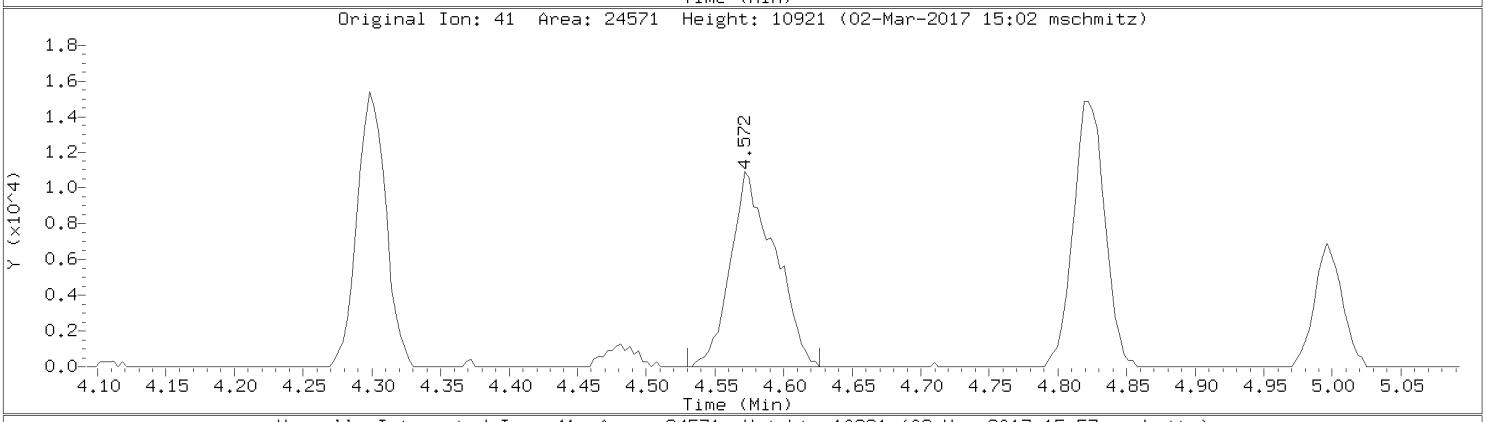


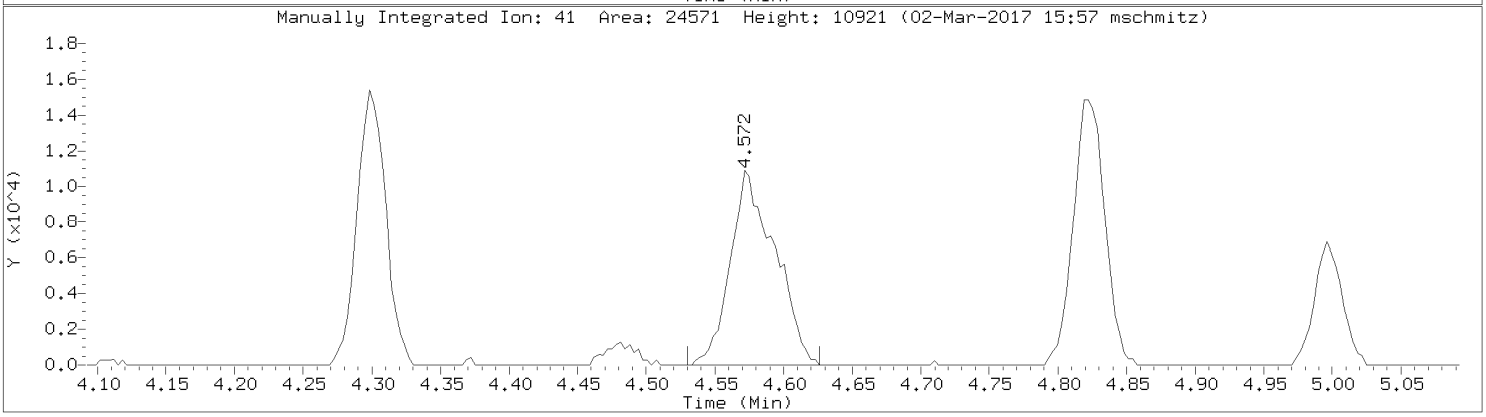
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: n-Hexane
CAS Number: 110-54-3

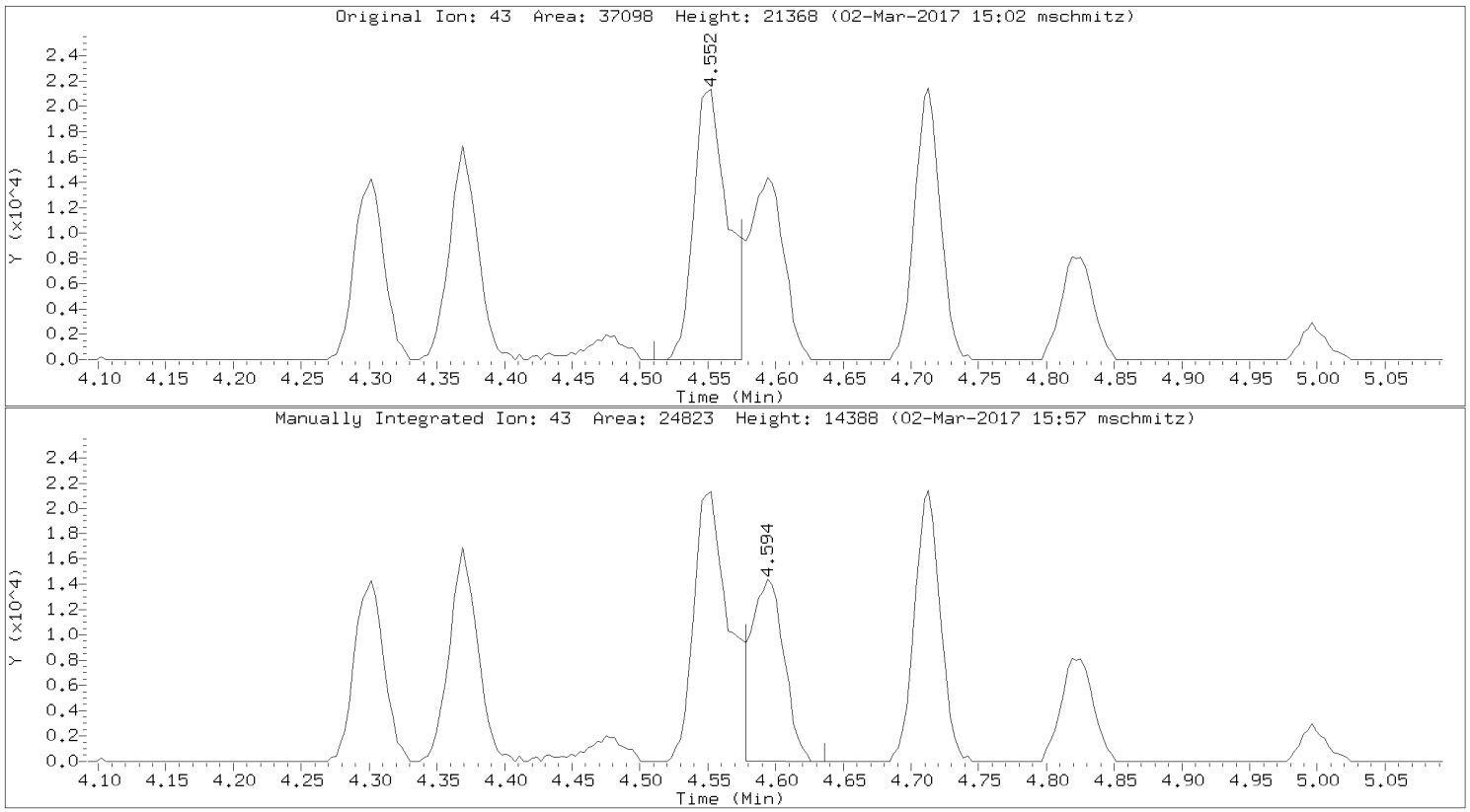






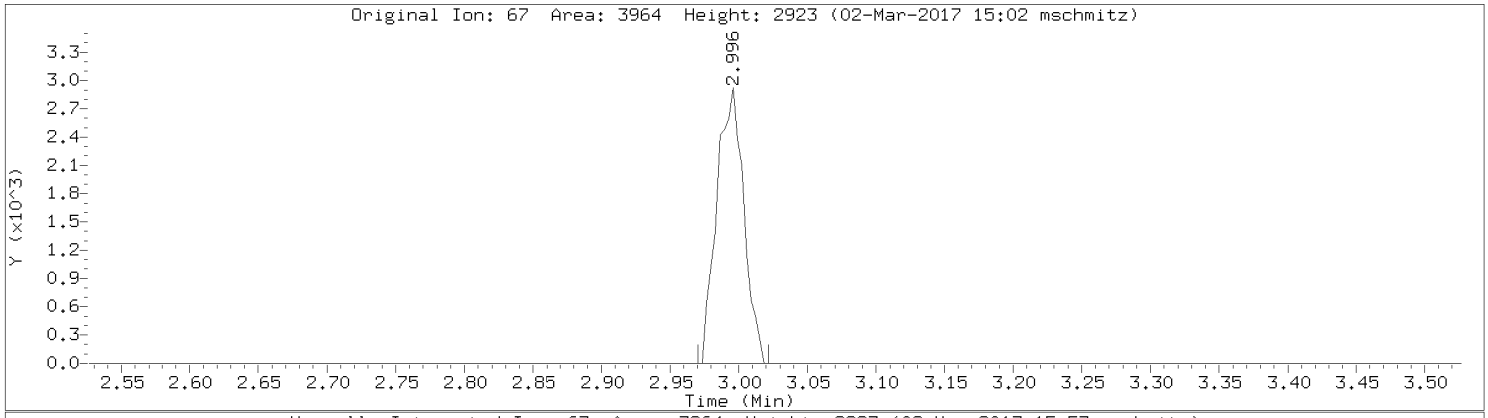


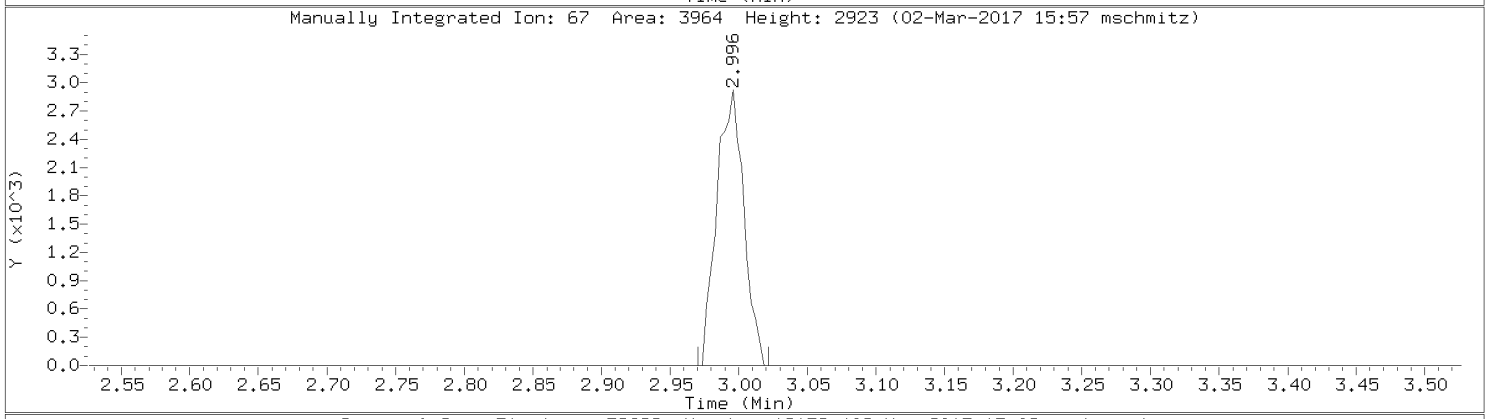
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

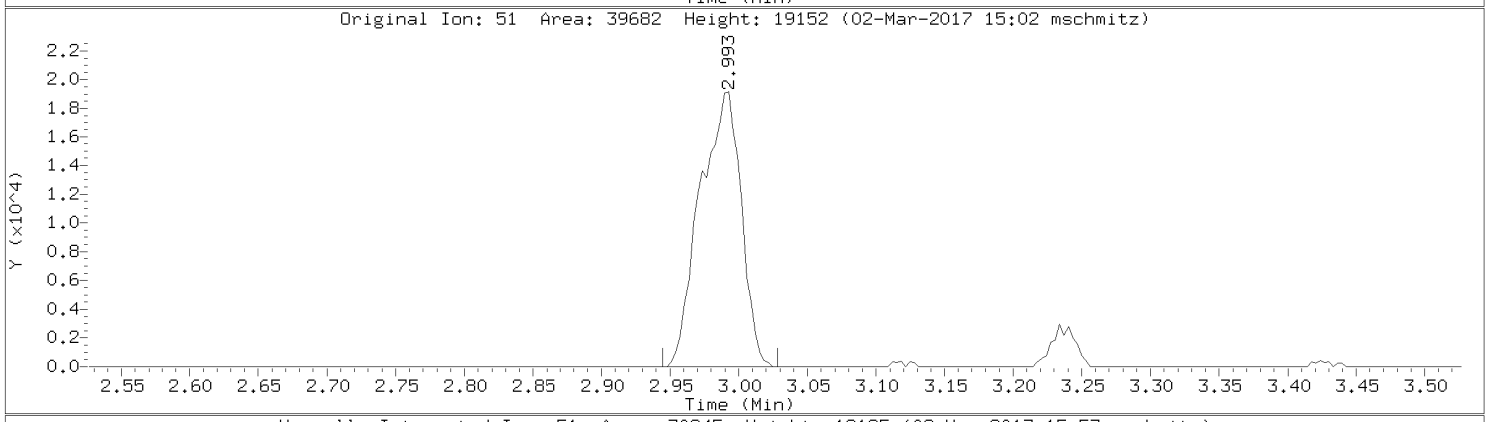


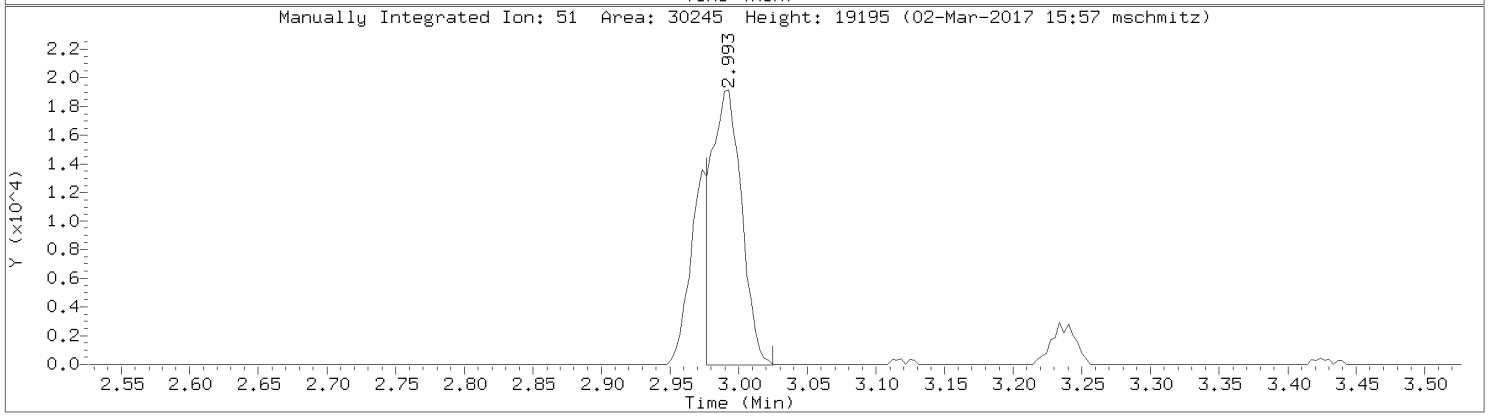
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

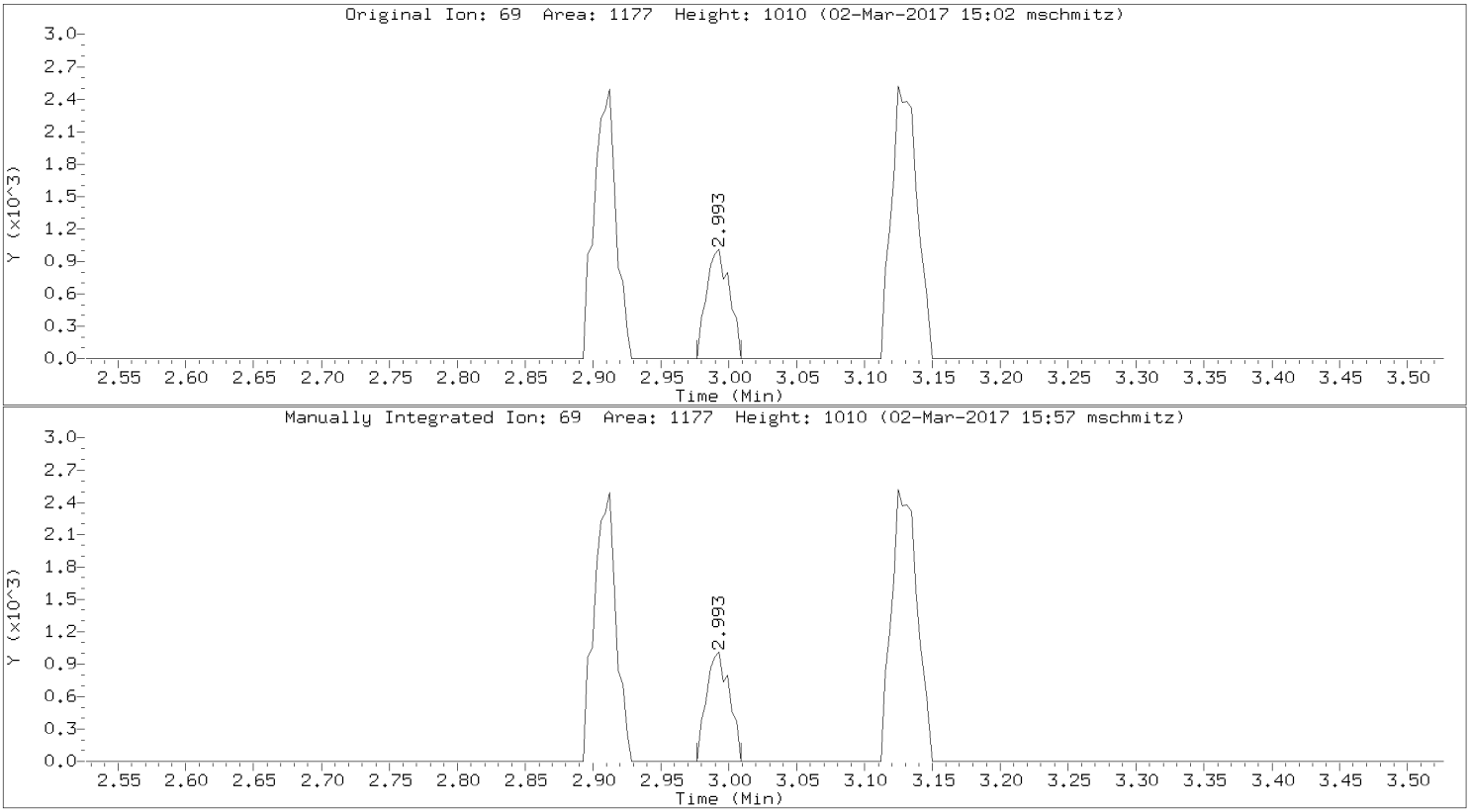






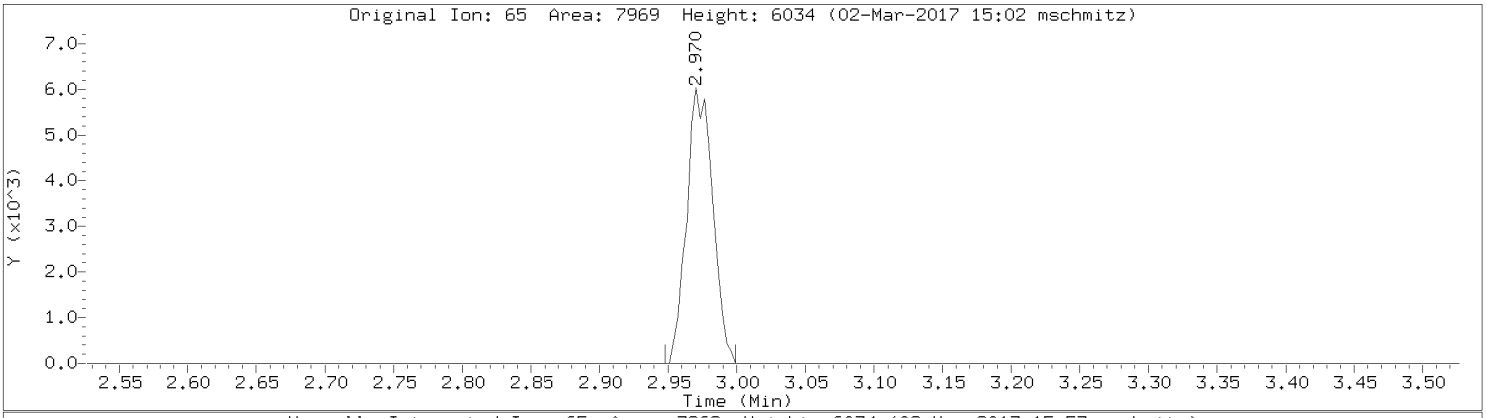


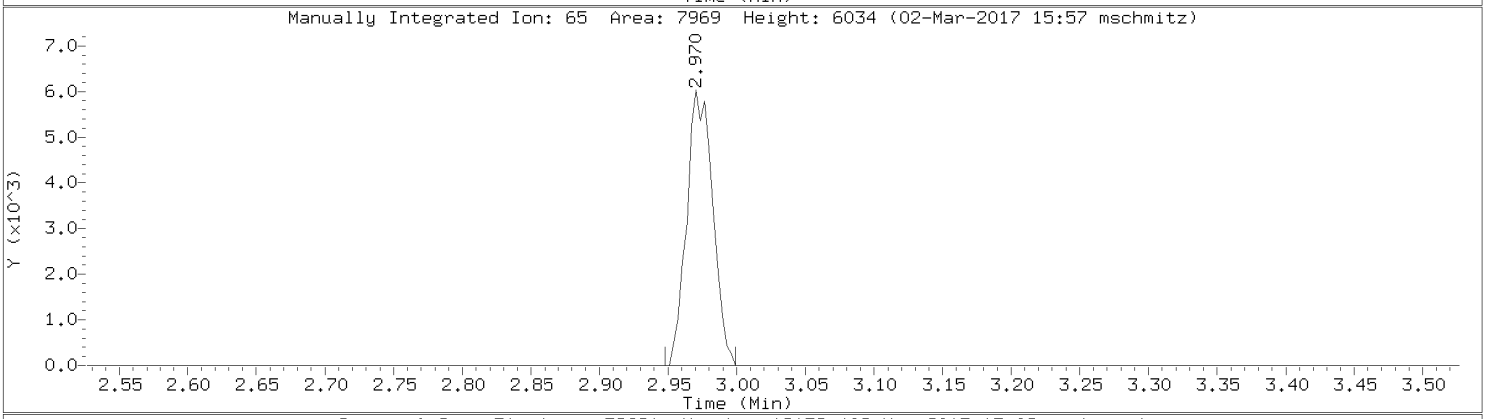
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

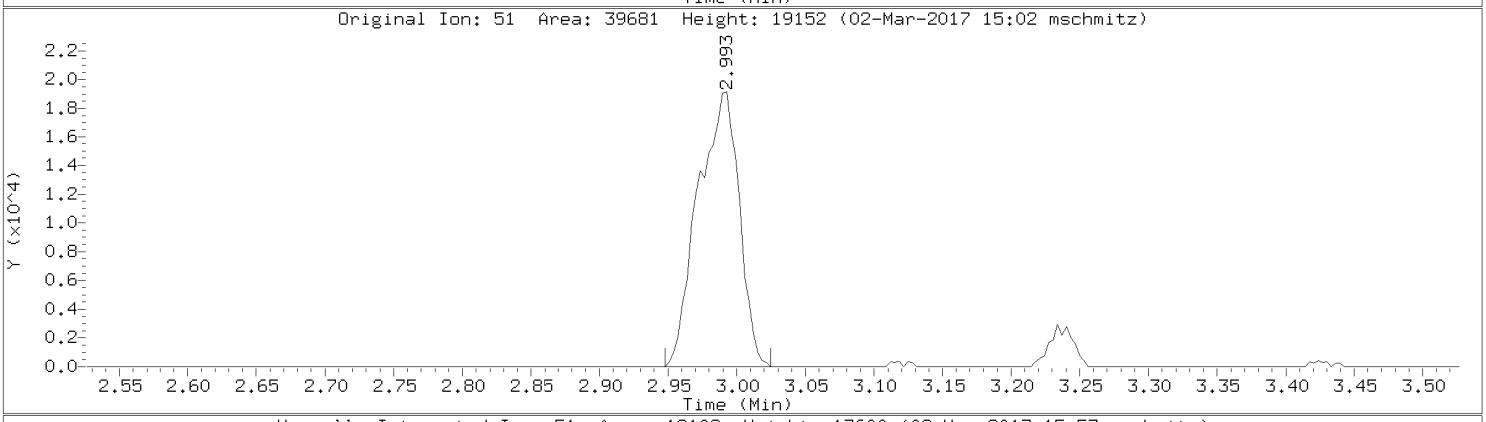


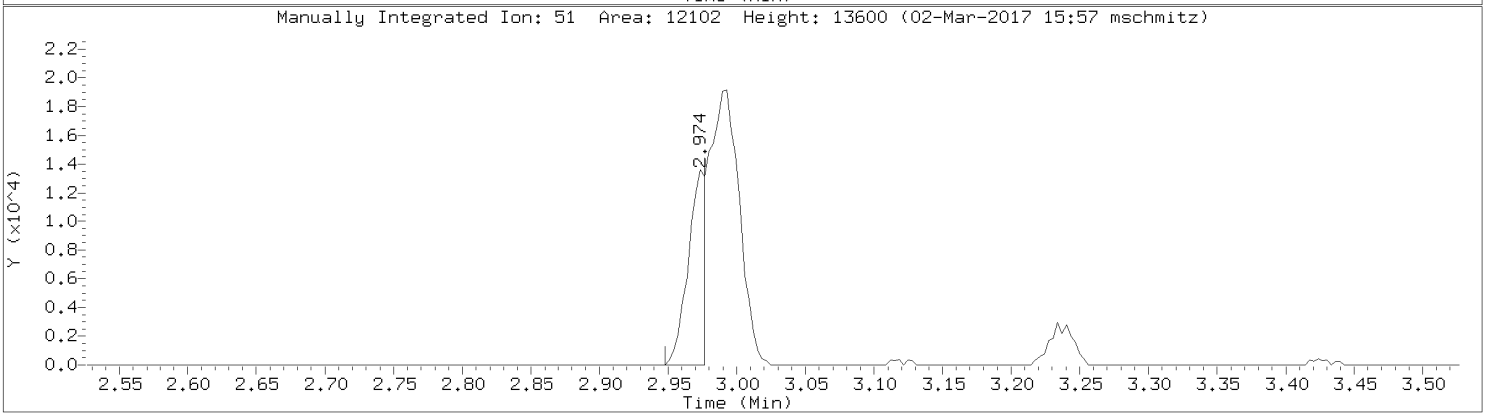
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

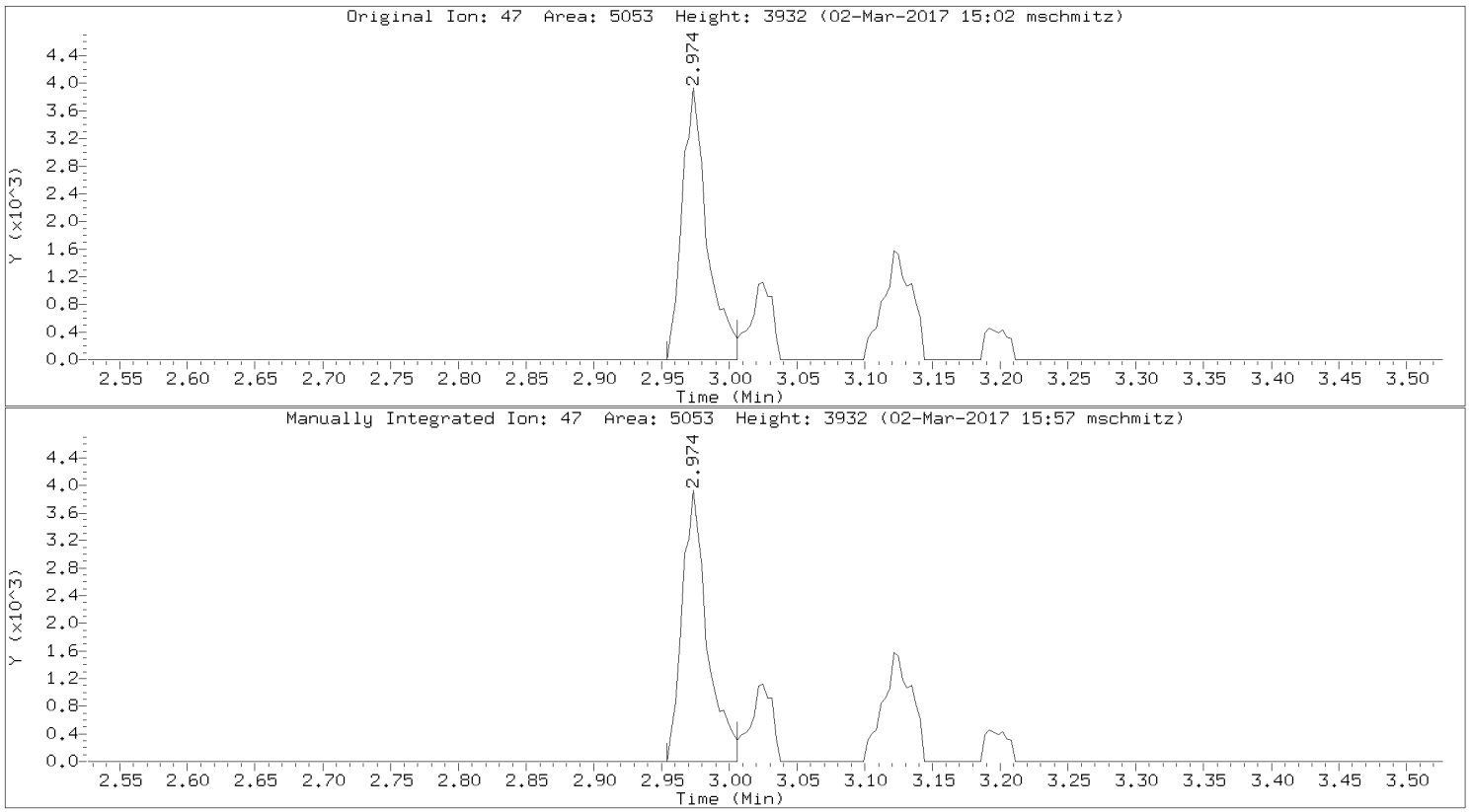






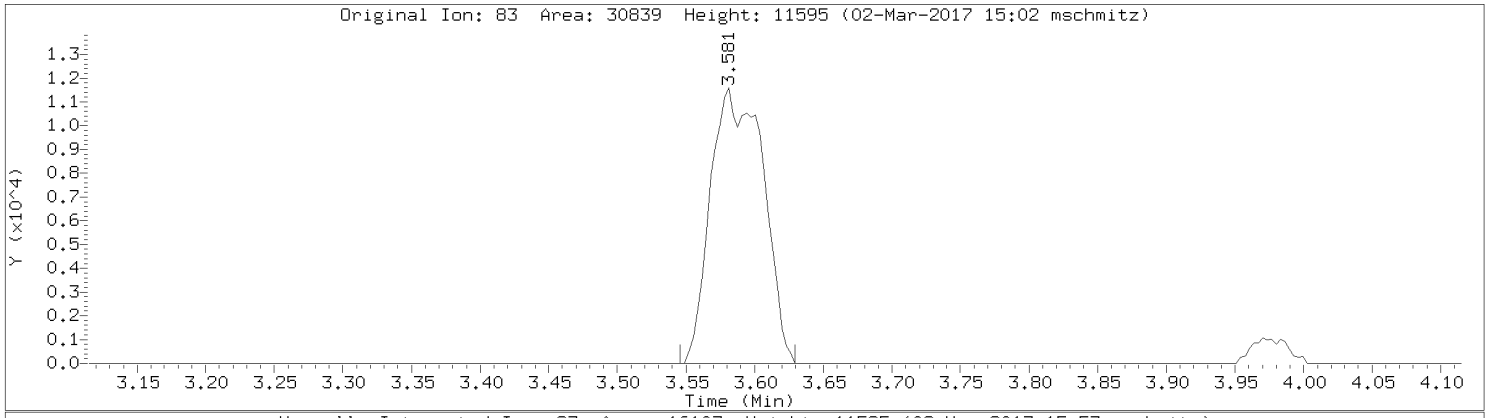


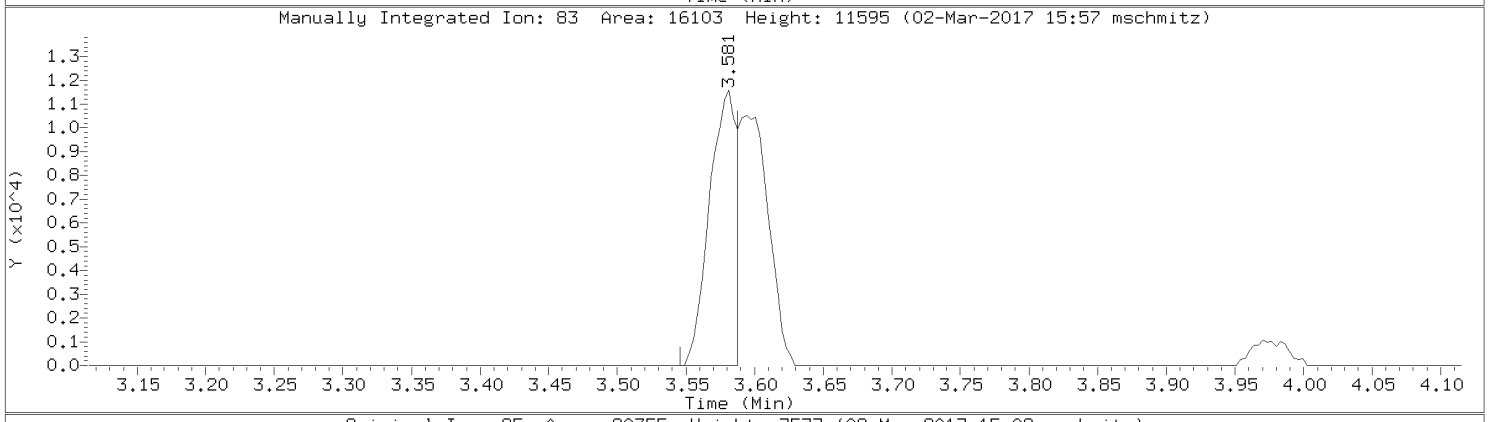
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

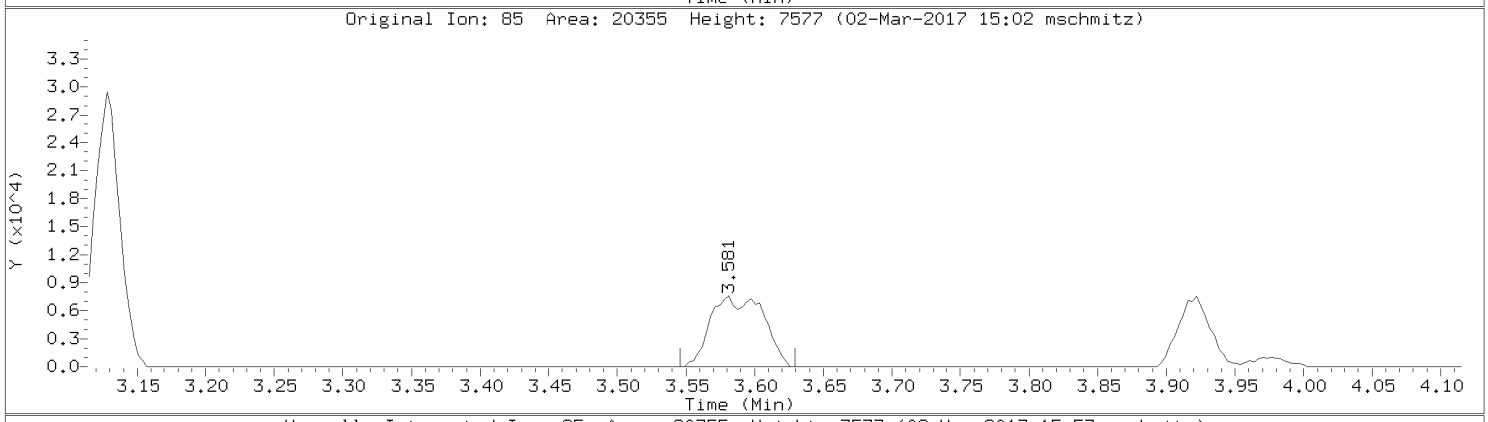


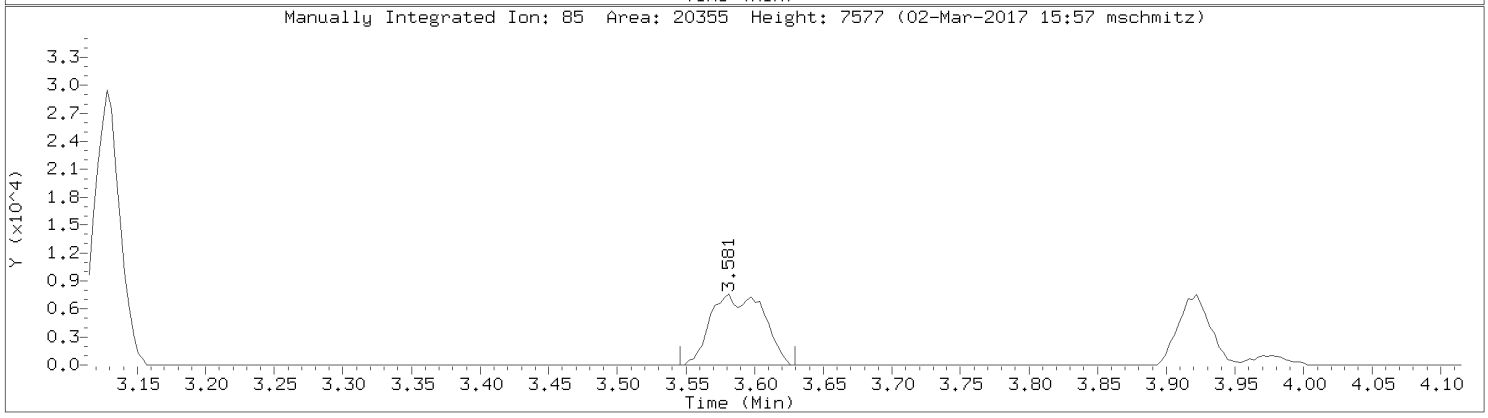
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Freon 123
CAS Number: 306-83-2

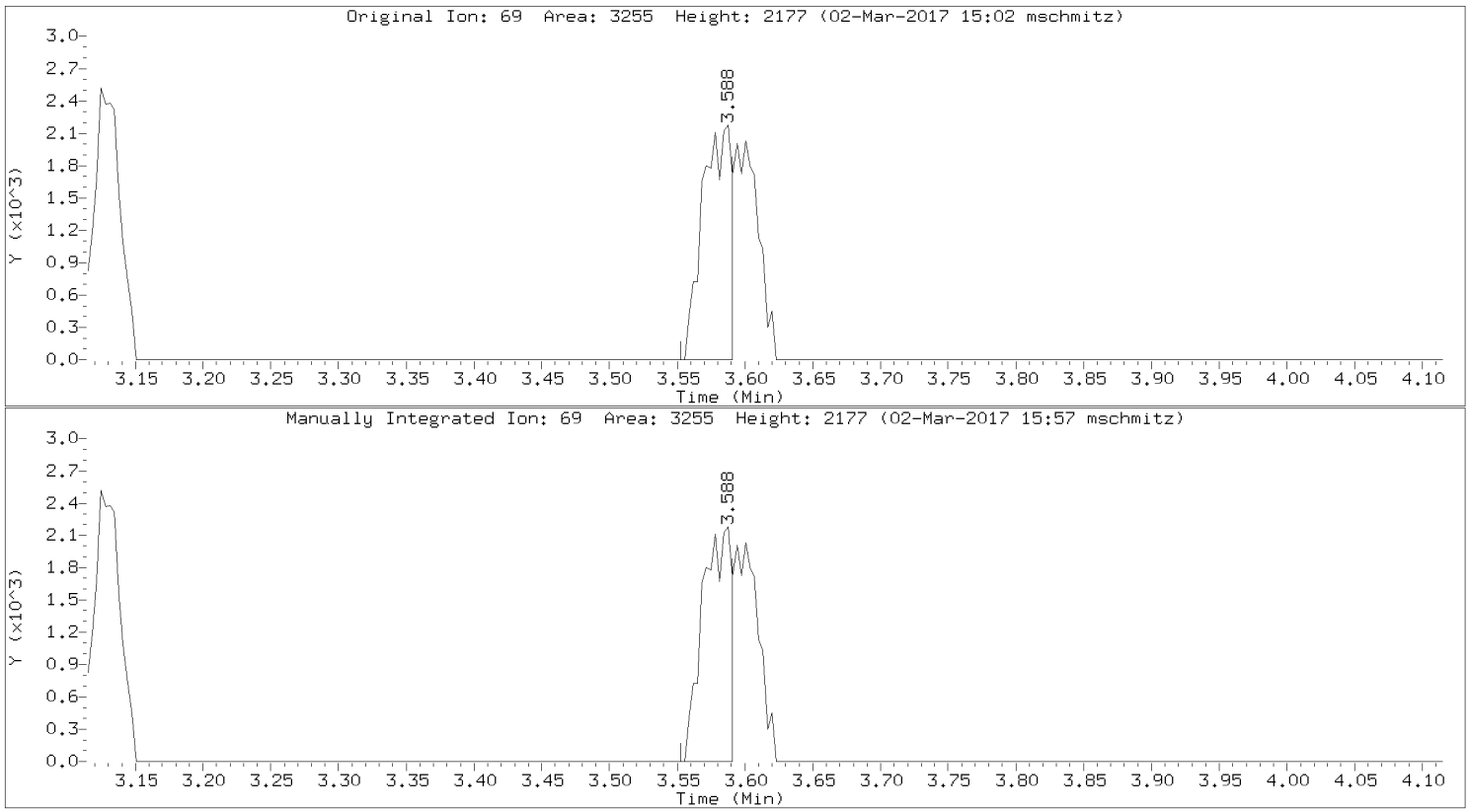








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Lab Smp Id: cal5
Inj Date : 02-MAR-2017 13:10
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:00 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 12:43 Cal File: 06112.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.948	2.948	(0.525)	104607	10.0000	10.0
2	1,1-Difluoroethane	65	3.018	3.018	(0.538)	85570	10.0000	10.3(Q)
3	Chlorodifluoromethane	67	3.025	3.025	(0.539)	41204	10.0000	10.4(Q)
4	Propylene	41	3.031	3.031	(0.540)	98681	10.0000	9.40
5	Dichlorodifluoromethane	85	3.063	3.063	(0.546)	413909	10.0000	10.3(H)
6	Chloromethane	50	3.160	3.160	(0.563)	162140	10.0000	9.98
7	Dichlorotetrafluoroethane	85	3.166	3.166	(0.564)	382615	10.0000	9.75
8	Vinyl chloride	62	3.234	3.234	(0.576)	144116	10.0000	10.3(H)
9	1,3-Butadiene	54	3.275	3.275	(0.584)	109011	10.0000	10.7
10	Bromomethane	94	3.411	3.411	(0.608)	131635	10.0000	10.1
11	Chloroethane	64	3.465	3.465	(0.617)	64288	10.0000	9.96
12	Ethanol	45	3.546	3.546	(0.632)	260378	50.0000	50.1
13	Vinyl Bromide	106	3.584	3.584	(0.639)	137400	10.0000	10.2
14	Isopentane	43	3.600	3.600	(0.641)	145015	10.0000	10.2
15	Freon 123	83	3.603	3.603	(0.642)	129273	10.0000	8.64(Q)
16	Trichlorofluoromethane	101	3.674	3.674	(0.655)	377905	10.0000	9.75(H)
17	Acrolein	56	3.684	3.684	(0.656)	138213	25.0000	26.2
18	Acetone	43	3.719	3.719	(0.663)	1048097	50.0000	46.7
19	Isopropyl Alcohol	45	3.767	3.767	(0.671)	1176801	50.0000	51.4
20	1,1-Dichloroethene	61	3.909	3.909	(0.696)	228240	10.0000	10.1
21	Acrylonitrile	53	3.928	3.928	(0.700)	281021	25.0000	27.1
22	Freon 113	101	3.947	3.947	(0.703)	290510	10.0000	9.92
23	Methyl Acetate	43	3.957	3.957	(0.705)	346874	10.0000	10.2

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.704)	747480	25.0000	25.4
	25 Methylene chloride	49	4.005	4.005	(0.714)	771232	50.0000	48.7(H)
	26 Allyl Chloride	76	4.021	4.021	(0.716)	140726	25.0000	25.5(Q)
	27 Carbon Disulfide	76	4.124	4.124	(0.735)	331437	10.0000	11.1
	28 trans-1,2-dichloroethene	96	4.279	4.279	(0.762)	137571	10.0000	10.9
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	908222	25.0000	25.2
	30 Vinyl Acetate	43	4.388	4.388	(0.782)	385061	10.0000	10.2
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	254235	10.0000	10.3
$	32 Hexane-d14(S)	66	4.488	4.488	(0.800)	441027	10.0000	9.80
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	65846	10.0000	9.85(Q)
	34 n-Hexane	57	4.584	4.584	(0.817)	232988	10.0000	10.3(Q)
	35 Di-isopropyl Ether	45	4.603	4.603	(0.820)	442149	10.0000	10.1
	36 Ethyl Acetate	43	4.716	4.716	(0.840)	320011	10.0000	11.0
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.841)	160633	10.0000	11.4
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	1228924	25.0000	26.8
	39 Chloroform	83	4.841	4.841	(0.863)	319627	10.0000	10.9
	40 Tetrahydrofuran	42	4.992	4.992	(0.889)	160630	10.0000	10.3
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	362586	10.0000	10.5
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	268379	10.0000	10.3
	43 Benzene	78	5.465	5.465	(0.974)	478819	10.0000	10.5
	44 Carbon tetrachloride	117	5.488	5.488	(0.978)	385538	10.0000	11.2
	45 Cyclohexane	56	5.488	5.488	(0.978)	237050	10.0000	10.4
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	445708	10.0000	10.0
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1414114	10.0000	
	48 2,2,4-Trimethylpentane	57	5.771	5.771	(1.028)	1831044	25.0000	25.9
	49 Heptane	43	5.890	5.890	(1.049)	264868	10.0000	10.4
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	170677	10.0000	10.3
	51 Trichloroethene	130	5.986	5.986	(1.066)	242650	10.0000	10.2
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	165273	10.0000	10.7
	53 1,4-Dioxane	88	6.063	6.063	(1.080)	111424	10.0000	10.5
	54 Bromodichloromethane	83	6.086	6.086	(1.084)	364714	10.0000	10.8
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	132902	10.0000	10.3
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	938867	25.0000	27.0
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	285919	10.0000	10.1
	58 trans-1,3-Dichloropropene	75	6.983	6.983	(1.244)	268282	10.0000	10.3
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1247636	10.0000	9.86
	60 1,1,2-Trichloroethane	97	7.140	7.140	(1.272)	192251	10.0000	10.1
	61 Toluene	91	7.153	7.153	(1.274)	578322	10.0000	10.1
	62 Methyl Butyl Ketone	43	7.369	7.369	(0.852)	860819	25.0000	28.7
	63 n-Octane	43	7.581	7.581	(0.877)	361448	10.0000	11.1
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	385835	10.0000	10.3
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	332151	10.0000	10.8
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	332343	10.0000	10.1
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	951026	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	485132	10.0000	10.3
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	763091	10.0000	10.9
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1205274	20.0000	22.0
	71 n-Nonane	43	9.471	9.471	(1.096)	338293	10.0000	11.9
	72 Bromoform	173	9.478	9.478	(1.096)	367770	10.0000	10.2
	73 Styrene	104	9.507	9.507	(1.100)	465333	10.0000	10.0
	74 o-Xylene	91	9.581	9.581	(1.108)	605642	10.0000	10.8
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	349462	10.0000	11.4
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	821922	10.0000	10.4
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	929423	10.0000	10.4

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	815307	10.0000	10.0
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	689551	10.0000	10.3
80	n-Decane	57	11.381	11.381	(2.028)	350331	10.0000	9.70
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	712051	10.0000	11.3
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	653414	10.0000	11.6
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	423299	10.0000	10.5
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	935378	10.0000	11.8
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	580192	10.0000	11.1(M)
86	Benzyl Chloride	91	11.864	11.864	(1.372)	427013	10.0000	9.97
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	419240	10.0000	11.3
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	793111	10.0000	10.5
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	651233	10.0000	11.7
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.420)	395633	10.0000	10.1
91	N-Butylbenzene	91	12.462	12.462	(1.441)	612616	10.0000	10.6
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	154681	10.0000	10.2
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.624)	156379	10.0000	9.74
94	Naphthalene	128	14.169	14.169	(1.639)	369664	10.0000	9.64
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	183626	10.0000	11.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06113.D
Lab Smp Id: cal5
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

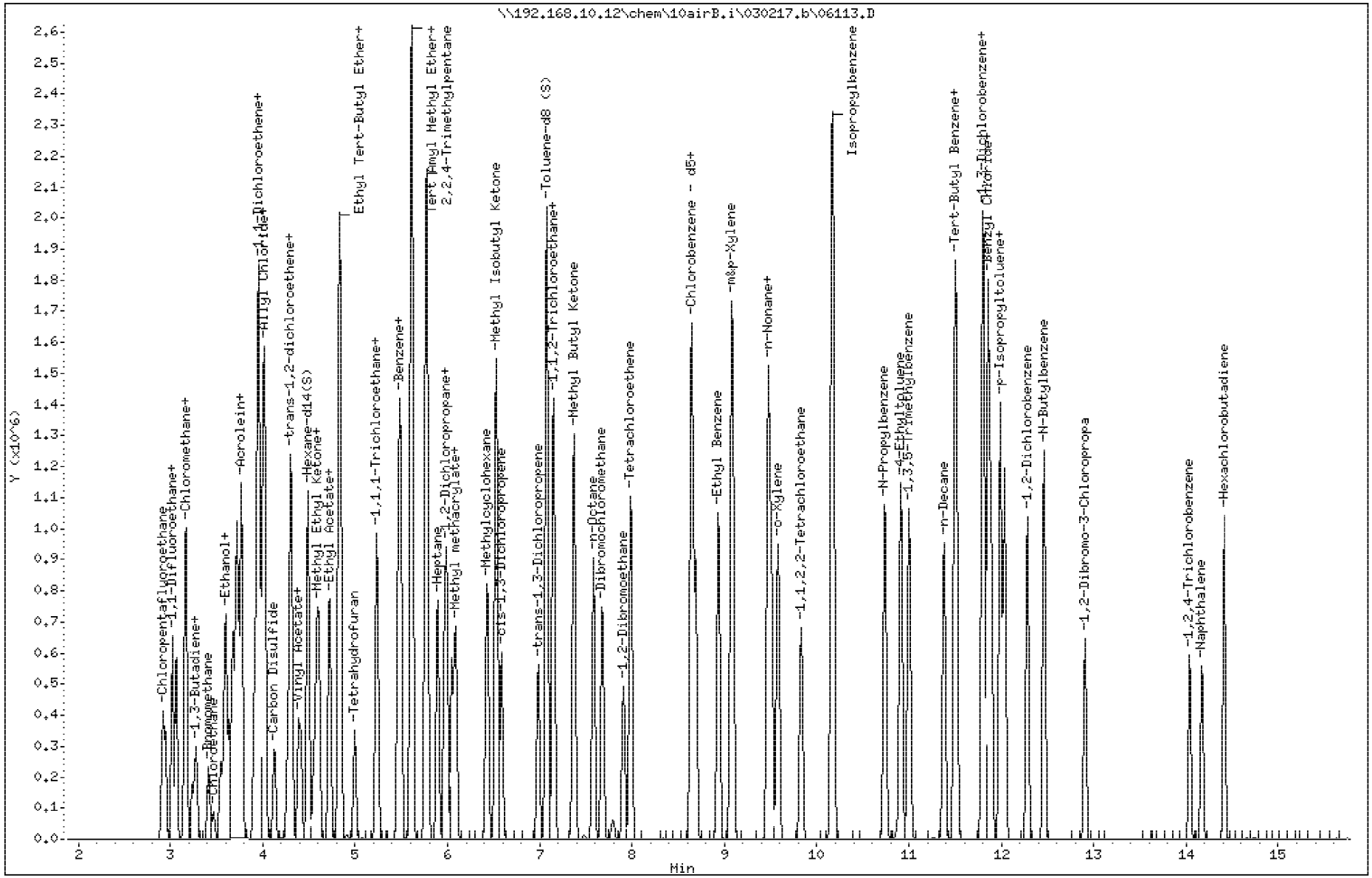
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1414114	0.00
67 Chlorobenzene - d	951026	570616	1331436	951026	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

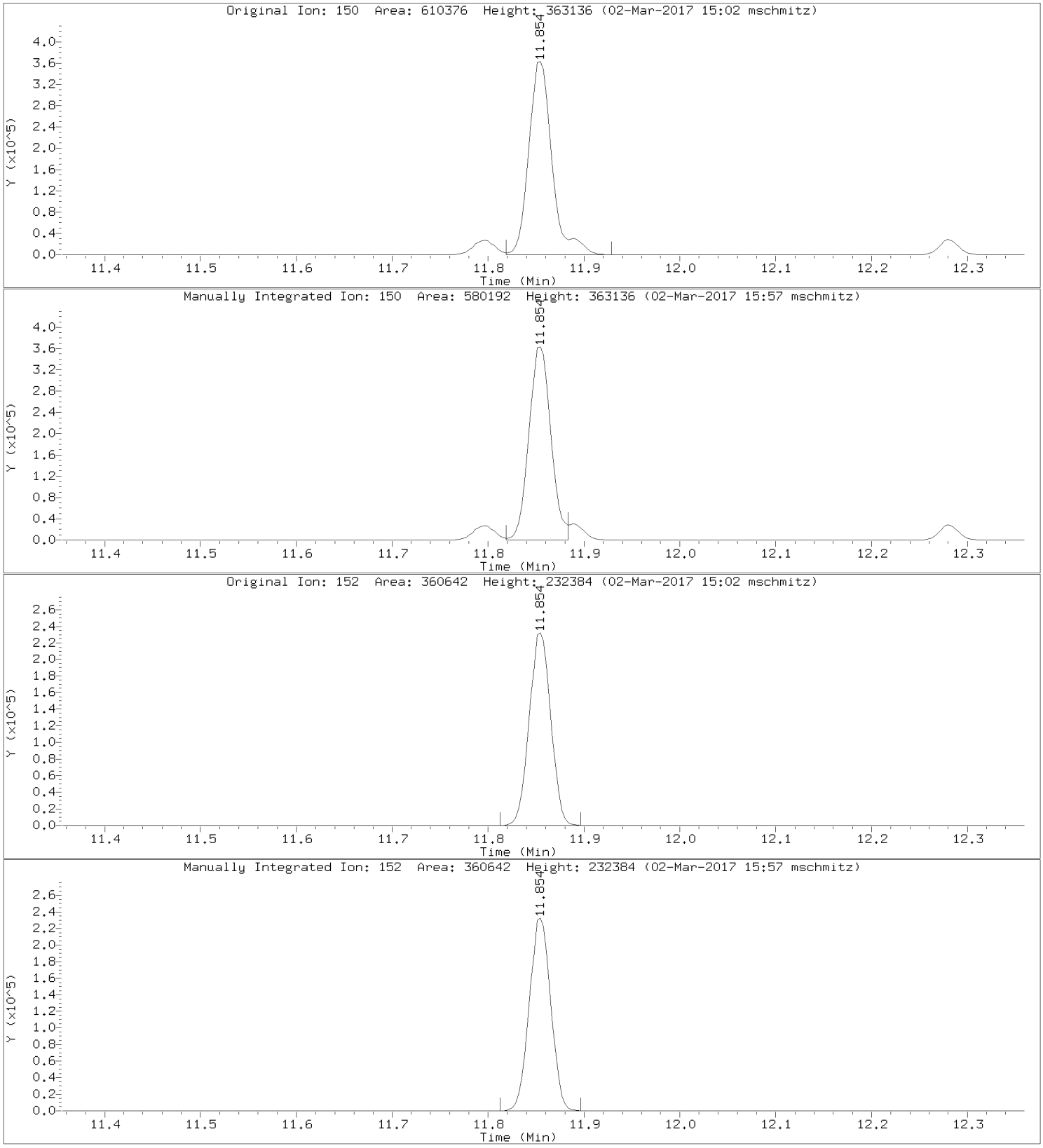
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Date : 02-MAR-2017 13:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030217.b/06113.D
Injection Date: 02-MAR-2017 13:10
Instrument: 10airB.i
Lab Sample ID: cal5

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Lab Smp Id: cal6
Inj Date : 02-MAR-2017 13:39
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:01 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 13:10 Cal File: 06113.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.938	2.938	(0.523)	140241	20.0000	13.1
2	1,1-Difluoroethane	65	3.021	3.021	(0.538)	168746	20.0000	19.9
3	Chlorodifluoromethane	67	3.021	3.021	(0.538)	80199	20.0000	19.8
4	Propylene	41	3.025	3.025	(0.538)	197124	20.0000	19.0
5	Dichlorodifluoromethane	85	3.060	3.060	(0.545)	810812	20.0000	19.9
6	Chloromethane	50	3.160	3.160	(0.562)	318845	20.0000	19.2
7	Dichlorotetrafluoroethane	85	3.169	3.169	(0.564)	761624	20.0000	19.0
8	Vinyl chloride	62	3.240	3.240	(0.577)	284977	20.0000	19.9(H)
9	1,3-Butadiene	54	3.282	3.282	(0.584)	213076	20.0000	20.4
10	Bromomethane	94	3.417	3.417	(0.608)	262284	20.0000	19.8
11	Chloroethane	64	3.472	3.472	(0.618)	131687	20.0000	20.0
12	Ethanol	45	3.555	3.555	(0.633)	539315	100.000	102
13	Vinyl Bromide	106	3.587	3.587	(0.638)	268301	20.0000	19.5
14	Isopentane	43	3.603	3.603	(0.641)	281297	20.0000	19.5
15	Freon 123	83	3.607	3.607	(0.642)	313230	20.0000	20.6
16	Trichlorofluoromethane	101	3.681	3.681	(0.655)	740590	20.0000	18.7(M)
17	Acrolein	56	3.690	3.690	(0.657)	268448	50.0000	48.9
18	Acetone	43	3.729	3.729	(0.664)	2020457	100.000	88.2
19	Isopropyl Alcohol	45	3.777	3.777	(0.672)	2219304	100.000	95.0
20	1,1-Dichloroethene	61	3.918	3.918	(0.697)	447186	20.0000	19.4
21	Acrylonitrile	53	3.938	3.938	(0.701)	531086	50.0000	50.2
22	Freon 113	101	3.954	3.954	(0.704)	541684	20.0000	18.1
23	Methyl Acetate	43	3.967	3.967	(0.706)	639348	20.0000	18.3

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.967	3.967	(0.706)	1378833	50.0000	45.9
	25 Methylene chloride	49	4.012	4.012	(0.714)	1441659	100.000	89.2(H)
	26 Allyl Chloride	76	4.025	4.025	(0.716)	270021	50.0000	49.5
	27 Carbon Disulfide	76	4.131	4.131	(0.735)	658435	20.0000	21.6
	28 trans-1,2-dichloroethene	96	4.285	4.285	(0.763)	264643	20.0000	20.5
	29 Methyl Tert Butyl Ether	73	4.311	4.311	(0.767)	1762335	50.0000	47.9
	30 Vinyl Acetate	43	4.398	4.398	(0.783)	772513	20.0000	19.8
	31 1,1-Dichloroethane	63	4.420	4.420	(0.787)	502791	20.0000	20.0
$	32 Hexane-d14(S)	66	4.494	4.494	(0.800)	465843	10.0000	10.1
	33 Methyl Ethyl Ketone	72	4.562	4.562	(0.812)	136332	20.0000	19.9(Q)
	34 n-Hexane	57	4.587	4.587	(0.816)	454662	20.0000	19.8(M)
	35 Di-isopropyl Ether	45	4.610	4.610	(0.820)	885656	20.0000	19.8
	36 Ethyl Acetate	43	4.722	4.722	(0.840)	596888	20.0000	20.2
	37 cis-1,2-Dichloroethene	96	4.732	4.732	(0.842)	294426	20.0000	20.4
	38 Ethyl Tert-Butyl Ether	59	4.835	4.835	(0.860)	2280106	50.0000	48.8
	39 Chloroform	83	4.851	4.851	(0.863)	596539	20.0000	20.0
	40 Tetrahydrofuran	42	4.999	4.999	(0.890)	327751	20.0000	20.5
	41 1,1,1-Trichloroethane	97	5.237	5.237	(0.932)	693039	20.0000	19.7
	42 1,2-Dichloroethane	62	5.243	5.243	(0.933)	507033	20.0000	19.0
	43 Benzene	78	5.471	5.471	(0.974)	926597	20.0000	19.9
	44 Carbon tetrachloride	117	5.491	5.491	(0.977)	728330	20.0000	20.7
	45 Cyclohexane	56	5.491	5.491	(0.977)	444479	20.0000	19.1
	46 Tert Amyl Methyl Ether	73	5.610	5.610	(0.998)	890854	20.0000	19.9
*	47 1,4-Difluorobenzene	114	5.619	5.619	(1.000)	1443091	10.0000	
	48 2,2,4-Trimethylpentane	57	5.777	5.777	(1.028)	3434763	50.0000	47.6
	49 Heptane	43	5.896	5.896	(1.049)	527590	20.0000	20.3
	50 1,2-Dichloropropane	63	5.973	5.973	(1.063)	338436	20.0000	20.1
	51 Trichloroethene	130	5.992	5.992	(1.066)	479589	20.0000	19.8
	52 Methyl methacrylate	69	6.050	6.050	(1.077)	335488	20.0000	21.3
	53 1,4-Dioxane	88	6.070	6.070	(1.080)	227042	20.0000	20.9
	54 Bromodichloromethane	83	6.092	6.092	(1.084)	709196	20.0000	20.6
	55 Methylcyclohexane	98	6.439	6.439	(1.146)	266242	20.0000	19.7
	56 Methyl Isobutyl Ketone	43	6.536	6.536	(1.163)	1773972	50.0000	50.0
	57 cis-1,3-Dichloropropene	75	6.590	6.590	(1.173)	572916	20.0000	19.7
	58 trans-1,3-Dichloropropene	75	6.989	6.989	(1.244)	540240	20.0000	19.8
$	59 Toluene-d8 (S)	98	7.082	7.082	(1.260)	1296141	10.0000	10.0
	60 1,1,2-Trichloroethane	97	7.150	7.150	(1.272)	374337	20.0000	19.3
	61 Toluene	91	7.160	7.160	(1.274)	1147560	20.0000	19.7
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.853)	1667264	50.0000	53.9
	63 n-Octane	43	7.587	7.587	(0.877)	704727	20.0000	21.0
	64 Dibromochloromethane	129	7.684	7.684	(0.888)	768082	20.0000	19.9
	65 1,2-Dibromoethane	107	7.912	7.912	(0.915)	653542	20.0000	20.7
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	651668	20.0000	19.2
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	978826	10.0000	
	68 Chlorobenzene	112	8.690	8.690	(1.005)	970936	20.0000	20.0
	69 Ethyl Benzene	91	8.938	8.938	(1.033)	1505148	20.0000	20.9
	70 m&p-Xylene	91	9.085	9.085	(1.051)	2274387	40.0000	40.3
	71 n-Nonane	43	9.475	9.475	(1.096)	626476	20.0000	21.5
	72 Bromoform	173	9.484	9.484	(1.097)	705920	20.0000	19.8
	73 Styrene	104	9.510	9.510	(1.100)	918818	20.0000	20.0
	74 o-Xylene	91	9.584	9.584	(1.108)	1186565	20.0000	20.6
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	688020	20.0000	21.7
	76 Isopropylbenzene	105	10.166	10.166	(1.175)	1606607	20.0000	19.7
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	1826015	20.0000	19.8

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.262)	1614385	20.0000	20.0
79	1,3,5-Trimethylbenzene	105	11.005	11.005	(1.273)	1370583	20.0000	19.9
80	n-Decane	57	11.381	11.381	(2.025)	729038	20.0000	19.5
81	Tert-Butyl Benzene	119	11.500	11.500	(1.330)	1377149	20.0000	21.2
82	1,2,4-Trimethylbenzene	105	11.516	11.516	(1.332)	1246916	20.0000	21.4
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	815126	20.0000	19.7
84	Sec- Butylbenzene	105	11.809	11.809	(1.365)	1735332	20.0000	21.3
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.371)	611804	10.0000	11.3(M)
86	Benzyl Chloride	91	11.867	11.867	(1.372)	897595	20.0000	20.0
87	1,4-Dichlorobenzene	146	11.892	11.892	(1.375)	828579	20.0000	21.8
88	p-Isopropyltoluene	119	11.992	11.992	(1.387)	1535893	20.0000	19.8
89	1,2,3-Trimethylbenzene	105	12.037	12.037	(1.392)	1243764	20.0000	21.7
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.420)	776749	20.0000	19.9
91	N-Butylbenzene	91	12.462	12.462	(1.441)	1214291	20.0000	20.4
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	319932	20.0000	20.3
93	1,2,4-Trichlorobenzene	180	14.040	14.040	(1.623)	358428	20.0000	20.3
94	Naphthalene	128	14.169	14.169	(1.638)	797177	20.0000	19.8
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	364513	20.0000	21.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06114.D
Lab Smp Id: cal6
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

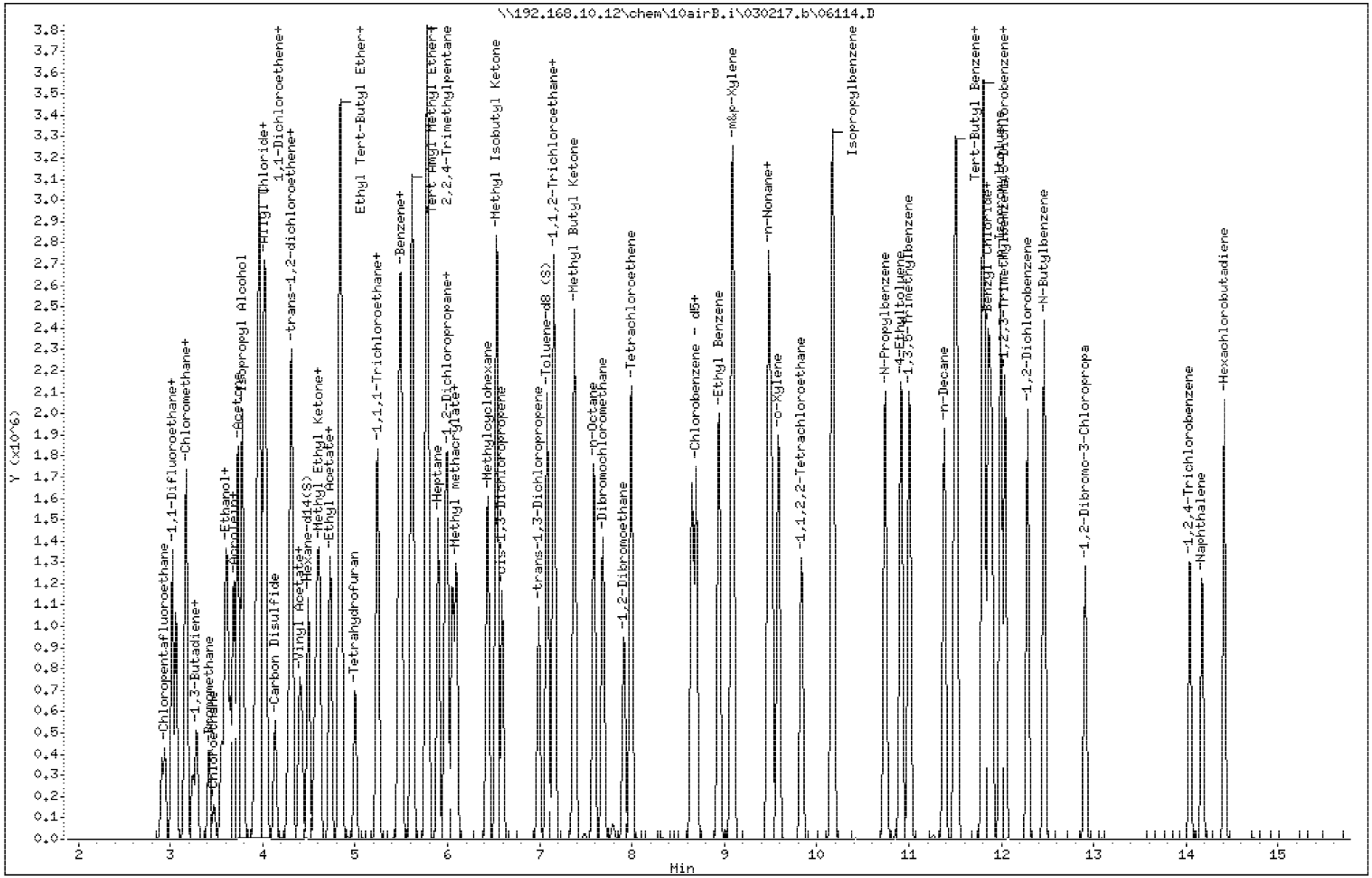
Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1443091	2.05
67 Chlorobenzene - d	951026	570616	1331436	978826	2.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

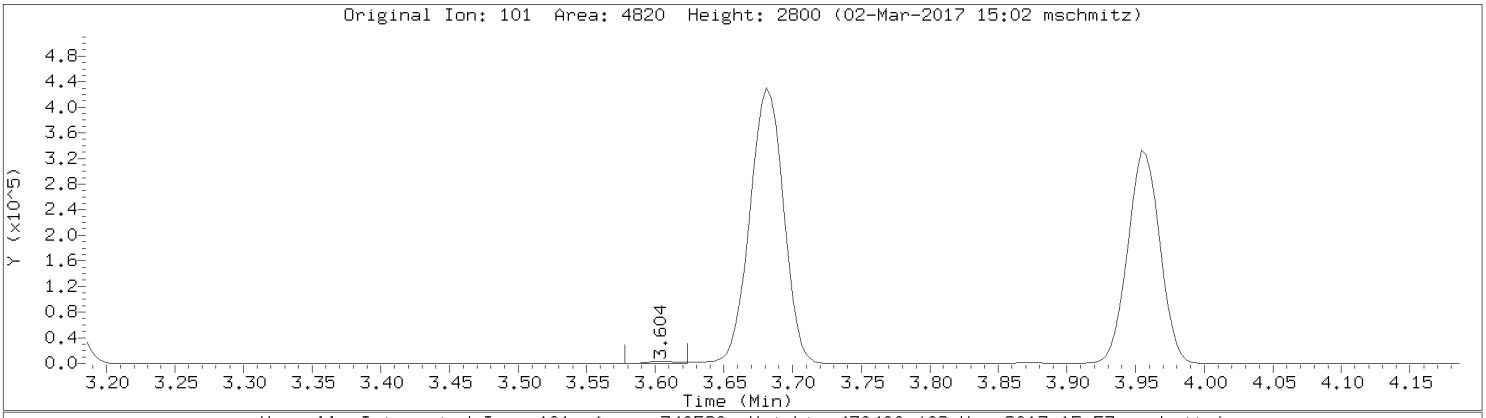
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

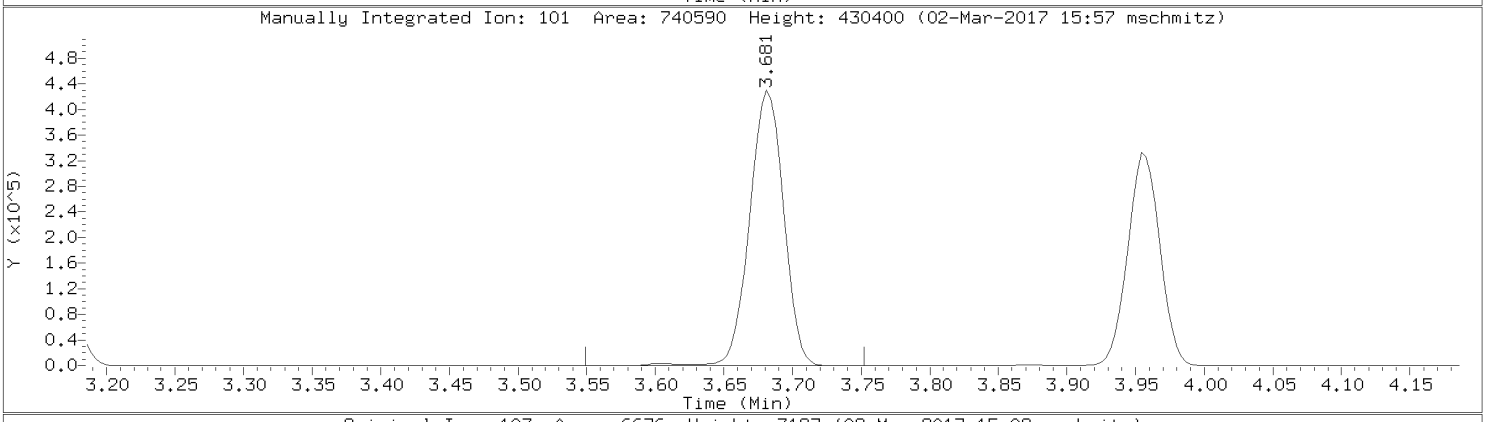
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Date : 02-MAR-2017 13:39
Client ID:
Instrument: 10airB.i
Sample Info:
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

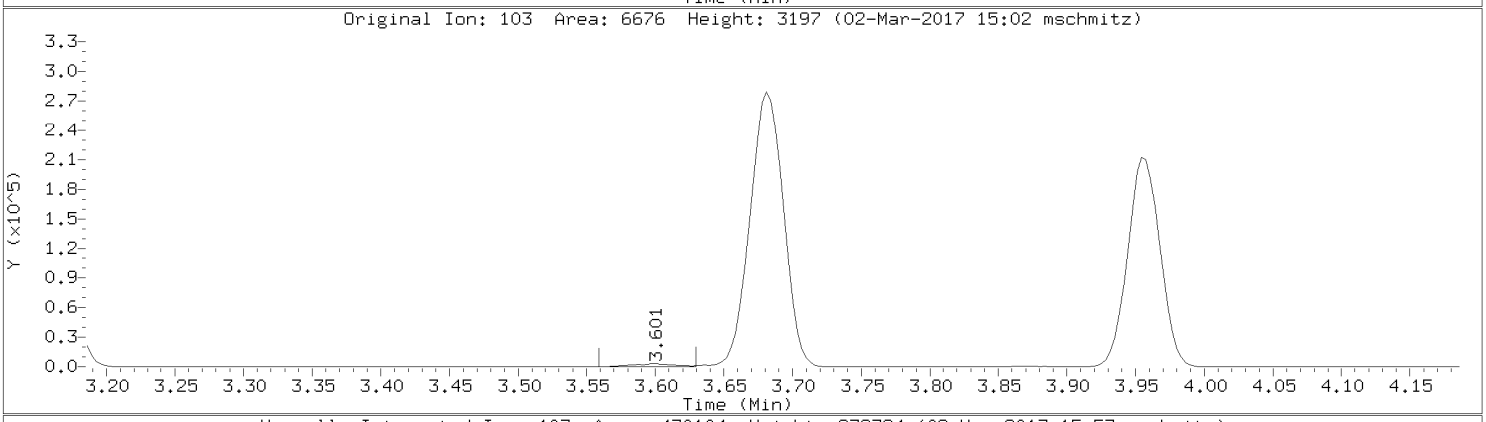


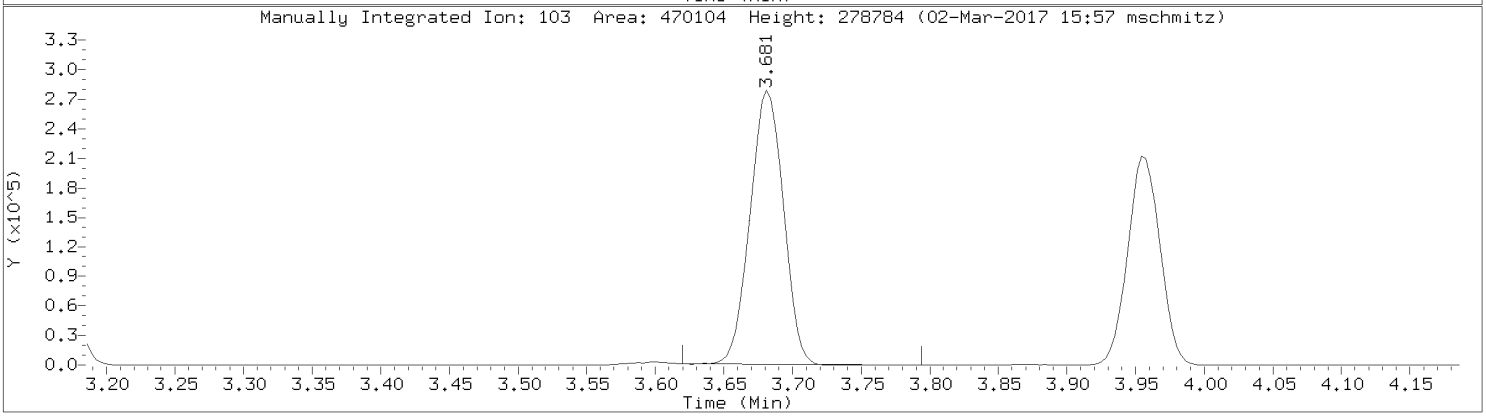
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

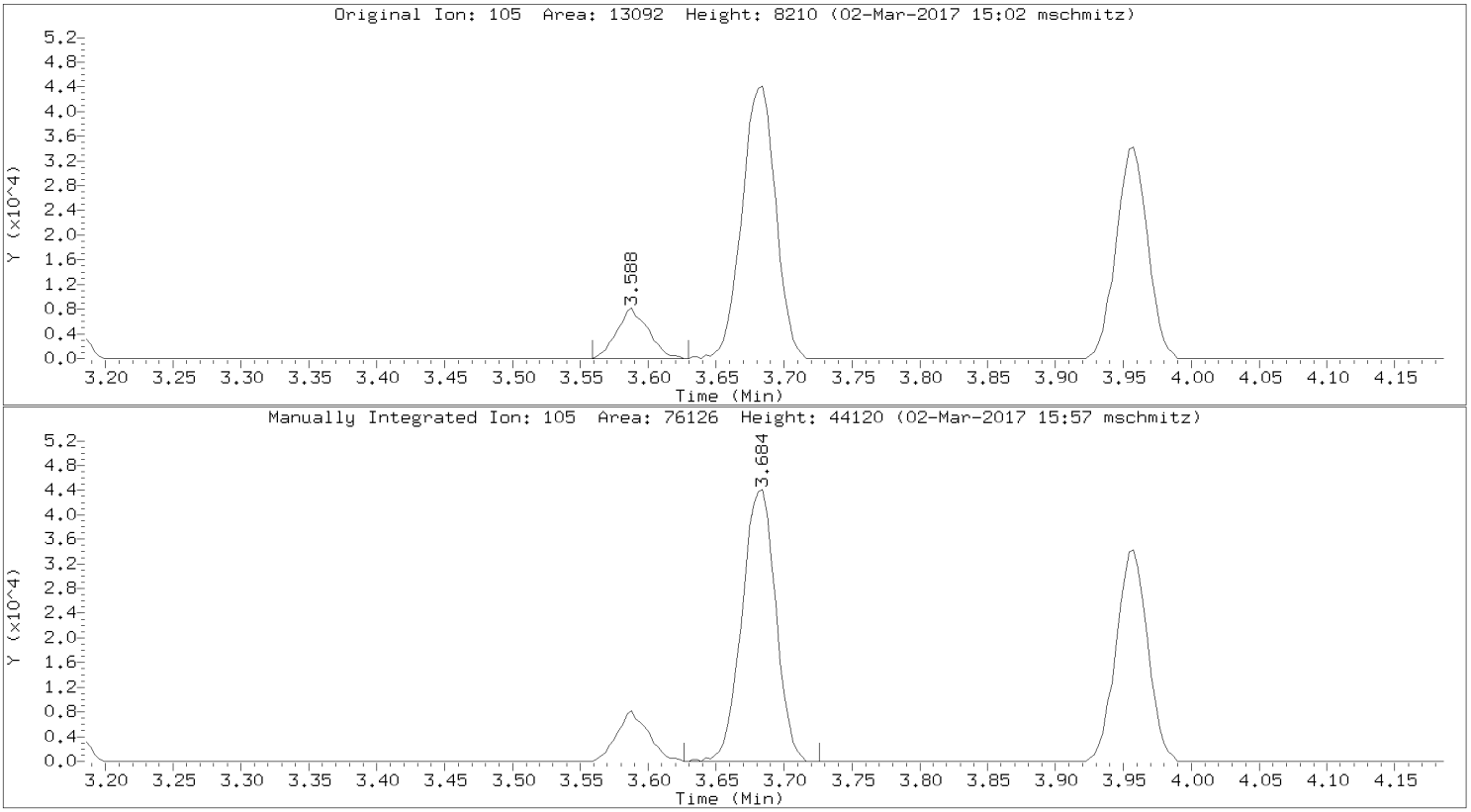






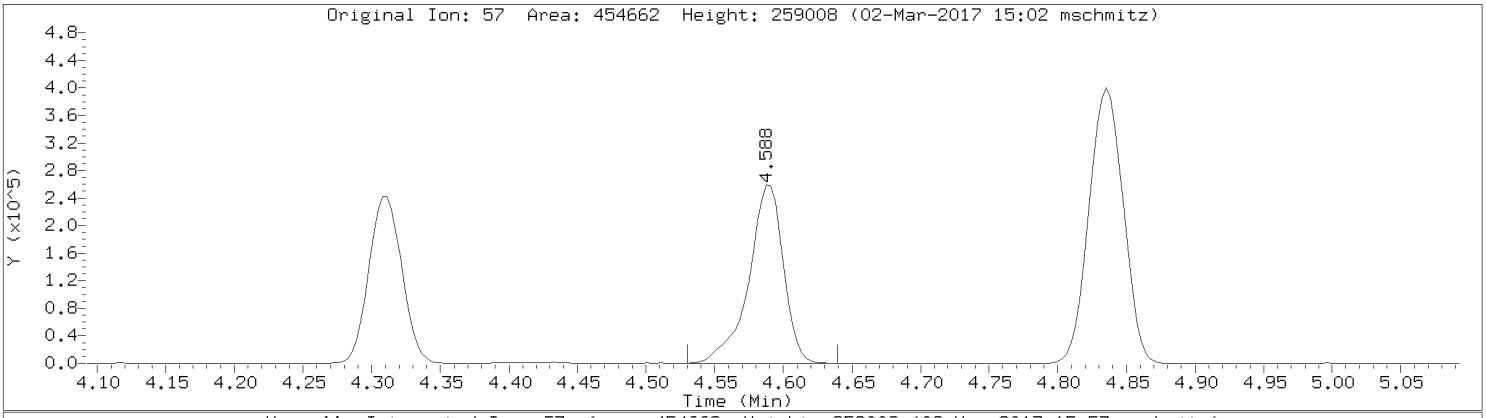


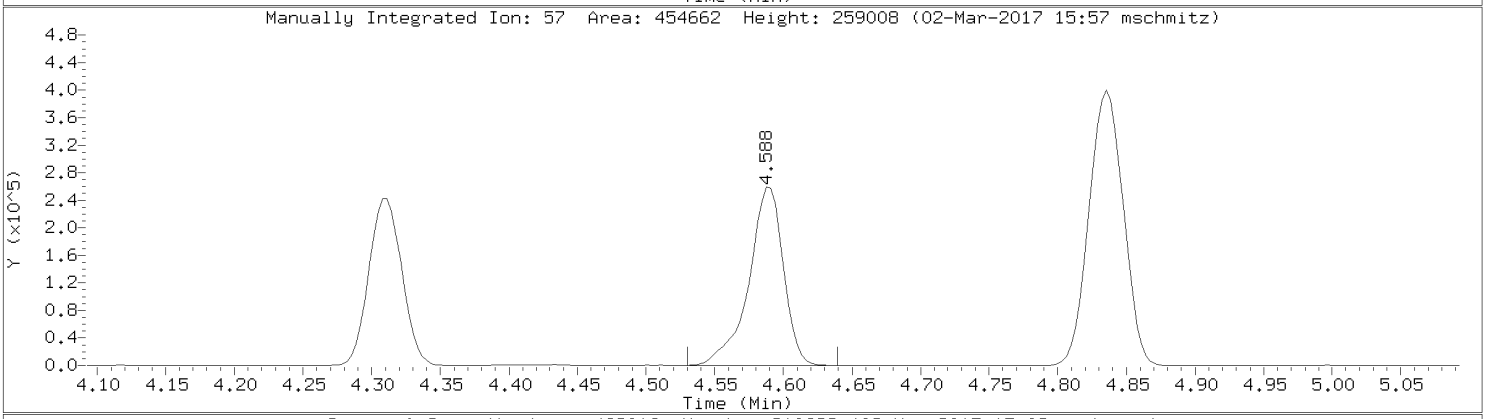
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

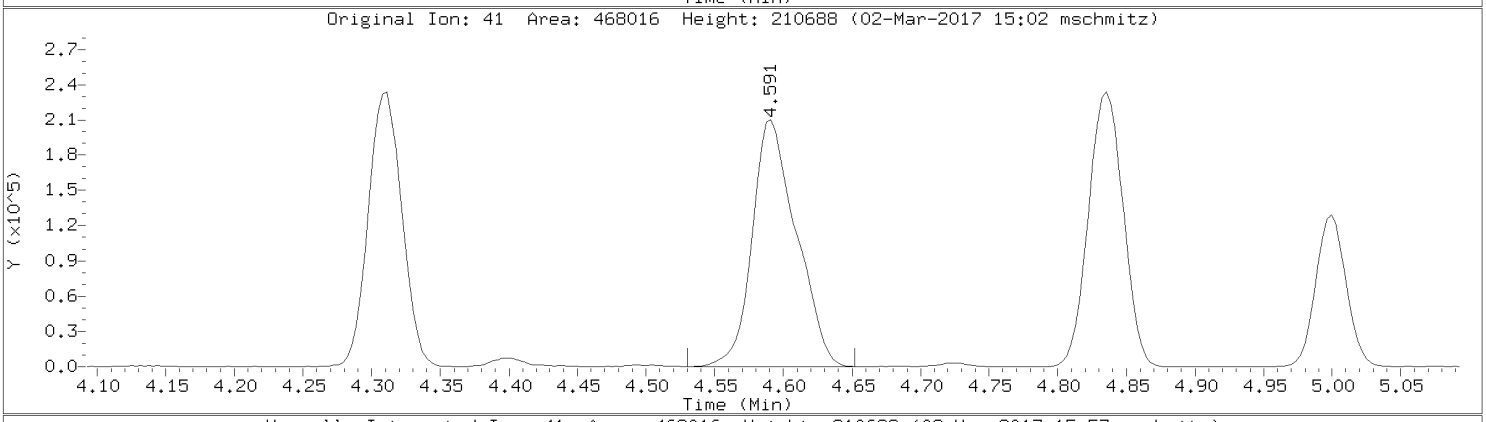


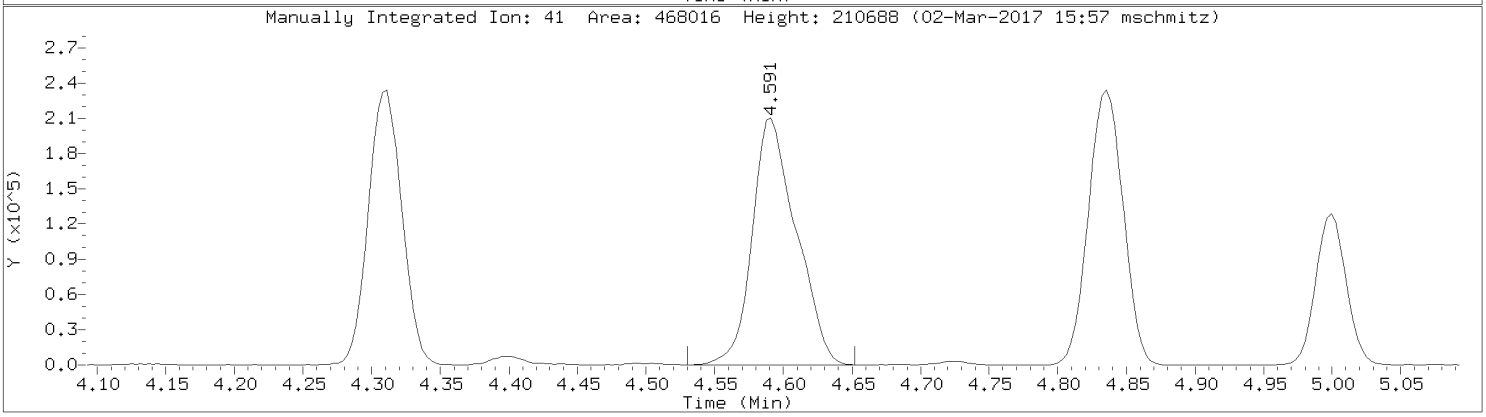
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: n-Hexane
CAS Number: 110-54-3

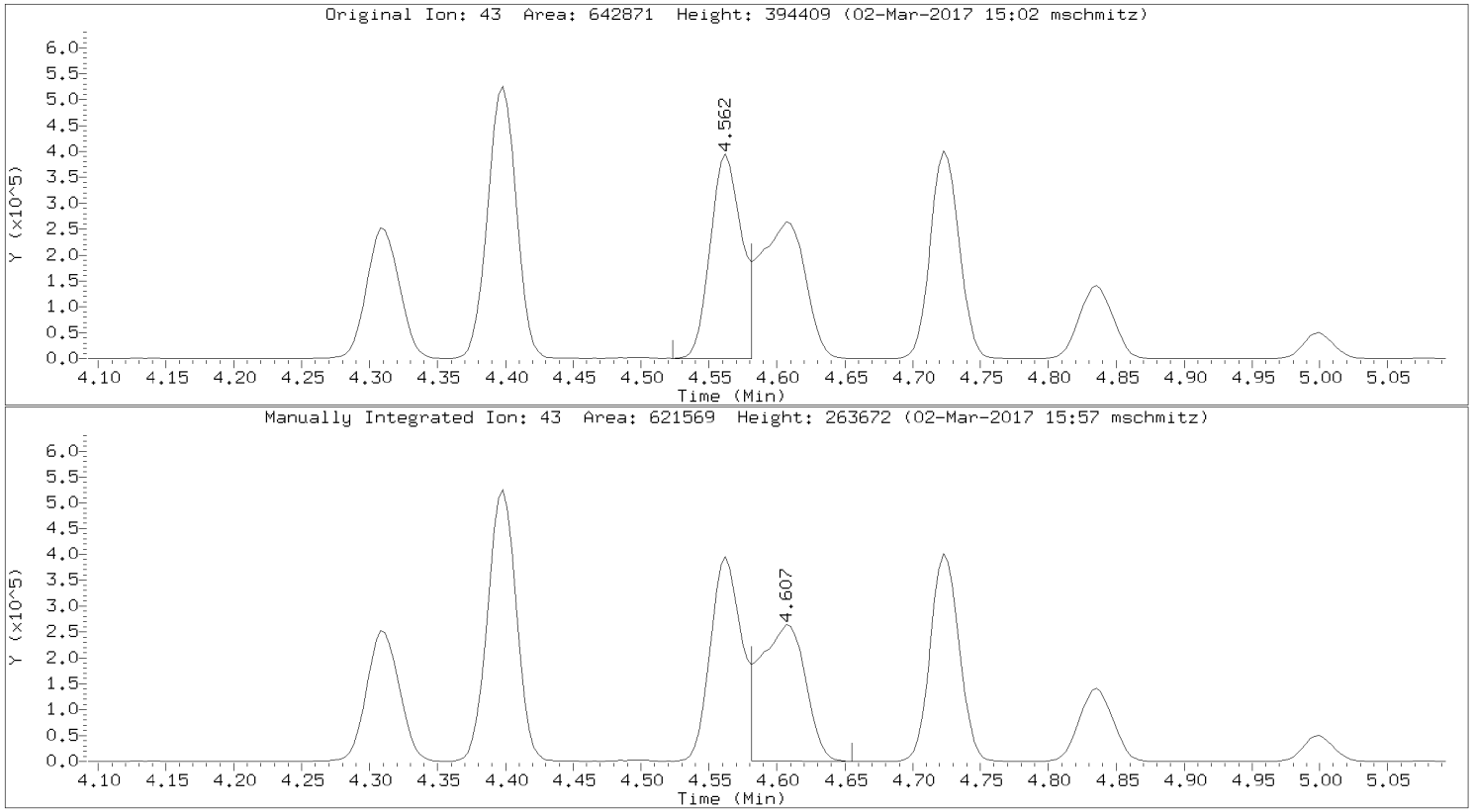






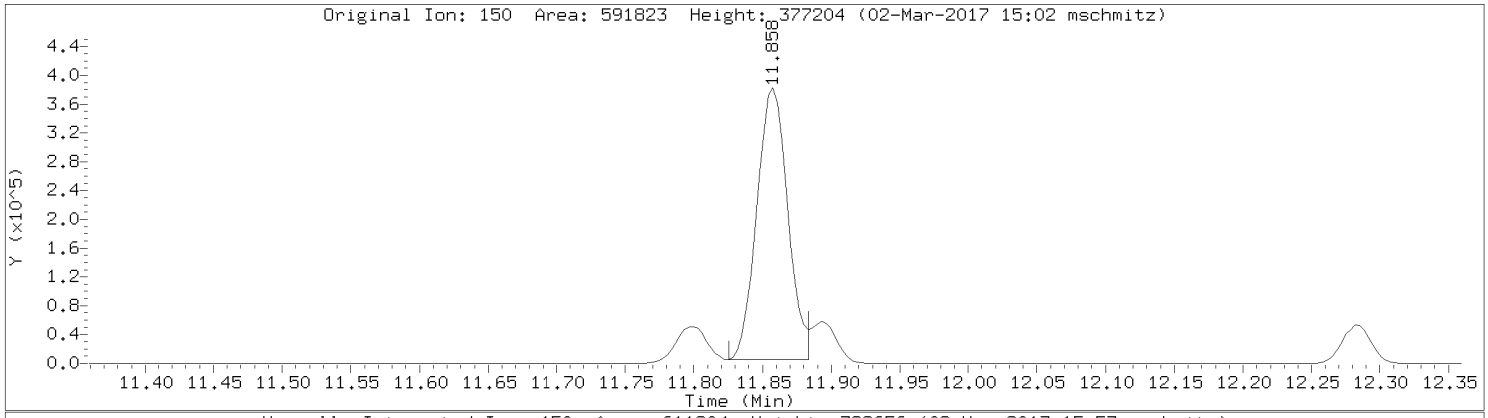


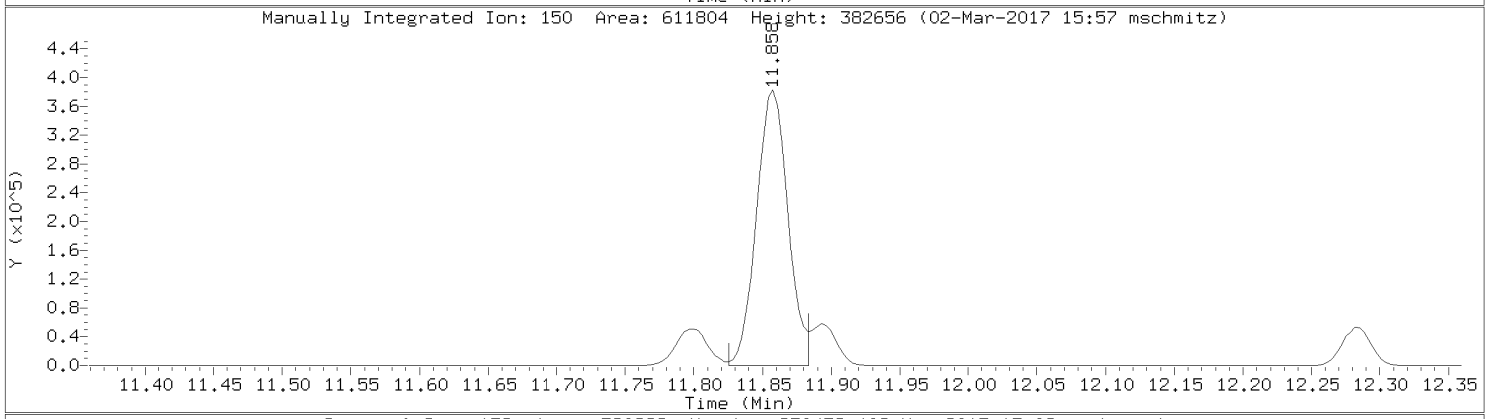
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

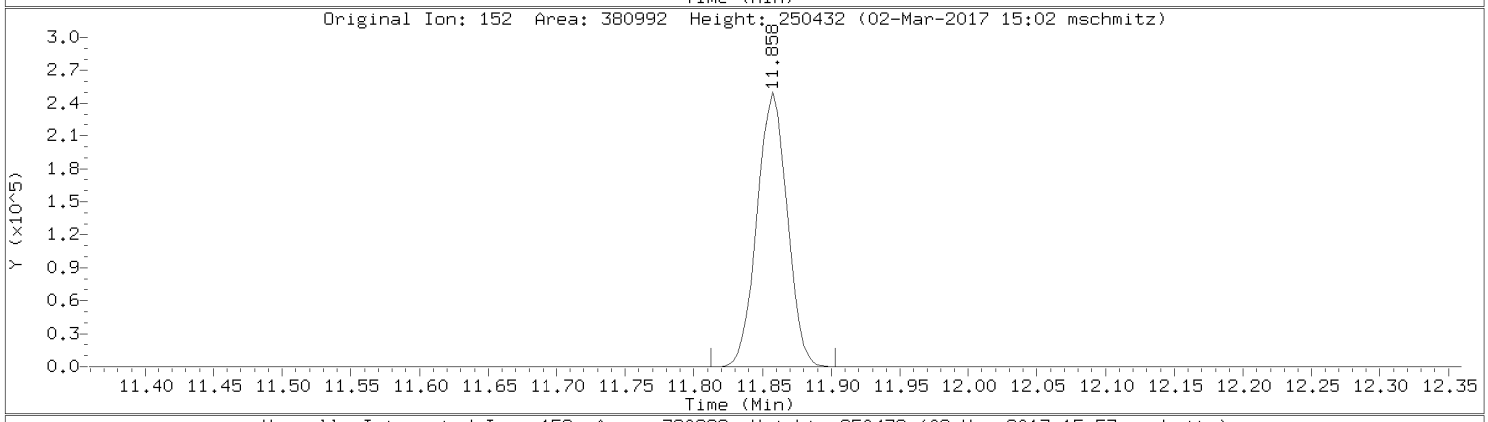


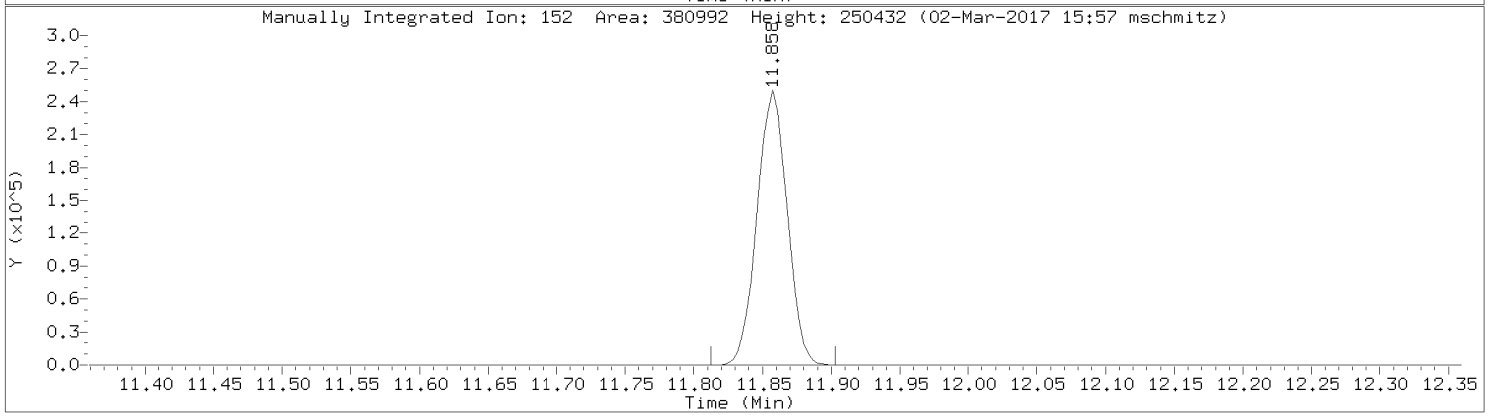
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Lab Smp Id: cal7
Inj Date : 02-MAR-2017 14:08
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:01 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 13:39 Cal File: 06114.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.941	2.941	(0.523)	135575	30.0000	13.9
2	1,1-Difluoroethane	65	3.025	3.025	(0.538)	252667	30.0000	32.7(A)
3	Chlorodifluoromethane	67	3.025	3.025	(0.538)	117390	30.0000	31.8(A)
4	Propylene	41	3.028	3.028	(0.539)	287080	30.0000	30.8(A)
5	Dichlorodifluoromethane	85	3.063	3.063	(0.545)	1170979	30.0000	31.5(A)
6	Chloromethane	50	3.163	3.163	(0.563)	464037	30.0000	30.7(A)
7	Dichlorotetrafluoroethane	85	3.176	3.176	(0.565)	1102542	30.0000	30.2(A)
8	Vinyl chloride	62	3.243	3.243	(0.577)	420720	30.0000	32.2(AM)
9	1,3-Butadiene	54	3.285	3.285	(0.584)	318197	30.0000	33.4(A)
10	Bromomethane	94	3.423	3.423	(0.609)	382319	30.0000	31.6(A)
11	Chloroethane	64	3.478	3.478	(0.619)	190738	30.0000	31.8(A)
12	Ethanol	45	3.555	3.555	(0.632)	775578	150.000	160(A)
13	Vinyl Bromide	106	3.591	3.591	(0.639)	389041	30.0000	31.1
14	Isopentane	43	3.610	3.610	(0.642)	397743	30.0000	30.3(A)
15	Freon 123	83	3.613	3.613	(0.643)	415076	30.0000	30.0(A)
16	Trichlorofluoromethane	101	3.684	3.684	(0.655)	1064749	30.0000	29.5(H)
17	Acrolein	56	3.697	3.697	(0.657)	385253	75.0000	75.3(A)
18	Acetone	43	3.732	3.732	(0.664)	2817023	150.000	135
19	Isopropyl Alcohol	45	3.783	3.783	(0.673)	3112673	150.000	146
20	1,1-Dichloroethene	61	3.922	3.922	(0.698)	640702	30.0000	30.5(A)
21	Acrylonitrile	53	3.941	3.941	(0.701)	741537	75.0000	76.8(A)
22	Freon 113	101	3.960	3.960	(0.704)	753488	30.0000	27.7
23	Methyl Acetate	43	3.973	3.973	(0.707)	855023	30.0000	26.9

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.973	3.973	(0.707)	1867853	75.0000	68.2
	25 Methylene chloride	49	4.015	4.015	(0.714)	1936342	150.000	131(H)
	26 Allyl Chloride	76	4.031	4.031	(0.717)	360233	75.0000	75.2(A)
	27 Carbon Disulfide	76	4.137	4.137	(0.736)	916812	30.0000	33.0(A)
	28 trans-1,2-dichloroethene	96	4.285	4.285	(0.762)	368372	30.0000	31.3(A)
	29 Methyl Tert Butyl Ether	73	4.314	4.314	(0.767)	2364085	75.0000	70.4
	30 Vinyl Acetate	43	4.401	4.401	(0.783)	1072670	30.0000	30.1(A)
	31 1,1-Dichloroethane	63	4.423	4.423	(0.787)	705229	30.0000	30.7(A)
$	32 Hexane-d14(S)	66	4.497	4.497	(0.800)	441746	10.0000	10.5
	33 Methyl Ethyl Ketone	72	4.565	4.565	(0.812)	188259	30.0000	30.1(AQ)
	34 n-Hexane	57	4.591	4.591	(0.816)	609296	30.0000	29.0(M)
	35 Di-isopropyl Ether	45	4.613	4.613	(0.820)	1197546	30.0000	29.4
	36 Ethyl Acetate	43	4.726	4.726	(0.840)	807452	30.0000	29.9
	37 cis-1,2-Dichloroethene	96	4.735	4.735	(0.842)	396164	30.0000	30.1(A)
	38 Ethyl Tert-Butyl Ether	59	4.838	4.838	(0.860)	2803101	75.0000	65.8
	39 Chloroform	83	4.854	4.854	(0.863)	772846	30.0000	28.3
	40 Tetrahydrofuran	42	5.002	5.002	(0.890)	457984	30.0000	31.4(A)
	41 1,1,1-Trichloroethane	97	5.240	5.240	(0.932)	959626	30.0000	29.9
	42 1,2-Dichloroethane	62	5.250	5.250	(0.934)	686322	30.0000	28.2
	43 Benzene	78	5.478	5.478	(0.974)	1244129	30.0000	29.3
	44 Carbon tetrachloride	117	5.494	5.494	(0.977)	984658	30.0000	30.7(A)
	45 Cyclohexane	56	5.497	5.497	(0.978)	581122	30.0000	27.3
	46 Tert Amyl Methyl Ether	73	5.613	5.613	(0.998)	1221003	30.0000	30.1(A)
*	47 1,4-Difluorobenzene	114	5.623	5.623	(1.000)	1316191	10.0000	
	48 2,2,4-Trimethylpentane	57	5.783	5.783	(1.029)	4427297	75.0000	67.3
	49 Heptane	43	5.899	5.899	(1.049)	731532	30.0000	30.8(A)
	50 1,2-Dichloropropane	63	5.973	5.973	(1.062)	464325	30.0000	30.2(A)
	51 Trichloroethene	130	5.996	5.996	(1.066)	657281	30.0000	29.7
	52 Methyl methacrylate	69	6.053	6.053	(1.077)	459040	30.0000	31.9(A)
	53 1,4-Dioxane	88	6.073	6.073	(1.080)	310720	30.0000	31.3(A)
	54 Bromodichloromethane	83	6.095	6.095	(1.084)	982419	30.0000	31.4(A)
	55 Methylcyclohexane	98	6.439	6.439	(1.145)	381479	30.0000	30.1(A)
	56 Methyl Isobutyl Ketone	43	6.539	6.539	(1.163)	2420724	75.0000	74.8
	57 cis-1,3-Dichloropropene	75	6.597	6.597	(1.173)	802416	30.0000	30.2(A)
	58 trans-1,3-Dichloropropene	75	6.992	6.992	(1.244)	767727	30.0000	30.1(A)
$	59 Toluene-d8 (S)	98	7.082	7.082	(1.260)	1240591	10.0000	10.5
	60 1,1,2-Trichloroethane	97	7.153	7.153	(1.272)	516107	30.0000	29.2
	61 Toluene	91	7.160	7.160	(1.273)	1527121	30.0000	28.7
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.853)	2256388	75.0000	73.3
	63 n-Octane	43	7.590	7.590	(0.878)	965346	30.0000	29.0
	64 Dibromochloromethane	129	7.687	7.687	(0.889)	1094955	30.0000	28.4
	65 1,2-Dibromoethane	107	7.915	7.915	(0.915)	932546	30.0000	29.6
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	904899	30.0000	26.7
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	974838	10.0000	
	68 Chlorobenzene	112	8.693	8.693	(1.005)	1410174	30.0000	29.2
	69 Ethyl Benzene	91	8.938	8.938	(1.033)	2168046	30.0000	30.2(A)
	70 m&p-Xylene	91	9.092	9.092	(1.051)	3183004	60.0000	56.6
	71 n-Nonane	43	9.478	9.478	(1.096)	847174	30.0000	29.2
	72 Bromoform	173	9.487	9.487	(1.097)	1008290	30.0000	30.1(A)
	73 Styrene	104	9.513	9.513	(1.100)	1314898	30.0000	30.0(A)
	74 o-Xylene	91	9.587	9.587	(1.109)	1705098	30.0000	29.8
	75 1,1,2,2-Tetrachloroethane	83	9.835	9.835	(1.137)	996936	30.0000	31.6(A)
	76 Isopropylbenzene	105	10.166	10.166	(1.175)	2302433	30.0000	28.4
	77 N-Propylbenzene	91	10.745	10.745	(1.242)	2624651	30.0000	28.6

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.918	10.918	(1.262)	2322755	30.0000	30.0(A)
79	1,3,5-Trimethylbenzene	105	11.005	11.005	(1.273)	1957096	30.0000	28.5
80	n-Decane	57	11.388	11.388	(2.025)	1038909	30.0000	30.4(A)
81	Tert-Butyl Benzene	119	11.503	11.503	(1.330)	1928094	30.0000	29.8
82	1,2,4-Trimethylbenzene	105	11.519	11.519	(1.332)	1735296	30.0000	30.0
83	1,3-Dichlorobenzene	146	11.799	11.799	(1.364)	1144352	30.0000	27.8
84	Sec- Butylbenzene	105	11.815	11.815	(1.366)	2402689	30.0000	29.6
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.371)	598482	10.0000	11.1
86	Benzyl Chloride	91	11.873	11.873	(1.373)	1343950	30.0000	30.0
87	1,4-Dichlorobenzene	146	11.899	11.899	(1.376)	1203116	30.0000	31.7(A)
88	p-Isopropyltoluene	119	11.995	11.995	(1.387)	2198943	30.0000	28.4
89	1,2,3-Trimethylbenzene	105	12.040	12.040	(1.392)	1791106	30.0000	31.3(A)
90	1,2-Dichlorobenzene	146	12.285	12.285	(1.420)	1131959	30.0000	30.0(A)
91	N-Butylbenzene	91	12.465	12.465	(1.441)	1755538	30.0000	29.6
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	467876	30.0000	29.7
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.623)	553071	30.0000	29.9
94	Naphthalene	128	14.169	14.169	(1.638)	1218782	30.0000	30.2(A)
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	510994	30.0000	30.2(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06115.D
Lab Smp Id: cal7
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

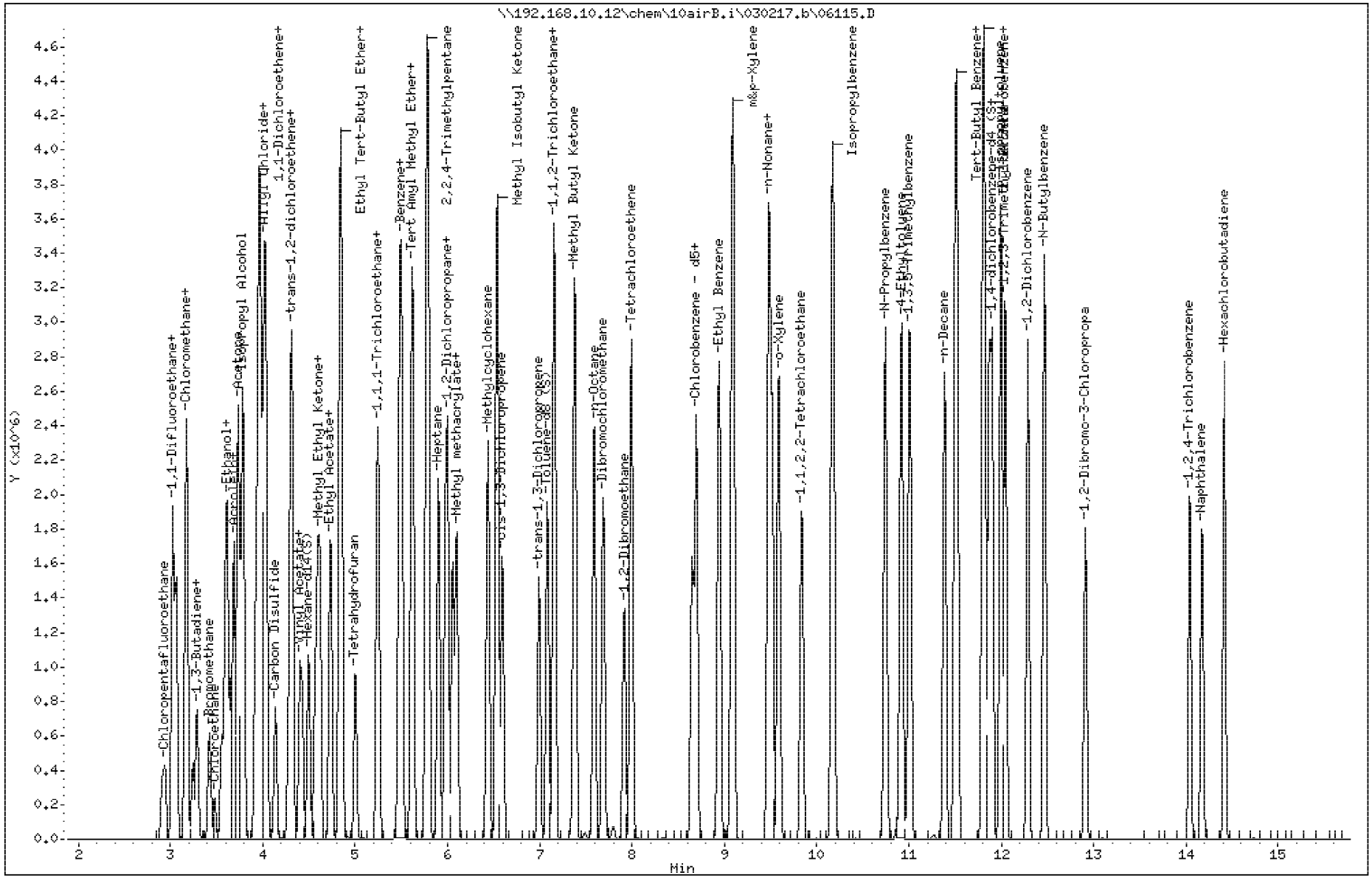
Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1316191	-6.92
67 Chlorobenzene - d	951026	570616	1331436	974838	2.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

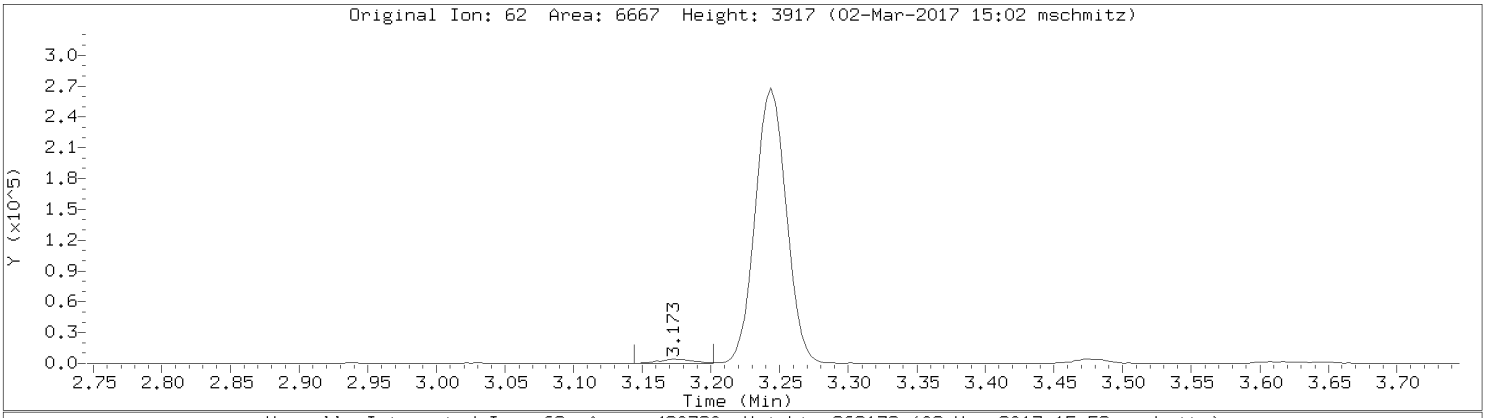
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

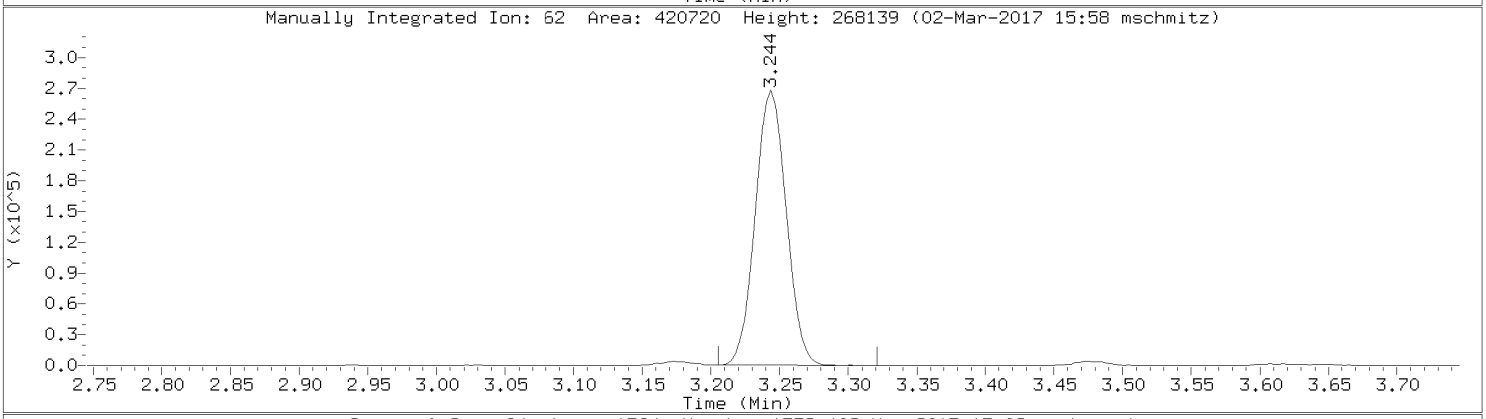
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Date : 02-MAR-2017 14:08
Client ID:
Instrument: 10airB.i
Sample Info:
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

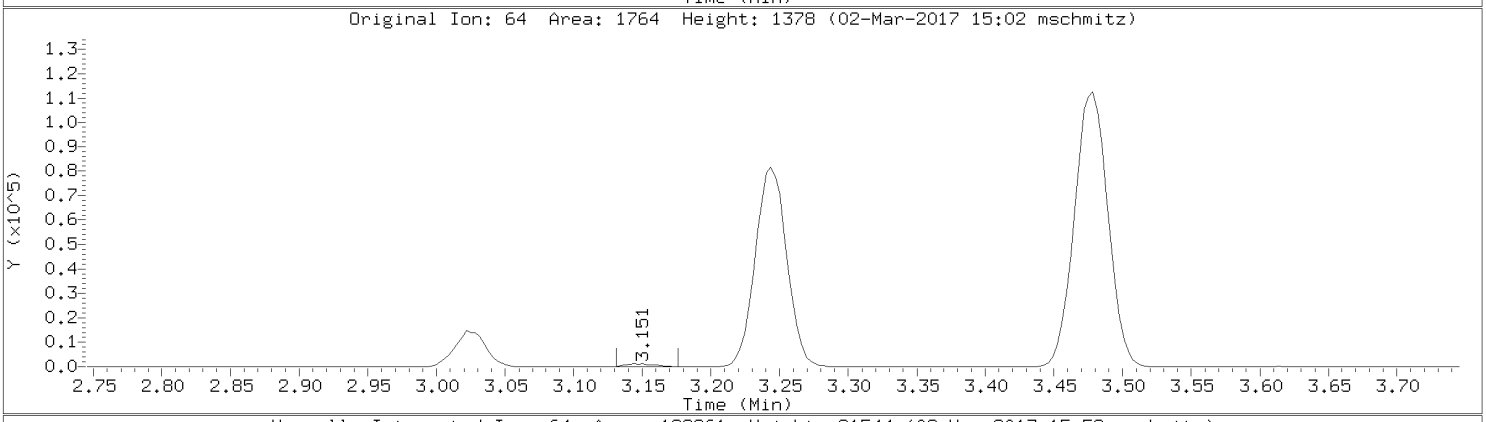


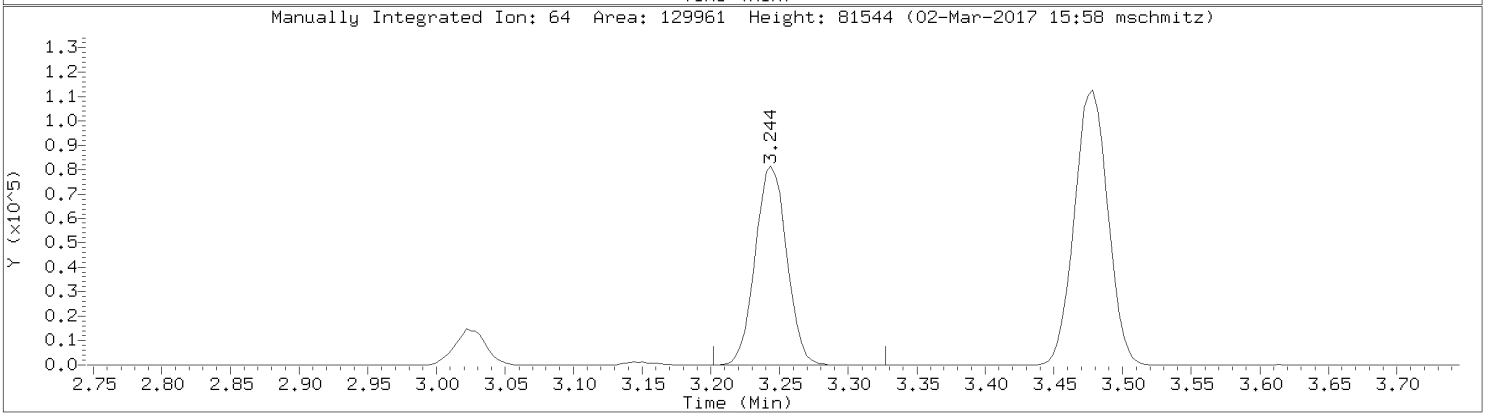
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06115.D
Injection Date: 02-MAR-2017 14:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: Vinyl chloride
CAS Number: 75-01-4



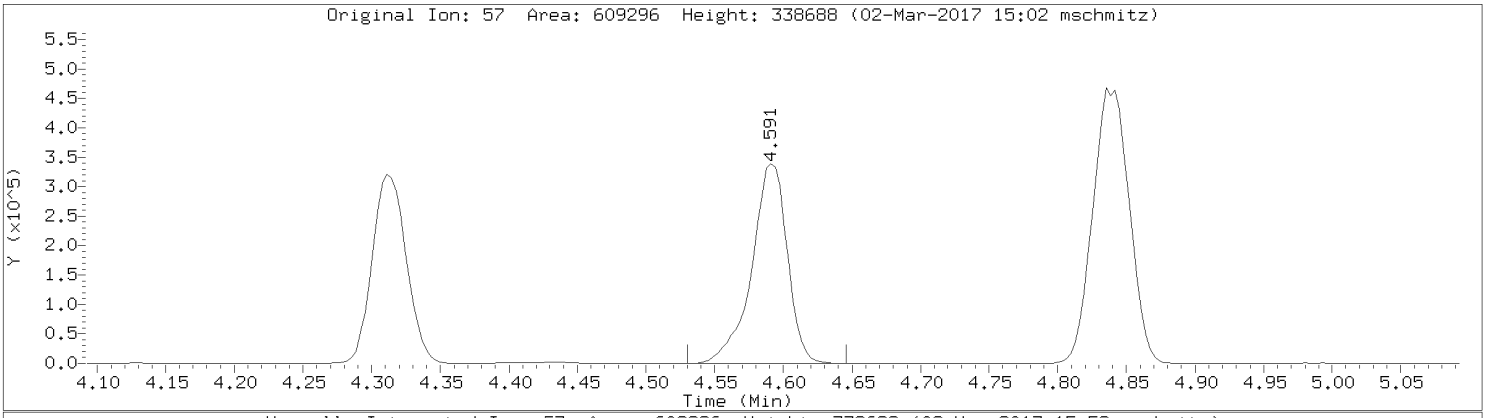


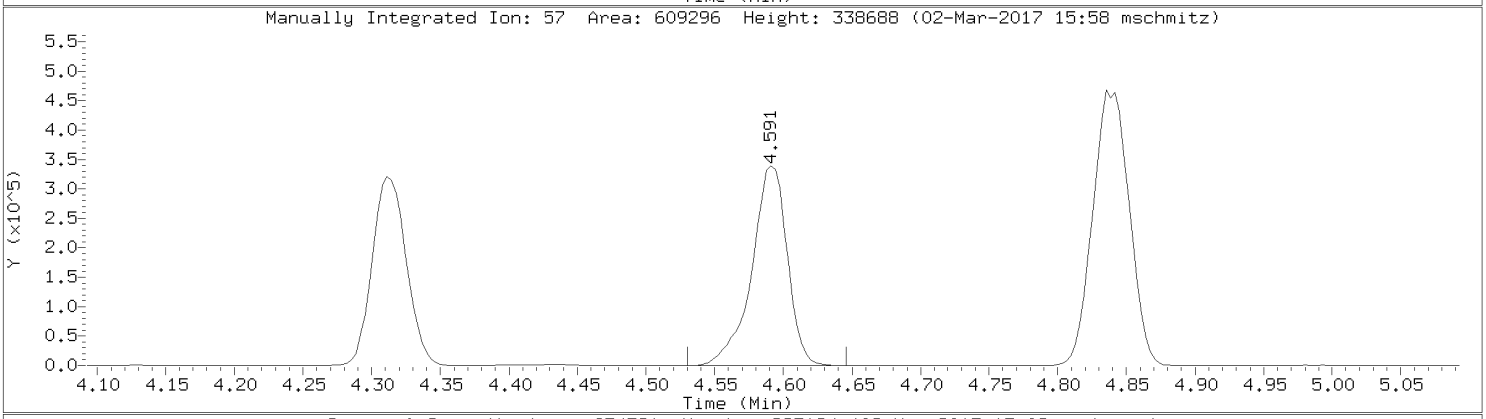


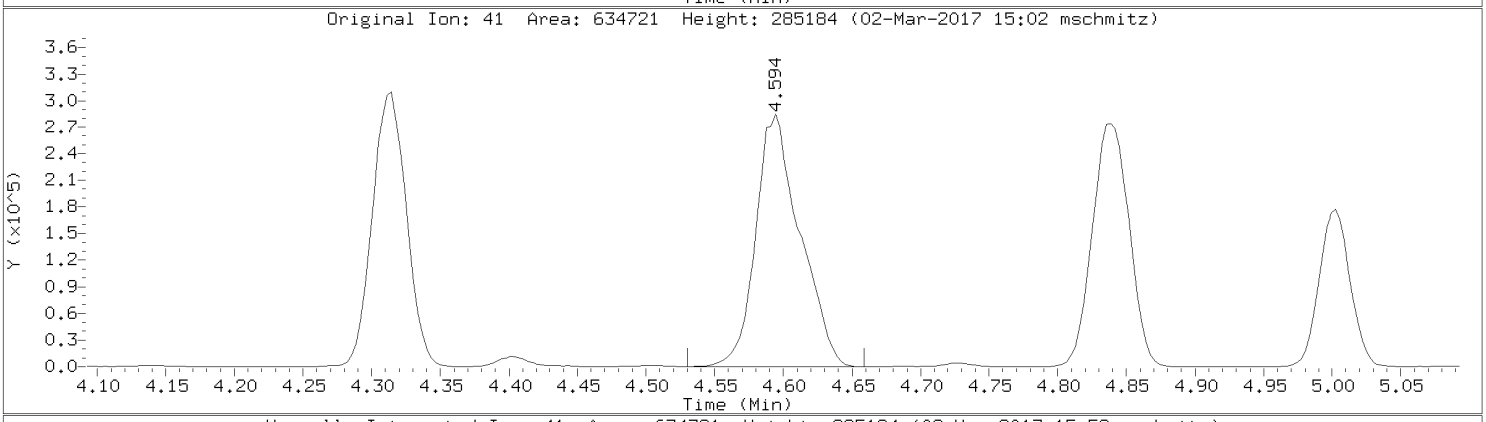


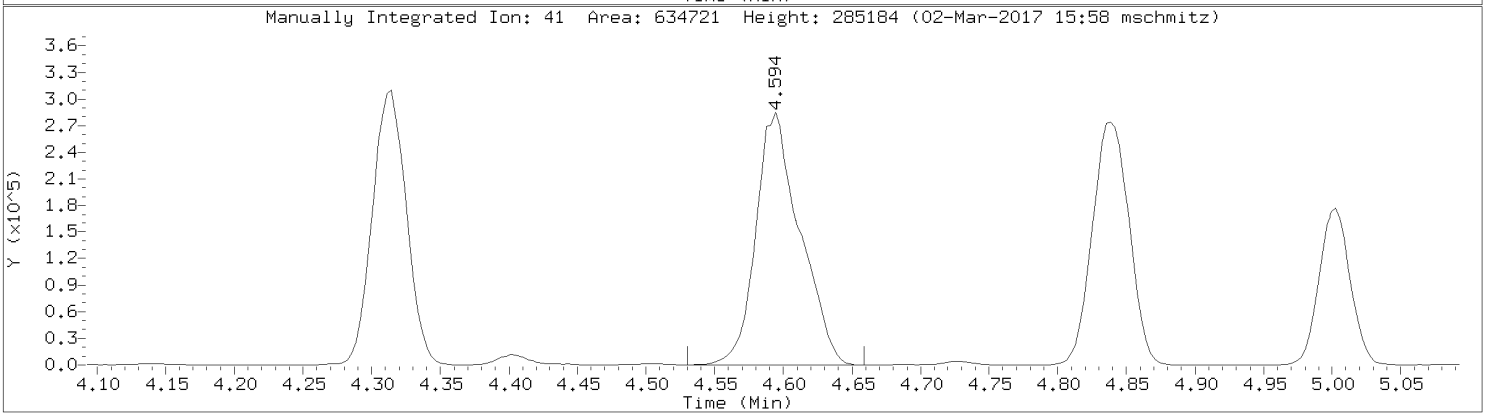
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06115.D
Injection Date: 02-MAR-2017 14:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: n-Hexane
CAS Number: 110-54-3

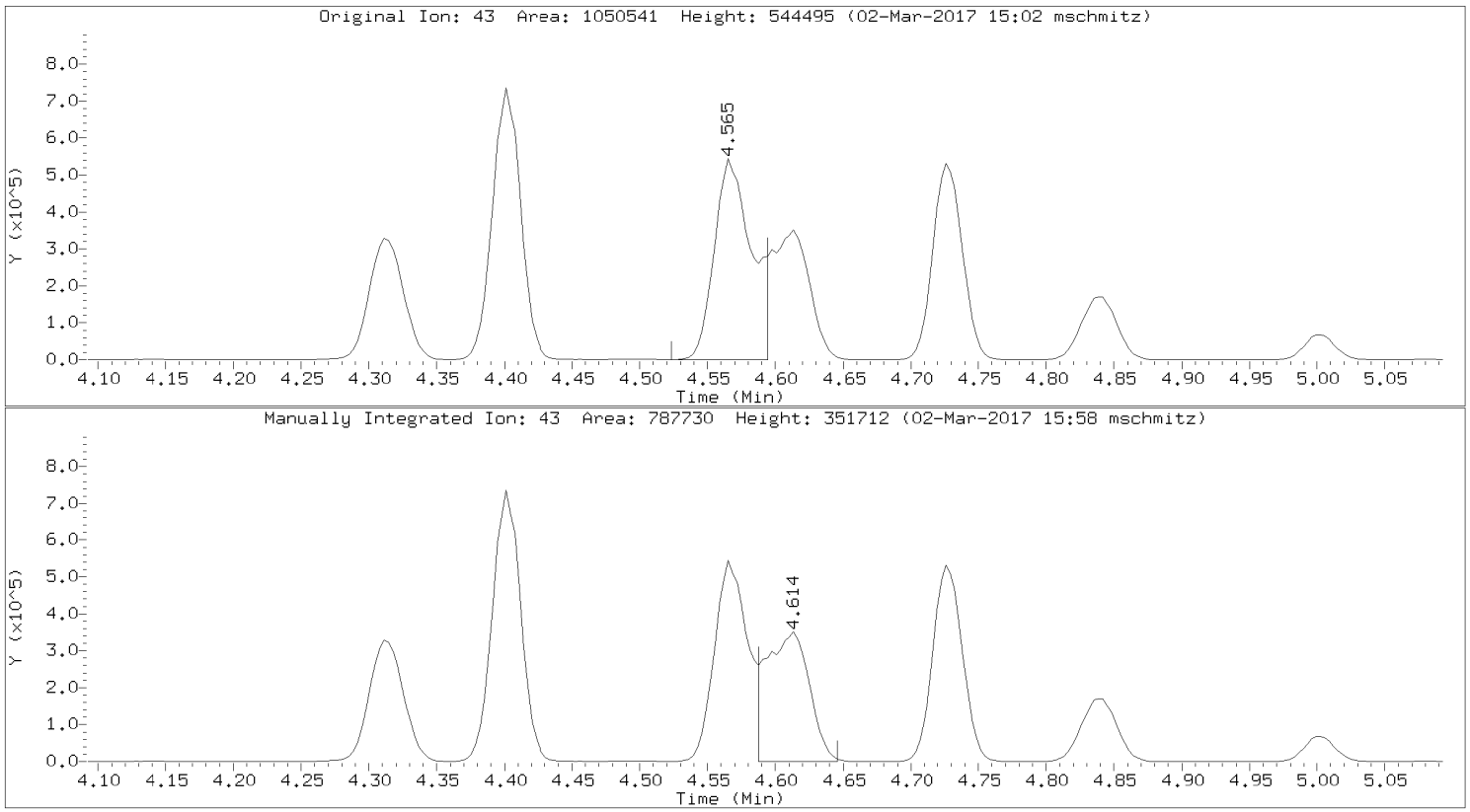








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06115.D
Injection Date: 02-MAR-2017 14:08
Instrument: 10airB.i
Lab Sample ID: cal7



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Lab Smp Id: ICV
Inj Date : 02-MAR-2017 15:02
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:01 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.941	(0.525)	2329	0.34054	0.341
2	1,1-Difluoroethane	65	3.015	3.025	(0.537)	1500	0.18027	0.180(QM)
3	Chlorodifluoromethane	67	3.031	3.025	(0.540)	40126	10.0617	10.1(Q)
4	Propylene	41	3.034	3.028	(0.541)	95911	9.07793	9.08
5	Dichlorodifluoromethane	85	3.066	3.063	(0.546)	400235	9.92461	9.92
6	Chloromethane	50	3.160	3.163	(0.563)	156772	9.61397	9.61
7	Dichlorotetrafluoroethane	85	3.169	3.176	(0.565)	371174	9.42006	9.42
8	Vinyl chloride	62	3.237	3.243	(0.577)	139316	9.88996	9.89
9	1,3-Butadiene	54	3.282	3.285	(0.585)	102070	9.94894	9.95
10	Bromomethane	94	3.417	3.423	(0.609)	122618	9.40917	9.41
11	Chloroethane	64	3.468	3.478	(0.618)	63153	9.74957	9.75
12	Ethanol	45	3.542	3.555	(0.631)	60462	11.5940	11.6
13	Vinyl Bromide	106	3.584	3.591	(0.639)	136378	10.1033	10.1
14	Isopentane	43	3.606	3.610	(0.643)	133832	9.35317	9.35
15	Freon 123	83	3.616	3.613	(0.644)	5394	0.28052	0.281
16	Trichlorofluoromethane	101	3.677	3.684	(0.655)	364964	9.37969	9.38
17	Acrolein	56	3.677	3.697	(0.655)	49388	9.57669	9.58
18	Acetone	43	3.719	3.732	(0.663)	235507	10.4583	10.5
19	Isopropyl Alcohol	45	3.761	3.783	(0.670)	273721	11.9185	11.9
20	1,1-Dichloroethene	61	3.912	3.922	(0.697)	222206	9.81933	9.82
21	Acrylonitrile	53	3.918	3.941	(0.698)	113870	10.9434	10.9
22	Freon 113	101	3.954	3.960	(0.704)	285795	9.72658	9.73
23	Methyl Acetate	43	3.951	3.973	(0.704)	57904	1.68890	1.69(Q)

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
24	Tert Butyl Alcohol (TBA)	59	3.951	3.973	(0.704)	348162	11.7929	11.8
25	Methylene chloride	49	4.002	4.015	(0.713)	176972	11.1346	11.1
26	Allyl Chloride	76	4.015	4.031	(0.715)	60279	10.7959	10.8
27	Carbon Disulfide	76	4.127	4.137	(0.735)	368150	12.2991	12.3
28	trans-1,2-dichloroethene	96	4.272	4.285	(0.761)	144755	11.4008	11.4
29	Methyl Tert Butyl Ether	73	4.307	4.314	(0.767)	392539	10.8451	10.8
30	Vinyl Acetate	43	4.385	4.401	(0.781)	391953	10.3344	10.3
31	1,1-Dichloroethane	63	4.404	4.423	(0.785)	254084	10.2735	10.3
$ 32	Hexane-d14(S)	66	4.491	4.497	(0.800)	463227	10.2588	10.3
33	Methyl Ethyl Ketone	72	4.555	4.565	(0.812)	65859	9.81699	9.82(QM)
34	n-Hexane	57	4.584	4.591	(0.817)	229548	10.1426	10.1
35	Di-isopropyl Ether	45	4.603	4.613	(0.820)	430367	9.80507	9.81
36	Ethyl Acetate	43	4.716	4.726	(0.840)	301709	10.3581	10.4
37	cis-1,2-Dichloroethene	96	4.722	4.735	(0.841)	148653	10.4788	10.5
38	Ethyl Tert-Butyl Ether	59	4.828	4.838	(0.860)	511155	11.1226	11.1
39	Chloroform	83	4.841	4.854	(0.863)	307382	10.4542	10.5
40	Tetrahydrofuran	42	4.995	5.002	(0.890)	158403	10.0789	10.1
41	1,1,1-Trichloroethane	97	5.227	5.240	(0.931)	341572	9.87469	9.87
42	1,2-Dichloroethane	62	5.237	5.250	(0.933)	257885	9.82778	9.83
43	Benzene	78	5.465	5.478	(0.974)	459947	10.0486	10.0
44	Carbon tetrachloride	117	5.484	5.494	(0.977)	367551	10.6322	10.6
45	Cyclohexane	56	5.491	5.497	(0.978)	223245	9.74303	9.74
46	Tert Amyl Methyl Ether	73	5.606	5.613	(0.999)	444147	9.93423	9.93
* 47	1,4-Difluorobenzene	114	5.613	5.623	(1.000)	1419261	10.0000	
48	2,2,4-Trimethylpentane	57	5.767	5.783	(1.027)	777253	10.9632	11.0
49	Heptane	43	5.893	5.899	(1.050)	255573	9.99267	9.99
50	1,2-Dichloropropane	63	5.967	5.973	(1.063)	168288	10.1502	10.2
51	Trichloroethene	130	5.989	5.996	(1.067)	236200	9.90513	9.91
52	Methyl methacrylate	69	6.047	6.053	(1.077)	160590	10.3539	10.4
53	1,4-Dioxane	88	6.066	6.073	(1.081)	112170	10.4891	10.5
54	Bromodichloromethane	83	6.085	6.095	(1.084)	340477	10.0765	10.1
55	Methylcyclohexane	98	6.430	6.439	(1.145)	130960	10.1301	10.1
56	Methyl Isobutyl Ketone	43	6.532	6.539	(1.164)	415082	11.8901	11.9
57	cis-1,3-Dichloropropene	75	6.587	6.597	(1.174)	274586	9.64372	9.64
58	trans-1,3-Dichloropropene	75	6.986	6.992	(1.245)	258132	9.85587	9.86
$ 59	Toluene-d8 (S)	98	7.079	7.082	(1.261)	1220065	9.60471	9.60
60	1,1,2-Trichloroethane	97	7.143	7.153	(1.273)	188292	9.89178	9.89
61	Toluene	91	7.150	7.160	(1.274)	568012	9.90919	9.91
62	Methyl Butyl Ketone	43	7.372	7.378	(0.853)	399551	13.3664	13.4
63	n-Octane	43	7.584	7.590	(0.877)	14523	0.44862	0.449
64	Dibromochloromethane	129	7.674	7.687	(0.888)	377778	10.1252	10.1
65	1,2-Dibromoethane	107	7.909	7.915	(0.915)	333612	10.9211	10.9
66	Tetrachloroethene	166	7.986	7.989	(0.924)	321706	9.78889	9.79
* 67	Chlorobenzene - d5	117	8.645	8.648	(1.000)	946444	10.0000	
68	Chlorobenzene	112	8.687	8.693	(1.005)	474913	10.1171	10.1
69	Ethyl Benzene	91	8.934	8.938	(1.033)	783844	11.2603	11.3
70	m&p-Xylene	91	9.082	9.092	(1.051)	667151	12.2106	12.2
71	n-Nonane	43	9.468	9.478	(1.095)	21533	0.76411	0.764
72	Bromoform	173	9.478	9.487	(1.096)	370931	10.3238	10.3
73	Styrene	104	9.507	9.513	(1.100)	474842	10.2843	10.3
74	o-Xylene	91	9.577	9.587	(1.108)	622148	11.1927	11.2
75	1,1,2,2-Tetrachloroethane	83	9.828	9.835	(1.137)	356403	11.6361	11.6
76	Isopropylbenzene	105	10.162	10.166	(1.176)	842597	10.7105	10.7
77	N-Propylbenzene	91	10.738	10.745	(1.242)	963013	10.8174	10.8

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.918	(1.262)	804135	9.94426	9.94
79	1,3,5-Trimethylbenzene	105	10.998	11.005	(1.272)	727707	10.9129	10.9
80	n-Decane	57	11.378	11.388	(2.027)	34361	1.16222	1.16
81	Tert-Butyl Benzene	119	11.497	11.503	(1.330)	726552	11.5608	11.6
82	1,2,4-Trimethylbenzene	105	11.510	11.519	(1.331)	685255	12.1884	12.2
83	1,3-Dichlorobenzene	146	11.796	11.799	(1.364)	434730	10.8817	10.9
84	Sec- Butylbenzene	105	11.809	11.815	(1.366)	947425	12.0317	12.0
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.857	(1.371)	591190	11.3393	11.3(M)
86	Benzyl Chloride	91	11.863	11.873	(1.372)	412584	9.69016	9.69
87	1,4-Dichlorobenzene	146	11.889	11.899	(1.375)	429188	11.6531	11.7
88	p-Isopropyltoluene	119	11.989	11.995	(1.387)	793341	10.5529	10.6
89	1,2,3-Trimethylbenzene	105	12.034	12.040	(1.392)	668386	12.0415	12.0
90	1,2-Dichlorobenzene	146	12.281	12.285	(1.421)	398788	10.2703	10.3
91	N-Butylbenzene	91	12.461	12.465	(1.441)	638861	11.0719	11.1
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.493)	32738	2.32488	2.32
93	1,2,4-Trichlorobenzene	180	14.034	14.037	(1.623)	156600	9.79142	9.79
94	Naphthalene	128	14.166	14.169	(1.639)	429702	11.1999	11.2
95	Hexachlorobutadiene	225	14.410	14.413	(1.667)	188041	11.4497	11.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06117.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

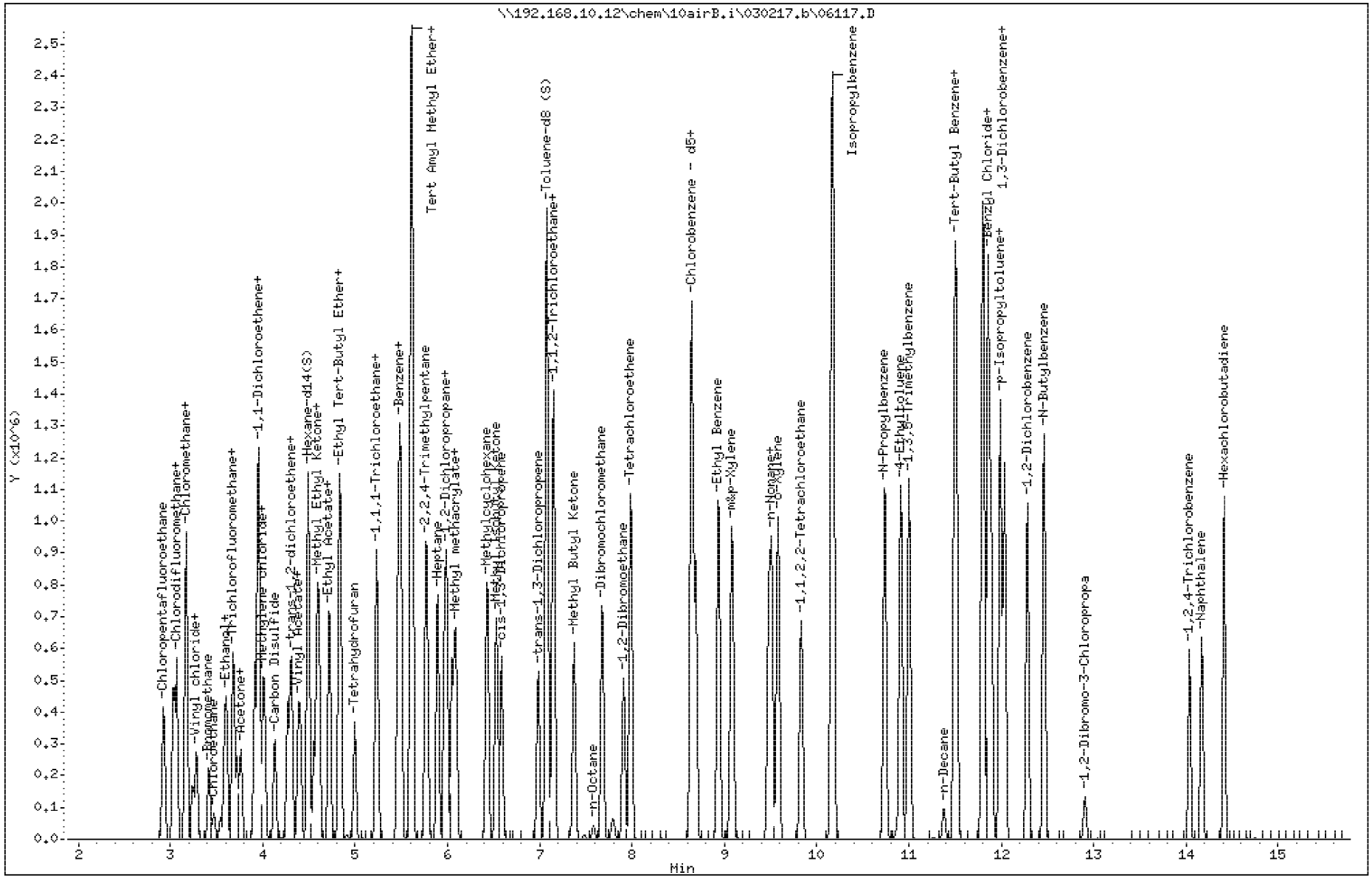
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1419261	0.36
67 Chlorobenzene - d	951026	570616	1331436	946444	-0.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

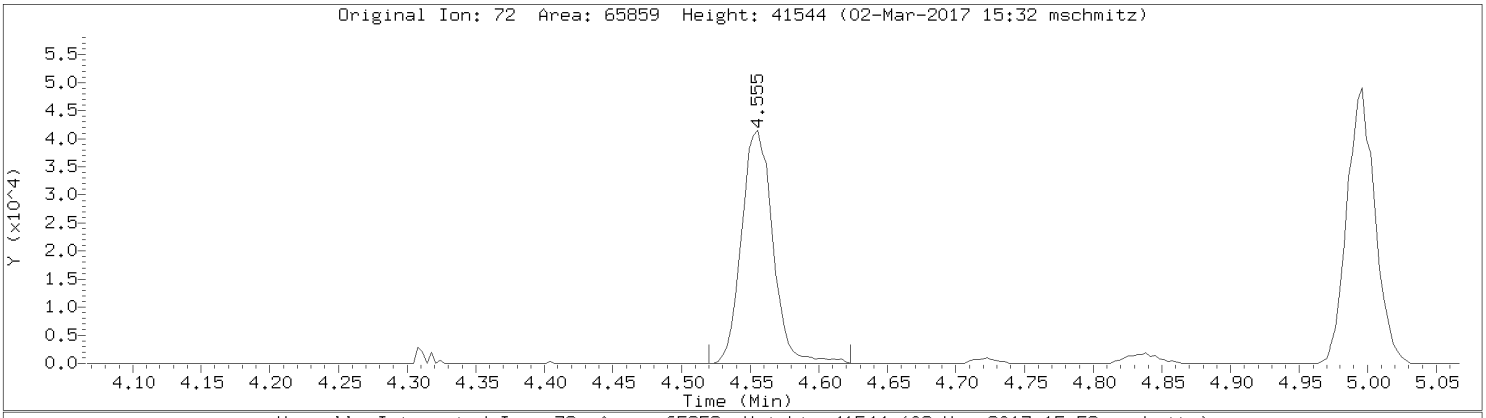
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Date : 02-MAR-2017 15:02
Client ID:
Sample Info:

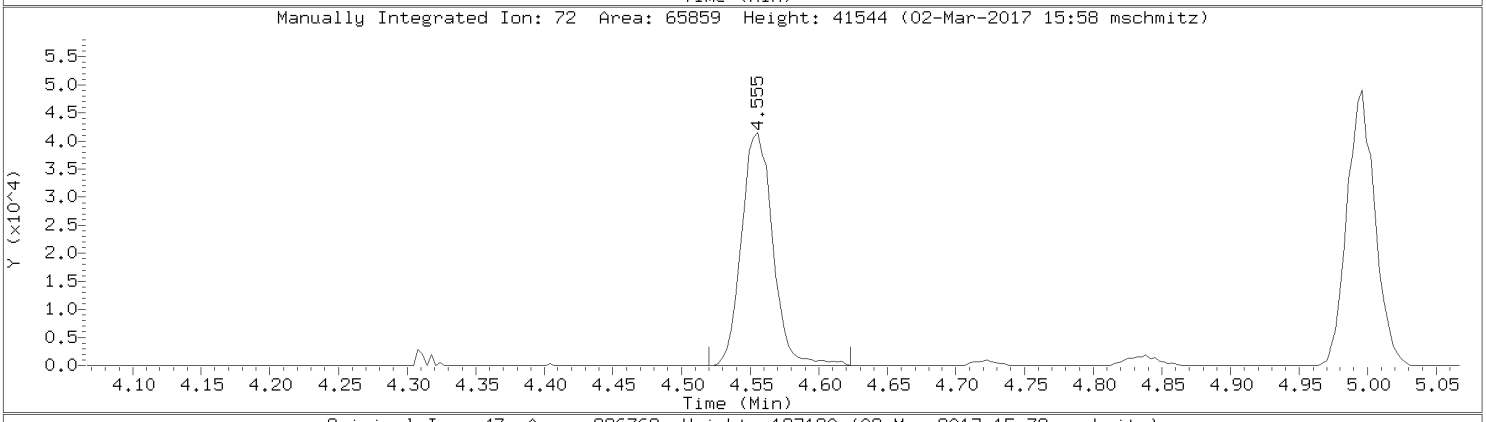
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

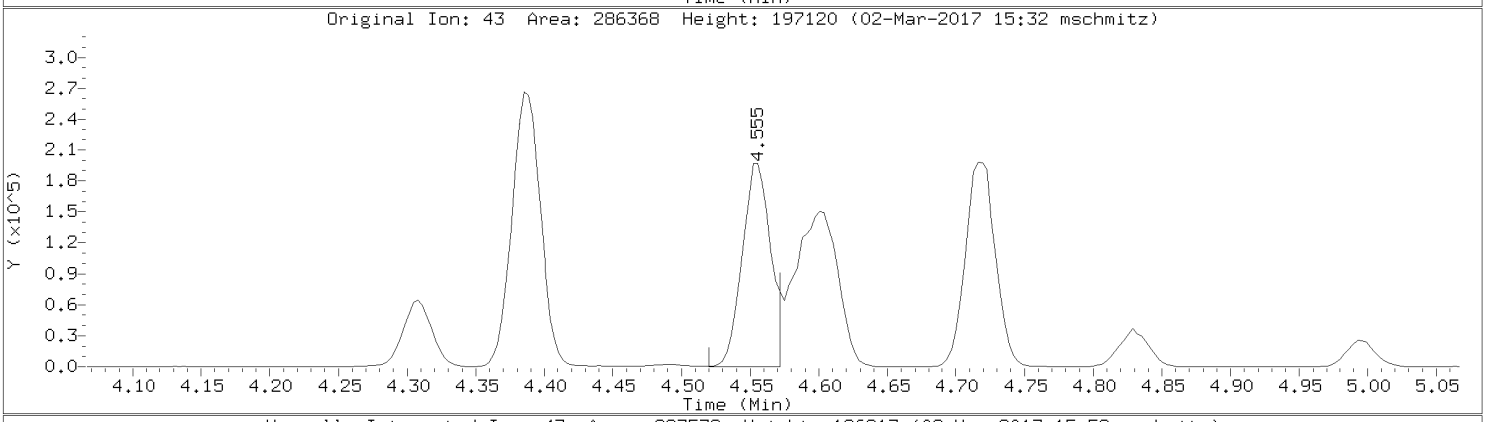


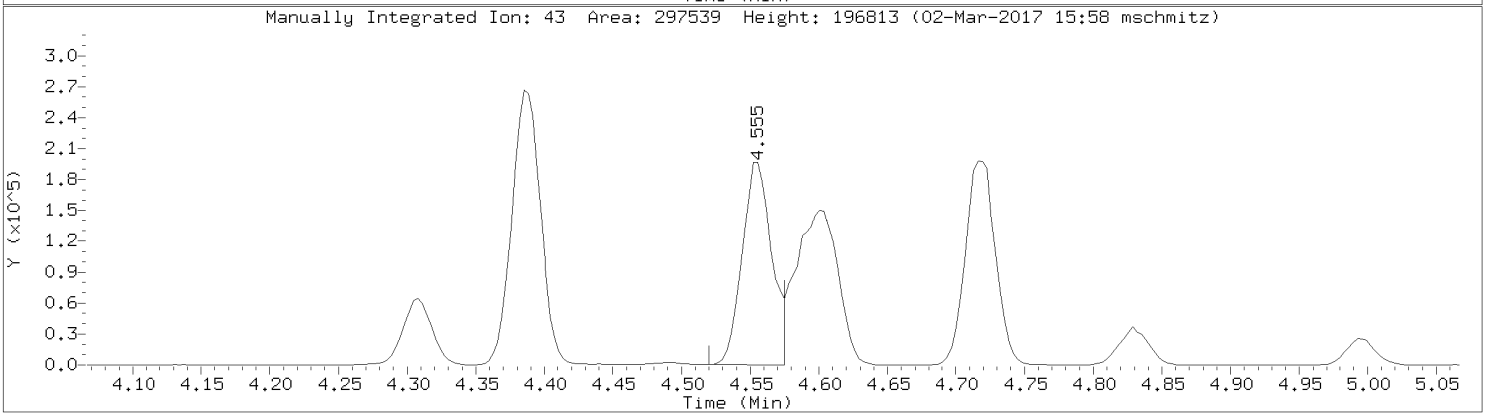
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



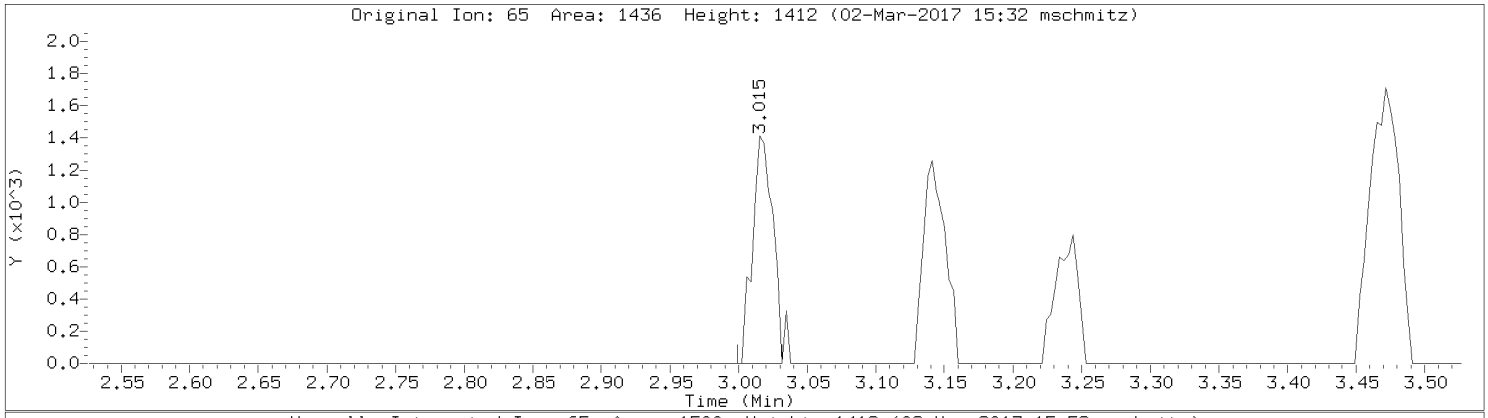


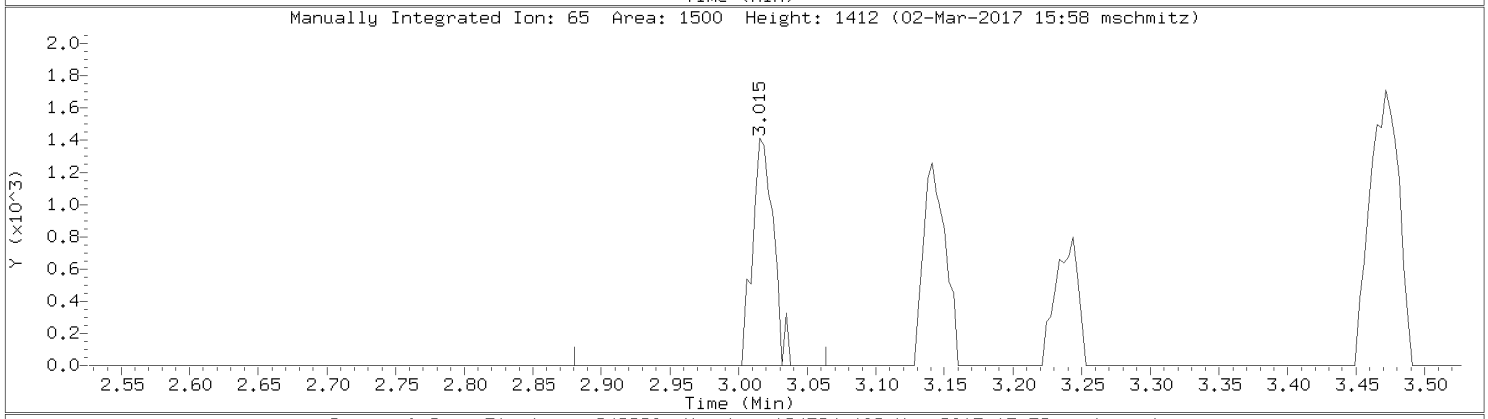


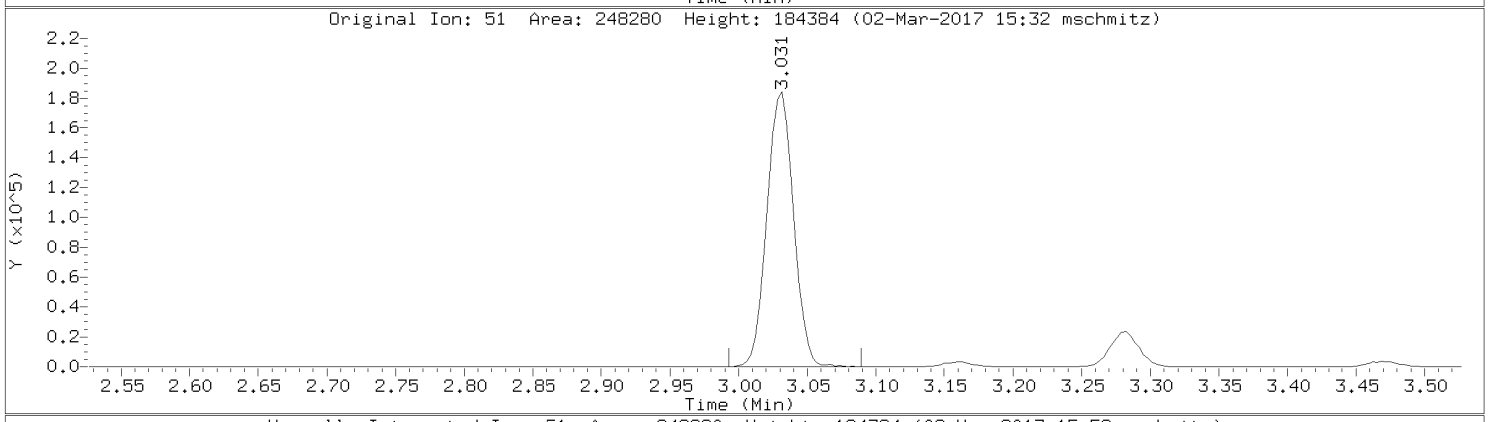


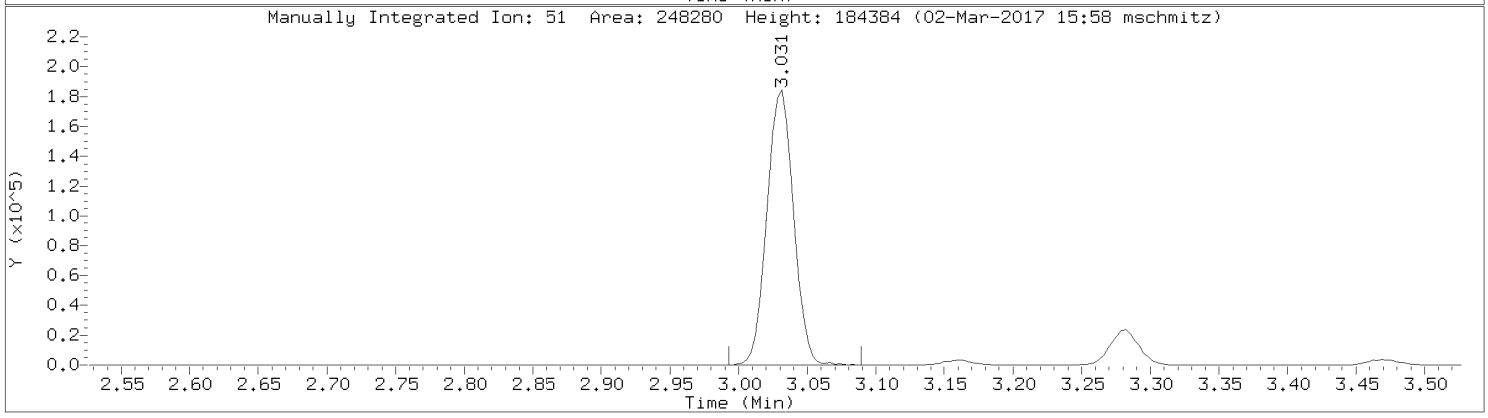
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

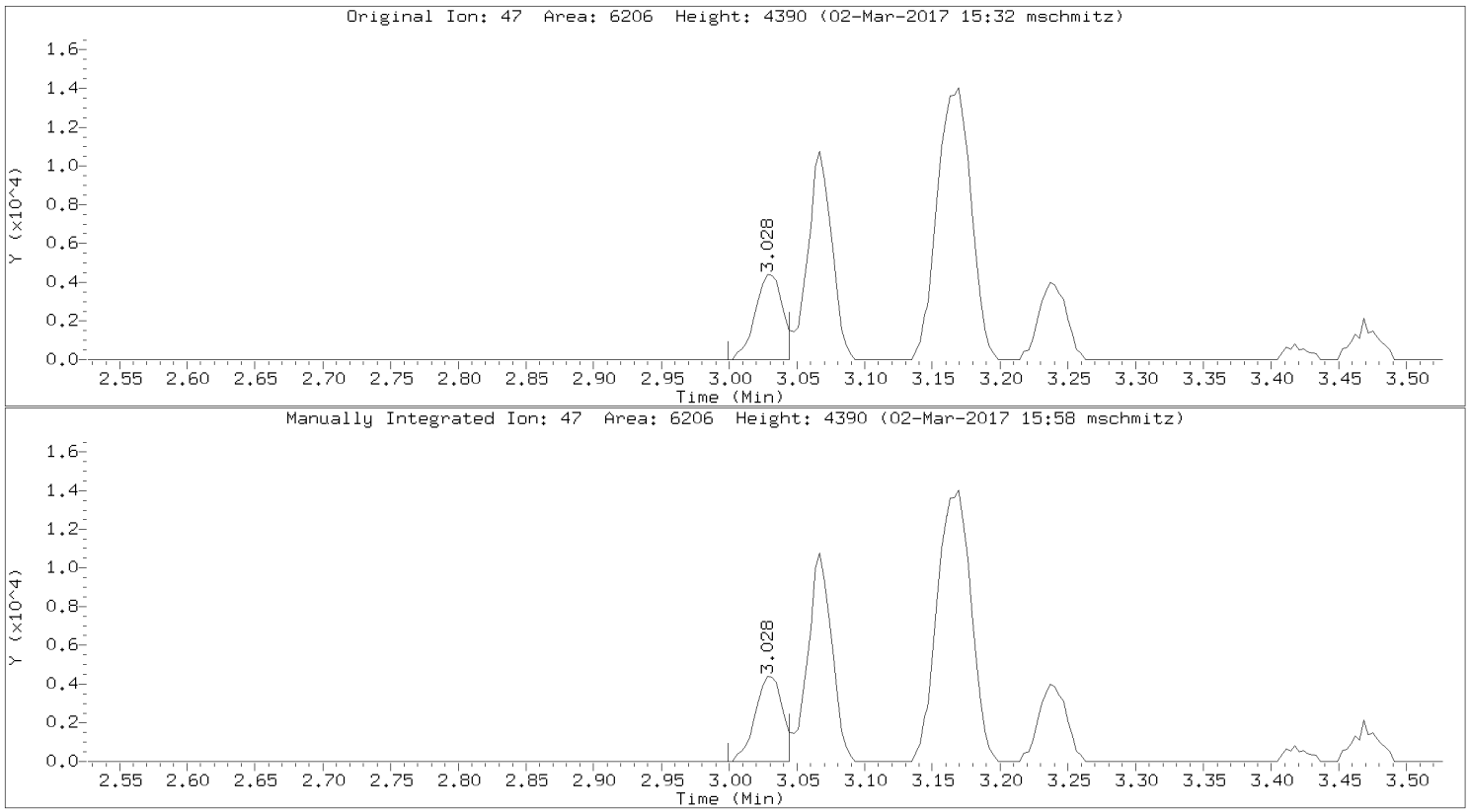






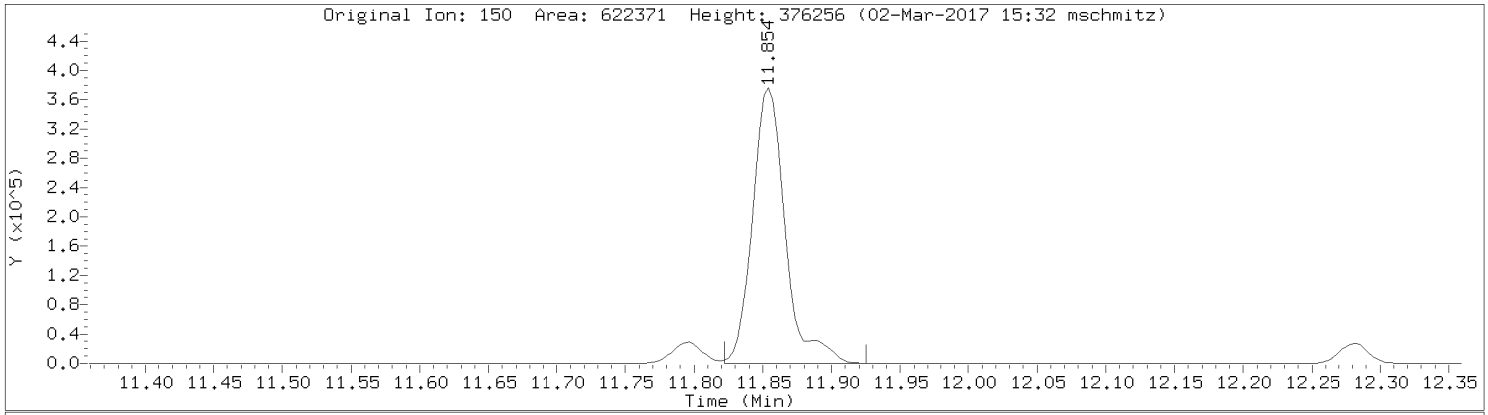


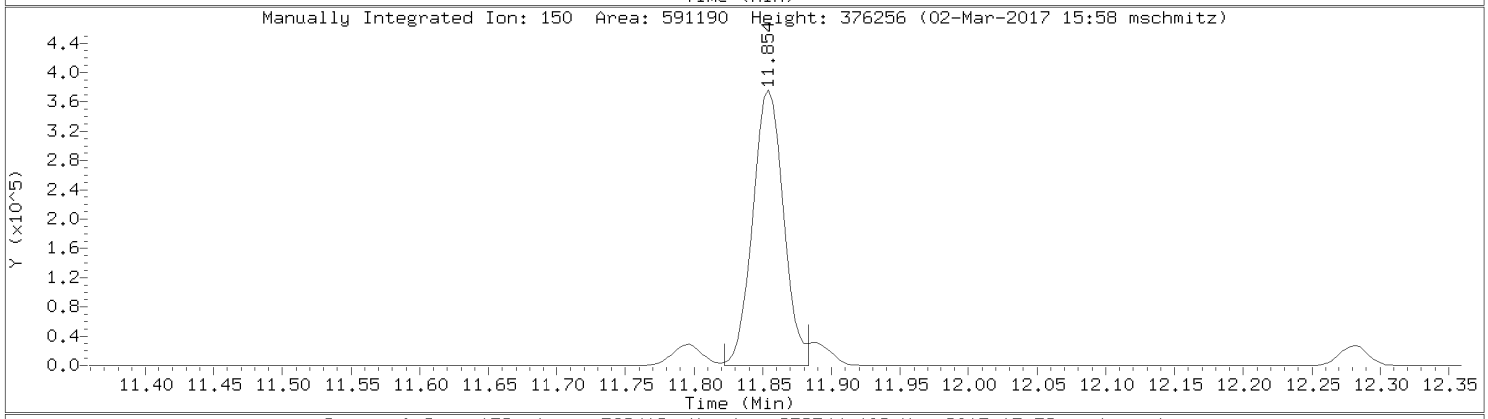
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

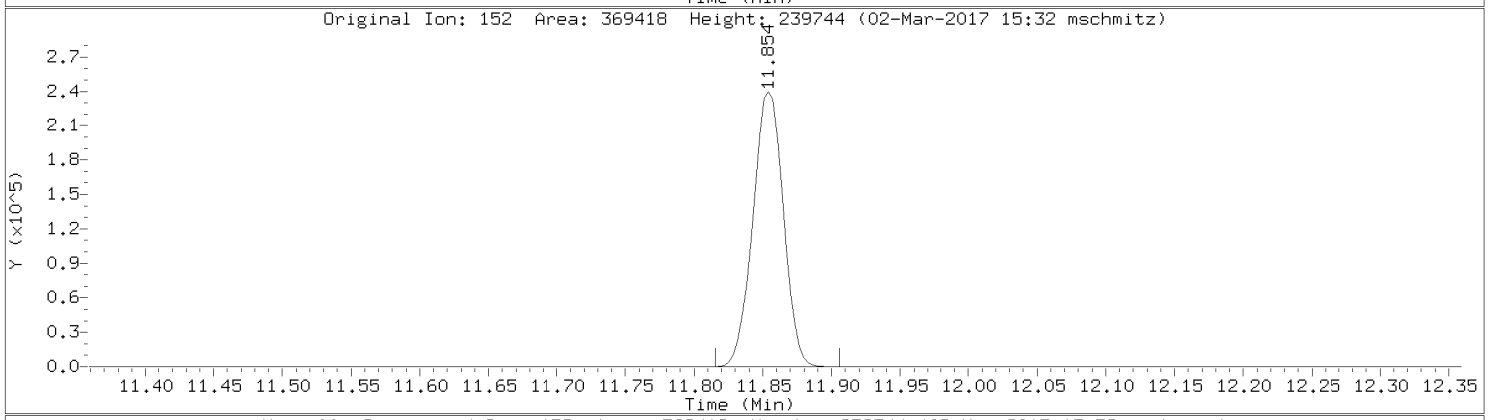


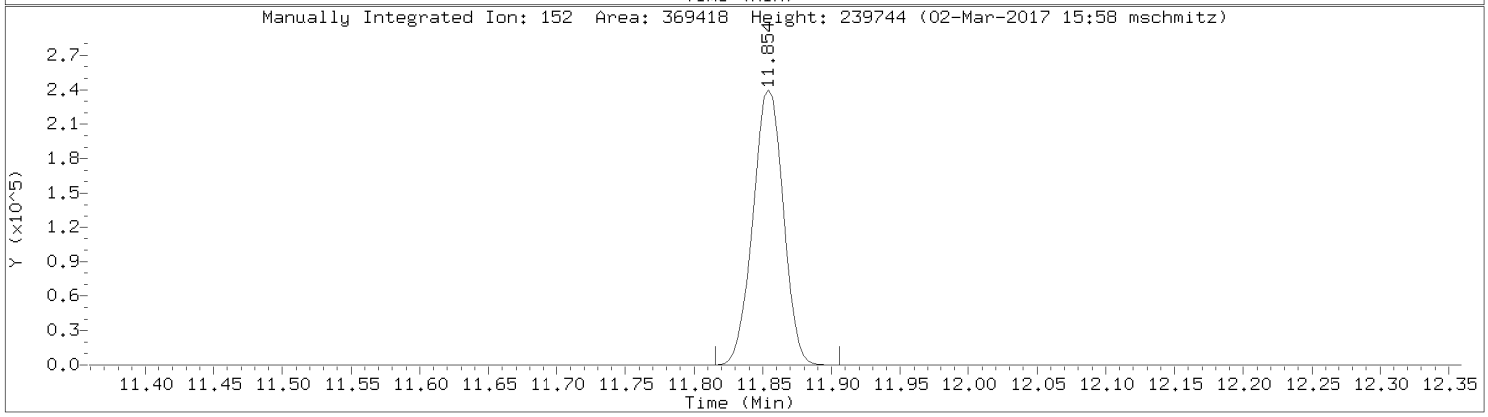
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Level 02: all \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Level 03: all \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Level 04: all \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Level 05: all \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Level 06: all \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Level 07: all \\192.168.10.12\chem\10air7.i\030417.b\06310.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 1,1-Difluoroethane	0.18111	0.15204	0.14148	0.14005	0.15288	0.13387	0.12877	AVRG		0.14717		11.79166
3 Chlorodifluoromethane	0.07689	0.08615	0.07325	0.07108	0.08210	0.07172	0.07001	AVRG		0.07589		8.10553
4 Propylene	+++++	10787	24024	42059	180601	307959	423114	QUAD	0.01670	0.20865	-0.01525	0.99867

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Dichlorodifluoromethane	0.98904	0.82087	0.75138	0.72298	0.81068	0.70408						
	0.64991							AVRG		0.77842		14.17474
6 Chloromethane	0.41370	0.34820	0.32044	0.28791	0.31728	0.28423						
	0.26350							AVRG		0.31932		15.69995
7 Dichlorotetrafluoroethane	0.91098	0.76795	0.69862	0.64257	0.71382	0.64785						
	0.60975							AVRG		0.71308		14.28867
8 Vinyl chloride	0.30182	0.25207	0.22813	0.19759	0.22828	0.21849						
	0.21391							AVRG		0.23433		14.53605
9 1,3-Butadiene	0.20068	0.20476	0.17263	0.14046	0.16520	0.16259						
	0.15606							AVRG		0.17177		13.60934
10 Bromomethane	0.33915	0.27409	0.25158	0.20993	0.24812	0.22606						
	0.23537							AVRG		0.25490		16.61207
11 Chloroethane	0.11167	0.10549	0.09141	0.07844	0.08914	0.07982						
	0.08496							AVRG		0.09156		13.79934

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Ethanol	+++++	0.07472	0.06247	0.05699	0.07461	0.07018					
	0.06714						AVRG		0.06769		10.35278
13 Vinyl Bromide	0.32277	0.30315	0.25019	0.22324	0.26068	0.23967					
	0.24659						AVRG		0.26375		13.62086
14 Isopentane	0.35956	0.29533	0.25267	0.21591	0.24207	0.21218					
	0.21678						AVRG		0.25636		21.09203
15 Freon 123	0.79325	0.65654	0.55136	0.48460	0.57521	0.52425					
	0.53947						AVRG		0.58924		17.72269
16 Trichlorofluoromethane	1.05912	0.84541	0.72952	0.66050	0.76025	0.68495					
	0.67444						AVRG		0.77346		18.22960
17 Acrolein	0.06364	0.05771	0.05178	0.04970	0.07636	0.07310					
	0.07384						AVRG		0.06373		17.25343
18 Acetone	0.69563	0.54453	0.45312	0.39229	0.38534	0.34935					
	0.32963						AVRG		0.44998		28.89110

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	0.55320	0.39786	0.33952	0.30601	0.37839	0.33893	0.33037	AVRG		0.37776		22.02850
20 1,1-Dichloroethene	0.55854	0.48630	0.38914	0.36101	0.42424	0.38885	0.38757	AVRG		0.42795		16.41783
21 Acrylonitrile	0.24579	0.19257	0.14989	0.13556	0.17495	0.16331	0.16143	AVRG		0.17478		20.66394
22 Freon 113	0.76635	0.67012	0.53081	0.49705	0.57101	0.50912	0.50483	AVRG		0.57847		17.69795
23 Tert Butyl Alcohol (TBA)	0.68863	0.54116	0.43359	0.42010	0.53095	0.47194	0.45324	AVRG		0.50566		18.37076
24 Methyl Acetate	0.67935	0.55213	0.41351	0.37165	0.50498	0.54279	0.53015	AVRG		0.51351		19.52732
25 Methylene chloride	0.44902	0.38749	0.29362	0.26731	0.29960	0.25736	0.24523	AVRG		0.31423		24.08659

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Allyl Chloride	0.09201	0.06725	0.05594	0.05370	0.08726	0.08171	0.08148	AVRG		0.07419		20.58467
27 Carbon Disulfide	0.70211	0.62527	0.47083	0.44569	0.54768	0.50996	0.49982	AVRG		0.54305		16.76667
28 trans-1,2-dichloroethene	0.31043	0.26637	0.19728	0.18347	0.23017	0.21253	0.21008	AVRG		0.23005		19.21965
29 Methyl Tert Butyl Ether	0.85058	0.70517	0.55603	0.52375	0.61838	0.55836	0.53671	AVRG		0.62128		19.10150
30 Vinyl Acetate	0.65245	0.51289	0.38381	0.36111	0.66299	0.61267	0.60278	AVRG		0.54124		23.13979
31 1,1-Dichloroethane	0.59566	0.53825	0.40477	0.37151	0.43540	0.40825	0.40279	AVRG		0.45095		18.41783
33 Methyl Ethyl Ketone	0.10975	0.09063	0.07747	0.06918	0.08306	0.08021	0.08444	AVRG		0.08496		15.02794

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
34 n-Hexane	0.49505	0.38194	0.29012	0.26654	0.32223	0.30199	0.29344	AVRG		0.33590		23.53414
35 Di-isopropyl Ether	1.15856	1.01441	0.72832	0.69377	0.80420	0.74512	0.72383	AVRG		0.83832		21.20027
36 cis-1,2-Dichloroethene	0.34478	0.26113	0.20753	0.20237	0.25027	0.23811	0.23353	AVRG		0.24825		19.15751
37 Ethyl Acetate	0.74550	0.62080	0.45744	0.41137	0.52187	0.49129	0.48013	AVRG		0.53263		21.41013
38 Ethyl Tert-Butyl Ether	1.08365	0.88290	0.69310	0.66990	0.78813	0.69823	0.65359	AVRG		0.78136		19.90827
39 Chloroform	0.76379	0.60028	0.48325	0.47456	0.56736	0.50859	0.48321	AVRG		0.55443		18.73259
40 Tetrahydrofuran	0.39158	0.27969	0.22490	0.19971	0.25162	0.23667	0.23472	AVRG		0.25984		24.24849

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
41 1,1,1-Trichloroethane	0.81835	0.75072	0.62710	0.63490	0.70185	0.64800						
	0.56467							AVRG		0.67794		12.59517
42 1,2-Dichloroethane	0.56439	0.51531	0.42044	0.40976	0.47359	0.43113						
	0.37801							AVRG		0.45609		14.34329
43 Benzene	1.07284	0.88959	0.72018	0.66791	0.75966	0.67624						
	0.63857							AVRG		0.77500		20.05310
44 Carbon tetrachloride	0.85664	0.75370	0.67344	0.64165	0.84291	0.74234						
	0.69191							AVRG		0.74323		11.08564
45 Cyclohexane	0.53866	0.45518	0.36798	0.33439	0.37785	0.33080						
	0.31363							AVRG		0.38836		20.86348
46 Tert Amyl Methyl Ether	18647	25344	41376	67237	631504	1150933						
	1645384							LINR	0.02495	0.66171		0.99812
48 2,2,4-Trimethylpentane	1.75547	1.48033	1.23246	1.12863	1.16476	1.00746						
	0.93349							AVRG		1.24323		22.97567

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
49 Heptane	0.69456	0.60115	0.49179	0.44936	0.47986	0.42683						
	0.41096							AVRG		0.50779		20.33583
50 1,2-Dichloropropane	0.38498	0.34645	0.28683	0.26292	0.28885	0.26355						
	0.25495							AVRG		0.29836		16.41511
51 Trichloroethene	0.65894	0.53485	0.44695	0.41880	0.45115	0.40205						
	0.38994							AVRG		0.47181		20.18391
52 Methyl methacrylate	0.31309	0.25264	0.20751	0.19039	0.23663	0.21150						
	0.20734							AVRG		0.23130		17.98156
53 Bromodichloromethane	0.85004	0.66061	0.57468	0.55637	0.69541	0.61495						
	0.59516							AVRG		0.64960		15.50468
54 1,4-Dioxane	0.19217	0.12514	0.12103	0.09914	0.13515	0.12174						
	0.10591							AVRG		0.12861		23.71939
55 Methylcyclohexane	0.20695	0.18819	0.16392	0.15373	0.16641	0.15001						
	0.14614							AVRG		0.16791		13.20429

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
56 Methyl Isobutyl Ketone	0.94008	0.76944	0.64591	0.60234	0.66394	0.58030	0.54302	AVRG		0.67786		20.13436
57 cis-1,3-Dichloropropene	0.53196	0.46542	0.38894	0.37703	0.45778	0.42009	0.41095	AVRG		0.43603		12.25055
58 trans-1,3-Dichloropropene	0.47623	0.38997	0.33079	0.32546	0.44100	0.40042	0.39676	AVRG		0.39438		13.78300
60 Toluene	1.30936	1.05721	0.87799	0.85230	0.91315	0.80818	0.79683	AVRG		0.94500		19.32586
61 1,1,2-Trichloroethane	0.49909	0.39686	0.32841	0.30680	0.34582	0.31044	0.30449	AVRG		0.35599		19.91599
62 Methyl Butyl Ketone	1.48158	1.07284	0.89976	0.78574	0.91998	0.80189	0.75089	AVRG		0.95895		26.55539
63 n-Octane	1.33364	1.19767	0.97579	0.87398	0.97562	0.82909	0.78979	AVRG		0.99651		20.10190

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	1.40574	1.14246	1.00544	0.96546	1.32030	1.16829						
	1.11598							AVRG		1.16053		13.63011
65 1,2-Dibromoethane	1.23923	0.95229	0.82464	0.77768	0.94672	0.83421						
	0.80034							AVRG		0.91073		17.59608
66 Tetrachloroethene	1.39715	1.13722	0.94958	0.88344	0.96482	0.82785						
	0.78043							AVRG		0.99150		21.44522
68 Chlorobenzene	1.64503	1.34896	1.11282	1.05208	1.19725	1.06178						
	1.02113							AVRG		1.20558		18.56660
69 Ethyl Benzene	2.68170	2.11748	1.74498	1.60813	1.79893	1.60158						
	1.51856							AVRG		1.86734		21.91570
70 m&p-Xylene	2.32181	1.61619	1.34007	1.22977	1.37470	1.22051						
	1.15946							AVRG		1.46607		27.69555
71 Bromoform	1.09743	0.76969	0.65395	0.66845	1.24718	1.10637						
	1.04995							AVRG		0.94186		25.40218

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
72 n-Nonane	1.10533	0.98310	0.86584	0.81573	0.93953	0.80619	0.75031	AVRG		0.89515		13.67732
73 Styrene	1.25914	1.00308	0.85628	0.82715	0.98888	0.88878	0.85780	AVRG		0.95444		15.76717
74 o-Xylene	2.22542	1.63389	1.33291	1.27308	1.39708	1.21384	1.18006	AVRG		1.46518		25.07593
75 1,1,2,2-Tetrachloroethane	1.33192	0.93705	0.81911	0.71992	0.86382	0.76867	0.75225	AVRG		0.88468		23.78430
76 Isopropylbenzene	2.80306	2.26328	1.88591	1.77323	1.96929	1.74324	1.65475	AVRG		2.01325		19.90460
77 N-Propylbenzene	2.79585	2.20558	1.90501	1.78528	2.07758	1.83389	1.77153	AVRG		2.05353		17.74282
78 4-Ethyltoluene	2.63604	1.83663	1.61450	1.50396	1.76956	1.57110	1.52700	AVRG		1.77983		22.32553

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,3,5-Trimethylbenzene	2.18800	1.57727	1.44675	1.34114	1.47810	1.32787						
	1.26707							AVRG		1.51803		20.64799
80 n-Decane	0.52717	0.43327	0.38237	0.39327	0.47503	0.44851						
	0.44758							AVRG		0.44389		11.03656
81 Tert-Butyl Benzene	2.30782	1.75245	1.55311	1.48454	1.55886	1.39407						
	1.32630							AVRG		1.62531		20.31793
82 1,2,4-Trimethylbenzene	+++++	1.49817	1.30367	1.24419	1.34482	1.23228						
	1.18003							AVRG		1.30053		8.65728
83 1,3-Dichlorobenzene	1.32523	0.86694	0.73363	0.71623	0.87748	0.83667						
	0.81193							AVRG		0.88116		23.31102
84 Sec- Butylbenzene	2.71123	2.07668	1.85960	1.77781	1.90738	1.73642						
	1.68378							AVRG		1.96470		17.99683
86 Benzyl Chloride	0.84612	0.53888	0.48876	0.43831	0.75526	0.78311						
	0.79290							AVRG		0.66334		25.34511

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
87 1,4-Dichlorobenzene	1.23013	0.78568	0.66796	0.63289	0.79554	0.78246	0.76115	AVRG		0.80797		24.33559
88 p-Isopropyltoluene	2.18749	1.61840	1.50692	1.45354	1.59075	1.47831	1.44518	AVRG		1.61151		16.29089
89 1,2,3-Trimethylbenzene	2.10577	1.37677	1.19550	1.13893	1.22812	1.14252	1.10830	AVRG		1.32799		26.68105
90 1,2-Dichlorobenzene	1.13331	0.79009	0.67616	0.64131	0.76089	0.73286	0.71025	AVRG		0.77784		21.14866
91 N-Butylbenzene	1.54341	1.02181	0.96195	0.91772	1.09128	1.02328	1.02236	AVRG		1.08312		19.40332
92 1,2-Dibromo-3-Chloropropane	0.25131	0.16478	0.14018	0.12847	0.21499	0.20041	0.19818	AVRG		0.18548		23.41793
93 1,2,4-Trichlorobenzene	1286	1265	2814	4736	45723	103855	154120	LINR	-0.00059	0.09203		0.99912

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	2740	2805	6365	10481	90166	193658					
	268656						LINR	0.00402	0.16287		0.99759
95 Hexachlorobutadiene	+++++	3869	8007	17276	106467	187769					
	271135						QUAD	0.00678	0.19414	-0.01199	0.99899
$ 32 Hexane-d14(S)	0.28622	0.28708	0.25310	0.25577	0.26701	0.27695					
	0.28448						AVRG		0.27295		5.28674
$ 59 Toluene-d8 (S)	0.83074	0.84525	0.84391	0.83310	0.83807	0.83670					
	0.84836						AVRG		0.83944		0.78206
$ 85 1,4-dichlorobenzene-d4 (S)	0.35107	0.34678	0.36753	0.39357	0.43999	0.47901					
	0.48608						AVRG		0.40915		14.45556

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Average %RSD Results.
Calculated Average %RSD = 18.37878
Maximun Average %RSD = 0.000e+000
* Failed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Report Date: 04-Mar-2017 13:06

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Lab Smp Id: CAL1
Inj Date : 04-MAR-2017 08:10
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:05 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.314	2.314	(0.515)	330	0.10000	(aQM)
2	1,1-Difluoroethane	65	2.362	2.362	(0.525)	1703	0.10000	0.123(Q)
3	Chlorodifluoromethane	67	2.381	2.381	(0.530)	723	0.10000	0.101(QM)
4	Propylene	41	2.388	2.388	(0.531)	6383	0.10000	137(A)
5	Dichlorodifluoromethane	85	2.401	2.401	(0.534)	9300	0.10000	0.127
6	Chloromethane	50	2.471	2.471	(0.550)	3890	0.10000	0.130
7	Dichlorotetrafluoroethane	85	2.465	2.465	(0.548)	8566	0.10000	0.128
8	Vinyl chloride	62	2.529	2.529	(0.562)	2838	0.10000	0.129
9	1,3-Butadiene	54	2.558	2.558	(0.569)	1887	0.10000	0.117
10	Bromomethane	94	2.658	2.658	(0.591)	3189	0.10000	0.133
11	Chloroethane	64	2.693	2.693	(0.599)	1050	0.10000	0.122
12	Ethanol	45	2.716	2.716	(0.604)	4963	0.50000	0.780
13	Vinyl Bromide	106	2.787	2.787	(0.620)	3035	0.10000	0.122
14	Isopentane	43	2.799	2.799	(0.623)	3381	0.10000	0.140
15	Freon 123	83	2.796	2.796	(0.622)	7459	0.10000	0.135
16	Trichlorofluoromethane	101	2.857	2.857	(0.635)	9959	0.10000	0.137
17	Acrolein	56	2.851	2.851	(0.634)	1496	0.25000	0.250
18	Acetone	43	2.880	2.880	(0.640)	32705	0.50000	0.773(M)
19	Isopropyl Alcohol	45	2.893	2.893	(0.643)	26009	0.50000	0.732(QM)
20	1,1-Dichloroethene	61	3.047	3.047	(0.678)	5252	0.10000	0.131
21	Acrylonitrile	53	3.044	3.044	(0.677)	5778	0.25000	0.352
22	Freon 113	101	3.076	3.076	(0.684)	7206	0.10000	0.132
23	Tert Butyl Alcohol (TBA)	59	3.053	3.053	(0.679)	16188	0.25000	0.340

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Report Date: 04-Mar-2017 13:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.076	3.076	(0.684)	6388	0.10000	0.132(QM)
	25 Methylene chloride	49	3.118	3.118	(0.693)	21111	0.50000	0.714
	26 Allyl Chloride	76	3.127	3.127	(0.695)	2163	0.25000	0.310(Q)
	27 Carbon Disulfide	76	3.224	3.224	(0.717)	6602	0.10000	0.129
	28 trans-1,2-dichloroethene	96	3.336	3.336	(0.742)	2919	0.10000	0.135
	29 Methyl Tert Butyl Ether	73	3.365	3.365	(0.748)	19995	0.25000	0.342
	30 Vinyl Acetate	43	3.433	3.433	(0.763)	6135	0.10000	0.121(M)
	31 1,1-Dichloroethane	63	3.446	3.446	(0.766)	5601	0.10000	0.132
$	32 Hexane-d14(S)	66	3.523	3.523	(0.783)	269133	10.0000	10.5
	33 Methyl Ethyl Ketone	72	3.577	3.577	(0.796)	1032	0.10000	0.129(Q)
	34 n-Hexane	57	3.603	3.603	(0.801)	4655	0.10000	0.147(M)
	35 Di-isopropyl Ether	45	3.619	3.619	(0.805)	10894	0.10000	0.138
	36 cis-1,2-Dichloroethene	96	3.716	3.716	(0.826)	3242	0.10000	0.139
	37 Ethyl Acetate	43	3.725	3.725	(0.828)	7010	0.10000	0.140
	38 Ethyl Tert-Butyl Ether	59	3.812	3.812	(0.848)	25474	0.25000	0.347
	39 Chloroform	83	3.812	3.812	(0.848)	7182	0.10000	0.138
	40 Tetrahydrofuran	42	3.963	3.963	(0.881)	3682	0.10000	0.151
	41 1,1,1-Trichloroethane	97	4.150	4.150	(0.923)	7695	0.10000	0.121
	42 1,2-Dichloroethane	62	4.159	4.159	(0.925)	5307	0.10000	0.124
	43 Benzene	78	4.359	4.359	(0.969)	10088	0.10000	0.138
	44 Carbon tetrachloride	117	4.378	4.378	(0.974)	8055	0.10000	0.115
	45 Cyclohexane	56	4.381	4.381	(0.974)	5065	0.10000	0.139
	46 Tert Amyl Methyl Ether	73	4.497	4.497	(1.000)	18647	0.10000	(aQ)
*	47 1,4-Difluorobenzene	114	4.497	4.497	(1.000)	940305	10.0000	
	48 2,2,4-Trimethylpentane	57	4.632	4.632	(1.030)	41267	0.25000	0.353
	49 Heptane	43	4.748	4.748	(1.056)	6531	0.10000	0.137
	50 1,2-Dichloropropane	63	4.812	4.812	(1.070)	3620	0.10000	0.129
	51 Trichloroethene	130	4.831	4.831	(1.074)	6196	0.10000	0.140
	52 Methyl methacrylate	69	4.902	4.902	(1.090)	2944	0.10000	0.135
	53 Bromodichloromethane	83	4.918	4.918	(1.094)	7993	0.10000	0.131
	54 1,4-Dioxane	88	4.921	4.921	(1.094)	1807	0.10000	0.149
	55 Methylcyclohexane	98	5.227	5.227	(1.162)	1946	0.10000	0.123(Q)
	56 Methyl Isobutyl Ketone	43	5.349	5.349	(1.189)	22099	0.25000	0.347
	57 cis-1,3-Dichloropropene	75	5.391	5.391	(1.199)	5002	0.10000	0.122
	58 trans-1,3-Dichloropropene	75	5.761	5.761	(1.281)	4478	0.10000	0.121
$	59 Toluene-d8 (S)	98	5.831	5.831	(1.297)	781145	10.0000	9.90
	60 Toluene	91	5.899	5.899	(1.312)	12312	0.10000	0.139
	61 1,1,2-Trichloroethane	97	5.905	5.905	(1.313)	4693	0.10000	0.140
	62 Methyl Butyl Ketone	43	6.140	6.140	(0.840)	21577	0.25000	0.386(M)
	63 n-Octane	43	6.323	6.323	(0.865)	7769	0.10000	0.134
	64 Dibromochloromethane	129	6.394	6.394	(0.875)	8189	0.10000	0.121
	65 1,2-Dibromoethane	107	6.609	6.609	(0.905)	7219	0.10000	0.136
	66 Tetrachloroethene	166	6.683	6.683	(0.915)	8139	0.10000	0.141
*	67 Chlorobenzene - d5	117	7.307	7.307	(1.000)	582541	10.0000	
	68 Chlorobenzene	112	7.349	7.349	(1.006)	9583	0.10000	0.136(M)
	69 Ethyl Benzene	91	7.587	7.587	(1.038)	15622	0.10000	0.144
	70 m&p-Xylene	91	7.735	7.735	(1.059)	27051	0.20000	0.317
	71 Bromoform	173	8.098	8.098	(1.108)	6393	0.10000	0.117
	72 n-Nonane	43	8.130	8.130	(1.113)	6439	0.10000	0.123
	73 Styrene	104	8.150	8.150	(1.115)	7335	0.10000	0.132
	74 o-Xylene	91	8.208	8.208	(1.123)	12964	0.10000	0.152
	75 1,1,2,2-Tetrachloroethane	83	8.465	8.465	(1.158)	7759	0.10000	0.151
	76 Isopropylbenzene	105	8.780	8.780	(1.202)	16329	0.10000	0.139
	77 N-Propylbenzene	91	9.339	9.339	(1.278)	16287	0.10000	0.136

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Report Date: 04-Mar-2017 13:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.506	9.506	(1.301)	15356	0.10000	0.148(M)
79	1,3,5-Trimethylbenzene	105	9.600	9.600	(1.314)	12746	0.10000	0.144
80	n-Decane	57	10.002	10.002	(2.224)	4957	0.10000	0.119
81	Tert-Butyl Benzene	119	10.095	10.095	(1.381)	13444	0.10000	0.142
82	1,2,4-Trimethylbenzene	105	10.105	10.105	(1.383)	14624	0.10000	0.193
83	1,3-Dichlorobenzene	146	10.413	10.413	(1.425)	7720	0.10000	0.150
84	Sec- Butylbenzene	105	10.436	10.436	(1.428)	15794	0.10000	0.138
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.484	10.484	(1.435)	204512	10.0000	8.58
86	Benzyl Chloride	91	10.506	10.506	(1.438)	4929	0.10000	0.128
87	1,4-Dichlorobenzene	146	10.519	10.519	(1.440)	7166	0.10000	0.152(M)
88	p-Isopropyltoluene	119	10.654	10.654	(1.458)	12743	0.10000	0.136
89	1,2,3-Trimethylbenzene	105	10.703	10.703	(1.465)	12267	0.10000	0.159
90	1,2-Dichlorobenzene	146	11.002	11.002	(1.506)	6602	0.10000	0.146
91	N-Butylbenzene	91	11.249	11.249	(1.539)	8991	0.10000	0.142
92	1,2-Dibromo-3-Chloropropane	157	11.780	11.780	(1.612)	1464	0.10000	0.135
93	1,2,4-Trichlorobenzene	180	13.043	13.043	(1.785)	1286	0.10000	0.304(QM)
94	Naphthalene	128	13.169	13.169	(1.802)	2740	0.10000	0.0419(a)
95	Hexachlorobutadiene	225	13.423	13.423	(1.837)	2950	0.10000	162(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Report Date: 04-Mar-2017 13:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06304.D
Lab Smp Id: CAL1
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

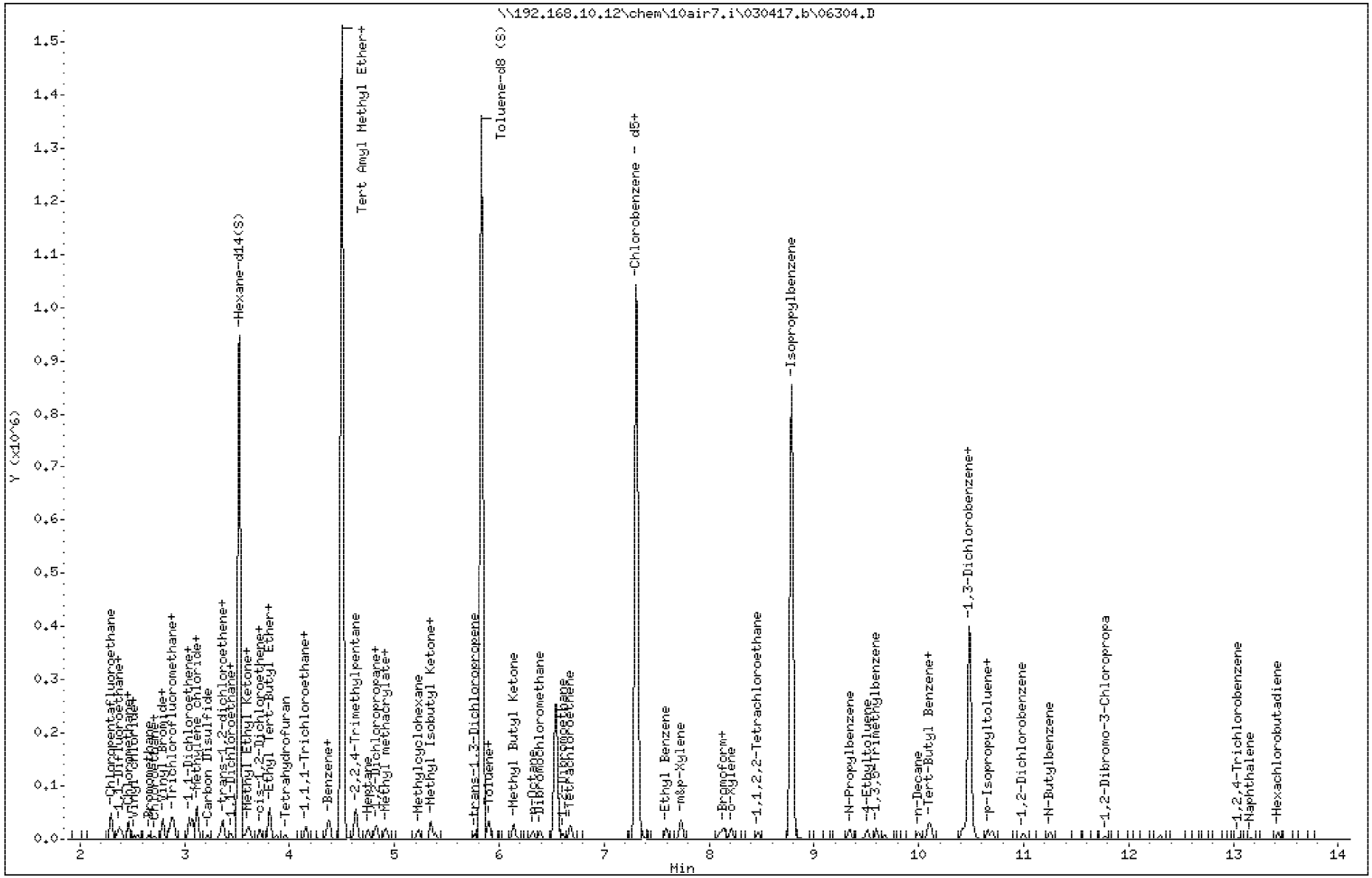
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	940305	12.48
67 Chlorobenzene - d	539522	323713	755331	582541	7.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.22
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

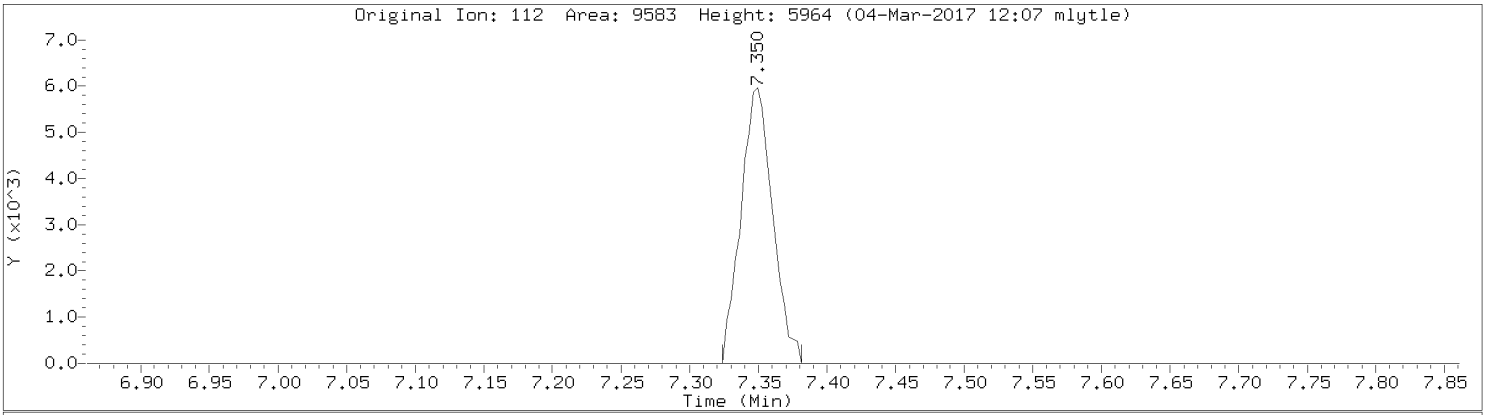
Data File: \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Date : 04-MAR-2017 08:10
Client ID:
Sample Info:

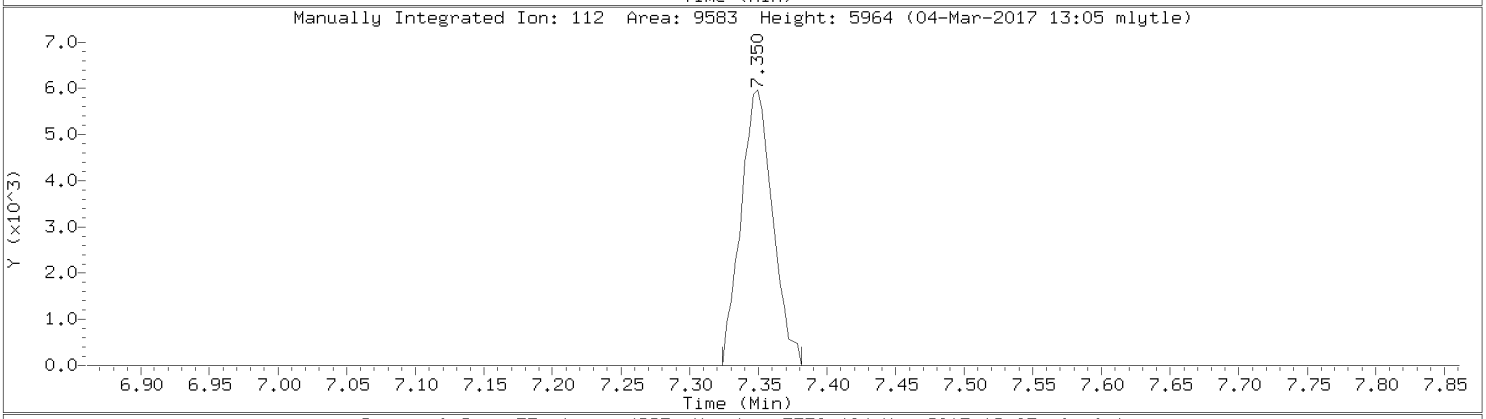
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

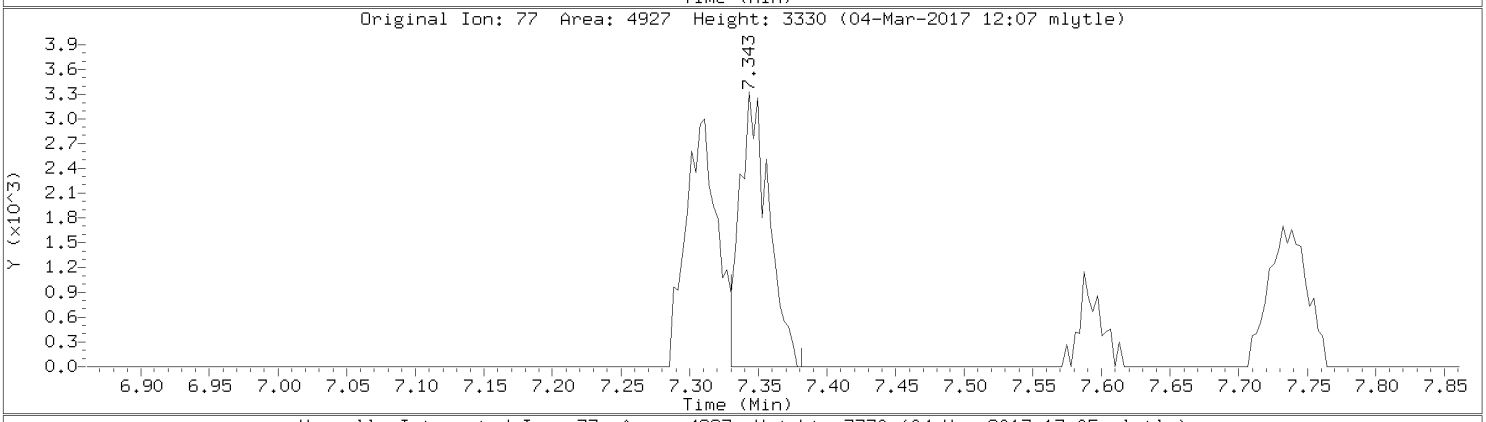


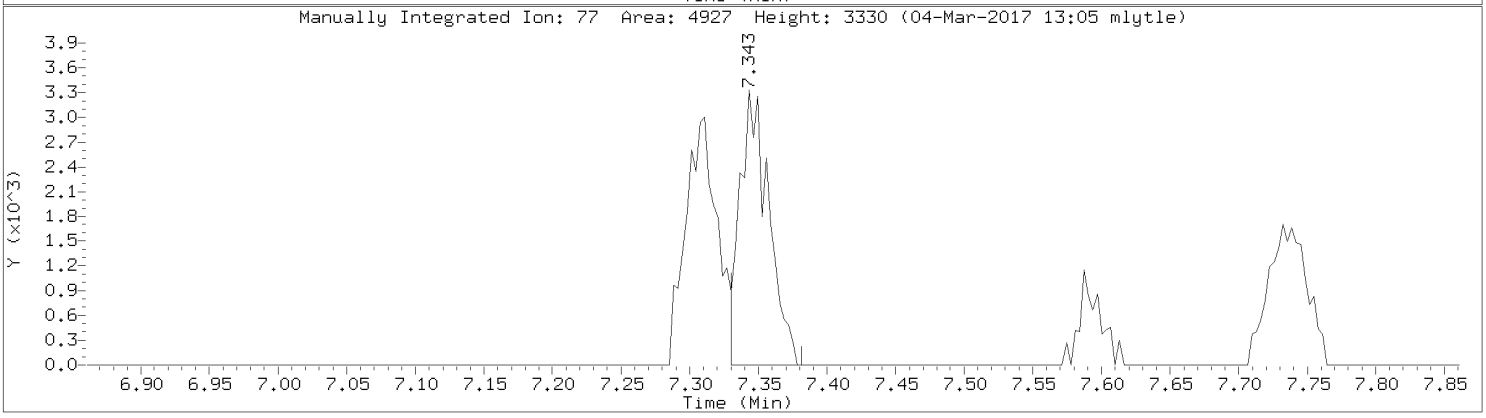
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Chlorobenzene
CAS Number: 108-90-7

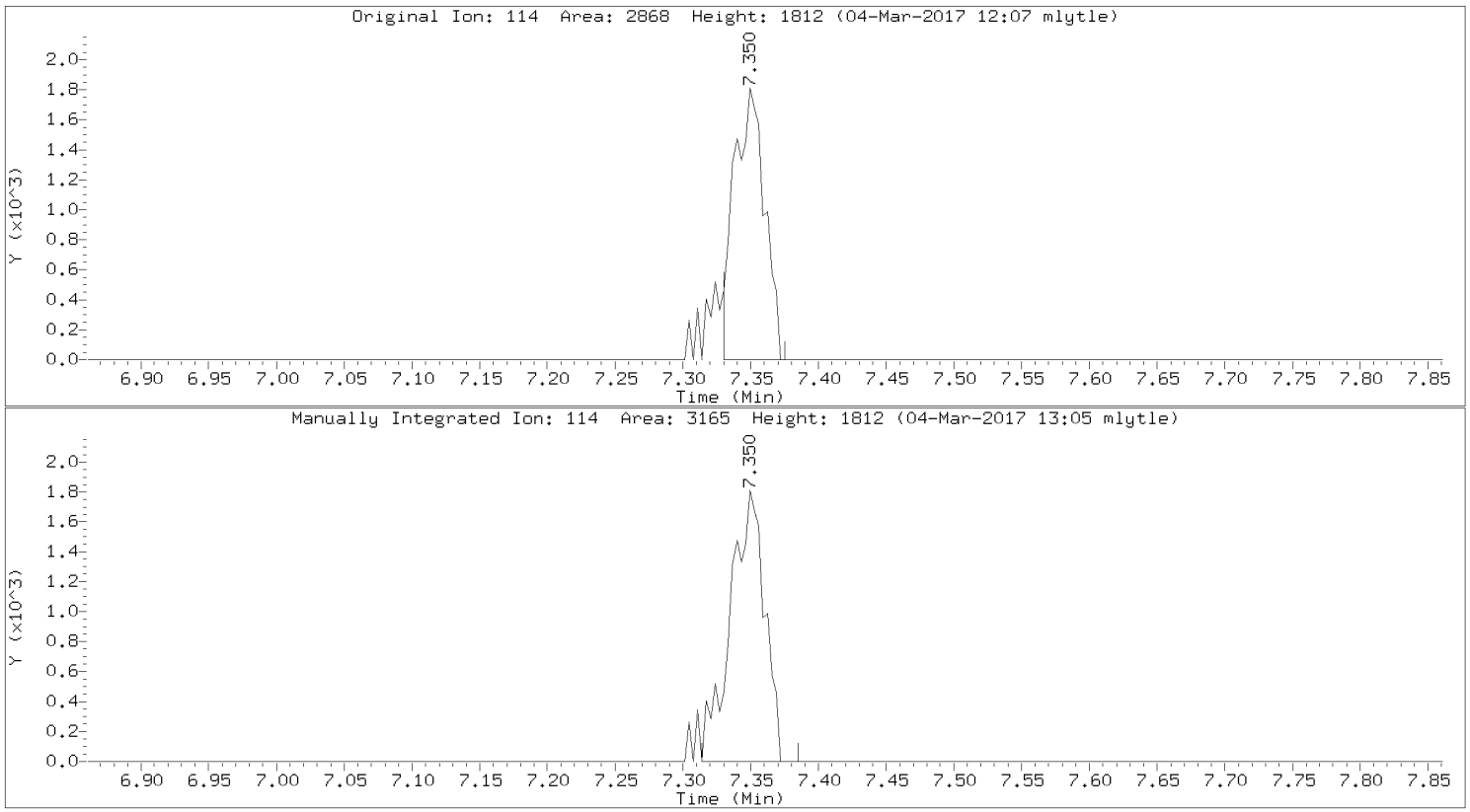






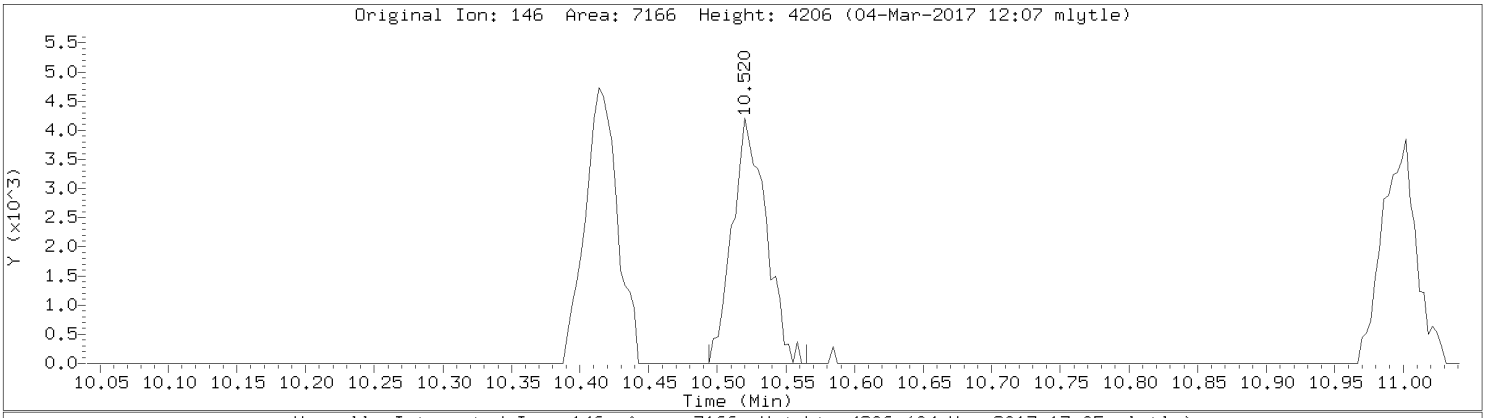


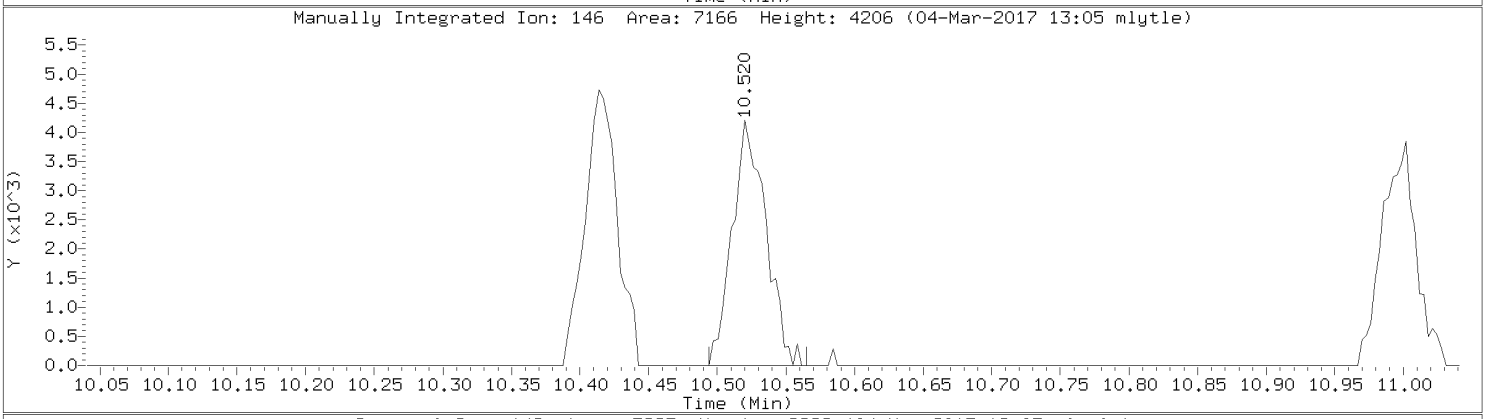
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

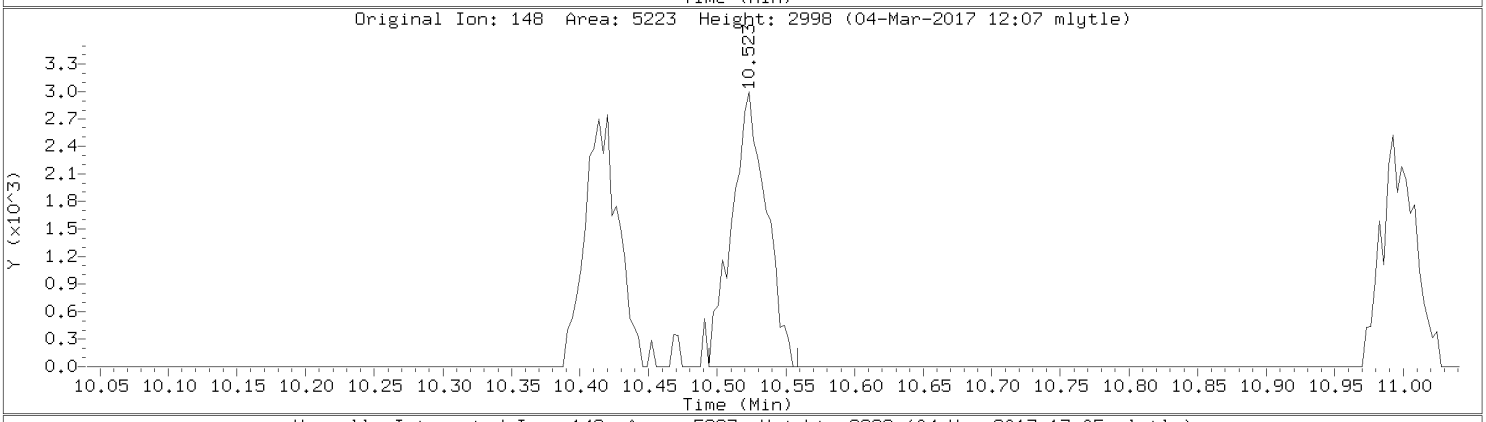


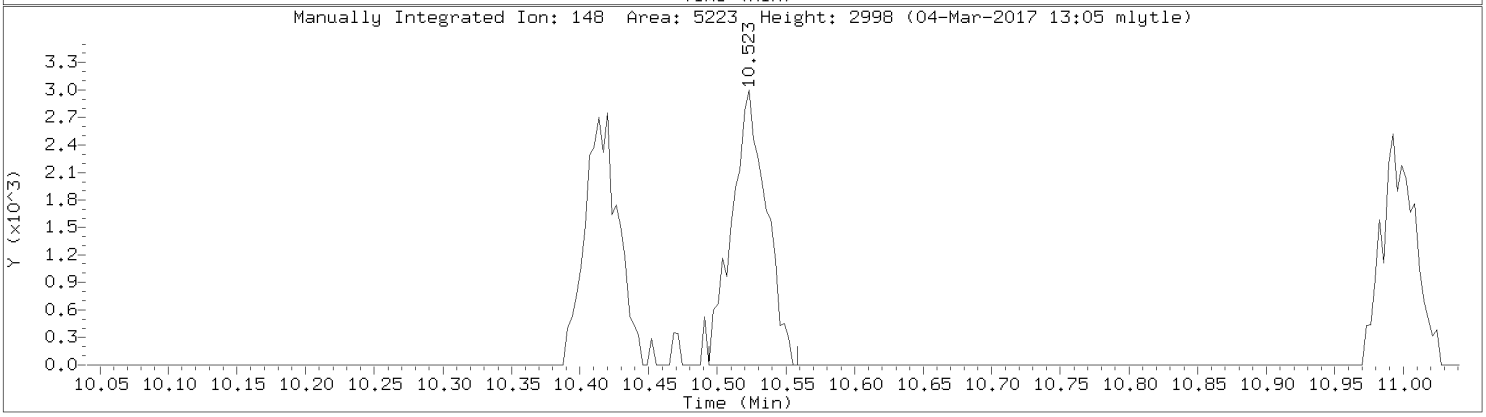
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

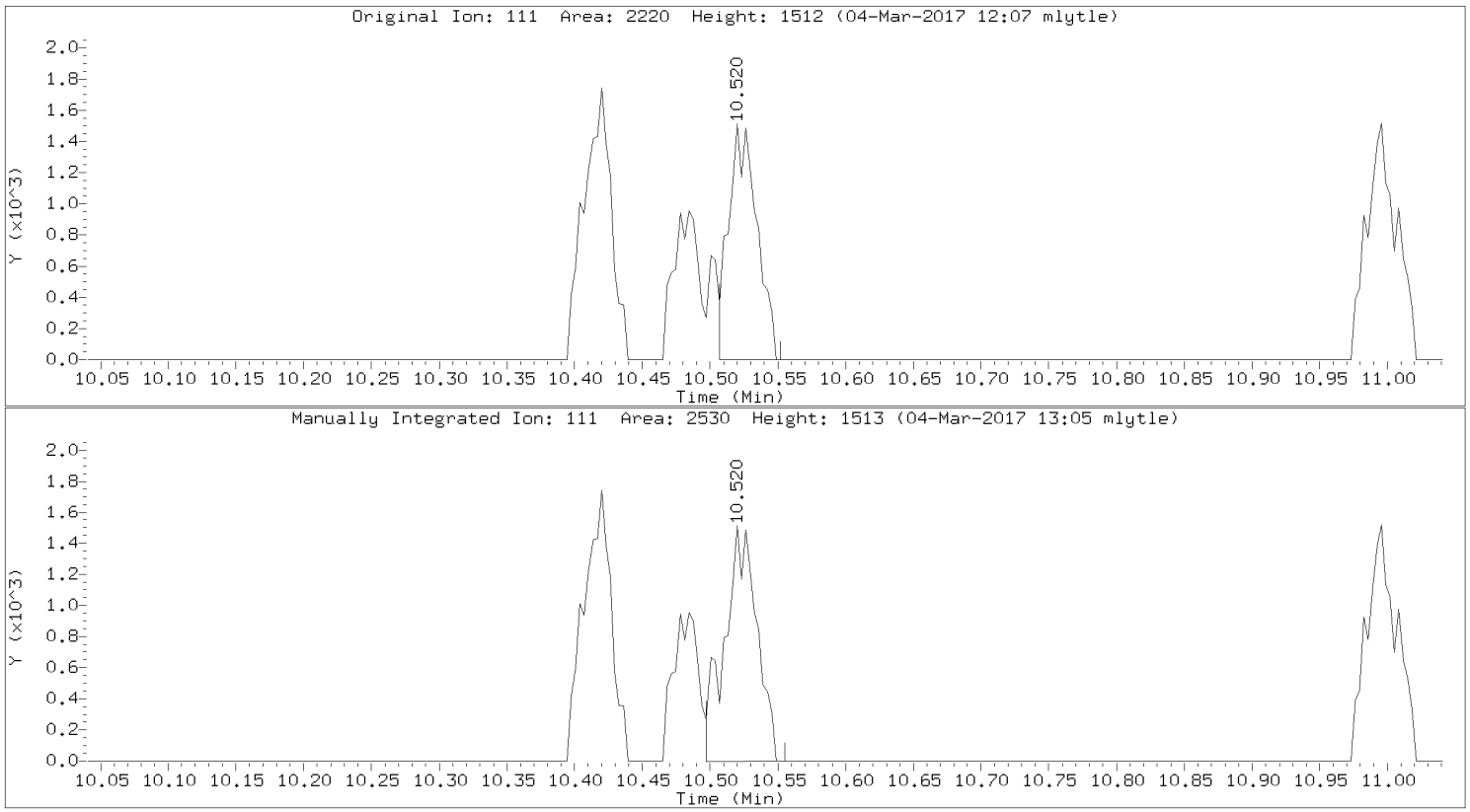






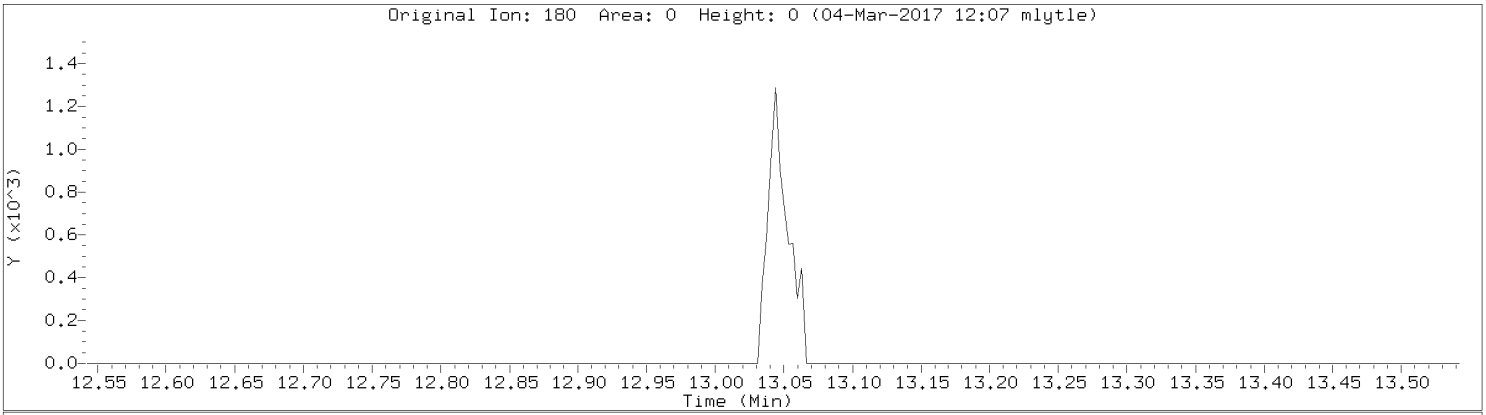


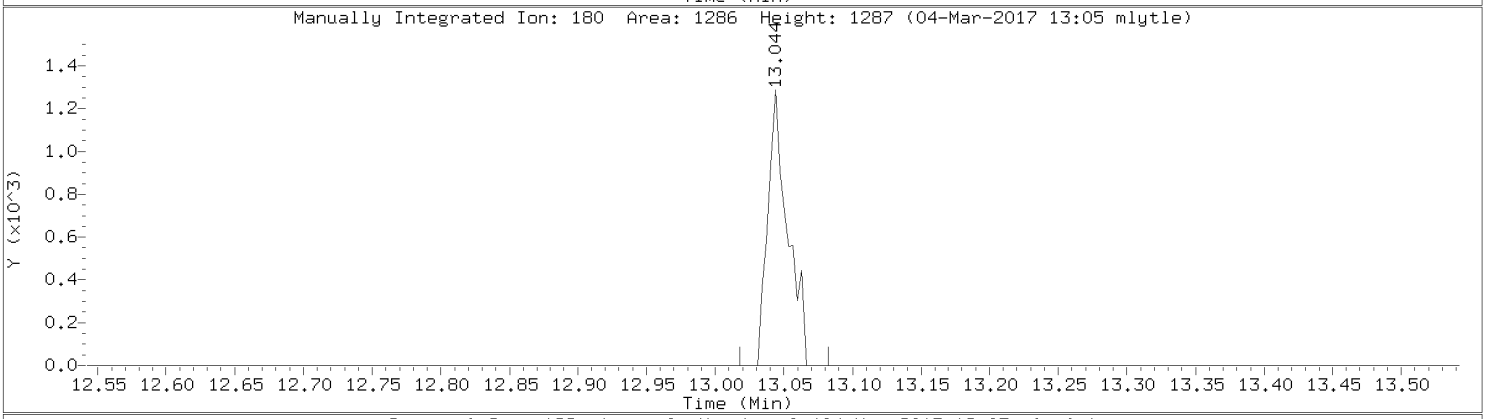
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

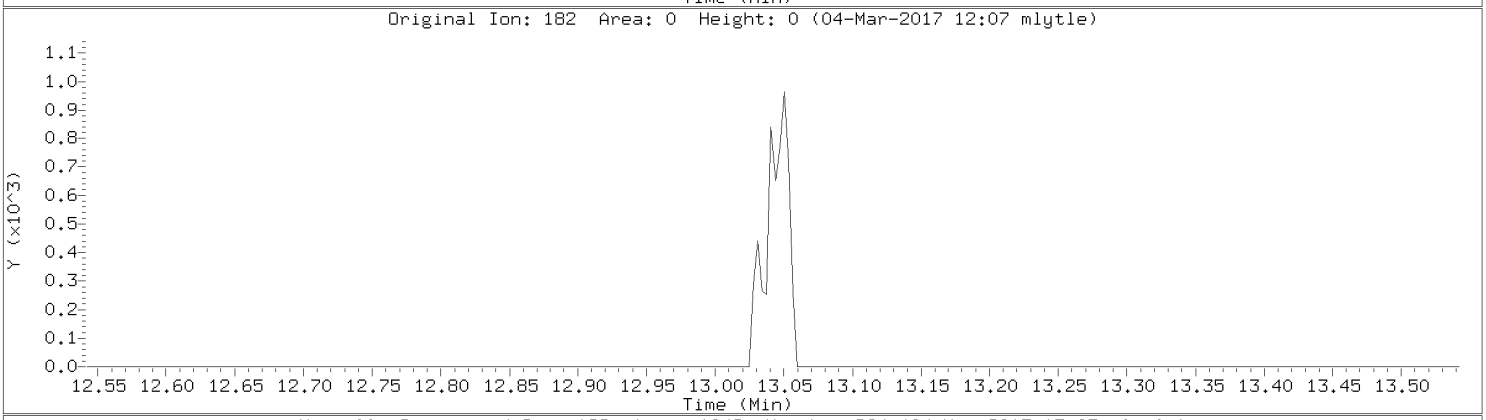


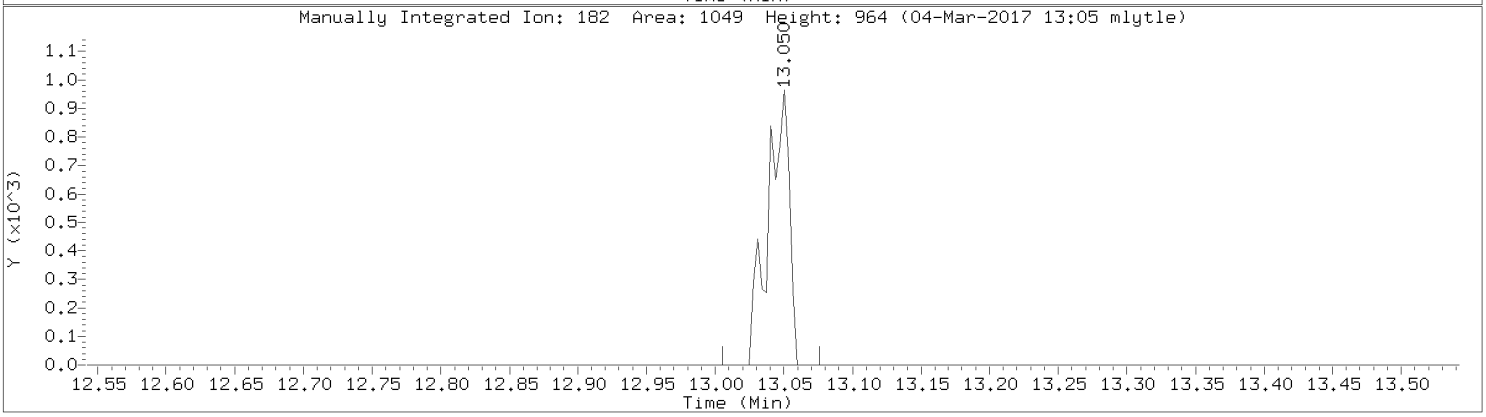
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

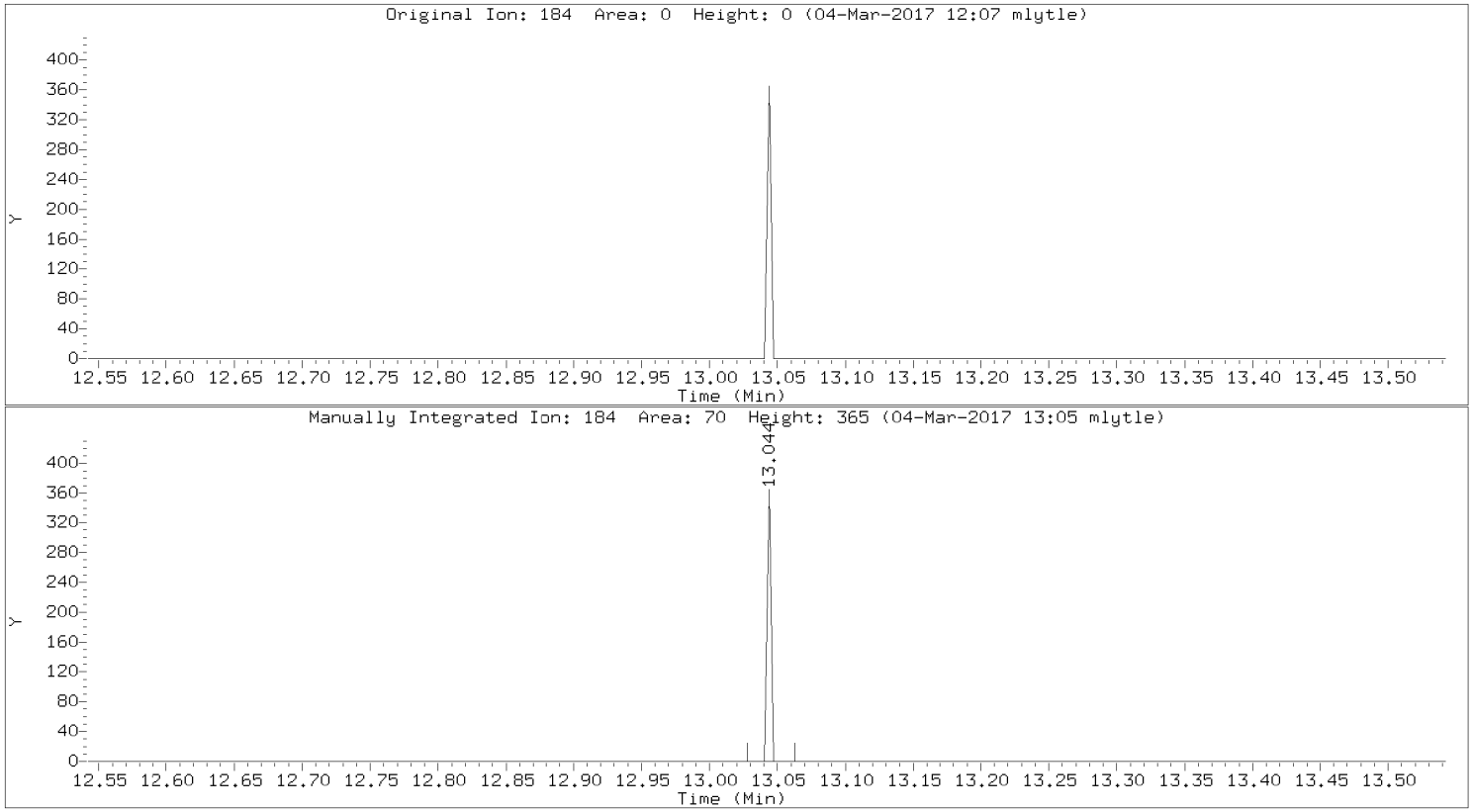






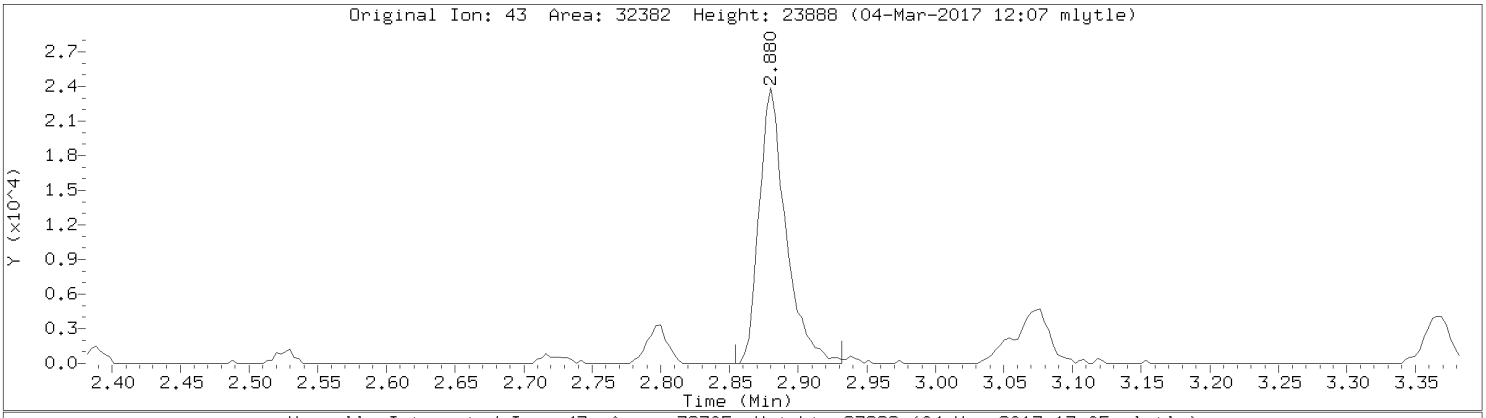


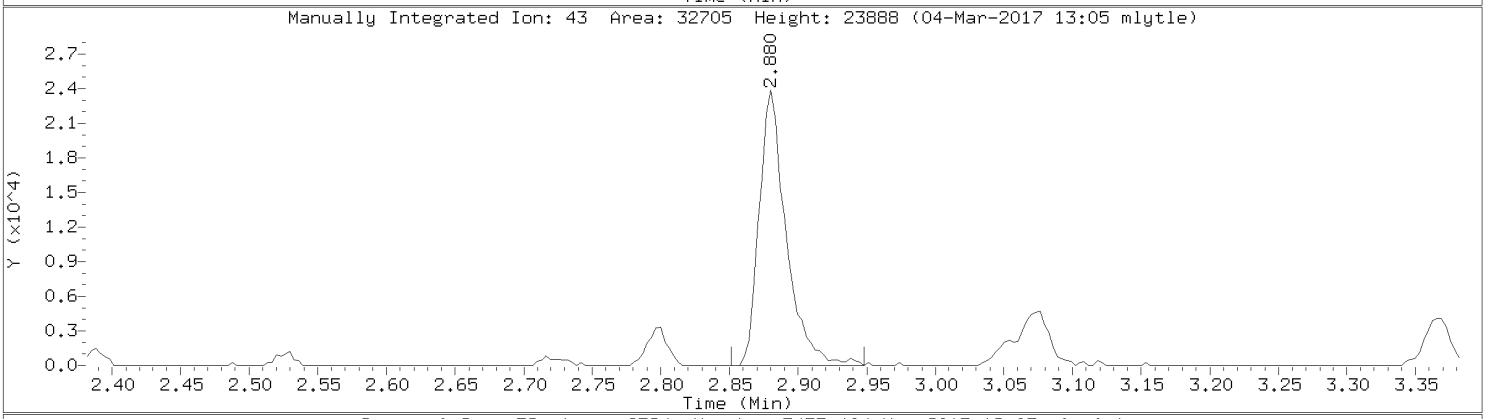
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

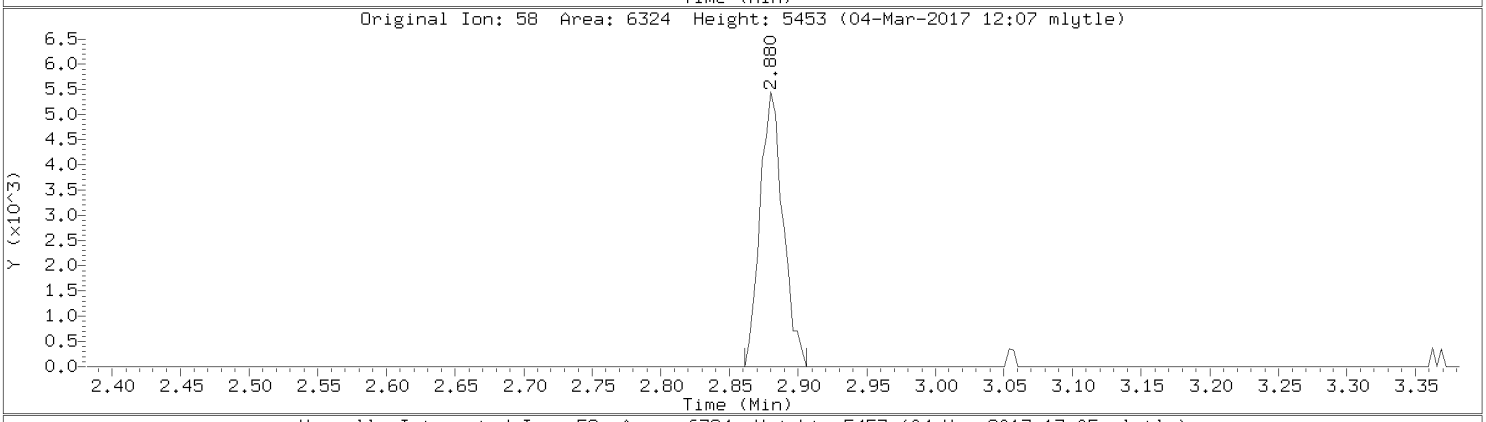


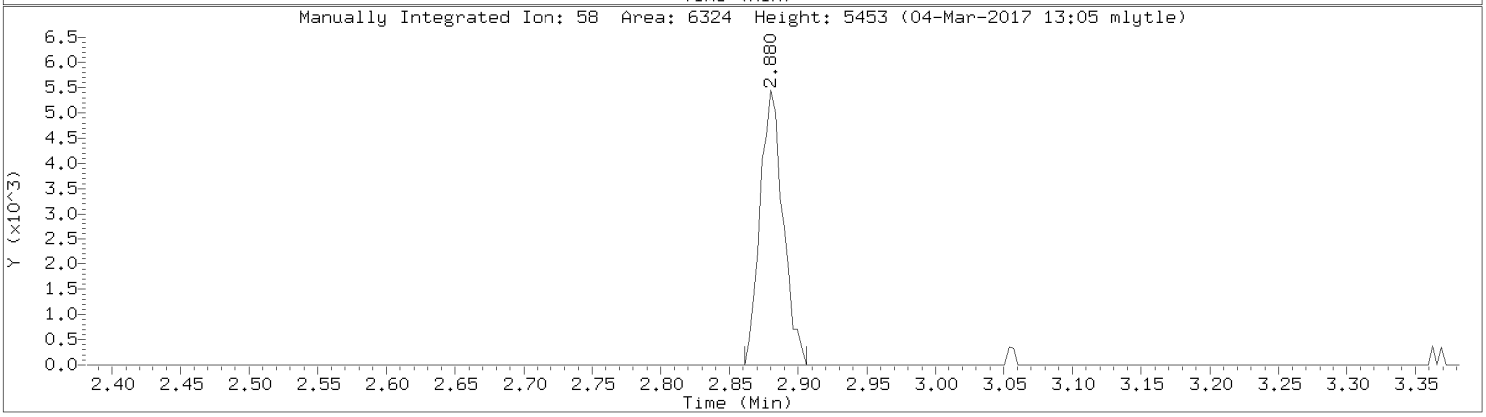
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Acetone
CAS Number: 67-64-1



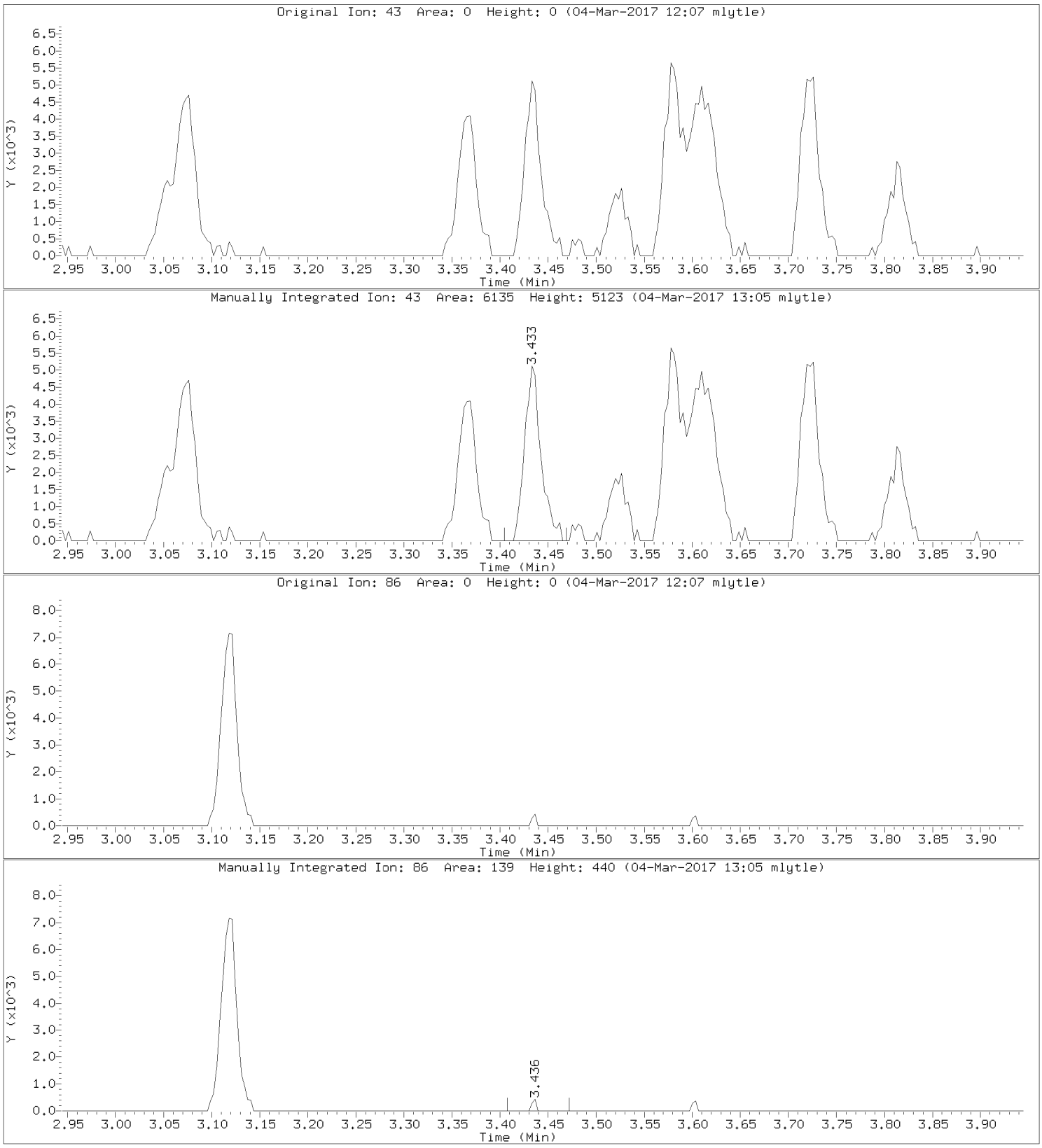






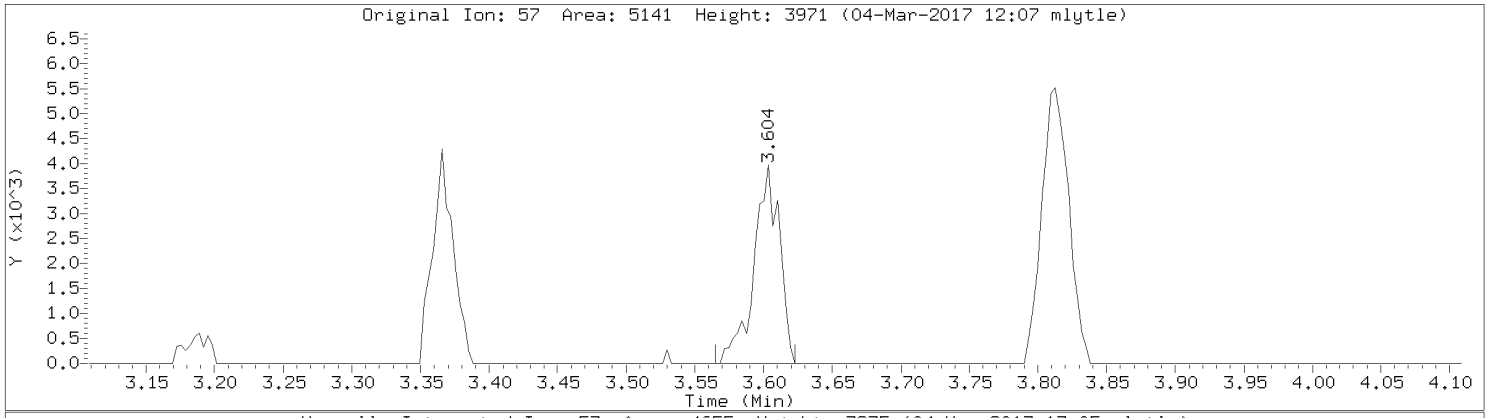
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

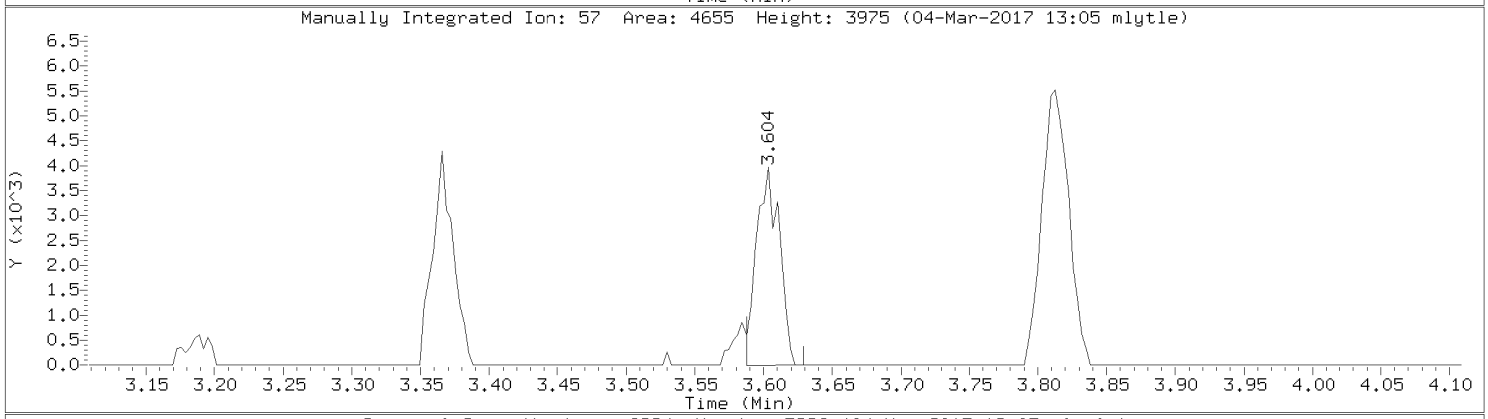
Compound: Vinyl Acetate
CAS Number: 108-05-4

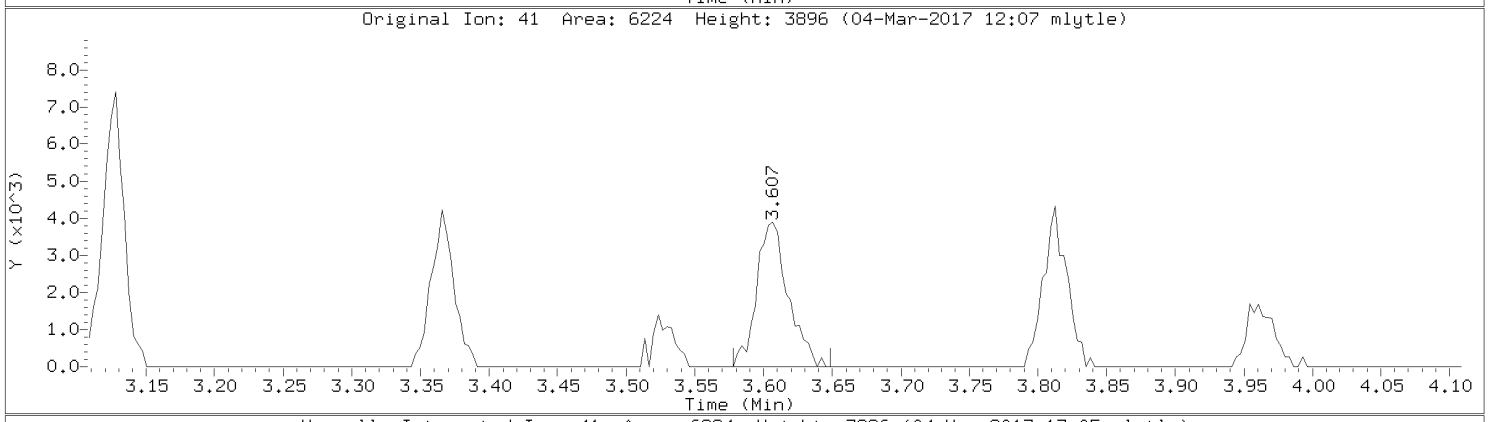


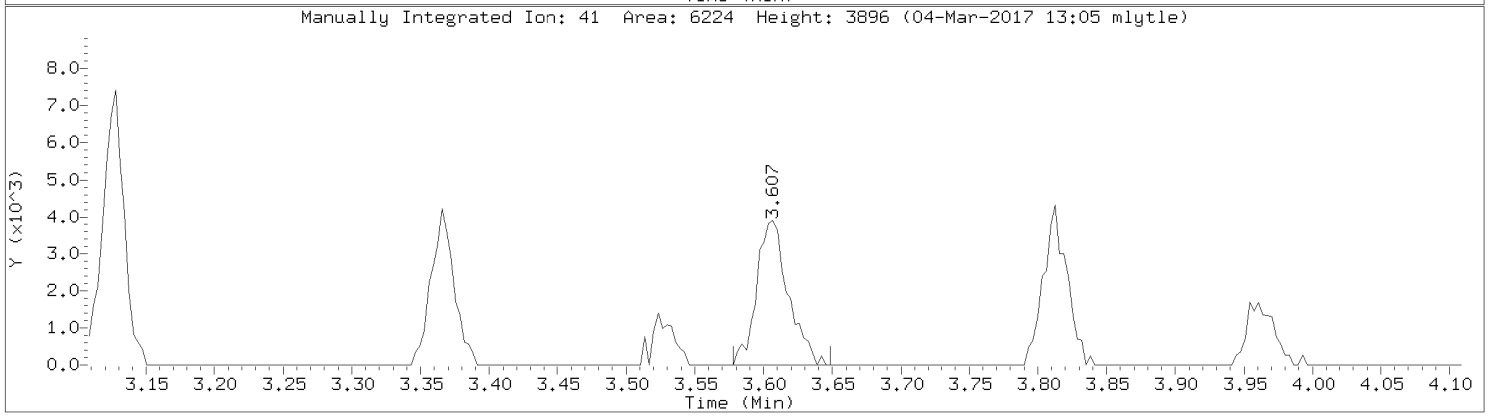
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: n-Hexane
CAS Number: 110-54-3

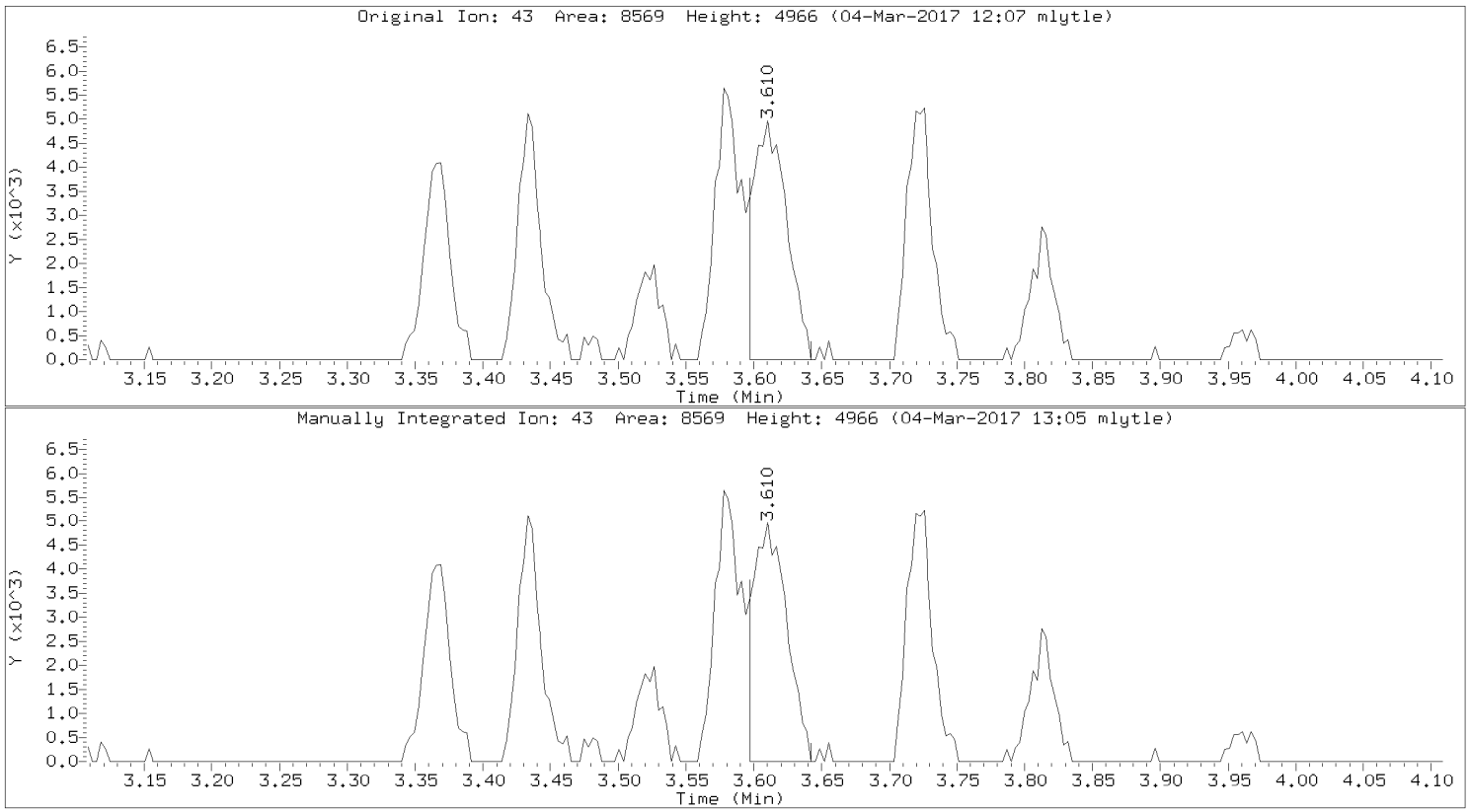






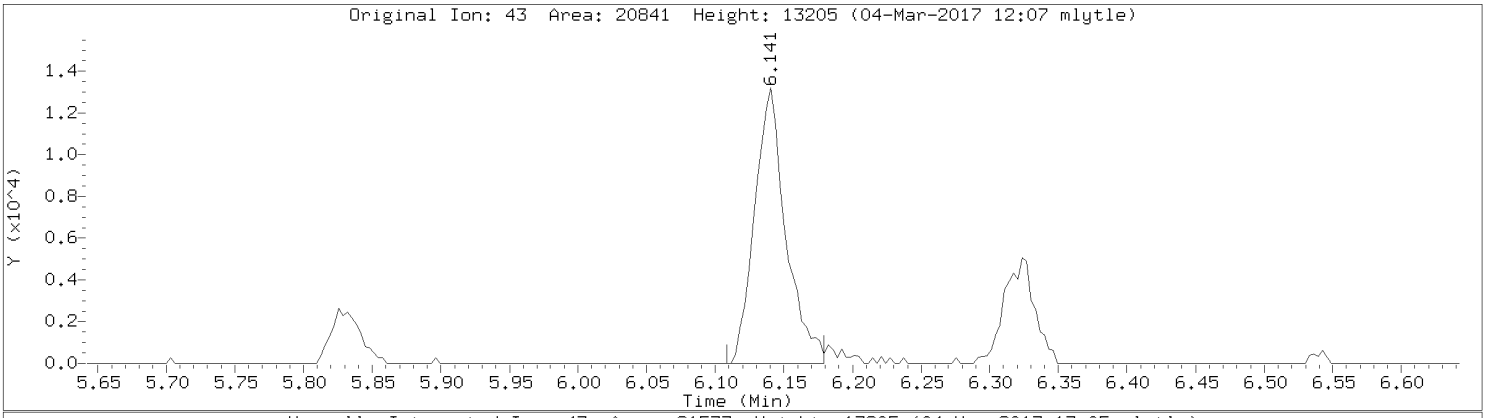


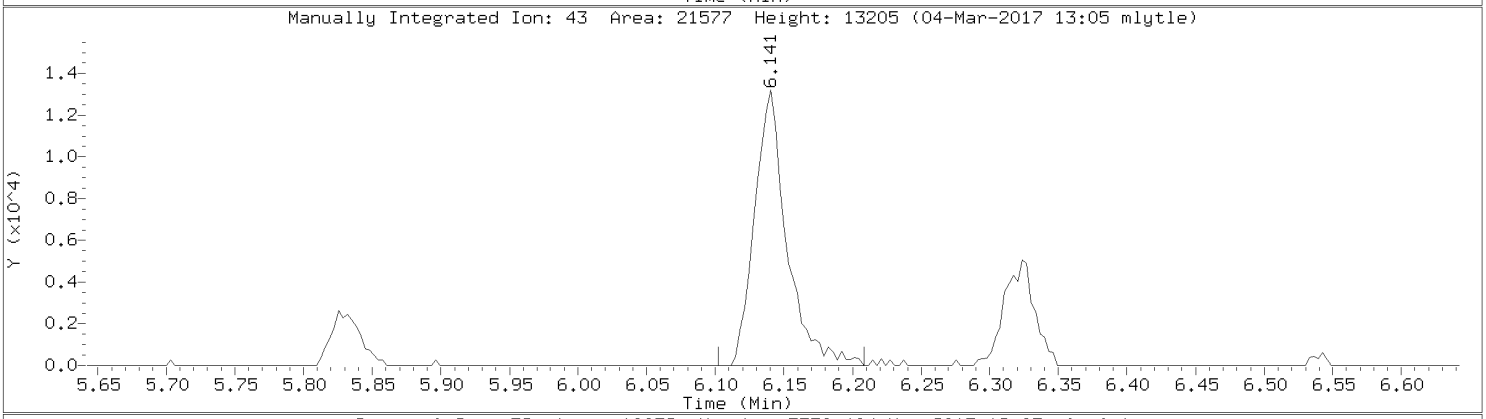
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

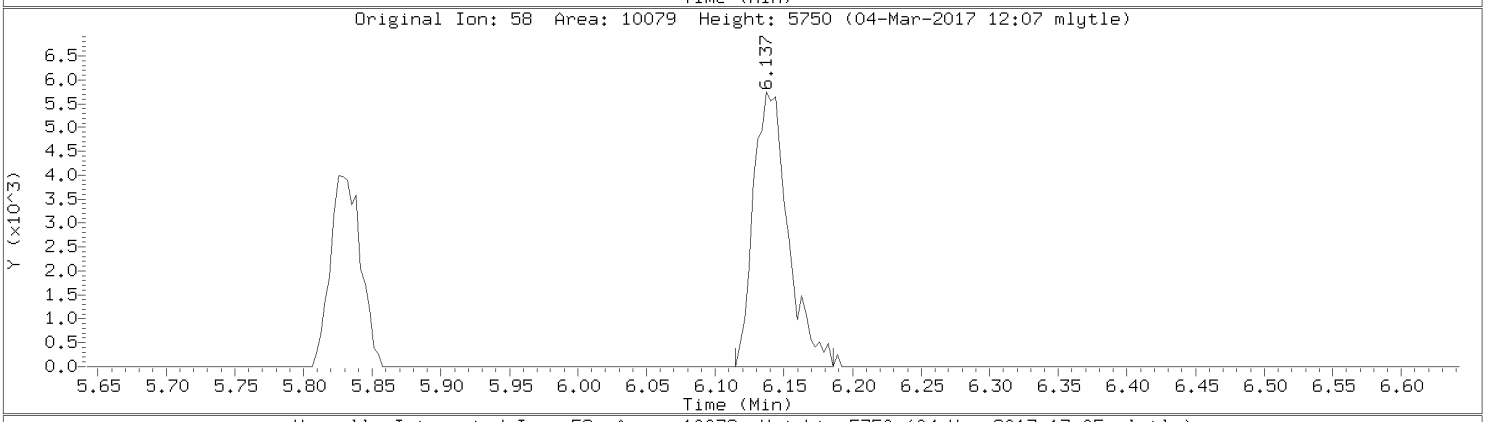


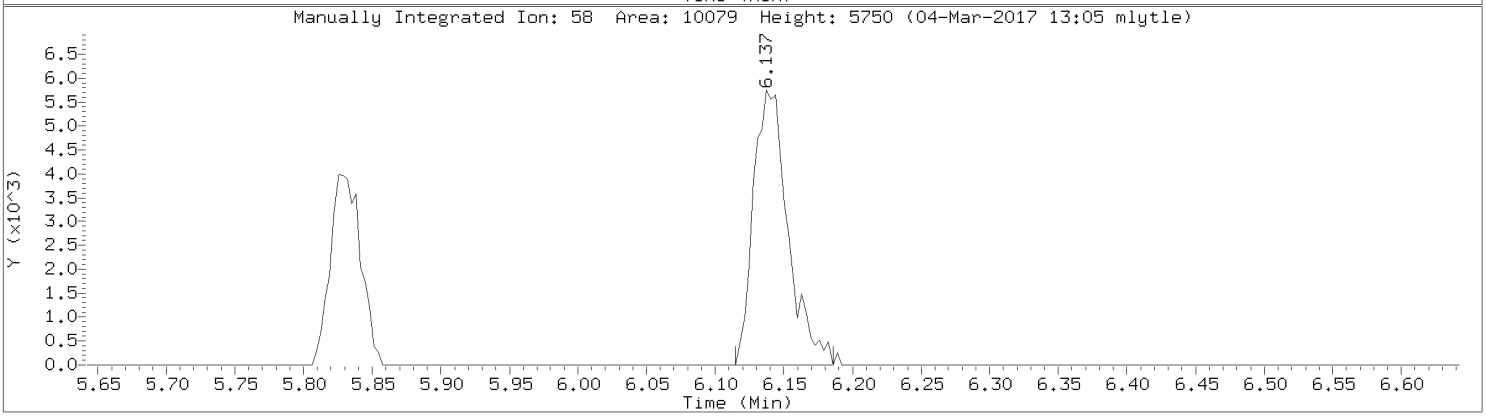
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Methyl Butyl Ketone
CAS Number: 591-78-6



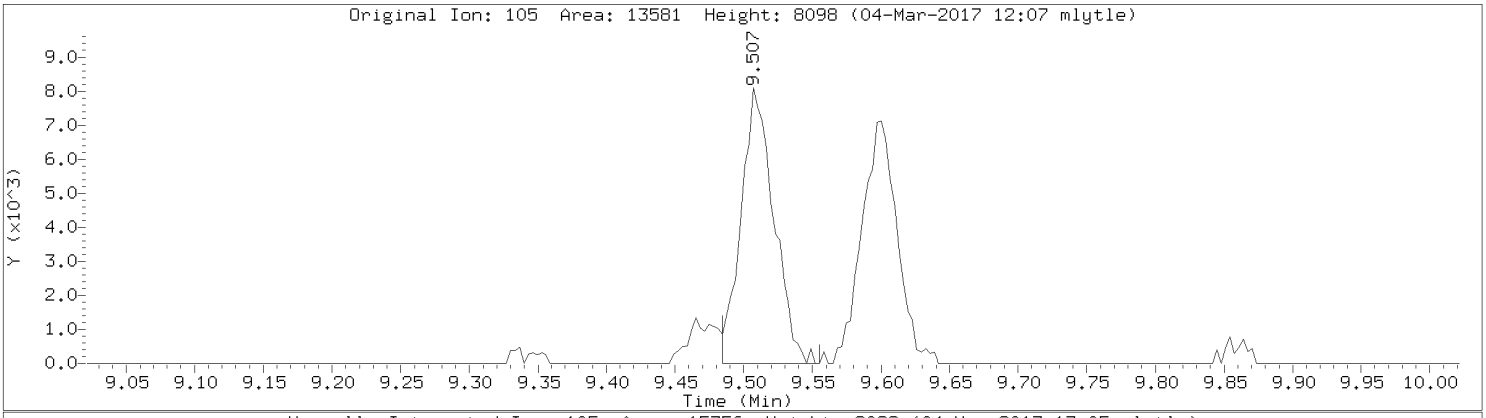


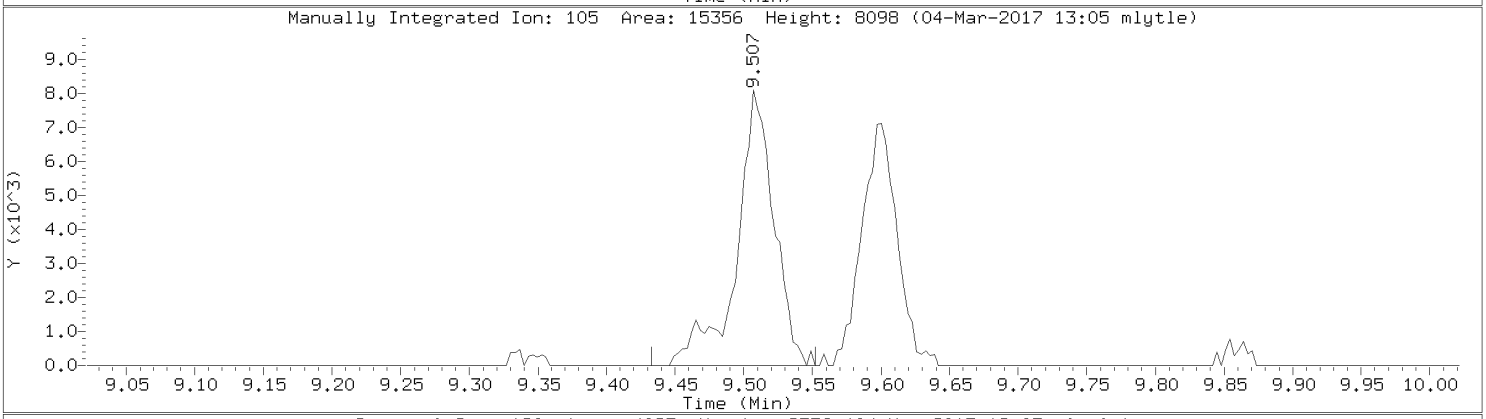


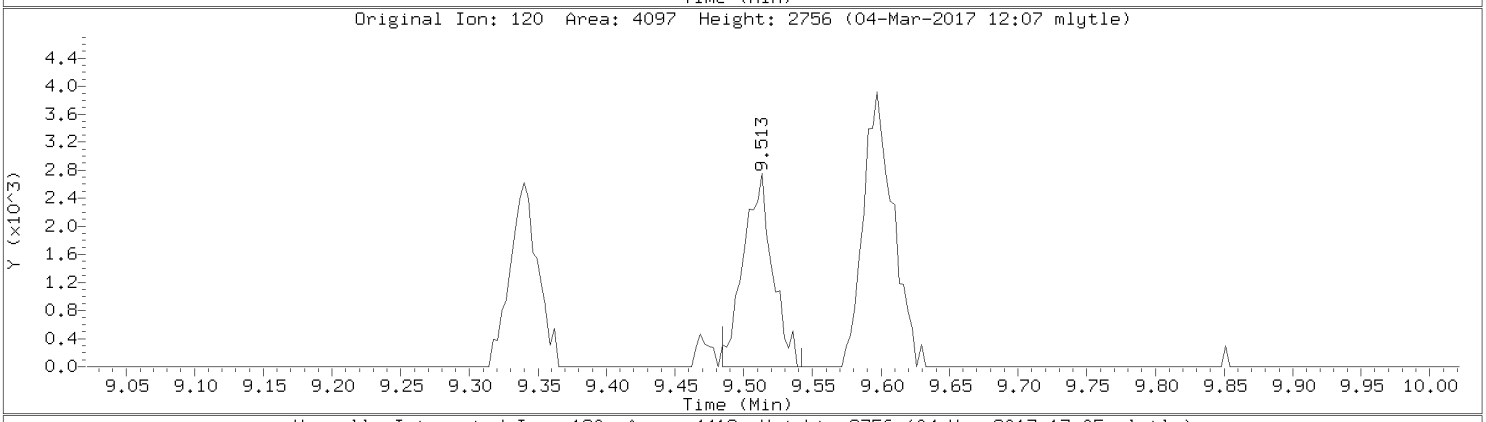


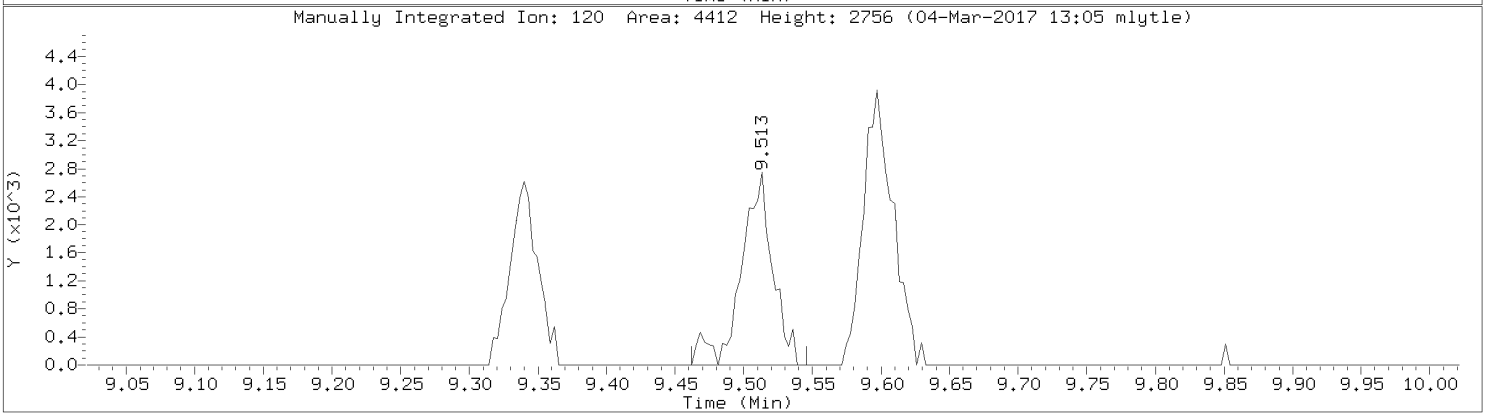
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

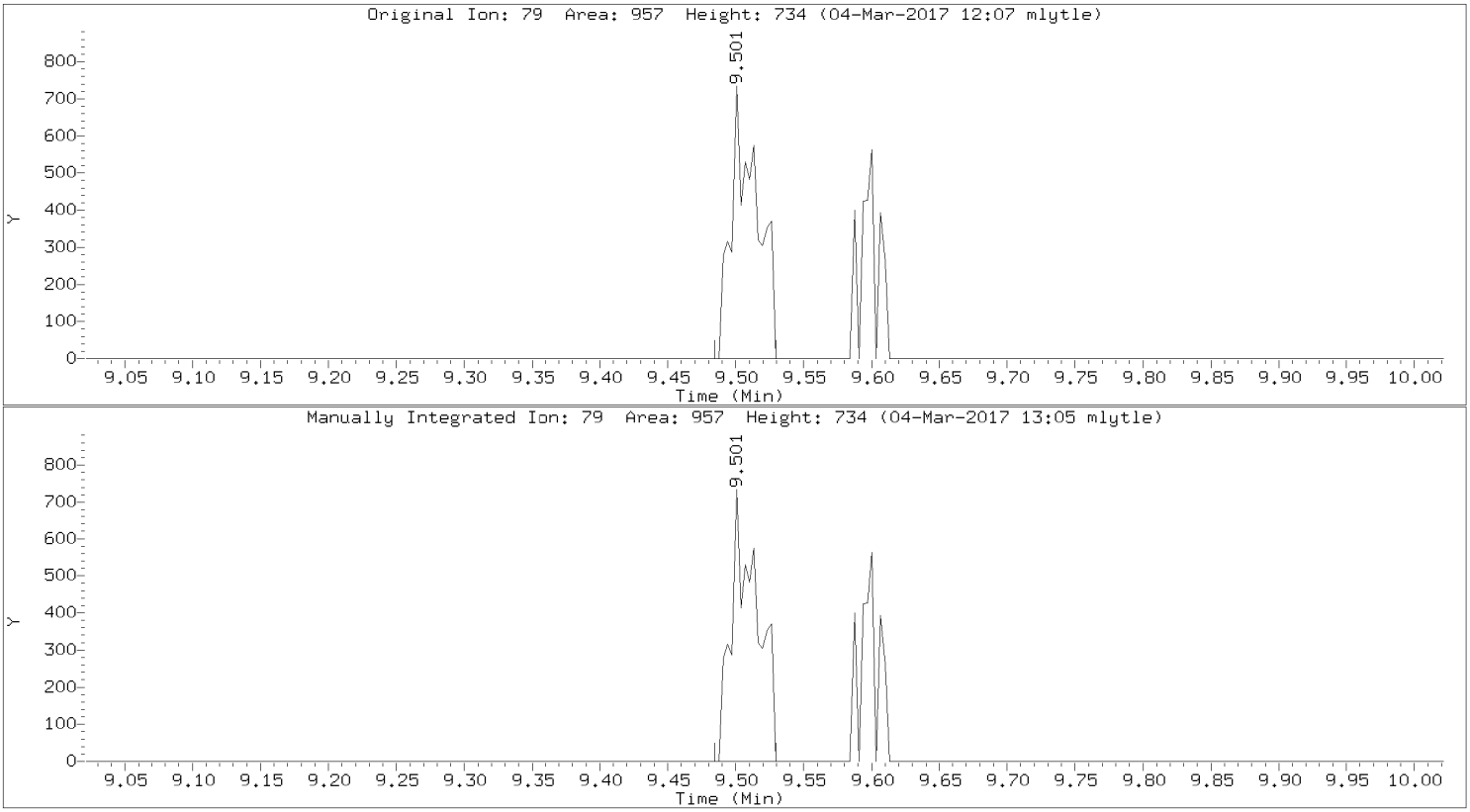






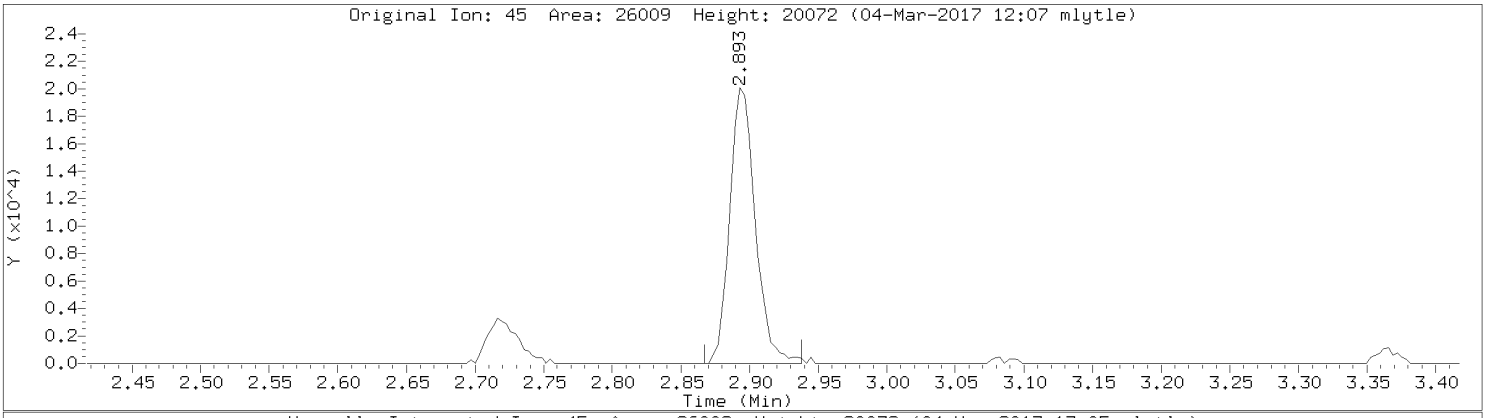


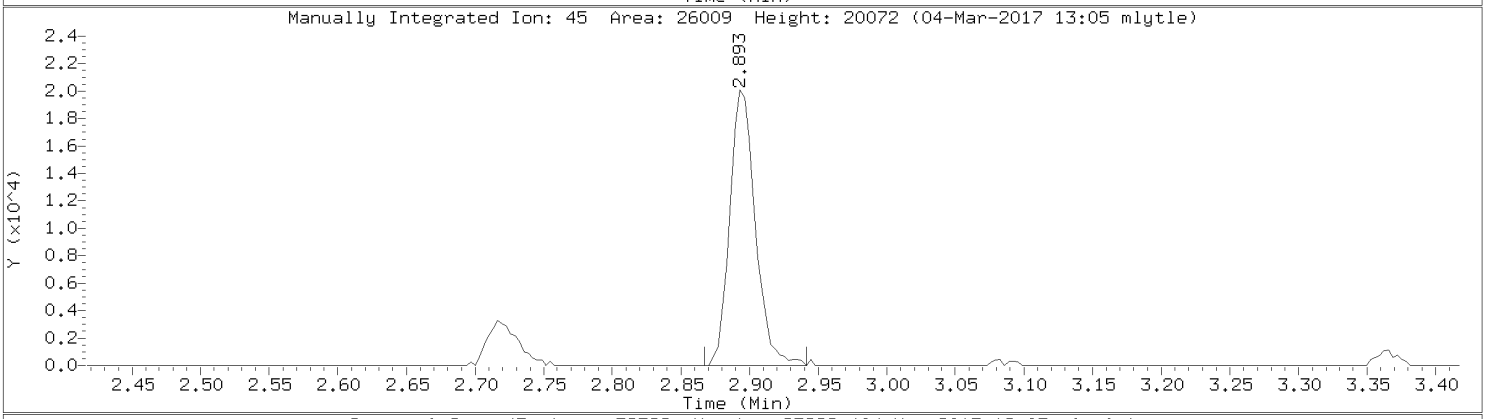
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

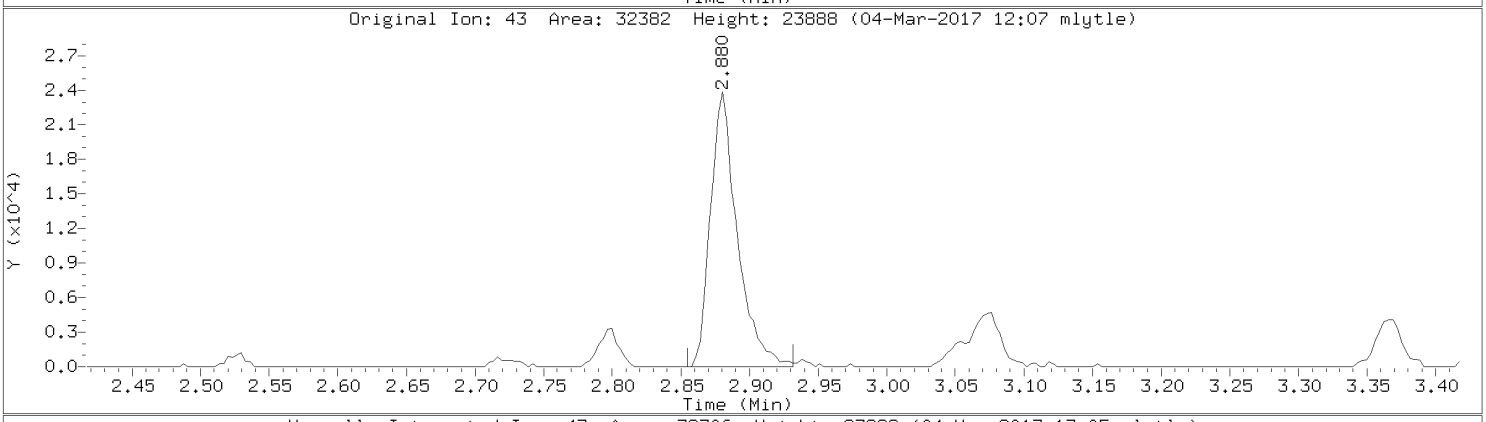


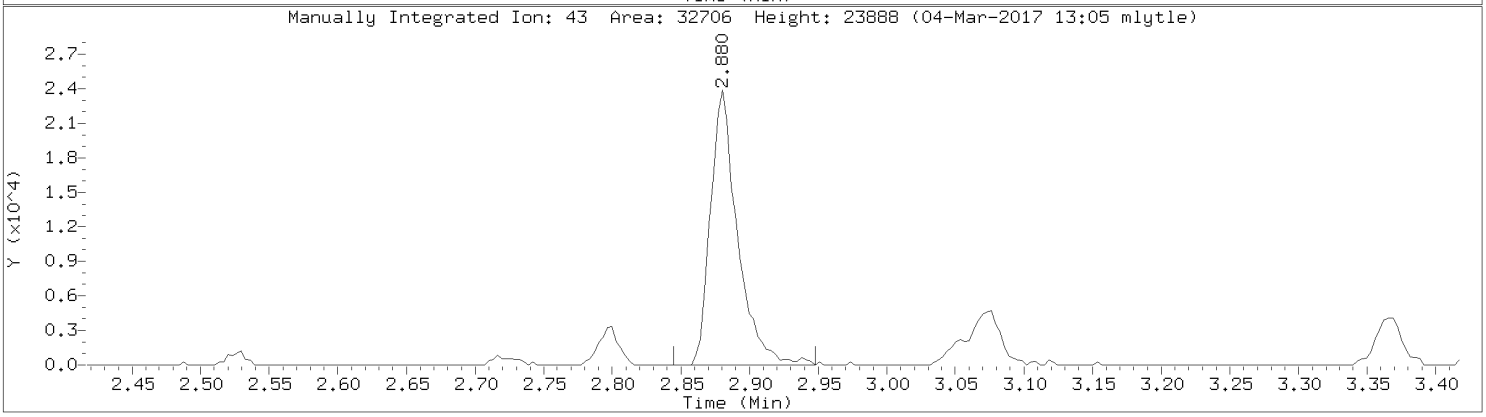
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



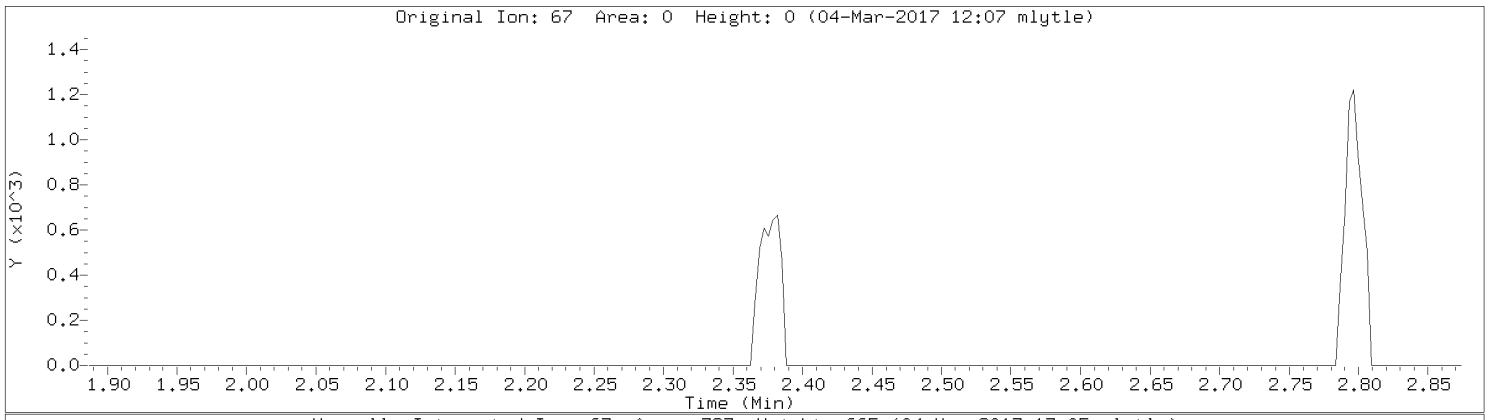


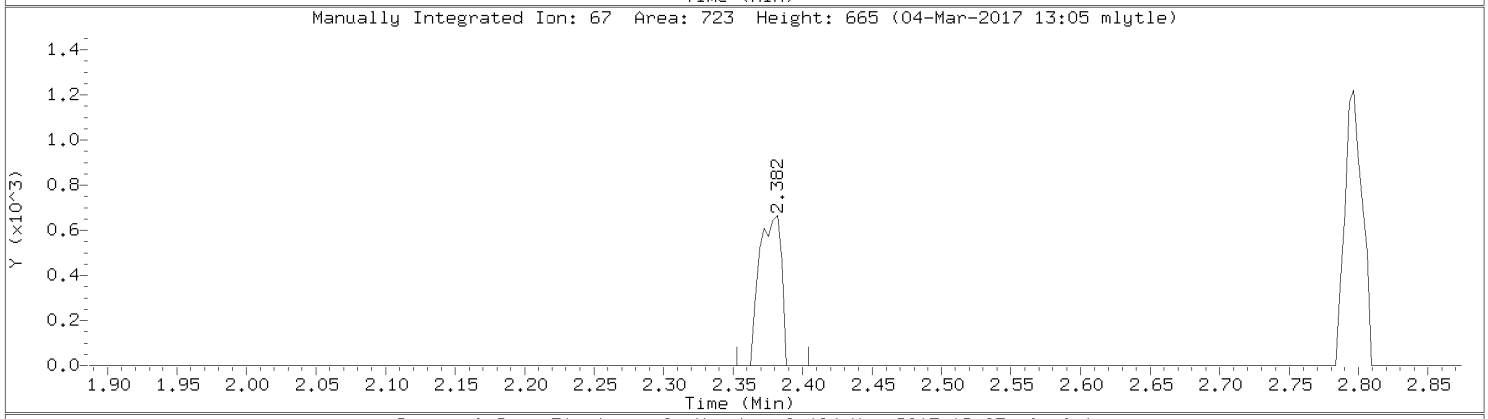


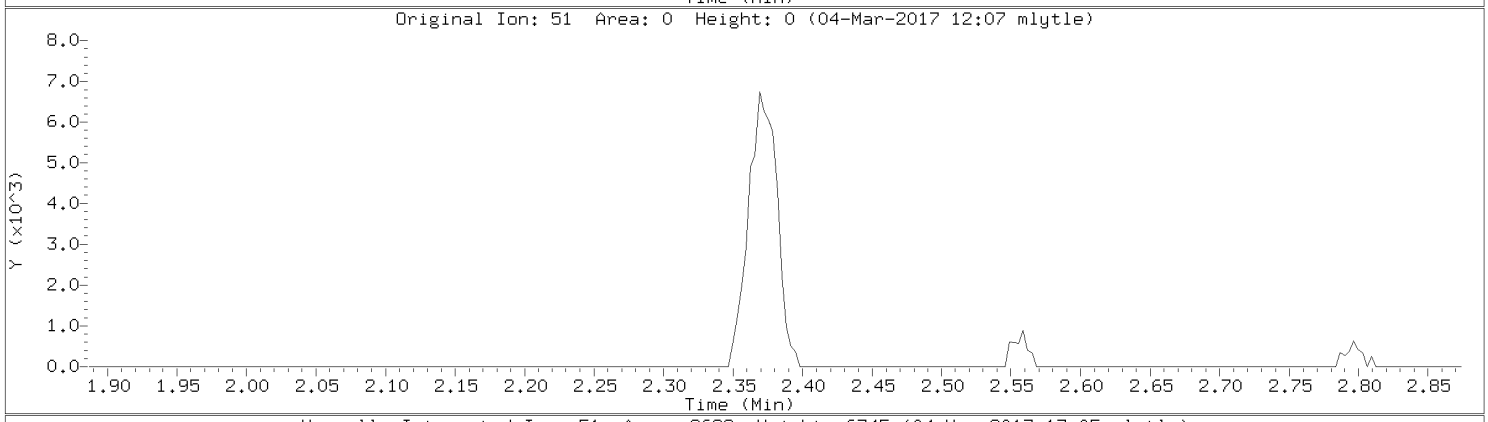


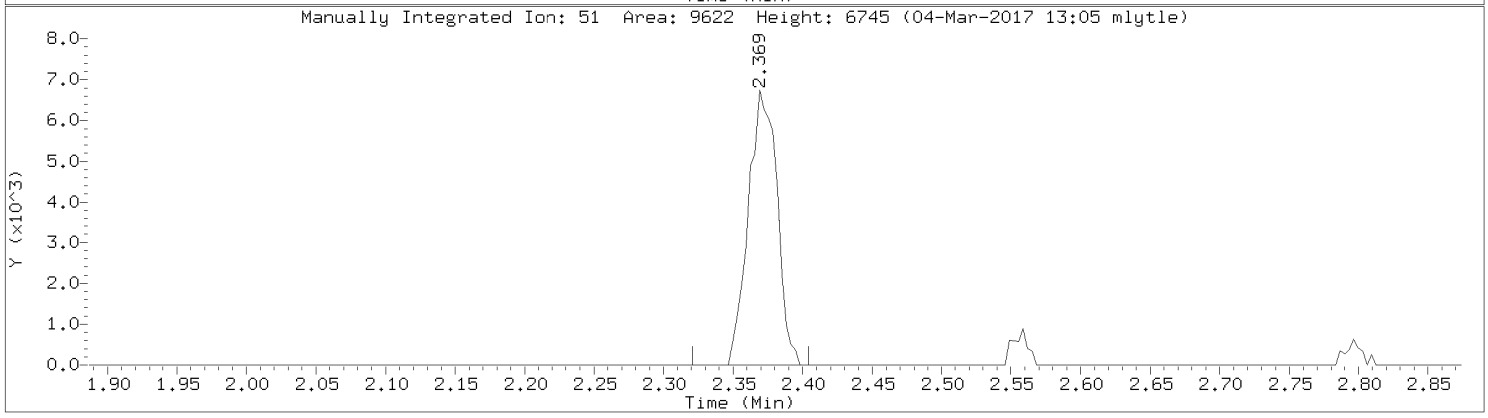
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

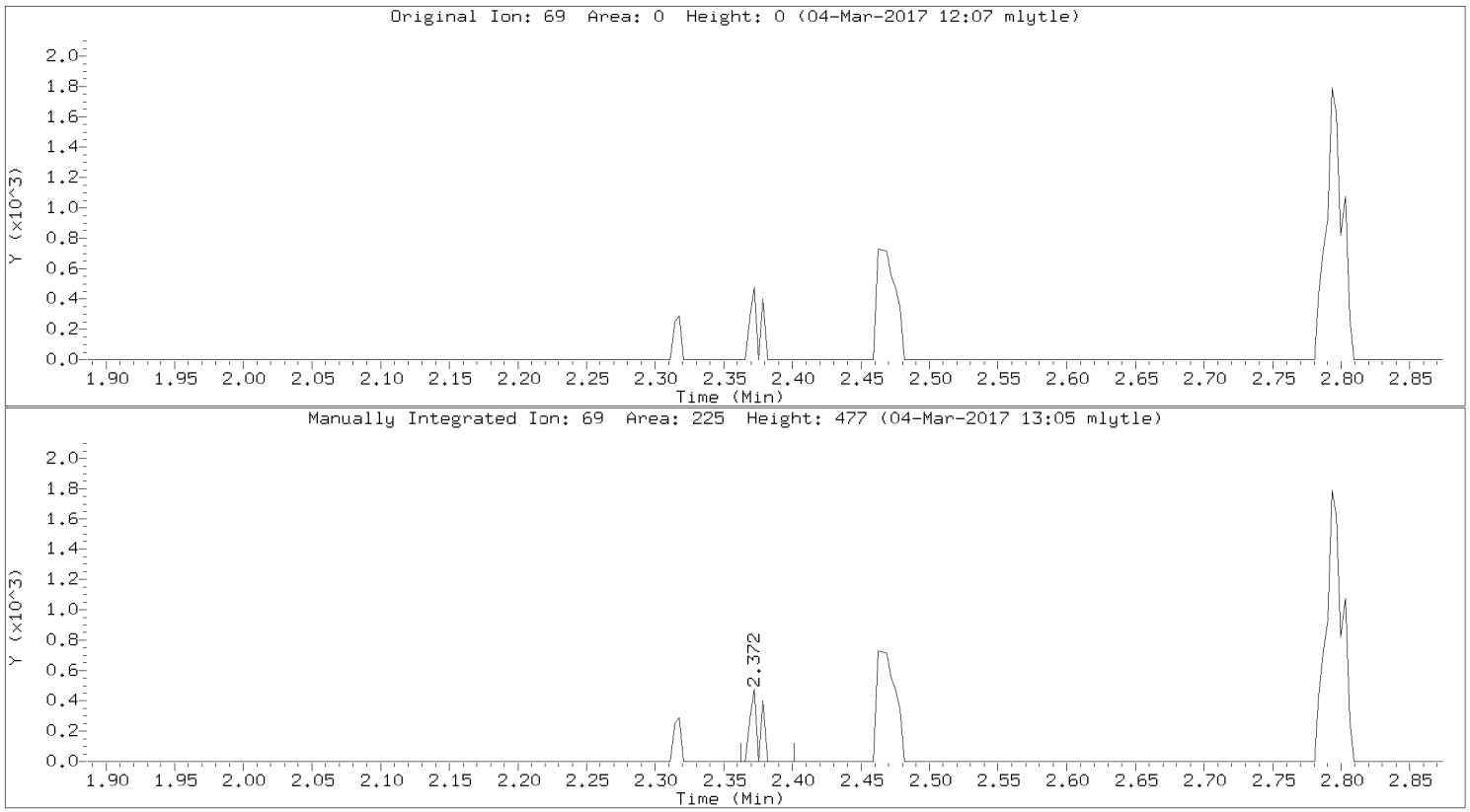






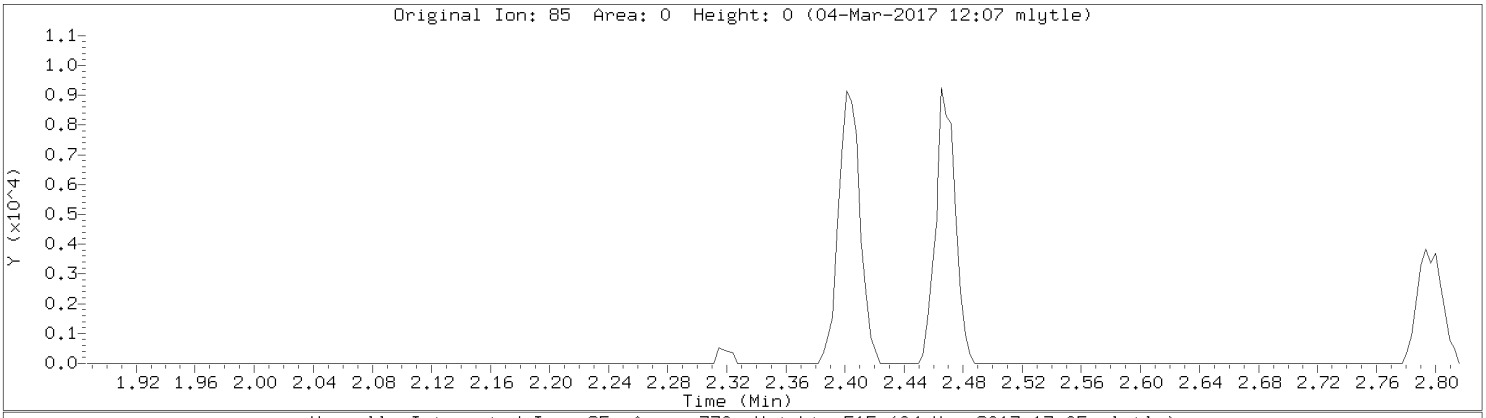


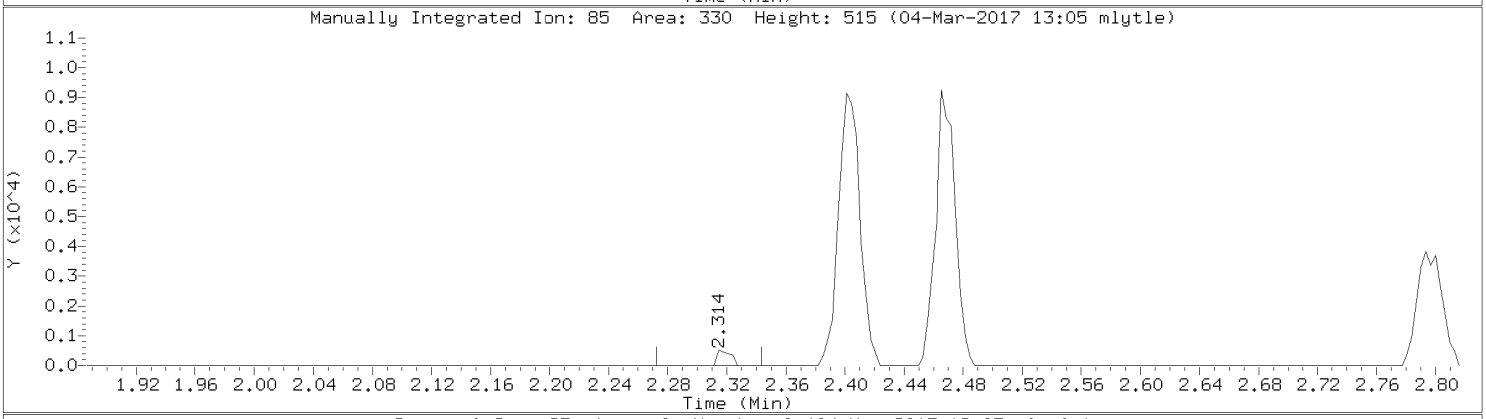
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

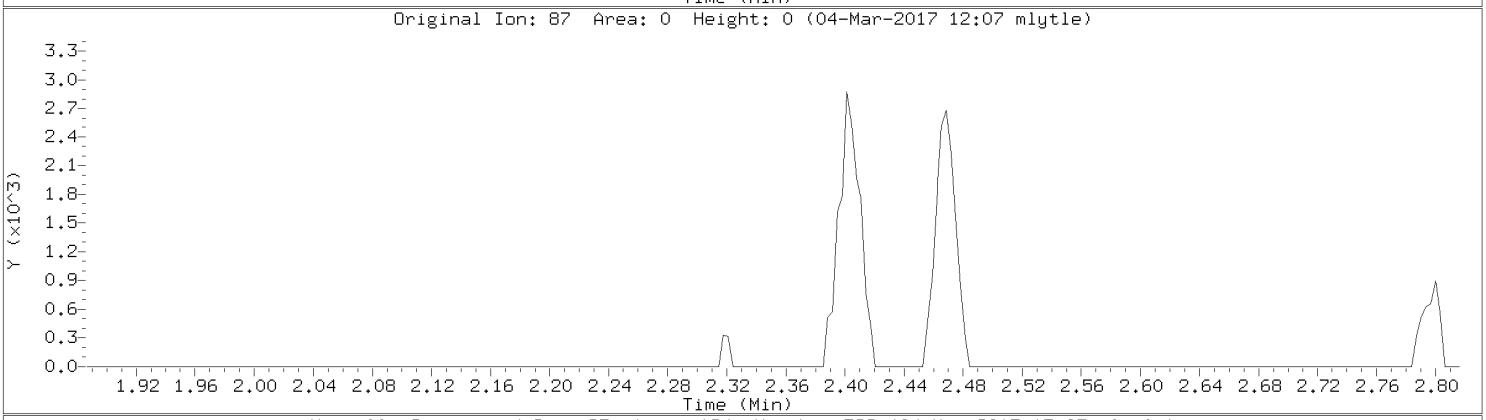


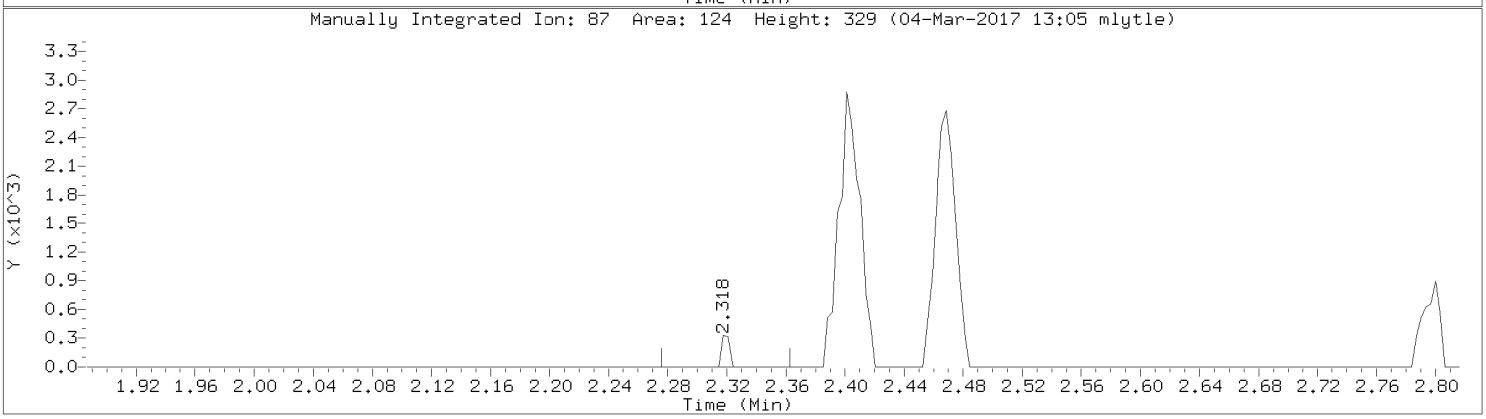
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Chloropentafluoroethane
CAS Number: 76-15-3

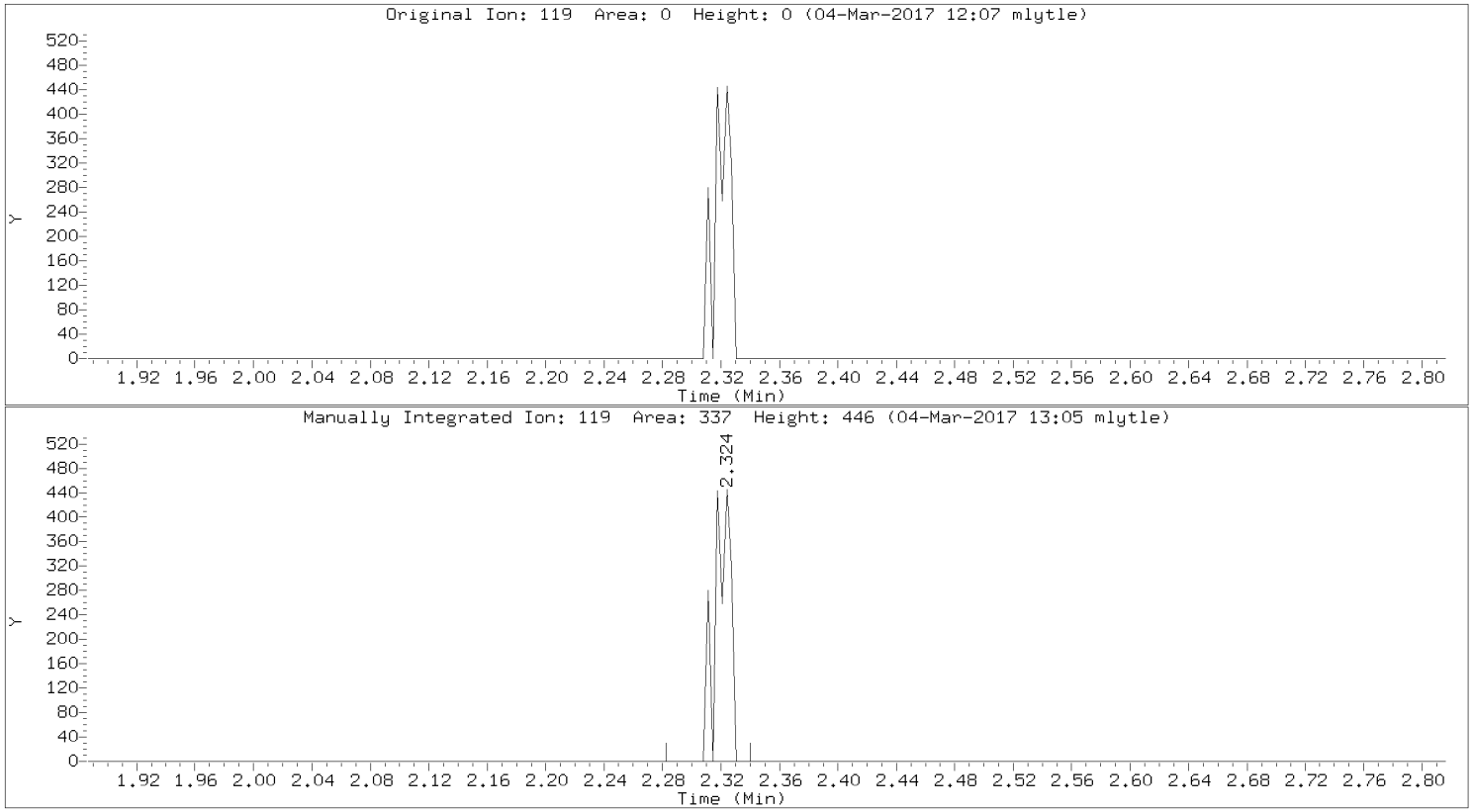






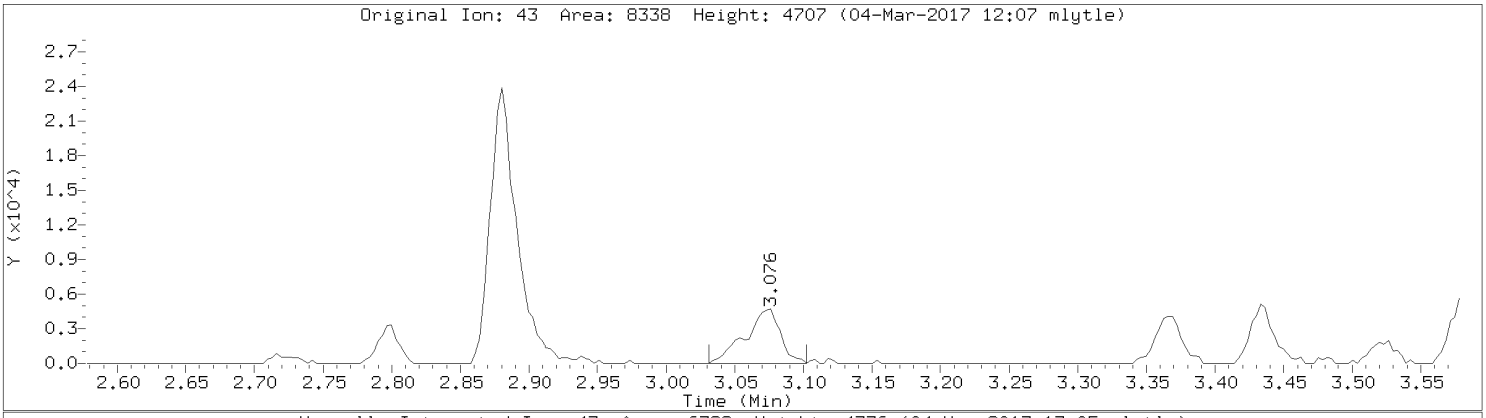


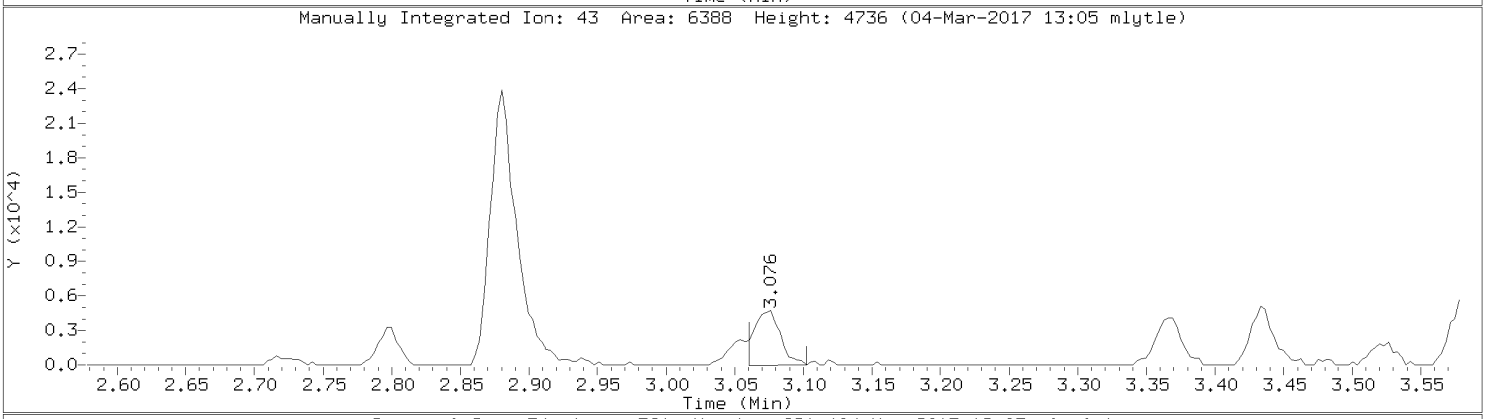
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

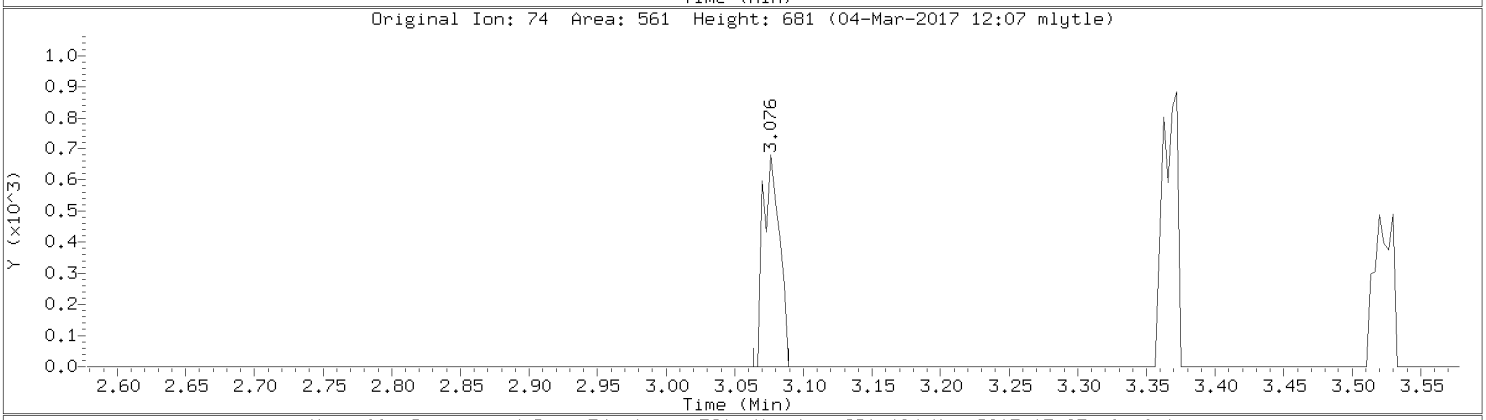


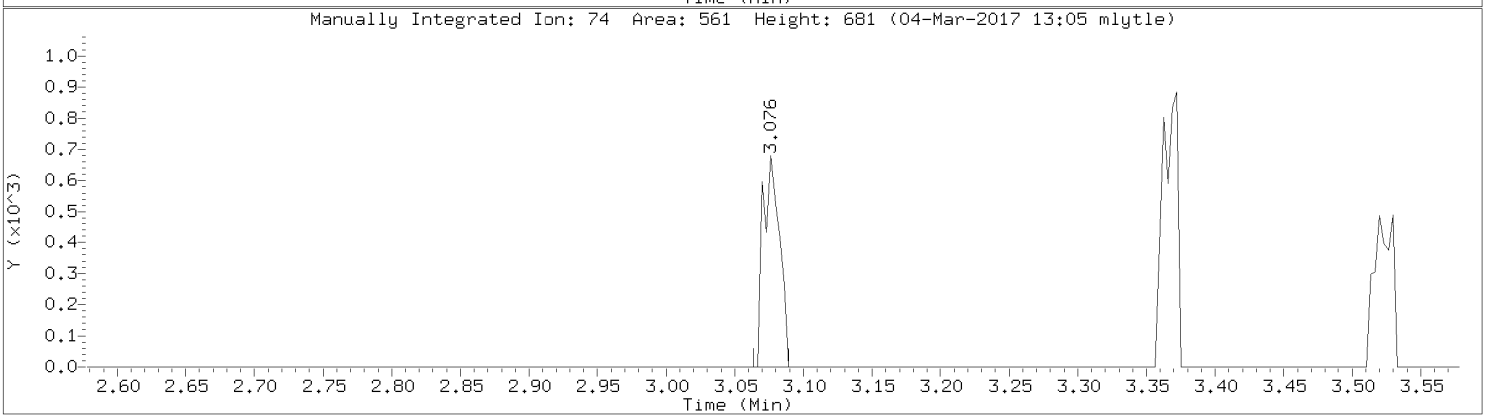
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Methyl Acetate
CAS Number: 79-20-9

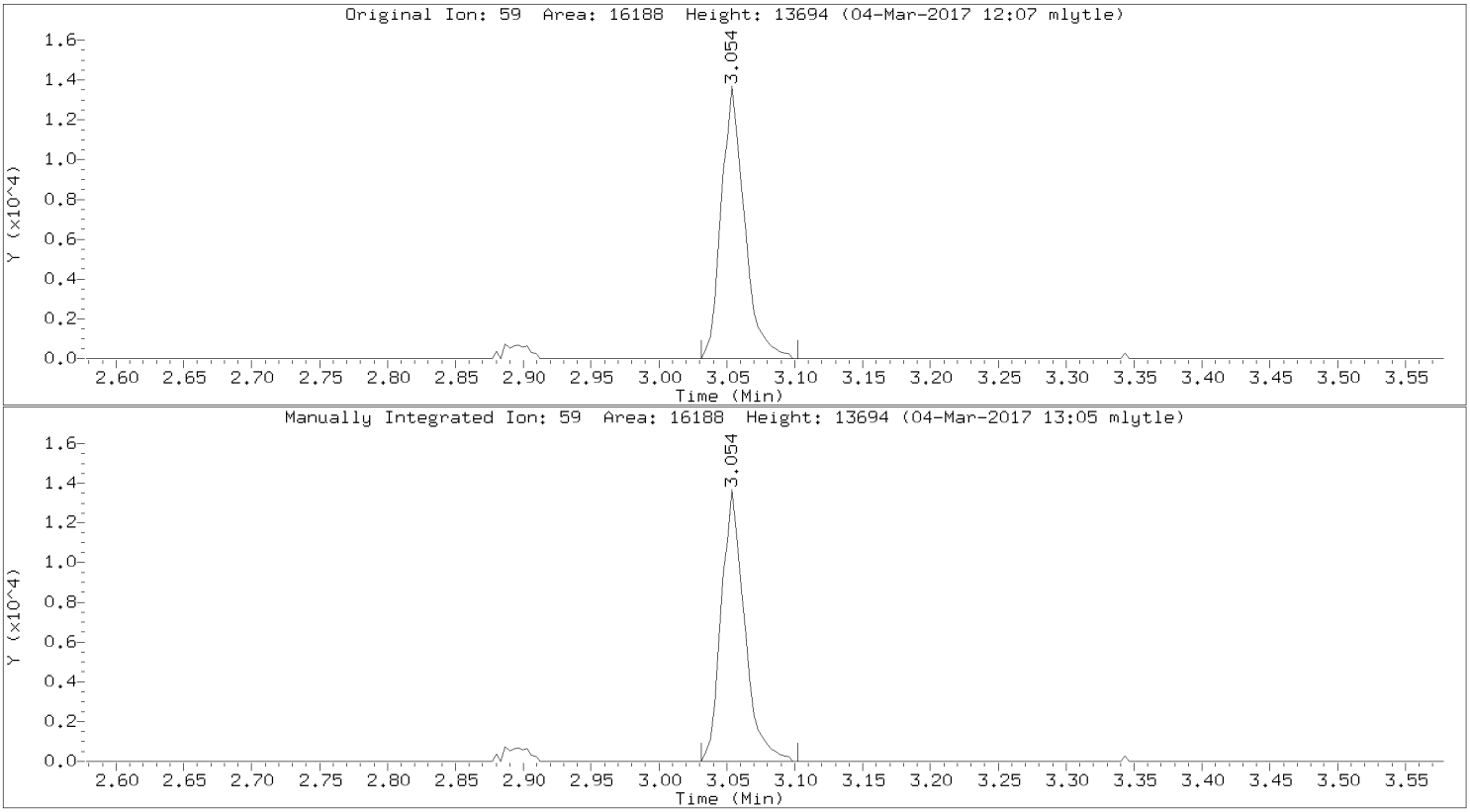








Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Report Date: 04-Mar-2017 13:06

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Lab Smp Id: CAL2
Inj Date : 04-MAR-2017 08:33
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:06 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 08:10 Cal File: 06304.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.314	2.314	(0.515)	7911	0.20000	(aQ)
2	1,1-Difluoroethane	65	2.359	2.359	(0.525)	2956	0.20000	0.207
3	Chlorodifluoromethane	67	2.365	2.365	(0.526)	1675	0.20000	0.227(QM)
4	Propylene	41	2.381	2.381	(0.530)	10787	0.20000	137(A)
5	Dichlorodifluoromethane	85	2.398	2.398	(0.533)	15960	0.20000	0.211
6	Chloromethane	50	2.462	2.462	(0.547)	6770	0.20000	0.218
7	Dichlorotetrafluoroethane	85	2.462	2.462	(0.547)	14931	0.20000	0.215
8	Vinyl chloride	62	2.523	2.523	(0.561)	4901	0.20000	0.215
9	1,3-Butadiene	54	2.549	2.549	(0.567)	3981	0.20000	0.238(Q)
10	Bromomethane	94	2.658	2.658	(0.591)	5329	0.20000	0.215
11	Chloroethane	64	2.690	2.690	(0.598)	2051	0.20000	0.230
12	Ethanol	45	2.709	2.709	(0.603)	7264	1.00000	1.10
13	Vinyl Bromide	106	2.783	2.783	(0.619)	5894	0.20000	0.230
14	Isopentane	43	2.793	2.793	(0.621)	5742	0.20000	0.230
15	Freon 123	83	2.790	2.790	(0.620)	12765	0.20000	0.223
16	Trichlorofluoromethane	101	2.854	2.854	(0.635)	16437	0.20000	0.219
17	Acrolein	56	2.844	2.844	(0.633)	2805	0.50000	0.453
18	Acetone	43	2.873	2.873	(0.639)	52936	1.00000	1.21
19	Isopropyl Alcohol	45	2.886	2.886	(0.642)	38677	1.00000	1.05
20	1,1-Dichloroethene	61	3.041	3.041	(0.676)	9455	0.20000	0.227
21	Acrylonitrile	53	3.041	3.041	(0.676)	9360	0.50000	0.551(M)
22	Freon 113	101	3.073	3.073	(0.683)	13029	0.20000	0.232
23	Tert Butyl Alcohol (TBA)	59	3.047	3.047	(0.678)	26304	0.50000	0.535

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Report Date: 04-Mar-2017 13:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.070	3.070	(0.683)	10735	0.20000	0.215(M)
	25 Methylene chloride	49	3.115	3.115	(0.693)	37669	1.00000	1.23
	26 Allyl Chloride	76	3.124	3.124	(0.695)	3269	0.50000	0.453(Q)
	27 Carbon Disulfide	76	3.217	3.217	(0.715)	12157	0.20000	0.230
	28 trans-1,2-dichloroethene	96	3.333	3.333	(0.741)	5179	0.20000	0.232
	29 Methyl Tert Butyl Ether	73	3.359	3.359	(0.747)	34276	0.50000	0.568
	30 Vinyl Acetate	43	3.433	3.433	(0.763)	9972	0.20000	0.190
	31 1,1-Dichloroethane	63	3.443	3.443	(0.766)	10465	0.20000	0.239
$	32 Hexane-d14(S)	66	3.516	3.516	(0.782)	279083	10.0000	10.5
	33 Methyl Ethyl Ketone	72	3.571	3.571	(0.794)	1762	0.20000	0.213
	34 n-Hexane	57	3.600	3.600	(0.801)	7426	0.20000	0.227(M)
	35 Di-isopropyl Ether	45	3.616	3.616	(0.804)	19723	0.20000	0.242
	36 cis-1,2-Dichloroethene	96	3.713	3.713	(0.826)	5077	0.20000	0.210
	37 Ethyl Acetate	43	3.716	3.716	(0.826)	12070	0.20000	0.233
	38 Ethyl Tert-Butyl Ether	59	3.809	3.809	(0.847)	42915	0.50000	0.565
	39 Chloroform	83	3.809	3.809	(0.847)	11671	0.20000	0.217
	40 Tetrahydrofuran	42	3.954	3.954	(0.879)	5438	0.20000	0.215
	41 1,1,1-Trichloroethane	97	4.153	4.153	(0.923)	14596	0.20000	0.221
	42 1,2-Dichloroethane	62	4.160	4.160	(0.925)	10019	0.20000	0.226
	43 Benzene	78	4.356	4.356	(0.969)	17296	0.20000	0.230
	44 Carbon tetrachloride	117	4.378	4.378	(0.974)	14654	0.20000	0.203
	45 Cyclohexane	56	4.381	4.381	(0.974)	8850	0.20000	0.234
	46 Tert Amyl Methyl Ether	73	4.497	4.497	(1.000)	25344	0.20000	0.0170(a)
*	47 1,4-Difluorobenzene	114	4.497	4.497	(1.000)	972137	10.0000	
	48 2,2,4-Trimethylpentane	57	4.632	4.632	(1.030)	71954	0.50000	0.595
	49 Heptane	43	4.748	4.748	(1.056)	11688	0.20000	0.237
	50 1,2-Dichloropropane	63	4.806	4.806	(1.069)	6736	0.20000	0.232
	51 Trichloroethene	130	4.832	4.832	(1.074)	10399	0.20000	0.227
	52 Methyl methacrylate	69	4.899	4.899	(1.089)	4912	0.20000	0.218
	53 Bromodichloromethane	83	4.918	4.918	(1.094)	12844	0.20000	0.203
	54 1,4-Dioxane	88	4.922	4.922	(1.094)	2433	0.20000	0.195
	55 Methylcyclohexane	98	5.224	5.224	(1.162)	3659	0.20000	0.224(Q)
	56 Methyl Isobutyl Ketone	43	5.343	5.343	(1.188)	37400	0.50000	0.568
	57 cis-1,3-Dichloropropene	75	5.391	5.391	(1.199)	9049	0.20000	0.213
	58 trans-1,3-Dichloropropene	75	5.761	5.761	(1.281)	7582	0.20000	0.198
$	59 Toluene-d8 (S)	98	5.828	5.828	(1.296)	821695	10.0000	10.1
	60 Toluene	91	5.902	5.902	(1.312)	20555	0.20000	0.224
	61 1,1,2-Trichloroethane	97	5.899	5.899	(1.312)	7716	0.20000	0.223
	62 Methyl Butyl Ketone	43	6.134	6.134	(0.840)	32212	0.50000	0.559
	63 n-Octane	43	6.320	6.320	(0.865)	14384	0.20000	0.240
	64 Dibromochloromethane	129	6.388	6.388	(0.875)	13721	0.20000	0.197
	65 1,2-Dibromoethane	107	6.610	6.610	(0.905)	11437	0.20000	0.209
	66 Tetrachloroethene	166	6.677	6.677	(0.914)	13658	0.20000	0.229
*	67 Chlorobenzene - d5	117	7.304	7.304	(1.000)	600501	10.0000	
	68 Chlorobenzene	112	7.346	7.346	(1.006)	16201	0.20000	0.224
	69 Ethyl Benzene	91	7.593	7.593	(1.040)	25431	0.20000	0.227
	70 m&p-Xylene	91	7.735	7.735	(1.059)	38821	0.40000	0.441
	71 Bromoform	173	8.108	8.108	(1.110)	9244	0.20000	0.163
	72 n-Nonane	43	8.130	8.130	(1.113)	11807	0.20000	0.220
	73 Styrene	104	8.143	8.143	(1.115)	12047	0.20000	0.210
	74 o-Xylene	91	8.208	8.208	(1.124)	19623	0.20000	0.223
	75 1,1,2,2-Tetrachloroethane	83	8.462	8.462	(1.158)	11254	0.20000	0.212
	76 Isopropylbenzene	105	8.777	8.777	(1.202)	27182	0.20000	0.225
	77 N-Propylbenzene	91	9.339	9.339	(1.279)	26489	0.20000	0.215

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Report Date: 04-Mar-2017 13:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	9.507	9.507	(1.302)	22058	0.20000	0.206
79	1,3,5-Trimethylbenzene	105	9.597	9.597	(1.314)	18943	0.20000	0.208
80	n-Decane	57	9.995	9.995	(2.222)	8424	0.20000	0.195
81	Tert-Butyl Benzene	119	10.092	10.092	(1.382)	21047	0.20000	0.216
82	1,2,4-Trimethylbenzene	105	10.111	10.111	(1.384)	17993	0.20000	0.230
83	1,3-Dichlorobenzene	146	10.410	10.410	(1.425)	10412	0.20000	0.197
84	Sec- Butylbenzene	105	10.436	10.436	(1.429)	24941	0.20000	0.211
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.484	10.484	(1.435)	208239	10.0000	8.48
86	Benzyl Chloride	91	10.500	10.500	(1.438)	6472	0.20000	0.162
87	1,4-Dichlorobenzene	146	10.516	10.516	(1.440)	9436	0.20000	0.194
88	p-Isopropyltoluene	119	10.661	10.661	(1.460)	19437	0.20000	0.201(M)
89	1,2,3-Trimethylbenzene	105	10.699	10.699	(1.465)	16535	0.20000	0.207
90	1,2-Dichlorobenzene	146	10.999	10.999	(1.506)	9489	0.20000	0.203
91	N-Butylbenzene	91	11.256	11.256	(1.541)	12272	0.20000	0.189
92	1,2-Dibromo-3-Chloropropane	157	11.777	11.777	(1.612)	1979	0.20000	0.178
93	1,2,4-Trichlorobenzene	180	13.043	13.043	(1.786)	1265	0.20000	0.293
94	Naphthalene	128	13.166	13.166	(1.802)	2805	0.20000	0.0399(aM)
95	Hexachlorobutadiene	225	13.426	13.426	(1.838)	3869	0.20000	162(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Report Date: 04-Mar-2017 13:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06305.D
Lab Smp Id: CAL2
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

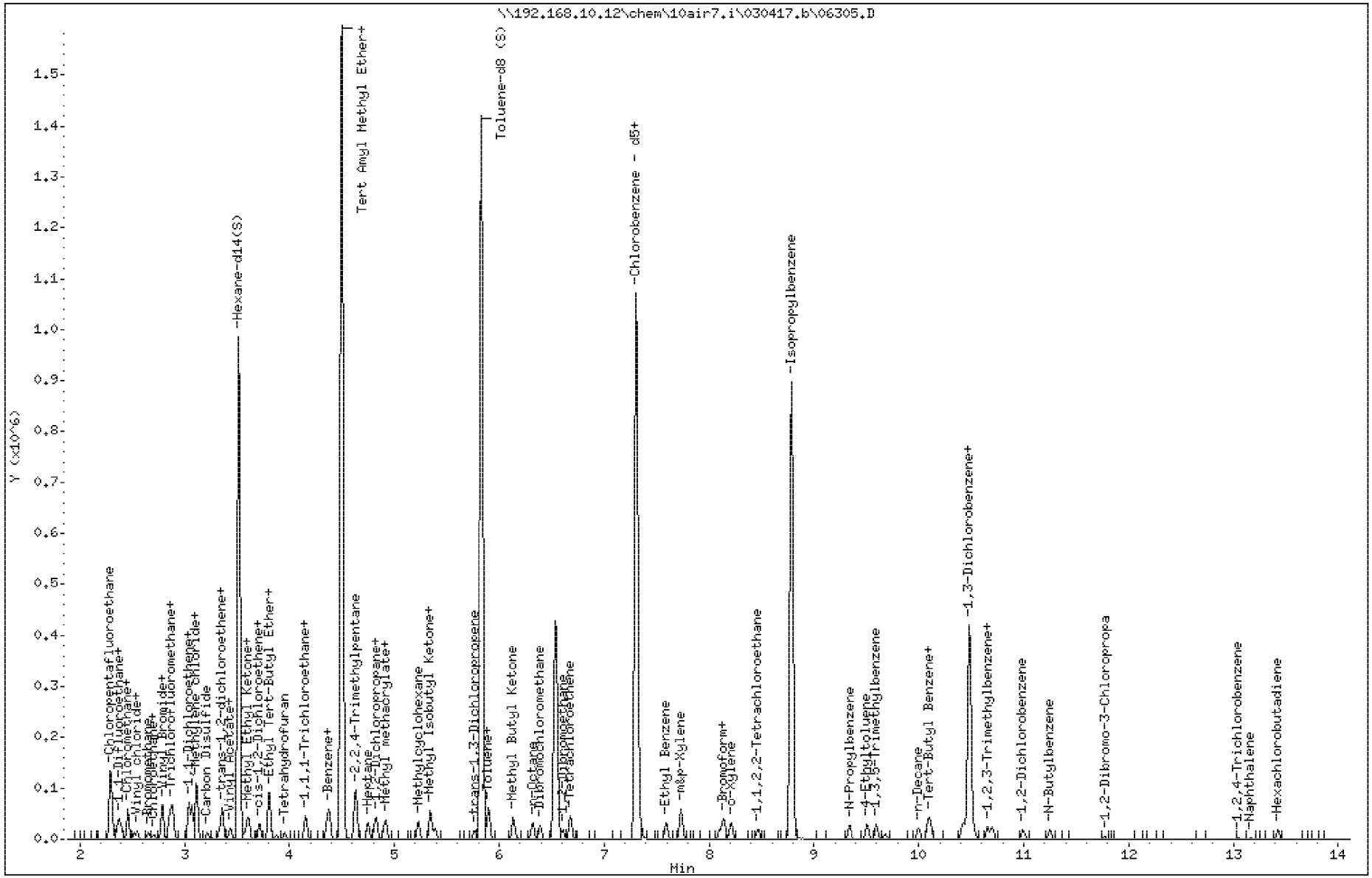
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	972137	16.29
67 Chlorobenzene - d	539522	323713	755331	600501	11.30

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.22
67 Chlorobenzene - d	7.31	6.98	7.64	7.30	-0.13

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

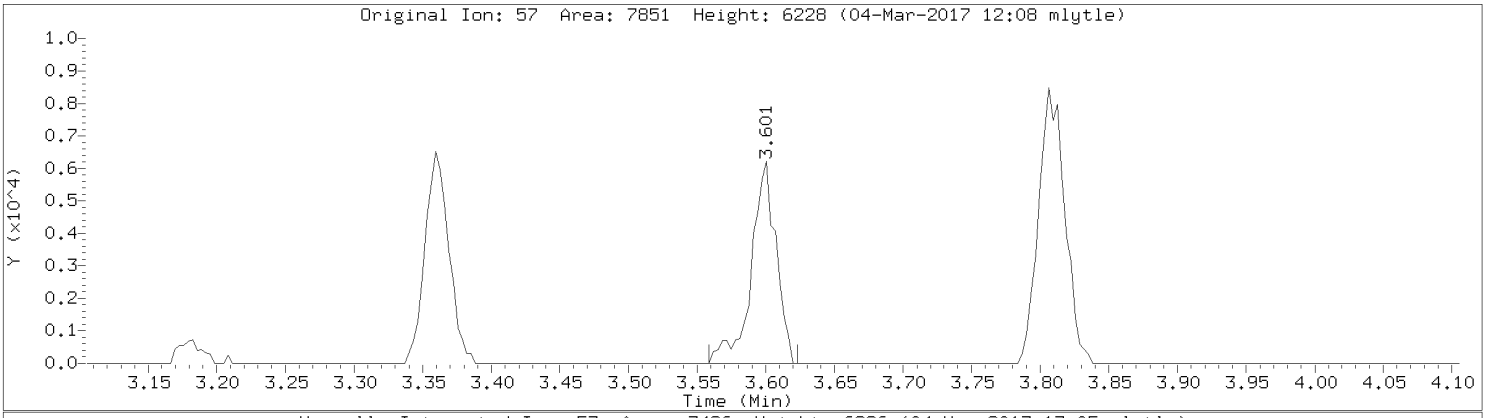
Data File: \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Date : 04-MAR-2017 08:33
Client ID:
Sample Info:

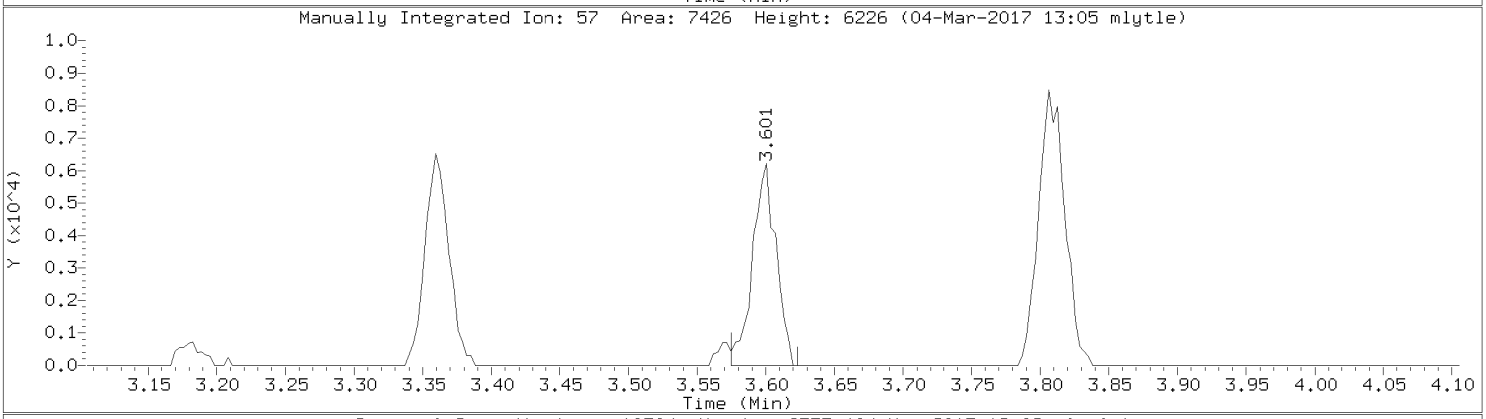
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

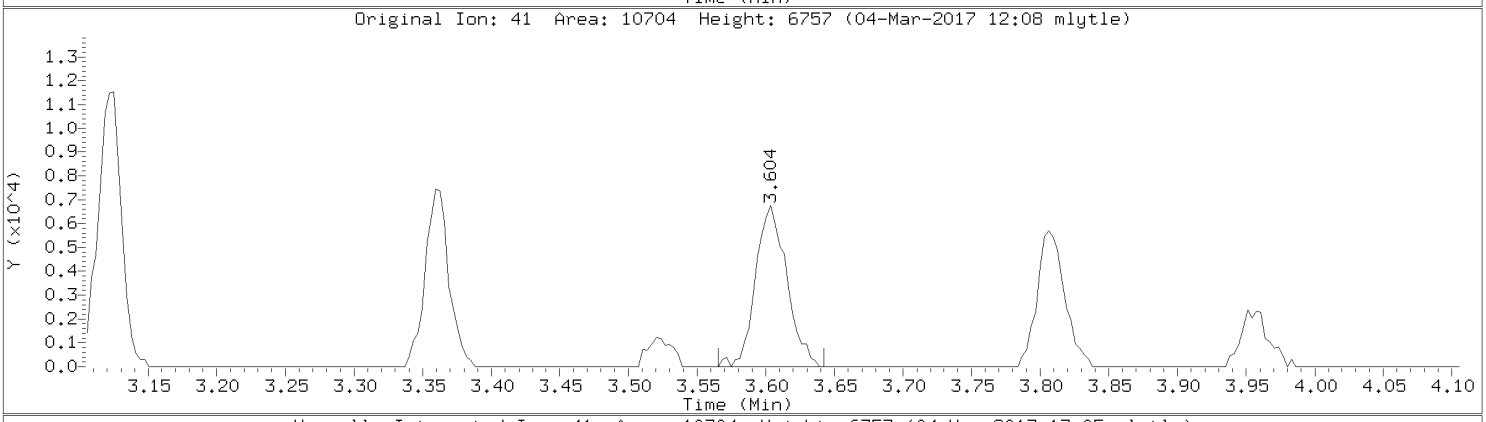


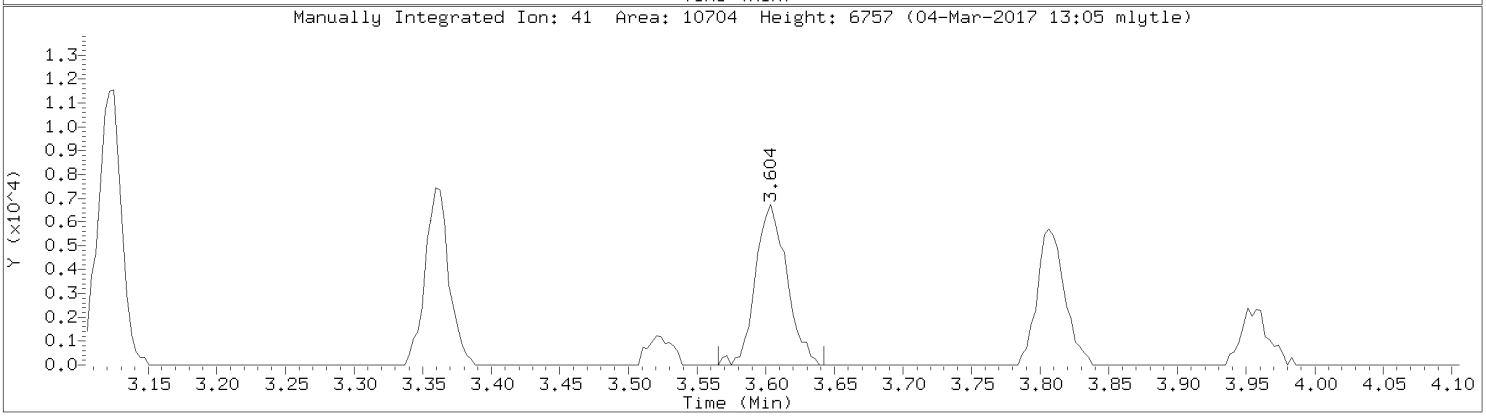
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: n-Hexane
CAS Number: 110-54-3

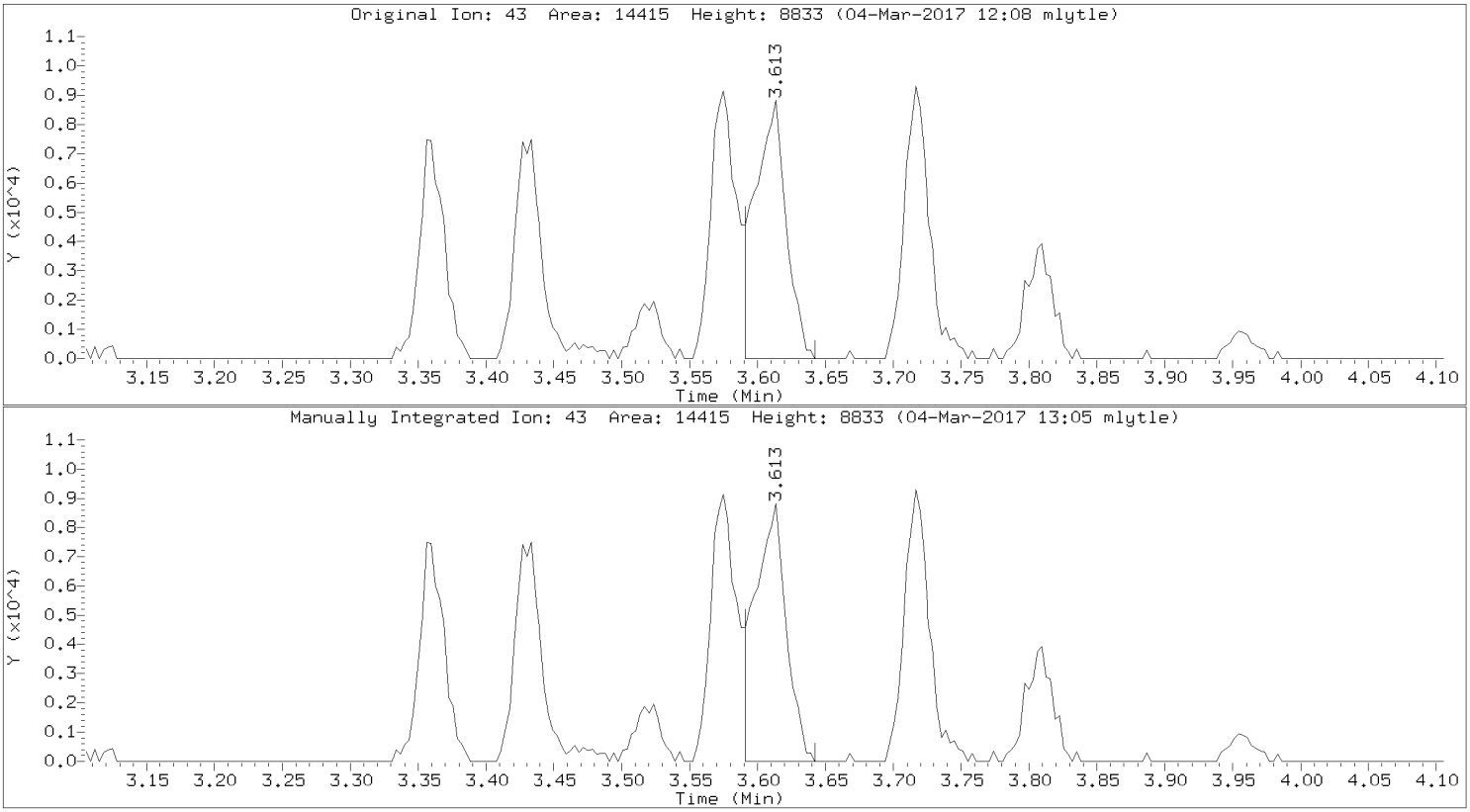






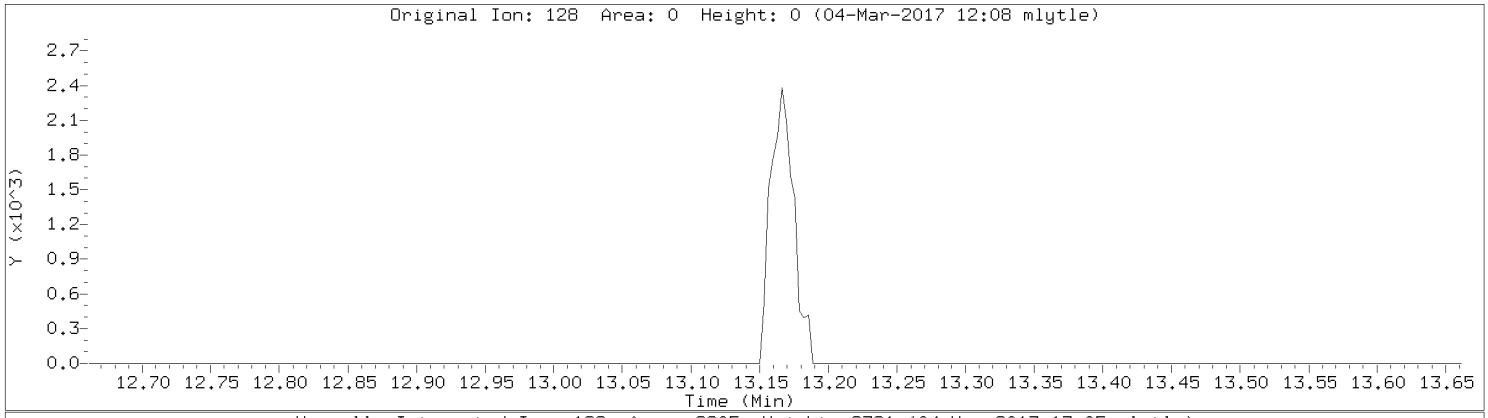


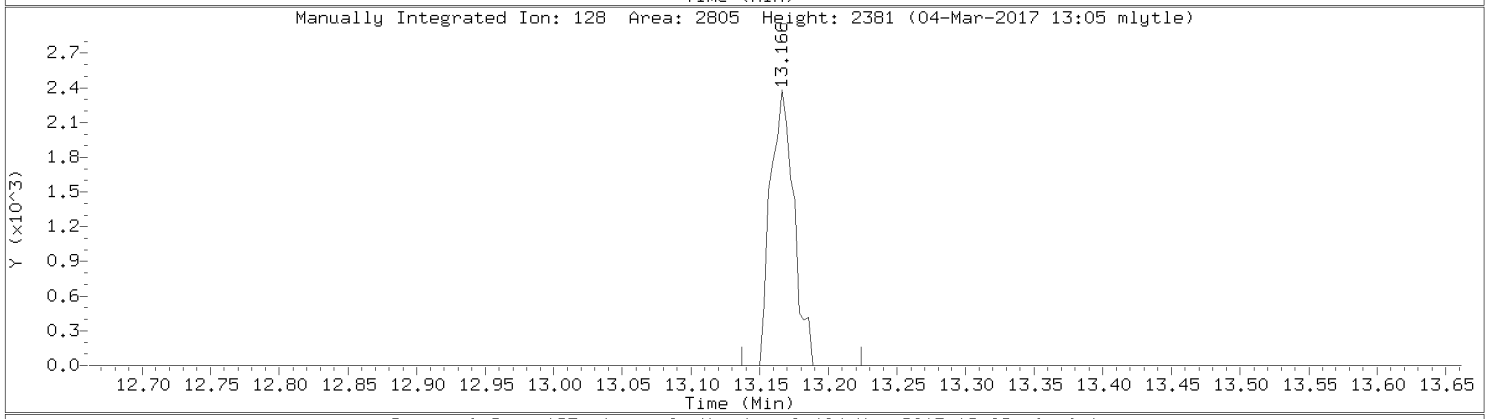
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

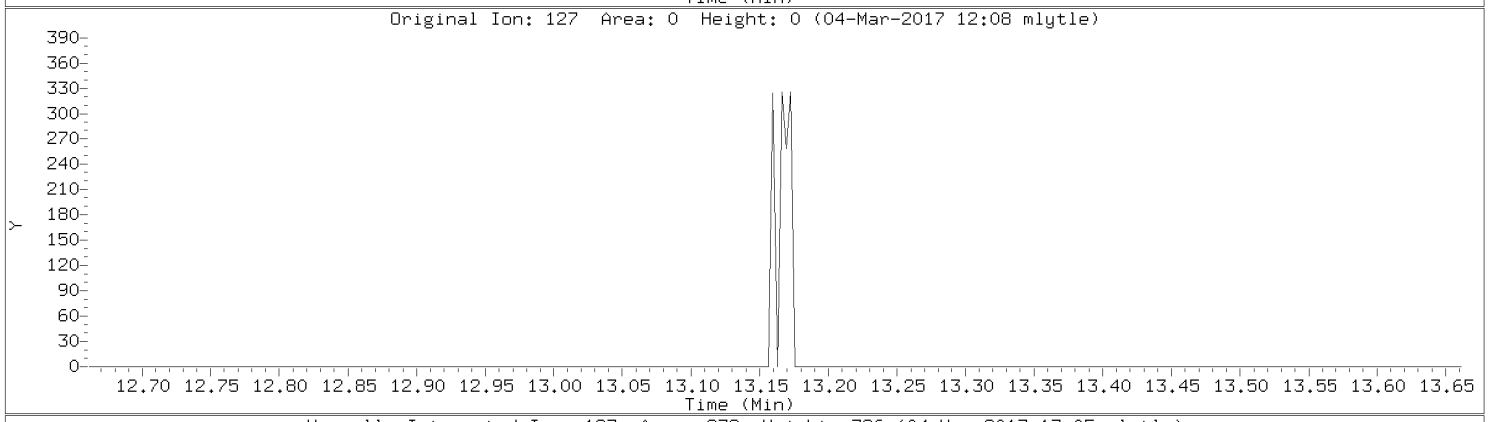


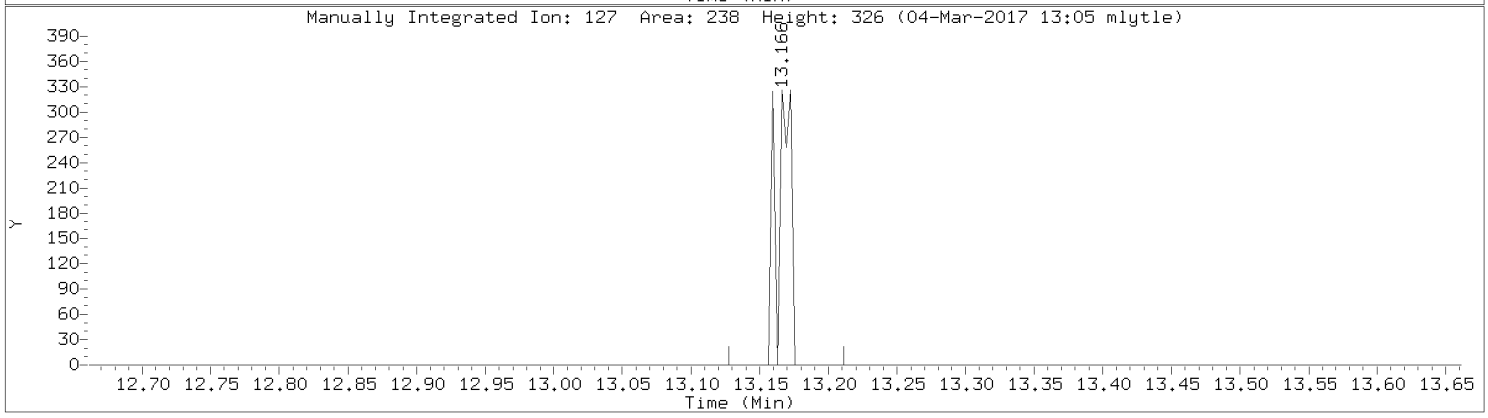
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: Naphthalene
CAS Number: 91-20-3



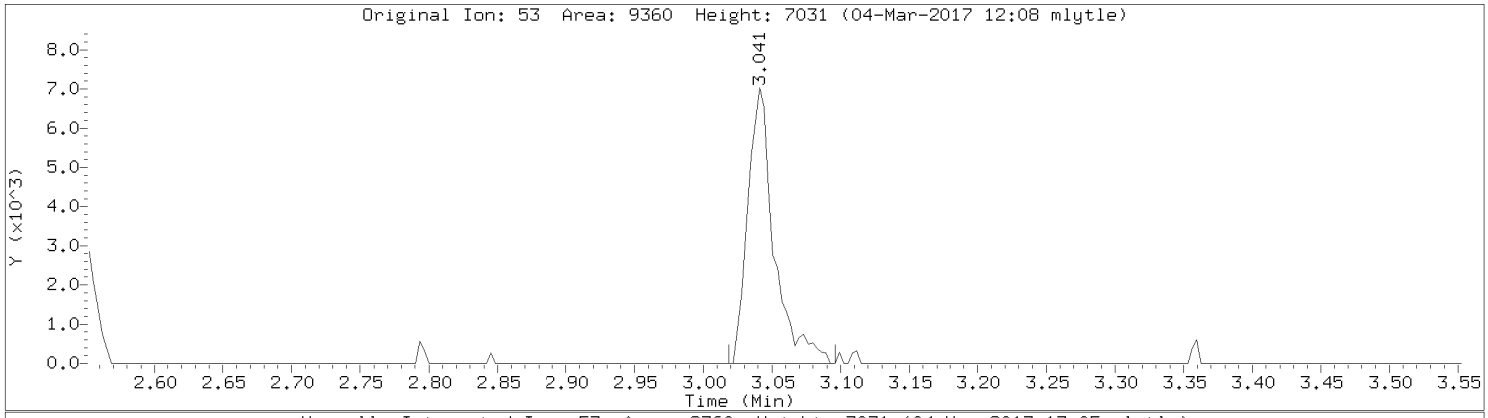


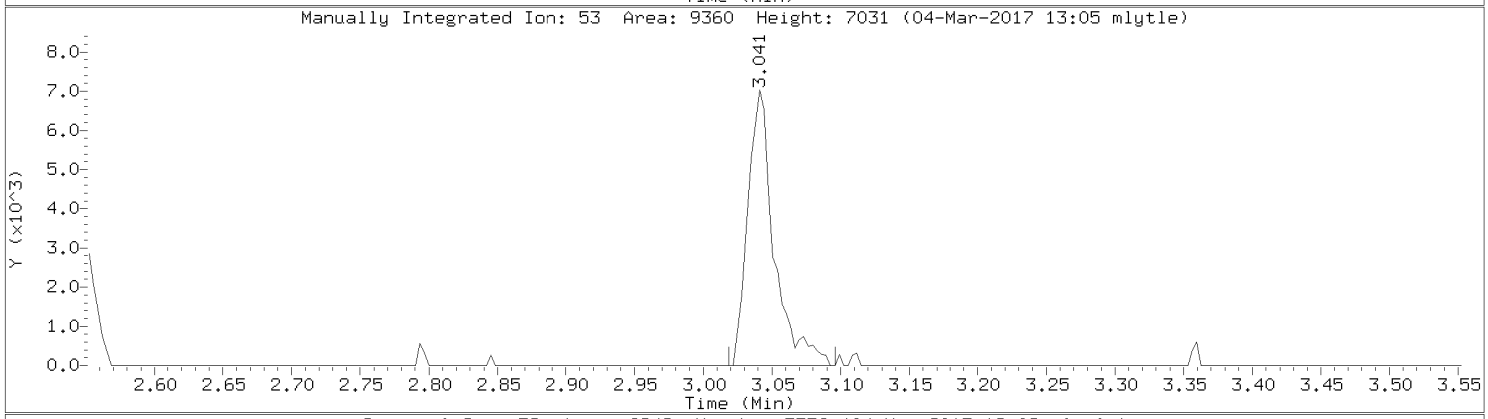


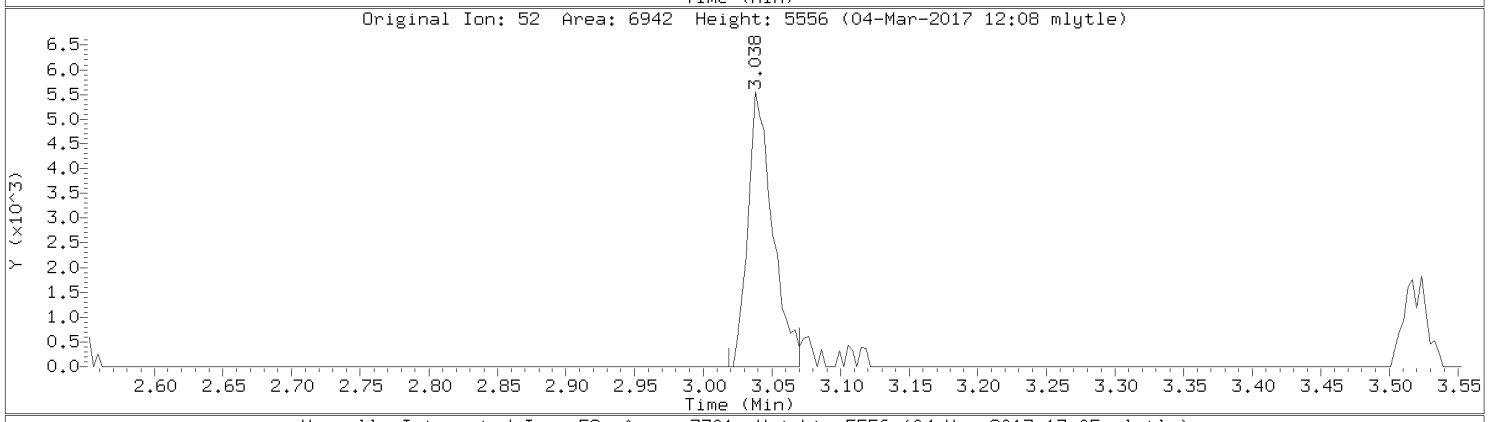


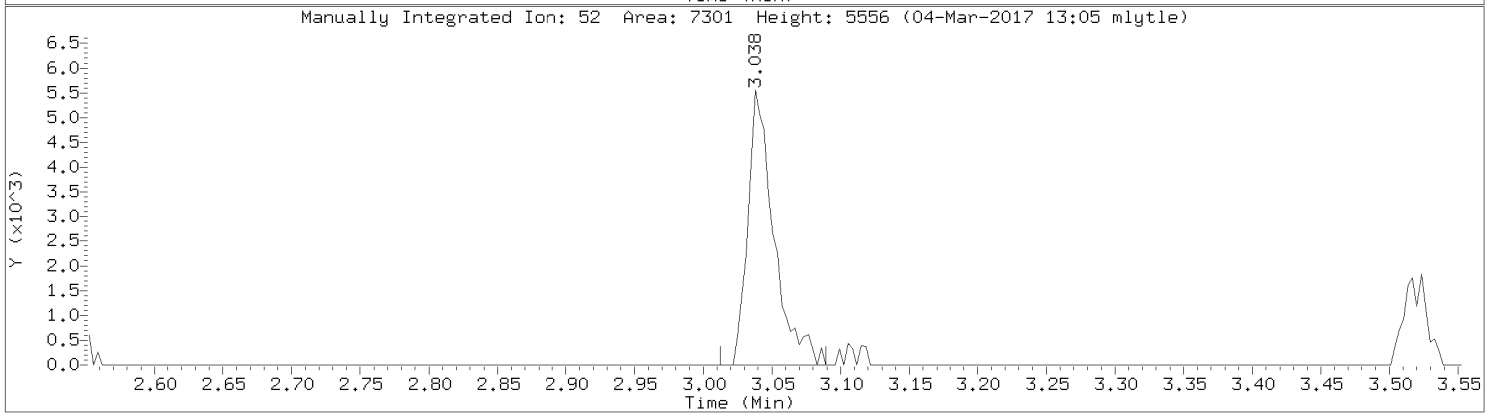
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: Acrylonitrile
CAS Number: 107-13-1



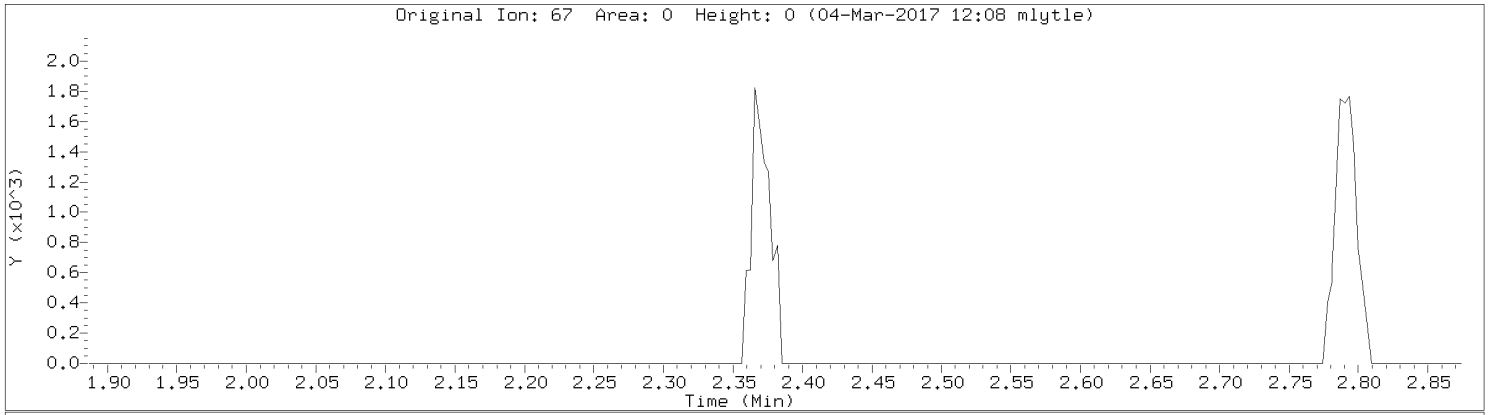


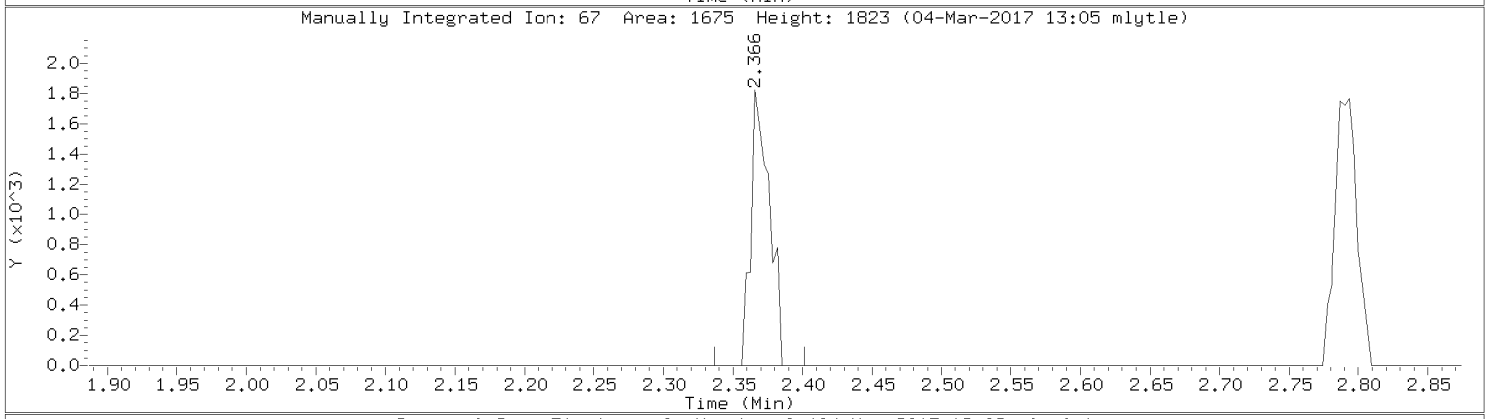


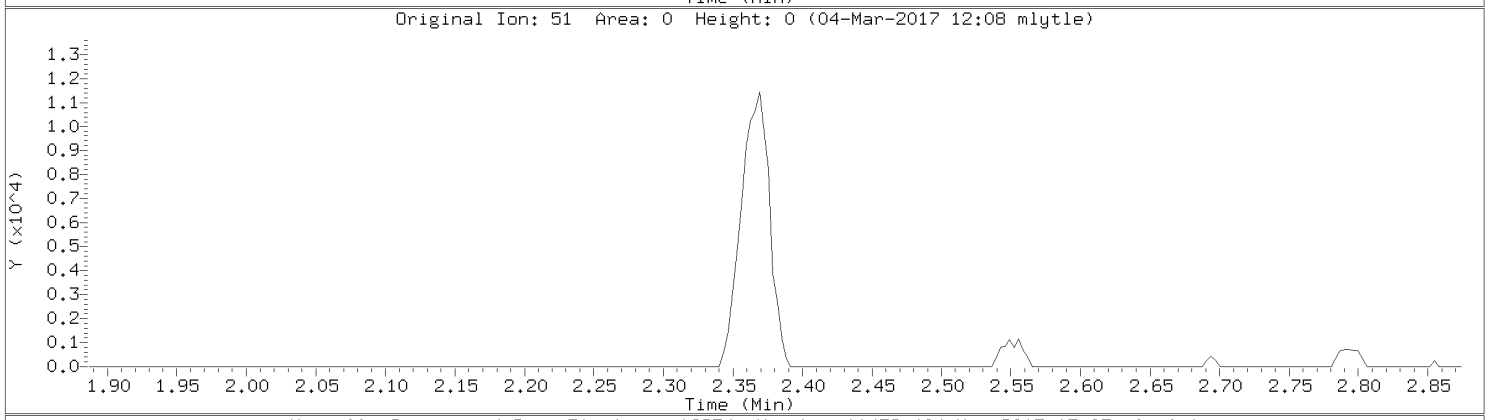


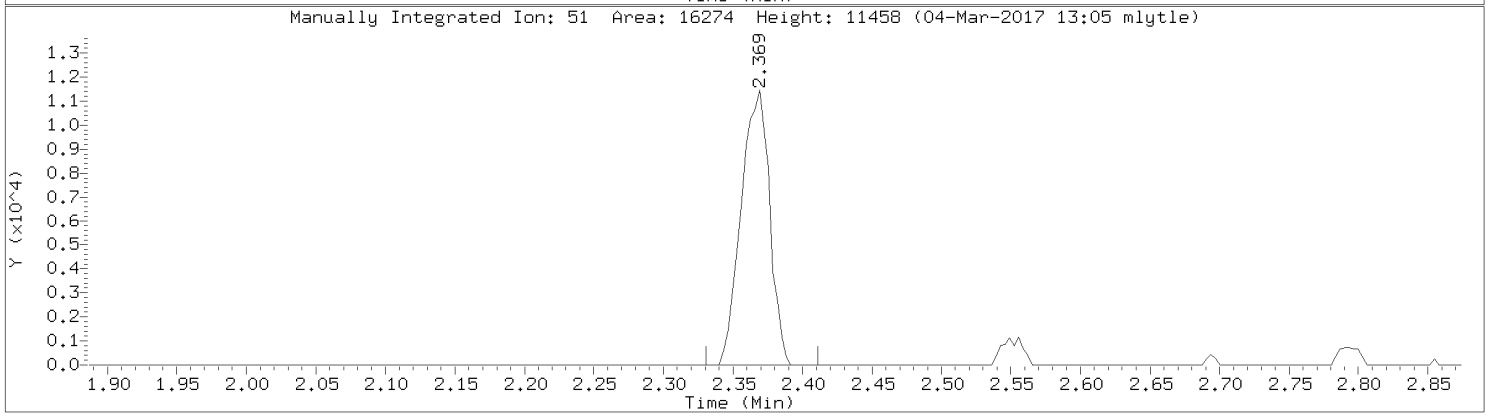
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

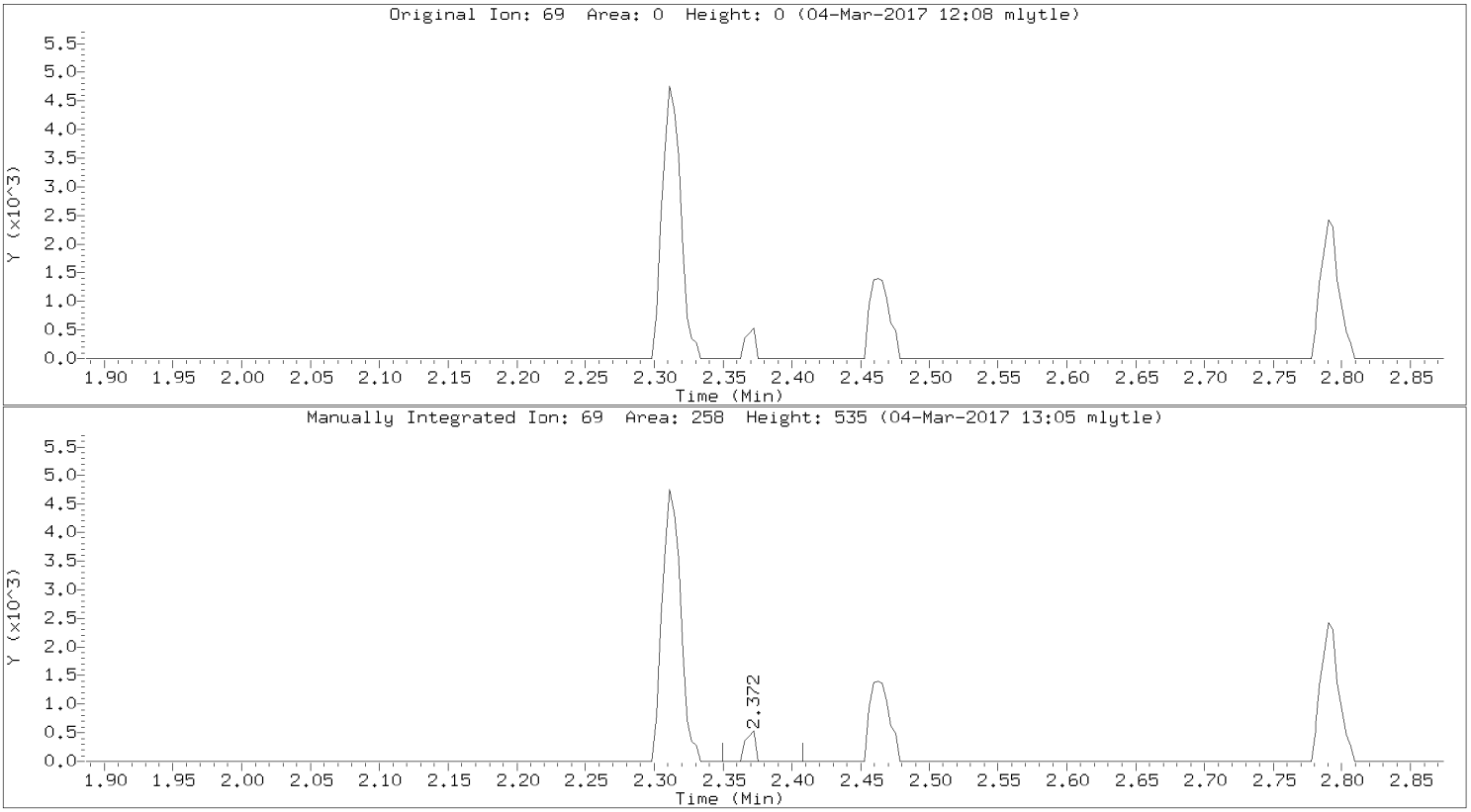






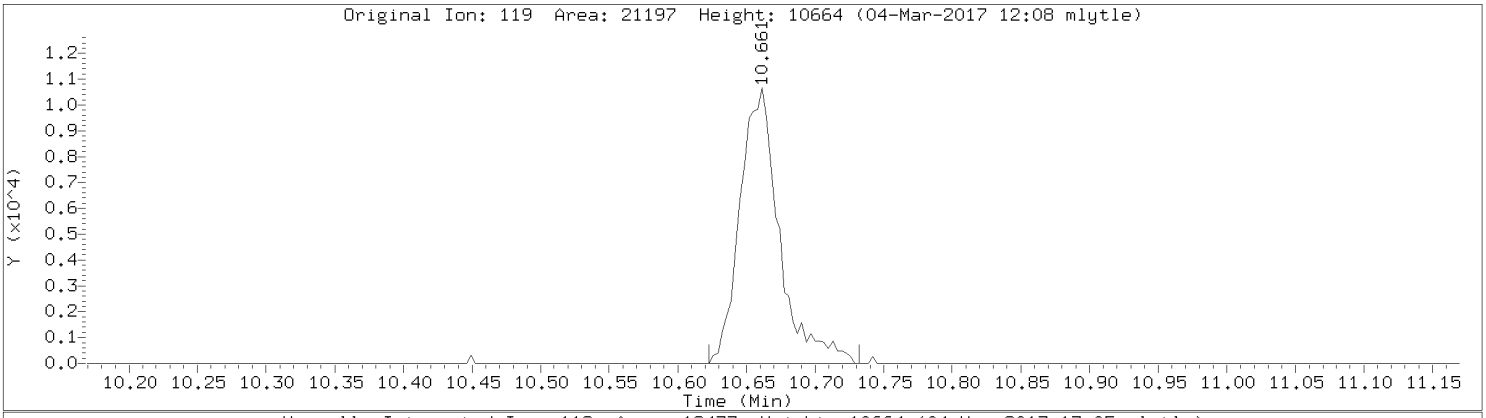


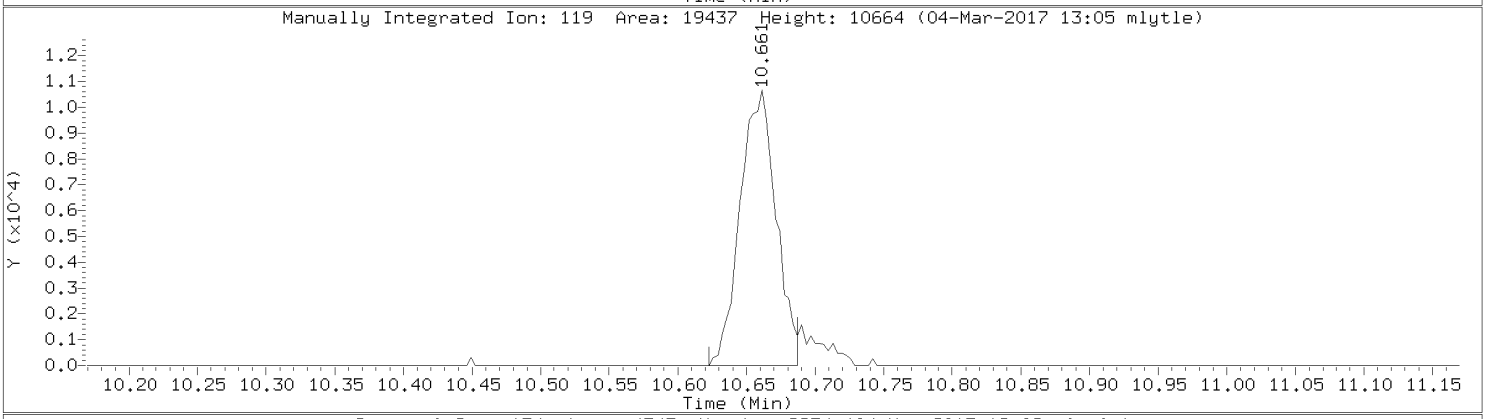
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

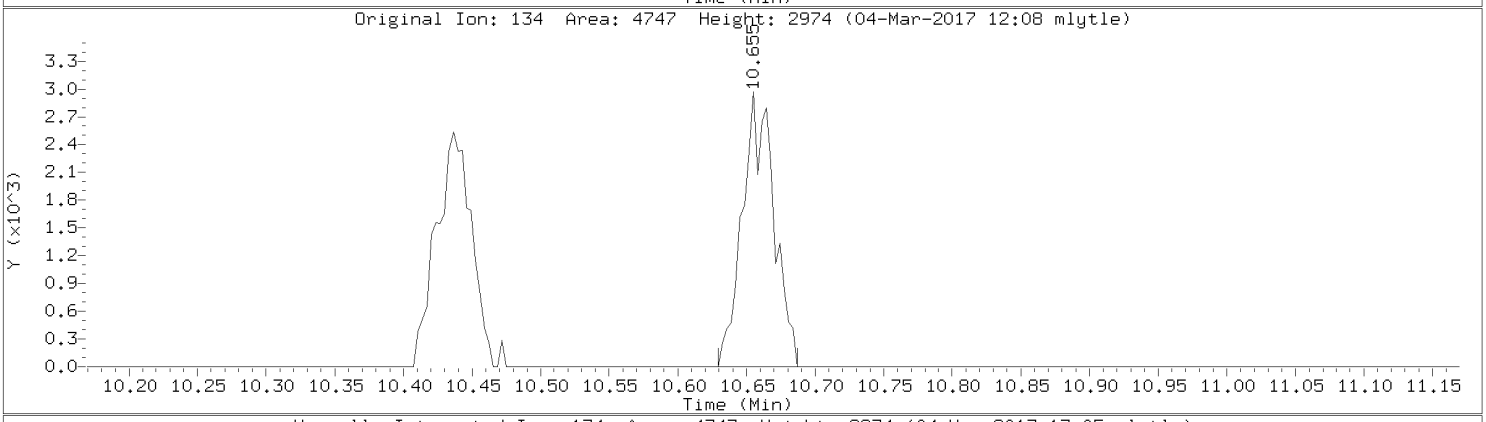


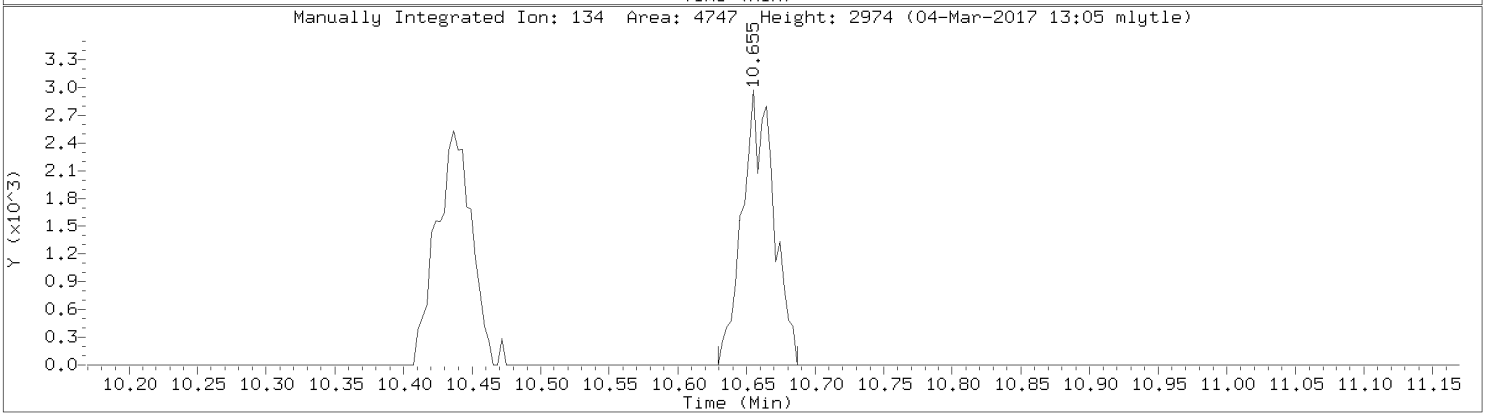
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: p-Isopropyltoluene
CAS Number: 99-87-6

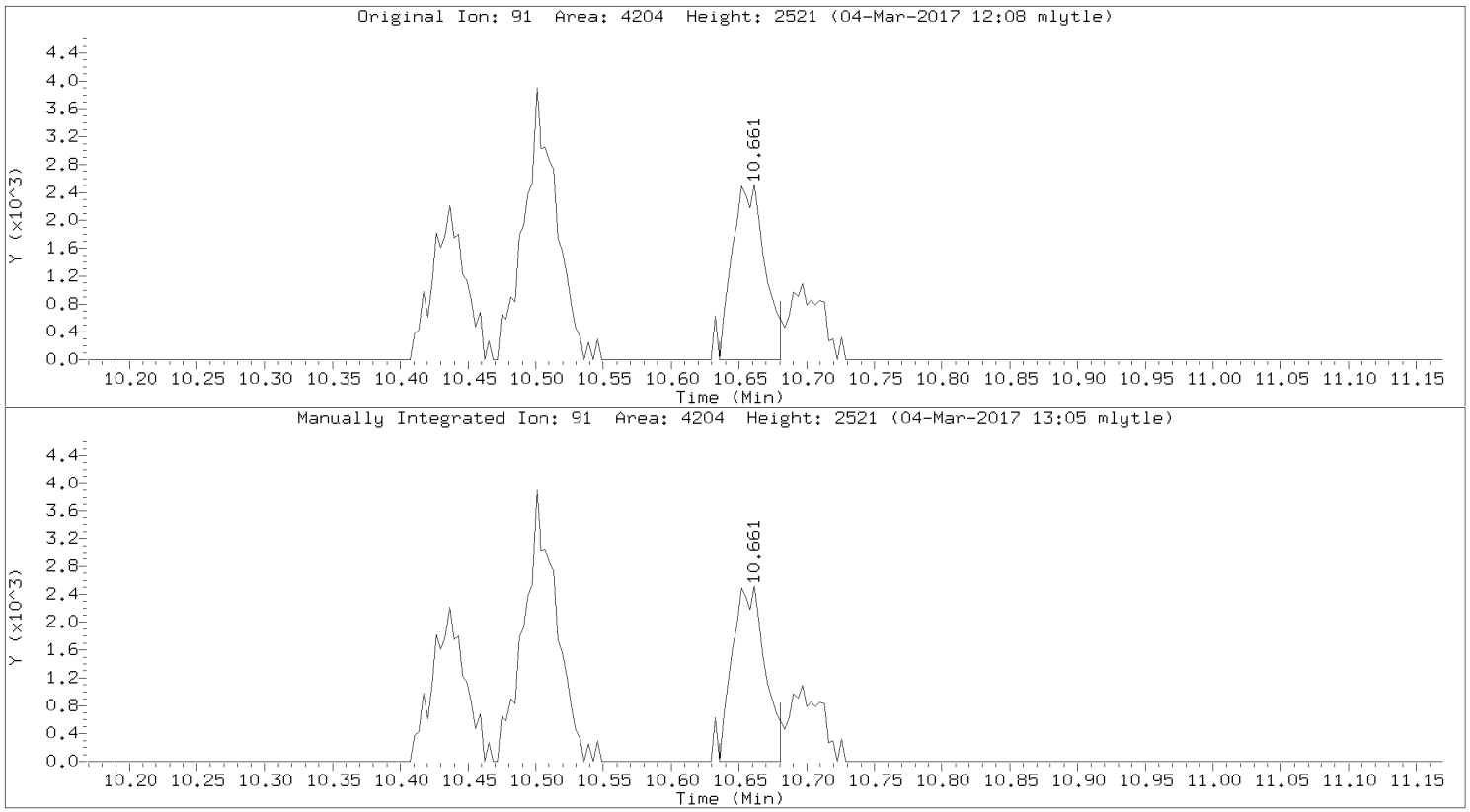






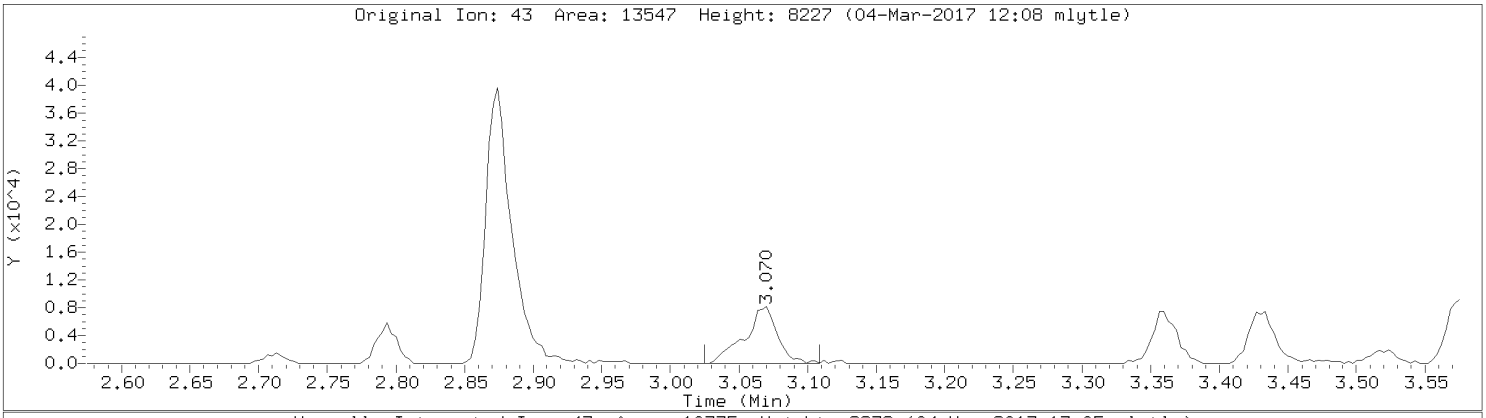


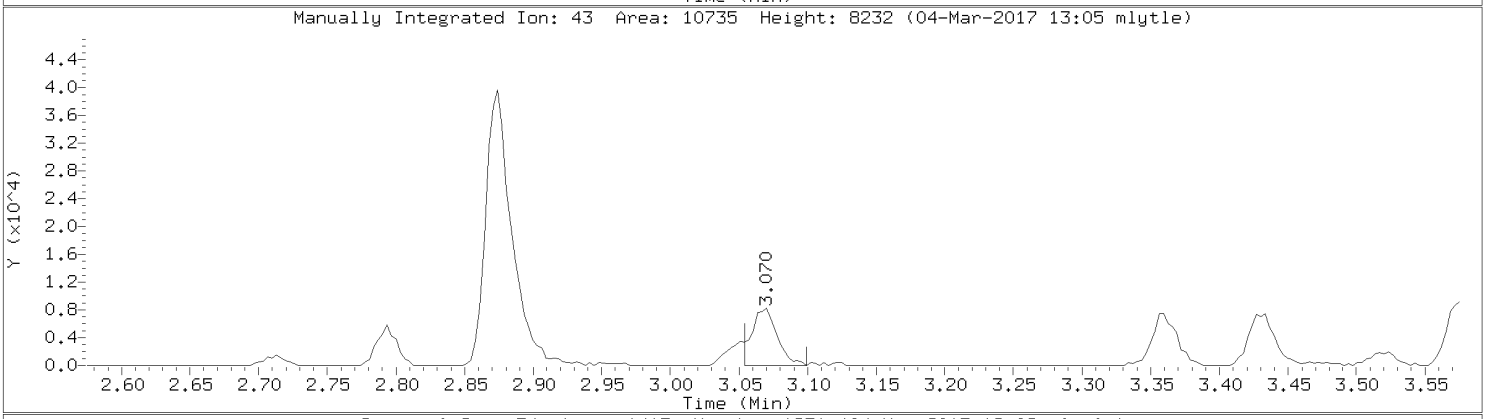
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

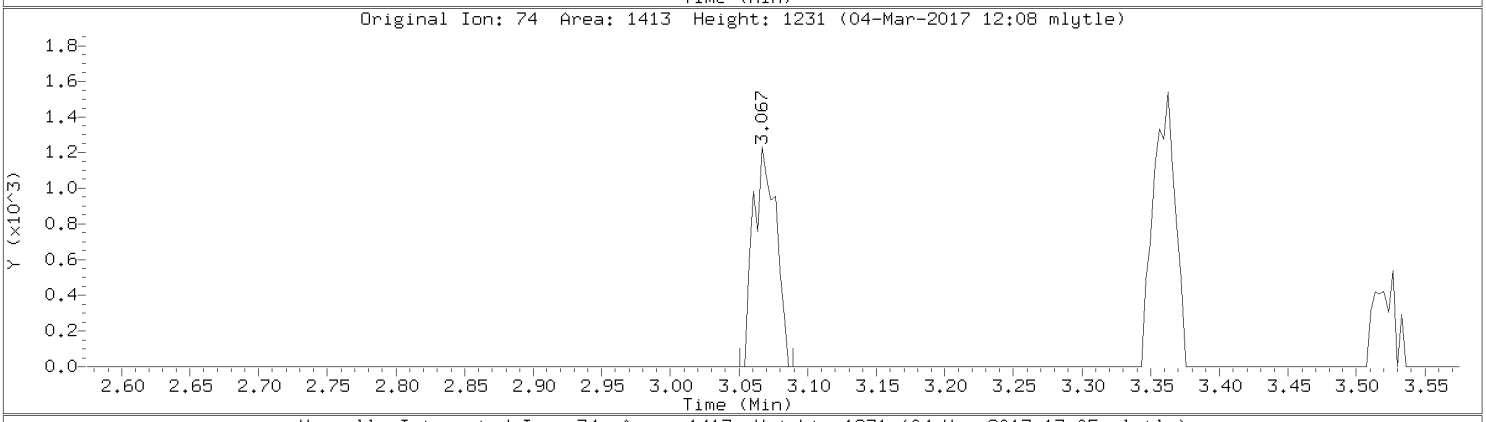


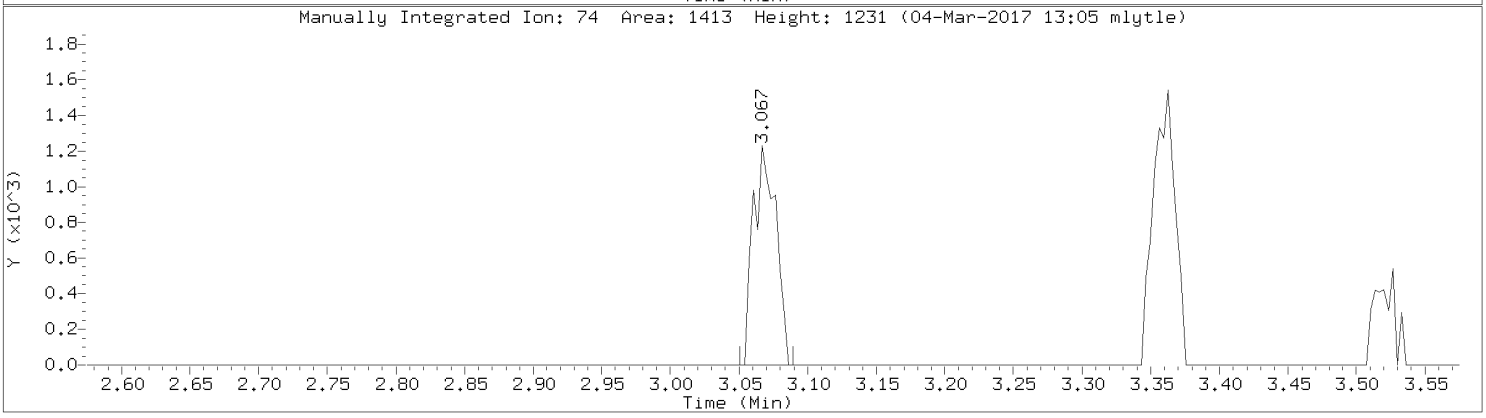
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: Methyl Acetate
CAS Number: 79-20-9

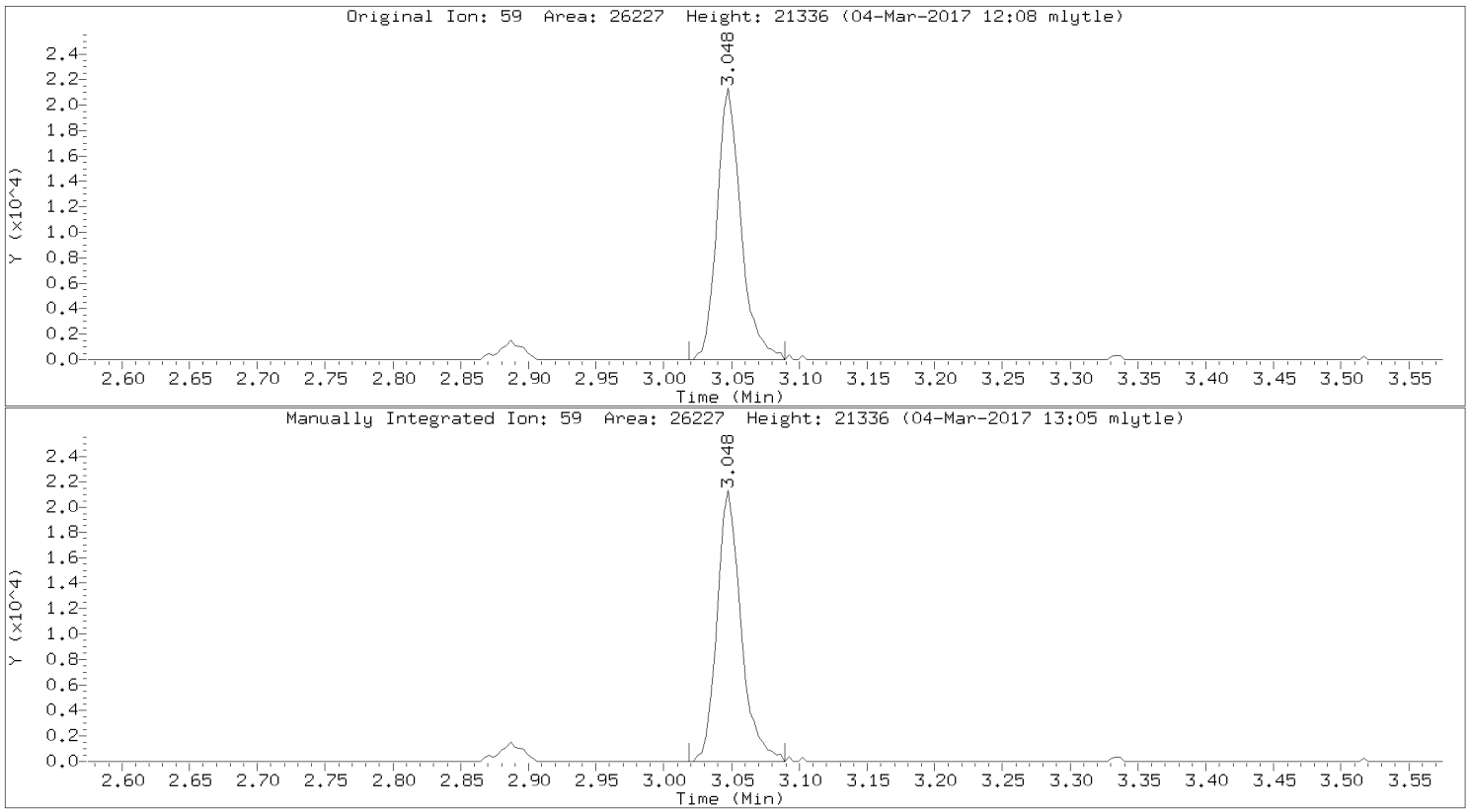








Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Lab Smp Id: CAL3
Inj Date : 04-MAR-2017 08:57
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:07 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 08:33 Cal File: 06305.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.308	2.308	(0.513)	9319	0.50000	(a)
2	1,1-Difluoroethane	65	2.356	2.356	(0.524)	6607	0.50000	0.481
3	Chlorodifluoromethane	67	2.366	2.366	(0.526)	3421	0.50000	0.483(Q)
4	Propylene	41	2.375	2.375	(0.528)	24024	0.50000	0.434
5	Dichlorodifluoromethane	85	2.394	2.394	(0.532)	35090	0.50000	0.483
6	Chloromethane	50	2.462	2.462	(0.547)	14965	0.50000	0.502
7	Dichlorotetrafluoroethane	85	2.459	2.459	(0.547)	32626	0.50000	0.490
8	Vinyl chloride	62	2.520	2.520	(0.560)	10654	0.50000	0.487
9	1,3-Butadiene	54	2.546	2.546	(0.566)	8062	0.50000	0.503
10	Bromomethane	94	2.652	2.652	(0.590)	11749	0.50000	0.493
11	Chloroethane	64	2.687	2.687	(0.598)	4269	0.50000	0.499
12	Ethanol	45	2.703	2.703	(0.601)	14588	2.50000	2.31
13	Vinyl Bromide	106	2.780	2.780	(0.618)	11684	0.50000	0.474
14	Isopentane	43	2.790	2.790	(0.620)	11800	0.50000	0.493
15	Freon 123	83	2.787	2.787	(0.620)	25749	0.50000	0.468
16	Trichlorofluoromethane	101	2.851	2.851	(0.634)	34069	0.50000	0.472
17	Acrolein	56	2.841	2.841	(0.632)	6045	1.25000	1.02
18	Acetone	43	2.867	2.867	(0.638)	105805	2.50000	2.52
19	Isopropyl Alcohol	45	2.880	2.880	(0.640)	79279	2.50000	2.25
20	1,1-Dichloroethene	61	3.041	3.041	(0.676)	18173	0.50000	0.455
21	Acrylonitrile	53	3.034	3.034	(0.675)	17500	1.25000	1.07
22	Freon 113	101	3.070	3.070	(0.683)	24789	0.50000	0.459
23	Tert Butyl Alcohol (TBA)	59	3.041	3.041	(0.676)	50623	1.25000	1.07

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.066	3.066	(0.682)	19311	0.50000	0.403
	25 Methylene chloride	49	3.111	3.111	(0.692)	68561	2.50000	2.34
	26 Allyl Chloride	76	3.121	3.121	(0.694)	6531	1.25000	0.942(Q)
	27 Carbon Disulfide	76	3.214	3.214	(0.715)	21988	0.50000	0.434
	28 trans-1,2-dichloroethene	96	3.333	3.333	(0.741)	9213	0.50000	0.429
	29 Methyl Tert Butyl Ether	73	3.356	3.356	(0.746)	64918	1.25000	1.12
	30 Vinyl Acetate	43	3.427	3.427	(0.762)	17924	0.50000	0.355
	31 1,1-Dichloroethane	63	3.439	3.439	(0.765)	18903	0.50000	0.449
$	32 Hexane-d14(S)	66	3.517	3.517	(0.782)	236401	10.0000	9.27
	33 Methyl Ethyl Ketone	72	3.568	3.568	(0.793)	3618	0.50000	0.456(Q)
	34 n-Hexane	57	3.597	3.597	(0.800)	13549	0.50000	0.432
	35 Di-isopropyl Ether	45	3.610	3.610	(0.803)	34013	0.50000	0.434
	36 cis-1,2-Dichloroethene	96	3.713	3.713	(0.826)	9692	0.50000	0.418
	37 Ethyl Acetate	43	3.713	3.713	(0.826)	21363	0.50000	0.429
	38 Ethyl Tert-Butyl Ether	59	3.803	3.803	(0.846)	80921	1.25000	1.11
	39 Chloroform	83	3.806	3.806	(0.846)	22568	0.50000	0.436
	40 Tetrahydrofuran	42	3.951	3.951	(0.878)	10503	0.50000	0.433
	41 1,1,1-Trichloroethane	97	4.150	4.150	(0.923)	29286	0.50000	0.463
	42 1,2-Dichloroethane	62	4.160	4.160	(0.925)	19635	0.50000	0.461
	43 Benzene	78	4.359	4.359	(0.969)	33633	0.50000	0.465
	44 Carbon tetrachloride	117	4.375	4.375	(0.973)	31450	0.50000	0.453
	45 Cyclohexane	56	4.382	4.382	(0.974)	17185	0.50000	0.474
	46 Tert Amyl Methyl Ether	73	4.491	4.491	(0.999)	41376	0.50000	0.292(H)
*	47 1,4-Difluorobenzene	114	4.497	4.497	(1.000)	934015	10.0000	
	48 2,2,4-Trimethylpentane	57	4.629	4.629	(1.029)	143892	1.25000	1.24
	49 Heptane	43	4.745	4.745	(1.055)	22967	0.50000	0.484
	50 1,2-Dichloropropane	63	4.812	4.812	(1.070)	13395	0.50000	0.481
	51 Trichloroethene	130	4.828	4.828	(1.074)	20873	0.50000	0.474
	52 Methyl methacrylate	69	4.893	4.893	(1.088)	9691	0.50000	0.449
	53 Bromodichloromethane	83	4.918	4.918	(1.094)	26838	0.50000	0.442
	54 1,4-Dioxane	88	4.909	4.909	(1.091)	5652	0.50000	0.471
	55 Methylcyclohexane	98	5.227	5.227	(1.162)	7655	0.50000	0.488(Q)
	56 Methyl Isobutyl Ketone	43	5.336	5.336	(1.187)	75411	1.25000	1.19
	57 cis-1,3-Dichloropropene	75	5.388	5.388	(1.198)	18164	0.50000	0.446
	58 trans-1,3-Dichloropropene	75	5.761	5.761	(1.281)	15448	0.50000	0.419
$	59 Toluene-d8 (S)	98	5.828	5.828	(1.296)	788223	10.0000	10.1
	60 Toluene	91	5.899	5.899	(1.312)	41003	0.50000	0.465
	61 1,1,2-Trichloroethane	97	5.899	5.899	(1.312)	15337	0.50000	0.461
	62 Methyl Butyl Ketone	43	6.127	6.127	(0.839)	65839	1.25000	1.17
	63 n-Octane	43	6.320	6.320	(0.865)	28561	0.50000	0.490
	64 Dibromochloromethane	129	6.391	6.391	(0.875)	29429	0.50000	0.433
	65 1,2-Dibromoethane	107	6.607	6.607	(0.904)	24137	0.50000	0.453
	66 Tetrachloroethene	166	6.677	6.677	(0.914)	27794	0.50000	0.479
*	67 Chlorobenzene - d5	117	7.304	7.304	(1.000)	585394	10.0000	
	68 Chlorobenzene	112	7.349	7.349	(1.006)	32572	0.50000	0.462
	69 Ethyl Benzene	91	7.594	7.594	(1.040)	51075	0.50000	0.467
	70 m&p-Xylene	91	7.738	7.738	(1.059)	78447	1.00000	0.914
	71 Bromoform	173	8.102	8.102	(1.109)	19141	0.50000	0.347
	72 n-Nonane	43	8.134	8.134	(1.114)	25343	0.50000	0.484
	73 Styrene	104	8.147	8.147	(1.115)	25063	0.50000	0.449
	74 o-Xylene	91	8.208	8.208	(1.124)	39014	0.50000	0.455
	75 1,1,2,2-Tetrachloroethane	83	8.465	8.465	(1.159)	23975	0.50000	0.463
	76 Isopropylbenzene	105	8.774	8.774	(1.201)	55200	0.50000	0.468
	77 N-Propylbenzene	91	9.336	9.336	(1.278)	55759	0.50000	0.464

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.513	9.513	(1.302)	47256	0.50000	0.454(M)
79	1,3,5-Trimethylbenzene	105	9.597	9.597	(1.314)	42346	0.50000	0.477
80	n-Decane	57	10.002	10.002	(2.224)	17857	0.50000	0.431
81	Tert-Butyl Benzene	119	10.095	10.095	(1.382)	45459	0.50000	0.478
82	1,2,4-Trimethylbenzene	105	10.111	10.111	(1.384)	38158	0.50000	0.501
83	1,3-Dichlorobenzene	146	10.417	10.417	(1.426)	21473	0.50000	0.416
84	Sec- Butylbenzene	105	10.436	10.436	(1.429)	54430	0.50000	0.473
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.484	10.484	(1.435)	215151	10.0000	8.98
86	Benzyl Chloride	91	10.507	10.507	(1.438)	14306	0.50000	0.368
87	1,4-Dichlorobenzene	146	10.526	10.526	(1.441)	19551	0.50000	0.413
88	p-Isopropyltoluene	119	10.658	10.658	(1.459)	44107	0.50000	0.468(M)
89	1,2,3-Trimethylbenzene	105	10.700	10.700	(1.465)	34992	0.50000	0.450
90	1,2-Dichlorobenzene	146	10.995	10.995	(1.505)	19791	0.50000	0.435
91	N-Butylbenzene	91	11.249	11.249	(1.540)	28156	0.50000	0.444
92	1,2-Dibromo-3-Chloropropane	157	11.777	11.777	(1.612)	4103	0.50000	0.378
93	1,2,4-Trichlorobenzene	180	13.044	13.044	(1.786)	2814	0.50000	0.586
94	Naphthalene	128	13.166	13.166	(1.802)	6365	0.50000	0.421
95	Hexachlorobutadiene	225	13.426	13.426	(1.838)	8007	0.50000	0.356

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06306.D
Lab Smp Id: CAL3
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	934015	11.73
67 Chlorobenzene - d	539522	323713	755331	585394	8.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.21
67 Chlorobenzene - d	7.31	6.98	7.64	7.30	-0.13

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06306.D

Date : 04-MAR-2017 08:57

Client ID:

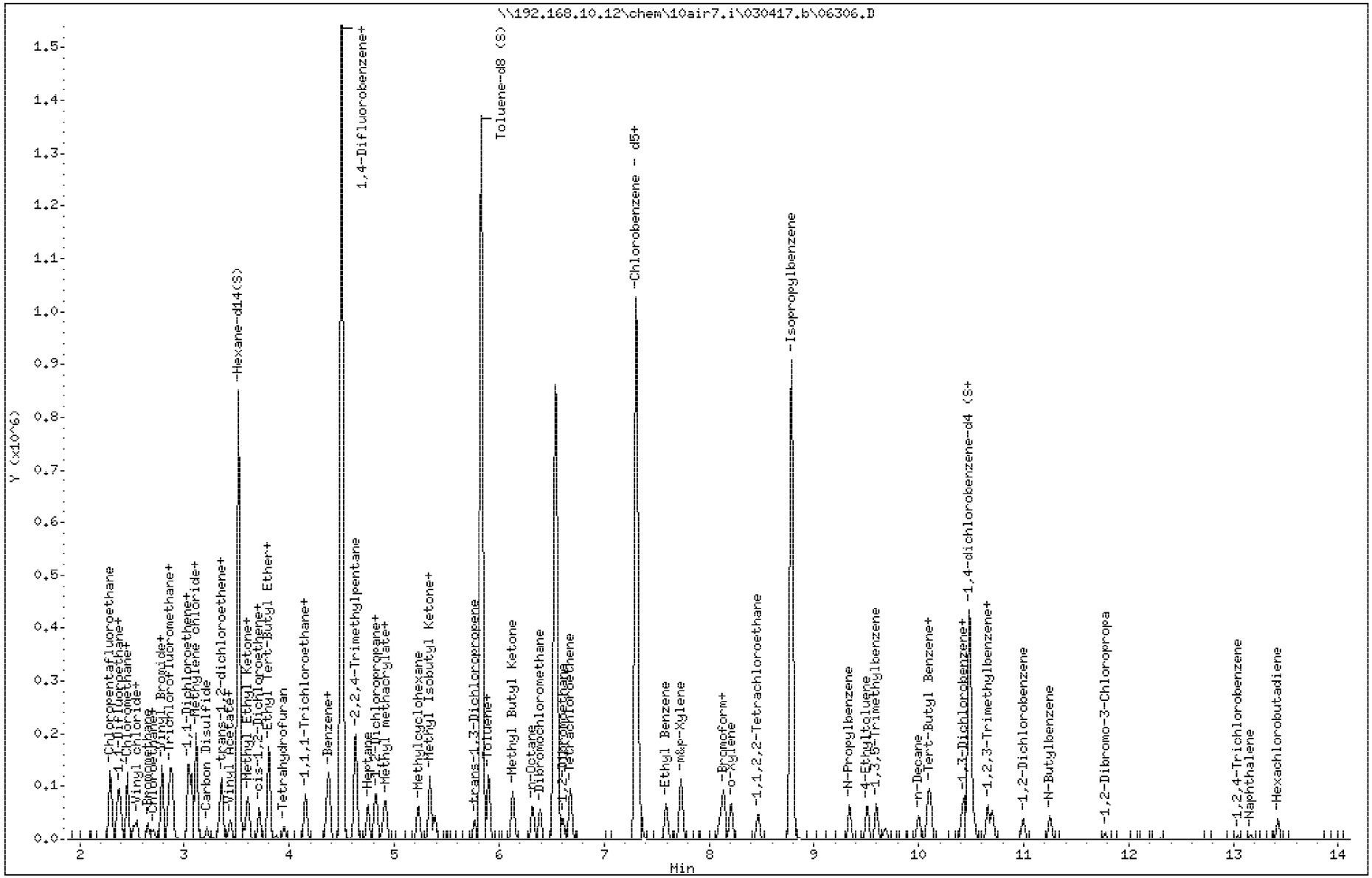
Instrument: 10air7.i

Sample Info:

Operator: MJL

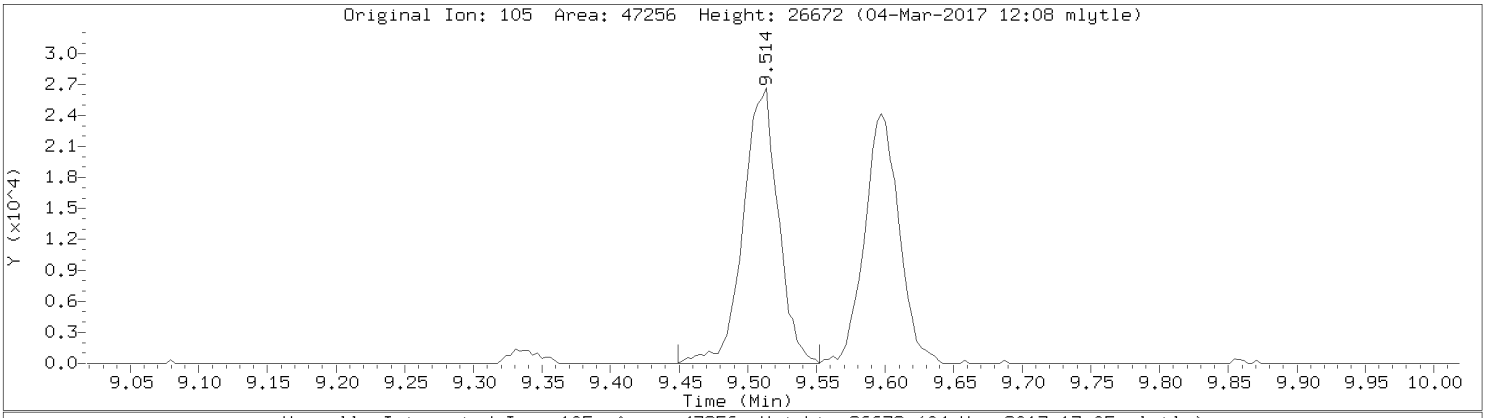
Column phase: J&W DB-5

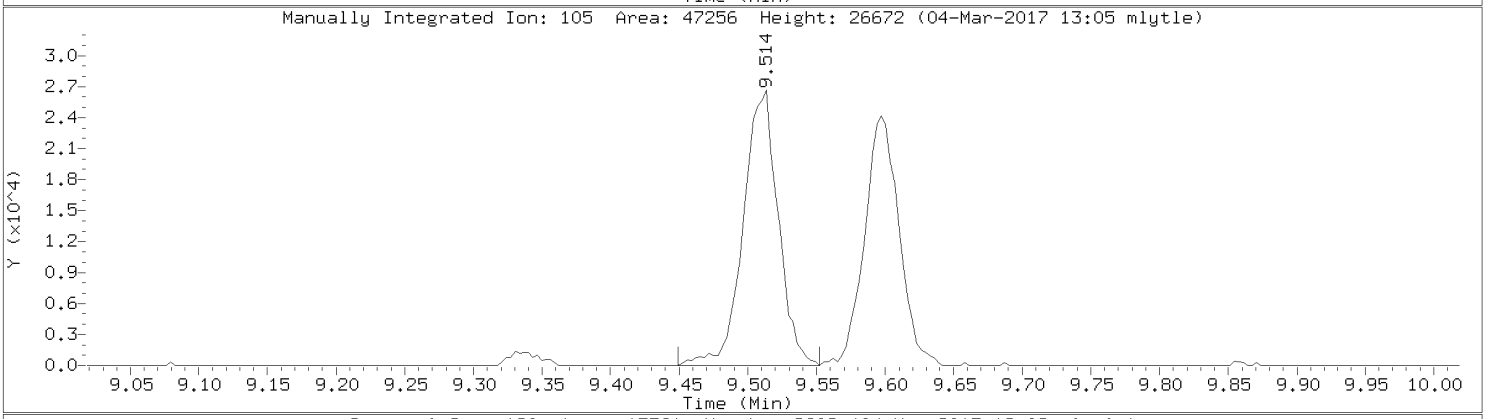
Column diameter: 0.32

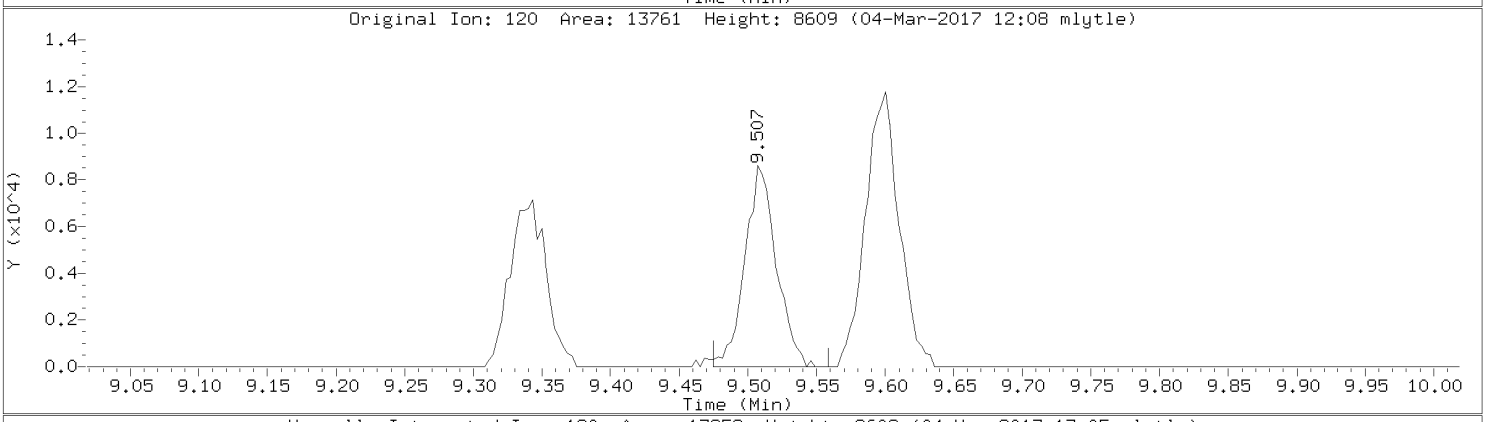


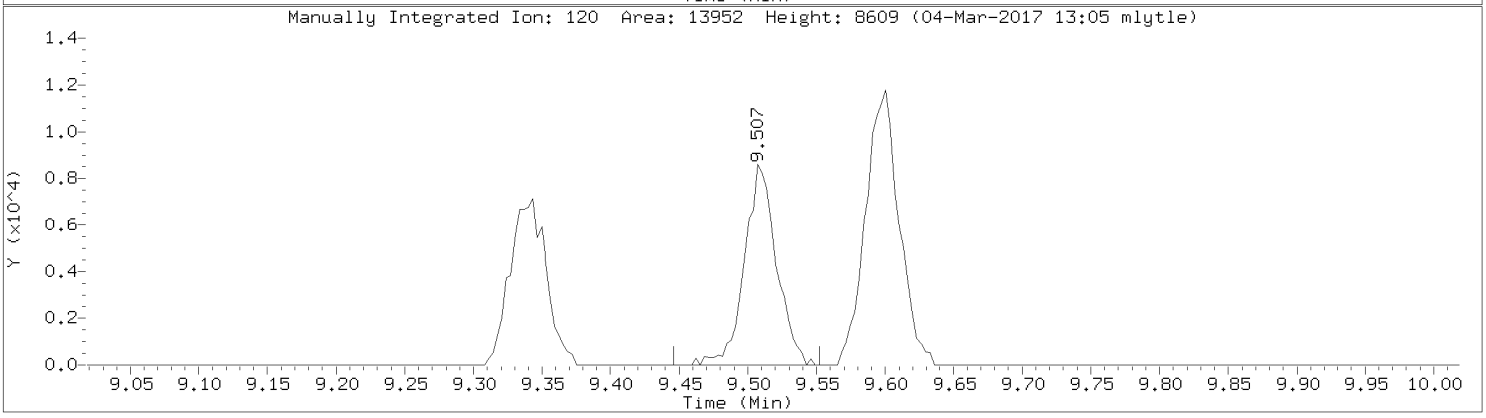
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06306.D
Injection Date: 04-MAR-2017 08:57
Instrument: 10air7.i
Lab Sample ID: CAL3

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

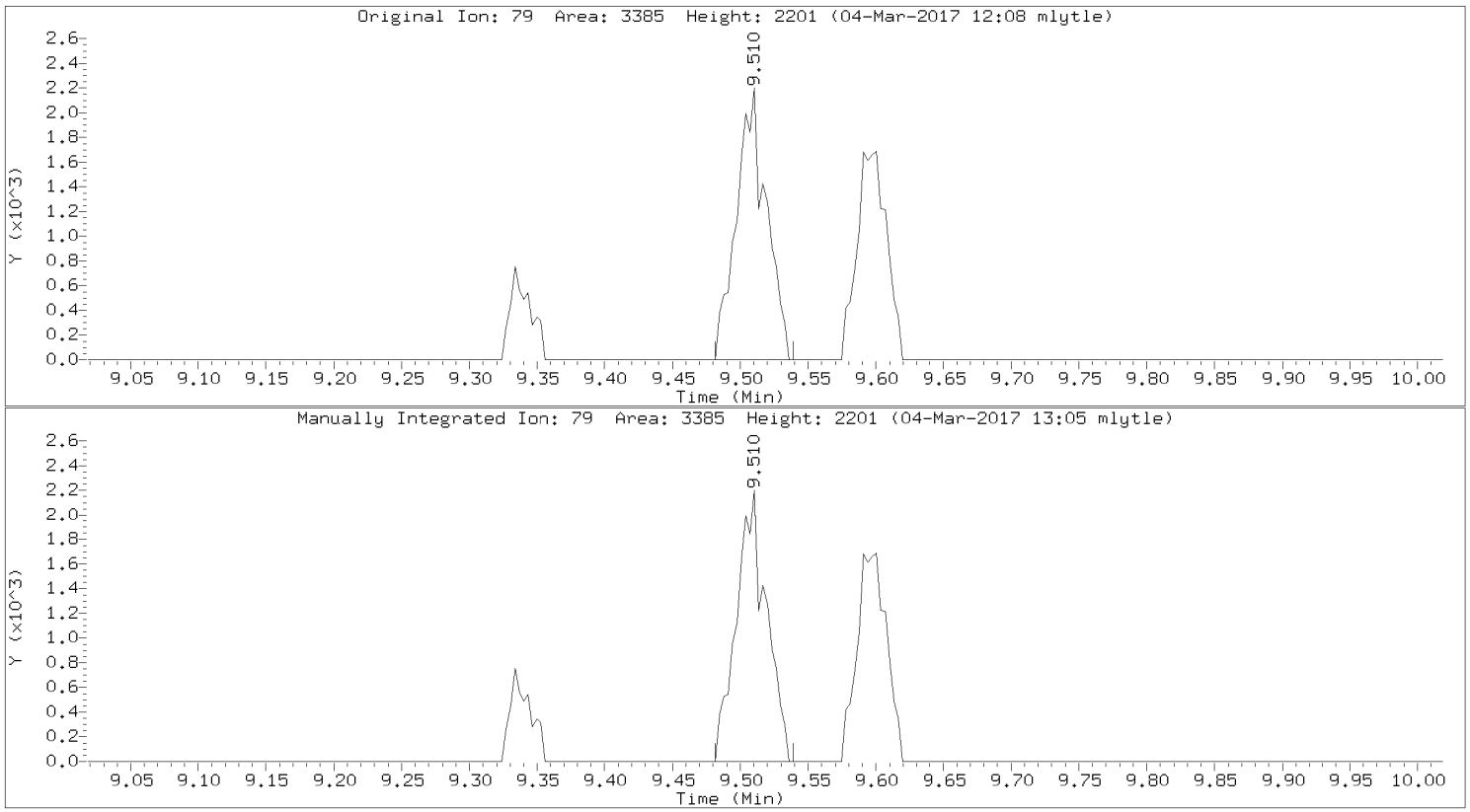






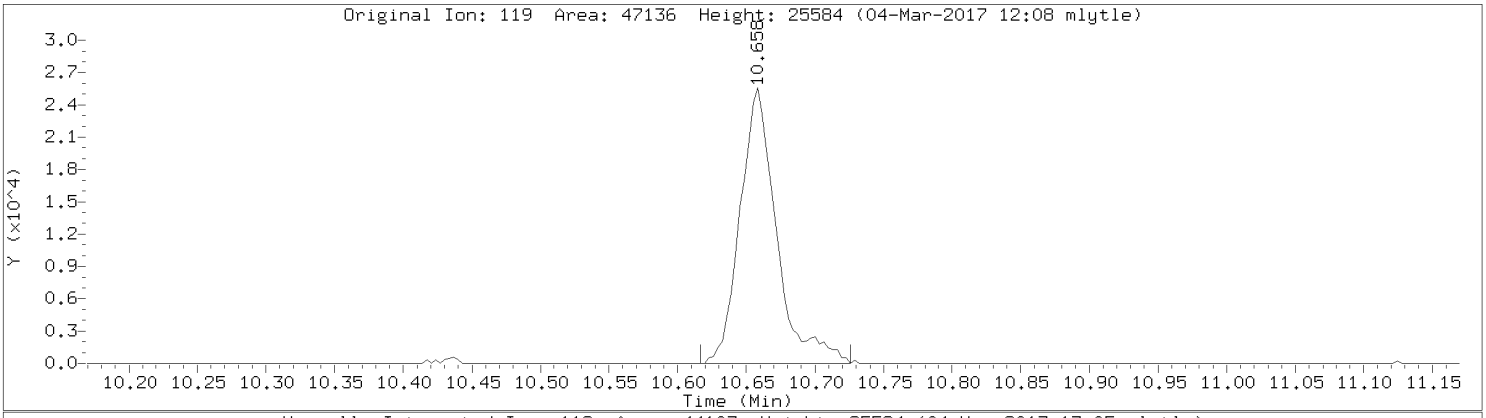


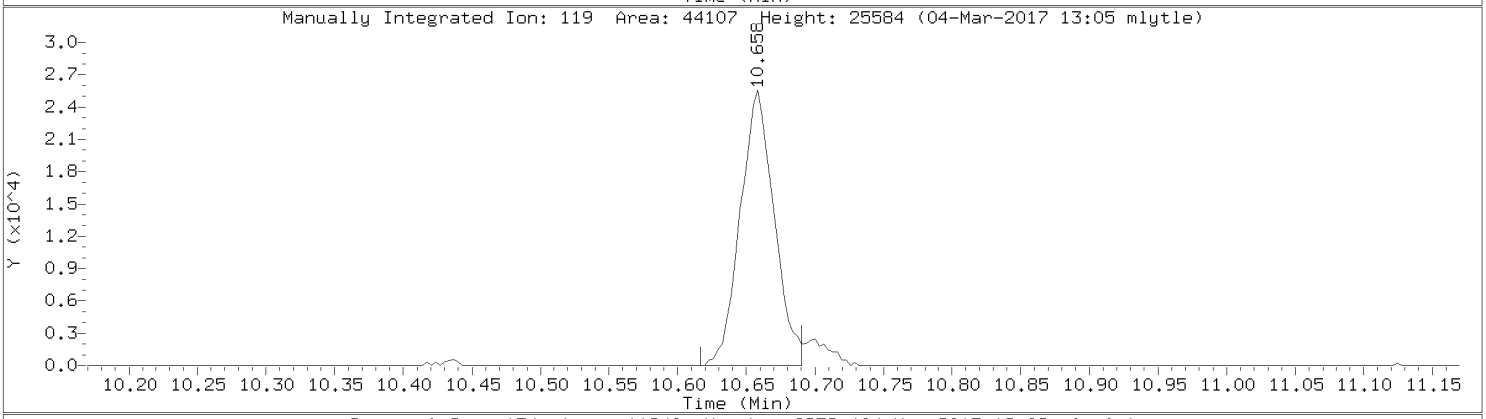
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06306.D
Injection Date: 04-MAR-2017 08:57
Instrument: 10air7.i
Lab Sample ID: CAL3

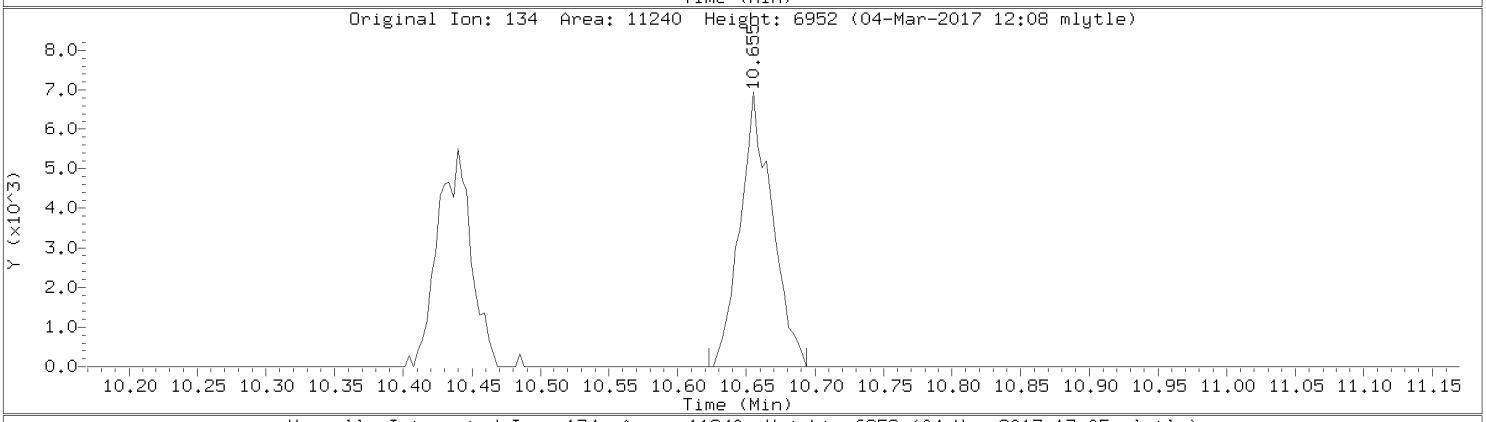


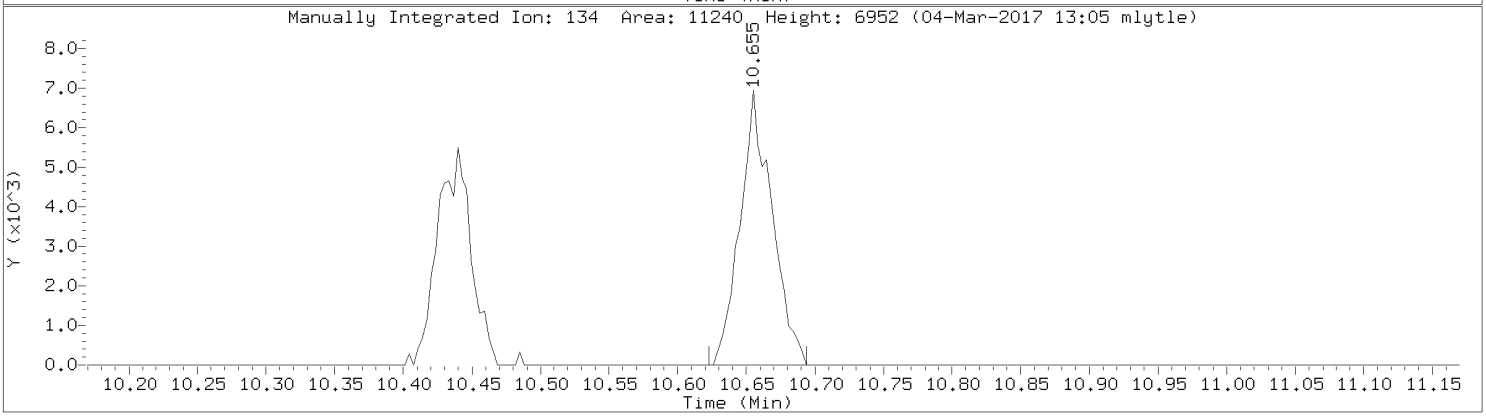
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06306.D
Injection Date: 04-MAR-2017 08:57
Instrument: 10air7.i
Lab Sample ID: CAL3

Compound: p-Isopropyltoluene
CAS Number: 99-87-6

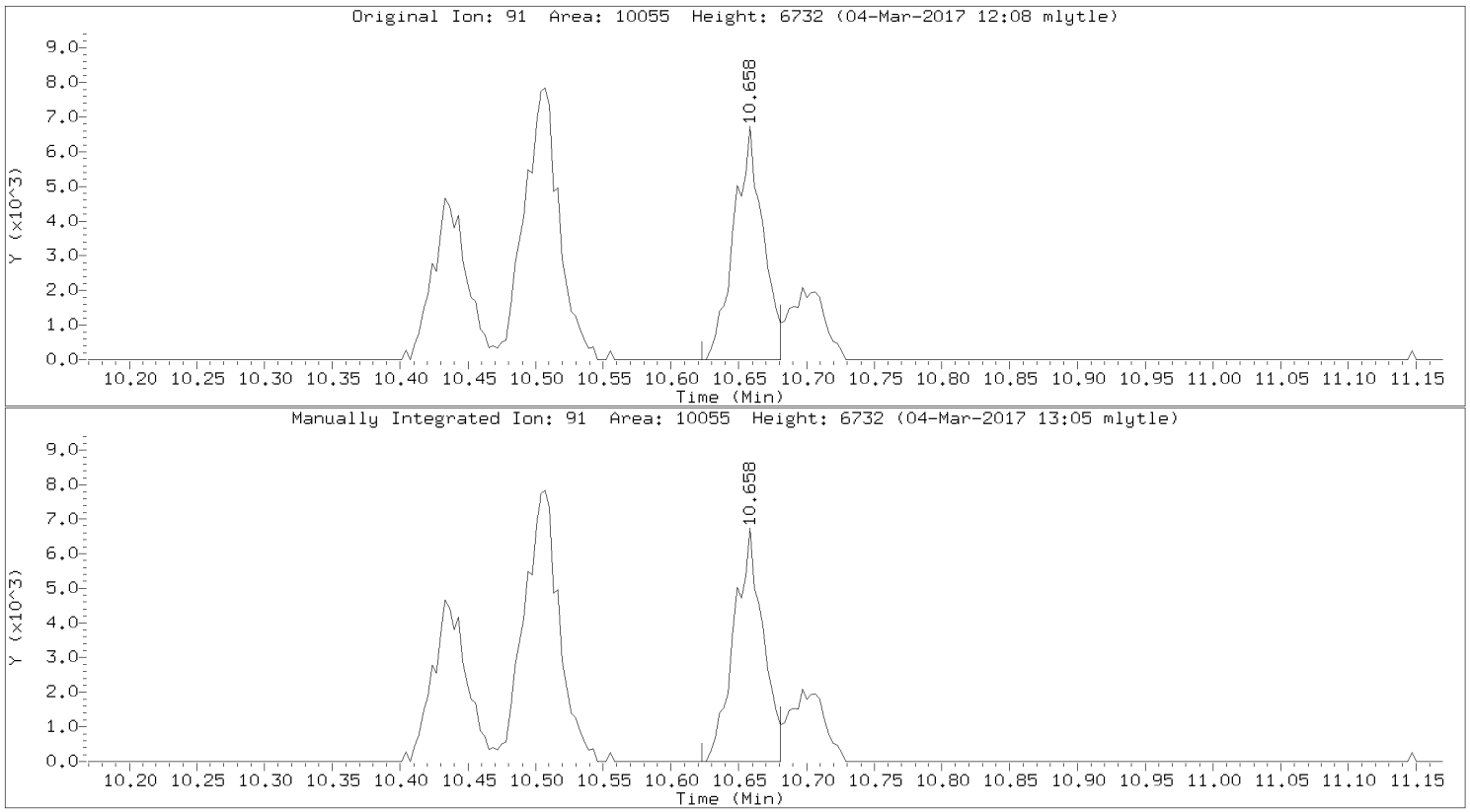








Data File: \\192.168.10.12\chem\10air7.i\030417.b/06306.D
Injection Date: 04-MAR-2017 08:57
Instrument: 10air7.i
Lab Sample ID: CAL3



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Lab Smp Id: CAL4
Inj Date : 04-MAR-2017 09:22
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:07 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 08:57 Cal File: 06306.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)	
1	Chloropentafluoroethane	85	2.314	2.314	(0.514)	1163	1.00000		(a)
2	1,1-Difluoroethane	65	2.362	2.362	(0.525)	12488	1.00000	0.952	
3	Chlorodifluoromethane	67	2.375	2.375	(0.528)	6338	1.00000	0.937	
4	Propylene	41	2.385	2.385	(0.530)	42059	1.00000	1.48	
5	Dichlorodifluoromethane	85	2.404	2.404	(0.534)	64467	1.00000	0.929	
6	Chloromethane	50	2.468	2.468	(0.548)	25672	1.00000	0.902	
7	Dichlorotetrafluoroethane	85	2.468	2.468	(0.548)	57297	1.00000	0.901	
8	Vinyl chloride	62	2.529	2.529	(0.562)	17619	1.00000	0.843	
9	1,3-Butadiene	54	2.558	2.558	(0.569)	12525	1.00000	0.818	
10	Bromomethane	94	2.661	2.661	(0.591)	18719	1.00000	0.824	
11	Chloroethane	64	2.693	2.693	(0.599)	6994	1.00000	0.857	
12	Ethanol	45	2.716	2.716	(0.604)	25408	5.00000	4.21	
13	Vinyl Bromide	106	2.787	2.787	(0.619)	19906	1.00000	0.846	
14	Isopentane	43	2.799	2.799	(0.622)	19252	1.00000	0.842	
15	Freon 123	83	2.796	2.796	(0.621)	43211	1.00000	0.822	
16	Trichlorofluoromethane	101	2.857	2.857	(0.635)	58896	1.00000	0.854	
17	Acrolein	56	2.848	2.848	(0.633)	11079	2.50000	1.95	
18	Acetone	43	2.873	2.873	(0.639)	174898	5.00000	4.36	
19	Isopropyl Alcohol	45	2.889	2.889	(0.642)	136434	5.00000	4.05	
20	1,1-Dichloroethene	61	3.047	3.047	(0.677)	32191	1.00000	0.844	
21	Acrylonitrile	53	3.044	3.044	(0.676)	30219	2.50000	1.94	
22	Freon 113	101	3.076	3.076	(0.684)	44321	1.00000	0.859	
23	Tert Butyl Alcohol (TBA)	59	3.047	3.047	(0.677)	93650	2.50000	2.08	

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.073	3.073	(0.683)	33139	1.00000	0.724(Q)
	25 Methylene chloride	49	3.118	3.118	(0.693)	119177	5.00000	4.25
	26 Allyl Chloride	76	3.127	3.127	(0.695)	11970	2.50000	1.81
	27 Carbon Disulfide	76	3.224	3.224	(0.716)	39741	1.00000	0.821
	28 trans-1,2-dichloroethene	96	3.340	3.340	(0.742)	16360	1.00000	0.798
	29 Methyl Tert Butyl Ether	73	3.359	3.359	(0.746)	116755	2.50000	2.11
	30 Vinyl Acetate	43	3.433	3.433	(0.763)	32200	1.00000	0.667
	31 1,1-Dichloroethane	63	3.449	3.449	(0.766)	33127	1.00000	0.824
$	32 Hexane-d14(S)	66	3.523	3.523	(0.783)	228063	10.0000	9.37
	33 Methyl Ethyl Ketone	72	3.578	3.578	(0.795)	6169	1.00000	0.814(Q)
	34 n-Hexane	57	3.606	3.606	(0.801)	23767	1.00000	0.794
	35 Di-isopropyl Ether	45	3.616	3.616	(0.804)	61862	1.00000	0.828
	36 cis-1,2-Dichloroethene	96	3.719	3.719	(0.826)	18045	1.00000	0.815
	37 Ethyl Acetate	43	3.716	3.716	(0.826)	36681	1.00000	0.772
	38 Ethyl Tert-Butyl Ether	59	3.809	3.809	(0.846)	149334	2.50000	2.14
	39 Chloroform	83	3.815	3.815	(0.848)	42316	1.00000	0.856
	40 Tetrahydrofuran	42	3.950	3.950	(0.878)	17808	1.00000	0.769
	41 1,1,1-Trichloroethane	97	4.159	4.159	(0.924)	56613	1.00000	0.937
	42 1,2-Dichloroethane	62	4.166	4.166	(0.926)	36538	1.00000	0.898
	43 Benzene	78	4.362	4.362	(0.969)	59556	1.00000	0.862
	44 Carbon tetrachloride	117	4.378	4.378	(0.973)	57215	1.00000	0.863
	45 Cyclohexane	56	4.385	4.385	(0.974)	29817	1.00000	0.861
	46 Tert Amyl Methyl Ether	73	4.494	4.494	(0.999)	67237	1.00000	0.763
*	47 1,4-Difluorobenzene	114	4.500	4.500	(1.000)	891683	10.0000	
	48 2,2,4-Trimethylpentane	57	4.632	4.632	(1.029)	251594	2.50000	2.27
	49 Heptane	43	4.751	4.751	(1.056)	40069	1.00000	0.885
	50 1,2-Dichloropropane	63	4.815	4.815	(1.070)	23444	1.00000	0.881
	51 Trichloroethene	130	4.835	4.835	(1.074)	37344	1.00000	0.888
	52 Methyl methacrylate	69	4.899	4.899	(1.089)	16977	1.00000	0.823
	53 Bromodichloromethane	83	4.922	4.922	(1.094)	49611	1.00000	0.856
	54 1,4-Dioxane	88	4.915	4.915	(1.092)	8840	1.00000	0.771
	55 Methylcyclohexane	98	5.230	5.230	(1.162)	13708	1.00000	0.916
	56 Methyl Isobutyl Ketone	43	5.340	5.340	(1.186)	134273	2.50000	2.22
	57 cis-1,3-Dichloropropene	75	5.391	5.391	(1.198)	33619	1.00000	0.865
	58 trans-1,3-Dichloropropene	75	5.764	5.764	(1.281)	29021	1.00000	0.825
$	59 Toluene-d8 (S)	98	5.831	5.831	(1.296)	742857	10.0000	9.92
	60 Toluene	91	5.902	5.902	(1.311)	75998	1.00000	0.902
	61 1,1,2-Trichloroethane	97	5.905	5.905	(1.312)	27357	1.00000	0.862
	62 Methyl Butyl Ketone	43	6.127	6.127	(0.839)	111463	2.50000	2.05
	63 n-Octane	43	6.320	6.320	(0.865)	49592	1.00000	0.877
	64 Dibromochloromethane	129	6.391	6.391	(0.875)	54783	1.00000	0.832
	65 1,2-Dibromoethane	107	6.610	6.610	(0.905)	44128	1.00000	0.854
	66 Tetrachloroethene	166	6.684	6.684	(0.915)	50129	1.00000	0.891
*	67 Chlorobenzene - d5	117	7.307	7.307	(1.000)	567428	10.0000	
	68 Chlorobenzene	112	7.346	7.346	(1.005)	59698	1.00000	0.873
	69 Ethyl Benzene	91	7.590	7.590	(1.039)	91250	1.00000	0.861
	70 m&p-Xylene	91	7.735	7.735	(1.059)	139561	2.00000	1.68
	71 Bromoform	173	8.101	8.101	(1.109)	37930	1.00000	0.710
	72 n-Nonane	43	8.130	8.130	(1.113)	46287	1.00000	0.911
	73 Styrene	104	8.146	8.146	(1.115)	46935	1.00000	0.867
	74 o-Xylene	91	8.208	8.208	(1.123)	72238	1.00000	0.869
	75 1,1,2,2-Tetrachloroethane	83	8.465	8.465	(1.158)	40850	1.00000	0.814
	76 Isopropylbenzene	105	8.777	8.777	(1.201)	100618	1.00000	0.881
	77 N-Propylbenzene	91	9.336	9.336	(1.278)	101302	1.00000	0.869

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.510	9.510	(1.301)	85339	1.00000	0.845(M)
79	1,3,5-Trimethylbenzene	105	9.600	9.600	(1.314)	76100	1.00000	0.883
80	n-Decane	57	10.002	10.002	(2.222)	35067	1.00000	0.886
81	Tert-Butyl Benzene	119	10.092	10.092	(1.381)	84237	1.00000	0.913
82	1,2,4-Trimethylbenzene	105	10.111	10.111	(1.384)	70599	1.00000	0.957
83	1,3-Dichlorobenzene	146	10.413	10.413	(1.425)	40641	1.00000	0.813
84	Sec- Butylbenzene	105	10.436	10.436	(1.428)	100878	1.00000	0.905
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.484	10.484	(1.435)	223323	10.0000	9.62
86	Benzyl Chloride	91	10.507	10.507	(1.438)	24871	1.00000	0.661
87	1,4-Dichlorobenzene	146	10.523	10.523	(1.440)	35912	1.00000	0.783
88	p-Isopropyltoluene	119	10.658	10.658	(1.458)	82478	1.00000	0.902
89	1,2,3-Trimethylbenzene	105	10.703	10.703	(1.465)	64626	1.00000	0.858
90	1,2-Dichlorobenzene	146	10.995	10.995	(1.505)	36390	1.00000	0.824
91	N-Butylbenzene	91	11.252	11.252	(1.540)	52074	1.00000	0.847
92	1,2-Dibromo-3-Chloropropane	157	11.773	11.773	(1.611)	7290	1.00000	0.693
93	1,2,4-Trichlorobenzene	180	13.047	13.047	(1.785)	4736	1.00000	0.971
94	Naphthalene	128	13.166	13.166	(1.802)	10481	1.00000	0.887(M)
95	Hexachlorobutadiene	225	13.423	13.423	(1.837)	17276	1.00000	1.23

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06307.D
Lab Smp Id: CAL4
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	891683	6.66
67 Chlorobenzene - d	539522	323713	755331	567428	5.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.15
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06307.D

Date : 04-MAR-2017 09:22

Client ID:

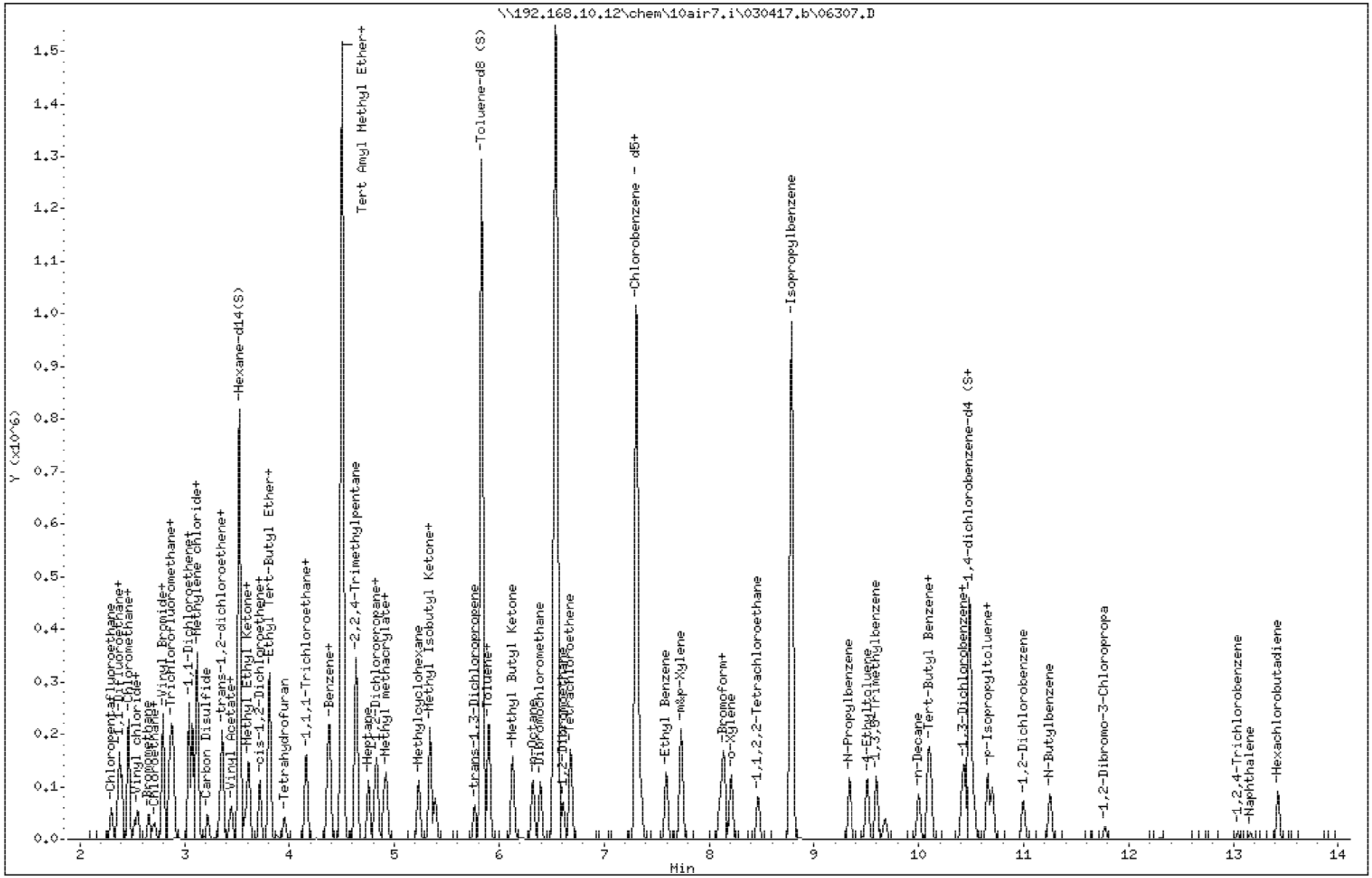
Instrument: 10air7.i

Sample Info:

Operator: MJL

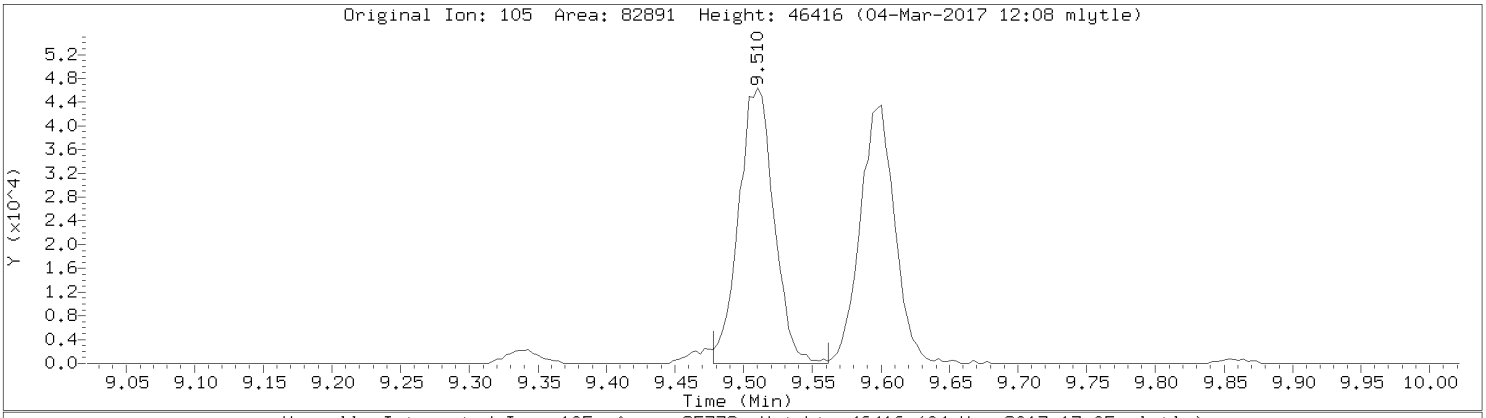
Column phase: J&W DB-5

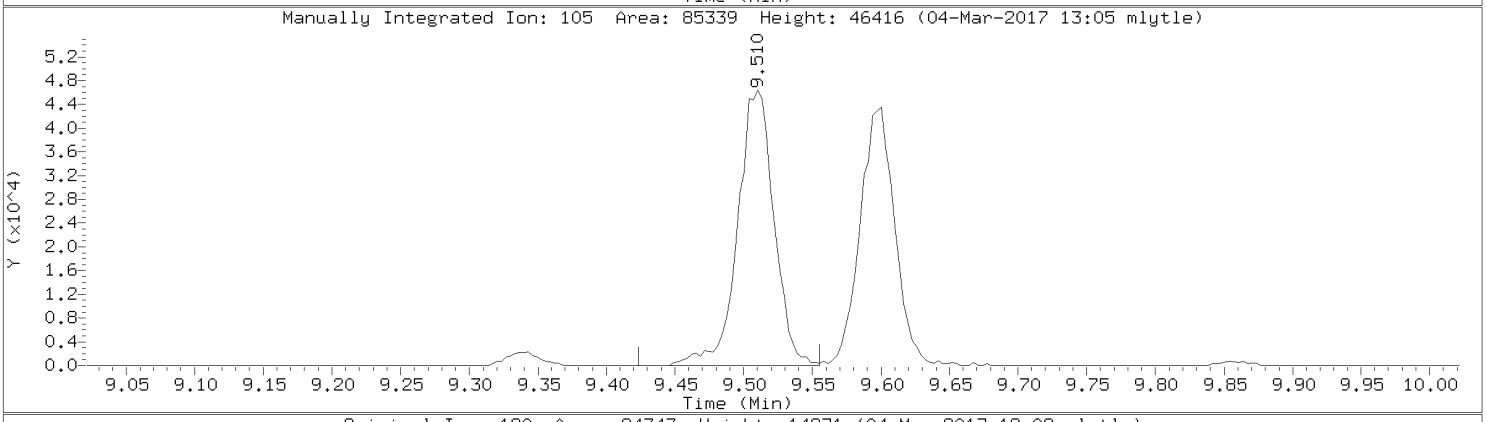
Column diameter: 0.32

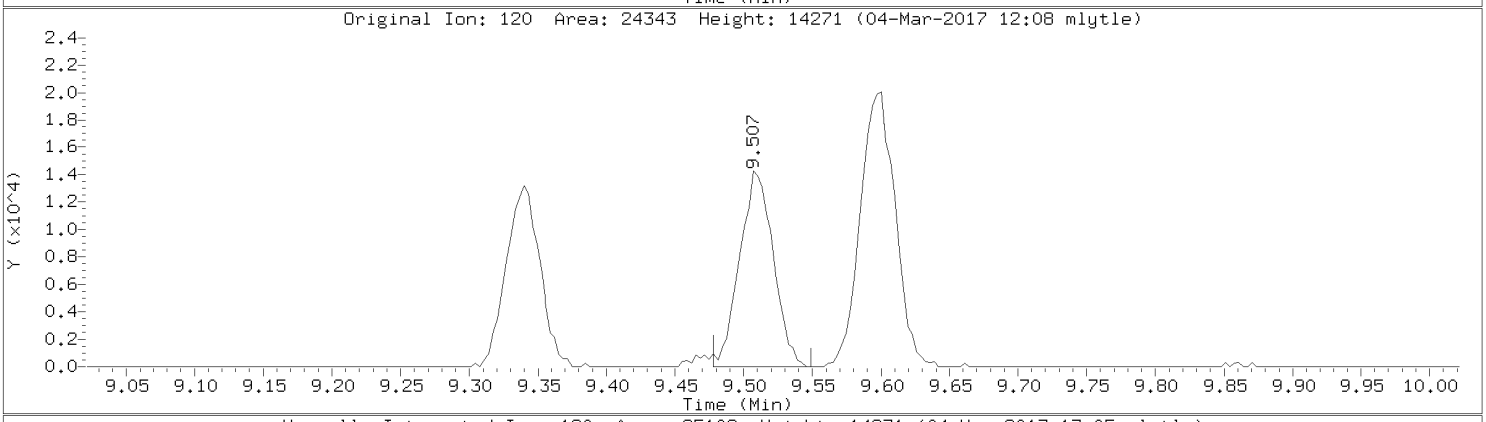


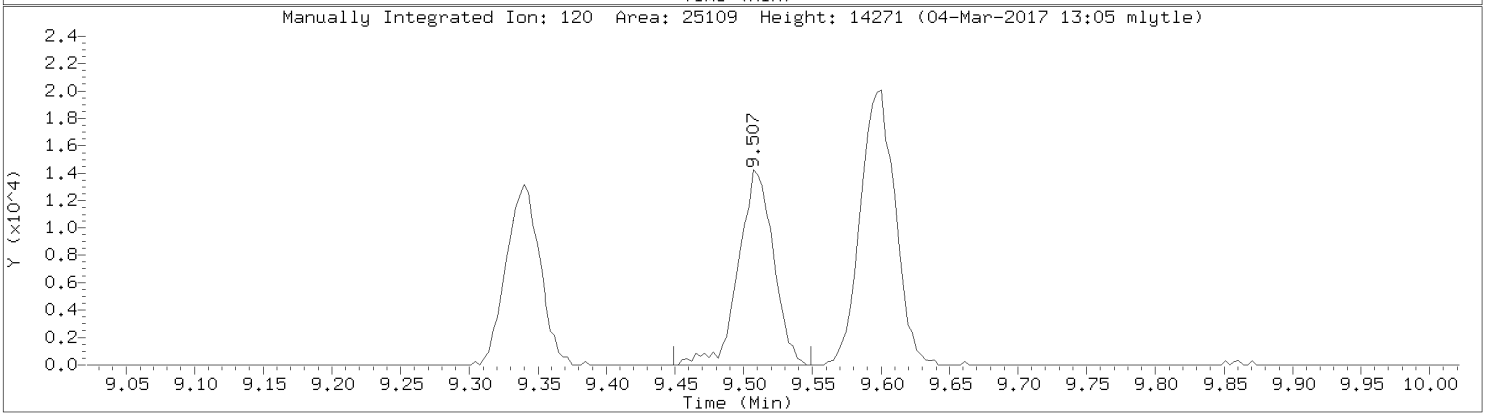
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06307.D
Injection Date: 04-MAR-2017 09:22
Instrument: 10air7.i
Lab Sample ID: CAL4

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

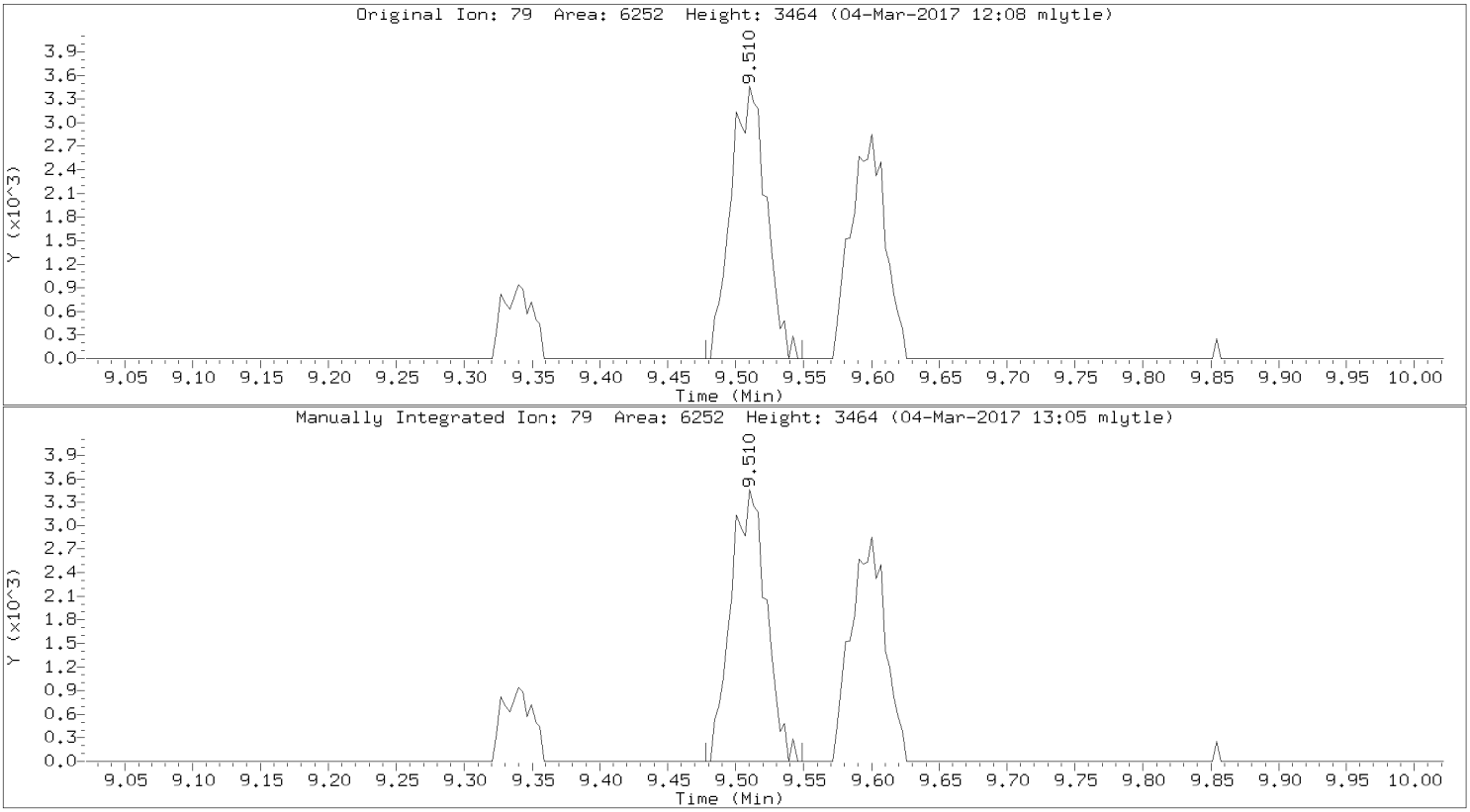






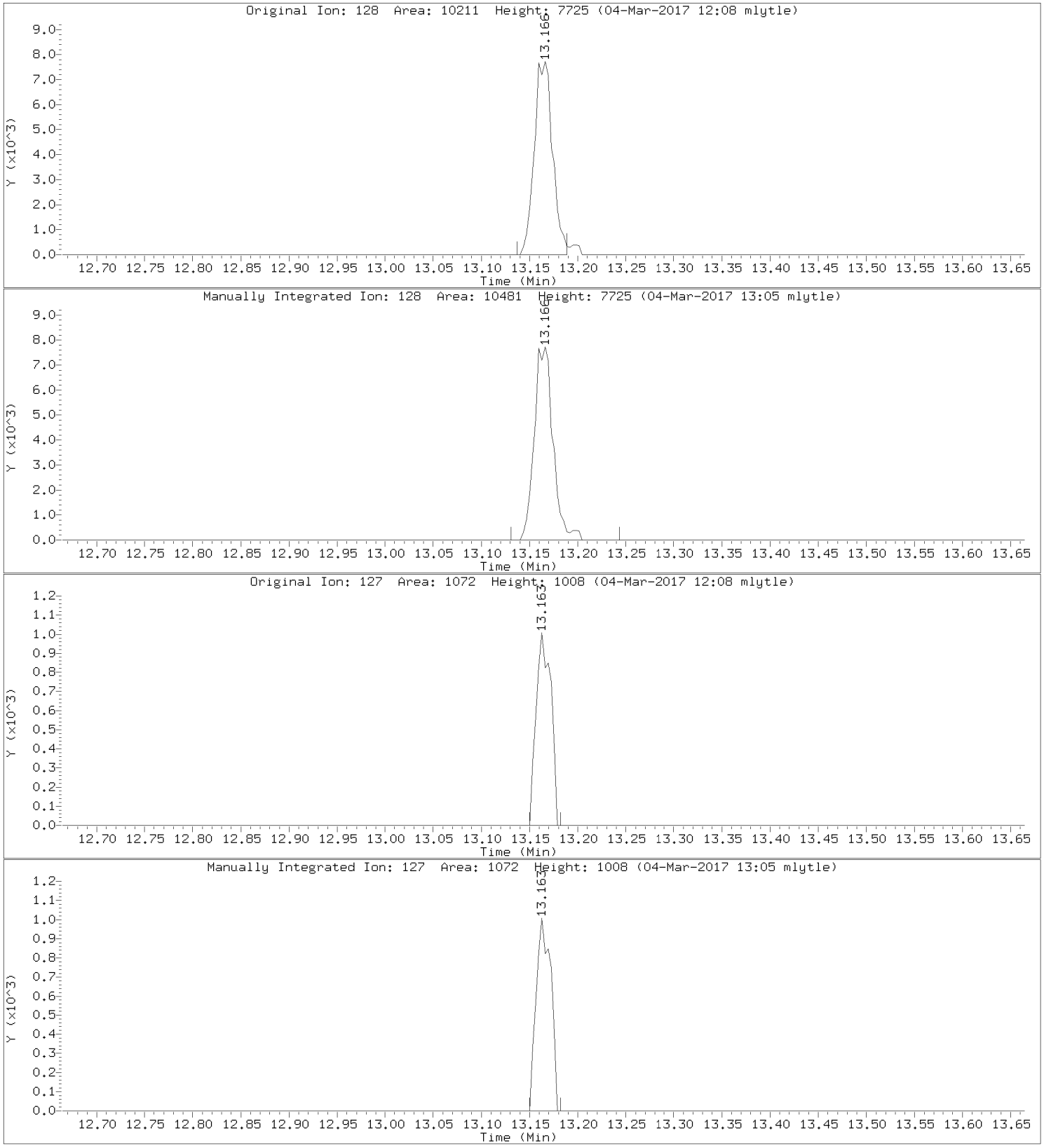


Data File: \\192.168.10.12\chem\10air7.i\030417.b/06307.D
Injection Date: 04-MAR-2017 09:22
Instrument: 10air7.i
Lab Sample ID: CAL4



Data File: \\192.168.10.12\chem\10air7.i\030417.b/06307.D
Injection Date: 04-MAR-2017 09:22
Instrument: 10air7.i
Lab Sample ID: CAL4

Compound: Naphthalene
CAS Number: 91-20-3



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Lab Smp Id: CAL5
Inj Date : 04-MAR-2017 09:46
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:07 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 09:22 Cal File: 06307.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.317	2.317	(0.514)	44166	10.0000	(a)
2	1,1-Difluoroethane	65	2.362	2.362	(0.524)	127805	10.0000	10.4
3	Chlorodifluoromethane	67	2.372	2.372	(0.526)	68635	10.0000	10.8(Q)
4	Propylene	41	2.382	2.382	(0.528)	180601	10.0000	10.3
5	Dichlorodifluoromethane	85	2.401	2.401	(0.533)	677712	10.0000	10.4
6	Chloromethane	50	2.468	2.468	(0.548)	265241	10.0000	9.94
7	Dichlorotetrafluoroethane	85	2.468	2.468	(0.548)	596743	10.0000	10.0
8	Vinyl chloride	62	2.526	2.526	(0.561)	190841	10.0000	9.74
9	1,3-Butadiene	54	2.555	2.555	(0.567)	138102	10.0000	9.62
10	Bromomethane	94	2.661	2.661	(0.591)	207426	10.0000	9.73
11	Chloroethane	64	2.697	2.697	(0.598)	74522	10.0000	9.74
12	Ethanol	45	2.722	2.722	(0.604)	311854	50.0000	55.1
13	Vinyl Bromide	106	2.787	2.787	(0.618)	217920	10.0000	9.88
14	Isopentane	43	2.800	2.800	(0.621)	202370	10.0000	9.44
15	Freon 123	83	2.800	2.800	(0.621)	480863	10.0000	9.76
16	Trichlorofluoromethane	101	2.861	2.861	(0.635)	635559	10.0000	9.83
17	Acrolein	56	2.848	2.848	(0.632)	159583	25.0000	30.0
18	Acetone	43	2.877	2.877	(0.638)	1610669	50.0000	42.8(M)
19	Isopropyl Alcohol	45	2.899	2.899	(0.643)	1581638	50.0000	50.1(QM)
20	1,1-Dichloroethene	61	3.047	3.047	(0.676)	354657	10.0000	9.91
21	Acrylonitrile	53	3.047	3.047	(0.676)	365640	25.0000	25.0
22	Freon 113	101	3.076	3.076	(0.683)	477353	10.0000	9.87
23	Tert Butyl Alcohol (TBA)	59	3.057	3.057	(0.678)	1109672	25.0000	26.3

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.073	3.073	(0.682)	422151	10.0000	9.83(M)
	25 Methylene chloride	49	3.121	3.121	(0.693)	1252296	50.0000	47.7
	26 Allyl Chloride	76	3.131	3.131	(0.695)	182379	25.0000	29.4(Q)
	27 Carbon Disulfide	76	3.224	3.224	(0.715)	457849	10.0000	10.1
	28 trans-1,2-dichloroethene	96	3.343	3.343	(0.742)	192420	10.0000	10.0
	29 Methyl Tert Butyl Ether	73	3.362	3.362	(0.746)	1292391	25.0000	24.9
	30 Vinyl Acetate	43	3.439	3.439	(0.763)	554246	10.0000	12.2
	31 1,1-Dichloroethane	63	3.455	3.455	(0.767)	363990	10.0000	9.66
$	32 Hexane-d14(S)	66	3.523	3.523	(0.782)	223216	10.0000	9.78
	33 Methyl Ethyl Ketone	72	3.574	3.574	(0.793)	69437	10.0000	9.78(M)
	34 n-Hexane	57	3.607	3.607	(0.800)	269375	10.0000	9.59
	35 Di-isopropyl Ether	45	3.616	3.616	(0.802)	672298	10.0000	9.59
	36 cis-1,2-Dichloroethene	96	3.722	3.722	(0.826)	209223	10.0000	10.1
	37 Ethyl Acetate	43	3.719	3.719	(0.825)	436276	10.0000	9.80
	38 Ethyl Tert-Butyl Ether	59	3.812	3.812	(0.846)	1647148	25.0000	25.2
	39 Chloroform	83	3.822	3.822	(0.848)	474303	10.0000	10.2
	40 Tetrahydrofuran	42	3.951	3.951	(0.877)	210350	10.0000	9.68
	41 1,1,1-Trichloroethane	97	4.163	4.163	(0.924)	586737	10.0000	10.4
	42 1,2-Dichloroethane	62	4.172	4.172	(0.926)	395910	10.0000	10.4
	43 Benzene	78	4.372	4.372	(0.970)	635062	10.0000	9.80
	44 Carbon tetrachloride	117	4.385	4.385	(0.973)	704654	10.0000	11.3
	45 Cyclohexane	56	4.388	4.388	(0.974)	315878	10.0000	9.73
	46 Tert Amyl Methyl Ether	73	4.494	4.494	(0.997)	631504	10.0000	11.0
*	47 1,4-Difluorobenzene	114	4.507	4.507	(1.000)	835982	10.0000	
	48 2,2,4-Trimethylpentane	57	4.642	4.642	(1.030)	2434296	25.0000	23.4
	49 Heptane	43	4.758	4.758	(1.056)	401156	10.0000	9.45
	50 1,2-Dichloropropane	63	4.819	4.819	(1.069)	241477	10.0000	9.68
	51 Trichloroethene	130	4.841	4.841	(1.074)	377153	10.0000	9.56
	52 Methyl methacrylate	69	4.906	4.906	(1.088)	197820	10.0000	10.2
	53 Bromodichloromethane	83	4.928	4.928	(1.093)	581353	10.0000	10.7
	54 1,4-Dioxane	88	4.912	4.912	(1.090)	112983	10.0000	10.5
	55 Methylcyclohexane	98	5.237	5.237	(1.162)	139112	10.0000	9.91
	56 Methyl Isobutyl Ketone	43	5.343	5.343	(1.185)	1387611	25.0000	24.5
	57 cis-1,3-Dichloropropene	75	5.394	5.394	(1.197)	382696	10.0000	10.5
	58 trans-1,3-Dichloropropene	75	5.767	5.767	(1.280)	368669	10.0000	11.2
$	59 Toluene-d8 (S)	98	5.838	5.838	(1.295)	700611	10.0000	9.98
	60 Toluene	91	5.909	5.909	(1.311)	763373	10.0000	9.66
	61 1,1,2-Trichloroethane	97	5.912	5.912	(1.312)	289096	10.0000	9.71
	62 Methyl Butyl Ketone	43	6.127	6.127	(0.838)	1240867	25.0000	24.0
	63 n-Octane	43	6.327	6.327	(0.865)	526367	10.0000	9.79
	64 Dibromochloromethane	129	6.401	6.401	(0.875)	712329	10.0000	11.4
	65 1,2-Dibromoethane	107	6.613	6.613	(0.904)	510774	10.0000	10.4
	66 Tetrachloroethene	166	6.687	6.687	(0.914)	520542	10.0000	9.73
*	67 Chlorobenzene - d5	117	7.314	7.314	(1.000)	539522	10.0000	
	68 Chlorobenzene	112	7.352	7.352	(1.005)	645942	10.0000	9.93
	69 Ethyl Benzene	91	7.597	7.597	(1.039)	970563	10.0000	9.63
	70 m&p-Xylene	91	7.738	7.738	(1.058)	1483363	20.0000	18.8
	71 Bromoform	173	8.108	8.108	(1.109)	672881	10.0000	13.2
	72 n-Nonane	43	8.134	8.134	(1.112)	506899	10.0000	10.5
	73 Styrene	104	8.150	8.150	(1.114)	533520	10.0000	10.4
	74 o-Xylene	91	8.214	8.214	(1.123)	753757	10.0000	9.54
	75 1,1,2,2-Tetrachloroethane	83	8.471	8.471	(1.158)	466052	10.0000	9.76
	76 Isopropylbenzene	105	8.780	8.780	(1.200)	1062475	10.0000	9.78
	77 N-Propylbenzene	91	9.343	9.343	(1.277)	1120900	10.0000	10.1

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.513	9.513	(1.301)	954715	10.0000	9.94
79	1,3,5-Trimethylbenzene	105	9.600	9.600	(1.313)	797469	10.0000	9.74
80	n-Decane	57	10.005	10.005	(2.220)	397114	10.0000	10.7
81	Tert-Butyl Benzene	119	10.095	10.095	(1.380)	841040	10.0000	9.59
82	1,2,4-Trimethylbenzene	105	10.114	10.114	(1.383)	725562	10.0000	10.3
83	1,3-Dichlorobenzene	146	10.417	10.417	(1.424)	473421	10.0000	9.96
84	Sec- Butylbenzene	105	10.439	10.439	(1.427)	1029073	10.0000	9.71
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.487	10.487	(1.434)	237383	10.0000	10.8
86	Benzyl Chloride	91	10.507	10.507	(1.437)	407481	10.0000	11.4(M)
87	1,4-Dichlorobenzene	146	10.529	10.529	(1.440)	429211	10.0000	9.85
88	p-Isopropyltoluene	119	10.661	10.661	(1.458)	858242	10.0000	9.87
89	1,2,3-Trimethylbenzene	105	10.706	10.706	(1.464)	662598	10.0000	9.25
90	1,2-Dichlorobenzene	146	10.999	10.999	(1.504)	410518	10.0000	9.78
91	N-Butylbenzene	91	11.253	11.253	(1.538)	588769	10.0000	10.1
92	1,2-Dibromo-3-Chloropropane	157	11.773	11.773	(1.610)	115991	10.0000	11.6
93	1,2,4-Trichlorobenzene	180	13.044	13.044	(1.783)	45723	10.0000	9.27
94	Naphthalene	128	13.162	13.162	(1.800)	90166	10.0000	10.0
95	Hexachlorobutadiene	225	13.426	13.426	(1.836)	106467	10.0000	10.5

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06308.D
Lab Smp Id: CAL5
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

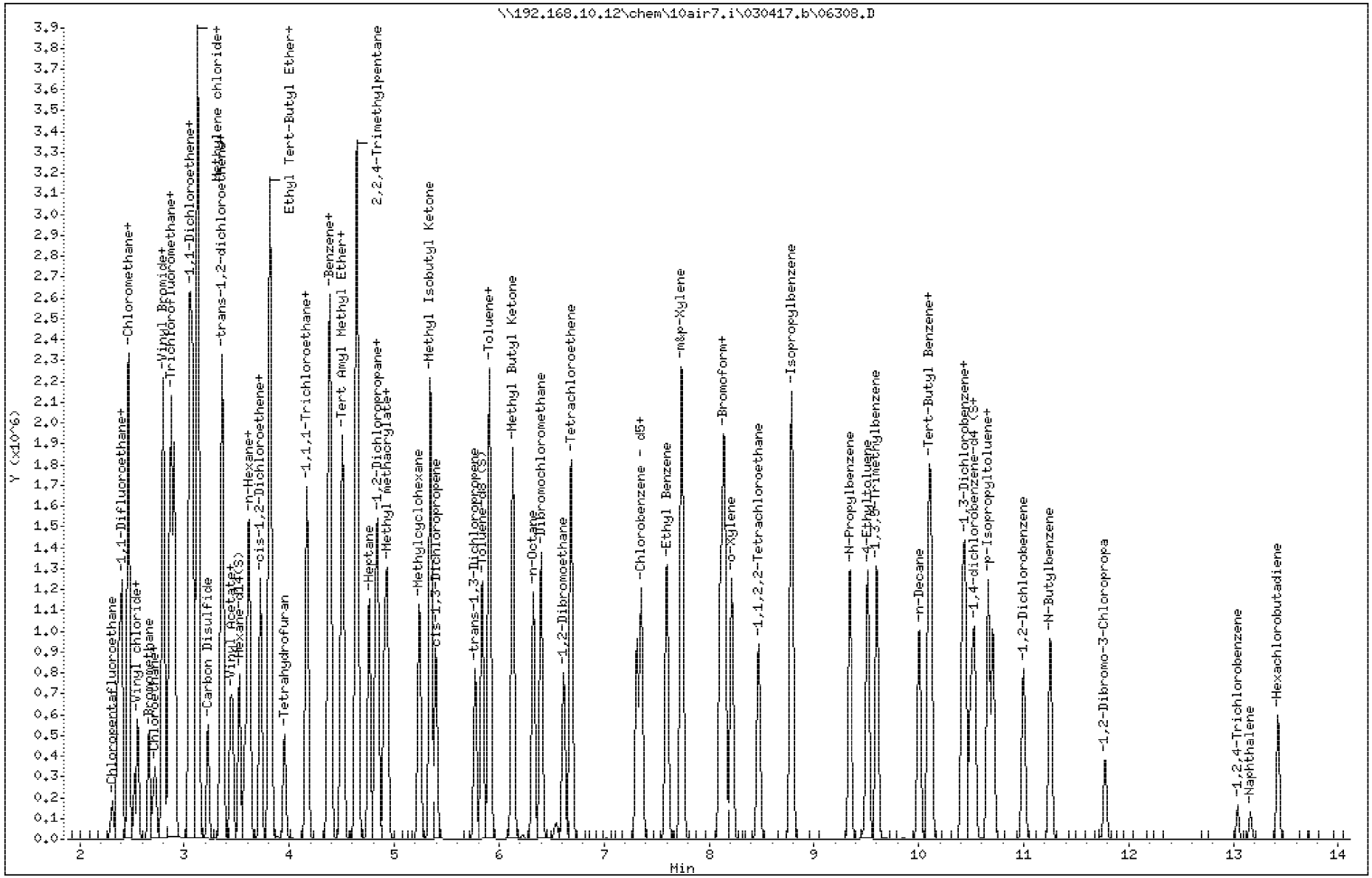
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	835982	0.00
67 Chlorobenzene - d	539522	323713	755331	539522	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.51	0.00
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

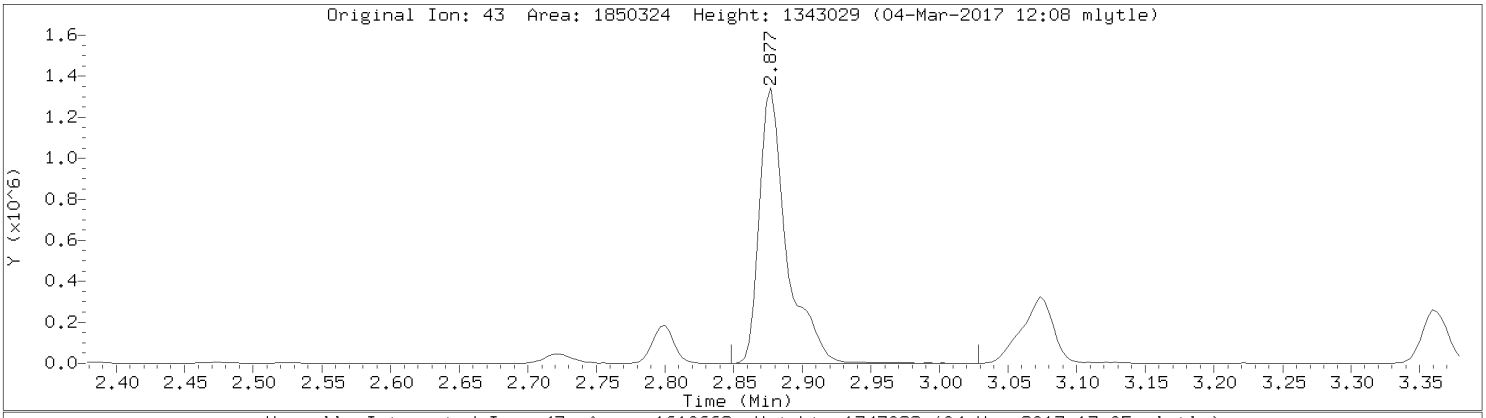
Data File: \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Date : 04-MAR-2017 09:46
Client ID:
Sample Info:

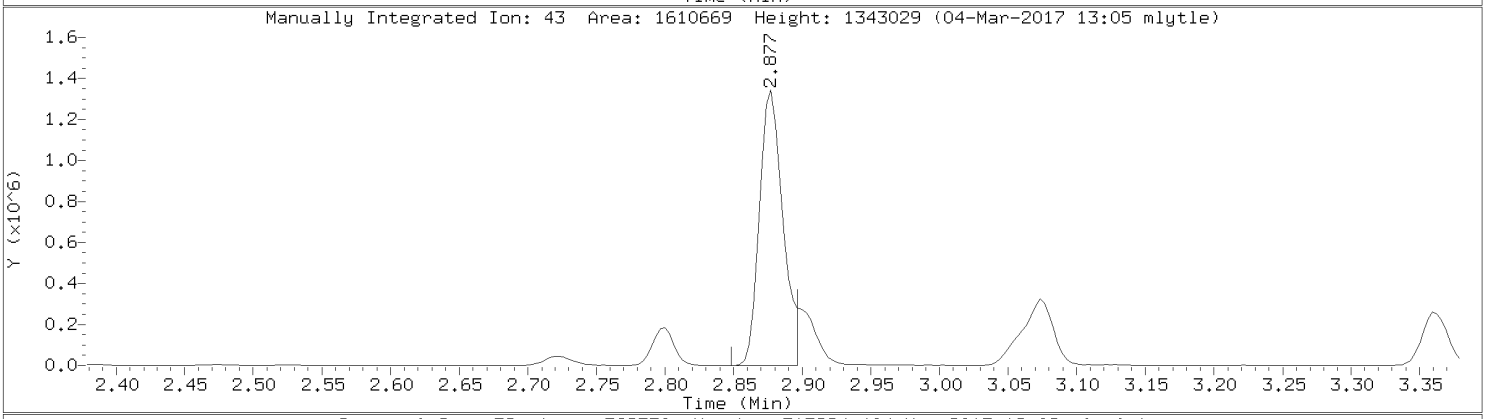
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

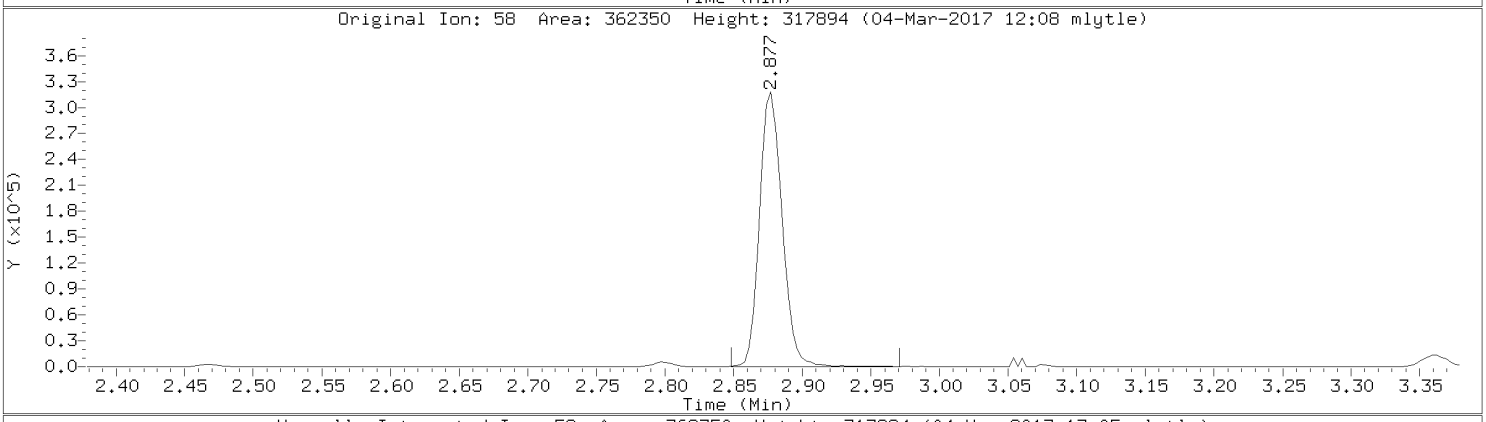


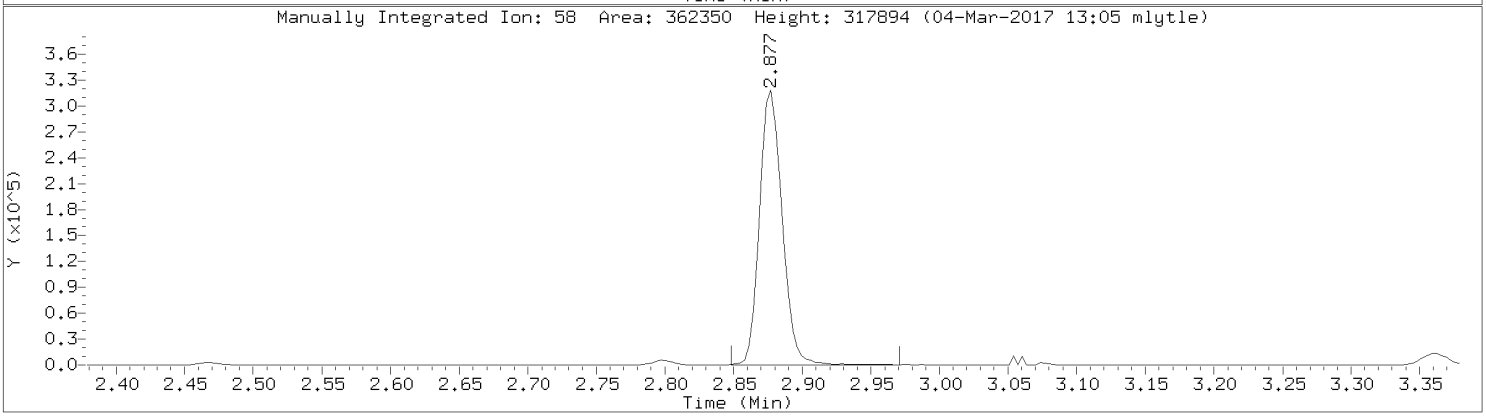
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5

Compound: Acetone
CAS Number: 67-64-1



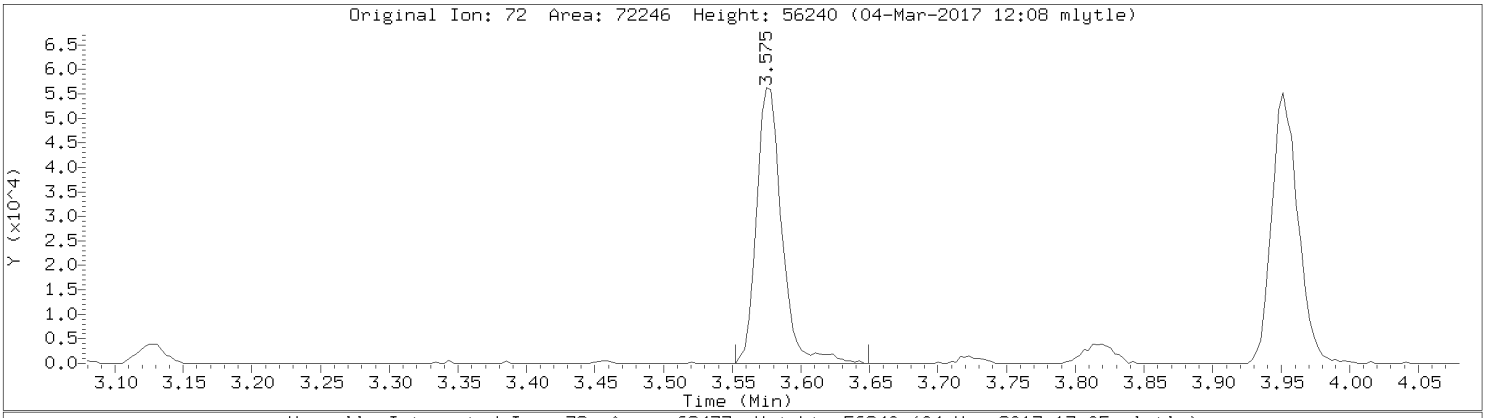


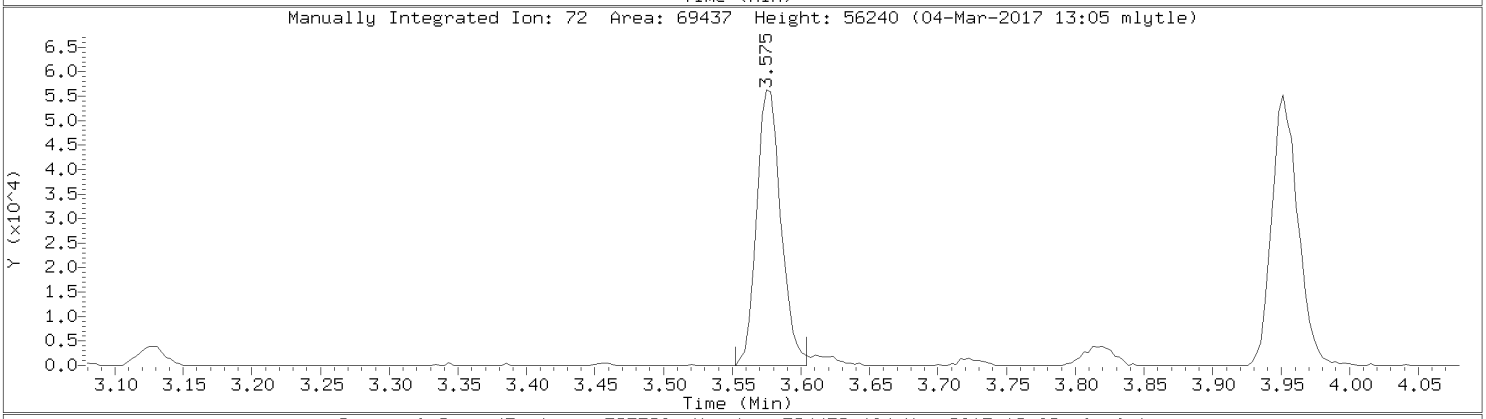


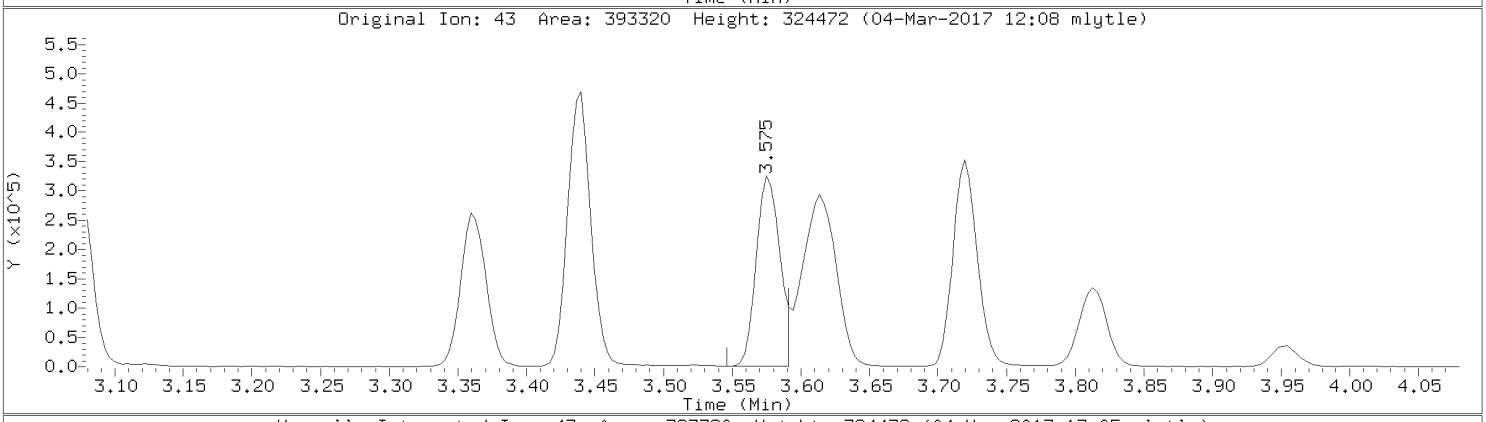


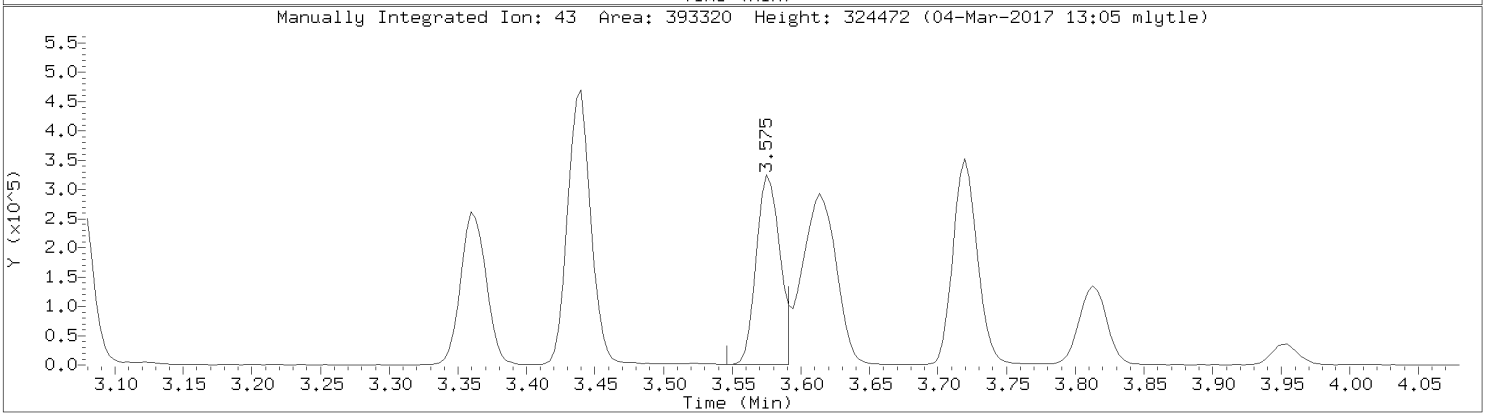
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



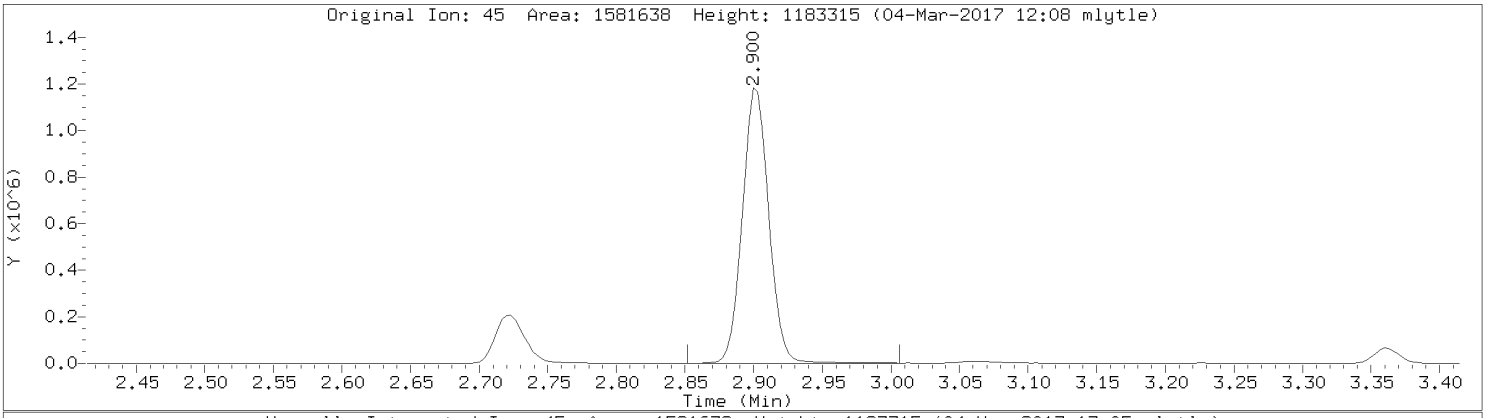


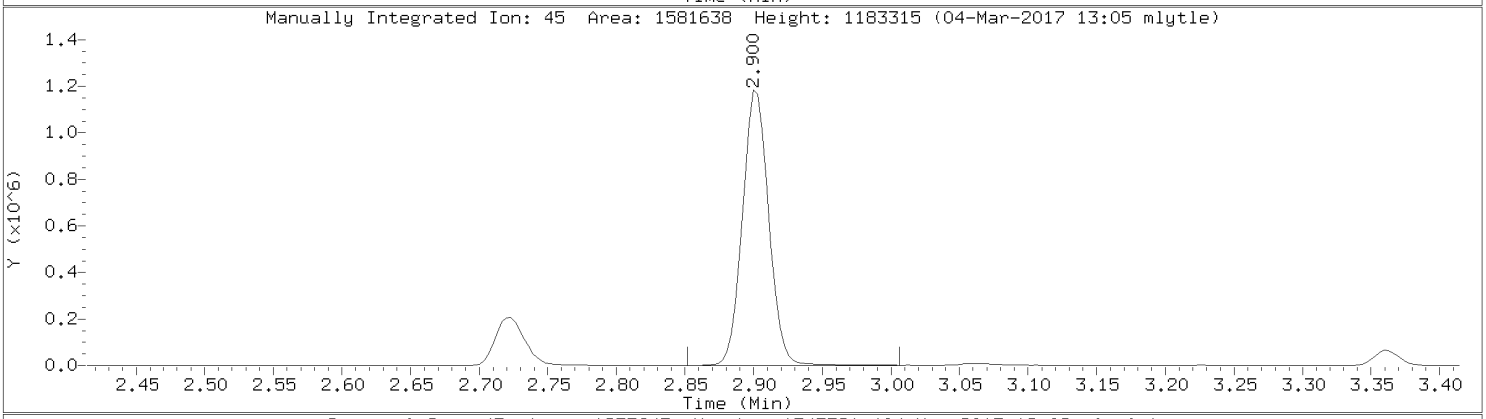


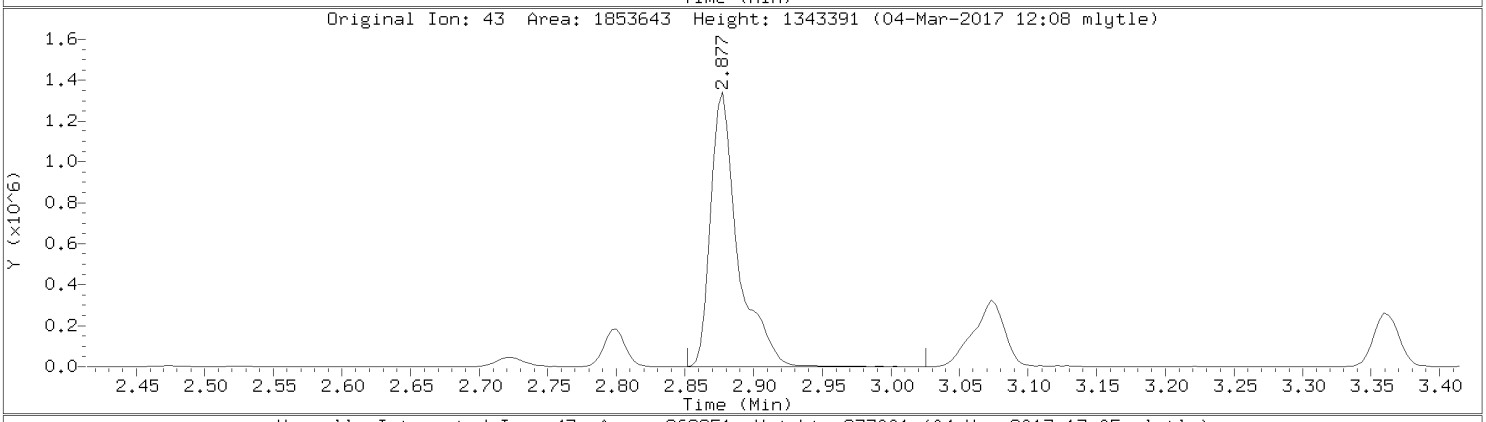


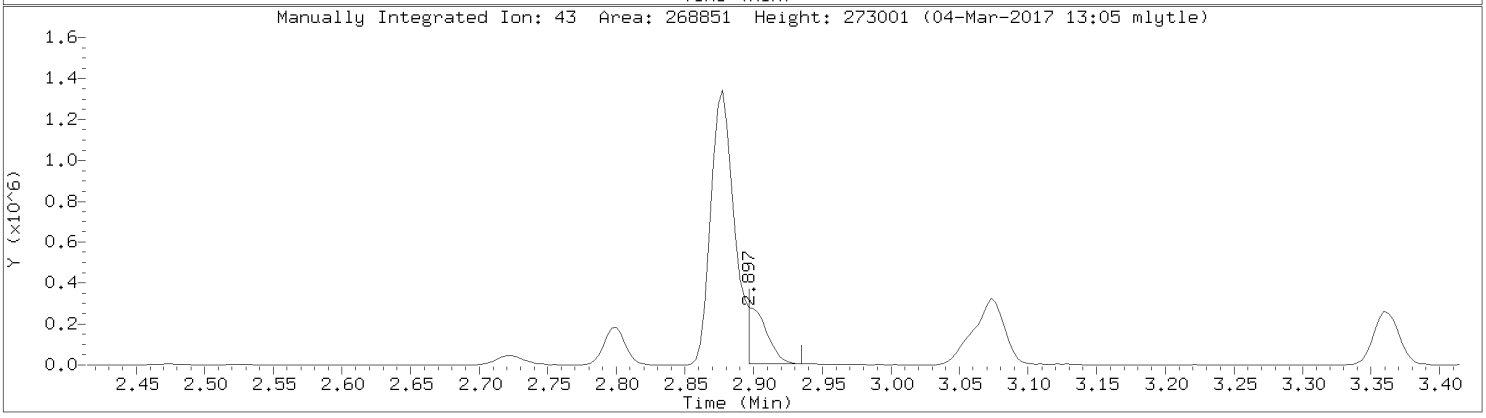
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



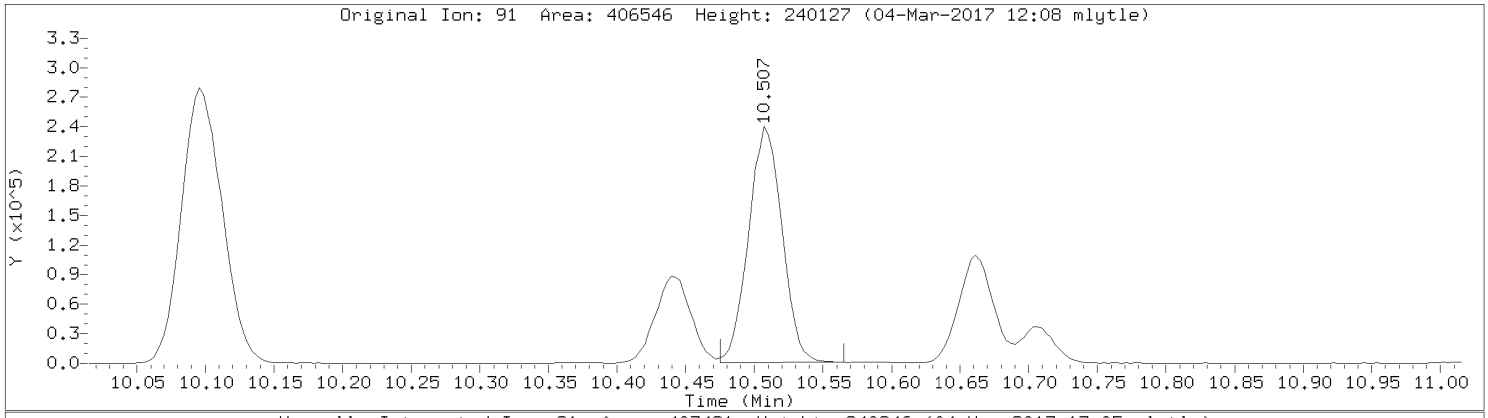


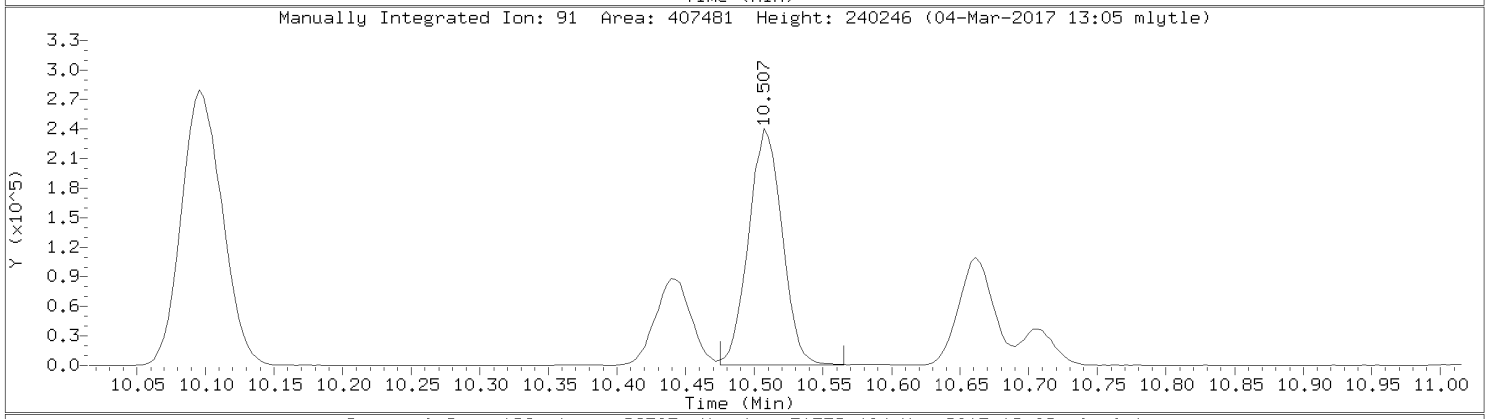


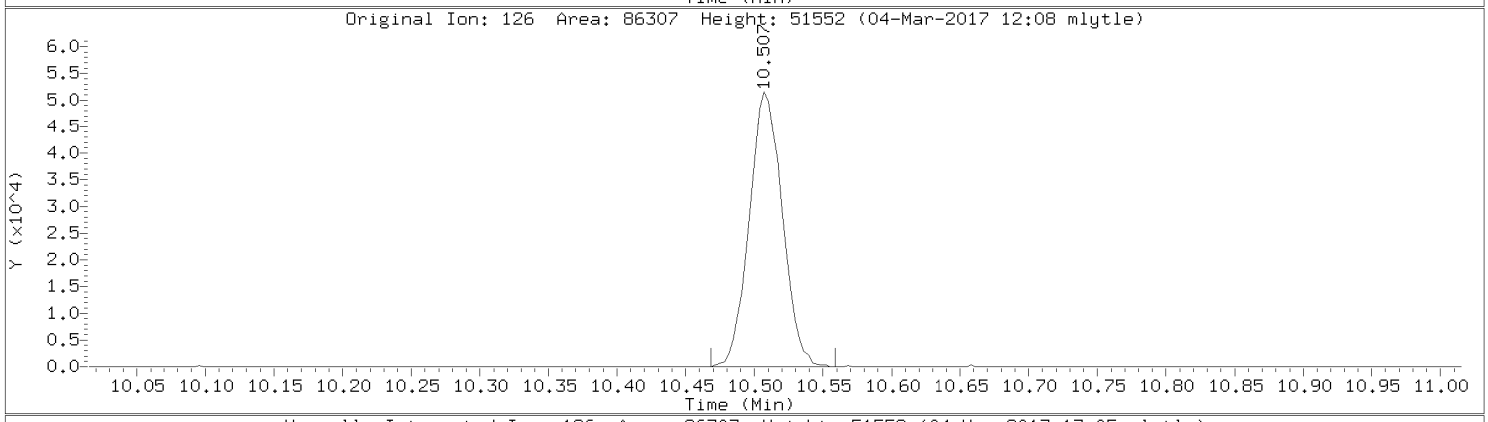


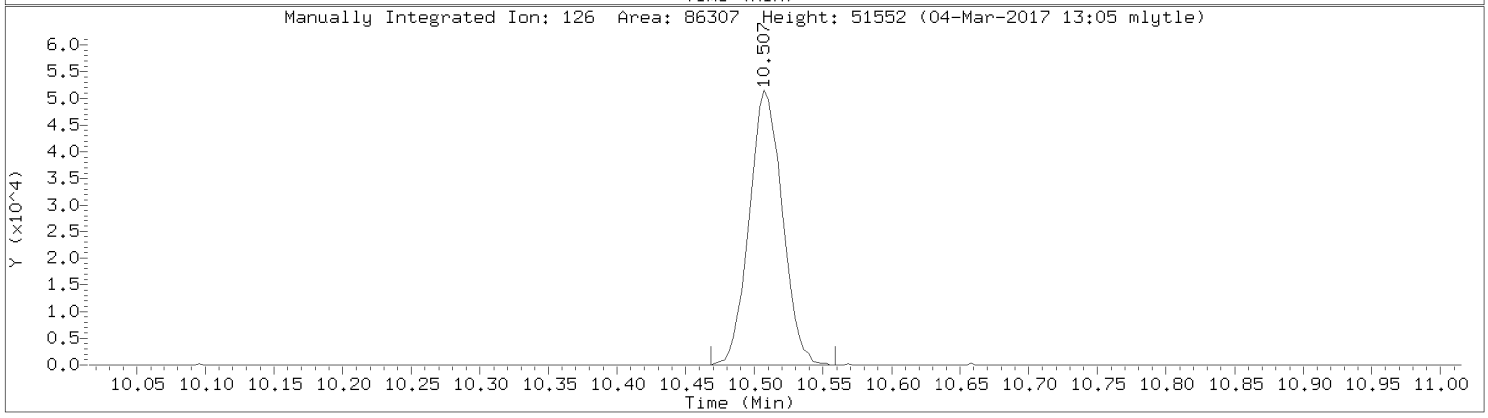
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5

Compound: Benzyl Chloride
CAS Number: 100-44-7



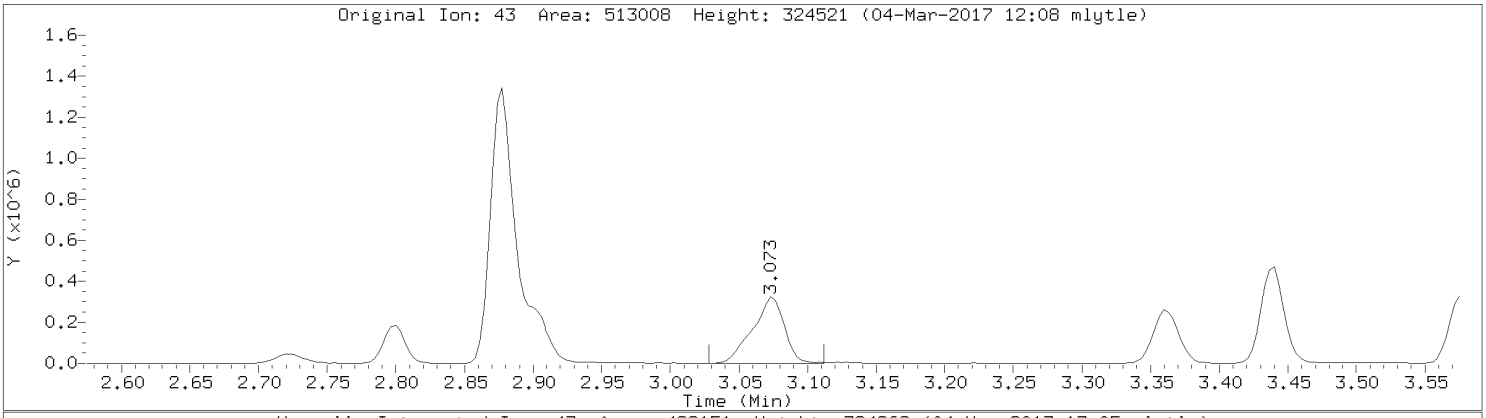


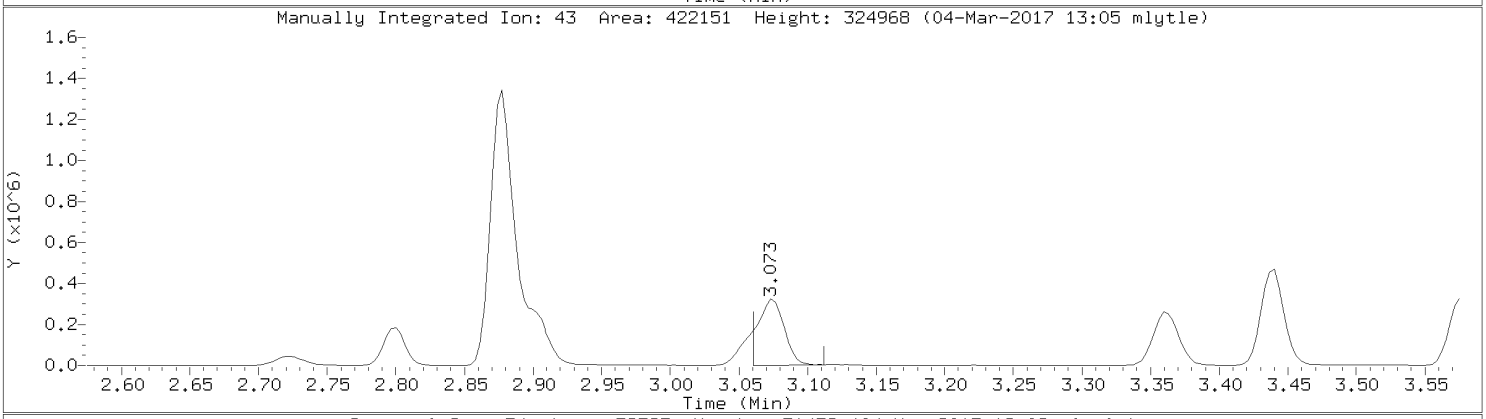


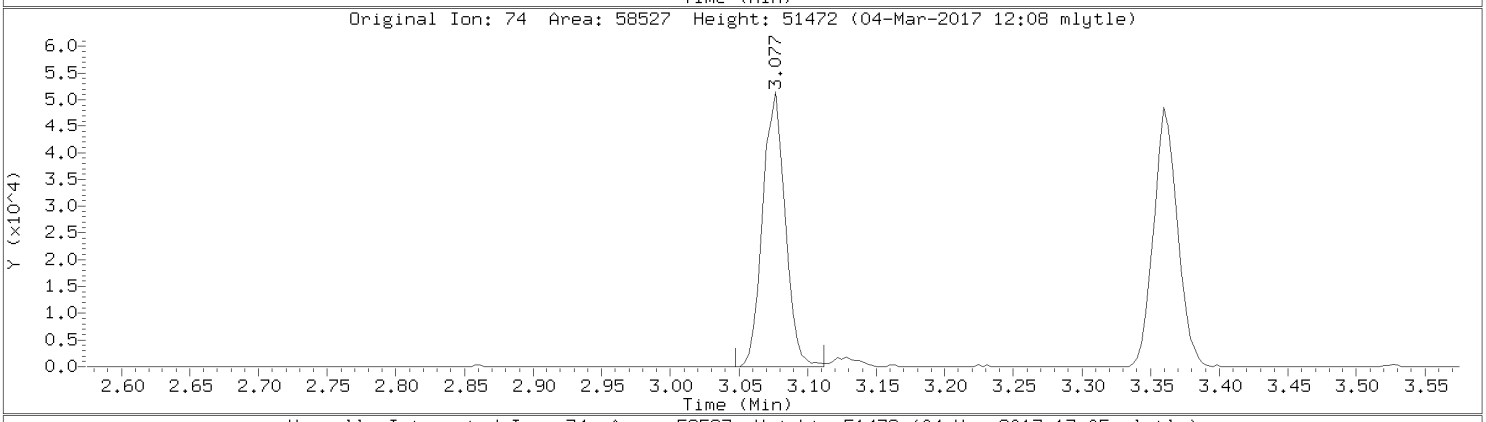


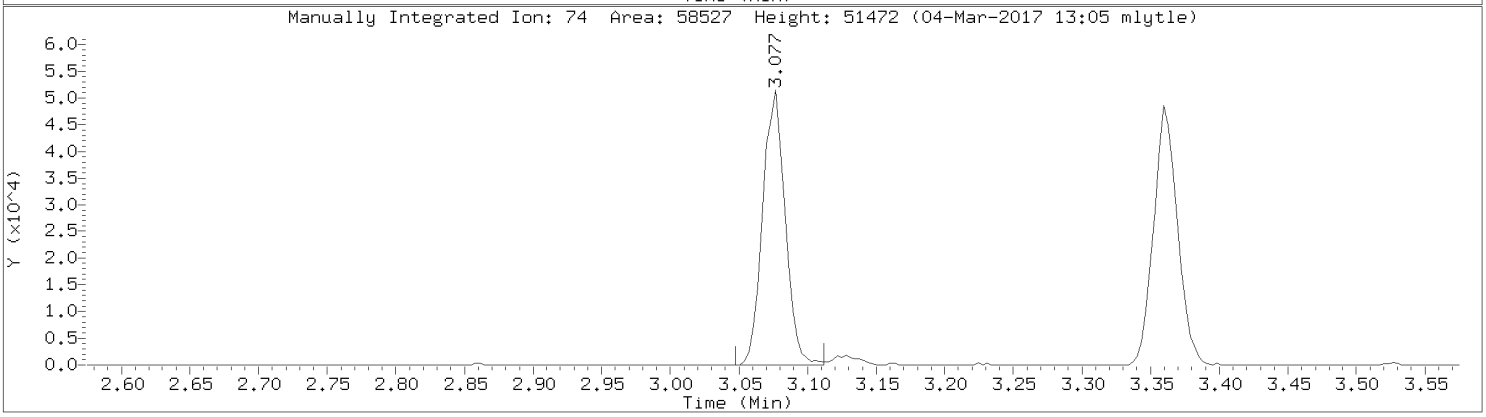
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5

Compound: Methyl Acetate
CAS Number: 79-20-9

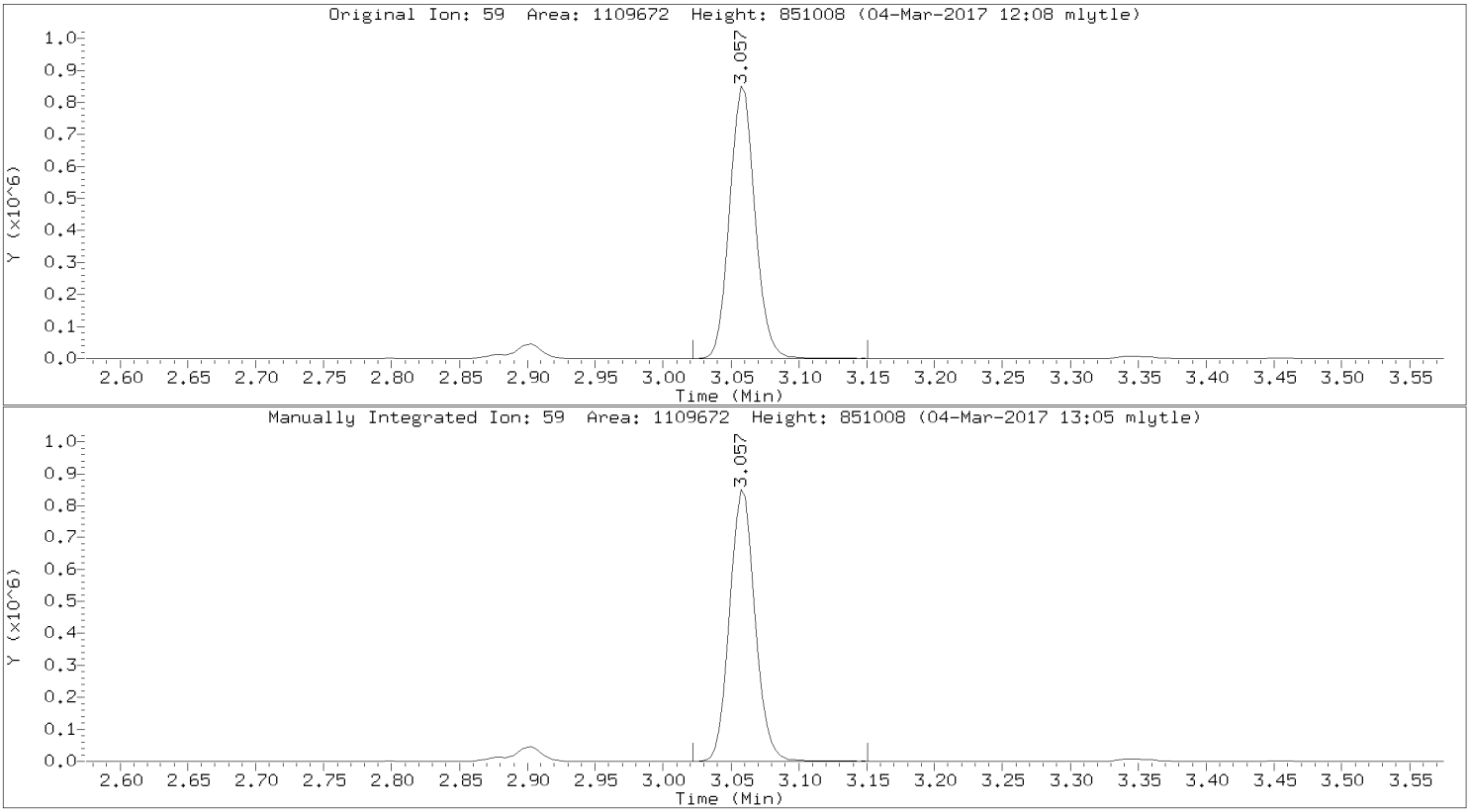








Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Lab Smp Id: CAL6
Inj Date : 04-MAR-2017 10:10
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:07 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 09:46 Cal File: 06308.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)	
1	Chloropentafluoroethane	85	2.317	2.317	(0.513)	69810	20.0000		(a)
2	1,1-Difluoroethane	65	2.365	2.365	(0.524)	225247	20.0000	18.2	
3	Chlorodifluoromethane	67	2.375	2.375	(0.526)	120663	20.0000	18.9	
4	Propylene	41	2.385	2.385	(0.528)	307959	20.0000	19.5	
5	Dichlorodifluoromethane	85	2.404	2.404	(0.533)	1184644	20.0000	18.1	
6	Chloromethane	50	2.471	2.471	(0.548)	478226	20.0000	17.8	
7	Dichlorotetrafluoroethane	85	2.468	2.468	(0.547)	1090035	20.0000	18.2	
8	Vinyl chloride	62	2.529	2.529	(0.560)	367624	20.0000	18.6	
9	1,3-Butadiene	54	2.558	2.558	(0.567)	273557	20.0000	18.9	
10	Bromomethane	94	2.664	2.664	(0.590)	380347	20.0000	17.7	
11	Chloroethane	64	2.700	2.700	(0.598)	134295	20.0000	17.4	
12	Ethanol	45	2.729	2.729	(0.605)	590384	100.000	104	
13	Vinyl Bromide	106	2.790	2.790	(0.618)	403248	20.0000	18.2	
14	Isopentane	43	2.803	2.803	(0.621)	357008	20.0000	16.6	
15	Freon 123	83	2.803	2.803	(0.621)	882064	20.0000	17.8	
16	Trichlorofluoromethane	101	2.864	2.864	(0.635)	1152452	20.0000	17.7	
17	Acrolein	56	2.854	2.854	(0.632)	307471	50.0000	57.3	
18	Acetone	43	2.880	2.880	(0.638)	2938980	100.000	77.6	
19	Isopropyl Alcohol	45	2.909	2.909	(0.645)	2851332	100.000	89.7	(M)
20	1,1-Dichloroethene	61	3.050	3.050	(0.676)	654258	20.0000	18.2	
21	Acrylonitrile	53	3.053	3.053	(0.677)	686921	50.0000	46.7	
22	Freon 113	101	3.082	3.082	(0.683)	856609	20.0000	17.6	
23	Tert Butyl Alcohol (TBA)	59	3.066	3.066	(0.679)	1985140	50.0000	46.7	

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.076	3.076	(0.682)	913264	20.0000	21.1(Q)
	25 Methylene chloride	49	3.124	3.124	(0.692)	2165090	100.000	81.9
	26 Allyl Chloride	76	3.134	3.134	(0.694)	343689	50.0000	55.1(Q)
	27 Carbon Disulfide	76	3.227	3.227	(0.715)	858025	20.0000	18.8
	28 trans-1,2-dichloroethene	96	3.349	3.349	(0.742)	357584	20.0000	18.5
	29 Methyl Tert Butyl Ether	73	3.365	3.365	(0.746)	2348627	50.0000	44.9
	30 Vinyl Acetate	43	3.442	3.442	(0.763)	1030844	20.0000	22.6
	31 1,1-Dichloroethane	63	3.459	3.459	(0.766)	686894	20.0000	18.1
$	32 Hexane-d14(S)	66	3.526	3.526	(0.781)	232992	10.0000	10.1
	33 Methyl Ethyl Ketone	72	3.581	3.581	(0.793)	134948	20.0000	18.9
	34 n-Hexane	57	3.610	3.610	(0.800)	508106	20.0000	18.0
	35 Di-isopropyl Ether	45	3.622	3.622	(0.803)	1253692	20.0000	17.8
	36 cis-1,2-Dichloroethene	96	3.729	3.729	(0.826)	400623	20.0000	19.2
	37 Ethyl Acetate	43	3.722	3.722	(0.825)	826617	20.0000	18.4
	38 Ethyl Tert-Butyl Ether	59	3.815	3.815	(0.845)	2936985	50.0000	44.7
	39 Chloroform	83	3.828	3.828	(0.848)	855716	20.0000	18.3
	40 Tetrahydrofuran	42	3.954	3.954	(0.876)	398205	20.0000	18.2
	41 1,1,1-Trichloroethane	97	4.166	4.166	(0.923)	1090276	20.0000	19.1
	42 1,2-Dichloroethane	62	4.176	4.176	(0.925)	725395	20.0000	18.9
	43 Benzene	78	4.375	4.375	(0.969)	1137799	20.0000	17.5
	44 Carbon tetrachloride	117	4.391	4.391	(0.973)	1249006	20.0000	20.0
	45 Cyclohexane	56	4.391	4.391	(0.973)	556579	20.0000	17.0
	46 Tert Amyl Methyl Ether	73	4.500	4.500	(0.997)	1150933	20.0000	20.3
*	47 1,4-Difluorobenzene	114	4.513	4.513	(1.000)	841266	10.0000	
	48 2,2,4-Trimethylpentane	57	4.645	4.645	(1.029)	4237692	50.0000	40.5
	49 Heptane	43	4.761	4.761	(1.055)	718163	20.0000	16.8
	50 1,2-Dichloropropane	63	4.825	4.825	(1.069)	443432	20.0000	17.7
	51 Trichloroethene	130	4.844	4.844	(1.073)	676467	20.0000	17.0
	52 Methyl methacrylate	69	4.909	4.909	(1.088)	355851	20.0000	18.3
	53 Bromodichloromethane	83	4.934	4.934	(1.093)	1034678	20.0000	18.9
	54 1,4-Dioxane	88	4.918	4.918	(1.090)	204827	20.0000	18.9
	55 Methylcyclohexane	98	5.240	5.240	(1.161)	252401	20.0000	17.9
	56 Methyl Isobutyl Ketone	43	5.349	5.349	(1.185)	2440923	50.0000	42.8
	57 cis-1,3-Dichloropropene	75	5.397	5.397	(1.196)	706823	20.0000	19.3
	58 trans-1,3-Dichloropropene	75	5.774	5.774	(1.279)	673726	20.0000	20.3
$	59 Toluene-d8 (S)	98	5.841	5.841	(1.294)	703888	10.0000	9.97
	60 Toluene	91	5.912	5.912	(1.310)	1359786	20.0000	17.1
	61 1,1,2-Trichloroethane	97	5.915	5.915	(1.311)	522323	20.0000	17.4
	62 Methyl Butyl Ketone	43	6.134	6.134	(0.838)	2224742	50.0000	41.8
	63 n-Octane	43	6.330	6.330	(0.865)	920083	20.0000	16.6
	64 Dibromochloromethane	129	6.404	6.404	(0.875)	1296505	20.0000	20.1
	65 1,2-Dibromoethane	107	6.619	6.619	(0.905)	925757	20.0000	18.3
	66 Tetrachloroethene	166	6.690	6.690	(0.914)	918701	20.0000	16.7
*	67 Chlorobenzene - d5	117	7.317	7.317	(1.000)	554872	10.0000	
	68 Chlorobenzene	112	7.359	7.359	(1.006)	1178302	20.0000	17.6
	69 Ethyl Benzene	91	7.600	7.600	(1.039)	1777343	20.0000	17.2
	70 m&p-Xylene	91	7.745	7.745	(1.058)	2708918	40.0000	33.3
	71 Bromoform	173	8.111	8.111	(1.109)	1227785	20.0000	23.5
	72 n-Nonane	43	8.137	8.137	(1.112)	894668	20.0000	18.0
	73 Styrene	104	8.153	8.153	(1.114)	986320	20.0000	18.6
	74 o-Xylene	91	8.217	8.217	(1.123)	1347047	20.0000	16.6
	75 1,1,2,2-Tetrachloroethane	83	8.471	8.471	(1.158)	853032	20.0000	17.4
	76 Isopropylbenzene	105	8.786	8.786	(1.201)	1934550	20.0000	17.3
	77 N-Propylbenzene	91	9.346	9.346	(1.277)	2035149	20.0000	17.9

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.516	9.516	(1.301)	1743520	20.0000	17.7
79	1,3,5-Trimethylbenzene	105	9.606	9.606	(1.313)	1473595	20.0000	17.5
80	n-Decane	57	10.005	10.005	(2.217)	754634	20.0000	20.2
81	Tert-Butyl Benzene	119	10.101	10.101	(1.381)	1547061	20.0000	17.2
82	1,2,4-Trimethylbenzene	105	10.117	10.117	(1.383)	1367519	20.0000	19.0
83	1,3-Dichlorobenzene	146	10.420	10.420	(1.424)	928484	20.0000	19.0
84	Sec- Butylbenzene	105	10.445	10.445	(1.428)	1926982	20.0000	17.7
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.494	10.494	(1.434)	265790	10.0000	11.7
86	Benzyl Chloride	91	10.513	10.513	(1.437)	869050	20.0000	23.6(M)
87	1,4-Dichlorobenzene	146	10.535	10.535	(1.440)	868328	20.0000	19.4
88	p-Isopropyltoluene	119	10.667	10.667	(1.458)	1640545	20.0000	18.3
89	1,2,3-Trimethylbenzene	105	10.709	10.709	(1.464)	1267907	20.0000	17.2
90	1,2-Dichlorobenzene	146	11.002	11.002	(1.504)	813285	20.0000	18.8
91	N-Butylbenzene	91	11.256	11.256	(1.538)	1135579	20.0000	18.9
92	1,2-Dibromo-3-Chloropropane	157	11.776	11.776	(1.609)	222408	20.0000	21.6
93	1,2,4-Trichlorobenzene	180	13.043	13.043	(1.783)	103855	20.0000	20.4
94	Naphthalene	128	13.162	13.162	(1.799)	193658	20.0000	21.2
95	Hexachlorobutadiene	225	13.426	13.426	(1.835)	187769	20.0000	19.4

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06309.D
Lab Smp Id: CAL6
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

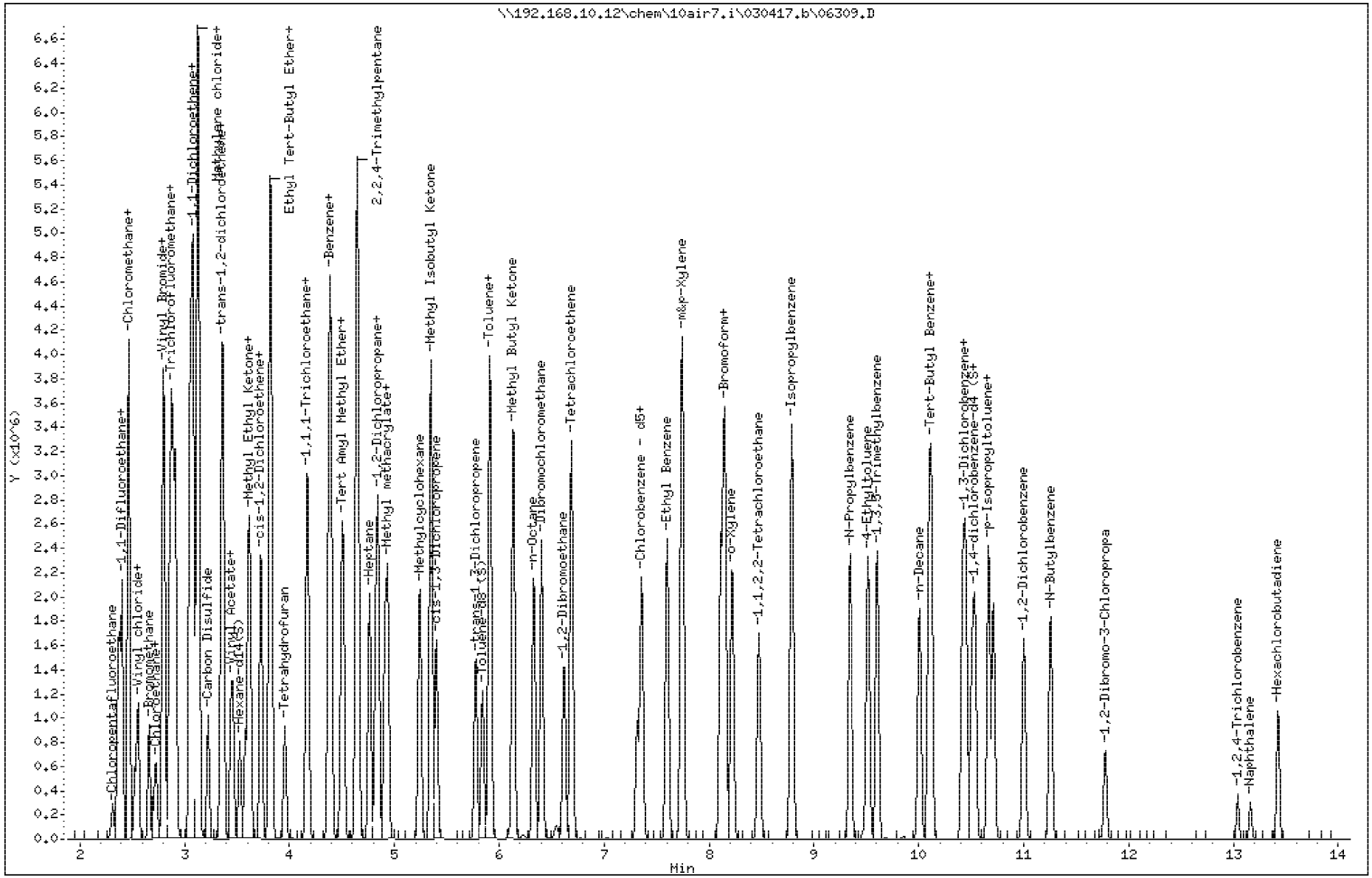
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	841266	0.63
67 Chlorobenzene - d	539522	323713	755331	554872	2.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.51	0.14
67 Chlorobenzene - d	7.31	6.98	7.64	7.32	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

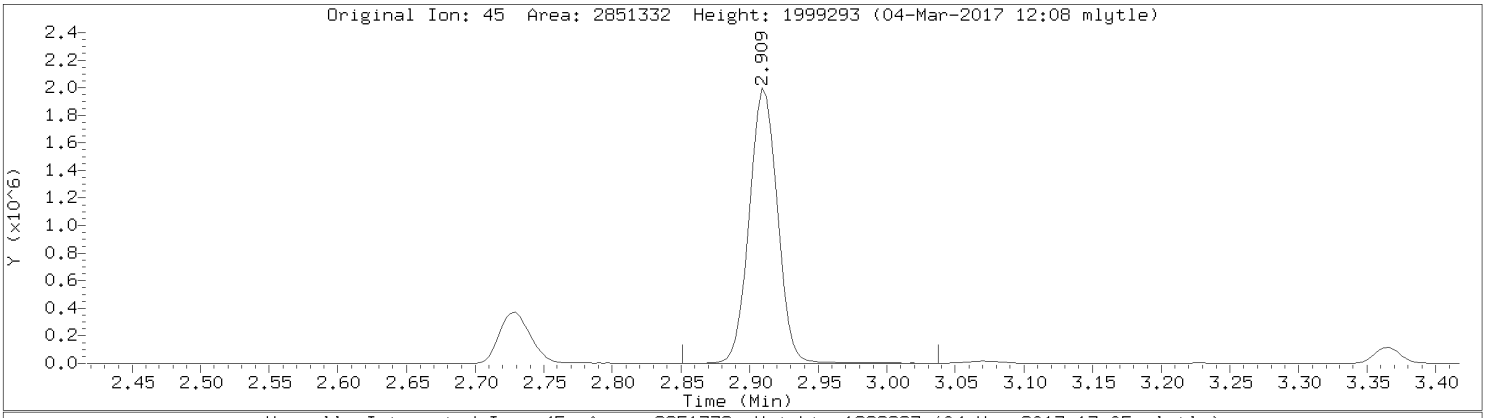
Data File: \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Date : 04-MAR-2017 10:10
Client ID:
Sample Info:

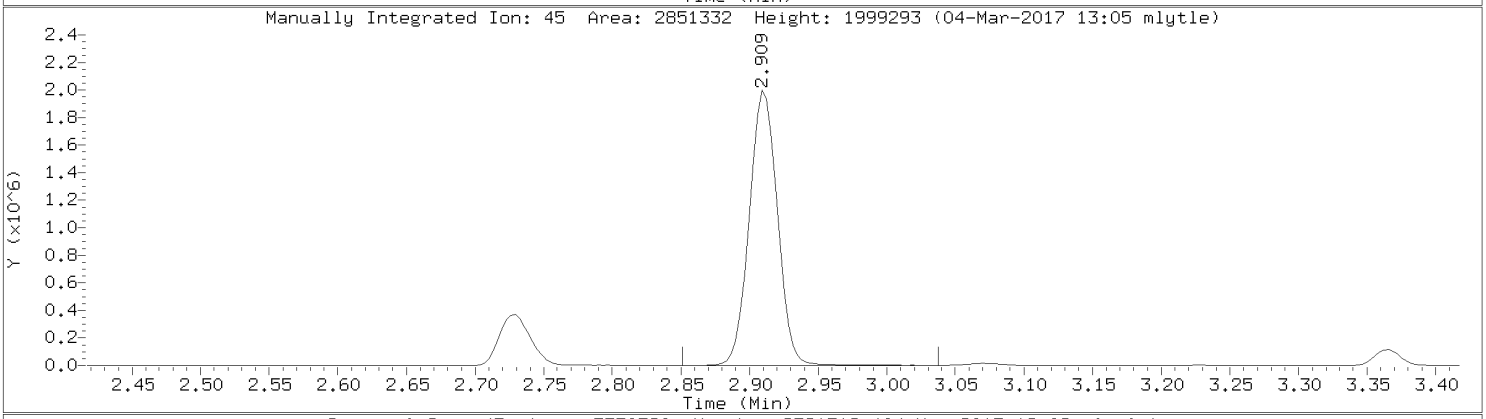
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

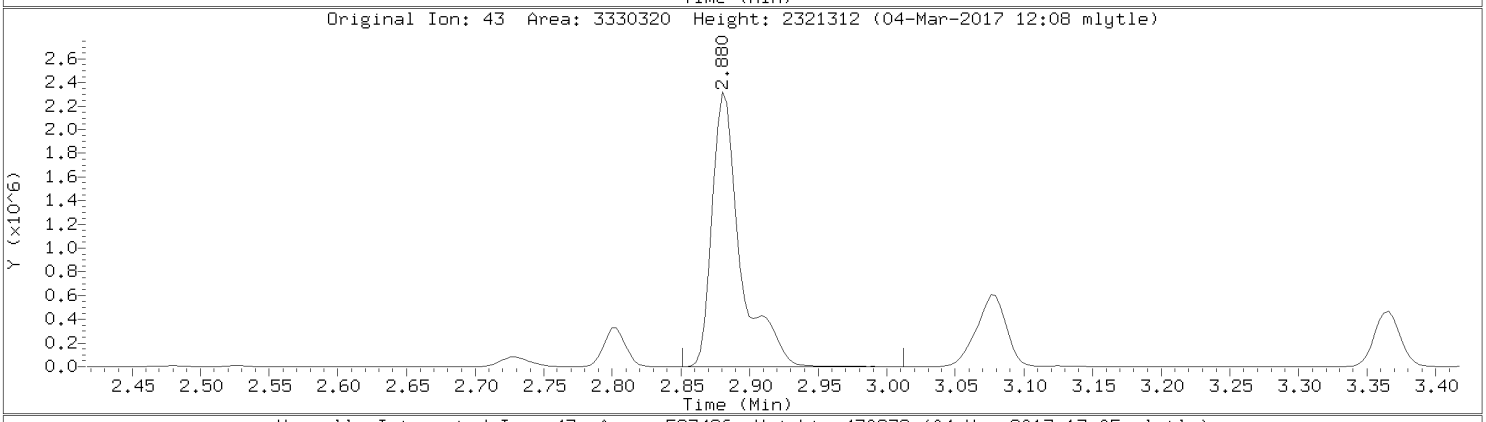


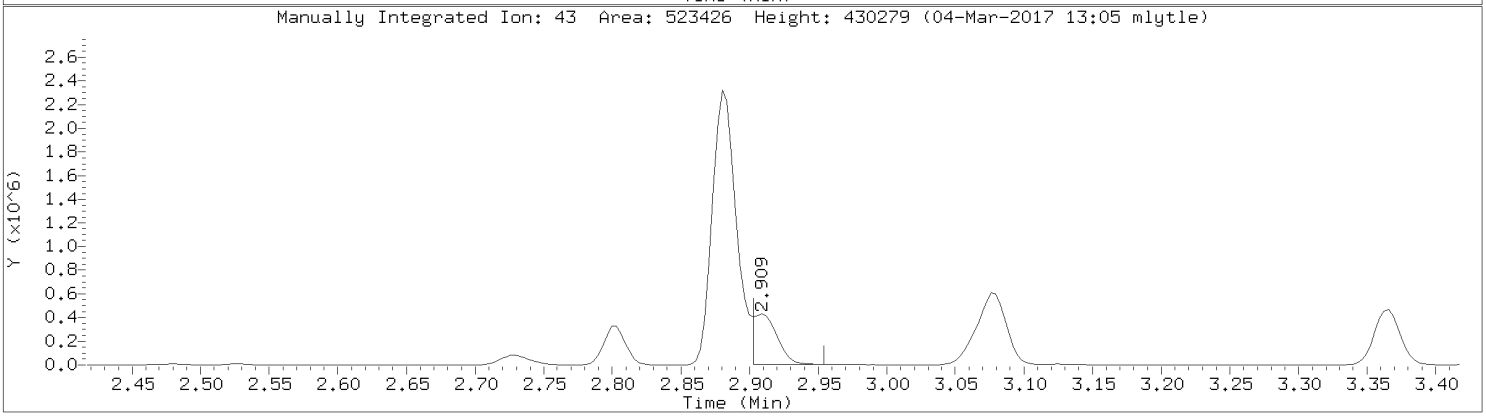
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06309.D
Injection Date: 04-MAR-2017 10:10
Instrument: 10air7.i
Lab Sample ID: CAL6

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



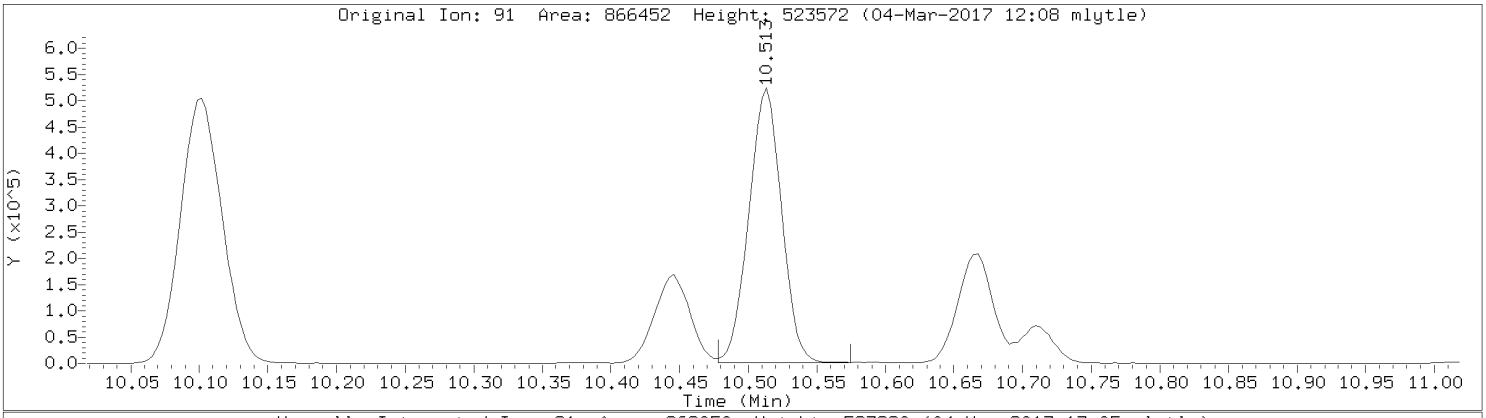


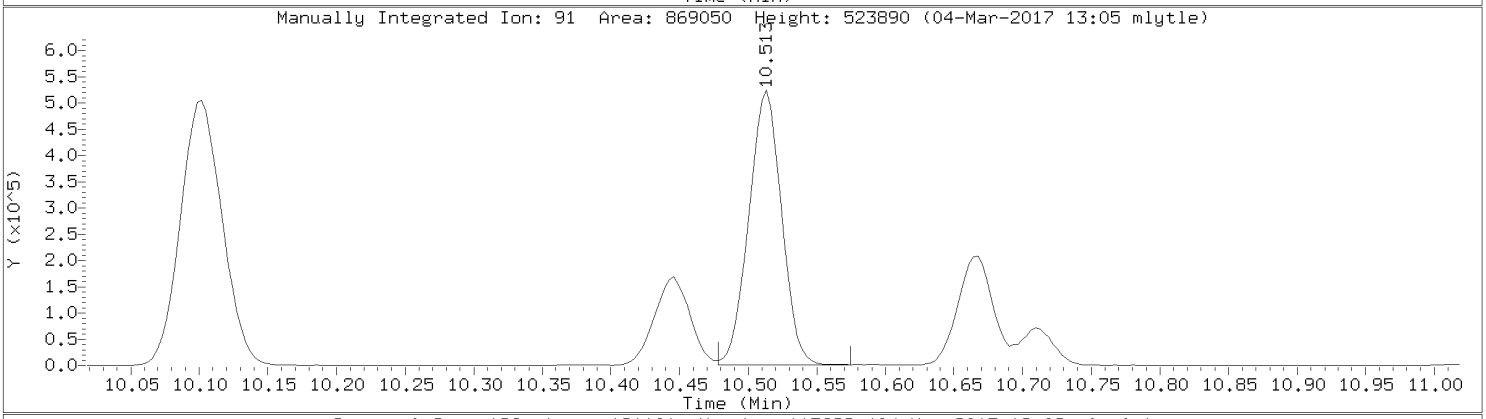


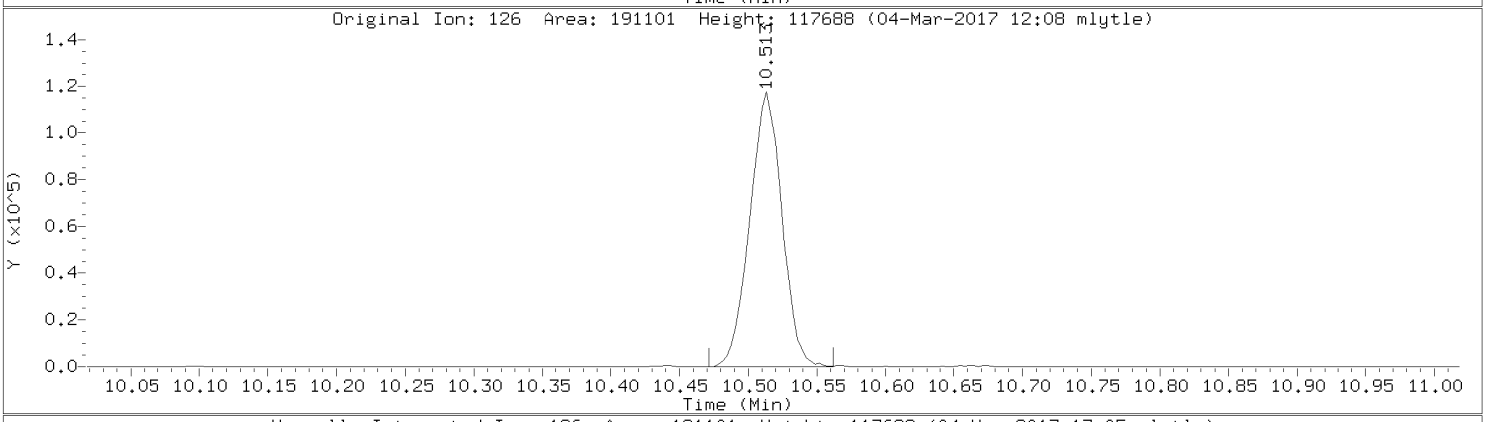


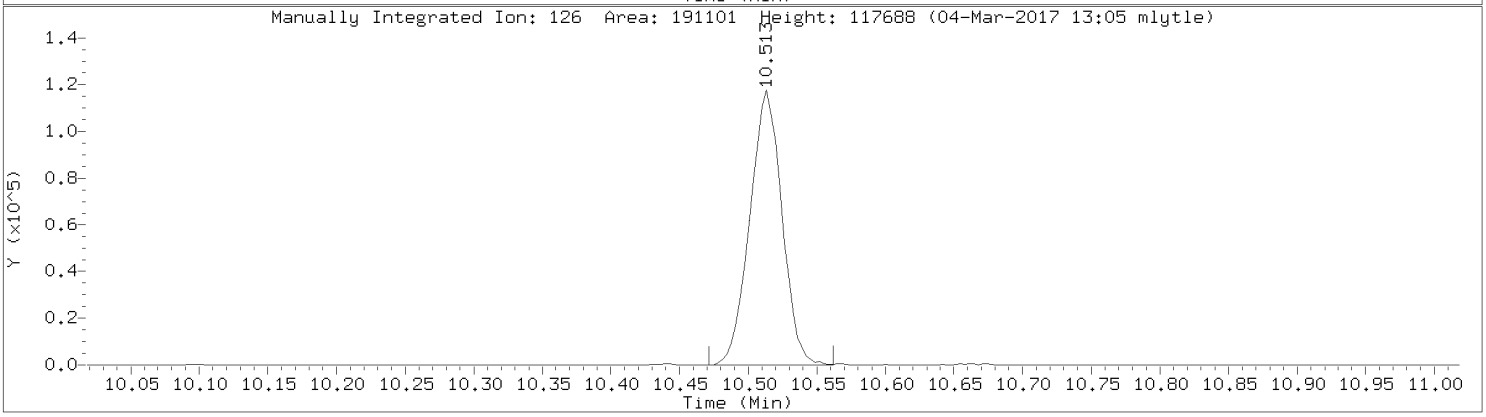
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06309.D
Injection Date: 04-MAR-2017 10:10
Instrument: 10air7.i
Lab Sample ID: CAL6

Compound: Benzyl Chloride
CAS Number: 100-44-7









Data File: \\192.168.10.12\chem\10air7.i\030417.b\06310.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06310.D
Lab Smp Id: CAL7
Inj Date : 04-MAR-2017 10:36
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:08 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 10:10 Cal File: 06309.D
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.314	2.314	(0.513)	49532	30.0000	(a)
2	1,1-Difluoroethane	65	2.362	2.362	(0.523)	321849	30.0000	26.2
3	Chlorodifluoromethane	67	2.372	2.372	(0.526)	174979	30.0000	27.7(Q)
4	Propylene	41	2.378	2.378	(0.527)	423114	30.0000	30.2(A)
5	Dichlorodifluoromethane	85	2.401	2.401	(0.532)	1624450	30.0000	25.0
6	Chloromethane	50	2.468	2.468	(0.547)	658620	30.0000	24.8
7	Dichlorotetrafluoroethane	85	2.465	2.465	(0.546)	1524056	30.0000	25.7
8	Vinyl chloride	62	2.526	2.526	(0.560)	534678	30.0000	27.4
9	1,3-Butadiene	54	2.555	2.555	(0.566)	390079	30.0000	27.3
10	Bromomethane	94	2.661	2.661	(0.590)	588309	30.0000	27.7
11	Chloroethane	64	2.697	2.697	(0.598)	212358	30.0000	27.8
12	Ethanol	45	2.729	2.729	(0.605)	839098	150.000	149
13	Vinyl Bromide	106	2.790	2.790	(0.618)	616355	30.0000	28.0
14	Isopentane	43	2.799	2.799	(0.620)	541830	30.0000	25.4
15	Freon 123	83	2.799	2.799	(0.620)	1348407	30.0000	27.5
16	Trichlorofluoromethane	101	2.861	2.861	(0.634)	1685764	30.0000	26.2
17	Acrolein	56	2.854	2.854	(0.632)	461413	75.0000	86.9(A)
18	Acetone	43	2.880	2.880	(0.638)	4119578	150.000	110
19	Isopropyl Alcohol	45	2.915	2.915	(0.646)	4128831	150.000	131
20	1,1-Dichloroethene	61	3.050	3.050	(0.676)	968720	30.0000	27.2
21	Acrylonitrile	53	3.053	3.053	(0.677)	1008717	75.0000	69.3
22	Freon 113	101	3.079	3.079	(0.682)	1261829	30.0000	26.2
23	Tert Butyl Alcohol (TBA)	59	3.073	3.073	(0.681)	2832160	75.0000	67.2

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06310.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.076	3.076	(0.682)	1325107	30.0000	31.0(A)
	25 Methylene chloride	49	3.124	3.124	(0.692)	3064736	150.000	117
	26 Allyl Chloride	76	3.134	3.134	(0.694)	509174	75.0000	82.4(A)
	27 Carbon Disulfide	76	3.224	3.224	(0.714)	1249299	30.0000	27.6
	28 trans-1,2-dichloroethene	96	3.349	3.349	(0.742)	525105	30.0000	27.4
	29 Methyl Tert Butyl Ether	73	3.365	3.365	(0.746)	3353779	75.0000	64.8
	30 Vinyl Acetate	43	3.442	3.442	(0.763)	1506638	30.0000	33.4(A)
	31 1,1-Dichloroethane	63	3.459	3.459	(0.766)	1006775	30.0000	26.8
$	32 Hexane-d14(S)	66	3.526	3.526	(0.781)	237022	10.0000	10.4
	33 Methyl Ethyl Ketone	72	3.581	3.581	(0.793)	211064	30.0000	29.8
	34 n-Hexane	57	3.606	3.606	(0.799)	733455	30.0000	26.2(M)
	35 Di-isopropyl Ether	45	3.623	3.623	(0.803)	1809200	30.0000	25.9
	36 cis-1,2-Dichloroethene	96	3.729	3.729	(0.826)	583713	30.0000	28.2
	37 Ethyl Acetate	43	3.725	3.725	(0.825)	1200080	30.0000	27.0
	38 Ethyl Tert-Butyl Ether	59	3.819	3.819	(0.846)	4084111	75.0000	62.7
	39 Chloroform	83	3.828	3.828	(0.848)	1207790	30.0000	26.1
	40 Tetrahydrofuran	42	3.957	3.957	(0.877)	586682	30.0000	27.1
	41 1,1,1-Trichloroethane	97	4.166	4.166	(0.923)	1411398	30.0000	25.0
	42 1,2-Dichloroethane	62	4.179	4.179	(0.926)	944843	30.0000	24.9
	43 Benzene	78	4.375	4.375	(0.969)	1596105	30.0000	24.7
	44 Carbon tetrachloride	117	4.391	4.391	(0.973)	1729417	30.0000	27.9
	45 Cyclohexane	56	4.391	4.391	(0.973)	783920	30.0000	24.2
	46 Tert Amyl Methyl Ether	73	4.500	4.500	(0.997)	1645384	30.0000	29.5
*	47 1,4-Difluorobenzene	114	4.513	4.513	(1.000)	833163	10.0000	
	48 2,2,4-Trimethylpentane	57	4.648	4.648	(1.030)	5833145	75.0000	56.3
	49 Heptane	43	4.761	4.761	(1.055)	1027185	30.0000	24.3
	50 1,2-Dichloropropane	63	4.828	4.828	(1.070)	637237	30.0000	25.6
	51 Trichloroethene	130	4.848	4.848	(1.074)	974659	30.0000	24.8
	52 Methyl methacrylate	69	4.912	4.912	(1.088)	518234	30.0000	26.9
	53 Bromodichloromethane	83	4.934	4.934	(1.093)	1487588	30.0000	27.5
	54 1,4-Dioxane	88	4.922	4.922	(1.090)	264722	30.0000	24.7
	55 Methylcyclohexane	98	5.240	5.240	(1.161)	365277	30.0000	26.1
	56 Methyl Isobutyl Ketone	43	5.352	5.352	(1.186)	3393151	75.0000	60.1
	57 cis-1,3-Dichloropropene	75	5.401	5.401	(1.197)	1027175	30.0000	28.3
	58 trans-1,3-Dichloropropene	75	5.777	5.777	(1.280)	991703	30.0000	30.2(A)
$	59 Toluene-d8 (S)	98	5.844	5.844	(1.295)	706820	10.0000	10.1
	60 Toluene	91	5.915	5.915	(1.311)	1991675	30.0000	25.3
	61 1,1,2-Trichloroethane	97	5.918	5.918	(1.311)	761072	30.0000	25.7
	62 Methyl Butyl Ketone	43	6.140	6.140	(0.839)	3153323	75.0000	58.7
	63 n-Octane	43	6.330	6.330	(0.865)	1326672	30.0000	23.8
	64 Dibromochloromethane	129	6.407	6.407	(0.875)	1874610	30.0000	28.8
	65 1,2-Dibromoethane	107	6.619	6.619	(0.904)	1344400	30.0000	26.4
	66 Tetrachloroethene	166	6.693	6.693	(0.914)	1310952	30.0000	23.6
*	67 Chlorobenzene - d5	117	7.320	7.320	(1.000)	559928	10.0000	
	68 Chlorobenzene	112	7.359	7.359	(1.005)	1715280	30.0000	25.4
	69 Ethyl Benzene	91	7.603	7.603	(1.039)	2550860	30.0000	24.4
	70 m&p-Xylene	91	7.748	7.748	(1.058)	3895287	60.0000	47.5
	71 Bromoform	173	8.118	8.118	(1.109)	1763688	30.0000	33.4(A)
	72 n-Nonane	43	8.140	8.140	(1.112)	1260357	30.0000	25.1
	73 Styrene	104	8.156	8.156	(1.114)	1440917	30.0000	27.0
	74 o-Xylene	91	8.220	8.220	(1.123)	1982246	30.0000	24.2
	75 1,1,2,2-Tetrachloroethane	83	8.478	8.478	(1.158)	1263624	30.0000	25.5
	76 Isopropylbenzene	105	8.786	8.786	(1.200)	2779625	30.0000	24.7
	77 N-Propylbenzene	91	9.349	9.349	(1.277)	2975782	30.0000	25.9

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06310.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.519	9.519	(1.300)	2565032	30.0000	25.7
79	1,3,5-Trimethylbenzene	105	9.609	9.609	(1.313)	2128403	30.0000	25.0
80	n-Decane	57	10.011	10.011	(2.218)	1118725	30.0000	30.2(A)
81	Tert-Butyl Benzene	119	10.105	10.105	(1.380)	2227903	30.0000	24.5
82	1,2,4-Trimethylbenzene	105	10.124	10.124	(1.383)	1982199	30.0000	27.2
83	1,3-Dichlorobenzene	146	10.423	10.423	(1.424)	1363874	30.0000	27.6
84	Sec- Butylbenzene	105	10.449	10.449	(1.427)	2828381	30.0000	25.7
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.497	10.497	(1.434)	272169	10.0000	11.9
86	Benzyl Chloride	91	10.516	10.516	(1.437)	1331897	30.0000	35.9(A)
87	1,4-Dichlorobenzene	146	10.539	10.539	(1.440)	1278563	30.0000	28.3
88	p-Isopropyltoluene	119	10.671	10.671	(1.458)	2427583	30.0000	26.9
89	1,2,3-Trimethylbenzene	105	10.716	10.716	(1.464)	1861705	30.0000	25.0(M)
90	1,2-Dichlorobenzene	146	11.002	11.002	(1.503)	1193065	30.0000	27.4
91	N-Butylbenzene	91	11.259	11.259	(1.538)	1717343	30.0000	28.3
92	1,2-Dibromo-3-Chloropropane	157	11.780	11.780	(1.609)	332896	30.0000	32.1(A)
93	1,2,4-Trichlorobenzene	180	13.040	13.040	(1.781)	154120	30.0000	30.0
94	Naphthalene	128	13.162	13.162	(1.798)	268656	30.0000	29.2
95	Hexachlorobutadiene	225	13.426	13.426	(1.834)	271135	30.0000	30.2(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06310.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06310.D
Lab Smp Id: CAL7
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	833163	-0.34
67 Chlorobenzene - d	539522	323713	755331	559928	3.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.51	0.14
67 Chlorobenzene - d	7.31	6.98	7.64	7.32	0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06310.D

Date : 04-MAR-2017 10:36

Client ID:

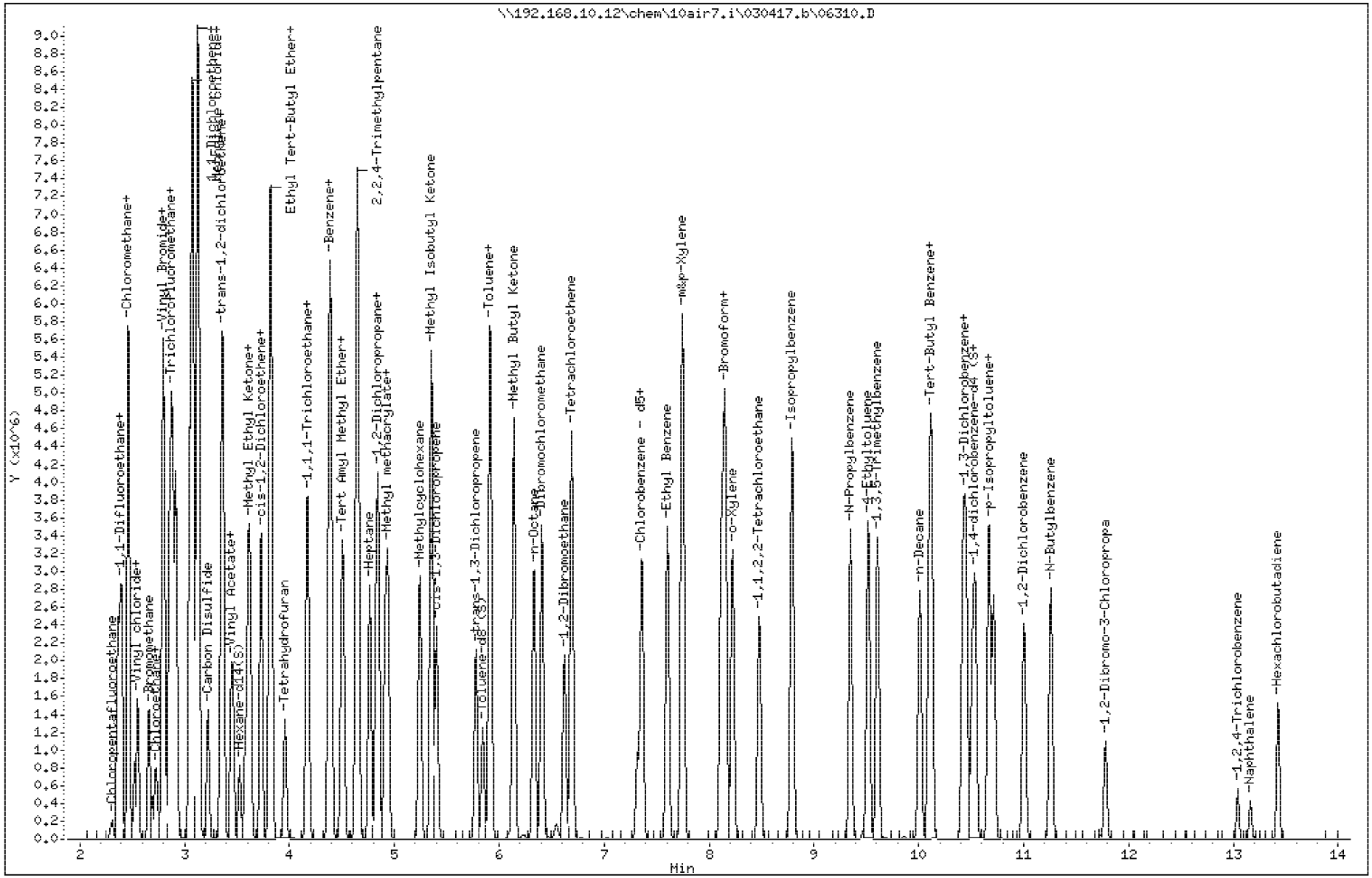
Instrument: 10air7.i

Sample Info:

Operator: MJL

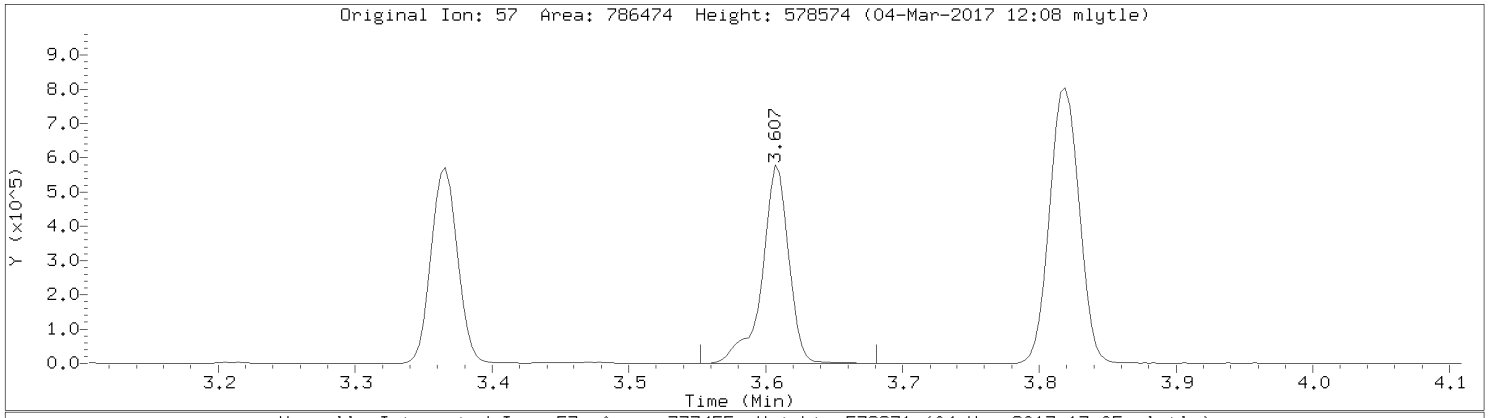
Column phase: J&W DB-5

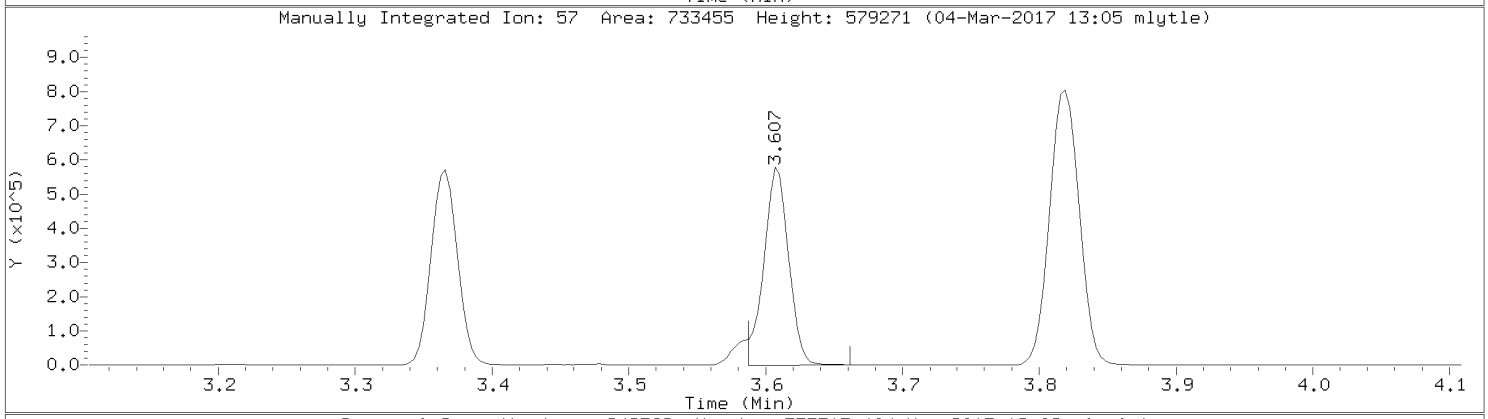
Column diameter: 0.32

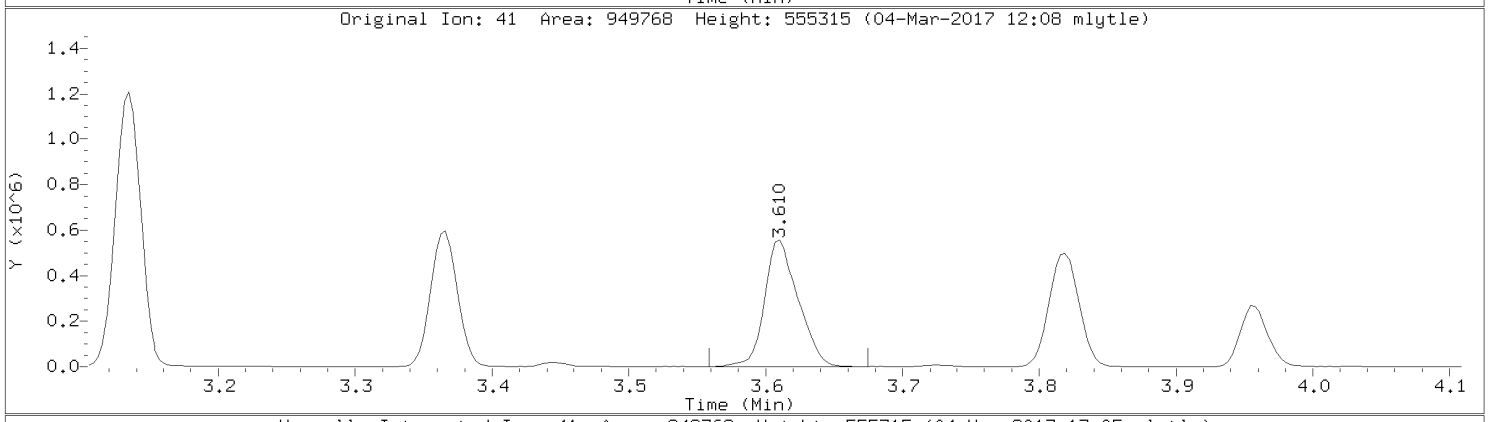


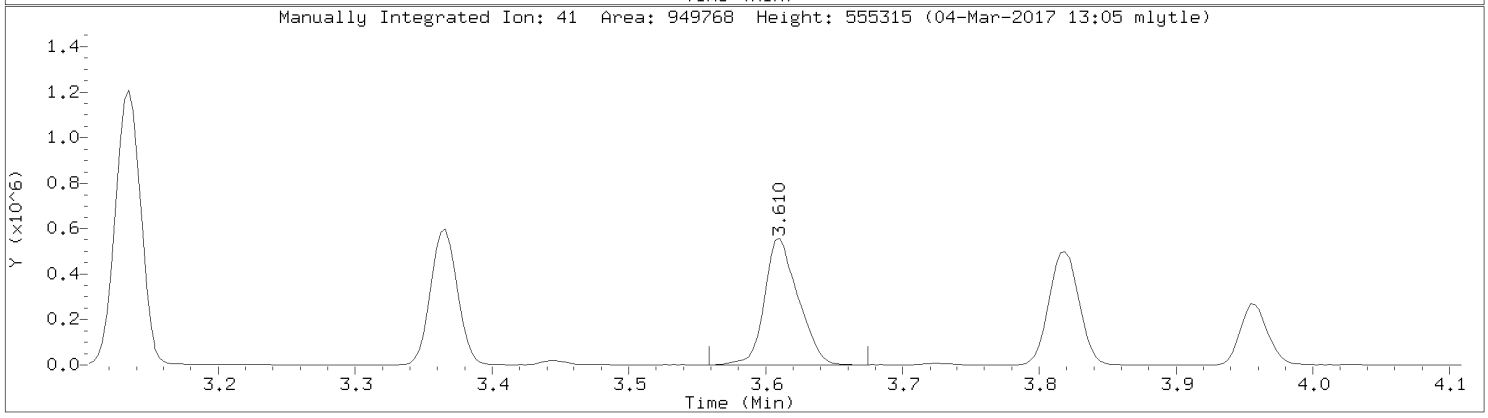
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06310.D
Injection Date: 04-MAR-2017 10:36
Instrument: 10air7.i
Lab Sample ID: CAL7

Compound: n-Hexane
CAS Number: 110-54-3

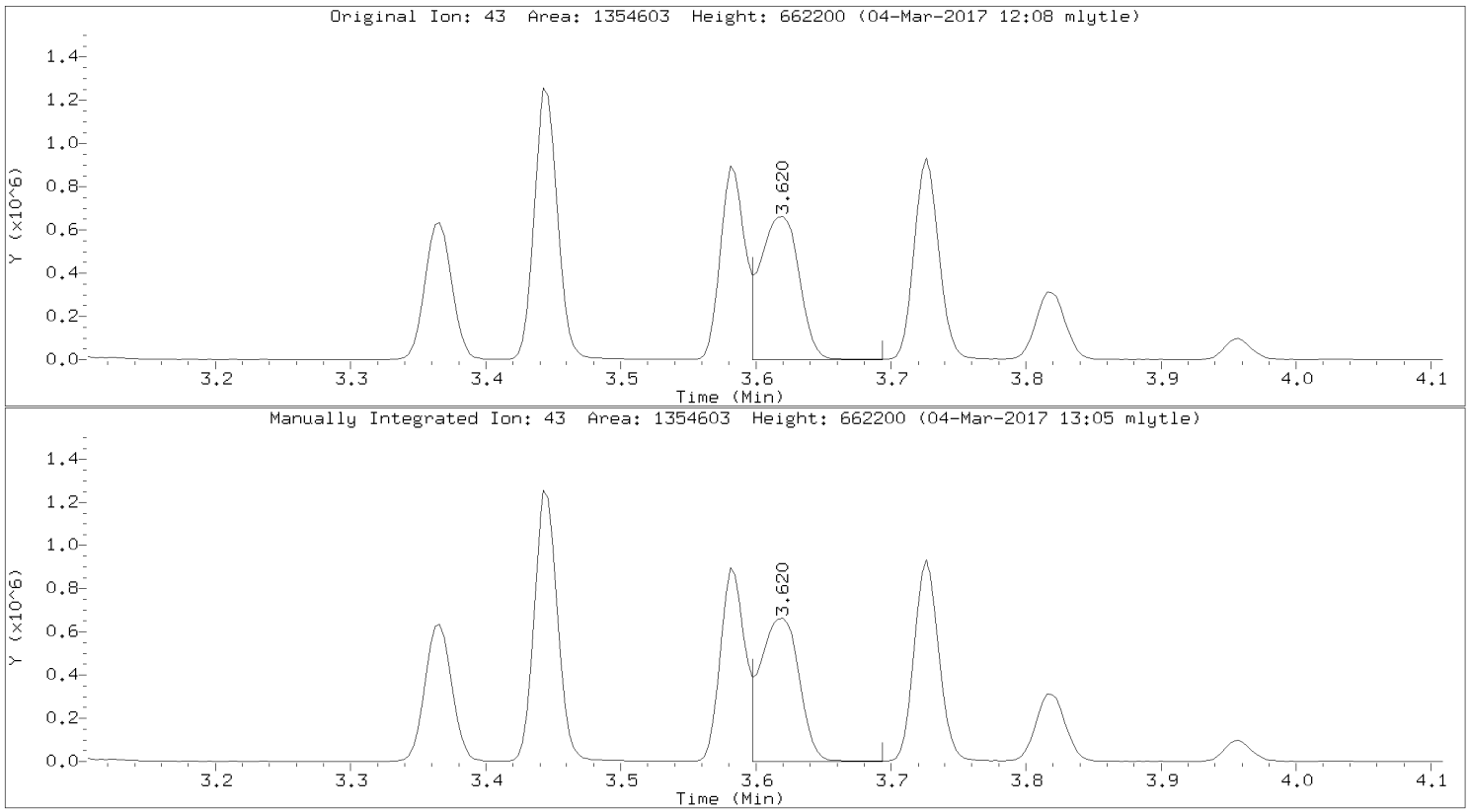






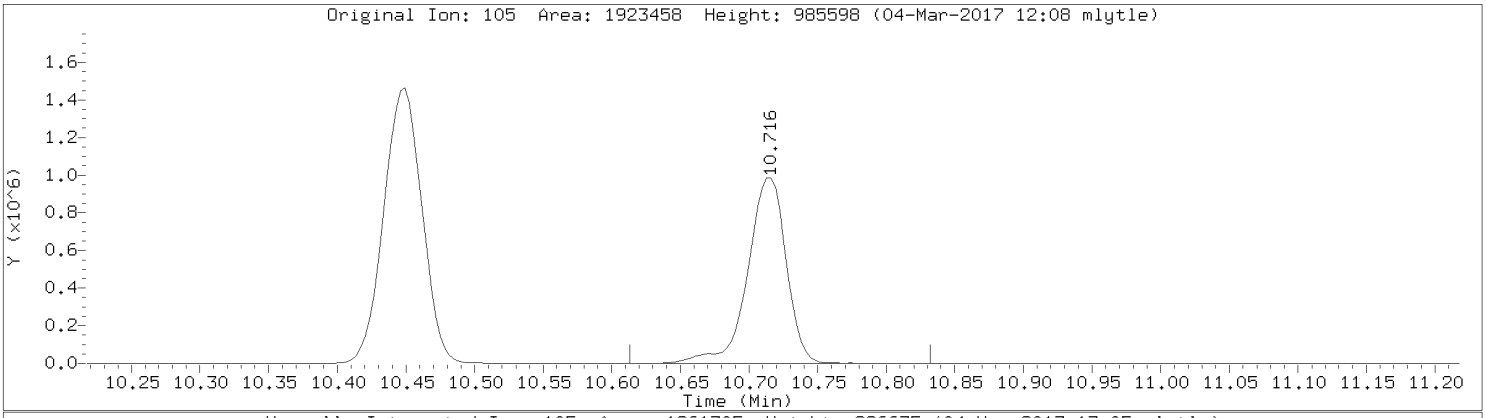


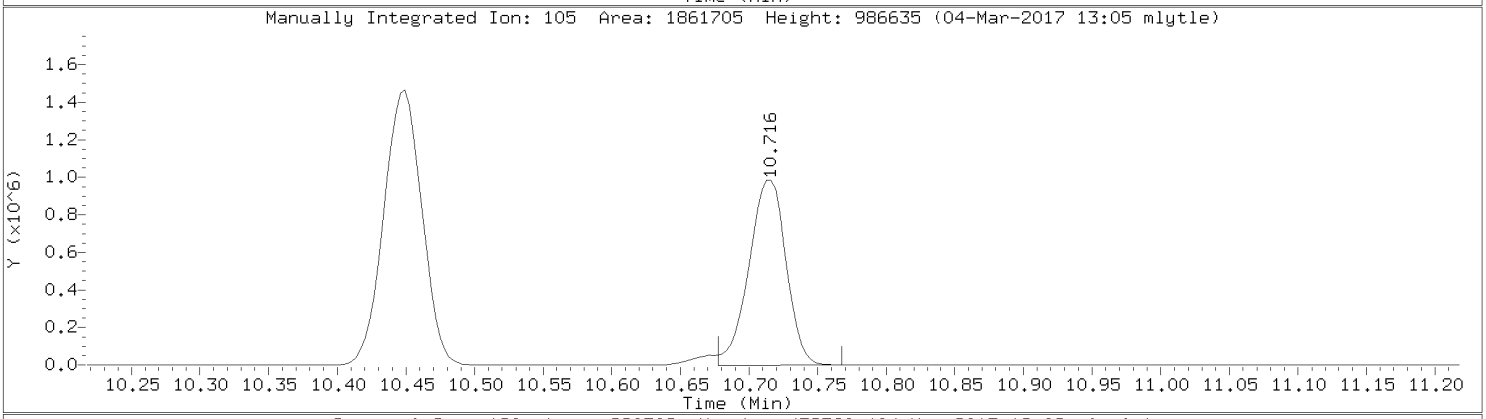
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06310.D
Injection Date: 04-MAR-2017 10:36
Instrument: 10air7.i
Lab Sample ID: CAL7

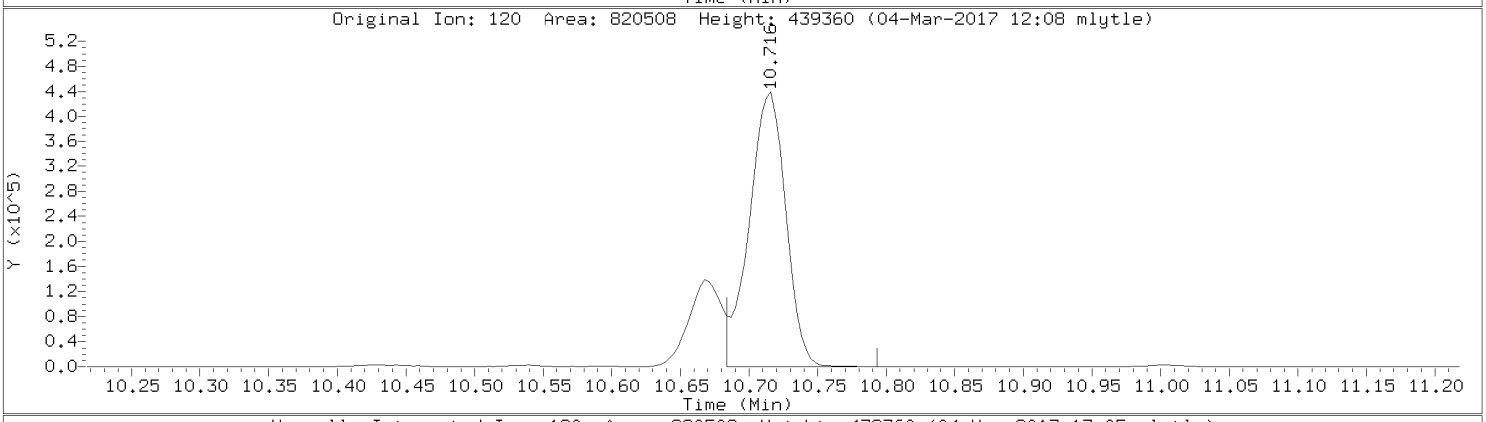


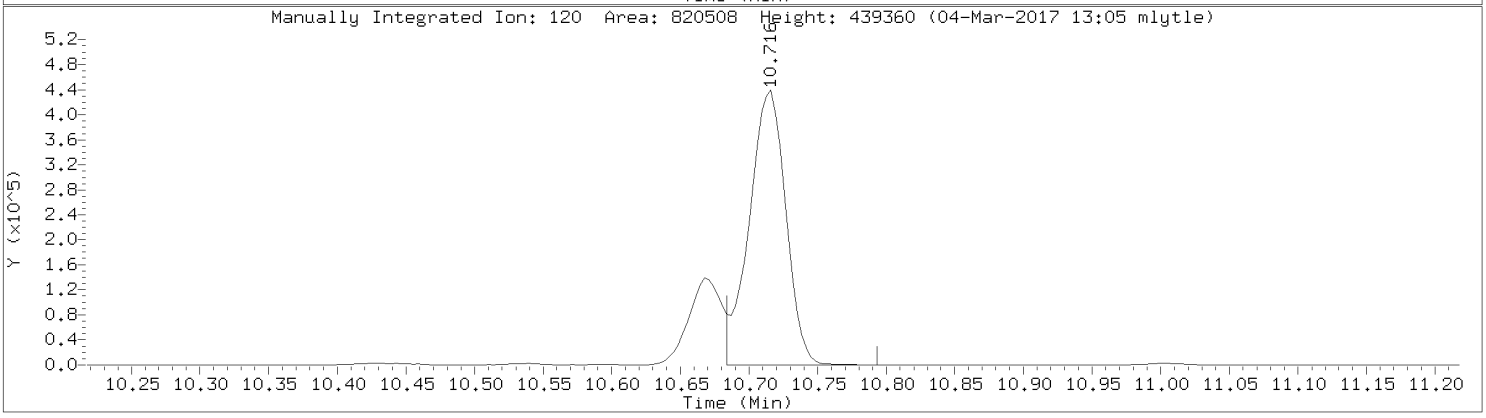
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06310.D
Injection Date: 04-MAR-2017 10:36
Instrument: 10air7.i
Lab Sample ID: CAL7

Compound: 1,2,3-Trimethylbenzene
CAS Number: 526-73-8









Data File: \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Lab Smp Id: ICV
Inj Date : 04-MAR-2017 11:23
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:08 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.356	2.362	(0.523)	2069	0.17280	0.173(Q)	
3	Chlorodifluoromethane	67	2.365	2.372	(0.525)	67497	10.9326	10.9(Q)	
4	Propylene	41	2.372	2.378	(0.527)	159711	9.23030	9.23	
5	Dichlorodifluoromethane	85	2.391	2.401	(0.531)	656241	10.3620	10.4	
6	Chloromethane	50	2.459	2.468	(0.546)	253188	9.74563	9.75	
7	Dichlorotetrafluoroethane	85	2.459	2.465	(0.546)	590674	10.1814	10.2	
8	Vinyl chloride	62	2.520	2.526	(0.560)	195719	10.2660	10.3	
9	1,3-Butadiene	54	2.545	2.555	(0.565)	140472	10.0518	10.1	
10	Bromomethane	94	2.652	2.661	(0.589)	209504	10.1023	10.1	
11	Chloroethane	64	2.687	2.697	(0.597)	78817	10.5805	10.6	
12	Ethanol	45	2.706	2.729	(0.601)	76734	13.9344	13.9	
13	Vinyl Bromide	106	2.780	2.790	(0.617)	236932	11.0413	11.0	
14	Isopentane	43	2.790	2.799	(0.620)	208841	10.0130	10.0	
15	Freon 123	83	2.790	2.799	(0.620)	9259	0.19314	0.193	
16	Trichlorofluoromethane	101	2.851	2.861	(0.633)	659442	10.4794	10.5	
17	Acrolein	56	2.838	2.854	(0.630)	67453	13.0091	13.0	
18	Acetone	43	2.867	2.880	(0.637)	443890	12.1248	12.1	
19	Isopropyl Alcohol	45	2.886	2.915	(0.641)	393800	12.8133	12.8(Q)	
20	1,1-Dichloroethene	61	3.041	3.050	(0.675)	373748	10.7345	10.7	
21	Acrylonitrile	53	3.037	3.053	(0.674)	163962	11.5302	11.5	
22	Freon 113	101	3.070	3.079	(0.682)	504393	10.7173	10.7	
23	Tert Butyl Alcohol (TBA)	59	3.044	3.073	(0.676)	523632	12.7281	12.7	

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Methyl Acetate	43	3.041	3.076	(0.675)	89547	2.14338	2.14(Q)	
	25 Methylene chloride	49	3.111	3.124	(0.691)	305789	11.9610	12.0	
	26 Allyl Chloride	76	3.121	3.134	(0.693)	80705	13.3699	13.4(Q)	
	27 Carbon Disulfide	76	3.217	3.224	(0.714)	554526	12.5510	12.6	
	28 trans-1,2-dichloroethene	96	3.336	3.349	(0.741)	213831	11.4248	11.4	
	29 Methyl Tert Butyl Ether	73	3.353	3.365	(0.744)	574426	11.3643	11.4	
	30 Vinyl Acetate	43	3.430	3.442	(0.762)	607963	13.8064	13.8	
	31 1,1-Dichloroethane	63	3.446	3.459	(0.765)	399754	10.8959	10.9	
$	32 Hexane-d14(S)	66	3.520	3.526	(0.782)	236030	10.6289	10.6	
	33 Methyl Ethyl Ketone	72	3.568	3.581	(0.792)	76831	11.1148	11.1(M)	
	34 n-Hexane	57	3.600	3.606	(0.799)	297422	10.8832	10.9	
	35 Di-isopropyl Ether	45	3.610	3.623	(0.802)	725507	10.6373	10.6	
	36 cis-1,2-Dichloroethene	96	3.716	3.729	(0.825)	225675	11.1737	11.2	
	37 Ethyl Acetate	43	3.713	3.725	(0.824)	488977	11.2839	11.3	
	38 Ethyl Tert-Butyl Ether	59	3.806	3.819	(0.845)	723653	11.3835	11.4	
	39 Chloroform	83	3.816	3.828	(0.847)	495975	10.9953	11.0	
	40 Tetrahydrofuran	42	3.944	3.957	(0.876)	231029	10.9283	10.9	
	41 1,1,1-Trichloroethane	97	4.156	4.166	(0.923)	600172	10.8813	10.9	
	42 1,2-Dichloroethane	62	4.163	4.179	(0.924)	404571	10.9028	10.9	
	43 Benzene	78	4.362	4.375	(0.969)	622855	9.87831	9.88	
	44 Carbon tetrachloride	117	4.378	4.391	(0.972)	696048	11.5111	11.5	
	45 Cyclohexane	56	4.381	4.391	(0.973)	309661	9.80061	9.80	
	46 Tert Amyl Methyl Ether	73	4.488	4.500	(0.996)	633550	11.3913	11.4	
*	47 1,4-Difluorobenzene	114	4.504	4.513	(1.000)	813586	10.0000		
	48 2,2,4-Trimethylpentane	57	4.635	4.648	(1.029)	1042867	10.3104	10.3	
	49 Heptane	43	4.751	4.761	(1.055)	398405	9.64358	9.64	
	50 1,2-Dichloropropane	63	4.815	4.828	(1.069)	245185	10.1006	10.1	
	51 Trichloroethene	130	4.835	4.848	(1.074)	376908	9.81889	9.82	
	52 Methyl methacrylate	69	4.899	4.912	(1.088)	192539	10.2315	10.2	
	53 Bromodichloromethane	83	4.922	4.934	(1.093)	574401	10.8683	10.9	
	54 1,4-Dioxane	88	4.906	4.922	(1.089)	113259	10.8242	10.8	
	55 Methylcyclohexane	98	5.230	5.240	(1.161)	139496	10.2115	10.2	
	56 Methyl Isobutyl Ketone	43	5.336	5.352	(1.185)	612498	11.1061	11.1	
	57 cis-1,3-Dichloropropene	75	5.391	5.401	(1.197)	386090	10.8836	10.9	
	58 trans-1,3-Dichloropropene	75	5.764	5.777	(1.280)	358382	11.1695	11.2	
$	59 Toluene-d8 (S)	98	5.835	5.844	(1.296)	694390	10.1674	10.2	
	60 Toluene	91	5.905	5.915	(1.311)	772688	10.0500	10.1	
	61 1,1,2-Trichloroethane	97	5.905	5.918	(1.311)	294906	10.1823	10.2	
	62 Methyl Butyl Ketone	43	6.127	6.140	(0.838)	600583	11.7874	11.8	
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	6.394	6.407	(0.875)	714033	11.5800	11.6	
	65 1,2-Dibromoethane	107	6.610	6.619	(0.904)	514552	10.6337	10.6	
	66 Tetrachloroethene	166	6.684	6.693	(0.914)	518257	9.83775	9.84	
*	67 Chlorobenzene - d5	117	7.311	7.320	(1.000)	531321	10.0000		
	68 Chlorobenzene	112	7.352	7.359	(1.006)	642632	10.0325	10.0	
	69 Ethyl Benzene	91	7.593	7.603	(1.039)	989432	9.97254	9.97	
	70 m&p-Xylene	91	7.735	7.748	(1.058)	836644	10.7406	10.7	
	71 Bromoform	173	8.105	8.118	(1.109)	661286	13.2143	13.2	
	72 n-Nonane	43	8.130	8.140	(1.112)	31419	0.66060	0.661	
	73 Styrene	104	8.147	8.156	(1.114)	547726	10.8008	10.8	
	74 o-Xylene	91	8.211	8.220	(1.123)	772547	9.92376	9.92	
	75 1,1,2,2-Tetrachloroethane	83	8.468	8.478	(1.158)	502052	10.6809	10.7	
	76 Isopropylbenzene	105	8.780	8.786	(1.201)	1108932	10.3669	10.4	
	77 N-Propylbenzene	91	9.339	9.349	(1.278)	1165326	10.6804	10.7	

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	9.510	9.519	(1.301)	983558	10.4008	10.4
79	1,3,5-Trimethylbenzene	105	9.600	9.609	(1.313)	838083	10.3908	10.4
80	n-Decane	57	10.002	10.011	(2.221)	40775	1.12907	1.13
81	Tert-Butyl Benzene	119	10.095	10.105	(1.381)	885365	10.2525	10.3
82	1,2,4-Trimethylbenzene	105	10.114	10.124	(1.383)	790698	11.4428	11.4
83	1,3-Dichlorobenzene	146	10.417	10.423	(1.425)	546899	11.6814	11.7
84	Sec- Butylbenzene	105	10.439	10.449	(1.428)	1143762	10.9568	11.0
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.487	10.497	(1.435)	253297	11.6518	11.7(M)
86	Benzyl Chloride	91	10.507	10.516	(1.437)	459140	13.0273	13.0
87	1,4-Dichlorobenzene	146	10.529	10.539	(1.440)	503018	11.7174	11.7
88	p-Isopropyltoluene	119	10.661	10.671	(1.458)	946351	11.0525	11.1
89	1,2,3-Trimethylbenzene	105	10.706	10.716	(1.464)	756754	10.7252	10.7
90	1,2-Dichlorobenzene	146	10.999	11.002	(1.504)	477933	11.5643	11.6
91	N-Butylbenzene	91	11.253	11.259	(1.539)	709777	12.3336	12.3
92	1,2-Dibromo-3-Chloropropane	157	11.777	11.780	(1.611)	40954	4.15579	4.16
93	1,2,4-Trichlorobenzene	180	13.040	13.040	(1.784)	95537	19.6022	19.6(R)
94	Naphthalene	128	13.162	13.162	(1.800)	229281	26.2491	26.2(R)
95	Hexachlorobutadiene	225	13.426	13.426	(1.836)	205402	22.7634	22.8(R)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06312.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

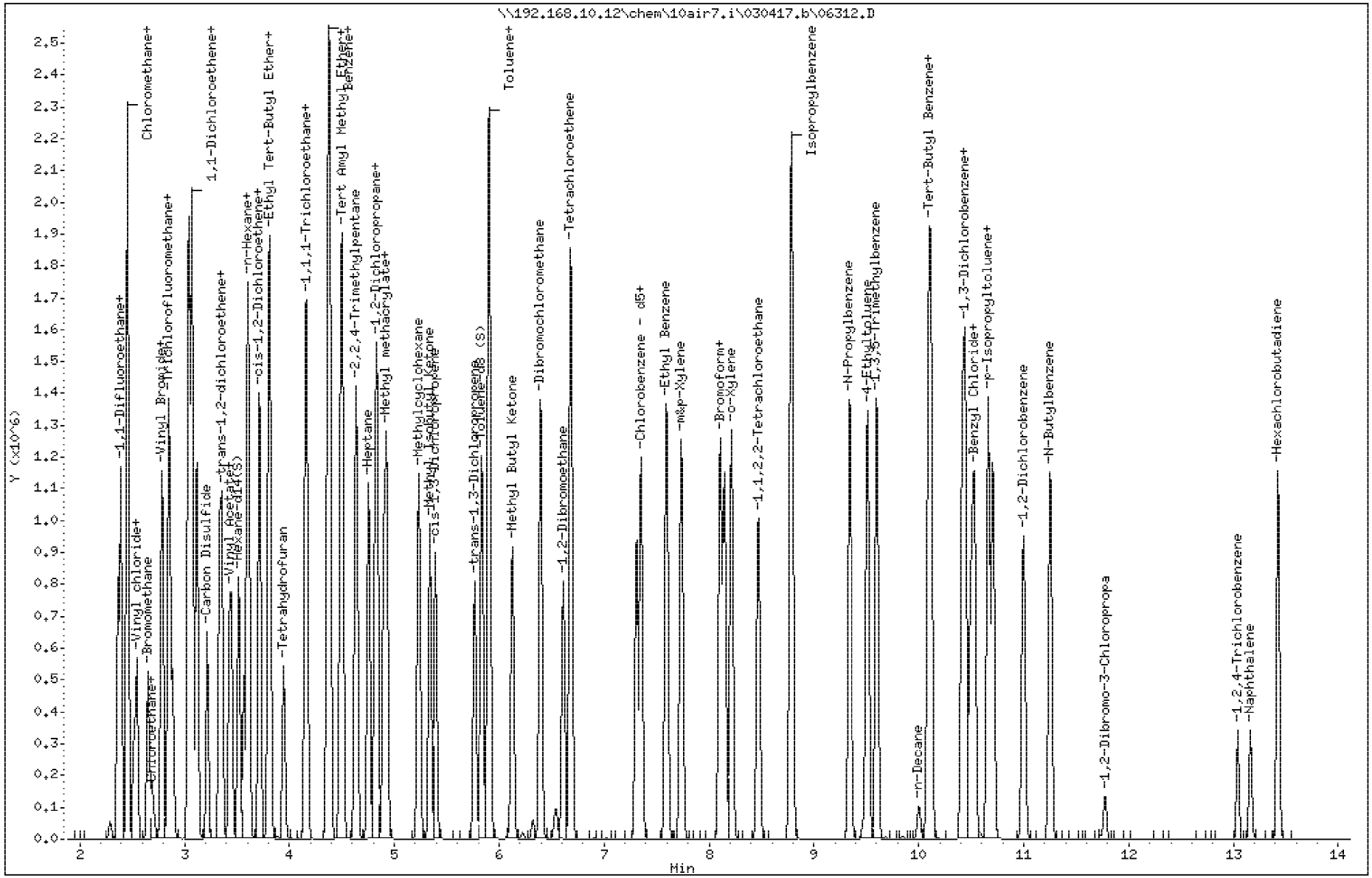
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	813586	-2.68
67 Chlorobenzene - d	539522	323713	755331	531321	-1.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.07
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

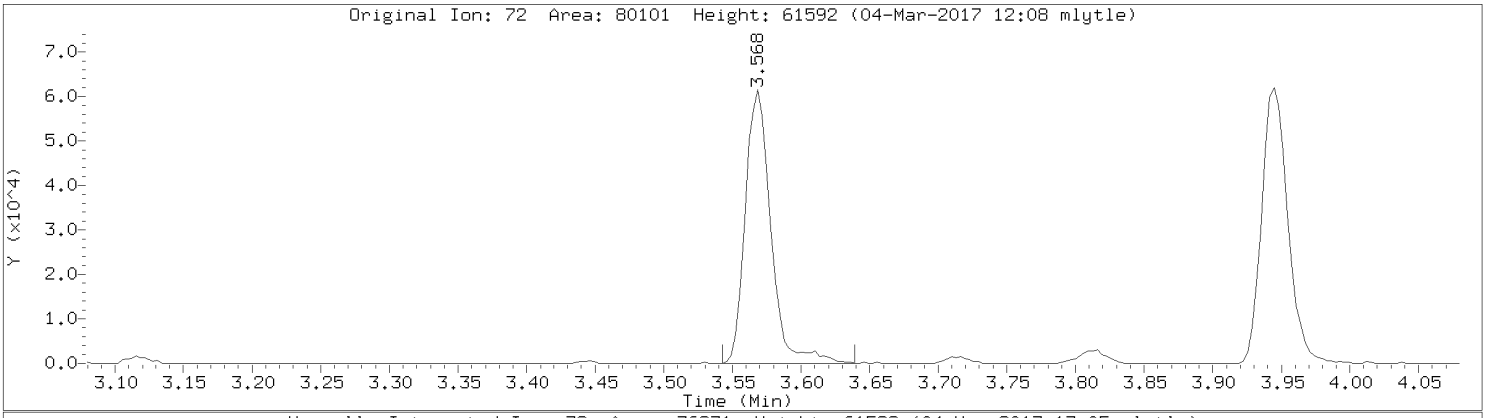
Data File: \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Date : 04-MAR-2017 11:23
Client ID:
Sample Info:

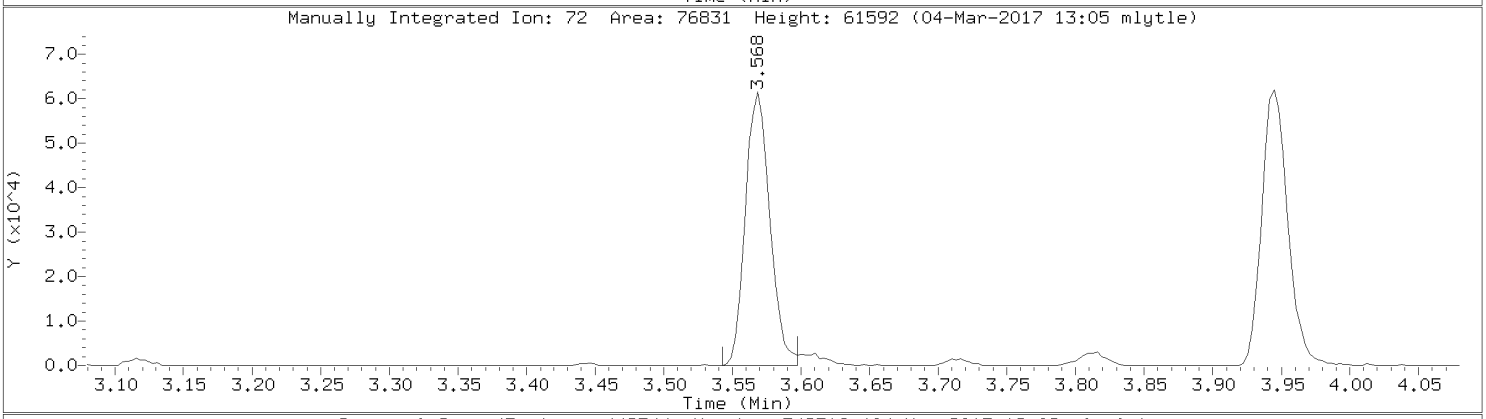
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

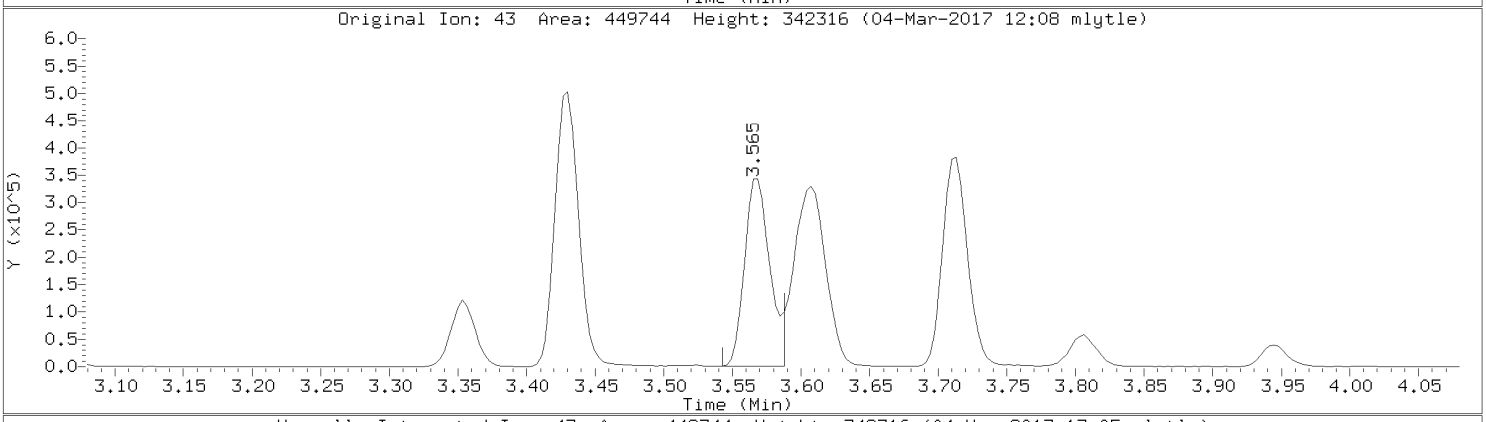


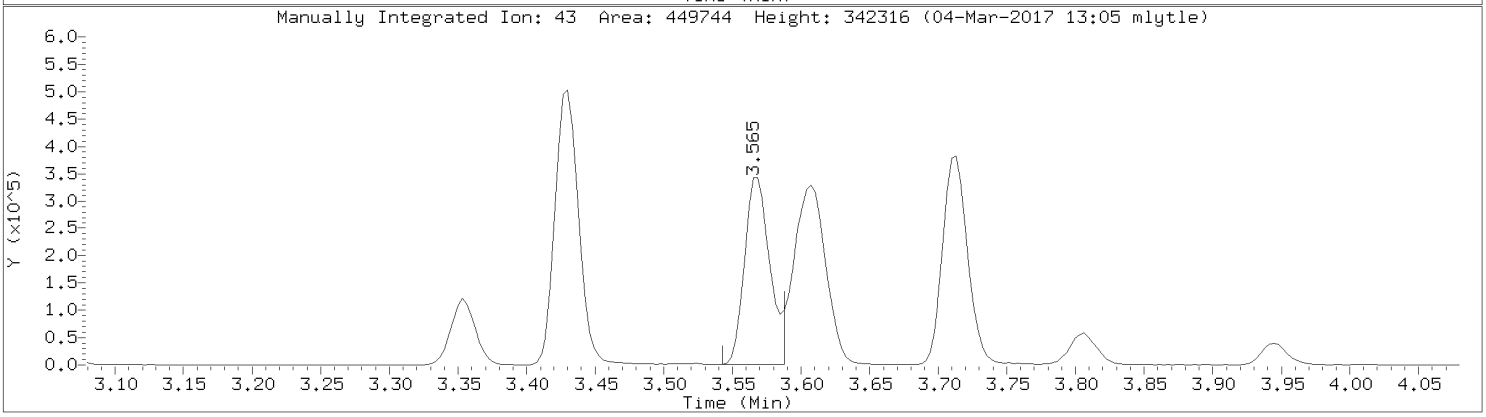
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06312.D
Injection Date: 04-MAR-2017 11:23
Instrument: 10air7.i
Lab Sample ID: ICV

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



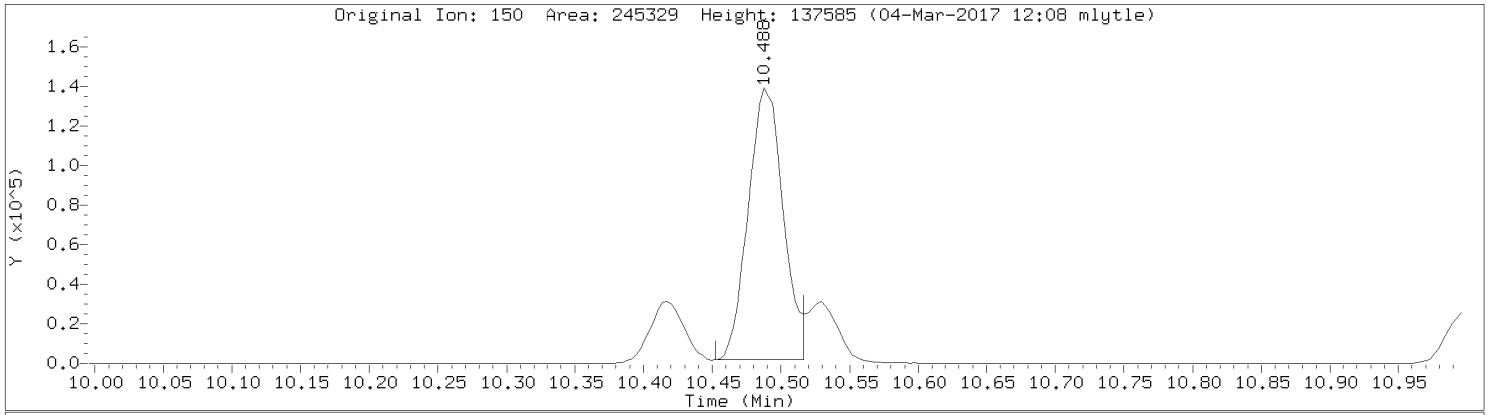


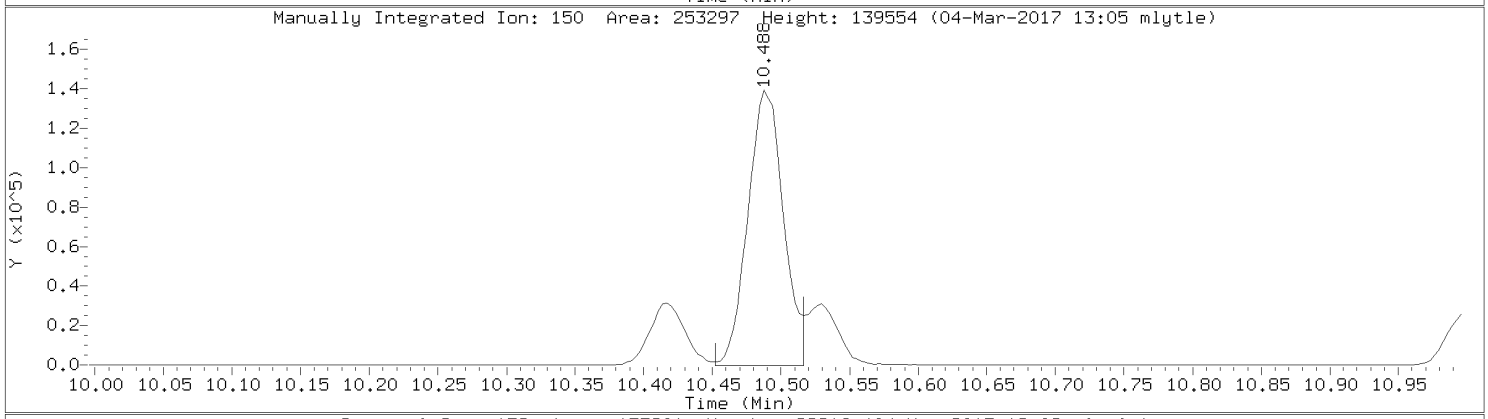


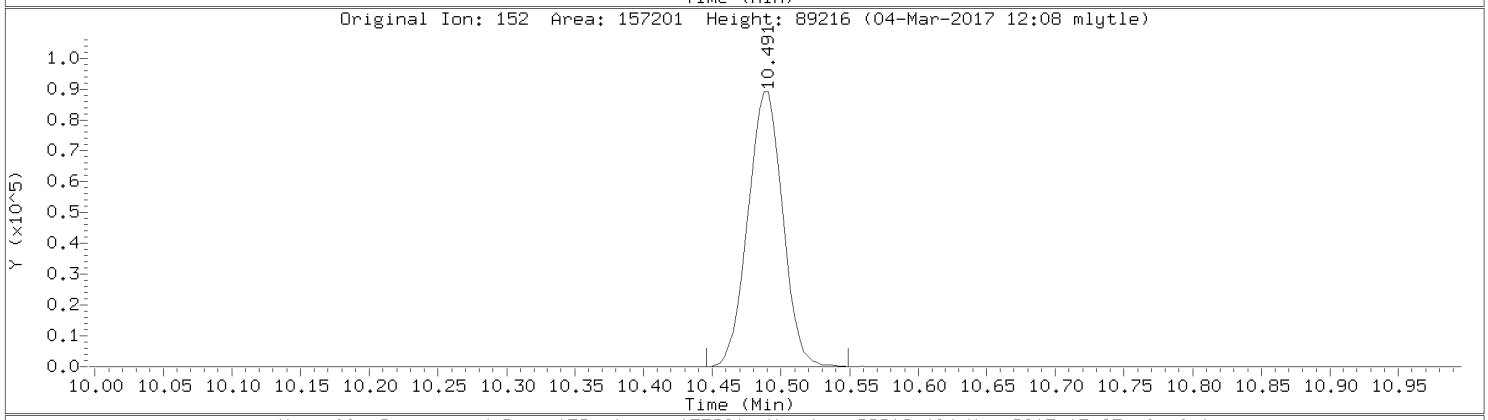


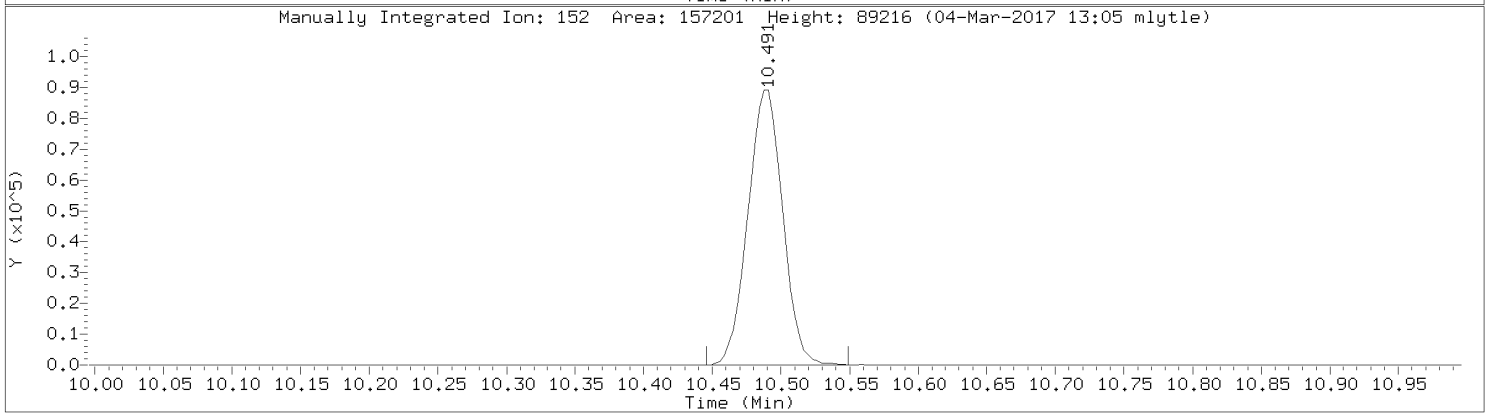
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06312.D
Injection Date: 04-MAR-2017 11:23
Instrument: 10air7.i
Lab Sample ID: ICV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
1	Chloropentafluoroethane	++++	0.02467	0.02467	0.010	++++	30.00000	Aver	(a)	<-
2	1,1-Difluoroethane	0.14717	0.16070	0.16070	0.010	9.19075	30.00000	Aver		
3	Chlorodifluoromethane	0.07589	0.09014	0.09014	0.010	18.78115	30.00000	Aver		
4	Propylene	10.00000	10.39491	0.21712	0.010	3.94912	30.00000	Quad		
5	Dichlorodifluoromethane	0.77842	0.84732	0.84732	0.010	8.85147	30.00000	Aver		
6	Chloromethane	0.31932	0.39522	0.39522	0.010	23.76896	30.00000	Aver		
7	Dichlorotetrafluoroethane	0.71308	0.87638	0.87638	0.010	22.90060	30.00000	Aver		
8	Vinyl chloride	0.23433	0.30527	0.30527	0.010	30.27523	30.00000	Aver		<-
9	1,3-Butadiene	0.17177	0.22517	0.22517	0.010	31.09076	30.00000	Aver		<-
10	Bromomethane	0.25490	0.33911	0.33911	0.010	33.03582	30.00000	Aver		<-
11	Chloroethane	0.09156	0.12601	0.12601	0.010	37.62162	30.00000	Aver		<-
12	Ethanol	0.06769	0.10146	0.10146	0.005	49.89769	30.00000	Aver		<-
13	Vinyl Bromide	0.26375	0.35444	0.35444	0.010	34.38381	30.00000	Aver		<-
14	Isopentane	0.25636	0.33677	0.33677	0.010	31.36874	30.00000	Aver		<-
15	Freon 123	0.58924	0.76433	0.76433	0.010	29.71515	30.00000	Aver		
16	Trichlorofluoromethane	0.77346	0.99712	0.99712	0.010	28.91735	30.00000	Aver		
17	Acrolein	0.06373	0.10759	0.10759	0.010	68.81721	30.00000	Aver		<-
18	Acetone	0.44998	0.52379	0.52379	0.010	16.40266	30.00000	Aver	(M)	
19	Isopropyl Alcohol	0.37776	0.50842	0.50842	0.010	34.58851	30.00000	Aver	(M)	<-
20	1,1-Dichloroethene	0.42795	0.54717	0.54717	0.010	27.85938	30.00000	Aver		
21	Acrylonitrile	0.17478	0.23246	0.23246	0.010	33.00022	30.00000	Aver		<-
22	Freon 113	0.57847	0.74424	0.74424	0.010	28.65705	30.00000	Aver		
23	Tert Butyl Alcohol (TBA)	0.50566	0.67066	0.67066	0.010	32.63123	30.00000	Aver		<-
24	Methyl Acetate	0.51351	0.82768	0.82768	0.010	61.18090	30.00000	Aver		<-
25	Methylene chloride	0.31423	0.40695	0.40695	0.010	29.50656	30.00000	Aver		
26	Allyl Chloride	0.07419	0.11631	0.11631	0.010	56.75995	30.00000	Aver		<-
27	Carbon Disulfide	0.54305	0.75195	0.75195	0.010	38.46694	30.00000	Aver		<-
28	trans-1,2-dichloroethene	0.23005	0.31011	0.31011	0.010	34.80034	30.00000	Aver		<-
29	Methyl Tert Butyl Ether	0.62128	0.80114	0.80114	0.010	28.94925	30.00000	Aver		
30	Vinyl Acetate	0.54124	0.92853	0.92853	0.010	71.55574	30.00000	Aver		<-
31	1,1-Dichloroethane	0.45095	0.59948	0.59948	0.010	32.93880	30.00000	Aver		<-
$ 32	Hexane-d14(S)	0.27295	0.34769	0.34769	0.010	27.38392	30.00000	Aver		
33	Methyl Ethyl Ketone	0.08496	0.11690	0.11690	0.010	37.59416	30.00000	Aver	(M)	<-
34	n-Hexane	0.33590	0.44252	0.44252	0.010	31.74093	30.00000	Aver		<-
35	Di-isopropyl Ether	0.83832	1.14773	1.14773	0.010	36.90934	30.00000	Aver		<-
36	cis-1,2-Dichloroethene	0.24825	0.34100	0.34100	0.010	37.36292	30.00000	Aver		<-
37	Ethyl Acetate	0.53263	0.74553	0.74553	0.010	39.97234	30.00000	Aver	(M)	<-
38	Ethyl Tert-Butyl Ether	0.78136	1.03281	1.03281	0.010	32.18123	30.00000	Aver		<-
39	Chloroform	0.55443	0.74294	0.74294	0.010	33.99958	30.00000	Aver		<-
40	Tetrahydrofuran	0.25984	0.35926	0.35926	0.010	38.25941	30.00000	Aver		<-
41	1,1,1-Trichloroethane	0.67794	0.81945	0.81945	0.010	20.87318	30.00000	Aver		
42	1,2-Dichloroethane	0.45609	0.53209	0.53209	0.010	16.66260	30.00000	Aver		

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.77500	0.80498	0.80498	0.010	3.86803	30.00000	Aver		
	44 Carbon tetrachloride	0.74323	0.92152	0.92152	0.010	23.98948	30.00000	Aver		
	45 Cyclohexane	0.38836	0.39477	0.39477	0.010	1.65176	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.69668	0.79892	0.010	16.96676	30.00000	Line		
	48 2,2,4-Trimethylpentane	1.24323	1.25183	1.25183	0.010	0.69216	30.00000	Aver		
	49 Heptane	0.50779	0.51557	0.51557	0.010	1.53270	30.00000	Aver		
	50 1,2-Dichloropropane	0.29836	0.30815	0.30815	0.010	3.27955	30.00000	Aver		
	51 Trichloroethene	0.47181	0.47752	0.47752	0.010	1.21003	30.00000	Aver		
	52 Methyl methacrylate	0.23130	0.24772	0.24772	0.100	7.09771	30.00000	Aver		
	53 Bromodichloromethane	0.64960	0.74455	0.74455	0.010	14.61607	30.00000	Aver		
	54 1,4-Dioxane	0.12861	0.12973	0.12973	0.010	0.87017	30.00000	Aver		
	55 Methylcyclohexane	0.16791	0.17521	0.17521	0.010	4.35103	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.67786	0.71410	0.71410	0.010	5.34616	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.43603	0.49342	0.49342	0.010	13.16366	30.00000	Aver		
	58 trans-1,3-Dichloropropene	0.39438	0.46465	0.46465	0.010	17.81792	30.00000	Aver		
$	59 Toluene-d8 (S)	0.83944	0.83998	0.83998	0.010	0.06424	30.00000	Aver		
	60 Toluene	0.94500	0.96976	0.96976	0.010	2.62014	30.00000	Aver		
	61 1,1,2-Trichloroethane	0.35599	0.37560	0.37560	0.010	5.51036	30.00000	Aver		
	62 Methyl Butyl Ketone	0.95895	0.96352	0.96352	0.010	0.47665	30.00000	Aver		
	63 n-Octane	0.99651	0.98172	0.98172	0.010	-1.48414	30.00000	Aver		
	64 Dibromochloromethane	1.16053	1.41895	1.41895	0.010	22.26761	30.00000	Aver		
	65 1,2-Dibromoethane	0.91073	0.98957	0.98957	0.010	8.65734	30.00000	Aver		
	66 Tetrachloroethene	0.99150	0.99900	0.99900	0.010	0.75614	30.00000	Aver		
	68 Chlorobenzene	1.20558	1.24982	1.24982	0.010	3.66928	30.00000	Aver		
	69 Ethyl Benzene	1.86734	1.87603	1.87603	0.010	0.46550	30.00000	Aver		
	70 m&p-Xylene	1.46607	1.44383	1.44383	0.010	-1.51751	30.00000	Aver		
	71 Bromoform	0.94186	1.30855	1.30855	0.010	38.93275	30.00000	Aver		<-
	72 n-Nonane	0.89515	0.94581	0.94581	0.010	5.65972	30.00000	Aver		
	73 Styrene	0.95444	1.02412	1.02412	0.010	7.30062	30.00000	Aver		
	74 o-Xylene	1.46518	1.45915	1.45915	0.010	-0.41202	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.88468	0.90439	0.90439	0.010	2.22794	30.00000	Aver		
	76 Isopropylbenzene	2.01325	2.06612	2.06612	0.010	2.62627	30.00000	Aver		
	77 N-Propylbenzene	2.05353	2.15278	2.15278	0.010	4.83324	30.00000	Aver		
	78 4-Ethyltoluene	1.77983	1.84975	1.84975	0.010	3.92880	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.51803	1.55945	1.55945	0.010	2.72848	30.00000	Aver		
	80 n-Decane	0.44389	0.51638	0.51638	0.010	16.33197	30.00000	Aver		
	81 Tert-Butyl Benzene	1.62531	1.65129	1.65129	0.010	1.59888	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.30053	1.43062	1.43062	0.010	10.00293	30.00000	Aver		
	83 1,3-Dichlorobenzene	0.88116	0.96215	0.96215	0.010	9.19156	30.00000	Aver		
	84 Sec- Butylbenzene	1.96470	2.03457	2.03457	0.010	3.55622	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.40915	0.53689	0.53689	0.010	31.22218	30.00000	Aver	(M)	<-
	86 Benzyl Chloride	0.66334	0.81896	0.81896	0.010	23.46084	30.00000	Aver		

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.80797	0.88668	0.88668	0.010	9.74186	30.00000	Aver		
88 p-Isopropyltoluene	1.61151	1.69935	1.69935	0.010	5.45077	30.00000	Aver		
89 1,2,3-Trimethylbenzene	1.32799	1.35058	1.35058	0.010	1.70138	30.00000	Aver		
90 1,2-Dichlorobenzene	0.77784	0.82980	0.82980	0.010	6.67965	30.00000	Aver		
91 N-Butylbenzene	1.08312	1.19374	1.19374	0.010	10.21358	30.00000	Aver		
92 1,2-Dibromo-3-Chloropropane	0.18548	0.26447	0.26447	0.010	42.59310	30.00000	Aver		<-
93 1,2,4-Trichlorobenzene	10.00000	14.01379	0.12838	0.010	40.13788	30.00000	Line		<-
94 Naphthalene	10.00000	15.43546	0.25541	0.010	54.35462	30.00000	Line		<-
95 Hexachlorobutadiene	10.00000	14.18942	0.25812	0.010	41.89416	30.00000	Quad		<-

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Average %D / Drift Results.
Calculated Average %D/Drift = 20.47311
Maximun Average %D/Drift = 0.000e+000
* Failed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Lab Smp Id: CCV
Inj Date : 05-MAR-2017 10:57
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
2	1,1-Difluoroethane	65	2.352	2.352	(0.522)	115964	10.0000	10.9
3	Chlorodifluoromethane	67	2.365	2.365	(0.525)	65046	10.0000	11.9
4	Propylene	41	2.372	2.372	(0.527)	156681	10.0000	10.4
5	Dichlorodifluoromethane	85	2.391	2.391	(0.531)	611457	10.0000	10.9
6	Chloromethane	50	2.459	2.459	(0.546)	285206	10.0000	12.4
7	Dichlorotetrafluoroethane	85	2.459	2.459	(0.546)	632423	10.0000	12.3
8	Vinyl chloride	62	2.516	2.516	(0.559)	220296	10.0000	13.0
9	1,3-Butadiene	54	2.545	2.545	(0.565)	162492	10.0000	13.1
10	Bromomethane	94	2.651	2.651	(0.589)	244711	10.0000	13.3
11	Chloroethane	64	2.687	2.687	(0.597)	90931	10.0000	13.8
12	Ethanol	45	2.713	2.713	(0.602)	366081	50.0000	74.9
13	Vinyl Bromide	106	2.780	2.780	(0.617)	255778	10.0000	13.4
14	Isopentane	43	2.790	2.790	(0.620)	243028	10.0000	13.1
15	Freon 123	83	2.793	2.793	(0.620)	551570	10.0000	13.0
16	Trichlorofluoromethane	101	2.851	2.851	(0.633)	719556	10.0000	12.9
17	Acrolein	56	2.841	2.841	(0.631)	194100	25.0000	42.2
18	Acetone	43	2.870	2.870	(0.637)	1889934	50.0000	58.2(M)
19	Isopropyl Alcohol	45	2.893	2.893	(0.642)	1834451	50.0000	67.3(M)
20	1,1-Dichloroethene	61	3.041	3.041	(0.675)	394860	10.0000	12.8
21	Acrylonitrile	53	3.041	3.041	(0.675)	419385	25.0000	33.3
22	Freon 113	101	3.073	3.073	(0.682)	537070	10.0000	12.9
23	Tert Butyl Alcohol (TBA)	59	3.050	3.050	(0.677)	1209933	25.0000	33.2
24	Methyl Acetate	43	3.066	3.066	(0.681)	597280	10.0000	16.1

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)	
	25 Methylene chloride	49	3.115	3.115	(0.692)	1468350	50.0000	64.8	
	26 Allyl Chloride	76	3.124	3.124	(0.694)	209827	25.0000	39.2	
	27 Carbon Disulfide	76	3.217	3.217	(0.714)	542630	10.0000	13.8	
	28 trans-1,2-dichloroethene	96	3.340	3.340	(0.742)	223783	10.0000	13.5	
	29 Methyl Tert Butyl Ether	73	3.356	3.356	(0.745)	1445324	25.0000	32.2	
	30 Vinyl Acetate	43	3.433	3.433	(0.762)	670061	10.0000	17.2	
	31 1,1-Dichloroethane	63	3.449	3.449	(0.766)	432608	10.0000	13.3	
$	32 Hexane-d14(S)	66	3.520	3.520	(0.782)	250904	10.0000	12.7	
	33 Methyl Ethyl Ketone	72	3.571	3.571	(0.793)	84362	10.0000	13.8	(M)
	34 n-Hexane	57	3.600	3.600	(0.799)	319338	10.0000	13.2	
	35 Di-isopropyl Ether	45	3.613	3.613	(0.802)	828243	10.0000	13.7	
	36 cis-1,2-Dichloroethene	96	3.719	3.719	(0.826)	246076	10.0000	13.7	
	37 Ethyl Acetate	43	3.713	3.713	(0.824)	538003	10.0000	14.0	(M)
	38 Ethyl Tert-Butyl Ether	59	3.809	3.809	(0.846)	1863271	25.0000	33.0	
	39 Chloroform	83	3.819	3.819	(0.848)	536131	10.0000	13.4	
	40 Tetrahydrofuran	42	3.947	3.947	(0.876)	259251	10.0000	13.8	
	41 1,1,1-Trichloroethane	97	4.156	4.156	(0.923)	591343	10.0000	12.1	
	42 1,2-Dichloroethane	62	4.166	4.166	(0.925)	383973	10.0000	11.7	
	43 Benzene	78	4.365	4.365	(0.969)	580898	10.0000	10.4	
	44 Carbon tetrachloride	117	4.381	4.381	(0.973)	665001	10.0000	12.4	
	45 Cyclohexane	56	4.385	4.385	(0.974)	284880	10.0000	10.2	
	46 Tert Amyl Methyl Ether	73	4.491	4.491	(0.997)	576530	10.0000	11.7	
*	47 1,4-Difluorobenzene	114	4.504	4.504	(1.000)	721634	10.0000		
	48 2,2,4-Trimethylpentane	57	4.639	4.639	(1.030)	2258413	25.0000	25.2	
	49 Heptane	43	4.754	4.754	(1.056)	372054	10.0000	10.2	
	50 1,2-Dichloropropane	63	4.815	4.815	(1.069)	222369	10.0000	10.3	
	51 Trichloroethene	130	4.835	4.835	(1.074)	344596	10.0000	10.1	
	52 Methyl methacrylate	69	4.899	4.899	(1.088)	178761	10.0000	10.7	
	53 Bromodichloromethane	83	4.925	4.925	(1.094)	537293	10.0000	11.5	
	54 1,4-Dioxane	88	4.909	4.909	(1.090)	93617	10.0000	10.1	
	55 Methylcyclohexane	98	5.233	5.233	(1.162)	126440	10.0000	10.4	
	56 Methyl Isobutyl Ketone	43	5.339	5.339	(1.186)	1288295	25.0000	26.3	
	57 cis-1,3-Dichloropropene	75	5.391	5.391	(1.197)	356070	10.0000	11.3	
	58 trans-1,3-Dichloropropene	75	5.767	5.767	(1.281)	335304	10.0000	11.8	
$	59 Toluene-d8 (S)	98	5.835	5.835	(1.296)	606161	10.0000	10.0	
	60 Toluene	91	5.905	5.905	(1.311)	699814	10.0000	10.3	
	61 1,1,2-Trichloroethane	97	5.909	5.909	(1.312)	271048	10.0000	10.6	
	62 Methyl Butyl Ketone	43	6.127	6.127	(0.838)	1149891	25.0000	25.1	
	63 n-Octane	43	6.327	6.327	(0.865)	468643	10.0000	9.85	
	64 Dibromochloromethane	129	6.397	6.397	(0.875)	677361	10.0000	12.2	
	65 1,2-Dibromoethane	107	6.613	6.613	(0.905)	472392	10.0000	10.9	
	66 Tetrachloroethene	166	6.683	6.683	(0.914)	476890	10.0000	10.1	
*	67 Chlorobenzene - d5	117	7.310	7.310	(1.000)	477369	10.0000		
	68 Chlorobenzene	112	7.352	7.352	(1.006)	596623	10.0000	10.4	
	69 Ethyl Benzene	91	7.597	7.597	(1.039)	895559	10.0000	10.0	
	70 m&p-Xylene	91	7.738	7.738	(1.058)	1378476	20.0000	19.7	
	71 Bromoform	173	8.108	8.108	(1.109)	624663	10.0000	13.9	
	72 n-Nonane	43	8.134	8.134	(1.113)	451501	10.0000	10.6	
	73 Styrene	104	8.150	8.150	(1.115)	488885	10.0000	10.7	
	74 o-Xylene	91	8.214	8.214	(1.124)	696551	10.0000	9.96	
	75 1,1,2,2-Tetrachloroethane	83	8.468	8.468	(1.158)	431727	10.0000	10.2	
	76 Isopropylbenzene	105	8.783	8.783	(1.201)	986304	10.0000	10.3	
	77 N-Propylbenzene	91	9.343	9.343	(1.278)	1027672	10.0000	10.5	
	78 4-Ethyltoluene	105	9.513	9.513	(1.301)	883015	10.0000	10.4	

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
79	1,3,5-Trimethylbenzene	105	9.603	9.603	(1.314)	744432	10.0000	10.3
80	n-Decane	57	10.005	10.005	(2.221)	372638	10.0000	11.6
81	Tert-Butyl Benzene	119	10.098	10.098	(1.381)	788277	10.0000	10.2
82	1,2,4-Trimethylbenzene	105	10.114	10.114	(1.383)	682933	10.0000	11.0
83	1,3-Dichlorobenzene	146	10.420	10.420	(1.425)	459301	10.0000	10.9
84	Sec- Butylbenzene	105	10.439	10.439	(1.428)	971240	10.0000	10.4
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.487	10.487	(1.435)	256295	10.0000	13.1(M)
86	Benzyl Chloride	91	10.506	10.506	(1.437)	390946	10.0000	12.3
87	1,4-Dichlorobenzene	146	10.529	10.529	(1.440)	423275	10.0000	11.0
88	p-Isopropyltoluene	119	10.661	10.661	(1.458)	811217	10.0000	10.5
89	1,2,3-Trimethylbenzene	105	10.706	10.706	(1.464)	644726	10.0000	10.2
90	1,2-Dichlorobenzene	146	10.998	10.998	(1.504)	396119	10.0000	10.7
91	N-Butylbenzene	91	11.252	11.252	(1.539)	569855	10.0000	11.0
92	1,2-Dibromo-3-Chloropropane	157	11.777	11.777	(1.611)	126252	10.0000	14.3
93	1,2,4-Trichlorobenzene	180	13.037	13.037	(1.783)	61285	10.0000	14.0
94	Naphthalene	128	13.156	13.156	(1.800)	121926	10.0000	15.4
95	Hexachlorobutadiene	225	13.420	13.420	(1.836)	123217	10.0000	14.2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06405.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info:

Calibration Date: 05-MAR-2017
Calibration Time: 09:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

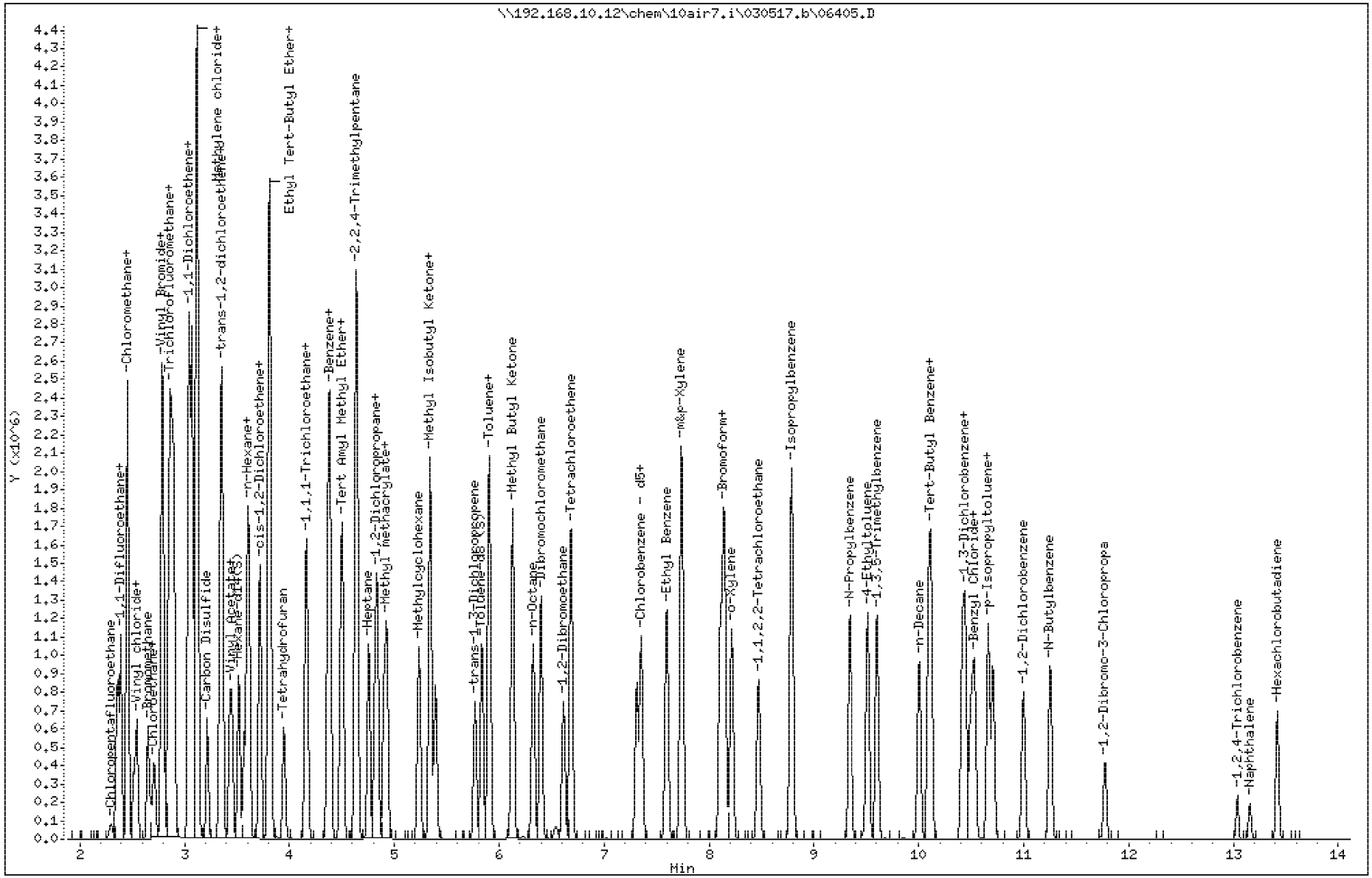
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	721634	-13.68
67 Chlorobenzene - d	539522	323713	755331	477369	-11.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.07
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

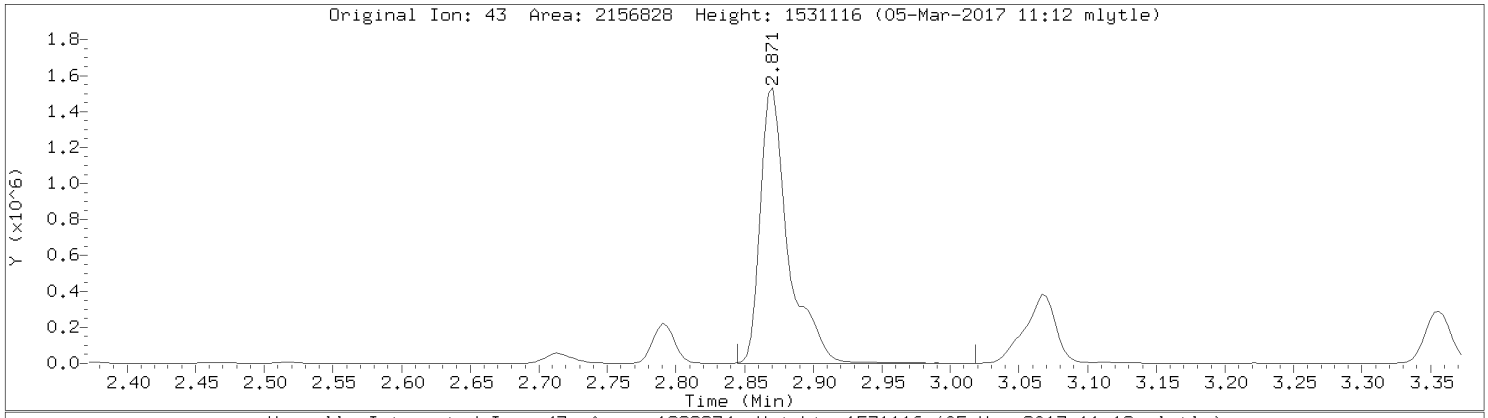
Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Date : 05-MAR-2017 10:57
Client ID:
Sample Info:

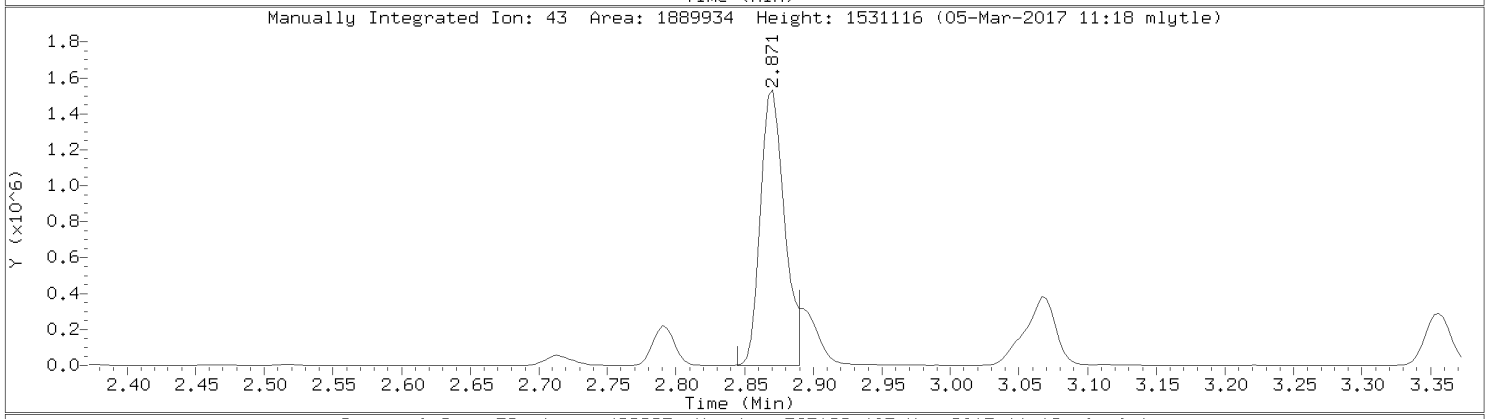
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

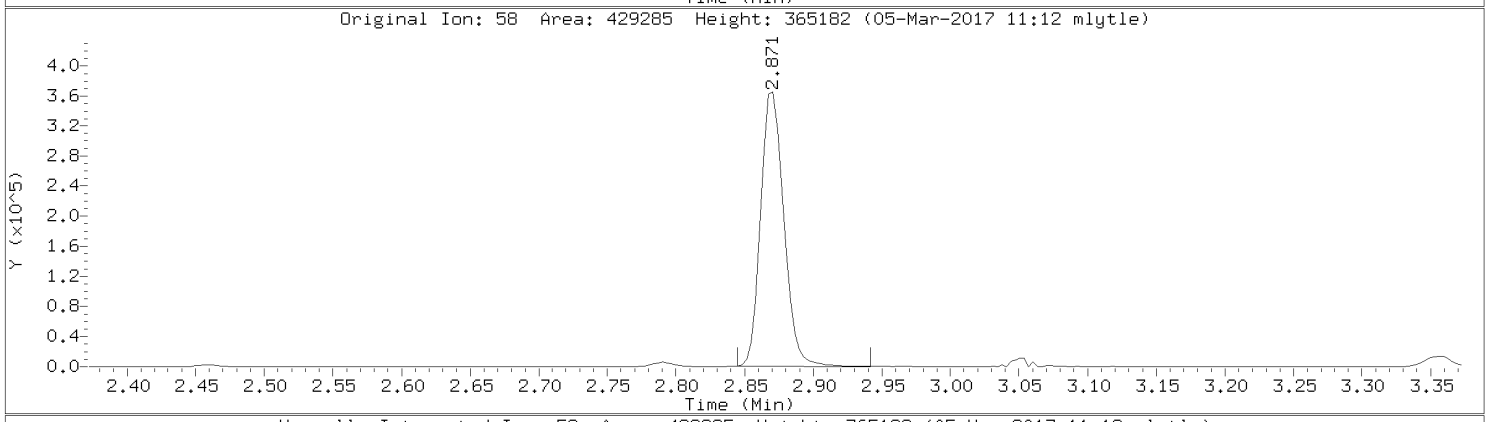


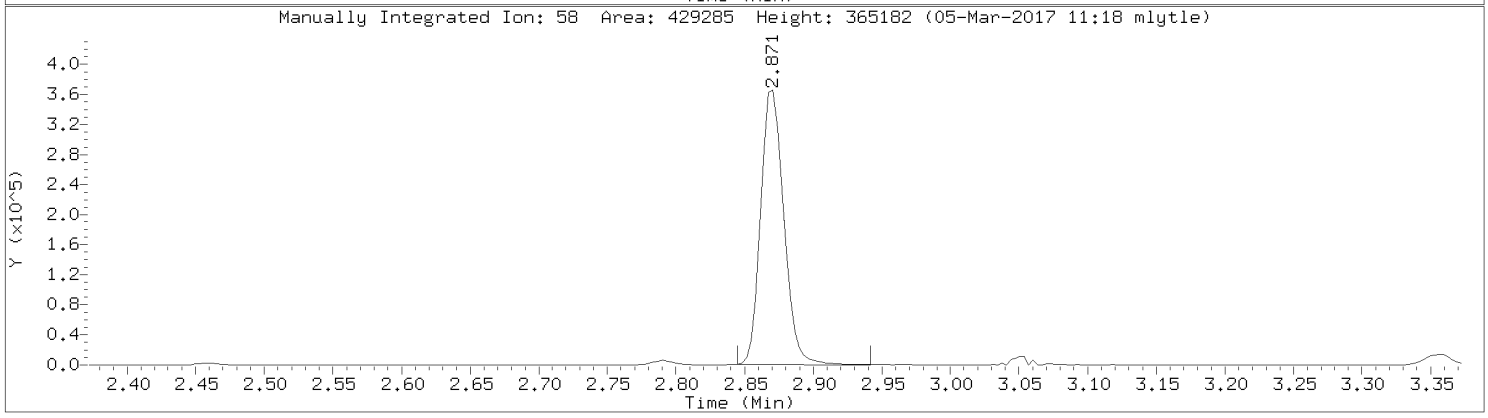
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

Compound: Acetone
CAS Number: 67-64-1



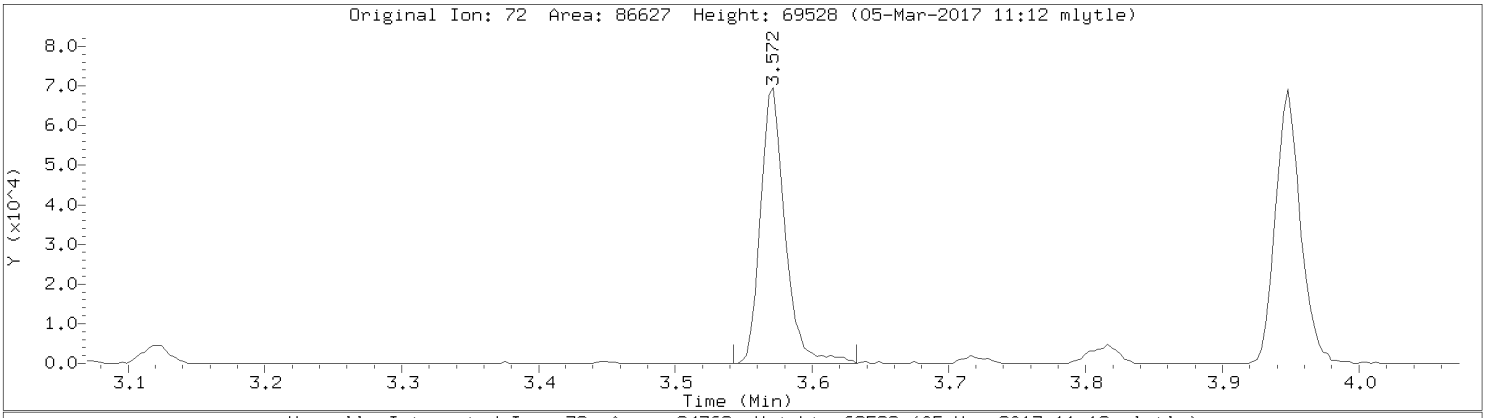


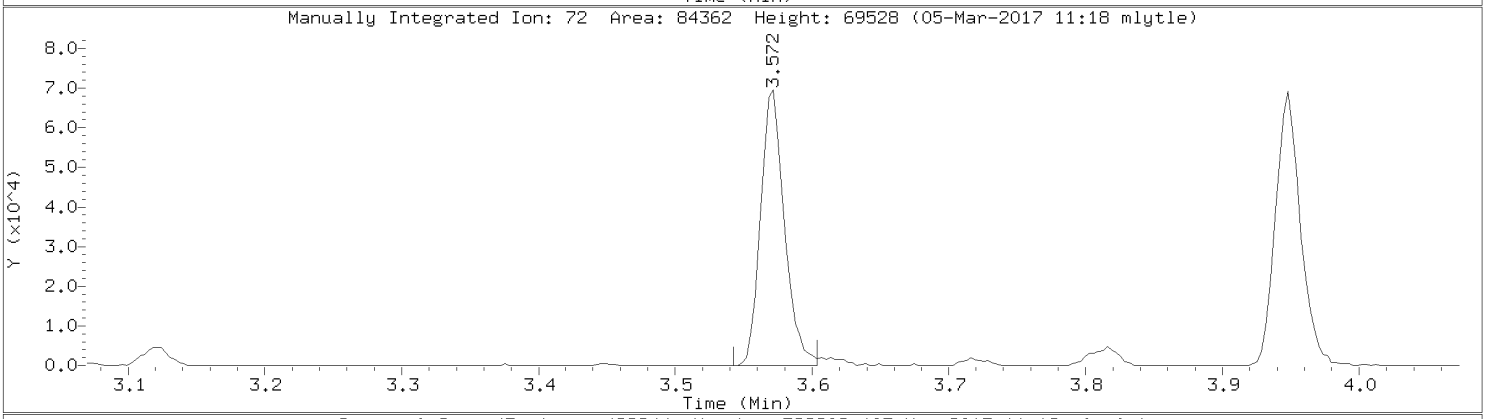


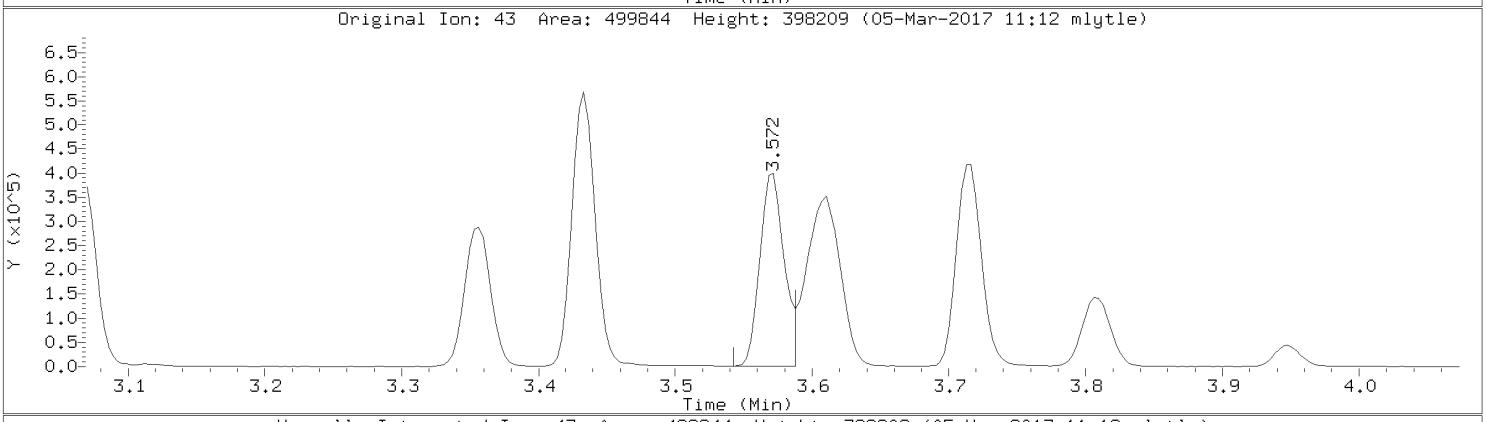


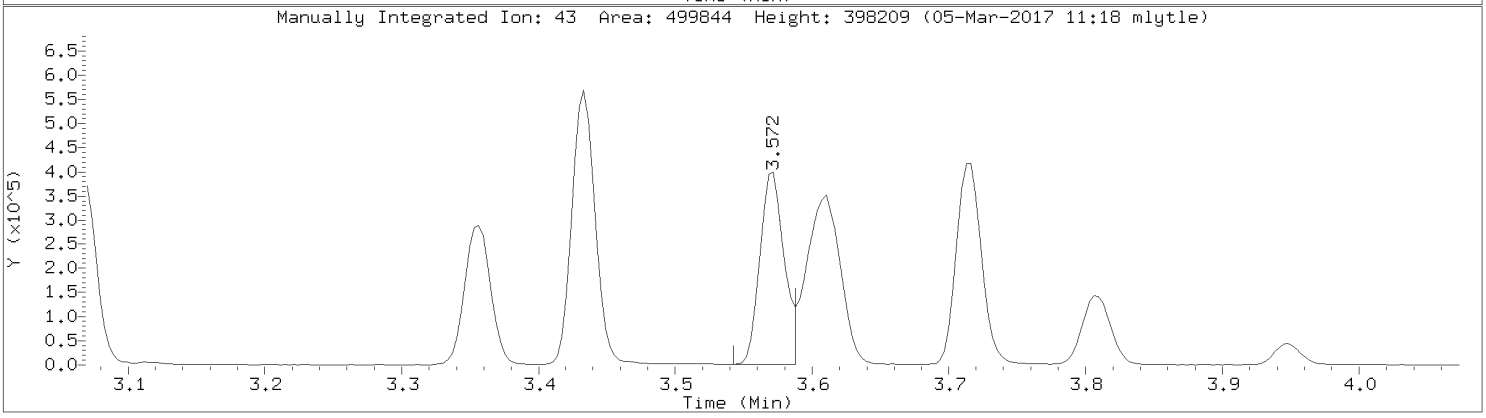
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



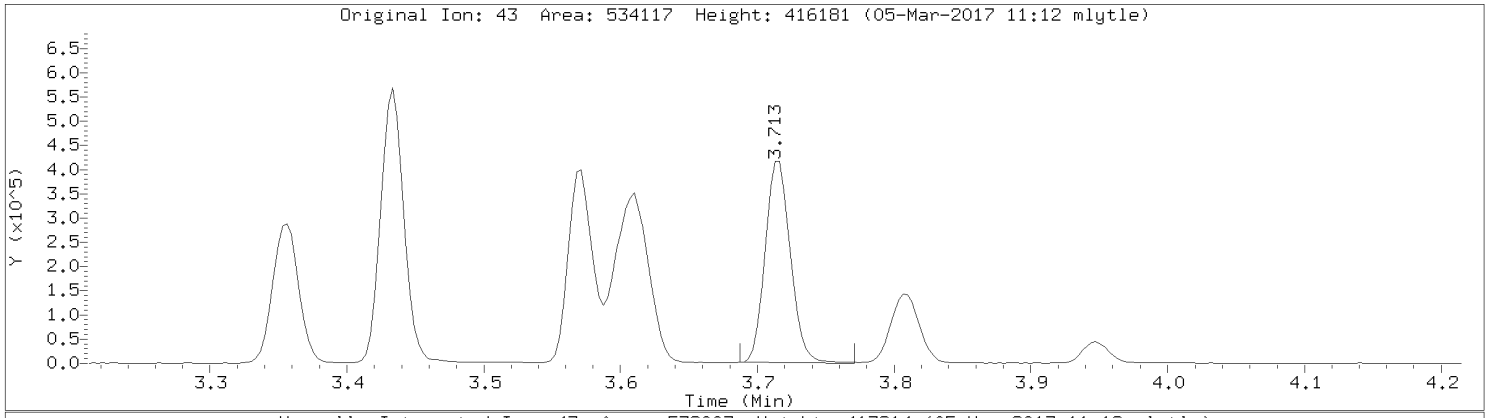


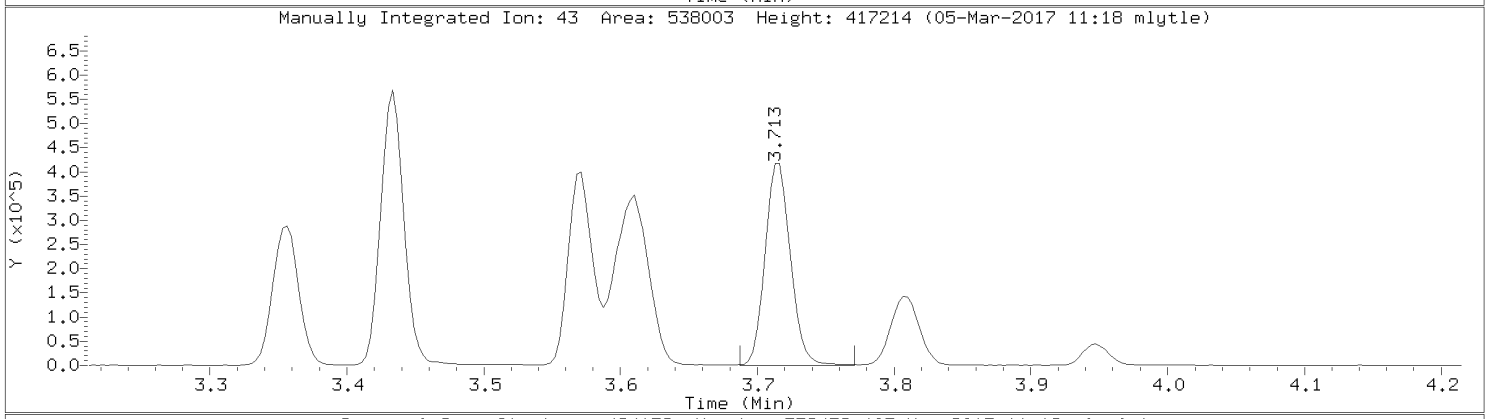


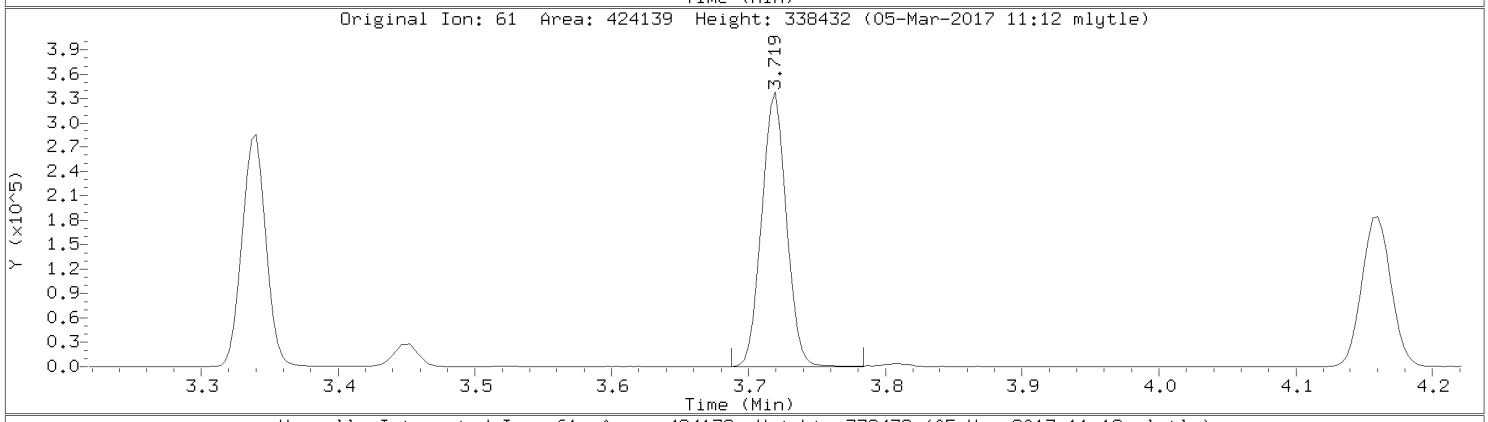


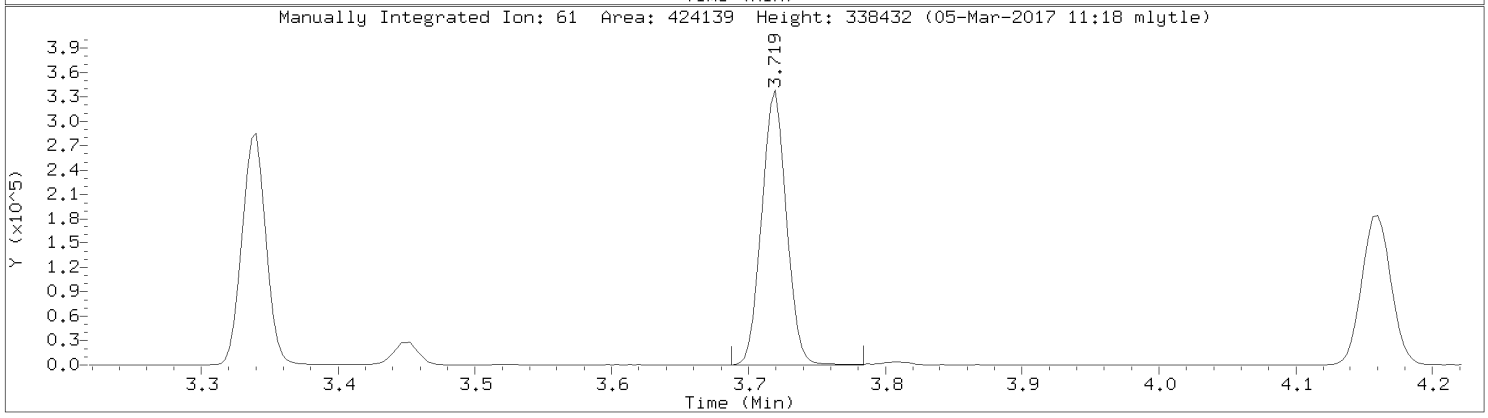
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

Compound: Ethyl Acetate
CAS Number: 141-78-6

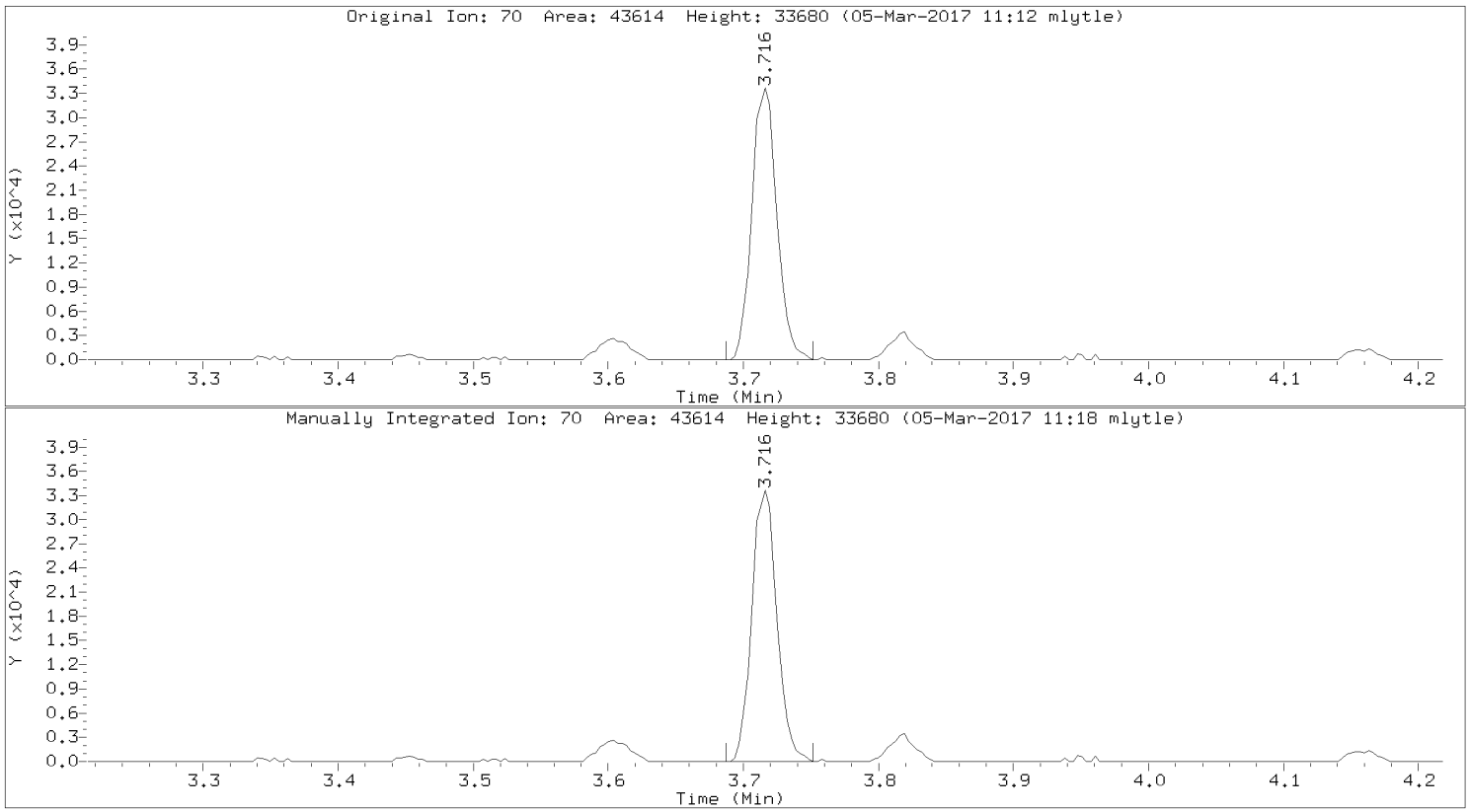






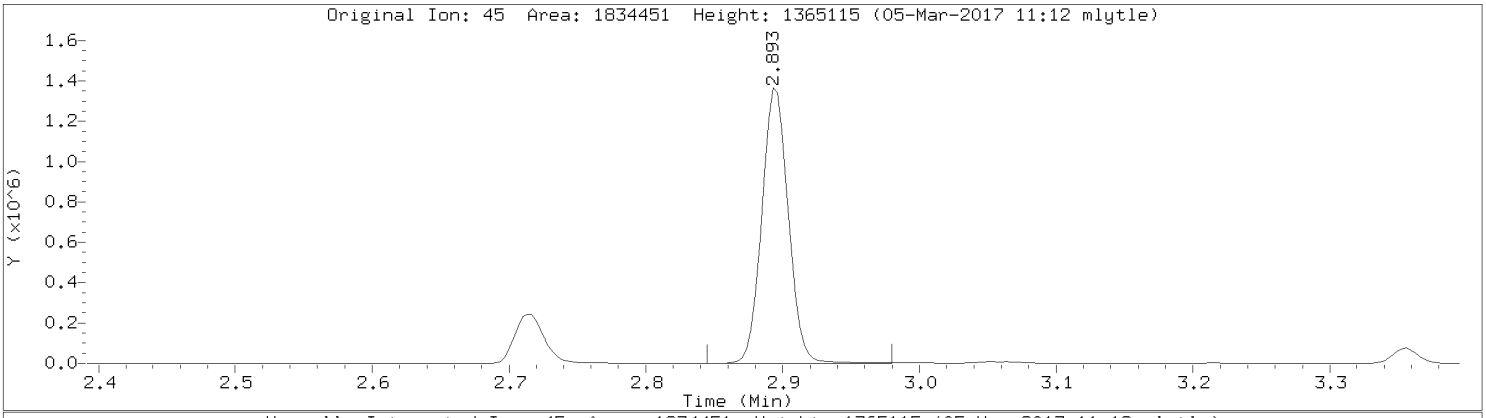


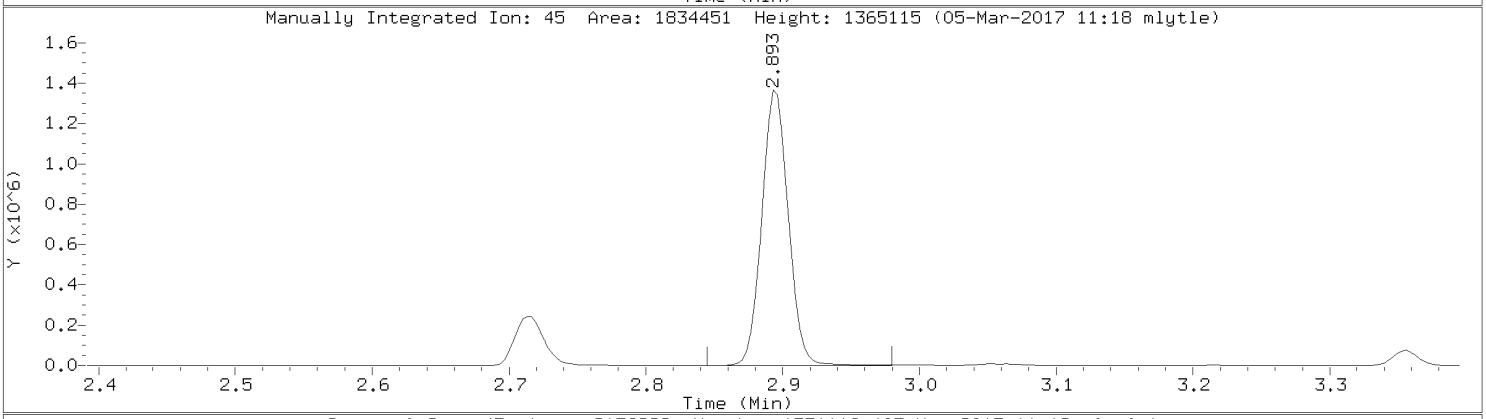
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

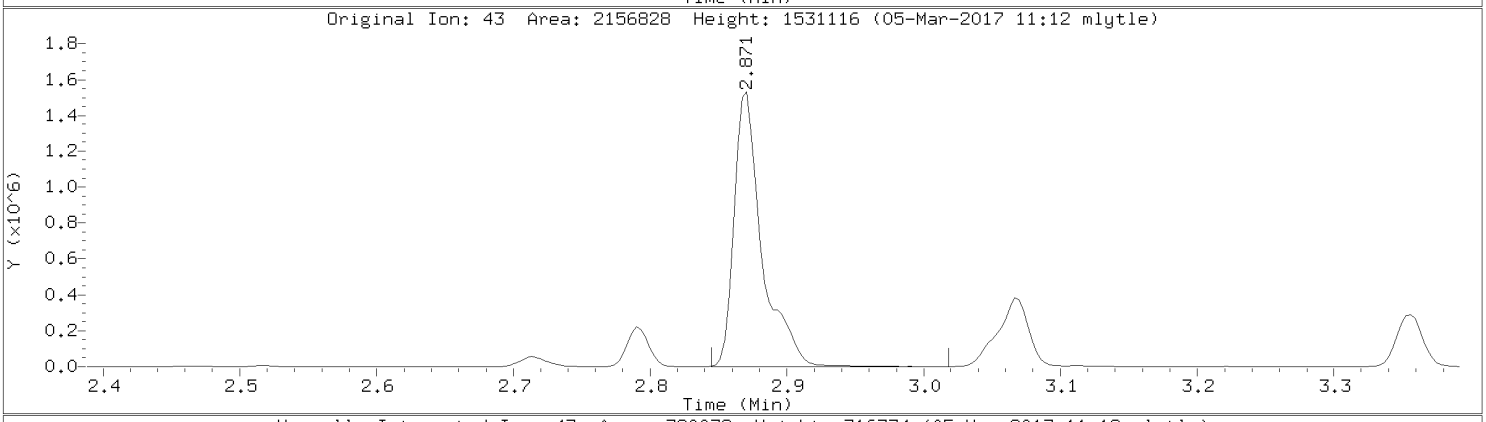


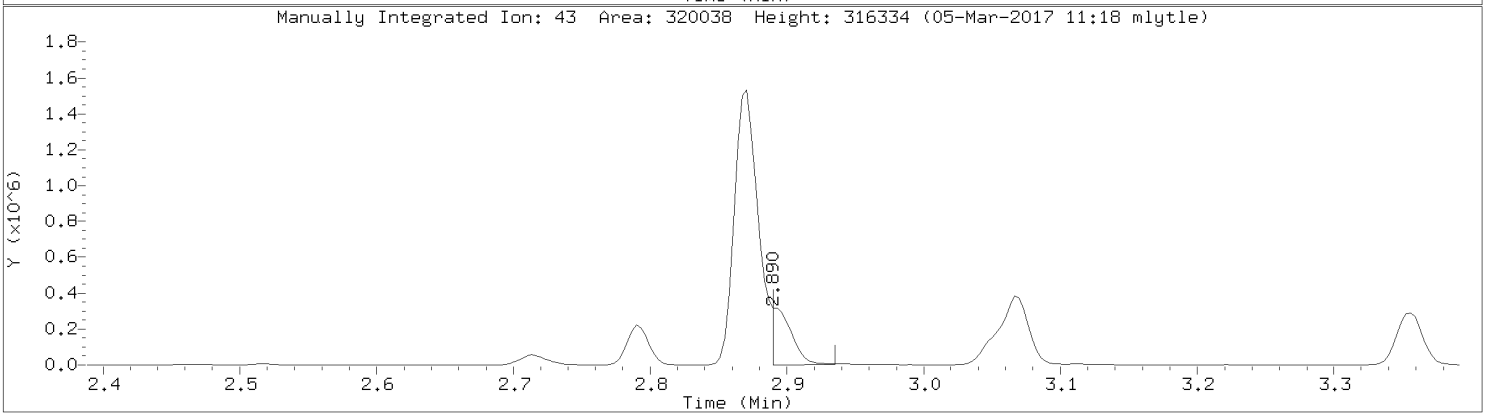
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



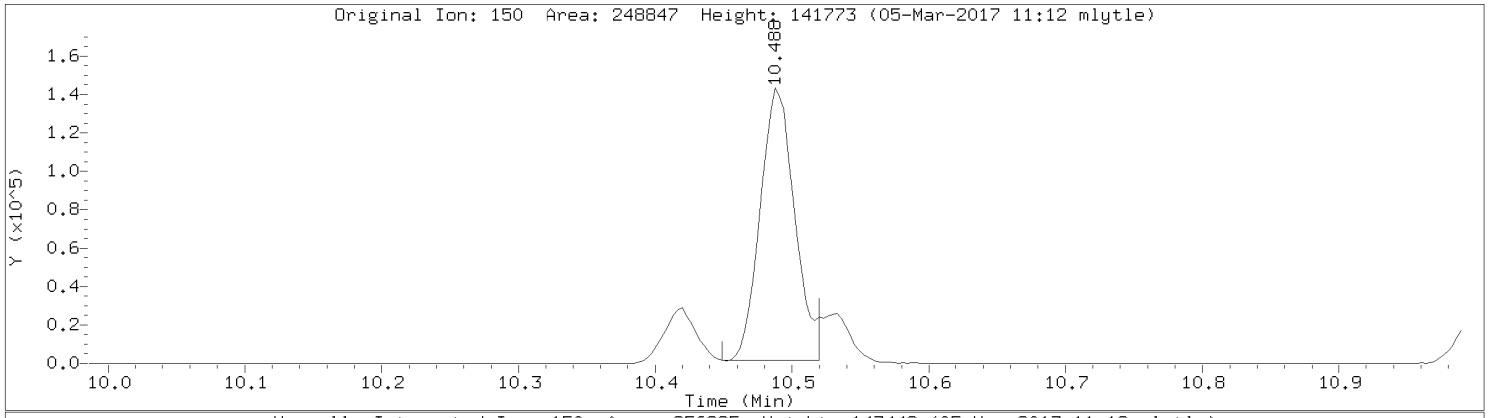


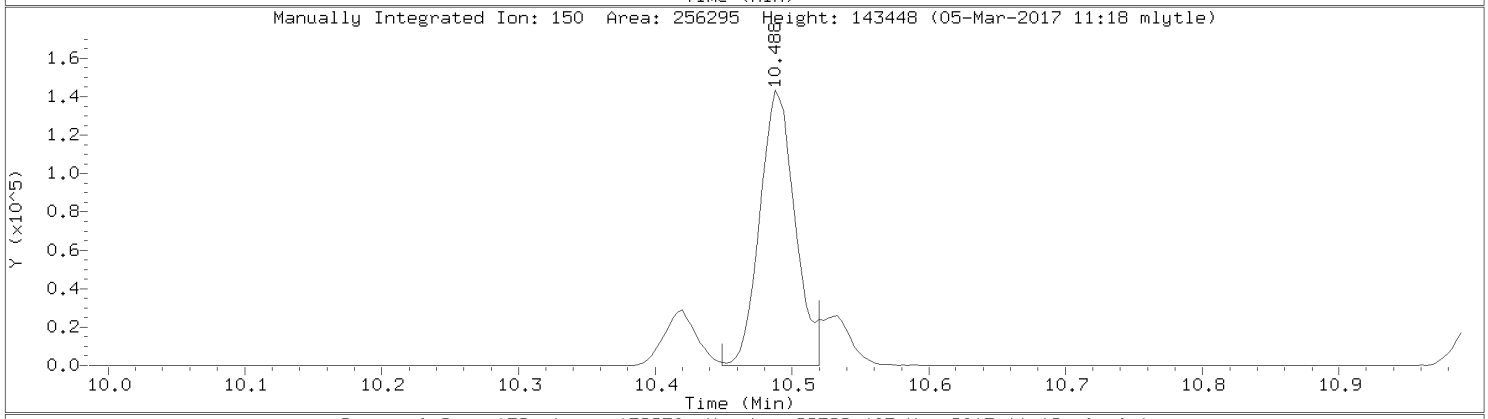


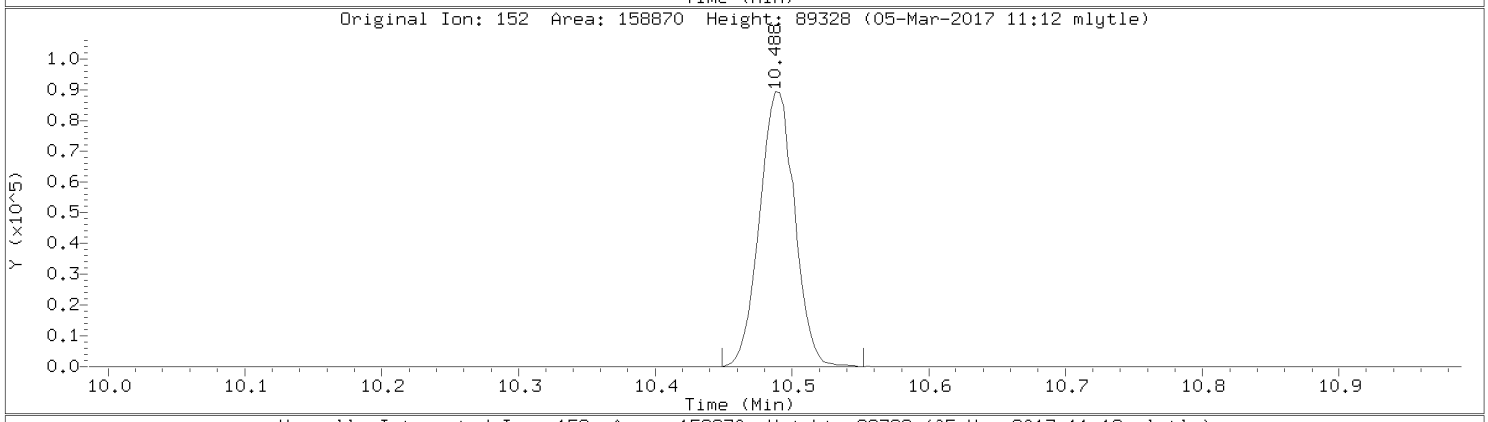


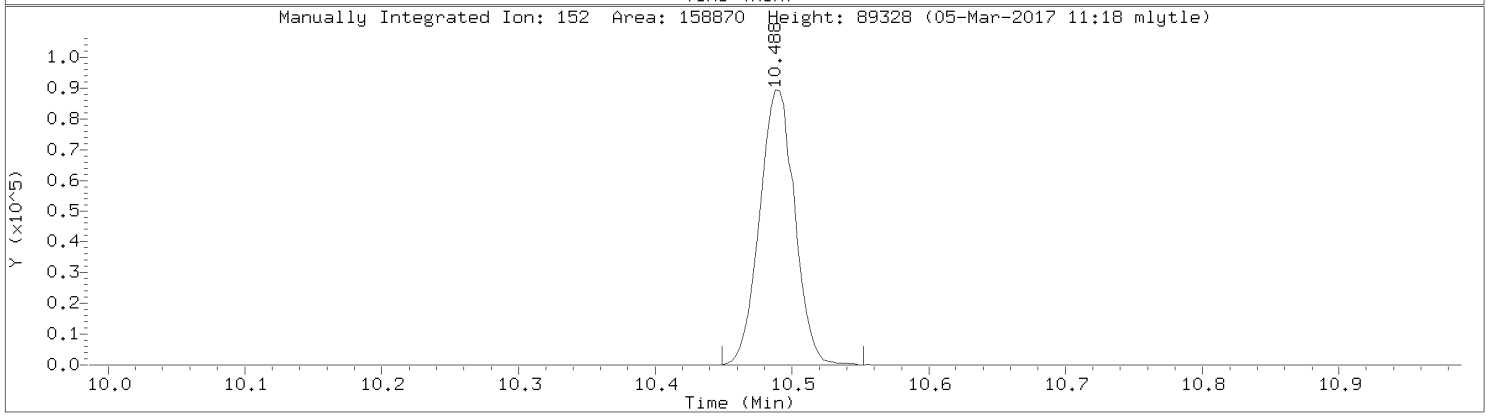
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-MAR-2017 07:37
Lab File ID: 06202.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	1 Chloropentafluoroethane	10.00000	11.54862	0.08525	0.010	15.48619	30.00000	Line	
	2 1,1-Difluoroethane	0.05863	0.06492	0.06492	0.010	10.74066	30.00000	Aver	
	3 Chlorodifluoromethane	10.00000	10.74138	0.03017	0.010	7.41376	30.00000	Line	
	4 Propylene	10.00000	10.17234	0.07516	0.010	1.72344	30.00000	Line	
	5 Dichlorodifluoromethane	10.00000	10.90508	0.30964	0.010	9.05078	30.00000	Line	
	6 Chloromethane	0.11490	0.12145	0.12145	0.010	5.70047	30.00000	Aver	
	7 Dichlorotetrafluoroethane	0.27763	0.28941	0.28941	0.010	4.24564	30.00000	Aver	
	8 Vinyl chloride	0.09925	0.10484	0.10484	0.010	5.63351	30.00000	Aver	
	9 1,3-Butadiene	0.07229	0.07991	0.07991	0.010	10.55240	30.00000	Aver	
	10 Bromomethane	0.09182	0.09646	0.09646	0.010	5.05689	30.00000	Aver	
	11 Chloroethane	0.04564	0.04778	0.04778	0.010	4.68217	30.00000	Aver	
	12 Ethanol	0.03674	0.03981	0.03981	0.005	8.35455	30.00000	Aver	
	13 Vinyl Bromide	0.09511	0.10102	0.10102	0.010	6.21098	30.00000	Aver	
	14 Isopentane	10.00000	10.64107	0.10709	0.010	6.41072	30.00000	Line	
	15 Freon 123	10.00000	9.06287	0.09581	0.010	-9.37133	30.00000	Line	
	16 Trichlorofluoromethane	0.27416	0.27858	0.27858	0.010	1.61278	30.00000	Aver	
	17 Acrolein	25.00000	26.84183	0.04005	0.010	7.36733	30.00000	Quad	
	18 Acetone	0.15867	0.15211	0.15211	0.010	-4.13339	30.00000	Aver	
	19 Isopropyl Alcohol	0.16182	0.17542	0.17542	0.010	8.40504	30.00000	Aver	
	20 1,1-Dichloroethene	0.15945	0.16770	0.16770	0.010	5.17530	30.00000	Aver	
	21 Acrylonitrile	0.07332	0.08129	0.08129	0.010	10.88379	30.00000	Aver	
	22 Freon 113	0.20703	0.21271	0.21271	0.010	2.74338	30.00000	Aver	
	23 Methyl Acetate	0.24157	0.25239	0.25239	0.010	4.47749	30.00000	Aver	
	24 Tert Butyl Alcohol (TBA)	0.20802	0.22768	0.22768	0.010	9.45181	30.00000	Aver	
	25 Methylene chloride	0.11199	0.11212	0.11212	0.010	0.12000	30.00000	Aver	
	26 Allyl Chloride	25.00000	26.81978	0.04177	0.010	7.27911	30.00000	Quad	
	27 Carbon Disulfide	0.21091	0.24366	0.24366	0.010	15.52856	30.00000	Aver	
	28 trans-1,2-dichloroethene	0.08946	0.09842	0.09842	0.010	10.01242	30.00000	Aver	
	29 Methyl Tert Butyl Ether	0.25503	0.27016	0.27016	0.010	5.93461	30.00000	Aver	
	30 Vinyl Acetate	10.00000	10.51618	0.28112	0.010	5.16177	30.00000	Quad	
	31 1,1-Dichloroethane	0.17426	0.18343	0.18343	0.010	5.26395	30.00000	Aver	
$	32 Hexane-d14(S)	0.31815	0.31702	0.31702	0.010	-0.35511	30.00000	Aver	
	33 Methyl Ethyl Ketone	10.00000	10.15576	0.04802	0.010	1.55758	30.00000	Line	
	34 n-Hexane	0.15946	0.16762	0.16762	0.010	5.11465	30.00000	Aver	(M)
	35 Di-isopropyl Ether	0.30926	0.32860	0.32860	0.010	6.25351	30.00000	Aver	
	36 Ethyl Acetate	0.20523	0.22041	0.22041	0.010	7.39292	30.00000	Aver	
	37 cis-1,2-Dichloroethene	0.09995	0.10782	0.10782	0.010	7.86476	30.00000	Aver	
	38 Ethyl Tert-Butyl Ether	0.32381	0.35513	0.35513	0.010	9.67241	30.00000	Aver	
	39 Chloroform	0.20717	0.22408	0.22408	0.010	8.16464	30.00000	Aver	
	40 Tetrahydrofuran	0.11074	0.11873	0.11873	0.010	7.22372	30.00000	Aver	
	41 1,1,1-Trichloroethane	0.24372	0.26244	0.26244	0.010	7.68034	30.00000	Aver	
	42 1,2-Dichloroethane	0.18489	0.19405	0.19405	0.010	4.95312	30.00000	Aver	

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-MAR-2017 07:37
Lab File ID: 06202.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	43 Benzene	0.32251	0.34901	0.34901	0.010	8.21607	30.00000	Aver	
	44 Carbon tetrachloride	0.24358	0.27636	0.27636	0.010	13.45773	30.00000	Aver	
	45 Cyclohexane	0.16145	0.16942	0.16942	0.010	4.93912	30.00000	Aver	
	46 Tert Amyl Methyl Ether	10.00000	10.80968	0.33968	0.010	8.09675	30.00000	Line	
	48 2,2,4-Trimethylpentane	0.49953	0.54220	0.54220	0.010	8.54137	30.00000	Aver	
	49 Heptane	0.18021	0.19586	0.19586	0.010	8.68818	30.00000	Aver	
	50 1,2-Dichloropropane	0.11682	0.12873	0.12873	0.010	10.19363	30.00000	Aver	
	51 Trichloroethene	0.16802	0.17989	0.17989	0.010	7.06587	30.00000	Aver	
	52 Methyl methacrylate	0.10928	0.12310	0.12310	0.010	12.64721	30.00000	Aver	
	53 1,4-Dioxane	0.07535	0.08562	0.08562	0.010	13.63391	30.00000	Aver	
	54 Bromodichloromethane	0.23808	0.26546	0.26546	0.010	11.50203	30.00000	Aver	
	55 Methylcyclohexane	10.00000	10.67362	0.09737	0.010	6.73620	30.00000	Quad	
	56 Methyl Isobutyl Ketone	0.24597	0.27485	0.27485	0.010	11.74106	30.00000	Aver	
	57 cis-1,3-Dichloropropene	10.00000	10.61103	0.21307	0.010	6.11032	30.00000	Line	
	58 trans-1,3-Dichloropropene	10.00000	10.75950	0.19910	0.010	7.59502	30.00000	Quad	
$	59 Toluene-d8 (S)	0.89503	0.89760	0.89760	0.010	0.28745	30.00000	Aver	
	60 1,1,2-Trichloroethane	0.13412	0.14419	0.14419	0.010	7.50861	30.00000	Aver	
	61 Toluene	0.40388	0.43617	0.43617	0.010	7.99399	30.00000	Aver	
	62 Methyl Butyl Ketone	0.31584	0.37292	0.37292	0.010	18.07355	30.00000	Aver	
	63 n-Octane	0.34204	0.39047	0.39047	0.010	14.15726	30.00000	Aver	
	64 Dibromochloromethane	10.00000	10.70123	0.42196	0.010	7.01228	30.00000	Line	
	65 1,2-Dibromoethane	0.32276	0.35780	0.35780	0.010	10.85656	30.00000	Aver	
	66 Tetrachloroethene	0.34724	0.36087	0.36087	0.010	3.92454	30.00000	Aver	
	68 Chlorobenzene	0.49598	0.53619	0.53619	0.010	8.10633	30.00000	Aver	
	69 Ethyl Benzene	0.73550	0.83896	0.83896	0.010	14.06610	30.00000	Aver	
	70 m&p-Xylene	0.57729	0.64545	0.64545	0.010	11.80850	30.00000	Aver	
	71 n-Nonane	0.29775	0.36480	0.36480	0.010	22.51874	30.00000	Aver	
	72 Bromoform	10.00000	10.50451	0.39852	0.010	5.04512	30.00000	Quad	
	73 Styrene	10.00000	10.38444	0.50642	0.010	3.84443	30.00000	Quad	
	74 o-Xylene	0.58731	0.66176	0.66176	0.010	12.67765	30.00000	Aver	
	75 1,1,2,2-Tetrachloroethane	0.32362	0.38323	0.38323	0.010	18.41972	30.00000	Aver	
	76 Isopropylbenzene	0.83122	0.90730	0.90730	0.010	9.15317	30.00000	Aver	
	77 N-Propylbenzene	10.00000	10.75312	1.01144	0.010	7.53119	30.00000	Line	
	78 4-Ethyltoluene	10.00000	10.45537	0.89200	0.010	4.55367	30.00000	Quad	
	79 1,3,5-Trimethylbenzene	10.00000	10.83847	0.76363	0.010	8.38468	30.00000	Line	
	80 n-Decane	10.00000	10.44582	0.26714	0.010	4.45817	30.00000	Line	
	81 Tert-Butyl Benzene	0.66403	0.77879	0.77879	0.010	17.28319	30.00000	Aver	
	82 1,2,4-Trimethylbenzene	0.59403	0.71562	0.71562	0.010	20.46765	30.00000	Aver	
	83 1,3-Dichlorobenzene	10.00000	10.65839	0.44991	0.010	6.58386	30.00000	Line	
	84 Sec- Butylbenzene	0.83200	0.99373	0.99373	0.010	19.43897	30.00000	Aver	
$	85 1,4-dichlorobenzene-d4 (S)	0.55087	0.60501	0.60501	0.010	9.82925	30.00000	Aver	(M)
	86 Benzyl Chloride	10.00000	10.59681	0.47801	0.010	5.96808	30.00000	Quad	

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-MAR-2017 07:37
Lab File ID: 06202.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.45056	0.45056	0.010	15.78081	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.80557	0.85830	0.010	8.05571	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.69020	0.69020	0.010	17.68487	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.22602	0.41958	0.010	2.26017	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.73701	0.65463	0.010	7.37013	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.21730	0.16283	0.010	2.17303	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.04763	0.15187	0.010	-9.52372	30.00000	Quad	
94 Naphthalene	10.00000	8.87571	0.35684	0.010	-11.24294	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.17009	0.17009	0.010	-1.97718	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 8.33981
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Lab Smp Id: CCV
Inj Date : 03-MAR-2017 07:37
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Meth Date : 03-Mar-2017 07:53 mschmitz Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.931	2.931	(0.523)	121137	10.0000	11.5
2	1,1-Difluoroethane	65	3.005	3.005	(0.536)	92251	10.0000	11.1
3	Chlorodifluoromethane	67	3.015	3.015	(0.537)	42875	10.0000	10.7
4	Propylene	41	3.011	3.011	(0.537)	106794	10.0000	10.2
5	Dichlorodifluoromethane	85	3.050	3.050	(0.544)	439973	10.0000	10.9
6	Chloromethane	50	3.146	3.146	(0.561)	172563	10.0000	10.6
7	Dichlorotetrafluoroethane	85	3.156	3.156	(0.563)	411232	10.0000	10.4
8	Vinyl chloride	62	3.227	3.227	(0.575)	148975	10.0000	10.6
9	1,3-Butadiene	54	3.269	3.269	(0.583)	113552	10.0000	11.1
10	Bromomethane	94	3.404	3.404	(0.607)	137067	10.0000	10.5
11	Chloroethane	64	3.458	3.458	(0.617)	67887	10.0000	10.5
12	Ethanol	45	3.542	3.542	(0.631)	282859	50.0000	54.2
13	Vinyl Bromide	106	3.574	3.574	(0.637)	143534	10.0000	10.6
14	Isopentane	43	3.593	3.593	(0.641)	152170	10.0000	10.6
15	Freon 123	83	3.597	3.597	(0.641)	136138	10.0000	9.06
16	Trichlorofluoromethane	101	3.671	3.671	(0.654)	395836	10.0000	10.2
17	Acrolein	56	3.680	3.680	(0.656)	142263	25.0000	26.8
18	Acetone	43	3.719	3.719	(0.663)	1080655	50.0000	47.9
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	1246266	50.0000	54.2
20	1,1-Dichloroethene	61	3.905	3.905	(0.696)	238283	10.0000	10.5
21	Acrylonitrile	53	3.925	3.925	(0.700)	288782	25.0000	27.7
22	Freon 113	101	3.944	3.944	(0.703)	302241	10.0000	10.3
23	Methyl Acetate	43	3.957	3.957	(0.705)	358618	10.0000	10.4

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.705)	808777	25.0000	27.4
	25 Methylene chloride	49	4.002	4.002	(0.713)	796575	50.0000	50.1
	26 Allyl Chloride	76	4.018	4.018	(0.716)	148374	25.0000	26.8
	27 Carbon Disulfide	76	4.121	4.121	(0.735)	346216	10.0000	11.6
	28 trans-1,2-dichloroethene	96	4.272	4.272	(0.762)	139845	10.0000	11.0
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.767)	959692	25.0000	26.5
	30 Vinyl Acetate	43	4.388	4.388	(0.782)	399448	10.0000	10.5
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	260642	10.0000	10.5
$	32 Hexane-d14(S)	66	4.487	4.487	(0.800)	450463	10.0000	9.96
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	68228	10.0000	10.2
	34 n-Hexane	57	4.584	4.584	(0.817)	238173	10.0000	10.5(M)
	35 Di-isopropyl Ether	45	4.603	4.603	(0.821)	466914	10.0000	10.6
	36 Ethyl Acetate	43	4.716	4.716	(0.841)	313177	10.0000	10.7
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	153196	10.0000	10.8
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.861)	1261506	25.0000	27.4
	39 Chloroform	83	4.841	4.841	(0.863)	318405	10.0000	10.8
	40 Tetrahydrofuran	42	4.992	4.992	(0.890)	168712	10.0000	10.7
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	372907	10.0000	10.8
	42 1,2-Dichloroethane	62	5.236	5.236	(0.934)	275722	10.0000	10.5
	43 Benzene	78	5.465	5.465	(0.974)	495906	10.0000	10.8
	44 Carbon tetrachloride	117	5.484	5.484	(0.978)	392677	10.0000	11.3
	45 Cyclohexane	56	5.487	5.487	(0.978)	240730	10.0000	10.5
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.999)	482653	10.0000	10.8
*	47 1,4-Difluorobenzene	114	5.609	5.609	(1.000)	1420913	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.029)	1926043	25.0000	27.1
	49 Heptane	43	5.889	5.889	(1.050)	278305	10.0000	10.9
	50 1,2-Dichloropropane	63	5.963	5.963	(1.063)	182912	10.0000	11.0
	51 Trichloroethene	130	5.986	5.986	(1.067)	255609	10.0000	10.7
	52 Methyl methacrylate	69	6.043	6.043	(1.077)	174921	10.0000	11.3
	53 1,4-Dioxane	88	6.063	6.063	(1.081)	121661	10.0000	11.4
	54 Bromodichloromethane	83	6.085	6.085	(1.085)	377195	10.0000	11.2
	55 Methylcyclohexane	98	6.433	6.433	(1.147)	138361	10.0000	10.7
	56 Methyl Isobutyl Ketone	43	6.526	6.526	(1.163)	976356	25.0000	27.9
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	302754	10.0000	10.6
	58 trans-1,3-Dichloropropene	75	6.982	6.982	(1.245)	282902	10.0000	10.8
$	59 Toluene-d8 (S)	98	7.072	7.072	(1.261)	1275412	10.0000	10.0
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	204883	10.0000	10.8
	61 Toluene	91	7.153	7.153	(1.275)	619761	10.0000	10.8
	62 Methyl Butyl Ketone	43	7.371	7.371	(0.853)	900292	25.0000	29.5
	63 n-Octane	43	7.580	7.580	(0.877)	377062	10.0000	11.4
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	407476	10.0000	10.7
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	345515	10.0000	11.1
	66 Tetrachloroethene	166	7.982	7.982	(0.923)	348478	10.0000	10.4
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	965665	10.0000	
	68 Chlorobenzene	112	8.683	8.683	(1.004)	517776	10.0000	10.8
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	810156	10.0000	11.4
	70 m&p-Xylene	91	9.079	9.079	(1.050)	1246586	20.0000	22.4
	71 n-Nonane	43	9.468	9.468	(1.095)	352277	10.0000	12.3
	72 Bromoform	173	9.477	9.477	(1.096)	384835	10.0000	10.5
	73 Styrene	104	9.506	9.506	(1.100)	489032	10.0000	10.4
	74 o-Xylene	91	9.577	9.577	(1.108)	639042	10.0000	11.3
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	370075	10.0000	11.8
	76 Isopropylbenzene	105	10.159	10.159	(1.175)	876146	10.0000	10.9
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	976714	10.0000	10.8

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.911	10.911	(1.262)	861374	10.0000	10.5
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.272)	737411	10.0000	10.8
80	n-Decane	57	11.378	11.378	(2.028)	379580	10.0000	10.4
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	752052	10.0000	11.7
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	691048	10.0000	12.0
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	434465	10.0000	10.7
84	Sec- Butylbenzene	105	11.805	11.805	(1.366)	959614	10.0000	11.9
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	584239	10.0000	11.0(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	461602	10.0000	10.6
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	435086	10.0000	11.6
88	p-Isopropyltoluene	119	11.985	11.985	(1.386)	828826	10.0000	10.8
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	666500	10.0000	11.8
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	405174	10.0000	10.2
91	N-Butylbenzene	91	12.461	12.461	(1.441)	632158	10.0000	10.7
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	157236	10.0000	10.2
93	1,2,4-Trichlorobenzene	180	14.027	14.027	(1.623)	146653	10.0000	9.05
94	Naphthalene	128	14.156	14.156	(1.637)	344591	10.0000	8.88
95	Hexachlorobutadiene	225	14.390	14.390	(1.665)	164254	10.0000	9.80

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06202.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

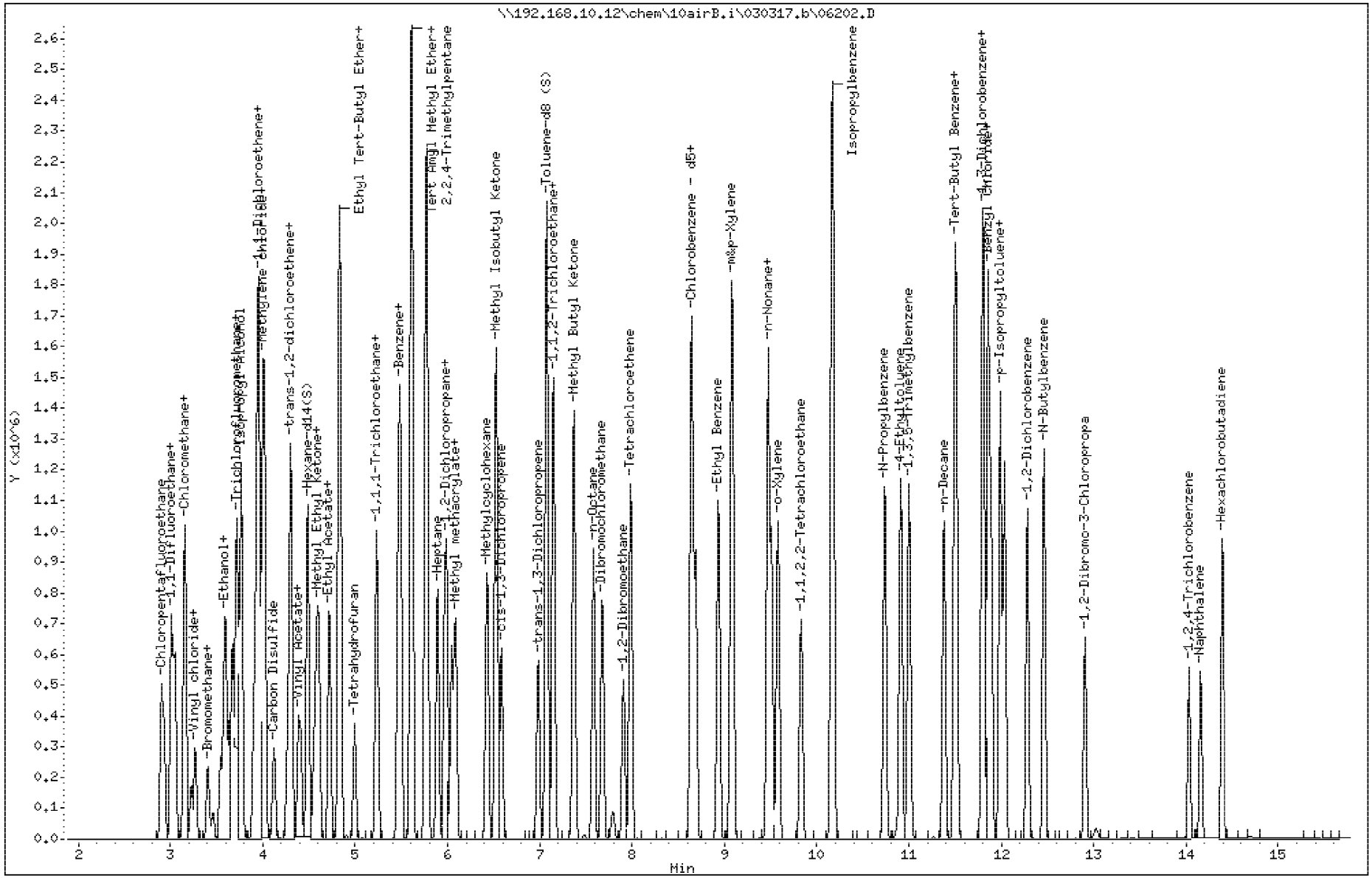
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1420913	0.48
67 Chlorobenzene - d	951026	570616	1331436	965665	1.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

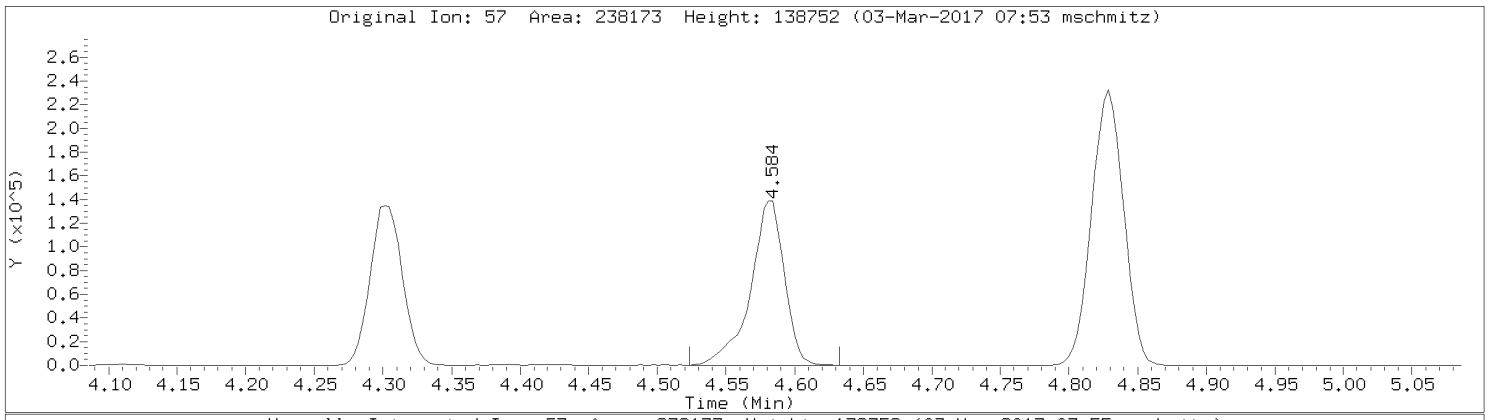
Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Date : 03-MAR-2017 07:37
Client ID:
Sample Info:

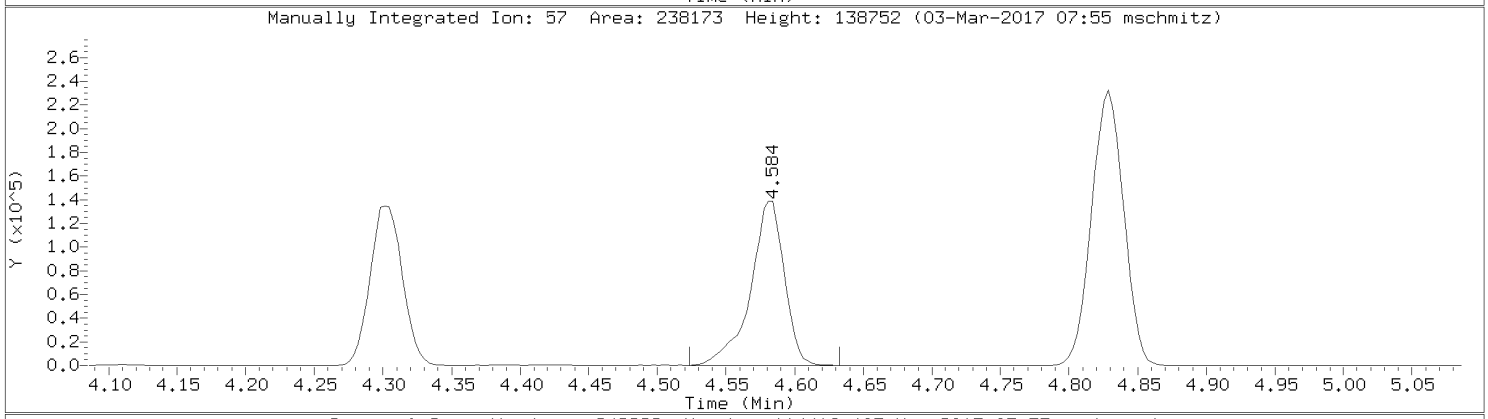
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

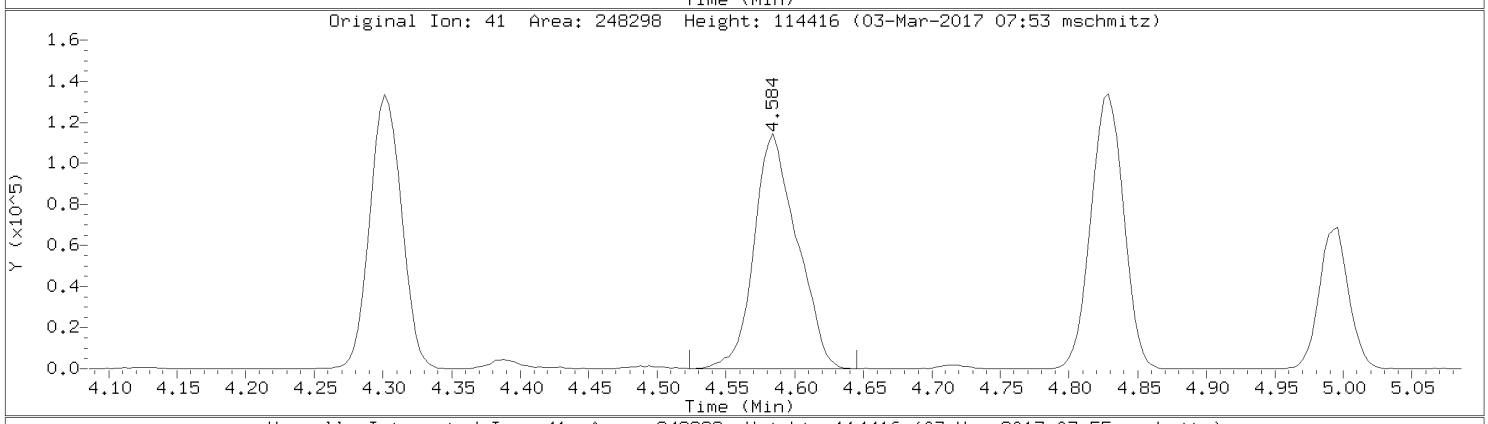


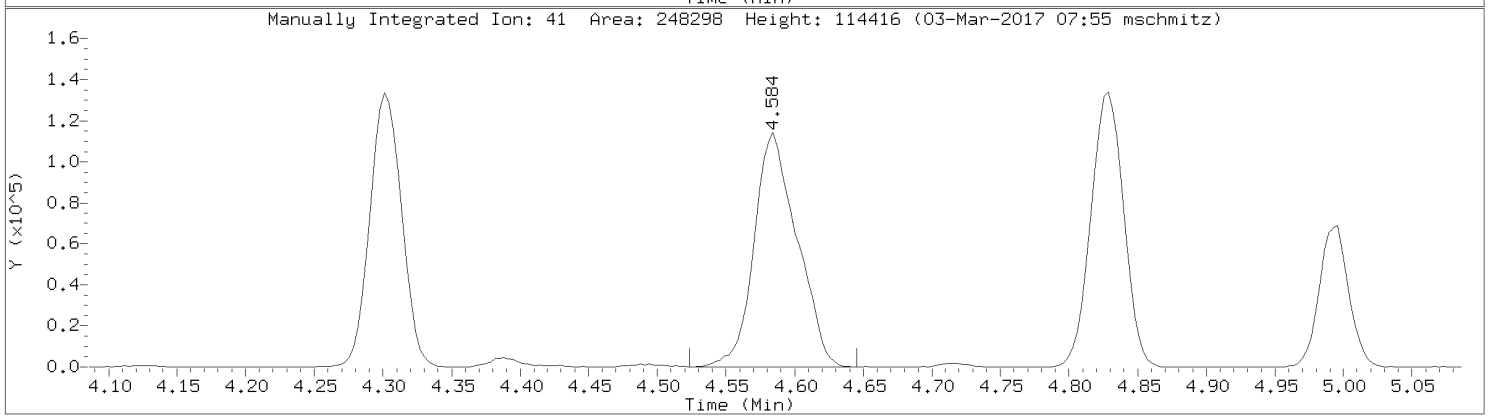
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06202.D
Injection Date: 03-MAR-2017 07:37
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

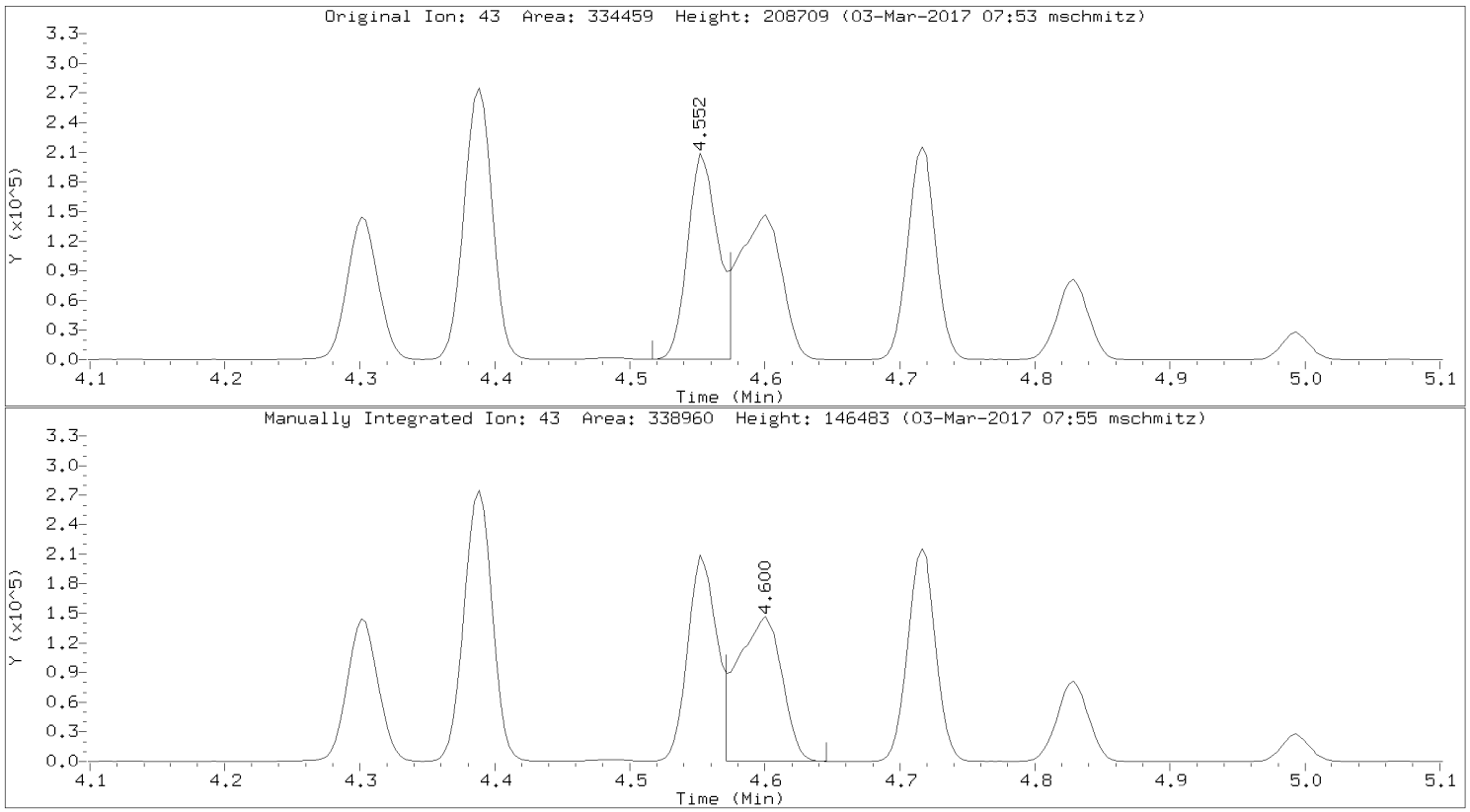






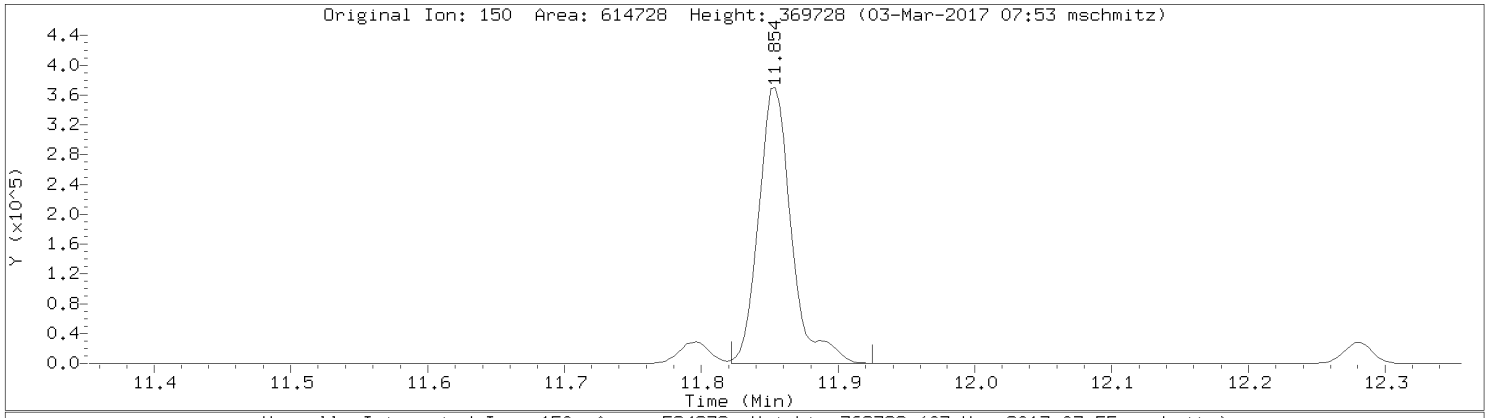


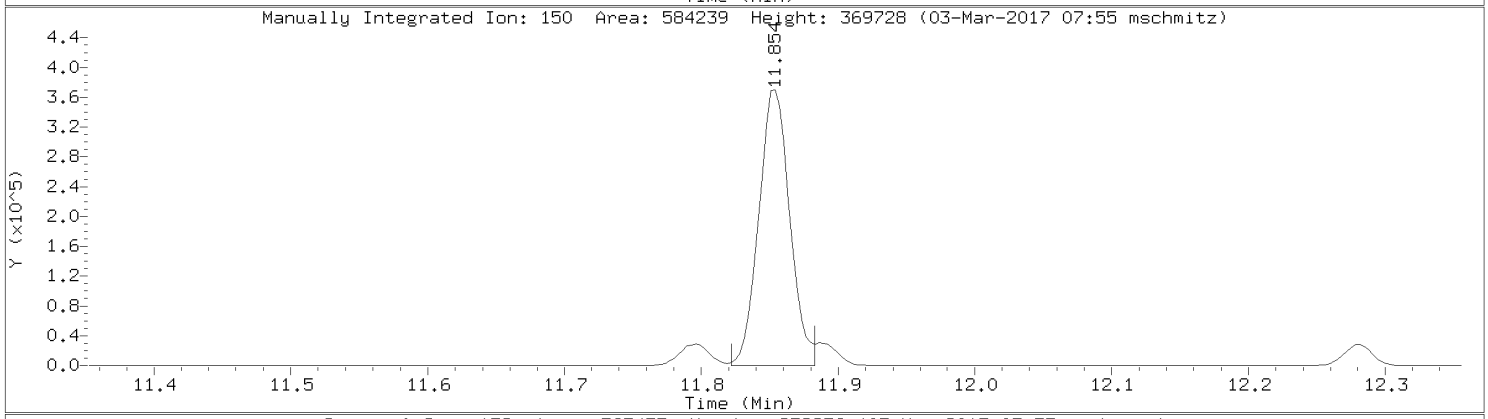
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06202.D
Injection Date: 03-MAR-2017 07:37
Instrument: 10airB.i
Lab Sample ID: CCV

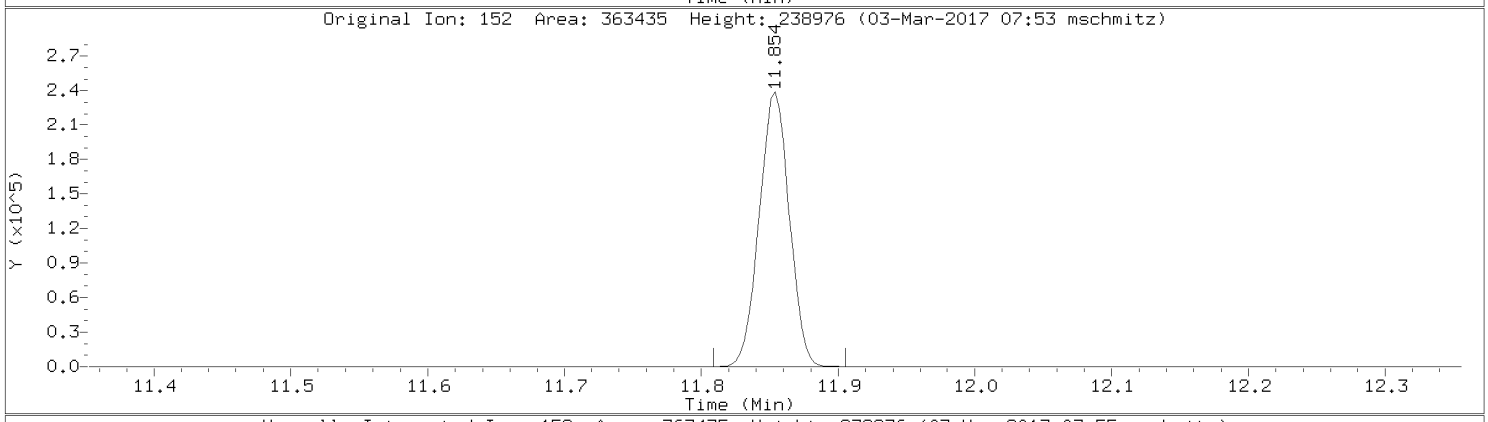


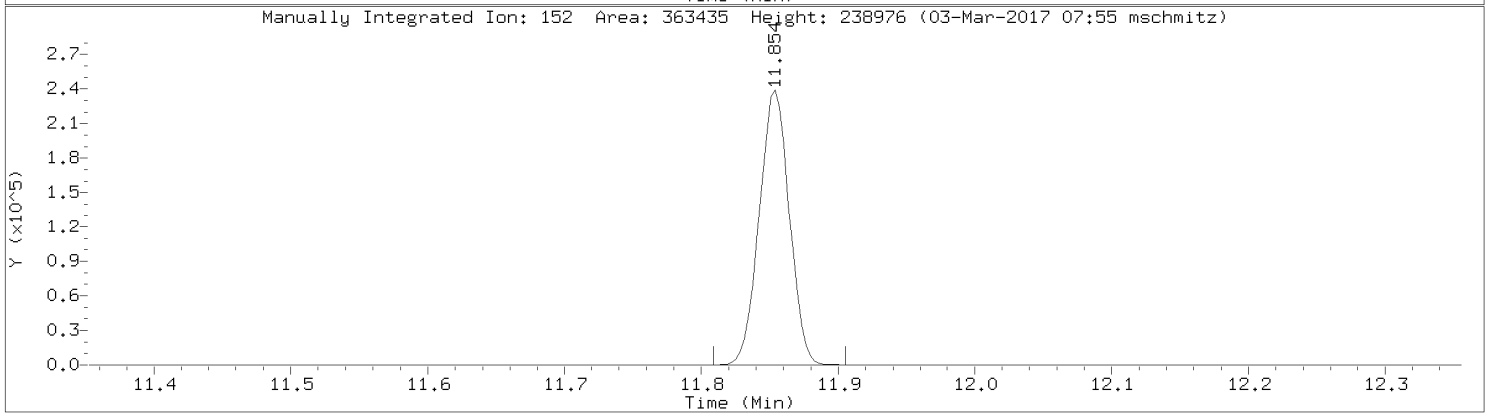
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06202.D
Injection Date: 03-MAR-2017 07:37
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	1 Chloropentafluoroethane	10.00000	7.05429	0.05173	0.010	-29.45712	30.00000	Line	
	2 1,1-Difluoroethane	0.05863	0.05567	0.05567	0.010	-5.04712	30.00000	Aver	
	3 Chlorodifluoromethane	10.00000	9.76930	0.02745	0.010	-2.30697	30.00000	Line	
	4 Propylene	10.00000	8.76125	0.06538	0.010	-12.38750	30.00000	Line	
	5 Dichlorodifluoromethane	10.00000	9.63088	0.27372	0.010	-3.69123	30.00000	Line	
	6 Chloromethane	0.11490	0.10764	0.10764	0.010	-6.31741	30.00000	Aver	
	7 Dichlorotetrafluoroethane	0.27763	0.25037	0.25037	0.010	-9.81846	30.00000	Aver	
	8 Vinyl chloride	0.09925	0.09587	0.09587	0.010	-3.40987	30.00000	Aver	
	9 1,3-Butadiene	0.07229	0.07193	0.07193	0.010	-0.49391	30.00000	Aver	
	10 Bromomethane	0.09182	0.08683	0.08683	0.010	-5.43471	30.00000	Aver	
	11 Chloroethane	0.04564	0.04299	0.04299	0.010	-5.80737	30.00000	Aver	
	12 Ethanol	0.03674	0.03225	0.03225	0.005	-12.24301	30.00000	Aver	
	13 Vinyl Bromide	0.09511	0.09076	0.09076	0.010	-4.57065	30.00000	Aver	
	14 Isopentane	10.00000	9.18981	0.09267	0.010	-8.10186	30.00000	Line	
	15 Freon 123	10.00000	8.64887	0.09147	0.010	-13.51129	30.00000	Line	
	16 Trichlorofluoromethane	0.27416	0.24677	0.24677	0.010	-9.98958	30.00000	Aver	
	17 Acrolein	25.00000	23.92617	0.03559	0.010	-4.29532	30.00000	Quad	
	18 Acetone	0.15867	0.13861	0.13861	0.010	-12.63812	30.00000	Aver	
	19 Isopropyl Alcohol	0.16182	0.14651	0.14651	0.010	-9.46195	30.00000	Aver	
	20 1,1-Dichloroethene	0.15945	0.15047	0.15047	0.010	-5.62958	30.00000	Aver	
	21 Acrylonitrile	0.07332	0.07348	0.07348	0.010	0.21860	30.00000	Aver	
	22 Freon 113	0.20703	0.18759	0.18759	0.010	-9.39054	30.00000	Aver	
	23 Methyl Acetate	0.24157	0.22621	0.22621	0.010	-6.35846	30.00000	Aver	
	24 Tert Butyl Alcohol (TBA)	0.20802	0.19252	0.19252	0.010	-7.45164	30.00000	Aver	
	25 Methylene chloride	0.11199	0.10193	0.10193	0.010	-8.97670	30.00000	Aver	
	26 Allyl Chloride	25.00000	23.90743	0.03735	0.010	-4.37027	30.00000	Quad	
	27 Carbon Disulfide	0.21091	0.21909	0.21909	0.010	3.88191	30.00000	Aver	
	28 trans-1,2-dichloroethene	0.08946	0.09051	0.09051	0.010	1.16931	30.00000	Aver	
	29 Methyl Tert Butyl Ether	0.25503	0.23748	0.23748	0.010	-6.87894	30.00000	Aver	
	30 Vinyl Acetate	10.00000	9.48893	0.25313	0.010	-5.11068	30.00000	Quad	
	31 1,1-Dichloroethane	0.17426	0.16835	0.16835	0.010	-3.38901	30.00000	Aver	
$	32 Hexane-d14(S)	0.31815	0.31891	0.31891	0.010	0.23647	30.00000	Aver	
	33 Methyl Ethyl Ketone	10.00000	9.06476	0.04282	0.010	-9.35239	30.00000	Line	
	34 n-Hexane	0.15946	0.14559	0.14559	0.010	-8.69964	30.00000	Aver	(M)
	35 Di-isopropyl Ether	0.30926	0.29225	0.29225	0.010	-5.50078	30.00000	Aver	
	36 Ethyl Acetate	0.20523	0.19272	0.19272	0.010	-6.09667	30.00000	Aver	
	37 cis-1,2-Dichloroethene	0.09995	0.09983	0.09983	0.010	-0.12823	30.00000	Aver	
	38 Ethyl Tert-Butyl Ether	0.32381	0.32027	0.32027	0.010	-1.09056	30.00000	Aver	
	39 Chloroform	0.20717	0.21285	0.21285	0.010	2.74026	30.00000	Aver	
	40 Tetrahydrofuran	0.11074	0.10148	0.10148	0.010	-8.35586	30.00000	Aver	
	41 1,1,1-Trichloroethane	0.24372	0.24155	0.24155	0.010	-0.89106	30.00000	Aver	
	42 1,2-Dichloroethane	0.18489	0.17705	0.17705	0.010	-4.23784	30.00000	Aver	

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

			CCAL	MIN		MAX	CURVE	QC
COMPOUND	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	TYPE	FLAGS
43 Benzene	0.32251	0.31269	0.31269	0.010	-3.04410	30.00000	Aver	
44 Carbon tetrachloride	0.24358	0.25634	0.25634	0.010	5.24060	30.00000	Aver	
45 Cyclohexane	0.16145	0.15446	0.15446	0.010	-4.32820	30.00000	Aver	
46 Tert Amyl Methyl Ether	10.00000	8.98553	0.28397	0.010	-10.14467	30.00000	Line	
48 2,2,4-Trimethylpentane	0.49953	0.48061	0.48061	0.010	-3.78821	30.00000	Aver	
49 Heptane	0.18021	0.17226	0.17226	0.010	-4.40830	30.00000	Aver	
50 1,2-Dichloropropane	0.11682	0.11156	0.11156	0.010	-4.50083	30.00000	Aver	
51 Trichloroethene	0.16802	0.15911	0.15911	0.010	-5.30264	30.00000	Aver	
52 Methyl methacrylate	0.10928	0.10650	0.10650	0.010	-2.54268	30.00000	Aver	
53 1,4-Dioxane	0.07535	0.07206	0.07206	0.010	-4.36020	30.00000	Aver	
54 Bromodichloromethane	0.23808	0.23859	0.23859	0.010	0.21720	30.00000	Aver	
55 Methylcyclohexane	10.00000	9.49897	0.08637	0.010	-5.01028	30.00000	Quad	
56 Methyl Isobutyl Ketone	0.24597	0.23410	0.23410	0.010	-4.82607	30.00000	Aver	
57 cis-1,3-Dichloropropene	10.00000	9.28812	0.18627	0.010	-7.11882	30.00000	Line	
58 trans-1,3-Dichloropropene	10.00000	9.53732	0.17582	0.010	-4.62676	30.00000	Quad	
$ 59 Toluene-d8 (S)	0.89503	0.88073	0.88073	0.010	-1.59730	30.00000	Aver	
60 1,1,2-Trichloroethane	0.13412	0.12485	0.12485	0.010	-6.91000	30.00000	Aver	
61 Toluene	0.40388	0.38120	0.38120	0.010	-5.61726	30.00000	Aver	
62 Methyl Butyl Ketone	0.31584	0.33934	0.33934	0.010	7.44255	30.00000	Aver	
63 n-Octane	0.34204	0.33040	0.33040	0.010	-3.40392	30.00000	Aver	
64 Dibromochloromethane	10.00000	9.43571	0.37185	0.010	-5.64294	30.00000	Line	
65 1,2-Dibromoethane	0.32276	0.31989	0.31989	0.010	-0.88819	30.00000	Aver	
66 Tetrachloroethene	0.34724	0.32219	0.32219	0.010	-7.21468	30.00000	Aver	
68 Chlorobenzene	0.49598	0.46419	0.46419	0.010	-6.40956	30.00000	Aver	
69 Ethyl Benzene	0.73550	0.72193	0.72193	0.010	-1.84564	30.00000	Aver	
70 m&p-Xylene	0.57729	0.56732	0.56732	0.010	-1.72668	30.00000	Aver	
71 n-Nonane	0.29775	0.33880	0.33880	0.010	13.78613	30.00000	Aver	
72 Bromoform	10.00000	9.47972	0.36093	0.010	-5.20276	30.00000	Quad	
73 Styrene	10.00000	9.35381	0.45776	0.010	-6.46192	30.00000	Quad	
74 o-Xylene	0.58731	0.57578	0.57578	0.010	-1.96298	30.00000	Aver	
75 1,1,2,2-Tetrachloroethane	0.32362	0.35360	0.35360	0.010	9.26358	30.00000	Aver	
76 Isopropylbenzene	0.83122	0.81838	0.81838	0.010	-1.54387	30.00000	Aver	
77 N-Propylbenzene	10.00000	10.09018	0.94894	0.010	0.90184	30.00000	Line	
78 4-Ethyltoluene	10.00000	9.85625	0.84233	0.010	-1.43752	30.00000	Quad	
79 1,3,5-Trimethylbenzene	10.00000	10.15160	0.71515	0.010	1.51597	30.00000	Line	
80 n-Decane	10.00000	9.83266	0.25109	0.010	-1.67342	30.00000	Line	
81 Tert-Butyl Benzene	0.66403	0.73826	0.73826	0.010	11.17866	30.00000	Aver	
82 1,2,4-Trimethylbenzene	0.59403	0.67259	0.67259	0.010	13.22483	30.00000	Aver	
83 1,3-Dichlorobenzene	10.00000	10.25865	0.43306	0.010	2.58654	30.00000	Line	
84 Sec- Butylbenzene	0.83200	0.93632	0.93632	0.010	12.53775	30.00000	Aver	
$ 85 1,4-dichlorobenzene-d4 (S)	0.55087	0.63106	0.63106	0.010	14.55769	30.00000	Aver	(M)
86 Benzyl Chloride	10.00000	9.94028	0.44754	0.010	-0.59720	30.00000	Quad	(M)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.43090	0.43090	0.010	10.72958	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.08742	0.80127	0.010	0.87418	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.65116	0.65116	0.010	11.02901	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	9.77420	0.40146	0.010	-2.25802	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.38389	0.63315	0.010	3.83887	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.32083	0.16451	0.010	3.20830	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.56191	0.16126	0.010	-4.38095	30.00000	Quad	
94 Naphthalene	10.00000	9.26310	0.37304	0.010	-7.36904	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.16834	0.16834	0.010	-2.98910	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 5.72480
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Lab Smp Id: CCV
Inj Date : 04-MAR-2017 06:56
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 04-Mar-2017 07:14 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.944	2.944	(0.525)	77827	10.0000	7.05
2	1,1-Difluoroethane	65	3.018	3.018	(0.538)	83759	10.0000	9.50
3	Chlorodifluoromethane	67	3.028	3.028	(0.539)	41308	10.0000	9.77
4	Propylene	41	3.028	3.028	(0.539)	98379	10.0000	8.76
5	Dichlorodifluoromethane	85	3.060	3.060	(0.545)	411848	10.0000	9.63
6	Chloromethane	50	3.156	3.156	(0.562)	161953	10.0000	9.37
7	Dichlorotetrafluoroethane	85	3.166	3.166	(0.564)	376709	10.0000	9.02
8	Vinyl chloride	62	3.234	3.234	(0.576)	144246	10.0000	9.66
9	1,3-Butadiene	54	3.275	3.275	(0.584)	108227	10.0000	9.95
10	Bromomethane	94	3.414	3.414	(0.608)	130647	10.0000	9.46
11	Chloroethane	64	3.465	3.465	(0.617)	64683	10.0000	9.42
12	Ethanol	45	3.545	3.545	(0.632)	242585	50.0000	43.9
13	Vinyl Bromide	106	3.581	3.581	(0.638)	136561	10.0000	9.54
14	Isopentane	43	3.600	3.600	(0.641)	139439	10.0000	9.19
15	Freon 123	83	3.603	3.603	(0.642)	137632	10.0000	8.65
16	Trichlorofluoromethane	101	3.674	3.674	(0.655)	371295	10.0000	9.00
17	Acrolein	56	3.684	3.684	(0.656)	133867	25.0000	23.9
18	Acetone	43	3.722	3.722	(0.663)	1042800	50.0000	43.7
19	Isopropyl Alcohol	45	3.767	3.767	(0.671)	1102178	50.0000	45.3
20	1,1-Dichloroethene	61	3.909	3.909	(0.696)	226399	10.0000	9.44
21	Acrylonitrile	53	3.928	3.928	(0.700)	276382	25.0000	25.1
22	Freon 113	101	3.951	3.951	(0.704)	282249	10.0000	9.06
23	Methyl Acetate	43	3.960	3.960	(0.706)	340359	10.0000	9.36

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.957	(0.705)	724159	25.0000	23.1
	25 Methylene chloride	49	4.005	4.005	(0.714)	766863	50.0000	45.5
	26 Allyl Chloride	76	4.018	4.018	(0.716)	140500	25.0000	23.9
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	329653	10.0000	10.4
	28 trans-1,2-dichloroethene	96	4.275	4.275	(0.762)	136180	10.0000	10.1
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	893308	25.0000	23.3
	30 Vinyl Acetate	43	4.391	4.391	(0.782)	380868	10.0000	9.49
	31 1,1-Dichloroethane	63	4.414	4.414	(0.786)	253309	10.0000	9.66
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	479832	10.0000	10.0
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	64430	10.0000	9.06
	34 n-Hexane	57	4.584	4.584	(0.817)	219059	10.0000	9.13(M)
	35 Di-isopropyl Ether	45	4.606	4.606	(0.821)	439725	10.0000	9.45
	36 Ethyl Acetate	43	4.716	4.716	(0.840)	289971	10.0000	9.39
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	150200	10.0000	9.99
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	1204728	25.0000	24.7
	39 Chloroform	83	4.841	4.841	(0.863)	320254	10.0000	10.3
	40 Tetrahydrofuran	42	4.992	4.992	(0.889)	152693	10.0000	9.16
	41 1,1,1-Trichloroethane	97	5.233	5.233	(0.932)	363443	10.0000	9.91
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	266397	10.0000	9.58
	43 Benzene	78	5.468	5.468	(0.974)	470480	10.0000	9.70
	44 Carbon tetrachloride	117	5.484	5.484	(0.977)	385695	10.0000	10.5
	45 Cyclohexane	56	5.487	5.487	(0.978)	232400	10.0000	9.57
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	427267	10.0000	8.99
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1504620	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.028)	1807833	25.0000	24.1
	49 Heptane	43	5.893	5.893	(1.050)	259190	10.0000	9.56
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	167859	10.0000	9.55
	51 Trichloroethene	130	5.989	5.989	(1.067)	239399	10.0000	9.47
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	160249	10.0000	9.75
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	108428	10.0000	9.56
	54 Bromodichloromethane	83	6.085	6.085	(1.084)	358992	10.0000	10.0
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	129952	10.0000	9.50
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	880588	25.0000	23.8
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	280260	10.0000	9.29
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	264547	10.0000	9.54
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1325166	10.0000	9.84
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	187856	10.0000	9.31
	61 Toluene	91	7.153	7.153	(1.274)	573557	10.0000	9.44
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	861770	25.0000	26.9
	63 n-Octane	43	7.584	7.584	(0.877)	335624	10.0000	9.66
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	377732	10.0000	9.44
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	324949	10.0000	9.91
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	327281	10.0000	9.28
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1015806	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	471527	10.0000	9.36
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	733341	10.0000	9.82
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1152570	20.0000	19.7
	71 n-Nonane	43	9.468	9.468	(1.095)	344156	10.0000	11.4
	72 Bromoform	173	9.478	9.478	(1.096)	366636	10.0000	9.48
	73 Styrene	104	9.507	9.507	(1.100)	464994	10.0000	9.35
	74 o-Xylene	91	9.581	9.581	(1.108)	584879	10.0000	9.80
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	359191	10.0000	10.9
	76 Isopropylbenzene	105	10.159	10.159	(1.175)	831318	10.0000	9.85
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	963936	10.0000	10.1

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	855640	10.0000	9.86
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	726458	10.0000	10.2
80	n-Decane	57	11.378	11.378	(2.027)	377800	10.0000	9.83
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	749925	10.0000	11.1
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	683225	10.0000	11.3
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	439900	10.0000	10.3
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	951115	10.0000	11.3
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	641034	10.0000	11.5(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	454614	10.0000	9.94(M)
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	437710	10.0000	11.1
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	813938	10.0000	10.1
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	661455	10.0000	11.1
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.420)	407802	10.0000	9.77
91	N-Butylbenzene	91	12.458	12.458	(1.441)	643158	10.0000	10.4
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	167109	10.0000	10.3
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.623)	163806	10.0000	9.56
94	Naphthalene	128	14.156	14.156	(1.637)	378936	10.0000	9.26
95	Hexachlorobutadiene	225	14.391	14.391	(1.665)	170999	10.0000	9.70

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06302.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info:

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

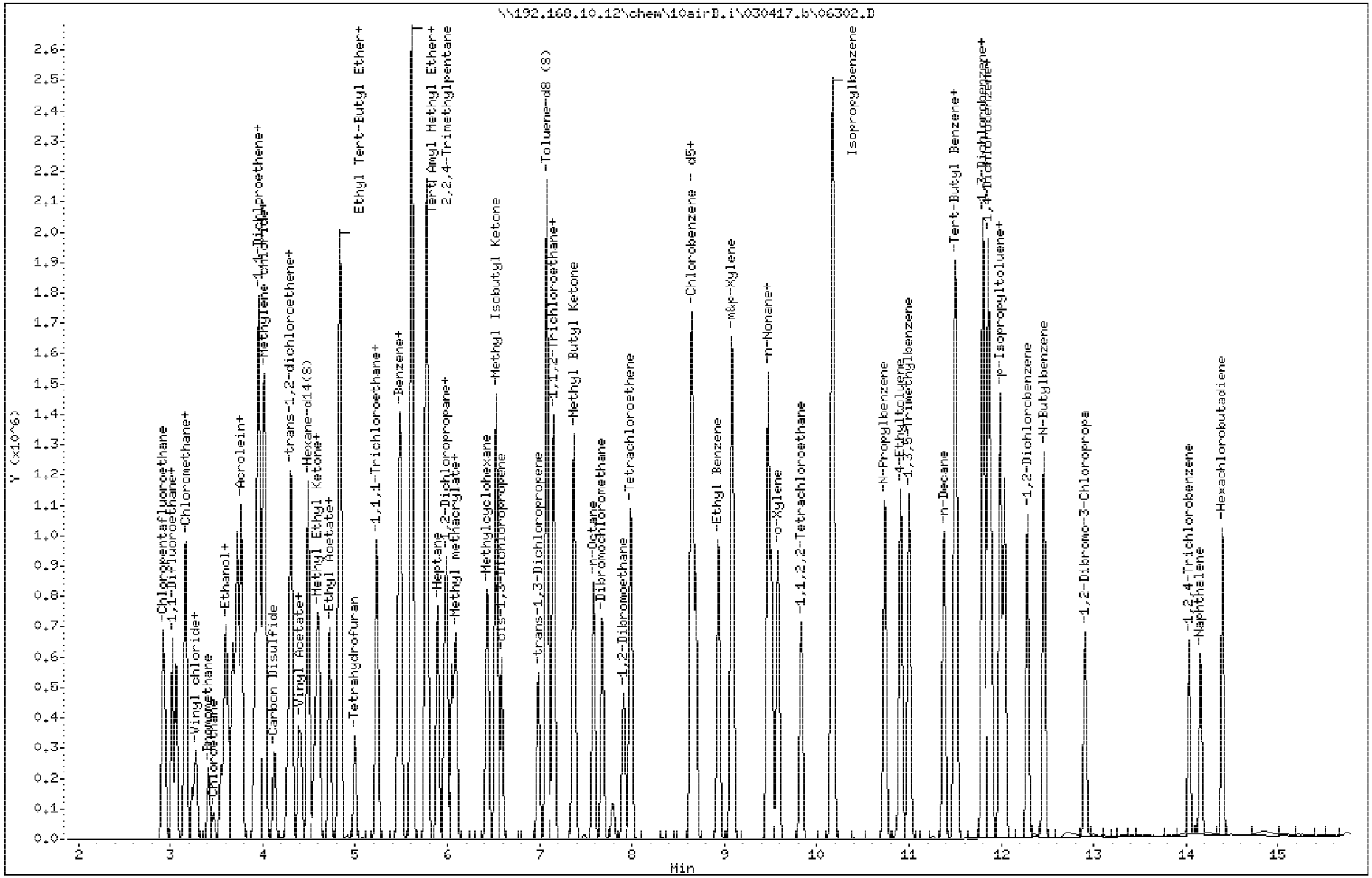
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1504620	6.40
67 Chlorobenzene - d	951026	570616	1331436	1015806	6.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

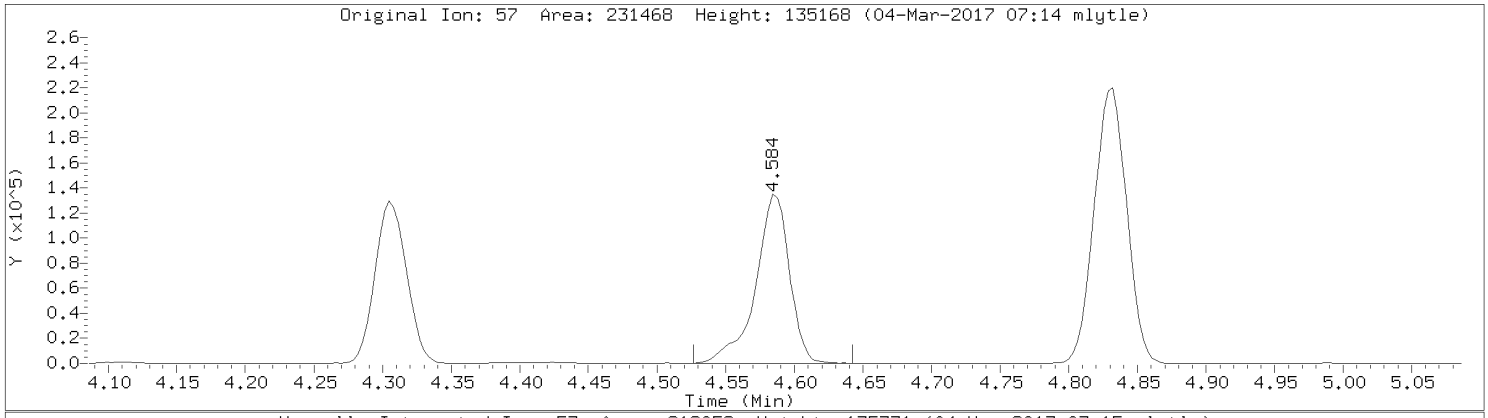
Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Date : 04-MAR-2017 06:56
Client ID:
Sample Info:

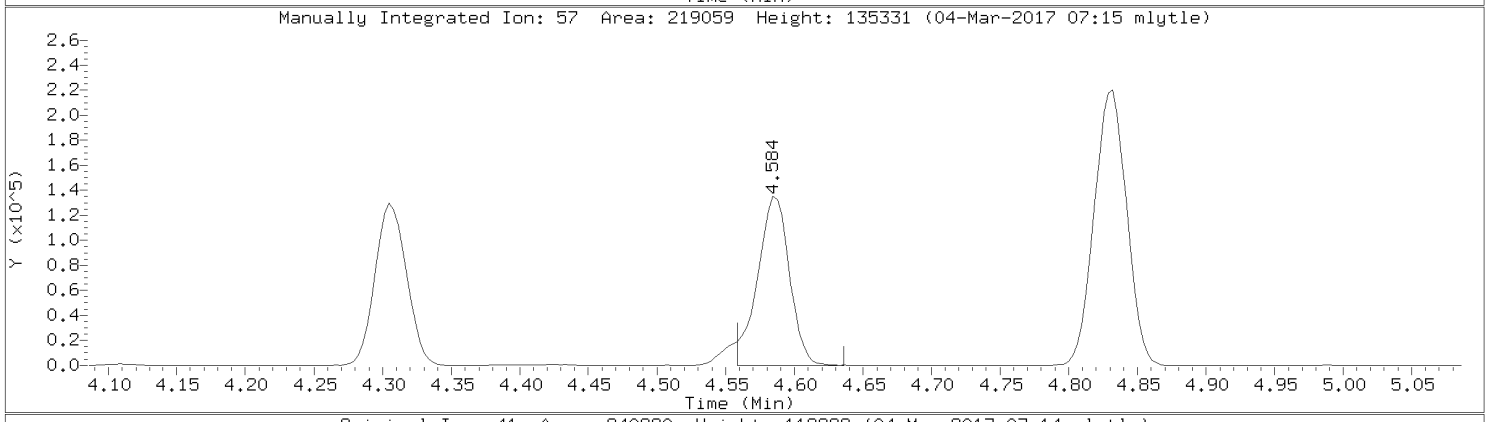
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

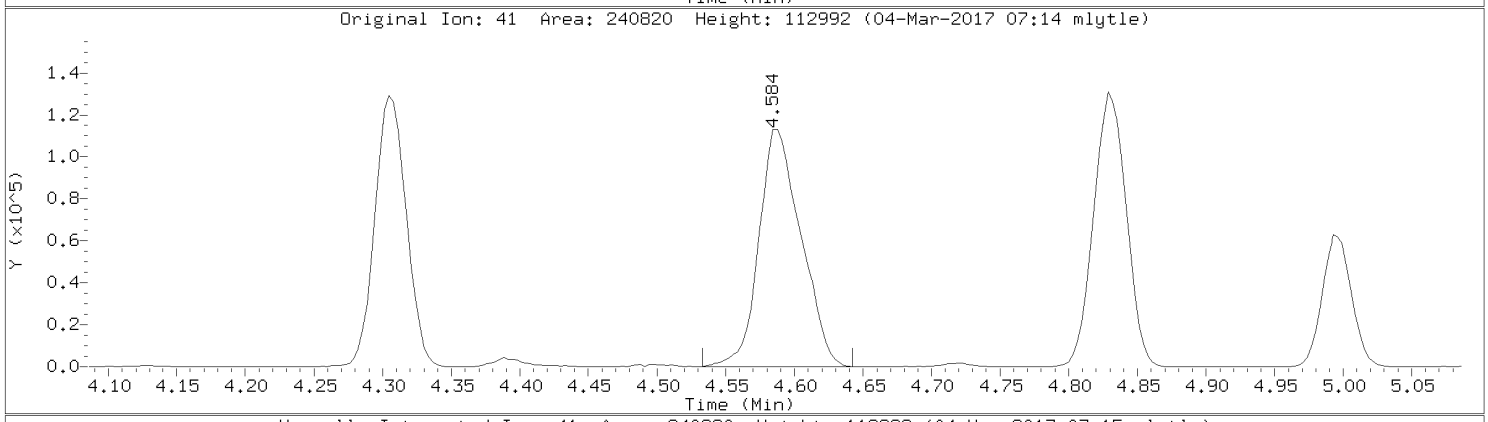


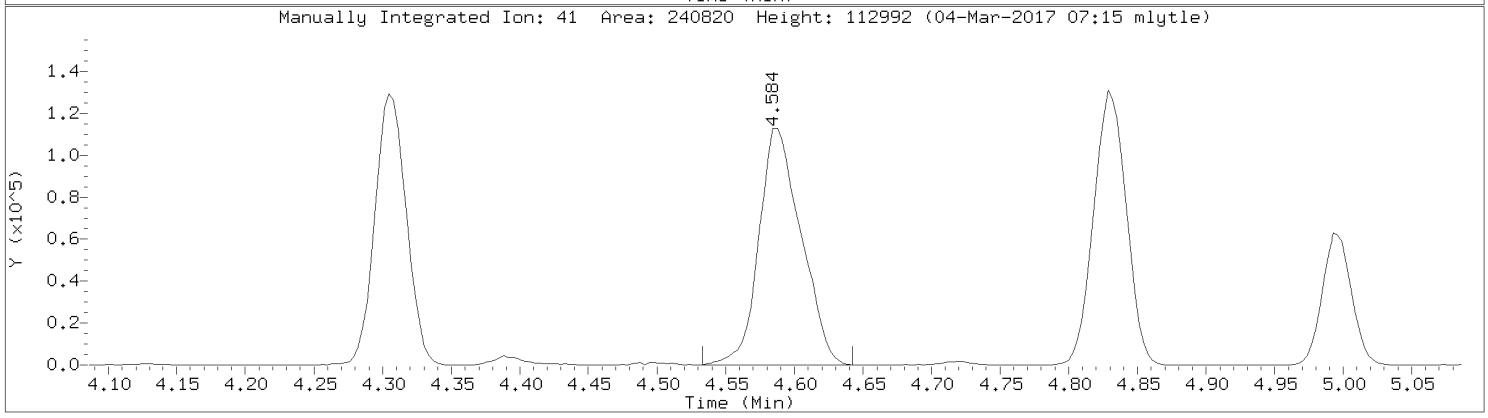
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

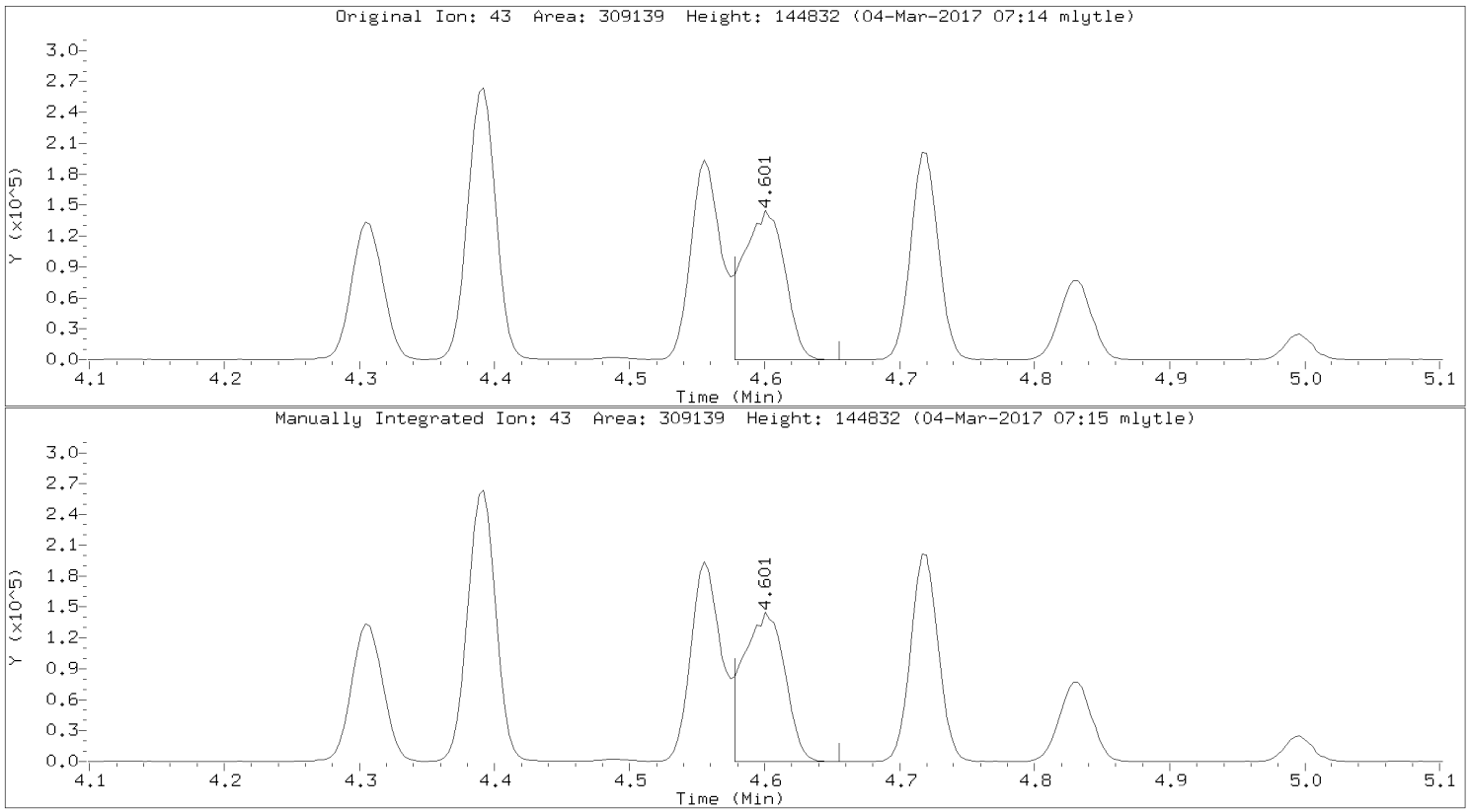






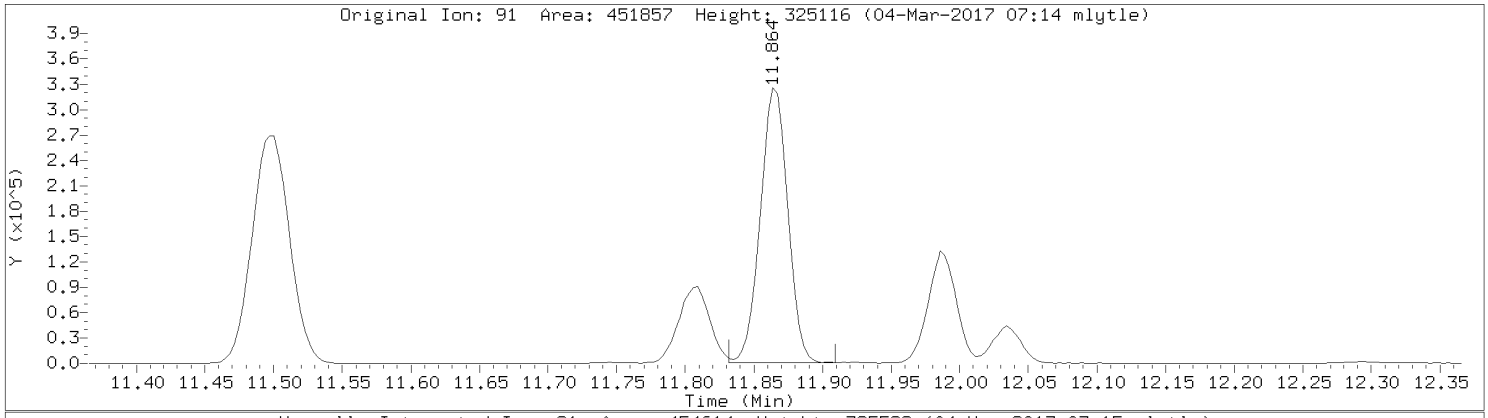


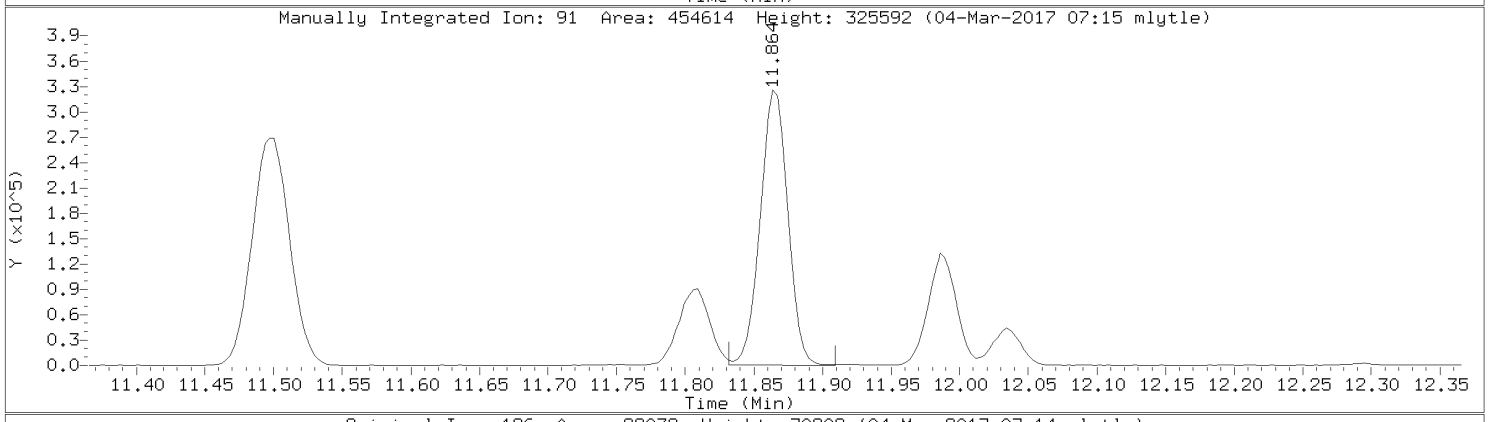
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

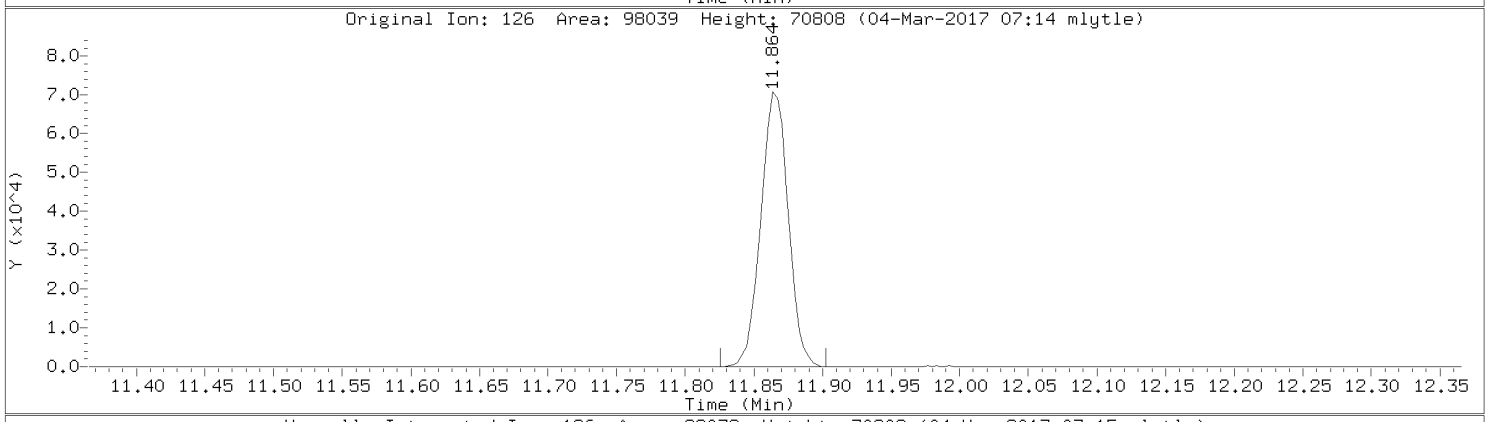


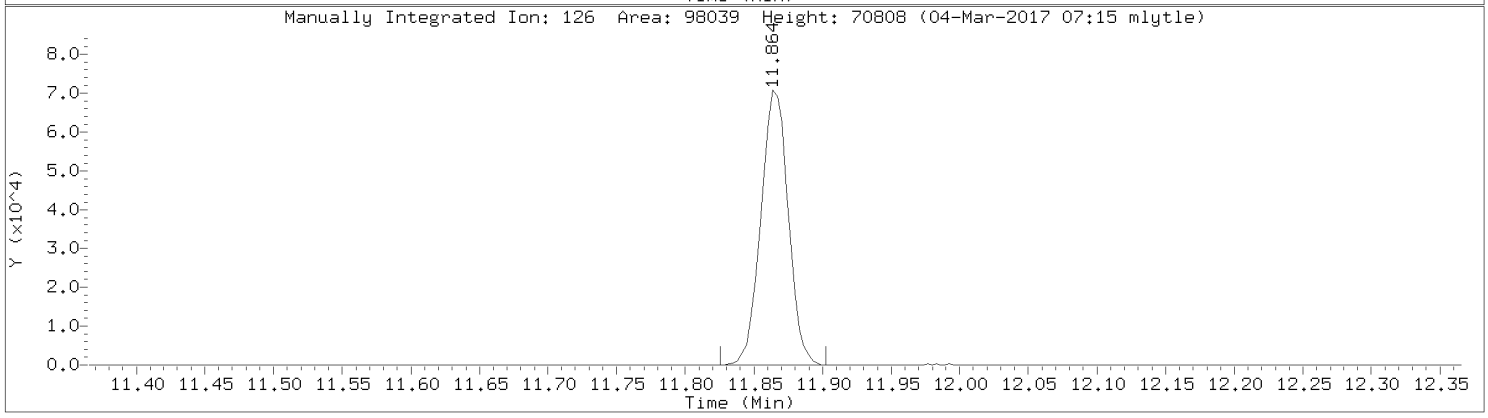
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: Benzyl Chloride
CAS Number: 100-44-7



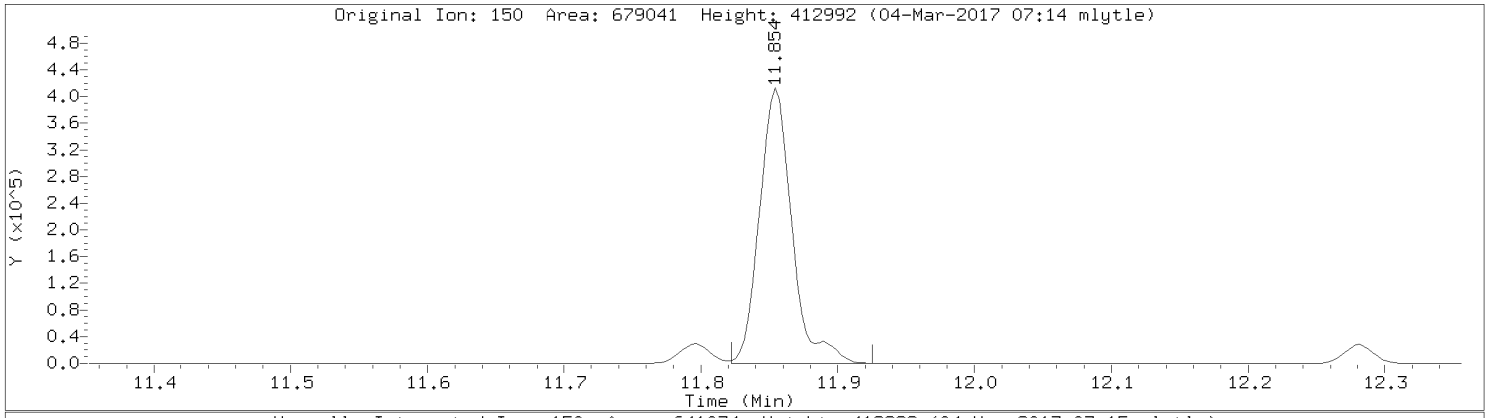


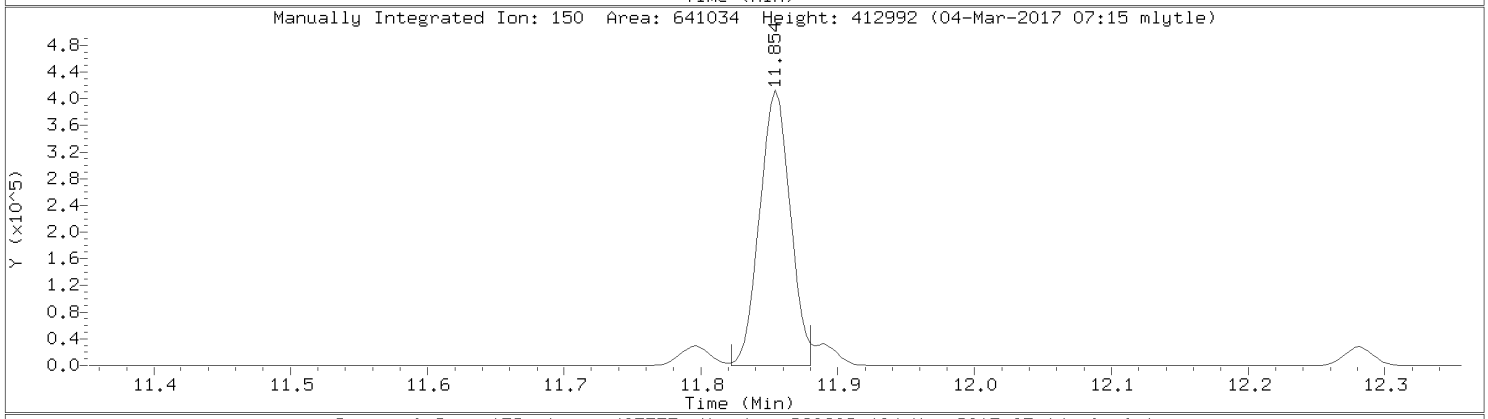


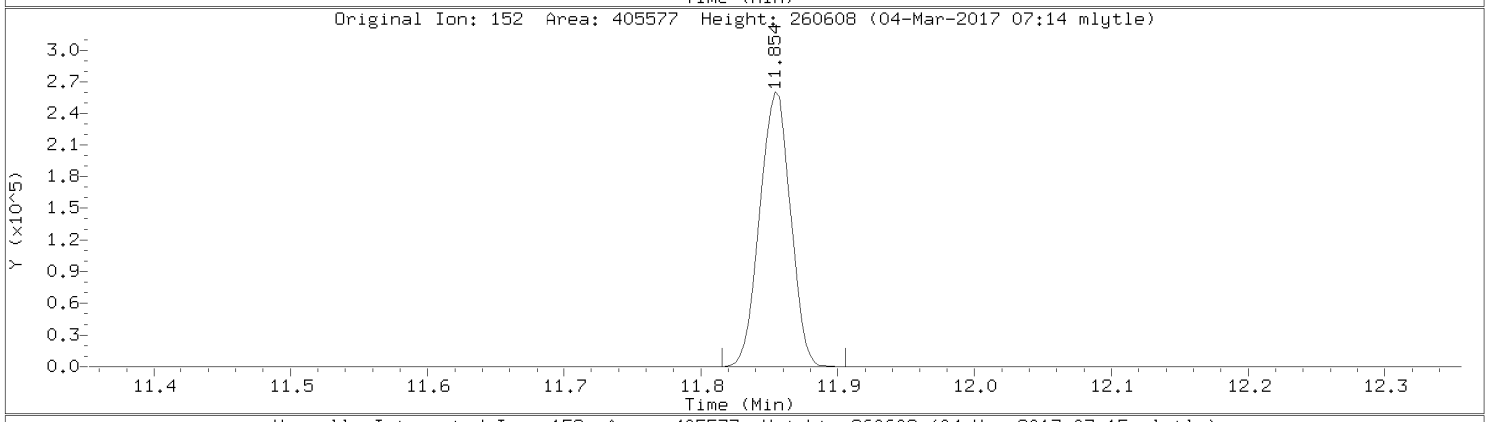


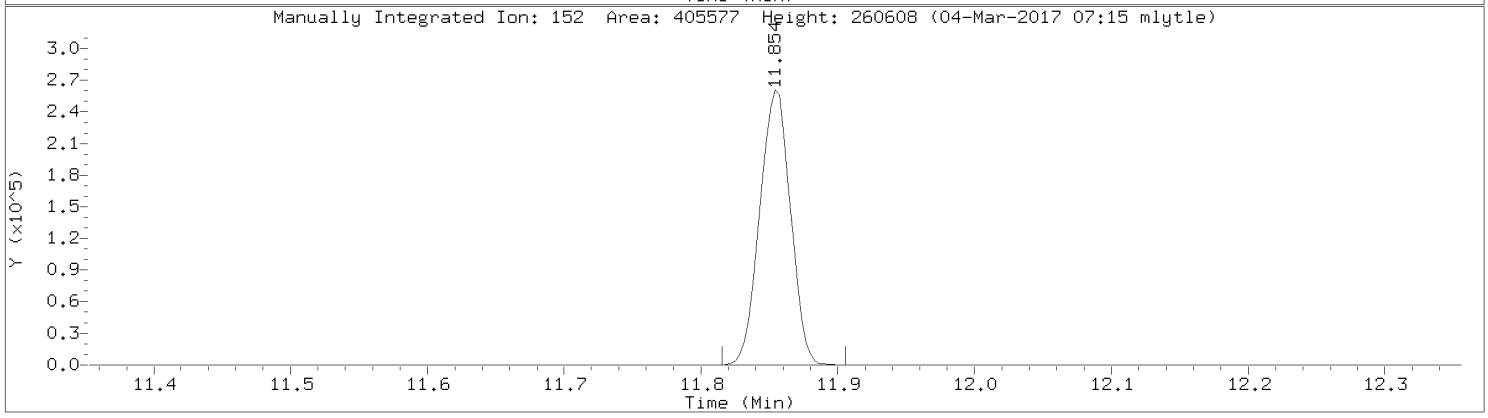
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10air7.i\030417.b\06301BFB.D

Date : 04-MAR-2017 06:29

Client ID: BFB

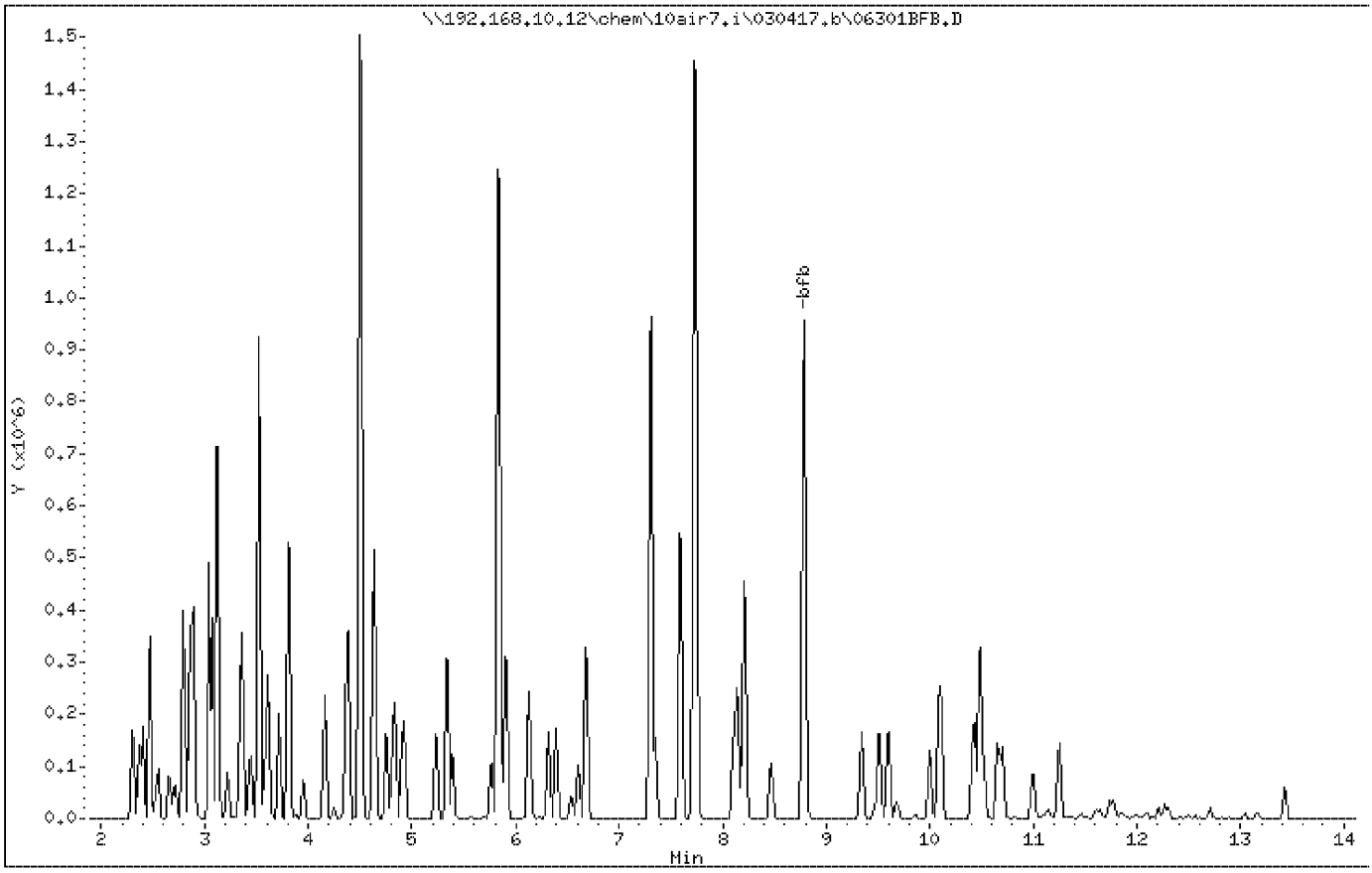
Instrument: 10air7.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06301BFB.D

Date : 04-MAR-2017 06:29

Client ID: BFB

Instrument: 10air7.i

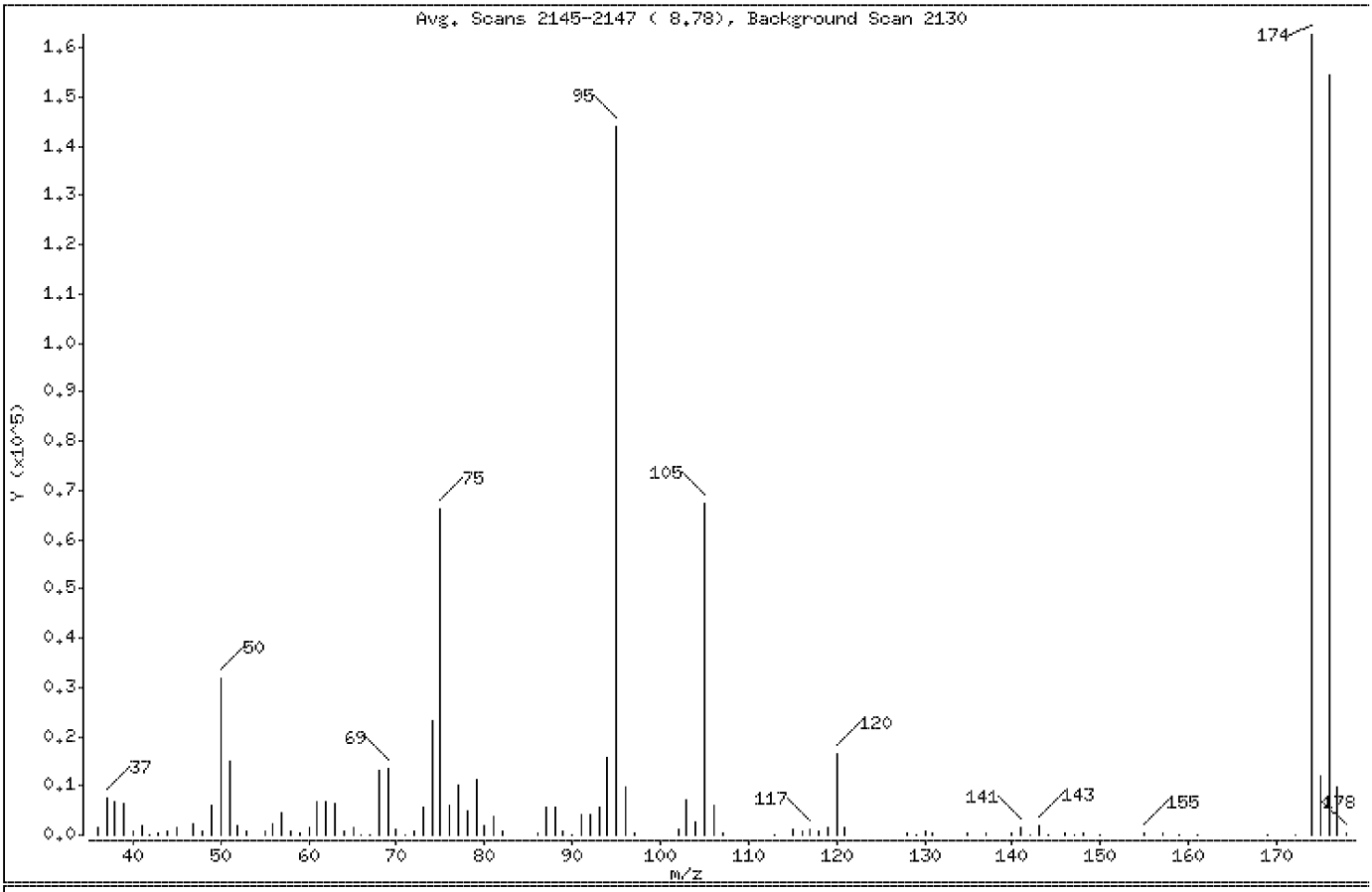
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.12
75	30.00 - 66.00% of mass 95	45.98
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	112.98
175	4.00 - 9.00% of mass 174	8.39 (7.43)
176	93.00 - 101.00% of mass 174	107.16 (94.84)
177	5.00 - 9.00% of mass 176	6.75 (6.30)

Date : 04-MAR-2017 06:29

Client ID: BFB Instrument: 10air7.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06301BFB.D
Spectrum: Avg. Scans 2145-2147 (8.78), Background Scan 2130
Location of Maximum: 174.00
Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1422	63.00	6509	91.00	4155	135.00	208
37.00	7549	64.00	623	92.00	4012	137.00	199
38.00	6864	65.00	1667	93.00	5440	140.00	190
39.00	6230	66.00	100	94.00	15587	141.00	1534
40.00	599	67.00	155	95.00	143936	142.00	110
41.00	1996	68.00	13223	96.00	9743	143.00	1821
42.00	92	69.00	13318	97.00	393	144.00	83
43.00	423	70.00	980	102.00	1042	146.00	323
44.00	929	71.00	100	103.00	7242	147.00	91
45.00	1391	72.00	771	104.00	2745	148.00	366
47.00	2179	73.00	5695	105.00	67408	150.00	112
48.00	827	74.00	23088	106.00	6012	155.00	384
49.00	6120	75.00	66184	107.00	338	157.00	287
50.00	31840	76.00	5991	113.00	91	159.00	88
51.00	15092	77.00	10266	115.00	1138	161.00	131
52.00	1854	78.00	4952	116.00	806	169.00	121
53.00	851	79.00	11369	117.00	1192	172.00	146
55.00	578	80.00	1705	118.00	680	174.00	162624
56.00	2320	81.00	3873	119.00	1329	175.00	12079
57.00	4463	82.00	863	120.00	16416	176.00	154240
58.00	668	86.00	225	121.00	1640	177.00	9717
59.00	460	87.00	5789	128.00	551	178.00	226
60.00	1322	88.00	5588	129.00	88		
61.00	6572	89.00	804	130.00	640		
62.00	6767	90.00	120	131.00	236		

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06401BFB.D

Date : 05-MAR-2017 09:07

Client ID: BFB

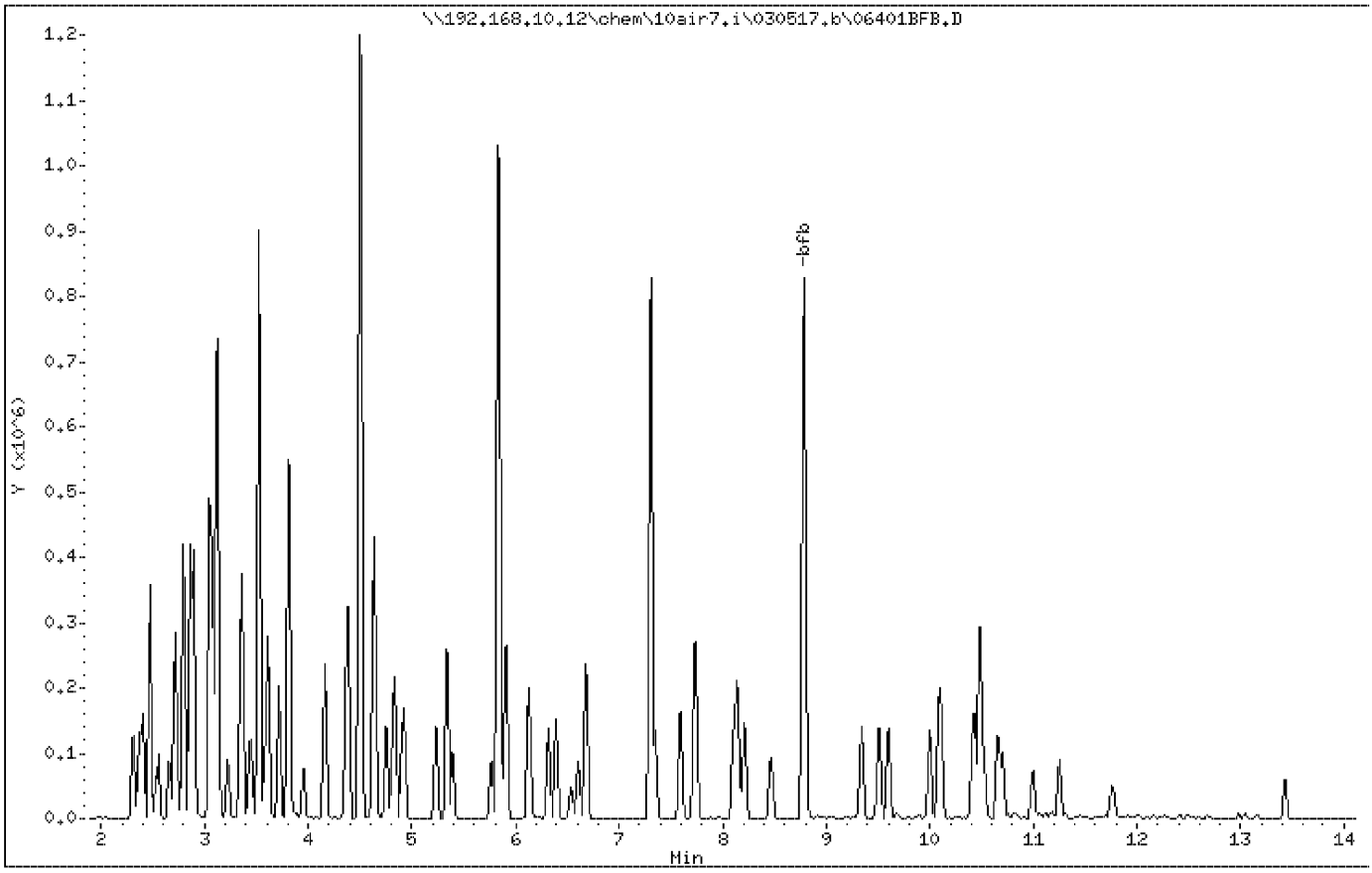
Instrument: 10air7.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06401BFB.D

Date : 05-MAR-2017 09:07

Client ID: BFB

Instrument: 10air7.i

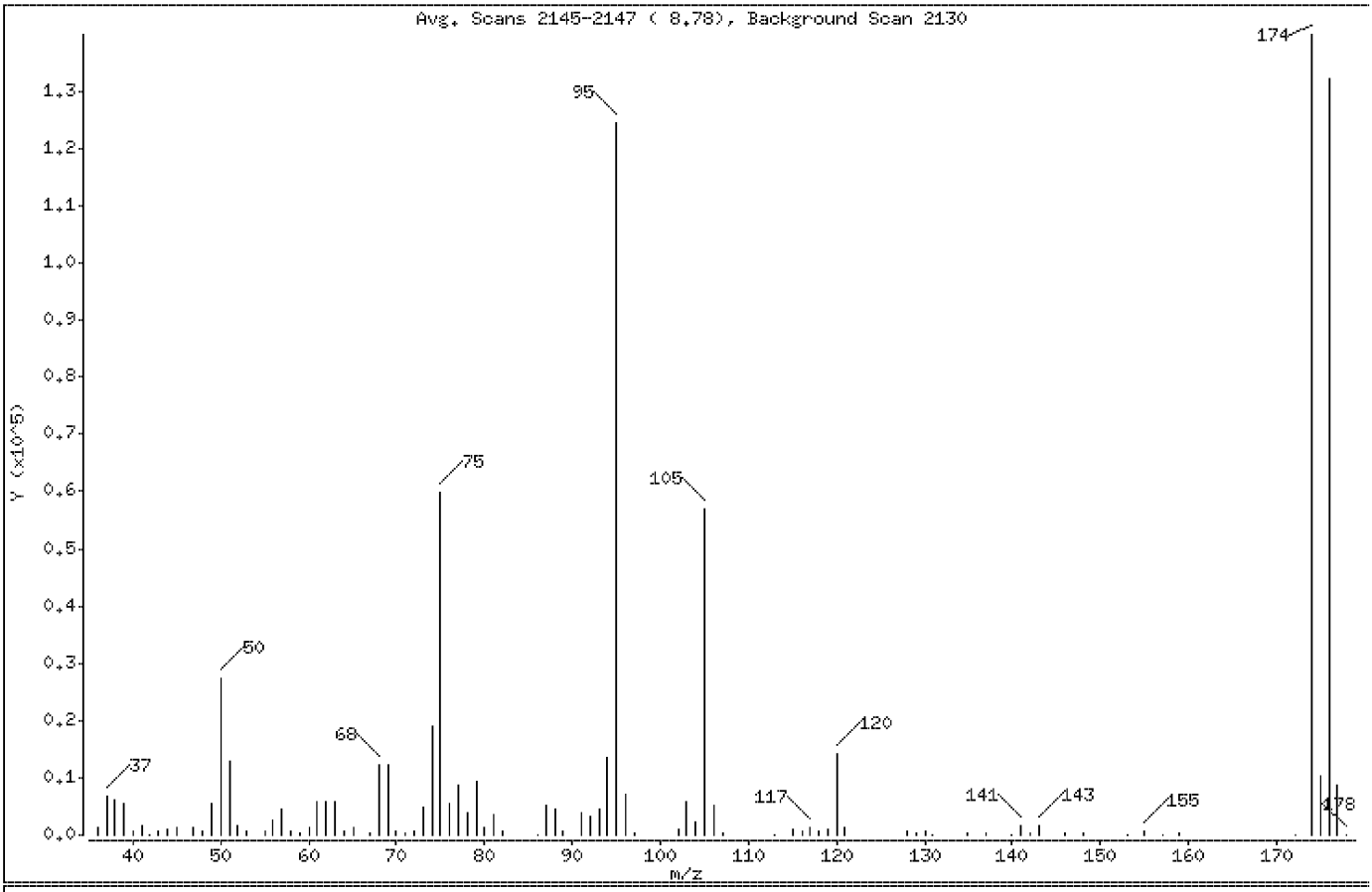
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.04
75	30.00 - 66.00% of mass 95	47.99
96	5.00 - 9.00% of mass 95	5.69
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	112.34
175	4.00 - 9.00% of mass 174	8.36 (7.45)
176	93.00 - 101.00% of mass 174	106.07 (94.42)
177	5.00 - 9.00% of mass 176	7.10 (6.69)

Date : 05-MAR-2017 09:07

Client ID: BFB Instrument: 10air7.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06401BFB.D
Spectrum: Avg. Scans 2145-2147 (8.78), Background Scan 2130
Location of Maximum: 174.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1185	61.00	5756	88.00	4468	128.00	548
37.00	6617	62.00	5754	89.00	753	129.00	199
38.00	6030	63.00	5851	91.00	3875	130.00	556
39.00	5533	64.00	656	92.00	3375	131.00	94
40.00	492	65.00	1160	93.00	4604	135.00	200
41.00	1723	67.00	464	94.00	13603	137.00	334
42.00	87	68.00	12299	95.00	124536	140.00	90
43.00	738	69.00	12289	96.00	7088	141.00	1701
44.00	964	70.00	627	97.00	209	142.00	272
45.00	1159	71.00	401	102.00	976	143.00	1533
47.00	1427	72.00	612	103.00	5922	146.00	222
48.00	784	73.00	4895	104.00	2159	148.00	375
49.00	5624	74.00	19128	105.00	56832	153.00	110
50.00	27448	75.00	59760	106.00	5105	155.00	512
51.00	12783	76.00	5377	107.00	197	157.00	116
52.00	1580	77.00	8743	113.00	84	159.00	248
53.00	670	78.00	3838	115.00	980	172.00	160
55.00	547	79.00	9395	116.00	622	174.00	139904
56.00	2531	80.00	1176	117.00	1282	175.00	10416
57.00	4408	81.00	3549	118.00	544	176.00	132096
58.00	524	82.00	739	119.00	1036	177.00	8838
59.00	435	86.00	99	120.00	14144	178.00	104
60.00	1351	87.00	5026	121.00	1374		

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06101BFB.D

Date : 02-MAR-2017 07:16

Client ID: BFB

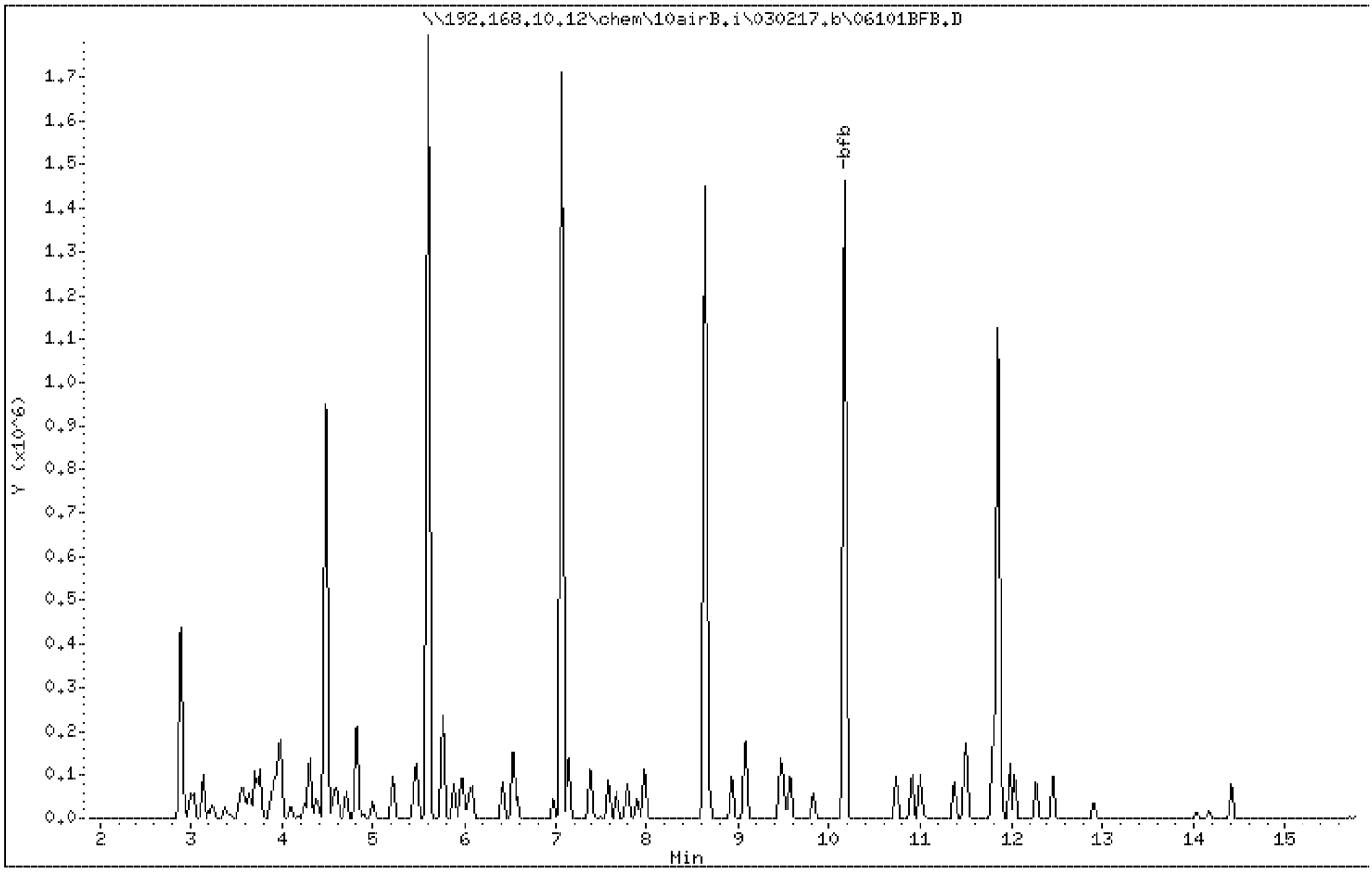
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06101BFB.D

Date : 02-MAR-2017 07:16

Client ID: BFB

Instrument: 10airB.i

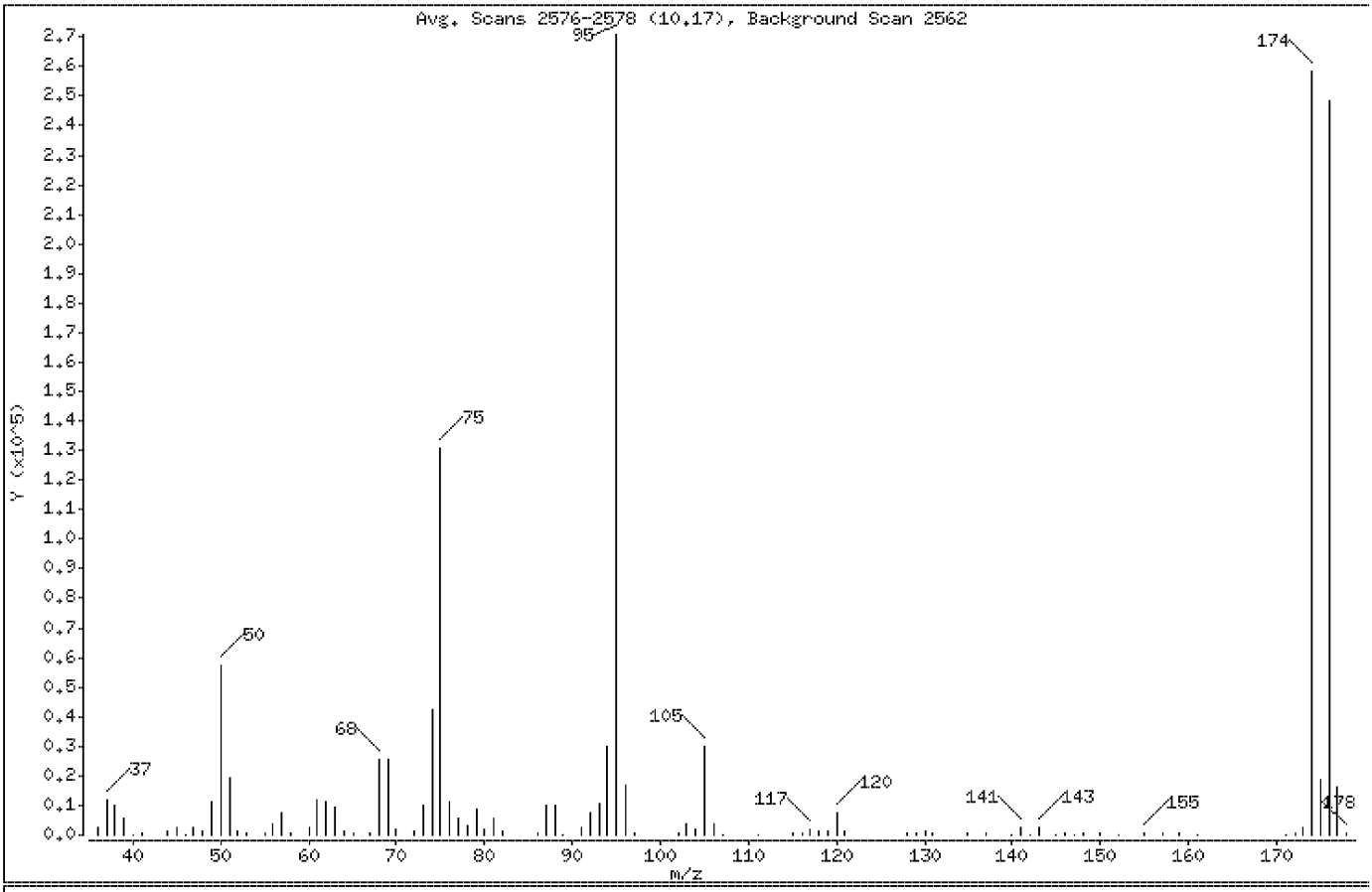
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.18
75	30.00 - 66.00% of mass 95	48.17
96	5.00 - 9.00% of mass 95	6.23
173	Less than 2.00% of mass 174	0.90 (0.94)
174	50.00 - 120.00% of mass 95	95.41
175	4.00 - 9.00% of mass 174	6.96 (7.30)
176	93.00 - 101.00% of mass 174	91.75 (96.16)
177	5.00 - 9.00% of mass 176	5.98 (6.52)

Date : 02-MAR-2017 07:16

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06101BFB.D
Spectrum: Avg. Scans 2576-2578 (10,17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2414	64.00	936	94.00	29624	140.00	93
37.00	11601	65.00	686	95.00	270784	141.00	2504
38.00	10262	67.00	691	96.00	16872	142.00	222
39.00	5600	68.00	25720	97.00	545	143.00	2723
40.00	147	69.00	25264	102.00	504	145.00	96
41.00	842	70.00	1796	103.00	3533	146.00	437
44.00	1483	72.00	1183	104.00	1718	147.00	85
45.00	2196	73.00	10041	105.00	29728	148.00	636
46.00	89	74.00	42280	106.00	3474	150.00	499
47.00	2667	75.00	130432	107.00	217	152.00	219
48.00	1338	76.00	11065	111.00	101	155.00	641
49.00	11307	77.00	5335	115.00	595	157.00	435
50.00	57344	78.00	2928	116.00	910	159.00	361
51.00	19488	79.00	8724	117.00	1673	161.00	149
52.00	1472	80.00	1611	118.00	1063	171.00	83
53.00	374	81.00	5466	119.00	1240	172.00	358
55.00	735	82.00	1172	120.00	7547	173.00	2436
56.00	3772	86.00	382	121.00	971	174.00	258368
57.00	7168	87.00	9720	128.00	762	175.00	18856
58.00	462	88.00	9915	129.00	434	176.00	248448
60.00	2457	89.00	211	130.00	1020	177.00	16201
61.00	11592	91.00	2631	131.00	384	178.00	373
62.00	11482	92.00	7204	135.00	463		
63.00	9244	93.00	10331	137.00	344		

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06201BFB.D

Date : 03-MAR-2017 07:09

Client ID: BFB

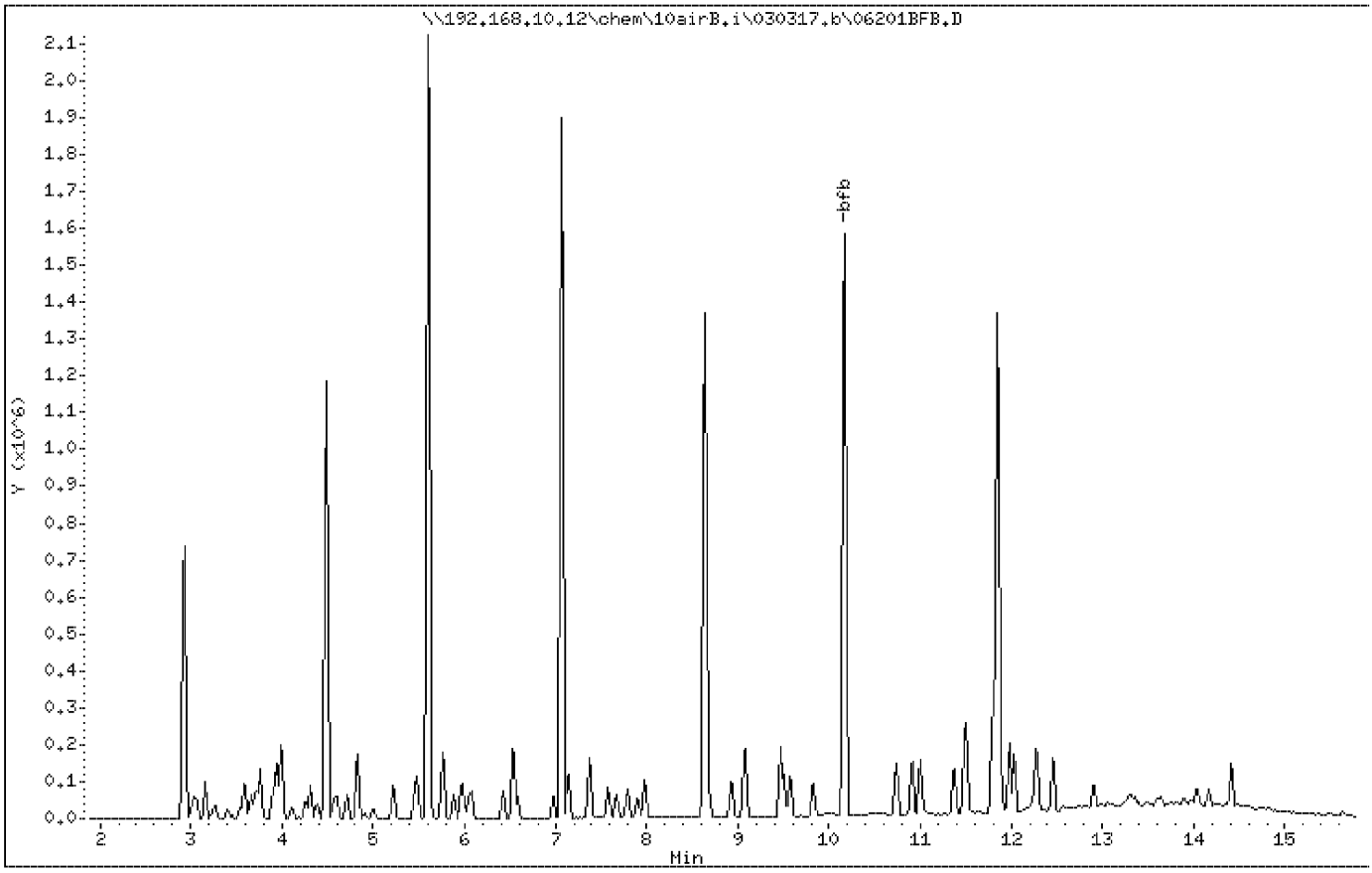
Instrument: 10airB.i

Sample Info:

Operator: MLS

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030317.b\06201BFB.D

Date : 03-MAR-2017 07:09

Client ID: BFB

Instrument: 10airB.i

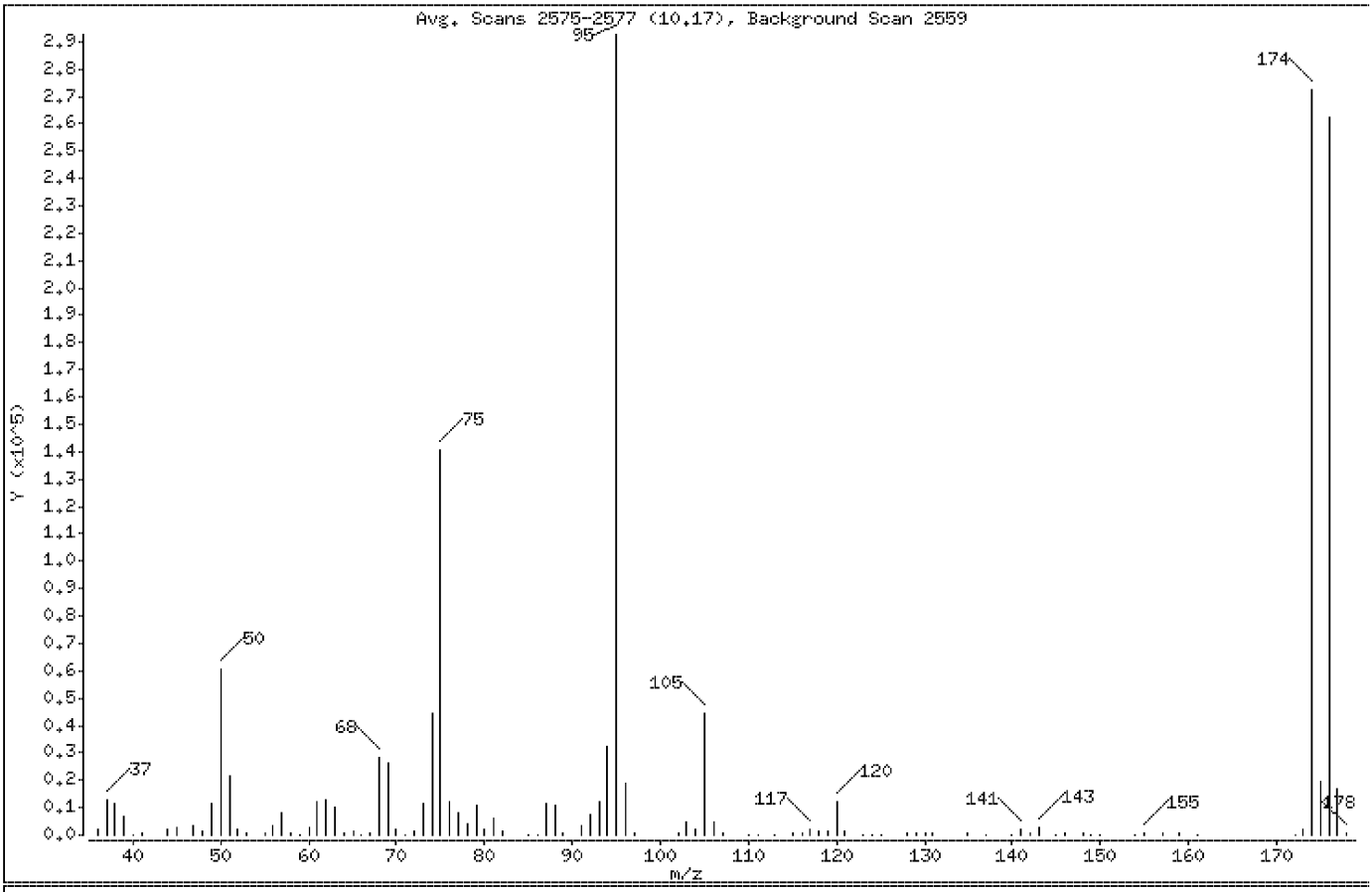
Sample Info:

Operator: MLS

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	20.79
75	30.00 - 66.00% of mass 95	48.06
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.65 (0.70)
174	50.00 - 120.00% of mass 95	93.22
175	4.00 - 9.00% of mass 174	6.75 (7.24)
176	93.00 - 101.00% of mass 174	89.65 (96.17)
177	5.00 - 9.00% of mass 176	5.82 (6.49)

Date : 03-MAR-2017 07:09

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: MLS

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06201BFB.D
Spectrum: Avg. Scans 2575-2577 (10.17), Background Scan 2559
Location of Maximum: 95.00
Number of points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2252	66.00	89	95.00	292544	135.00	670
37.00	12467	67.00	768	96.00	19160	137.00	284
38.00	11315	68.00	27944	97.00	444	140.00	195
39.00	6827	69.00	26392	102.00	730	141.00	2318
40.00	126	70.00	2248	103.00	4869	142.00	356
41.00	988	71.00	225	104.00	2217	143.00	2385
44.00	1754	72.00	1375	105.00	44680	145.00	225
45.00	2487	73.00	11110	106.00	4496	146.00	446
47.00	3083	74.00	44544	107.00	476	148.00	736
48.00	1563	75.00	140608	110.00	117	149.00	112
49.00	11446	76.00	12327	111.00	136	150.00	94
50.00	60808	77.00	8286	113.00	119	154.00	97
51.00	21544	78.00	3714	115.00	831	155.00	744
52.00	1711	79.00	10650	116.00	992	157.00	525
53.00	707	80.00	2148	117.00	1708	159.00	363
55.00	740	81.00	6147	118.00	1072	161.00	93
56.00	3670	82.00	1322	119.00	1497	172.00	306
57.00	7914	85.00	106	120.00	12071	173.00	1896
58.00	547	86.00	240	121.00	1279	174.00	272704
59.00	86	87.00	11145	123.00	130	175.00	19736
60.00	2484	88.00	10871	124.00	190	176.00	262272
61.00	12022	89.00	360	125.00	128	177.00	17032
62.00	12881	91.00	3482	128.00	946	178.00	455
63.00	10122	92.00	7681	129.00	546		
64.00	860	93.00	11793	130.00	989		
65.00	1137	94.00	32296	131.00	419		

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06301BFB.D

Date : 04-MAR-2017 06:28

Client ID: BFB

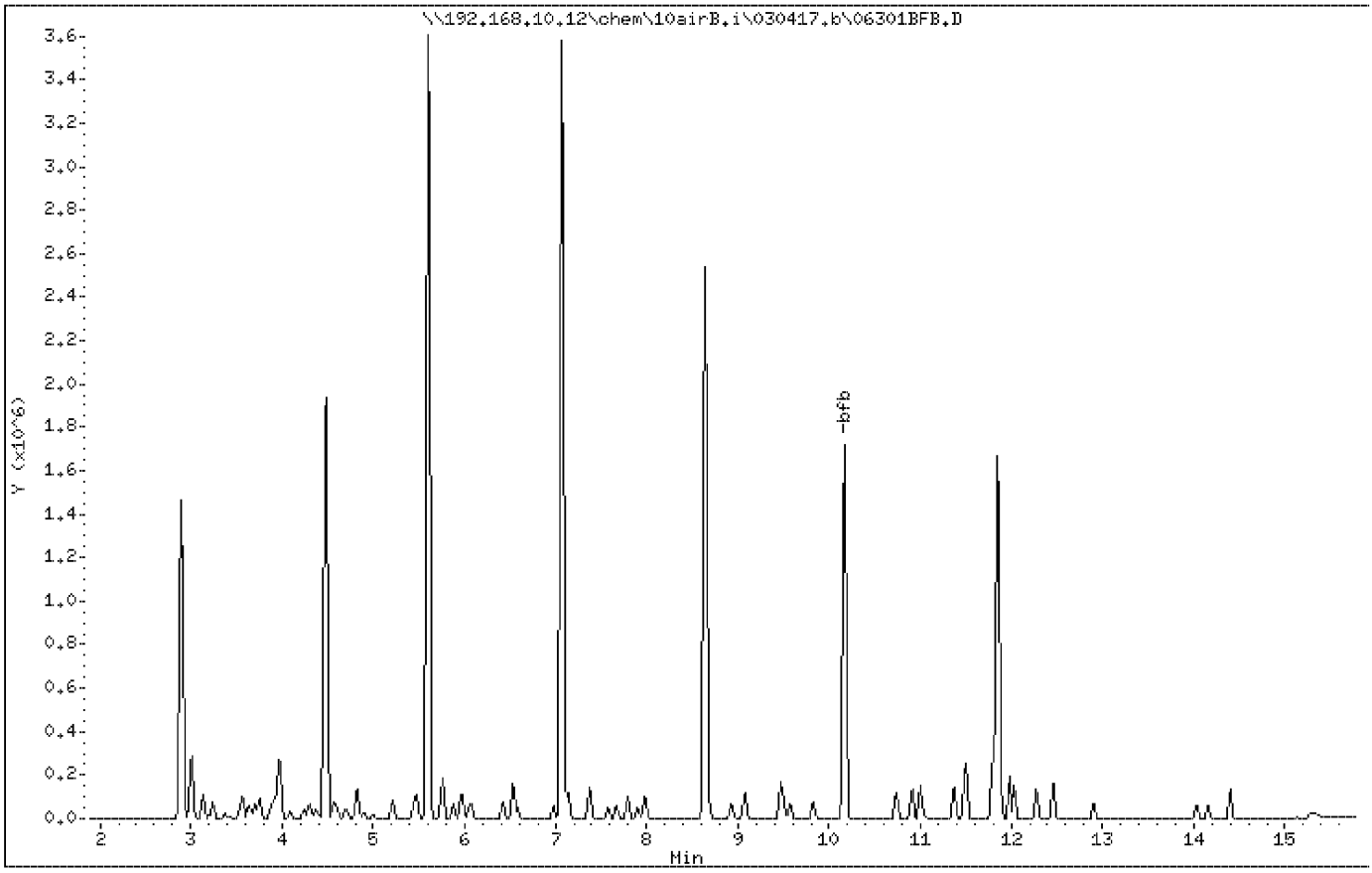
Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06301BFB.D

Date : 04-MAR-2017 06:28

Client ID: BFB

Instrument: 10airB.i

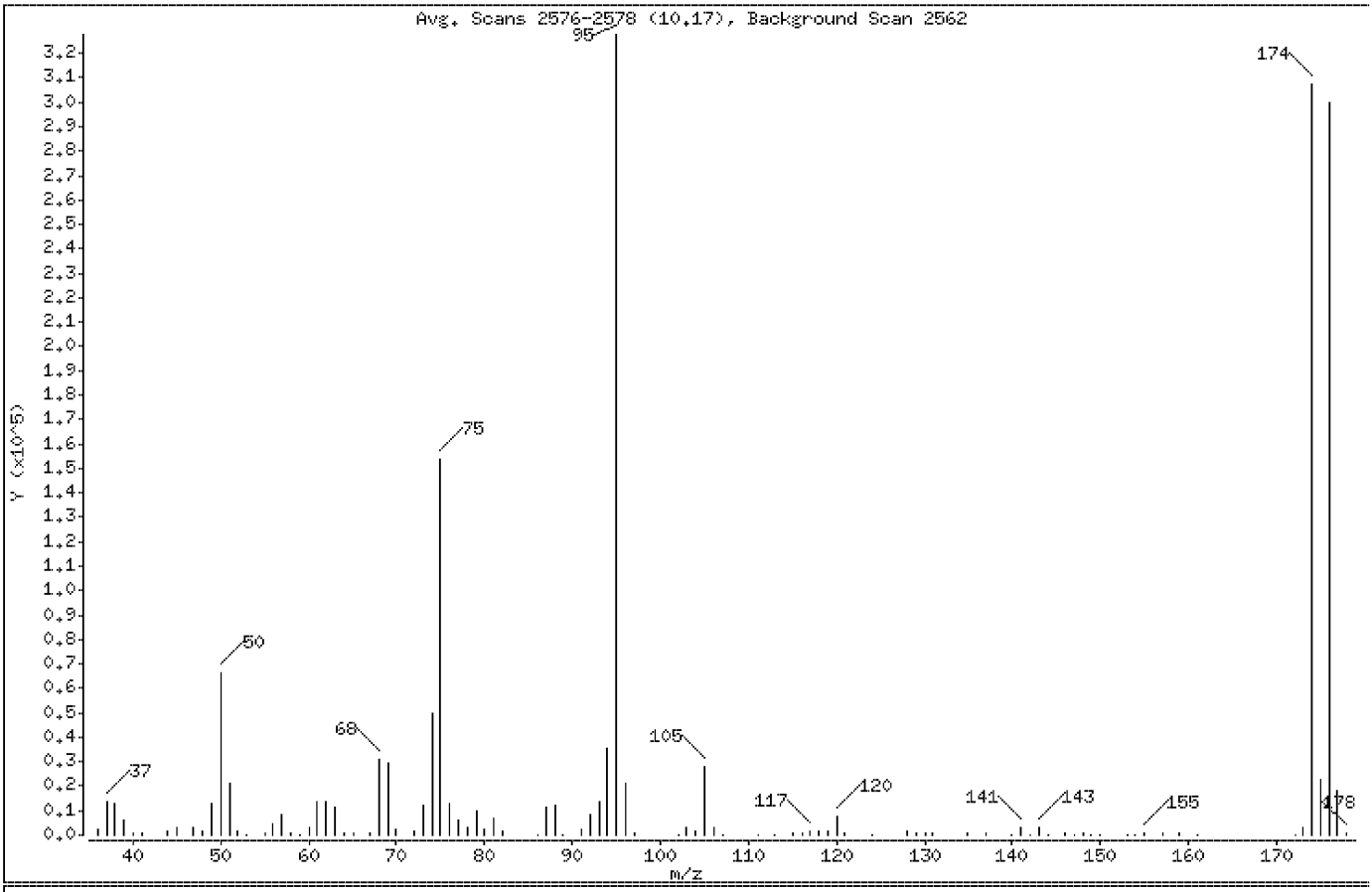
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	20.21
75	30.00 - 66.00% of mass 95	46.92
96	5.00 - 9.00% of mass 95	6.41
173	Less than 2.00% of mass 174	0.94 (1.01)
174	50.00 - 120.00% of mass 95	93.87
175	4.00 - 9.00% of mass 174	6.88 (7.33)
176	93.00 - 101.00% of mass 174	91.50 (97.48)
177	5.00 - 9.00% of mass 176	5.47 (5.98)

Date : 04-MAR-2017 06:28

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06301BFB.D
Spectrum: Avg. Scans 2576-2578 (10.17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2393	65.00	855	96.00	21000	141.00	3313
37.00	13196	67.00	725	97.00	644	142.00	294
38.00	12611	68.00	30584	102.00	307	143.00	3253
39.00	5866	69.00	29544	103.00	3011	144.00	88
40.00	554	70.00	2094	104.00	1804	146.00	532
41.00	621	72.00	1539	105.00	27824	147.00	223
44.00	1793	73.00	12071	106.00	3188	148.00	758
45.00	2909	74.00	49368	107.00	310	149.00	187
47.00	3039	75.00	153728	111.00	84	150.00	327
48.00	1537	76.00	12945	113.00	92	153.00	188
49.00	12704	77.00	5654	115.00	803	154.00	101
50.00	66224	78.00	2713	116.00	1018	155.00	891
51.00	21152	79.00	9729	117.00	1880	157.00	607
52.00	1318	80.00	2044	118.00	1200	159.00	463
53.00	310	81.00	6929	119.00	1527	161.00	311
55.00	872	82.00	1338	120.00	7191	172.00	263
56.00	4379	86.00	225	121.00	641	173.00	3093
57.00	8520	87.00	11626	124.00	162	174.00	307520
58.00	515	88.00	11782	128.00	1160	175.00	22544
59.00	177	89.00	229	129.00	454	176.00	299776
60.00	2734	91.00	2358	130.00	1046	177.00	17920
61.00	13539	92.00	8206	131.00	428	178.00	545
62.00	13482	93.00	13237	135.00	484		
63.00	11139	94.00	35216	137.00	482		
64.00	1085	95.00	327616	140.00	126		

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10379929001	**VP-104_5_20170221**	TO-15	462461		
10379929002	**VP-104_10_20170221**	TO-15	462461		
10379929003	**VP-104_19_20170221**	TO-15	462461		
10379929004	**VP-104_30_20170221**	TO-15	462461		
10379929005	**VP-104_40_20170221**	TO-15	462461		
10379929006	**VP-104_50_20170221**	TO-15	462461		
10379929007	**VP-104_62_20170221**	TO-15	462461		
10379929008	**VP-104_73_20170221**	TO-15	462564		
10379929009	**FPM-20_5_20170221**	TO-15	462564		
10379929010	**FPM-20_9.4_20170221**	TO-15	462564		
10379929011	**VP-8_5_20170221**	TO-15	462564		
10379929012	**VP-8_10_20170221**	TO-15	462564		
10379929013	**VP-8_20_20170221**	TO-15	462564		
10379929014	**VP-8D_53.5_20170221**	TO-15	462564		
10379929015	**VP-8D_62.5_20170221**	TO-15	462564		
10379929016	**VP-8D_72.5_20170221**	TO-15	462564		
10379929017	**VP-8D_62.5_20170221DUP**	TO-15	462564		
10379929018	**FPM-20_5_20170221DUP**	TO-15	462564		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

QC Batch: 462461 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10379929001, 10379929002, 10379929003, 10379929004, 10379929005, 10379929006, 10379929007

METHOD BLANK: 2528755 Matrix: Air
Associated Lab Samples: 10379929001, 10379929002, 10379929003, 10379929004, 10379929005, 10379929006, 10379929007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/03/17 08:54	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/03/17 08:54	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/03/17 08:54	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/03/17 08:54	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/03/17 08:54	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/03/17 08:54	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/03/17 08:54	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/03/17 08:54	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/03/17 08:54	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/03/17 08:54	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/03/17 08:54	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/03/17 08:54	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/03/17 08:54	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/03/17 08:54	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/03/17 08:54	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/03/17 08:54	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/03/17 08:54	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/03/17 08:54	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/03/17 08:54	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/03/17 08:54	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/03/17 08:54	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/03/17 08:54	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/03/17 08:54	
Acetone	ug/m3	<0.83	2.4	0.83	03/03/17 08:54	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/03/17 08:54	
Benzene	ug/m3	<0.12	0.32	0.12	03/03/17 08:54	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/03/17 08:54	
Bromoform	ug/m3	<0.90	2.1	0.90	03/03/17 08:54	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/03/17 08:54	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/03/17 08:54	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/03/17 08:54	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/03/17 08:54	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/03/17 08:54	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/03/17 08:54	
Chloroform	ug/m3	<0.19	0.50	0.19	03/03/17 08:54	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/03/17 08:54	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/03/17 08:54	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/03/17 08:54	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/03/17 08:54	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/03/17 08:54	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/03/17 08:54	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

METHOD BLANK: 2528755 Matrix: Air
Associated Lab Samples: 10379929001, 10379929002, 10379929003, 10379929004, 10379929005, 10379929006, 10379929007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/03/17 08:54	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/03/17 08:54	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/03/17 08:54	
Freon 123	ug/m3	<3.2	3.2	3.2	03/03/17 08:54	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/03/17 08:54	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/03/17 08:54	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/03/17 08:54	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/03/17 08:54	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/03/17 08:54	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/03/17 08:54	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/03/17 08:54	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/03/17 08:54	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/03/17 08:54	
Styrene	ug/m3	<0.19	0.87	0.19	03/03/17 08:54	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/03/17 08:54	
Toluene	ug/m3	<0.15	0.77	0.15	03/03/17 08:54	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/03/17 08:54	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/03/17 08:54	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/03/17 08:54	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/03/17 08:54	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/03/17 08:54	

LABORATORY CONTROL SAMPLE: 2528756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.7	108	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	82.6	118	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	59.6	108	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	80.0	103	66-131	
1,1-Dichloroethane	ug/m3	41.1	43.3	105	62-139	
1,1-Dichloroethene	ug/m3	40.3	42.4	105	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	68.3	90	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	60.2	120	57-143	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	100	102	50-150	1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	86.6	111	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	62.5	102	57-141	
1,2-Dichloroethane	ug/m3	41.1	43.2	105	61-144	
1,2-Dichloropropane	ug/m3	47	51.8	110	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	54.2	108	54-147	
1,3-Butadiene	ug/m3	22.5	24.9	111	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	65.1	107	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	70.8	116	57-143	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	41.6	114	58-144	
2-Butanone (MEK)	ug/m3	30	30.4	102	66-144	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

LABORATORY CONTROL SAMPLE: 2528756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	123	118	63-147	
2-Propanol	ug/m3	125	135	108	54-146	
4-Ethyltoluene	ug/m3	50	52.2	105	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	116	112	58-150	
Acetone	ug/m3	121	116	96	46-140	
Allyl chloride	ug/m3	79.5	85.3	107	65-142	
Benzene	ug/m3	32.5	35.1	108	62-141	
Bromodichloromethane	ug/m3	68.1	75.9	112	58-149	
Bromoform	ug/m3	105	110	105	61-150	
Bromomethane	ug/m3	39.5	41.5	105	58-136	
Carbon disulfide	ug/m3	31.6	36.6	116	59-135	
Carbon tetrachloride	ug/m3	64	72.6	113	60-149	
Chlorobenzene	ug/m3	46.8	50.6	108	60-150	
Chlorodifluoromethane	ug/m3	36	38.6	107	70-130	
Chloroethane	ug/m3	26.8	28.1	105	61-136	
Chloroform	ug/m3	49.6	53.7	108	65-138	
Chloromethane	ug/m3	21	22.2	106	62-133	
Chloropentafluoroethane	ug/m3	64.2	74.2	115	50-150	1M
cis-1,2-Dichloroethene	ug/m3	40.3	43.5	108	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	49.0	106	61-149	
Cyclohexane	ug/m3	35	36.7	105	64-134	
Dibromochloromethane	ug/m3	86.6	92.7	107	59-150	
Dichlorodifluoromethane	ug/m3	50.3	54.8	109	63-134	
Dichlorotetrafluoroethane	ug/m3	71	74.1	104	62-134	
Ethylbenzene	ug/m3	44.1	50.3	114	59-149	
Freon 123	ug/m3	63.6	57.6	91	50-150	1M
Hexachloro-1,3-butadiene	ug/m3	108	106	98	42-150	
Isopropylbenzene (Cumene)	ug/m3	50	54.5	109	65-150	
m&p-Xylene	ug/m3	88.3	98.7	112	59-146	
Methyl acetate	ug/m3	30.8	32.2	104	50-150	1M
Methyl-tert-butyl ether	ug/m3	91.6	97.1	106	64-135	
Methylcyclohexane	ug/m3	40.8	43.6	107	70-130	
Methylene Chloride	ug/m3	177	177	100	64-128	
n-Hexane	ug/m3	35.8	37.7	105	50-138	
o-Xylene	ug/m3	44.1	49.7	113	54-149	
Styrene	ug/m3	43.3	45.0	104	54-150	
Tetrachloroethene	ug/m3	68.9	71.7	104	60-142	
Toluene	ug/m3	38.3	41.4	108	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	44.3	110	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	49.6	108	59-145	
Trichloroethene	ug/m3	54.6	58.5	107	60-144	
Trichlorofluoromethane	ug/m3	57.1	58.0	102	59-134	
Vinyl chloride	ug/m3	26	27.4	106	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

SAMPLE DUPLICATE: 2529325

Parameter	Units	10379929001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.71J	0.74J		25	
1,1-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<1.6	<1.6		25	
1,2,4-Trimethylbenzene	ug/m3	1.2J	1.1J		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.6	<8.6		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4		25	
1,2-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,2-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	<0.32	<0.32		25	
1,3-Butadiene	ug/m3	<0.31	<0.31		25	
1,3-Dichlorobenzene	ug/m3	<0.93	<0.93		25	
1,4-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.62	<0.62		25	
2-Butanone (MEK)	ug/m3	3.0J	3.3J		25	
2-Hexanone	ug/m3	<0.72	<0.72		25	
2-Propanol	ug/m3	5.2	5.5	4	25	
4-Ethyltoluene	ug/m3	1.1J	<0.33		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.38	<0.38		25	
Acetone	ug/m3	16.1	17.0	6	25	
Allyl chloride	ug/m3	<0.40	<0.40		25	
Benzene	ug/m3	0.63	0.69	8	25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<1.6	<1.6		25	
Bromomethane	ug/m3	<0.54	<0.54		25	
Carbon disulfide	ug/m3	<0.18	<0.18		25	
Carbon tetrachloride	ug/m3	<0.34	<0.34		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.48	<0.48		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	0.95	1.0	5	25	
Chloropentafluoroethane	ug/m3	<5.6	<5.6		25	
cis-1,2-Dichloroethene	ug/m3	<0.43	<0.43		25	
cis-1,3-Dichloropropene	ug/m3	<0.65	<0.65		25	
Cyclohexane	ug/m3	<0.55	<0.55		25	
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	2.2	2.4	9	25	
Dichlorotetrafluoroethane	ug/m3	<0.54	<0.54		25	
Ethylbenzene	ug/m3	1.0J	1.1J		25	
Freon 123	ug/m3	<5.6	<5.6		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.24	<0.24		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

SAMPLE DUPLICATE: 2529325

Parameter	Units	10379929001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	4.2	4.3	0	25	
Methyl acetate	ug/m3	<2.7	<2.7		25	
Methyl-tert-butyl ether	ug/m3	<0.53	<0.53		25	
Methylcyclohexane	ug/m3	<0.42	<0.42		25	
Methylene Chloride	ug/m3	32.0	33.5	4	25	
n-Hexane	ug/m3	1.4	1.4	1	25	
o-Xylene	ug/m3	1.1J	1.1J		25	
Styrene	ug/m3	<0.34	0.78J		25	
Tetrachloroethene	ug/m3	<0.49	<0.49		25	
Toluene	ug/m3	2.3	2.4	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.67	<0.67		25	
trans-1,3-Dichloropropene	ug/m3	<0.46	<0.46		25	
Trichloroethene	ug/m3	<0.48	<0.48		25	
Trichlorofluoromethane	ug/m3	1.3J	1.4J		25	
Vinyl chloride	ug/m3	<0.34	<0.34		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

QC Batch: 462564 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10379929008, 10379929009, 10379929010, 10379929011, 10379929012, 10379929013, 10379929014, 10379929015, 10379929016, 10379929017, 10379929018

METHOD BLANK: 2529399 Matrix: Air
Associated Lab Samples: 10379929008, 10379929009, 10379929010, 10379929011, 10379929012, 10379929013, 10379929014, 10379929015, 10379929016, 10379929017, 10379929018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/04/17 12:20	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/04/17 12:20	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/04/17 12:20	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/04/17 12:20	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/04/17 12:20	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/04/17 12:20	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/04/17 12:20	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/04/17 12:20	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/04/17 12:20	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/04/17 12:20	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/04/17 12:20	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/04/17 12:20	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/04/17 12:20	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/04/17 12:20	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/04/17 12:20	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/04/17 12:20	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/04/17 12:20	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/04/17 12:20	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/04/17 12:20	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/04/17 12:20	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/04/17 12:20	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/04/17 12:20	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/04/17 12:20	
Acetone	ug/m3	<0.83	2.4	0.83	03/04/17 12:20	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/04/17 12:20	
Benzene	ug/m3	<0.12	0.32	0.12	03/04/17 12:20	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/04/17 12:20	
Bromoform	ug/m3	<0.90	2.1	0.90	03/04/17 12:20	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/04/17 12:20	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/04/17 12:20	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/04/17 12:20	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/04/17 12:20	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/04/17 12:20	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/04/17 12:20	
Chloroform	ug/m3	<0.19	0.50	0.19	03/04/17 12:20	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/04/17 12:20	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/04/17 12:20	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/04/17 12:20	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/04/17 12:20	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/04/17 12:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

METHOD BLANK: 2529399 Matrix: Air

Associated Lab Samples: 10379929008, 10379929009, 10379929010, 10379929011, 10379929012, 10379929013, 10379929014, 10379929015, 10379929016, 10379929017, 10379929018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/04/17 12:20	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/04/17 12:20	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/04/17 12:20	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/04/17 12:20	
Freon 123	ug/m3	<3.2	3.2	3.2	03/04/17 12:20	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/04/17 12:20	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/04/17 12:20	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/04/17 12:20	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/04/17 12:20	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/04/17 12:20	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/04/17 12:20	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/04/17 12:20	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/04/17 12:20	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/04/17 12:20	
Styrene	ug/m3	<0.19	0.87	0.19	03/04/17 12:20	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/04/17 12:20	
Toluene	ug/m3	<0.15	0.77	0.15	03/04/17 12:20	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/04/17 12:20	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/04/17 12:20	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/04/17 12:20	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/04/17 12:20	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/04/17 12:20	

LABORATORY CONTROL SAMPLE: 2529400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.0	99	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.2	109	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	51.6	93	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	70.6	91	66-131	
1,1-Dichloroethane	ug/m3	41.1	39.7	97	62-139	
1,1-Dichloroethene	ug/m3	40.3	38.0	94	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	72.1	96	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	56.6	113	57-143	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	101	103	50-150	1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	77.4	99	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	59.7	98	57-141	
1,2-Dichloroethane	ug/m3	41.1	39.4	96	61-144	
1,2-Dichloropropane	ug/m3	47	44.9	96	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	50.7	102	54-147	
1,3-Butadiene	ug/m3	22.5	22.4	99	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	62.7	103	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	67.7	111	57-143	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

LABORATORY CONTROL SAMPLE: 2529400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	35.0	96	58-144	
2-Butanone (MEK)	ug/m3	30	27.2	91	66-144	
2-Hexanone	ug/m3	104	112	107	63-147	
2-Propanol	ug/m3	125	113	91	54-146	
4-Ethyltoluene	ug/m3	50	49.3	99	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	99.1	95	58-150	
Acetone	ug/m3	121	105	87	46-140	
Allyl chloride	ug/m3	79.5	76.1	96	65-142	
Benzene	ug/m3	32.5	31.5	97	62-141	
Bromodichloromethane	ug/m3	68.1	68.3	100	58-149	
Bromoform	ug/m3	105	99.6	95	61-150	
Bromomethane	ug/m3	39.5	37.3	95	58-136	
Carbon disulfide	ug/m3	31.6	32.9	104	59-135	
Carbon tetrachloride	ug/m3	64	67.3	105	60-149	
Chlorobenzene	ug/m3	46.8	43.8	94	60-150	
Chlorodifluoromethane	ug/m3	36	35.1	98	70-130	
Chloroethane	ug/m3	26.8	25.3	94	61-136	
Chloroform	ug/m3	49.6	51.0	103	65-138	
Chloromethane	ug/m3	21	19.7	94	62-133	
Chloropentafluoroethane	ug/m3	64.2	45.3	71	50-150	1M
cis-1,2-Dichloroethene	ug/m3	40.3	40.3	100	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	42.9	93	61-149	
Cyclohexane	ug/m3	35	33.5	96	64-134	
Dibromochloromethane	ug/m3	86.6	81.7	94	59-150	
Dichlorodifluoromethane	ug/m3	50.3	48.4	96	63-134	
Dichlorotetrafluoroethane	ug/m3	71	64.1	90	62-134	
Ethylbenzene	ug/m3	44.1	43.3	98	59-149	
Freon 123	ug/m3	63.6	55.0	86	50-150	1M
Hexachloro-1,3-butadiene	ug/m3	108	105	97	42-150	
Isopropylbenzene (Cumene)	ug/m3	50	49.2	98	65-150	
m&p-Xylene	ug/m3	88.3	86.8	98	59-146	
Methyl acetate	ug/m3	30.8	28.8	94	50-150	1M
Methyl-tert-butyl ether	ug/m3	91.6	85.3	93	64-135	
Methylcyclohexane	ug/m3	40.8	38.8	95	70-130	
Methylene Chloride	ug/m3	177	161	91	64-128	
n-Hexane	ug/m3	35.8	32.7	91	50-138	
o-Xylene	ug/m3	44.1	43.3	98	54-149	
Styrene	ug/m3	43.3	40.5	94	54-150	
Tetrachloroethene	ug/m3	68.9	64.0	93	60-142	
Toluene	ug/m3	38.3	36.2	94	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	40.8	101	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	44.0	95	59-145	
Trichloroethene	ug/m3	54.6	51.7	95	60-144	
Trichlorofluoromethane	ug/m3	57.1	51.4	90	59-134	
Vinyl chloride	ug/m3	26	25.1	97	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

SAMPLE DUPLICATE: 2529705

Parameter	Units	10379929012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.55	<0.55		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.51	<0.51		25	
1,1-Dichloroethane	ug/m3	<0.26	<0.26		25	
1,1-Dichloroethene	ug/m3	<0.40	<0.40		25	
1,2,4-Trichlorobenzene	ug/m3	<1.5	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	<0.21	<0.21		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.2	<8.2		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.3	<1.3		25	
1,2-Dichlorobenzene	ug/m3	<0.86	<0.86		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.45	<0.45		25	
1,3,5-Trimethylbenzene	ug/m3	<0.31	<0.31		25	
1,3-Butadiene	ug/m3	<0.30	<0.30		25	
1,3-Dichlorobenzene	ug/m3	<0.89	<0.89		25	
1,4-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.59	<0.59		25	
2-Butanone (MEK)	ug/m3	2.0J	2.1J		25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	1.1J	1.2J		25	
4-Ethyltoluene	ug/m3	<0.32	<0.32		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	9.2	9.6	4	25	
Allyl chloride	ug/m3	<0.38	<0.38		25	
Benzene	ug/m3	<0.20	<0.20		25	
Bromodichloromethane	ug/m3	<0.33	<0.33		25	
Bromoform	ug/m3	<1.5	<1.5		25	
Bromomethane	ug/m3	<0.52	<0.52		25	
Carbon disulfide	ug/m3	<0.17	<0.17		25	
Carbon tetrachloride	ug/m3	<0.32	<0.32		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.46	<0.46		25	
Chloroethane	ug/m3	<0.33	<0.33		25	
Chloroform	ug/m3	<0.32	<0.32		25	
Chloromethane	ug/m3	0.44J	0.54J		25	
Chloropentafluoroethane	ug/m3	<5.4	<5.4		25	
cis-1,2-Dichloroethene	ug/m3	<0.41	<0.41		25	
cis-1,3-Dichloropropene	ug/m3	<0.62	<0.62		25	
Cyclohexane	ug/m3	<0.53	<0.53		25	
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	2.1	2.3	8	25	
Dichlorotetrafluoroethane	ug/m3	<0.52	<0.52		25	
Ethylbenzene	ug/m3	<0.71	<0.71		25	
Freon 123	ug/m3	<5.3	<5.3		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.23	<0.23		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

SAMPLE DUPLICATE: 2529705

Parameter	Units	10379929012 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	<1.3	<1.3		25	
Methyl acetate	ug/m3	<2.6	<2.6		25	
Methyl-tert-butyl ether	ug/m3	<0.51	<0.51		25	
Methylcyclohexane	ug/m3	<0.41	<0.41		25	
Methylene Chloride	ug/m3	5.4J	5.6J		25	
n-Hexane	ug/m3	<0.60	<0.60		25	
o-Xylene	ug/m3	<0.59	<0.59		25	
Styrene	ug/m3	<0.32	<0.32		25	
Tetrachloroethene	ug/m3	<0.47	<0.47		25	
Toluene	ug/m3	<0.26	<0.26		25	
trans-1,2-Dichloroethene	ug/m3	<0.65	<0.65		25	
trans-1,3-Dichloropropene	ug/m3	<0.44	<0.44		25	
Trichloroethene	ug/m3	0.76J	0.74J		25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J		25	
Vinyl chloride	ug/m3	<0.33	<0.33		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06204_27830.D
Report Date: 04-Mar-2017 07:06

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030317.b\06204_27830.D
Lab Smp Id: 2528755
Inj Date : 03-MAR-2017 08:54
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Meth Date : 04-Mar-2017 07:02 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06204_27830.D
Report Date: 04-Mar-2017 07:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.487	(0.801)	456707	9.96843	9.97	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.609	(1.000)	1440039	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.072	(1.263)	1248032	9.68311	9.68	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	943095	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06204_27830.D
Report Date: 04-Mar-2017 07:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	487783	9.38913	9.39	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						(D)
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06204_27830.D
Report Date: 04-Mar-2017 07:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06204_27830.D
Lab Smp Id: 2528755
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Misc Info: 27830

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

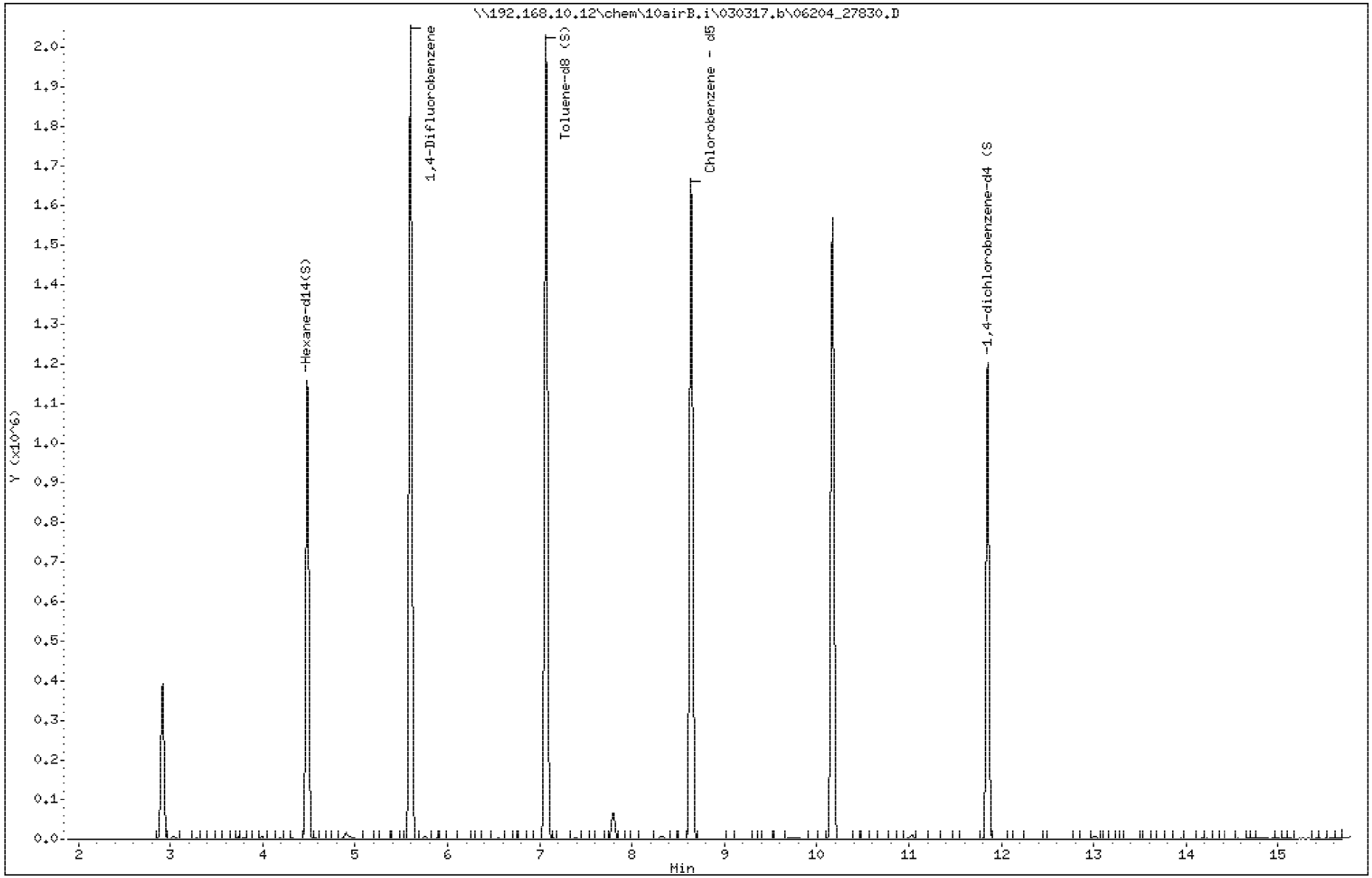
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1440039	1.83
67 Chlorobenzene - d	951026	570616	1331436	943095	-0.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06204_27830.D
Date : 03-MAR-2017 08:54
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030317.b/06204.D
Injection Date: 03-MAR-2017 08:54
Instrument: 10airB.i
Lab Sample ID: cert
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Report Date: 05-Mar-2017 14:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Lab Smp Id: 2529399
Inj Date : 04-MAR-2017 12:20
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Report Date: 05-Mar-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.801)	432082	9.89479	9.89	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1372533	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1160477	9.44664	9.45	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	883257	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Report Date: 05-Mar-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	444436	9.13432	9.13
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Report Date: 05-Mar-2017 14:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06312_27836.D
Lab Smp Id: 2529399
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

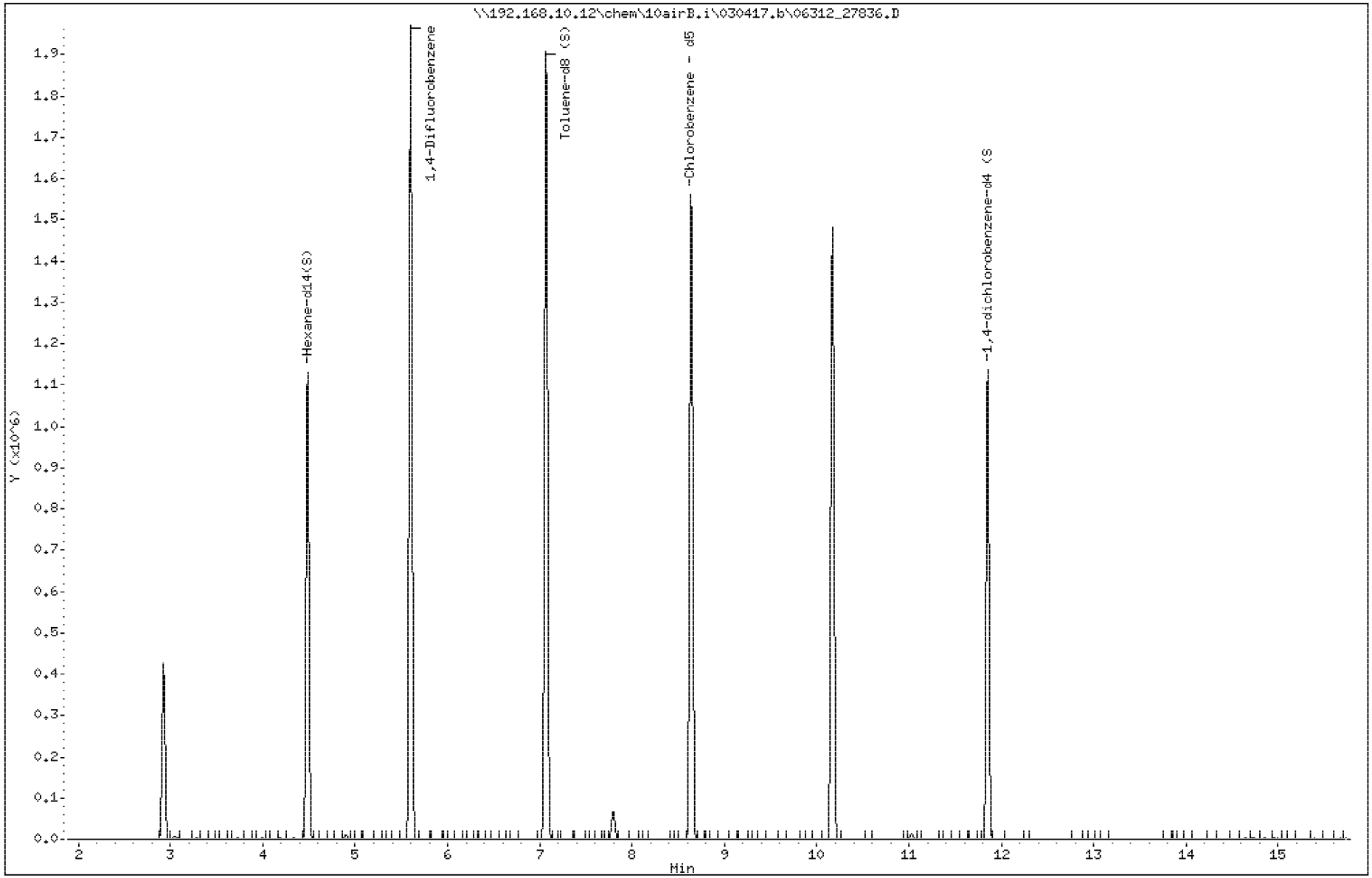
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1372533	-2.94
67 Chlorobenzene - d	951026	570616	1331436	883257	-7.13

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Date : 04-MAR-2017 12:20
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b/06312.D
Injection Date: 04-MAR-2017 12:20
Instrument: 10airB.i
Lab Sample ID: CERT
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202_27830.D
Report Date: 04-Mar-2017 07:06

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030317.b\06202_27830.D
Lab Smp Id: 2528756
Inj Date : 03-MAR-2017 07:37
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info : 27830
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Meth Date : 04-Mar-2017 07:02 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.931	2.931	(0.523)	121137	11.5486	11.5
2	1,1-Difluoroethane	65	3.005	3.005	(0.536)	92251	11.0741	11.1
3	Chlorodifluoromethane	67	3.015	3.015	(0.537)	42875	10.7414	10.7
4	Propylene	41	3.011	3.011	(0.537)	106794	10.1723	10.2
5	Dichlorodifluoromethane	85	3.050	3.050	(0.544)	439973	10.9051	10.9
6	Chloromethane	50	3.146	3.146	(0.561)	172563	10.5700	10.6
7	Dichlorotetrafluoroethane	85	3.156	3.156	(0.563)	411232	10.4246	10.4
8	Vinyl chloride	62	3.227	3.227	(0.575)	148975	10.5634	10.6
9	1,3-Butadiene	54	3.269	3.269	(0.583)	113552	11.0552	11.1
10	Bromomethane	94	3.404	3.404	(0.607)	137067	10.5057	10.5
11	Chloroethane	64	3.458	3.458	(0.617)	67887	10.4682	10.5
12	Ethanol	45	3.542	3.542	(0.631)	282859	54.1773	54.2
13	Vinyl Bromide	106	3.574	3.574	(0.637)	143534	10.6211	10.6
14	Isopentane	43	3.593	3.593	(0.641)	152170	10.6411	10.6
15	Freon 123	83	3.597	3.597	(0.641)	136138	9.06287	9.06
16	Trichlorofluoromethane	101	3.671	3.671	(0.654)	395836	10.1613	10.2
17	Acrolein	56	3.680	3.680	(0.656)	142263	26.8418	26.8
18	Acetone	43	3.719	3.719	(0.663)	1080655	47.9333	47.9
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	1246266	54.2025	54.2
20	1,1-Dichloroethene	61	3.905	3.905	(0.696)	238283	10.5175	10.5
21	Acrylonitrile	53	3.925	3.925	(0.700)	288782	27.7209	27.7
22	Freon 113	101	3.944	3.944	(0.703)	302241	10.2743	10.3
23	Methyl Acetate	43	3.957	3.957	(0.705)	358618	10.4477	10.4

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202_27830.D
Report Date: 04-Mar-2017 07:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.705)	808777	27.3630	27.4
	25 Methylene chloride	49	4.002	4.002	(0.713)	796575	50.0600	50.1
	26 Allyl Chloride	76	4.018	4.018	(0.716)	148374	26.8198	26.8
	27 Carbon Disulfide	76	4.121	4.121	(0.735)	346216	11.5529	11.6
	28 trans-1,2-dichloroethene	96	4.272	4.272	(0.762)	139845	11.0012	11.0
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.767)	959692	26.4837	26.5
	30 Vinyl Acetate	43	4.388	4.388	(0.782)	399448	10.5162	10.5
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	260642	10.5264	10.5
$	32 Hexane-d14(S)	66	4.487	4.487	(0.800)	450463	9.96449	9.96
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	68228	10.1558	10.2
	34 n-Hexane	57	4.584	4.584	(0.817)	238173	10.5115	10.5(M)
	35 Di-isopropyl Ether	45	4.603	4.603	(0.821)	466914	10.6254	10.6
	36 Ethyl Acetate	43	4.716	4.716	(0.841)	313177	10.7393	10.7
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	153196	10.7865	10.8
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.861)	1261506	27.4181	27.4
	39 Chloroform	83	4.841	4.841	(0.863)	318405	10.8165	10.8
	40 Tetrahydrofuran	42	4.992	4.992	(0.890)	168712	10.7224	10.7
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	372907	10.7680	10.8
	42 1,2-Dichloroethane	62	5.236	5.236	(0.934)	275722	10.4953	10.5
	43 Benzene	78	5.465	5.465	(0.974)	495906	10.8216	10.8
	44 Carbon tetrachloride	117	5.484	5.484	(0.978)	392677	11.3458	11.3
	45 Cyclohexane	56	5.487	5.487	(0.978)	240730	10.4939	10.5
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.999)	482653	10.8097	10.8
*	47 1,4-Difluorobenzene	114	5.609	5.609	(1.000)	1420913	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.029)	1926043	27.1353	27.1
	49 Heptane	43	5.889	5.889	(1.050)	278305	10.8688	10.9
	50 1,2-Dichloropropane	63	5.963	5.963	(1.063)	182912	11.0194	11.0
	51 Trichloroethene	130	5.986	5.986	(1.067)	255609	10.7066	10.7
	52 Methyl methacrylate	69	6.043	6.043	(1.077)	174921	11.2647	11.3
	53 1,4-Dioxane	88	6.063	6.063	(1.081)	121661	11.3634	11.4
	54 Bromodichloromethane	83	6.085	6.085	(1.085)	377195	11.1502	11.2
	55 Methylcyclohexane	98	6.433	6.433	(1.147)	138361	10.6736	10.7
	56 Methyl Isobutyl Ketone	43	6.526	6.526	(1.163)	976356	27.9353	27.9
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	302754	10.6110	10.6
	58 trans-1,3-Dichloropropene	75	6.982	6.982	(1.245)	282902	10.7595	10.8
$	59 Toluene-d8 (S)	98	7.072	7.072	(1.261)	1275412	10.0287	10.0
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	204883	10.7509	10.8
	61 Toluene	91	7.153	7.153	(1.275)	619761	10.7994	10.8
	62 Methyl Butyl Ketone	43	7.371	7.371	(0.853)	900292	29.5184	29.5
	63 n-Octane	43	7.580	7.580	(0.877)	377062	11.4157	11.4
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	407476	10.7012	10.7
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	345515	11.0857	11.1
	66 Tetrachloroethene	166	7.982	7.982	(0.923)	348478	10.3925	10.4
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	965665	10.0000	
	68 Chlorobenzene	112	8.683	8.683	(1.004)	517776	10.8106	10.8
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	810156	11.4066	11.4
	70 m&p-Xylene	91	9.079	9.079	(1.050)	1246586	22.3617	22.4
	71 n-Nonane	43	9.468	9.468	(1.095)	352277	12.2519	12.3
	72 Bromoform	173	9.477	9.477	(1.096)	384835	10.5045	10.5
	73 Styrene	104	9.506	9.506	(1.100)	489032	10.3844	10.4
	74 o-Xylene	91	9.577	9.577	(1.108)	639042	11.2678	11.3
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	370075	11.8420	11.8
	76 Isopropylbenzene	105	10.159	10.159	(1.175)	876146	10.9153	10.9
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	976714	10.7531	10.8

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202_27830.D
Report Date: 04-Mar-2017 07:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
78	4-Ethyltoluene	105	10.911	10.911	(1.262)	861374	10.4554	10.5	
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.272)	737411	10.8385	10.8	
80	n-Decane	57	11.378	11.378	(2.028)	379580	10.4458	10.4	
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	752052	11.7283	11.7	
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	691048	12.0468	12.0	
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	434465	10.6584	10.7	
84	Sec- Butylbenzene	105	11.805	11.805	(1.366)	959614	11.9439	11.9	
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	584239	10.9829	11.0(M)	
86	Benzyl Chloride	91	11.863	11.863	(1.372)	461602	10.5968	10.6	
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	435086	11.5781	11.6	
88	p-Isopropyltoluene	119	11.985	11.985	(1.386)	828826	10.8056	10.8	
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	666500	11.7685	11.8	
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	405174	10.2260	10.2	
91	N-Butylbenzene	91	12.461	12.461	(1.441)	632158	10.7370	10.7	
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	157236	10.2173	10.2	
93	1,2,4-Trichlorobenzene	180	14.027	14.027	(1.623)	146653	9.04763	9.05	
94	Naphthalene	128	14.156	14.156	(1.637)	344591	8.87571	8.88	
95	Hexachlorobutadiene	225	14.390	14.390	(1.665)	164254	9.80228	9.80	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202_27830.D
Report Date: 04-Mar-2017 07:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06202_27830.D
Lab Smp Id: 2528756
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m
Misc Info: 27830

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1420913	0.48
67 Chlorobenzene - d	951026	570616	1331436	965665	1.54

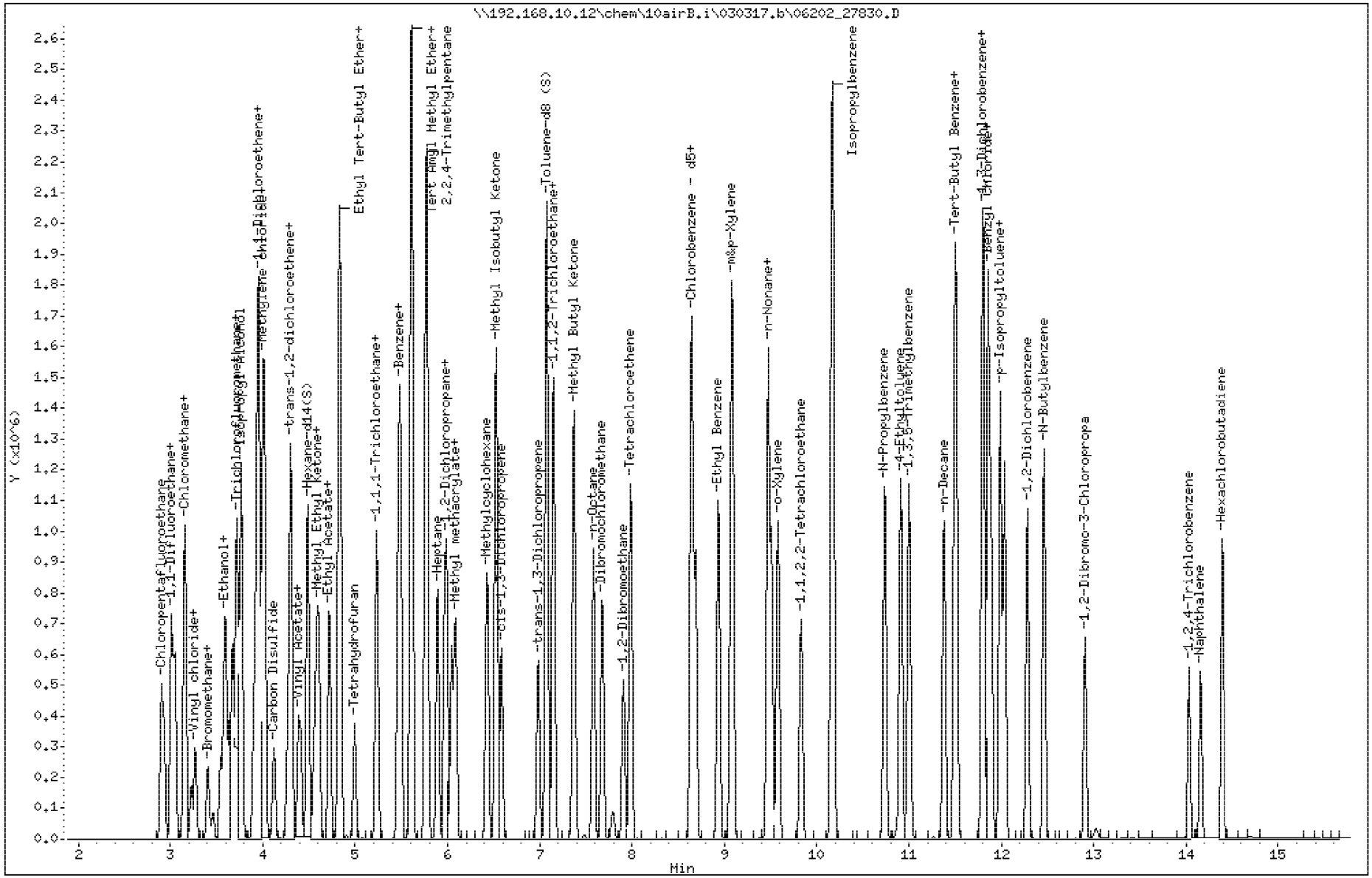
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202_27830.D
Date : 03-MAR-2017 07:37
Client ID:
Sample Info:

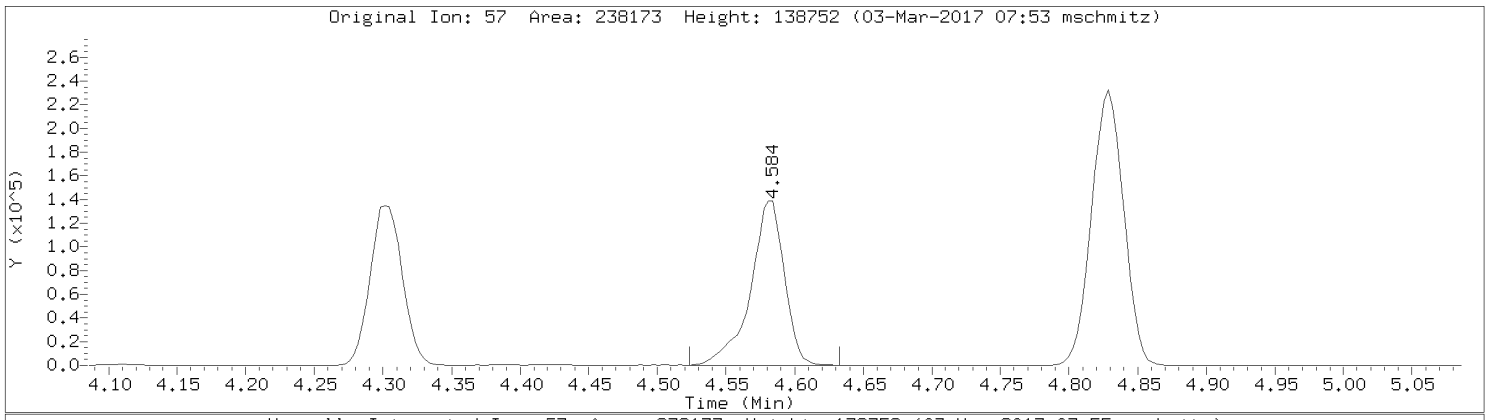
Instrument: 10airB.i

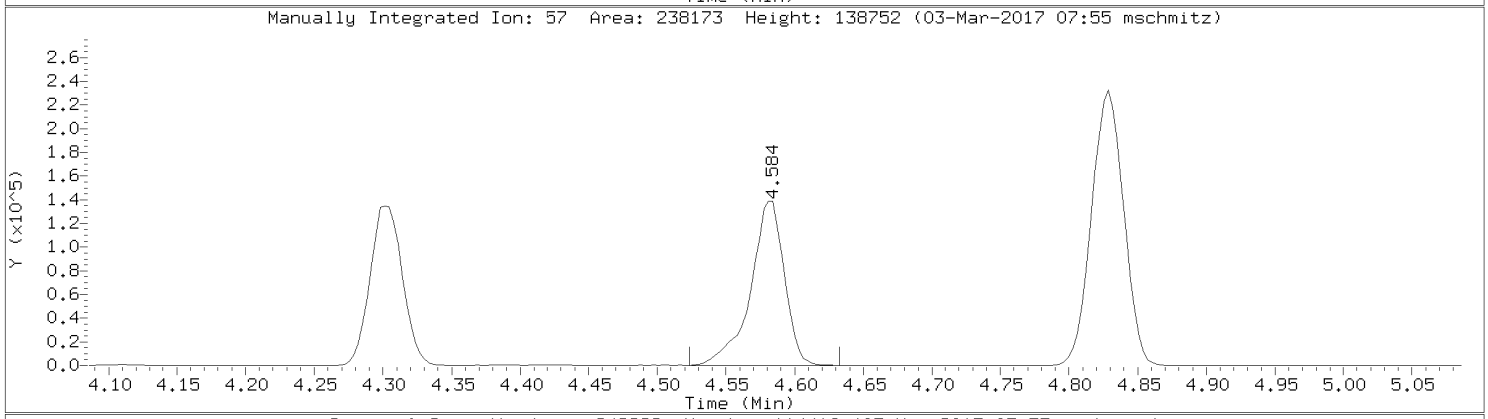
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

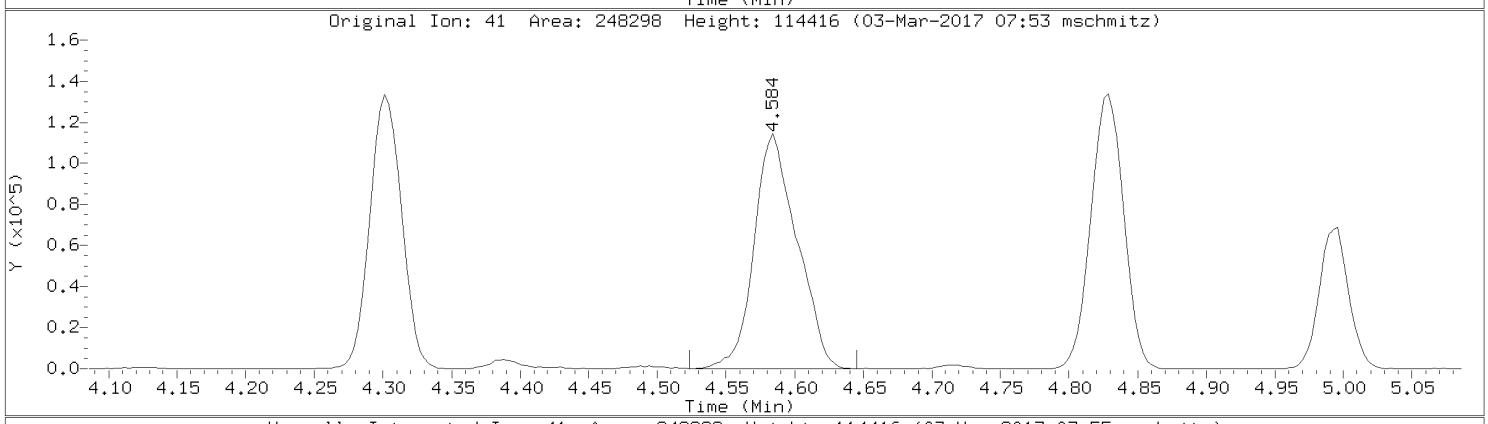


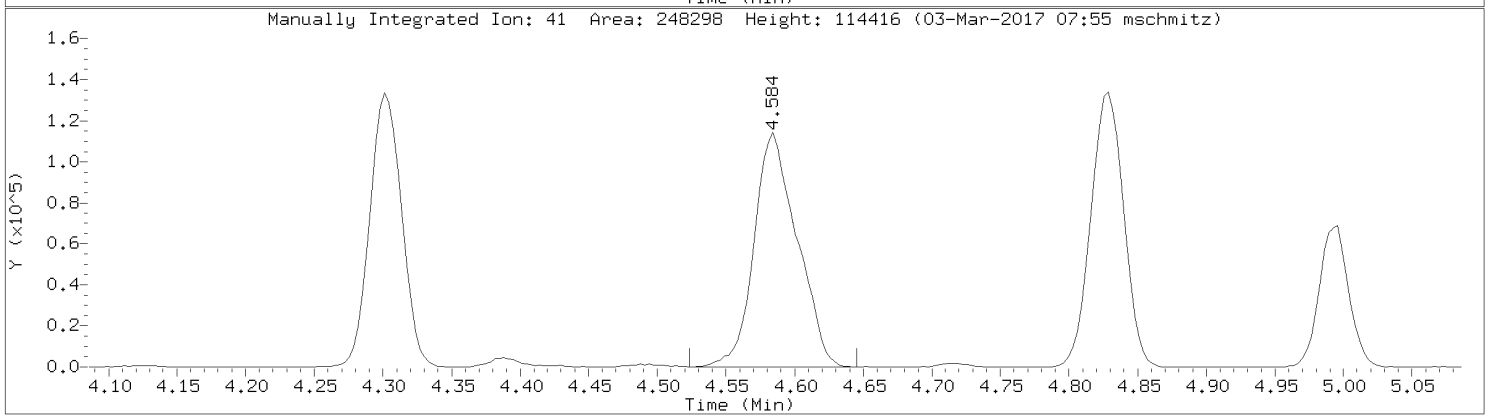
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06202.D
Injection Date: 03-MAR-2017 07:37
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

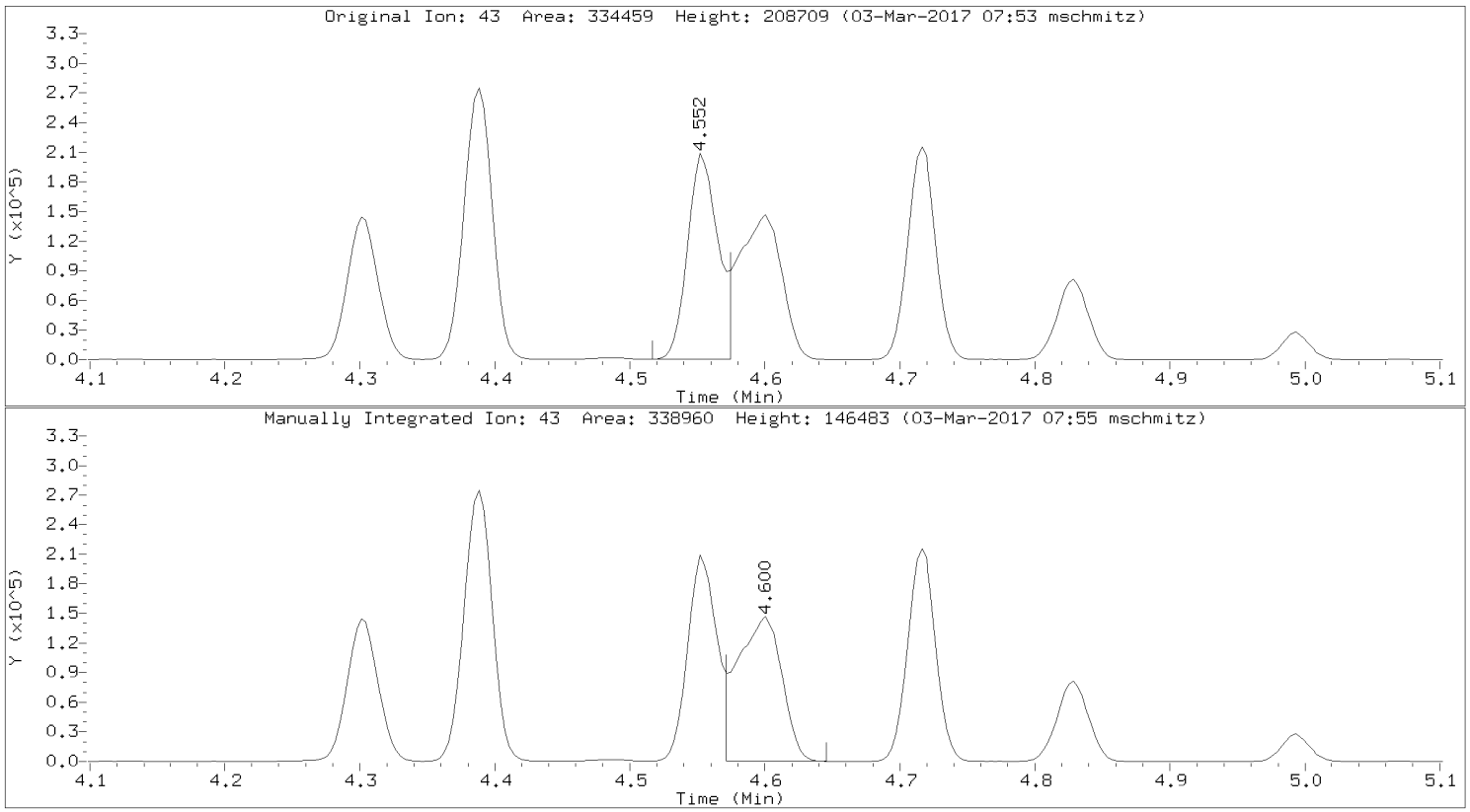






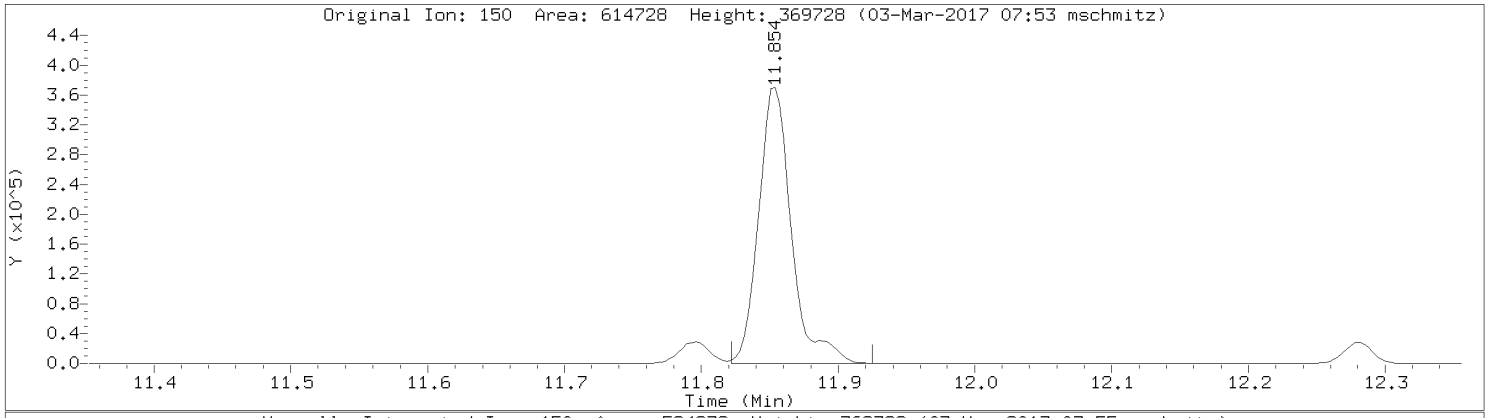


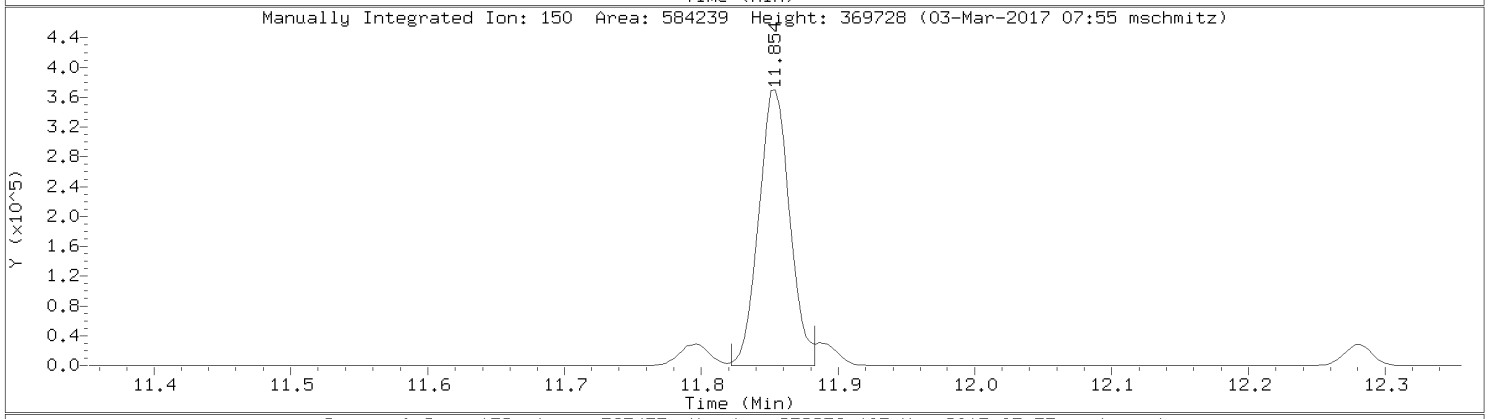
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06202.D
Injection Date: 03-MAR-2017 07:37
Instrument: 10airB.i
Lab Sample ID: CCV

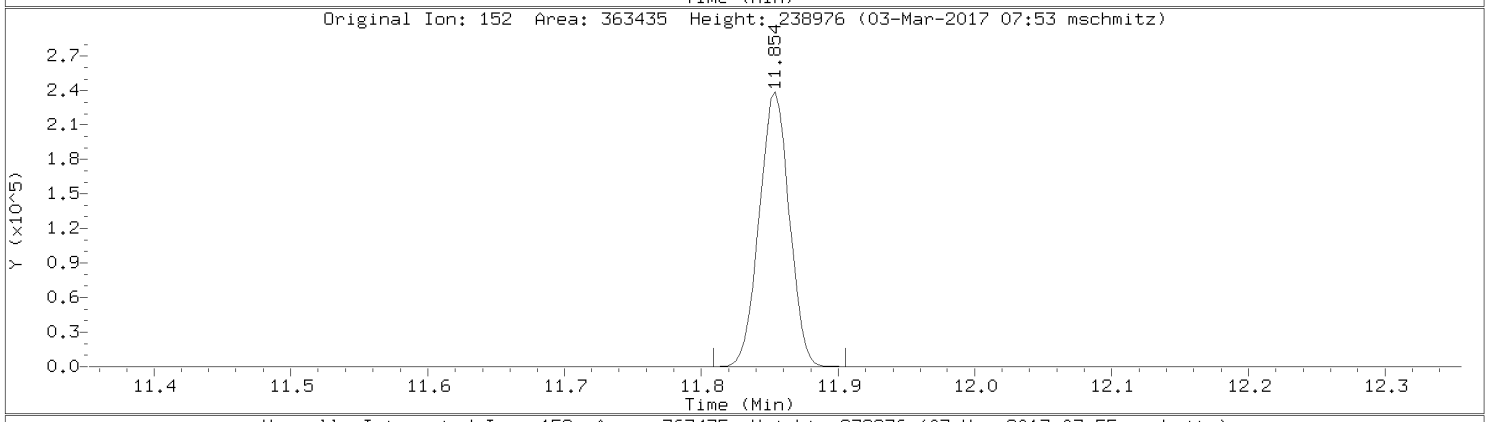


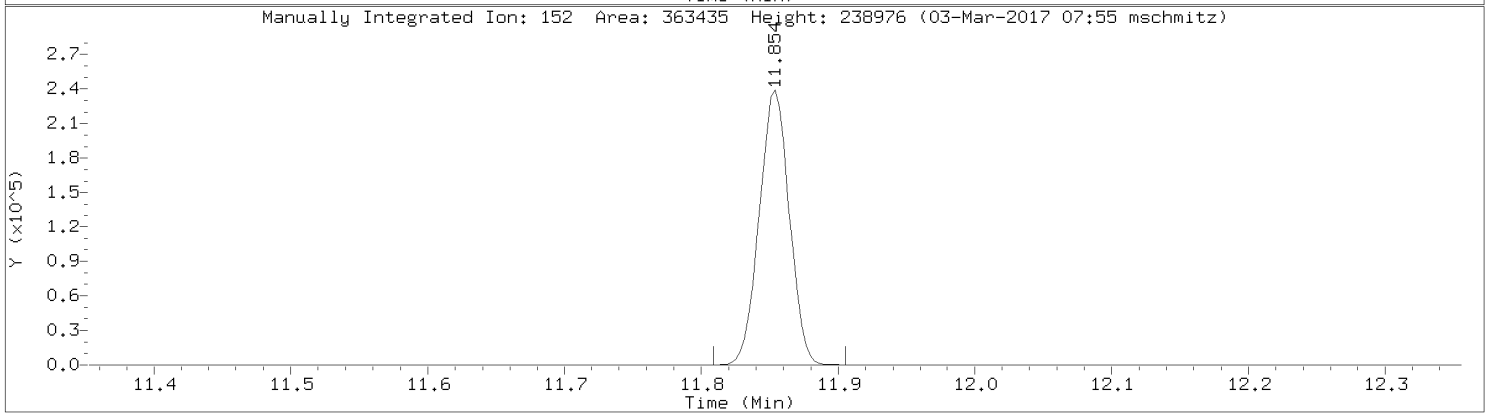
Data File: \\192.168.10.12\chem\10airB.i\030317.b/06202.D
Injection Date: 03-MAR-2017 07:37
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Report Date: 05-Mar-2017 14:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Lab Smp Id: 2529400
Inj Date : 04-MAR-2017 06:56
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.944	2.944	(0.525)	77827	7.05429	7.05
2	1,1-Difluoroethane	65	3.018	3.018	(0.538)	83759	9.49529	9.50
3	Chlorodifluoromethane	67	3.028	3.028	(0.539)	41308	9.76930	9.77
4	Propylene	41	3.028	3.028	(0.539)	98379	8.76125	8.76
5	Dichlorodifluoromethane	85	3.060	3.060	(0.545)	411848	9.63088	9.63
6	Chloromethane	50	3.156	3.156	(0.562)	161953	9.36826	9.37
7	Dichlorotetrafluoroethane	85	3.166	3.166	(0.564)	376709	9.01815	9.02
8	Vinyl chloride	62	3.234	3.234	(0.576)	144246	9.65901	9.66
9	1,3-Butadiene	54	3.275	3.275	(0.584)	108227	9.95061	9.95
10	Bromomethane	94	3.414	3.414	(0.608)	130647	9.45653	9.46
11	Chloroethane	64	3.465	3.465	(0.617)	64683	9.41926	9.42
12	Ethanol	45	3.545	3.545	(0.632)	242585	43.8785	43.9
13	Vinyl Bromide	106	3.581	3.581	(0.638)	136561	9.54294	9.54
14	Isopentane	43	3.600	3.600	(0.641)	139439	9.18981	9.19
15	Freon 123	83	3.603	3.603	(0.642)	137632	8.64887	8.65
16	Trichlorofluoromethane	101	3.674	3.674	(0.655)	371295	9.00104	9.00
17	Acrolein	56	3.684	3.684	(0.656)	133867	23.9262	23.9
18	Acetone	43	3.722	3.722	(0.663)	1042800	43.6809	43.7
19	Isopropyl Alcohol	45	3.767	3.767	(0.671)	1102178	45.2690	45.3
20	1,1-Dichloroethene	61	3.909	3.909	(0.696)	226399	9.43704	9.44
21	Acrylonitrile	53	3.928	3.928	(0.700)	276382	25.0547	25.1
22	Freon 113	101	3.951	3.951	(0.704)	282249	9.06095	9.06
23	Methyl Acetate	43	3.960	3.960	(0.706)	340359	9.36415	9.36

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Report Date: 05-Mar-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.957	(0.705)	724159	23.1371	23.1
	25 Methylene chloride	49	4.005	4.005	(0.714)	766863	45.5117	45.5
	26 Allyl Chloride	76	4.018	4.018	(0.716)	140500	23.9074	23.9
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	329653	10.3882	10.4
	28 trans-1,2-dichloroethene	96	4.275	4.275	(0.762)	136180	10.1169	10.1
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	893308	23.2803	23.3
	30 Vinyl Acetate	43	4.391	4.391	(0.782)	380868	9.48893	9.49
	31 1,1-Dichloroethane	63	4.414	4.414	(0.786)	253309	9.66110	9.66
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	479832	10.0236	10.0
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	64430	9.06476	9.06
	34 n-Hexane	57	4.584	4.584	(0.817)	219059	9.13004	9.13(M)
	35 Di-isopropyl Ether	45	4.606	4.606	(0.821)	439725	9.44992	9.45
	36 Ethyl Acetate	43	4.716	4.716	(0.840)	289971	9.39033	9.39
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	150200	9.98718	9.99
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	1204728	24.7274	24.7
	39 Chloroform	83	4.841	4.841	(0.863)	320254	10.2740	10.3
	40 Tetrahydrofuran	42	4.992	4.992	(0.889)	152693	9.16441	9.16
	41 1,1,1-Trichloroethane	97	5.233	5.233	(0.932)	363443	9.91089	9.91
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	266397	9.57622	9.58
	43 Benzene	78	5.468	5.468	(0.974)	470480	9.69559	9.70
	44 Carbon tetrachloride	117	5.484	5.484	(0.977)	385695	10.5241	10.5
	45 Cyclohexane	56	5.487	5.487	(0.978)	232400	9.56718	9.57
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	427267	8.98553	8.99
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1504620	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.028)	1807833	24.0529	24.1
	49 Heptane	43	5.893	5.893	(1.050)	259190	9.55917	9.56
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	167859	9.54992	9.55
	51 Trichloroethene	130	5.989	5.989	(1.067)	239399	9.46974	9.47
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	160249	9.74573	9.75
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	108428	9.56398	9.56
	54 Bromodichloromethane	83	6.085	6.085	(1.084)	358992	10.0217	10.0
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	129952	9.49897	9.50
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	880588	23.7935	23.8
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	280260	9.28812	9.29
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	264547	9.53732	9.54
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1325166	9.84027	9.84
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	187856	9.30900	9.31
	61 Toluene	91	7.153	7.153	(1.274)	573557	9.43827	9.44
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	861770	26.8606	26.9
	63 n-Octane	43	7.584	7.584	(0.877)	335624	9.65961	9.66
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	377732	9.43571	9.44
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	324949	9.91118	9.91
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	327281	9.27853	9.28
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1015806	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	471527	9.35904	9.36
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	733341	9.81544	9.82
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1152570	19.6547	19.7
	71 n-Nonane	43	9.468	9.468	(1.095)	344156	11.3786	11.4
	72 Bromoform	173	9.478	9.478	(1.096)	366636	9.47972	9.48
	73 Styrene	104	9.507	9.507	(1.100)	464994	9.35381	9.35
	74 o-Xylene	91	9.581	9.581	(1.108)	584879	9.80370	9.80
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	359191	10.9264	10.9
	76 Isopropylbenzene	105	10.159	10.159	(1.175)	831318	9.84561	9.85
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	963936	10.0902	10.1

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Report Date: 05-Mar-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	855640	9.85625	9.86
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	726458	10.1516	10.2
80	n-Decane	57	11.378	11.378	(2.027)	377800	9.83266	9.83
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	749925	11.1179	11.1
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	683225	11.3225	11.3
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	439900	10.2587	10.3
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	951115	11.2538	11.3
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	641034	11.4558	11.5(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	454614	9.94028	9.94(M)
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	437710	11.0730	11.1
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	813938	10.0874	10.1
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	661455	11.1029	11.1
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.420)	407802	9.77420	9.77
91	N-Butylbenzene	91	12.458	12.458	(1.441)	643158	10.3839	10.4
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	167109	10.3208	10.3
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.623)	163806	9.56191	9.56
94	Naphthalene	128	14.156	14.156	(1.637)	378936	9.26310	9.26
95	Hexachlorobutadiene	225	14.391	14.391	(1.665)	170999	9.70109	9.70

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Report Date: 05-Mar-2017 14:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06302_27836.D
Lab Smp Id: 2529400
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

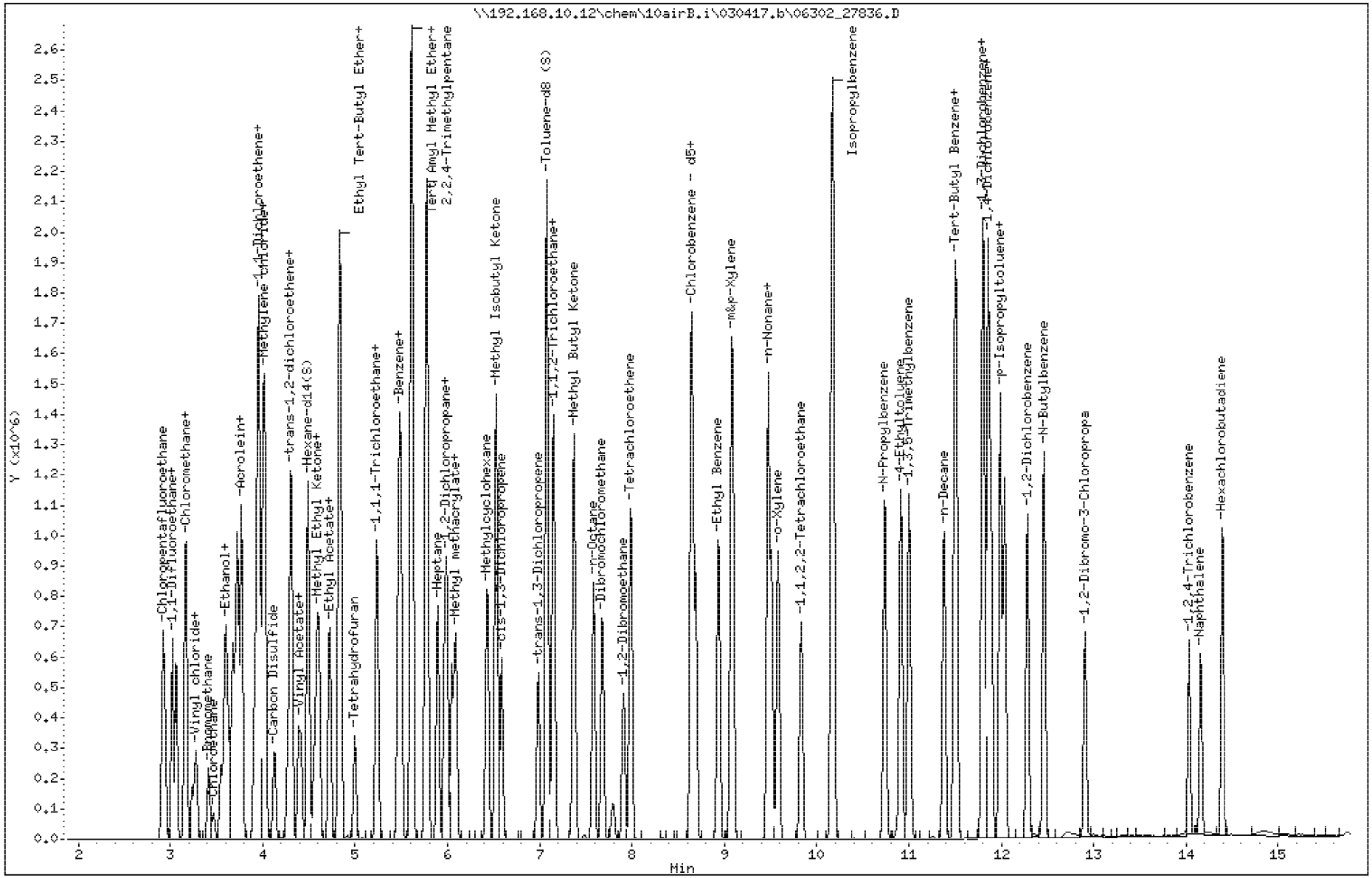
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1504620	6.40
67 Chlorobenzene - d	951026	570616	1331436	1015806	6.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

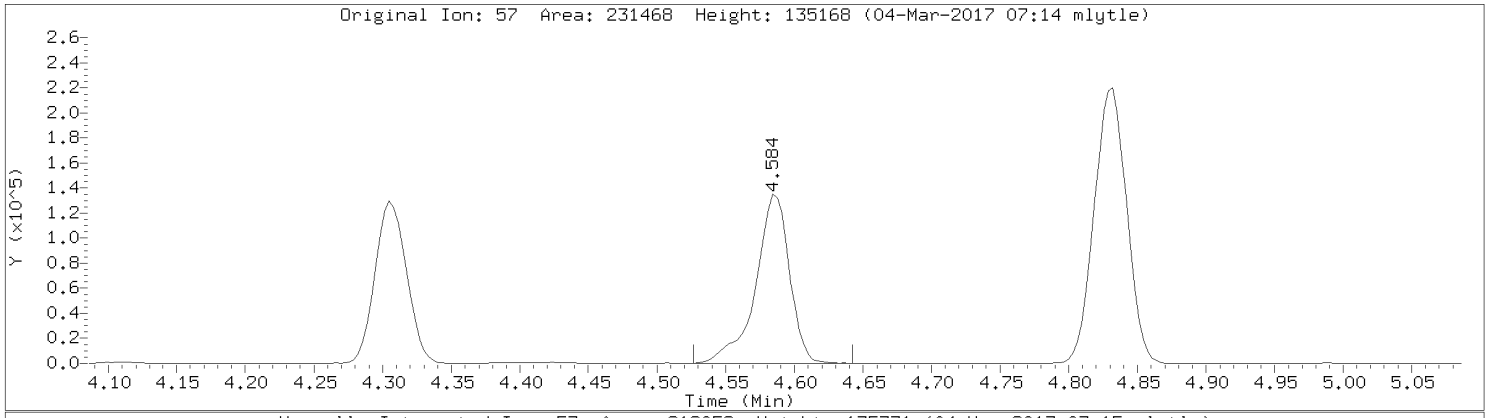
Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Date : 04-MAR-2017 06:56
Client ID:
Sample Info:

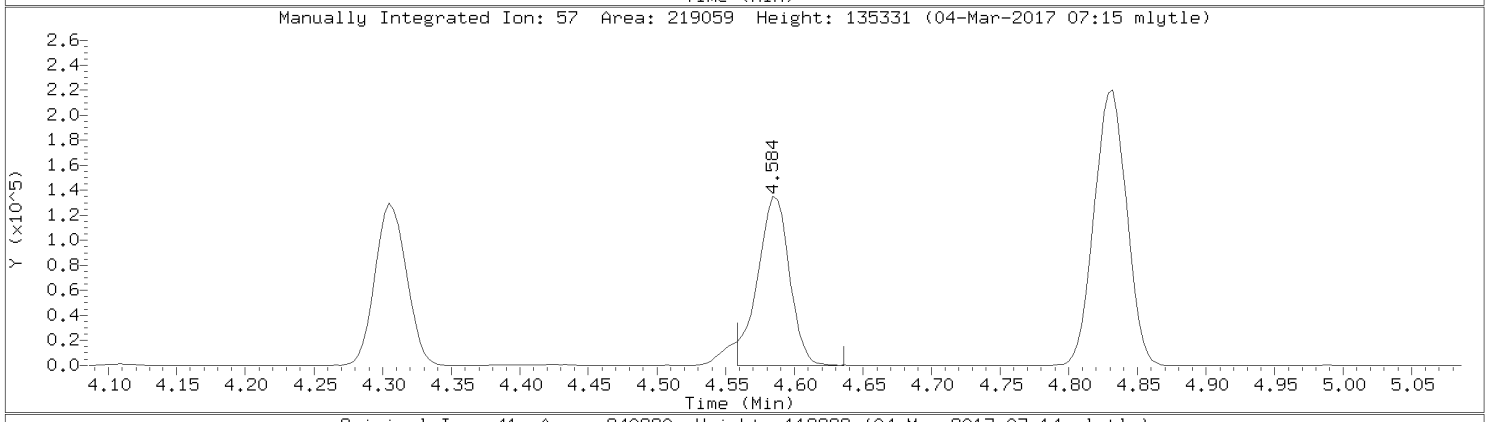
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

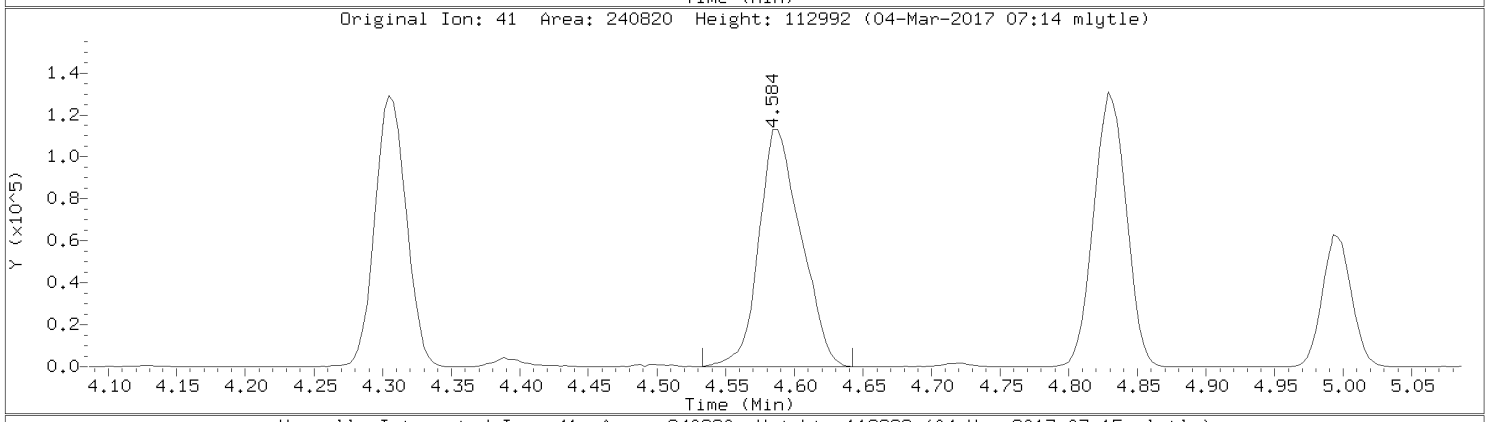


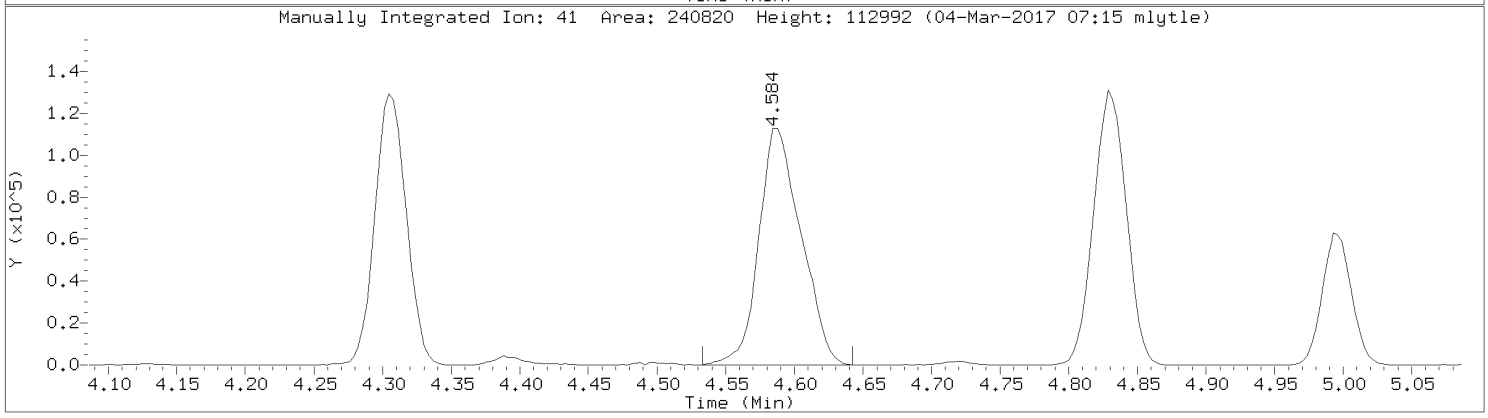
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

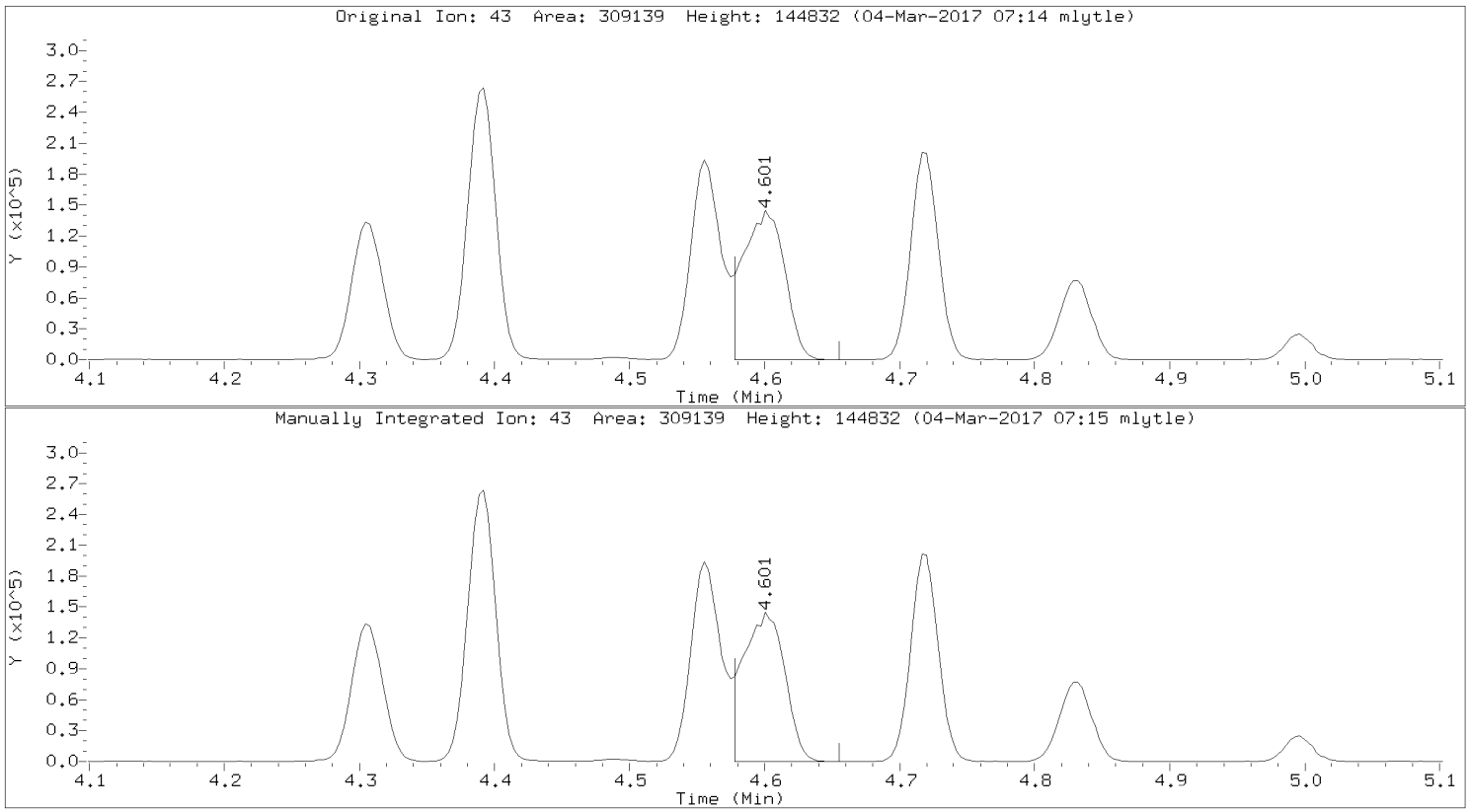






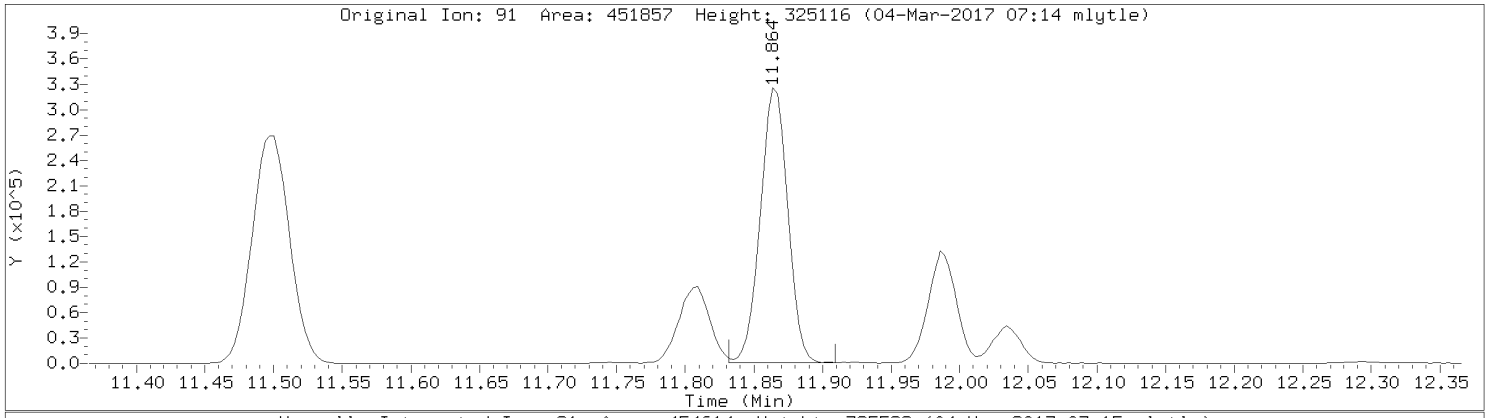


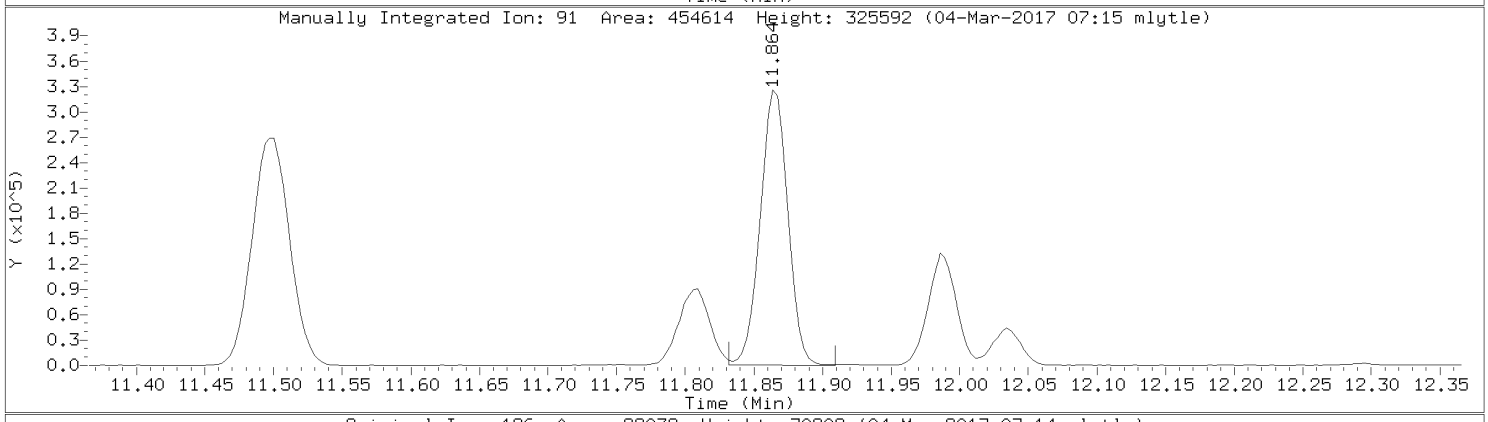
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

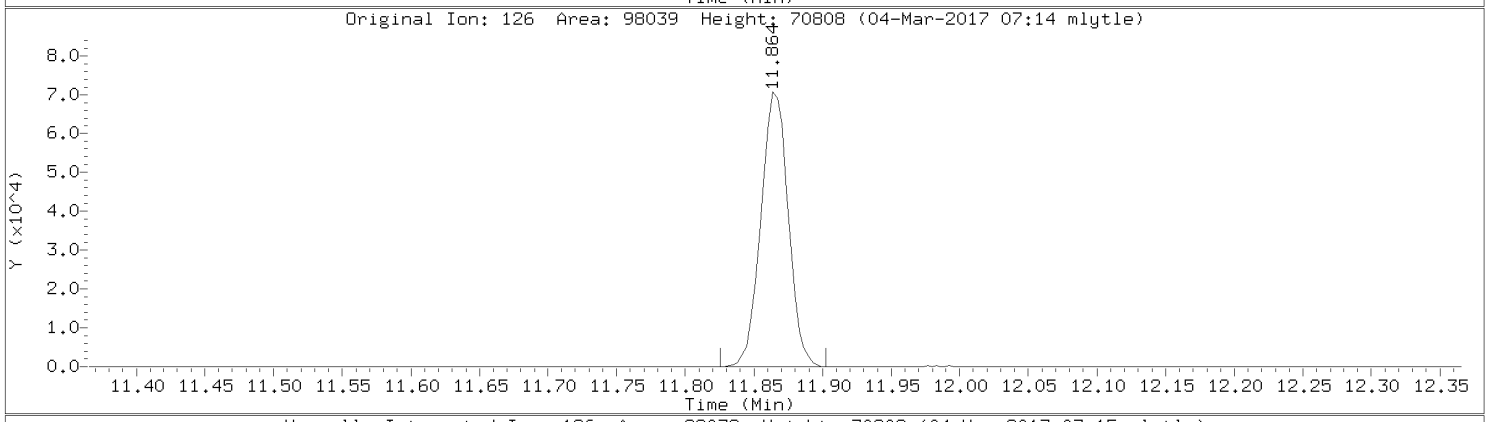


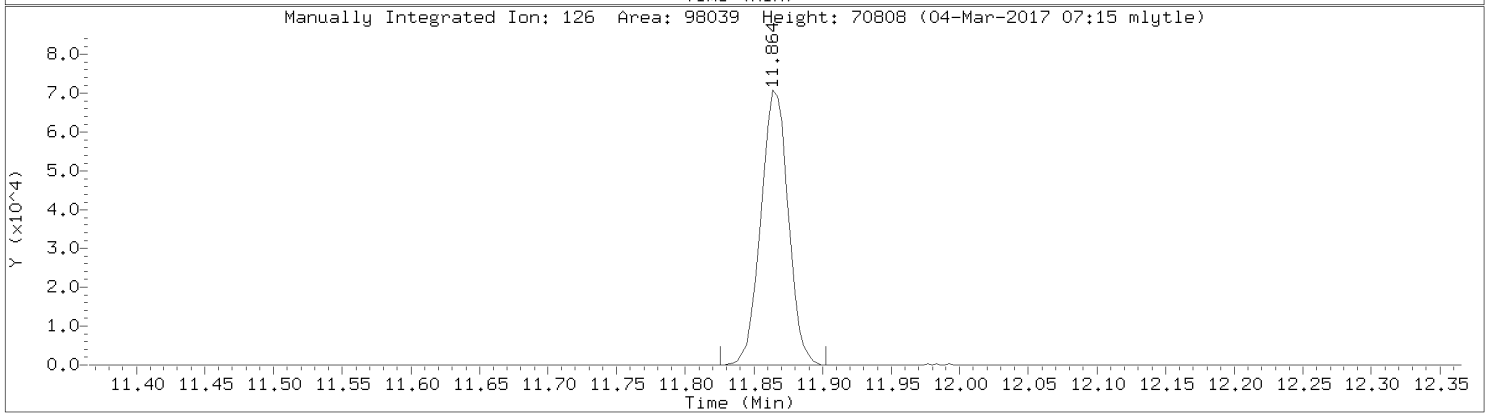
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: Benzyl Chloride
CAS Number: 100-44-7



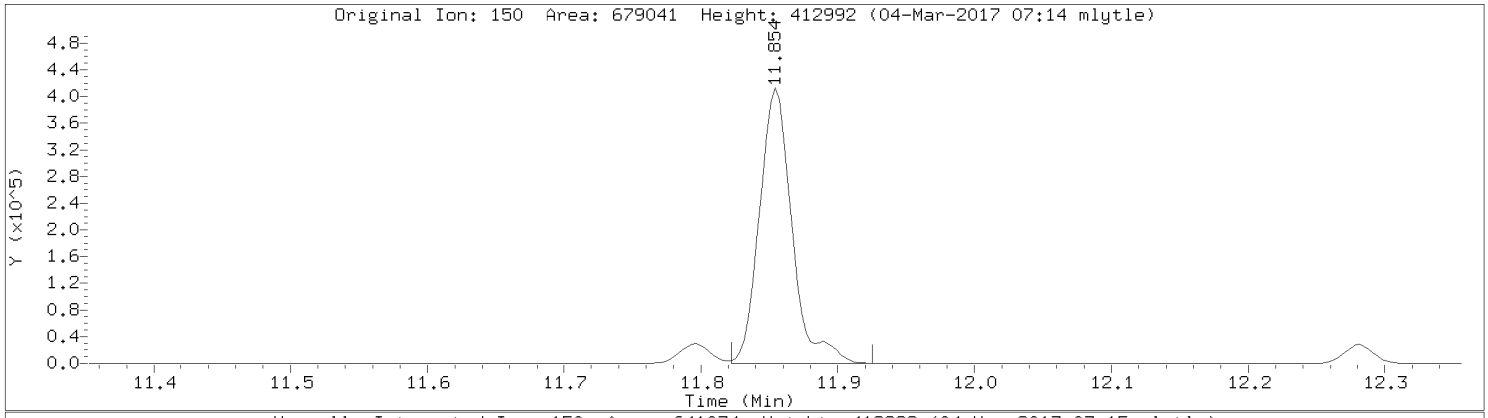


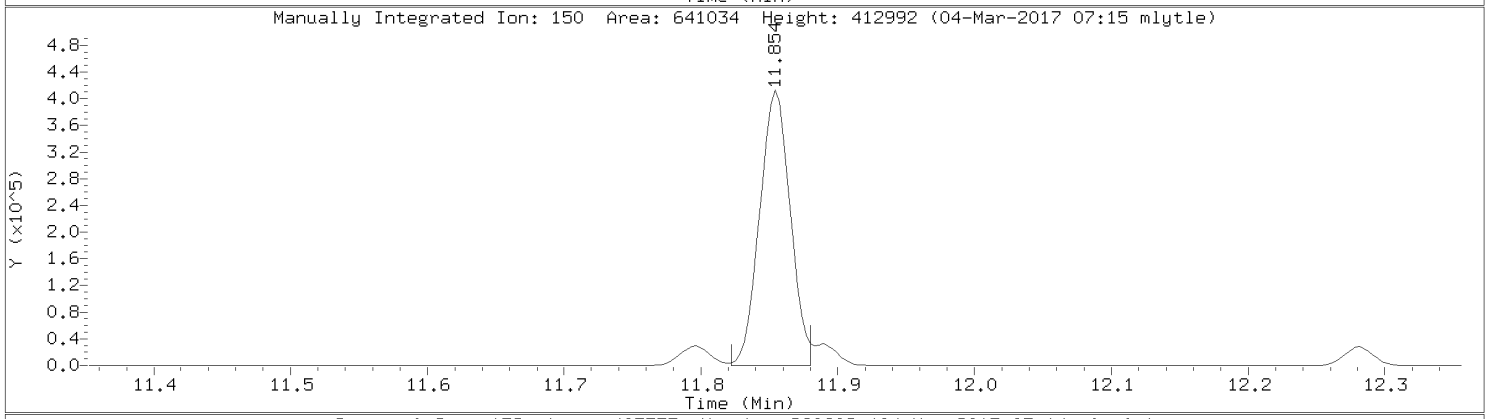


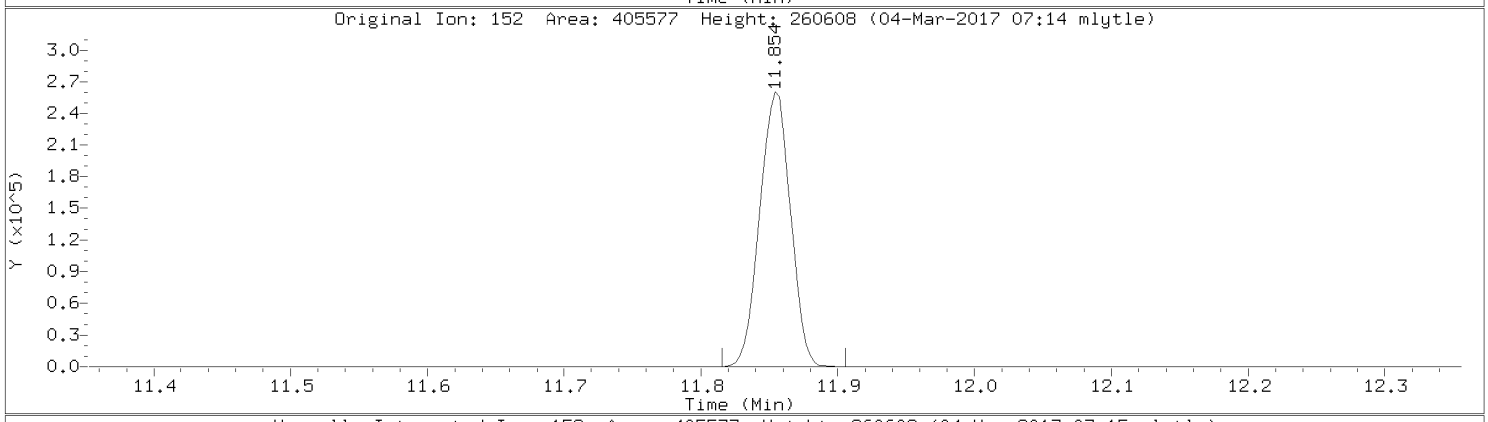


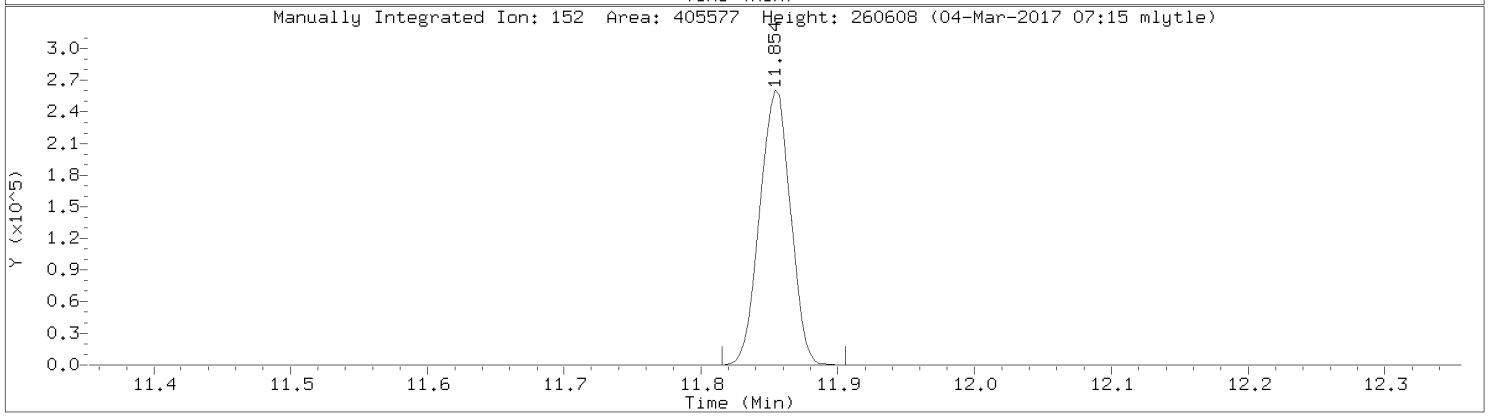
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Equation 1: Concentration of each component in the flask (Static Dilution Technique, section 10.4.1. S-MN-A-013 rev. 19).

$$\text{Concentration}(\text{mg/L}) = \frac{(V_i)(d)}{V_f}$$

where:

V_i =Volume of liquid neat standard injected into the flask in mL;
d=Density of the liquid neat standard in mg/mL;
V_f =Volume of the flask in liters.

Caution: In the preparation of standards by this technique, make sure that the volume of neat standard injected into the flask does not result in an overpressure due to the higher partial pressure produced by the standard compared to the vapor pressure in the flask.

Equation 2: First determine the volume of the compound as a gas.

$$V = \frac{nRT}{P} \quad \text{where,} \quad n = \frac{(V_i)(d)}{M}$$

where,
V=Volume of injected compound at STP in liters;
n=Moles;
R=Gas constant (0.08206 L-atm/mole ^{o}K);
T=Ambient temperature in ^{o}K;
P=Ambient pressure in atm;
V_i=Volume of liquid neat standard injected into the flask in mL;
d=Density of the neat standard in g/mL;
M=Molecular weight of the compound in g/mole.

Equation 3: Now calculate the concentration in the flask in ppbv.

$$\text{ppbv} = \frac{V}{V_f}(10^9)$$

where:
V=Gas volume of compound as determined in Eq. 8 in liters;
V_f=Volume of static dilution flask in liters.

Equation 4*:* The concentration in ppbv of each compound in the canister can be determined.

$$\text{ppbv} = \frac{(V_i)(C_x)}{V_c}$$

where:
V_i=Volume removed from static dilution flask and injected into the canister in liters;
C_x=Concentration of compound *x* in the static dilution flask in ppbv;
V_c=Final canister volume in liters.

Equation 5: Calculate the relative response factors (RRF) for each compound.

$$\text{Relative Response Factor (RRF)} = \frac{(A_x)(C_i)}{(A_i)(C_x)}$$

where,
A_x=Area of the primary ion for compound *x* to be measured;
A_i=Area of the primary ion for the internal standard associated with compound *x*;
C_i=Concentration of the internal standard in ppbv;
C_x =Concentration of compound *x* to be measured in ppbv.

Equation 6: Calculate the mean RRF for each compound.

$$\overline{R_f} = \frac{\sum_{n=5} R_f}{n}$$

where,
$\overline{R_f}$ =Average relative response factor;
R_f=Relative response factor from calibration curve;
n=Number of data points.

Equation 7: Standard Deviation.

$$\sigma_{(n-1)} = \sqrt{\sum_{i-1}^{n} \frac{(x_i - \bar{x})^2}{(n-1)}}$$

Equation 8: %Relative Standard Deviation (%RSD).

$$\%RSD = \frac{s_{(n-1)}}{\bar{R}_f} x100$$

Equation 9: Mean area response for Internal Standard.

$$\bar{y} = \sum_{i=1}^{n} \frac{y_i}{n}$$

where,

$\bar{y}$ = mean area response

y = Area response for the internal standard for each initial calibration standard

Equation 10: If a linear regression is used, the regression produces the slope and intercept terms for a linear equation.

y = ax + b

where:

y = instrument response (peak area or height)

a = Slope of the line (also called the coefficient of x)

x = Concentration of the calibration standard

b = the intercept, do not include the origin (0) as a calibration point

Equation 11: To calculate the sample concentration by the internal standard method using the linear regression.

$C_s=[(A_sC_{is}/A_{is})-b]/a$

where:

As = Area of the peak for the target analyte in the sample

Ais = Area of the peak of the internal standard

Cs = Concentration of the target analyte in the calibration standard

Cis = Concentration of the internal standard

a = Slope of the line (also called the coefficient of Cs)

b = The intercept

Equation 12: To calculate the coefficient of determination (or r^2) for a quadratic curve fit.

$$COD = \frac{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2 - \left(\frac{n-1}{n-p}\right)\sum_{i=1}^{n}(y_{obs} - Y_i)^2}{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2}$$

where:
y_{obs} = Observed response for each concentration from each initial calibration standard
y = Mean observed response from the initial calibration (See equation 6)
Y_i = Calculated response at each concentration from the initial calibration (See Equation 5)
n = Total number of calibration points in the equation, 6 points for quadratic
p = Number of adjustable parameters in the polynomial equation

Equation 13: Calculate the sample concentration by the internal standard method using the quadratic regression by comparing peak heights to the calibration curve.

Regression equation (quadratic):

$y = ax^2 + bx + c$

Equation 14: Percent Difference (%D). The % D in the RRF of the daily RRF of an individual compound compared to the mean RRF for that compound in the most recent calibration curve.

$$\%D = \frac{|R_i - R_c|}{R_i}(100)$$

where,

R_i=The average RRF from the initial calibration curve for compound *x*;
R_c=RRF for compound *x* from the CCV standard.

Equation 15: Calculate the percent recovery of the LCS.

$$\text{Percent Recovery} = \frac{C_q}{C_a}(100)$$

where:
C_q=Quantitated concentration of compound *x* in ppbv;
C_a=Actual concentration of compound *x* in ppbv.

Equation 16: Calculate the resultant dilution factor.

DF = (Pf + 14.7) / Pi + 14.7)

Pi = Pressure reading of canister prior to pressurization (psig)
Pf = Pressure reading of canister after pressurization (psig)
DF = Dilution factor

To convert Hg to psig:
Multiply by 0.491559 or divide by 2.036

PSIG reading is converted to One Atmosphere:
One Atmosphere = 14.7 psig = 29.21 inches of Hg

Equation 17: Calculate the concentration of the sample component.

$$C_x = \frac{(A_x)(C_i)(D_f)}{(A_i)(R_f)}$$

where:

C_x=Concentration of compound *x* in ppbv;
A_x=EICP area of the quantitation ion for compound *x*;
C_i=Concentration of the internal standard associated with compound *x* in ppbv;
D_f=Dilution factor from Equation 12 (if no dilution was performed, D_f equals 1.)
A_i=EICP area of the quantitation ion for the internal standard associated with compound *x*;
R_f=Average RRF for compound *x* from the most recent calibration curve.

Equation 18: The RPD between the sample and the sample duplicate.

$$RPD = \frac{|A - B|}{(A + B)/2} \times 100$$

Where:

RPD = Relative Percent Difference
A = Sample Value
B = Duplicate Value

Equation 19: Convert ppbv to µg/m³.

$$\frac{(x\ ppbv \times MW\frac{g}{mol})}{24.055\frac{L}{mol}} = y\frac{\mu g}{m^3}$$

Where:

MW = Molecular Weight
24.055 L/mol = Molar Volume of an ideal Gas

$$PV = nRT$$

$$V = \frac{nRT}{P}$$

Where:

V = Volume in liters
N = mols of ideal Gas (1 mol)
R = Ideal gas constant
T = Temperatire in Kelvin

$$V = \frac{(1mol) \times (0.082\ \frac{(L \times atm)}{(mol \times K)} \times 293.15K}{1\ atm}$$

$$V = 24.055\frac{L}{mol}$$

Equation 20: Preparation of Working TO15 Standard.

$$\frac{X}{Y} \times C = Z$$

Where:

X = Volume (L) spiked from stock
Y = Volume (L) of container
C = Concentration (ppbv) of Stock
Z = Concentration (ppbv) of working standard

DATA USABILITY SUMMARY REPORT
FEBRUARY/MARCH 2017 AIR SAMPLES
LOCKHEED MARTIN CORPORATION: GREAT NECK SITE
NEW YORK
DATE SAMPLES COLLECTED: FEBRUARY 21, 2017

LAB REPORT No. 10379929

1.0 INTRODUCTION

Eighteen air samples were collected by Tetra Tech, Inc., at the Lockheed Martin Corporation Great Neck site, on February 21, 2017. The samples were sent to Pace Analytical Services, LLC in Minneapolis, Minnesota. All analyses were conducted in accordance with USEPA TO-15 analytical and reporting protocols.

The data package deliverables provided by the laboratory included a Category B deliverable as outlined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols.

Data validation was performed on the aforementioned samples in accordance with EPA Region II data validation guidelines and USEPA Method TO-15. Data validation was conducted using USEPA Region II Standard Operating Procedure (SOP) HW-31, September 2016, Revision 6.

The Data Usability Summary Report (DUSR) was prepared after the process of data validation was completed and summarizes the overall data quality and usability in accordance with the NYSDEC Technical Guidance for Site Investigation and Remediation (NYSDEC 2010).

The DUSR review is based on the following parameters:

- Data completeness
- * Hold times/Sample Preservation
- * GC/MS System Tuning and Performance
- Initial/continuing calibrations
- * Laboratory Method Blank Results
- * Internal Standard Results
- * Laboratory Control Sample Results
- * Laboratory Duplicate Precision
- Field Duplicate Precision
- * Compound Identification/Quantitation
- * Tentatively Identified Compounds Results
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

This report was prepared to provide a critical review of the laboratory analysis and reported chemical results. Overall, the data quality is acceptable. The results of the DUSR are presented in Section 3.0. Summary tables are provided. Attachments 1, 2, and 3 are provided so that the data user can review the qualified analytical results, results reported by the laboratory and the supporting documentation associated with data findings and data quality.

2.0 SAMPLES INCLUDED IN REVIEW

Lab Report No. 10379929

Sample ID	Lab ID	Date Collected	Test Requested
FPM-20_5_20170221	10379929009	2/21/17	VOCs
FPM-20_5_20170221DUP	10379929018	2/21/17	VOCs
FPM-20_9.4_20170221	10379929010	2/21/17	VOCs
VP-104_10_20170221	10379929002	2/21/17	VOCs
VP-104_19_20170221	10379929003	2/21/17	VOCs
VP-104_30_20170221	10379929004	2/21/17	VOCs
VP-104_40_20170221	10379929005	2/21/17	VOCs
VP-104_5_20170221	10379929001	2/21/17	VOCs
VP-104_50_20170221	10379929006	2/21/17	VOCs
VP-104_62_20170221	10379929007	2/21/17	VOCs
VP-104_73_20170221	10379929008	2/21/17	VOCs
VP-8_10_20170221	10379929012	2/21/17	VOCs
VP-8_20_20170221	10379929013	2/21/17	VOCs
VP-8_5_20170221	10379929011	2/21/17	VOCs
VP-8D_53.5_20170221	10379929014	2/21/17	VOCs
VP-8D_62.5_20170221	10379929015	2/21/17	VOCs
VP-8D_62.5_20170221DUP	10379929017	2/21/17	VOCs
VP-8D_72.5_20170221	10379929016	2/21/17	VOCs

Legend:

VOCs = Volatile Organic Compounds in accordance with EPA TO-15 Method

3.0 RESULTS

3.1 DATA COMPLETENESS

With the exception of clean canister certification batch samples, the data package deliverables were complete and the format requirements were met. Clean canister certification samples should be included in every data package to verify the canister cleaning was performed according to method requirements. The laboratory was contacted and described that they perform canister cleaning on all sample containers but only provide analysis on a single canister on a batch basis. The lab was asked to provide the clean canister results but the results were not available at the time this report was completed.

3.2 ORGANIC QUALIFIERS

Hold Times/Sample Preservation: Technical hold times and preservation were assessed by comparing the sample dates and preservation code on the sample Chain of Custody (COC) with that of the analysis dates.

- All project samples were properly preserved and analyzed within the required hold time for VOC analyses.

GC/MS Performance Check (Tuning) Summary: Gas chromatograph/mass spectrometer (GC/MS) instrument tuning and performance checks are performed to ensure the instrument's ability to provide appropriate mass-resolution, identification and sensitivity.

- The BFB tuning compound mass-ion abundance criteria for the VOC analyses were reported within control limits.

Initial and Continuing Calibration Results: Control limits for initial and continuing instrument calibrations are established to ensure that the instrument is capable of producing accurate quantitative data. The following issues were noted:

- The continuing calibration performed on 03/05/2017 @ 10:57 had a Percent Difference (%D) for cis-1,2-dichloroethene above the quality control limit. Samples VP-8D_72.5_20170221-DL, VP-8D_62.5_20170221-DL and VP-8D_53.5_20170221-DL were affected. The detected results reported for this compound in the affected samples were qualified as estimated, (J).

- All other initial and continuing calibration response factors and percent relative standard deviations were within acceptable quality control limits for the parameters reviewed.

Laboratory Method Contamination:

- No target compound contaminants were detected in the laboratory method blank associated with the reviewed parameters in this data set.

- Methylene chloride was detected in 17 of 18 samples. Methylene chloride was not reported or detected in the associated laboratory method blanks. Despite the absence of methylene chloride in the method blanks, the data reviewer has qualified all methylene chloride detections as estimated, (J) considering them suspected laboratory contaminants.

Internal Standards Area Performance:

- The internal standard area counts and retention times fell within control limits for the project samples received and reviewed.

Laboratory Control Spike (LCS) Results:

- All LCS recoveries were compliant.

Laboratory Duplicate Precision: Laboratory duplicates provide information on laboratory precision.

- The laboratory duplicate precision Relative Percent Differences (RPDs) fell within control limits, thereby satisfying laboratory precision.

Field Duplicate Precision: Field duplicates are collected to provide information on sampling precision.

- FPM-20_5_20170221DUP was collected as a field duplicate sample of FPM-20_5_20170221. The RPDs associated with these two samples fell within quality control limits, thereby satisfying precision.

- VP-8D_62.5_20170221DUP was collected as a field duplicate sample of VP-8D_62.5_20170221. The RPDs exceeded the 50% quality control limit or the difference was greater than 2X the reporting limit for 1,1,2-trichloroethane, 1,1,2-trichlorotrifluoroethane, 1,1-dichloroethene, chlorodifluoromethane, chloroform, trans-1,2-dichloroethene, trichlorofluoromethane, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, methylene chloride and toluene. The detected results reported for these compounds in the field duplicate pair were qualified as estimated, (J).

- The remaining results associated with these two samples fell within quality control limits, thereby satisfying precision.

Target Compound Identification and Quantitation: The laboratory calculations are verified and compound identifications are reviewed and assessed by the data reviewer.

- The GC/MS raw data (quantitation reports and chromatograms) were provided for review. No laboratory calculation errors were noted for the sample selected for verification during data validation.

Tentatively Identified Compounds (TIC) Results: A targeted TIC library search was conducted for each sample for the compound 1,2-difluoroethane.

- 1,2-Difluoroethane was not detected in the targeted TIC library search in the reviewed samples. No Reporting Limit (RL) was assigned. This compound was not included on the sample Form Is or the electronic deliverable.

Detection Limits: Non-detected results were reported to the RL.

- Methylene chloride exceeded the calibration range of the instrument in sample VP-8D_53.5_20170221. The laboratory reanalyzed the sample at a 1569X dilution resulting in a nondetected result. The original result was chosen and qualified as estimated, (J).

- The following samples were further diluted due to concentrations of target compounds:

Sample	Compound	Dilution
VP-104_50_20170221	tetrachloroethene	35X
	trichloroethene	35X
VP-104_62_20170221	trichloroethene	17.5X
VP-104_73_20170221	tetrachloroethene	35X
	trichloroethene	35X
VP-8D_53.5_20170221	cis-1,2-dichloroethene	1569X
	tetrachloroethene	1569X

	trichloroethene	1569X
VP-8D_62.5_20170221	cis-1,2-dichloroethene	560X
	tetrachloroethene	560X
	trichloroethene	560X
VP-8D-72.5-20170221	cis-1,2-dichloroethene	585.6X
	tetrachloroethene	585.6X
	trichloroethene	585.6X
VP-8D_62.5_2017022DUP	tetrachloroethene	292.8X
	trichloroethene	292.8X

The results from the diluted analyses were used in the data review.

- Detected result reported below the RL but above the MDL were qualified as estimated, "J".

Additional Comments: According to the laboratory, the sample canisters were batch certified. All sample canisters contained an initial vacuum of approximately -30 psig (-27 to -30 psig) and finished at sub atmospheric pressures (-8 to -10).

4.0 CONCLUSIONS

Overall, based on the outcome of data validation as summarized in the DUSR, and with exception to the presence of methylene chloride which may be a laboratory contaminant in the opinion of the data reviewer, the data quality is acceptable with the qualifiers noted in this report.

Tetra Tech, Inc.
Terri L. Solomon
Chemist/Data Validator

for

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

May 16, 2017

Attachments:

Attachment 1 – Qualified Analytical Results
Attachment 2 – Results as Reported by the Laboratory
Attachment 3 – Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Appendix A

Qualified Analytical Results

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed
Z3 = Tentatively Identified Compound aldol condensate
Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 07792	NSAMPLE	FPM-20_5_20170221			FPM-20_5_20170221DUP			FPM-20_9.4_20170221			VP-104_10_20170221		
SDG: 10379929	LAB_ID	10379929009			10379929018			10379929010			10379929002		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF				FPM-20_5_20170221								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE		1.3	U		1.3	U		1.3	U		1.3	U	
1,1,2-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.9	U		2.9	U		2.9	U		2.9	U	
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.8	U		5.8	U		5.8	U		5.8	U	
1,1-DICHLOROETHANE		1.5	U		1.5	U		1.5	U		1.5	U	
1,1-DICHLOROETHENE		1.5	U		1.5	U		1.5	U		1.5	U	
1,2,4-TRICHLOROBENZENE		6.9	U		6.9	U		6.9	U		6.9	U	
1,2,4-TRIMETHYLBENZENE		1.8	U		1.8	U		1.8	U		1.8	U	
1,2-DIBROMO-3-CHLOROPROPANE		9	U		9	U		9	U		9	U	
1,2-DIBROMOETHANE		2.9	U		2.9	U		2.9	U		2.9	U	
1,2-DICHLOROBENZENE		2.2	U		2.2	U		2.2	U		2.2	U	
1,2-DICHLOROETHANE		0.75	U		0.75	U		0.75	U		0.75	U	
1,2-DICHLOROPROPANE		1.7	U		1.7	U		1.7	U		1.7	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.6	U		2.6	U		2.6	U		2.6	U	
1,3,5-TRIMETHYLBENZENE		1.8	U		1.8	U		1.8	U		1.8	U	
1,3-BUTADIENE		0.82	U		0.82	U		0.82	U		0.82	U	
1,3-DICHLOROBENZENE		2.2	U		2.2	U		2.2	U		2.2	U	
1,4-DICHLOROBENZENE		2.2	U		2.2	U		2.2	U		2.2	U	
1,4-DIOXANE		6.7	U		6.7	U		6.7	U		6.7	U	
1-ETHYL-4-METHYL BENZENE		1.8	U		1.8	U		1.8	U		1.8	U	
2-BUTANONE		1.3	J	P	5.2	J	P	1.5	J	P	1.7	J	P
2-HEXANONE		7.6	U		7.6	U		7.6	U		7.6	U	
3-CHLOROPROPENE		2.9	U		2.9	U		2.9	U		2.9	U	
4-METHYL-2-PENTANONE		7.6	U		7.6	U		7.6	U		7.6	U	
ACETONE		28.1			30.6			19.2			6		
BENZENE		1.6			1.4			0.59	U		0.59	U	
BROMODICHLOROMETHANE		2.5	U		2.5	U		2.5	U		2.5	U	
BROMOFORM		3.8	U		3.8	U		3.8	U		3.8	U	
BROMOMETHANE		1.4	U		1.4	U		1.4	U		1.4	U	
CARBON DISULFIDE		1.3			1.2	U		1.2	U		1.2	U	
CARBON TETRACHLORIDE		1.2	U		1.2	U		1.2	U		1.2	U	
CHLOROBENZENE		1.7	U		1.7	U		1.7	U		1.7	U	
CHLORODIBROMOMETHANE		3.2	U		3.2	U		3.2	U		3.2	U	
CHLORODIFLUOROMETHANE		1.3	U		1.3	U		1.3	U		1.3	U	

PROJ_NO: 07792	NSAMPLE	VP-104_19_20170221			VP-104_30_20170221			VP-104_40_20170221			VP-104_5_20170221		
SDG: 10379929	LAB_ID	10379929003			10379929004			10379929005			10379929001		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.9	U		1.9	U		1.9	U		1.9	U	
1,1,2,2-TETRACHLOROETHANE		1.2	U		1.2	U		1.2	U		1.2	U	
1,1,2-TRICHLOROETHANE		0.96	U		0.96	U		0.96	U		0.96	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		21.7			150			95.1			0.71	J	P
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	U		5.6	U		5.6	U		5.6	U	
1,1-DICHLOROETHANE		1.4	U		1.4	U		1.4	U		1.4	U	
1,1-DICHLOROETHENE		1.4	U		1.4	U		1.4	U		1.4	U	
1,2,4-TRICHLOROBENZENE		6.6	U		6.6	U		6.6	U		6.6	U	
1,2,4-TRIMETHYLBENZENE		1.7	U		1.7	U		1.7	U		1.2	J	P
1,2-DIBROMO-3-CHLOROPROPANE		8.6	U		8.6	U		8.6	U		8.6	U	
1,2-DIBROMOETHANE		2.7	U		2.7	U		2.7	U		2.7	U	
1,2-DICHLOROBENZENE		2.1	U		2.1	U		2.1	U		2.1	U	
1,2-DICHLOROETHANE		0.72	U		0.72	U		0.72	U		0.72	U	
1,2-DICHLOROPROPANE		1.6	U		1.6	U		1.6	U		1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U		2.5	U		2.5	U		2.5	U	
1,3,5-TRIMETHYLBENZENE		1.7	U		1.7	U		1.7	U		1.7	U	
1,3-BUTADIENE		0.79	U		0.79	U		0.79	U		0.79	U	
1,3-DICHLOROBENZENE		2.1	U		2.1	U		2.1	U		2.1	U	
1,4-DICHLOROBENZENE		2.1	U		2.1	U		2.1	U		2.1	U	
1,4-DIOXANE		6.4	U		6.4	U		6.4	U		6.4	U	
1-ETHYL-4-METHYL BENZENE		1.8	U		1.8	U		1.8	U		1.1	J	P
2-BUTANONE		1.8	J	P	2.5	J	P	2.3	J	P	3	J	P
2-HEXANONE		7.3	U		7.3	U		7.3	U		7.3	U	
3-CHLOROPROPENE		2.8	U		2.8	U		2.8	U		2.8	U	
4-METHYL-2-PENTANONE		7.3	U		7.3	U		7.3	U		7.3	U	
ACETONE		7.1			10			8.8			16.1		
BENZENE		0.57	U		0.57	U		0.57	U		0.63		
BROMODICHLOROMETHANE		2.4	U		2.4	U		2.4	U		2.4	U	
BROMOFORM		3.7	U		3.7	U		3.7	U		3.7	U	
BROMOMETHANE		1.4	U		1.4	U		1.4	U		1.4	U	
CARBON DISULFIDE		1.1	U		1.1	U		1.1	U		1.1	U	
CARBON TETRACHLORIDE		1.1	U		1.1	U		1.1	U		1.1	U	
CHLOROBENZENE		1.6	U		1.6	U		1.6	U		1.6	U	
CHLORODIBROMOMETHANE		3	U		3	U		3	U		3	U	
CHLORODIFLUOROMETHANE		1.3	U		1.3	U		1.3	U		1.3	U	

PROJ_NO: 07792	NSAMPLE	VP-104_50_20170221			VP-104_50_20170221-DL			VP-104_62_20170221			VP-104_62_20170221-DL		
SDG: 10379929	LAB_ID	10379929006			10379929006			10379929007			10379929007		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.4	J	P				1.9	U				
1,1,2,2-TETRACHLOROETHANE		1.2	U					1.2	U				
1,1,2-TRICHLOROETHANE		0.96	U					0.96	U				
1,1,2-TRICHLOROTRIFLUOROETHANE		58.2						28.1					
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	U					5.6	U				
1,1-DICHLOROETHANE		1.4	U					1.4	U				
1,1-DICHLOROETHENE		1.4	U					1.4	U				
1,2,4-TRICHLOROBENZENE		6.6	U					6.6	U				
1,2,4-TRIMETHYLBENZENE		1.7	U					1.7	U				
1,2-DIBROMO-3-CHLOROPROPANE		8.6	U					8.6	U				
1,2-DIBROMOETHANE		2.7	U					2.7	U				
1,2-DICHLOROBENZENE		2.1	U					2.1	U				
1,2-DICHLOROETHANE		0.72	U					0.72	U				
1,2-DICHLOROPROPANE		1.6	U					1.6	U				
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U					2.5	U				
1,3,5-TRIMETHYLBENZENE		1.7	U					1.7	U				
1,3-BUTADIENE		0.79	U					0.79	U				
1,3-DICHLOROBENZENE		2.1	U					2.1	U				
1,4-DICHLOROBENZENE		2.1	U					2.1	U				
1,4-DIOXANE		6.4	U					6.4	U				
1-ETHYL-4-METHYL BENZENE		1.8	U					1.8	U				
2-BUTANONE		1.8	J	P				2.6	J	P			
2-HEXANONE		7.3	U					7.3	U				
3-CHLOROPROPENE		2.8	U					2.8	U				
4-METHYL-2-PENTANONE		7.3	U					7.3	U				
ACETONE		9.2						18.7					
BENZENE		0.47	J	P				0.45	J	P			
BROMODICHLOROMETHANE		2.4	U					2.4	U				
BROMOFORM		3.7	U					3.7	U				
BROMOMETHANE		1.4	U					1.4	U				
CARBON DISULFIDE		1.1	U					1.1	U				
CARBON TETRACHLORIDE		1	J	P				0.69	J	P			
CHLOROBENZENE		1.6	U					1.6	U				
CHLORODIBROMOMETHANE		3	U					3	U				
CHLORODIFLUOROMETHANE		156						88.4					

PROJ_NO: 07792	NSAMPLE	VP-104_73_20170221			VP-104_73_20170221-DL			VP-8_10_20170221			VP-8_20_20170221		
SDG: 10379929	LAB_ID	10379929008			10379929008			10379929012			10379929013		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.7	J	P				1.9	U		2.5	U	
1,1,2,2-TETRACHLOROETHANE		1.2	U					1.2	U		1.5	U	
1,1,2-TRICHLOROETHANE		0.96	U					0.92	U		1.2	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		64.3						2.7	U		3.5	U	
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	U					5.3	U		7	U	
1,1-DICHLOROETHANE		1.4	U					1.4	U		1.8	U	
1,1-DICHLOROETHENE		1.4	U					1.4	U		1.8	U	
1,2,4-TRICHLOROBENZENE		6.6	U					6.3	U		8.3	U	
1,2,4-TRIMETHYLBENZENE		1.7	U					1.7	U		2.2	U	
1,2-DIBROMO-3-CHLOROPROPANE		8.6	U					8.2	U		10.9	U	
1,2-DIBROMOETHANE		2.7	U					2.6	U		3.4	U	
1,2-DICHLOROBENZENE		2.1	U					2	U		2.7	U	
1,2-DICHLOROETHANE		0.72	U					0.69	U		0.91	U	
1,2-DICHLOROPROPANE		1.6	U					1.6	U		2.1	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U					2.4	U		3.1	U	
1,3,5-TRIMETHYLBENZENE		1.7	U					1.7	U		2.2	U	
1,3-BUTADIENE		0.79	U					0.76	U		0.99	U	
1,3-DICHLOROBENZENE		2.1	U					2	U		2.7	U	
1,4-DICHLOROBENZENE		2.1	U					2	U		2.7	U	
1,4-DIOXANE		6.4	U					6.1	U		8.1	U	
1-ETHYL-4-METHYL BENZENE		1.8	U					1.7	U		2.2	U	
2-BUTANONE		2	J	P				2	J	P	6.3	J	P
2-HEXANONE		7.3	U					7	U		1.6	J	P
3-CHLOROPROPENE		2.8	U					2.7	U		3.5	U	
4-METHYL-2-PENTANONE		1.9	J	P				7	U		9.2	U	
ACETONE		11						9.2			19.5		
BENZENE		0.3	J	P				0.55	U		0.72	U	
BROMODICHLOROMETHANE		2.4	U					2.3	U		3	U	
BROMOFORM		3.7	U					3.5	U		4.6	U	
BROMOMETHANE		1.4	U					1.3	U		1.7	U	
CARBON DISULFIDE		0.68	J	P				1.1	U		1.4	U	
CARBON TETRACHLORIDE		0.95	J	P				1.1	U		1.4	U	
CHLOROBENZENE		1.6	U					1.6	U		2.1	U	
CHLORODIBROMOMETHANE		3	U					2.9	U		3.8	U	
CHLORODIFLUOROMETHANE		189						1.2	U		7.9		

PROJ_NO: 07792	NSAMPLE	VP-8_5_20170221			VP-8D_53.5_20170221			VP-8D_53.5_20170221-DL			VP-8D_62.5_20170221		
SDG: 10379929	LAB_ID	10379929011			10379929014			10379929014			10379929015		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.9	U		2.7	U					1	J	P
1,1,2,2-TETRACHLOROETHANE		1.2	U		1.7	U					1.2	U	
1,1,2-TRICHLOROETHANE		0.92	U		11.7						12.1	J	G
1,1,2-TRICHLOROTRIFLUOROETHANE		2.7	U		308						402	J	G
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.3	U		7.8	U					5.6	U	
1,1-DICHLOROETHANE		1.4	U		2	U					1.4	U	
1,1-DICHLOROETHENE		1.4	U		10.4						7	J	G
1,2,4-TRICHLOROBENZENE		6.3	U		9.2	U					6.6	U	
1,2,4-TRIMETHYLBENZENE		1.7	U		1.5	J	P				1.7	U	
1,2-DIBROMO-3-CHLOROPROPANE		8.2	U		12	U					8.6	U	
1,2-DIBROMOETHANE		2.6	U		3.8	U					2.7	U	
1,2-DICHLOROBENZENE		2	U		3	U					2.1	U	
1,2-DICHLOROETHANE		0.69	U		1	U					0.72	U	
1,2-DICHLOROPROPANE		1.6	U		2.3	U					1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.4	U		3.5	U					2.5	U	
1,3,5-TRIMETHYLBENZENE		1.7	U		2.4	U					1.7	U	
1,3-BUTADIENE		0.76	U		1.1	U					0.79	U	
1,3-DICHLOROBENZENE		2	U		3	U					2.1	U	
1,4-DICHLOROBENZENE		2	U		3	U					2.1	U	
1,4-DIOXANE		6.1	U		9	U					6.4	U	
1-ETHYL-4-METHYL BENZENE		1.7	U		1.6	J	P				1.8	U	
2-BUTANONE		6.1			7.4	U					5.2	U	
2-HEXANONE		1.6	J	P	10.2	U					1	J	P
3-CHLOROPROPENE		2.7	U		3.9	U					2.8	U	
4-METHYL-2-PENTANONE		7	U		10.2	U					7.3	U	
ACETONE		23.7			217						15.2		
BENZENE		0.48	J	P	2.1						0.71		
BROMODICHLOROMETHANE		2.3	U		3.3	U					2.4	U	
BROMOFORM		3.5	U		5.1	U					3.7	U	
BROMOMETHANE		1.3	U		1.9	U					1.4	U	
CARBON DISULFIDE		1.1	U		1.5	U					1.1	U	
CARBON TETRACHLORIDE		1.1	U		1.4	J	P				0.83	J	P
CHLOROBENZENE		1.6	U		2.3	U					1.6	U	
CHLORODIBROMOMETHANE		2.9	U		4.2	U					3	U	
CHLORODIFLUOROMETHANE		1.2	U		142						171	J	G

PROJ_NO: 07792	NSAMPLE	VP-8D_62.5_20170221-DL			VP-8D_62.5_20170221DUP			VP-8D_62.5_20170221DUP-DL			VP-8D_72.5_20170221		
SDG: 10379929	LAB_ID	10379929015			10379929017			10379929017			10379929016		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF				VP-8D_62.5_20170221			VP-8D_62.5_20170221					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					2	U					1	J	P
1,1,2,2-TETRACHLOROETHANE					1.3	U					1.3	U	
1,1,2-TRICHLOROETHANE					5.5	J	G				7.1		
1,1,2-TRICHLOROTRIFLUOROETHANE					181	J	G				433		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					5.8	U					5.8	U	
1,1-DICHLOROETHANE					1.5	U					1.5	U	
1,1-DICHLOROETHENE					3.1	J	G				4.6		
1,2,4-TRICHLOROBENZENE					6.9	U					6.9	U	
1,2,4-TRIMETHYLBENZENE					1.8	U					1.8	U	
1,2-DIBROMO-3-CHLOROPROPANE					9	U					9	U	
1,2-DIBROMOETHANE					2.9	U					2.9	U	
1,2-DICHLOROBENZENE					2.2	U					2.2	U	
1,2-DICHLOROETHANE					0.75	U					0.75	U	
1,2-DICHLOROPROPANE					1.7	U					1.7	U	
1,2-DICHLOROTETRAFLUOROETHANE					2.6	U					2.6	U	
1,3,5-TRIMETHYLBENZENE					1.8	U					1.8	U	
1,3-BUTADIENE					0.82	U					0.82	U	
1,3-DICHLOROBENZENE					2.2	U					2.2	U	
1,4-DICHLOROBENZENE					2.2	U					2.2	U	
1,4-DIOXANE					6.7	U					6.7	U	
1-ETHYL-4-METHYL BENZENE					1.8	U					1.8	U	
2-BUTANONE					5.5	U					5.5	U	
2-HEXANONE					7.6	U					1.3	J	P
3-CHLOROPROPENE					2.9	U					2.9	U	
4-METHYL-2-PENTANONE					7.6	U					7.6	U	
ACETONE					7.8						18.1		
BENZENE					0.58	J	P				0.65		
BROMODICHLOROMETHANE					2.5	U					2.5	U	
BROMOFORM					3.8	U					3.8	U	
BROMOMETHANE					1.4	U					1.4	U	
CARBON DISULFIDE					1.2	U					1.2	U	
CARBON TETRACHLORIDE					1.2	U					0.67	J	P
CHLOROBENZENE					1.7	U					0.87	J	P
CHLORODIBROMOMETHANE					3.2	U					3.2	U	
CHLORODIFLUOROMETHANE					76.4	J	G				168		

PROJ_NO: 07792	NSAMPLE	VP-8D_72.5_20170221-DL		
SDG: 10379929	LAB_ID	10379929016		
FRACTION: OV	SAMP_DATE	2/21/2017		
MEDIA: AIR	QC_TYPE	NM		
	UNITS	UG/M3		
	PCT_SOLIDS			
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE				
1,1,2,2-TETRACHLOROETHANE				
1,1,2-TRICHLOROETHANE				
1,1,2-TRICHLOROTRIFLUOROETHANE				
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE				
1,1-DICHLOROETHANE				
1,1-DICHLOROETHENE				
1,2,4-TRICHLOROBENZENE				
1,2,4-TRIMETHYLBENZENE				
1,2-DIBROMO-3-CHLOROPROPANE				
1,2-DIBROMOETHANE				
1,2-DICHLOROBENZENE				
1,2-DICHLOROETHANE				
1,2-DICHLOROPROPANE				
1,2-DICHLOROTETRAFLUOROETHANE				
1,3,5-TRIMETHYLBENZENE				
1,3-BUTADIENE				
1,3-DICHLOROBENZENE				
1,4-DICHLOROBENZENE				
1,4-DIOXANE				
1-ETHYL-4-METHYL BENZENE				
2-BUTANONE				
2-HEXANONE				
3-CHLOROPROPENE				
4-METHYL-2-PENTANONE				
ACETONE				
BENZENE				
BROMODICHLOROMETHANE				
BROMOFORM				
BROMOMETHANE				
CARBON DISULFIDE				
CARBON TETRACHLORIDE				
CHLOROBENZENE				
CHLORODIBROMOMETHANE				
CHLORODIFLUOROMETHANE				

PROJ_NO: 07792	NSAMPLE	FPM-20_5_20170221			FPM-20_5_20170221DUP			FPM-20_9.4_20170221			VP-104_10_20170221		
SDG: 10379929	LAB_ID	10379929009			10379929018			10379929010			10379929002		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF				FPM-20_5_20170221								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.99	U		0.99	U		0.99	U		0.99	U	
CHLOROFORM		0.91	U		0.91	U		4.7			0.91	U	
CHLOROMETHANE		1.1			0.92			0.77	U		0.77	U	
CIS-1,2-DICHLOROETHENE		1.5	U		1.5	U		1.5	U		1.5	U	
CIS-1,3-DICHLOROPROPENE		1.7	U		1.7	U		1.7	U		1.7	U	
CYCLOHEXANE		1.3	J	P	0.98	J	P	1.3	U		1.3	U	
DICHLORODIFLUOROMETHANE		2.7			2.1			2.4			2		
ETHYLBENZENE		10.1			8.7			1.6	U		1.6	U	
HEXACHLOROBUTADIENE		4	U		4	U		4	U		4	U	
HEXANE		2.5			2.3			0.69	J	P	1	J	P
ISOPROPANOL		51.8			39.7			2.8	J	P	2.5	J	P
ISOPROPYLBENZENE		4.6	U		4.6	U		4.6	U		4.6	U	
M+P-XYLENES		43.3			38			3.2	U		3.2	U	
METHYL ACETATE		2.8	U		2.8	U		2.8	U		2.8	U	
METHYL CYCLOHEXANE		1.5	U		1.5	U		1.5	U		1.5	U	
METHYL TERT-BUTYL ETHER		6.7	U		6.7	U		6.7	U		6.7	U	
METHYLENE CHLORIDE		13.5	J	A	8.6	J	A	5.6	J	AP	38.3	J	A
O-XYLENE		11			9.7			1.6	U		1.6	U	
PENTAFLUOROETHYL CHLORIDE		5.9	U		5.9	U		5.9	U		5.9	U	
STYRENE		1.4	J	P	0.84	J	P	1.6	U		1.6	U	
TETRACHLOROETHENE		1.3	U		1.3	U		3			1.9		
TOLUENE		4.2			3.6			6.7			4.4		
TRANS-1,2-DICHLOROETHENE		1.5	U		1.5	U		1.5	U		1.5	U	
TRANS-1,3-DICHLOROPROPENE		1.7	U		1.7	U		1.7	U		1.7	U	
TRICHLOROETHENE		1	U		2.7			1.1			1	U	
TRICHLOROFLUOROMETHANE		1.5	J	P	1.2	J	P	1.3	J	P	1.1	J	P
VINYL CHLORIDE		0.48	U		0.48	U		0.48	U		0.48	U	

PROJ_NO: 07792	NSAMPLE	VP-104_19_20170221			VP-104_30_20170221			VP-104_40_20170221			VP-104_5_20170221		
SDG: 10379929	LAB_ID	10379929003			10379929004			10379929005			10379929001		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.94	U		0.94	U		0.94	U		0.94	U	
CHLOROFORM		2.4			4.8			6.2			0.87	U	
CHLOROMETHANE		0.74	U		0.74	U		0.74	U		0.95		
CIS-1,2-DICHLOROETHENE		8.8			18			29.2			1.4	U	
CIS-1,3-DICHLOROPROPENE		1.6	U		1.6	U		1.6	U		1.6	U	
CYCLOHEXANE		1.2	U		1.2	U		1.2	U		1.2	U	
DICHLORODIFLUOROMETHANE		2.4			2.6			2.5			2.2		
ETHYLBENZENE		1.5	U		1.5	U		1.5	U		1	J	P
HEXACHLOROBUTADIENE		3.8	U		3.8	U		3.8	U		3.8	U	
HEXANE		1.3	U		1.3	U		1.3	U		1.4		
ISOPROPANOL		1.7	J	P	2.5	J	P	1.1	J	P	5.2		
ISOPROPYLBENZENE		4.4	U		4.4	U		4.4	U		4.4	U	
M+P-XYLENES		3.1	U		3.1	U		3.1	U		4.2		
METHYL ACETATE		2.7	U		2.7	U		2.7	U		2.7	U	
METHYL CYCLOHEXANE		1.4	U		1.4	U		1.4	U		1.4	U	
METHYL TERT-BUTYL ETHER		6.4	U		6.4	U		6.4	U		6.4	U	
METHYLENE CHLORIDE		22.6	J	A	20.5	J	A	19.1	J	A	32	J	A
O-XYLENE		1.5	U		1.5	U		1.5	U		1.1	J	P
PENTAFLUOROETHYL CHLORIDE		5.6	U		5.6	U		5.6	U		5.6	U	
STYRENE		1.5	U		1.5	U		1.5	U		1.5	U	
TETRACHLOROETHENE		36.6			92.3			118			1.2	U	
TOLUENE		1.3	U		2			1	J	P	2.3		
TRANS-1,2-DICHLOROETHENE		1.4	U		1.4	U		1.4	U		1.4	U	
TRANS-1,3-DICHLOROPROPENE		1.6	U		1.6	U		1.6	U		1.6	U	
TRICHLOROETHENE		56			139			194			0.96	U	
TRICHLOROFLUOROMETHANE		2.3			6.7			5.6			1.3	J	P
VINYL CHLORIDE		0.46	U		0.46	U		0.46	U		0.46	U	

PROJ_NO: 07792	NSAMPLE	VP-104_50_20170221			VP-104_50_20170221-DL			VP-104_62_20170221			VP-104_62_20170221-DL		
SDG: 10379929	LAB_ID	10379929006			10379929006			10379929007			10379929007		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.94	U					0.94	U				
CHLOROFORM		44.7						20.7					
CHLOROMETHANE		0.74	U					0.75					
CIS-1,2-DICHLOROETHENE		143						55					
CIS-1,3-DICHLOROPROPENE		1.6	U					1.6	U				
CYCLOHEXANE		1.2	U					1.2	U				
DICHLORODIFLUOROMETHANE		2.3						2.3					
ETHYLBENZENE		1.5	U					1.5	U				
HEXACHLOROBUTADIENE		3.8	U					3.8	U				
HEXANE		1.1	J	P				0.8	J	P			
ISOPROPANOL		3.2	J	P				3.2	J	P			
ISOPROPYLBENZENE		4.4	U					4.4	U				
M+P-XYLENES		3.1	U					1.7	J	P			
METHYL ACETATE		2.7	U					2.7	U				
METHYL CYCLOHEXANE		1.4	U					1.4	U				
METHYL TERT-BUTYL ETHER		6.4	U					6.4	U				
METHYLENE CHLORIDE		5.6	J	AP				16.9	J	A			
O-XYLENE		1.5	U					1.5	U				
PENTAFLUOROETHYL CHLORIDE		5.6	U					5.6	U				
STYRENE		1.5	U					0.77	J	P			
TETRACHLOROETHENE					638			212					
TOLUENE		29.3						1.2	J	P			
TRANS-1,2-DICHLOROETHENE		3.3						0.87	J	P			
TRANS-1,3-DICHLOROPROPENE		1.6	U					1.6	U				
TRICHLOROETHENE					1260						456		
TRICHLOROFLUOROMETHANE		15.2						7.7					
VINYL CHLORIDE		0.46	U					0.46	U				

PROJ_NO: 07792	NSAMPLE	VP-104_73_20170221			VP-104_73_20170221-DL			VP-8_10_20170221			VP-8_20_20170221		
SDG: 10379929	LAB_ID	10379929008			10379929008			10379929012			10379929013		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.94	U					0.91	U		1.2	U	
CHLOROFORM		57.1						0.83	U		1.1	U	
CHLOROMETHANE		0.74	U					0.44	J	P	0.93	U	
CIS-1,2-DICHLOROETHENE		93.1						1.4	U		1.8	U	
CIS-1,3-DICHLOROPROPENE		1.6	U					1.5	U		2	U	
CYCLOHEXANE		1.2	U					1.2	U		1.5	U	
DICHLORODIFLUOROMETHANE		2.2						2.1			2.5		
ETHYLBENZENE		1.5	U					1.5	U		1.9	U	
HEXACHLOROBUTADIENE		3.8	U					3.6	U		4.8	U	
HEXANE		1.3	U					1.2	U		1.2	J	P
ISOPROPANOL		0.84	J	P				1.1	J	P	2.7	J	P
ISOPROPYLBENZENE		4.4	U					4.2	U		5.5	U	
M+P-XYLENES		3.1	U					3	U		3.9	U	
METHYL ACETATE		2.7	U					2.6	U		3.4	U	
METHYL CYCLOHEXANE		1.4	U					1.4	U		1.8	U	
METHYL TERT-BUTYL ETHER		6.4	U					6.2	U		8.1	U	
METHYLENE CHLORIDE		2	J	AP				5.4	J	AP	1.4	J	AP
O-XYLENE		1.5	U					1.5	U		1.9	U	
PENTAFLUOROETHYL CHLORIDE		5.6	U					5.4	U		7.1	U	
STYRENE		1.5	U					1.5	U		1.9	U	
TETRACHLOROETHENE					611			1.2	U		2.3		
TOLUENE		1.5						1.3	U		1.3	J	P
TRANS-1,2-DICHLOROETHENE		1.4						1.4	U		1.8	U	
TRANS-1,3-DICHLOROPROPENE		1.6	U					1.5	U		2	U	
TRICHLOROETHENE					1170			0.76	J	P	18.3		
TRICHLOROFLUOROMETHANE		17.4						1.4	J	P	1.3	J	P
VINYL CHLORIDE		0.46	U					0.44	U		0.57	U	

PROJ_NO: 07792	NSAMPLE	VP-8_5_20170221			VP-8D_53.5_20170221			VP-8D_53.5_20170221-DL			VP-8D_62.5_20170221		
SDG: 10379929	LAB_ID	10379929011			10379929014			10379929014			10379929015		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.91	U		1.3	U					0.94	U	
CHLOROFORM		0.83	U		49.1						66.8	J	G
CHLOROMETHANE		0.89			1.8						0.74	U	
CIS-1,2-DICHLOROETHENE		1.4	U					1270	J	CP			
CIS-1,3-DICHLOROPROPENE		1.5	U		2.3	U					1.6	U	
CYCLOHEXANE		1.2	U		1.8						1.2	U	
DICHLORODIFLUOROMETHANE		2.3			4.7						2.5		
ETHYLBENZENE		1.5	U		2.2	U					1.5	U	
HEXACHLOROBUTADIENE		3.6	U		5.3	U					3.8	U	
HEXANE		1.2	U		248						2.7		
ISOPROPANOL		5.7			8.2						2.2	J	P
ISOPROPYLBENZENE		4.2	U		6.1	U					4.4	U	
M+P-XYLENES		3	U		3.6	J	P				3.1	U	
METHYL ACETATE		2.6	U		3.8	U					2.7	U	
METHYL CYCLOHEXANE		1.4	U		2	U					1.4	U	
METHYL TERT-BUTYL ETHER		6.2	U		9	U					6.4	U	
METHYLENE CHLORIDE		2.3	J	AP	1370	J	AL				20	J	AG
O-XYLENE		1.5	U		1.4	J	P				1.5	U	
PENTAFLUOROETHYL CHLORIDE		5.4	U		7.9	U					5.6	U	
STYRENE		1.6			2.1	U					1.5	U	
TETRACHLOROETHENE		1.2	U					1980	J	P			
TOLUENE		0.95	J	P	9.2						4.6	J	G
TRANS-1,2-DICHLOROETHENE		1.4	U		15.1						12.5	J	G
TRANS-1,3-DICHLOROPROPENE		1.5	U		2.3	U					1.6	U	
TRICHLOROETHENE		0.92	U					78900					
TRICHLOROFLUOROMETHANE		1.3	J	P	19						21.3	J	G
VINYL CHLORIDE		0.44	U		0.57	J	P				0.53		

PROJ_NO: 07792	NSAMPLE	VP-8D_62.5_20170221-DL			VP-8D_62.5_20170221DUP			VP-8D_62.5_20170221DUP-DL			VP-8D_72.5_20170221		
SDG: 10379929	LAB_ID	10379929015			10379929017			10379929017			10379929016		
FRACTION: OV	SAMP_DATE	2/21/2017			2/21/2017			2/21/2017			2/21/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF				VP-8D_62.5_20170221			VP-8D_62.5_20170221					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					0.99	U					0.99	U	
CHLOROFORM					27.7	J	G				56.2		
CHLOROMETHANE					0.68	J	P				0.77	U	
CIS-1,2-DICHLOROETHENE		917	J	CG	217	J	G						
CIS-1,3-DICHLOROPROPENE					1.7	U					1.7	U	
CYCLOHEXANE					1.3	U					1.3	U	
DICHLORODIFLUOROMETHANE					2.5						2.1		
ETHYLBENZENE					1.6	U					1.6	U	
HEXACHLOROBUTADIENE					4	U					4	U	
HEXANE					1.3	U					1.3	U	
ISOPROPANOL					2.7	J	P				1.5	J	P
ISOPROPYLBENZENE					4.6	U					4.6	U	
M+P-XYLENES					3.2	U					3.2	U	
METHYL ACETATE					2.8	U					2.8	U	
METHYL CYCLOHEXANE					1.5	U					1.5	U	
METHYL TERT-BUTYL ETHER					6.7	U					0.71	J	P
METHYLENE CHLORIDE					4.2	J	AGP				6.5	U	
O-XYLENE					1.6	U					1.6	U	
PENTAFLUOROETHYL CHLORIDE					5.9	U					5.9	U	
STYRENE					1.6	U					1.6	U	
TETRACHLOROETHENE		1460	J	G				647	J	G			
TOLUENE					0.86	J	GP				2.7		
TRANS-1,2-DICHLOROETHENE					5.3	J	G				7.5		
TRANS-1,3-DICHLOROPROPENE					1.7	U					1.7	U	
TRICHLOROETHENE		32800	J	G				13800	J	G			
TRICHLOROFLUOROMETHANE					9.3	J	G				19.8		
VINYL CHLORIDE					0.48	U					0.56		

PROJ_NO: 07792	NSAMPLE	VP-8D_72.5_20170221-DL		
SDG: 10379929	LAB_ID	10379929016		
FRACTION: OV	SAMP_DATE	2/21/2017		
MEDIA: AIR	QC_TYPE	NM		
	UNITS	UG/M3		
	PCT_SOLIDS			
	DUP_OF			

PARAMETER	RESULT	VQL	QLCD
CHLOROETHANE			
CHLOROFORM			
CHLOROMETHANE			
CIS-1,2-DICHLOROETHENE	586	J	C
CIS-1,3-DICHLOROPROPENE			
CYCLOHEXANE			
DICHLORODIFLUOROMETHANE			
ETHYLBENZENE			
HEXACHLOROBUTADIENE			
HEXANE			
ISOPROPANOL			
ISOPROPYLBENZENE			
M+P-XYLENES			
METHYL ACETATE			
METHYL CYCLOHEXANE			
METHYL TERT-BUTYL ETHER			
METHYLENE CHLORIDE			
O-XYLENE			
PENTAFLUOROETHYL CHLORIDE			
STYRENE			
TETRACHLOROETHENE	998		
TOLUENE			
TRANS-1,2-DICHLOROETHENE			
TRANS-1,3-DICHLOROPROPENE			
TRICHLOROETHENE	13200		
TRICHLOROFLUOROMETHANE			
VINYL CHLORIDE			

Appendix B

Results as Reported by the Laboratory

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_5_20170221 **Lab ID: 10379929001** Collected: 02/21/17 12:36 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.1**	ug/m3	4.2	1.5	1.75		03/03/17 15:49	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 15:49	107-05-1	
Benzene	**0.63**	ug/m3	0.57	0.21	1.75		03/03/17 15:49	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 15:49	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 15:49	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 15:49	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 15:49	106-99-0	
2-Butanone (MEK)	**3.0J**	ug/m3	5.2	0.40	1.75		03/03/17 15:49	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 15:49	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/03/17 15:49	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 15:49	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/03/17 15:49	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 15:49	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/03/17 15:49	67-66-3	
Chloromethane	**0.95**	ug/m3	0.74	0.19	1.75		03/03/17 15:49	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 15:49	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 15:49	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 15:49	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 15:49	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 15:49	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 15:49	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 15:49	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 15:49	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.8	0.84	1.75		03/03/17 15:49	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 15:49	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 15:49	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 15:49	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/03/17 15:49	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/03/17 15:49	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 15:49	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 15:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 15:49	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 15:49	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 15:49	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 15:49	123-91-1	
Ethylbenzene	**1.0J**	ug/m3	1.5	0.74	1.75		03/03/17 15:49	100-41-4	
4-Ethyltoluene	**1.1J**	ug/m3	1.8	0.33	1.75		03/03/17 15:49	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 15:49	87-68-3	
n-Hexane	**1.4**	ug/m3	1.3	0.62	1.75		03/03/17 15:49	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 15:49	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 15:49	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 15:49	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 15:49	108-87-2	
Methylene Chloride	**32.0**	ug/m3	6.2	0.95	1.75		03/03/17 15:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 15:49	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 15:49	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_5_20170221 **Lab ID: 10379929001** Collected: 02/21/17 12:36 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.2**	ug/m3	4.4	0.42	1.75		03/03/17 15:49	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/03/17 15:49	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 15:49	79-34-5	
Tetrachloroethene	**<0.49**	ug/m3	1.2	0.49	1.75		03/03/17 15:49	127-18-4	
Toluene	**2.3**	ug/m3	1.3	0.27	1.75		03/03/17 15:49	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 15:49	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/03/17 15:49	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 15:49	79-00-5	
Trichloroethene	**<0.48**	ug/m3	0.96	0.48	1.75		03/03/17 15:49	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.0	0.23	1.75		03/03/17 15:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.71J**	ug/m3	2.8	0.53	1.75		03/03/17 15:49	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.22	1.75		03/03/17 15:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 15:49	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 15:49	75-01-4	
m&p-Xylene	**4.2**	ug/m3	3.1	1.4	1.75		03/03/17 15:49	179601-23-1	
o-Xylene	**1.1J**	ug/m3	1.5	0.61	1.75		03/03/17 15:49	95-47-6	

Sample: VP-104_10_20170221 **Lab ID: 10379929002** Collected: 02/21/17 12:36 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**6.0**	ug/m3	4.4	1.5	1.83		03/03/17 16:52	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/03/17 16:52	107-05-1	
Benzene	**<0.22**	ug/m3	0.59	0.22	1.83		03/03/17 16:52	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/03/17 16:52	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/03/17 16:52	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/03/17 16:52	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/03/17 16:52	106-99-0	
2-Butanone (MEK)	**1.7J**	ug/m3	5.5	0.42	1.83		03/03/17 16:52	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/03/17 16:52	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/03/17 16:52	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/03/17 16:52	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/03/17 16:52	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/03/17 16:52	75-00-3	
Chloroform	**<0.35**	ug/m3	0.91	0.35	1.83		03/03/17 16:52	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/03/17 16:52	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/03/17 16:52	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/03/17 16:52	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/03/17 16:52	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/03/17 16:52	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/03/17 16:52	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/03/17 16:52	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/03/17 16:52	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_10_20170221 **Lab ID: 10379929002** Collected: 02/21/17 12:36 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/03/17 16:52	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.8	0.88	1.83		03/03/17 16:52	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/03/17 16:52	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/03/17 16:52	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/03/17 16:52	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/03/17 16:52	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/03/17 16:52	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/03/17 16:52	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/03/17 16:52	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/03/17 16:52	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/03/17 16:52	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/03/17 16:52	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/03/17 16:52	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/03/17 16:52	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/03/17 16:52	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/03/17 16:52	87-68-3	
n-Hexane	**1.0J**	ug/m3	1.3	0.65	1.83		03/03/17 16:52	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/03/17 16:52	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/03/17 16:52	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/03/17 16:52	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/03/17 16:52	108-87-2	
Methylene Chloride	**38.3**	ug/m3	6.5	0.99	1.83		03/03/17 16:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/03/17 16:52	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/03/17 16:52	1634-04-4	
2-Propanol	**2.5J**	ug/m3	4.6	0.44	1.83		03/03/17 16:52	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/03/17 16:52	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/03/17 16:52	79-34-5	
Tetrachloroethene	**1.9**	ug/m3	1.3	0.51	1.83		03/03/17 16:52	127-18-4	
Toluene	**4.4**	ug/m3	1.4	0.28	1.83		03/03/17 16:52	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/03/17 16:52	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/03/17 16:52	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/03/17 16:52	79-00-5	
Trichloroethene	**<0.51**	ug/m3	1.0	0.51	1.83		03/03/17 16:52	79-01-6	
Trichlorofluoromethane	**1.1J**	ug/m3	2.1	0.24	1.83		03/03/17 16:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/03/17 16:52	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/03/17 16:52	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/03/17 16:52	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/03/17 16:52	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/03/17 16:52	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/03/17 16:52	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_19_20170221 **Lab ID: 10379929003** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**7.1**	ug/m3	4.2	1.5	1.75		03/03/17 17:55	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 17:55	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/03/17 17:55	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 17:55	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 17:55	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 17:55	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 17:55	106-99-0	
2-Butanone (MEK)	**1.8J**	ug/m3	5.2	0.40	1.75		03/03/17 17:55	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 17:55	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/03/17 17:55	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 17:55	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/03/17 17:55	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 17:55	75-00-3	
Chloroform	**2.4**	ug/m3	0.87	0.33	1.75		03/03/17 17:55	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/03/17 17:55	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 17:55	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 17:55	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 17:55	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 17:55	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 17:55	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 17:55	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 17:55	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 17:55	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.8	0.84	1.75		03/03/17 17:55	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 17:55	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 17:55	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 17:55	75-35-4	
cis-1,2-Dichloroethene	**8.8**	ug/m3	1.4	0.43	1.75		03/03/17 17:55	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/03/17 17:55	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 17:55	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 17:55	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 17:55	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 17:55	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 17:55	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 17:55	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/03/17 17:55	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/03/17 17:55	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 17:55	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/03/17 17:55	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 17:55	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 17:55	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 17:55	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 17:55	108-87-2	
Methylene Chloride	**22.6**	ug/m3	6.2	0.95	1.75		03/03/17 17:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 17:55	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 17:55	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_19_20170221 **Lab ID: 10379929003** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**1.7J**	ug/m3	4.4	0.42	1.75		03/03/17 17:55	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/03/17 17:55	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 17:55	79-34-5	
Tetrachloroethene	**36.6**	ug/m3	1.2	0.49	1.75		03/03/17 17:55	127-18-4	
Toluene	**<0.27**	ug/m3	1.3	0.27	1.75		03/03/17 17:55	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 17:55	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/03/17 17:55	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 17:55	79-00-5	
Trichloroethene	**56.0**	ug/m3	0.96	0.48	1.75		03/03/17 17:55	79-01-6	
Trichlorofluoromethane	**2.3**	ug/m3	2.0	0.23	1.75		03/03/17 17:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	**21.7**	ug/m3	2.8	0.53	1.75		03/03/17 17:55	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/03/17 17:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 17:55	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 17:55	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/03/17 17:55	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/03/17 17:55	95-47-6	

Sample: VP-104_30_20170221 **Lab ID: 10379929004** Collected: 02/21/17 12:37 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**10**	ug/m3	4.2	1.5	1.75		03/03/17 18:26	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 18:26	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/03/17 18:26	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 18:26	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 18:26	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 18:26	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 18:26	106-99-0	
2-Butanone (MEK)	**2.5J**	ug/m3	5.2	0.40	1.75		03/03/17 18:26	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 18:26	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/03/17 18:26	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 18:26	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/03/17 18:26	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 18:26	75-00-3	
Chloroform	**4.8**	ug/m3	0.87	0.33	1.75		03/03/17 18:26	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/03/17 18:26	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 18:26	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 18:26	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 18:26	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 18:26	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 18:26	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 18:26	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 18:26	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_30_20170221 **Lab ID: 10379929004** Collected: 02/21/17 12:37 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 18:26	106-46-7	
Dichlorodifluoromethane	**2.6**	ug/m3	1.8	0.84	1.75		03/03/17 18:26	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 18:26	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 18:26	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 18:26	75-35-4	
cis-1,2-Dichloroethene	**18.0**	ug/m3	1.4	0.43	1.75		03/03/17 18:26	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/03/17 18:26	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 18:26	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 18:26	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 18:26	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 18:26	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 18:26	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 18:26	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/03/17 18:26	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/03/17 18:26	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 18:26	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/03/17 18:26	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 18:26	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 18:26	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 18:26	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 18:26	108-87-2	
Methylene Chloride	**20.5**	ug/m3	6.2	0.95	1.75		03/03/17 18:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 18:26	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 18:26	1634-04-4	
2-Propanol	**2.5J**	ug/m3	4.4	0.42	1.75		03/03/17 18:26	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/03/17 18:26	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 18:26	79-34-5	
Tetrachloroethene	**92.3**	ug/m3	1.2	0.49	1.75		03/03/17 18:26	127-18-4	
Toluene	**2.0**	ug/m3	1.3	0.27	1.75		03/03/17 18:26	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 18:26	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/03/17 18:26	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 18:26	79-00-5	
Trichloroethene	**139**	ug/m3	0.96	0.48	1.75		03/03/17 18:26	79-01-6	
Trichlorofluoromethane	**6.7**	ug/m3	2.0	0.23	1.75		03/03/17 18:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	**150**	ug/m3	2.8	0.53	1.75		03/03/17 18:26	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/03/17 18:26	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 18:26	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 18:26	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/03/17 18:26	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/03/17 18:26	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_40_20170221 **Lab ID: 10379929005** Collected: 02/21/17 12:37 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**8.8**	ug/m3	4.2	1.5	1.75		03/03/17 18:58	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 18:58	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/03/17 18:58	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 18:58	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 18:58	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 18:58	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 18:58	106-99-0	
2-Butanone (MEK)	**2.3J**	ug/m3	5.2	0.40	1.75		03/03/17 18:58	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 18:58	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/03/17 18:58	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 18:58	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/03/17 18:58	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 18:58	75-00-3	
Chloroform	**6.2**	ug/m3	0.87	0.33	1.75		03/03/17 18:58	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/03/17 18:58	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 18:58	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 18:58	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 18:58	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 18:58	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 18:58	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 18:58	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 18:58	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 18:58	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.8	0.84	1.75		03/03/17 18:58	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 18:58	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 18:58	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 18:58	75-35-4	
cis-1,2-Dichloroethene	**29.2**	ug/m3	1.4	0.43	1.75		03/03/17 18:58	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/03/17 18:58	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 18:58	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 18:58	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 18:58	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 18:58	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 18:58	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 18:58	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/03/17 18:58	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/03/17 18:58	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 18:58	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/03/17 18:58	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 18:58	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 18:58	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 18:58	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 18:58	108-87-2	
Methylene Chloride	**19.1**	ug/m3	6.2	0.95	1.75		03/03/17 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 18:58	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 18:58	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_40_20170221 **Lab ID: 10379929005** Collected: 02/21/17 12:37 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**1.1J**	ug/m3	4.4	0.42	1.75		03/03/17 18:58	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/03/17 18:58	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 18:58	79-34-5	
Tetrachloroethene	**118**	ug/m3	1.2	0.49	1.75		03/03/17 18:58	127-18-4	
Toluene	**1.0J**	ug/m3	1.3	0.27	1.75		03/03/17 18:58	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 18:58	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/03/17 18:58	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 18:58	79-00-5	
Trichloroethene	**194**	ug/m3	0.96	0.48	1.75		03/03/17 18:58	79-01-6	
Trichlorofluoromethane	**5.6**	ug/m3	2.0	0.23	1.75		03/03/17 18:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	**95.1**	ug/m3	2.8	0.53	1.75		03/03/17 18:58	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/03/17 18:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 18:58	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 18:58	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/03/17 18:58	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/03/17 18:58	95-47-6	

Sample: VP-104_50_20170221 **Lab ID: 10379929006** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**9.2**	ug/m3	4.2	1.5	1.75		03/03/17 19:29	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 19:29	107-05-1	
Benzene	**0.47J**	ug/m3	0.57	0.21	1.75		03/03/17 19:29	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 19:29	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 19:29	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 19:29	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 19:29	106-99-0	
2-Butanone (MEK)	**1.8J**	ug/m3	5.2	0.40	1.75		03/03/17 19:29	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 19:29	75-15-0	
Carbon tetrachloride	**1.0J**	ug/m3	1.1	0.34	1.75		03/03/17 19:29	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 19:29	108-90-7	
Chlorodifluoromethane	**156**	ug/m3	1.3	0.48	1.75		03/03/17 19:29	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 19:29	75-00-3	
Chloroform	**44.7**	ug/m3	0.87	0.33	1.75		03/03/17 19:29	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/03/17 19:29	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 19:29	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 19:29	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 19:29	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 19:29	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 19:29	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 19:29	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 19:29	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_50_20170221 **Lab ID: 10379929006** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 19:29	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.8	0.84	1.75		03/03/17 19:29	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 19:29	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 19:29	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 19:29	75-35-4	
cis-1,2-Dichloroethene	**143**	ug/m3	1.4	0.43	1.75		03/03/17 19:29	156-59-2	
trans-1,2-Dichloroethene	**3.3**	ug/m3	1.4	0.67	1.75		03/03/17 19:29	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 19:29	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 19:29	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 19:29	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 19:29	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 19:29	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 19:29	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/03/17 19:29	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/03/17 19:29	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 19:29	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.62	1.75		03/03/17 19:29	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 19:29	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 19:29	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 19:29	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 19:29	108-87-2	
Methylene Chloride	**5.6J**	ug/m3	6.2	0.95	1.75		03/03/17 19:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 19:29	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 19:29	1634-04-4	
2-Propanol	**3.2J**	ug/m3	4.4	0.42	1.75		03/03/17 19:29	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/03/17 19:29	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 19:29	79-34-5	
Tetrachloroethene	**487**	ug/m3	1.2	0.49	1.75		03/03/17 19:29	127-18-4	
Tetrachloroethene	**638**	ug/m3	48.3	9.7	35		03/05/17 13:20	127-18-4	
Toluene	**29.3**	ug/m3	1.3	0.27	1.75		03/03/17 19:29	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 19:29	120-82-1	
1,1,1-Trichloroethane	**1.4J**	ug/m3	1.9	0.43	1.75		03/03/17 19:29	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 19:29	79-00-5	
Trichloroethene	**823**	ug/m3	0.96	0.48	1.75		03/03/17 19:29	79-01-6	
Trichloroethene	**1260**	ug/m3	19.2	9.7	35		03/05/17 13:20	79-01-6	
Trichlorofluoromethane	**15.2**	ug/m3	2.0	0.23	1.75		03/03/17 19:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	**58.2**	ug/m3	2.8	0.53	1.75		03/03/17 19:29	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/03/17 19:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 19:29	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 19:29	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/03/17 19:29	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/03/17 19:29	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_62_20170221 **Lab ID: 10379929007** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**18.7**	ug/m3	4.2	1.5	1.75		03/03/17 20:01	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/03/17 20:01	107-05-1	
Benzene	**0.45J**	ug/m3	0.57	0.21	1.75		03/03/17 20:01	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/03/17 20:01	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/03/17 20:01	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/03/17 20:01	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/03/17 20:01	106-99-0	
2-Butanone (MEK)	**2.6J**	ug/m3	5.2	0.40	1.75		03/03/17 20:01	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/03/17 20:01	75-15-0	
Carbon tetrachloride	**0.69J**	ug/m3	1.1	0.34	1.75		03/03/17 20:01	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/03/17 20:01	108-90-7	
Chlorodifluoromethane	**88.4**	ug/m3	1.3	0.48	1.75		03/03/17 20:01	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/03/17 20:01	75-00-3	
Chloroform	**20.7**	ug/m3	0.87	0.33	1.75		03/03/17 20:01	67-66-3	
Chloromethane	**0.75**	ug/m3	0.74	0.19	1.75		03/03/17 20:01	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 20:01	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/03/17 20:01	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/03/17 20:01	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/03/17 20:01	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/03/17 20:01	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/03/17 20:01	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/03/17 20:01	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/03/17 20:01	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.8	0.84	1.75		03/03/17 20:01	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/03/17 20:01	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/03/17 20:01	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 20:01	75-35-4	
cis-1,2-Dichloroethene	**55.0**	ug/m3	1.4	0.43	1.75		03/03/17 20:01	156-59-2	
trans-1,2-Dichloroethene	**0.87J**	ug/m3	1.4	0.67	1.75		03/03/17 20:01	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/03/17 20:01	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/03/17 20:01	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/03/17 20:01	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/03/17 20:01	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/03/17 20:01	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/03/17 20:01	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/03/17 20:01	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/03/17 20:01	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/03/17 20:01	87-68-3	
n-Hexane	**0.80J**	ug/m3	1.3	0.62	1.75		03/03/17 20:01	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/03/17 20:01	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/03/17 20:01	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/03/17 20:01	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/03/17 20:01	108-87-2	
Methylene Chloride	**16.9**	ug/m3	6.2	0.95	1.75		03/03/17 20:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/03/17 20:01	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/03/17 20:01	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_62_20170221 **Lab ID: 10379929007** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**3.2J**	ug/m3	4.4	0.42	1.75		03/03/17 20:01	67-63-0	
Styrene	**0.77J**	ug/m3	1.5	0.34	1.75		03/03/17 20:01	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/03/17 20:01	79-34-5	
Tetrachloroethene	**212**	ug/m3	1.2	0.49	1.75		03/03/17 20:01	127-18-4	
Toluene	**1.2J**	ug/m3	1.3	0.27	1.75		03/03/17 20:01	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/03/17 20:01	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/03/17 20:01	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/03/17 20:01	79-00-5	
Trichloroethene	**421**	ug/m3	0.96	0.48	1.75		03/03/17 20:01	79-01-6	
Trichloroethene	**456**	ug/m3	9.6	4.8	17.5		03/05/17 13:43	79-01-6	
Trichlorofluoromethane	**7.7**	ug/m3	2.0	0.23	1.75		03/03/17 20:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	**28.1**	ug/m3	2.8	0.53	1.75		03/03/17 20:01	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/03/17 20:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/03/17 20:01	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/03/17 20:01	75-01-4	
m&p-Xylene	**1.7J**	ug/m3	3.1	1.4	1.75		03/03/17 20:01	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/03/17 20:01	95-47-6	

Sample: VP-104_73_20170221 **Lab ID: 10379929008** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.0**	ug/m3	4.2	1.5	1.75		03/04/17 12:51	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/04/17 12:51	107-05-1	
Benzene	**0.30J**	ug/m3	0.57	0.21	1.75		03/04/17 12:51	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/04/17 12:51	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/04/17 12:51	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/04/17 12:51	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/04/17 12:51	106-99-0	
2-Butanone (MEK)	**2.0J**	ug/m3	5.2	0.40	1.75		03/04/17 12:51	78-93-3	
Carbon disulfide	**0.68J**	ug/m3	1.1	0.18	1.75		03/04/17 12:51	75-15-0	
Carbon tetrachloride	**0.95J**	ug/m3	1.1	0.34	1.75		03/04/17 12:51	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/04/17 12:51	108-90-7	
Chlorodifluoromethane	**189**	ug/m3	1.3	0.48	1.75		03/04/17 12:51	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/04/17 12:51	75-00-3	
Chloroform	**57.1**	ug/m3	0.87	0.33	1.75		03/04/17 12:51	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/04/17 12:51	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/04/17 12:51	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/04/17 12:51	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/04/17 12:51	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/04/17 12:51	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/04/17 12:51	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/04/17 12:51	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-104_73_20170221 **Lab ID: 10379929008** Collected: 02/21/17 12:38 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/04/17 12:51	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/04/17 12:51	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.8	0.84	1.75		03/04/17 12:51	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/04/17 12:51	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/04/17 12:51	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/04/17 12:51	75-35-4	
cis-1,2-Dichloroethene	**93.1**	ug/m3	1.4	0.43	1.75		03/04/17 12:51	156-59-2	
trans-1,2-Dichloroethene	**1.4**	ug/m3	1.4	0.67	1.75		03/04/17 12:51	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/04/17 12:51	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/04/17 12:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/04/17 12:51	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/04/17 12:51	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/04/17 12:51	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/04/17 12:51	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/04/17 12:51	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/04/17 12:51	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/04/17 12:51	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/04/17 12:51	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/04/17 12:51	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/04/17 12:51	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/04/17 12:51	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/04/17 12:51	108-87-2	
Methylene Chloride	**2.0J**	ug/m3	6.2	0.95	1.75		03/04/17 12:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.9J**	ug/m3	7.3	0.38	1.75		03/04/17 12:51	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/04/17 12:51	1634-04-4	
2-Propanol	**0.84J**	ug/m3	4.4	0.42	1.75		03/04/17 12:51	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/04/17 12:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/04/17 12:51	79-34-5	
Tetrachloroethene	**483**	ug/m3	1.2	0.49	1.75		03/04/17 12:51	127-18-4	
Tetrachloroethene	**611**	ug/m3	48.3	9.7	35		03/05/17 21:26	127-18-4	
Toluene	**1.5**	ug/m3	1.3	0.27	1.75		03/04/17 12:51	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/04/17 12:51	120-82-1	
1,1,1-Trichloroethane	**1.7J**	ug/m3	1.9	0.43	1.75		03/04/17 12:51	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/04/17 12:51	79-00-5	
Trichloroethene	**809**	ug/m3	0.96	0.48	1.75		03/04/17 12:51	79-01-6	
Trichloroethene	**1170**	ug/m3	19.2	9.7	35		03/05/17 21:26	79-01-6	
Trichlorofluoromethane	**17.4**	ug/m3	2.0	0.23	1.75		03/04/17 12:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	**64.3**	ug/m3	2.8	0.53	1.75		03/04/17 12:51	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/04/17 12:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/04/17 12:51	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/04/17 12:51	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/04/17 12:51	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/04/17 12:51	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: FPM-20_5_20170221 **Lab ID: 10379929009** Collected: 02/21/17 13:47 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**28.1**	ug/m3	4.4	1.5	1.83		03/04/17 13:23	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 13:23	107-05-1	
Benzene	**1.6**	ug/m3	0.59	0.22	1.83		03/04/17 13:23	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 13:23	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 13:23	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 13:23	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 13:23	106-99-0	
2-Butanone (MEK)	**1.3J**	ug/m3	5.5	0.42	1.83		03/04/17 13:23	78-93-3	
Carbon disulfide	**1.3**	ug/m3	1.2	0.18	1.83		03/04/17 13:23	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/04/17 13:23	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 13:23	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 13:23	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 13:23	75-00-3	
Chloroform	**<0.35**	ug/m3	0.91	0.35	1.83		03/04/17 13:23	67-66-3	
Chloromethane	**1.1**	ug/m3	0.77	0.20	1.83		03/04/17 13:23	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 13:23	76-15-3	
Cyclohexane	**1.3J**	ug/m3	1.3	0.58	1.83		03/04/17 13:23	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 13:23	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 13:23	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 13:23	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 13:23	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 13:23	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 13:23	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.8	0.88	1.83		03/04/17 13:23	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 13:23	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 13:23	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 13:23	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/04/17 13:23	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/04/17 13:23	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 13:23	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 13:23	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 13:23	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 13:23	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 13:23	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 13:23	123-91-1	
Ethylbenzene	**10.1**	ug/m3	1.6	0.78	1.83		03/04/17 13:23	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 13:23	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 13:23	87-68-3	
n-Hexane	**2.5**	ug/m3	1.3	0.65	1.83		03/04/17 13:23	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/04/17 13:23	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 13:23	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 13:23	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 13:23	108-87-2	
Methylene Chloride	**13.5**	ug/m3	6.5	0.99	1.83		03/04/17 13:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 13:23	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 13:23	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: FPM-20_5_20170221 **Lab ID: 10379929009** Collected: 02/21/17 13:47 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**51.8**	ug/m3	4.6	0.44	1.83		03/04/17 13:23	67-63-0	
Styrene	**1.4J**	ug/m3	1.6	0.35	1.83		03/04/17 13:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 13:23	79-34-5	
Tetrachloroethene	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 13:23	127-18-4	
Toluene	**4.2**	ug/m3	1.4	0.28	1.83		03/04/17 13:23	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 13:23	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 13:23	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/04/17 13:23	79-00-5	
Trichloroethene	**<0.51**	ug/m3	1.0	0.51	1.83		03/04/17 13:23	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.1	0.24	1.83		03/04/17 13:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/04/17 13:23	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/04/17 13:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 13:23	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 13:23	75-01-4	
m&p-Xylene	**43.3**	ug/m3	3.2	1.4	1.83		03/04/17 13:23	179601-23-1	
o-Xylene	**11.0**	ug/m3	1.6	0.64	1.83		03/04/17 13:23	95-47-6	

Sample: FPM-20_9.4_20170221 **Lab ID: 10379929010** Collected: 02/21/17 13:24 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**19.2**	ug/m3	4.4	1.5	1.83		03/04/17 13:54	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 13:54	107-05-1	
Benzene	**<0.22**	ug/m3	0.59	0.22	1.83		03/04/17 13:54	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 13:54	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 13:54	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 13:54	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 13:54	106-99-0	
2-Butanone (MEK)	**1.5J**	ug/m3	5.5	0.42	1.83		03/04/17 13:54	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/04/17 13:54	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/04/17 13:54	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 13:54	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 13:54	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 13:54	75-00-3	
Chloroform	**4.7**	ug/m3	0.91	0.35	1.83		03/04/17 13:54	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/04/17 13:54	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 13:54	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/04/17 13:54	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 13:54	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 13:54	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 13:54	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 13:54	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 13:54	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: FPM-20_9.4_20170221 **Lab ID: 10379929010** Collected: 02/21/17 13:24 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 13:54	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.8	0.88	1.83		03/04/17 13:54	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 13:54	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 13:54	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 13:54	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/04/17 13:54	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/04/17 13:54	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 13:54	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 13:54	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 13:54	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 13:54	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 13:54	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 13:54	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/04/17 13:54	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 13:54	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 13:54	87-68-3	
n-Hexane	**0.69J**	ug/m3	1.3	0.65	1.83		03/04/17 13:54	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/04/17 13:54	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 13:54	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 13:54	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 13:54	108-87-2	
Methylene Chloride	**5.6J**	ug/m3	6.5	0.99	1.83		03/04/17 13:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 13:54	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 13:54	1634-04-4	
2-Propanol	**2.8J**	ug/m3	4.6	0.44	1.83		03/04/17 13:54	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/04/17 13:54	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 13:54	79-34-5	
Tetrachloroethene	**3.0**	ug/m3	1.3	0.51	1.83		03/04/17 13:54	127-18-4	
Toluene	**6.7**	ug/m3	1.4	0.28	1.83		03/04/17 13:54	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 13:54	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 13:54	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/04/17 13:54	79-00-5	
Trichloroethene	**1.1**	ug/m3	1.0	0.51	1.83		03/04/17 13:54	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.1	0.24	1.83		03/04/17 13:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/04/17 13:54	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/04/17 13:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 13:54	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 13:54	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/04/17 13:54	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/04/17 13:54	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8_5_20170221 **Lab ID: 10379929011** Collected: 02/21/17 14:05 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**23.7**	ug/m3	4.1	1.4	1.68		03/04/17 14:53	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/04/17 14:53	107-05-1	
Benzene	**0.48J**	ug/m3	0.55	0.20	1.68		03/04/17 14:53	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/04/17 14:53	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/04/17 14:53	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/04/17 14:53	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/04/17 14:53	106-99-0	
2-Butanone (MEK)	**6.1**	ug/m3	5.0	0.38	1.68		03/04/17 14:53	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/04/17 14:53	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/04/17 14:53	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/04/17 14:53	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/04/17 14:53	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/04/17 14:53	75-00-3	
Chloroform	**<0.32**	ug/m3	0.83	0.32	1.68		03/04/17 14:53	67-66-3	
Chloromethane	**0.89**	ug/m3	0.71	0.18	1.68		03/04/17 14:53	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/04/17 14:53	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/04/17 14:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/04/17 14:53	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/04/17 14:53	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/04/17 14:53	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/04/17 14:53	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/04/17 14:53	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/04/17 14:53	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.7	0.81	1.68		03/04/17 14:53	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/04/17 14:53	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/04/17 14:53	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/04/17 14:53	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/04/17 14:53	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/04/17 14:53	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/04/17 14:53	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/04/17 14:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/04/17 14:53	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/04/17 14:53	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/04/17 14:53	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/04/17 14:53	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/04/17 14:53	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/04/17 14:53	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/04/17 14:53	87-68-3	
n-Hexane	**<0.60**	ug/m3	1.2	0.60	1.68		03/04/17 14:53	110-54-3	
2-Hexanone	**1.6J**	ug/m3	7.0	0.69	1.68		03/04/17 14:53	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/04/17 14:53	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/04/17 14:53	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/04/17 14:53	108-87-2	
Methylene Chloride	**2.3J**	ug/m3	5.9	0.91	1.68		03/04/17 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/04/17 14:53	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/04/17 14:53	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8_5_20170221 **Lab ID: 10379929011** Collected: 02/21/17 14:05 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.7**	ug/m3	4.2	0.40	1.68		03/04/17 14:53	67-63-0	
Styrene	**1.6**	ug/m3	1.5	0.32	1.68		03/04/17 14:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/04/17 14:53	79-34-5	
Tetrachloroethene	**<0.47**	ug/m3	1.2	0.47	1.68		03/04/17 14:53	127-18-4	
Toluene	**0.95J**	ug/m3	1.3	0.26	1.68		03/04/17 14:53	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/04/17 14:53	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/04/17 14:53	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/04/17 14:53	79-00-5	
Trichloroethene	**<0.46**	ug/m3	0.92	0.46	1.68		03/04/17 14:53	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	1.9	0.22	1.68		03/04/17 14:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.51**	ug/m3	2.7	0.51	1.68		03/04/17 14:53	76-13-1	
1,2,4-Trimethylbenzene	**<0.21**	ug/m3	1.7	0.21	1.68		03/04/17 14:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/04/17 14:53	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/04/17 14:53	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/04/17 14:53	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/04/17 14:53	95-47-6	

Sample: VP-8_10_20170221 **Lab ID: 10379929012** Collected: 02/21/17 13:35 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**9.2**	ug/m3	4.1	1.4	1.68		03/04/17 15:25	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/04/17 15:25	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/04/17 15:25	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/04/17 15:25	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/04/17 15:25	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/04/17 15:25	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/04/17 15:25	106-99-0	
2-Butanone (MEK)	**2.0J**	ug/m3	5.0	0.38	1.68		03/04/17 15:25	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/04/17 15:25	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/04/17 15:25	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/04/17 15:25	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/04/17 15:25	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/04/17 15:25	75-00-3	
Chloroform	**<0.32**	ug/m3	0.83	0.32	1.68		03/04/17 15:25	67-66-3	
Chloromethane	**0.44J**	ug/m3	0.71	0.18	1.68		03/04/17 15:25	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/04/17 15:25	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/04/17 15:25	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/04/17 15:25	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/04/17 15:25	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/04/17 15:25	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/04/17 15:25	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/04/17 15:25	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8_10_20170221 **Lab ID: 10379929012** Collected: 02/21/17 13:35 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/04/17 15:25	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.7	0.81	1.68		03/04/17 15:25	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/04/17 15:25	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/04/17 15:25	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/04/17 15:25	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/04/17 15:25	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/04/17 15:25	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/04/17 15:25	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/04/17 15:25	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/04/17 15:25	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/04/17 15:25	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/04/17 15:25	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/04/17 15:25	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/04/17 15:25	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/04/17 15:25	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/04/17 15:25	87-68-3	
n-Hexane	**<0.60**	ug/m3	1.2	0.60	1.68		03/04/17 15:25	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/04/17 15:25	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/04/17 15:25	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/04/17 15:25	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/04/17 15:25	108-87-2	
Methylene Chloride	**5.4J**	ug/m3	5.9	0.91	1.68		03/04/17 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/04/17 15:25	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/04/17 15:25	1634-04-4	
2-Propanol	**1.1J**	ug/m3	4.2	0.40	1.68		03/04/17 15:25	67-63-0	
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/04/17 15:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/04/17 15:25	79-34-5	
Tetrachloroethene	**<0.47**	ug/m3	1.2	0.47	1.68		03/04/17 15:25	127-18-4	
Toluene	**<0.26**	ug/m3	1.3	0.26	1.68		03/04/17 15:25	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/04/17 15:25	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/04/17 15:25	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/04/17 15:25	79-00-5	
Trichloroethene	**0.76J**	ug/m3	0.92	0.46	1.68		03/04/17 15:25	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	1.9	0.22	1.68		03/04/17 15:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.51**	ug/m3	2.7	0.51	1.68		03/04/17 15:25	76-13-1	
1,2,4-Trimethylbenzene	**<0.21**	ug/m3	1.7	0.21	1.68		03/04/17 15:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/04/17 15:25	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/04/17 15:25	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/04/17 15:25	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/04/17 15:25	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8_20_20170221 **Lab ID: 10379929013** Collected: 02/21/17 13:35 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**19.5**	ug/m3	5.3	1.8	2.21		03/04/17 16:28	67-64-1	
Allyl chloride	**<0.50**	ug/m3	3.5	0.50	2.21		03/04/17 16:28	107-05-1	
Benzene	**<0.27**	ug/m3	0.72	0.27	2.21		03/04/17 16:28	71-43-2	
Bromodichloromethane	**<0.43**	ug/m3	3.0	0.43	2.21		03/04/17 16:28	75-27-4	
Bromoform	**<2.0**	ug/m3	4.6	2.0	2.21		03/04/17 16:28	75-25-2	
Bromomethane	**<0.69**	ug/m3	1.7	0.69	2.21		03/04/17 16:28	74-83-9	
1,3-Butadiene	**<0.39**	ug/m3	0.99	0.39	2.21		03/04/17 16:28	106-99-0	
2-Butanone (MEK)	**6.3J**	ug/m3	6.6	0.50	2.21		03/04/17 16:28	78-93-3	
Carbon disulfide	**<0.22**	ug/m3	1.4	0.22	2.21		03/04/17 16:28	75-15-0	
Carbon tetrachloride	**<0.43**	ug/m3	1.4	0.43	2.21		03/04/17 16:28	56-23-5	
Chlorobenzene	**<0.30**	ug/m3	2.1	0.30	2.21		03/04/17 16:28	108-90-7	
Chlorodifluoromethane	**7.9**	ug/m3	1.6	0.61	2.21		03/04/17 16:28	75-45-6	
Chloroethane	**<0.43**	ug/m3	1.2	0.43	2.21		03/04/17 16:28	75-00-3	
Chloroform	**<0.42**	ug/m3	1.1	0.42	2.21		03/04/17 16:28	67-66-3	
Chloromethane	**<0.24**	ug/m3	0.93	0.24	2.21		03/04/17 16:28	74-87-3	
Chloropentafluoroethane	**<7.1**	ug/m3	7.1	7.1	2.21		03/04/17 16:28	76-15-3	
Cyclohexane	**<0.70**	ug/m3	1.5	0.70	2.21		03/04/17 16:28	110-82-7	
1,2-Dibromo-3-chloropropane	**<10.9**	ug/m3	10.9	10.9	2.21		03/04/17 16:28	96-12-8	
Dibromochloromethane	**<1.9**	ug/m3	3.8	1.9	2.21		03/04/17 16:28	124-48-1	
1,2-Dibromoethane (EDB)	**<1.7**	ug/m3	3.4	1.7	2.21		03/04/17 16:28	106-93-4	
1,2-Dichlorobenzene	**<1.1**	ug/m3	2.7	1.1	2.21		03/04/17 16:28	95-50-1	
1,3-Dichlorobenzene	**<1.2**	ug/m3	2.7	1.2	2.21		03/04/17 16:28	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/m3	2.7	1.1	2.21		03/04/17 16:28	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	2.2	1.1	2.21		03/04/17 16:28	75-71-8	
1,1-Dichloroethane	**<0.35**	ug/m3	1.8	0.35	2.21		03/04/17 16:28	75-34-3	
1,2-Dichloroethane	**<0.45**	ug/m3	0.91	0.45	2.21		03/04/17 16:28	107-06-2	
1,1-Dichloroethene	**<0.53**	ug/m3	1.8	0.53	2.21		03/04/17 16:28	75-35-4	
cis-1,2-Dichloroethene	**<0.54**	ug/m3	1.8	0.54	2.21		03/04/17 16:28	156-59-2	
trans-1,2-Dichloroethene	**<0.85**	ug/m3	1.8	0.85	2.21		03/04/17 16:28	156-60-5	
1,2-Dichloropropane	**<0.60**	ug/m3	2.1	0.60	2.21		03/04/17 16:28	78-87-5	
cis-1,3-Dichloropropene	**<0.82**	ug/m3	2.0	0.82	2.21		03/04/17 16:28	10061-01-5	
trans-1,3-Dichloropropene	**<0.57**	ug/m3	2.0	0.57	2.21		03/04/17 16:28	10061-02-6	
Dichlorotetrafluoroethane	**<0.69**	ug/m3	3.1	0.69	2.21		03/04/17 16:28	76-14-2	
Freon 123	**<7.0**	ug/m3	7.0	7.0	2.21		03/04/17 16:28	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.78**	ug/m3	8.1	0.78	2.21		03/04/17 16:28	123-91-1	
Ethylbenzene	**<0.94**	ug/m3	1.9	0.94	2.21		03/04/17 16:28	100-41-4	
4-Ethyltoluene	**<0.42**	ug/m3	2.2	0.42	2.21		03/04/17 16:28	622-96-8	
Hexachloro-1,3-butadiene	**<1.4**	ug/m3	4.8	1.4	2.21		03/04/17 16:28	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.6	0.79	2.21		03/04/17 16:28	110-54-3	
2-Hexanone	**1.6J**	ug/m3	9.2	0.91	2.21		03/04/17 16:28	591-78-6	
Isopropylbenzene (Cumene)	**<0.30**	ug/m3	5.5	0.30	2.21		03/04/17 16:28	98-82-8	
Methyl acetate	**<3.4**	ug/m3	3.4	3.4	2.21		03/04/17 16:28	79-20-9	
Methylcyclohexane	**<0.53**	ug/m3	1.8	0.53	2.21		03/04/17 16:28	108-87-2	
Methylene Chloride	**1.4J**	ug/m3	7.8	1.2	2.21		03/04/17 16:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.48**	ug/m3	9.2	0.48	2.21		03/04/17 16:28	108-10-1	
Methyl-tert-butyl ether	**<0.67**	ug/m3	8.1	0.67	2.21		03/04/17 16:28	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8_20_20170221 **Lab ID: 10379929013** Collected: 02/21/17 13:35 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**2.7J**	ug/m3	5.5	0.53	2.21		03/04/17 16:28	67-63-0	
Styrene	**<0.43**	ug/m3	1.9	0.43	2.21		03/04/17 16:28	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.73**	ug/m3	1.5	0.73	2.21		03/04/17 16:28	79-34-5	
Tetrachloroethene	**2.3**	ug/m3	1.5	0.61	2.21		03/04/17 16:28	127-18-4	
Toluene	**1.3J**	ug/m3	1.7	0.34	2.21		03/04/17 16:28	108-88-3	
1,2,4-Trichlorobenzene	**<2.0**	ug/m3	8.3	2.0	2.21		03/04/17 16:28	120-82-1	
1,1,1-Trichloroethane	**<0.55**	ug/m3	2.5	0.55	2.21		03/04/17 16:28	71-55-6	
1,1,2-Trichloroethane	**<0.54**	ug/m3	1.2	0.54	2.21		03/04/17 16:28	79-00-5	
Trichloroethene	**18.3**	ug/m3	1.2	0.61	2.21		03/04/17 16:28	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.5	0.29	2.21		03/04/17 16:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.67**	ug/m3	3.5	0.67	2.21		03/04/17 16:28	76-13-1	
1,2,4-Trimethylbenzene	**<0.28**	ug/m3	2.2	0.28	2.21		03/04/17 16:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.40**	ug/m3	2.2	0.40	2.21		03/04/17 16:28	108-67-8	
Vinyl chloride	**<0.43**	ug/m3	0.57	0.43	2.21		03/04/17 16:28	75-01-4	
m&p-Xylene	**<1.7**	ug/m3	3.9	1.7	2.21		03/04/17 16:28	179601-23-1	
o-Xylene	**<0.78**	ug/m3	1.9	0.78	2.21		03/04/17 16:28	95-47-6	

Sample: VP-8D_53.5_20170221 **Lab ID: 10379929014** Collected: 02/21/17 13:10 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**217**	ug/m3	5.9	2.0	2.45		03/04/17 17:34	67-64-1	
Allyl chloride	**<0.56**	ug/m3	3.9	0.56	2.45		03/04/17 17:34	107-05-1	
Benzene	**2.1**	ug/m3	0.80	0.30	2.45		03/04/17 17:34	71-43-2	
Bromodichloromethane	**<0.48**	ug/m3	3.3	0.48	2.45		03/04/17 17:34	75-27-4	
Bromoform	**<2.2**	ug/m3	5.1	2.2	2.45		03/04/17 17:34	75-25-2	
Bromomethane	**<0.76**	ug/m3	1.9	0.76	2.45		03/04/17 17:34	74-83-9	
1,3-Butadiene	**<0.43**	ug/m3	1.1	0.43	2.45		03/04/17 17:34	106-99-0	
2-Butanone (MEK)	**<0.56**	ug/m3	7.4	0.56	2.45		03/04/17 17:34	78-93-3	
Carbon disulfide	**<0.25**	ug/m3	1.5	0.25	2.45		03/04/17 17:34	75-15-0	
Carbon tetrachloride	**1.4J**	ug/m3	1.6	0.47	2.45		03/04/17 17:34	56-23-5	
Chlorobenzene	**<0.33**	ug/m3	2.3	0.33	2.45		03/04/17 17:34	108-90-7	
Chlorodifluoromethane	**142**	ug/m3	1.8	0.68	2.45		03/04/17 17:34	75-45-6	
Chloroethane	**<0.48**	ug/m3	1.3	0.48	2.45		03/04/17 17:34	75-00-3	
Chloroform	**49.1**	ug/m3	1.2	0.47	2.45		03/04/17 17:34	67-66-3	
Chloromethane	**1.8**	ug/m3	1.0	0.26	2.45		03/04/17 17:34	74-87-3	
Chloropentafluoroethane	**<7.9**	ug/m3	7.9	7.9	2.45		03/04/17 17:34	76-15-3	
Cyclohexane	**1.8**	ug/m3	1.7	0.77	2.45		03/04/17 17:34	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/m3	12.0	12.0	2.45		03/04/17 17:34	96-12-8	
Dibromochloromethane	**<2.1**	ug/m3	4.2	2.1	2.45		03/04/17 17:34	124-48-1	
1,2-Dibromoethane (EDB)	**<1.9**	ug/m3	3.8	1.9	2.45		03/04/17 17:34	106-93-4	
1,2-Dichlorobenzene	**<1.3**	ug/m3	3.0	1.3	2.45		03/04/17 17:34	95-50-1	
1,3-Dichlorobenzene	**<1.3**	ug/m3	3.0	1.3	2.45		03/04/17 17:34	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_53.5_20170221 **Lab ID: 10379929014** Collected: 02/21/17 13:10 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<1.2**	ug/m3	3.0	1.2	2.45		03/04/17 17:34	106-46-7	
Dichlorodifluoromethane	**4.7**	ug/m3	2.5	1.2	2.45		03/04/17 17:34	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	2.0	0.38	2.45		03/04/17 17:34	75-34-3	
1,2-Dichloroethane	**<0.50**	ug/m3	1.0	0.50	2.45		03/04/17 17:34	107-06-2	
1,1-Dichloroethene	**10.4**	ug/m3	2.0	0.58	2.45		03/04/17 17:34	75-35-4	
cis-1,2-Dichloroethene	**424**	ug/m3	2.0	0.60	2.45		03/04/17 17:34	156-59-2	
cis-1,2-Dichloroethene	**1270J**	ug/m3	1270	386	1569.4 1		03/05/17 23:19	156-59-2	A3
trans-1,2-Dichloroethene	**15.1**	ug/m3	2.0	0.94	2.45		03/04/17 17:34	156-60-5	
1,2-Dichloropropane	**<0.66**	ug/m3	2.3	0.66	2.45		03/04/17 17:34	78-87-5	
cis-1,3-Dichloropropene	**<0.90**	ug/m3	2.3	0.90	2.45		03/04/17 17:34	10061-01-5	
trans-1,3-Dichloropropene	**<0.64**	ug/m3	2.3	0.64	2.45		03/04/17 17:34	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	3.5	0.76	2.45		03/04/17 17:34	76-14-2	
Freon 123	**<7.8**	ug/m3	7.8	7.8	2.45		03/04/17 17:34	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.86**	ug/m3	9.0	0.86	2.45		03/04/17 17:34	123-91-1	
Ethylbenzene	**<1.0**	ug/m3	2.2	1.0	2.45		03/04/17 17:34	100-41-4	
4-Ethyltoluene	**1.6J**	ug/m3	2.4	0.46	2.45		03/04/17 17:34	622-96-8	
Hexachloro-1,3-butadiene	**<1.6**	ug/m3	5.3	1.6	2.45		03/04/17 17:34	87-68-3	
n-Hexane	**248**	ug/m3	1.8	0.87	2.45		03/04/17 17:34	110-54-3	
2-Hexanone	**<1.0**	ug/m3	10.2	1.0	2.45		03/04/17 17:34	591-78-6	
Isopropylbenzene (Cumene)	**<0.34**	ug/m3	6.1	0.34	2.45		03/04/17 17:34	98-82-8	
Methyl acetate	**<3.8**	ug/m3	3.8	3.8	2.45		03/04/17 17:34	79-20-9	
Methylcyclohexane	**<0.59**	ug/m3	2.0	0.59	2.45		03/04/17 17:34	108-87-2	
Methylene Chloride	**1370**	ug/m3	8.6	1.3	2.45		03/04/17 17:34	75-09-2	
Methylene Chloride	**<851**	ug/m3	5540	851	1569.4 1		03/05/17 23:19	75-09-2	A3
4-Methyl-2-pentanone (MIBK)	**<0.53**	ug/m3	10.2	0.53	2.45		03/04/17 17:34	108-10-1	
Methyl-tert-butyl ether	**<0.74**	ug/m3	9.0	0.74	2.45		03/04/17 17:34	1634-04-4	
2-Propanol	**8.2**	ug/m3	6.1	0.59	2.45		03/04/17 17:34	67-63-0	
Styrene	**<0.47**	ug/m3	2.1	0.47	2.45		03/04/17 17:34	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.81**	ug/m3	1.7	0.81	2.45		03/04/17 17:34	79-34-5	
Tetrachloroethene	**646**	ug/m3	1.7	0.68	2.45		03/04/17 17:34	127-18-4	
Tetrachloroethene	**1980J**	ug/m3	2160	436	1569.4 1		03/05/17 23:19	127-18-4	A3
Toluene	**9.2**	ug/m3	1.9	0.38	2.45		03/04/17 17:34	108-88-3	
1,2,4-Trichlorobenzene	**<2.2**	ug/m3	9.2	2.2	2.45		03/04/17 17:34	120-82-1	
1,1,1-Trichloroethane	**<0.61**	ug/m3	2.7	0.61	2.45		03/04/17 17:34	71-55-6	
1,1,2-Trichloroethane	**11.7**	ug/m3	1.3	0.60	2.45		03/04/17 17:34	79-00-5	
Trichloroethene	**6230**	ug/m3	1.3	0.68	2.45		03/04/17 17:34	79-01-6	
Trichloroethene	**78900**	ug/m3	863	433	1569.4 1		03/05/17 23:19	79-01-6	A3
Trichlorofluoromethane	**19.0**	ug/m3	2.8	0.32	2.45		03/04/17 17:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	**308**	ug/m3	3.9	0.74	2.45		03/04/17 17:34	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	2.4	0.31	2.45		03/04/17 17:34	95-63-6	
1,3,5-Trimethylbenzene	**<0.45**	ug/m3	2.4	0.45	2.45		03/04/17 17:34	108-67-8	
Vinyl chloride	**0.57J**	ug/m3	0.64	0.48	2.45		03/04/17 17:34	75-01-4	
m&p-Xylene	**3.6J**	ug/m3	4.3	1.9	2.45		03/04/17 17:34	179601-23-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_53.5_20170221 **Lab ID: 10379929014** Collected: 02/21/17 13:10 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
o-Xylene	**1.4J**	ug/m3	2.2	0.86	2.45		03/04/17 17:34	95-47-6	

Sample: VP-8D_62.5_20170221 **Lab ID: 10379929015** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.2**	ug/m3	4.2	1.5	1.75		03/04/17 18:05	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/04/17 18:05	107-05-1	
Benzene	**0.71**	ug/m3	0.57	0.21	1.75		03/04/17 18:05	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/04/17 18:05	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/04/17 18:05	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/04/17 18:05	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/04/17 18:05	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/04/17 18:05	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/04/17 18:05	75-15-0	
Carbon tetrachloride	**0.83J**	ug/m3	1.1	0.34	1.75		03/04/17 18:05	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/04/17 18:05	108-90-7	
Chlorodifluoromethane	**171**	ug/m3	1.3	0.48	1.75		03/04/17 18:05	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/04/17 18:05	75-00-3	
Chloroform	**66.8**	ug/m3	0.87	0.33	1.75		03/04/17 18:05	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/04/17 18:05	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/04/17 18:05	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/04/17 18:05	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/04/17 18:05	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/04/17 18:05	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/04/17 18:05	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/04/17 18:05	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/04/17 18:05	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/04/17 18:05	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.8	0.84	1.75		03/04/17 18:05	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/04/17 18:05	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/04/17 18:05	107-06-2	
1,1-Dichloroethene	**7.0**	ug/m3	1.4	0.42	1.75		03/04/17 18:05	75-35-4	
cis-1,2-Dichloroethene	**494**	ug/m3	1.4	0.43	1.75		03/04/17 18:05	156-59-2	
cis-1,2-Dichloroethene	**917**	ug/m3	454	138	560		03/05/17 22:56	156-59-2	A3
trans-1,2-Dichloroethene	**12.5**	ug/m3	1.4	0.67	1.75		03/04/17 18:05	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/04/17 18:05	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/04/17 18:05	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/04/17 18:05	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/04/17 18:05	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/04/17 18:05	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/04/17 18:05	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/04/17 18:05	100-41-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_62.5_20170221 **Lab ID: 10379929015** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/04/17 18:05	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/04/17 18:05	87-68-3	
n-Hexane	**2.7**	ug/m3	1.3	0.62	1.75		03/04/17 18:05	110-54-3	
2-Hexanone	**1.0J**	ug/m3	7.3	0.72	1.75		03/04/17 18:05	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/04/17 18:05	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/04/17 18:05	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/04/17 18:05	108-87-2	
Methylene Chloride	**20.0**	ug/m3	6.2	0.95	1.75		03/04/17 18:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/04/17 18:05	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/04/17 18:05	1634-04-4	
2-Propanol	**2.2J**	ug/m3	4.4	0.42	1.75		03/04/17 18:05	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/04/17 18:05	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/04/17 18:05	79-34-5	
Tetrachloroethene	**725**	ug/m3	1.2	0.49	1.75		03/04/17 18:05	127-18-4	
Tetrachloroethene	**1460**	ug/m3	772	156	560		03/05/17 22:56	127-18-4	A3
Toluene	**4.6**	ug/m3	1.3	0.27	1.75		03/04/17 18:05	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/04/17 18:05	120-82-1	
1,1,1-Trichloroethane	**1.0J**	ug/m3	1.9	0.43	1.75		03/04/17 18:05	71-55-6	
1,1,2-Trichloroethane	**12.1**	ug/m3	0.96	0.43	1.75		03/04/17 18:05	79-00-5	
Trichloroethene	**4010**	ug/m3	0.96	0.48	1.75		03/04/17 18:05	79-01-6	
Trichloroethene	**32800**	ug/m3	308	155	560		03/05/17 22:56	79-01-6	A3
Trichlorofluoromethane	**21.3**	ug/m3	2.0	0.23	1.75		03/04/17 18:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	**402**	ug/m3	2.8	0.53	1.75		03/04/17 18:05	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/04/17 18:05	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/04/17 18:05	108-67-8	
Vinyl chloride	**0.53**	ug/m3	0.46	0.34	1.75		03/04/17 18:05	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/04/17 18:05	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/04/17 18:05	95-47-6	

Sample: VP-8D_72.5_20170221 **Lab ID: 10379929016** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**18.1**	ug/m3	4.4	1.5	1.83		03/04/17 18:36	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 18:36	107-05-1	
Benzene	**0.65**	ug/m3	0.59	0.22	1.83		03/04/17 18:36	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 18:36	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 18:36	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 18:36	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 18:36	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/04/17 18:36	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/04/17 18:36	75-15-0	
Carbon tetrachloride	**0.67J**	ug/m3	1.2	0.35	1.83		03/04/17 18:36	56-23-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_72.5_20170221 **Lab ID: 10379929016** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Chlorobenzene	**0.87J**	ug/m3	1.7	0.25	1.83		03/04/17 18:36	108-90-7	
Chlorodifluoromethane	**168**	ug/m3	1.3	0.51	1.83		03/04/17 18:36	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 18:36	75-00-3	
Chloroform	**56.2**	ug/m3	0.91	0.35	1.83		03/04/17 18:36	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/04/17 18:36	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 18:36	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/04/17 18:36	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 18:36	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 18:36	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 18:36	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 18:36	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 18:36	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 18:36	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.8	0.88	1.83		03/04/17 18:36	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 18:36	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 18:36	107-06-2	
1,1-Dichloroethene	**4.6**	ug/m3	1.5	0.44	1.83		03/04/17 18:36	75-35-4	
cis-1,2-Dichloroethene	**381**	ug/m3	1.5	0.45	1.83		03/04/17 18:36	156-59-2	
cis-1,2-Dichloroethene	**586**	ug/m3	474	144	585.6		03/05/17 22:12	156-59-2	A3
trans-1,2-Dichloroethene	**7.5**	ug/m3	1.5	0.70	1.83		03/04/17 18:36	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 18:36	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 18:36	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 18:36	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 18:36	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 18:36	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 18:36	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/04/17 18:36	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 18:36	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 18:36	87-68-3	
n-Hexane	**<0.65**	ug/m3	1.3	0.65	1.83		03/04/17 18:36	110-54-3	
2-Hexanone	**1.3J**	ug/m3	7.6	0.75	1.83		03/04/17 18:36	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 18:36	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 18:36	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 18:36	108-87-2	
Methylene Chloride	**<0.99**	ug/m3	6.5	0.99	1.83		03/04/17 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 18:36	108-10-1	
Methyl-tert-butyl ether	**0.71J**	ug/m3	6.7	0.55	1.83		03/04/17 18:36	1634-04-4	
2-Propanol	**1.5J**	ug/m3	4.6	0.44	1.83		03/04/17 18:36	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/04/17 18:36	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 18:36	79-34-5	
Tetrachloroethene	**622**	ug/m3	1.3	0.51	1.83		03/04/17 18:36	127-18-4	
Tetrachloroethene	**998**	ug/m3	808	163	585.6		03/05/17 22:12	127-18-4	A3
Toluene	**2.7**	ug/m3	1.4	0.28	1.83		03/04/17 18:36	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 18:36	120-82-1	
1,1,1-Trichloroethane	**1.0J**	ug/m3	2.0	0.45	1.83		03/04/17 18:36	71-55-6	
1,1,2-Trichloroethane	**7.1**	ug/m3	1.0	0.45	1.83		03/04/17 18:36	79-00-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_72.5_20170221 **Lab ID: 10379929016** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichloroethene	**3110**	ug/m3	1.0	0.51	1.83		03/04/17 18:36	79-01-6	
Trichloroethene	**13200**	ug/m3	322	162	585.6		03/05/17 22:12	79-01-6	A3
Trichlorofluoromethane	**19.8**	ug/m3	2.1	0.24	1.83		03/04/17 18:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	**433**	ug/m3	2.9	0.55	1.83		03/04/17 18:36	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/04/17 18:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 18:36	108-67-8	
Vinyl chloride	**0.56**	ug/m3	0.48	0.36	1.83		03/04/17 18:36	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/04/17 18:36	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/04/17 18:36	95-47-6	

Sample: VP-8D_62.5_20170221DUP **Lab ID: 10379929017** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**7.8**	ug/m3	4.4	1.5	1.83		03/04/17 19:08	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 19:08	107-05-1	
Benzene	**0.58J**	ug/m3	0.59	0.22	1.83		03/04/17 19:08	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 19:08	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 19:08	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 19:08	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 19:08	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/04/17 19:08	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/04/17 19:08	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/04/17 19:08	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 19:08	108-90-7	
Chlorodifluoromethane	**76.4**	ug/m3	1.3	0.51	1.83		03/04/17 19:08	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 19:08	75-00-3	
Chloroform	**27.7**	ug/m3	0.91	0.35	1.83		03/04/17 19:08	67-66-3	
Chloromethane	**0.68J**	ug/m3	0.77	0.20	1.83		03/04/17 19:08	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 19:08	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/04/17 19:08	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 19:08	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 19:08	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 19:08	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 19:08	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 19:08	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 19:08	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.8	0.88	1.83		03/04/17 19:08	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 19:08	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 19:08	107-06-2	
1,1-Dichloroethene	**3.1**	ug/m3	1.5	0.44	1.83		03/04/17 19:08	75-35-4	
cis-1,2-Dichloroethene	**217**	ug/m3	1.5	0.45	1.83		03/04/17 19:08	156-59-2	
trans-1,2-Dichloroethene	**5.3**	ug/m3	1.5	0.70	1.83		03/04/17 19:08	156-60-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: VP-8D_62.5_20170221DUP **Lab ID: 10379929017** Collected: 02/21/17 13:11 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 19:08	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 19:08	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 19:08	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 19:08	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 19:08	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 19:08	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/04/17 19:08	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 19:08	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 19:08	87-68-3	
n-Hexane	**<0.65**	ug/m3	1.3	0.65	1.83		03/04/17 19:08	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/04/17 19:08	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 19:08	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 19:08	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 19:08	108-87-2	
Methylene Chloride	**4.2J**	ug/m3	6.5	0.99	1.83		03/04/17 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 19:08	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 19:08	1634-04-4	
2-Propanol	**2.7J**	ug/m3	4.6	0.44	1.83		03/04/17 19:08	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/04/17 19:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 19:08	79-34-5	
Tetrachloroethene	**390**	ug/m3	1.3	0.51	1.83		03/04/17 19:08	127-18-4	
Tetrachloroethene	**647**	ug/m3	404	81.4	292.8		03/05/17 21:49	127-18-4	A3
Toluene	**0.86J**	ug/m3	1.4	0.28	1.83		03/04/17 19:08	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 19:08	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 19:08	71-55-6	
1,1,2-Trichloroethane	**5.5**	ug/m3	1.0	0.45	1.83		03/04/17 19:08	79-00-5	
Trichloroethene	**2970**	ug/m3	1.0	0.51	1.83		03/04/17 19:08	79-01-6	
Trichloroethene	**13800**	ug/m3	161	80.8	292.8		03/05/17 21:49	79-01-6	A3
Trichlorofluoromethane	**9.3**	ug/m3	2.1	0.24	1.83		03/04/17 19:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	**181**	ug/m3	2.9	0.55	1.83		03/04/17 19:08	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/04/17 19:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 19:08	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 19:08	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/04/17 19:08	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/04/17 19:08	95-47-6	

Sample: FPM-20_5_20170221DUP **Lab ID: 10379929018** Collected: 02/21/17 13:47 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**30.6**	ug/m3	4.4	1.5	1.83		03/04/17 19:39	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 19:39	107-05-1	
Benzene	**1.4**	ug/m3	0.59	0.22	1.83		03/04/17 19:39	71-43-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: FPM-20_5_20170221DUP **Lab ID: 10379929018** Collected: 02/21/17 13:47 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 19:39	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 19:39	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 19:39	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 19:39	106-99-0	
2-Butanone (MEK)	**5.2J**	ug/m3	5.5	0.42	1.83		03/04/17 19:39	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/04/17 19:39	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/04/17 19:39	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 19:39	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 19:39	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 19:39	75-00-3	
Chloroform	**<0.35**	ug/m3	0.91	0.35	1.83		03/04/17 19:39	67-66-3	
Chloromethane	**0.92**	ug/m3	0.77	0.20	1.83		03/04/17 19:39	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 19:39	76-15-3	
Cyclohexane	**0.98J**	ug/m3	1.3	0.58	1.83		03/04/17 19:39	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 19:39	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 19:39	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 19:39	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 19:39	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 19:39	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 19:39	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.8	0.88	1.83		03/04/17 19:39	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 19:39	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 19:39	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 19:39	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/04/17 19:39	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/04/17 19:39	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 19:39	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 19:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 19:39	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 19:39	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 19:39	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 19:39	123-91-1	
Ethylbenzene	**8.7**	ug/m3	1.6	0.78	1.83		03/04/17 19:39	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 19:39	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 19:39	87-68-3	
n-Hexane	**2.3**	ug/m3	1.3	0.65	1.83		03/04/17 19:39	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/04/17 19:39	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 19:39	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 19:39	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 19:39	108-87-2	
Methylene Chloride	**8.6**	ug/m3	6.5	0.99	1.83		03/04/17 19:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 19:39	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 19:39	1634-04-4	
2-Propanol	**39.7**	ug/m3	4.6	0.44	1.83		03/04/17 19:39	67-63-0	
Styrene	**0.84J**	ug/m3	1.6	0.35	1.83		03/04/17 19:39	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 19:39	79-34-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample: FPM-20_5_20170221DUP **Lab ID: 10379929018** Collected: 02/21/17 13:47 Received: 02/23/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 19:39	127-18-4	
Toluene	**3.6**	ug/m3	1.4	0.28	1.83		03/04/17 19:39	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 19:39	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 19:39	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/04/17 19:39	79-00-5	
Trichloroethene	**2.7**	ug/m3	1.0	0.51	1.83		03/04/17 19:39	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.1	0.24	1.83		03/04/17 19:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/04/17 19:39	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/04/17 19:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 19:39	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 19:39	75-01-4	
m&p-Xylene	**38.0**	ug/m3	3.2	1.4	1.83		03/04/17 19:39	179601-23-1	
o-Xylene	**9.7**	ug/m3	1.6	0.64	1.83		03/04/17 19:39	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Appendix C

Support Documentation

ANALYTE	ORIGINAL FPM-20_5	DUPLICATE FPM-20_5 DUP	RL	RPD	RPD > 50%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
2-BUTANONE	1.3	5.2	5.5	120.000	TRUE	FALSE	FALSE	FALSE
ACETONE	28.1	30.6	4.4	8.518	FALSE	TRUE	TRUE	FALSE
BENZENE	1.6	1.4	0.59	13.333	FALSE	TRUE	TRUE	FALSE
CARBON DISULFIDE	1.3	1.2	1.2	8.000	FALSE	FALSE	FALSE	FALSE
CHLOROMETHANE	1.1	0.92	0.77	17.822	FALSE	FALSE	FALSE	FALSE
CYCLOHEXANE	1.3	0.98	1.3	28.070	FALSE	FALSE	FALSE	FALSE
DICHLORODIFLUOROMETHANE	2.7	2.1	1.8	25.000	FALSE	FALSE	FALSE	FALSE
ETHYLBENZENE	10.1	8.7	1.6	14.894	FALSE	TRUE	TRUE	FALSE
HEXANE	2.5	2.3	1.3	8.333	FALSE	FALSE	FALSE	FALSE
ISOPROPANOL	51.8	39.7	4.6	26.448	FALSE	TRUE	TRUE	TRUE
M+P-XYLENES	43.3	38	3.2	13.038	FALSE	TRUE	TRUE	FALSE
METHYLENE CHLORIDE	13.5	8.6	6.5	44.344	FALSE	TRUE	FALSE	FALSE
O-XYLENE	11	9.7	1.6	12.560	FALSE	TRUE	TRUE	FALSE
STYRENE	1.4	0.84	1.6	50.000	FALSE	FALSE	FALSE	FALSE
TOLUENE	4.2	3.6	1.4	15.385	FALSE	TRUE	TRUE	FALSE
TRICHLOROFLUOROMETHANE	1.5	1.2	2.1	22.222	FALSE	FALSE	FALSE	FALSE
TRICHLOROETHENE	1	2.7	1	91.892	TRUE	FALSE	TRUE	FALSE

ANALYTE	ORIGINAL VP-8D_62.5	DUPLICATE VP-8D_62.5DUP	RL	RPD	RPD > 50%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
1,1,1-TRICHLOROETHANE	1	2	1.9	66.667	TRUE	FALSE	FALSE	FALSE
1,1,2-TRICHLOROETHANE	12.1	5.5	0.96	75.000	TRUE	TRUE	TRUE	TRUE
1,1,2-TRICHLOROTRIFLUOROETHANE	402	181	2.8	75.815	TRUE	TRUE	TRUE	TRUE
1,1-DICHLOROETHENE	7	3.1	1.4	77.228	TRUE	TRUE	TRUE	TRUE
2-HEXANONE	1	7.6	7.3	153.488	TRUE	FALSE	FALSE	FALSE
ACETONE	15.2	7.8	4.2	64.348	TRUE	TRUE	FALSE	FALSE
BENZENE	0.71	0.58	0.57	20.155	FALSE	FALSE	FALSE	FALSE
CARBON TETRACHLORIDE	0.83	1.2	1.1	36.453	FALSE	FALSE	FALSE	FALSE
CHLORODIFLUOROMETHANE	171	76.4	1.3	76.475	TRUE	TRUE	TRUE	TRUE
CHLOROFORM	66.8	27.7	0.87	82.751	TRUE	TRUE	TRUE	TRUE
DICHLORODIFLUOROMETHANE	2.5	2.5	1.8	0.000	FALSE	FALSE	FALSE	FALSE
HEXANE	2.7	1.3	1.3	70.000	TRUE	TRUE	FALSE	FALSE
ISOPROPANOL	2.2	2.7	4.4	20.408	FALSE	FALSE	FALSE	FALSE
METHYLENE CHLORIDE	20	4.2	6.2	130.579	TRUE	TRUE	FALSE	TRUE
TOLUENE	4.6	0.86	1.3	136.996	TRUE	TRUE	FALSE	TRUE
TRANS-1,2-DICHLOROETHENE	12.5	5.3	1.4	80.899	TRUE	TRUE	TRUE	TRUE
TRICHLOROFLUOROMETHANE	21.3	9.3	2	78.431	TRUE	TRUE	TRUE	TRUE
VINYL CHLORIDE	0.53	0.48	0.46	9.901	FALSE	FALSE	FALSE	FALSE
CIS-1,2-DICHLOROETHENE	917	217	454	123.457	TRUE	TRUE	FALSE	FALSE
TETRACHLOROETHENE	1460	647	772	77.171	TRUE	FALSE	FALSE	FALSE
TRICHLOROETHENE	32800	13800	308	81.545	TRUE	TRUE	TRUE	TRUE
CHLOROMETHANE	0.74	0.68	0.74	8.451	FALSE	FALSE	FALSE	FALSE

10379929

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26422

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE STATION, NJ
Email To: DALLAS.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELLOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-0507644

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☒ mg/m³ ☐ PPBV ☐ PPMV ☐ Other

Report Level II. ☐ III. ☐ IV. ☐ Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15*	TO15 Short List*	Pace Lab ID
1	VP-104_5_20170221	6LC		2/21/17	0905	2/21/17	1236	-30	-8	0595	0103							X			001
2	VP-104_10_20170221				0905		1236	-30	-9	2038	0549							X			002
3	VP-104_19_20170221				0905		1238	-30	-9	2095	0033							X			003
4	VP-104_30_20170221				0906		1237	-27	-8	0960	0426							X			004
5	VP-104_40_20170221				0906		1237	-30	-9	1283	0037							X			005
6	VP-104_50_20170221				0906		1238	-30	-9	1498	0041							X			006
7	VP-104_62_20170221				0906		1238	-30	-9	0930	0094							X			007
8	VP-104_73_20170221				0907		1238	-30	-9	2131	0082							X			008
9	FPM-20_5_20170221				1001		1347	-28	-8	0005	0597							X			009
10	FPM-20_9.4_20170221				1000		1324	-30	-9	0085	0145							X			010
11	VP-8_5_20170221				0945		1405	-30	-9	2333	0264							X			011
12	VP-8_10_20170221	↓		↓	0945	↓	1335	-30	-8	2842	0040							X			012

Comments :

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
TR / TETRA TECH	2/22/17	1056		2/22/17	1056
			[signature] PACE	22317	0950

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
		Y/N	Y/N	Y/N
ANG		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JON BUK, ANDREW KELLY
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY): 2/21/17

ORIGINAL

10379429

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26424

Page: 2 of 2

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE STATION, NJ
Email To: DALLAS.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELLOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-05076.04

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level: II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information / AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	P/D Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15 X	TO15 Short List*	Pace Lab ID
1	VP-8_20_20170221	6K		2/21/17	0945	2/21/17	1335	-29	-8	2323	0428							Y			013
2	VP-8D_53.5_20170221				0941		1310	-30	-9	1033	0049							X			014
3	VP-8D_62.5_20170221				0941		1311	-30	-8	2113	0606							X			015
4	VP-8D_72.5_20170221				0941		1311	-29	-9	2603	0025							X			016
5	VP-8D_62.5_20170221DUP				0941		1311	-30	-9	2136	0129							X			017
6	(30) ~~VP~~ FPM-20_5_20170221DUP	↓		↓	1001	↓	1347	-30	-10	1252	0051							X			018
7																					019-020 unused
8																					
9																					
10																					
11																					
12																					

Comments:
* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] /TT	2/22/17	1056	[signature]	2/22/17	1056
			[signature] Pace	22317	0950

SAMPLE CONDITIONS

	Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
AMB		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JON BUK, ANDREW KEWS
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 2/21/17

ORIGINAL

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Date: March 13, 2017

VP-104_5_20170221 (Lab ID: 10379929001)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_10_20170221 (Lab ID: 10379929002)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_19_20170221 (Lab ID: 10379929003)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_30_20170221 (Lab ID: 10379929004)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_40_20170221 (Lab ID: 10379929005)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_50_20170221 (Lab ID: 10379929006)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_62_20170221 (Lab ID: 10379929007)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-104_73_20170221 (Lab ID: 10379929008)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

FPM-20_5_20170221 (Lab ID: 10379929009)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

FPM-20_9.4_20170221 (Lab ID: 10379929010)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8_5_20170221 (Lab ID: 10379929011)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8_10_20170221 (Lab ID: 10379929012)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8_20_20170221 (Lab ID: 10379929013)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8D_53.5_20170221 (Lab ID: 10379929014)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8D_62.5_20170221 (Lab ID: 10379929015)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8D_72.5_20170221 (Lab ID: 10379929016)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-8D_62.5_20170221DUP (Lab ID: 10379929017)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Date: March 13, 2017

FPM-20_5_20170221DUP (Lab ID: 10379929018)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

General Information:
18 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 462461

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure

- LCS (Lab ID: 2528756)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

QC Batch: 462564

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure

- LCS (Lab ID: 2529400)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

Analyte Comments:

QC Batch: 462564

A3: The sample was analyzed by serial dilution.

- VP-8D_53.5_20170221 (Lab ID: 10379929014)
  - cis-1,2-Dichloroethene
  - Methylene Chloride
  - Tetrachloroethene
  - Trichloroethene
- VP-8D_62.5_20170221 (Lab ID: 10379929015)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
- VP-8D_62.5_20170221DUP (Lab ID: 10379929017)
  - Tetrachloroethene
  - Trichloroethene
- VP-8D_72.5_20170221 (Lab ID: 10379929016)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10379929001	**VP-104_5_20170221**	Air	02/21/17 12:36	02/23/17 09:50
10379929002	**VP-104_10_20170221**	Air	02/21/17 12:36	02/23/17 09:50
10379929003	**VP-104_19_20170221**	Air	02/21/17 12:38	02/23/17 09:50
10379929004	**VP-104_30_20170221**	Air	02/21/17 12:37	02/23/17 09:50
10379929005	**VP-104_40_20170221**	Air	02/21/17 12:37	02/23/17 09:50
10379929006	**VP-104_50_20170221**	Air	02/21/17 12:38	02/23/17 09:50
10379929007	**VP-104_62_20170221**	Air	02/21/17 12:38	02/23/17 09:50
10379929008	**VP-104_73_20170221**	Air	02/21/17 12:38	02/23/17 09:50
10379929009	**FPM-20_5_20170221**	Air	02/21/17 13:47	02/23/17 09:50
10379929010	**FPM-20_9.4_20170221**	Air	02/21/17 13:24	02/23/17 09:50
10379929011	**VP-8_5_20170221**	Air	02/21/17 14:05	02/23/17 09:50
10379929012	**VP-8_10_20170221**	Air	02/21/17 13:35	02/23/17 09:50
10379929013	**VP-8_20_20170221**	Air	02/21/17 13:35	02/23/17 09:50
10379929014	**VP-8D_53.5_20170221**	Air	02/21/17 13:10	02/23/17 09:50
10379929015	**VP-8D_62.5_20170221**	Air	02/21/17 13:11	02/23/17 09:50
10379929016	**VP-8D_72.5_20170221**	Air	02/21/17 13:11	02/23/17 09:50
10379929017	**VP-8D_62.5_20170221DUP**	Air	02/21/17 13:11	02/23/17 09:50
10379929018	**FPM-20_5_20170221DUP**	Air	02/21/17 13:47	02/23/17 09:50
10379929019	**Unused Can#1267**	Air		02/23/17 09:50
10379929020	**Unused Can#1258**	Air		02/23/17 09:50

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462461 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06204_27830.D Lab Sample ID: 2528755
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 08:54
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS for HBN 462461 [AIR/27830]	2528756	06202_27830.D	07:37
02	BLANK for HBN 462461 [AIR/2783	2528755	06204_27830.D	08:54
03	VP-104_5_20170221	10379929001	06217.D	15:49
04	VP-104_10_20170221	10379929002	06219.D	16:52
05	VP-104_19_20170221	10379929003	06221.D	17:55
06	VP-104_30_20170221	10379929004	06222.D	18:26
07	VP-104_40_20170221	10379929005	06223.D	18:58
08	VP-104_50_20170221	10379929006	06224.D	19:29
09	VP-104_62_20170221	10379929007	06225.D	20:01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

QC Batch: 462461 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10379929001, 10379929002, 10379929003, 10379929004, 10379929005, 10379929006, 10379929007

METHOD BLANK: 2528755 Matrix: Air
Associated Lab Samples: 10379929001, 10379929002, 10379929003, 10379929004, 10379929005, 10379929006, 10379929007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/03/17 08:54	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/03/17 08:54	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/03/17 08:54	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/03/17 08:54	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/03/17 08:54	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/03/17 08:54	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/03/17 08:54	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/03/17 08:54	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/03/17 08:54	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/03/17 08:54	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/03/17 08:54	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/03/17 08:54	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/03/17 08:54	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/03/17 08:54	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/03/17 08:54	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/03/17 08:54	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/03/17 08:54	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/03/17 08:54	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/03/17 08:54	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/03/17 08:54	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/03/17 08:54	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/03/17 08:54	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/03/17 08:54	
Acetone	ug/m3	<0.83	2.4	0.83	03/03/17 08:54	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/03/17 08:54	
Benzene	ug/m3	<0.12	0.32	0.12	03/03/17 08:54	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/03/17 08:54	
Bromoform	ug/m3	<0.90	2.1	0.90	03/03/17 08:54	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/03/17 08:54	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/03/17 08:54	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/03/17 08:54	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/03/17 08:54	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/03/17 08:54	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/03/17 08:54	
Chloroform	ug/m3	<0.19	0.50	0.19	03/03/17 08:54	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/03/17 08:54	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/03/17 08:54	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/03/17 08:54	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/03/17 08:54	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/03/17 08:54	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/03/17 08:54	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

METHOD BLANK: 2528755 Matrix: Air
Associated Lab Samples: 10379929001, 10379929002, 10379929003, 10379929004, 10379929005, 10379929006, 10379929007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/03/17 08:54	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/03/17 08:54	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/03/17 08:54	
Freon 123	ug/m3	<3.2	3.2	3.2	03/03/17 08:54	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/03/17 08:54	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/03/17 08:54	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/03/17 08:54	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/03/17 08:54	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/03/17 08:54	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/03/17 08:54	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/03/17 08:54	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/03/17 08:54	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/03/17 08:54	
Styrene	ug/m3	<0.19	0.87	0.19	03/03/17 08:54	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/03/17 08:54	
Toluene	ug/m3	<0.15	0.77	0.15	03/03/17 08:54	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/03/17 08:54	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/03/17 08:54	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/03/17 08:54	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/03/17 08:54	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/03/17 08:54	

LABORATORY CONTROL SAMPLE: 2528756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.7	108	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	82.6	118	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	59.6	108	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	80.0	103	66-131	
1,1-Dichloroethane	ug/m3	41.1	43.3	105	62-139	
1,1-Dichloroethene	ug/m3	40.3	42.4	105	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	68.3	90	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	60.2	120	57-143	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	100	102	50-150	1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	86.6	111	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	62.5	102	57-141	
1,2-Dichloroethane	ug/m3	41.1	43.2	105	61-144	
1,2-Dichloropropane	ug/m3	47	51.8	110	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	54.2	108	54-147	
1,3-Butadiene	ug/m3	22.5	24.9	111	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	65.1	107	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	70.8	116	57-143	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	41.6	114	58-144	
2-Butanone (MEK)	ug/m3	30	30.4	102	66-144	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

LABORATORY CONTROL SAMPLE: 2528756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	123	118	63-147	
2-Propanol	ug/m3	125	135	108	54-146	
4-Ethyltoluene	ug/m3	50	52.2	105	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	116	112	58-150	
Acetone	ug/m3	121	116	96	46-140	
Allyl chloride	ug/m3	79.5	85.3	107	65-142	
Benzene	ug/m3	32.5	35.1	108	62-141	
Bromodichloromethane	ug/m3	68.1	75.9	112	58-149	
Bromoform	ug/m3	105	110	105	61-150	
Bromomethane	ug/m3	39.5	41.5	105	58-136	
Carbon disulfide	ug/m3	31.6	36.6	116	59-135	
Carbon tetrachloride	ug/m3	64	72.6	113	60-149	
Chlorobenzene	ug/m3	46.8	50.6	108	60-150	
Chlorodifluoromethane	ug/m3	36	38.6	107	70-130	
Chloroethane	ug/m3	26.8	28.1	105	61-136	
Chloroform	ug/m3	49.6	53.7	108	65-138	
Chloromethane	ug/m3	21	22.2	106	62-133	
Chloropentafluoroethane	ug/m3	64.2	74.2	115	50-150	1M
cis-1,2-Dichloroethene	ug/m3	40.3	43.5	108	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	49.0	106	61-149	
Cyclohexane	ug/m3	35	36.7	105	64-134	
Dibromochloromethane	ug/m3	86.6	92.7	107	59-150	
Dichlorodifluoromethane	ug/m3	50.3	54.8	109	63-134	
Dichlorotetrafluoroethane	ug/m3	71	74.1	104	62-134	
Ethylbenzene	ug/m3	44.1	50.3	114	59-149	
Freon 123	ug/m3	63.6	57.6	91	50-150	1M
Hexachloro-1,3-butadiene	ug/m3	108	106	98	42-150	
Isopropylbenzene (Cumene)	ug/m3	50	54.5	109	65-150	
m&p-Xylene	ug/m3	88.3	98.7	112	59-146	
Methyl acetate	ug/m3	30.8	32.2	104	50-150	1M
Methyl-tert-butyl ether	ug/m3	91.6	97.1	106	64-135	
Methylcyclohexane	ug/m3	40.8	43.6	107	70-130	
Methylene Chloride	ug/m3	177	177	100	64-128	
n-Hexane	ug/m3	35.8	37.7	105	50-138	
o-Xylene	ug/m3	44.1	49.7	113	54-149	
Styrene	ug/m3	43.3	45.0	104	54-150	
Tetrachloroethene	ug/m3	68.9	71.7	104	60-142	
Toluene	ug/m3	38.3	41.4	108	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	44.3	110	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	49.6	108	59-145	
Trichloroethene	ug/m3	54.6	58.5	107	60-144	
Trichlorofluoromethane	ug/m3	57.1	58.0	102	59-134	
Vinyl chloride	ug/m3	26	27.4	106	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample VP-104_5_20170221

SAMPLE DUPLICATE: 2529325

Parameter	Units	10379929001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.71J	0.74J		25	
1,1-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<1.6	<1.6		25	
1,2,4-Trimethylbenzene	ug/m3	1.2J	1.1J		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.6	<8.6		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4		25	
1,2-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,2-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	<0.32	<0.32		25	
1,3-Butadiene	ug/m3	<0.31	<0.31		25	
1,3-Dichlorobenzene	ug/m3	<0.93	<0.93		25	
1,4-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.62	<0.62		25	
2-Butanone (MEK)	ug/m3	3.0J	3.3J		25	
2-Hexanone	ug/m3	<0.72	<0.72		25	
2-Propanol	ug/m3	5.2	5.5	4	25	
4-Ethyltoluene	ug/m3	1.1J	<0.33		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.38	<0.38		25	
Acetone	ug/m3	16.1	17.0	6	25	
Allyl chloride	ug/m3	<0.40	<0.40		25	
Benzene	ug/m3	0.63	0.69	8	25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<1.6	<1.6		25	
Bromomethane	ug/m3	<0.54	<0.54		25	
Carbon disulfide	ug/m3	<0.18	<0.18		25	
Carbon tetrachloride	ug/m3	<0.34	<0.34		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.48	<0.48		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	0.95	1.0	5	25	
Chloropentafluoroethane	ug/m3	<5.6	<5.6		25	
cis-1,2-Dichloroethene	ug/m3	<0.43	<0.43		25	
cis-1,3-Dichloropropene	ug/m3	<0.65	<0.65		25	
Cyclohexane	ug/m3	<0.55	<0.55		25	
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	2.2	2.4	9	25	
Dichlorotetrafluoroethane	ug/m3	<0.54	<0.54		25	
Ethylbenzene	ug/m3	1.0J	1.1J		25	
Freon 123	ug/m3	<5.6	<5.6		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.24	<0.24		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

SAMPLE DUPLICATE: 2529325

Parameter	Units	10379929001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	4.2	4.3	0	25	
Methyl acetate	ug/m3	<2.7	<2.7		25	
Methyl-tert-butyl ether	ug/m3	<0.53	<0.53		25	
Methylcyclohexane	ug/m3	<0.42	<0.42		25	
Methylene Chloride	ug/m3	32.0	33.5	4	25	
n-Hexane	ug/m3	1.4	1.4	1	25	
o-Xylene	ug/m3	1.1J	1.1J		25	
Styrene	ug/m3	<0.34	0.78J		25	
Tetrachloroethene	ug/m3	<0.49	<0.49		25	
Toluene	ug/m3	2.3	2.4	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.67	<0.67		25	
trans-1,3-Dichloropropene	ug/m3	<0.46	<0.46		25	
Trichloroethene	ug/m3	<0.48	<0.48		25	
Trichlorofluoromethane	ug/m3	1.3J	1.4J		25	
Vinyl chloride	ug/m3	<0.34	<0.34		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462564 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06312_27836.D Lab Sample ID: 2529399
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 12:20
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS for HBN 462564 [AIR/27836]	2529400	06302_27836.D	06:56
02	BLANK for HBN 462564 [AIR/2783	2529399	06312_27836.D	12:20
03	VP-104_73_20170221	10379929008	06313.D	12:51
04	FPM-20_5_20170221	10379929009	06314.D	13:23
05	FPM-20_9.4_20170221	10379929010	06315.D	13:54
06	VP-8_5_20170221	10379929011	06317.D	14:53
07	VP-8_10_20170221	10379929012	06318.D	15:25
08	VP-8_20_20170221	10379929013	06320.D	16:28
09	VP-8D_53.5_20170221	10379929014	06322.D	17:34
10	VP-8D_62.5_20170221	10379929015	06323.D	18:05
11	VP-8D_72.5_20170221	10379929016	06324.D	18:36
12	VP-8D_62.5_20170221DUP	10379929017	06325.D	19:08
13	FPM-20_5_20170221DUP	10379929018	06326.D	19:39

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

QC Batch: 462564 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10379929008, 10379929009, 10379929010, 10379929011, 10379929012, 10379929013, 10379929014, 10379929015, 10379929016, 10379929017, 10379929018

METHOD BLANK: 2529399 Matrix: Air
Associated Lab Samples: 10379929008, 10379929009, 10379929010, 10379929011, 10379929012, 10379929013, 10379929014, 10379929015, 10379929016, 10379929017, 10379929018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/04/17 12:20	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/04/17 12:20	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/04/17 12:20	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/04/17 12:20	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/04/17 12:20	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/04/17 12:20	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/04/17 12:20	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/04/17 12:20	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/04/17 12:20	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/04/17 12:20	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/04/17 12:20	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/04/17 12:20	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/04/17 12:20	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/04/17 12:20	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/04/17 12:20	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/04/17 12:20	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/04/17 12:20	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/04/17 12:20	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/04/17 12:20	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/04/17 12:20	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/04/17 12:20	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/04/17 12:20	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/04/17 12:20	
Acetone	ug/m3	<0.83	2.4	0.83	03/04/17 12:20	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/04/17 12:20	
Benzene	ug/m3	<0.12	0.32	0.12	03/04/17 12:20	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/04/17 12:20	
Bromoform	ug/m3	<0.90	2.1	0.90	03/04/17 12:20	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/04/17 12:20	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/04/17 12:20	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/04/17 12:20	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/04/17 12:20	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/04/17 12:20	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/04/17 12:20	
Chloroform	ug/m3	<0.19	0.50	0.19	03/04/17 12:20	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/04/17 12:20	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/04/17 12:20	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/04/17 12:20	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/04/17 12:20	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/04/17 12:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

METHOD BLANK: 2529399 Matrix: Air

Associated Lab Samples: 10379929008, 10379929009, 10379929010, 10379929011, 10379929012, 10379929013, 10379929014, 10379929015, 10379929016, 10379929017, 10379929018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/04/17 12:20	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/04/17 12:20	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/04/17 12:20	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/04/17 12:20	
Freon 123	ug/m3	<3.2	3.2	3.2	03/04/17 12:20	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/04/17 12:20	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/04/17 12:20	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/04/17 12:20	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/04/17 12:20	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/04/17 12:20	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/04/17 12:20	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/04/17 12:20	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/04/17 12:20	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/04/17 12:20	
Styrene	ug/m3	<0.19	0.87	0.19	03/04/17 12:20	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/04/17 12:20	
Toluene	ug/m3	<0.15	0.77	0.15	03/04/17 12:20	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/04/17 12:20	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/04/17 12:20	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/04/17 12:20	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/04/17 12:20	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/04/17 12:20	

LABORATORY CONTROL SAMPLE: 2529400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.0	99	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.2	109	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	51.6	93	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	70.6	91	66-131	
1,1-Dichloroethane	ug/m3	41.1	39.7	97	62-139	
1,1-Dichloroethene	ug/m3	40.3	38.0	94	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	72.1	96	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	56.6	113	57-143	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	101	103	50-150	1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	77.4	99	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	59.7	98	57-141	
1,2-Dichloroethane	ug/m3	41.1	39.4	96	61-144	
1,2-Dichloropropane	ug/m3	47	44.9	96	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	50.7	102	54-147	
1,3-Butadiene	ug/m3	22.5	22.4	99	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	62.7	103	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	67.7	111	57-143	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

LABORATORY CONTROL SAMPLE: 2529400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	35.0	96	58-144	
2-Butanone (MEK)	ug/m3	30	27.2	91	66-144	
2-Hexanone	ug/m3	104	112	107	63-147	
2-Propanol	ug/m3	125	113	91	54-146	
4-Ethyltoluene	ug/m3	50	49.3	99	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	99.1	95	58-150	
Acetone	ug/m3	121	105	87	46-140	
Allyl chloride	ug/m3	79.5	76.1	96	65-142	
Benzene	ug/m3	32.5	31.5	97	62-141	
Bromodichloromethane	ug/m3	68.1	68.3	100	58-149	
Bromoform	ug/m3	105	99.6	95	61-150	
Bromomethane	ug/m3	39.5	37.3	95	58-136	
Carbon disulfide	ug/m3	31.6	32.9	104	59-135	
Carbon tetrachloride	ug/m3	64	67.3	105	60-149	
Chlorobenzene	ug/m3	46.8	43.8	94	60-150	
Chlorodifluoromethane	ug/m3	36	35.1	98	70-130	
Chloroethane	ug/m3	26.8	25.3	94	61-136	
Chloroform	ug/m3	49.6	51.0	103	65-138	
Chloromethane	ug/m3	21	19.7	94	62-133	
Chloropentafluoroethane	ug/m3	64.2	45.3	71	50-150	1M
cis-1,2-Dichloroethene	ug/m3	40.3	40.3	100	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	42.9	93	61-149	
Cyclohexane	ug/m3	35	33.5	96	64-134	
Dibromochloromethane	ug/m3	86.6	81.7	94	59-150	
Dichlorodifluoromethane	ug/m3	50.3	48.4	96	63-134	
Dichlorotetrafluoroethane	ug/m3	71	64.1	90	62-134	
Ethylbenzene	ug/m3	44.1	43.3	98	59-149	
Freon 123	ug/m3	63.6	55.0	86	50-150	1M
Hexachloro-1,3-butadiene	ug/m3	108	105	97	42-150	
Isopropylbenzene (Cumene)	ug/m3	50	49.2	98	65-150	
m&p-Xylene	ug/m3	88.3	86.8	98	59-146	
Methyl acetate	ug/m3	30.8	28.8	94	50-150	1M
Methyl-tert-butyl ether	ug/m3	91.6	85.3	93	64-135	
Methylcyclohexane	ug/m3	40.8	38.8	95	70-130	
Methylene Chloride	ug/m3	177	161	91	64-128	
n-Hexane	ug/m3	35.8	32.7	91	50-138	
o-Xylene	ug/m3	44.1	43.3	98	54-149	
Styrene	ug/m3	43.3	40.5	94	54-150	
Tetrachloroethene	ug/m3	68.9	64.0	93	60-142	
Toluene	ug/m3	38.3	36.2	94	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	40.8	101	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	44.0	95	59-145	
Trichloroethene	ug/m3	54.6	51.7	95	60-144	
Trichlorofluoromethane	ug/m3	57.1	51.4	90	59-134	
Vinyl chloride	ug/m3	26	25.1	97	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

Sample VP-8_10_20170221

SAMPLE DUPLICATE: 2529705

Parameter	Units	10379929012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.55	<0.55		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.51	<0.51		25	
1,1-Dichloroethane	ug/m3	<0.26	<0.26		25	
1,1-Dichloroethene	ug/m3	<0.40	<0.40		25	
1,2,4-Trichlorobenzene	ug/m3	<1.5	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	<0.21	<0.21		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.2	<8.2		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.3	<1.3		25	
1,2-Dichlorobenzene	ug/m3	<0.86	<0.86		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.45	<0.45		25	
1,3,5-Trimethylbenzene	ug/m3	<0.31	<0.31		25	
1,3-Butadiene	ug/m3	<0.30	<0.30		25	
1,3-Dichlorobenzene	ug/m3	<0.89	<0.89		25	
1,4-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.59	<0.59		25	
2-Butanone (MEK)	ug/m3	2.0J	2.1J		25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	1.1J	1.2J		25	
4-Ethyltoluene	ug/m3	<0.32	<0.32		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	9.2	9.6	4	25	
Allyl chloride	ug/m3	<0.38	<0.38		25	
Benzene	ug/m3	<0.20	<0.20		25	
Bromodichloromethane	ug/m3	<0.33	<0.33		25	
Bromoform	ug/m3	<1.5	<1.5		25	
Bromomethane	ug/m3	<0.52	<0.52		25	
Carbon disulfide	ug/m3	<0.17	<0.17		25	
Carbon tetrachloride	ug/m3	<0.32	<0.32		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.46	<0.46		25	
Chloroethane	ug/m3	<0.33	<0.33		25	
Chloroform	ug/m3	<0.32	<0.32		25	
Chloromethane	ug/m3	0.44J	0.54J		25	
Chloropentafluoroethane	ug/m3	<5.4	<5.4		25	
cis-1,2-Dichloroethene	ug/m3	<0.41	<0.41		25	
cis-1,3-Dichloropropene	ug/m3	<0.62	<0.62		25	
Cyclohexane	ug/m3	<0.53	<0.53		25	
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	2.1	2.3	8	25	
Dichlorotetrafluoroethane	ug/m3	<0.52	<0.52		25	
Ethylbenzene	ug/m3	<0.71	<0.71		25	
Freon 123	ug/m3	<5.3	<5.3		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.23	<0.23		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10379929

SAMPLE DUPLICATE: 2529705

Parameter	Units	10379929012 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	<1.3	<1.3		25	
Methyl acetate	ug/m3	<2.6	<2.6		25	
Methyl-tert-butyl ether	ug/m3	<0.51	<0.51		25	
Methylcyclohexane	ug/m3	<0.41	<0.41		25	
Methylene Chloride	ug/m3	5.4J	5.6J		25	
n-Hexane	ug/m3	<0.60	<0.60		25	
o-Xylene	ug/m3	<0.59	<0.59		25	
Styrene	ug/m3	<0.32	<0.32		25	
Tetrachloroethene	ug/m3	<0.47	<0.47		25	
Toluene	ug/m3	<0.26	<0.26		25	
trans-1,2-Dichloroethene	ug/m3	<0.65	<0.65		25	
trans-1,3-Dichloropropene	ug/m3	<0.44	<0.44		25	
Trichloroethene	ug/m3	0.76J	0.74J		25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J		25	
Vinyl chloride	ug/m3	<0.33	<0.33		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06301BFB.D BFB Injection Date: 03/04/2017
Instrument ID: 10AIR7 BFB Injection Time: 06:29
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.12	
75	30.00 - 66.00% of mass 95	45.98	
96	5.00 - 9.00% of mass 95	6.77	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	112.98	
175	4.00 - 9.00% of mass 174	8.39	(7.43)
176	93.00 - 101.00% of mass 174	107.16	(94.84)
177	5.00 - 9.00% of mass 176	6.75	(6.30)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	06304.D	03/04/2017	08:10
2	CAL2	CAL2	06305.D	03/04/2017	08:33
3	CAL3	CAL3	06306.D	03/04/2017	08:57
4	CAL4	CAL4	06307.D	03/04/2017	09:22
5	CAL5	CAL5	06308.D	03/04/2017	09:46
6	CAL6	CAL6	06309.D	03/04/2017	10:10
7	CAL7	CAL7	06310.D	03/04/2017	10:36
8	ICV	ICV	06312.D	03/04/2017	11:23

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Level 02: all \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Level 03: all \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Level 04: all \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Level 05: all \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Level 06: all \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Level 07: all \\192.168.10.12\chem\10air7.i\030417.b\06310.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 1,1-Difluoroethane	0.18111	0.15204	0.14148	0.14005	0.15288	0.13387	0.12877	AVRG		0.14717		11.79166
3 Chlorodifluoromethane	0.07689	0.08615	0.07325	0.07108	0.08210	0.07172	0.07001	AVRG		0.07589		8.10553
4 Propylene	+++++	10787	24024	42059	180601	307959	423114	QUAD	0.01670	0.20865	-0.01525	0.99867

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Dichlorodifluoromethane	0.98904	0.82087	0.75138	0.72298	0.81068	0.70408						
	0.64991							AVRG		0.77842		14.17474
6 Chloromethane	0.41370	0.34820	0.32044	0.28791	0.31728	0.28423						
	0.26350							AVRG		0.31932		15.69995
7 Dichlorotetrafluoroethane	0.91098	0.76795	0.69862	0.64257	0.71382	0.64785						
	0.60975							AVRG		0.71308		14.28867
8 Vinyl chloride	0.30182	0.25207	0.22813	0.19759	0.22828	0.21849						
	0.21391							AVRG		0.23433		14.53605
9 1,3-Butadiene	0.20068	0.20476	0.17263	0.14046	0.16520	0.16259						
	0.15606							AVRG		0.17177		13.60934
10 Bromomethane	0.33915	0.27409	0.25158	0.20993	0.24812	0.22606						
	0.23537							AVRG		0.25490		16.61207
11 Chloroethane	0.11167	0.10549	0.09141	0.07844	0.08914	0.07982						
	0.08496							AVRG		0.09156		13.79934

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Ethanol	+++++	0.07472	0.06247	0.05699	0.07461	0.07018					
	0.06714						AVRG		0.06769		10.35278
13 Vinyl Bromide	0.32277	0.30315	0.25019	0.22324	0.26068	0.23967					
	0.24659						AVRG		0.26375		13.62086
14 Isopentane	0.35956	0.29533	0.25267	0.21591	0.24207	0.21218					
	0.21678						AVRG		0.25636		21.09203
15 Freon 123	0.79325	0.65654	0.55136	0.48460	0.57521	0.52425					
	0.53947						AVRG		0.58924		17.72269
16 Trichlorofluoromethane	1.05912	0.84541	0.72952	0.66050	0.76025	0.68495					
	0.67444						AVRG		0.77346		18.22960
17 Acrolein	0.06364	0.05771	0.05178	0.04970	0.07636	0.07310					
	0.07384						AVRG		0.06373		17.25343
18 Acetone	0.69563	0.54453	0.45312	0.39229	0.38534	0.34935					
	0.32963						AVRG		0.44998		28.89110

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	0.55320	0.39786	0.33952	0.30601	0.37839	0.33893	0.33037	AVRG		0.37776		22.02850
20 1,1-Dichloroethene	0.55854	0.48630	0.38914	0.36101	0.42424	0.38885	0.38757	AVRG		0.42795		16.41783
21 Acrylonitrile	0.24579	0.19257	0.14989	0.13556	0.17495	0.16331	0.16143	AVRG		0.17478		20.66394
22 Freon 113	0.76635	0.67012	0.53081	0.49705	0.57101	0.50912	0.50483	AVRG		0.57847		17.69795
23 Tert Butyl Alcohol (TBA)	0.68863	0.54116	0.43359	0.42010	0.53095	0.47194	0.45324	AVRG		0.50566		18.37076
24 Methyl Acetate	0.67935	0.55213	0.41351	0.37165	0.50498	0.54279	0.53015	AVRG		0.51351		19.52732
25 Methylene chloride	0.44902	0.38749	0.29362	0.26731	0.29960	0.25736	0.24523	AVRG		0.31423		24.08659

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Allyl Chloride	0.09201	0.06725	0.05594	0.05370	0.08726	0.08171	0.08148	AVRG		0.07419		20.58467
27 Carbon Disulfide	0.70211	0.62527	0.47083	0.44569	0.54768	0.50996	0.49982	AVRG		0.54305		16.76667
28 trans-1,2-dichloroethene	0.31043	0.26637	0.19728	0.18347	0.23017	0.21253	0.21008	AVRG		0.23005		19.21965
29 Methyl Tert Butyl Ether	0.85058	0.70517	0.55603	0.52375	0.61838	0.55836	0.53671	AVRG		0.62128		19.10150
30 Vinyl Acetate	0.65245	0.51289	0.38381	0.36111	0.66299	0.61267	0.60278	AVRG		0.54124		23.13979
31 1,1-Dichloroethane	0.59566	0.53825	0.40477	0.37151	0.43540	0.40825	0.40279	AVRG		0.45095		18.41783
33 Methyl Ethyl Ketone	0.10975	0.09063	0.07747	0.06918	0.08306	0.08021	0.08444	AVRG		0.08496		15.02794

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
34 n-Hexane	0.49505	0.38194	0.29012	0.26654	0.32223	0.30199	0.29344	AVRG		0.33590		23.53414
35 Di-isopropyl Ether	1.15856	1.01441	0.72832	0.69377	0.80420	0.74512	0.72383	AVRG		0.83832		21.20027
36 cis-1,2-Dichloroethene	0.34478	0.26113	0.20753	0.20237	0.25027	0.23811	0.23353	AVRG		0.24825		19.15751
37 Ethyl Acetate	0.74550	0.62080	0.45744	0.41137	0.52187	0.49129	0.48013	AVRG		0.53263		21.41013
38 Ethyl Tert-Butyl Ether	1.08365	0.88290	0.69310	0.66990	0.78813	0.69823	0.65359	AVRG		0.78136		19.90827
39 Chloroform	0.76379	0.60028	0.48325	0.47456	0.56736	0.50859	0.48321	AVRG		0.55443		18.73259
40 Tetrahydrofuran	0.39158	0.27969	0.22490	0.19971	0.25162	0.23667	0.23472	AVRG		0.25984		24.24849

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
41 1,1,1-Trichloroethane	0.81835	0.75072	0.62710	0.63490	0.70185	0.64800						
	0.56467							AVRG		0.67794		12.59517
42 1,2-Dichloroethane	0.56439	0.51531	0.42044	0.40976	0.47359	0.43113						
	0.37801							AVRG		0.45609		14.34329
43 Benzene	1.07284	0.88959	0.72018	0.66791	0.75966	0.67624						
	0.63857							AVRG		0.77500		20.05310
44 Carbon tetrachloride	0.85664	0.75370	0.67344	0.64165	0.84291	0.74234						
	0.69191							AVRG		0.74323		11.08564
45 Cyclohexane	0.53866	0.45518	0.36798	0.33439	0.37785	0.33080						
	0.31363							AVRG		0.38836		20.86348
46 Tert Amyl Methyl Ether	18647	25344	41376	67237	631504	1150933						
	1645384							LINR	0.02495	0.66171		0.99812
48 2,2,4-Trimethylpentane	1.75547	1.48033	1.23246	1.12863	1.16476	1.00746						
	0.93349							AVRG		1.24323		22.97567

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
49 Heptane	0.69456	0.60115	0.49179	0.44936	0.47986	0.42683						
	0.41096							AVRG		0.50779		20.33583
50 1,2-Dichloropropane	0.38498	0.34645	0.28683	0.26292	0.28885	0.26355						
	0.25495							AVRG		0.29836		16.41511
51 Trichloroethene	0.65894	0.53485	0.44695	0.41880	0.45115	0.40205						
	0.38994							AVRG		0.47181		20.18391
52 Methyl methacrylate	0.31309	0.25264	0.20751	0.19039	0.23663	0.21150						
	0.20734							AVRG		0.23130		17.98156
53 Bromodichloromethane	0.85004	0.66061	0.57468	0.55637	0.69541	0.61495						
	0.59516							AVRG		0.64960		15.50468
54 1,4-Dioxane	0.19217	0.12514	0.12103	0.09914	0.13515	0.12174						
	0.10591							AVRG		0.12861		23.71939
55 Methylcyclohexane	0.20695	0.18819	0.16392	0.15373	0.16641	0.15001						
	0.14614							AVRG		0.16791		13.20429

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
56 Methyl Isobutyl Ketone	0.94008	0.76944	0.64591	0.60234	0.66394	0.58030	0.54302	AVRG		0.67786		20.13436
57 cis-1,3-Dichloropropene	0.53196	0.46542	0.38894	0.37703	0.45778	0.42009	0.41095	AVRG		0.43603		12.25055
58 trans-1,3-Dichloropropene	0.47623	0.38997	0.33079	0.32546	0.44100	0.40042	0.39676	AVRG		0.39438		13.78300
60 Toluene	1.30936	1.05721	0.87799	0.85230	0.91315	0.80818	0.79683	AVRG		0.94500		19.32586
61 1,1,2-Trichloroethane	0.49909	0.39686	0.32841	0.30680	0.34582	0.31044	0.30449	AVRG		0.35599		19.91599
62 Methyl Butyl Ketone	1.48158	1.07284	0.89976	0.78574	0.91998	0.80189	0.75089	AVRG		0.95895		26.55539
63 n-Octane	1.33364	1.19767	0.97579	0.87398	0.97562	0.82909	0.78979	AVRG		0.99651		20.10190

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	1.40574	1.14246	1.00544	0.96546	1.32030	1.16829						
	1.11598							AVRG		1.16053		13.63011
65 1,2-Dibromoethane	1.23923	0.95229	0.82464	0.77768	0.94672	0.83421						
	0.80034							AVRG		0.91073		17.59608
66 Tetrachloroethene	1.39715	1.13722	0.94958	0.88344	0.96482	0.82785						
	0.78043							AVRG		0.99150		21.44522
68 Chlorobenzene	1.64503	1.34896	1.11282	1.05208	1.19725	1.06178						
	1.02113							AVRG		1.20558		18.56660
69 Ethyl Benzene	2.68170	2.11748	1.74498	1.60813	1.79893	1.60158						
	1.51856							AVRG		1.86734		21.91570
70 m&p-Xylene	2.32181	1.61619	1.34007	1.22977	1.37470	1.22051						
	1.15946							AVRG		1.46607		27.69555
71 Bromoform	1.09743	0.76969	0.65395	0.66845	1.24718	1.10637						
	1.04995							AVRG		0.94186		25.40218

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
72 n-Nonane	1.10533	0.98310	0.86584	0.81573	0.93953	0.80619	0.75031	AVRG		0.89515		13.67732
73 Styrene	1.25914	1.00308	0.85628	0.82715	0.98888	0.88878	0.85780	AVRG		0.95444		15.76717
74 o-Xylene	2.22542	1.63389	1.33291	1.27308	1.39708	1.21384	1.18006	AVRG		1.46518		25.07593
75 1,1,2,2-Tetrachloroethane	1.33192	0.93705	0.81911	0.71992	0.86382	0.76867	0.75225	AVRG		0.88468		23.78430
76 Isopropylbenzene	2.80306	2.26328	1.88591	1.77323	1.96929	1.74324	1.65475	AVRG		2.01325		19.90460
77 N-Propylbenzene	2.79585	2.20558	1.90501	1.78528	2.07758	1.83389	1.77153	AVRG		2.05353		17.74282
78 4-Ethyltoluene	2.63604	1.83663	1.61450	1.50396	1.76956	1.57110	1.52700	AVRG		1.77983		22.32553

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,3,5-Trimethylbenzene	2.18800	1.57727	1.44675	1.34114	1.47810	1.32787						
	1.26707							AVRG		1.51803		20.64799
80 n-Decane	0.52717	0.43327	0.38237	0.39327	0.47503	0.44851						
	0.44758							AVRG		0.44389		11.03656
81 Tert-Butyl Benzene	2.30782	1.75245	1.55311	1.48454	1.55886	1.39407						
	1.32630							AVRG		1.62531		20.31793
82 1,2,4-Trimethylbenzene	+++++	1.49817	1.30367	1.24419	1.34482	1.23228						
	1.18003							AVRG		1.30053		8.65728
83 1,3-Dichlorobenzene	1.32523	0.86694	0.73363	0.71623	0.87748	0.83667						
	0.81193							AVRG		0.88116		23.31102
84 Sec- Butylbenzene	2.71123	2.07668	1.85960	1.77781	1.90738	1.73642						
	1.68378							AVRG		1.96470		17.99683
86 Benzyl Chloride	0.84612	0.53888	0.48876	0.43831	0.75526	0.78311						
	0.79290							AVRG		0.66334		25.34511

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
87 1,4-Dichlorobenzene	1.23013	0.78568	0.66796	0.63289	0.79554	0.78246	0.76115	AVRG		0.80797		24.33559
88 p-Isopropyltoluene	2.18749	1.61840	1.50692	1.45354	1.59075	1.47831	1.44518	AVRG		1.61151		16.29089
89 1,2,3-Trimethylbenzene	2.10577	1.37677	1.19550	1.13893	1.22812	1.14252	1.10830	AVRG		1.32799		26.68105
90 1,2-Dichlorobenzene	1.13331	0.79009	0.67616	0.64131	0.76089	0.73286	0.71025	AVRG		0.77784		21.14866
91 N-Butylbenzene	1.54341	1.02181	0.96195	0.91772	1.09128	1.02328	1.02236	AVRG		1.08312		19.40332
92 1,2-Dibromo-3-Chloropropane	0.25131	0.16478	0.14018	0.12847	0.21499	0.20041	0.19818	AVRG		0.18548		23.41793
93 1,2,4-Trichlorobenzene	1286	1265	2814	4736	45723	103855	154120	LINR	-0.00059	0.09203		0.99912

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	2740	2805	6365	10481	90166	193658					
	268656						LINR	0.00402	0.16287		0.99759
95 Hexachlorobutadiene	+++++	3869	8007	17276	106467	187769					
	271135						QUAD	0.00678	0.19414	-0.01199	0.99899
$ 32 Hexane-d14(S)	0.28622	0.28708	0.25310	0.25577	0.26701	0.27695					
	0.28448						AVRG		0.27295		5.28674
$ 59 Toluene-d8 (S)	0.83074	0.84525	0.84391	0.83310	0.83807	0.83670					
	0.84836						AVRG		0.83944		0.78206
$ 85 1,4-dichlorobenzene-d4 (S)	0.35107	0.34678	0.36753	0.39357	0.43999	0.47901					
	0.48608						AVRG		0.40915		14.45556

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Average %RSD Results.
Calculated Average %RSD = 18.37878
Maximun Average %RSD = 0.000e+000
* Failed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06401BFB.D BFB Injection Date: 03/05/2017
Instrument ID: 10AIR7 BFB Injection Time: 09:07
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.04	
75	30.00 - 66.00% of mass 95	47.99	
96	5.00 - 9.00% of mass 95	5.69	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	112.34	
175	4.00 - 9.00% of mass 174	8.36	(7.45)
176	93.00 - 101.00% of mass 174	106.07	(94.42)
177	5.00 - 9.00% of mass 176	7.10	(6.69)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06405.D	03/05/2017	10:57
2	CERT	CERT	06409.D	03/05/2017	12:57
3	VP-104_50_20170221 DL	10379929006	06410.D	03/05/2017	13:20
4	VP-104_62_20170221 DL	10379929007	06411.D	03/05/2017	13:43
5	VP-104_73_20170221 DL	10379929008	06430.D	03/05/2017	21:26
6	VP-8D_62.5_20170221DUP DL	10379929017	06431.D	03/05/2017	21:49
7	VP-8D_72.5_20170221 DL	10379929016	06432.D	03/05/2017	22:12
8	VP-8D_62.5_20170221 DL	10379929015	06434.D	03/05/2017	22:56
9	VP-8D_53.5_20170221 DL	10379929014	06435.D	03/05/2017	23:19

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
1	Chloropentafluoroethane	++++	0.02467	0.02467	0.010	++++	30.00000	Aver	(a)	<-
2	1,1-Difluoroethane	0.14717	0.16070	0.16070	0.010	9.19075	30.00000	Aver		
3	Chlorodifluoromethane	0.07589	0.09014	0.09014	0.010	18.78115	30.00000	Aver		
4	Propylene	10.00000	10.39491	0.21712	0.010	3.94912	30.00000	Quad		
5	Dichlorodifluoromethane	0.77842	0.84732	0.84732	0.010	8.85147	30.00000	Aver		
6	Chloromethane	0.31932	0.39522	0.39522	0.010	23.76896	30.00000	Aver		
7	Dichlorotetrafluoroethane	0.71308	0.87638	0.87638	0.010	22.90060	30.00000	Aver		
8	Vinyl chloride	0.23433	0.30527	0.30527	0.010	30.27523	30.00000	Aver		<-
9	1,3-Butadiene	0.17177	0.22517	0.22517	0.010	31.09076	30.00000	Aver		<-
10	Bromomethane	0.25490	0.33911	0.33911	0.010	33.03582	30.00000	Aver		<-
11	Chloroethane	0.09156	0.12601	0.12601	0.010	37.62162	30.00000	Aver		<-
12	Ethanol	0.06769	0.10146	0.10146	0.005	49.89769	30.00000	Aver		<-
13	Vinyl Bromide	0.26375	0.35444	0.35444	0.010	34.38381	30.00000	Aver		<-
14	Isopentane	0.25636	0.33677	0.33677	0.010	31.36874	30.00000	Aver		<-
15	Freon 123	0.58924	0.76433	0.76433	0.010	29.71515	30.00000	Aver		
16	Trichlorofluoromethane	0.77346	0.99712	0.99712	0.010	28.91735	30.00000	Aver		
17	Acrolein	0.06373	0.10759	0.10759	0.010	68.81721	30.00000	Aver		<-
18	Acetone	0.44998	0.52379	0.52379	0.010	16.40266	30.00000	Aver	(M)	
19	Isopropyl Alcohol	0.37776	0.50842	0.50842	0.010	34.58851	30.00000	Aver	(M)	<-
20	1,1-Dichloroethene	0.42795	0.54717	0.54717	0.010	27.85938	30.00000	Aver		
21	Acrylonitrile	0.17478	0.23246	0.23246	0.010	33.00022	30.00000	Aver		<-
22	Freon 113	0.57847	0.74424	0.74424	0.010	28.65705	30.00000	Aver		
23	Tert Butyl Alcohol (TBA)	0.50566	0.67066	0.67066	0.010	32.63123	30.00000	Aver		<-
24	Methyl Acetate	0.51351	0.82768	0.82768	0.010	61.18090	30.00000	Aver		<-
25	Methylene chloride	0.31423	0.40695	0.40695	0.010	29.50656	30.00000	Aver		
26	Allyl Chloride	0.07419	0.11631	0.11631	0.010	56.75995	30.00000	Aver		<-
27	Carbon Disulfide	0.54305	0.75195	0.75195	0.010	38.46694	30.00000	Aver		<-
28	trans-1,2-dichloroethene	0.23005	0.31011	0.31011	0.010	34.80034	30.00000	Aver		<-
29	Methyl Tert Butyl Ether	0.62128	0.80114	0.80114	0.010	28.94925	30.00000	Aver		
30	Vinyl Acetate	0.54124	0.92853	0.92853	0.010	71.55574	30.00000	Aver		<-
31	1,1-Dichloroethane	0.45095	0.59948	0.59948	0.010	32.93880	30.00000	Aver		<-
$ 32	Hexane-d14(S)	0.27295	0.34769	0.34769	0.010	27.38392	30.00000	Aver		
33	Methyl Ethyl Ketone	0.08496	0.11690	0.11690	0.010	37.59416	30.00000	Aver	(M)	<-
34	n-Hexane	0.33590	0.44252	0.44252	0.010	31.74093	30.00000	Aver		<-
35	Di-isopropyl Ether	0.83832	1.14773	1.14773	0.010	36.90934	30.00000	Aver		<-
36	cis-1,2-Dichloroethene	0.24825	0.34100	0.34100	0.010	37.36292	30.00000	Aver		<-
37	Ethyl Acetate	0.53263	0.74553	0.74553	0.010	39.97234	30.00000	Aver	(M)	<-
38	Ethyl Tert-Butyl Ether	0.78136	1.03281	1.03281	0.010	32.18123	30.00000	Aver		<-
39	Chloroform	0.55443	0.74294	0.74294	0.010	33.99958	30.00000	Aver		<-
40	Tetrahydrofuran	0.25984	0.35926	0.35926	0.010	38.25941	30.00000	Aver		<-
41	1,1,1-Trichloroethane	0.67794	0.81945	0.81945	0.010	20.87318	30.00000	Aver		
42	1,2-Dichloroethane	0.45609	0.53209	0.53209	0.010	16.66260	30.00000	Aver		

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.77500	0.80498	0.80498	0.010	3.86803	30.00000	Aver		
	44 Carbon tetrachloride	0.74323	0.92152	0.92152	0.010	23.98948	30.00000	Aver		
	45 Cyclohexane	0.38836	0.39477	0.39477	0.010	1.65176	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.69668	0.79892	0.010	16.96676	30.00000	Line		
	48 2,2,4-Trimethylpentane	1.24323	1.25183	1.25183	0.010	0.69216	30.00000	Aver		
	49 Heptane	0.50779	0.51557	0.51557	0.010	1.53270	30.00000	Aver		
	50 1,2-Dichloropropane	0.29836	0.30815	0.30815	0.010	3.27955	30.00000	Aver		
	51 Trichloroethene	0.47181	0.47752	0.47752	0.010	1.21003	30.00000	Aver		
	52 Methyl methacrylate	0.23130	0.24772	0.24772	0.100	7.09771	30.00000	Aver		
	53 Bromodichloromethane	0.64960	0.74455	0.74455	0.010	14.61607	30.00000	Aver		
	54 1,4-Dioxane	0.12861	0.12973	0.12973	0.010	0.87017	30.00000	Aver		
	55 Methylcyclohexane	0.16791	0.17521	0.17521	0.010	4.35103	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.67786	0.71410	0.71410	0.010	5.34616	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.43603	0.49342	0.49342	0.010	13.16366	30.00000	Aver		
	58 trans-1,3-Dichloropropene	0.39438	0.46465	0.46465	0.010	17.81792	30.00000	Aver		
$	59 Toluene-d8 (S)	0.83944	0.83998	0.83998	0.010	0.06424	30.00000	Aver		
	60 Toluene	0.94500	0.96976	0.96976	0.010	2.62014	30.00000	Aver		
	61 1,1,2-Trichloroethane	0.35599	0.37560	0.37560	0.010	5.51036	30.00000	Aver		
	62 Methyl Butyl Ketone	0.95895	0.96352	0.96352	0.010	0.47665	30.00000	Aver		
	63 n-Octane	0.99651	0.98172	0.98172	0.010	-1.48414	30.00000	Aver		
	64 Dibromochloromethane	1.16053	1.41895	1.41895	0.010	22.26761	30.00000	Aver		
	65 1,2-Dibromoethane	0.91073	0.98957	0.98957	0.010	8.65734	30.00000	Aver		
	66 Tetrachloroethene	0.99150	0.99900	0.99900	0.010	0.75614	30.00000	Aver		
	68 Chlorobenzene	1.20558	1.24982	1.24982	0.010	3.66928	30.00000	Aver		
	69 Ethyl Benzene	1.86734	1.87603	1.87603	0.010	0.46550	30.00000	Aver		
	70 m&p-Xylene	1.46607	1.44383	1.44383	0.010	-1.51751	30.00000	Aver		
	71 Bromoform	0.94186	1.30855	1.30855	0.010	38.93275	30.00000	Aver		<-
	72 n-Nonane	0.89515	0.94581	0.94581	0.010	5.65972	30.00000	Aver		
	73 Styrene	0.95444	1.02412	1.02412	0.010	7.30062	30.00000	Aver		
	74 o-Xylene	1.46518	1.45915	1.45915	0.010	-0.41202	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.88468	0.90439	0.90439	0.010	2.22794	30.00000	Aver		
	76 Isopropylbenzene	2.01325	2.06612	2.06612	0.010	2.62627	30.00000	Aver		
	77 N-Propylbenzene	2.05353	2.15278	2.15278	0.010	4.83324	30.00000	Aver		
	78 4-Ethyltoluene	1.77983	1.84975	1.84975	0.010	3.92880	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.51803	1.55945	1.55945	0.010	2.72848	30.00000	Aver		
	80 n-Decane	0.44389	0.51638	0.51638	0.010	16.33197	30.00000	Aver		
	81 Tert-Butyl Benzene	1.62531	1.65129	1.65129	0.010	1.59888	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.30053	1.43062	1.43062	0.010	10.00293	30.00000	Aver		
	83 1,3-Dichlorobenzene	0.88116	0.96215	0.96215	0.010	9.19156	30.00000	Aver		
	84 Sec- Butylbenzene	1.96470	2.03457	2.03457	0.010	3.55622	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.40915	0.53689	0.53689	0.010	31.22218	30.00000	Aver	(M)	<-
	86 Benzyl Chloride	0.66334	0.81896	0.81896	0.010	23.46084	30.00000	Aver		

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.80797	0.88668	0.88668	0.010	9.74186	30.00000	Aver		
88 p-Isopropyltoluene	1.61151	1.69935	1.69935	0.010	5.45077	30.00000	Aver		
89 1,2,3-Trimethylbenzene	1.32799	1.35058	1.35058	0.010	1.70138	30.00000	Aver		
90 1,2-Dichlorobenzene	0.77784	0.82980	0.82980	0.010	6.67965	30.00000	Aver		
91 N-Butylbenzene	1.08312	1.19374	1.19374	0.010	10.21358	30.00000	Aver		
92 1,2-Dibromo-3-Chloropropane	0.18548	0.26447	0.26447	0.010	42.59310	30.00000	Aver		<-
93 1,2,4-Trichlorobenzene	10.00000	14.01379	0.12838	0.010	40.13788	30.00000	Line		<-
94 Naphthalene	10.00000	15.43546	0.25541	0.010	54.35462	30.00000	Line		<-
95 Hexachlorobutadiene	10.00000	14.18942	0.25812	0.010	41.89416	30.00000	Quad		<-

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Average %D / Drift Results.
Calculated Average %D/Drift = 20.47311
Maximun Average %D/Drift = 0.000e+000
* Failed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06101BFB.D BFB Injection Date: 03/02/2017
Instrument ID: 10AIRB BFB Injection Time: 07:16
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.18	
75	30.00 - 66.00% of mass 95	48.17	
96	5.00 - 9.00% of mass 95	6.23	
173	Less than 2.00% of mass 174	0.90	(0.94)
174	50.00 - 120.00% of mass 95	95.41	
175	4.00 - 9.00% of mass 174	6.96	(7.30)
176	93.00 - 101.00% of mass 174	91.75	(96.16)
177	5.00 - 9.00% of mass 176	5.98	(6.52)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	06109.D	03/02/2017	11:19
2	CAL2	CAL2	06110.D	03/02/2017	11:46
3	CAL3	CAL3	06111.D	03/02/2017	12:14
4	CAL4	CAL4	06112.D	03/02/2017	12:43
5	CAL5	CAL5	06113.D	03/02/2017	13:10
6	CAL6	CAL6	06114.D	03/02/2017	13:39
7	CAL7	CAL7	06115.D	03/02/2017	14:08
8	ICV	ICV	06117.D	03/02/2017	15:02

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Level 02: all \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Level 03: all \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Level 04: all \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Level 05: all \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Level 06: all \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Level 07: all \\192.168.10.12\chem\10airB.i\030217.b\06115.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	1604	3252	3232	5096	104607	+++++	+++++	LINR	-0.00090	0.07460		0.99641
2 1,1-Difluoroethane	0.04907	0.06383	0.05871	0.05580	0.06051	0.05847	0.06399	AVRG		0.05863		8.77337
3 Chlorodifluoromethane	246	740	2020	3964	41204	80199	+++++	LINR	0.00012	0.02798		0.99946
4 Propylene	+++++	5938	12525	24954	98681	197124	287080	LINR	0.00470	0.06927		0.99648

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	5463 +++++	9737	20944	41132	413909	810812	LINR	0.00223	0.28189		0.99963
6 Chloromethane	0.11898	0.12708	0.10813	0.10743	0.11466	0.11047					
	0.11752						AVRG		0.11490		6.08607
7 Dichlorotetrafluoroethane	0.28412	0.30889	0.27070	0.26600	0.27057	0.26389					
	0.27923						AVRG		0.27763		5.58743
8 Vinyl chloride	0.09509	0.10099	0.09950	0.09199	0.10191	0.09874					
	0.10655						AVRG		0.09925		4.75711
9 1,3-Butadiene	0.05391	0.07556	0.07312	0.07192	0.07709	0.07383					
	0.08059						AVRG		0.07229		11.89494
10 Bromomethane	0.08947	0.09822	0.08330	0.09096	0.09309	0.09088					
	0.09682						AVRG		0.09182		5.39696
11 Chloroethane	0.03819	0.05297	0.04520	0.04372	0.04546	0.04563					
	0.04831						AVRG		0.04564		9.80664

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.03522	0.04042	0.03424	0.03385	0.03683	0.03737						
	0.03928							AVRG		0.03674		6.78934
13 Vinyl Bromide	0.08975	0.10765	0.08918	0.09053	0.09716	0.09296						
	0.09853							AVRG		0.09511		6.95676
14 Isopentane	2027	3504	8126	19900	145015	281297						
	397743							LINR	0.00137	0.09936		0.99946
15 Freon 123	3166	6319	15648	16103	129273	313230						
	415076							LINR	0.00086	0.10477		0.99707
16 Trichlorofluoromethane	0.26982	0.32357	0.26730	0.26491	0.26724	0.25660						
	0.26965							AVRG		0.27416		8.11471
17 Acrolein	775	1831	4758	9510	138213	268448						
	385253							QUAD	-0.00070	0.03680	0.00028	0.99942
18 Acetone	0.18064	0.18872	0.15744	0.15292	0.14823	0.14001						
	0.14269							AVRG		0.15867		11.88329

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
19 Isopropyl Alcohol	0.15763	0.18004	0.16031	0.15685	0.16644	0.15379					
	0.15766						AVRG		0.16182		5.52630
20 1,1-Dichloroethene	0.15042	0.18079	0.15074	0.15557	0.16140	0.15494					
	0.16226						AVRG		0.15945		6.57851
21 Acrylonitrile	0.06401	0.07958	0.07178	0.06963	0.07949	0.07360					
	0.07512						AVRG		0.07332		7.53853
22 Freon 113	0.20290	0.23676	0.21541	0.21019	0.20544	0.18768					
	0.19083						AVRG		0.20703		7.93831
23 Methyl Acetate	0.24600	0.28365	0.24125	0.23673	0.24529	0.22152					
	0.21654						AVRG		0.24157		9.03208
24 Tert Butyl Alcohol (TBA)	0.20789	0.23454	0.21267	0.20927	0.21143	0.19109					
	0.18922						AVRG		0.20802		7.28573
25 Methylene chloride	0.12486	0.12863	0.11364	0.10974	0.10908	0.09990					
	0.09808						AVRG		0.11199		10.29977

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
26 Allyl Chloride	998	2156	5091	11220	140726	270021					
	360233						QUAD	-0.00095	0.04080	-0.00057	0.99984
27 Carbon Disulfide	0.17986	0.19150	0.20428	0.20601	0.23438	0.22813					
	0.23219						AVRG		0.21091		10.07488
28 trans-1,2-dichloroethene	0.07503	0.08339	0.09494	0.09061	0.09728	0.09169					
	0.09329						AVRG		0.08946		8.62620
29 Methyl Tert Butyl Ether	0.25867	0.26679	0.26248	0.25662	0.25690	0.24424					
	0.23949						AVRG		0.25503		3.82490
30 Vinyl Acetate	+++++	4581	11738	24341	385061	772513					
	1072670						QUAD	-0.00502	0.27169	0.00039	0.99985
31 1,1-Dichloroethane	0.16713	0.17331	0.17791	0.16887	0.17978	0.17421					
	0.17860						AVRG		0.17426		2.80642
33 Methyl Ethyl Ketone	413	1030	3113	6401	65846	136332					
	188259						LINR	-0.00035	0.04762		0.99995

RRF greater than laboratory minimum. No validation required.

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.15219	0.17180	0.15757	0.15809	0.16476	0.15753					
	0.15431						AVRG		0.15946		4.19713
35 Di-isopropyl Ether	0.29073	0.32953	0.30665	0.31510	0.31267	0.30686					
	0.30329						AVRG		0.30926		3.84474
36 Ethyl Acetate	0.18718	0.20821	0.20219	0.20145	0.22630	0.20681					
	0.20449						AVRG		0.20523		5.64392
37 cis-1,2-Dichloroethene	0.08790	0.09791	0.09585	0.10208	0.11359	0.10201					
	0.10033						AVRG		0.09995		7.76168
38 Ethyl Tert-Butyl Ether	0.33357	0.32421	0.30640	0.35487	0.34762	0.31600					
	0.28396						AVRG		0.32381		7.54289
39 Chloroform	0.19920	0.19789	0.20212	0.22254	0.22603	0.20669					
	0.19573						AVRG		0.20717		5.90539
40 Tetrahydrofuran	0.09352	0.11602	0.11217	0.11030	0.11359	0.11356					
	0.11599						AVRG		0.11074		7.09391

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.22737	0.25316	0.24262	0.24336	0.25641	0.24012					
	0.24303						AVRG		0.24372		3.86416
42 1,2-Dichloroethane	0.18128	0.20743	0.18724	0.17899	0.18979	0.17568					
	0.17382						AVRG		0.18489		6.21802
43 Benzene	0.31171	0.32607	0.33236	0.31269	0.33860	0.32105					
	0.31508						AVRG		0.32251		3.19963
44 Carbon tetrachloride	0.20909	0.24599	0.24225	0.23334	0.27264	0.25235					
	0.24937						AVRG		0.24358		7.96219
45 Cyclohexane	0.16443	0.16627	0.16904	0.16158	0.16763	0.15400					
	0.14717						AVRG		0.16145		4.97615
46 Tert Amyl Methyl Ether	18270	20967	35082	56548	445708	890854					
	1221003						LINR	0.00956	0.30539		0.99998
48 2,2,4-Trimethylpentane	0.50958	0.53058	0.50192	0.51218	0.51793	0.47603					
	0.44850						AVRG		0.49953		5.61871

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
49 Heptane	0.16777	0.18321	0.17622	0.17889	0.18730	0.18280						
	0.18526						AVRG		0.18021		3.68106	
50 1,2-Dichloropropane	0.10497	0.12424	0.11629	0.11669	0.12070	0.11726						
	0.11759						AVRG		0.11682		5.08339	
51 Trichloroethene	0.15582	0.17814	0.16982	0.16813	0.17159	0.16617						
	0.16646						AVRG		0.16802		4.01609	
52 Methyl methacrylate	0.09772	0.11462	0.09998	0.10330	0.11687	0.11624						
	0.11625						AVRG		0.10928		7.82967	
53 1,4-Dioxane	+++++	0.07571	0.07103	0.06920	0.07879	0.07867						
	0.07869						AVRG		0.07535		5.65122	<-
54 Bromodichloromethane	0.21158	0.24802	0.22534	0.22917	0.25791	0.24572						
	0.24880						AVRG		0.23808		6.87954	
55 Methylcyclohexane	880	2326	5684	12229	132902	266242						
	381479						QUAD	0.00004	0.08838	0.00263	0.99977	

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
						30.0000 Level 7					
56 Methyl Isobutyl Ketone	0.22195	0.26034	0.23797	0.24491	0.26557	0.24586					
	0.24523						AVRG		0.24597		5.82913
57 cis-1,3-Dichloropropene	1869	4624	11439	23875	285919	572916					
	802416						LINR	-0.00192	0.20261		0.99982
58 trans-1,3-Dichloropropene	1570	3360	9313	20281	268282	540240					
	767727						QUAD	-0.00158	0.18207	0.00413	0.99982
60 1,1,2-Trichloroethane	0.13072	0.14804	0.13627	0.12746	0.13595	0.12970					
	0.13071						AVRG		0.13412		5.17316
61 Toluene	0.38916	0.44540	0.40158	0.39773	0.40896	0.39760					
	0.38675						AVRG		0.40388		4.89194
62 Methyl Butyl Ketone	0.28663	0.29631	0.30585	0.31073	0.36206	0.34067					
	0.30862						AVRG		0.31584		8.34206
63 n-Octane	0.29207	0.33524	0.34580	0.35107	0.38006	0.35999					
	0.33009						AVRG		0.34204		8.05009

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	2474 +++++	5941	14525	31027	385835	768082		LINR	-0.00176	0.39596		0.99963
65 1,2-Dibromoethane	0.29331	0.32167	0.31961	0.32276	0.34926	0.33384		AVRG		0.32276		5.24361
	0.31887											
66 Tetrachloroethene	0.34391	0.39141	0.35716	0.34645	0.34946	0.33288		AVRG		0.34724		7.15405
	0.30942											
68 Chlorobenzene	0.50757	0.49302	0.50324	0.47975	0.51011	0.49597		AVRG		0.49598		2.39875
	0.48219											
69 Ethyl Benzene	0.63105	0.69350	0.75373	0.75767	0.80239	0.76885		AVRG		0.73550		7.67448
	0.74134											
70 m&p-Xylene	0.54709	0.56056	0.58709	0.58750	0.63367	0.58090		AVRG		0.57729		5.32940
	0.54419											
71 n-Nonane	0.23991	0.25232	0.30355	0.32308	0.35571	0.32001		AVRG		0.29775		13.71498
	0.28968											

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
72 Bromoform	1731 / 1008290	3665	10681	23365	367770	705920	QUAD	-0.00691	0.40720	-0.02023	0.99982
73 Styrene	3030 / 1314898	6483	19327	41273	465333	918818	QUAD	-0.00399	0.51302	-0.02071	0.99999
74 o-Xylene	0.54284 / 0.58304	0.55619	0.58404	0.60209	0.63683	0.60612	AVRG		0.58731		5.38409
75 1,1,2,2-Tetrachloroethane	0.28133 / 0.34089	0.29909	0.30949	0.31566	0.36746	0.35145	AVRG		0.32362		9.48066
76 Isopropylbenzene	0.86950 / 0.78729	0.84572	0.82595	0.80512	0.86425	0.82068	AVRG		0.83122		3.64806
77 N-Propylbenzene	5321 / +++++	12256	35990	77311	929423	1826015	LINR	-0.00241	0.94285		0.99939
78 4-Ethyltoluene	4421 / 2322755	10605	30251	69266	815307	1614385	QUAD	-0.00900	0.89638	-0.03311	0.99998

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	4235	9860	28097	61066	689551	1370583					
	+++++						LINR	-0.00130	0.70575		0.99966
80 n-Decane	1450	3858	11603	27313	350331	729038					
	1038909						LINR	-0.00620	0.26167		0.99940
81 Tert-Butyl Benzene	0.56680	0.61270	0.67584	0.68138	0.74872	0.70347					
	0.65929						AVRG		0.66403		8.96869
82 1,2,4-Trimethylbenzene	0.49112	0.54574	0.57970	0.62431	0.68706	0.63694					
	0.59336						AVRG		0.59403		10.76645
83 1,3-Dichlorobenzene	2849	6190	16619	35362	423299	815126					
	+++++						LINR	0.00042	0.42172		0.99883
84 Sec- Butylbenzene	0.69229	0.74745	0.81958	0.87314	0.98355	0.88644					
	0.82157						AVRG		0.83200		11.46062
86 Benzyl Chloride	+++++	3597	9078	22499	427013	897595					
	1343950						QUAD	-0.01363	0.46373	0.00022	0.99991

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
87 1,4-Dichlorobenzene	0.34312	0.35215	0.36805	0.38523	0.44083	0.42325					
	0.41139						AVRG		0.38915		9.54420
88 p-Isopropyltoluene	4750	11000	31230	67948	793111	1535893					
	+++++						LINR	0.00032	0.79402		0.99902
89 1,2,3-Trimethylbenzene	0.49291	0.51053	0.57370	0.59567	0.68477	0.63533					
	0.61245						AVRG		0.58648		11.54196
90 1,2-Dichlorobenzene	2466	5537	14338	32463	395633	776749					
	1131959						QUAD	-0.00389	0.42770	-0.01328	0.99994
91 N-Butylbenzene	2805	7061	20942	47311	612616	1214291					
	1755538						LINR	0.00139	0.60841		0.99917
92 1,2-Dibromo-3-Chloropropane	387	957	3096	7071	154681	319932					
	467876						LINR	-0.00318	0.16248		0.99959
93 1,2,4-Trichlorobenzene	+++++	513	2447	7389	156379	358428					
	553071						QUAD	-0.00633	0.16753	0.00809	0.99974

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	645	1944	7018	19022	369664	797177					
	1218782						LINR	-0.01424	0.41809		0.99958
95 Hexachlorobutadiene	0.13792	0.16150	0.17377	0.18747	0.19308	0.18620					
	0.17473						AVRG		0.17353		10.91245
$ 32 Hexane-d14(S)	0.31889	0.30929	0.31483	0.31375	0.31188	0.32281					
	0.33562						AVRG		0.31815		2.79904
$ 59 Toluene-d8 (S)	0.86049	0.94509	0.86662	0.86999	0.88227	0.89817					
	0.94256						AVRG		0.89503		3.96718
$ 85 1,4-dichlorobenzene-d4 (S)	0.49310	0.47520	0.50594	0.53279	0.61007	0.62504					
	0.61393						AVRG		0.55087		11.57446

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Average %RSD Results.	
Calculated Average %RSD =	6.97496
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06201BFB.D BFB Injection Date: 03/03/2017
Instrument ID: 10AIRB BFB Injection Time: 07:09
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.79	
75	30.00 - 66.00% of mass 95	48.06	
96	5.00 - 9.00% of mass 95	6.55	
173	Less than 2.00% of mass 174	0.65	(0.70)
174	50.00 - 120.00% of mass 95	93.22	
175	4.00 - 9.00% of mass 174	6.75	(7.24)
176	93.00 - 101.00% of mass 174	89.65	(96.17)
177	5.00 - 9.00% of mass 176	5.82	(6.49)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06202.D	03/03/2017	07:37
2	LCS for HBN 462461 [AIR/27830]	2528756	06202_27830.D	03/03/2017	07:37
3	BLANK for HBN 462461 [AIR/2783	2528755	06204_27830.D	03/03/2017	08:54
4	CERT	CERT	06205.D	03/03/2017	09:25
5	VP-104_5_20170221	10379929001	06217.D	03/03/2017	15:49
6	VP-104_5_20170221(2522469DUP)	2529325-DUP	06218.D	03/03/2017	16:20
7	VP-104_10_20170221	10379929002	06219.D	03/03/2017	16:52
8	VP-104_19_20170221	10379929003	06221.D	03/03/2017	17:55
9	VP-104_30_20170221	10379929004	06222.D	03/03/2017	18:26
10	VP-104_40_20170221	10379929005	06223.D	03/03/2017	18:58
11	VP-104_50_20170221	10379929006	06224.D	03/03/2017	19:29
12	VP-104_62_20170221	10379929007	06225.D	03/03/2017	20:01

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-MAR-2017 07:37
Lab File ID: 06202.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	1 Chloropentafluoroethane	10.00000	11.54862	0.08525	0.010	15.48619	30.00000	Line	
	2 1,1-Difluoroethane	0.05863	0.06492	0.06492	0.010	10.74066	30.00000	Aver	
	3 Chlorodifluoromethane	10.00000	10.74138	0.03017	0.010	7.41376	30.00000	Line	
	4 Propylene	10.00000	10.17234	0.07516	0.010	1.72344	30.00000	Line	
	5 Dichlorodifluoromethane	10.00000	10.90508	0.30964	0.010	9.05078	30.00000	Line	
	6 Chloromethane	0.11490	0.12145	0.12145	0.010	5.70047	30.00000	Aver	
	7 Dichlorotetrafluoroethane	0.27763	0.28941	0.28941	0.010	4.24564	30.00000	Aver	
	8 Vinyl chloride	0.09925	0.10484	0.10484	0.010	5.63351	30.00000	Aver	
	9 1,3-Butadiene	0.07229	0.07991	0.07991	0.010	10.55240	30.00000	Aver	
	10 Bromomethane	0.09182	0.09646	0.09646	0.010	5.05689	30.00000	Aver	
	11 Chloroethane	0.04564	0.04778	0.04778	0.010	4.68217	30.00000	Aver	
	12 Ethanol	0.03674	0.03981	0.03981	0.005	8.35455	30.00000	Aver	
	13 Vinyl Bromide	0.09511	0.10102	0.10102	0.010	6.21098	30.00000	Aver	
	14 Isopentane	10.00000	10.64107	0.10709	0.010	6.41072	30.00000	Line	
	15 Freon 123	10.00000	9.06287	0.09581	0.010	-9.37133	30.00000	Line	
	16 Trichlorofluoromethane	0.27416	0.27858	0.27858	0.010	1.61278	30.00000	Aver	
	17 Acrolein	25.00000	26.84183	0.04005	0.010	7.36733	30.00000	Quad	
	18 Acetone	0.15867	0.15211	0.15211	0.010	-4.13339	30.00000	Aver	
	19 Isopropyl Alcohol	0.16182	0.17542	0.17542	0.010	8.40504	30.00000	Aver	
	20 1,1-Dichloroethene	0.15945	0.16770	0.16770	0.010	5.17530	30.00000	Aver	
	21 Acrylonitrile	0.07332	0.08129	0.08129	0.010	10.88379	30.00000	Aver	
	22 Freon 113	0.20703	0.21271	0.21271	0.010	2.74338	30.00000	Aver	
	23 Methyl Acetate	0.24157	0.25239	0.25239	0.010	4.47749	30.00000	Aver	
	24 Tert Butyl Alcohol (TBA)	0.20802	0.22768	0.22768	0.010	9.45181	30.00000	Aver	
	25 Methylene chloride	0.11199	0.11212	0.11212	0.010	0.12000	30.00000	Aver	
	26 Allyl Chloride	25.00000	26.81978	0.04177	0.010	7.27911	30.00000	Quad	
	27 Carbon Disulfide	0.21091	0.24366	0.24366	0.010	15.52856	30.00000	Aver	
	28 trans-1,2-dichloroethene	0.08946	0.09842	0.09842	0.010	10.01242	30.00000	Aver	
	29 Methyl Tert Butyl Ether	0.25503	0.27016	0.27016	0.010	5.93461	30.00000	Aver	
	30 Vinyl Acetate	10.00000	10.51618	0.28112	0.010	5.16177	30.00000	Quad	
	31 1,1-Dichloroethane	0.17426	0.18343	0.18343	0.010	5.26395	30.00000	Aver	
$	32 Hexane-d14(S)	0.31815	0.31702	0.31702	0.010	-0.35511	30.00000	Aver	
	33 Methyl Ethyl Ketone	10.00000	10.15576	0.04802	0.010	1.55758	30.00000	Line	
	34 n-Hexane	0.15946	0.16762	0.16762	0.010	5.11465	30.00000	Aver	(M)
	35 Di-isopropyl Ether	0.30926	0.32860	0.32860	0.010	6.25351	30.00000	Aver	
	36 Ethyl Acetate	0.20523	0.22041	0.22041	0.010	7.39292	30.00000	Aver	
	37 cis-1,2-Dichloroethene	0.09995	0.10782	0.10782	0.010	7.86476	30.00000	Aver	
	38 Ethyl Tert-Butyl Ether	0.32381	0.35513	0.35513	0.010	9.67241	30.00000	Aver	
	39 Chloroform	0.20717	0.22408	0.22408	0.010	8.16464	30.00000	Aver	
	40 Tetrahydrofuran	0.11074	0.11873	0.11873	0.010	7.22372	30.00000	Aver	
	41 1,1,1-Trichloroethane	0.24372	0.26244	0.26244	0.010	7.68034	30.00000	Aver	
	42 1,2-Dichloroethane	0.18489	0.19405	0.19405	0.010	4.95312	30.00000	Aver	

RRF greater than laboratory minimum. No validation required.

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-MAR-2017 07:37
Lab File ID: 06202.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	43 Benzene	0.32251	0.34901	0.34901	0.010	8.21607	30.00000	Aver	
	44 Carbon tetrachloride	0.24358	0.27636	0.27636	0.010	13.45773	30.00000	Aver	
	45 Cyclohexane	0.16145	0.16942	0.16942	0.010	4.93912	30.00000	Aver	
	46 Tert Amyl Methyl Ether	10.00000	10.80968	0.33968	0.010	8.09675	30.00000	Line	
	48 2,2,4-Trimethylpentane	0.49953	0.54220	0.54220	0.010	8.54137	30.00000	Aver	
	49 Heptane	0.18021	0.19586	0.19586	0.010	8.68818	30.00000	Aver	
	50 1,2-Dichloropropane	0.11682	0.12873	0.12873	0.010	10.19363	30.00000	Aver	
	51 Trichloroethene	0.16802	0.17989	0.17989	0.010	7.06587	30.00000	Aver	
	52 Methyl methacrylate	0.10928	0.12310	0.12310	0.010	12.64721	30.00000	Aver	
	53 1,4-Dioxane	0.07535	0.08562	0.08562	0.010	13.63391	30.00000	Aver	
	54 Bromodichloromethane	0.23808	0.26546	0.26546	0.010	11.50203	30.00000	Aver	
	55 Methylcyclohexane	10.00000	10.67362	0.09737	0.010	6.73620	30.00000	Quad	
	56 Methyl Isobutyl Ketone	0.24597	0.27485	0.27485	0.010	11.74106	30.00000	Aver	
	57 cis-1,3-Dichloropropene	10.00000	10.61103	0.21307	0.010	6.11032	30.00000	Line	
	58 trans-1,3-Dichloropropene	10.00000	10.75950	0.19910	0.010	7.59502	30.00000	Quad	
$	59 Toluene-d8 (S)	0.89503	0.89760	0.89760	0.010	0.28745	30.00000	Aver	
	60 1,1,2-Trichloroethane	0.13412	0.14419	0.14419	0.010	7.50861	30.00000	Aver	
	61 Toluene	0.40388	0.43617	0.43617	0.010	7.99399	30.00000	Aver	
	62 Methyl Butyl Ketone	0.31584	0.37292	0.37292	0.010	18.07355	30.00000	Aver	
	63 n-Octane	0.34204	0.39047	0.39047	0.010	14.15726	30.00000	Aver	
	64 Dibromochloromethane	10.00000	10.70123	0.42196	0.010	7.01228	30.00000	Line	
	65 1,2-Dibromoethane	0.32276	0.35780	0.35780	0.010	10.85656	30.00000	Aver	
	66 Tetrachloroethene	0.34724	0.36087	0.36087	0.010	3.92454	30.00000	Aver	
	68 Chlorobenzene	0.49598	0.53619	0.53619	0.010	8.10633	30.00000	Aver	
	69 Ethyl Benzene	0.73550	0.83896	0.83896	0.010	14.06610	30.00000	Aver	
	70 m&p-Xylene	0.57729	0.64545	0.64545	0.010	11.80850	30.00000	Aver	
	71 n-Nonane	0.29775	0.36480	0.36480	0.010	22.51874	30.00000	Aver	
	72 Bromoform	10.00000	10.50451	0.39852	0.010	5.04512	30.00000	Quad	
	73 Styrene	10.00000	10.38444	0.50642	0.010	3.84443	30.00000	Quad	
	74 o-Xylene	0.58731	0.66176	0.66176	0.010	12.67765	30.00000	Aver	
	75 1,1,2,2-Tetrachloroethane	0.32362	0.38323	0.38323	0.010	18.41972	30.00000	Aver	
	76 Isopropylbenzene	0.83122	0.90730	0.90730	0.010	9.15317	30.00000	Aver	
	77 N-Propylbenzene	10.00000	10.75312	1.01144	0.010	7.53119	30.00000	Line	
	78 4-Ethyltoluene	10.00000	10.45537	0.89200	0.010	4.55367	30.00000	Quad	
	79 1,3,5-Trimethylbenzene	10.00000	10.83847	0.76363	0.010	8.38468	30.00000	Line	
	80 n-Decane	10.00000	10.44582	0.26714	0.010	4.45817	30.00000	Line	
	81 Tert-Butyl Benzene	0.66403	0.77879	0.77879	0.010	17.28319	30.00000	Aver	
	82 1,2,4-Trimethylbenzene	0.59403	0.71562	0.71562	0.010	20.46765	30.00000	Aver	
	83 1,3-Dichlorobenzene	10.00000	10.65839	0.44991	0.010	6.58386	30.00000	Line	
	84 Sec- Butylbenzene	0.83200	0.99373	0.99373	0.010	19.43897	30.00000	Aver	
$	85 1,4-dichlorobenzene-d4 (S)	0.55087	0.60501	0.60501	0.010	9.82925	30.00000	Aver	(M)
	86 Benzyl Chloride	10.00000	10.59681	0.47801	0.010	5.96808	30.00000	Quad	

Data File: \\192.168.10.12\chem\10airB.i\030317.b\06202.D
Report Date: 03-Mar-2017 07:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-MAR-2017 07:37
Lab File ID: 06202.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030317.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.45056	0.45056	0.010	15.78081	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.80557	0.85830	0.010	8.05571	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.69020	0.69020	0.010	17.68487	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.22602	0.41958	0.010	2.26017	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.73701	0.65463	0.010	7.37013	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.21730	0.16283	0.010	2.17303	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.04763	0.15187	0.010	-9.52372	30.00000	Quad	
94 Naphthalene	10.00000	8.87571	0.35684	0.010	-11.24294	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.17009	0.17009	0.010	-1.97718	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 8.33981
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929
Lab File ID: 06301BFB.D BFB Injection Date: 03/04/2017
Instrument ID: 10AIRB BFB Injection Time: 06:28
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.21	
75	30.00 - 66.00% of mass 95	46.92	
96	5.00 - 9.00% of mass 95	6.41	
173	Less than 2.00% of mass 174	0.94	(1.01)
174	50.00 - 120.00% of mass 95	93.87	
175	4.00 - 9.00% of mass 174	6.88	(7.33)
176	93.00 - 101.00% of mass 174	91.50	(97.48)
177	5.00 - 9.00% of mass 176	5.47	(5.98)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 462564 [AIR/27836]	2529400	06302_27836.D	03/04/2017	06:56
2	CCV	CCV	06302.D	03/04/2017	06:56
3	BLANK for HBN 462564 [AIR/2783	2529399	06312_27836.D	03/04/2017	12:20
4	VP-104_73_20170221	10379929008	06313.D	03/04/2017	12:51
5	FPM-20_5_20170221	10379929009	06314.D	03/04/2017	13:23
6	FPM-20_9.4_20170221	10379929010	06315.D	03/04/2017	13:54
7	VP-8_5_20170221	10379929011	06317.D	03/04/2017	14:53
8	VP-8_10_20170221	10379929012	06318.D	03/04/2017	15:25
9	VP-8_10_20170221(2522486DUP)	2529705-DUP	06319.D	03/04/2017	15:56
10	VP-8_20_20170221	10379929013	06320.D	03/04/2017	16:28
11	VP-8D_53.5_20170221	10379929014	06322.D	03/04/2017	17:34
12	VP-8D_62.5_20170221	10379929015	06323.D	03/04/2017	18:05
13	VP-8D_72.5_20170221	10379929016	06324.D	03/04/2017	18:36
14	VP-8D_62.5_20170221DUP	10379929017	06325.D	03/04/2017	19:08
15	FPM-20_5_20170221DUP	10379929018	06326.D	03/04/2017	19:39

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	1 Chloropentafluoroethane	10.00000	7.05429	0.05173	0.010	-29.45712	30.00000	Line	
	2 1,1-Difluoroethane	0.05863	0.05567	0.05567	0.010	-5.04712	30.00000	Aver	
	3 Chlorodifluoromethane	10.00000	9.76930	0.02745	0.010	-2.30697	30.00000	Line	
	4 Propylene	10.00000	8.76125	0.06538	0.010	-12.38750	30.00000	Line	
	5 Dichlorodifluoromethane	10.00000	9.63088	0.27372	0.010	-3.69123	30.00000	Line	
	6 Chloromethane	0.11490	0.10764	0.10764	0.010	-6.31741	30.00000	Aver	
	7 Dichlorotetrafluoroethane	0.27763	0.25037	0.25037	0.010	-9.81846	30.00000	Aver	
	8 Vinyl chloride	0.09925	0.09587	0.09587	0.010	-3.40987	30.00000	Aver	
	9 1,3-Butadiene	0.07229	0.07193	0.07193	0.010	-0.49391	30.00000	Aver	
	10 Bromomethane	0.09182	0.08683	0.08683	0.010	-5.43471	30.00000	Aver	
	11 Chloroethane	0.04564	0.04299	0.04299	0.010	-5.80737	30.00000	Aver	
	12 Ethanol	0.03674	0.03225	0.03225	0.005	-12.24301	30.00000	Aver	
	13 Vinyl Bromide	0.09511	0.09076	0.09076	0.010	-4.57065	30.00000	Aver	
	14 Isopentane	10.00000	9.18981	0.09267	0.010	-8.10186	30.00000	Line	
	15 Freon 123	10.00000	8.64887	0.09147	0.010	-13.51129	30.00000	Line	
	16 Trichlorofluoromethane	0.27416	0.24677	0.24677	0.010	-9.98958	30.00000	Aver	
	17 Acrolein	25.00000	23.92617	0.03559	0.010	-4.29532	30.00000	Quad	
	18 Acetone	0.15867	0.13861	0.13861	0.010	-12.63812	30.00000	Aver	
	19 Isopropyl Alcohol	0.16182	0.14651	0.14651	0.010	-9.46195	30.00000	Aver	
	20 1,1-Dichloroethene	0.15945	0.15047	0.15047	0.010	-5.62958	30.00000	Aver	
	21 Acrylonitrile	0.07332	0.07348	0.07348	0.010	0.21860	30.00000	Aver	
	22 Freon 113	0.20703	0.18759	0.18759	0.010	-9.39054	30.00000	Aver	
	23 Methyl Acetate	0.24157	0.22621	0.22621	0.010	-6.35846	30.00000	Aver	
	24 Tert Butyl Alcohol (TBA)	0.20802	0.19252	0.19252	0.010	-7.45164	30.00000	Aver	
	25 Methylene chloride	0.11199	0.10193	0.10193	0.010	-8.97670	30.00000	Aver	
	26 Allyl Chloride	25.00000	23.90743	0.03735	0.010	-4.37027	30.00000	Quad	
	27 Carbon Disulfide	0.21091	0.21909	0.21909	0.010	3.88191	30.00000	Aver	
	28 trans-1,2-dichloroethene	0.08946	0.09051	0.09051	0.010	1.16931	30.00000	Aver	
	29 Methyl Tert Butyl Ether	0.25503	0.23748	0.23748	0.010	-6.87894	30.00000	Aver	
	30 Vinyl Acetate	10.00000	9.48893	0.25313	0.010	-5.11068	30.00000	Quad	
	31 1,1-Dichloroethane	0.17426	0.16835	0.16835	0.010	-3.38901	30.00000	Aver	
$	32 Hexane-d14(S)	0.31815	0.31891	0.31891	0.010	0.23647	30.00000	Aver	
	33 Methyl Ethyl Ketone	10.00000	9.06476	0.04282	0.010	-9.35239	30.00000	Line	
	34 n-Hexane	0.15946	0.14559	0.14559	0.010	-8.69964	30.00000	Aver	(M)
	35 Di-isopropyl Ether	0.30926	0.29225	0.29225	0.010	-5.50078	30.00000	Aver	
	36 Ethyl Acetate	0.20523	0.19272	0.19272	0.010	-6.09667	30.00000	Aver	
	37 cis-1,2-Dichloroethene	0.09995	0.09983	0.09983	0.010	-0.12823	30.00000	Aver	
	38 Ethyl Tert-Butyl Ether	0.32381	0.32027	0.32027	0.010	-1.09056	30.00000	Aver	
	39 Chloroform	0.20717	0.21285	0.21285	0.010	2.74026	30.00000	Aver	
	40 Tetrahydrofuran	0.11074	0.10148	0.10148	0.010	-8.35586	30.00000	Aver	
	41 1,1,1-Trichloroethane	0.24372	0.24155	0.24155	0.010	-0.89106	30.00000	Aver	
	42 1,2-Dichloroethane	0.18489	0.17705	0.17705	0.010	-4.23784	30.00000	Aver	

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

			CCAL	MIN		MAX	CURVE	QC
COMPOUND	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	TYPE	FLAGS
43 Benzene	0.32251	0.31269	0.31269	0.010	-3.04410	30.00000	Aver	
44 Carbon tetrachloride	0.24358	0.25634	0.25634	0.010	5.24060	30.00000	Aver	
45 Cyclohexane	0.16145	0.15446	0.15446	0.010	-4.32820	30.00000	Aver	
46 Tert Amyl Methyl Ether	10.00000	8.98553	0.28397	0.010	-10.14467	30.00000	Line	
48 2,2,4-Trimethylpentane	0.49953	0.48061	0.48061	0.010	-3.78821	30.00000	Aver	
49 Heptane	0.18021	0.17226	0.17226	0.010	-4.40830	30.00000	Aver	
50 1,2-Dichloropropane	0.11682	0.11156	0.11156	0.010	-4.50083	30.00000	Aver	
51 Trichloroethene	0.16802	0.15911	0.15911	0.010	-5.30264	30.00000	Aver	
52 Methyl methacrylate	0.10928	0.10650	0.10650	0.010	-2.54268	30.00000	Aver	
53 1,4-Dioxane	0.07535	0.07206	0.07206	0.010	-4.36020	30.00000	Aver	
54 Bromodichloromethane	0.23808	0.23859	0.23859	0.010	0.21720	30.00000	Aver	
55 Methylcyclohexane	10.00000	9.49897	0.08637	0.010	-5.01028	30.00000	Quad	
56 Methyl Isobutyl Ketone	0.24597	0.23410	0.23410	0.010	-4.82607	30.00000	Aver	
57 cis-1,3-Dichloropropene	10.00000	9.28812	0.18627	0.010	-7.11882	30.00000	Line	
58 trans-1,3-Dichloropropene	10.00000	9.53732	0.17582	0.010	-4.62676	30.00000	Quad	
$ 59 Toluene-d8 (S)	0.89503	0.88073	0.88073	0.010	-1.59730	30.00000	Aver	
60 1,1,2-Trichloroethane	0.13412	0.12485	0.12485	0.010	-6.91000	30.00000	Aver	
61 Toluene	0.40388	0.38120	0.38120	0.010	-5.61726	30.00000	Aver	
62 Methyl Butyl Ketone	0.31584	0.33934	0.33934	0.010	7.44255	30.00000	Aver	
63 n-Octane	0.34204	0.33040	0.33040	0.010	-3.40392	30.00000	Aver	
64 Dibromochloromethane	10.00000	9.43571	0.37185	0.010	-5.64294	30.00000	Line	
65 1,2-Dibromoethane	0.32276	0.31989	0.31989	0.010	-0.88819	30.00000	Aver	
66 Tetrachloroethene	0.34724	0.32219	0.32219	0.010	-7.21468	30.00000	Aver	
68 Chlorobenzene	0.49598	0.46419	0.46419	0.010	-6.40956	30.00000	Aver	
69 Ethyl Benzene	0.73550	0.72193	0.72193	0.010	-1.84564	30.00000	Aver	
70 m&p-Xylene	0.57729	0.56732	0.56732	0.010	-1.72668	30.00000	Aver	
71 n-Nonane	0.29775	0.33880	0.33880	0.010	13.78613	30.00000	Aver	
72 Bromoform	10.00000	9.47972	0.36093	0.010	-5.20276	30.00000	Quad	
73 Styrene	10.00000	9.35381	0.45776	0.010	-6.46192	30.00000	Quad	
74 o-Xylene	0.58731	0.57578	0.57578	0.010	-1.96298	30.00000	Aver	
75 1,1,2,2-Tetrachloroethane	0.32362	0.35360	0.35360	0.010	9.26358	30.00000	Aver	
76 Isopropylbenzene	0.83122	0.81838	0.81838	0.010	-1.54387	30.00000	Aver	
77 N-Propylbenzene	10.00000	10.09018	0.94894	0.010	0.90184	30.00000	Line	
78 4-Ethyltoluene	10.00000	9.85625	0.84233	0.010	-1.43752	30.00000	Quad	
79 1,3,5-Trimethylbenzene	10.00000	10.15160	0.71515	0.010	1.51597	30.00000	Line	
80 n-Decane	10.00000	9.83266	0.25109	0.010	-1.67342	30.00000	Line	
81 Tert-Butyl Benzene	0.66403	0.73826	0.73826	0.010	11.17866	30.00000	Aver	
82 1,2,4-Trimethylbenzene	0.59403	0.67259	0.67259	0.010	13.22483	30.00000	Aver	
83 1,3-Dichlorobenzene	10.00000	10.25865	0.43306	0.010	2.58654	30.00000	Line	
84 Sec- Butylbenzene	0.83200	0.93632	0.93632	0.010	12.53775	30.00000	Aver	
$ 85 1,4-dichlorobenzene-d4 (S)	0.55087	0.63106	0.63106	0.010	14.55769	30.00000	Aver	(M)
86 Benzyl Chloride	10.00000	9.94028	0.44754	0.010	-0.59720	30.00000	Quad	(M)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.43090	0.43090	0.010	10.72958	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.08742	0.80127	0.010	0.87418	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.65116	0.65116	0.010	11.02901	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	9.77420	0.40146	0.010	-2.25802	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.38389	0.63315	0.010	3.83887	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.32083	0.16451	0.010	3.20830	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.56191	0.16126	0.010	-4.38095	30.00000	Quad	
94 Naphthalene	10.00000	9.26310	0.37304	0.010	-7.36904	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.16834	0.16834	0.010	-2.98910	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 5.72480
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/05/2017

Lab File ID (Standard): 06405.D Time Analyzed: 10:57

Instrument ID: 10AIR7 Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
07	24 HOUR STANDARD	721634	4.504	477369	7.311
07	UPPER LIMIT 1010288	~~1443268~~	5.004	668316 ~~954738~~	7.811
07	LOWER LIMIT 432980	~~360817~~	4.004	286421 ~~238684~~	6.811
07	EPA SAMPLE NO.				
07	VP-104_50_20170221	724530	4.498	456121	7.305
07	VP-104_62_20170221	717049	4.501	461020	7.308
07	VP-104_73_20170221	611505	4.498	379949	7.305
07	VP-8D_62.5_20170221DUP	603896	4.501	373279	7.308
07	VP-8D_72.5_20170221	597566	4.497	378473	7.304
07	VP-8D_62.5_20170221	605858	4.504	384824	7.308
07	VP-8D_53.5_20170221	597970	4.494	378077	7.305

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/03/2017

Lab File ID (Standard): 06202.D Time Analyzed: 07:37

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
09	24 HOUR STANDARD	1420913	5.610	965665	8.645
09	UPPER LIMIT 1989278	~~2841826~~	6.110	1351931 ~~1931330~~	9.145
09	LOWER LIMIT 852548	~~710456~~	5.110	579399 ~~482832~~	8.145
09	EPA SAMPLE NO.				
09	LCS for HBN 462461 [AIR/27830]	1420913	5.610	965665	8.645
09	BLANK for HBN 462461 [AIR/2783	1440039	5.597	943095	8.639
09	VP-104_5_20170221	1311746	5.594	822501	8.639
09	VP-104_5_20170221(2522469DUP)	1187126	5.594	826227	8.636
09	VP-104_10_20170221	1339650	5.597	871754	8.639
09	VP-104_19_20170221	1264374	5.601	843136	8.639
09	VP-104_30_20170221	1203229	5.604	788753	8.639
09	VP-104_40_20170221	1206720	5.604	830964	8.639
09	VP-104_62_20170221	1218911	5.604	844590	8.639

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379929

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/04/2017

Lab File ID (Standard): 06302.D Time Analyzed: 06:56

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
12	24 HOUR STANDARD	1504620	5.613	1015806	8.645
12	UPPER LIMIT 2106468	~~3009240~~	6.113	1422128 ~~2031612~~	9.145
12	LOWER LIMIT 902772	~~752310~~	5.113	609484 ~~507903~~	8.145
12	EPA SAMPLE NO.				
12	LCS for HBN 462564 [AIR/27836]	1504620	5.613	1015806	8.645
12	BLANK for HBN 462564 [AIR/2783	1372533	5.600	883257	8.639
12	VP-104_73_20170221	1297074	5.610	842729	8.645
12	FPM-20_5_20170221	1149910	5.600	780258	8.639
12	FPM-20_9.4_20170221	1286952	5.597	839829	8.639
12	VP-8_5_20170221	1246226	5.600	811933	8.639
12	VP-8_10_20170221	1314267	5.600	848214	8.639
12	VP-8_10_20170221(2522486DUP)	1250767	5.594	817123	8.639
12	VP-8_20_20170221	1219271	5.597	809603	8.639
12	VP-8D_53.5_20170221	1190438	5.629	796314	8.649
12	VP-8D_62.5_20170221DUP	1293727	5.620	845977	8.645
12	FPM-20_5_20170221DUP	1225511	5.601	812001	8.639

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

VOA Calibration Calculations:

Initial Calibration 4/2/2017
Instrument 10airB

Chloromethane

Analyte Concentration	Analyte Response	Internal Standard Response	Internal Standard Amount	RRF	Reported RRF
0.1	1673	1406108	10	0.1190	0.11898
0.2	3263	1283793	10	0.1271	0.12708
0.5	7549	1396320	10	0.1081	0.10813
1	15341	1428064	10	0.1074	0.10743
10	162140	1414114	10	0.1147	0.11466
20	318845	1443091	10	0.1105	0.11047
30	464037	1316191	10	0.1175	0.11752
			Average	0.1149	0.1149
			Standard Deviation	0.0070	
			RSD	0.0609	
			%RSD	6.0861	6.1

Internal standard for chloromethane is 1,4-difluorobenzene

Continuing Calibration 03/3/2017@ 7:37
Instrument 10airB

Chloromethane

Analyte Concentration	Analyte Response	Internal Standard Response	Internal Standard Amount	RRF	%D	Reported RRF	Reported %D
10	172563	1420913	10	0.1214	5.5442714	0.12145	5.70047

LMC - GREAT NECK
SDG 10379929

SAMPLE IDENTIFICATION	VP-104_19_20170221		
COMPOUND	TRICHLOROETHENE	MW=	131.388
		GAS CONSTANT =	24.04
COMPOUND AREA	124362		
INTERNAL STANDARD AMOUNT (ppbv)	10		
CALIBRATION VOLUME (ppbv)	200		
DILUTION FACTOR	1.75		
INTERNAL STANDARD AREA	1264374		
AVERAGE RRF	0.16802		
SAMPLE VOLUME (ppbv)	200		
	10.2 ppbv		56
	56 µg/m³		

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 13, 2017

Dallas Mellott
Tetra Tech
234 Mall Boulevard
King Of Prussia, PA 19406

RE: Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Dear Dallas Mellott:
Enclosed are the analytical results for sample(s) received by the laboratory on February 25, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Jon Byk, Tetra Tech
Priscilla Merta, Tetra Tech
Joseph Samchuck, Tetra Tech

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Date: March 13, 2017

VP-NYSDEC-5_5_20170223 (Lab ID: 10380193001)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-NYSDEC-5_10_20170223 (Lab ID: 10380193002)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-NYSDEC-5_20_20170223 (Lab ID: 10380193003)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-NYSDEC-5_30_20170223 (Lab ID: 10380193004)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-NYSDEC-5_40_20170223 (Lab ID: 10380193005)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-NYSDEC-5_50_20170223 (Lab ID: 10380193006)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_10_20170223 (Lab ID: 10380193007)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_20_20170223 (Lab ID: 10380193008)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_30_20170223 (Lab ID: 10380193009)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_40_20170223 (Lab ID: 10380193010)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_50_20170223 (Lab ID: 10380193011)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_60_20170223 (Lab ID: 10380193012)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-105_5_20170223 (Lab ID: 10380193013)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-105_10_20170223 (Lab ID: 10380193014)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-105_20_20170223 (Lab ID: 10380193015)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-105_50_20170223 (Lab ID: 10380193016)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-105_60_20170223 (Lab ID: 10380193017)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Date: March 13, 2017

VP-105_72_20170223 (Lab ID: 10380193018)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_60_20170223DUP (Lab ID: 10380193019)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

General Information:
19 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 462594

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- DUP (Lab ID: 2530069)
  - Chloropentafluoroethane
- LCS (Lab ID: 2529704)
  - Chloropentafluoroethane
- VP-9_10_20170223 (Lab ID: 10380193007)
  - Chloropentafluoroethane
- VP-9_20_20170223 (Lab ID: 10380193008)
  - Chloropentafluoroethane
- VP-9_30_20170223 (Lab ID: 10380193009)
  - Chloropentafluoroethane
- VP-NYSDEC-5_10_20170223 (Lab ID: 10380193002)
  - Chloropentafluoroethane
- VP-NYSDEC-5_20_20170223 (Lab ID: 10380193003)
  - Chloropentafluoroethane
- VP-NYSDEC-5_30_20170223 (Lab ID: 10380193004)
  - Chloropentafluoroethane
- VP-NYSDEC-5_40_20170223 (Lab ID: 10380193005)
  - Chloropentafluoroethane
- VP-NYSDEC-5_5_20170223 (Lab ID: 10380193001)
  - Chloropentafluoroethane

QC Batch: 462794

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2530440)
  - Chloropentafluoroethane
- VP-105_50_20170223 (Lab ID: 10380193016)
  - Chloropentafluoroethane
- VP-105_60_20170223 (Lab ID: 10380193017)
  - Chloropentafluoroethane
- VP-105_72_20170223 (Lab ID: 10380193018)
  - Chloropentafluoroethane

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

QC Batch: 462794

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- VP-9_60_20170223DUP (Lab ID: 10380193019)
  - Chloropentafluoroethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 462594

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
- LCS (Lab ID: 2529704)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.
- VP-9_30_20170223 (Lab ID: 10380193009)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
- VP-9_40_20170223 (Lab ID: 10380193010)
  - cis-1,2-Dichloroethene
  - trans-1,2-Dichloroethene
  - Tetrachloroethene
  - 1,1,2-Trichlorotrifluoroethane
  - Trichloroethene
- VP-9_50_20170223 (Lab ID: 10380193011)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
- VP-9_60_20170223 (Lab ID: 10380193012)
  - cis-1,2-Dichloroethene

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

Analyte Comments:

QC Batch: 462594

A3: The sample was analyzed by serial dilution.

- VP-9_60_20170223 (Lab ID: 10380193012)
  - Tetrachloroethene
  - Trichloroethene
- VP-NYSDEC-5_30_20170223 (Lab ID: 10380193004)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - 1,1,2-Trichlorotrifluoroethane
  - Trichloroethene
- VP-NYSDEC-5_40_20170223 (Lab ID: 10380193005)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - 1,1,2-Trichlorotrifluoroethane
  - Trichloroethene
- VP-NYSDEC-5_50_20170223 (Lab ID: 10380193006)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene

QC Batch: 462794

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2530440)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.

- VP-105_50_20170223 (Lab ID: 10380193016)
  - Trichloroethene
- VP-105_60_20170223 (Lab ID: 10380193017)
  - Trichloroethene
- VP-105_72_20170223 (Lab ID: 10380193018)
  - Trichloroethene
- VP-9_60_20170223DUP (Lab ID: 10380193019)
  - Trichloroethene

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- DUP (Lab ID: 2530739)
  - Cyclohexane
  - n-Hexane

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

Analyte Comments:

QC Batch: 462987

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure

- LCS (Lab ID: 2531282)
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2531282)
  - 1,2-Dibromo-3-chloropropane

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- DUP (Lab ID: 2531695)
  - Cyclohexane
  - n-Hexane

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

1038 0193

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26321

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: TETRA TECH	Report To: DOUG MELLOTT	Attention:
Address: 295 RT. 22E, SUITE 104E WHITEHOUSE STATION, NJ 08889	Copy To:	Company Name:
		Address:
Email To: DOUG.MELLOTT@TETRATECH.COM	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: LINC GREAT NECK	Pace Project Manager/Sales Rep.
Requested Due Date/TAT:	Project Number: 117-0507644	Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Valid Media Codes: MEDIA / CODE — Tedlar Bag / TB; 1 Liter Summa Can / 1LC; 6 Liter Summa Can / 6LC; Low Volume Puff / LVP; High Volume Puff / HVP; Other / PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-NYSDEC-5_5_20170223	6LC		2/23/17	0845	2/23/17	1227	-30	-9	26760	3688								X		001
2	VP-NYSDEC-5_10_20170223				0845		1208	-30	-9	15802	0358								X		002
3	VP-NYSDEC-5_20_20170223				0845		1208	-30	-9	22955	0865								X		003
4	VP-NYSDEC-5_30_20170223				0845		1208	-27	-9	10411	0253								X		004
5	VP-NYSDEC-5_40_20170223				0845		1303	-30	-9	28246	1048								X		005
6	VP-NYSDEC-5_56_20170223				0845		1208	-29.5	-9	27622	0054								X		006
7	VP-9_10_20170223				0826		1156	-30	-9	11999	0134								X		007
8	VP-9_20_20170223				0826		1204	-28	-9	08721	0056								X		008
9	VP-9_30_20170223				0826		1210	-29	-9	23680	0053								X		009
10	VP-9_40_20170223				0826		1210	-30	-9	28240	0091								X		010
11	VP-9_50_20170223				0826		1156	-30	-9	23666	0355								X		011
12	VP-9_60_20170223	↓		↓	0826	↓	1159	-29	-8	21883	1084								X		012

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
TT	2/24/17	1215	FedEx	2/24/17	1215
TT	2/24/17	1315	Pace	2/25/17	0900

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jon Byk, Andrew Kelly, Dan Mackenzie

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 2/23/17

ORIGINAL

10380193

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26322

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: TETRA TECH	Report To: DARIUS MELIOT	Attention:
Address: 285 RT 22E, SUITE 106	Copy To:	Company Name:
WHITEHOUSE STATION, NJ 08889		Address:
Email To: DARIUS.MELIOT@TETRATECH.COM	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: LIRR GREAT NECK	Pace Project Manager/Sales Rep.
Requested Due Date/TAT:	Project Number: 117-0507666	Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-105_5_20170223	6K		2/23/17	0901	2/23/17	1250	-29	-10	1087	0320								X		013
2	VP-105_10_20170223				0901		1249	-30	-9	944	0356								X		014
3	VP-105_20_20170223				0901		1249	-30	-9	2700	0045								X		015
4	VP-105_32_20170223																				
5	VP-105_50_20170223				0901		1250	-30	-8	858	0133								X		016
6	VP-105_60_20170223				0905		1248	-30	-8	1065	0039								X		017
7	VP-105_72_20170223	↓		↓	0901	↓	1248	-30	-8	2768	0308								X		018
8	VP-9_60_20170223DUP	6K		2/23/17	0826	2/23/17	1159	-30	-10	952	0354								X		019
9																					020-023 unused
10																					
11																					
12																					

Valid Media Codes: MEDIA — CODE: Tedlar Bag — TB; 1 Liter Summa Can — 1LC; 6 Liter Summa Can — 6LC; Low Volume Puff — LVP; High Volume Puff — HVP; Other — PM10

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	2/24/17	1215		2/24/17	1215
	2/24/17	1315		22517	0900

SAMPLE CONDITIONS

	Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
ANB		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JON BUNK, ANDREW KEAY, DAN TRACHTENBERG

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2/23/17

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: tetra tech NJ

Project #: WO#: 10380193

10380193

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 7785 1021 5731 - master

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): **Corrected Temp (°C):** **Thermom. Used:** ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C **Correction Factor:** **Date & Initials of Person Examining Contents:** 2/27/17

Type of ice Received ☐ Blue ☐ Wet ☒ None

Comments:

Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
UNUSED	1651	1037	tag empty	can is @	-30 psi
UNUSED	2023	0035	- tag says "bad"	can is @	-20 psi
	2697	0262	- tag says "bad"	2/28/17 can is @	-30 psi
	2563	0795	- tag says "bad"	can is @	-16 psi

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 2/27/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
Alaska Certification UST-107
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10380193001
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193002
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193003
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193004
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193005
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193006
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193007
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193008
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193009
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193010
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

SAMPLE QUALIFIERS

Sample: 10380193011
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193012
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193013
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193014
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193015
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193016
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193017
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193018
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10380193019
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

ANALYTE QUALIFIERS

1M	This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure
2M	This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
A3	The sample was analyzed by serial dilution.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10380193001	**VP-NYSDEC-5_5_20170223**	Air	02/23/17 12:27	02/25/17 09:00
10380193002	**VP-NYSDEC-5_10_20170223**	Air	02/23/17 12:08	02/25/17 09:00
10380193003	**VP-NYSDEC-5_20_20170223**	Air	02/23/17 12:08	02/25/17 09:00
10380193004	**VP-NYSDEC-5_30_20170223**	Air	02/23/17 12:08	02/25/17 09:00
10380193005	**VP-NYSDEC-5_40_20170223**	Air	02/23/17 13:03	02/25/17 09:00
10380193006	**VP-NYSDEC-5_50_20170223**	Air	02/23/17 12:08	02/25/17 09:00
10380193007	**VP-9_10_20170223**	Air	02/23/17 11:56	02/25/17 09:00
10380193008	**VP-9_20_20170223**	Air	02/23/17 12:04	02/25/17 09:00
10380193009	**VP-9_30_20170223**	Air	02/23/17 12:10	02/25/17 09:00
10380193010	**VP-9_40_20170223**	Air	02/23/17 12:10	02/25/17 09:00
10380193011	**VP-9_50_20170223**	Air	02/23/17 11:56	02/25/17 09:00
10380193012	**VP-9_60_20170223**	Air	02/23/17 11:59	02/25/17 09:00
10380193013	**VP-105_5_20170223**	Air	02/23/17 12:50	02/25/17 09:00
10380193014	**VP-105_10_20170223**	Air	02/23/17 12:49	02/25/17 09:00
10380193015	**VP-105_20_20170223**	Air	02/23/17 12:49	02/25/17 09:00
10380193016	**VP-105_50_20170223**	Air	02/23/17 12:50	02/25/17 09:00
10380193017	**VP-105_60_20170223**	Air	02/23/17 12:48	02/25/17 09:00
10380193018	**VP-105_72_20170223**	Air	02/23/17 12:48	02/25/17 09:00
10380193019	**VP-9_60_20170223DUP**	Air	02/23/17 11:59	02/25/17 09:00
10380193020	**Unused Can#1651**	Air		02/25/17 09:00
10380193021	**Unused Can#2023**	Air		02/25/17 09:00
10380193022	**Unused Can#2697**	Air		02/25/17 09:00
10380193023	**Unused Can#2563**	Air		02/25/17 09:00

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10380193001	**VP-NYSDEC-5_5_20170223**	TO-15	NCK	62
10380193002	**VP-NYSDEC-5_10_20170223**	TO-15	NCK	62
10380193003	**VP-NYSDEC-5_20_20170223**	TO-15	NCK	62
10380193004	**VP-NYSDEC-5_30_20170223**	TO-15	NCK	62
10380193005	**VP-NYSDEC-5_40_20170223**	TO-15	NCK	62
10380193006	**VP-NYSDEC-5_50_20170223**	TO-15	NCK	62
10380193007	**VP-9_10_20170223**	TO-15	NCK	62
10380193008	**VP-9_20_20170223**	TO-15	NCK	62
10380193009	**VP-9_30_20170223**	TO-15	NCK	62
10380193010	**VP-9_40_20170223**	TO-15	NCK	62
10380193011	**VP-9_50_20170223**	TO-15	NCK	62
10380193012	**VP-9_60_20170223**	TO-15	NCK	62
10380193013	**VP-105_5_20170223**	TO-15	NCK	62
10380193014	**VP-105_10_20170223**	TO-15	NCK	62
10380193015	**VP-105_20_20170223**	TO-15	NCK	62
10380193016	**VP-105_50_20170223**	TO-15	NCK	62
10380193017	**VP-105_60_20170223**	TO-15	NCK	62
10380193018	**VP-105_72_20170223**	TO-15	NCK	62
10380193019	**VP-9_60_20170223DUP**	TO-15	NCK	62

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462594 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06409_27839.D Lab Sample ID: 2529703
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 13:11
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-NYSDEC-5_5_20170223	10380193001	06418.D	17:49
02	VP-NYSDEC-5_10_20170223	10380193002	06420.D	18:53
03	VP-NYSDEC-5_20_20170223	10380193003	06422.D	19:59
04	VP-NYSDEC-5_30_20170223	10380193004	06423.D	20:31
05	VP-NYSDEC-5_40_20170223	10380193005	06424.D	21:02
06	VP-NYSDEC-5_50_20170223	10380193006	06425.D	21:33
07	VP-9_10_20170223	10380193007	06426.D	22:04
08	VP-9_20_20170223	10380193008	06427.D	22:37
09	VP-9_30_20170223	10380193009	06428.D	23:10
10	VP-9_40_20170223	10380193010	06429.D	23:41
11	VP-9_50_20170223	10380193011	06431.D	00:39
12	VP-9_60_20170223	10380193012	06432.D	01:10
13	VP-105_5_20170223	10380193013	06433.D	01:43

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462794 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06504_27846.D Lab Sample ID: 2530439
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 10:09
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-105_50_20170223	10380193016	06536.D	02:27
02	VP-105_60_20170223	10380193017	06537.D	02:54
03	VP-105_72_20170223	10380193018	06538.D	03:21
04	VP-9_60_20170223DUP	10380193019	06539.D	03:49

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462987 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06604_27858.D Lab Sample ID: 2531281
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 09:56
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-105_10_20170223	10380193014	06622.D	18:33
02	VP-105_20_20170223	10380193015	06624.D	19:37

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06101BFB.D BFB Injection Date: 03/02/2017
Instrument ID: 10AIRB BFB Injection Time: 07:16
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.18	
75	30.00 - 66.00% of mass 95	48.17	
96	5.00 - 9.00% of mass 95	6.23	
173	Less than 2.00% of mass 174	0.90	(0.94)
174	50.00 - 120.00% of mass 95	95.41	
175	4.00 - 9.00% of mass 174	6.96	(7.30)
176	93.00 - 101.00% of mass 174	91.75	(96.16)
177	5.00 - 9.00% of mass 176	5.98	(6.52)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	06109.D	03/02/2017	11:19
2	CAL2	CAL2	06110.D	03/02/2017	11:46
3	CAL3	CAL3	06111.D	03/02/2017	12:14
4	CAL4	CAL4	06112.D	03/02/2017	12:43
5	CAL5	CAL5	06113.D	03/02/2017	13:10
6	CAL6	CAL6	06114.D	03/02/2017	13:39
7	CAL7	CAL7	06115.D	03/02/2017	14:08
8	ICV	ICV	06117.D	03/02/2017	15:02

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06401BFB.D BFB Injection Date: 03/05/2017
Instrument ID: 10AIRB BFB Injection Time: 09:08
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.04	
75	30.00 - 66.00% of mass 95	47.83	
96	5.00 - 9.00% of mass 95	6.22	
173	Less than 2.00% of mass 174	0.95	(0.99)
174	50.00 - 120.00% of mass 95	95.49	
175	4.00 - 9.00% of mass 174	6.70	(7.02)
176	93.00 - 101.00% of mass 174	91.43	(95.75)
177	5.00 - 9.00% of mass 176	6.11	(6.68)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 462594 [AIR/27839]	2529704	06402_27839.D	03/05/2017	09:36
2	CCV	CCV	06402.D	03/05/2017	09:36
3	BLANK for HBN 462594 [AIR/2783	2529703	06409_27839.D	03/05/2017	13:11
4	VP-NYSDEC-5_5_20170223	10380193001	06418.D	03/05/2017	17:49
5	VP-NYSDEC-5_5_2...(2524233DUP)	2530069-DUP	06419.D	03/05/2017	18:20
6	VP-NYSDEC-5_10_20170223	10380193002	06420.D	03/05/2017	18:53
7	VP-NYSDEC-5_20_20170223	10380193003	06422.D	03/05/2017	19:59
8	VP-NYSDEC-5_30_20170223	10380193004	06423.D	03/05/2017	20:31
9	VP-NYSDEC-5_40_20170223	10380193005	06424.D	03/05/2017	21:02
10	VP-NYSDEC-5_50_20170223	10380193006	06425.D	03/05/2017	21:33
11	VP-9_10_20170223	10380193007	06426.D	03/05/2017	22:04
12	VP-9_20_20170223	10380193008	06427.D	03/05/2017	22:37
13	VP-9_30_20170223	10380193009	06428.D	03/05/2017	23:10
14	VP-9_40_20170223	10380193010	06429.D	03/05/2017	23:41
15	VP-9_50_20170223	10380193011	06431.D	03/06/2017	00:39
16	VP-9_60_20170223	10380193012	06432.D	03/06/2017	01:10
17	VP-105_5_20170223	10380193013	06433.D	03/06/2017	01:43

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06501BFB.D BFB Injection Date: 03/06/2017
Instrument ID: 10AIRB BFB Injection Time: 08:42
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.14	
75	30.00 - 66.00% of mass 95	46.63	
96	5.00 - 9.00% of mass 95	6.64	
173	Less than 2.00% of mass 174	0.90	(0.95)
174	50.00 - 120.00% of mass 95	94.92	
175	4.00 - 9.00% of mass 174	6.78	(7.14)
176	93.00 - 101.00% of mass 174	91.76	(96.67)
177	5.00 - 9.00% of mass 176	5.88	(6.41)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06502.D	03/06/2017	09:10
2	LCS for HBN 462794 [AIR/27846]	2530440	06502_27846.D	03/06/2017	09:10
3	BLANK for HBN 462794 [AIR/2784	2530439	06504_27846.D	03/06/2017	10:09
4	CERT	CERT	06504.D	03/06/2017	10:09
5	VP-NYSDEC-5_20_20170223	10380193003	06508.D	03/06/2017	12:14
6	VP-NYSDEC-5_30_20170223	10380193004	06509.D	03/06/2017	12:42
7	VP-NYSDEC-5_40_20170223	10380193005	06510.D	03/06/2017	13:10
8	VP-NYSDEC-5_50_20170223	10380193006	06511.D	03/06/2017	13:38
9	VP-9_30_20170223	10380193009	06512.D	03/06/2017	14:06
10	VP-9_50_20170223	10380193011	06513.D	03/06/2017	14:34
11	VP-9_60_20170223	10380193012	06514.D	03/06/2017	15:02
12	VP-9_40_20170223	10380193010	06515.D	03/06/2017	15:30
13	VP-9_20_20170223	10380193008	06516.D	03/06/2017	15:58
14	IA-2(2527393DUP)	2530739-DUP	06531.D	03/07/2017	00:07
15	VP-105_10_20170223	10380193014	06534.D	03/07/2017	01:33
16	VP-105_50_20170223	10380193016	06536.D	03/07/2017	02:27
17	VP-105_60_20170223	10380193017	06537.D	03/07/2017	02:54
18	VP-105_72_20170223	10380193018	06538.D	03/07/2017	03:21
19	VP-9_60_20170223DUP	10380193019	06539.D	03/07/2017	03:49

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06601BFB.D BFB Injection Date: 03/07/2017
Instrument ID: 10AIRB BFB Injection Time: 08:30
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.28	
75	30.00 - 66.00% of mass 95	47.24	
96	5.00 - 9.00% of mass 95	6.60	
173	Less than 2.00% of mass 174	0.98	(0.96)
174	50.00 - 120.00% of mass 95	101.69	
175	4.00 - 9.00% of mass 174	7.28	(7.16)
176	93.00 - 101.00% of mass 174	98.02	(96.40)
177	5.00 - 9.00% of mass 176	6.37	(6.49)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06602.D	03/07/2017	08:58
2	LCS for HBN 462987 [AIR/27858]	2531282	06602_27858.D	03/07/2017	08:58
3	CERT	CERT	06604.D	03/07/2017	09:56
4	BLANK for HBN 462987 [AIR/2785	2531281	06604_27858.D	03/07/2017	09:56
5	VP-105_72_20170223	10380193018	06615.D	03/07/2017	15:15
6	VP-105_50_20170223	10380193016	06616.D	03/07/2017	15:42
7	VP-105_60_20170223	10380193017	06617.D	03/07/2017	16:10
8	VP-9_60_20170223DUP	10380193019	06618.D	03/07/2017	16:38
9	VP-105_10_20170223	10380193014	06622.D	03/07/2017	18:33
10	VP-105_10_20170223(2524246DUP)	2531695-DUP	06623.D	03/07/2017	19:05
11	VP-105_20_20170223	10380193015	06624.D	03/07/2017	19:37

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/05/2017

Lab File ID (Standard): 06402.D Time Analyzed: 09:36

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
16	24 HOUR STANDARD	1422092	5.610	975415	8.645
16	UPPER LIMIT	2844184	6.110	1950830	9.145
16	LOWER LIMIT	711046	5.110	487708	8.145
16	EPA SAMPLE NO.				
16	LCS for HBN 462594 [AIR/27839]	1422092	5.610	975415	8.645
16	BLANK for HBN 462594 [AIR/2783	1368126	5.597	883486	8.639
16	VP-NYSDEC-5_5_20170223	1262802	5.597	830523	8.642
16	VP-NYSDEC-5_5_2...(2524233DUP)	1253537	5.600	819331	8.642
16	VP-NYSDEC-5_10_20170223	1081291	5.600	725538	8.642
16	VP-NYSDEC-5_20_20170223	1180495	5.610	765836	8.642
16	VP-NYSDEC-5_30_20170223	1260991	5.636	798160	8.658
16	VP-NYSDEC-5_40_20170223	1308029	5.642	824752	8.671
16	VP-NYSDEC-5_50_20170223	1360217	5.649	819476	8.681
16	VP-9_10_20170223	1326873	5.600	866451	8.642
16	VP-9_20_20170223	1139845	5.604	771806	8.639
16	VP-9_30_20170223	1263920	5.623	824428	8.649
16	VP-9_40_20170223	1281545	5.665	821398	8.713
16	VP-9_50_20170223	1373377	5.626	880233	8.652
16	VP-9_60_20170223	1391442	5.623	889276	8.652
16	VP-105_5_20170223	1189236	5.601	811554	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/06/2017

Lab File ID (Standard): 06502.D Time Analyzed: 09:10

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
13	24 HOUR STANDARD	1346534	5.613	919501	8.645
13	UPPER LIMIT	2693068	6.113	1839002	9.145
13	LOWER LIMIT	673267	5.113	459750	8.145
13	EPA SAMPLE NO.				
13	LCS for HBN 462794 [AIR/27846]	1346534	5.613	919501	8.645
13	BLANK for HBN 462794 [AIR/2784	1359985	5.600	894111	8.642
13	VP-NYSDEC-5_20_20170223	1057299	5.597	713732	8.639
13	VP-NYSDEC-5_30_20170223	1346987	5.600	869211	8.639
13	VP-NYSDEC-5_40_20170223	1325196	5.601	848313	8.639
13	VP-NYSDEC-5_50_20170223	1321054	5.601	839913	8.639
13	VP-9_30_20170223	1314471	5.600	847945	8.642
13	VP-9_50_20170223	1320888	5.604	846651	8.642
13	VP-9_60_20170223	1304089	5.604	833233	8.639
13	VP-9_40_20170223	1299167	5.600	839874	8.642
13	VP-9_20_20170223	1287626	5.600	846484	8.642
13	IA-2(2527393DUP)	1351232	5.620	910798	8.646
13	VP-105_10_20170223	1380790	5.601	913748	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/07/2017

Lab File ID (Standard): 06602.D Time Analyzed: 08:58

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
02	24 HOUR STANDARD	1332803	5.610	904534	8.645
02	UPPER LIMIT	2665606	6.110	1809068	9.145
02	LOWER LIMIT	666402	5.110	452267	8.145
02	EPA SAMPLE NO.				
02	LCS for HBN 462987 [AIR/27858]	1332803	5.610	904534	8.645
02	BLANK for HBN 462987 [AIR/2785	1343118	5.600	880519	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_5_20170223 **Lab ID: 10380193001** Collected: 02/23/17 12:27 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**74.0**	ug/m3	4.2	1.5	1.75		03/05/17 17:49	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/05/17 17:49	107-05-1	
Benzene	**1.5**	ug/m3	0.57	0.21	1.75		03/05/17 17:49	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/05/17 17:49	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/05/17 17:49	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/05/17 17:49	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/05/17 17:49	106-99-0	
2-Butanone (MEK)	**14.0**	ug/m3	5.2	0.40	1.75		03/05/17 17:49	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/05/17 17:49	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/05/17 17:49	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/05/17 17:49	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/05/17 17:49	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/05/17 17:49	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/05/17 17:49	67-66-3	
Chloromethane	**1.1**	ug/m3	0.74	0.19	1.75		03/05/17 17:49	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 17:49	76-15-3	CL
Cyclohexane	**13.6**	ug/m3	1.2	0.55	1.75		03/05/17 17:49	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/05/17 17:49	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/05/17 17:49	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/05/17 17:49	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/05/17 17:49	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/05/17 17:49	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/05/17 17:49	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.8	0.84	1.75		03/05/17 17:49	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/05/17 17:49	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/05/17 17:49	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/05/17 17:49	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/05/17 17:49	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/05/17 17:49	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/05/17 17:49	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/05/17 17:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/05/17 17:49	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/05/17 17:49	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 17:49	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/05/17 17:49	123-91-1	
Ethylbenzene	**32.4**	ug/m3	1.5	0.74	1.75		03/05/17 17:49	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.8	0.33	1.75		03/05/17 17:49	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/05/17 17:49	87-68-3	
n-Hexane	**2.4**	ug/m3	1.3	0.62	1.75		03/05/17 17:49	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/05/17 17:49	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/05/17 17:49	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/05/17 17:49	79-20-9	
Methylcyclohexane	**8.4**	ug/m3	1.4	0.42	1.75		03/05/17 17:49	108-87-2	
Methylene Chloride	**6.1J**	ug/m3	6.2	0.95	1.75		03/05/17 17:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/05/17 17:49	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/05/17 17:49	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D
Report Date: 06-Mar-2017 11:16

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06418.D
Lab Smp Id: 10380193001
Inj Date : 05-MAR-2017 17:49
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 18
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	2.976	2.979	(0.532)	3572	0.48248	0.844(QM)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.021	3.021	(0.540)	11476	0.24310	0.425(M)	
6	Chloromethane	50	3.118	3.124	(0.557)	4166	0.28713	0.502	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.542	(0.633)	424707	91.5311	160	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.542	3.578	(0.633)	112285	8.81173	15.4(Q)	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.636	3.655	(0.650)	4128	0.11924	0.209	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.697	3.713	(0.660)	350960	17.5162	30.7	
19	Isopropyl Alcohol	45	3.764	3.764	(0.673)	60701	2.97055	5.20	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	3.941	3.951	(0.704)	8293	0.27185	0.476(Q)	
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D
Report Date: 06-Mar-2017 11:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	3.989	3.992	(0.713)	13992	0.98941	1.73	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.430	4.385	(0.791)	7093	0.39141	0.685	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.475	4.481	(0.800)	374433	9.31971	9.32	
	33 Methyl Ethyl Ketone	72	4.546	4.552	(0.812)	15655	2.67606	4.68(Q)	
	34 n-Hexane	57	4.568	4.578	(0.816)	7798	0.38725	0.678(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.709	4.713	(0.841)	131406	5.07029	8.87(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.446	5.465	(0.973)	10982	0.26965	0.472	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.475	5.484	(0.978)	45330	2.22344	3.89(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	1262802	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.877	5.889	(1.050)	10285	0.45196	0.791	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.967	5.986	(1.066)	2559	0.12061	0.211	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	6.420	6.430	(1.147)	13265	1.18010	2.07	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.070	7.076	(1.263)	1078948	9.54616	9.55	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.147	7.153	(1.277)	527085	10.3345	18.1	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.584	(0.876)	12584	0.44298	0.775(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.923)	11226	0.38926	0.681	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	830523	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.934	(1.033)	256468	4.19852	7.35	
	70 m&p-Xylene	91	9.073	9.082	(1.050)	730513	15.2365	26.7	
	71 n-Nonane	43	9.465	9.468	(1.095)	3725	0.15063	0.264(QM)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.504	9.507	(1.100)	6840	0.23858	0.418	
	74 o-Xylene	91	9.577	9.581	(1.108)	184008	3.77242	6.60	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	10.912	10.912	(1.263)	4501	0.16101	0.282(M)	
	79 1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D
Report Date: 06-Mar-2017 11:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
80	n-Decane	57	11.397	11.378	(2.036)	39926	1.44527	2.53(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.510	11.513	(1.332)	11910	0.24141	0.422	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	474892	10.3800	10.4	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	11.983	11.989	(1.387)	12909	0.19177	0.336	
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.169	(1.640)	16442	0.81422	1.42	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D
Report Date: 06-Mar-2017 11:16

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06418.D
Lab Smp Id: 10380193001
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

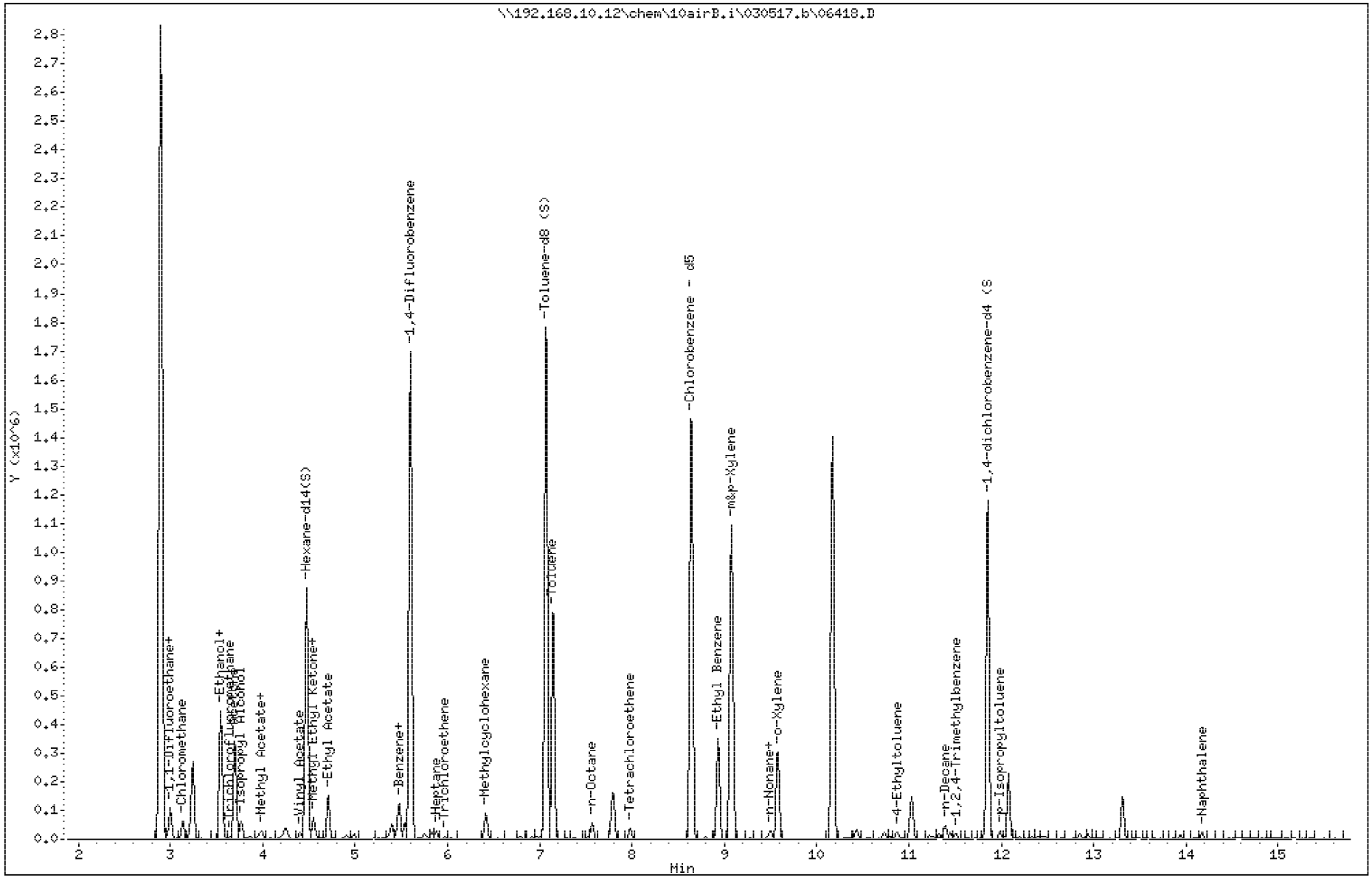
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1262802	-10.70
67 Chlorobenzene - d	951026	570616	1331436	830523	-12.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D
Date : 05-MAR-2017 17:49
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

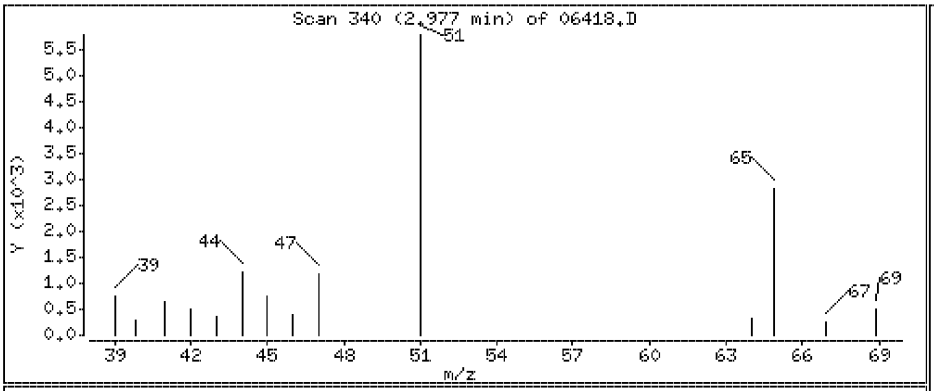
Operator: NCK

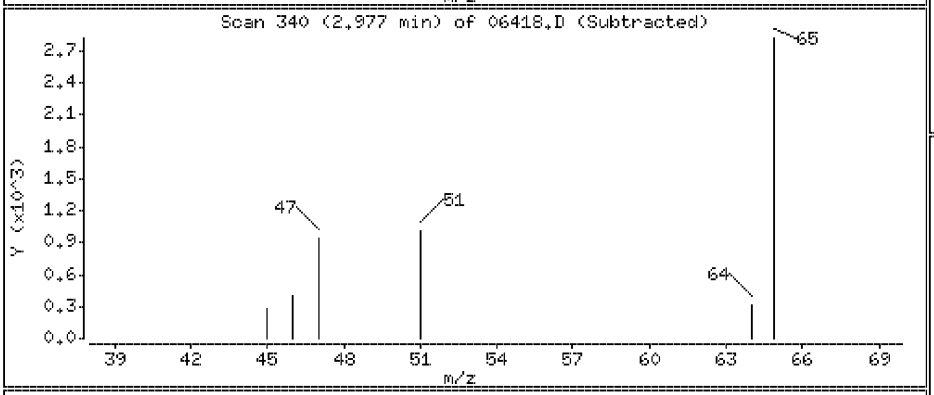
Column phase: J&W DB-5

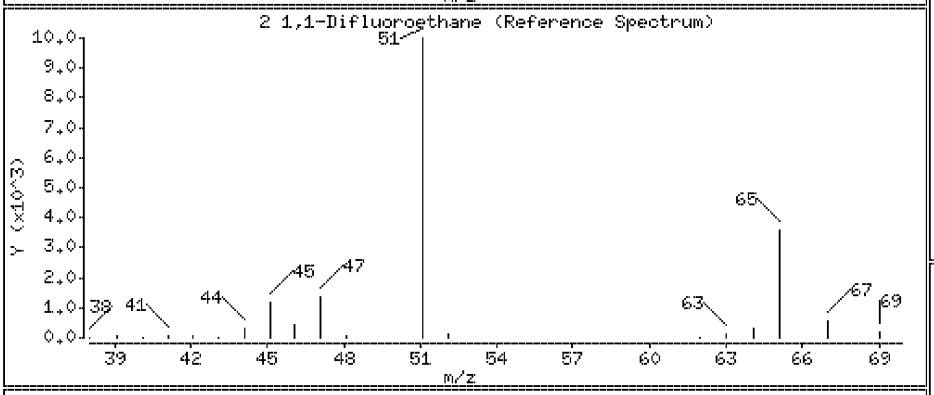
Column diameter: 0.32

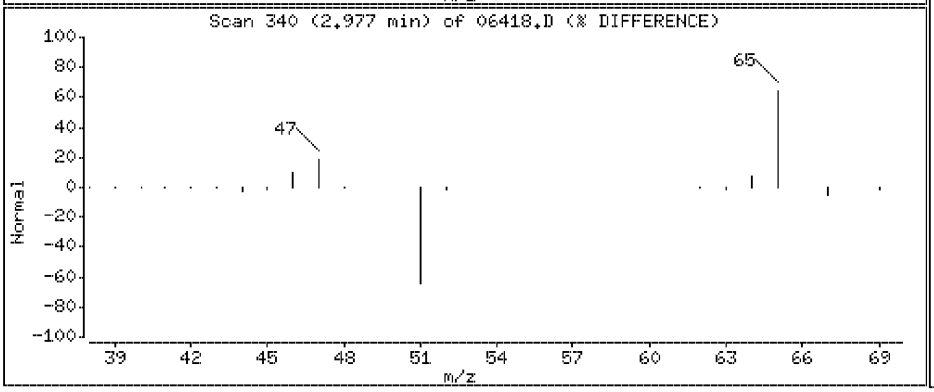
2 1,1-Difluoroethane

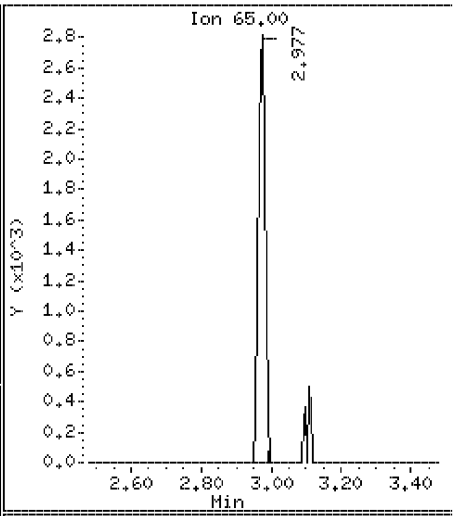
Concentration: 0.844 ppbv

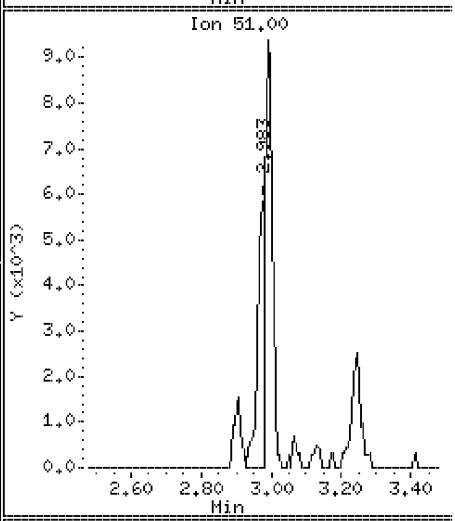


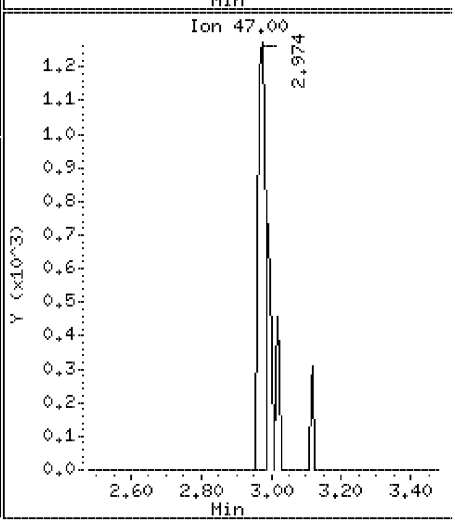












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

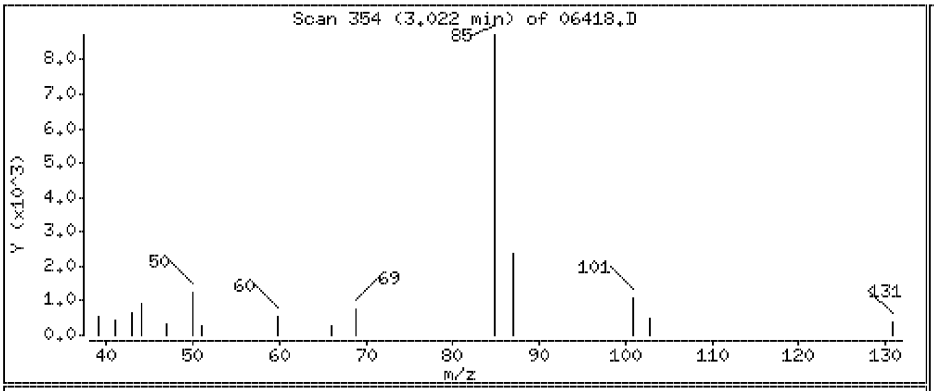
Operator: NCK

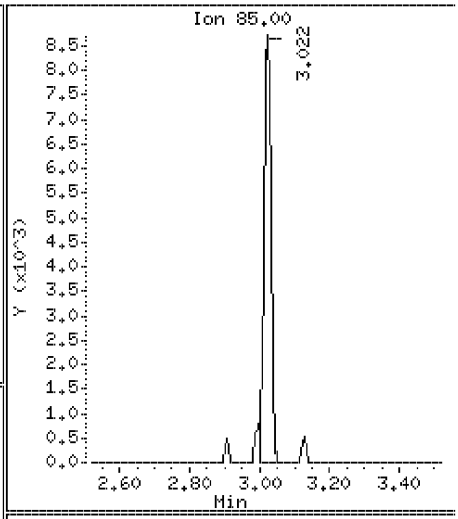
Column phase: J&W DB-5

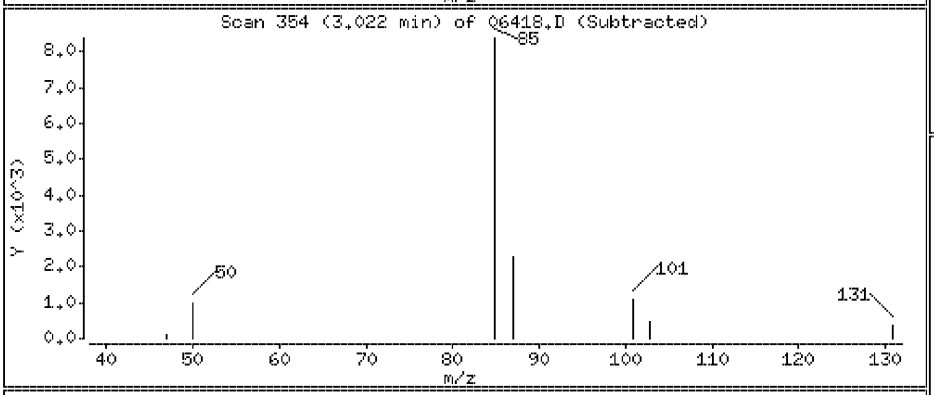
Column diameter: 0.32

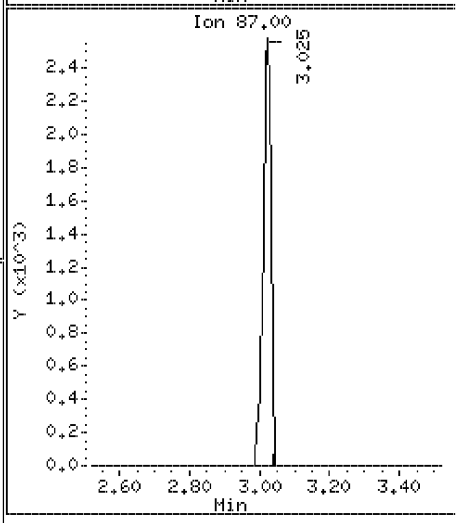
5 Dichlorodifluoromethane

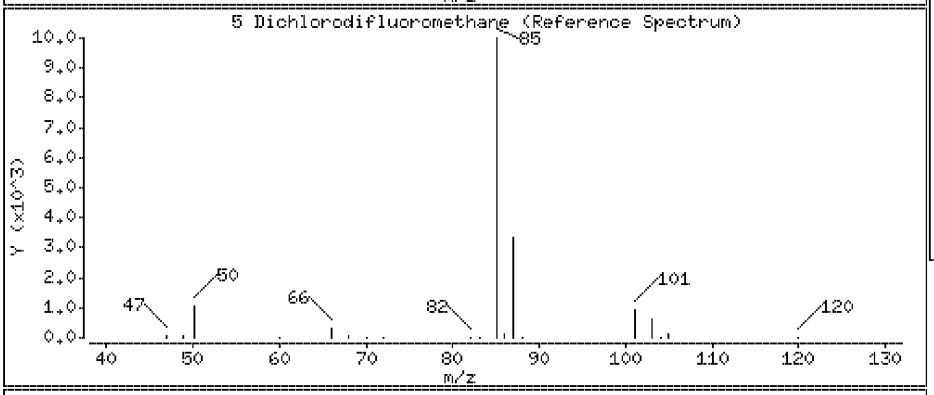
Concentration: 0.425 ppbv

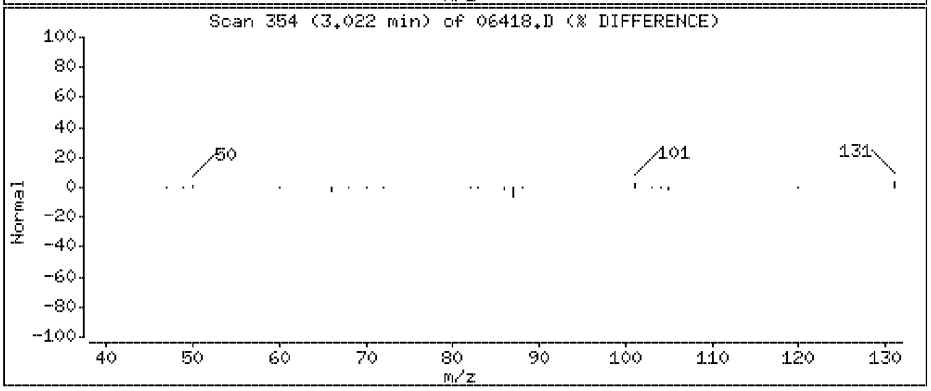












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

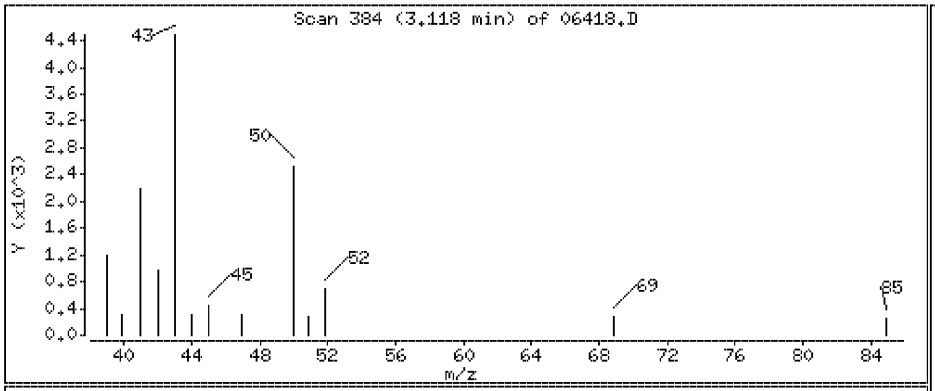
Operator: NCK

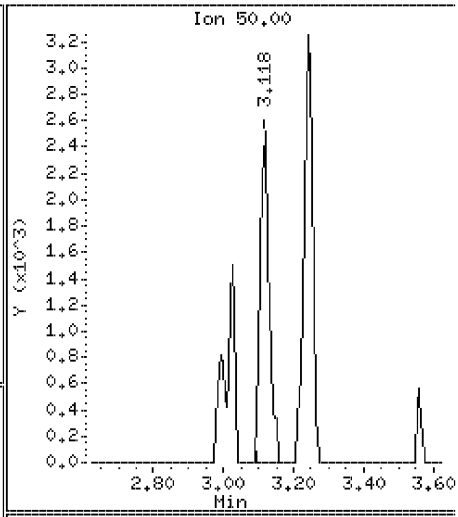
Column phase: J&W DB-5

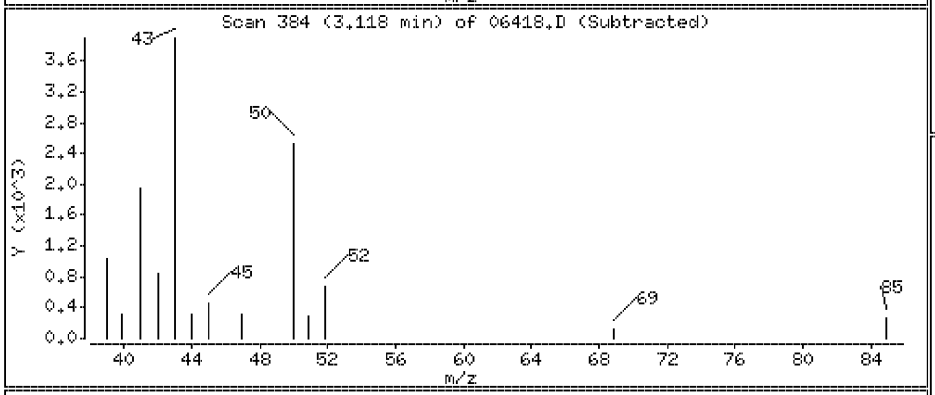
Column diameter: 0.32

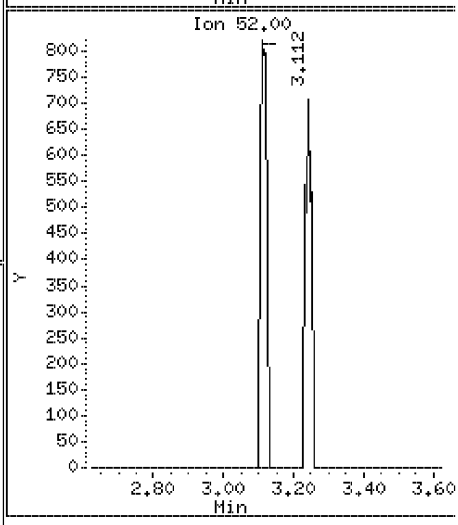
6 Chloromethane

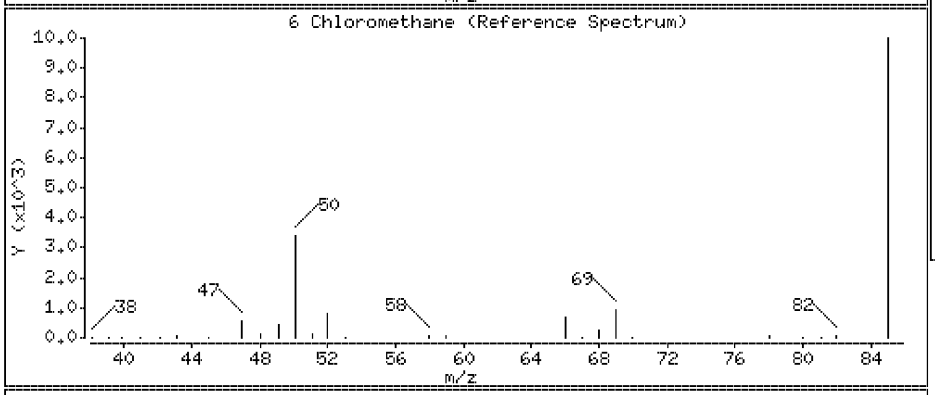
Concentration: 0.502 ppbv

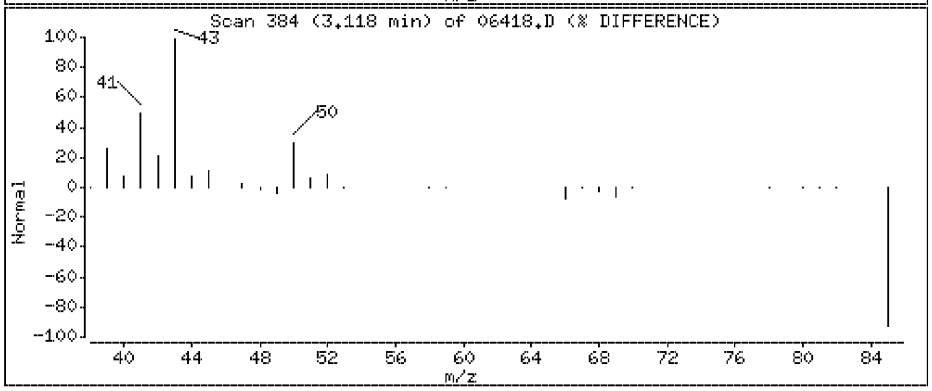












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

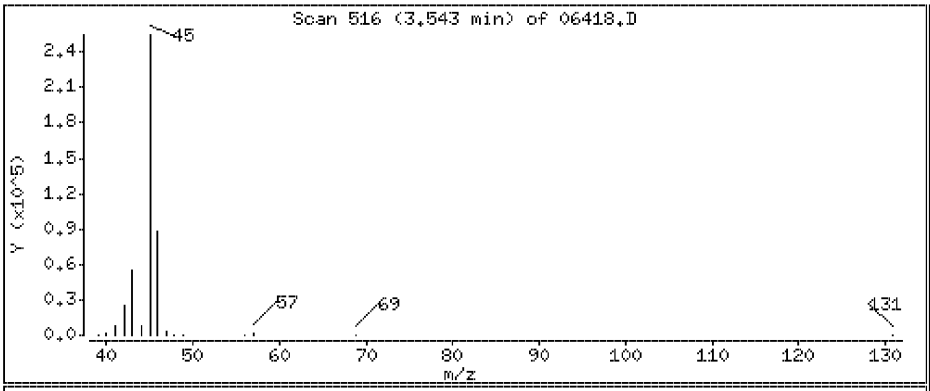
Operator: NCK

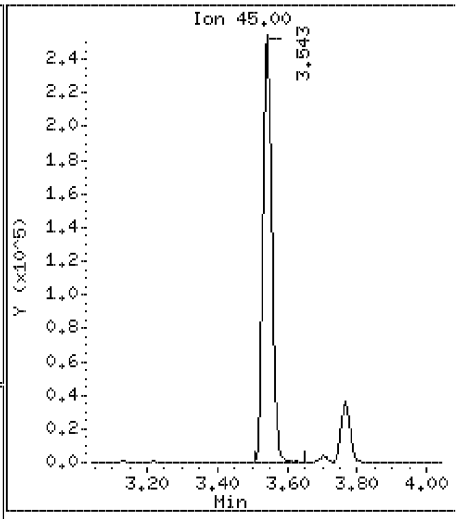
Column phase: J&W DB-5

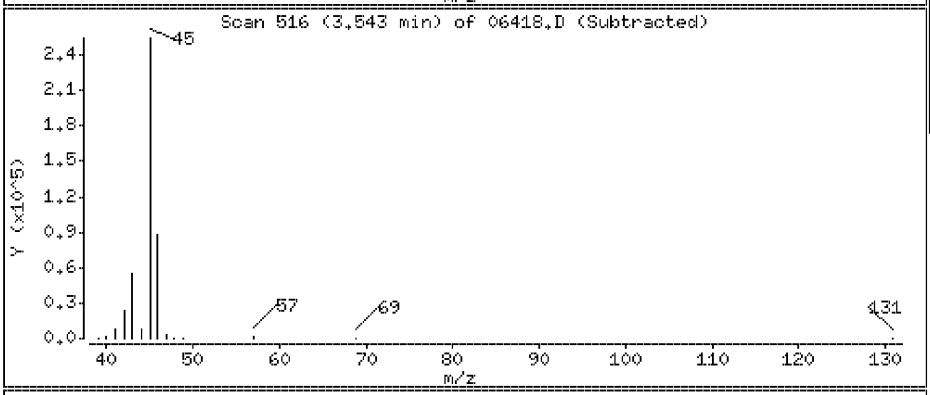
Column diameter: 0.32

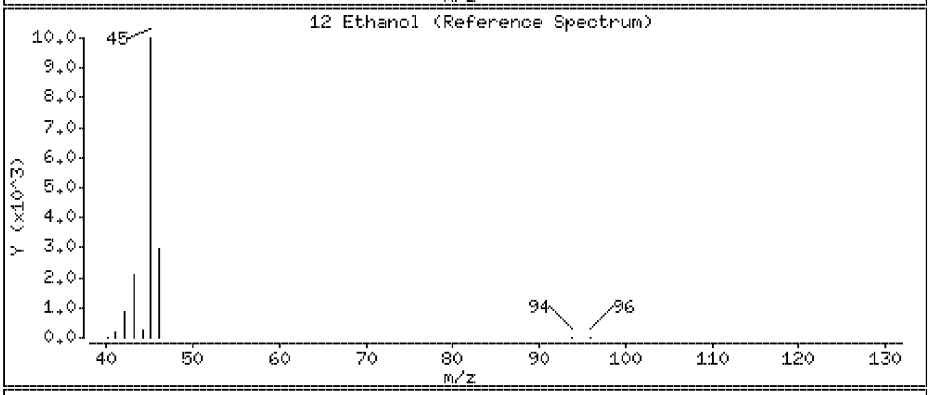
12 Ethanol

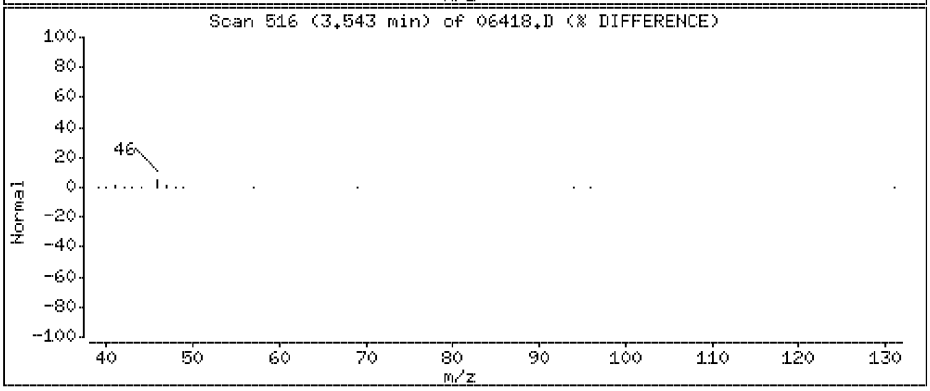
Concentration: 160 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

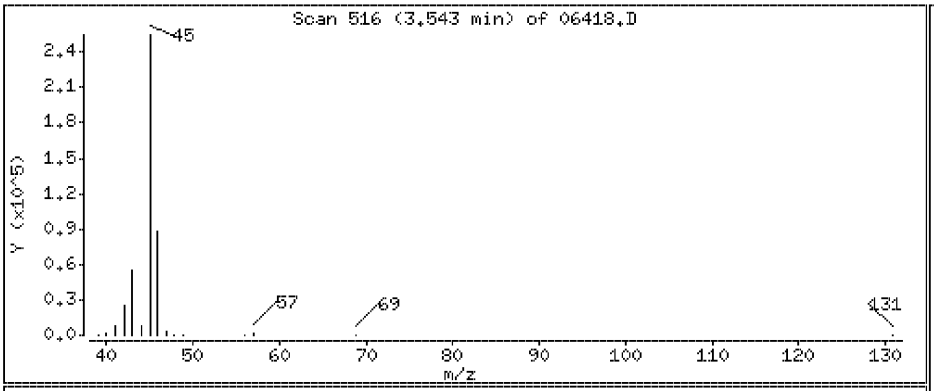
Operator: NCK

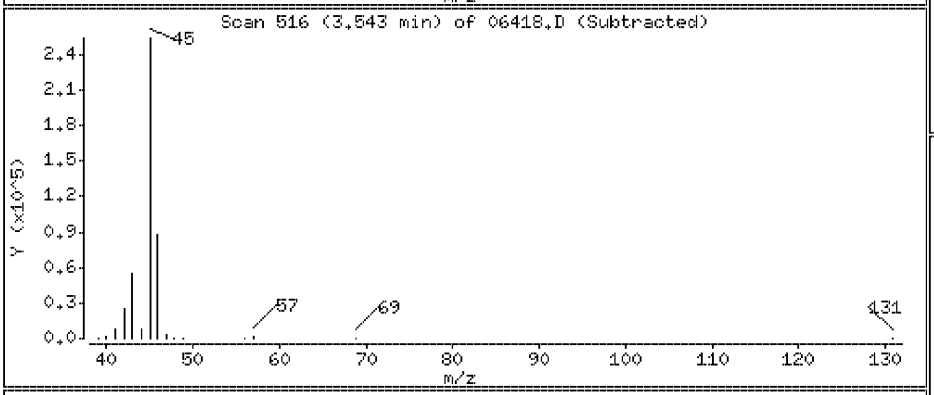
Column phase: J&W DB-5

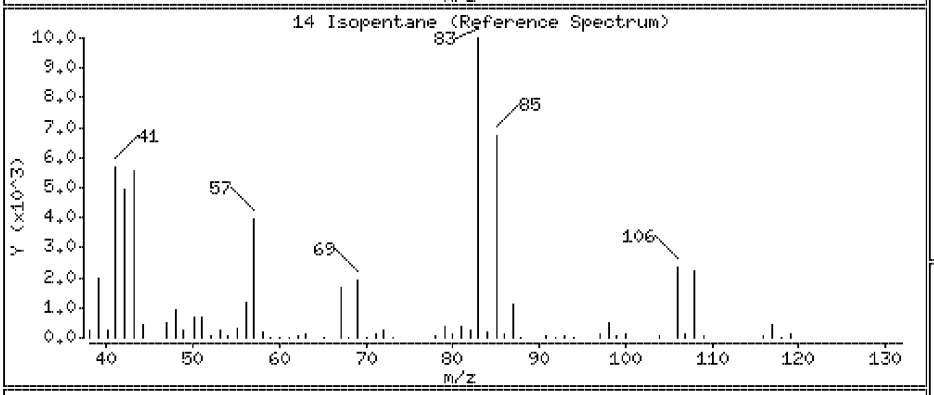
Column diameter: 0.32

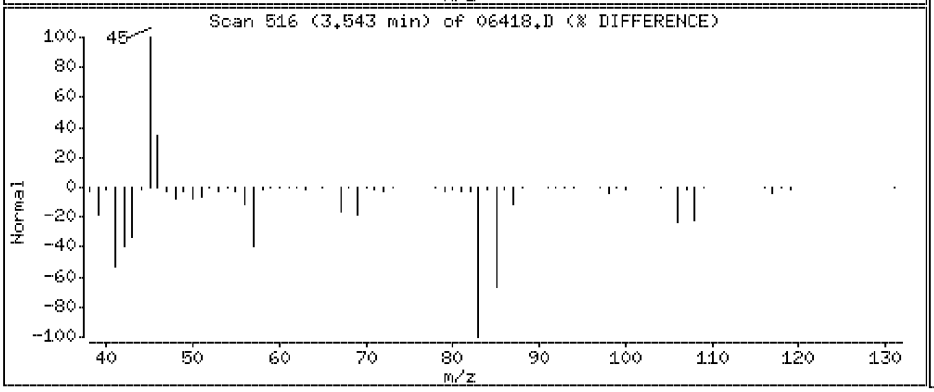
14 Isopentane

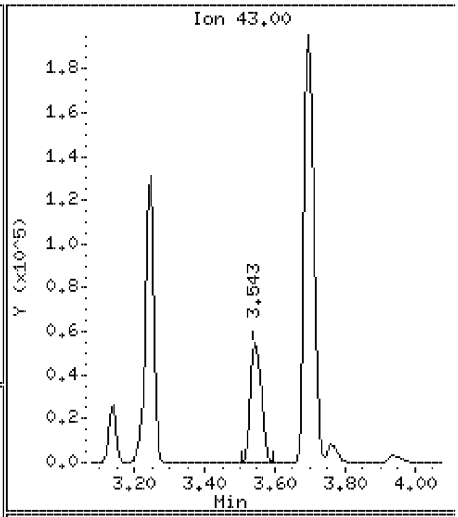
Concentration: 15.4 ppbv

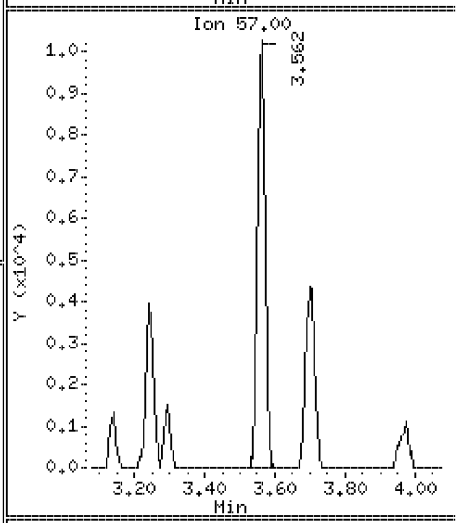


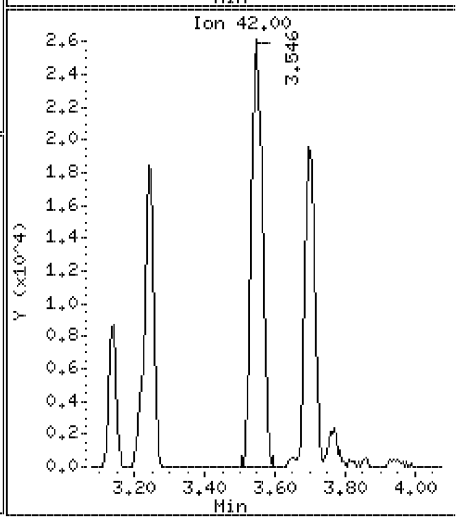












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

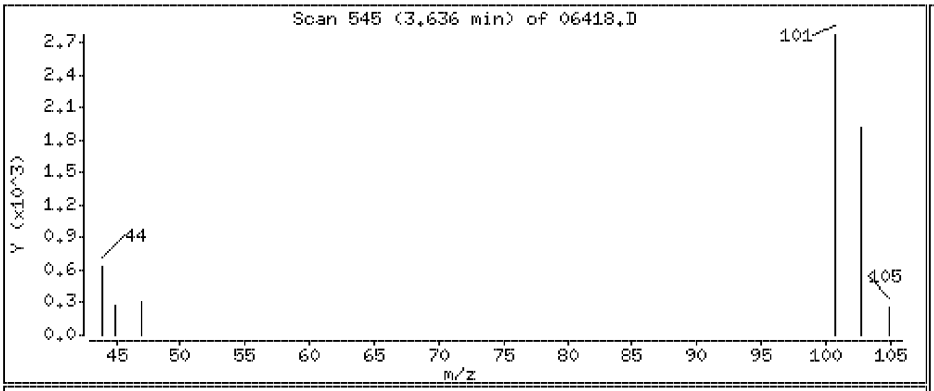
Operator: NCK

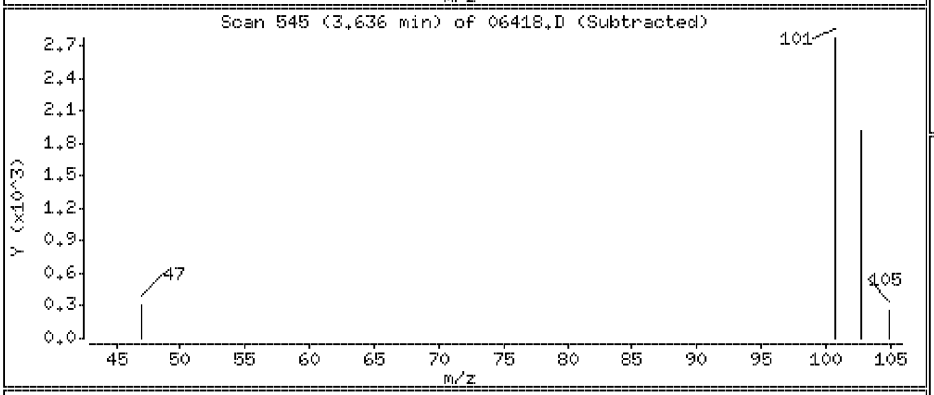
Column phase: J&W DB-5

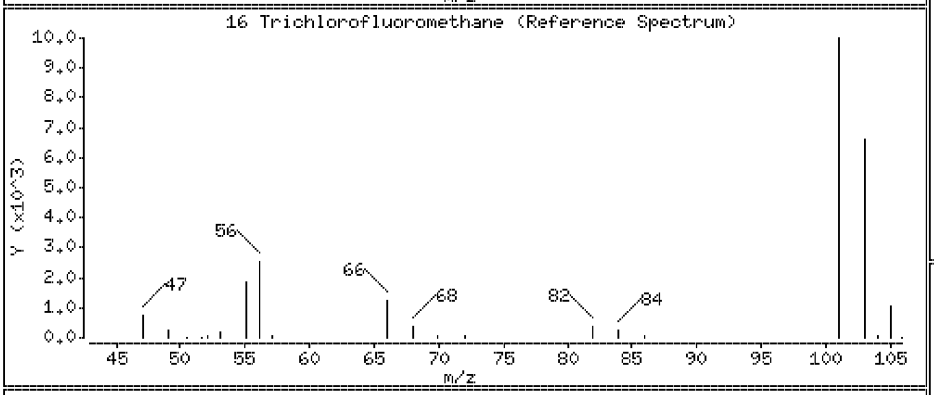
Column diameter: 0.32

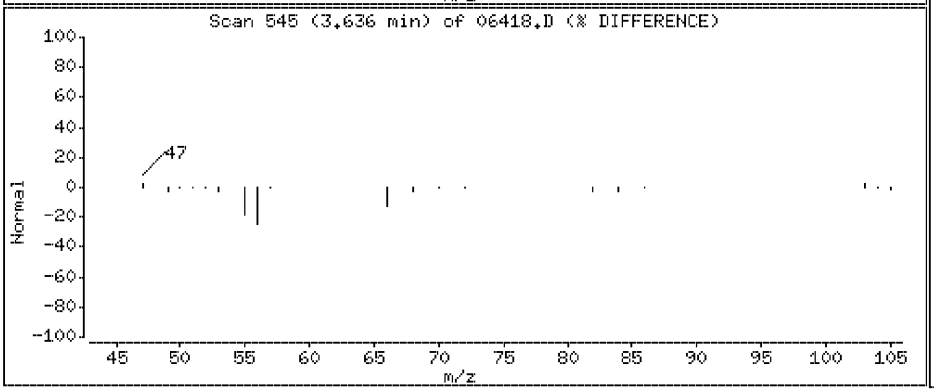
16 Trichlorofluoromethane

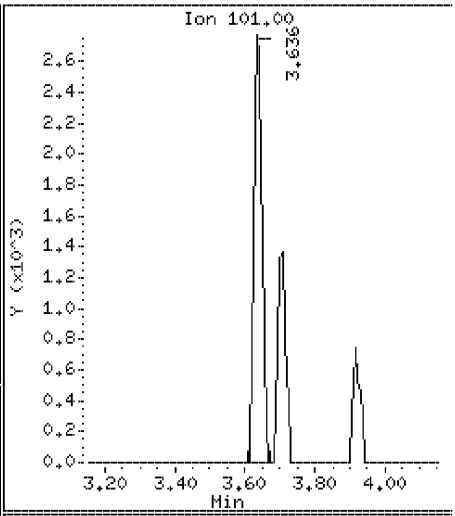
Concentration: 0.209 ppbv

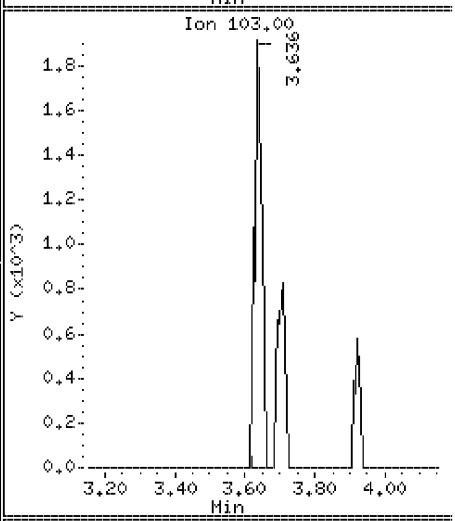


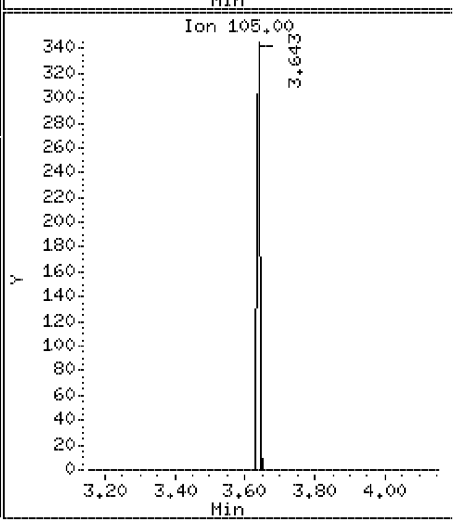












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

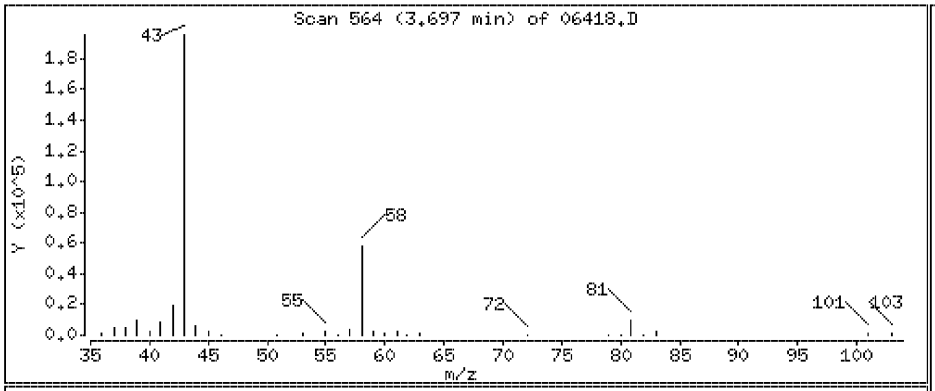
Operator: NCK

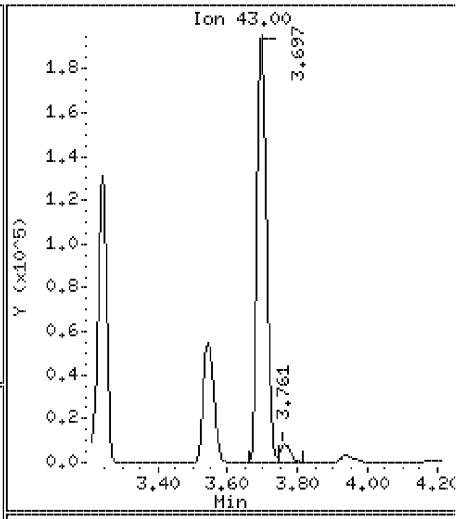
Column phase: J&W DB-5

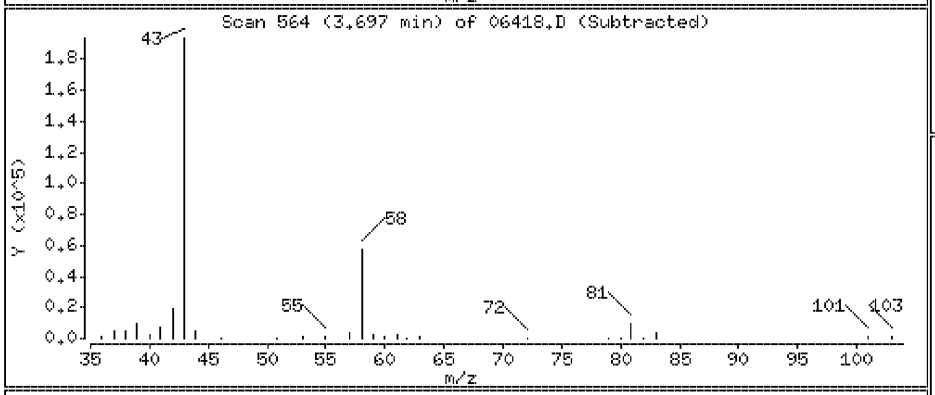
Column diameter: 0.32

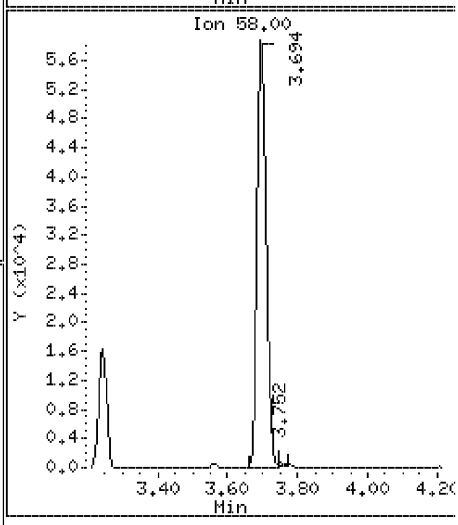
18 Acetone

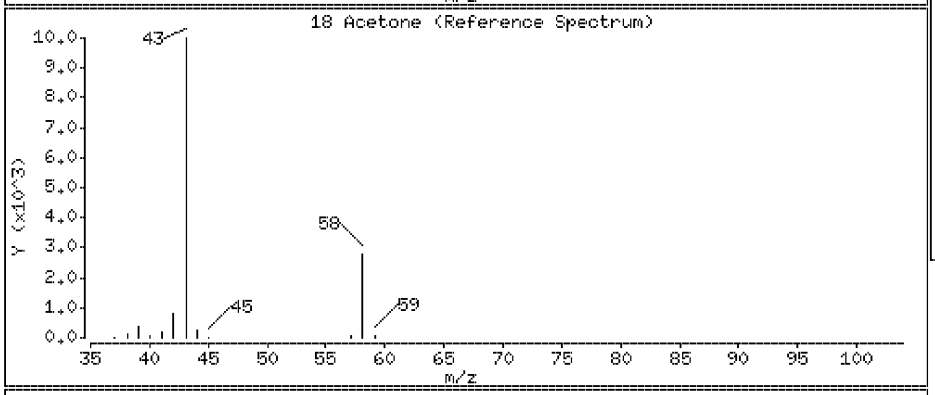
Concentration: 30.7 ppbv

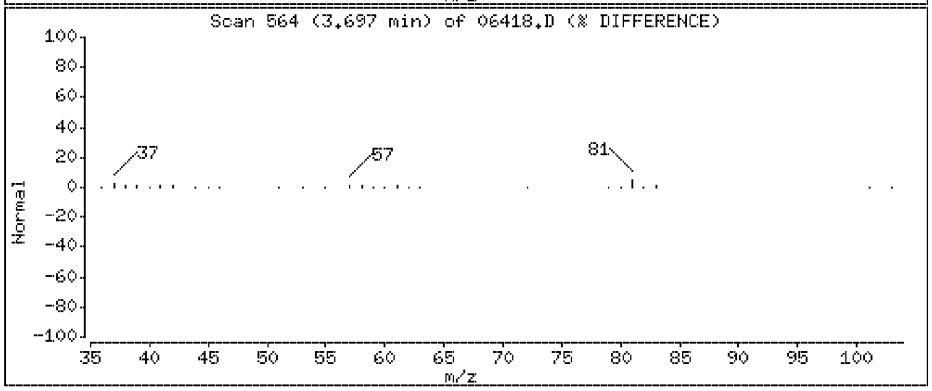












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

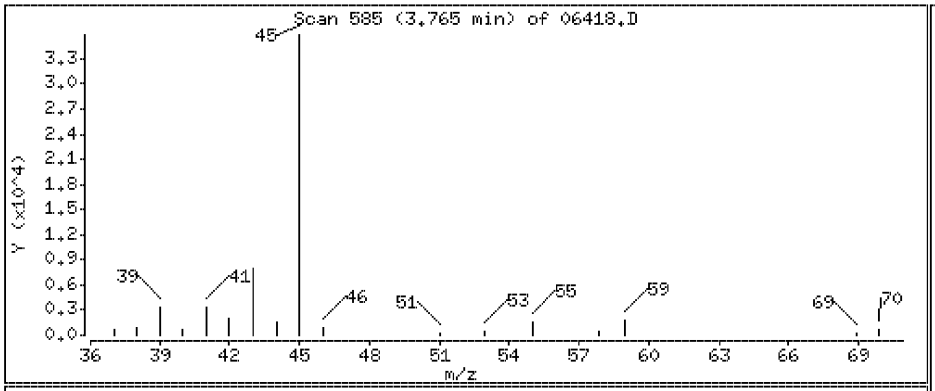
Operator: NCK

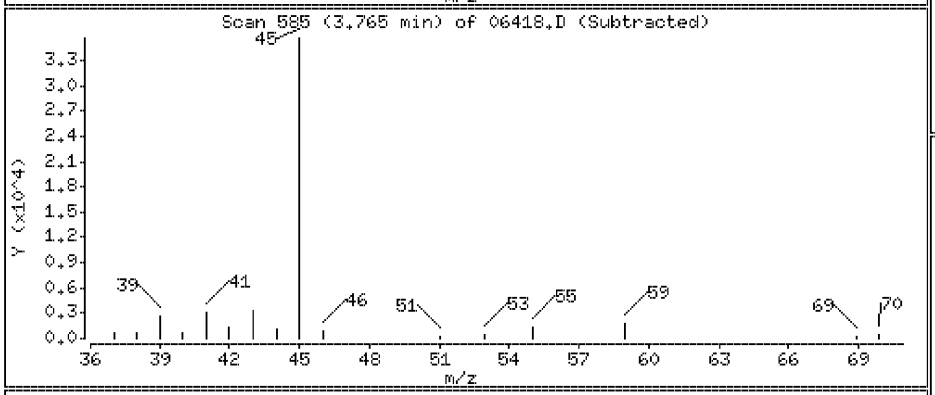
Column phase: J&W DB-5

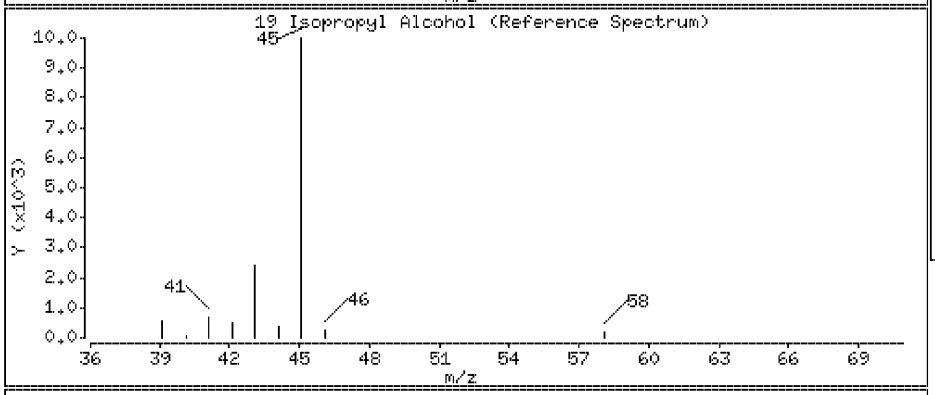
Column diameter: 0.32

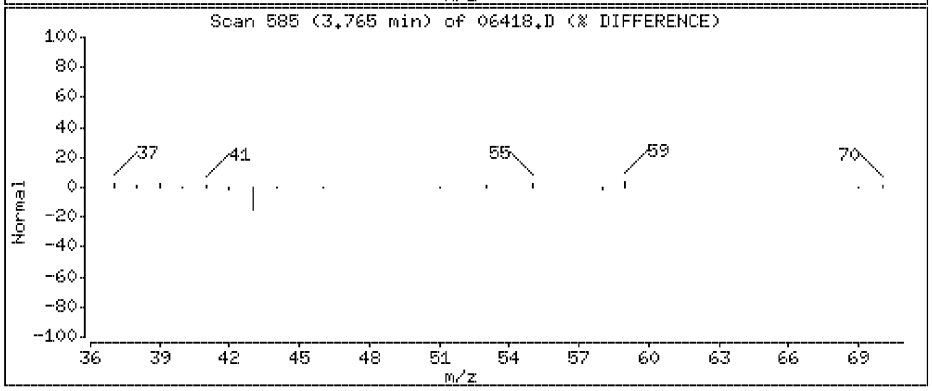
19 Isopropyl Alcohol

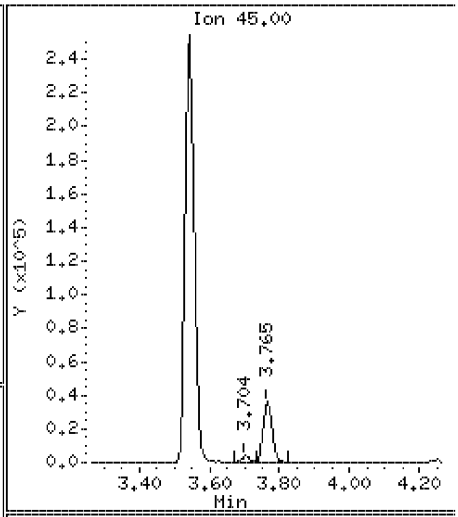
Concentration: 5.20 ppbv

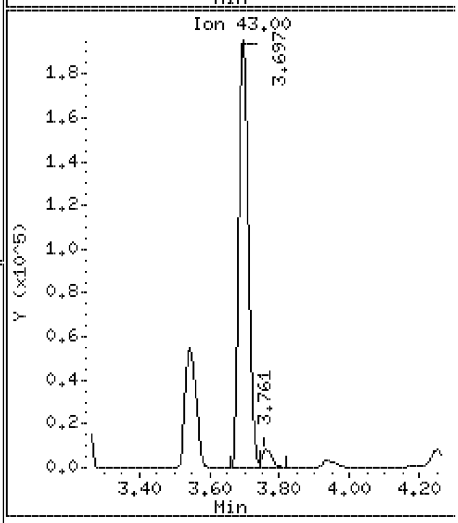












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

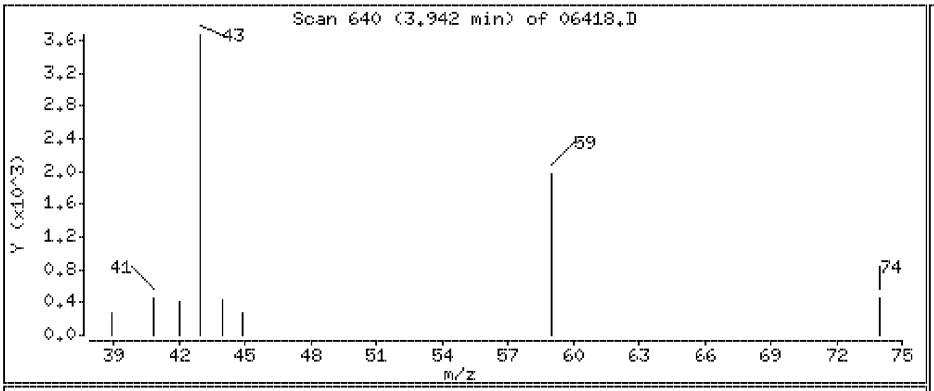
Operator: NCK

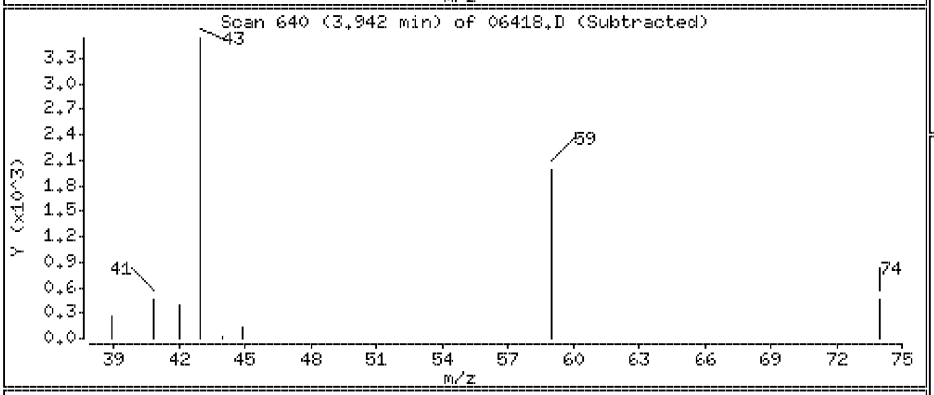
Column phase: J&W DB-5

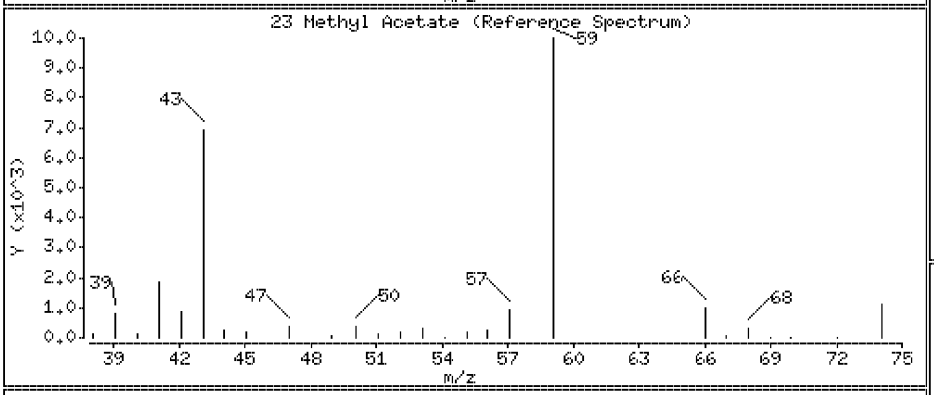
Column diameter: 0.32

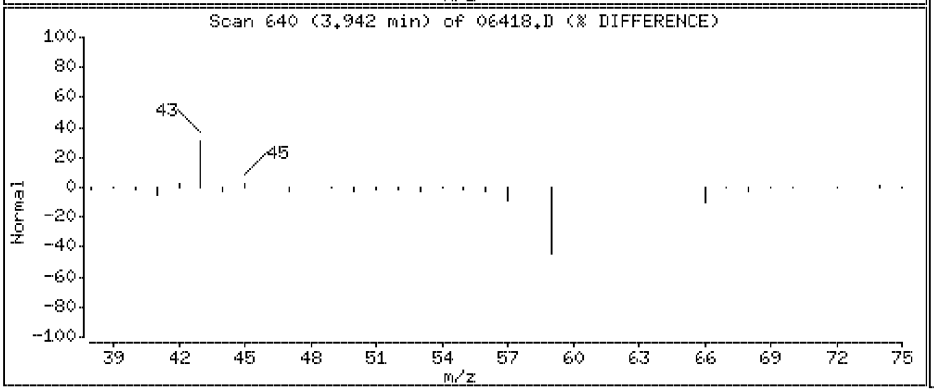
23 Methyl Acetate

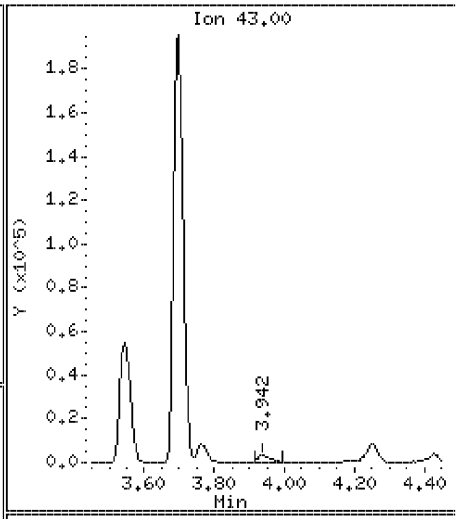
Concentration: 0.476 ppbv

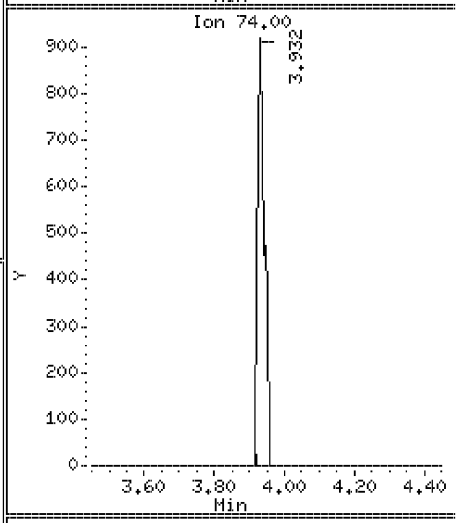


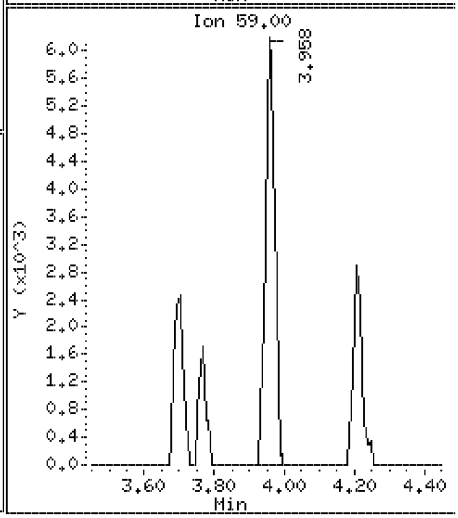












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

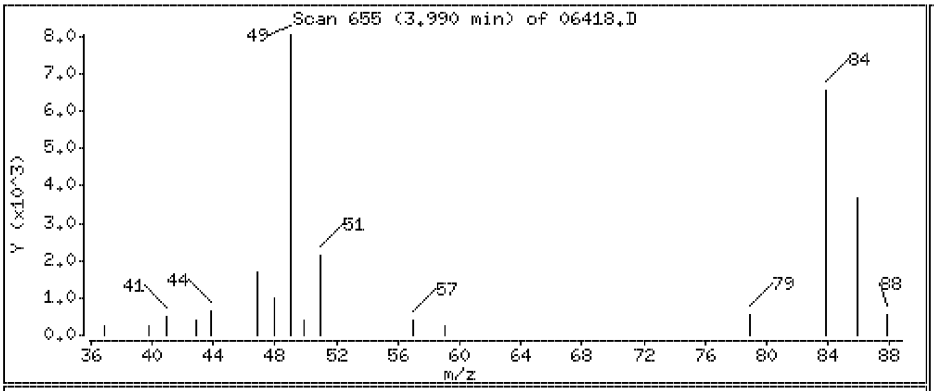
Operator: NCK

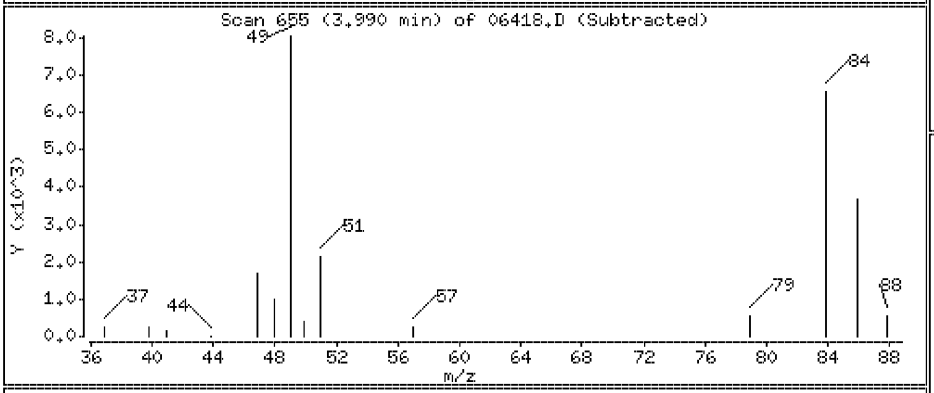
Column phase: J&W DB-5

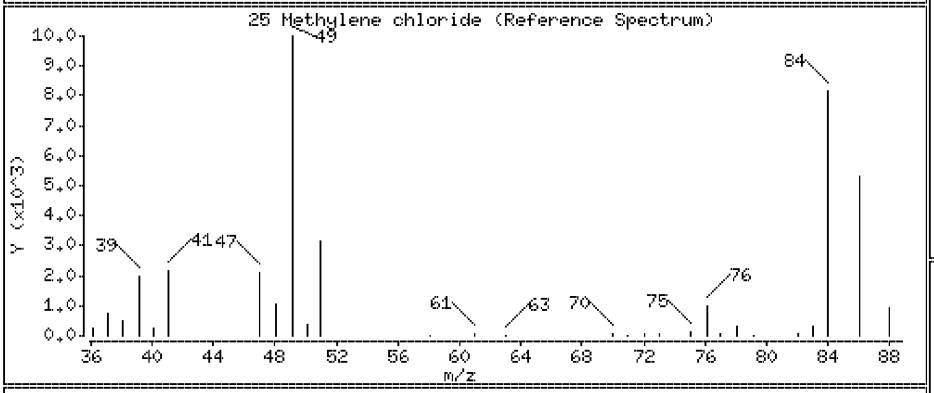
Column diameter: 0.32

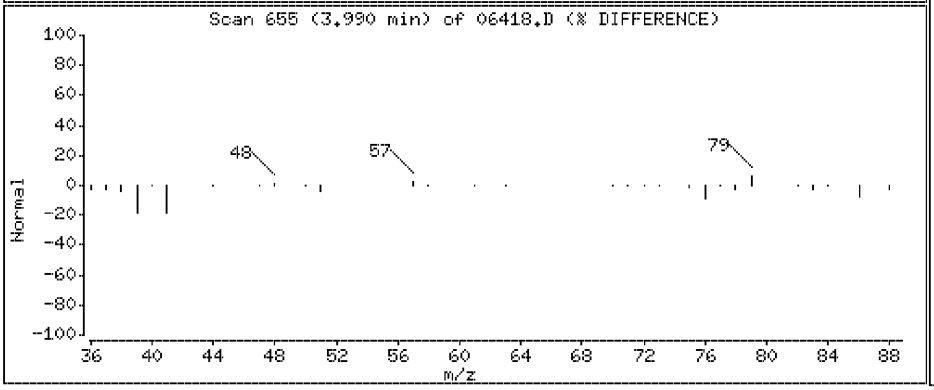
25 Methylene chloride

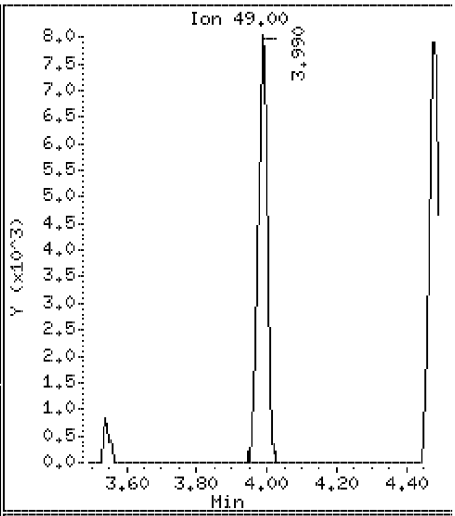
Concentration: 1.73 ppbv

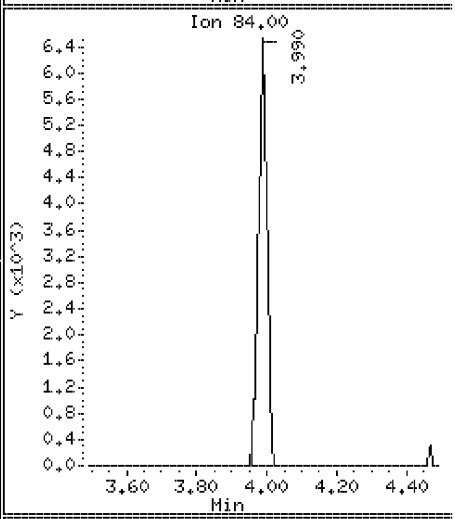


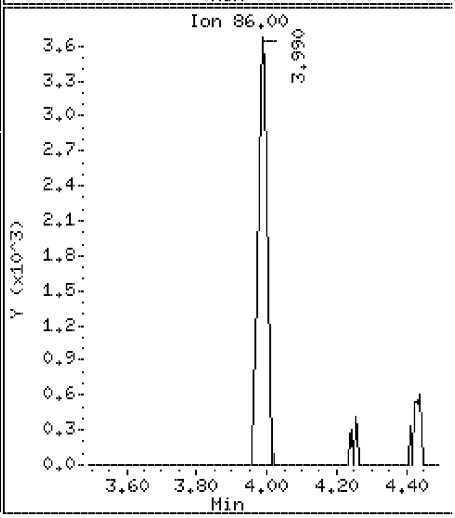












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

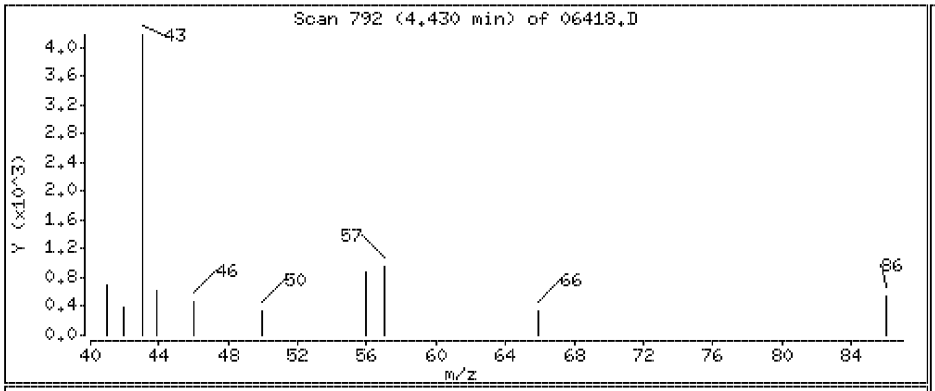
Operator: NCK

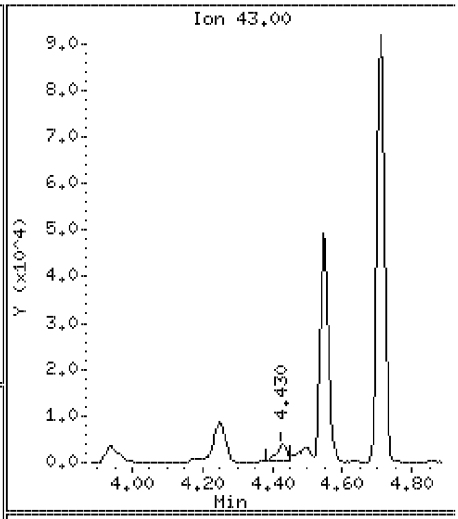
Column phase: J&W DB-5

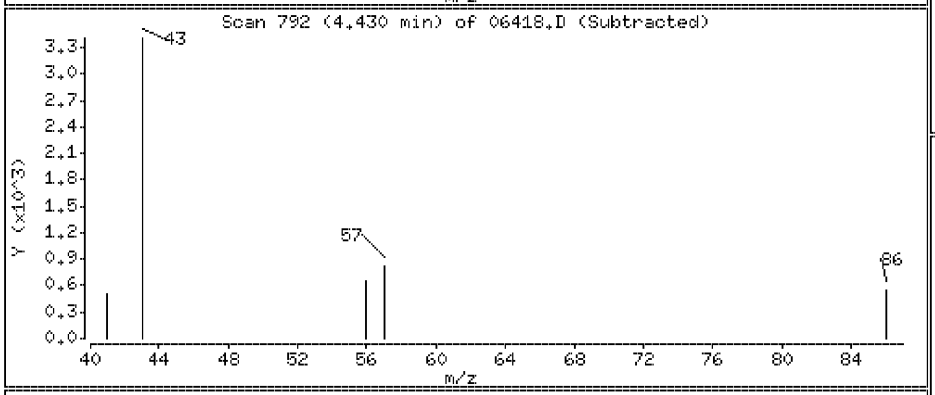
Column diameter: 0.32

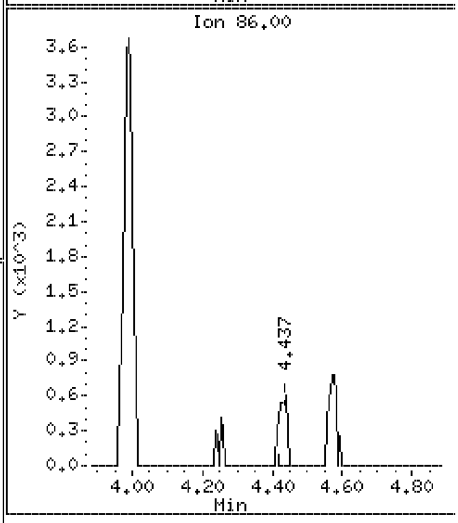
30 Vinyl Acetate

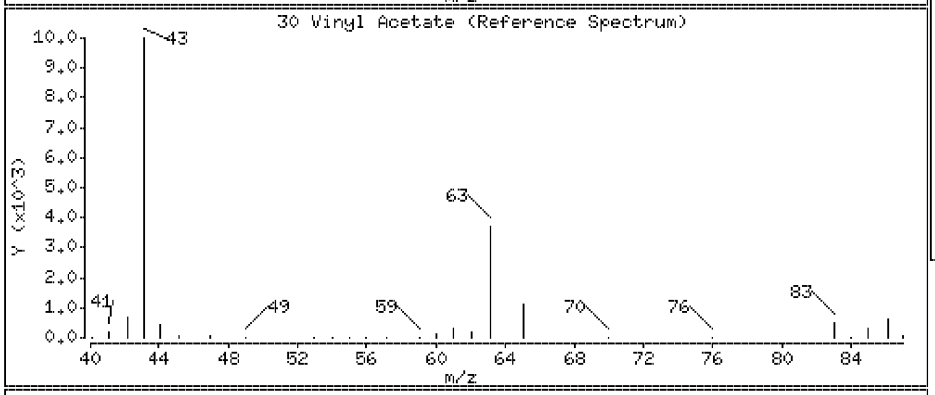
Concentration: 0.685 ppbv

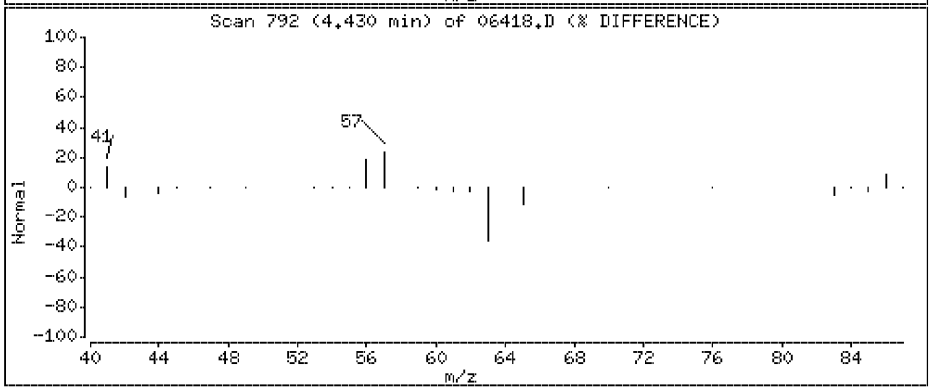












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

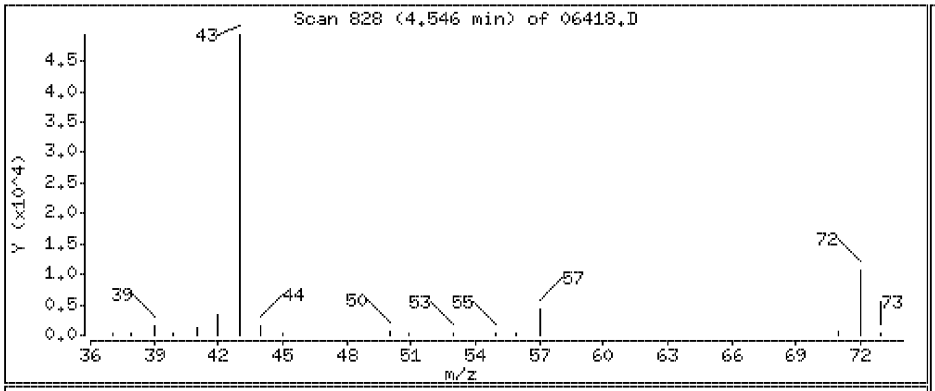
Operator: NCK

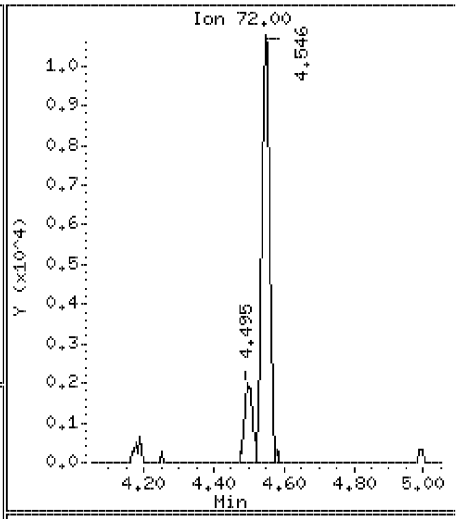
Column phase: J&W DB-5

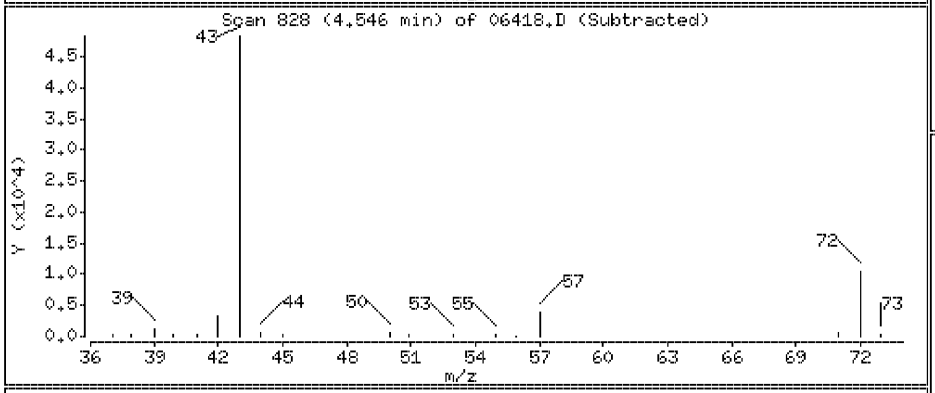
Column diameter: 0.32

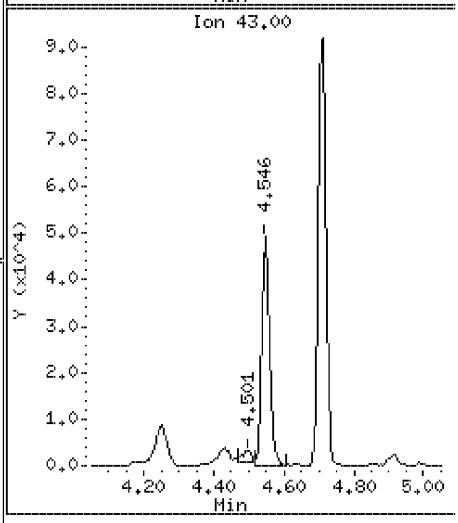
33 Methyl Ethyl Ketone

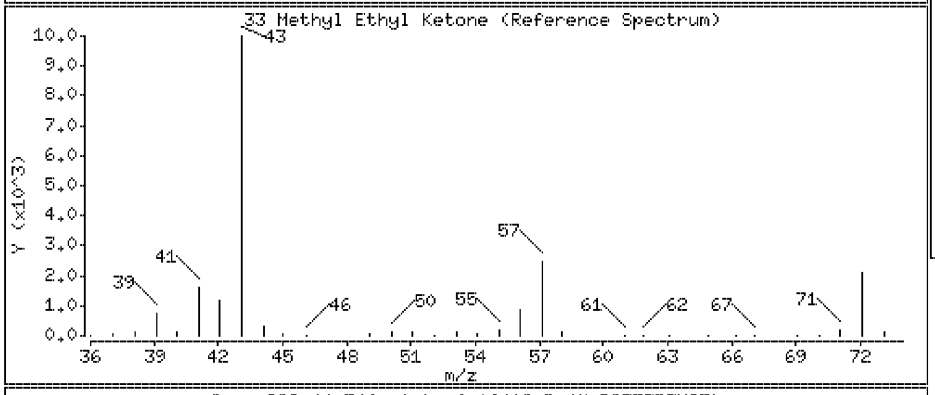
Concentration: 4.68 ppbv

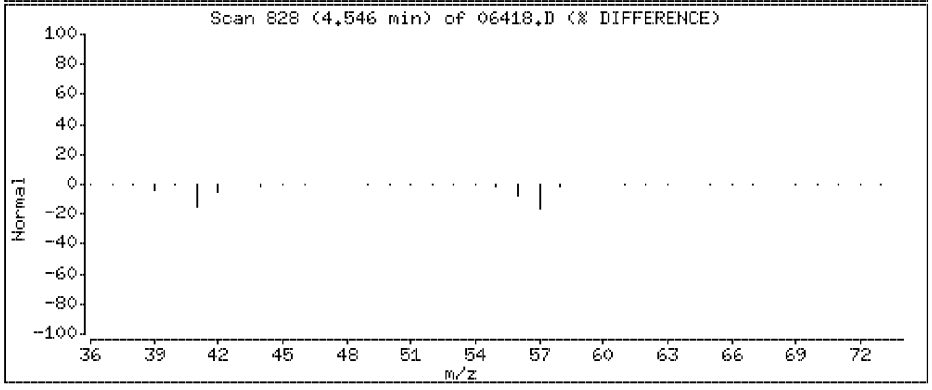












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

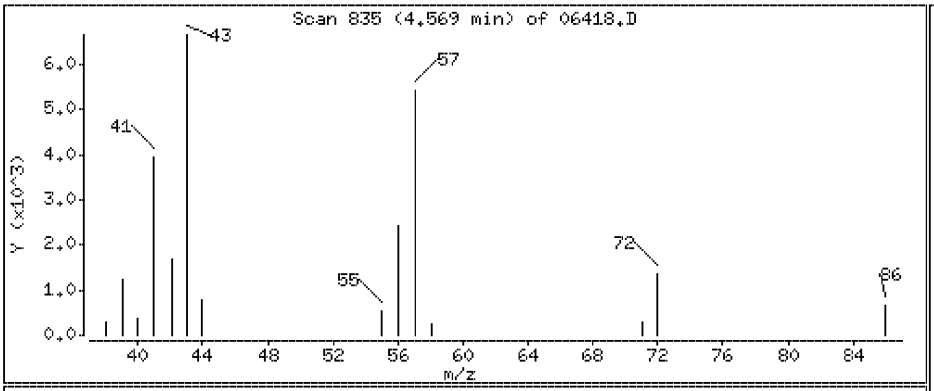
Operator: NCK

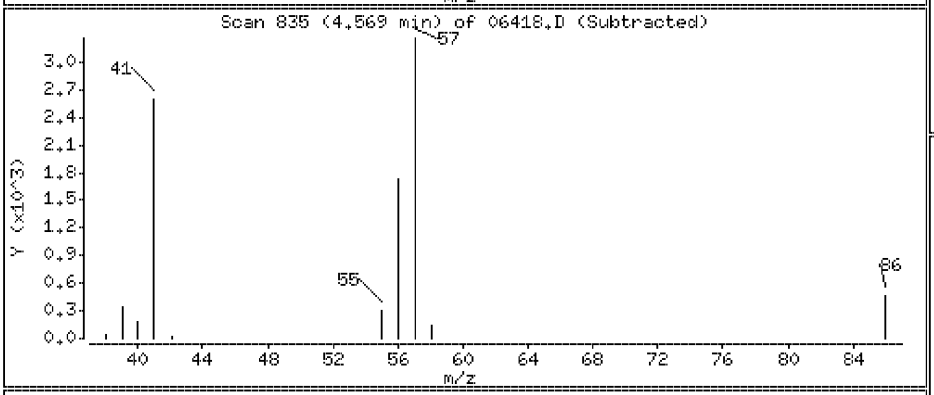
Column phase: J&W DB-5

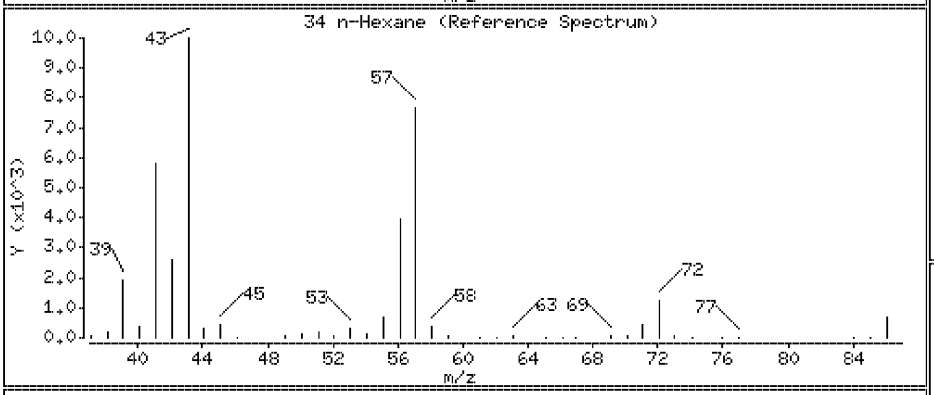
Column diameter: 0.32

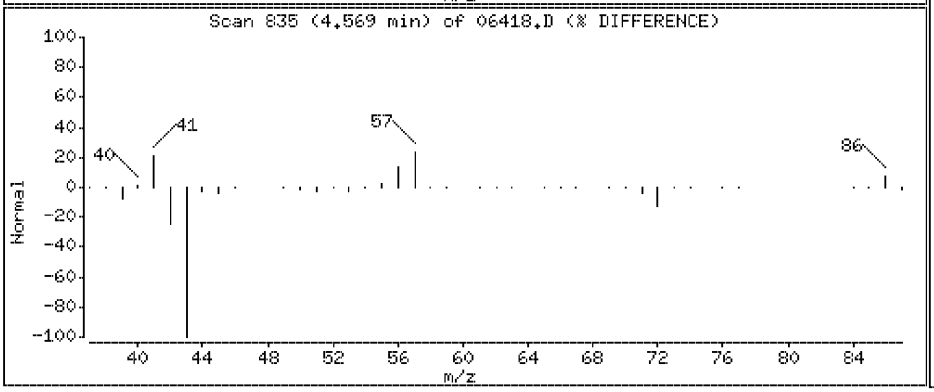
34 n-Hexane

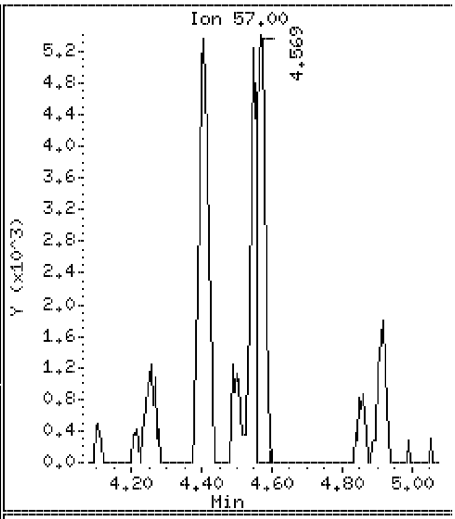
Concentration: 0.678 ppbv

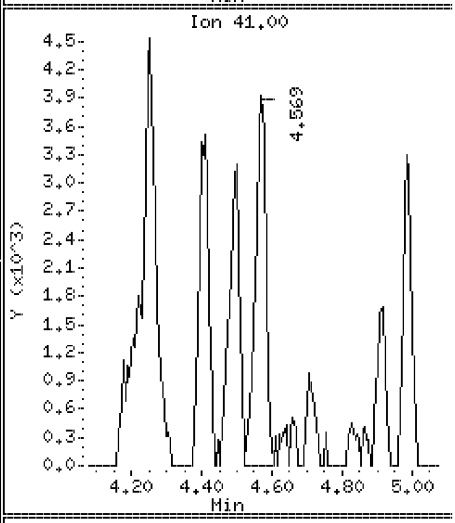


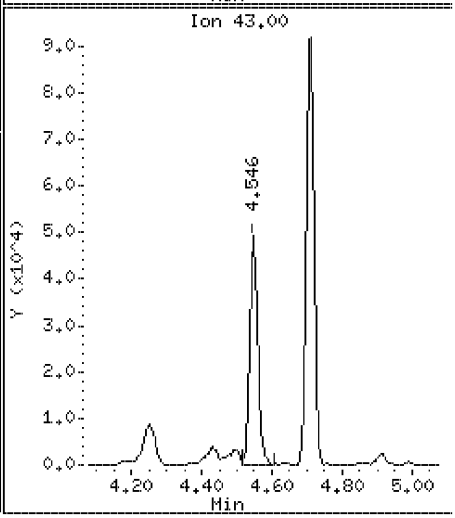












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

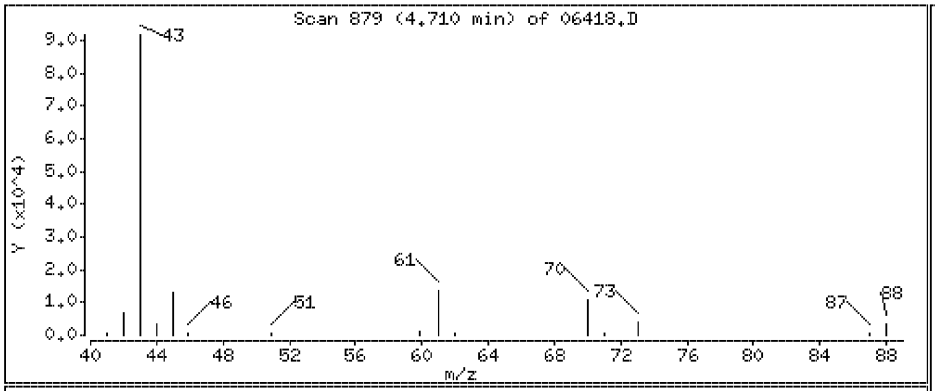
Operator: NCK

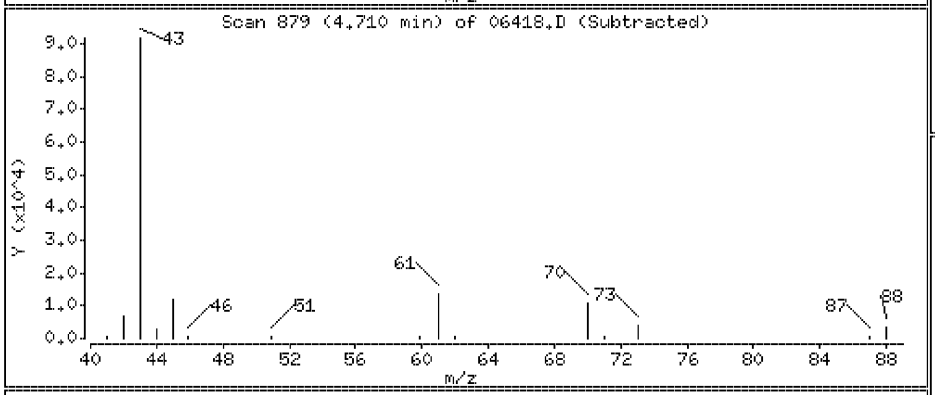
Column phase: J&W DB-5

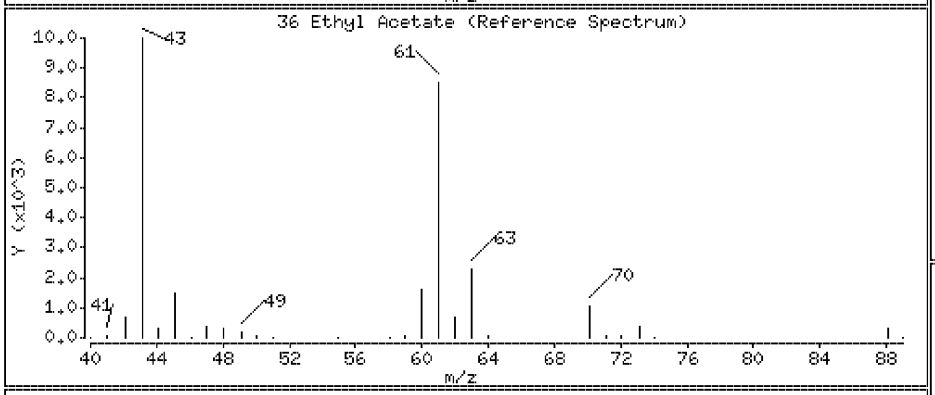
Column diameter: 0.32

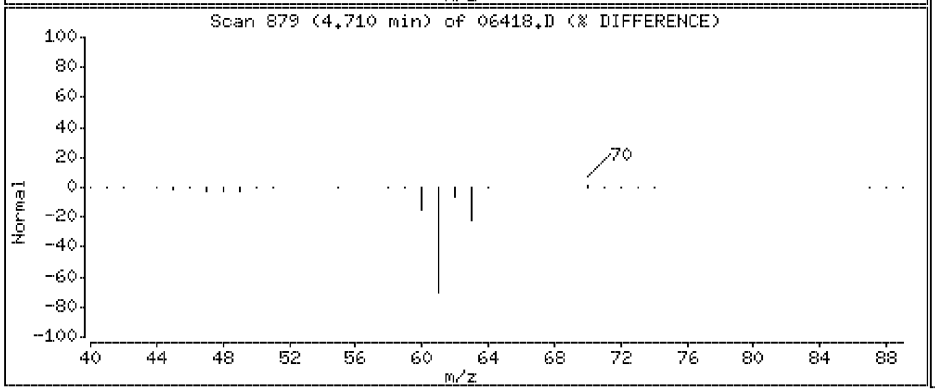
36 Ethyl Acetate

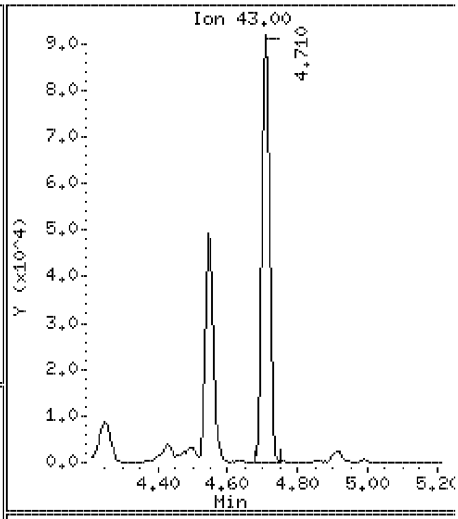
Concentration: 8.87 ppbv

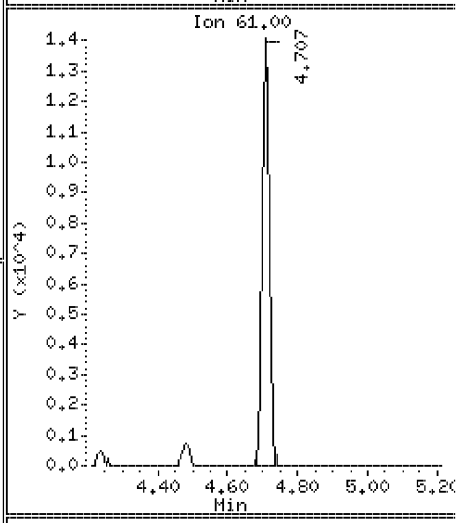


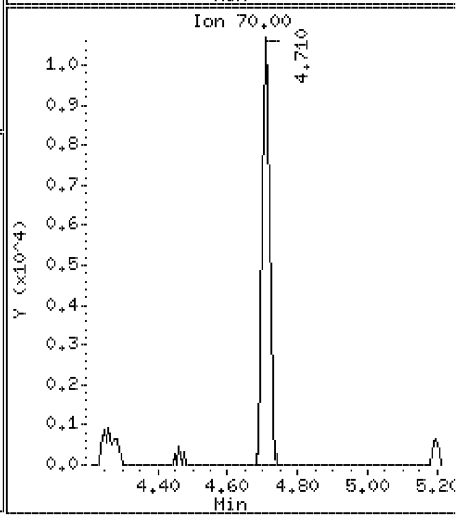












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

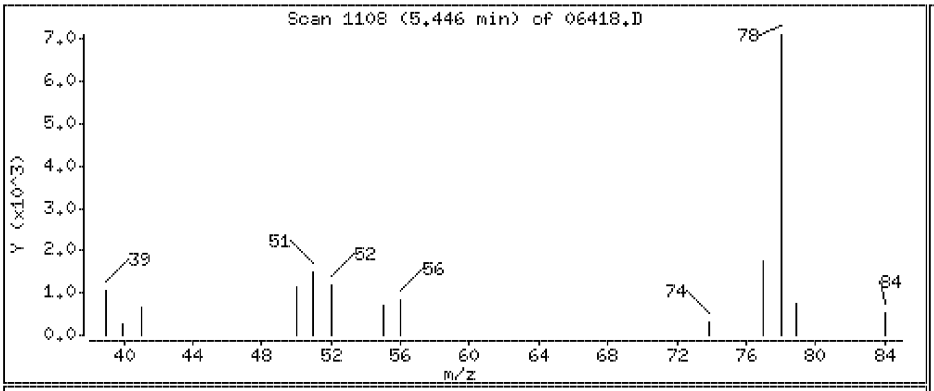
Operator: NCK

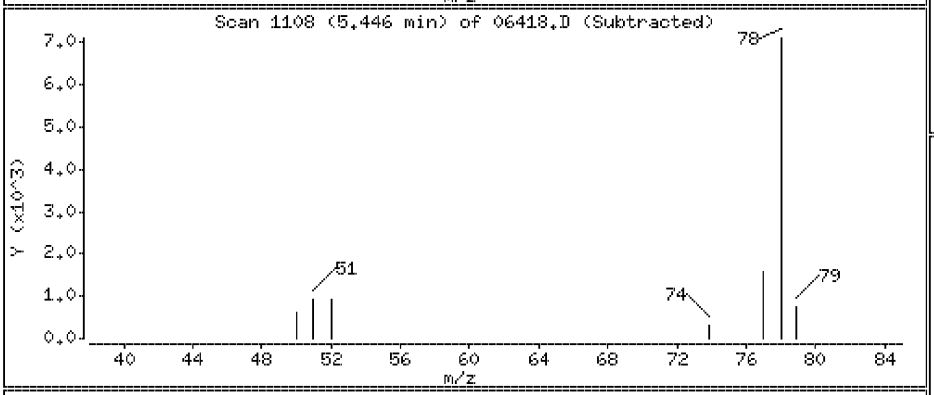
Column phase: J&W DB-5

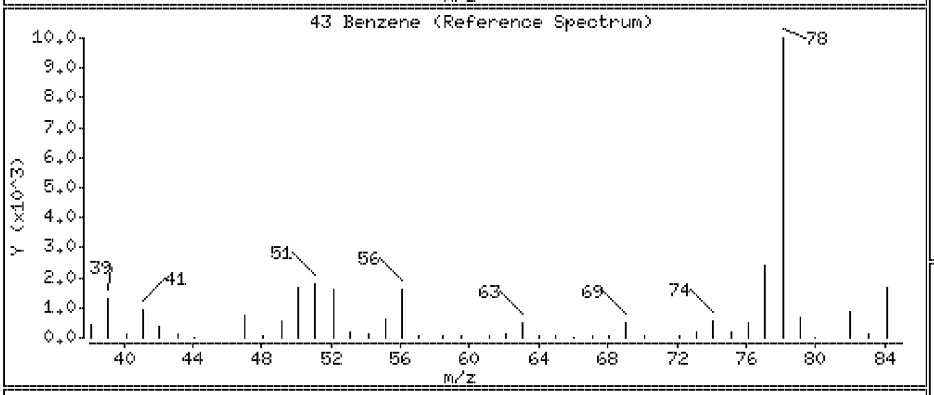
Column diameter: 0.32

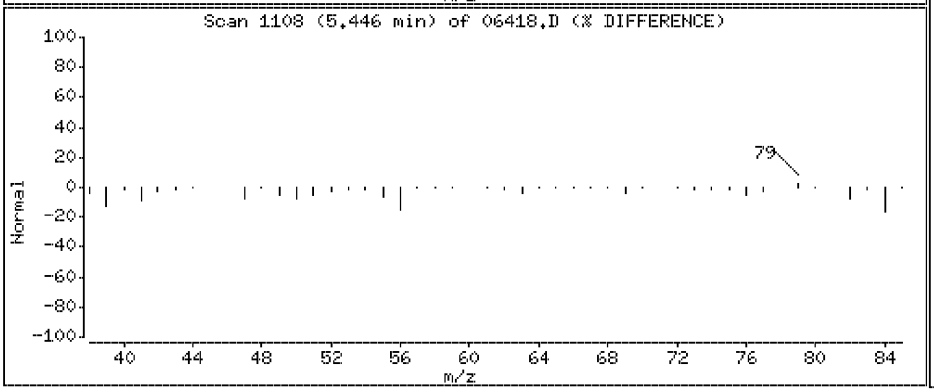
43 Benzene

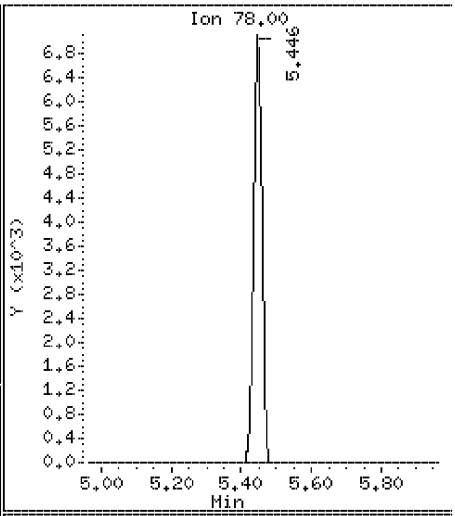
Concentration: 0.472 ppbv

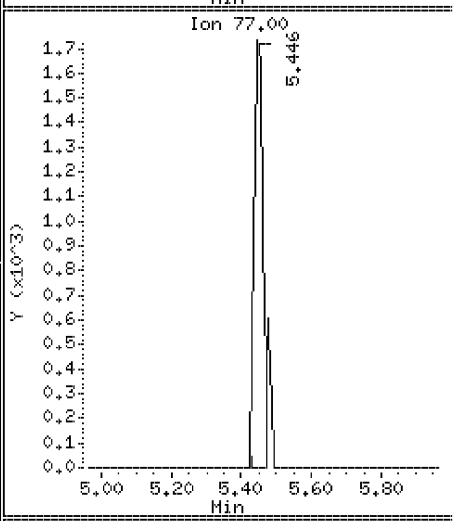


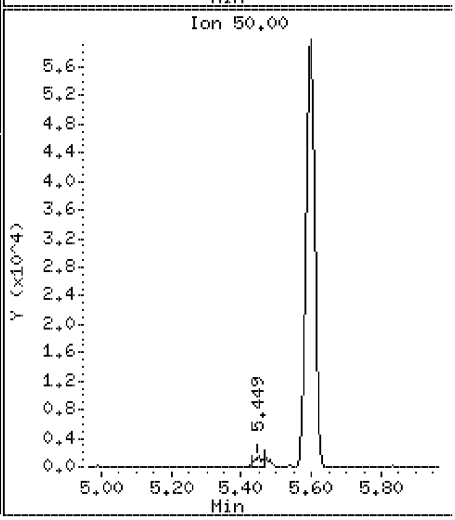












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

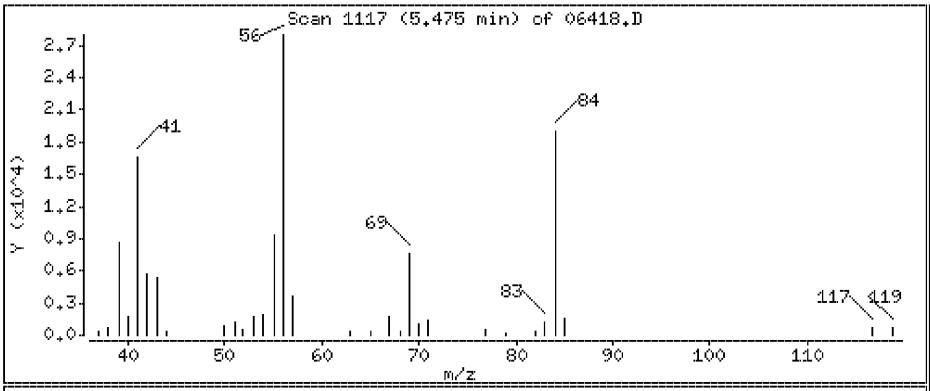
Operator: NCK

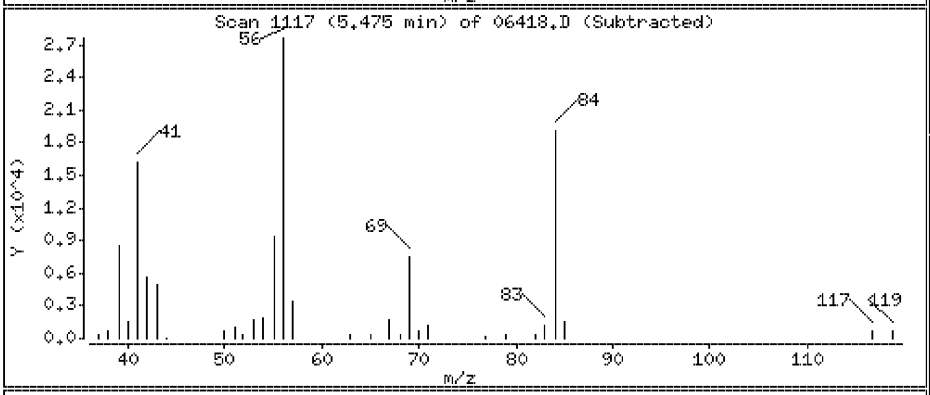
Column phase: J&W DB-5

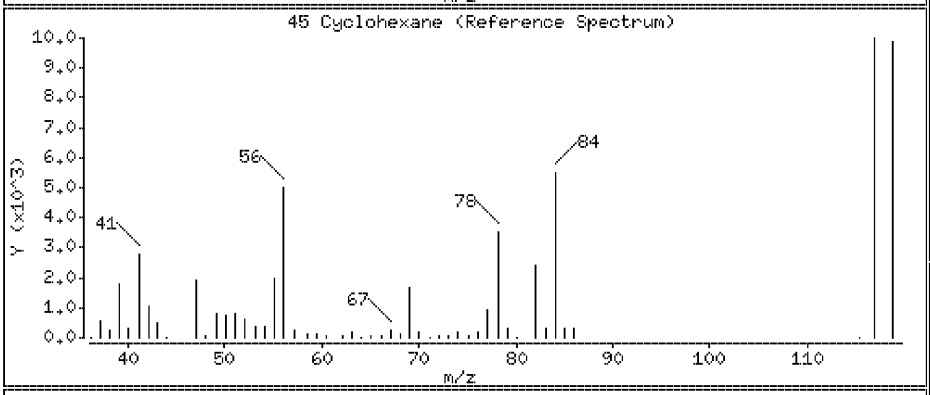
Column diameter: 0.32

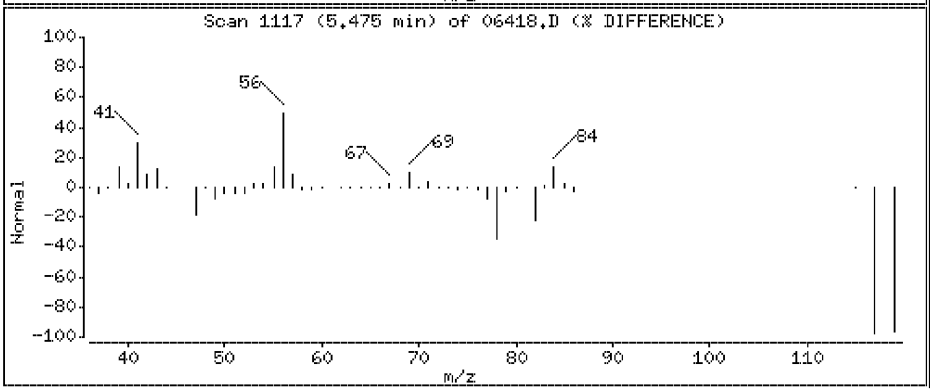
45 Cyclohexane

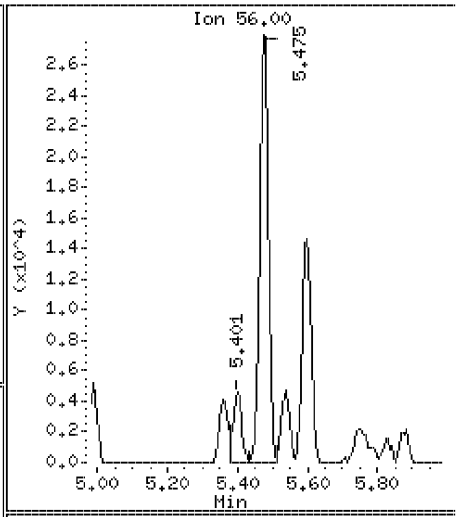
Concentration: 3.89 ppbv

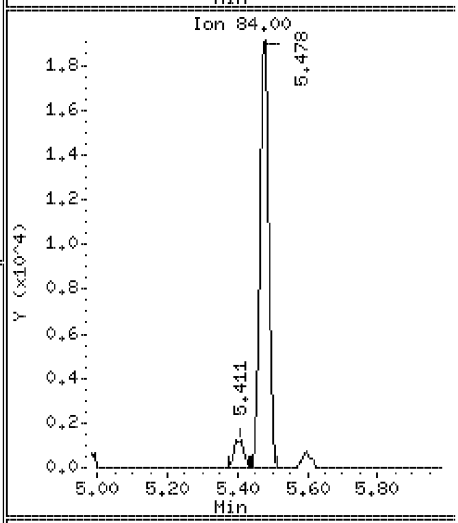


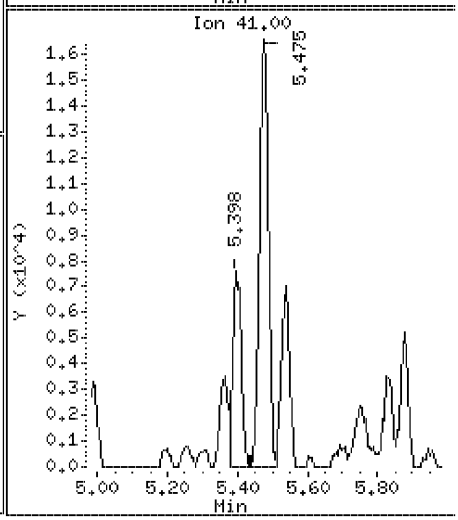












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

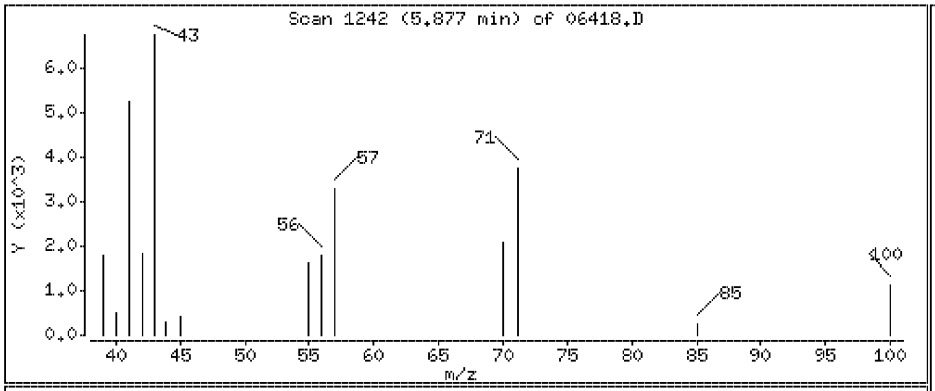
Operator: NCK

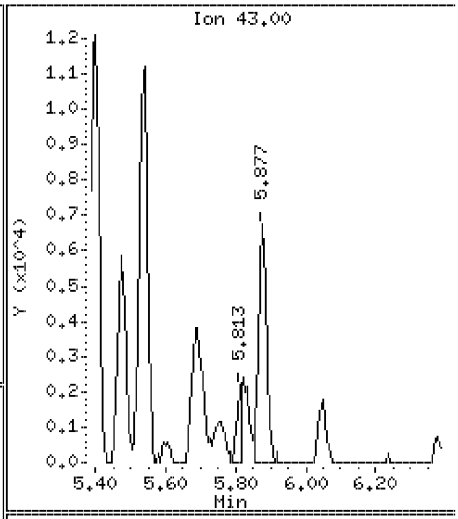
Column phase: J&W DB-5

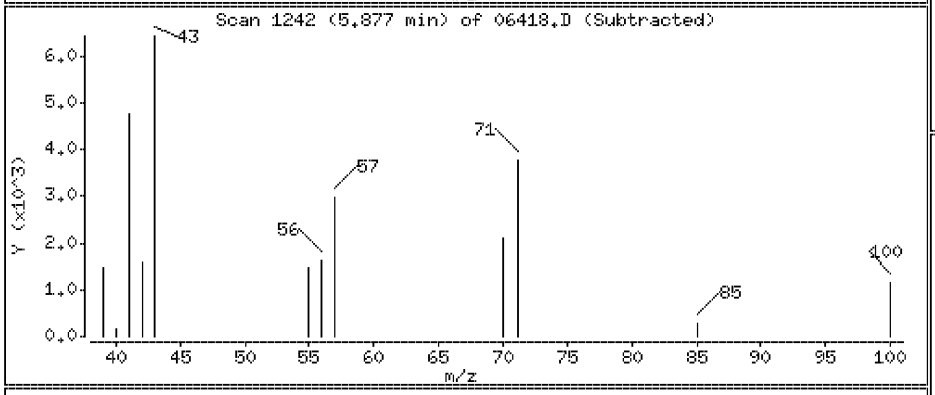
Column diameter: 0.32

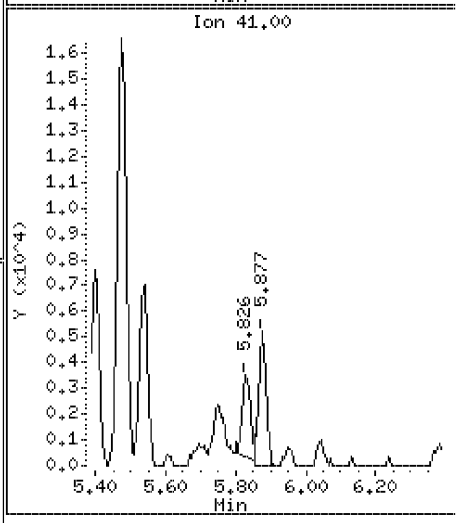
49 Heptane

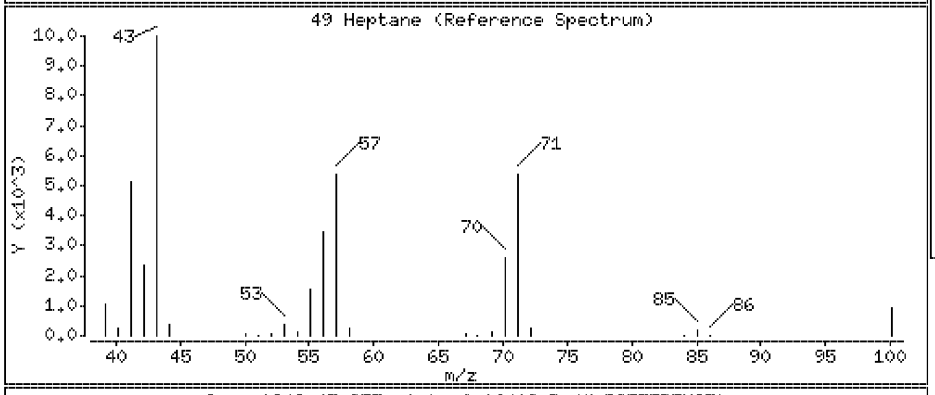
Concentration: 0.791 ppbv

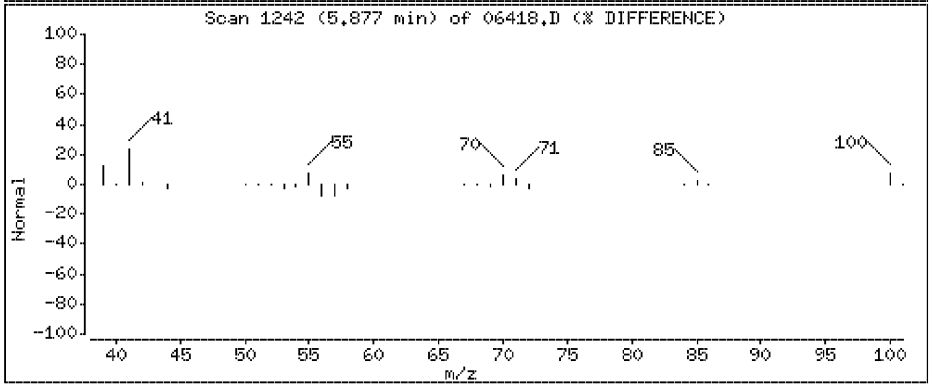












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

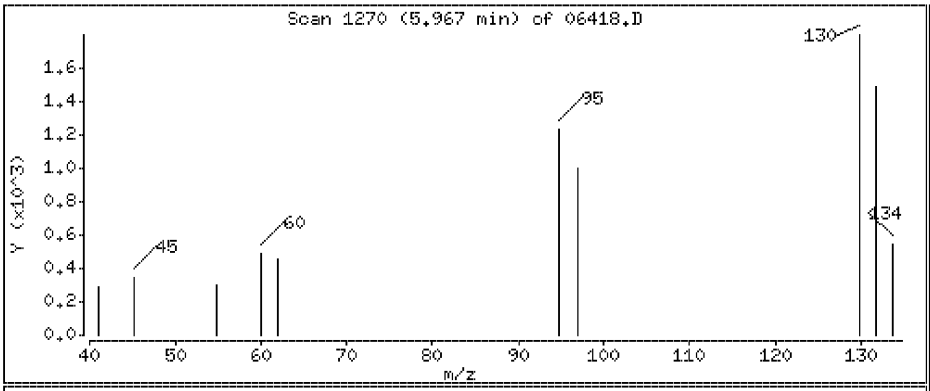
Operator: NCK

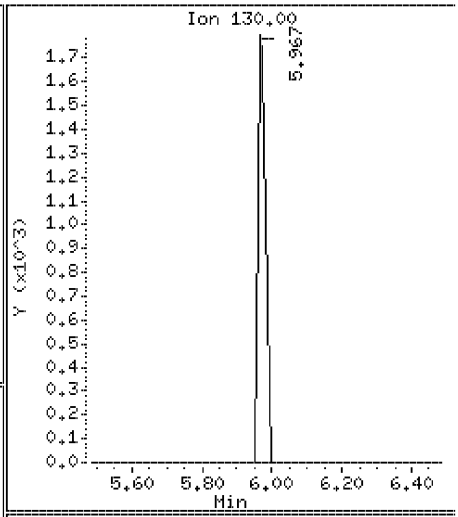
Column phase: J&W DB-5

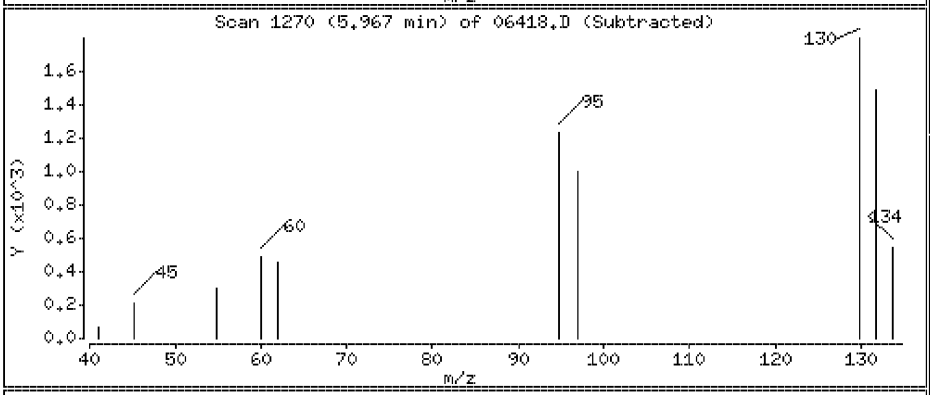
Column diameter: 0.32

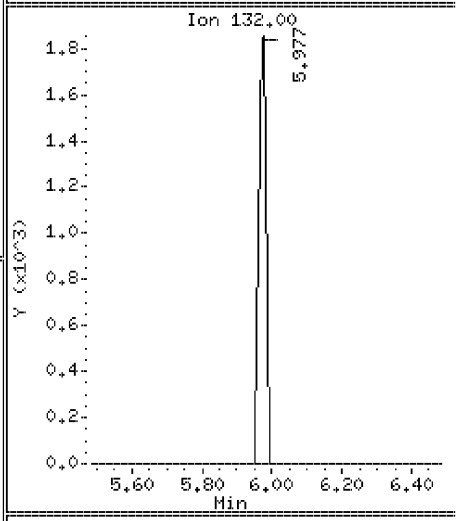
51 Trichloroethene

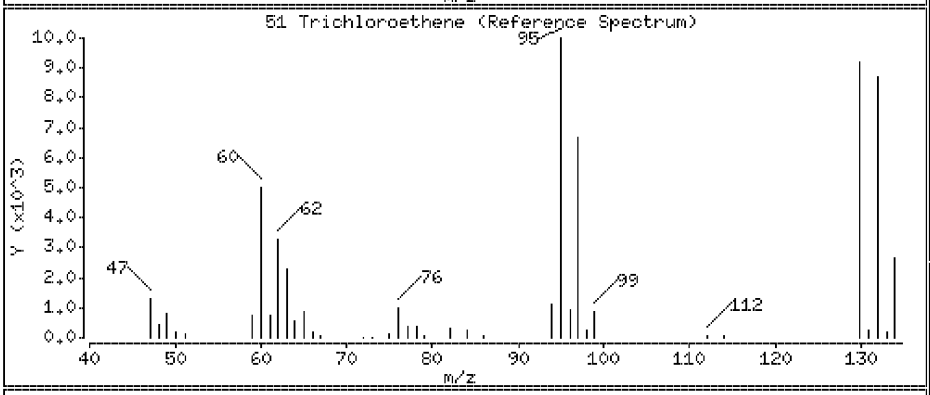
Concentration: 0.211 ppbv

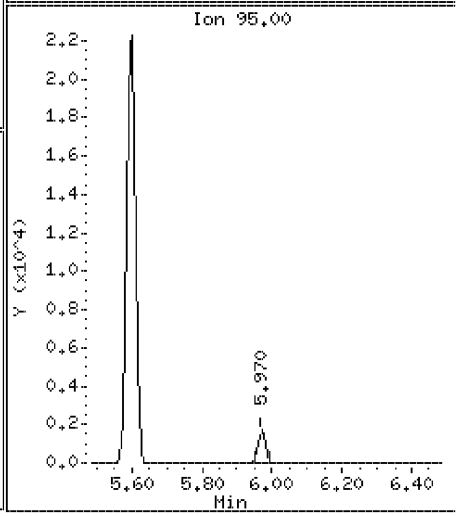


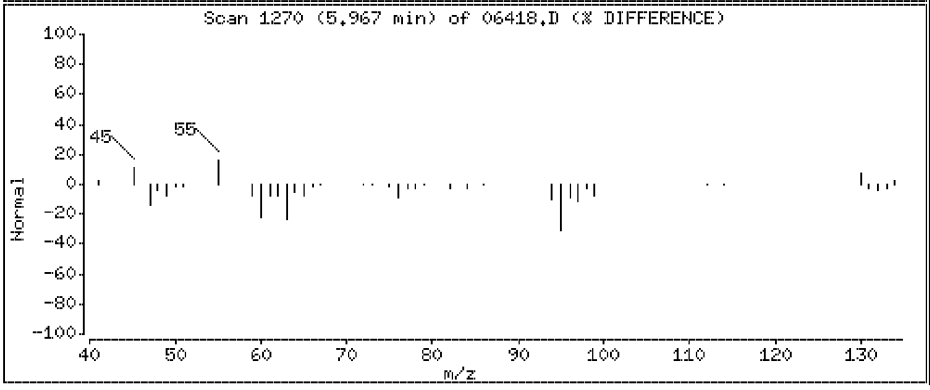












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

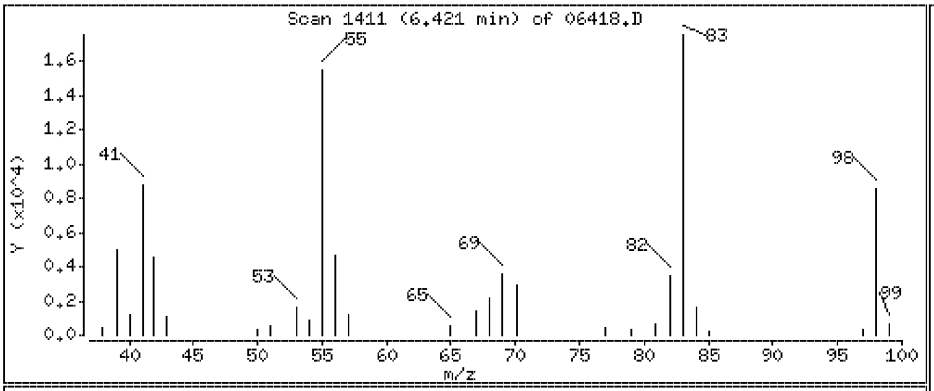
Operator: NCK

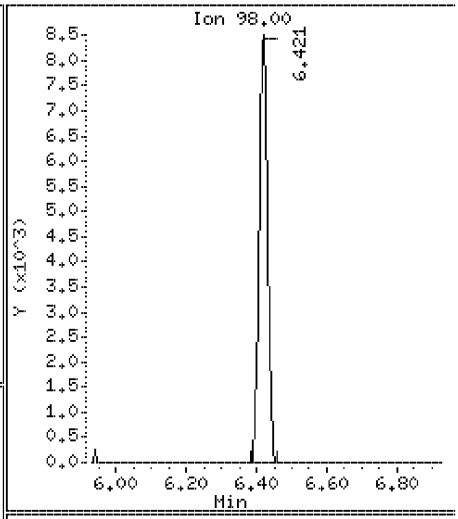
Column phase: J&W DB-5

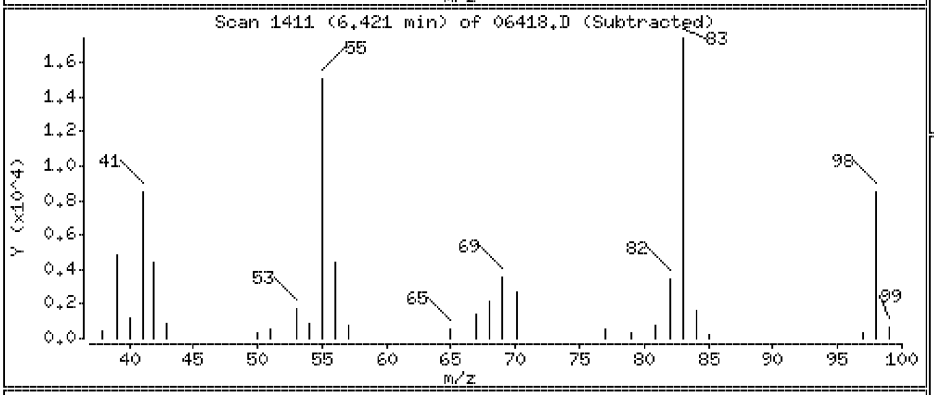
Column diameter: 0.32

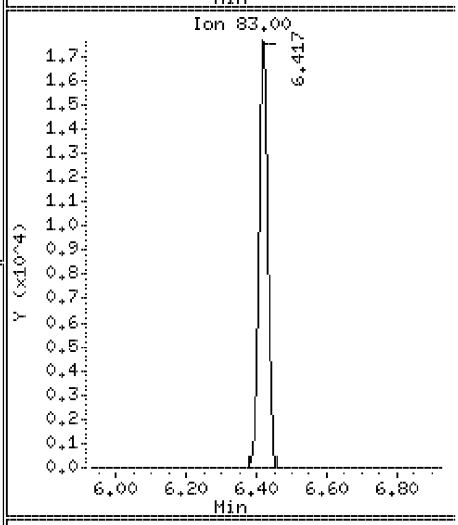
55 Methylcyclohexane

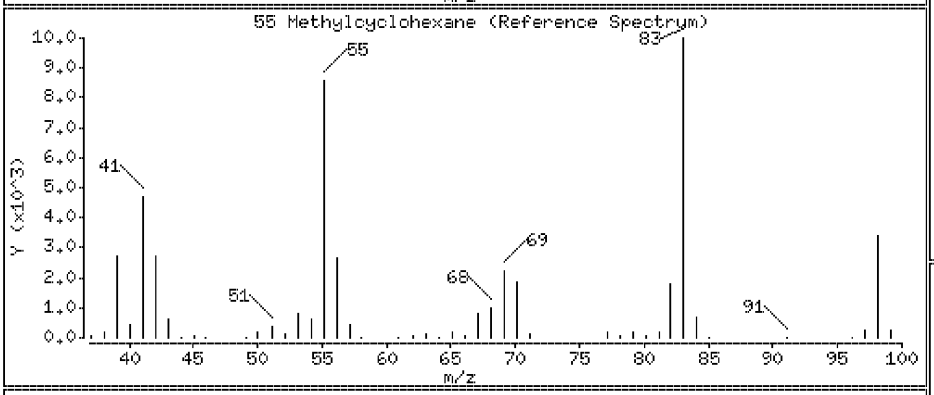
Concentration: 2.07 ppbv

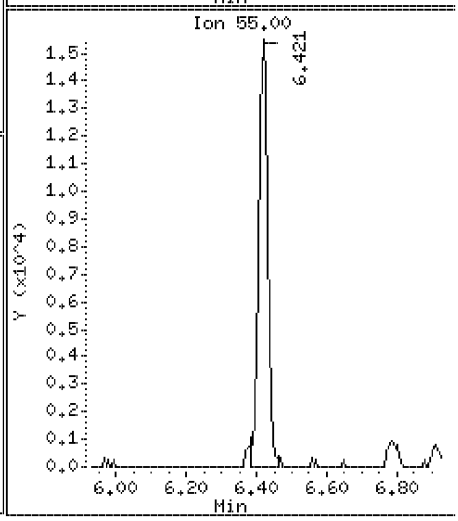


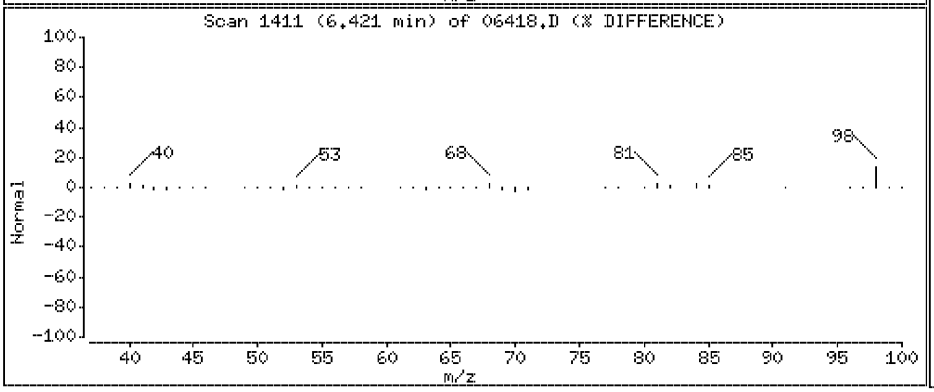












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

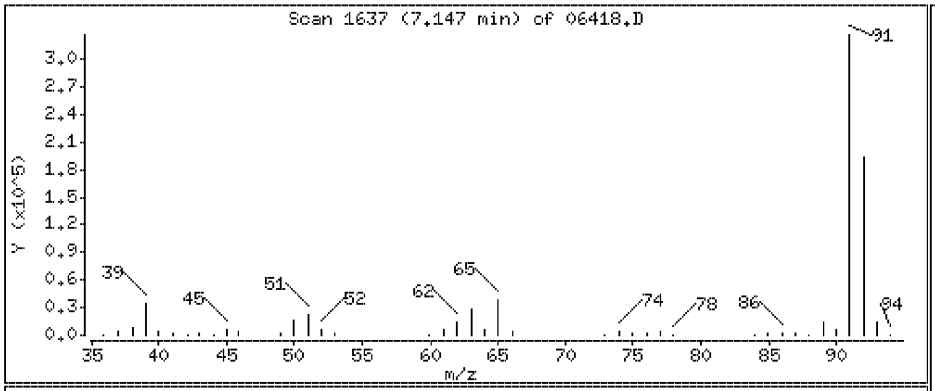
Operator: NCK

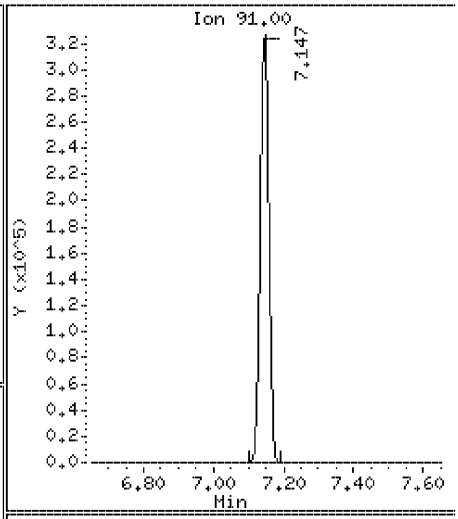
Column phase: J&W DB-5

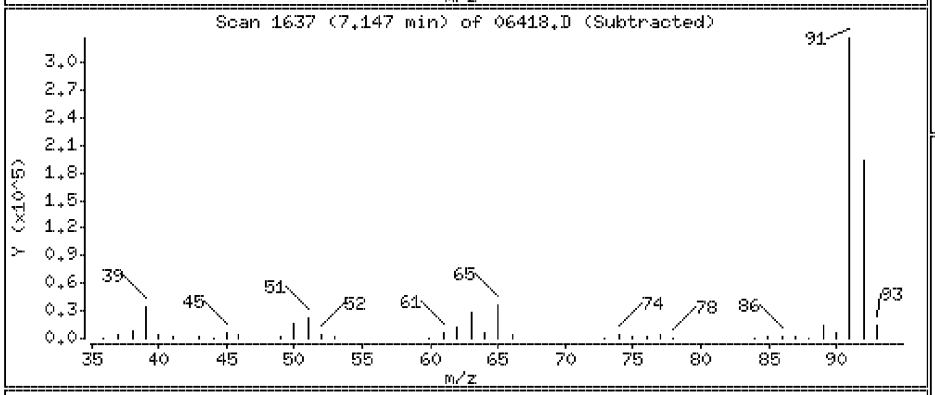
Column diameter: 0.32

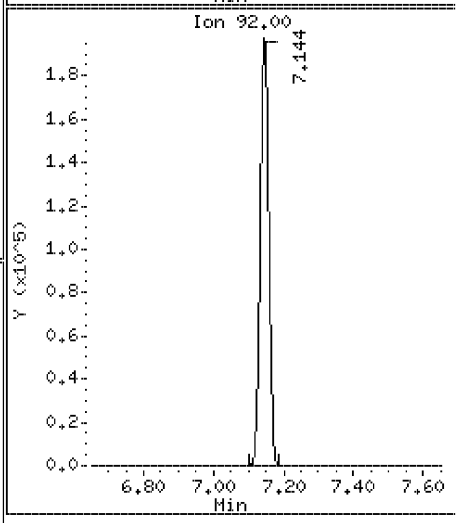
61 Toluene

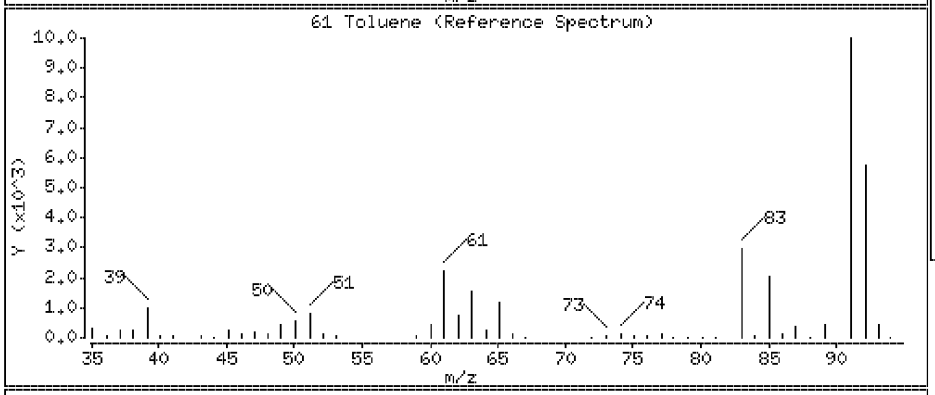
Concentration: 18.1 ppbv

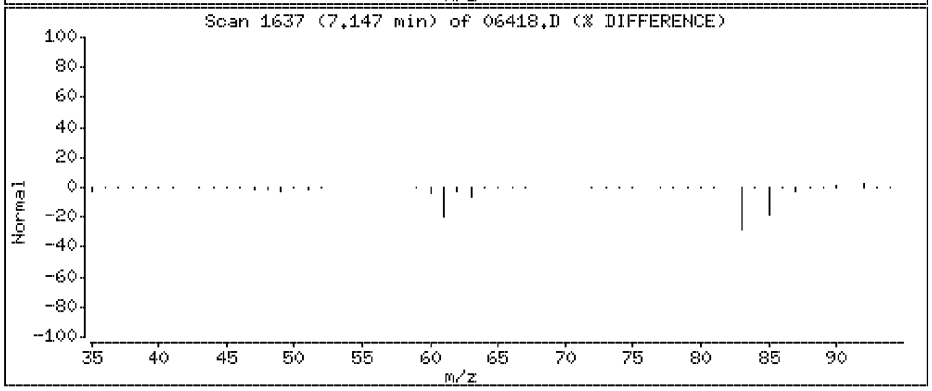












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

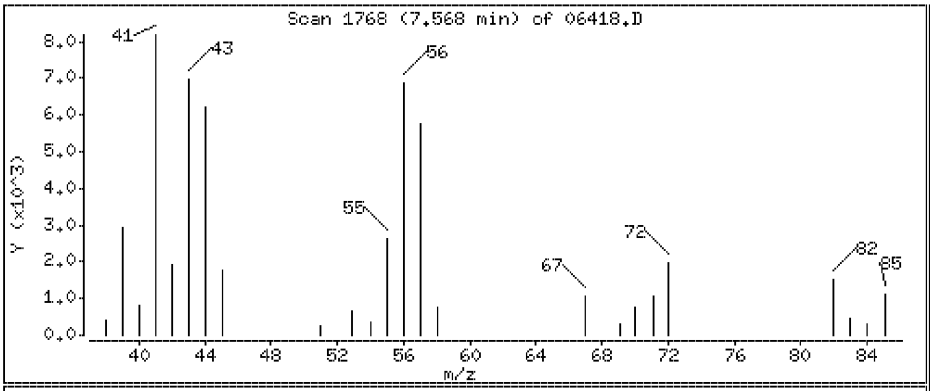
Operator: NCK

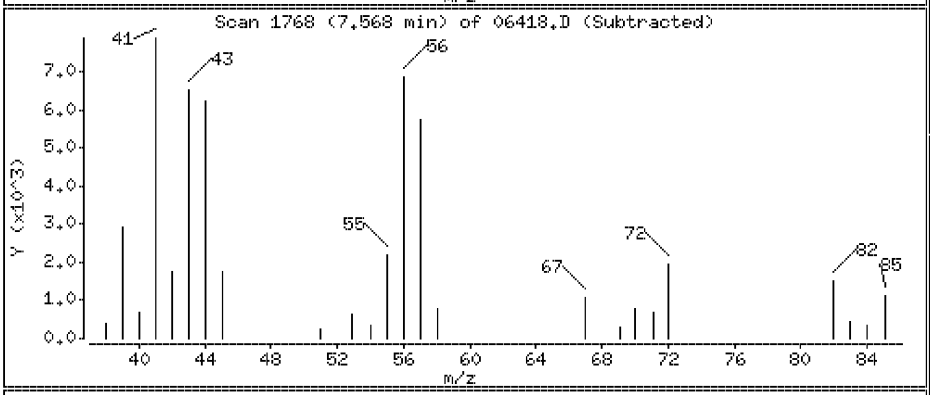
Column phase: J&W DB-5

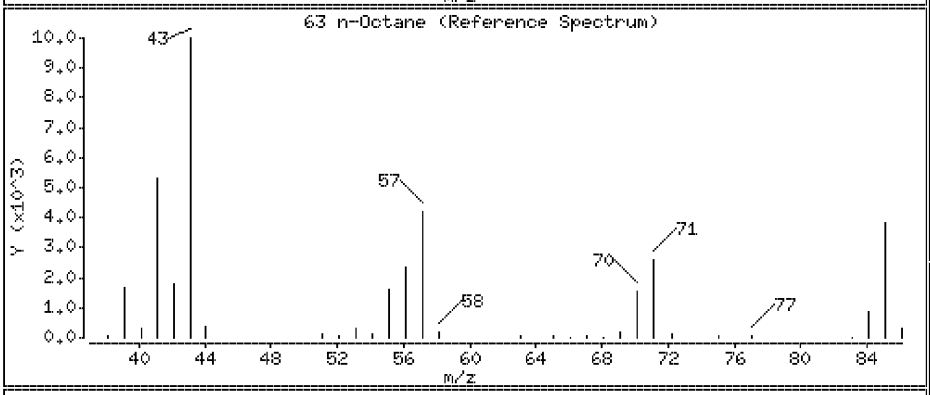
Column diameter: 0.32

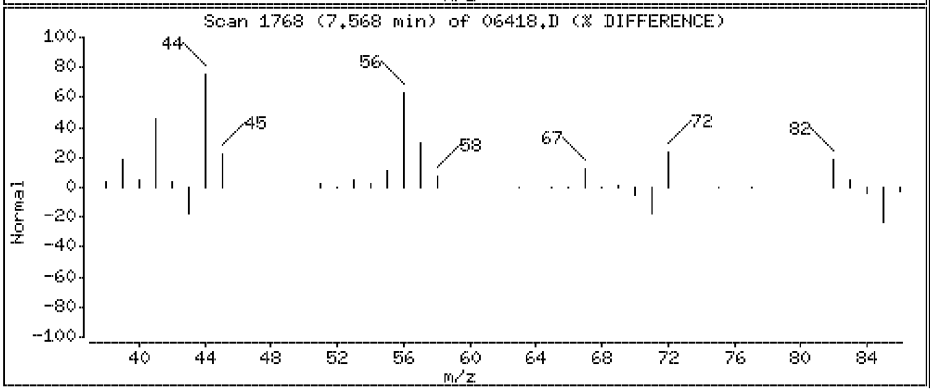
63 n-Octane

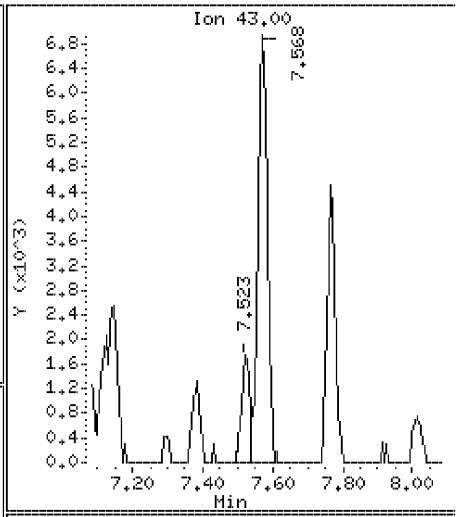
Concentration: 0.775 ppbv

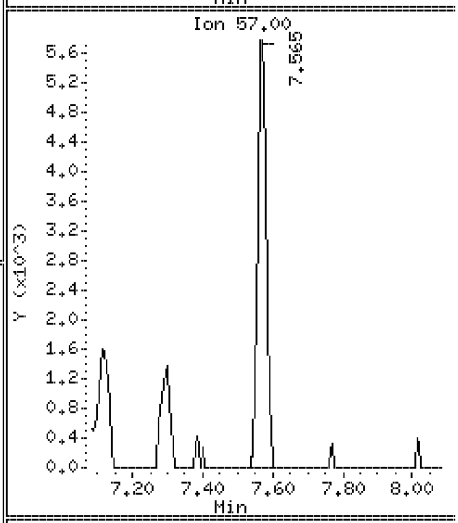


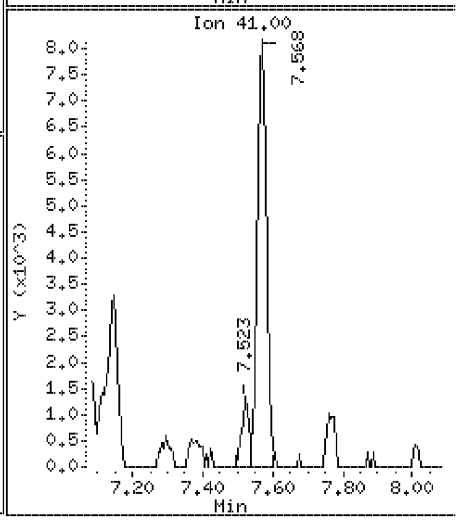












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

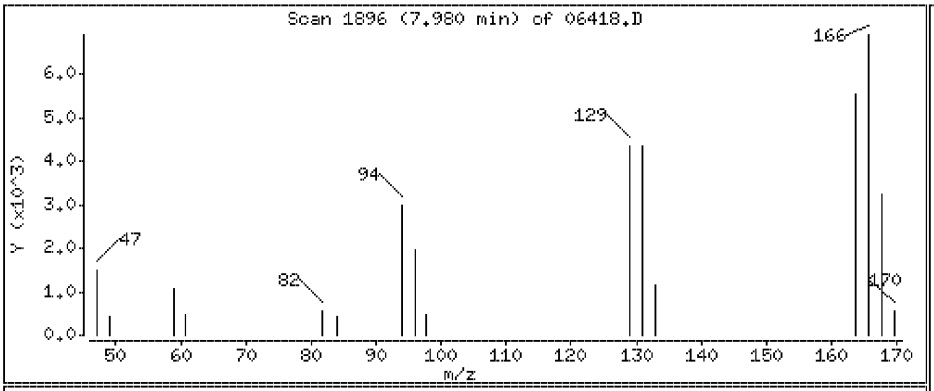
Operator: NCK

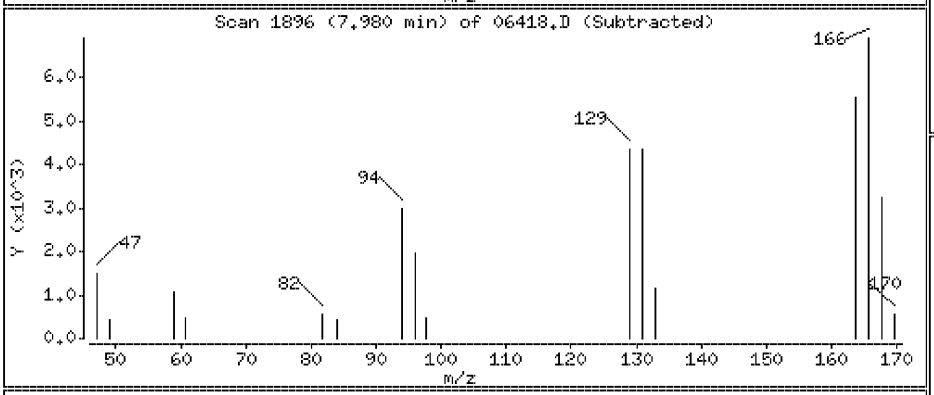
Column phase: J&W DB-5

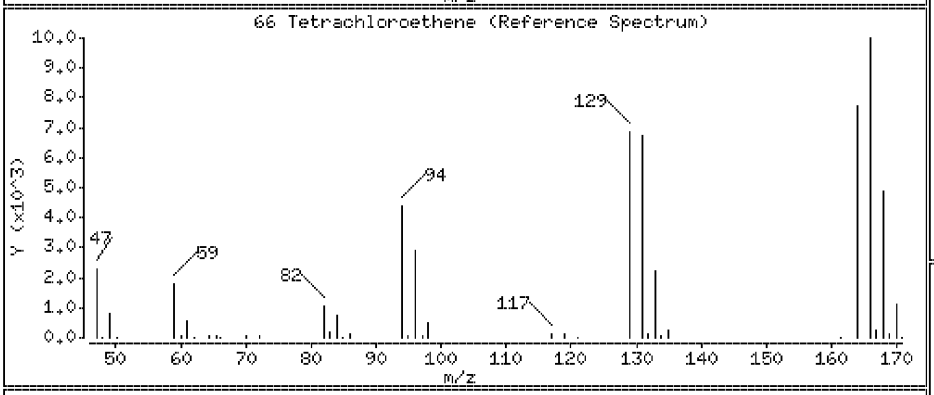
Column diameter: 0.32

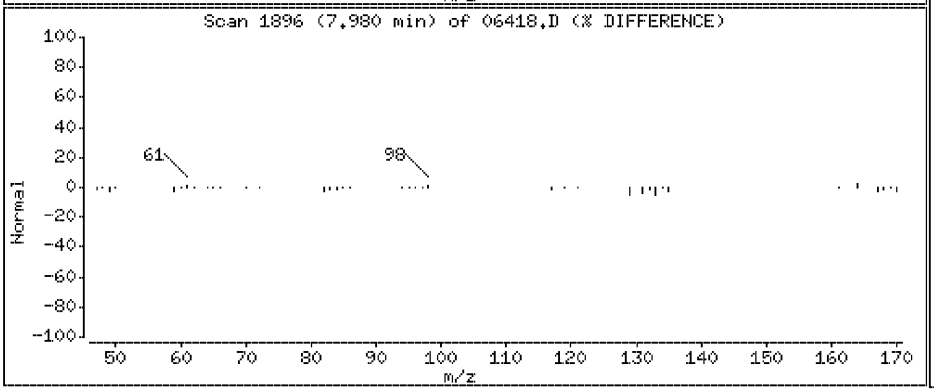
66 Tetrachloroethene

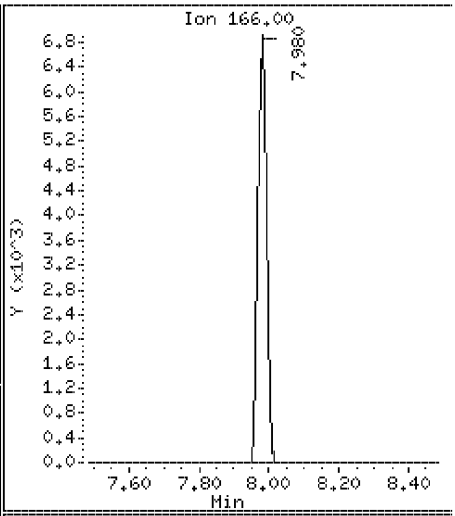
Concentration: 0.681 ppbv

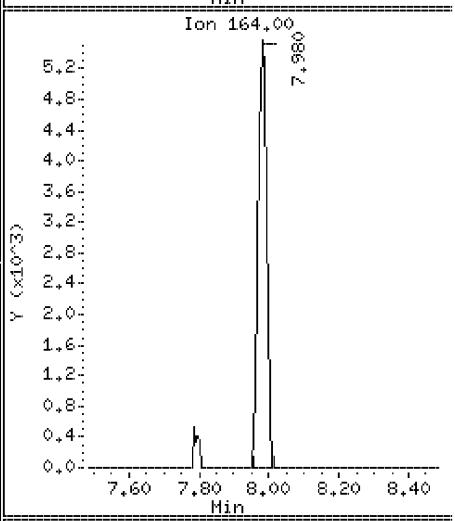


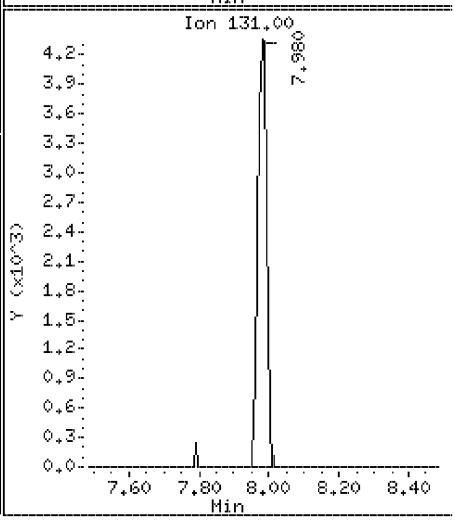












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

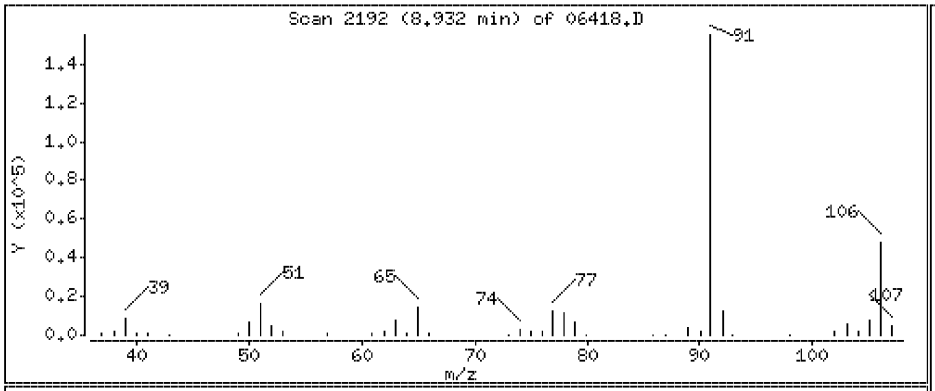
Operator: NCK

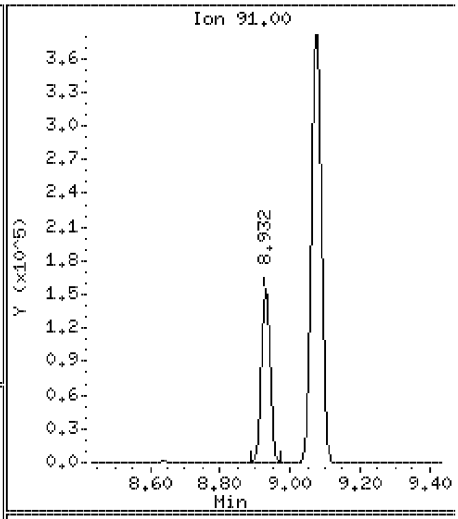
Column phase: J&W DB-5

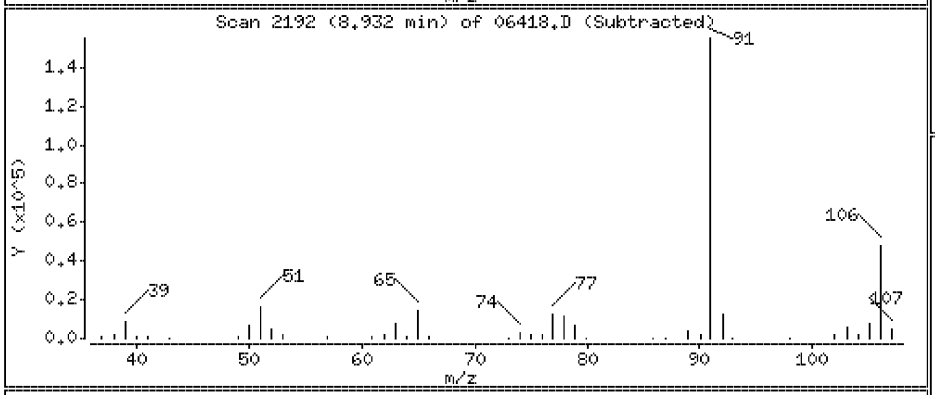
Column diameter: 0.32

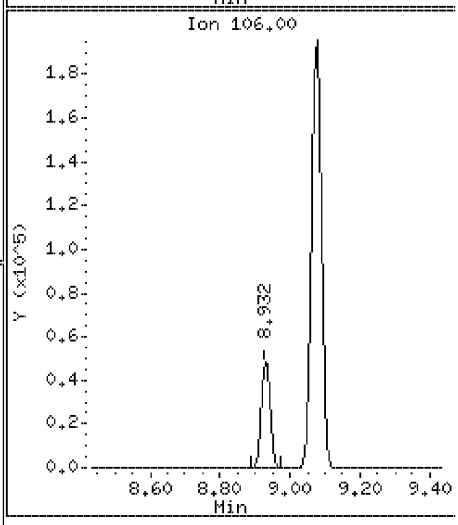
69 Ethyl Benzene

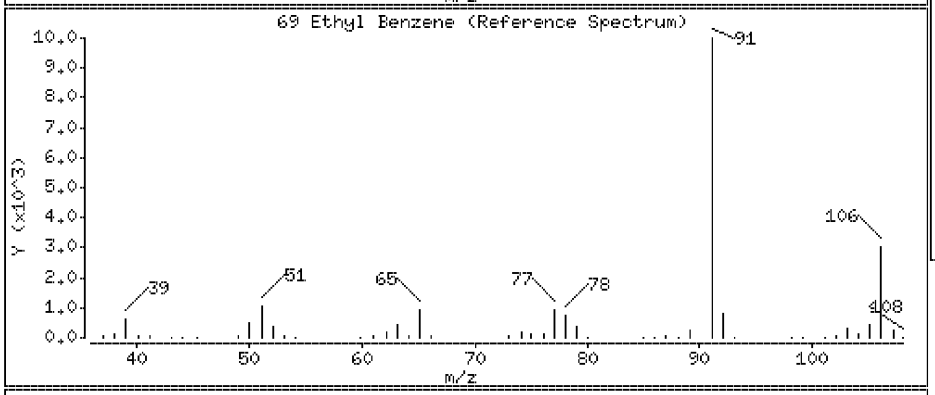
Concentration: 7.35 ppbv

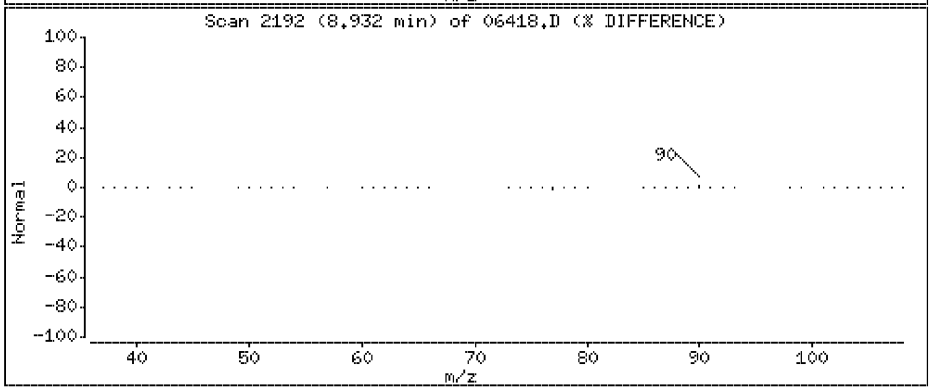












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

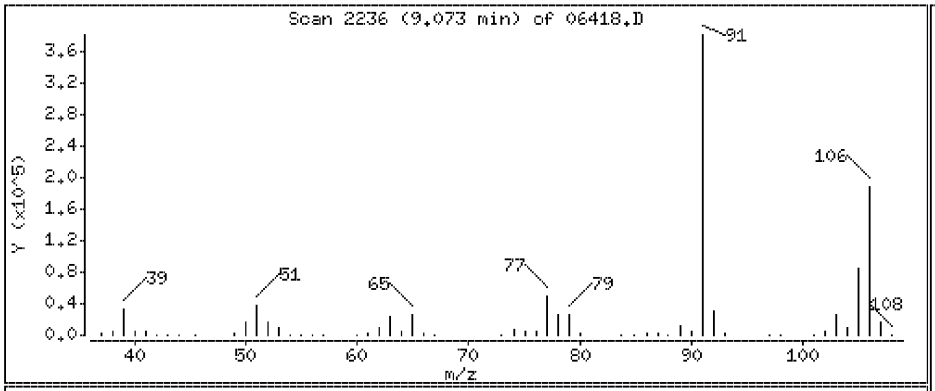
Operator: NCK

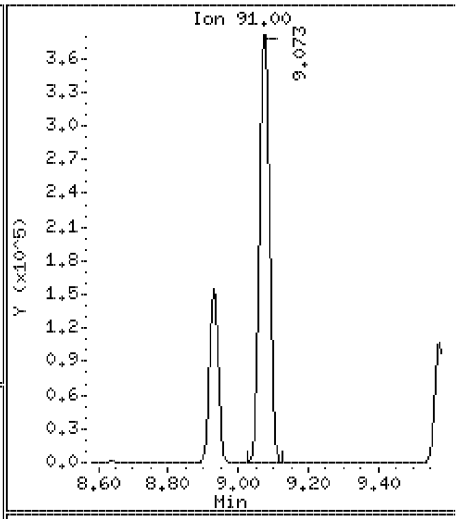
Column phase: J&W DB-5

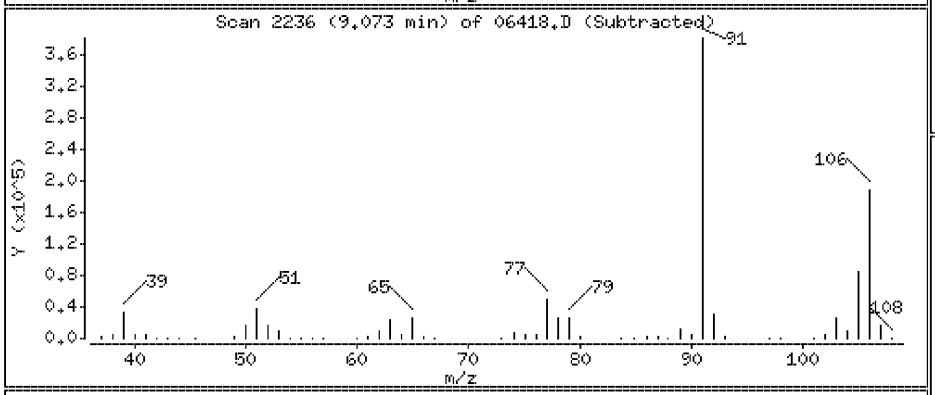
Column diameter: 0.32

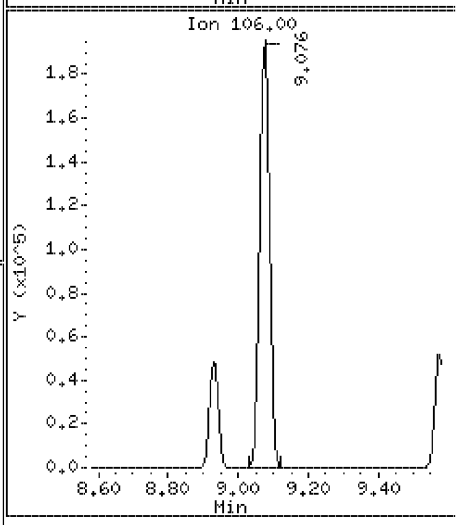
70 m&p-Xylene

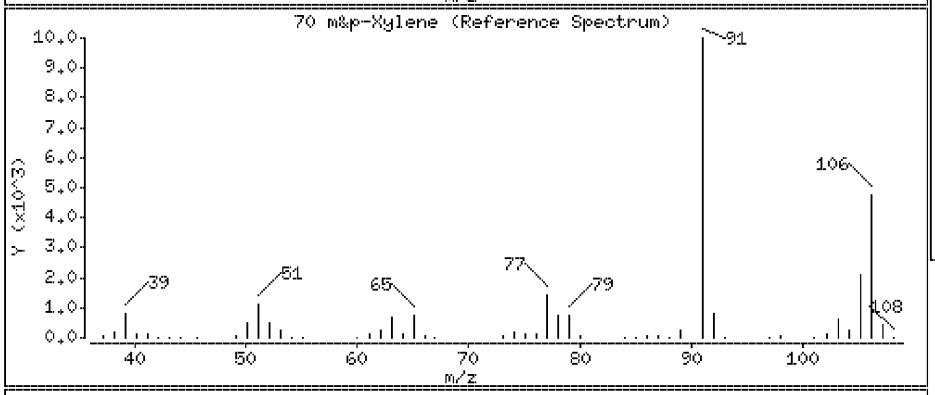
Concentration: 26.7 ppbv

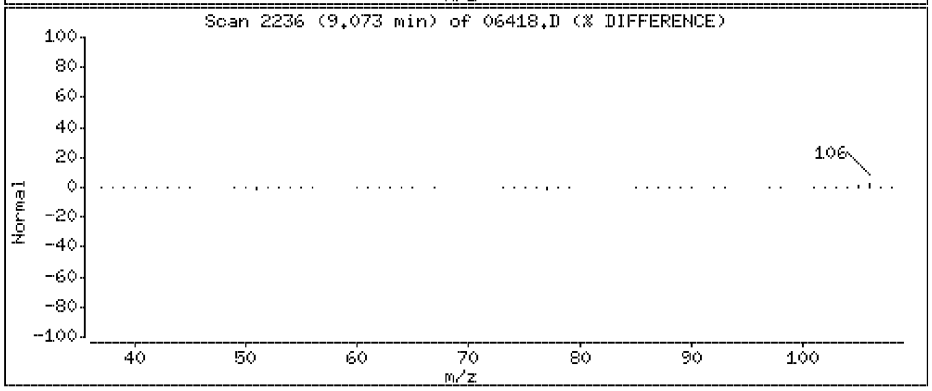












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

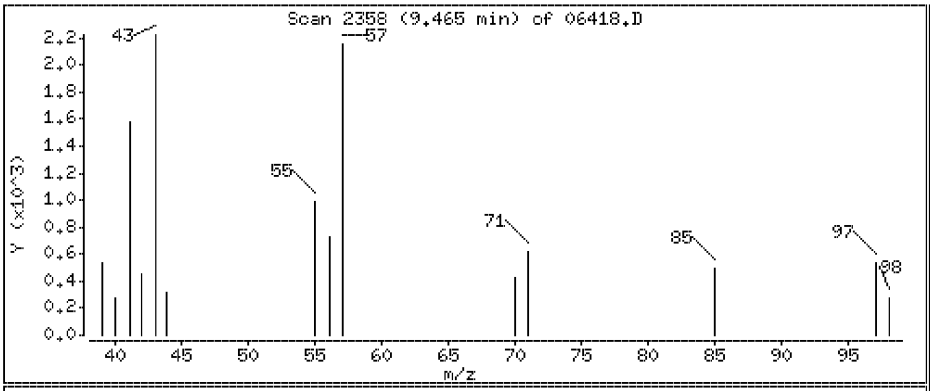
Operator: NCK

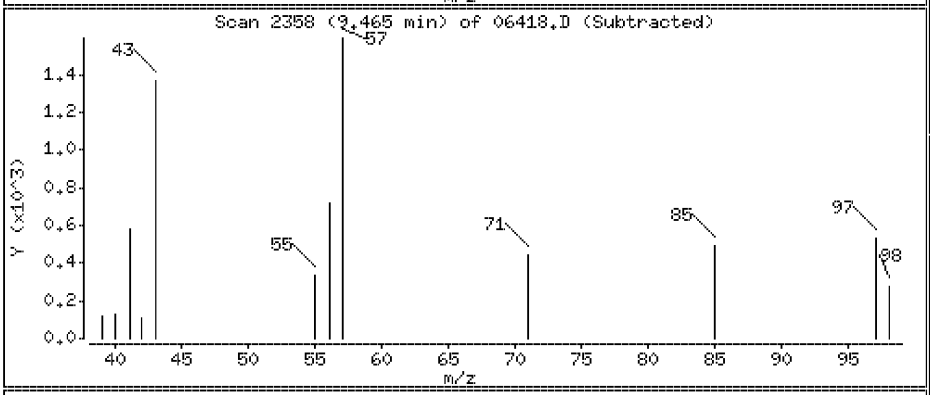
Column phase: J&W DB-5

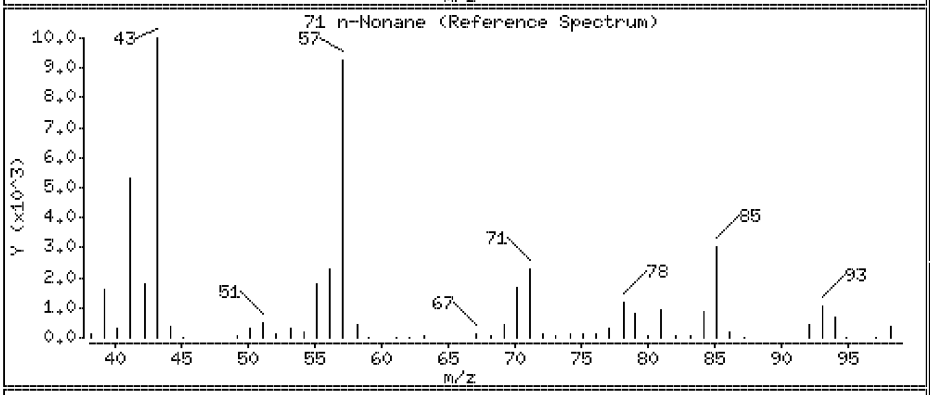
Column diameter: 0.32

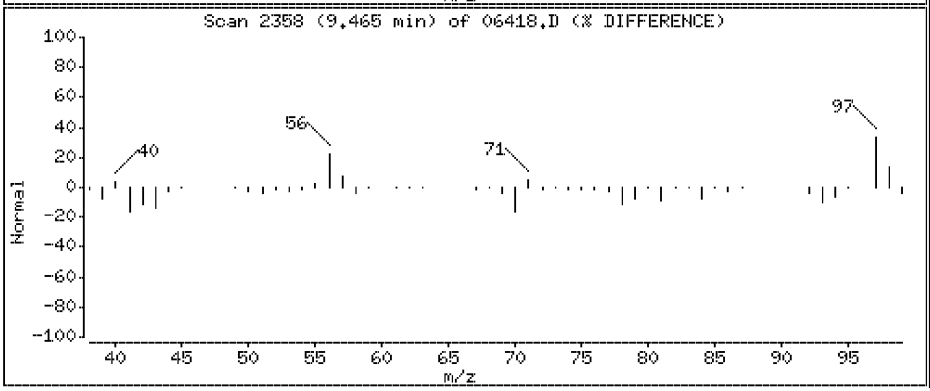
71 n-Nonane

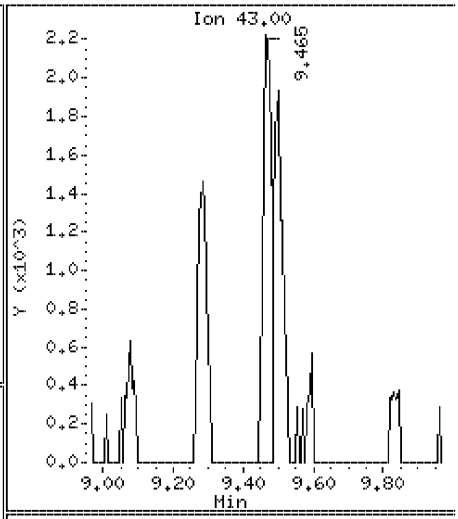
Concentration: 0.264 ppbv

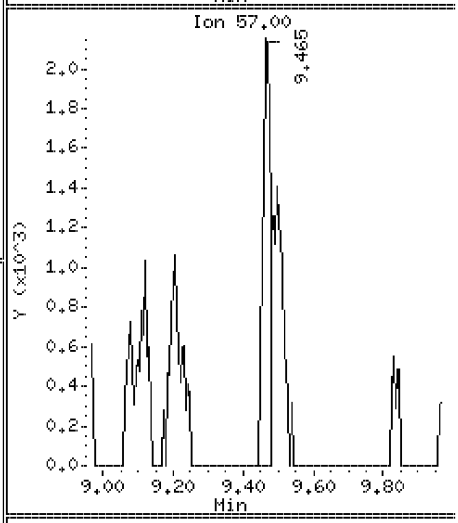


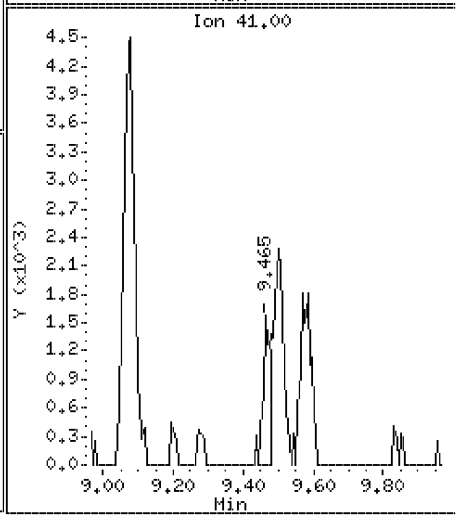












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

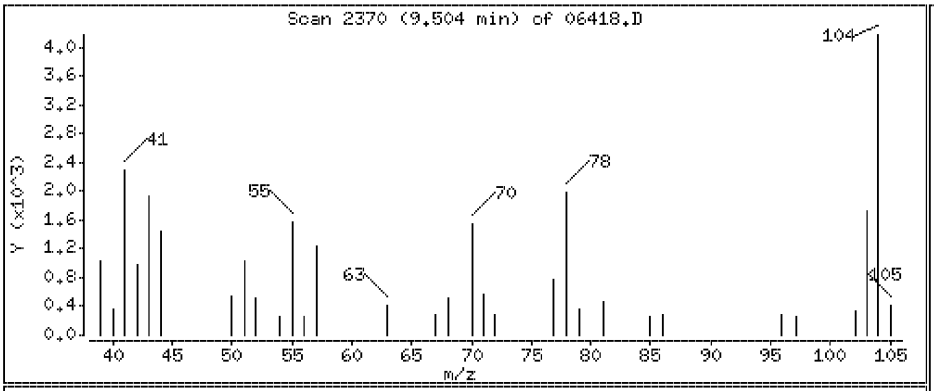
Operator: NCK

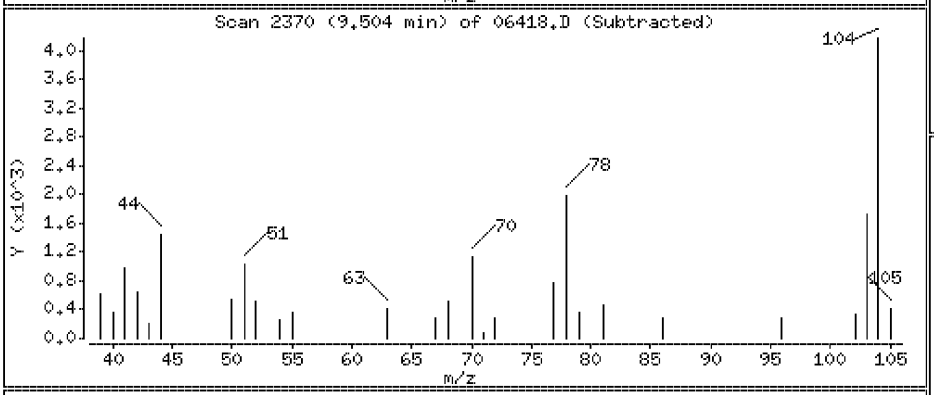
Column phase: J&W DB-5

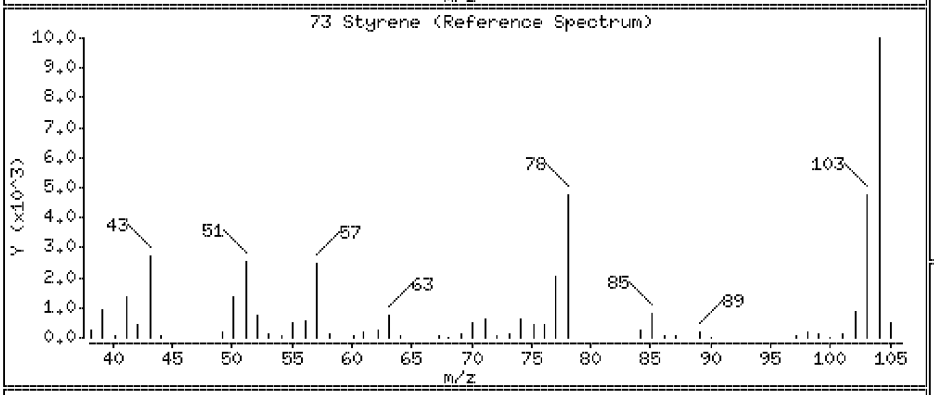
Column diameter: 0.32

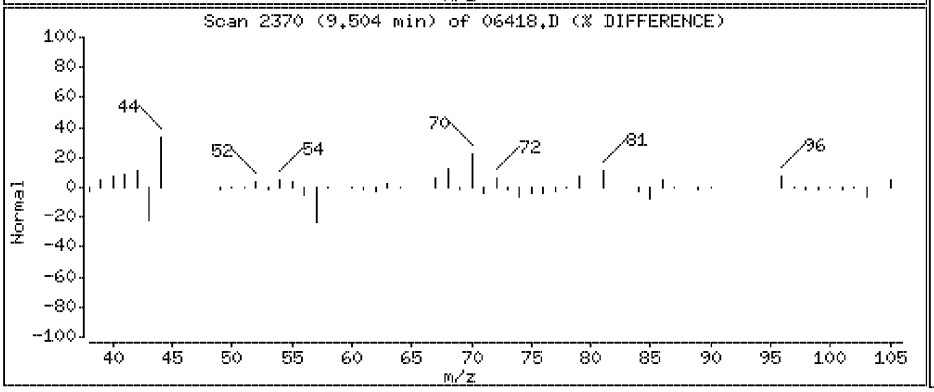
73 Styrene

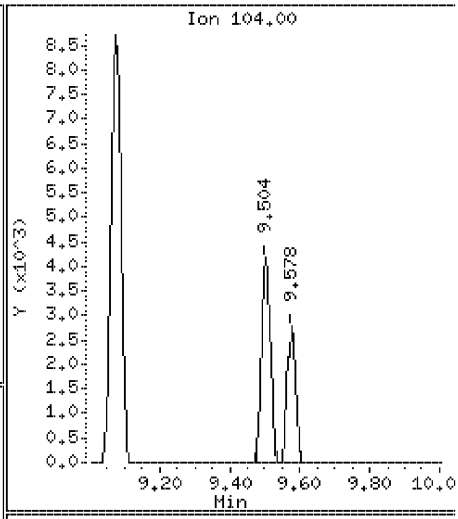
Concentration: 0.418 ppbv

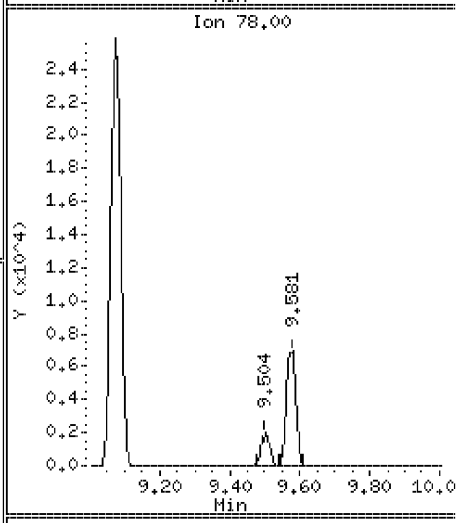


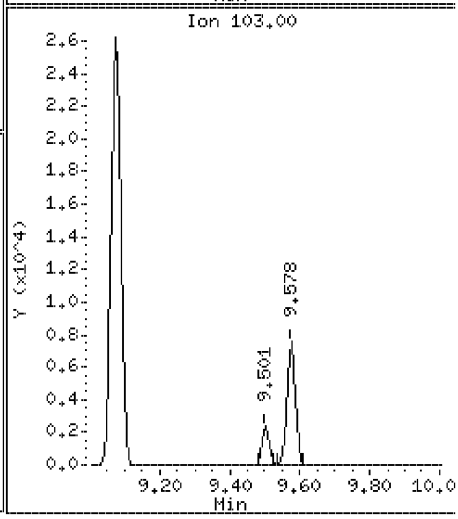












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

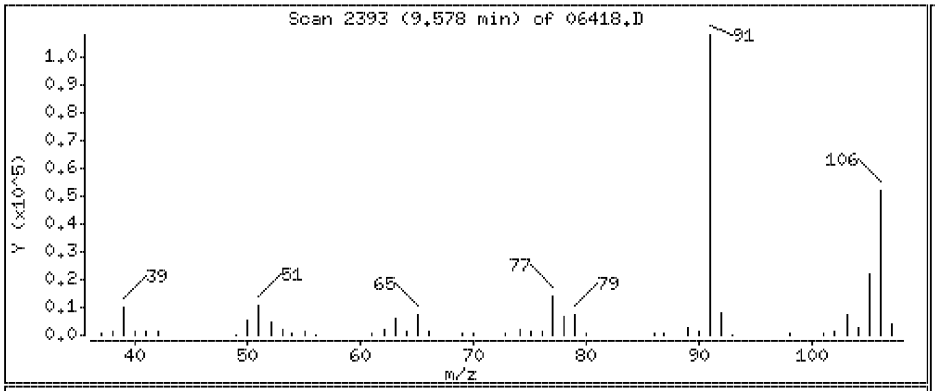
Operator: NCK

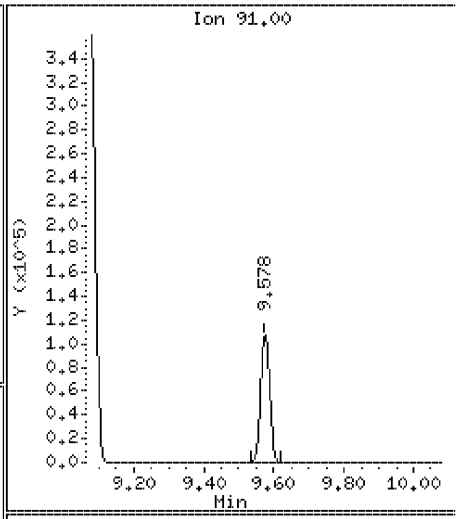
Column phase: J&W DB-5

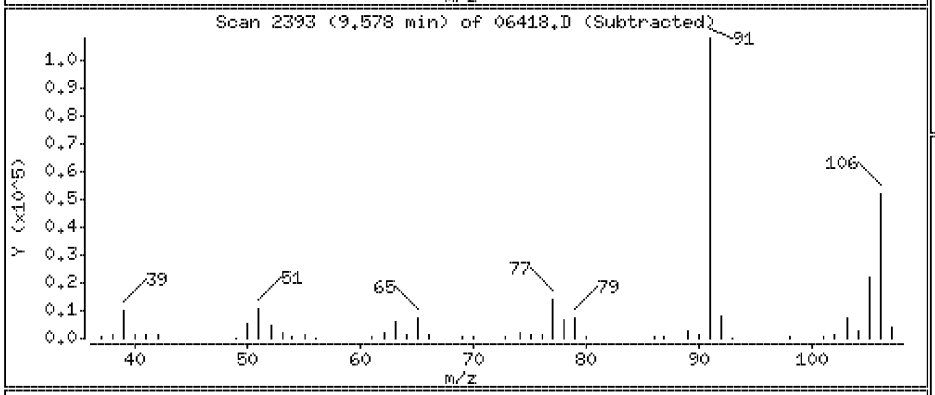
Column diameter: 0.32

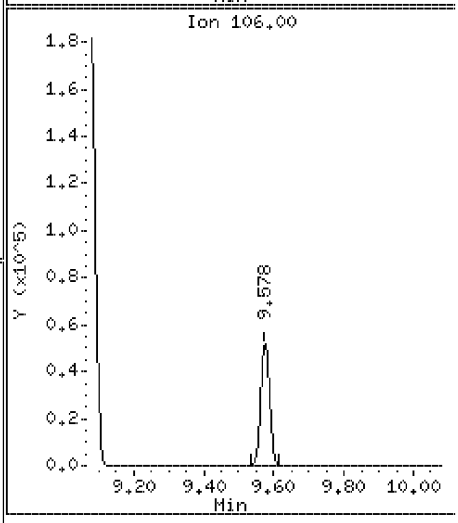
74 o-Xylene

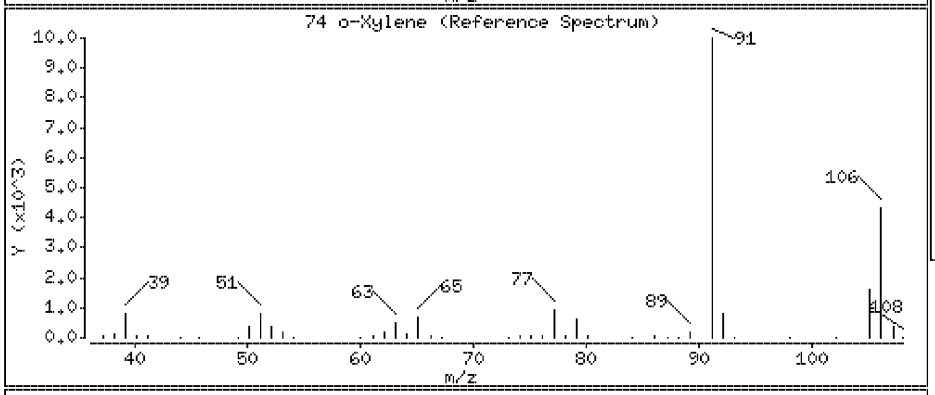
Concentration: 6.60 ppbv

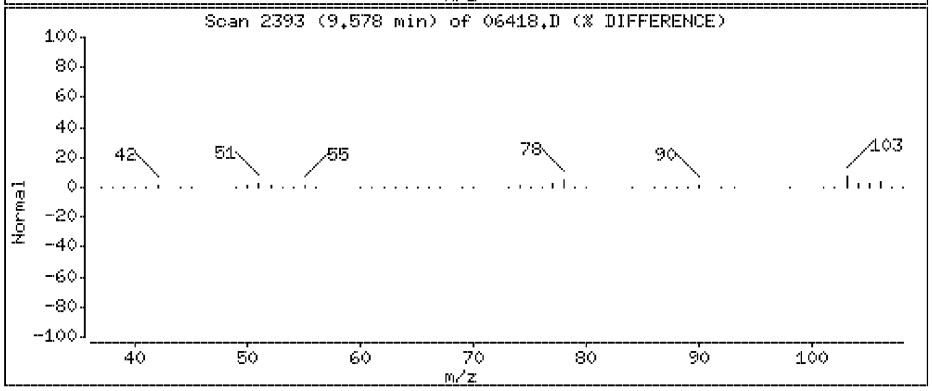












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

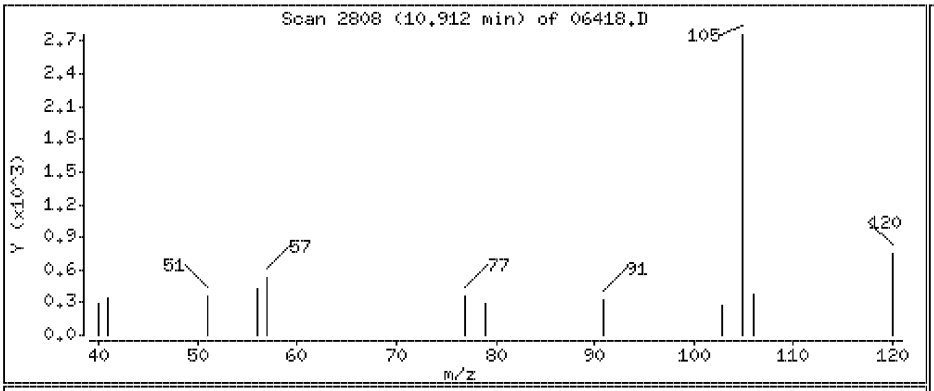
Operator: NCK

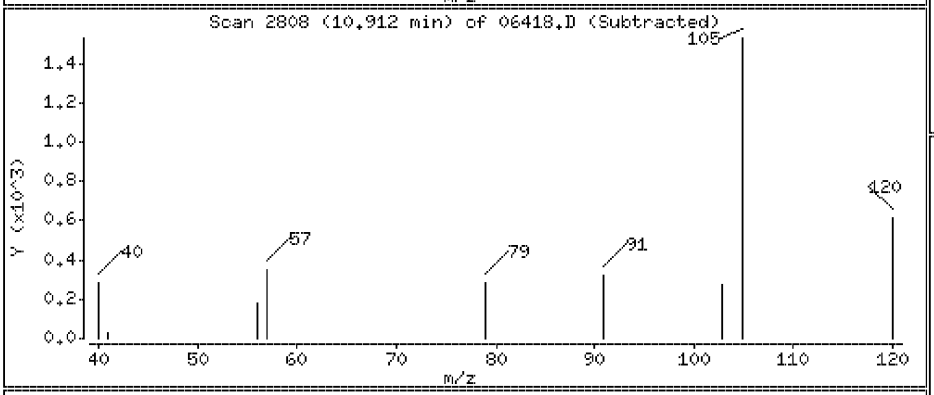
Column phase: J&W DB-5

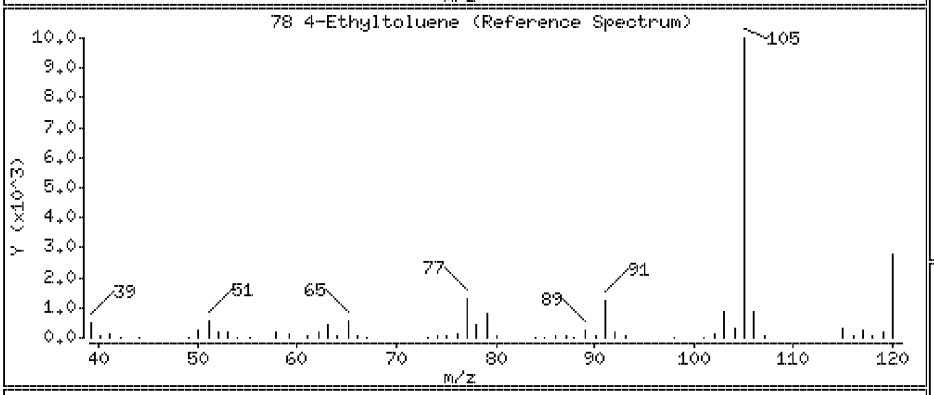
Column diameter: 0.32

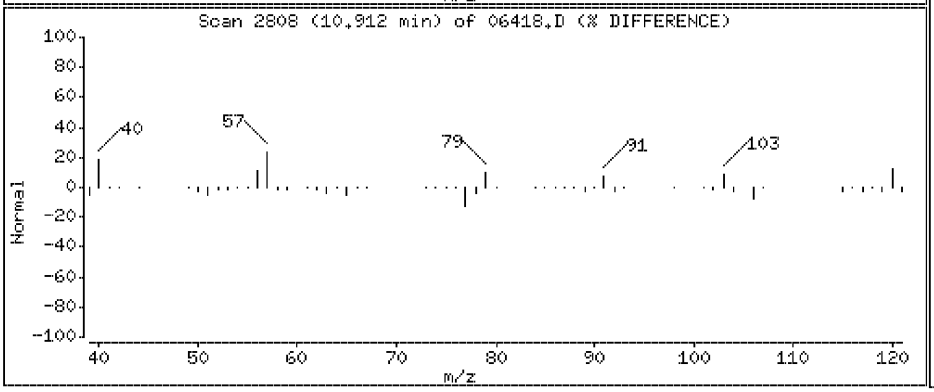
78 4-Ethyltoluene

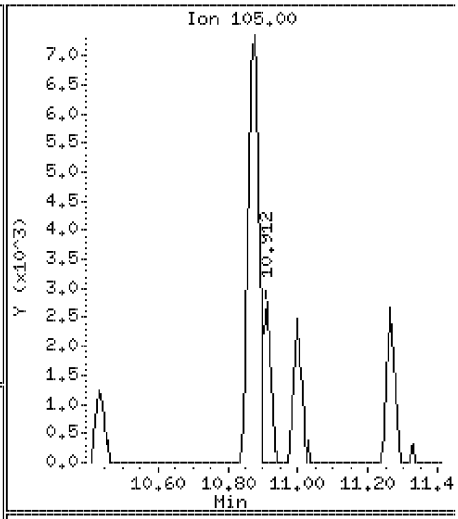
Concentration: 0.282 ppbv

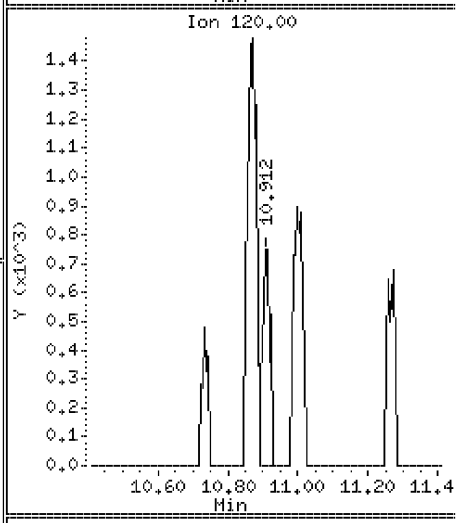


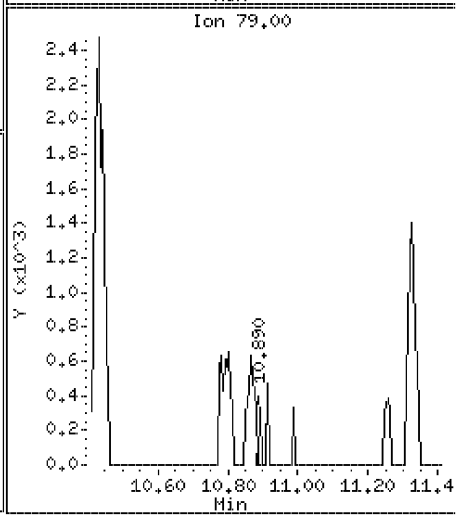












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

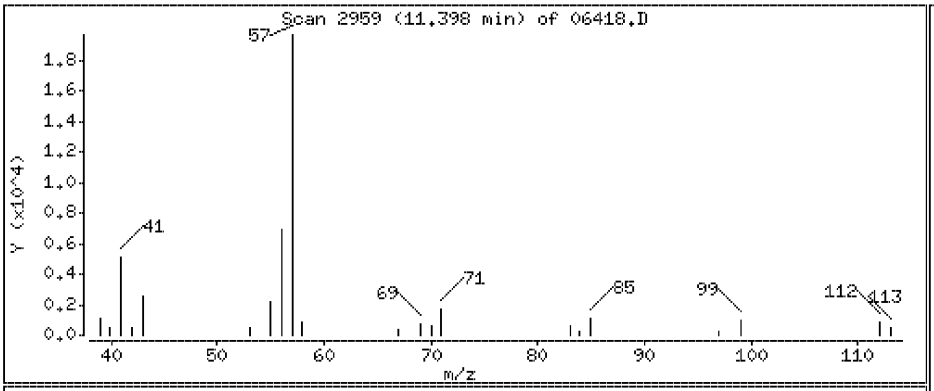
Operator: NCK

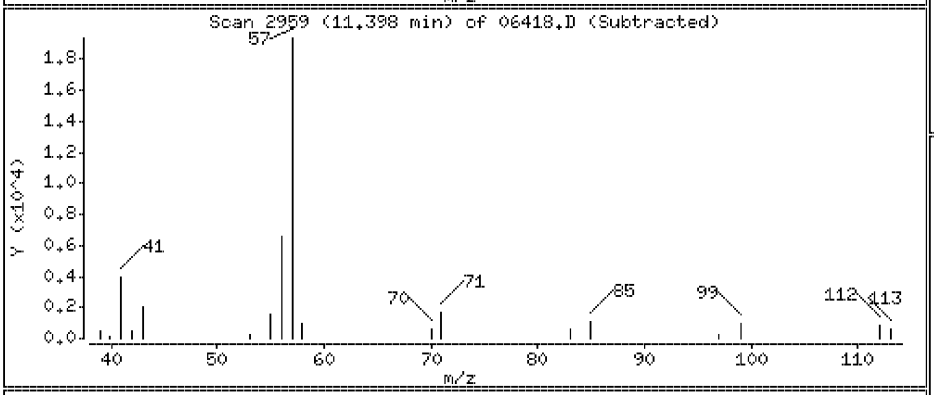
Column phase: J&W DB-5

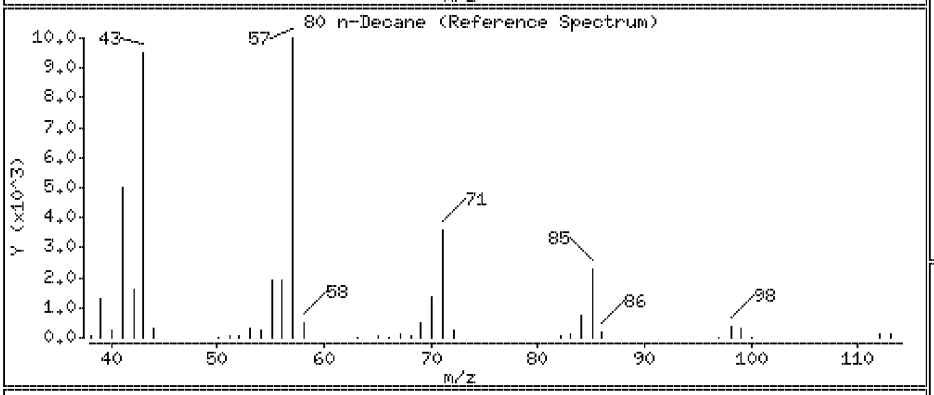
Column diameter: 0.32

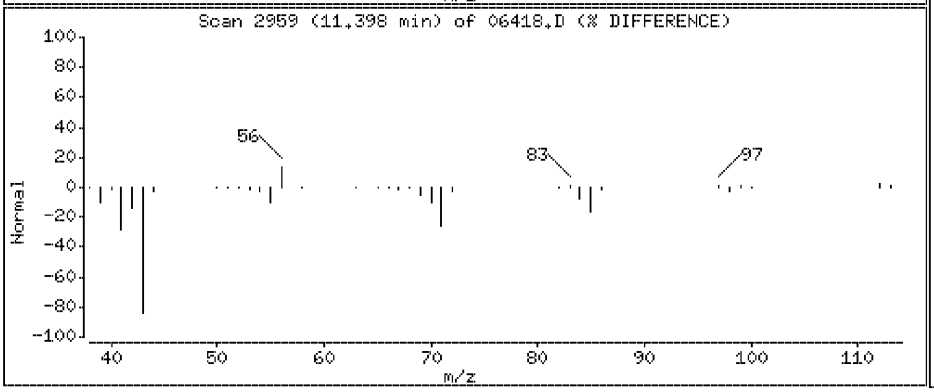
80 n-Decane

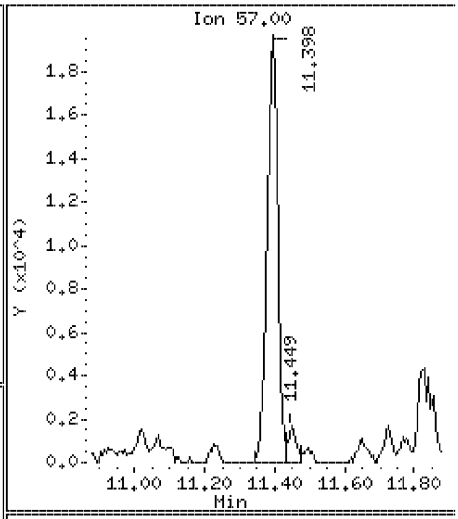
Concentration: 2.53 ppbv

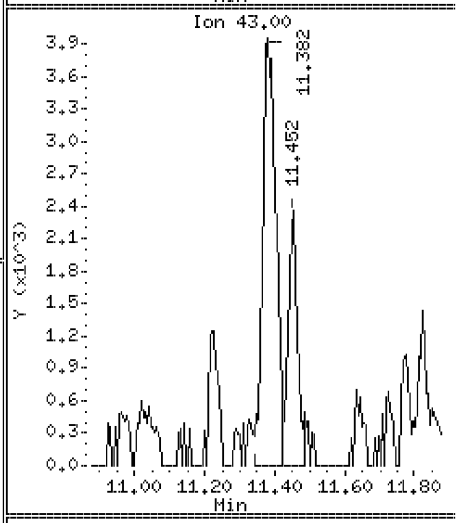


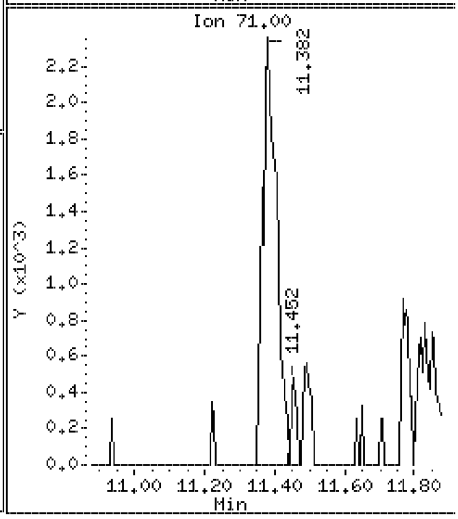












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

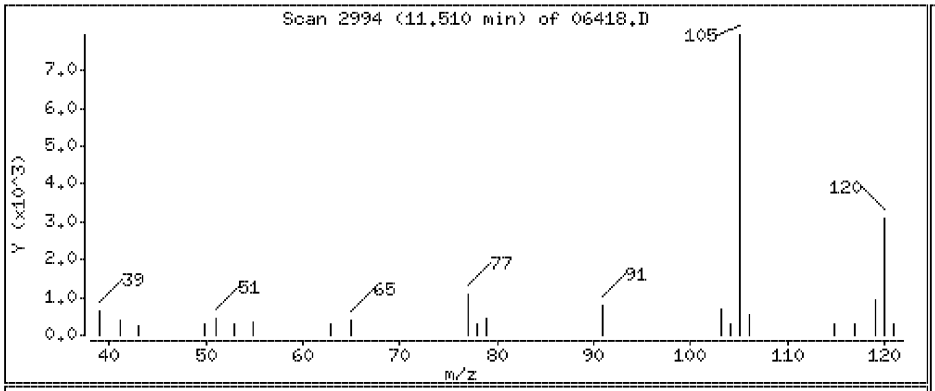
Operator: NCK

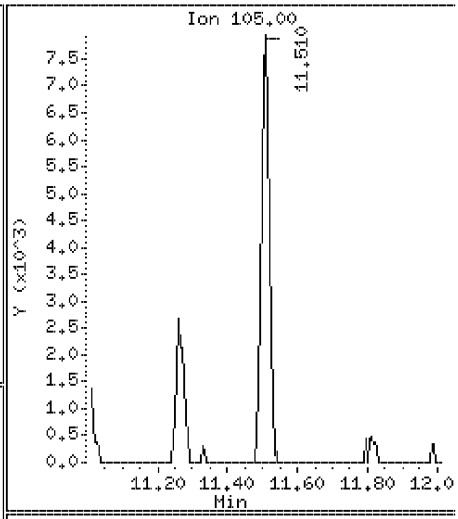
Column phase: J&W DB-5

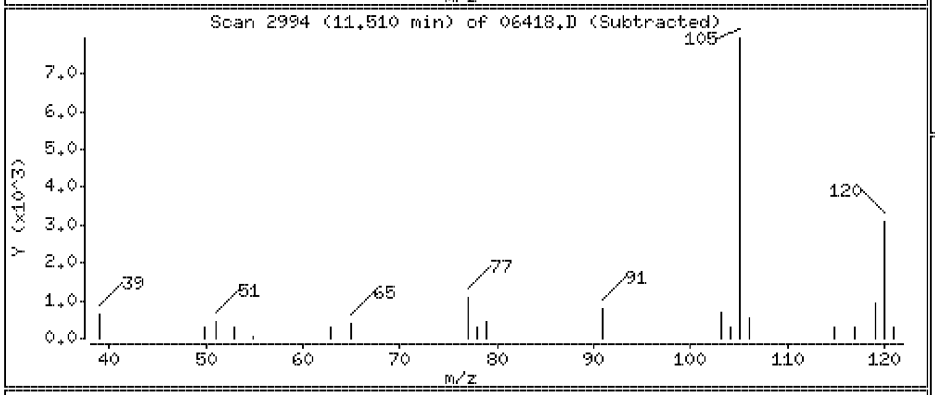
Column diameter: 0.32

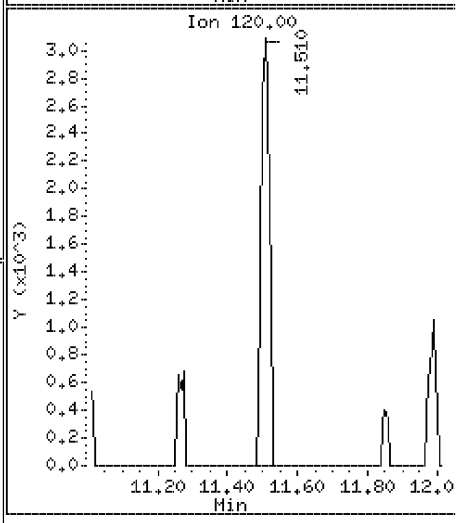
82 1,2,4-Trimethylbenzene

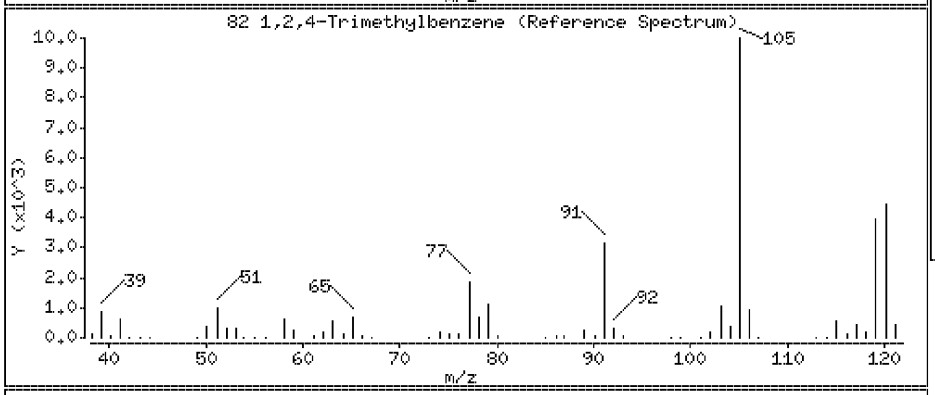
Concentration: 0.422 ppbv

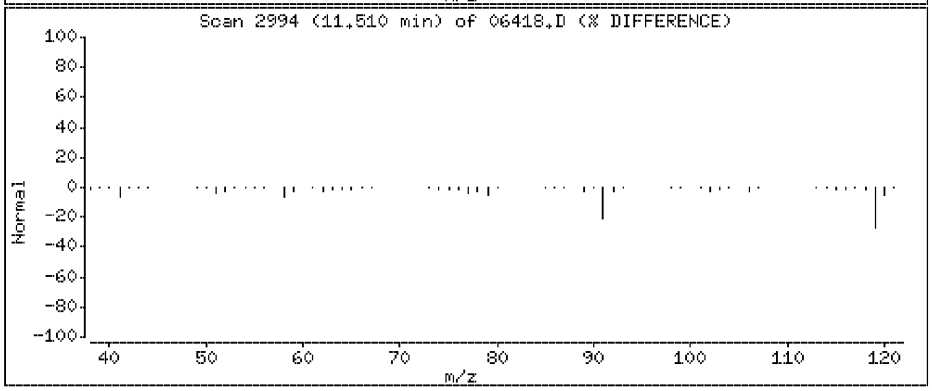












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

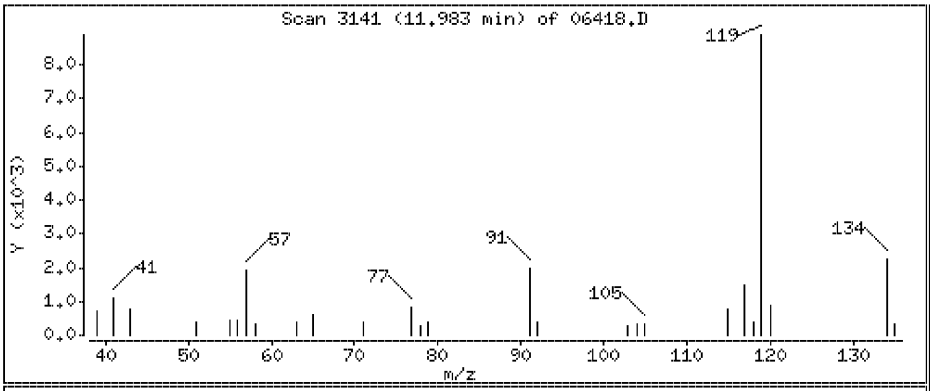
Operator: NCK

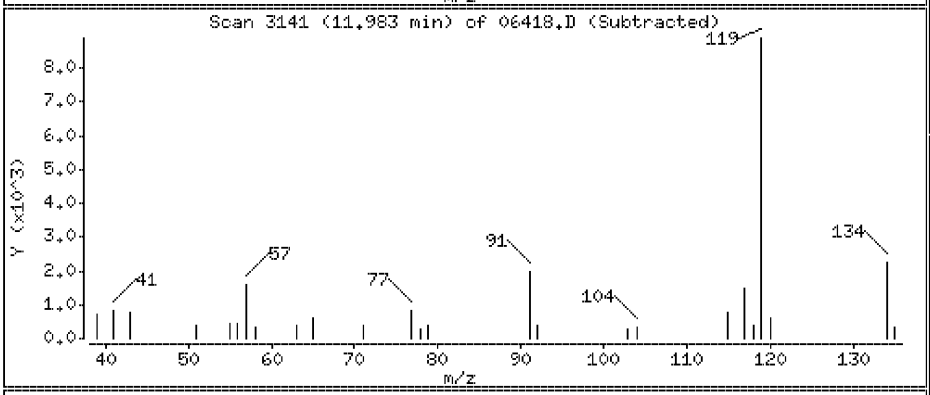
Column phase: J&W DB-5

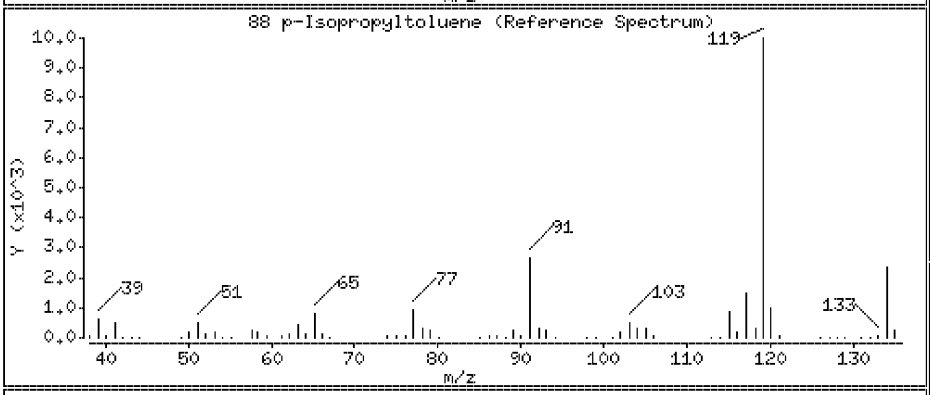
Column diameter: 0.32

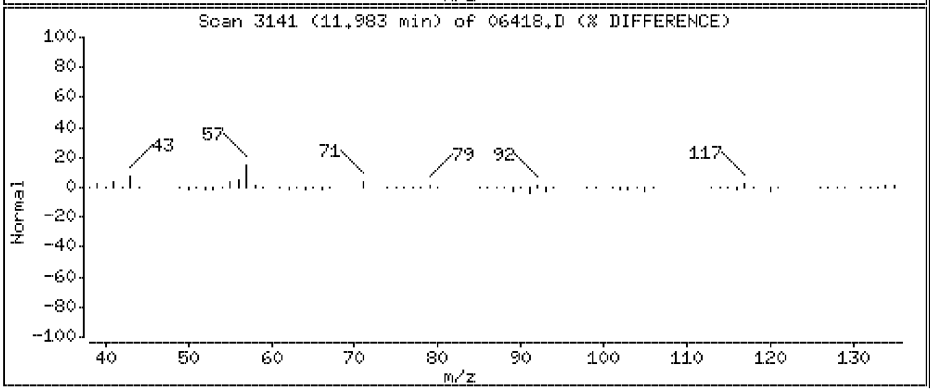
88 p-Isopropyltoluene

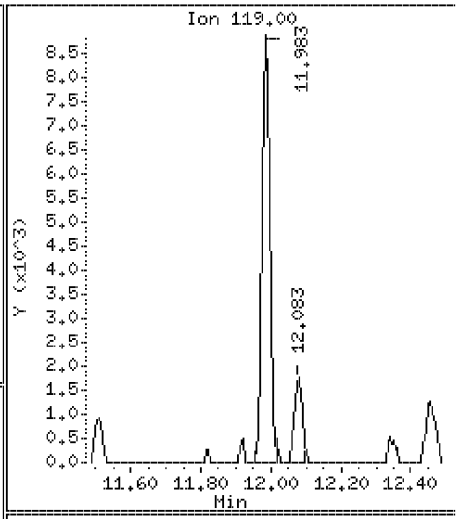
Concentration: 0.336 ppbv

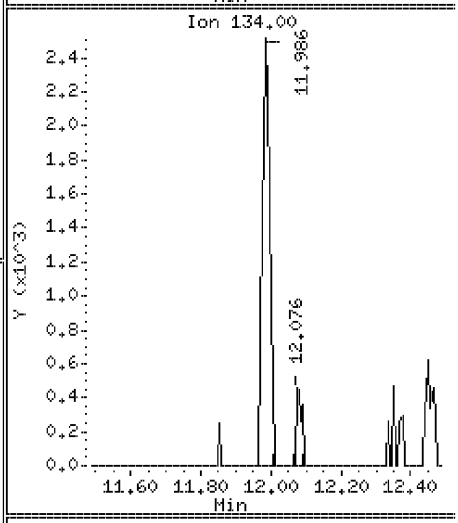


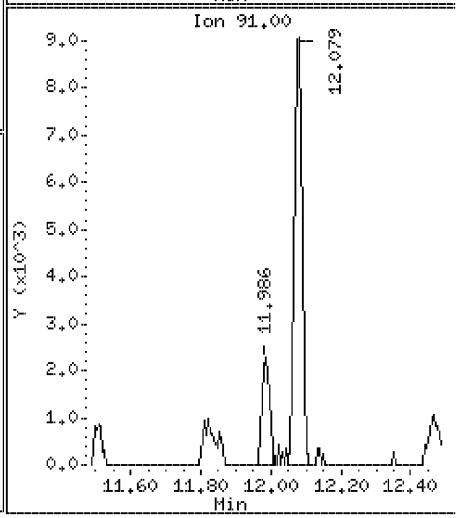












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06418.D

Date : 05-MAR-2017 17:49

Client ID:

Instrument: 10airB.i

Sample Info:

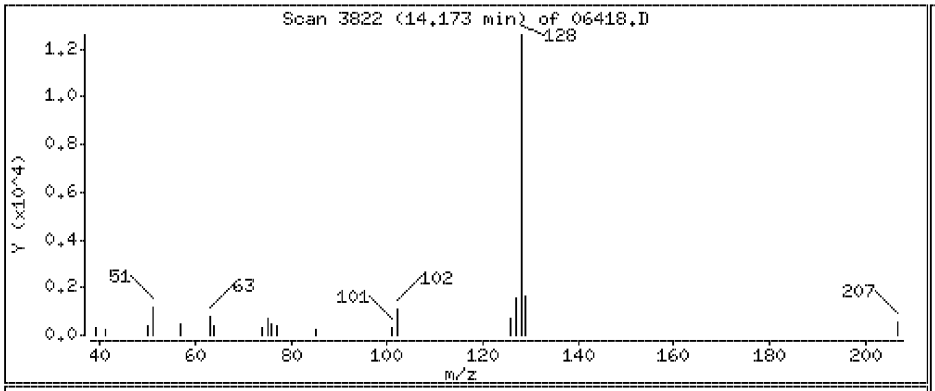
Operator: NCK

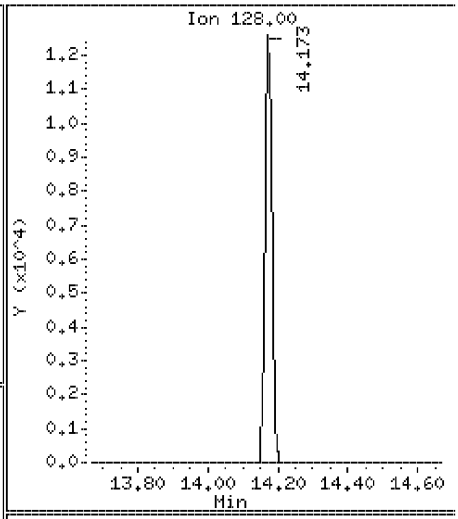
Column phase: J&W DB-5

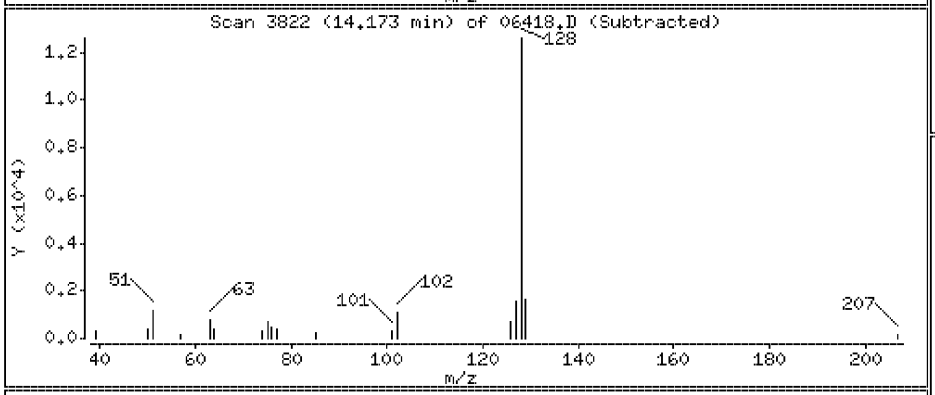
Column diameter: 0.32

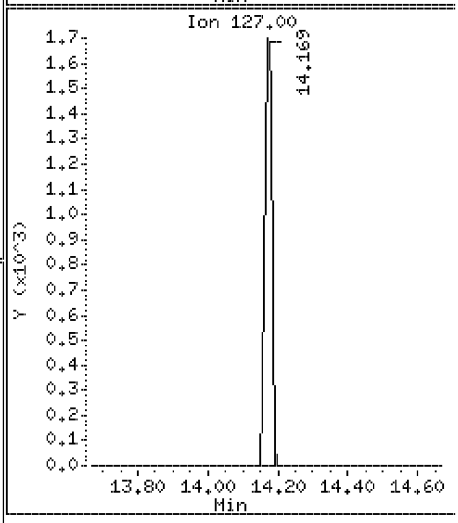
94 Naphthalene

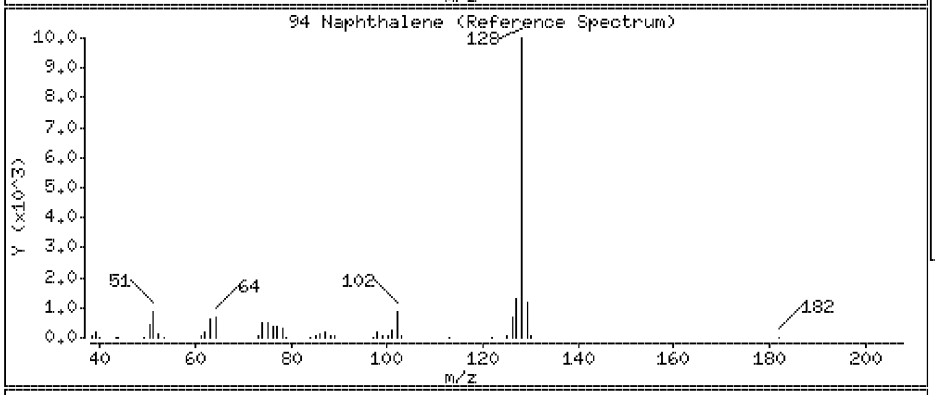
Concentration: 1.42 ppbv

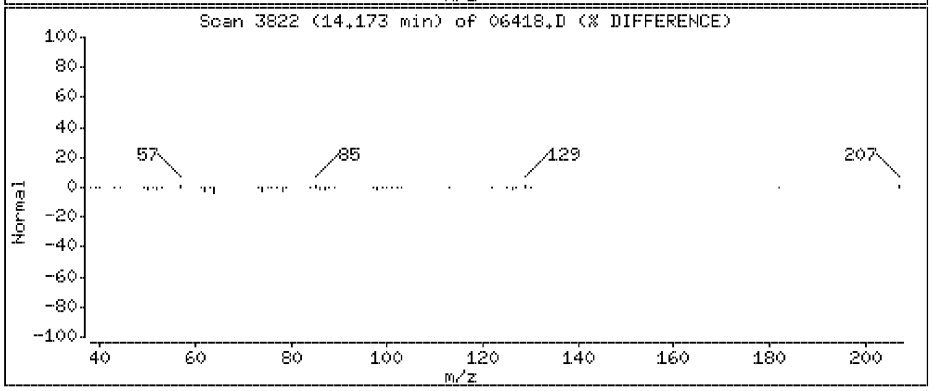






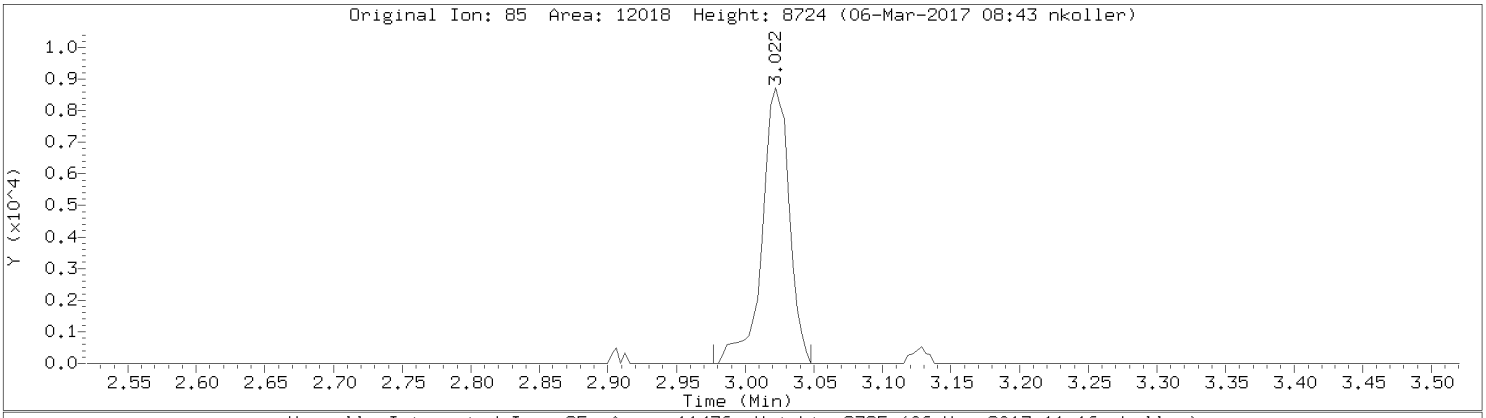


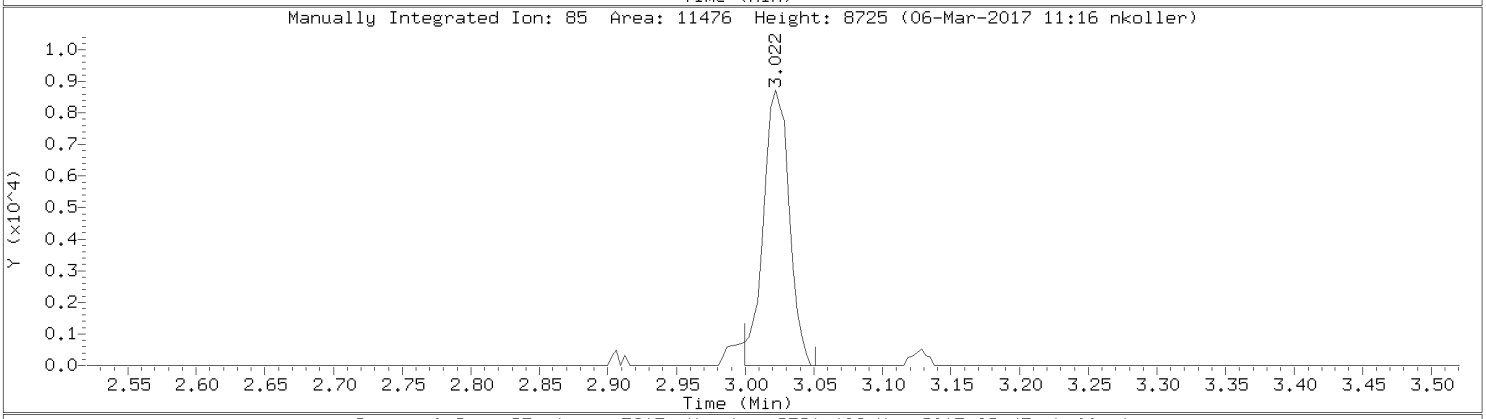


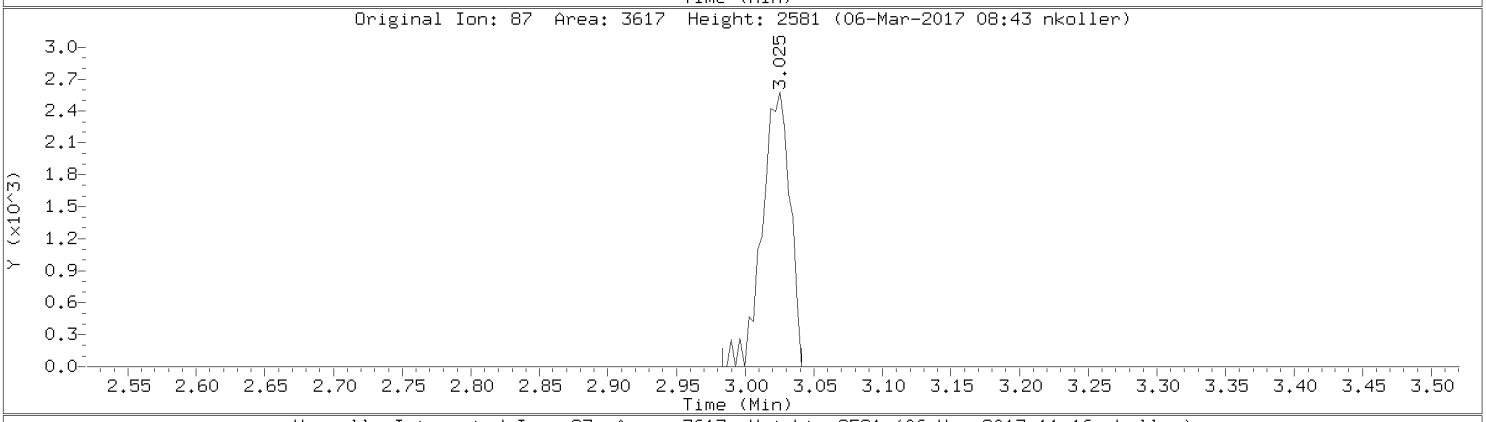


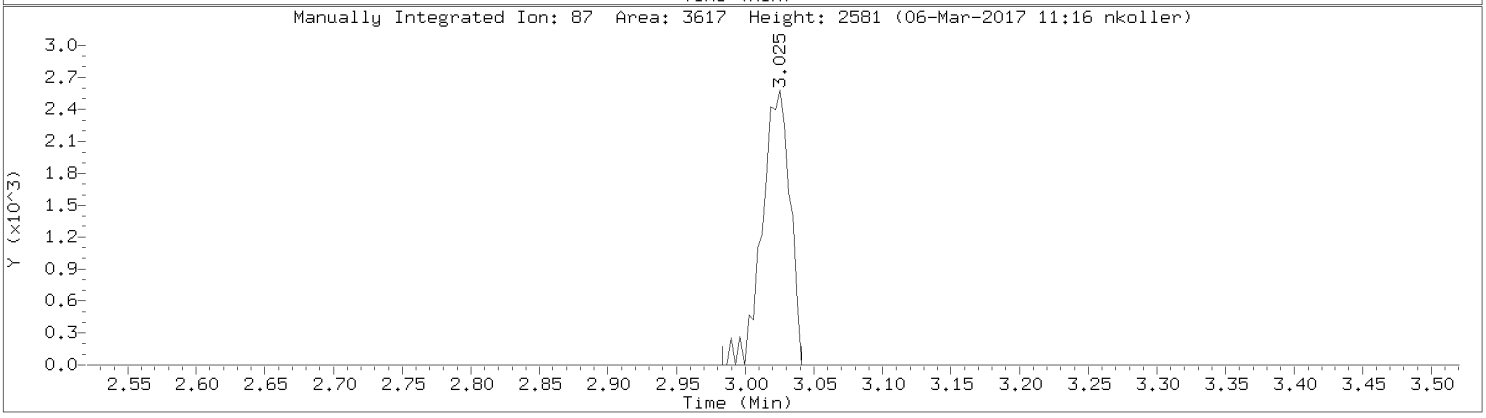
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06418.D
Injection Date: 05-MAR-2017 17:49
Instrument: 10airB.i
Lab Sample ID: 10380193001

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



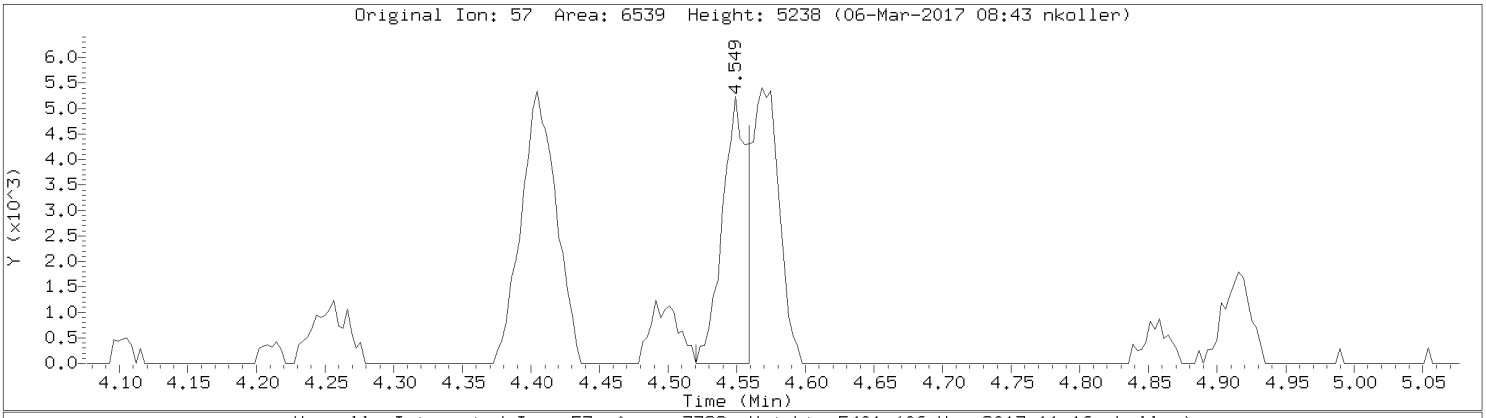


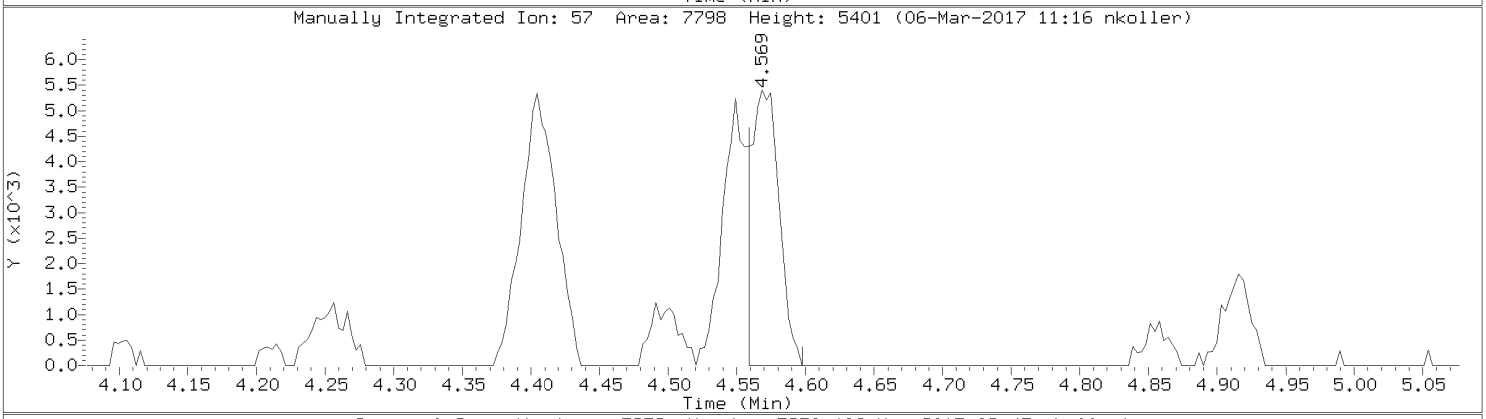


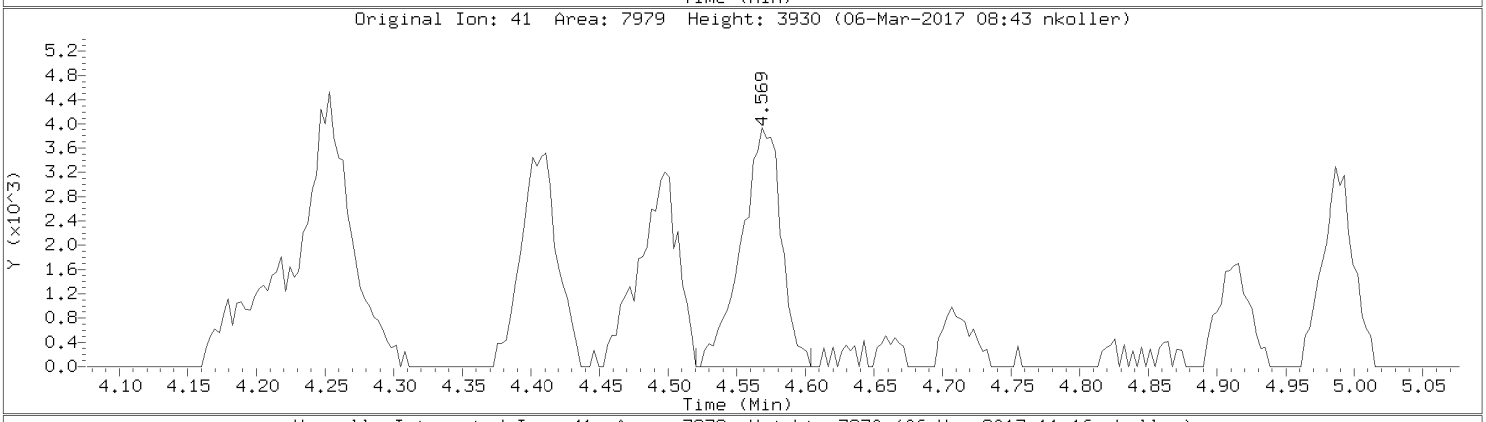


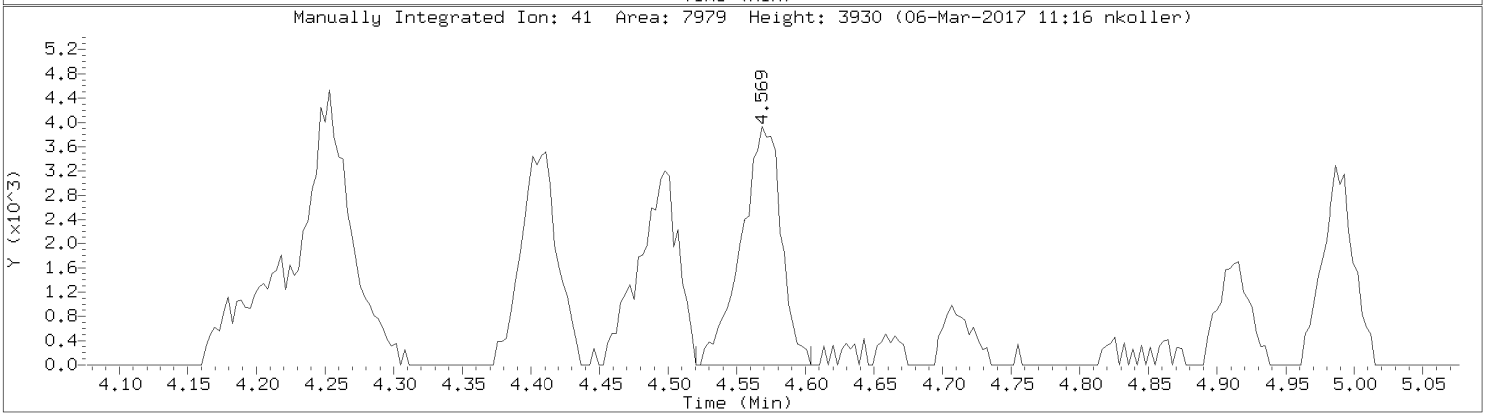
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06418.D
Injection Date: 05-MAR-2017 17:49
Instrument: 10airB.i
Lab Sample ID: 10380193001

Compound: n-Hexane
CAS Number: 110-54-3

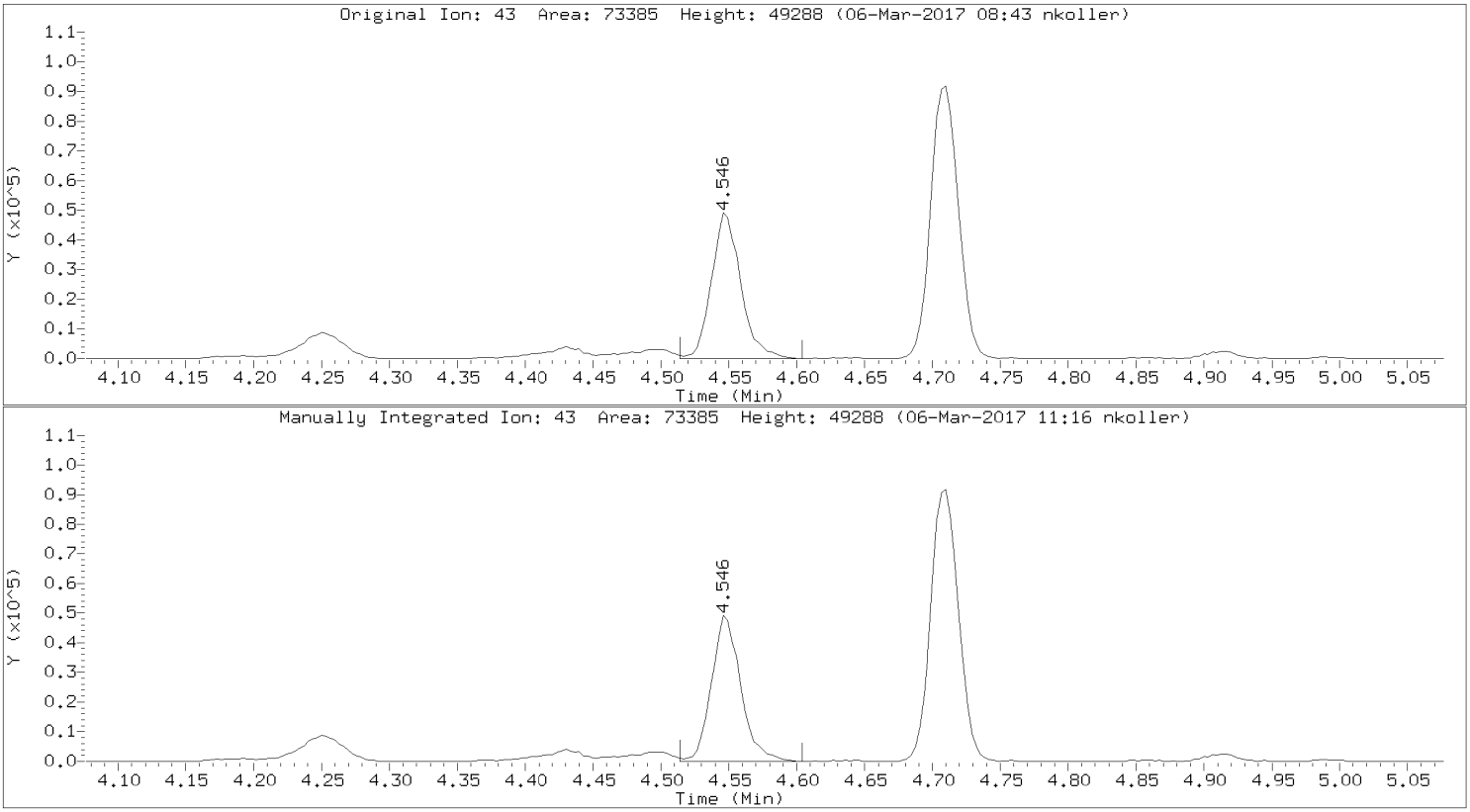






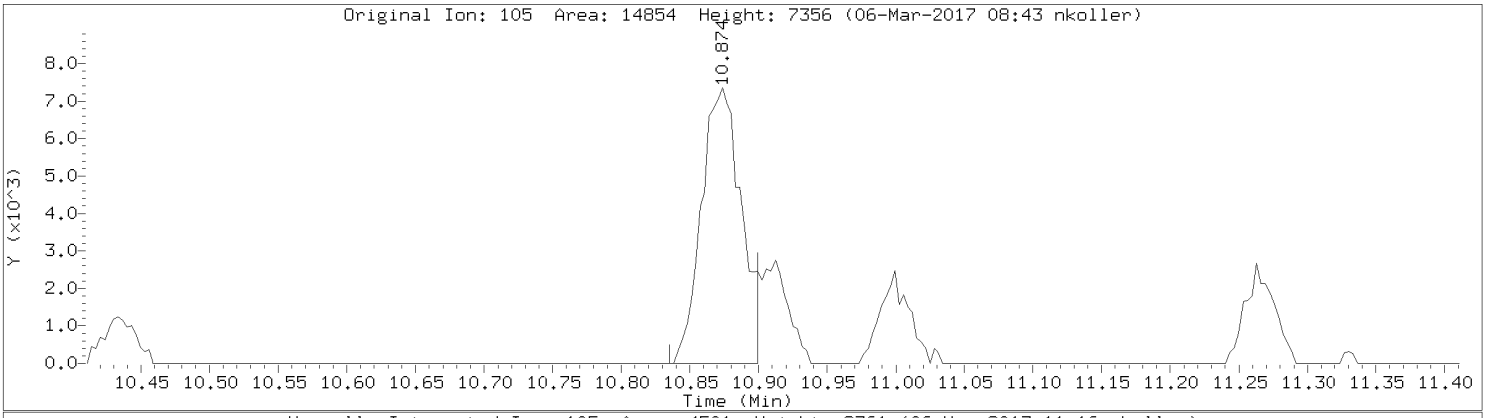


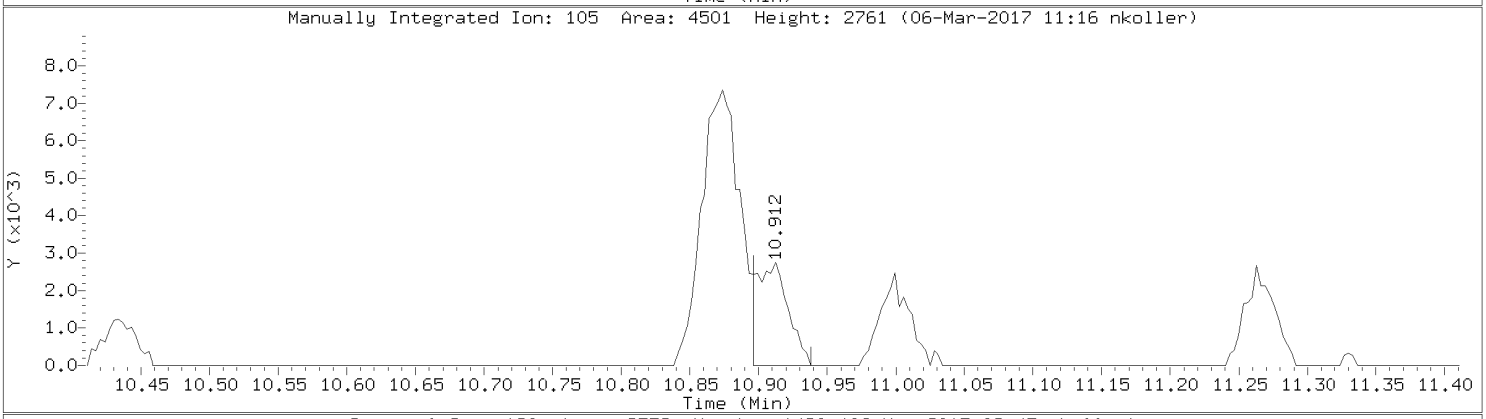
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06418.D
Injection Date: 05-MAR-2017 17:49
Instrument: 10airB.i
Lab Sample ID: 10380193001

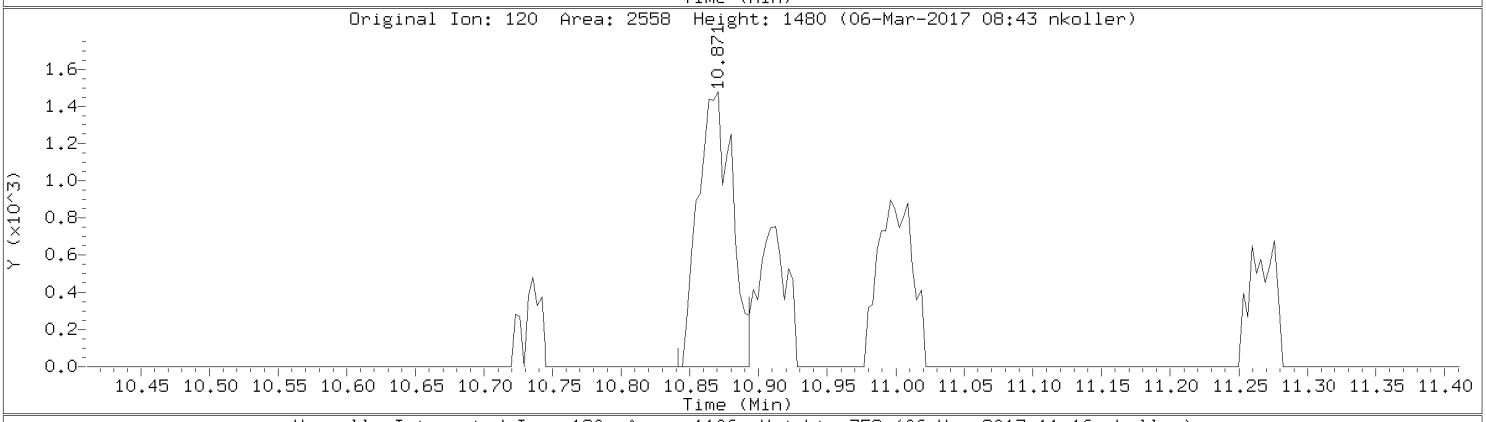


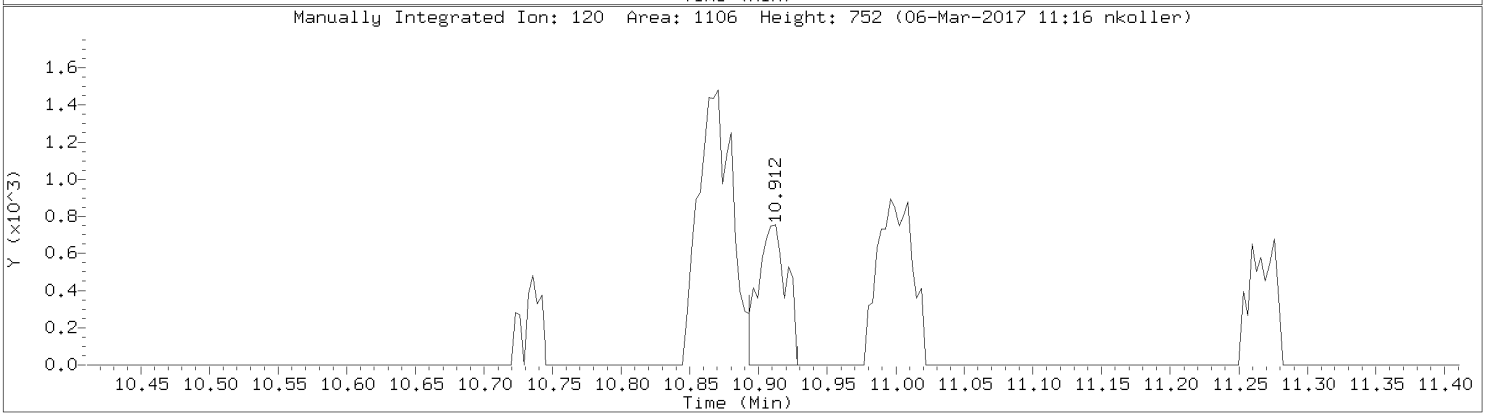
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06418.D
Injection Date: 05-MAR-2017 17:49
Instrument: 10airB.i
Lab Sample ID: 10380193001

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

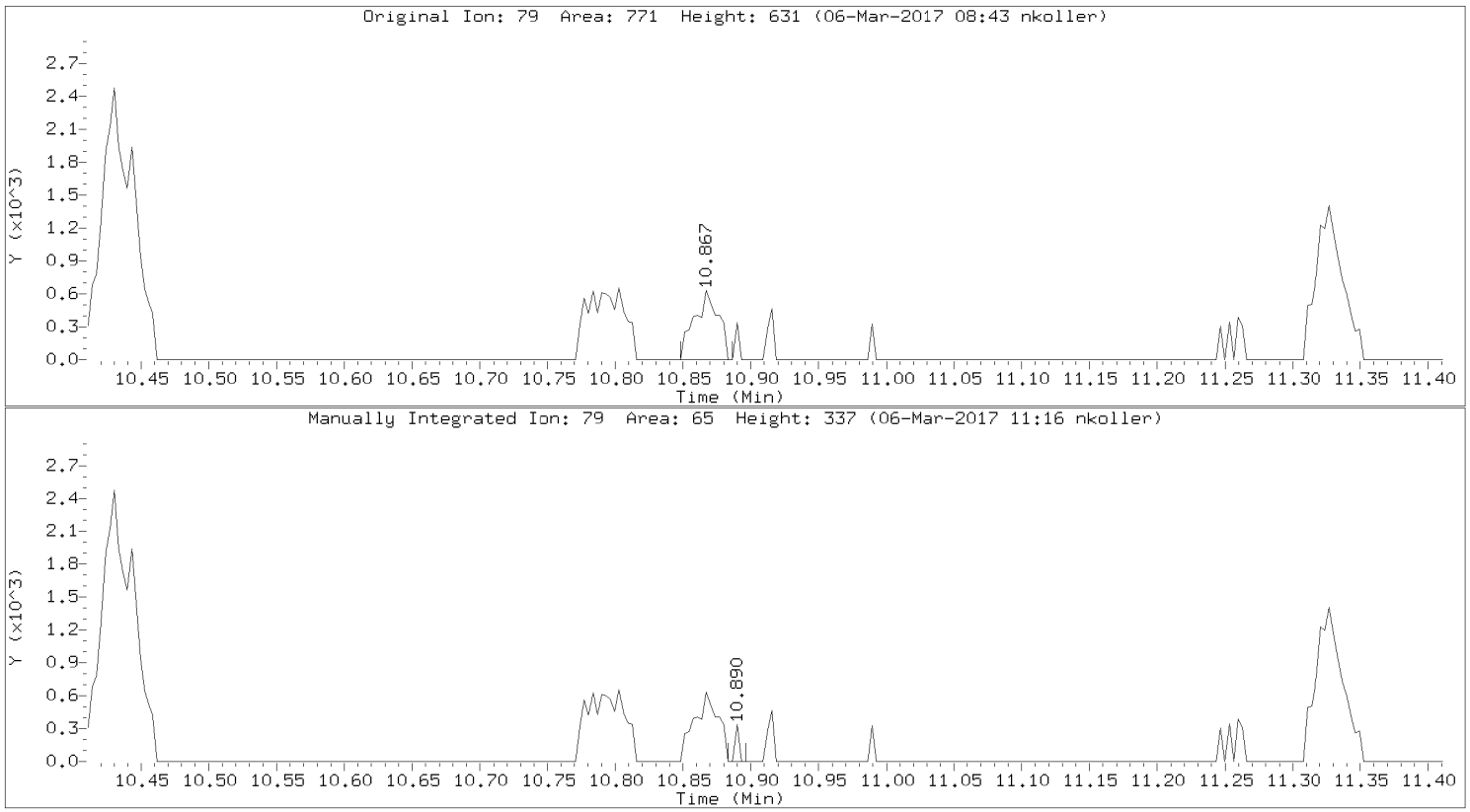






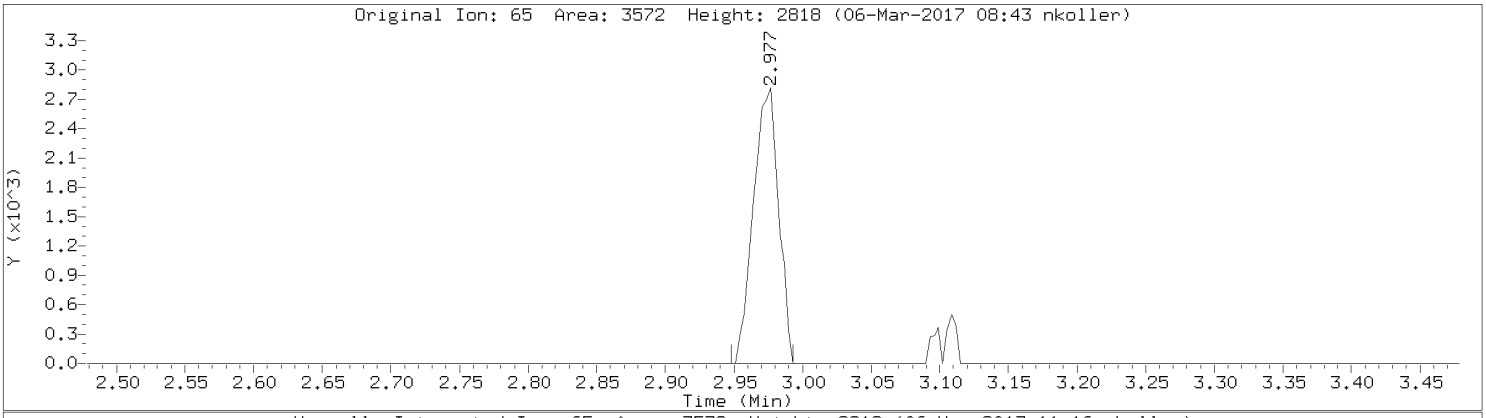


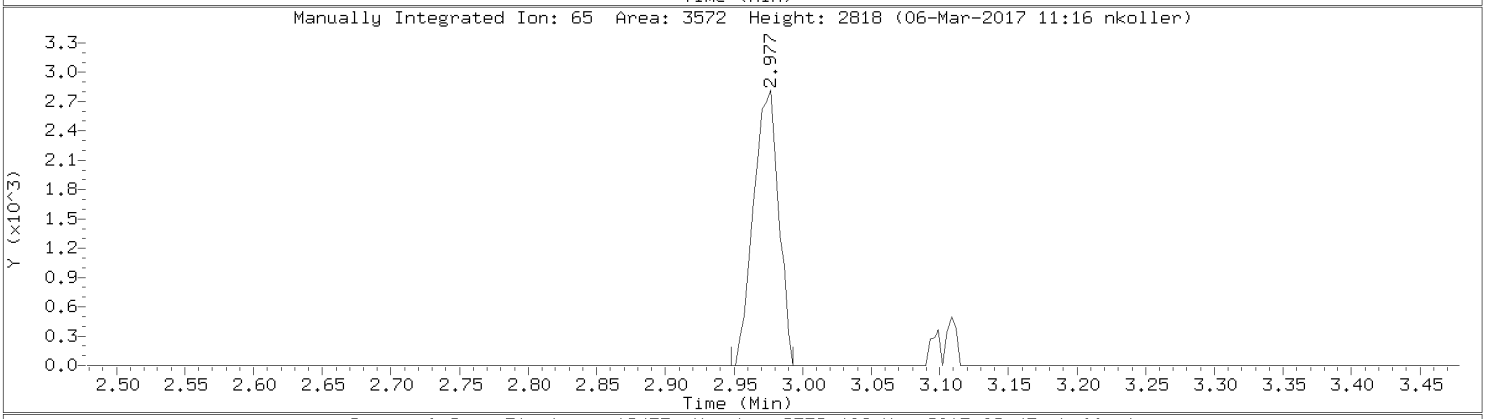
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06418.D
Injection Date: 05-MAR-2017 17:49
Instrument: 10airB.i
Lab Sample ID: 10380193001

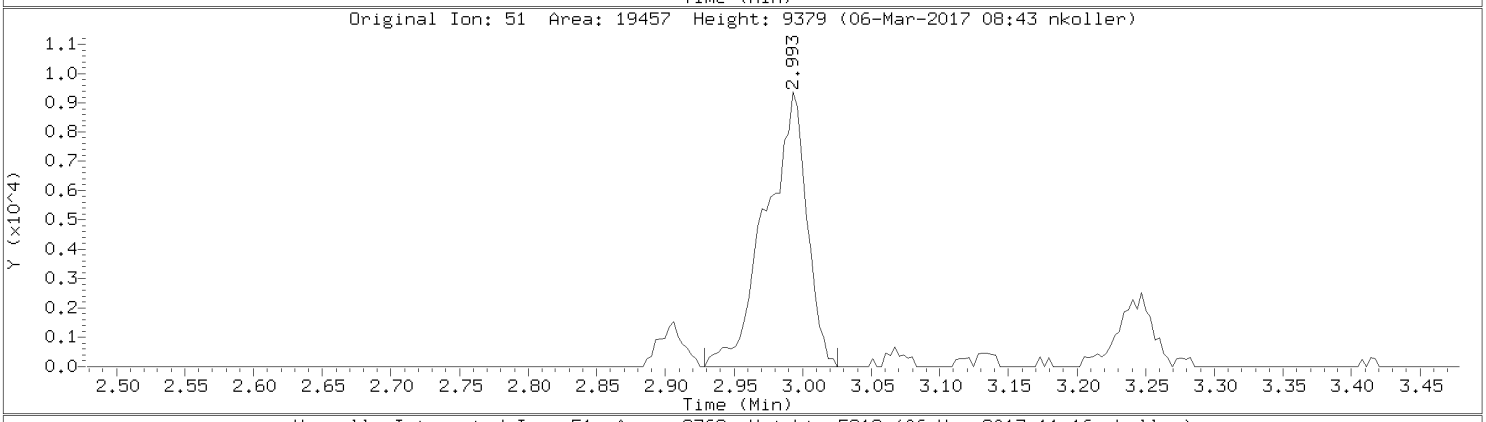


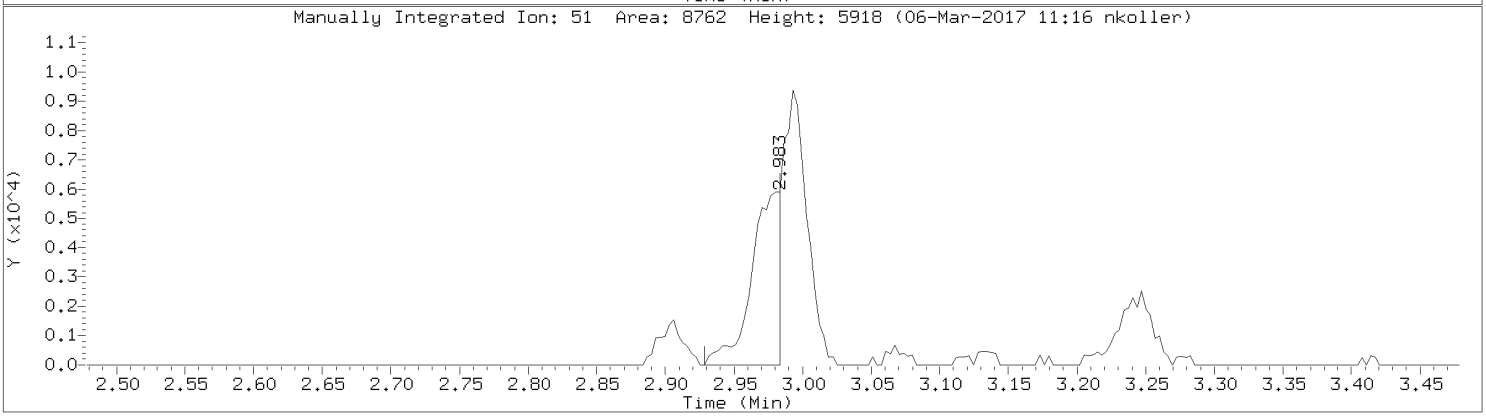
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06418.D
Injection Date: 05-MAR-2017 17:49
Instrument: 10airB.i
Lab Sample ID: 10380193001

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

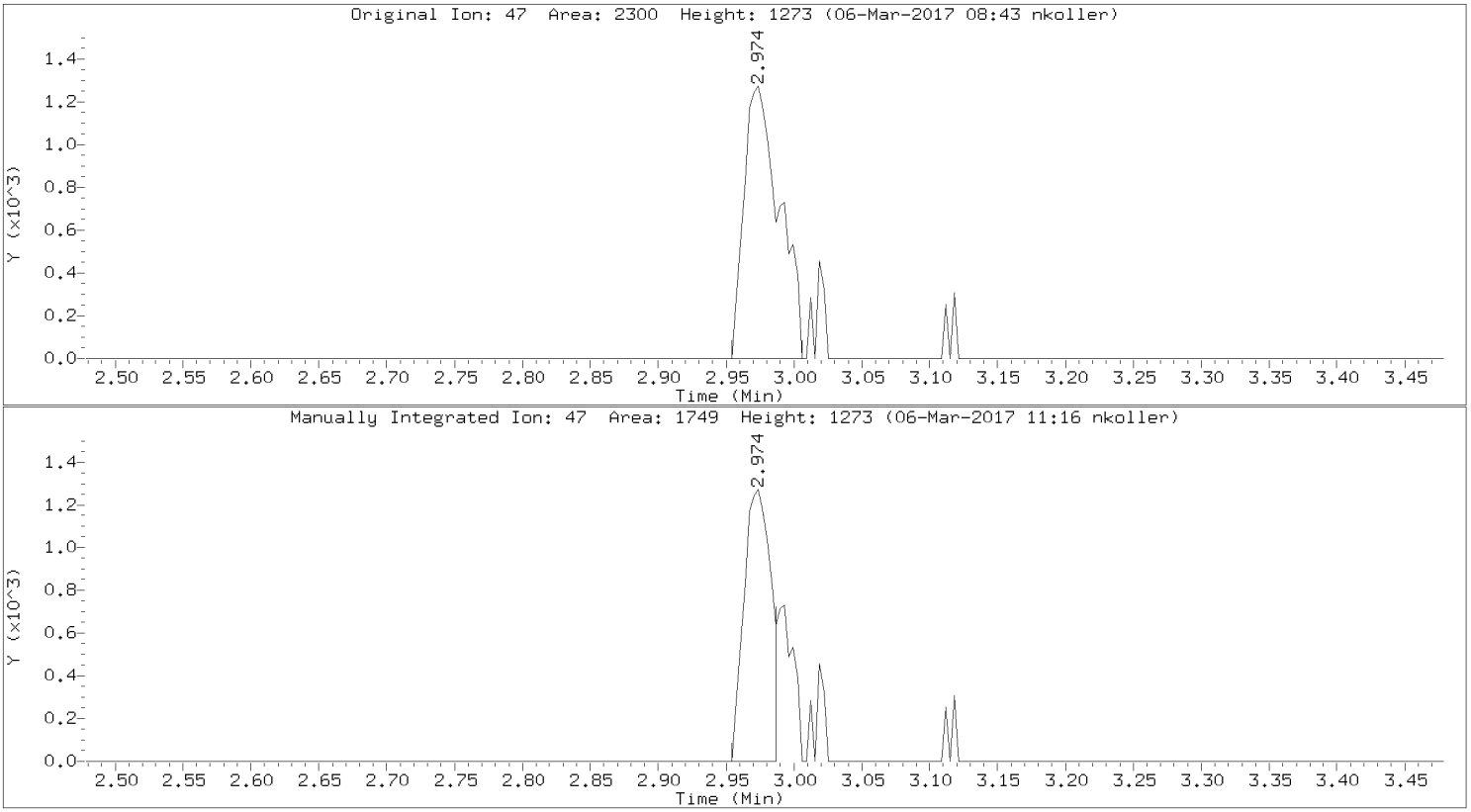






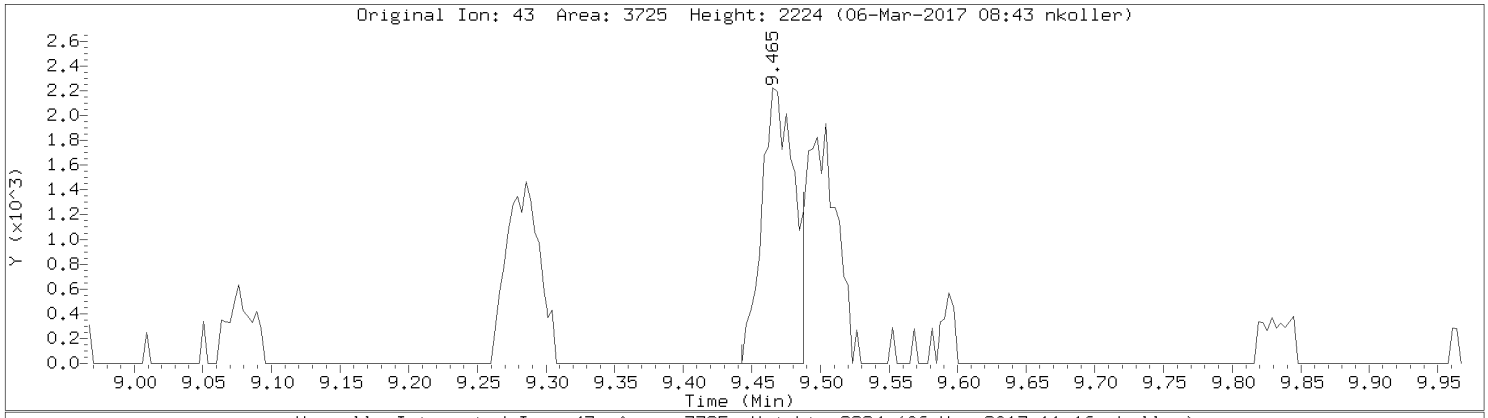


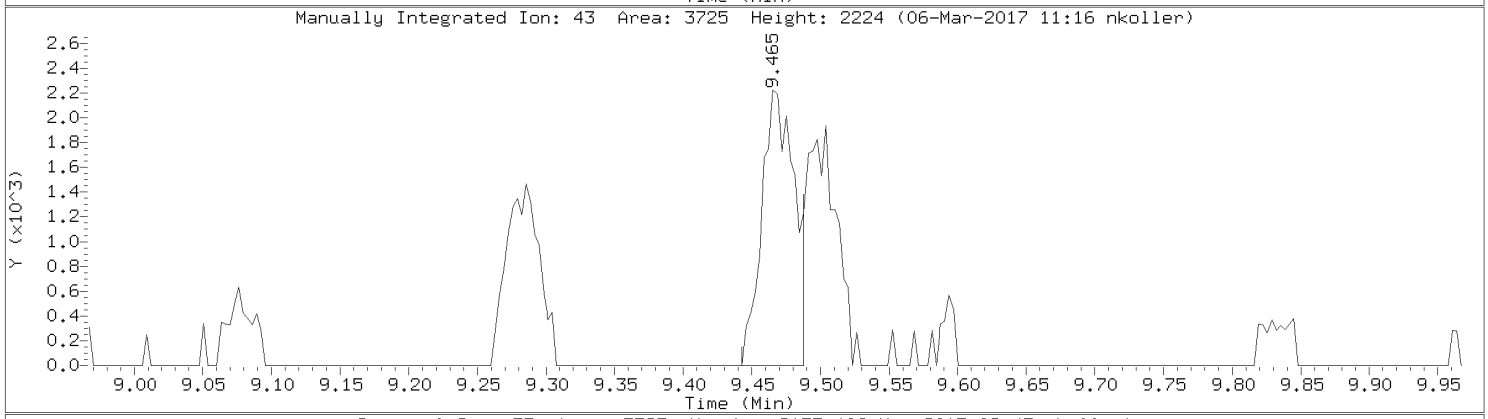
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06418.D
Injection Date: 05-MAR-2017 17:49
Instrument: 10airB.i
Lab Sample ID: 10380193001

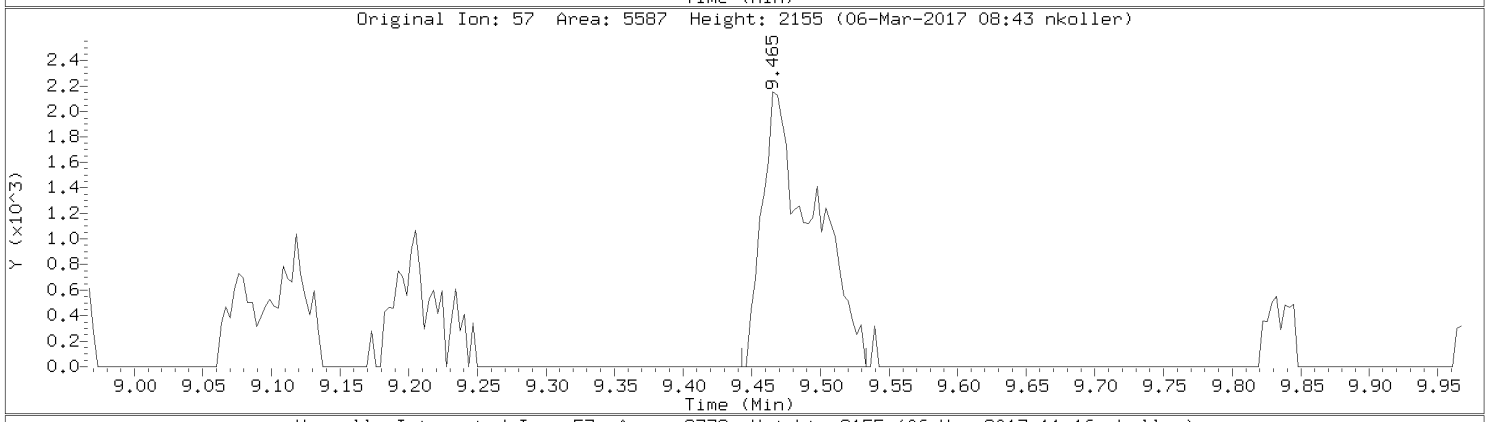


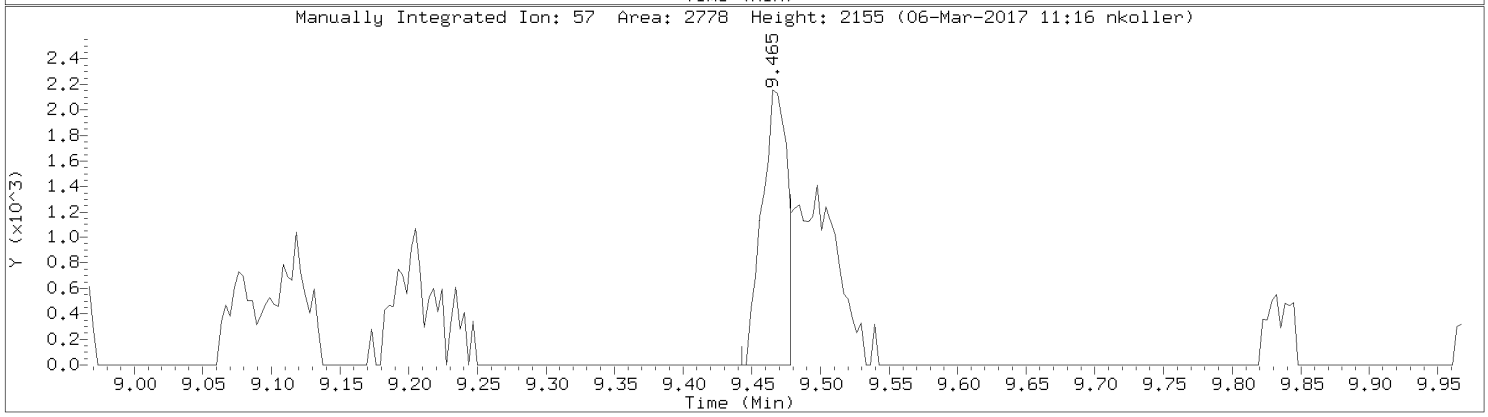
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06418.D
Injection Date: 05-MAR-2017 17:49
Instrument: 10airB.i
Lab Sample ID: 10380193001

Compound: n-Nonane
CAS Number: 111-84-2

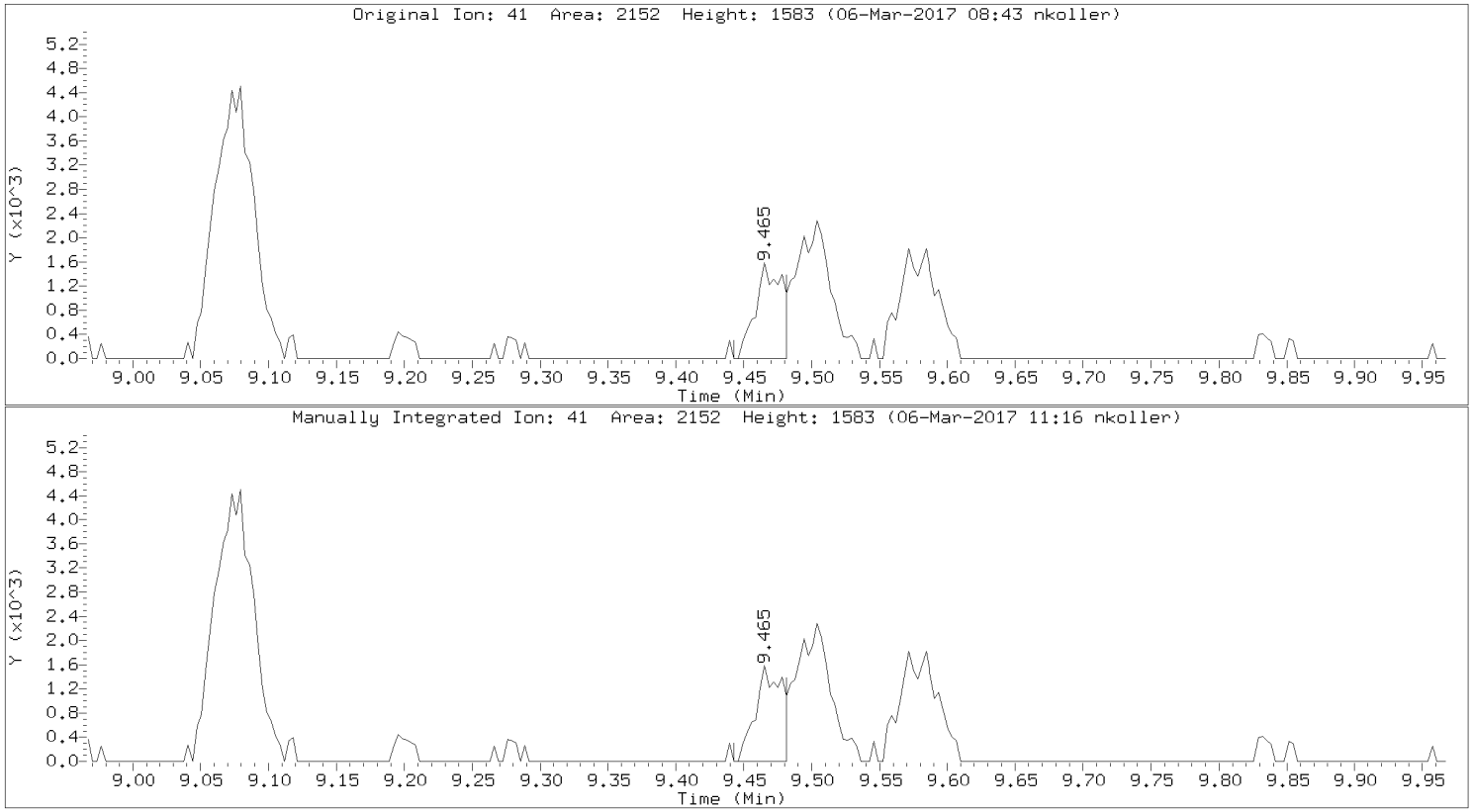








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06418.D
Injection Date: 05-MAR-2017 17:49
Instrument: 10airB.i
Lab Sample ID: 10380193001



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_5_20170223 **Lab ID: 10380193001** Collected: 02/23/17 12:27 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**13.0**	ug/m3	4.4	0.42	1.75		03/05/17 17:49	67-63-0	
Styrene	**1.8**	ug/m3	1.5	0.34	1.75		03/05/17 17:49	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/05/17 17:49	79-34-5	
Tetrachloroethene	**4.7**	ug/m3	1.2	0.49	1.75		03/05/17 17:49	127-18-4	
Toluene	**69.3**	ug/m3	1.3	0.27	1.75		03/05/17 17:49	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/05/17 17:49	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/05/17 17:49	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/05/17 17:49	79-00-5	
Trichloroethene	**1.2**	ug/m3	0.96	0.48	1.75		03/05/17 17:49	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.0	0.23	1.75		03/05/17 17:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.53**	ug/m3	2.8	0.53	1.75		03/05/17 17:49	76-13-1	
1,2,4-Trimethylbenzene	**2.1**	ug/m3	1.7	0.22	1.75		03/05/17 17:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/05/17 17:49	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/05/17 17:49	75-01-4	
m&p-Xylene	**118**	ug/m3	3.1	1.4	1.75		03/05/17 17:49	179601-23-1	
o-Xylene	**29.1**	ug/m3	1.5	0.61	1.75		03/05/17 17:49	95-47-6	

Sample: VP-NYSDEC-5_10_20170223 **Lab ID: 10380193002** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**34.2**	ug/m3	4.2	1.5	1.75		03/05/17 18:53	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/05/17 18:53	107-05-1	
Benzene	**1.4**	ug/m3	0.57	0.21	1.75		03/05/17 18:53	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/05/17 18:53	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/05/17 18:53	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/05/17 18:53	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/05/17 18:53	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/05/17 18:53	78-93-3	
Carbon disulfide	**0.74J**	ug/m3	1.1	0.18	1.75		03/05/17 18:53	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/05/17 18:53	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/05/17 18:53	108-90-7	
Chlorodifluoromethane	**15.1**	ug/m3	1.3	0.48	1.75		03/05/17 18:53	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/05/17 18:53	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/05/17 18:53	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/05/17 18:53	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 18:53	76-15-3	CL
Cyclohexane	**4.7**	ug/m3	1.2	0.55	1.75		03/05/17 18:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/05/17 18:53	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/05/17 18:53	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/05/17 18:53	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/05/17 18:53	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_10_20170223 **Lab ID: 10380193002** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/05/17 18:53	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/05/17 18:53	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	0.84	1.75		03/05/17 18:53	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/05/17 18:53	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/05/17 18:53	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/05/17 18:53	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/05/17 18:53	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/05/17 18:53	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/05/17 18:53	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/05/17 18:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/05/17 18:53	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/05/17 18:53	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 18:53	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/05/17 18:53	123-91-1	
Ethylbenzene	**1.9**	ug/m3	1.5	0.74	1.75		03/05/17 18:53	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.8	0.33	1.75		03/05/17 18:53	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/05/17 18:53	87-68-3	
n-Hexane	**13.9**	ug/m3	1.3	0.62	1.75		03/05/17 18:53	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/05/17 18:53	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/05/17 18:53	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/05/17 18:53	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/05/17 18:53	108-87-2	
Methylene Chloride	**83.9**	ug/m3	6.2	0.95	1.75		03/05/17 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/05/17 18:53	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/05/17 18:53	1634-04-4	
2-Propanol	**6.1**	ug/m3	4.4	0.42	1.75		03/05/17 18:53	67-63-0	
Styrene	**0.85J**	ug/m3	1.5	0.34	1.75		03/05/17 18:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/05/17 18:53	79-34-5	
Tetrachloroethene	**1.8**	ug/m3	1.2	0.49	1.75		03/05/17 18:53	127-18-4	
Toluene	**26.5**	ug/m3	1.3	0.27	1.75		03/05/17 18:53	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/05/17 18:53	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/05/17 18:53	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/05/17 18:53	79-00-5	
Trichloroethene	**9.6**	ug/m3	0.96	0.48	1.75		03/05/17 18:53	79-01-6	
Trichlorofluoromethane	**1.6J**	ug/m3	2.0	0.23	1.75		03/05/17 18:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.53**	ug/m3	2.8	0.53	1.75		03/05/17 18:53	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.22	1.75		03/05/17 18:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/05/17 18:53	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/05/17 18:53	75-01-4	
m&p-Xylene	**7.8**	ug/m3	3.1	1.4	1.75		03/05/17 18:53	179601-23-1	
o-Xylene	**1.8**	ug/m3	1.5	0.61	1.75		03/05/17 18:53	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D
Report Date: 06-Mar-2017 11:34

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06420.D
Lab Smp Id: 10380193002
Inj Date : 05-MAR-2017 18:53
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 20
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.005	2.979	(0.537)	20618	3.25243	5.69(QH)	
3	Chlorodifluoromethane	67	3.024	2.989	(0.540)	7400	2.40396	4.21(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.053	3.021	(0.545)	12279	0.32356	0.566	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.542	(0.633)	115827	29.1529	51.0	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.581	3.578	(0.639)	34005	3.02763	5.30	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.655	3.655	(0.653)	4807	0.16216	0.284	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.716	3.713	(0.664)	138813	8.09106	14.2	
19	Isopropyl Alcohol	45	3.774	3.764	(0.674)	24453	1.39754	2.45	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	3.950	3.951	(0.705)	8090	0.30972	0.542(Q)	
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D
Report Date: 06-Mar-2017 11:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
25	Methylene chloride	49	3.992	3.992	(0.713)	164436	13.5796	23.8	
26	Allyl Chloride	76	Compound Not Detected.						
27	Carbon Disulfide	76	4.111	4.108	(0.734)	3067	0.13449	0.235(M)	
28	trans-1,2-dichloroethene	96	Compound Not Detected.						
29	Methyl Tert Butyl Ether	73	Compound Not Detected.						
30	Vinyl Acetate	43	4.375	4.385	(0.781)	2388	0.26597	0.465	
31	1,1-Dichloroethane	63	Compound Not Detected.						(D)
$ 32	Hexane-d14(S)	66	4.484	4.481	(0.801)	330603	9.61009	9.61	
33	Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
34	n-Hexane	57	4.581	4.578	(0.818)	38229	2.21712	3.88(Q)	
35	Di-isopropyl Ether	45	Compound Not Detected.						
36	Ethyl Acetate	43	4.716	4.713	(0.842)	96101	4.33051	7.58(Q)	
37	cis-1,2-Dichloroethene	96	Compound Not Detected.						
38	Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
39	Chloroform	83	Compound Not Detected.						(D)
40	Tetrahydrofuran	42	Compound Not Detected.						(D)
41	1,1,1-Trichloroethane	97	Compound Not Detected.						
42	1,2-Dichloroethane	62	Compound Not Detected.						
43	Benzene	78	5.452	5.465	(0.974)	8680	0.24891	0.436	
44	Carbon tetrachloride	117	Compound Not Detected.						(D)
45	Cyclohexane	56	5.481	5.484	(0.979)	13474	0.77184	1.35(Q)	
46	Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
* 47	1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1081291	10.0000		
48	2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
49	Heptane	43	5.883	5.889	(1.051)	6703	0.34400	0.602	
50	1,2-Dichloropropane	63	Compound Not Detected.						(D)
51	Trichloroethene	130	5.973	5.986	(1.067)	18223	1.00304	1.76	
52	Methyl methacrylate	69	Compound Not Detected.						(D)
53	1,4-Dioxane	88	Compound Not Detected.						
54	Bromodichloromethane	83	Compound Not Detected.						
55	Methylcyclohexane	98	Compound Not Detected.						(D)
56	Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
57	cis-1,3-Dichloropropene	75	Compound Not Detected.						
58	trans-1,3-Dichloropropene	75	Compound Not Detected.						
$ 59	Toluene-d8 (S)	98	7.069	7.076	(1.262)	918655	9.49234	9.49	
60	1,1,2-Trichloroethane	97	Compound Not Detected.						
61	Toluene	91	7.147	7.153	(1.276)	172626	3.95281	6.92	
62	Methyl Butyl Ketone	43	Compound Not Detected.						(D)
63	n-Octane	43	7.577	7.584	(0.877)	6564	0.26450	0.463(Q)	
64	Dibromochloromethane	129	Compound Not Detected.						
65	1,2-Dibromoethane	107	Compound Not Detected.						
66	Tetrachloroethene	166	7.979	7.986	(0.923)	3844	0.15258	0.267	
* 67	Chlorobenzene - d5	117	8.642	8.645	(1.000)	725538	10.0000		
68	Chlorobenzene	112	Compound Not Detected.						
69	Ethyl Benzene	91	8.934	8.934	(1.034)	13047	0.24449	0.428	
70	m&p-Xylene	91	9.072	9.082	(1.050)	42437	1.01320	1.77	
71	n-Nonane	43	9.471	9.468	(1.096)	9224	0.42698	0.747	
72	Bromoform	173	Compound Not Detected.						
73	Styrene	104	9.500	9.507	(1.099)	1254	0.11155	0.195(M)	
74	o-Xylene	91	9.574	9.581	(1.108)	9911	0.23259	0.407	
75	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
76	Isopropylbenzene	105	Compound Not Detected.						(D)
77	N-Propylbenzene	91	Compound Not Detected.						(D)
78	4-Ethyltoluene	105	10.918	10.912	(1.263)	2892	0.14500	0.254(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D
Report Date: 06-Mar-2017 11:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
80	n-Decane	57	11.381	11.378	(2.032)	6293	0.45942	0.804(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.506	11.513	(1.331)	5871	0.13622	0.238	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	424573	10.6230	10.6	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.169	(1.640)	2407	0.42006	0.735(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D
Report Date: 06-Mar-2017 11:34

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06420.D
Lab Smp Id: 10380193002
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

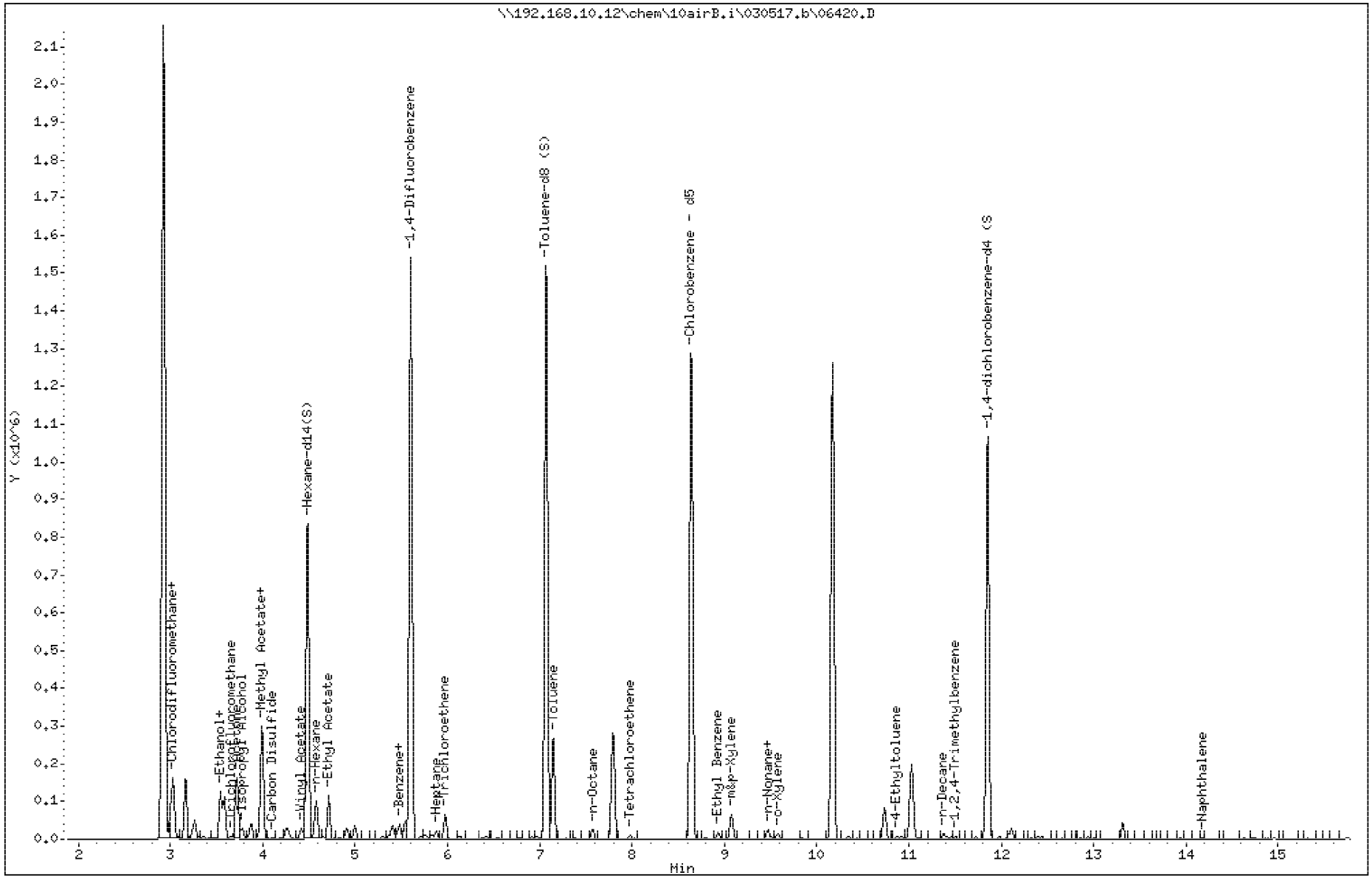
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1081291	-23.54
67 Chlorobenzene - d	951026	570616	1331436	725538	-23.71

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D
Date : 05-MAR-2017 18:53
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

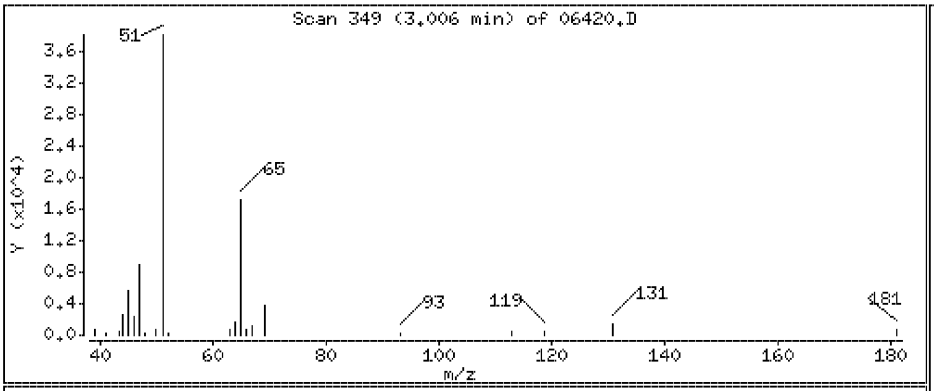
Operator: NCK

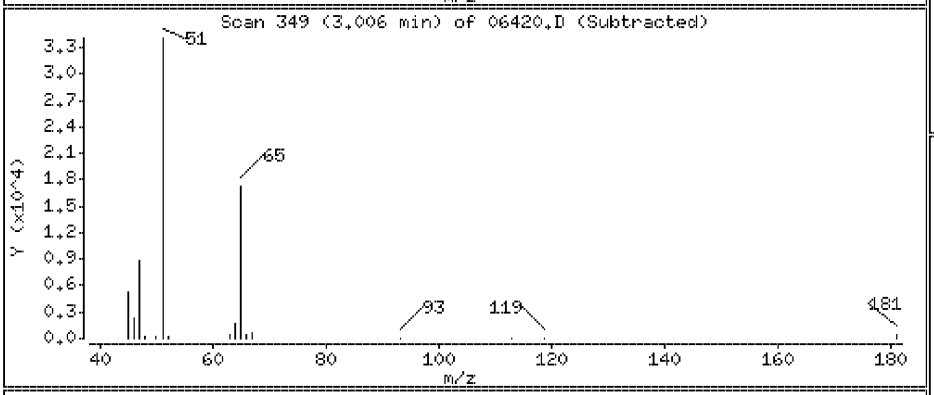
Column phase: J&W DB-5

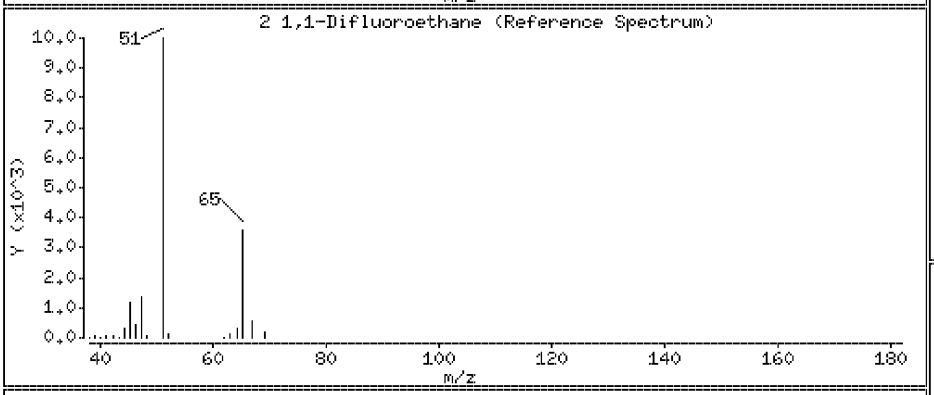
Column diameter: 0.32

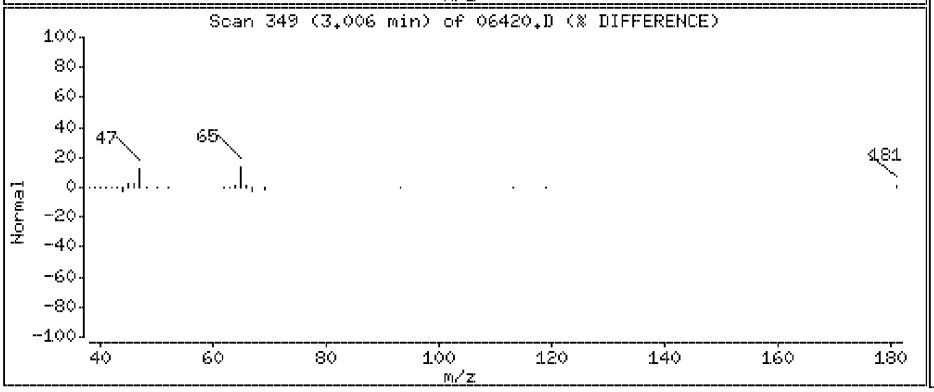
2 1,1-Difluoroethane

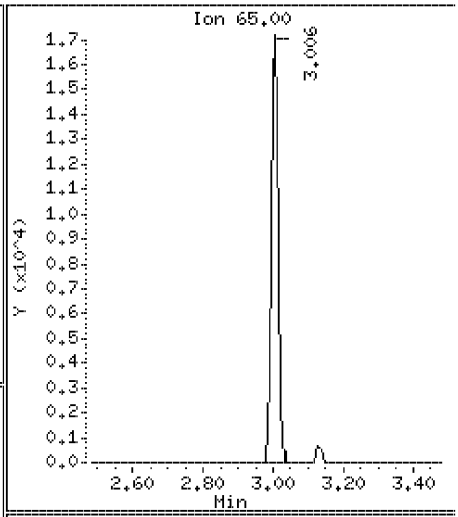
Concentration: 5.69 ppbv

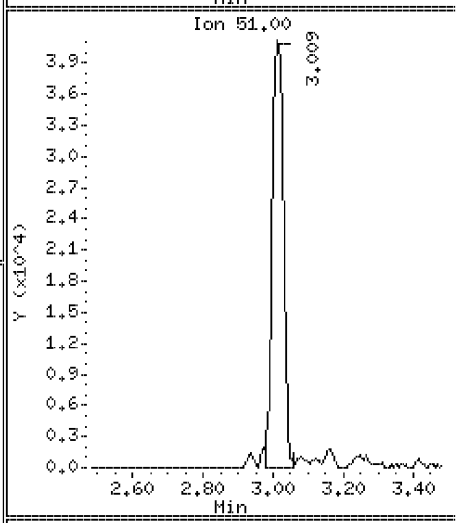


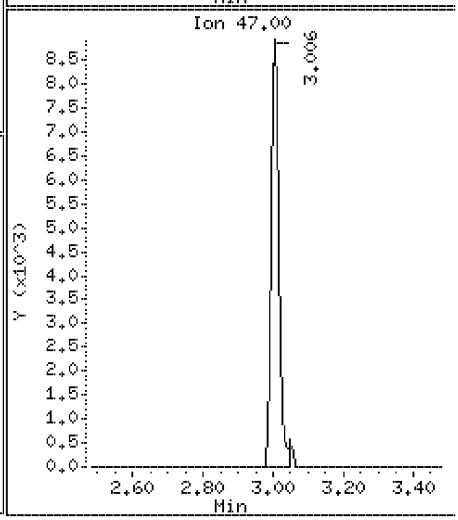












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

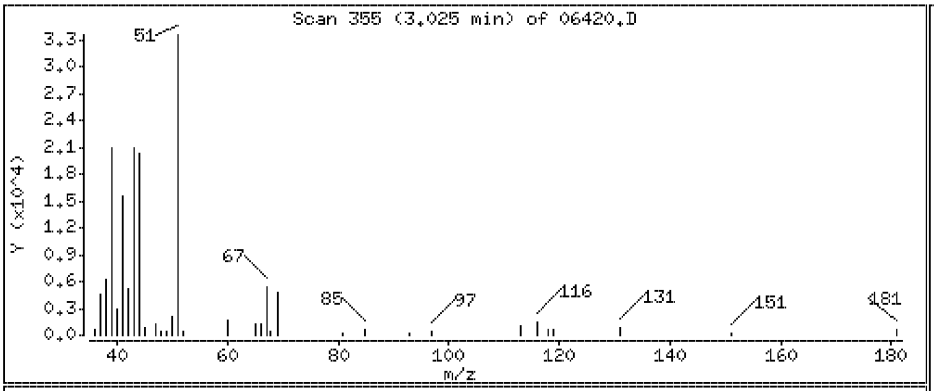
Operator: NCK

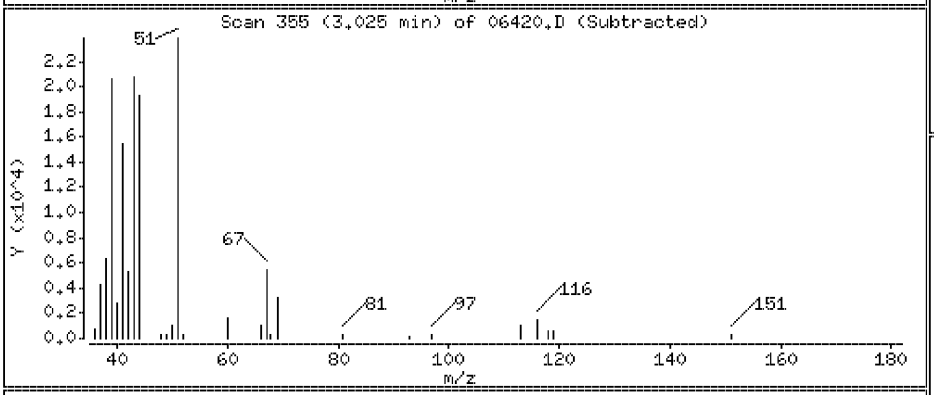
Column phase: J&W DB-5

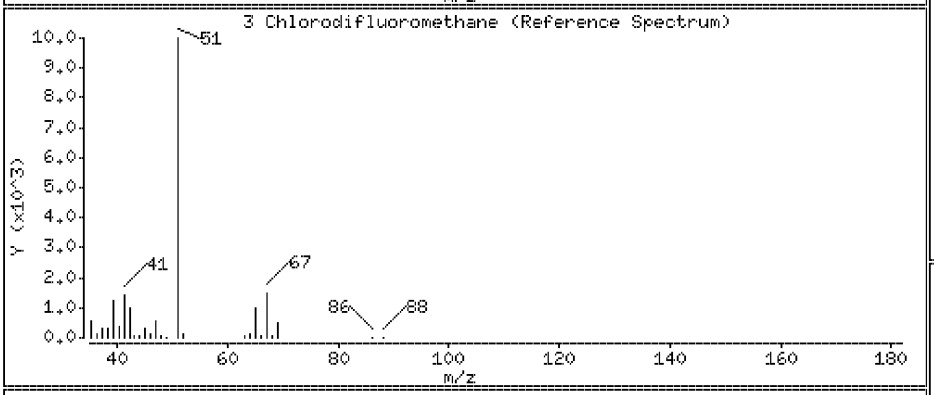
Column diameter: 0.32

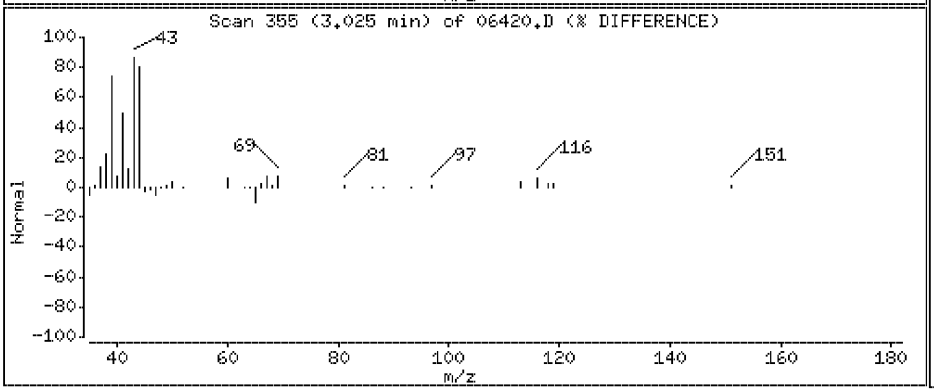
3 Chlorodifluoromethane

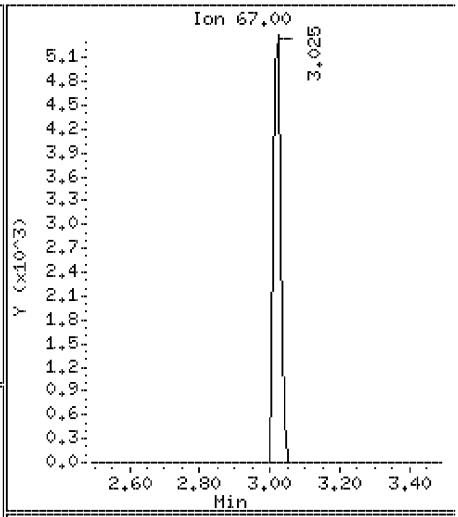
Concentration: 4.21 ppbv

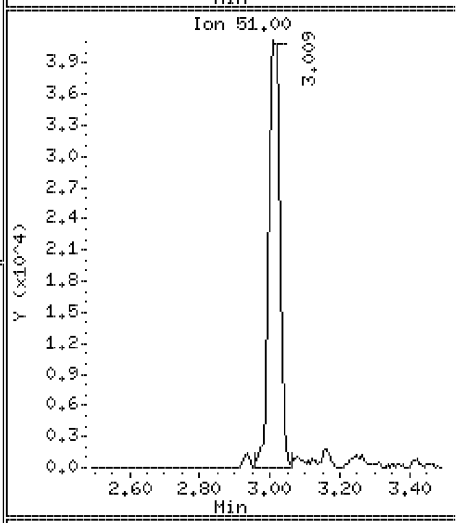


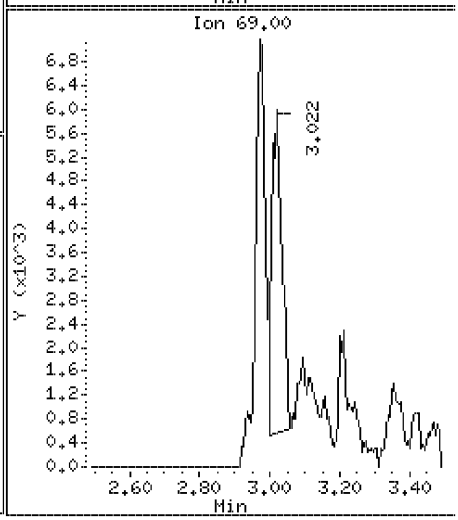












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

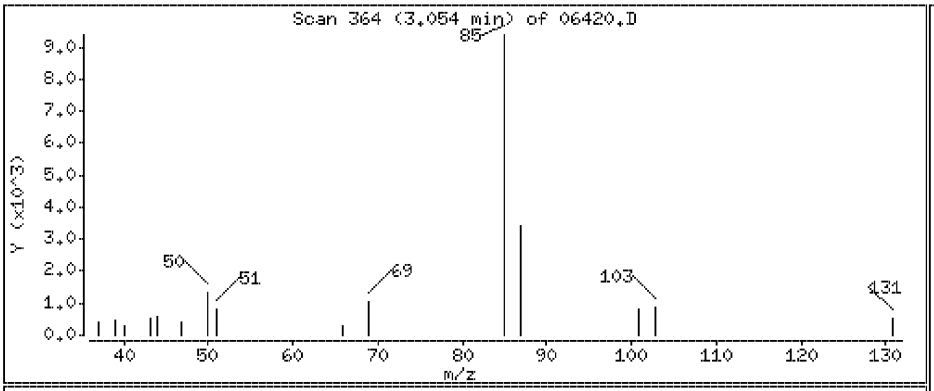
Operator: NCK

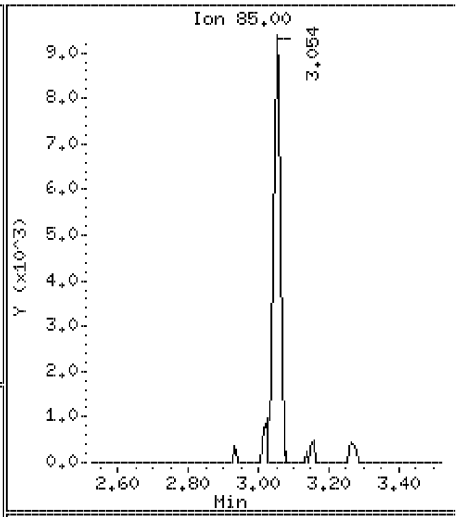
Column phase: J&W DB-5

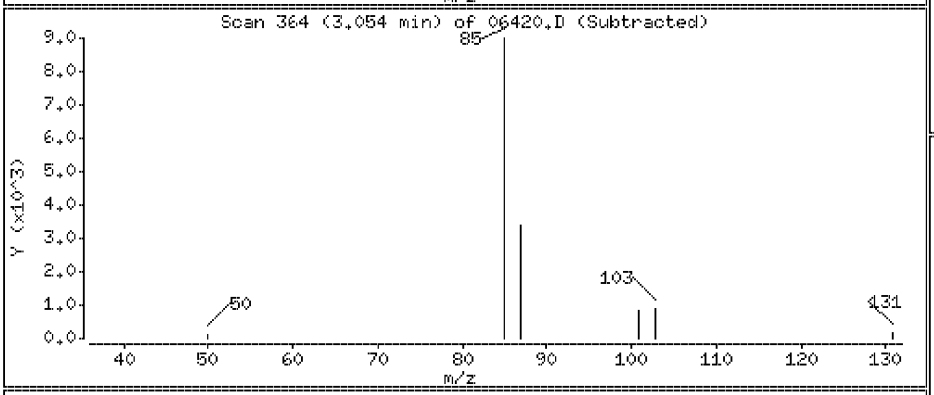
Column diameter: 0.32

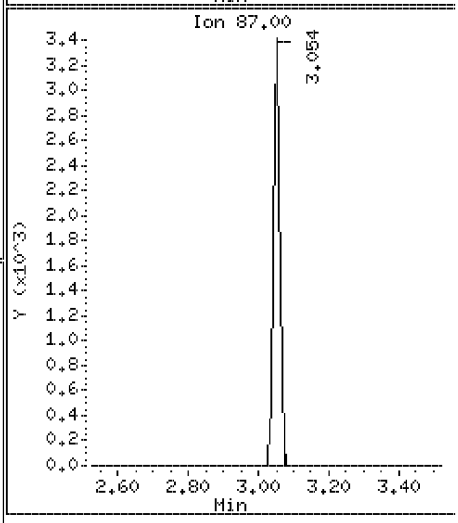
5 Dichlorodifluoromethane

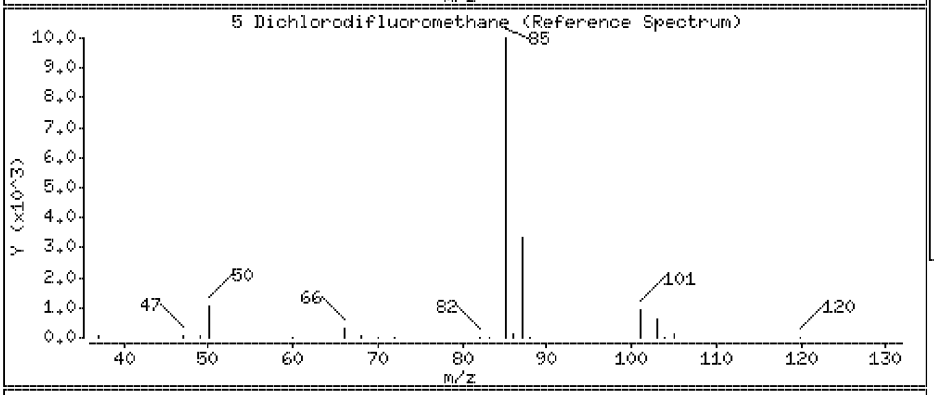
Concentration: 0.566 ppbv

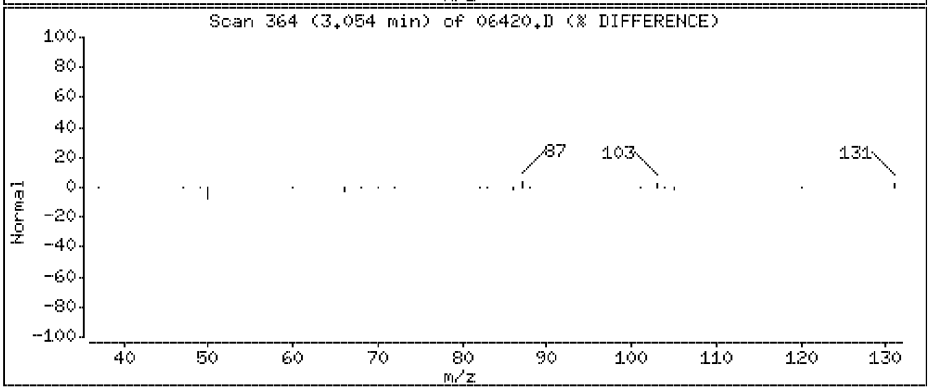












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

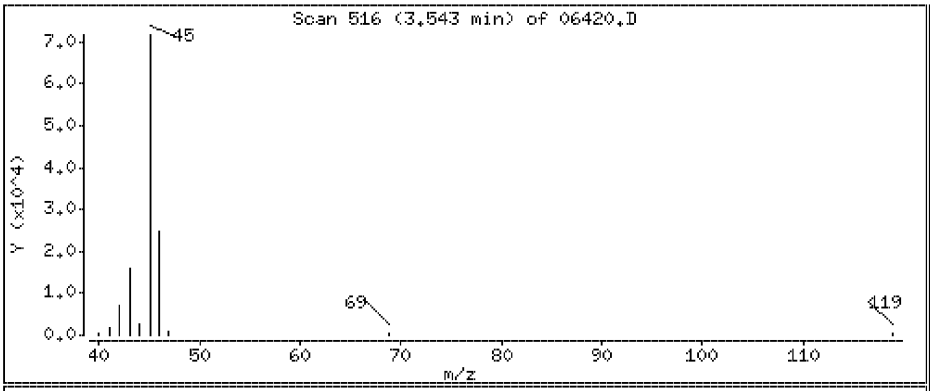
Operator: NCK

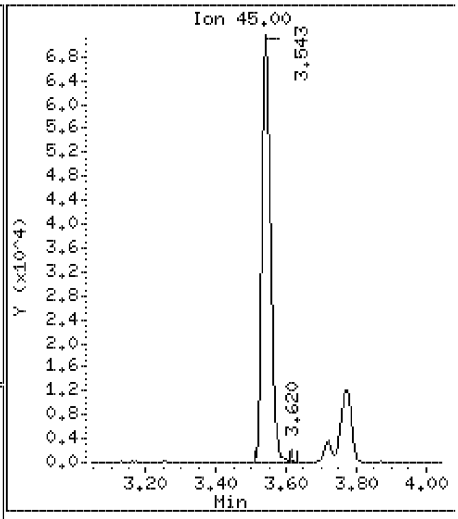
Column phase: J&W DB-5

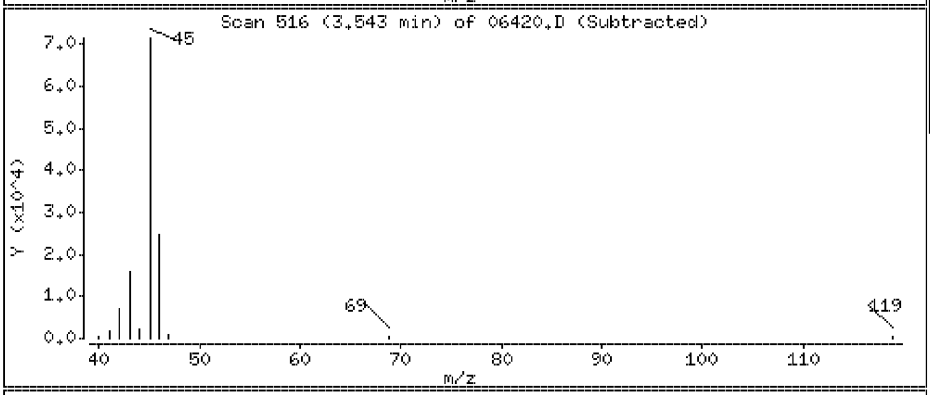
Column diameter: 0.32

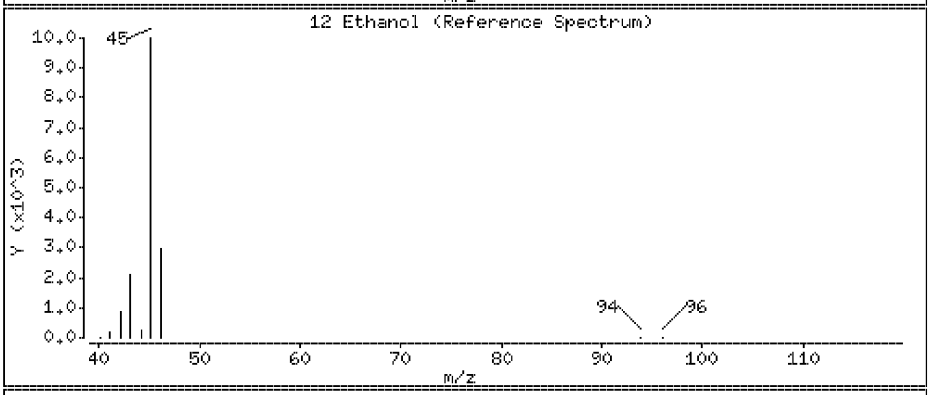
12 Ethanol

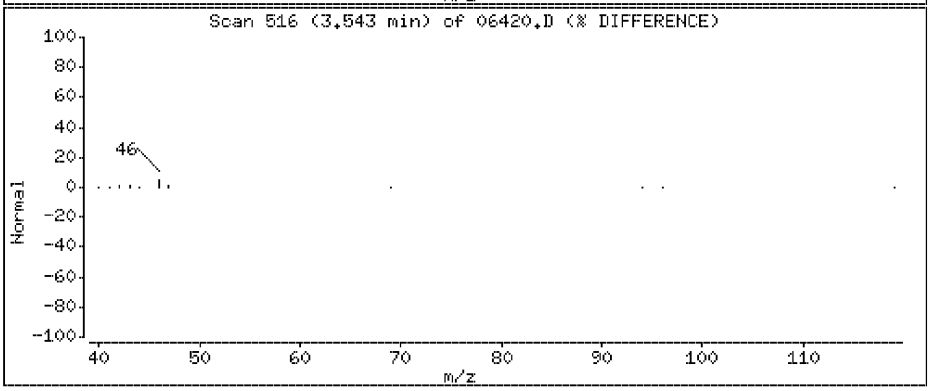
Concentration: 51.0 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

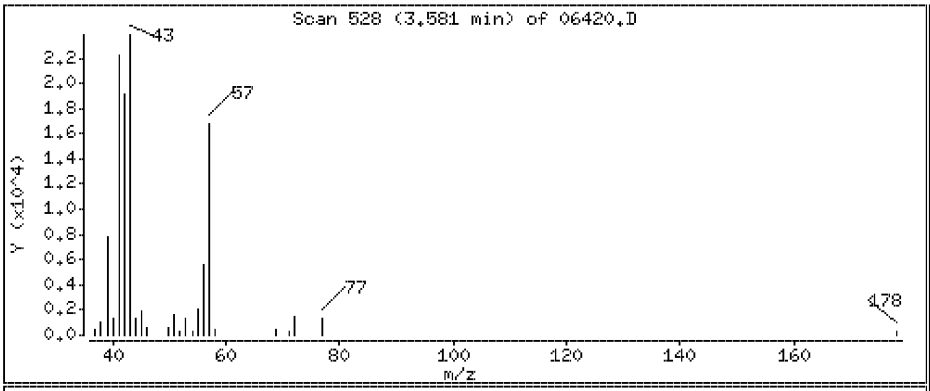
Operator: NCK

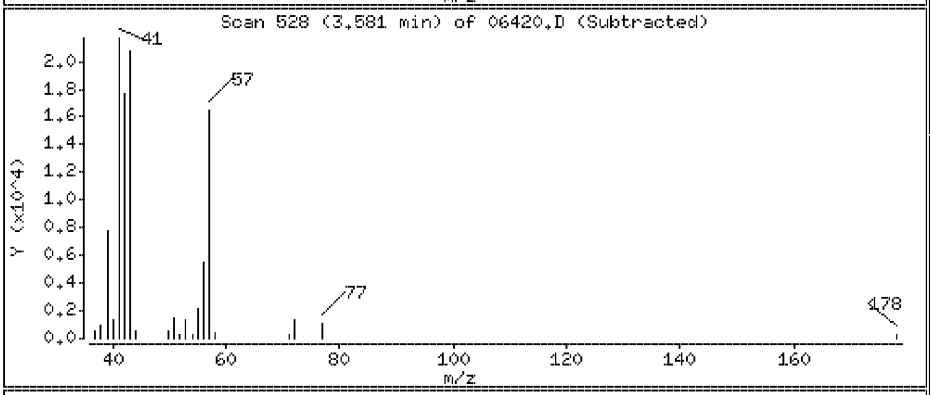
Column phase: J&W DB-5

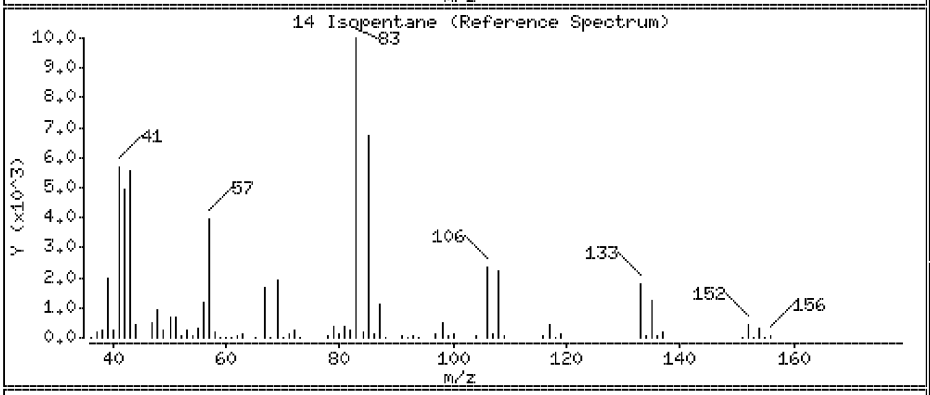
Column diameter: 0.32

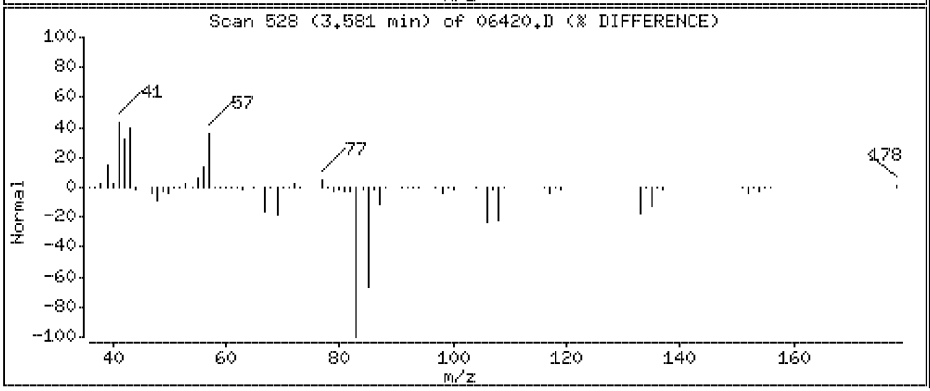
14 Isopentane

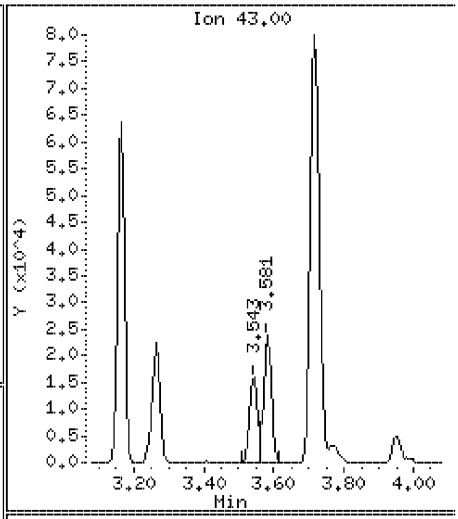
Concentration: 5.30 ppbv

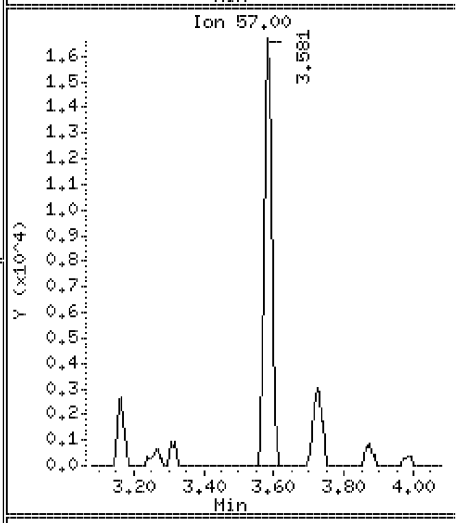


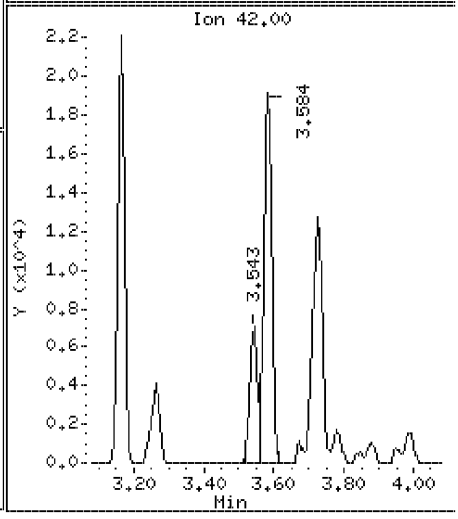












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

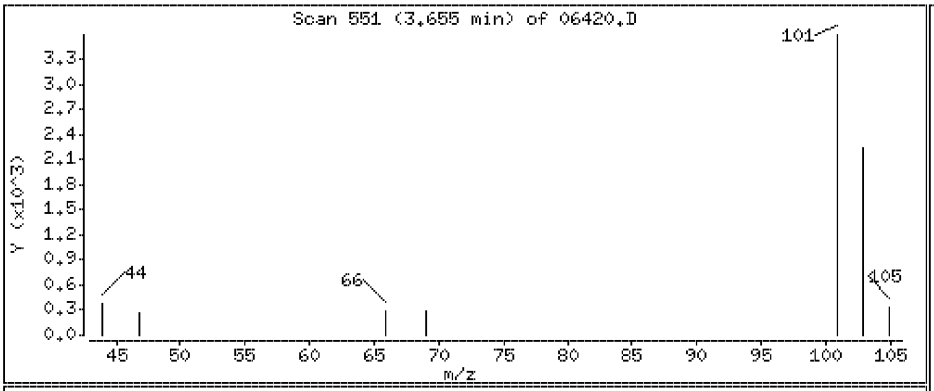
Operator: NCK

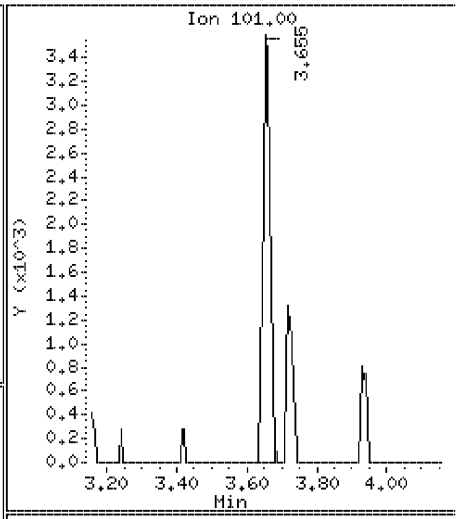
Column phase: J&W DB-5

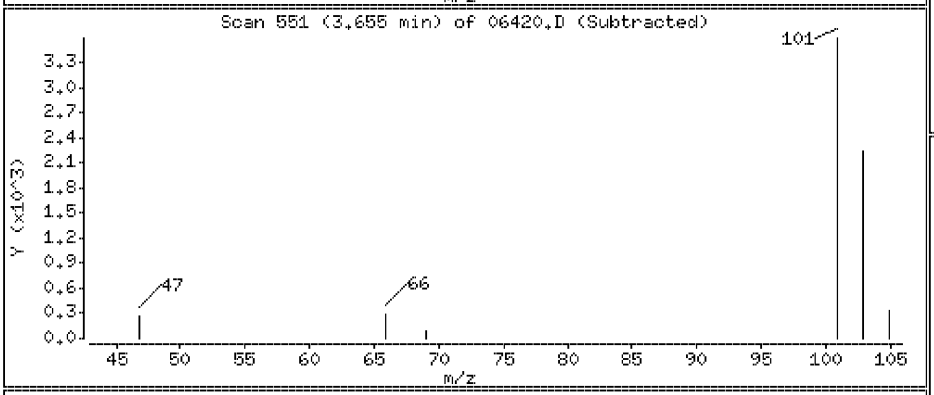
Column diameter: 0.32

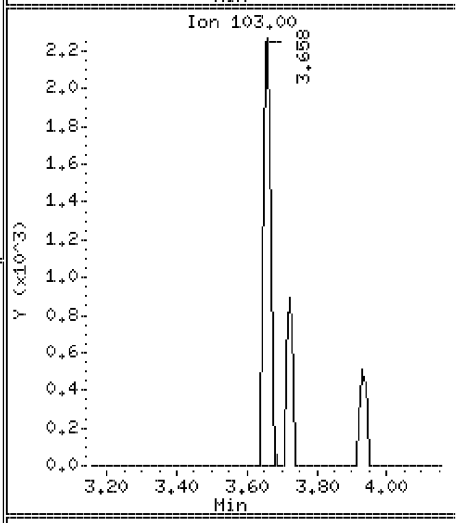
16 Trichlorofluoromethane

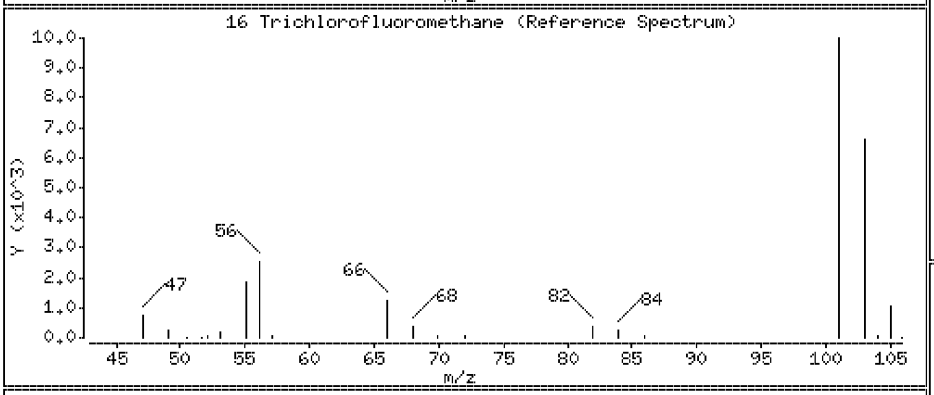
Concentration: 0.284 ppbv

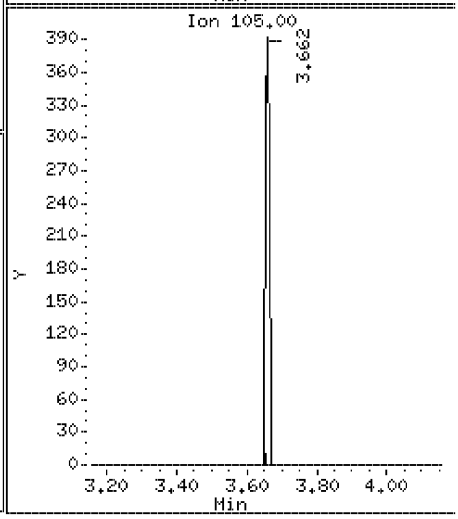


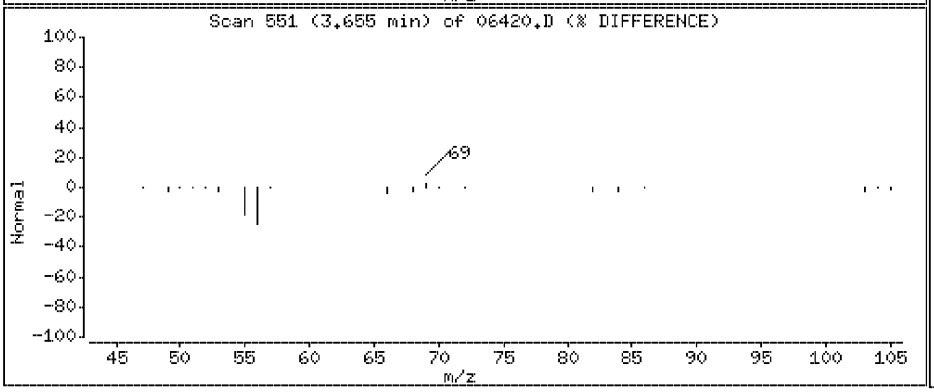












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

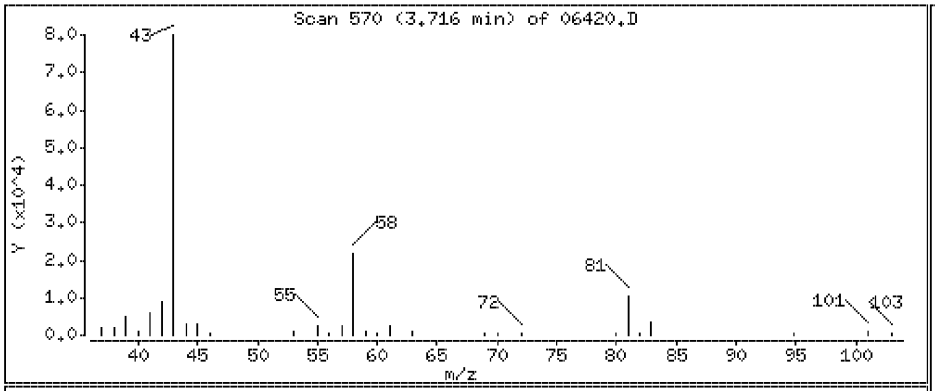
Operator: NCK

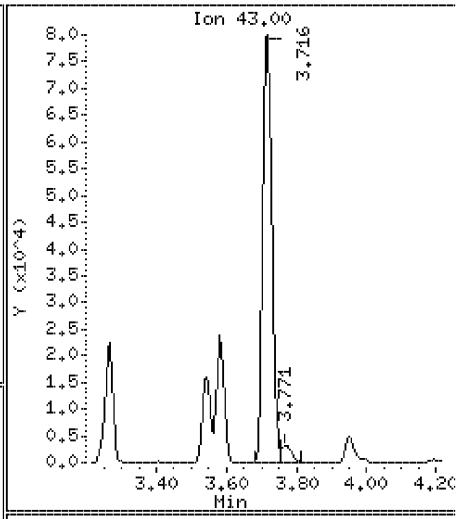
Column phase: J&W DB-5

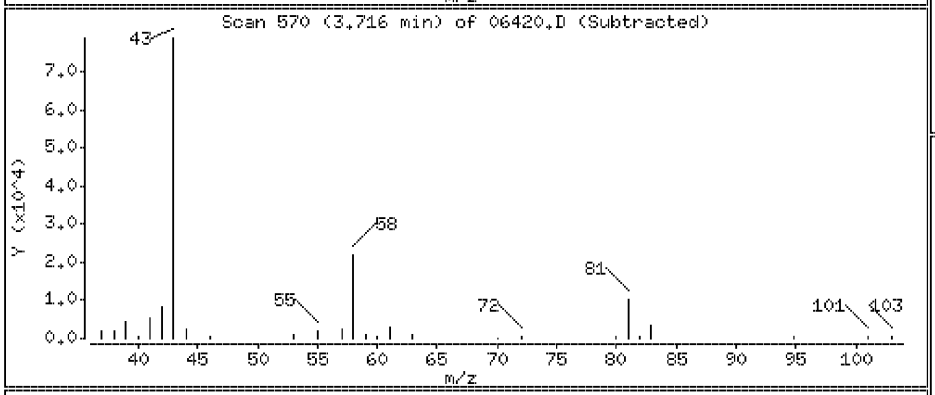
Column diameter: 0.32

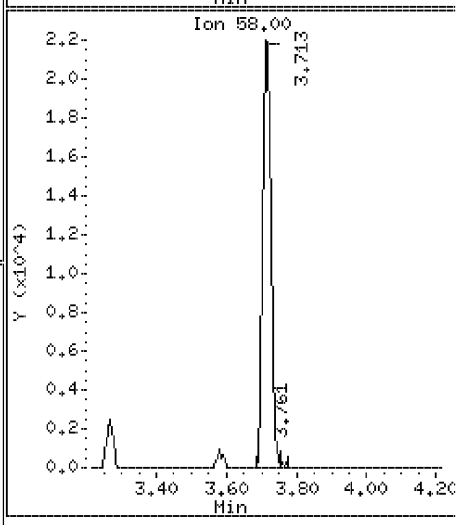
18 Acetone

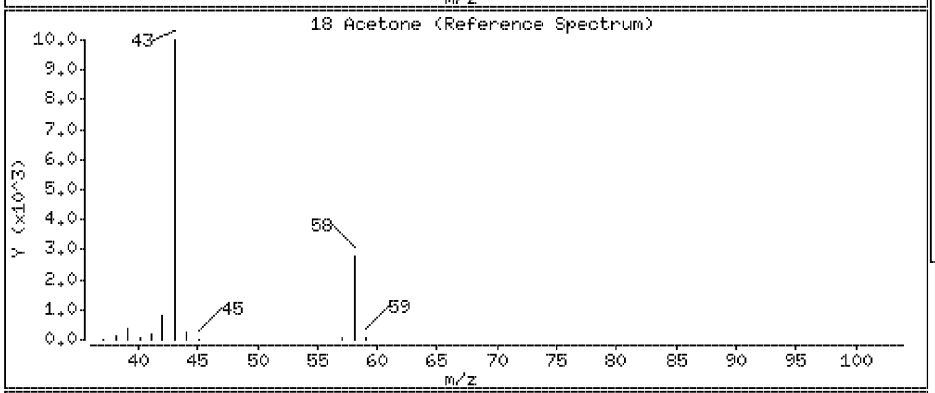
Concentration: 14.2 ppbv

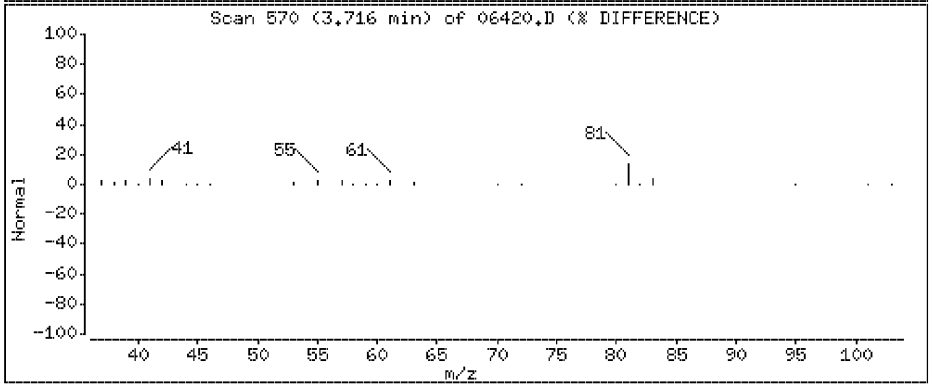












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

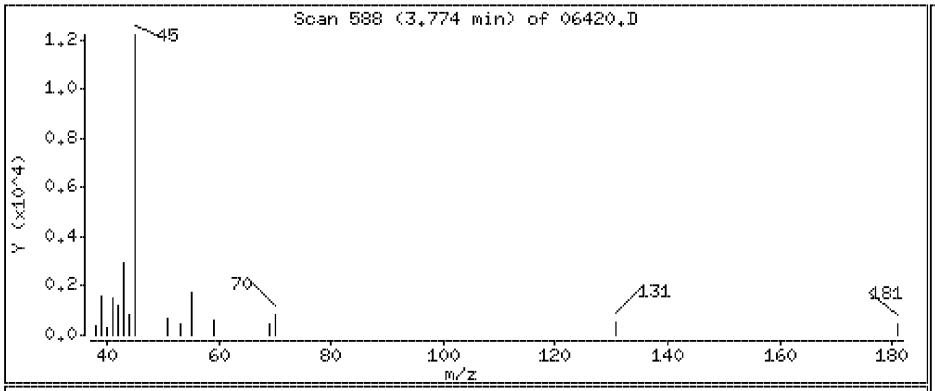
Operator: NCK

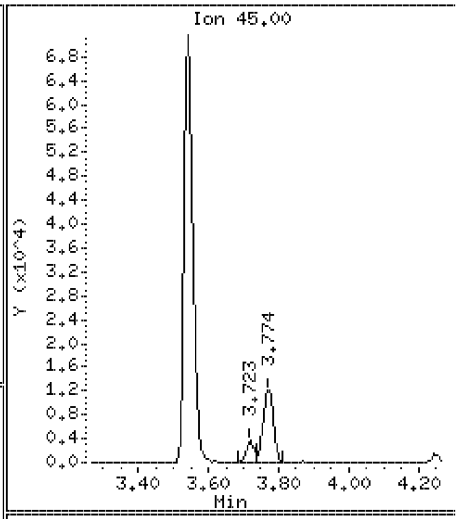
Column phase: J&W DB-5

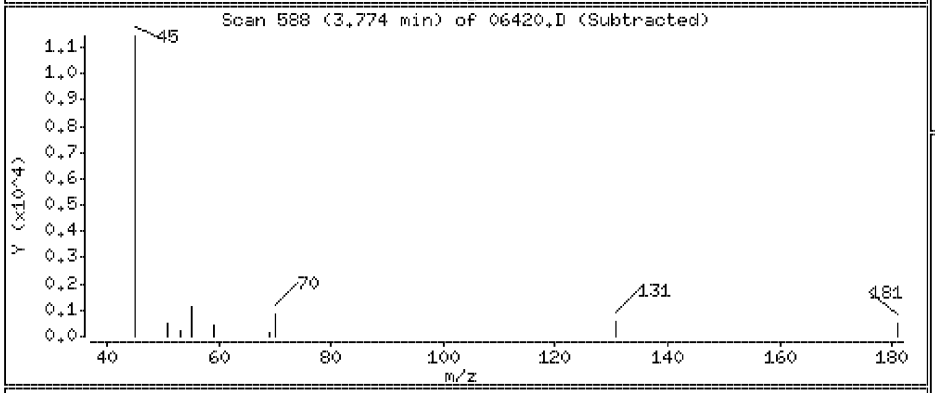
Column diameter: 0.32

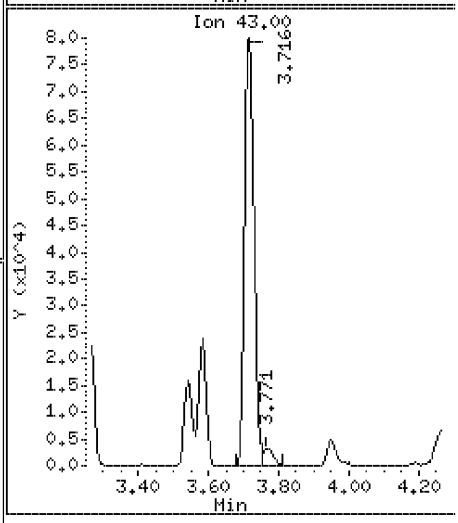
19 Isopropyl Alcohol

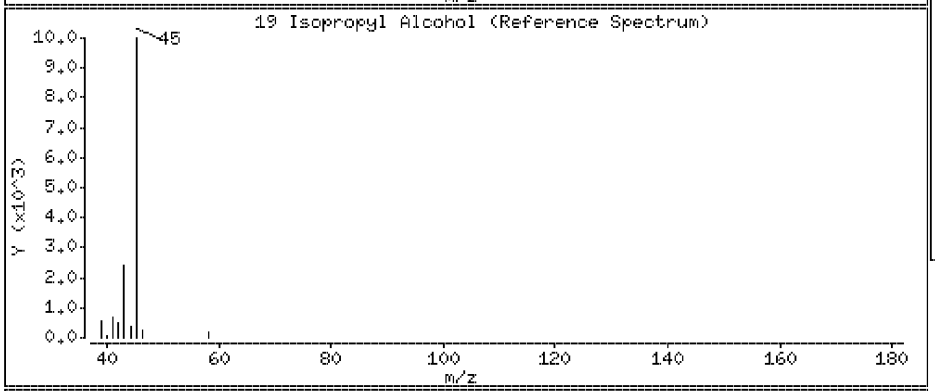
Concentration: 2.45 ppbv

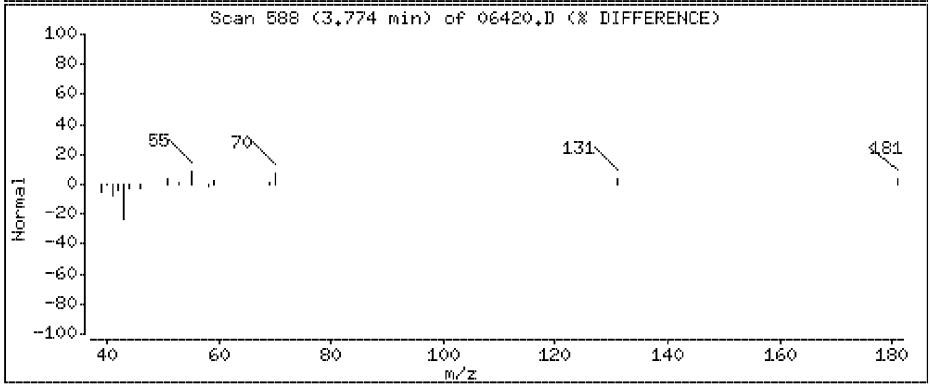












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

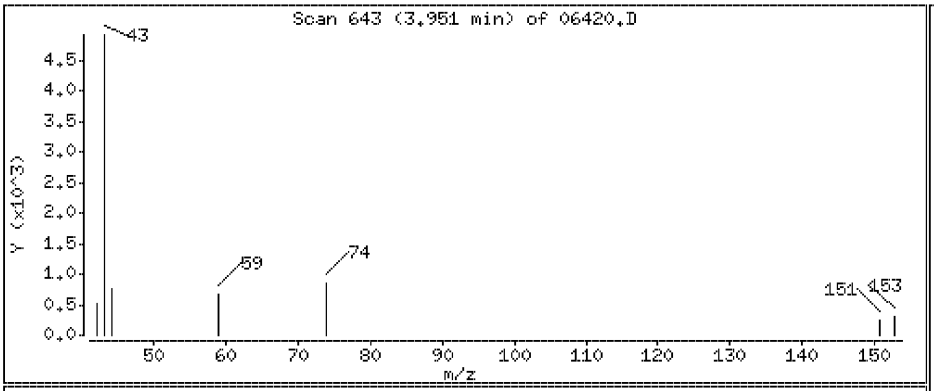
Operator: NCK

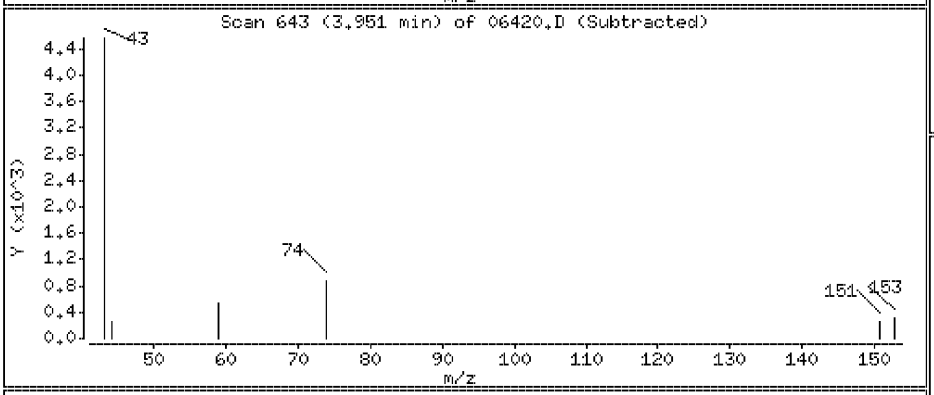
Column phase: J&W DB-5

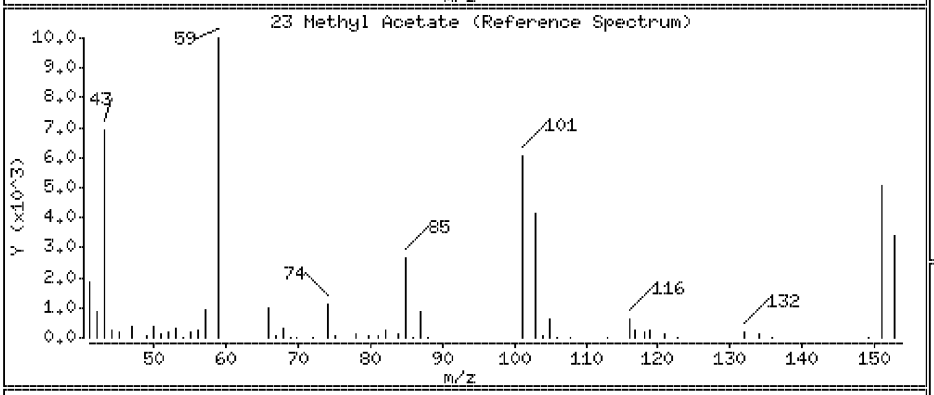
Column diameter: 0.32

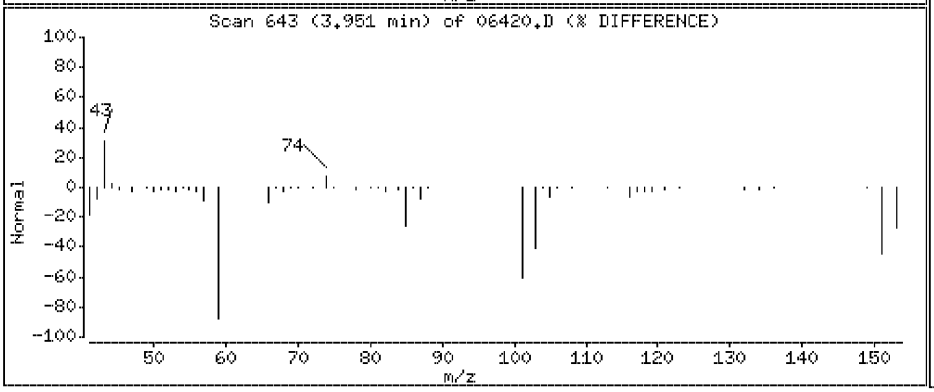
23 Methyl Acetate

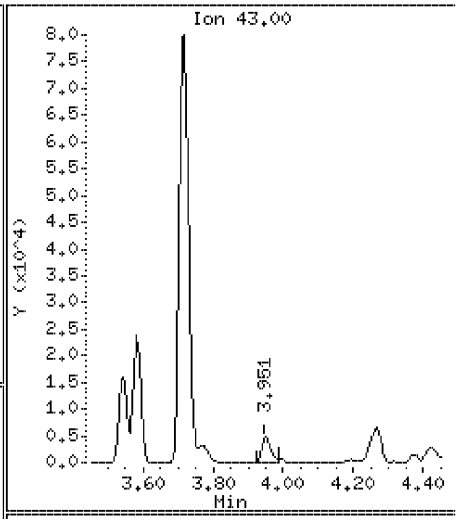
Concentration: 0.542 ppbv

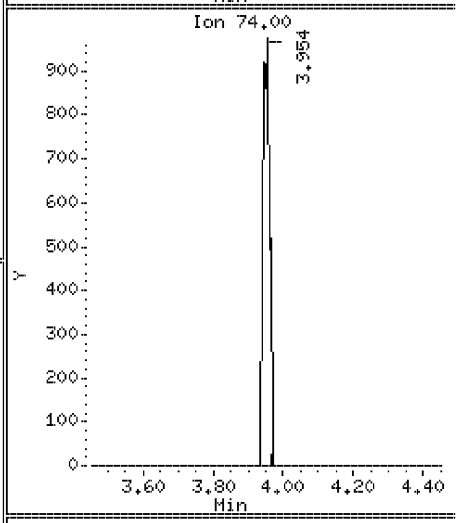


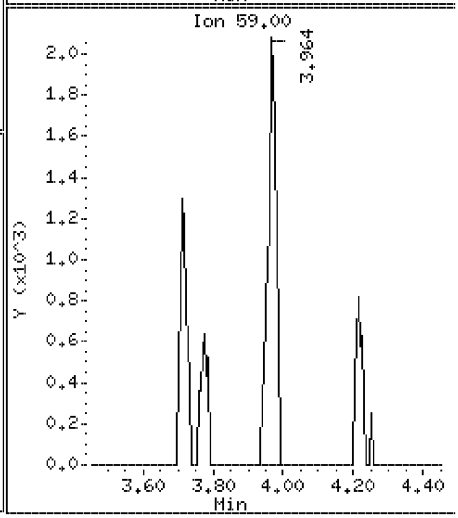












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

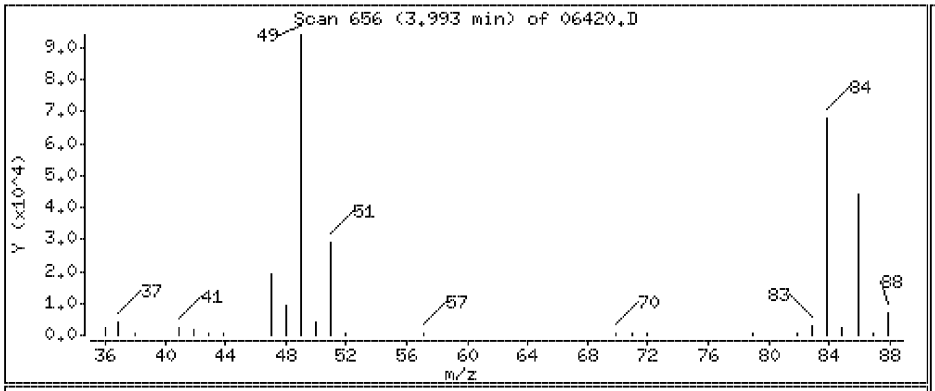
Operator: NCK

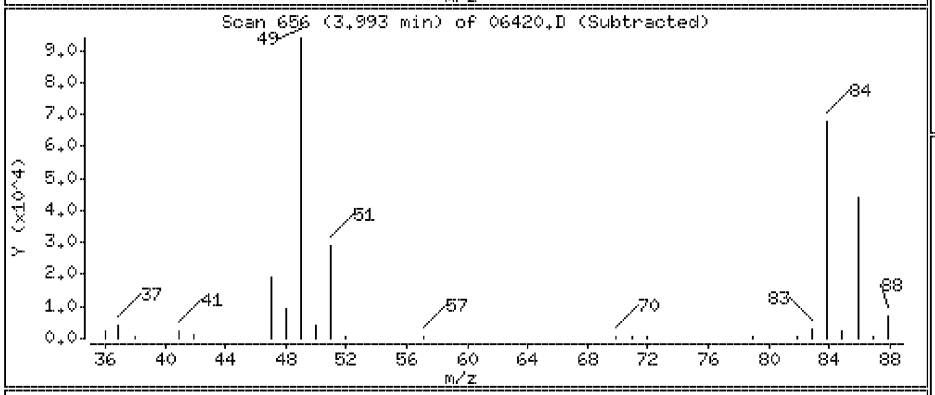
Column phase: J&W DB-5

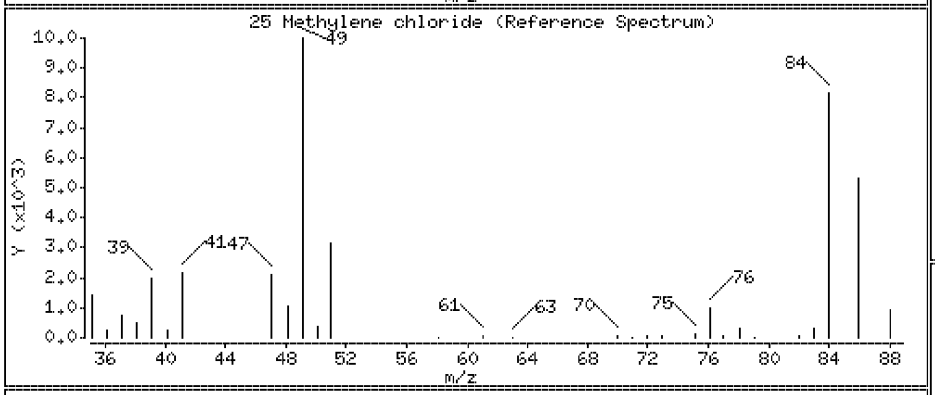
Column diameter: 0.32

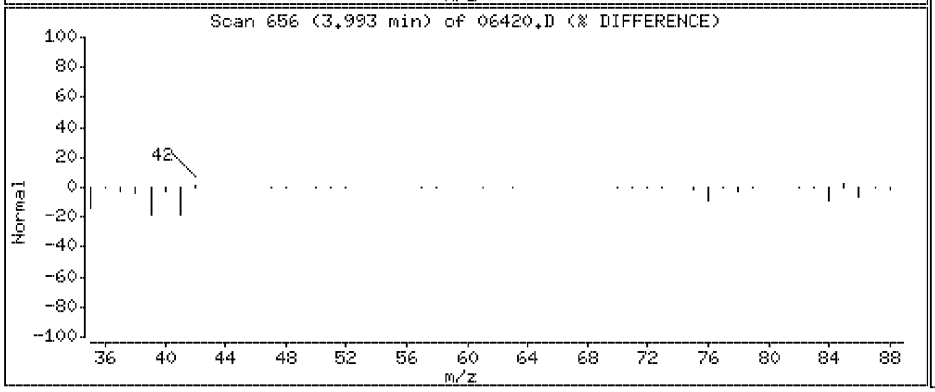
25 Methylene chloride

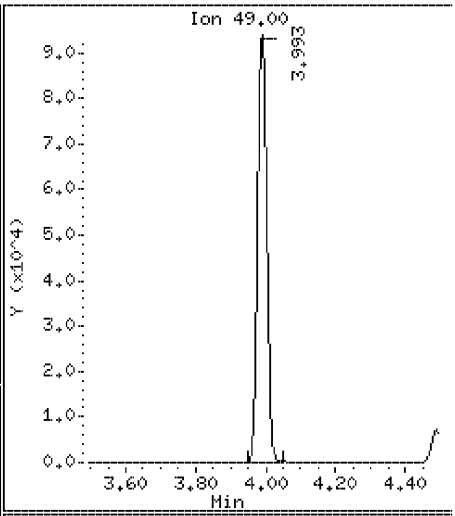
Concentration: 23.8 ppbv

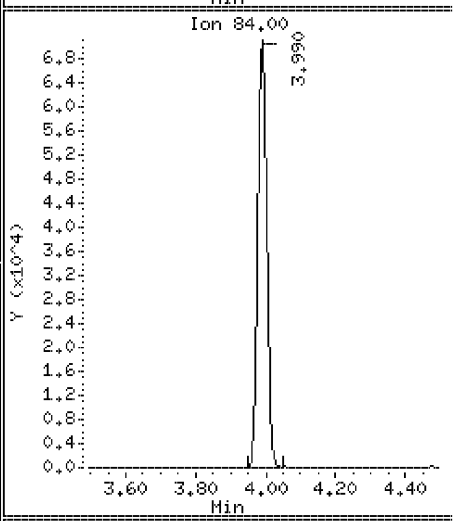


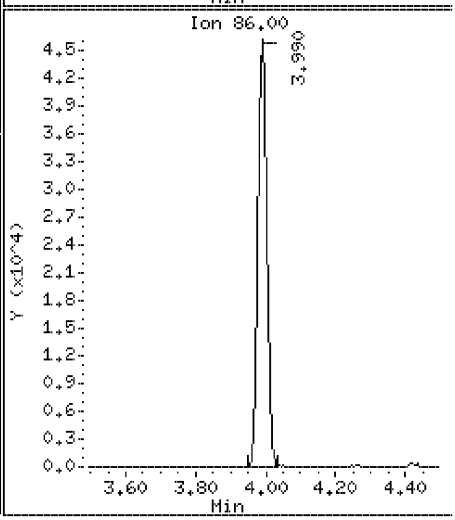












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

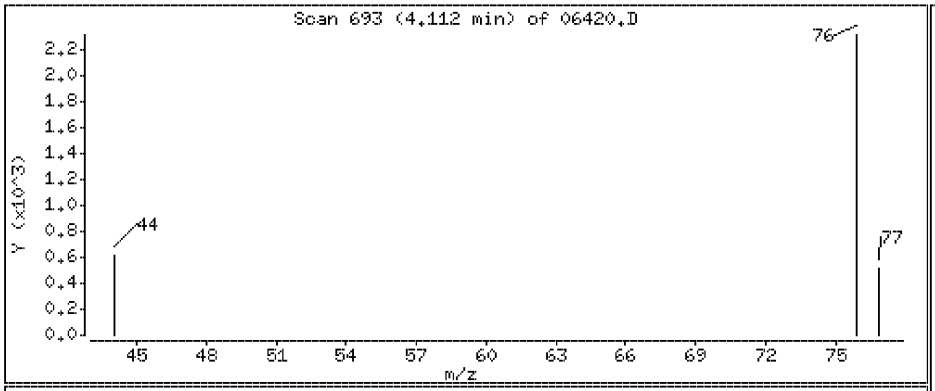
Operator: NCK

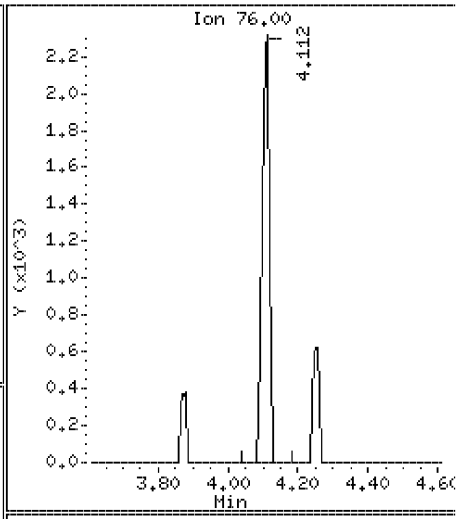
Column phase: J&W DB-5

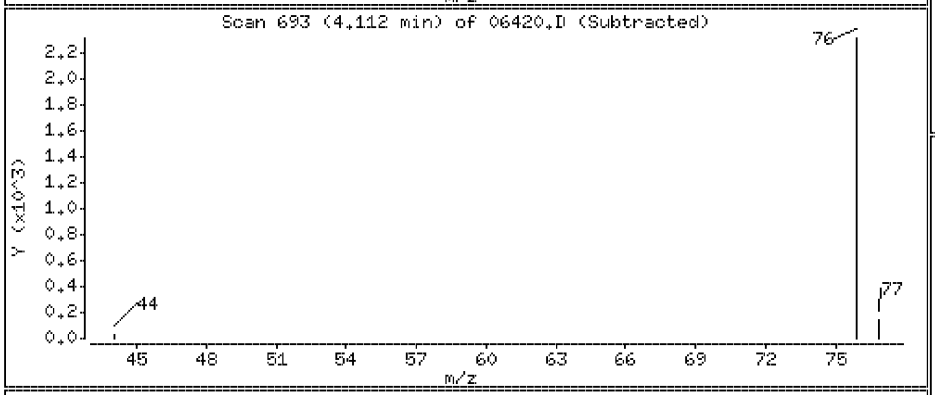
Column diameter: 0.32

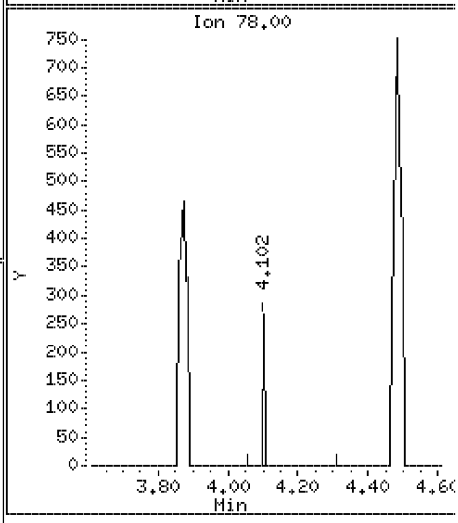
27 Carbon Disulfide

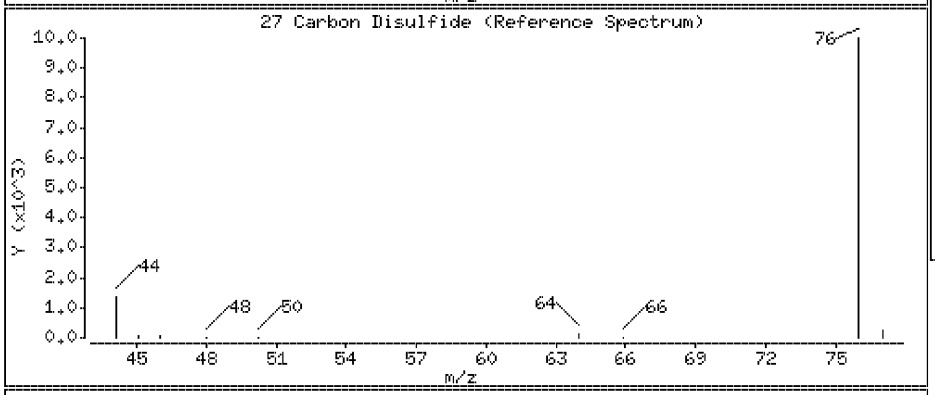
Concentration: 0.235 ppbv

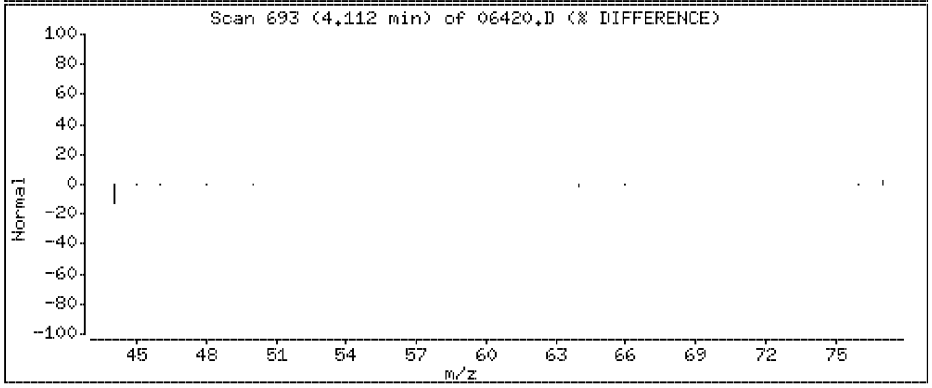












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

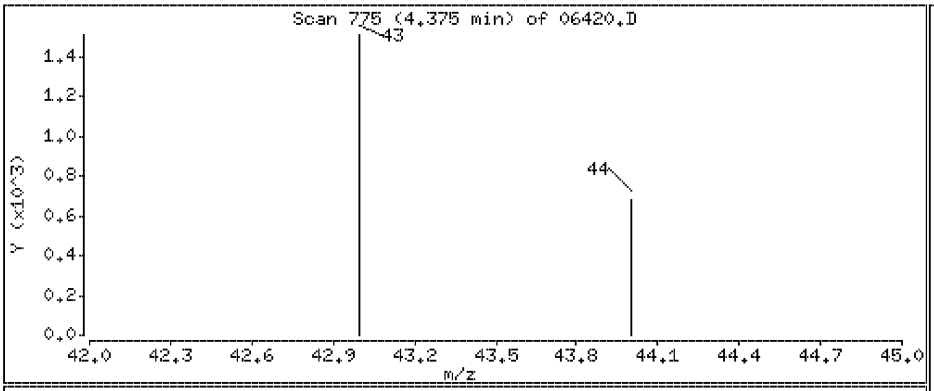
Operator: NCK

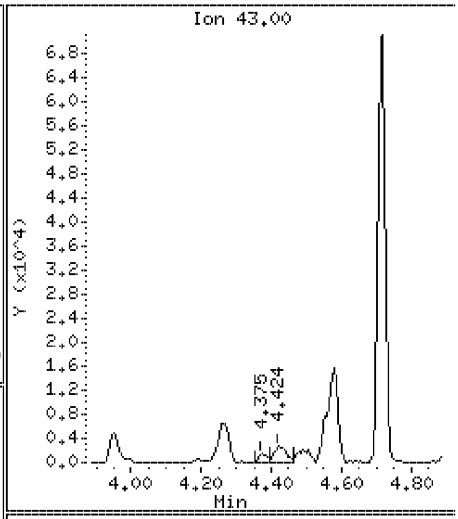
Column phase: J&W DB-5

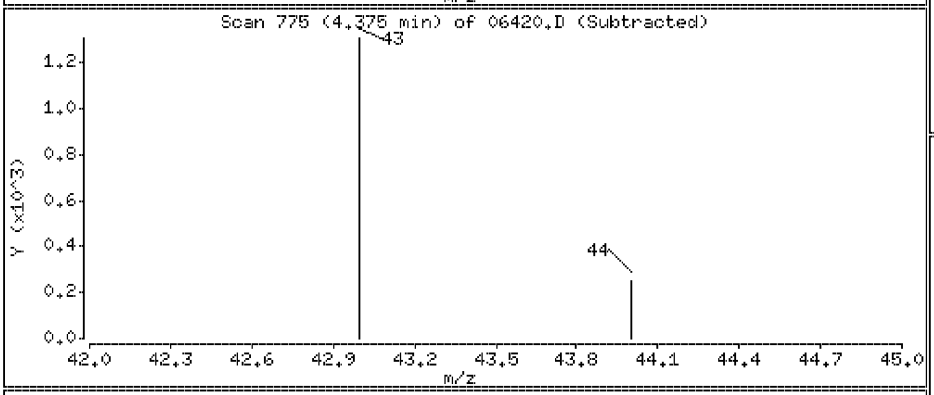
Column diameter: 0.32

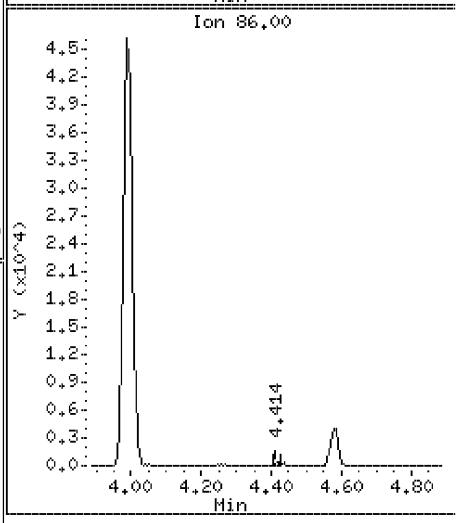
30 Vinyl Acetate

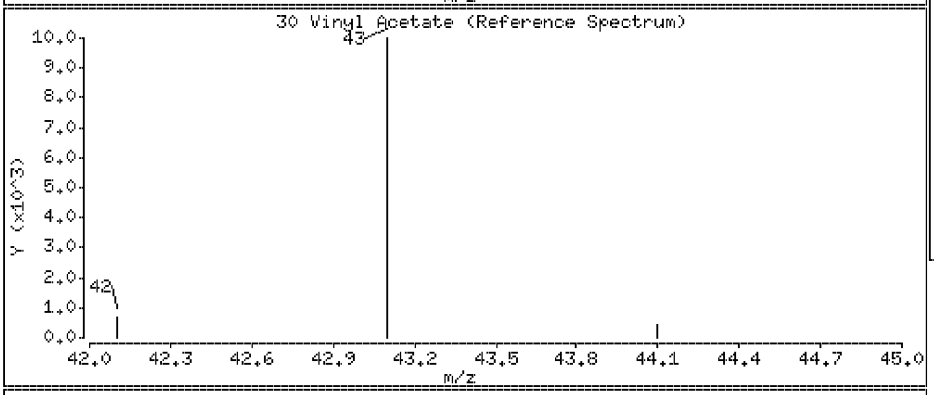
Concentration: 0.465 ppbv

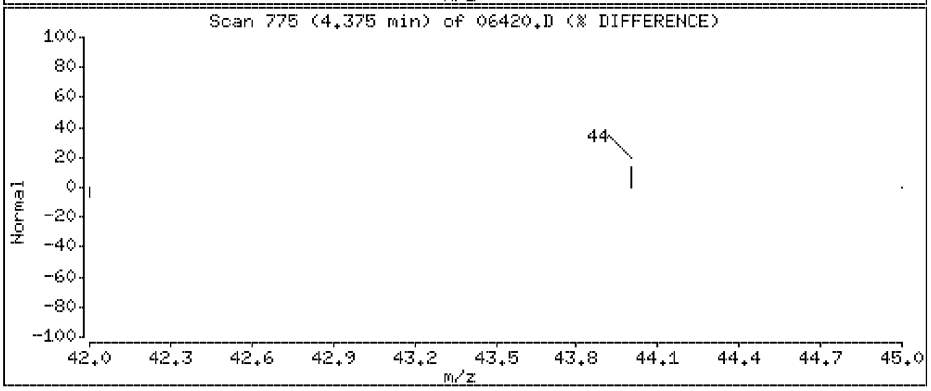












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

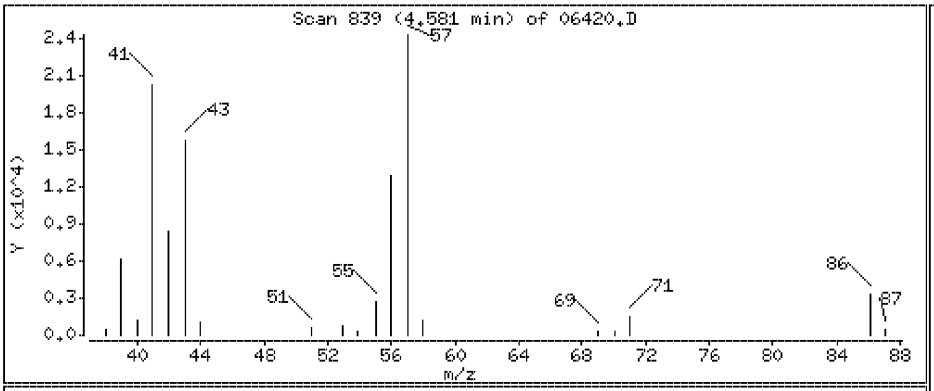
Operator: NCK

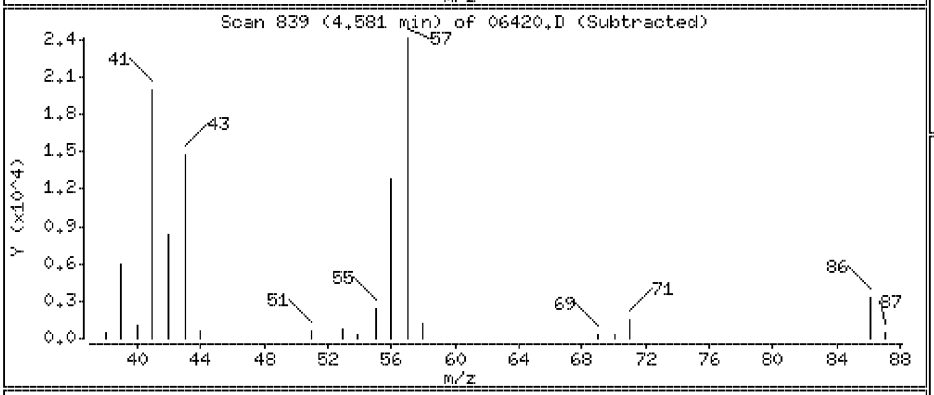
Column phase: J&W DB-5

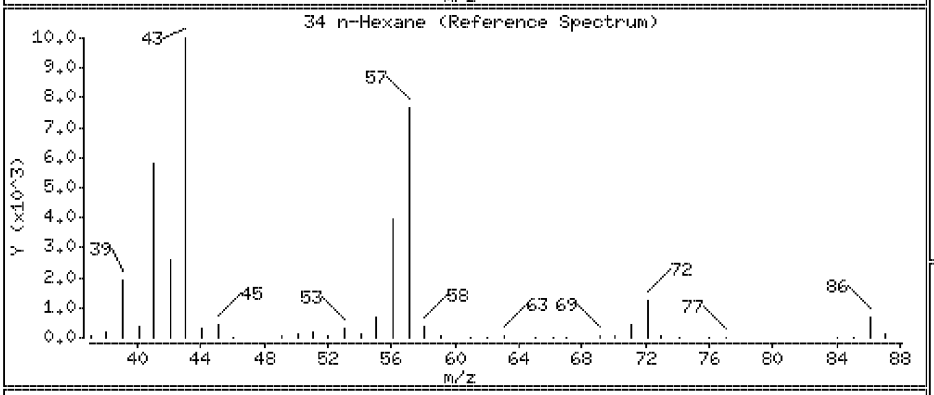
Column diameter: 0.32

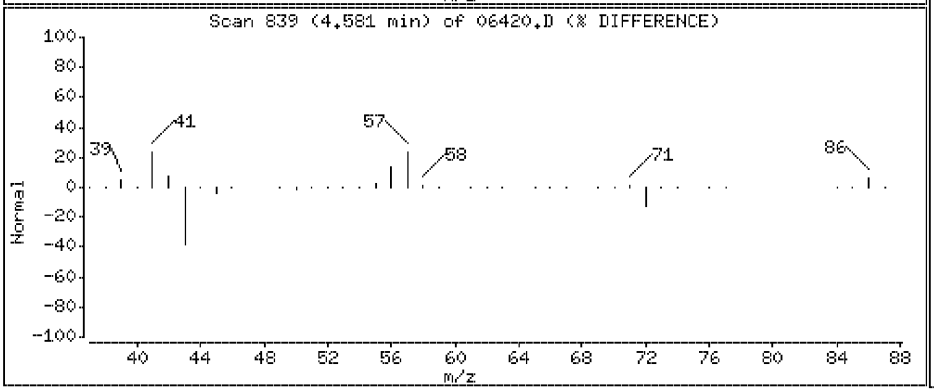
34 n-Hexane

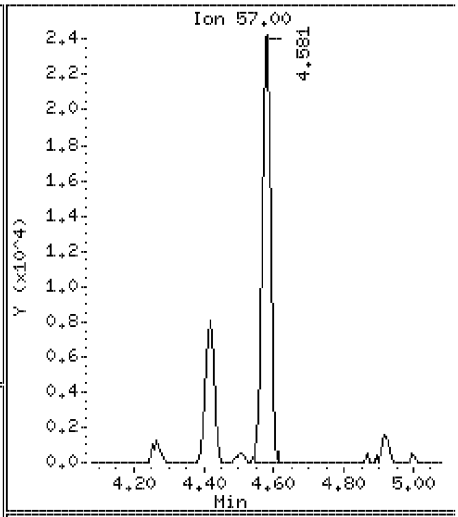
Concentration: 3.88 ppbv

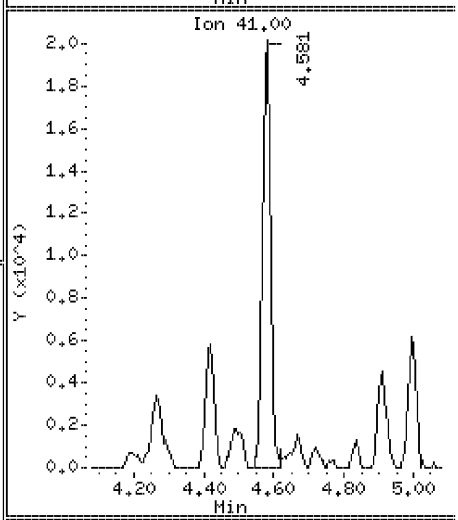


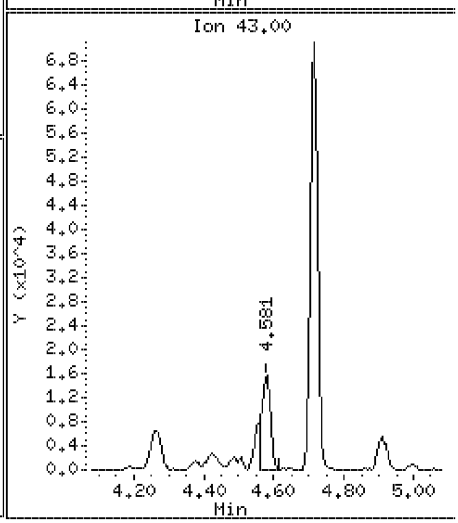












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

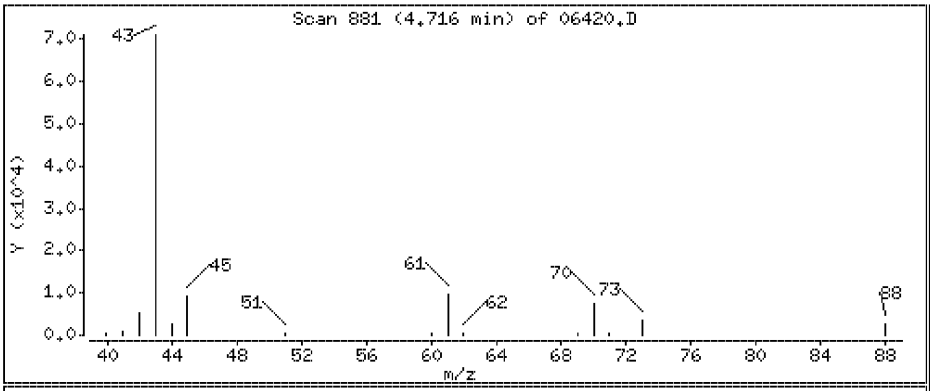
Operator: NCK

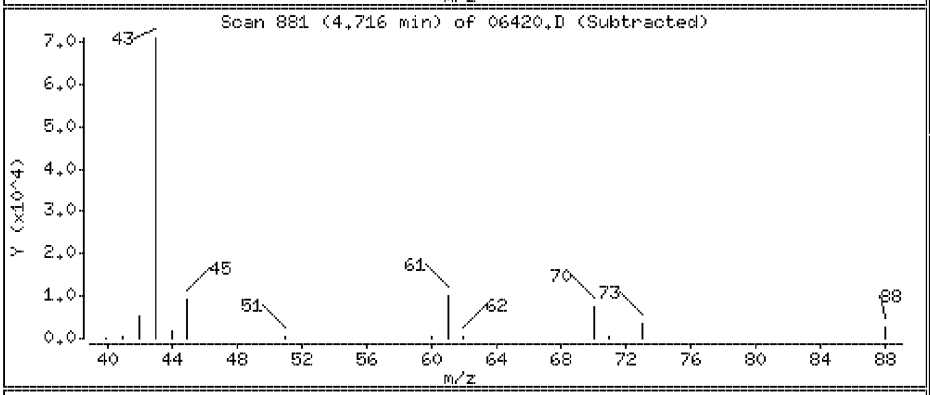
Column phase: J&W DB-5

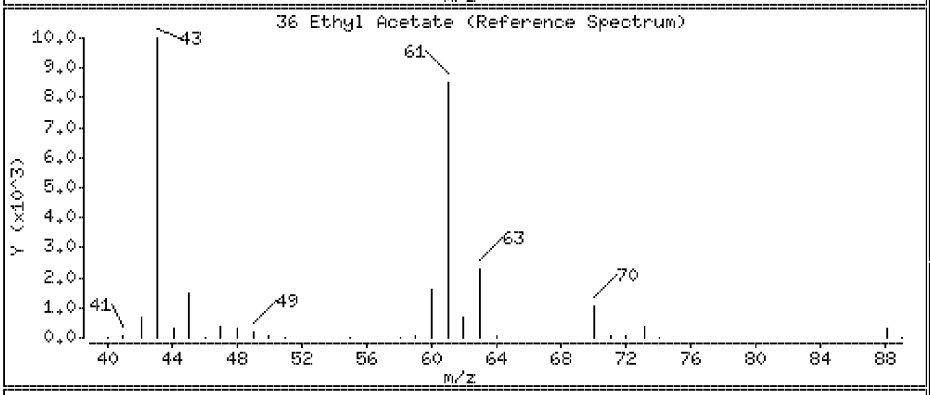
Column diameter: 0.32

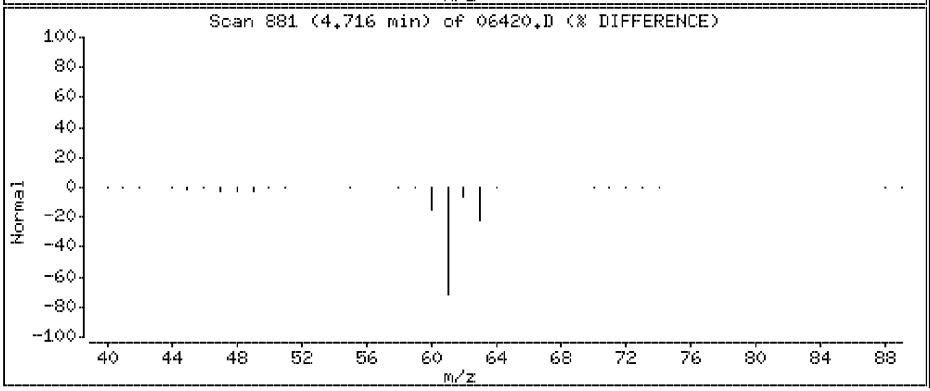
36 Ethyl Acetate

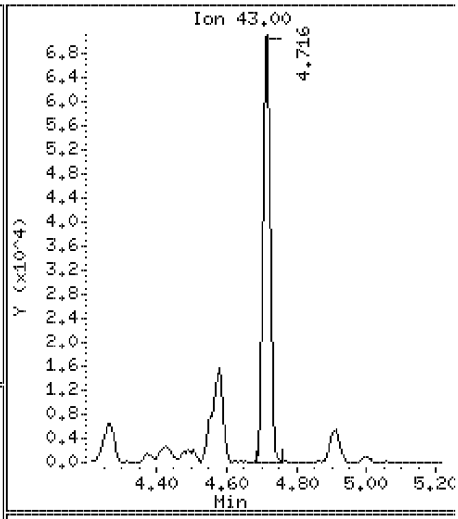
Concentration: 7.58 ppbv

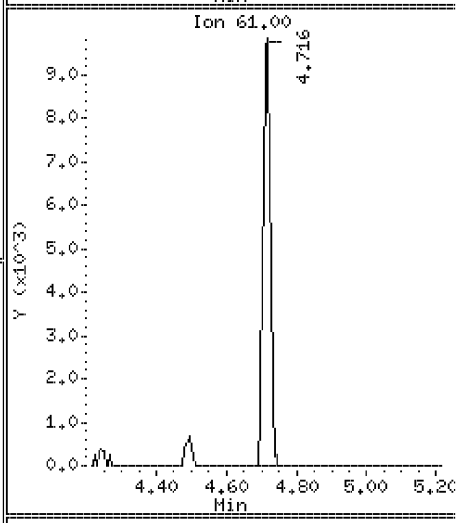


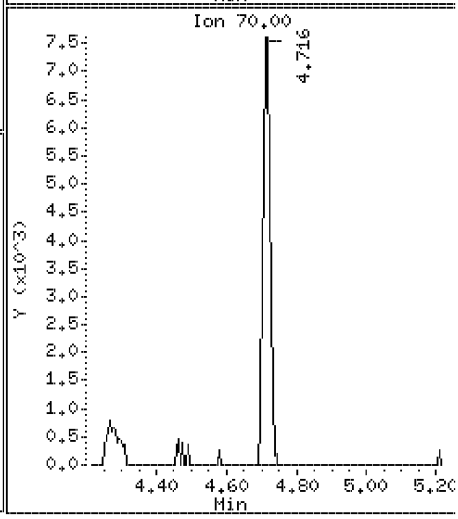












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

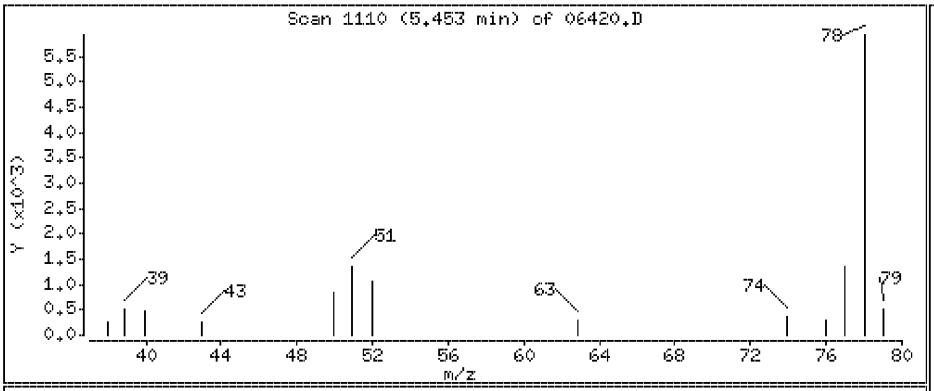
Operator: NCK

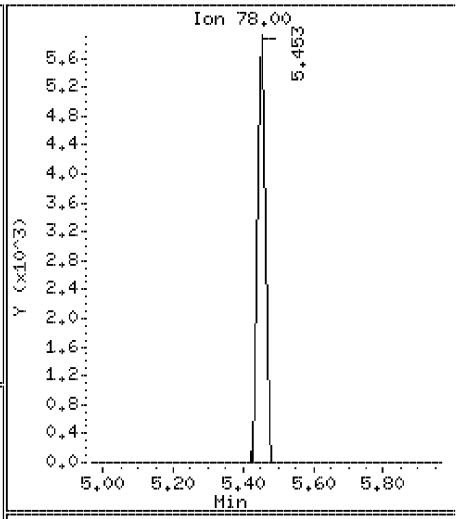
Column phase: J&W DB-5

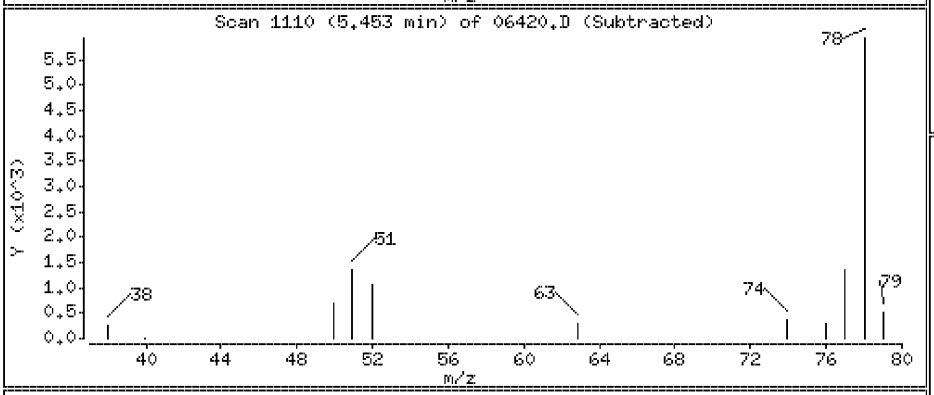
Column diameter: 0.32

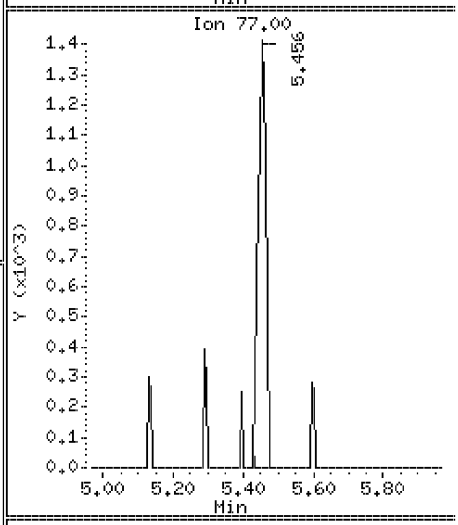
43 Benzene

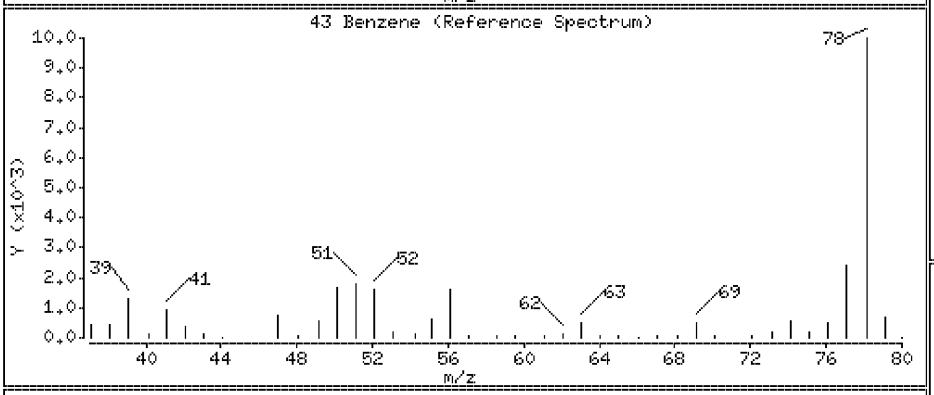
Concentration: 0.436 ppbv

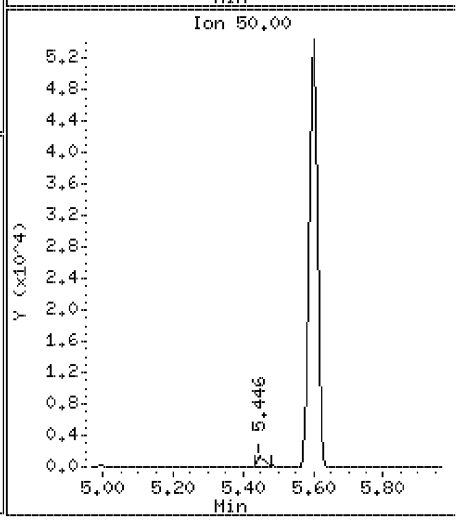


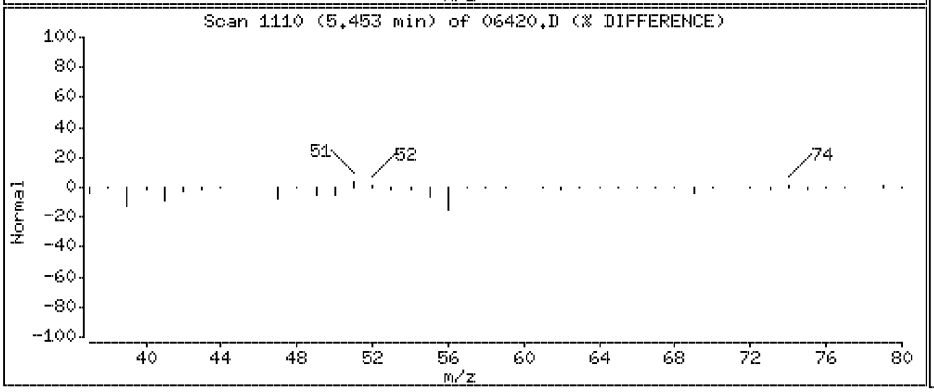












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

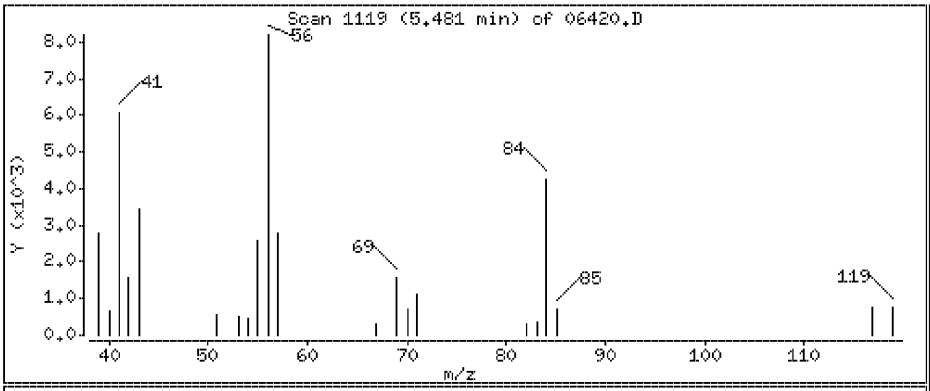
Operator: NCK

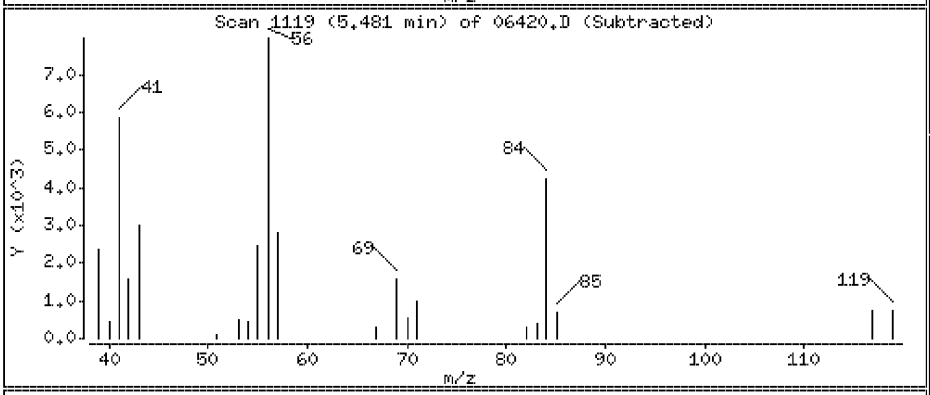
Column phase: J&W DB-5

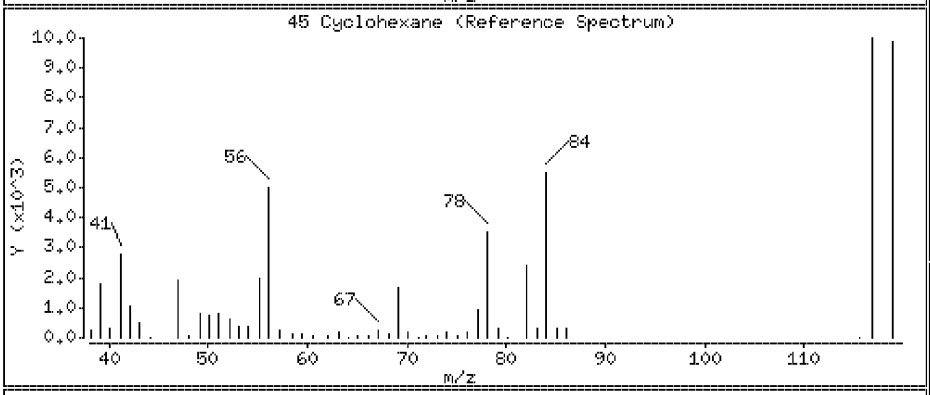
Column diameter: 0.32

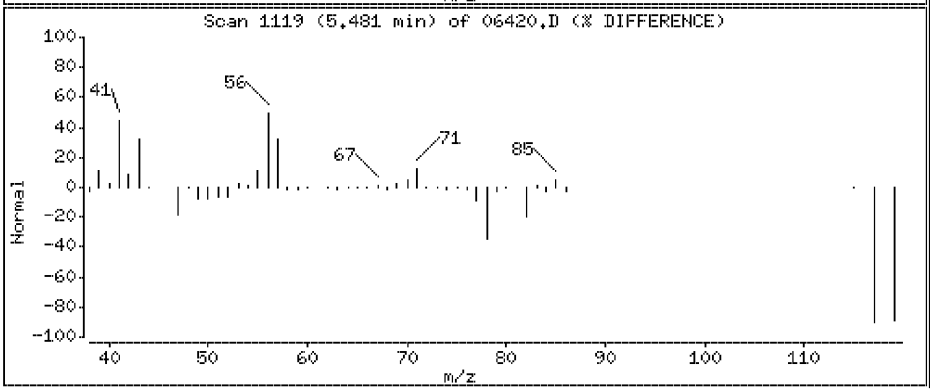
45 Cyclohexane

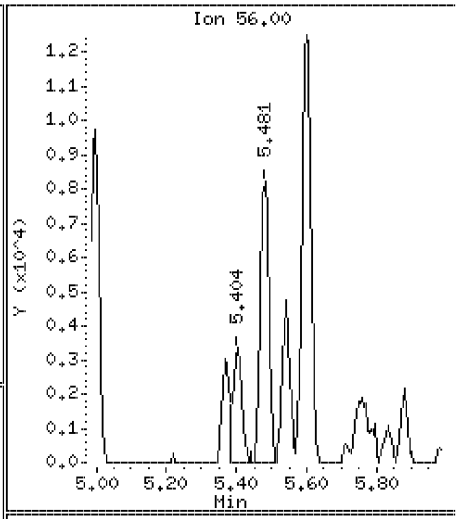
Concentration: 1.35 ppbv

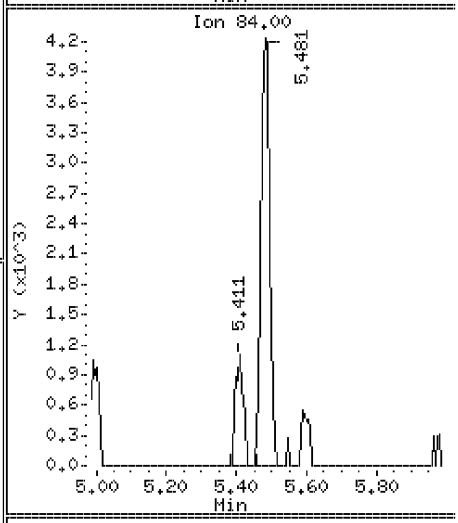


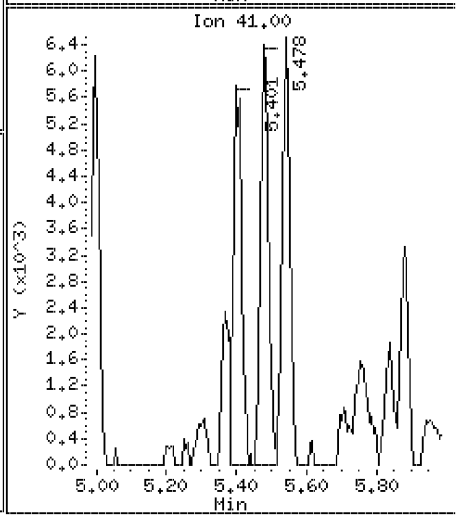












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

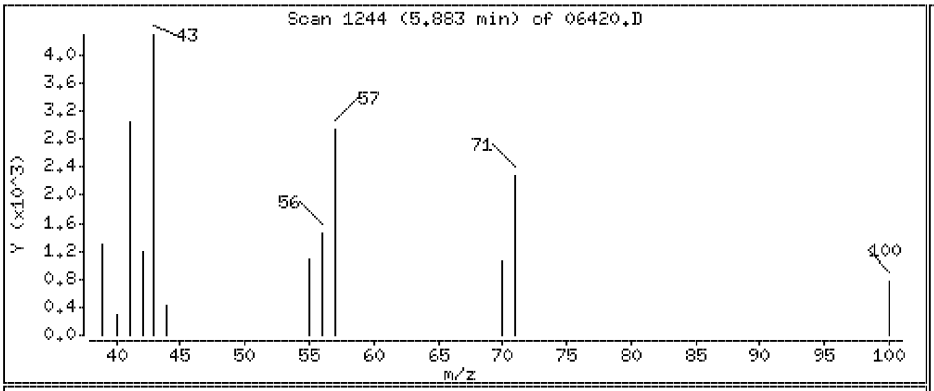
Operator: NCK

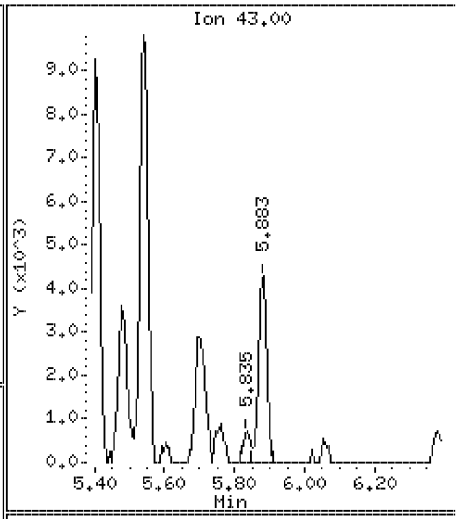
Column phase: J&W DB-5

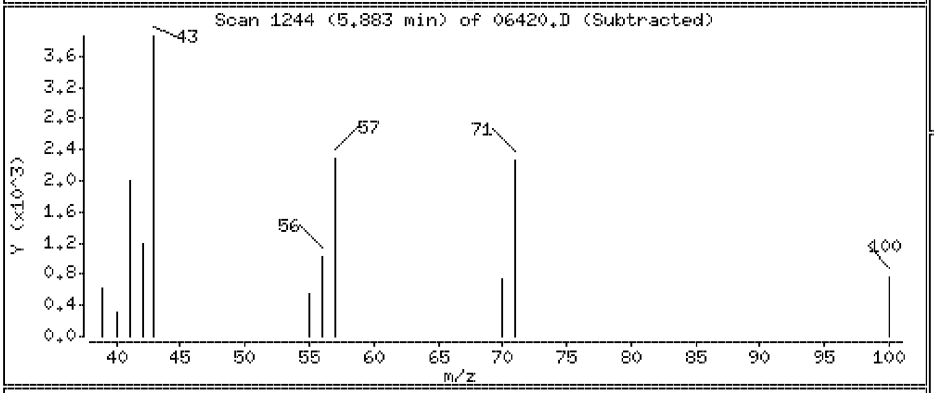
Column diameter: 0.32

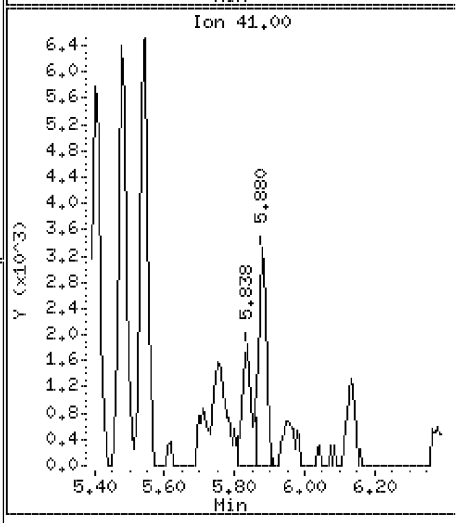
49 Heptane

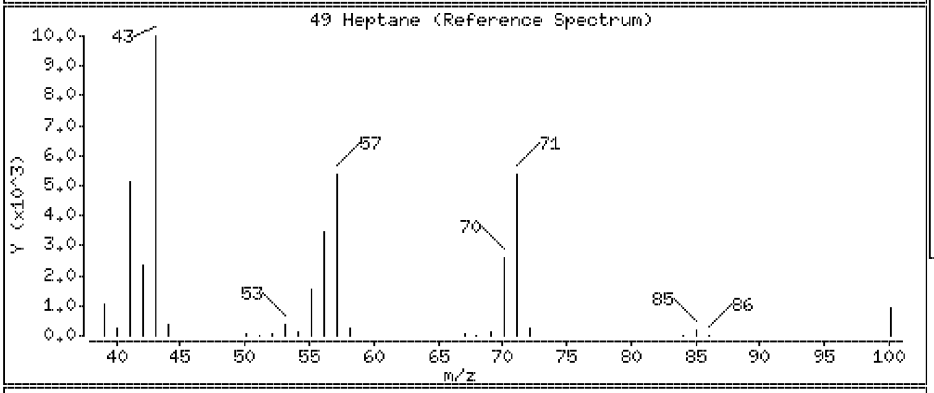
Concentration: 0.602 ppbv

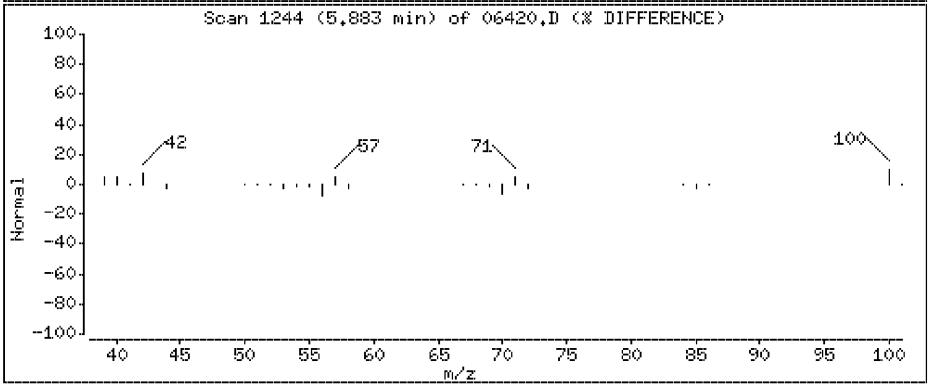












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

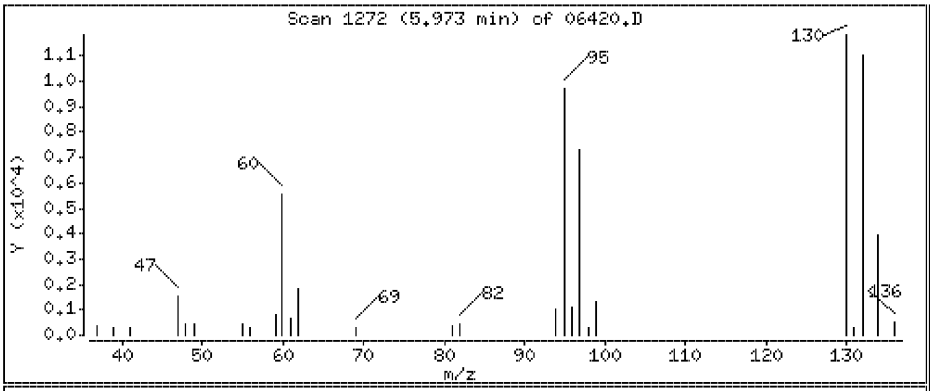
Operator: NCK

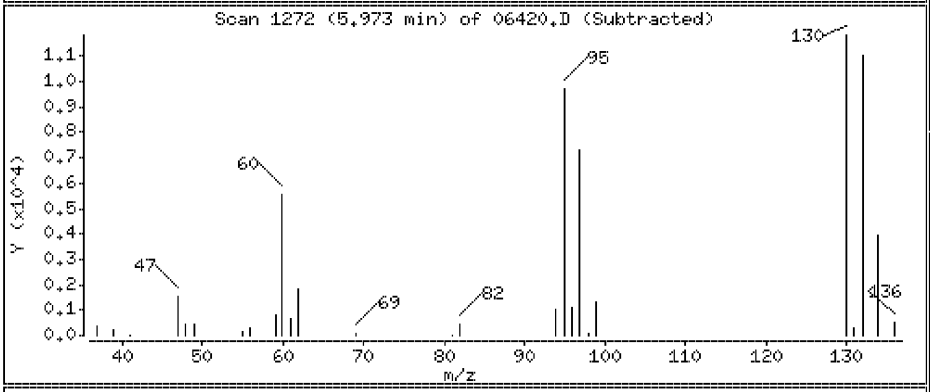
Column phase: J&W DB-5

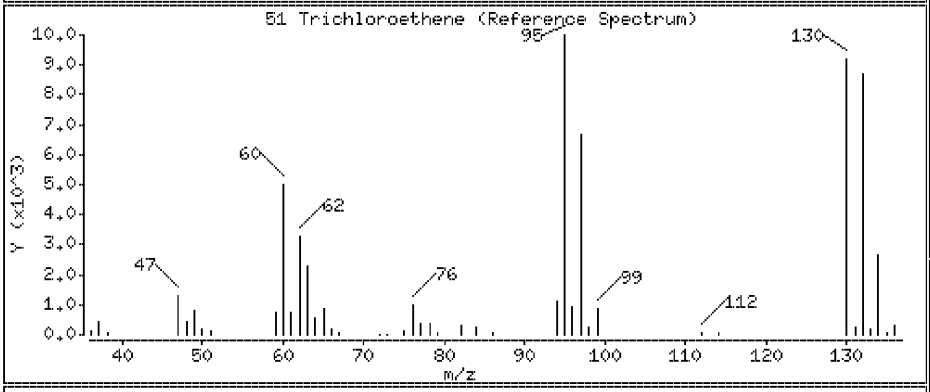
Column diameter: 0.32

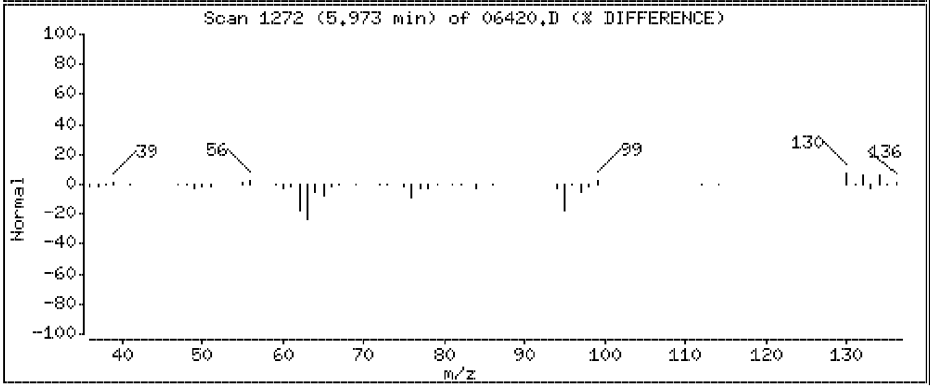
51 Trichloroethene

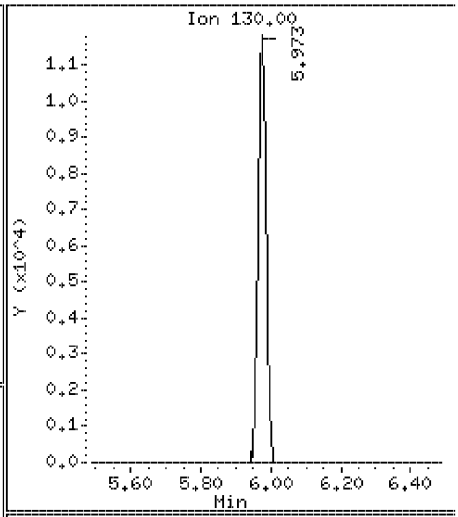
Concentration: 1.76 ppbv

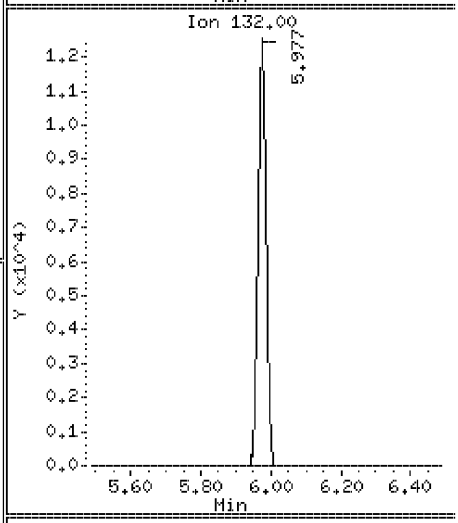


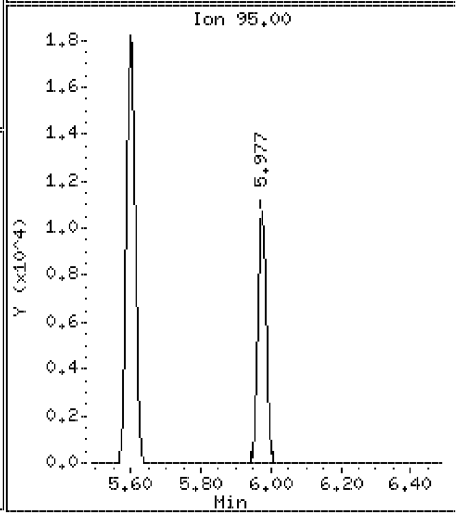












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

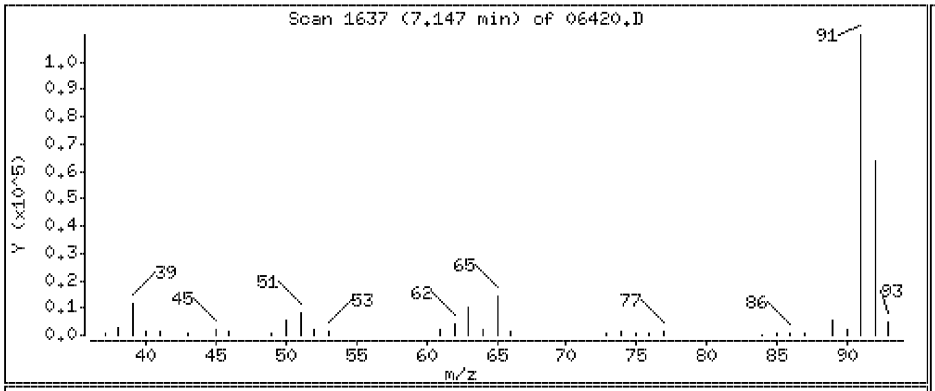
Operator: NCK

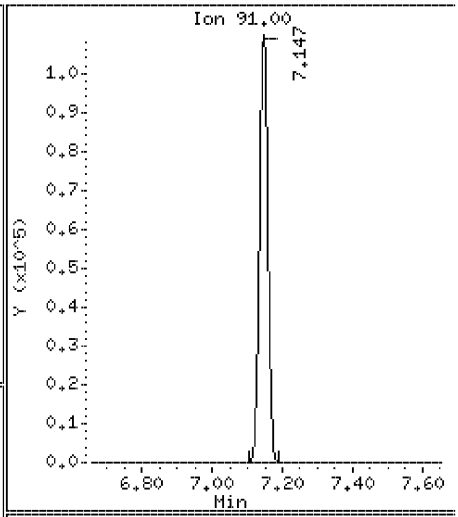
Column phase: J&W DB-5

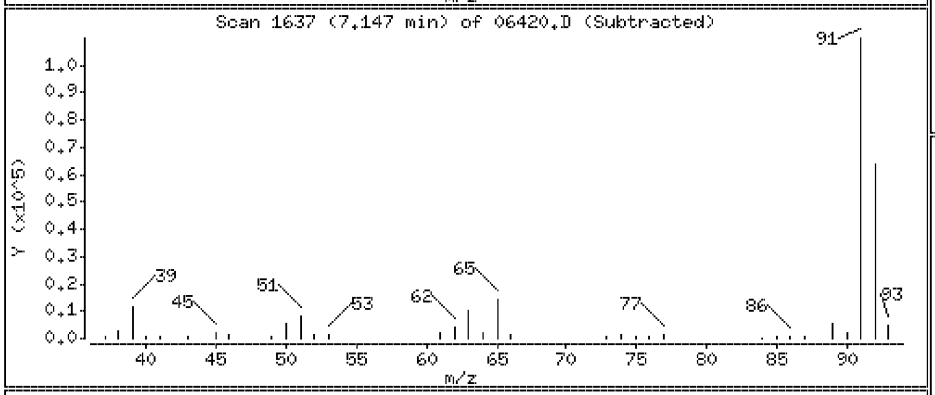
Column diameter: 0.32

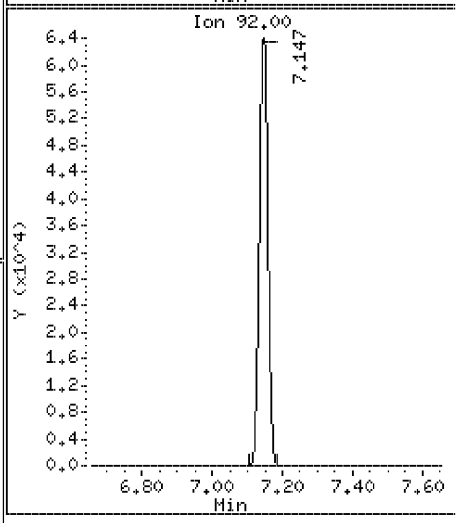
61 Toluene

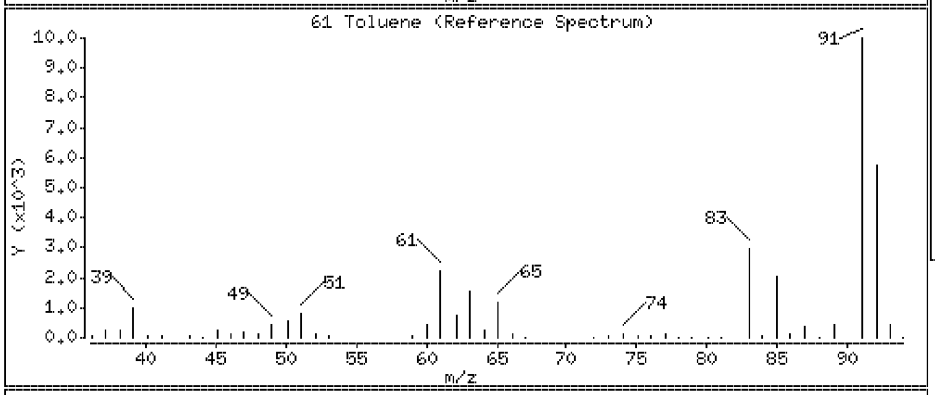
Concentration: 6.92 ppbv

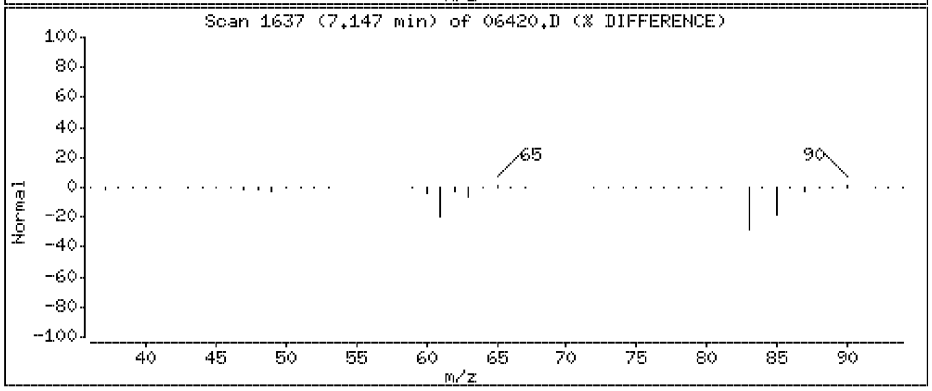












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

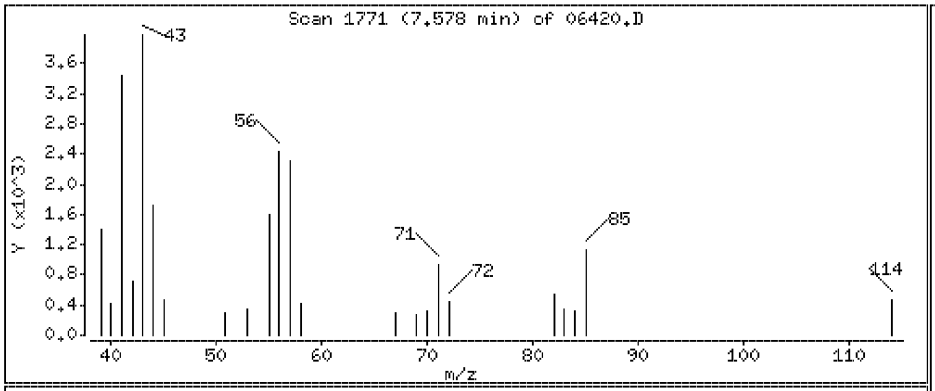
Operator: NCK

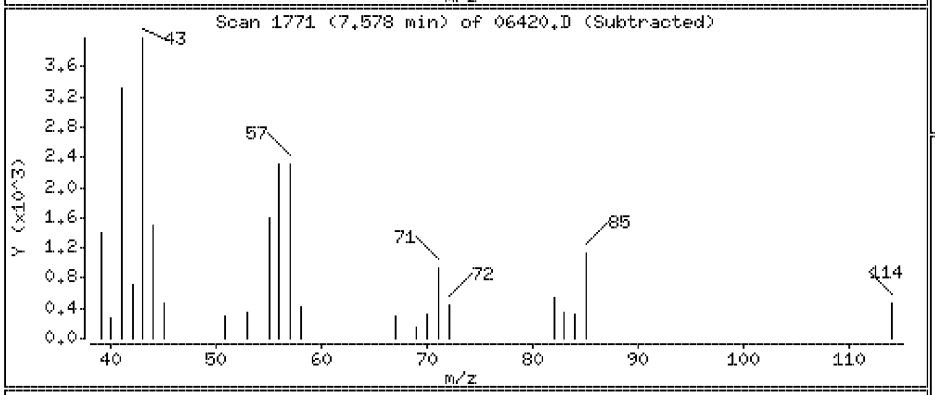
Column phase: J&W DB-5

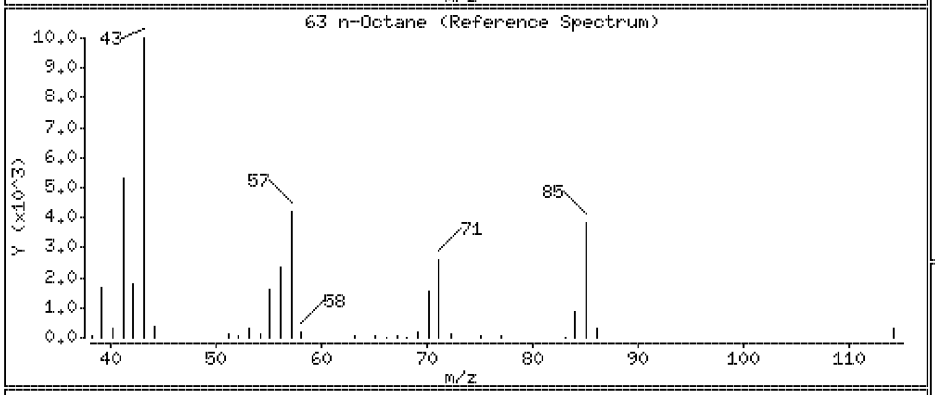
Column diameter: 0.32

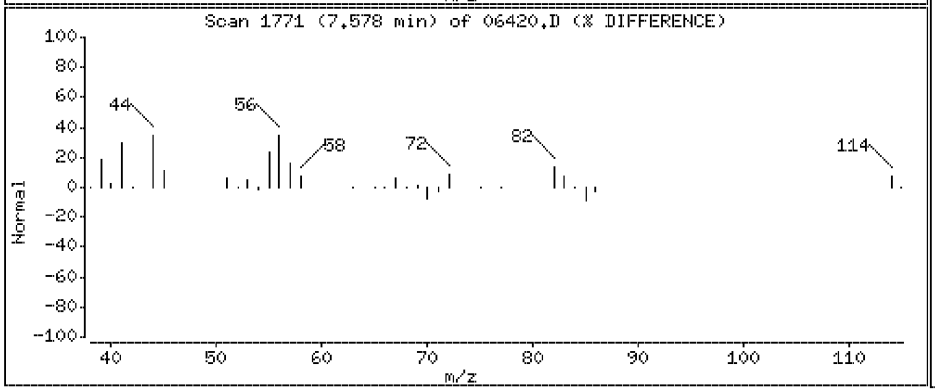
63 n-Octane

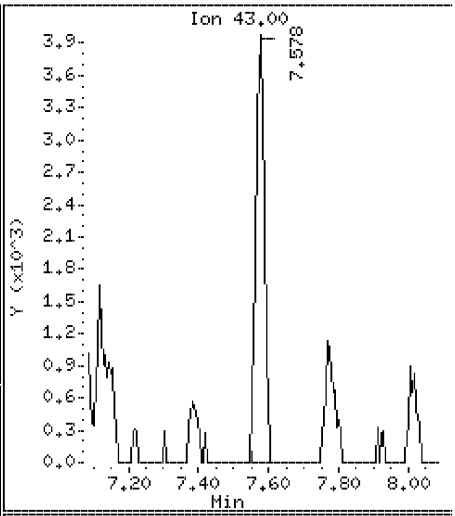
Concentration: 0.463 ppbv

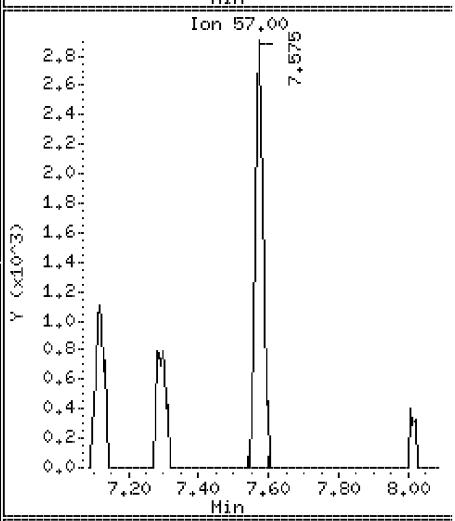


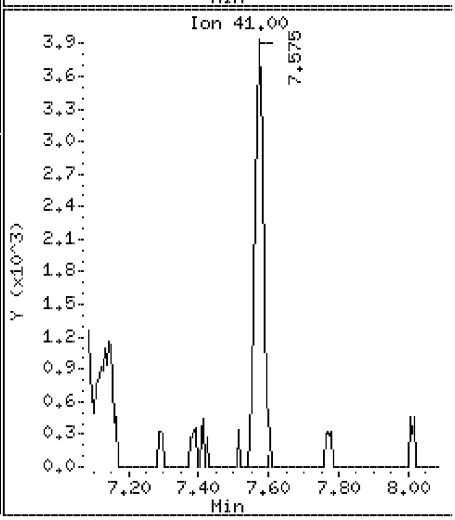












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

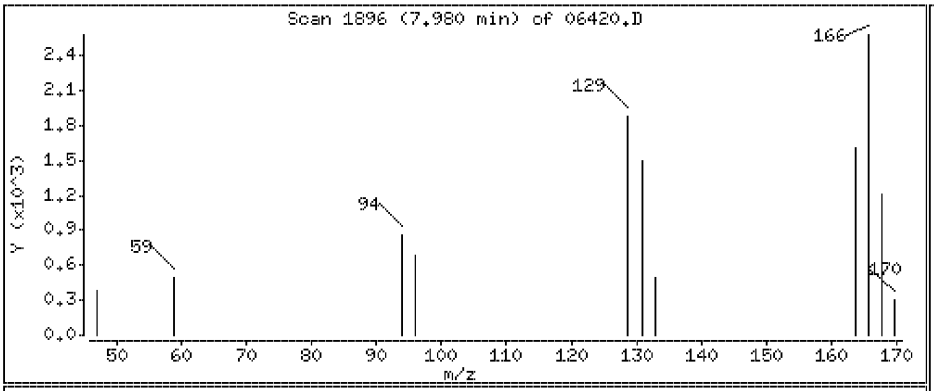
Operator: NCK

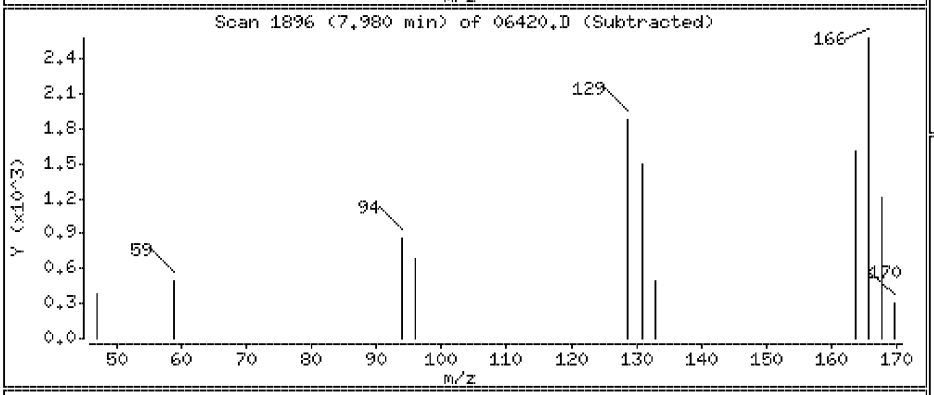
Column phase: J&W DB-5

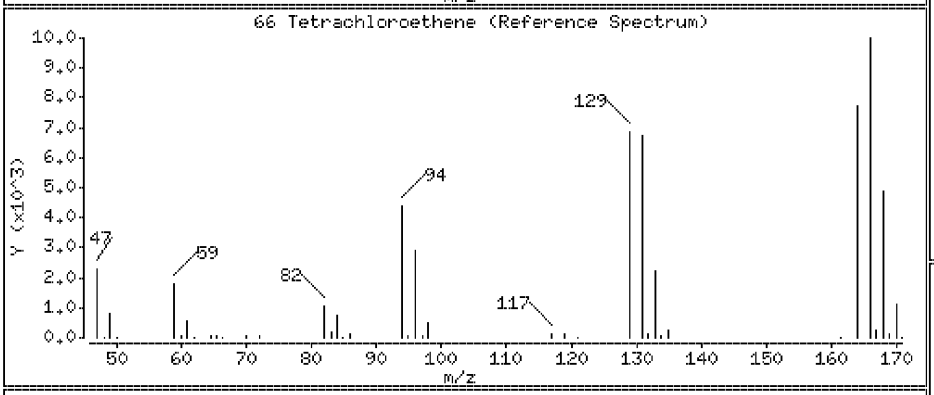
Column diameter: 0.32

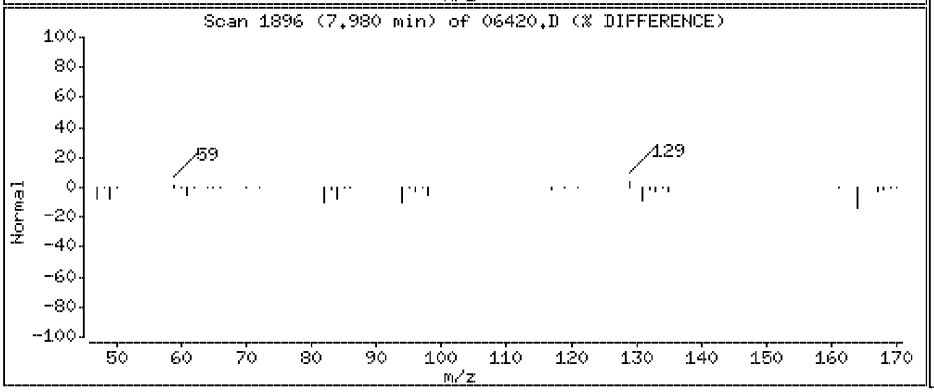
66 Tetrachloroethene

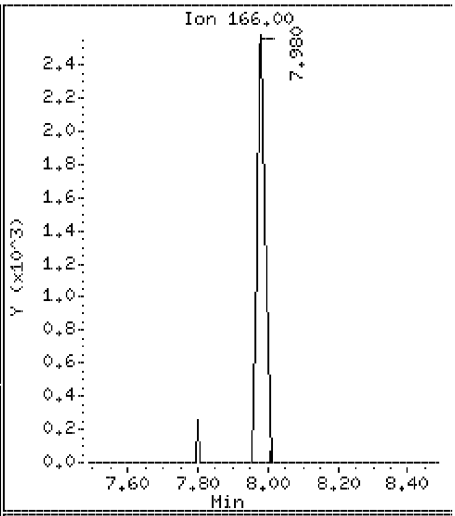
Concentration: 0.267 ppbv

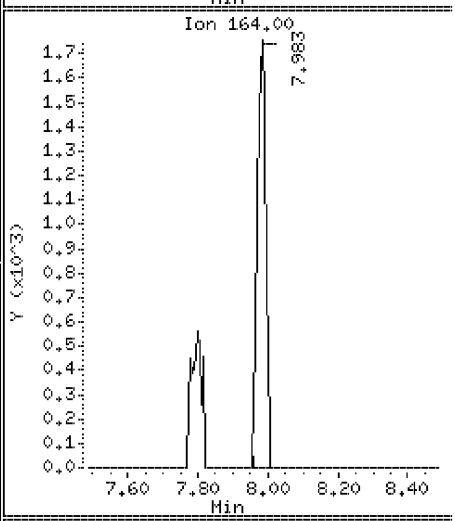


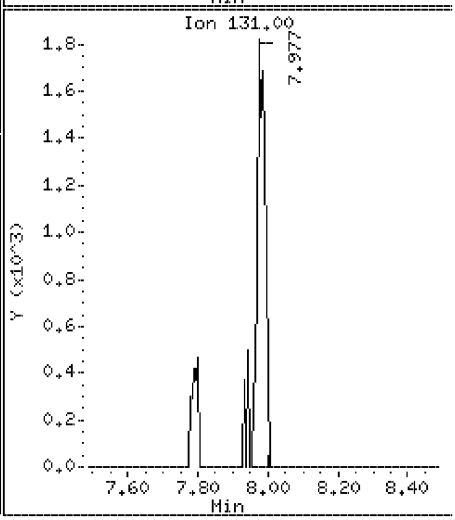












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

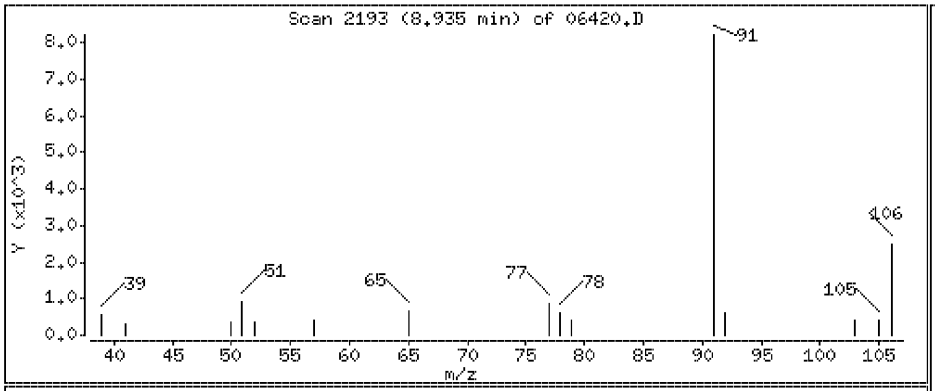
Operator: NCK

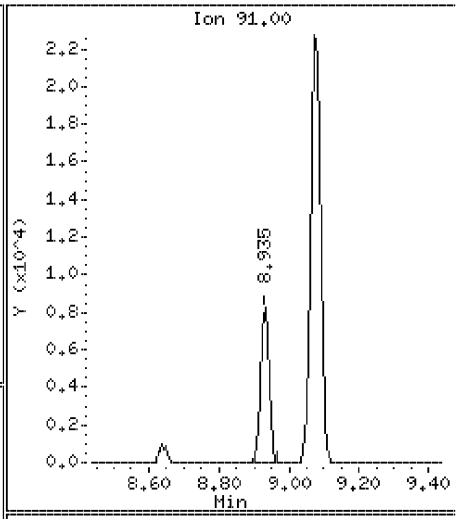
Column phase: J&W DB-5

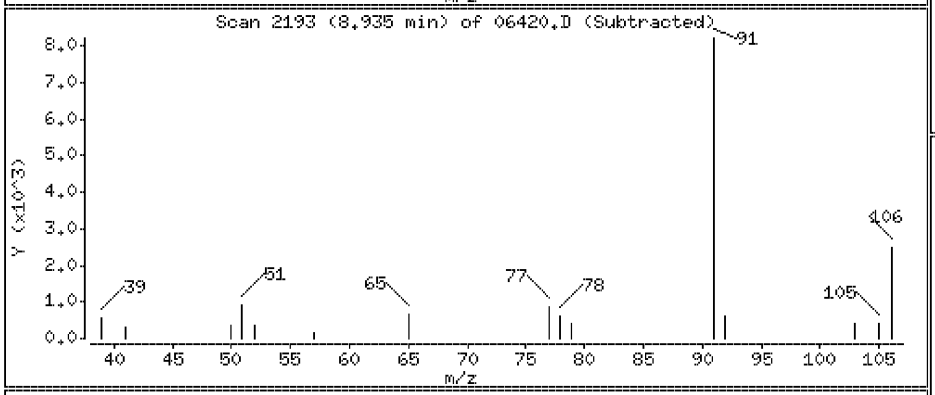
Column diameter: 0.32

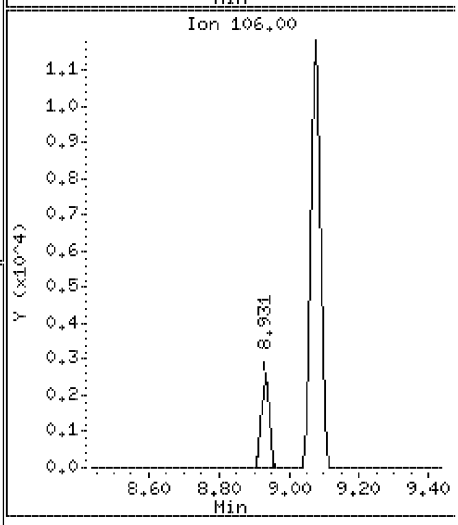
69 Ethyl Benzene

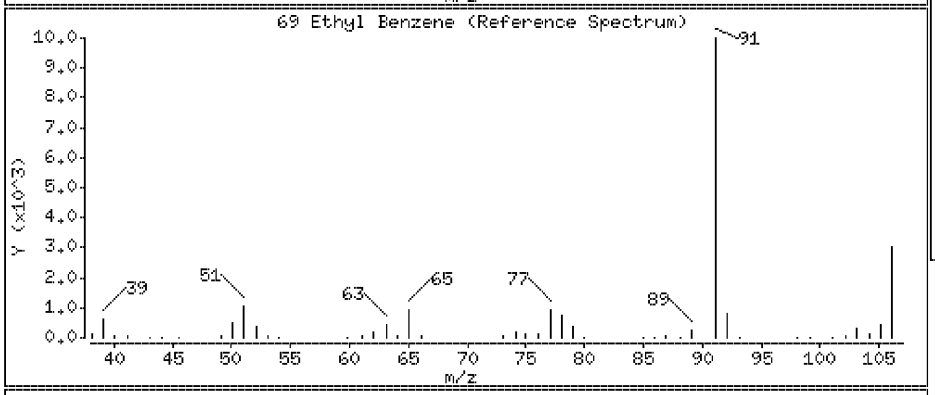
Concentration: 0.428 ppbv

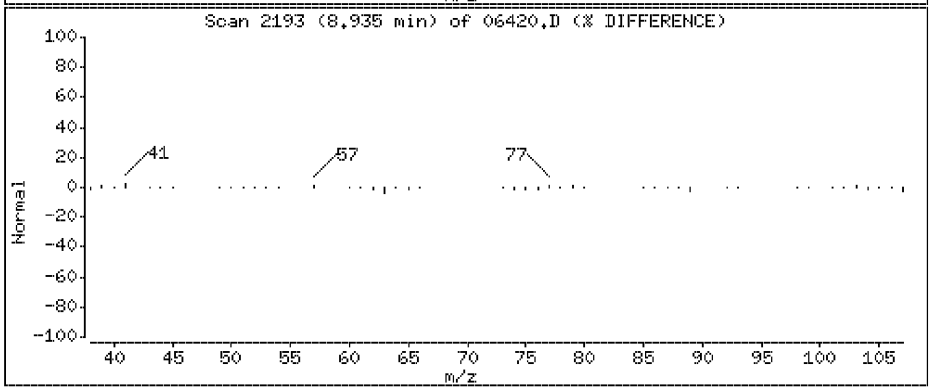












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

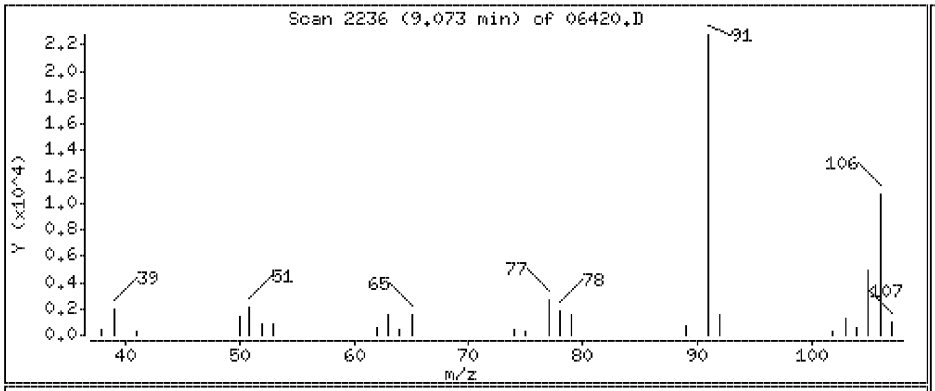
Operator: NCK

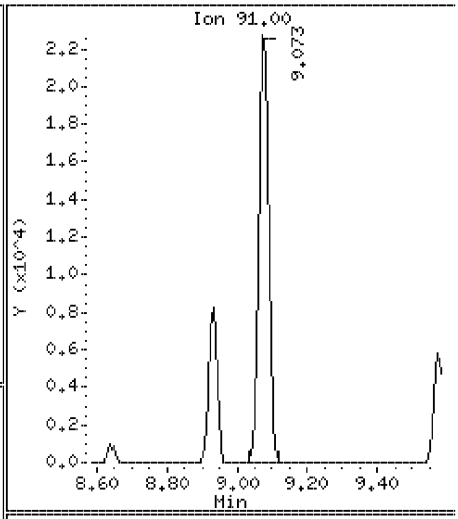
Column phase: J&W DB-5

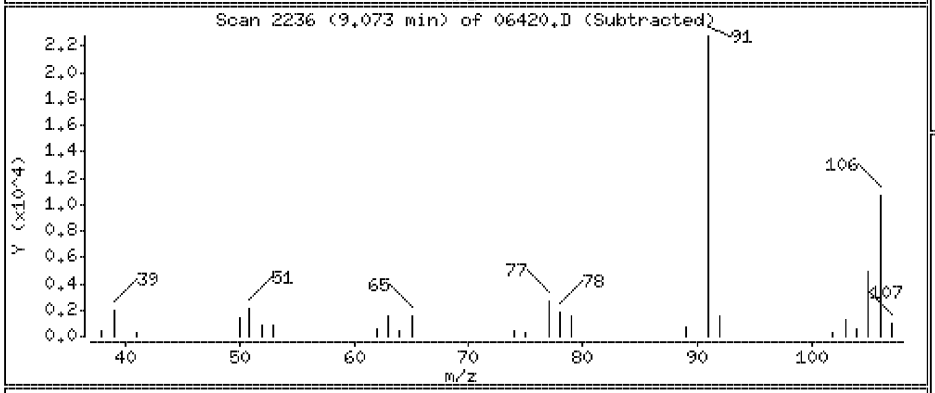
Column diameter: 0.32

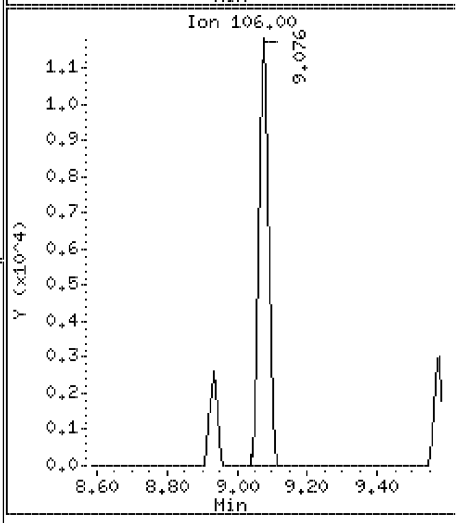
70 m&p-Xylene

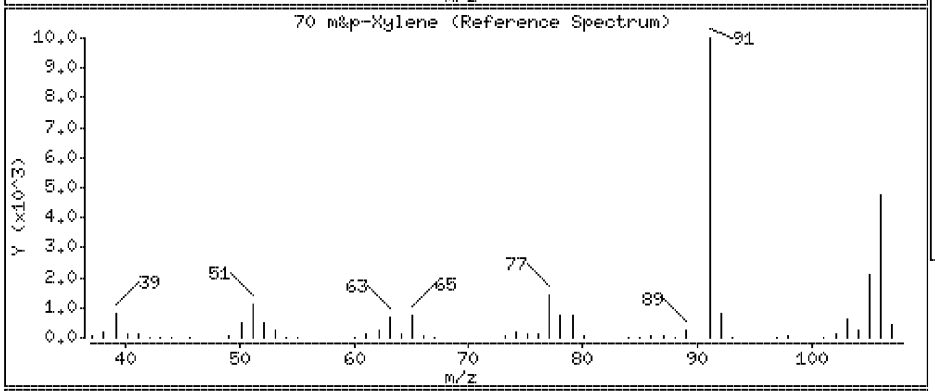
Concentration: 1.77 ppbv

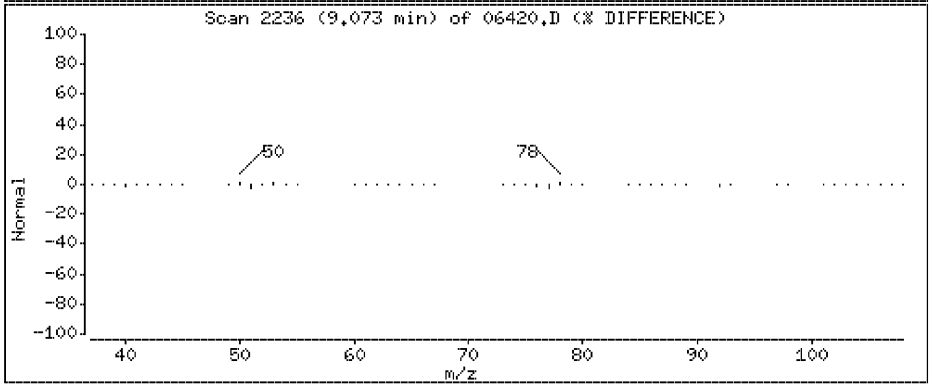












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

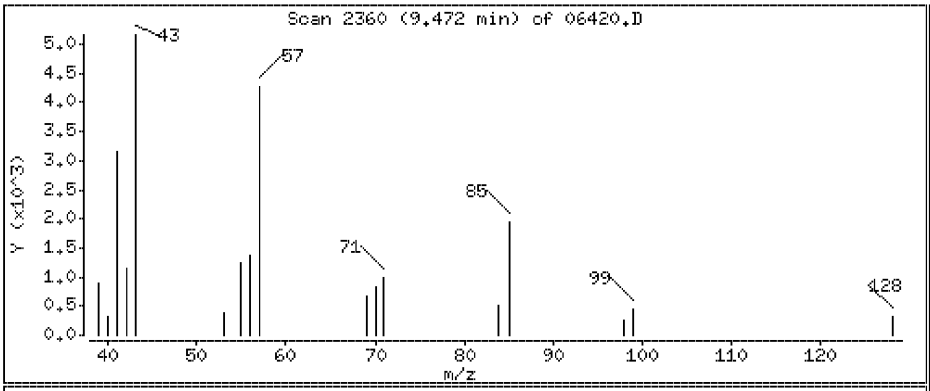
Operator: NCK

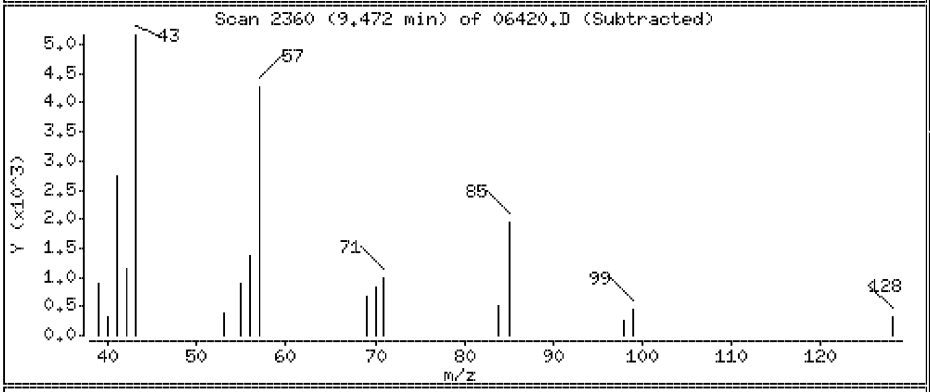
Column phase: J&W DB-5

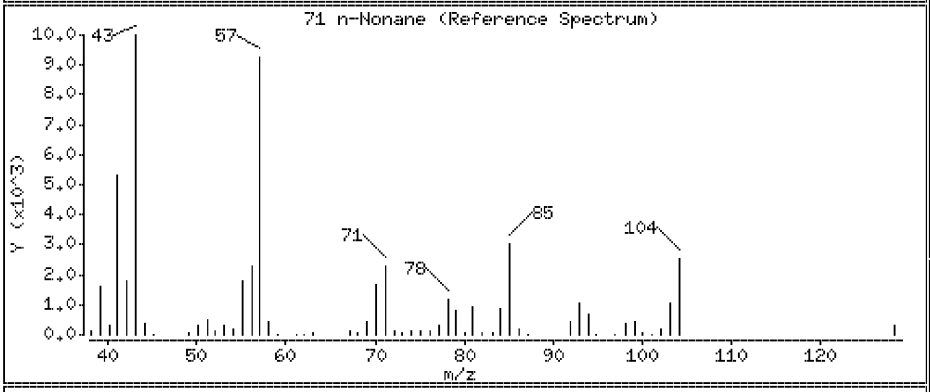
Column diameter: 0.32

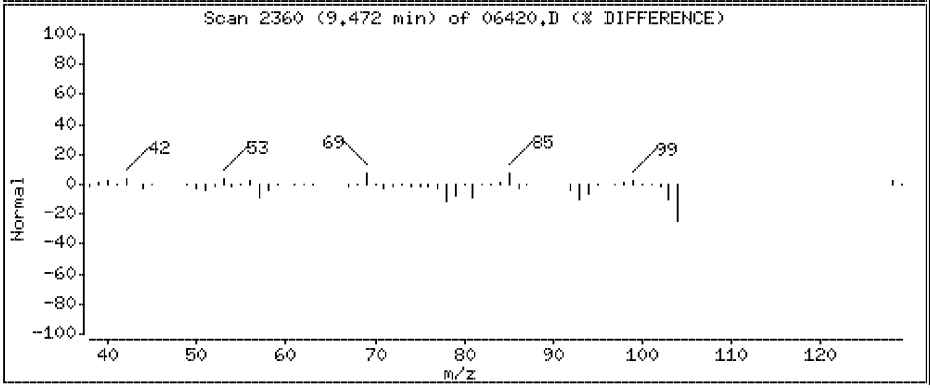
71 n-Nonane

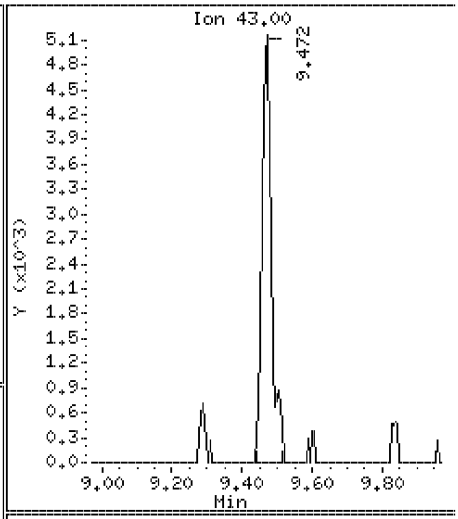
Concentration: 0.747 ppbv

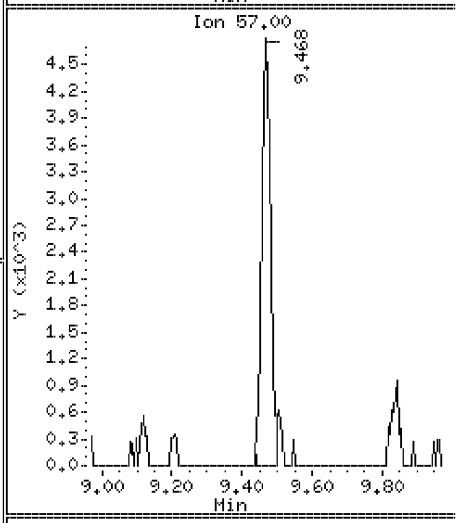


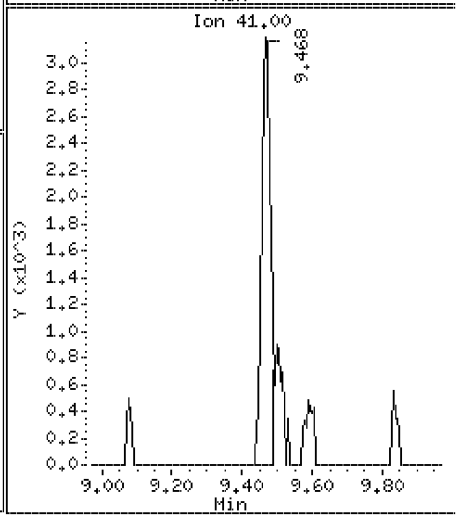












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

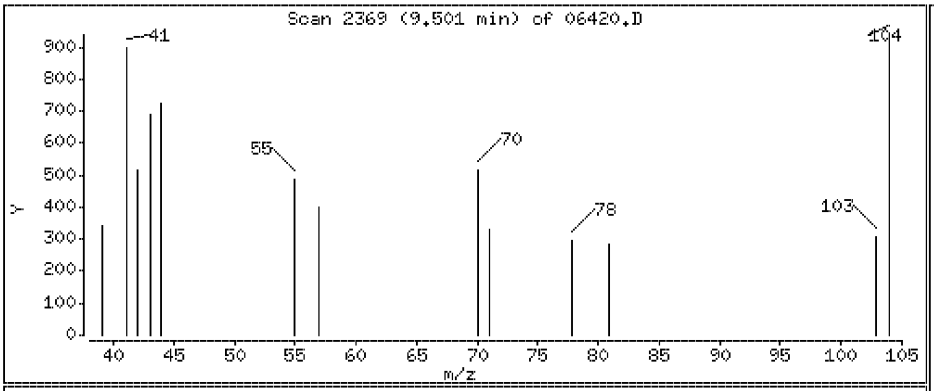
Operator: NCK

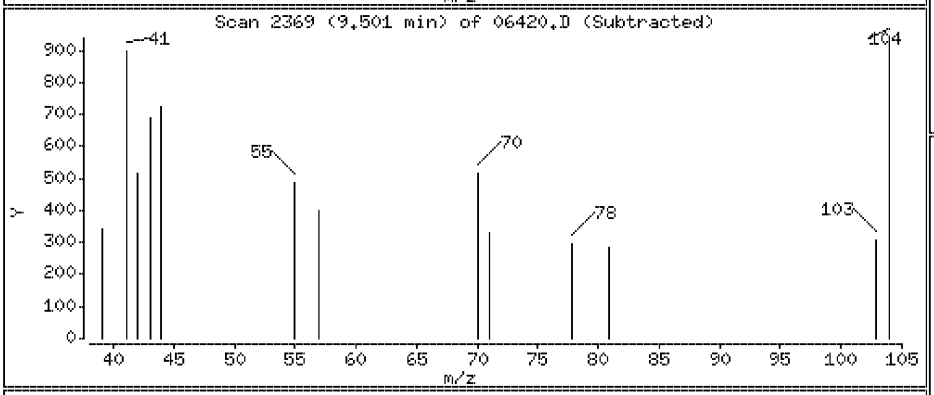
Column phase: J&W DB-5

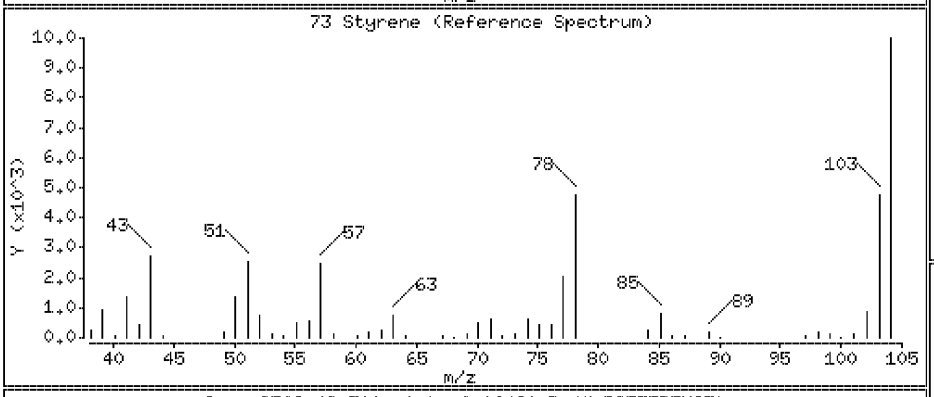
Column diameter: 0.32

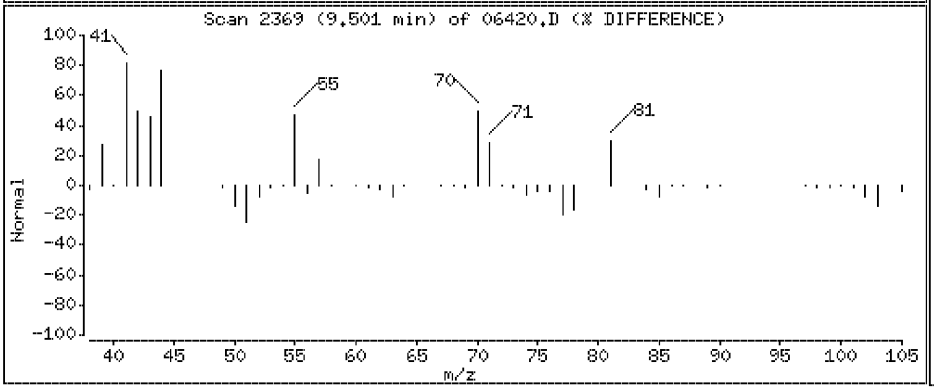
73 Styrene

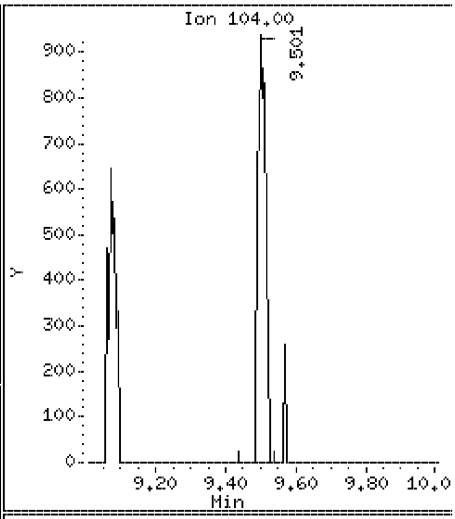
Concentration: 0.195 ppbv

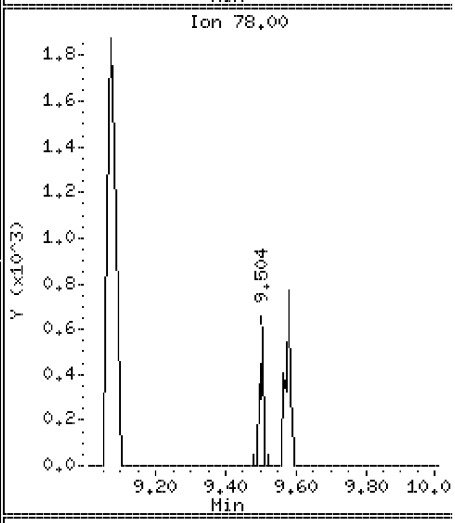


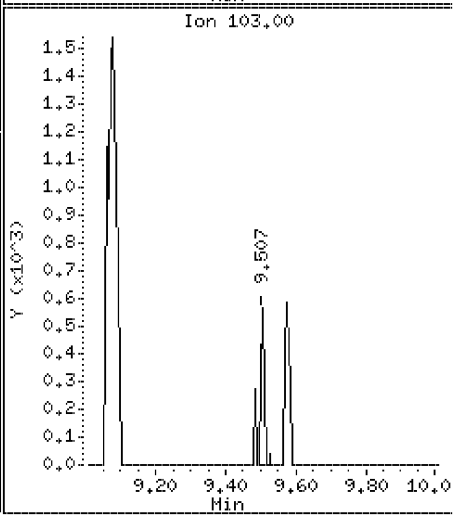












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

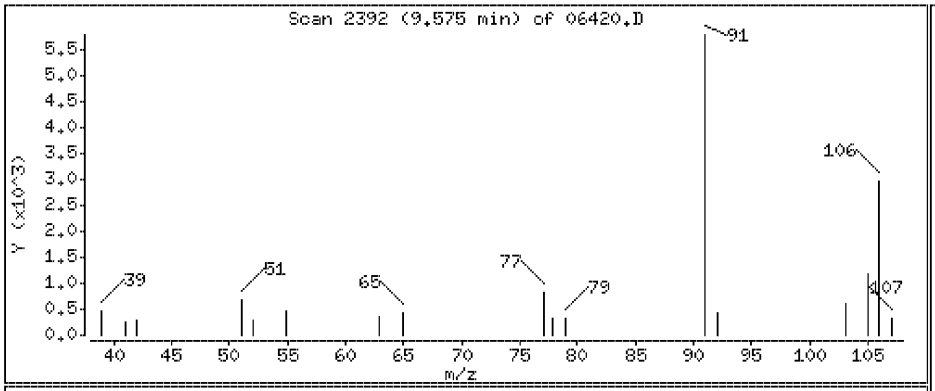
Operator: NCK

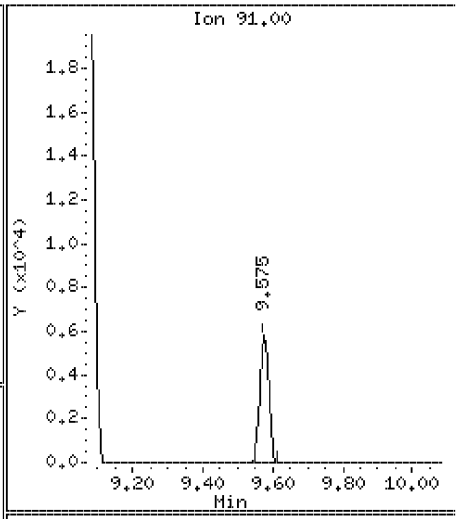
Column phase: J&W DB-5

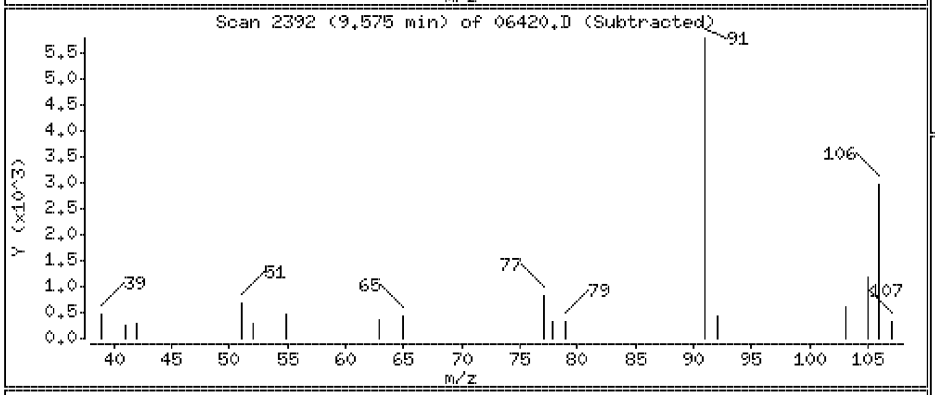
Column diameter: 0.32

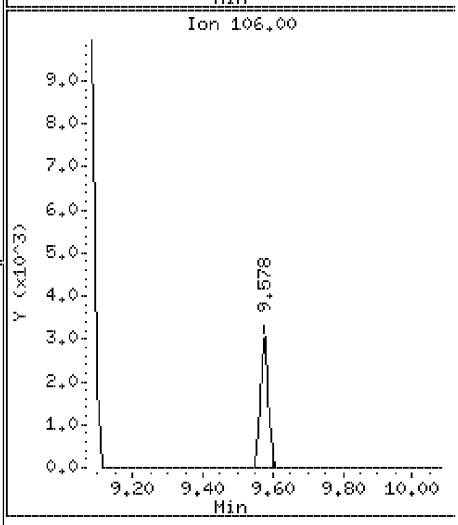
74 o-Xylene

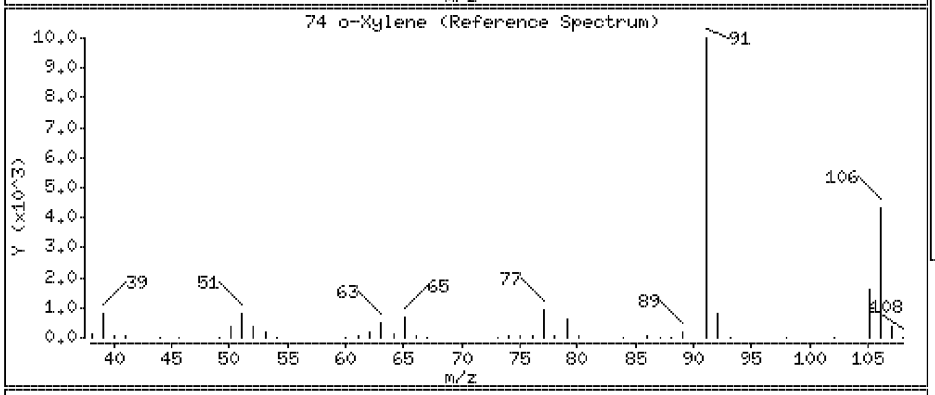
Concentration: 0.407 ppbv

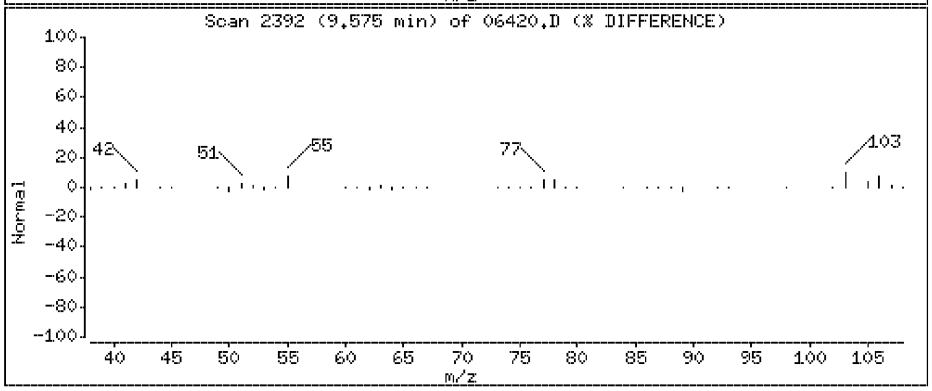












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

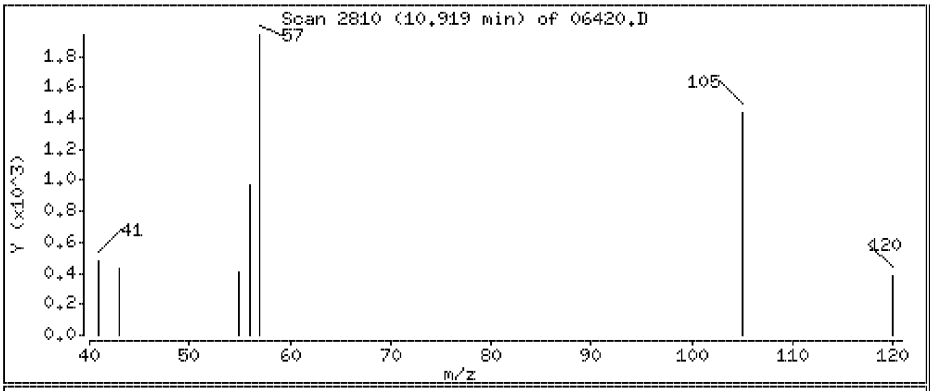
Operator: NCK

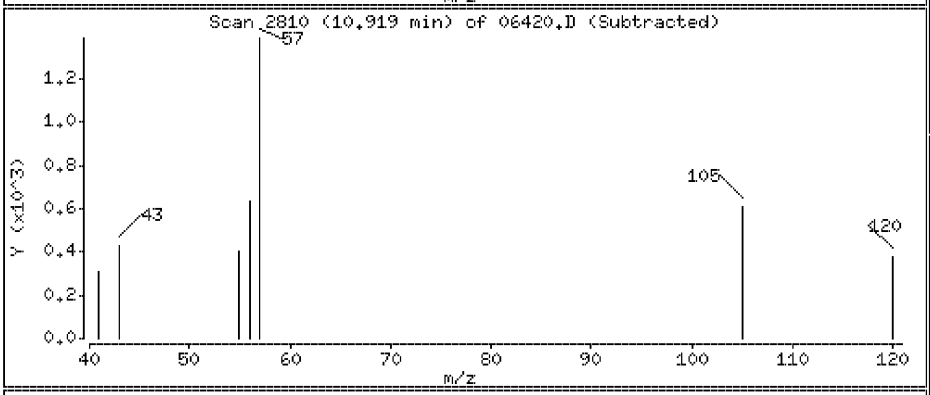
Column phase: J&W DB-5

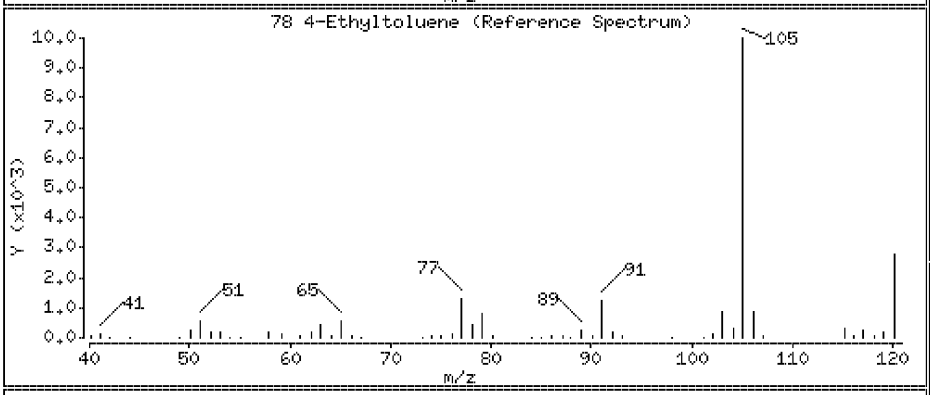
Column diameter: 0.32

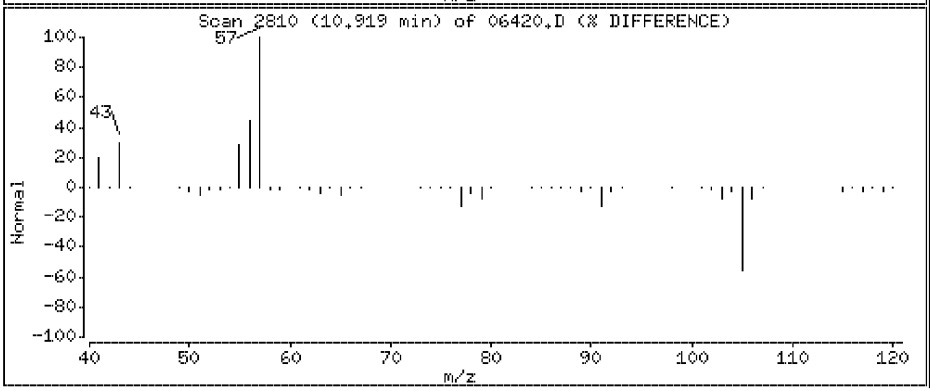
78 4-Ethyltoluene

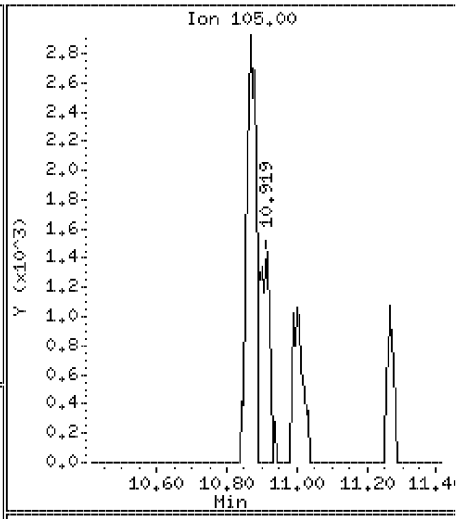
Concentration: 0.254 ppbv

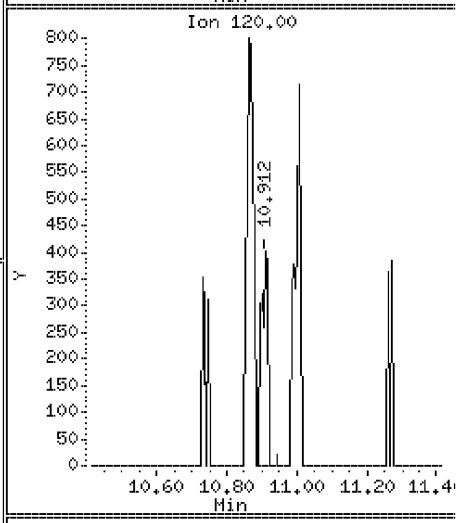


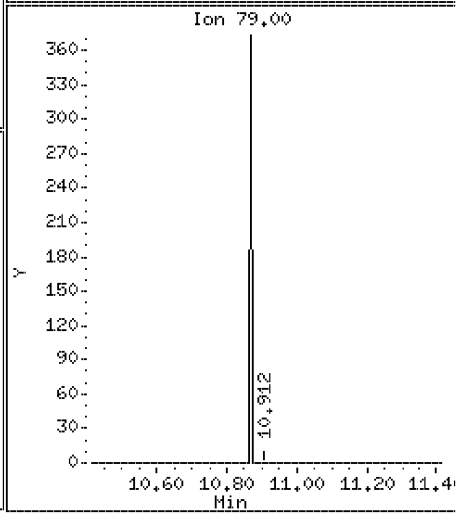












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

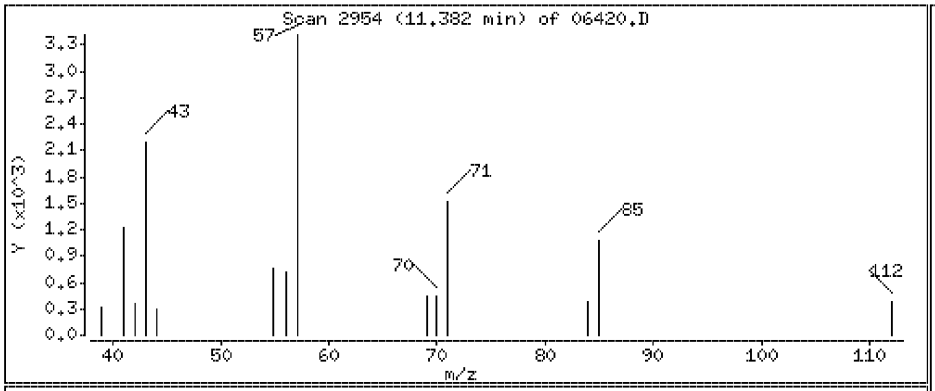
Operator: NCK

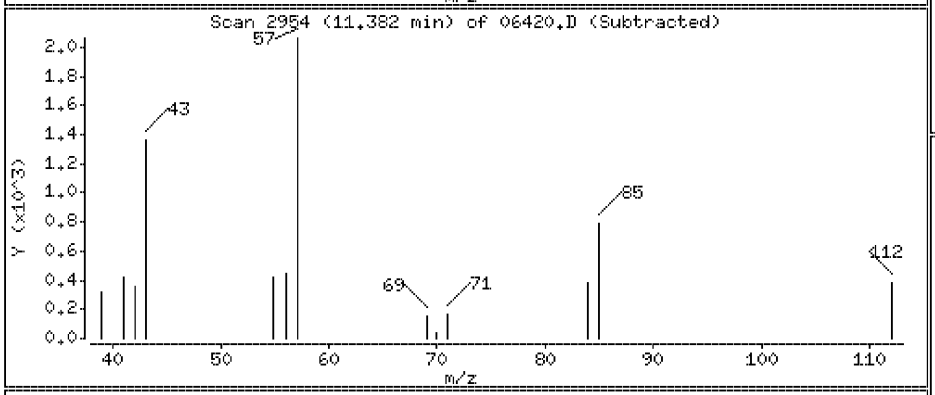
Column phase: J&W DB-5

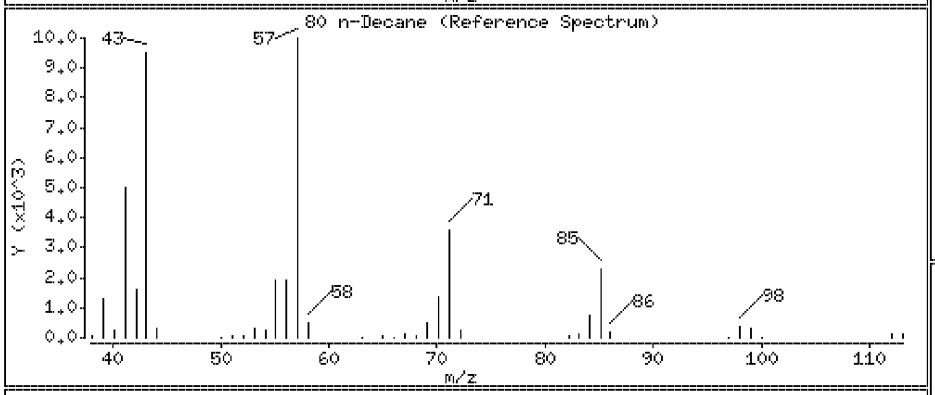
Column diameter: 0.32

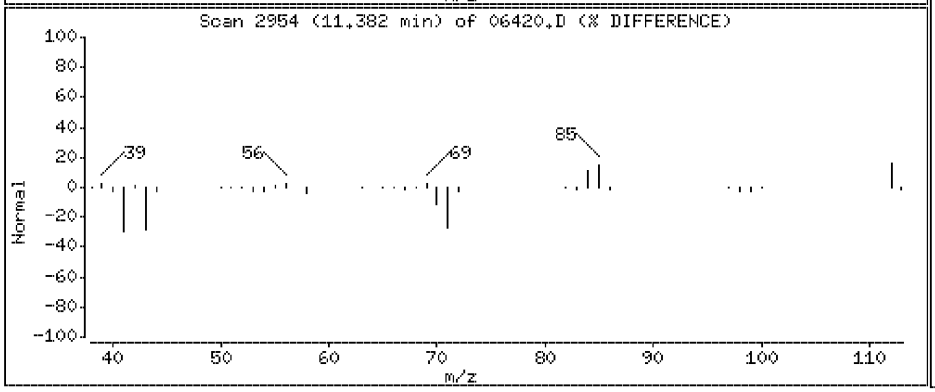
80 n-Decane

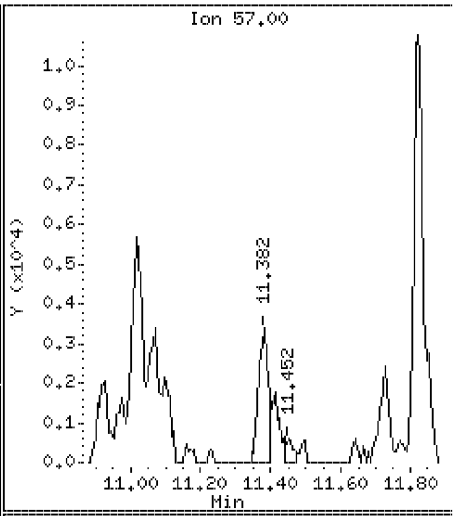
Concentration: 0.804 ppbv

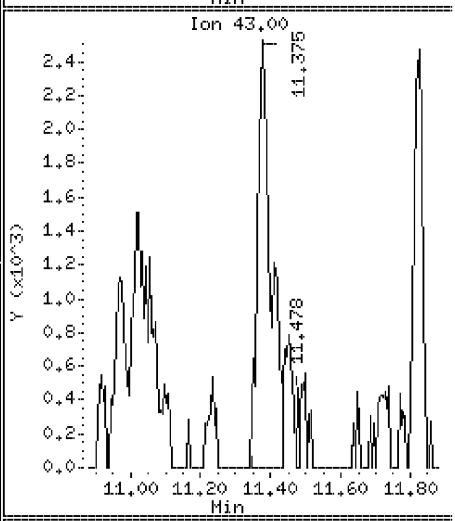


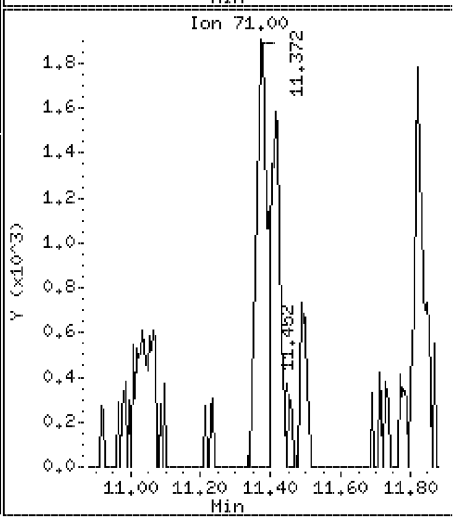












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

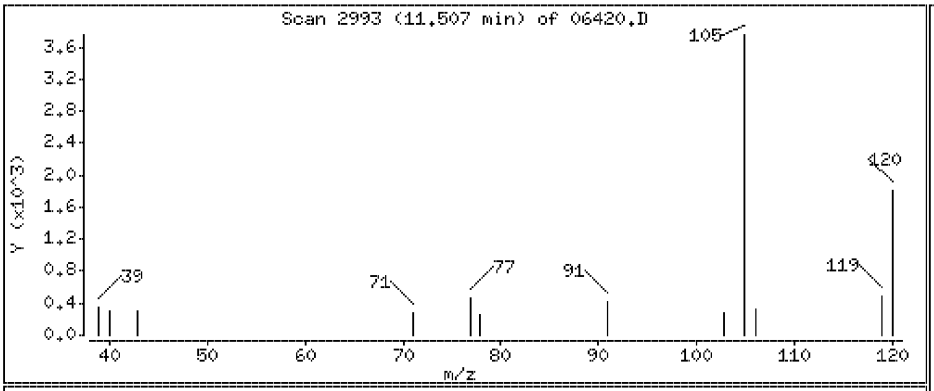
Operator: NCK

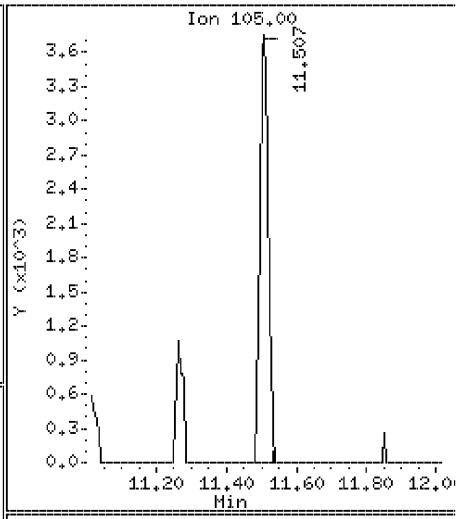
Column phase: J&W DB-5

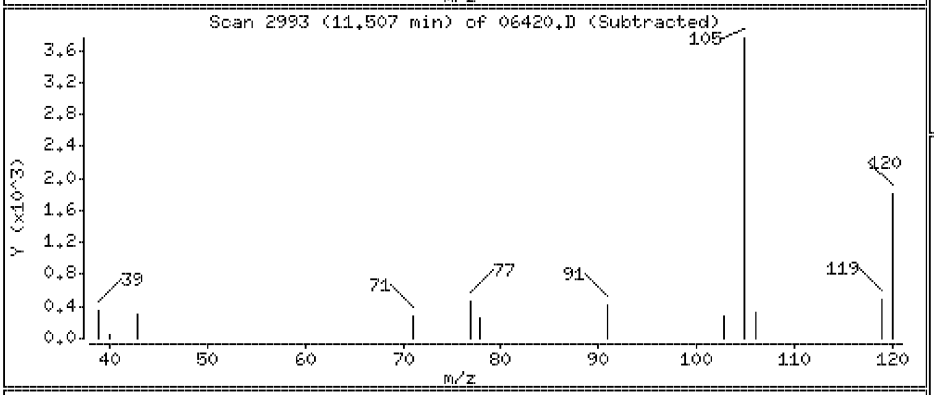
Column diameter: 0.32

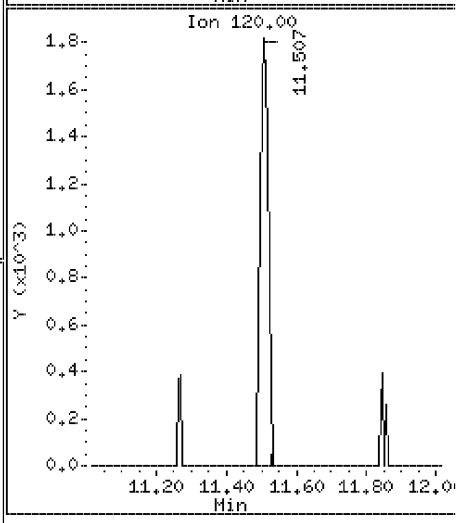
82 1,2,4-Trimethylbenzene

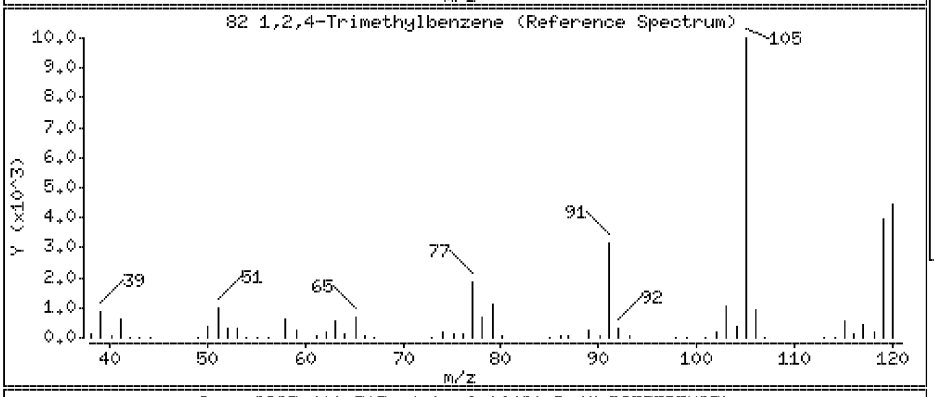
Concentration: 0.238 ppbv

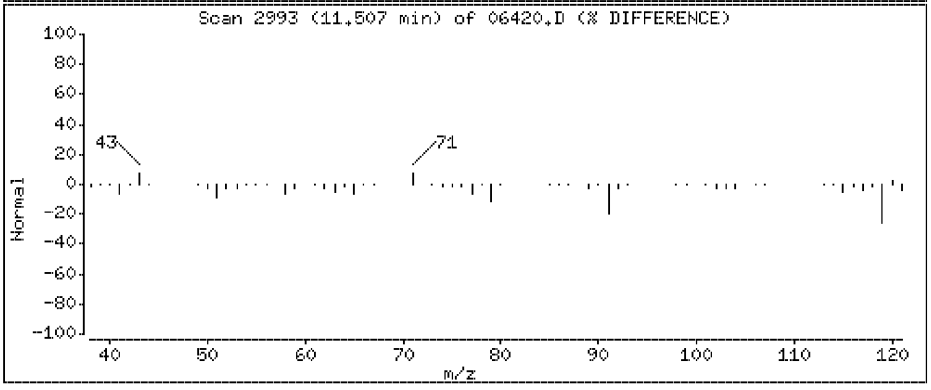












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06420.D

Date : 05-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

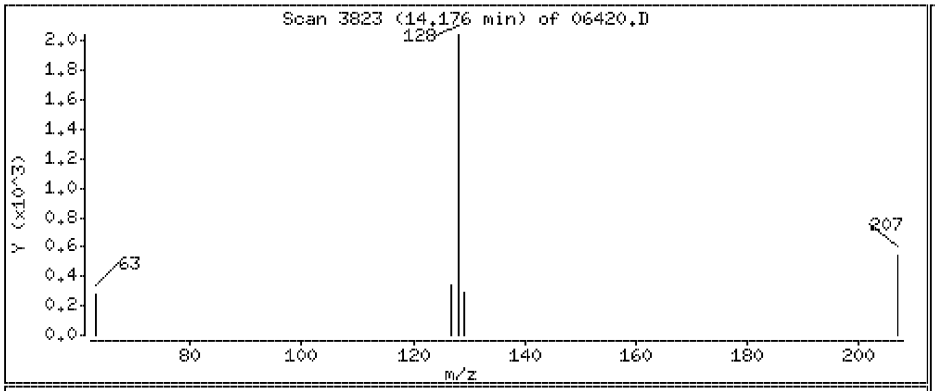
Operator: NCK

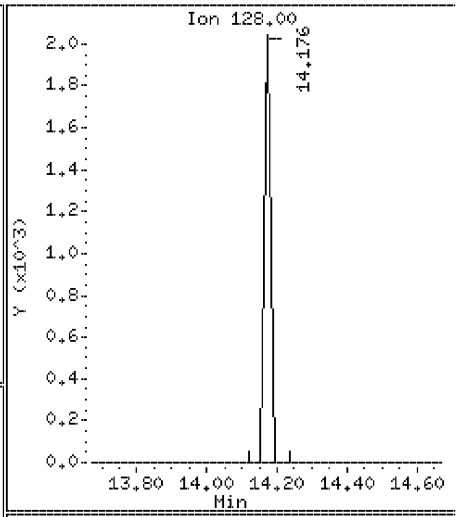
Column phase: J&W DB-5

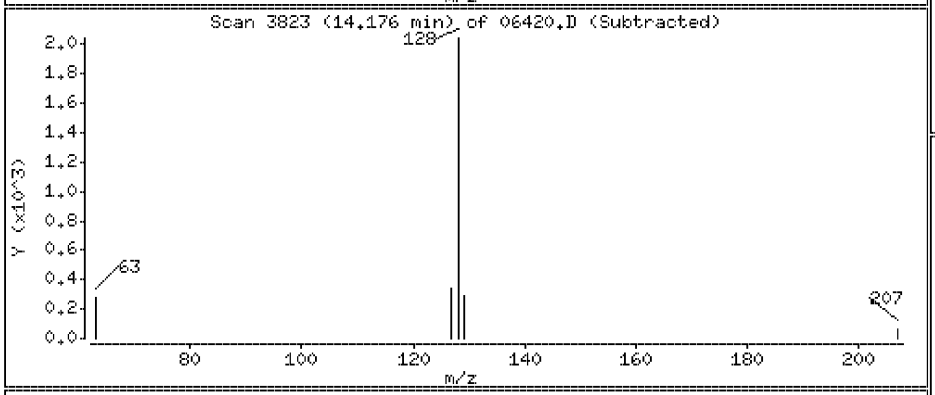
Column diameter: 0.32

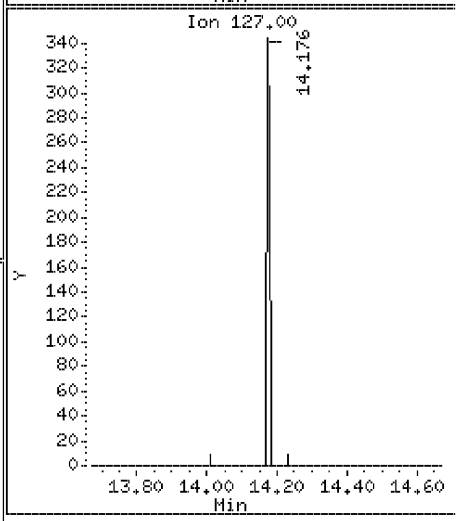
94 Naphthalene

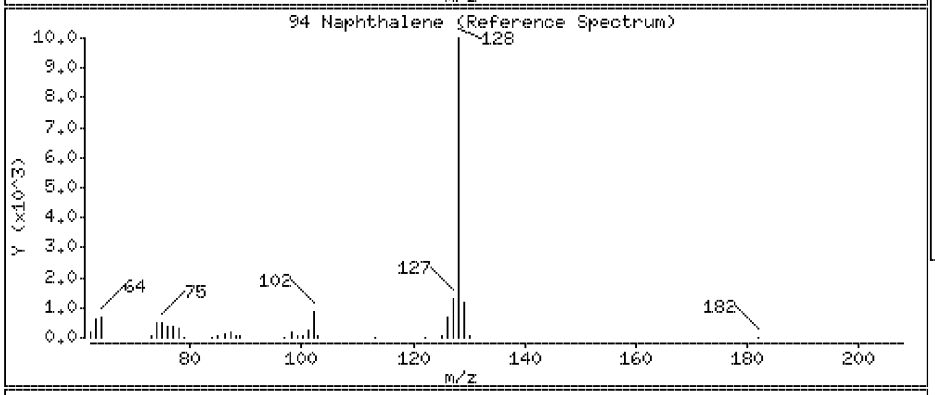
Concentration: 0.735 ppbv

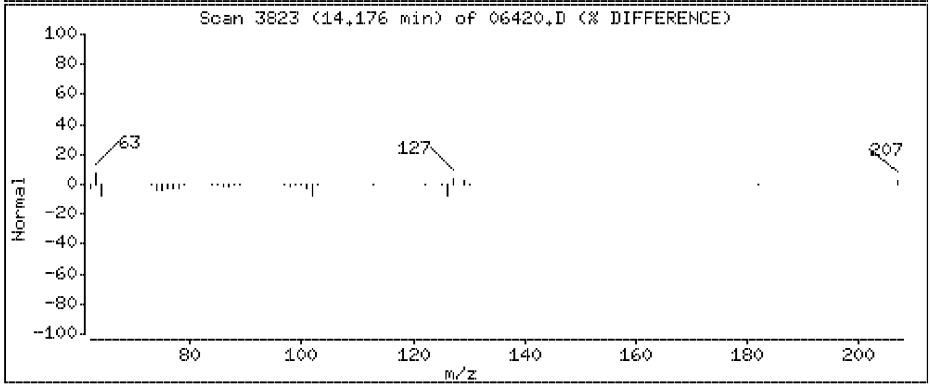






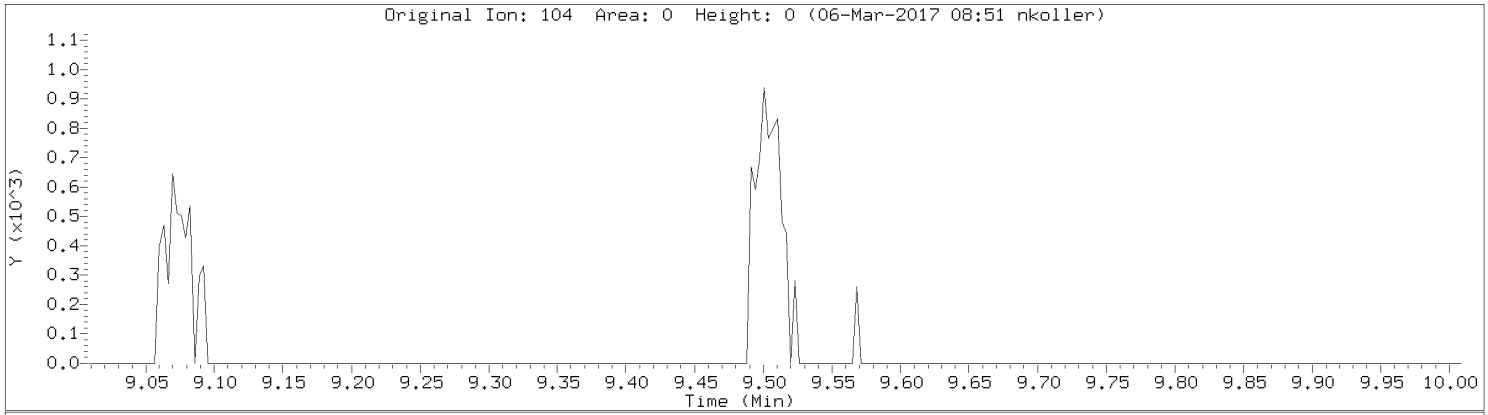


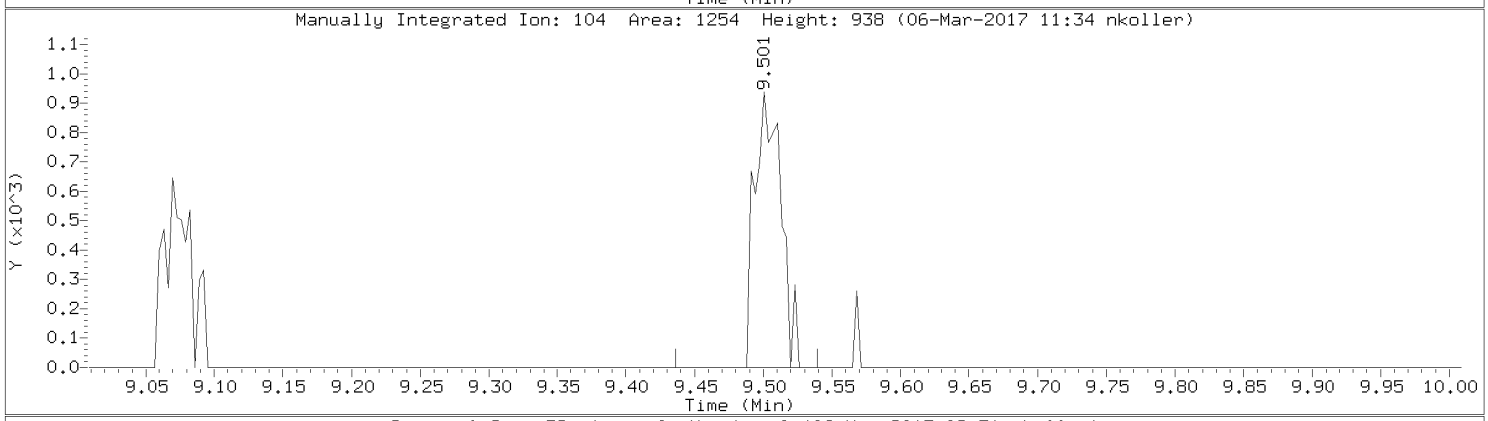


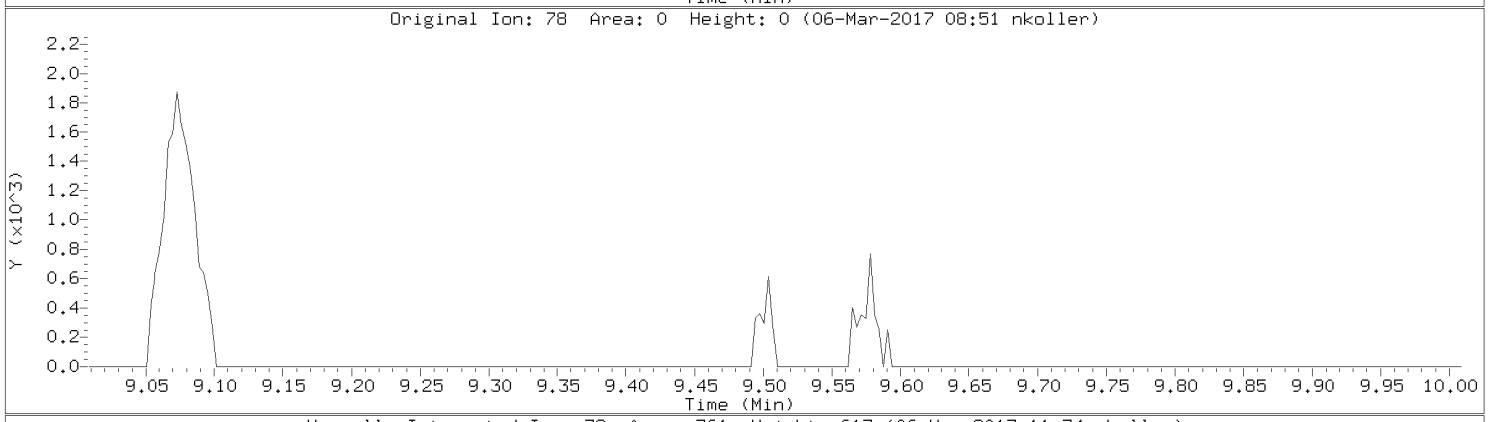


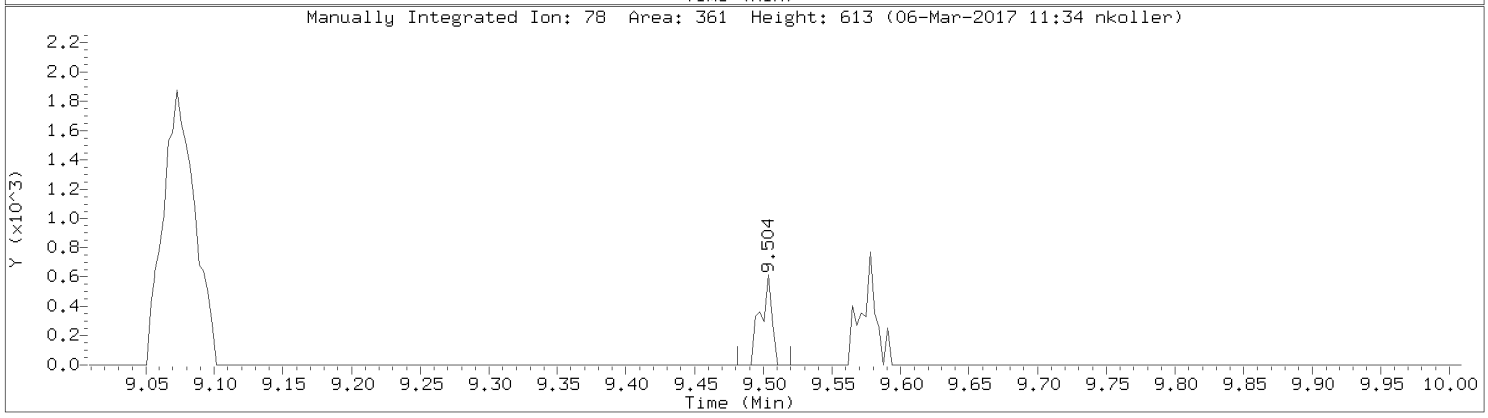
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06420.D
Injection Date: 05-MAR-2017 18:53
Instrument: 10airB.i
Lab Sample ID: 10380193002

Compound: Styrene
CAS Number: 100-42-5

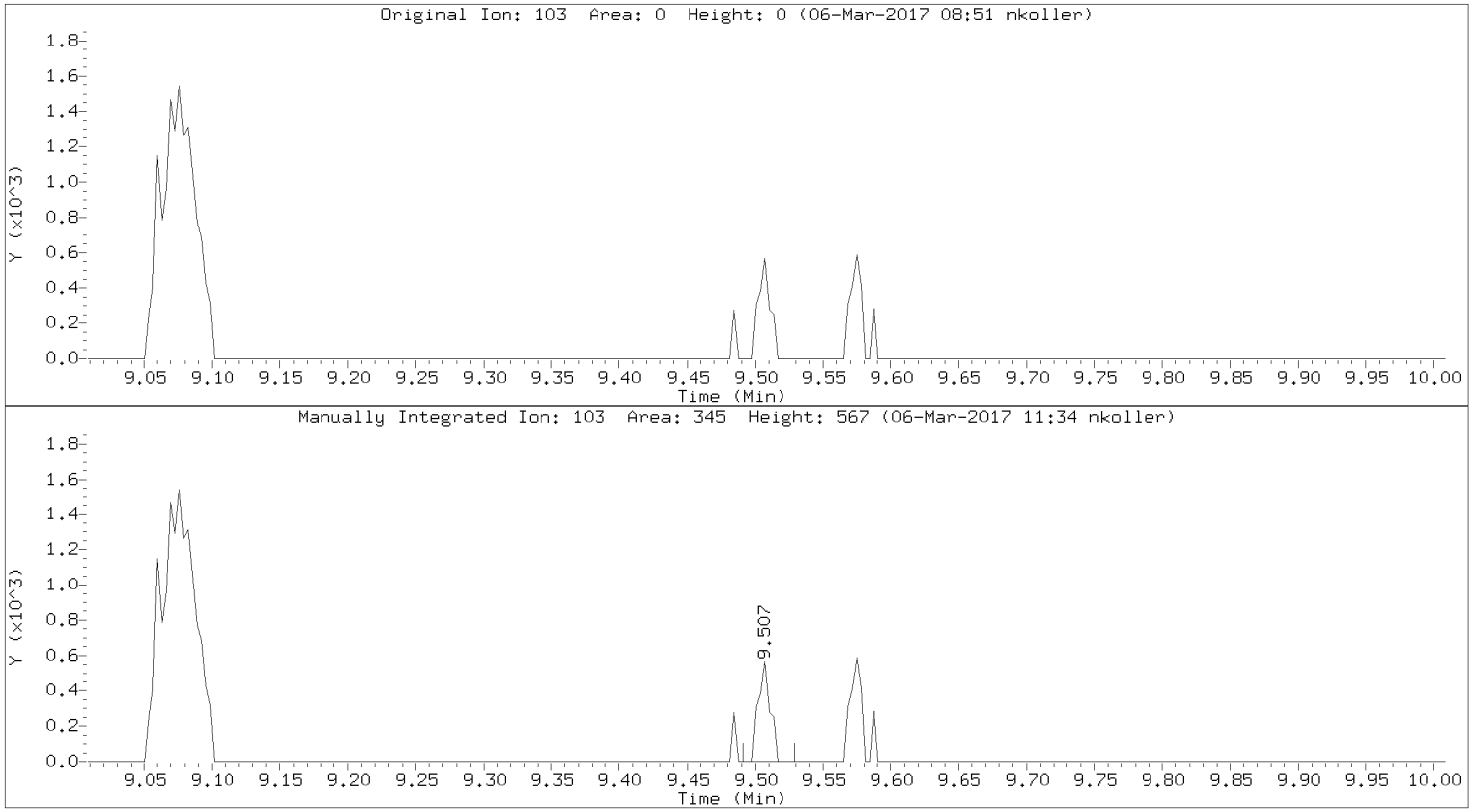






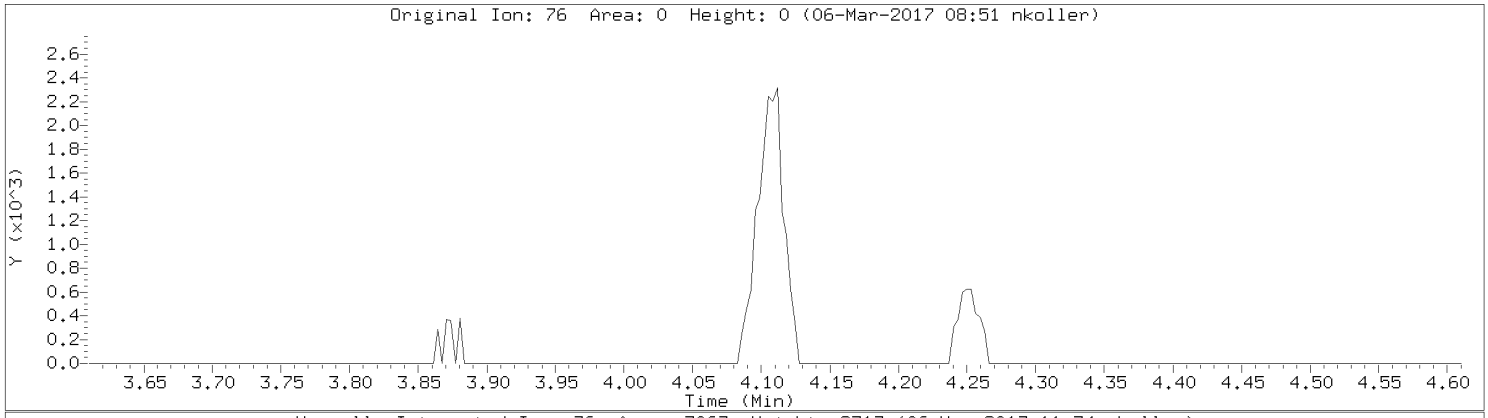


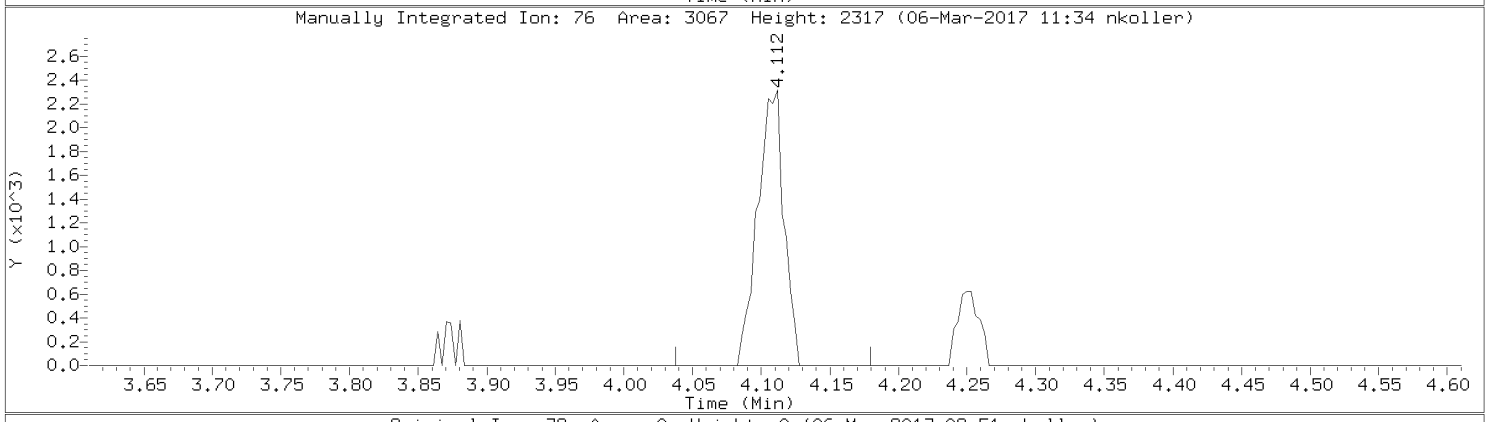
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06420.D
Injection Date: 05-MAR-2017 18:53
Instrument: 10airB.i
Lab Sample ID: 10380193002

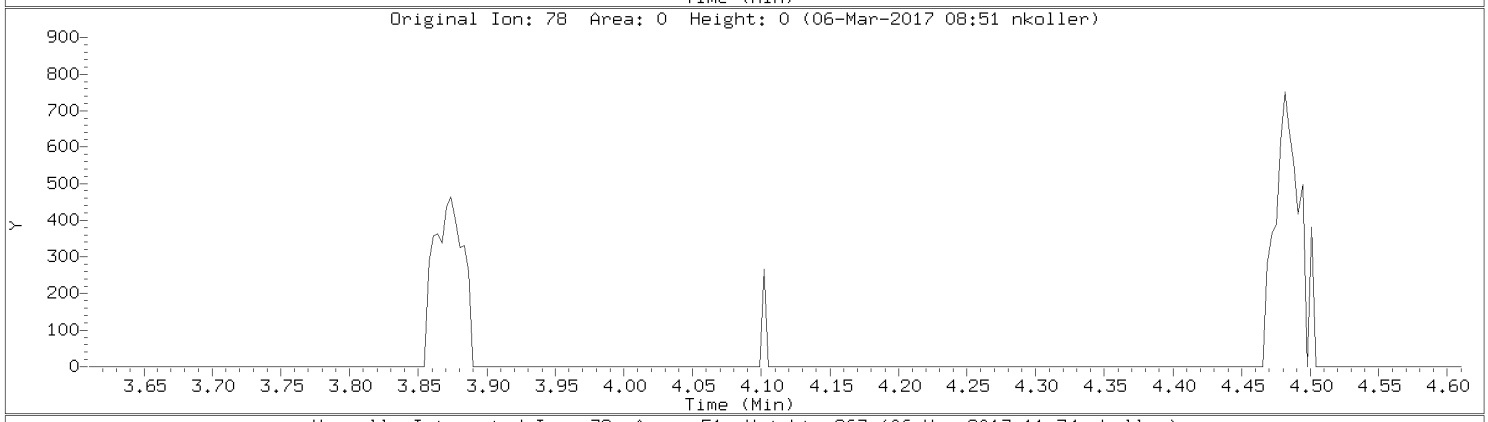


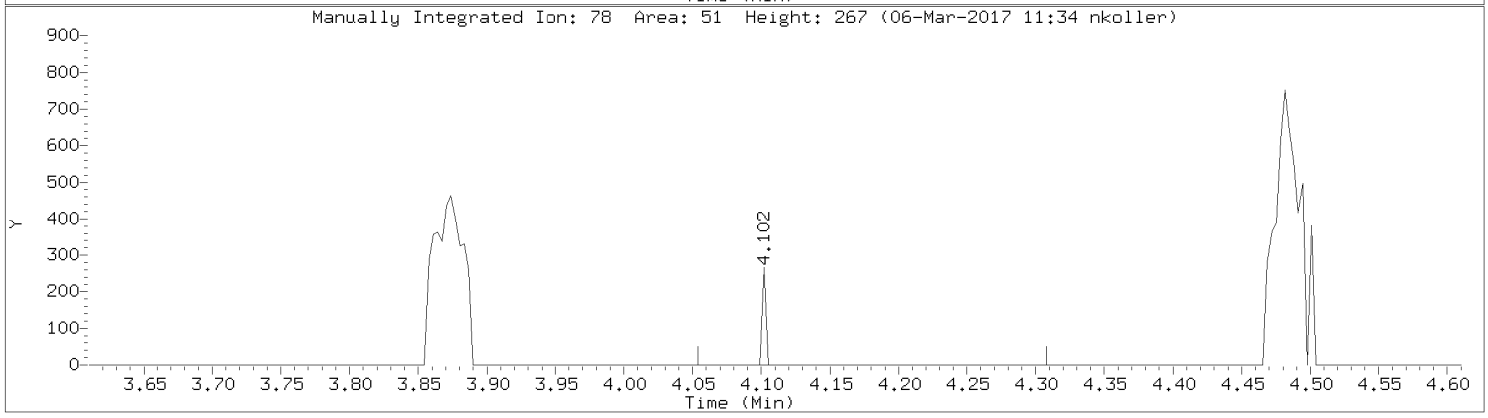
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06420.D
Injection Date: 05-MAR-2017 18:53
Instrument: 10airB.i
Lab Sample ID: 10380193002

Compound: Carbon Disulfide
CAS Number: 75-15-0



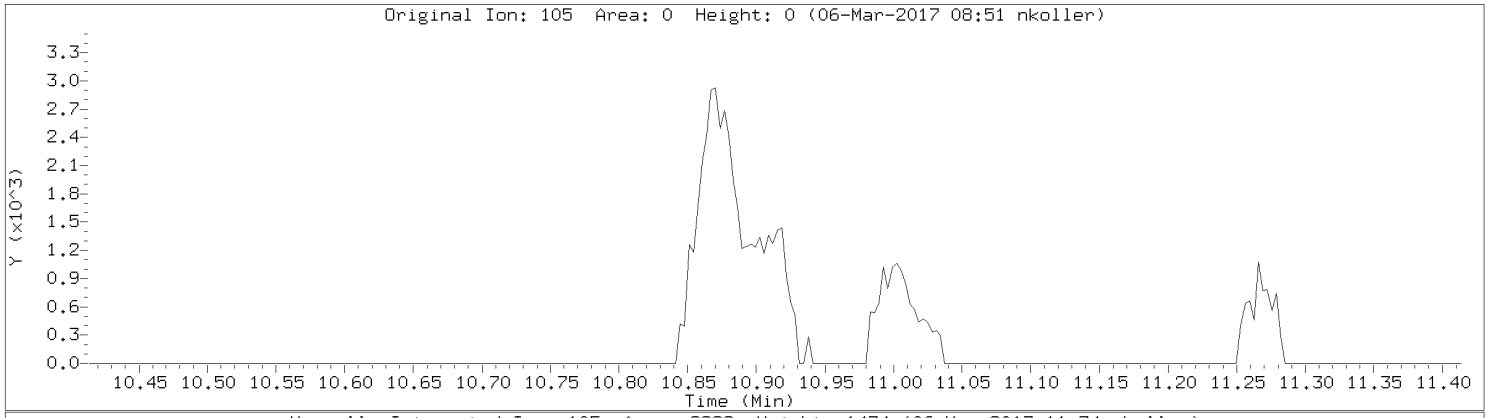


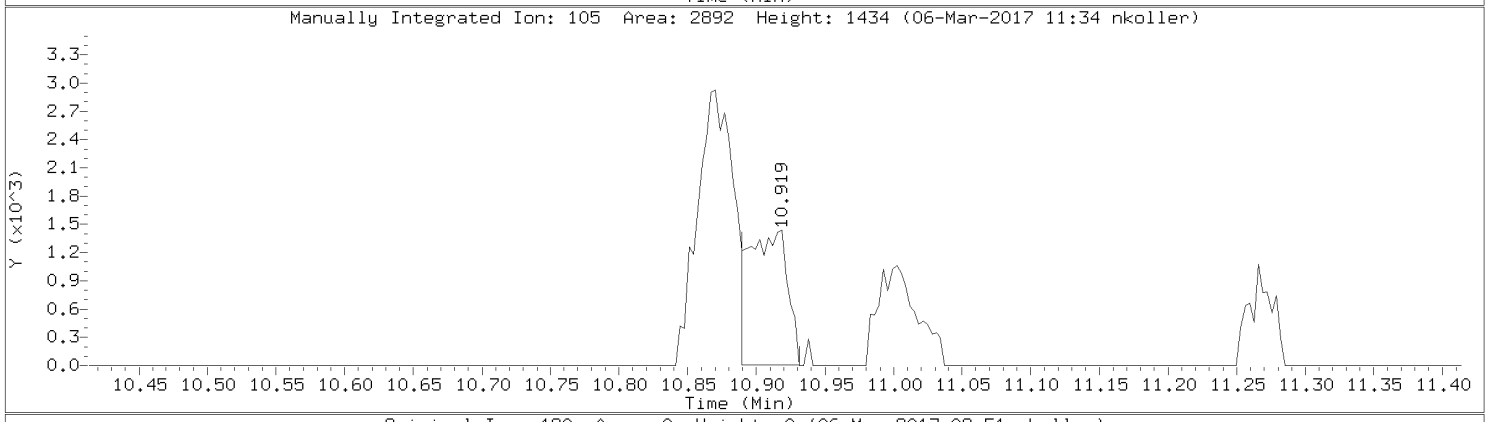


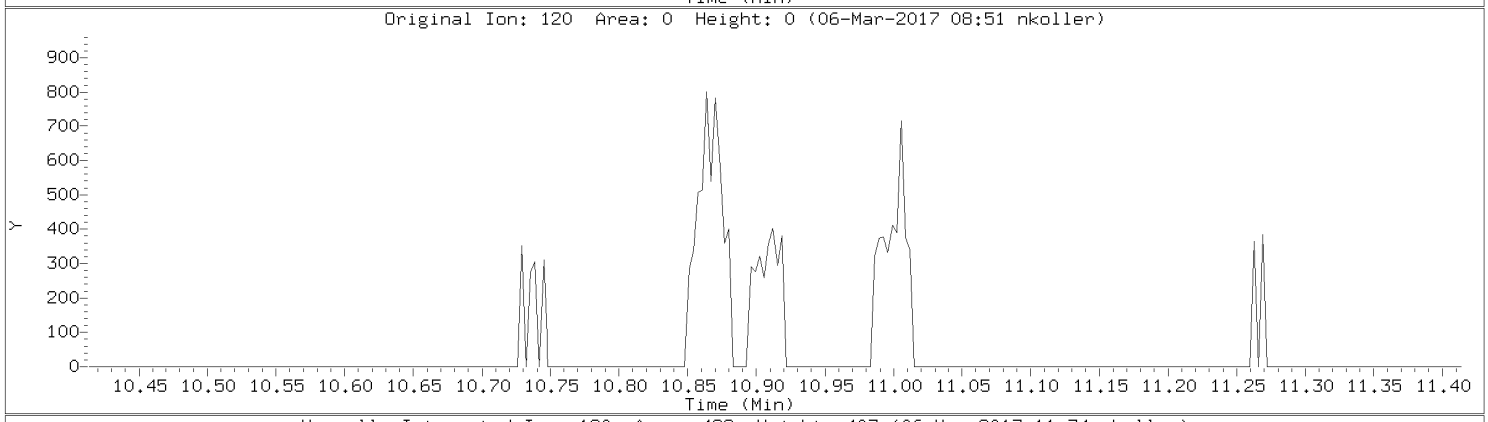


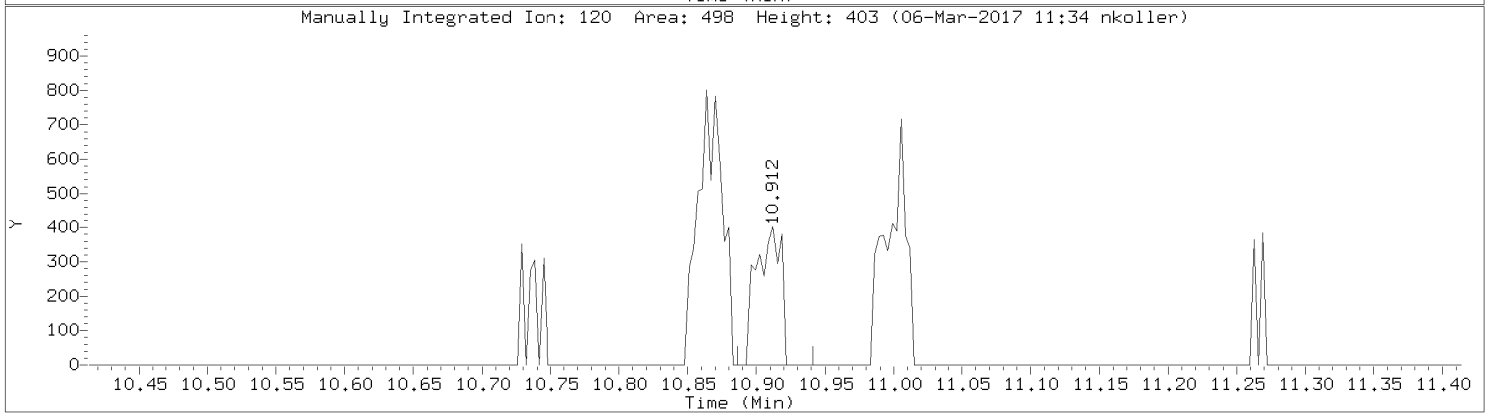
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06420.D
Injection Date: 05-MAR-2017 18:53
Instrument: 10airB.i
Lab Sample ID: 10380193002

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

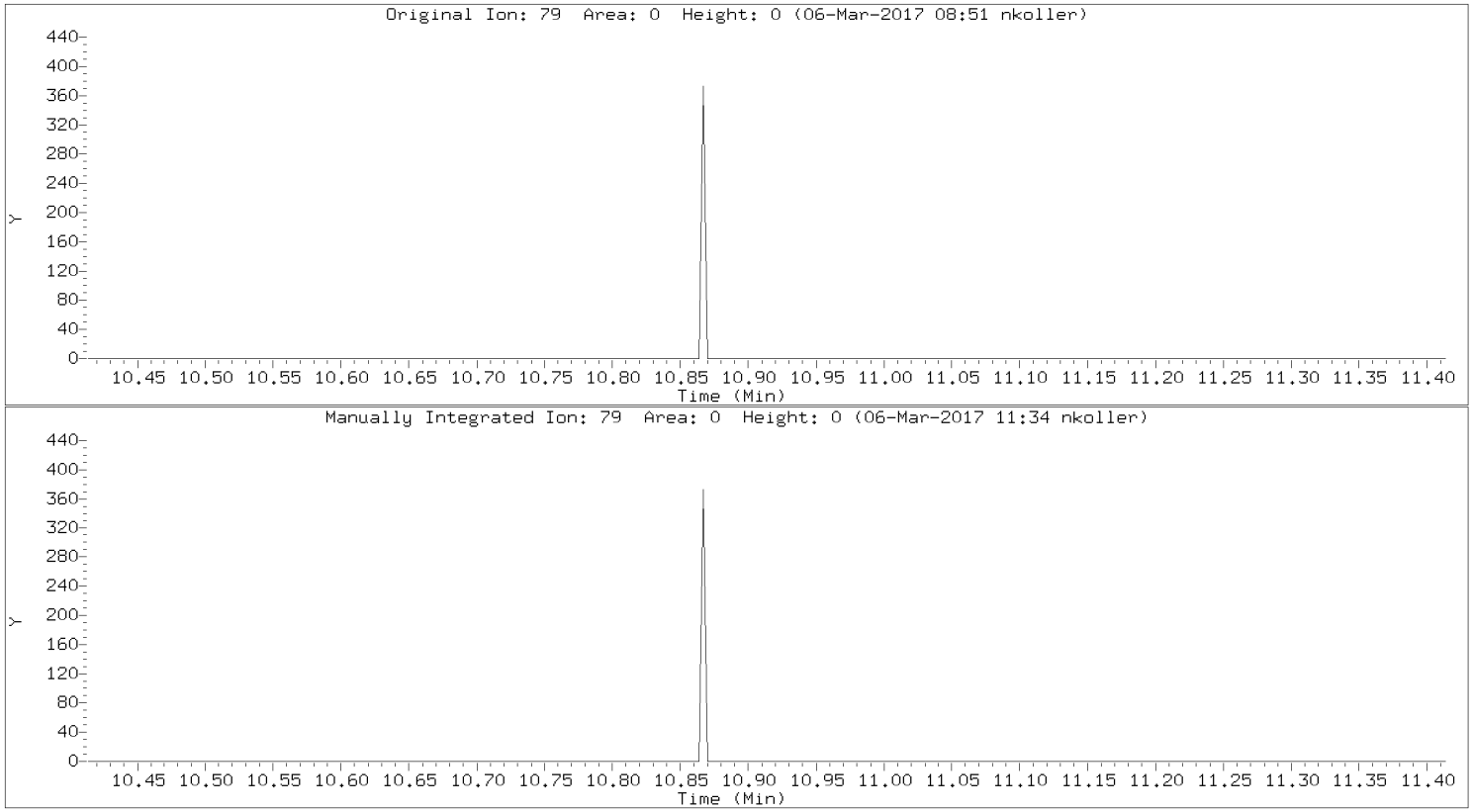






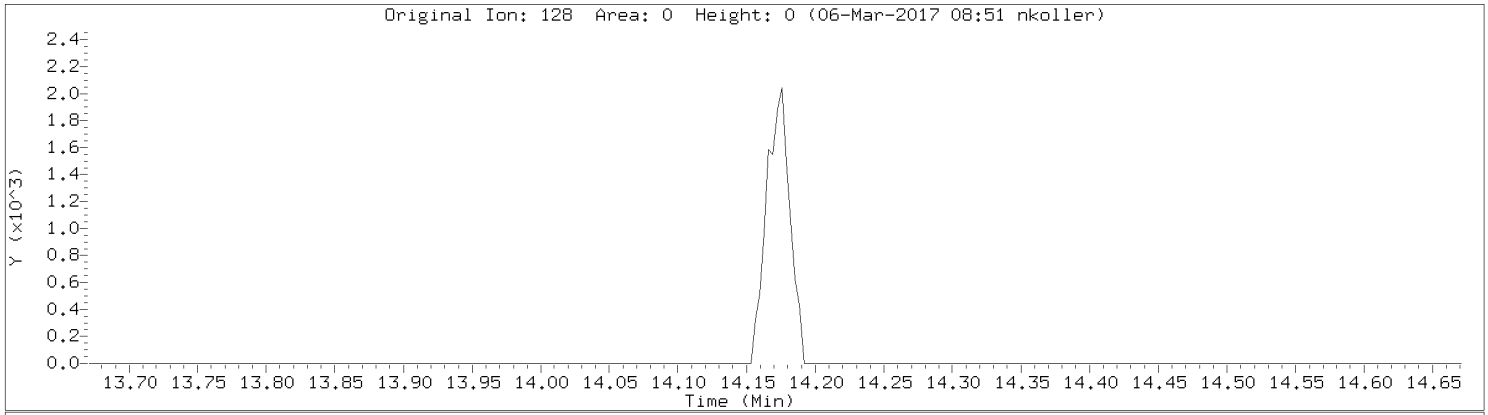


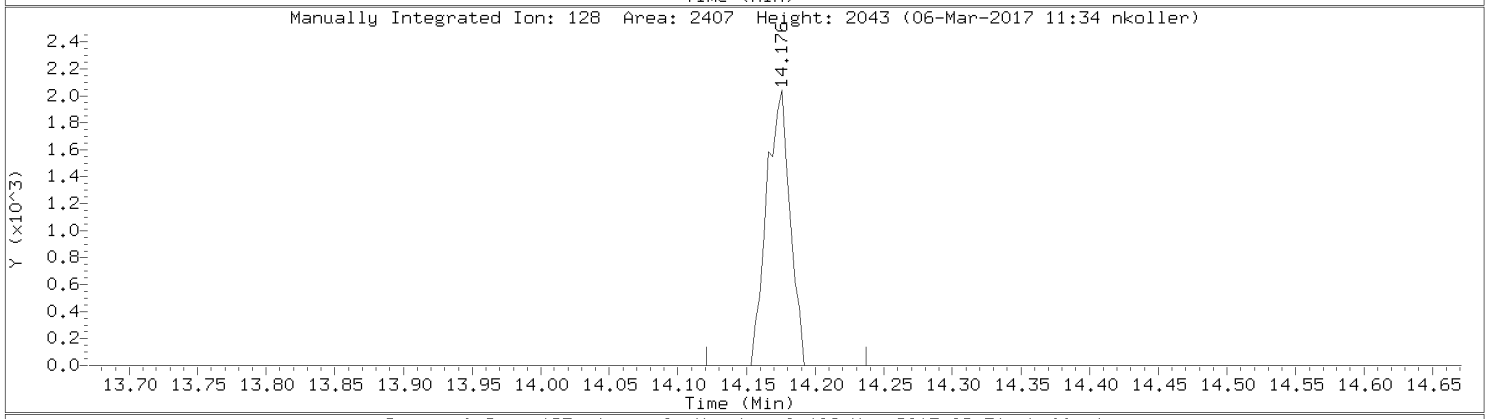
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06420.D
Injection Date: 05-MAR-2017 18:53
Instrument: 10airB.i
Lab Sample ID: 10380193002

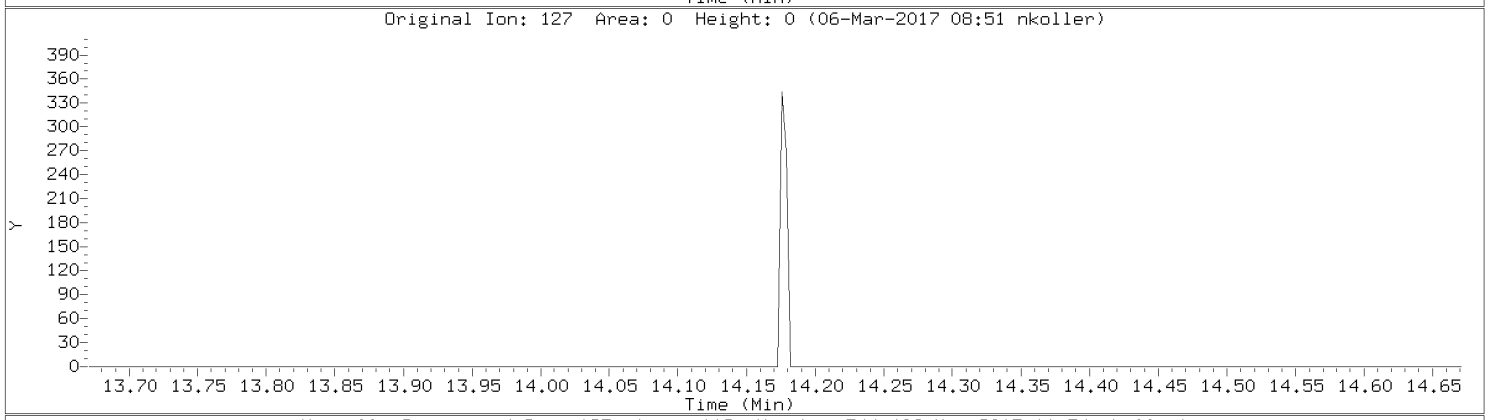


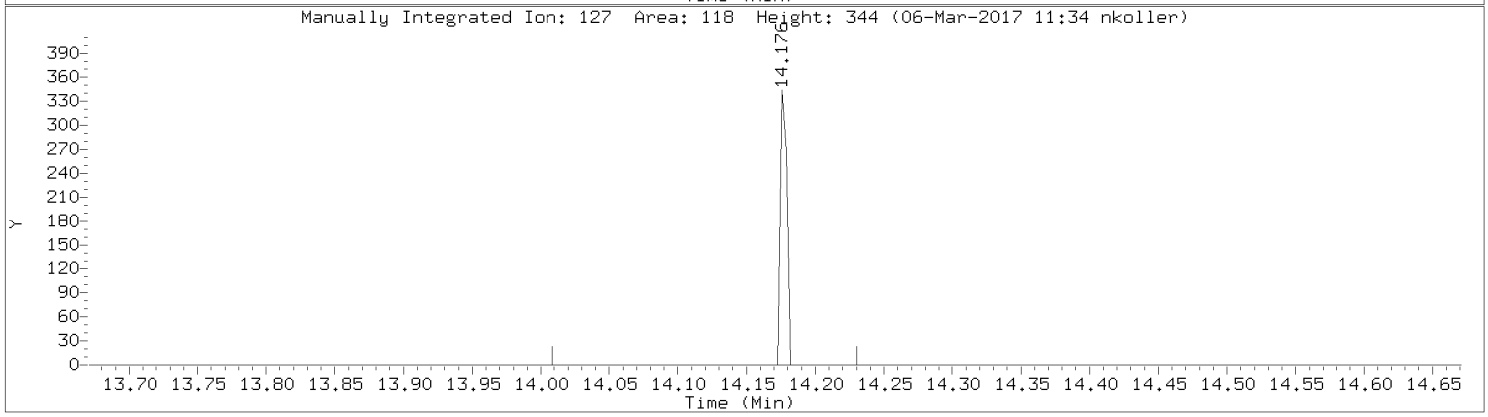
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06420.D
Injection Date: 05-MAR-2017 18:53
Instrument: 10airB.i
Lab Sample ID: 10380193002

Compound: Naphthalene
CAS Number: 91-20-3









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_20_20170223 **Lab ID: 10380193003** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**18.8**	ug/m3	4.6	1.6	1.92		03/05/17 19:59	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 19:59	107-05-1	
Benzene	**1.1**	ug/m3	0.62	0.23	1.92		03/05/17 19:59	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 19:59	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 19:59	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 19:59	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 19:59	106-99-0	
2-Butanone (MEK)	**3.2J**	ug/m3	5.8	0.44	1.92		03/05/17 19:59	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 19:59	75-15-0	
Carbon tetrachloride	**4.6**	ug/m3	1.2	0.37	1.92		03/05/17 19:59	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 19:59	108-90-7	
Chlorodifluoromethane	**218**	ug/m3	1.4	0.53	1.92		03/05/17 19:59	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 19:59	75-00-3	
Chloroform	**8.0**	ug/m3	0.95	0.36	1.92		03/05/17 19:59	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/05/17 19:59	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 19:59	76-15-3	CL
Cyclohexane	**1.3J**	ug/m3	1.3	0.61	1.92		03/05/17 19:59	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 19:59	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 19:59	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 19:59	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 19:59	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 19:59	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 19:59	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.9	0.92	1.92		03/05/17 19:59	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 19:59	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 19:59	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 19:59	75-35-4	
cis-1,2-Dichloroethene	**14.4**	ug/m3	1.6	0.47	1.92		03/05/17 19:59	156-59-2	
trans-1,2-Dichloroethene	**1.6**	ug/m3	1.6	0.74	1.92		03/05/17 19:59	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 19:59	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 19:59	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 19:59	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 19:59	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 19:59	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 19:59	123-91-1	
Ethylbenzene	**2.1**	ug/m3	1.7	0.82	1.92		03/05/17 19:59	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.9	0.36	1.92		03/05/17 19:59	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/05/17 19:59	87-68-3	
n-Hexane	**1.9**	ug/m3	1.4	0.69	1.92		03/05/17 19:59	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 19:59	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 19:59	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 19:59	79-20-9	
Methylcyclohexane	**0.96J**	ug/m3	1.6	0.46	1.92		03/05/17 19:59	108-87-2	
Methylene Chloride	**<1.0**	ug/m3	6.8	1.0	1.92		03/05/17 19:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 19:59	108-10-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D
Report Date: 07-Mar-2017 15:32

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06422.D
Lab Smp Id: 10380193003
Inj Date : 05-MAR-2017 19:59
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 22
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.028	2.989	(0.540)	104442	31.5750	60.6	(AQM)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.021	(0.546)	12130	0.28523	0.548	(H)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.546	3.542	(0.632)	32338	7.45527	14.3	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.658	3.655	(0.652)	5258	0.16246	0.312	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.722	3.713	(0.664)	75840	4.04904	7.77	
19	Isopropyl Alcohol	45	3.771	3.764	(0.672)	16538	0.86576	1.66	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.944	3.934	(0.703)	48940	2.00248	3.84	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D
Report Date: 07-Mar-2017 15:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.256	4.269	(0.759)	2126	0.20131	0.387(Q)	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	4.443	4.385	(0.792)	9368	0.47674	0.915(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.481	(0.799)	344264	9.16623	9.17	
	33 Methyl Ethyl Ketone	72	4.565	4.552	(0.814)	2710	0.55491	1.07(Q)	
	34 n-Hexane	57	4.574	4.578	(0.815)	5065	0.26906	0.517(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.729	4.713	(0.843)	4939	0.20386	0.391(Q)	
	37 cis-1,2-Dichloroethene	96	4.703	4.722	(0.838)	21883	1.85457	3.56(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.819	4.838	(0.859)	20479	0.83737	1.61	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.455	5.465	(0.972)	6460	0.16968	0.326	
	44 Carbon tetrachloride	117	5.475	5.484	(0.976)	10762	0.37428	0.719	
	45 Cyclohexane	56	5.481	5.484	(0.977)	3635	0.19073	0.366(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	1180495	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.886	5.889	(1.049)	4450	0.20918	0.402	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.983	5.986	(1.066)	1857634	93.6566	180(AH)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	6.426	6.430	(1.146)	1323	0.12249	0.235	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1001463	9.47838	9.48	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.150	7.153	(1.275)	652603	13.6876	26.3	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.574	7.584	(0.876)	9901	0.37797	0.726(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	197063	7.41035	14.2	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	765836	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.934	(1.033)	13948	0.24762	0.475	
	70 m&p-Xylene	91	9.073	9.082	(1.050)	46729	1.05696	2.03	
	71 n-Nonane	43	9.471	9.468	(1.096)	3102	0.13604	0.261(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.577	9.581	(1.108)	11284	0.25088	0.482	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D
Report Date: 07-Mar-2017 15:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.912	10.912	(1.263)	2664	0.13933	0.268(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.381	11.378	(2.029)	2803	0.32775	0.629(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.510	11.513	(1.332)	6973	0.15328	0.294	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	437937	10.3808	10.4	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.169	(1.640)	2266	0.41148	0.790(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D
Report Date: 07-Mar-2017 15:32

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06422.D
Lab Smp Id: 10380193003
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

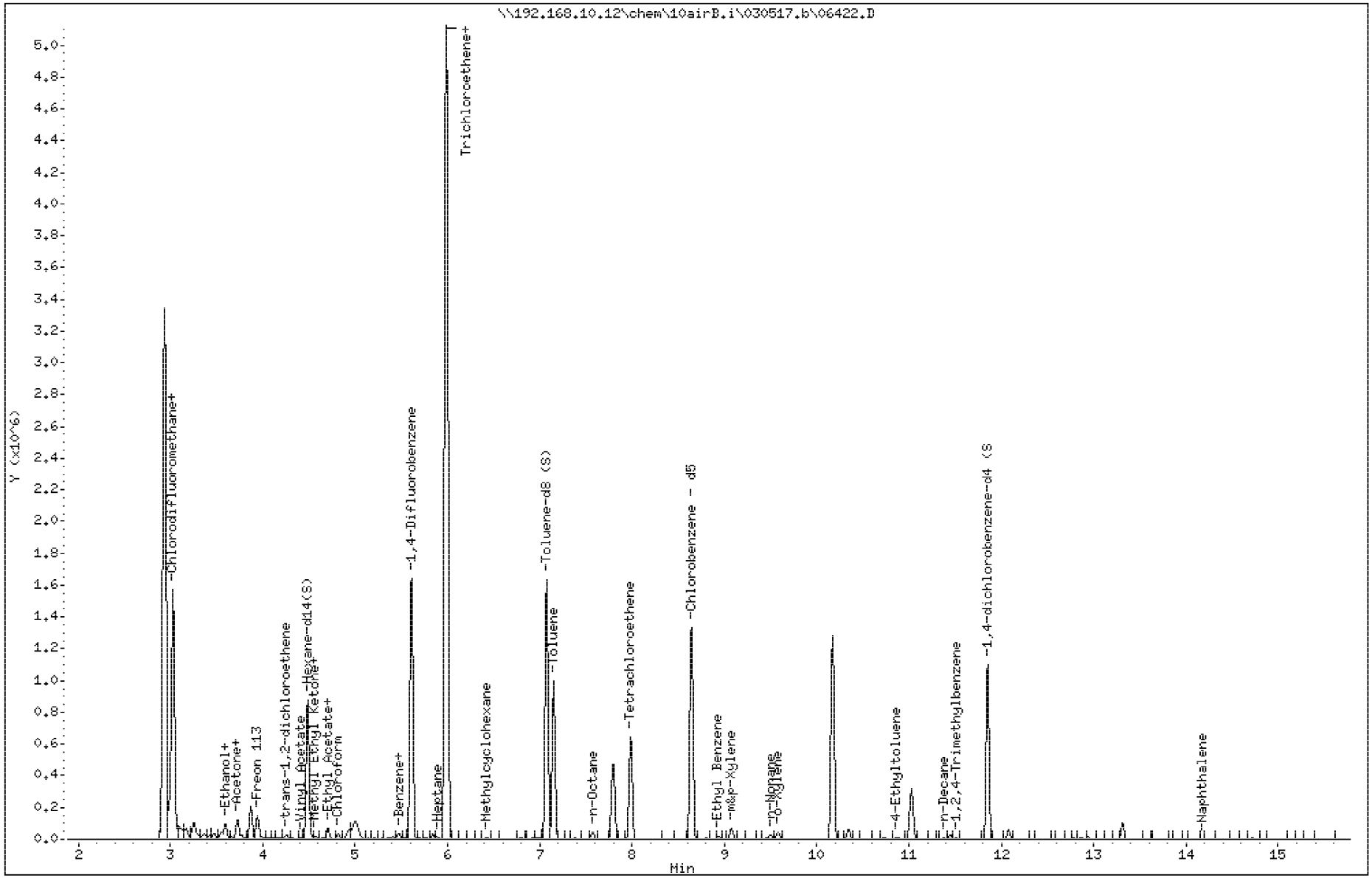
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1180495	-16.52
67 Chlorobenzene - d	951026	570616	1331436	765836	-19.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D
Date : 05-MAR-2017 19:59
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

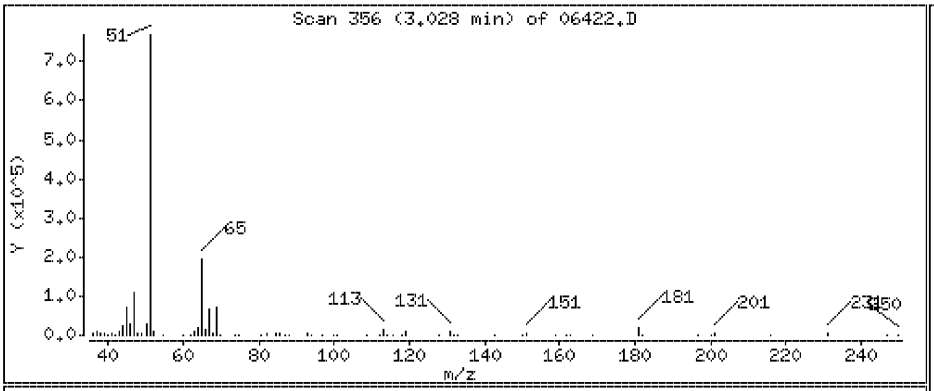
Operator: NCK

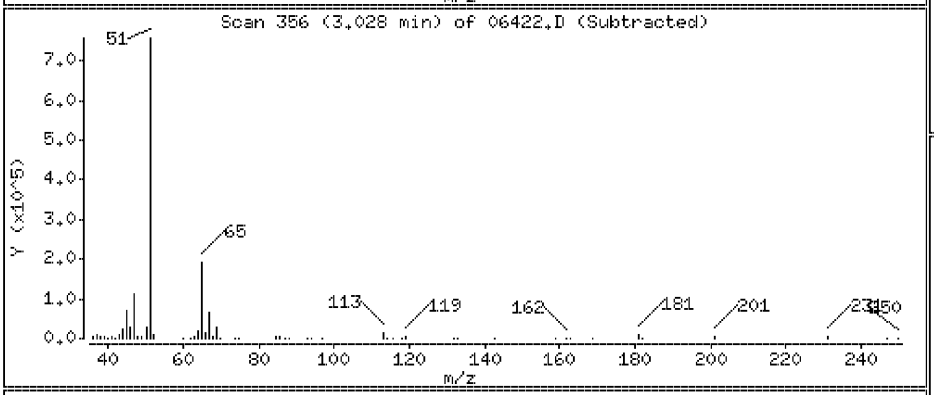
Column phase: J&W DB-5

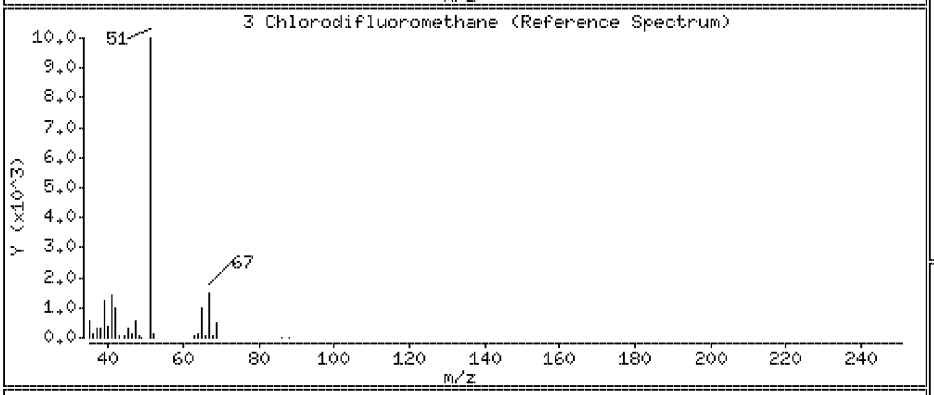
Column diameter: 0.32

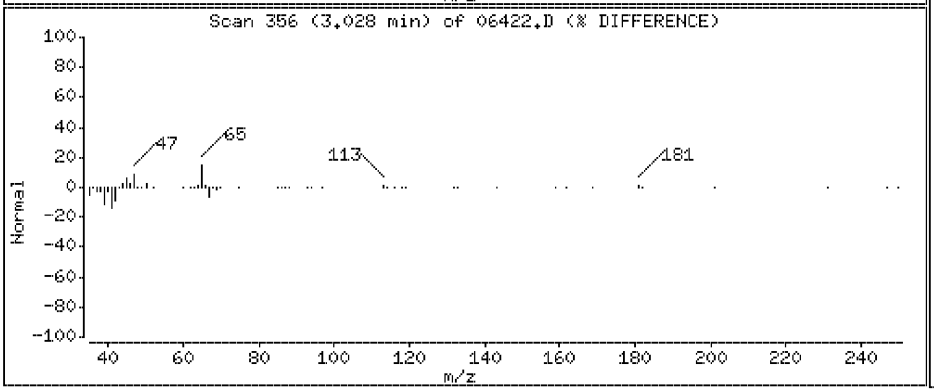
3 Chlorodifluoromethane

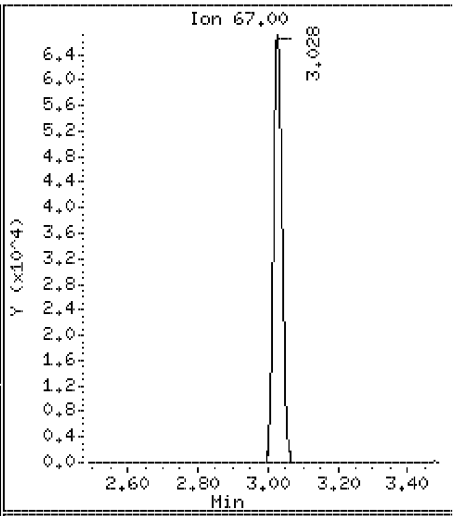
Concentration: 60.6 ppbv

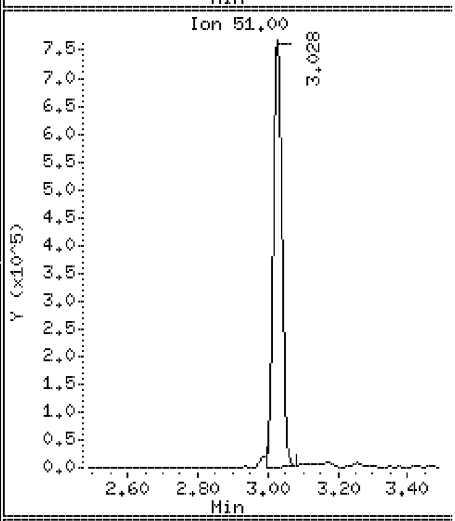


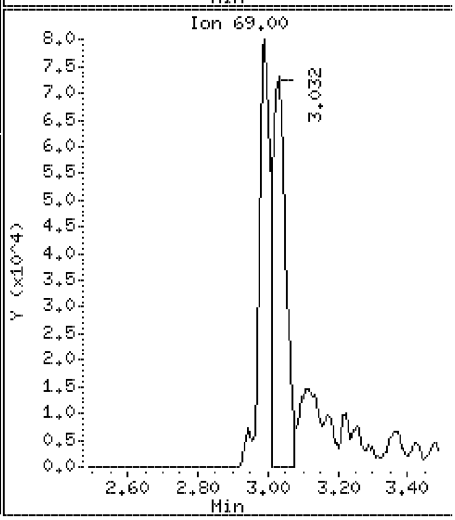












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

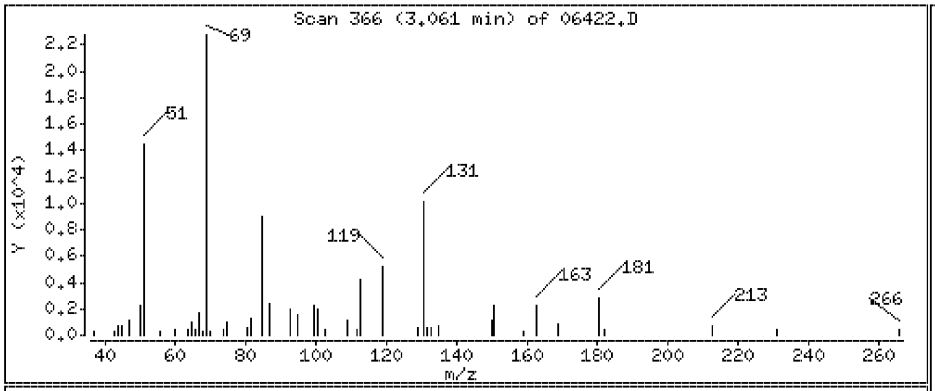
Operator: NCK

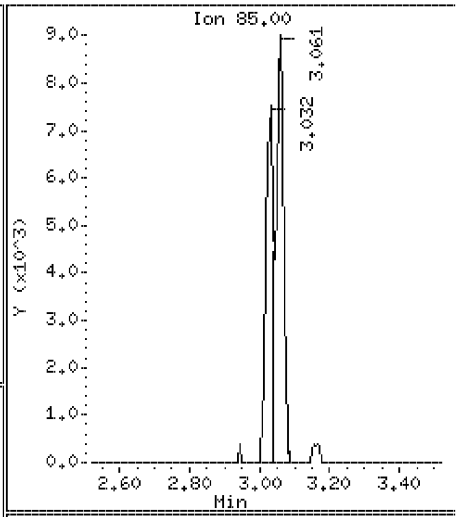
Column phase: J&W DB-5

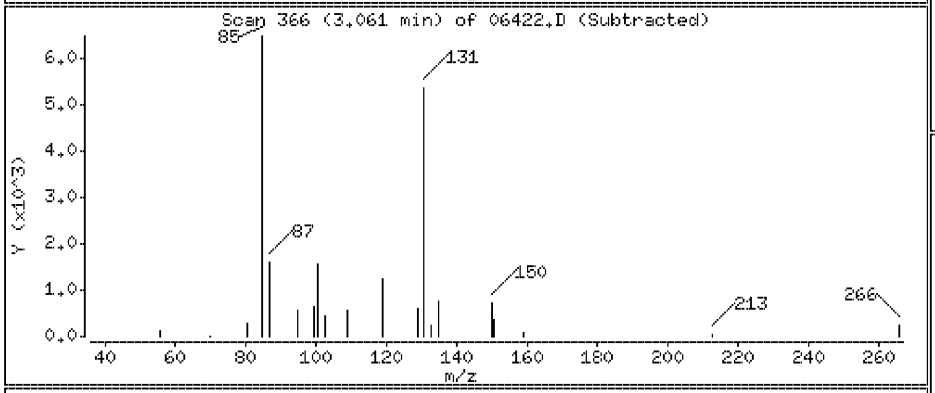
Column diameter: 0.32

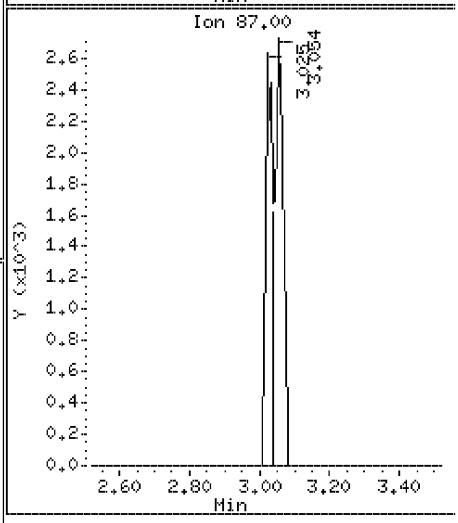
5 Dichlorodifluoromethane

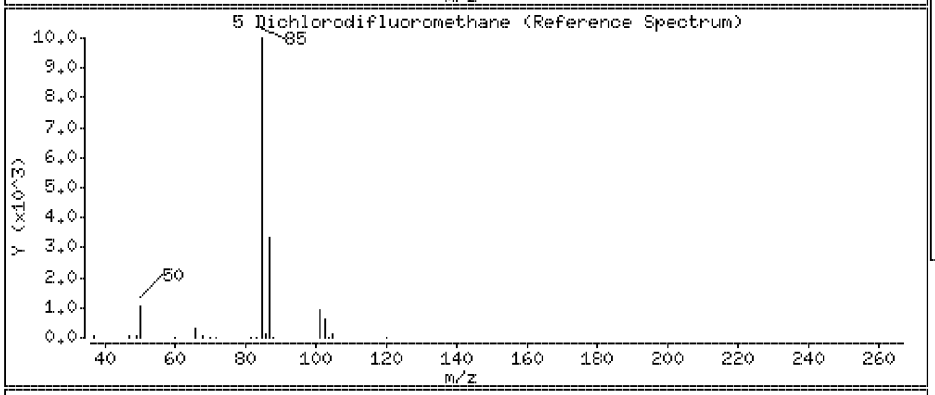
Concentration: 0.548 ppbv

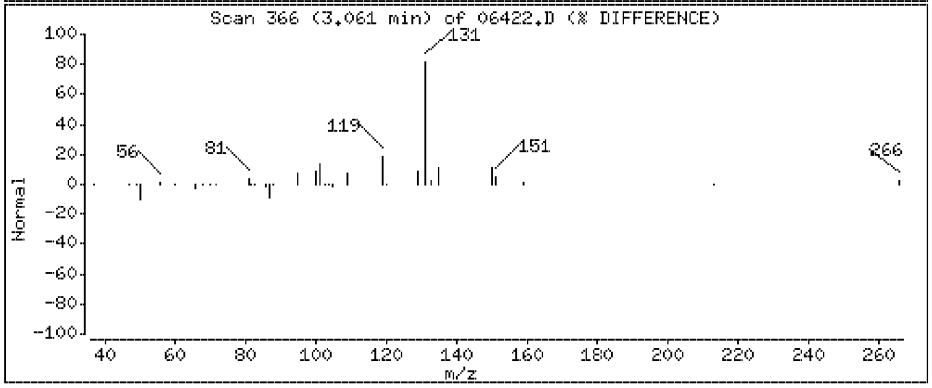












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

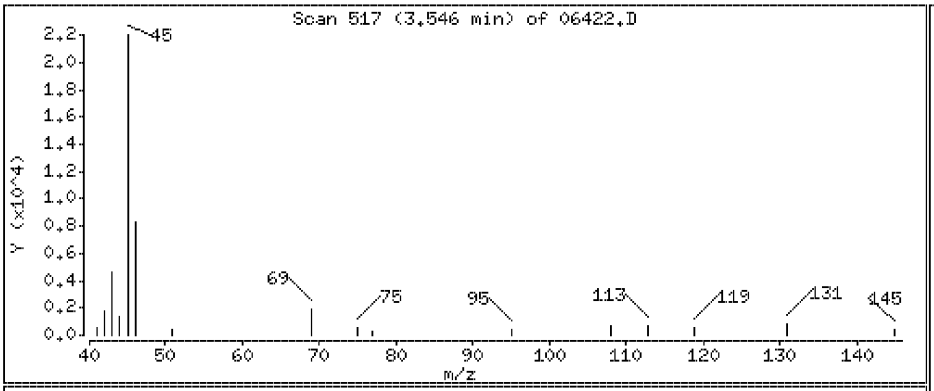
Operator: NCK

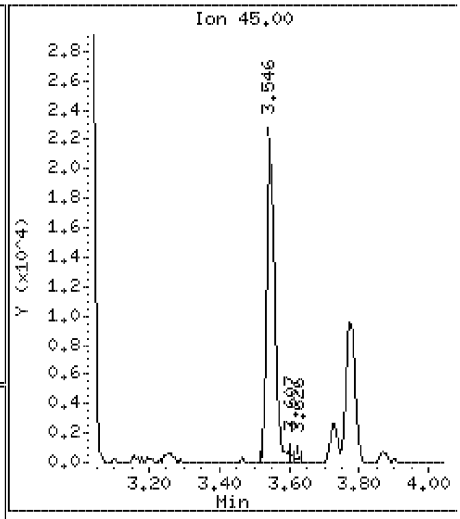
Column phase: J&W DB-5

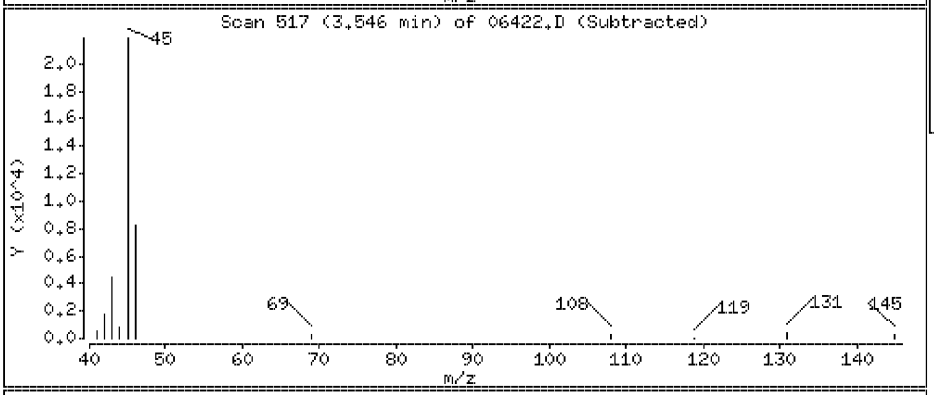
Column diameter: 0.32

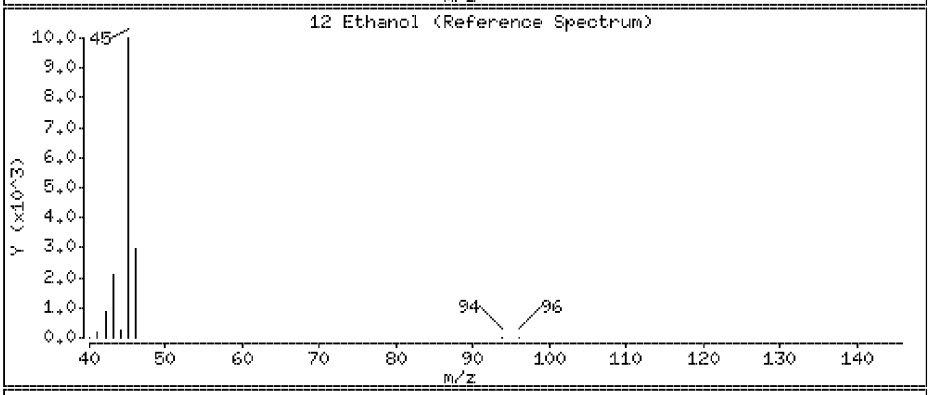
12 Ethanol

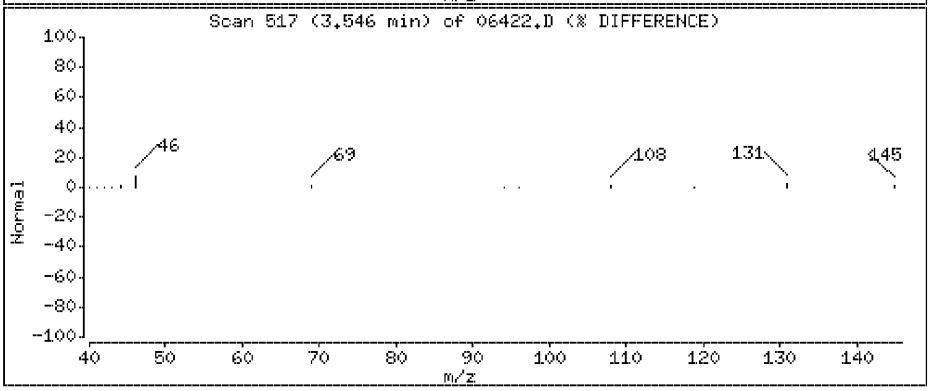
Concentration: 14.3 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

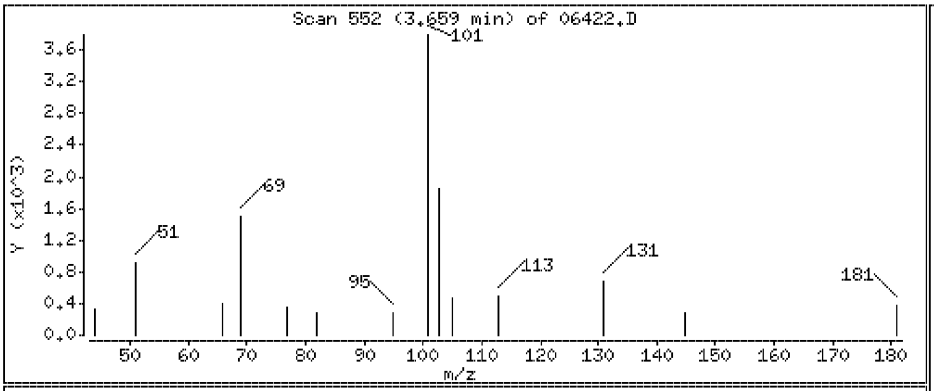
Operator: NCK

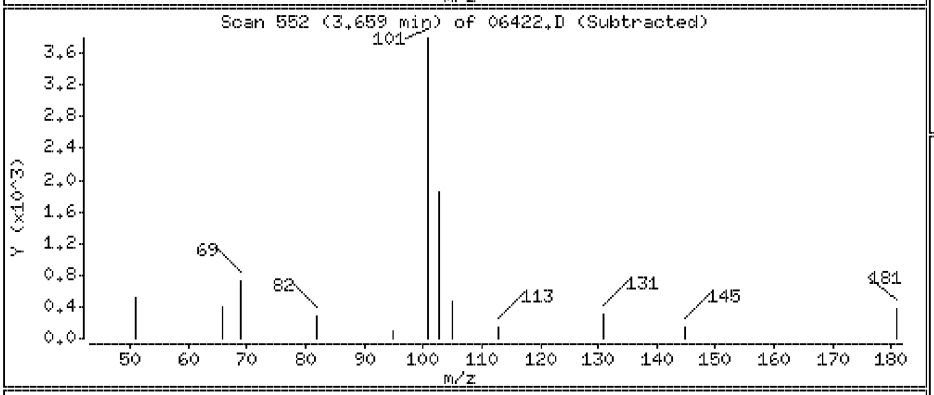
Column phase: J&W DB-5

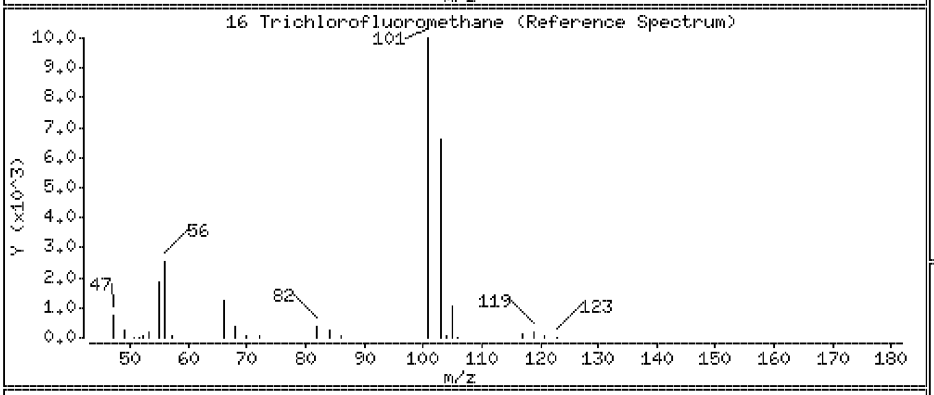
Column diameter: 0.32

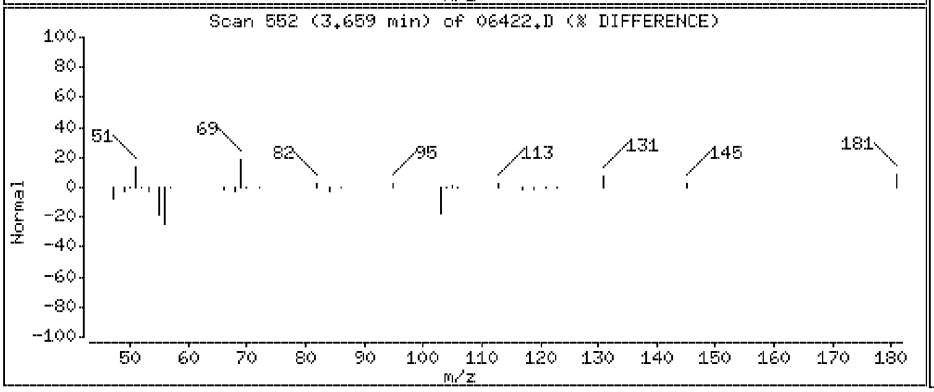
16 Trichlorofluoromethane

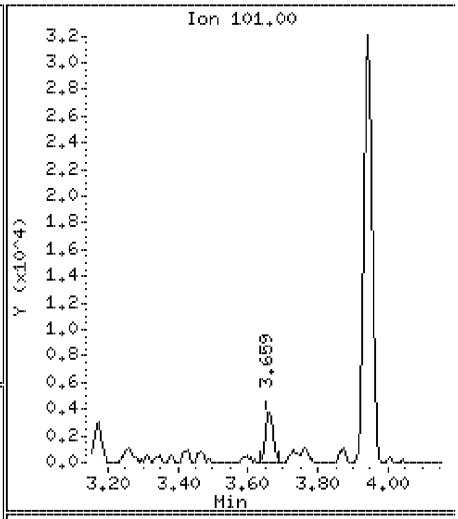
Concentration: 0.312 ppbv

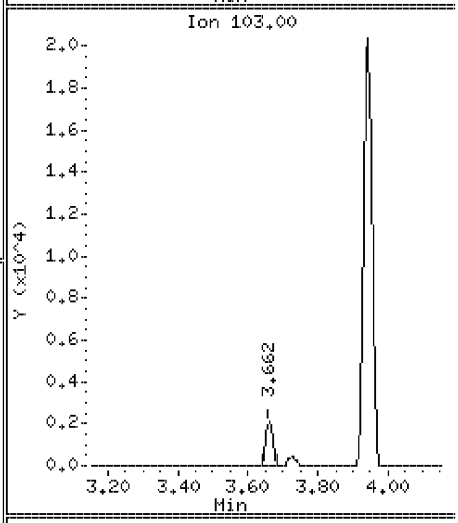


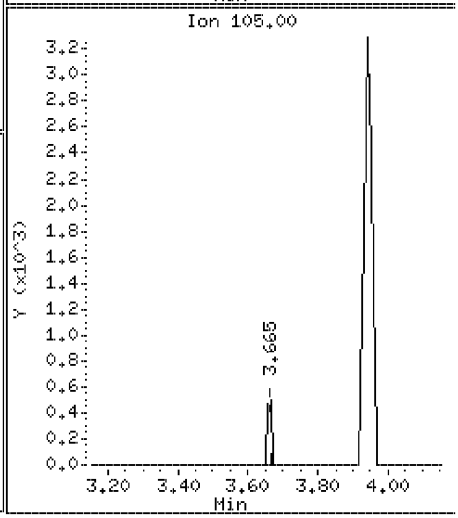












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

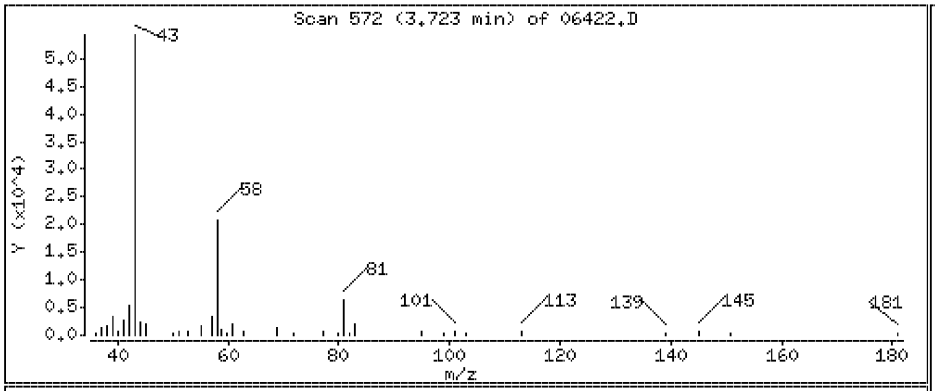
Operator: NCK

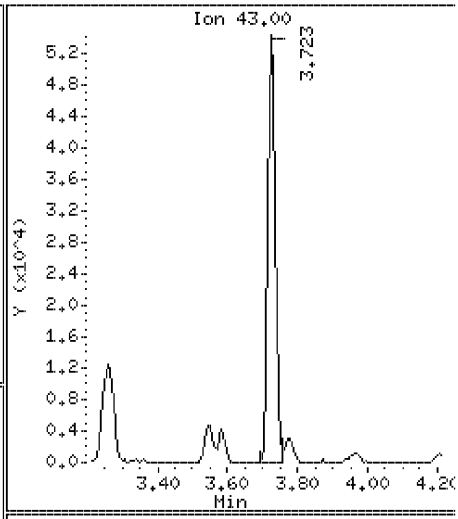
Column phase: J&W DB-5

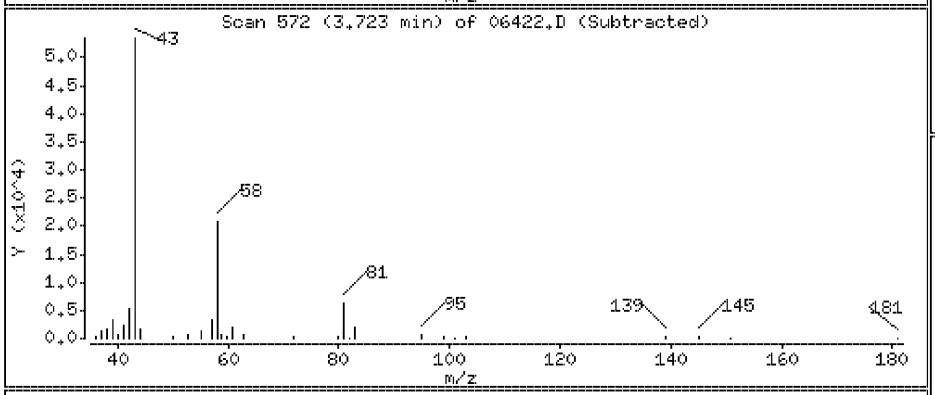
Column diameter: 0.32

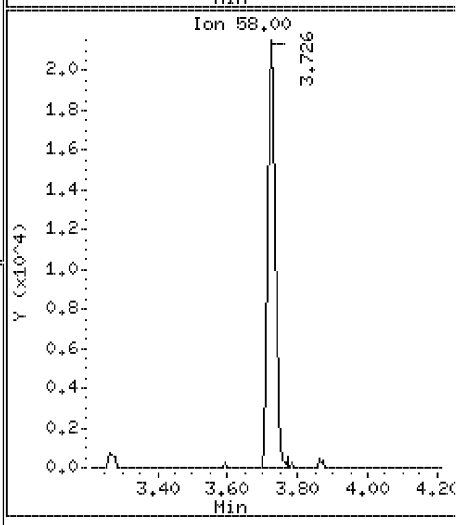
18 Acetone

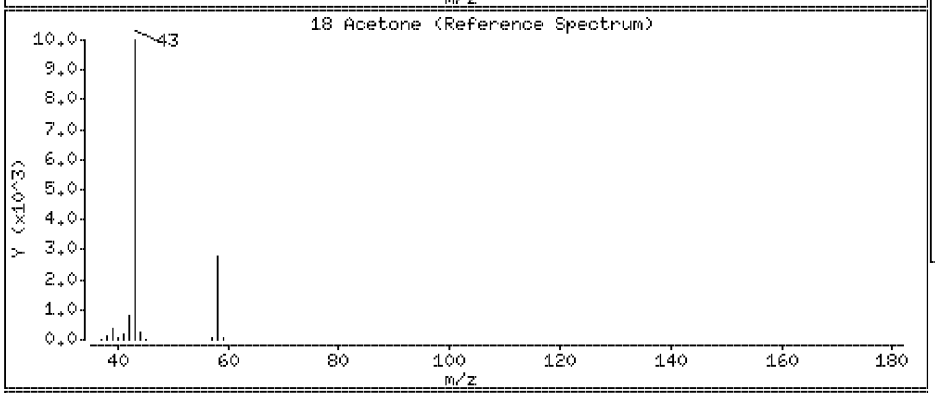
Concentration: 7.77 ppbv

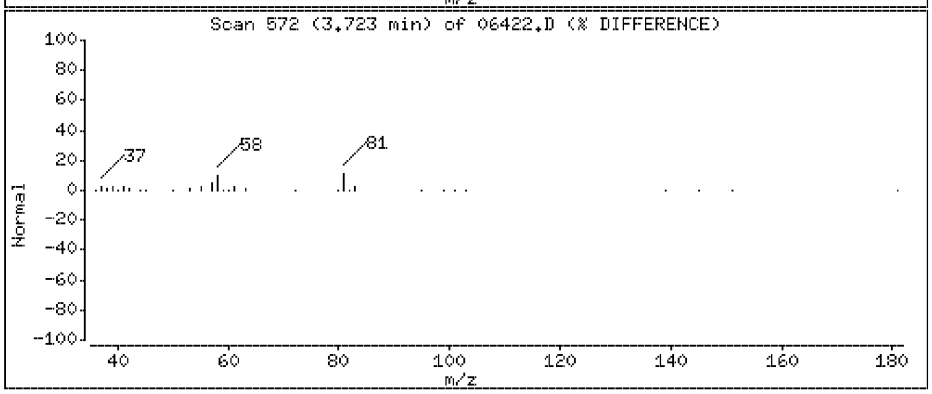












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

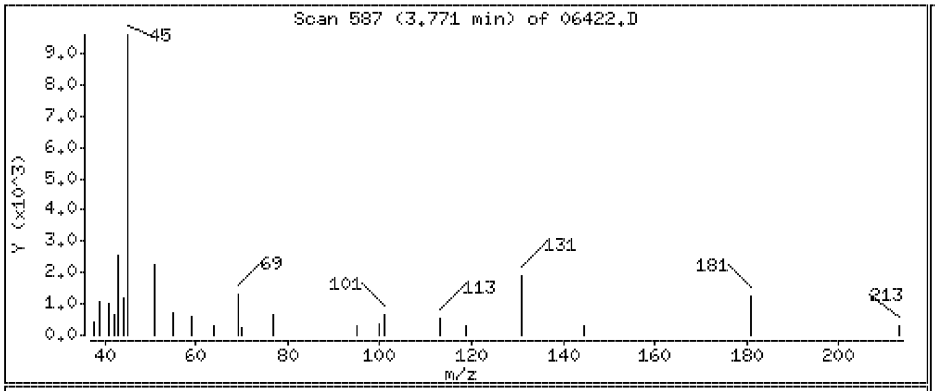
Operator: NCK

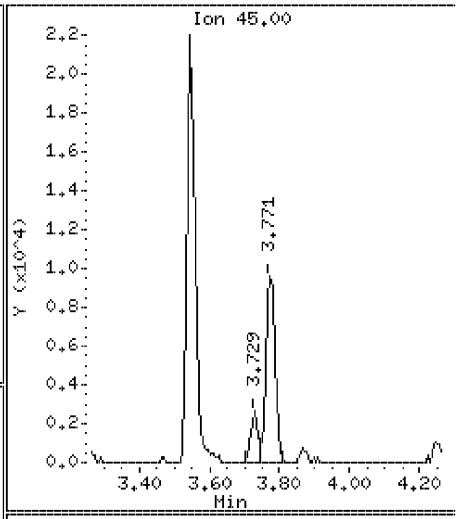
Column phase: J&W DB-5

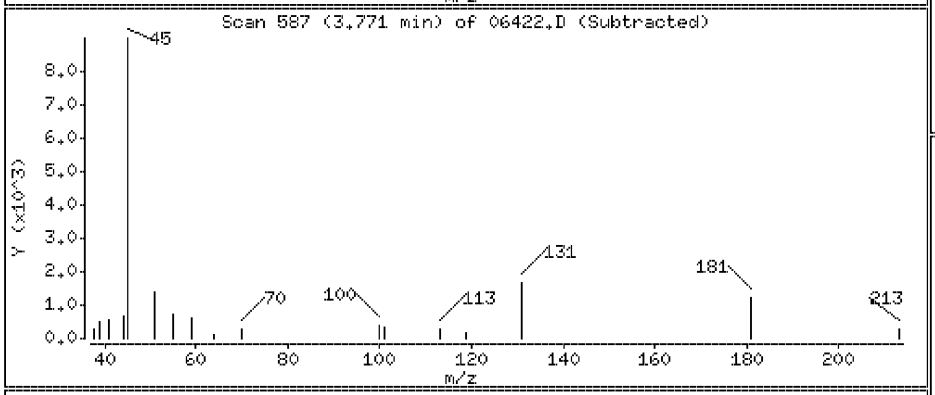
Column diameter: 0.32

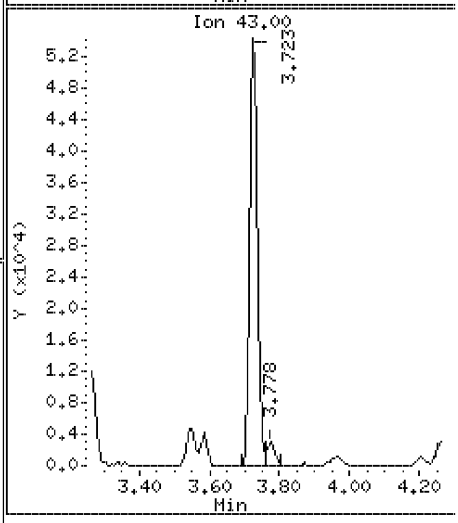
19 Isopropyl Alcohol

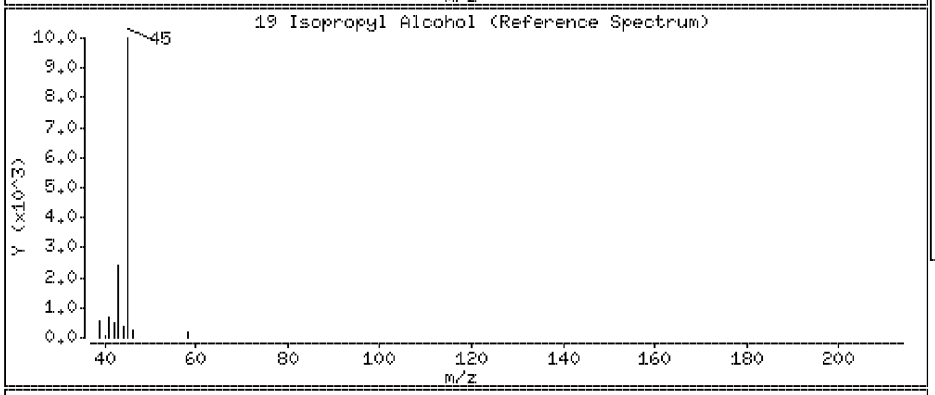
Concentration: 1.66 ppbv

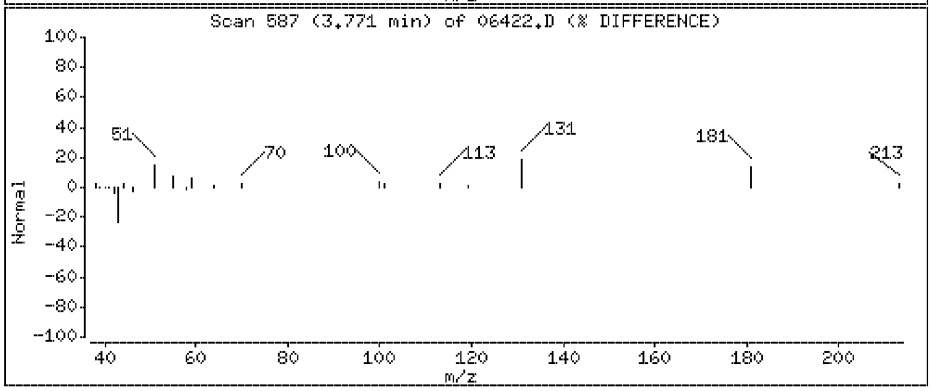












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

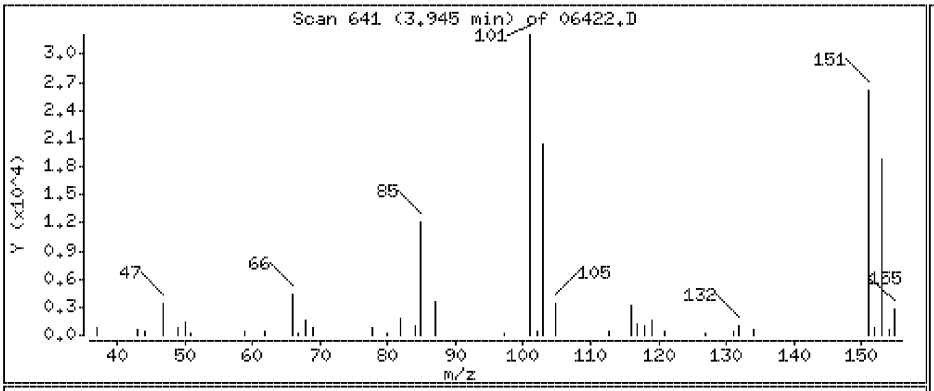
Operator: NCK

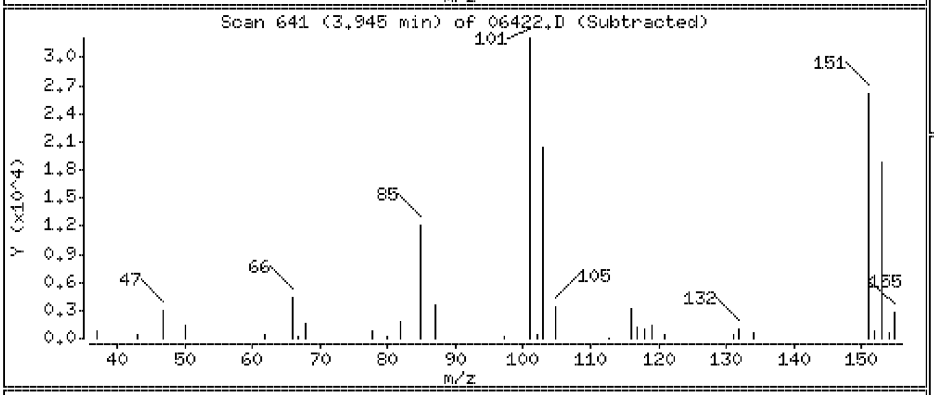
Column phase: J&W DB-5

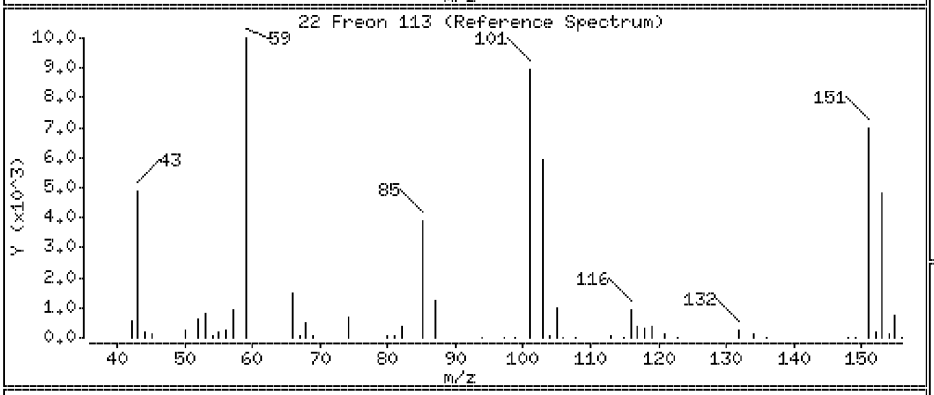
Column diameter: 0.32

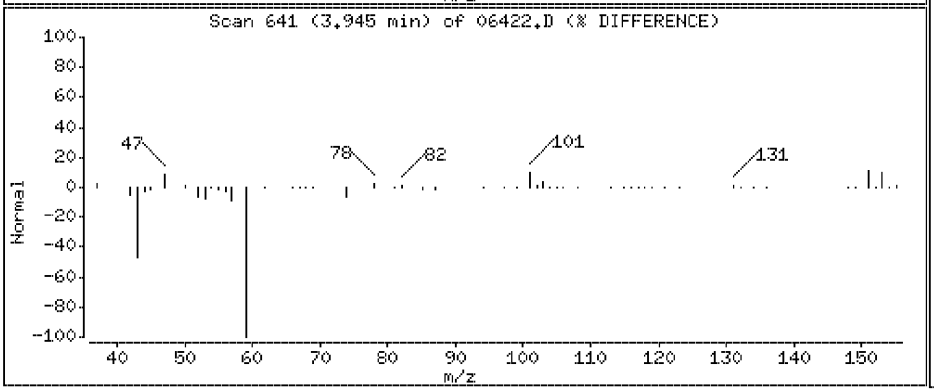
22 Freon 113

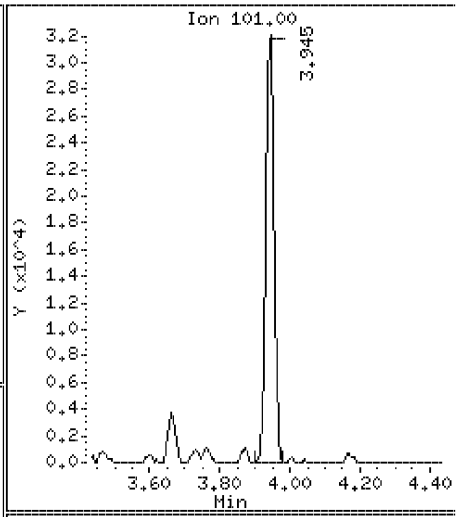
Concentration: 3.84 ppbv

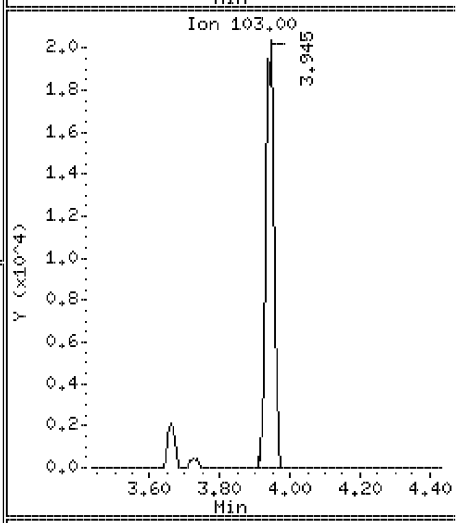


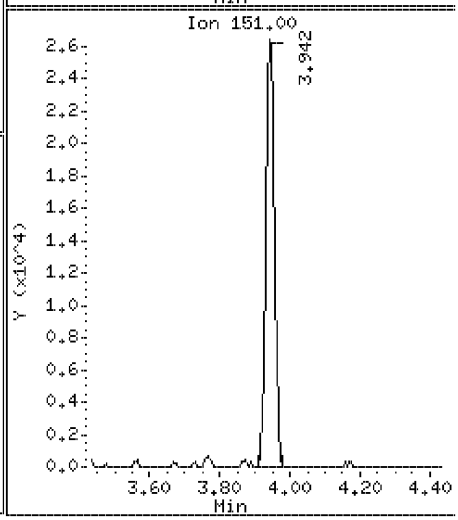












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

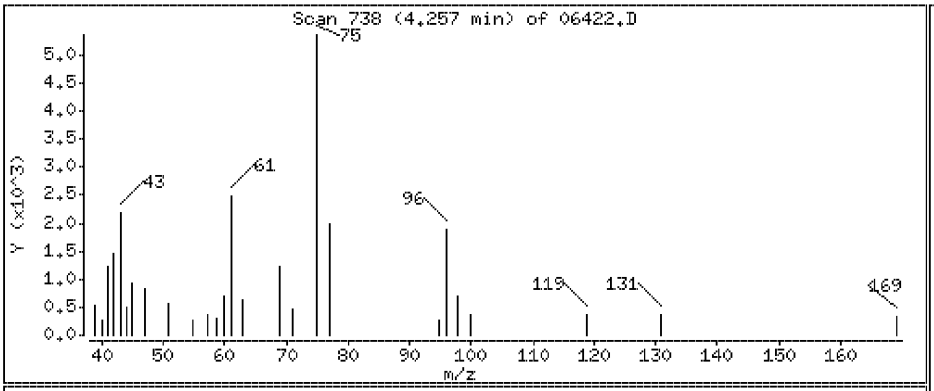
Operator: NCK

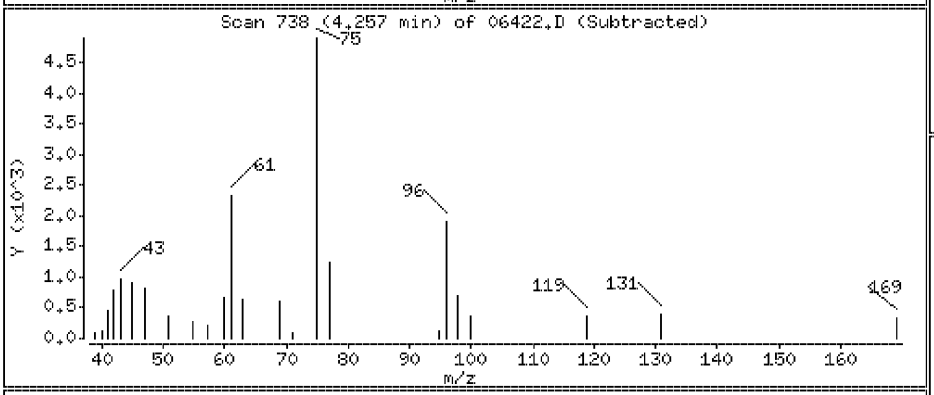
Column phase: J&W DB-5

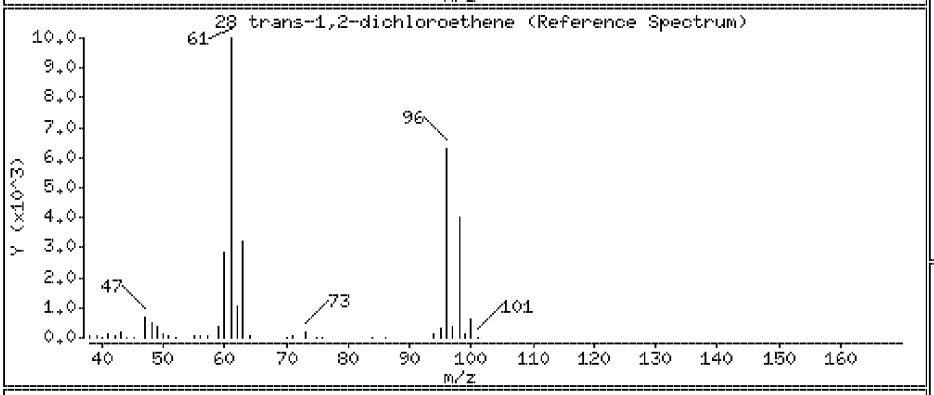
Column diameter: 0.32

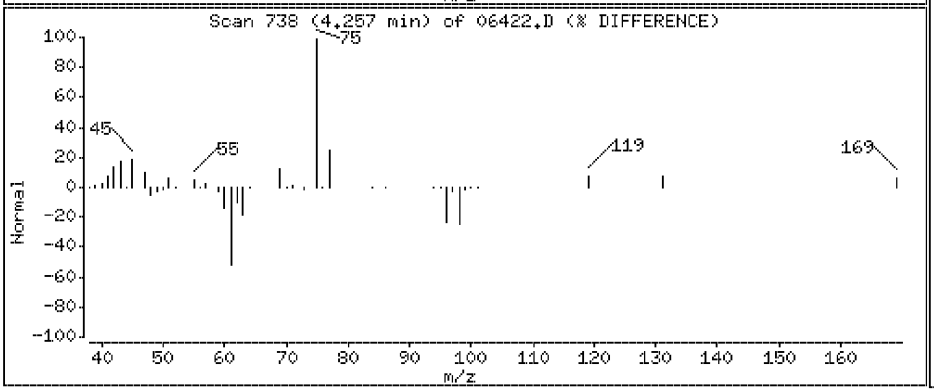
28 trans-1,2-dichloroethene

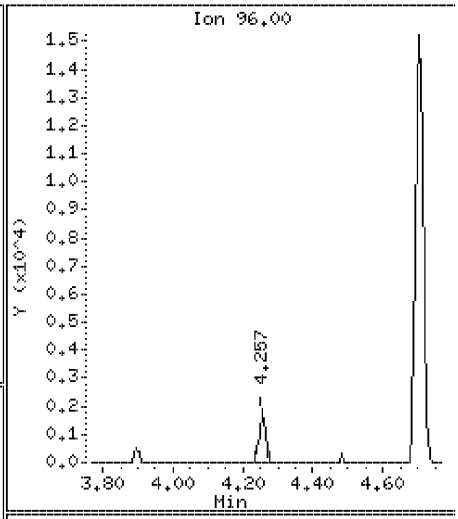
Concentration: 0.387 ppbv

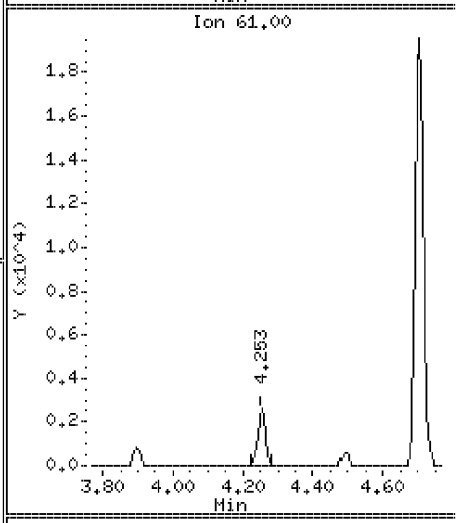


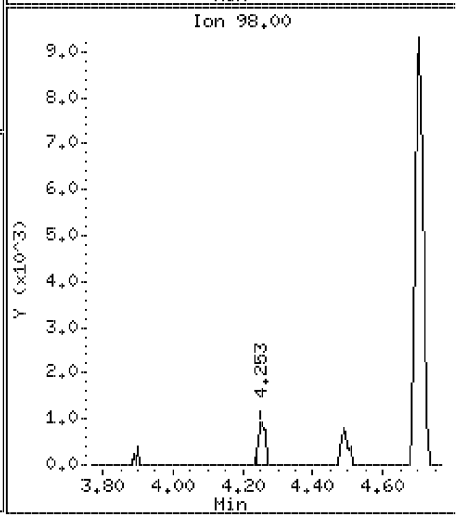












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

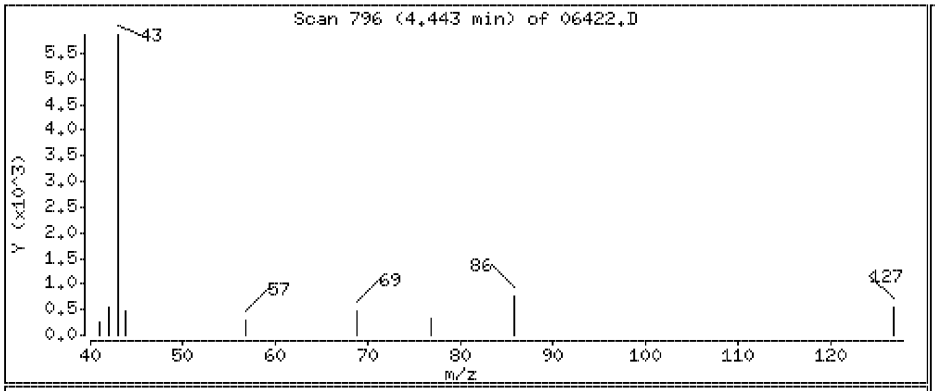
Operator: NCK

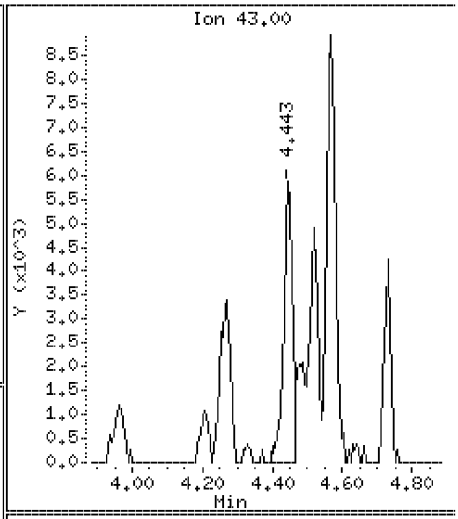
Column phase: J&W DB-5

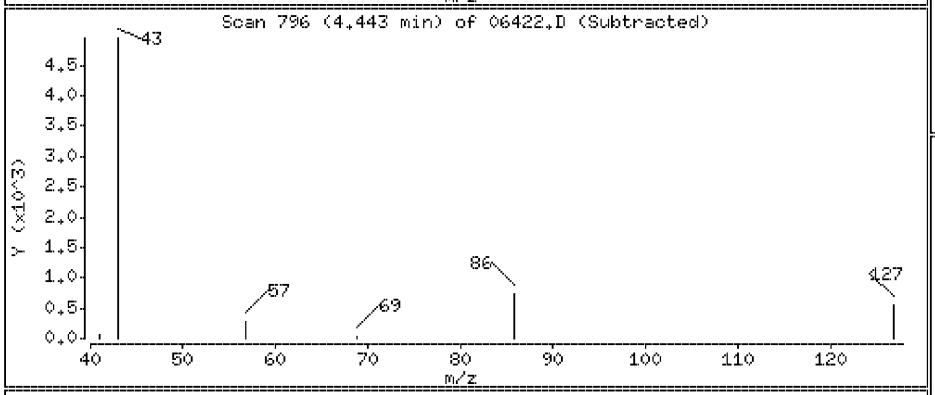
Column diameter: 0.32

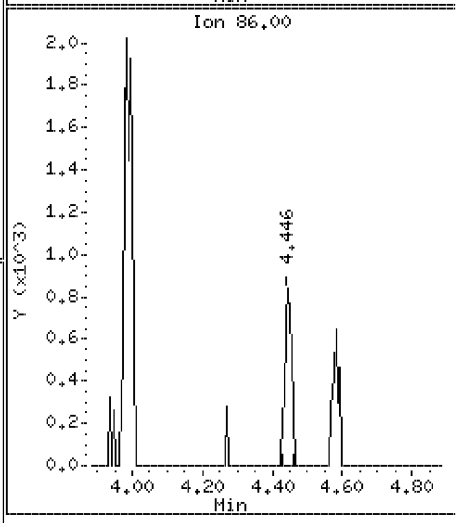
30 Vinyl Acetate

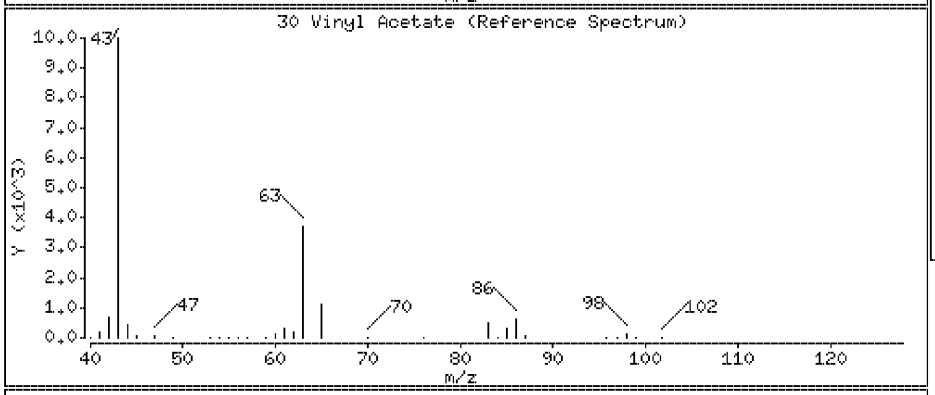
Concentration: 0.915 ppbv

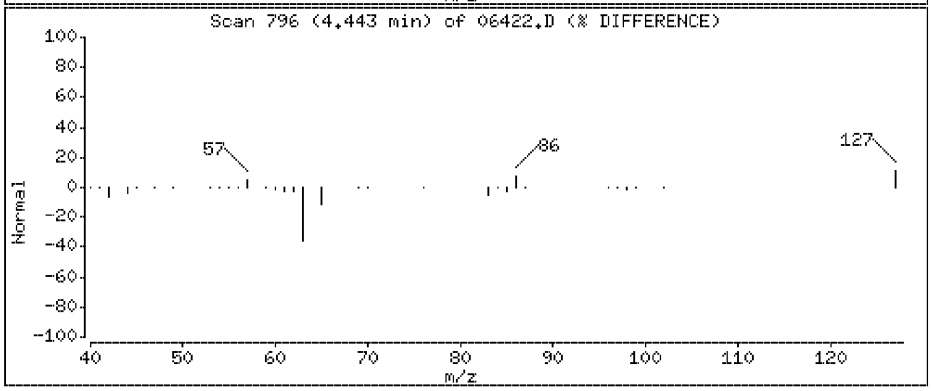












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

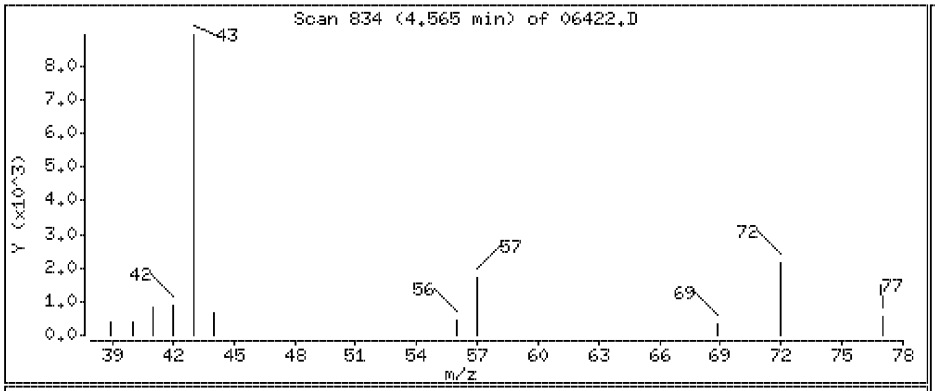
Operator: NCK

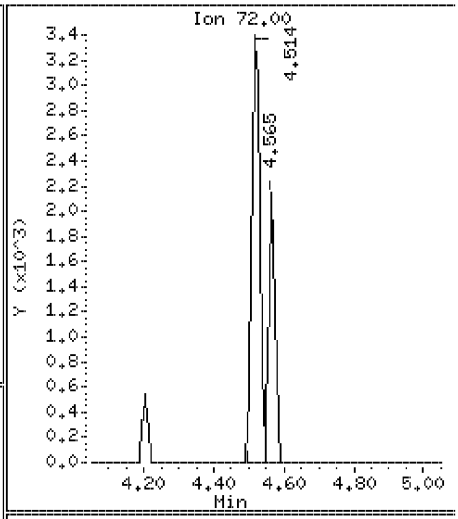
Column phase: J&W DB-5

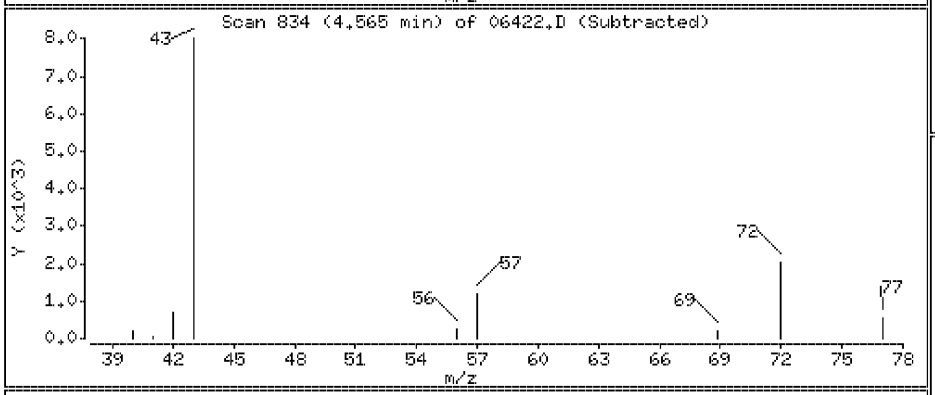
Column diameter: 0.32

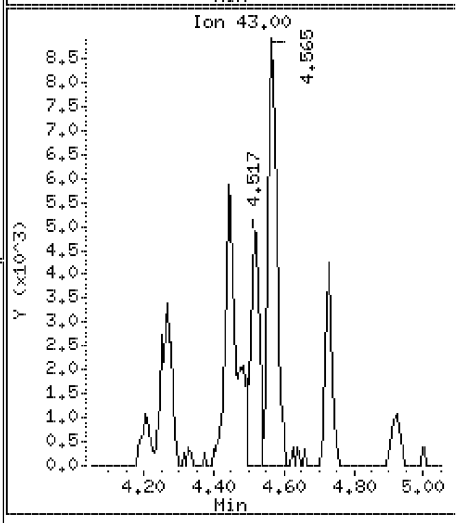
33 Methyl Ethyl Ketone

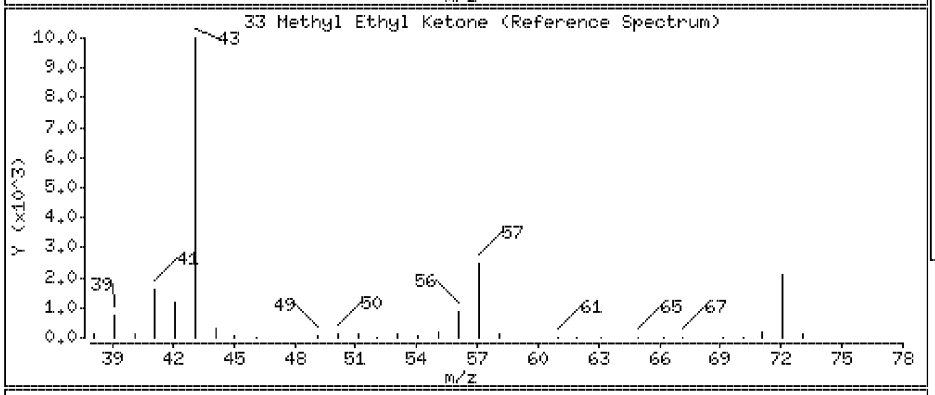
Concentration: 1.07 ppbv

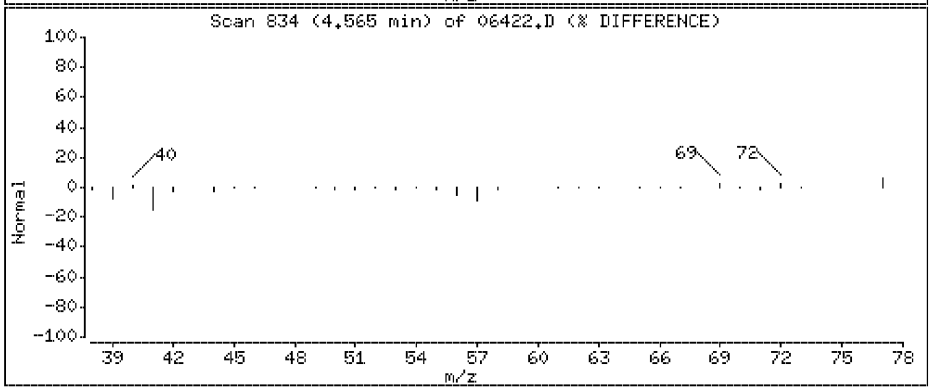












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

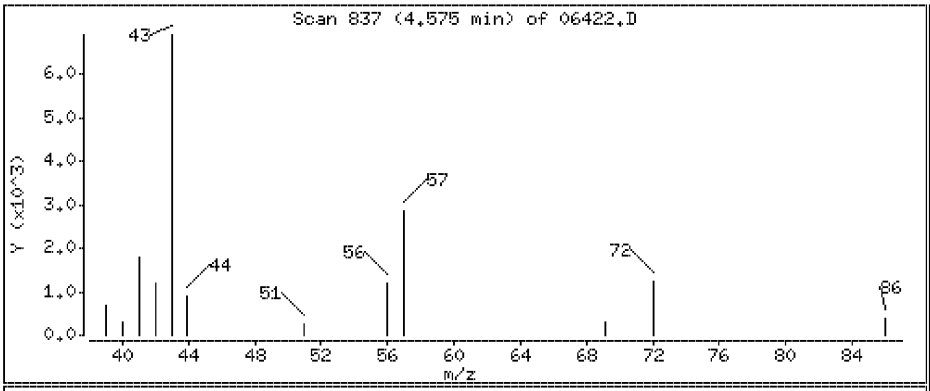
Operator: NCK

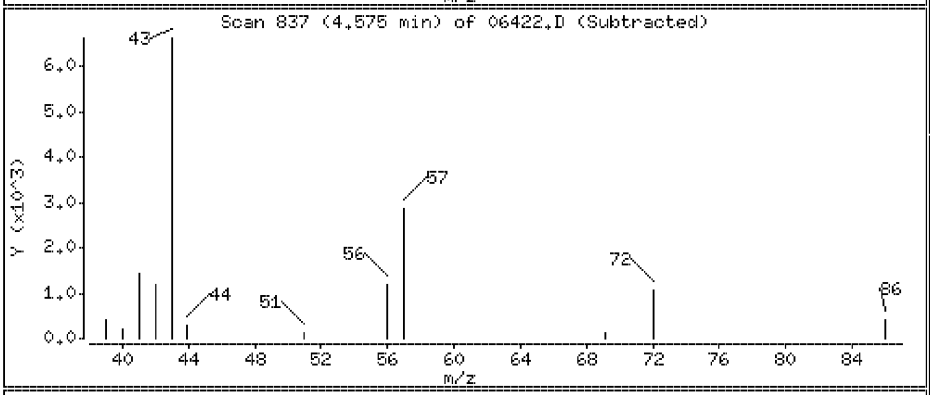
Column phase: J&W DB-5

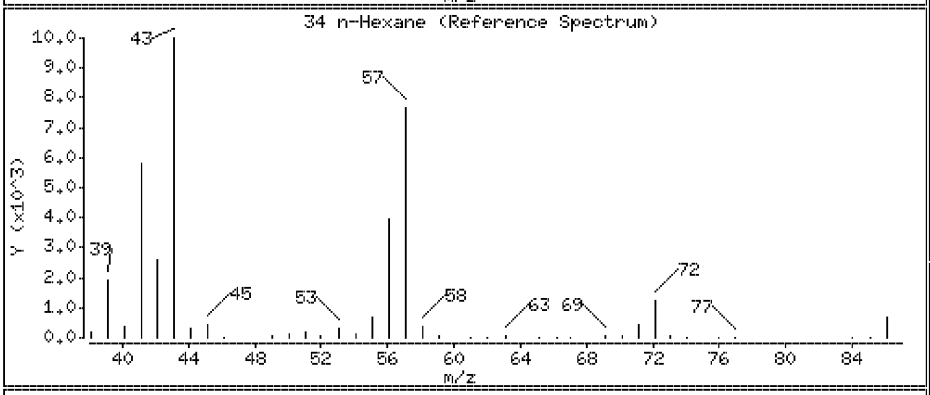
Column diameter: 0.32

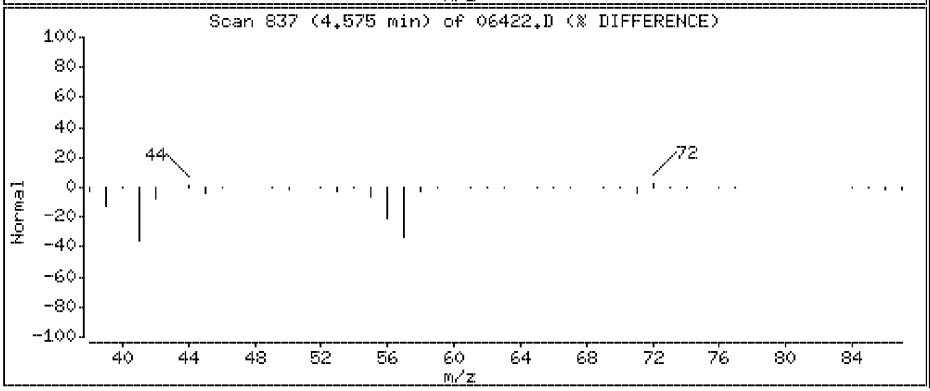
34 n-Hexane

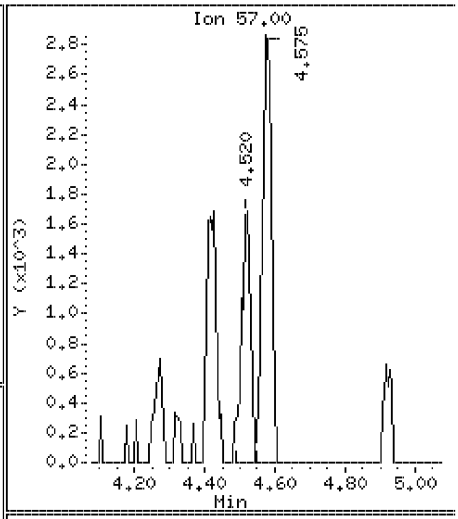
Concentration: 0.517 ppbv

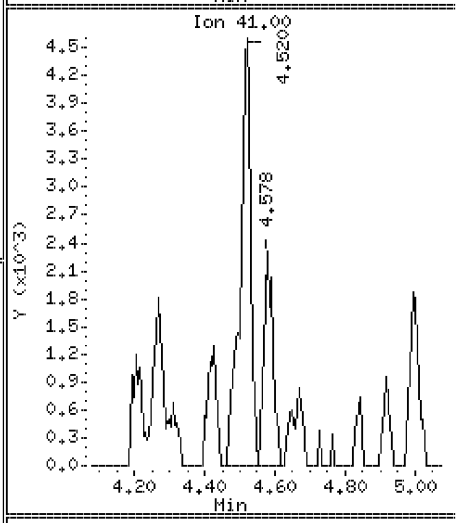


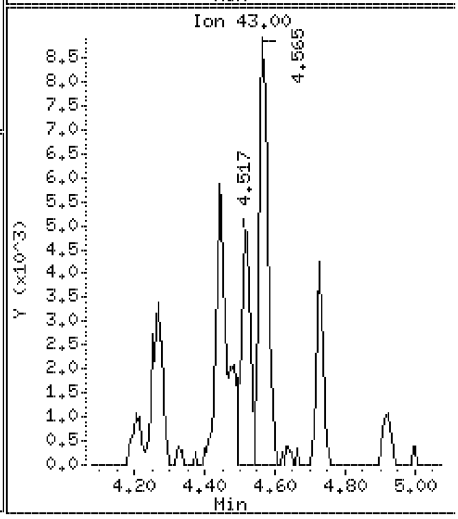












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

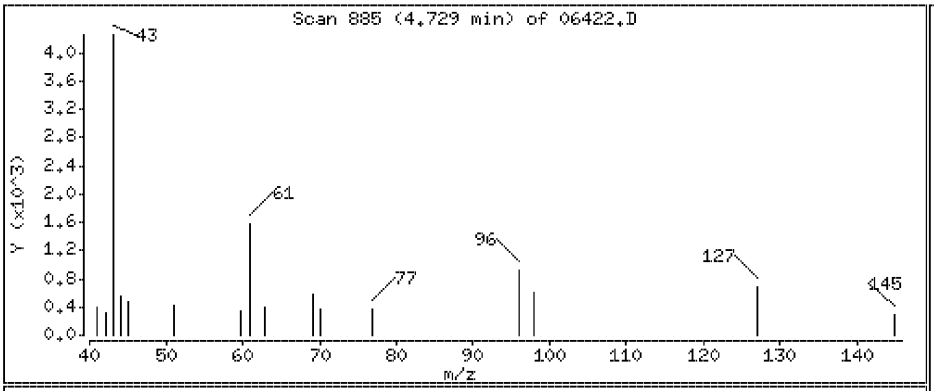
Operator: NCK

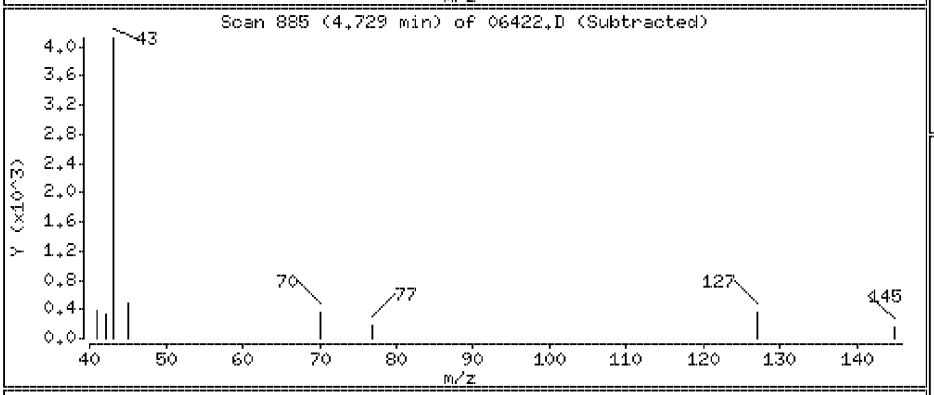
Column phase: J&W DB-5

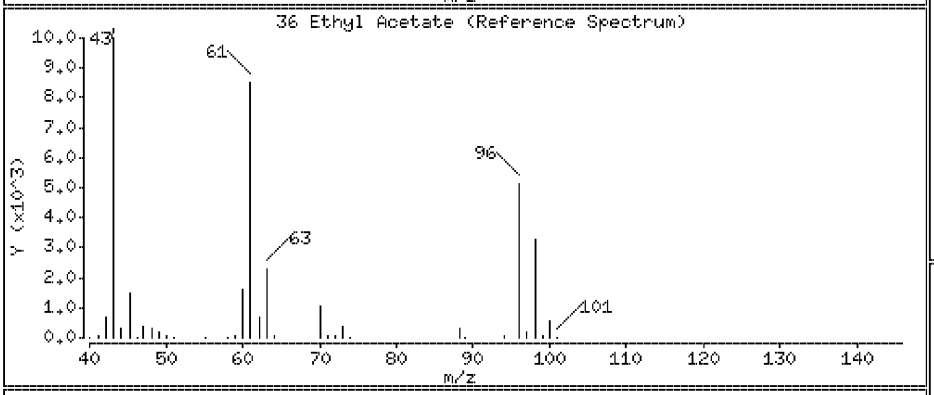
Column diameter: 0.32

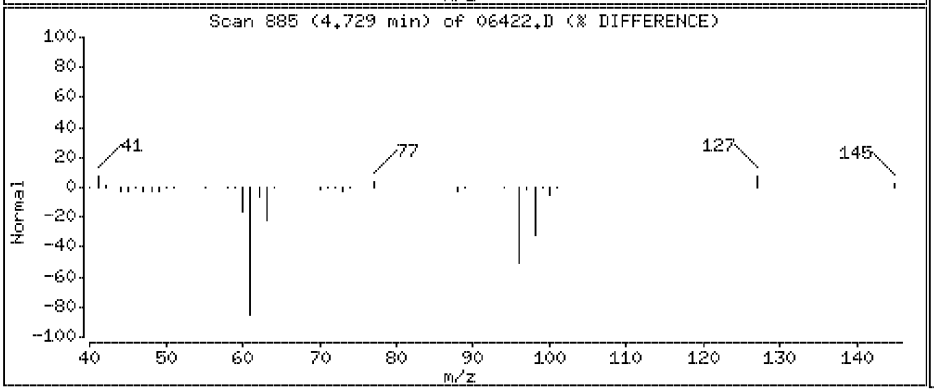
36 Ethyl Acetate

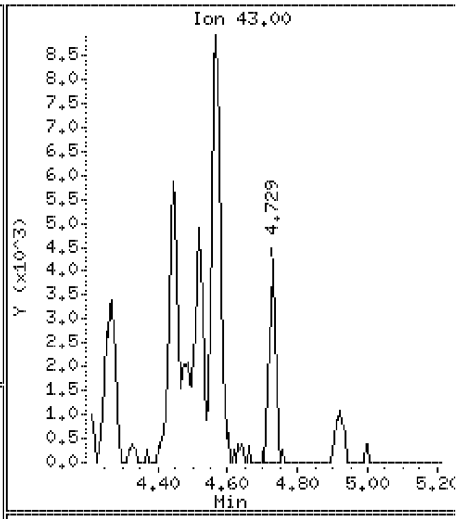
Concentration: 0.391 ppbv

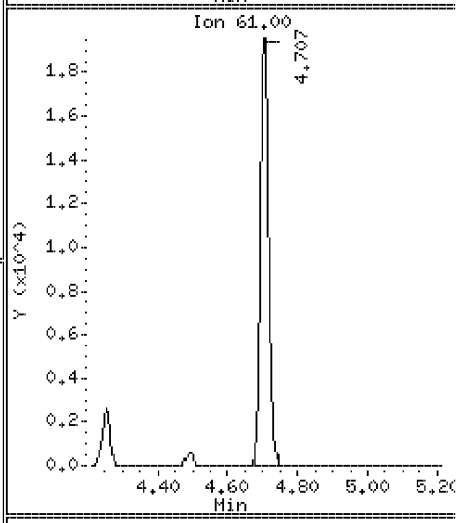


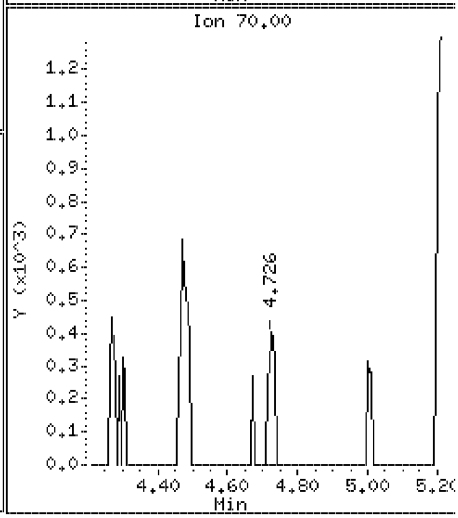












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

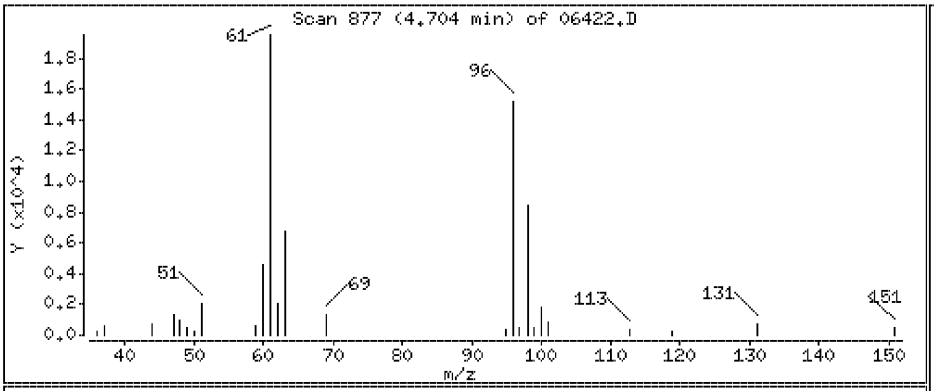
Operator: NCK

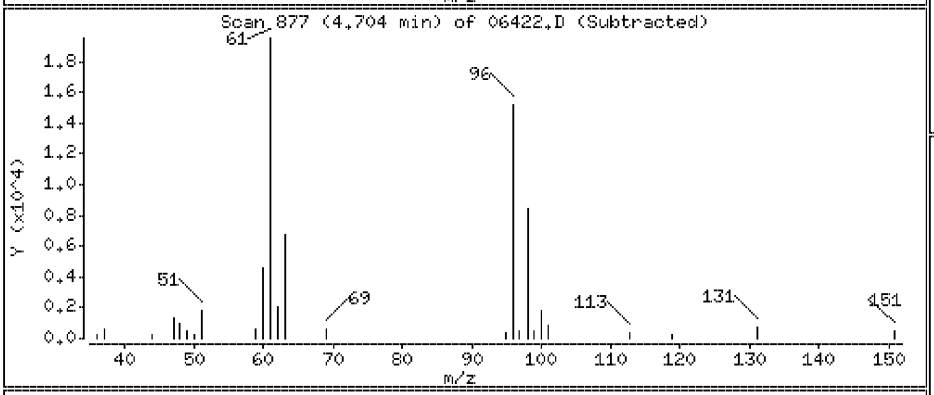
Column phase: J&W DB-5

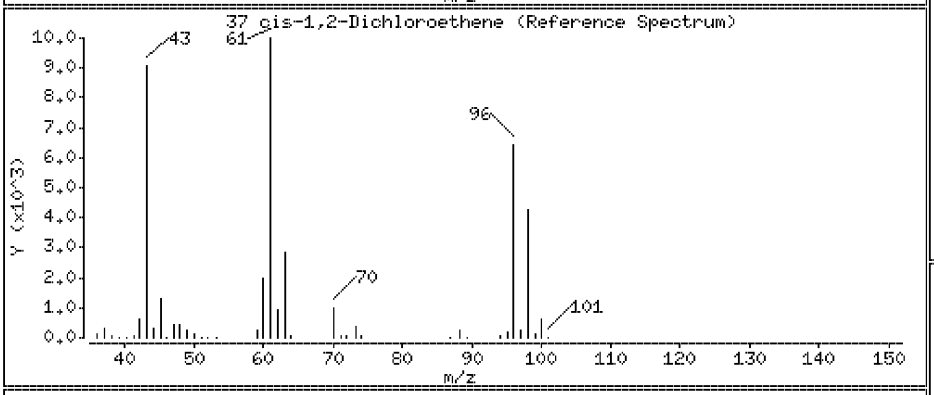
Column diameter: 0.32

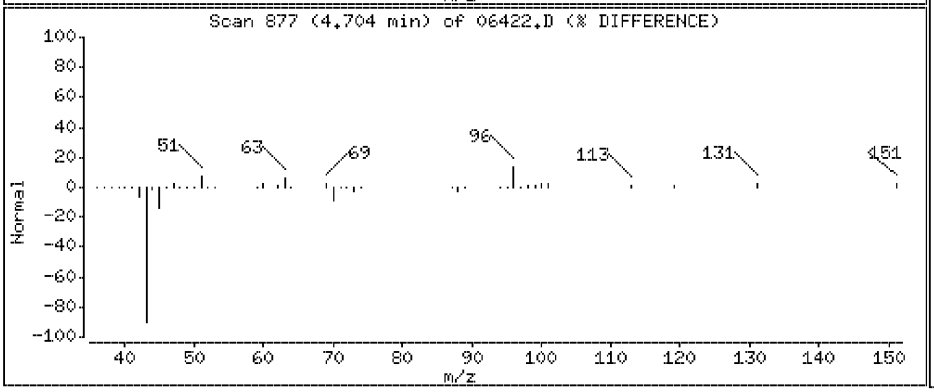
37 cis-1,2-Dichloroethene

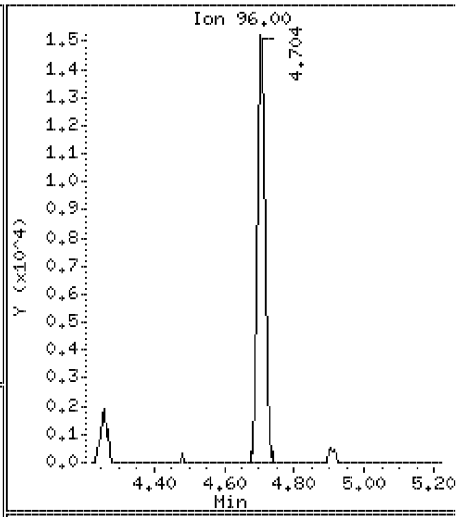
Concentration: 3.56 ppbv

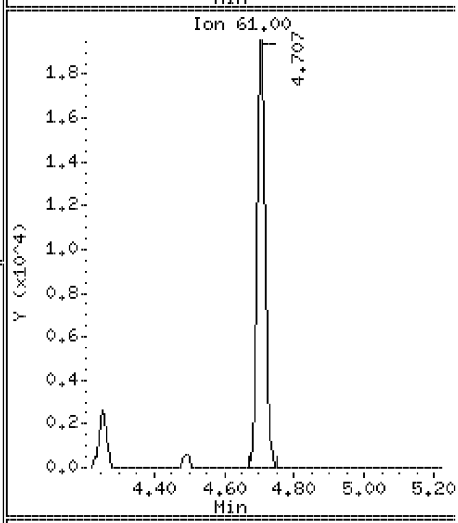


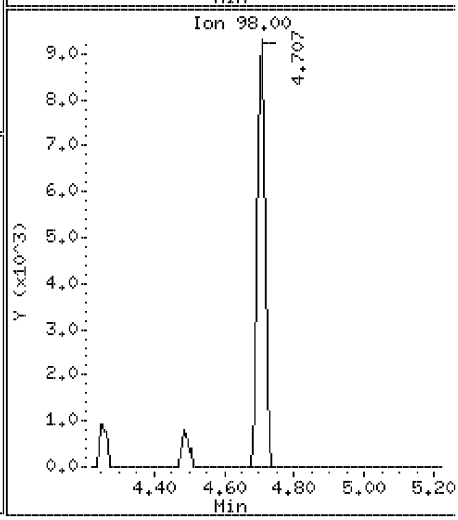












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

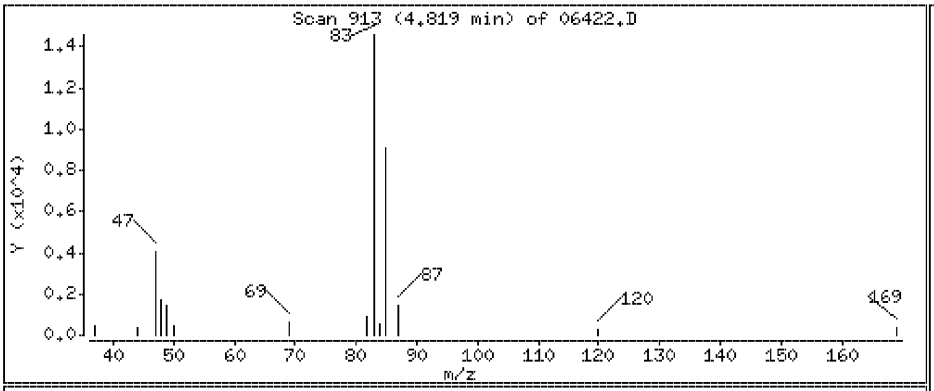
Operator: NCK

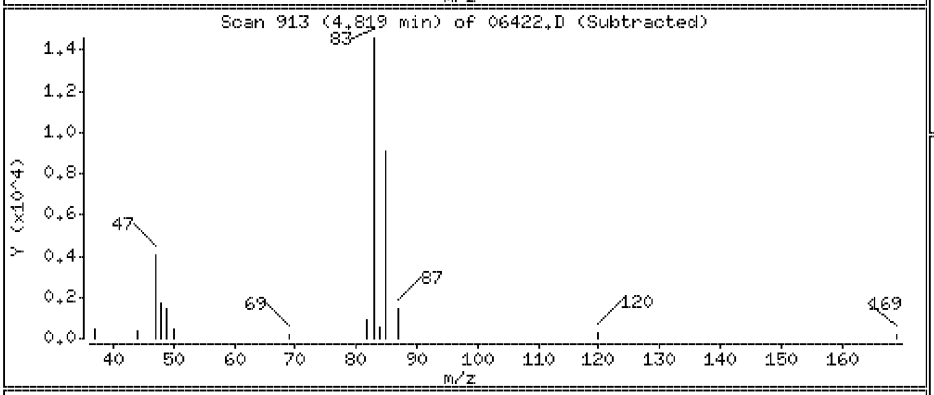
Column phase: J&W DB-5

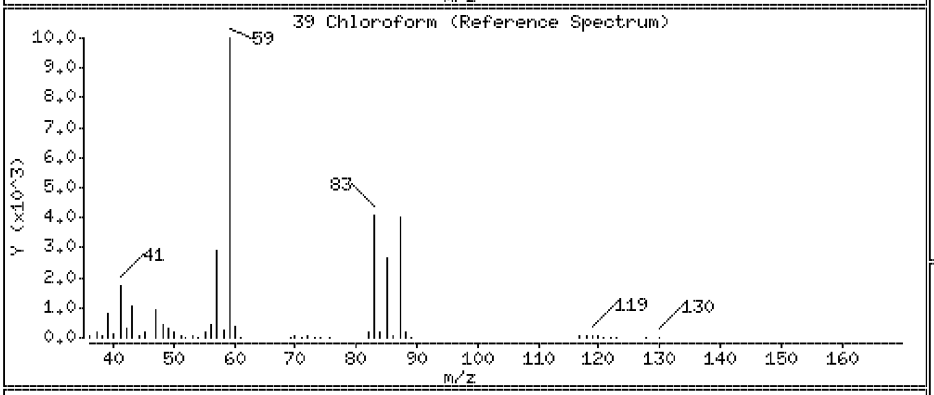
Column diameter: 0.32

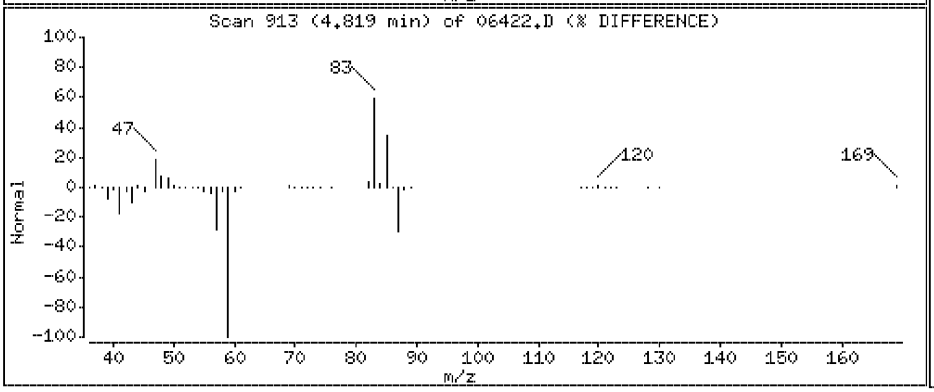
39 Chloroform

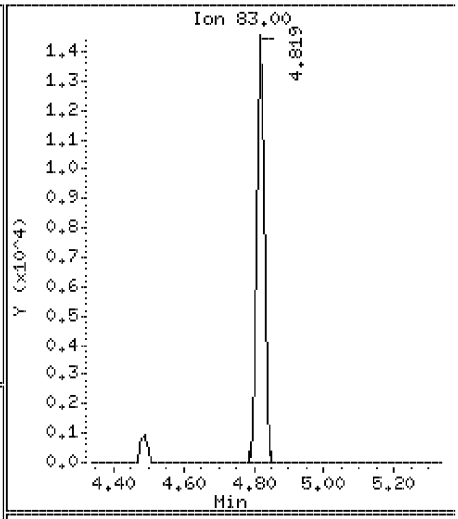
Concentration: 1.61 ppbv

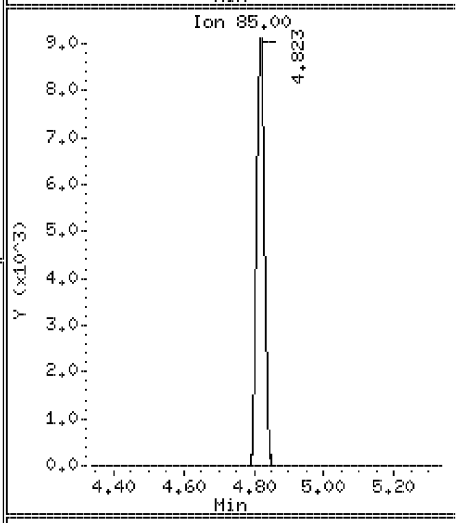


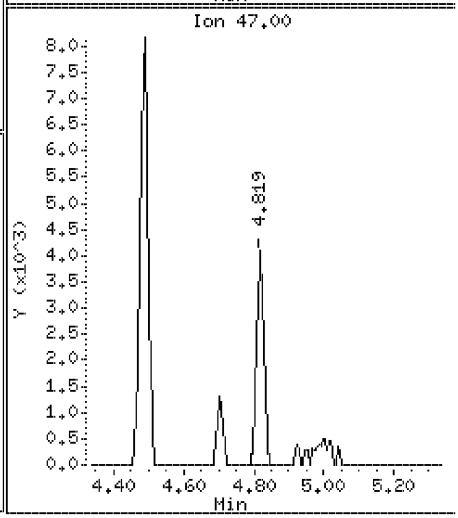












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

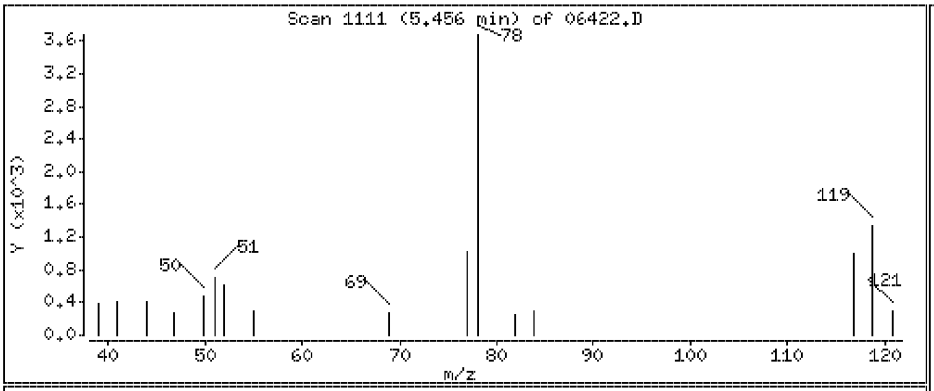
Operator: NCK

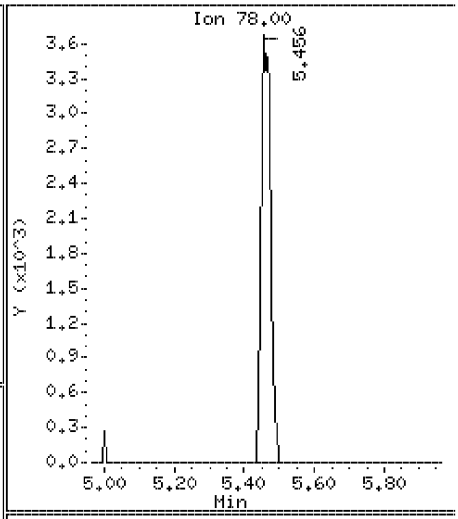
Column phase: J&W DB-5

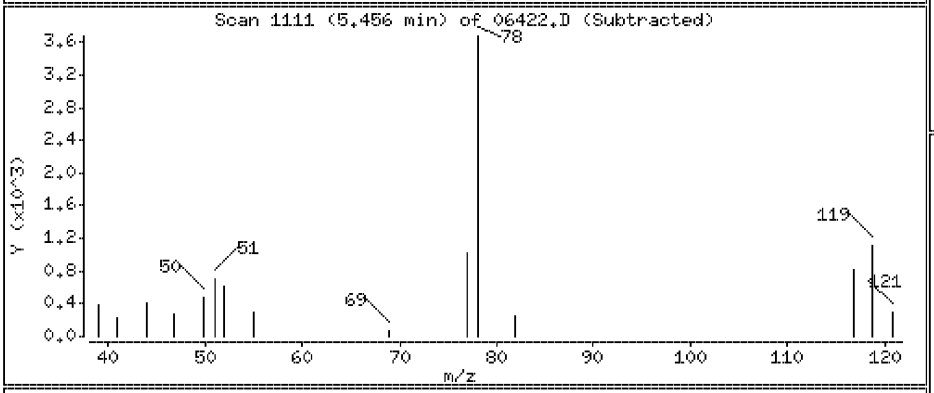
Column diameter: 0.32

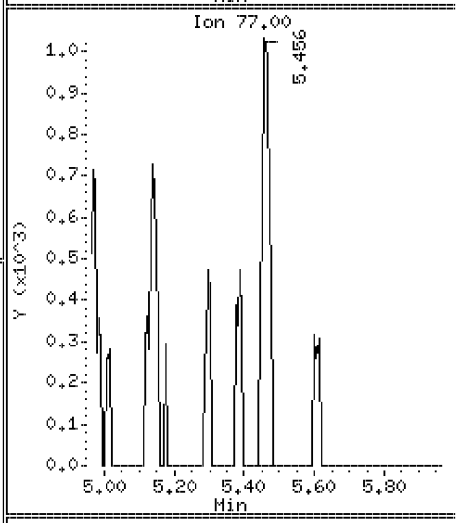
43 Benzene

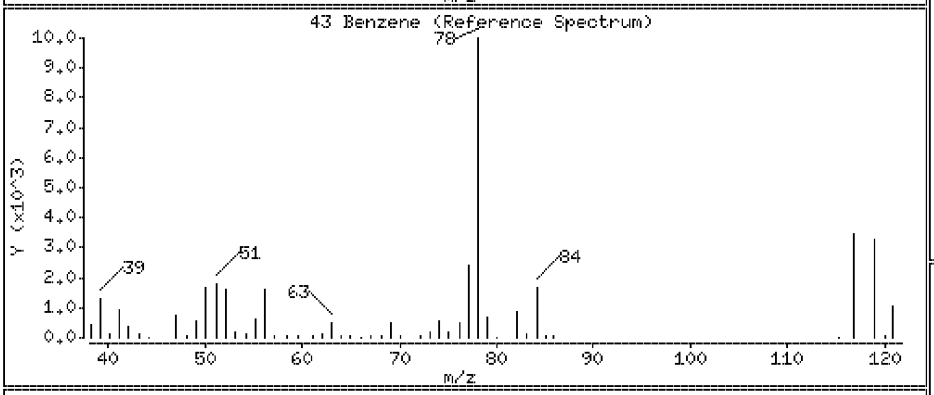
Concentration: 0.326 ppbv

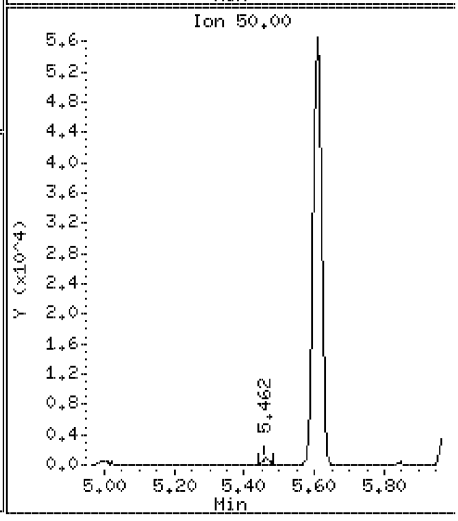


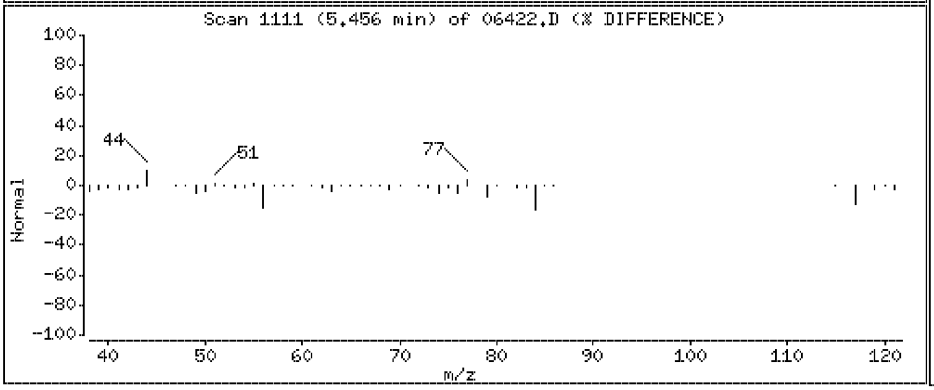












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

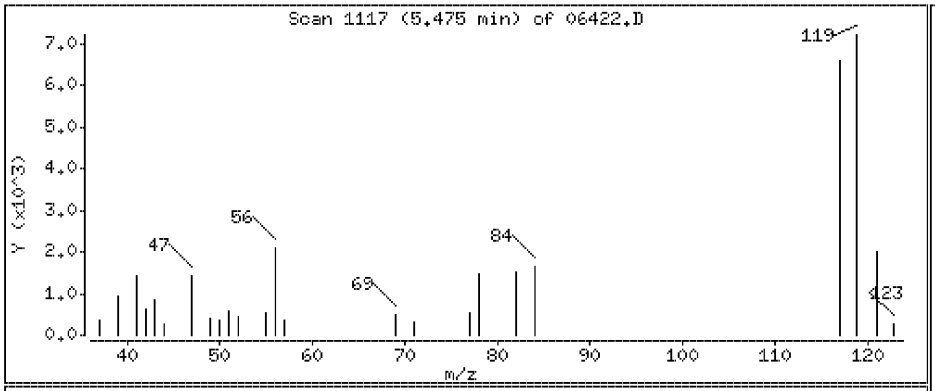
Operator: NCK

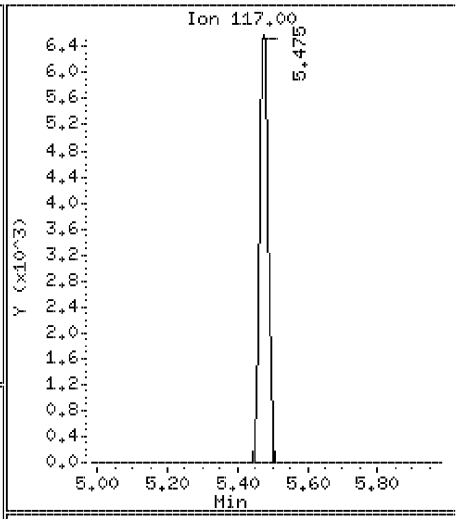
Column phase: J&W DB-5

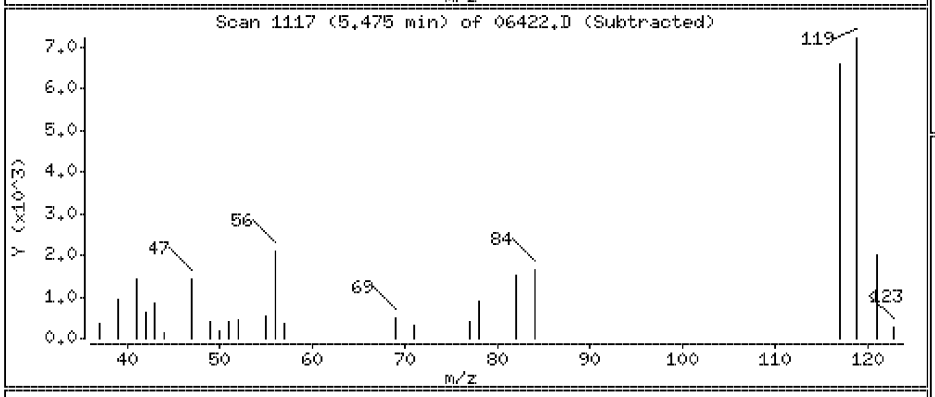
Column diameter: 0.32

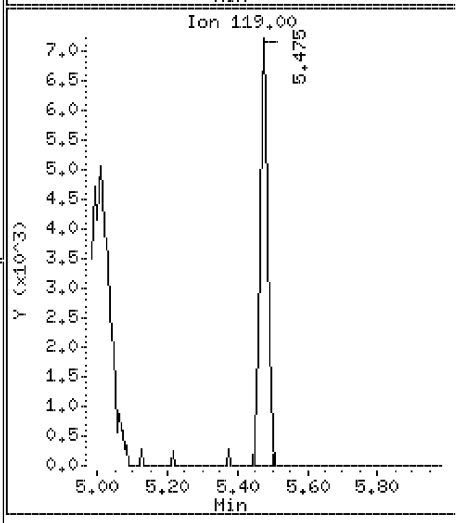
44 Carbon tetrachloride

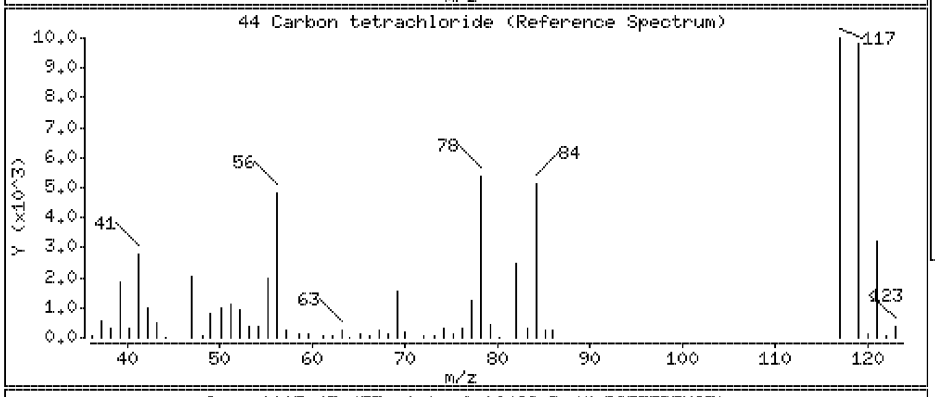
Concentration: 0.719 ppbv

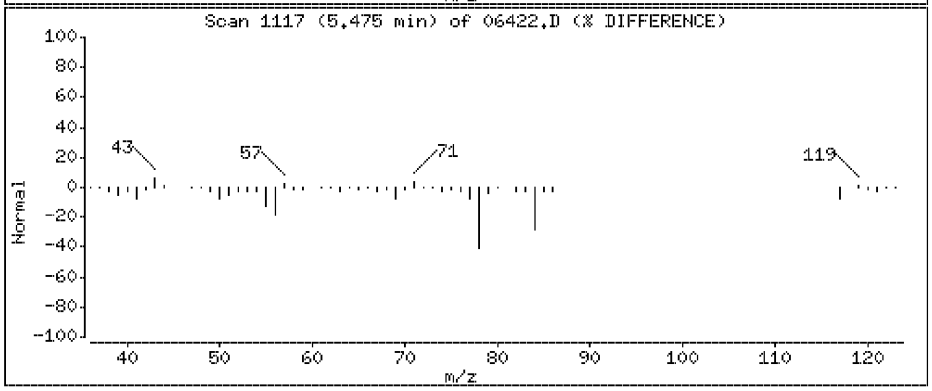












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

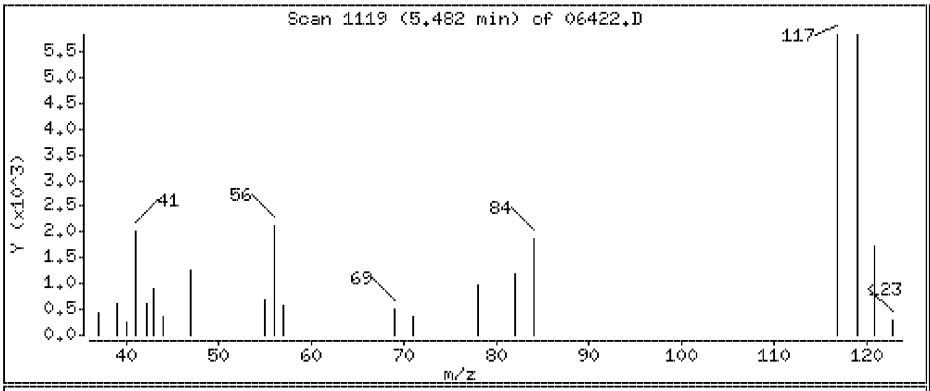
Operator: NCK

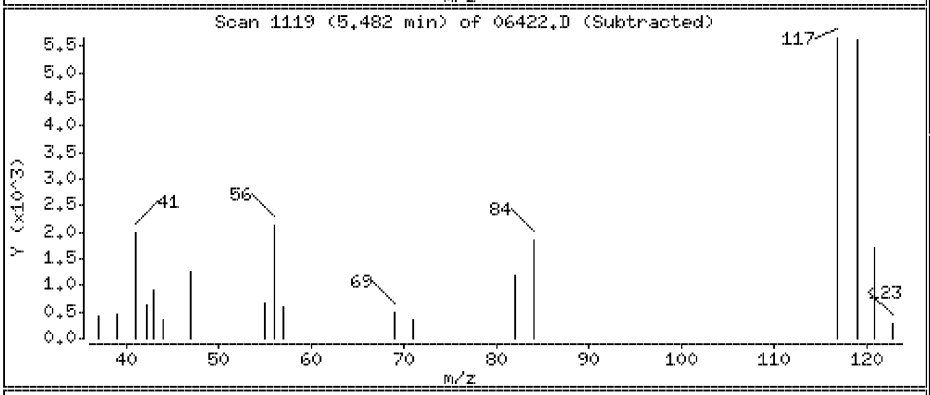
Column phase: J&W DB-5

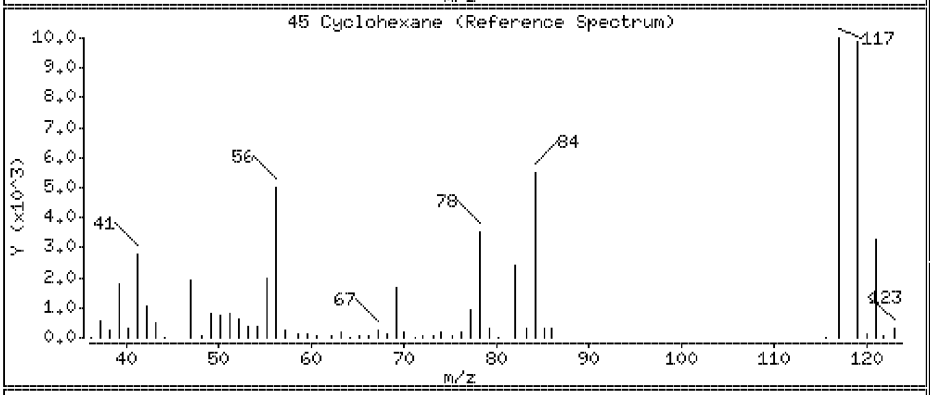
Column diameter: 0.32

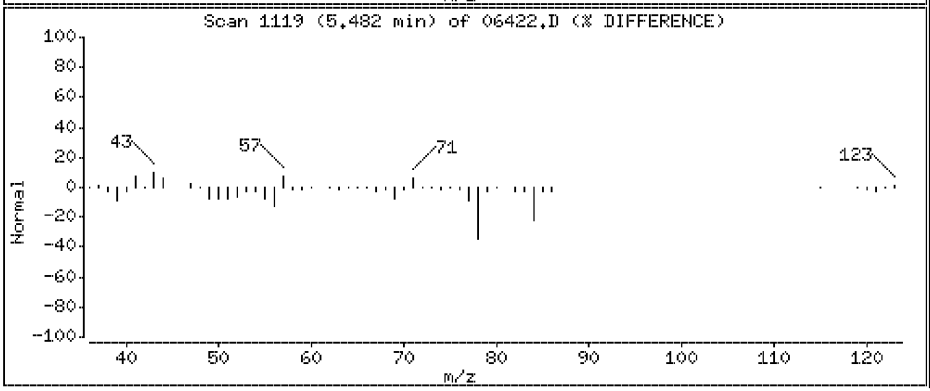
45 Cyclohexane

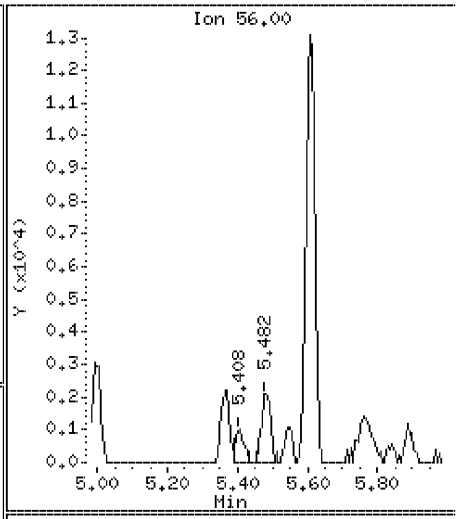
Concentration: 0.366 ppbv

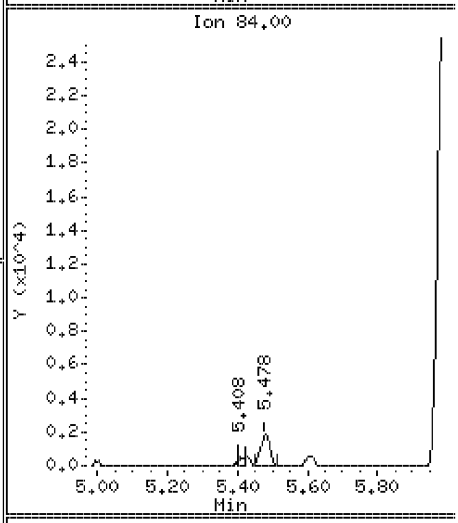


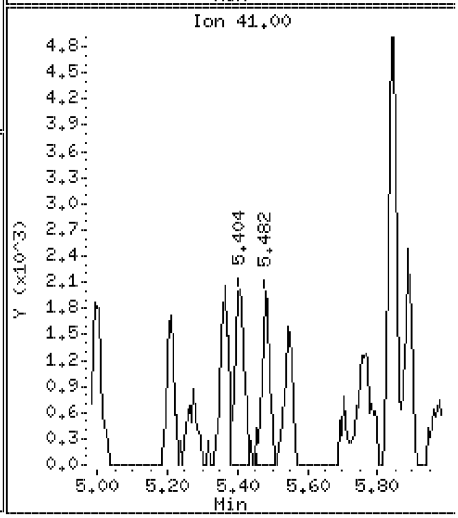












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

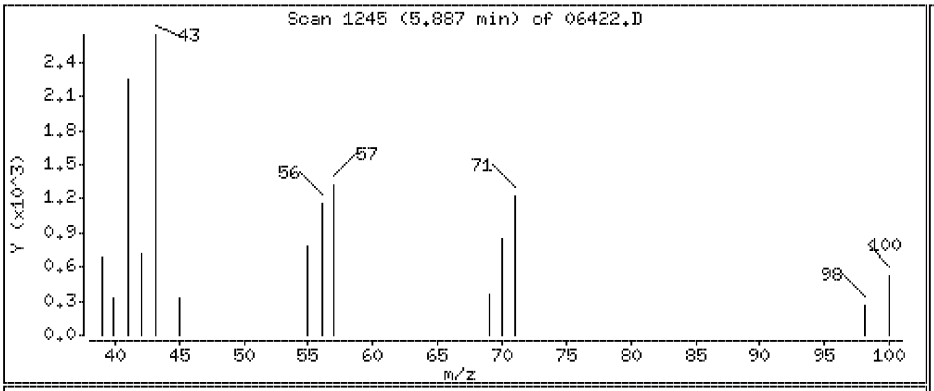
Operator: NCK

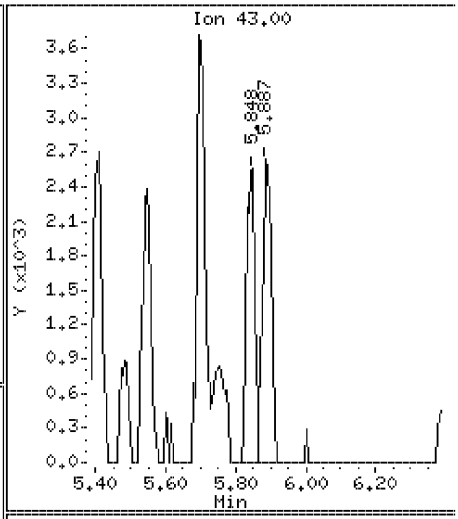
Column phase: J&W DB-5

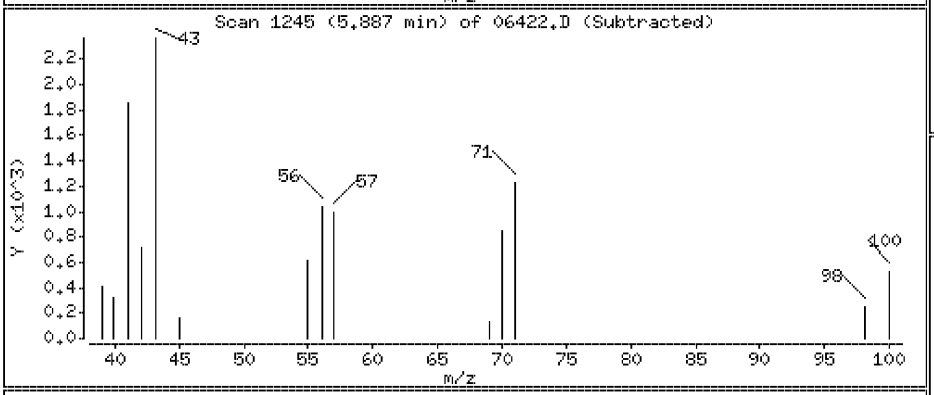
Column diameter: 0.32

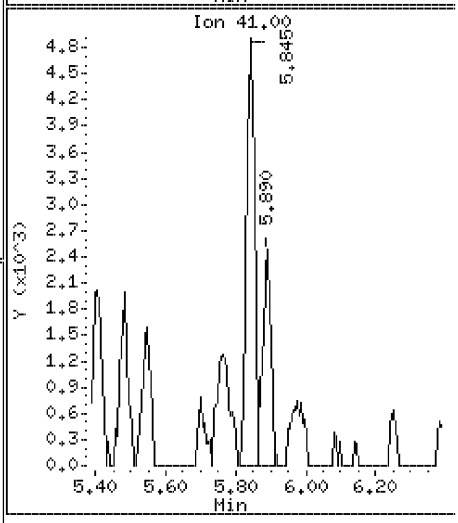
49 Heptane

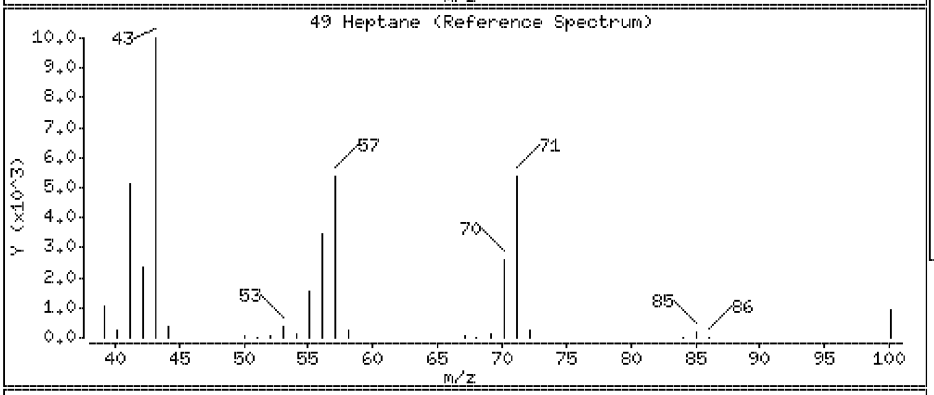
Concentration: 0.402 ppbv

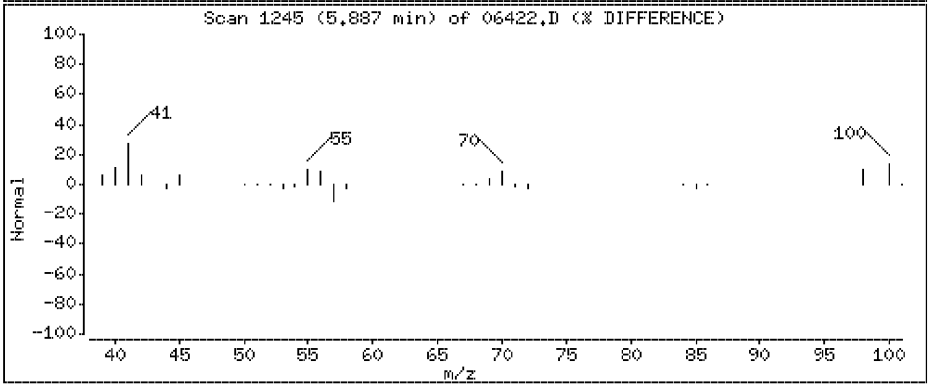












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

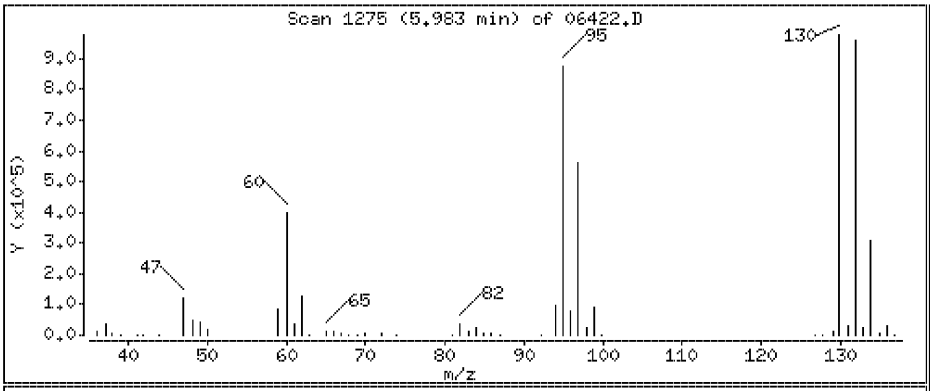
Operator: NCK

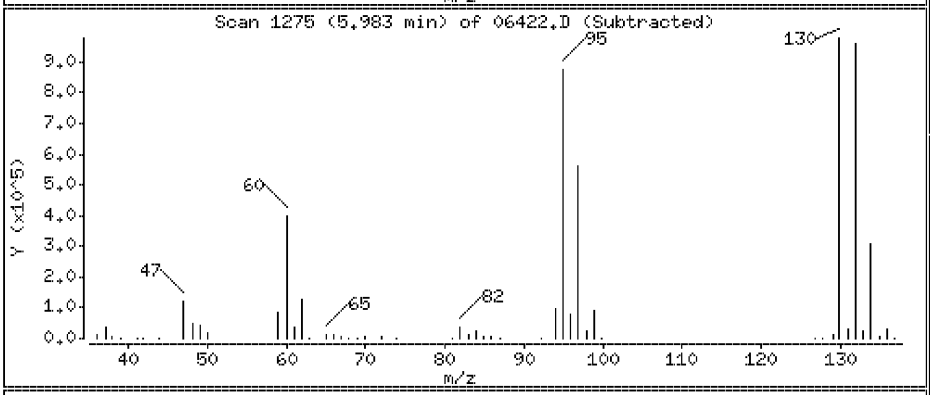
Column phase: J&W DB-5

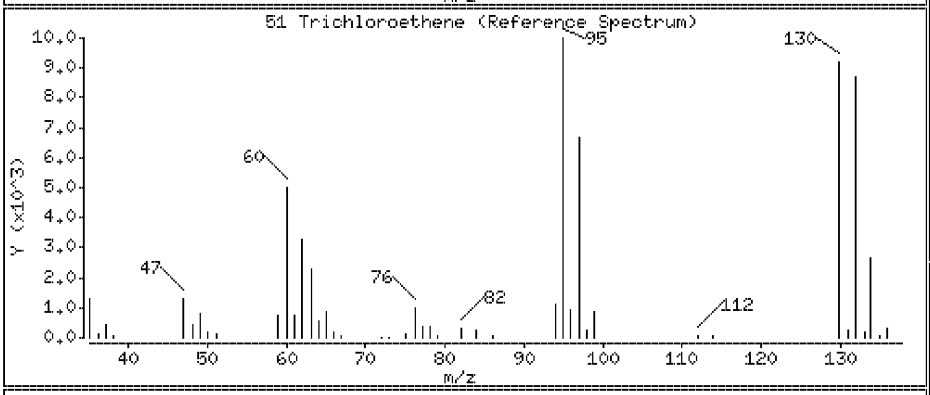
Column diameter: 0.32

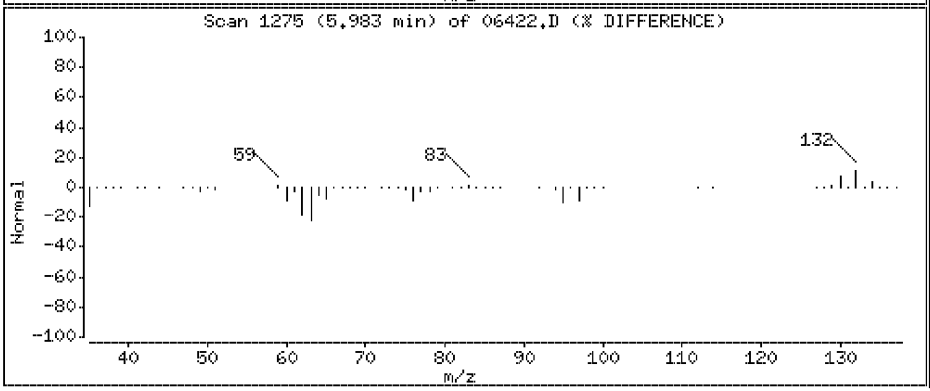
51 Trichloroethene

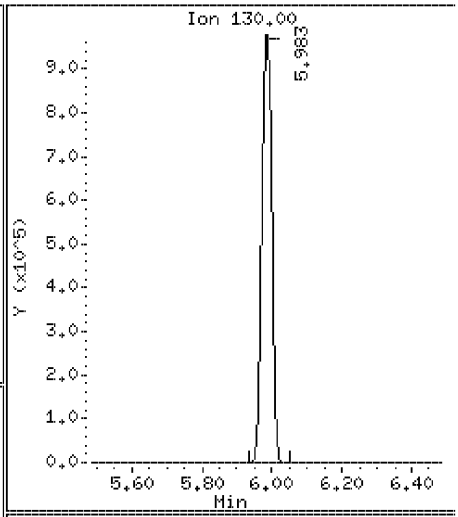
Concentration: 180 ppbv

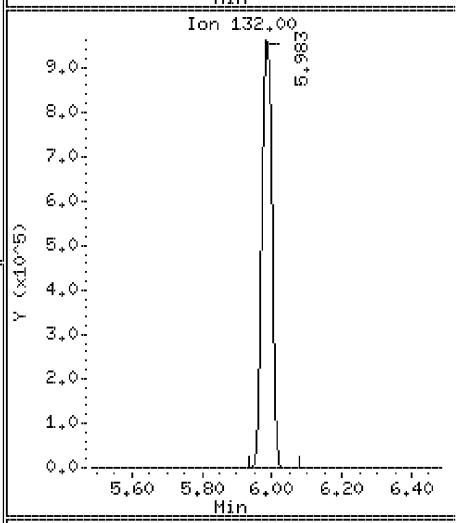


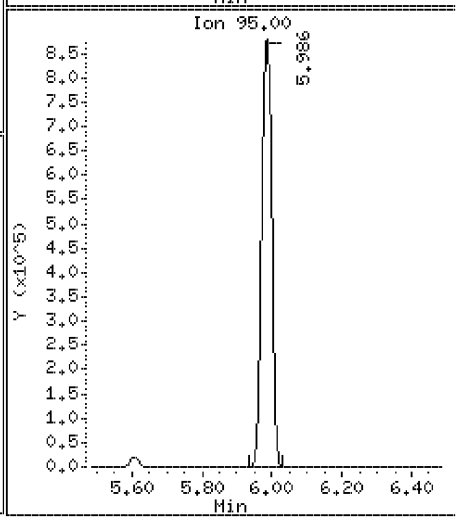












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

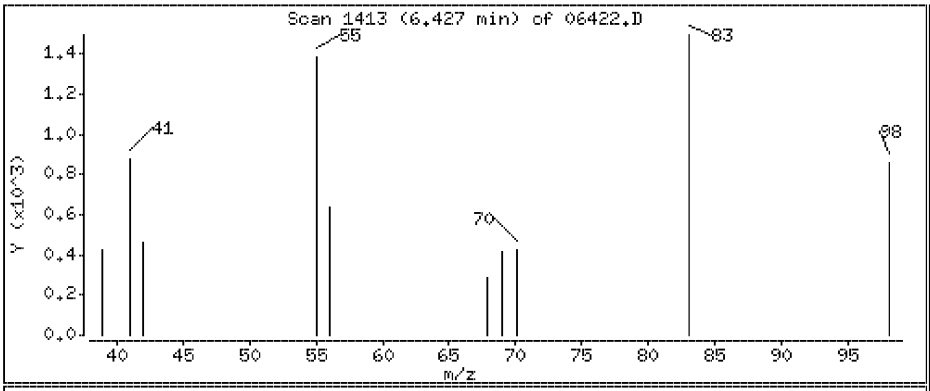
Operator: NCK

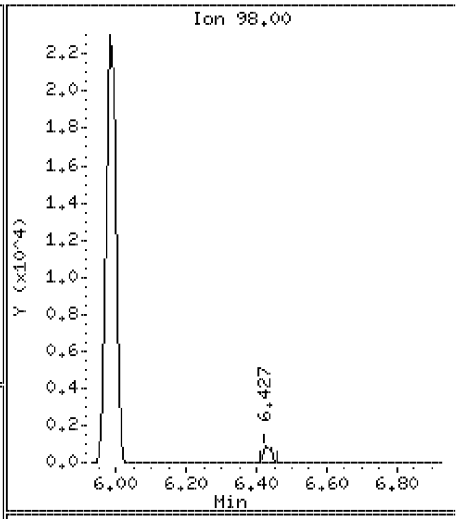
Column phase: J&W DB-5

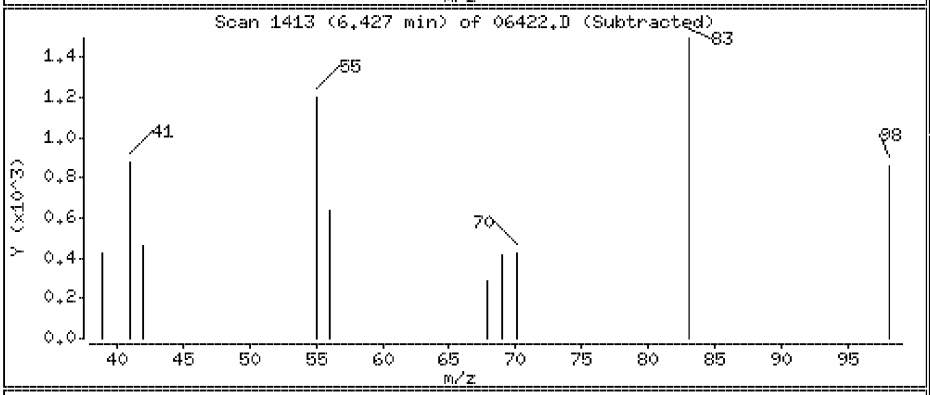
Column diameter: 0.32

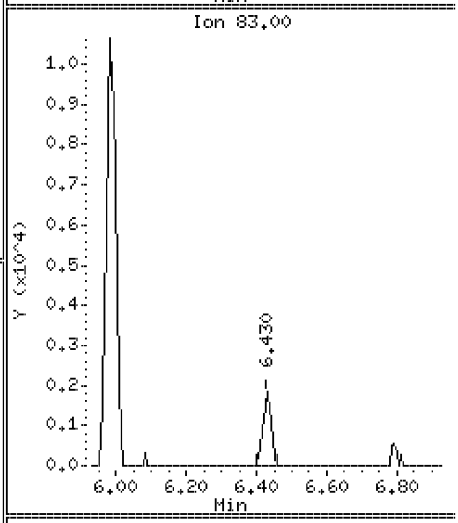
55 Methylcyclohexane

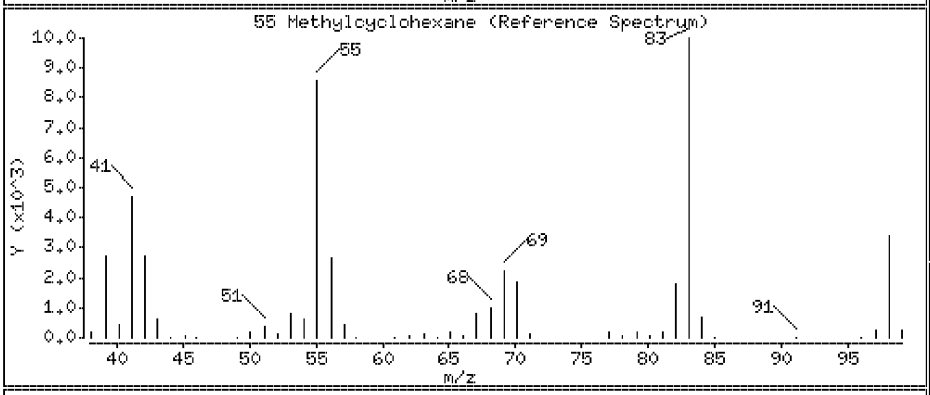
Concentration: 0.235 ppbv

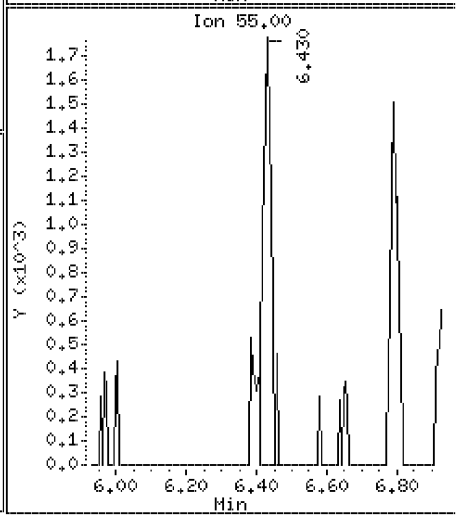


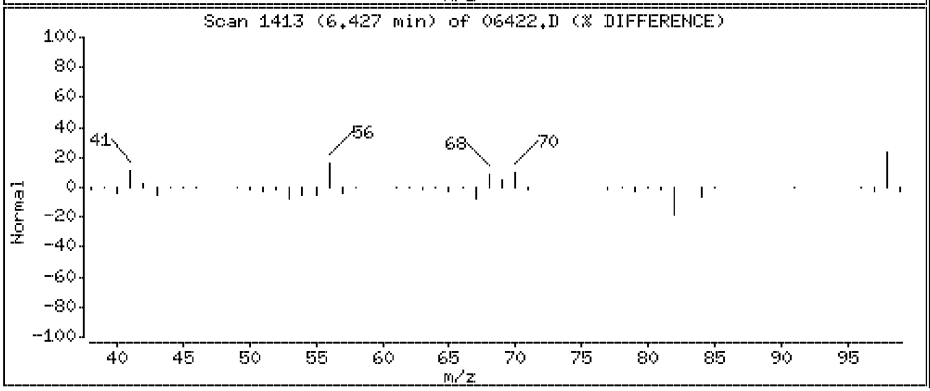












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

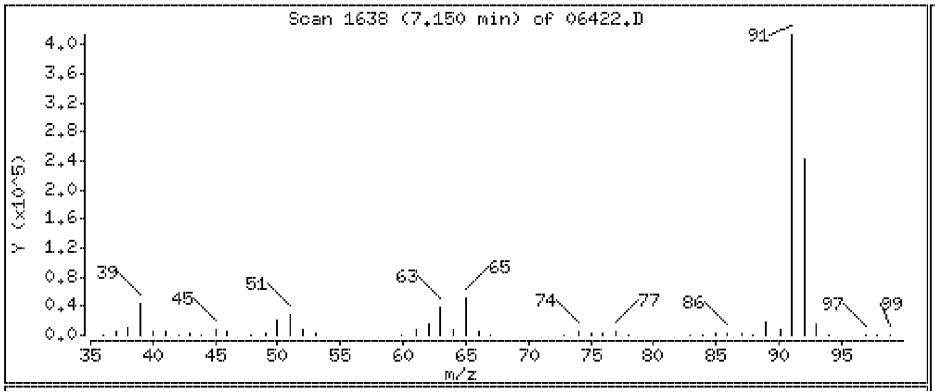
Operator: NCK

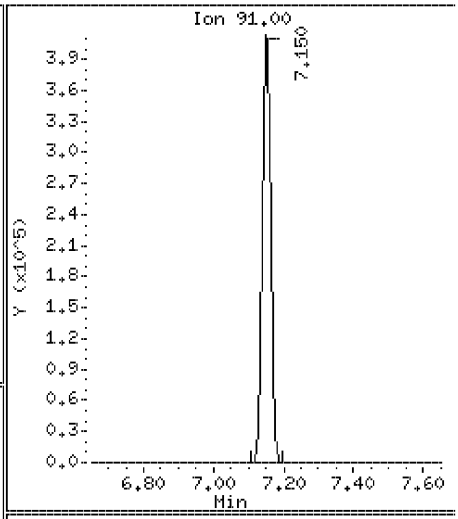
Column phase: J&W DB-5

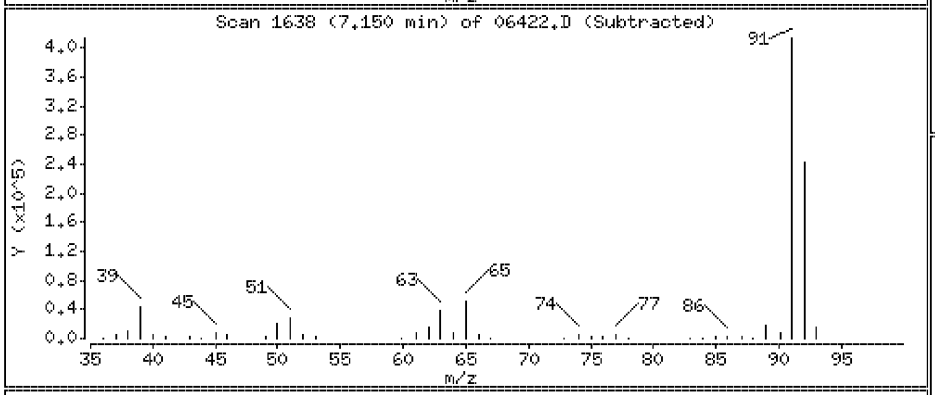
Column diameter: 0.32

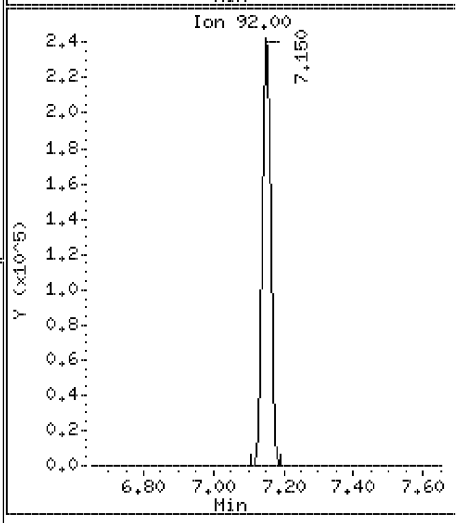
61 Toluene

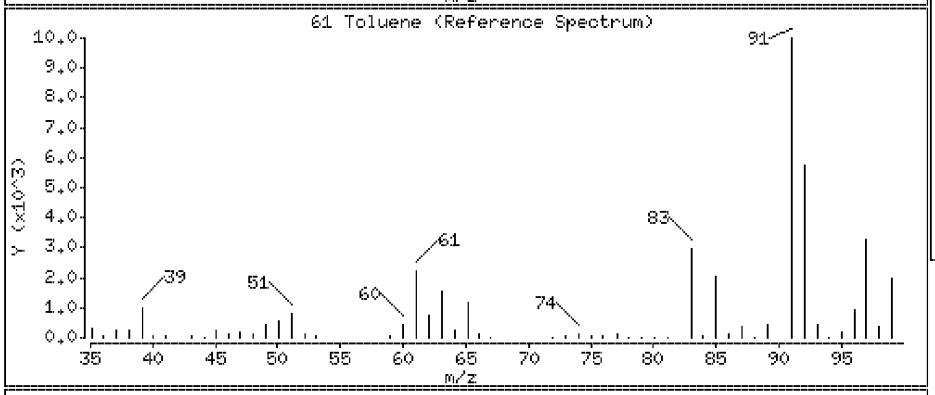
Concentration: 26.3 ppbv

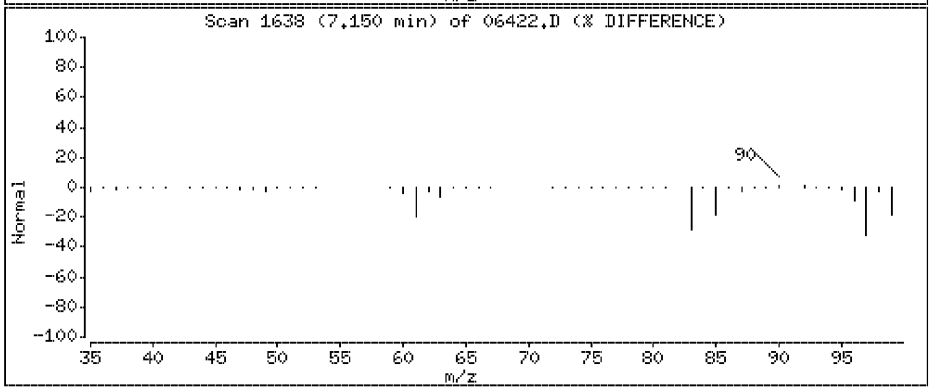












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

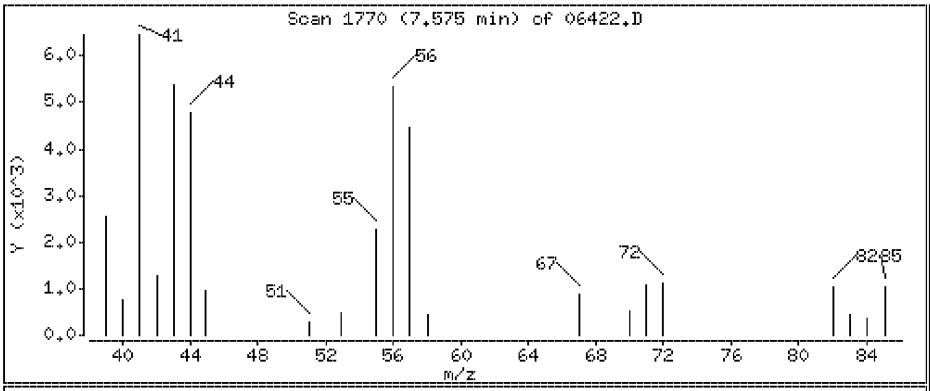
Operator: NCK

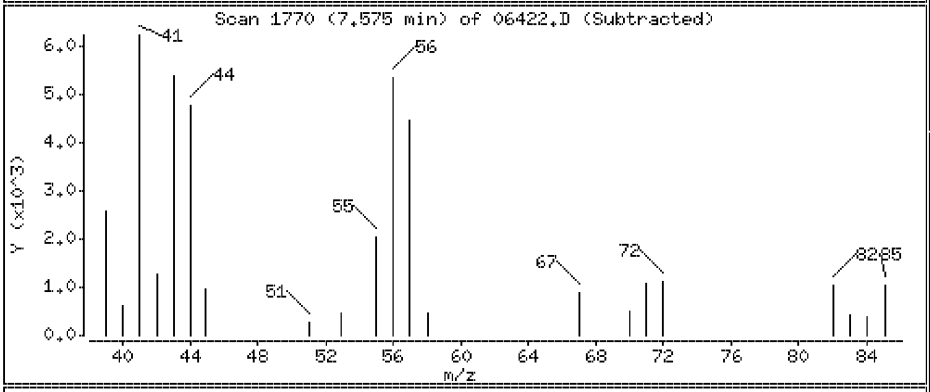
Column phase: J&W DB-5

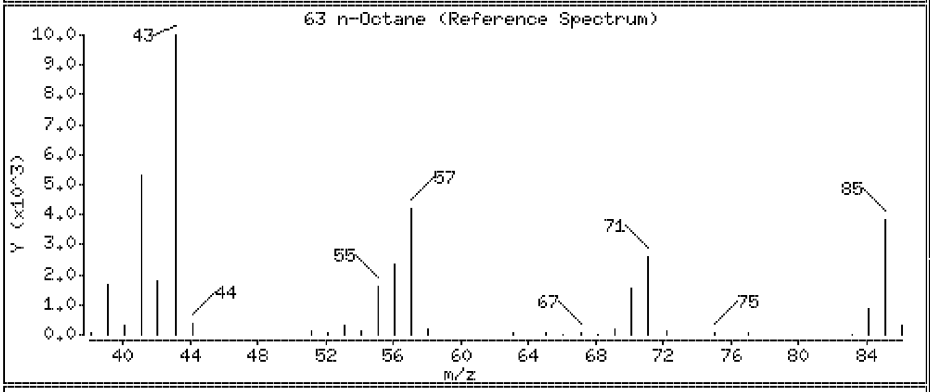
Column diameter: 0.32

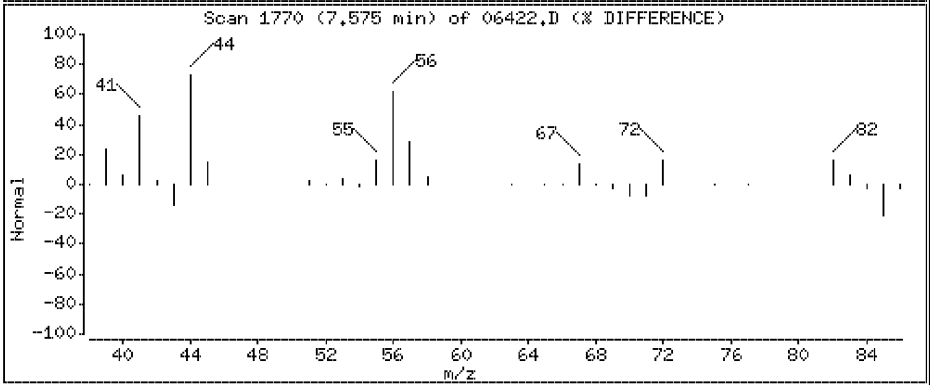
63 n-Octane

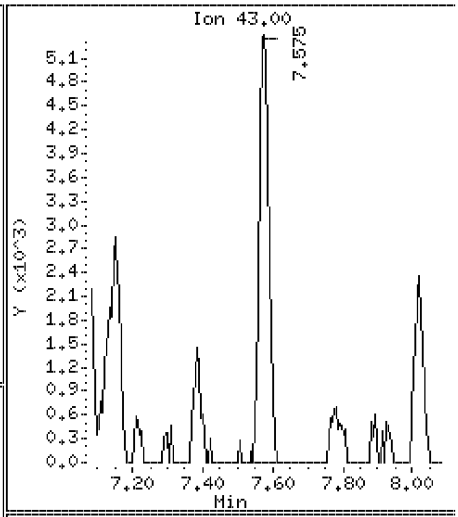
Concentration: 0.726 ppbv

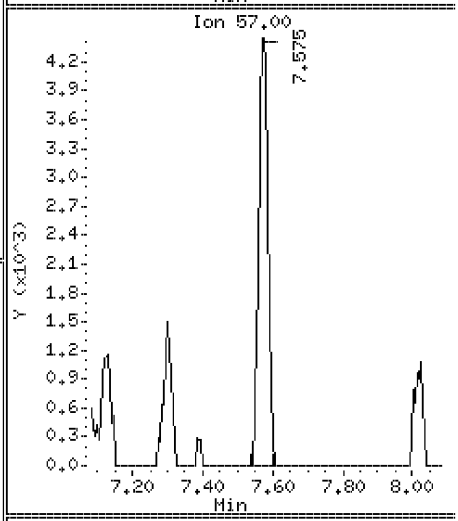


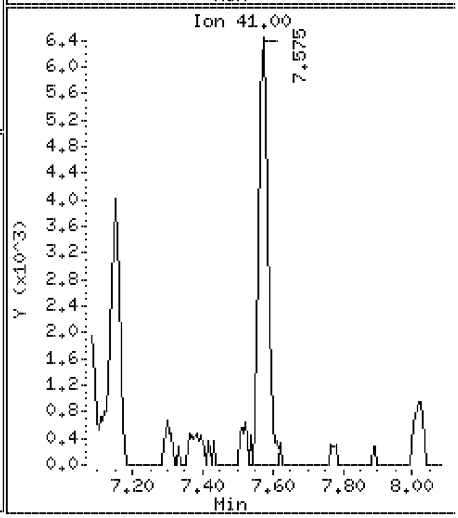












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

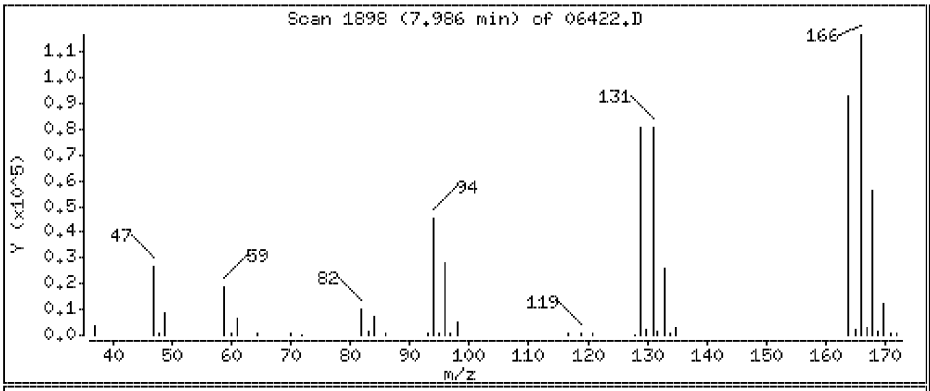
Operator: NCK

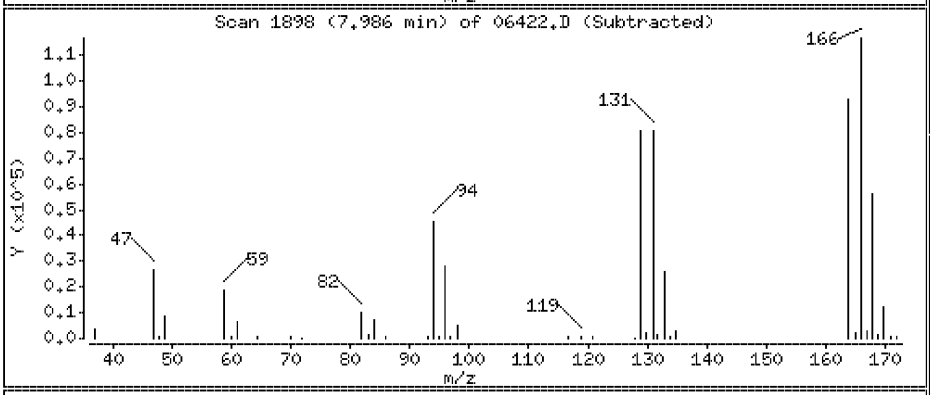
Column phase: J&W DB-5

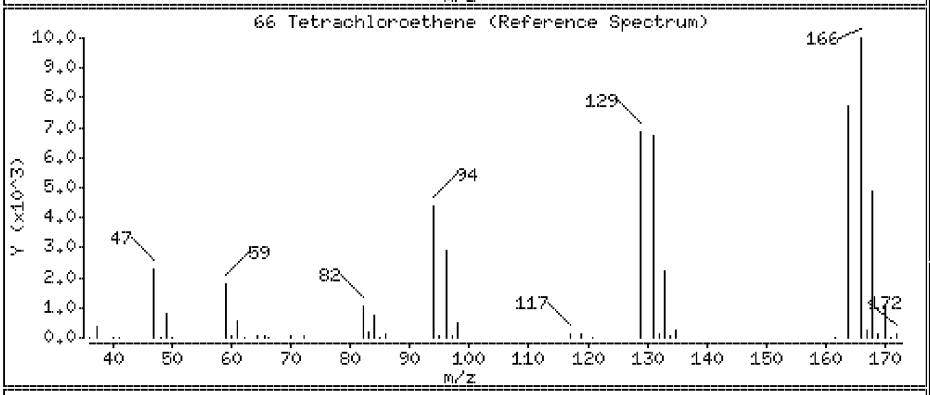
Column diameter: 0.32

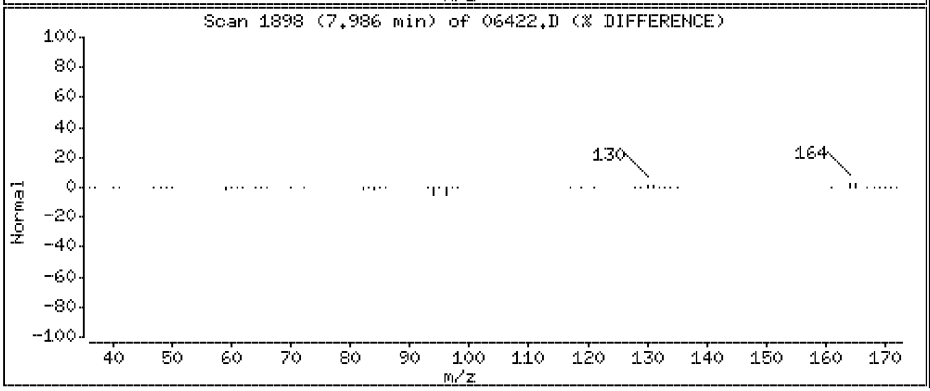
66 Tetrachloroethene

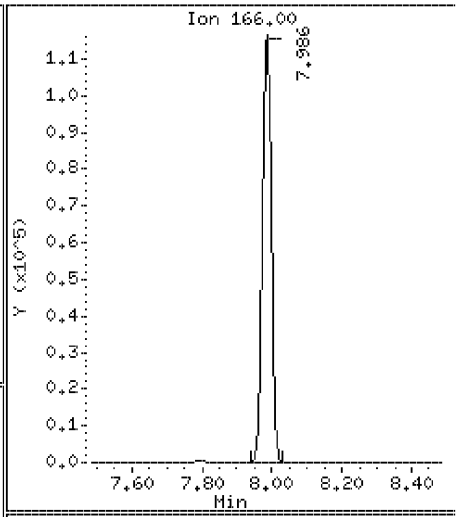
Concentration: 14.2 ppbv

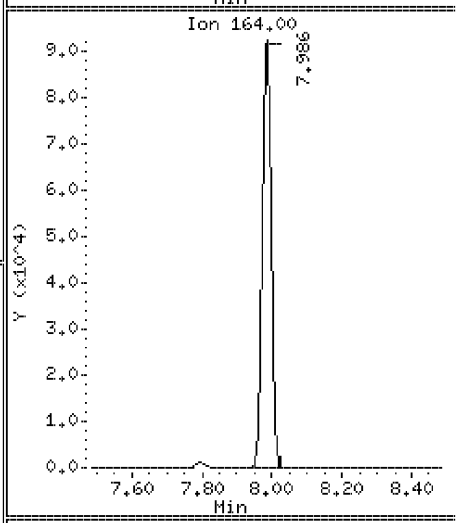


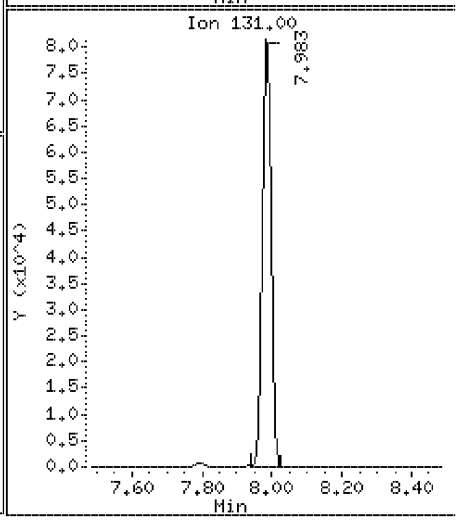












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

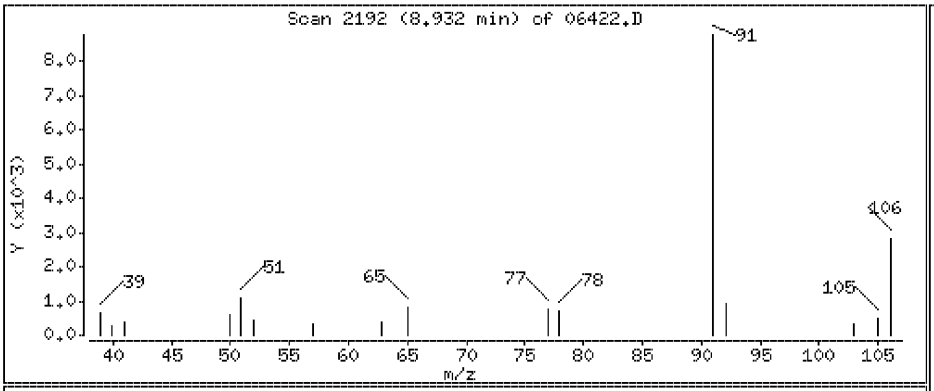
Operator: NCK

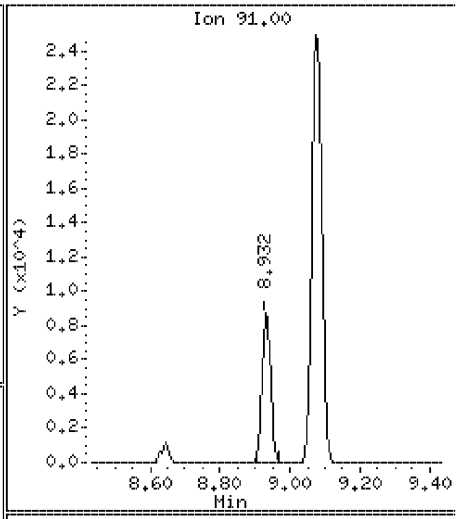
Column phase: J&W DB-5

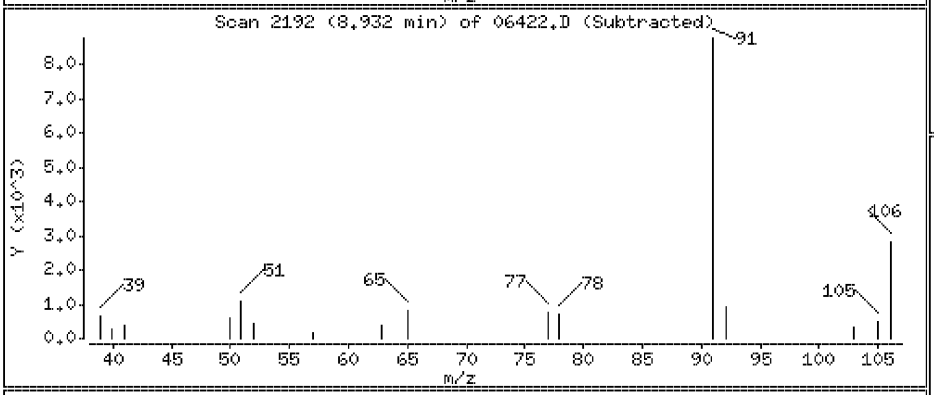
Column diameter: 0.32

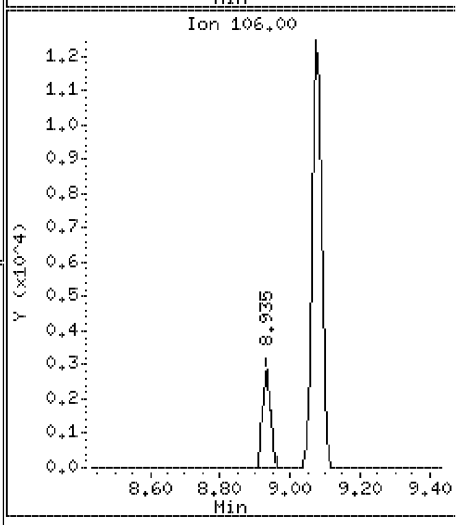
69 Ethyl Benzene

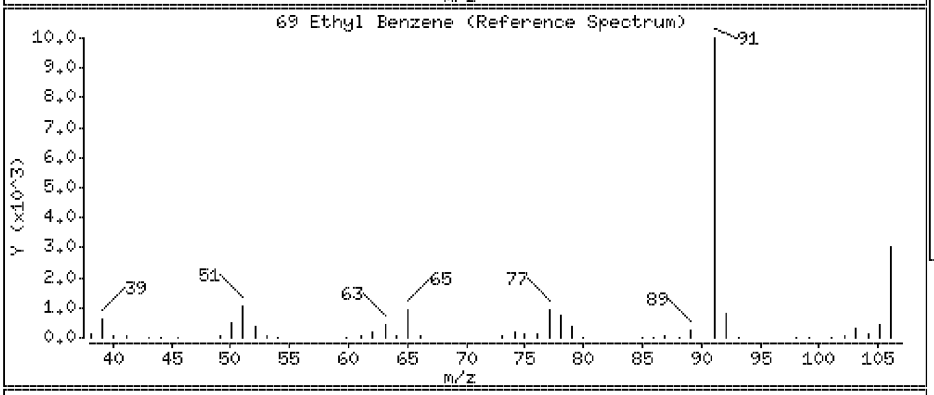
Concentration: 0.475 ppbv

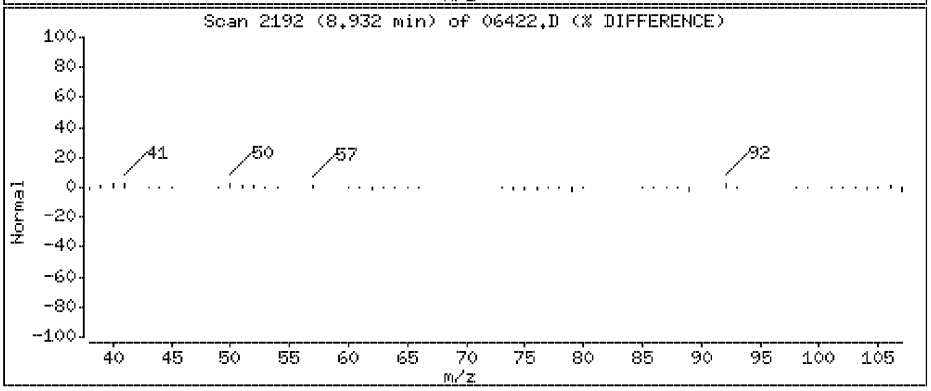












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

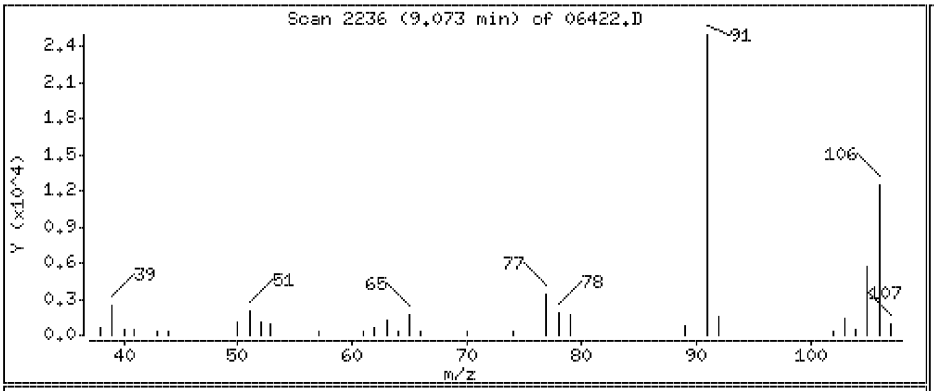
Operator: NCK

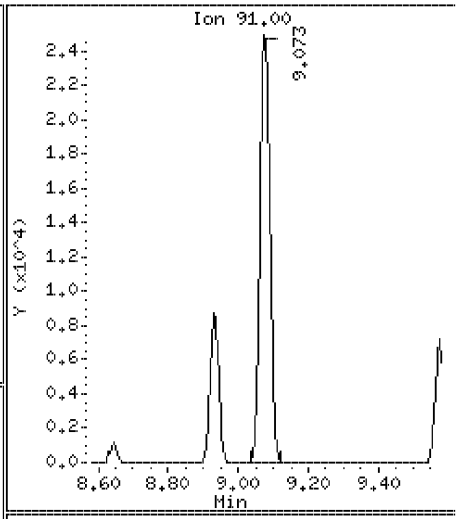
Column phase: J&W DB-5

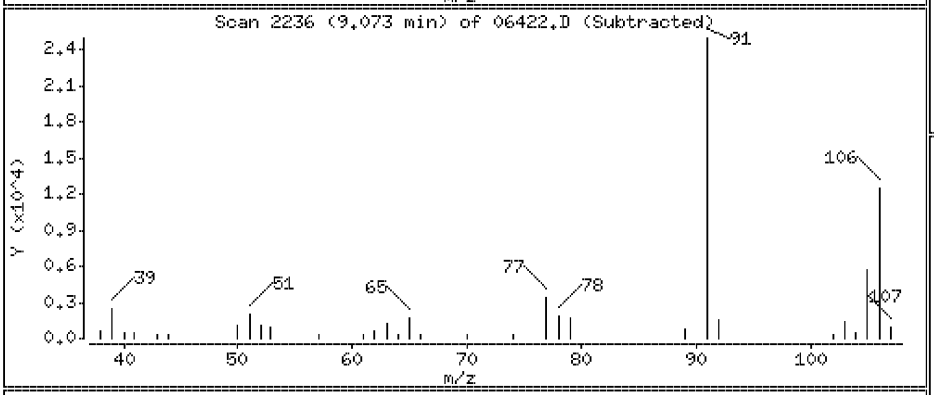
Column diameter: 0.32

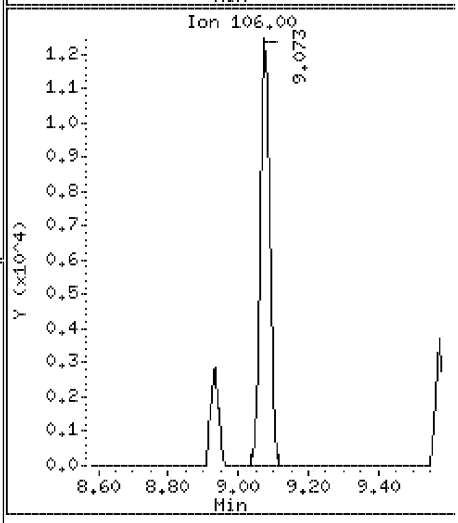
70 m&p-Xylene

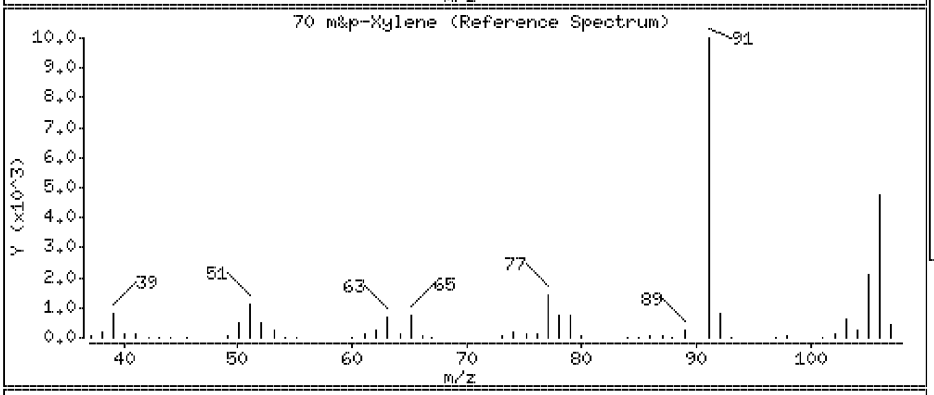
Concentration: 2.03 ppbv

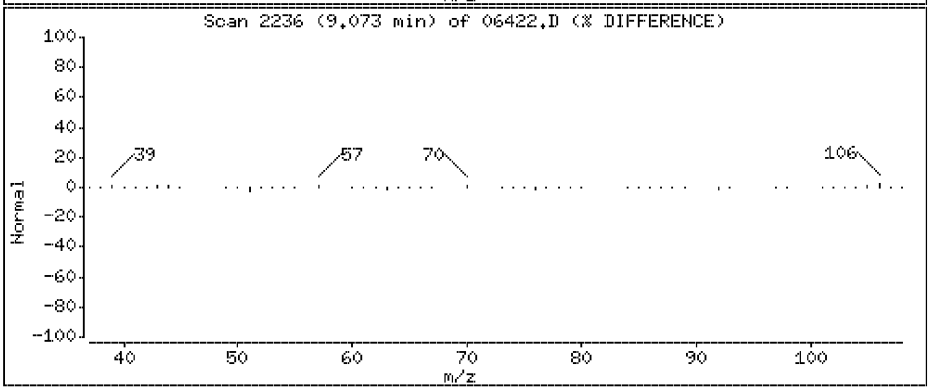












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

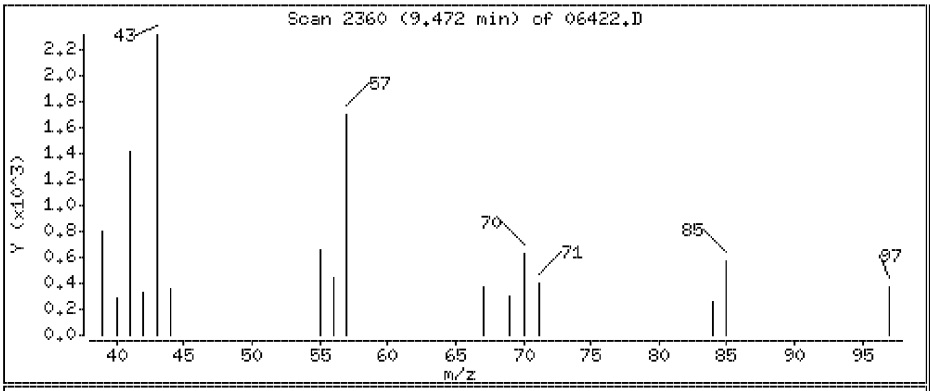
Operator: NCK

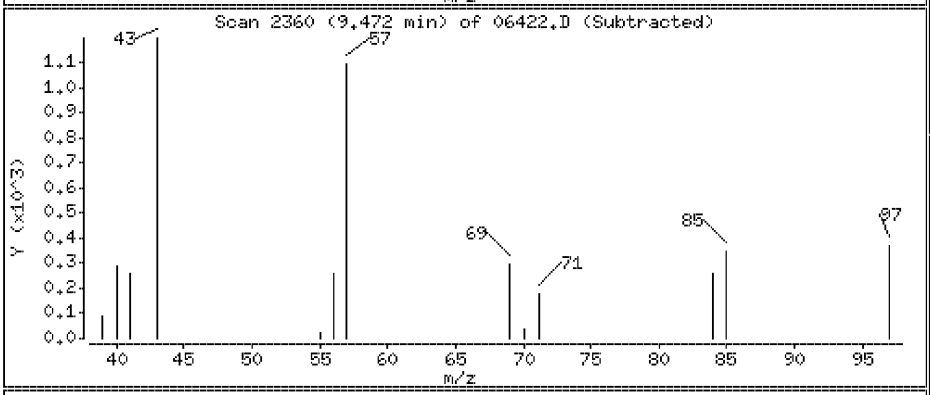
Column phase: J&W DB-5

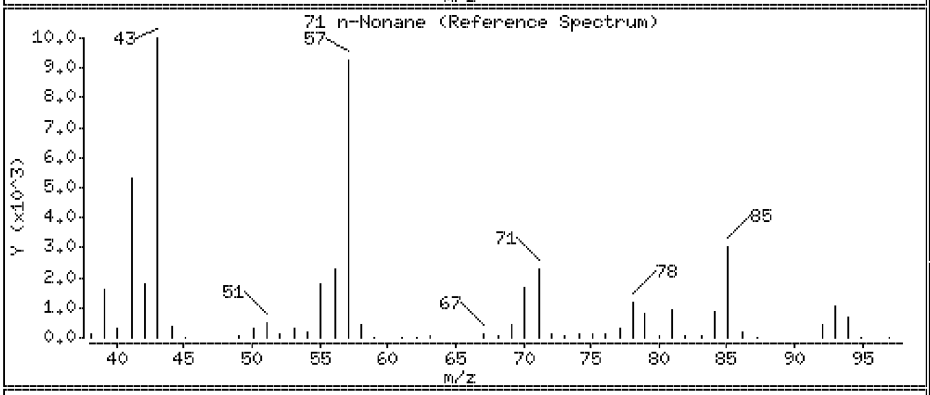
Column diameter: 0.32

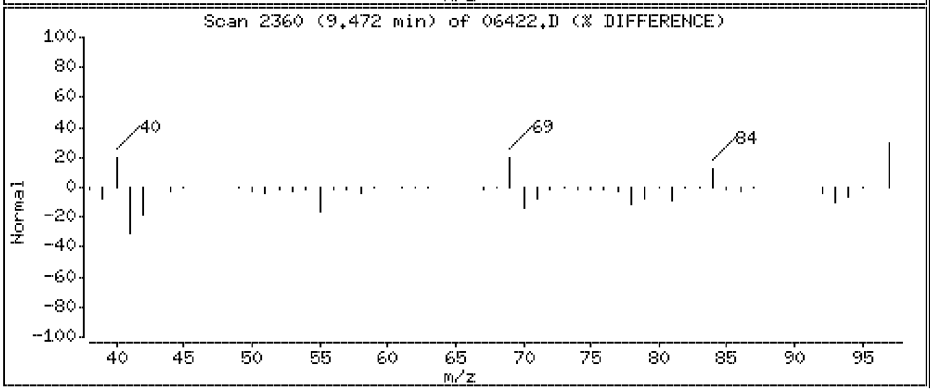
71 n-Nonane

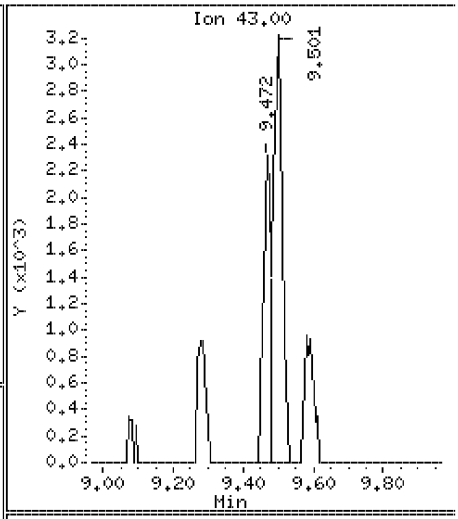
Concentration: 0.261 ppbv

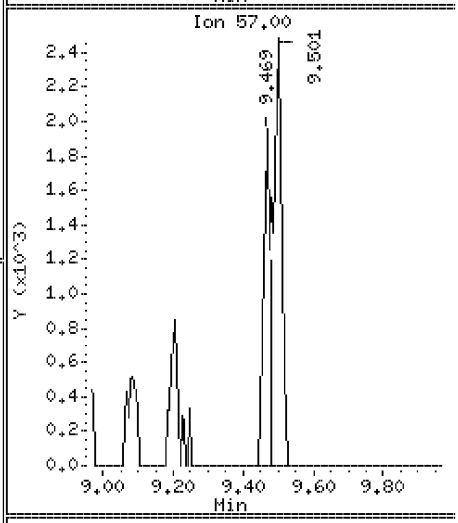


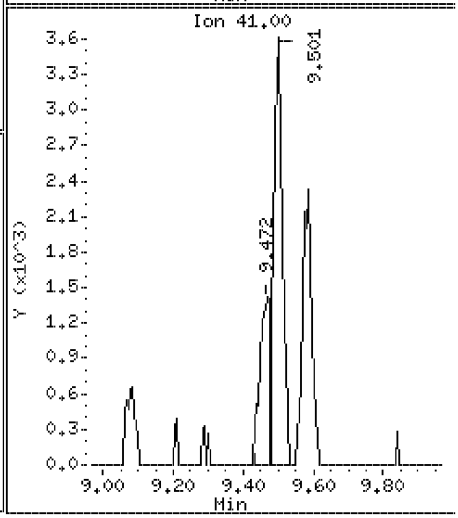












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

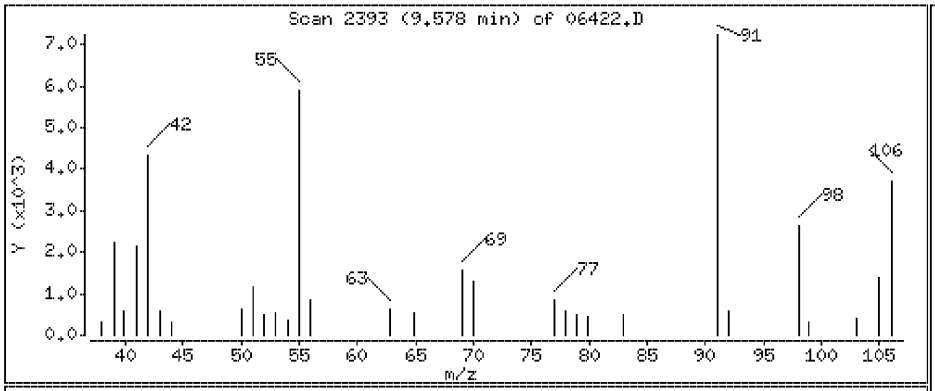
Operator: NCK

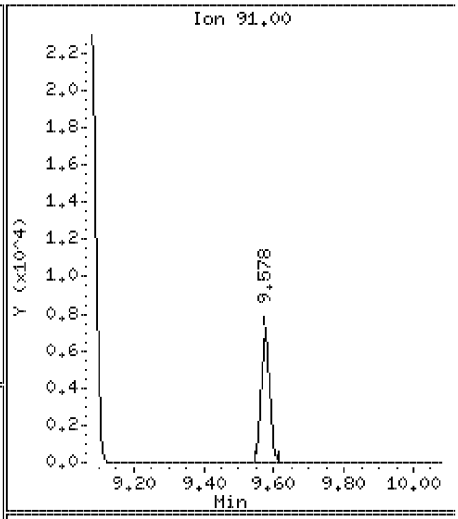
Column phase: J&W DB-5

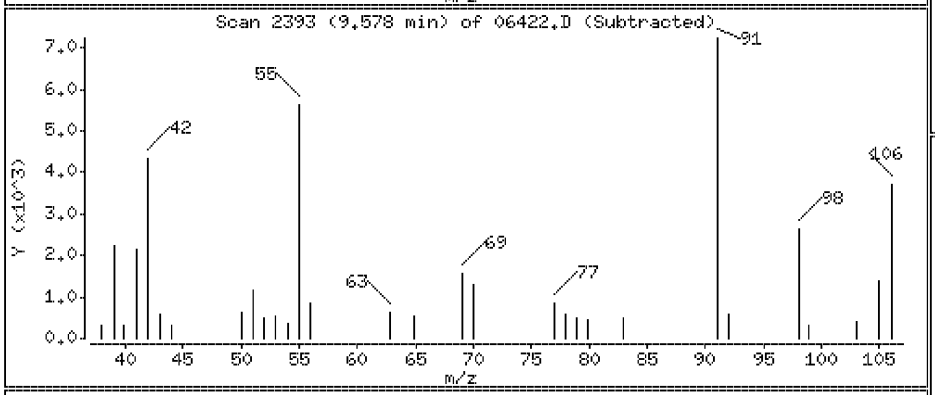
Column diameter: 0.32

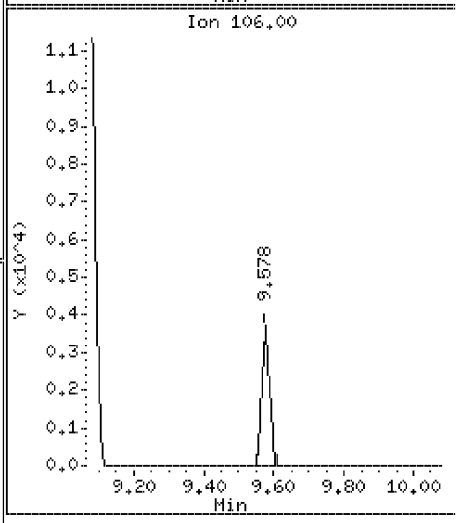
74 o-Xylene

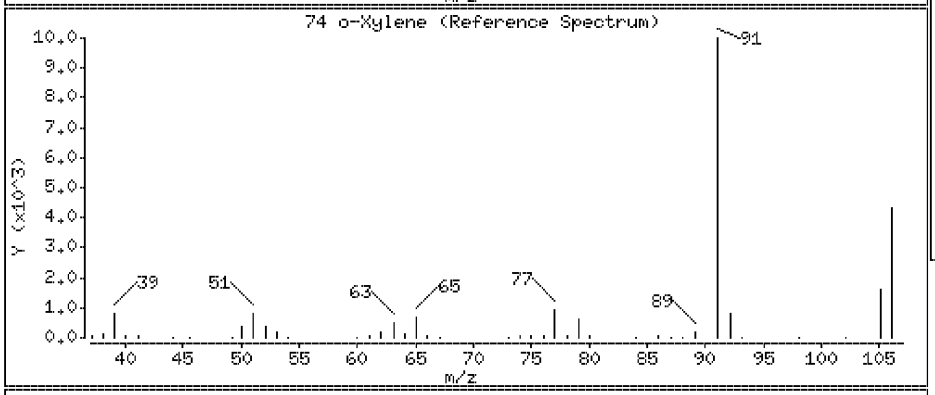
Concentration: 0.482 ppbv

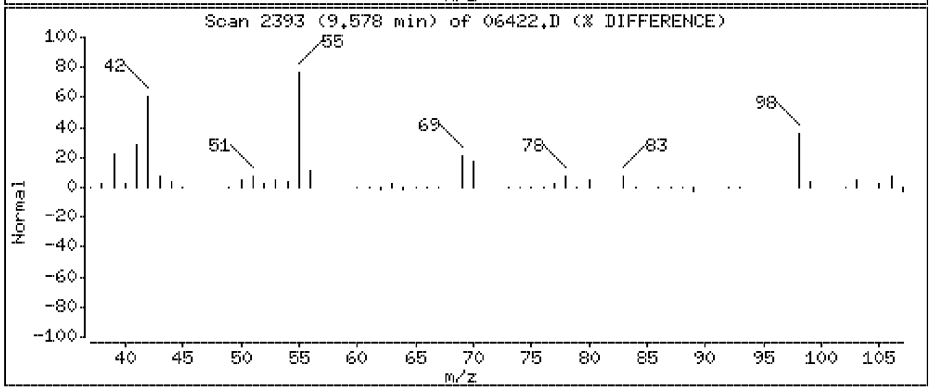












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

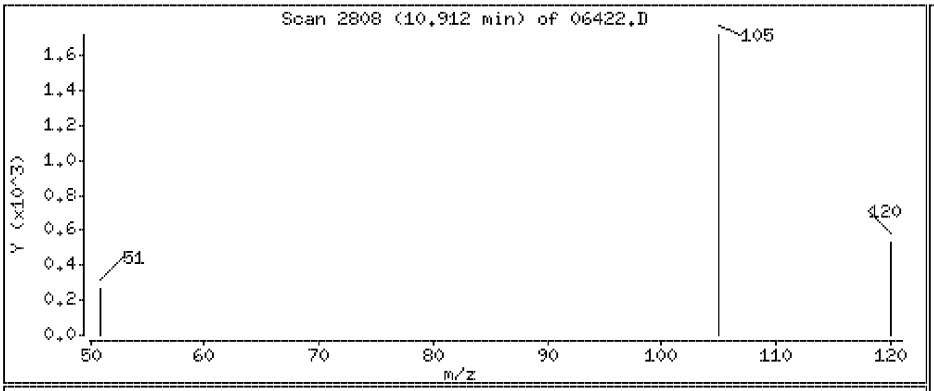
Operator: NCK

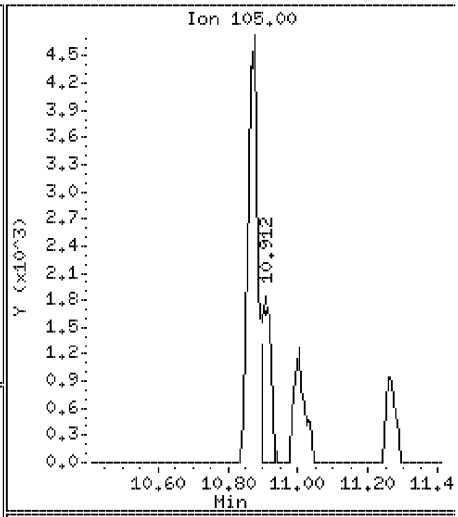
Column phase: J&W DB-5

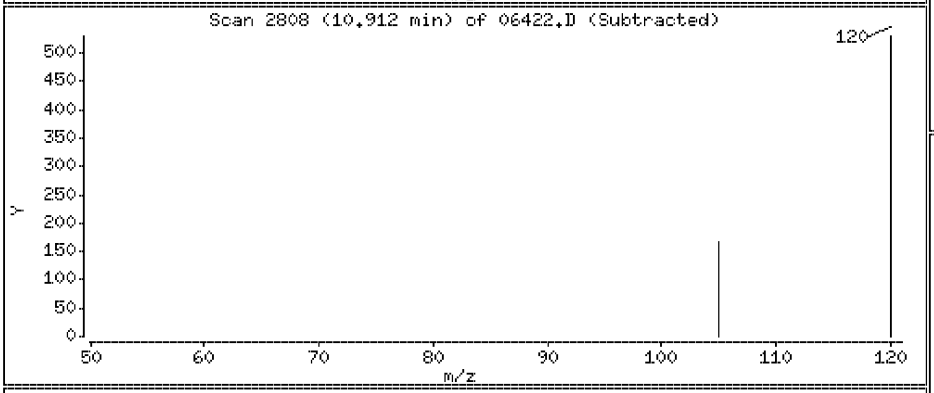
Column diameter: 0.32

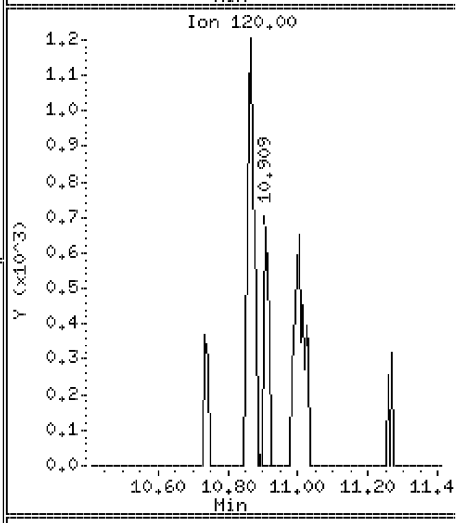
78 4-Ethyltoluene

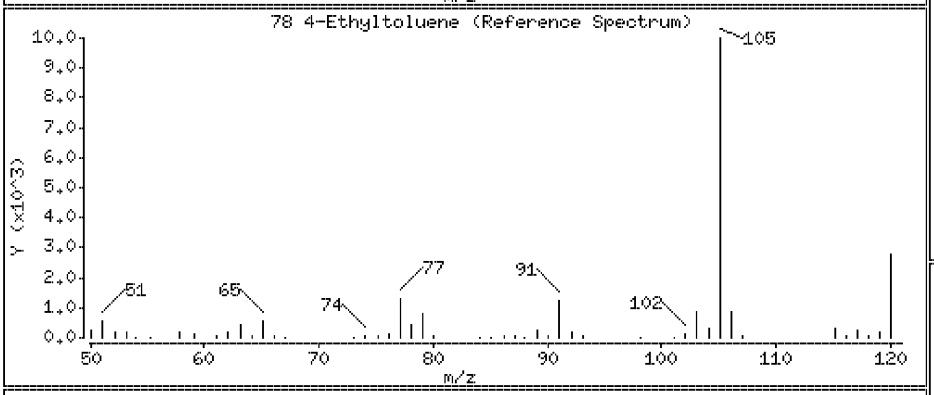
Concentration: 0.268 ppbv

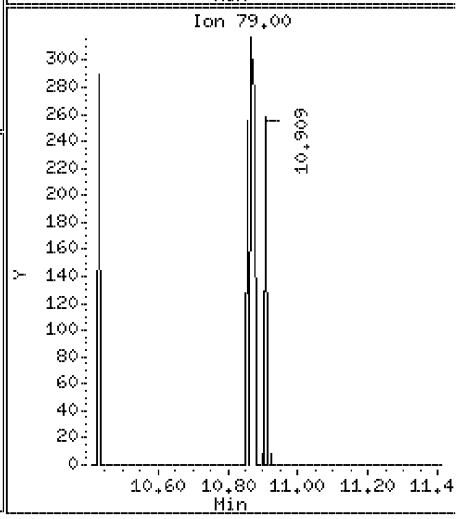


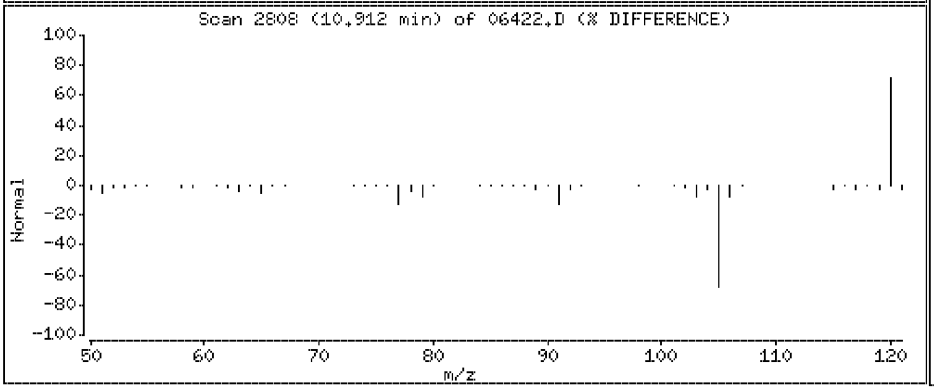












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

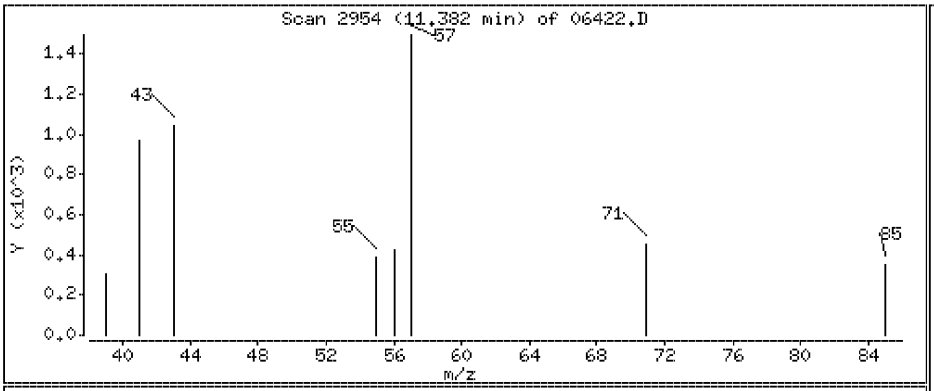
Operator: NCK

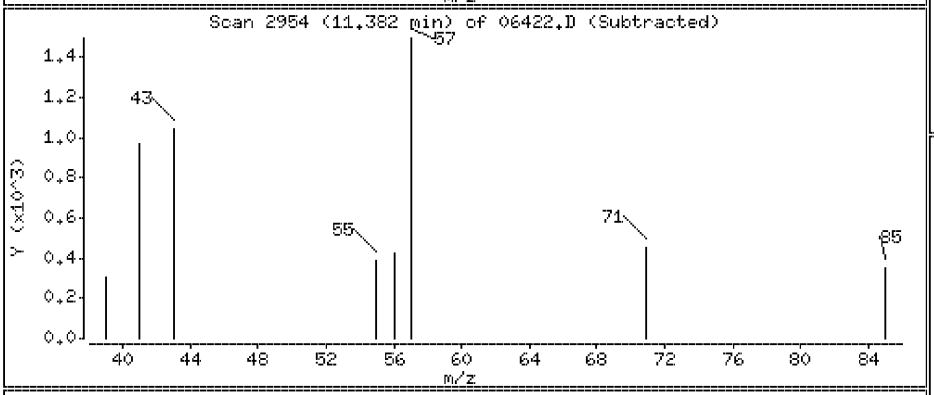
Column phase: J&W DB-5

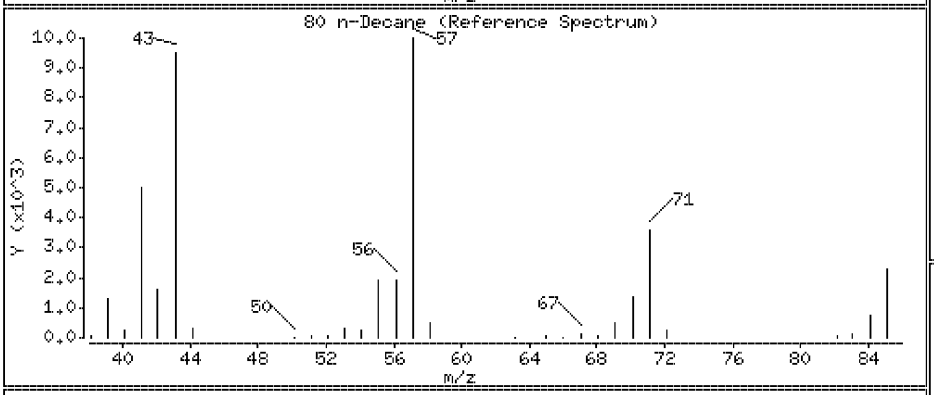
Column diameter: 0.32

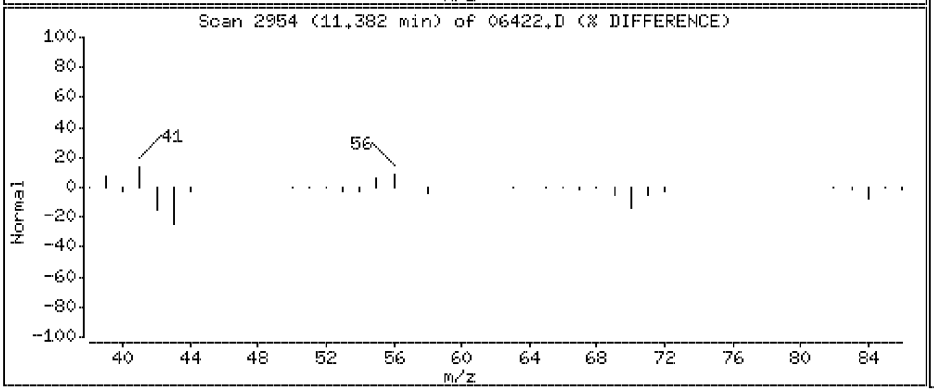
80 n-Decane

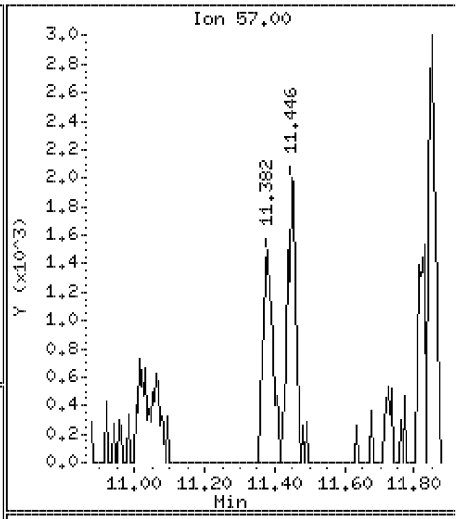
Concentration: 0.629 ppbv

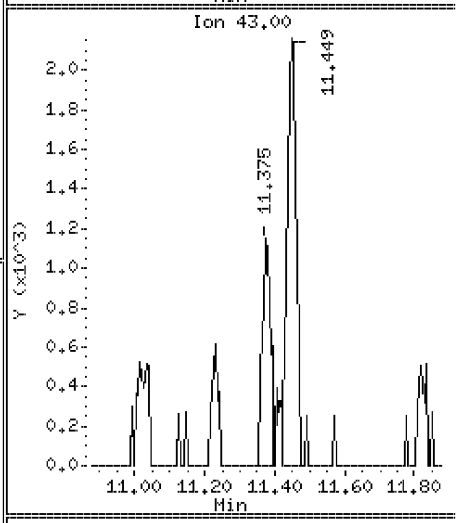


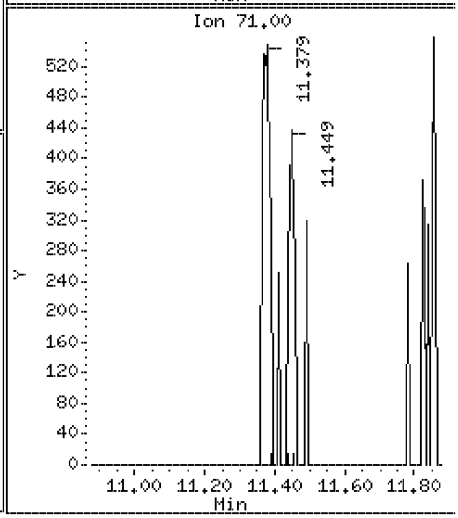












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

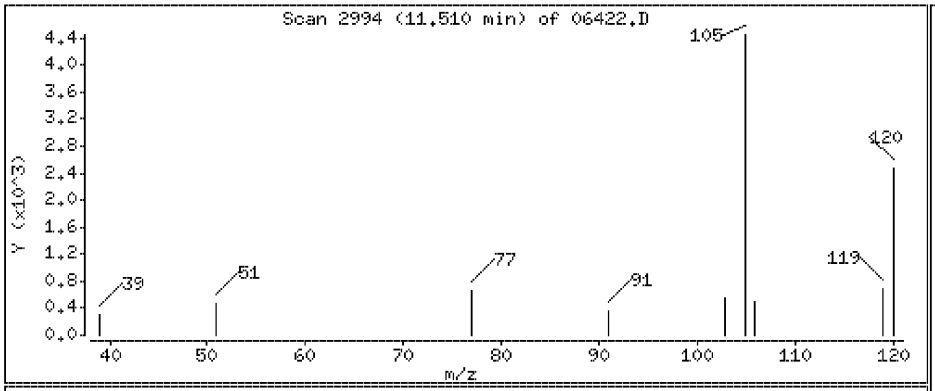
Operator: NCK

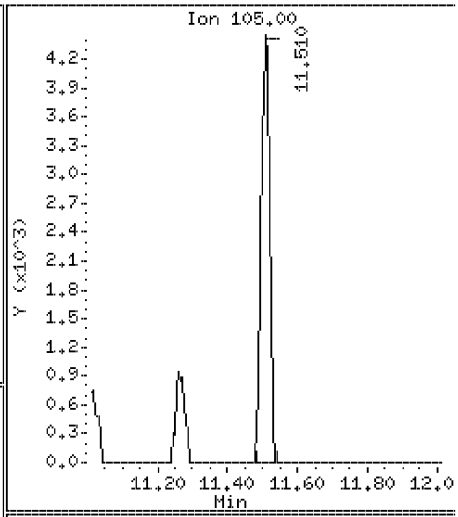
Column phase: J&W DB-5

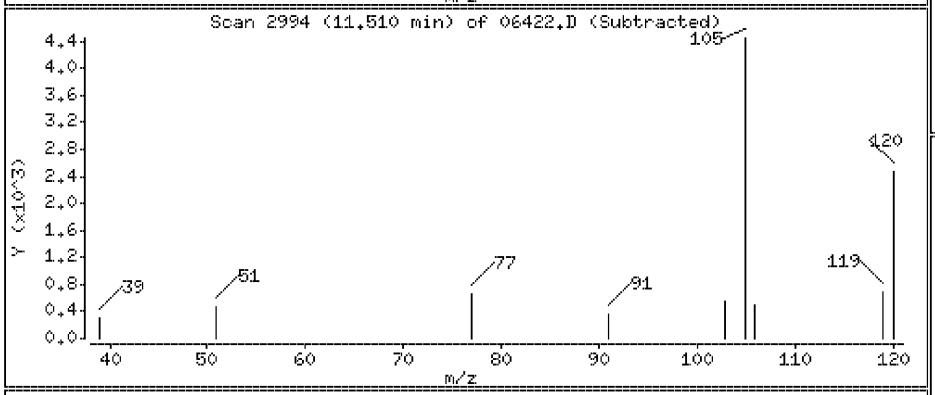
Column diameter: 0.32

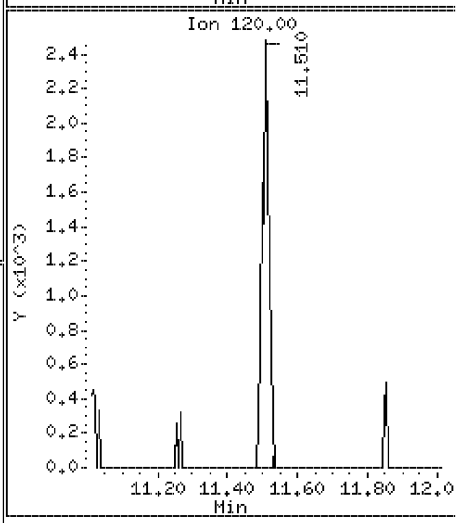
82 1,2,4-Trimethylbenzene

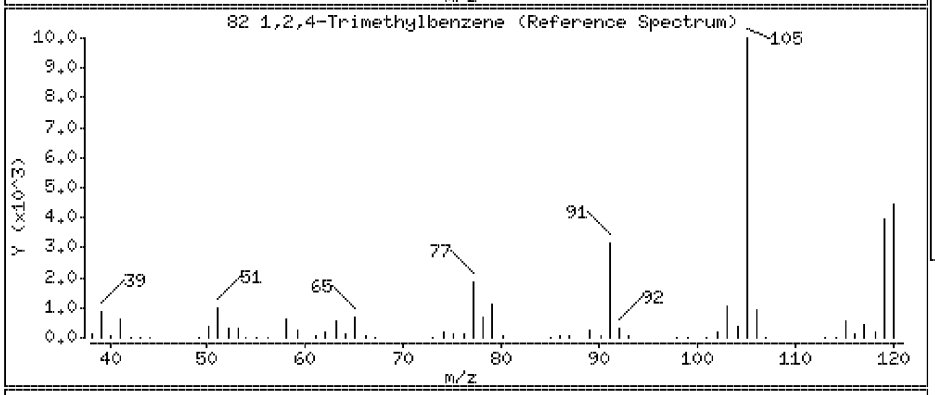
Concentration: 0.294 ppbv

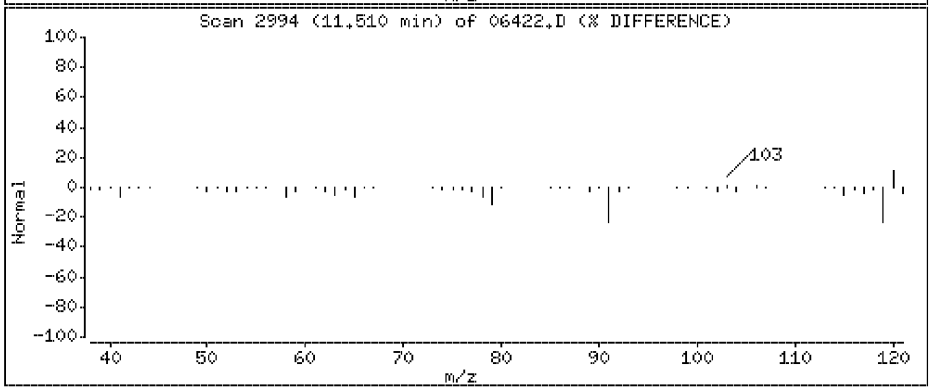












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06422.D

Date : 05-MAR-2017 19:59

Client ID:

Instrument: 10airB.i

Sample Info:

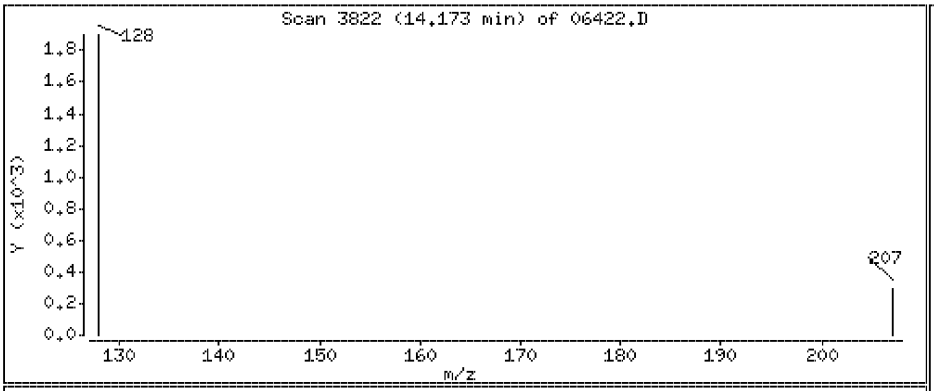
Operator: NCK

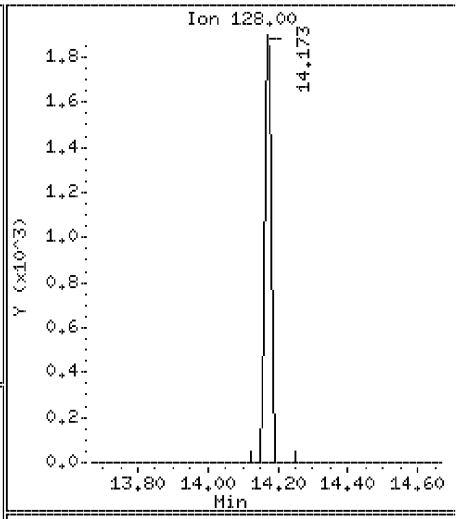
Column phase: J&W DB-5

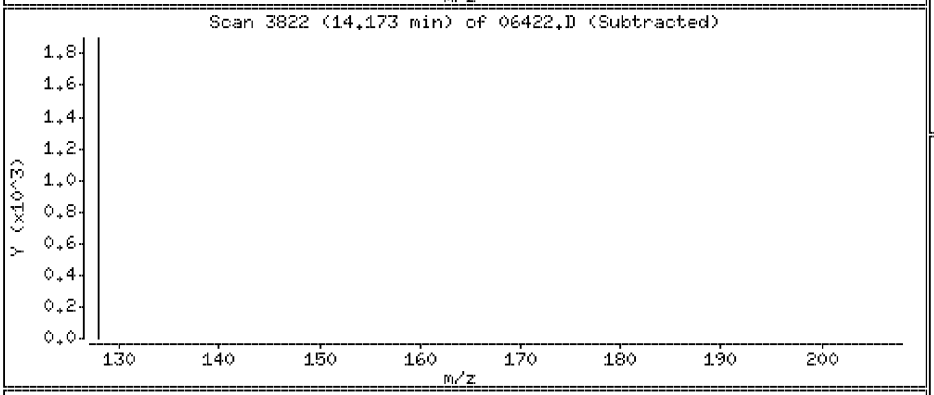
Column diameter: 0.32

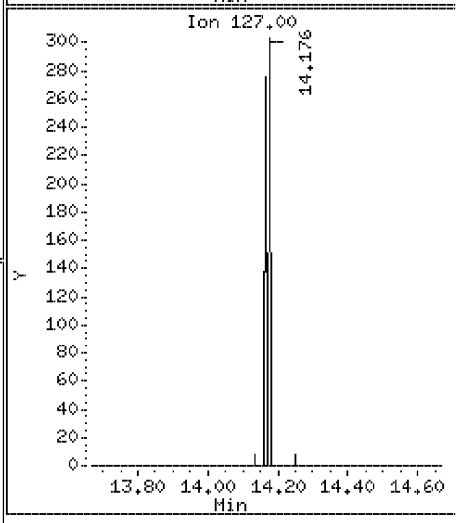
94 Naphthalene

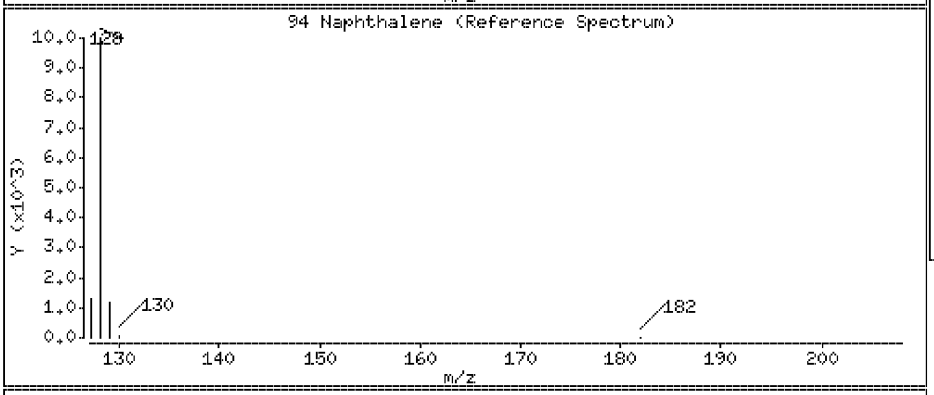
Concentration: 0.790 ppbv

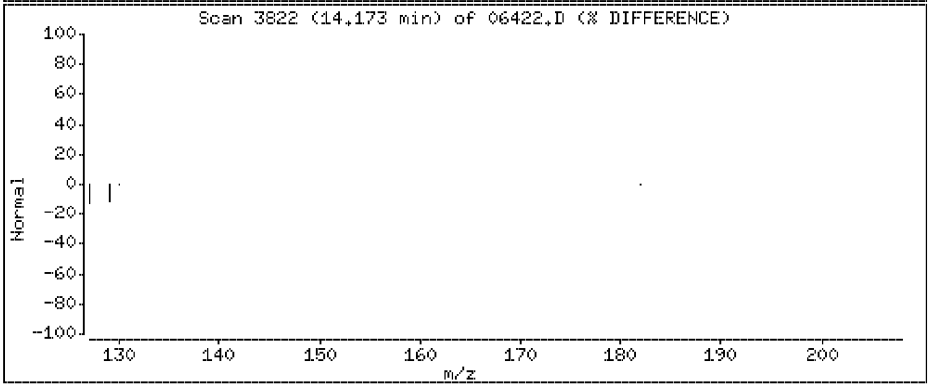






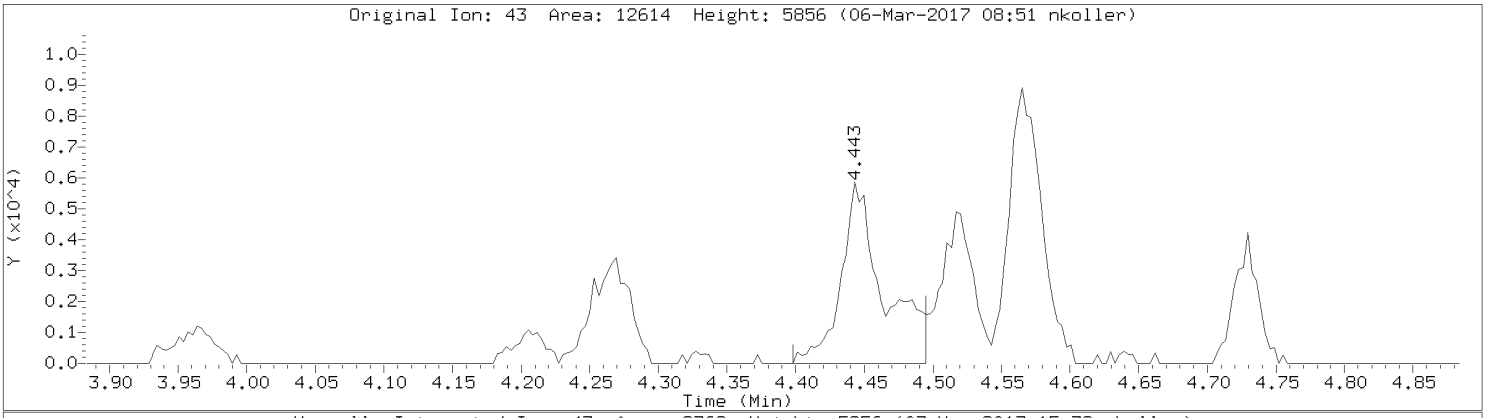


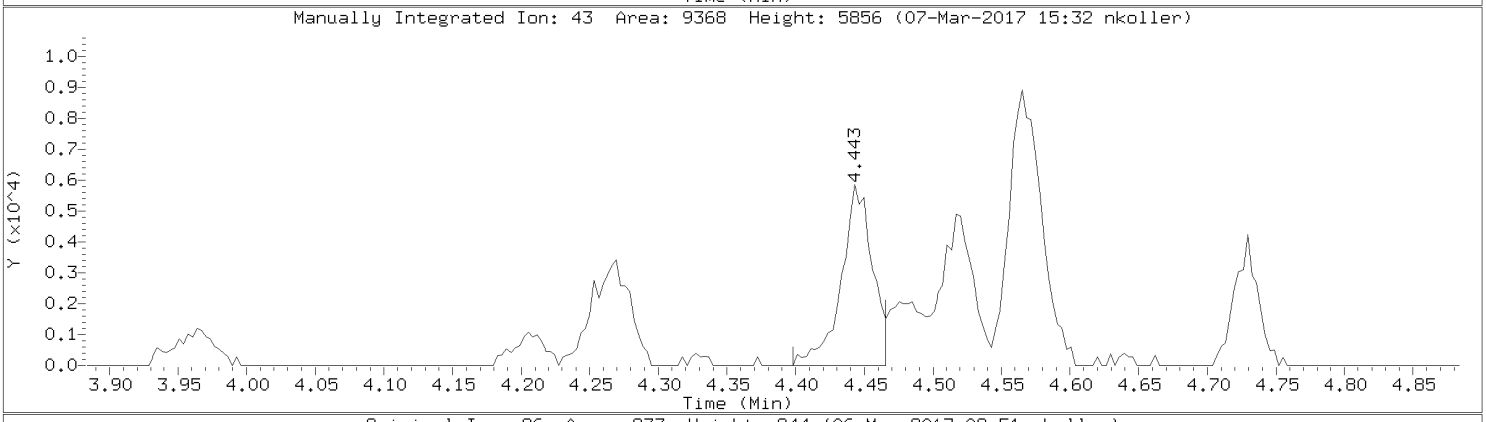


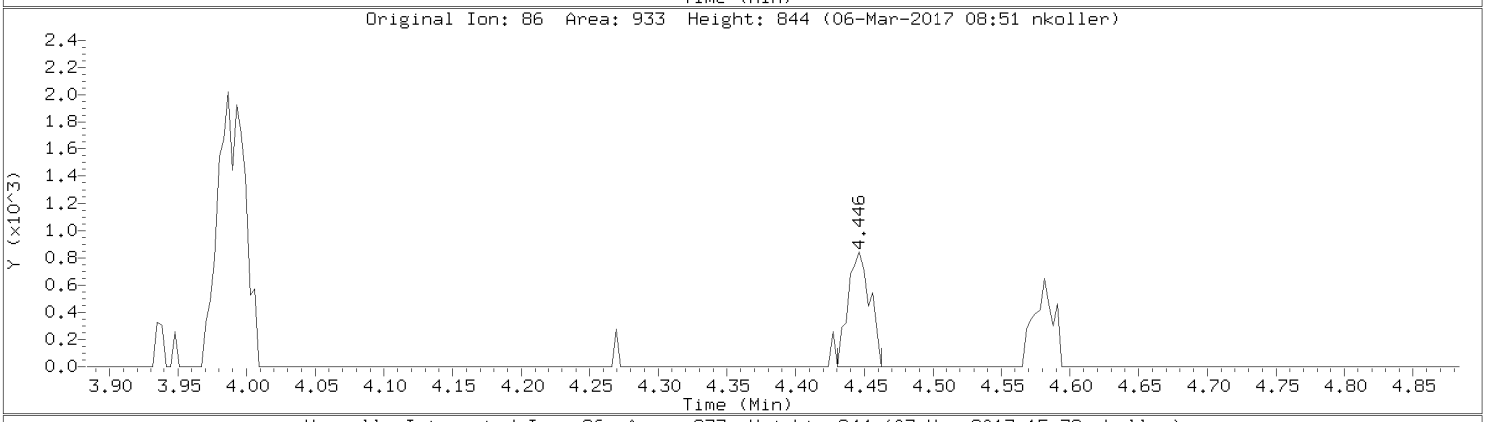


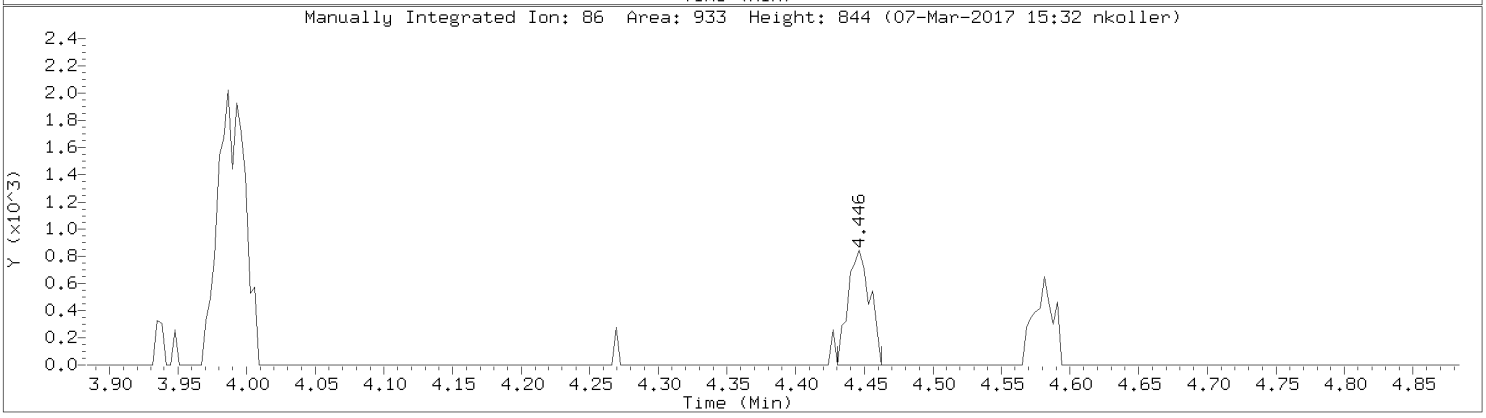
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06422.D
Injection Date: 05-MAR-2017 19:59
Instrument: 10airB.i
Lab Sample ID: 10380193003

Compound: Vinyl Acetate
CAS Number: 108-05-4



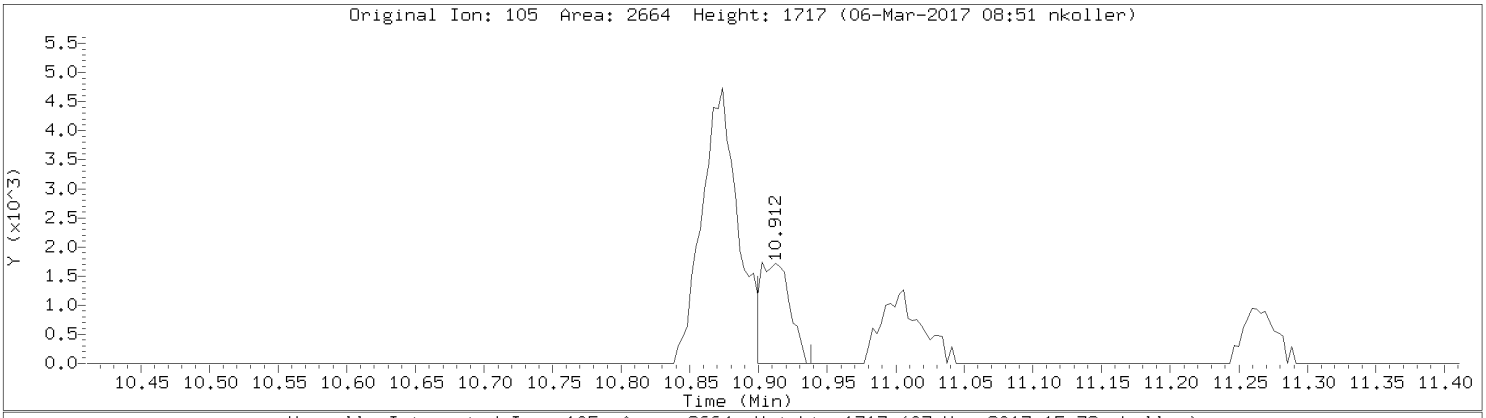


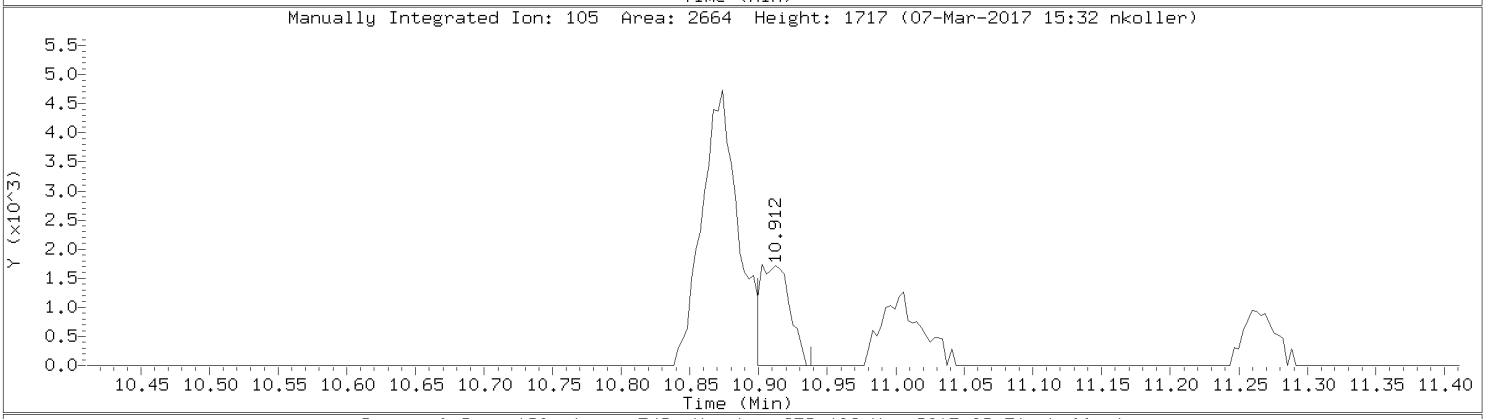


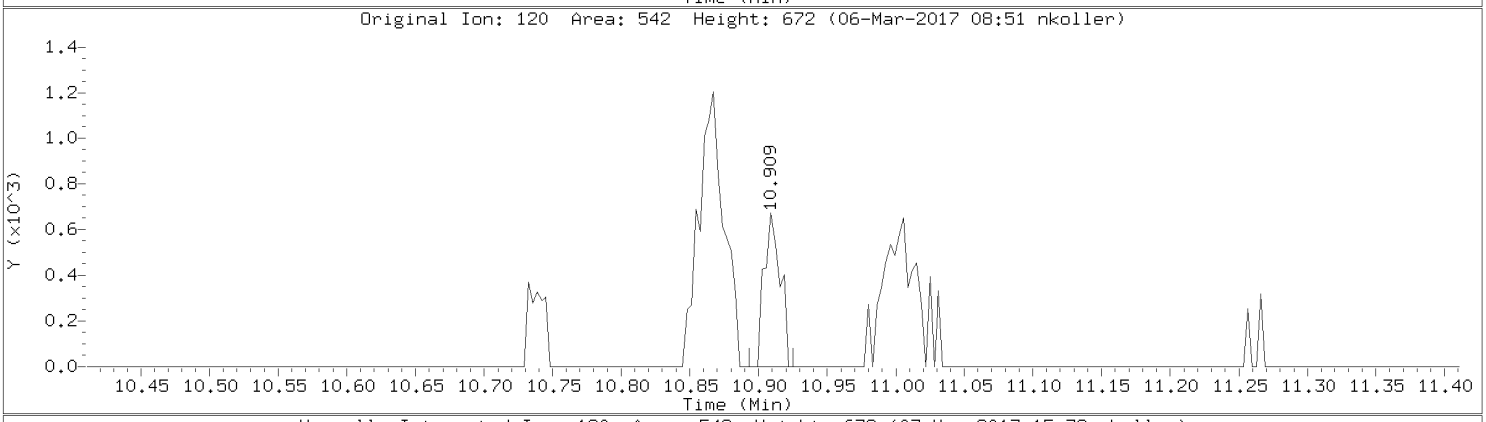


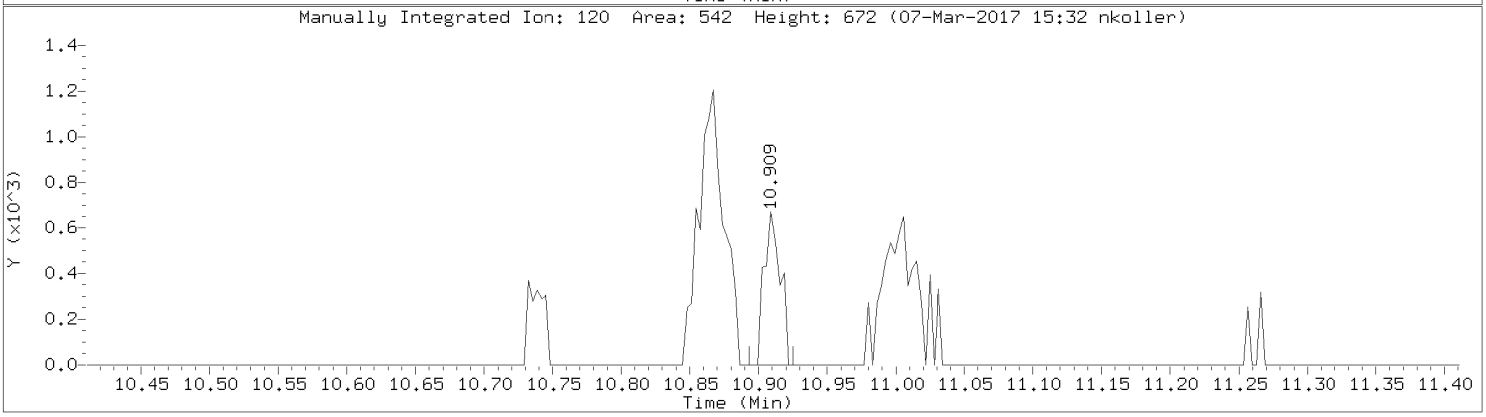
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06422.D
Injection Date: 05-MAR-2017 19:59
Instrument: 10airB.i
Lab Sample ID: 10380193003

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

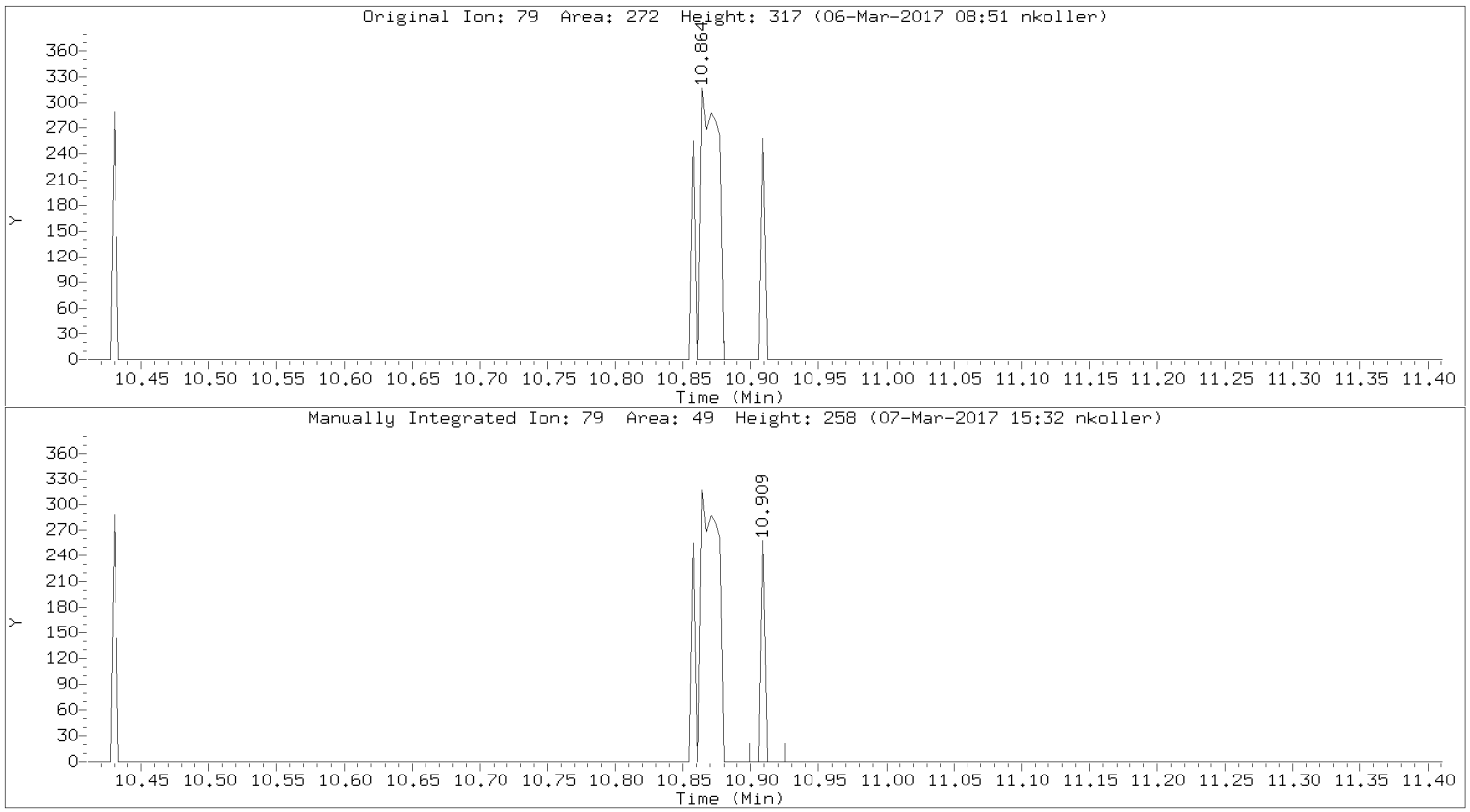






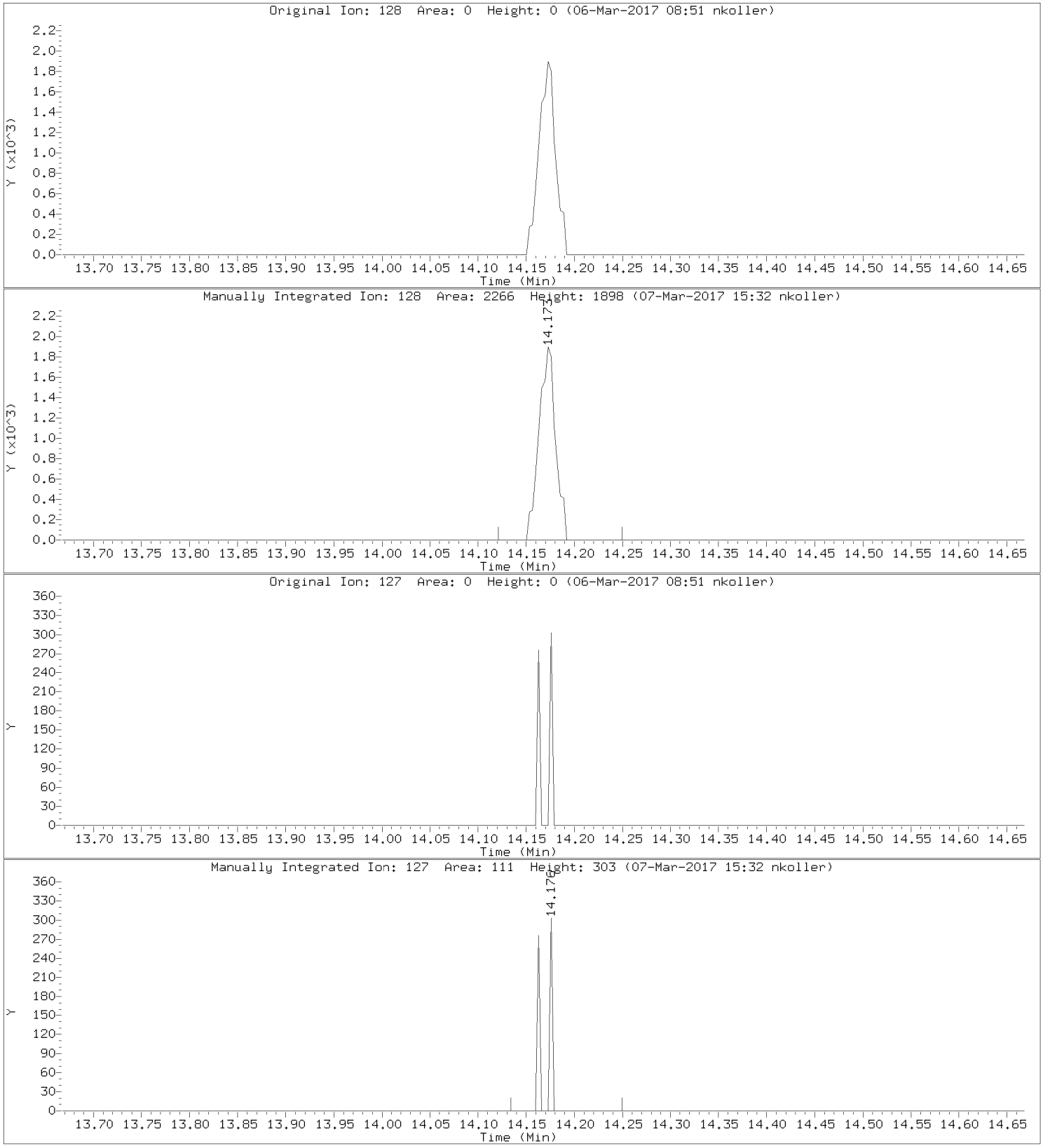


Data File: \\192.168.10.12\chem\10airB.i\030517.b/06422.D
Injection Date: 05-MAR-2017 19:59
Instrument: 10airB.i
Lab Sample ID: 10380193003



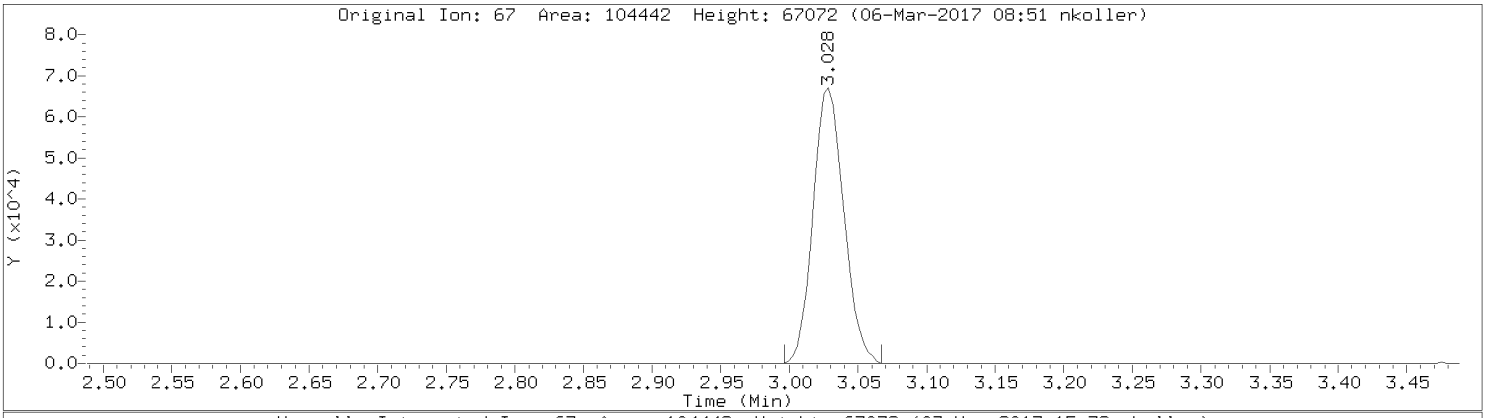
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06422.D
Injection Date: 05-MAR-2017 19:59
Instrument: 10airB.i
Lab Sample ID: 10380193003

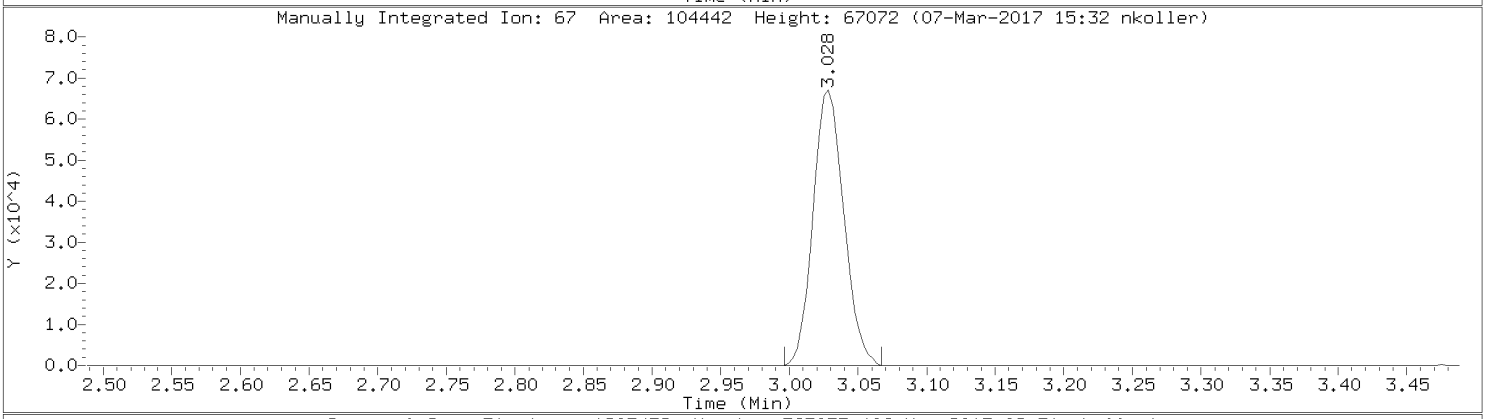
Compound: Naphthalene
CAS Number: 91-20-3

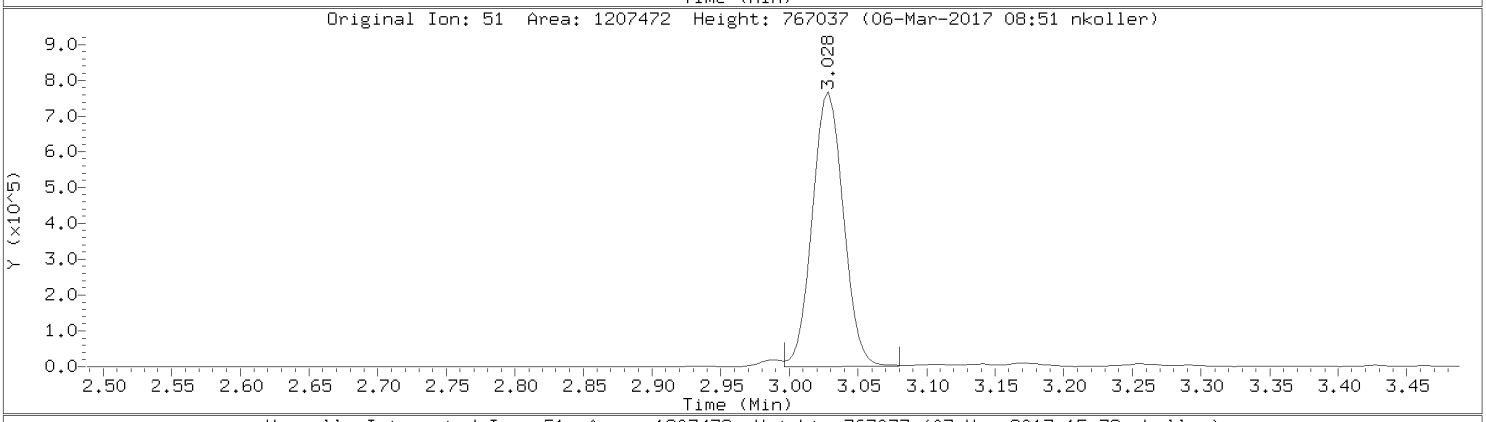


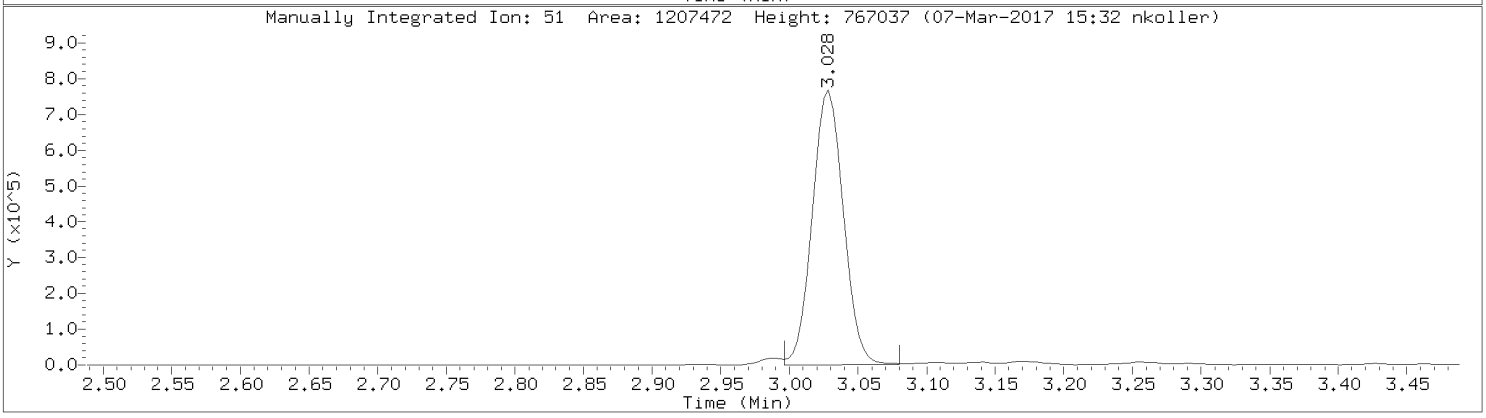
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06422.D
Injection Date: 05-MAR-2017 19:59
Instrument: 10airB.i
Lab Sample ID: 10380193003

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

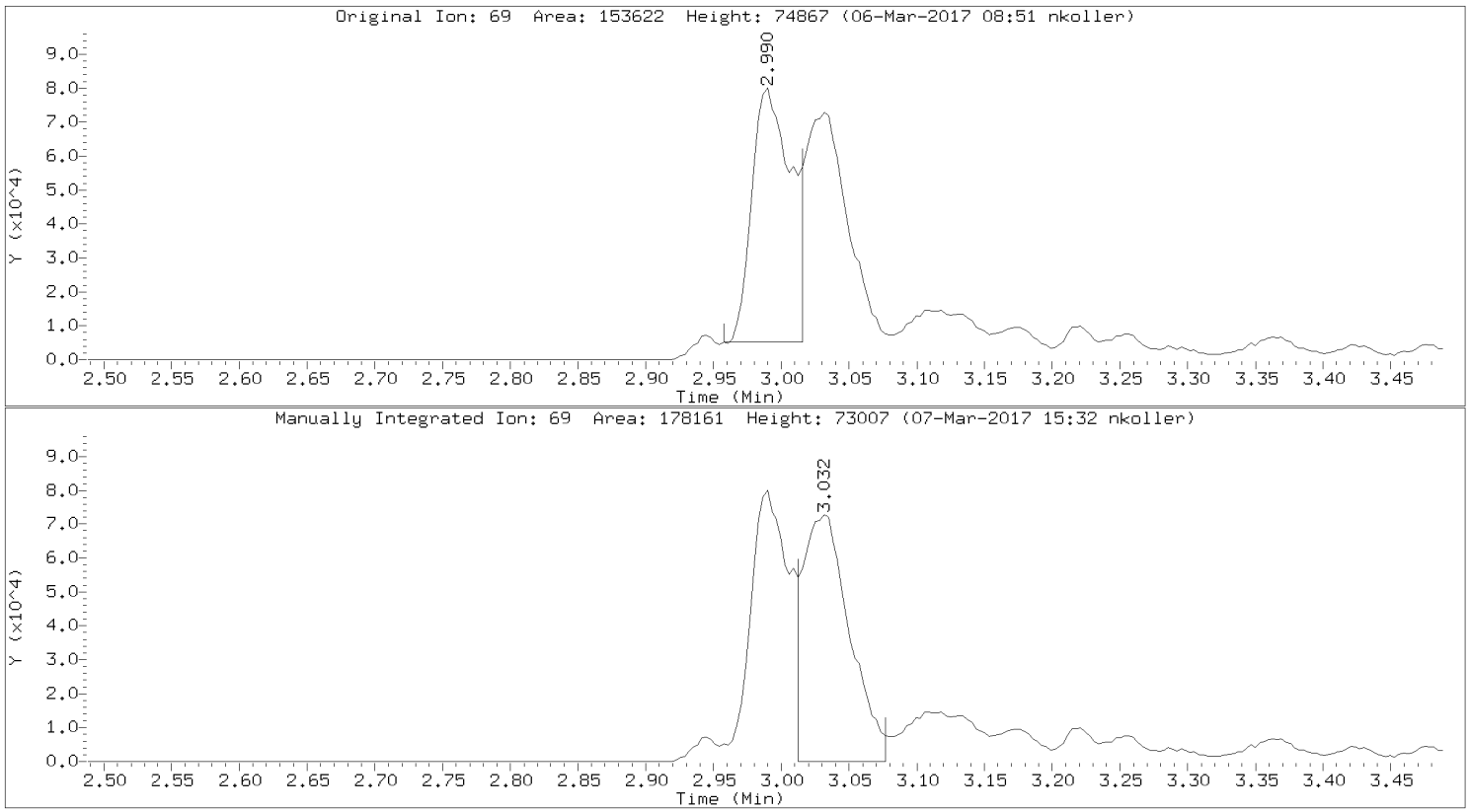








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06422.D
Injection Date: 05-MAR-2017 19:59
Instrument: 10airB.i
Lab Sample ID: 10380193003



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06508.D
Report Date: 07-Mar-2017 14:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06508.D
Lab Smp Id: 10380193003
Inj Date : 06-MAR-2017 12:14
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 13:55 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 8
Dil Factor: 38.40000
Integrator: HP RTE Compound Sublist: TCE.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	38.400	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$ 32 Hexane-d14(S)	66	4.481	4.491	(0.801)	314966	9.36331	9.36
* 47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	1057299	10.0000	
51 Trichloroethene	130	5.973	5.989	(1.067)	145714	8.20249	315
$ 59 Toluene-d8 (S)	98	7.069	7.079	(1.263)	913645	9.65480	9.65
* 67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	713732	10.0000	
$ 85 1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	373349	9.49585	9.50

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06508.D
Report Date: 07-Mar-2017 14:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06508.D
Lab Smp Id: 10380193003
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

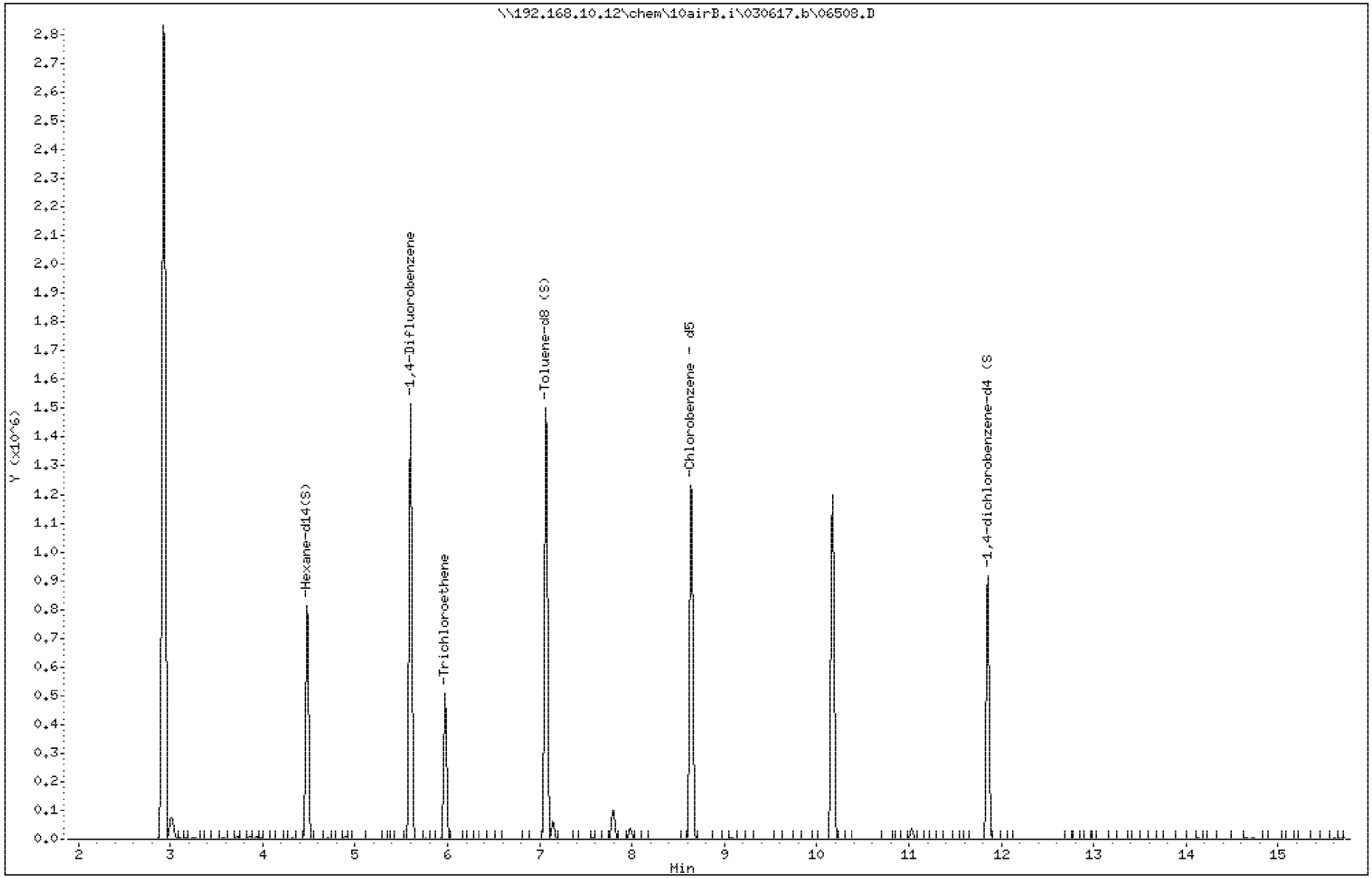
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1057299	-25.23
67 Chlorobenzene - d	951026	570616	1331436	713732	-24.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.28
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06508.D
Date : 06-MAR-2017 12:14
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06508.D

Date : 06-MAR-2017 12:14

Client ID:

Instrument: 10airB.i

Sample Info:

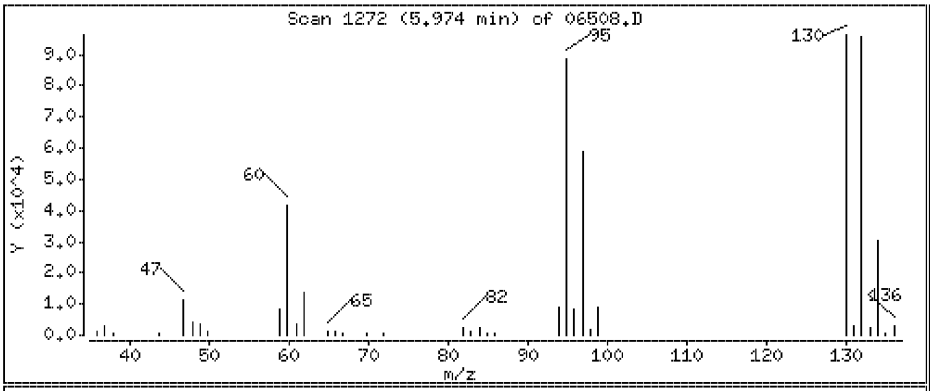
Operator: NCK

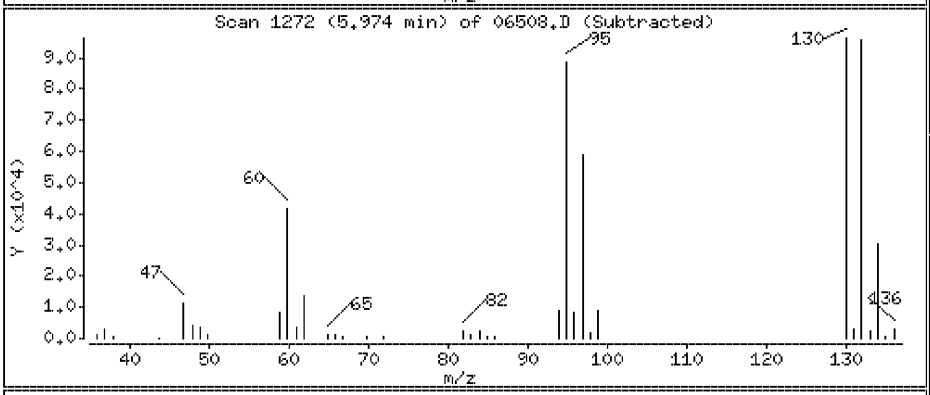
Column phase: J&W DB-5

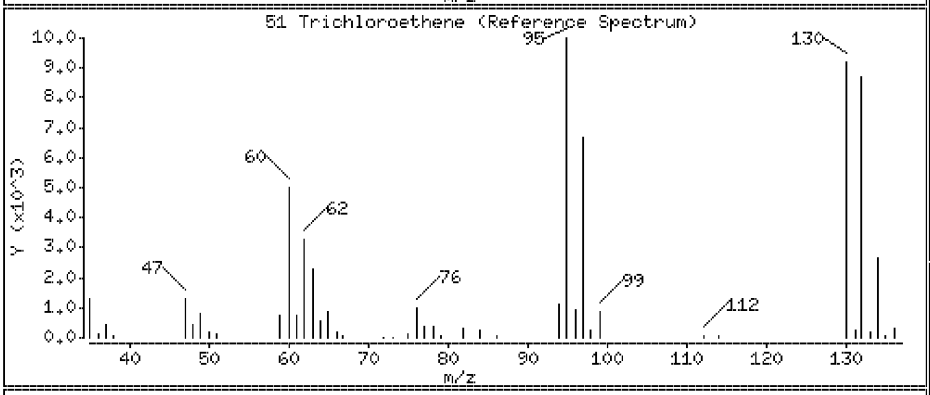
Column diameter: 0.32

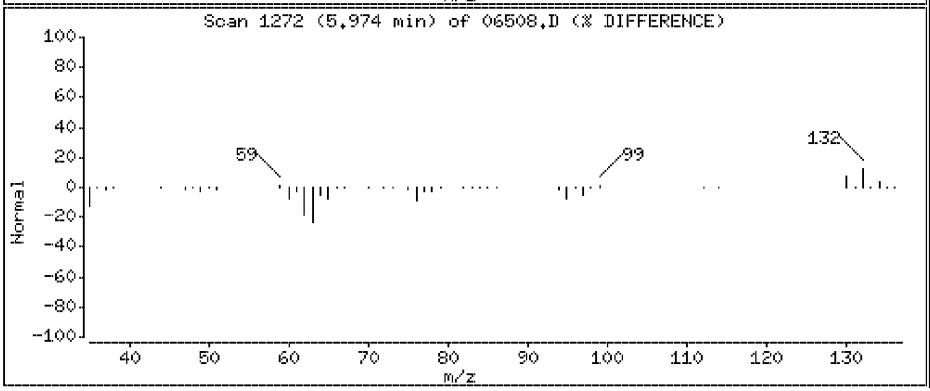
51 Trichloroethene

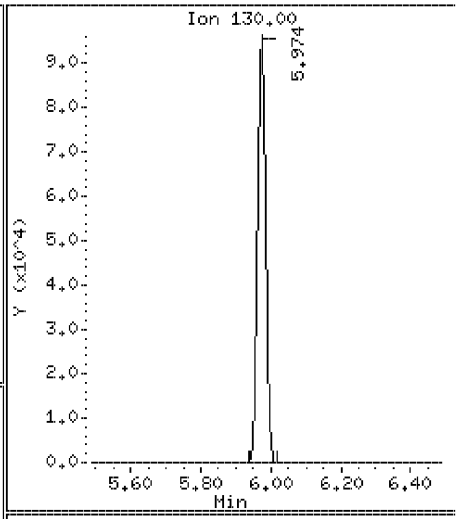
Concentration: 315 ppbv

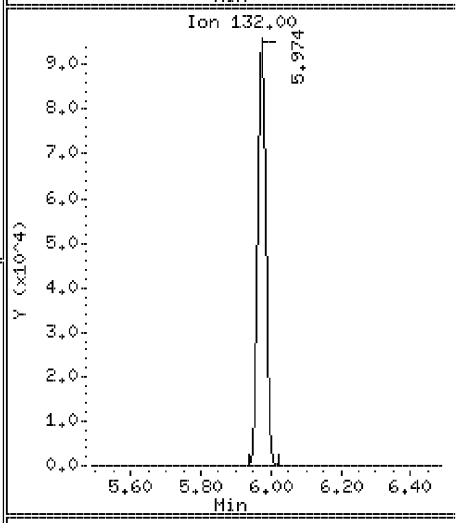


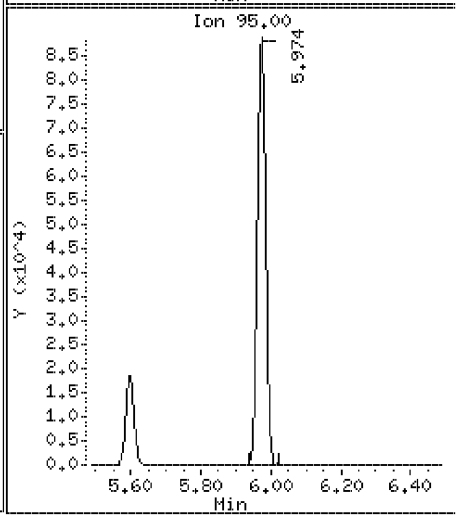












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06508.D
Injection Date: 06-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: 10380193003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_20_20170223 **Lab ID: 10380193003** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/05/17 19:59	1634-04-4	
2-Propanol	**4.2J**	ug/m3	4.8	0.46	1.92		03/05/17 19:59	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/05/17 19:59	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 19:59	79-34-5	
Tetrachloroethene	**98.1**	ug/m3	1.3	0.53	1.92		03/05/17 19:59	127-18-4	
Toluene	**101**	ug/m3	1.5	0.30	1.92		03/05/17 19:59	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/05/17 19:59	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/05/17 19:59	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/05/17 19:59	79-00-5	
Trichloroethene	**982**	ug/m3	1.1	0.53	1.92		03/05/17 19:59	79-01-6	
Trichloroethene	**1720**	ug/m3	21.1	10.6	38.4		03/06/17 12:14	79-01-6	
Trichlorofluoromethane	**1.8J**	ug/m3	2.2	0.25	1.92		03/05/17 19:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	**30.0**	ug/m3	3.1	0.58	1.92		03/05/17 19:59	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.9	0.24	1.92		03/05/17 19:59	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/05/17 19:59	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 19:59	75-01-4	
m&p-Xylene	**9.0**	ug/m3	3.4	1.5	1.92		03/05/17 19:59	179601-23-1	
o-Xylene	**2.1**	ug/m3	1.7	0.67	1.92		03/05/17 19:59	95-47-6	

Sample: VP-NYSDEC-5_30_20170223 **Lab ID: 10380193004** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**30.7**	ug/m3	4.9	1.7	2.01		03/05/17 20:31	67-64-1	
Allyl chloride	**<0.46**	ug/m3	3.2	0.46	2.01		03/05/17 20:31	107-05-1	
Benzene	**<0.25**	ug/m3	0.65	0.25	2.01		03/05/17 20:31	71-43-2	
Bromodichloromethane	**<0.39**	ug/m3	2.7	0.39	2.01		03/05/17 20:31	75-27-4	
Bromoform	**<1.8**	ug/m3	4.2	1.8	2.01		03/05/17 20:31	75-25-2	
Bromomethane	**<0.62**	ug/m3	1.6	0.62	2.01		03/05/17 20:31	74-83-9	
1,3-Butadiene	**<0.35**	ug/m3	0.90	0.35	2.01		03/05/17 20:31	106-99-0	
2-Butanone (MEK)	**3.8J**	ug/m3	6.0	0.46	2.01		03/05/17 20:31	78-93-3	
Carbon disulfide	**<0.20**	ug/m3	1.3	0.20	2.01		03/05/17 20:31	75-15-0	
Carbon tetrachloride	**56.6**	ug/m3	1.3	0.39	2.01		03/05/17 20:31	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		03/05/17 20:31	108-90-7	
Chlorodifluoromethane	**151**	ug/m3	1.4	0.55	2.01		03/05/17 20:31	75-45-6	
Chloroethane	**<0.39**	ug/m3	1.1	0.39	2.01		03/05/17 20:31	75-00-3	
Chloroform	**212**	ug/m3	1.0	0.38	2.01		03/05/17 20:31	67-66-3	
Chloromethane	**<0.22**	ug/m3	0.84	0.22	2.01		03/05/17 20:31	74-87-3	
Chloropentafluoroethane	**<6.5**	ug/m3	6.5	6.5	2.01		03/05/17 20:31	76-15-3	CL
Cyclohexane	**7.4**	ug/m3	1.4	0.64	2.01		03/05/17 20:31	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.9**	ug/m3	9.9	9.9	2.01		03/05/17 20:31	96-12-8	
Dibromochloromethane	**<1.7**	ug/m3	3.5	1.7	2.01		03/05/17 20:31	124-48-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_30_20170223 **Lab ID: 10380193004** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.1	1.6	2.01		03/05/17 20:31	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 20:31	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.5	1.1	2.01		03/05/17 20:31	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 20:31	106-46-7	
Dichlorodifluoromethane	**7.9**	ug/m3	2.0	0.96	2.01		03/05/17 20:31	75-71-8	
1,1-Dichloroethane	**2.4**	ug/m3	1.6	0.32	2.01		03/05/17 20:31	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/m3	0.82	0.41	2.01		03/05/17 20:31	107-06-2	
1,1-Dichloroethene	**5.3**	ug/m3	1.6	0.48	2.01		03/05/17 20:31	75-35-4	
cis-1,2-Dichloroethene	**441**	ug/m3	1.6	0.49	2.01		03/05/17 20:31	156-59-2	
cis-1,2-Dichloroethene	**992**	ug/m3	521	158	643.2		03/06/17 12:42	156-59-2	A3
trans-1,2-Dichloroethene	**39.5**	ug/m3	1.6	0.77	2.01		03/05/17 20:31	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/m3	1.9	0.54	2.01		03/05/17 20:31	78-87-5	
cis-1,3-Dichloropropene	**<0.74**	ug/m3	1.8	0.74	2.01		03/05/17 20:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/m3	1.8	0.52	2.01		03/05/17 20:31	10061-02-6	
Dichlorotetrafluoroethane	**<0.62**	ug/m3	2.9	0.62	2.01		03/05/17 20:31	76-14-2	
Freon 123	**<6.4**	ug/m3	6.4	6.4	2.01		03/05/17 20:31	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.71**	ug/m3	7.4	0.71	2.01		03/05/17 20:31	123-91-1	
Ethylbenzene	**15.9**	ug/m3	1.8	0.85	2.01		03/05/17 20:31	100-41-4	
4-Ethyltoluene	**1.6J**	ug/m3	2.0	0.38	2.01		03/05/17 20:31	622-96-8	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	4.4	1.3	2.01		03/05/17 20:31	87-68-3	
n-Hexane	**2.3**	ug/m3	1.4	0.72	2.01		03/05/17 20:31	110-54-3	
2-Hexanone	**<0.82**	ug/m3	8.4	0.82	2.01		03/05/17 20:31	591-78-6	
Isopropylbenzene (Cumene)	**<0.28**	ug/m3	5.0	0.28	2.01		03/05/17 20:31	98-82-8	
Methyl acetate	**17.9**	ug/m3	3.1	3.1	2.01		03/05/17 20:31	79-20-9	
Methylcyclohexane	**3.6**	ug/m3	1.6	0.49	2.01		03/05/17 20:31	108-87-2	
Methylene Chloride	**149**	ug/m3	7.1	1.1	2.01		03/05/17 20:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.44**	ug/m3	8.4	0.44	2.01		03/05/17 20:31	108-10-1	
Methyl-tert-butyl ether	**<0.61**	ug/m3	7.4	0.61	2.01		03/05/17 20:31	1634-04-4	
2-Propanol	**5.3**	ug/m3	5.0	0.48	2.01		03/05/17 20:31	67-63-0	
Styrene	**1.1J**	ug/m3	1.7	0.39	2.01		03/05/17 20:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	1.4	0.66	2.01		03/05/17 20:31	79-34-5	
Tetrachloroethene	**2060**	ug/m3	1.4	0.56	2.01		03/05/17 20:31	127-18-4	
Tetrachloroethene	**8450**	ug/m3	443	179	643.2		03/06/17 12:42	127-18-4	A3
Toluene	**31.1**	ug/m3	1.5	0.31	2.01		03/05/17 20:31	108-88-3	
1,2,4-Trichlorobenzene	**<1.8**	ug/m3	7.6	1.8	2.01		03/05/17 20:31	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	2.2	0.50	2.01		03/05/17 20:31	71-55-6	
1,1,2-Trichloroethane	**4.2**	ug/m3	1.1	0.49	2.01		03/05/17 20:31	79-00-5	
Trichloroethene	**6840**	ug/m3	1.1	0.55	2.01		03/05/17 20:31	79-01-6	
Trichloroethene	**100000**	ug/m3	354	178	643.2		03/06/17 12:42	79-01-6	A3
Trichlorofluoromethane	**39.9**	ug/m3	2.3	0.27	2.01		03/05/17 20:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	**4470**	ug/m3	3.2	0.61	2.01		03/05/17 20:31	76-13-1	
1,1,2-Trichlorotrifluoroethane	**26500**	ug/m3	1030	194	643.2		03/06/17 12:42	76-13-1	A3
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	2.0	0.25	2.01		03/05/17 20:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.37**	ug/m3	2.0	0.37	2.01		03/05/17 20:31	108-67-8	
Vinyl chloride	**<0.39**	ug/m3	0.52	0.39	2.01		03/05/17 20:31	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D
Report Date: 07-Mar-2017 14:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06423.D
Lab Smp Id: 10380193004
Inj Date : 05-MAR-2017 20:31
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 23
Dil Factor: 2.01000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.010	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.025	2.979	(0.537)	69302	9.37427	18.8(Q)	
3	Chlorodifluoromethane	67	3.031	2.989	(0.538)	73704	20.8457	41.9(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.021	(0.543)	30598	0.78151	1.57(M)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.542	(0.629)	141954	30.6373	61.6	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.587	3.578	(0.637)	29133	2.18770	4.40(M)	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.664	3.655	(0.650)	120036	3.47216	6.98	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.738	3.713	(0.663)	126384	6.31681	12.7	
19	Isopropyl Alcohol	45	3.764	3.764	(0.668)	21374	1.04749	2.11(Q)	
20	1,1-Dichloroethene	61	3.906	3.896	(0.693)	13186	0.65583	1.32	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.983	3.934	(0.707)	7447960	285.294	573(A)	
23	Methyl Acetate	43	3.983	3.951	(0.707)	88066	2.89104	5.81(Q)	

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D
Report Date: 07-Mar-2017 14:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.983	3.951	(0.707)	71754	2.73549	5.50(Q)	
	25 Methylene chloride	49	3.979	3.992	(0.706)	295809	20.9474	42.1(Q)	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.272	4.269	(0.758)	55005	4.87587	9.80	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	4.417	4.407	(0.784)	6317	0.28748	0.578	
$	32 Hexane-d14(S)	66	4.513	4.481	(0.801)	353149	8.80257	8.80	
	33 Methyl Ethyl Ketone	72	4.594	4.552	(0.815)	3388	0.63705	1.28(QMH)	
	34 n-Hexane	57	4.610	4.578	(0.818)	6300	0.31330	0.630(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.725	4.722	(0.839)	685740	54.4060	109(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.841	4.838	(0.859)	554779	21.2364	42.7	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	5.494	5.484	(0.975)	135270	4.40408	8.85	
	45 Cyclohexane	56	5.504	5.484	(0.977)	21467	1.05447	2.12(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.635	5.610	(1.000)	1260991	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.950	5.889	(1.056)	2999	0.13198	0.265(MH)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.047	5.986	(1.073)	13203261	623.177	1250(AM)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	6.468	6.430	(1.148)	4933	0.43778	0.880(QH)	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.102	7.076	(1.260)	1021965	9.05498	9.05	
	60 1,1,2-Trichloroethane	97	7.166	7.143	(1.272)	6433	0.38037	0.765(Q)	
	61 Toluene	91	7.176	7.153	(1.273)	205473	4.03446	8.11	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.594	7.584	(0.877)	6670	0.24432	0.491(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.018	7.986	(0.926)	4120158	148.660	299(A)	
*	67 Chlorobenzene - d5	117	8.658	8.645	(1.000)	798160	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.944	8.934	(1.033)	105153	1.79121	3.60	
	70 m&p-Xylene	91	9.085	9.082	(1.049)	306861	6.65979	13.4	
	71 n-Nonane	43	9.478	9.468	(1.095)	4634	0.19499	0.392(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.510	9.507	(1.098)	2084	0.12878	0.259	
	74 o-Xylene	91	9.587	9.581	(1.107)	72230	1.54086	3.10	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D
Report Date: 07-Mar-2017 14:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)		
78	4-Ethyltoluene	105	10.908	10.912	(1.260)	4418	0.16230	0.326	(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.							(D)
80	n-Decane	57	11.397	11.378	(2.022)	16244	0.72930	1.47	(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.							
82	1,2,4-Trimethylbenzene	105	11.510	11.513	(1.329)	7711	0.16263	0.327		
83	1,3-Dichlorobenzene	146	Compound Not Detected.							
84	Sec- Butylbenzene	105	Compound Not Detected.							
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.369)	465824	10.5946	10.6		
86	Benzyl Chloride	91	Compound Not Detected.							
87	1,4-Dichlorobenzene	146	Compound Not Detected.							(D)
88	p-Isopropyltoluene	119	Compound Not Detected.							(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.							(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.							
91	N-Butylbenzene	91	Compound Not Detected.							(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.							
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.							
94	Naphthalene	128	14.172	14.169	(1.637)	9592	0.62815	1.26		
95	Hexachlorobutadiene	225	Compound Not Detected.							

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D
Report Date: 07-Mar-2017 14:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06423.D
Lab Smp Id: 10380193004
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

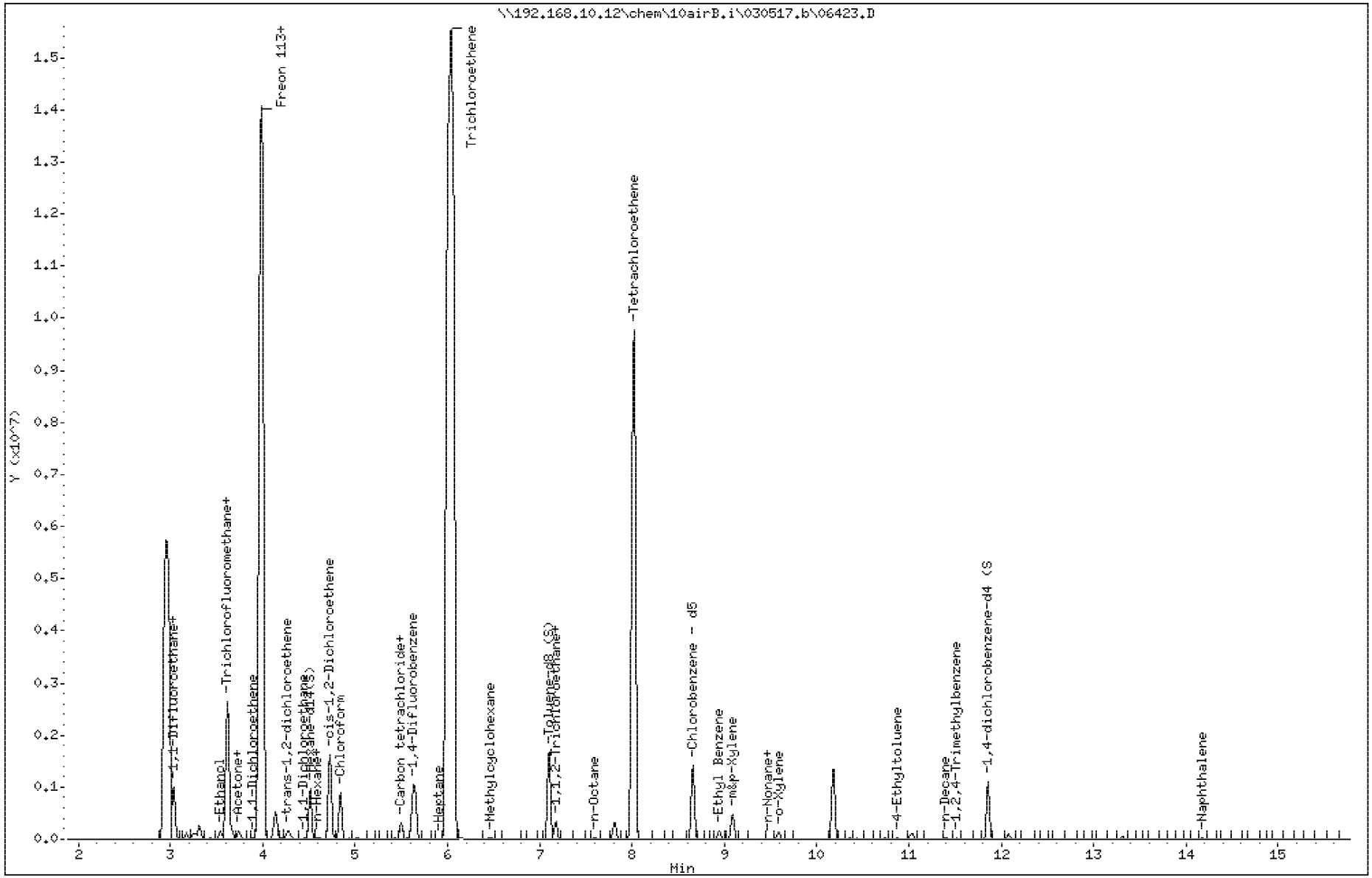
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1260991	-10.83
67 Chlorobenzene - d	951026	570616	1331436	798160	-16.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.64	0.46
67 Chlorobenzene - d	8.65	8.32	8.98	8.66	0.15

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D
Date : 05-MAR-2017 20:31
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

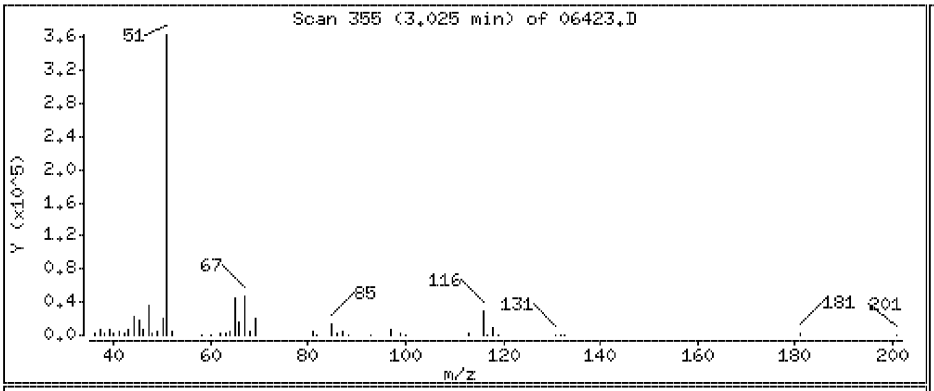
Operator: NCK

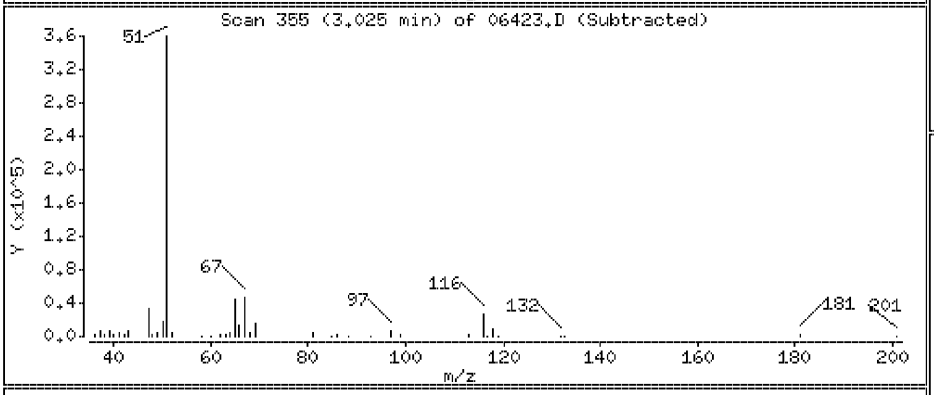
Column phase: J&W DB-5

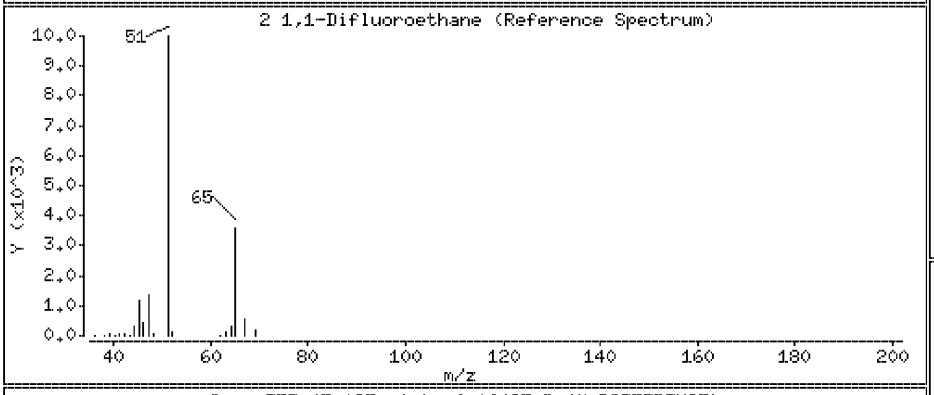
Column diameter: 0.32

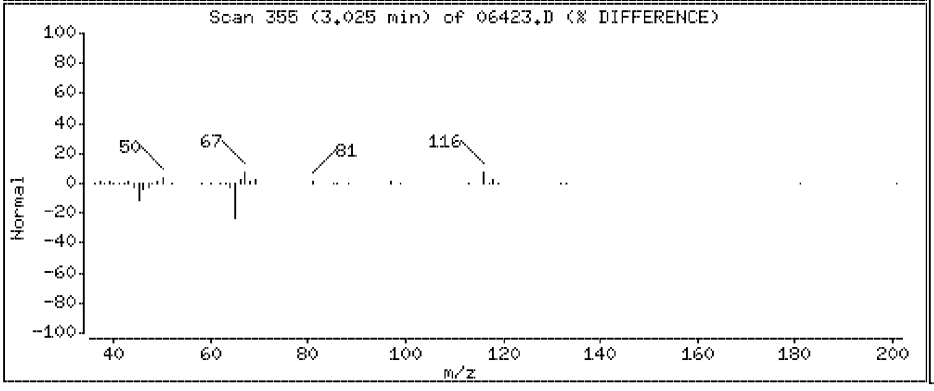
2 1,1-Difluoroethane

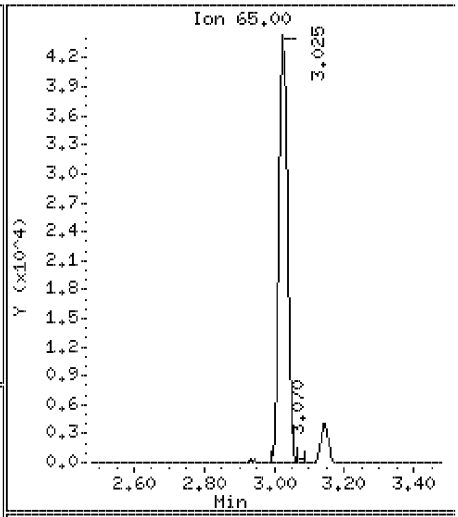
Concentration: 18.8 ppbv

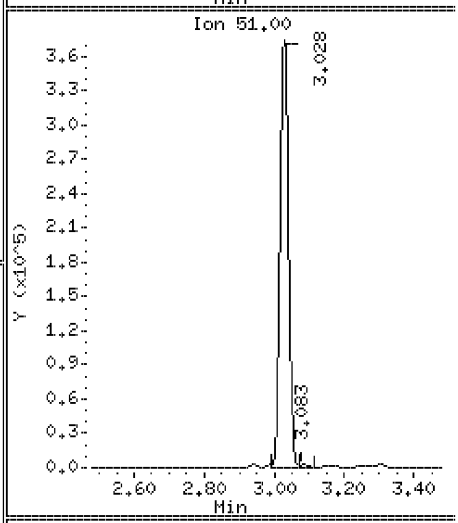


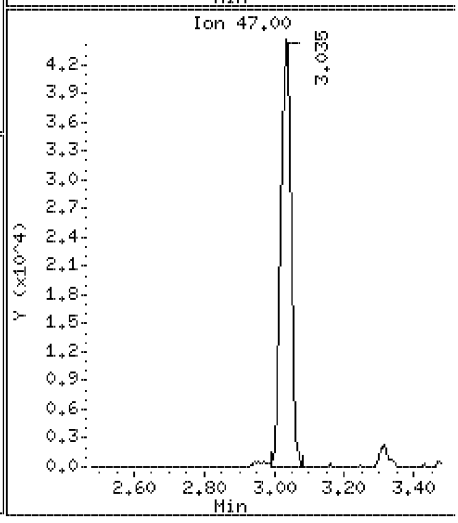












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

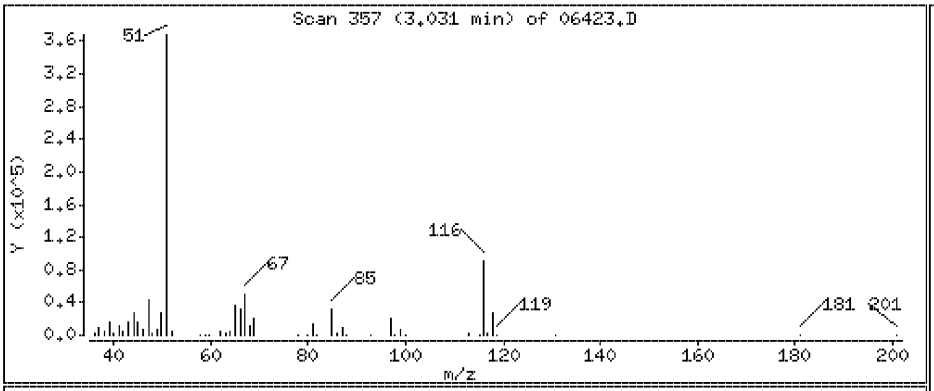
Operator: NCK

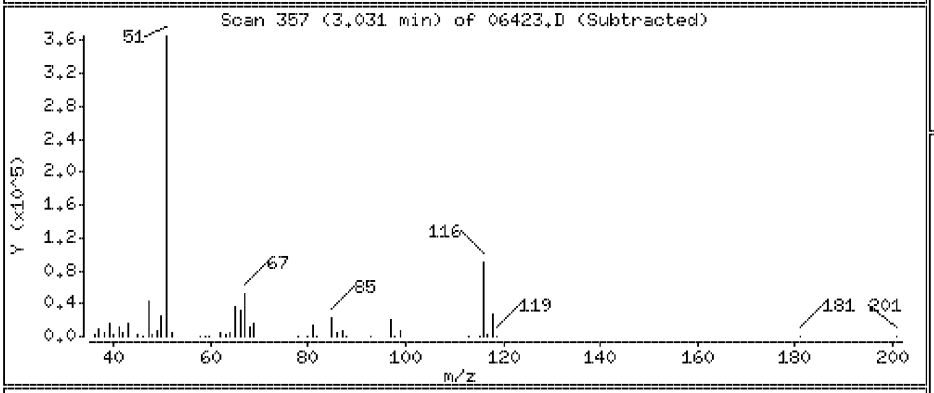
Column phase: J&W DB-5

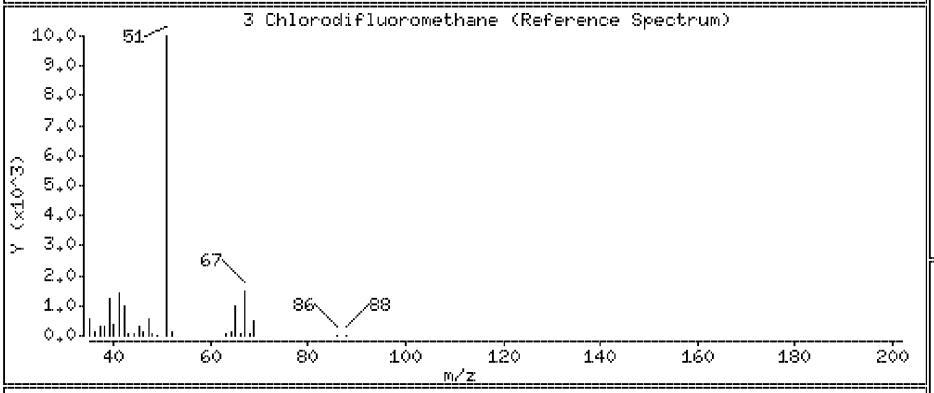
Column diameter: 0.32

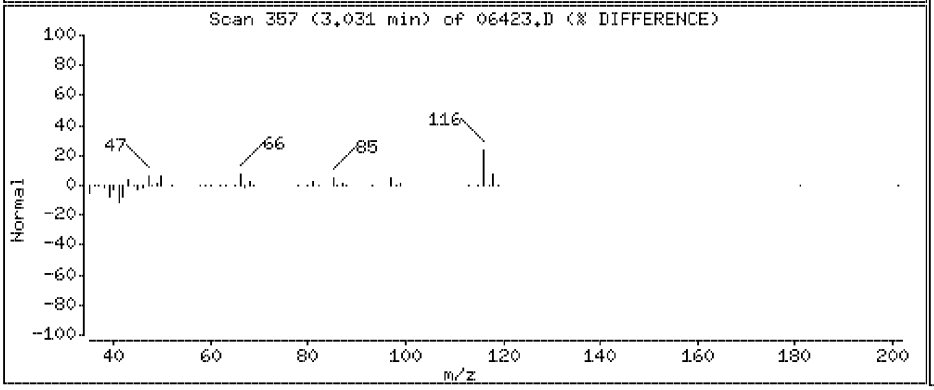
3 Chlorodifluoromethane

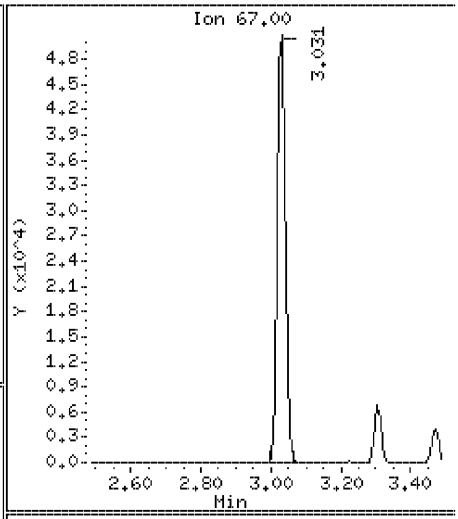
Concentration: 41.9 ppbv

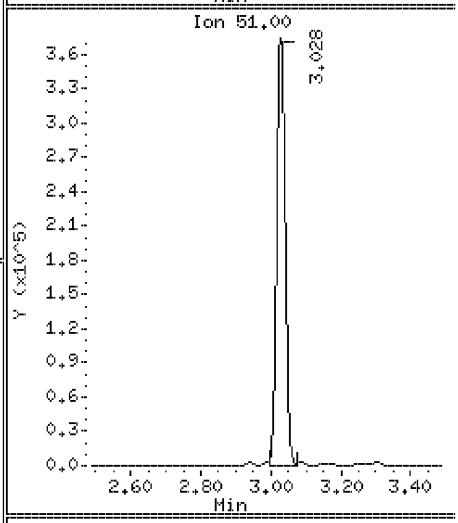


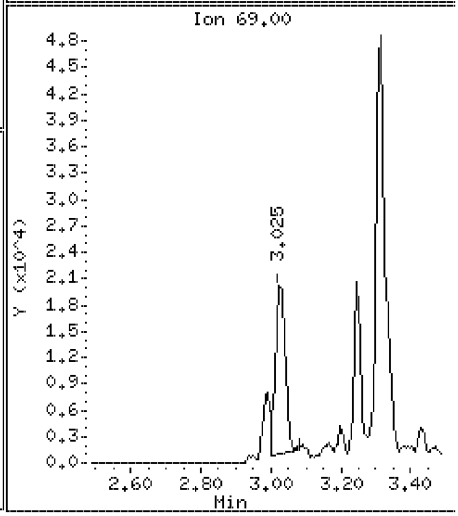












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

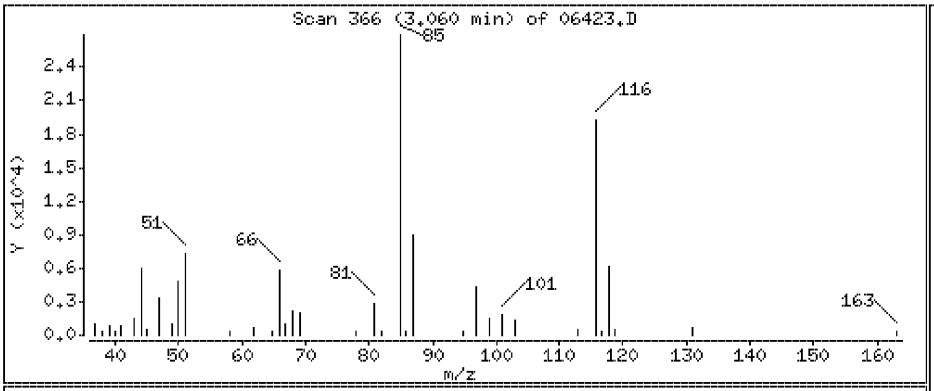
Operator: NCK

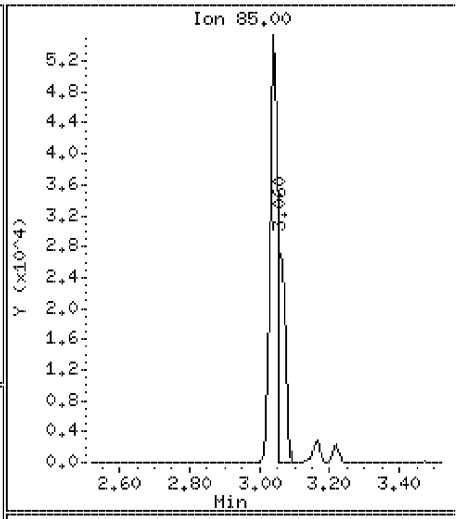
Column phase: J&W DB-5

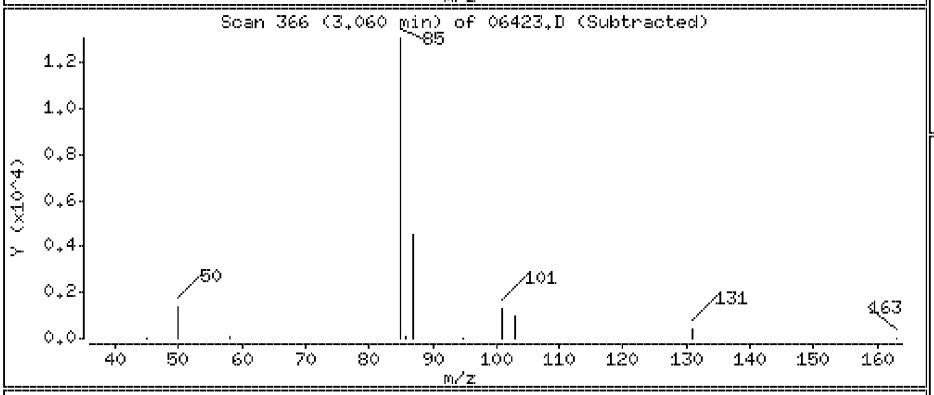
Column diameter: 0.32

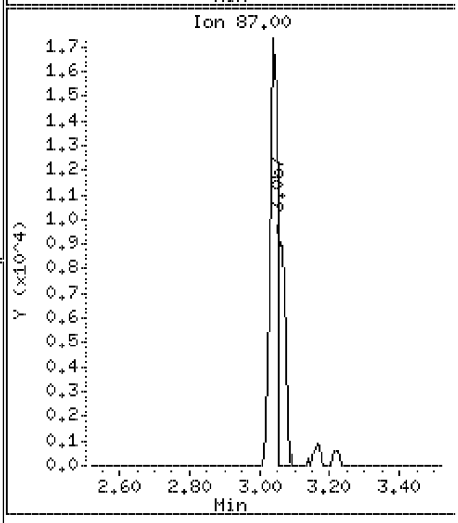
5 Dichlorodifluoromethane

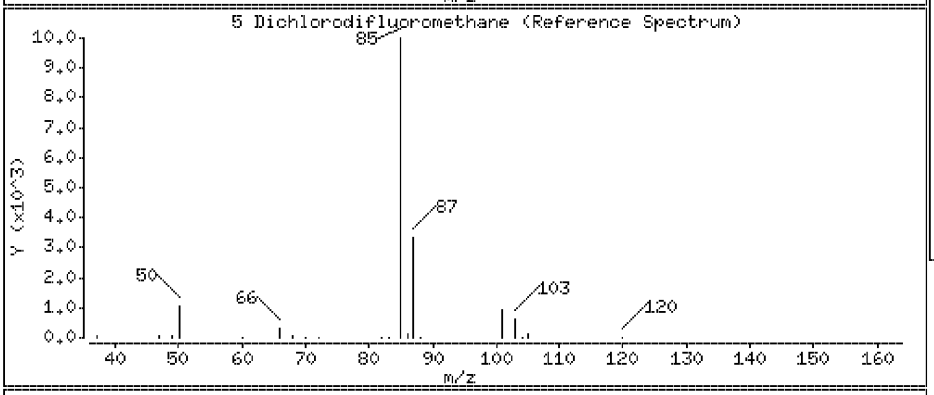
Concentration: 1.57 ppbv

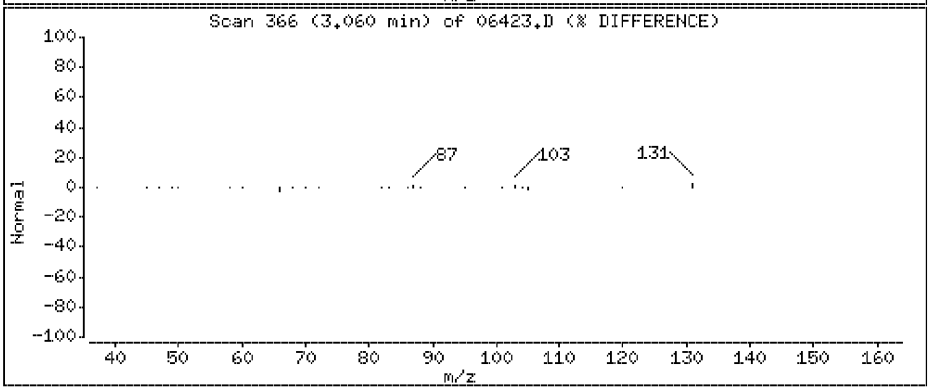












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

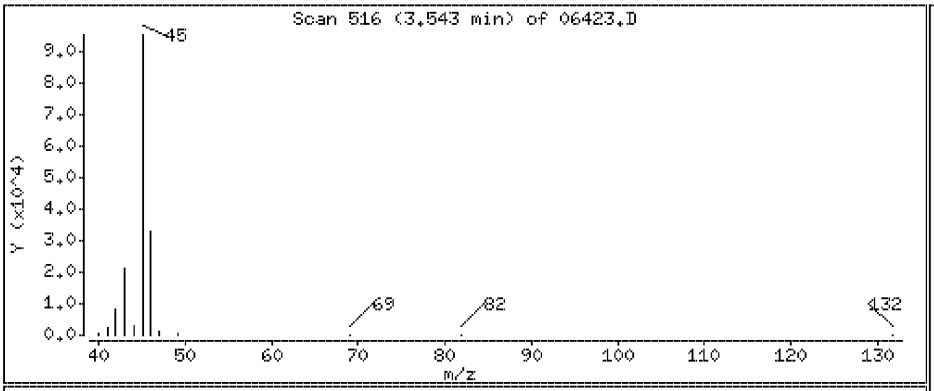
Operator: NCK

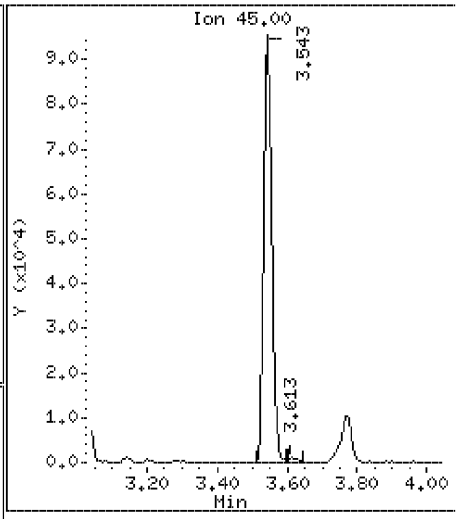
Column phase: J&W DB-5

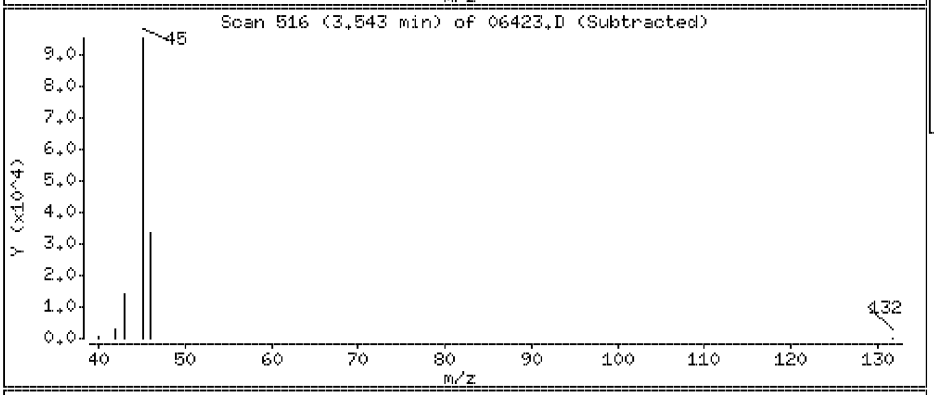
Column diameter: 0.32

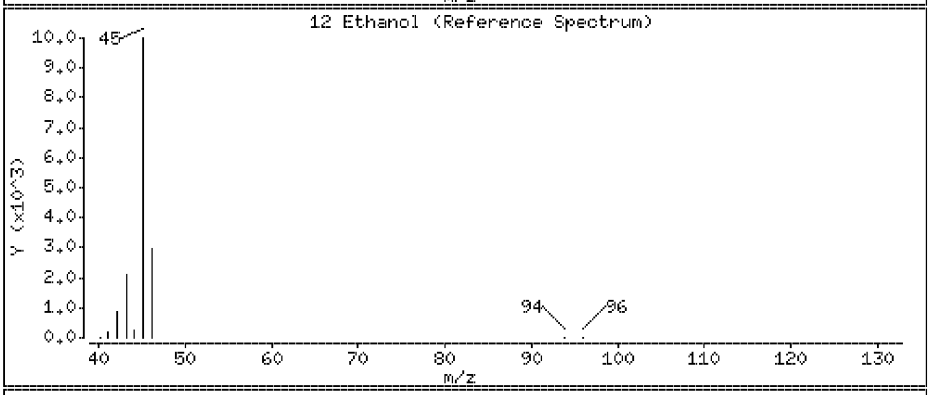
12 Ethanol

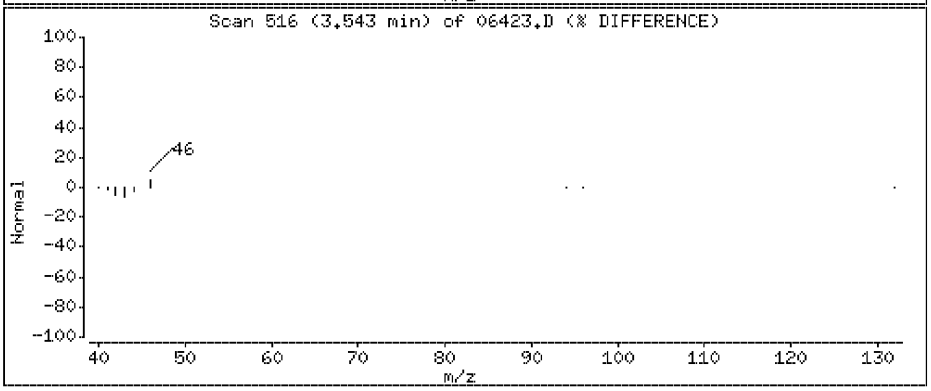
Concentration: 61.6 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

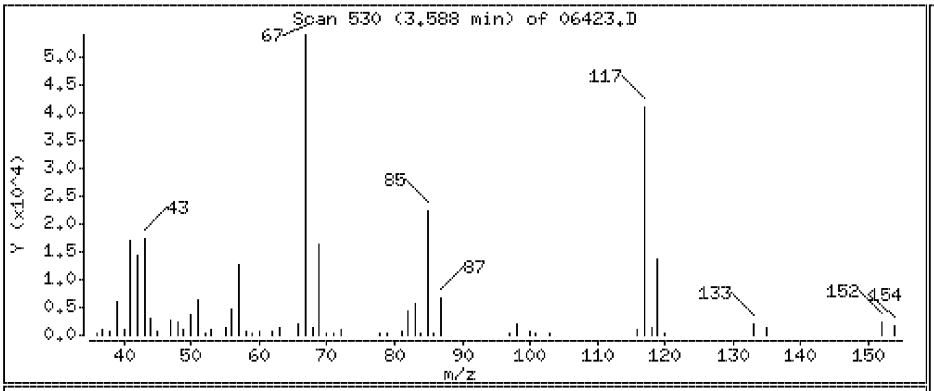
Operator: NCK

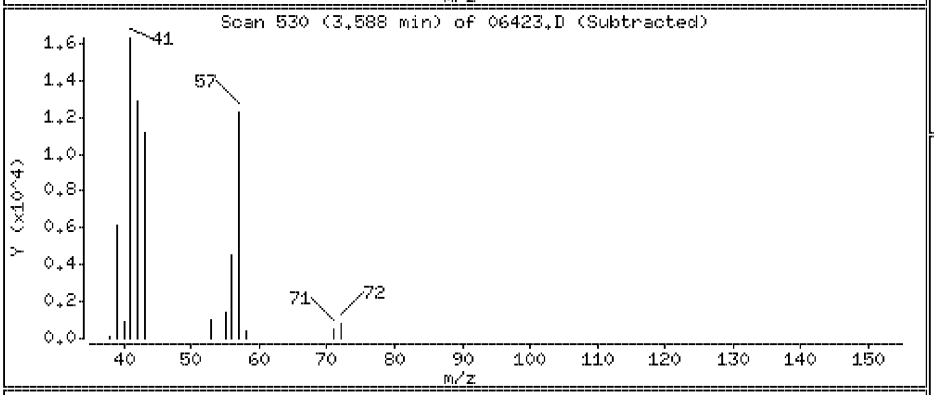
Column phase: J&W DB-5

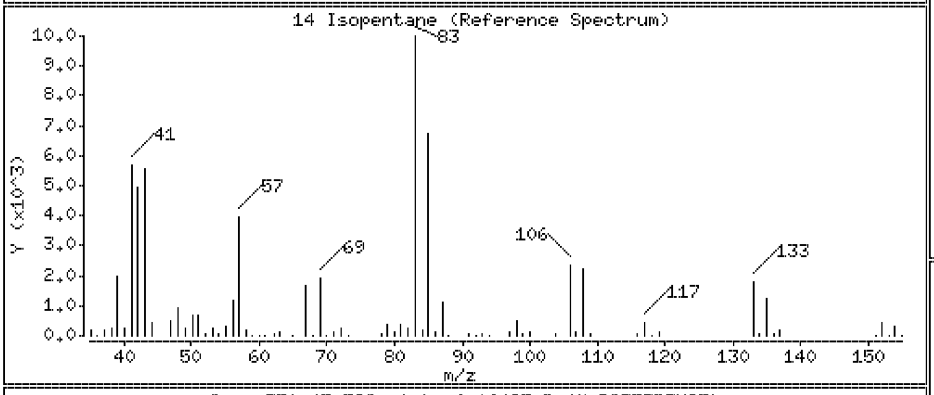
Column diameter: 0.32

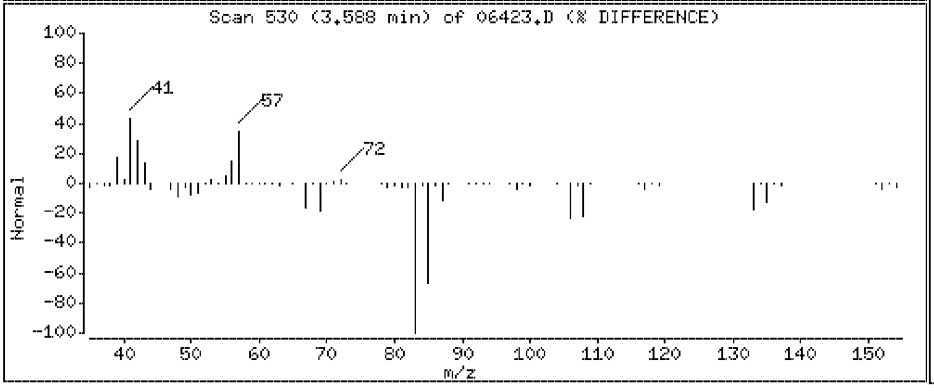
14 Isopentane

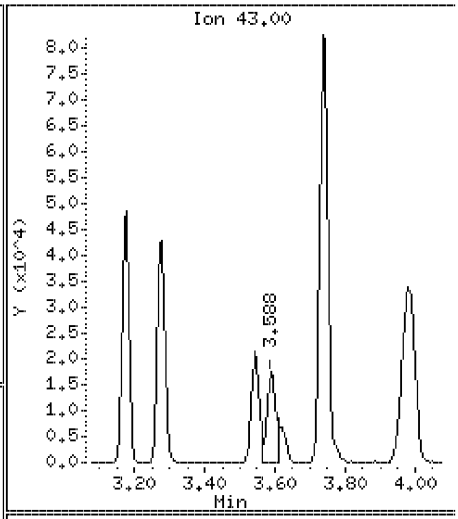
Concentration: 4.40 ppbv

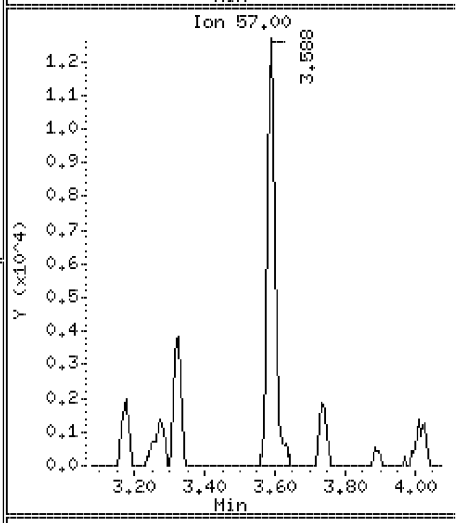


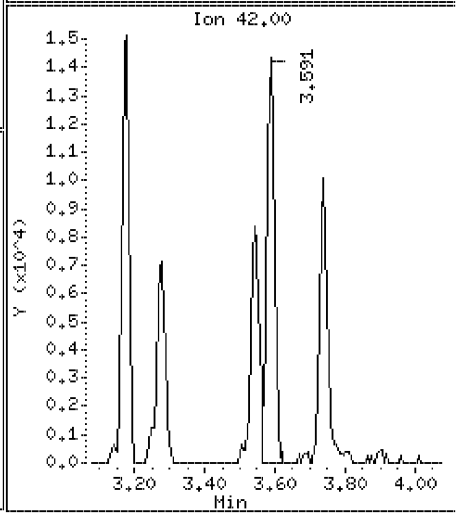












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

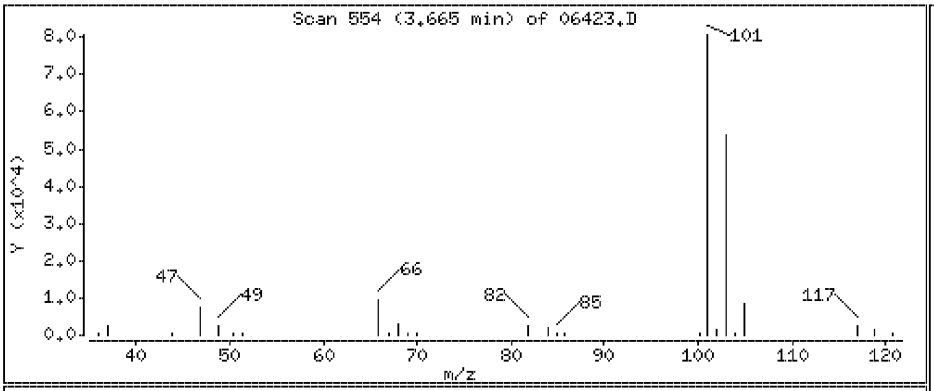
Operator: NCK

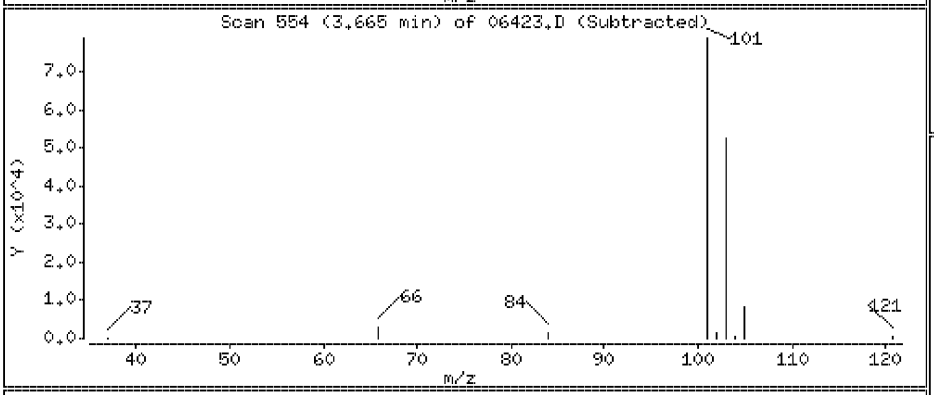
Column phase: J&W DB-5

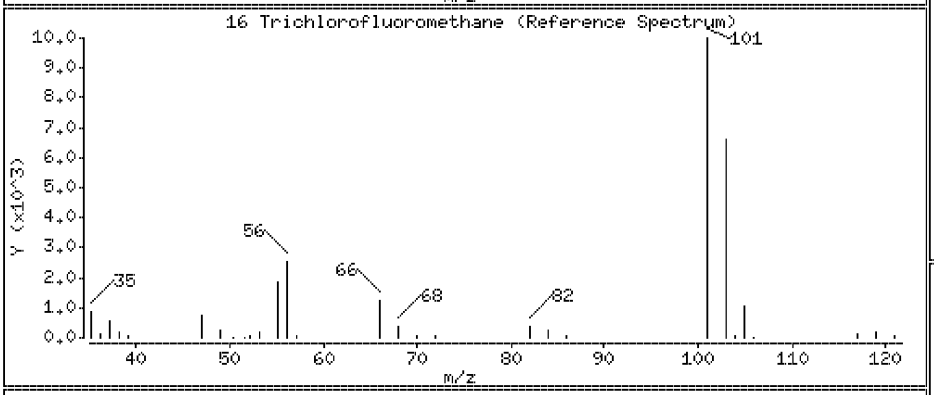
Column diameter: 0.32

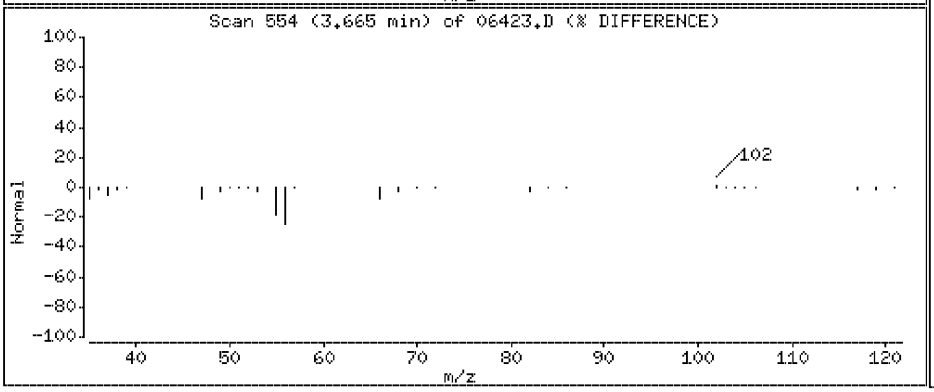
16 Trichlorofluoromethane

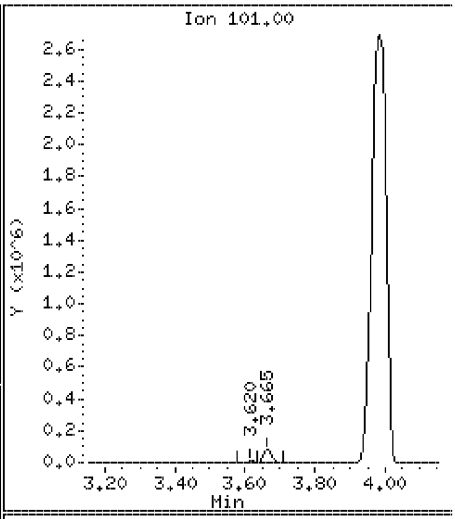
Concentration: 6.98 ppbv

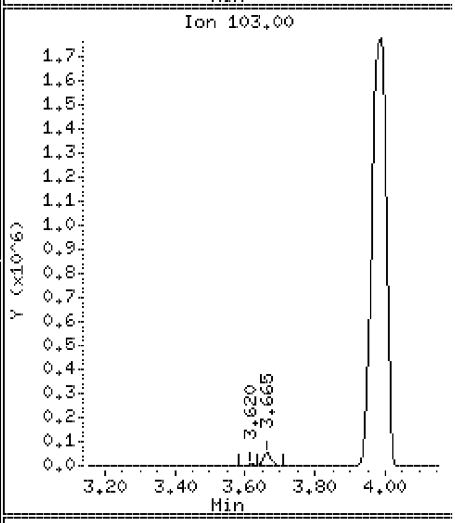


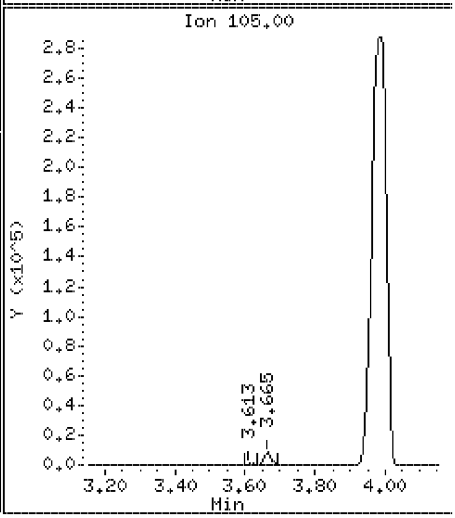












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

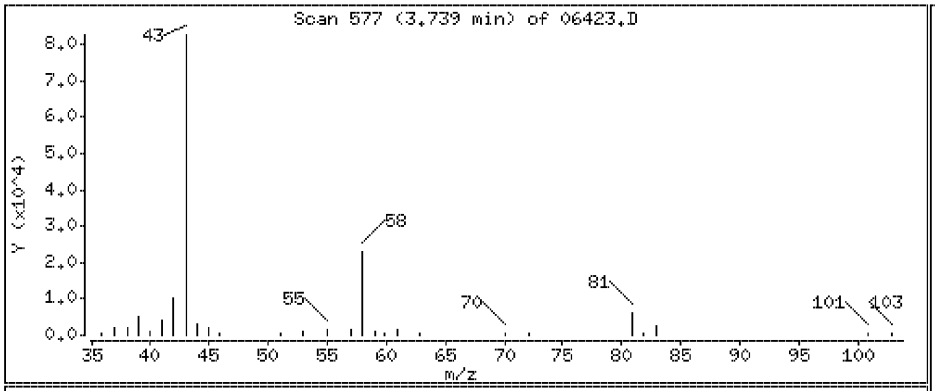
Operator: NCK

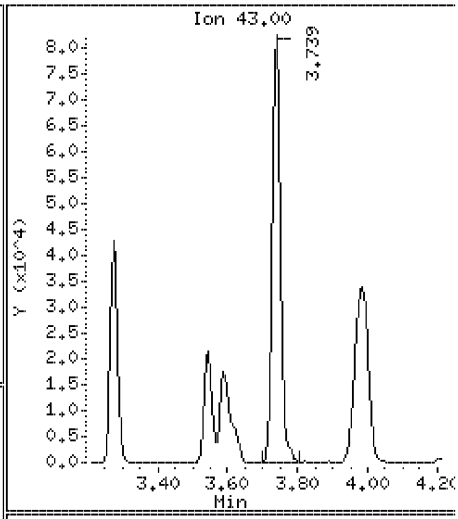
Column phase: J&W DB-5

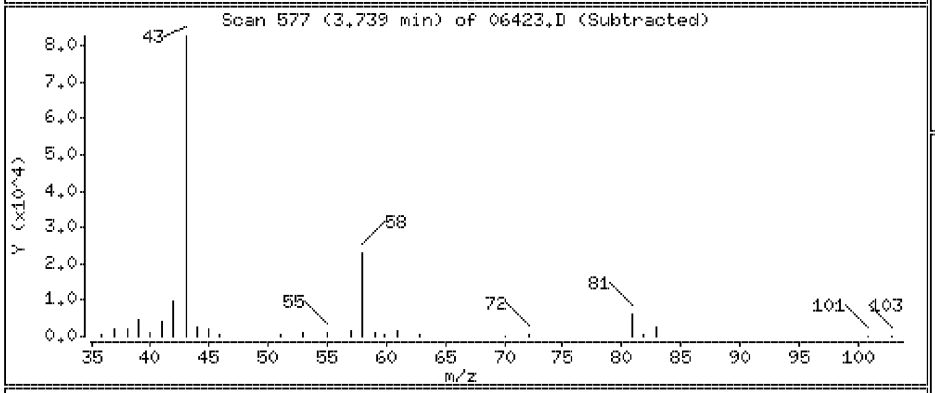
Column diameter: 0.32

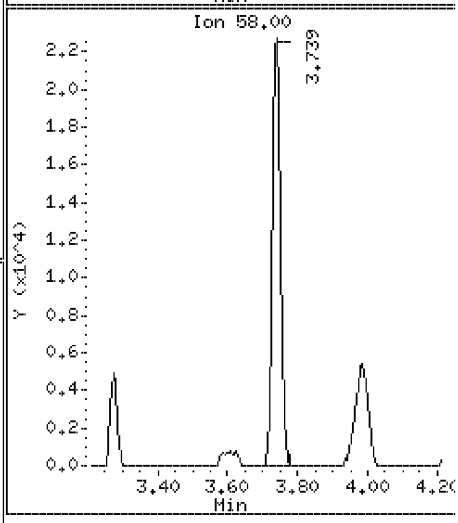
18 Acetone

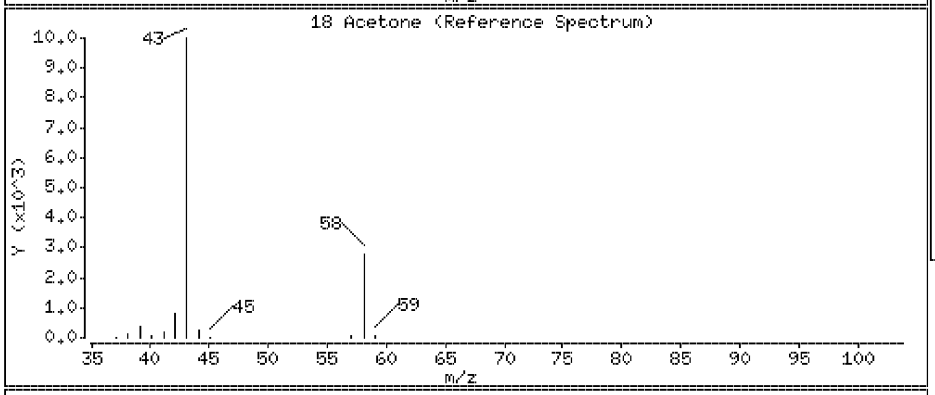
Concentration: 12.7 ppbv

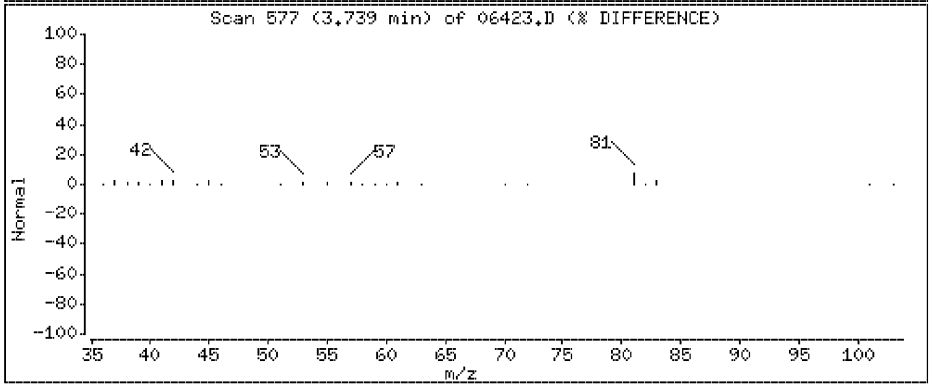












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

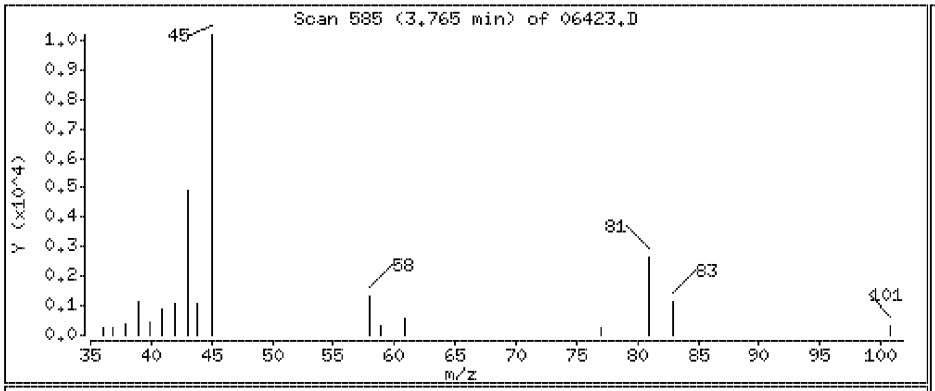
Operator: NCK

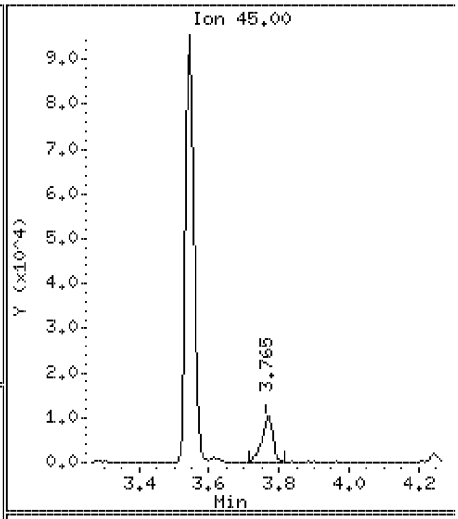
Column phase: J&W DB-5

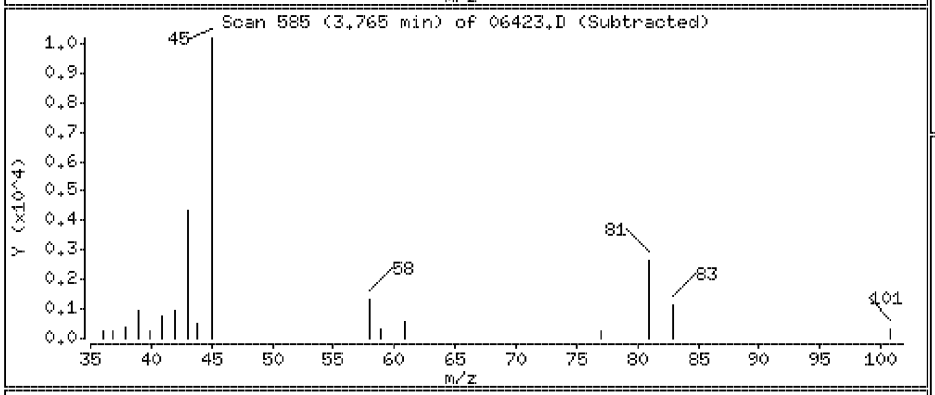
Column diameter: 0.32

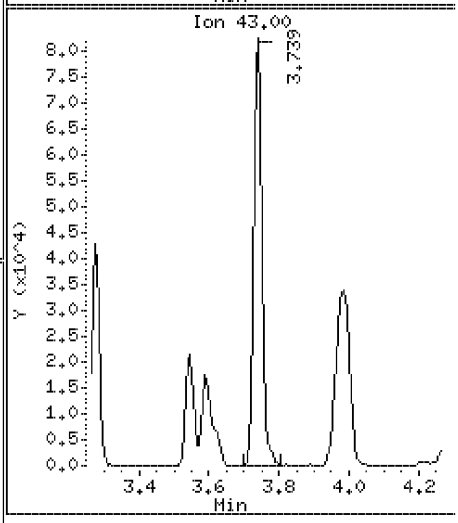
19 Isopropyl Alcohol

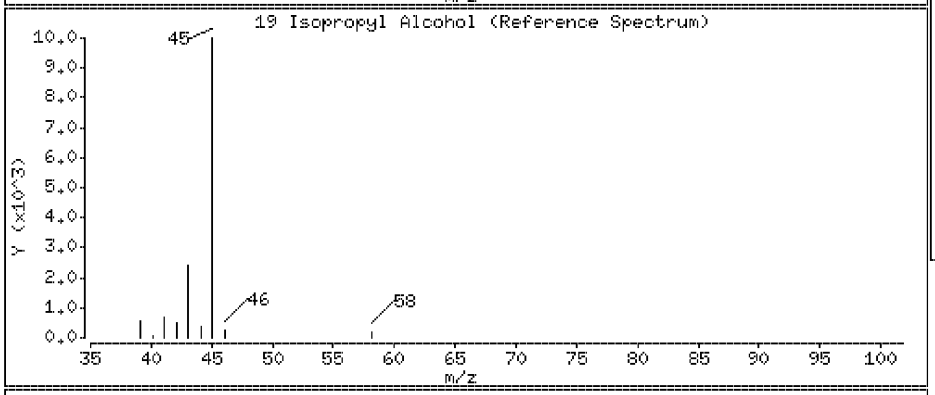
Concentration: 2.11 ppbv

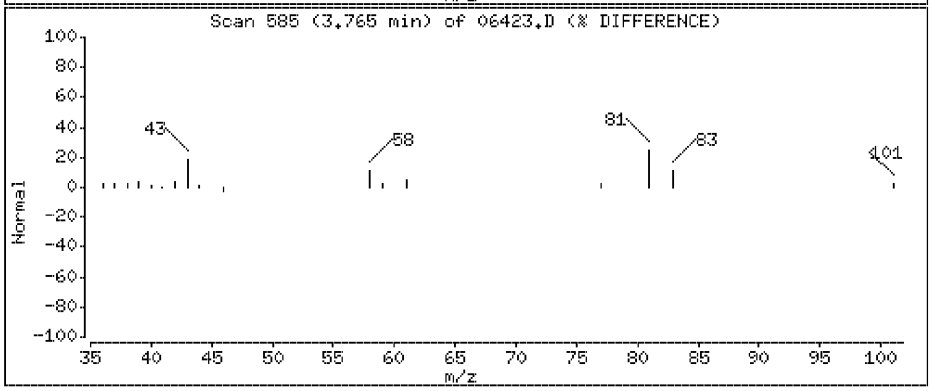












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

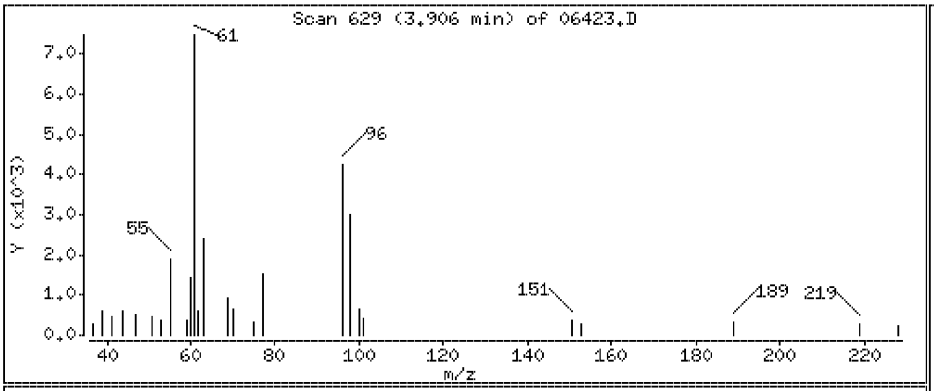
Operator: NCK

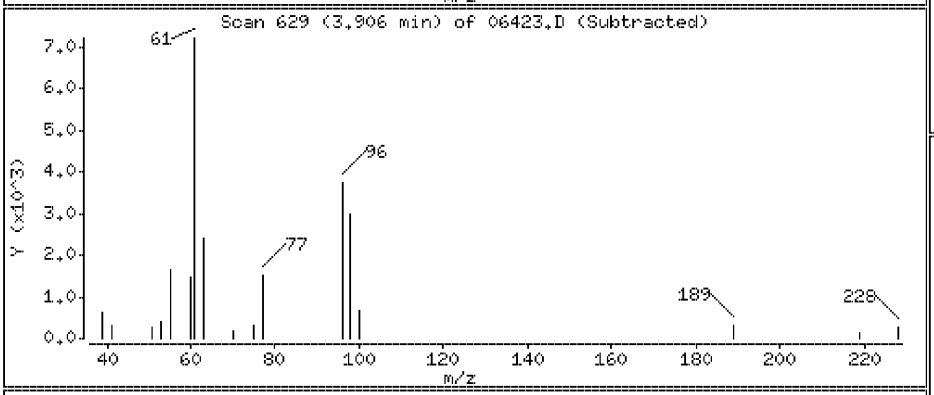
Column phase: J&W DB-5

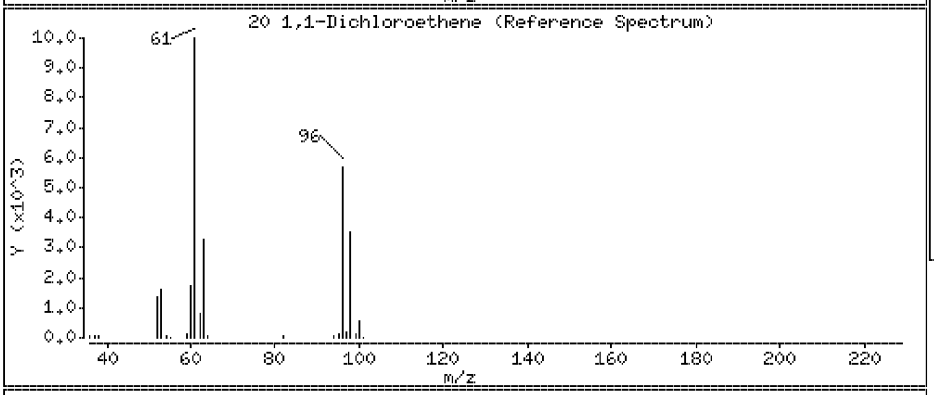
Column diameter: 0.32

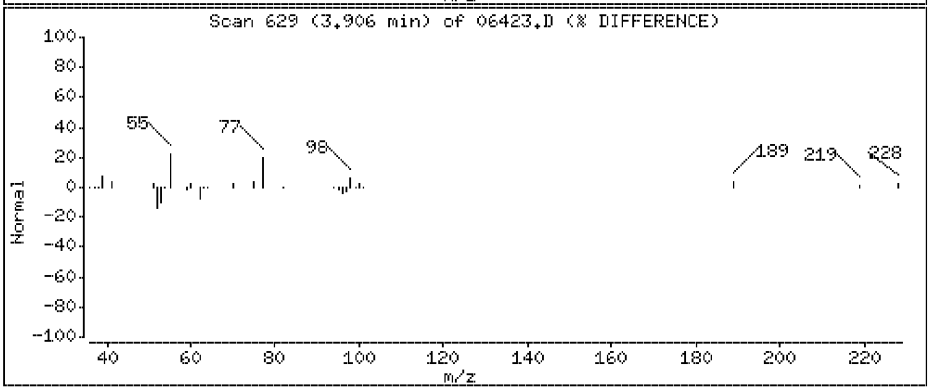
20 1,1-Dichloroethene

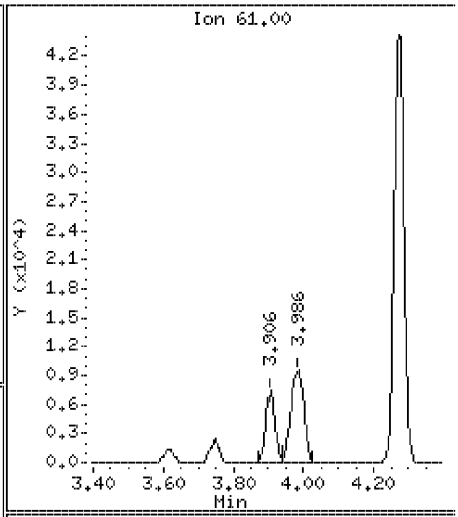
Concentration: 1.32 ppbv

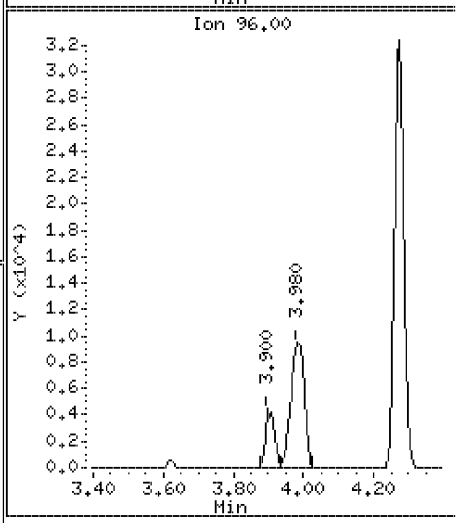












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

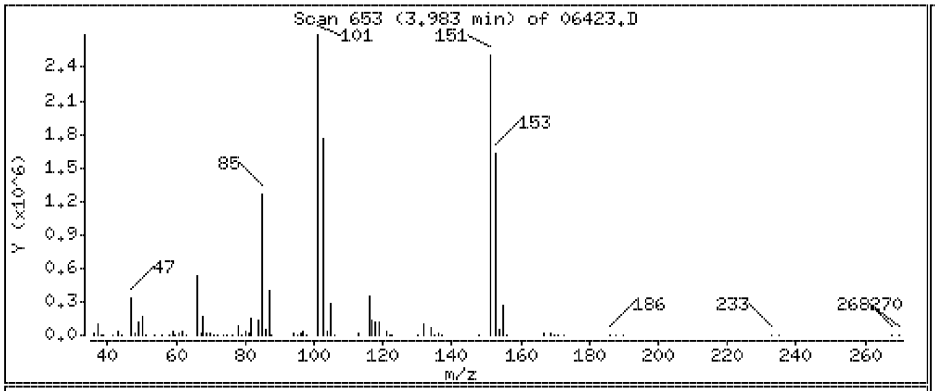
Operator: NCK

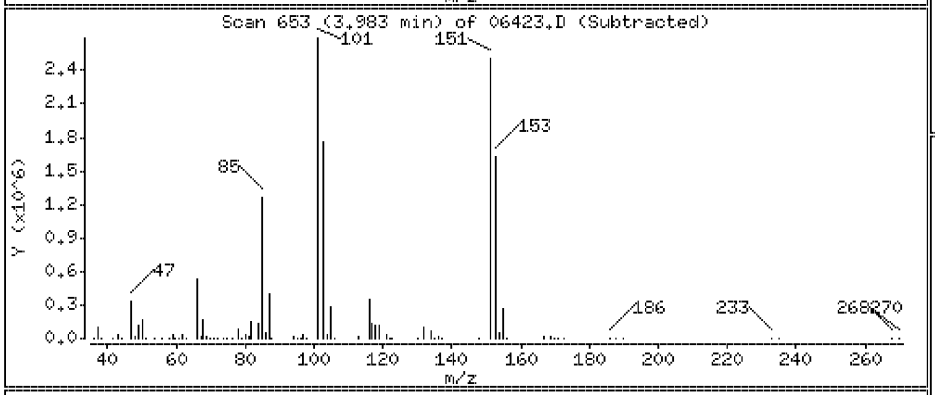
Column phase: J&W DB-5

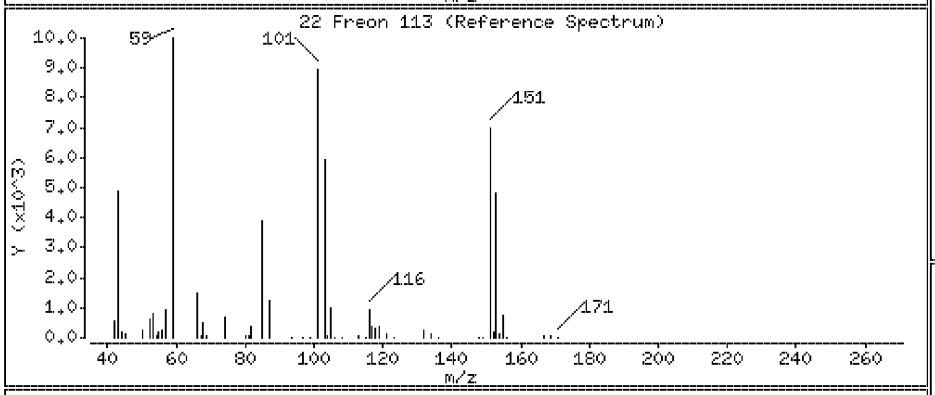
Column diameter: 0.32

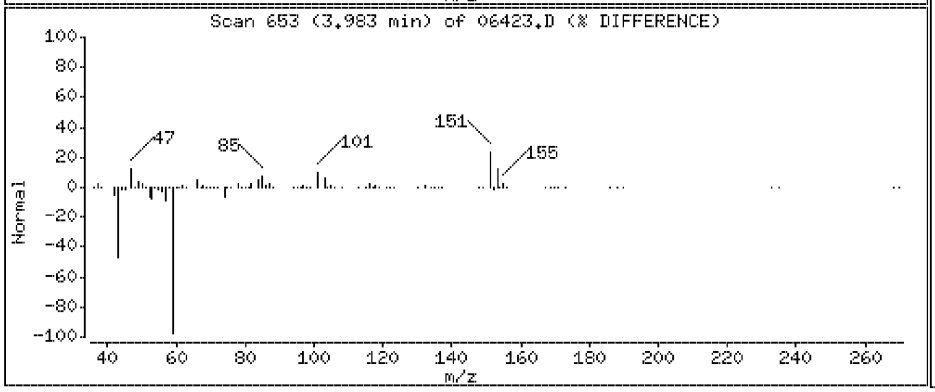
22 Freon 113

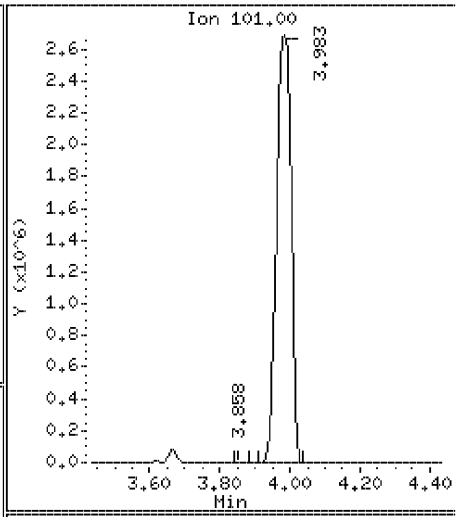
Concentration: 573 ppbv

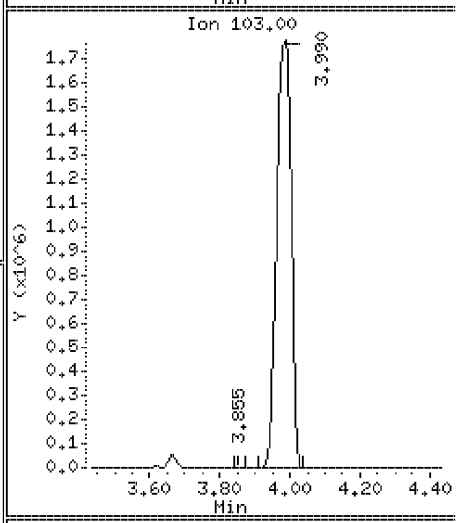


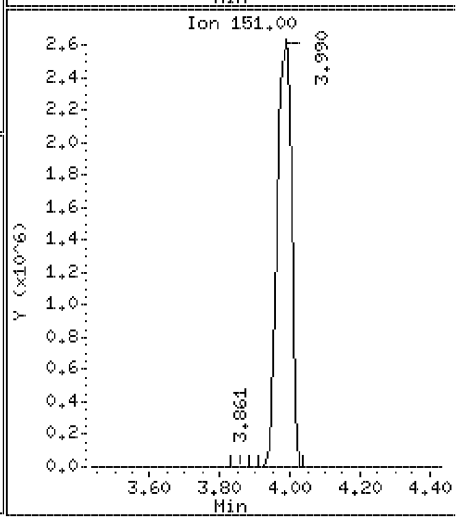












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

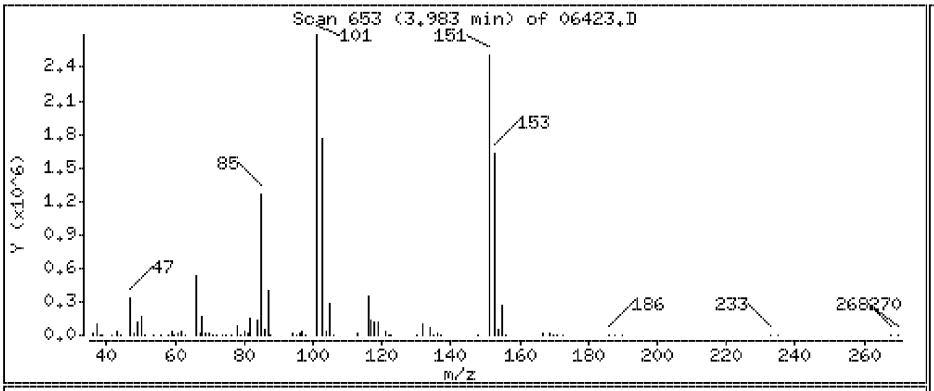
Operator: NCK

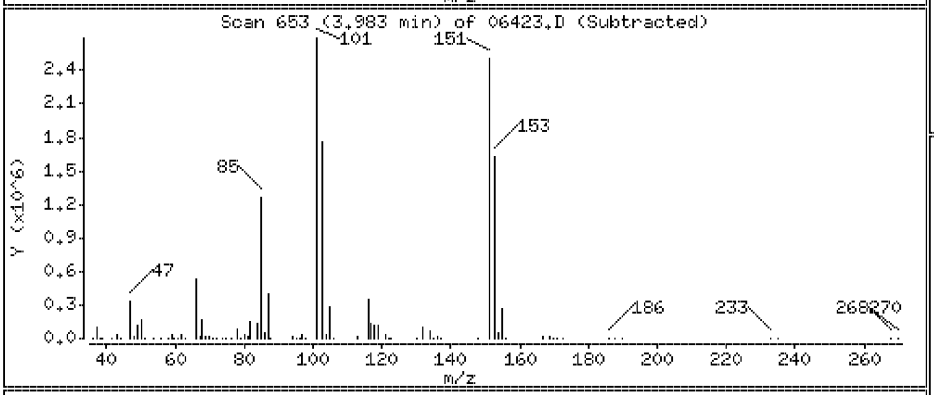
Column phase: J&W DB-5

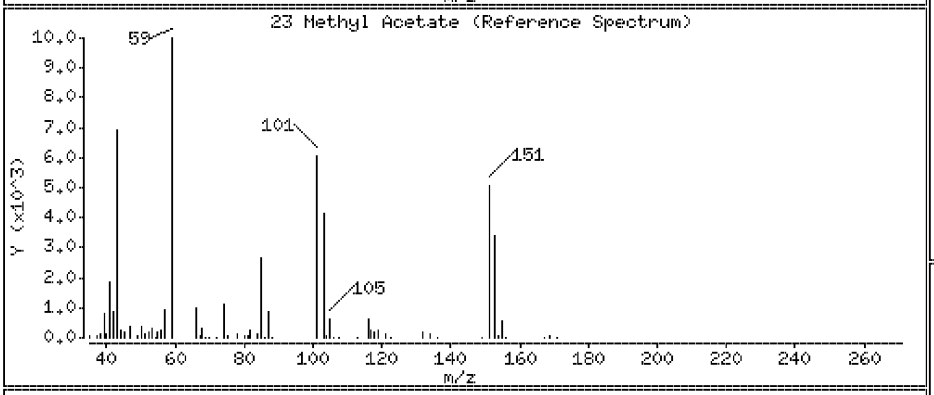
Column diameter: 0.32

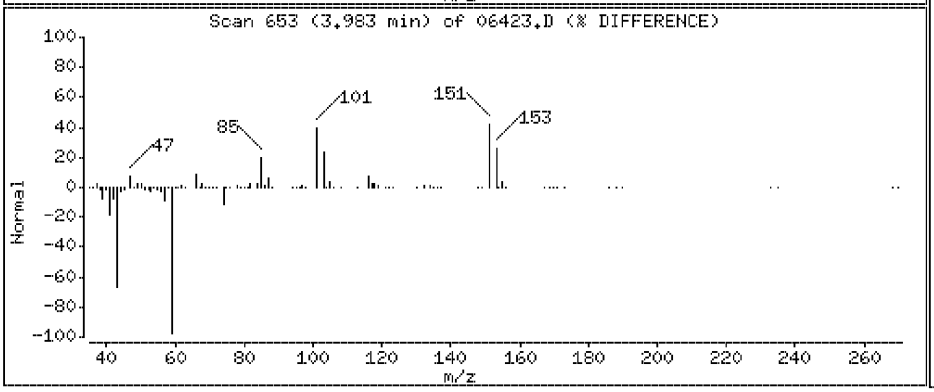
23 Methyl Acetate

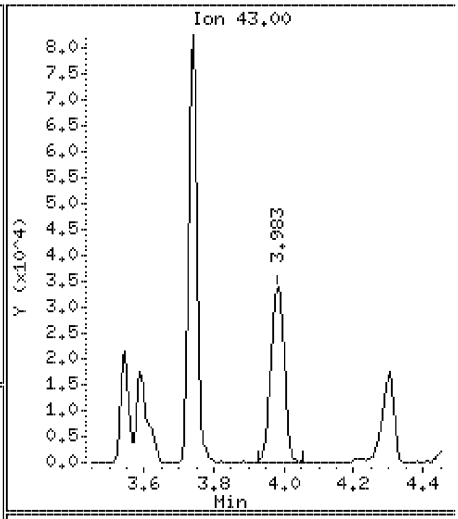
Concentration: 5.81 ppbv

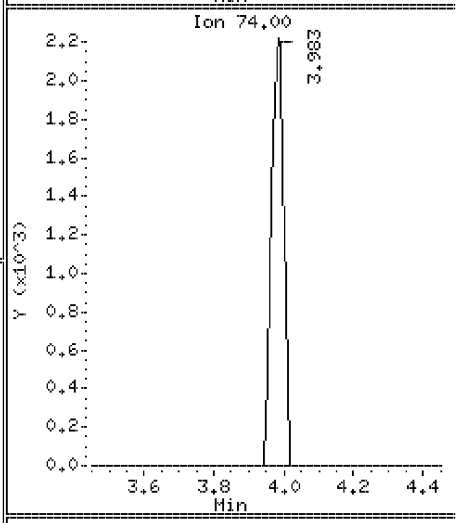


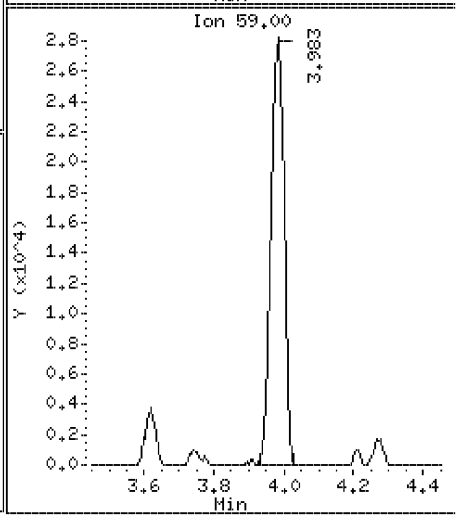












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

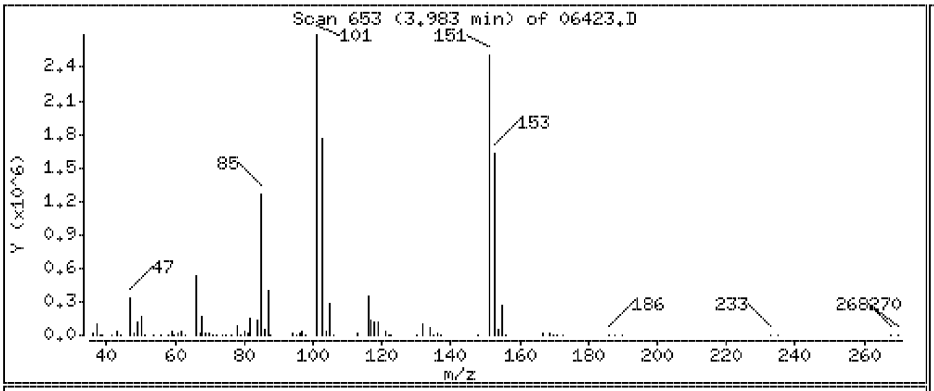
Operator: NCK

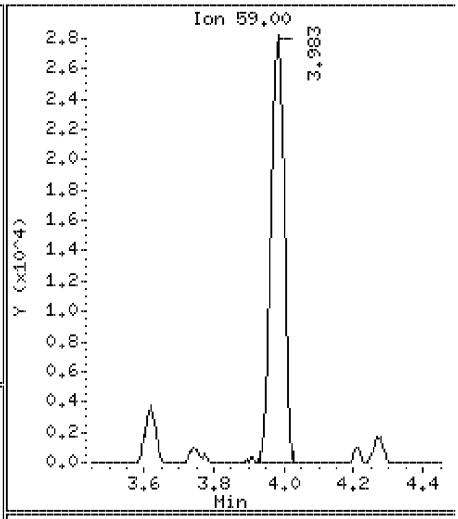
Column phase: J&W DB-5

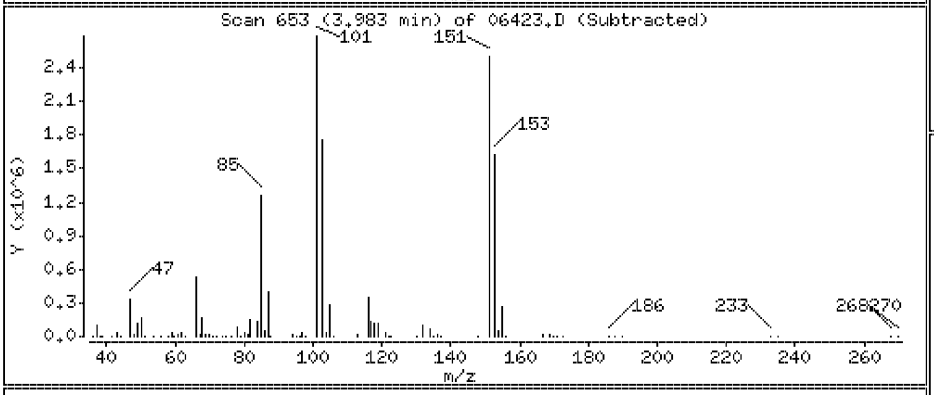
Column diameter: 0.32

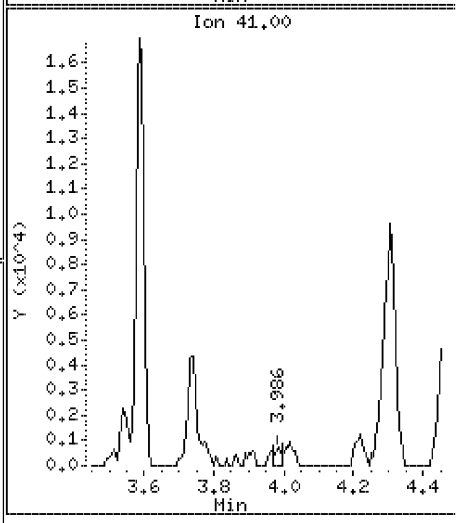
24 Tert Butyl Alcohol (TBA)

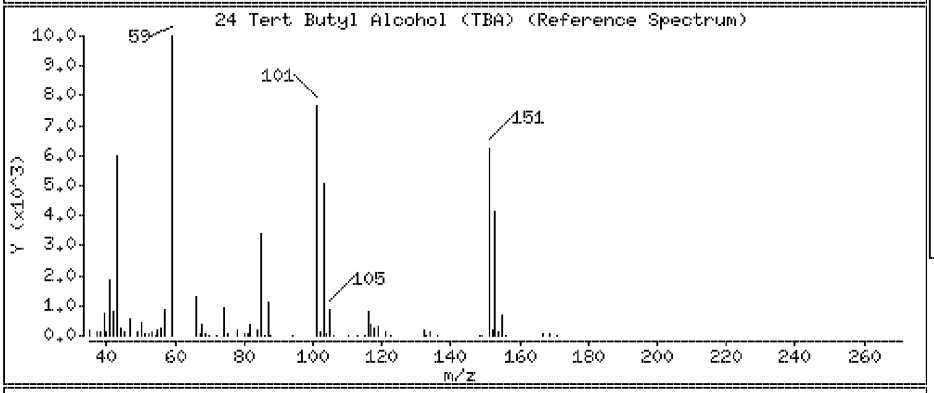
Concentration: 5.50 ppbv

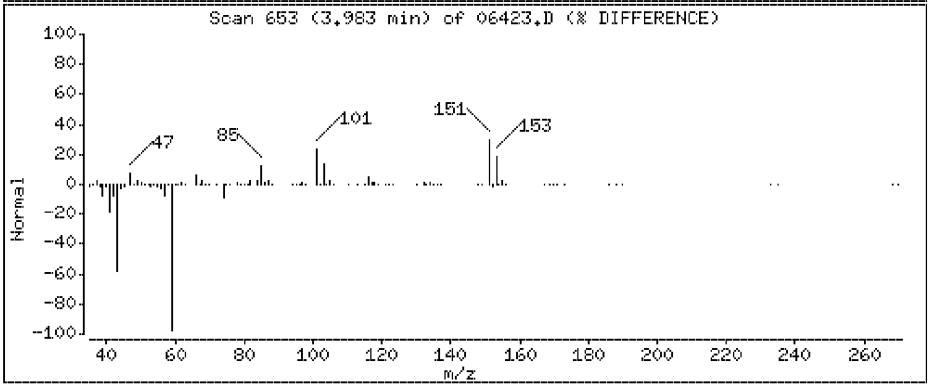












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

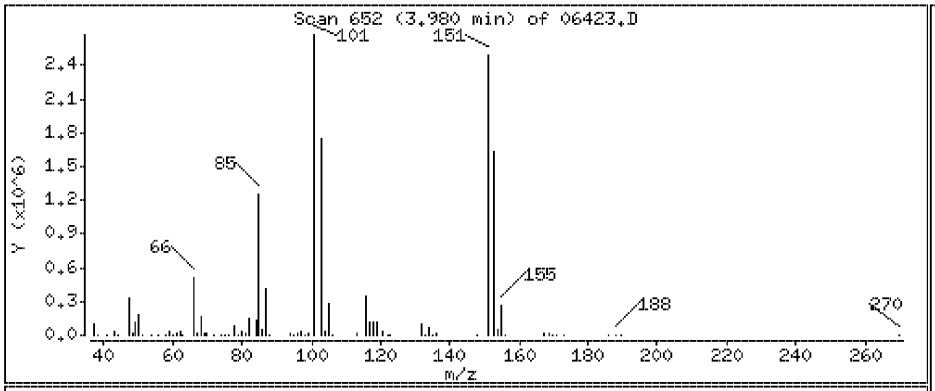
Operator: NCK

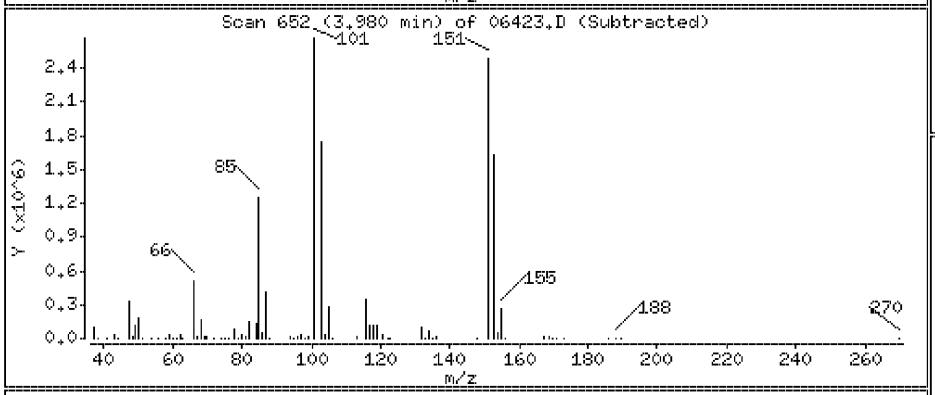
Column phase: J&W DB-5

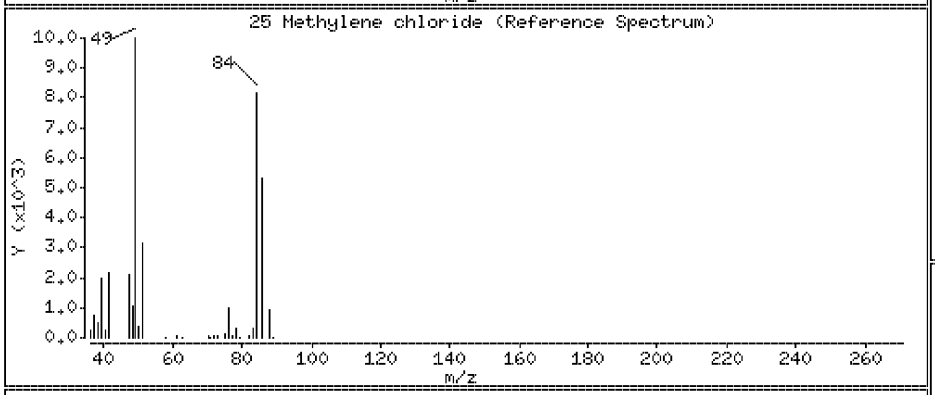
Column diameter: 0.32

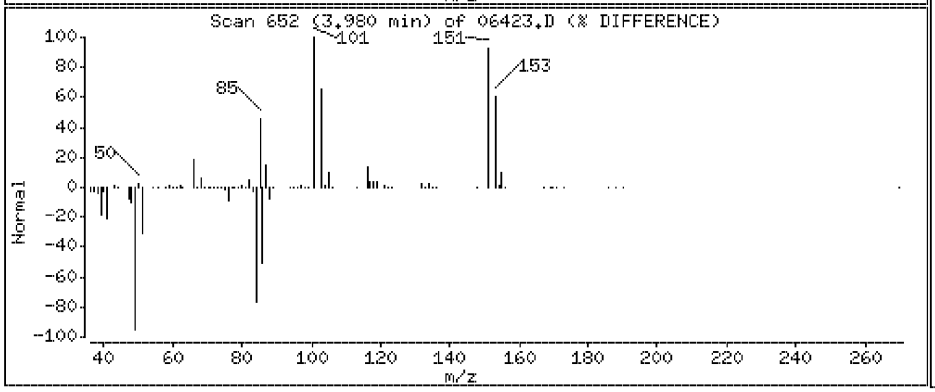
25 Methylene chloride

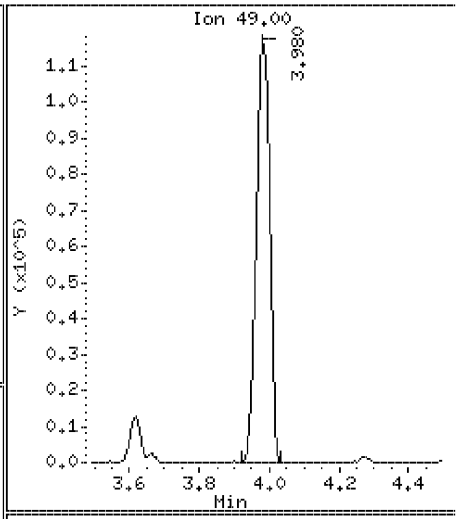
Concentration: 42.1 ppbv

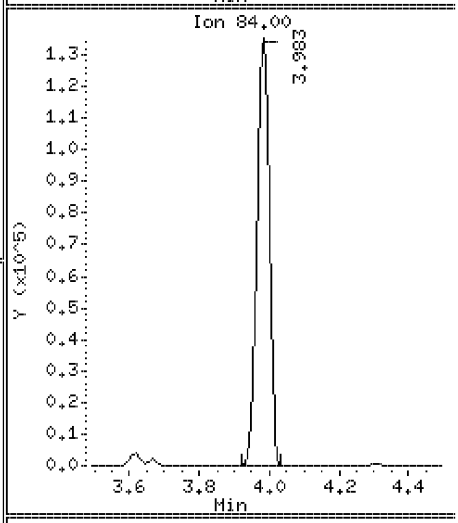


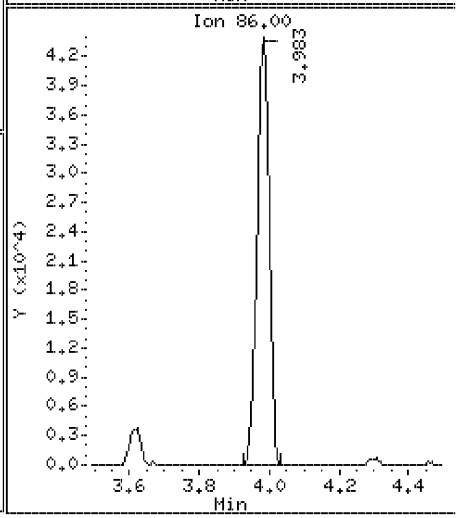












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

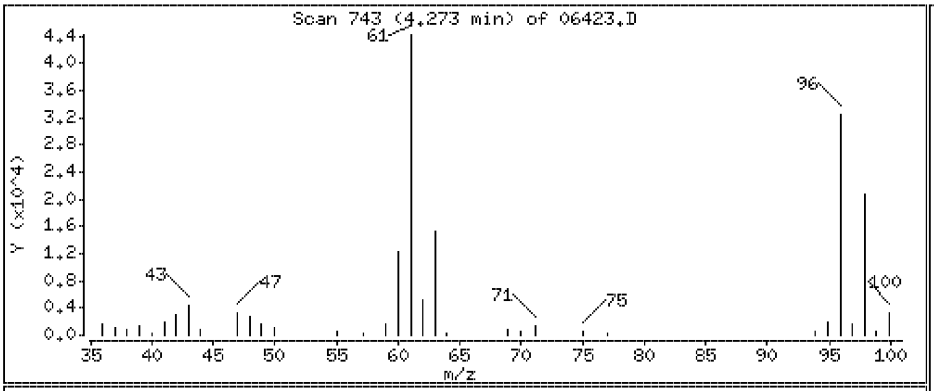
Operator: NCK

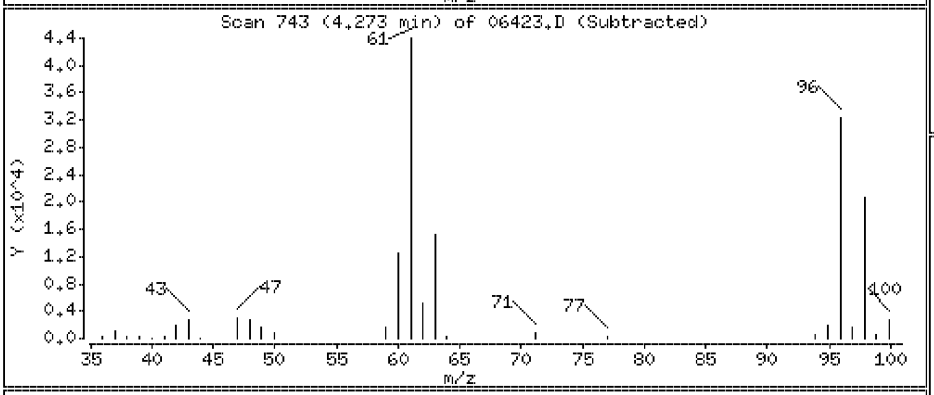
Column phase: J&W DB-5

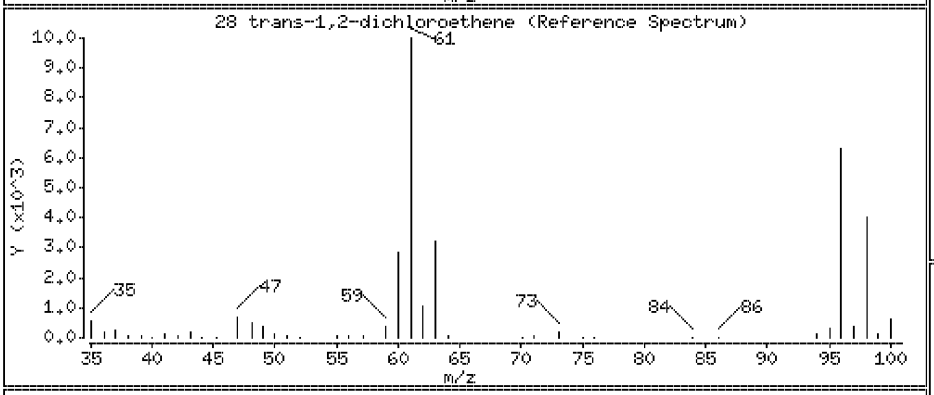
Column diameter: 0.32

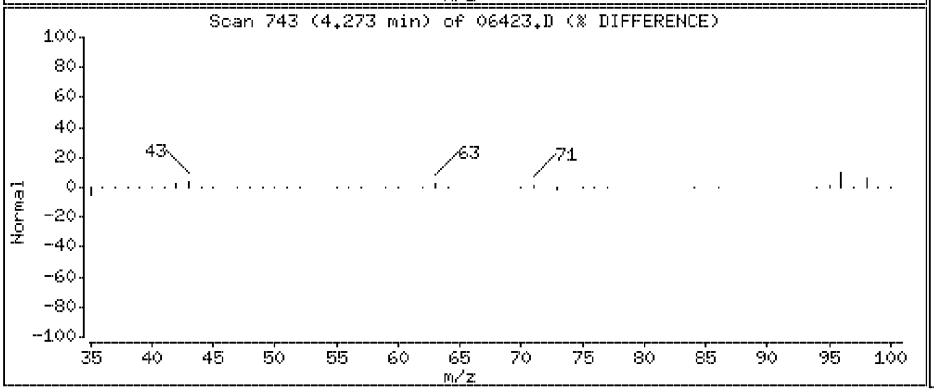
28 trans-1,2-dichloroethene

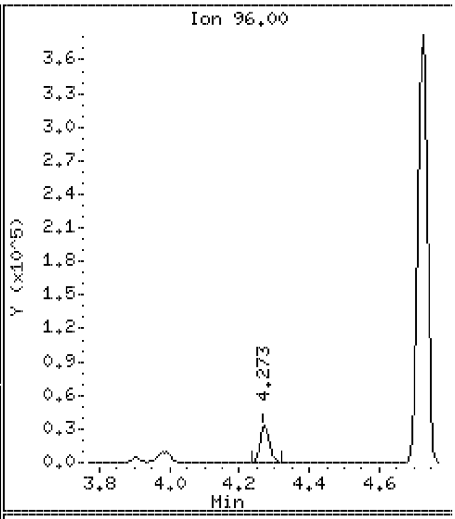
Concentration: 9.80 ppbv

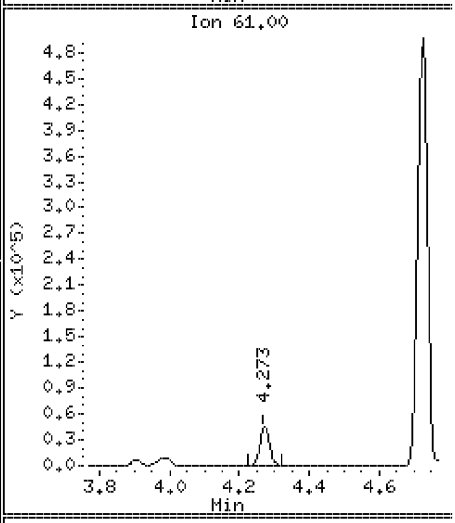


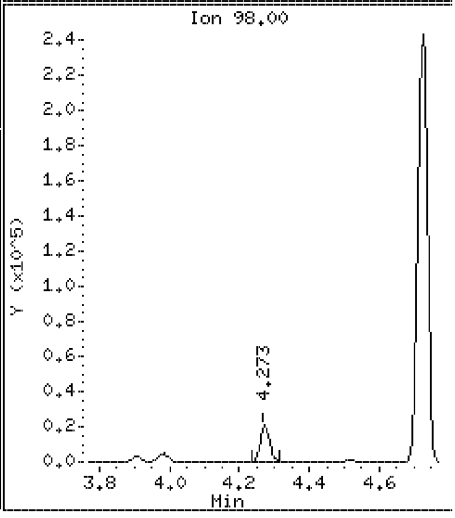












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

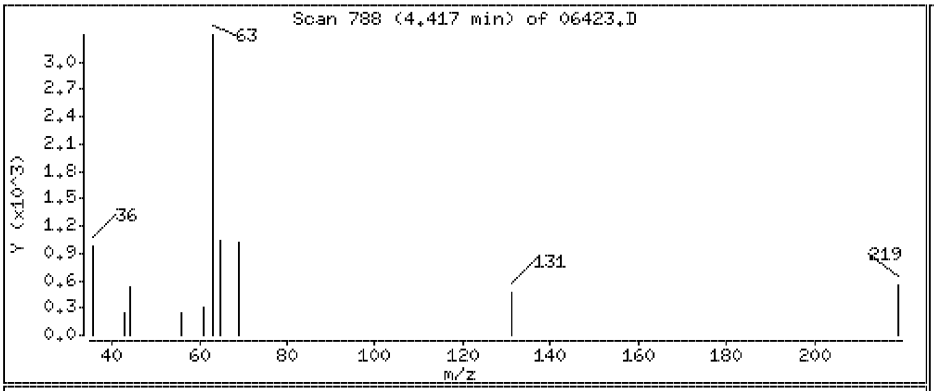
Operator: NCK

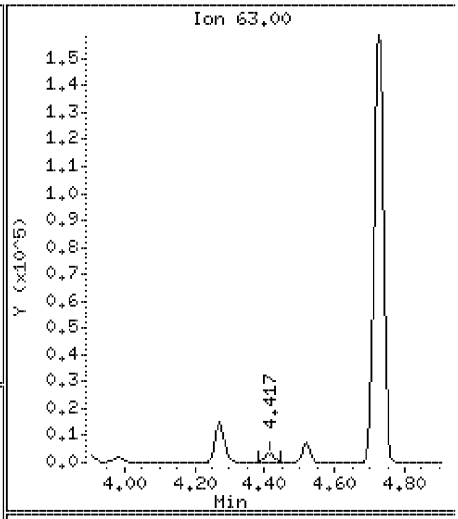
Column phase: J&W DB-5

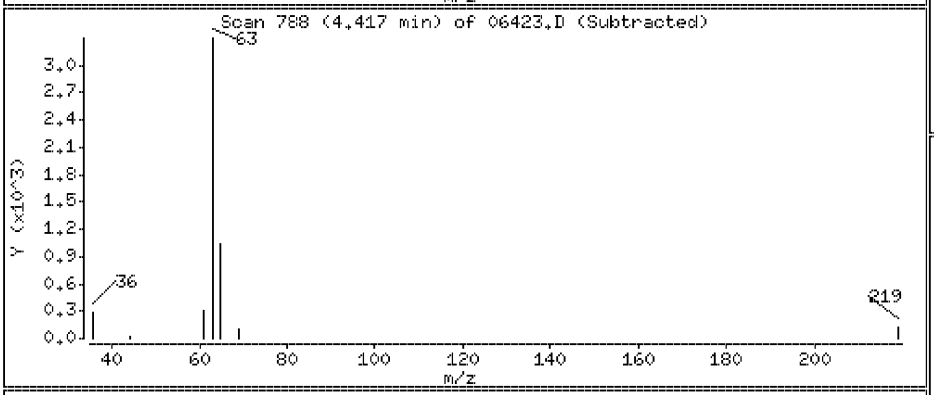
Column diameter: 0.32

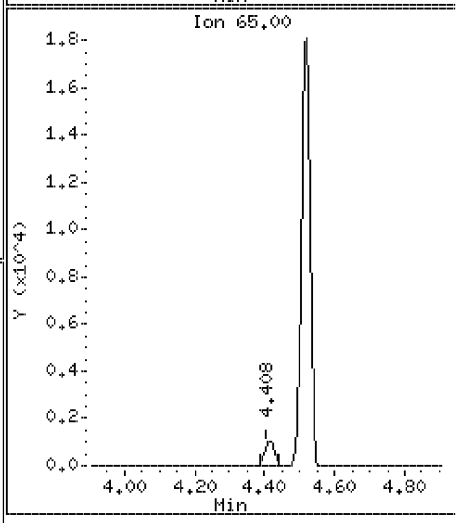
31 1,1-Dichloroethane

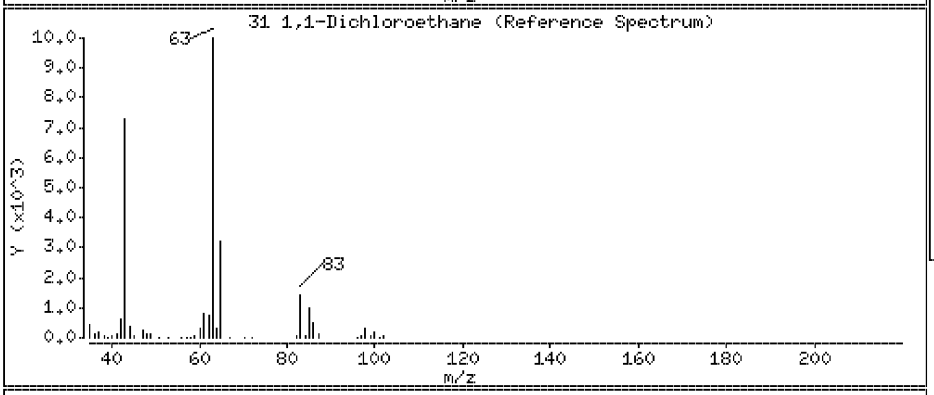
Concentration: 0.578 ppbv

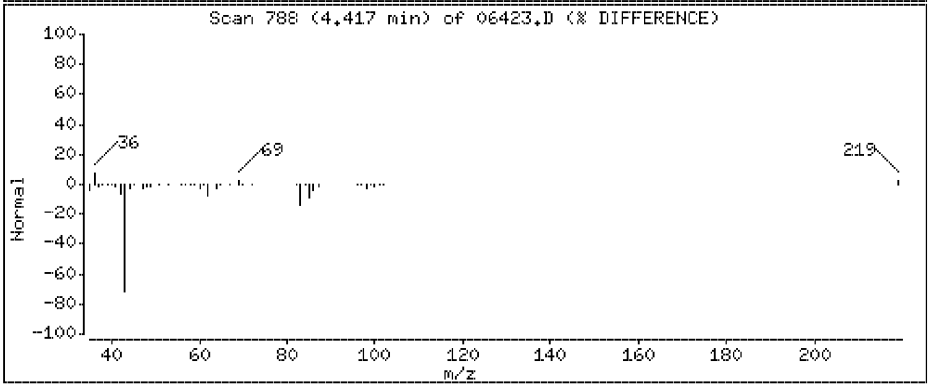












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

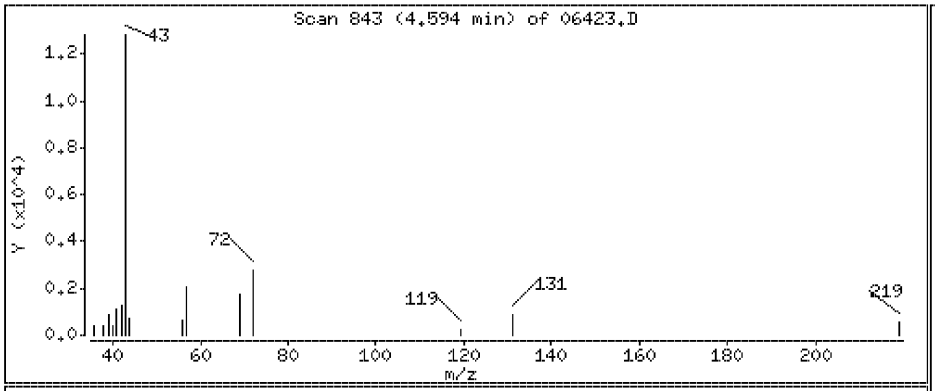
Operator: NCK

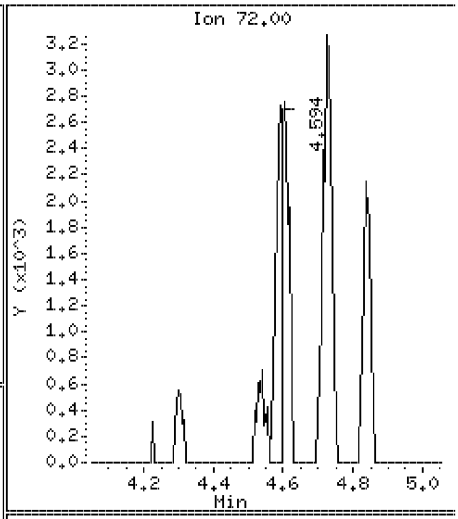
Column phase: J&W DB-5

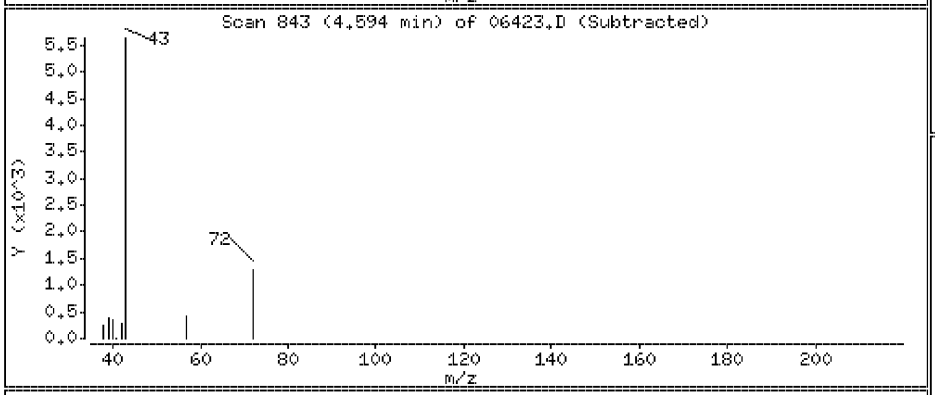
Column diameter: 0.32

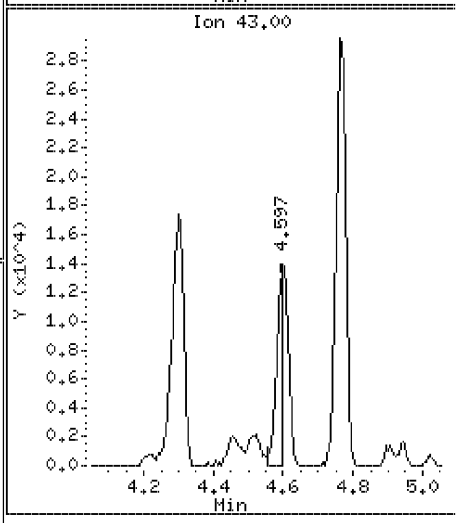
33 Methyl Ethyl Ketone

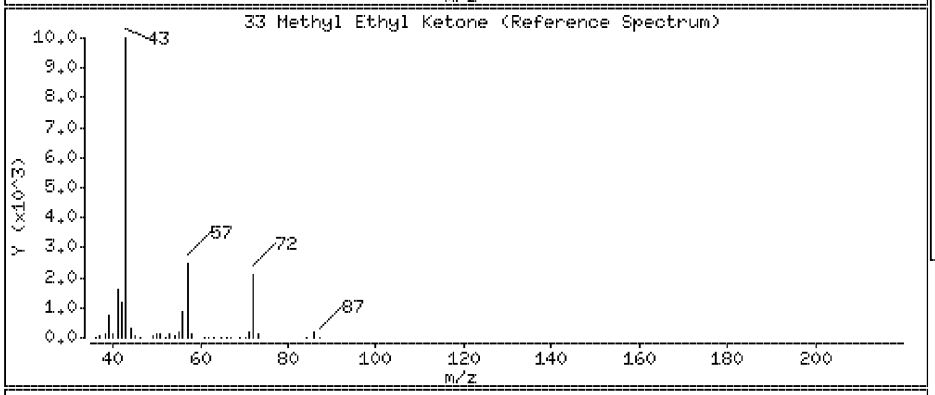
Concentration: 1.28 ppbv

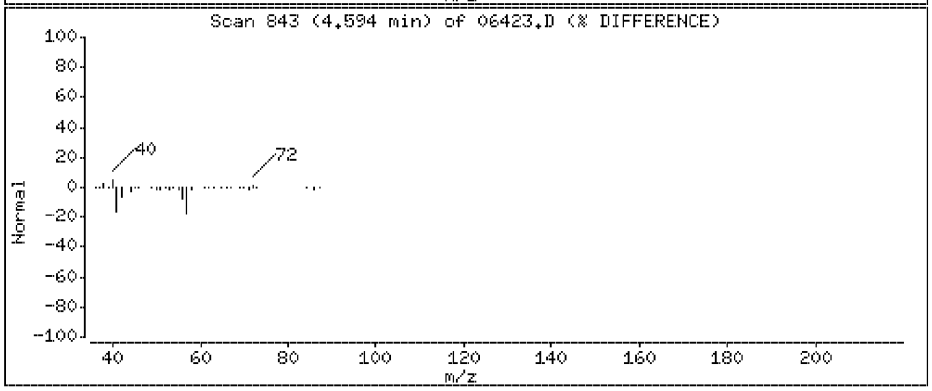












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

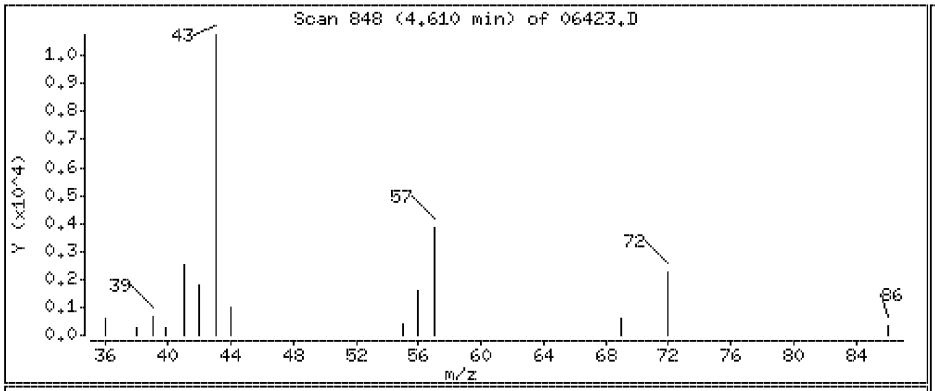
Operator: NCK

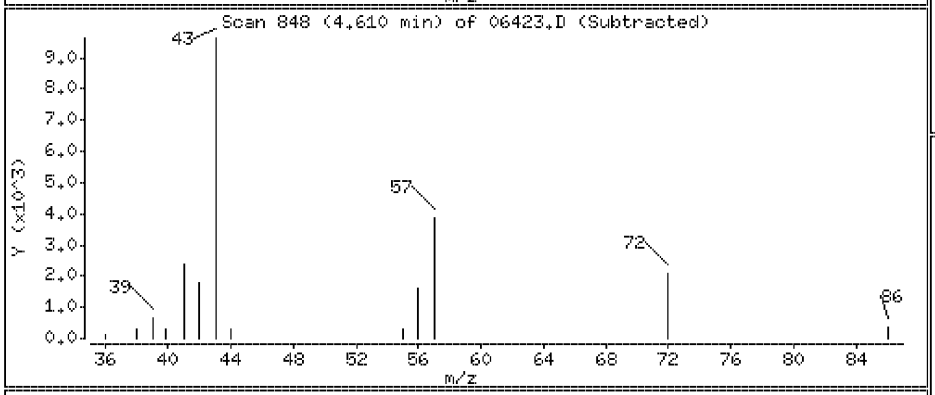
Column phase: J&W DB-5

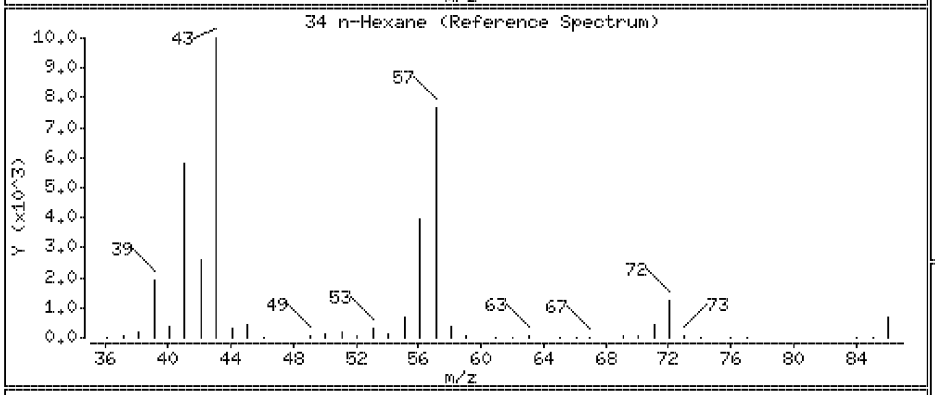
Column diameter: 0.32

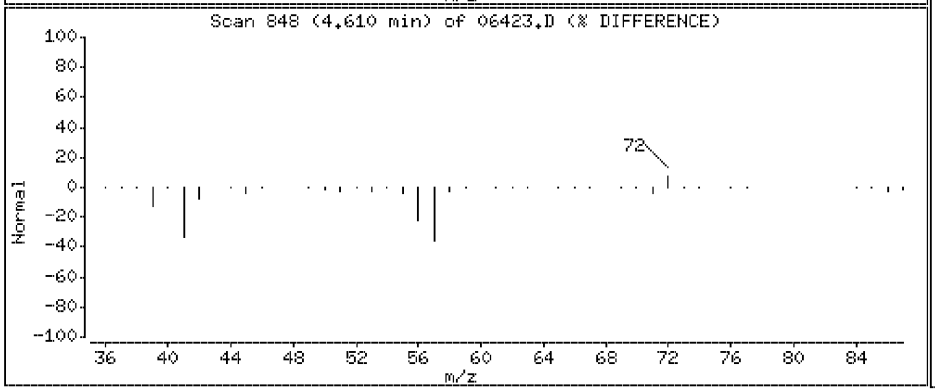
34 n-Hexane

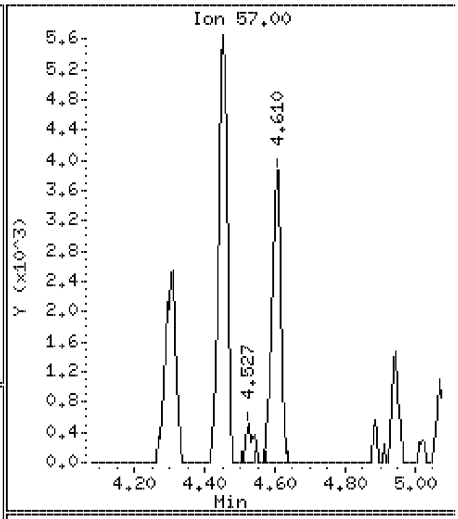
Concentration: 0.630 ppbv

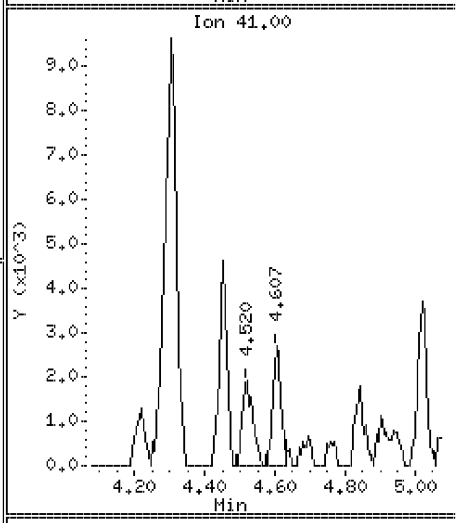


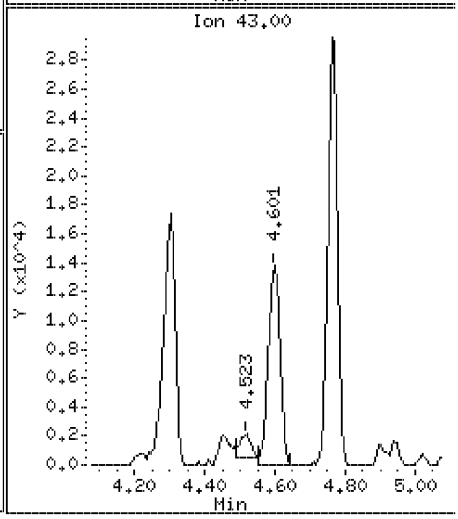












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

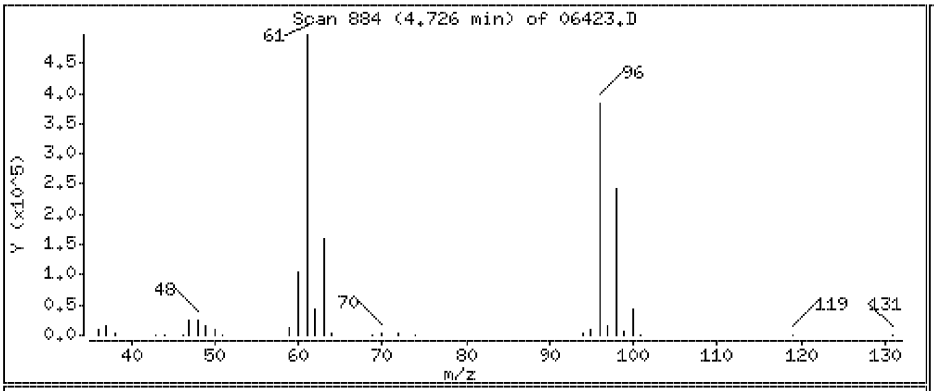
Operator: NCK

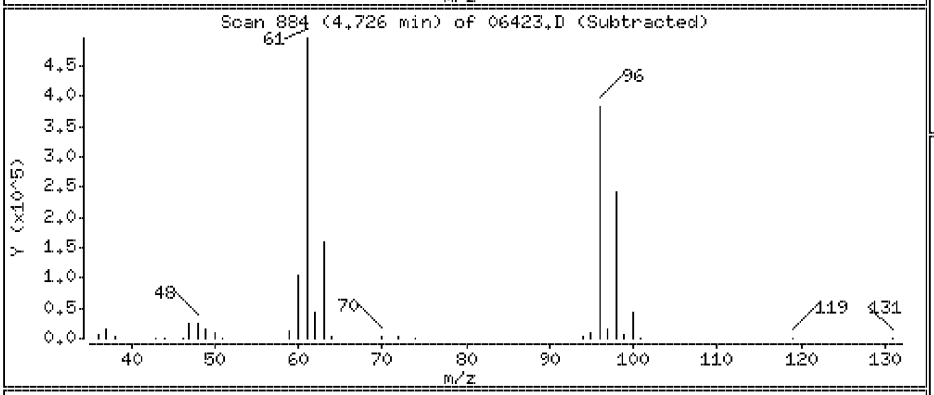
Column phase: J&W DB-5

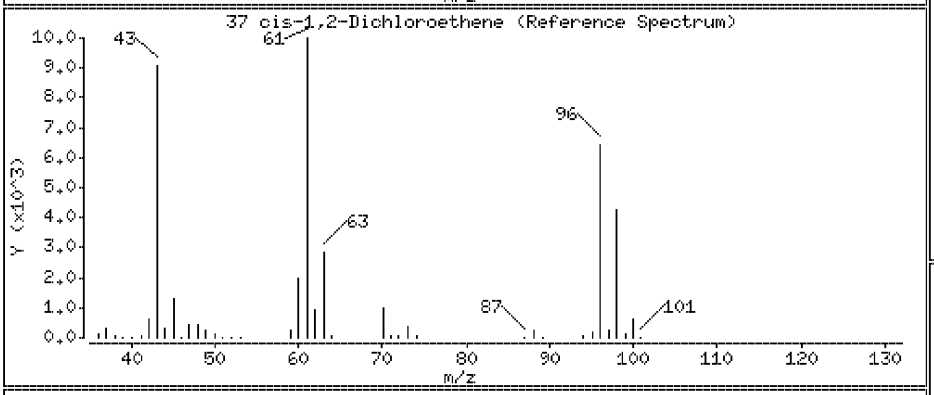
Column diameter: 0.32

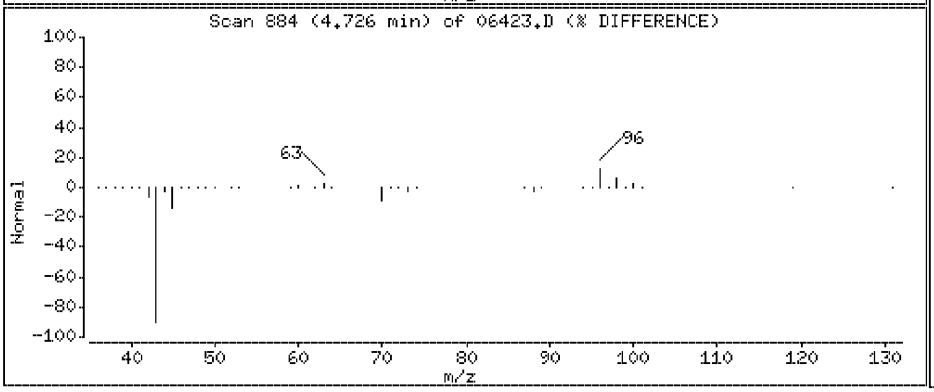
37 cis-1,2-Dichloroethene

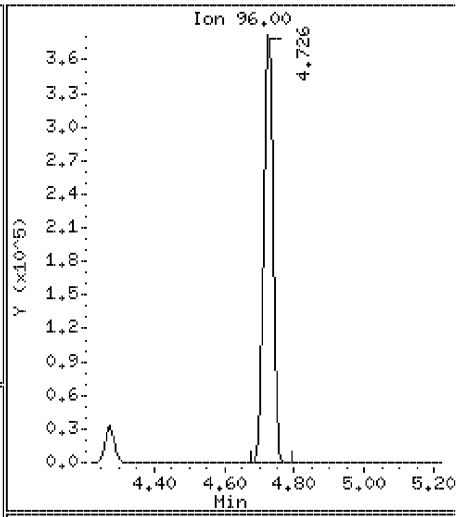
Concentration: 109 ppbv

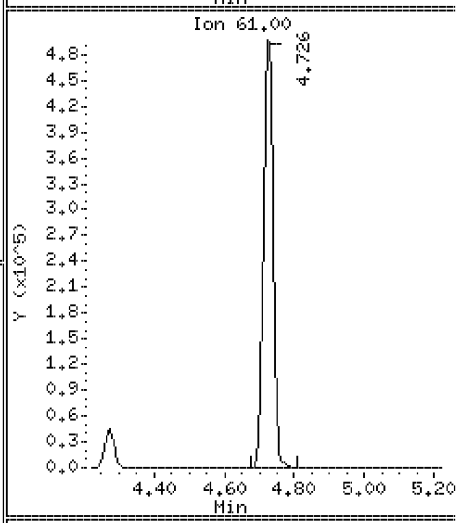


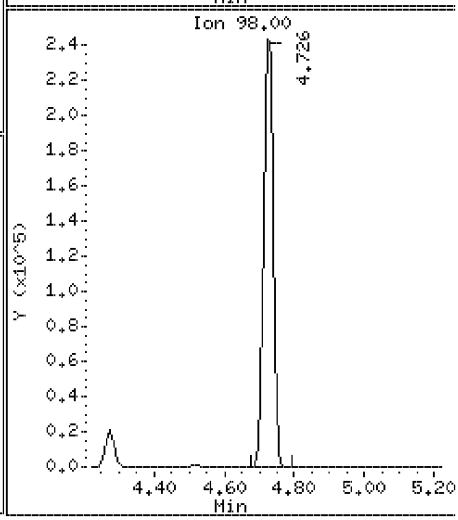












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

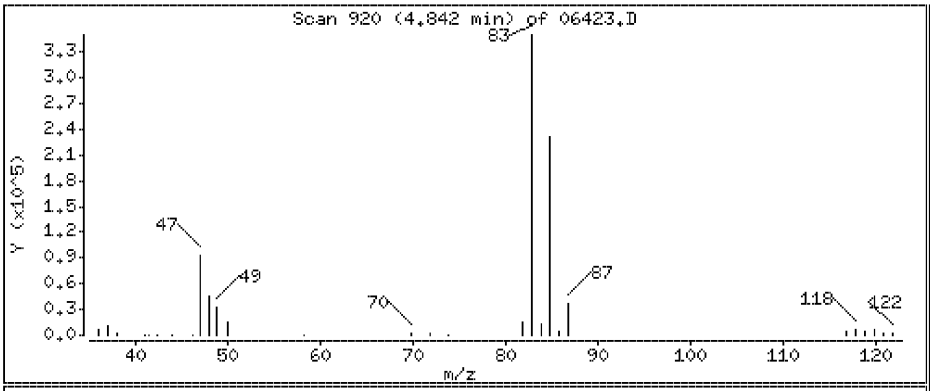
Operator: NCK

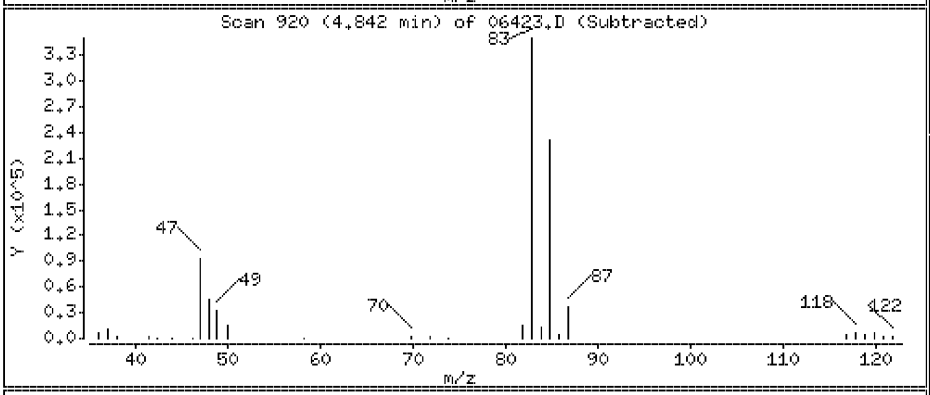
Column phase: J&W DB-5

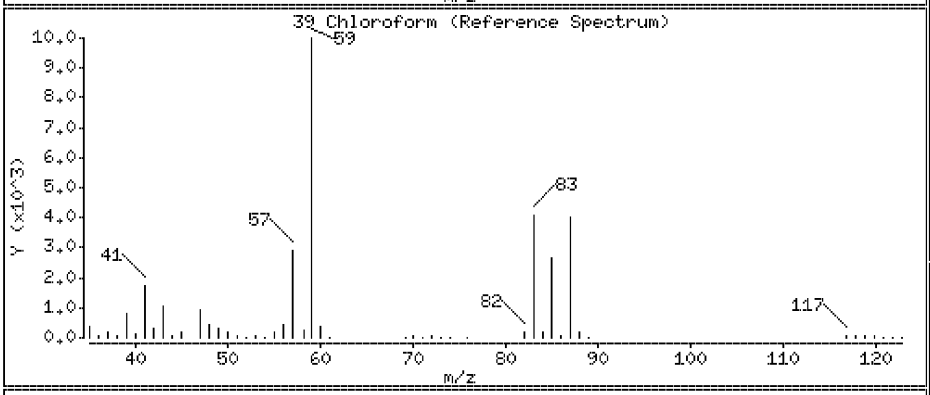
Column diameter: 0.32

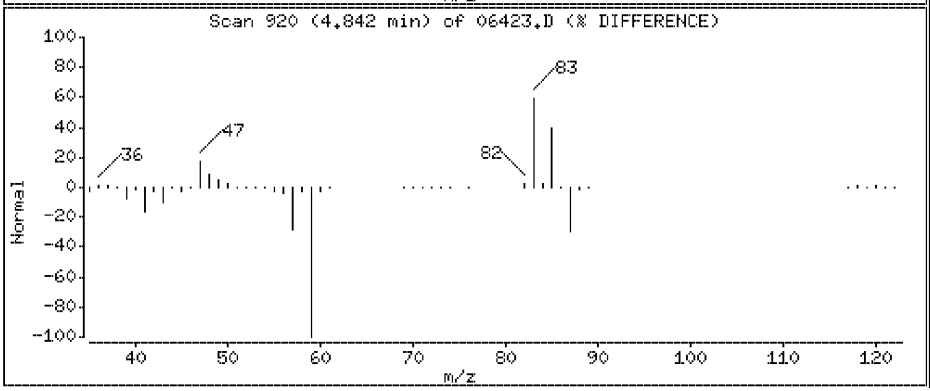
39 Chloroform

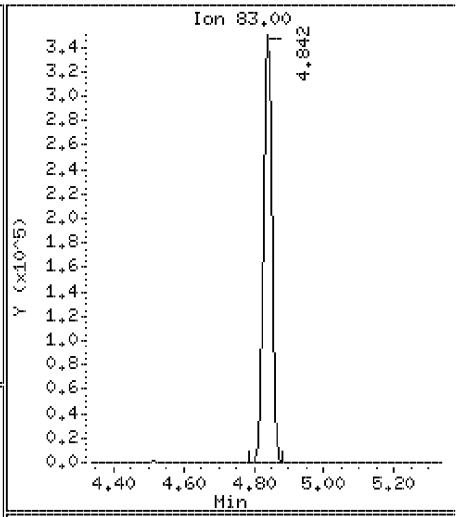
Concentration: 42.7 ppbv

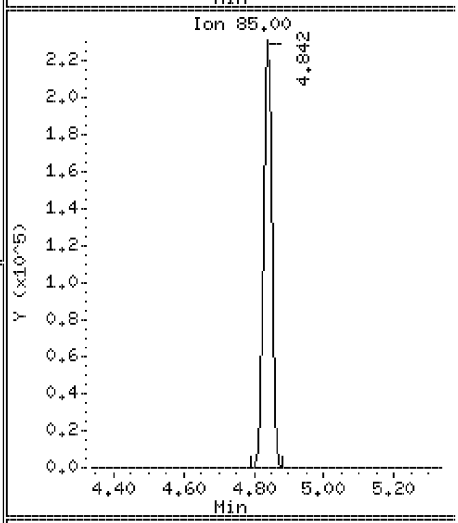


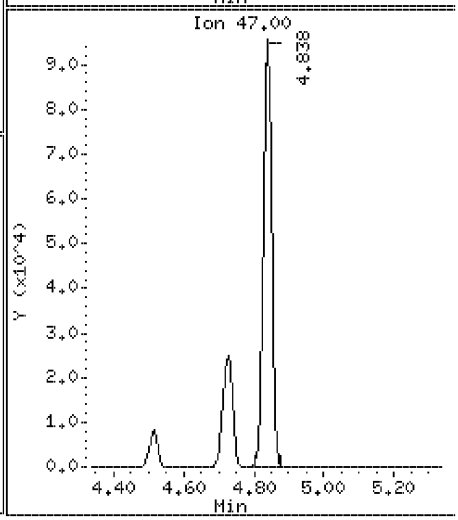












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

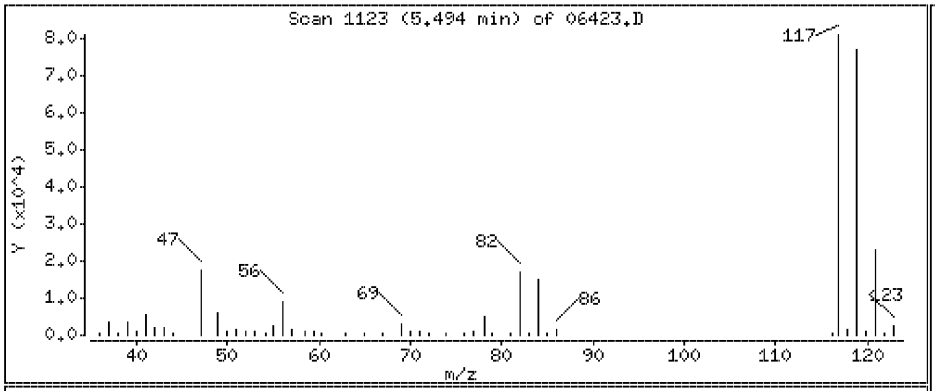
Operator: NCK

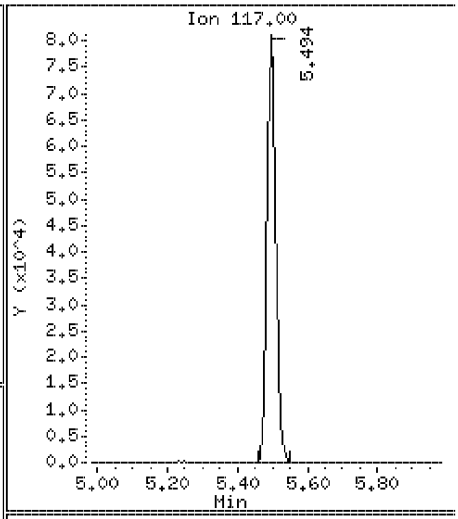
Column phase: J&W DB-5

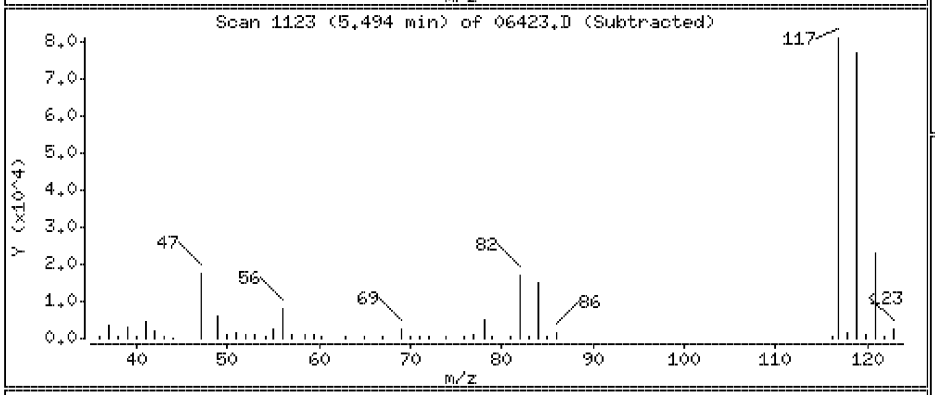
Column diameter: 0.32

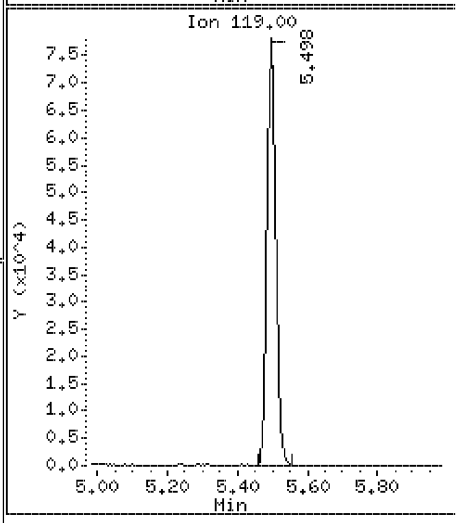
44 Carbon tetrachloride

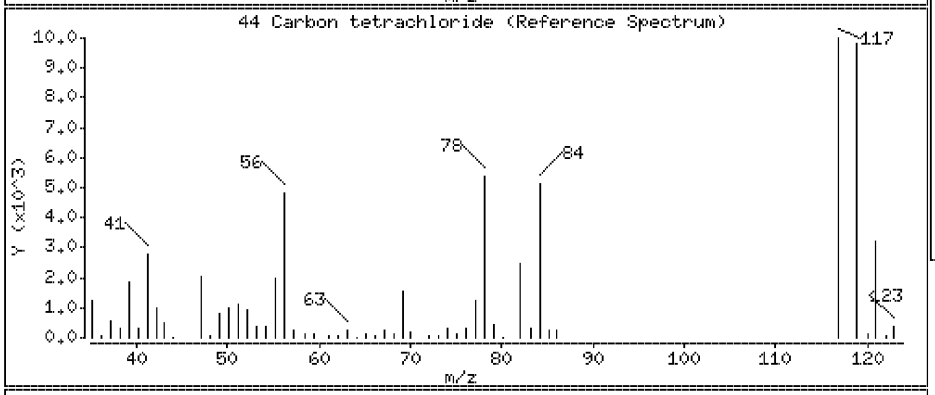
Concentration: 8.85 ppbv

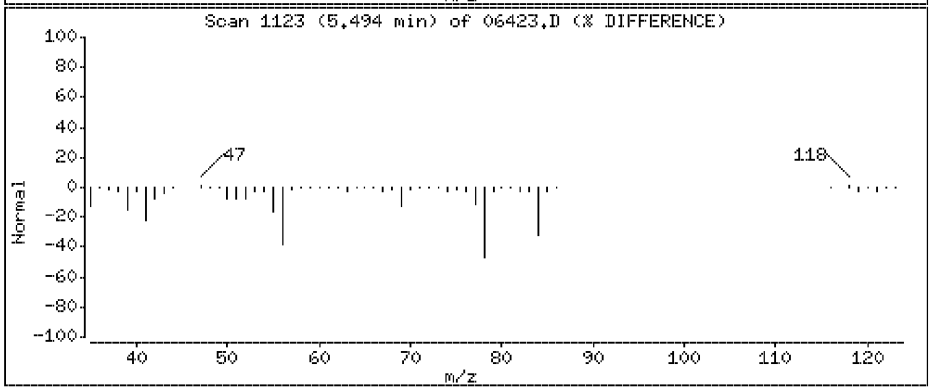












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

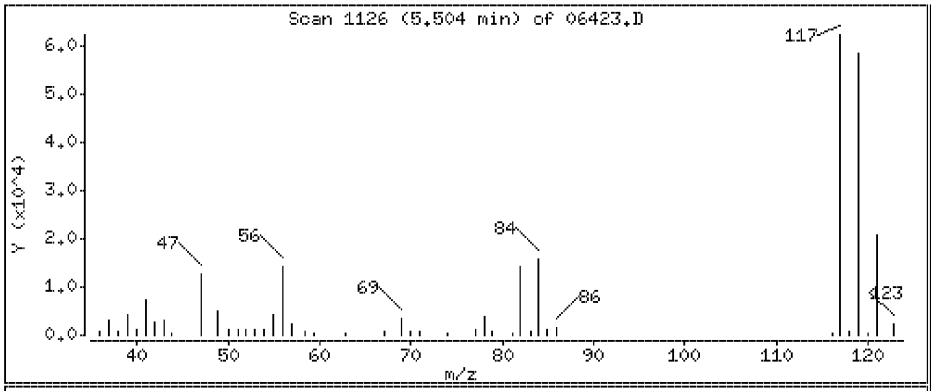
Operator: NCK

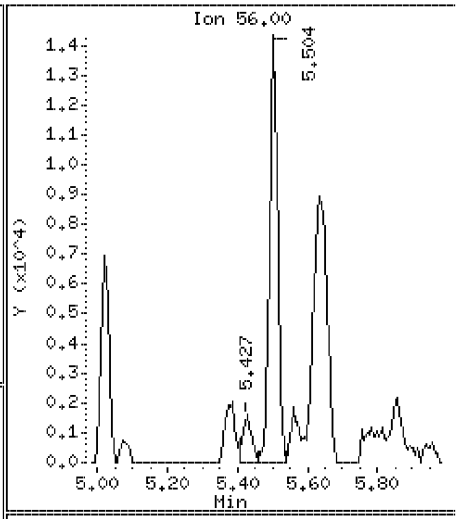
Column phase: J&W DB-5

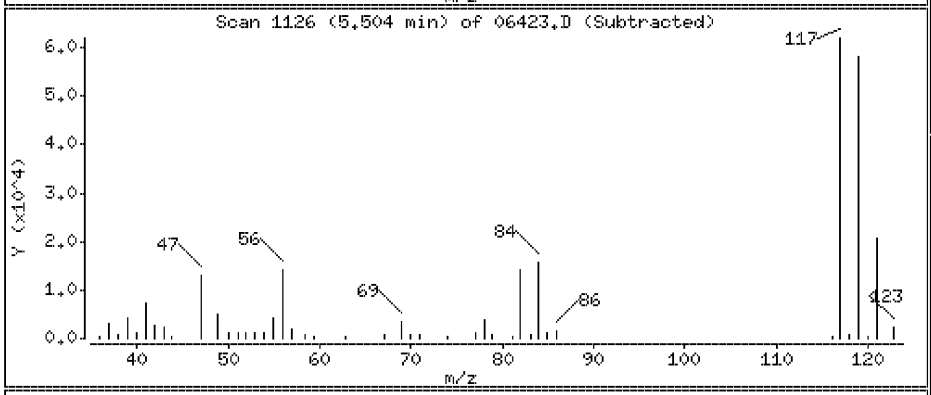
Column diameter: 0.32

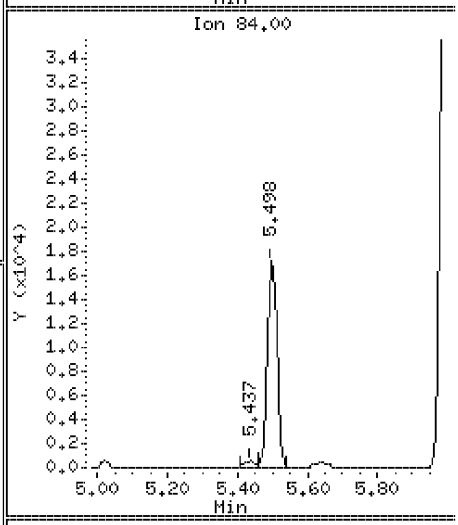
45 Cyclohexane

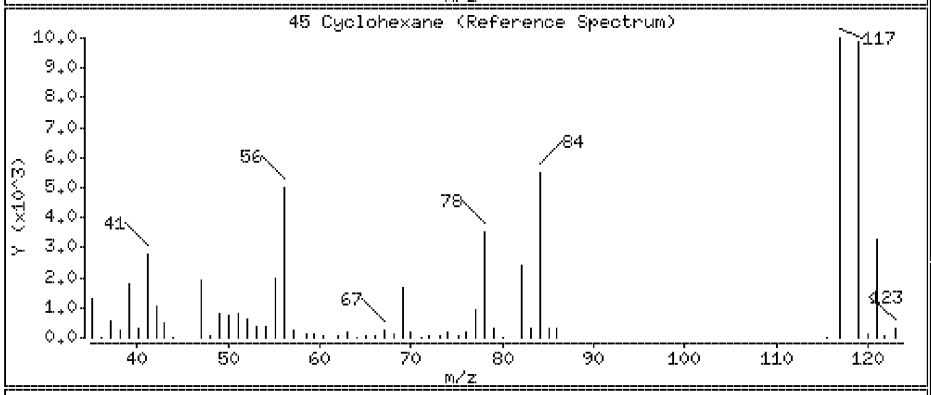
Concentration: 2.12 ppbv

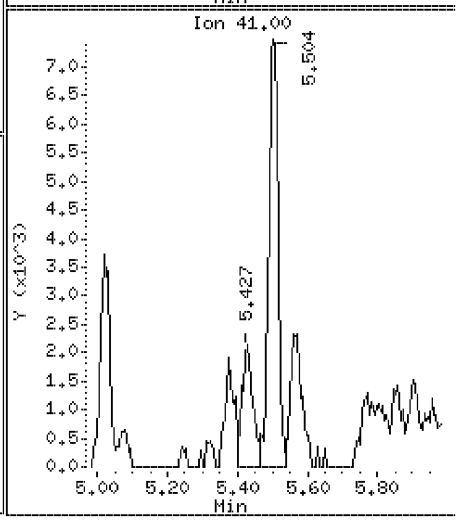


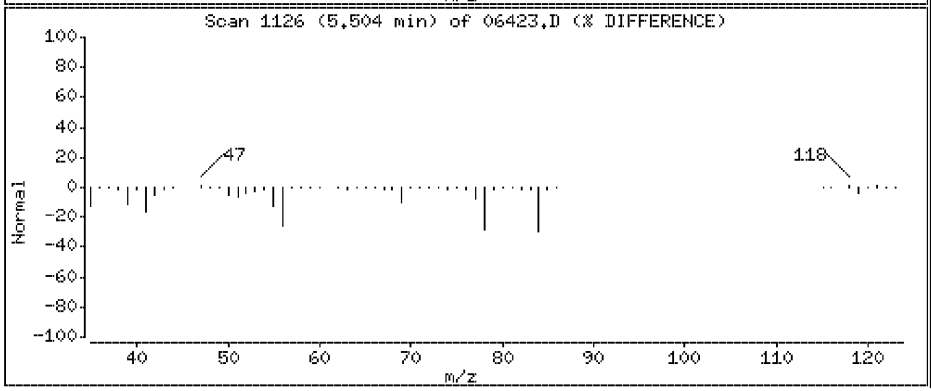












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

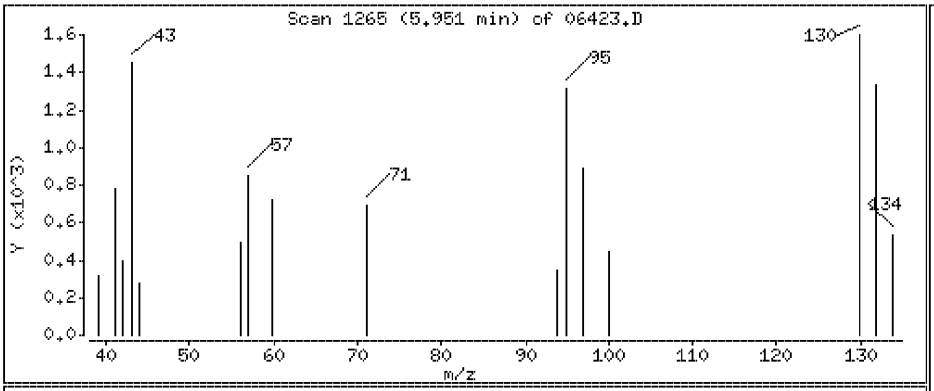
Operator: NCK

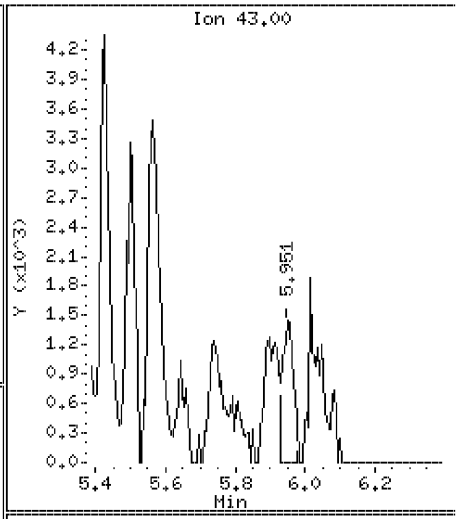
Column phase: J&W DB-5

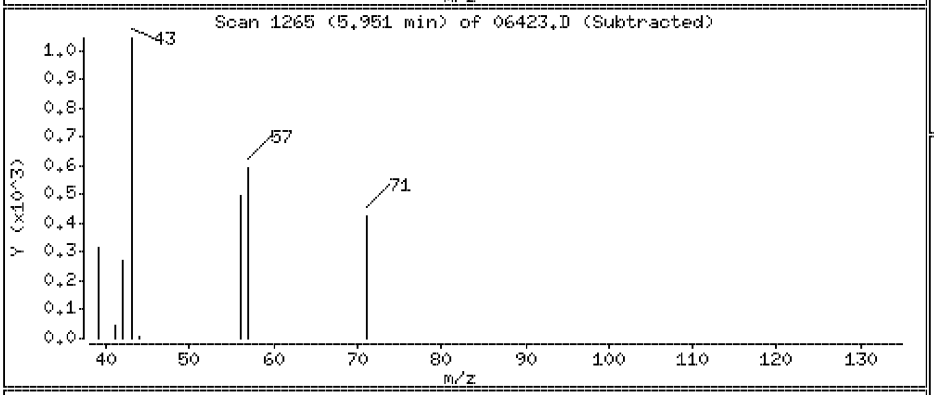
Column diameter: 0.32

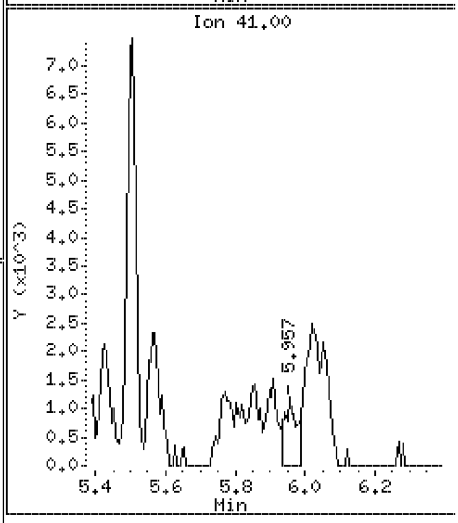
49 Heptane

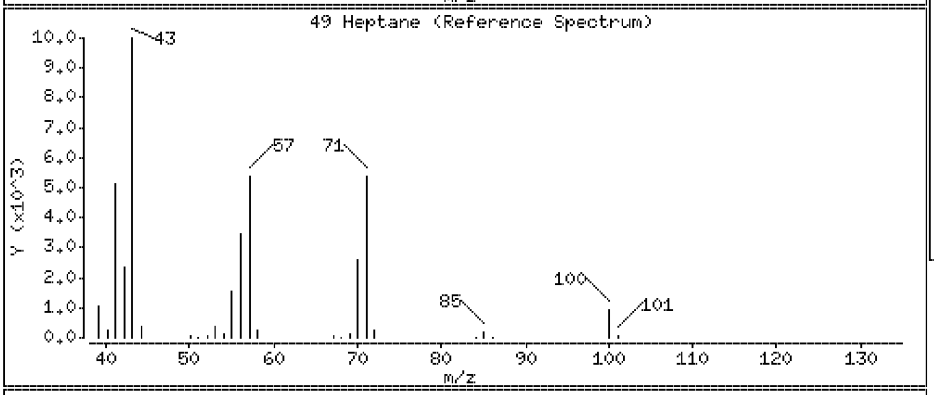
Concentration: 0.265 ppbv

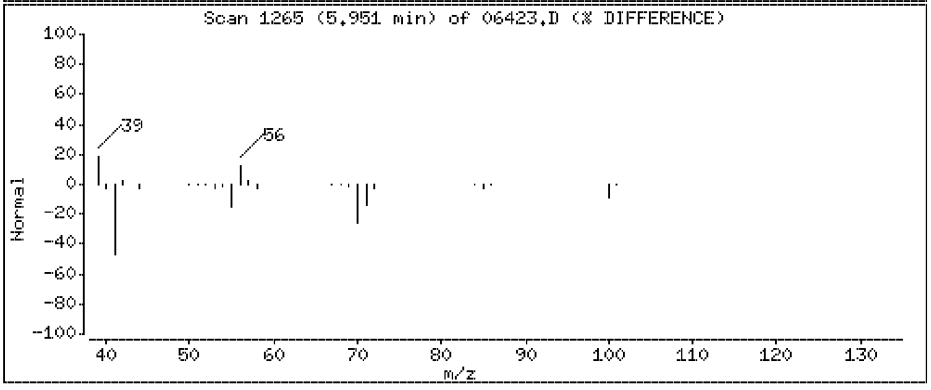












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

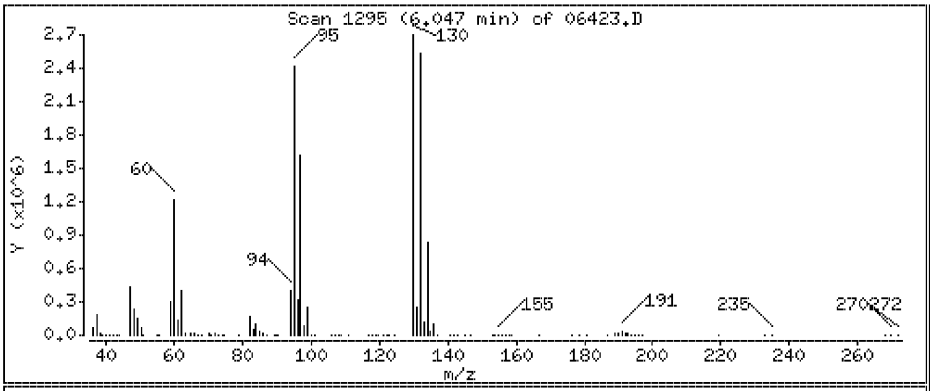
Operator: NCK

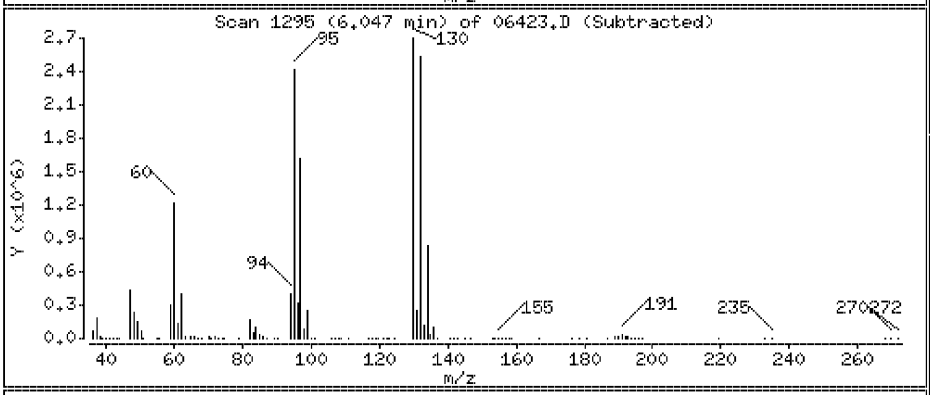
Column phase: J&W DB-5

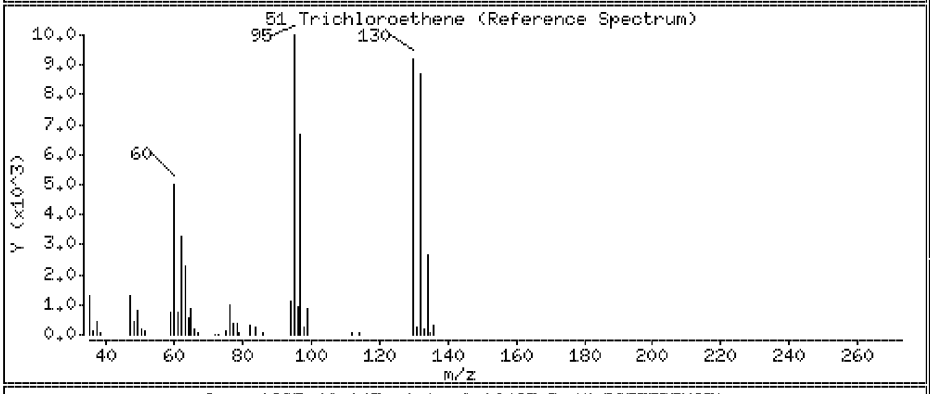
Column diameter: 0.32

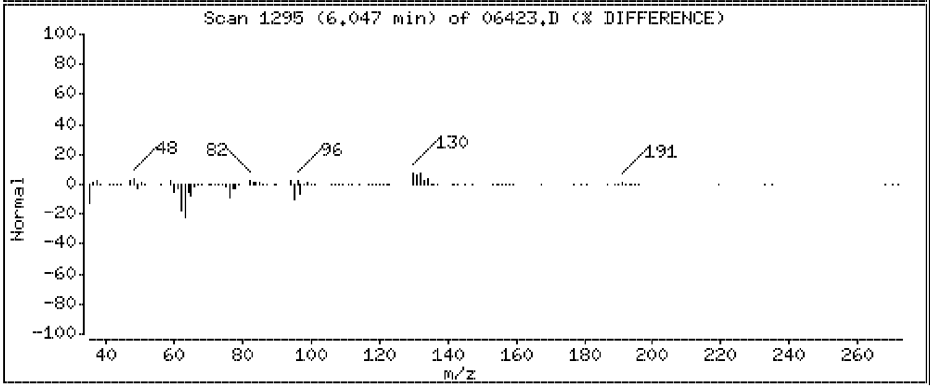
51 Trichloroethene

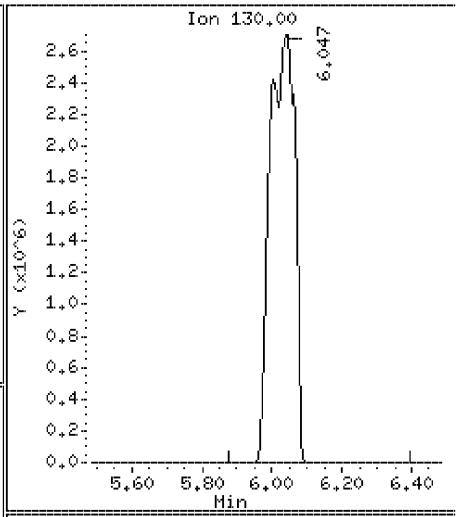
Concentration: 1250 ppbv

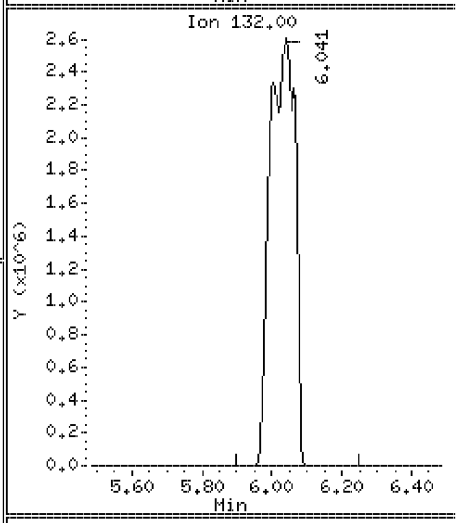


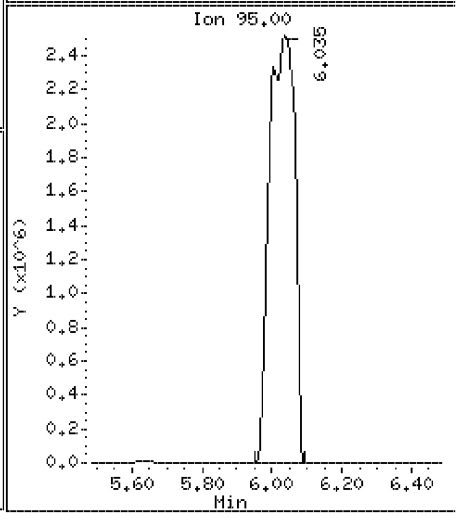












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

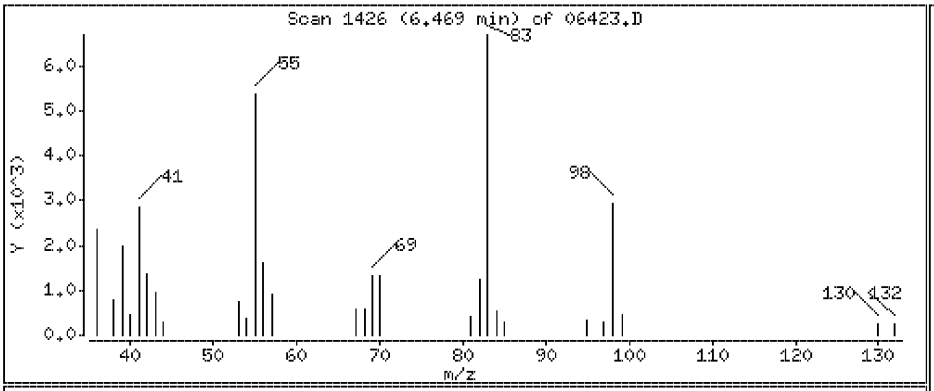
Operator: NCK

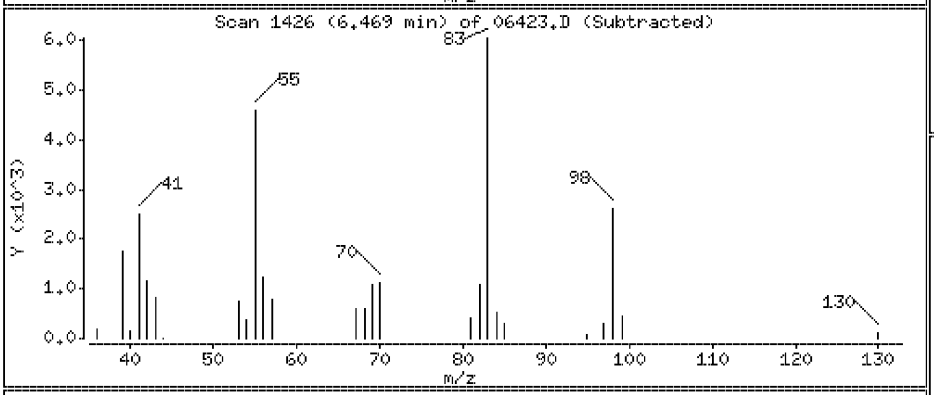
Column phase: J&W DB-5

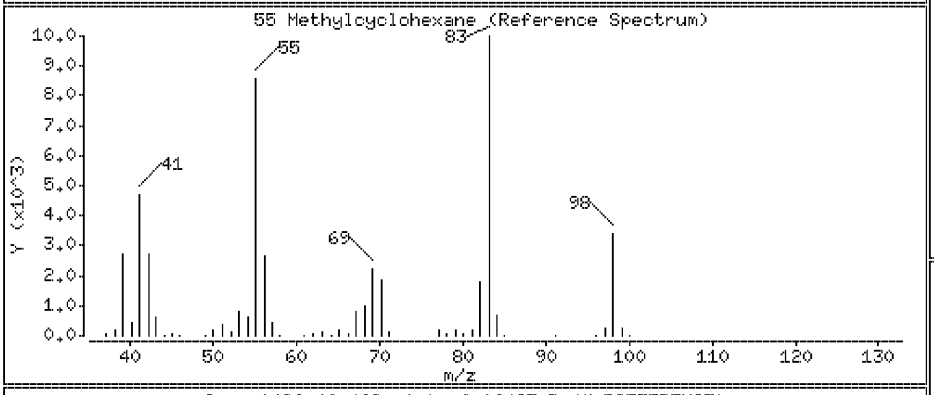
Column diameter: 0.32

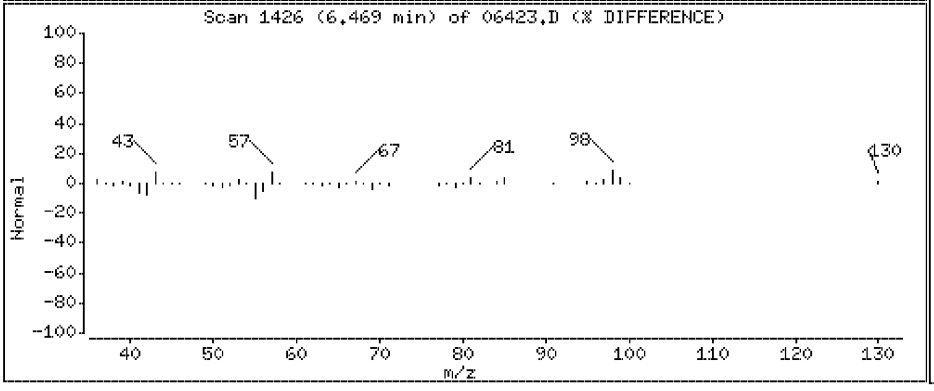
55 Methylcyclohexane

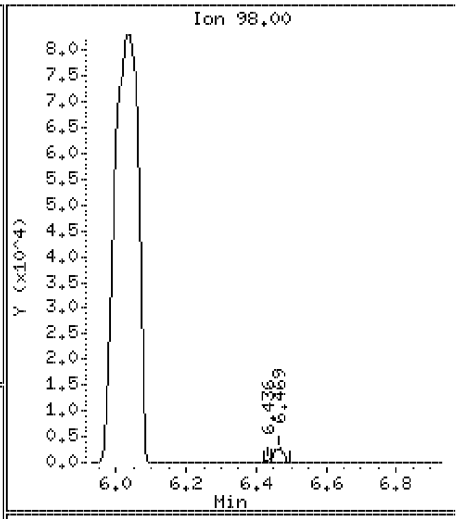
Concentration: 0.880 ppbv

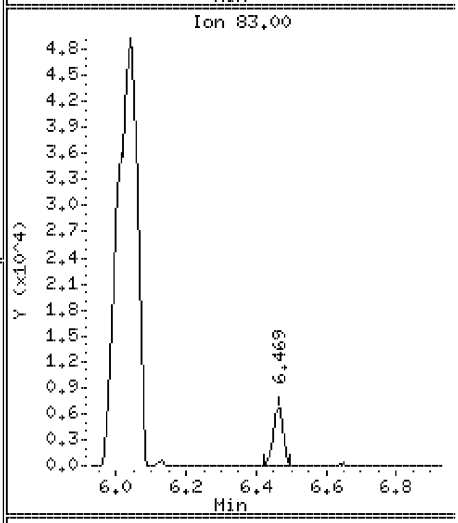


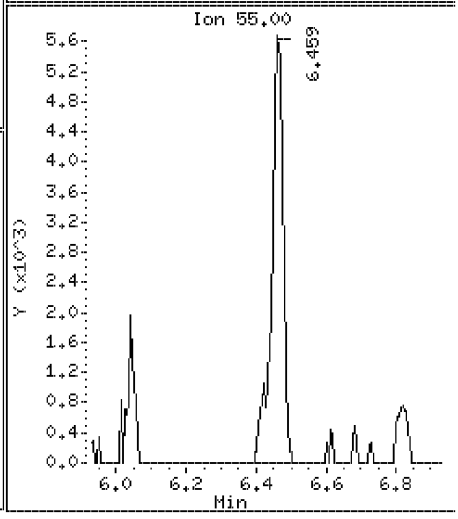












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

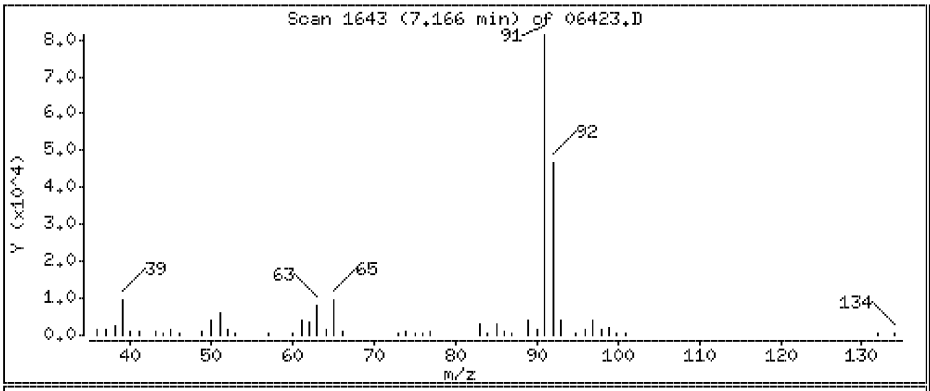
Operator: NCK

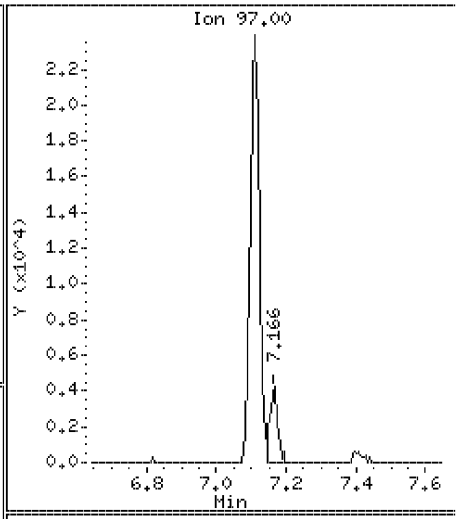
Column phase: J&W DB-5

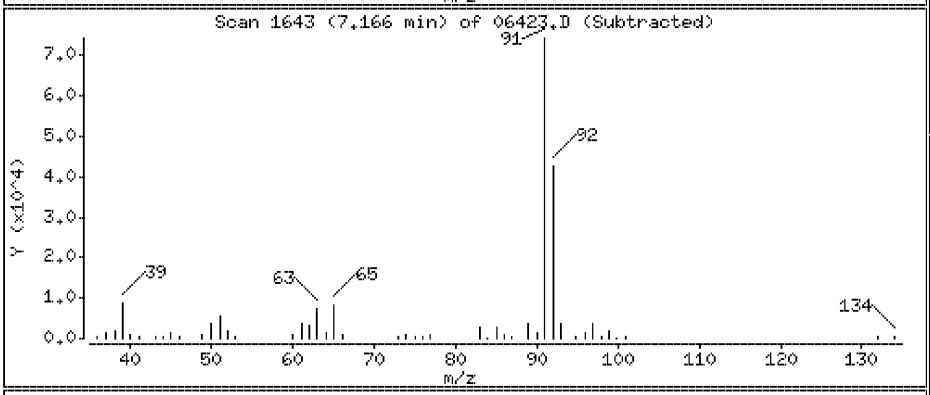
Column diameter: 0.32

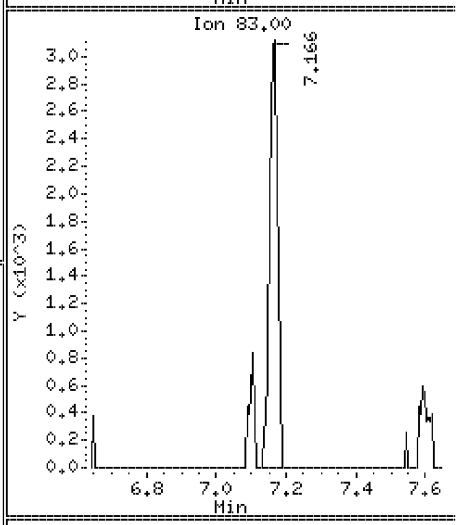
60 1,1,2-Trichloroethane

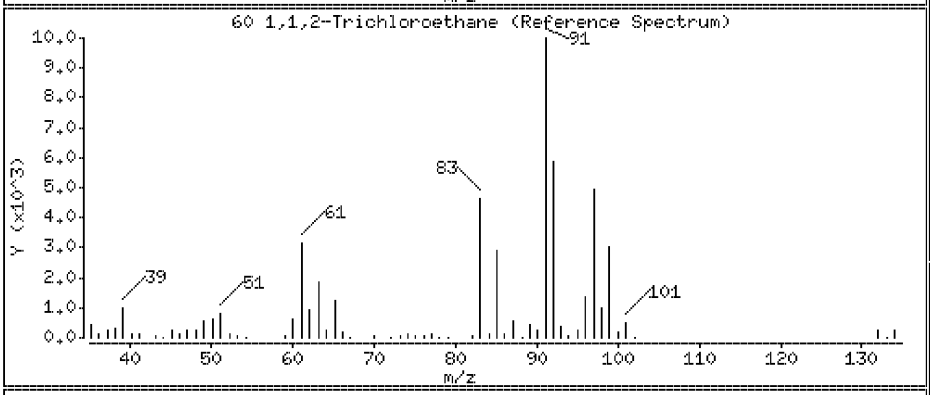
Concentration: 0.765 ppbv

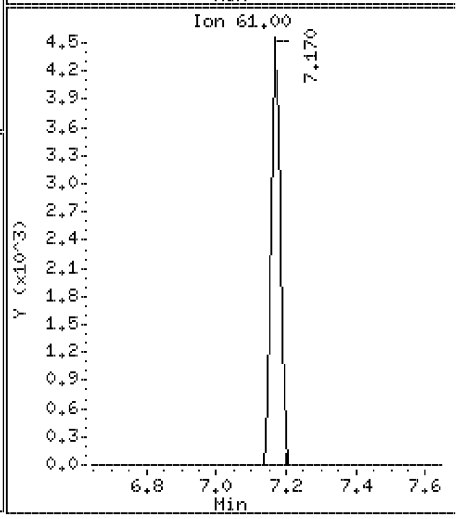


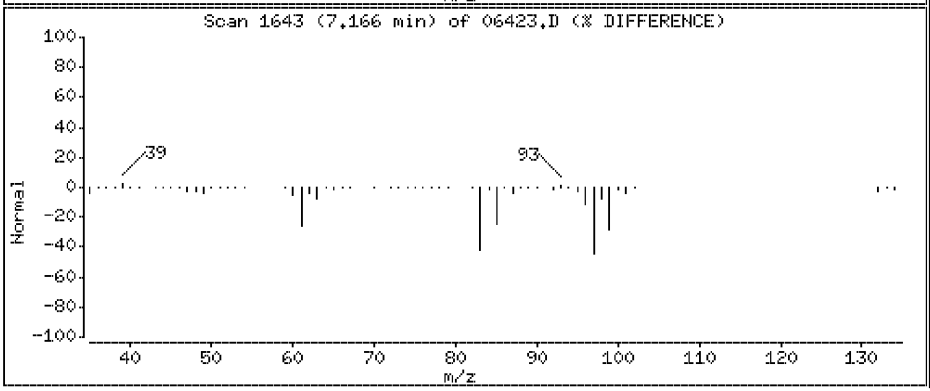












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

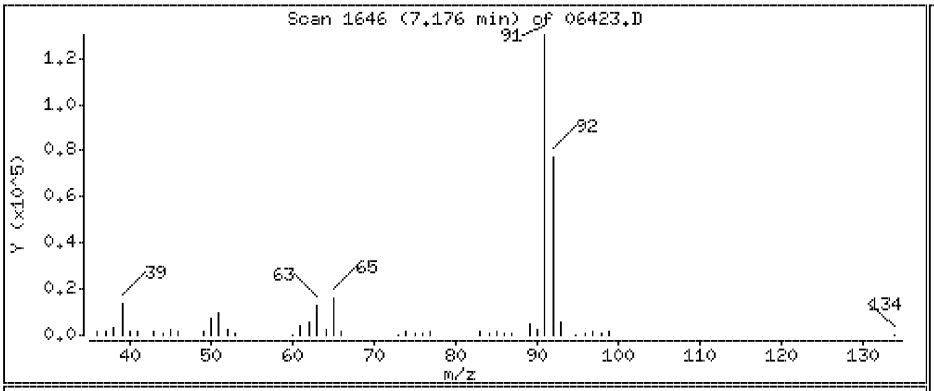
Operator: NCK

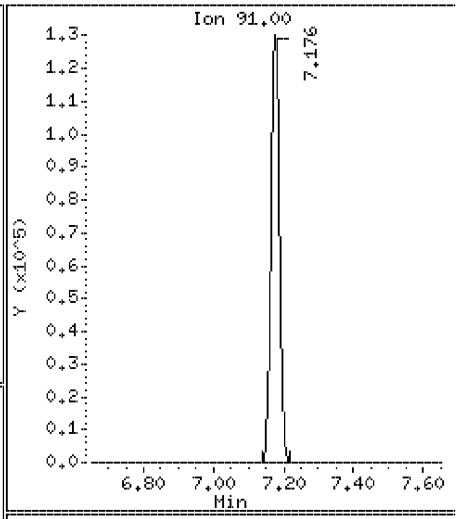
Column phase: J&W DB-5

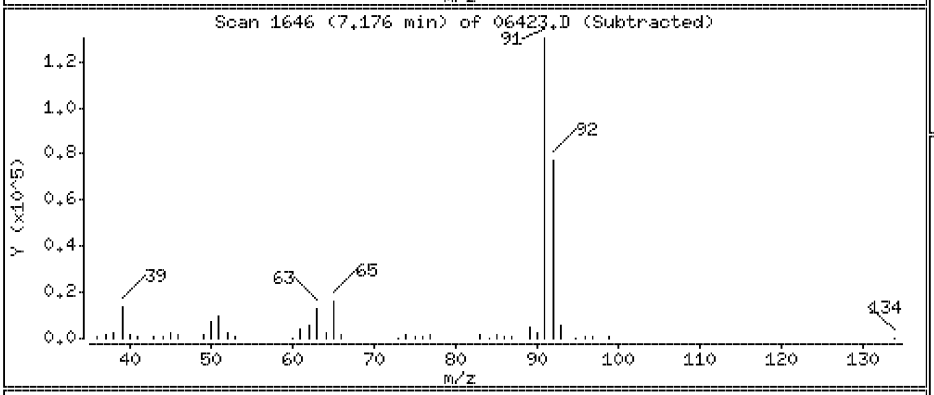
Column diameter: 0.32

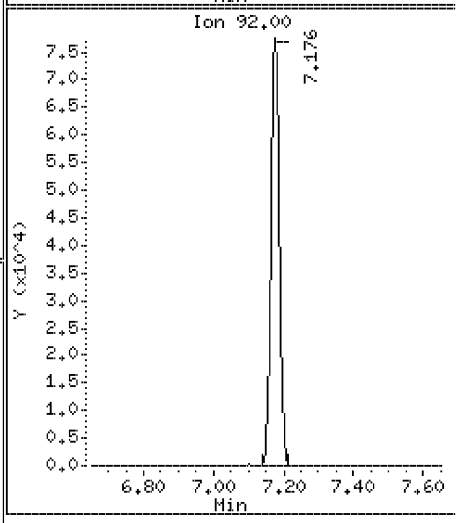
61 Toluene

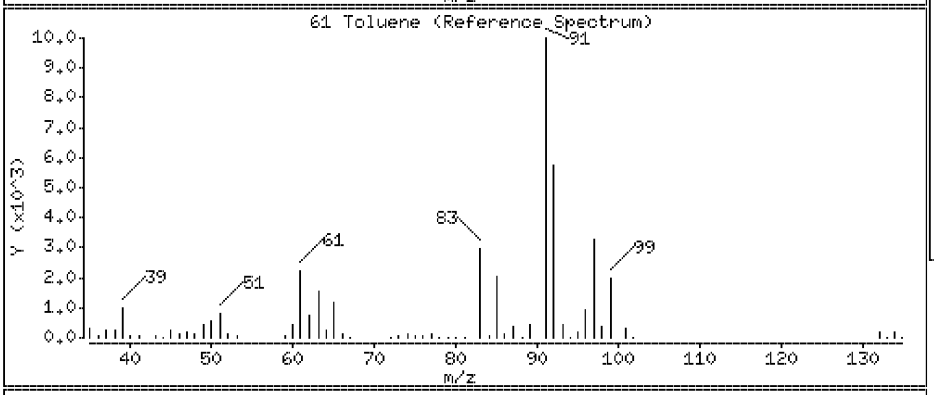
Concentration: 8.11 ppbv

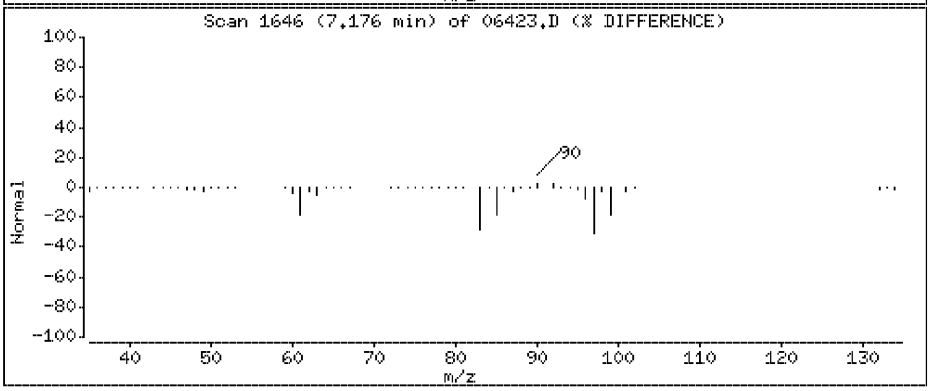












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

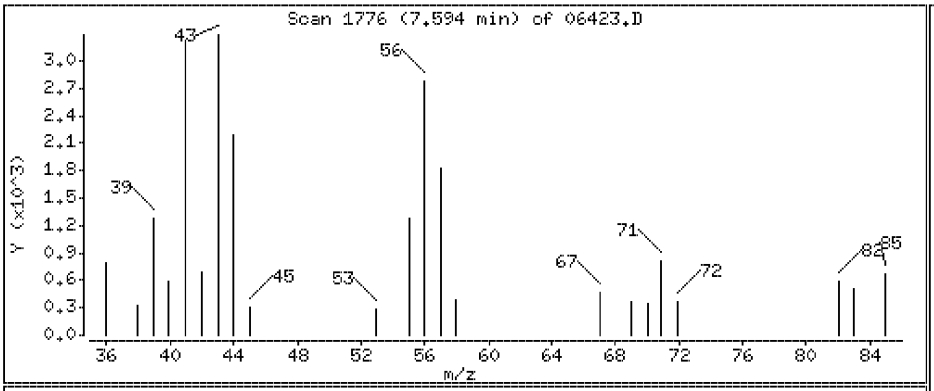
Operator: NCK

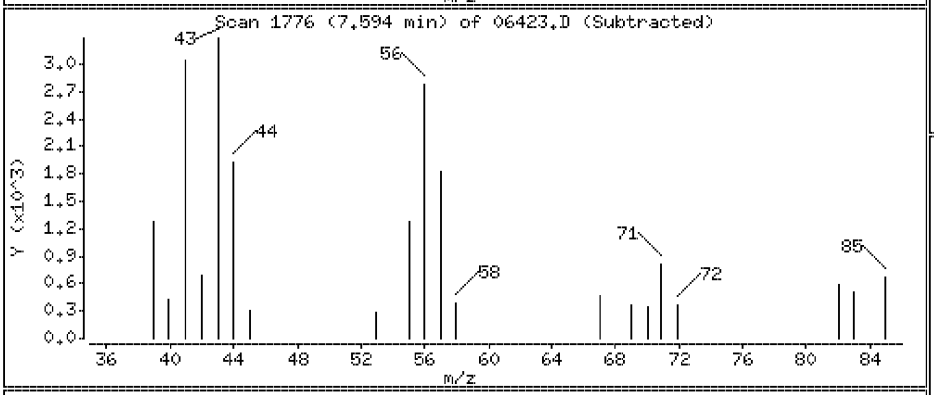
Column phase: J&W DB-5

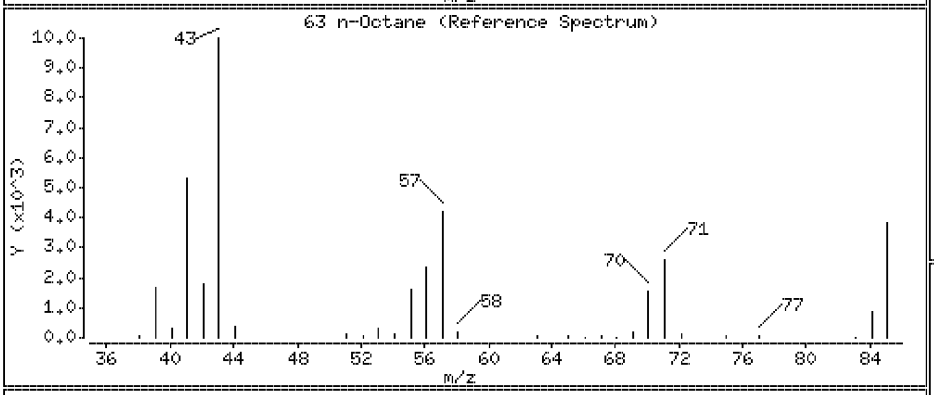
Column diameter: 0.32

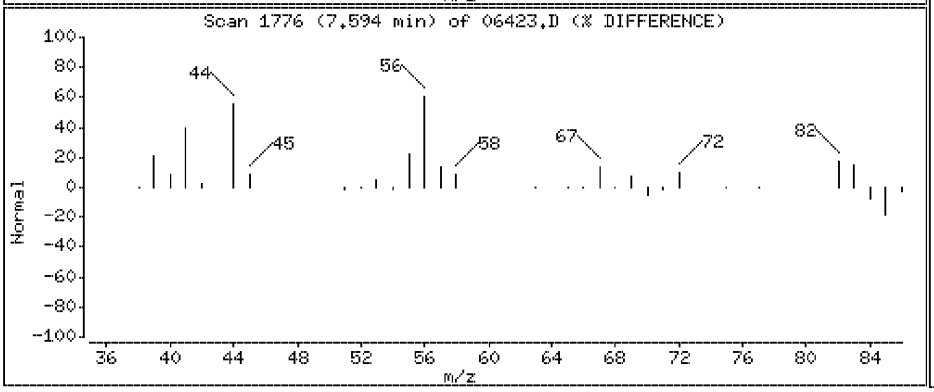
63 n-Octane

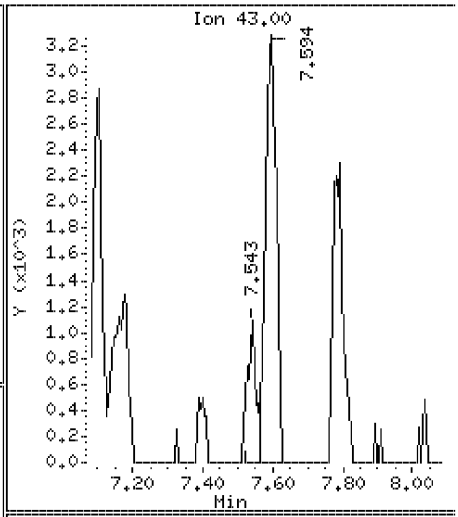
Concentration: 0.491 ppbv

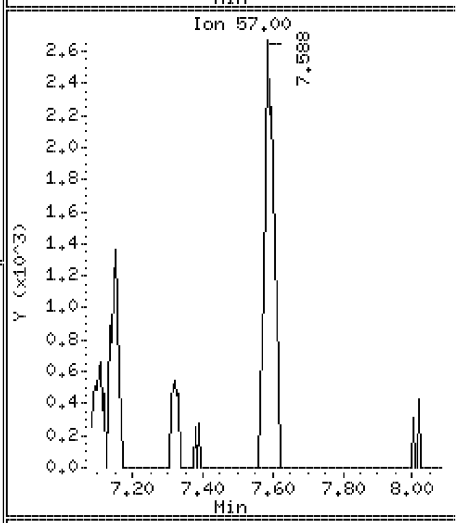


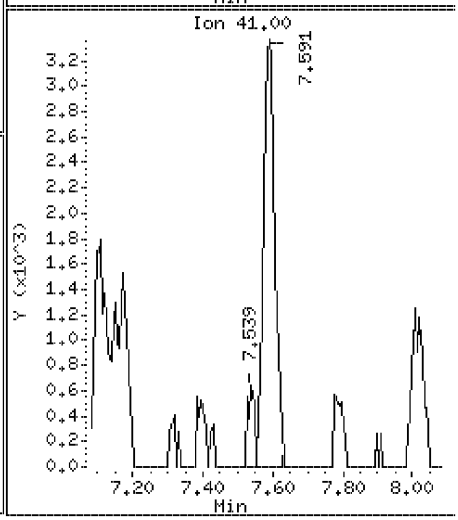












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

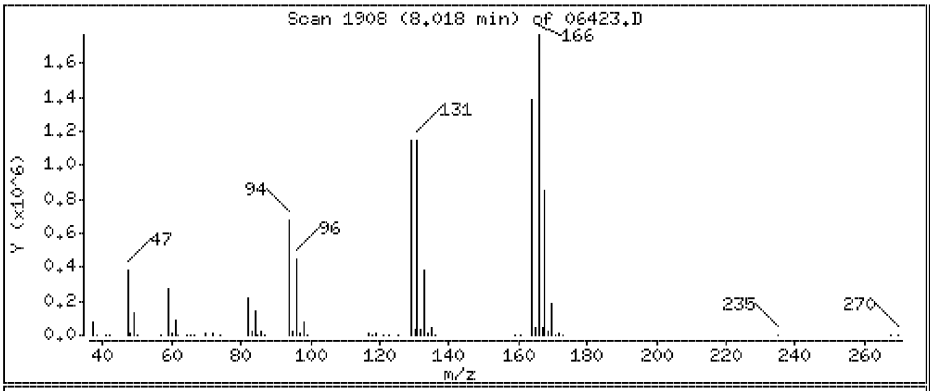
Operator: NCK

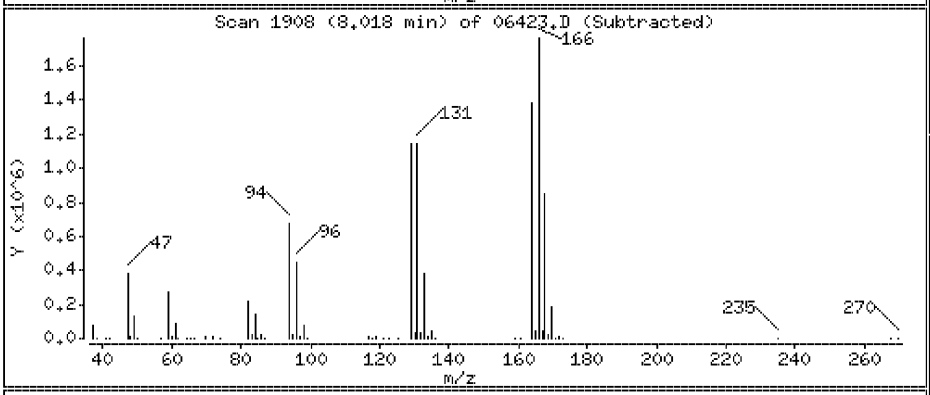
Column phase: J&W DB-5

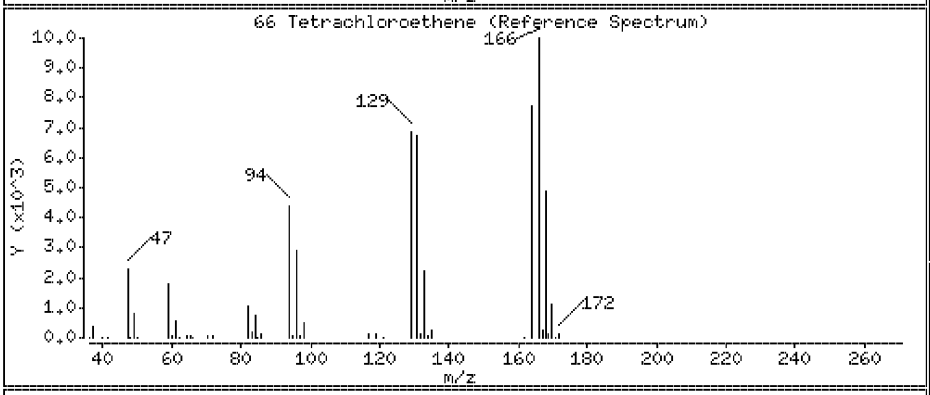
Column diameter: 0.32

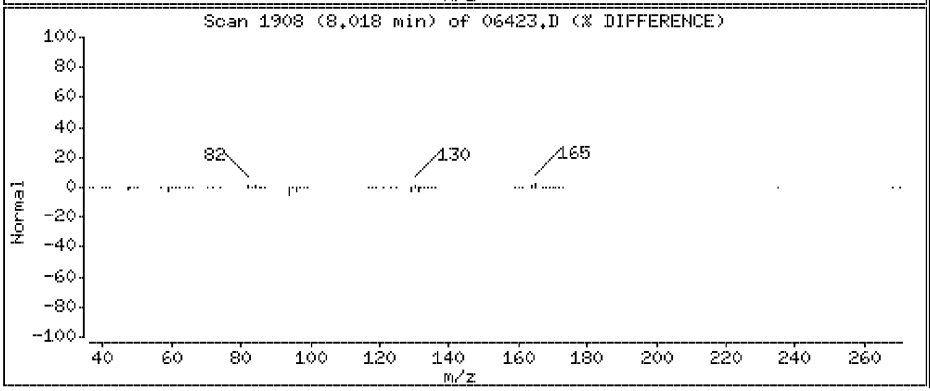
66 Tetrachloroethene

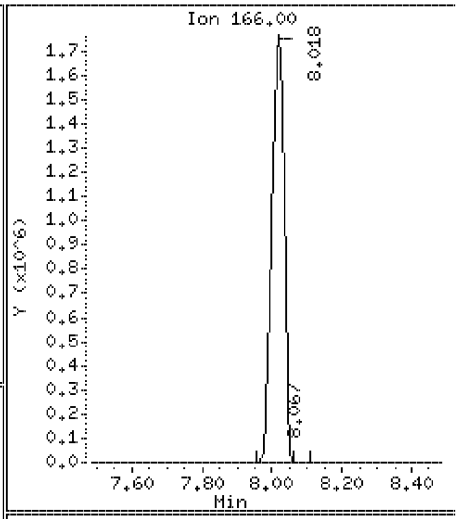
Concentration: 299 ppbv

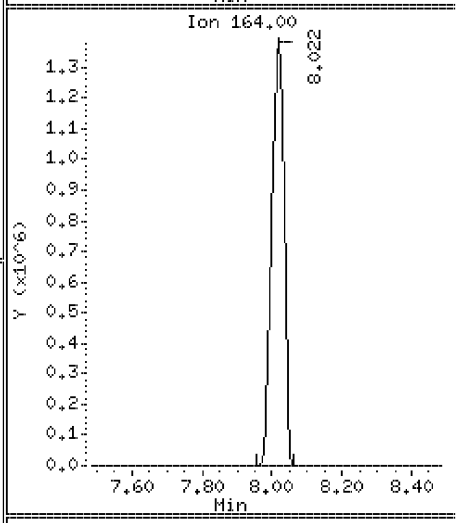


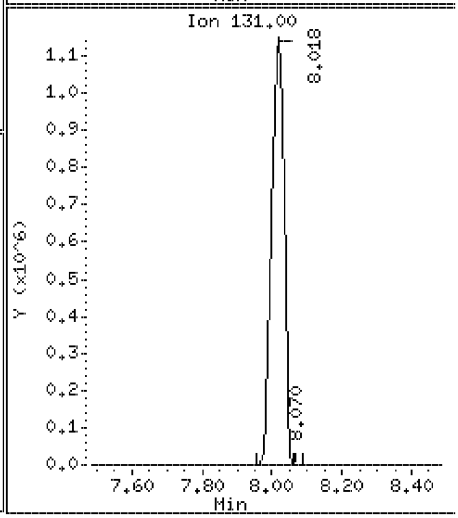












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

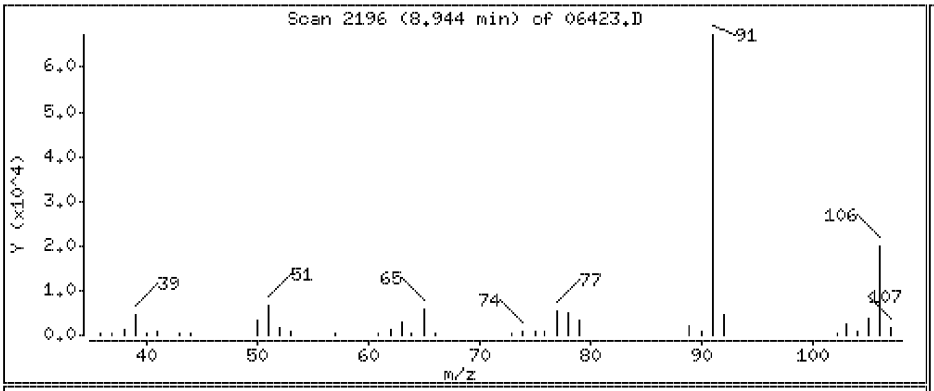
Operator: NCK

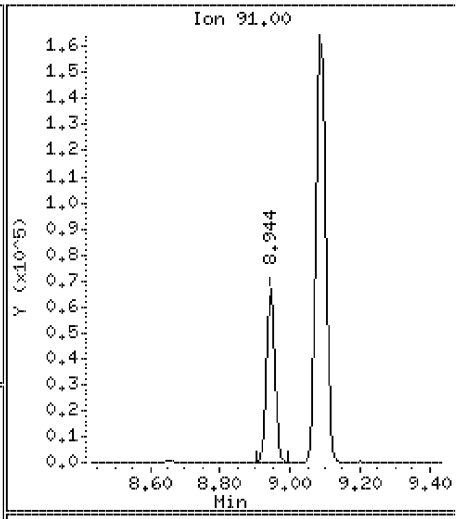
Column phase: J&W DB-5

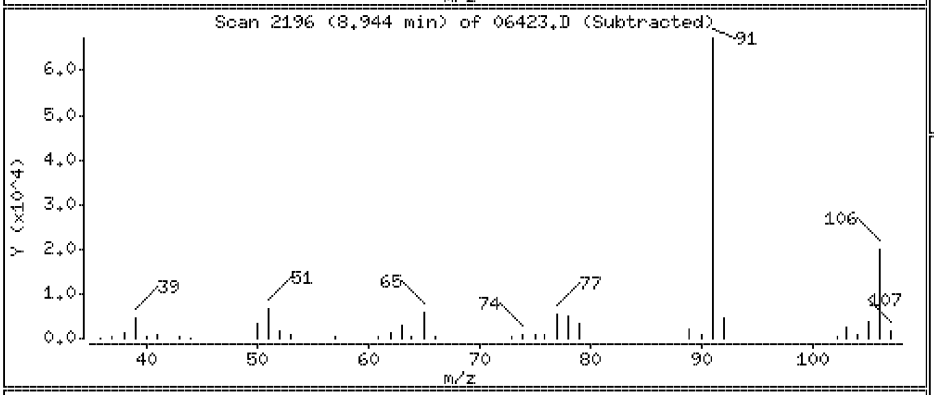
Column diameter: 0.32

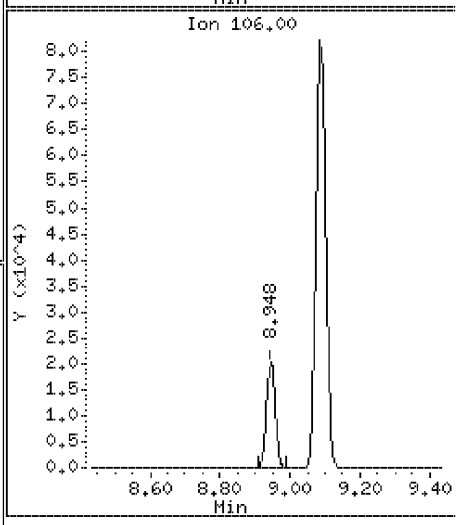
69 Ethyl Benzene

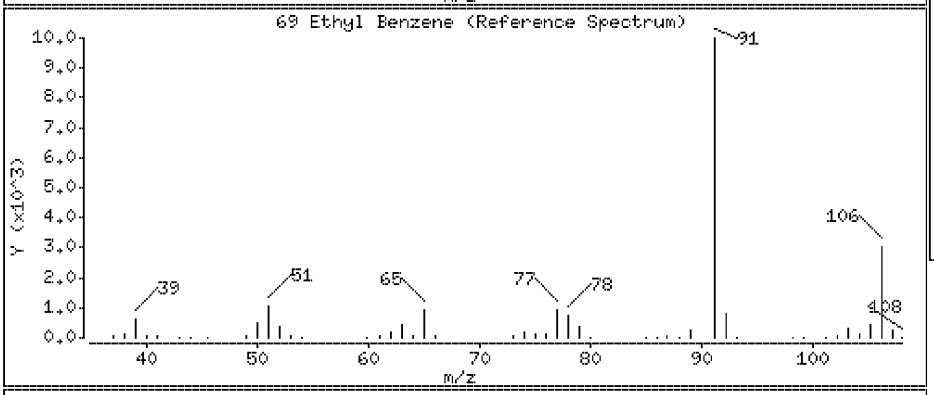
Concentration: 3.60 ppbv

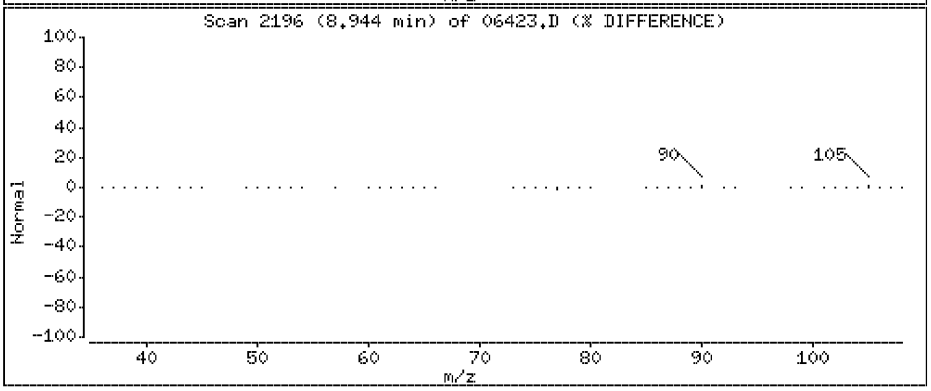












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

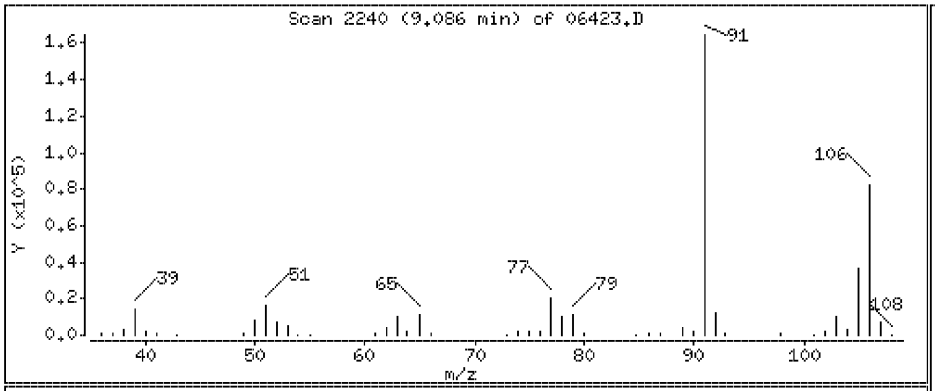
Operator: NCK

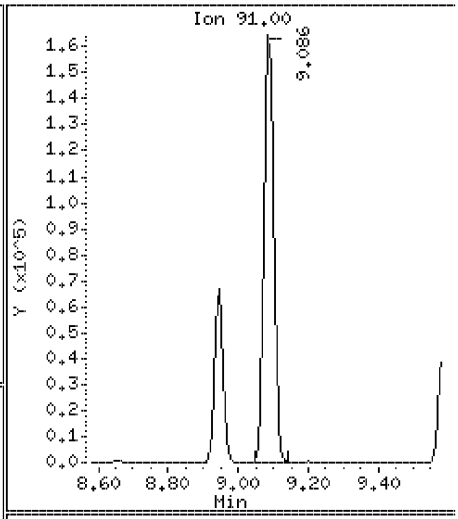
Column phase: J&W DB-5

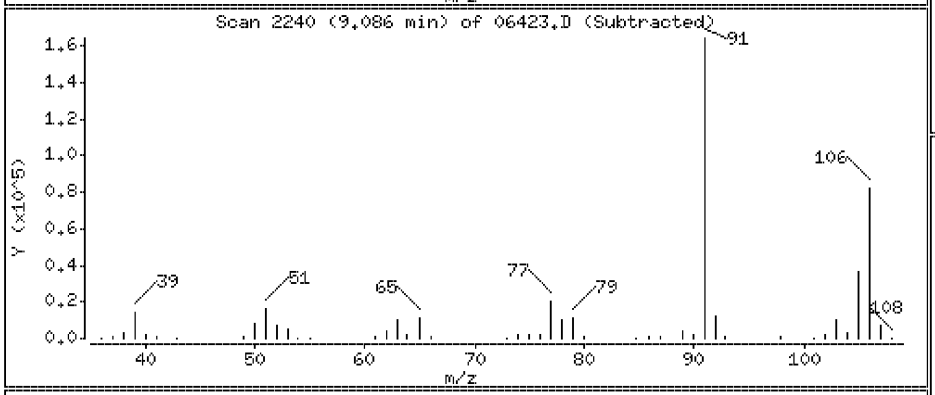
Column diameter: 0.32

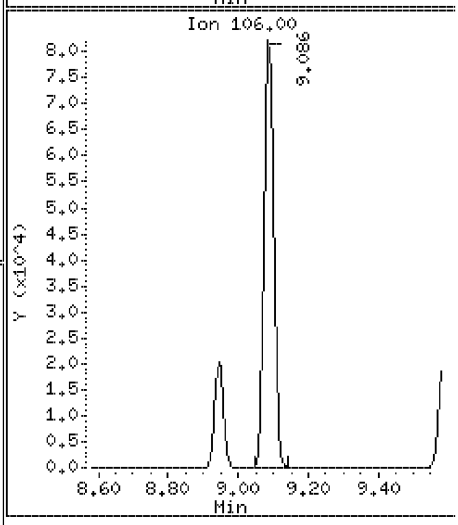
70 m&p-Xylene

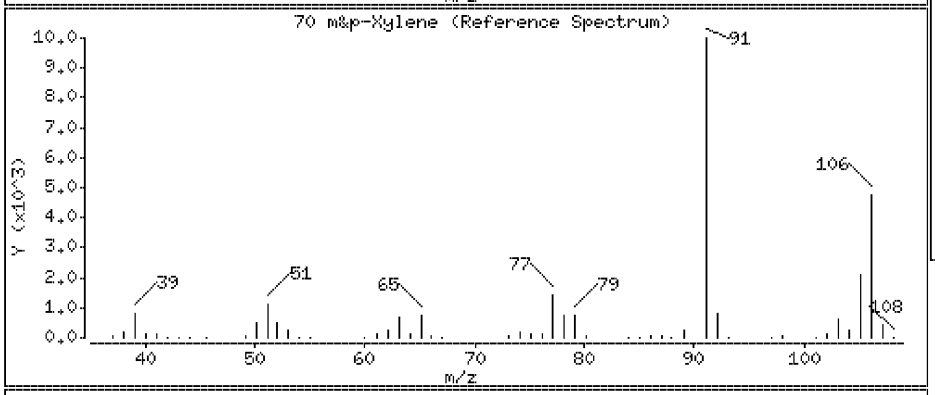
Concentration: 13.4 ppbv

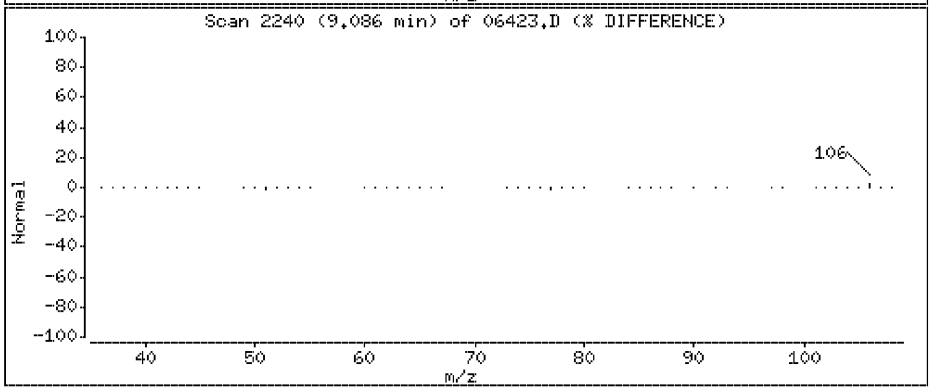












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

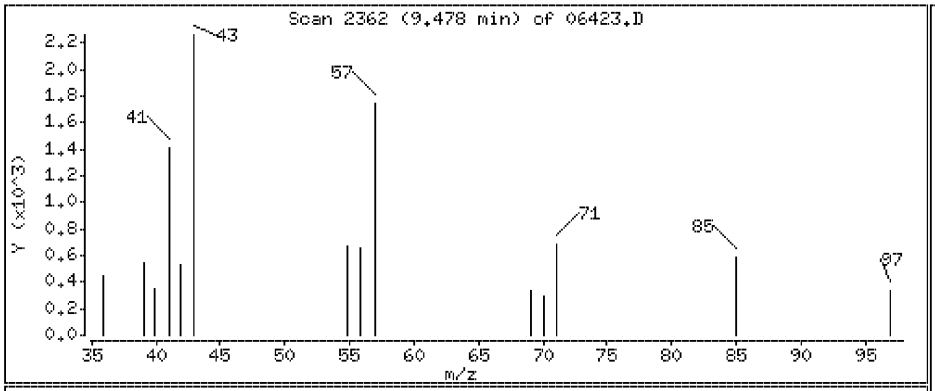
Operator: NCK

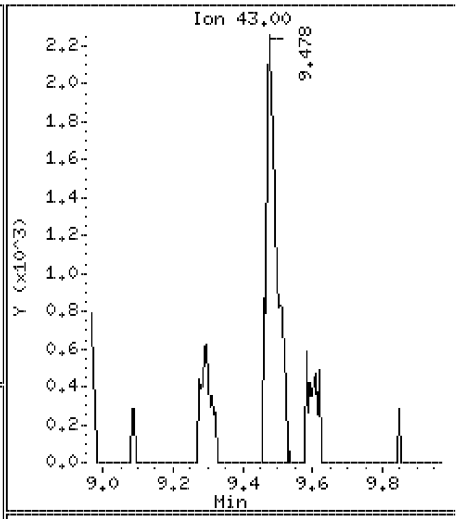
Column phase: J&W DB-5

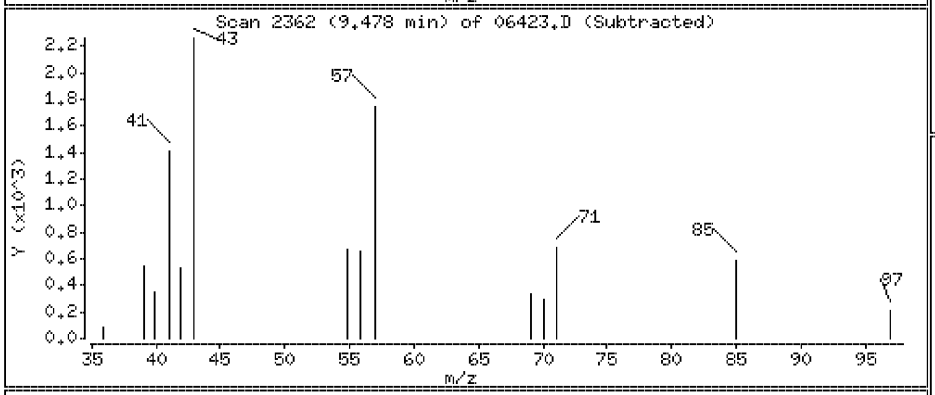
Column diameter: 0.32

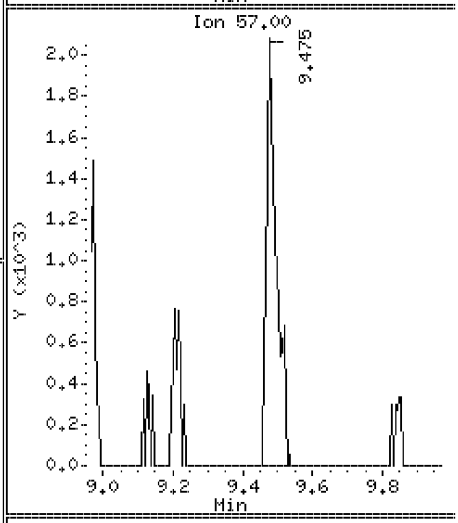
71 n-Nonane

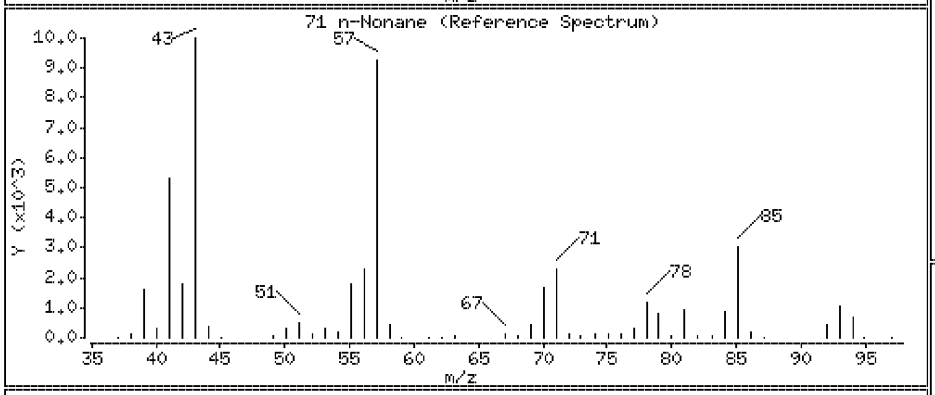
Concentration: 0.392 ppbv

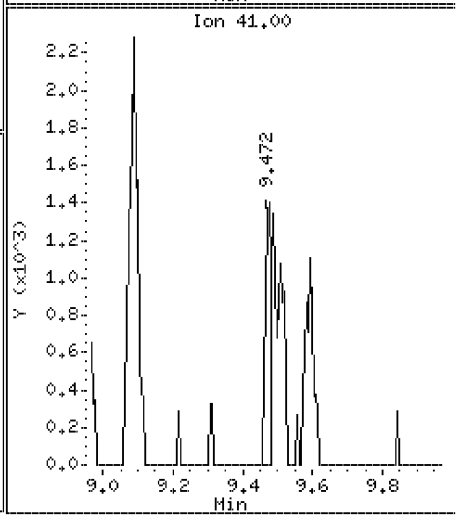


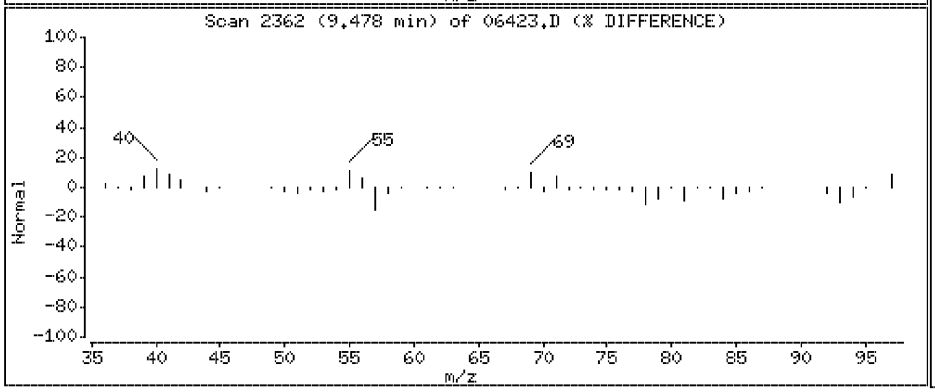












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

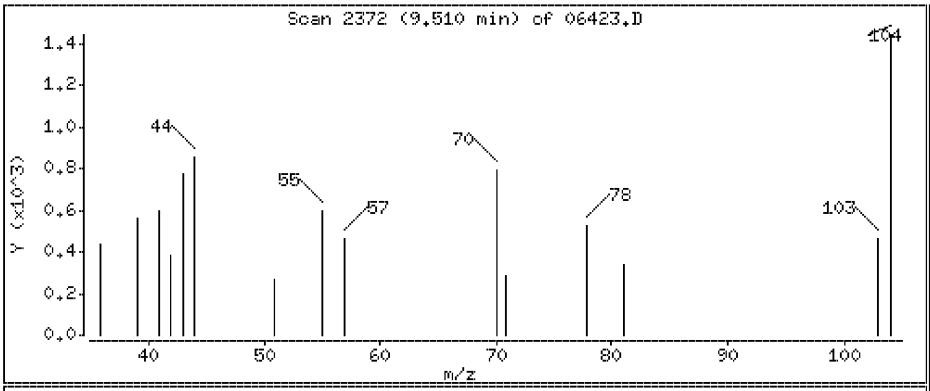
Operator: NCK

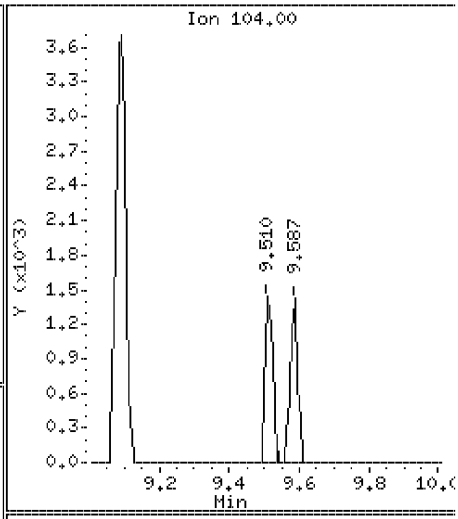
Column phase: J&W DB-5

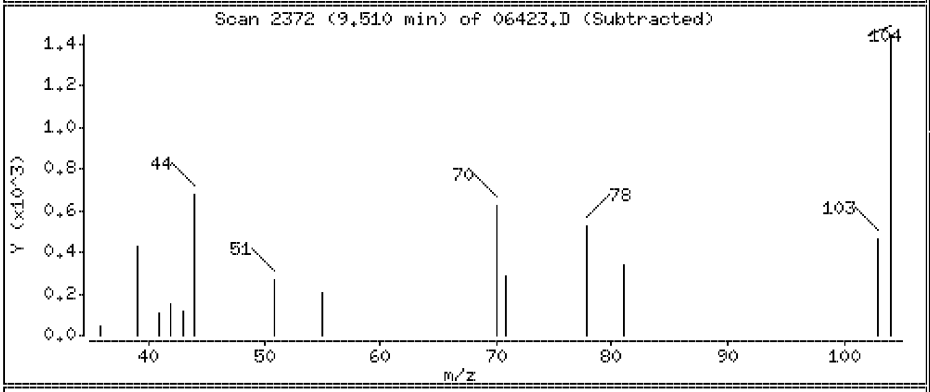
Column diameter: 0.32

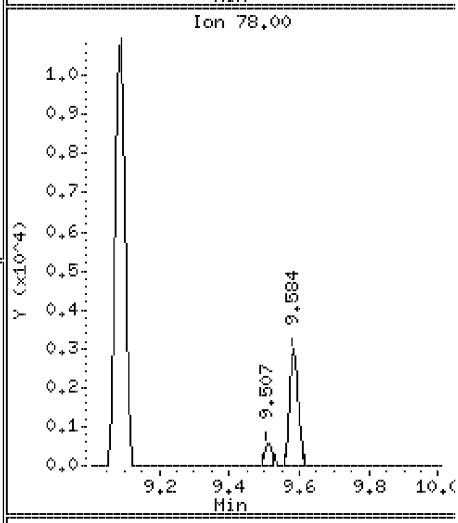
73 Styrene

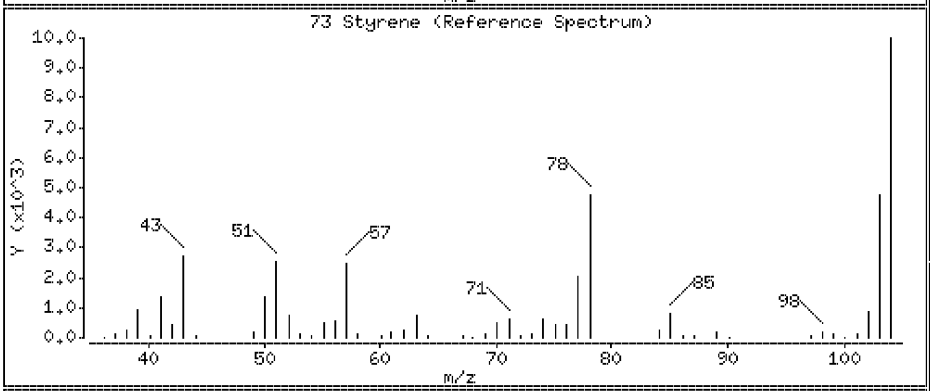
Concentration: 0.259 ppbv

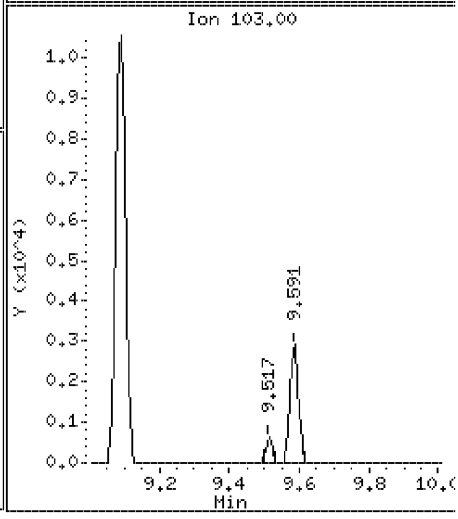


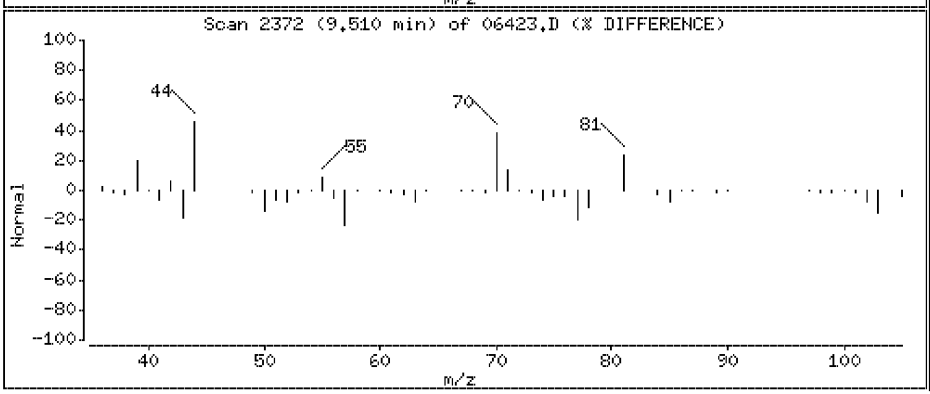












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

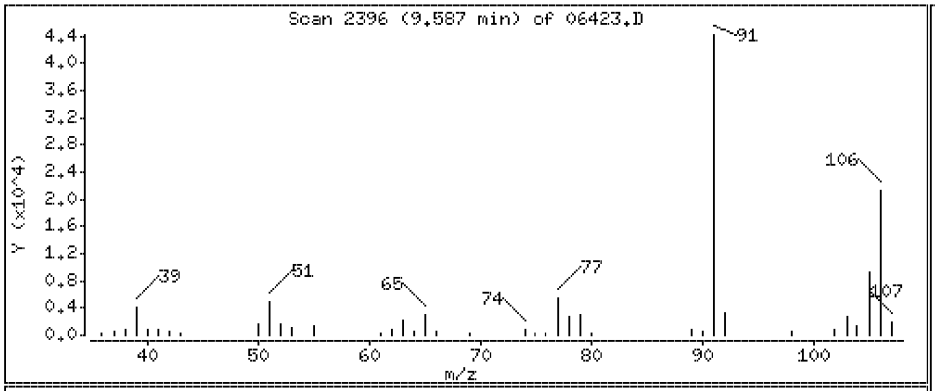
Operator: NCK

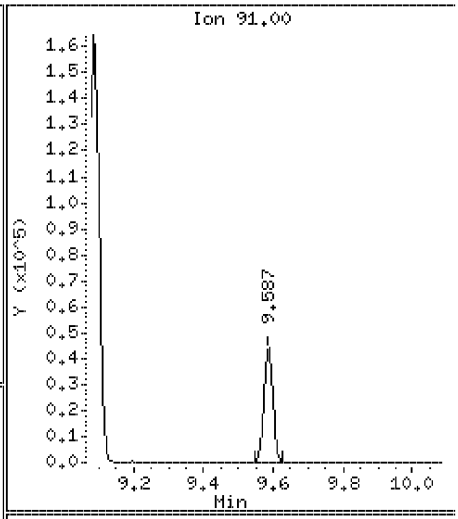
Column phase: J&W DB-5

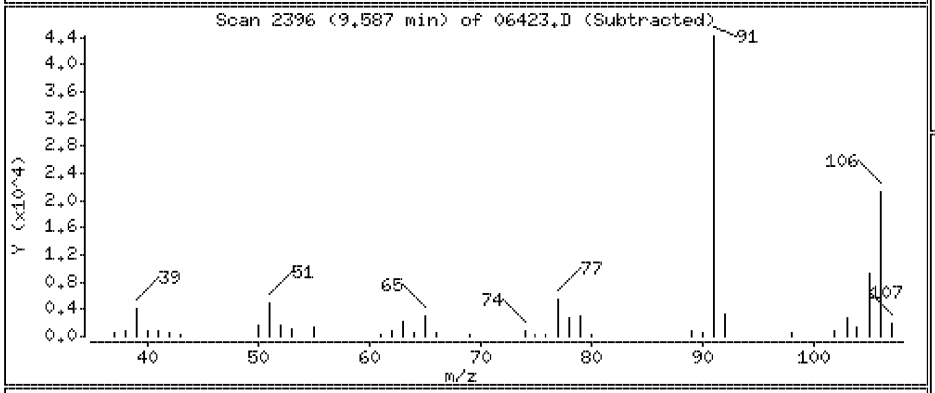
Column diameter: 0.32

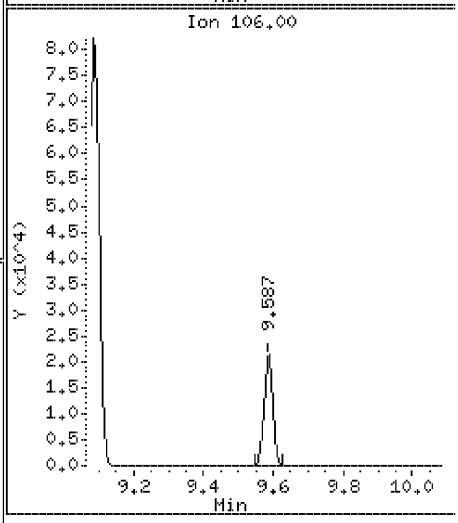
74 o-Xylene

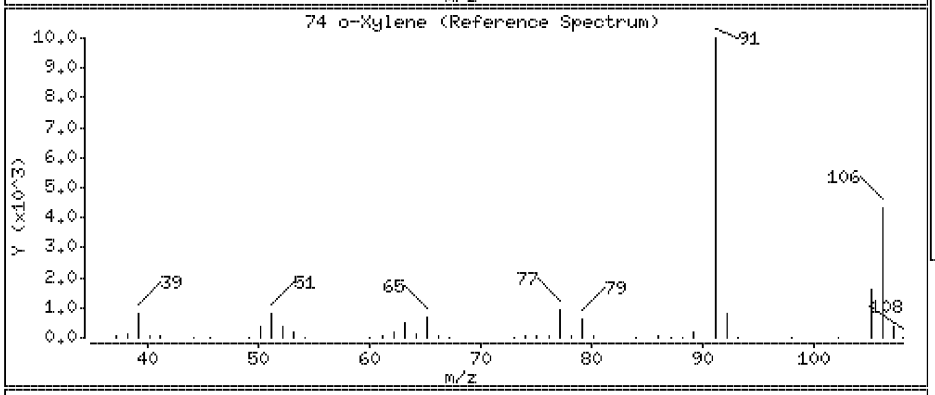
Concentration: 3.10 ppbv

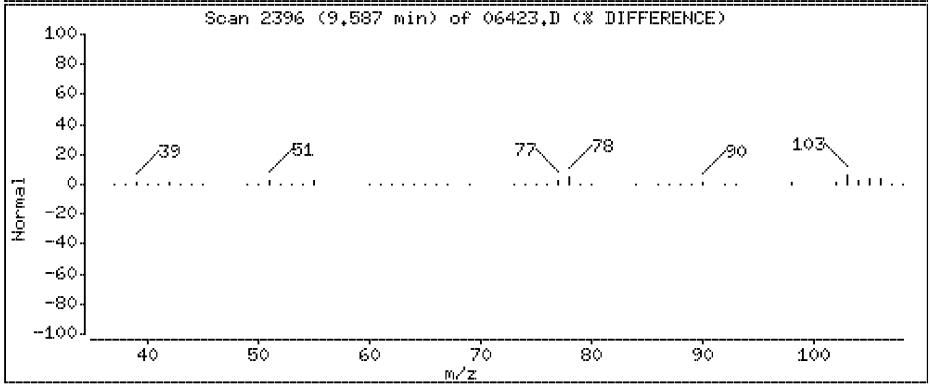












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

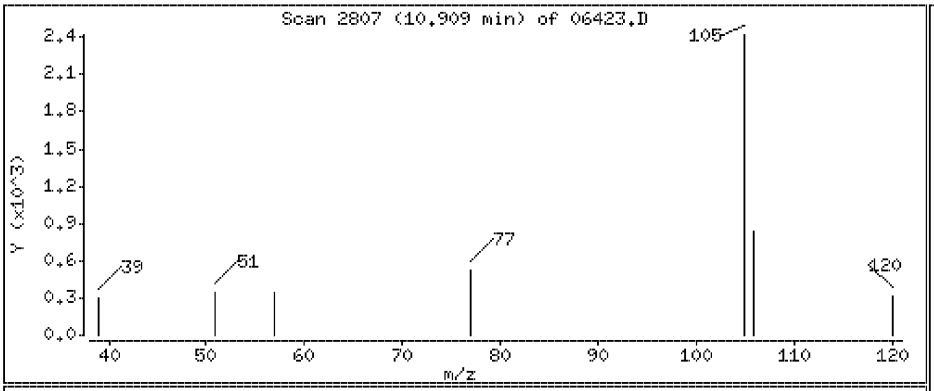
Operator: NCK

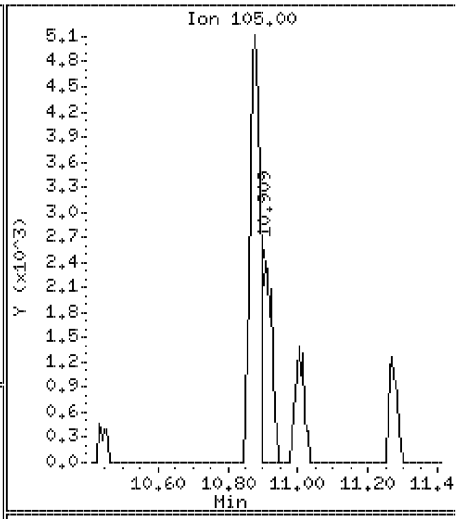
Column phase: J&W DB-5

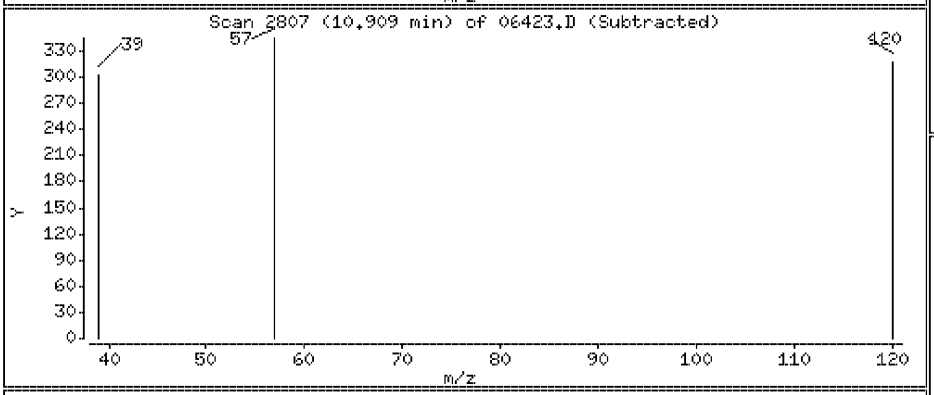
Column diameter: 0.32

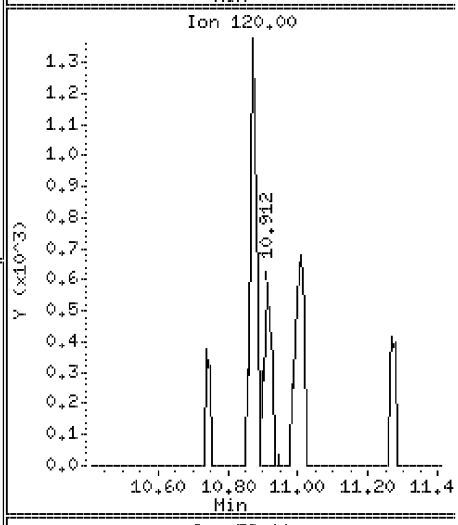
78 4-Ethyltoluene

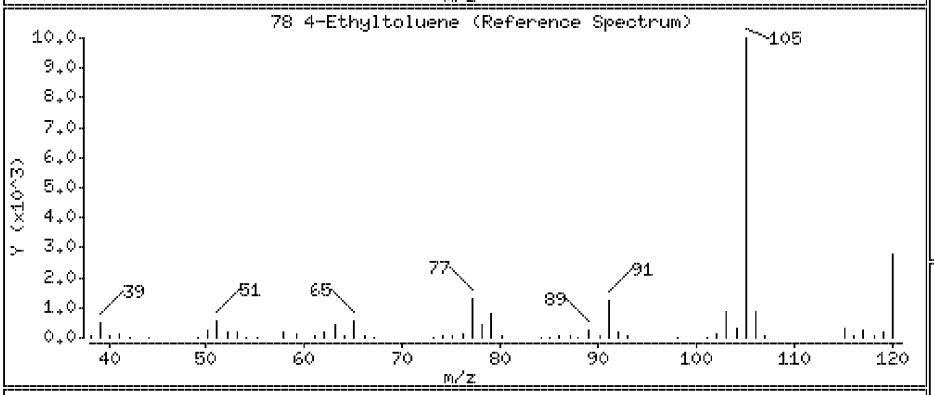
Concentration: 0.326 ppbv

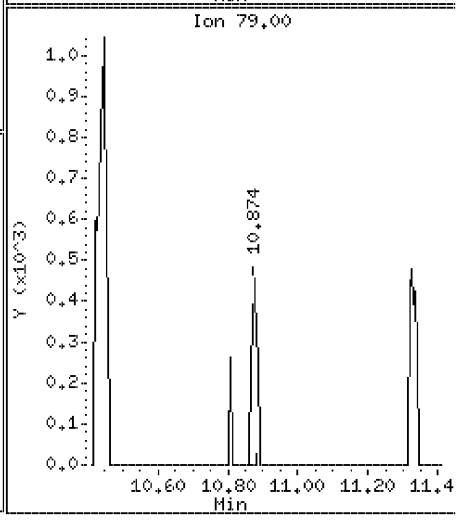


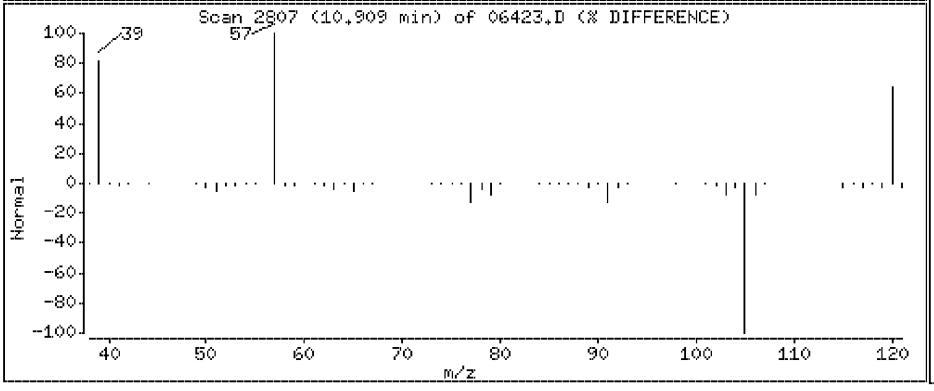












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

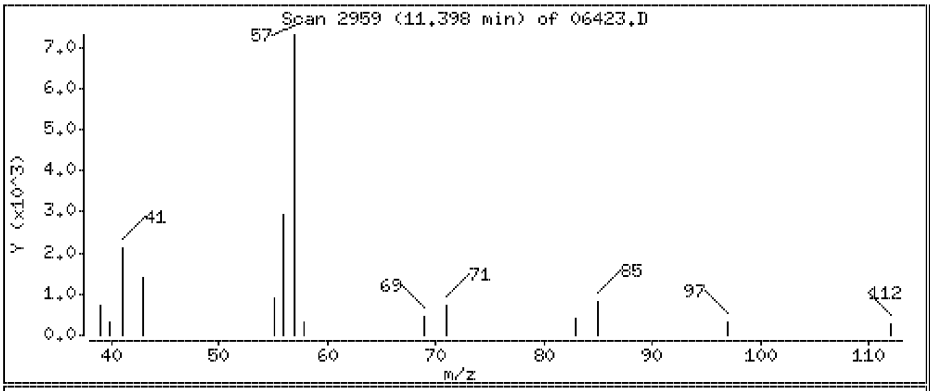
Operator: NCK

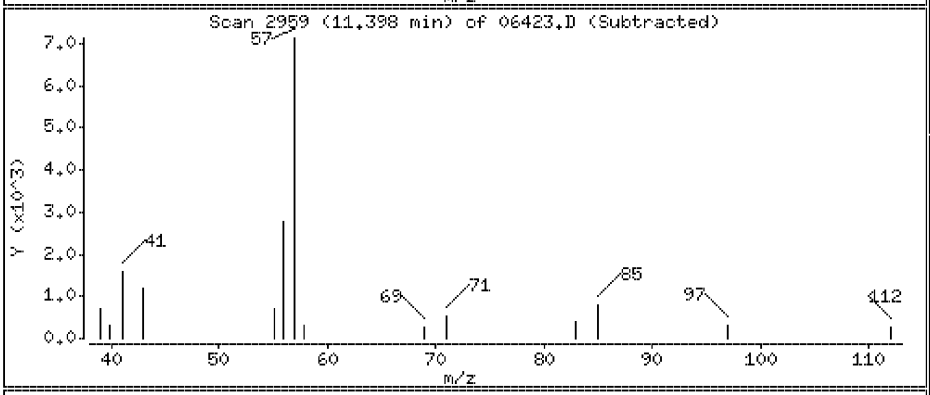
Column phase: J&W DB-5

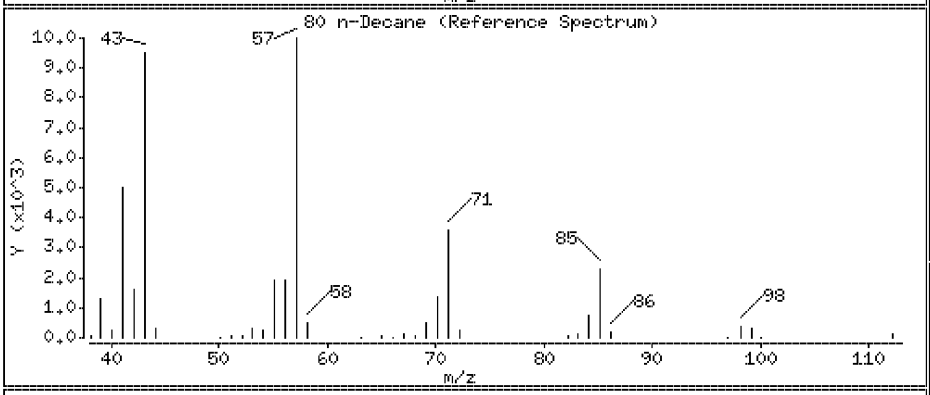
Column diameter: 0.32

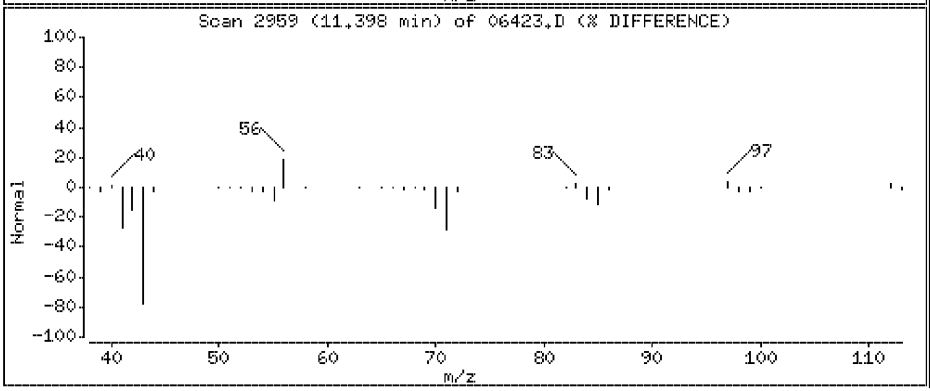
80 n-Decane

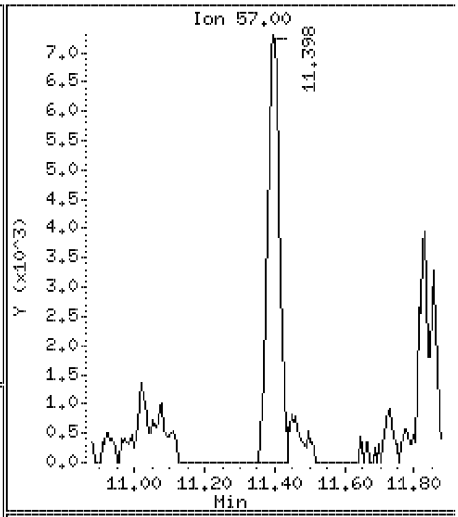
Concentration: 1.47 ppbv

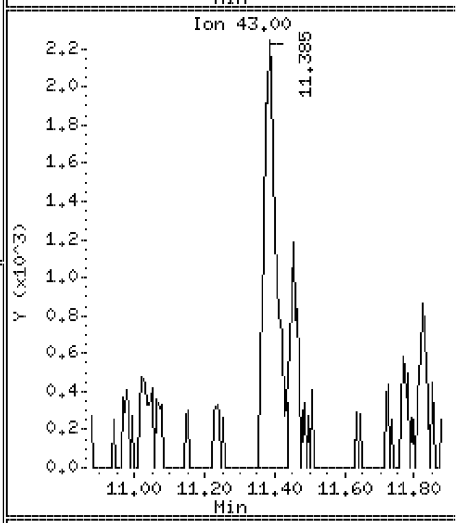


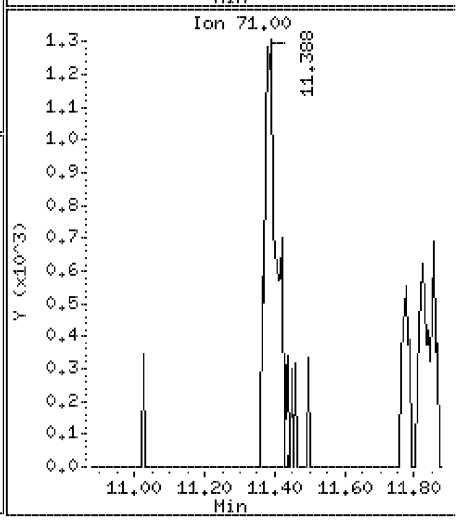












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

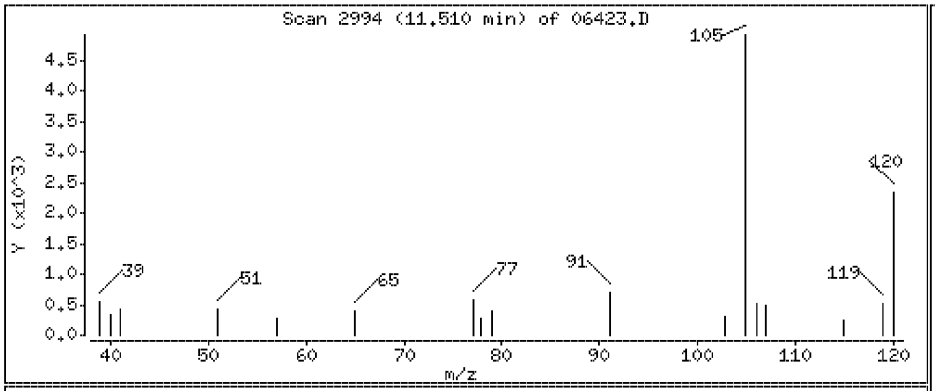
Operator: NCK

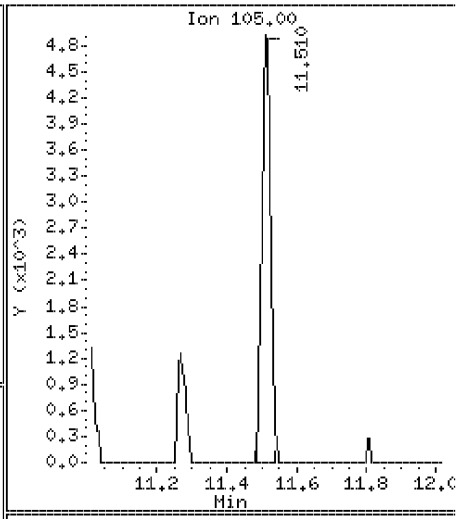
Column phase: J&W DB-5

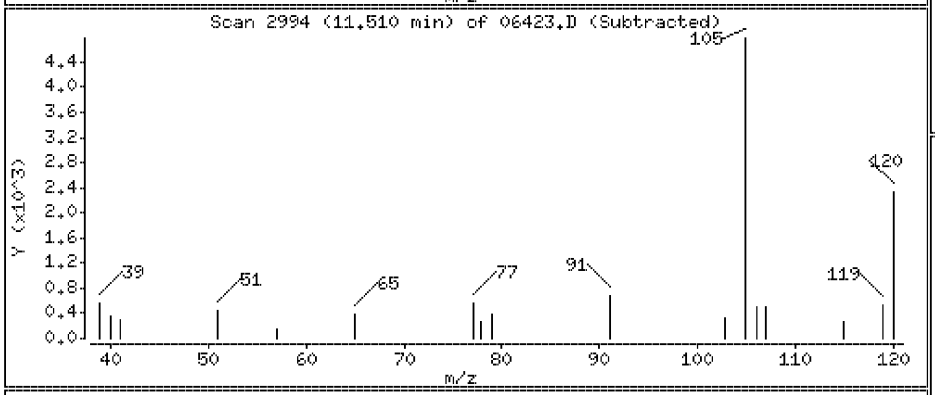
Column diameter: 0.32

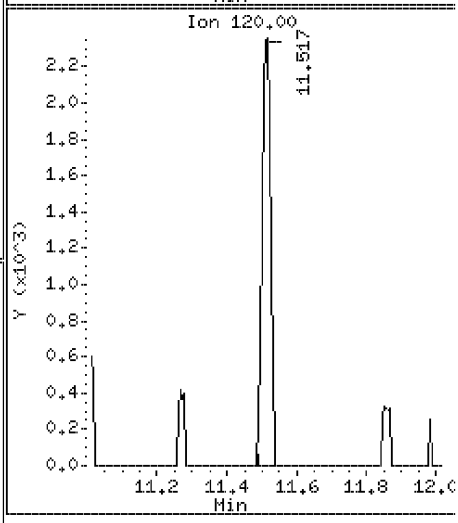
82 1,2,4-Trimethylbenzene

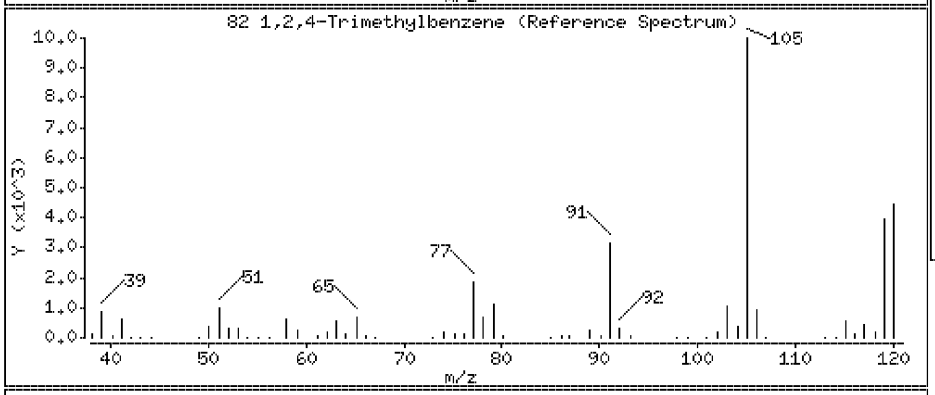
Concentration: 0.327 ppbv

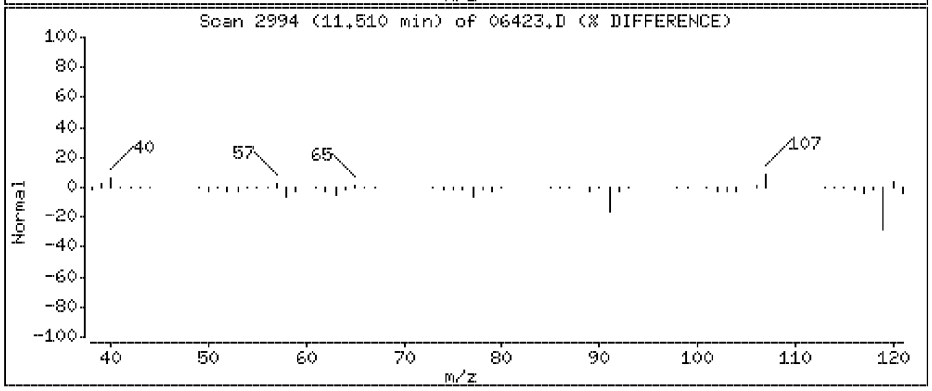












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06423.D

Date : 05-MAR-2017 20:31

Client ID:

Instrument: 10airB.i

Sample Info:

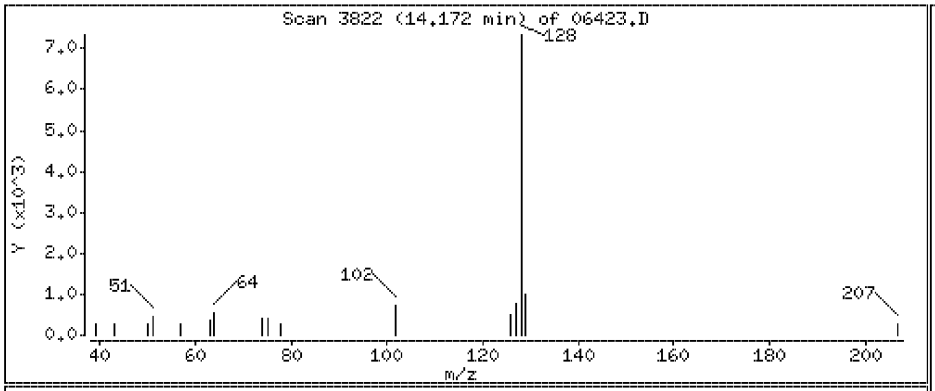
Operator: NCK

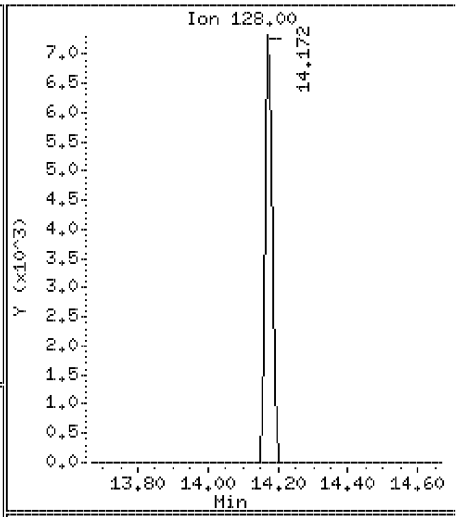
Column phase: J&W DB-5

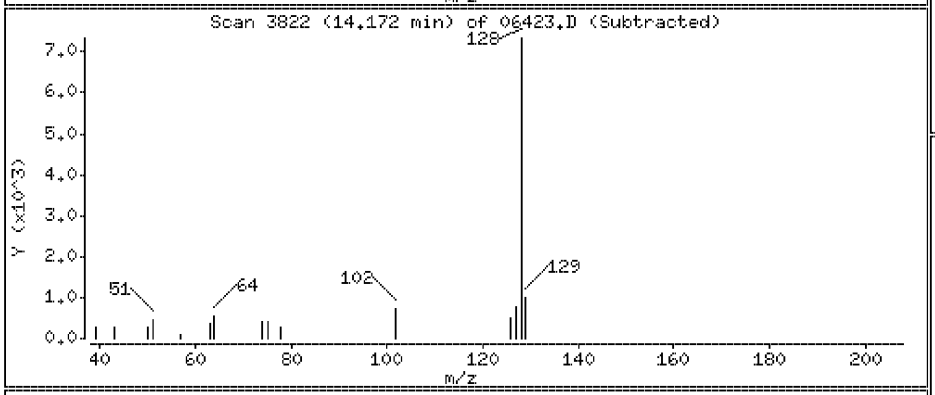
Column diameter: 0.32

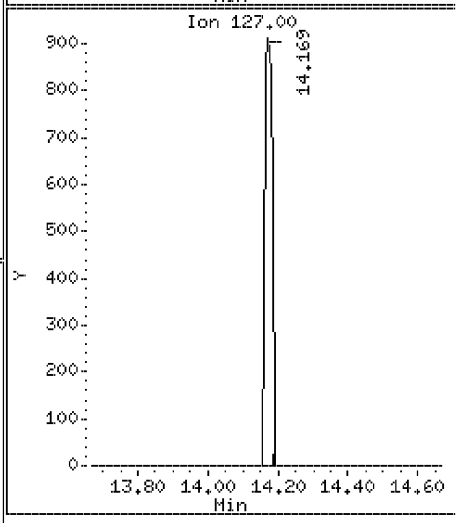
94 Naphthalene

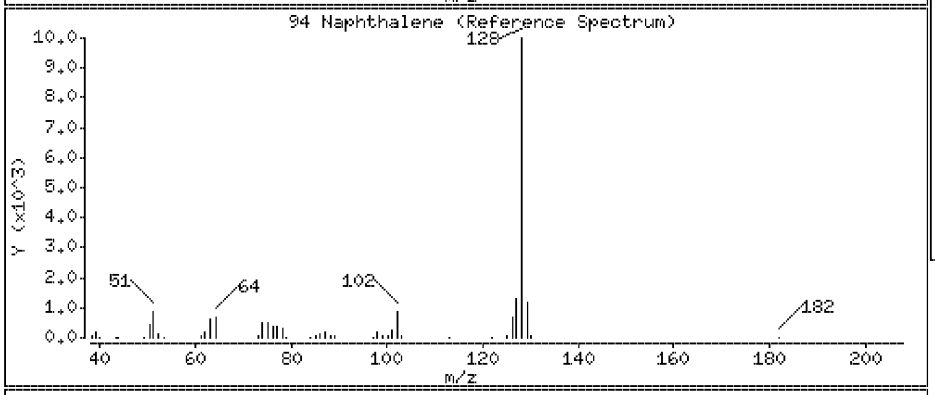
Concentration: 1.26 ppbv

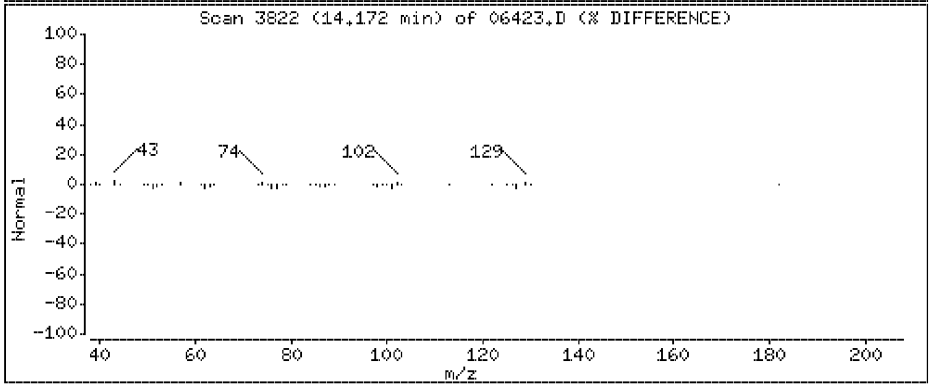






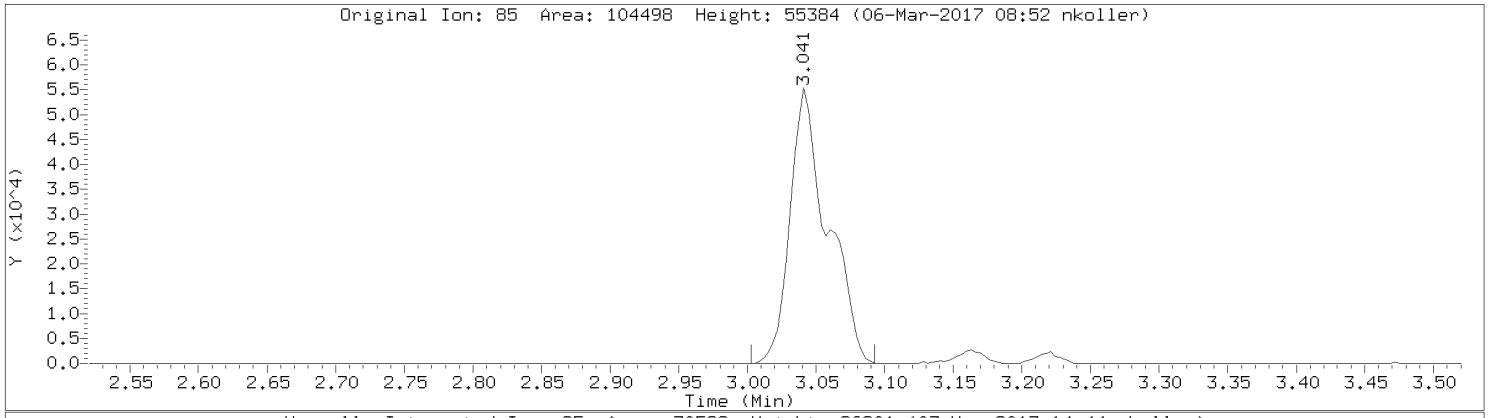


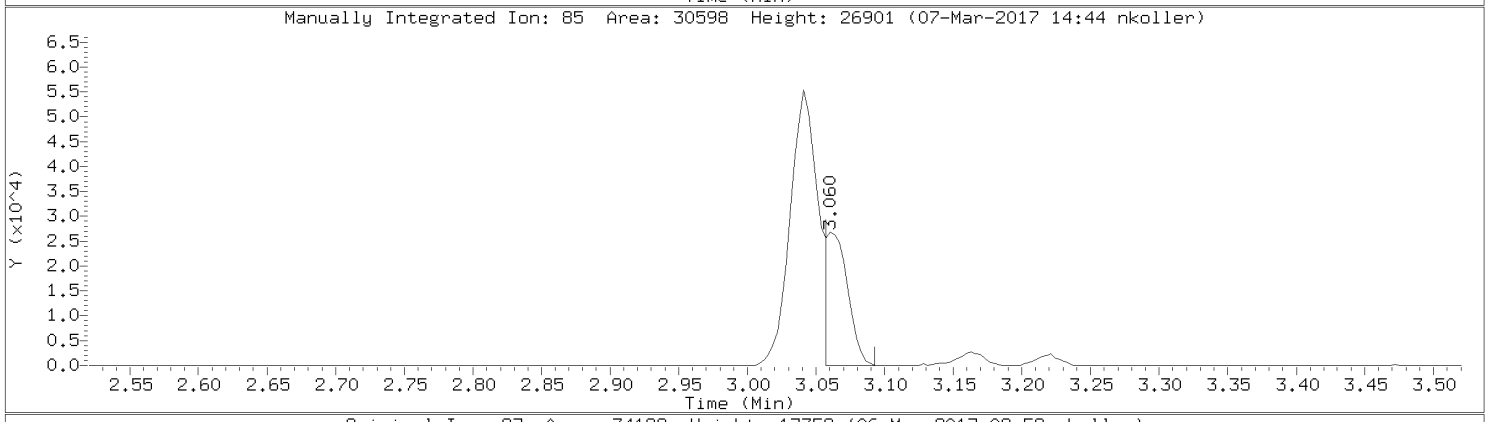


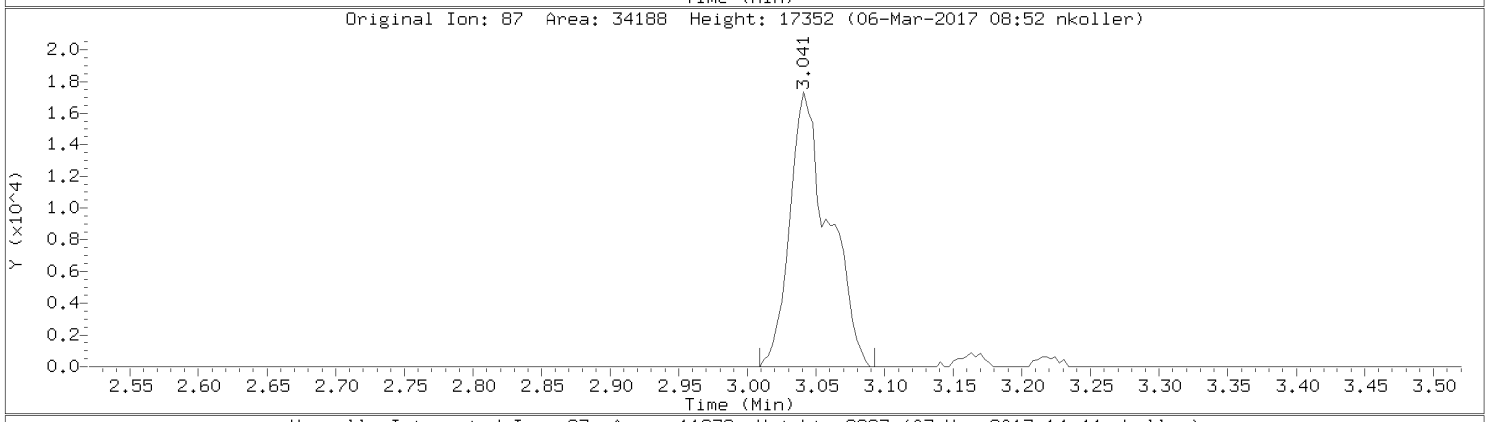


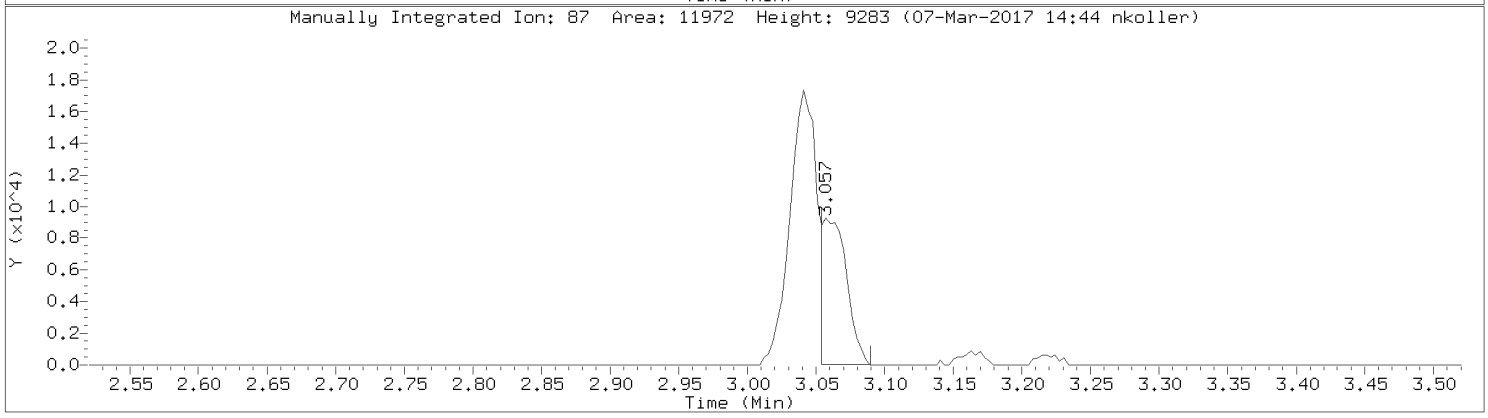
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06423.D
Injection Date: 05-MAR-2017 20:31
Instrument: 10airB.i
Lab Sample ID: 10380193004

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



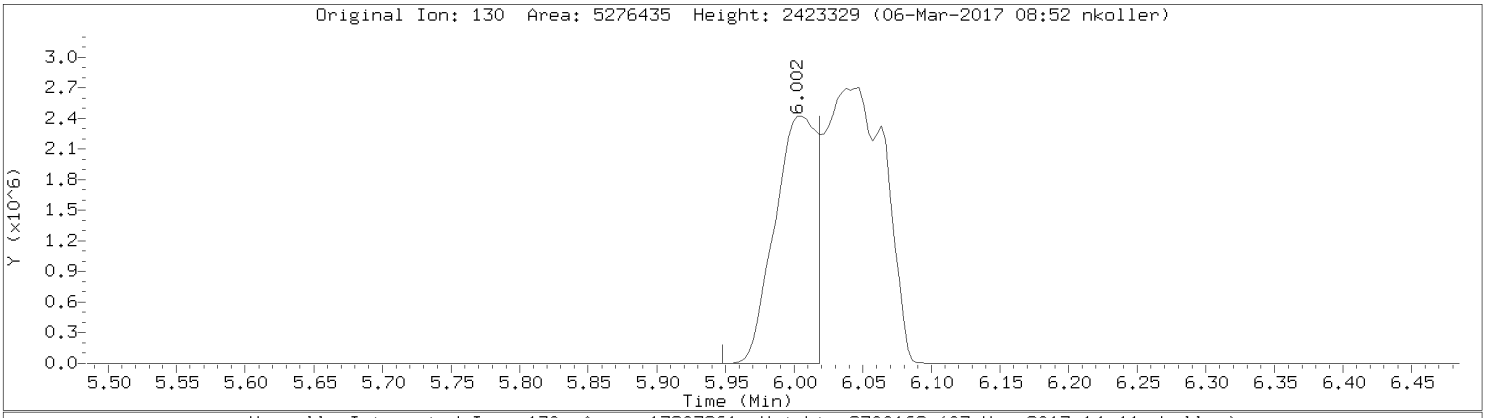


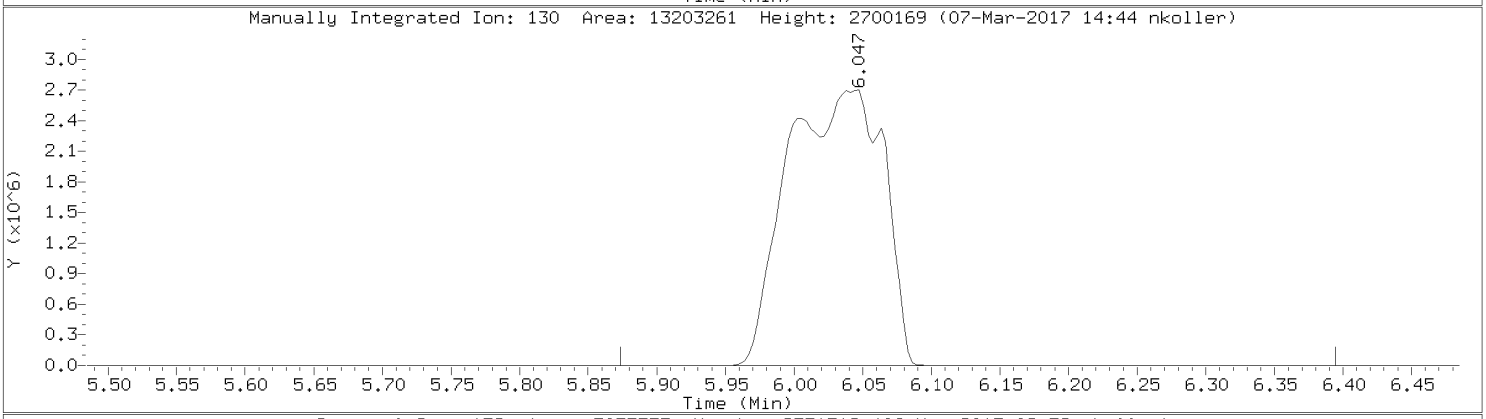


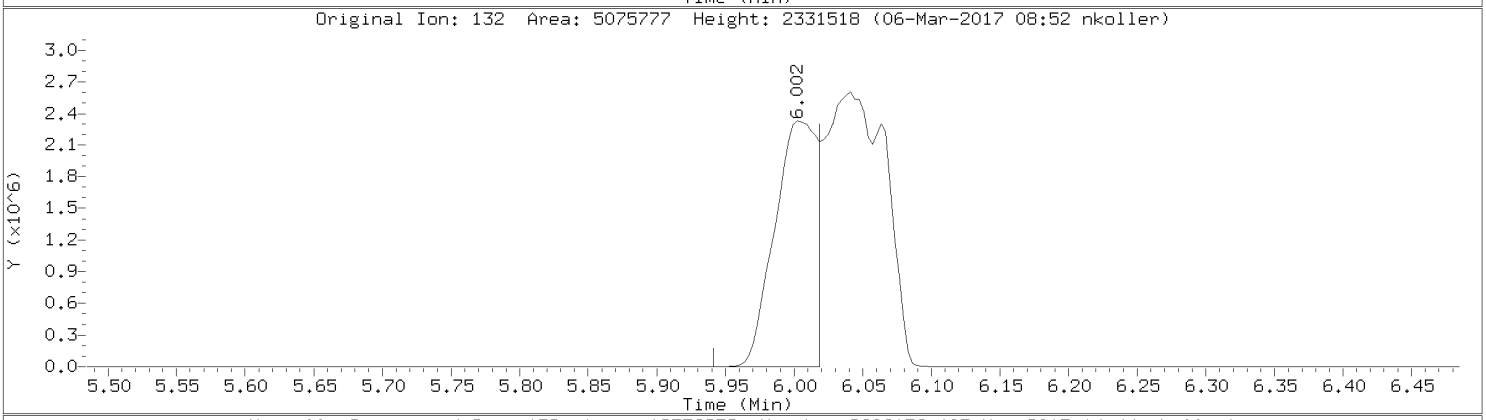


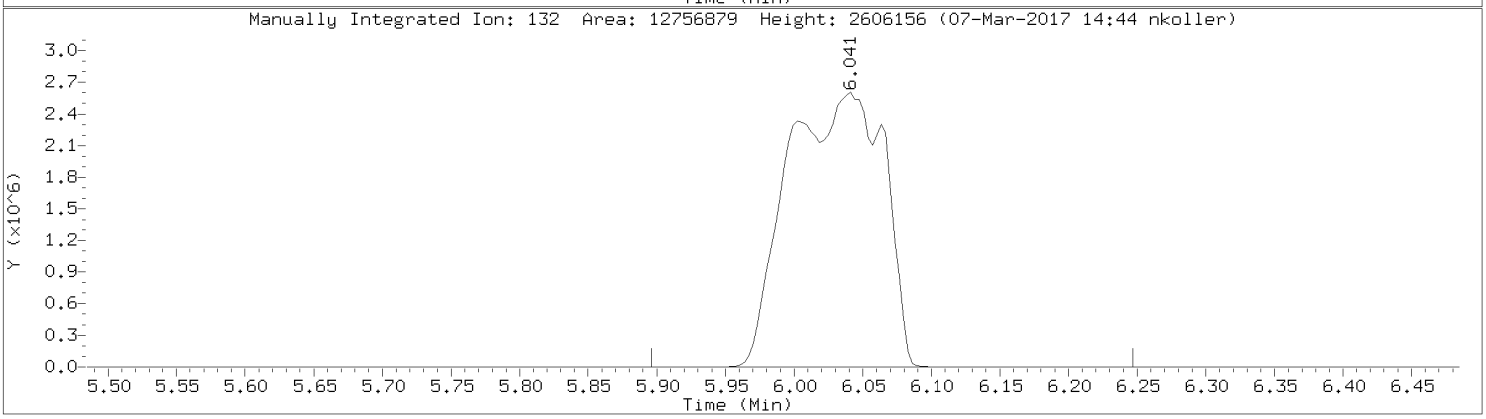
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06423.D
Injection Date: 05-MAR-2017 20:31
Instrument: 10airB.i
Lab Sample ID: 10380193004

Compound: Trichloroethene
CAS Number: 79-01-6

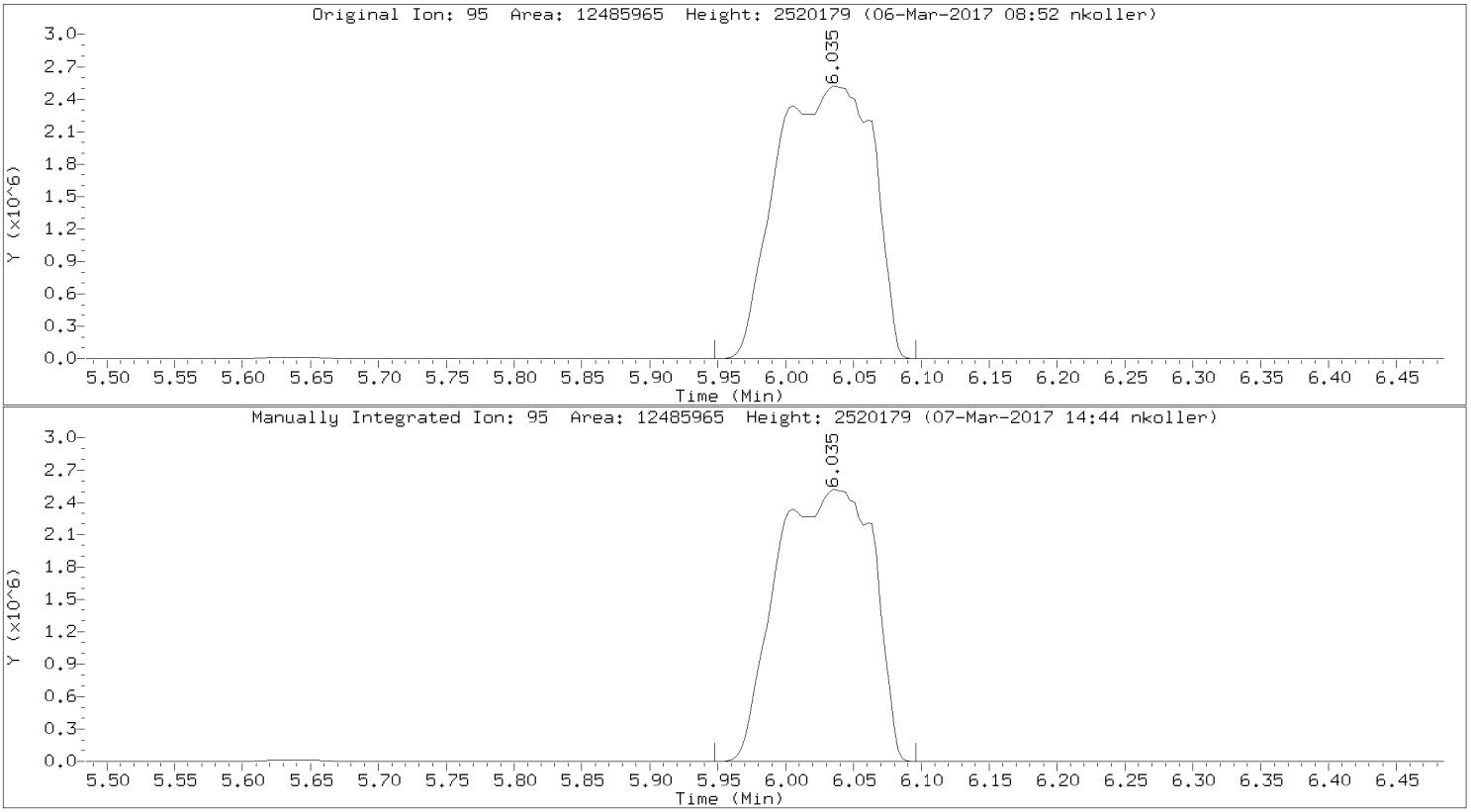






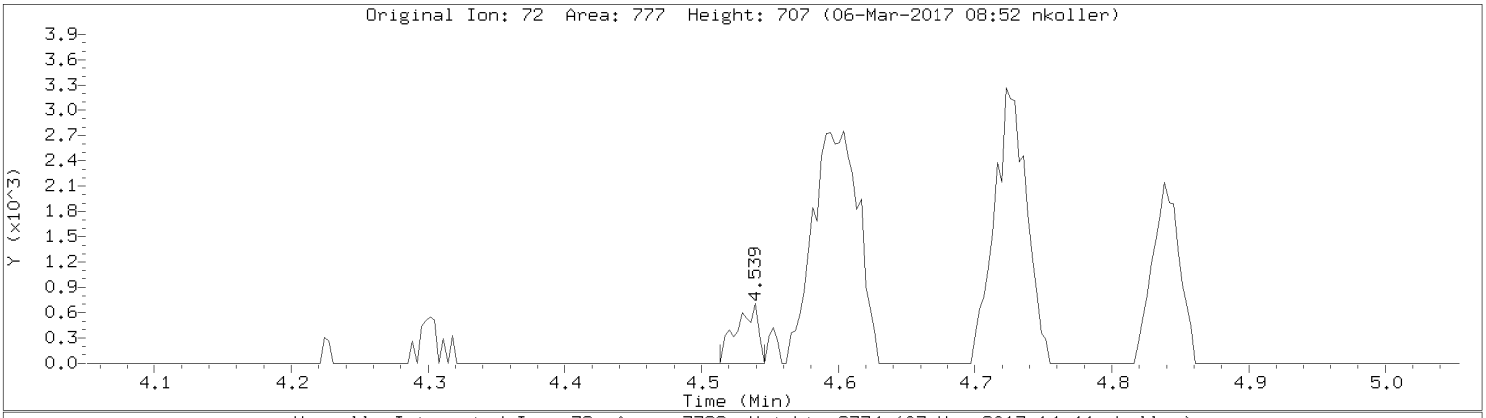


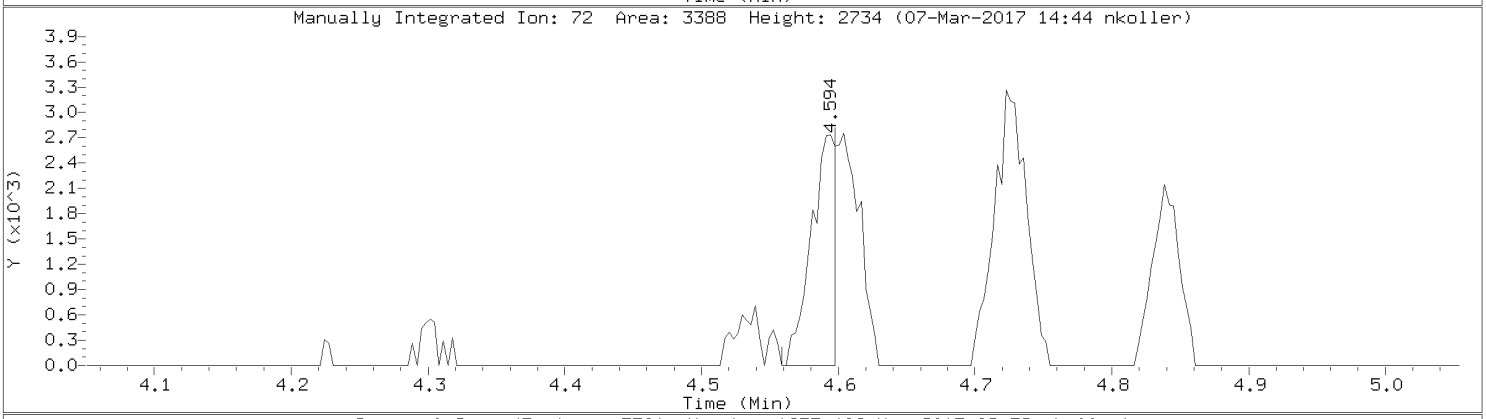
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06423.D
Injection Date: 05-MAR-2017 20:31
Instrument: 10airB.i
Lab Sample ID: 10380193004

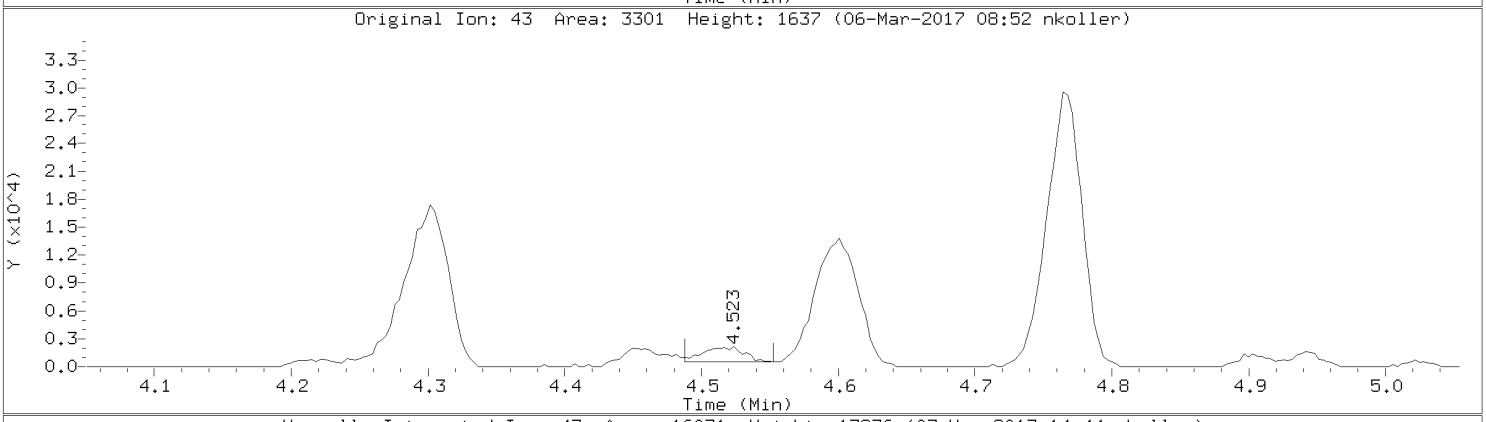


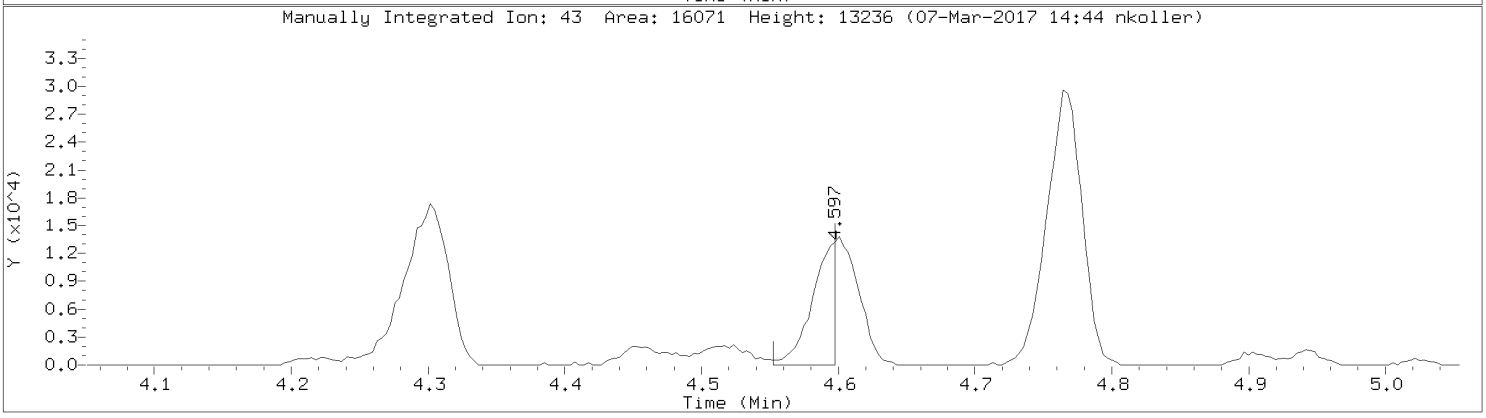
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06423.D
Injection Date: 05-MAR-2017 20:31
Instrument: 10airB.i
Lab Sample ID: 10380193004

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



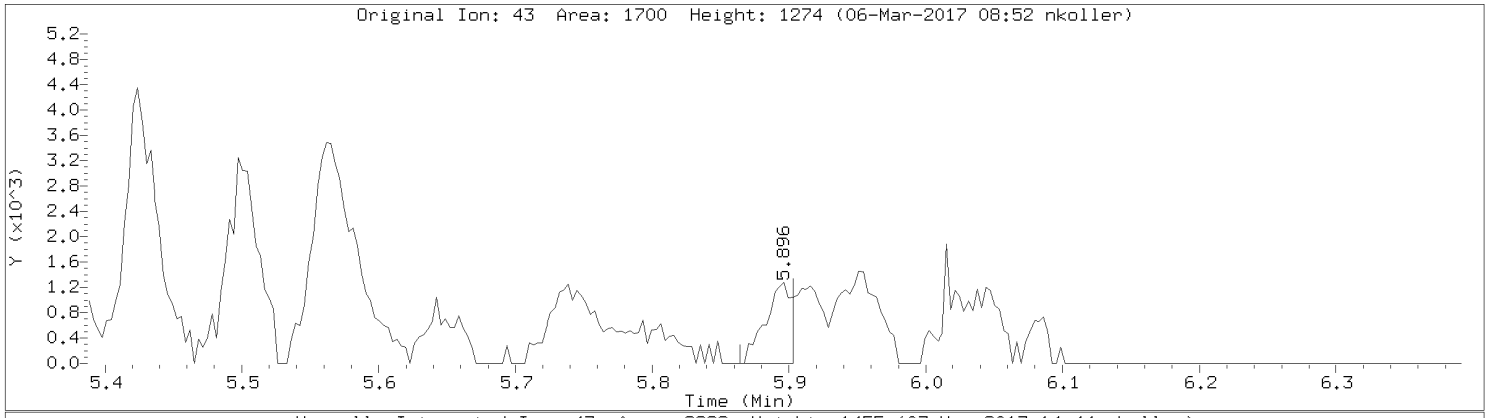


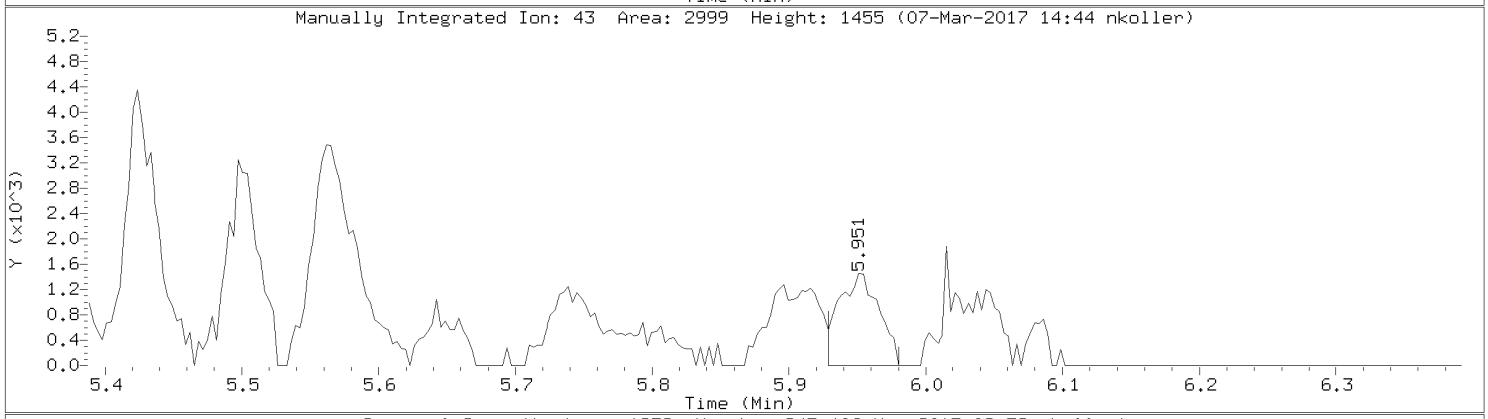


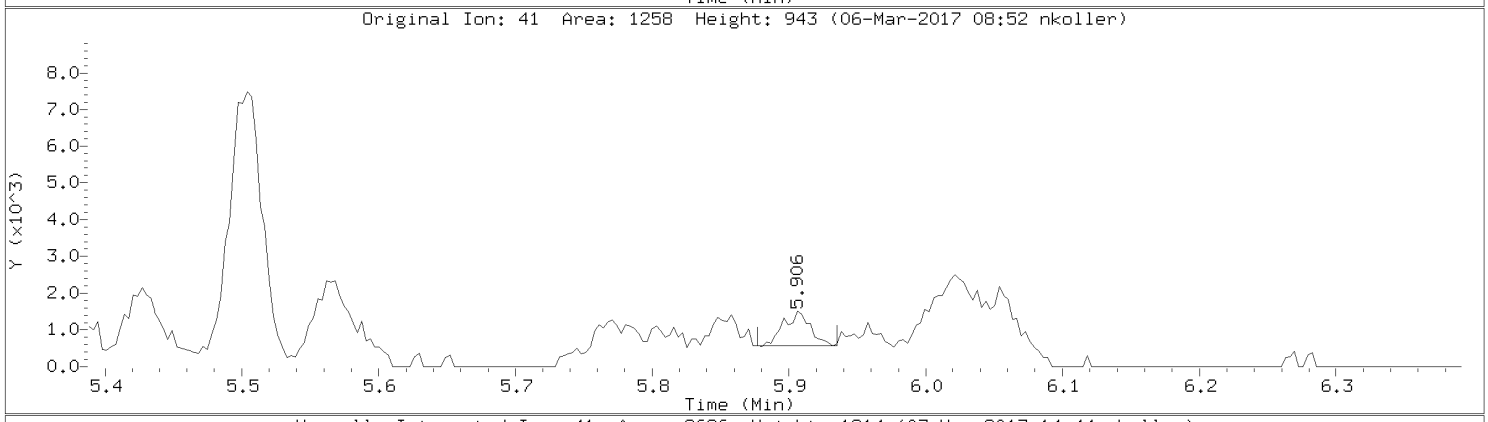


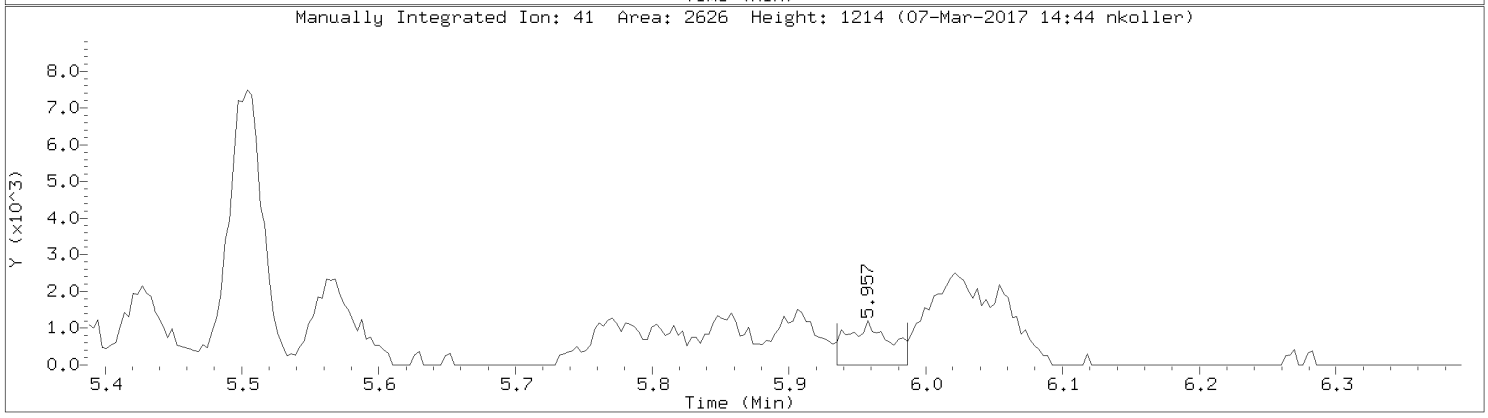
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06423.D
Injection Date: 05-MAR-2017 20:31
Instrument: 10airB.i
Lab Sample ID: 10380193004

Compound: Heptane
CAS Number: 142-82-5



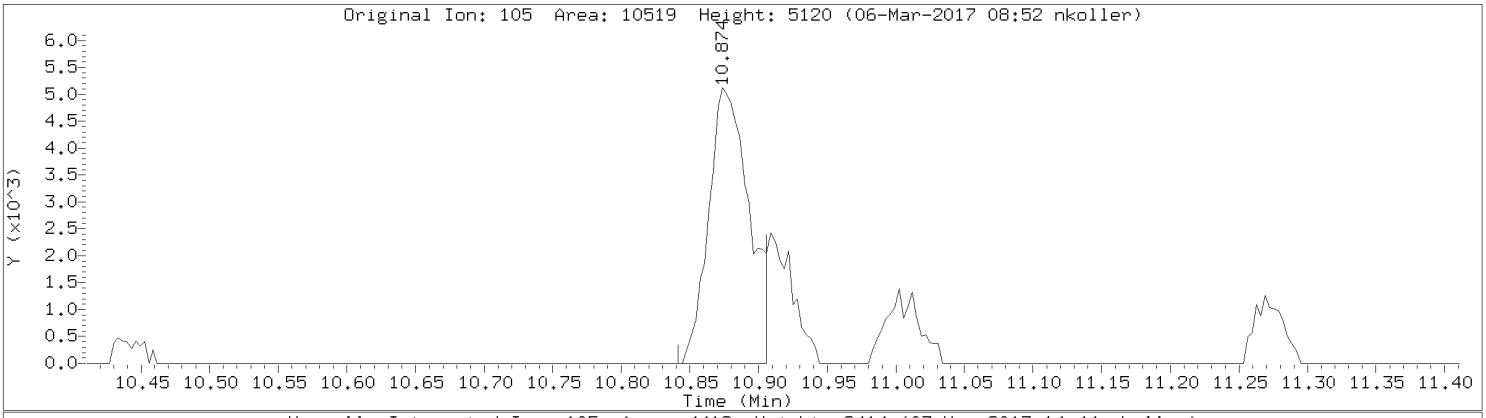


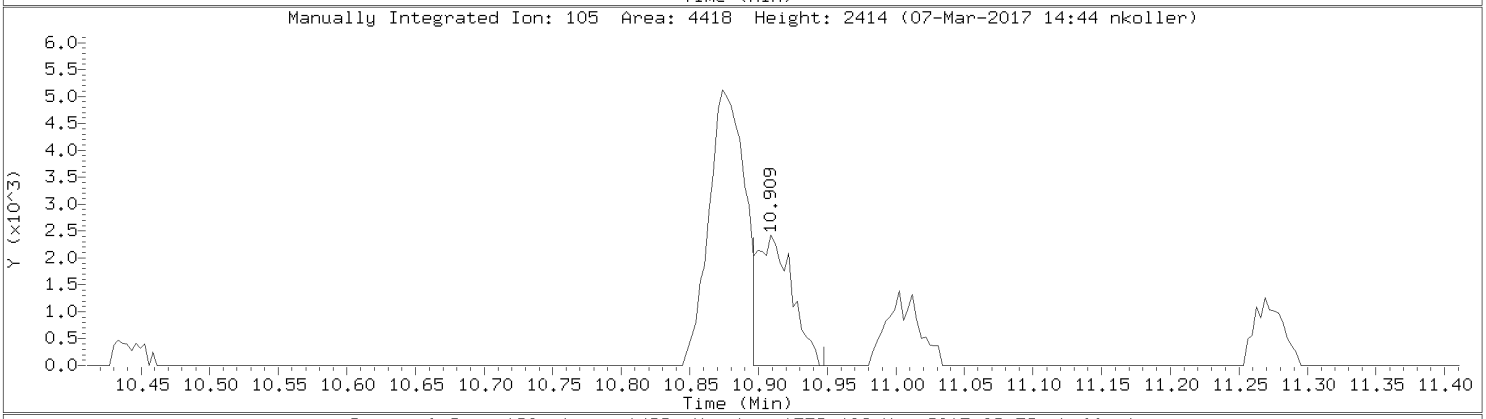


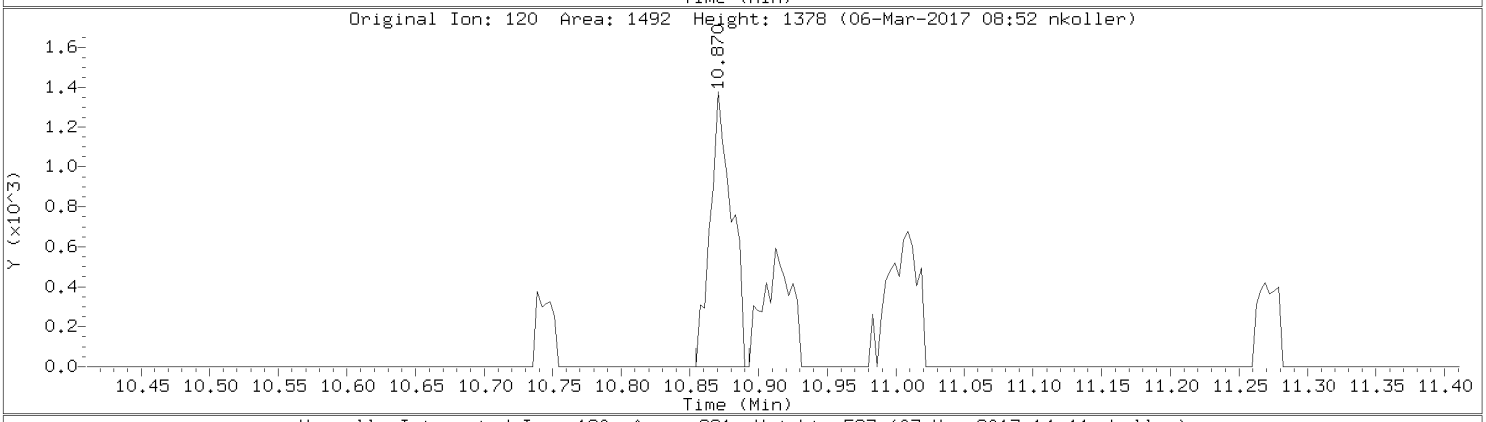


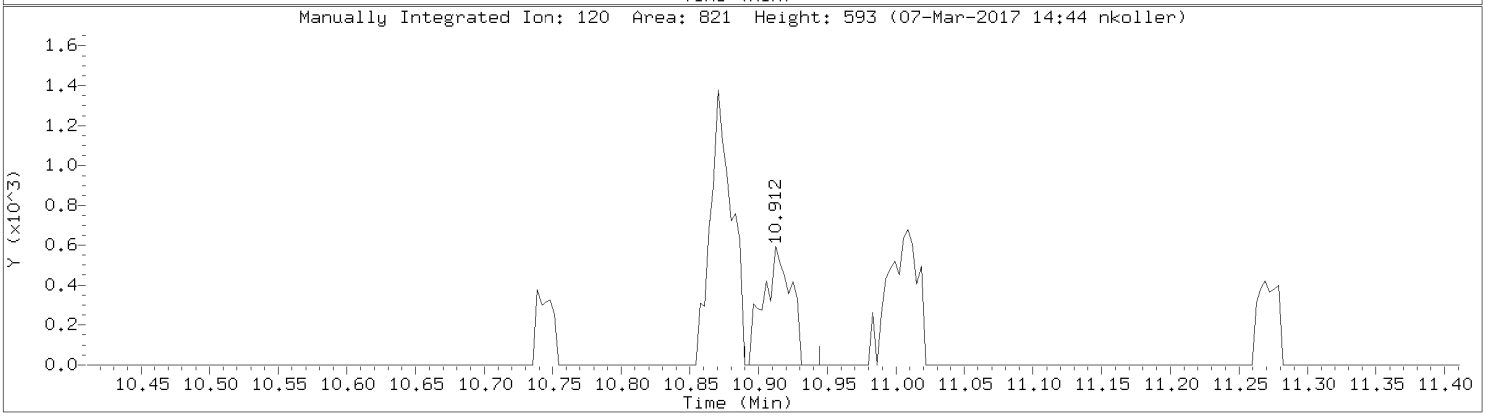
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06423.D
Injection Date: 05-MAR-2017 20:31
Instrument: 10airB.i
Lab Sample ID: 10380193004

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

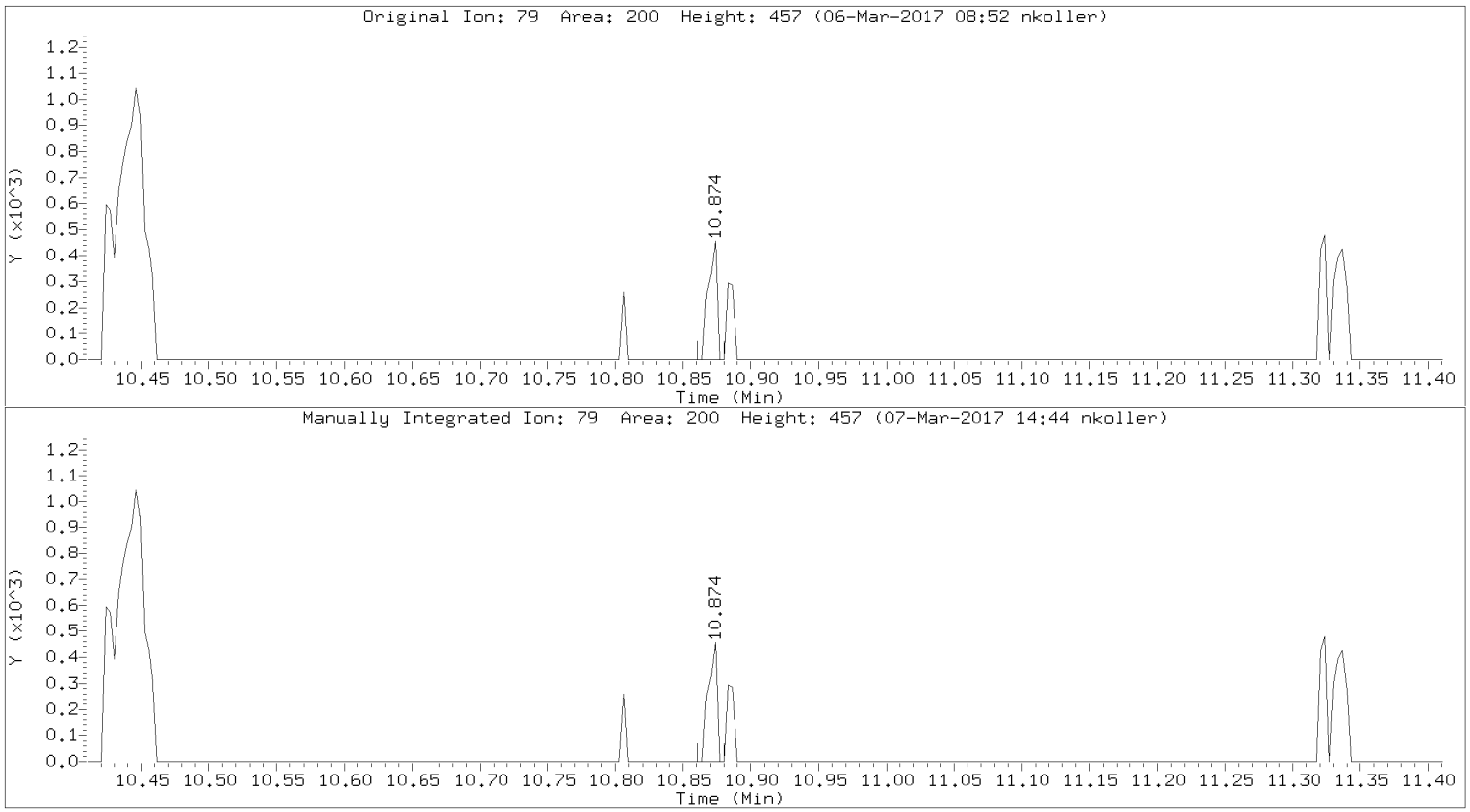






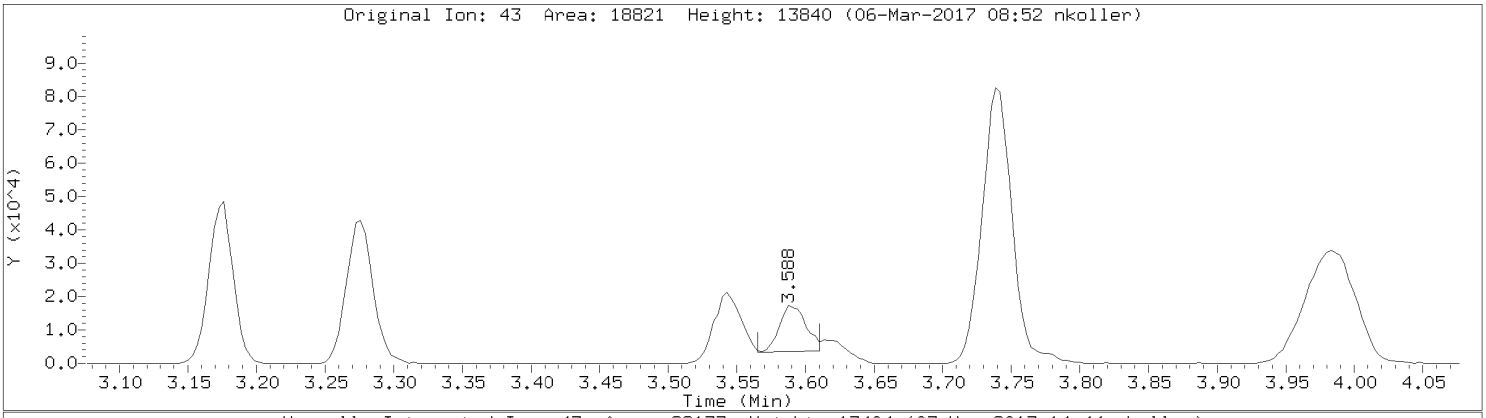


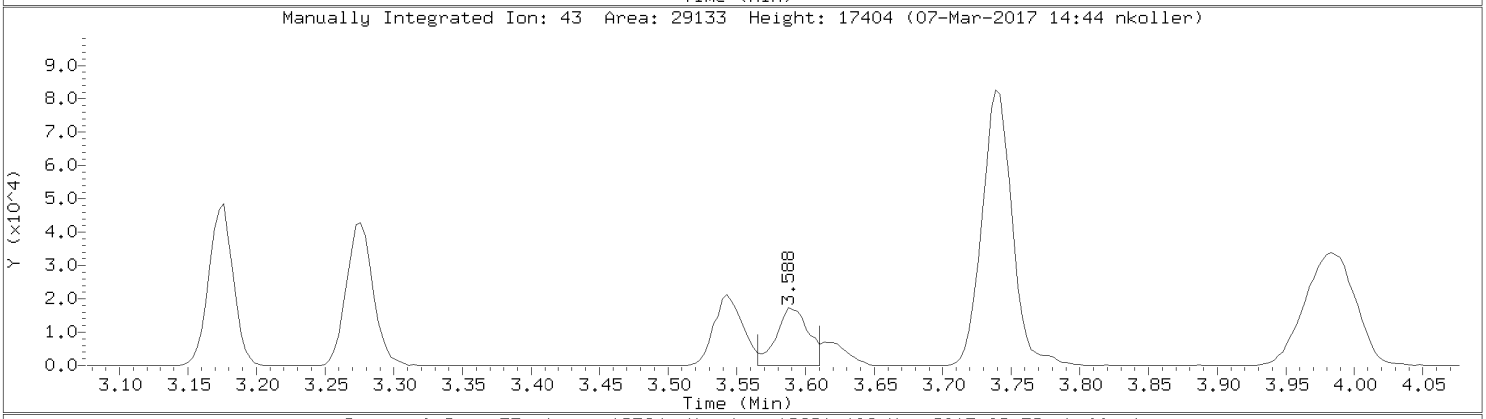
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06423.D
Injection Date: 05-MAR-2017 20:31
Instrument: 10airB.i
Lab Sample ID: 10380193004

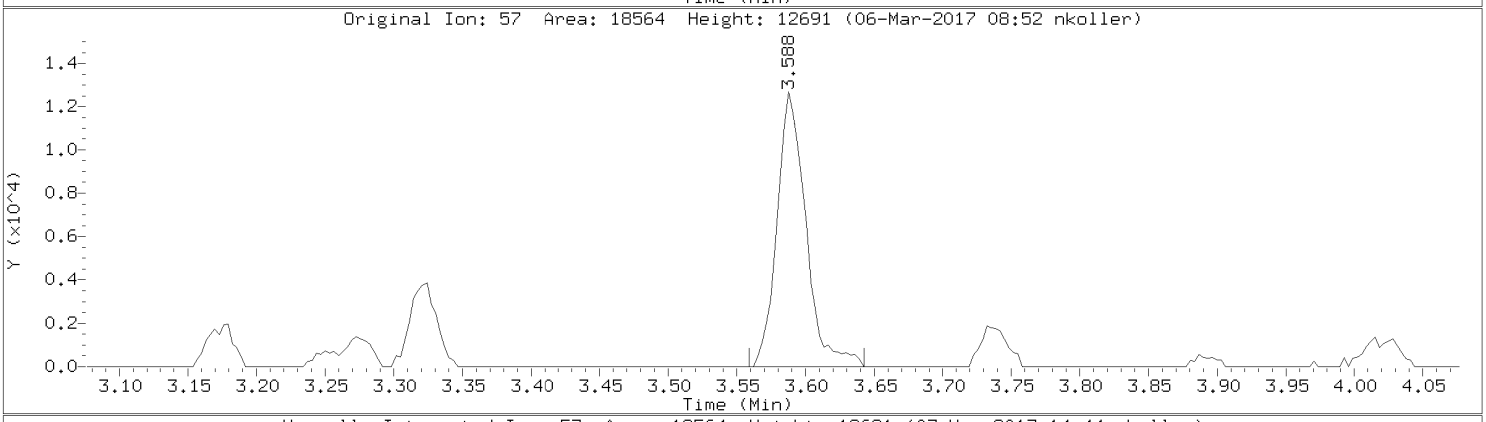


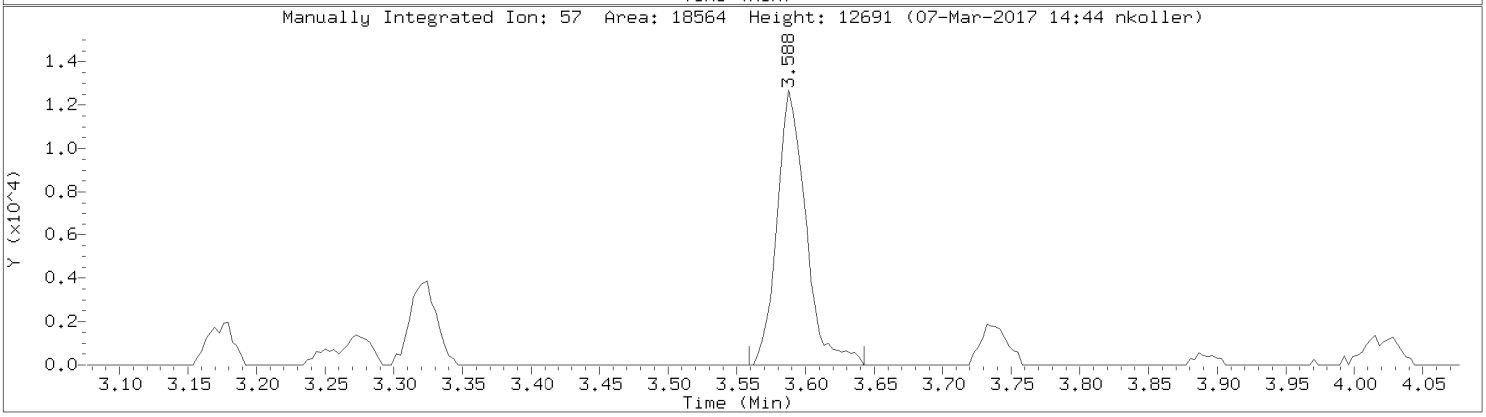
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06423.D
Injection Date: 05-MAR-2017 20:31
Instrument: 10airB.i
Lab Sample ID: 10380193004

Compound: Isopentane
CAS Number: 78-78-4

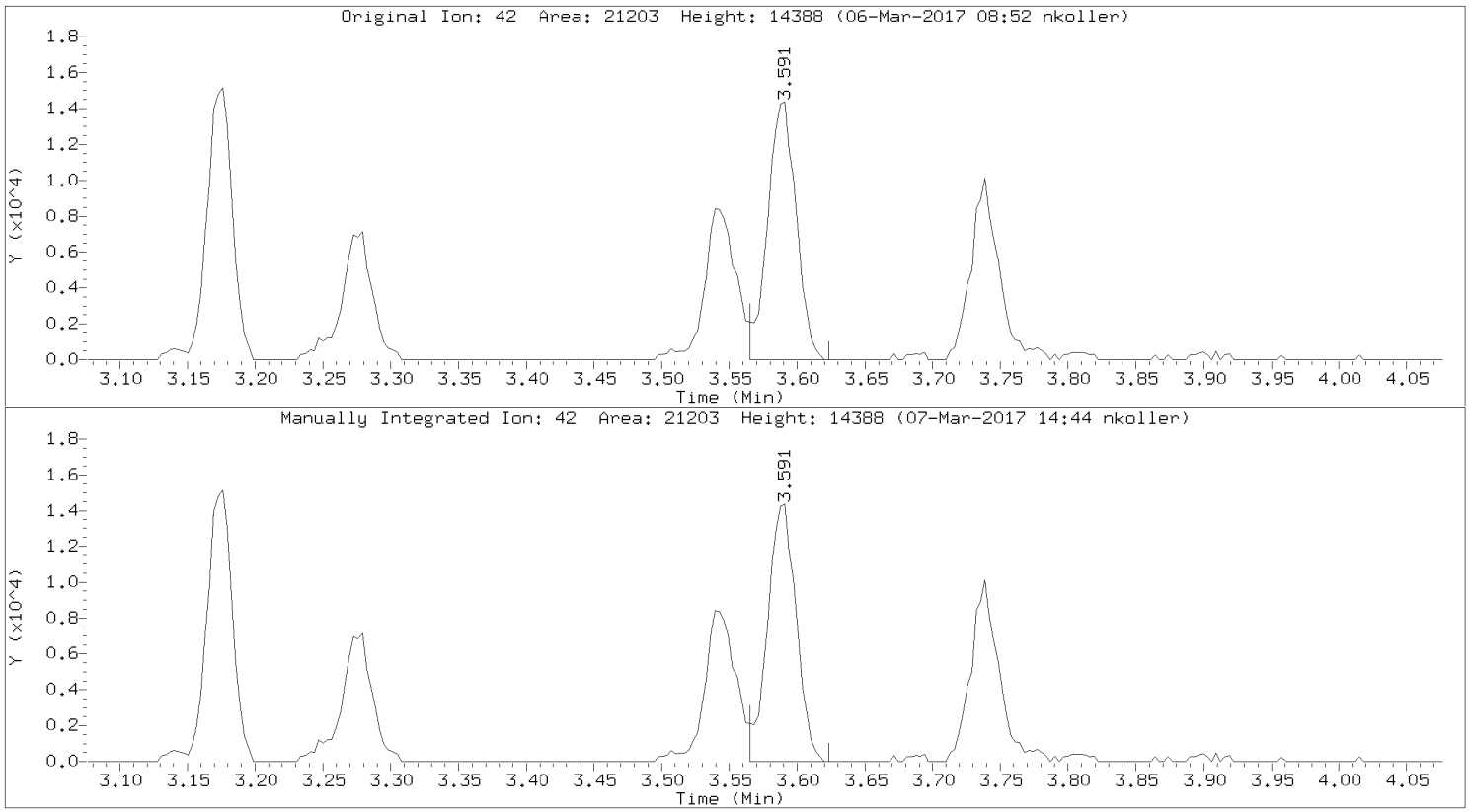








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06423.D
Injection Date: 05-MAR-2017 20:31
Instrument: 10airB.i
Lab Sample ID: 10380193004



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06509.D
Report Date: 07-Mar-2017 14:05

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06509.D
Lab Smp Id: 10380193004
Inj Date : 06-MAR-2017 12:42
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 13:55 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 9
Dil Factor: 643.20000
Integrator: HP RTE Compound Sublist: dil.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	643.200	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	22 Freon 113	101	3.925	3.954	(0.701)	147425	5.28659	3400
	28 trans-1,2-dichloroethene	96	Compound Not Detected.					
	37 cis-1,2-Dichloroethene	96	4.690	4.725	(0.838)	5151	0.38258	246(Q)
	39 Chloroform	83	4.806	4.841	(0.858)	4040	0.14477	93.1
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1346987	10.0000	
	51 Trichloroethene	130	5.976	5.989	(1.067)	645526	28.5228	18300
	66 Tetrachloroethene	166	7.982	7.989	(0.924)	57528	1.90600	1230
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	869211	10.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06509.D
Report Date: 07-Mar-2017 14:05

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06509.D
Lab Smp Id: 10380193004
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

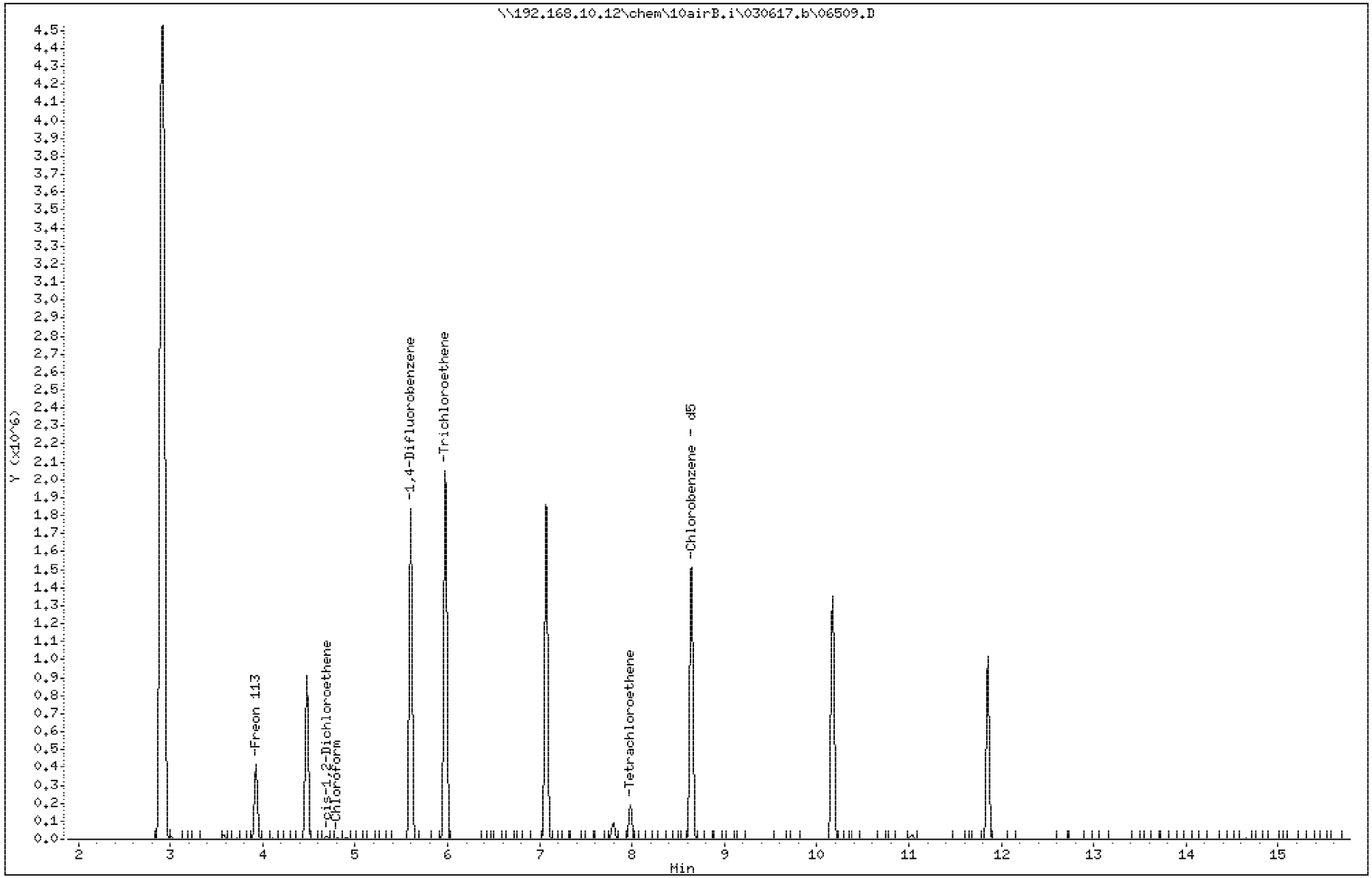
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1346987	-4.75
67 Chlorobenzene - d	951026	570616	1331436	869211	-8.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06509.D
Date : 06-MAR-2017 12:42
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06509.D

Date : 06-MAR-2017 12:42

Client ID:

Instrument: 10airB.i

Sample Info:

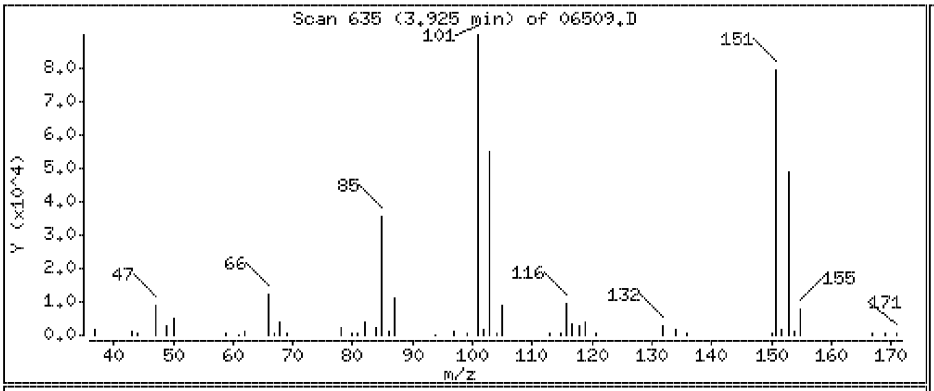
Operator: NCK

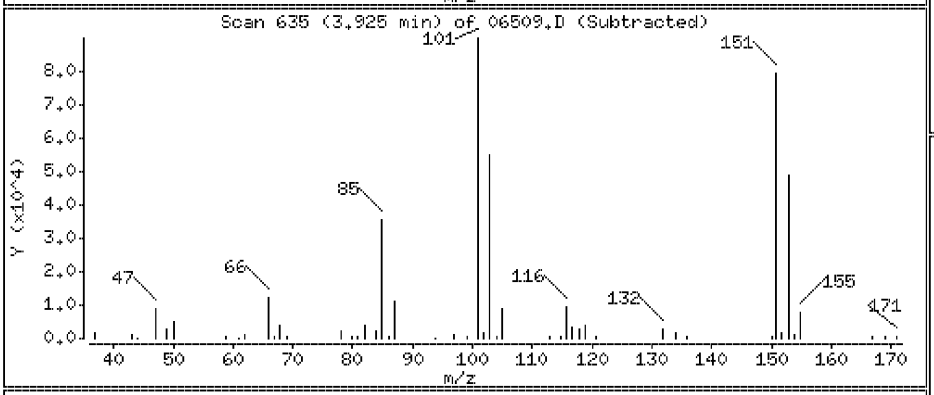
Column phase: J&W DB-5

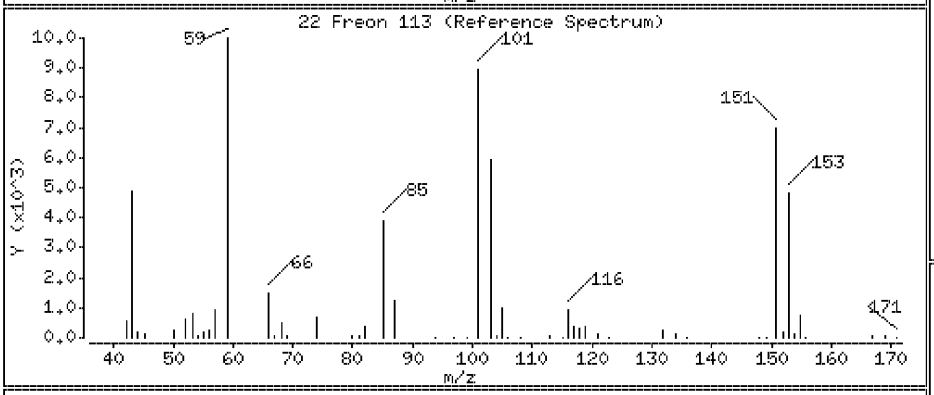
Column diameter: 0.32

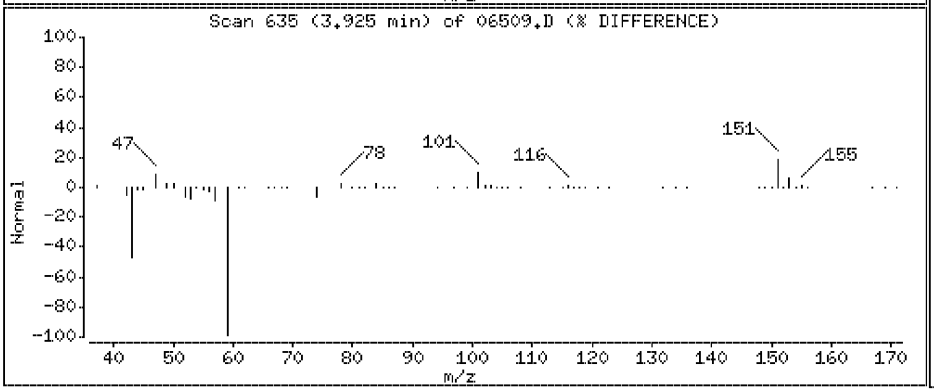
22 Freon 113

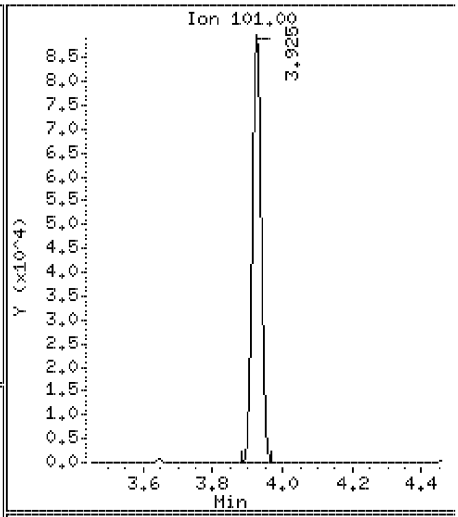
Concentration: 3400 ppbv

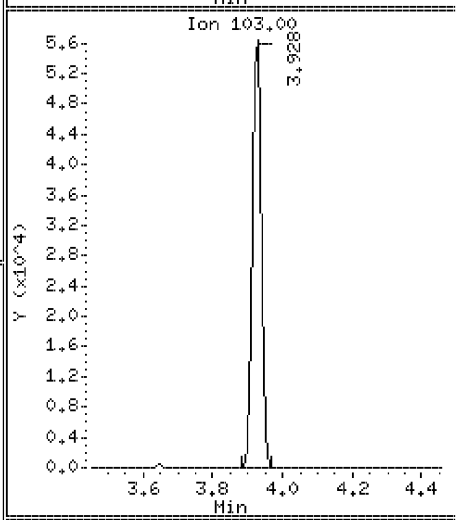


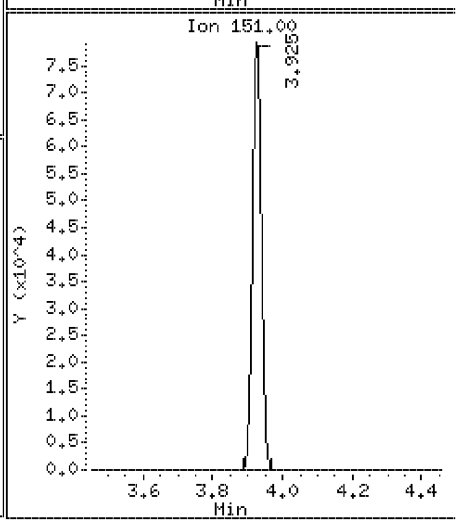












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06509.D

Date : 06-MAR-2017 12:42

Client ID:

Instrument: 10airB.i

Sample Info:

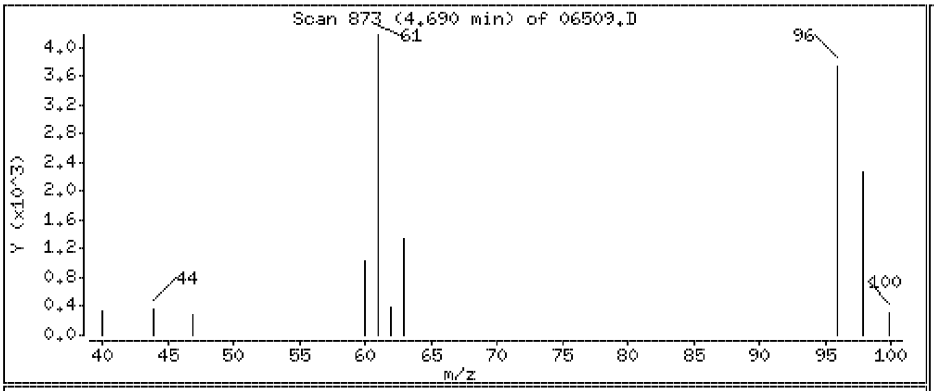
Operator: NCK

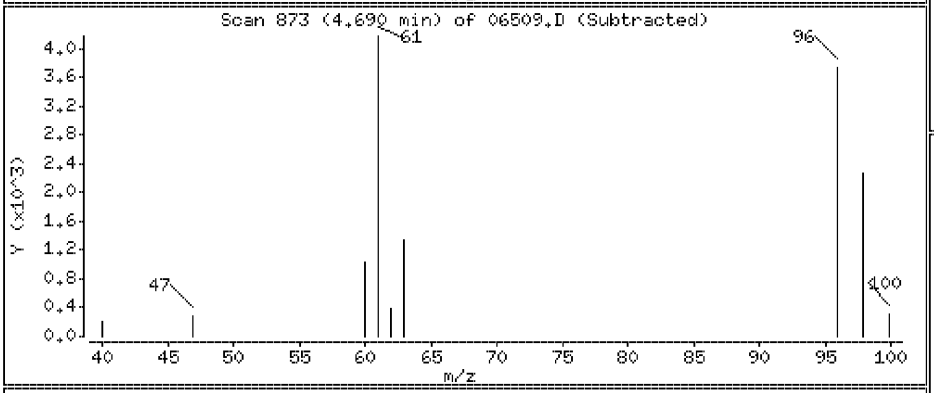
Column phase: J&W DB-5

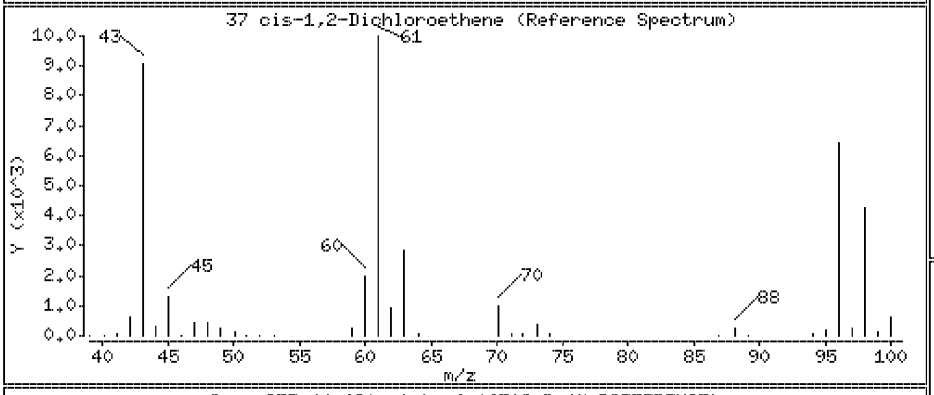
Column diameter: 0.32

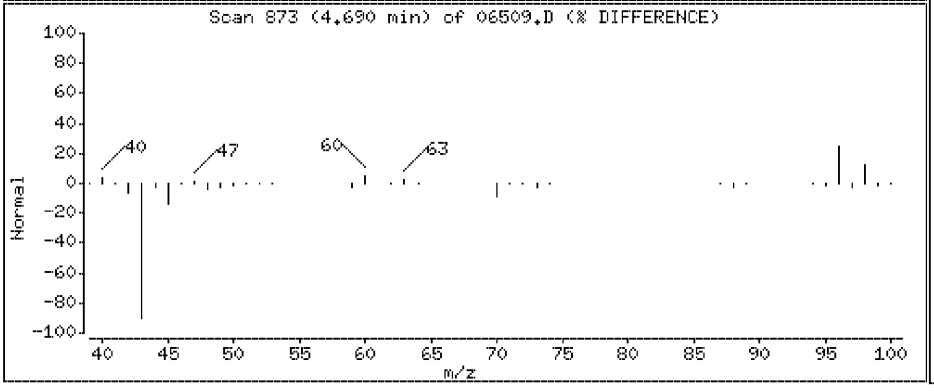
37 cis-1,2-Dichloroethene

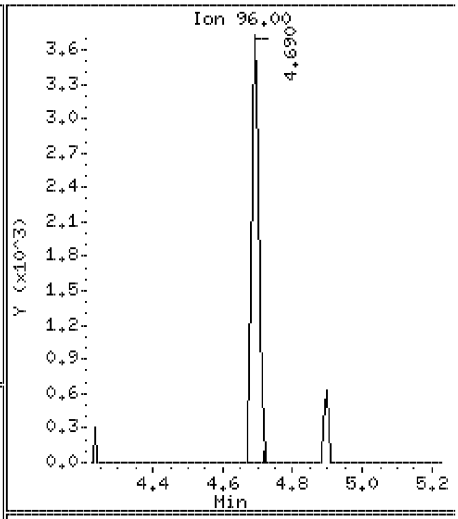
Concentration: 246 ppbv

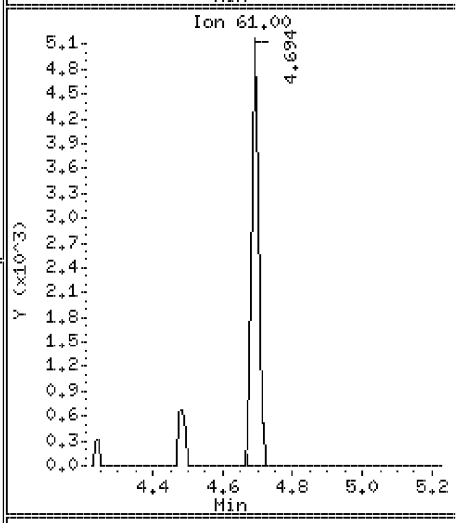


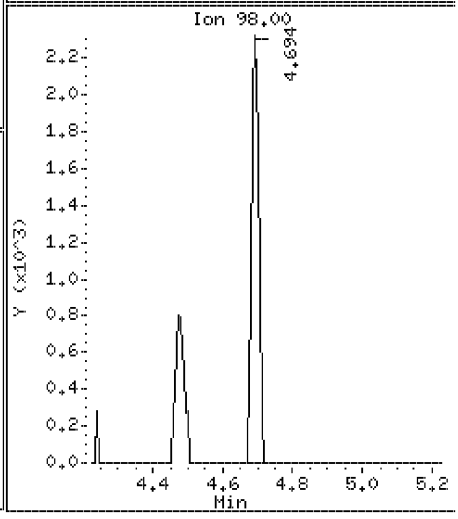












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06509.D

Date : 06-MAR-2017 12:42

Client ID:

Instrument: 10airB.i

Sample Info:

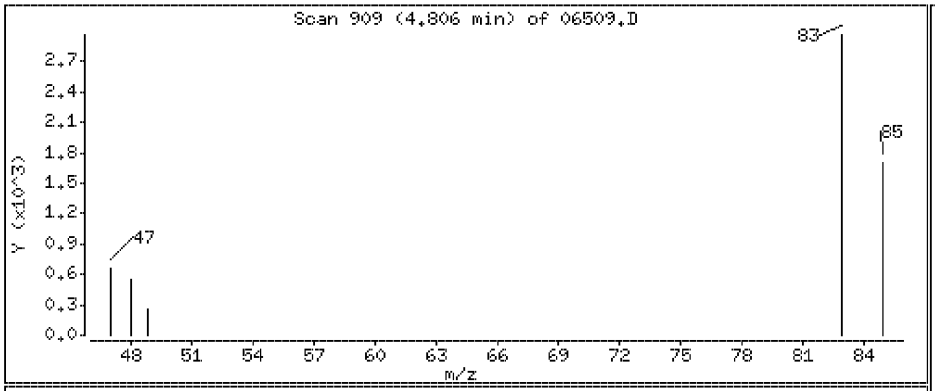
Operator: NCK

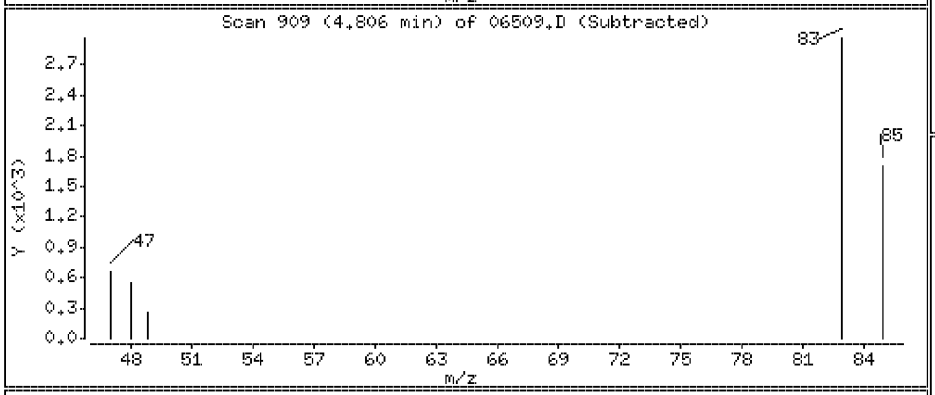
Column phase: J&W DB-5

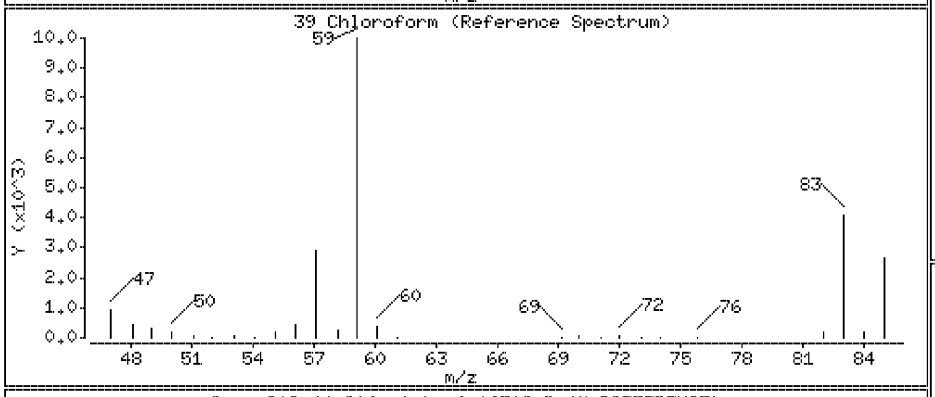
Column diameter: 0.32

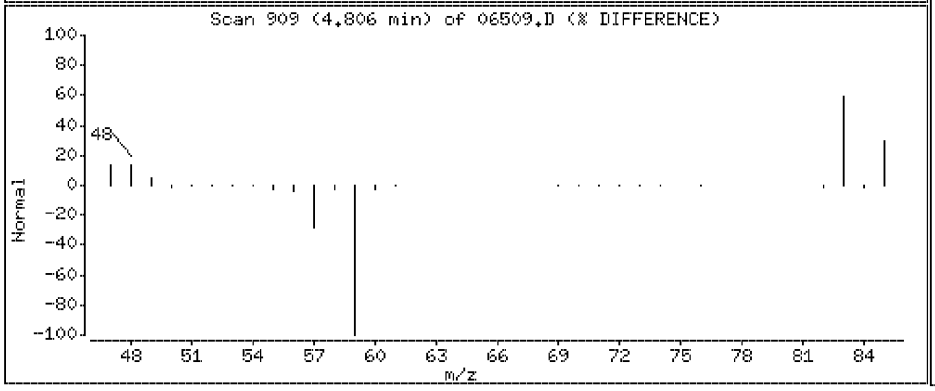
39 Chloroform

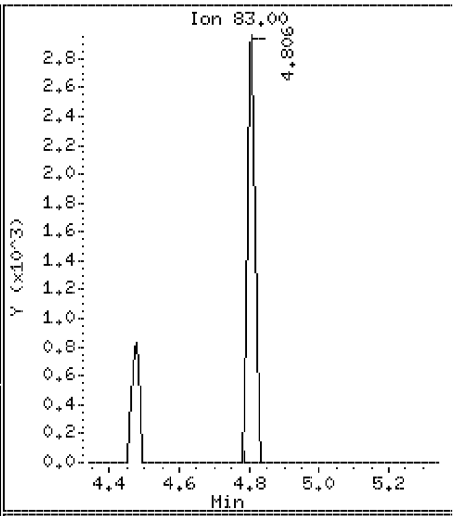
Concentration: 93.1 ppbv

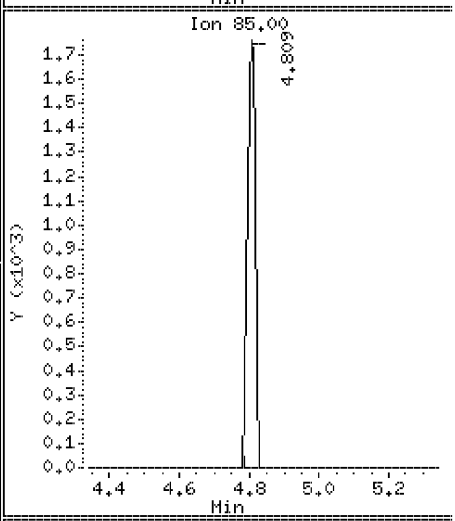


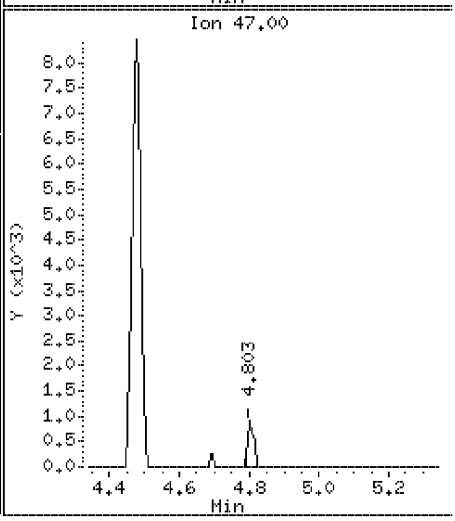












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06509.D

Date : 06-MAR-2017 12:42

Client ID:

Instrument: 10airB.i

Sample Info:

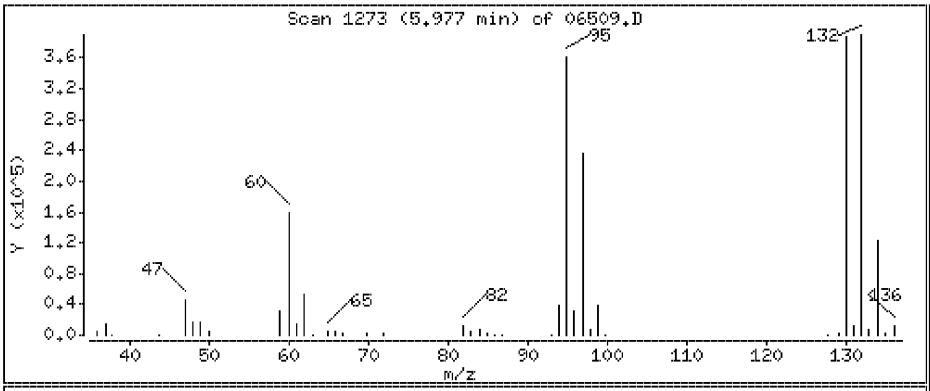
Operator: NCK

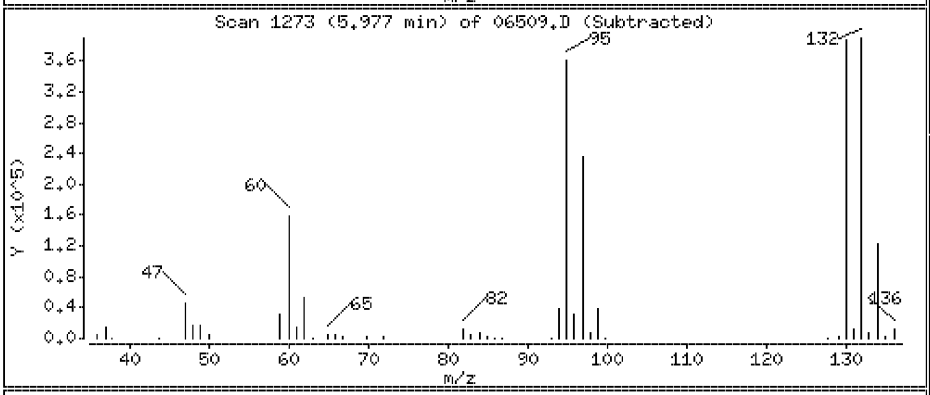
Column phase: J&W DB-5

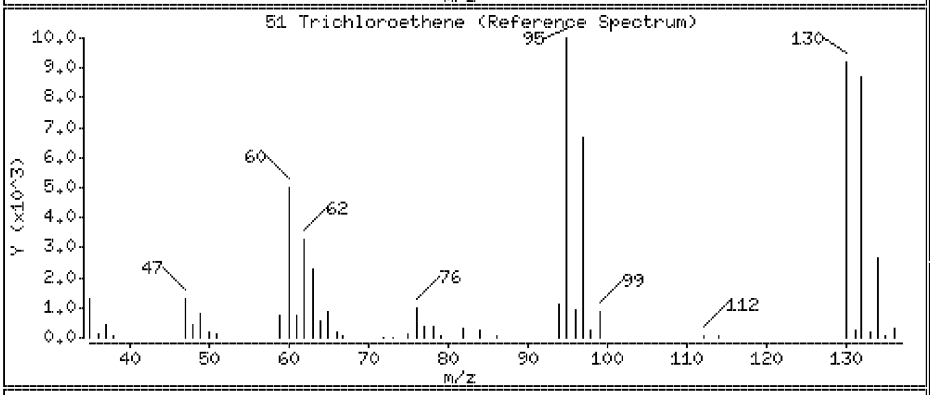
Column diameter: 0.32

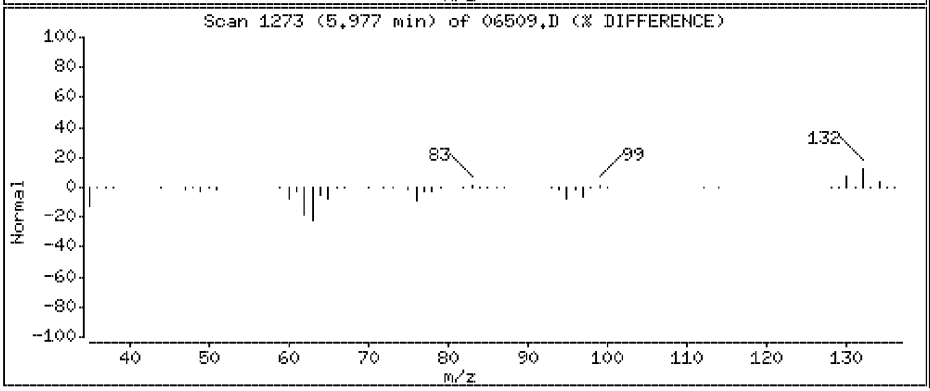
51 Trichloroethene

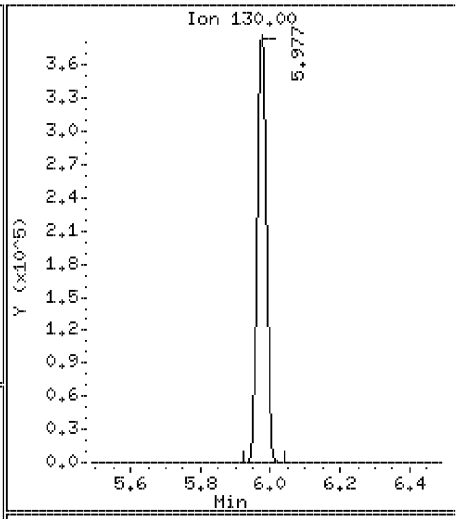
Concentration: 18300 ppbv

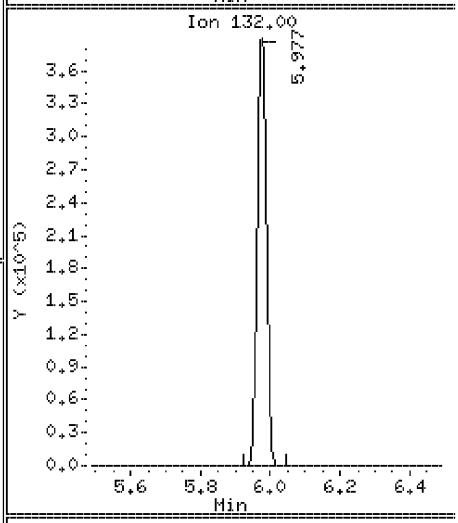


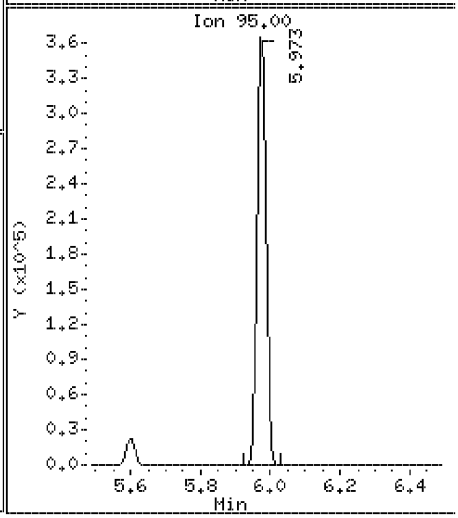












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06509.D

Date : 06-MAR-2017 12:42

Client ID:

Instrument: 10airB.i

Sample Info:

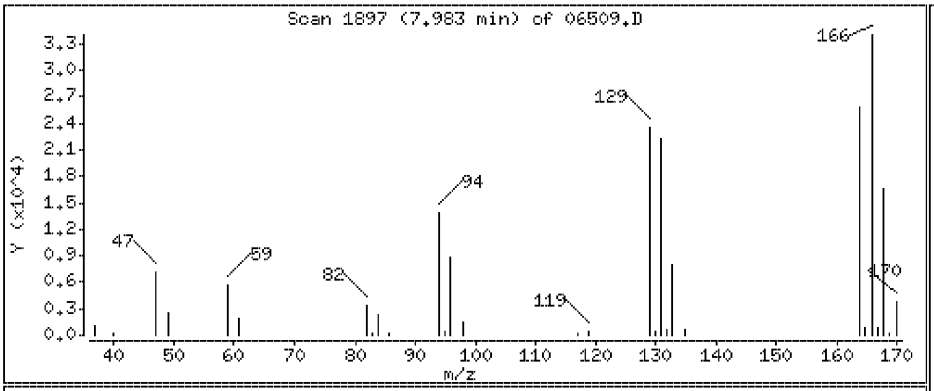
Operator: NCK

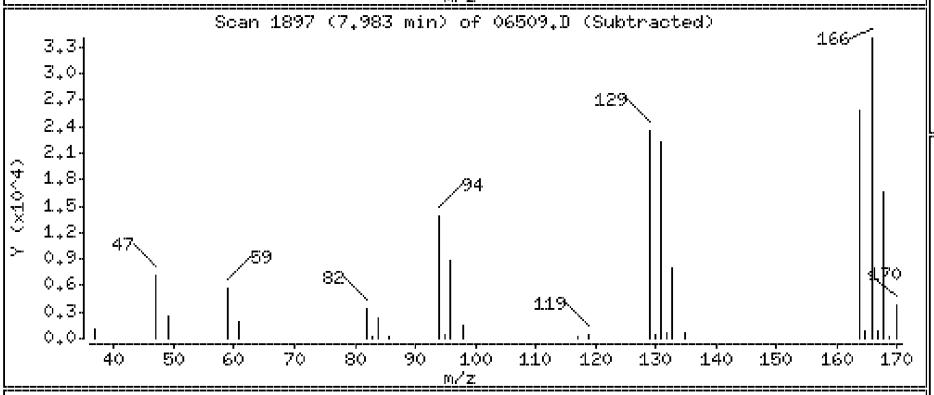
Column phase: J&W DB-5

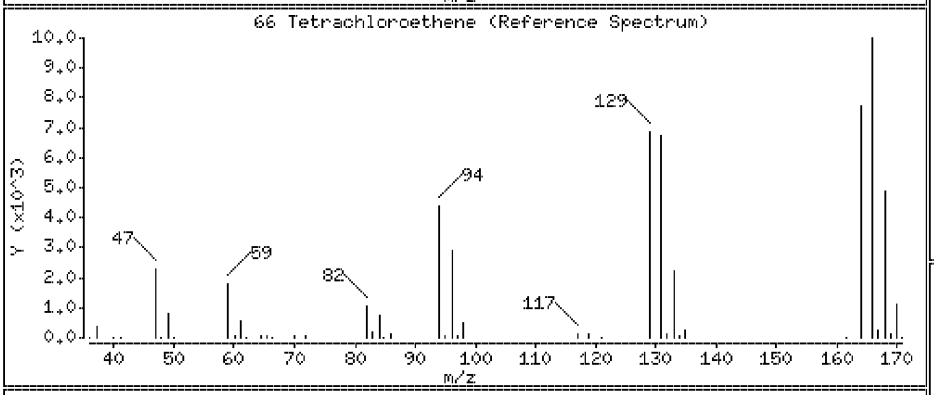
Column diameter: 0.32

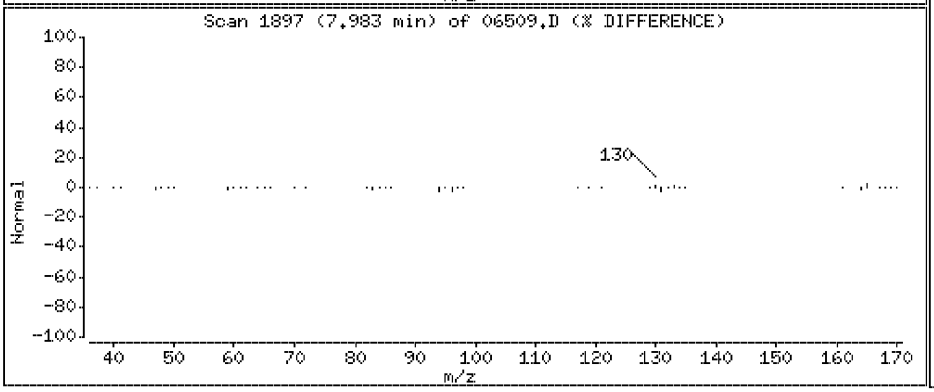
66 Tetrachloroethene

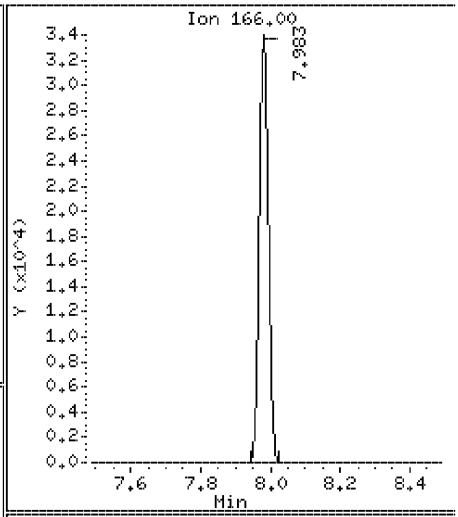
Concentration: 1230 ppbv

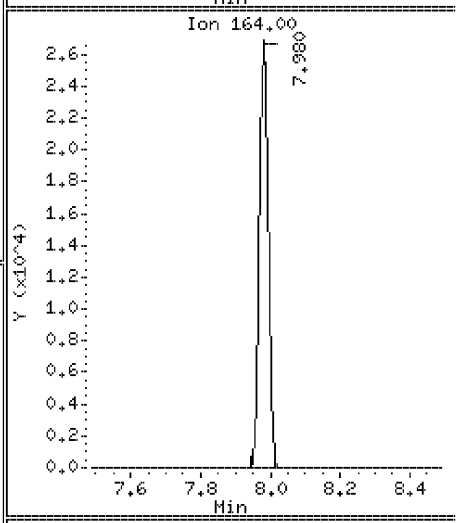


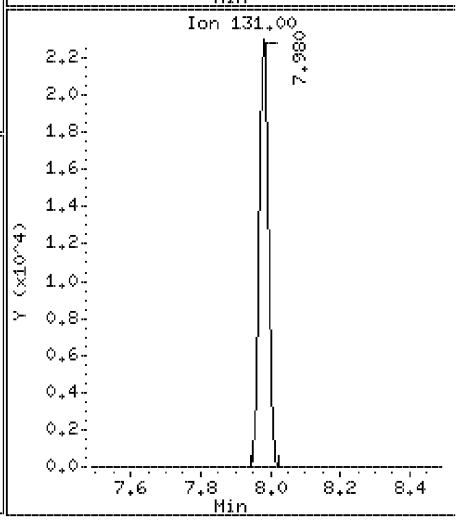












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06509.D
Injection Date: 06-MAR-2017 12:42
Instrument: 10airB.i
Lab Sample ID: 10380193004
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_30_20170223 **Lab ID: 10380193004** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
m&p-Xylene	**59.1**	ug/m3	3.6	1.6	2.01		03/05/17 20:31	179601-23-1	
o-Xylene	**13.7**	ug/m3	1.8	0.71	2.01		03/05/17 20:31	95-47-6	

Sample: VP-NYSDEC-5_40_20170223 **Lab ID: 10380193005** Collected: 02/23/17 13:03 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.0**	ug/m3	4.4	1.5	1.83		03/05/17 21:02	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/05/17 21:02	107-05-1	
Benzene	**1.7**	ug/m3	0.59	0.22	1.83		03/05/17 21:02	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/05/17 21:02	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/05/17 21:02	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/05/17 21:02	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/05/17 21:02	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/05/17 21:02	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/05/17 21:02	75-15-0	
Carbon tetrachloride	**16.6**	ug/m3	1.2	0.35	1.83		03/05/17 21:02	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/05/17 21:02	108-90-7	
Chlorodifluoromethane	**170**	ug/m3	1.3	0.51	1.83		03/05/17 21:02	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/05/17 21:02	75-00-3	
Chloroform	**134**	ug/m3	0.91	0.35	1.83		03/05/17 21:02	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/05/17 21:02	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/05/17 21:02	76-15-3	CL
Cyclohexane	**4.5**	ug/m3	1.3	0.58	1.83		03/05/17 21:02	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/05/17 21:02	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/05/17 21:02	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/05/17 21:02	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/05/17 21:02	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/05/17 21:02	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/05/17 21:02	106-46-7	
Dichlorodifluoromethane	**<0.88**	ug/m3	1.8	0.88	1.83		03/05/17 21:02	75-71-8	
1,1-Dichloroethane	**7.5**	ug/m3	1.5	0.29	1.83		03/05/17 21:02	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/05/17 21:02	107-06-2	
1,1-Dichloroethene	**7.6**	ug/m3	1.5	0.44	1.83		03/05/17 21:02	75-35-4	
cis-1,2-Dichloroethene	**1670**	ug/m3	1.5	0.45	1.83		03/05/17 21:02	156-59-2	
cis-1,2-Dichloroethene	**14600**	ug/m3	7590	2300	9369.6		03/06/17 13:10	156-59-2	A3
trans-1,2-Dichloroethene	**142**	ug/m3	1.5	0.70	1.83		03/05/17 21:02	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/05/17 21:02	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/05/17 21:02	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/05/17 21:02	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/05/17 21:02	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/05/17 21:02	306-83-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D
Report Date: 06-Mar-2017 12:09

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06424.D
Lab Smp Id: 10380193005
Inj Date : 05-MAR-2017 21:02
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 24
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.025	2.989	(0.536)	94623	25.8098	47.2(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.545	3.542	(0.628)	23521	4.89388	8.96	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.590	3.578	(0.636)	30806	2.23281	4.09	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.664	3.655	(0.650)	115869	3.23110	5.91	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.754	3.713	(0.665)	51774	2.49466	4.57	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.912	3.896	(0.693)	21485	1.03016	1.89	
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.983	3.934	(0.706)	6956733	256.895	470(AH)	
23	Methyl Acetate	43	3.983	3.951	(0.706)	82870	2.62264	4.80(Q)	

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D
Report Date: 06-Mar-2017 12:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.989	3.951	(0.707)	66412	2.44079	4.47(H)	
	25 Methylene chloride	49	3.986	3.992	(0.707)	281131	19.1921	35.1(Q)	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.285	4.269	(0.760)	225695	19.2871	35.3	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	4.426	4.407	(0.785)	22714	0.99650	1.82	
$	32 Hexane-d14(S)	66	4.513	4.481	(0.800)	358468	8.61383	8.61	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.610	4.578	(0.817)	5168	0.24777	0.453(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.732	4.722	(0.839)	2952142	225.798	413(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.844	4.838	(0.859)	398873	14.7194	26.9	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.240	5.227	(0.929)	3627	0.11377	0.208	
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.497	5.465	(0.974)	12145	0.28790	0.527(M)	
	44 Carbon tetrachloride	117	5.504	5.484	(0.975)	45277	1.42111	2.60	
	45 Cyclohexane	56	5.507	5.484	(0.976)	14891	0.70515	1.29	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.642	5.610	(1.000)	1308029	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.086	5.986	(1.079)	21153579	962.518	1760(AM)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	6.487	6.430	(1.150)	4618	0.39472	0.722	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.121	7.076	(1.262)	1057484	9.03275	9.03	
	60 1,1,2-Trichloroethane	97	7.182	7.143	(1.273)	45635	2.60127	4.76	
	61 Toluene	91	7.195	7.153	(1.275)	100539	1.90309	3.48	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	7.616	7.584	(0.878)	4856	0.17214	0.315(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.066	7.986	(0.930)	8851416	309.071	566(A)	
*	67 Chlorobenzene - d5	117	8.671	8.645	(1.000)	824752	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	8.957	8.934	(1.033)	24525	0.40430	0.740	
	70 m&p-Xylene	91	9.098	9.082	(1.049)	72018	1.51261	2.77	
	71 n-Nonane	43	9.487	9.468	(1.094)	3820	0.15556	0.285	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.593	9.581	(1.106)	17009	0.35115	0.643	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D
Report Date: 06-Mar-2017 12:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.921	10.912	(1.260)	2593	0.13559	0.248(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.391	11.378	(2.019)	3884	0.35048	0.641(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.854	(1.367)	453988	9.99252	9.99	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.169	(1.635)	3894	0.45363	0.830(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D
Report Date: 06-Mar-2017 12:09

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06424.D
Lab Smp Id: 10380193005
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1308029	-7.50
67 Chlorobenzene - d	951026	570616	1331436	824752	-13.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.64	0.57
67 Chlorobenzene - d	8.65	8.32	8.98	8.67	0.30

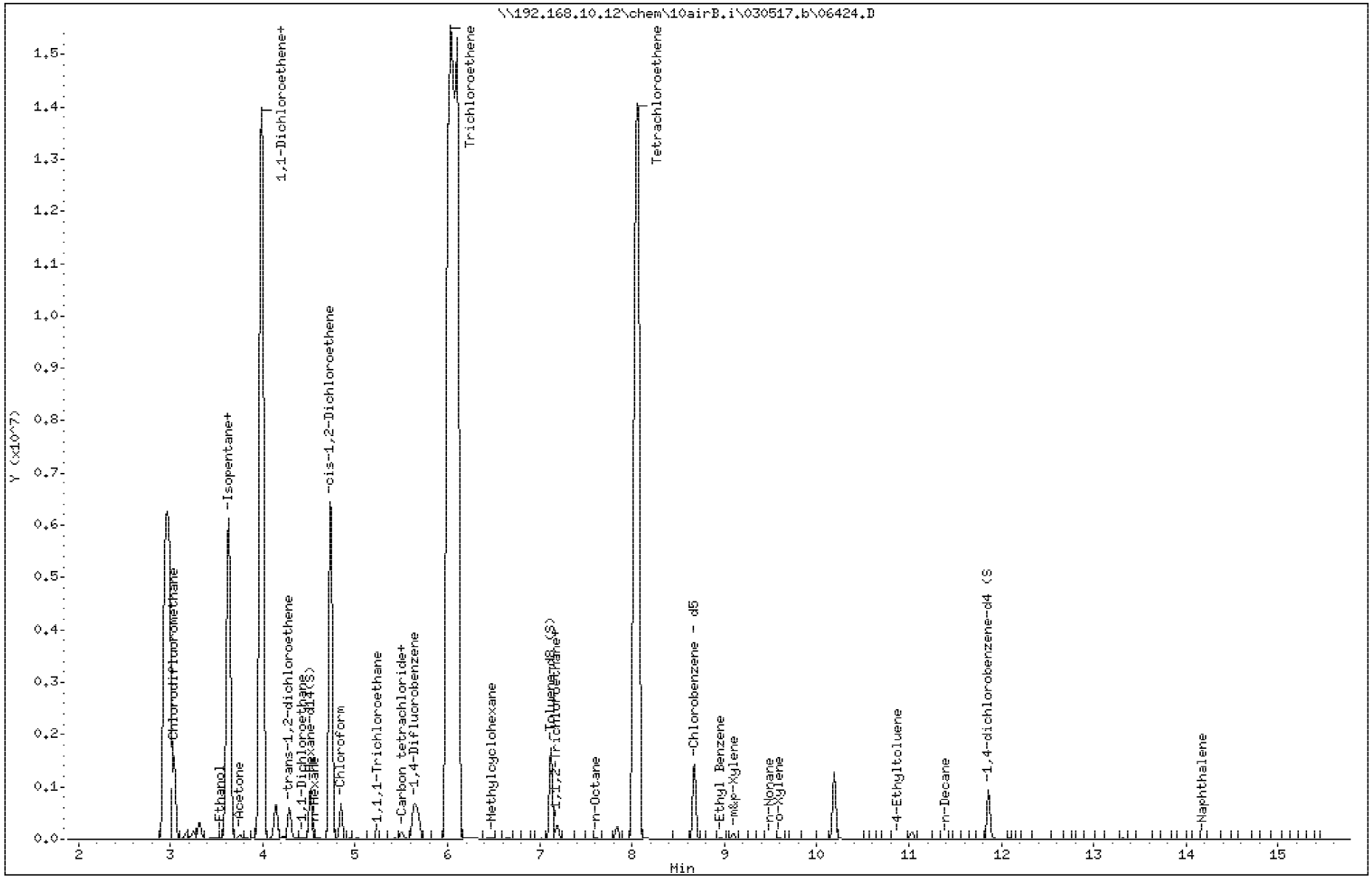
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D
Date : 05-MAR-2017 21:02
Client ID:
Sample Info:

Column phase: J&W DB-5

Instrument: 10airB.i

Operator: NCK
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

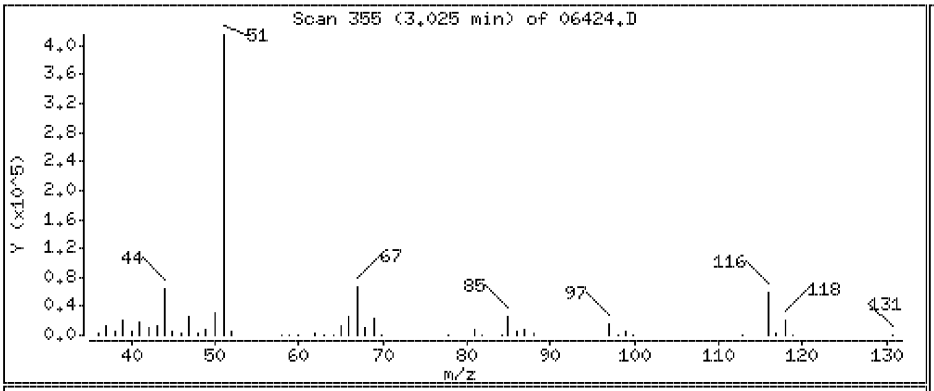
Operator: NCK

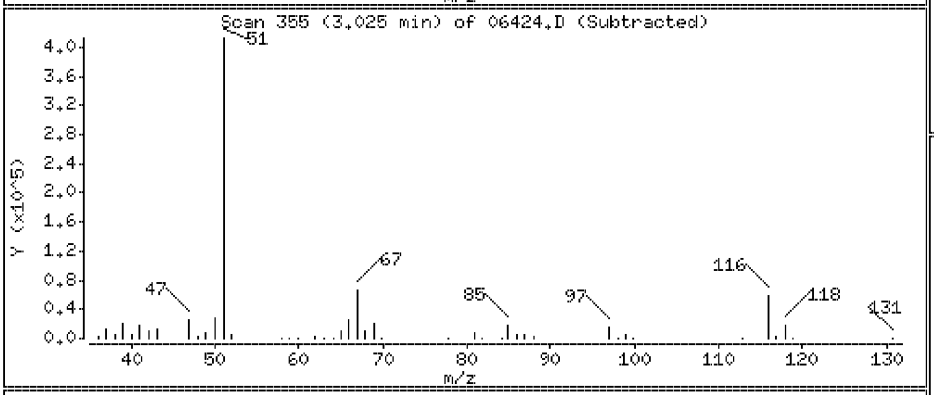
Column phase: J&W DB-5

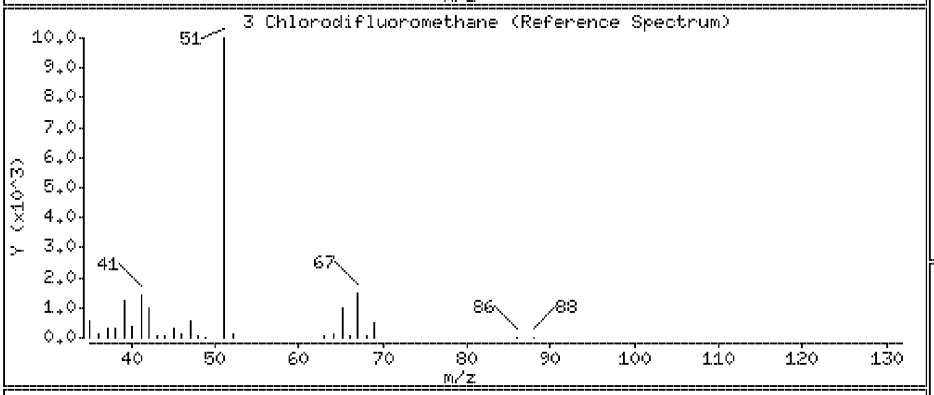
Column diameter: 0.32

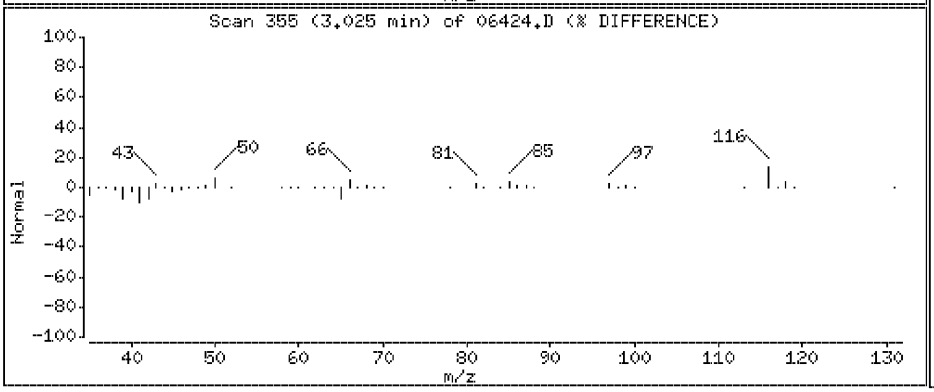
3 Chlorodifluoromethane

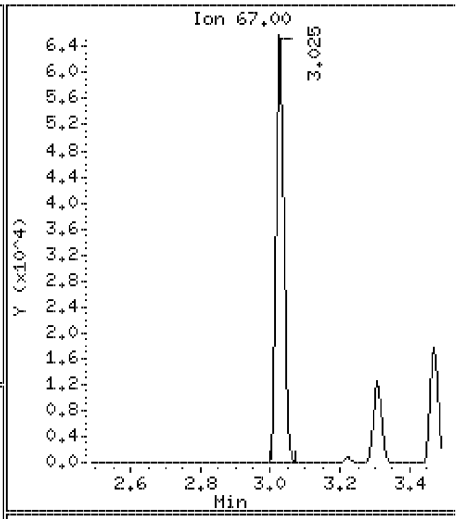
Concentration: 47.2 ppbv

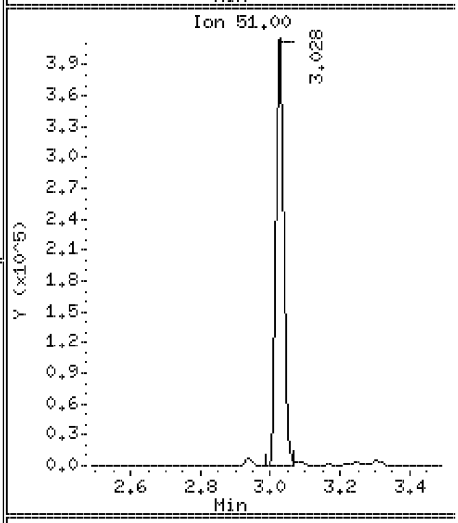


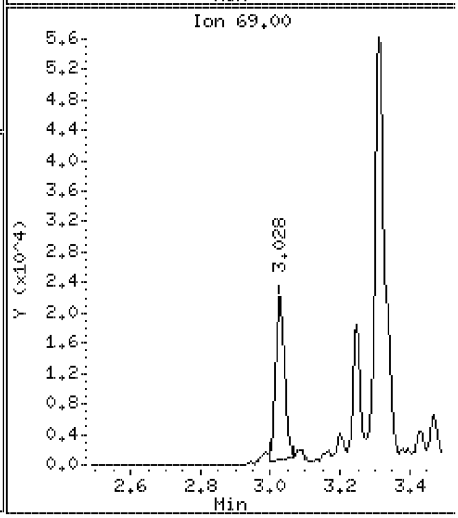












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

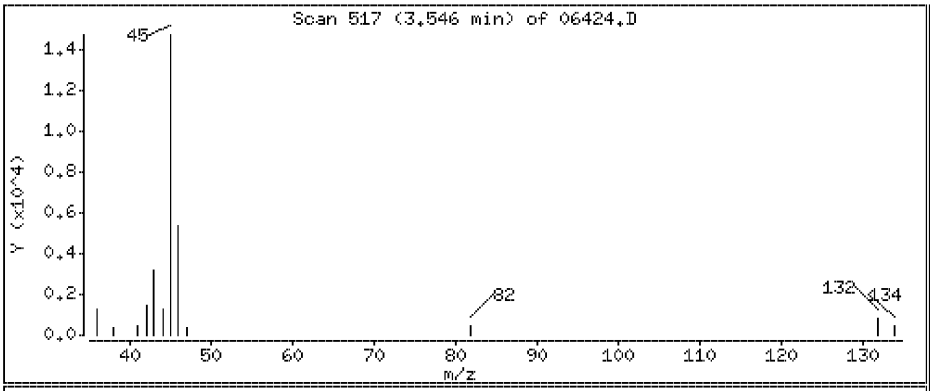
Operator: NCK

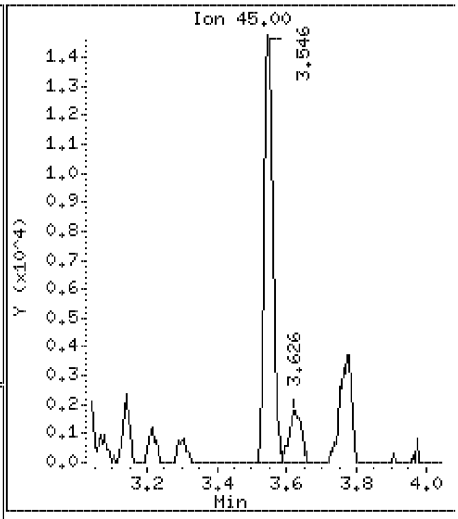
Column phase: J&W DB-5

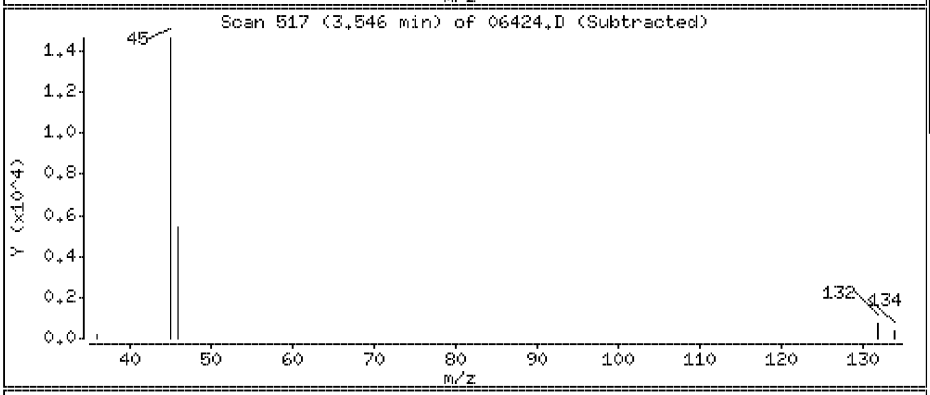
Column diameter: 0.32

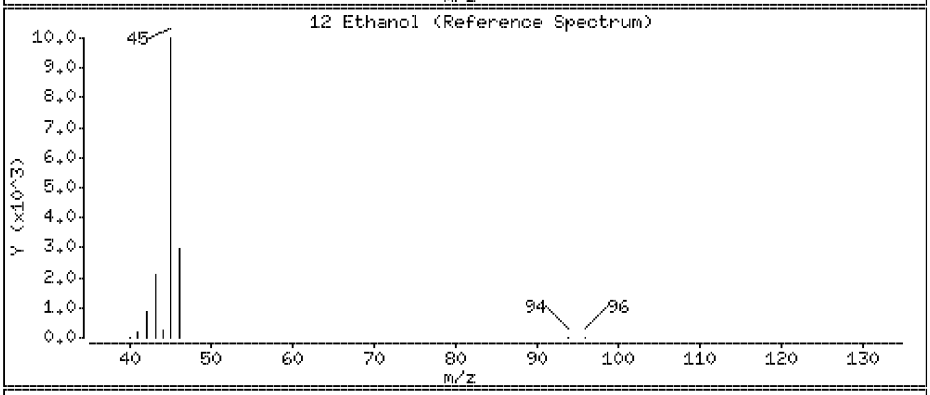
12 Ethanol

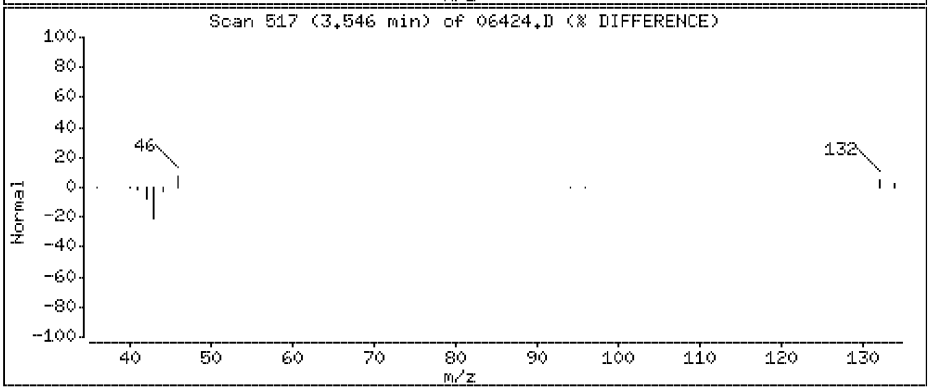
Concentration: 8.96 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

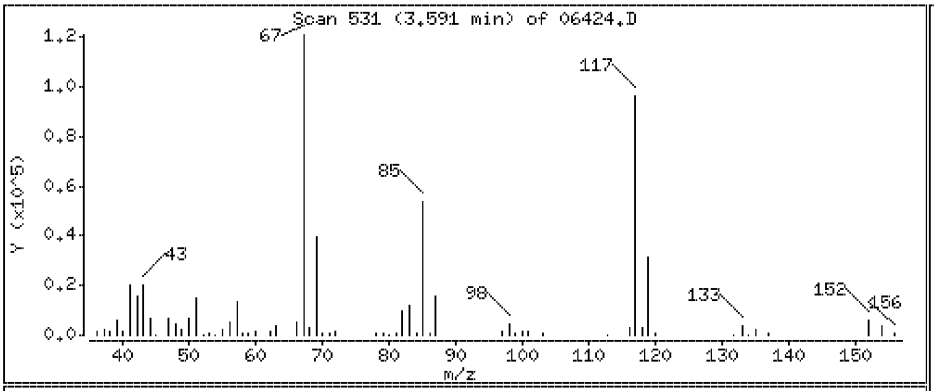
Operator: NCK

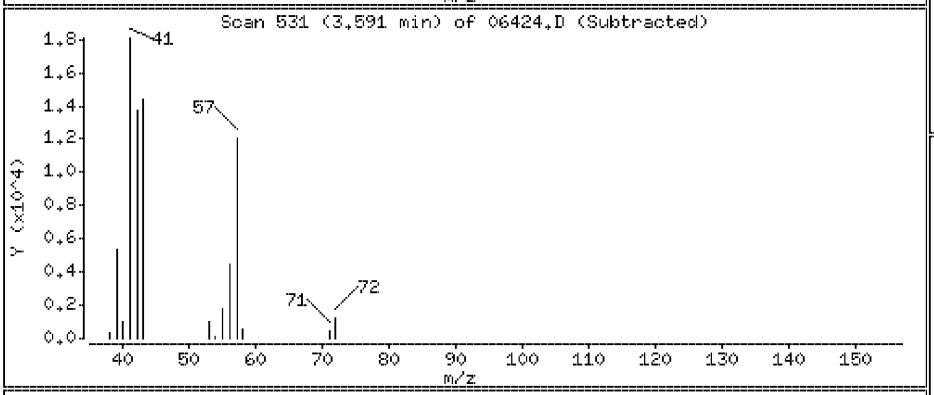
Column phase: J&W DB-5

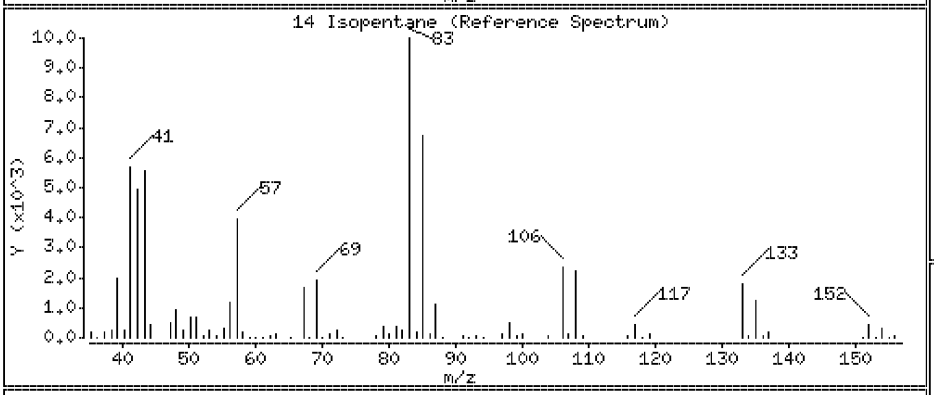
Column diameter: 0.32

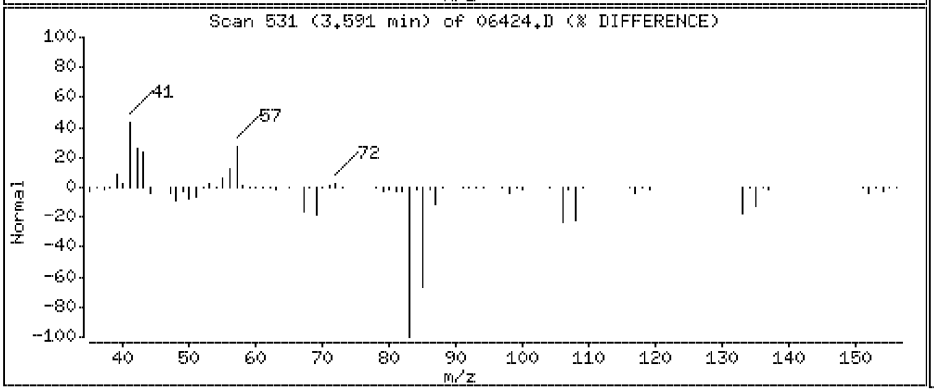
14 Isopentane

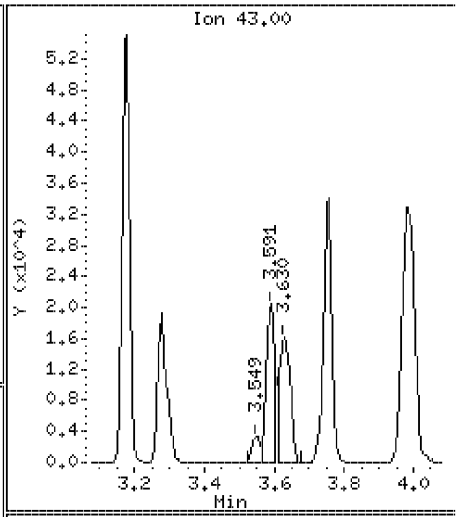
Concentration: 4.09 ppbv

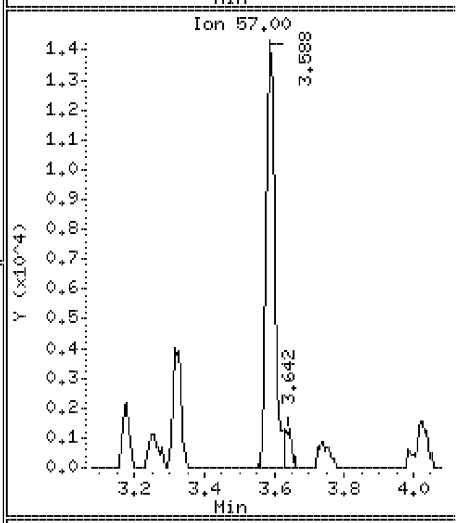


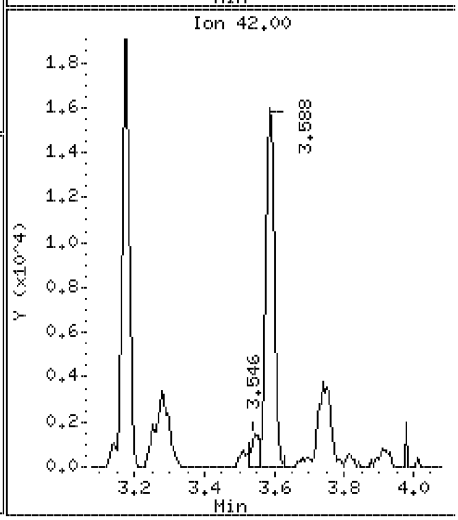












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

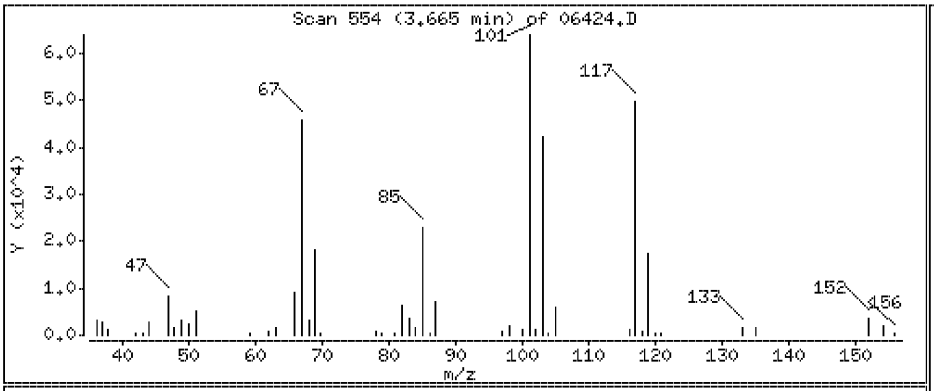
Operator: NCK

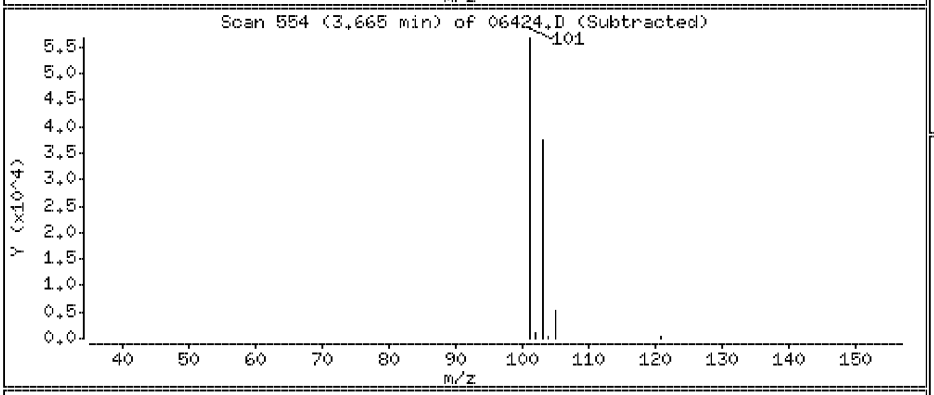
Column phase: J&W DB-5

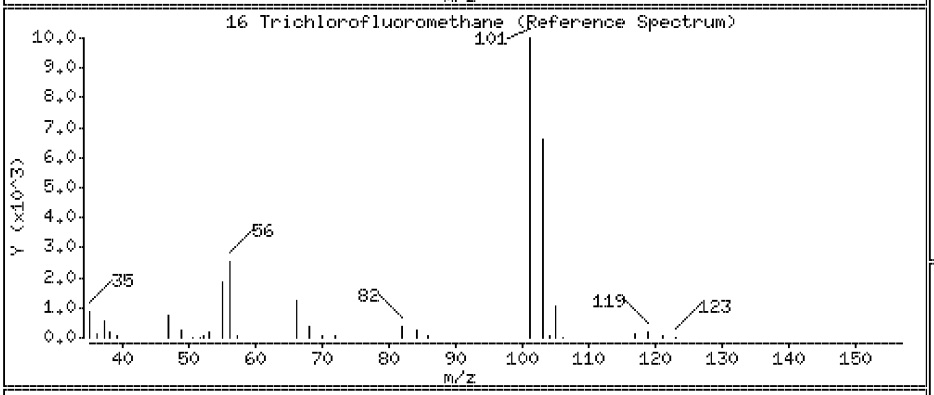
Column diameter: 0.32

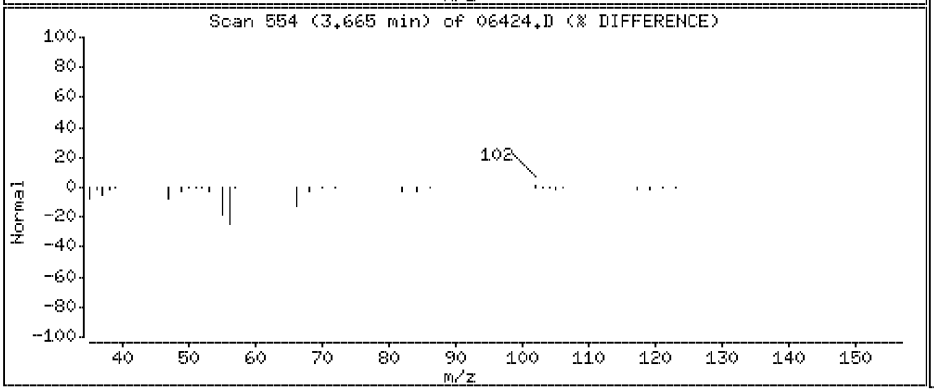
16 Trichlorofluoromethane

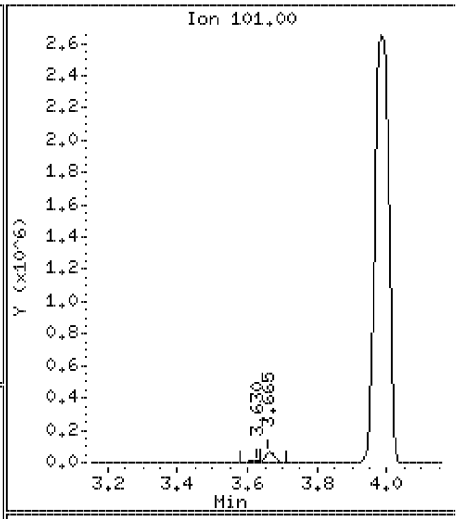
Concentration: 5.91 ppbv

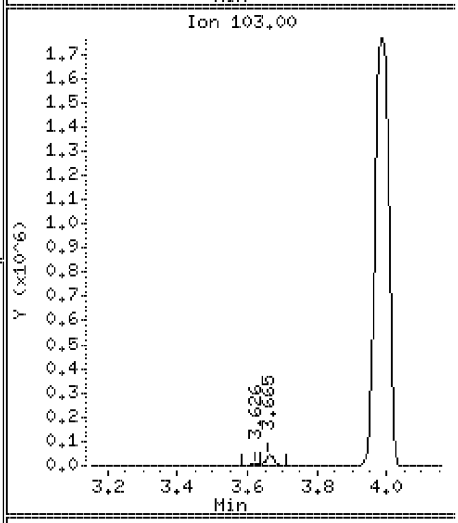


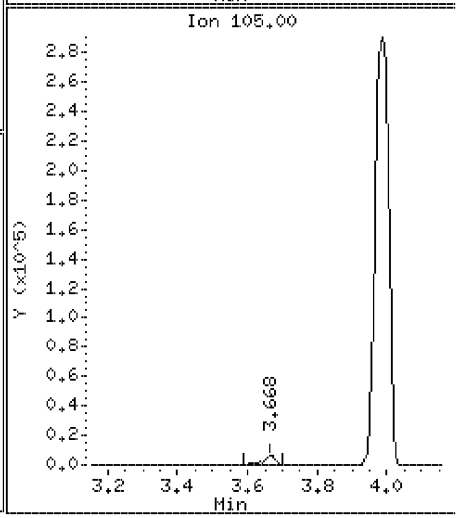












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

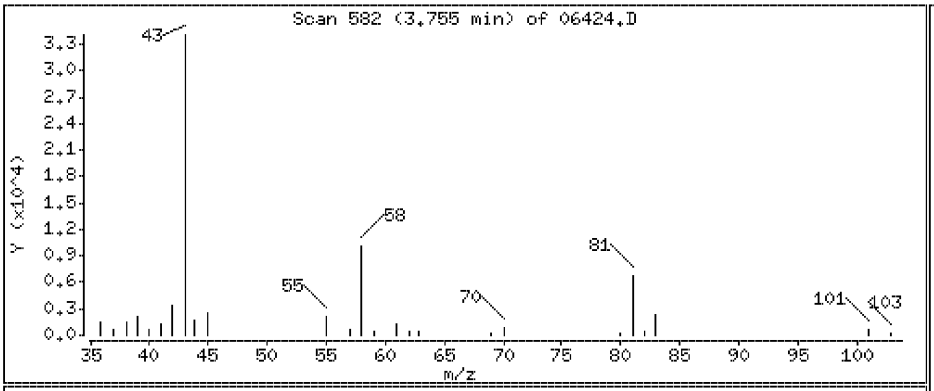
Operator: NCK

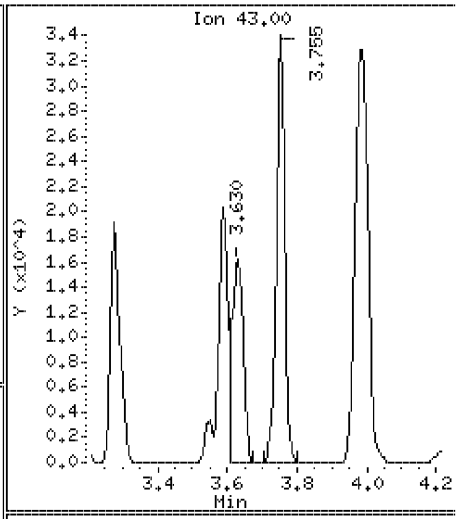
Column phase: J&W DB-5

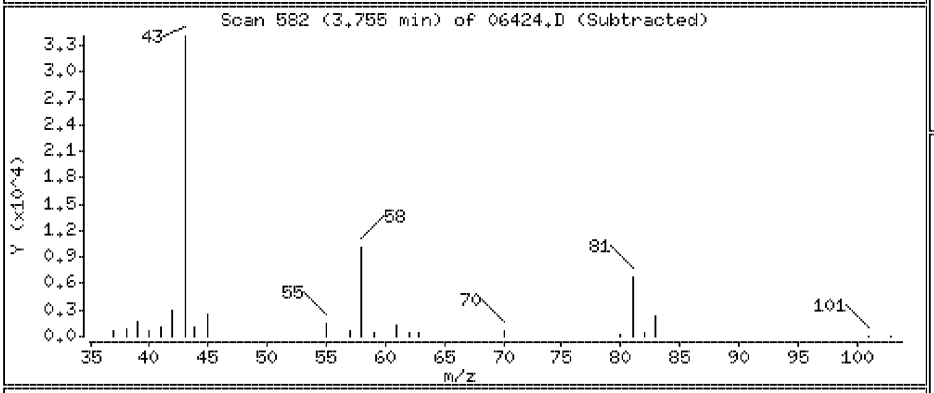
Column diameter: 0.32

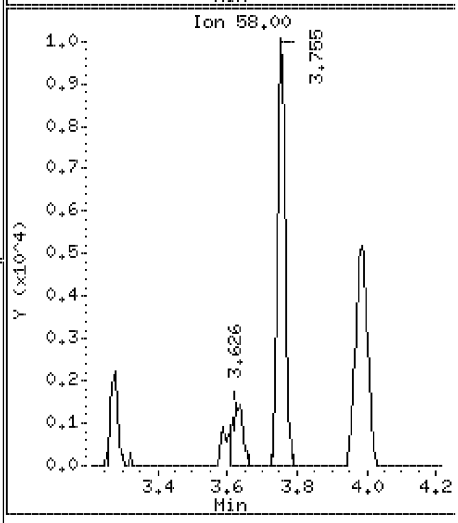
18 Acetone

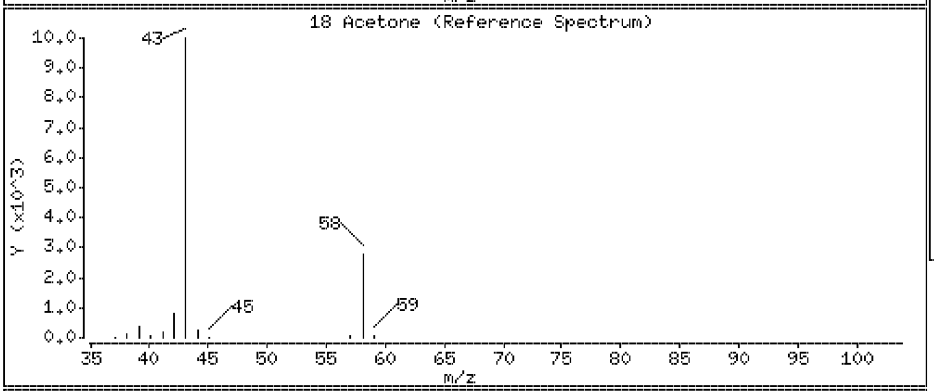
Concentration: 4.57 ppbv

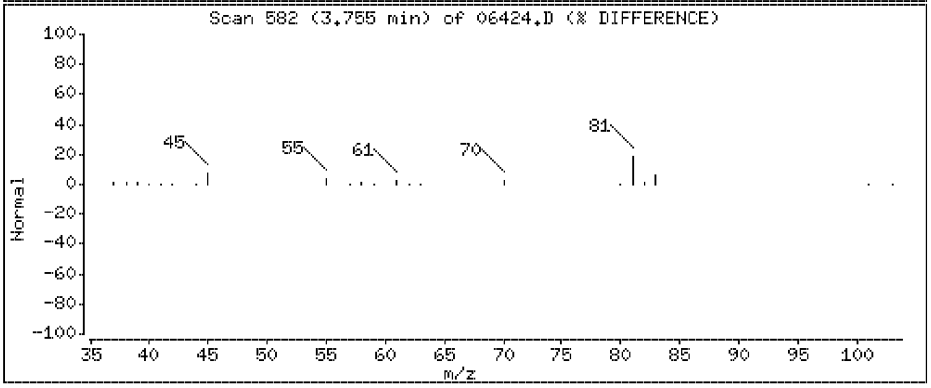












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

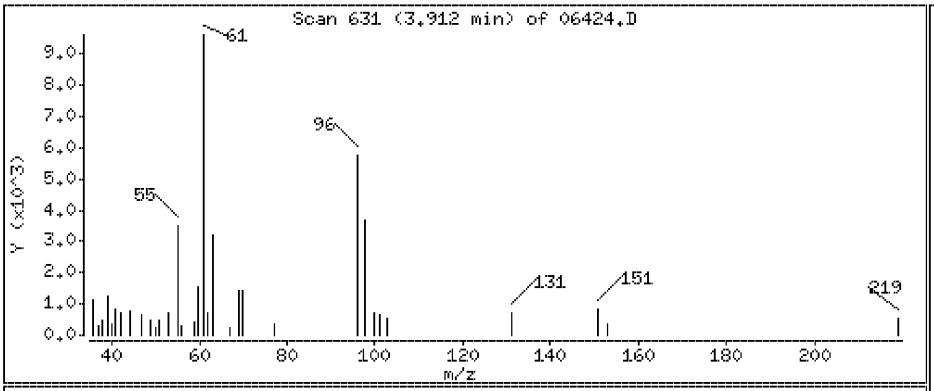
Operator: NCK

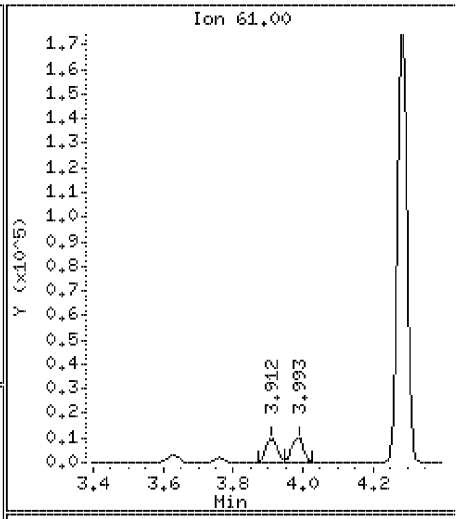
Column phase: J&W DB-5

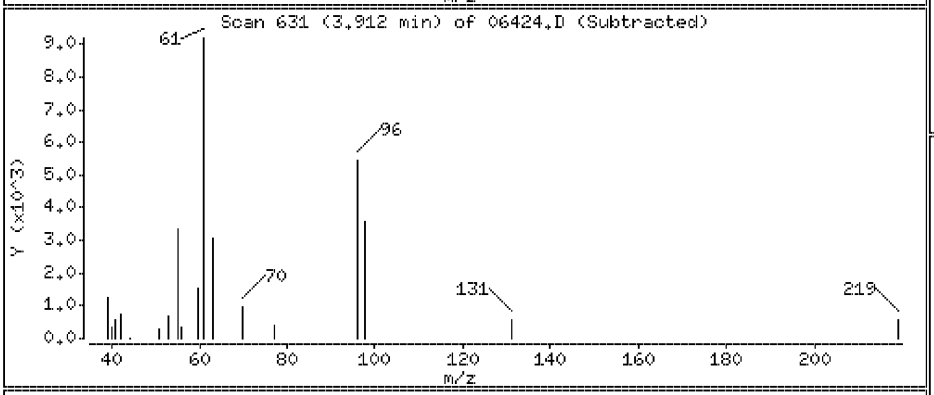
Column diameter: 0.32

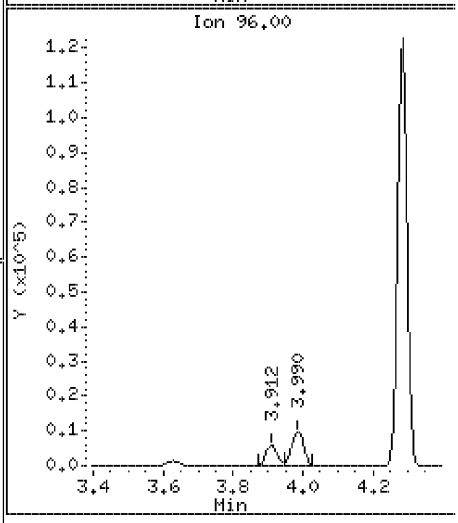
20 1,1-Dichloroethene

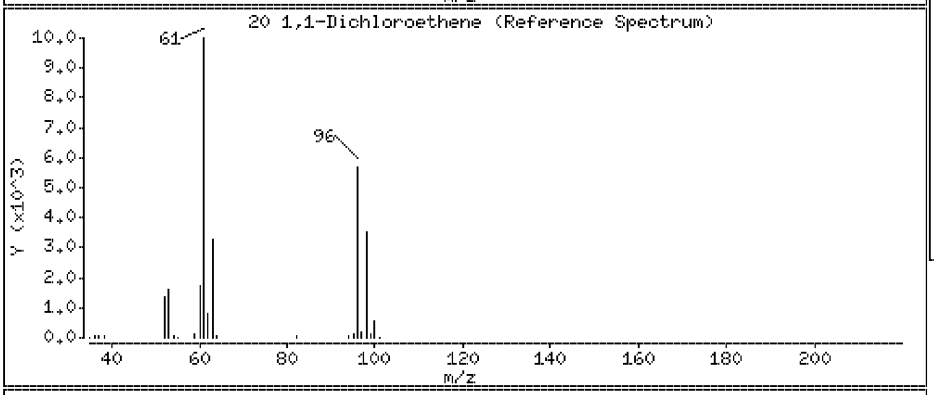
Concentration: 1.89 ppbv

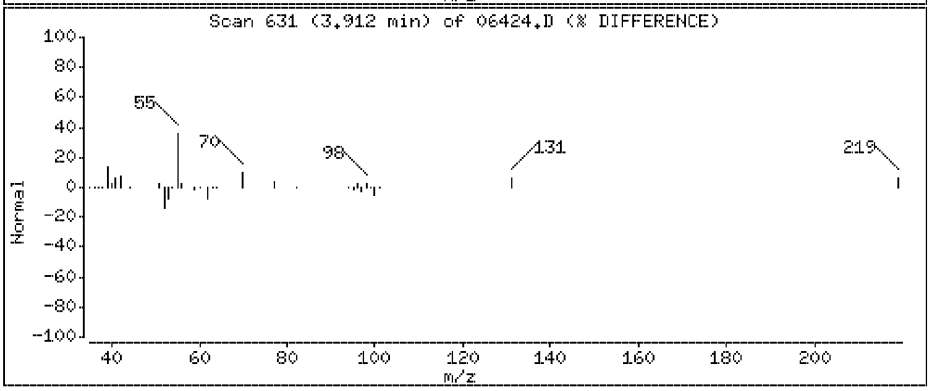












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

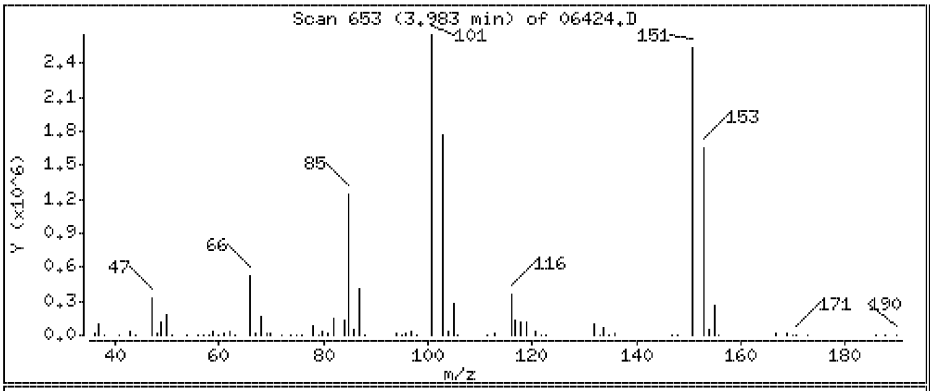
Operator: NCK

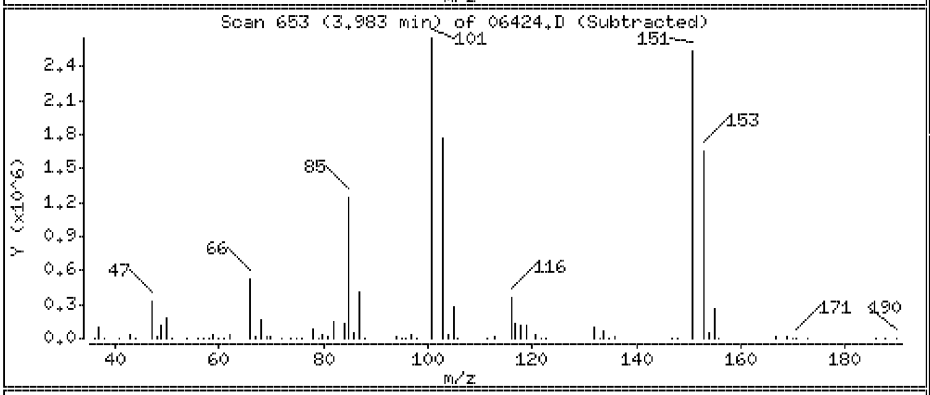
Column phase: J&W DB-5

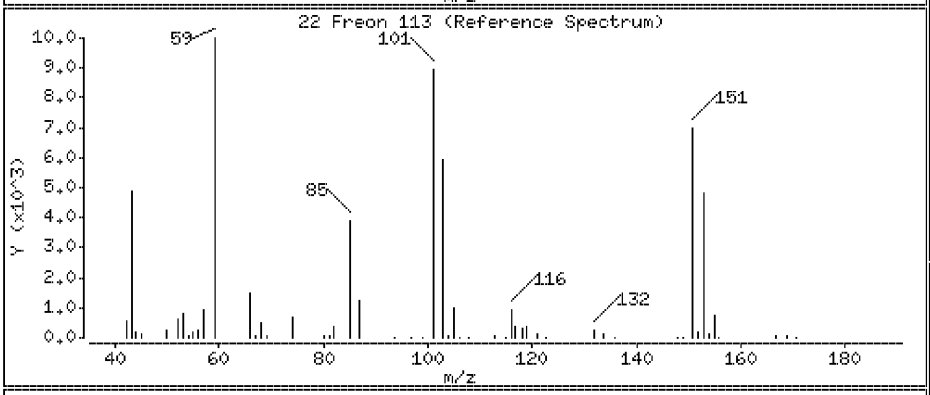
Column diameter: 0.32

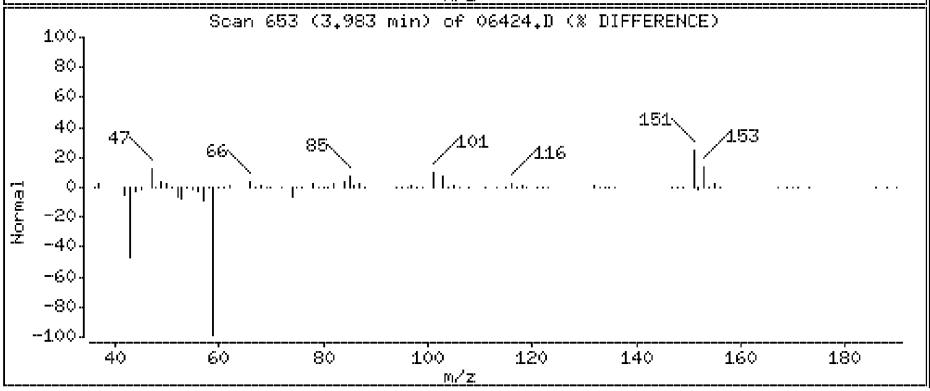
22 Freon 113

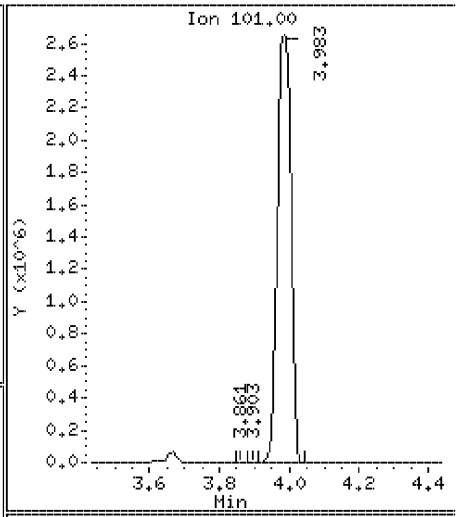
Concentration: 470 ppbv

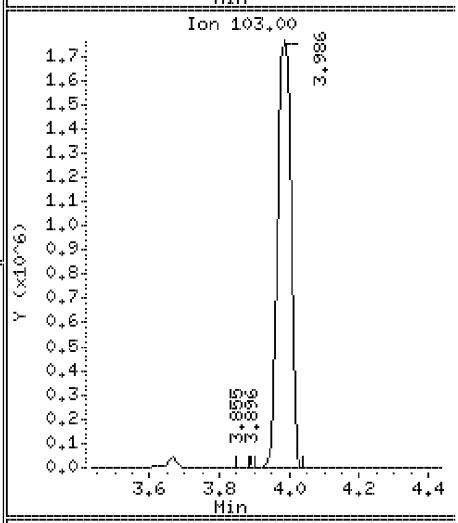


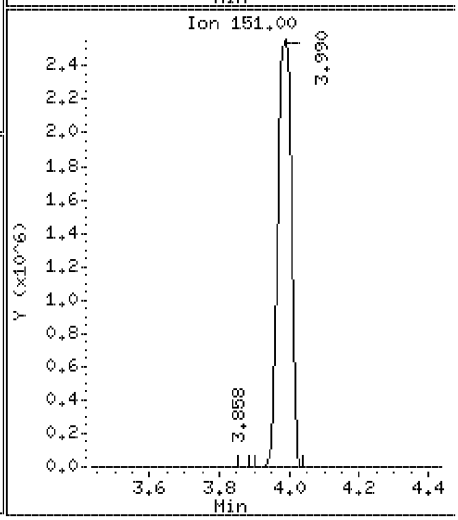












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

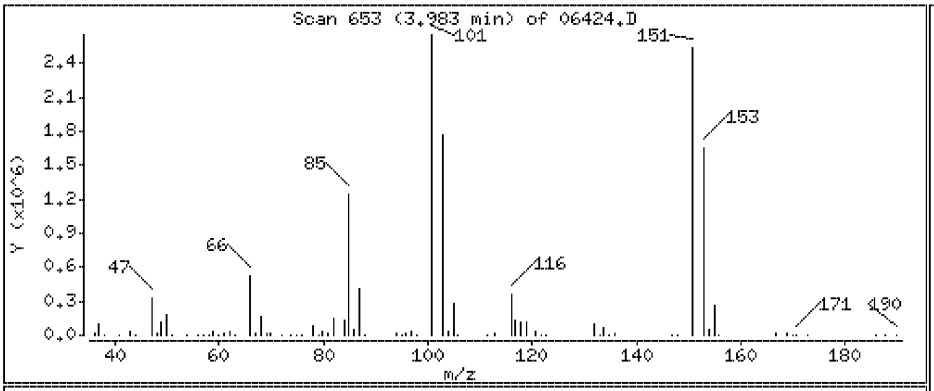
Operator: NCK

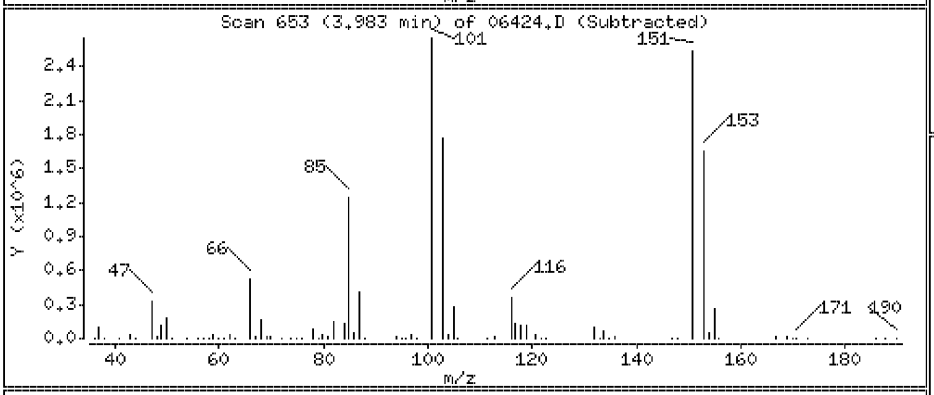
Column phase: J&W DB-5

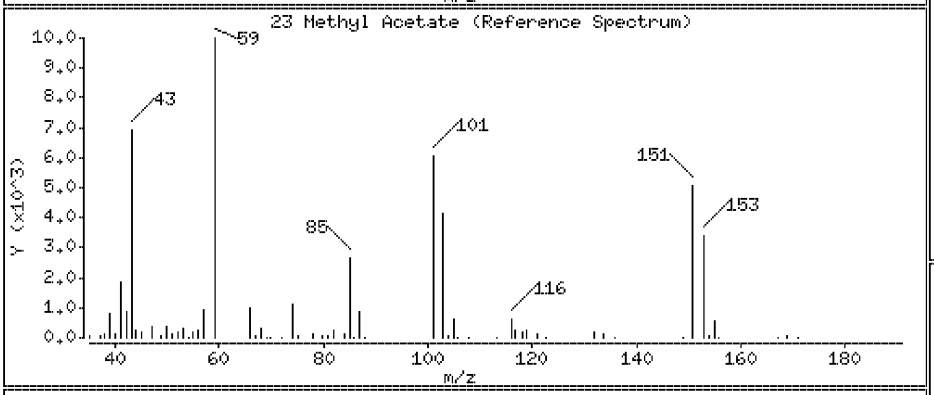
Column diameter: 0.32

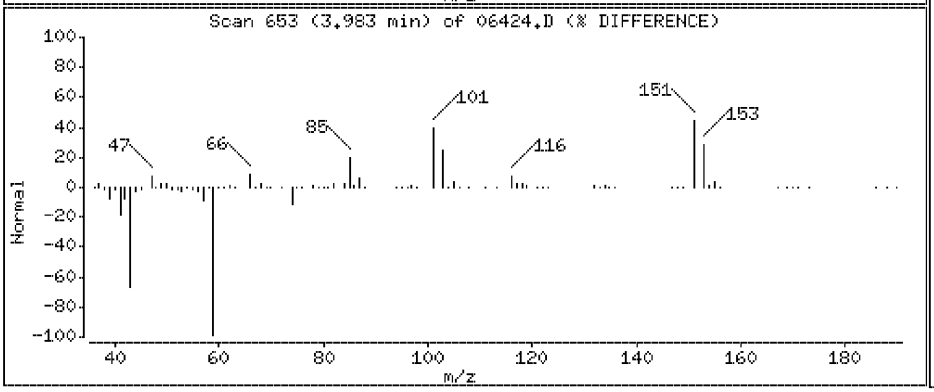
23 Methyl Acetate

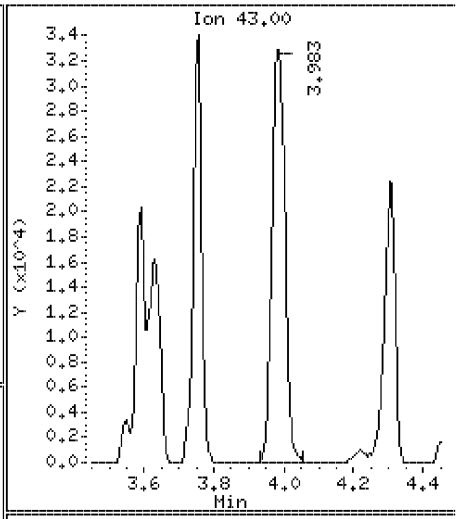
Concentration: 4.80 ppbv

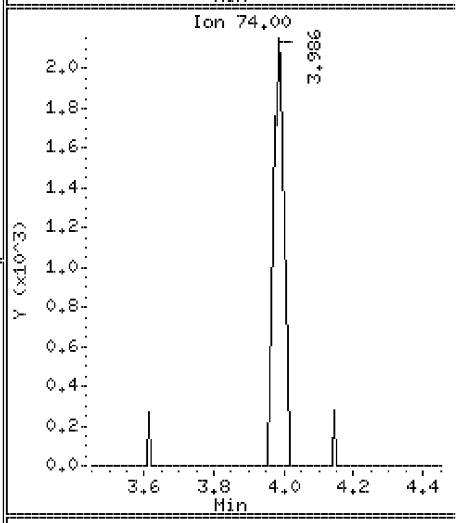


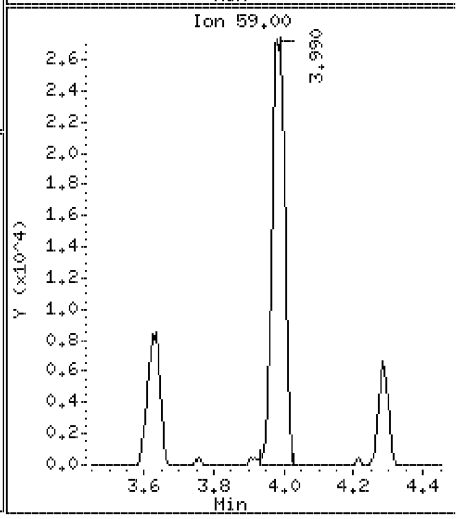












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

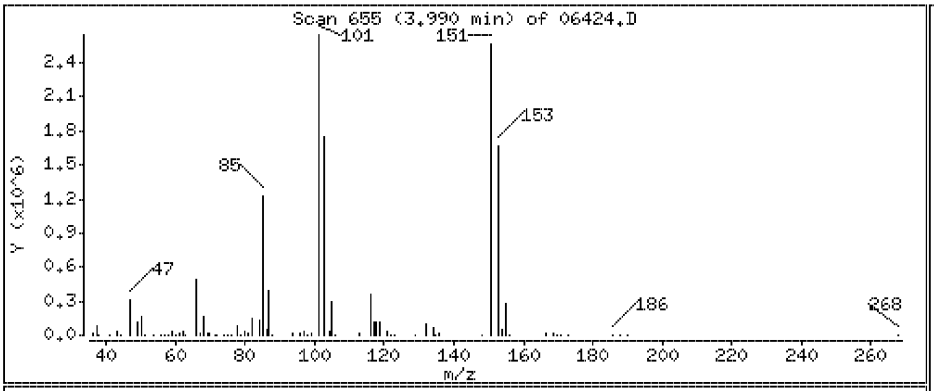
Operator: NCK

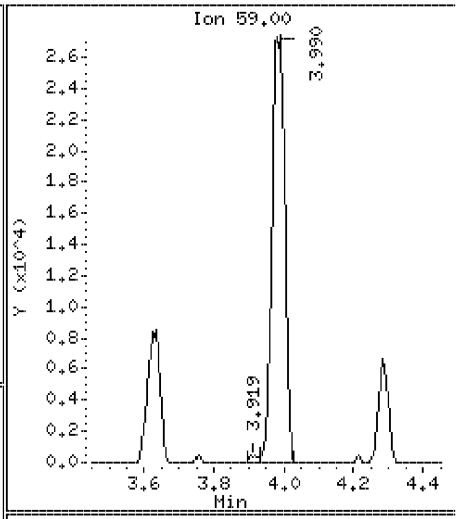
Column phase: J&W DB-5

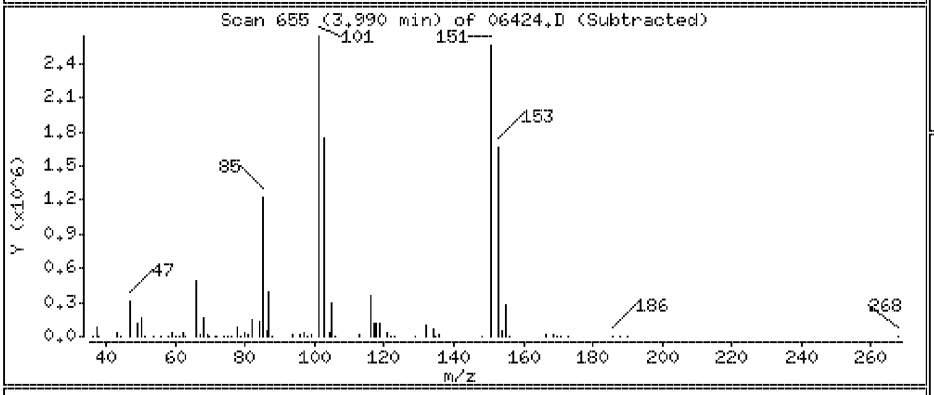
Column diameter: 0.32

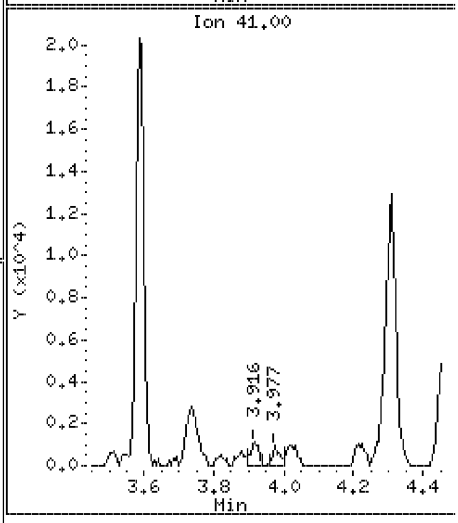
24 Tert Butyl Alcohol (TBA)

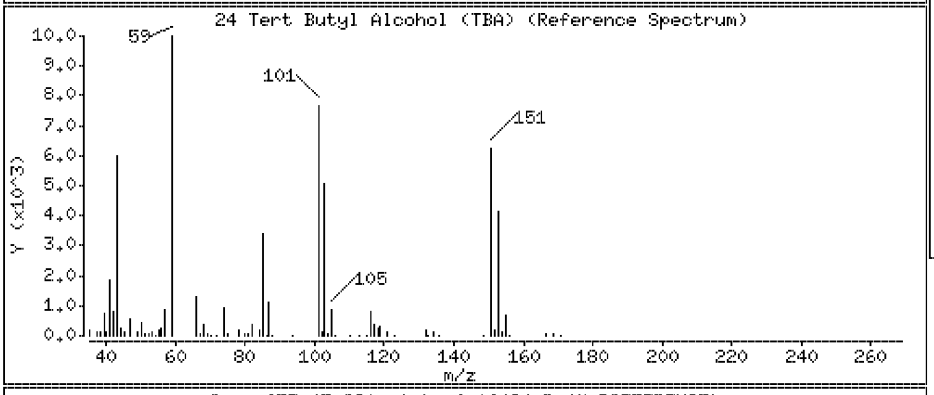
Concentration: 4.47 ppbv

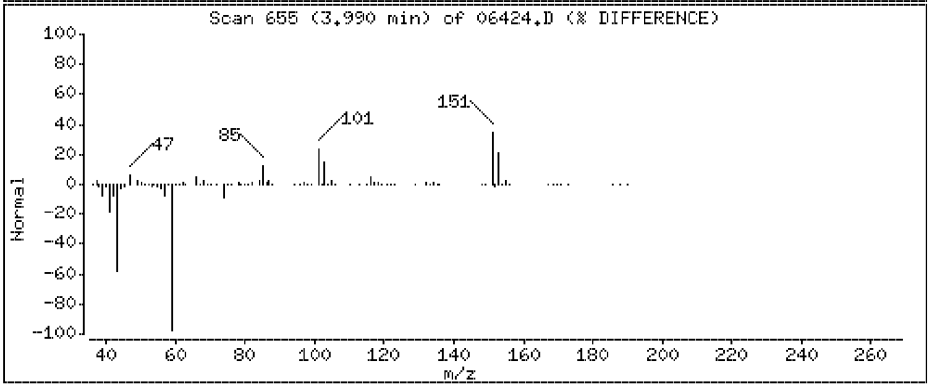












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

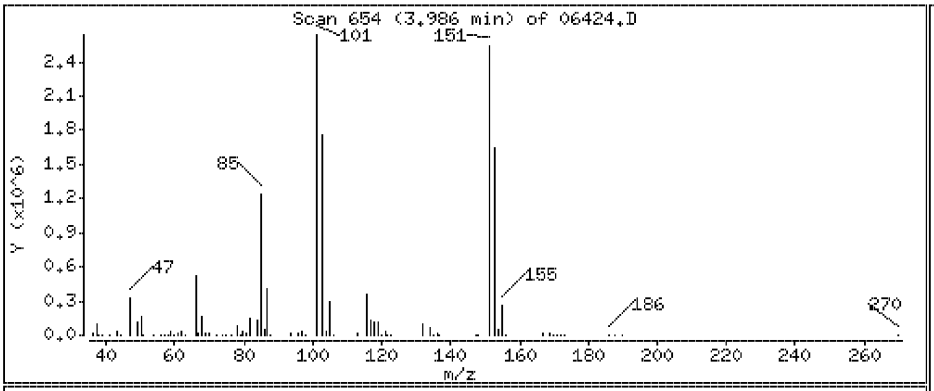
Operator: NCK

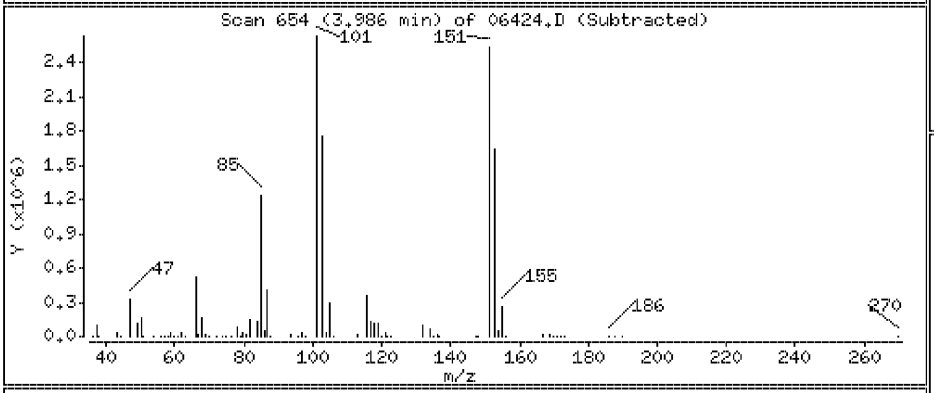
Column phase: J&W DB-5

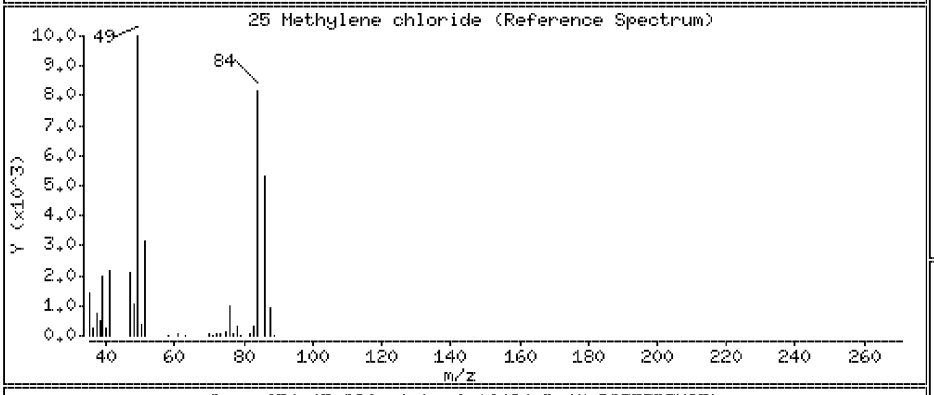
Column diameter: 0.32

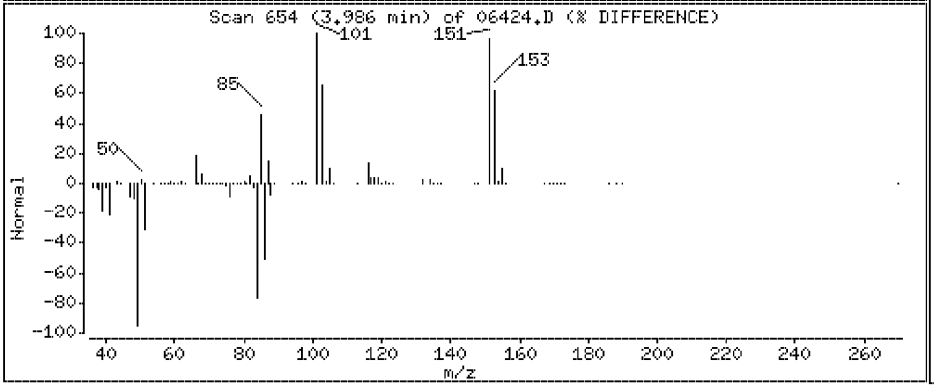
25 Methylene chloride

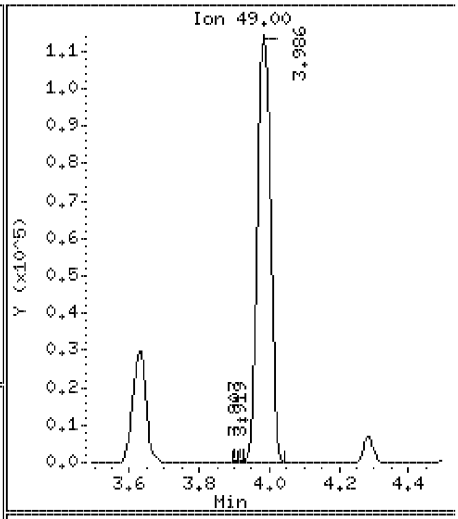
Concentration: 35.1 ppbv

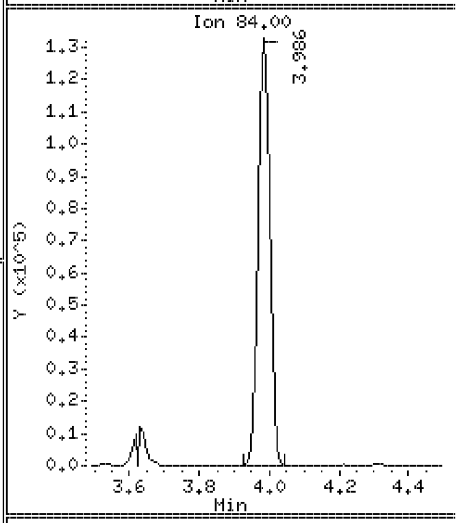


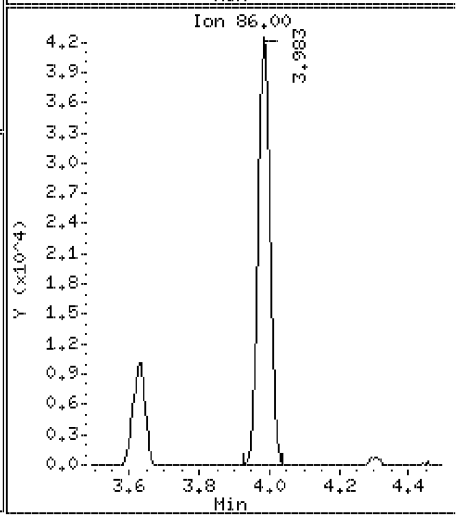












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

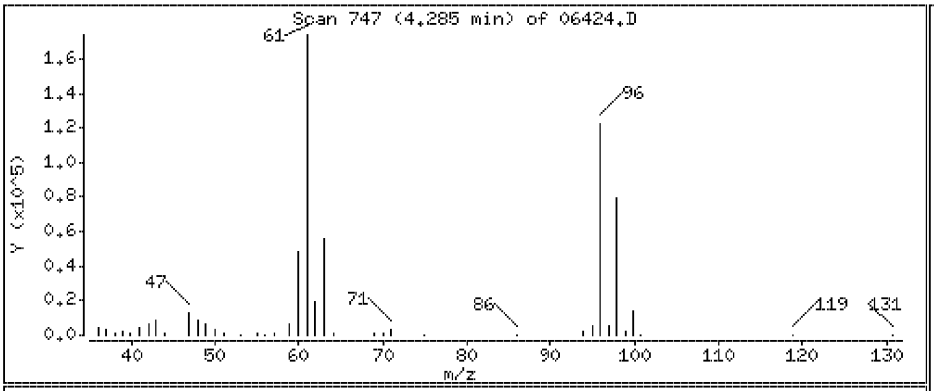
Operator: NCK

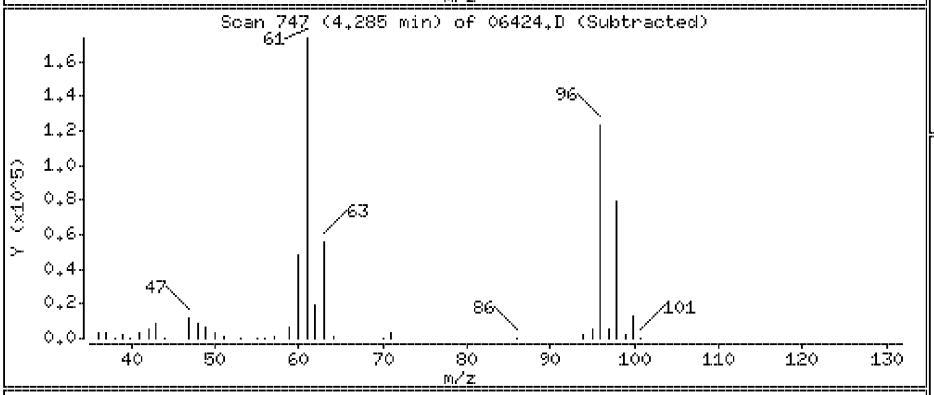
Column phase: J&W DB-5

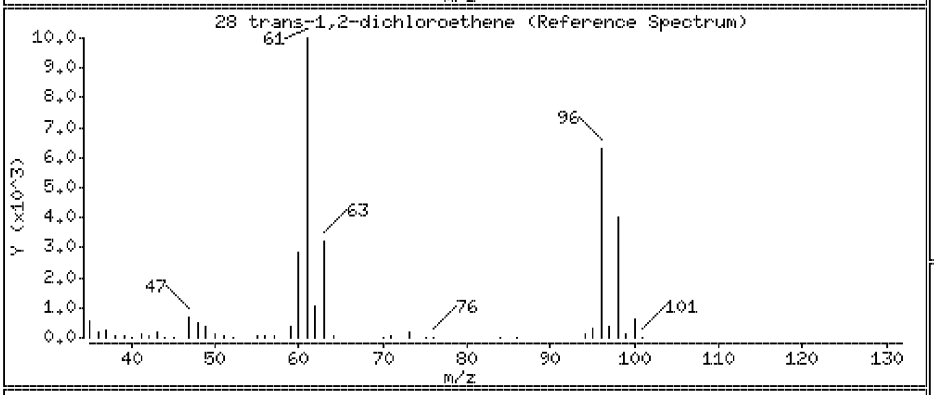
Column diameter: 0.32

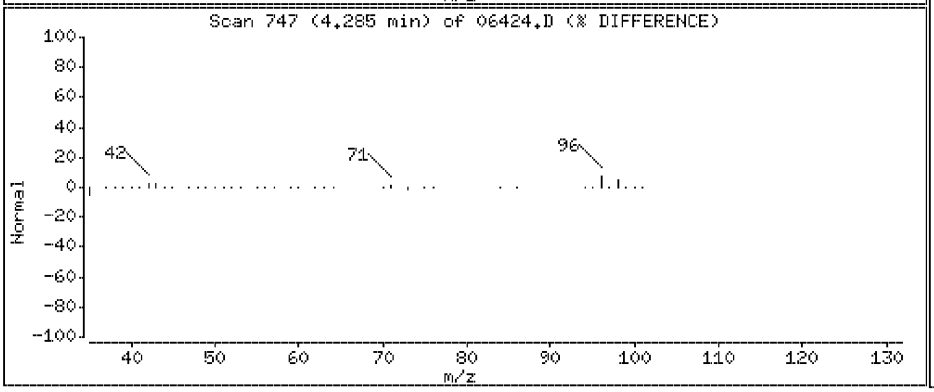
28 trans-1,2-dichloroethene

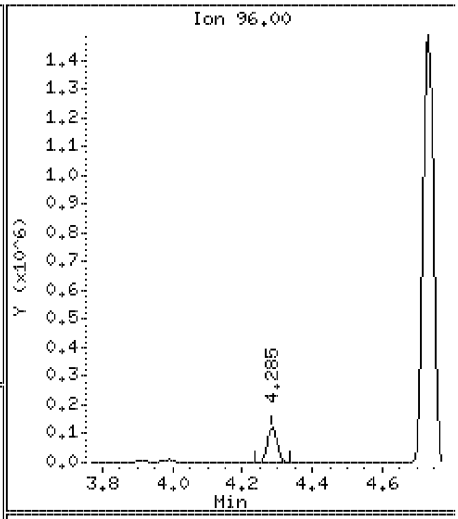
Concentration: 35.3 ppbv

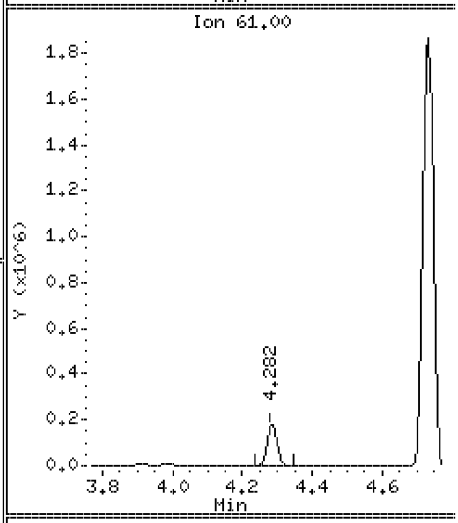


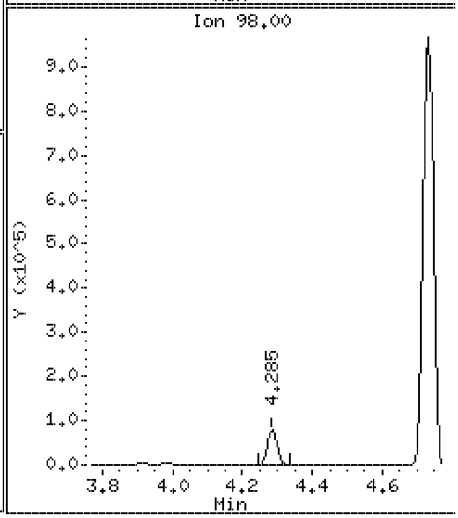












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

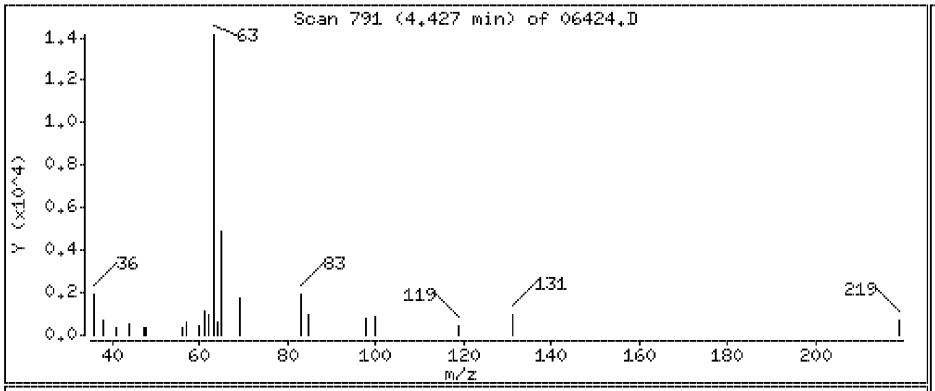
Operator: NCK

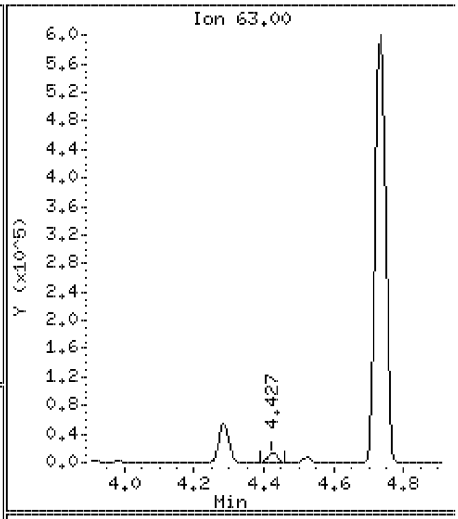
Column phase: J&W DB-5

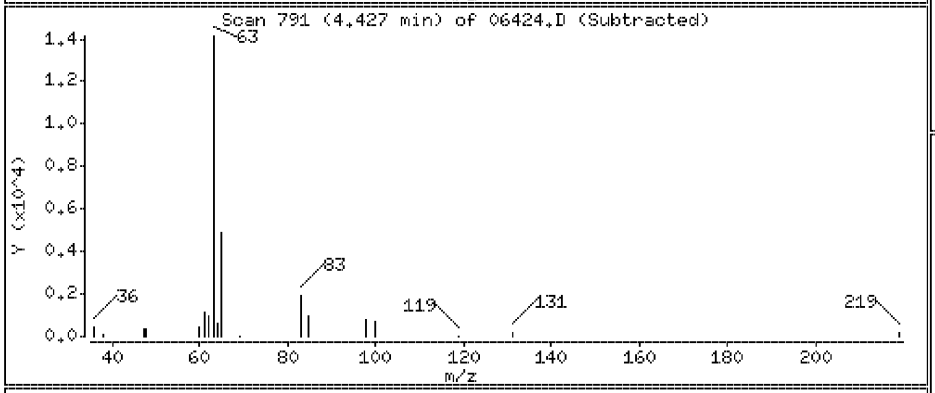
Column diameter: 0.32

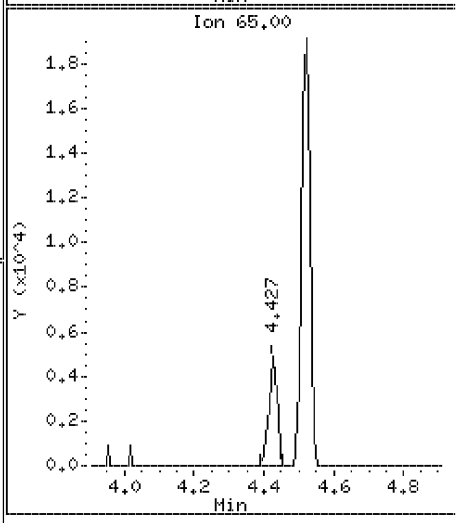
31 1,1-Dichloroethane

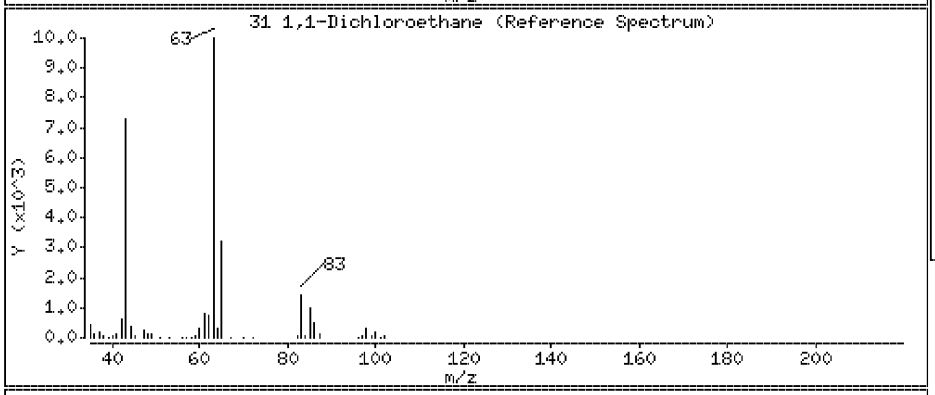
Concentration: 1.82 ppbv

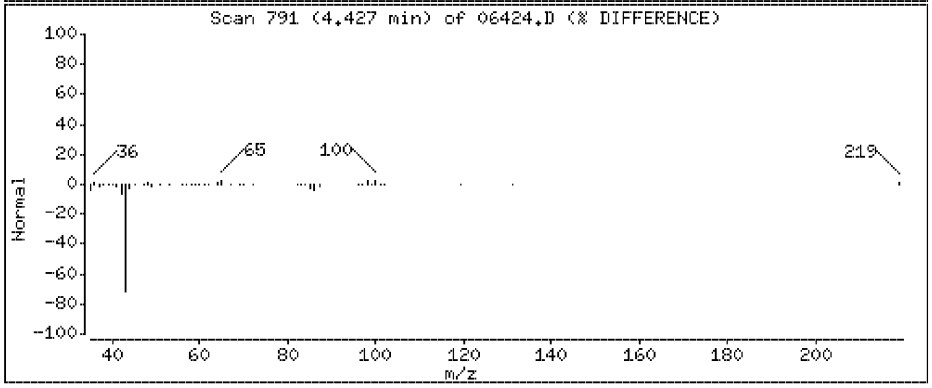












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

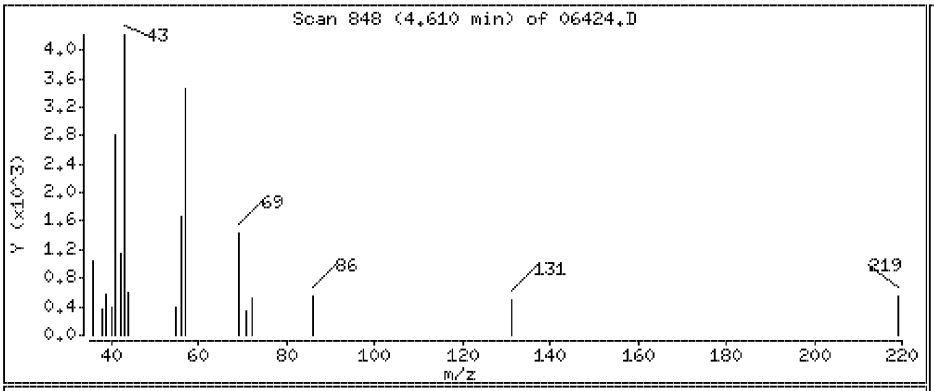
Operator: NCK

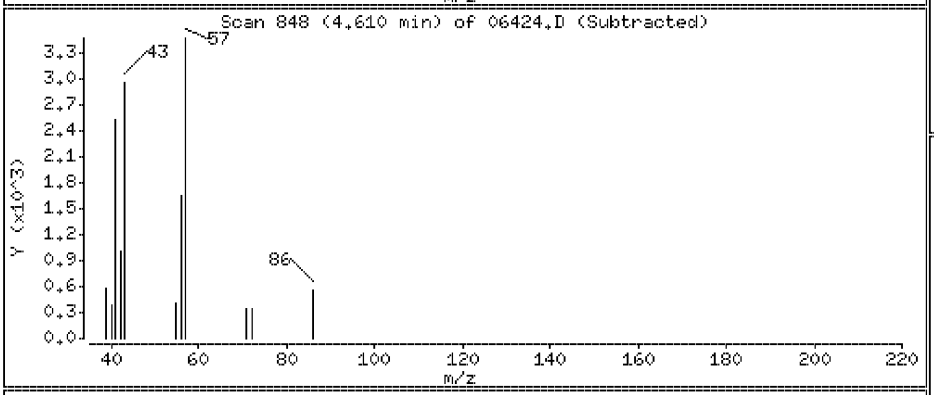
Column phase: J&W DB-5

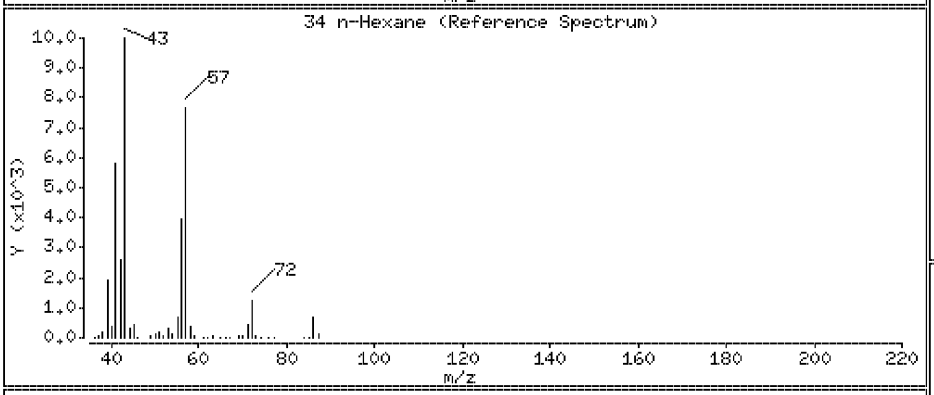
Column diameter: 0.32

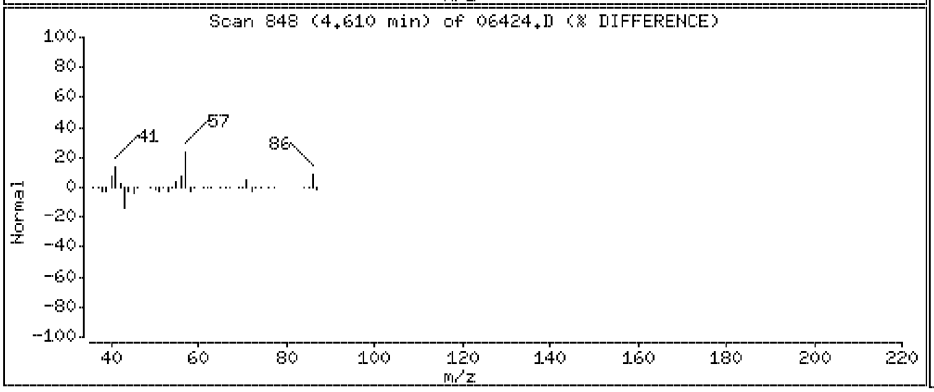
34 n-Hexane

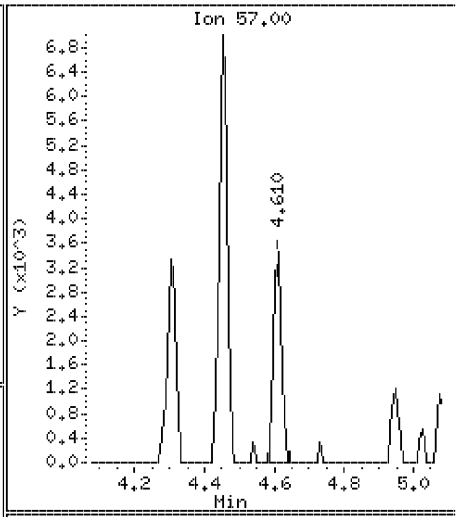
Concentration: 0.453 ppbv

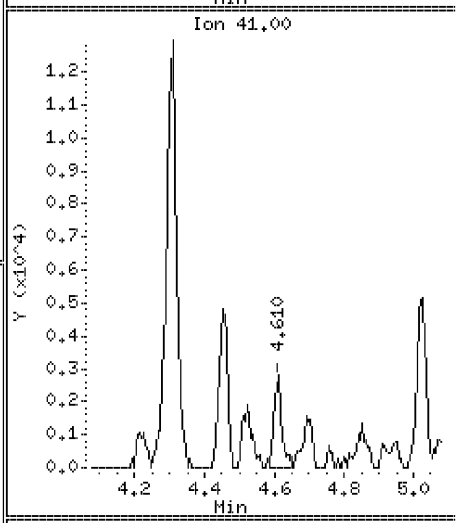


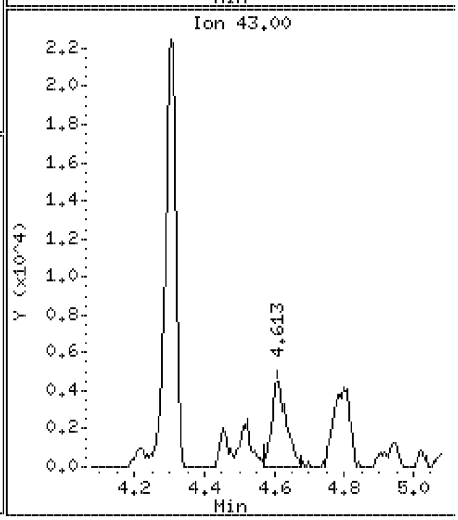












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

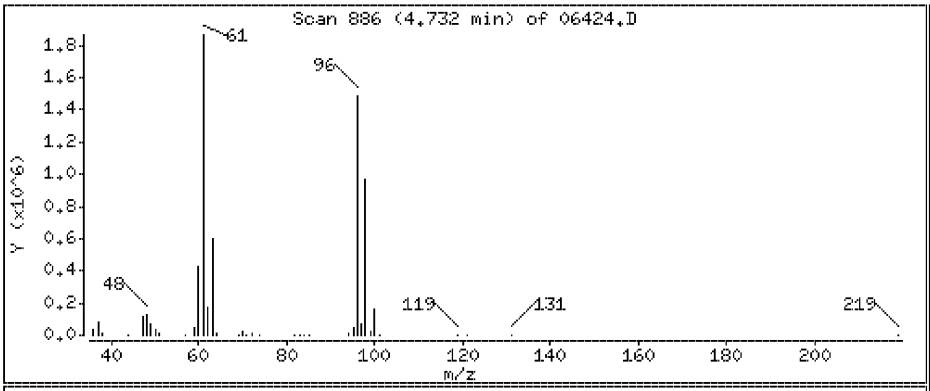
Operator: NCK

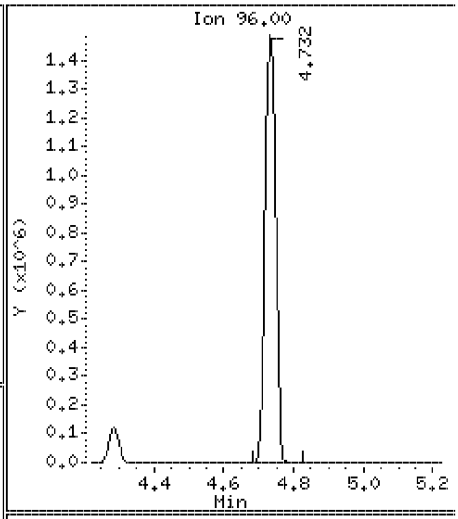
Column phase: J&W DB-5

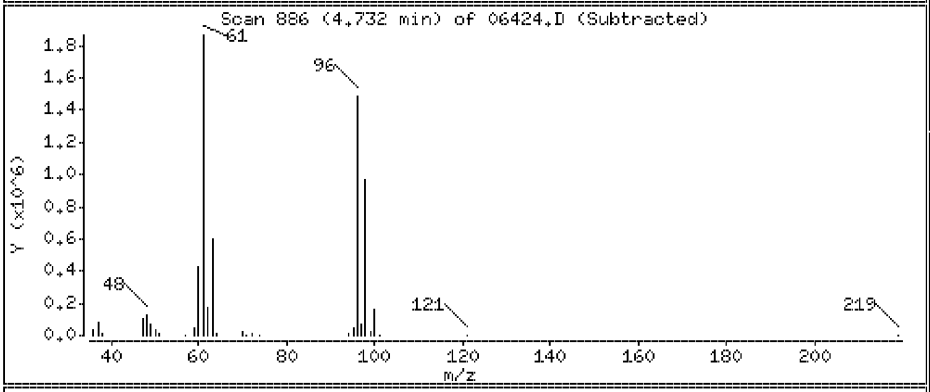
Column diameter: 0.32

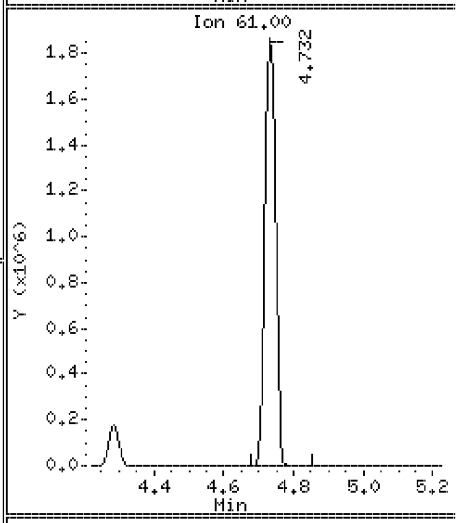
37 cis-1,2-Dichloroethene

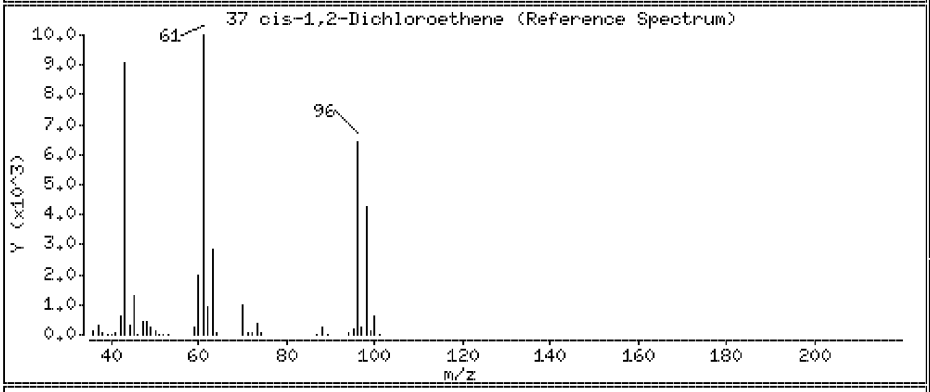
Concentration: 413 ppbv

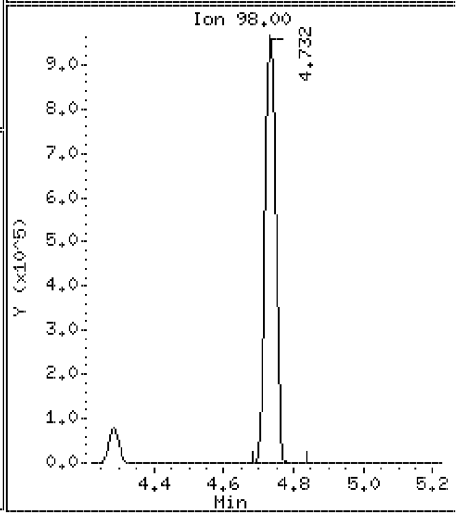


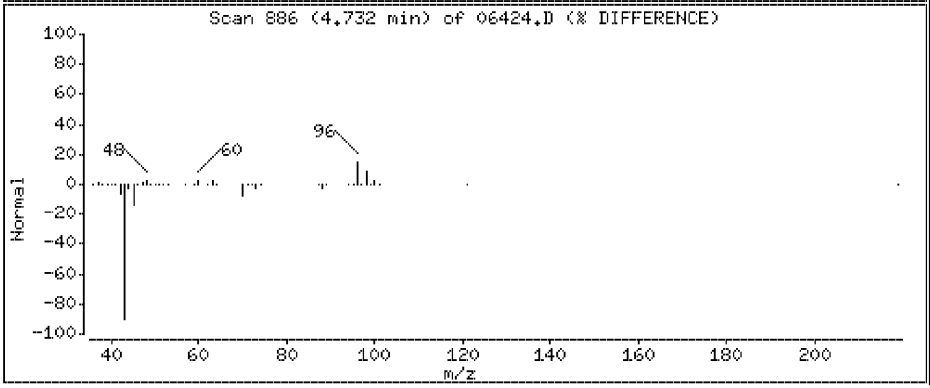












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

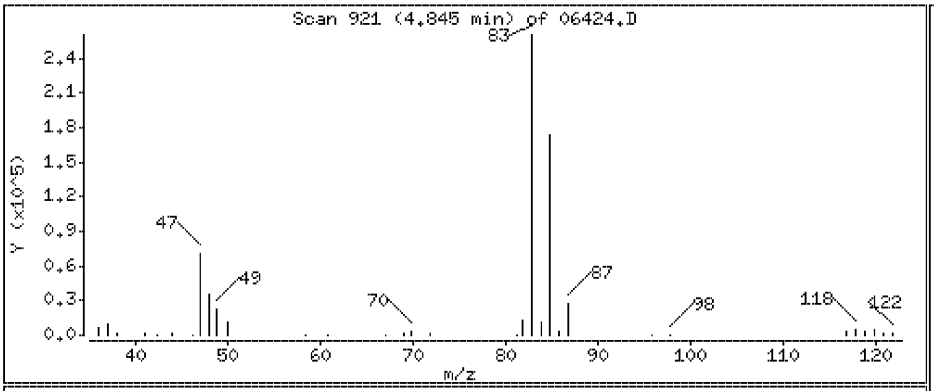
Operator: NCK

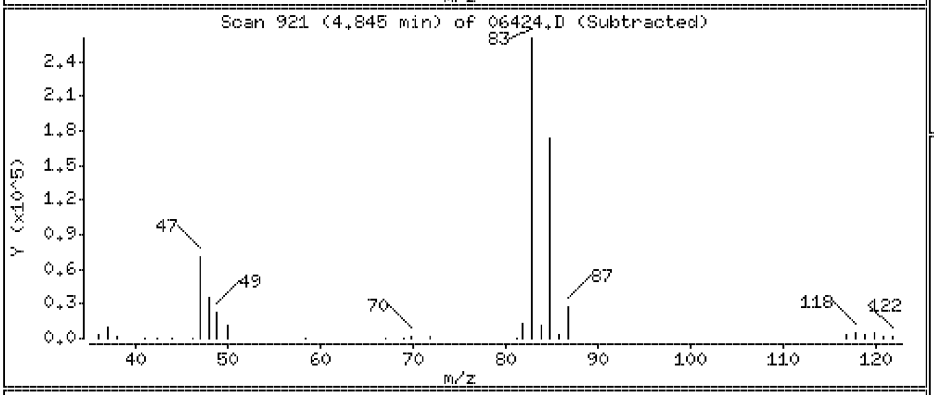
Column phase: J&W DB-5

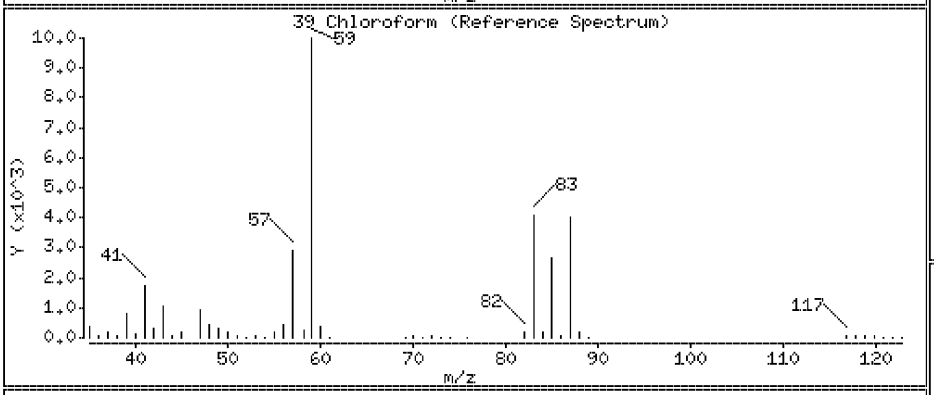
Column diameter: 0.32

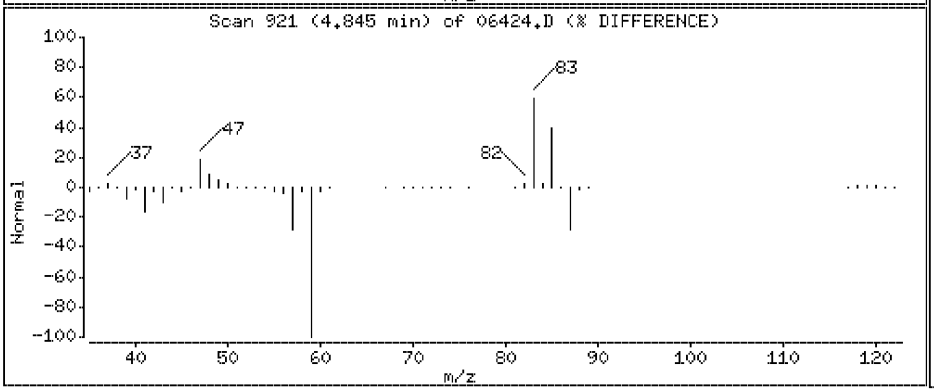
39 Chloroform

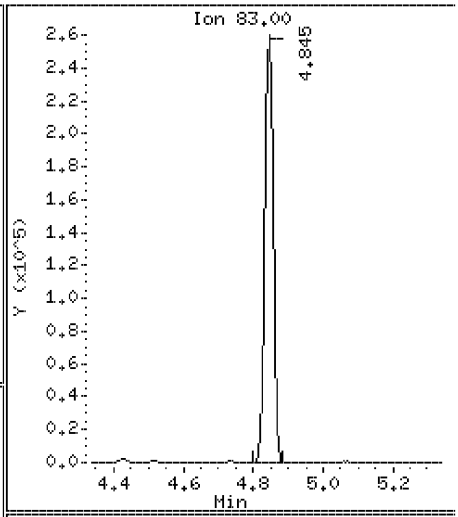
Concentration: 26.9 ppbv

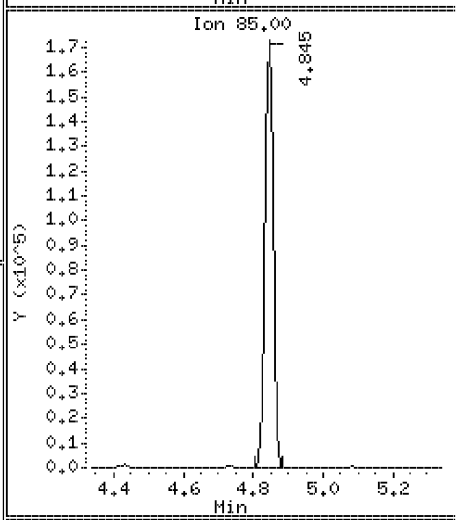


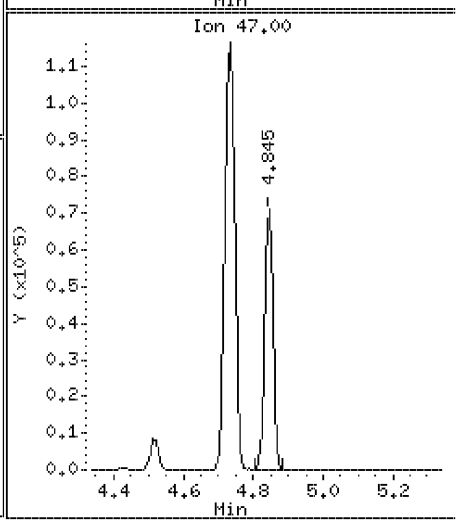












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

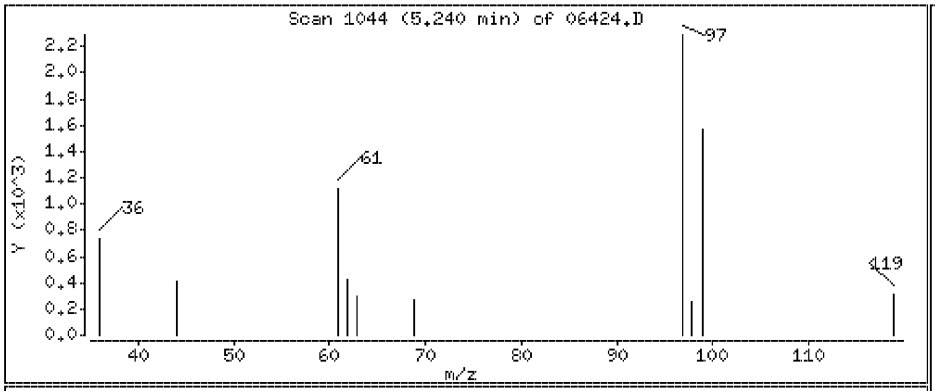
Operator: NCK

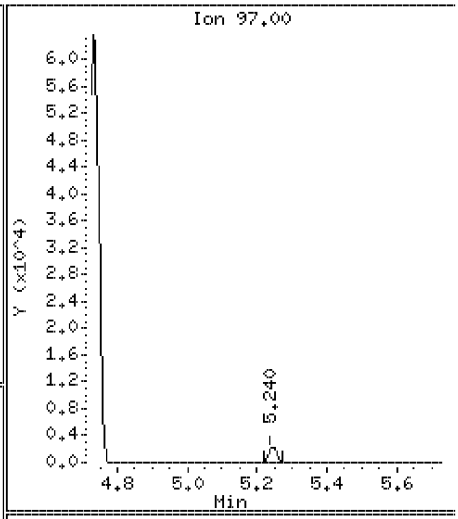
Column phase: J&W DB-5

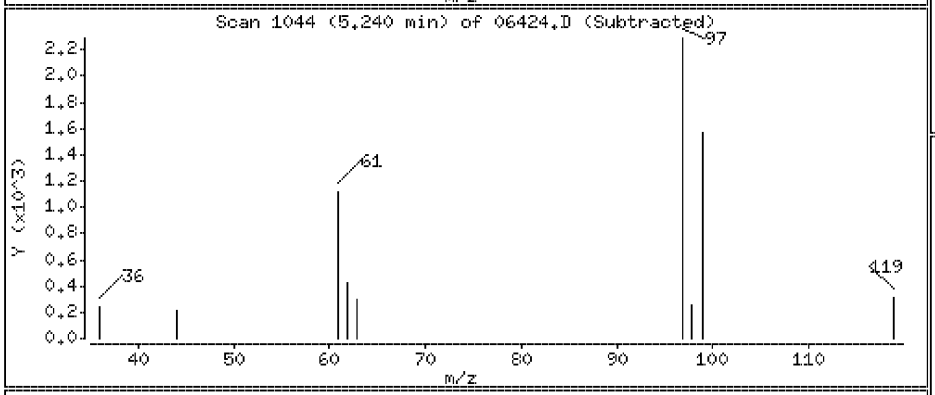
Column diameter: 0.32

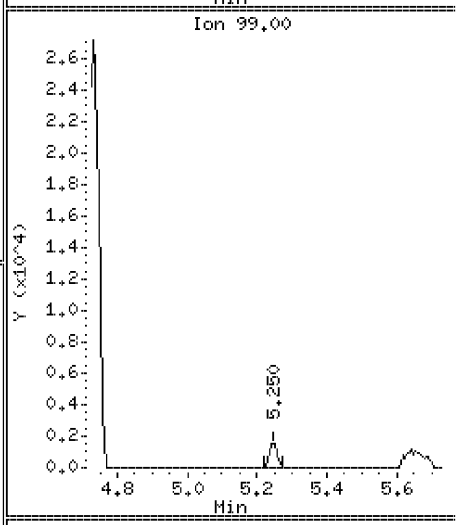
41 1,1,1-Trichloroethane

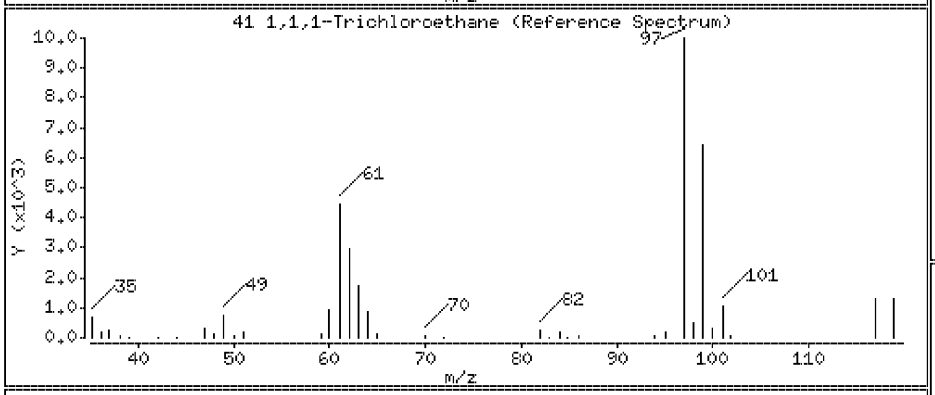
Concentration: 0.208 ppbv

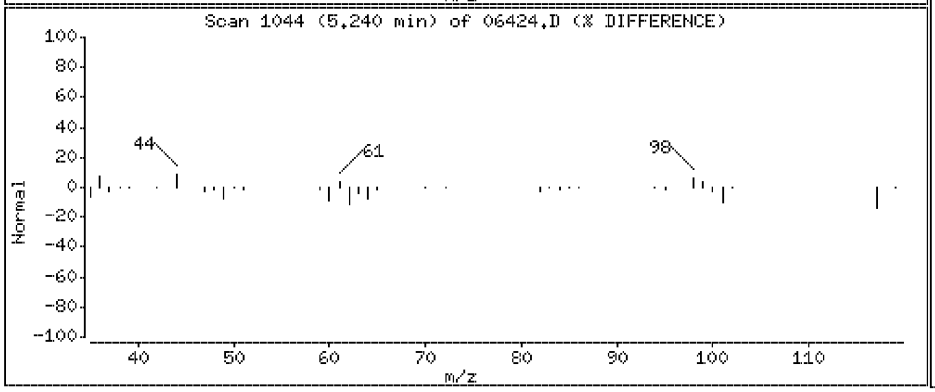


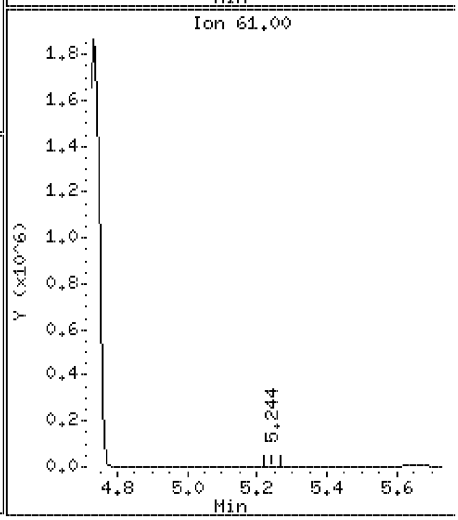












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

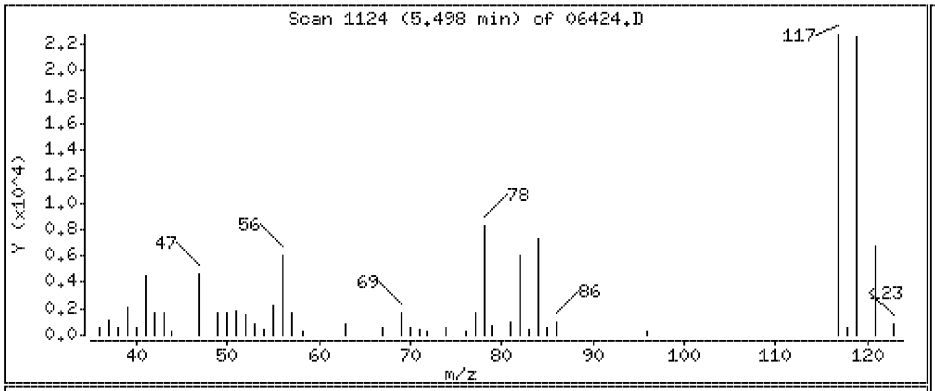
Operator: NCK

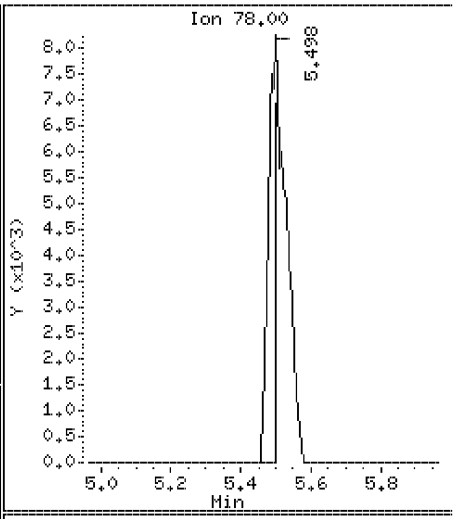
Column phase: J&W DB-5

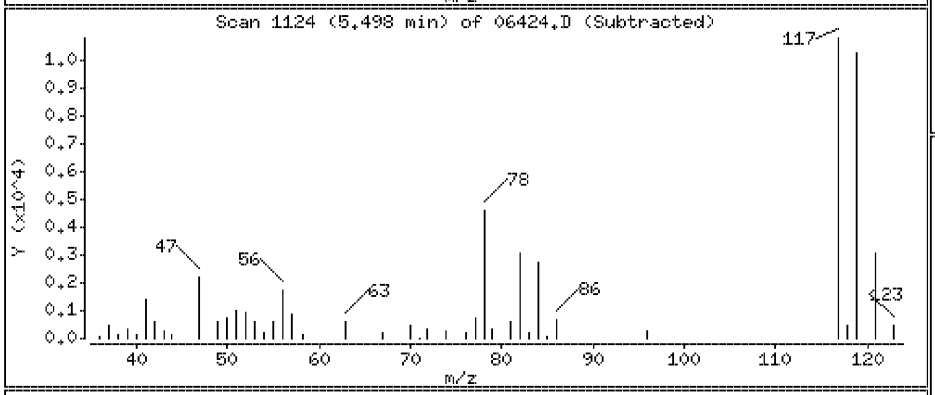
Column diameter: 0.32

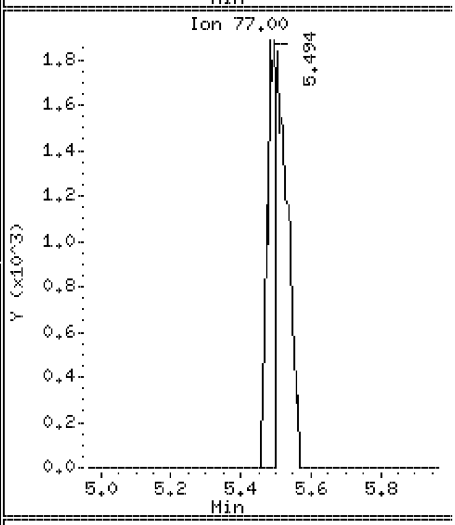
43 Benzene

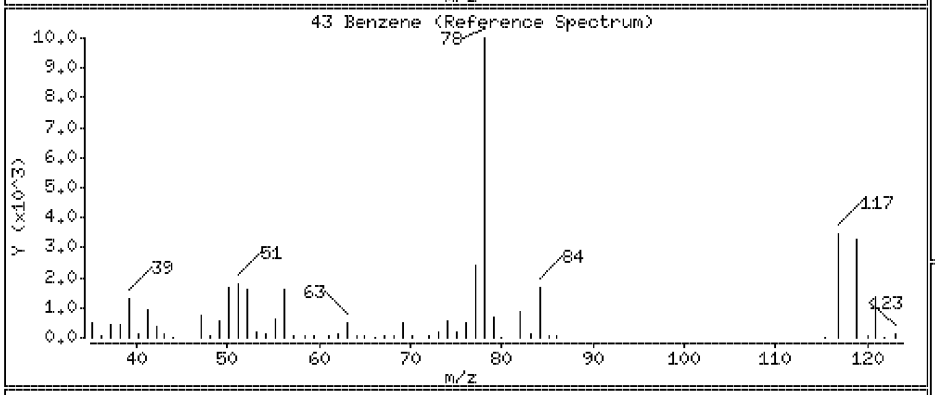
Concentration: 0.527 ppbv

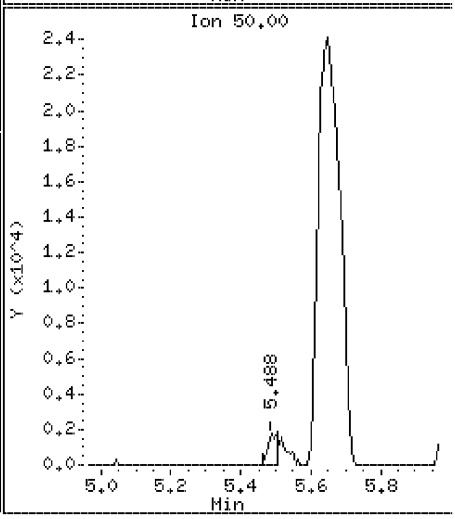


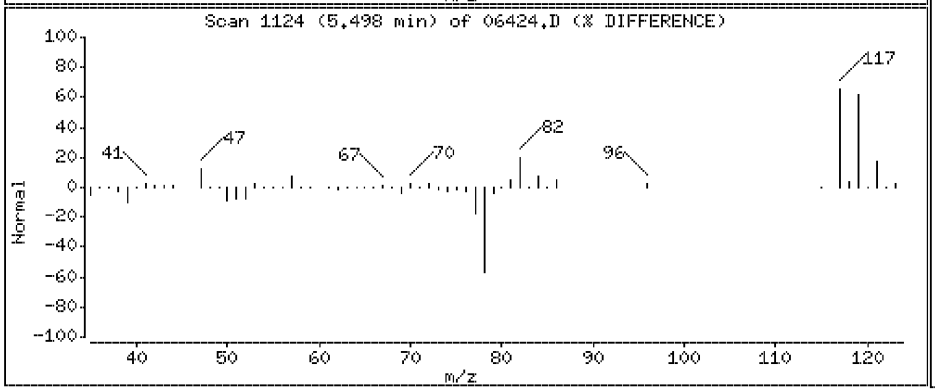












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

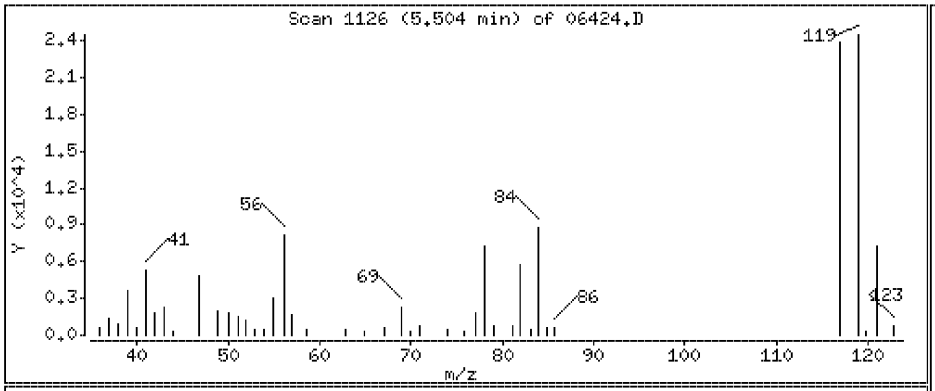
Operator: NCK

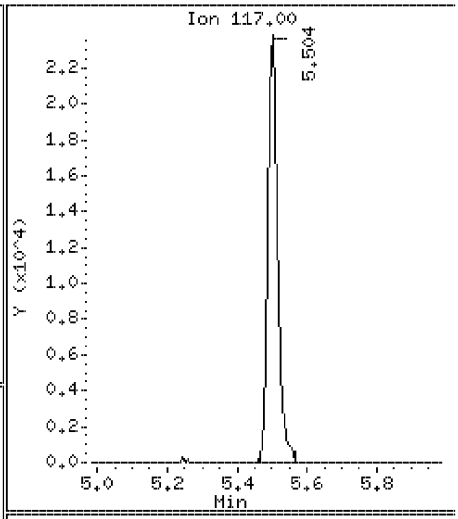
Column phase: J&W DB-5

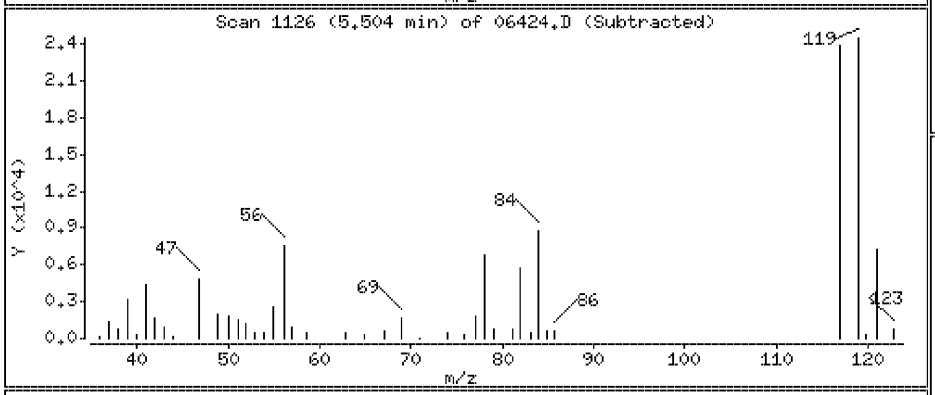
Column diameter: 0.32

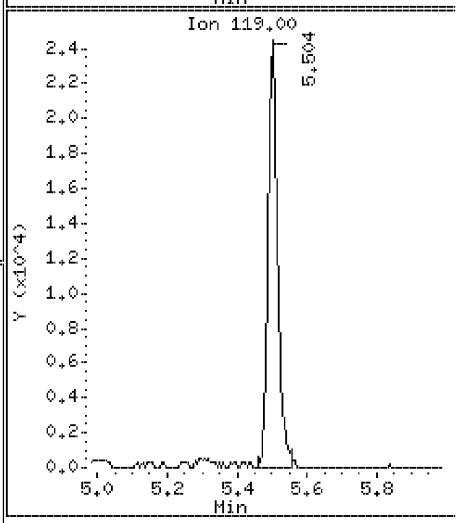
44 Carbon tetrachloride

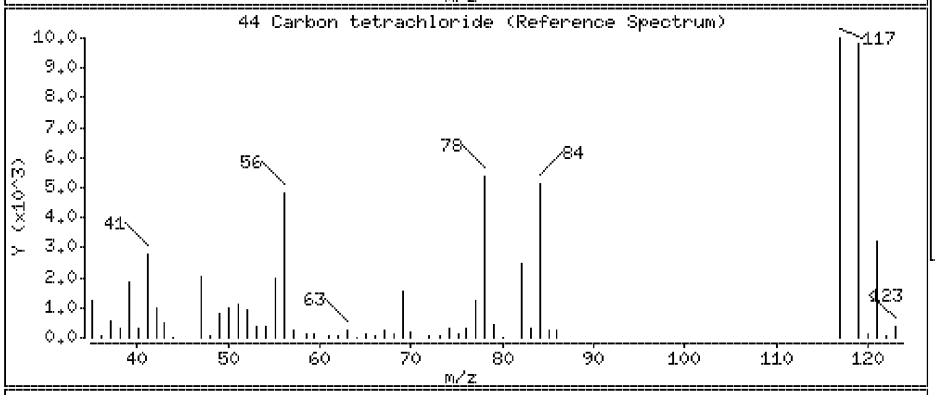
Concentration: 2.60 ppbv

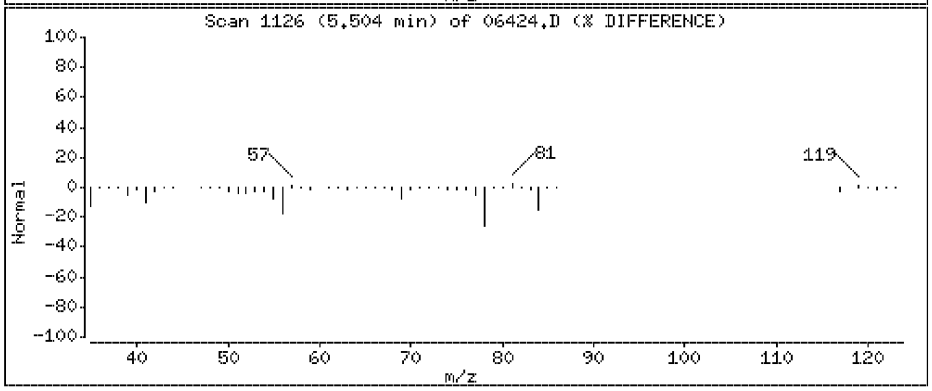












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

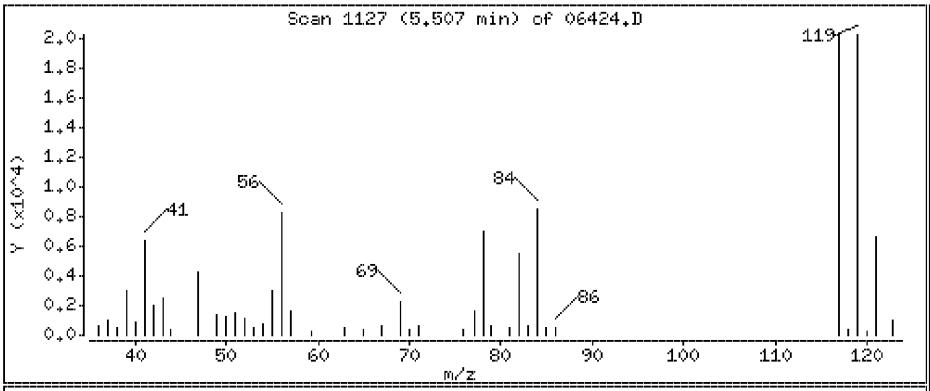
Operator: NCK

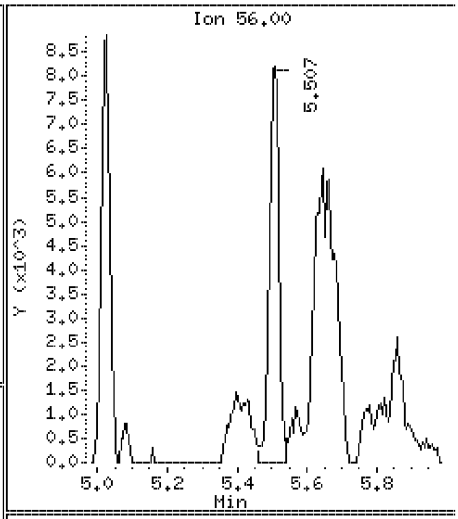
Column phase: J&W DB-5

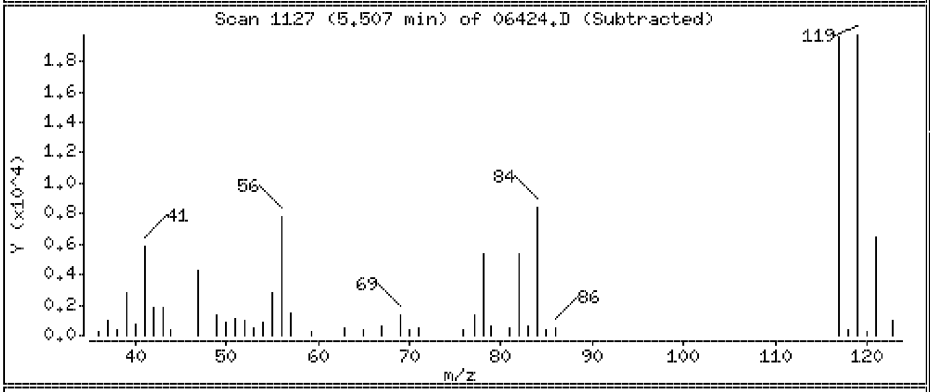
Column diameter: 0.32

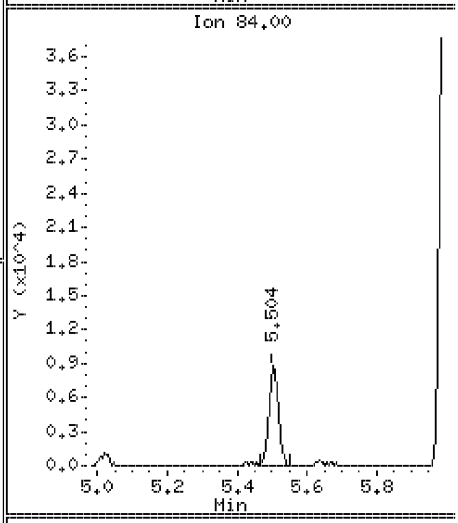
45 Cyclohexane

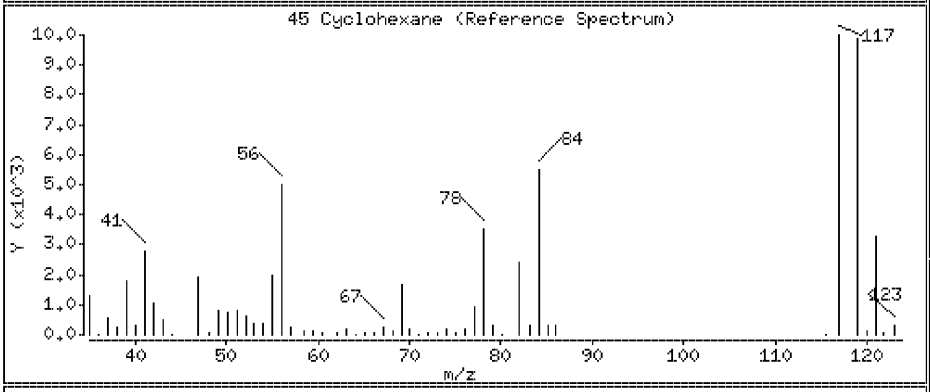
Concentration: 1.29 ppbv

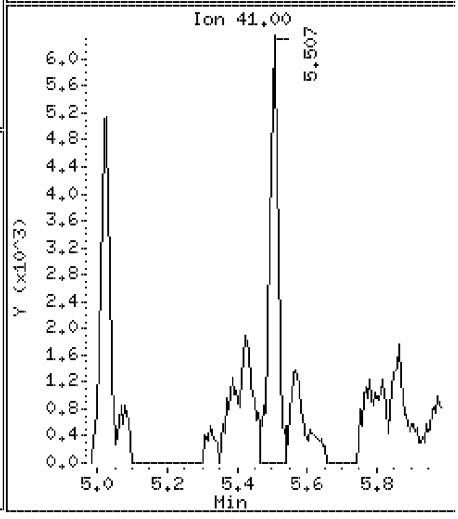


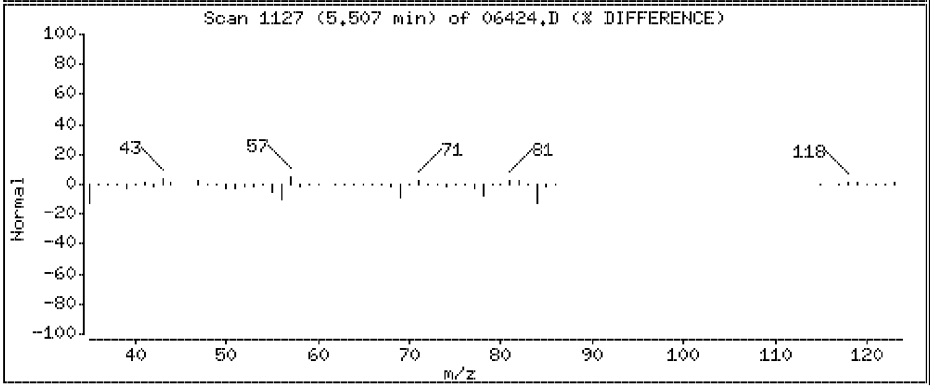












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

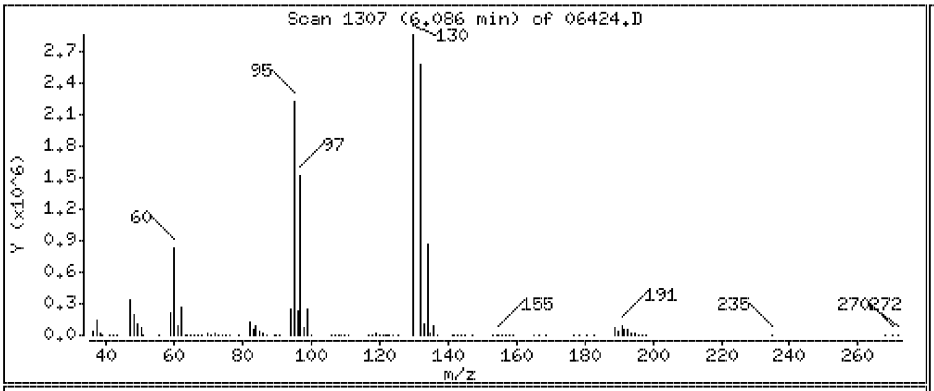
Operator: NCK

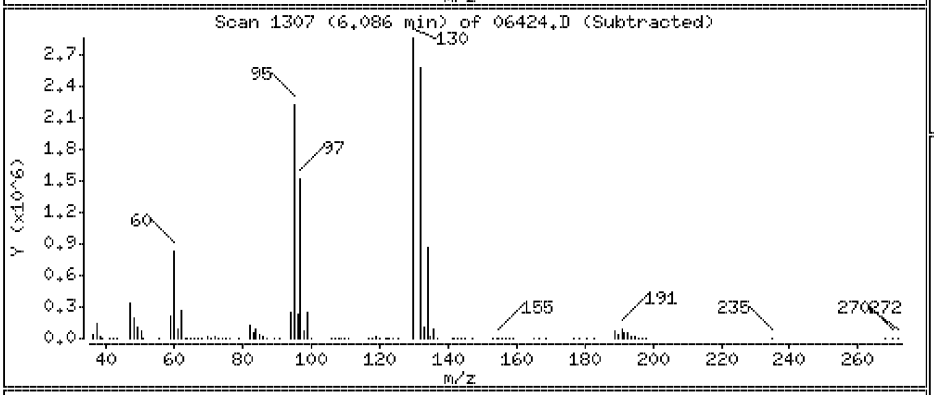
Column phase: J&W DB-5

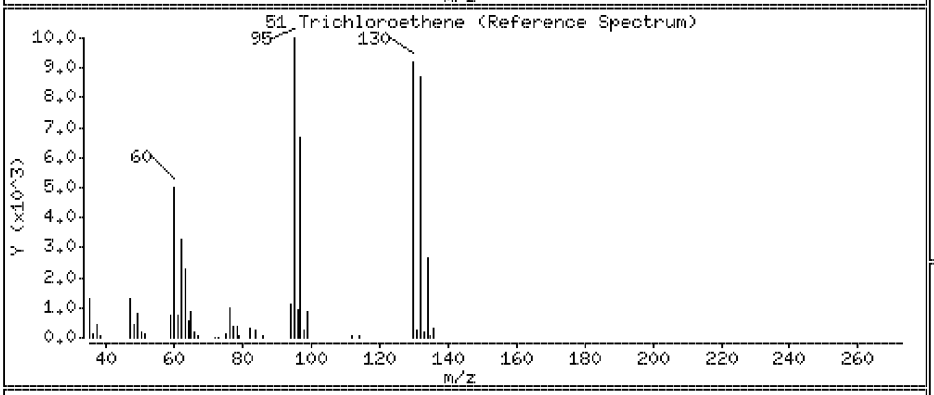
Column diameter: 0.32

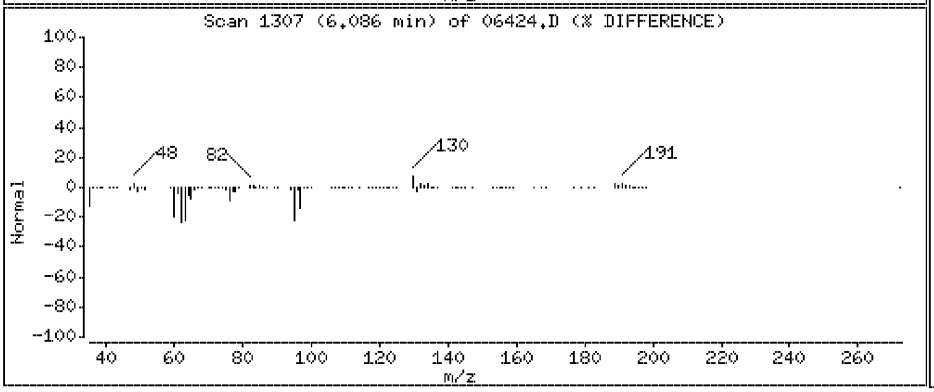
51 Trichloroethene

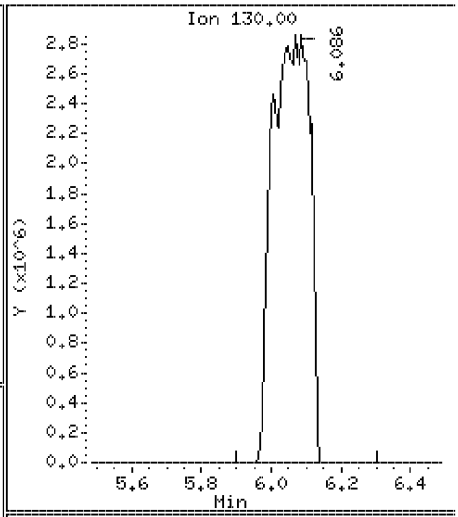
Concentration: 1760 ppbv

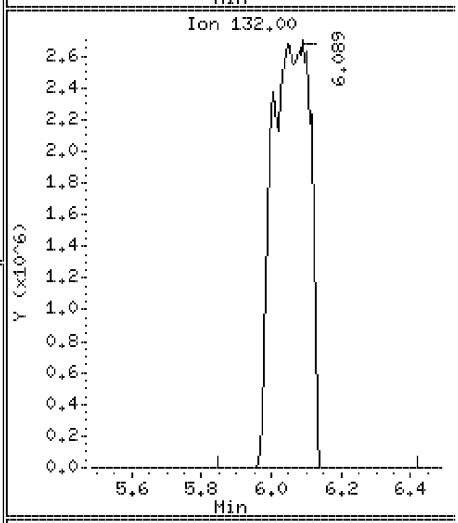


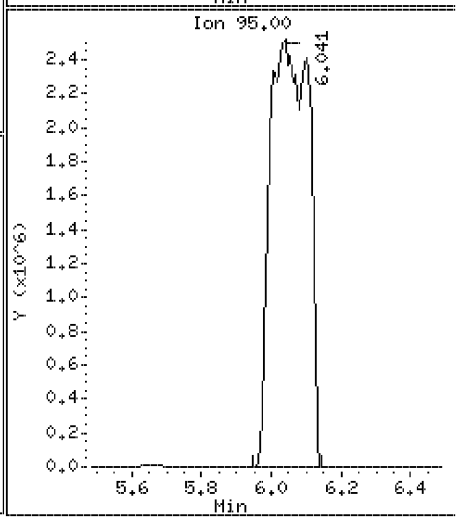












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

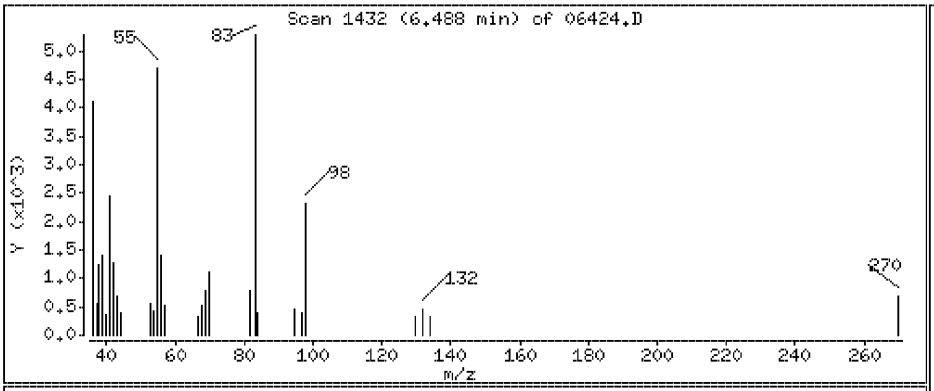
Operator: NCK

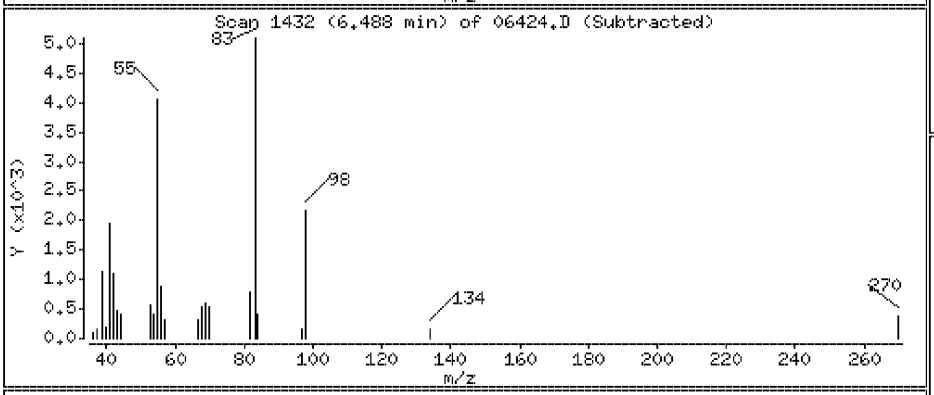
Column phase: J&W DB-5

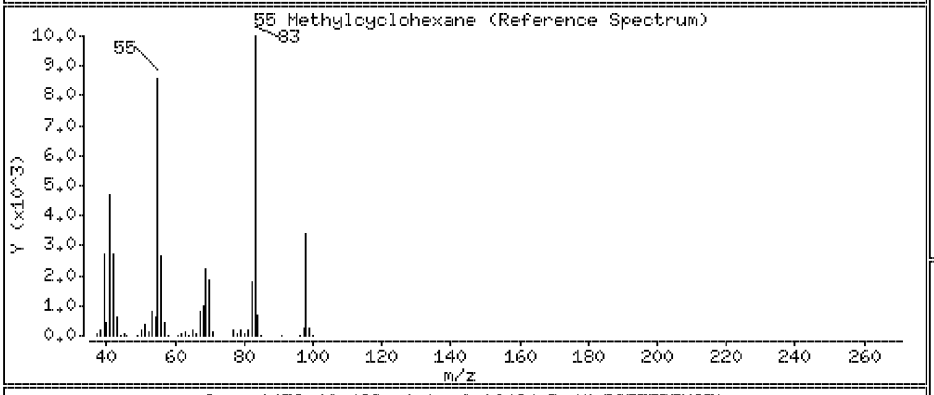
Column diameter: 0.32

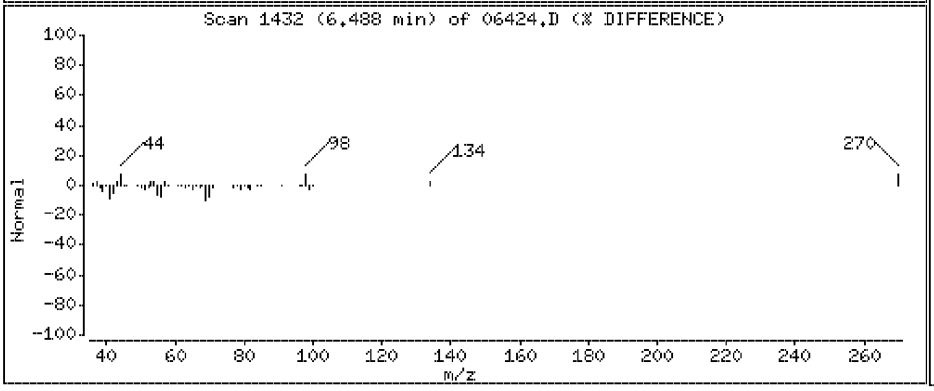
55 Methylcyclohexane

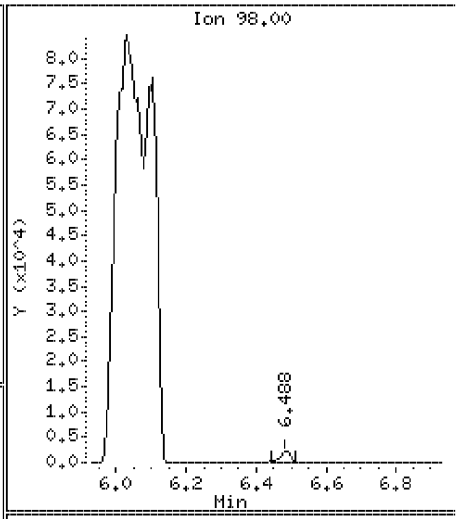
Concentration: 0.722 ppbv

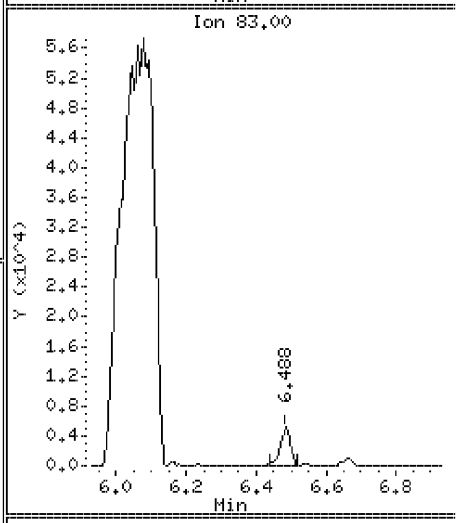


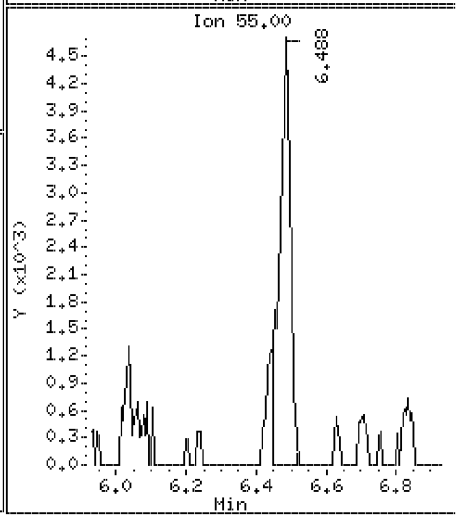












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

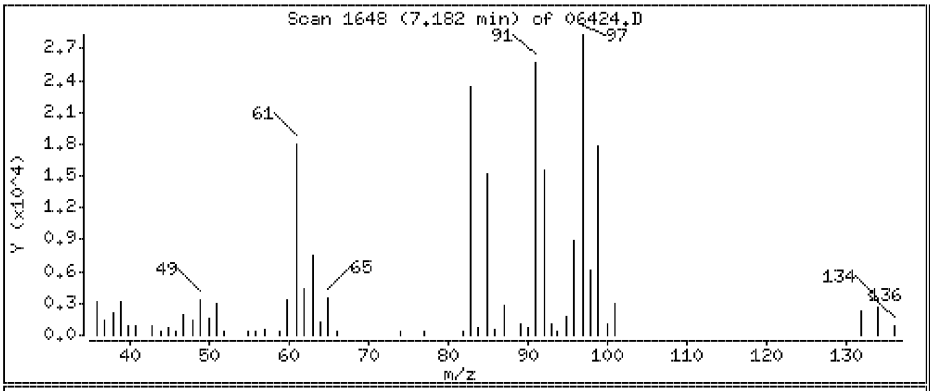
Operator: NCK

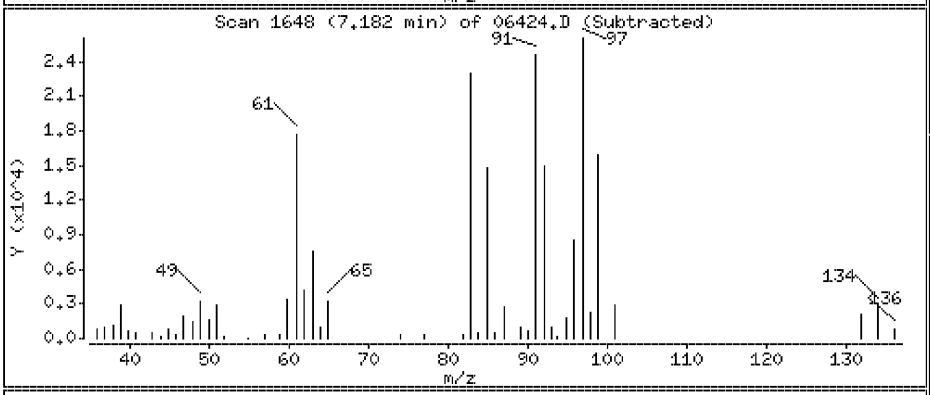
Column phase: J&W DB-5

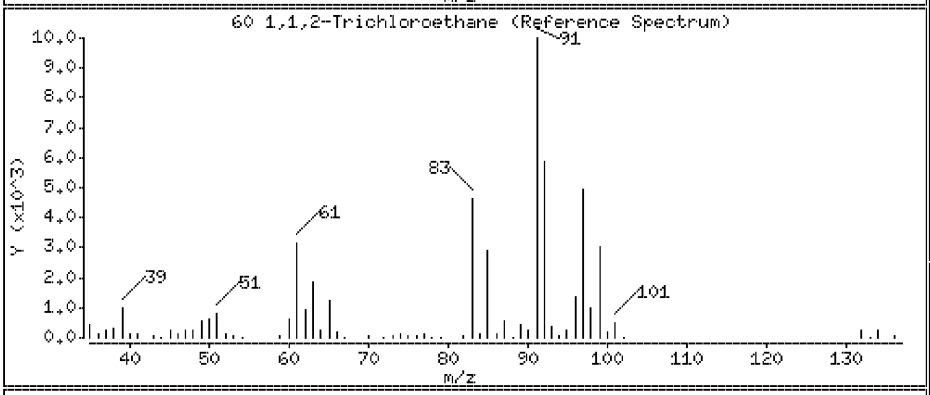
Column diameter: 0.32

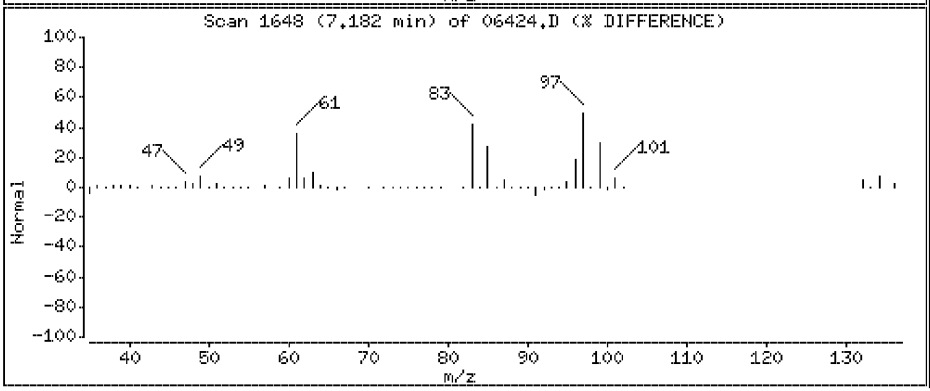
60 1,1,2-Trichloroethane

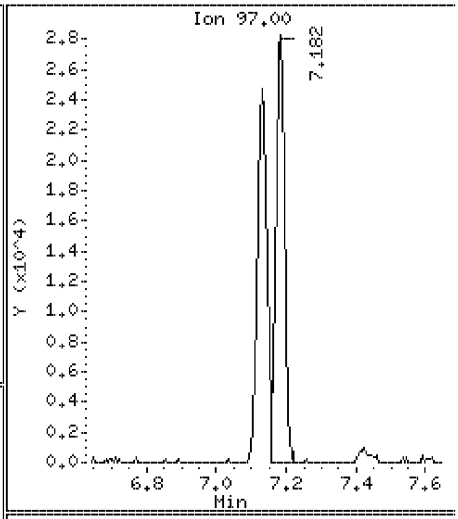
Concentration: 4.76 ppbv

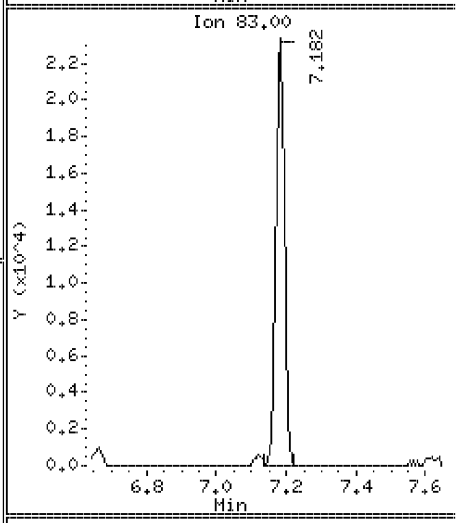


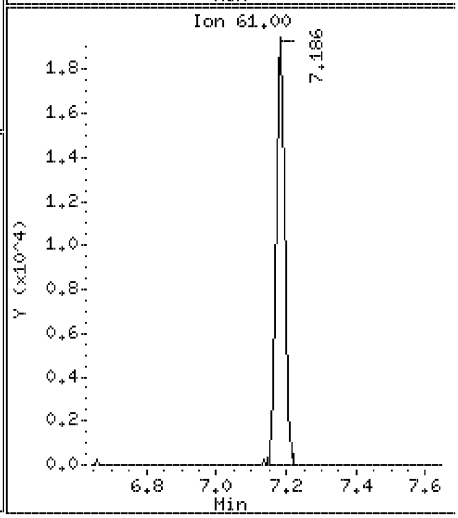












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

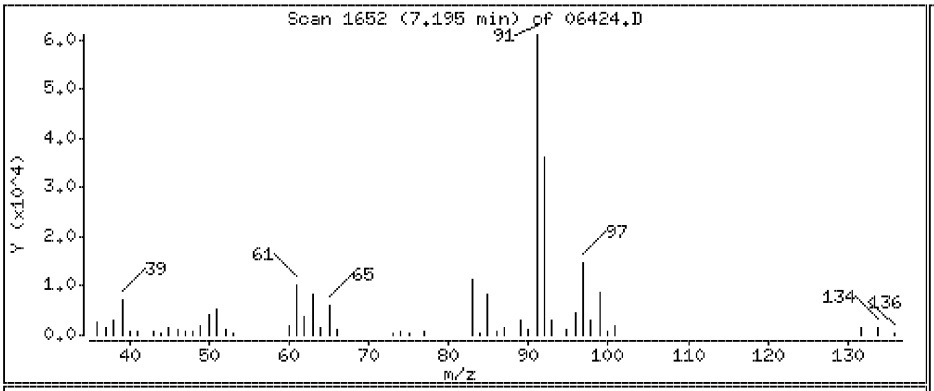
Operator: NCK

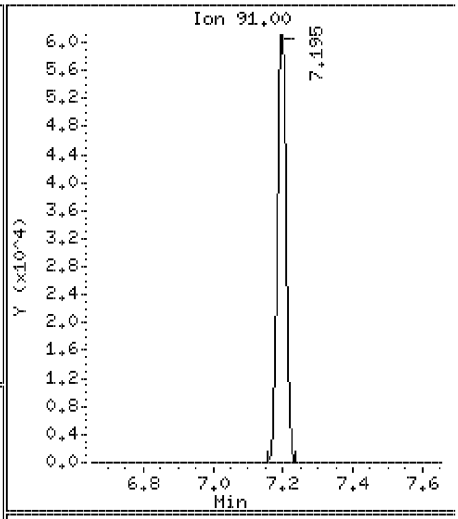
Column phase: J&W DB-5

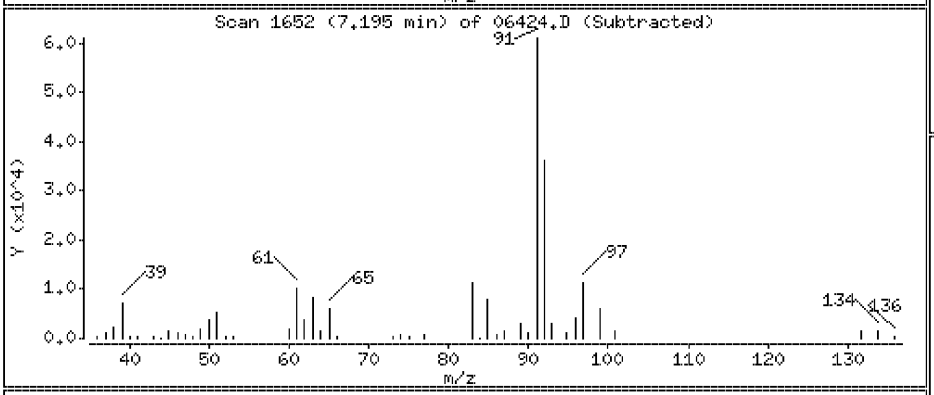
Column diameter: 0.32

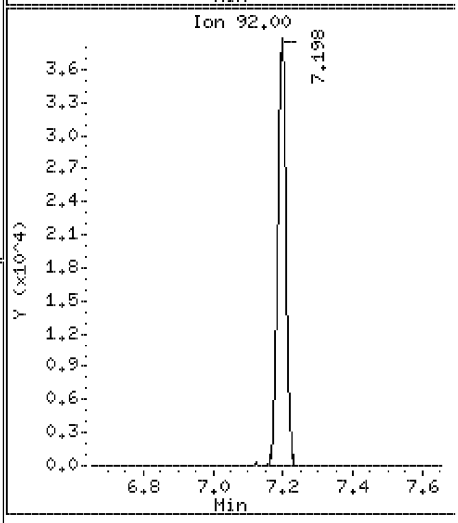
61 Toluene

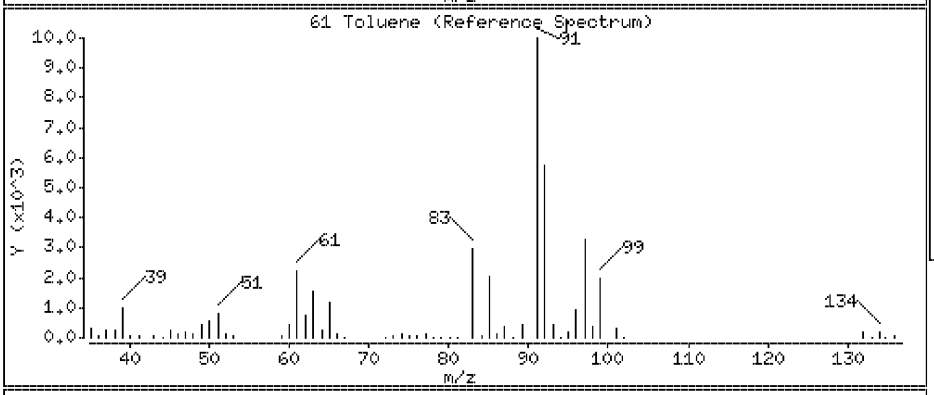
Concentration: 3.48 ppbv

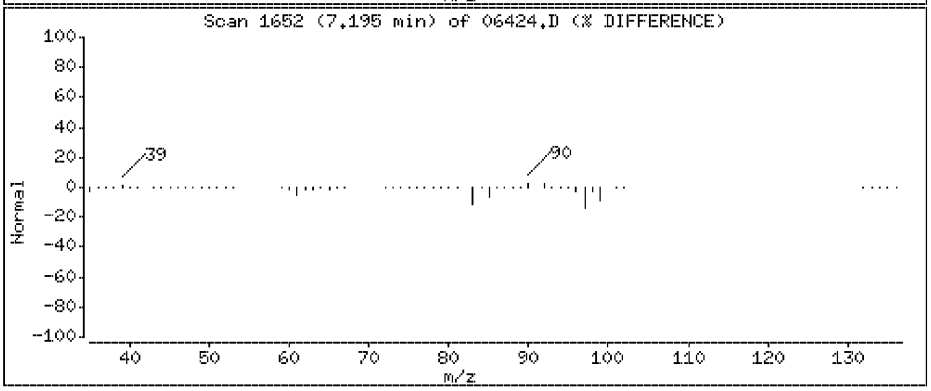












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

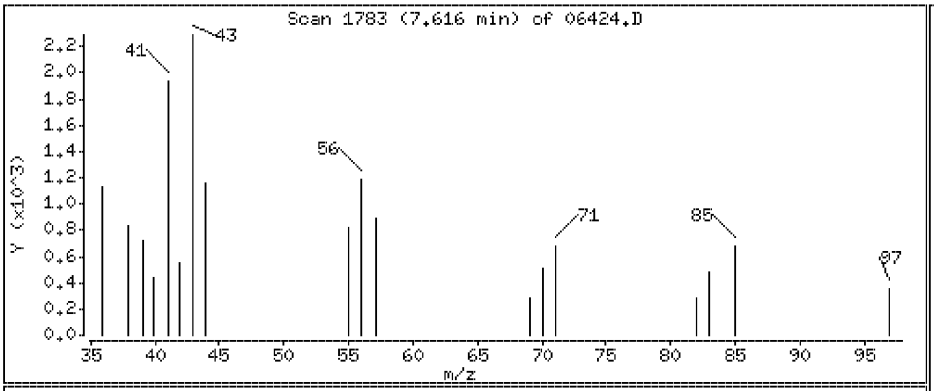
Operator: NCK

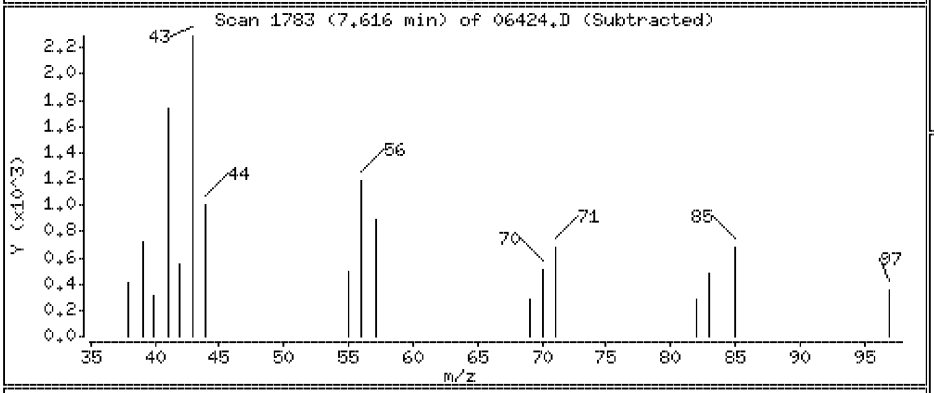
Column phase: J&W DB-5

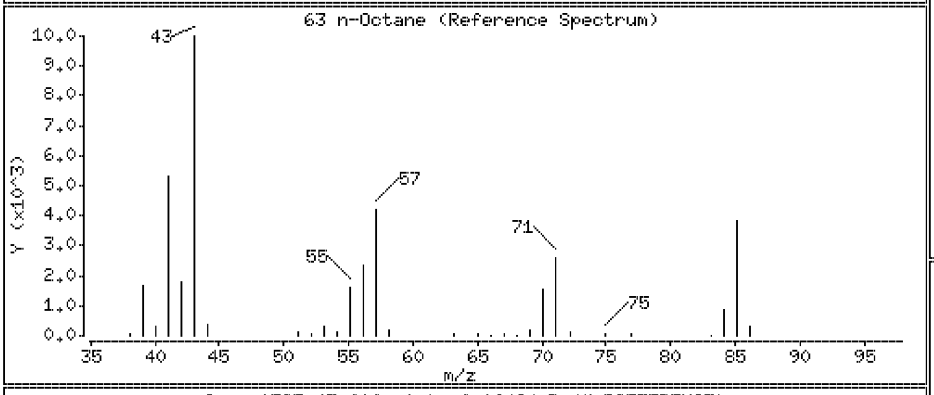
Column diameter: 0.32

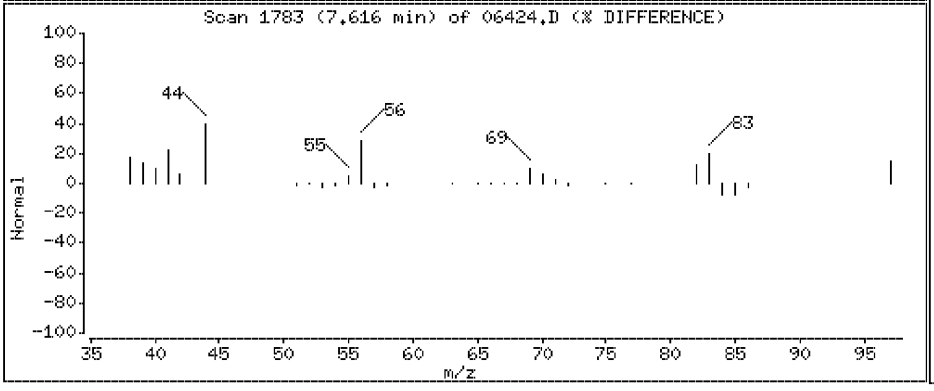
63 n-Octane

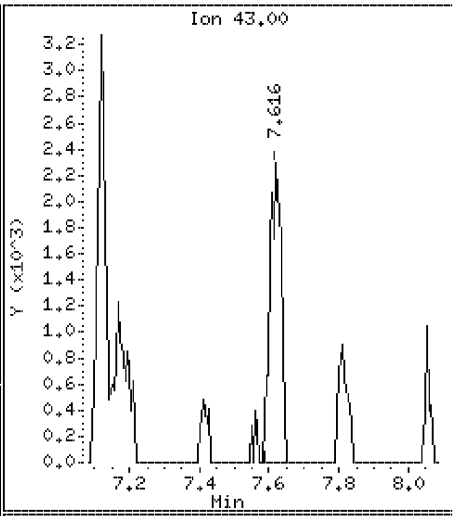
Concentration: 0.315 ppbv

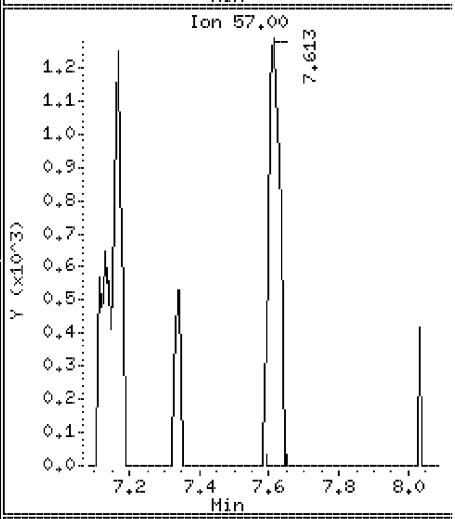


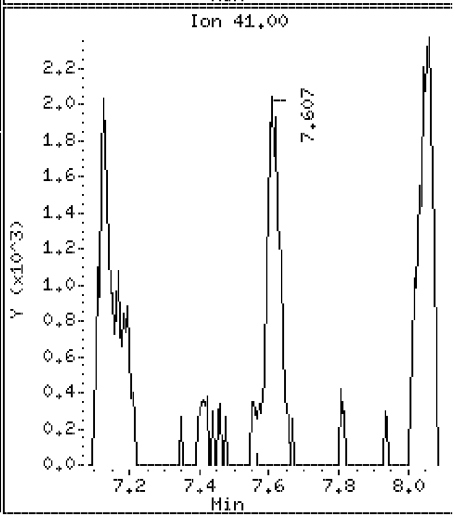












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

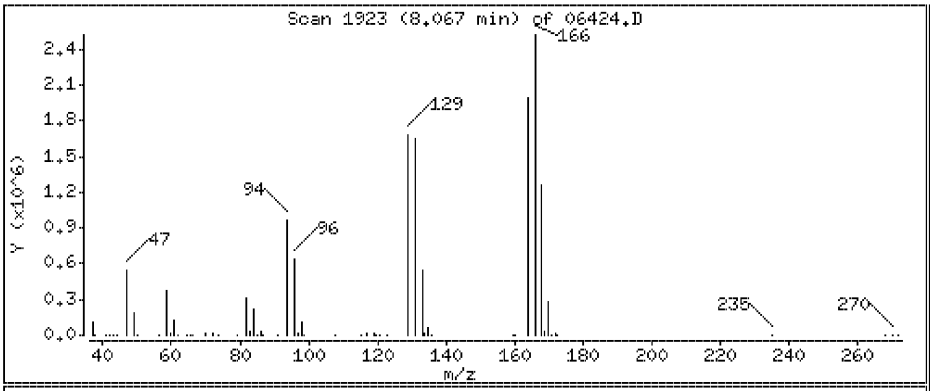
Operator: NCK

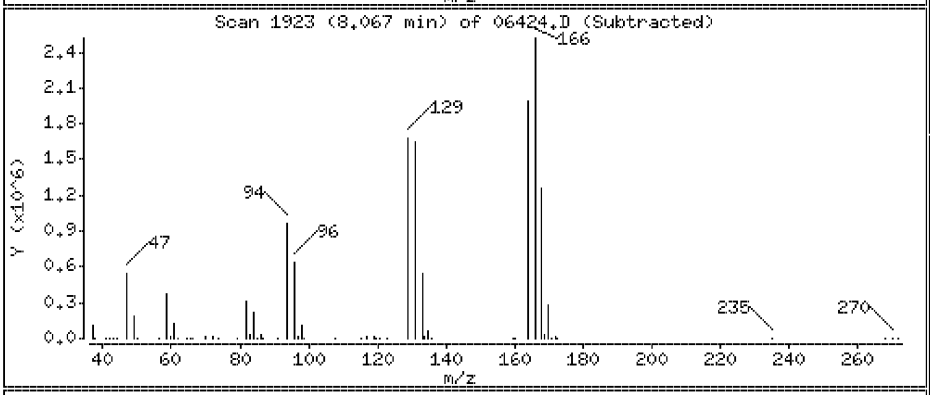
Column phase: J&W DB-5

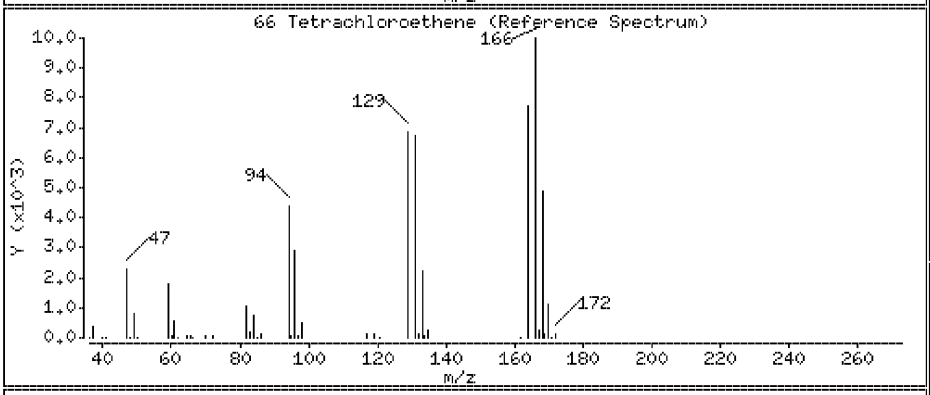
Column diameter: 0.32

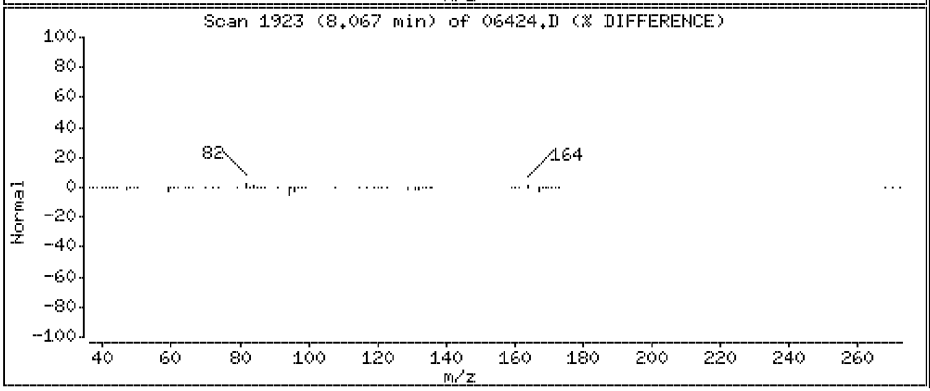
66 Tetrachloroethene

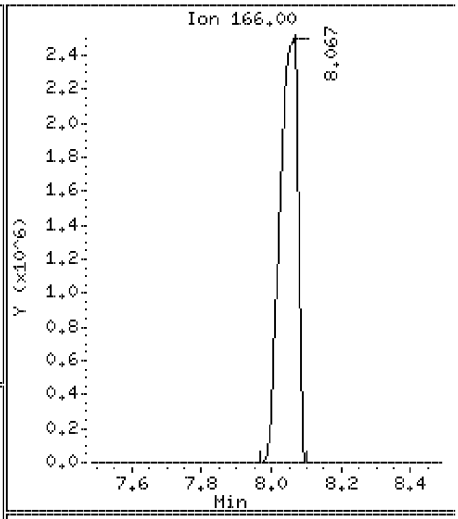
Concentration: 566 ppbv

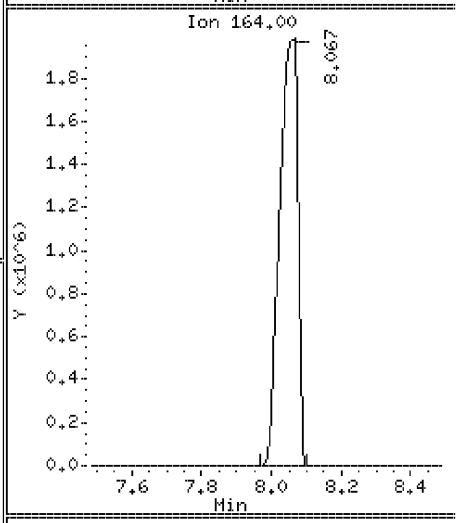


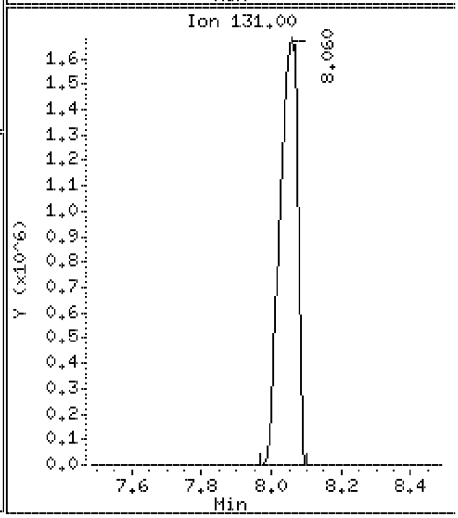












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

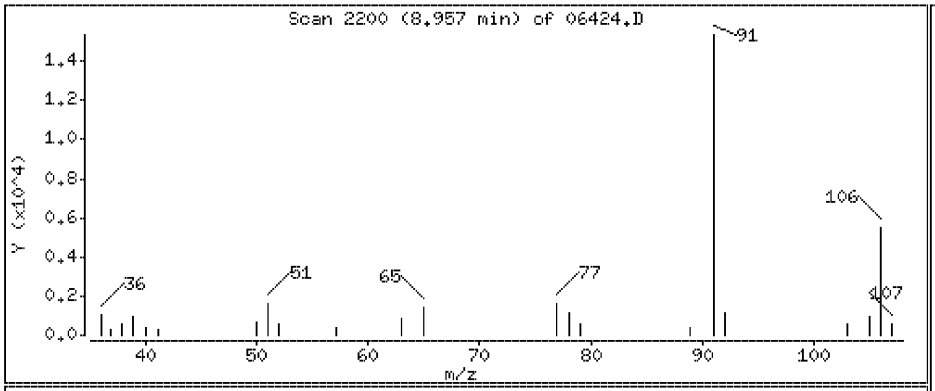
Operator: NCK

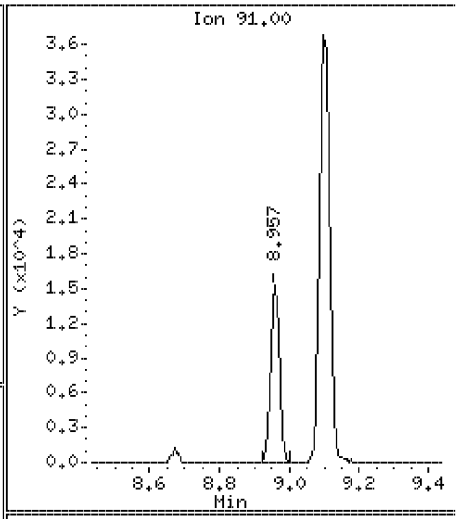
Column phase: J&W DB-5

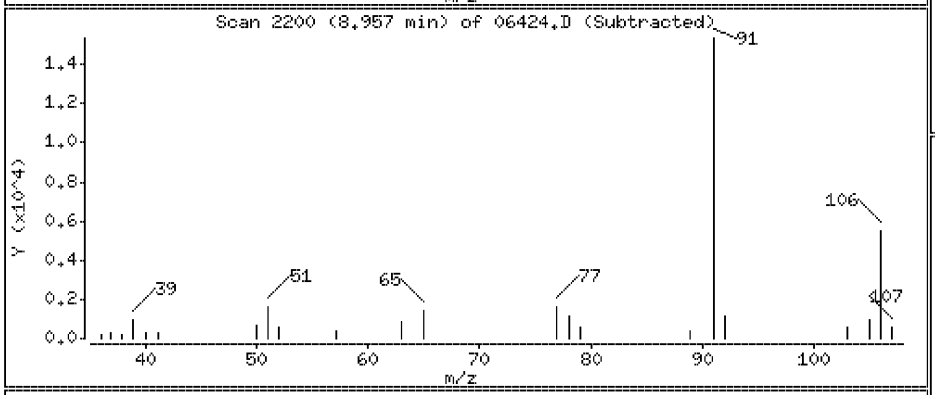
Column diameter: 0.32

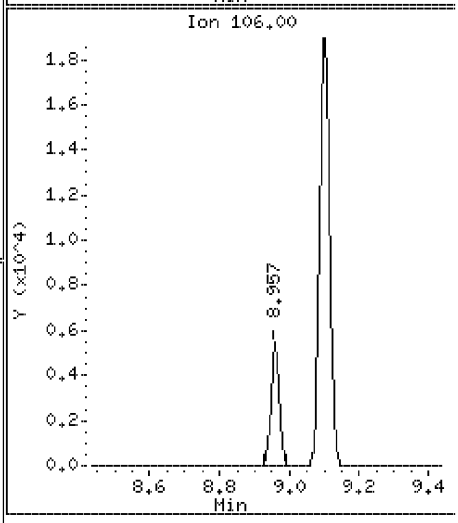
69 Ethyl Benzene

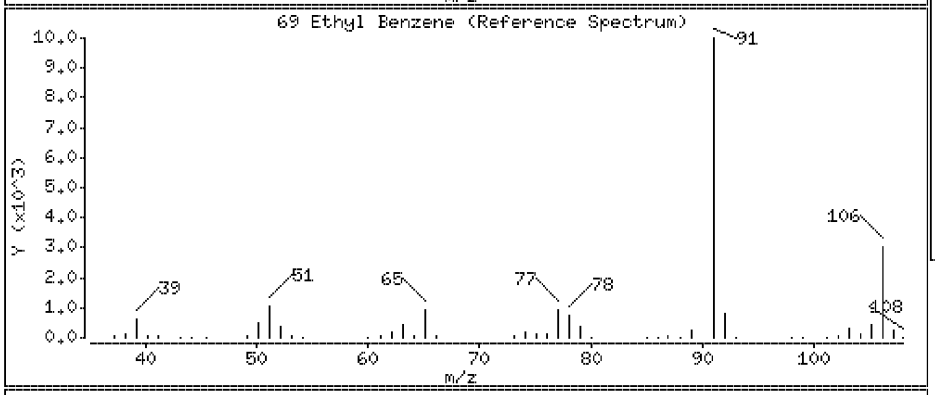
Concentration: 0.740 ppbv

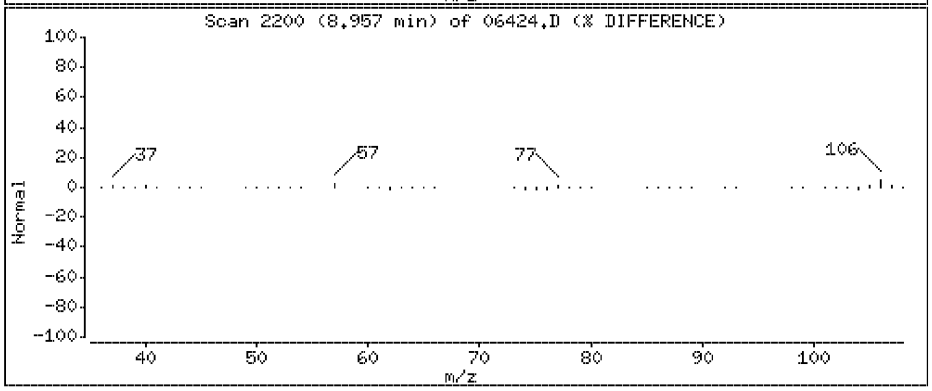












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

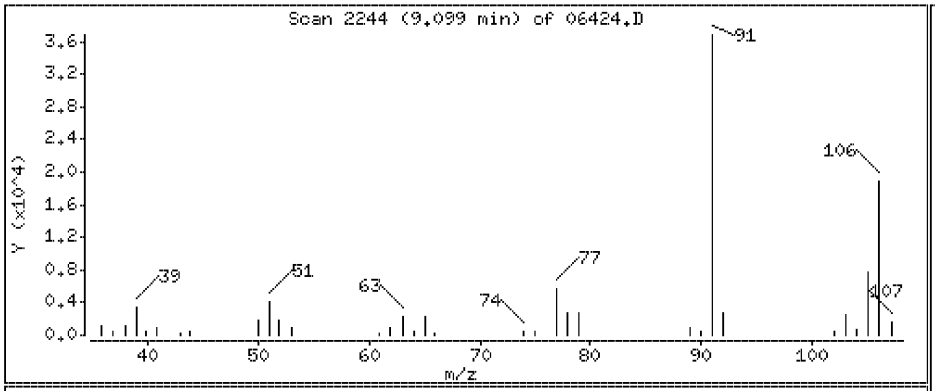
Operator: NCK

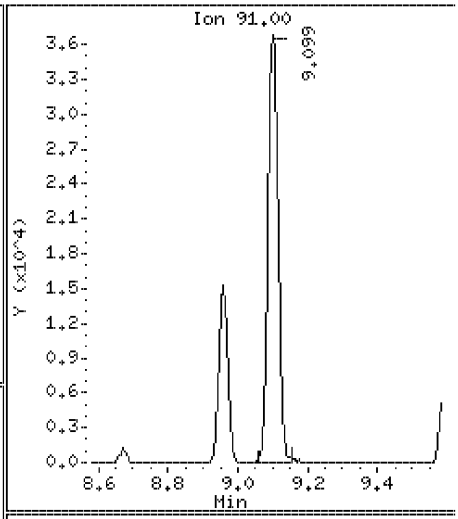
Column phase: J&W DB-5

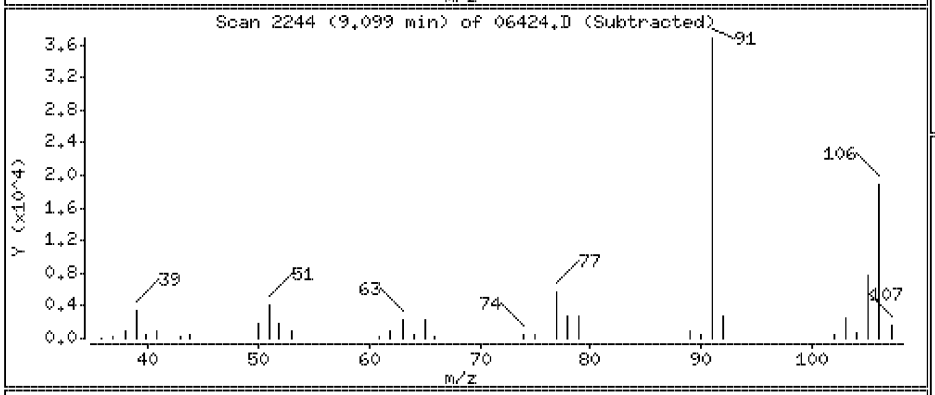
Column diameter: 0.32

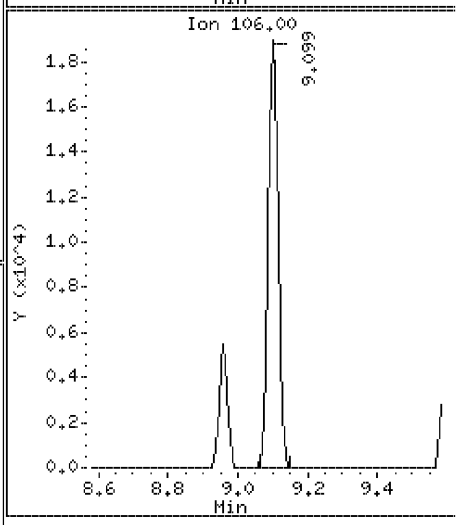
70 m&p-Xylene

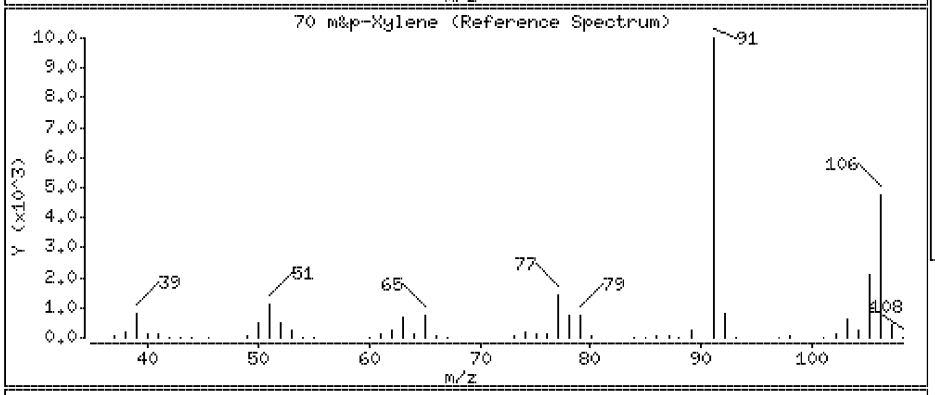
Concentration: 2.77 ppbv

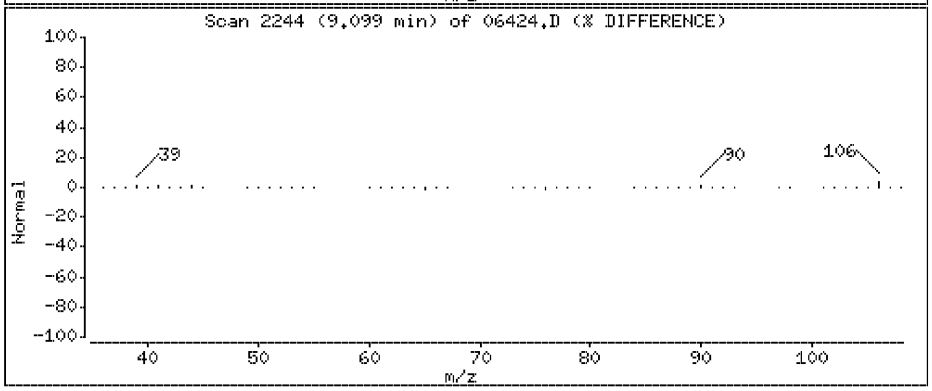












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

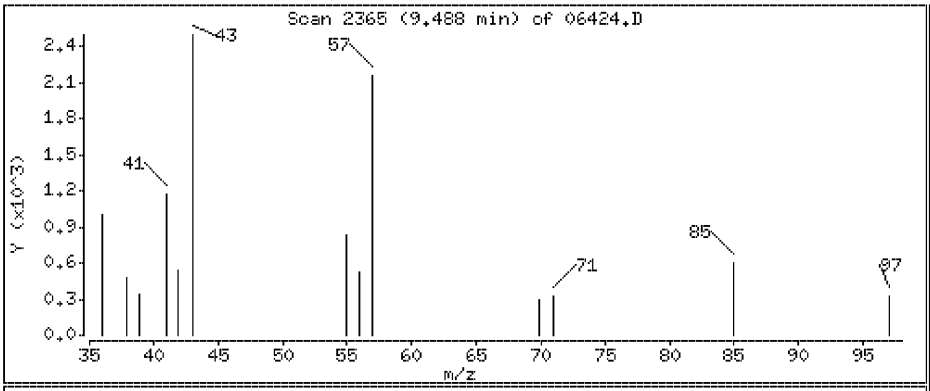
Operator: NCK

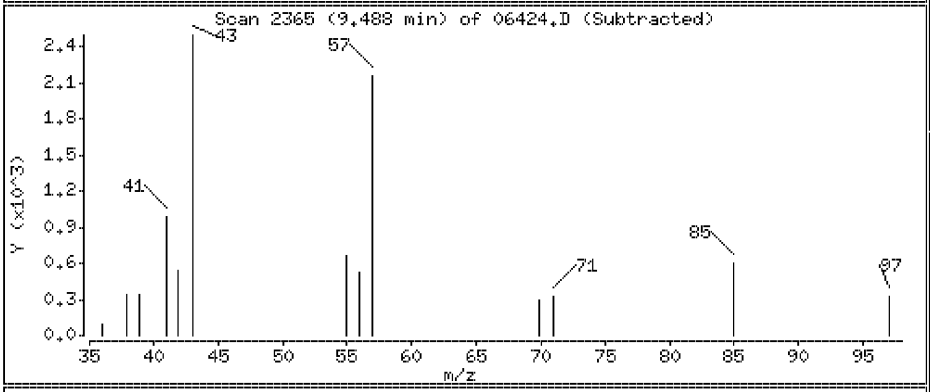
Column phase: J&W DB-5

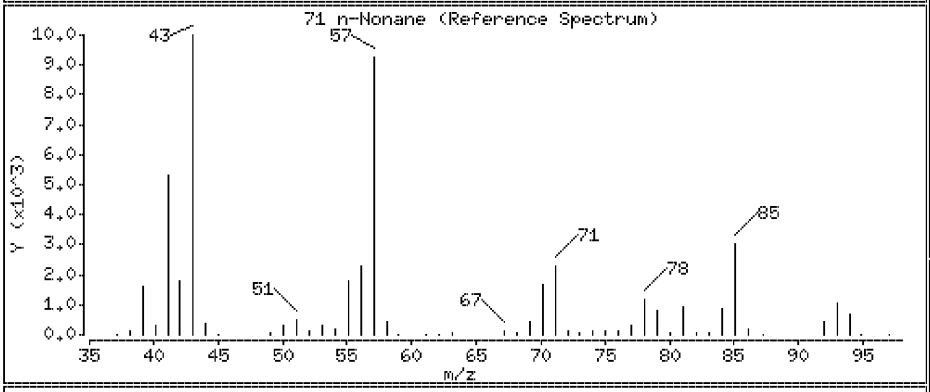
Column diameter: 0.32

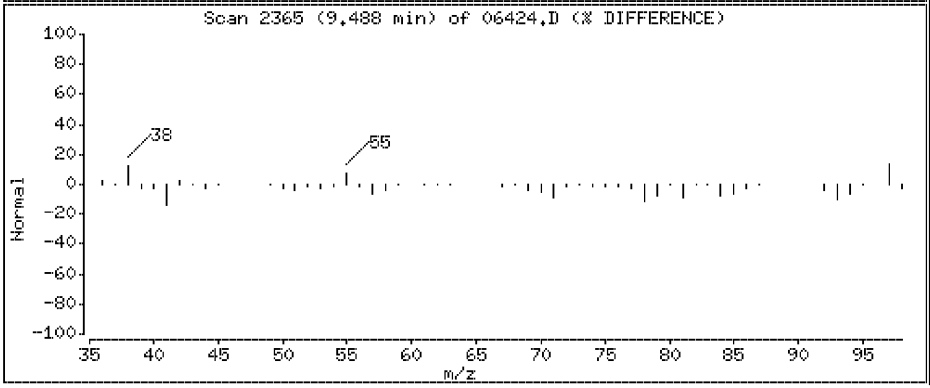
71 n-Nonane

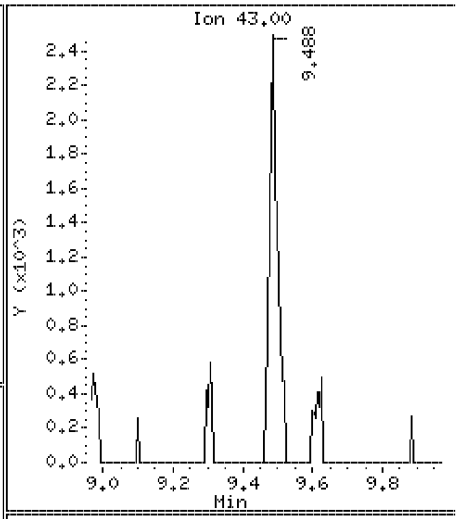
Concentration: 0.285 ppbv

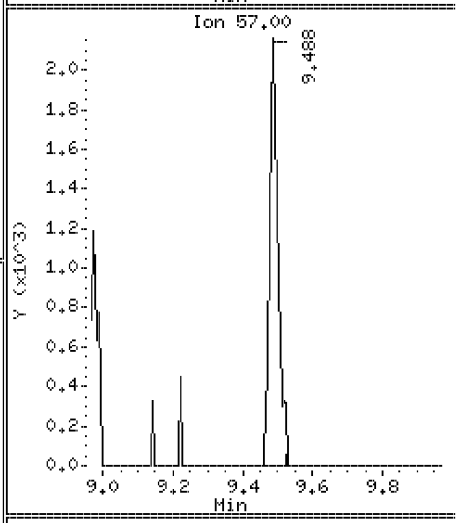


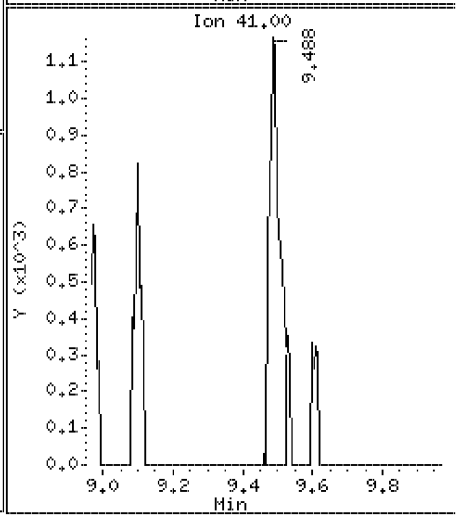












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

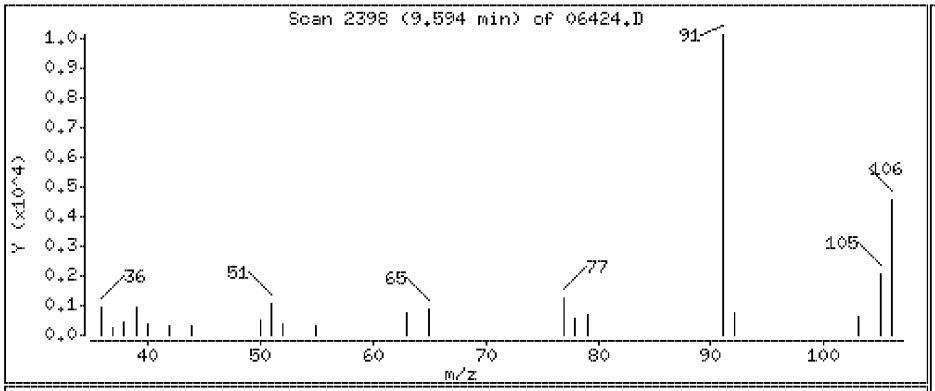
Operator: NCK

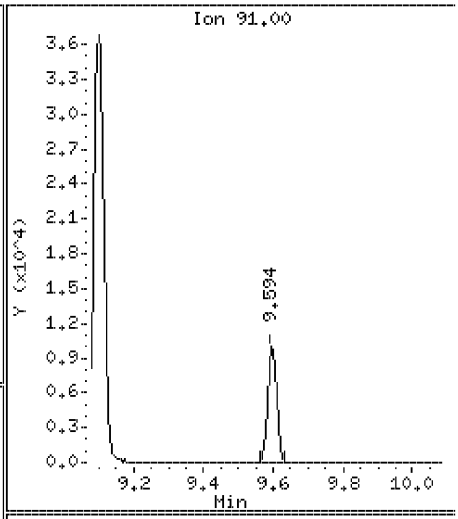
Column phase: J&W DB-5

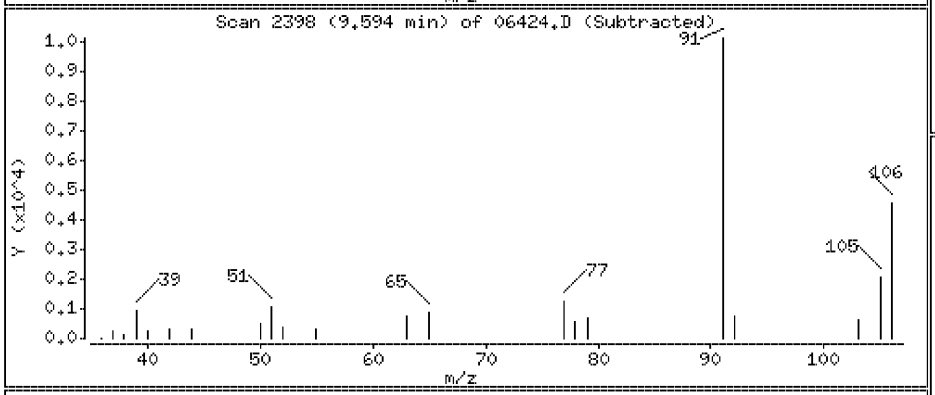
Column diameter: 0.32

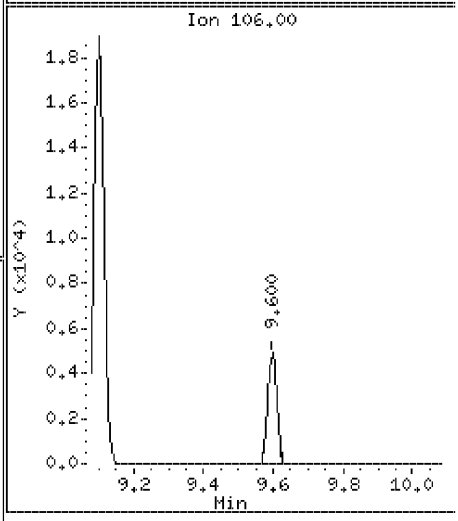
74 o-Xylene

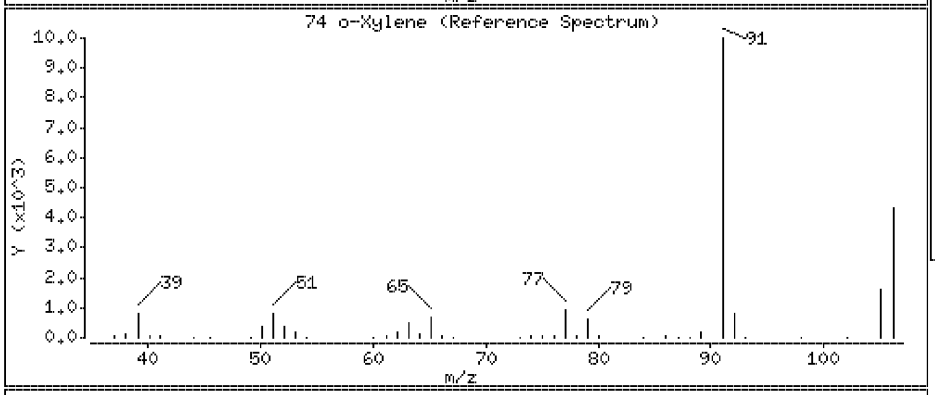
Concentration: 0.643 ppbv

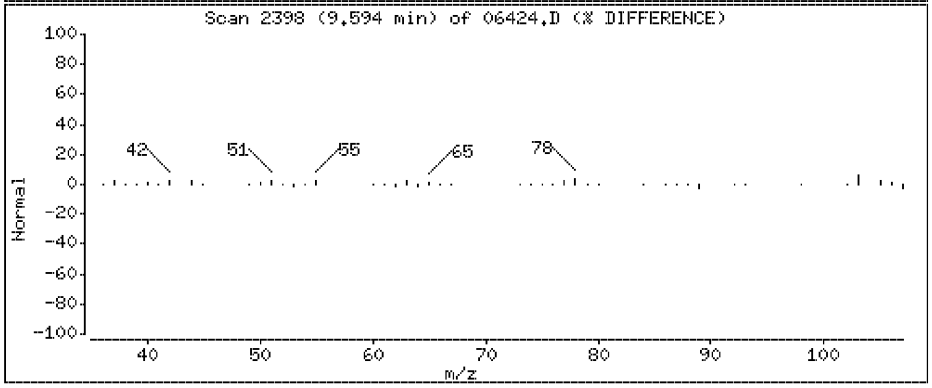












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

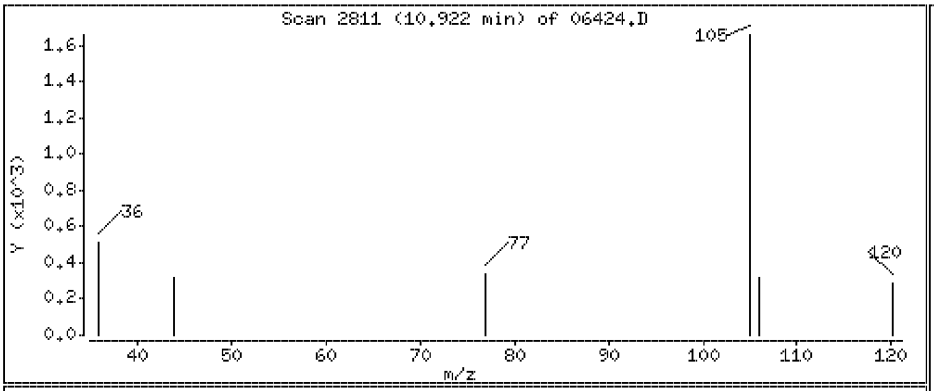
Operator: NCK

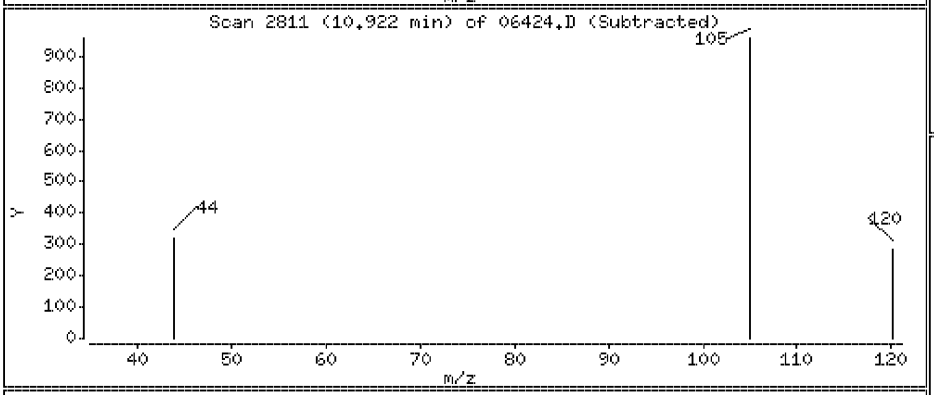
Column phase: J&W DB-5

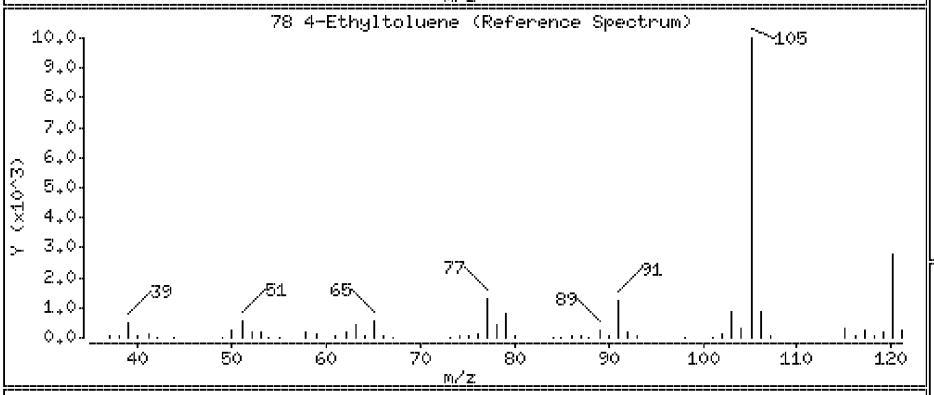
Column diameter: 0.32

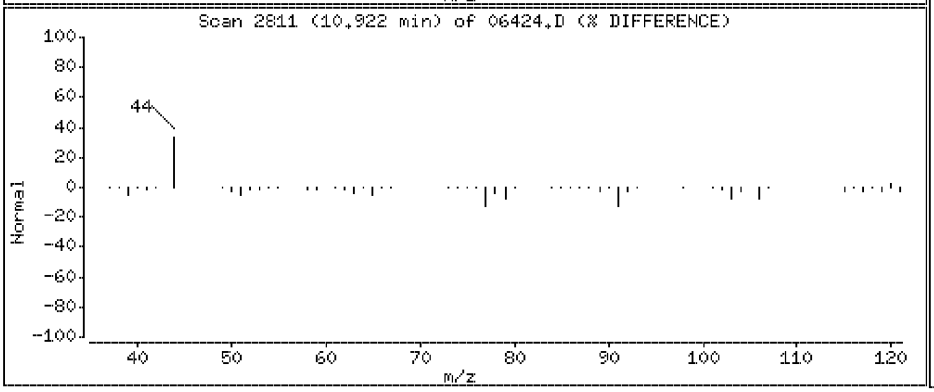
78 4-Ethyltoluene

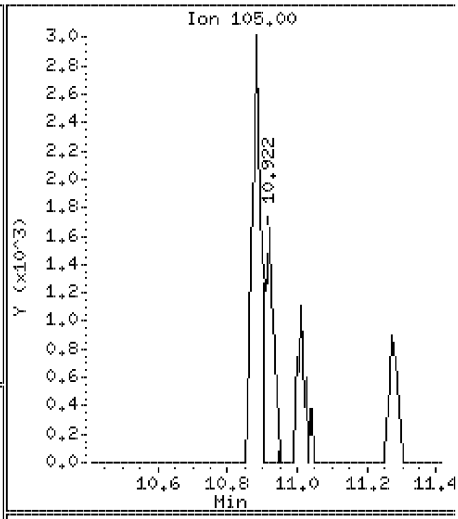
Concentration: 0.248 ppbv

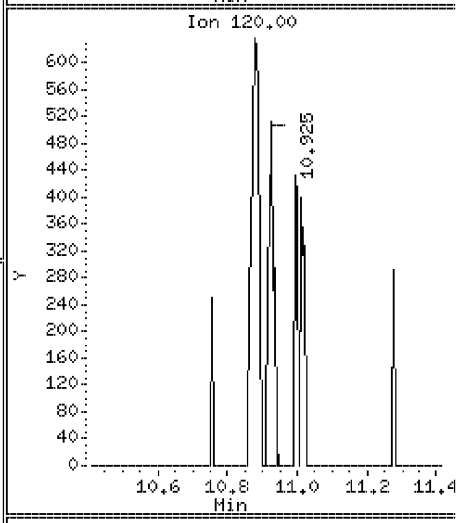


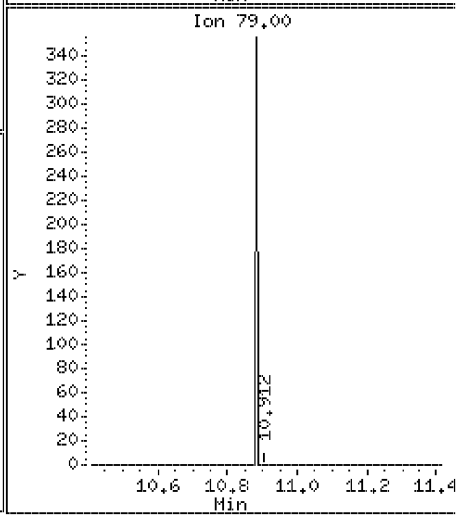












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

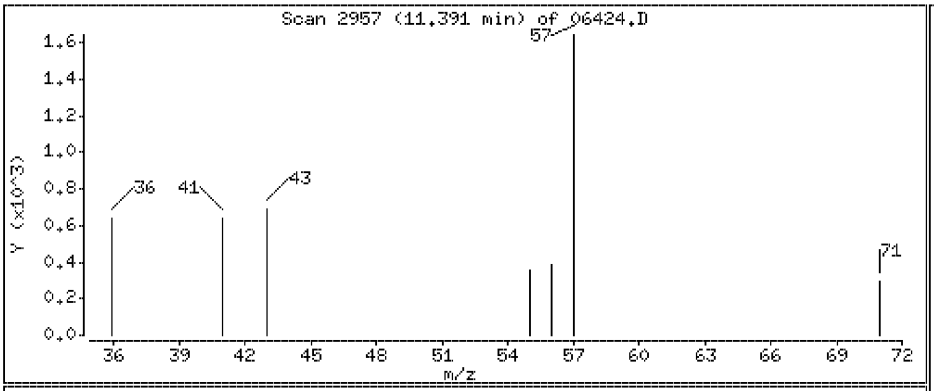
Operator: NCK

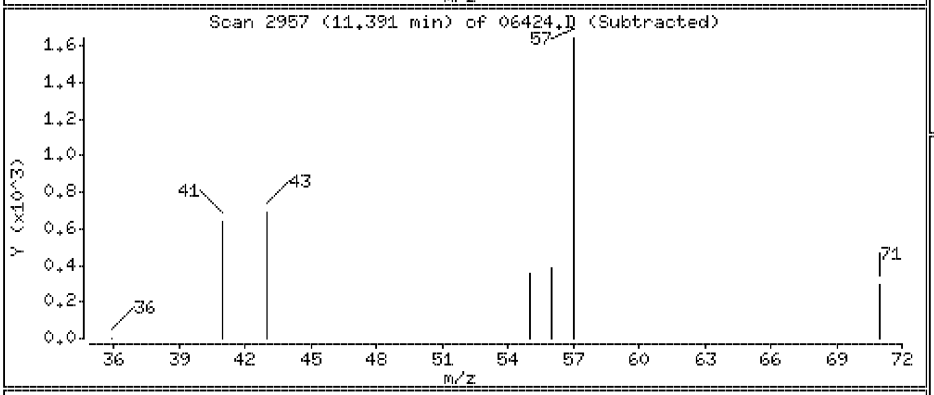
Column phase: J&W DB-5

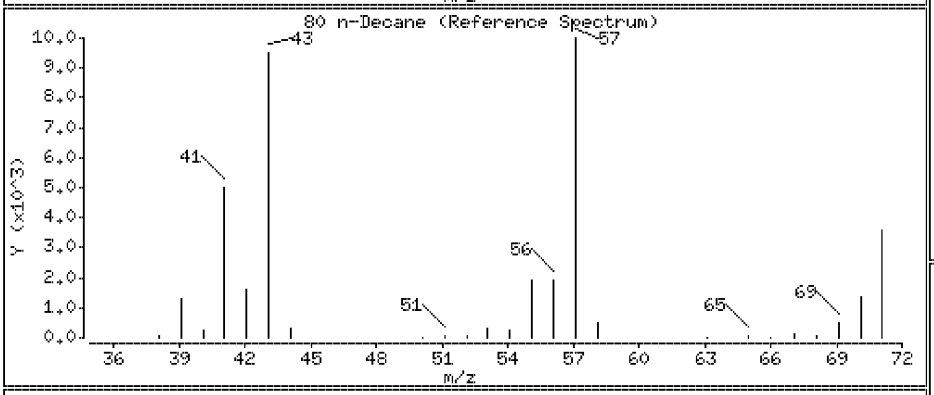
Column diameter: 0.32

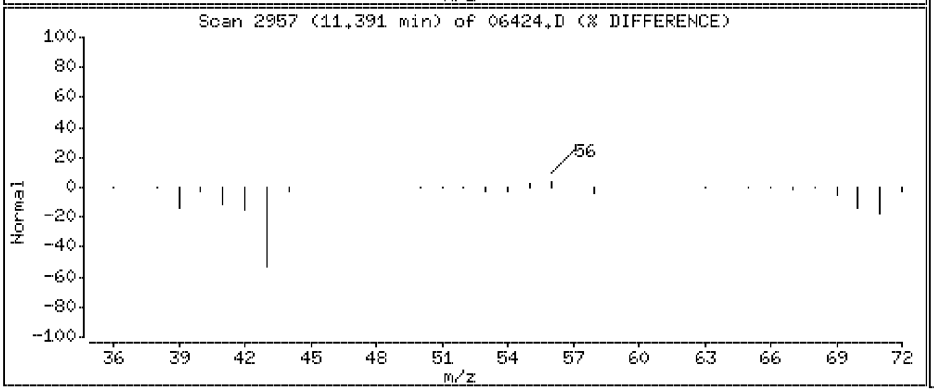
80 n-Decane

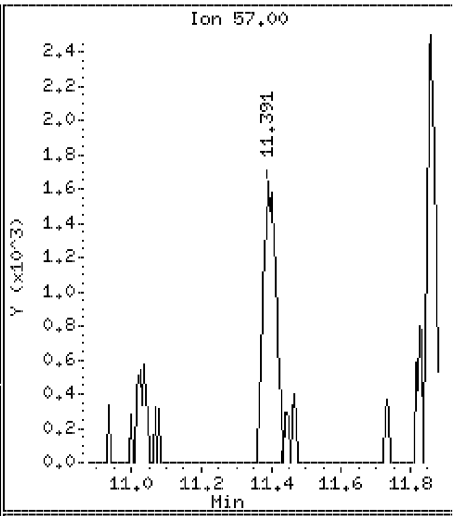
Concentration: 0.641 ppbv

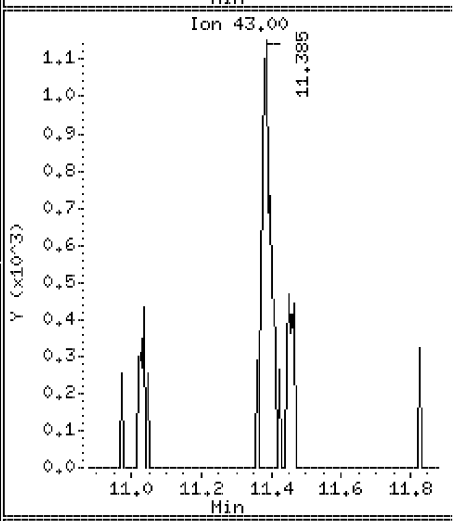


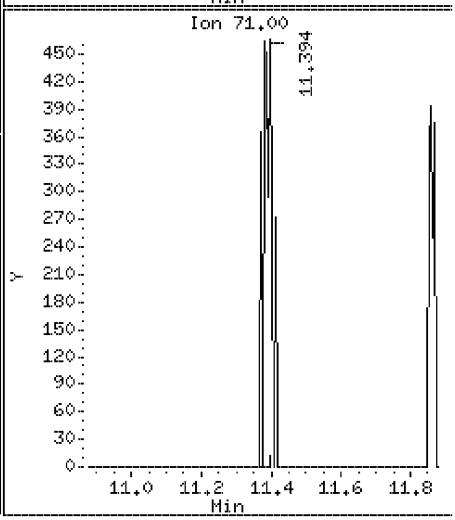












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06424.D

Date : 05-MAR-2017 21:02

Client ID:

Instrument: 10airB.i

Sample Info:

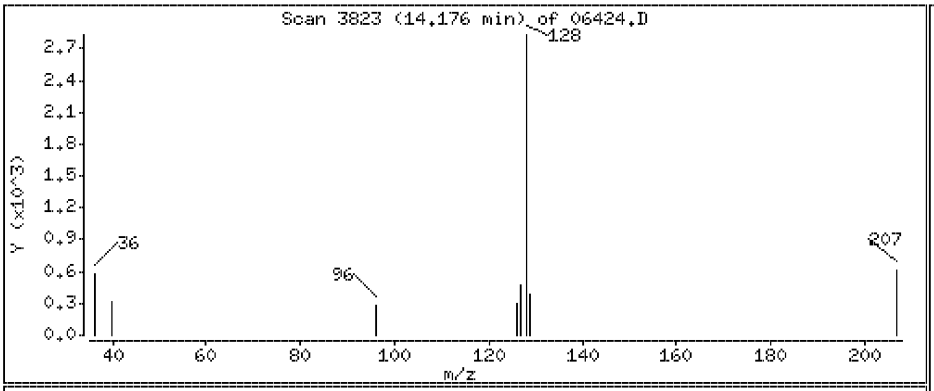
Operator: NCK

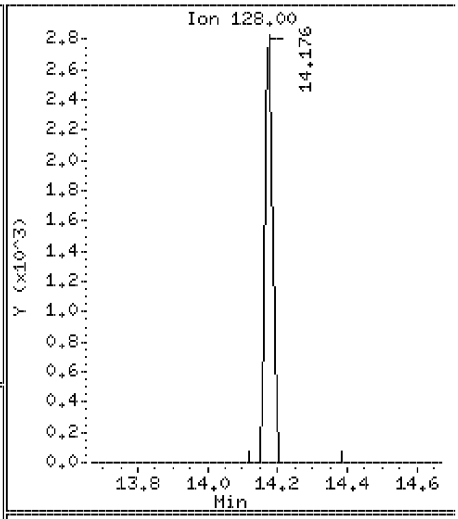
Column phase: J&W DB-5

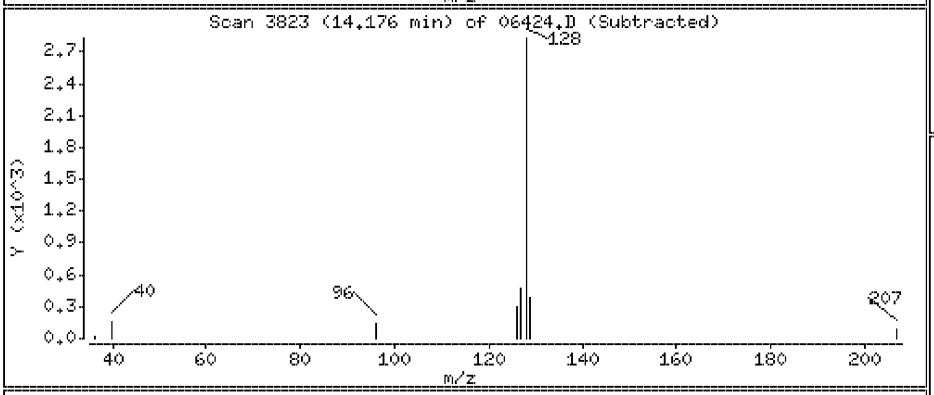
Column diameter: 0.32

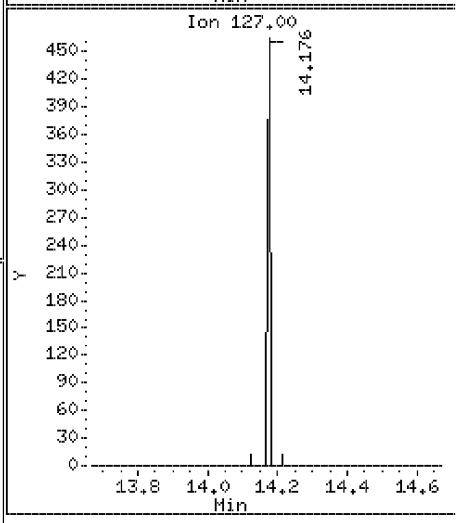
94 Naphthalene

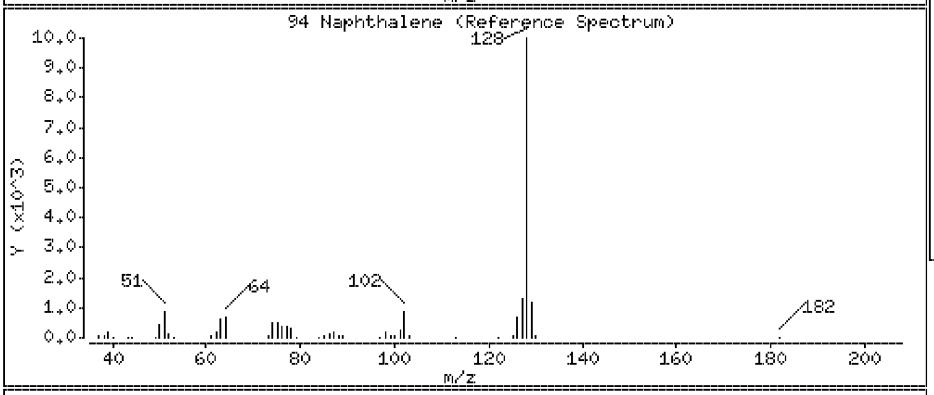
Concentration: 0.830 ppbv

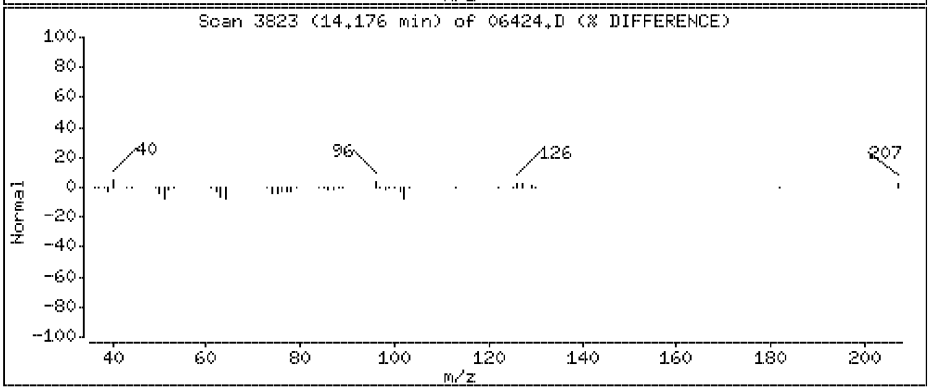






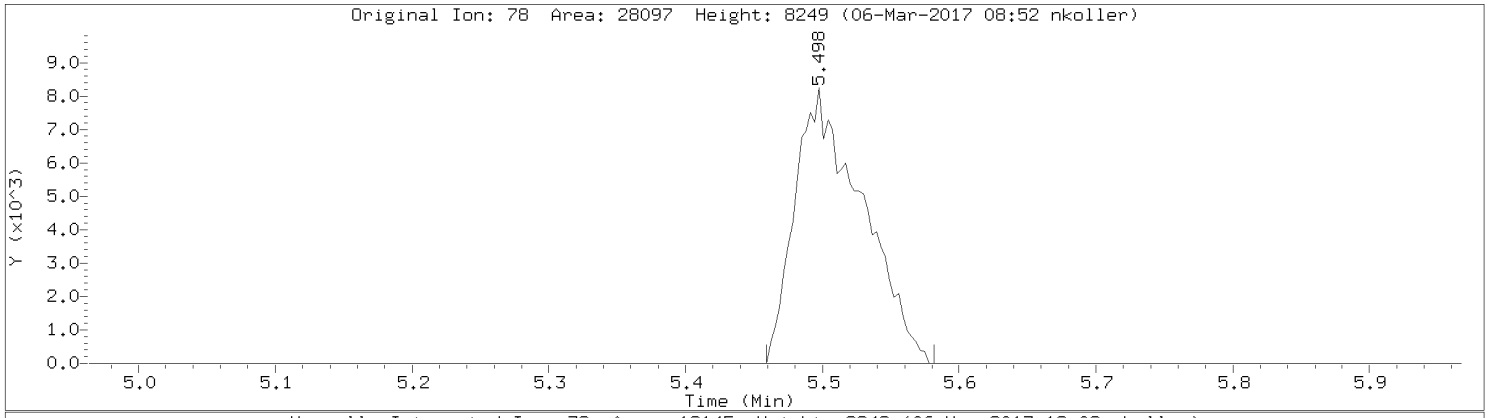


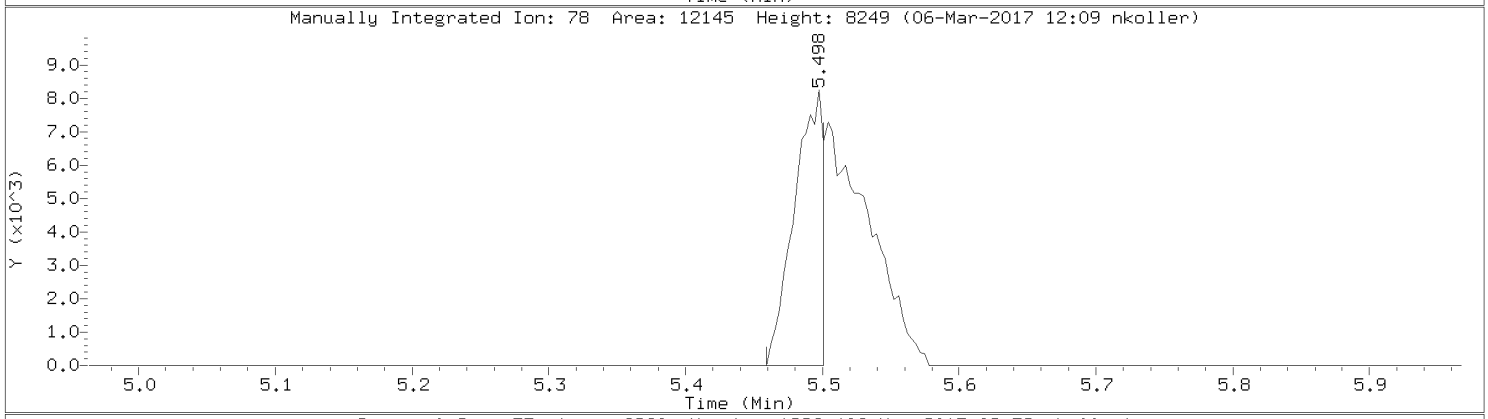


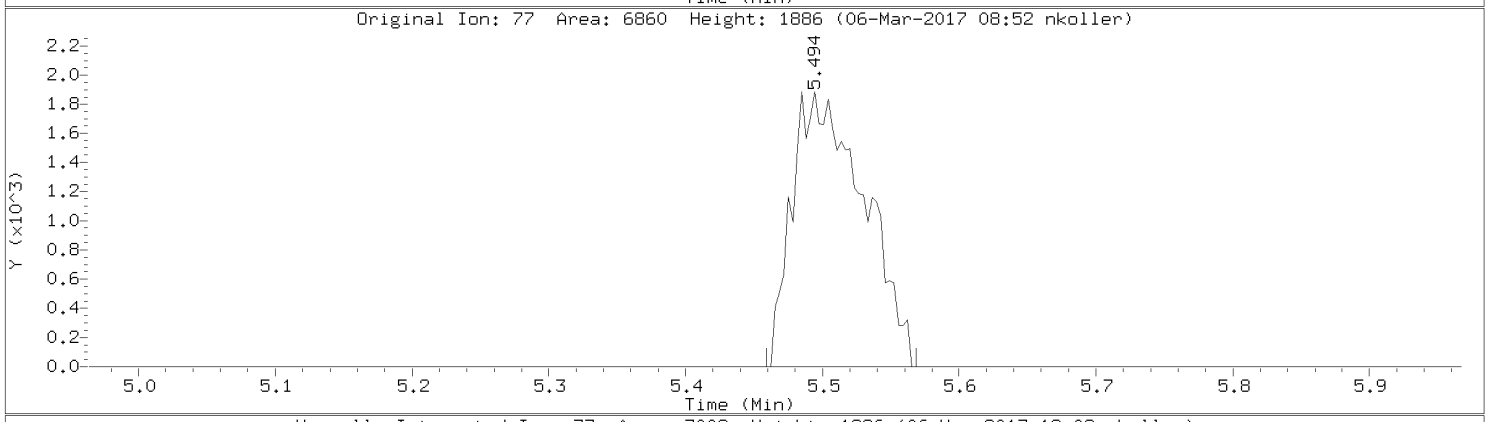


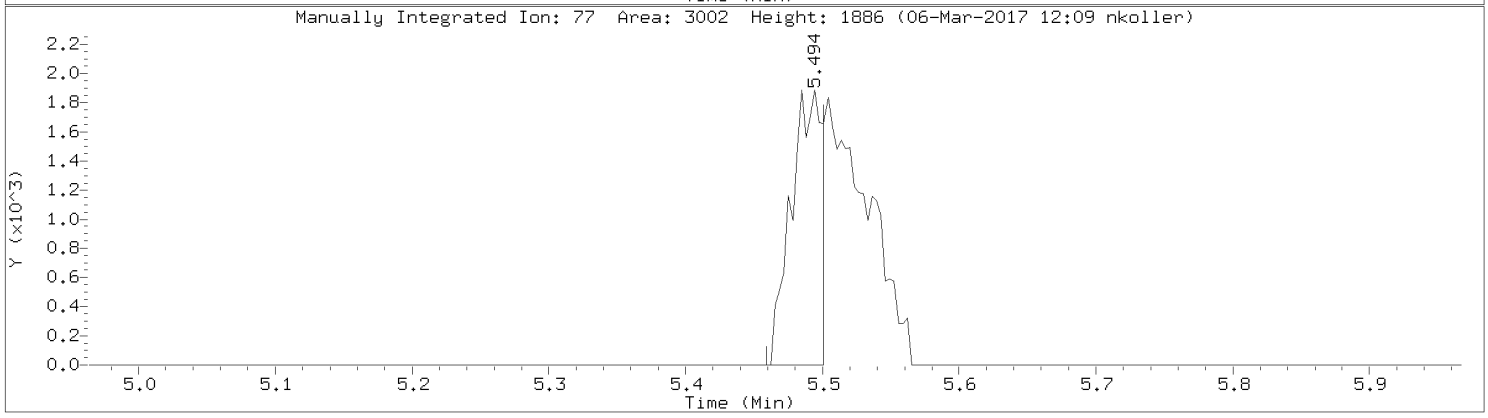
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06424.D
Injection Date: 05-MAR-2017 21:02
Instrument: 10airB.i
Lab Sample ID: 10380193005

Compound: Benzene
CAS Number: 71-43-2

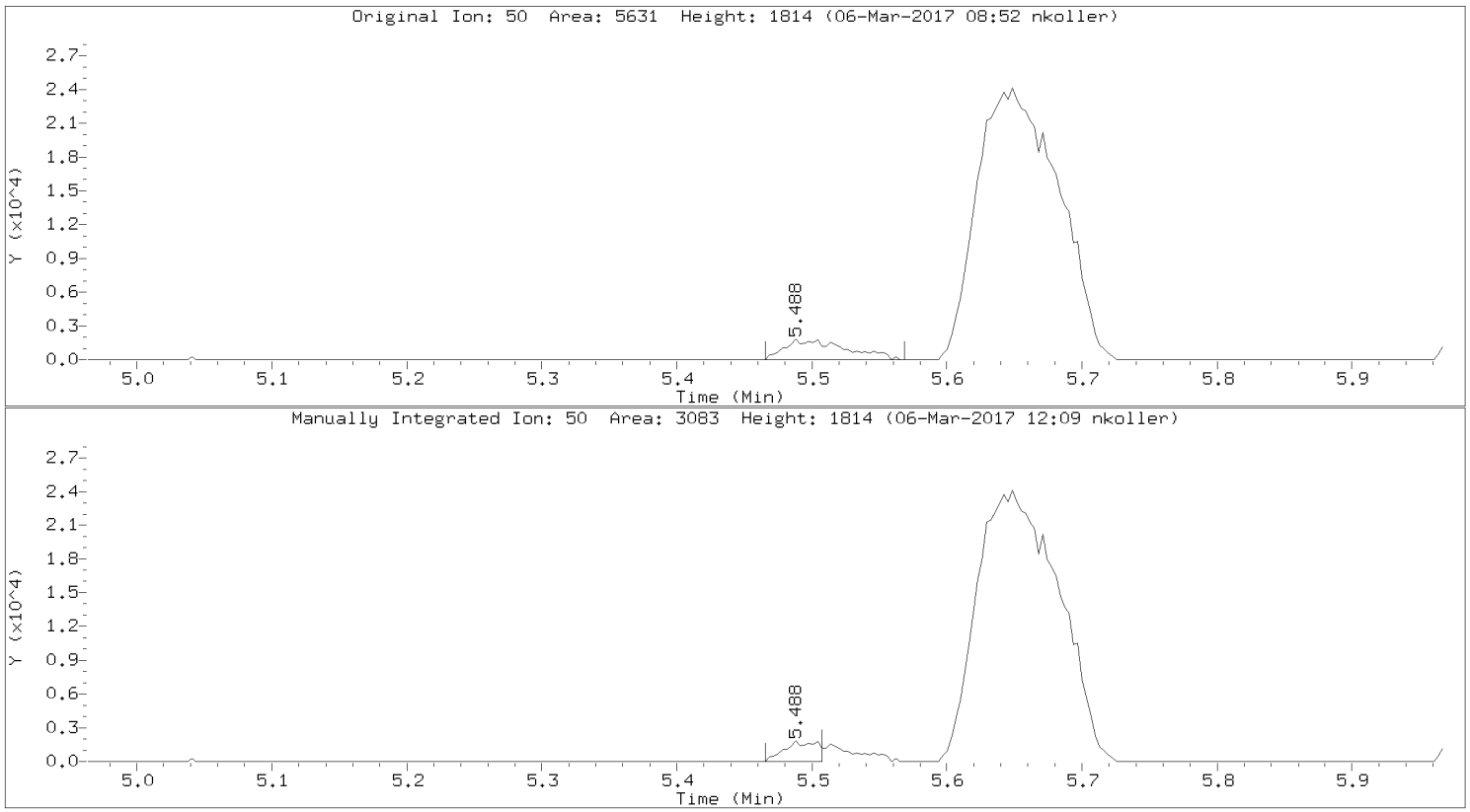






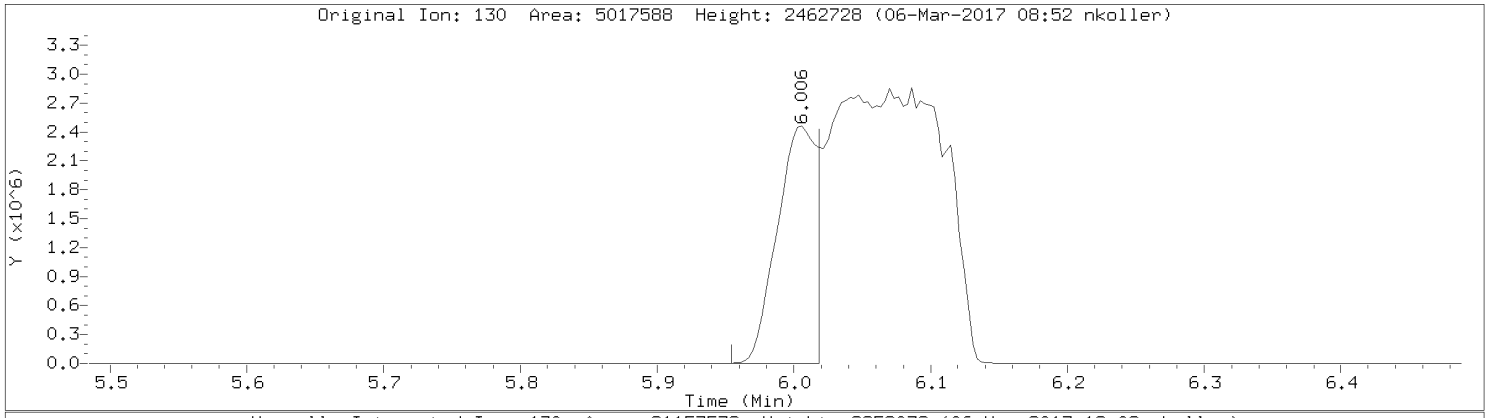


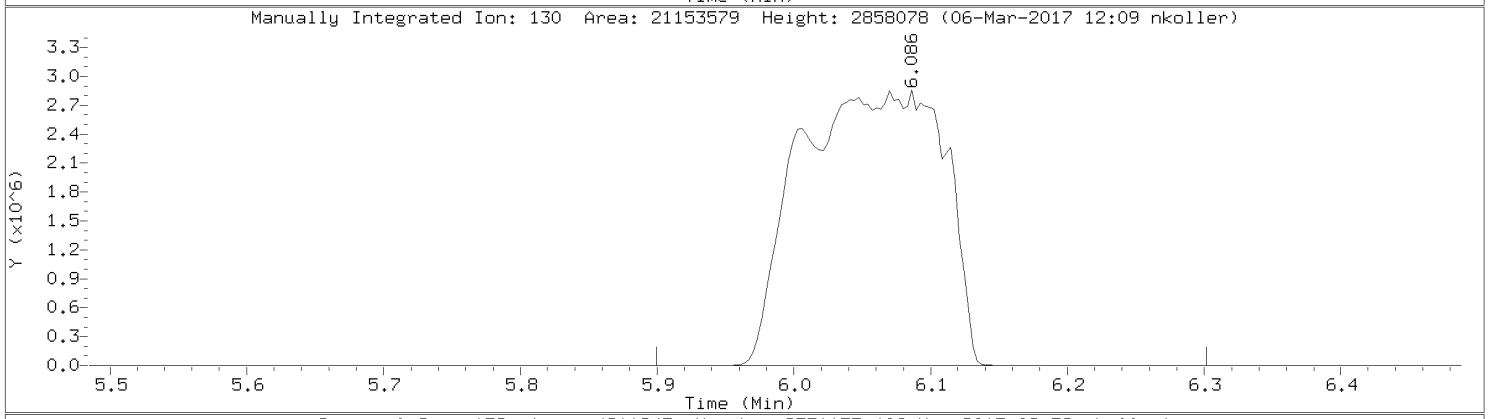
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06424.D
Injection Date: 05-MAR-2017 21:02
Instrument: 10airB.i
Lab Sample ID: 10380193005

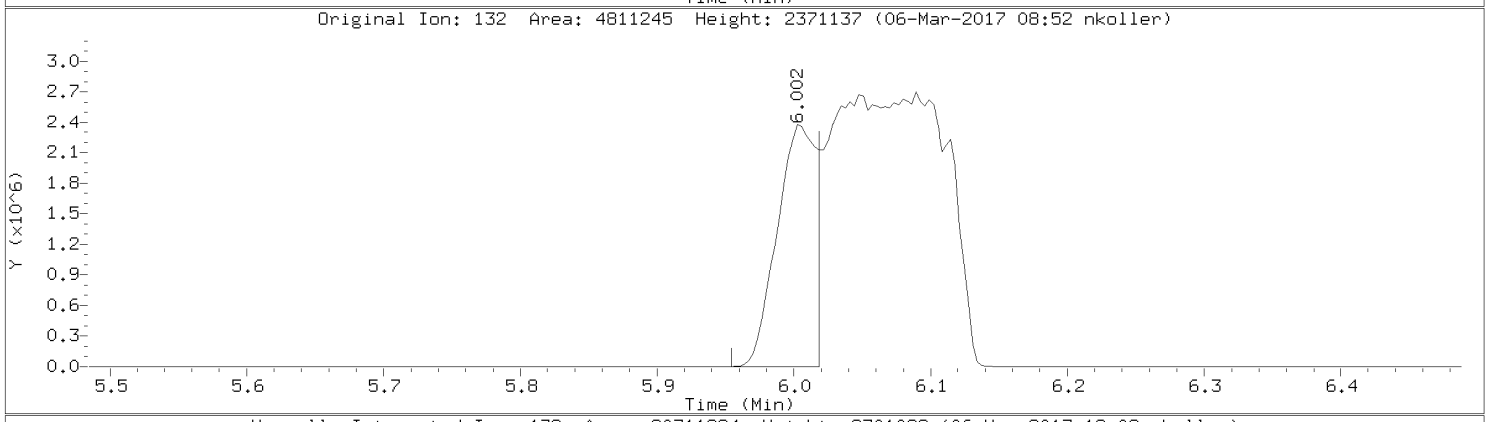


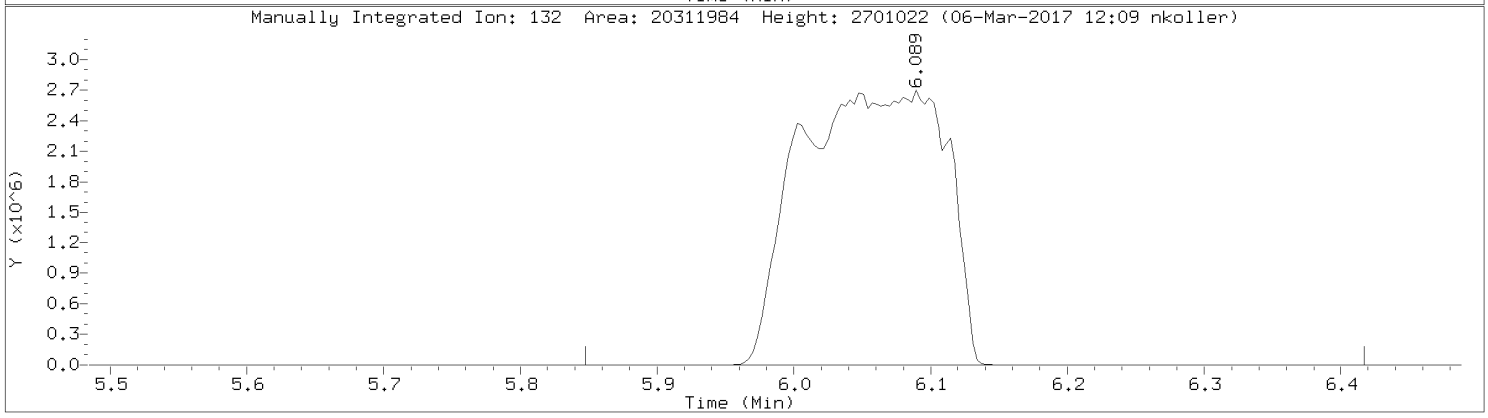
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06424.D
Injection Date: 05-MAR-2017 21:02
Instrument: 10airB.i
Lab Sample ID: 10380193005

Compound: Trichloroethene
CAS Number: 79-01-6

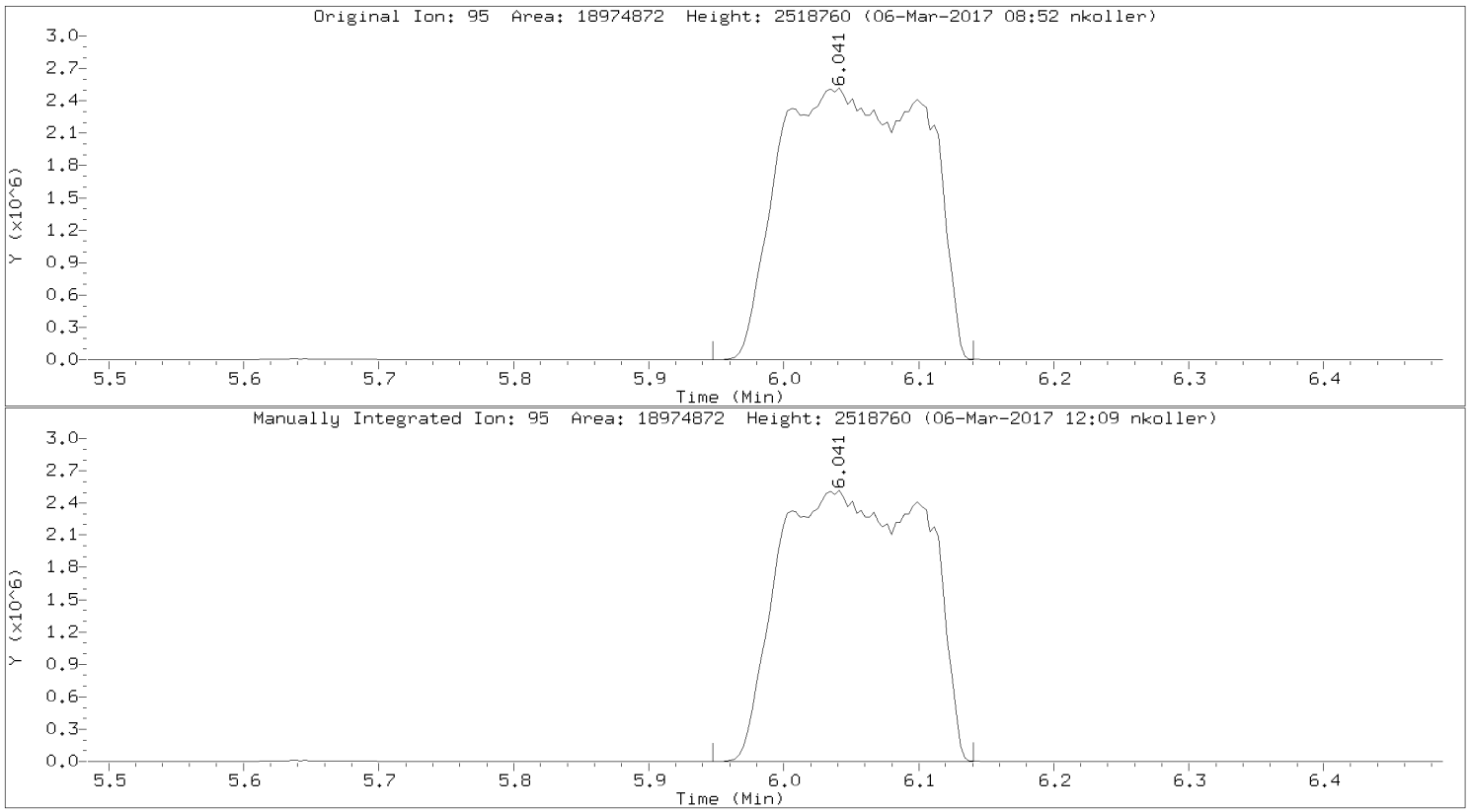






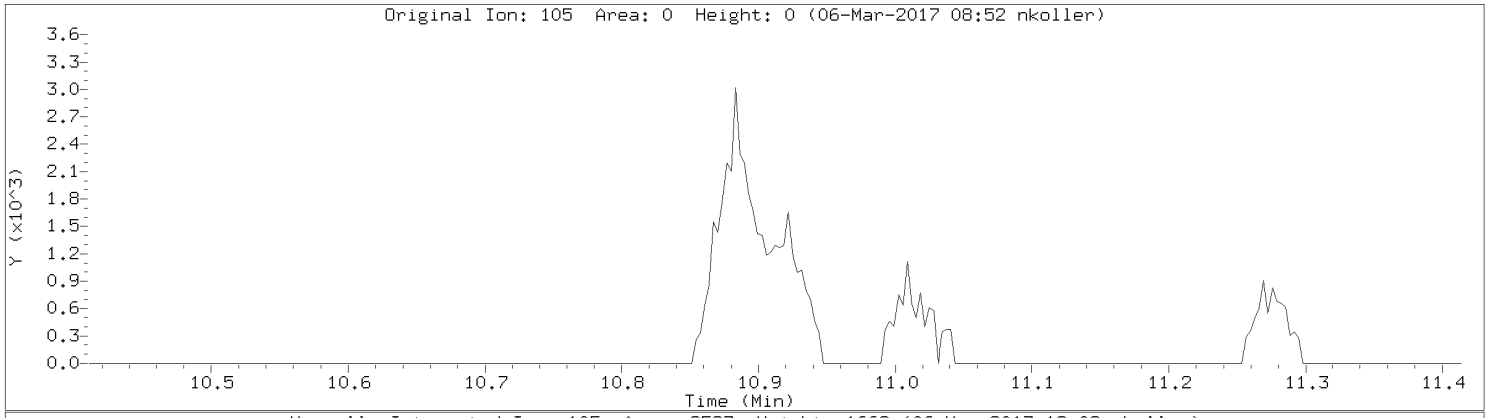


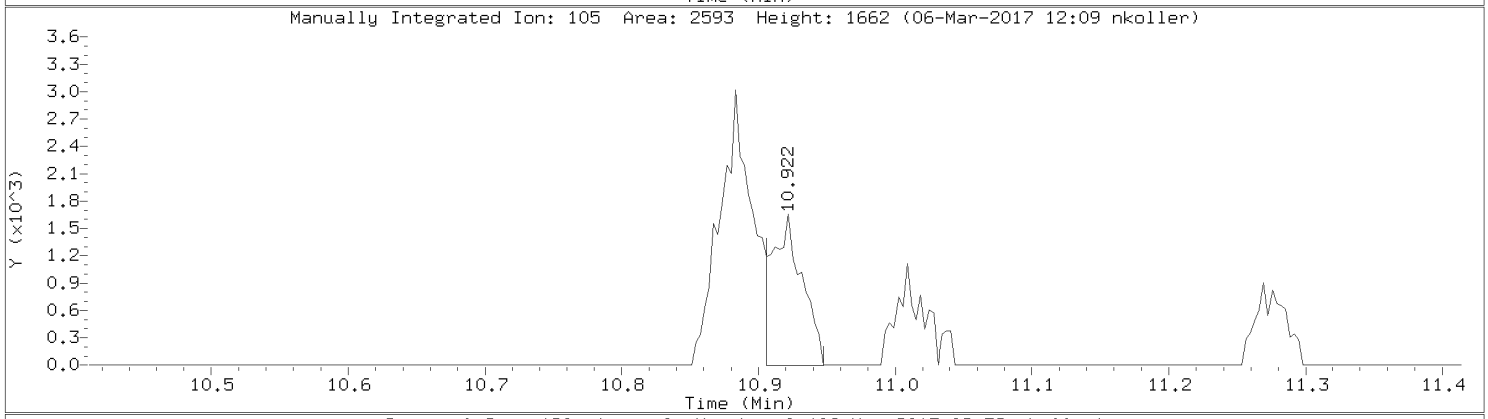
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06424.D
Injection Date: 05-MAR-2017 21:02
Instrument: 10airB.i
Lab Sample ID: 10380193005

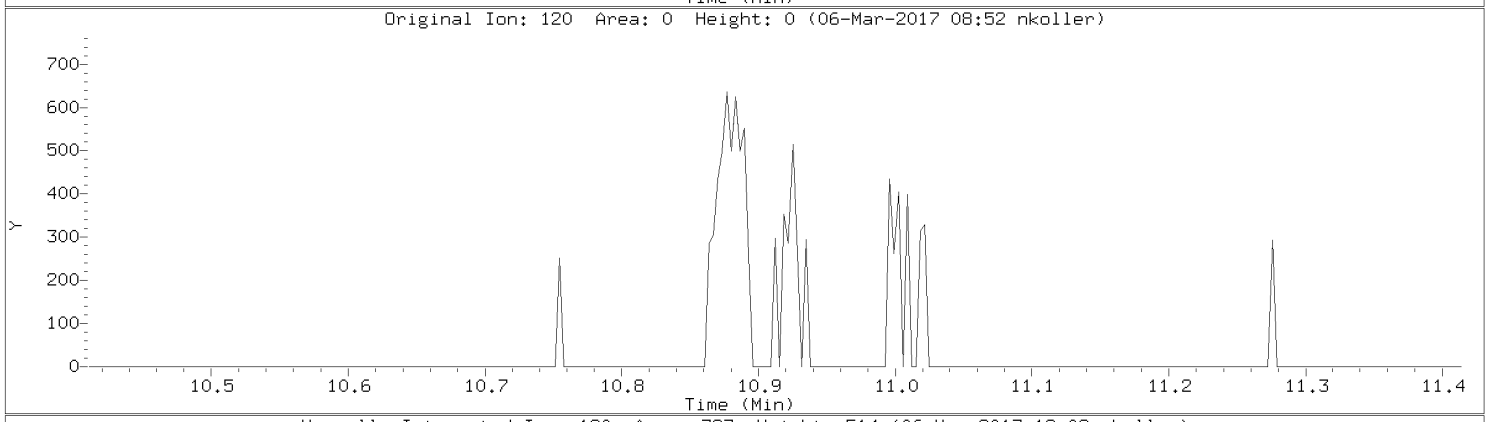


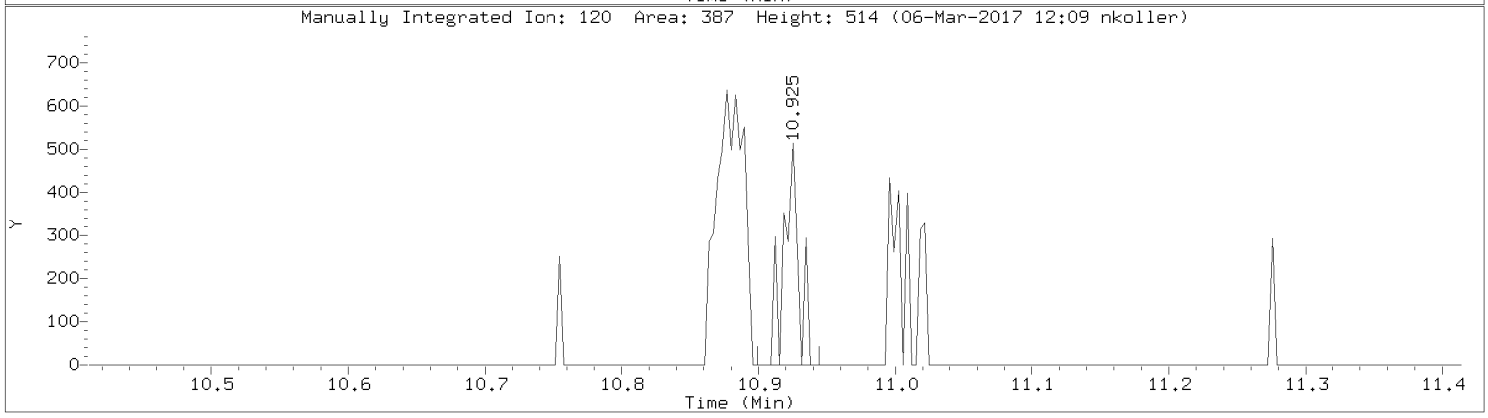
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06424.D
Injection Date: 05-MAR-2017 21:02
Instrument: 10airB.i
Lab Sample ID: 10380193005

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

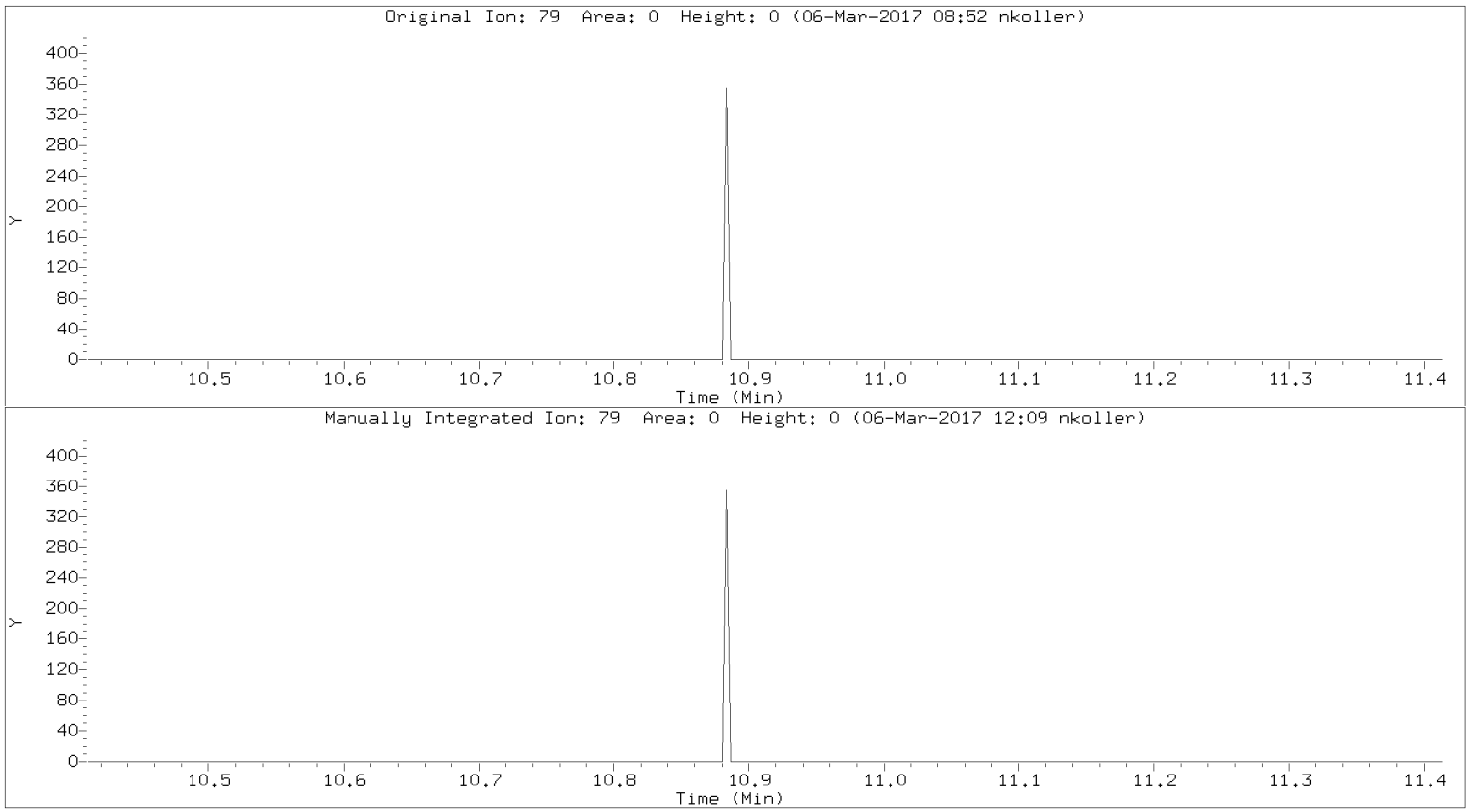






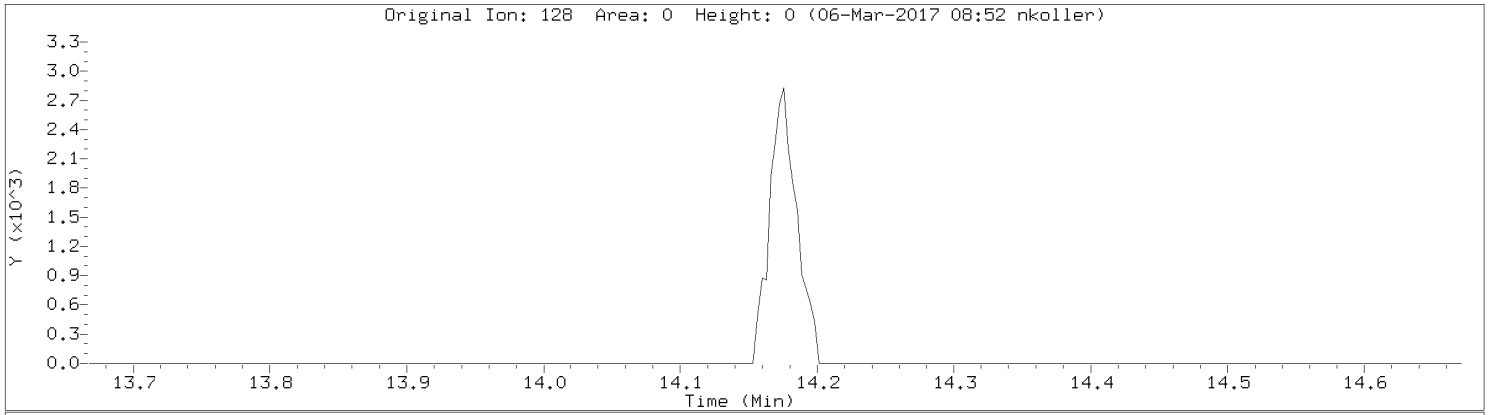


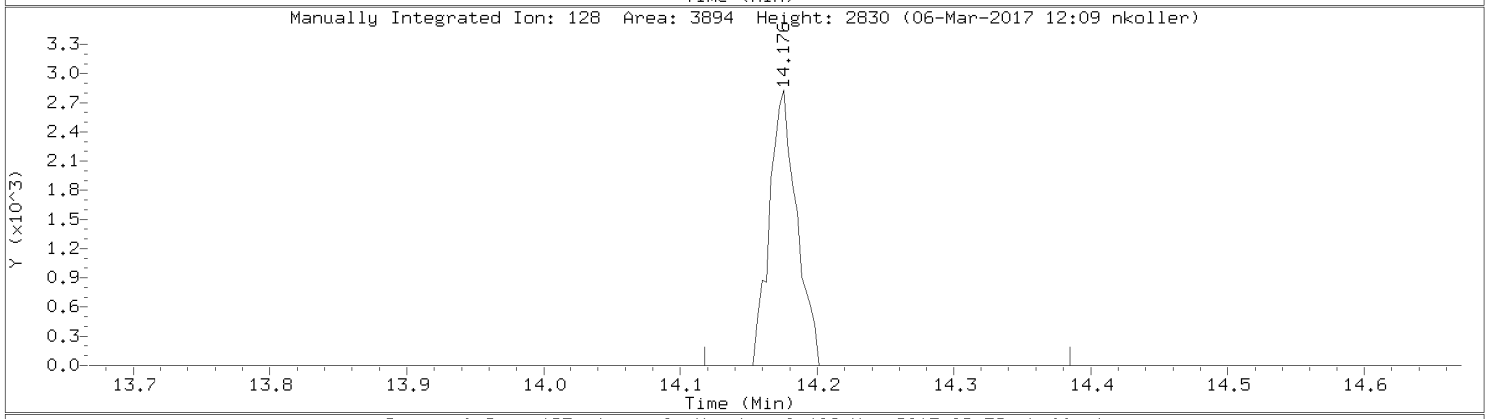
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06424.D
Injection Date: 05-MAR-2017 21:02
Instrument: 10airB.i
Lab Sample ID: 10380193005

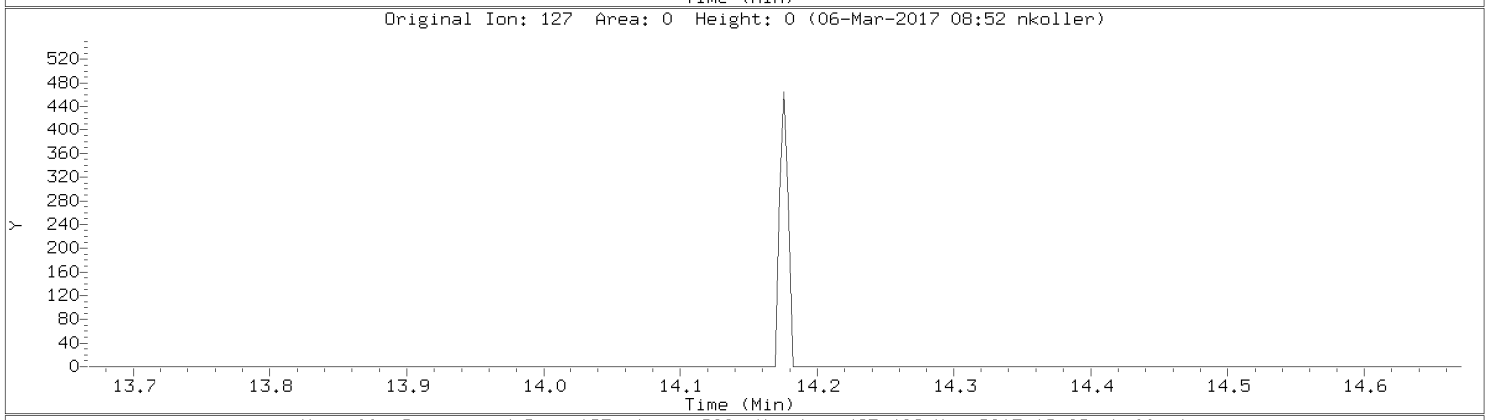


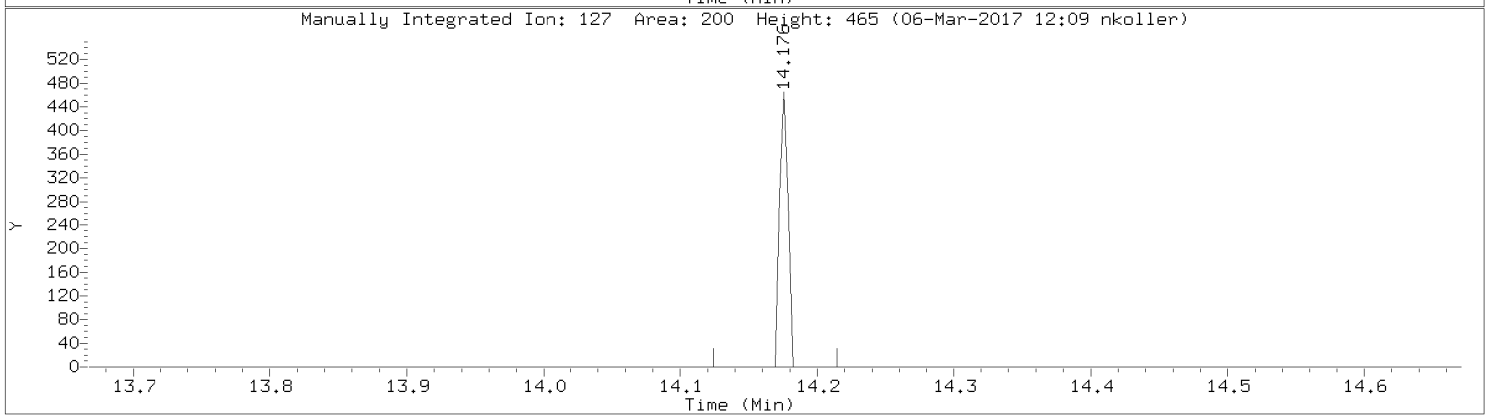
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06424.D
Injection Date: 05-MAR-2017 21:02
Instrument: 10airB.i
Lab Sample ID: 10380193005

Compound: Naphthalene
CAS Number: 91-20-3









Data File: \\192.168.10.12\chem\10airB.i\030617.b\06510.D
Report Date: 07-Mar-2017 14:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06510.D
Lab Smp Id: 10380193005
Inj Date : 06-MAR-2017 13:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 13:55 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 10
Dil Factor: 9369.60000
Integrator: HP RTE Compound Sublist: dil.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	9369.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
22	Freon 113	101	3.925	3.954	(0.701)	18899	0.68885	6450
28	trans-1,2-dichloroethene	96	Compound Not Detected.					
37	cis-1,2-Dichloroethene	96	4.693	4.725	(0.838)	5123	0.38676	3620
39	Chloroform	83	Compound Not Detected.					
* 47	1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1325196	10.0000	
51	Trichloroethene	130	5.973	5.989	(1.067)	245267	11.0154	103000
66	Tetrachloroethene	166	7.983	7.989	(0.924)	27030	0.91761	8600
* 67	Chlorobenzene - d5	117	8.639	8.645	(1.000)	848313	10.0000	

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06510.D
Report Date: 07-Mar-2017 14:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06510.D
Lab Smp Id: 10380193005
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

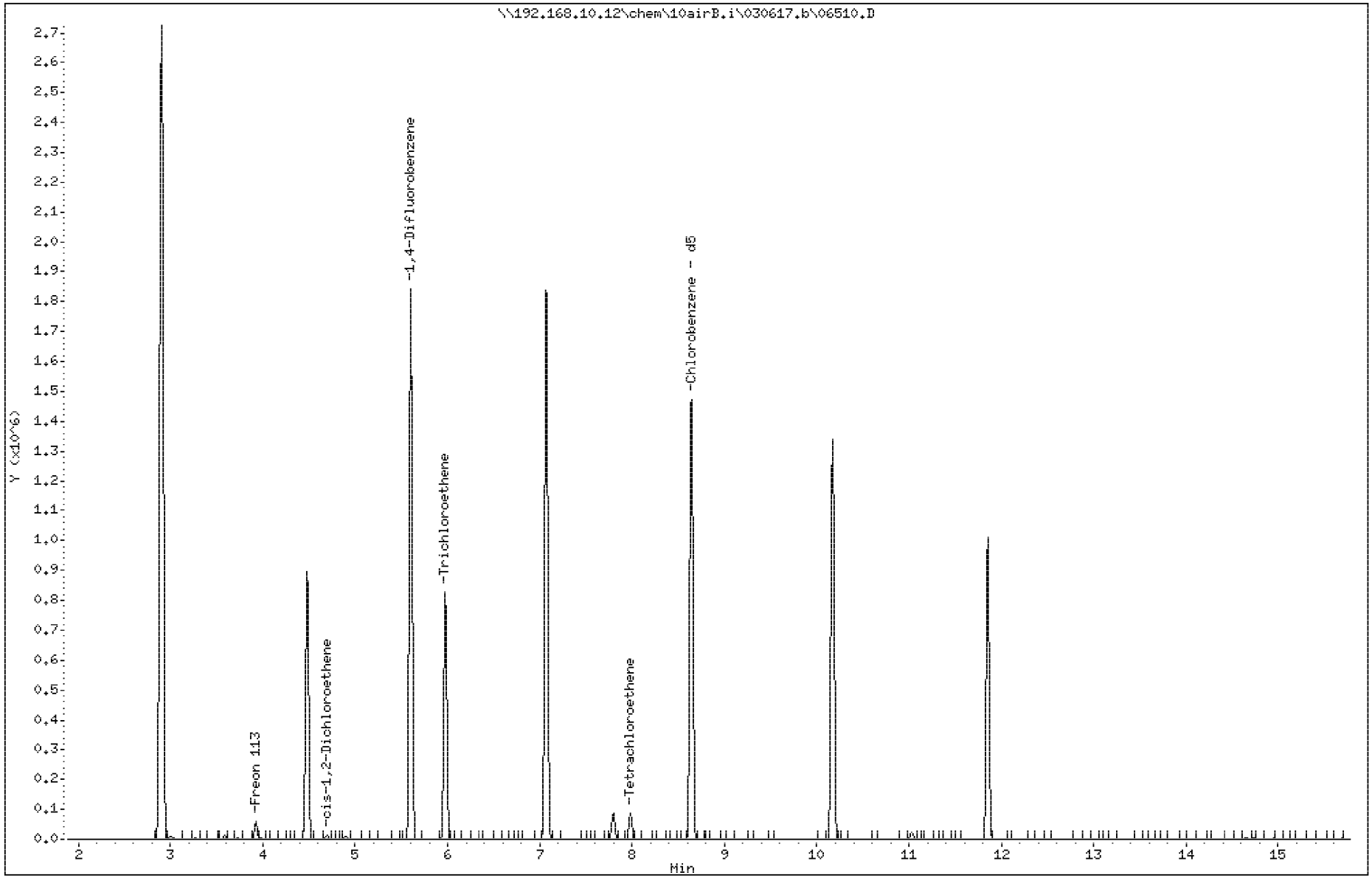
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1325196	-6.29
67 Chlorobenzene - d	951026	570616	1331436	848313	-10.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06510.D
Date : 06-MAR-2017 13:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06510.D

Date : 06-MAR-2017 13:10

Client ID:

Instrument: 10airB.i

Sample Info:

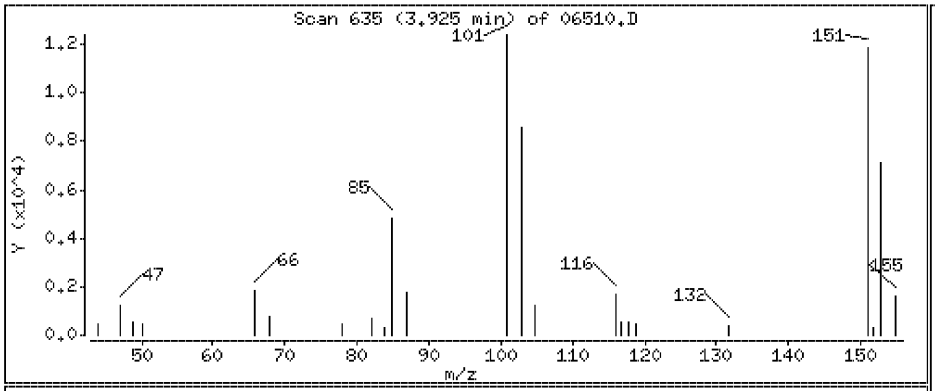
Operator: NCK

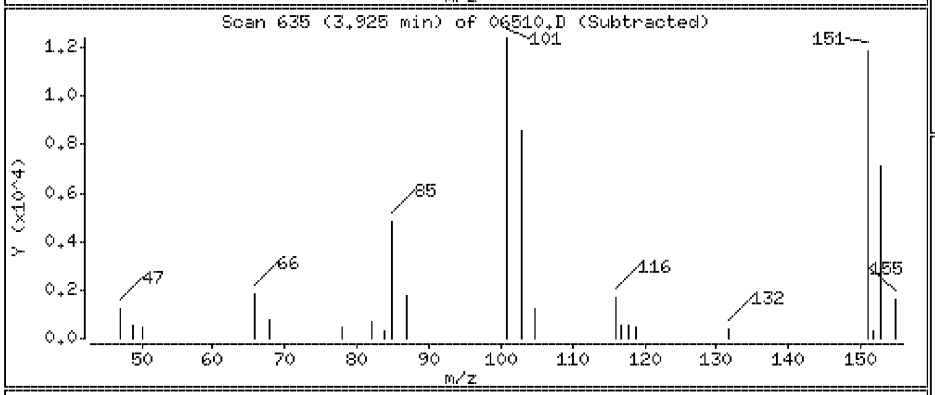
Column phase: J&W DB-5

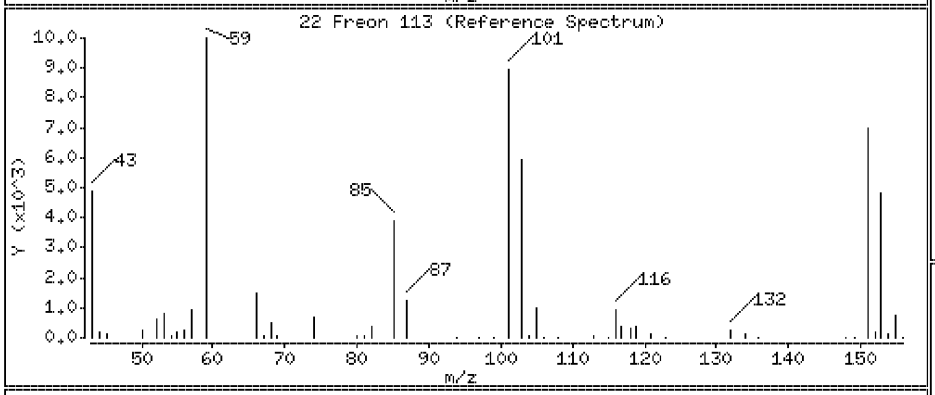
Column diameter: 0.32

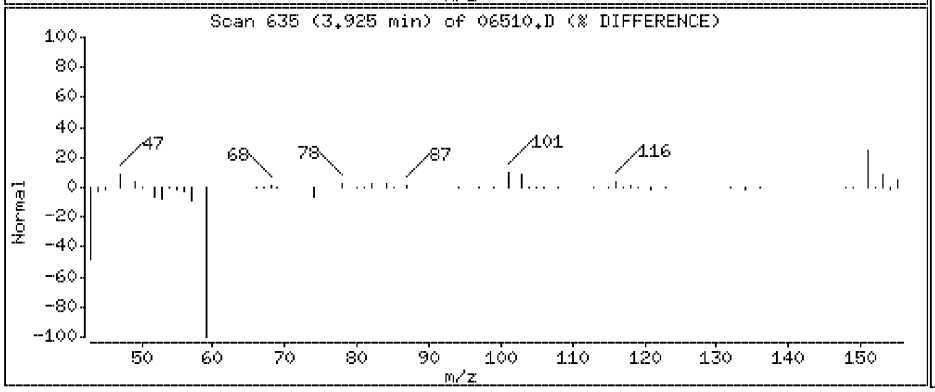
22 Freon 113

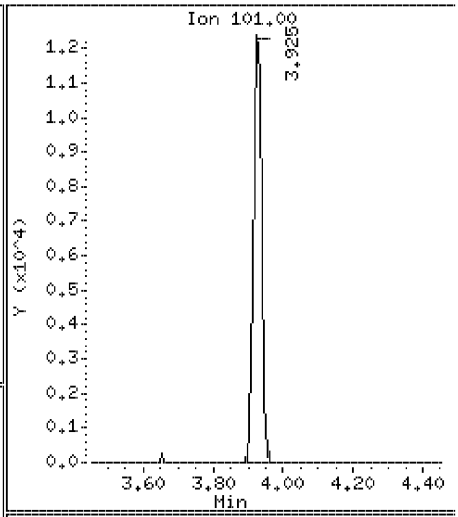
Concentration: 6450 ppbv

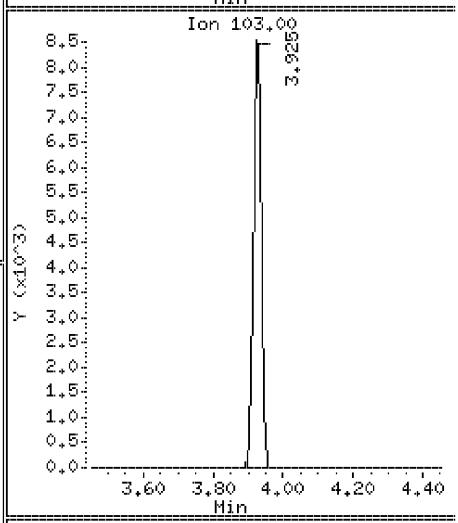


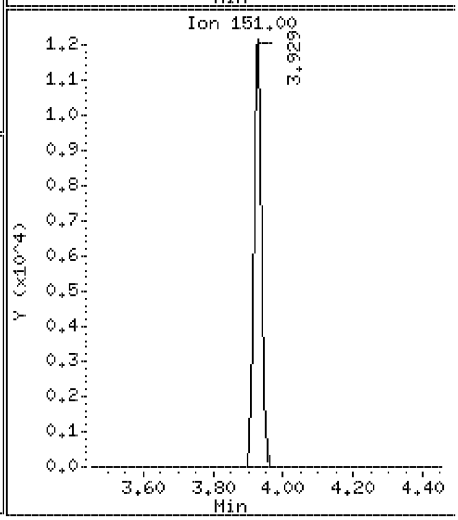












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06510.D

Date : 06-MAR-2017 13:10

Client ID:

Instrument: 10airB.i

Sample Info:

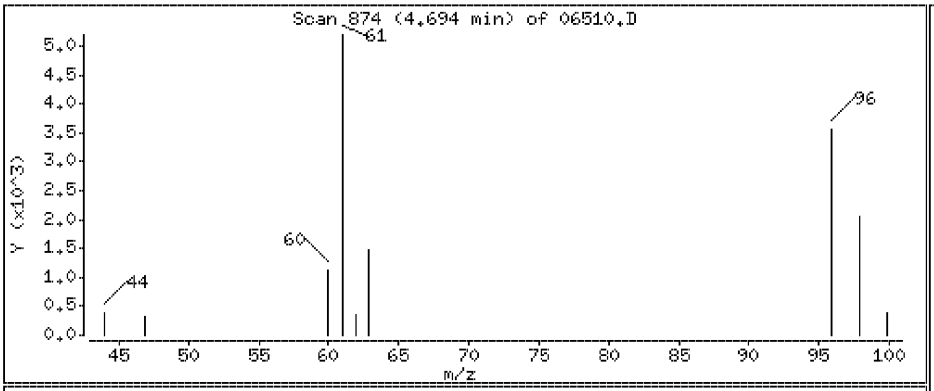
Operator: NCK

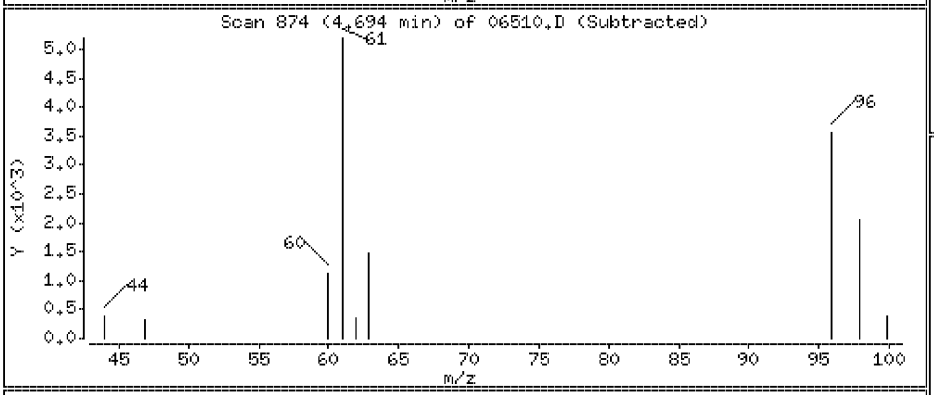
Column phase: J&W DB-5

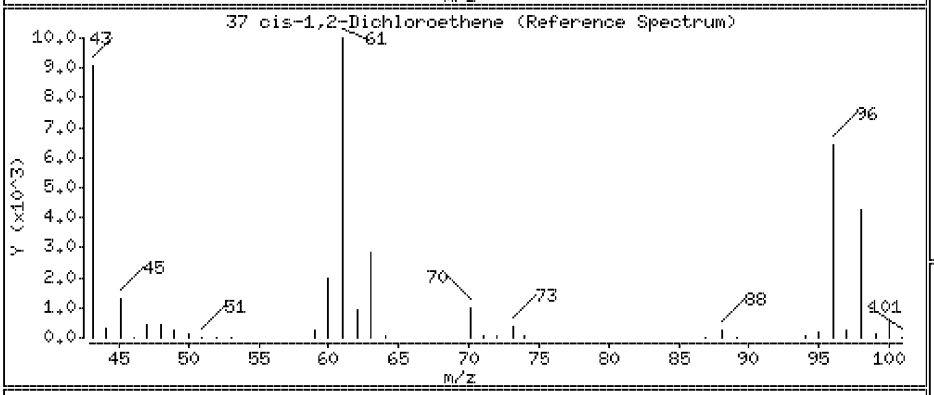
Column diameter: 0.32

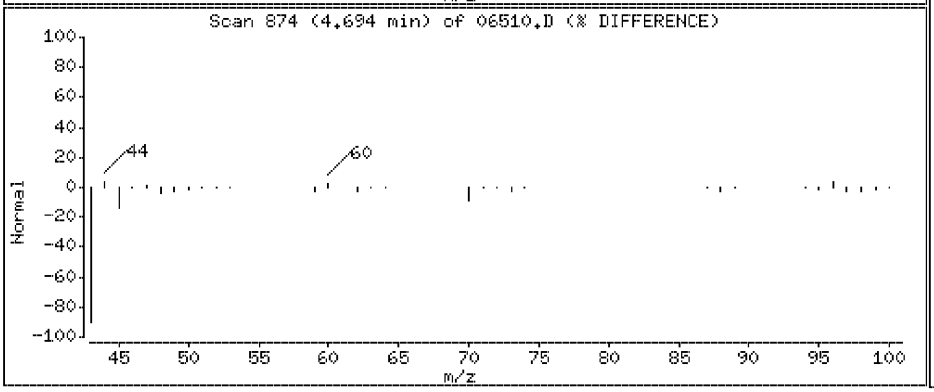
37 cis-1,2-Dichloroethene

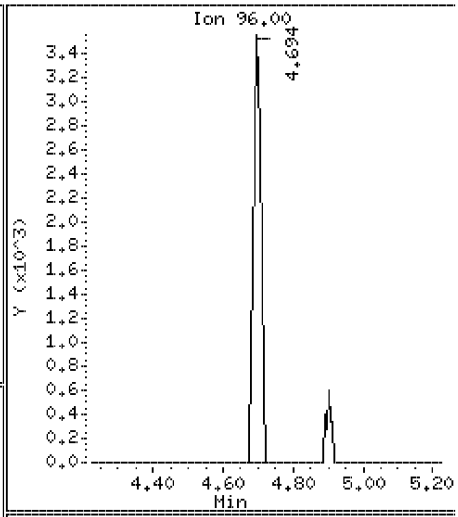
Concentration: 3620 ppbv

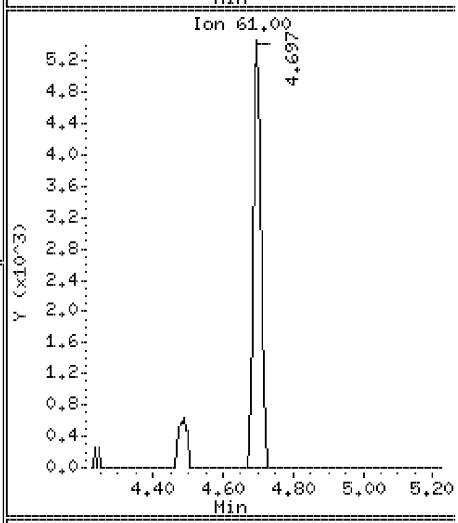


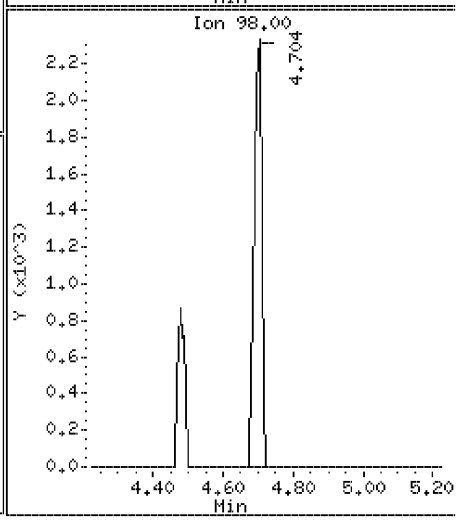












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06510.D

Date : 06-MAR-2017 13:10

Client ID:

Instrument: 10airB.i

Sample Info:

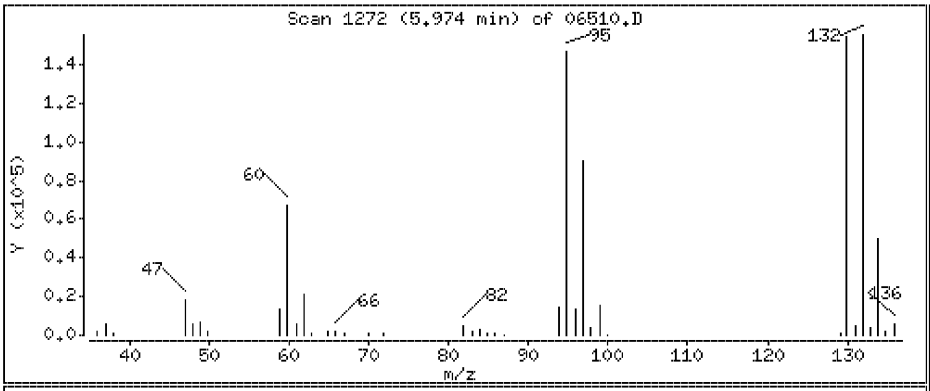
Operator: NCK

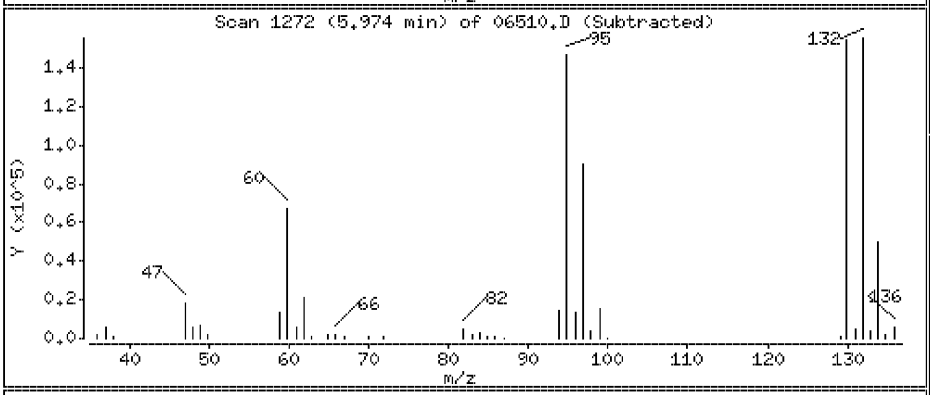
Column phase: J&W DB-5

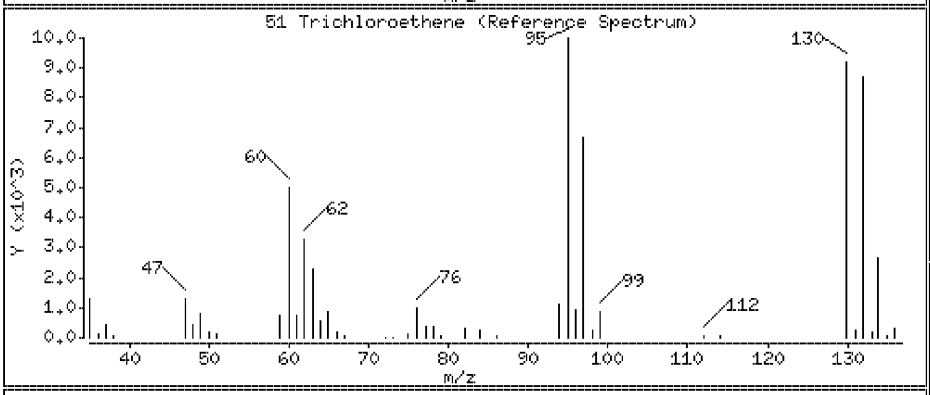
Column diameter: 0.32

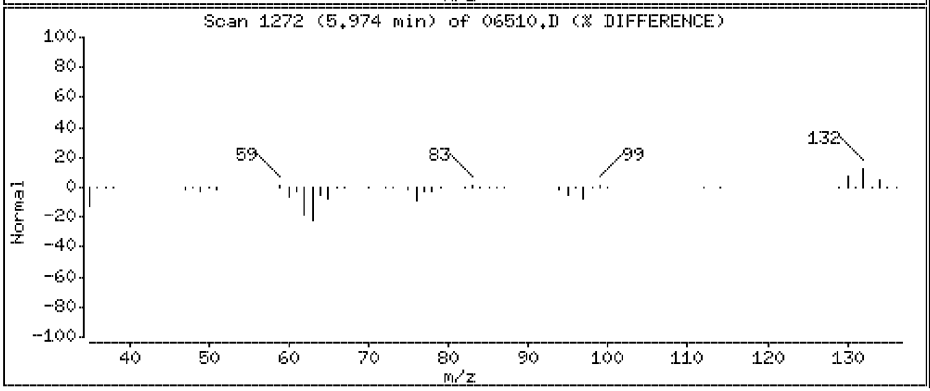
51 Trichloroethene

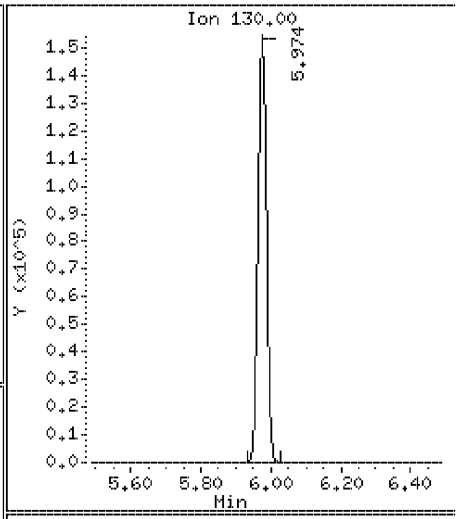
Concentration: 103000 ppbv

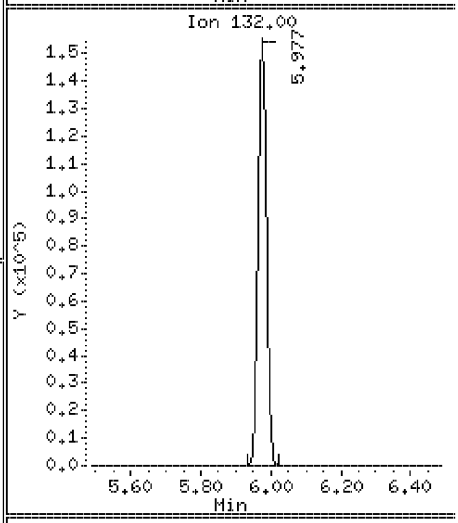


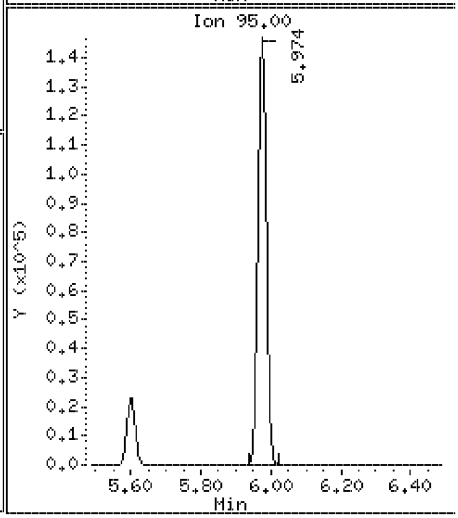












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06510.D

Date : 06-MAR-2017 13:10

Client ID:

Instrument: 10airB.i

Sample Info:

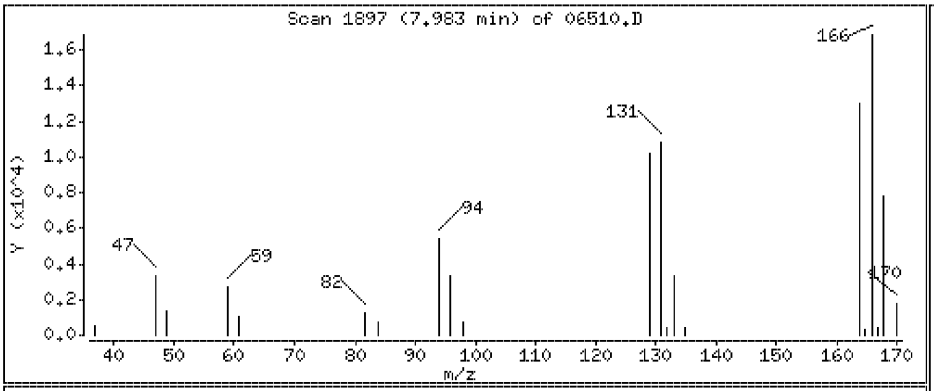
Operator: NCK

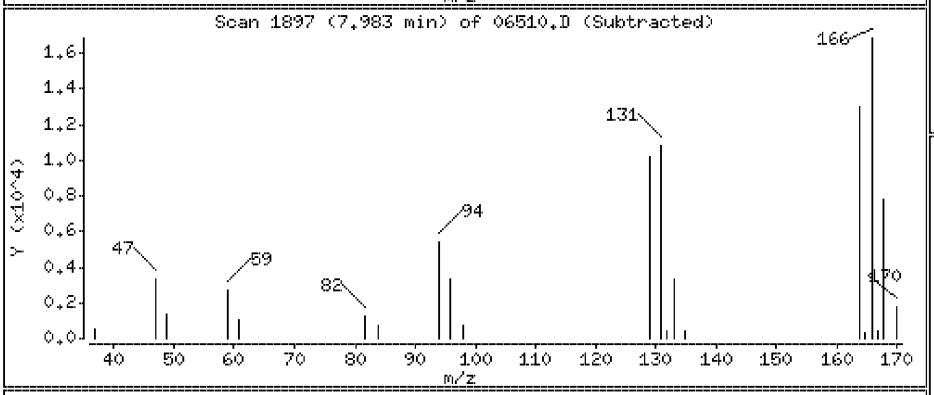
Column phase: J&W DB-5

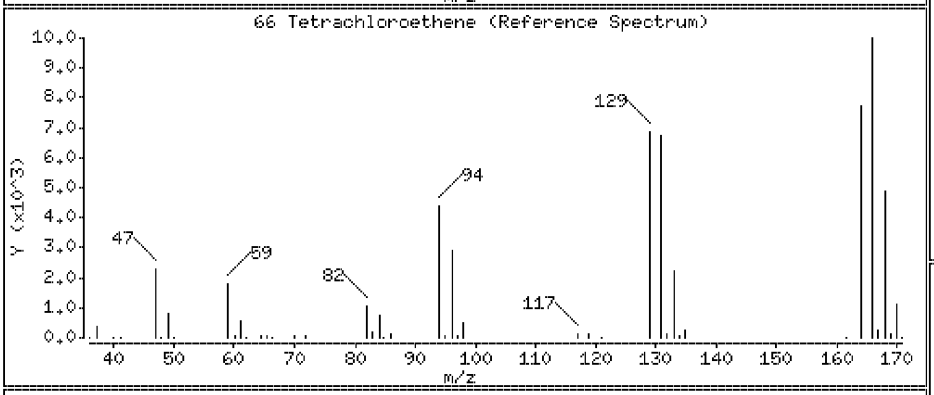
Column diameter: 0.32

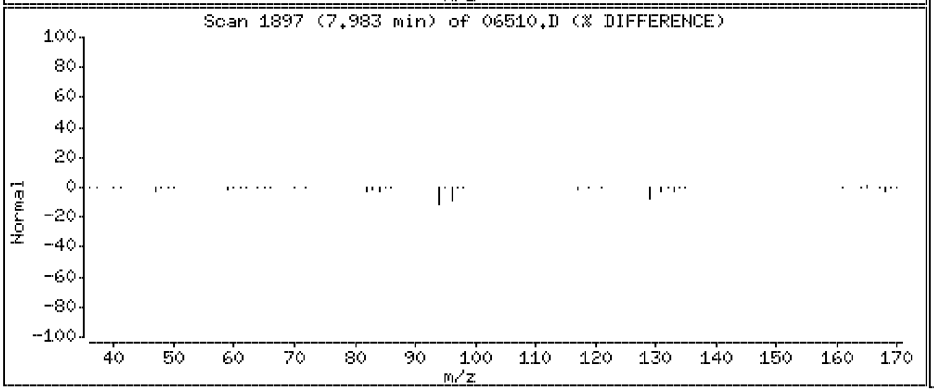
66 Tetrachloroethene

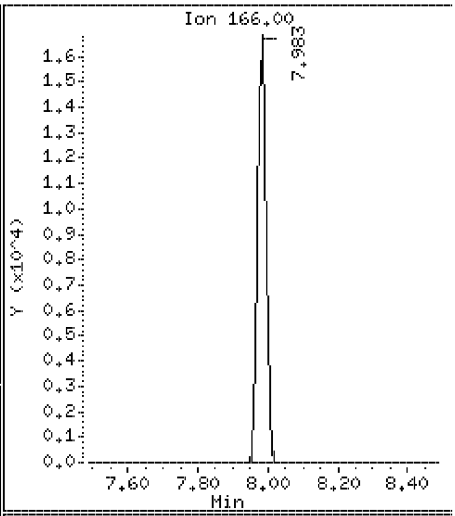
Concentration: 8600 ppbv

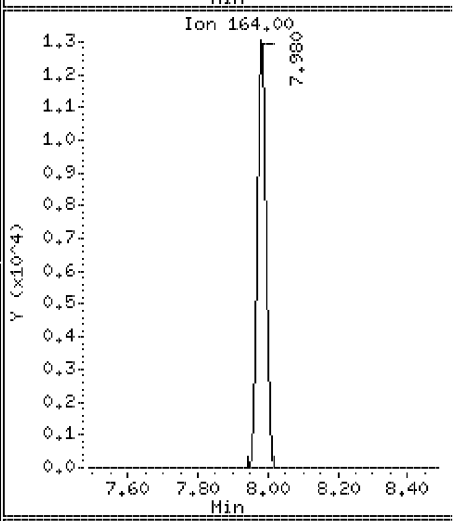


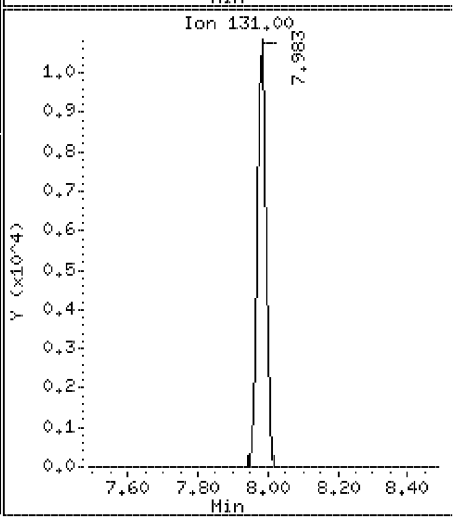












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06510.D
Injection Date: 06-MAR-2017 13:10
Instrument: 10airB.i
Lab Sample ID: 10380193005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_40_20170223 **Lab ID: 10380193005** Collected: 02/23/17 13:03 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/05/17 21:02	123-91-1	
Ethylbenzene	**3.3**	ug/m3	1.6	0.78	1.83		03/05/17 21:02	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.8	0.34	1.83		03/05/17 21:02	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/05/17 21:02	87-68-3	
n-Hexane	**1.6**	ug/m3	1.3	0.65	1.83		03/05/17 21:02	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/05/17 21:02	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/05/17 21:02	98-82-8	
Methyl acetate	**14.8**	ug/m3	2.8	2.8	1.83		03/05/17 21:02	79-20-9	
Methylcyclohexane	**2.9**	ug/m3	1.5	0.44	1.83		03/05/17 21:02	108-87-2	
Methylene Chloride	**124**	ug/m3	6.5	0.99	1.83		03/05/17 21:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/05/17 21:02	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/05/17 21:02	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/05/17 21:02	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/05/17 21:02	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/05/17 21:02	79-34-5	
Tetrachloroethene	**3900**	ug/m3	1.3	0.51	1.83		03/05/17 21:02	127-18-4	
Tetrachloroethene	**59300**	ug/m3	6460	2600	9369.6		03/06/17 13:10	127-18-4	A3
Toluene	**13.3**	ug/m3	1.4	0.28	1.83		03/05/17 21:02	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/05/17 21:02	120-82-1	
1,1,1-Trichloroethane	**1.2J**	ug/m3	2.0	0.45	1.83		03/05/17 21:02	71-55-6	
1,1,2-Trichloroethane	**26.4**	ug/m3	1.0	0.45	1.83		03/05/17 21:02	79-00-5	
Trichloroethene	**9620**	ug/m3	1.0	0.51	1.83		03/05/17 21:02	79-01-6	
Trichloroethene	**564000**	ug/m3	5150	2590	9369.6		03/06/17 13:10	79-01-6	A3
Trichlorofluoromethane	**33.8**	ug/m3	2.1	0.24	1.83		03/05/17 21:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3660**	ug/m3	2.9	0.55	1.83		03/05/17 21:02	76-13-1	
1,1,2-Trichlorotrifluoroethane	**50300**	ug/m3	15000	2820	9369.6		03/06/17 13:10	76-13-1	A3
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/05/17 21:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/05/17 21:02	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/05/17 21:02	75-01-4	
m&p-Xylene	**12.2**	ug/m3	3.2	1.4	1.83		03/05/17 21:02	179601-23-1	
o-Xylene	**2.8**	ug/m3	1.6	0.64	1.83		03/05/17 21:02	95-47-6	

Sample: VP-NYSDEC-5_50_20170223 **Lab ID: 10380193006** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**9.1**	ug/m3	4.4	1.5	1.83		03/05/17 21:33	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/05/17 21:33	107-05-1	
Benzene	**<0.22**	ug/m3	0.59	0.22	1.83		03/05/17 21:33	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/05/17 21:33	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/05/17 21:33	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/05/17 21:33	74-83-9	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_50_20170223 **Lab ID: 10380193006** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/05/17 21:33	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/05/17 21:33	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/05/17 21:33	75-15-0	
Carbon tetrachloride	**3.2**	ug/m3	1.2	0.35	1.83		03/05/17 21:33	56-23-5	
Chlorobenzene	**0.94J**	ug/m3	1.7	0.25	1.83		03/05/17 21:33	108-90-7	
Chlorodifluoromethane	**77.3**	ug/m3	1.3	0.51	1.83		03/05/17 21:33	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/05/17 21:33	75-00-3	
Chloroform	**99.5**	ug/m3	0.91	0.35	1.83		03/05/17 21:33	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/05/17 21:33	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/05/17 21:33	76-15-3	
Cyclohexane	**1.7**	ug/m3	1.3	0.58	1.83		03/05/17 21:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/05/17 21:33	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/05/17 21:33	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/05/17 21:33	106-93-4	
1,2-Dichlorobenzene	**3.7**	ug/m3	2.2	0.94	1.83		03/05/17 21:33	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/05/17 21:33	541-73-1	
1,4-Dichlorobenzene	**1.2J**	ug/m3	2.2	0.91	1.83		03/05/17 21:33	106-46-7	
Dichlorodifluoromethane	**1.9**	ug/m3	1.8	0.88	1.83		03/05/17 21:33	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/05/17 21:33	75-34-3	
1,2-Dichloroethane	**1.8**	ug/m3	0.75	0.38	1.83		03/05/17 21:33	107-06-2	
1,1-Dichloroethene	**27.8**	ug/m3	1.5	0.44	1.83		03/05/17 21:33	75-35-4	
cis-1,2-Dichloroethene	**550**	ug/m3	1.5	0.45	1.83		03/05/17 21:33	156-59-2	
cis-1,2-Dichloroethene	**<2300**	ug/m3	7590	2300	9369.6		03/06/17 13:38	156-59-2	A3
trans-1,2-Dichloroethene	**27.8**	ug/m3	1.5	0.70	1.83		03/05/17 21:33	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/05/17 21:33	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/05/17 21:33	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/05/17 21:33	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/05/17 21:33	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/05/17 21:33	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/05/17 21:33	123-91-1	
Ethylbenzene	**4.6**	ug/m3	1.6	0.78	1.83		03/05/17 21:33	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.8	0.34	1.83		03/05/17 21:33	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/05/17 21:33	87-68-3	
n-Hexane	**0.83J**	ug/m3	1.3	0.65	1.83		03/05/17 21:33	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/05/17 21:33	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/05/17 21:33	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/05/17 21:33	79-20-9	
Methylcyclohexane	**0.95J**	ug/m3	1.5	0.44	1.83		03/05/17 21:33	108-87-2	
Methylene Chloride	**3.5J**	ug/m3	6.5	0.99	1.83		03/05/17 21:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/05/17 21:33	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/05/17 21:33	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/05/17 21:33	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/05/17 21:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/05/17 21:33	79-34-5	
Tetrachloroethene	**1110**	ug/m3	1.3	0.51	1.83		03/05/17 21:33	127-18-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D
Report Date: 06-Mar-2017 12:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06425.D
Lab Smp Id: 10380193006
Inj Date : 05-MAR-2017 21:33
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 25
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.015	2.979	(0.534)	4815	0.60380	1.10(Q)	
3	Chlorodifluoromethane	67	3.024	2.989	(0.536)	44872	11.7472	21.5(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.021	(0.541)	11135	0.21112	0.386(H)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	3.233	3.201	(0.573)	3571	0.26451	0.484	
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.545	3.542	(0.628)	36791	7.36119	13.5	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.584	3.578	(0.635)	4543	0.19857	0.363(Q)	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.661	3.655	(0.648)	30020	0.80501	1.47	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.732	3.713	(0.661)	44427	2.05853	3.77	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.896	3.896	(0.690)	81794	3.77139	6.90	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.950	3.934	(0.699)	472404	16.7754	30.7	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D
Report Date: 06-Mar-2017 12:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	3.992	(0.706)	8223	0.53983	0.988	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.259	4.269	(0.754)	45844	3.76736	6.89	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.487	4.481	(0.794)	373100	8.62145	8.62	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.587	4.578	(0.812)	2738	0.12623	0.231(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.716	4.722	(0.835)	1014554	74.6220	137(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.828	4.838	(0.855)	308821	10.9590	20.1	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.230	5.227	(0.926)	5021	0.15146	0.277	
	42 1,2-Dichloroethane	62	5.233	5.233	(0.927)	5909	0.23496	0.430	
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	5.491	5.484	(0.972)	9006	0.27183	0.497	
	45 Cyclohexane	56	5.487	5.484	(0.972)	5948	0.27086	0.496(QM)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.648	5.610	(1.000)	1360217	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.040	5.986	(1.069)	28435335	1244.21	2280(AM)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	6.503	6.430	(1.151)	1588	0.12777	0.234	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.143	7.076	(1.265)	1048200	8.60993	8.61	
	60 1,1,2-Trichloroethane	97	7.201	7.143	(1.275)	290846	15.9426	29.2	
	61 Toluene	91	7.217	7.153	(1.278)	94667	1.72319	3.15	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	7.629	7.584	(0.879)	3879	0.13839	0.253(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.044	7.986	(0.927)	2511380	88.2562	162(A)	
*	67 Chlorobenzene - d5	117	8.680	8.645	(1.000)	819476	10.0000		
	68 Chlorobenzene	112	8.725	8.687	(1.005)	4476	0.11013	0.202	
	69 Ethyl Benzene	91	8.966	8.934	(1.033)	34311	0.56926	1.04	
	70 m&p-Xylene	91	9.108	9.082	(1.049)	99821	2.11006	3.86	
	71 n-Nonane	43	9.494	9.468	(1.094)	2888	0.11836	0.217	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.603	9.581	(1.106)	23020	0.47830	0.875	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D
Report Date: 06-Mar-2017 12:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.921	10.912	(1.258)	3125	0.14307	0.262(QM)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.404	11.378	(2.019)	5289	0.38560	0.706(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.863	11.854	(1.367)	427584	9.47195	9.47	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	11.899	11.889	(1.371)	3514	0.11019	0.202(Q)	
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	12.288	12.281	(1.416)	8445	0.33226	0.608	
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.169	(1.633)	3749	0.45013	0.824	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D
Report Date: 06-Mar-2017 12:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06425.D
Lab Smp Id: 10380193006
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

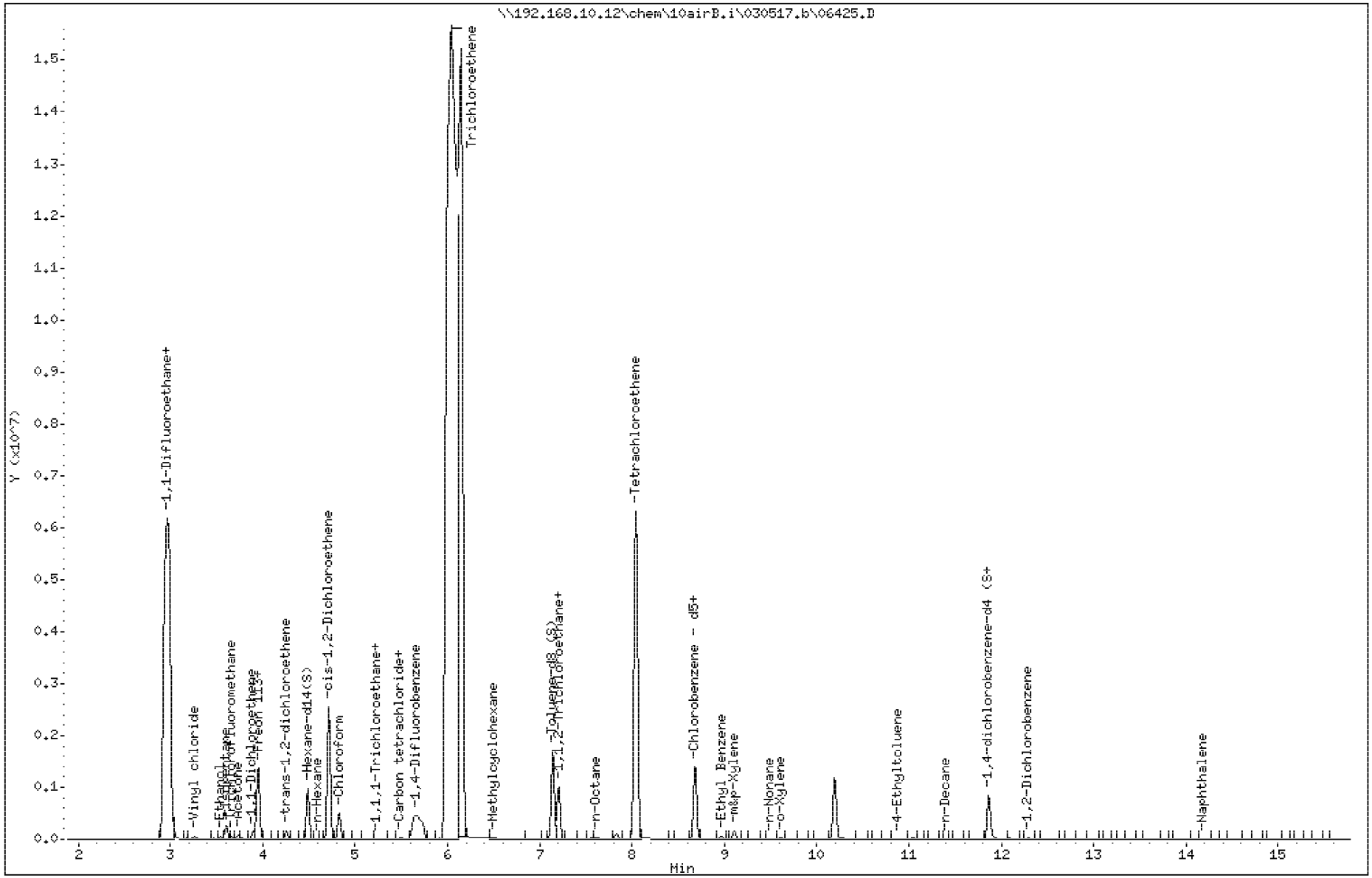
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1360217	-3.81
67 Chlorobenzene - d	951026	570616	1331436	819476	-13.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.65	0.69
67 Chlorobenzene - d	8.65	8.32	8.98	8.68	0.41

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D
Date : 05-MAR-2017 21:33
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

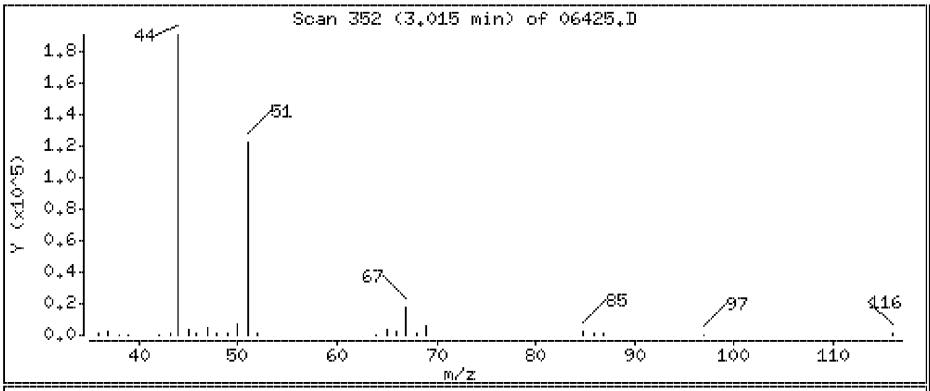
Operator: NCK

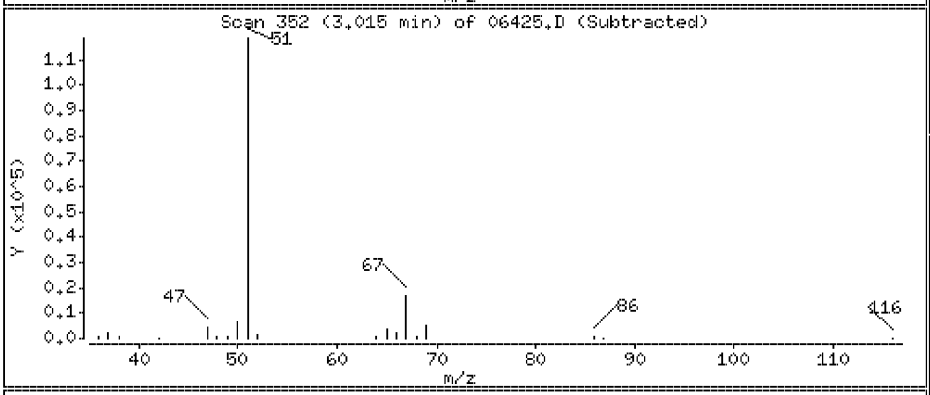
Column phase: J&W DB-5

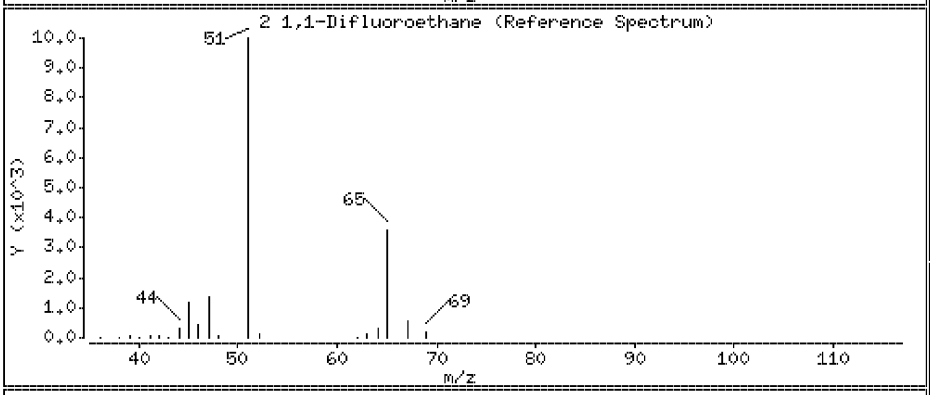
Column diameter: 0.32

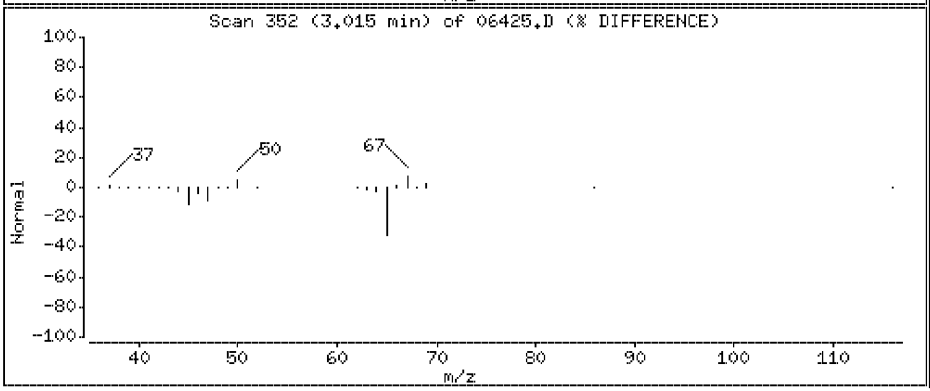
2 1,1-Difluoroethane

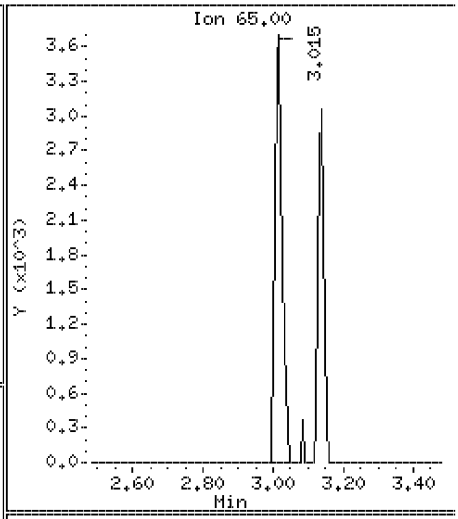
Concentration: 1.10 ppbv

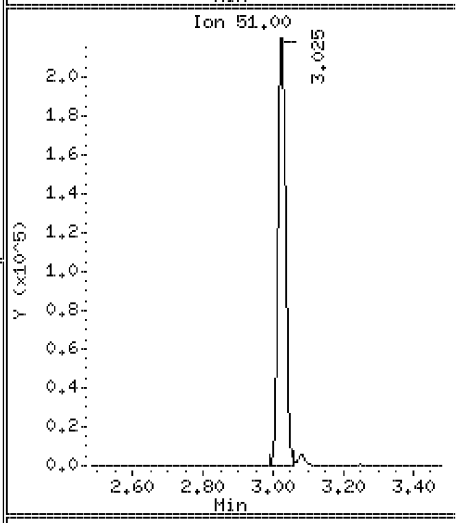


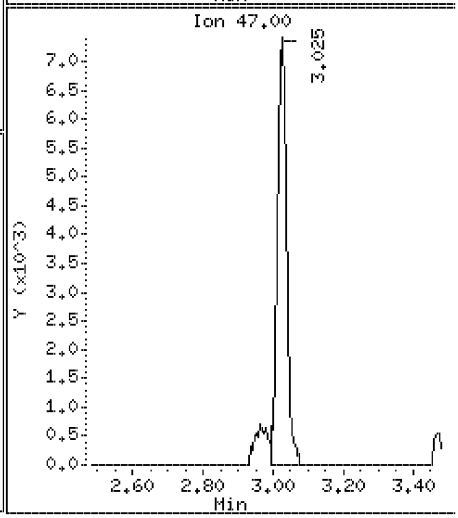












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

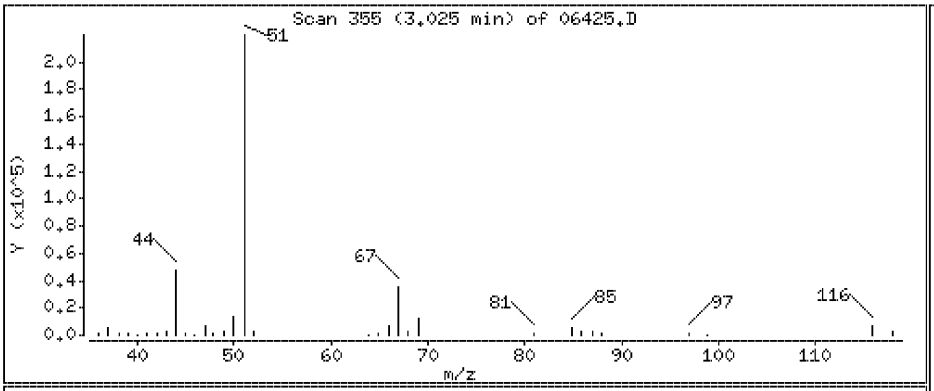
Operator: NCK

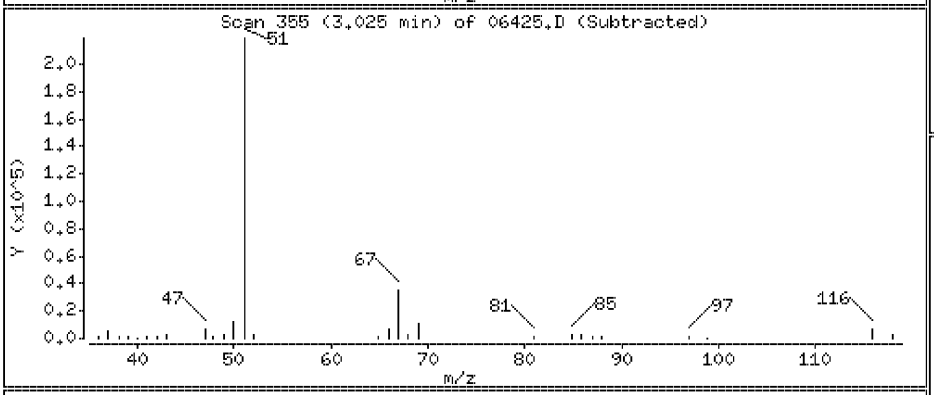
Column phase: J&W DB-5

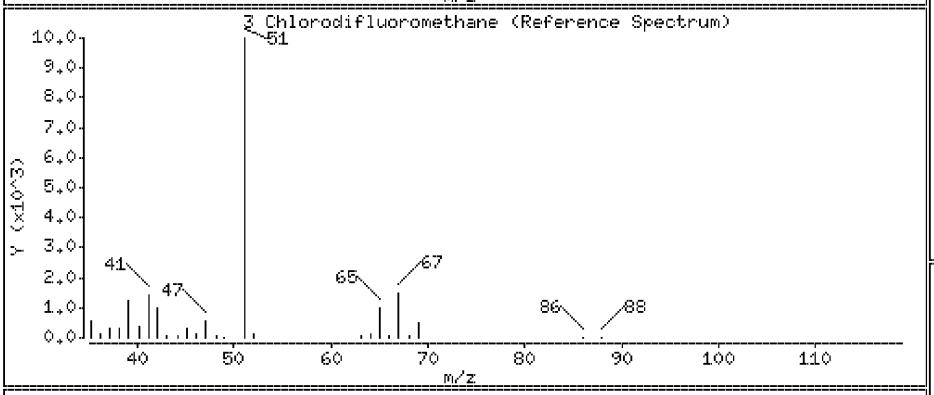
Column diameter: 0.32

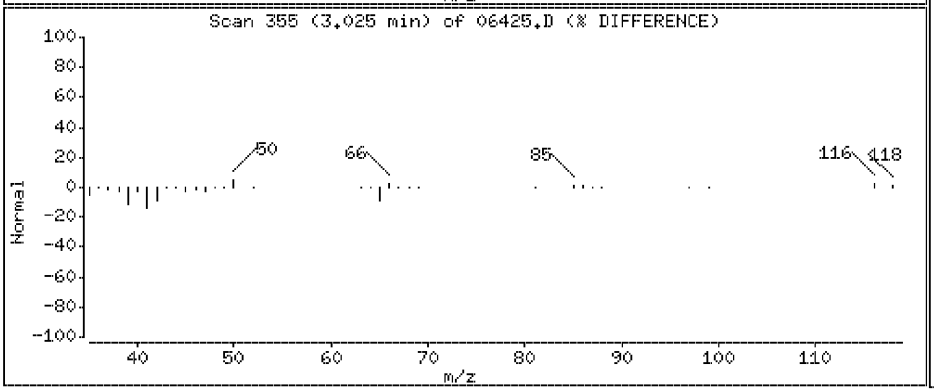
3 Chlorodifluoromethane

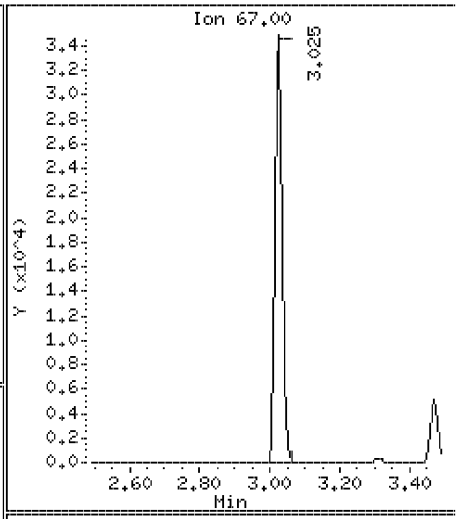
Concentration: 21.5 ppbv

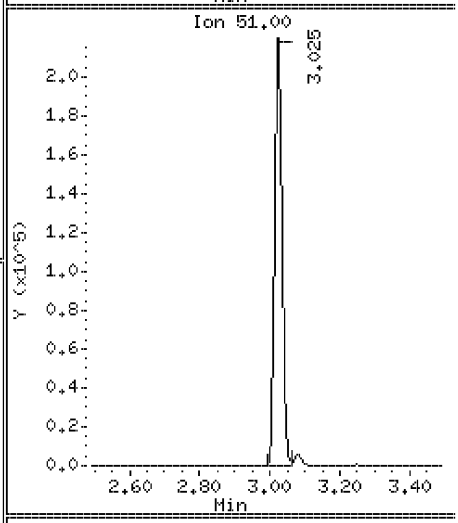


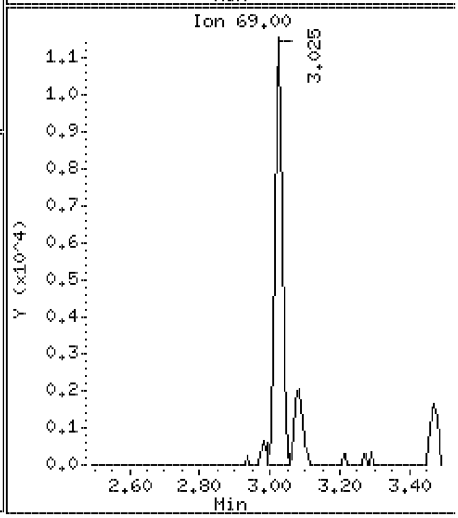












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

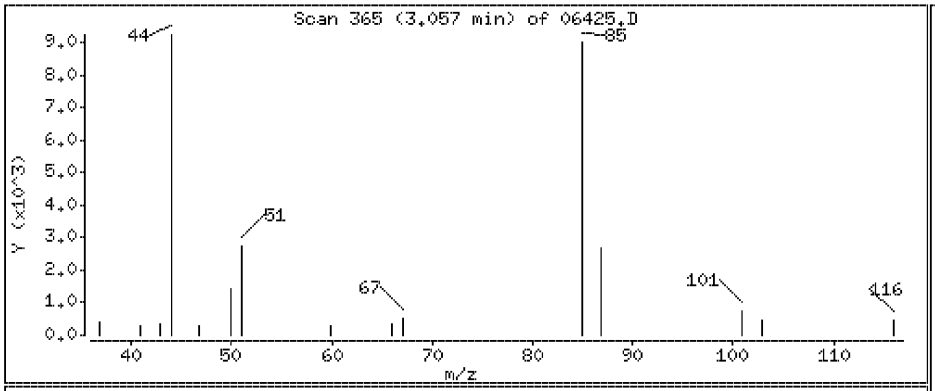
Operator: NCK

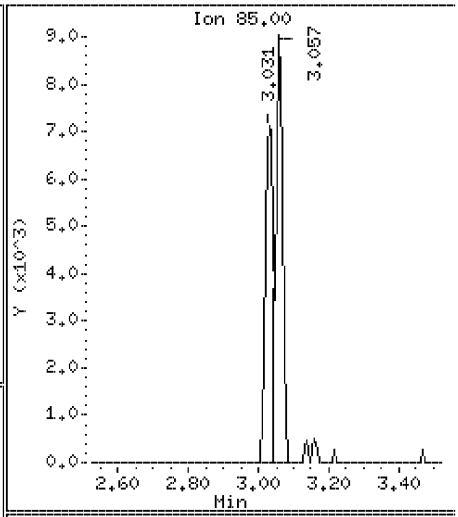
Column phase: J&W DB-5

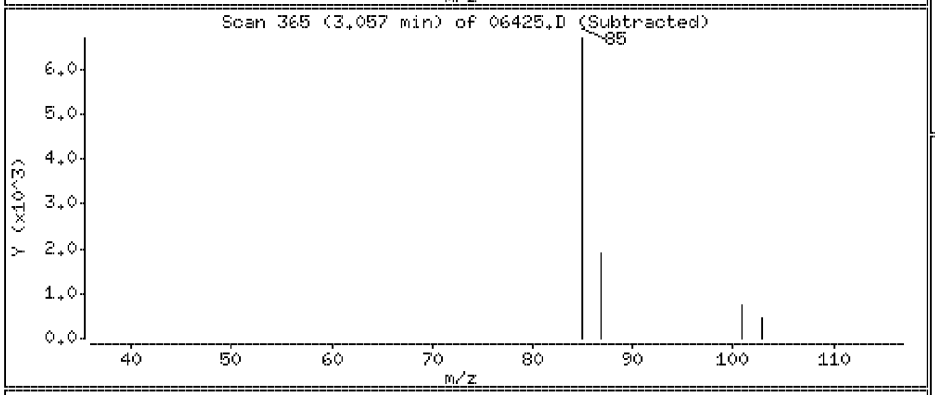
Column diameter: 0.32

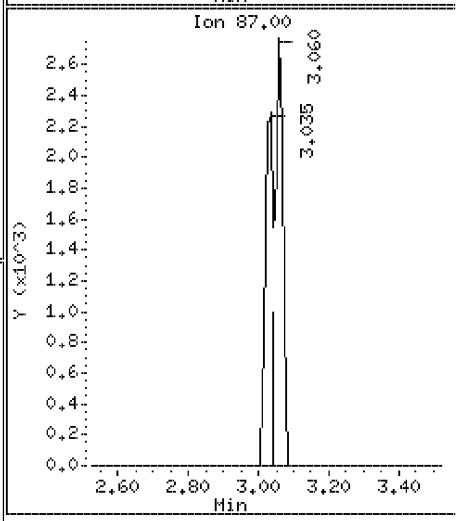
5 Dichlorodifluoromethane

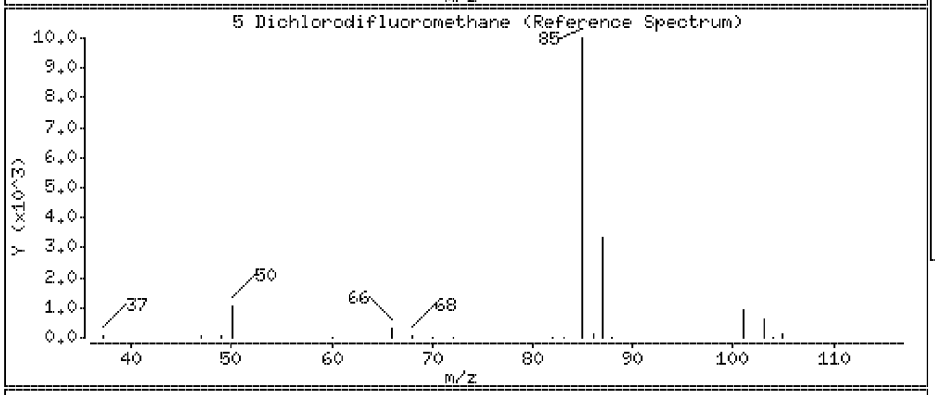
Concentration: 0.386 ppbv

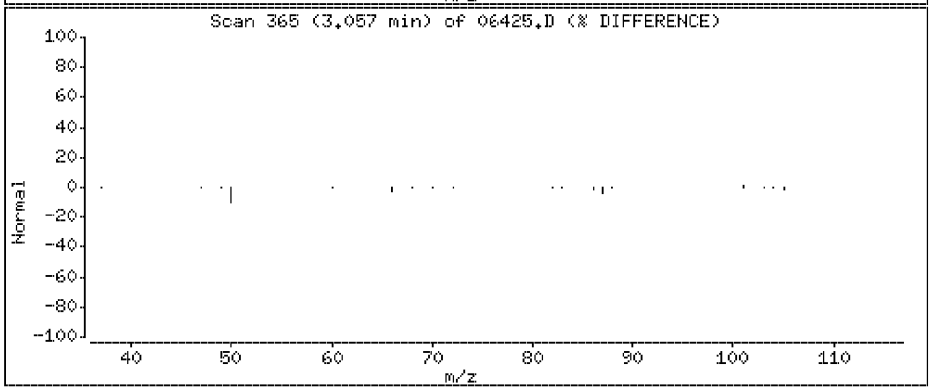












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

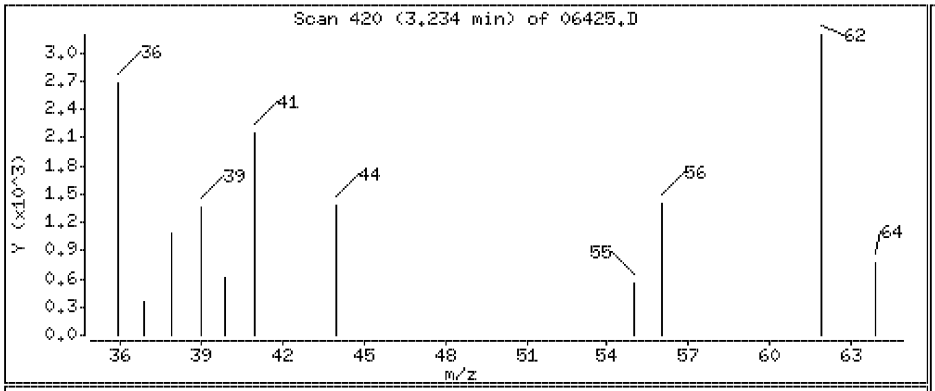
Operator: NCK

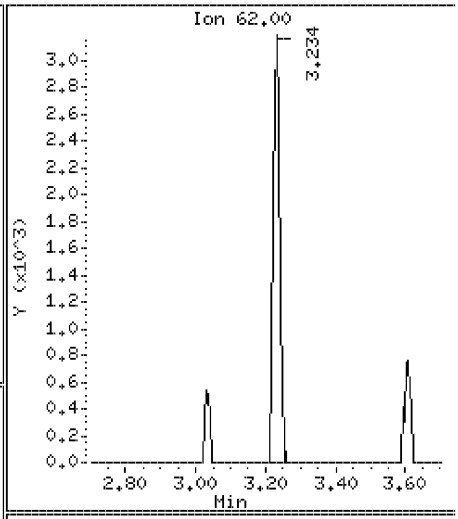
Column phase: J&W DB-5

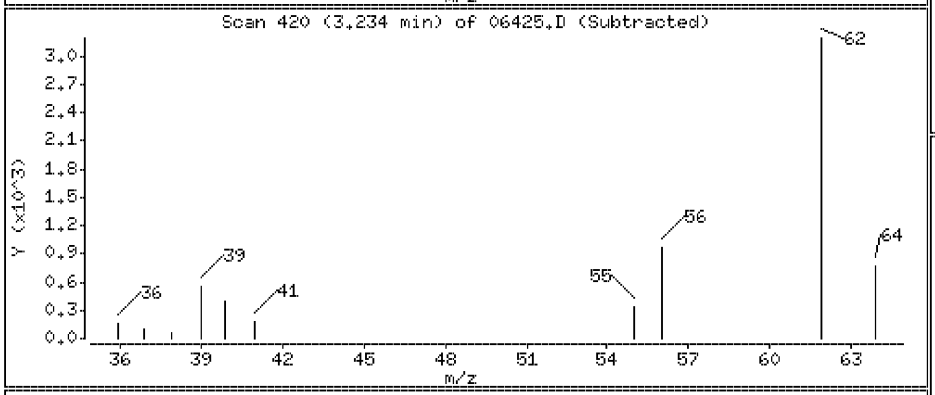
Column diameter: 0.32

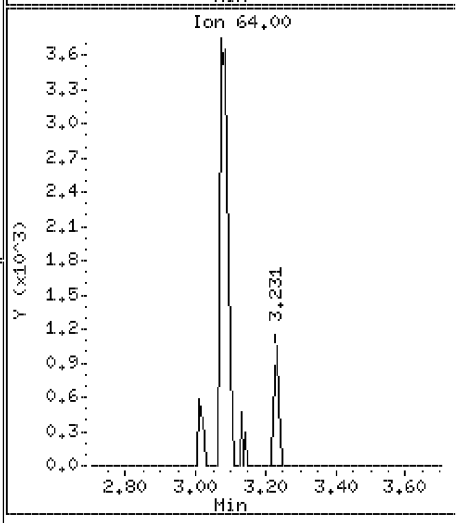
8 Vinyl chloride

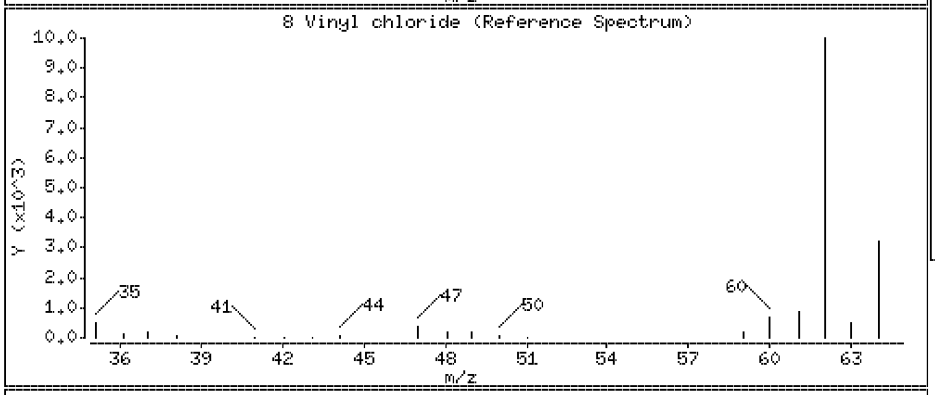
Concentration: 0.484 ppbv

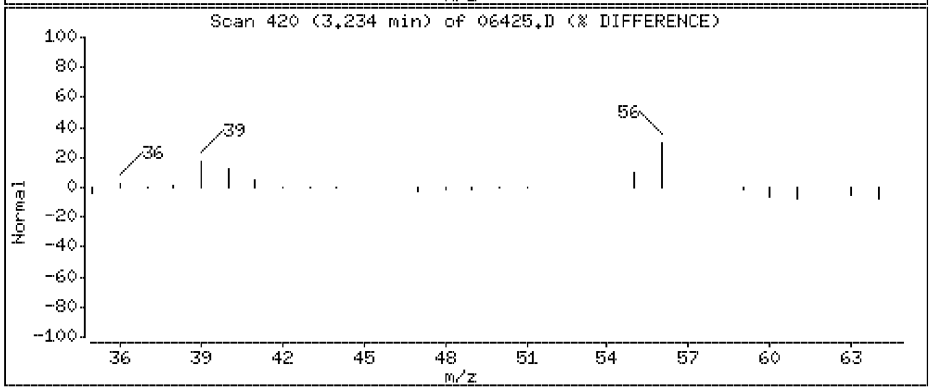












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

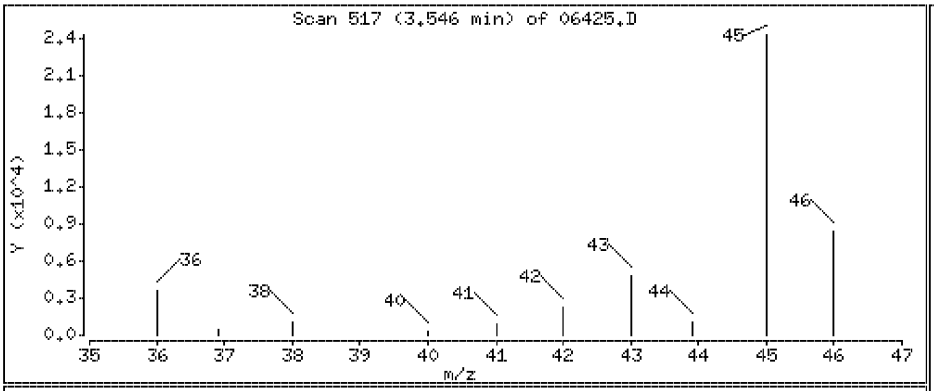
Operator: NCK

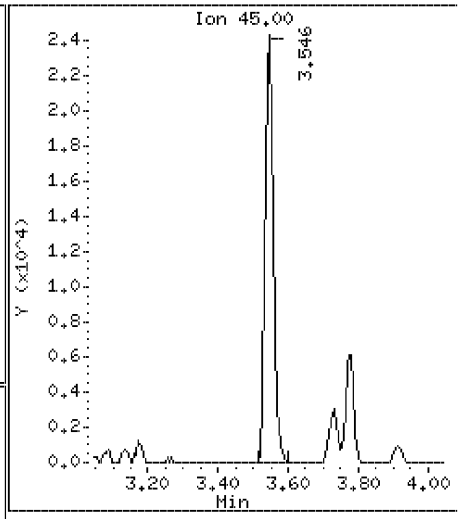
Column phase: J&W DB-5

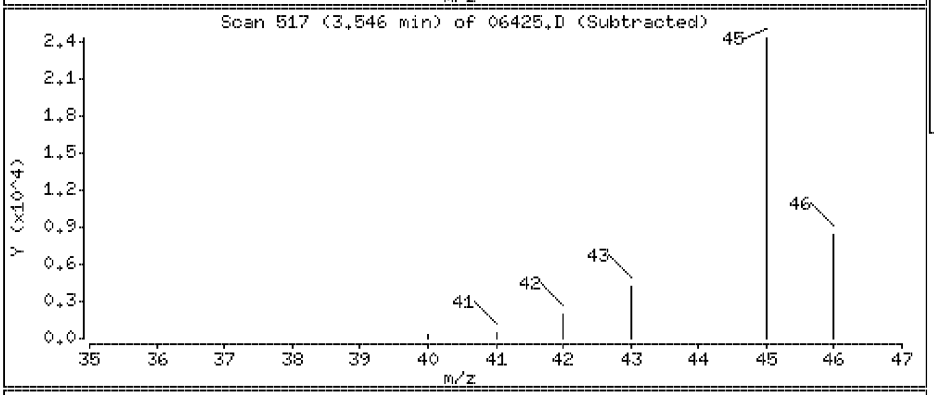
Column diameter: 0.32

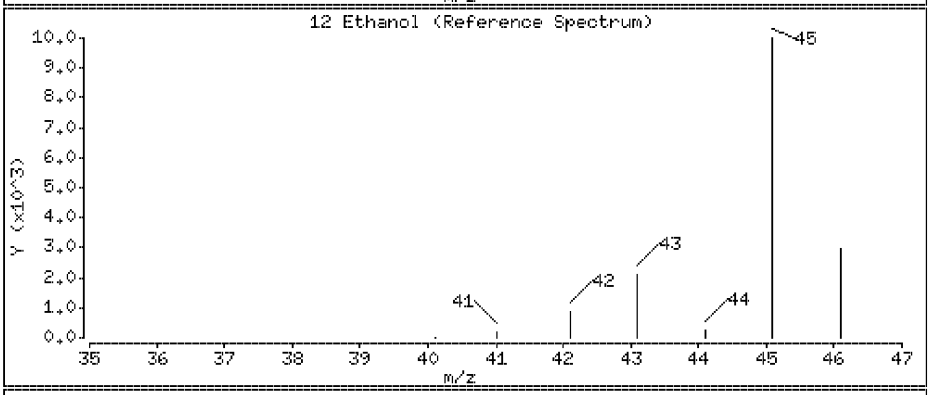
12 Ethanol

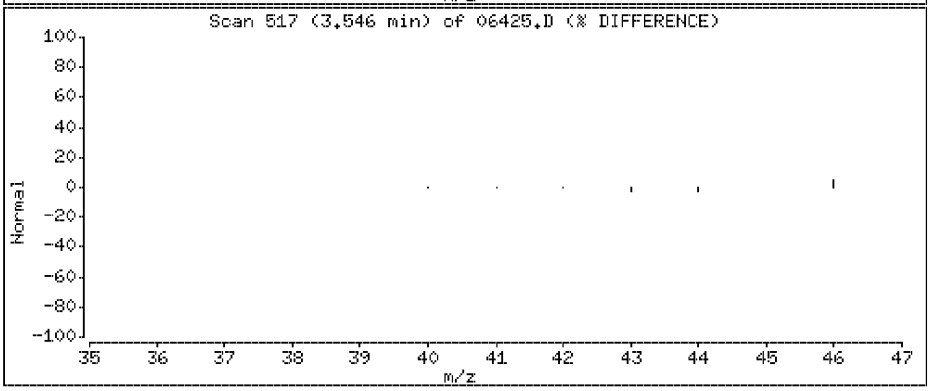
Concentration: 13.5 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

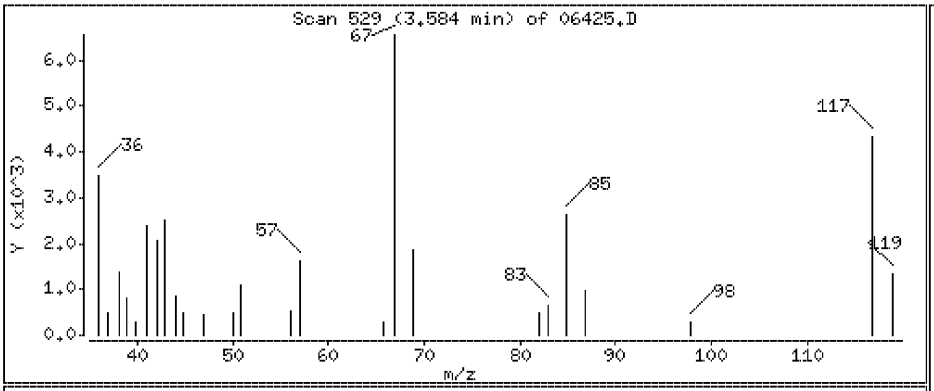
Operator: NCK

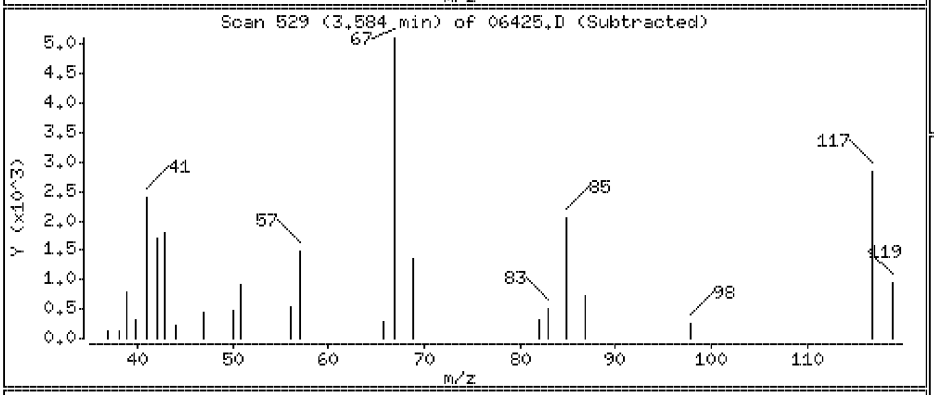
Column phase: J&W DB-5

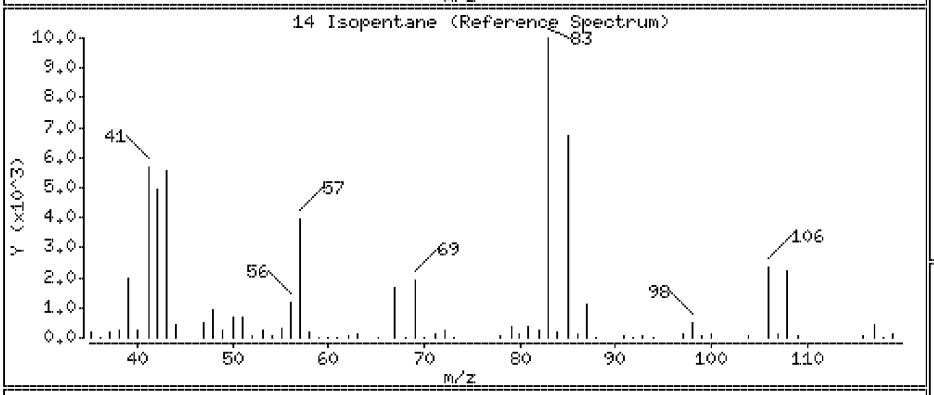
Column diameter: 0.32

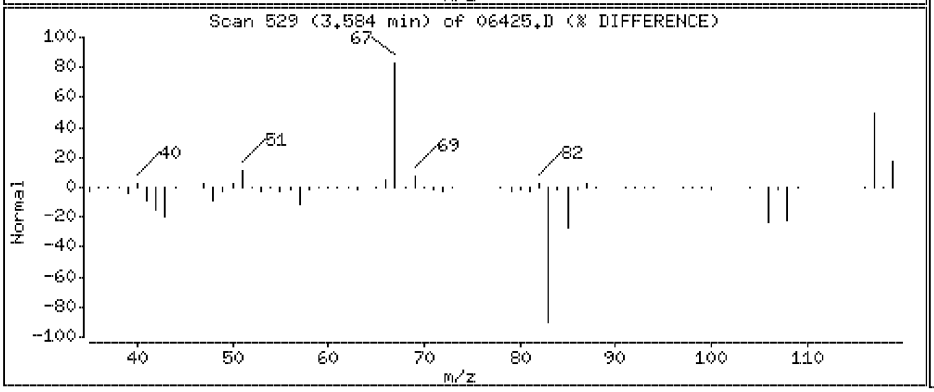
14 Isopentane

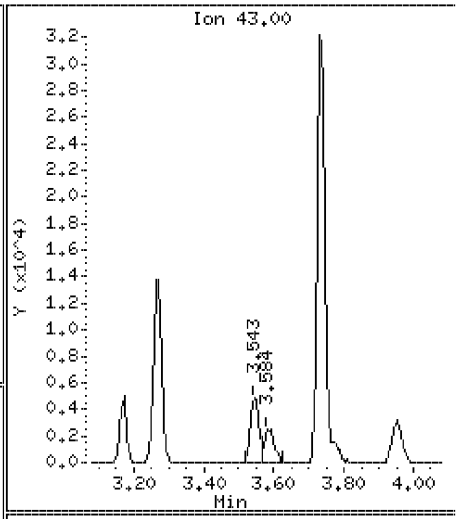
Concentration: 0.363 ppbv

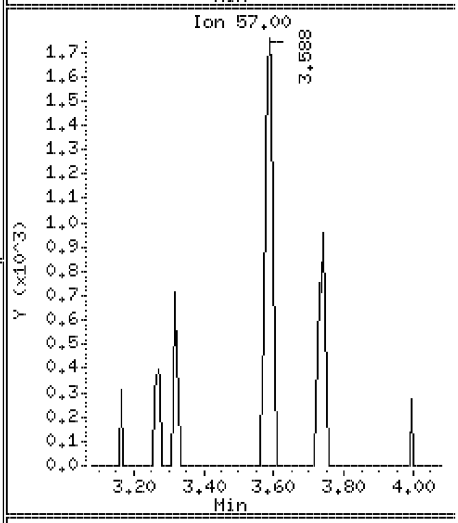


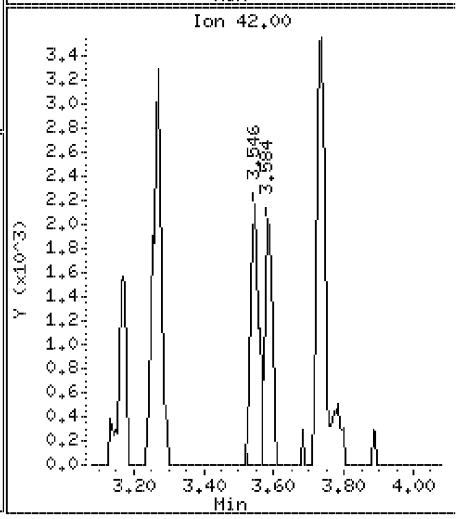












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

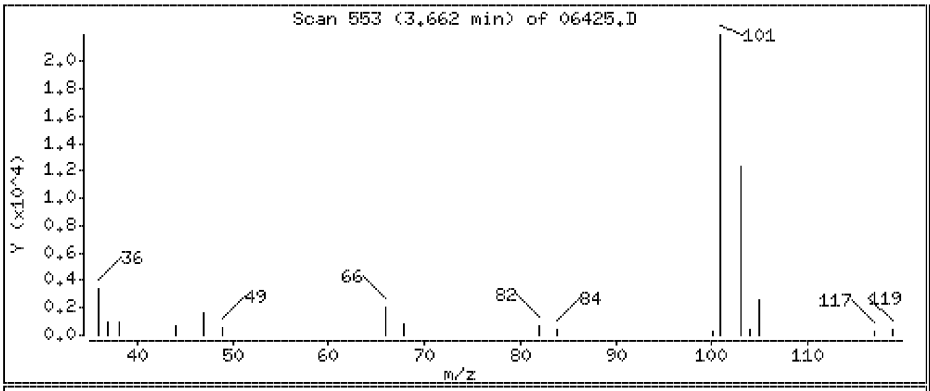
Operator: NCK

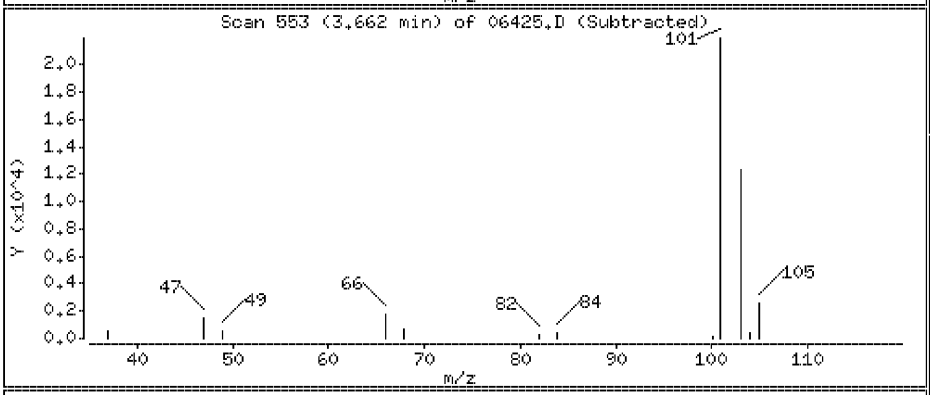
Column phase: J&W DB-5

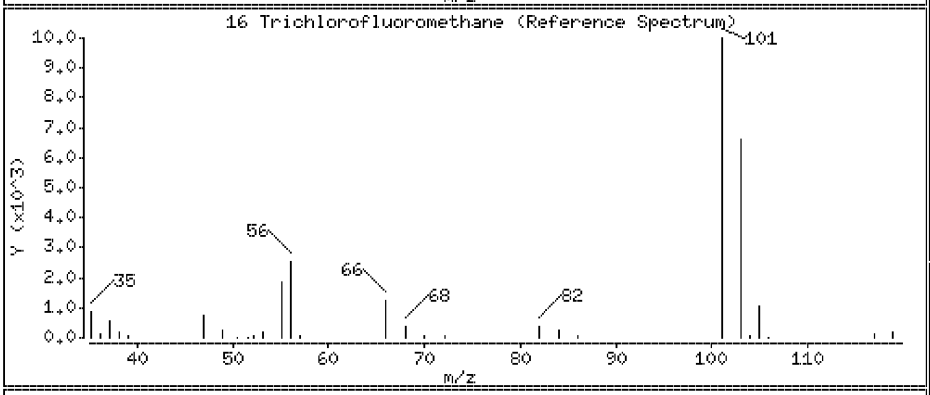
Column diameter: 0.32

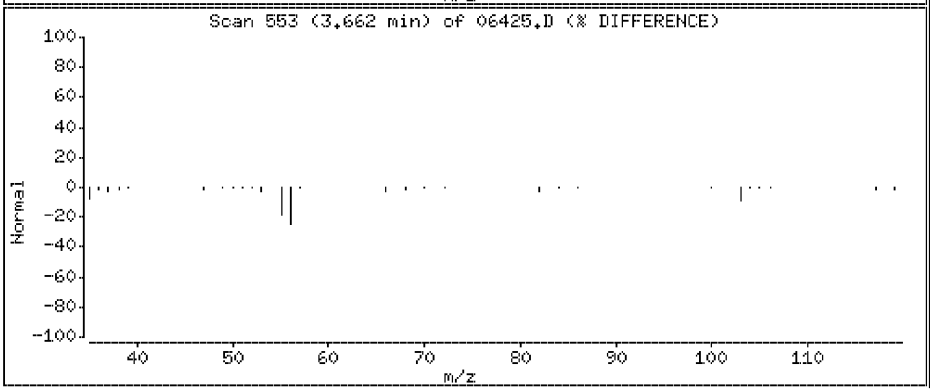
16 Trichlorofluoromethane

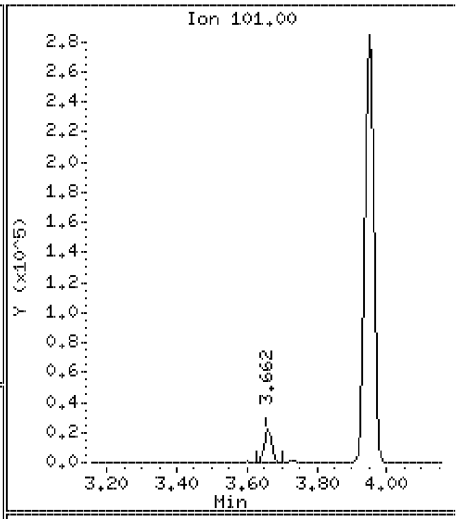
Concentration: 1.47 ppbv

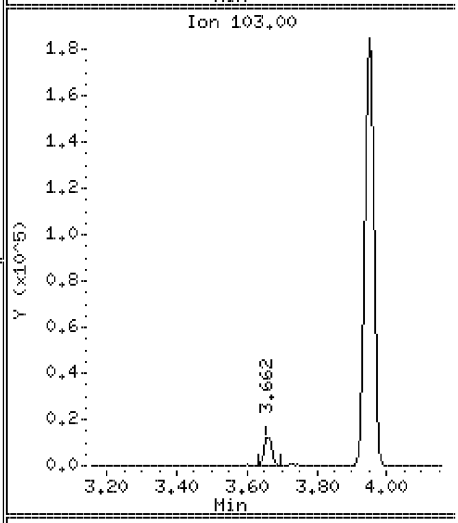


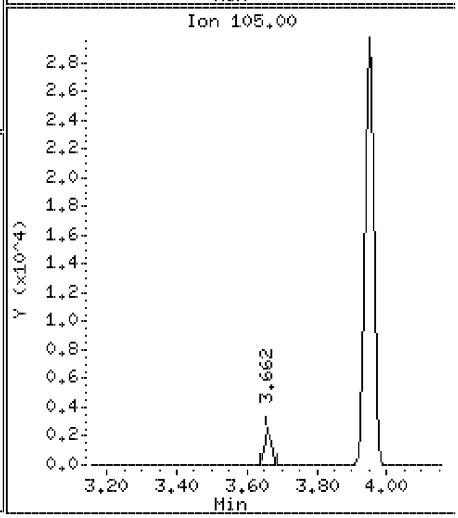












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

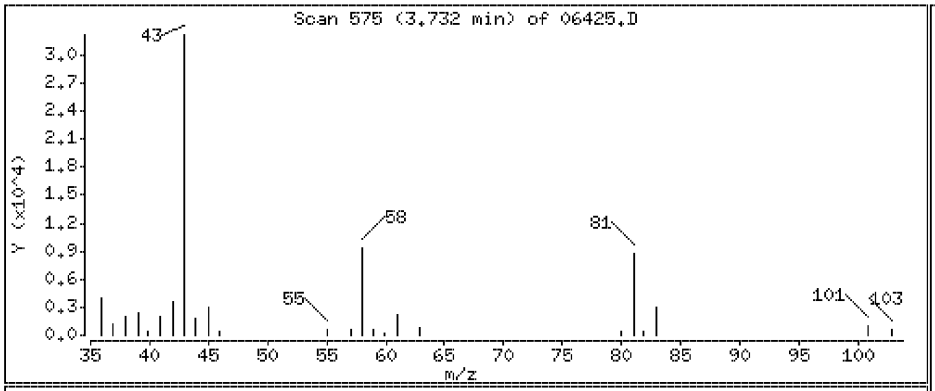
Operator: NCK

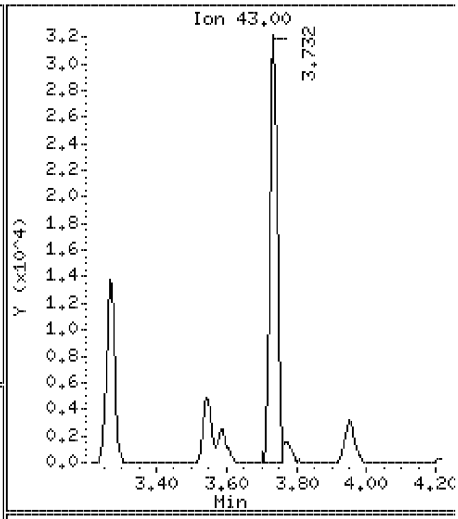
Column phase: J&W DB-5

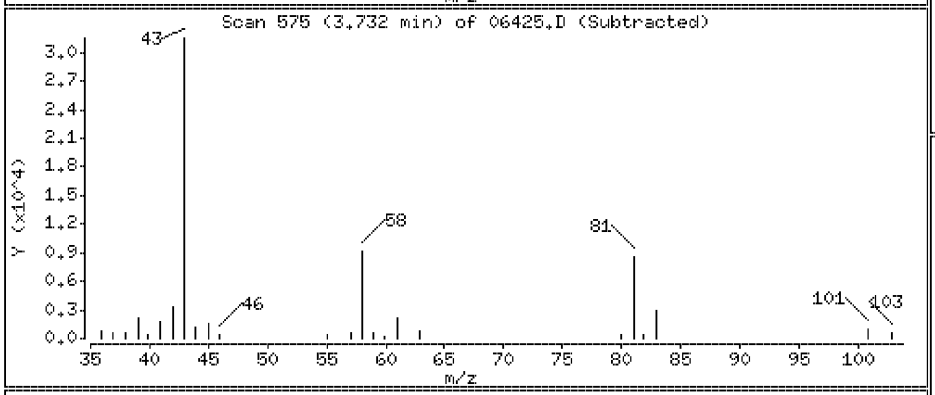
Column diameter: 0.32

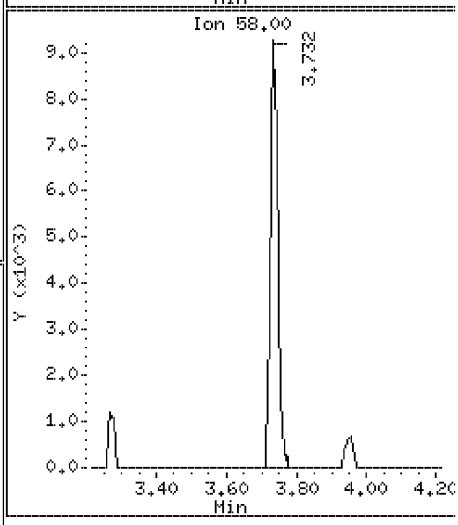
18 Acetone

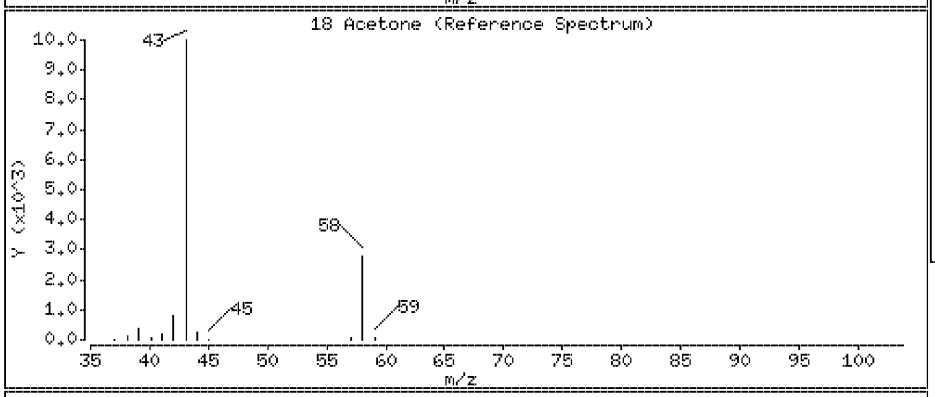
Concentration: 3.77 ppbv

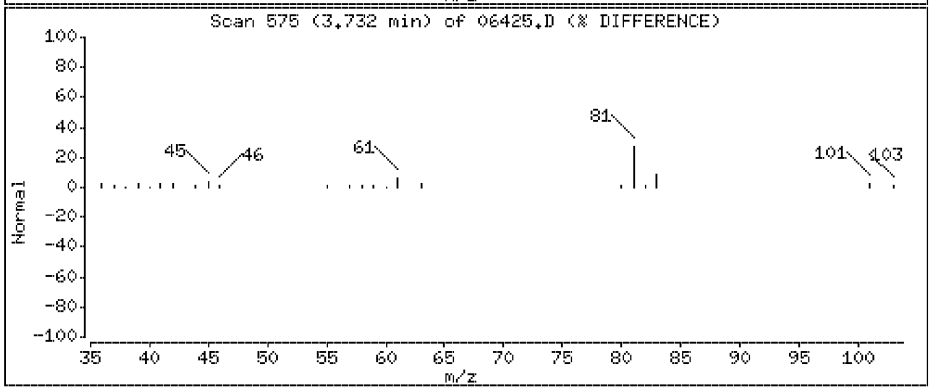












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

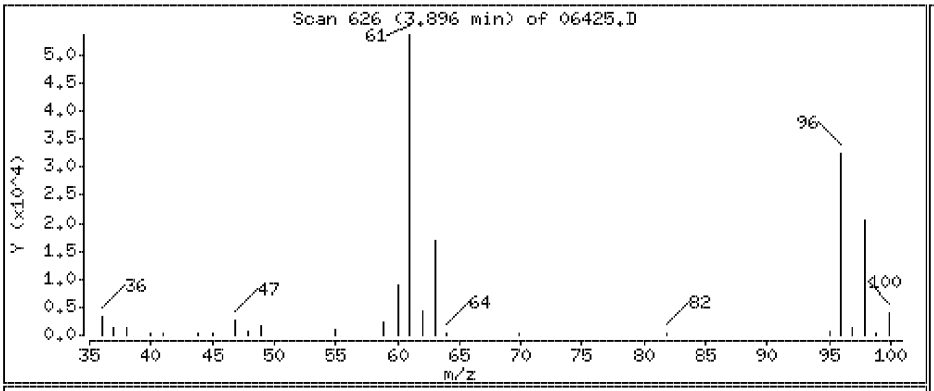
Operator: NCK

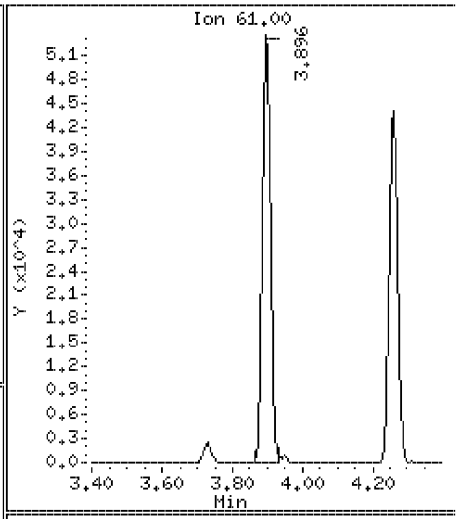
Column phase: J&W DB-5

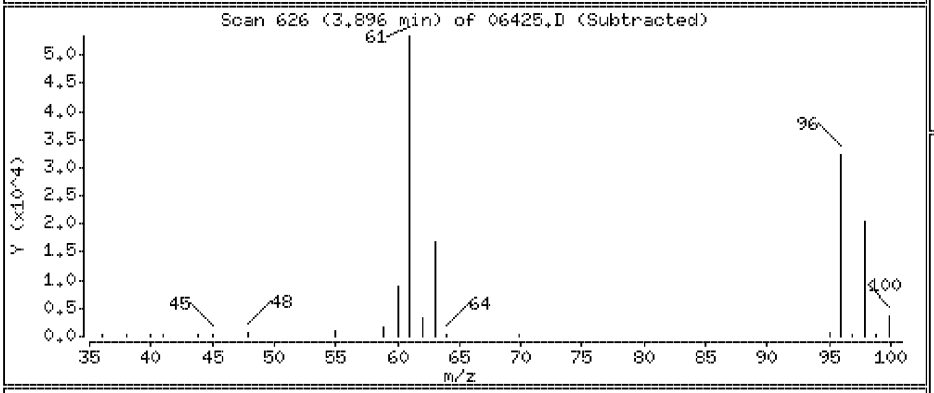
Column diameter: 0.32

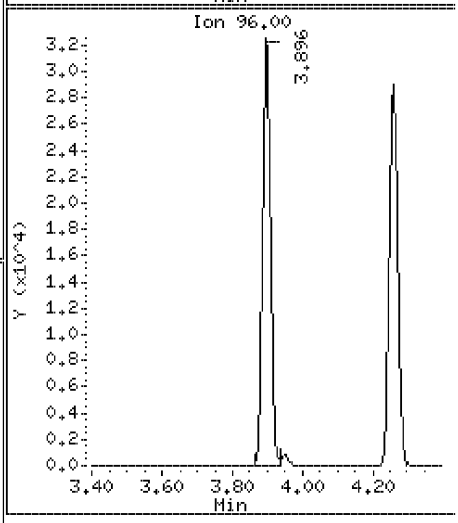
20 1,1-Dichloroethene

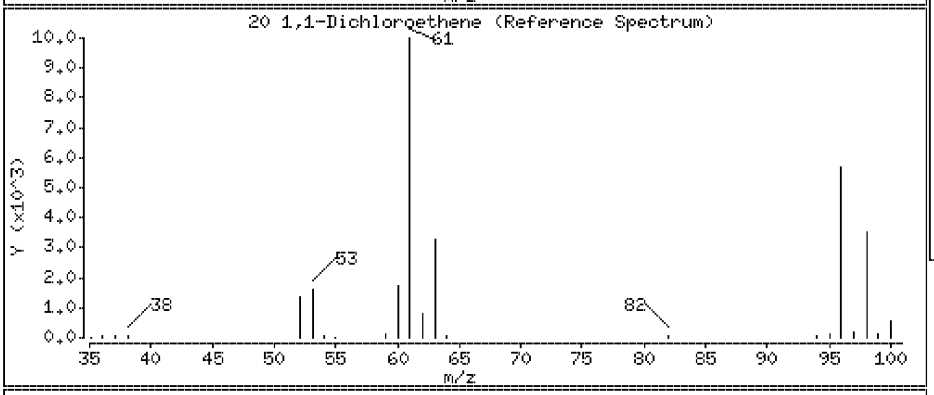
Concentration: 6.90 ppbv

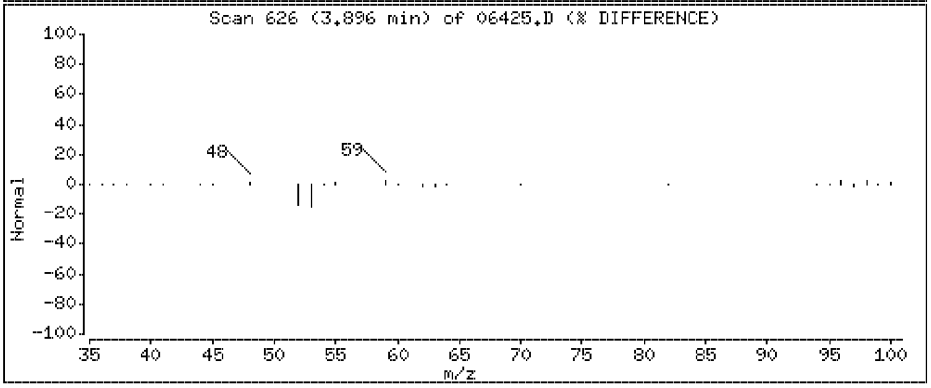












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

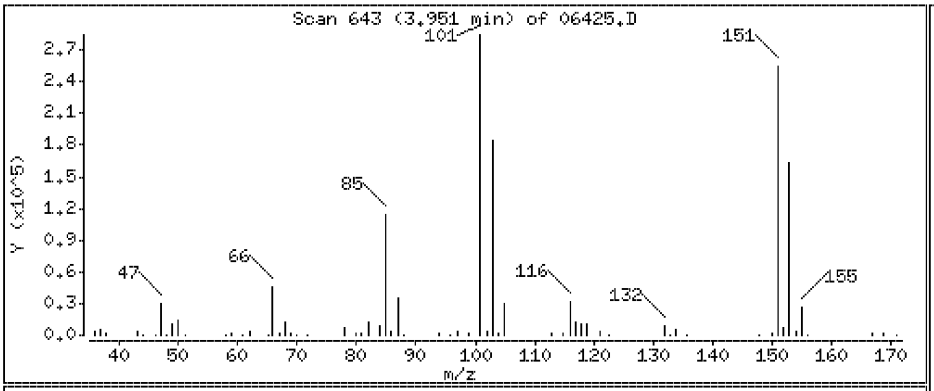
Operator: NCK

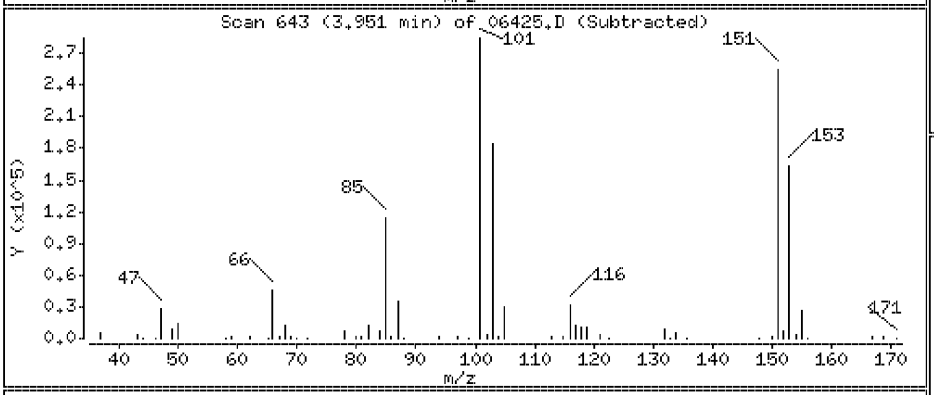
Column phase: J&W DB-5

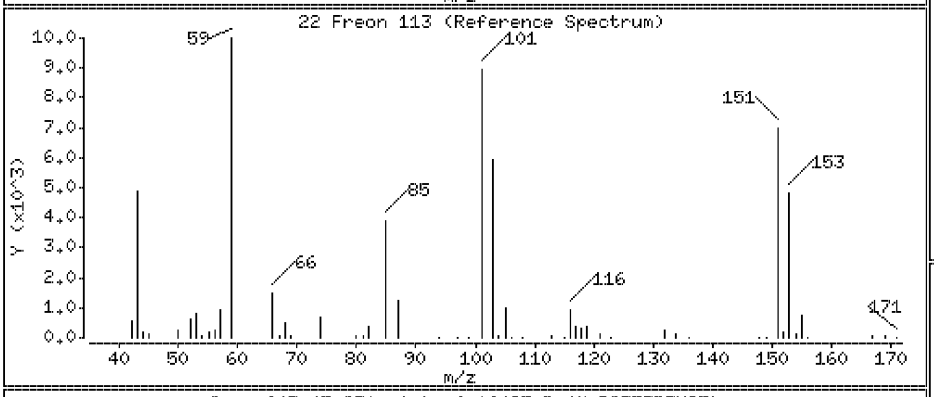
Column diameter: 0.32

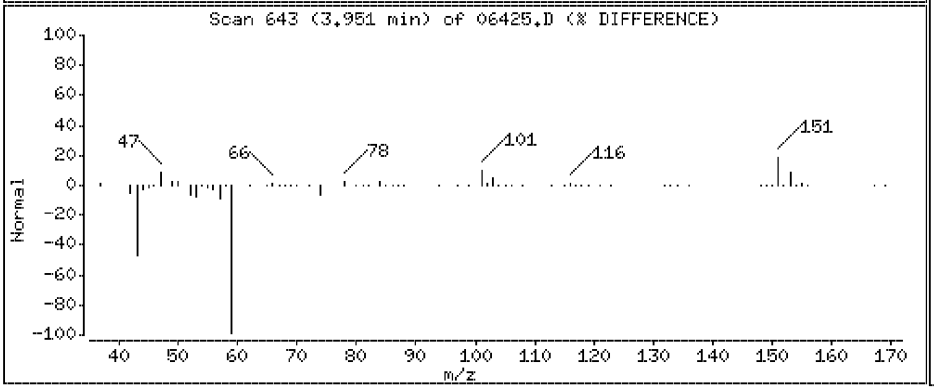
22 Freon 113

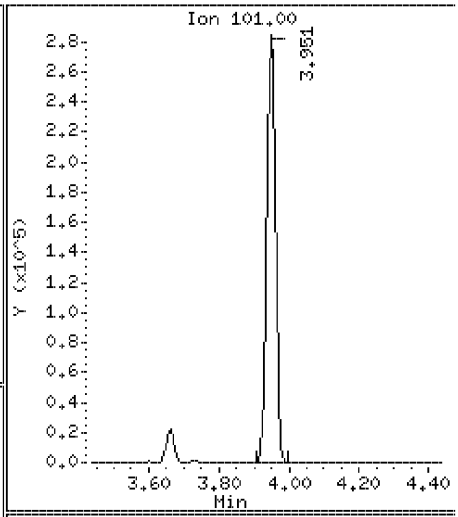
Concentration: 30.7 ppbv

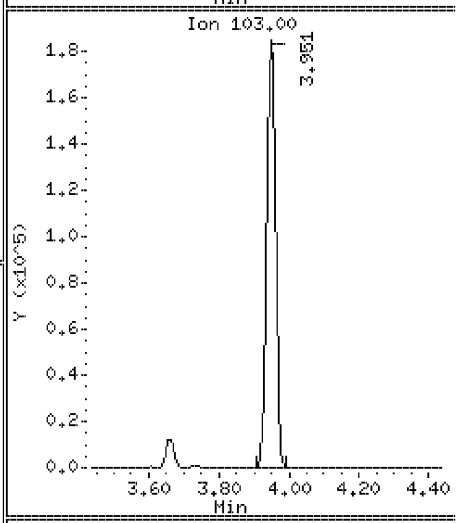


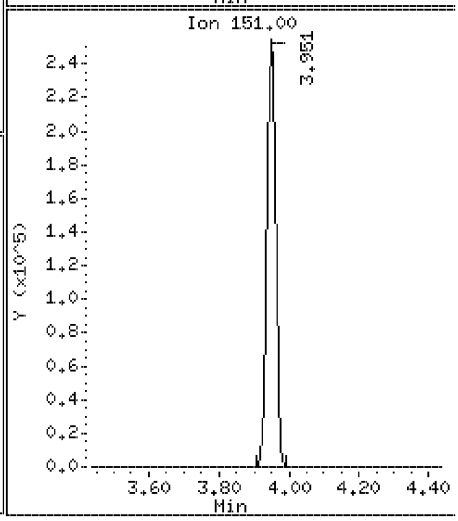












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

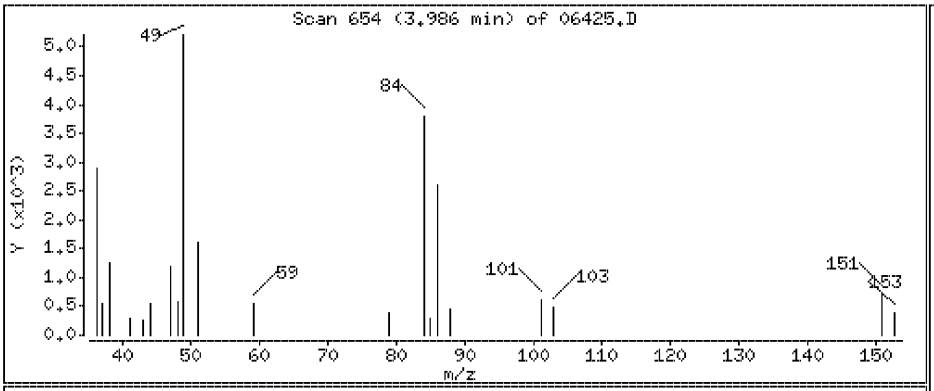
Operator: NCK

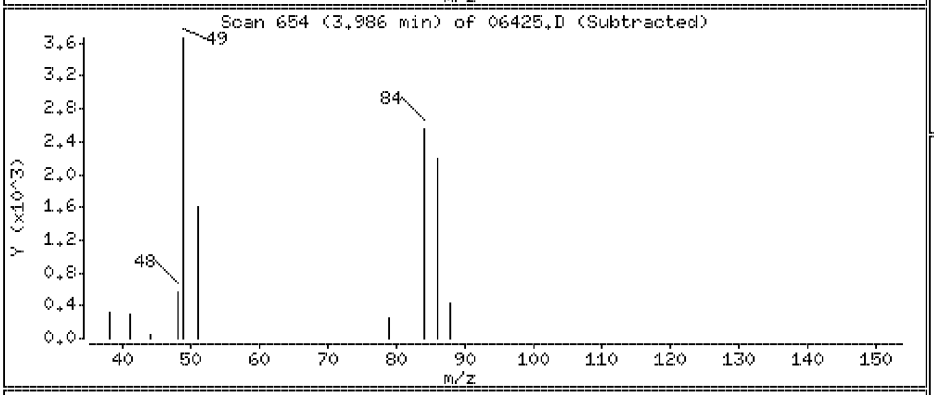
Column phase: J&W DB-5

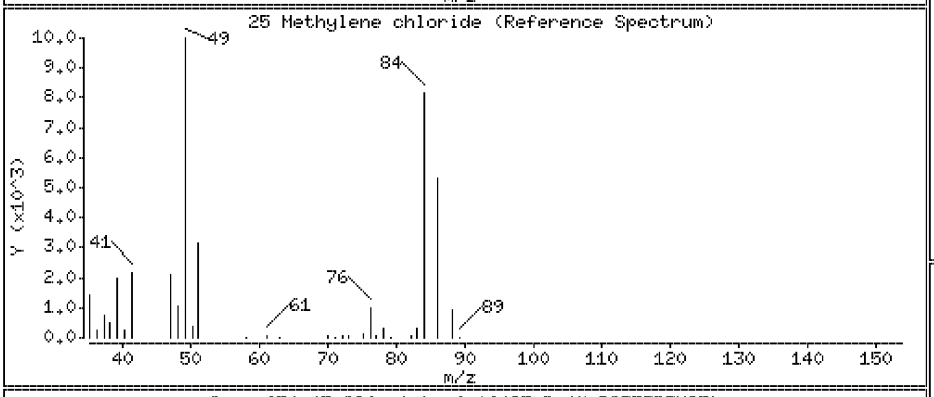
Column diameter: 0.32

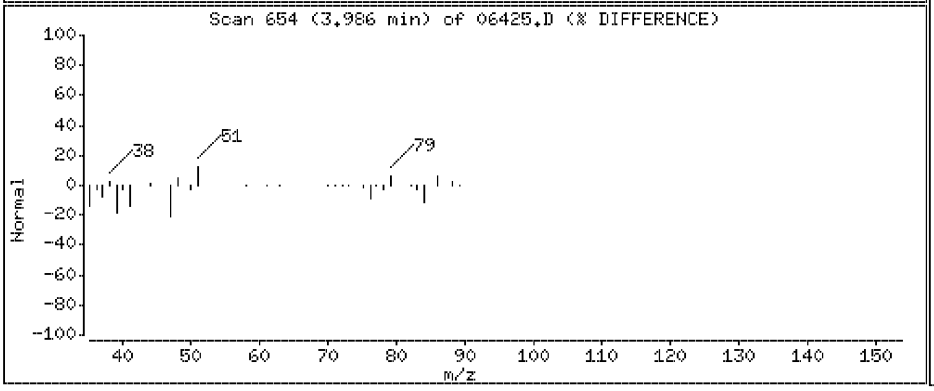
25 Methylene chloride

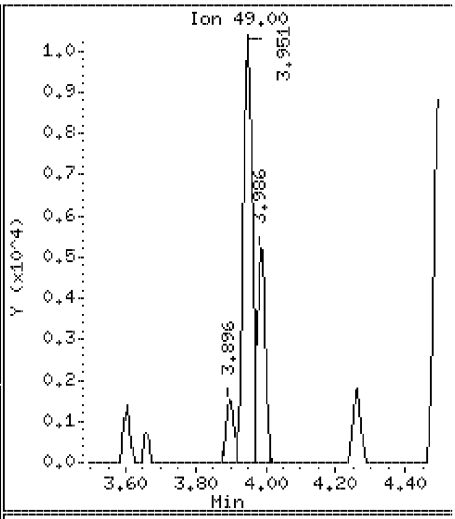
Concentration: 0.988 ppbv

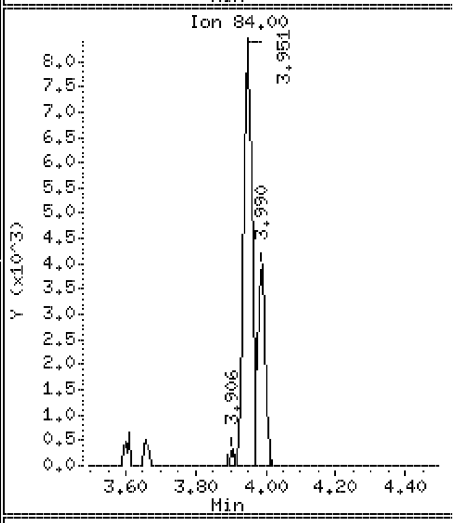


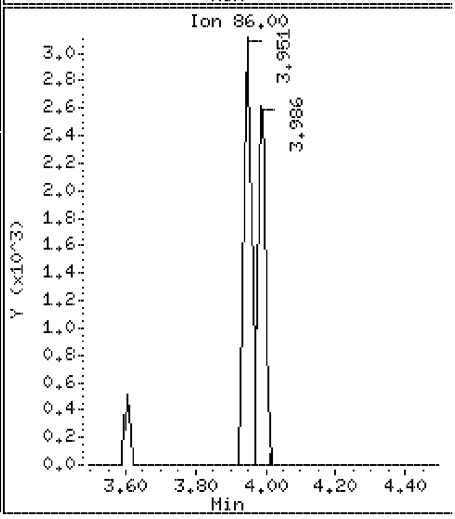












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

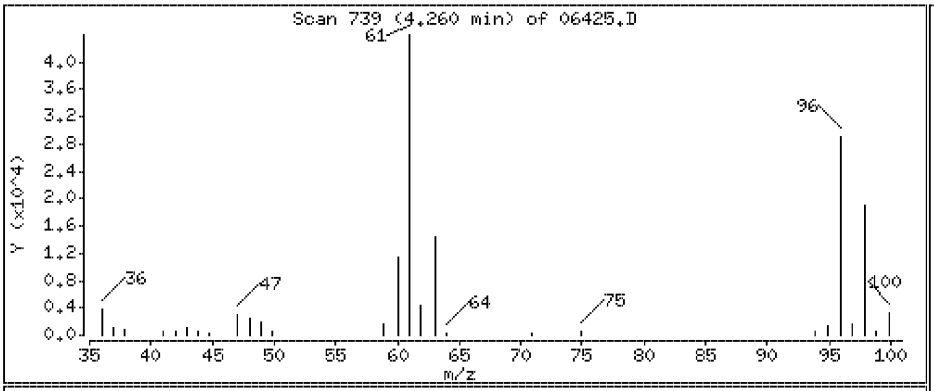
Operator: NCK

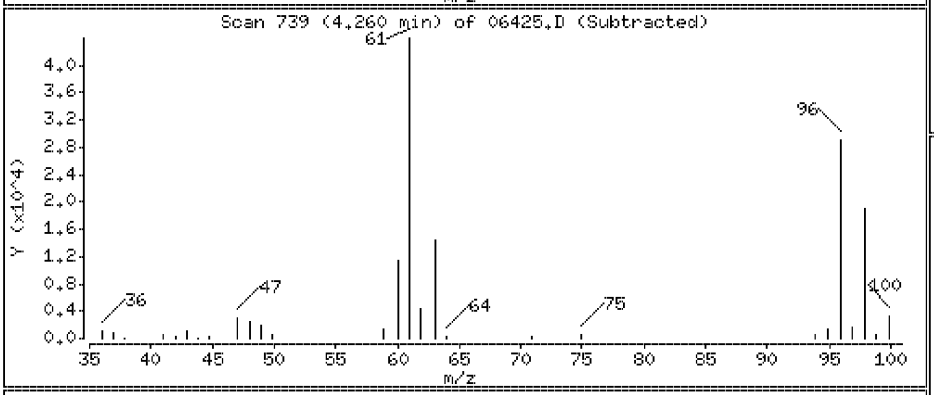
Column phase: J&W DB-5

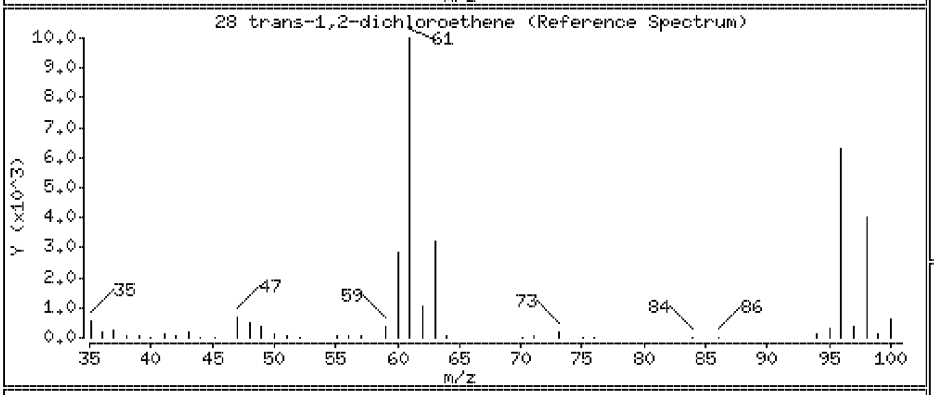
Column diameter: 0.32

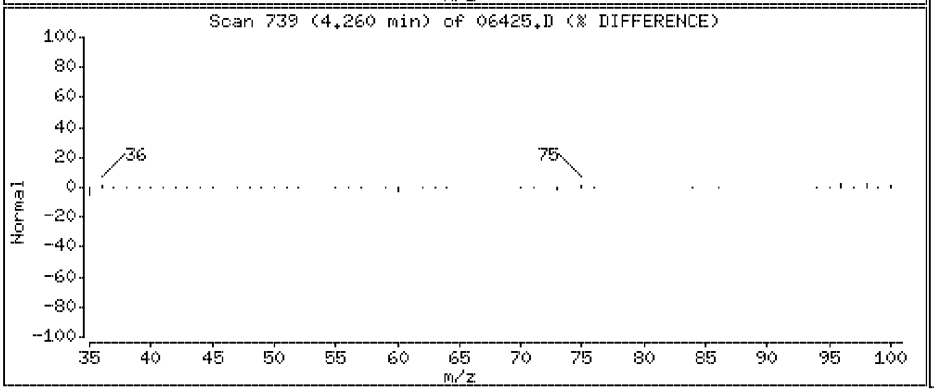
28 trans-1,2-dichloroethene

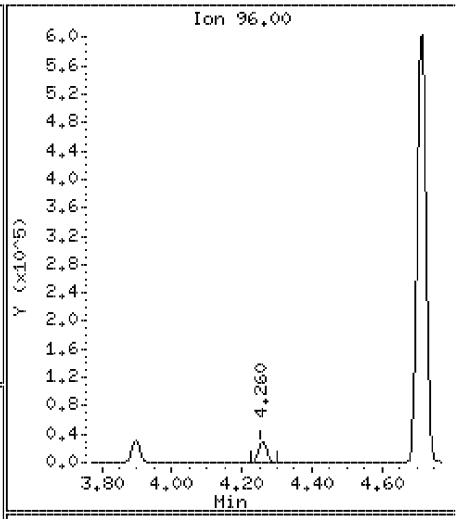
Concentration: 6.89 ppbv

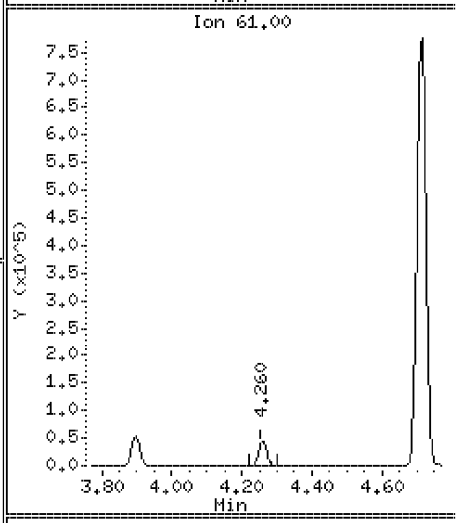


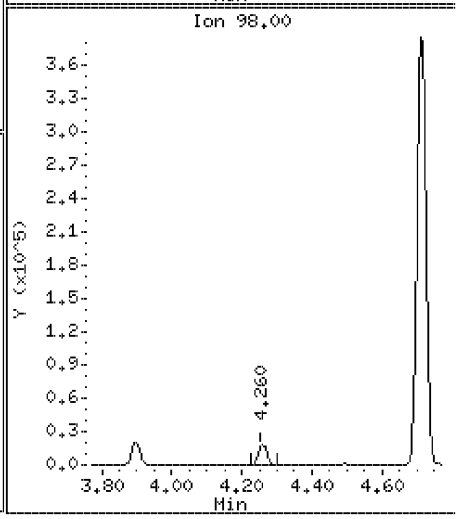












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

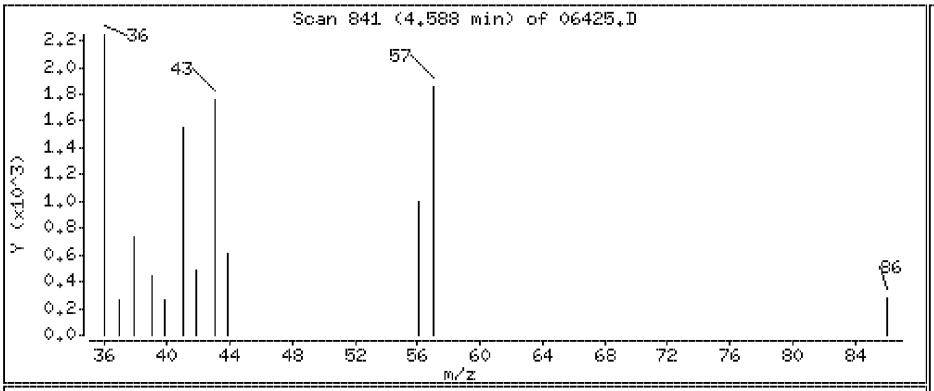
Operator: NCK

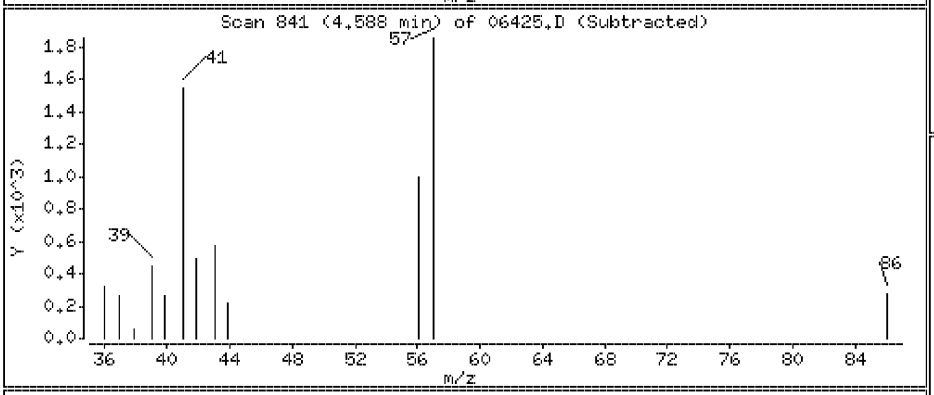
Column phase: J&W DB-5

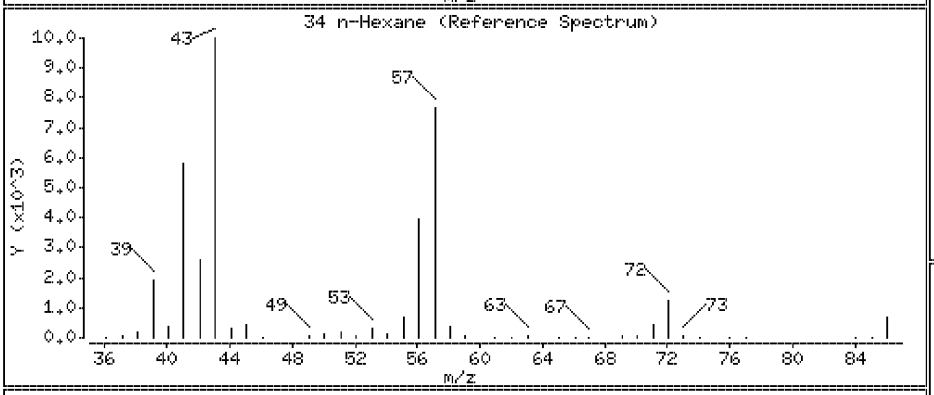
Column diameter: 0.32

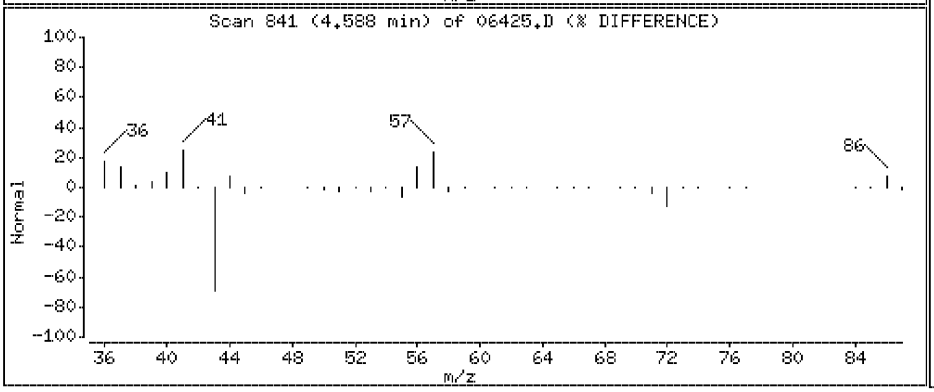
34 n-Hexane

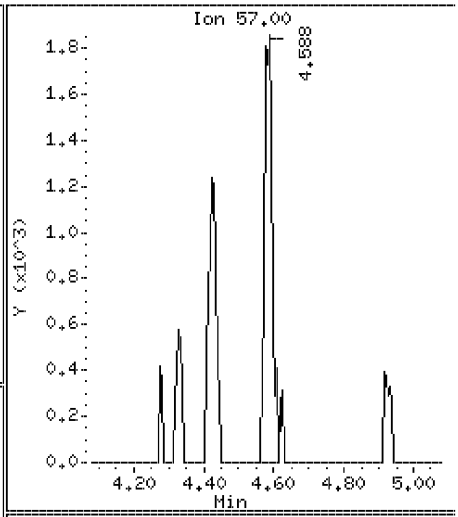
Concentration: 0.231 ppbv

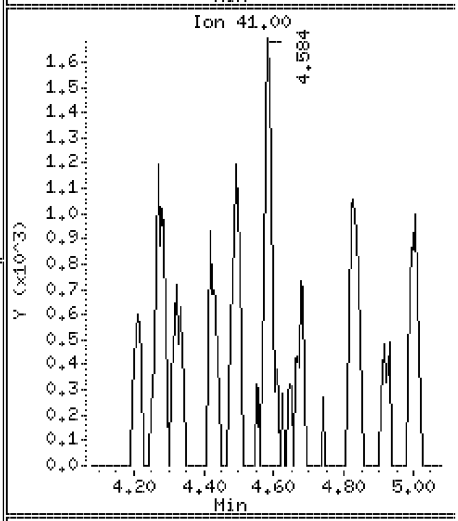


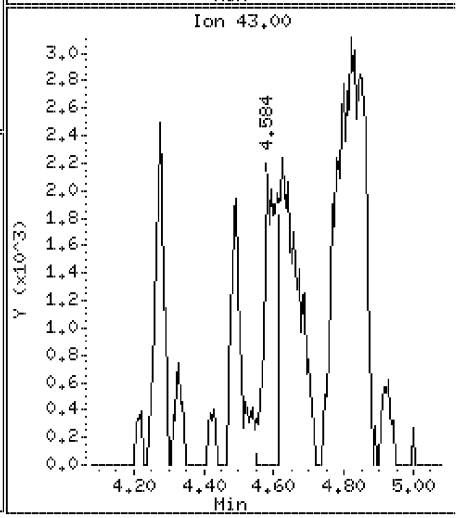












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

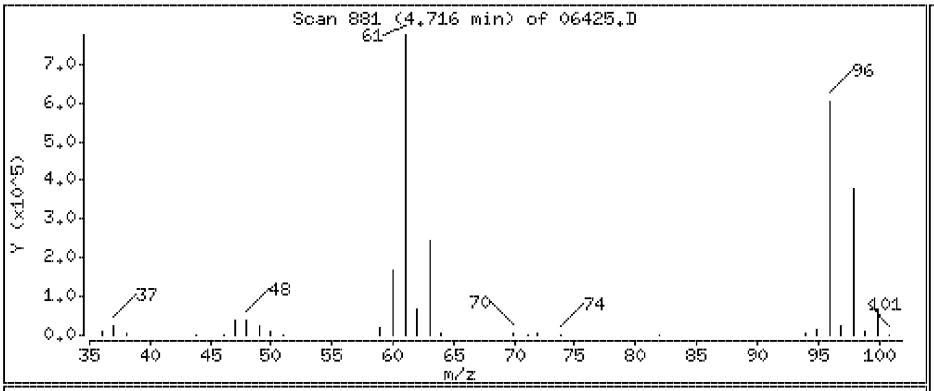
Operator: NCK

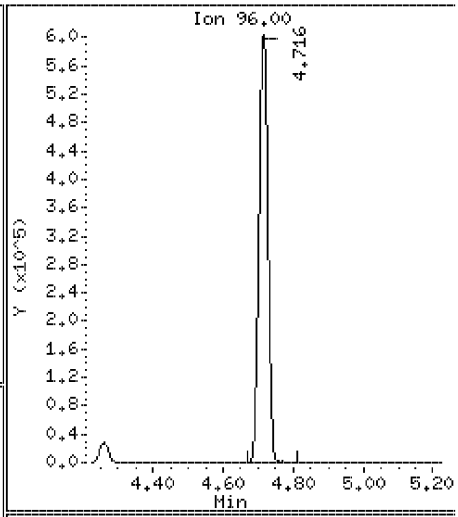
Column phase: J&W DB-5

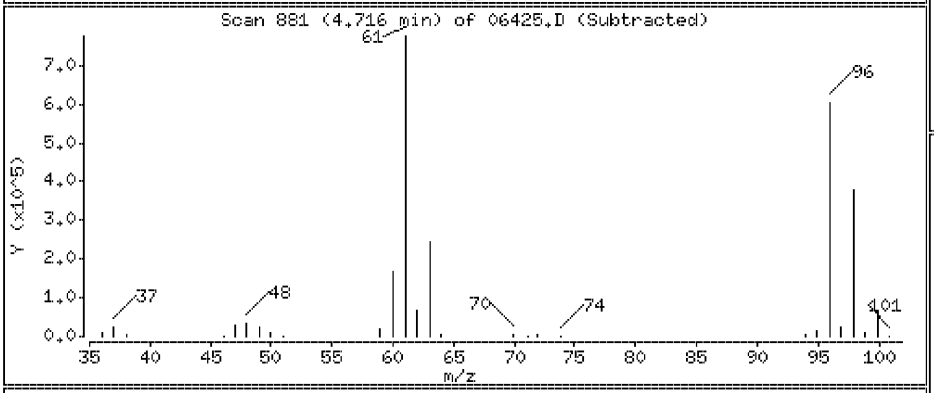
Column diameter: 0.32

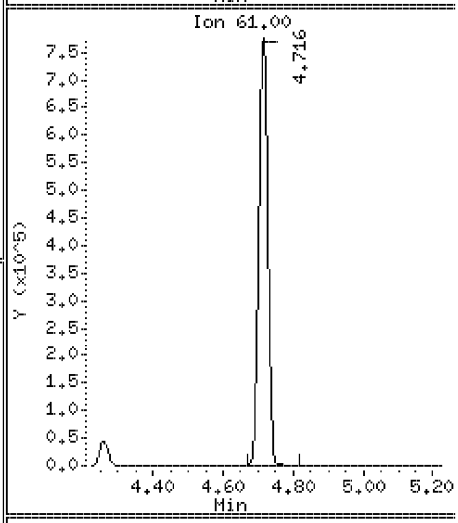
37 cis-1,2-Dichloroethene

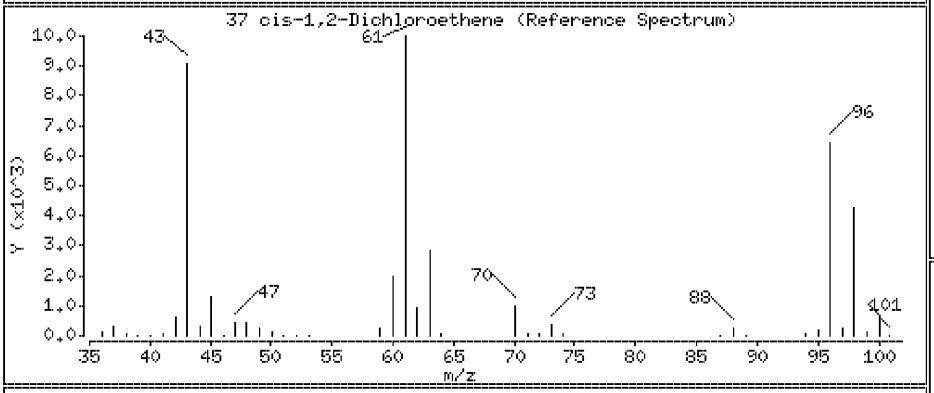
Concentration: 137 ppbv

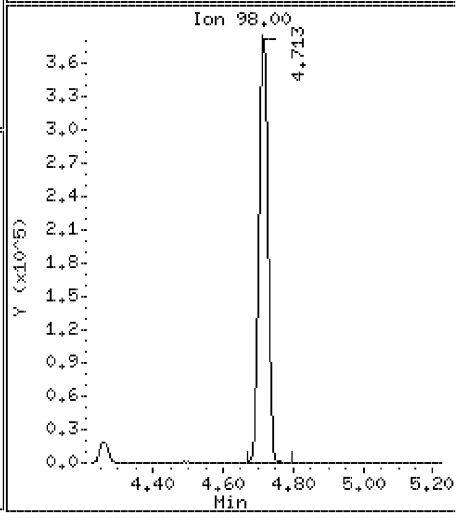


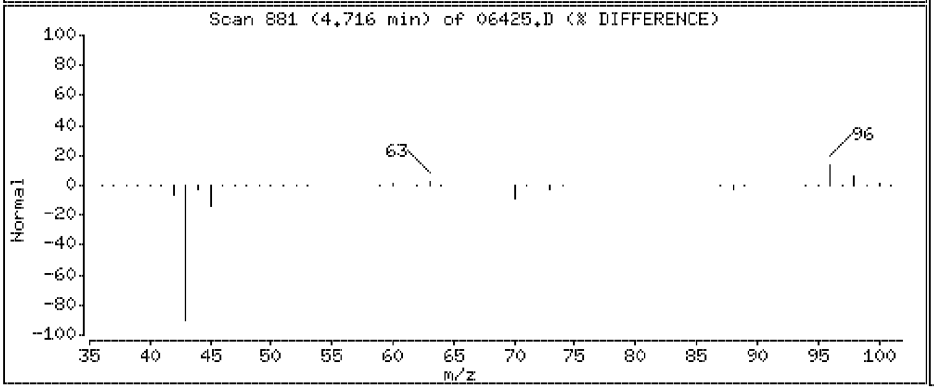












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

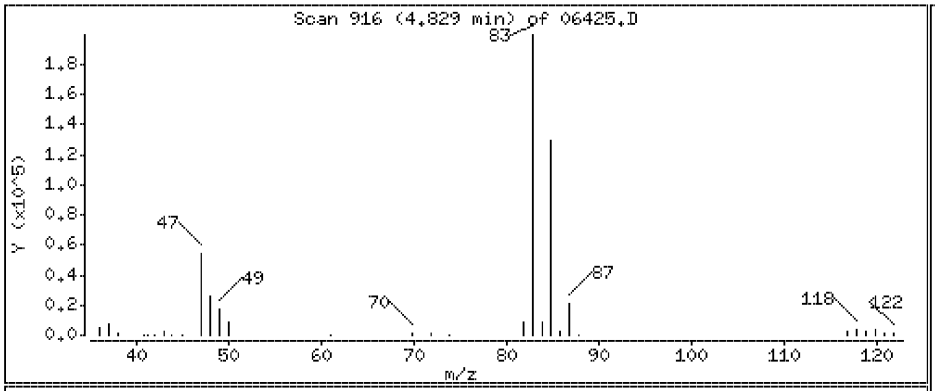
Operator: NCK

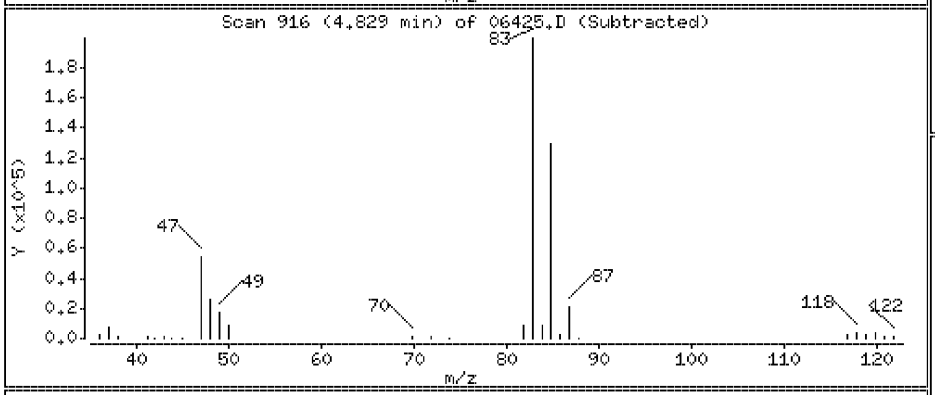
Column phase: J&W DB-5

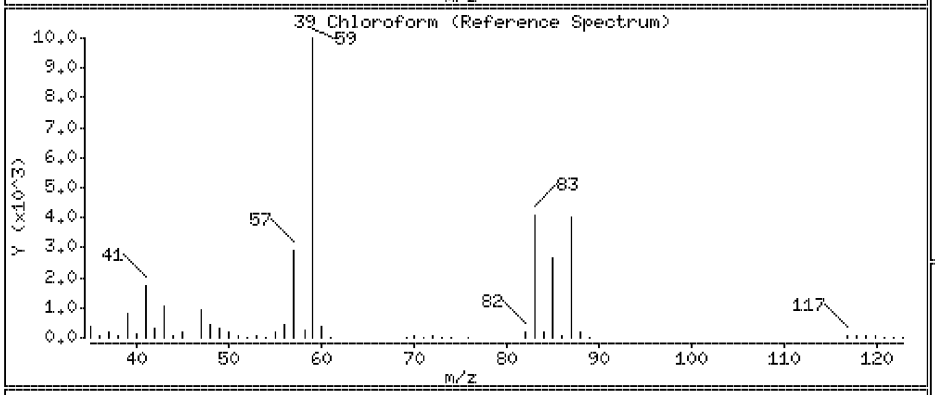
Column diameter: 0.32

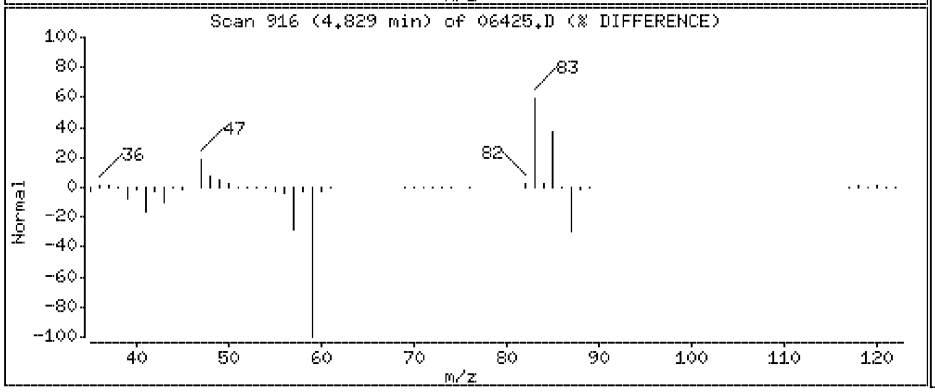
39 Chloroform

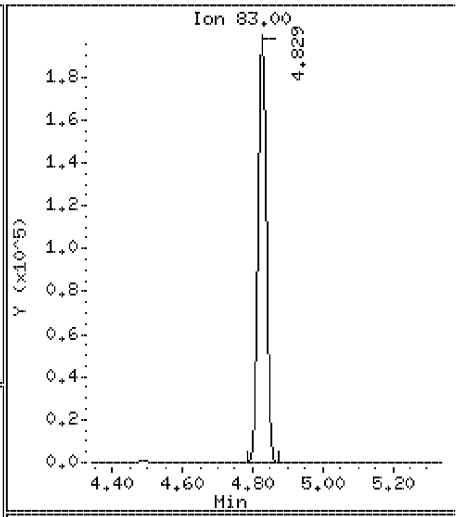
Concentration: 20.1 ppbv

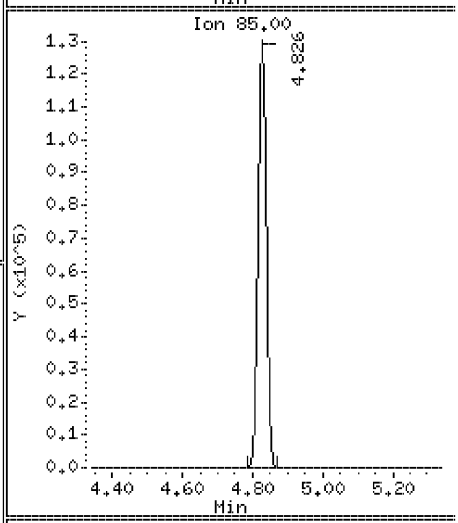


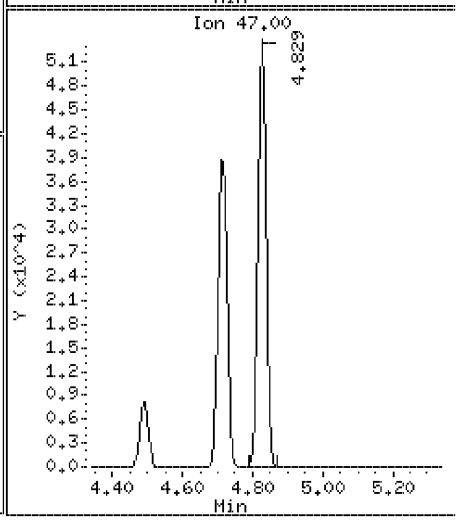












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

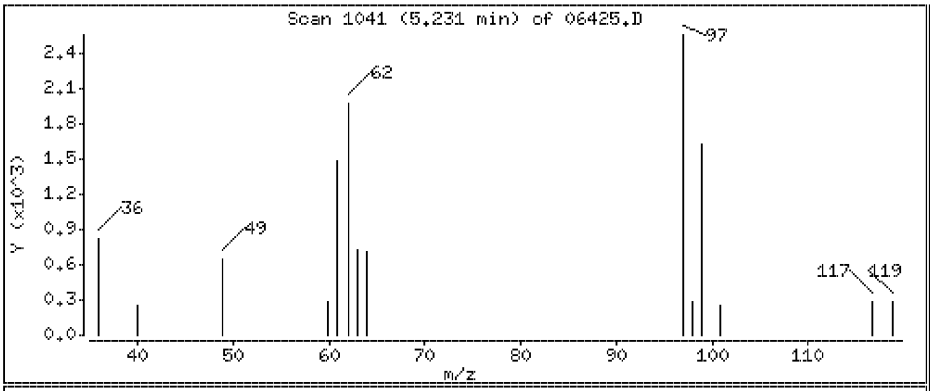
Operator: NCK

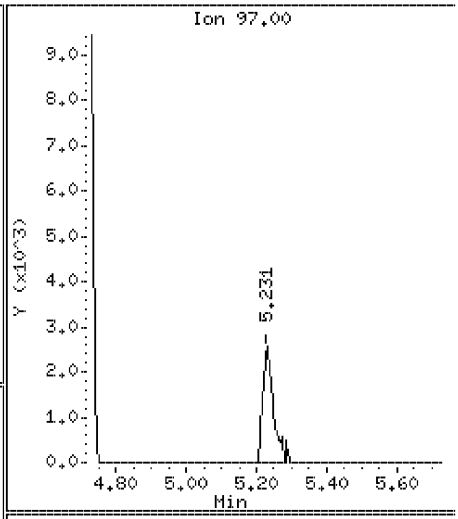
Column phase: J&W DB-5

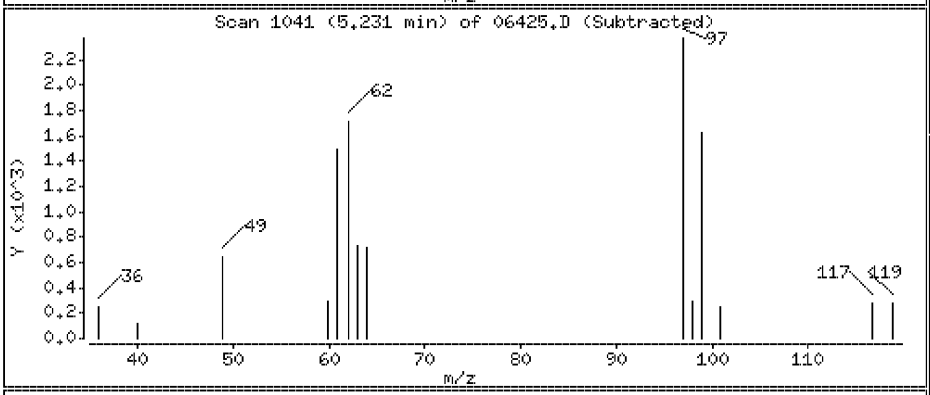
Column diameter: 0.32

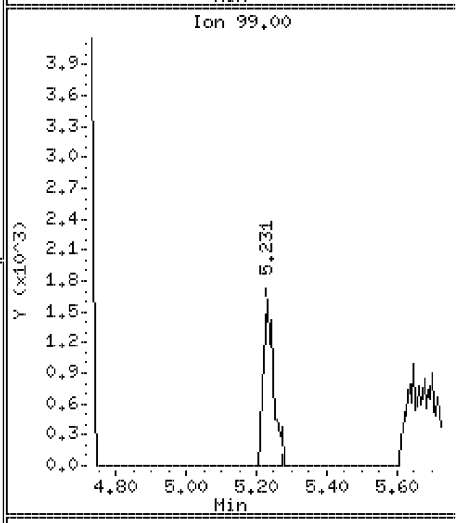
41 1,1,1-Trichloroethane

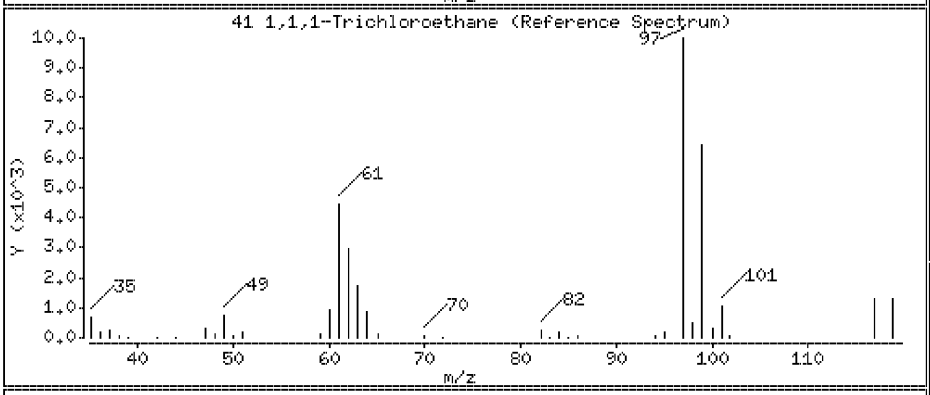
Concentration: 0.277 ppbv

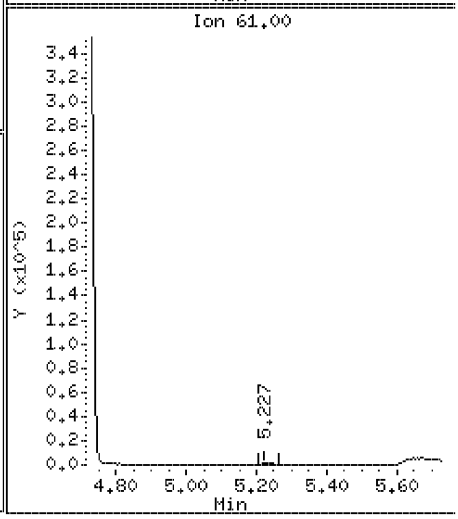


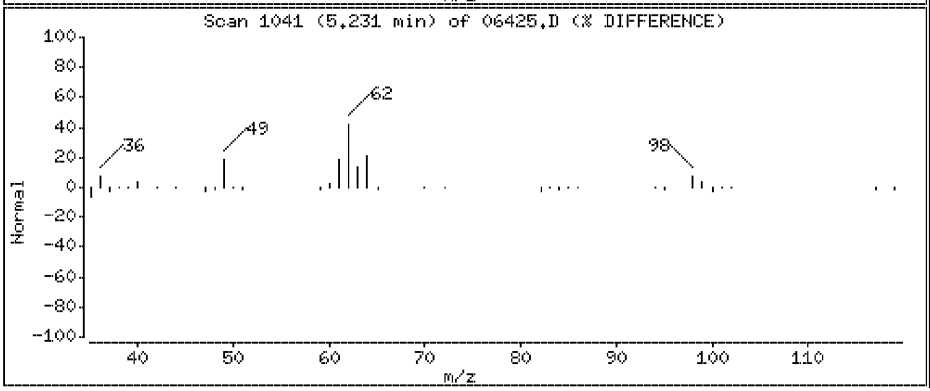












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

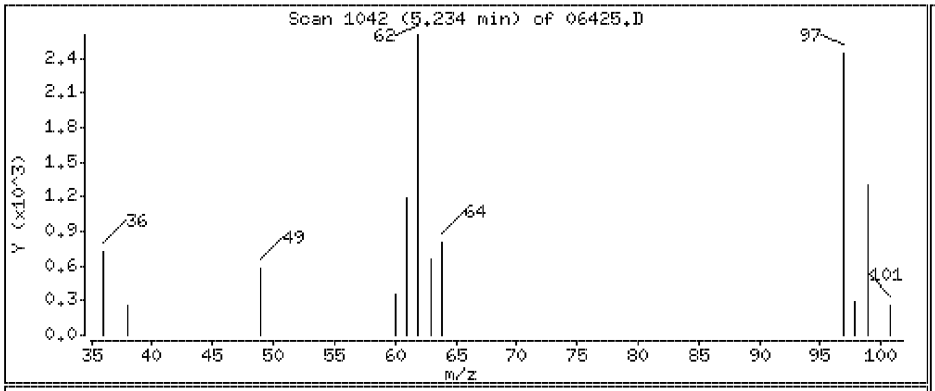
Operator: NCK

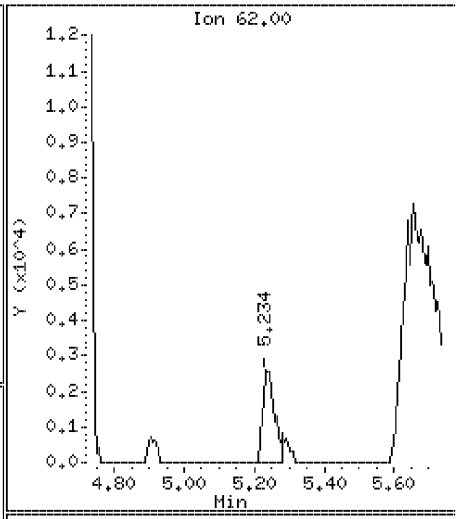
Column phase: J&W DB-5

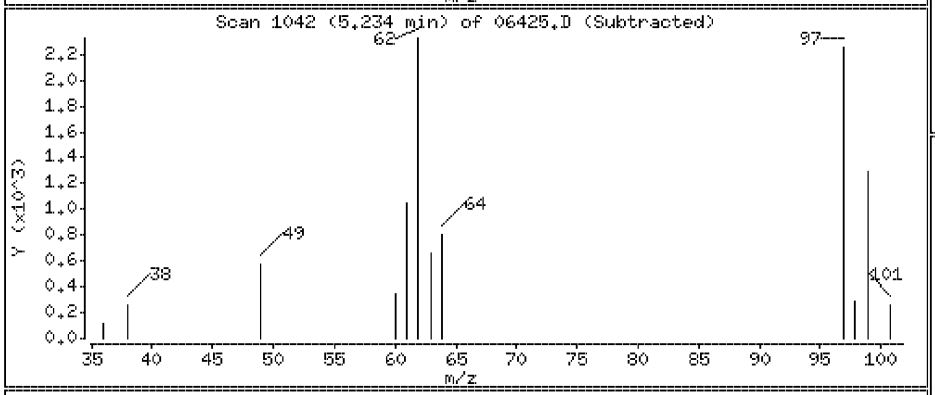
Column diameter: 0.32

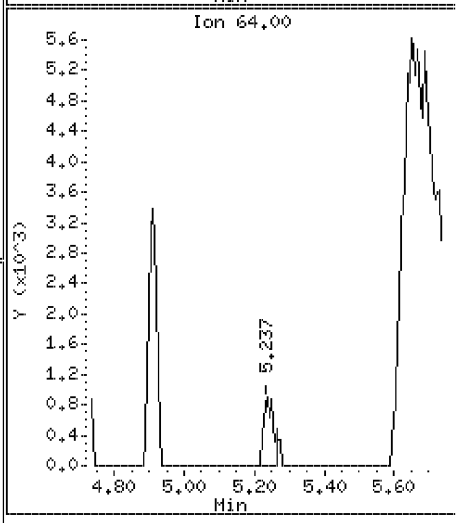
42 1,2-Dichloroethane

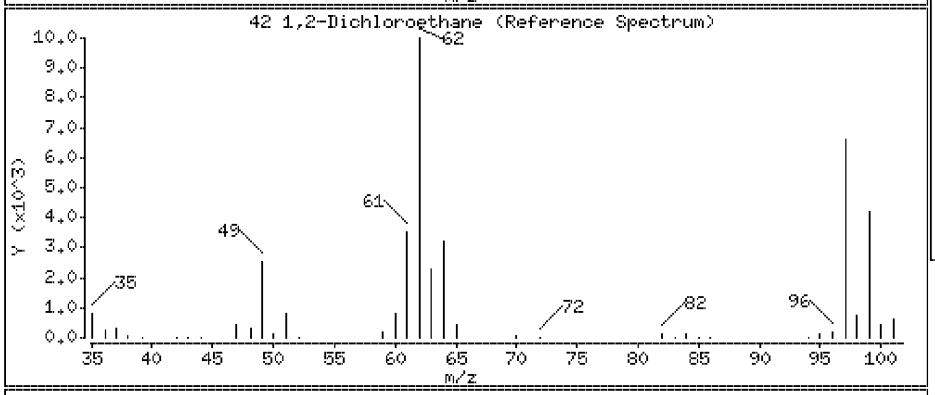
Concentration: 0.430 ppbv

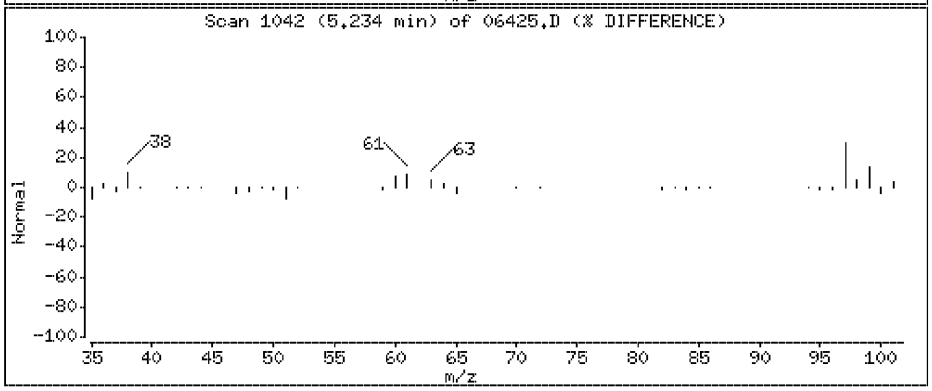












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

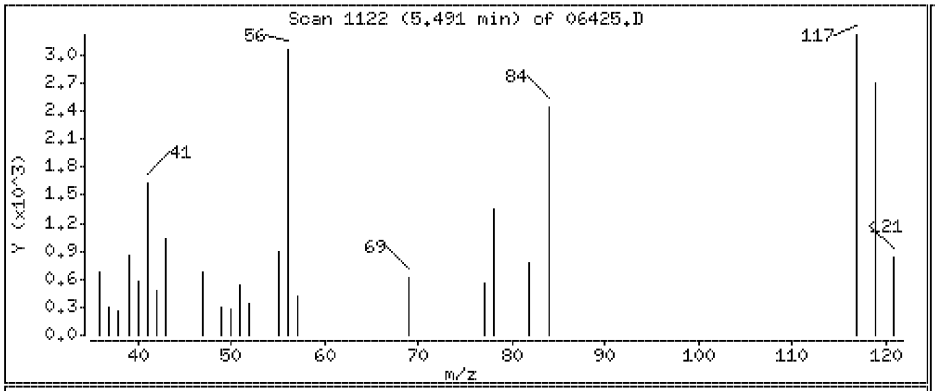
Operator: NCK

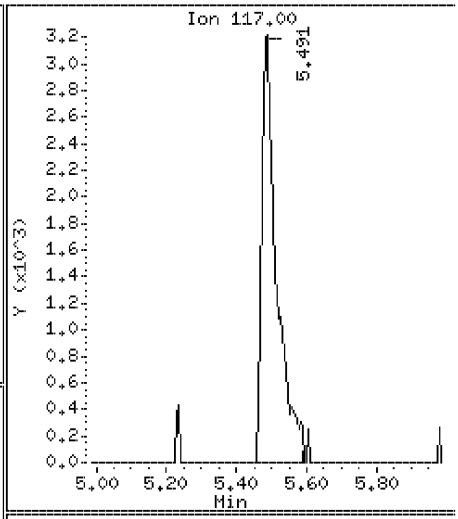
Column phase: J&W DB-5

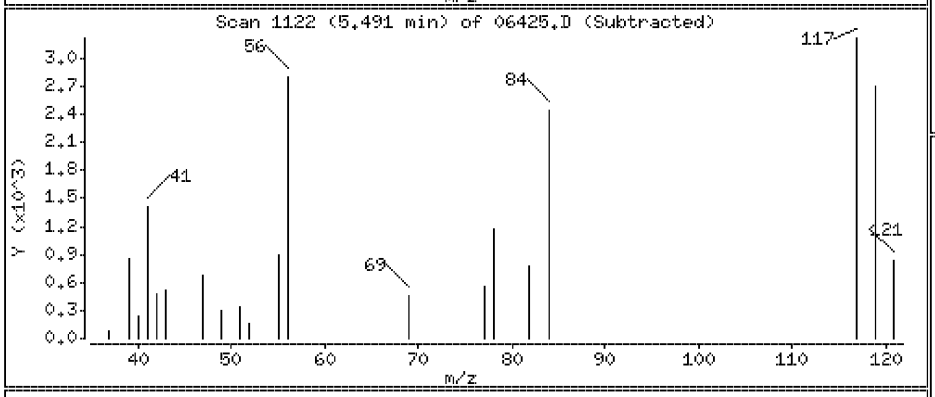
Column diameter: 0.32

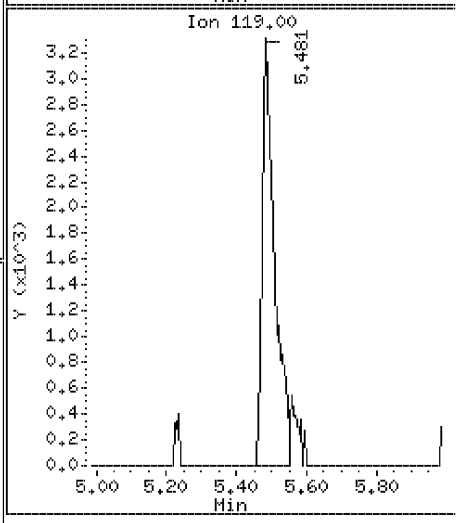
44 Carbon tetrachloride

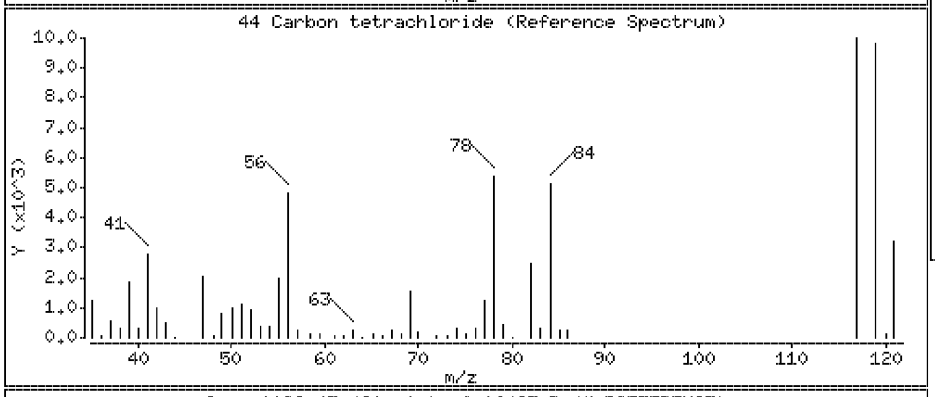
Concentration: 0.497 ppbv

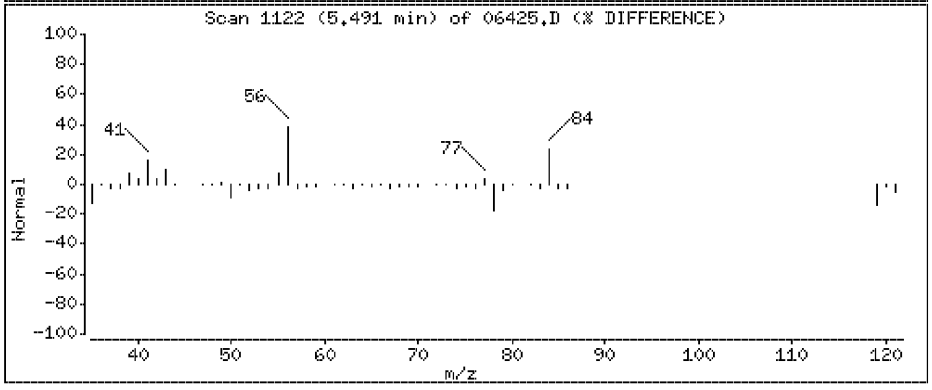












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

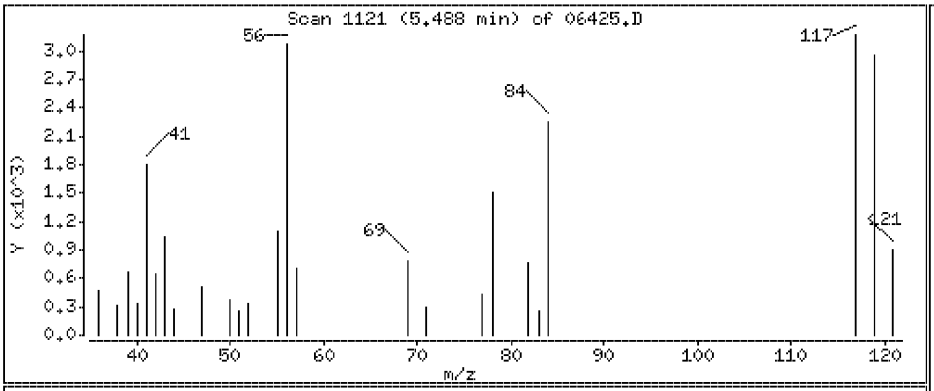
Operator: NCK

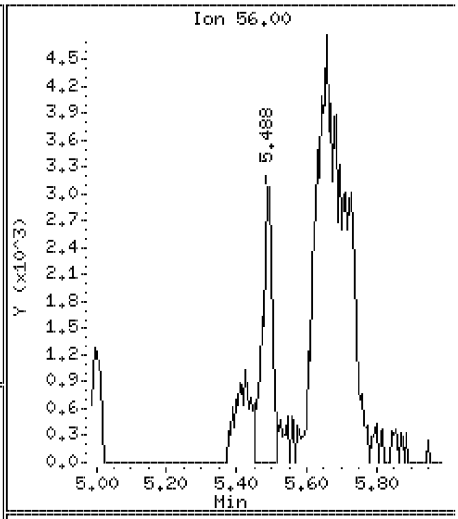
Column phase: J&W DB-5

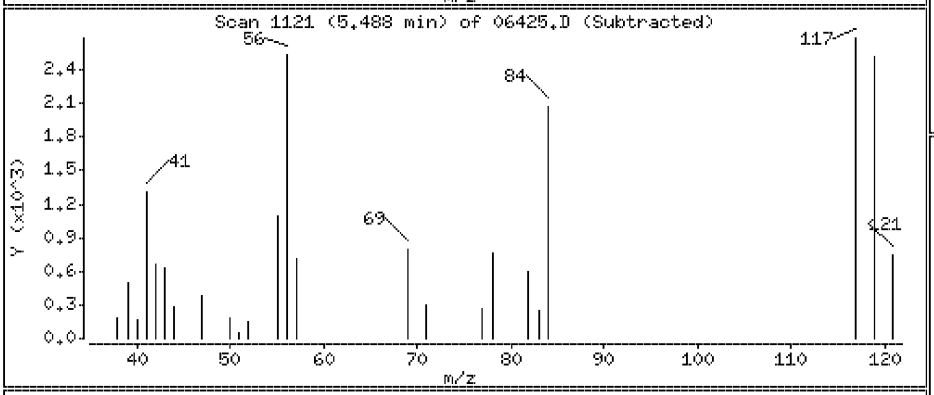
Column diameter: 0.32

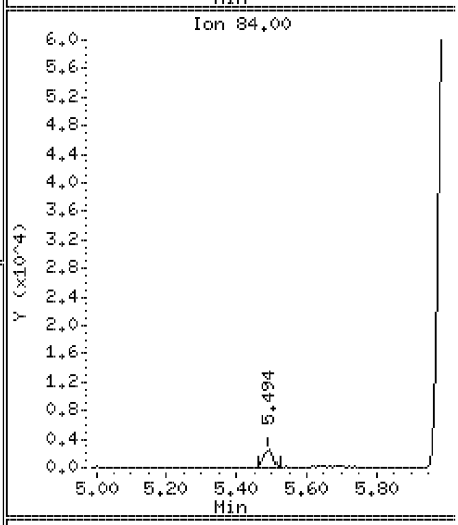
45 Cyclohexane

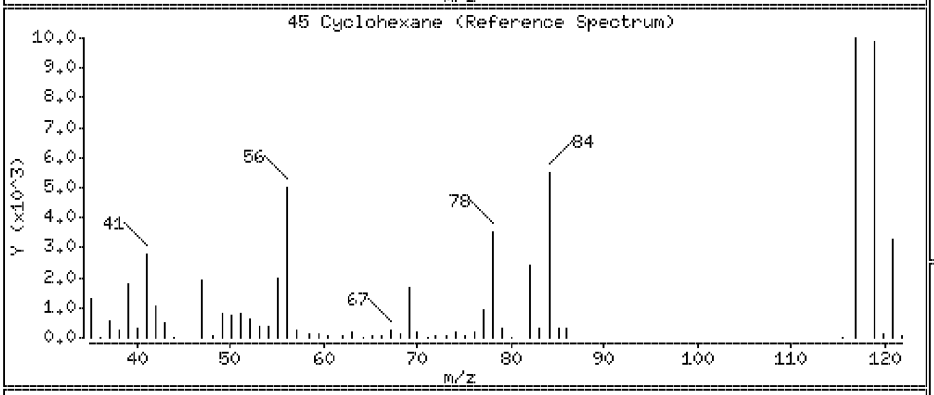
Concentration: 0.496 ppbv

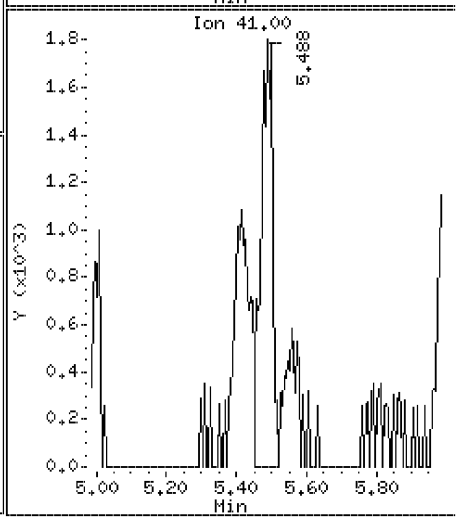


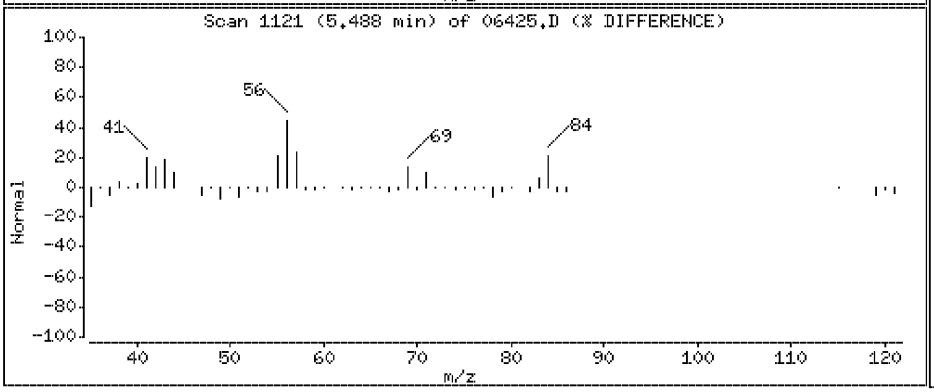












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

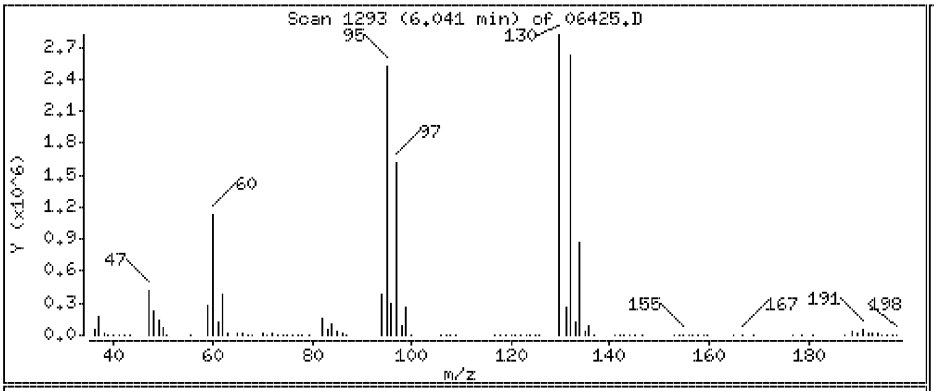
Operator: NCK

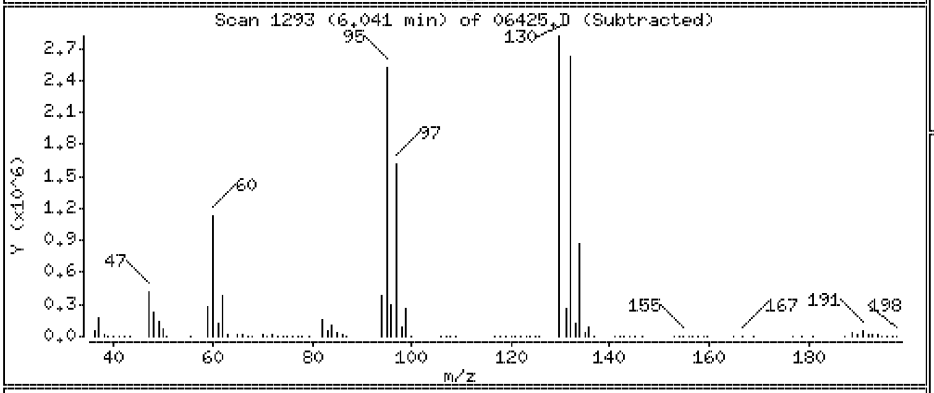
Column phase: J&W DB-5

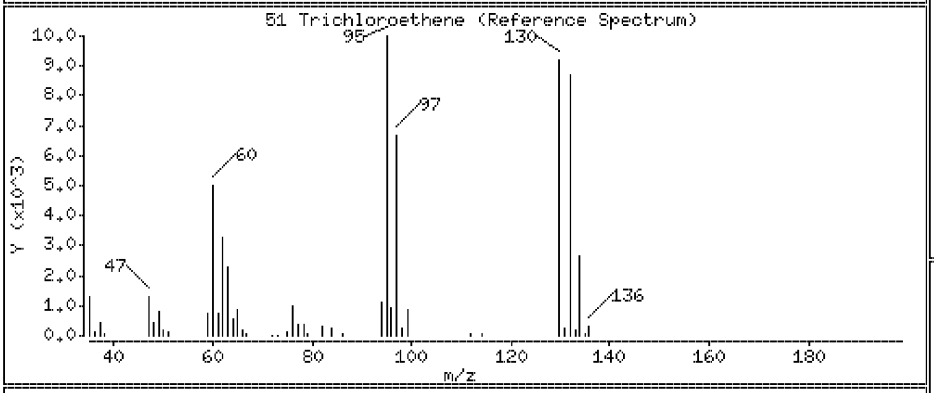
Column diameter: 0.32

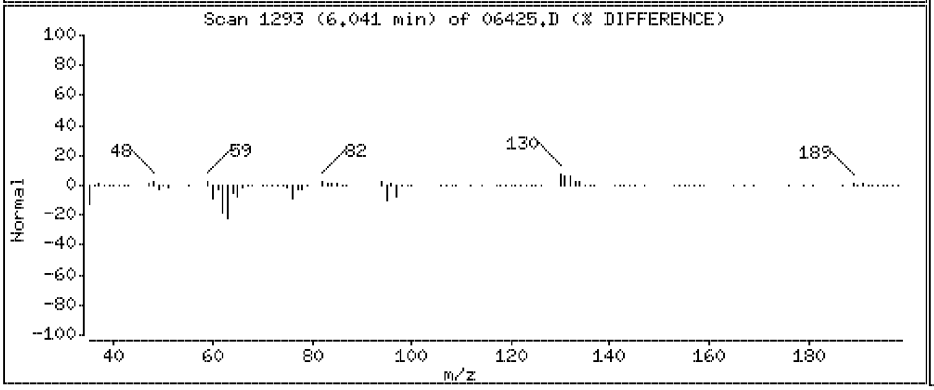
51 Trichloroethene

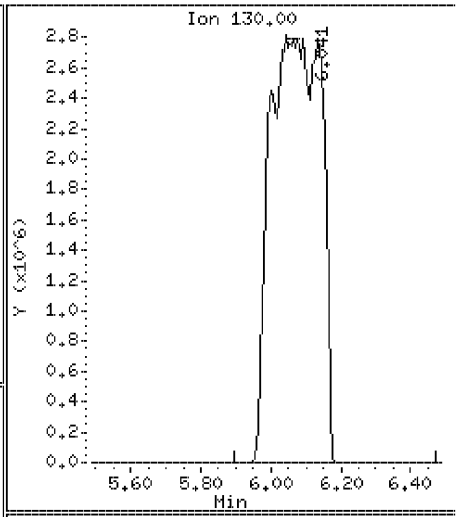
Concentration: 2280 ppbv

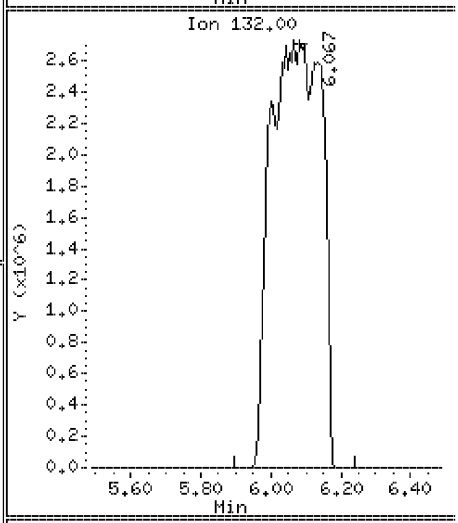


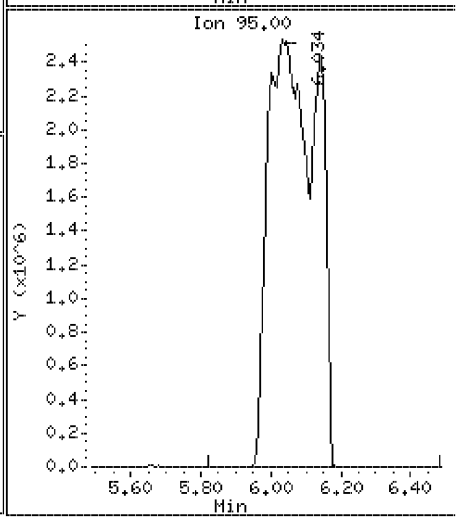












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

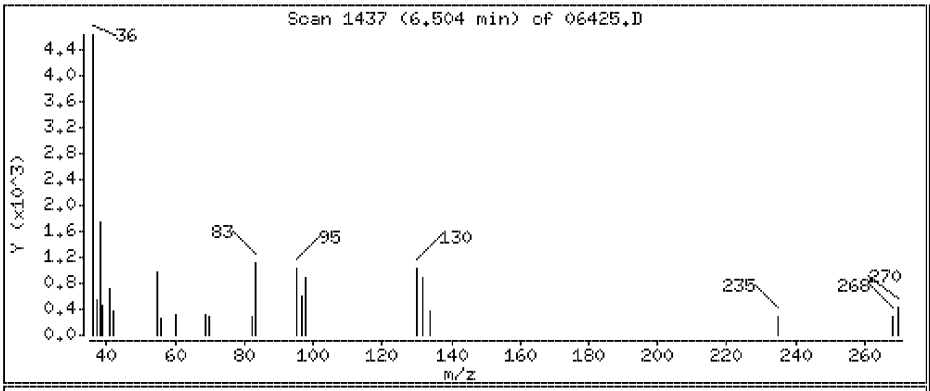
Operator: NCK

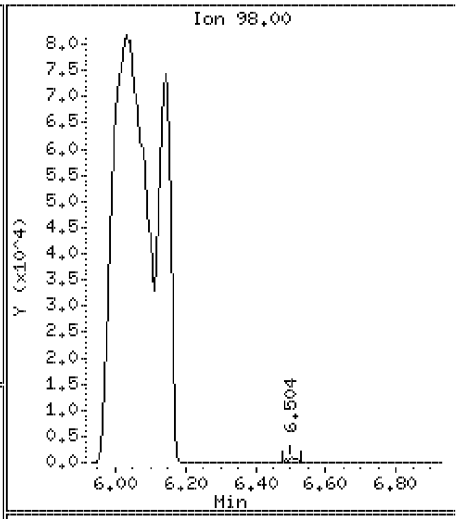
Column phase: J&W DB-5

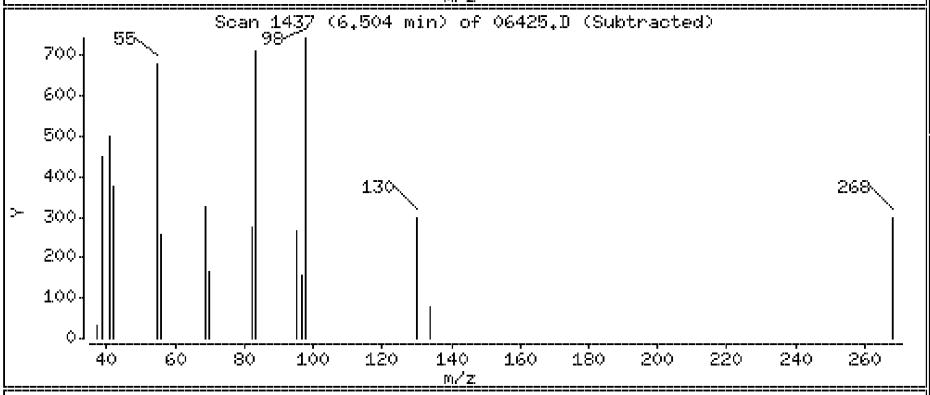
Column diameter: 0.32

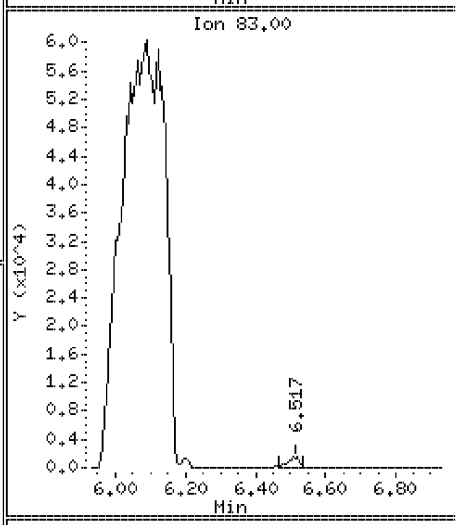
55 Methylcyclohexane

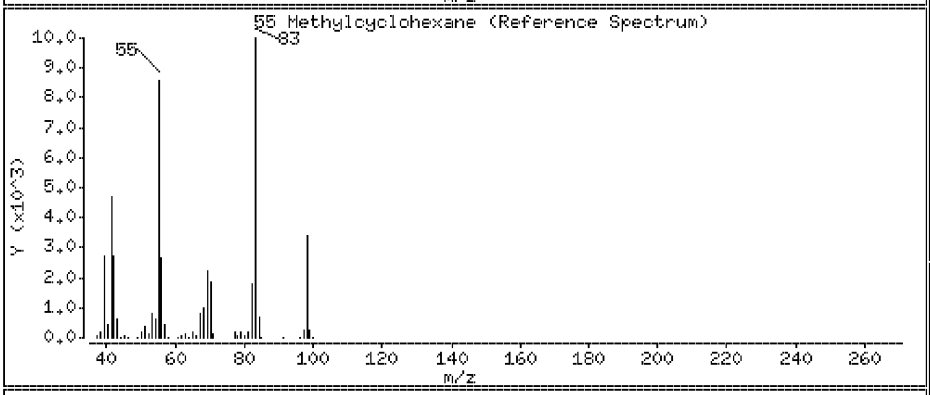
Concentration: 0.234 ppbv

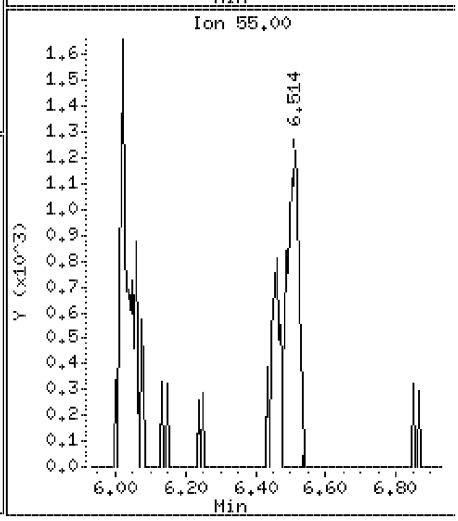


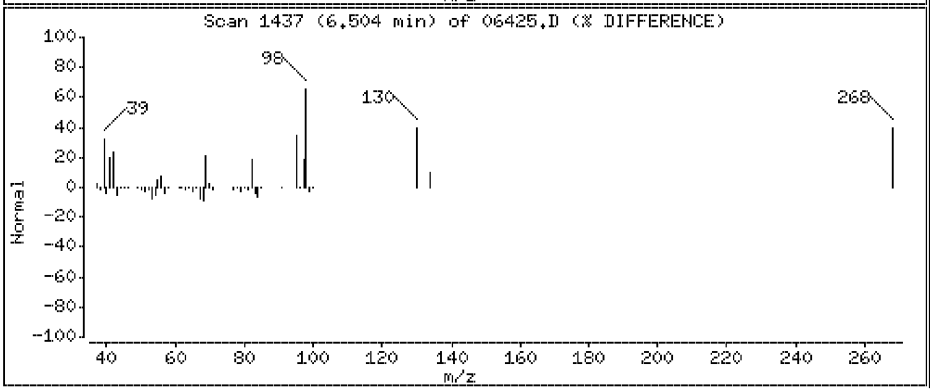












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

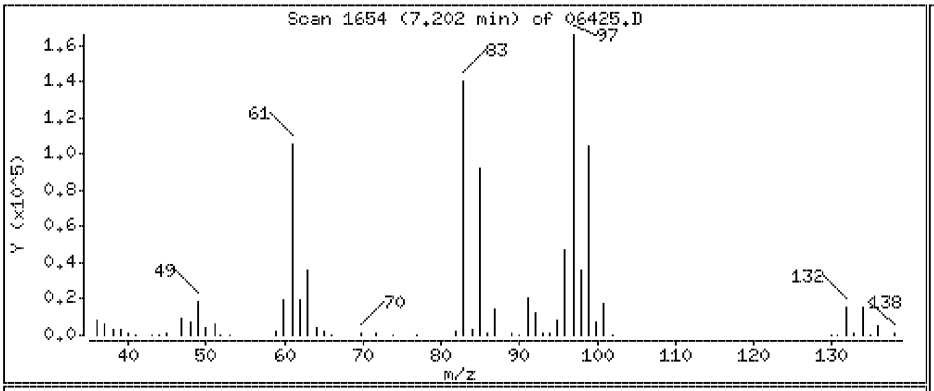
Operator: NCK

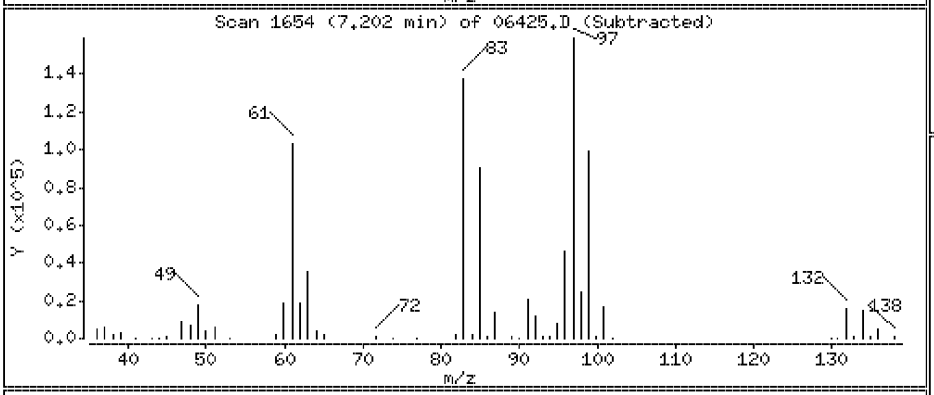
Column phase: J&W DB-5

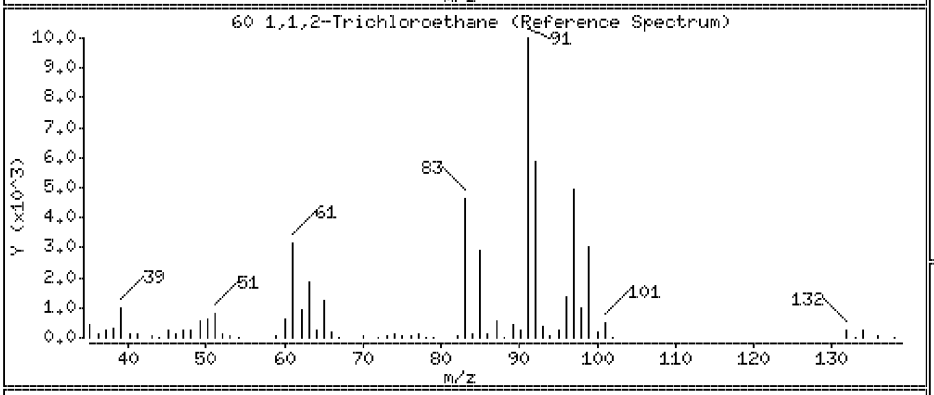
Column diameter: 0.32

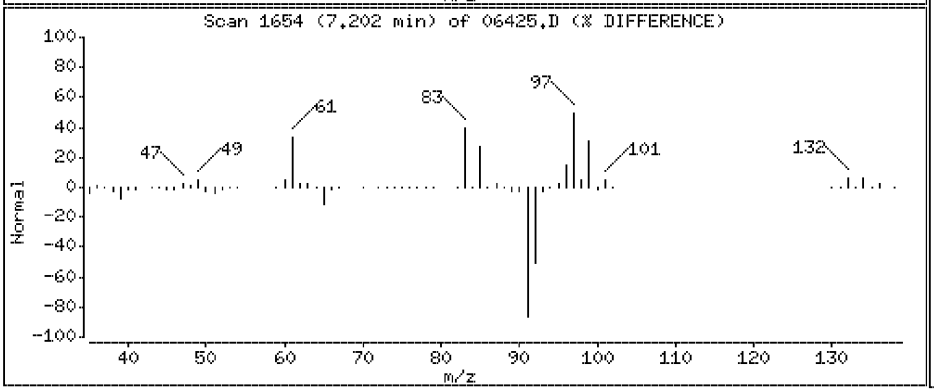
60 1,1,2-Trichloroethane

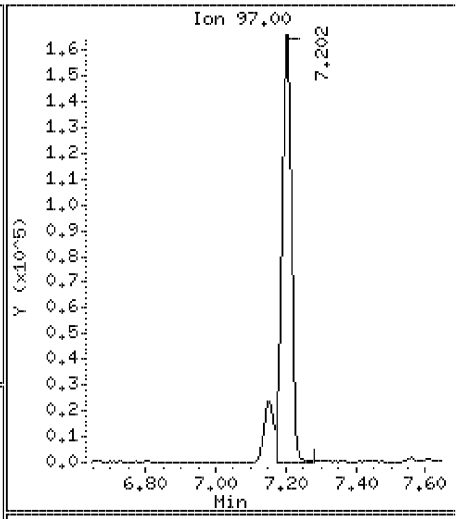
Concentration: 29.2 ppbv

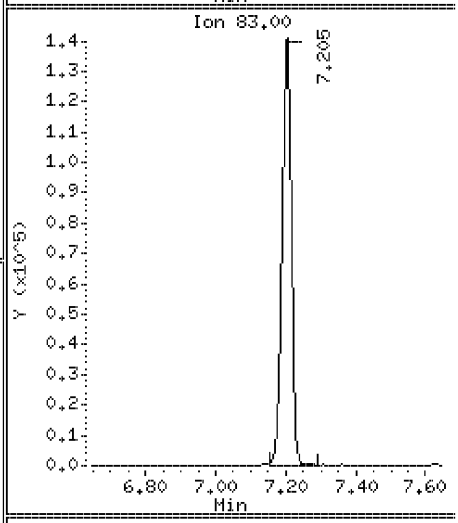


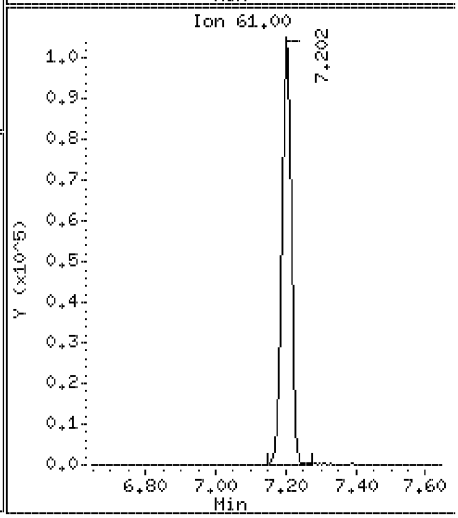












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

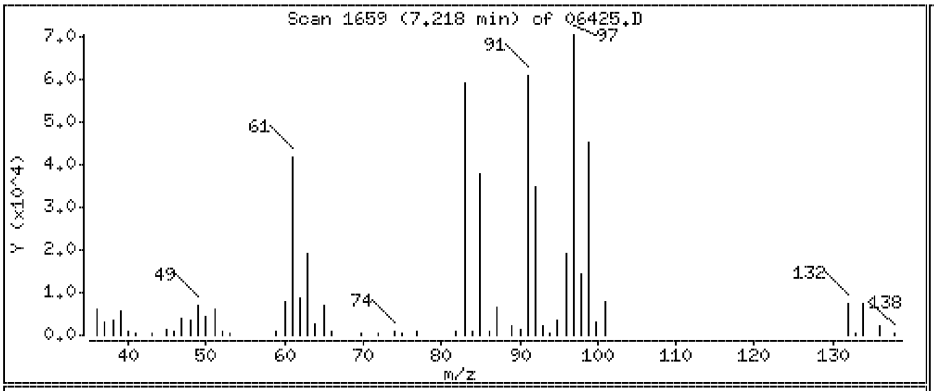
Operator: NCK

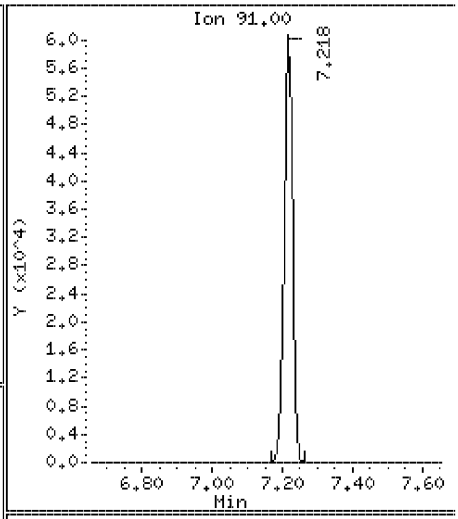
Column phase: J&W DB-5

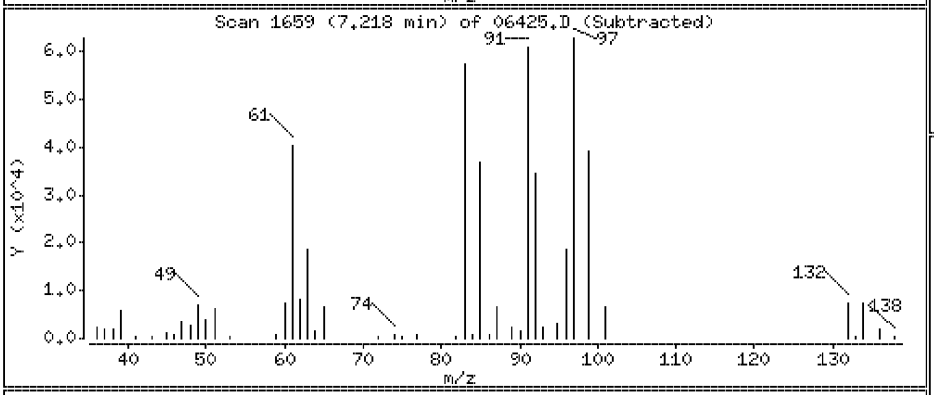
Column diameter: 0.32

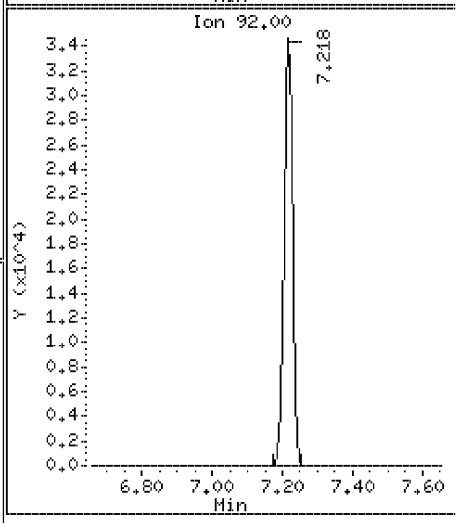
61 Toluene

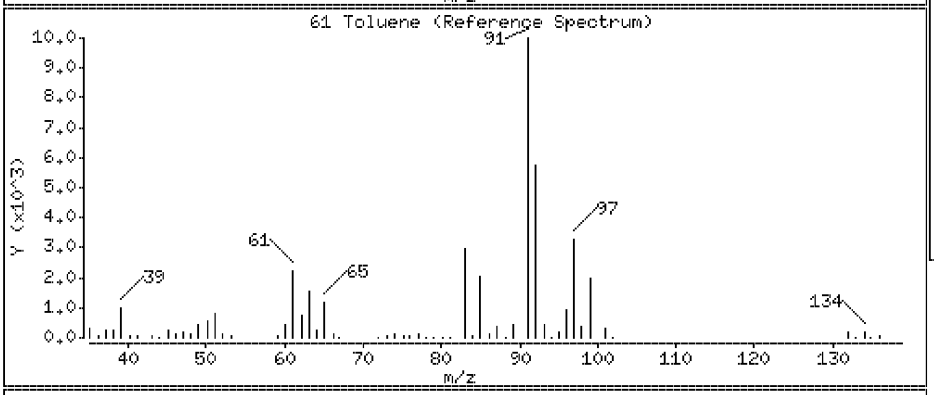
Concentration: 3.15 ppbv

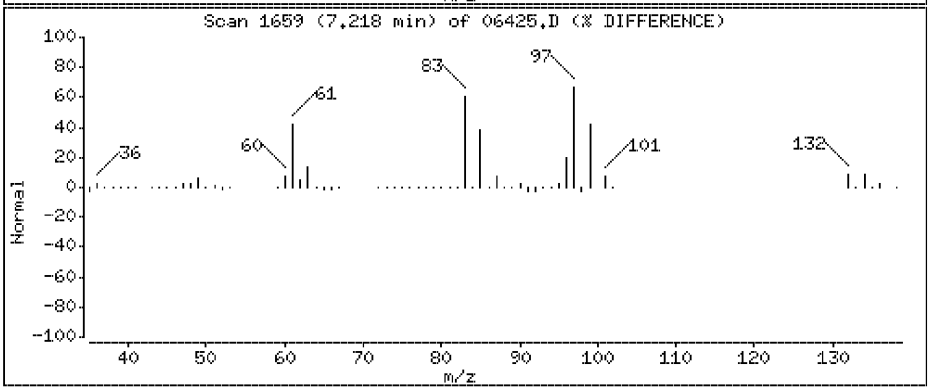












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

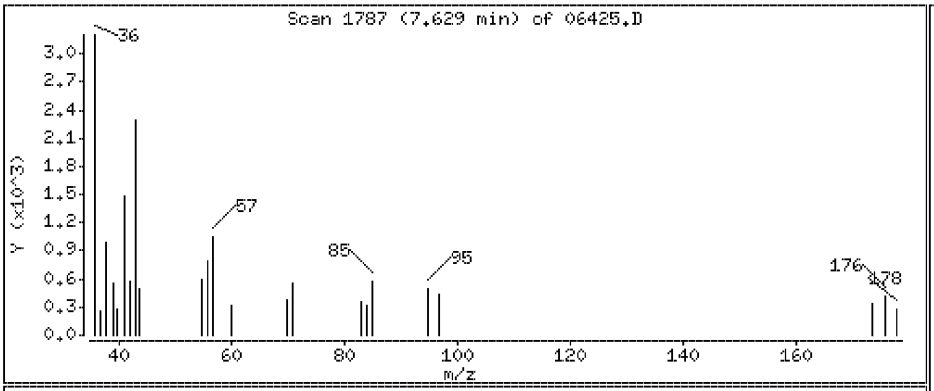
Operator: NCK

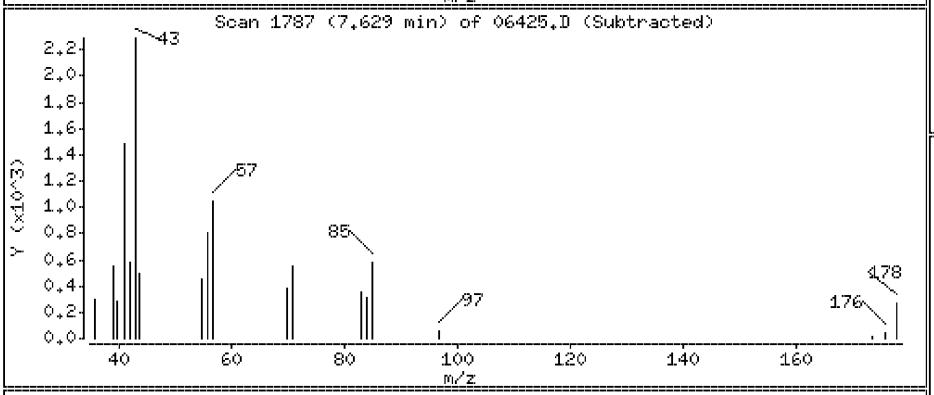
Column phase: J&W DB-5

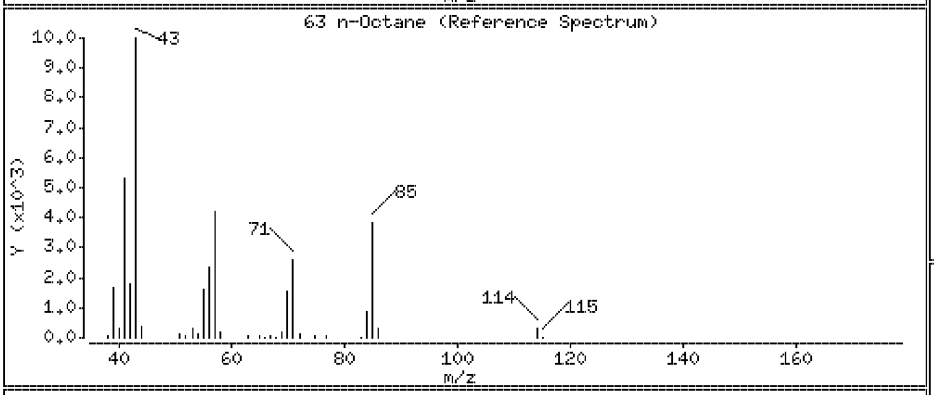
Column diameter: 0.32

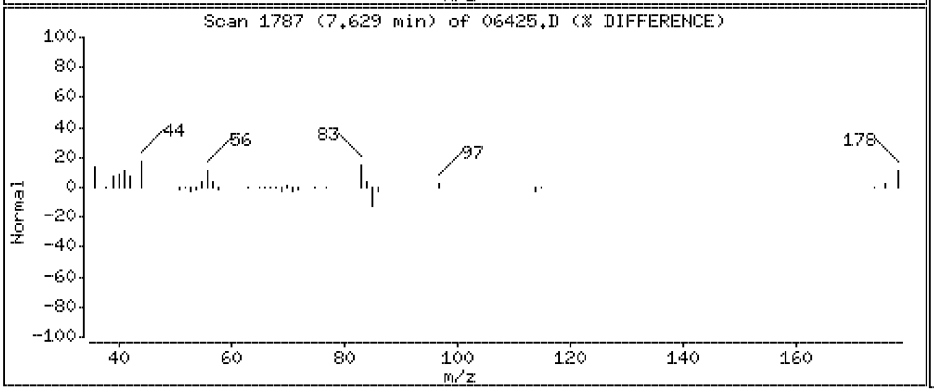
63 n-Octane

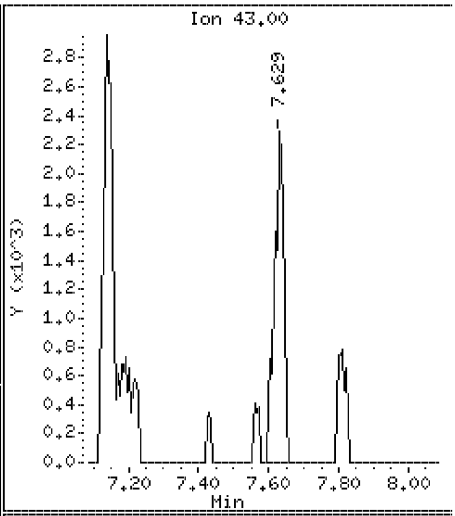
Concentration: 0.253 ppbv

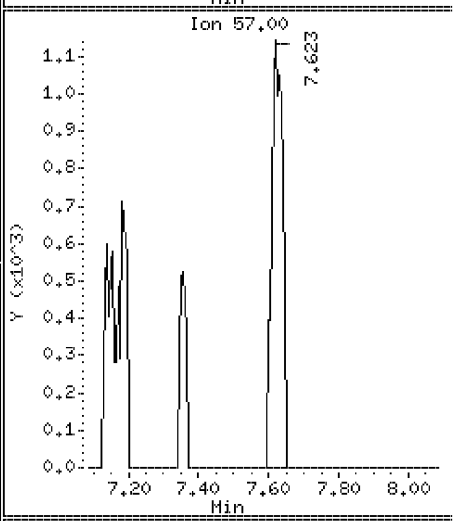


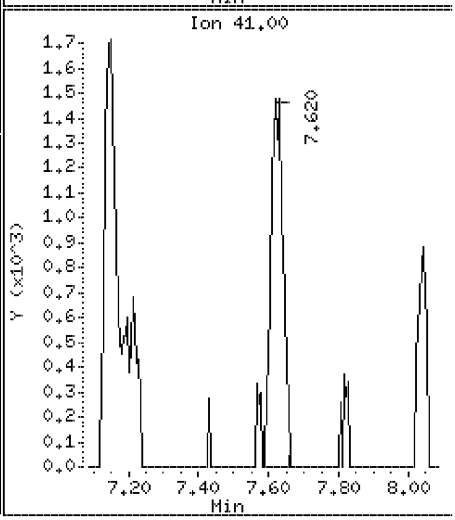












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

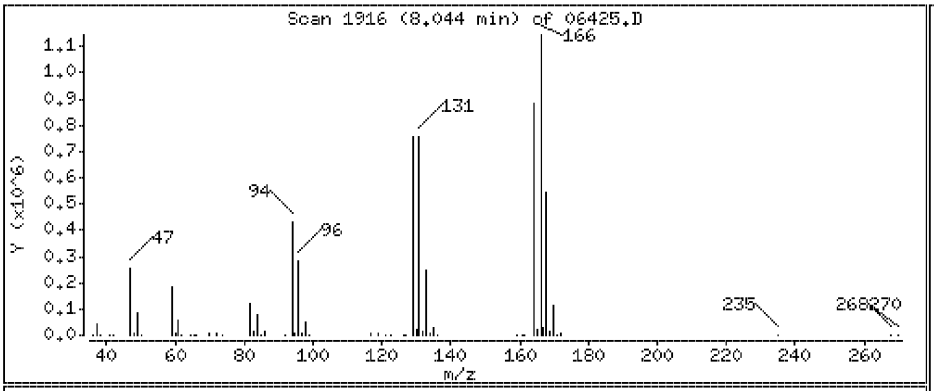
Operator: NCK

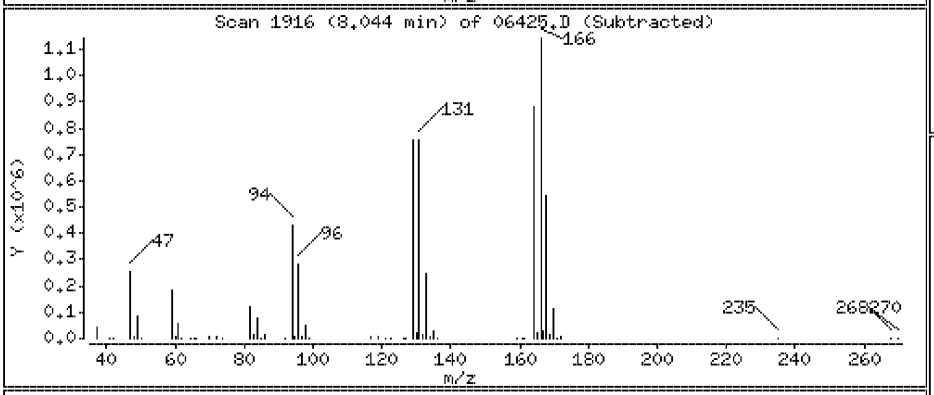
Column phase: J&W DB-5

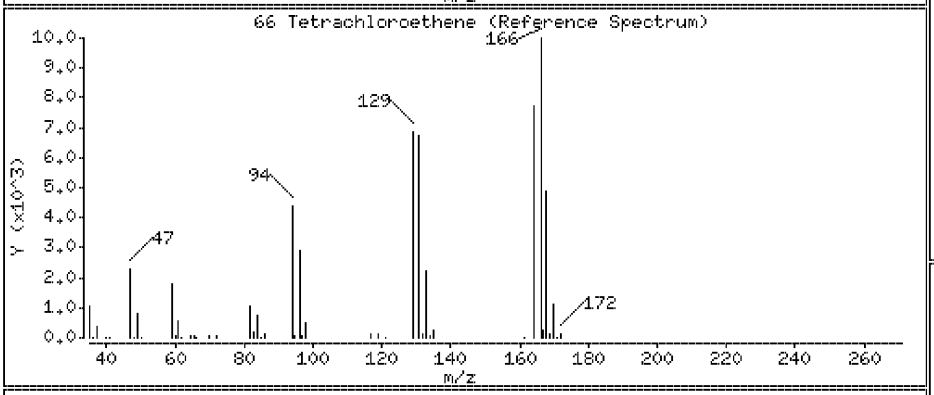
Column diameter: 0.32

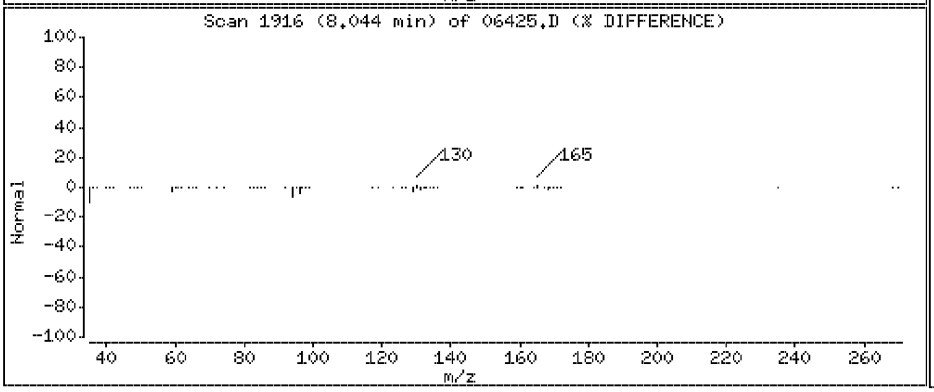
66 Tetrachloroethene

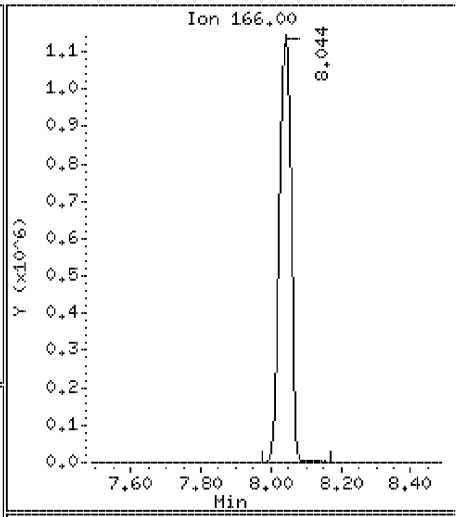
Concentration: 162 ppbv

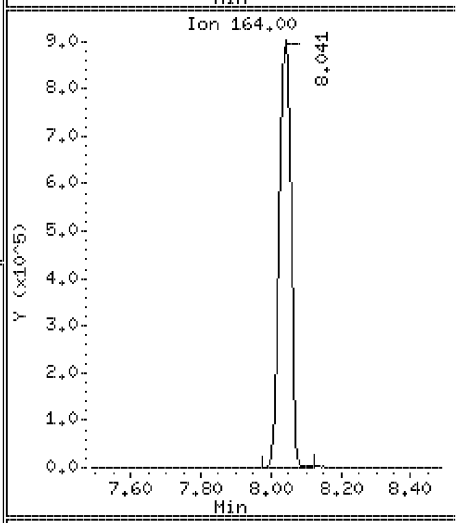


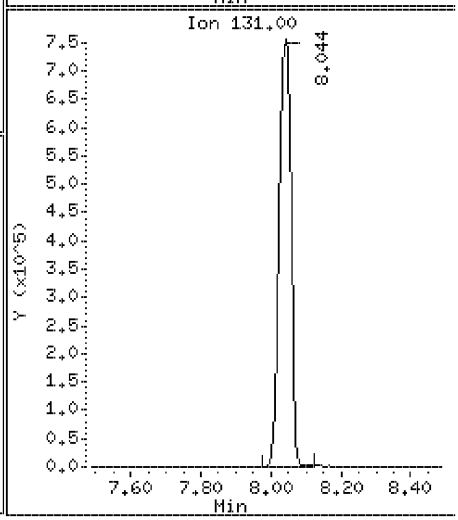












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

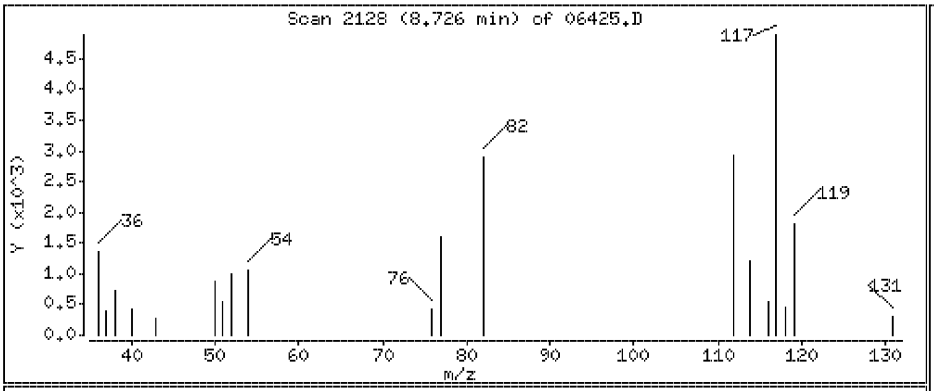
Operator: NCK

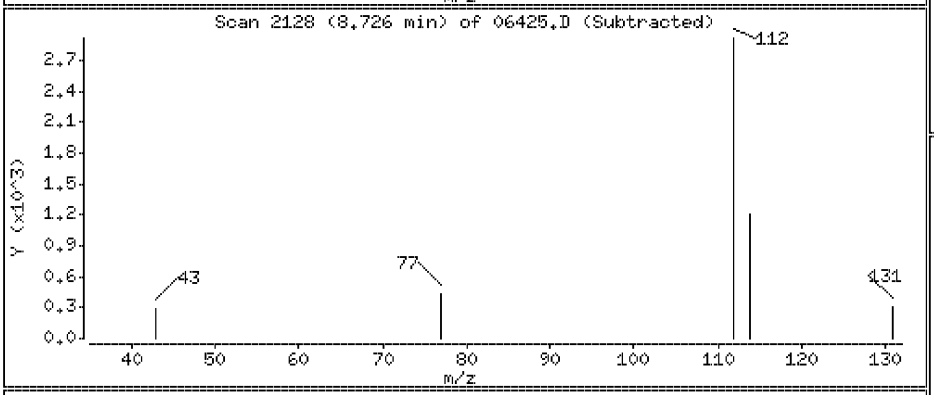
Column phase: J&W DB-5

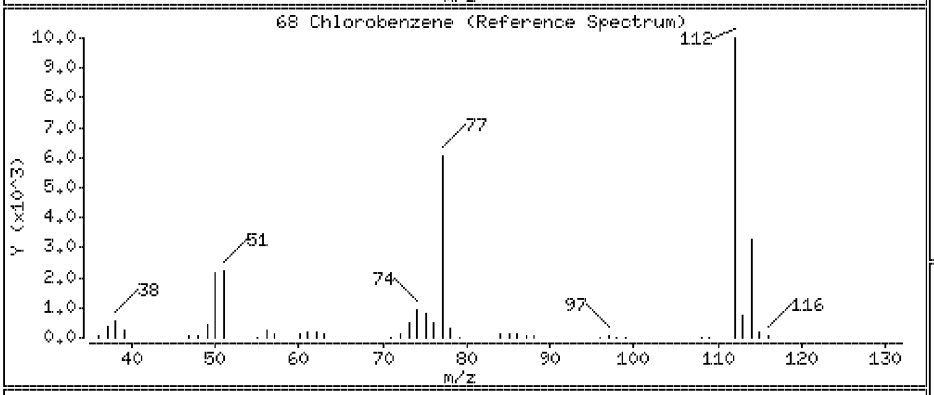
Column diameter: 0.32

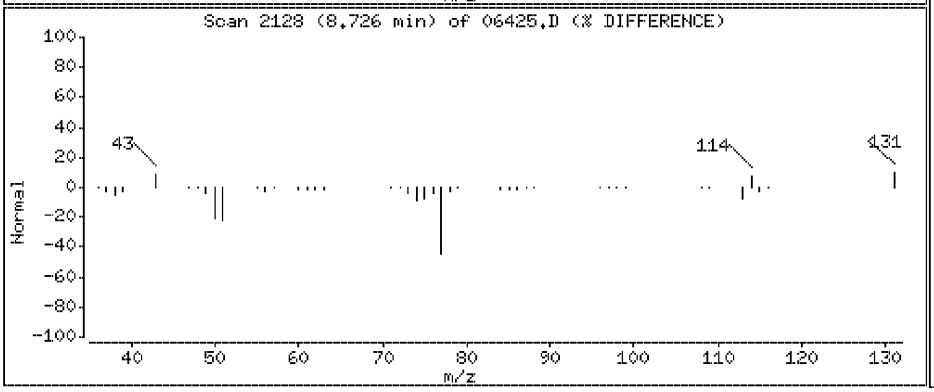
68 Chlorobenzene

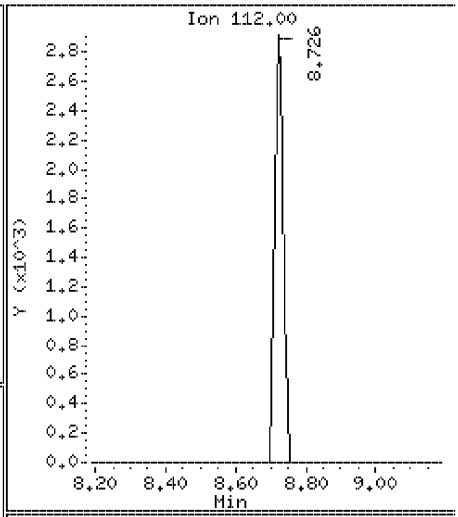
Concentration: 0.202 ppbv

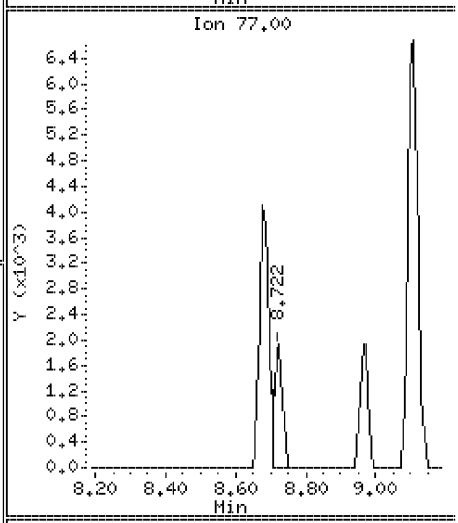


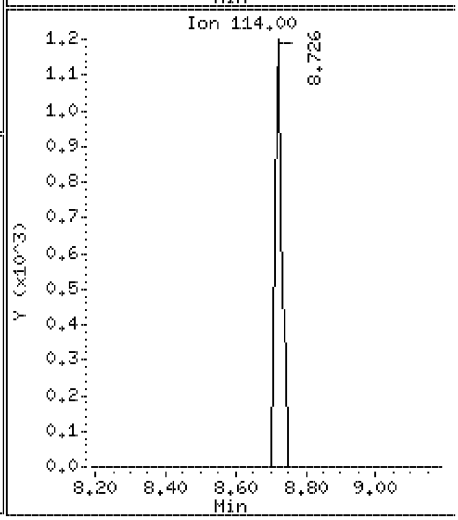












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

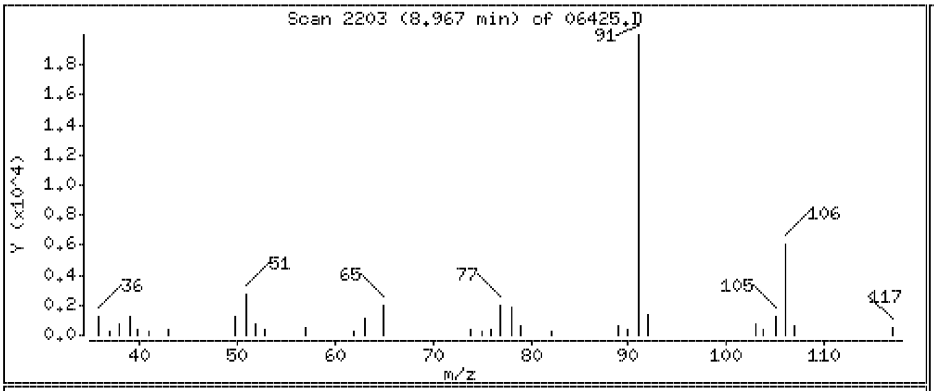
Operator: NCK

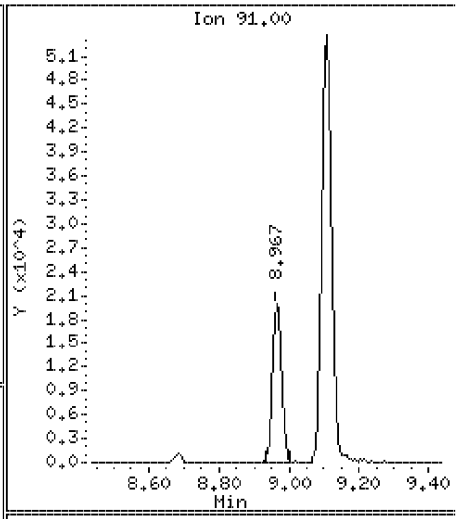
Column phase: J&W DB-5

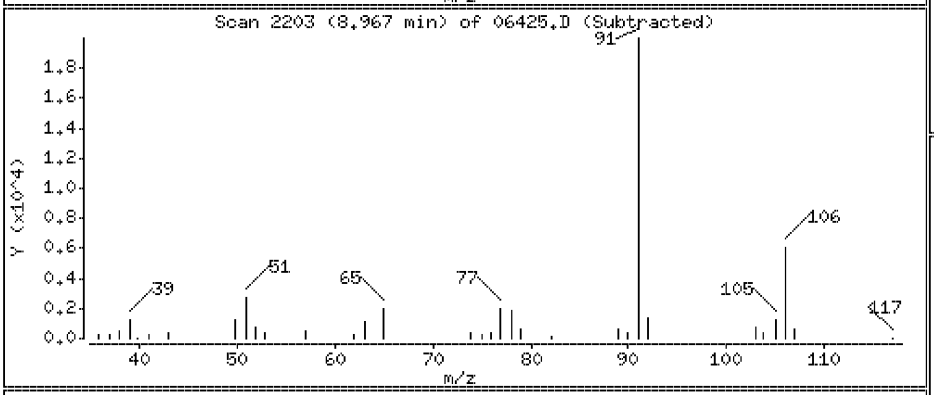
Column diameter: 0.32

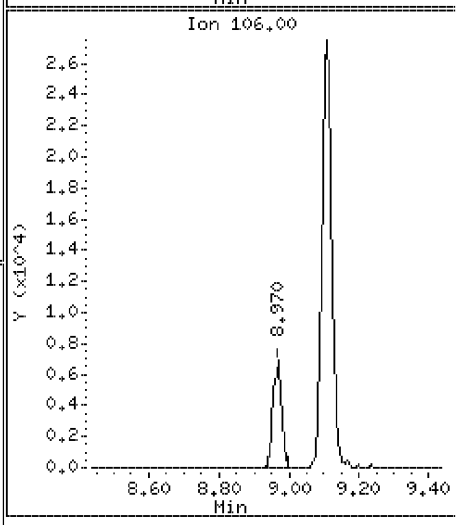
69 Ethyl Benzene

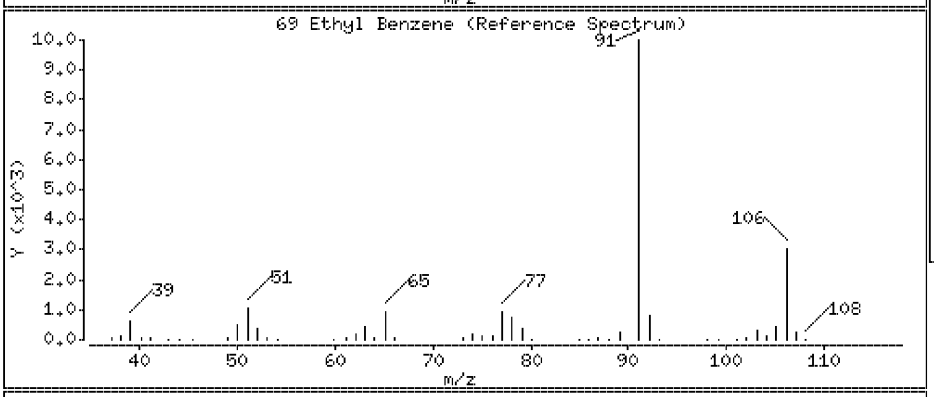
Concentration: 1.04 ppbv

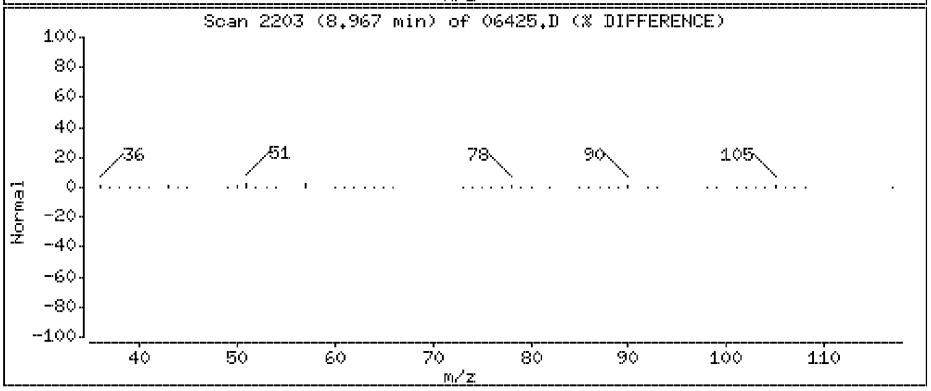












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

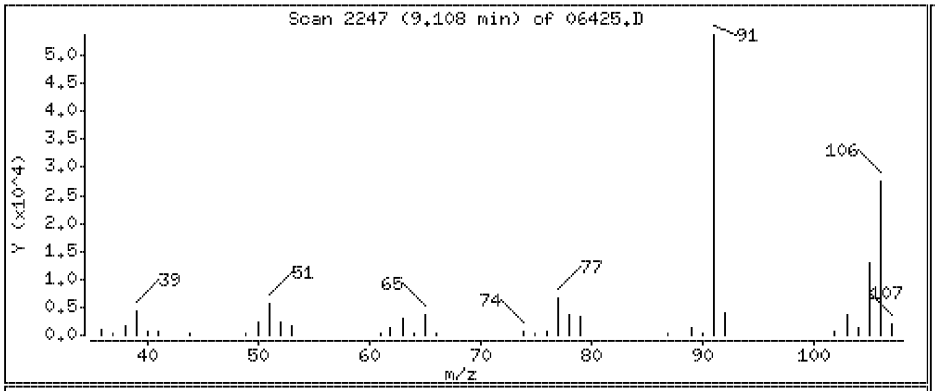
Operator: NCK

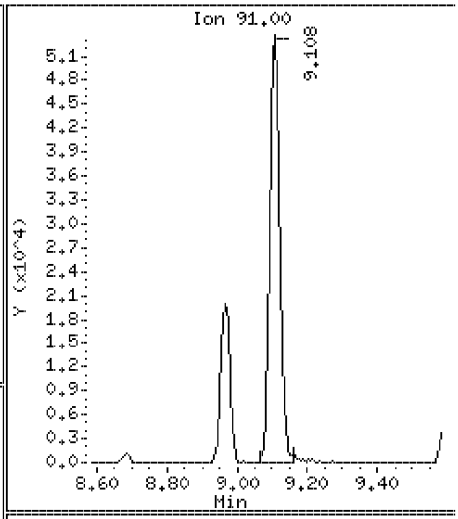
Column phase: J&W DB-5

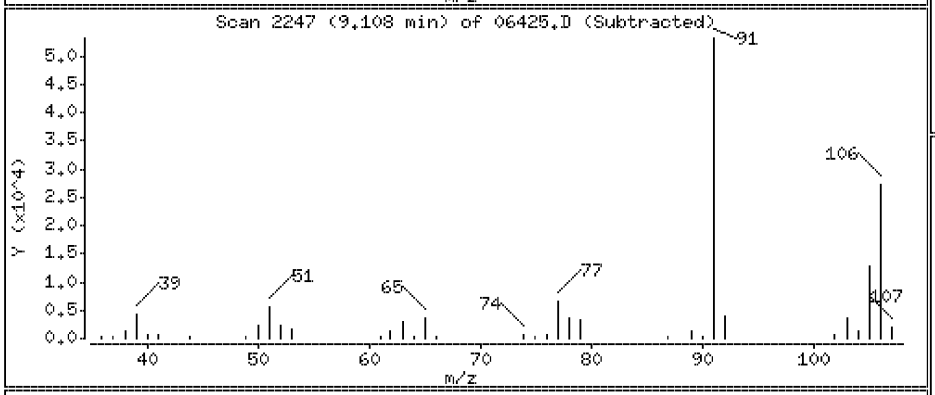
Column diameter: 0.32

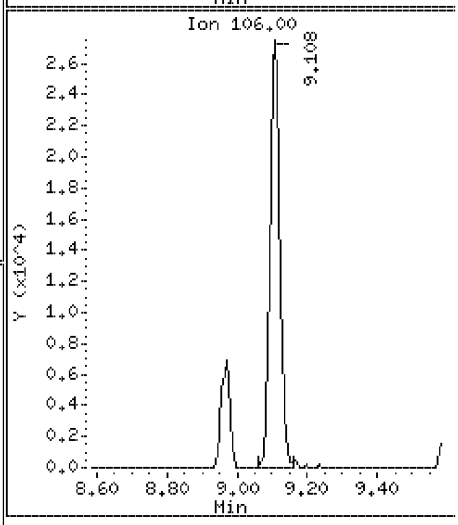
70 m&p-Xylene

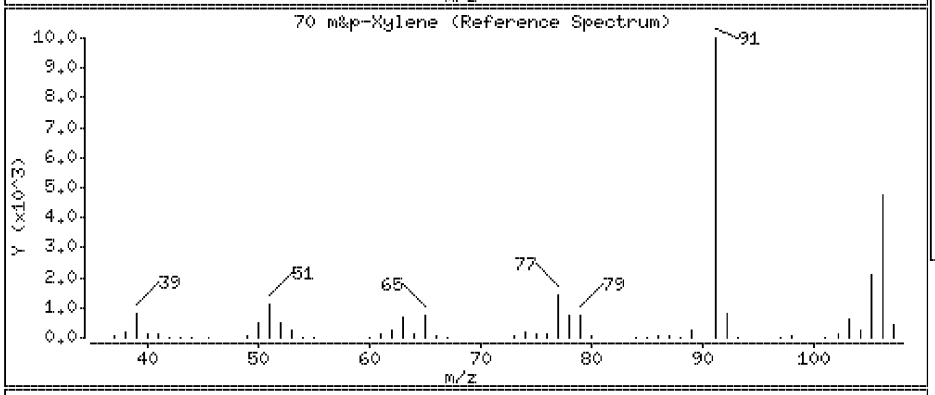
Concentration: 3.86 ppbv

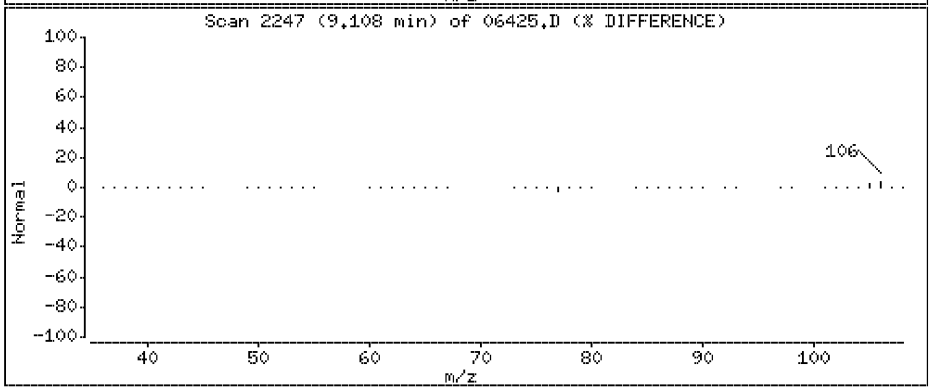












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

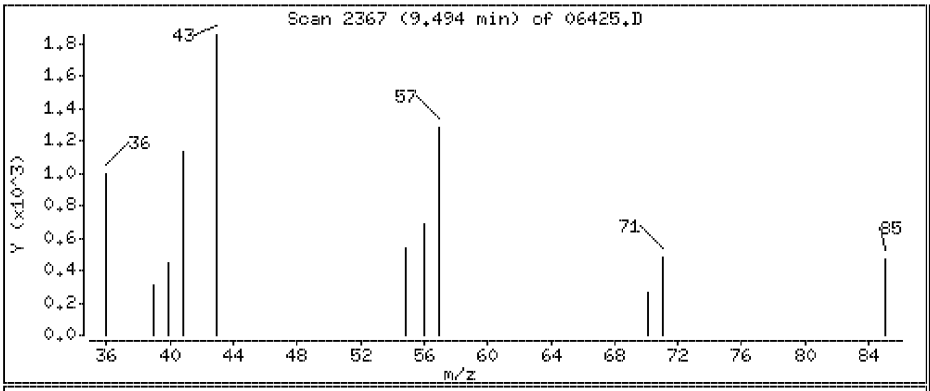
Operator: NCK

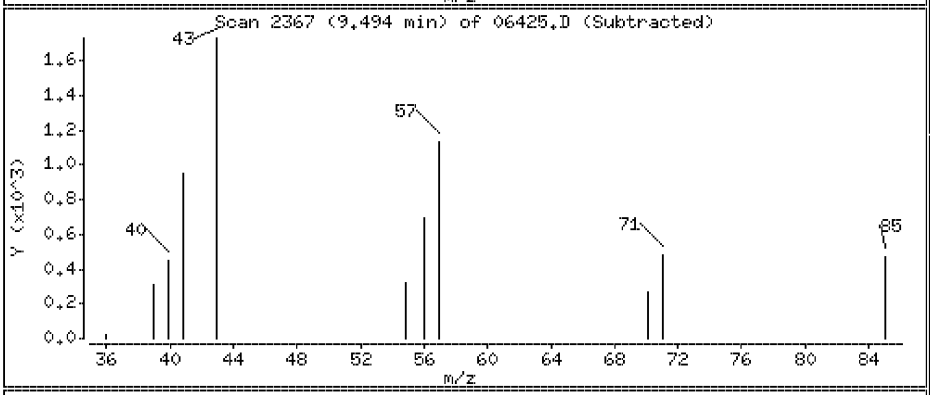
Column phase: J&W DB-5

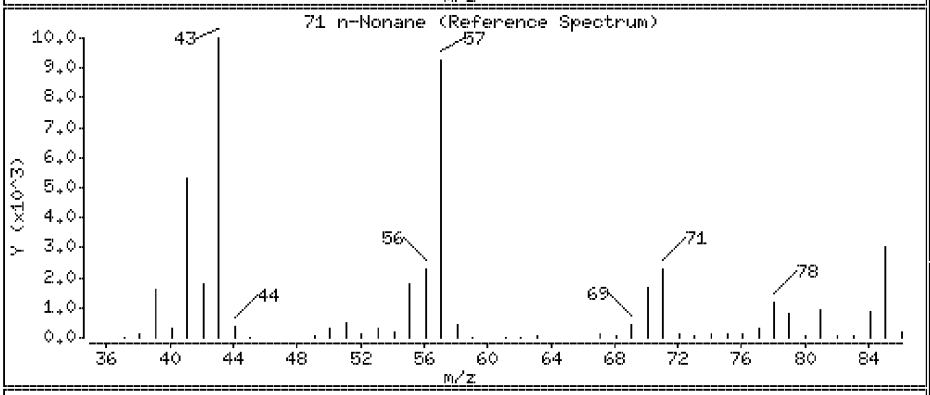
Column diameter: 0.32

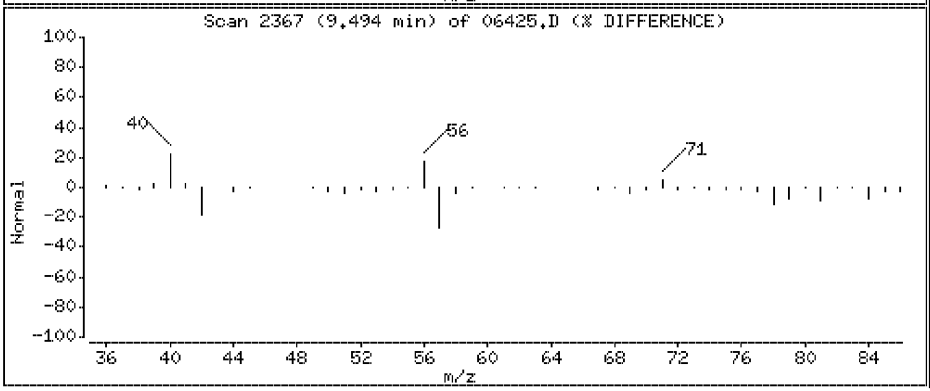
71 n-Nonane

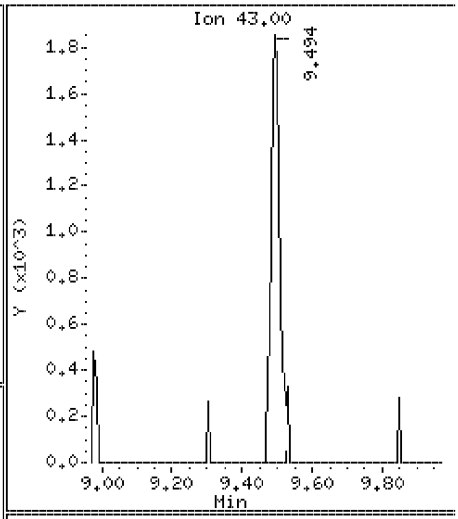
Concentration: 0.217 ppbv

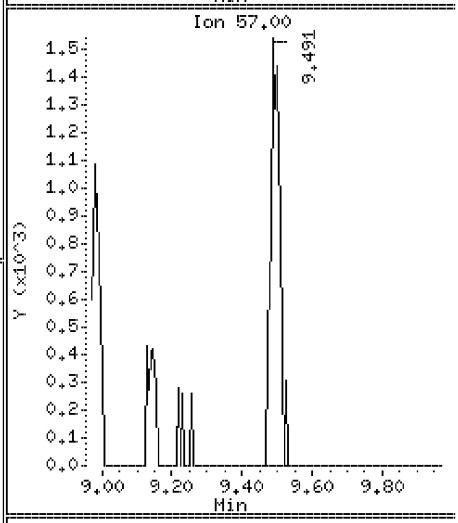


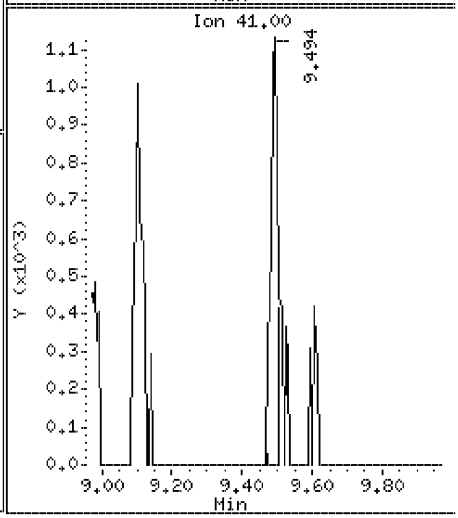












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

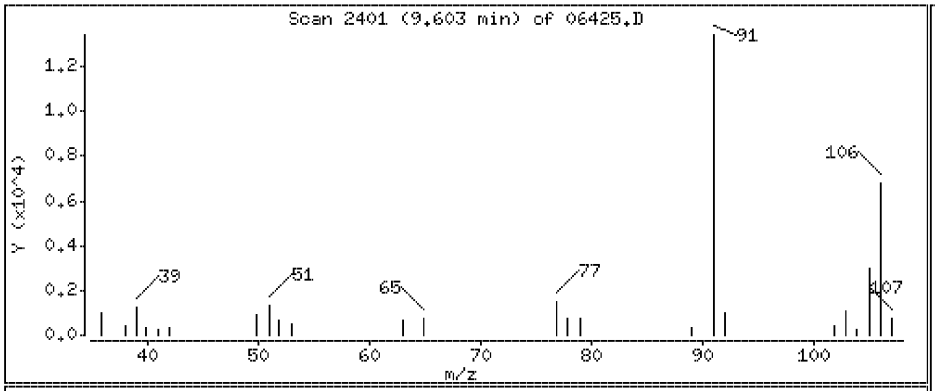
Operator: NCK

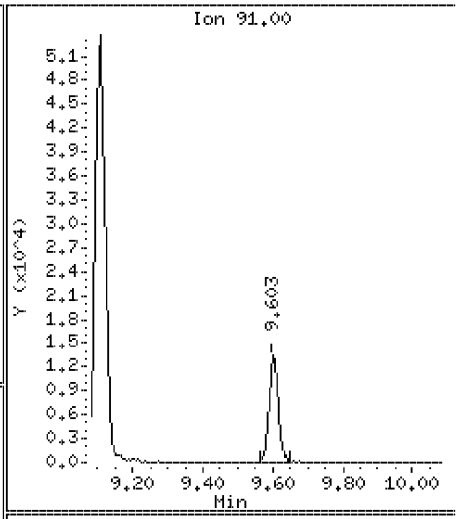
Column phase: J&W DB-5

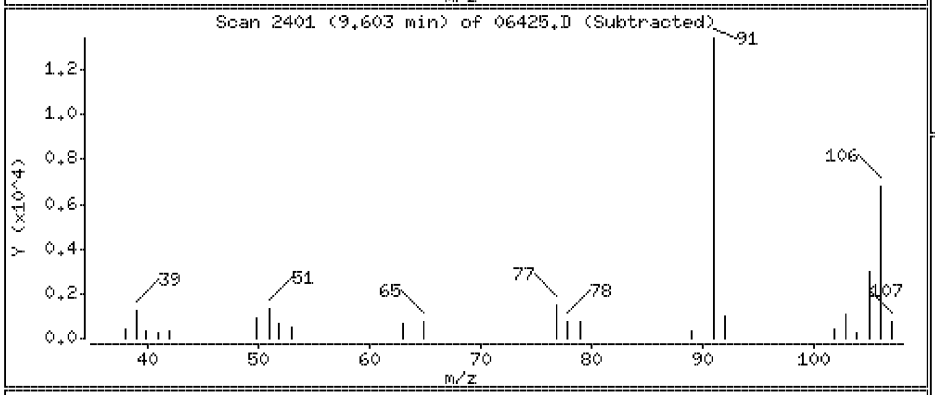
Column diameter: 0.32

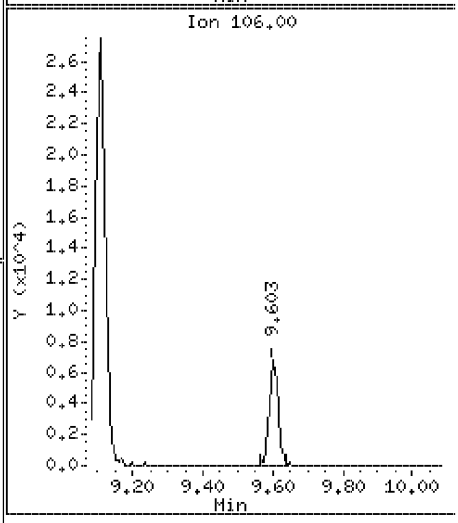
74 o-Xylene

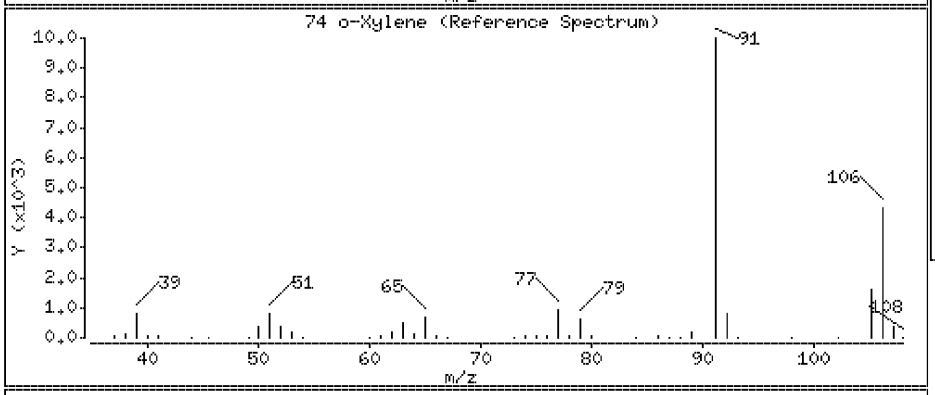
Concentration: 0.875 ppbv

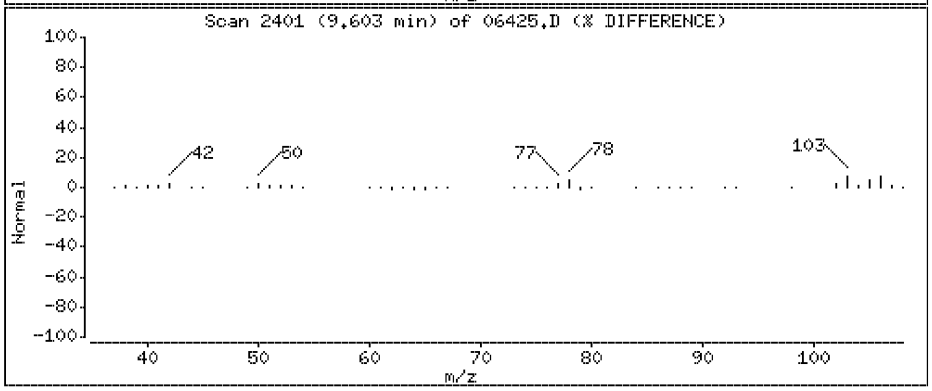












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

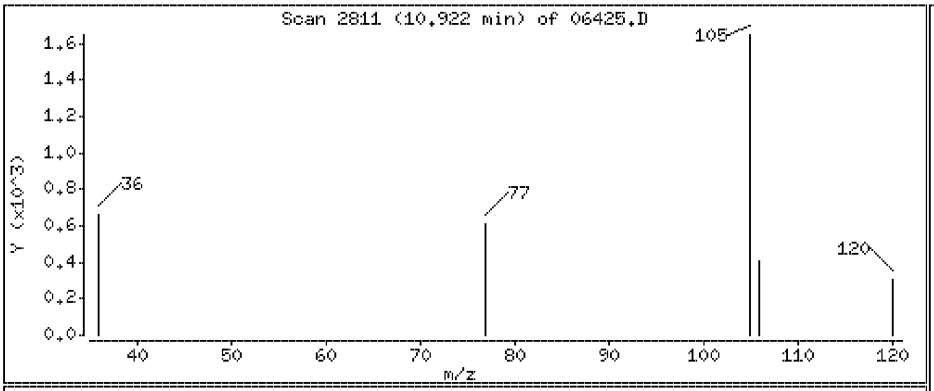
Operator: NCK

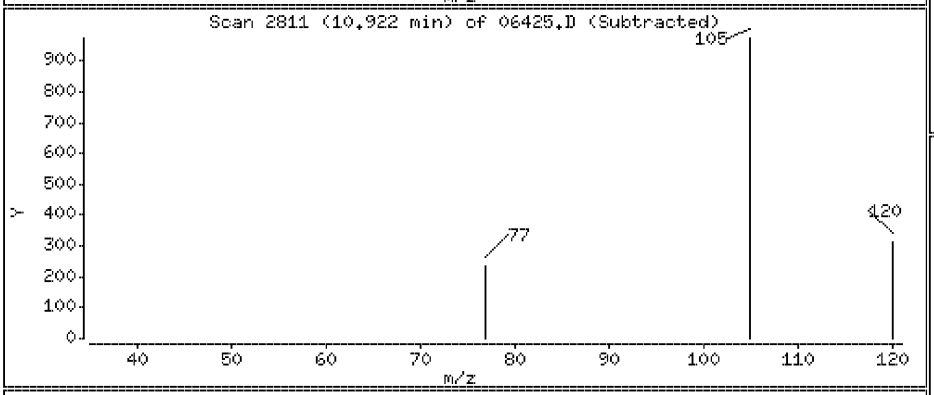
Column phase: J&W DB-5

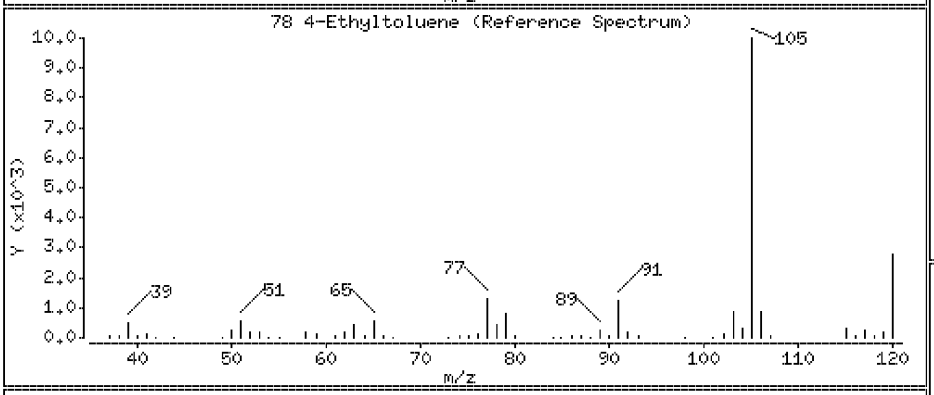
Column diameter: 0.32

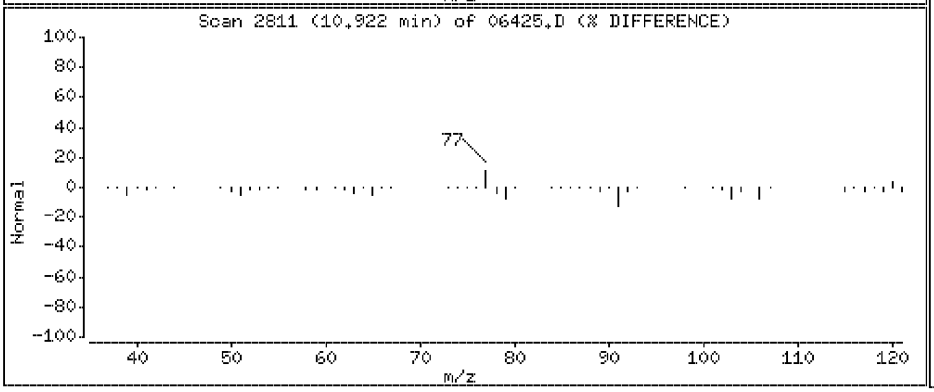
78 4-Ethyltoluene

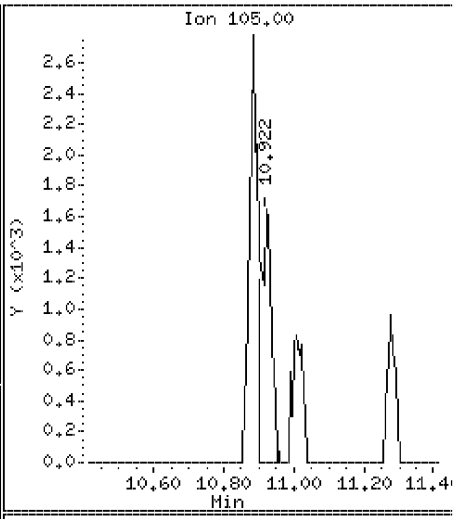
Concentration: 0.262 ppbv

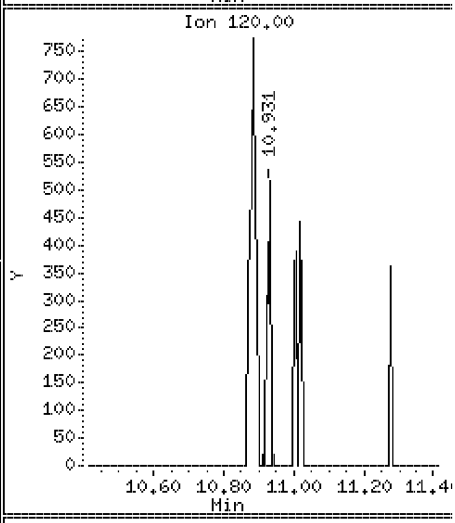


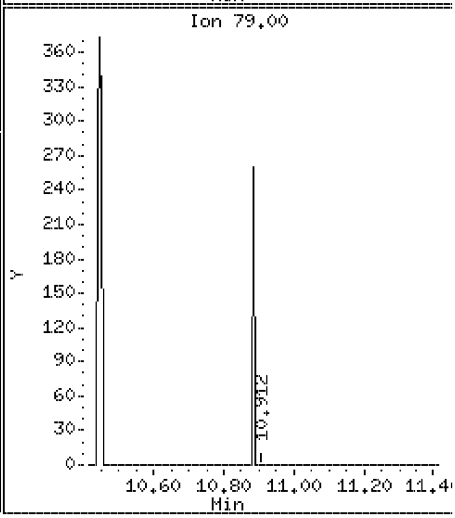












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

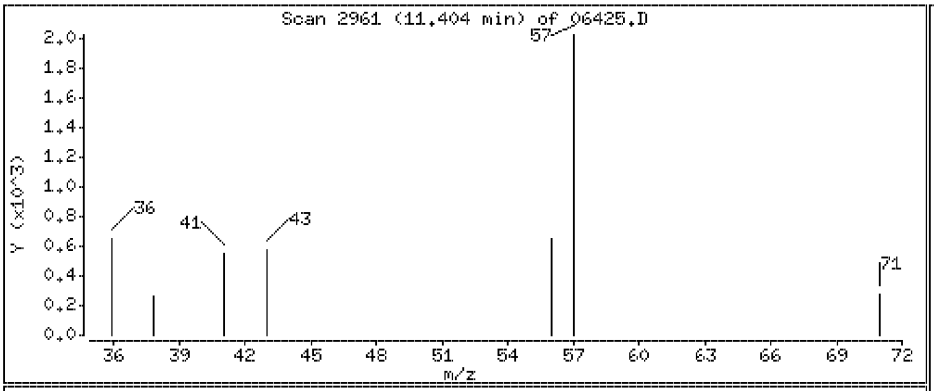
Operator: NCK

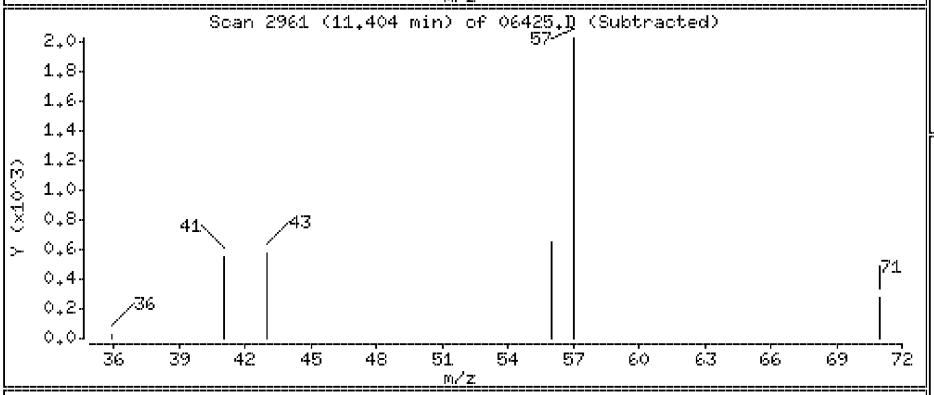
Column phase: J&W DB-5

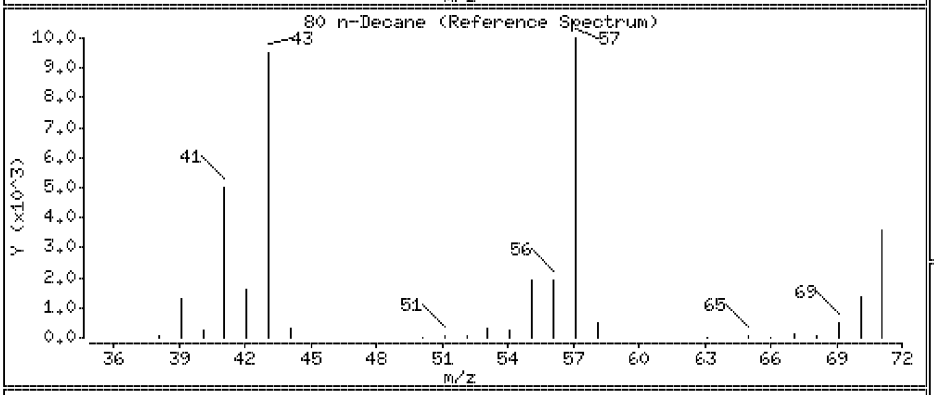
Column diameter: 0.32

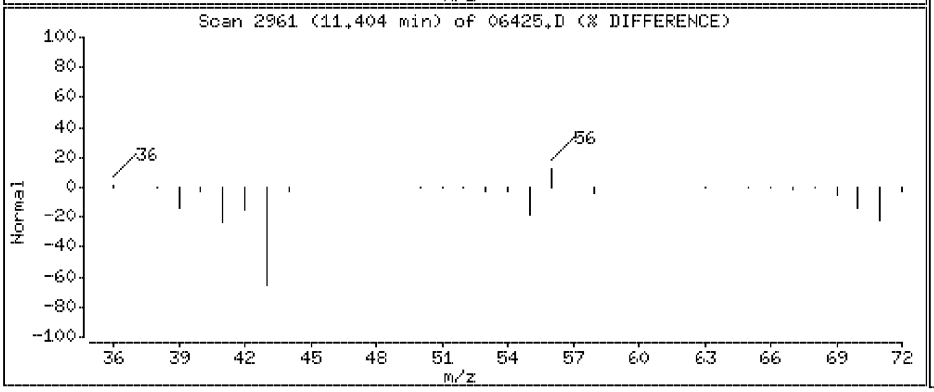
80 n-Decane

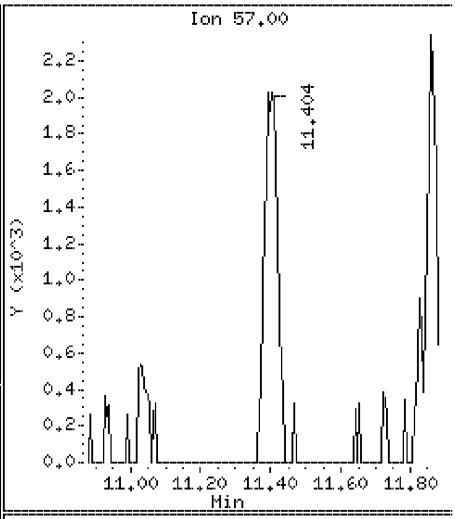
Concentration: 0.706 ppbv

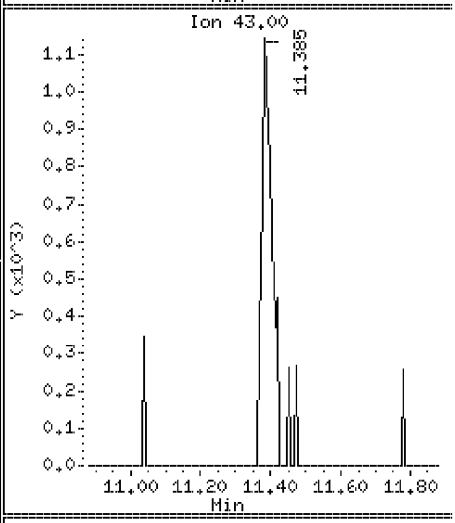


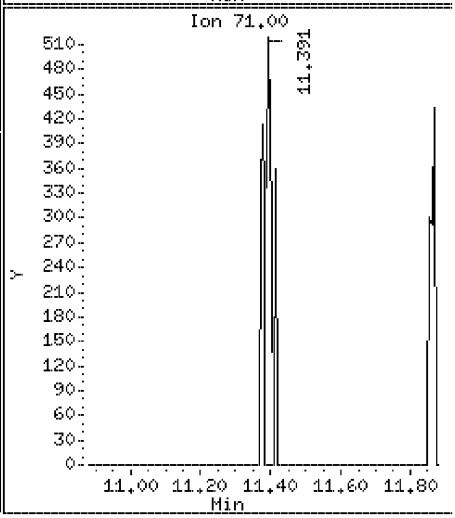












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

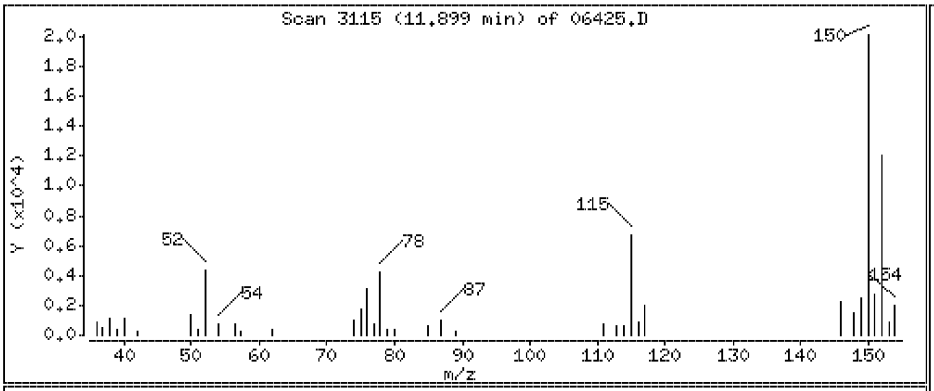
Operator: NCK

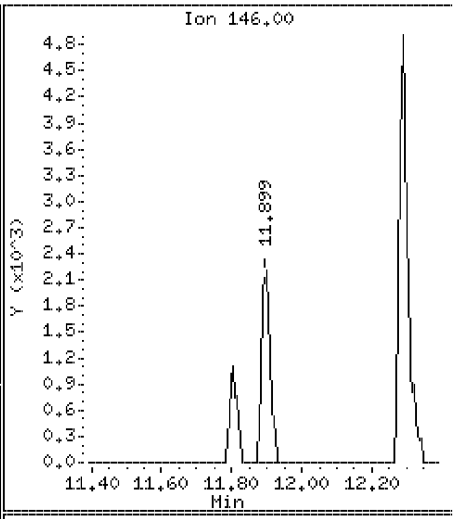
Column phase: J&W DB-5

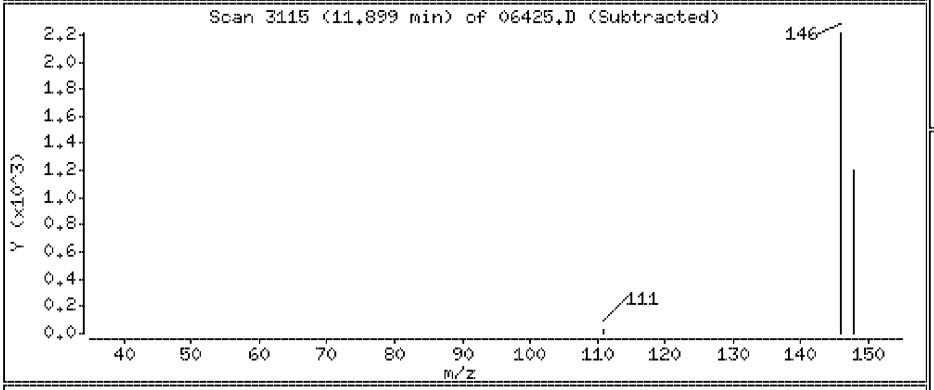
Column diameter: 0.32

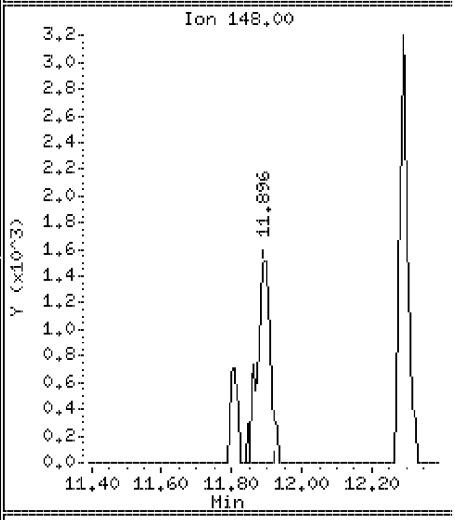
87 1,4-Dichlorobenzene

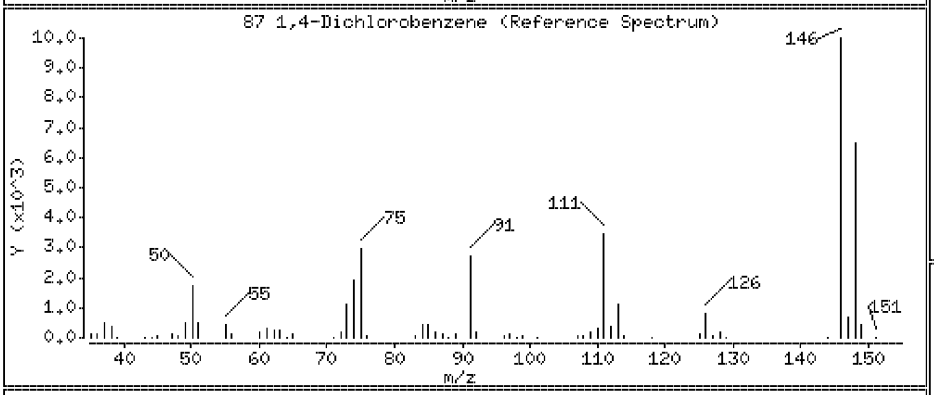
Concentration: 0.202 ppbv

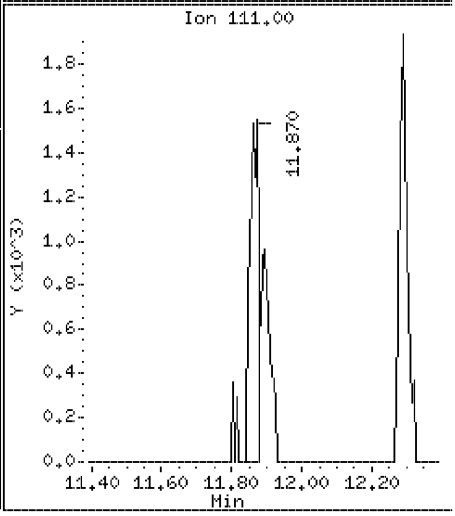


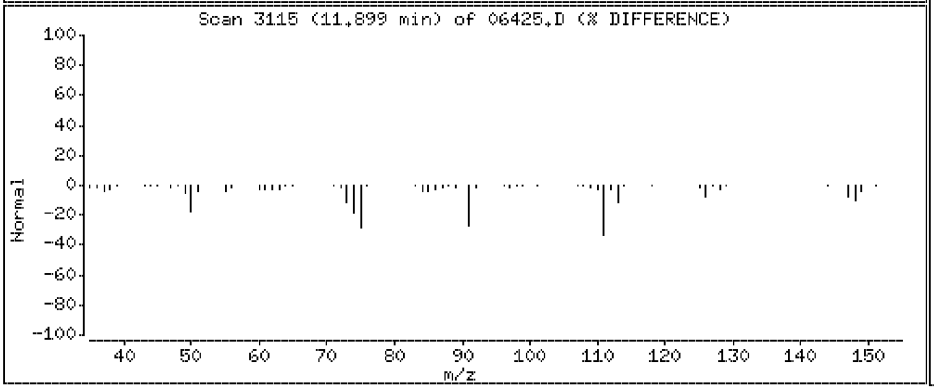












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

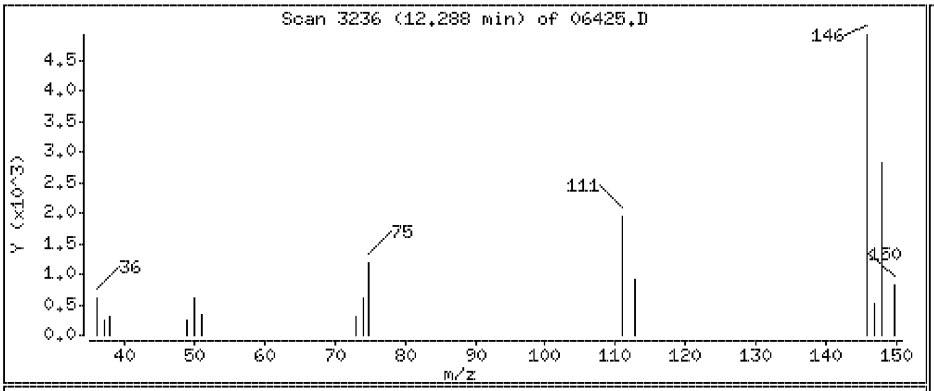
Operator: NCK

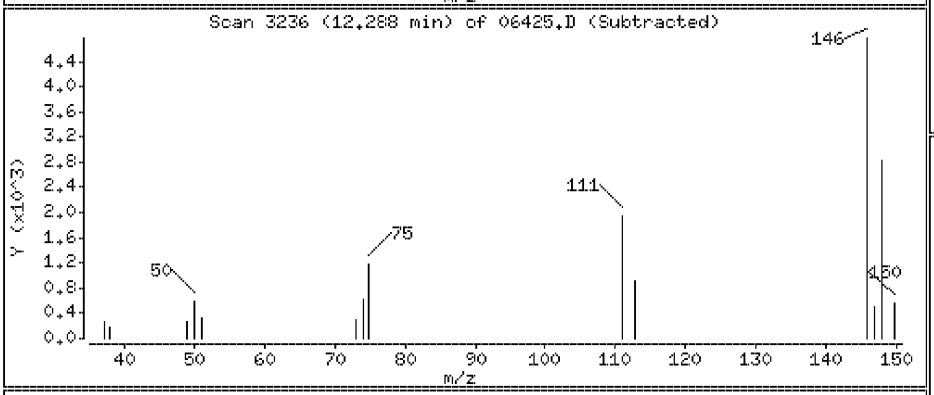
Column phase: J&W DB-5

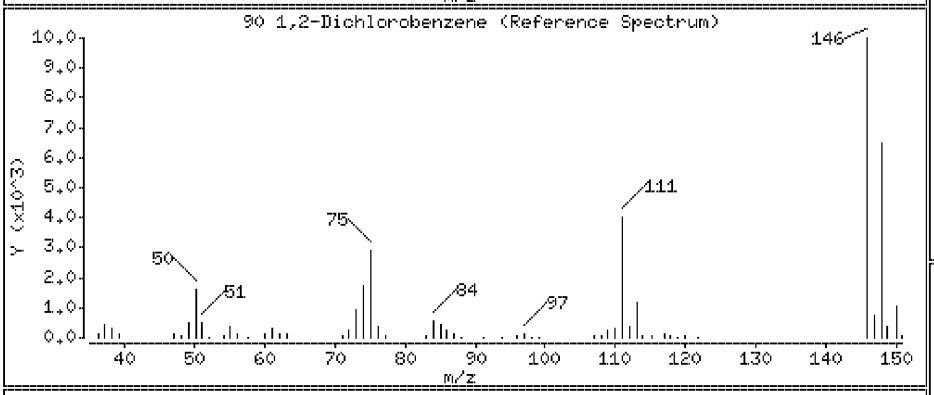
Column diameter: 0.32

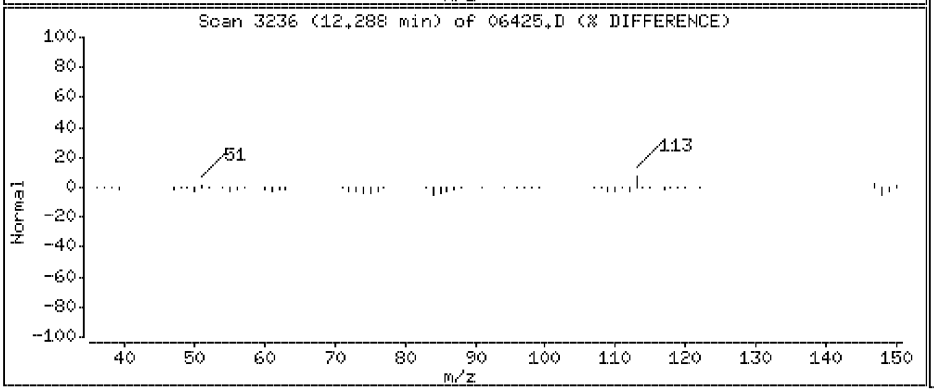
90 1,2-Dichlorobenzene

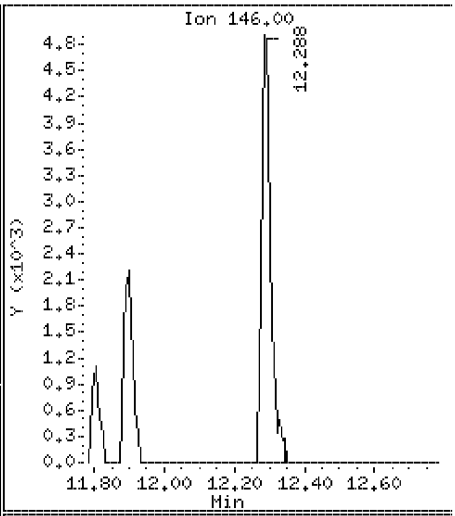
Concentration: 0.608 ppbv

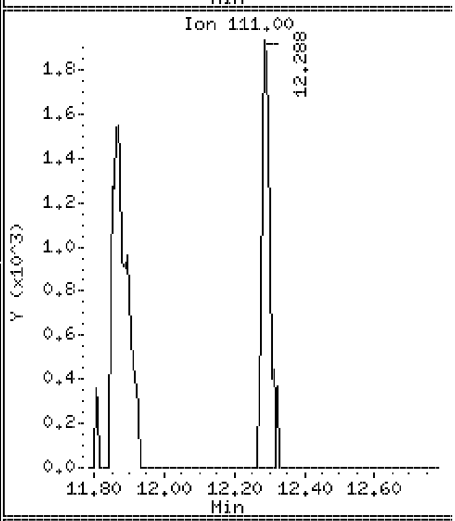


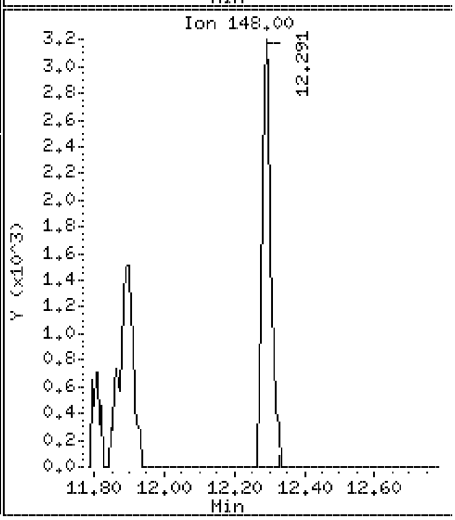












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06425.D

Date : 05-MAR-2017 21:33

Client ID:

Instrument: 10airB.i

Sample Info:

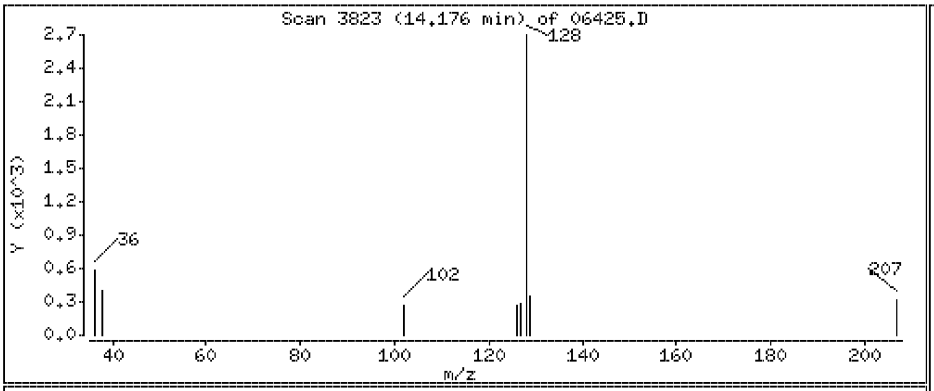
Operator: NCK

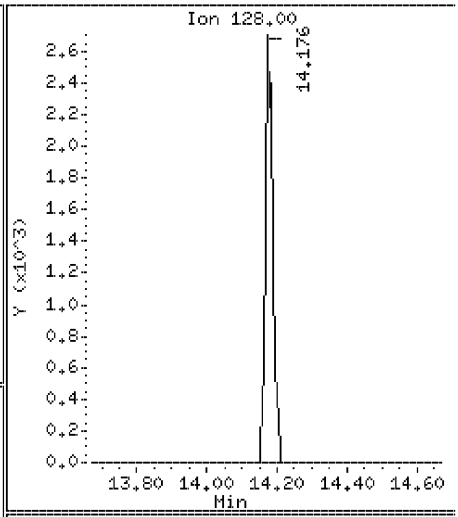
Column phase: J&W DB-5

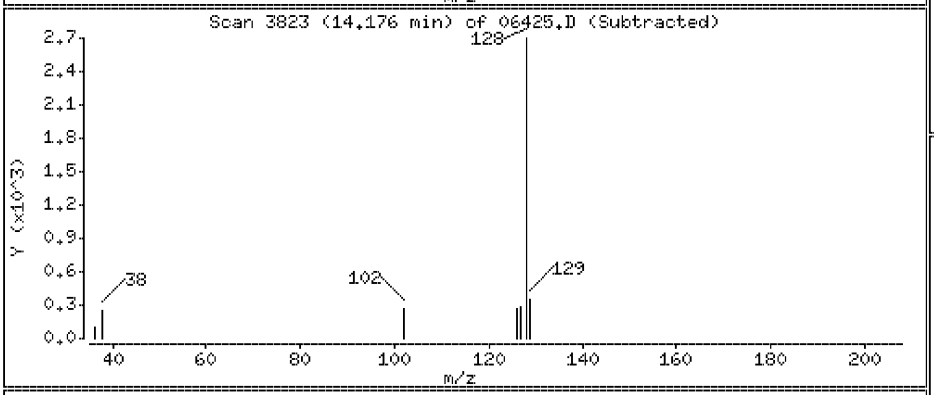
Column diameter: 0.32

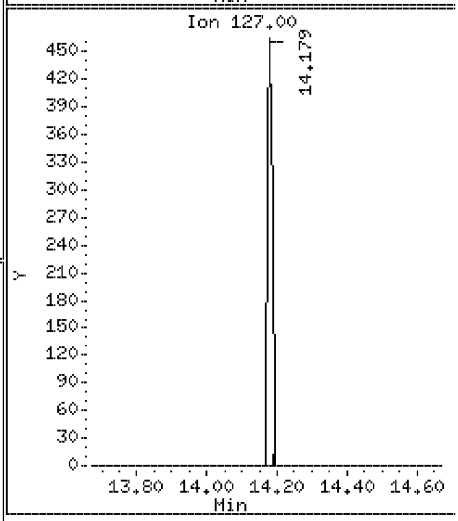
94 Naphthalene

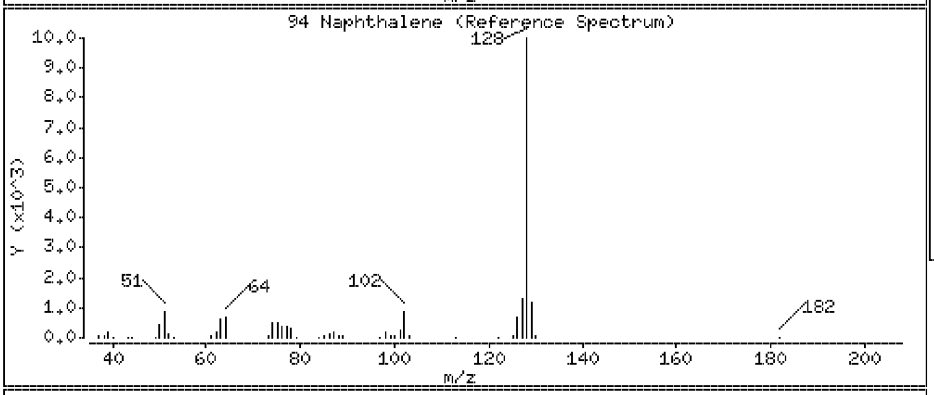
Concentration: 0.824 ppbv

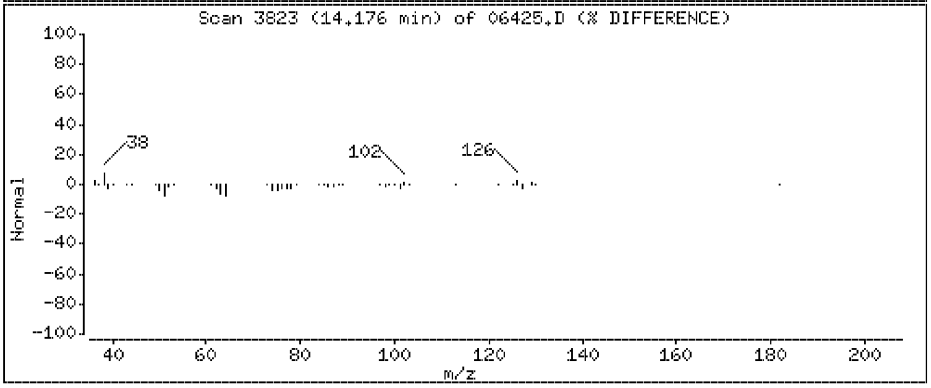






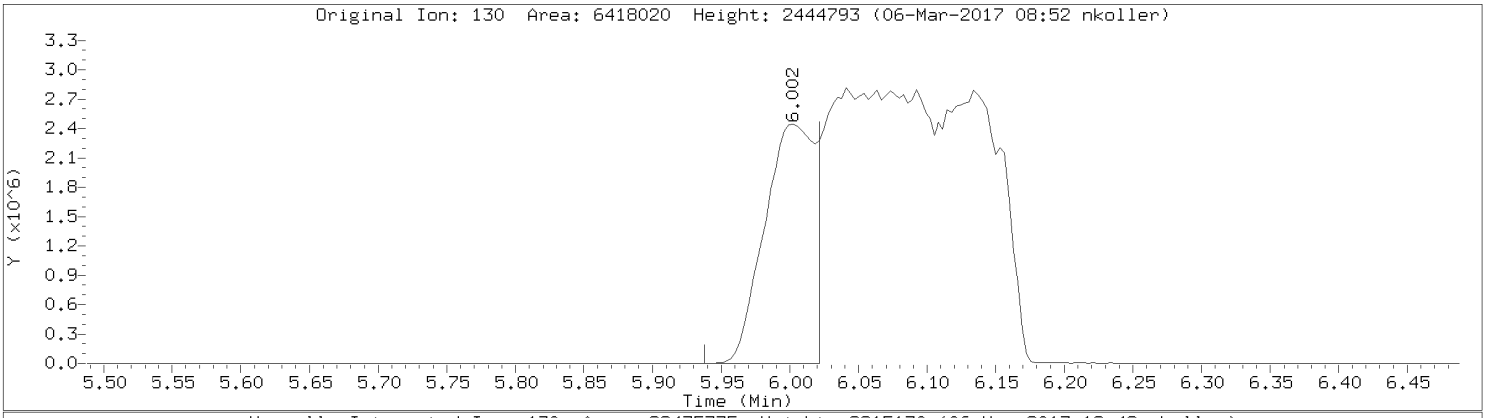


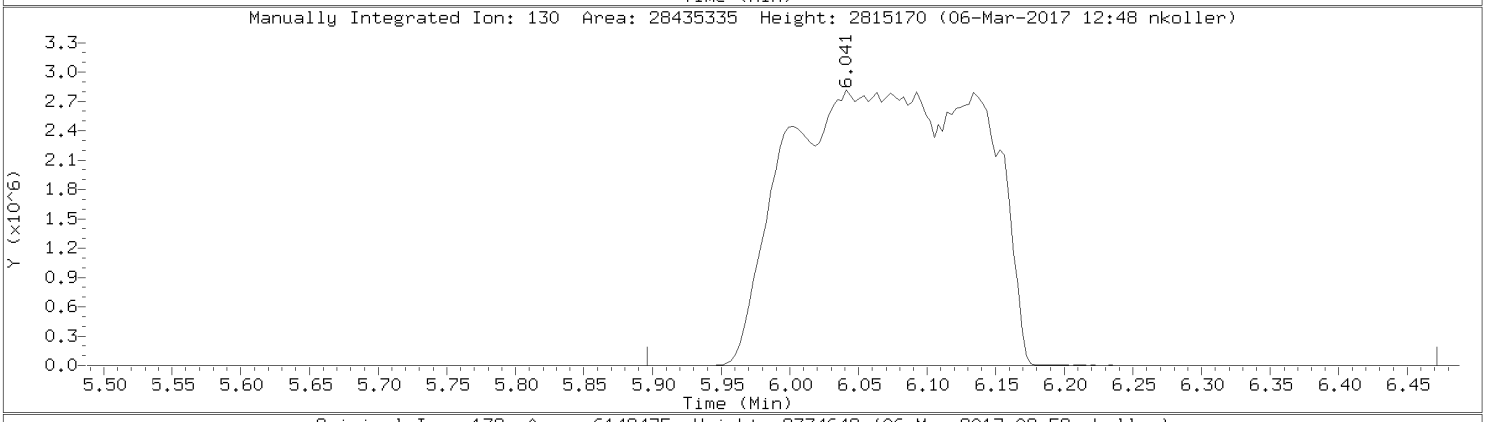


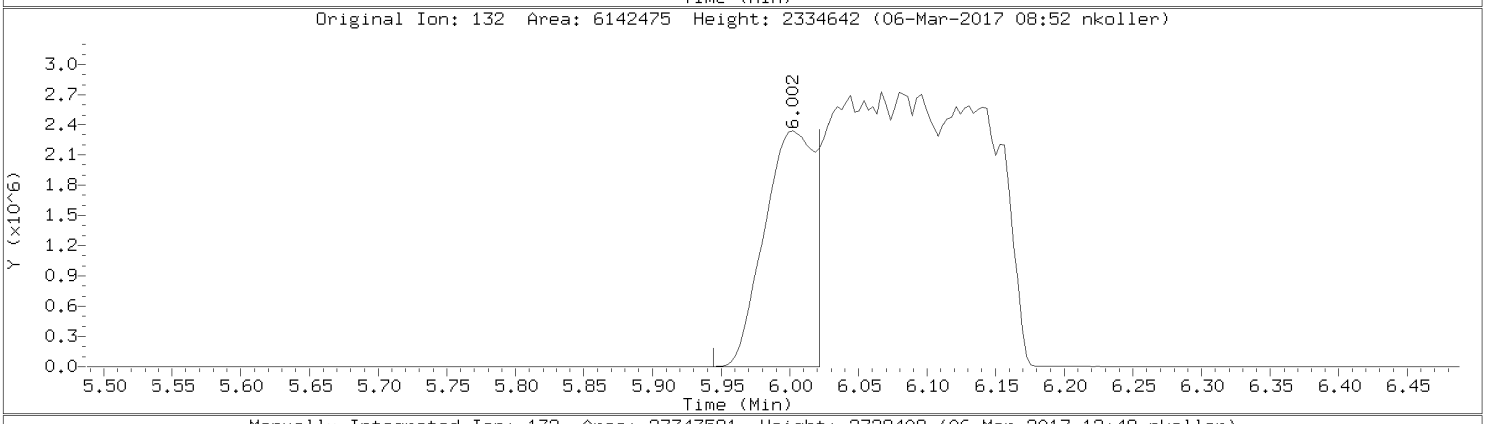


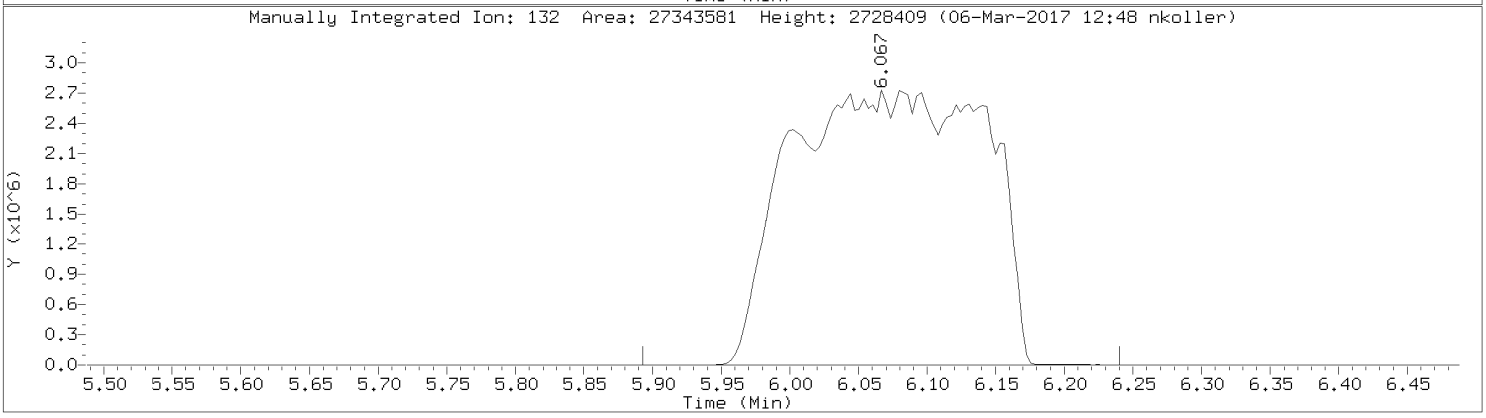
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06425.D
Injection Date: 05-MAR-2017 21:33
Instrument: 10airB.i
Lab Sample ID: 10380193006

Compound: Trichloroethene
CAS Number: 79-01-6

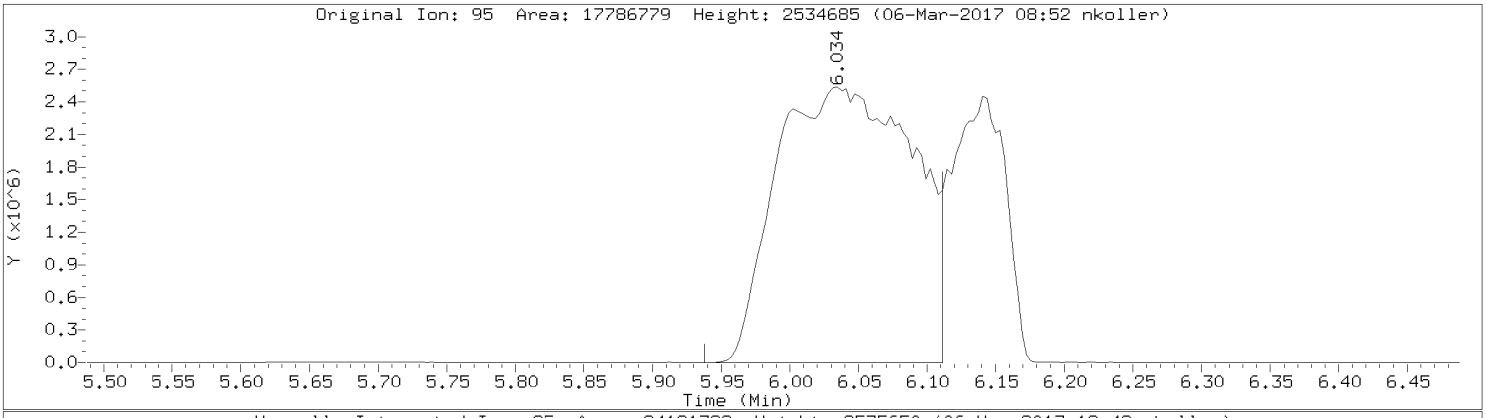


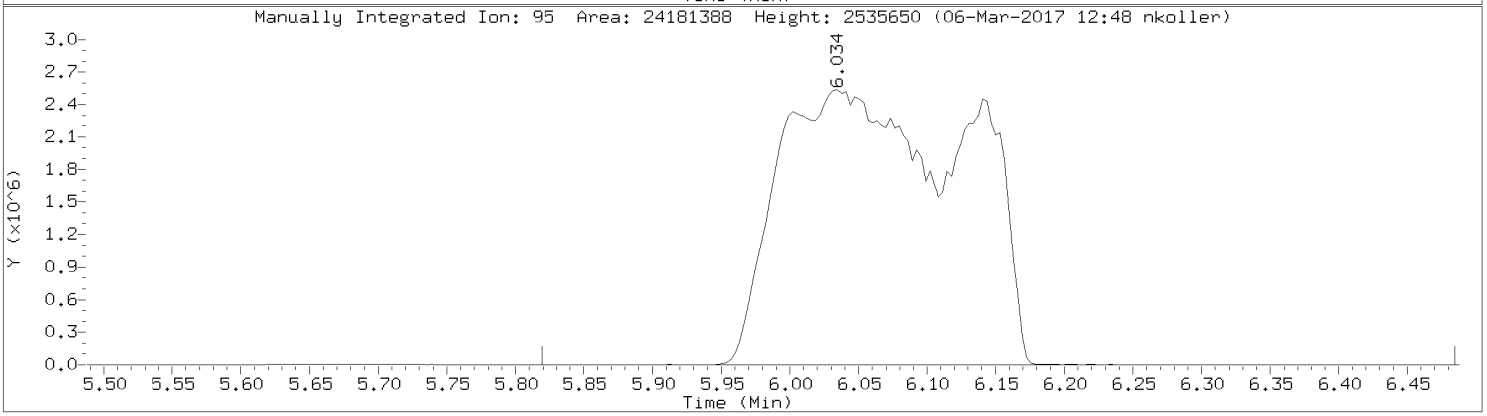






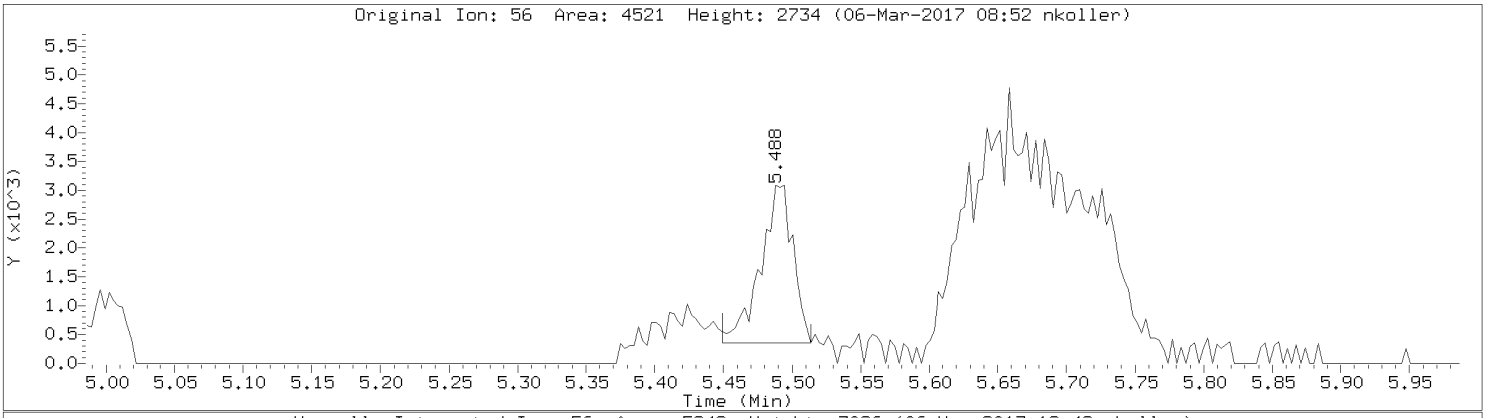
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06425.D
Injection Date: 05-MAR-2017 21:33
Instrument: 10airB.i
Lab Sample ID: 10380193006

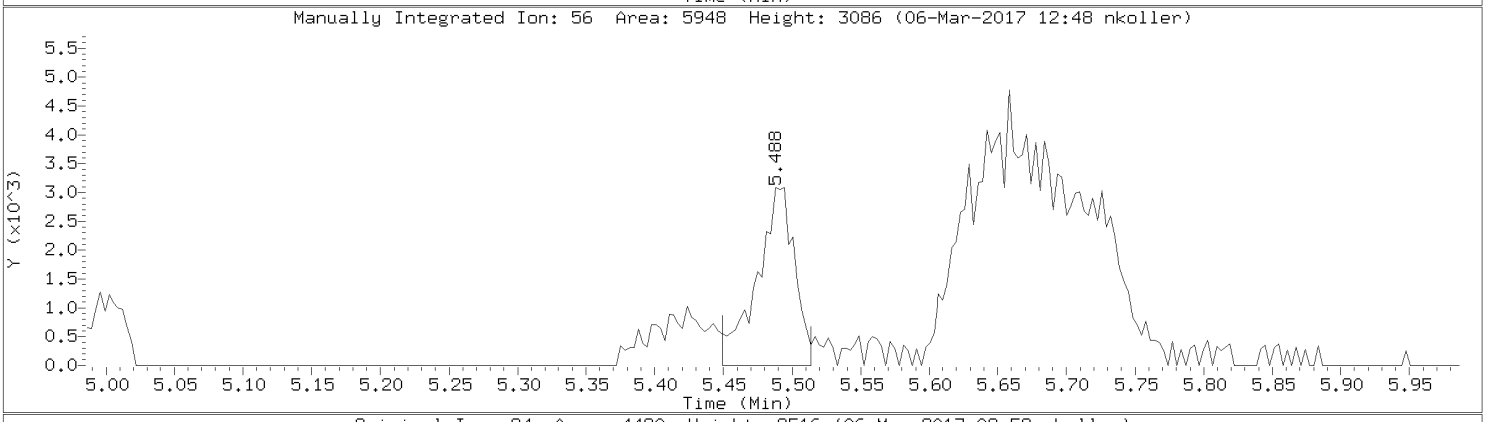


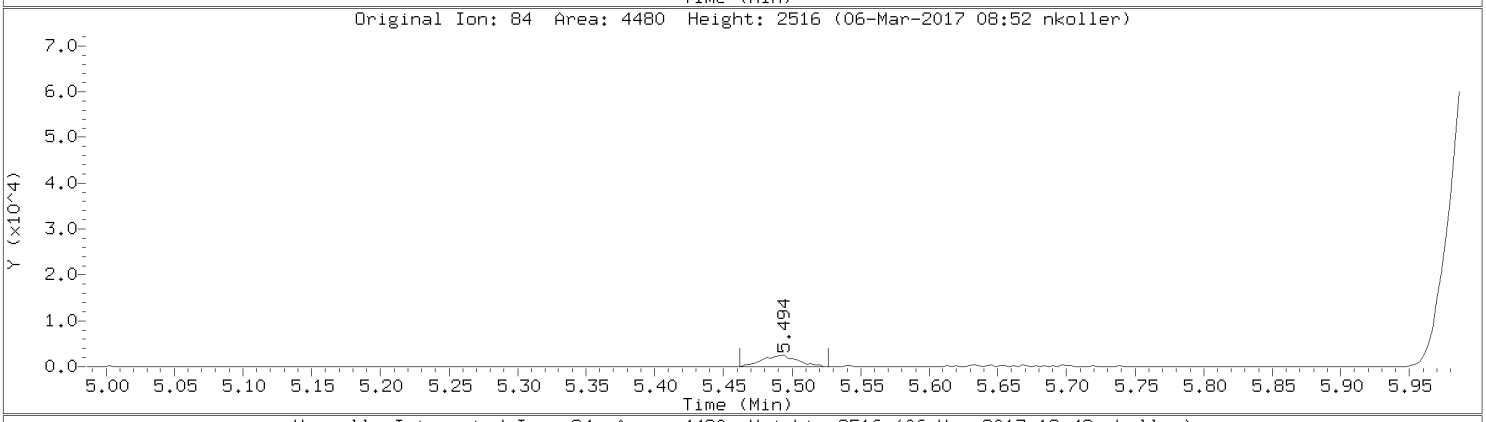


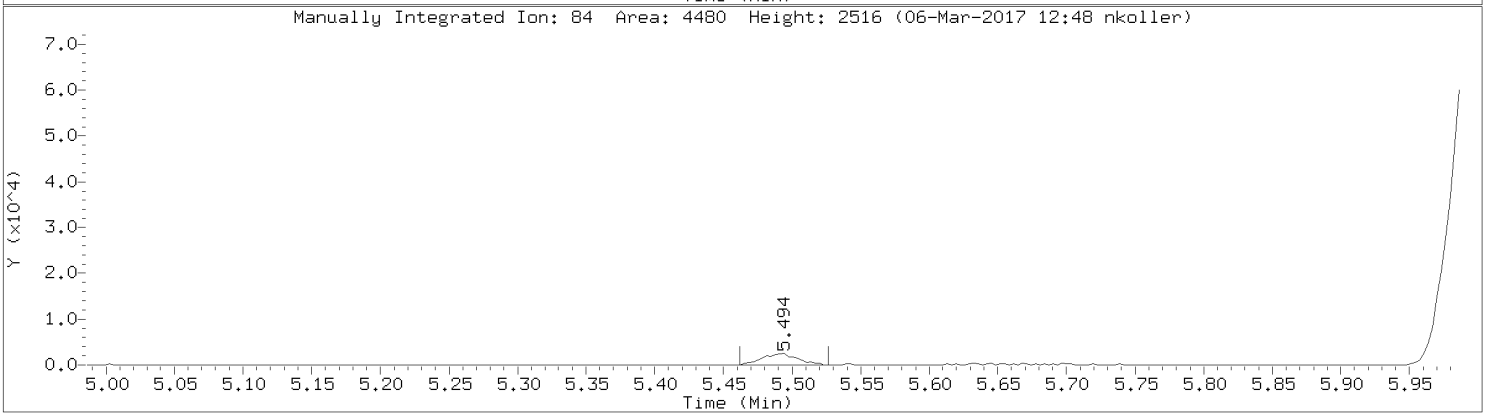
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06425.D
Injection Date: 05-MAR-2017 21:33
Instrument: 10airB.i
Lab Sample ID: 10380193006

Compound: Cyclohexane
CAS Number: 110-82-7

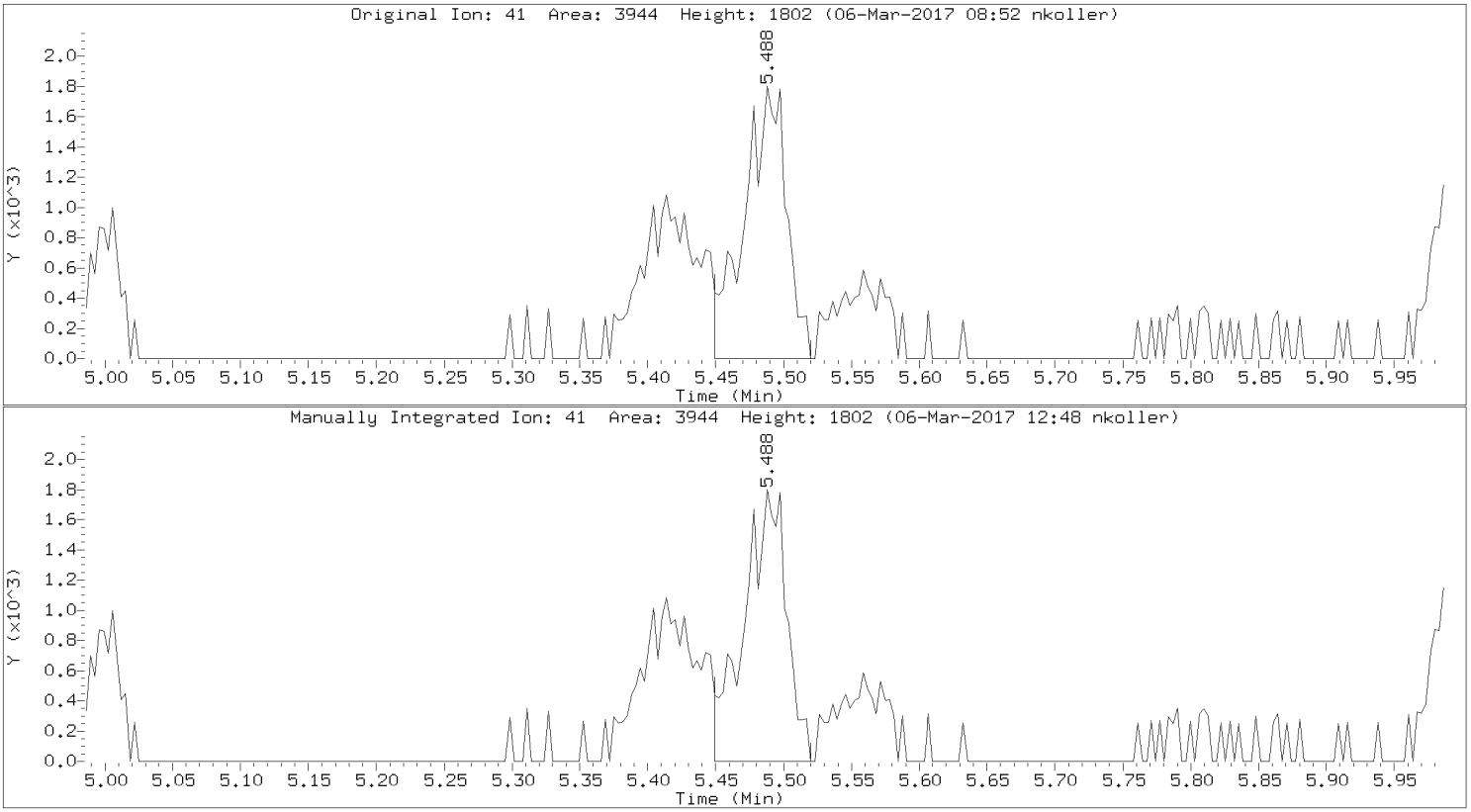






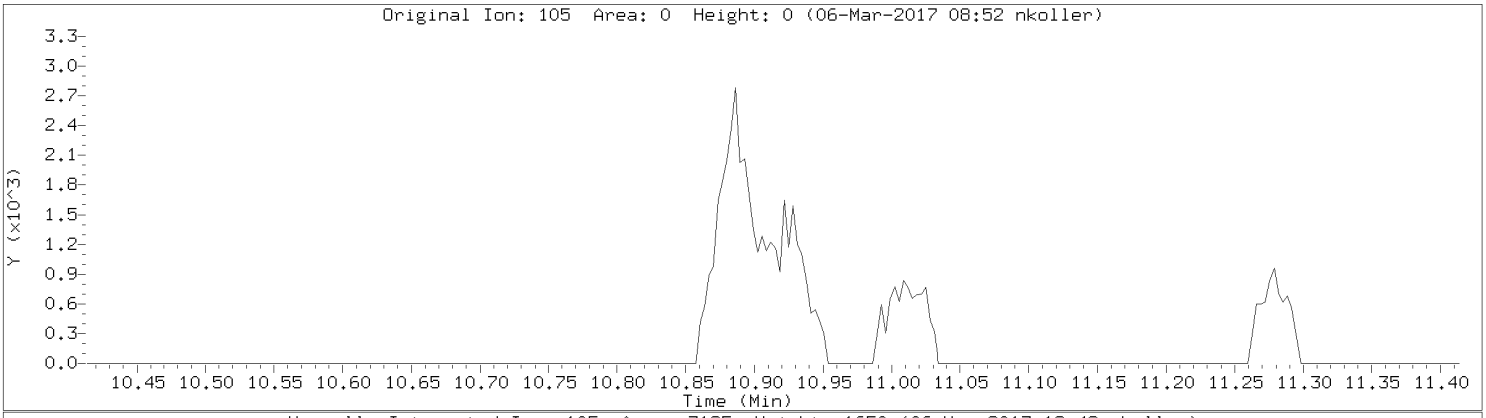


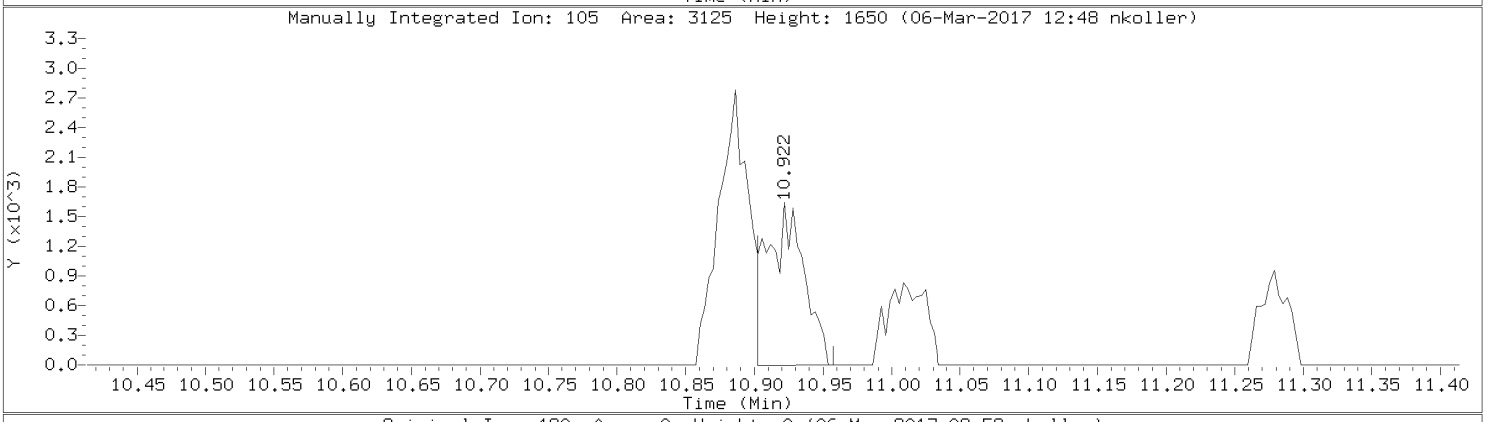
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06425.D
Injection Date: 05-MAR-2017 21:33
Instrument: 10airB.i
Lab Sample ID: 10380193006

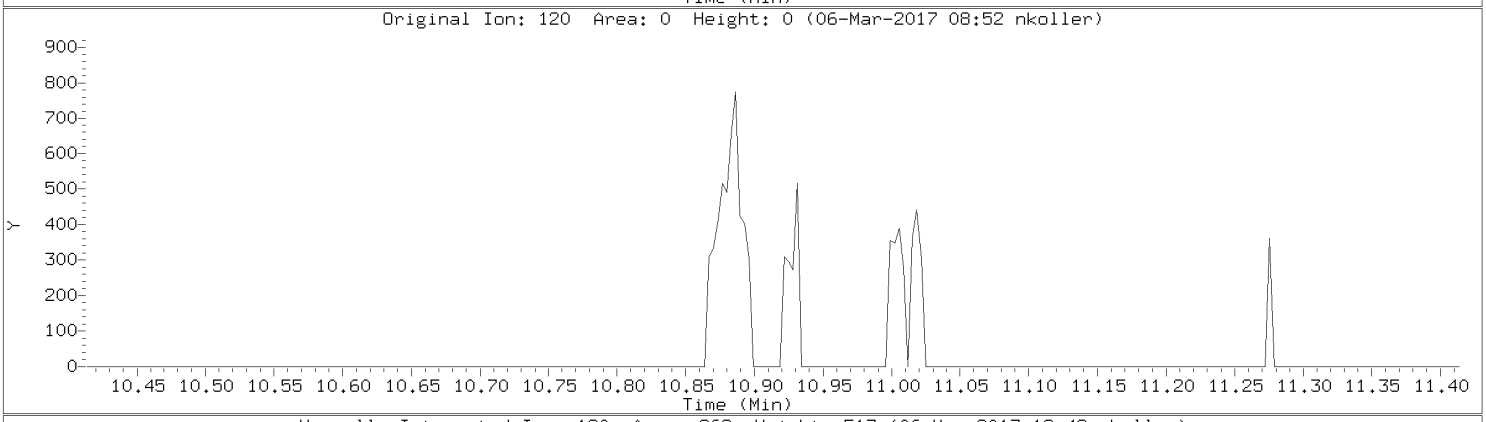


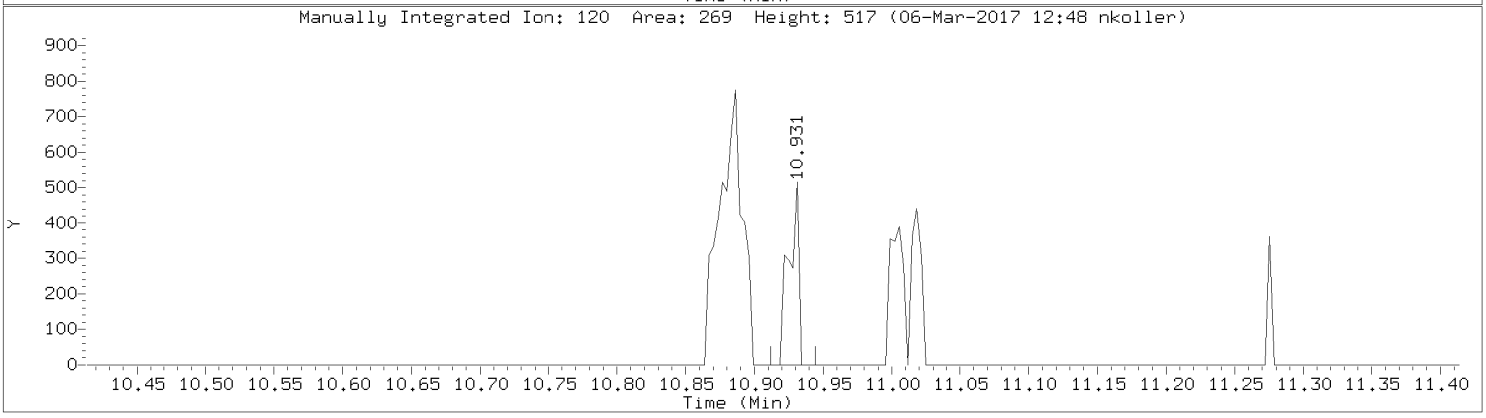
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06425.D
Injection Date: 05-MAR-2017 21:33
Instrument: 10airB.i
Lab Sample ID: 10380193006

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

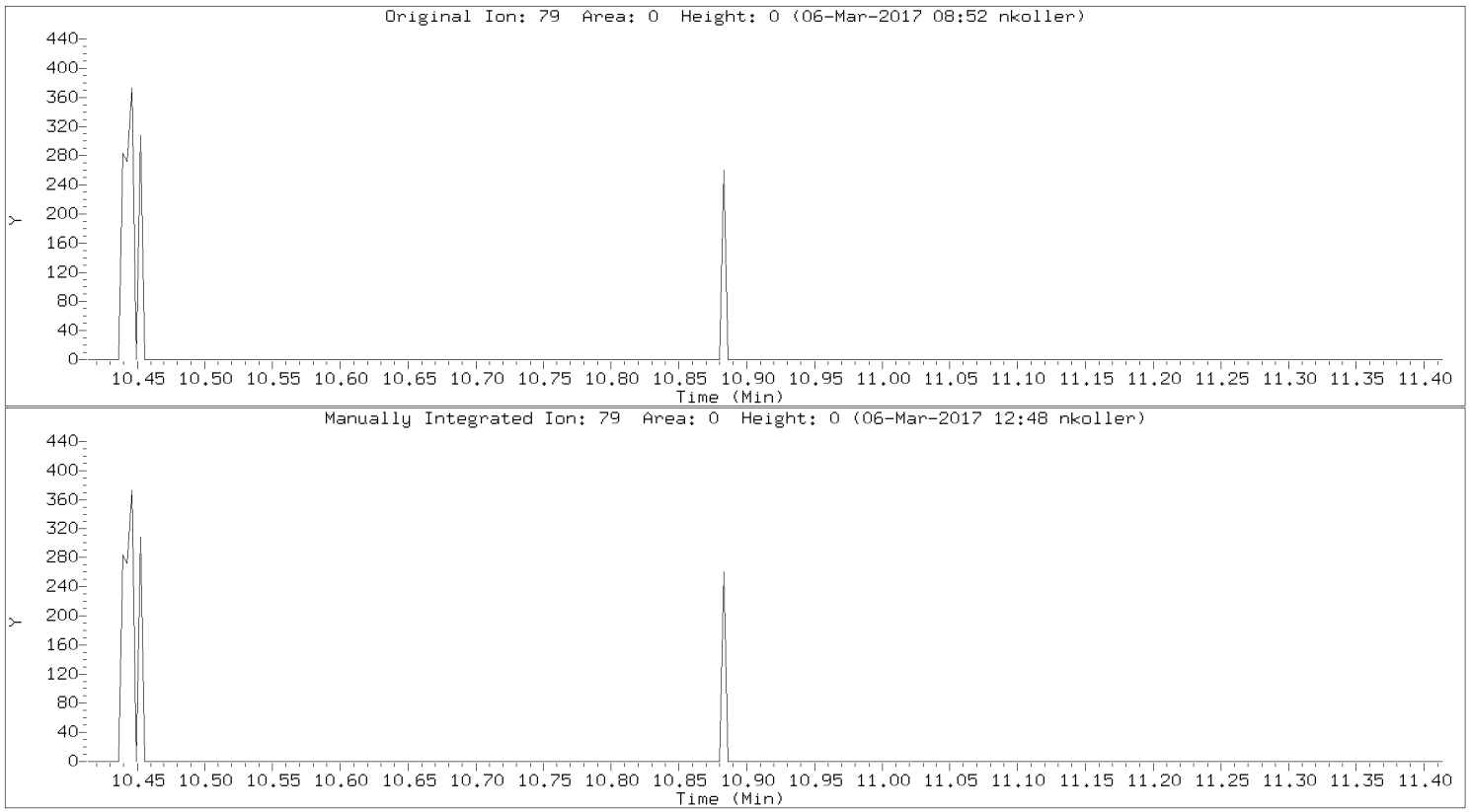








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06425.D
Injection Date: 05-MAR-2017 21:33
Instrument: 10airB.i
Lab Sample ID: 10380193006



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06511.D
Report Date: 07-Mar-2017 14:05

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06511.D
Lab Smp Id: 10380193006
Inj Date : 06-MAR-2017 13:38
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 13:55 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 11
Dil Factor: 9369.60000
Integrator: HP RTE Compound Sublist: dil.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	9369.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
	22 Freon 113	101	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	39 Chloroform	83	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1321054	10.0000		
	51 Trichloroethene	130	5.973	5.989	(1.067)	367847	16.5725	155000	
	66 Tetrachloroethene	166	7.979	7.989	(0.924)	3096	0.10615	995	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	839913	10.0000		

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06511.D
Report Date: 07-Mar-2017 14:05

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06511.D
Lab Smp Id: 10380193006
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

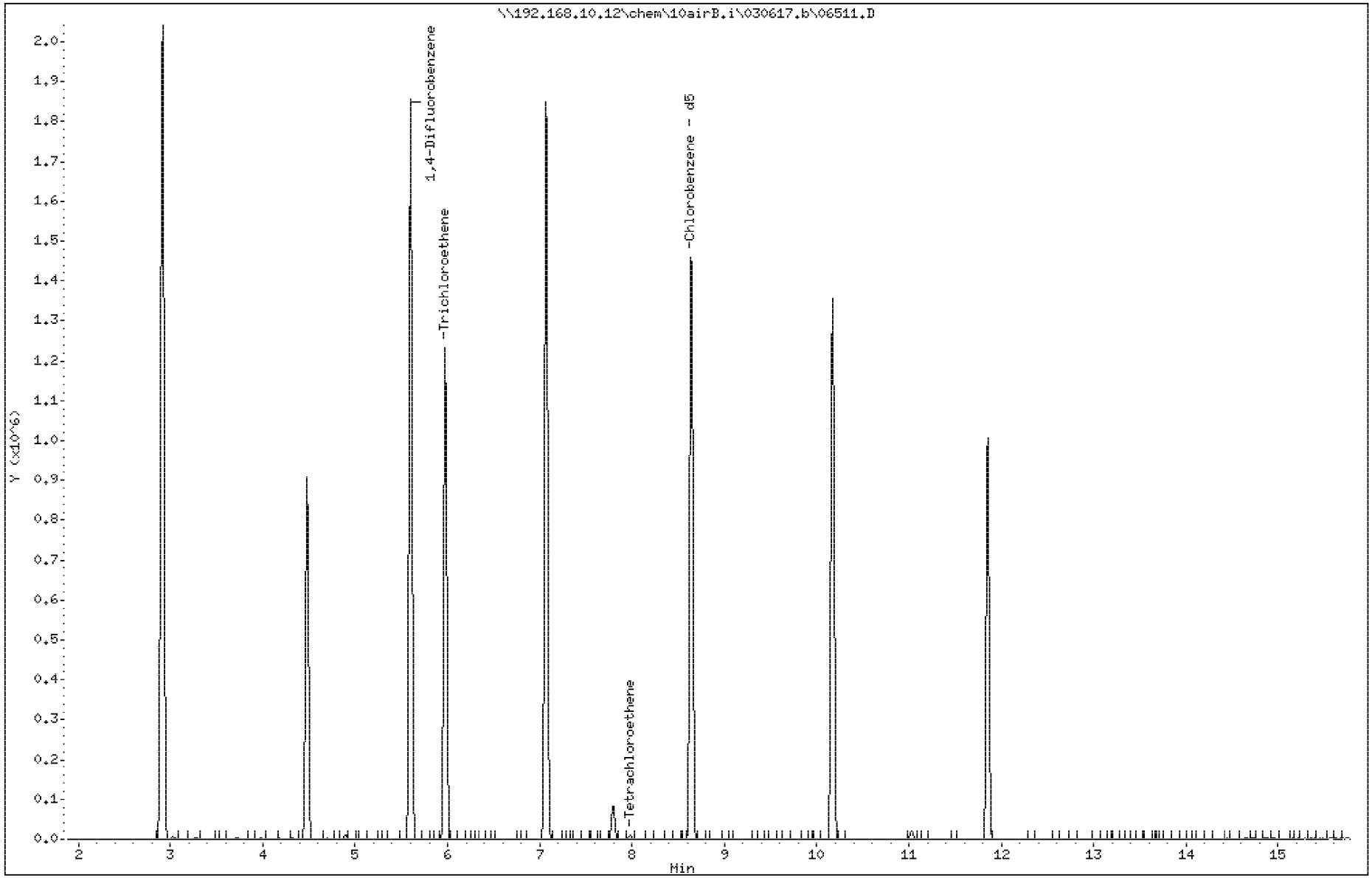
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1321054	-6.58
67 Chlorobenzene - d	951026	570616	1331436	839913	-11.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06511.D
Date : 06-MAR-2017 13:38
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06511.D

Date : 06-MAR-2017 13:38

Client ID:

Instrument: 10airB.i

Sample Info:

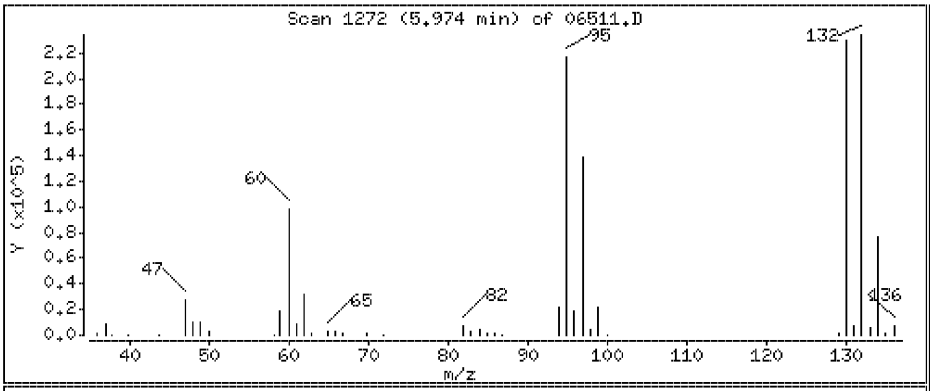
Operator: NCK

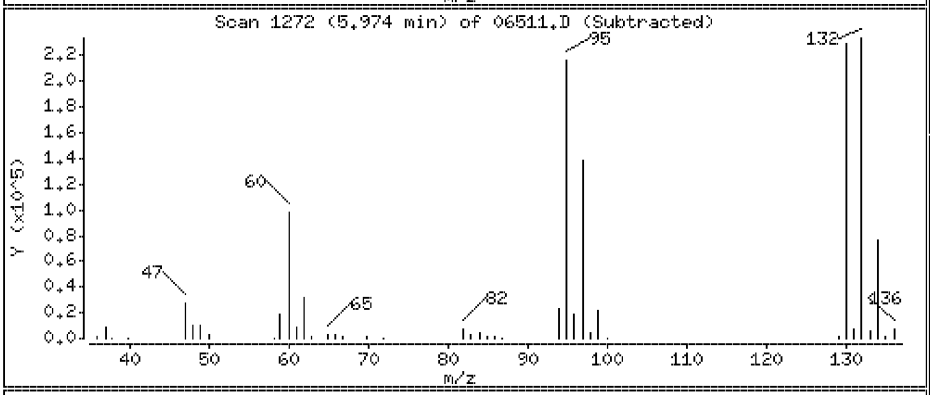
Column phase: J&W DB-5

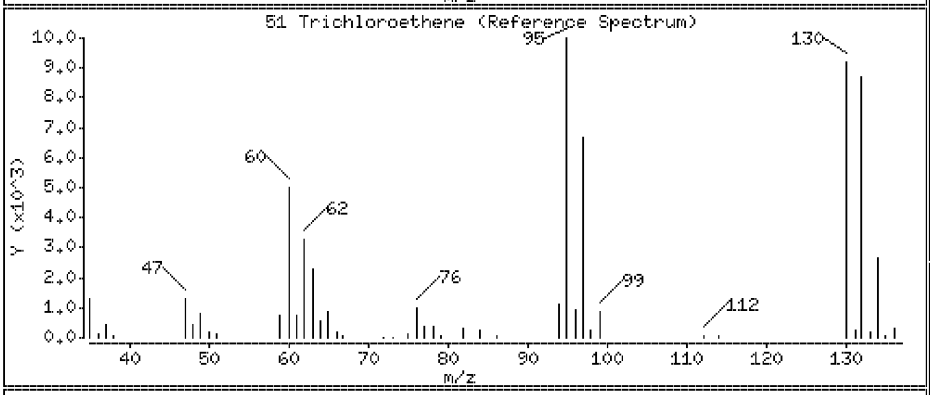
Column diameter: 0.32

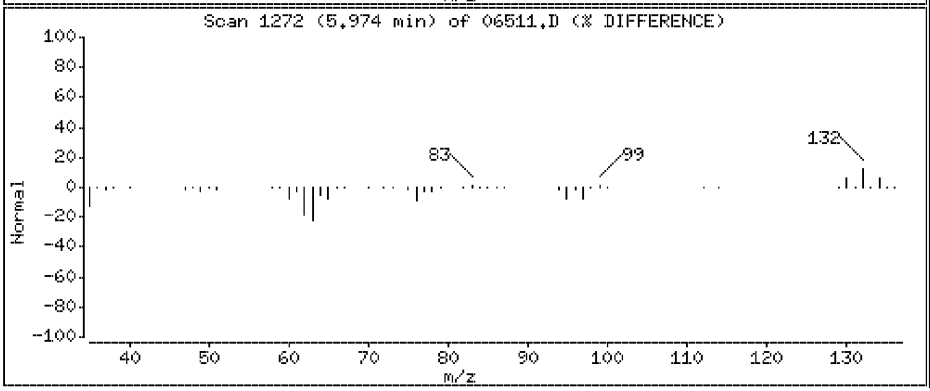
51 Trichloroethene

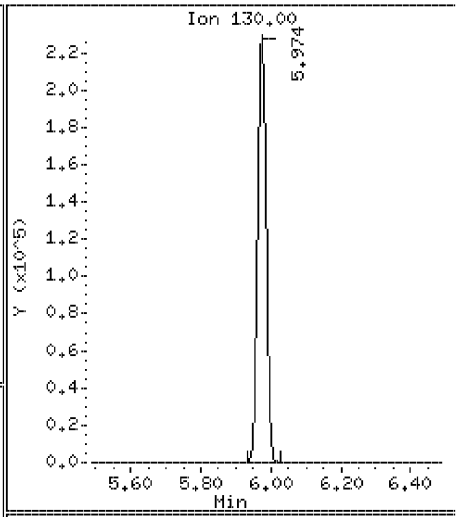
Concentration: 155000 ppbv

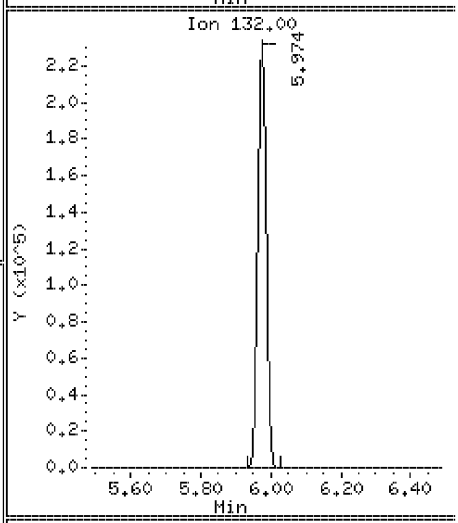


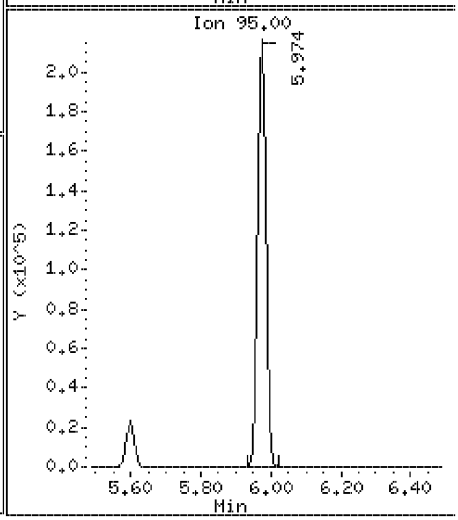












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06511.D

Date : 06-MAR-2017 13:38

Client ID:

Instrument: 10airB.i

Sample Info:

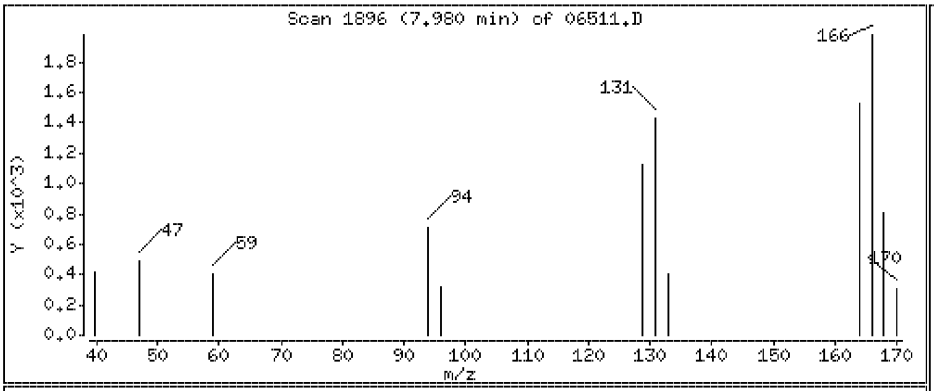
Operator: NCK

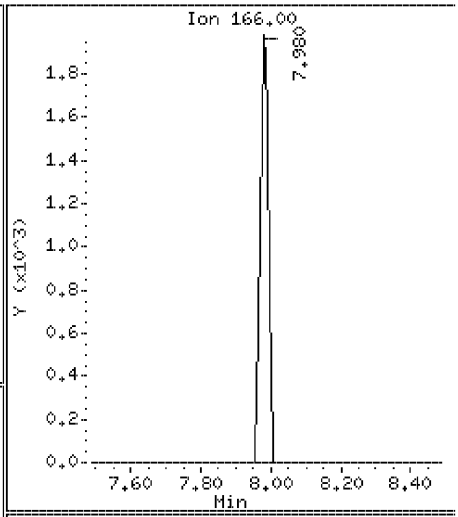
Column phase: J&W DB-5

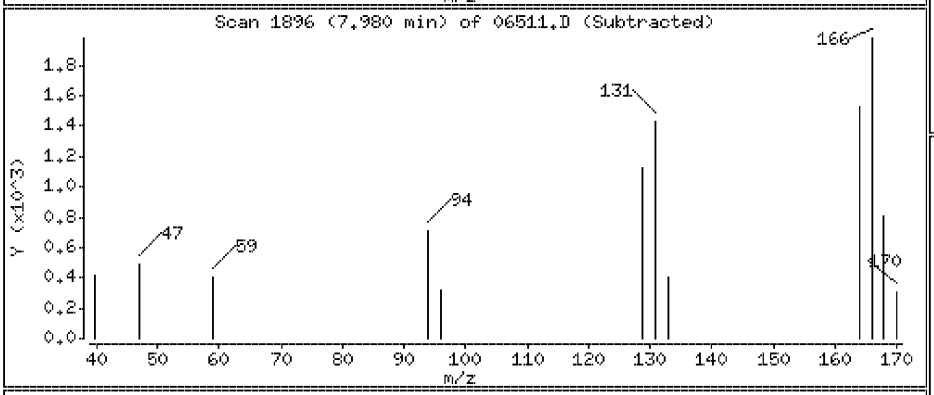
Column diameter: 0.32

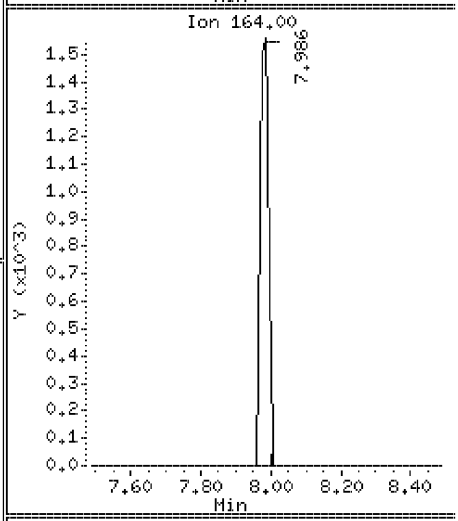
66 Tetrachloroethene

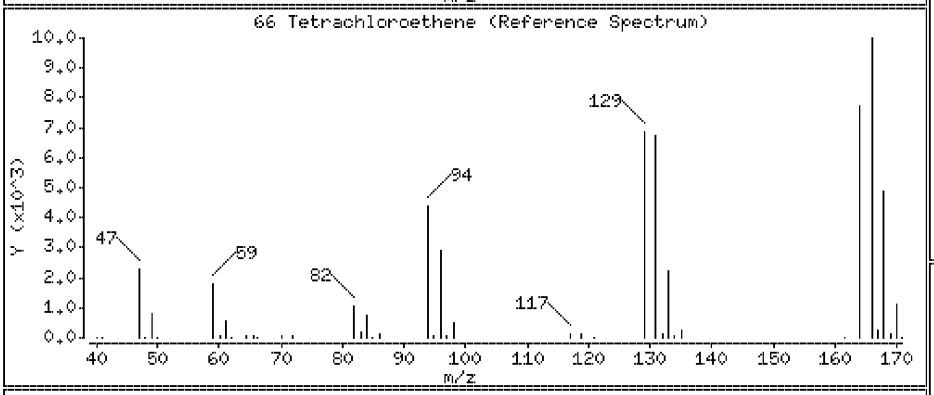
Concentration: 995 ppbv

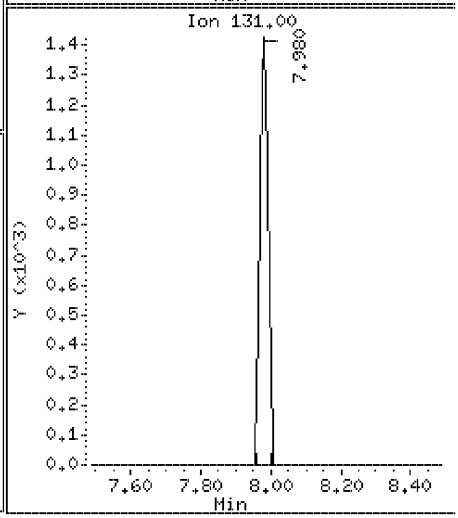


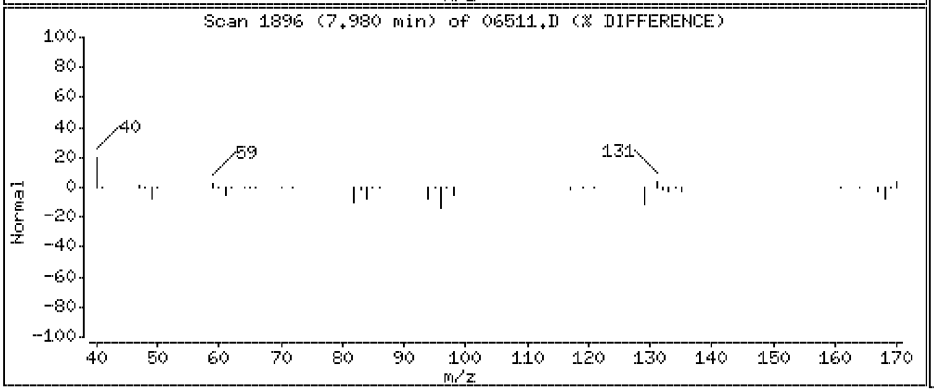












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06511.D
Injection Date: 06-MAR-2017 13:38
Instrument: 10airB.i
Lab Sample ID: 10380193006
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_50_20170223 **Lab ID: 10380193006** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**6860**	ug/m3	6460	2600	9369.6		03/06/17 13:38	127-18-4	A3
Toluene	**12.1**	ug/m3	1.4	0.28	1.83		03/05/17 21:33	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/05/17 21:33	120-82-1	
1,1,1-Trichloroethane	**1.5J**	ug/m3	2.0	0.45	1.83		03/05/17 21:33	71-55-6	
1,1,2-Trichloroethane	**162**	ug/m3	1.0	0.45	1.83		03/05/17 21:33	79-00-5	
Trichloroethene	**12400**	ug/m3	1.0	0.51	1.83		03/05/17 21:33	79-01-6	
Trichloroethene	**848000**	ug/m3	5150	2590	9369.6		03/06/17 13:38	79-01-6	A3
Trichlorofluoromethane	**8.4**	ug/m3	2.1	0.24	1.83		03/05/17 21:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	**239**	ug/m3	2.9	0.55	1.83		03/05/17 21:33	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/05/17 21:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/05/17 21:33	108-67-8	
Vinyl chloride	**1.3**	ug/m3	0.48	0.36	1.83		03/05/17 21:33	75-01-4	
m&p-Xylene	**17.0**	ug/m3	3.2	1.4	1.83		03/05/17 21:33	179601-23-1	
o-Xylene	**3.9**	ug/m3	1.6	0.64	1.83		03/05/17 21:33	95-47-6	

Sample: VP-9_10_20170223 **Lab ID: 10380193007** Collected: 02/23/17 11:56 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**12.6**	ug/m3	4.6	1.6	1.92		03/05/17 22:04	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 22:04	107-05-1	
Benzene	**0.85**	ug/m3	0.62	0.23	1.92		03/05/17 22:04	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 22:04	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 22:04	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 22:04	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 22:04	106-99-0	
2-Butanone (MEK)	**<0.44**	ug/m3	5.8	0.44	1.92		03/05/17 22:04	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 22:04	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/05/17 22:04	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 22:04	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/05/17 22:04	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 22:04	75-00-3	
Chloroform	**2.4**	ug/m3	0.95	0.36	1.92		03/05/17 22:04	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/05/17 22:04	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 22:04	76-15-3	CL
Cyclohexane	**2.9**	ug/m3	1.3	0.61	1.92		03/05/17 22:04	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 22:04	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 22:04	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 22:04	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 22:04	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 22:04	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 22:04	106-46-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_10_20170223 **Lab ID: 10380193007** Collected: 02/23/17 11:56 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Dichlorodifluoromethane	**2.1**	ug/m3	1.9	0.92	1.92		03/05/17 22:04	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 22:04	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 22:04	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 22:04	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/05/17 22:04	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/05/17 22:04	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 22:04	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 22:04	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 22:04	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 22:04	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 22:04	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 22:04	123-91-1	
Ethylbenzene	**5.8**	ug/m3	1.7	0.82	1.92		03/05/17 22:04	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.9	0.36	1.92		03/05/17 22:04	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/05/17 22:04	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.4	0.69	1.92		03/05/17 22:04	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 22:04	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 22:04	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 22:04	79-20-9	
Methylcyclohexane	**1.1J**	ug/m3	1.6	0.46	1.92		03/05/17 22:04	108-87-2	
Methylene Chloride	**8.7**	ug/m3	6.8	1.0	1.92		03/05/17 22:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 22:04	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/05/17 22:04	1634-04-4	
2-Propanol	**<0.46**	ug/m3	4.8	0.46	1.92		03/05/17 22:04	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/05/17 22:04	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 22:04	79-34-5	
Tetrachloroethene	**13.4**	ug/m3	1.3	0.53	1.92		03/05/17 22:04	127-18-4	
Toluene	**16.6**	ug/m3	1.5	0.30	1.92		03/05/17 22:04	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/05/17 22:04	120-82-1	
1,1,1-Trichloroethane	**1.4J**	ug/m3	2.1	0.47	1.92		03/05/17 22:04	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/05/17 22:04	79-00-5	
Trichloroethene	**108**	ug/m3	1.1	0.53	1.92		03/05/17 22:04	79-01-6	
Trichlorofluoromethane	**1.1J**	ug/m3	2.2	0.25	1.92		03/05/17 22:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/05/17 22:04	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.9	0.24	1.92		03/05/17 22:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/05/17 22:04	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 22:04	75-01-4	
m&p-Xylene	**23.0**	ug/m3	3.4	1.5	1.92		03/05/17 22:04	179601-23-1	
o-Xylene	**5.4**	ug/m3	1.7	0.67	1.92		03/05/17 22:04	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D
Report Date: 06-Mar-2017 12:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06426.D
Lab Smp Id: 10380193007
Inj Date : 05-MAR-2017 22:04
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 26
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.021	(0.546)	11073	0.21676	0.416	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.542	(0.633)	41757	8.56475	16.4	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.581	3.578	(0.639)	9648	0.59425	1.14	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.658	3.655	(0.653)	3670	0.10089	0.194	(M)
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.719	3.713	(0.664)	57053	2.70999	5.20	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D
Report Date: 06-Mar-2017 12:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	3.992	(0.712)	19018	1.27987	2.46	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	4.433	4.385	(0.792)	3491	0.28152	0.541(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.481	(0.801)	380172	9.00563	9.01	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.574	4.578	(0.817)	3738	0.17666	0.339(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.716	4.713	(0.842)	14522	0.53327	1.02(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.815	4.838	(0.860)	6817	0.24799	0.476	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.214	5.227	(0.931)	4400	0.13606	0.261	
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.455	5.465	(0.974)	5838	0.13643	0.262	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.481	5.484	(0.979)	9146	0.42695	0.820(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1326873	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.880	5.889	(1.050)	3599	0.15052	0.289	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.976	5.986	(1.067)	229104	10.2765	19.7	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	6.420	6.430	(1.146)	1765	0.14617	0.281	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1129890	9.51416	9.51	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.147	7.153	(1.276)	121076	2.25929	4.34	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.574	7.584	(0.876)	6863	0.23157	0.445(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.982	7.986	(0.924)	30524	1.01453	1.95	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	866451	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.928	8.934	(1.033)	43653	0.68499	1.32	
	70 m&p-Xylene	91	9.076	9.082	(1.050)	135990	2.71877	5.22	
	71 n-Nonane	43	9.468	9.468	(1.096)	4088	0.15846	0.304(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.574	9.581	(1.108)	32334	0.63540	1.22	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D
Report Date: 06-Mar-2017 12:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.908	10.912	(1.262)	2783	0.13635	0.262(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.394	11.378	(2.035)	8849	0.49187	0.944(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.506	11.513	(1.331)	6511	0.12650	0.243	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	469192	9.83016	9.83	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.169	(1.640)	2619	0.41300	0.793(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D
Report Date: 06-Mar-2017 12:59

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06426.D
Lab Smp Id: 10380193007
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

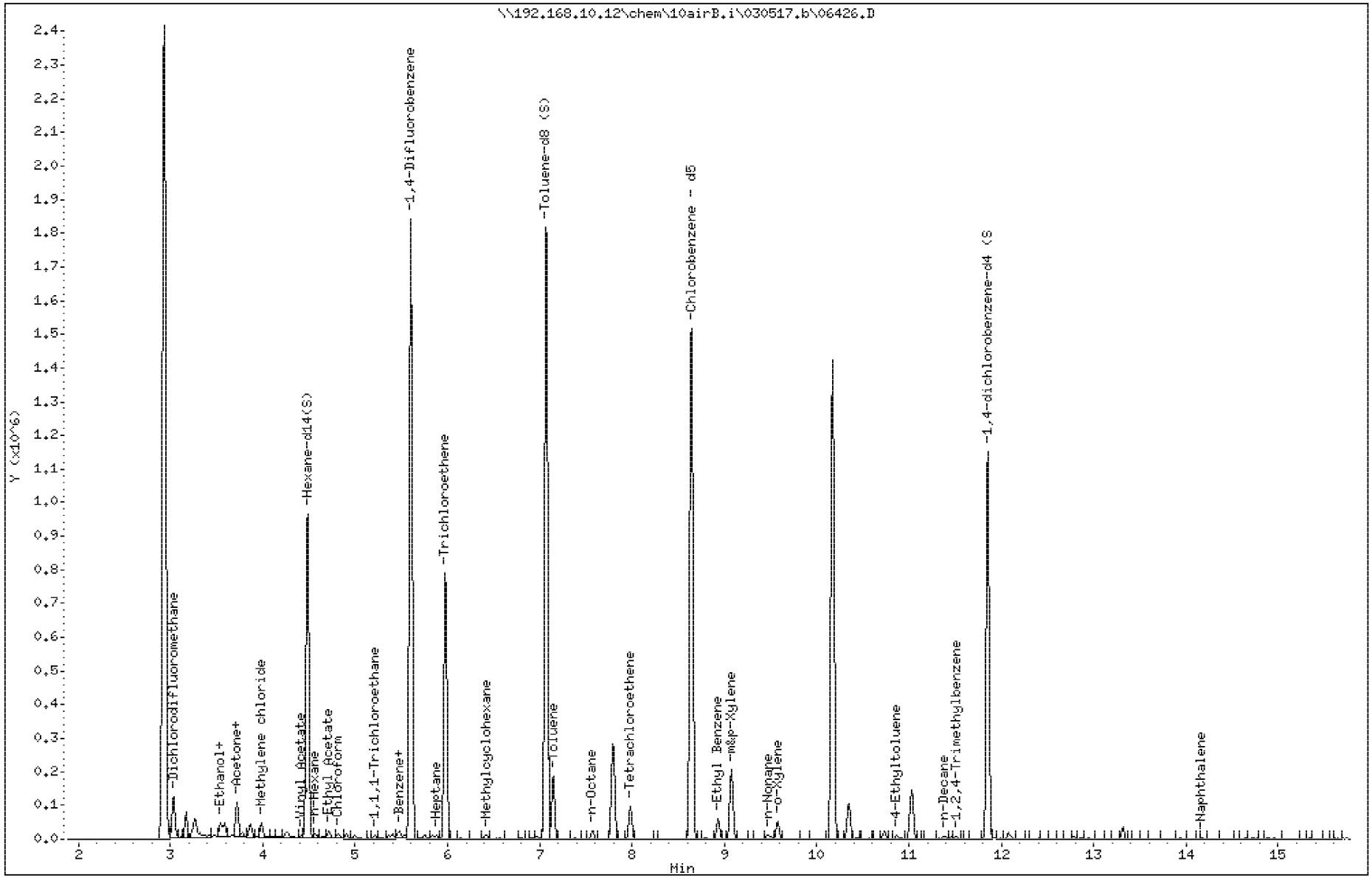
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1326873	-6.17
67 Chlorobenzene - d	951026	570616	1331436	866451	-8.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D
Date : 05-MAR-2017 22:04
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

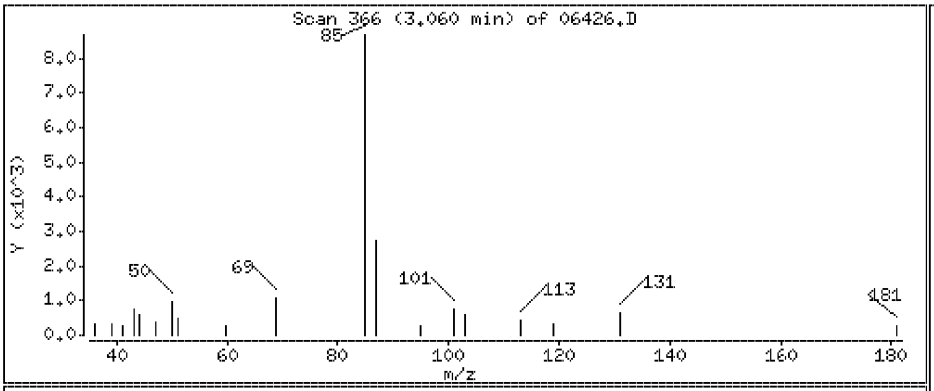
Operator: NCK

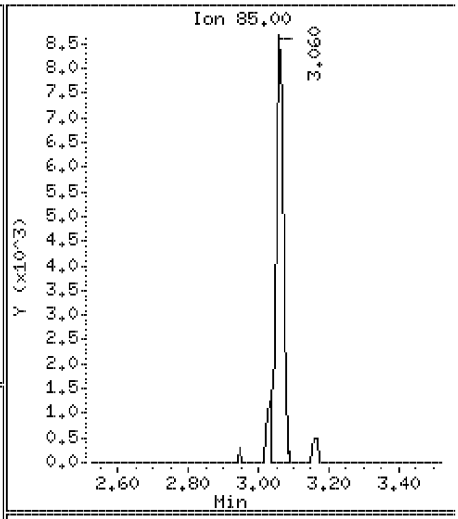
Column phase: J&W DB-5

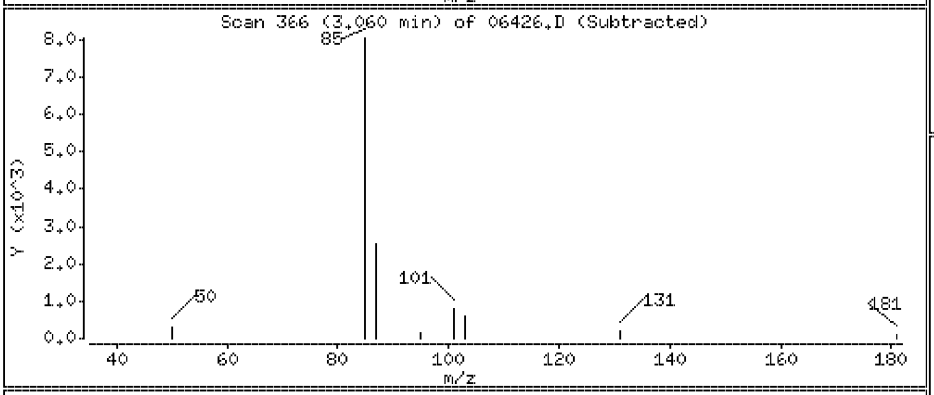
Column diameter: 0.32

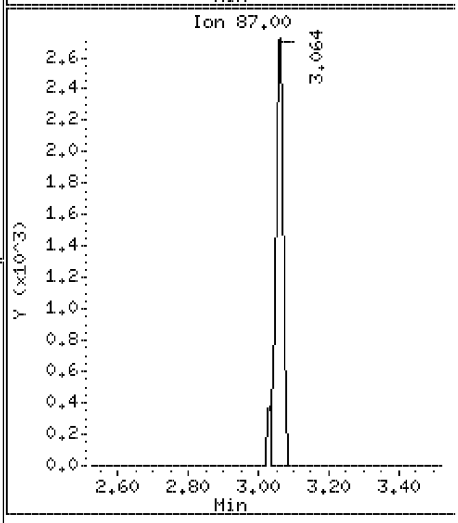
5 Dichlorodifluoromethane

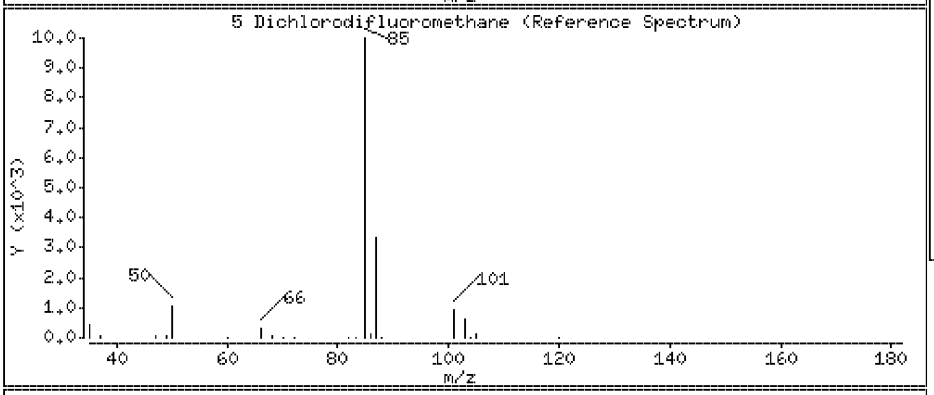
Concentration: 0.416 ppbv

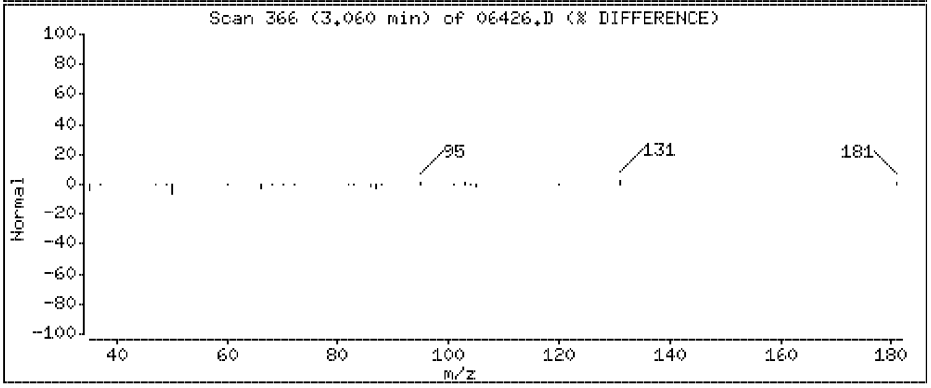












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

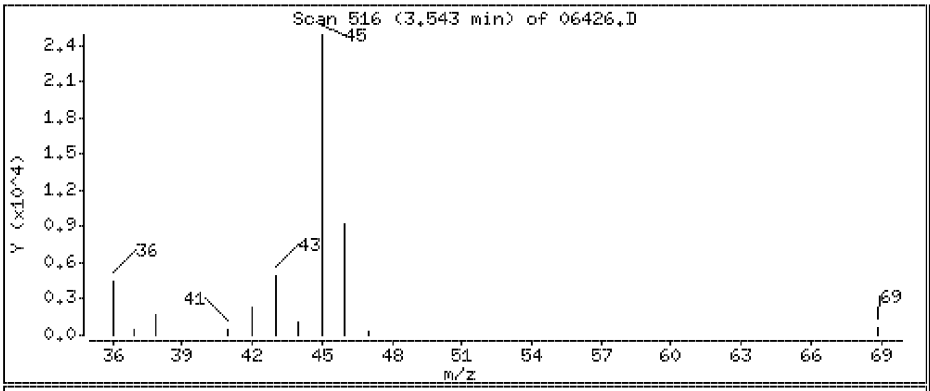
Operator: NCK

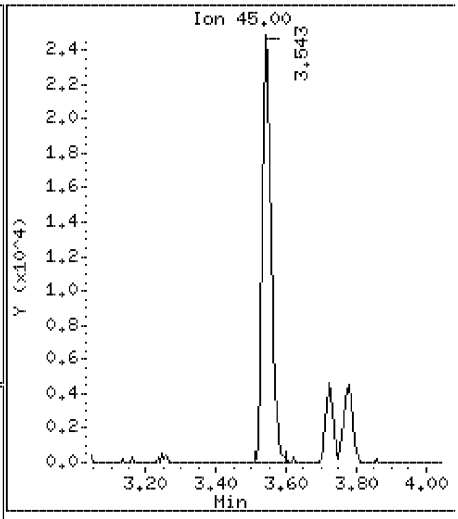
Column phase: J&W DB-5

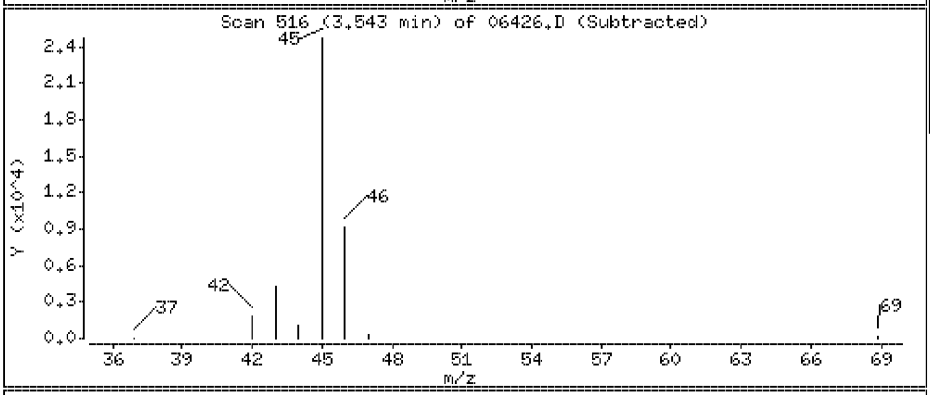
Column diameter: 0.32

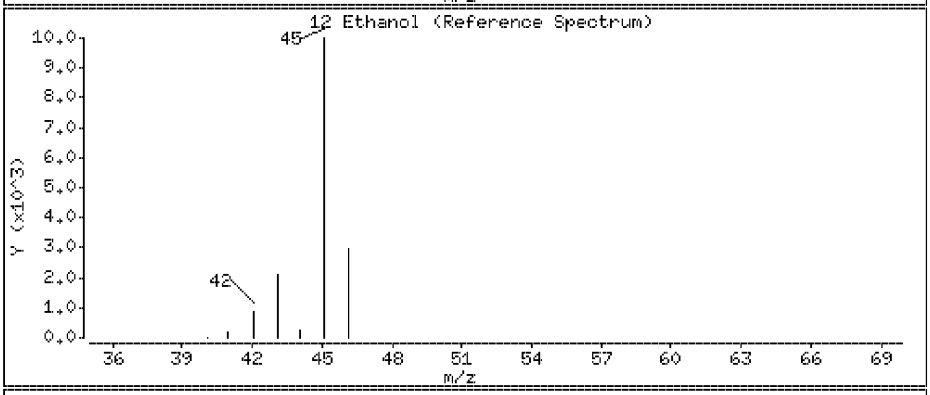
12 Ethanol

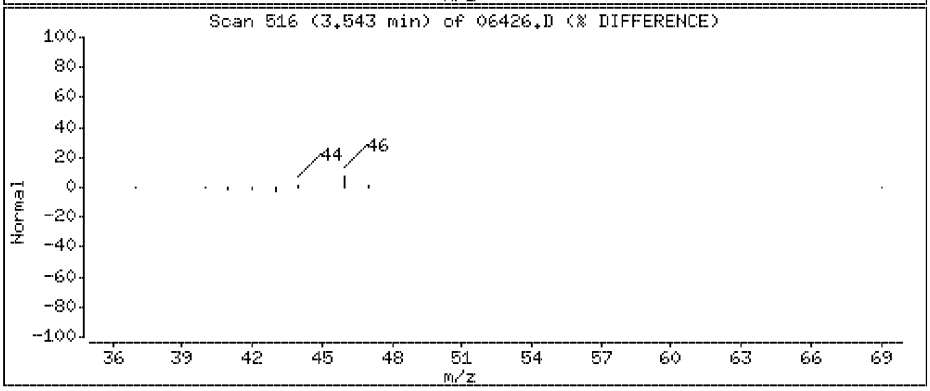
Concentration: 16.4 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

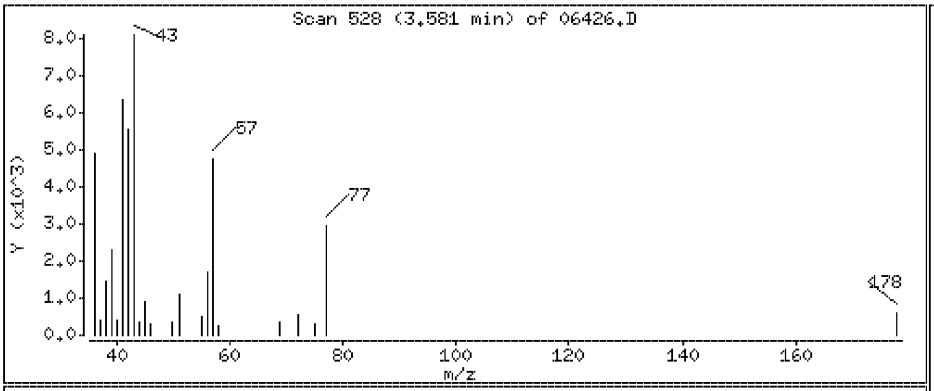
Operator: NCK

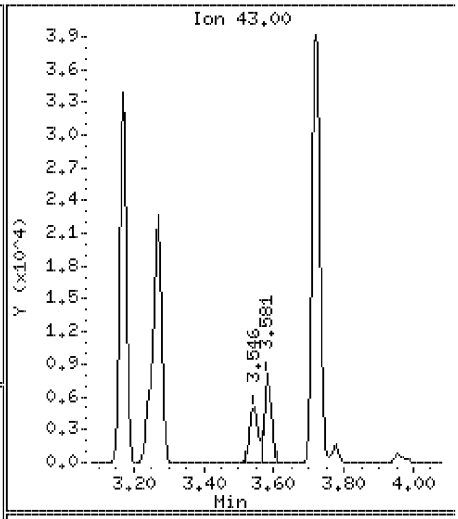
Column phase: J&W DB-5

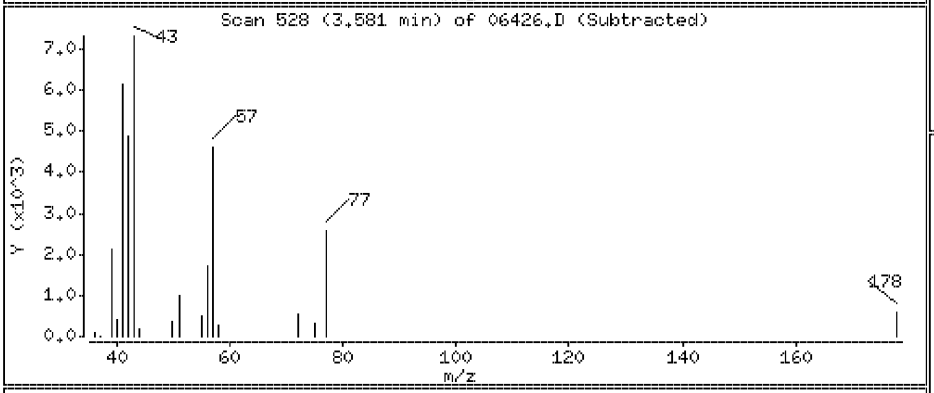
Column diameter: 0.32

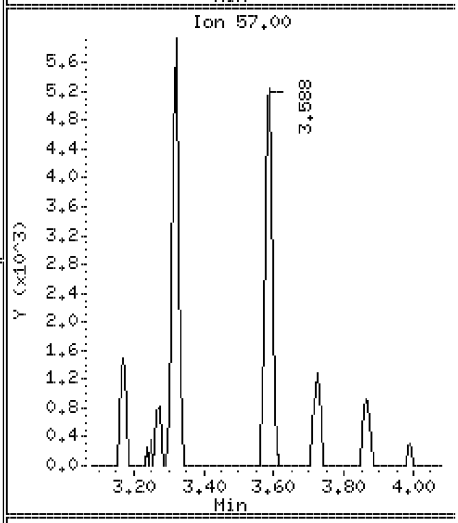
14 Isopentane

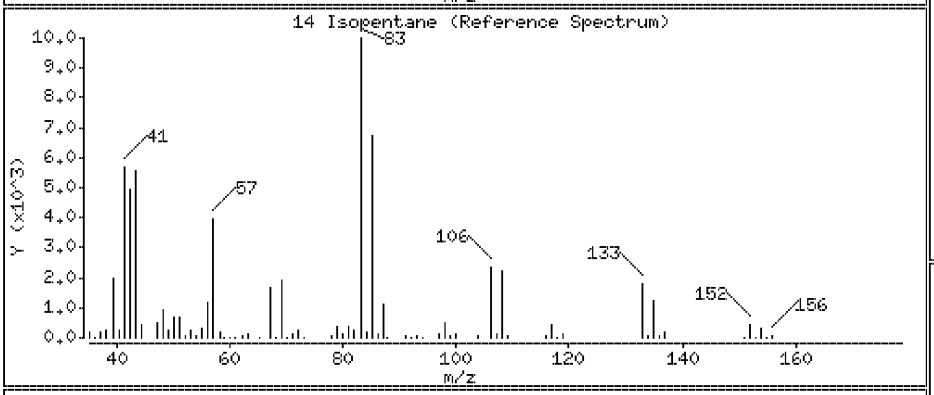
Concentration: 1.14 ppbv

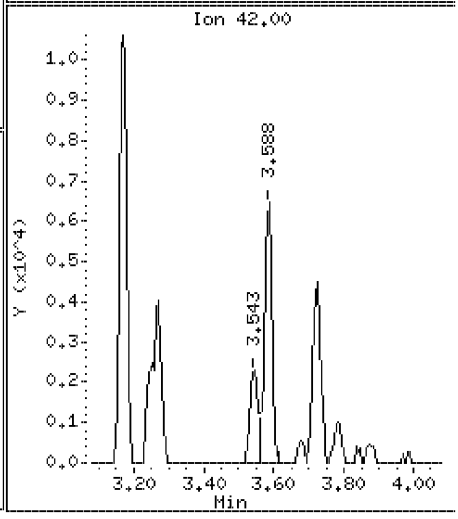


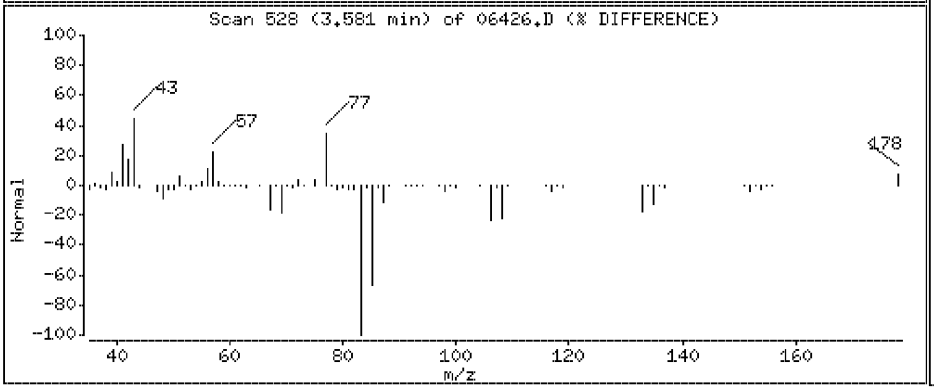












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

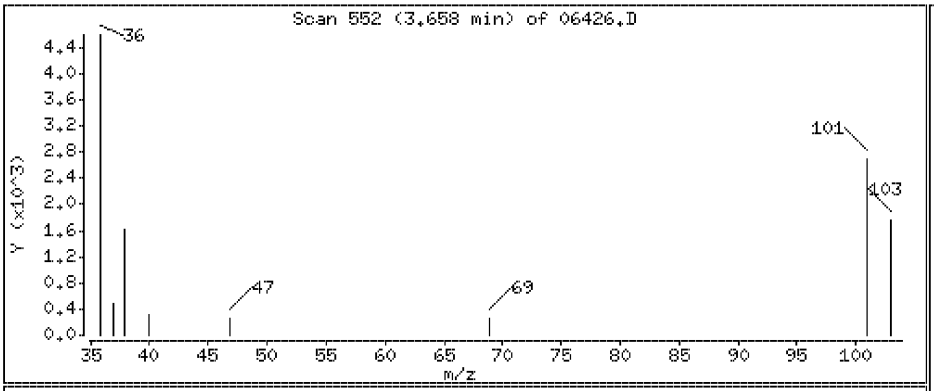
Operator: NCK

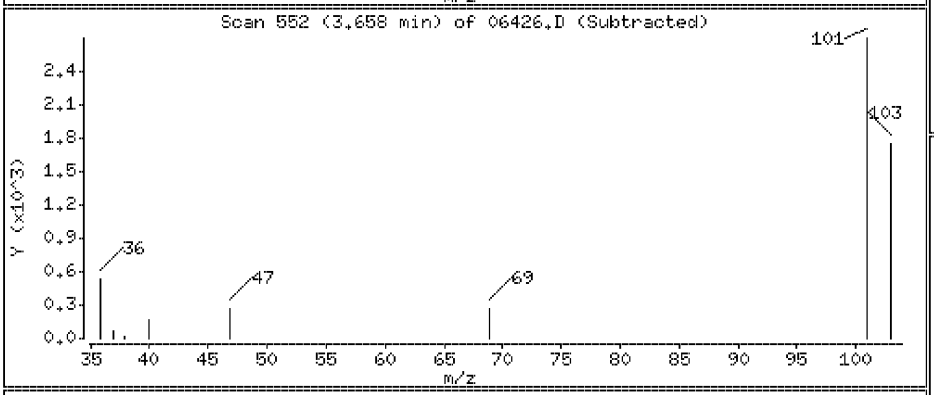
Column phase: J&W DB-5

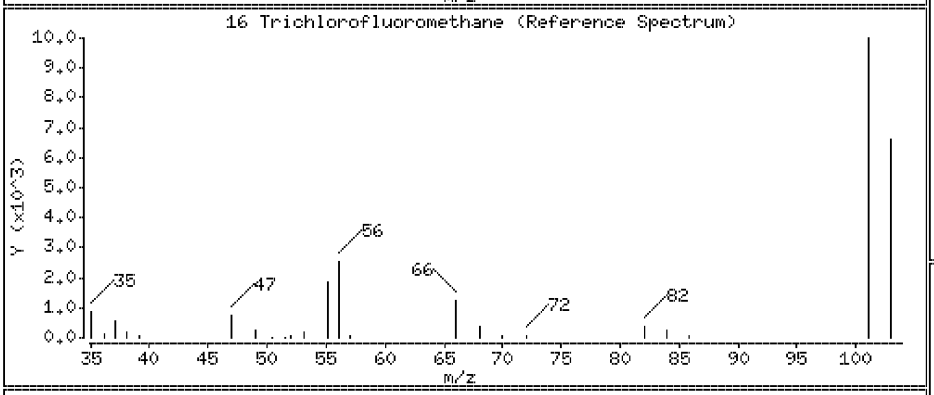
Column diameter: 0.32

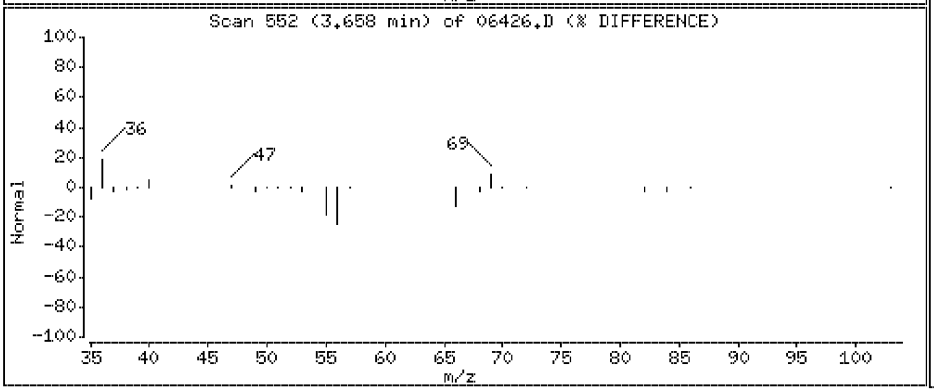
16 Trichlorofluoromethane

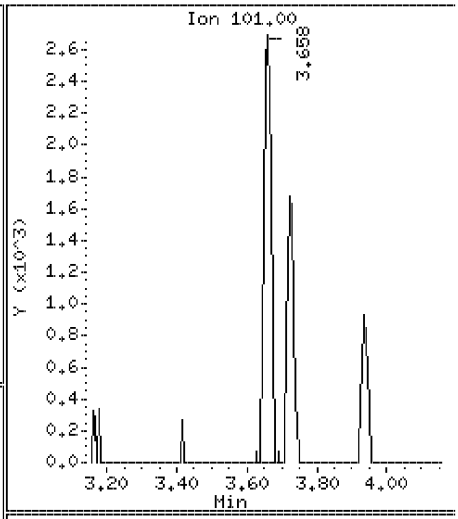
Concentration: 0.194 ppbv

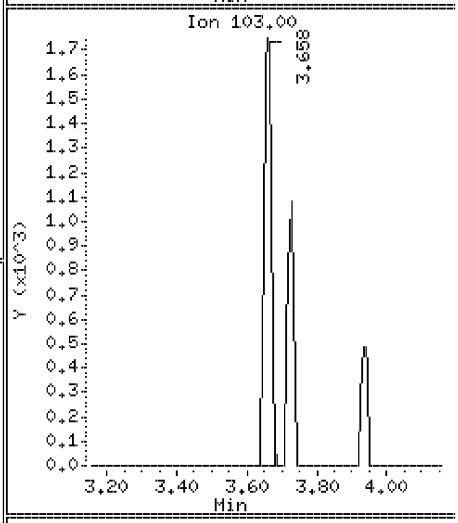


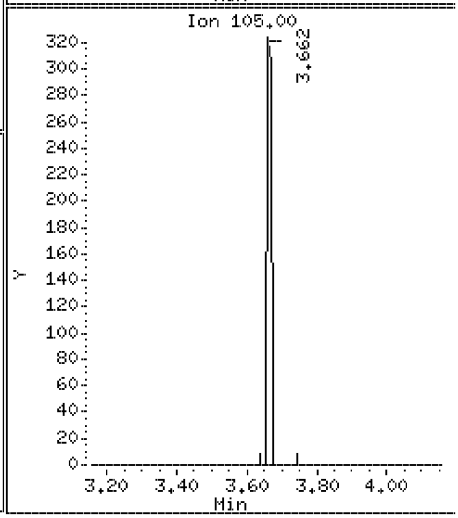












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

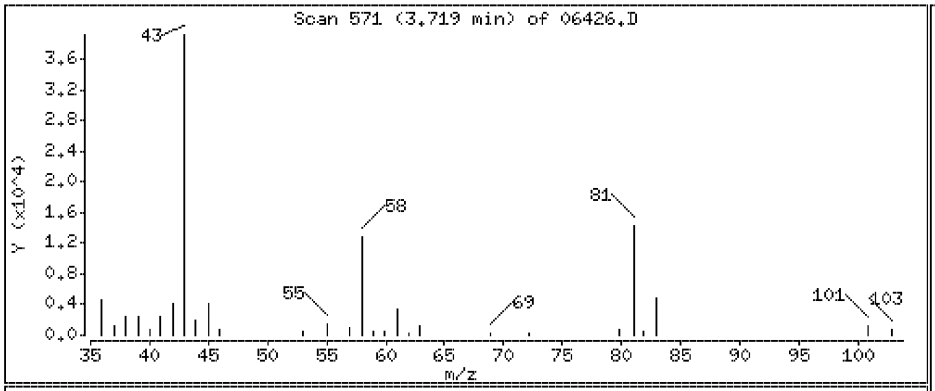
Operator: NCK

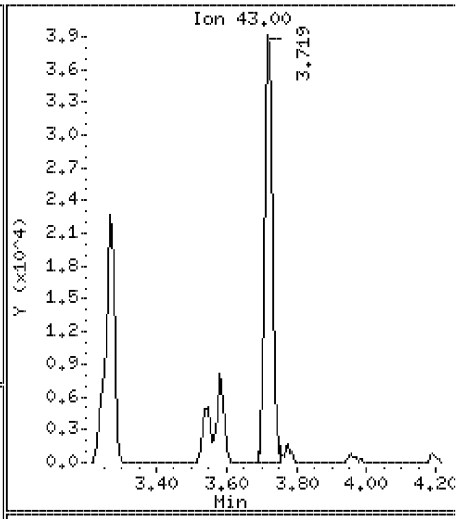
Column phase: J&W DB-5

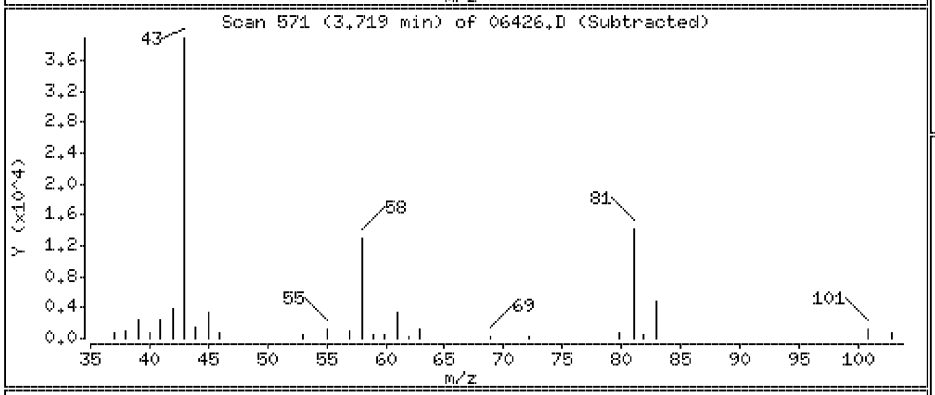
Column diameter: 0.32

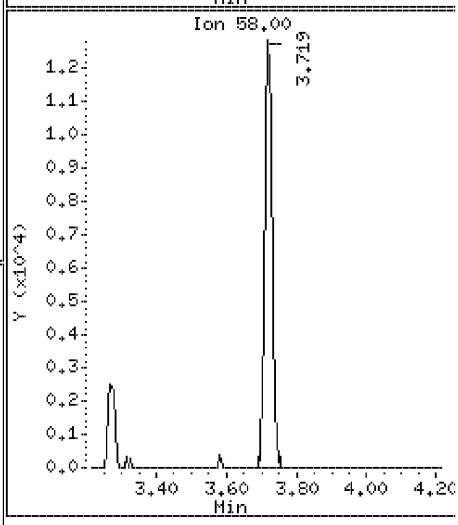
18 Acetone

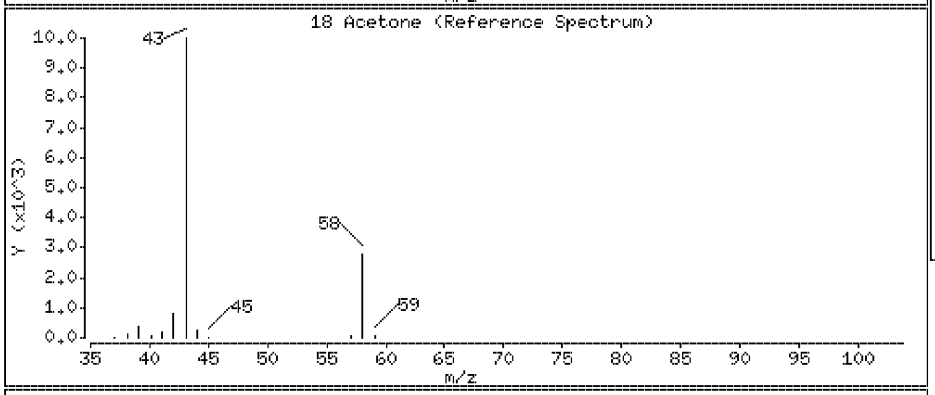
Concentration: 5.20 ppbv

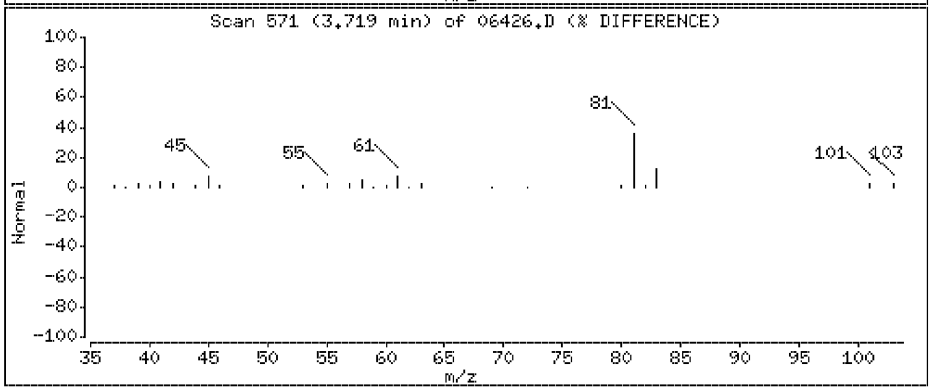












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

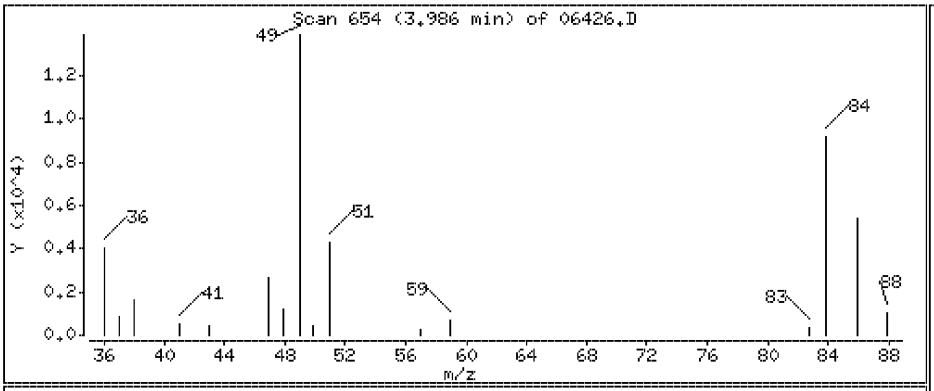
Operator: NCK

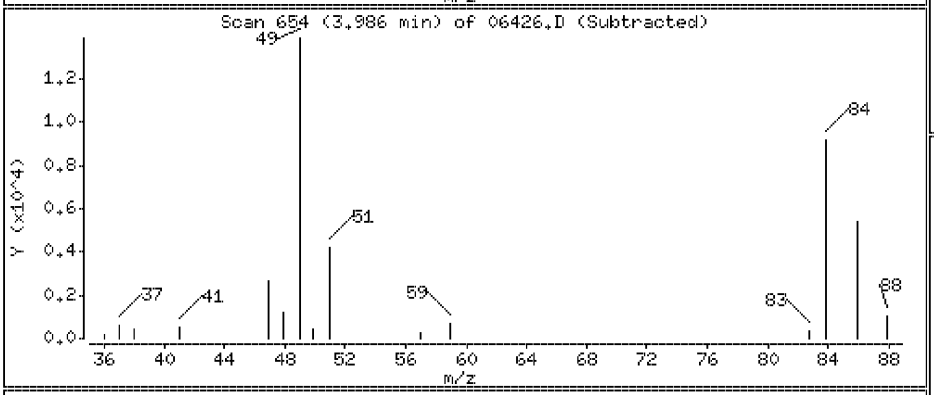
Column phase: J&W DB-5

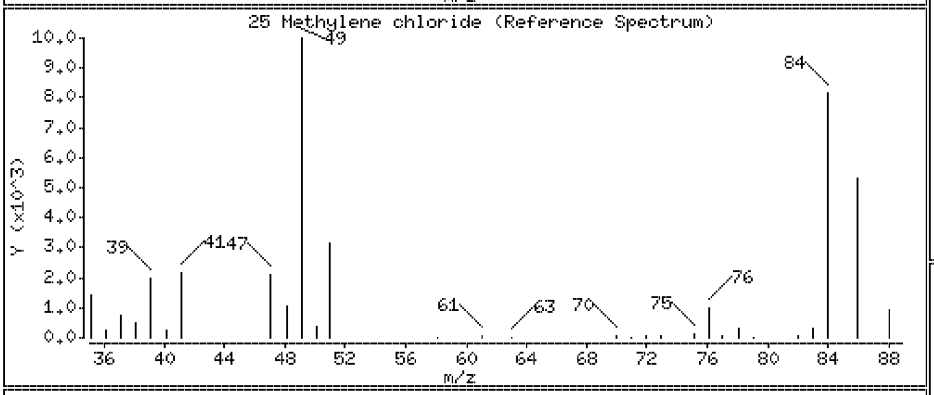
Column diameter: 0.32

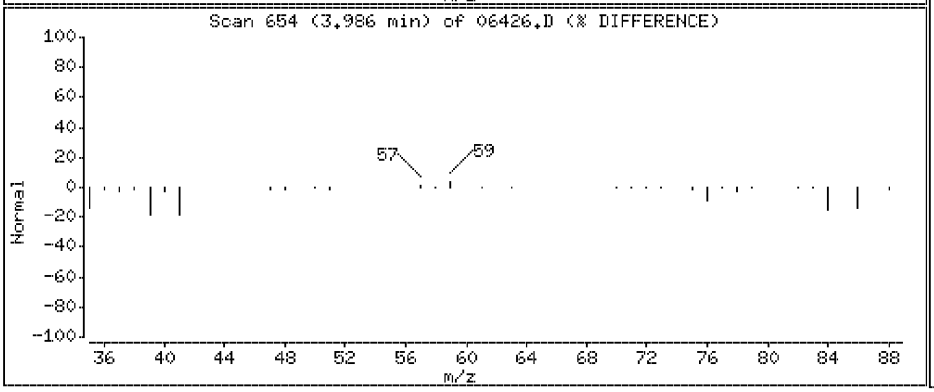
25 Methylene chloride

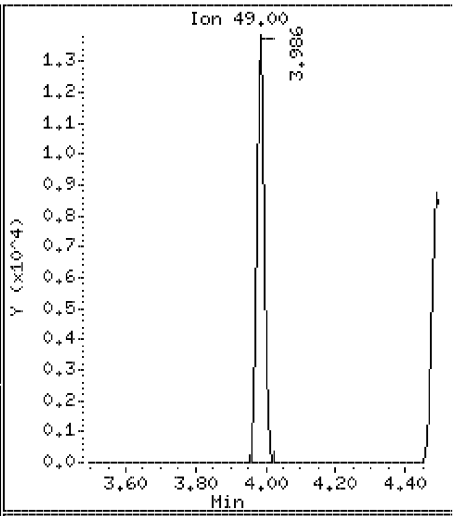
Concentration: 2.46 ppbv

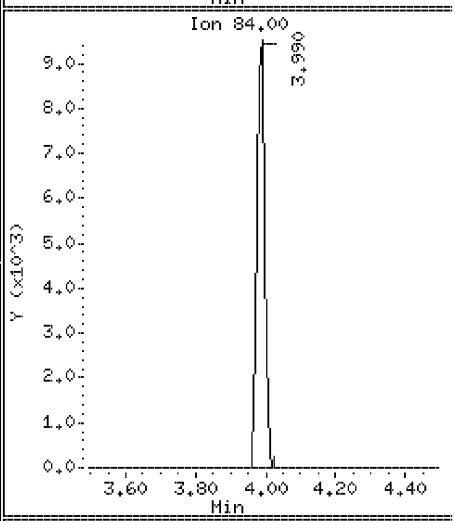


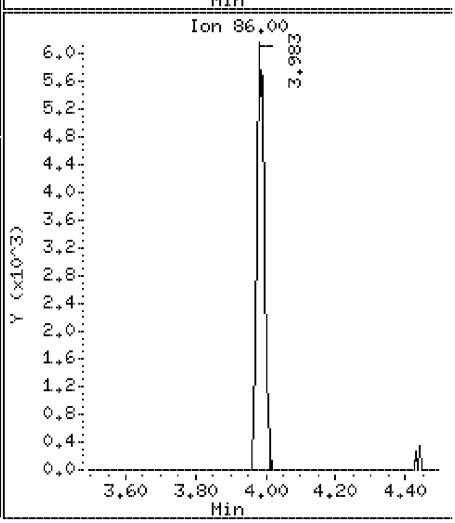












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

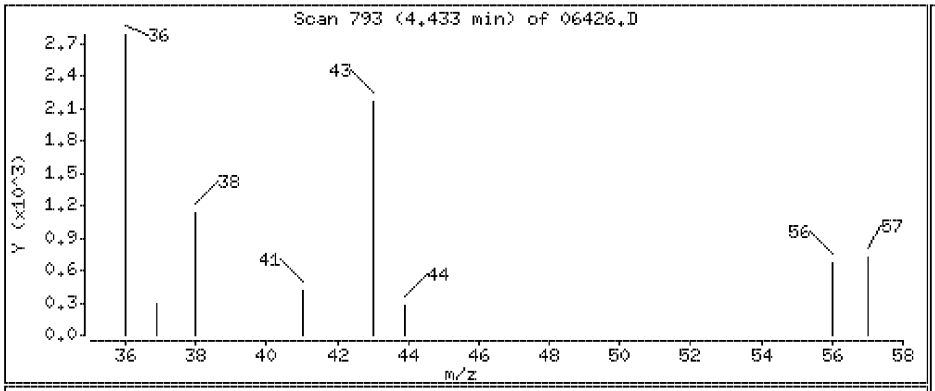
Operator: NCK

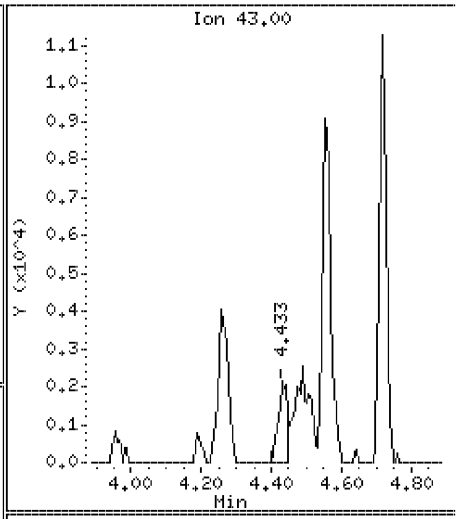
Column phase: J&W DB-5

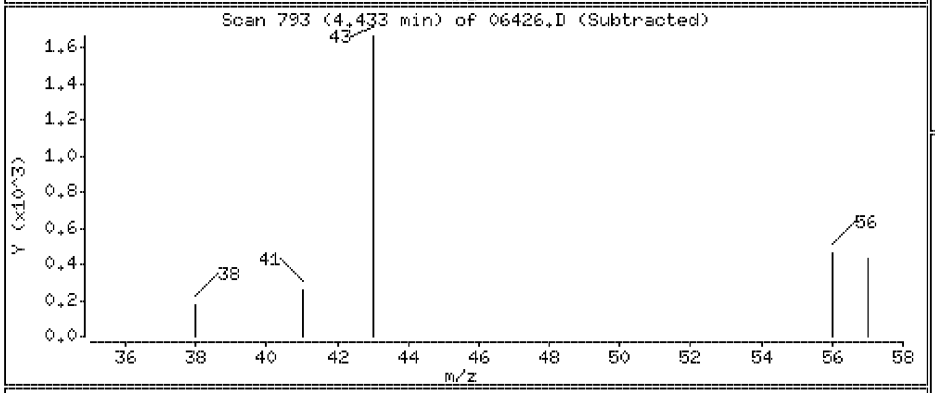
Column diameter: 0.32

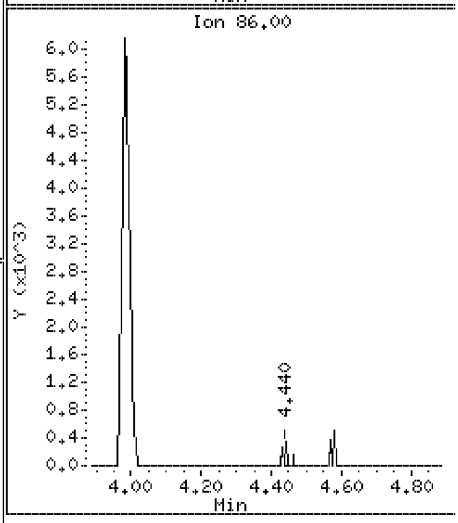
30 Vinyl Acetate

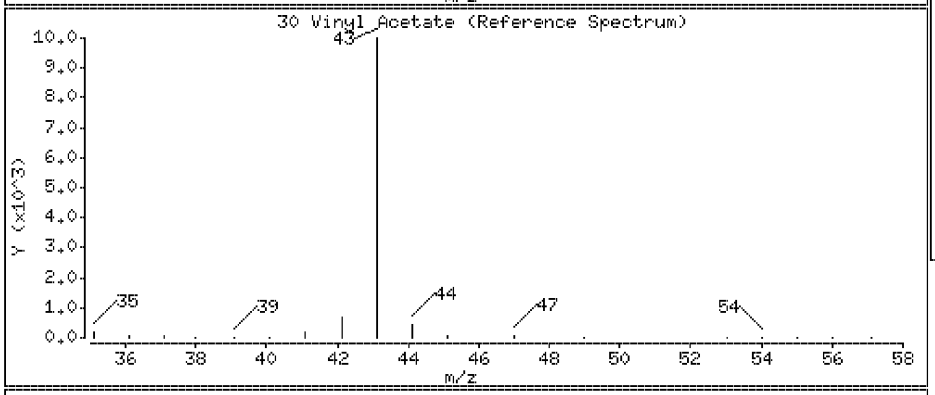
Concentration: 0.541 ppbv

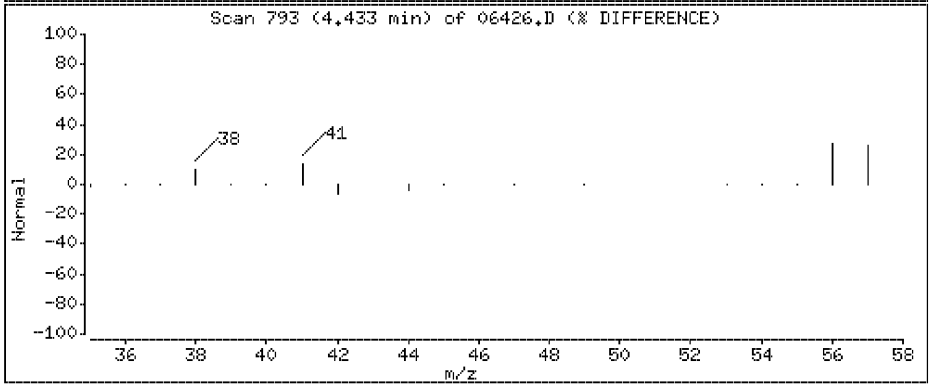












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

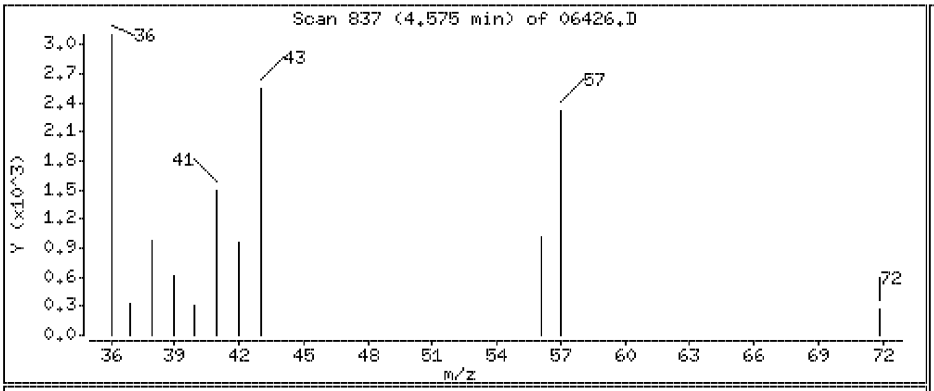
Operator: NCK

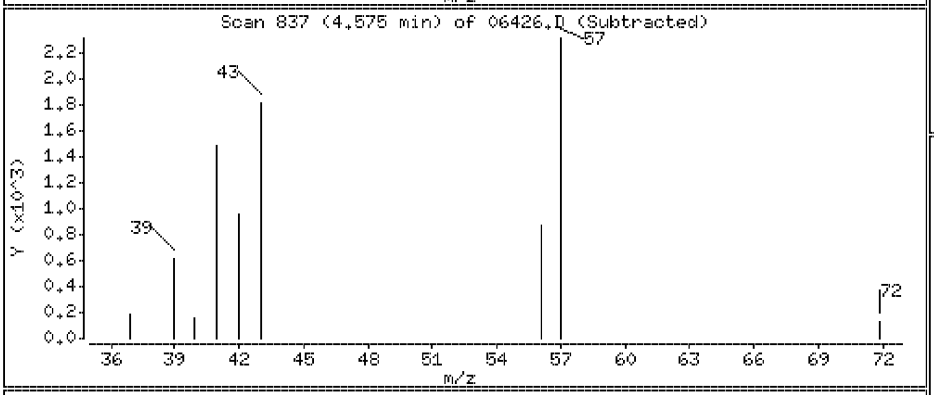
Column phase: J&W DB-5

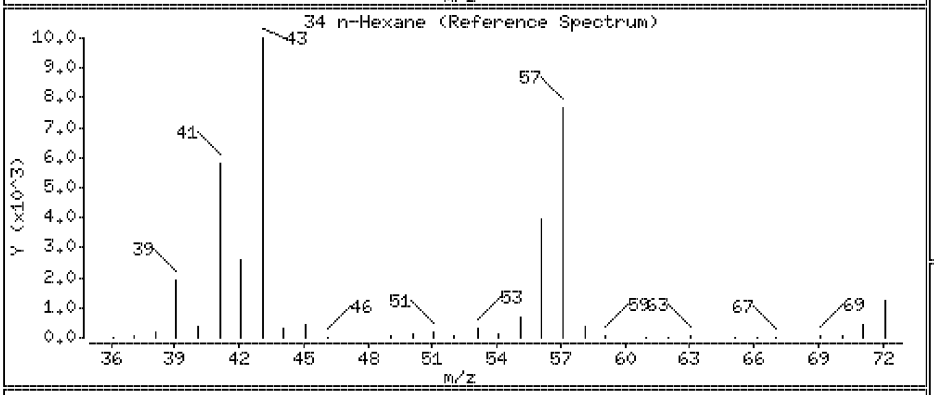
Column diameter: 0.32

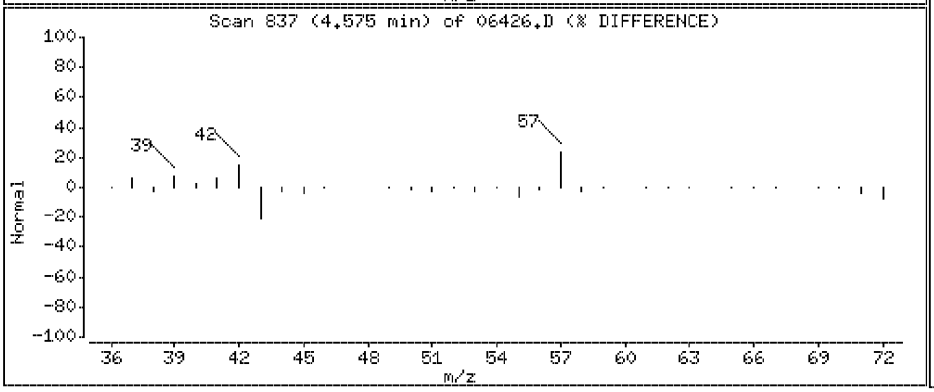
34 n-Hexane

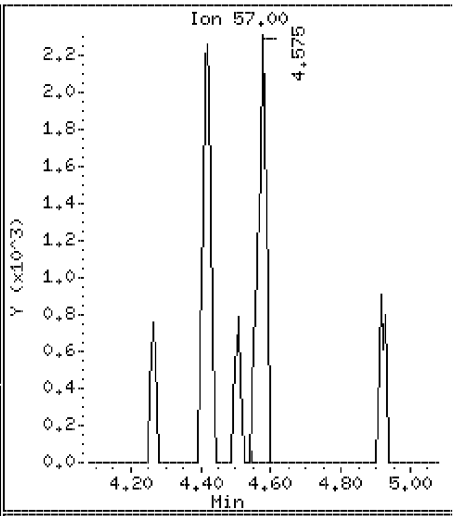
Concentration: 0.339 ppbv

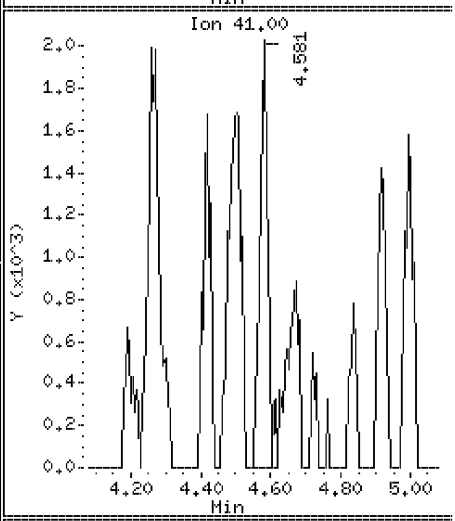


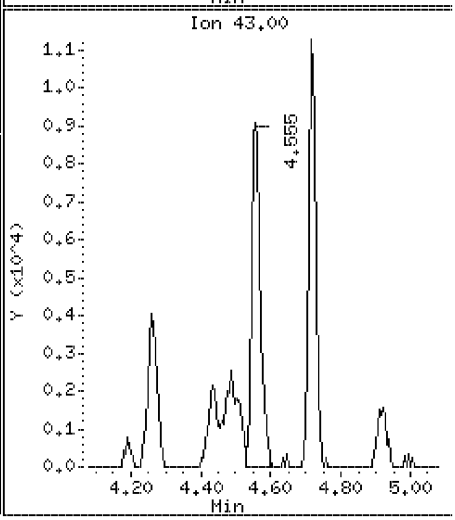












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

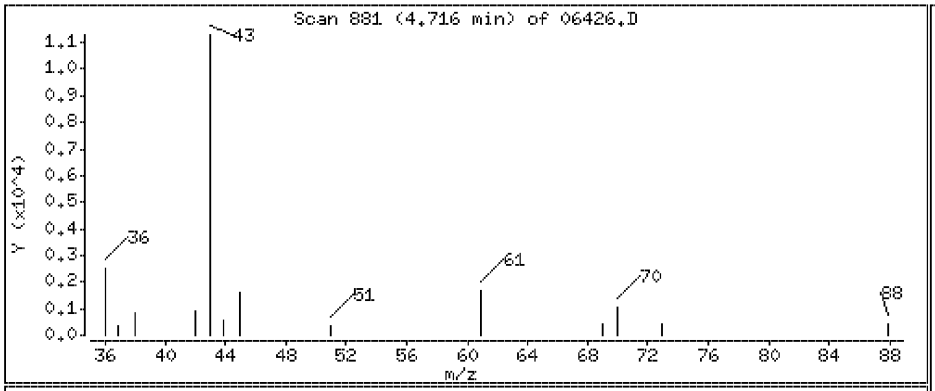
Operator: NCK

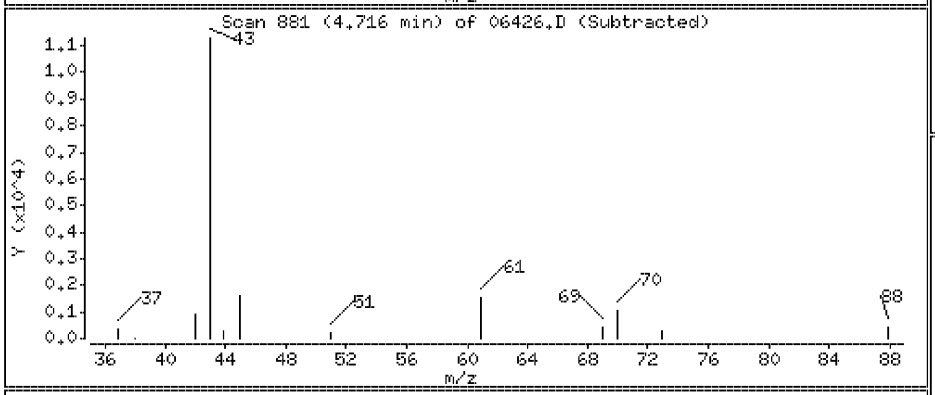
Column phase: J&W DB-5

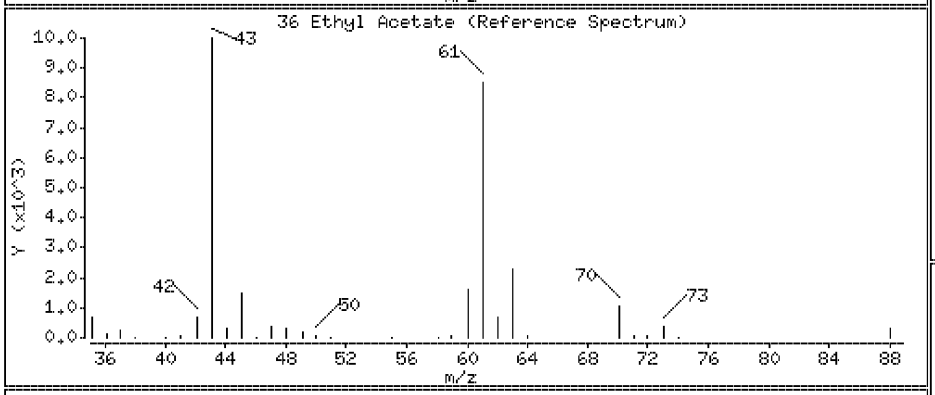
Column diameter: 0.32

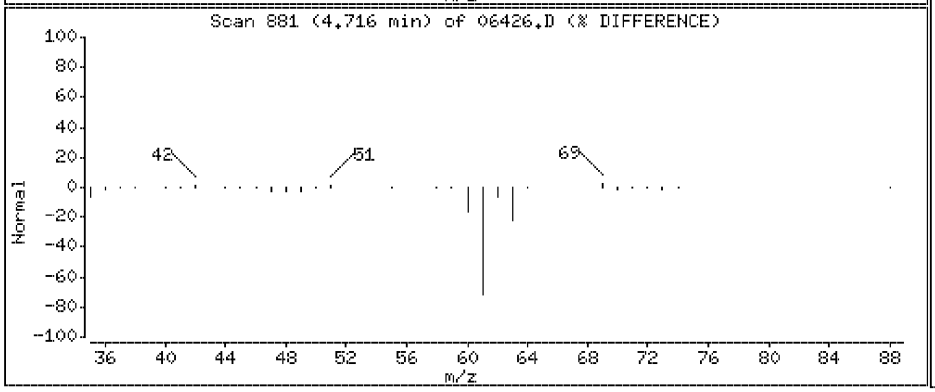
36 Ethyl Acetate

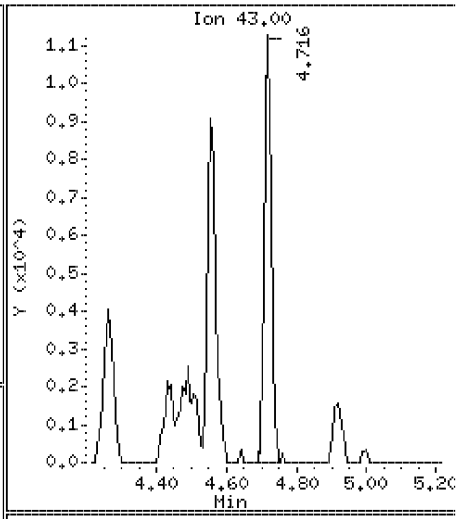
Concentration: 1.02 ppbv

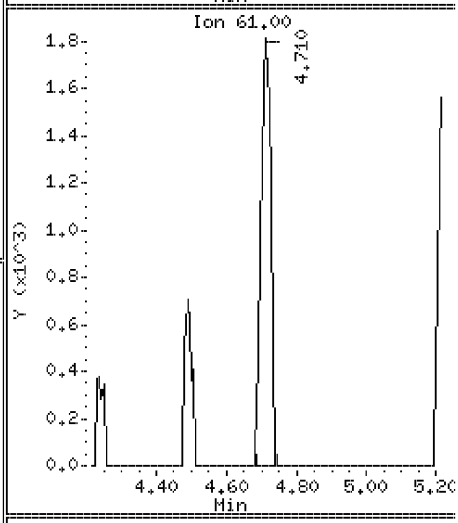


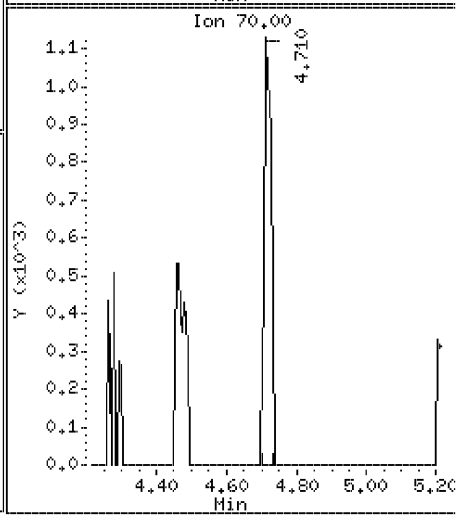












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

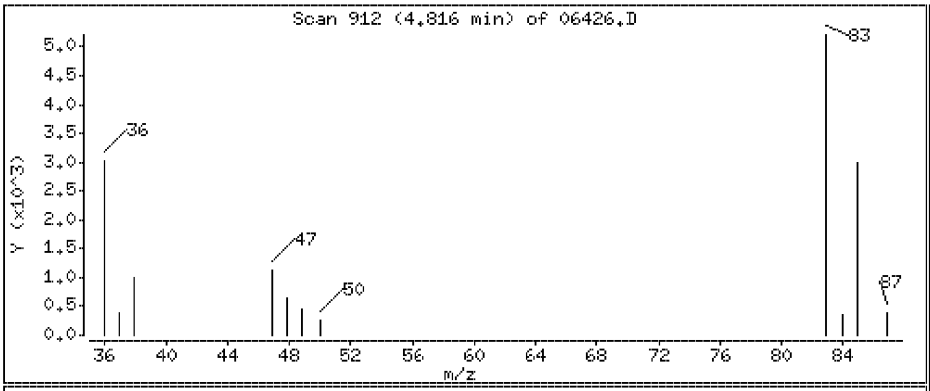
Operator: NCK

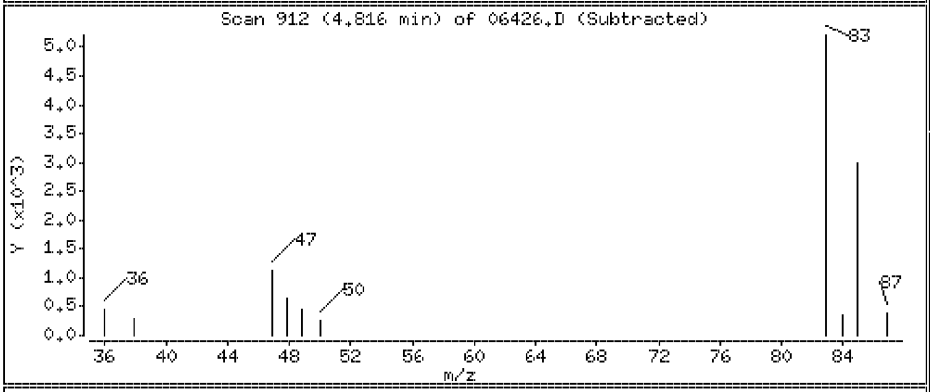
Column phase: J&W DB-5

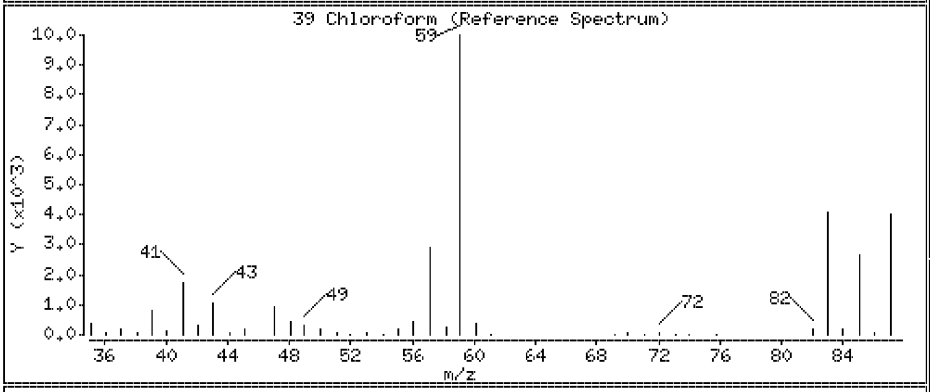
Column diameter: 0.32

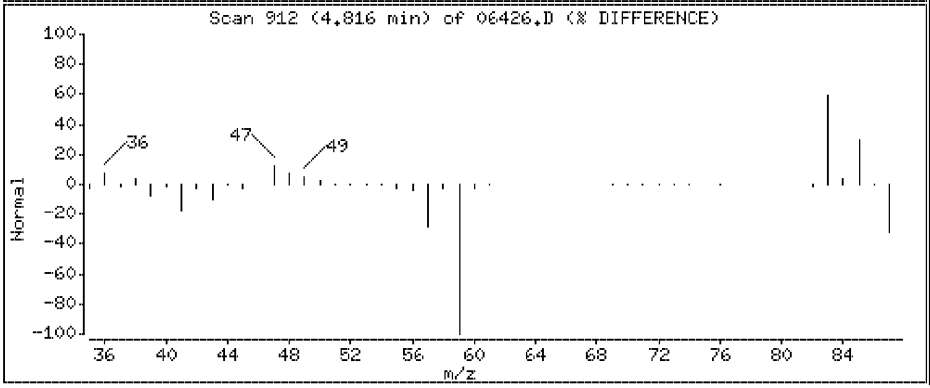
39 Chloroform

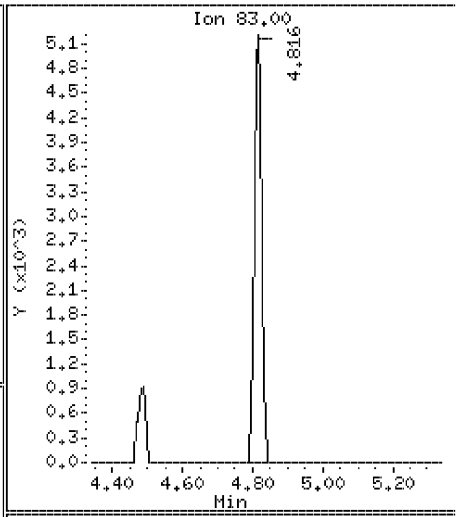
Concentration: 0.476 ppbv

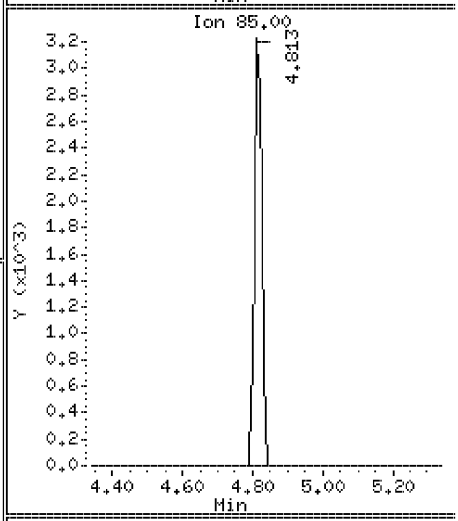


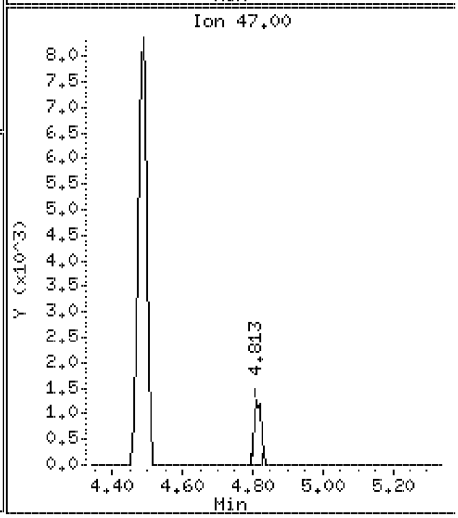












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

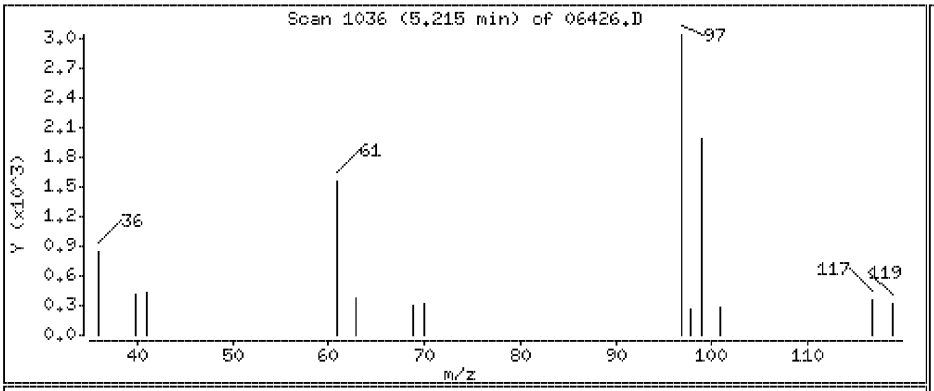
Operator: NCK

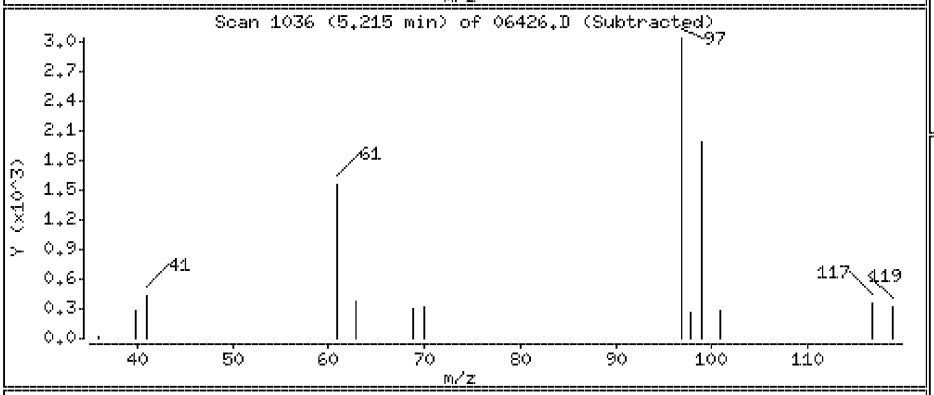
Column phase: J&W DB-5

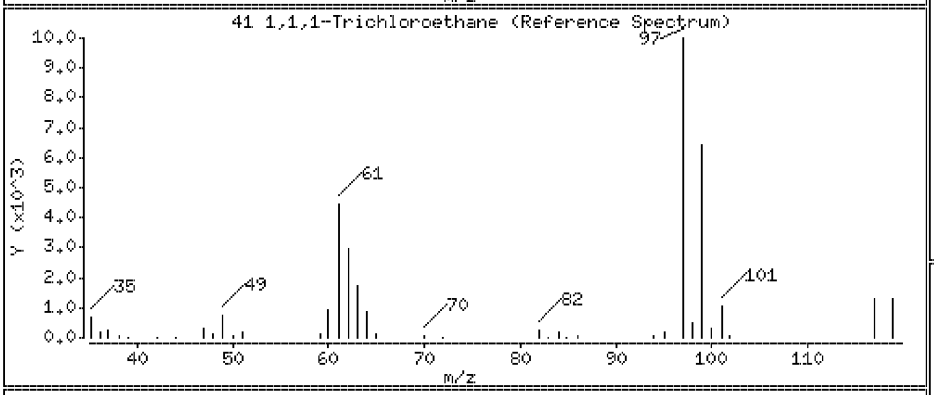
Column diameter: 0.32

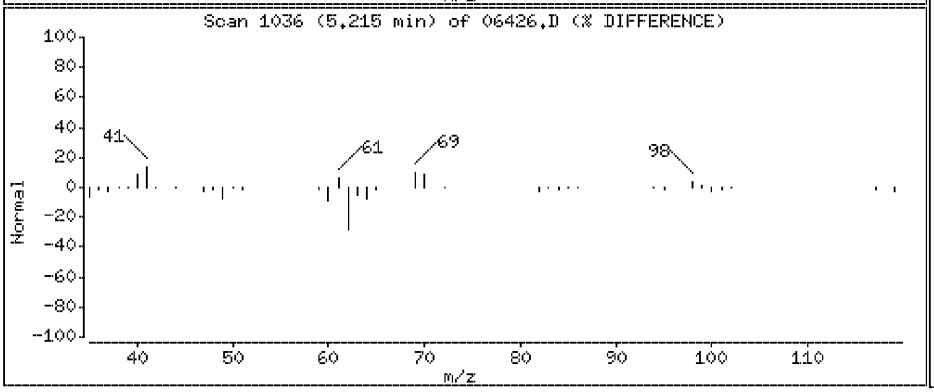
41 1,1,1-Trichloroethane

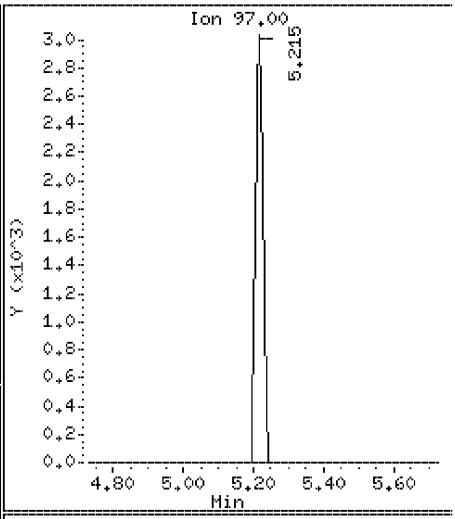
Concentration: 0.261 ppbv

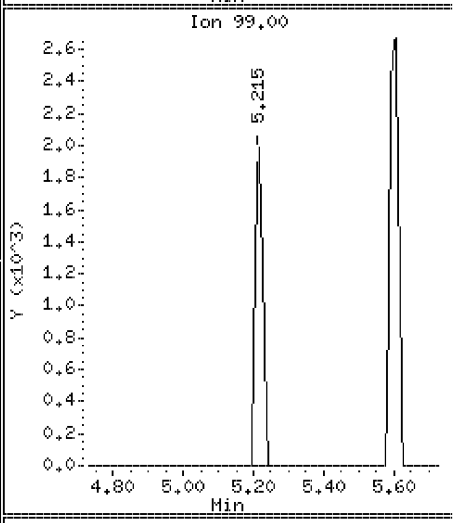


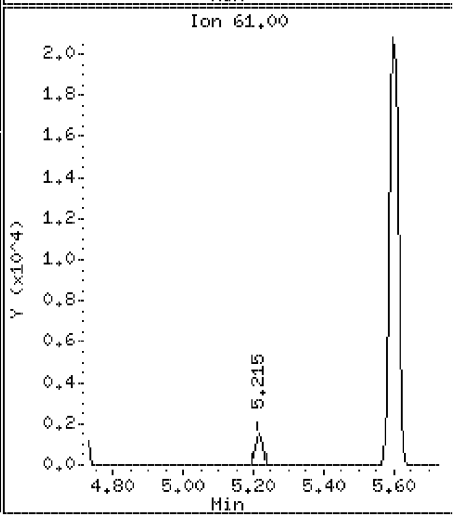












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

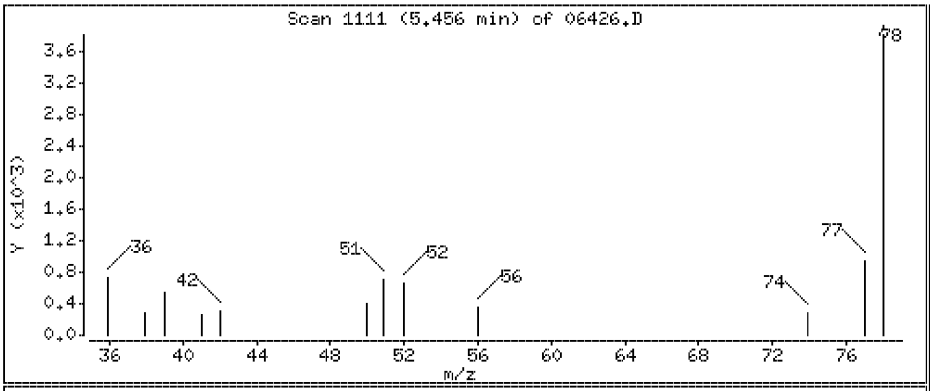
Operator: NCK

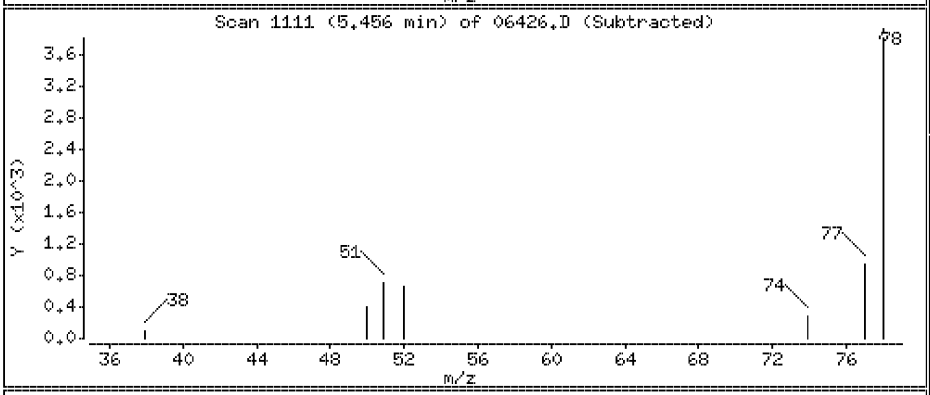
Column phase: J&W DB-5

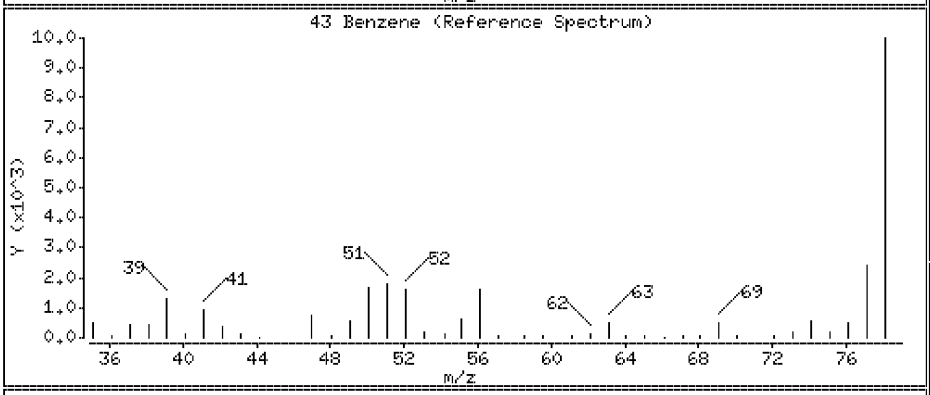
Column diameter: 0.32

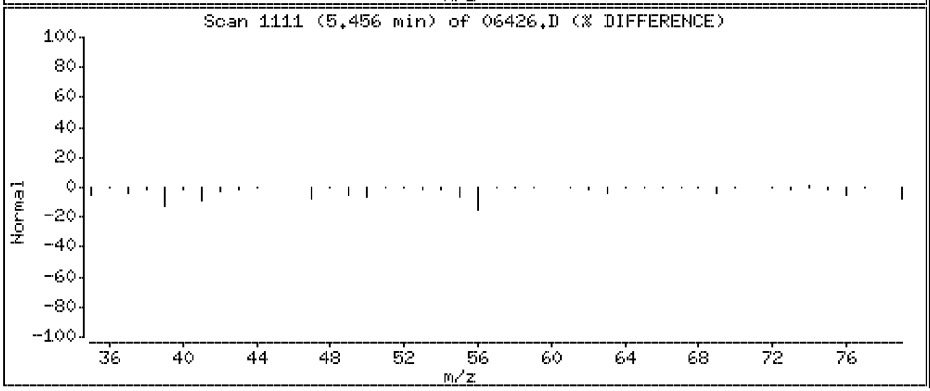
43 Benzene

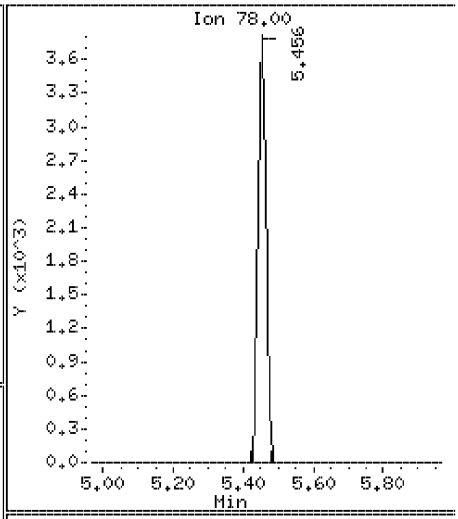
Concentration: 0.262 ppbv

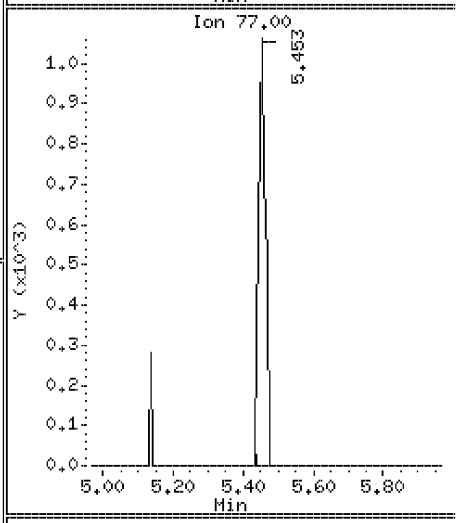


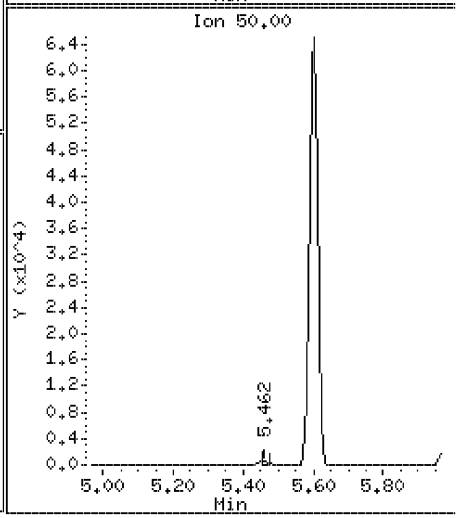












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

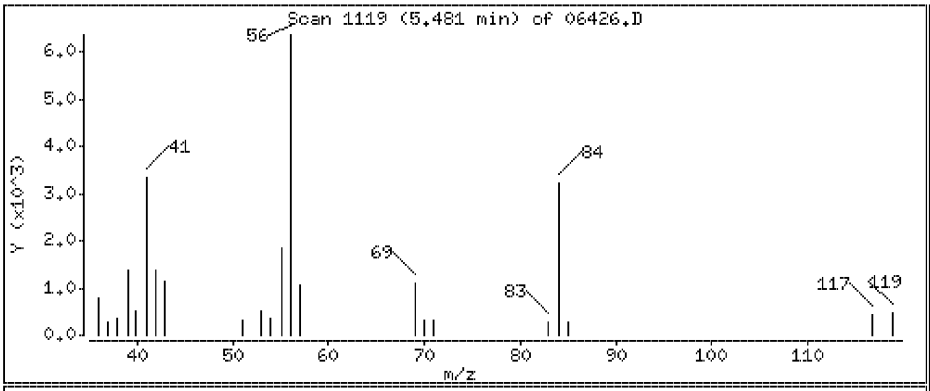
Operator: NCK

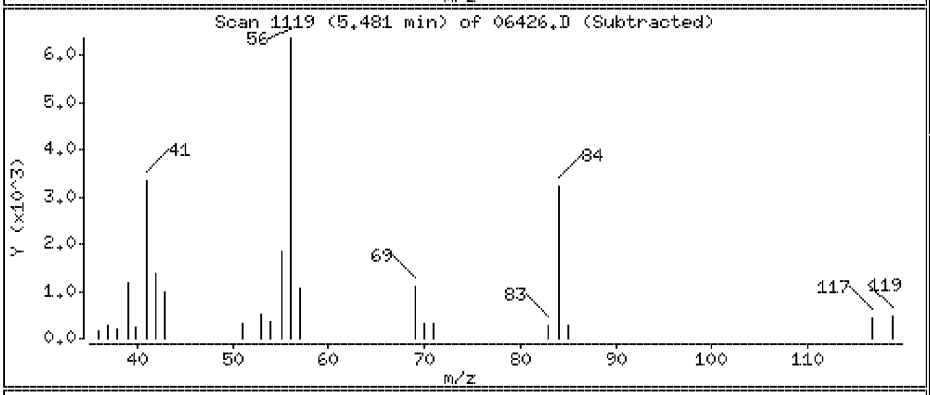
Column phase: J&W DB-5

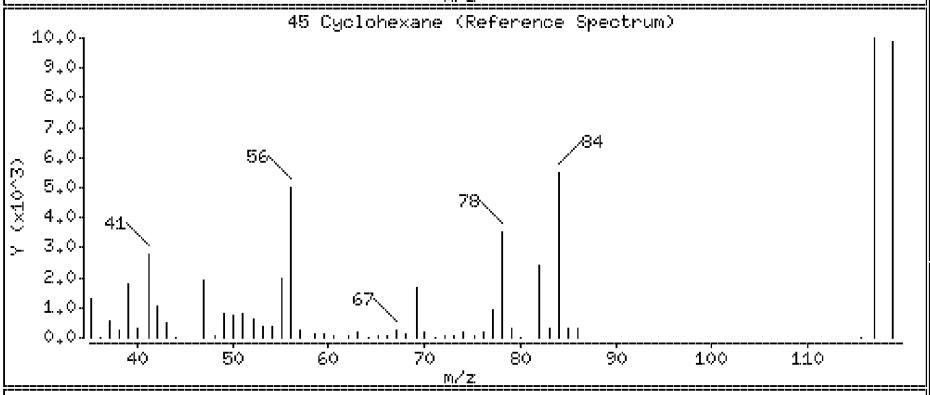
Column diameter: 0.32

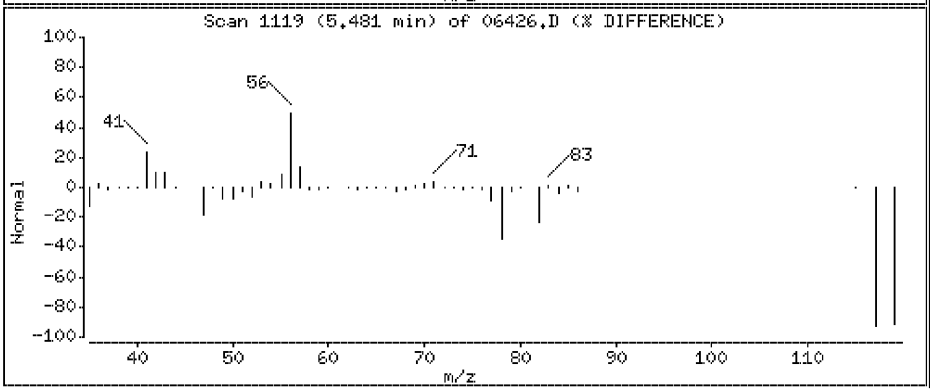
45 Cyclohexane

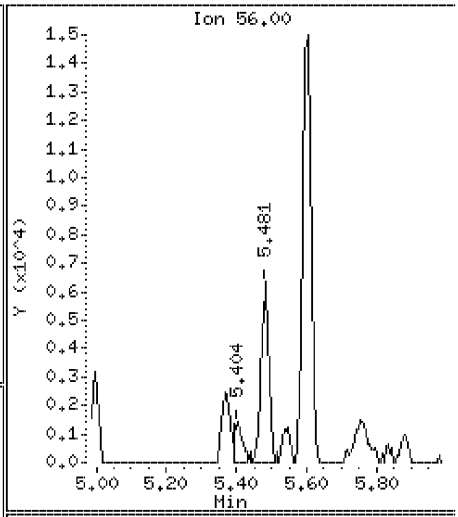
Concentration: 0.820 ppbv

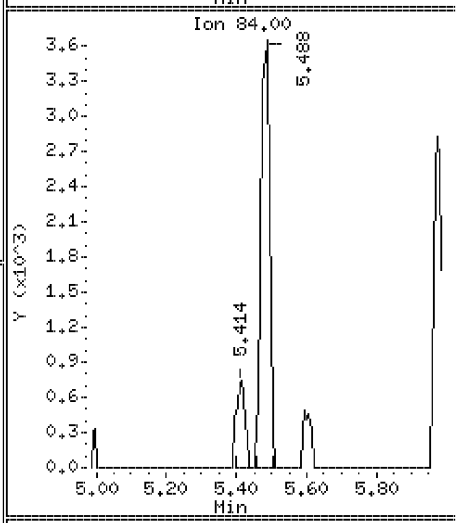


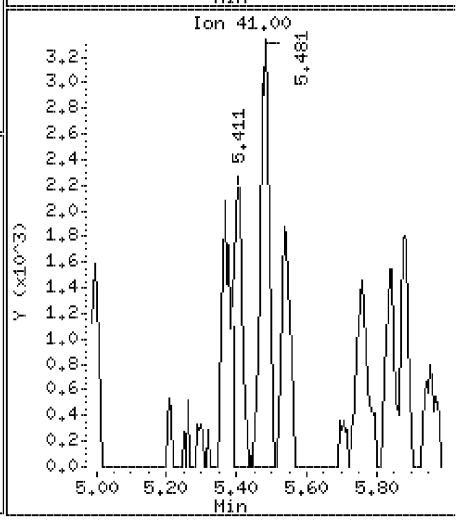












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

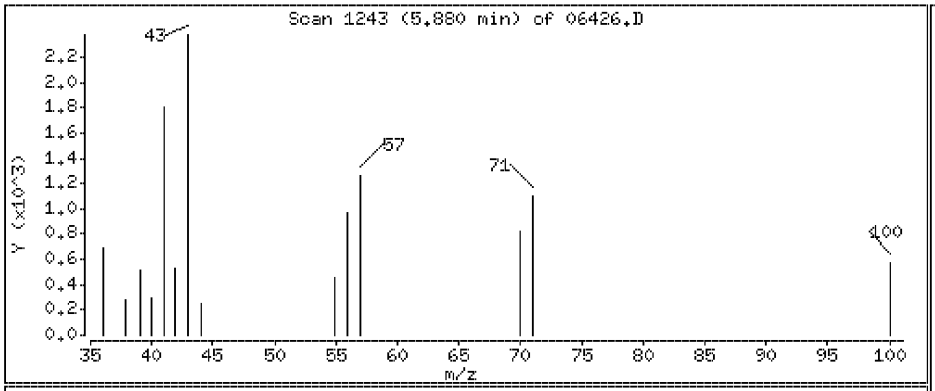
Operator: NCK

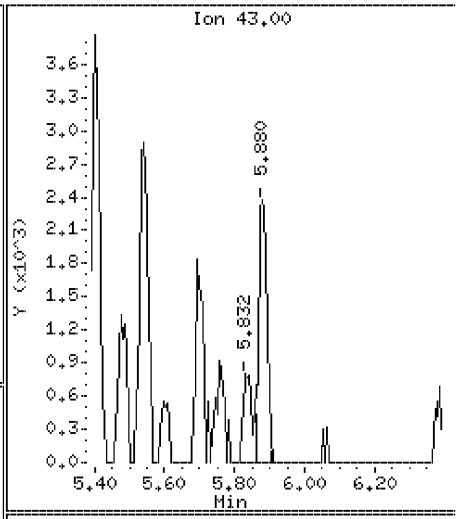
Column phase: J&W DB-5

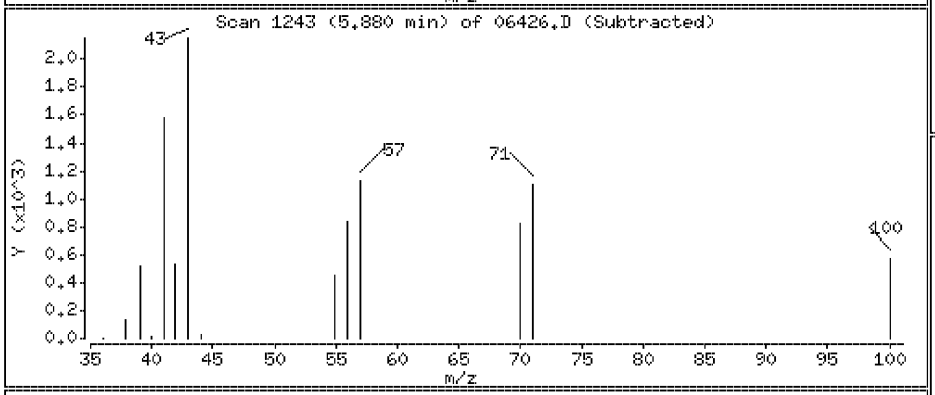
Column diameter: 0.32

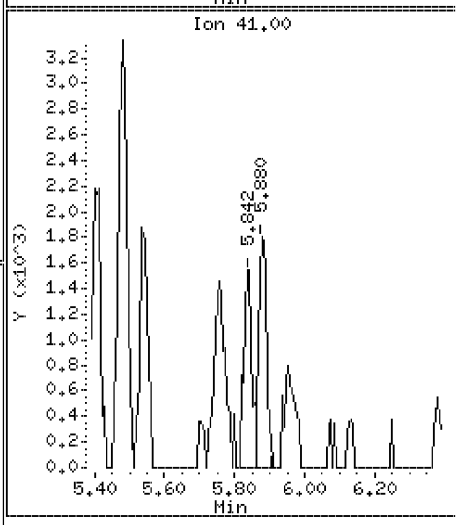
49 Heptane

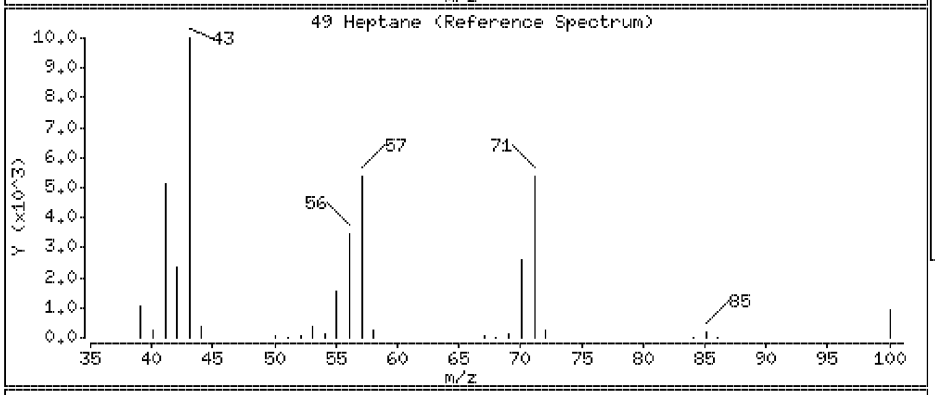
Concentration: 0.289 ppbv

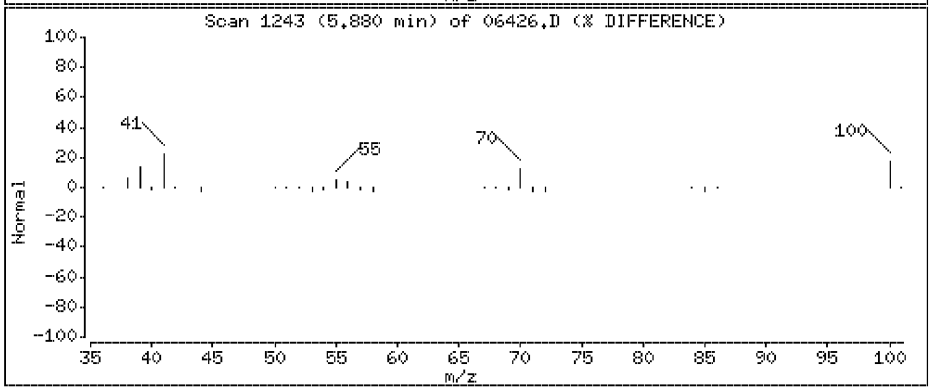












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

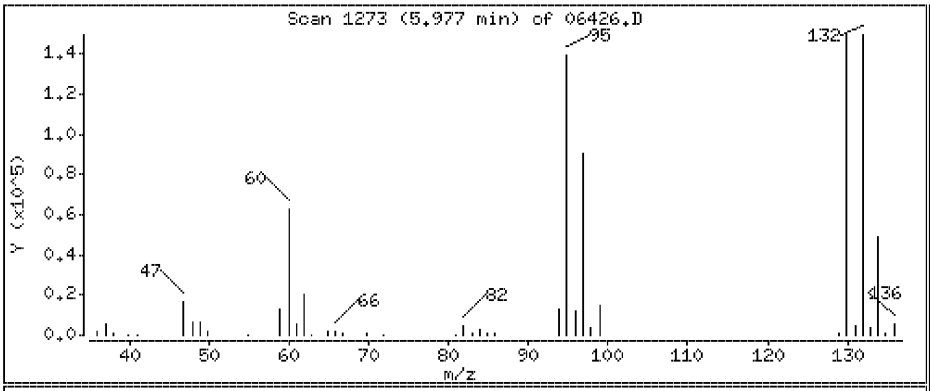
Operator: NCK

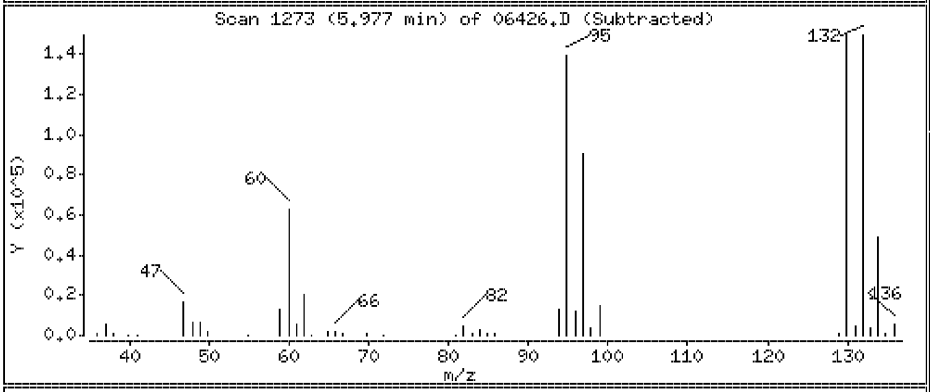
Column phase: J&W DB-5

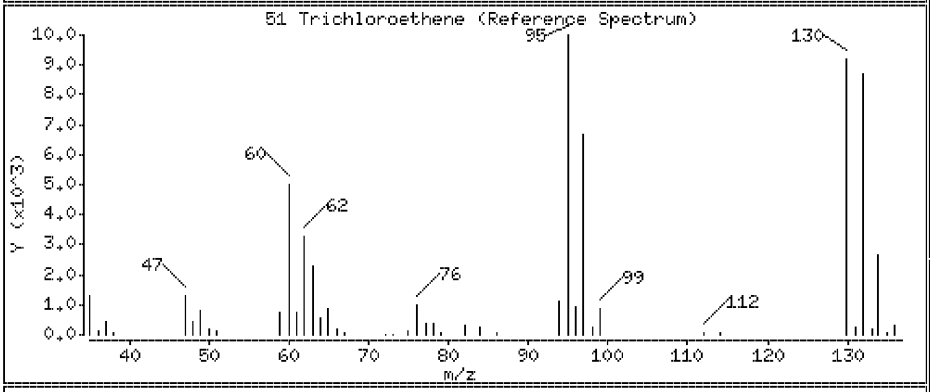
Column diameter: 0.32

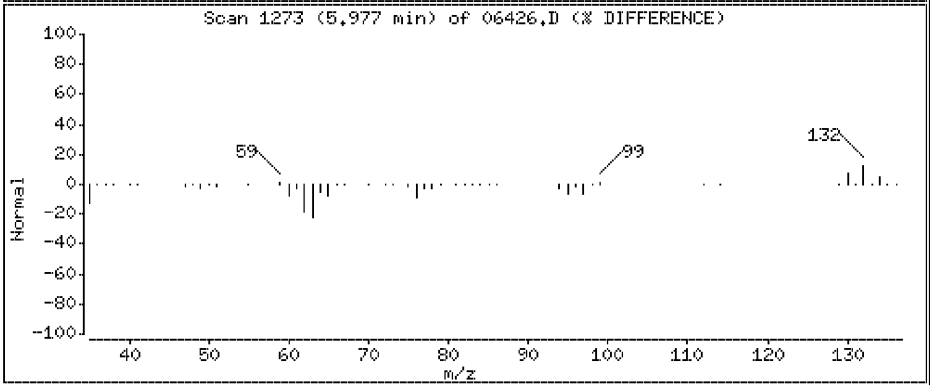
51 Trichloroethene

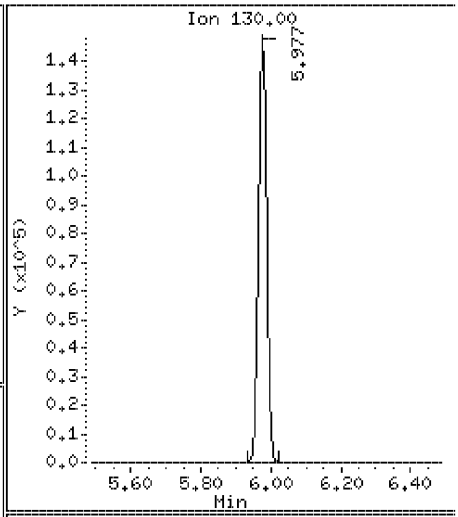
Concentration: 19.7 ppbv

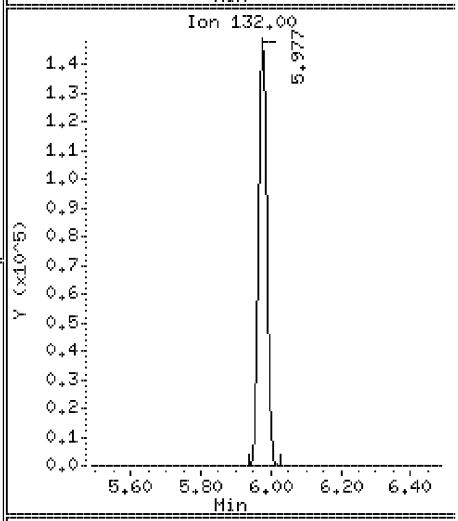


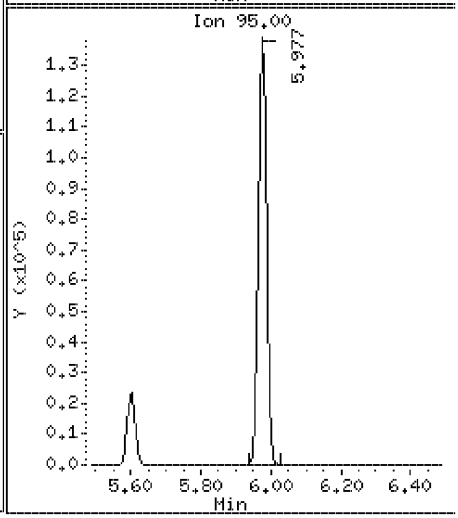












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

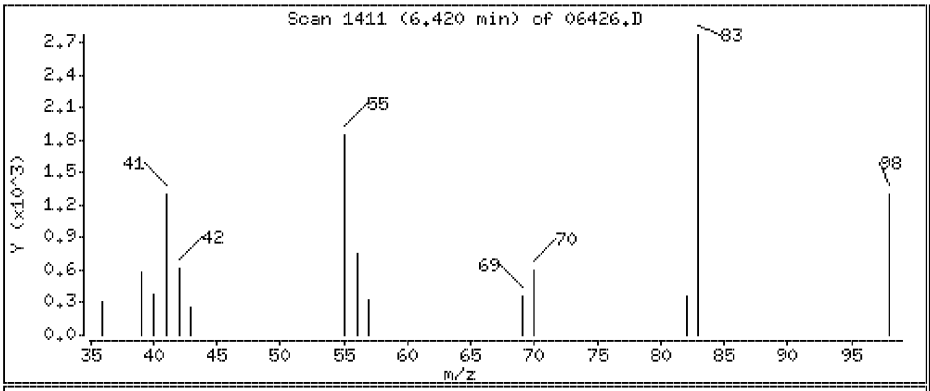
Operator: NCK

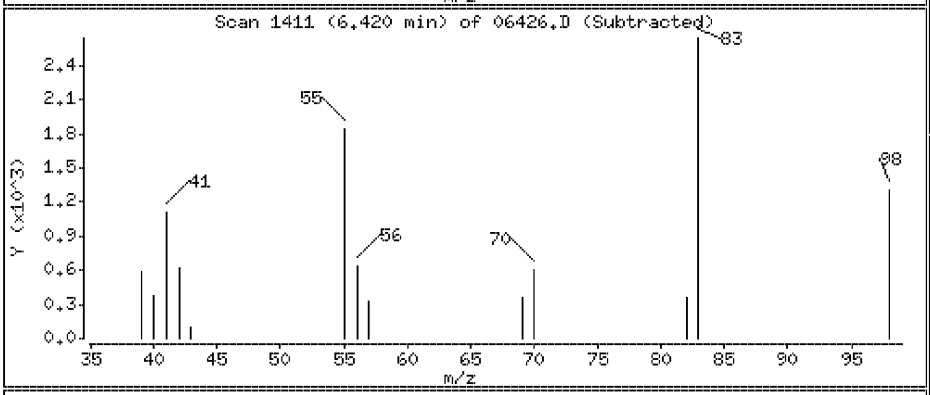
Column phase: J&W DB-5

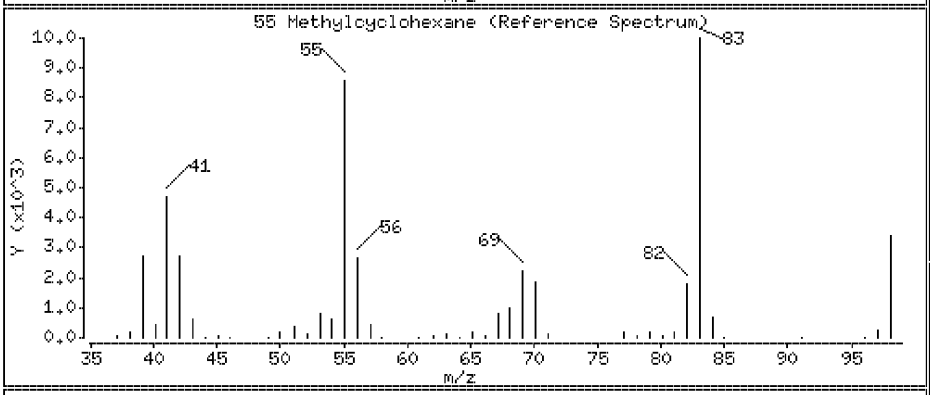
Column diameter: 0.32

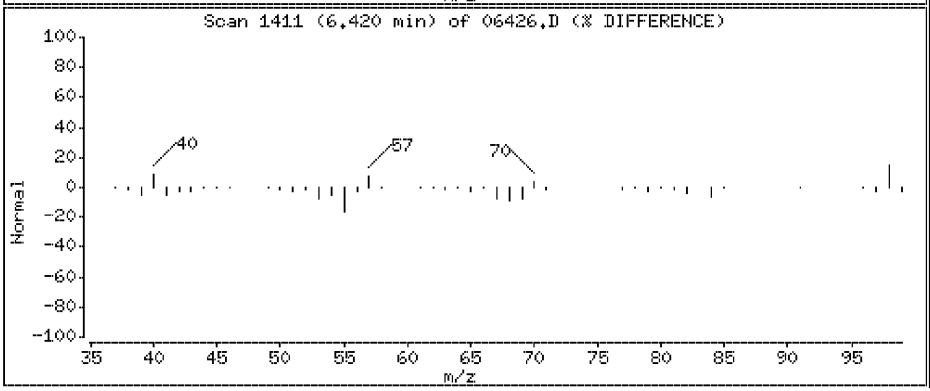
55 Methylcyclohexane

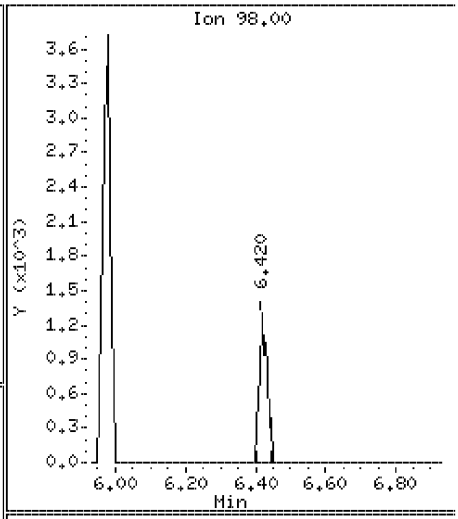
Concentration: 0.281 ppbv

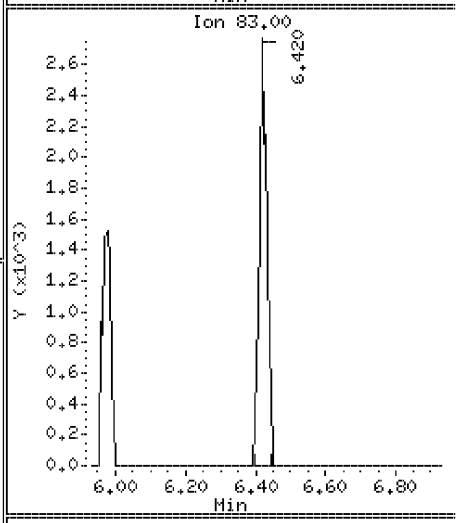


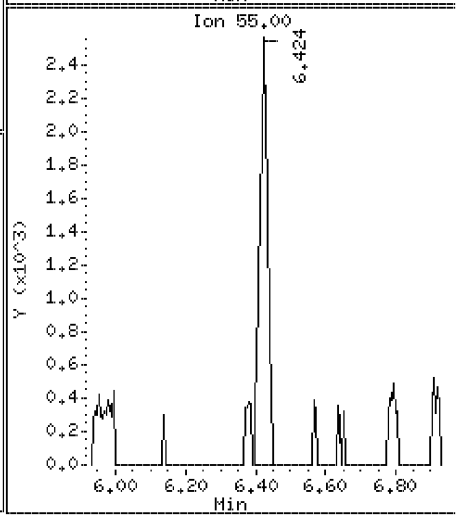












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

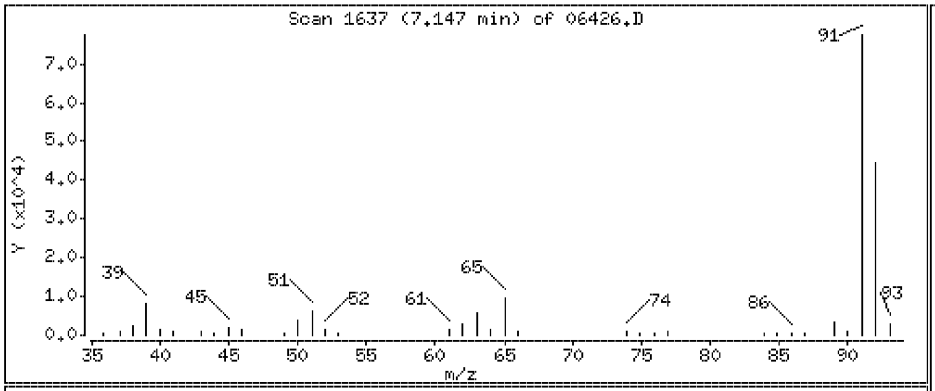
Operator: NCK

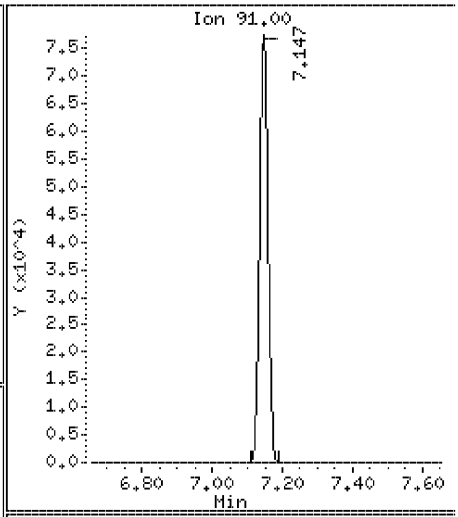
Column phase: J&W DB-5

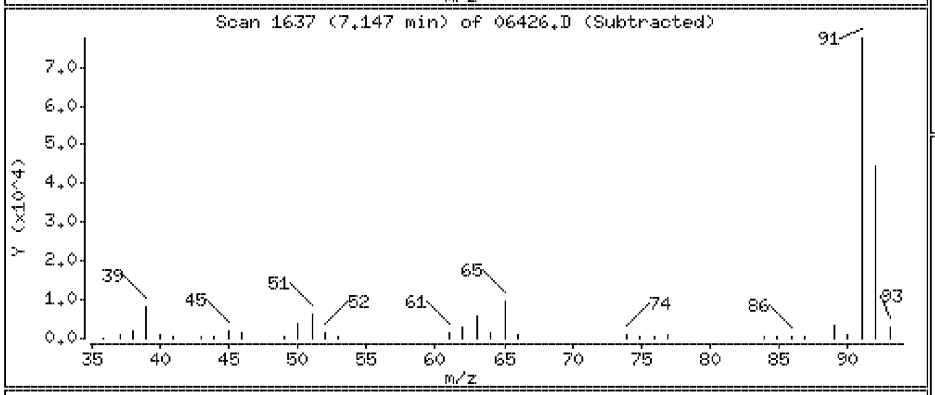
Column diameter: 0.32

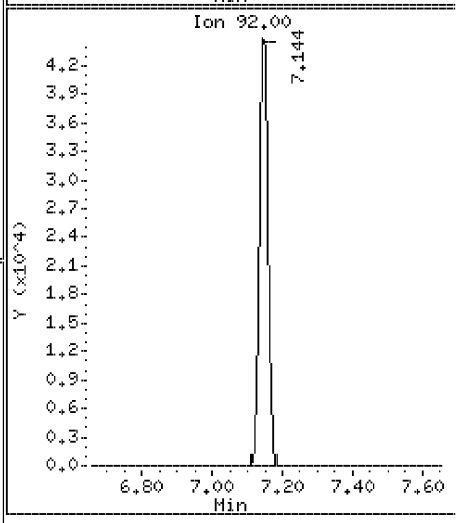
61 Toluene

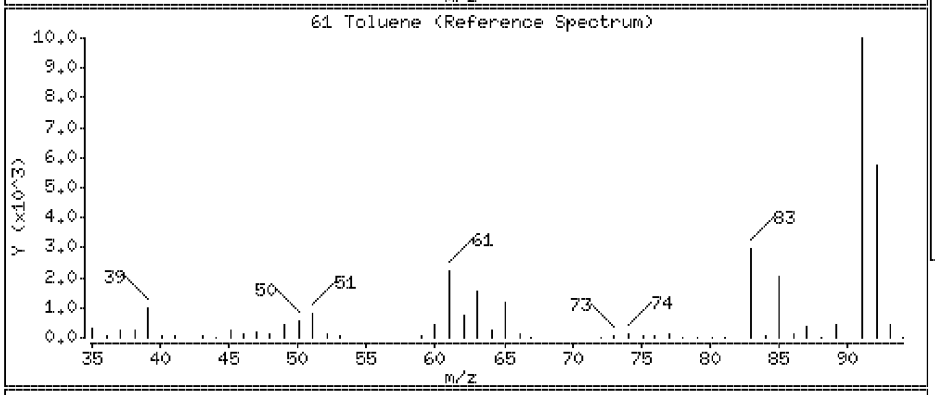
Concentration: 4.34 ppbv

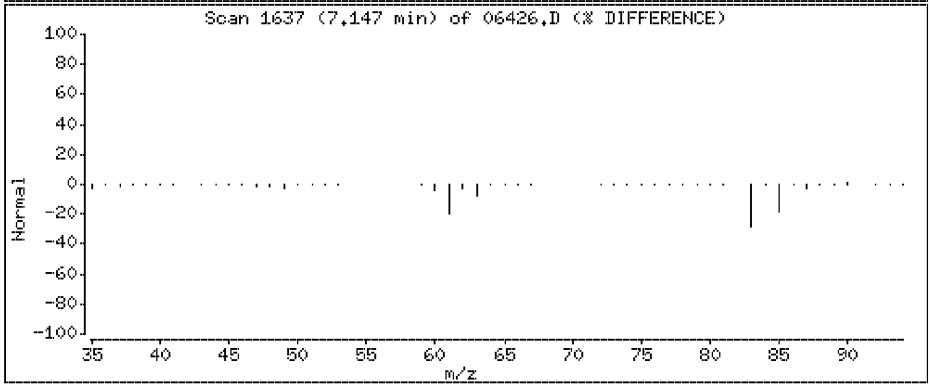












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

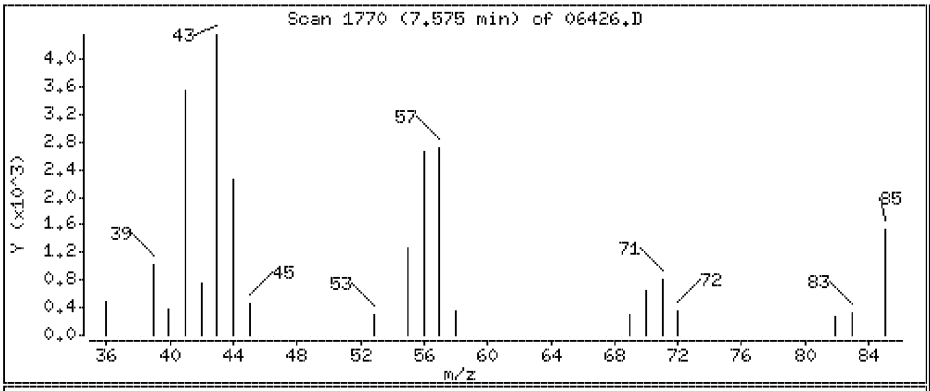
Operator: NCK

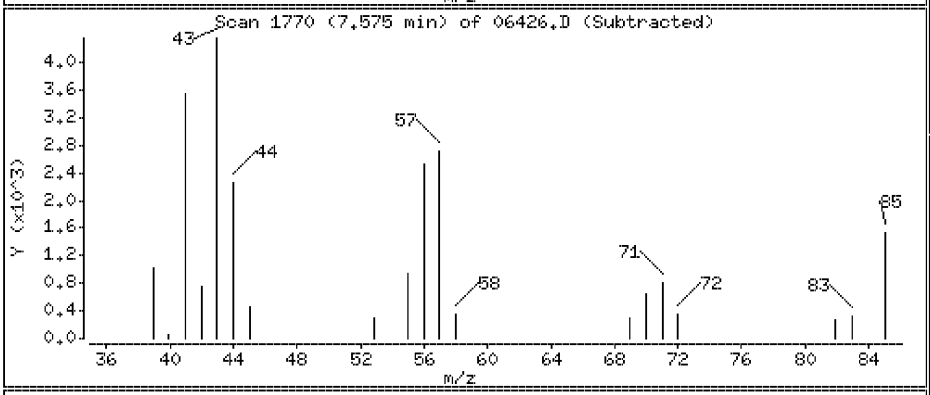
Column phase: J&W DB-5

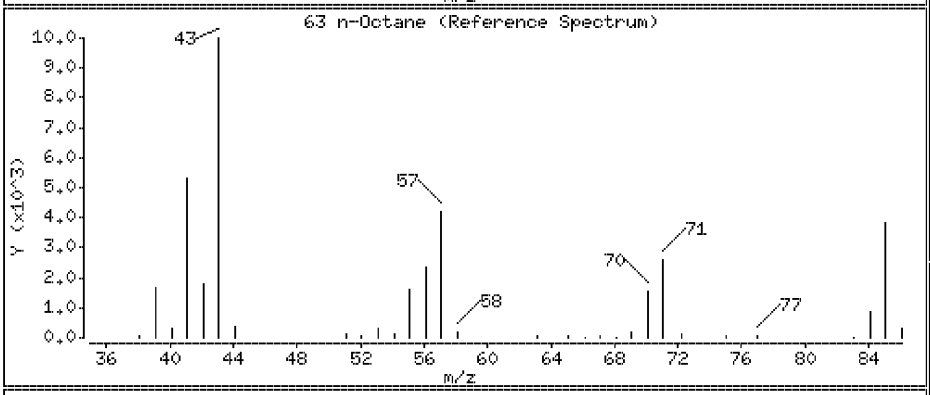
Column diameter: 0.32

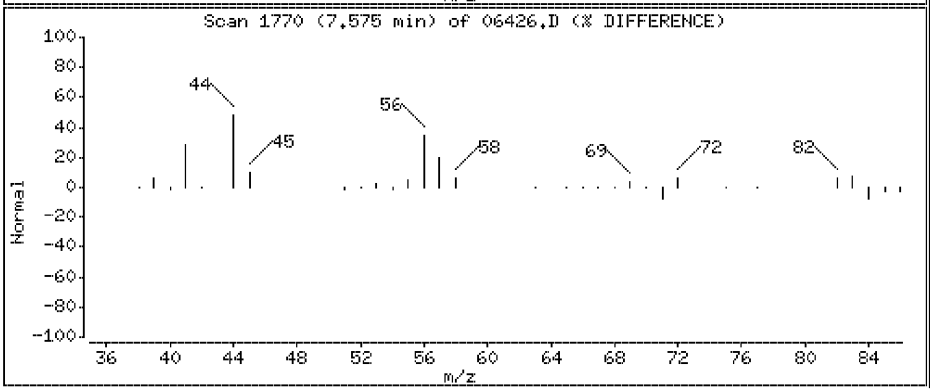
63 n-Octane

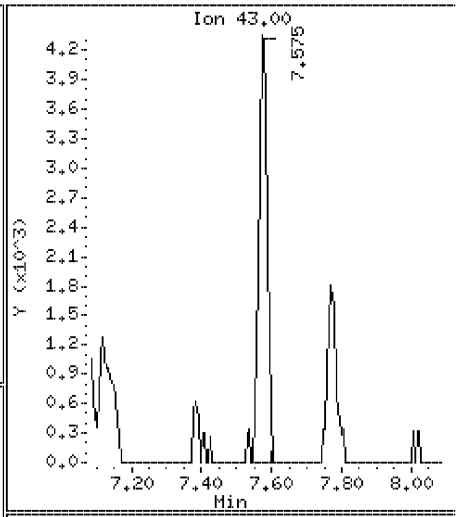
Concentration: 0.445 ppbv

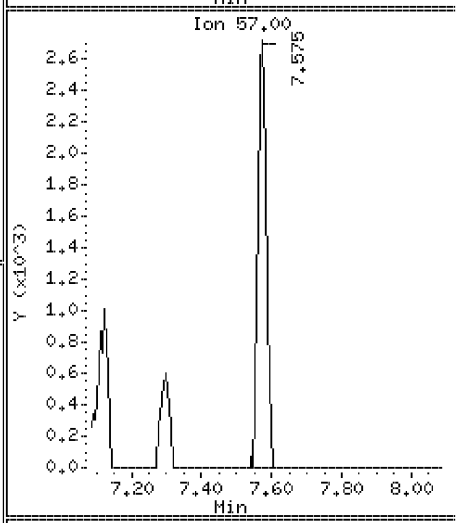


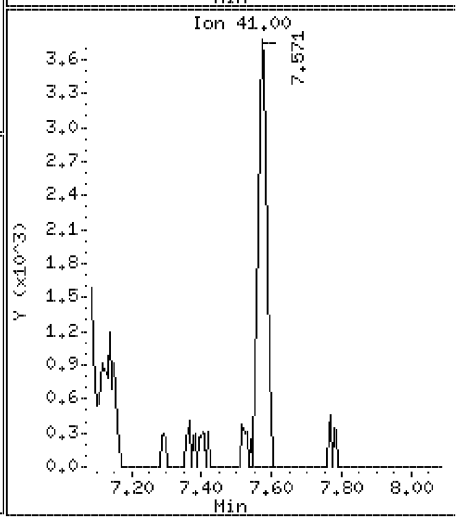












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

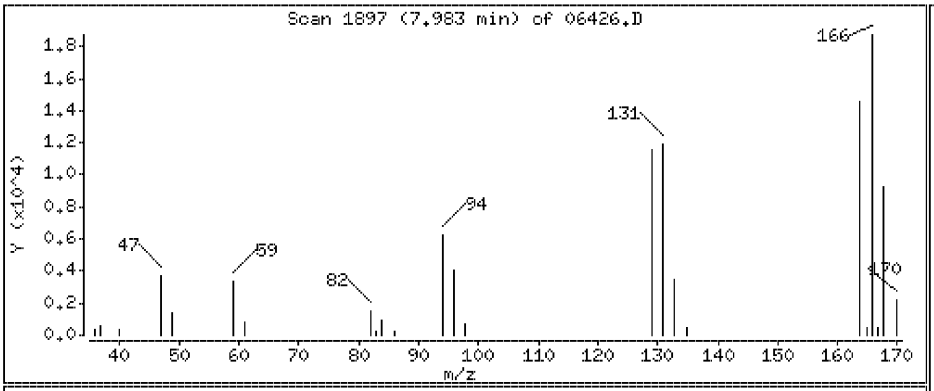
Operator: NCK

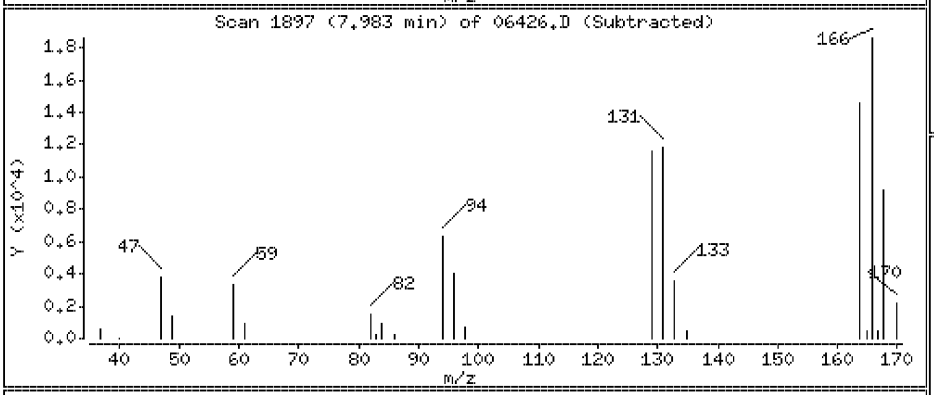
Column phase: J&W DB-5

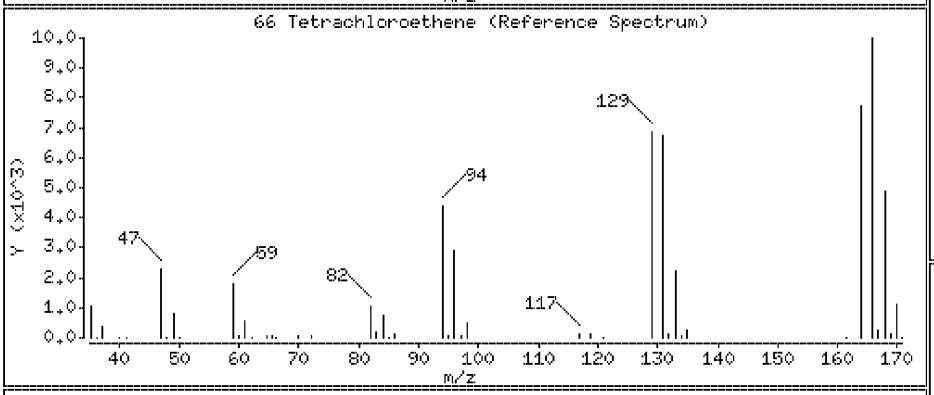
Column diameter: 0.32

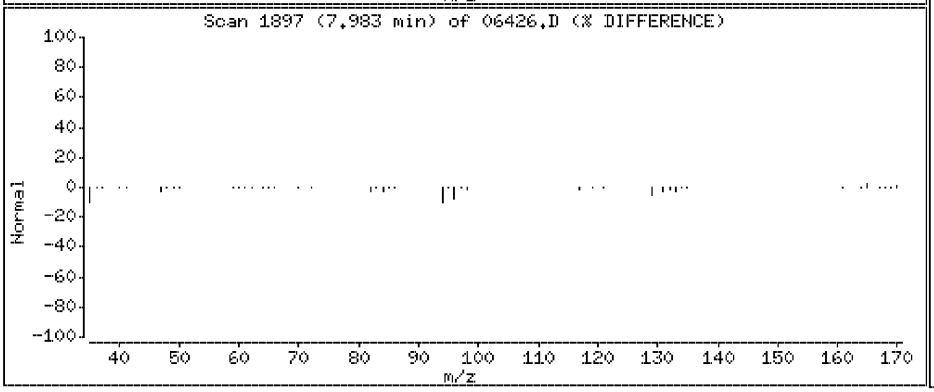
66 Tetrachloroethene

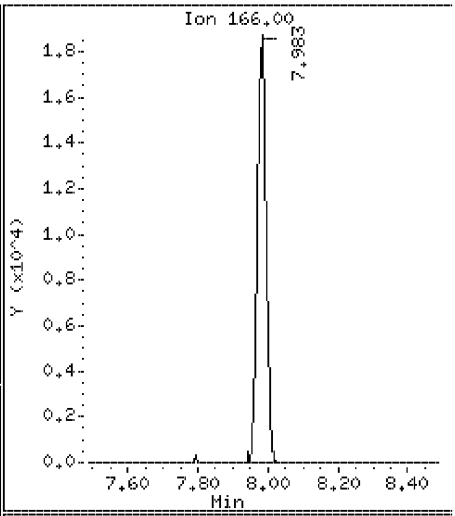
Concentration: 1.95 ppbv

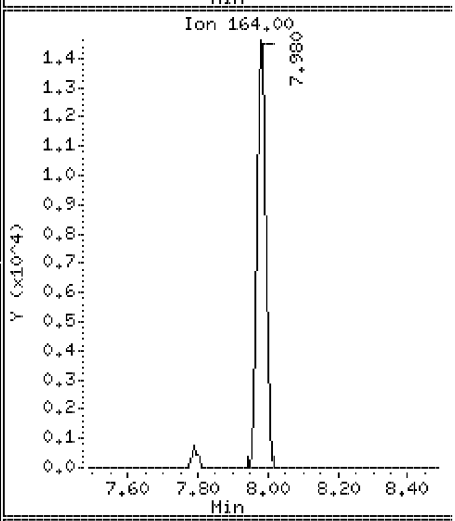


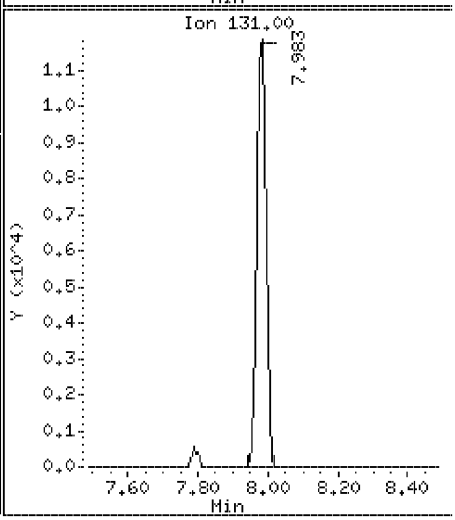












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

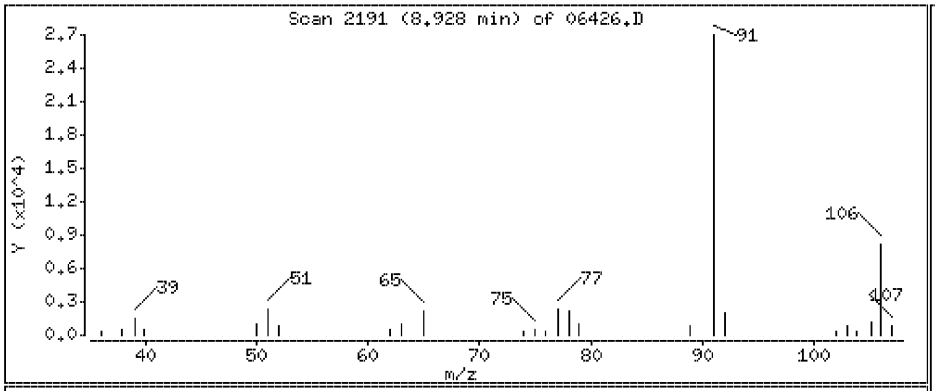
Operator: NCK

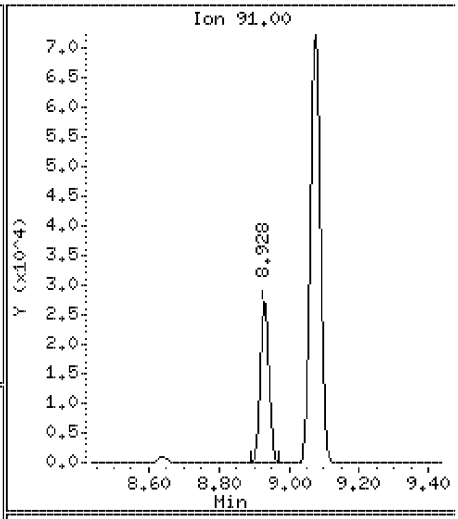
Column phase: J&W DB-5

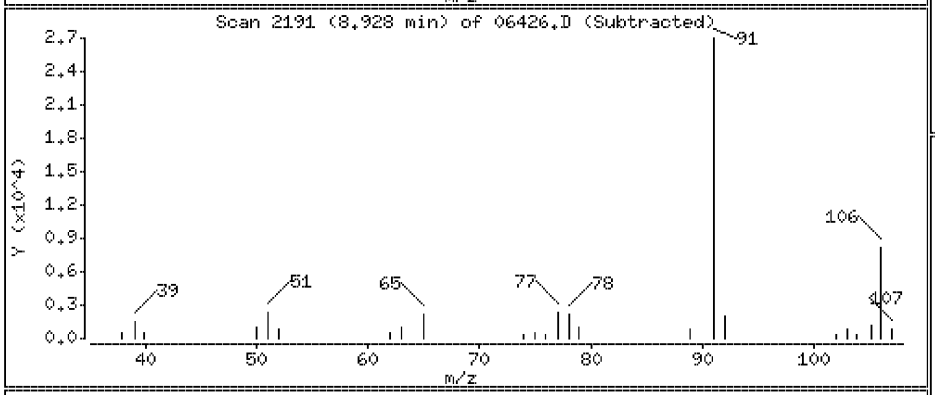
Column diameter: 0.32

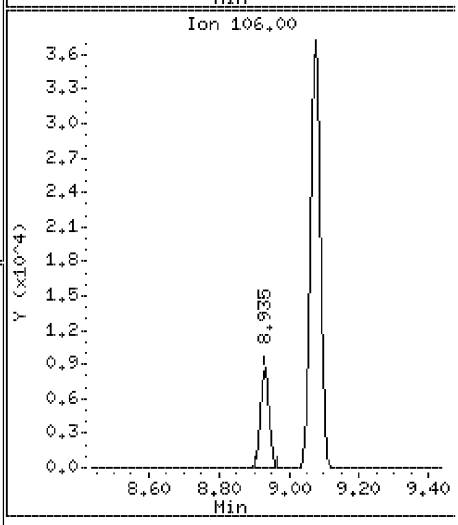
69 Ethyl Benzene

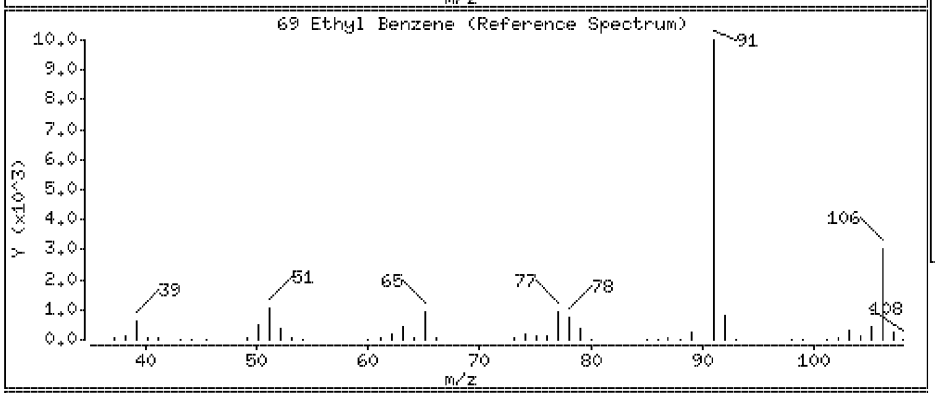
Concentration: 1.32 ppbv

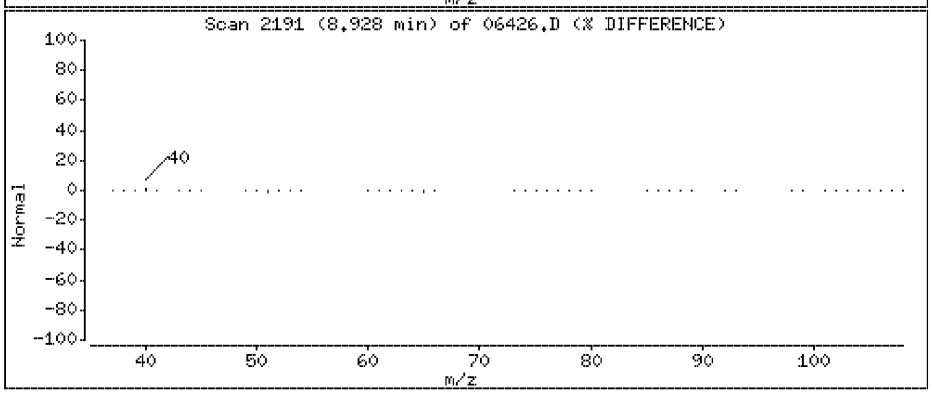












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

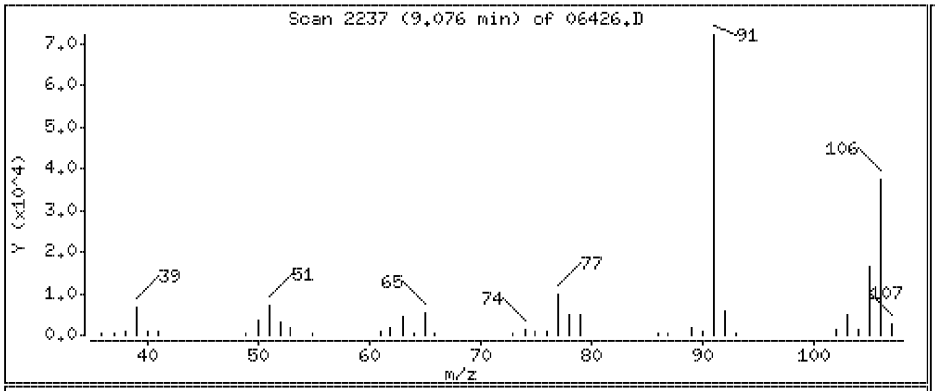
Operator: NCK

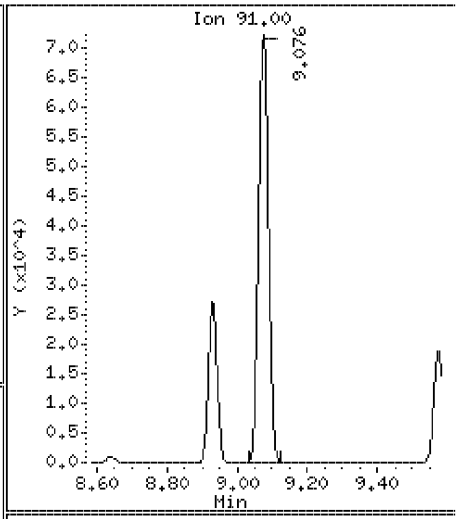
Column phase: J&W DB-5

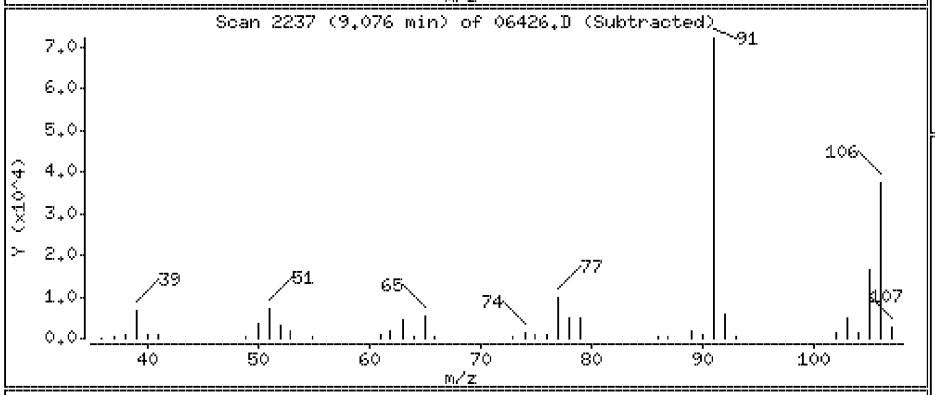
Column diameter: 0.32

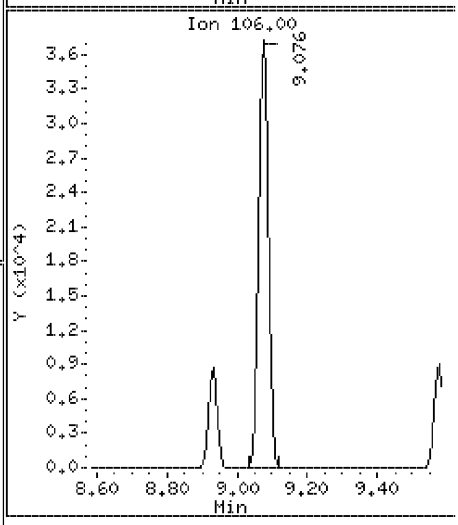
70 m&p-Xylene

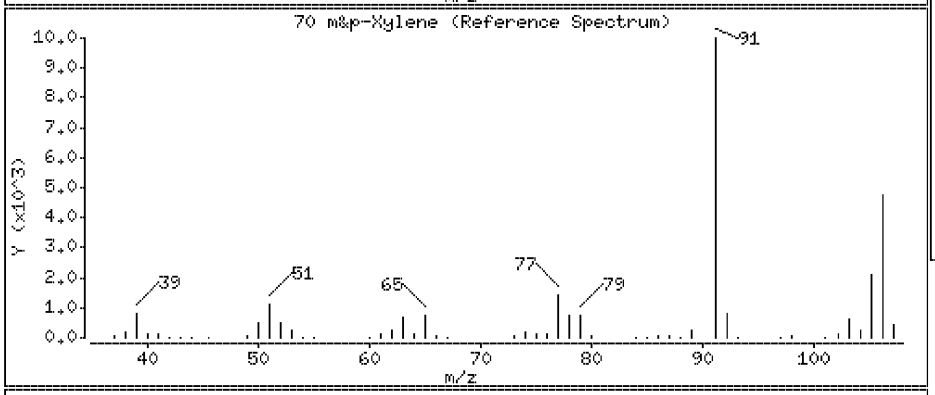
Concentration: 5.22 ppbv

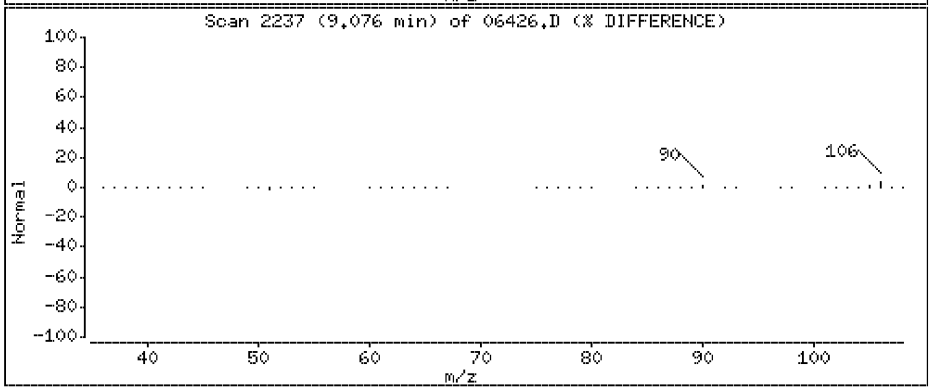












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

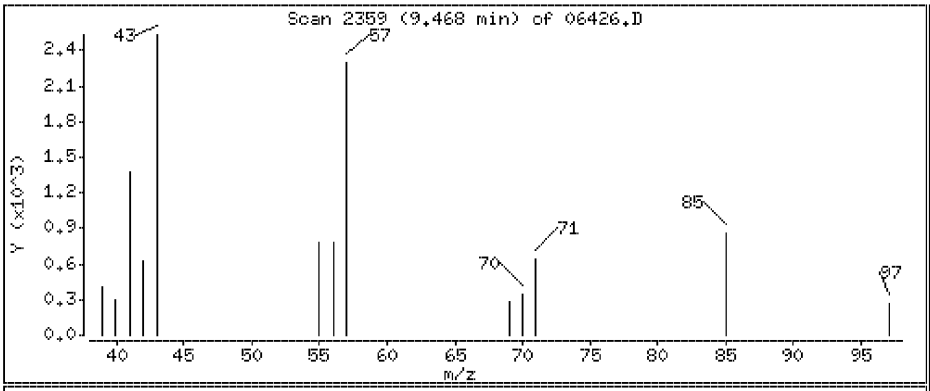
Operator: NCK

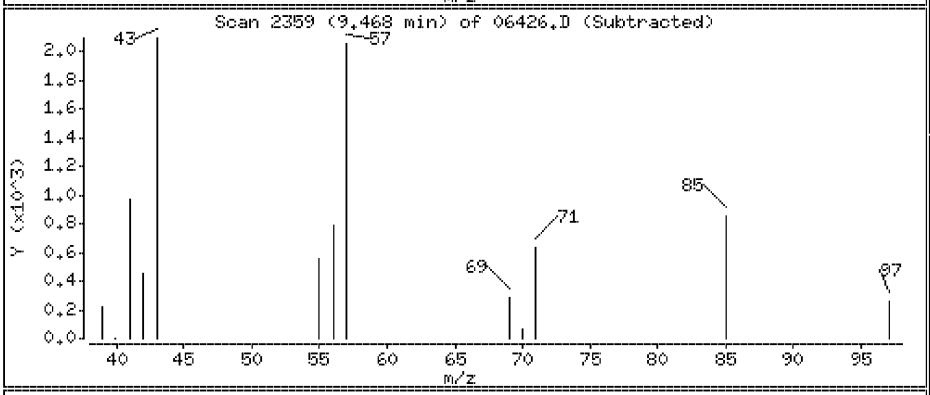
Column phase: J&W DB-5

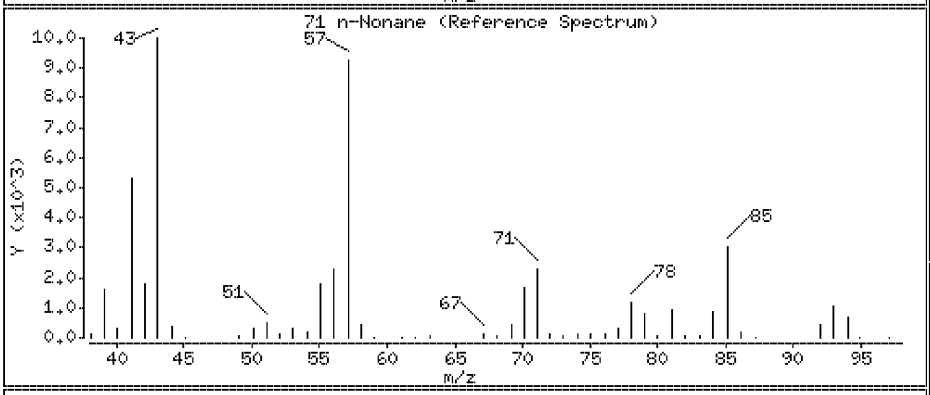
Column diameter: 0.32

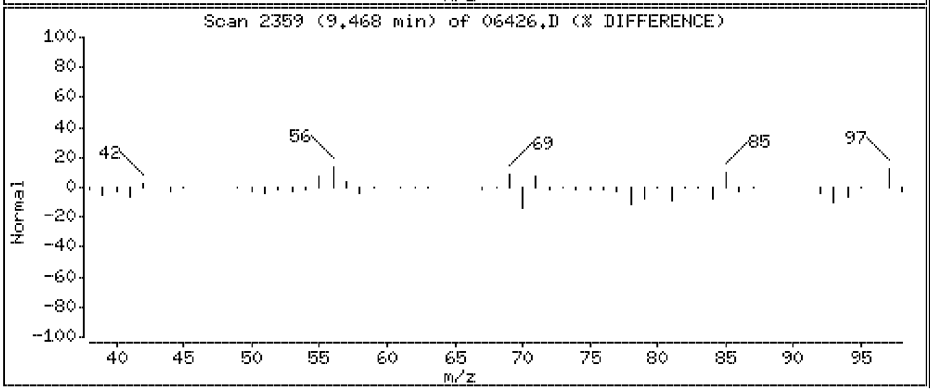
71 n-Nonane

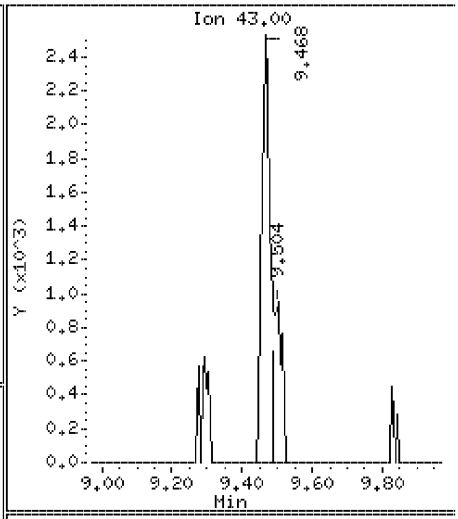
Concentration: 0.304 ppbv

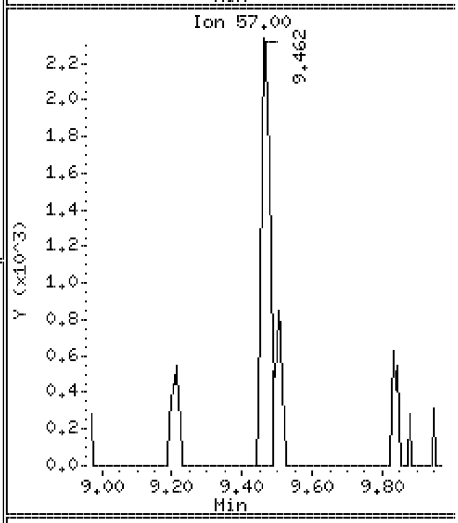


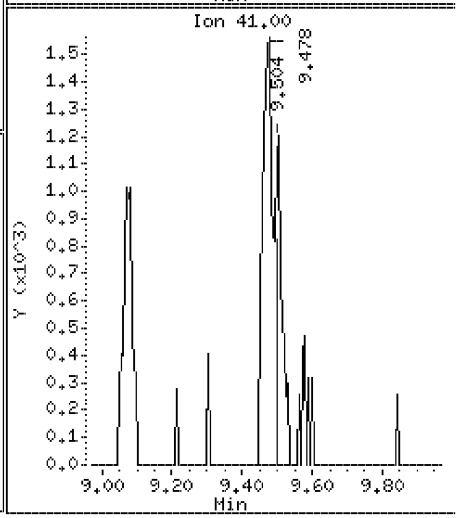












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

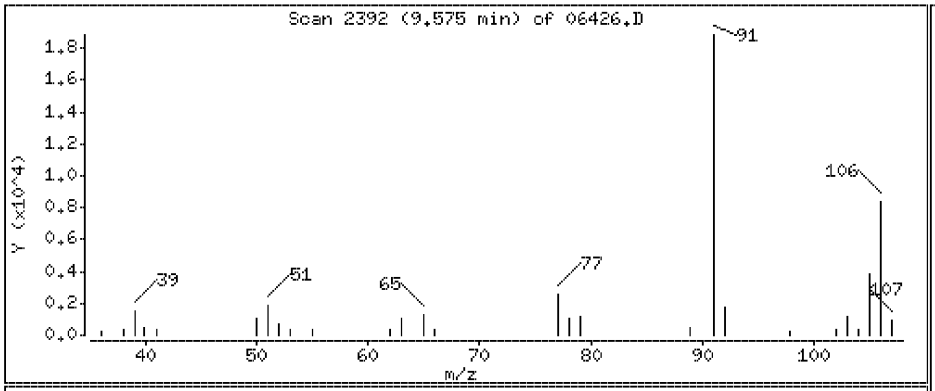
Operator: NCK

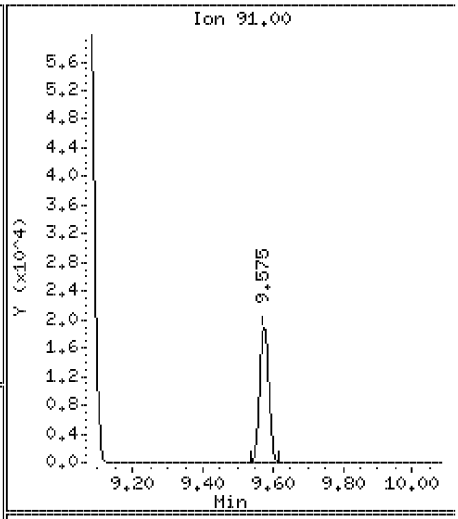
Column phase: J&W DB-5

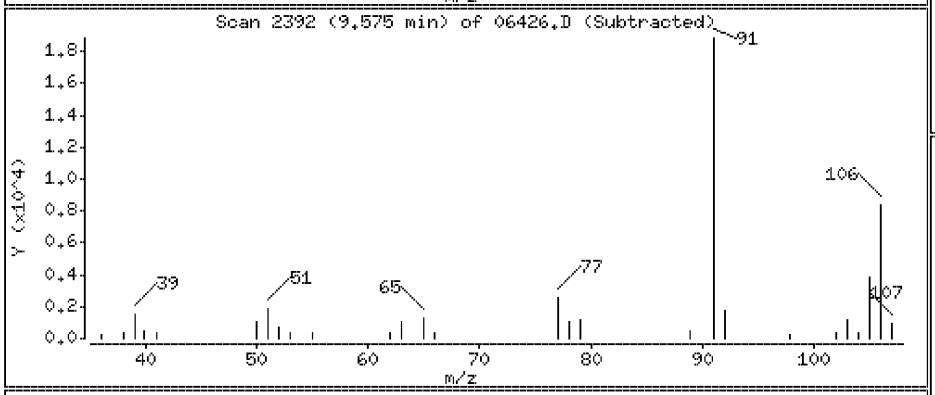
Column diameter: 0.32

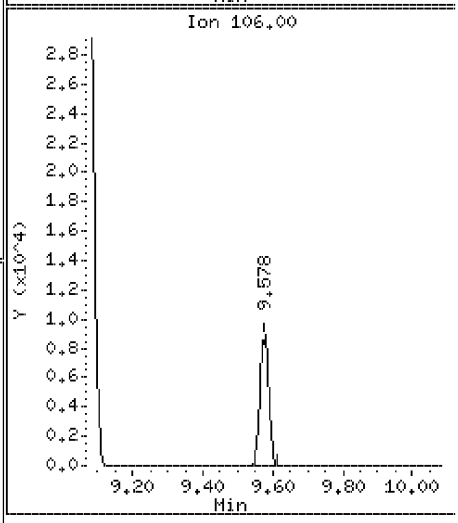
74 o-Xylene

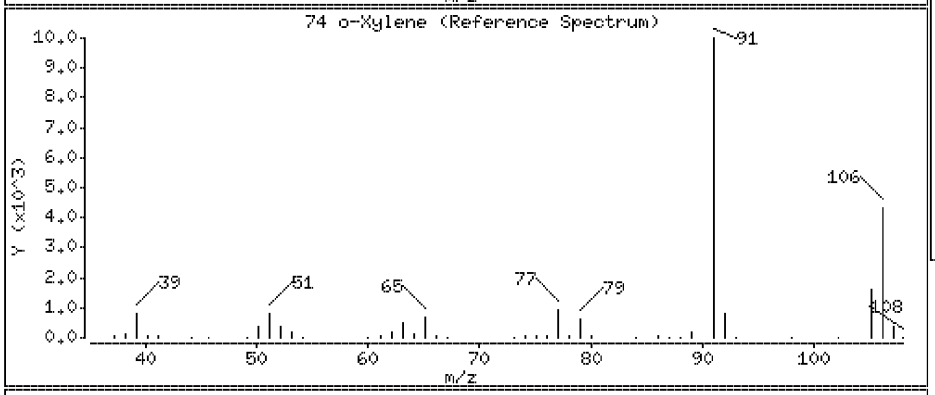
Concentration: 1.22 ppbv

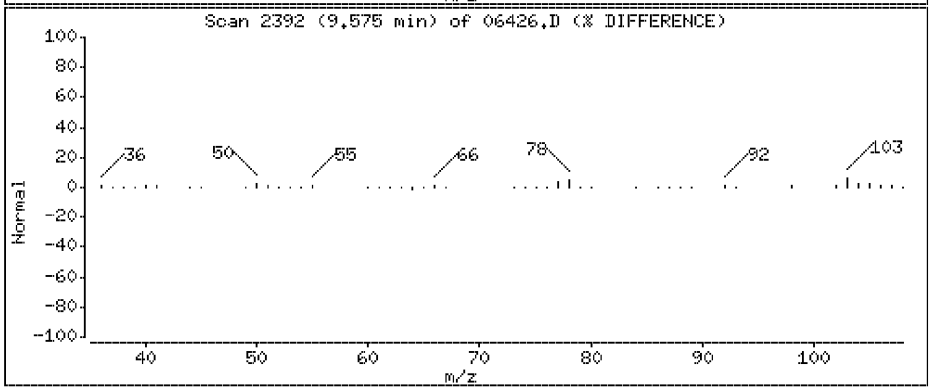












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

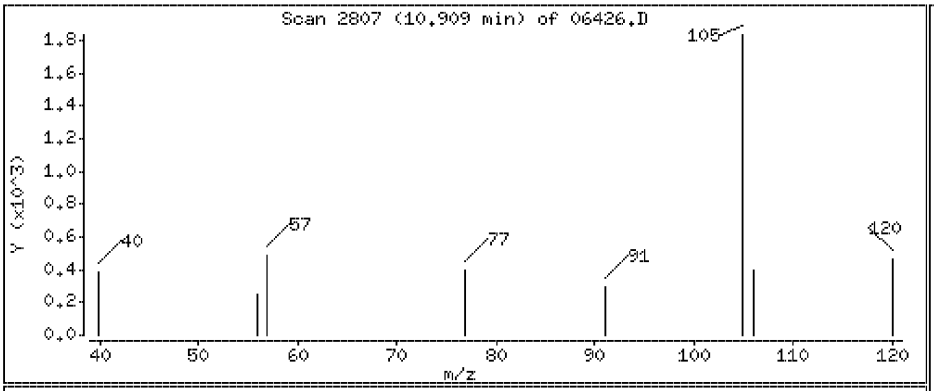
Operator: NCK

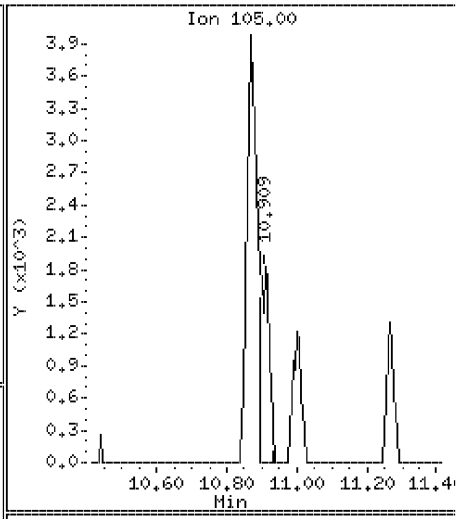
Column phase: J&W DB-5

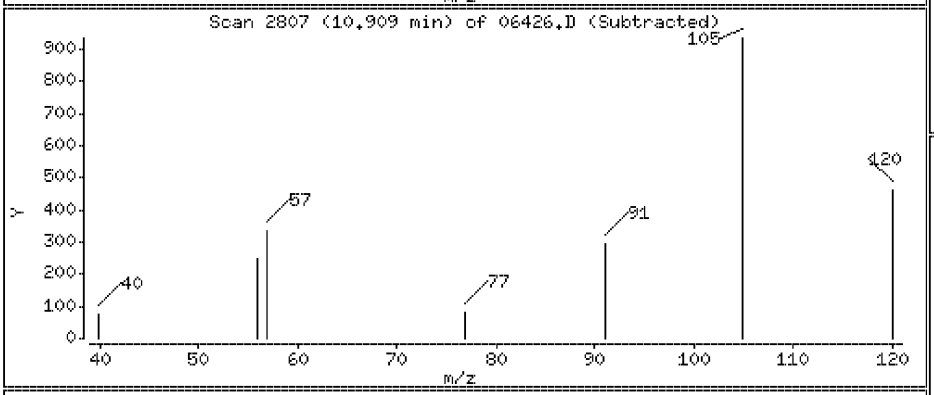
Column diameter: 0.32

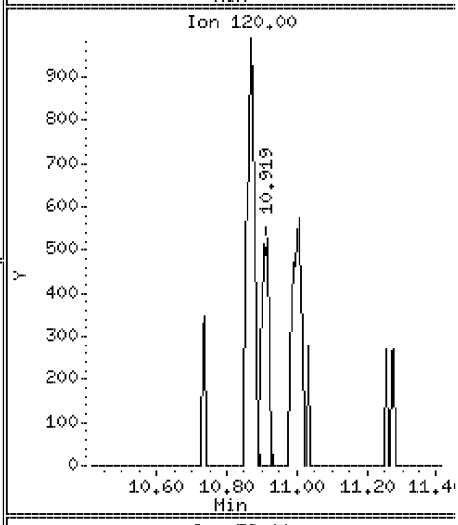
78 4-Ethyltoluene

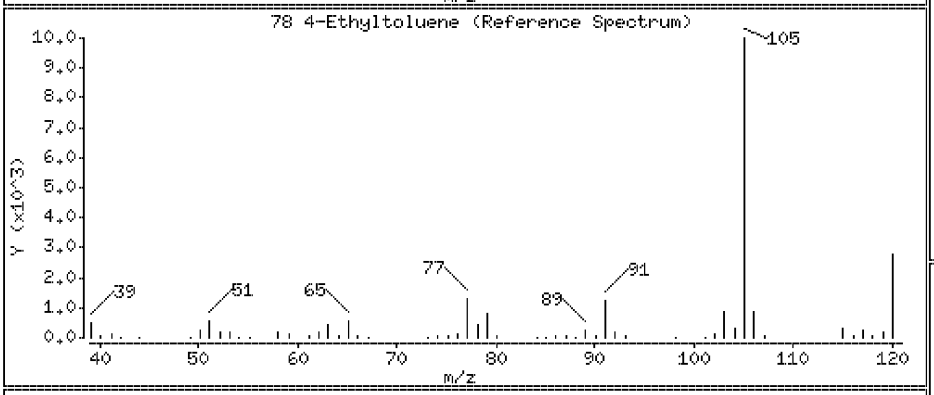
Concentration: 0.262 ppbv

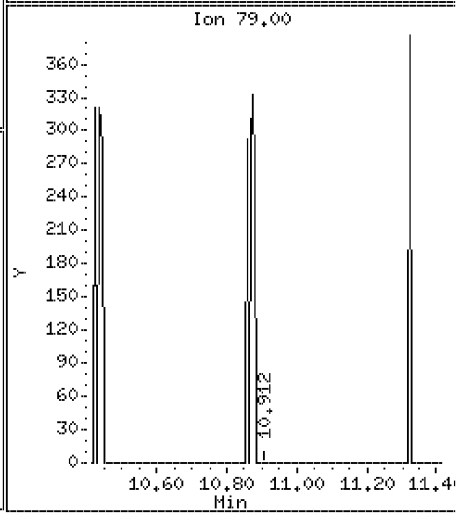


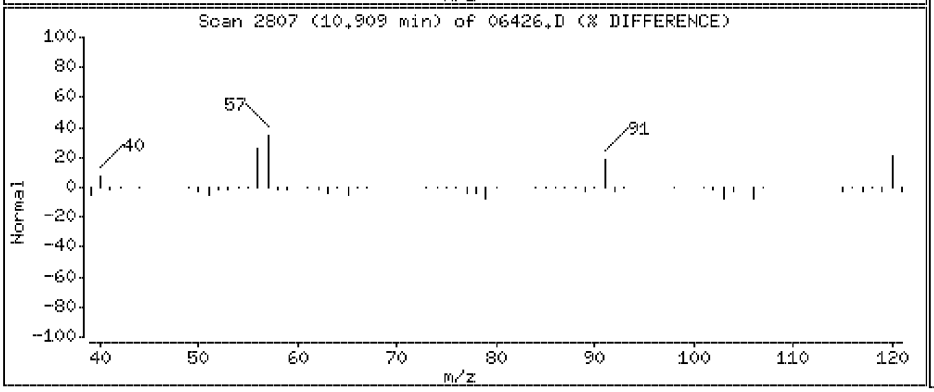












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

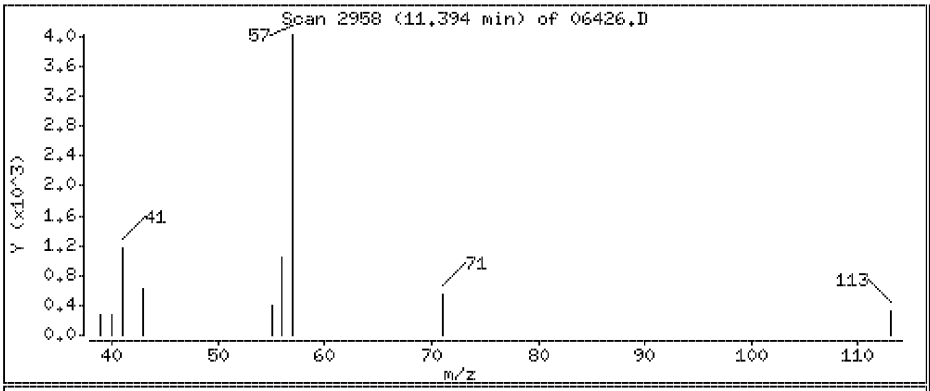
Operator: NCK

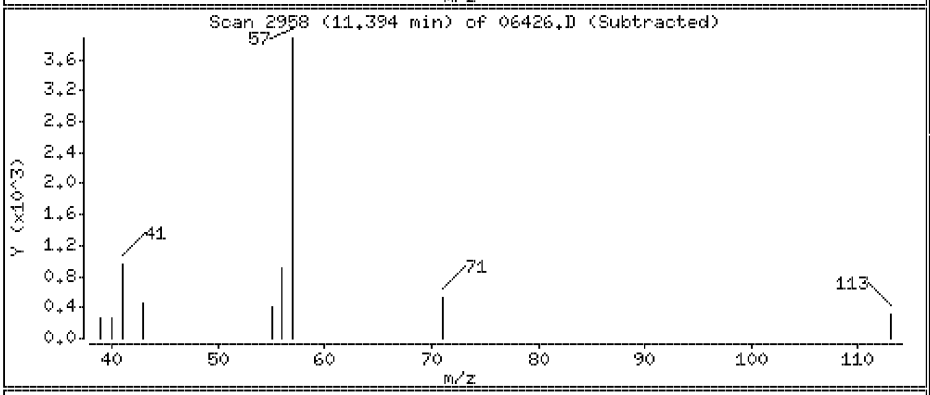
Column phase: J&W DB-5

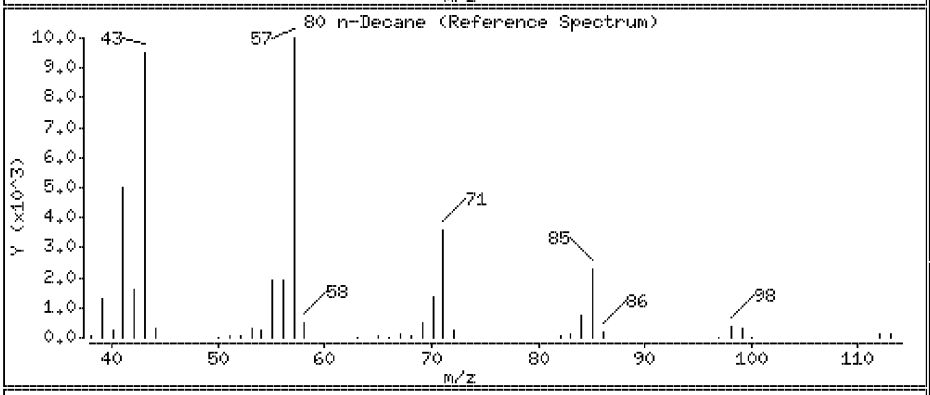
Column diameter: 0.32

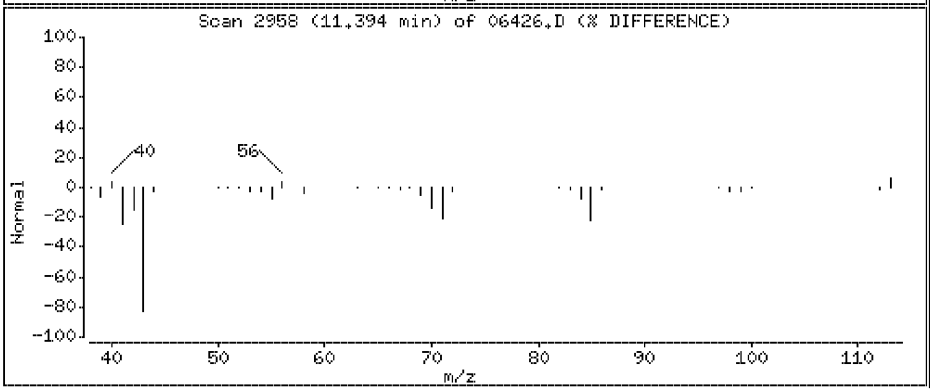
80 n-Decane

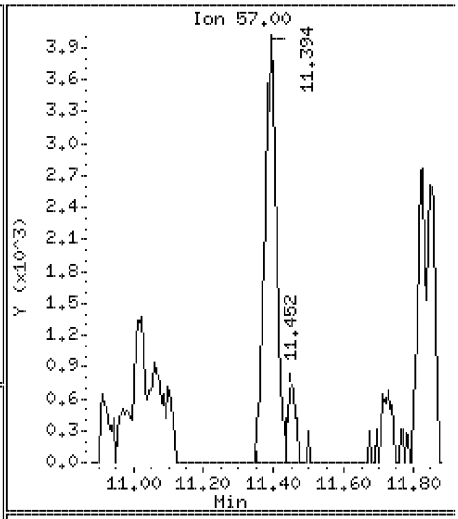
Concentration: 0.944 ppbv

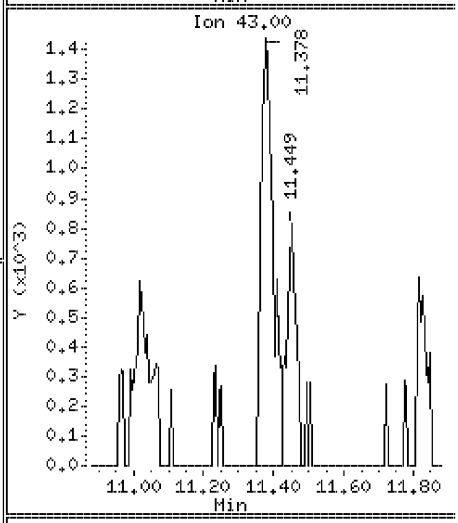


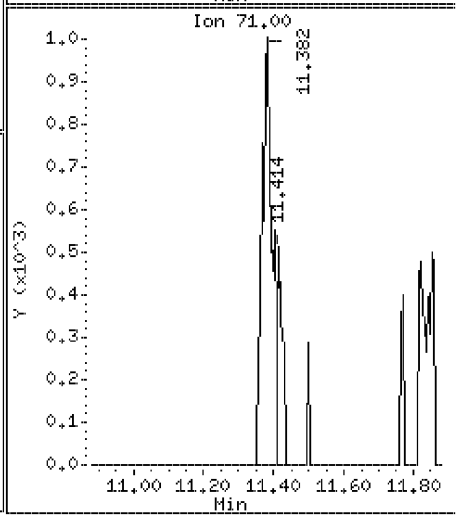












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

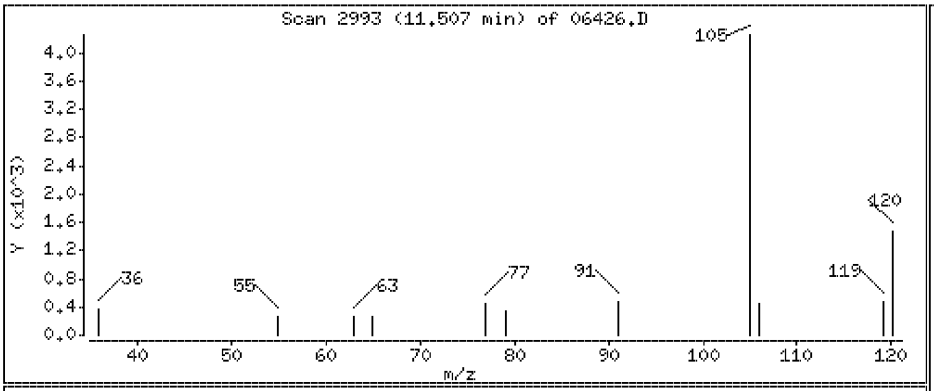
Operator: NCK

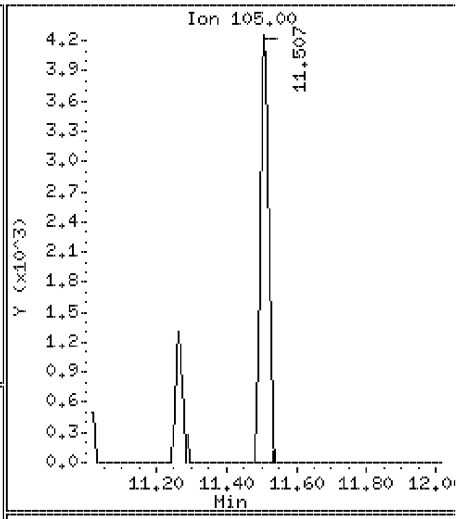
Column phase: J&W DB-5

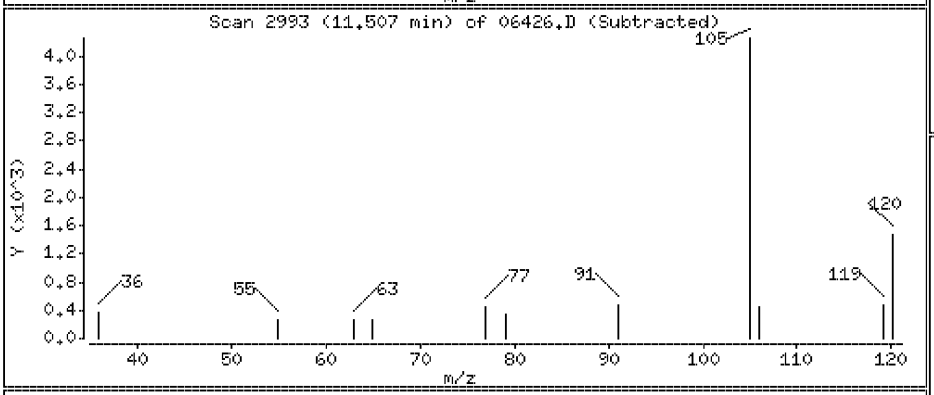
Column diameter: 0.32

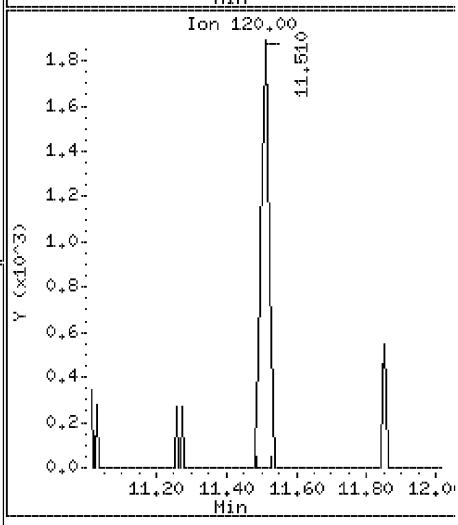
82 1,2,4-Trimethylbenzene

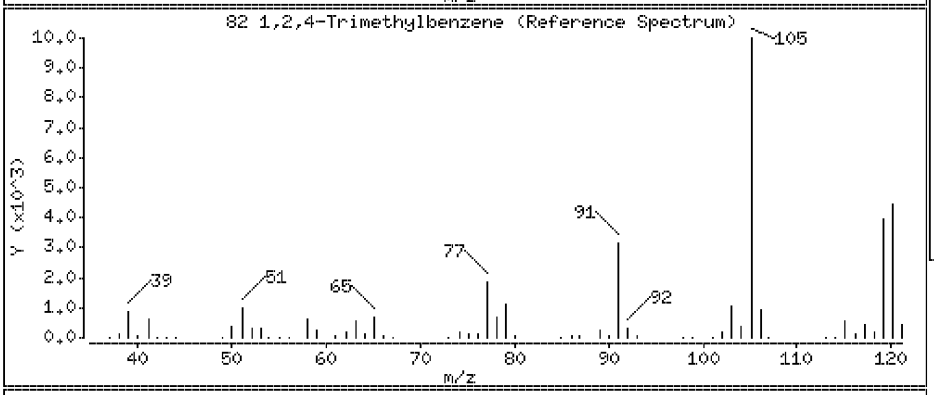
Concentration: 0.243 ppbv

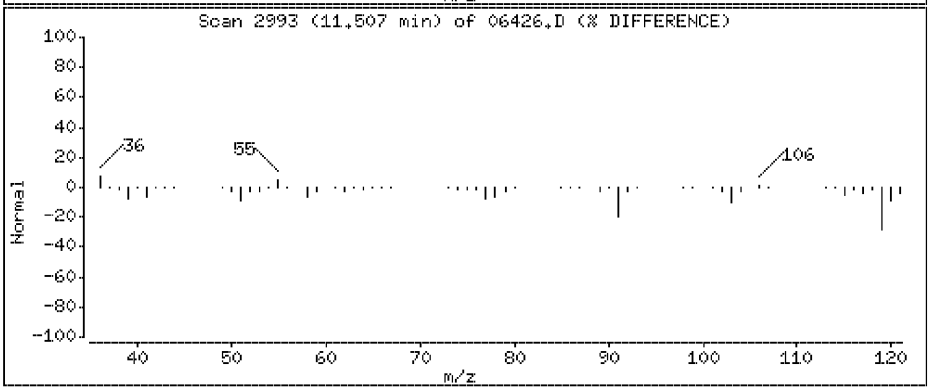












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06426.D

Date : 05-MAR-2017 22:04

Client ID:

Instrument: 10airB.i

Sample Info:

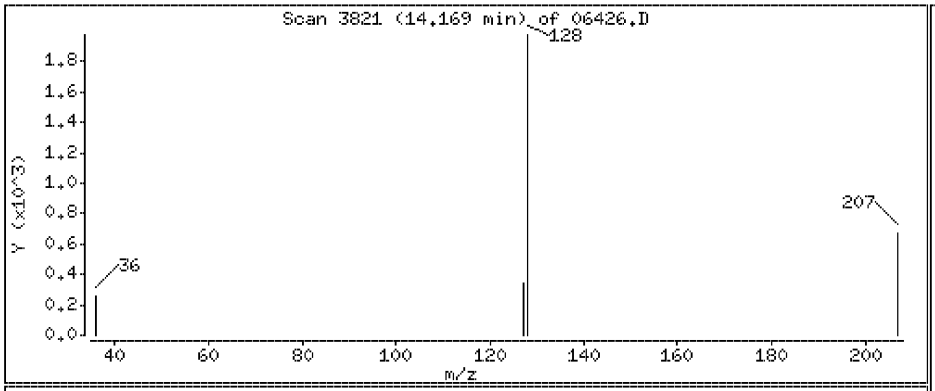
Operator: NCK

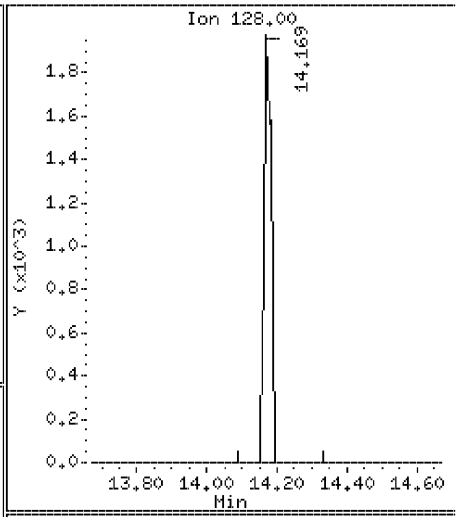
Column phase: J&W DB-5

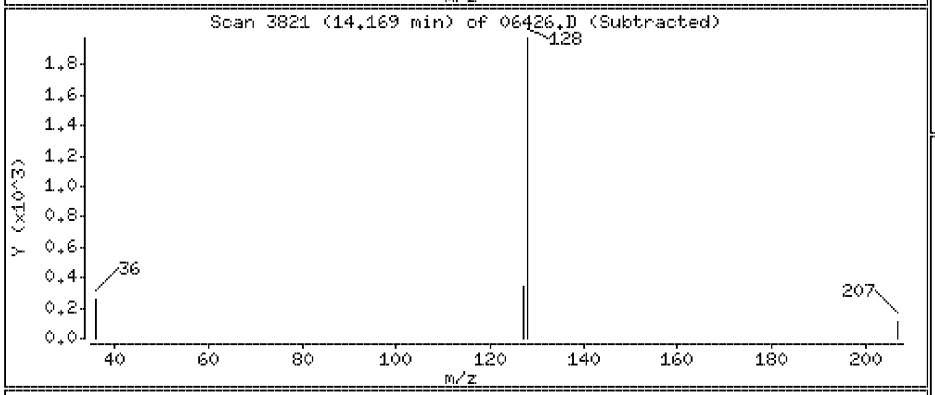
Column diameter: 0.32

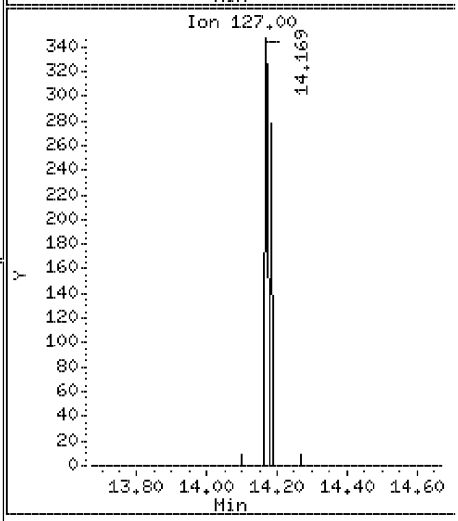
94 Naphthalene

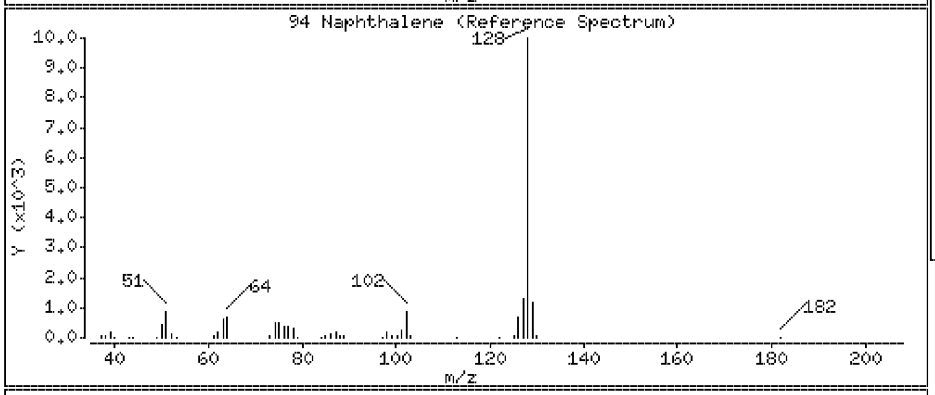
Concentration: 0.793 ppbv

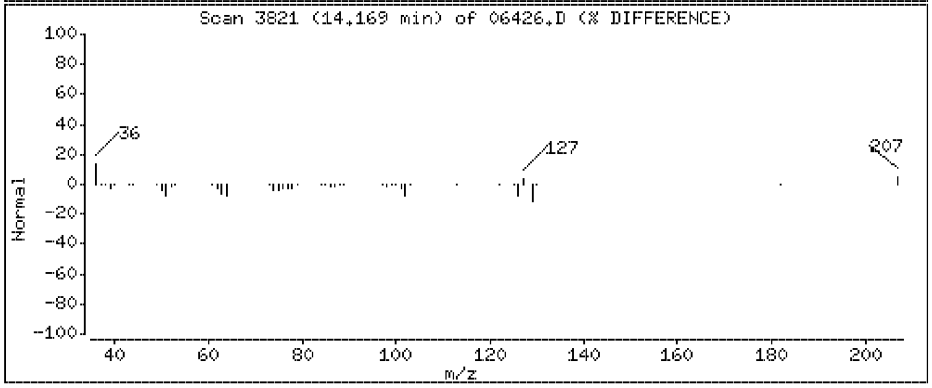






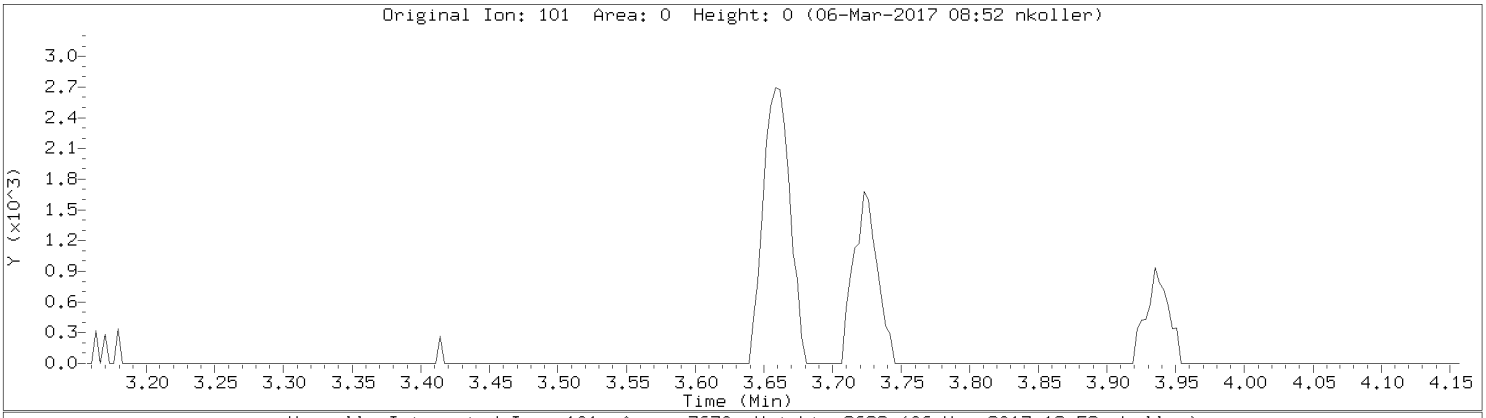


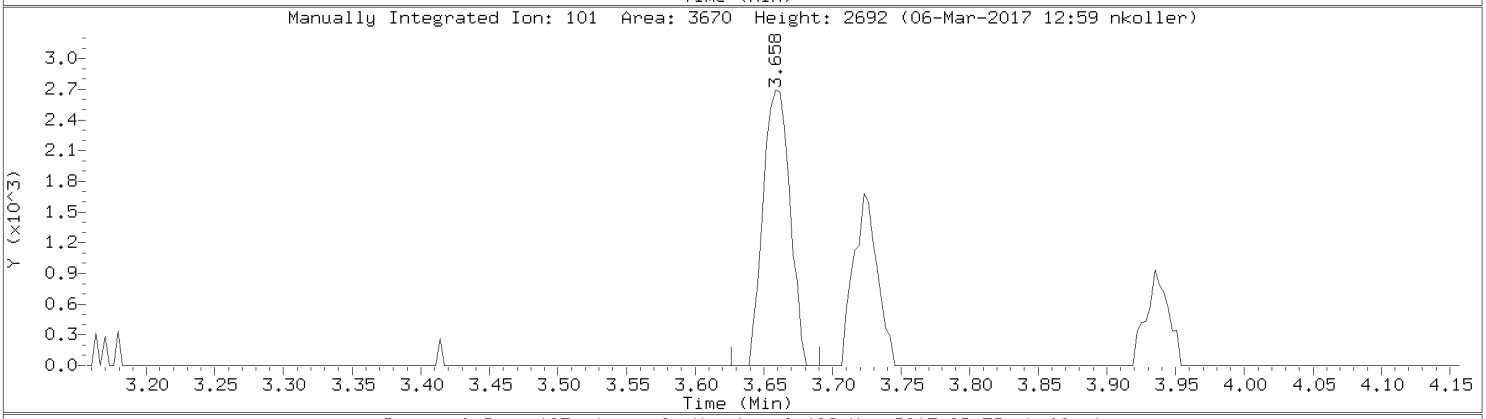


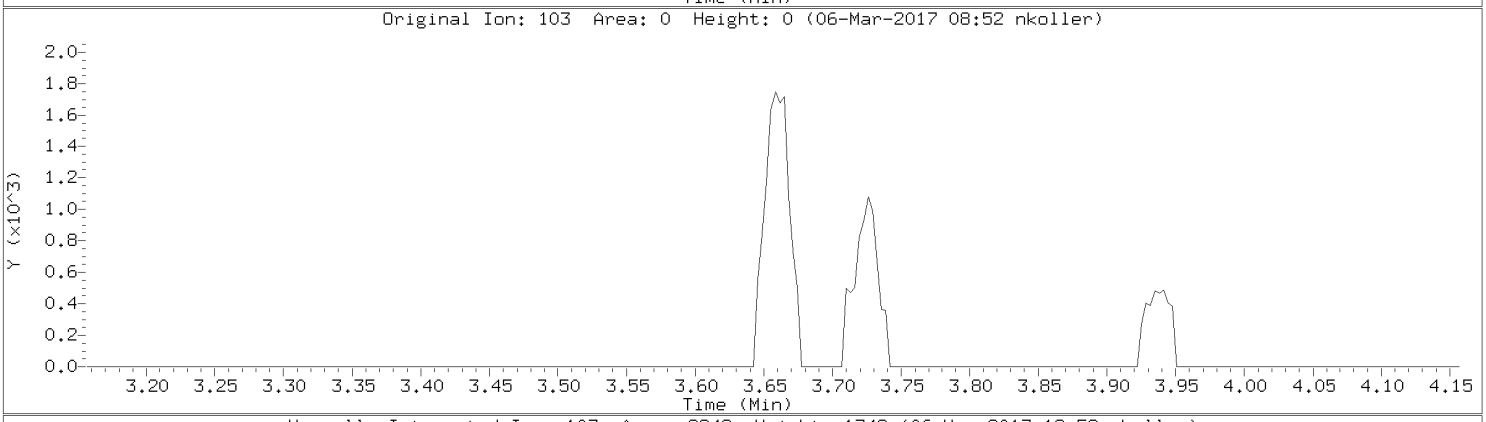


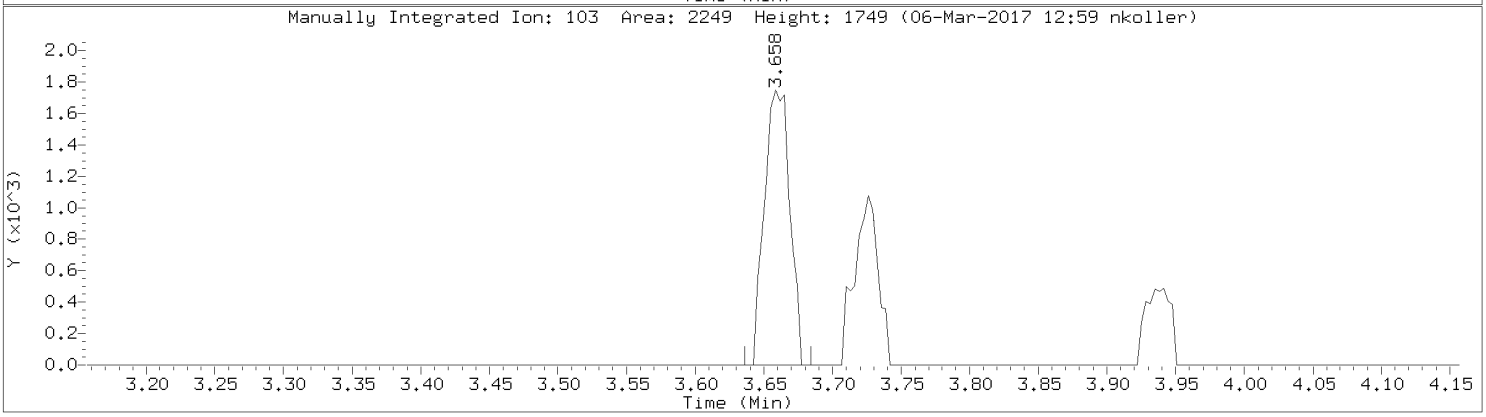
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06426.D
Injection Date: 05-MAR-2017 22:04
Instrument: 10airB.i
Lab Sample ID: 10380193007

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

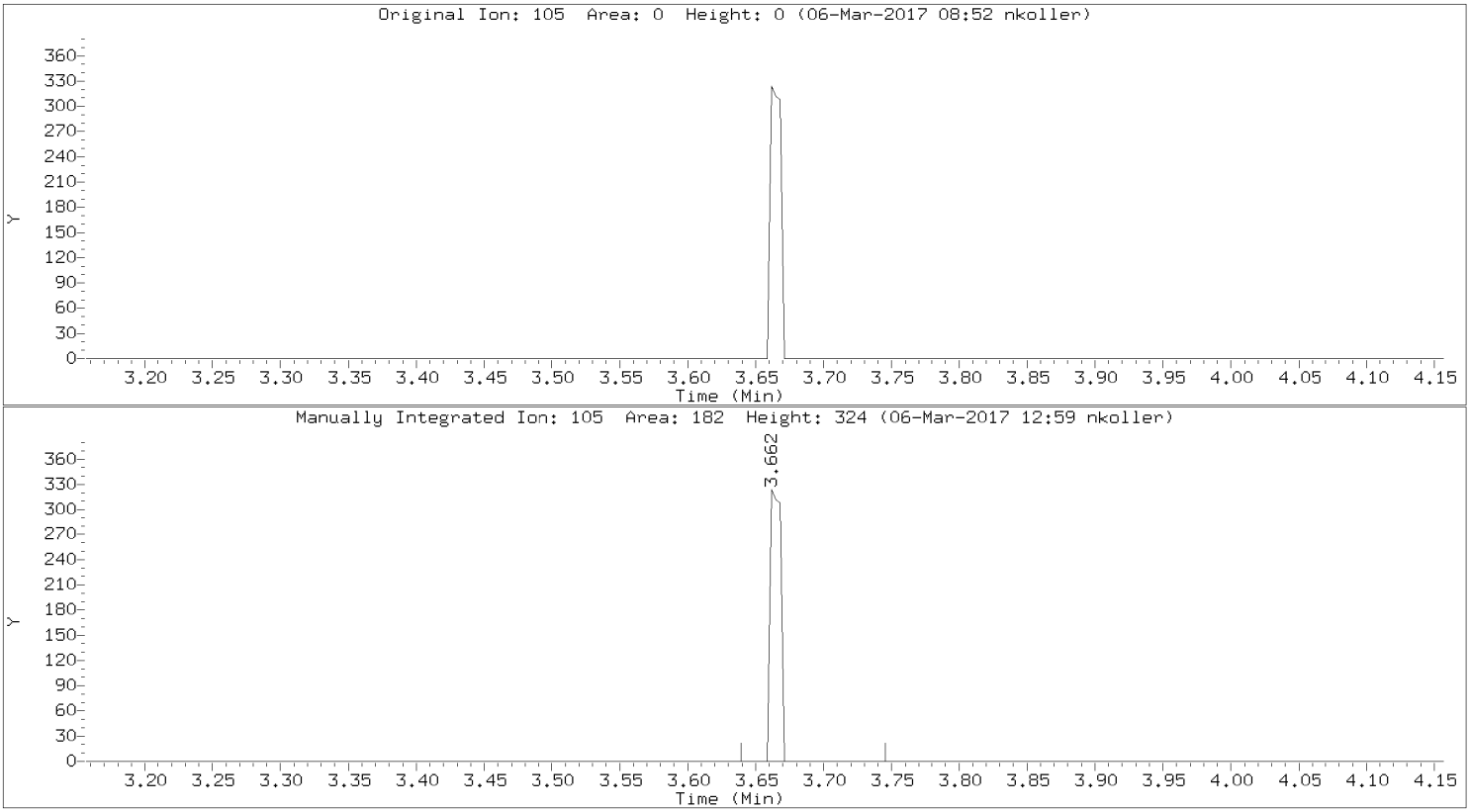






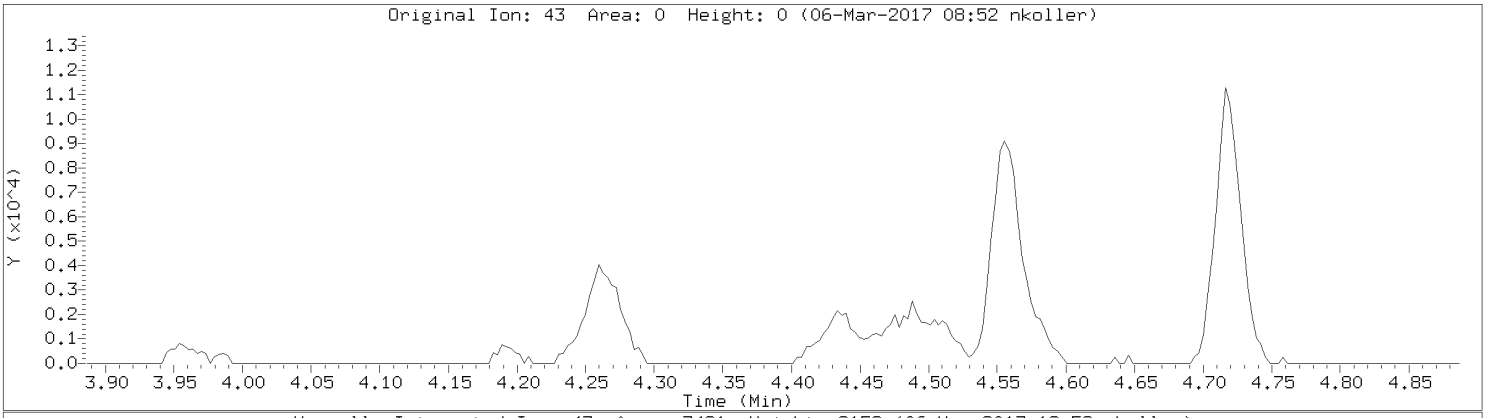


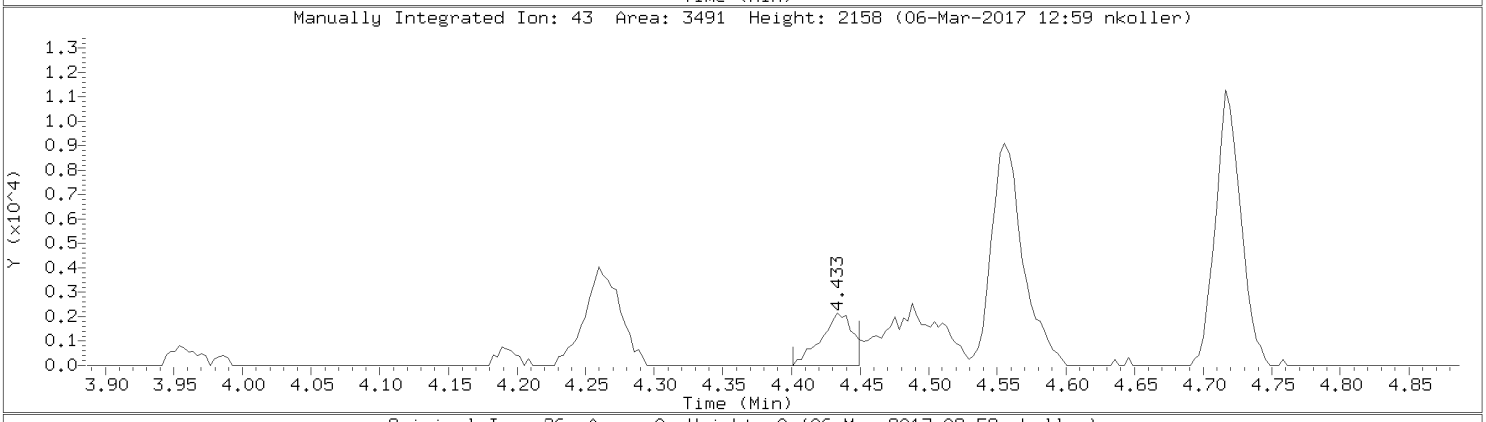
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06426.D
Injection Date: 05-MAR-2017 22:04
Instrument: 10airB.i
Lab Sample ID: 10380193007

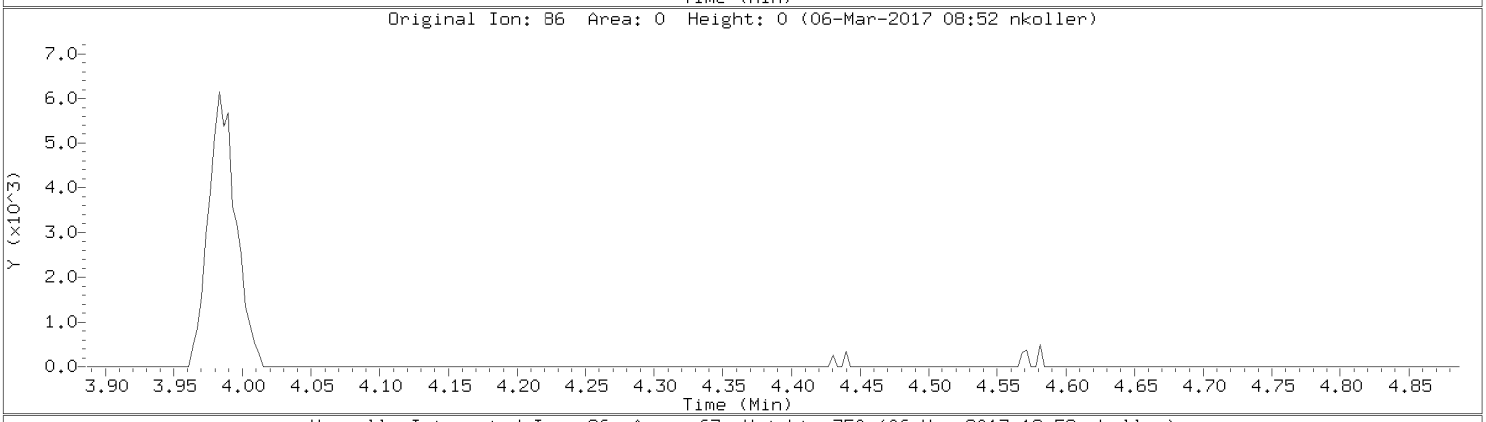


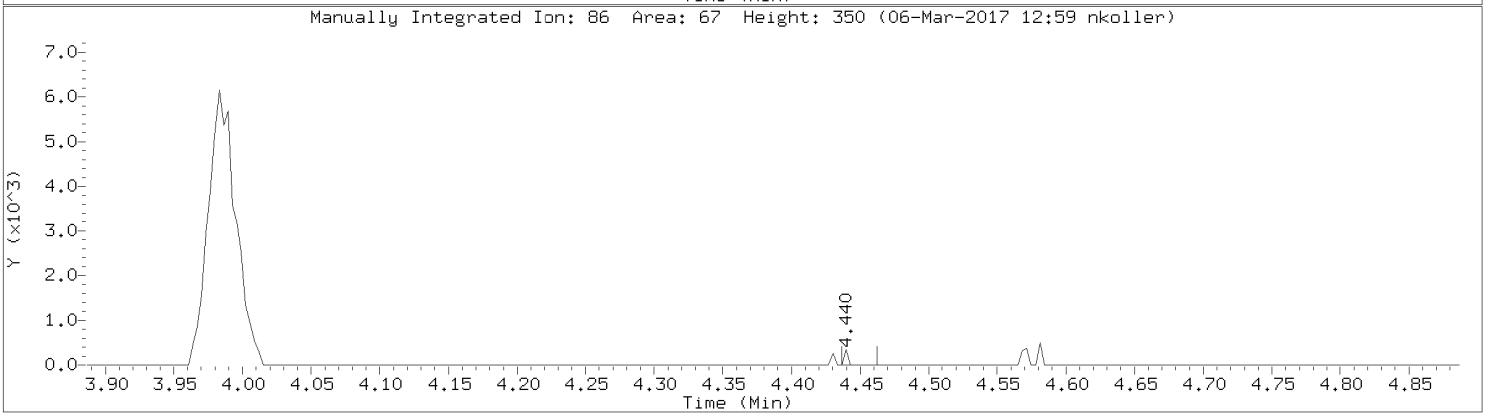
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06426.D
Injection Date: 05-MAR-2017 22:04
Instrument: 10airB.i
Lab Sample ID: 10380193007

Compound: Vinyl Acetate
CAS Number: 108-05-4



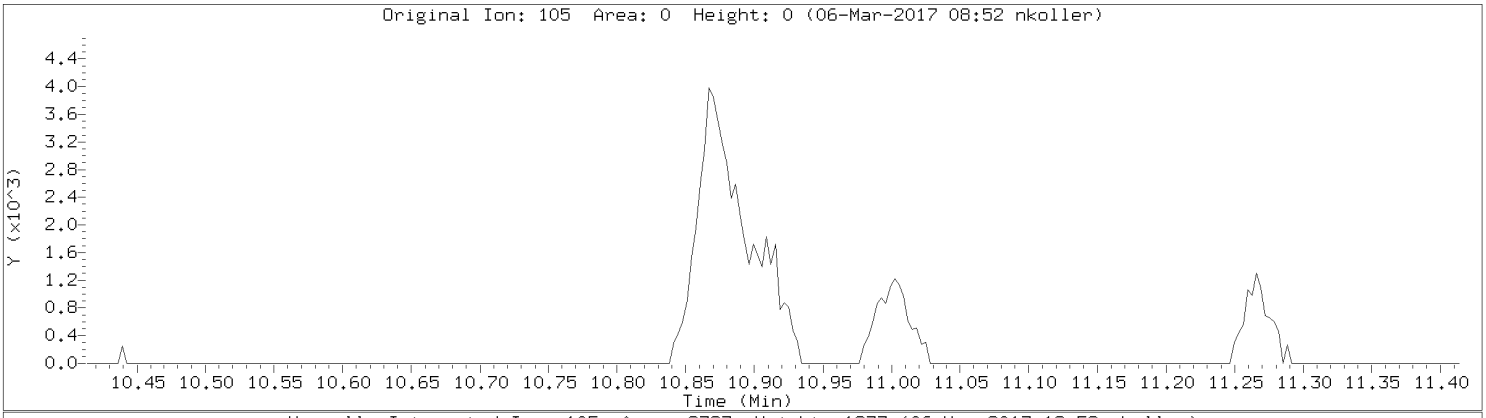


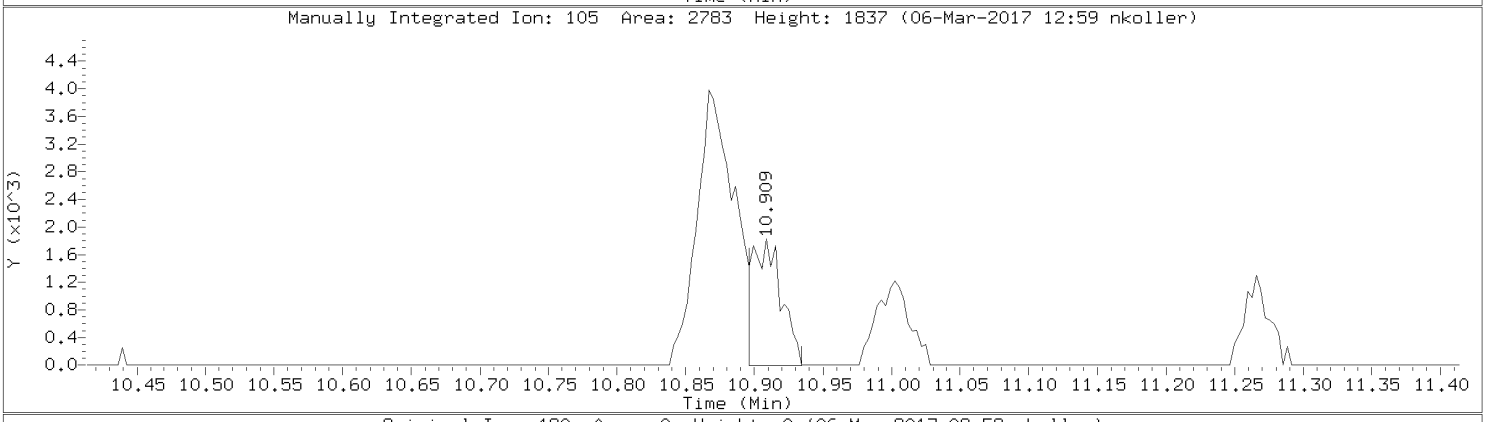


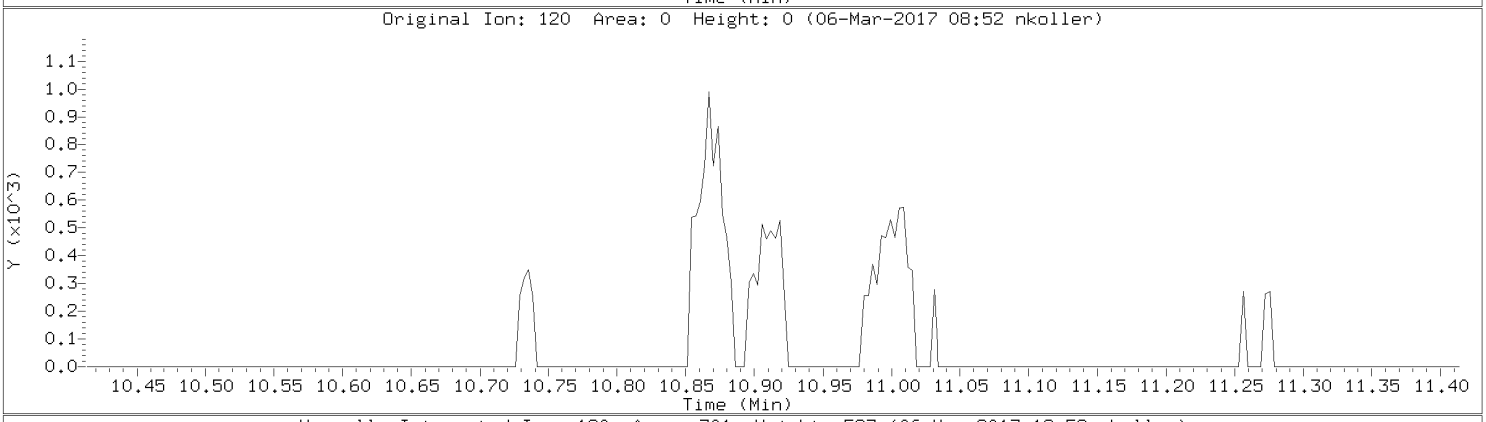


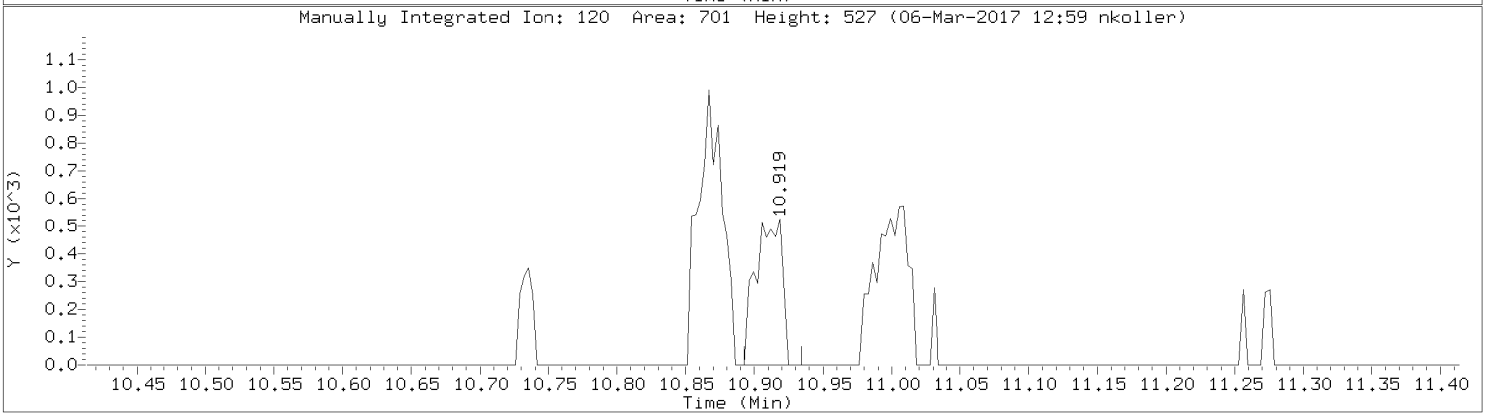
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06426.D
Injection Date: 05-MAR-2017 22:04
Instrument: 10airB.i
Lab Sample ID: 10380193007

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

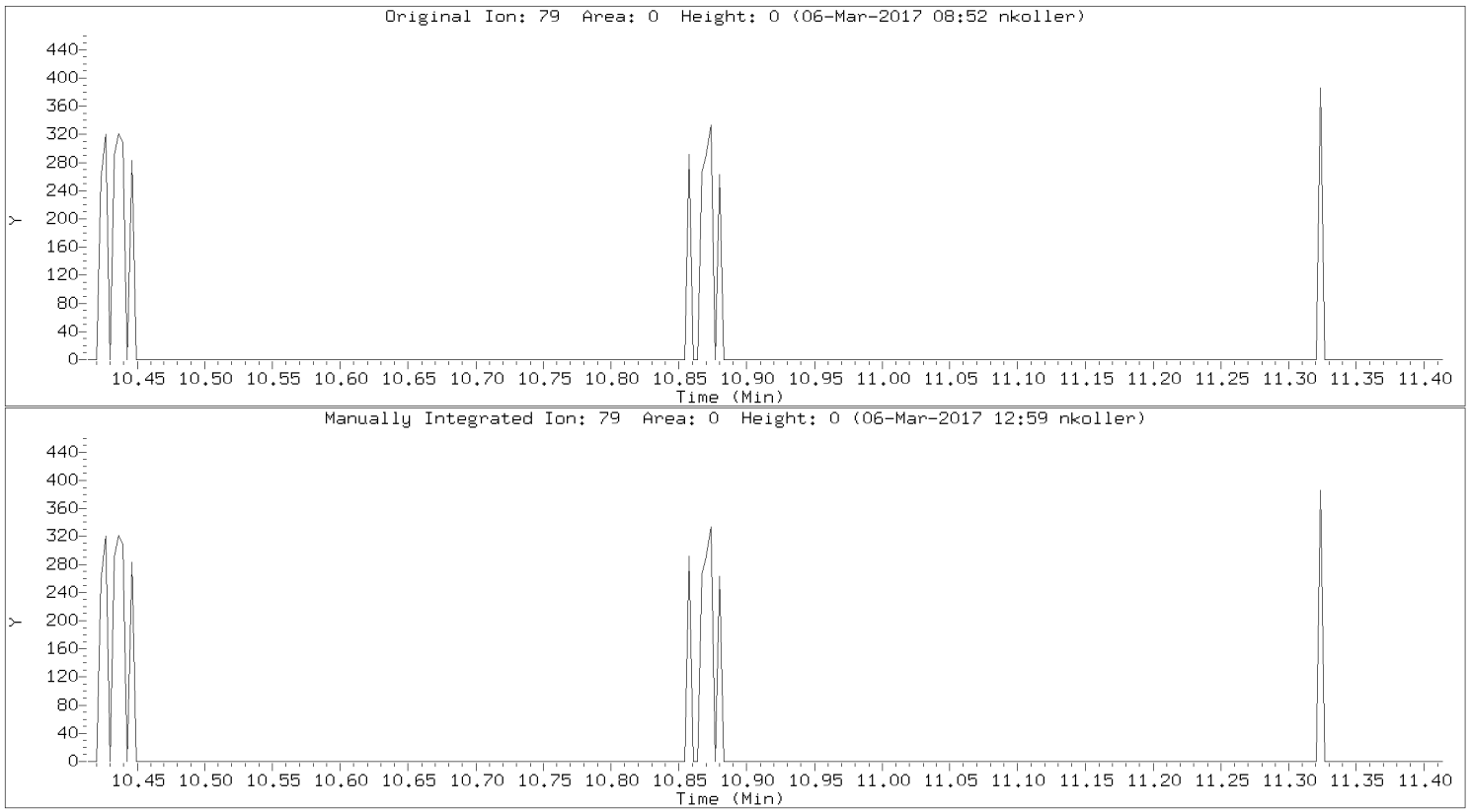






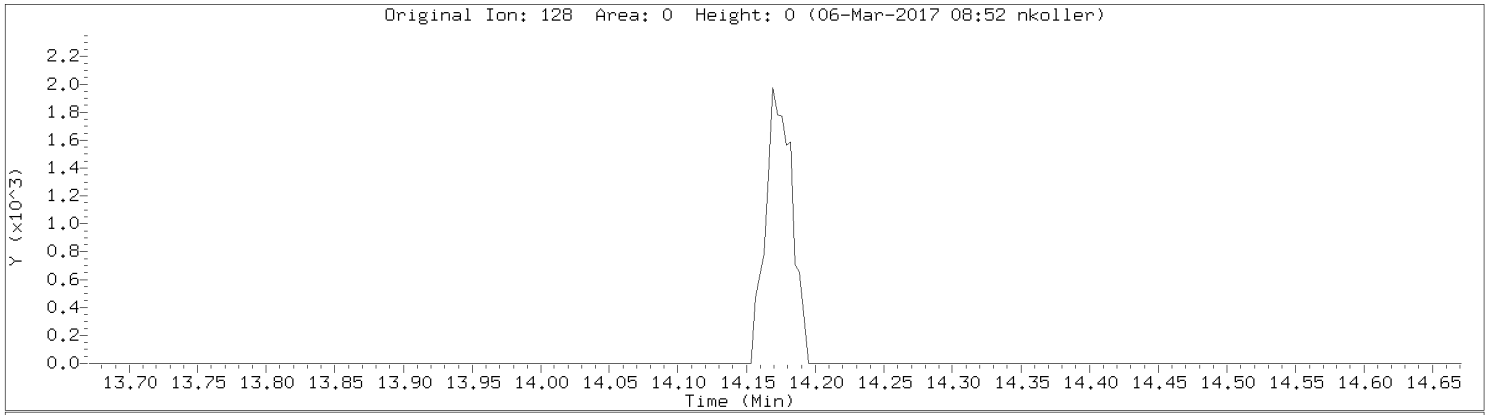


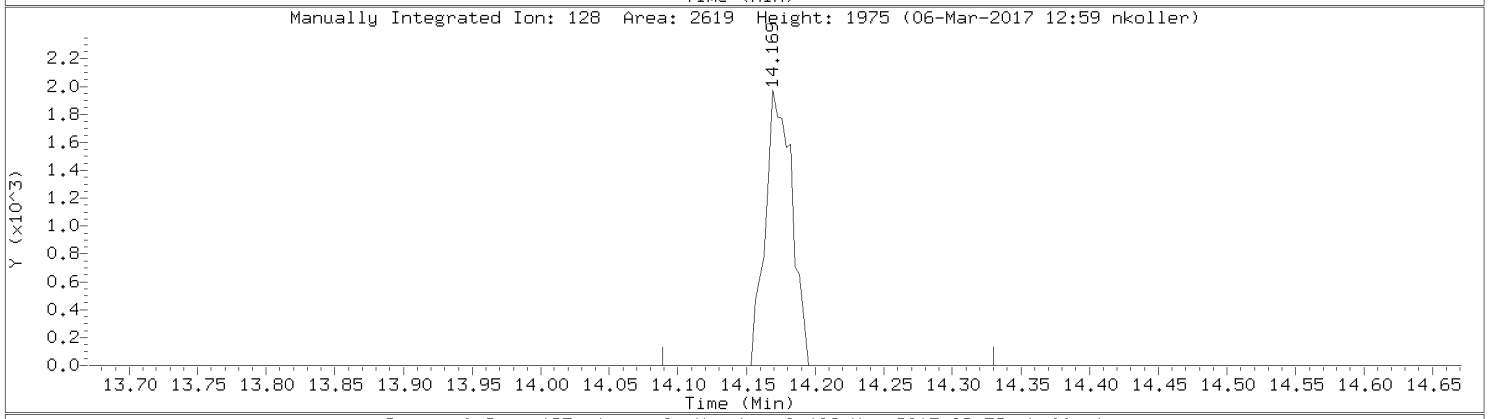
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06426.D
Injection Date: 05-MAR-2017 22:04
Instrument: 10airB.i
Lab Sample ID: 10380193007

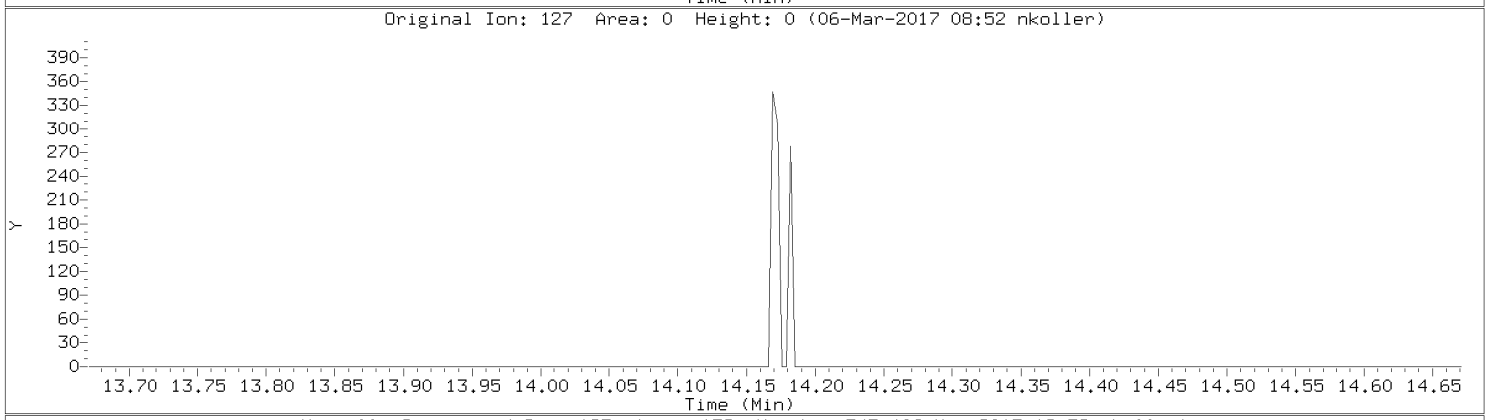


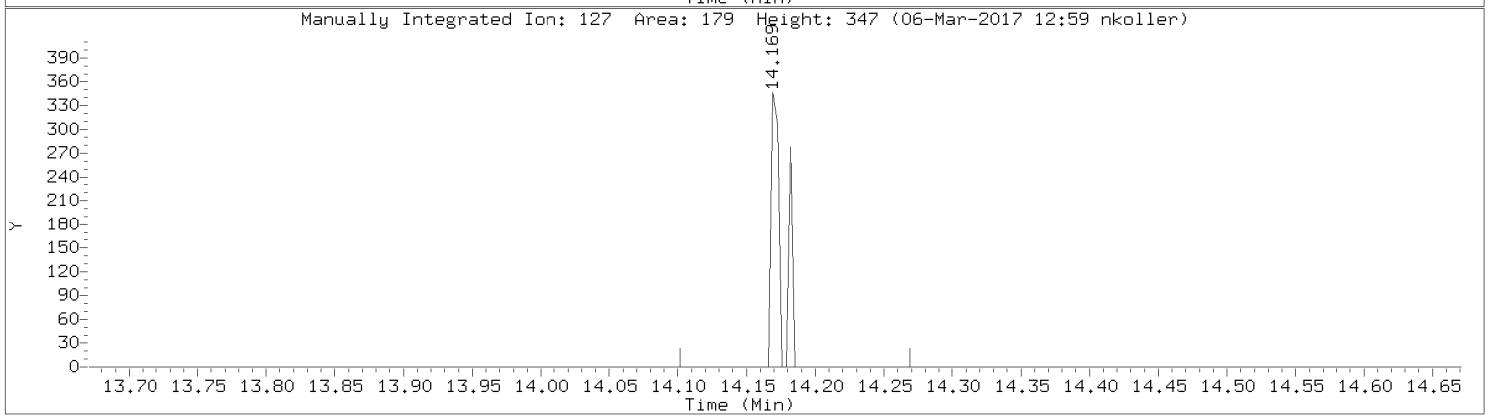
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06426.D
Injection Date: 05-MAR-2017 22:04
Instrument: 10airB.i
Lab Sample ID: 10380193007

Compound: Naphthalene
CAS Number: 91-20-3









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_20_20170223 **Lab ID: 10380193008** Collected: 02/23/17 12:04 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**98.7**	ug/m3	4.6	1.6	1.92		03/05/17 22:37	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 22:37	107-05-1	
Benzene	**1.3**	ug/m3	0.62	0.23	1.92		03/05/17 22:37	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 22:37	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 22:37	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 22:37	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 22:37	106-99-0	
2-Butanone (MEK)	**6.9**	ug/m3	5.8	0.44	1.92		03/05/17 22:37	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 22:37	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/05/17 22:37	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 22:37	108-90-7	
Chlorodifluoromethane	**94.1**	ug/m3	1.4	0.53	1.92		03/05/17 22:37	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 22:37	75-00-3	
Chloroform	**9.3**	ug/m3	0.95	0.36	1.92		03/05/17 22:37	67-66-3	
Chloromethane	**1.4**	ug/m3	0.81	0.21	1.92		03/05/17 22:37	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 22:37	76-15-3	CL
Cyclohexane	**1.8**	ug/m3	1.3	0.61	1.92		03/05/17 22:37	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 22:37	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 22:37	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 22:37	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 22:37	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 22:37	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 22:37	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.9	0.92	1.92		03/05/17 22:37	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 22:37	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 22:37	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 22:37	75-35-4	
cis-1,2-Dichloroethene	**63.5**	ug/m3	1.6	0.47	1.92		03/05/17 22:37	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/05/17 22:37	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 22:37	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 22:37	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 22:37	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 22:37	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 22:37	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 22:37	123-91-1	
Ethylbenzene	**3.7**	ug/m3	1.7	0.82	1.92		03/05/17 22:37	100-41-4	
4-Ethyltoluene	**1.6J**	ug/m3	1.9	0.36	1.92		03/05/17 22:37	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/05/17 22:37	87-68-3	
n-Hexane	**2.9**	ug/m3	1.4	0.69	1.92		03/05/17 22:37	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 22:37	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 22:37	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 22:37	79-20-9	
Methylcyclohexane	**0.97J**	ug/m3	1.6	0.46	1.92		03/05/17 22:37	108-87-2	
Methylene Chloride	**12.3**	ug/m3	6.8	1.0	1.92		03/05/17 22:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 22:37	108-10-1	
Methyl-tert-butyl ether	**3.6J**	ug/m3	7.0	0.58	1.92		03/05/17 22:37	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D
Report Date: 06-Mar-2017 13:05

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06427.D
Lab Smp Id: 10380193008
Inj Date : 05-MAR-2017 22:37
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 27
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.983	2.979	(0.532)	4368	0.65364	1.25(Q)	
3	Chlorodifluoromethane	67	2.992	2.989	(0.534)	43613	13.6317	26.2(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.024	3.021	(0.540)	10194	0.23798	0.457	
6	Chloromethane	50	3.124	3.124	(0.558)	4453	0.34002	0.653	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.542	(0.632)	403688	96.3862	185	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.542	3.578	(0.632)	93129	8.08564	15.5(Q)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.639	3.655	(0.649)	3681	0.11779	0.226	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.703	3.713	(0.661)	385123	21.2947	40.9	
19	Isopropyl Alcohol	45	3.764	3.764	(0.672)	531495	28.8157	55.3	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.925	3.934	(0.700)	22393	0.94893	1.82	
23	Methyl Acetate	43	3.947	3.951	(0.704)	5404	0.19626	0.377(Q)	
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D
Report Date: 06-Mar-2017 13:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	3.983	3.992	(0.711)	23150	1.81358	3.48	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	4.311	4.301	(0.769)	14771	0.50813	0.976(H)	
	30 Vinyl Acetate	43	4.436	4.385	(0.792)	14120	0.64058	1.23(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.475	4.481	(0.799)	337779	9.31430	9.31	
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.812)	6122	1.20068	2.31(Q)	
	34 n-Hexane	57	4.571	4.578	(0.816)	7749	0.42632	0.819(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.712	4.713	(0.841)	23026	0.98430	1.89(Q)	
	37 cis-1,2-Dichloroethene	96	4.703	4.722	(0.839)	93466	8.20366	15.8(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.815	4.838	(0.859)	23135	0.97971	1.88	
	40 Tetrahydrofuran	42	4.995	4.989	(0.892)	6223	0.49302	0.947(Q)	
	41 1,1,1-Trichloroethane	97	5.214	5.227	(0.931)	9266	0.33354	0.640	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	5.455	5.465	(0.974)	7601	0.20677	0.397	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.474	5.484	(0.977)	4863	0.26426	0.507(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.603	5.610	(1.000)	1139845	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.880	5.889	(1.049)	4212	0.20506	0.394	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.976	5.986	(1.067)	1084743	56.6400	109(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	6.426	6.430	(1.147)	1285	0.12324	0.237(Q)	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	974634	9.55343	9.55	
	60 1,1,2-Trichloroethane	97	7.137	7.143	(1.274)	15715	1.02795	1.97	
	61 Toluene	91	7.146	7.153	(1.275)	125948	2.73583	5.25	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.574	7.584	(0.877)	13588	0.51471	0.988(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.982	7.986	(0.924)	687348	25.6471	49.2	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	771806	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.934	(1.034)	24812	0.43709	0.839	
	70 m&p-Xylene	91	9.076	9.082	(1.051)	82186	1.84459	3.54	
	71 n-Nonane	43	9.471	9.468	(1.096)	9119	0.39681	0.762	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.574	9.581	(1.108)	20085	0.44310	0.851	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	10.908	10.912	(1.263)	4782	0.16968	0.326(M)	

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D
Report Date: 06-Mar-2017 13:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	10.995	11.002	(1.273)	6098	0.13030	0.250	
80	n-Decane	57	11.378	11.378	(2.031)	9865	0.56775	1.09(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.510	11.513	(1.332)	16526	0.36045	0.692	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	444730	10.4603	10.5	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	11.985	11.989	(1.387)	36255	0.58762	1.13	
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	5797	0.12807	0.246	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.169	(1.641)	10448	0.66449	1.28	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D
Report Date: 06-Mar-2017 13:05

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06427.D
Lab Smp Id: 10380193008
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

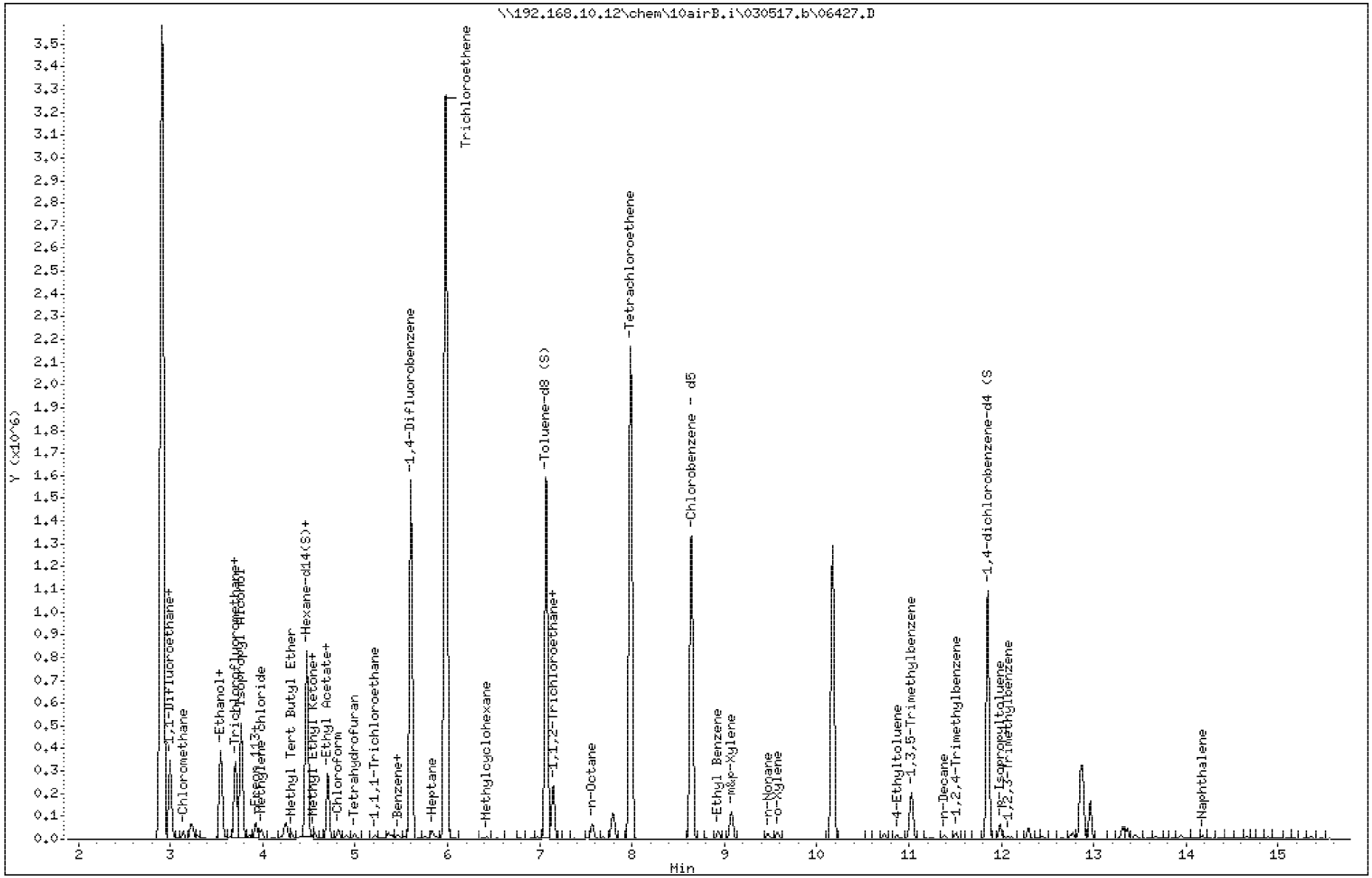
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1139845	-19.40
67 Chlorobenzene - d	951026	570616	1331436	771806	-18.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.12
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D
Date : 05-MAR-2017 22:37
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

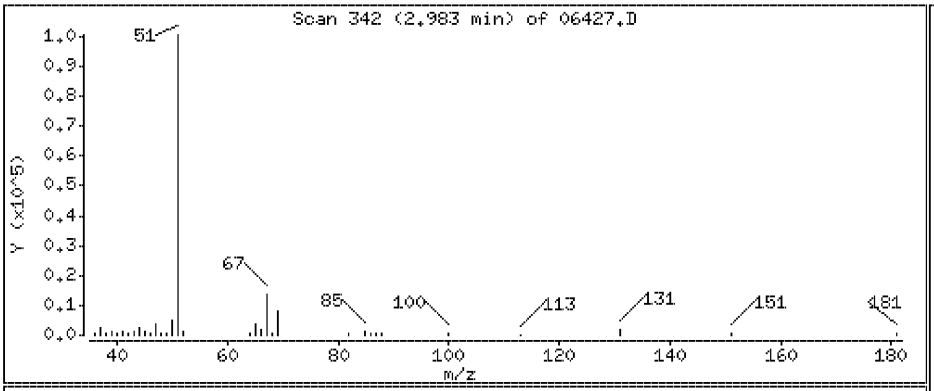
Operator: NCK

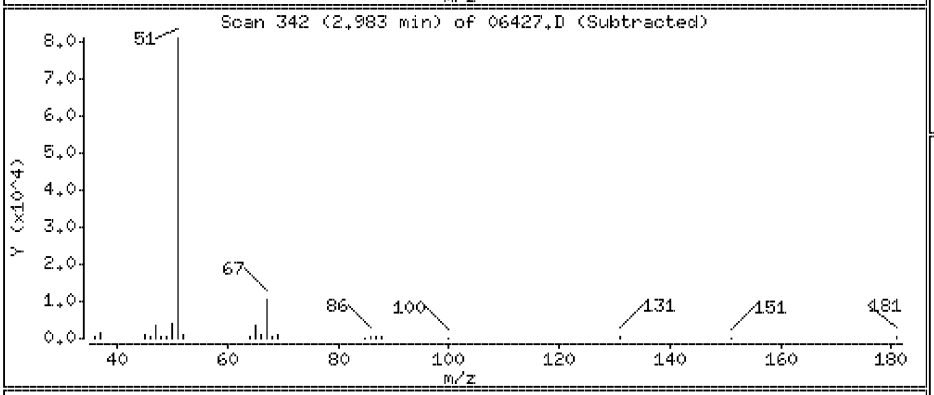
Column phase: J&W DB-5

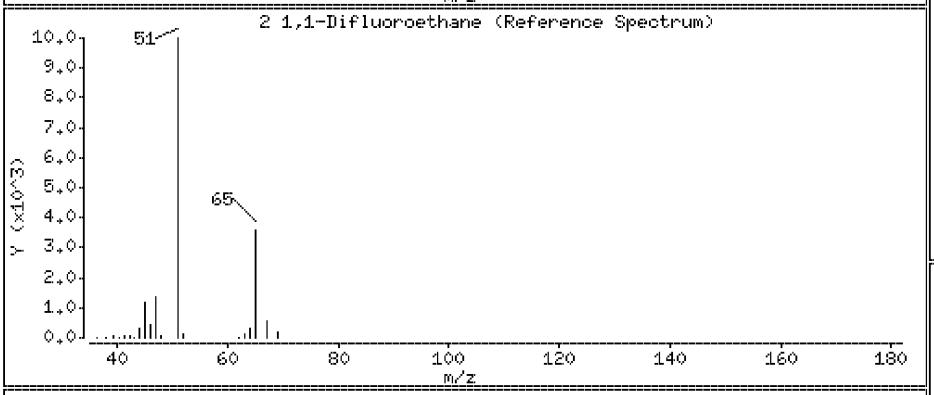
Column diameter: 0.32

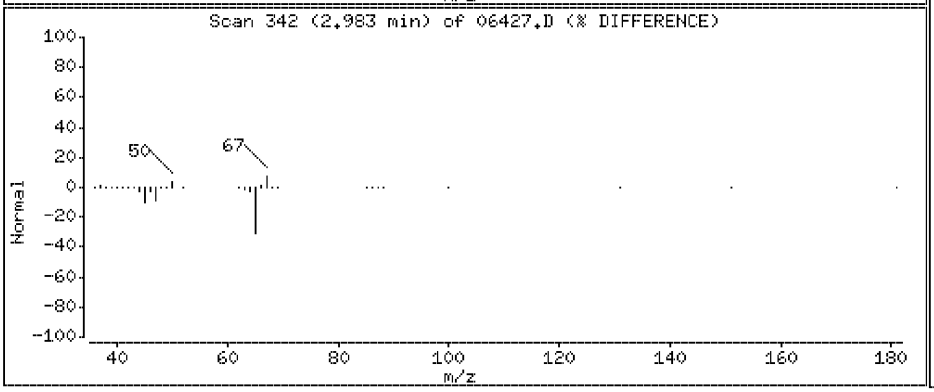
2 1,1-Difluoroethane

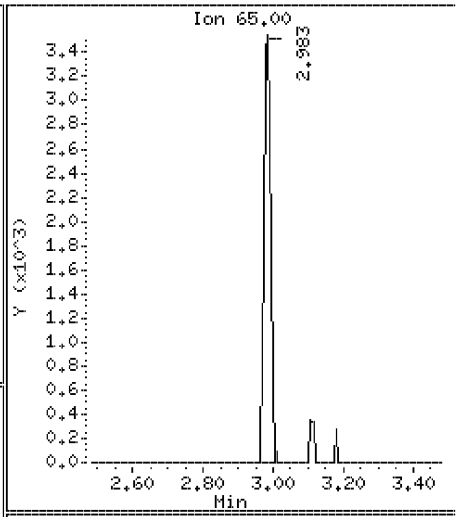
Concentration: 1.25 ppbv

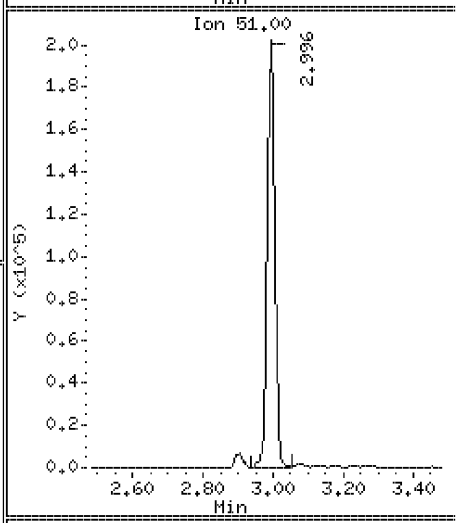


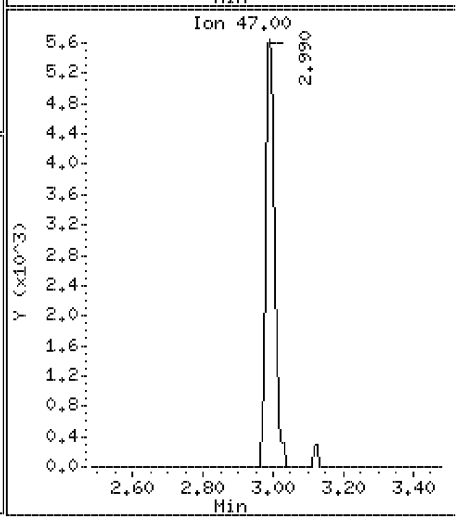












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

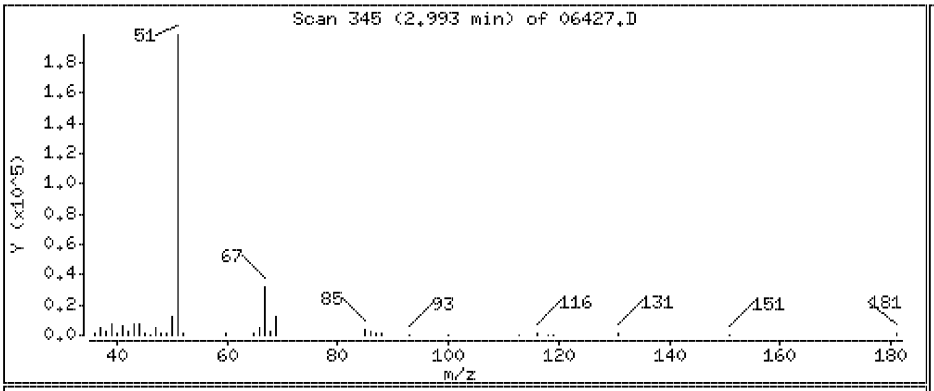
Operator: NCK

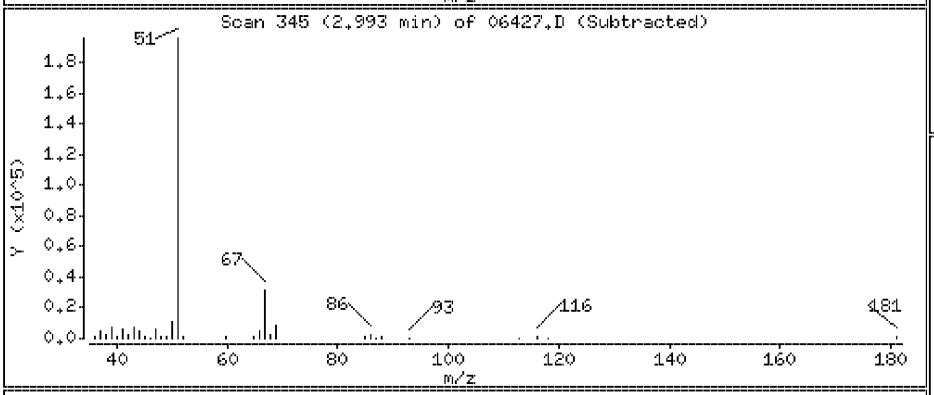
Column phase: J&W DB-5

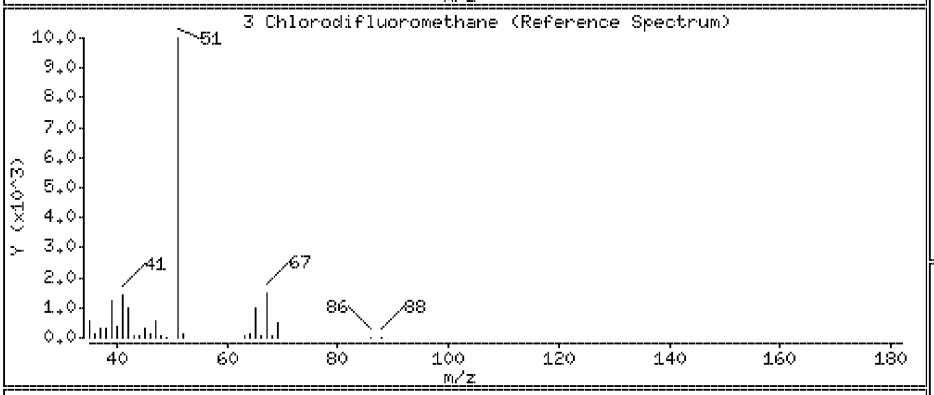
Column diameter: 0.32

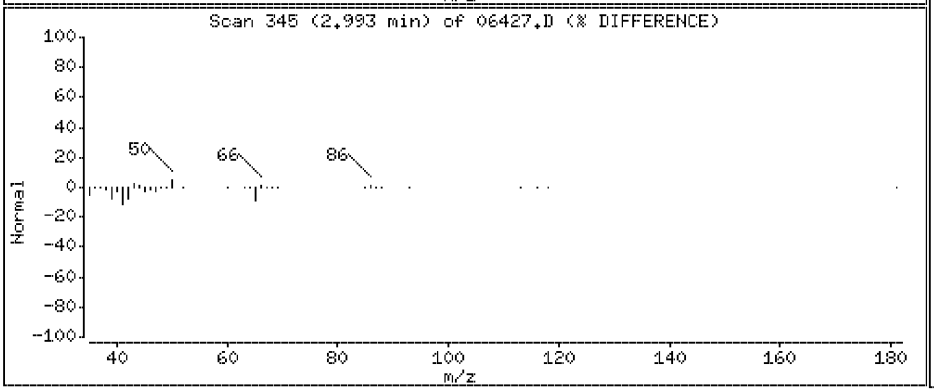
3 Chlorodifluoromethane

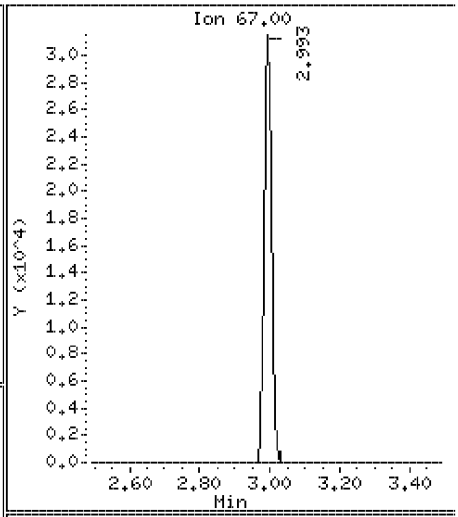
Concentration: 26.2 ppbv

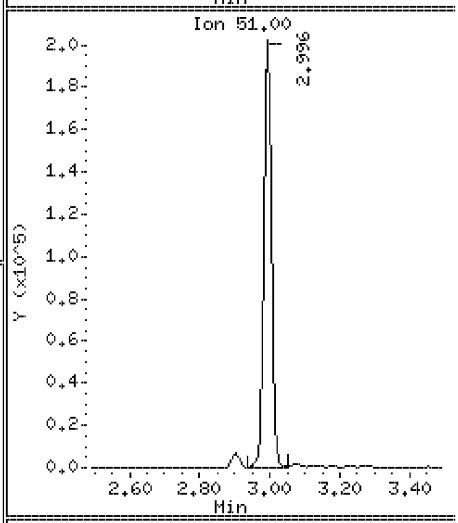


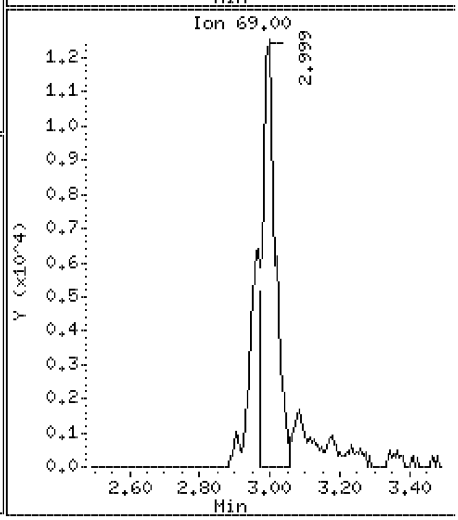












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

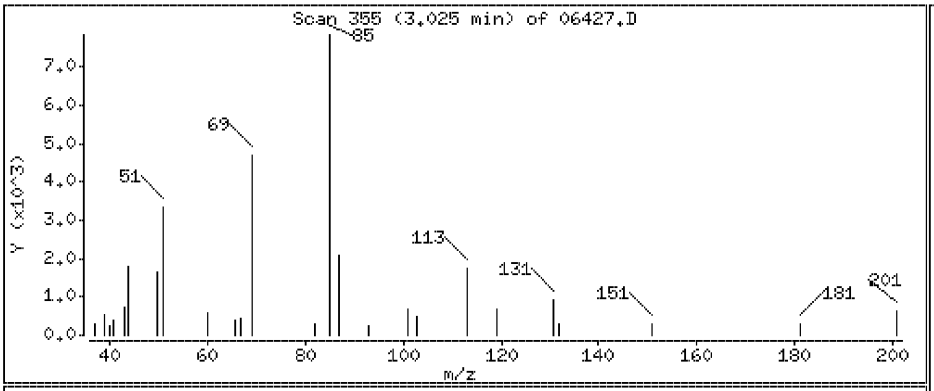
Operator: NCK

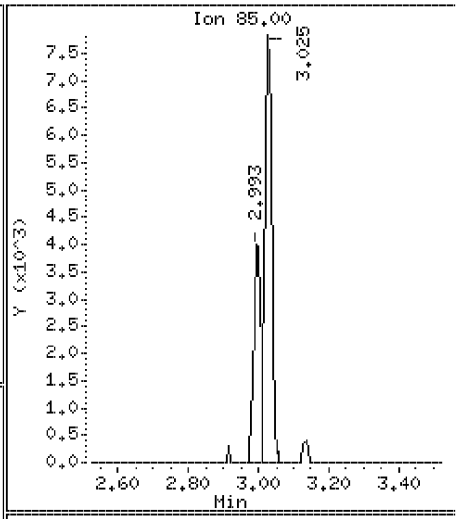
Column phase: J&W DB-5

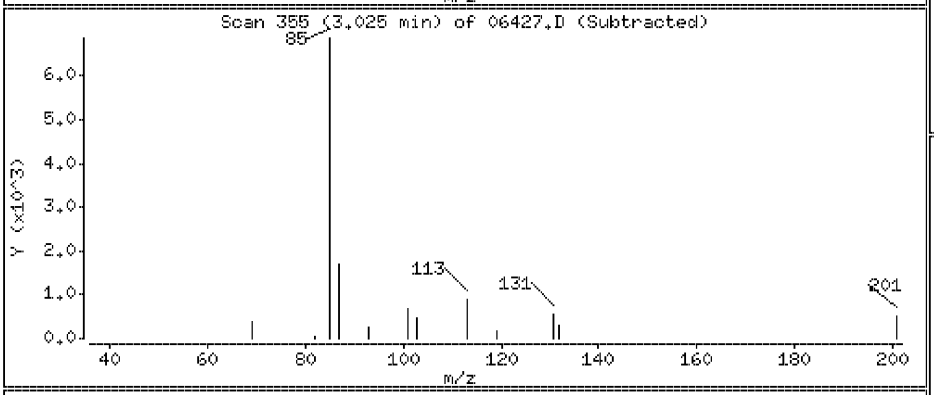
Column diameter: 0.32

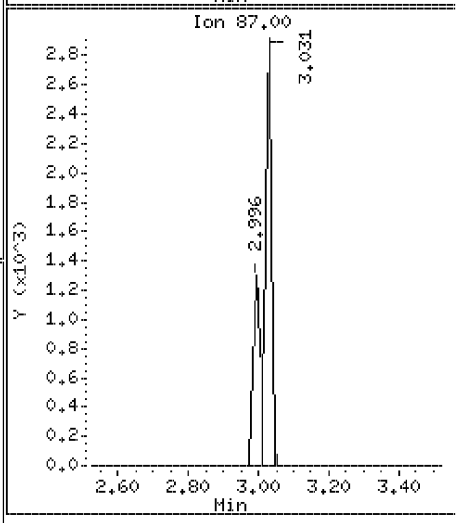
5 Dichlorodifluoromethane

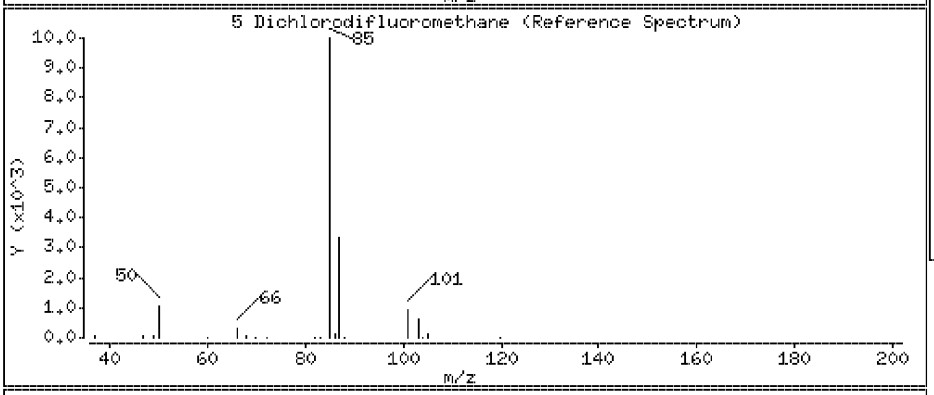
Concentration: 0.457 ppbv

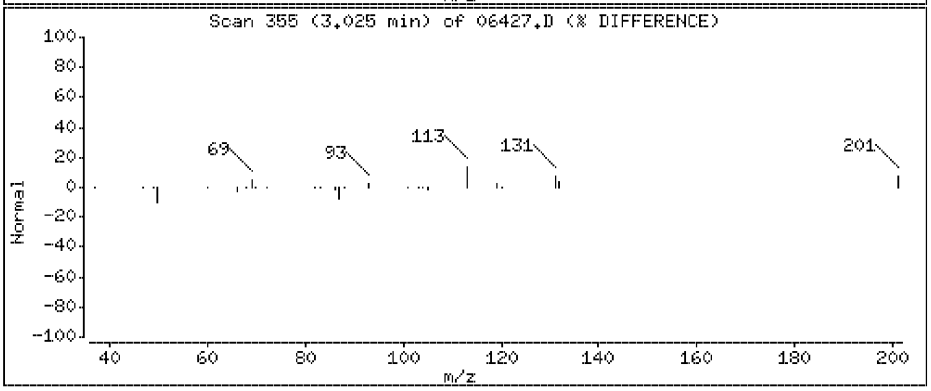












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

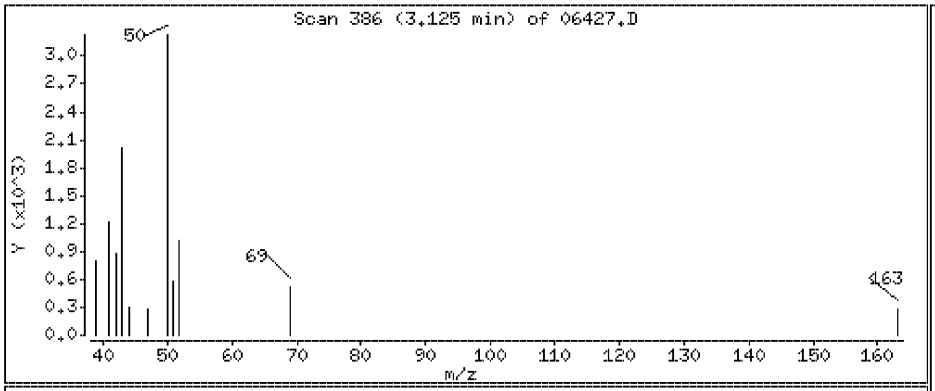
Operator: NCK

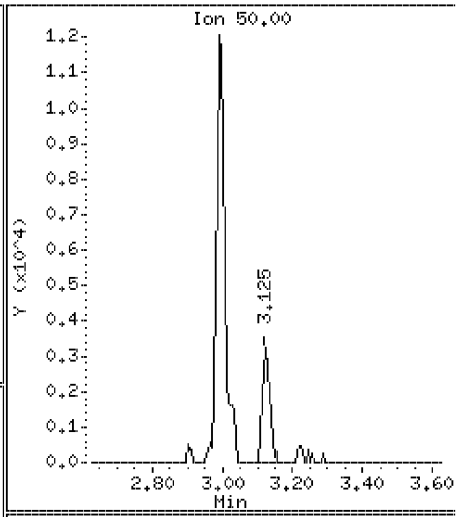
Column phase: J&W DB-5

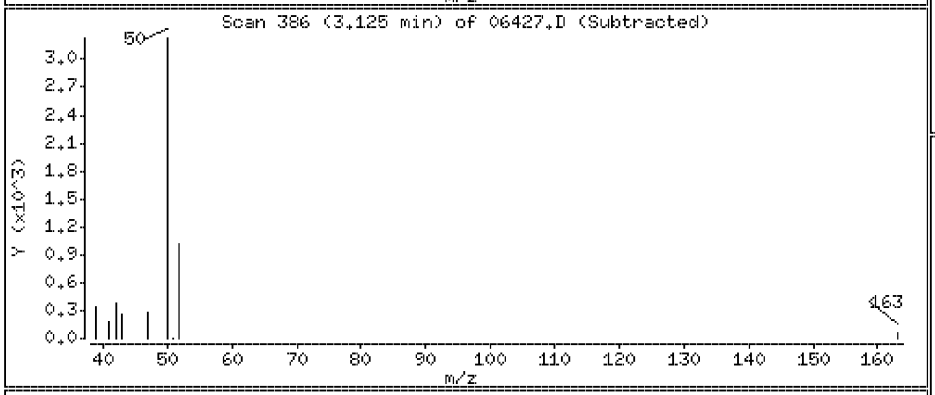
Column diameter: 0.32

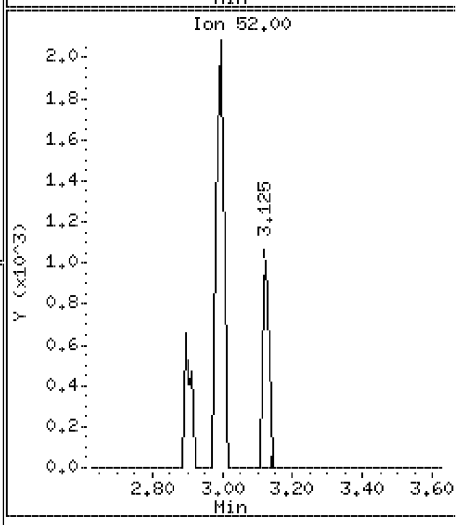
6 Chloromethane

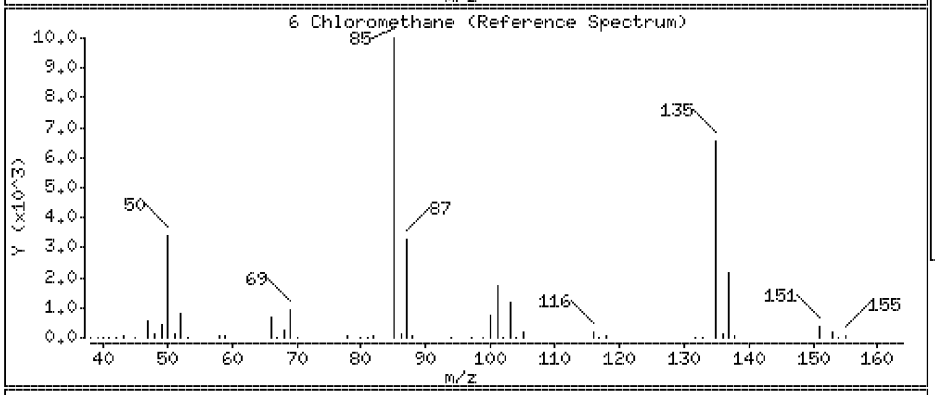
Concentration: 0.653 ppbv

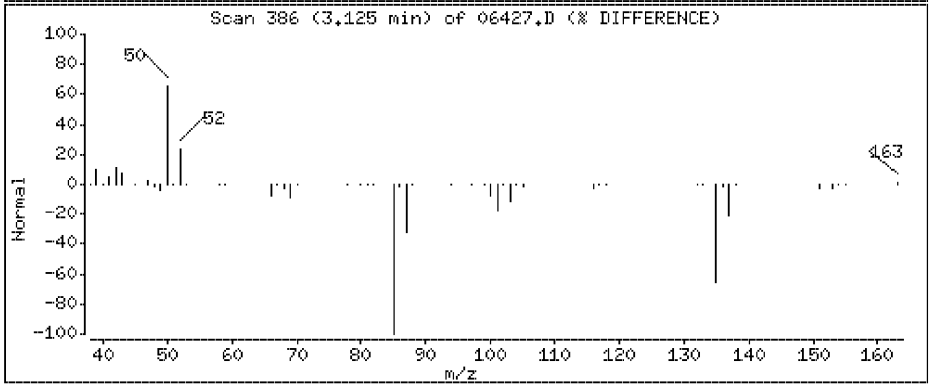












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

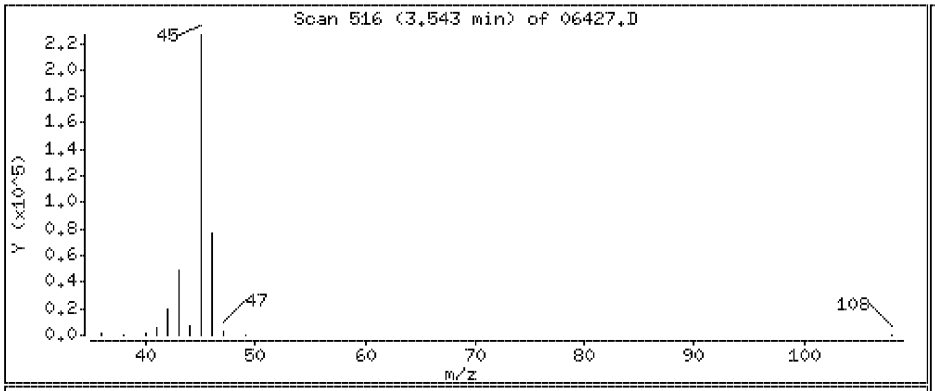
Operator: NCK

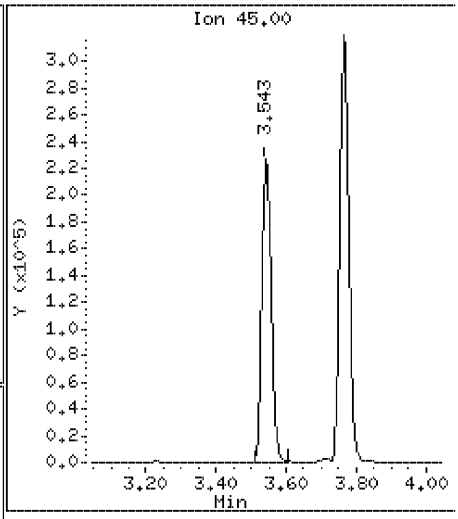
Column phase: J&W DB-5

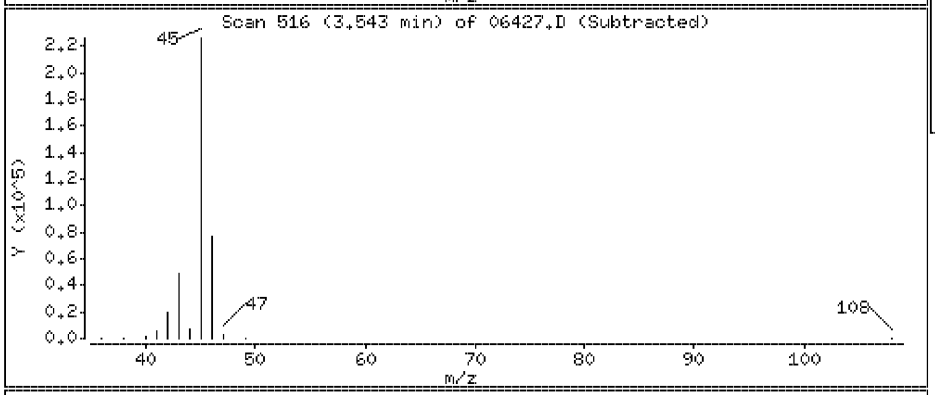
Column diameter: 0.32

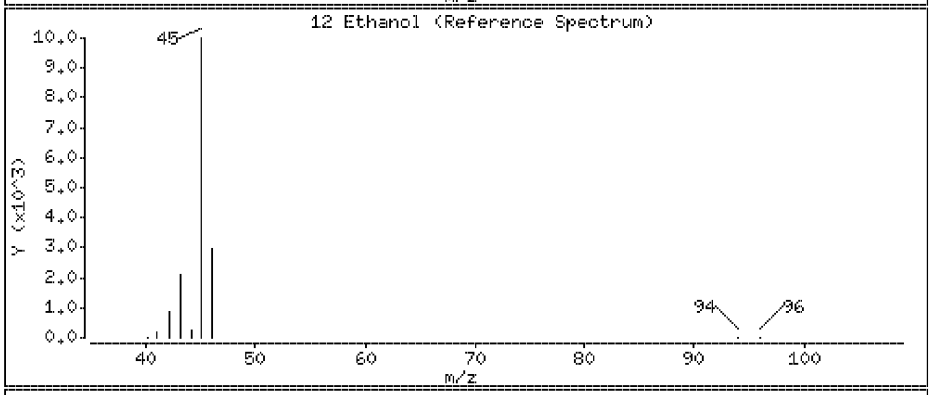
12 Ethanol

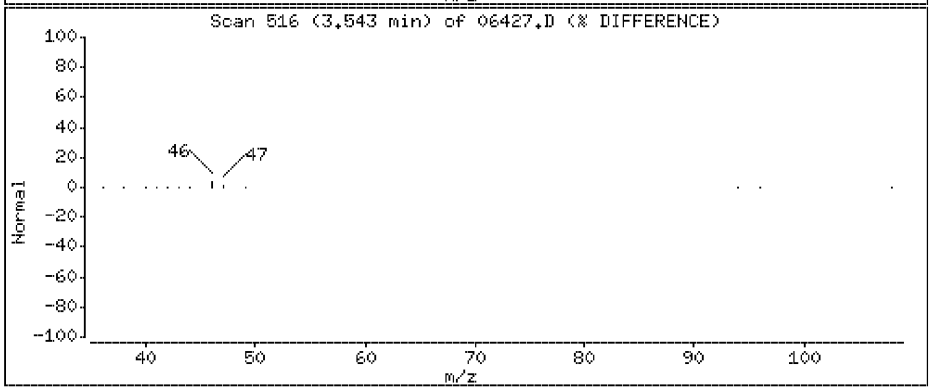
Concentration: 185 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

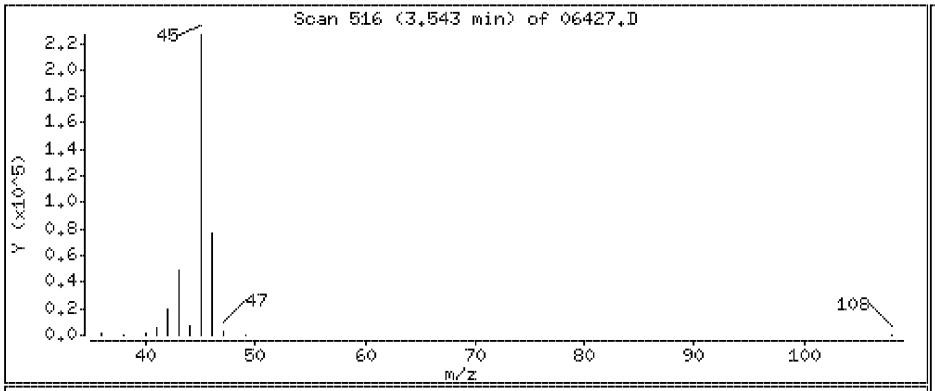
Operator: NCK

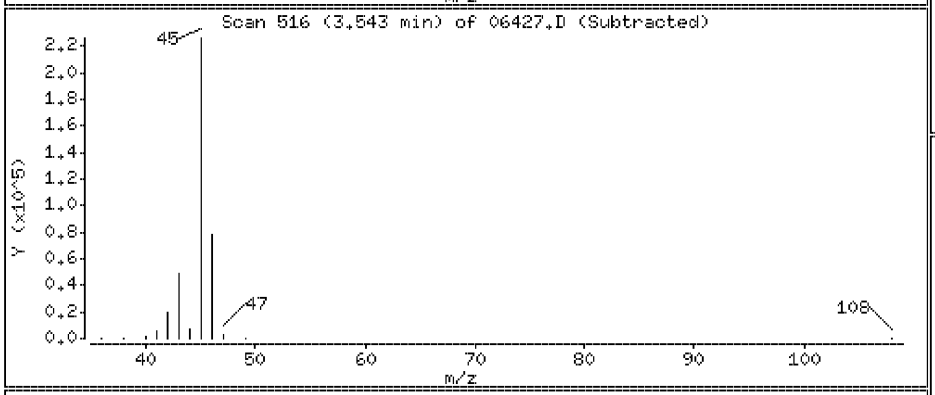
Column phase: J&W DB-5

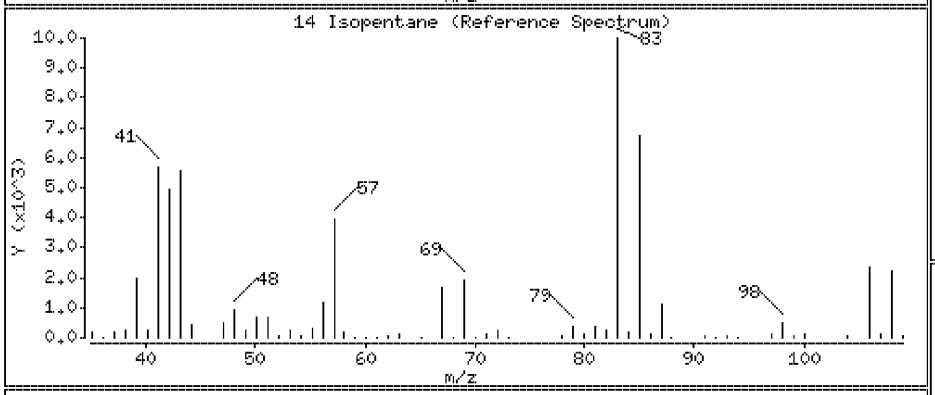
Column diameter: 0.32

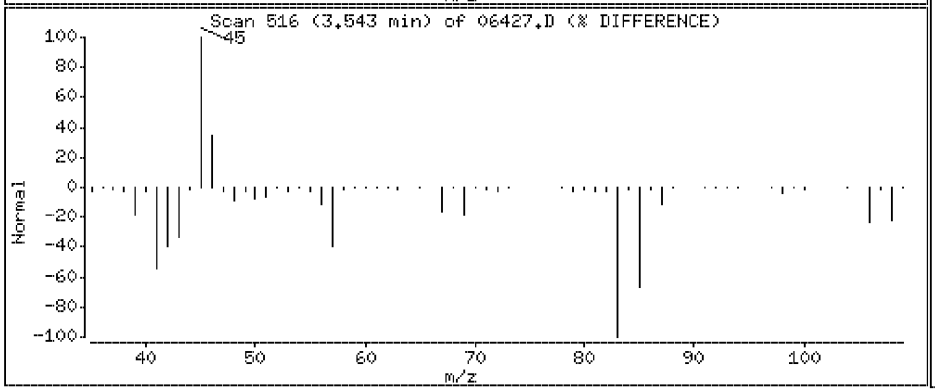
14 Isopentane

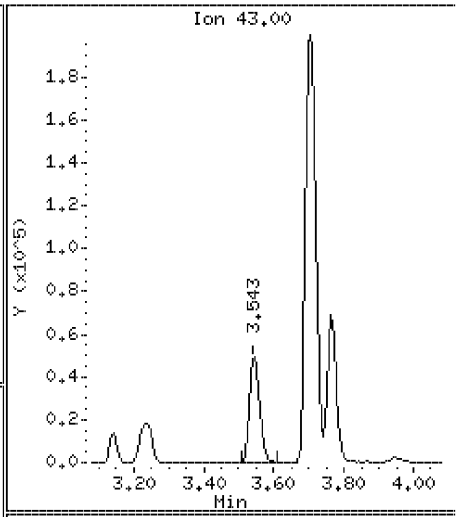
Concentration: 15.5 ppbv

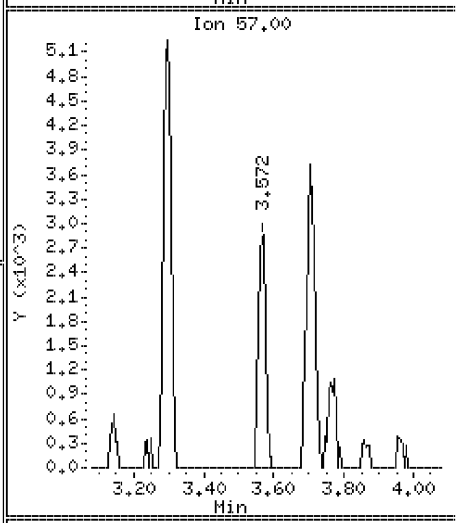


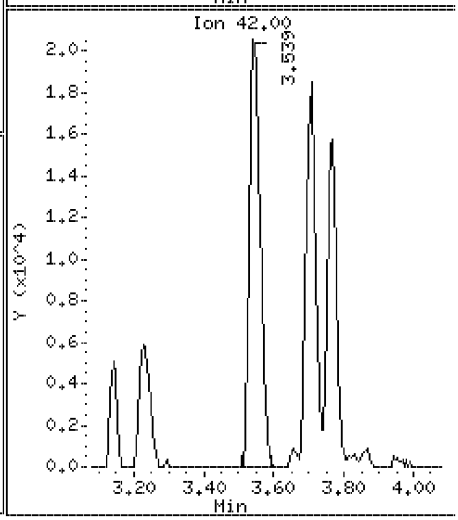












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

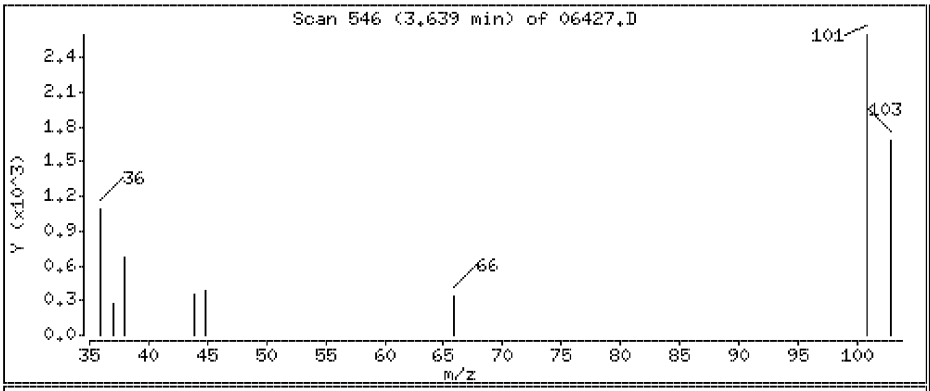
Operator: NCK

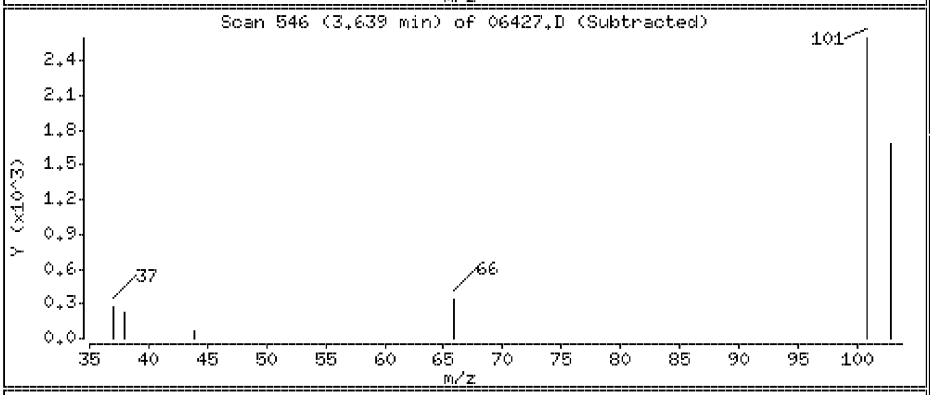
Column phase: J&W DB-5

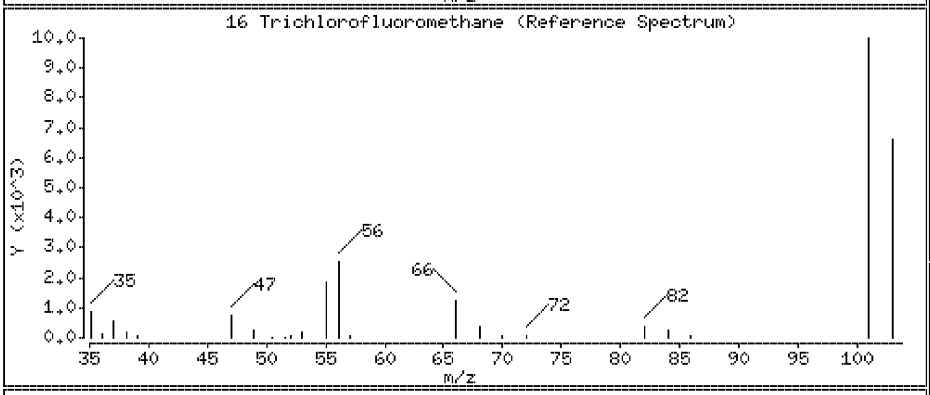
Column diameter: 0.32

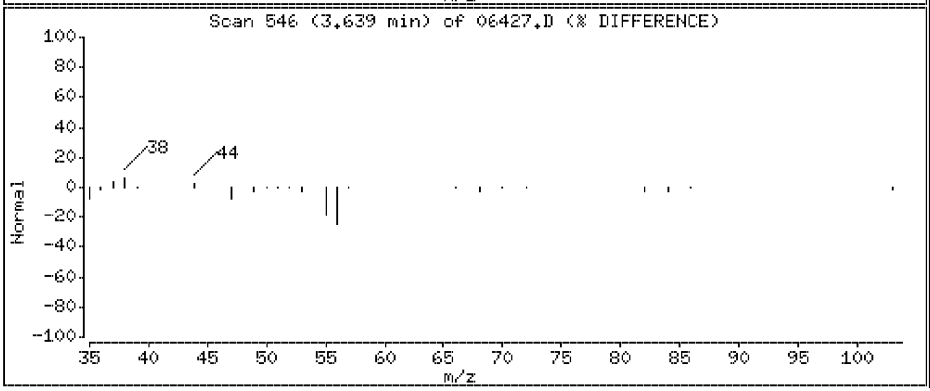
16 Trichlorofluoromethane

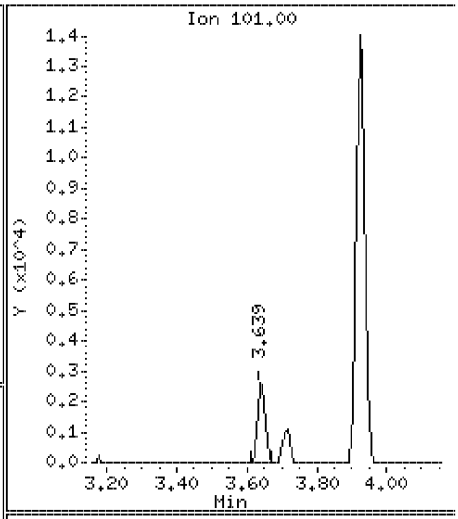
Concentration: 0.226 ppbv

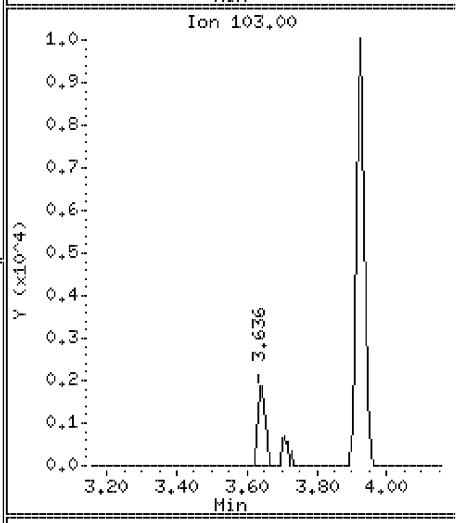


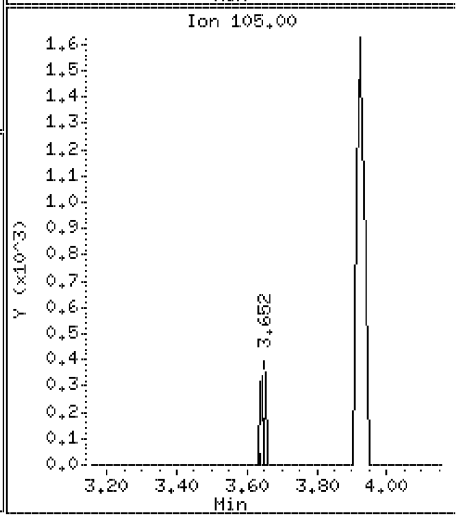












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

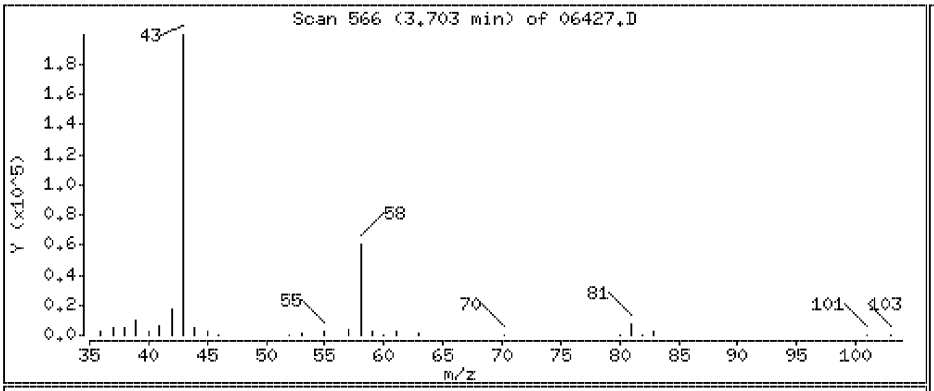
Operator: NCK

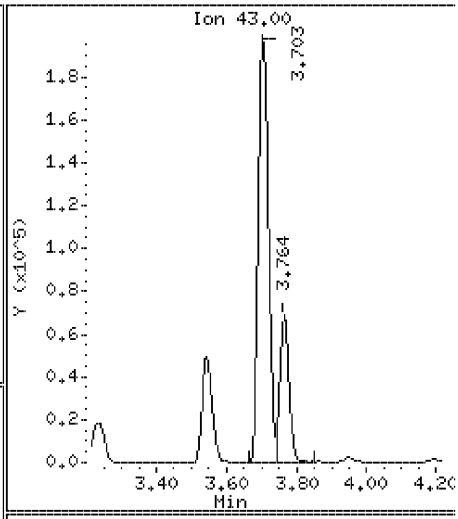
Column phase: J&W DB-5

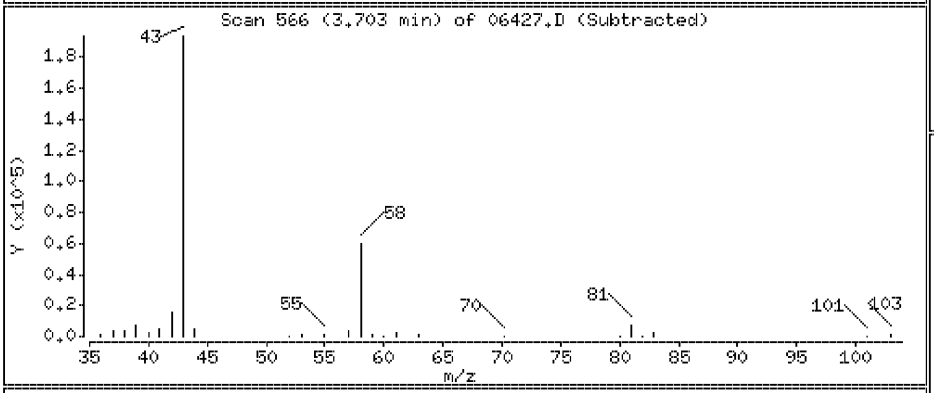
Column diameter: 0.32

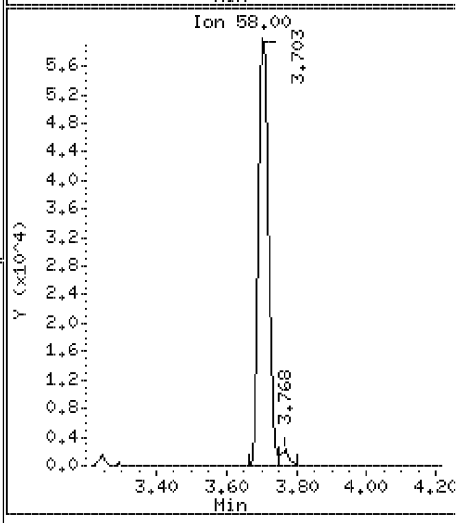
18 Acetone

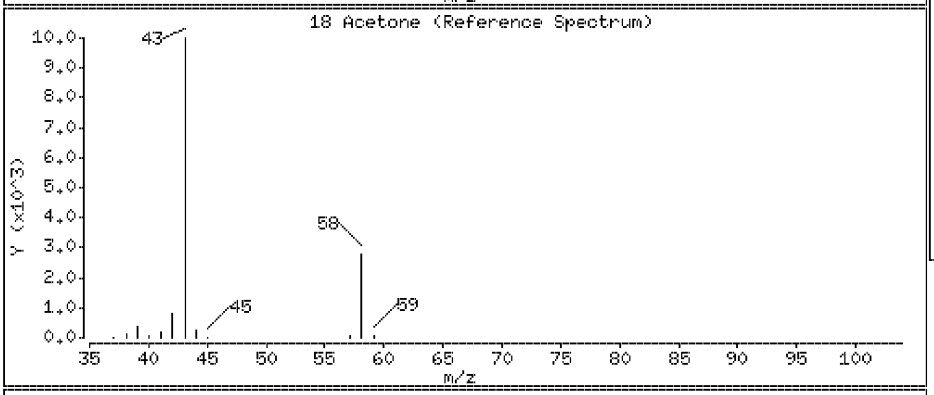
Concentration: 40.9 ppbv

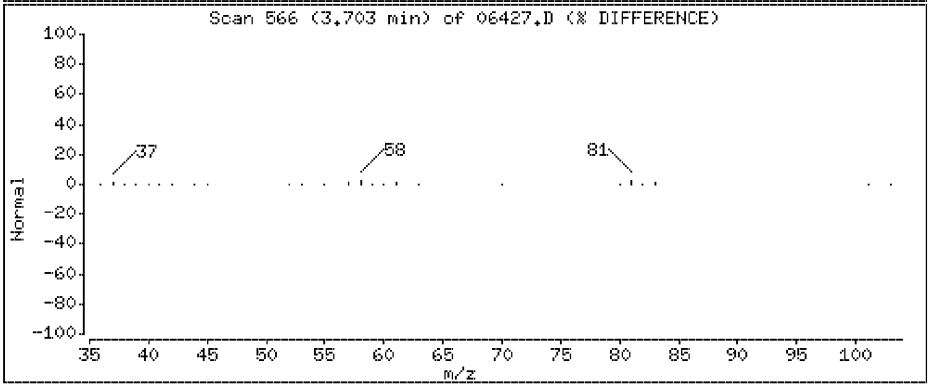












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

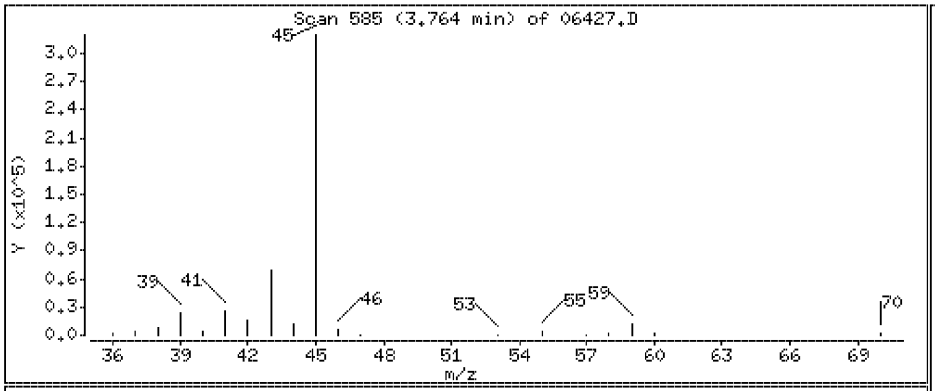
Operator: NCK

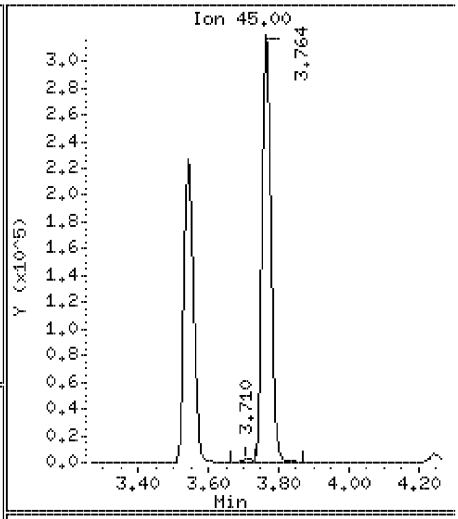
Column phase: J&W DB-5

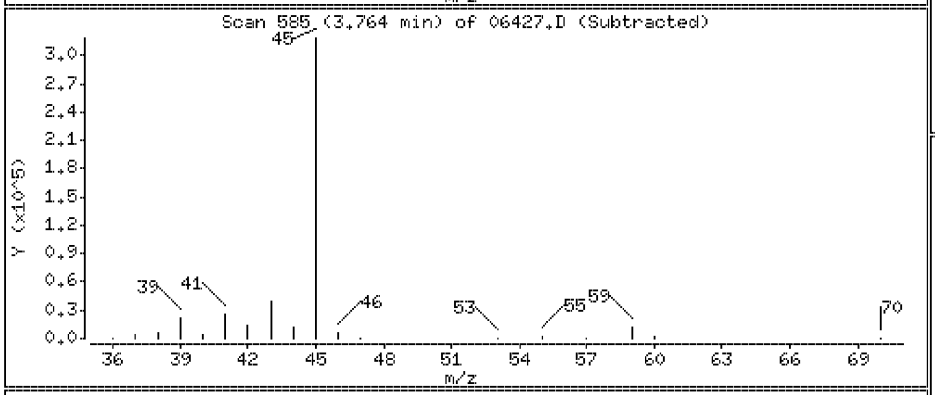
Column diameter: 0.32

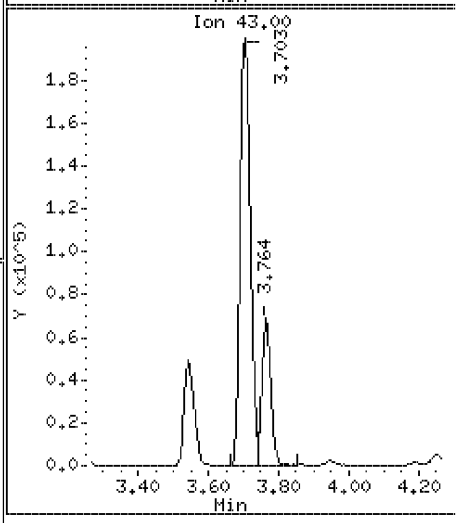
19 Isopropyl Alcohol

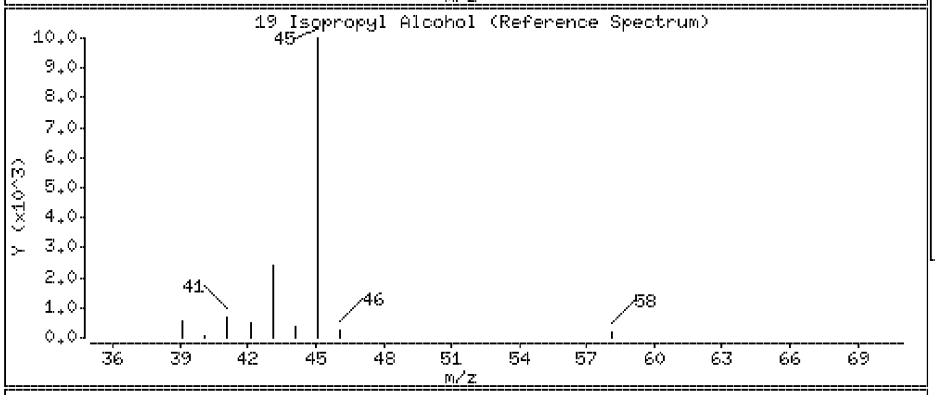
Concentration: 55.3 ppbv

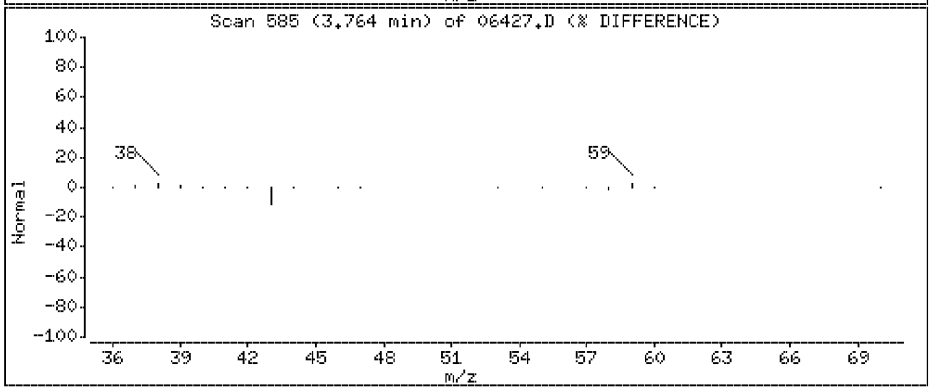












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

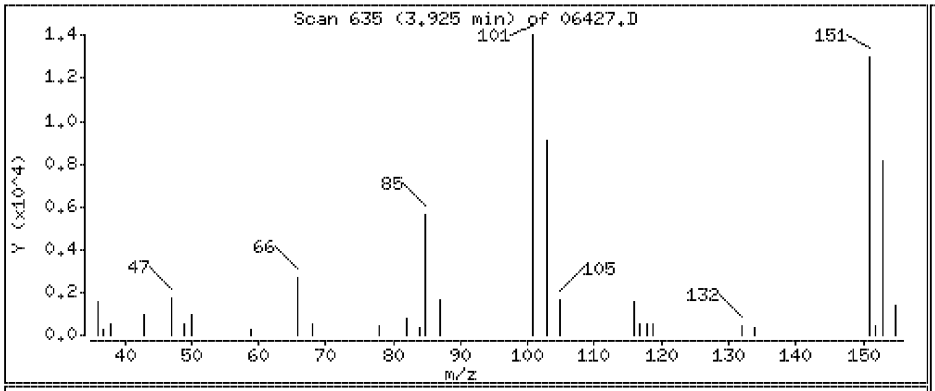
Operator: NCK

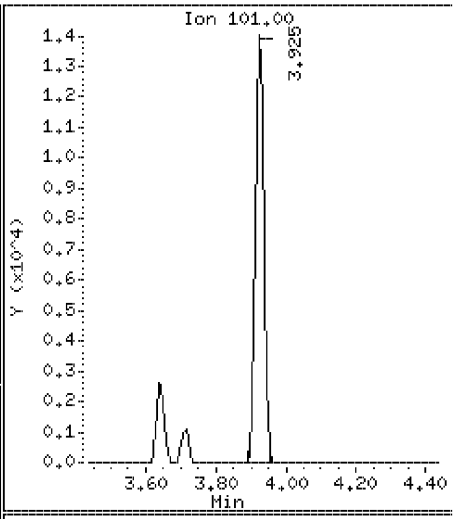
Column phase: J&W DB-5

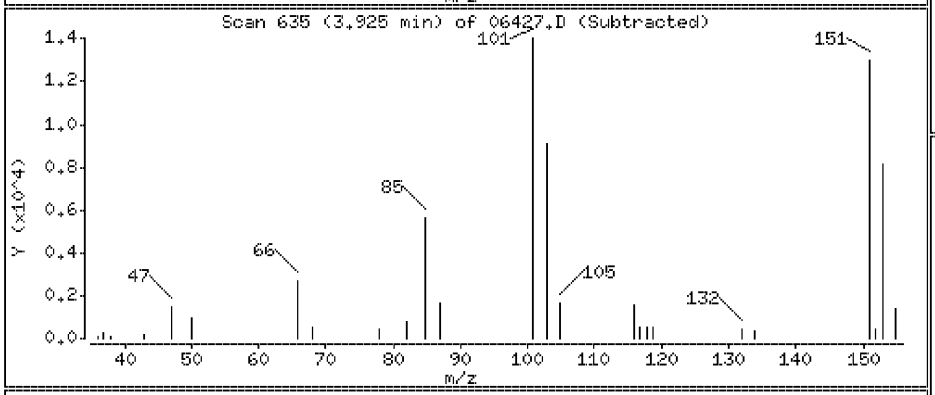
Column diameter: 0.32

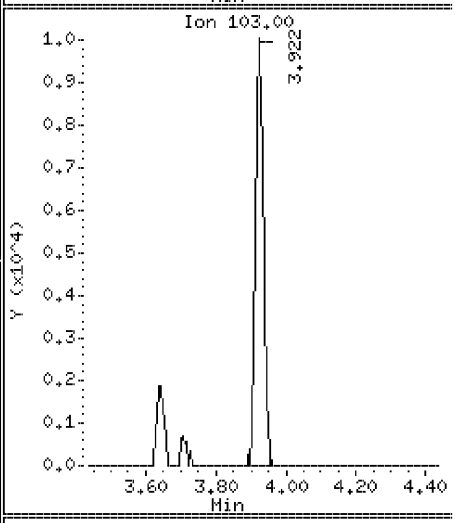
22 Freon 113

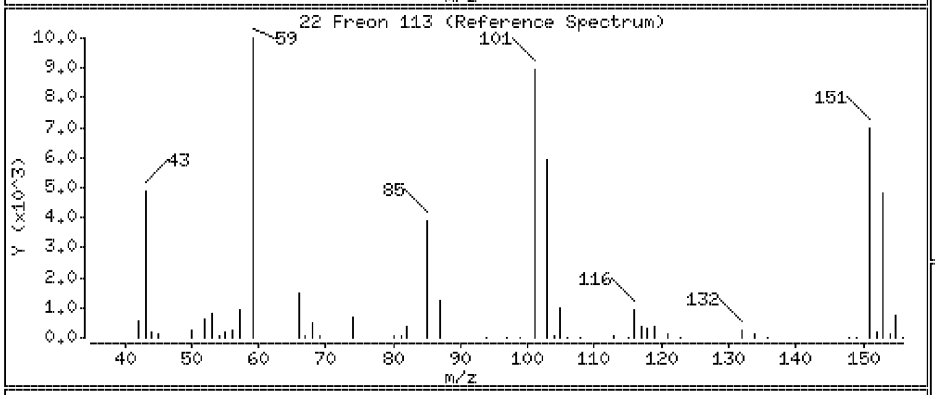
Concentration: 1.82 ppbv

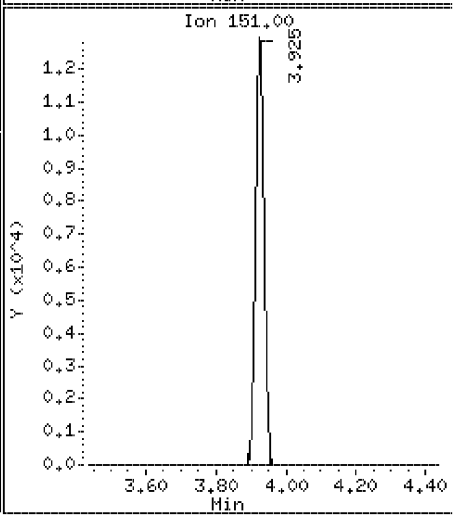


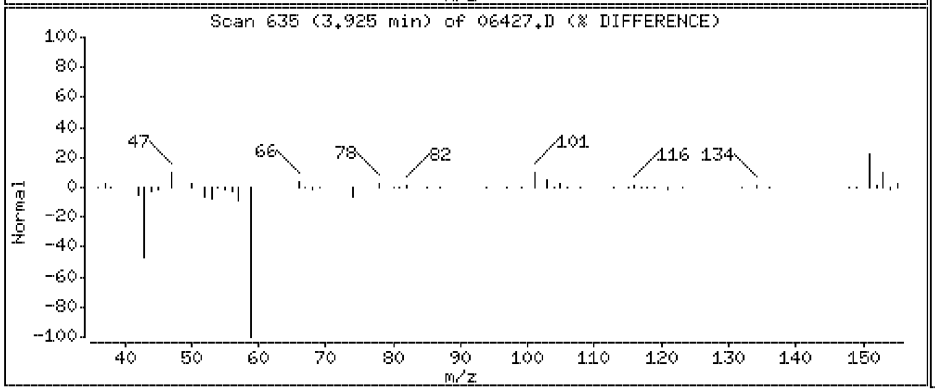












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

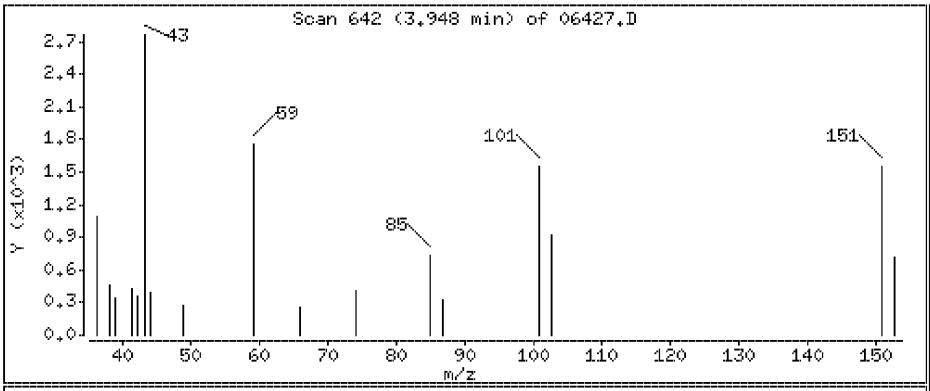
Operator: NCK

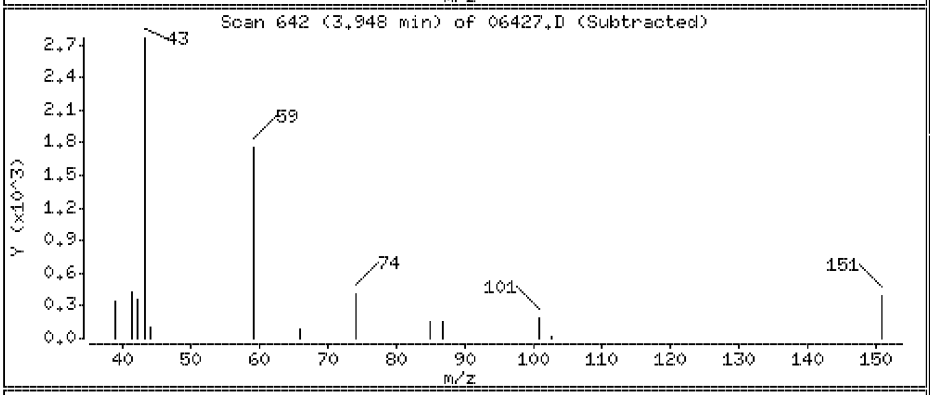
Column phase: J&W DB-5

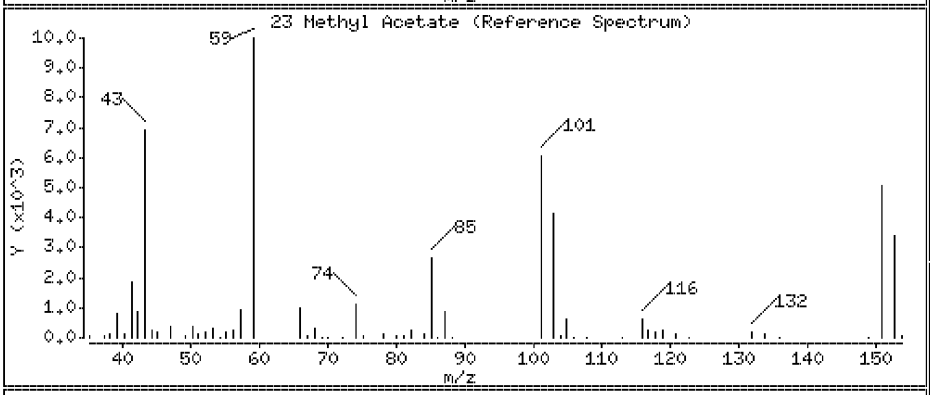
Column diameter: 0.32

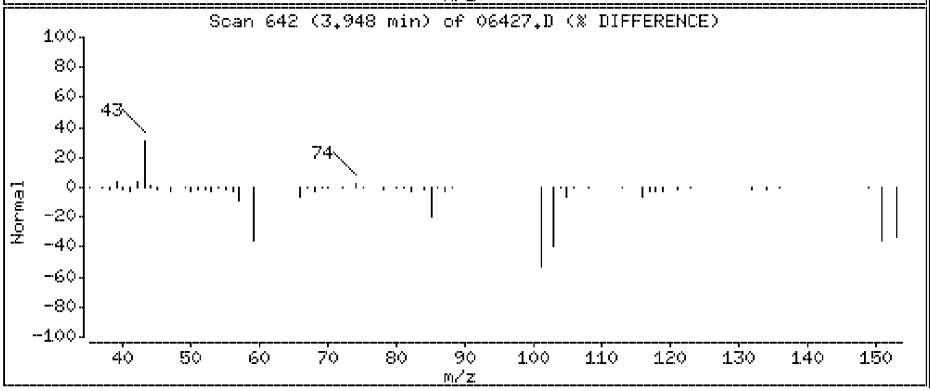
23 Methyl Acetate

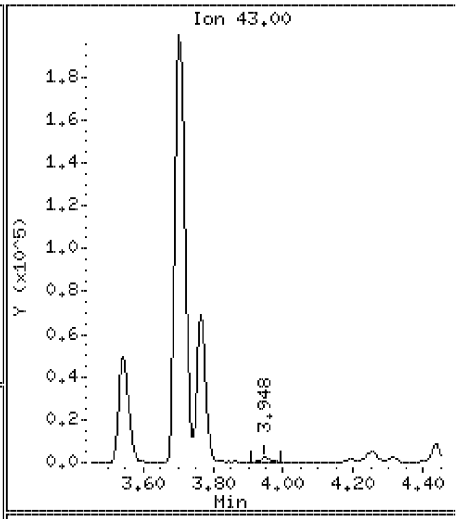
Concentration: 0.377 ppbv

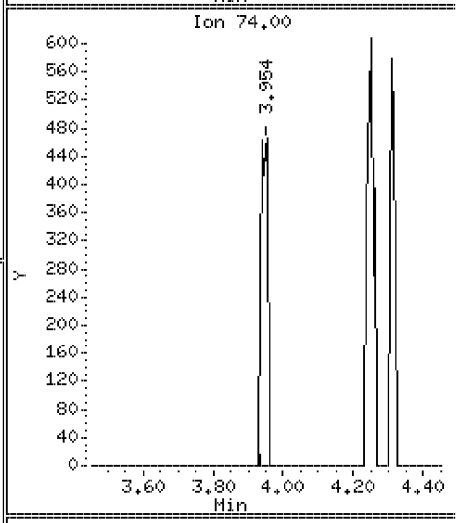


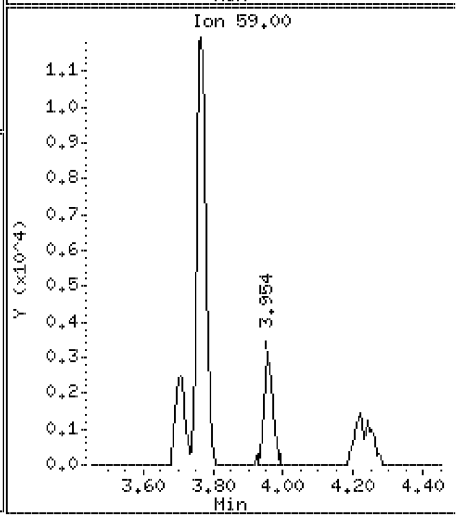












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

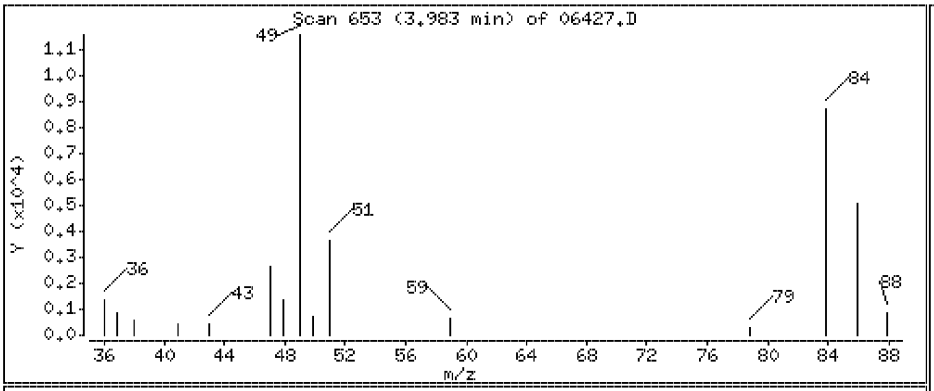
Operator: NCK

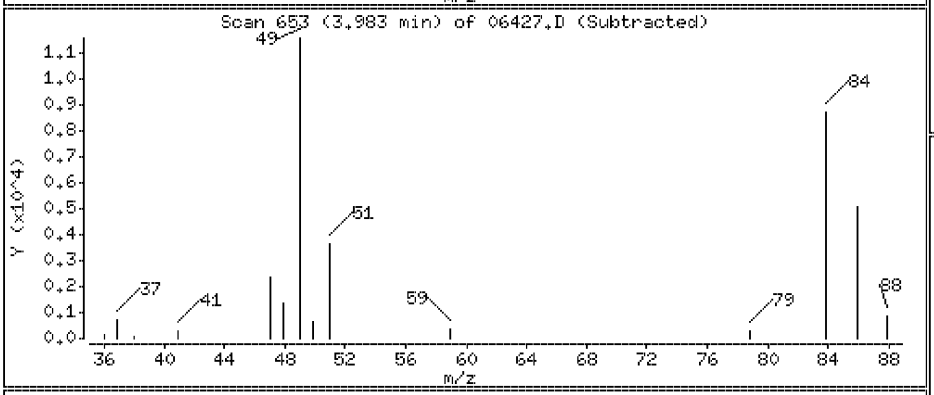
Column phase: J&W DB-5

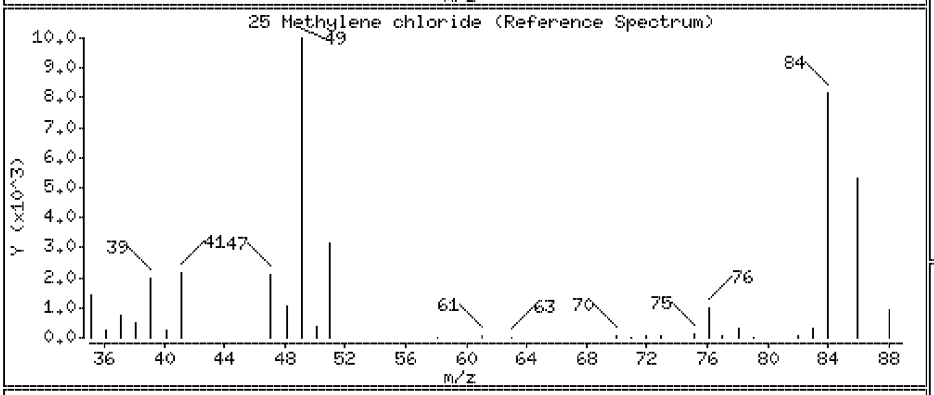
Column diameter: 0.32

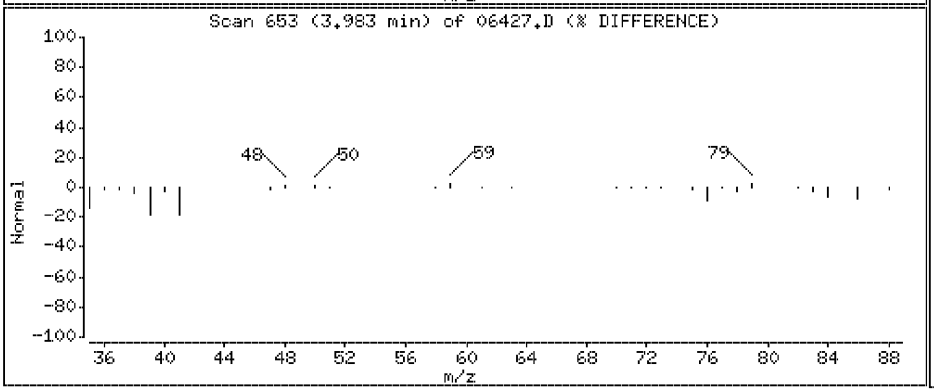
25 Methylene chloride

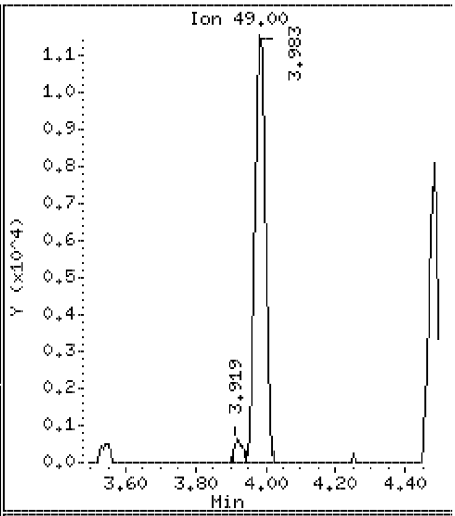
Concentration: 3.48 ppbv

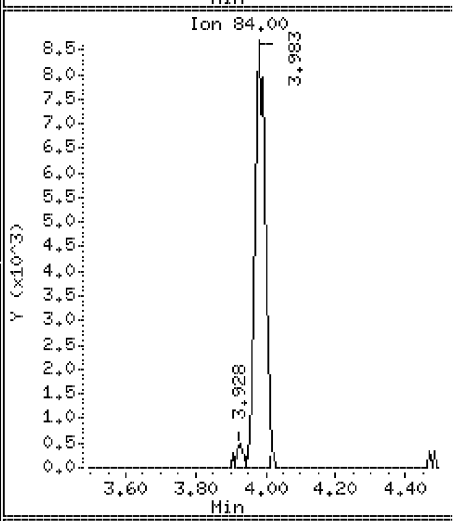


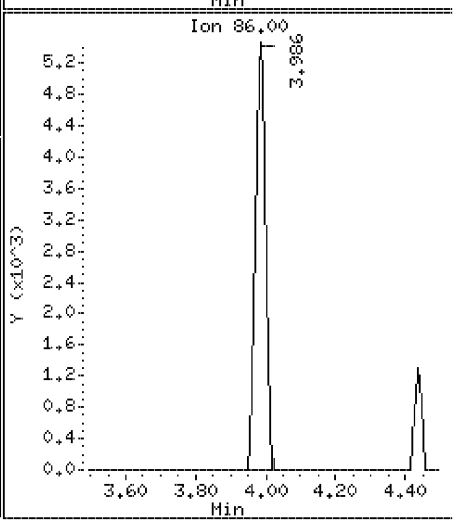












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

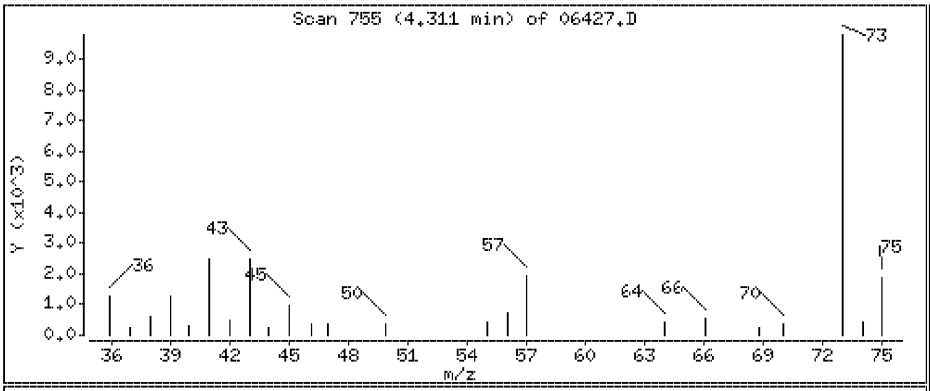
Operator: NCK

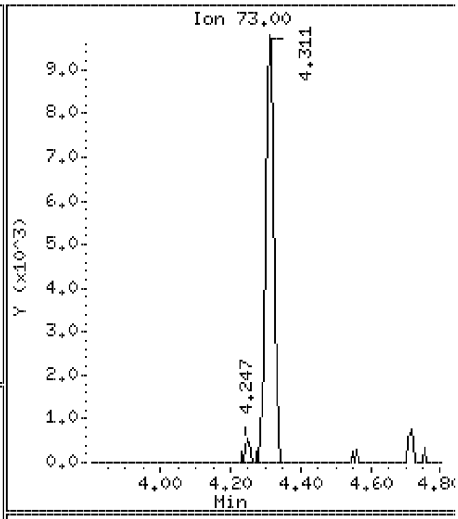
Column phase: J&W DB-5

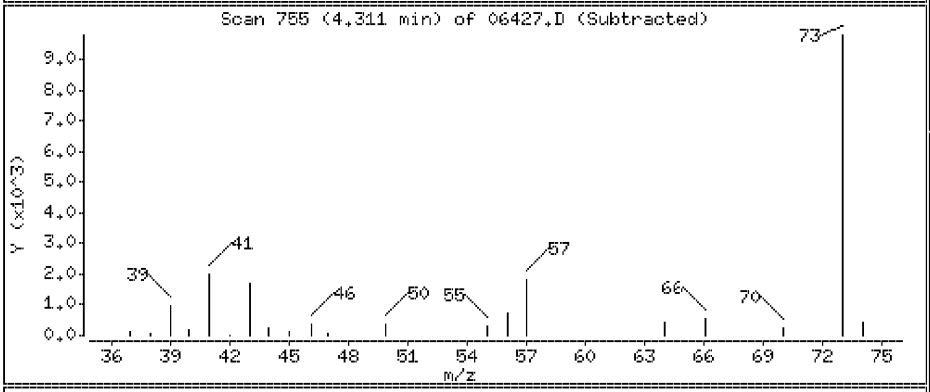
Column diameter: 0.32

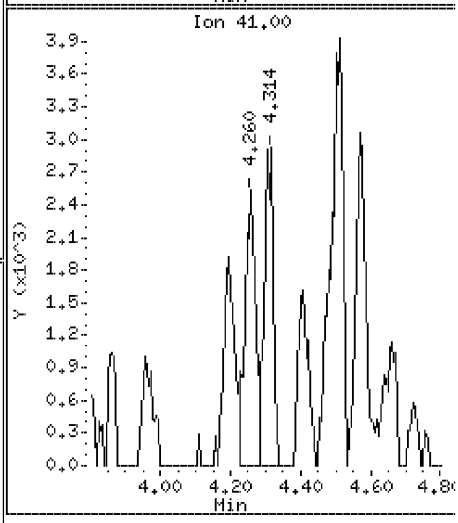
29 Methyl Tert Butyl Ether

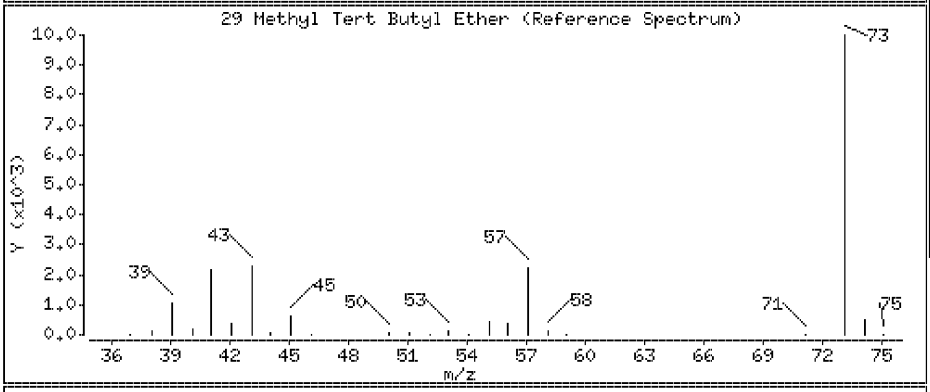
Concentration: 0.976 ppbv

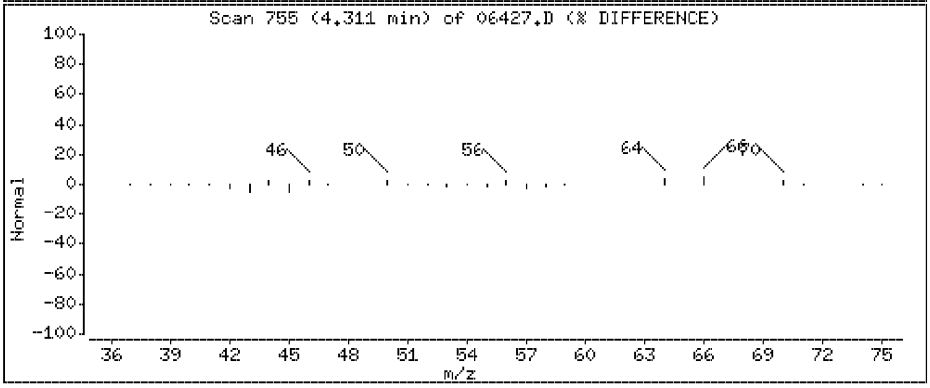












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

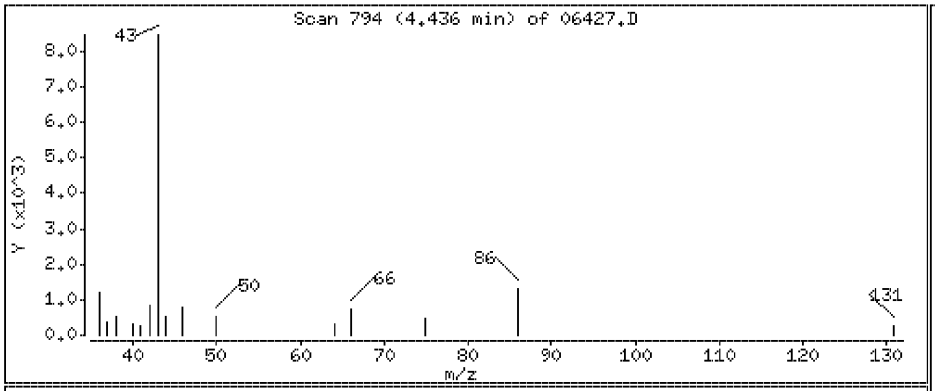
Operator: NCK

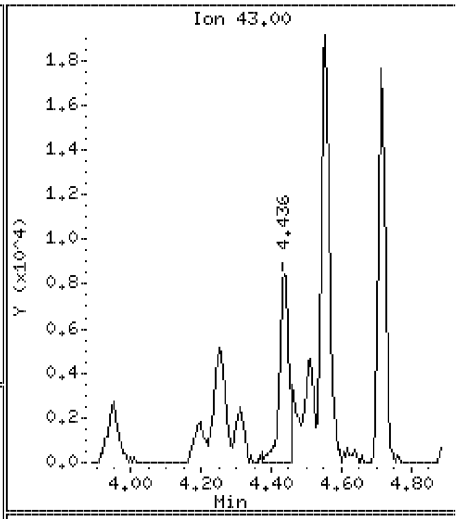
Column phase: J&W DB-5

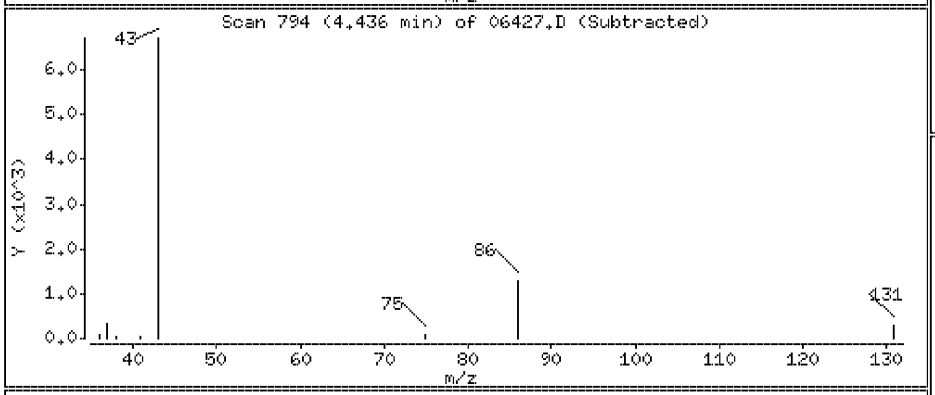
Column diameter: 0.32

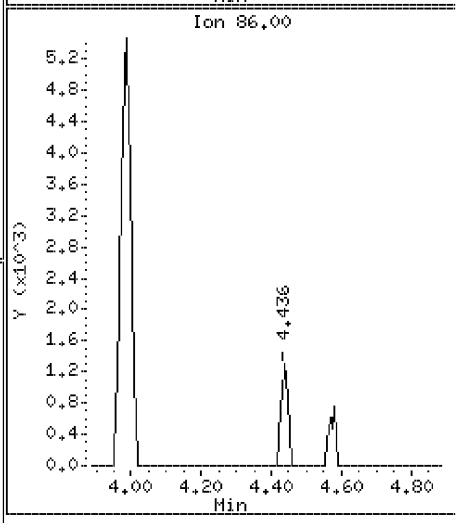
30 Vinyl Acetate

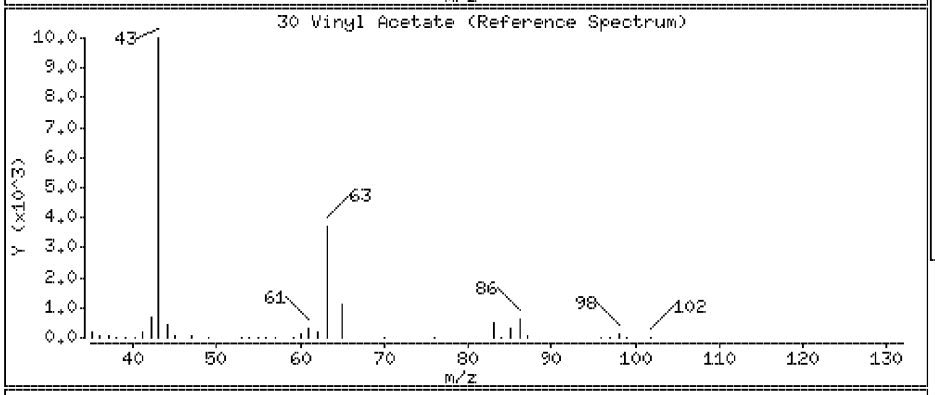
Concentration: 1.23 ppbv

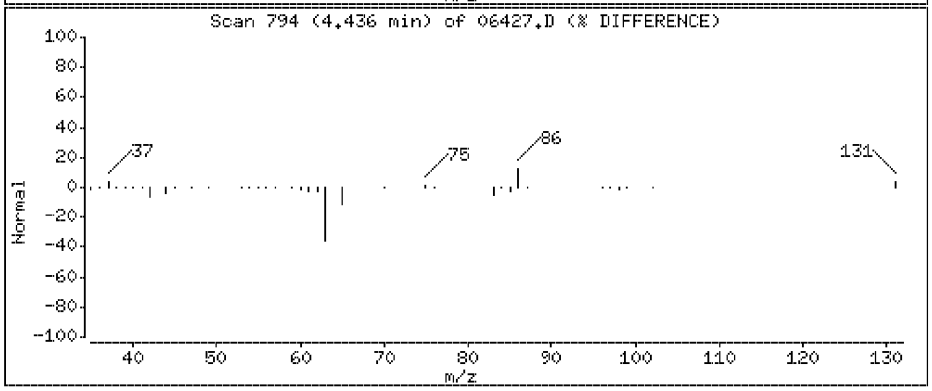












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

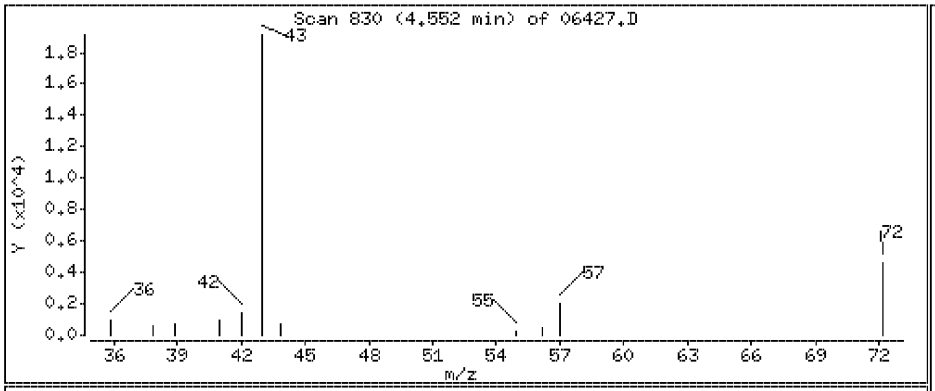
Operator: NCK

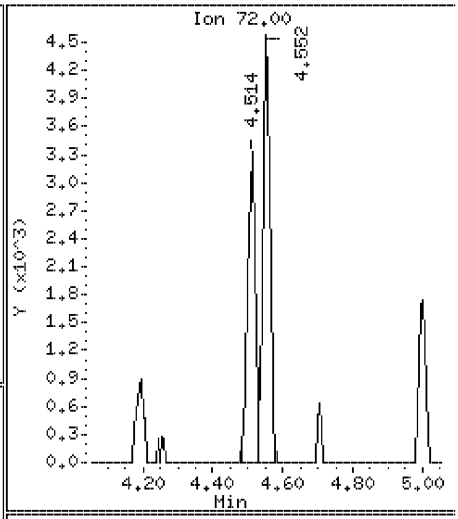
Column phase: J&W DB-5

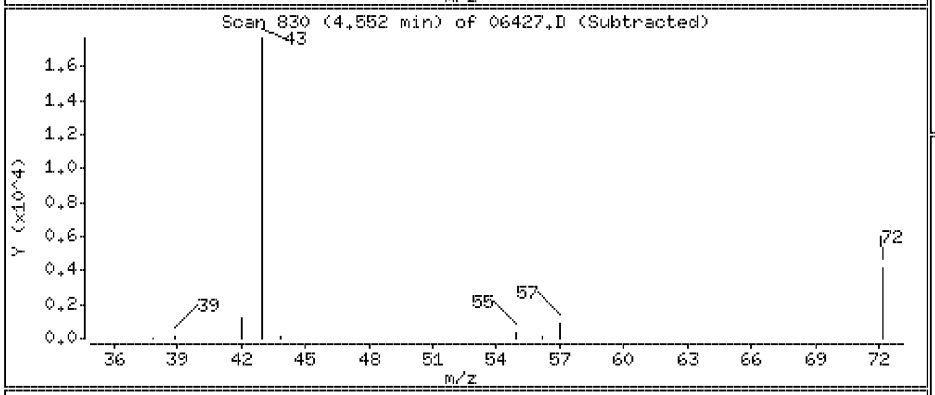
Column diameter: 0.32

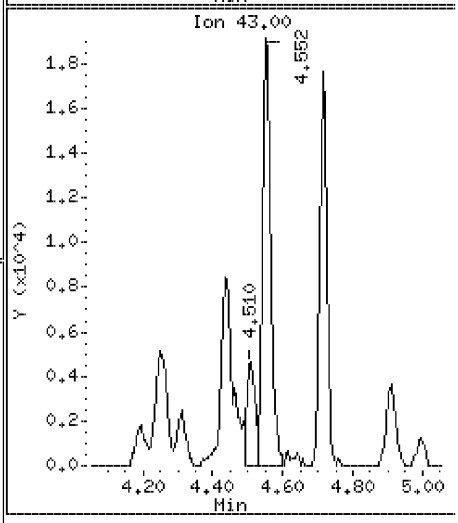
33 Methyl Ethyl Ketone

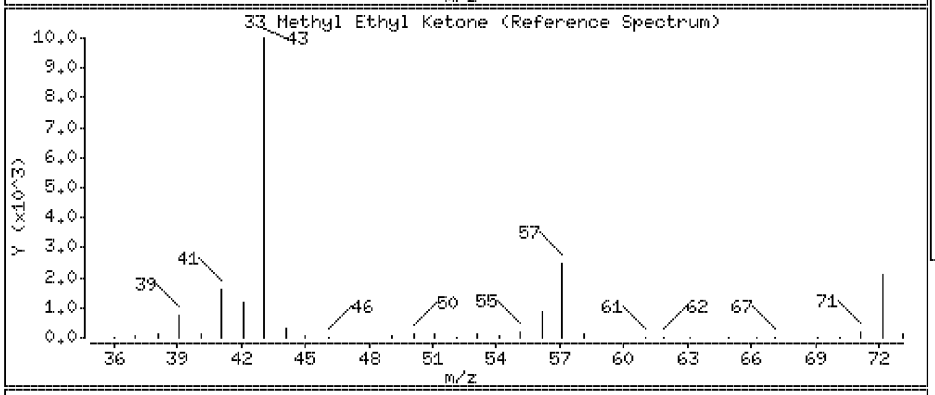
Concentration: 2.31 ppbv

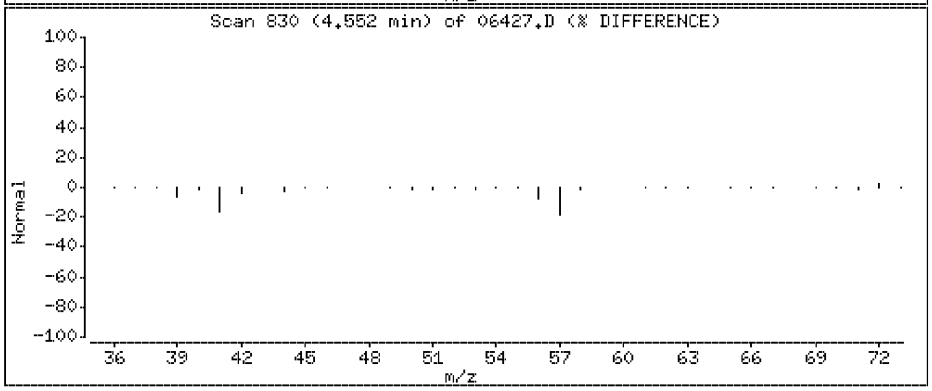












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

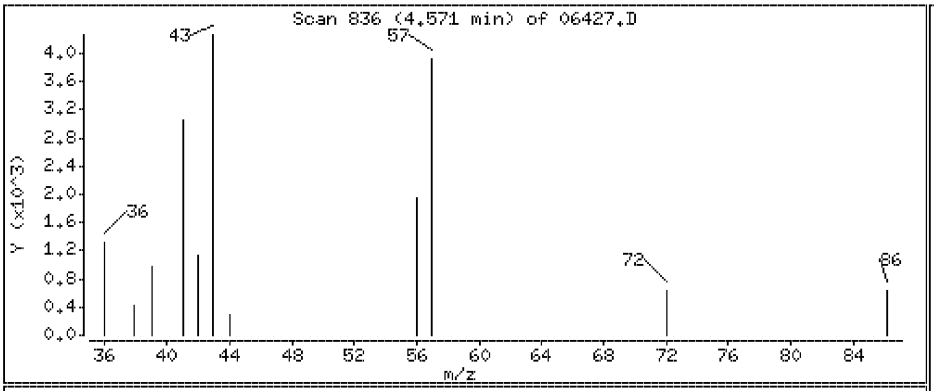
Operator: NCK

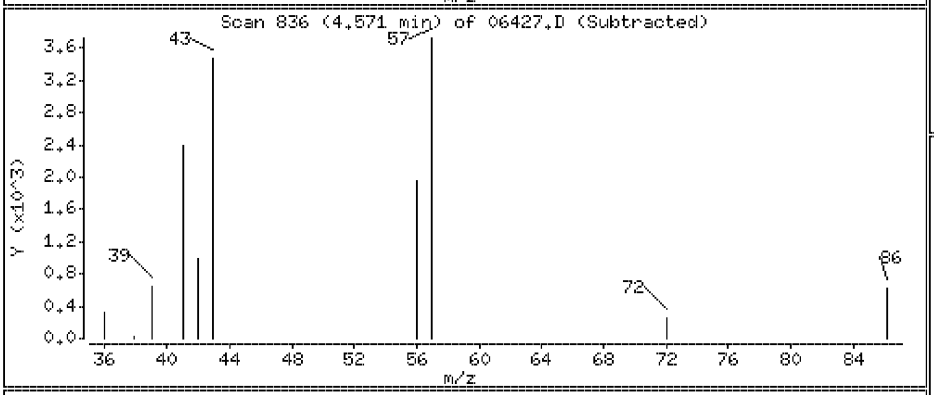
Column phase: J&W DB-5

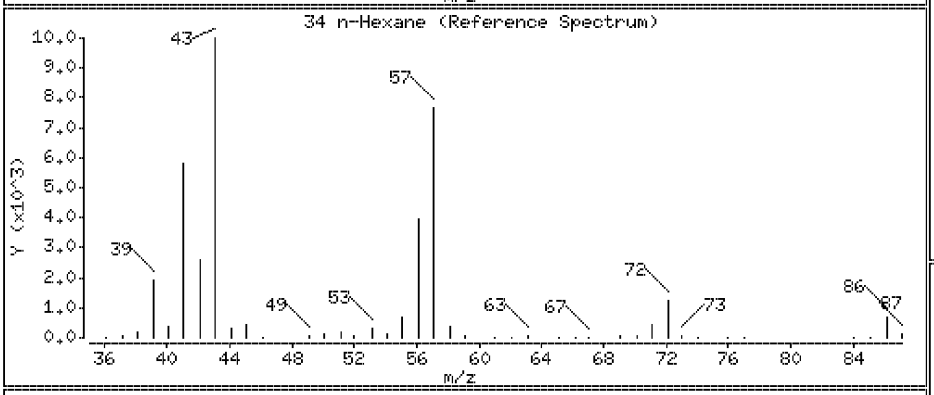
Column diameter: 0.32

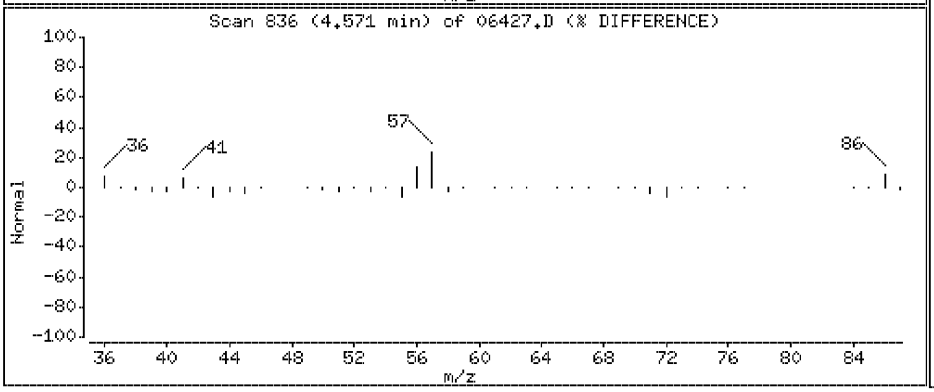
34 n-Hexane

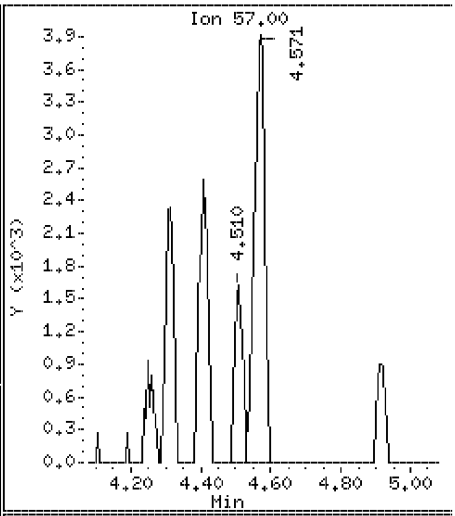
Concentration: 0.819 ppbv

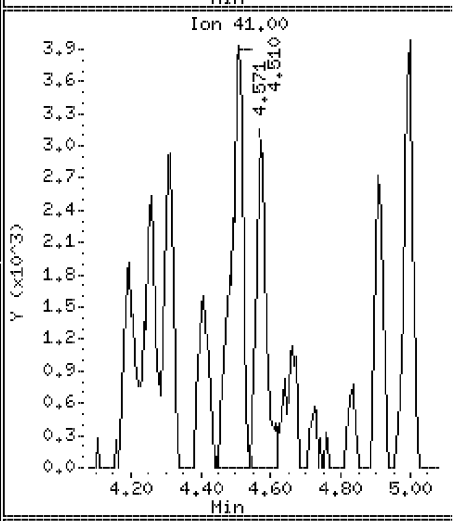


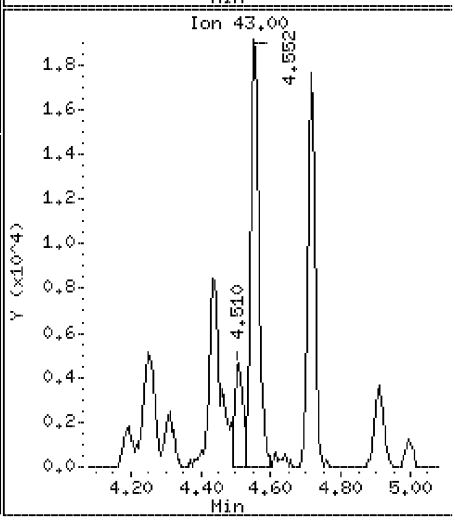












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

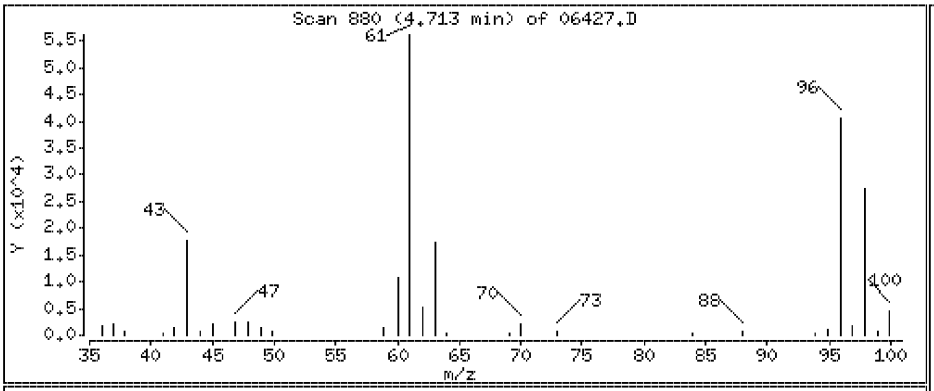
Operator: NCK

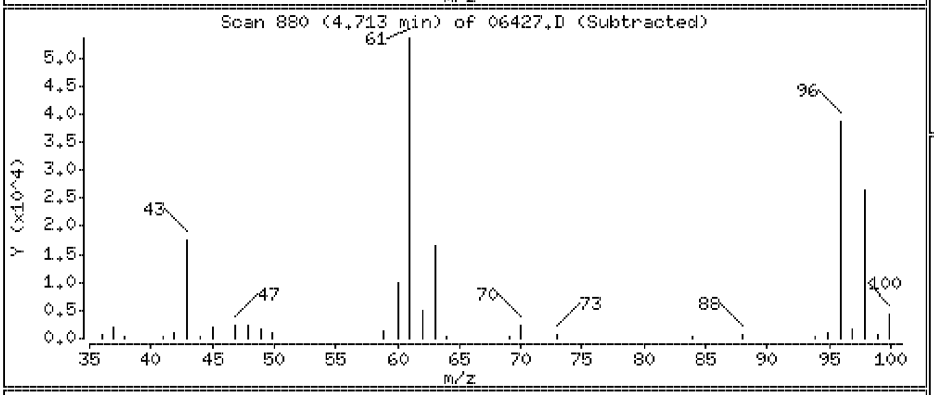
Column phase: J&W DB-5

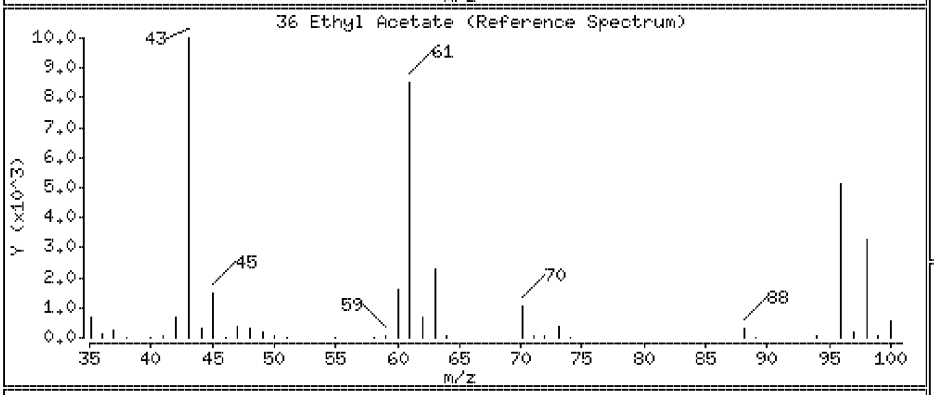
Column diameter: 0.32

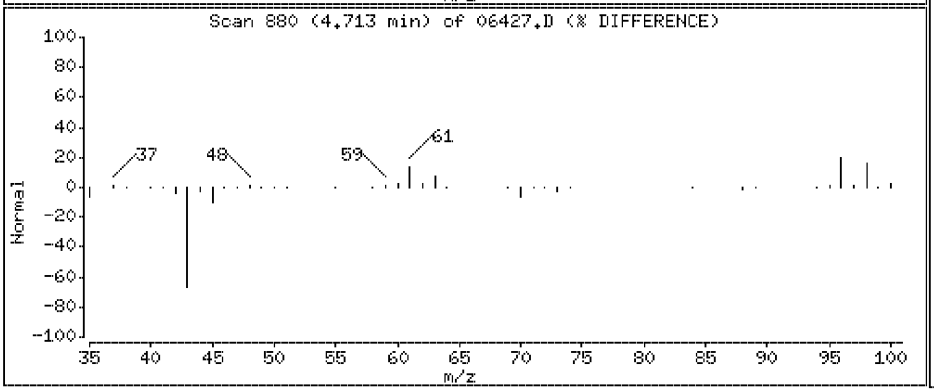
36 Ethyl Acetate

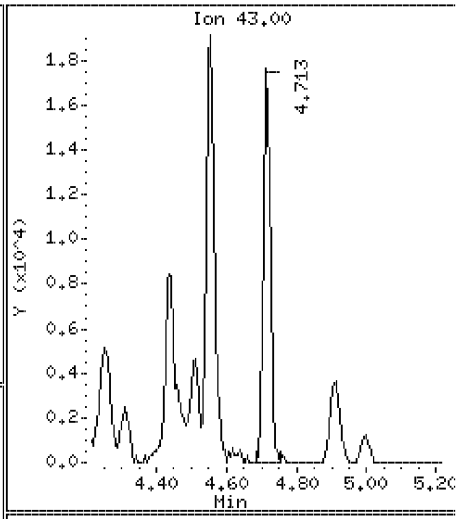
Concentration: 1.89 ppbv

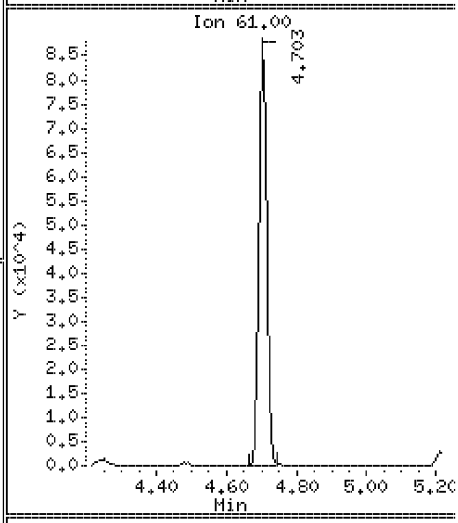


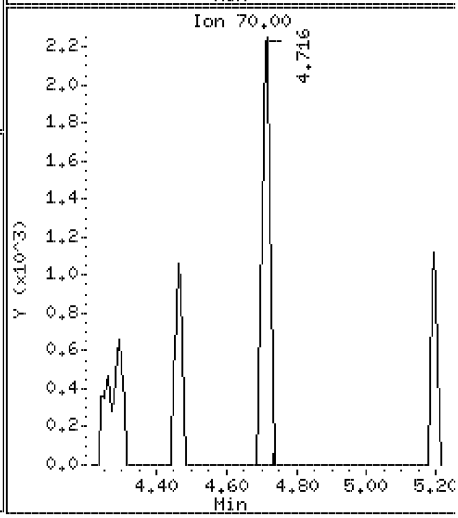












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

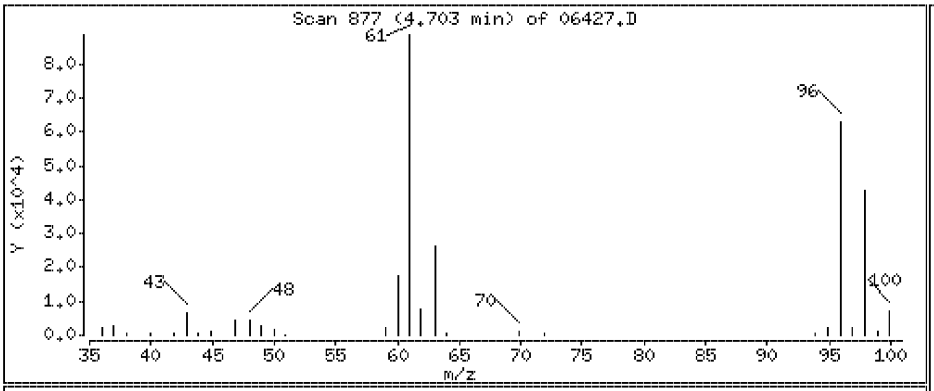
Operator: NCK

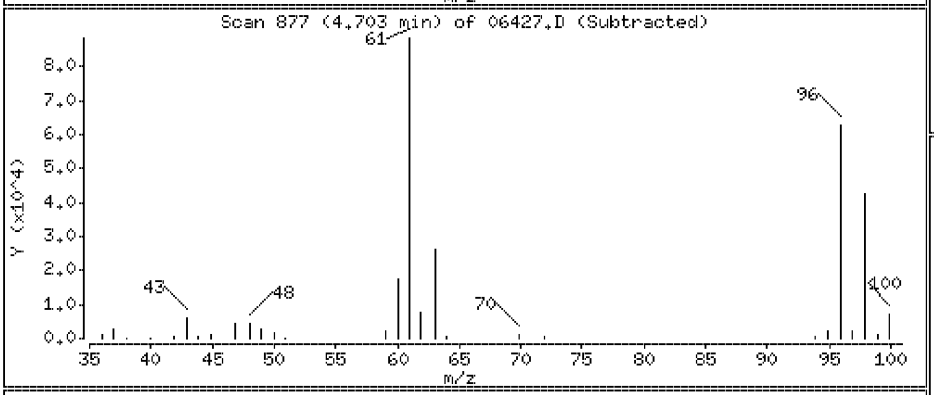
Column phase: J&W DB-5

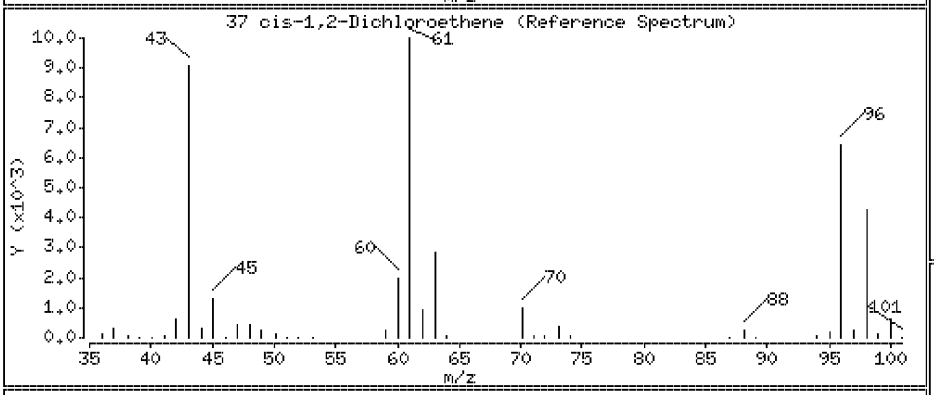
Column diameter: 0.32

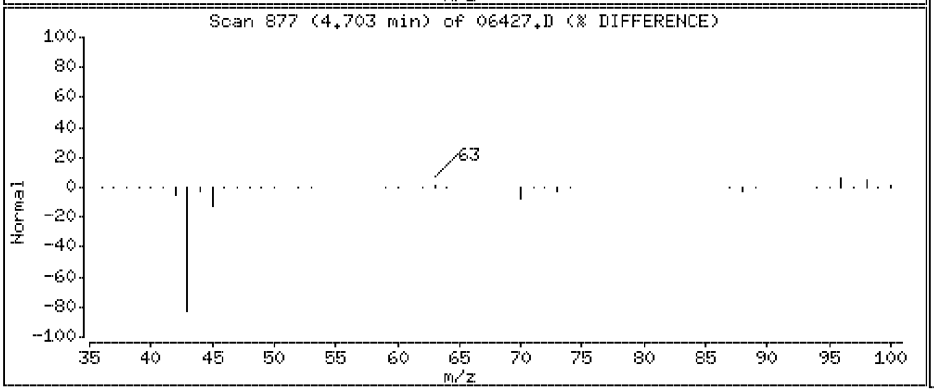
37 cis-1,2-Dichloroethene

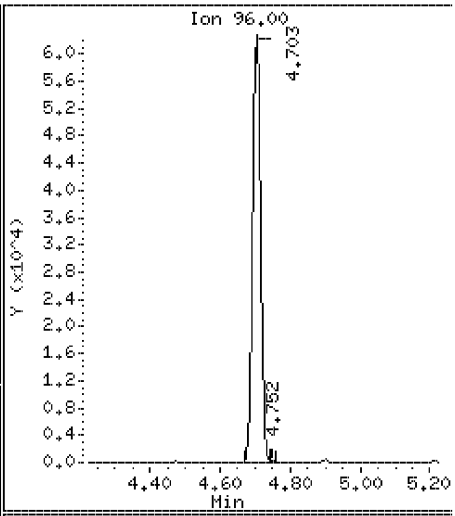
Concentration: 15.8 ppbv

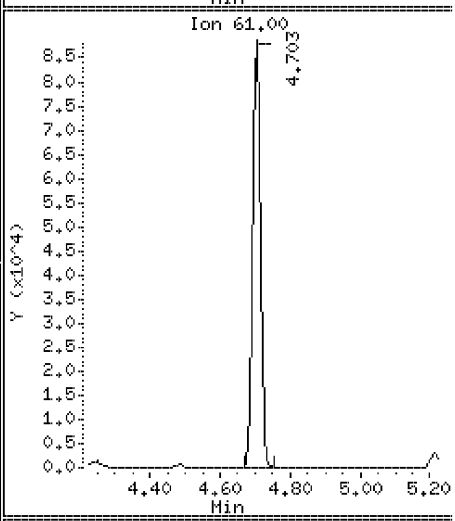


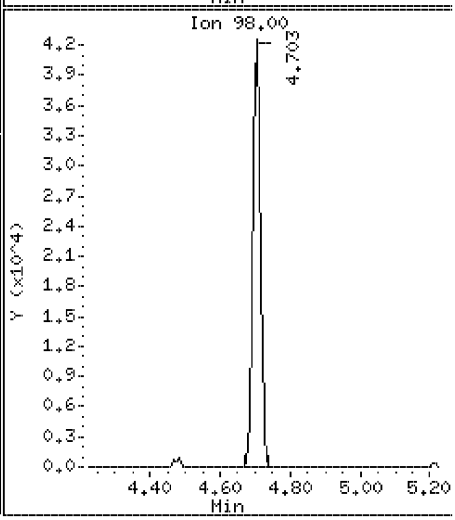












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

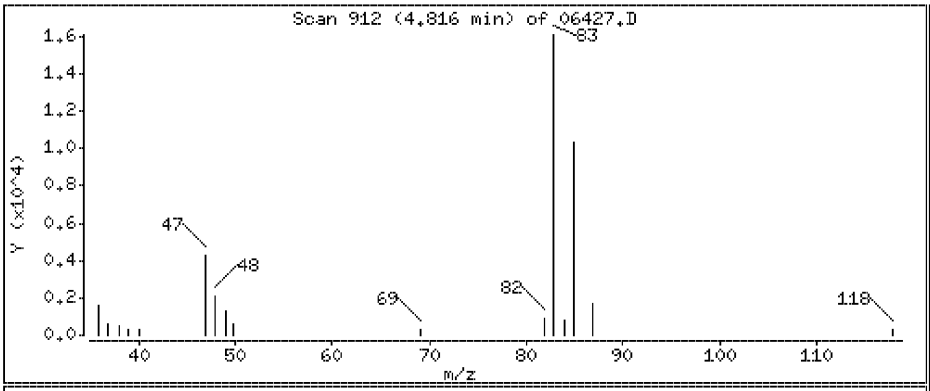
Operator: NCK

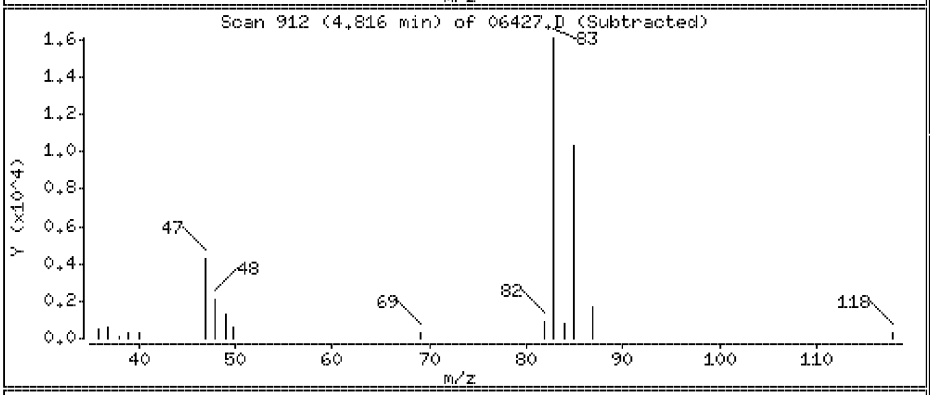
Column phase: J&W DB-5

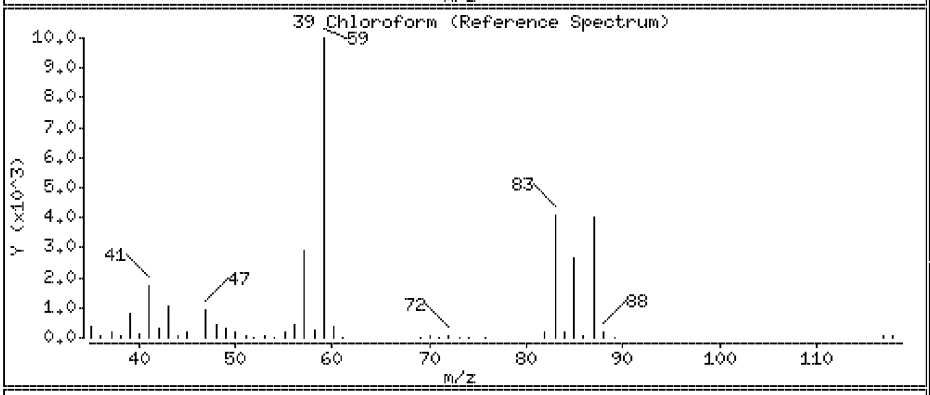
Column diameter: 0.32

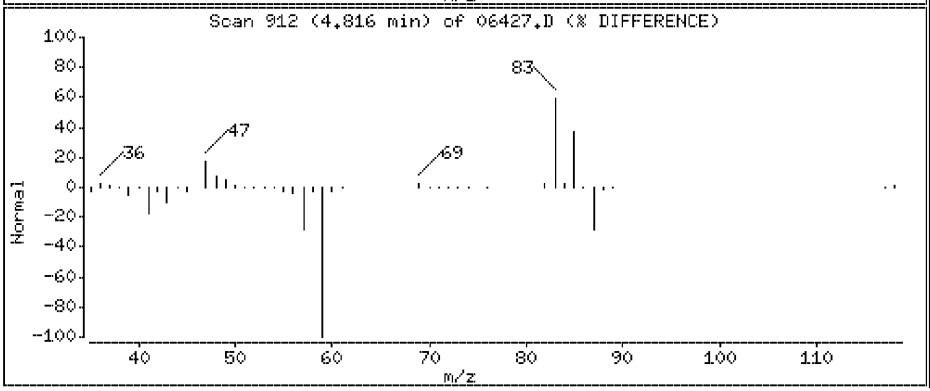
39 Chloroform

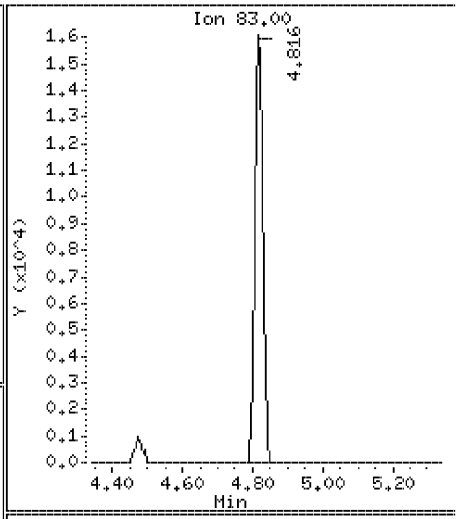
Concentration: 1.88 ppbv

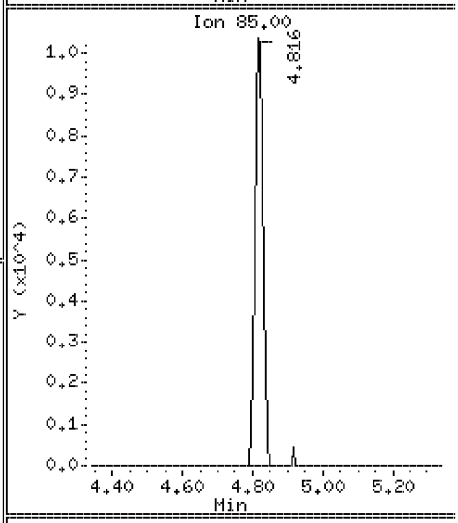


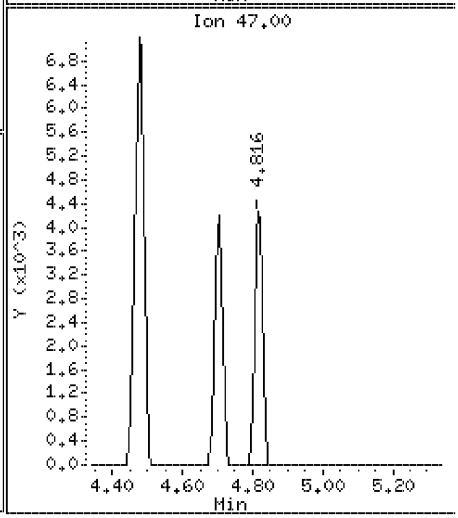












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

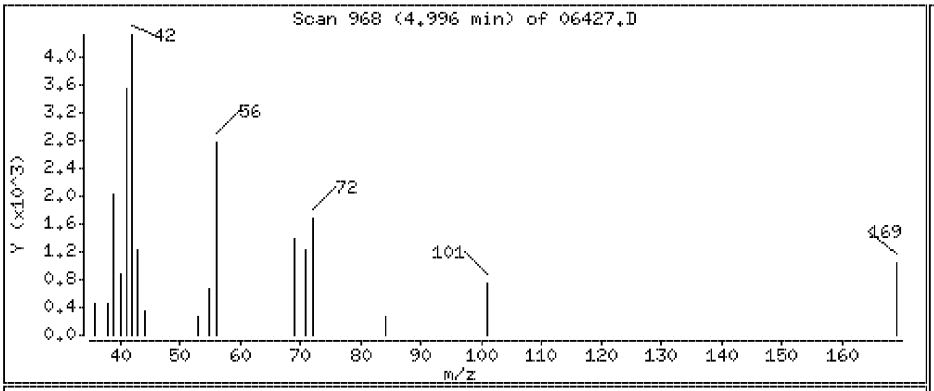
Operator: NCK

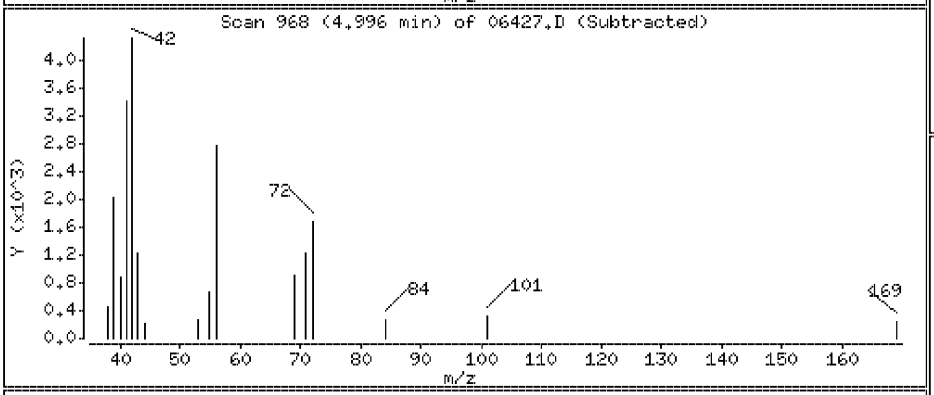
Column phase: J&W DB-5

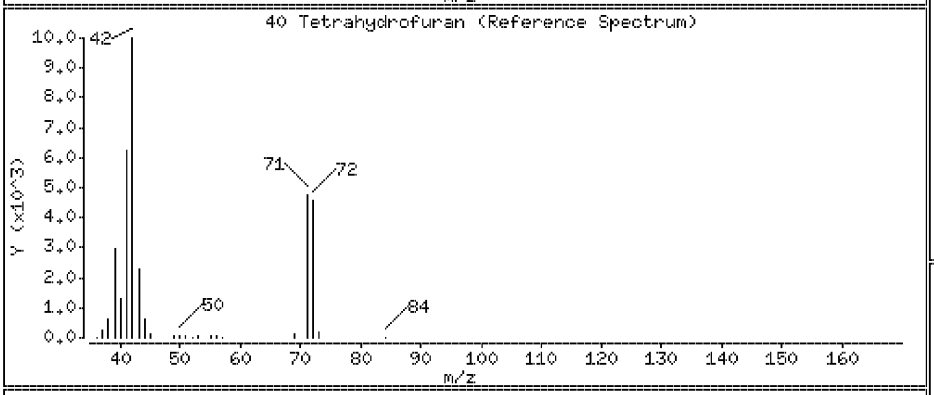
Column diameter: 0.32

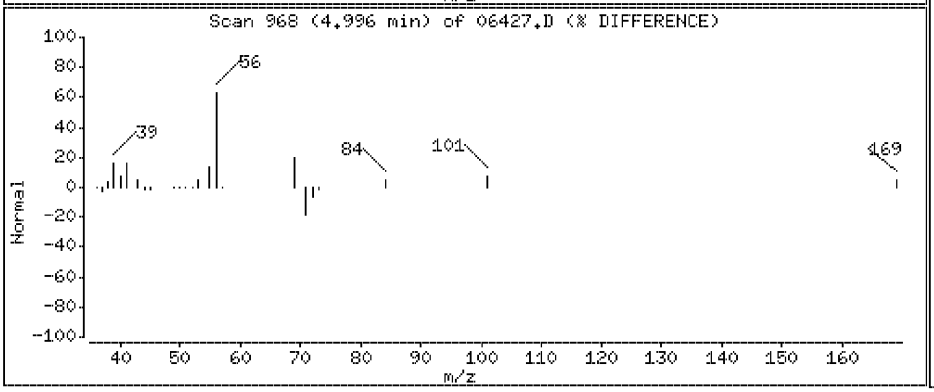
40 Tetrahydrofuran

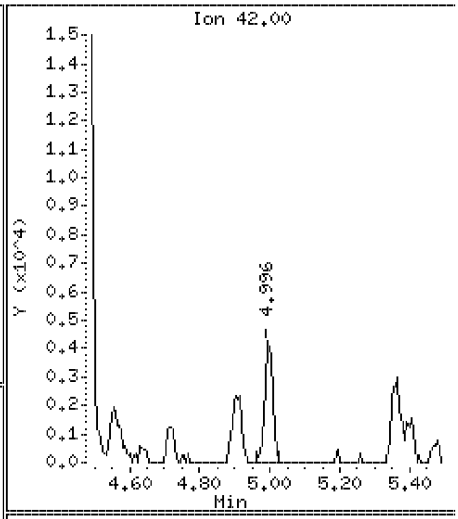
Concentration: 0.947 ppbv

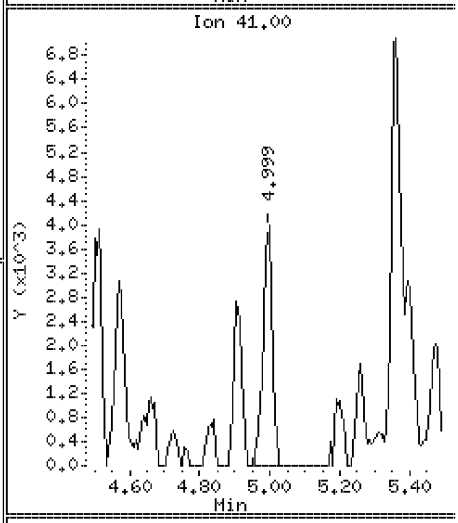


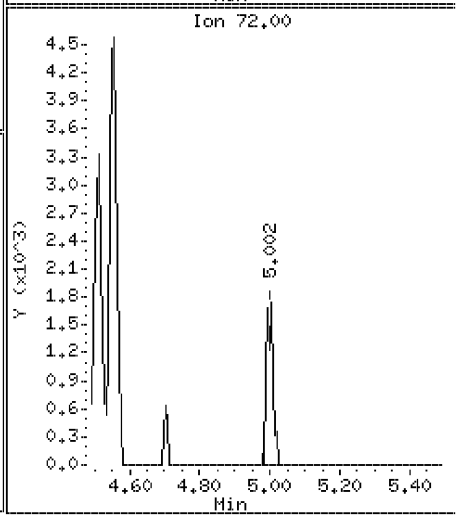












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

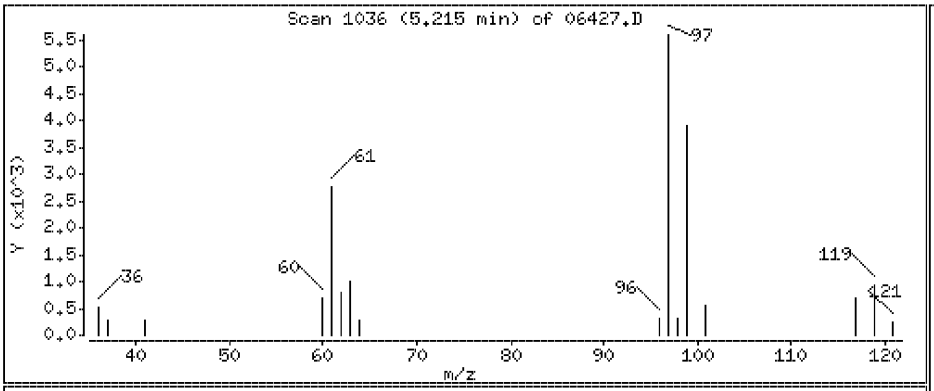
Operator: NCK

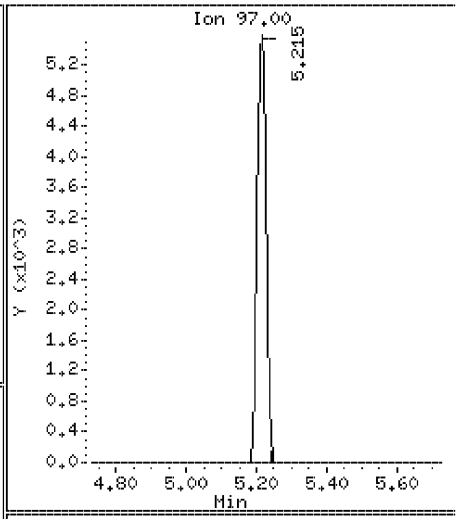
Column phase: J&W DB-5

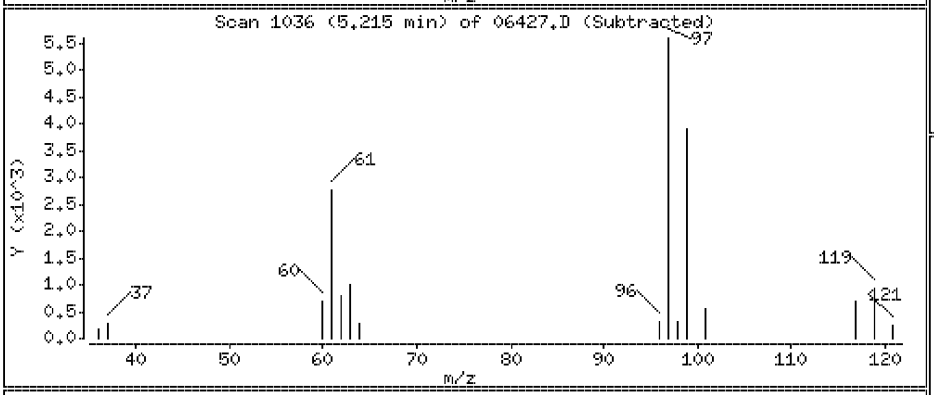
Column diameter: 0.32

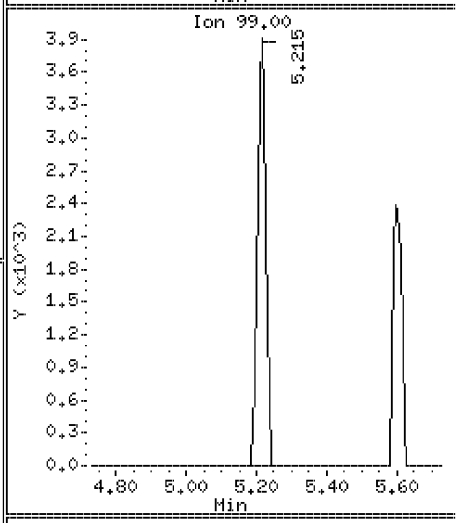
41 1,1,1-Trichloroethane

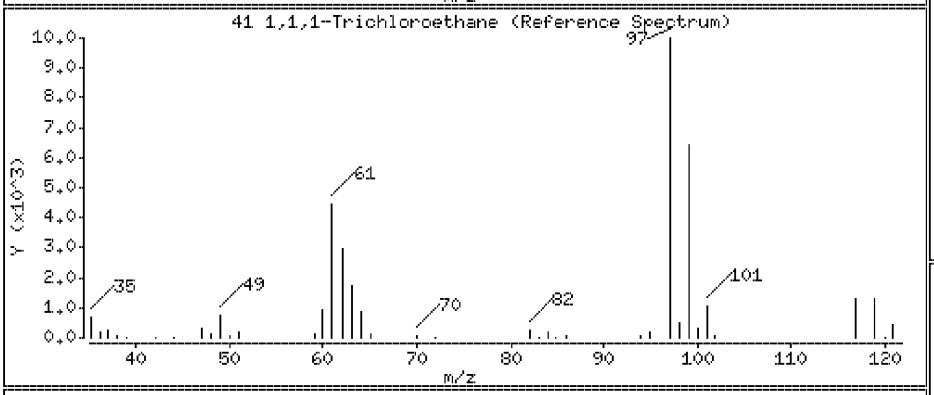
Concentration: 0.640 ppbv

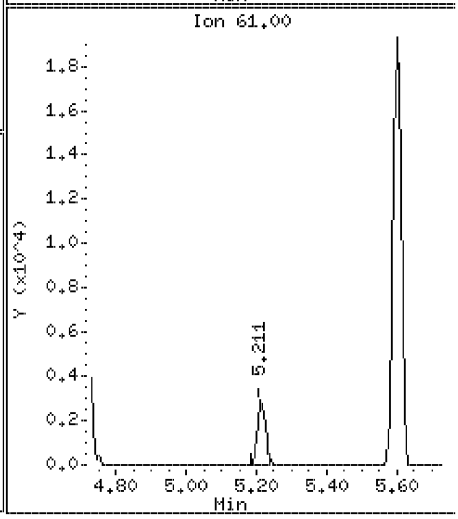


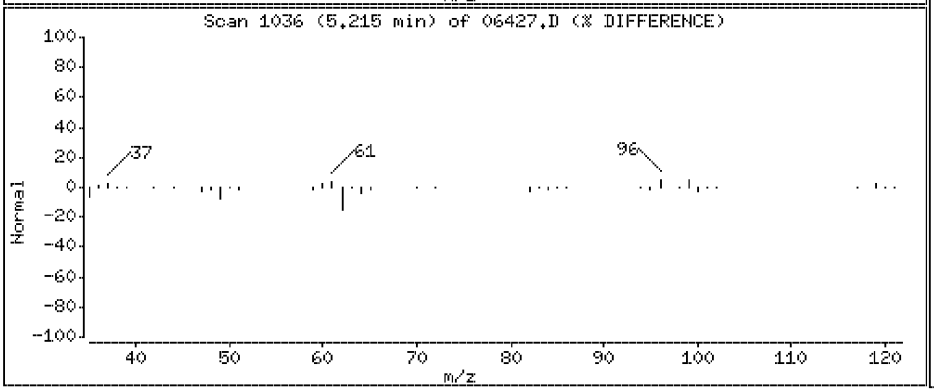












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

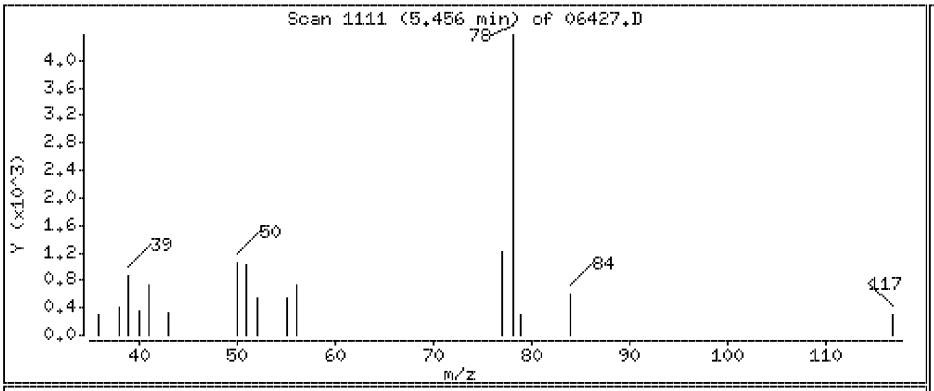
Operator: NCK

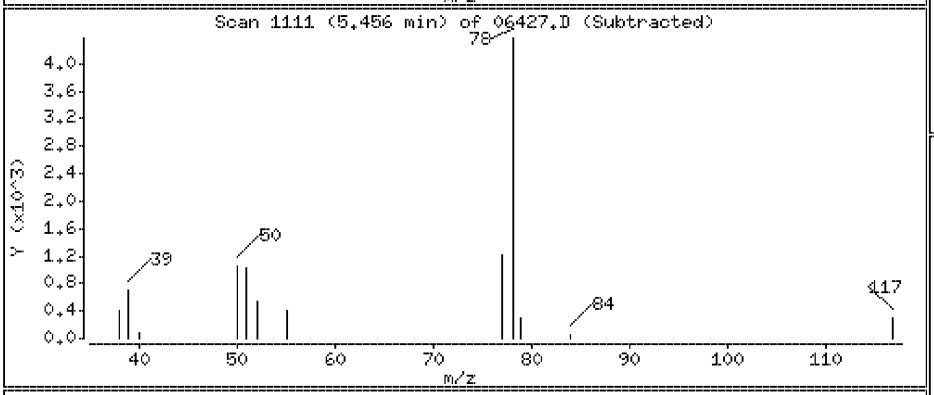
Column phase: J&W DB-5

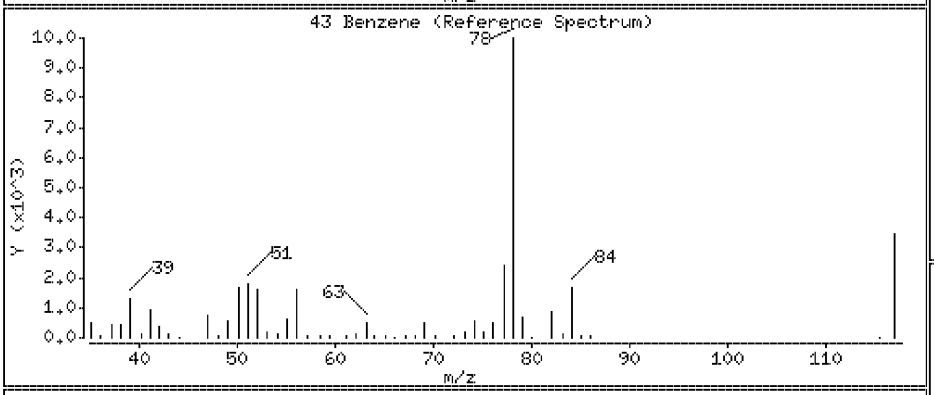
Column diameter: 0.32

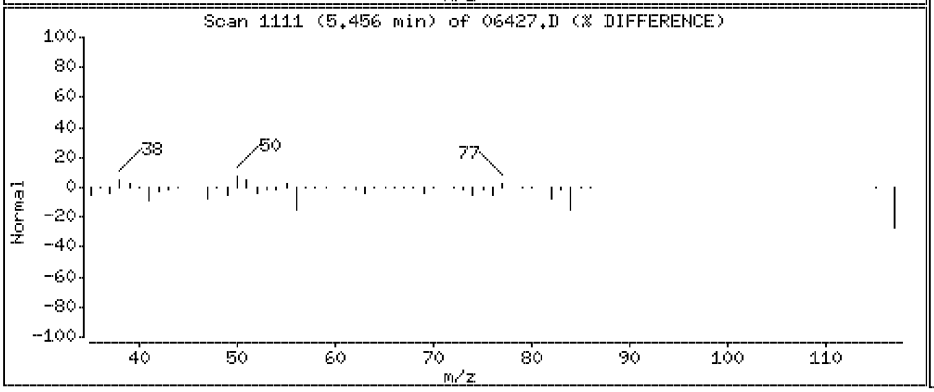
43 Benzene

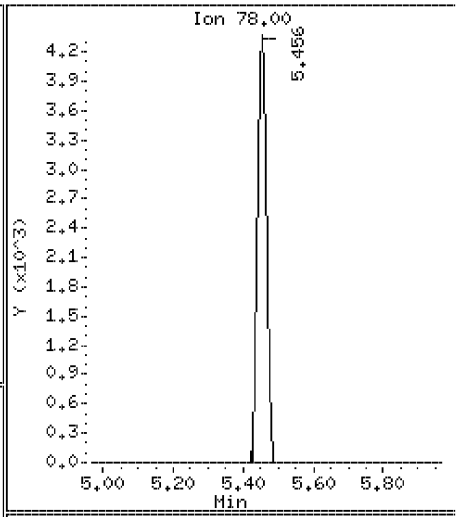
Concentration: 0.397 ppbv

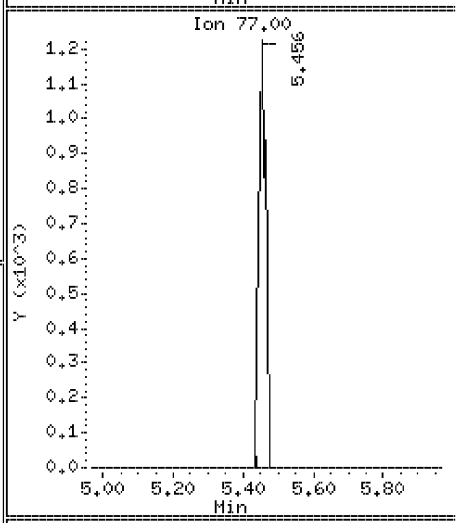


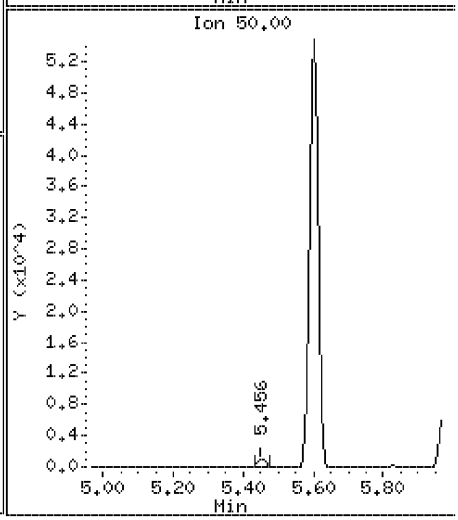












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

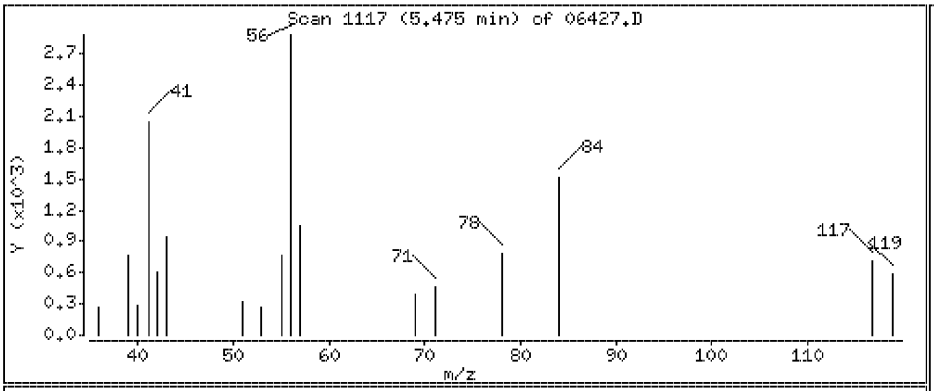
Operator: NCK

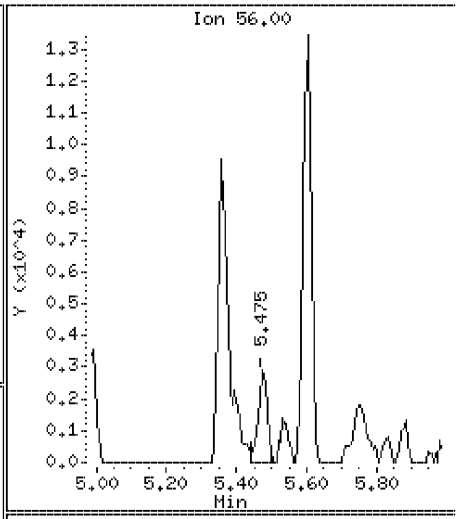
Column phase: J&W DB-5

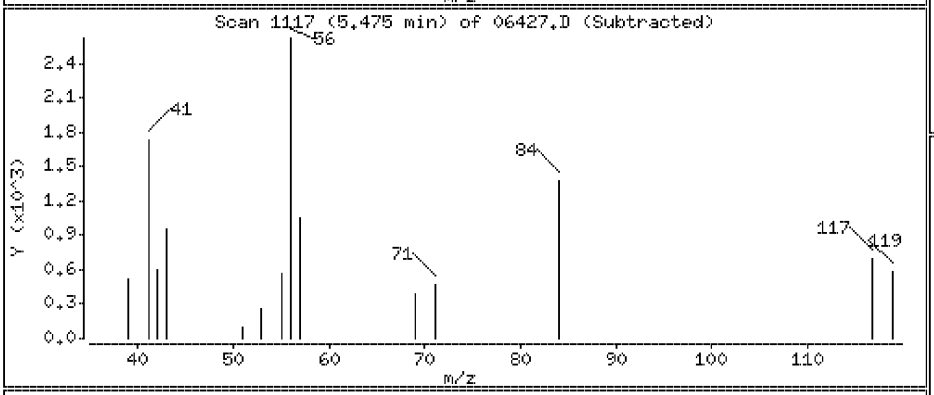
Column diameter: 0.32

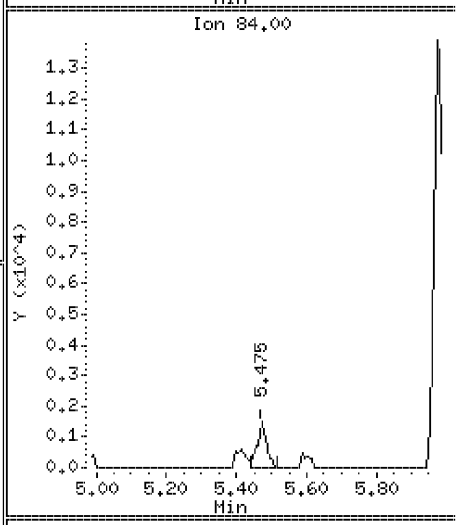
45 Cyclohexane

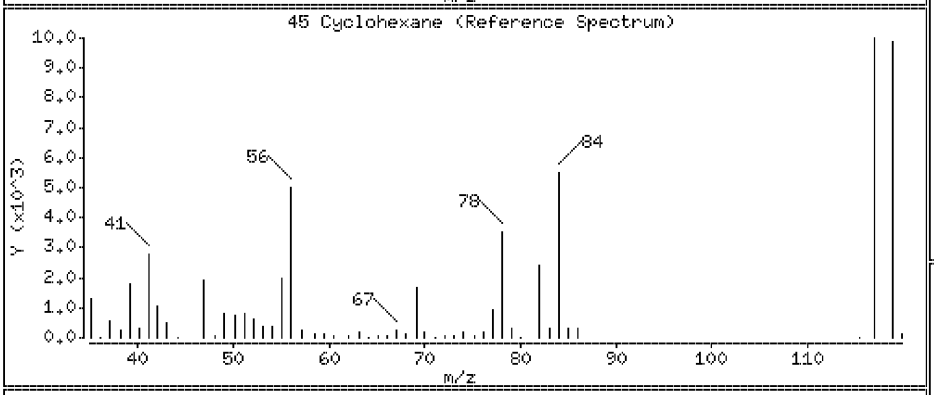
Concentration: 0.507 ppbv

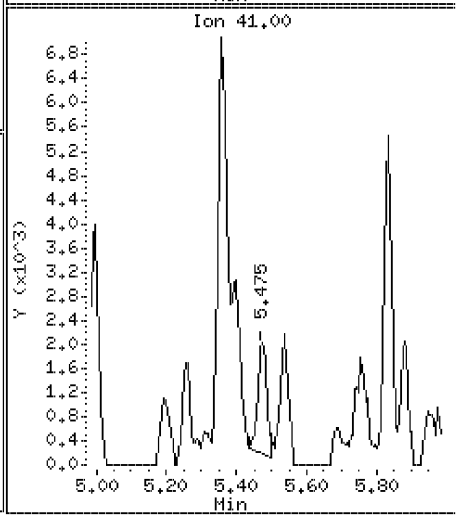


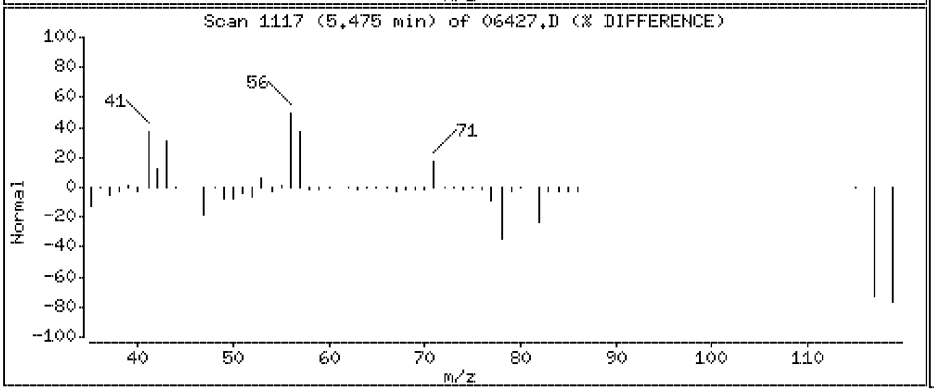












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

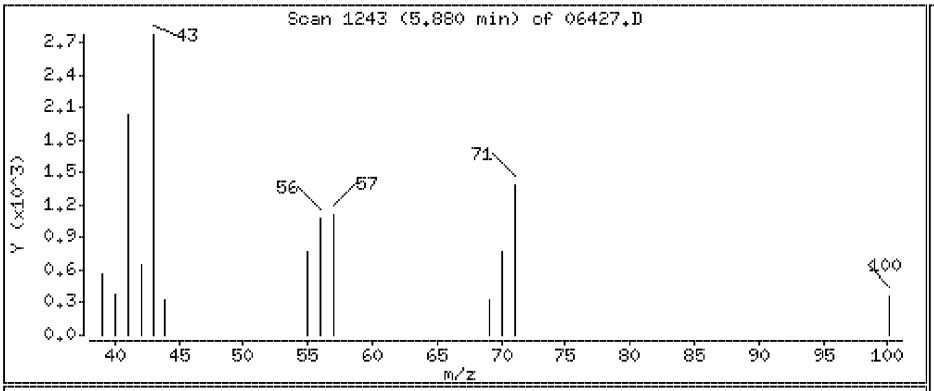
Operator: NCK

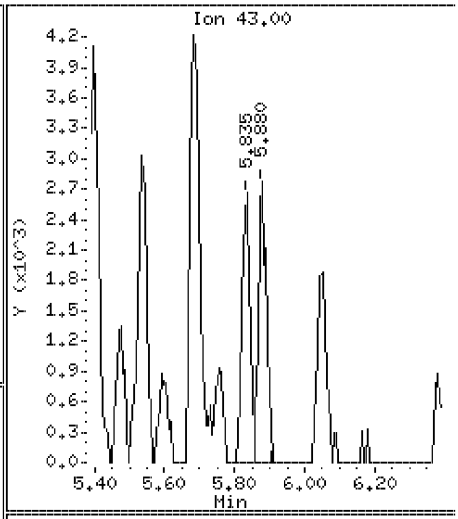
Column phase: J&W DB-5

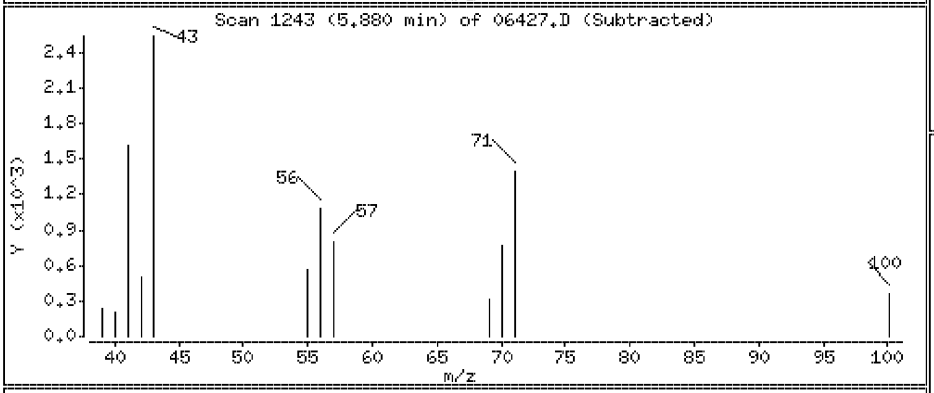
Column diameter: 0.32

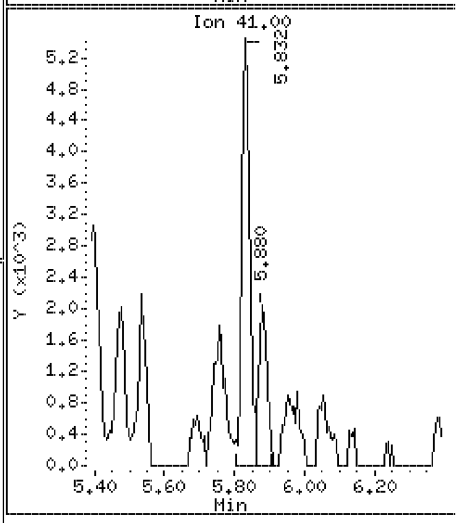
49 Heptane

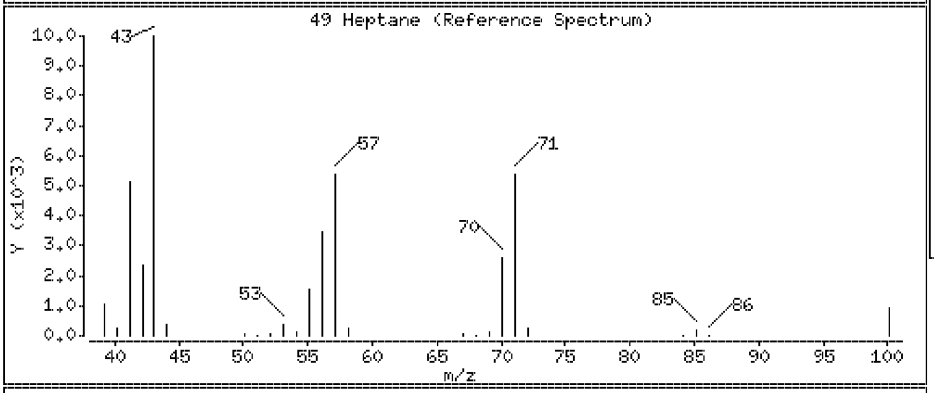
Concentration: 0.394 ppbv

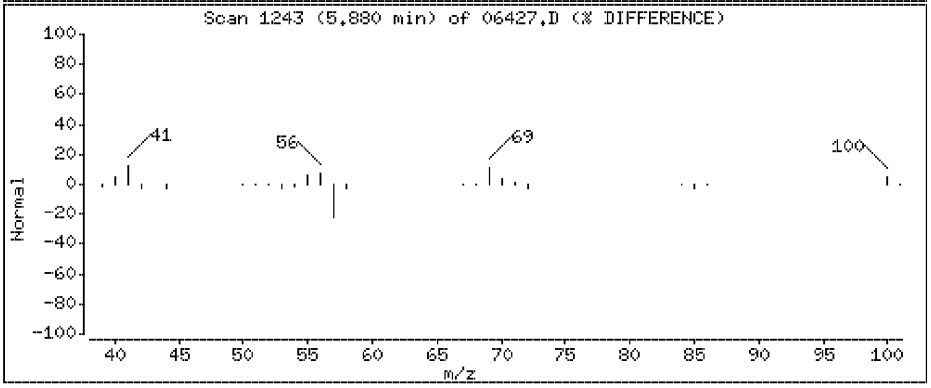












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

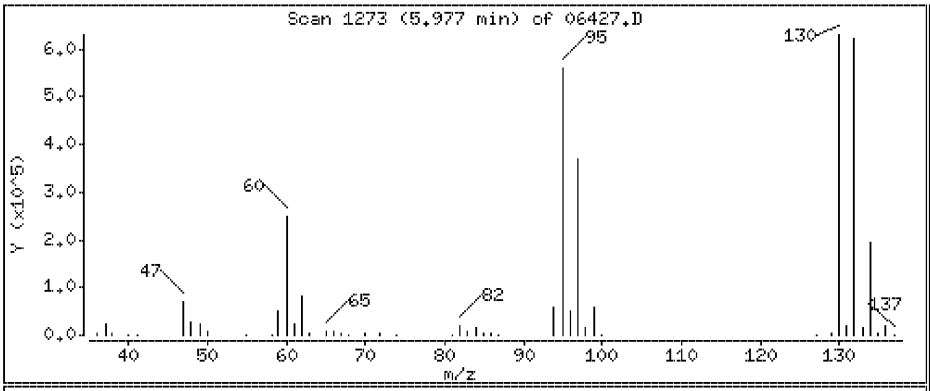
Operator: NCK

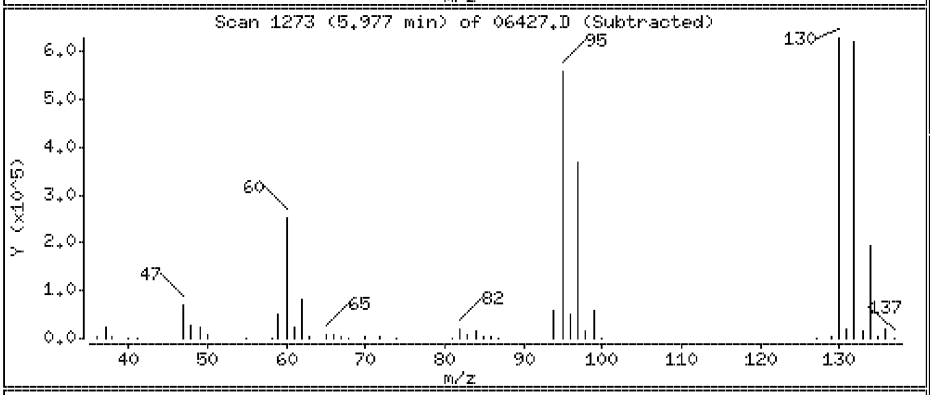
Column phase: J&W DB-5

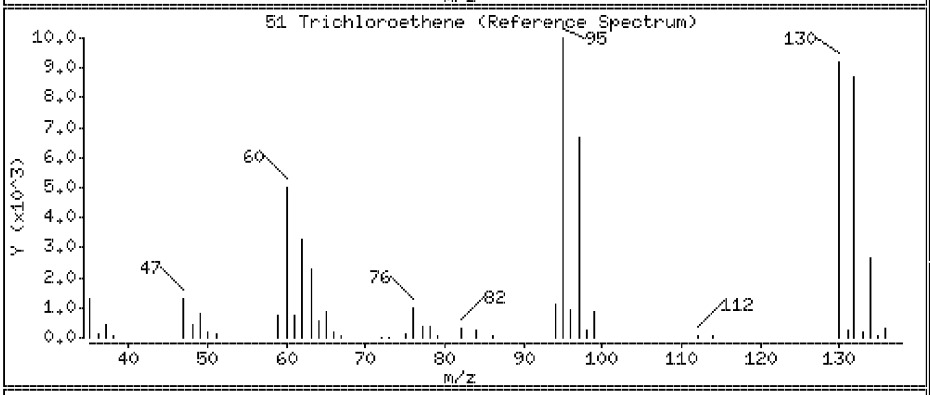
Column diameter: 0.32

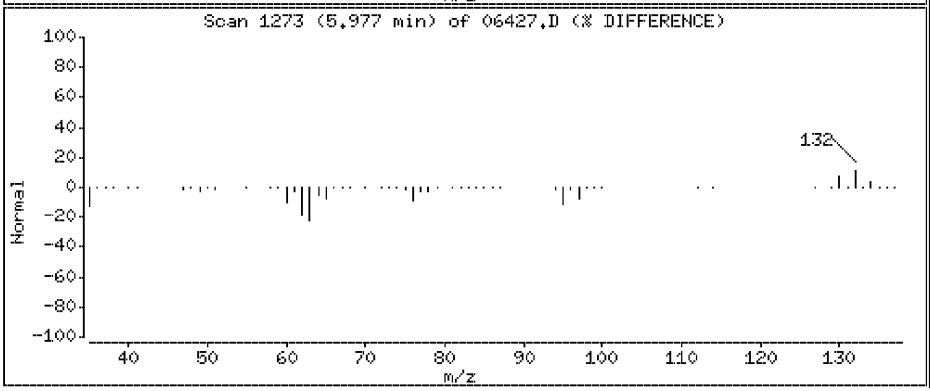
51 Trichloroethene

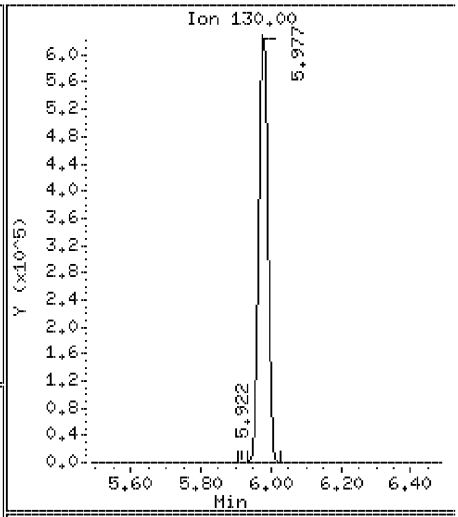
Concentration: 109 ppbv

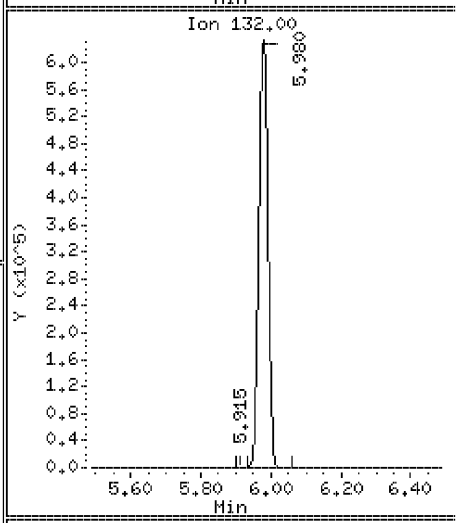


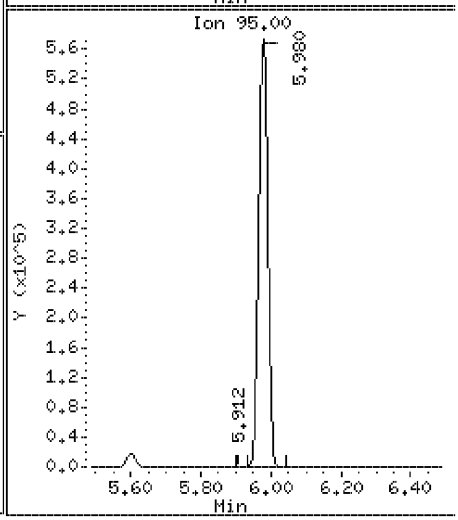












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

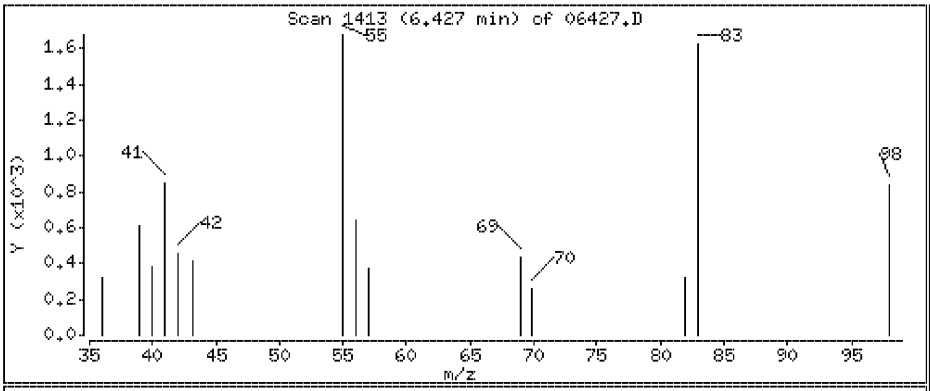
Operator: NCK

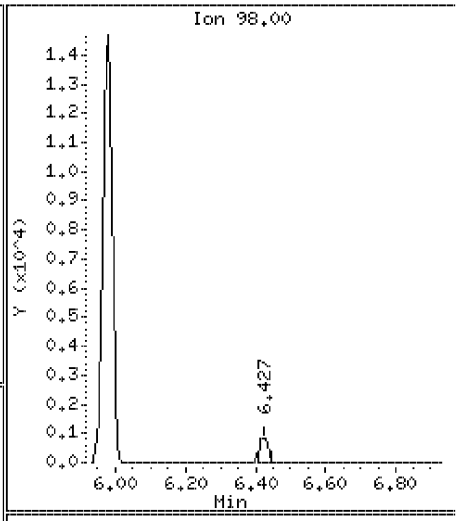
Column phase: J&W DB-5

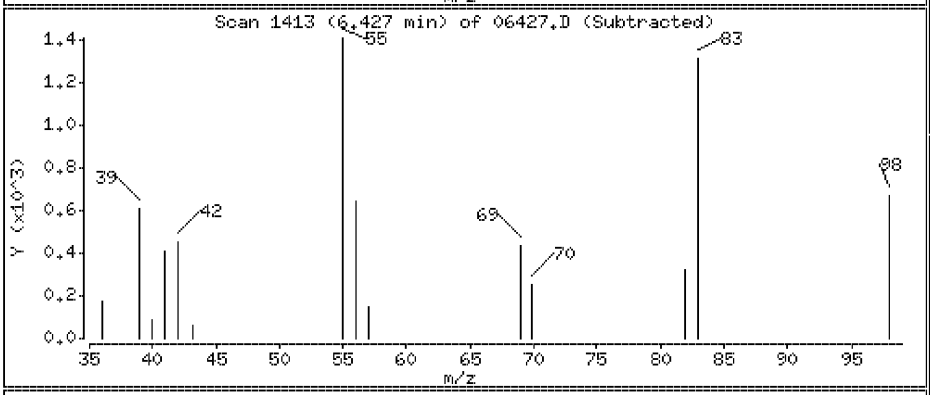
Column diameter: 0.32

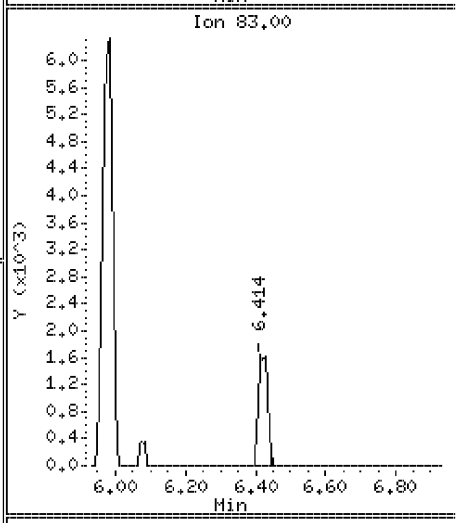
55 Methylcyclohexane

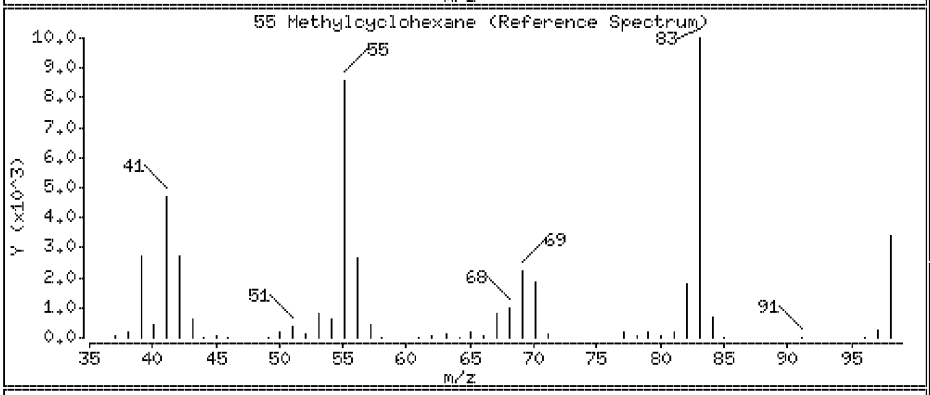
Concentration: 0.237 ppbv

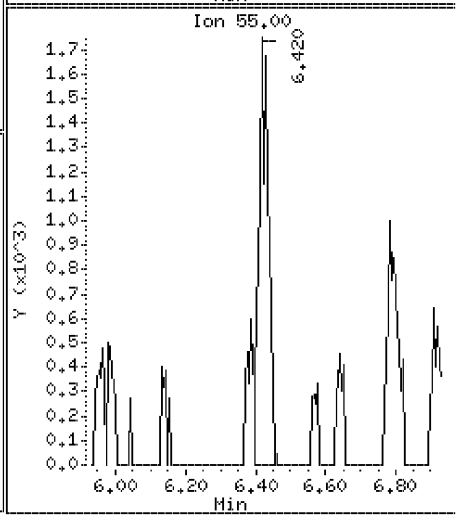


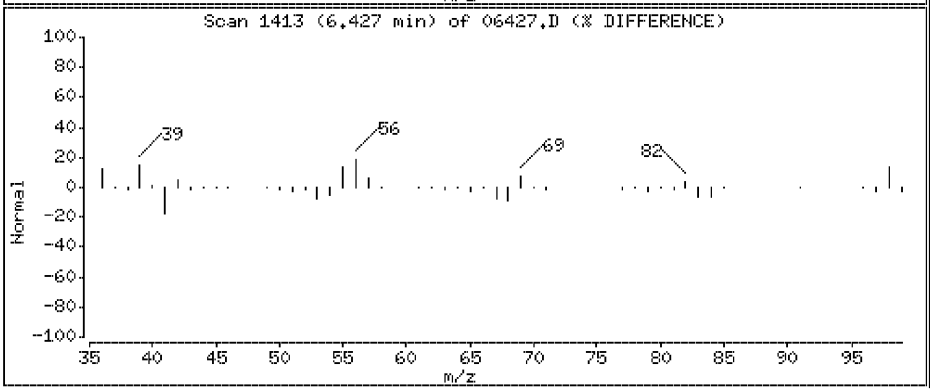












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

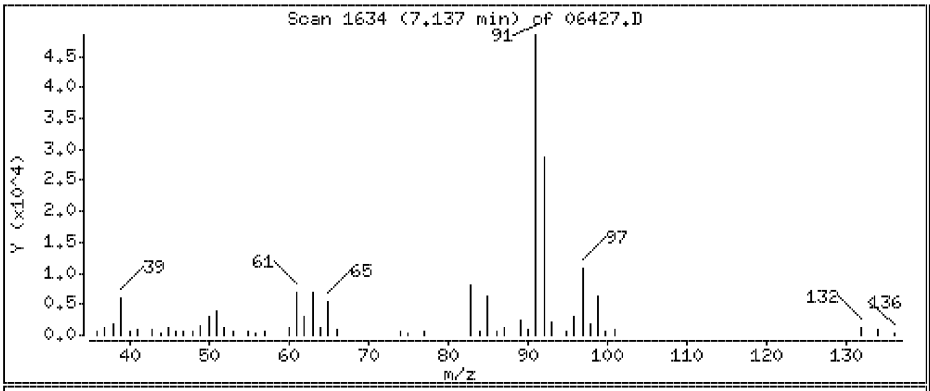
Operator: NCK

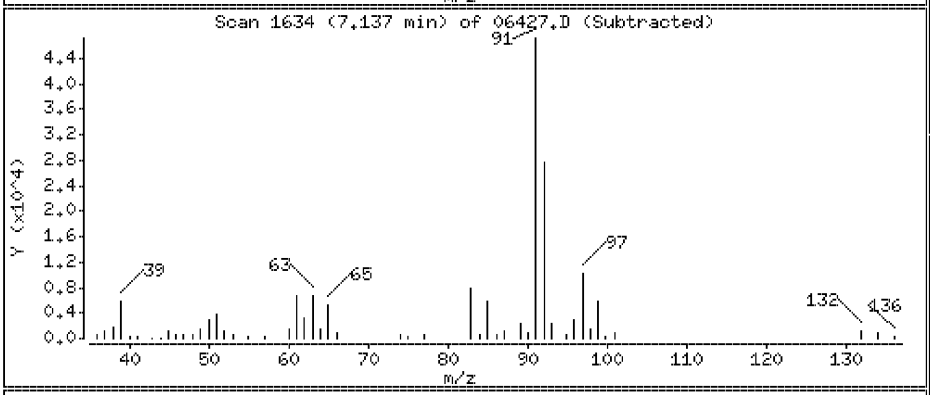
Column phase: J&W DB-5

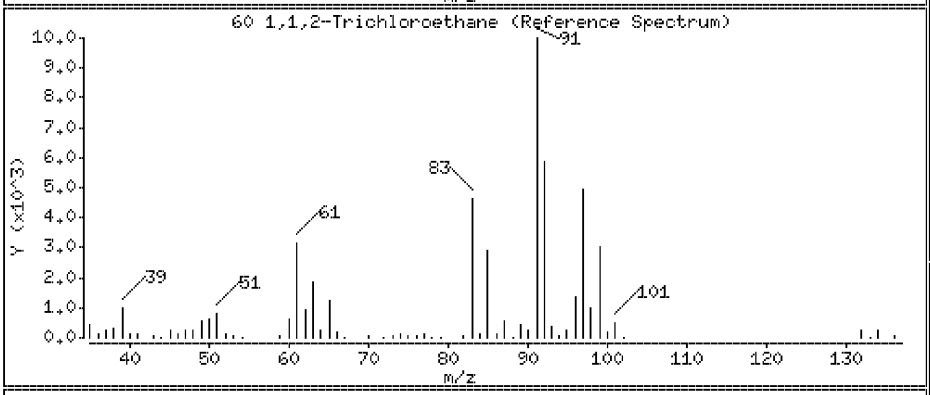
Column diameter: 0.32

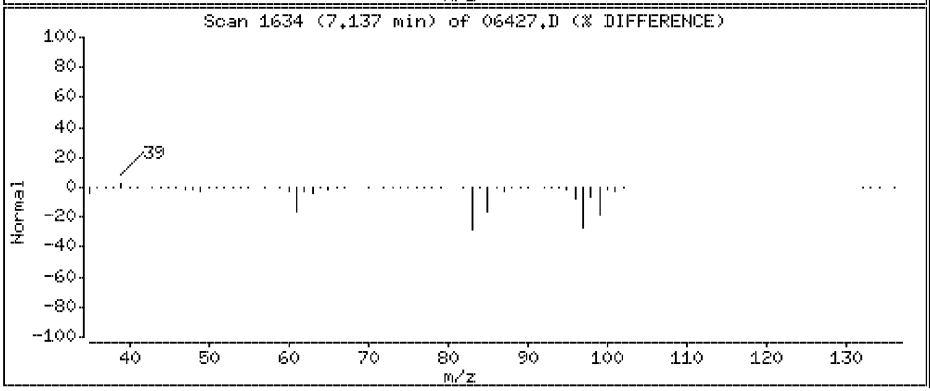
60 1,1,2-Trichloroethane

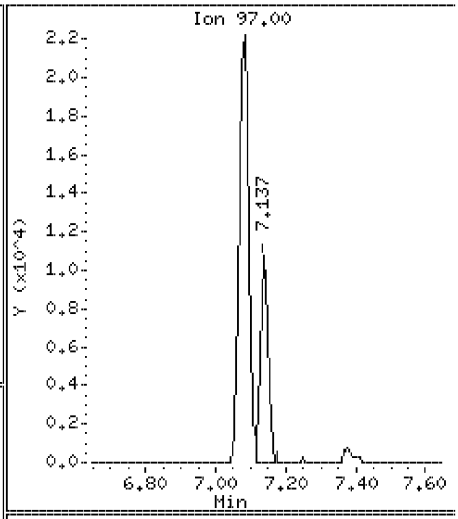
Concentration: 1.97 ppbv

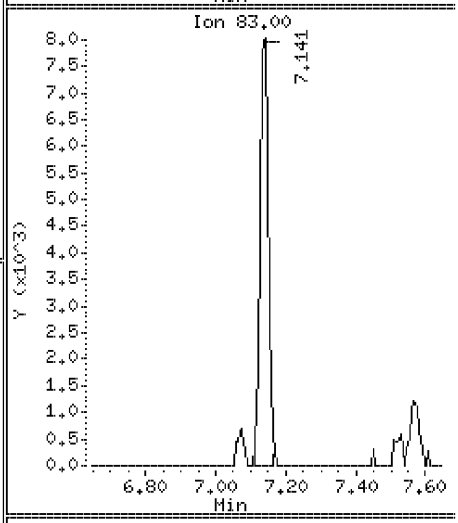


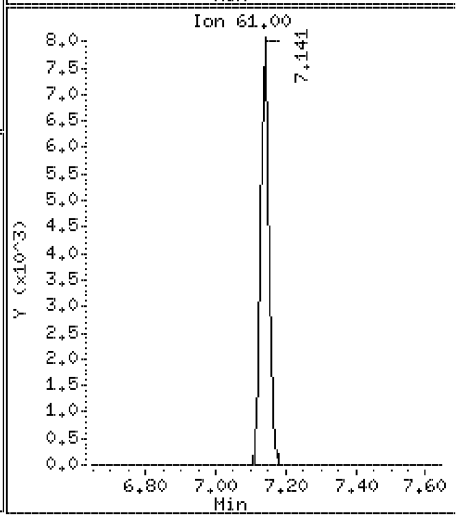












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

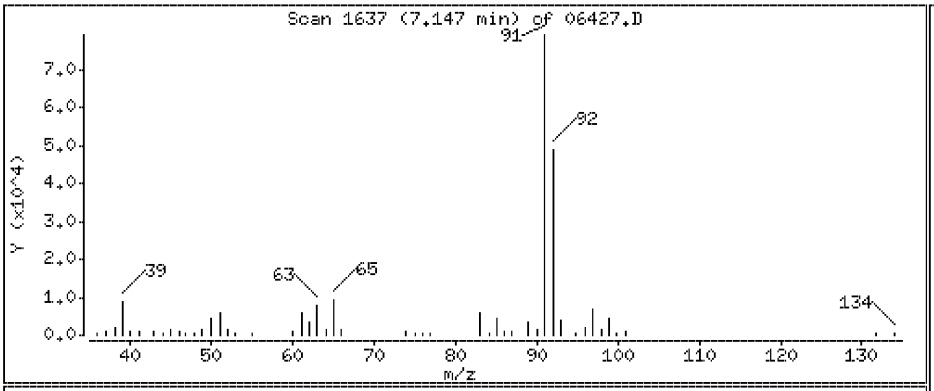
Operator: NCK

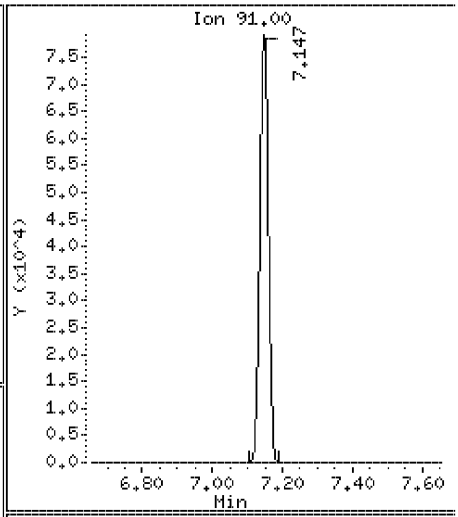
Column phase: J&W DB-5

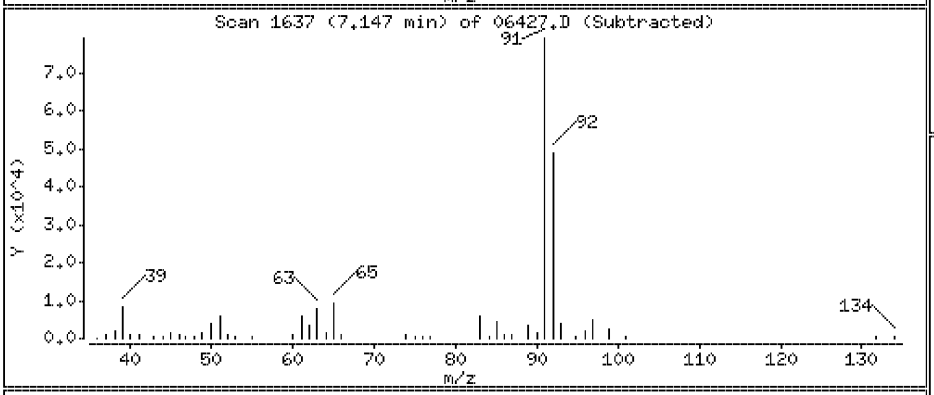
Column diameter: 0.32

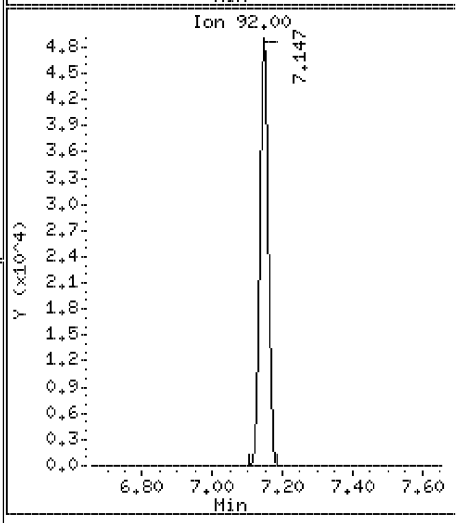
61 Toluene

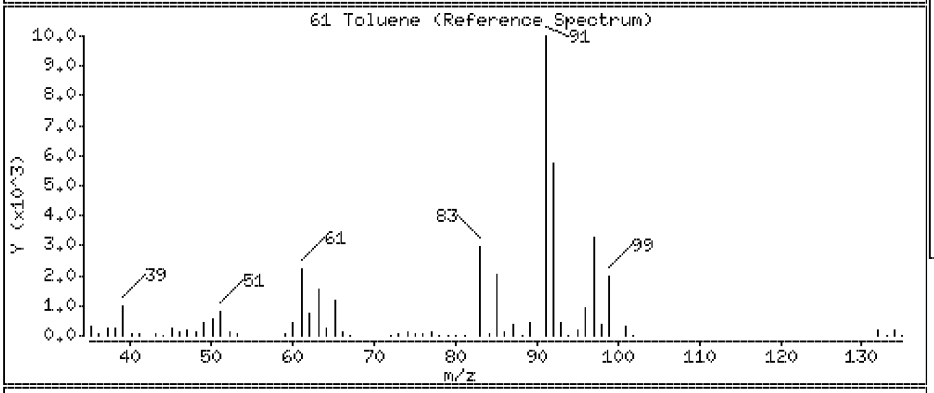
Concentration: 5.25 ppbv

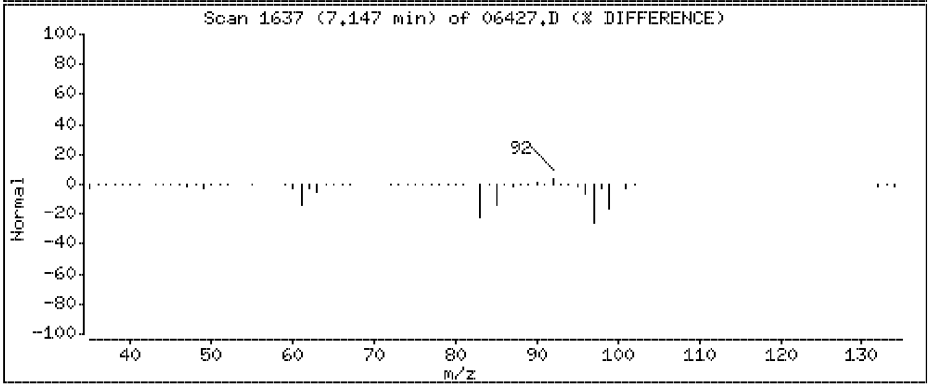












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

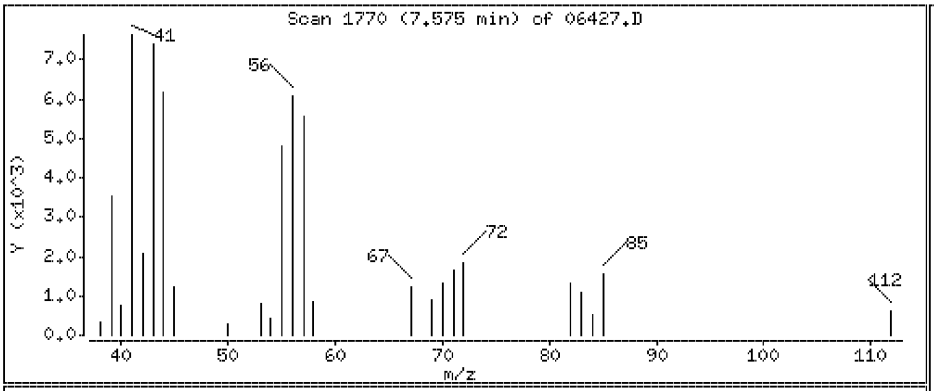
Operator: NCK

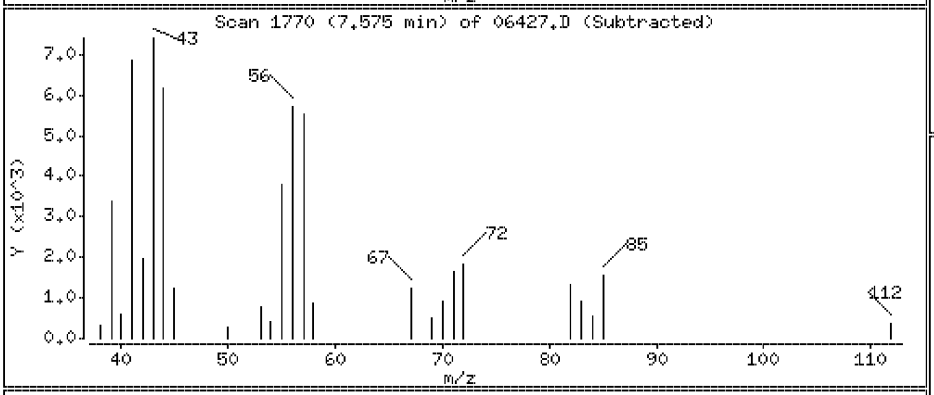
Column phase: J&W DB-5

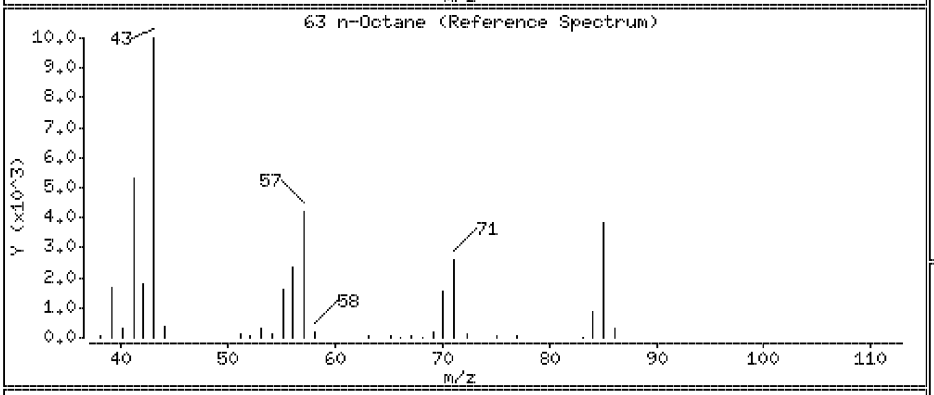
Column diameter: 0.32

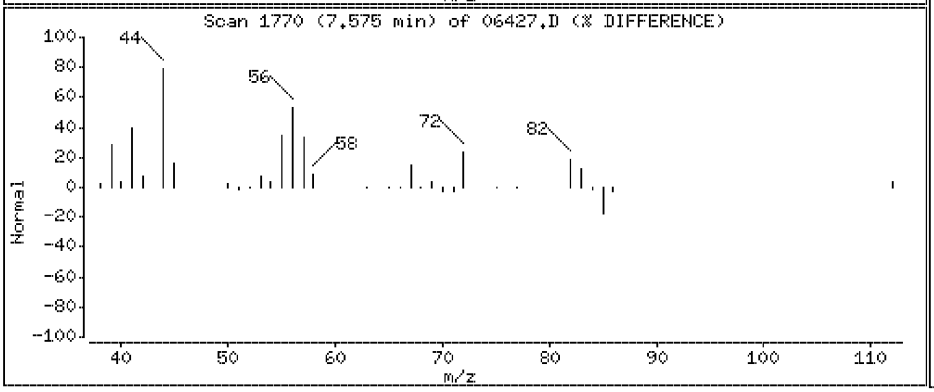
63 n-Octane

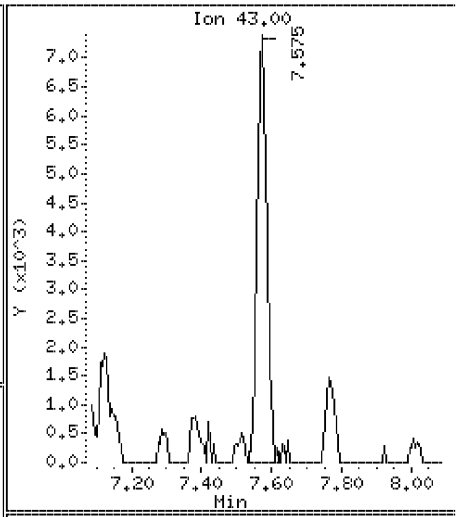
Concentration: 0.988 ppbv

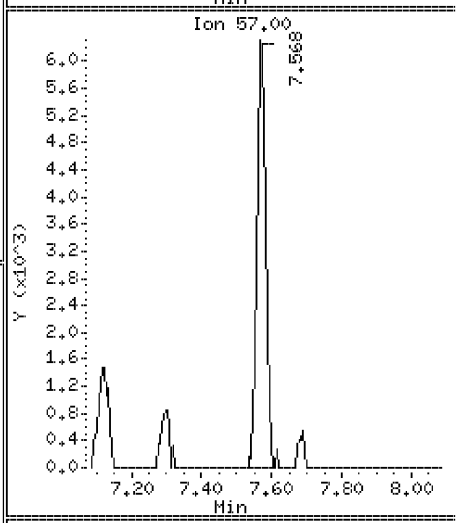


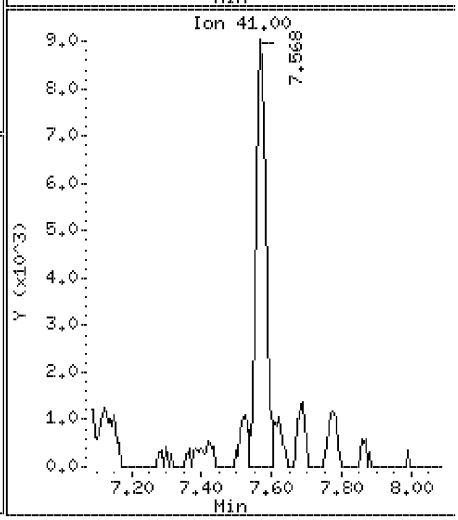












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

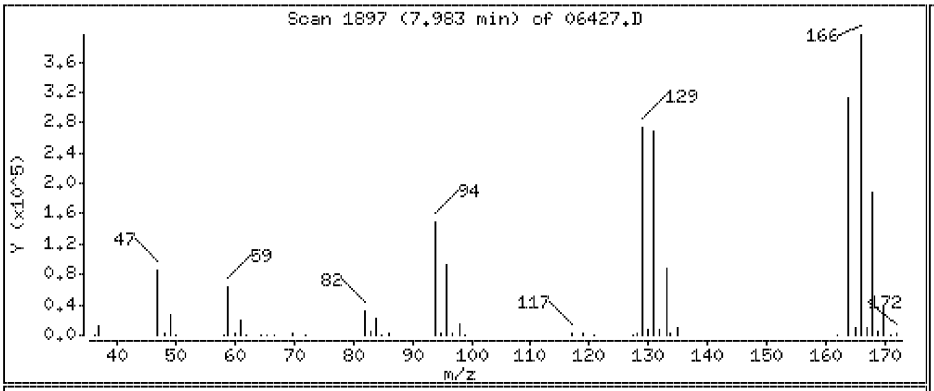
Operator: NCK

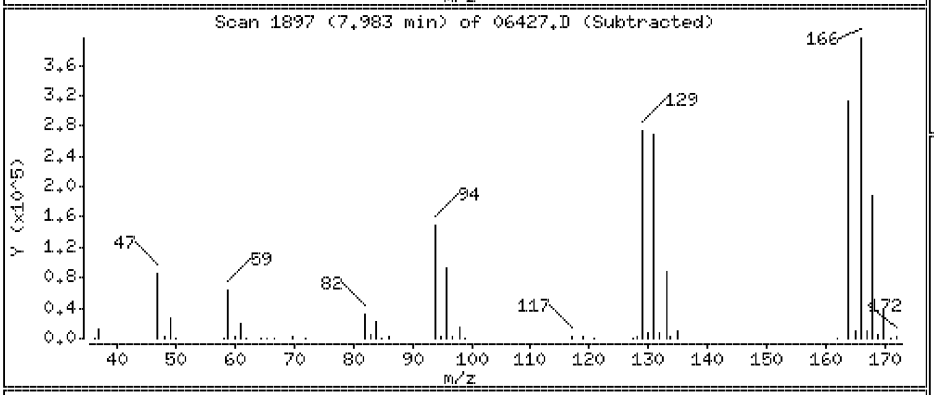
Column phase: J&W DB-5

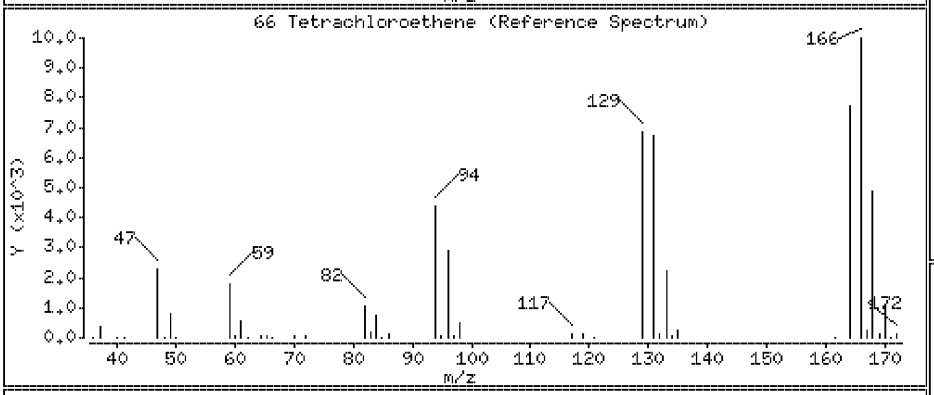
Column diameter: 0.32

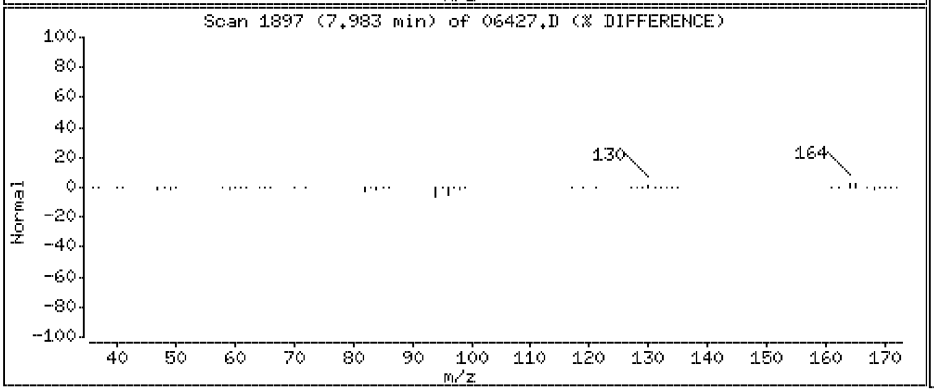
66 Tetrachloroethene

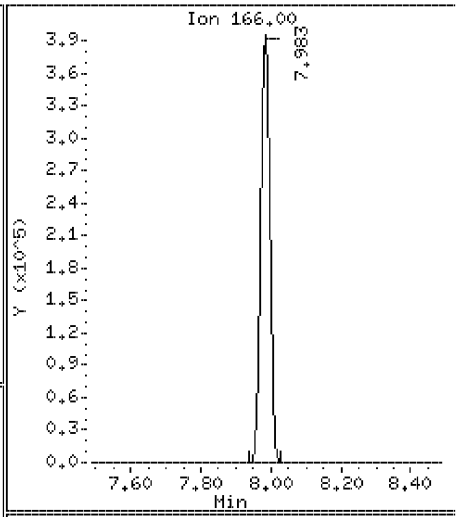
Concentration: 49.2 ppbv

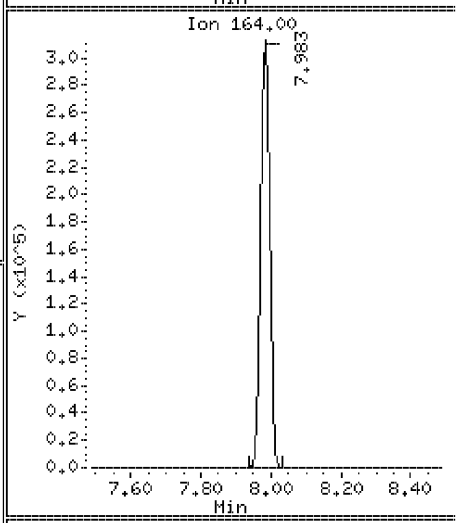


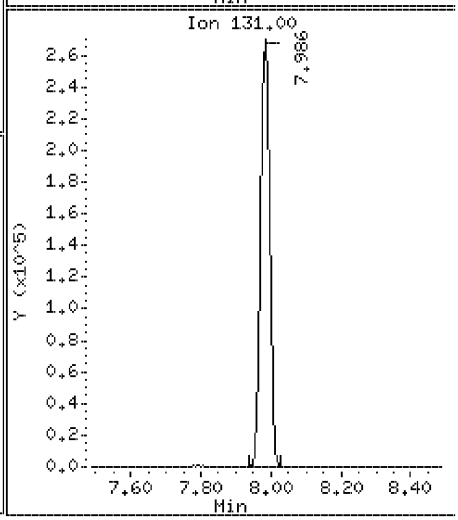












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

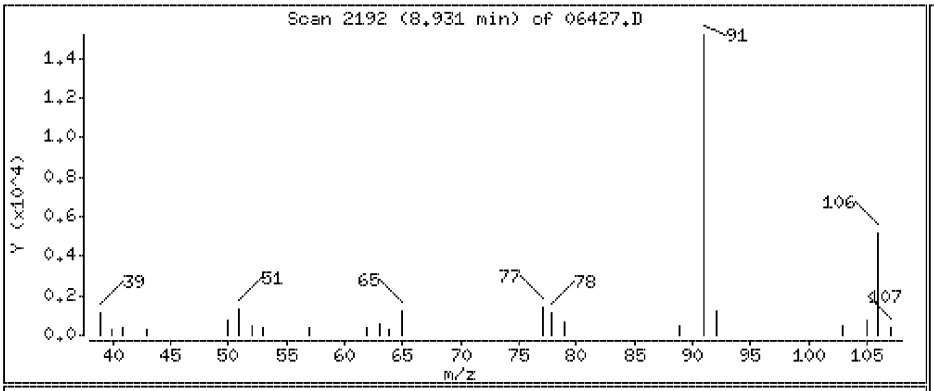
Operator: NCK

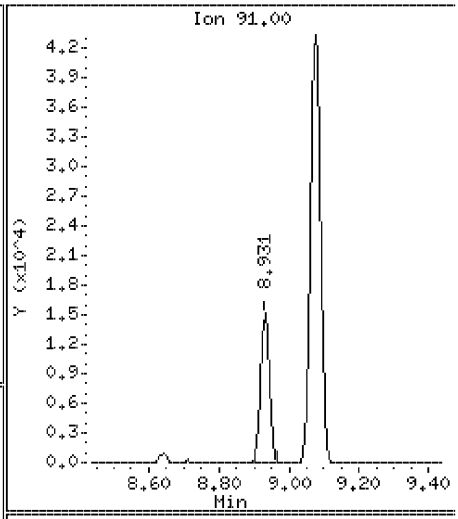
Column phase: J&W DB-5

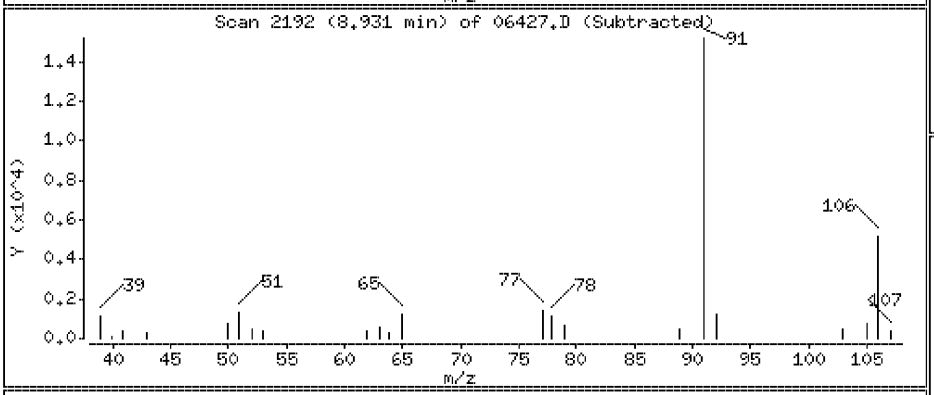
Column diameter: 0.32

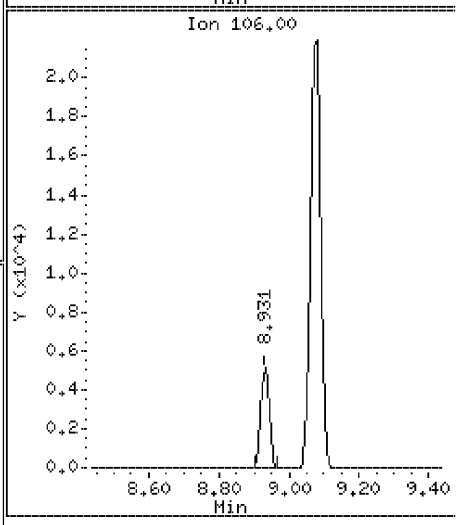
69 Ethyl Benzene

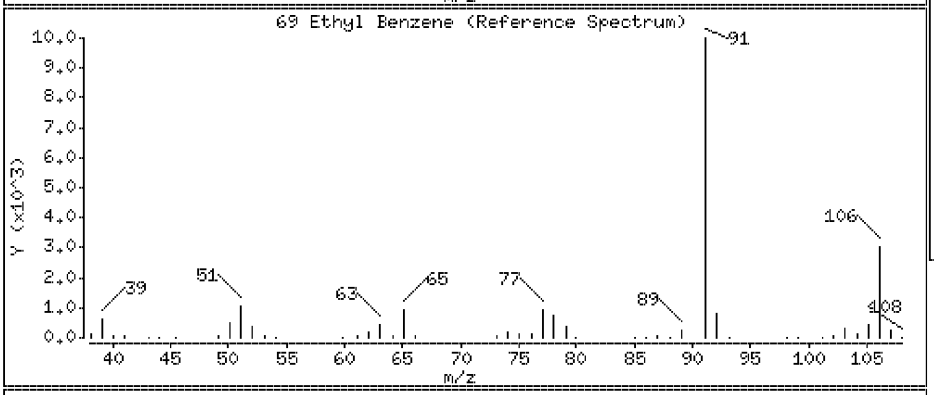
Concentration: 0.839 ppbv

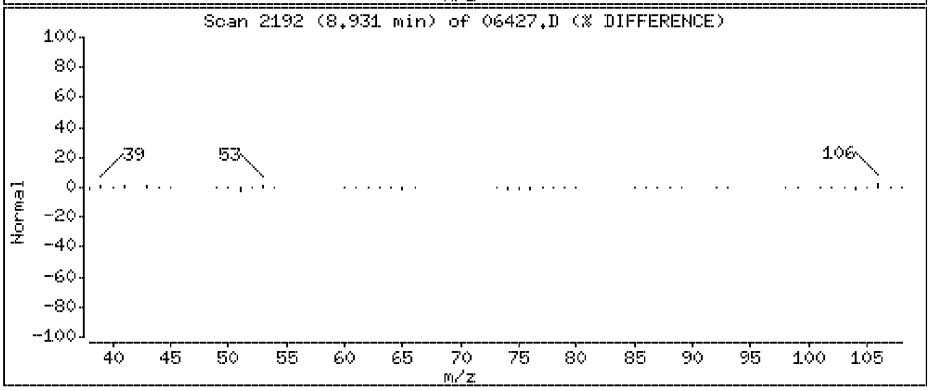












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

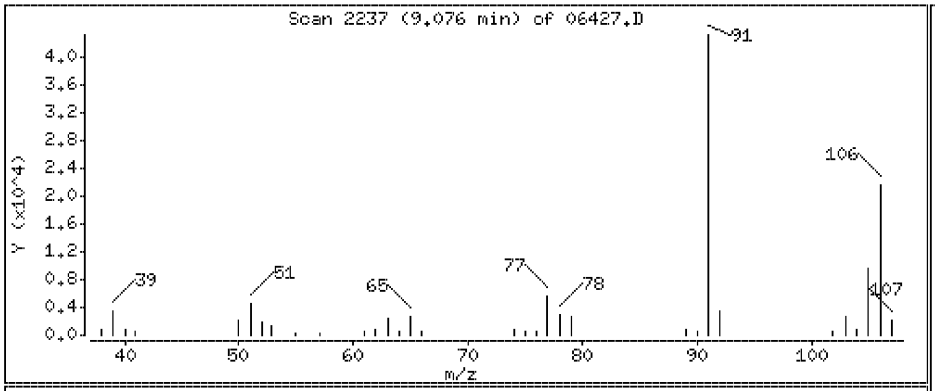
Operator: NCK

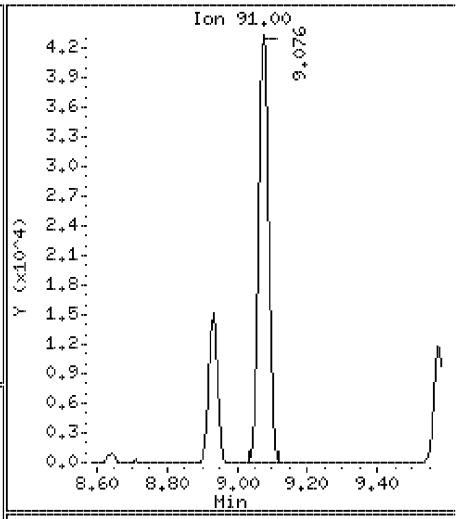
Column phase: J&W DB-5

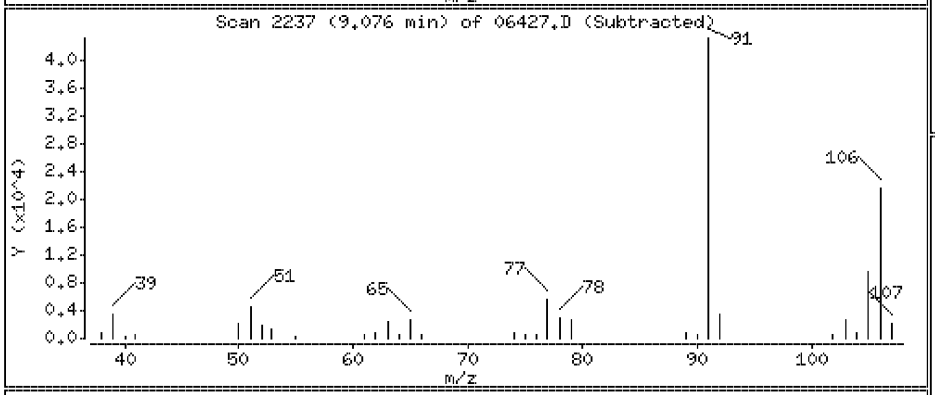
Column diameter: 0.32

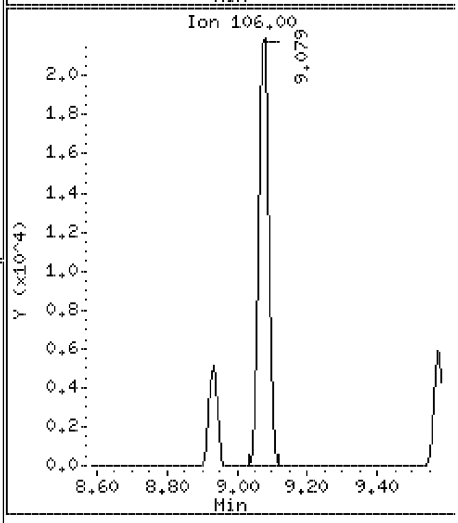
70 m&p-Xylene

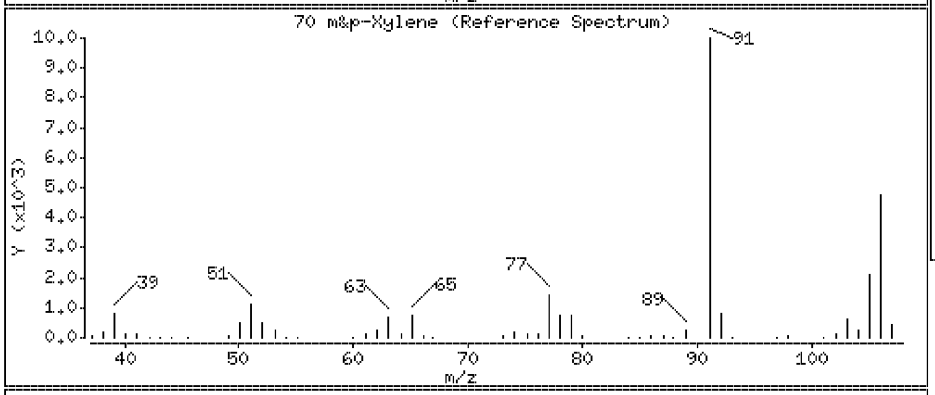
Concentration: 3.54 ppbv

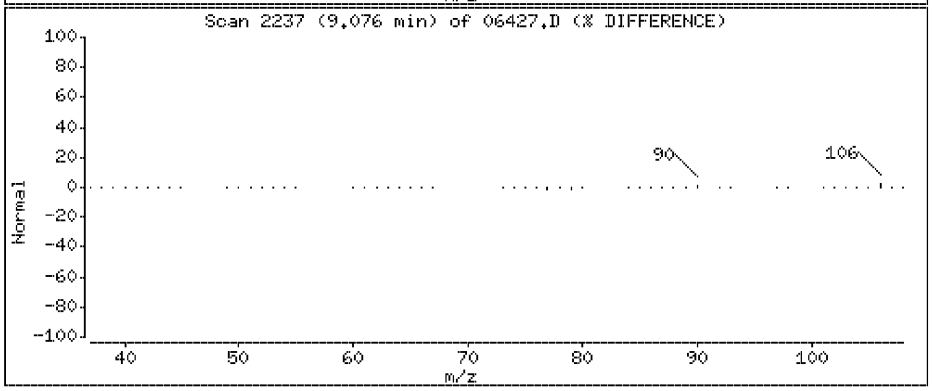












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

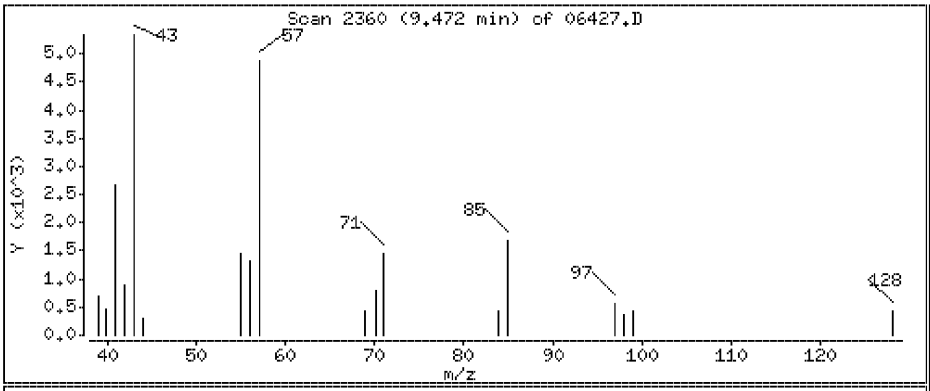
Operator: NCK

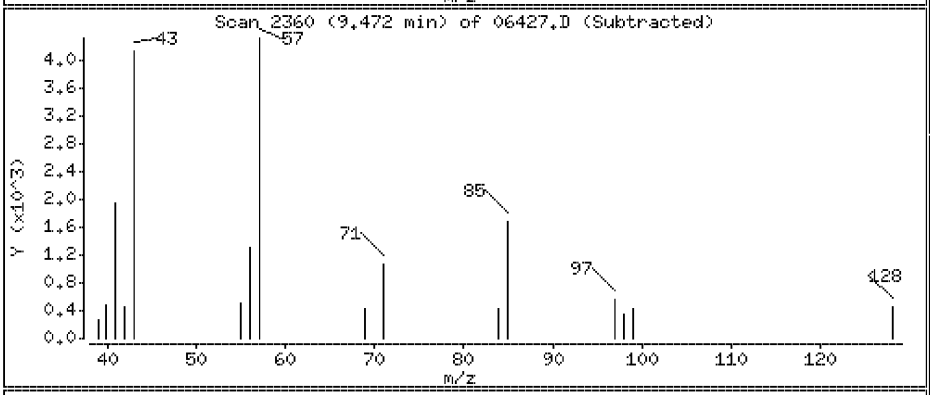
Column phase: J&W DB-5

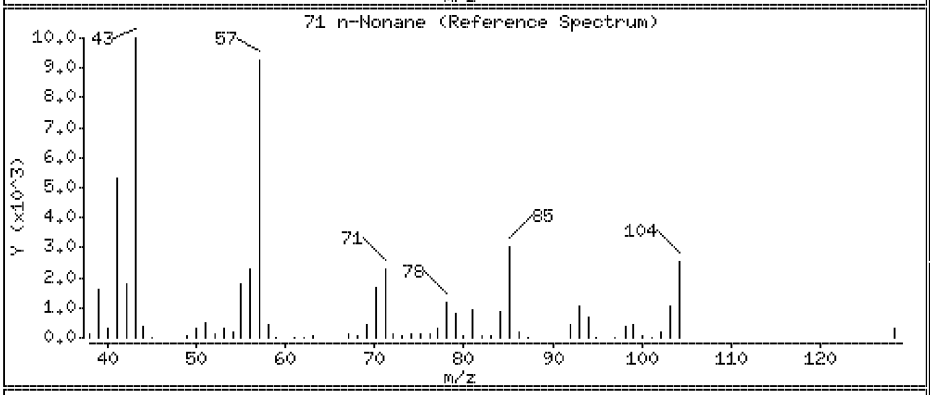
Column diameter: 0.32

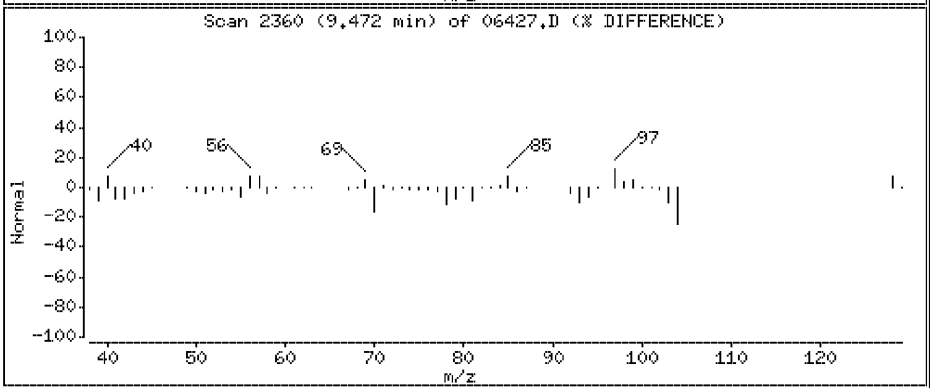
71 n-Nonane

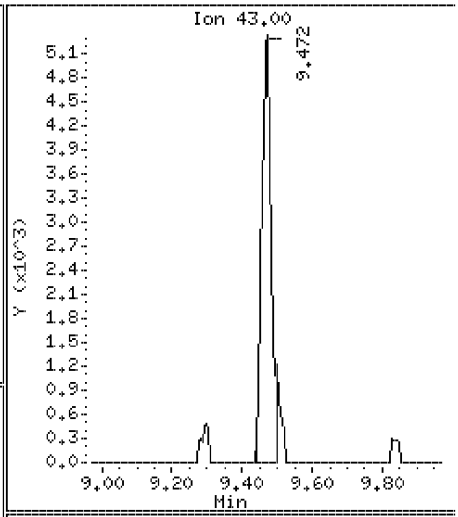
Concentration: 0.762 ppbv

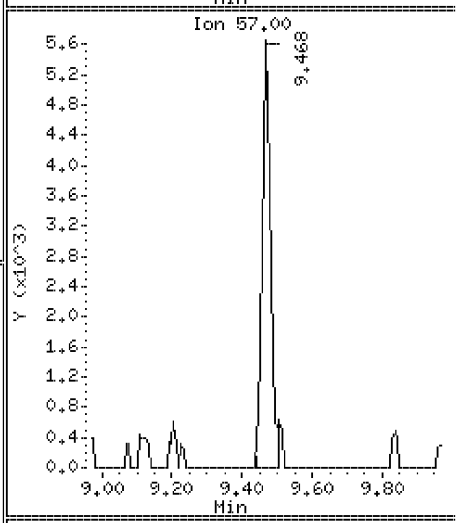


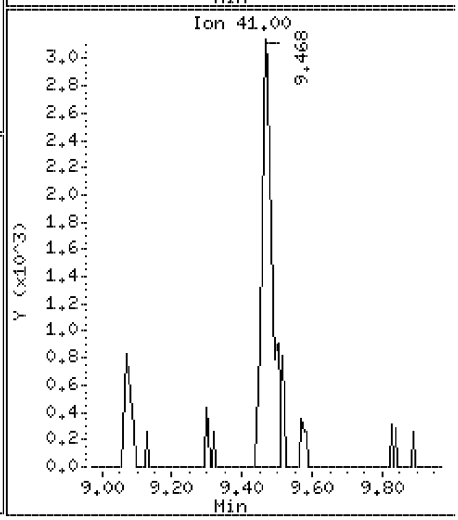












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

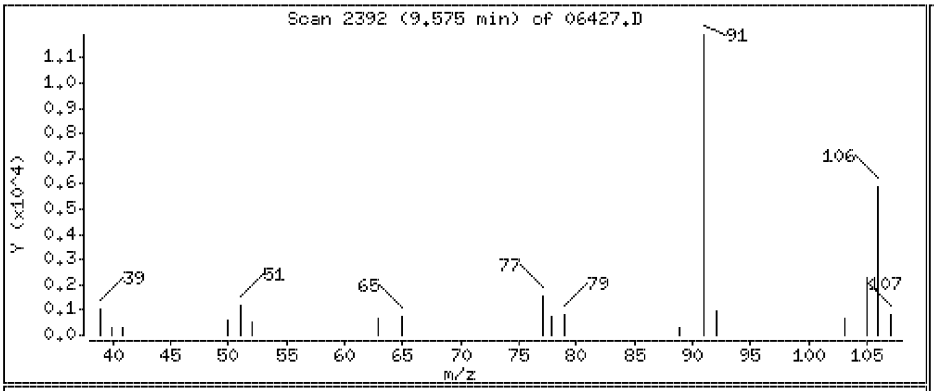
Operator: NCK

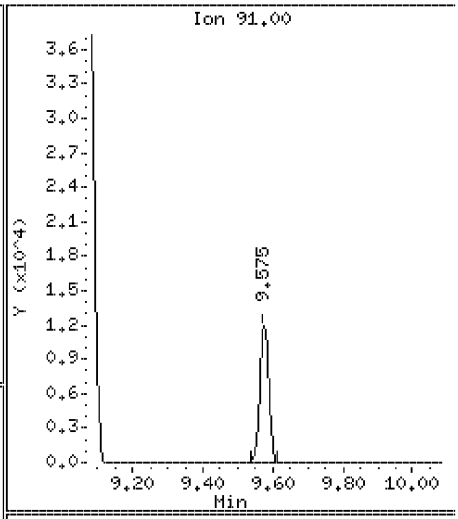
Column phase: J&W DB-5

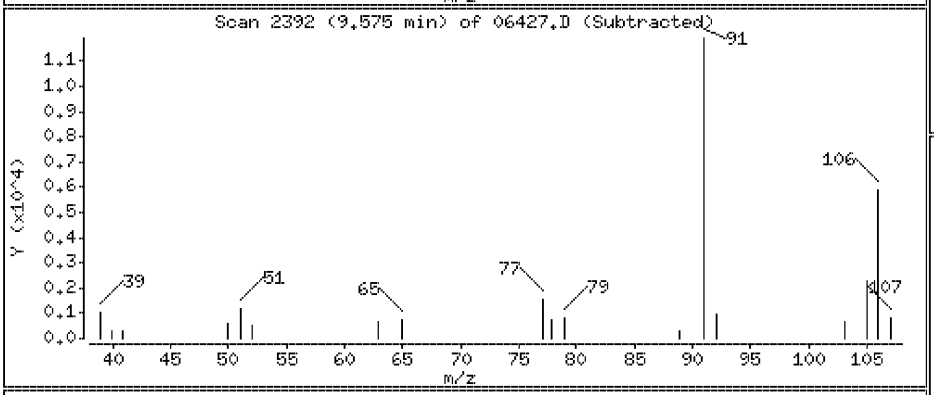
Column diameter: 0.32

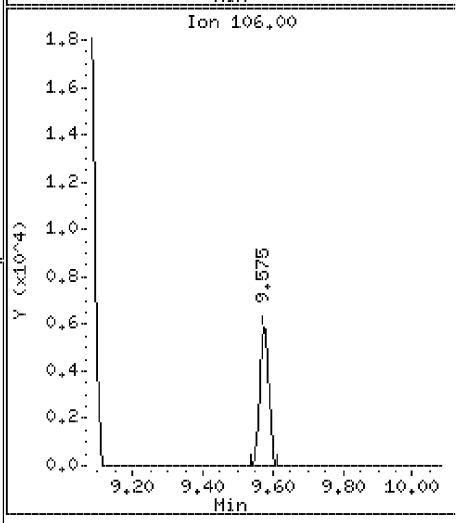
74 o-Xylene

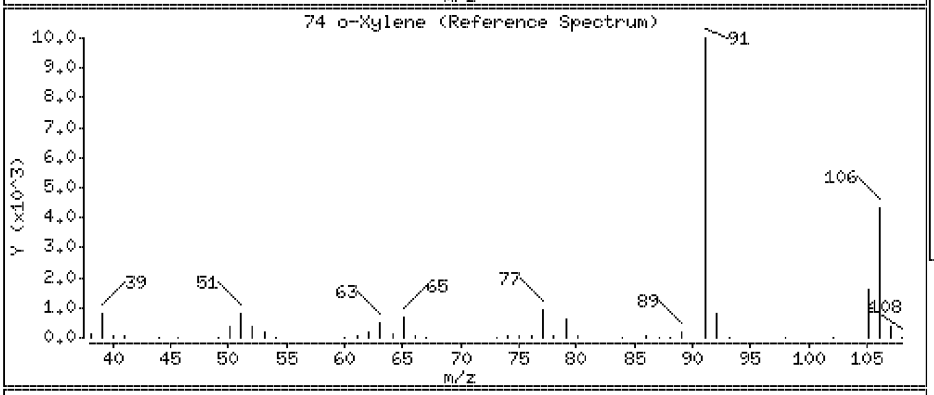
Concentration: 0.851 ppbv

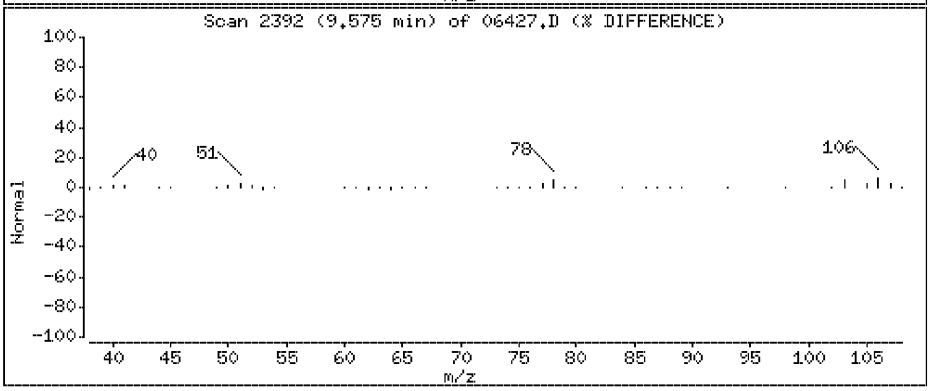












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

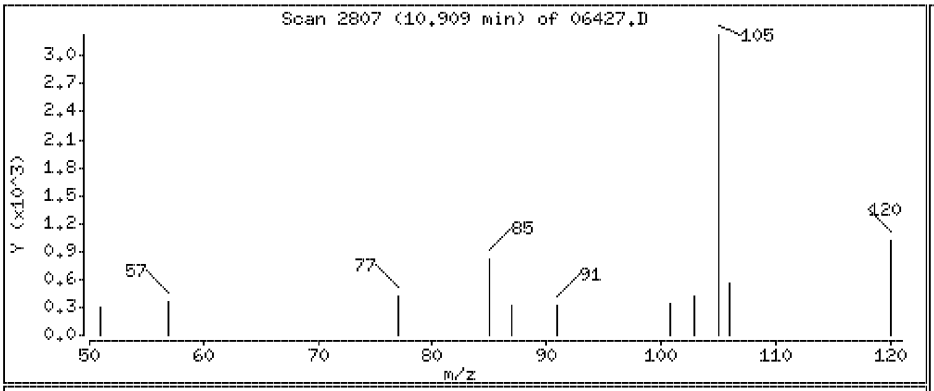
Operator: NCK

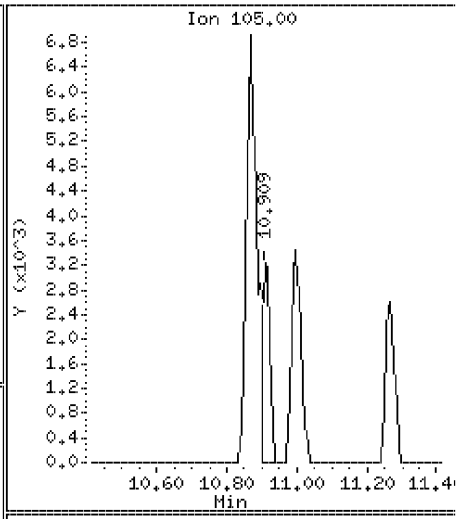
Column phase: J&W DB-5

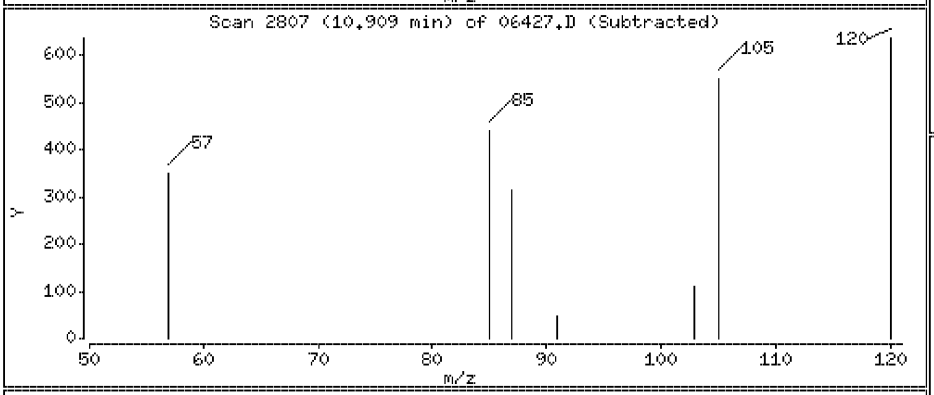
Column diameter: 0.32

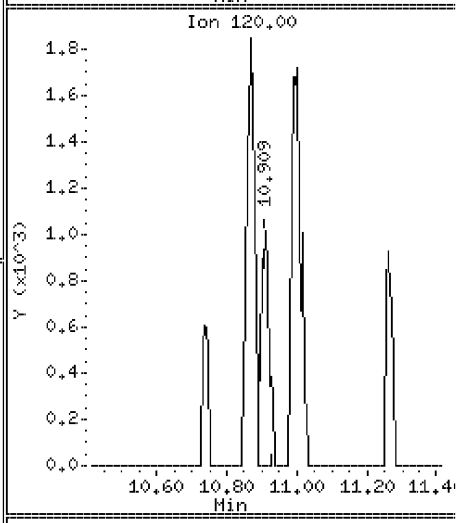
78 4-Ethyltoluene

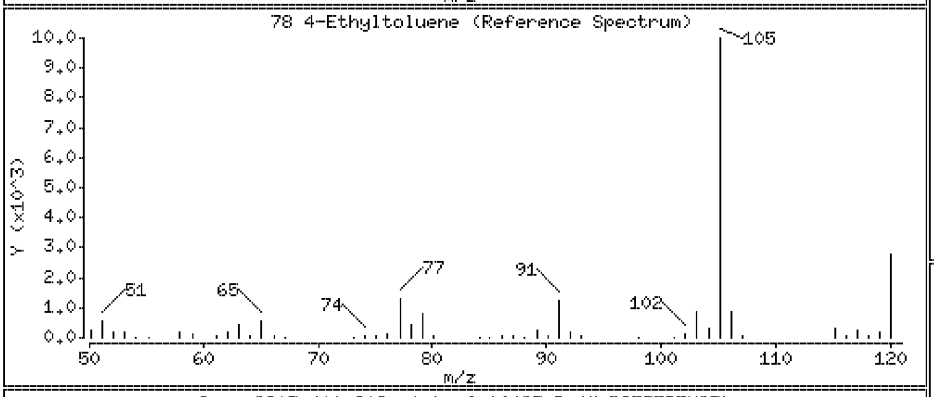
Concentration: 0.326 ppbv

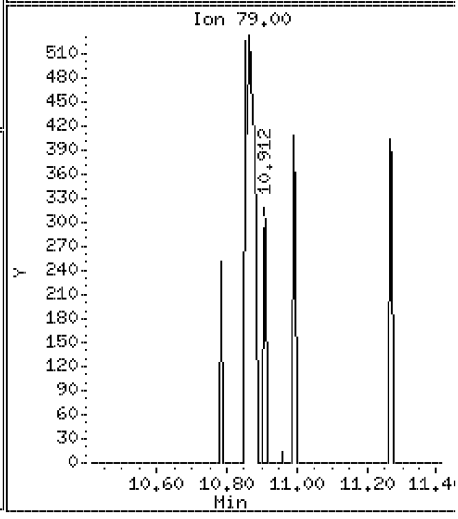


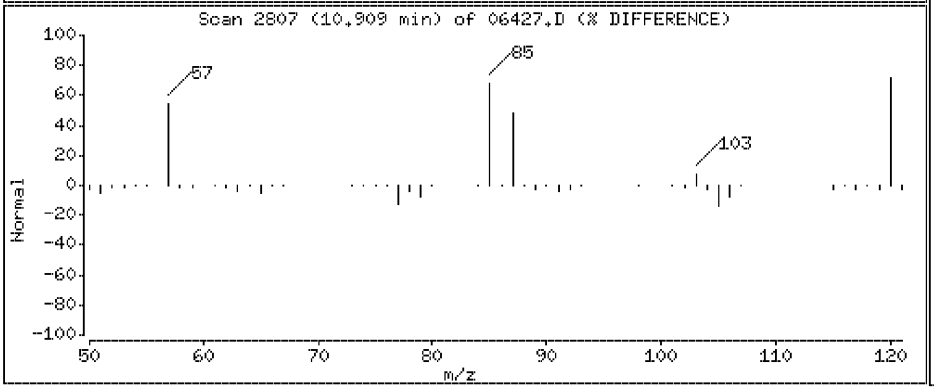












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

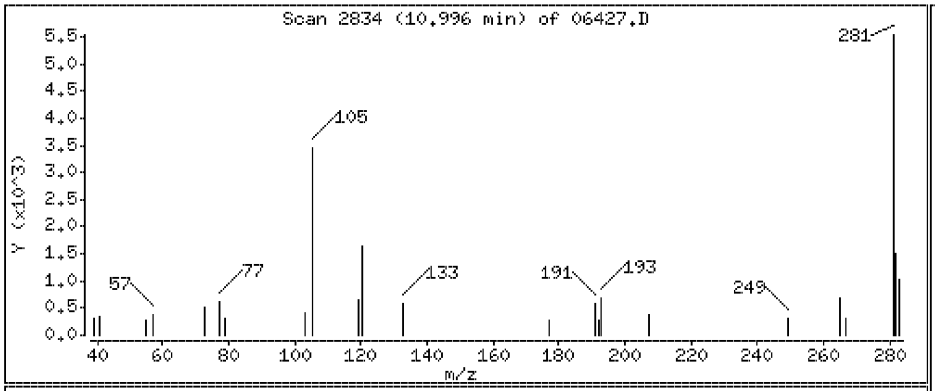
Operator: NCK

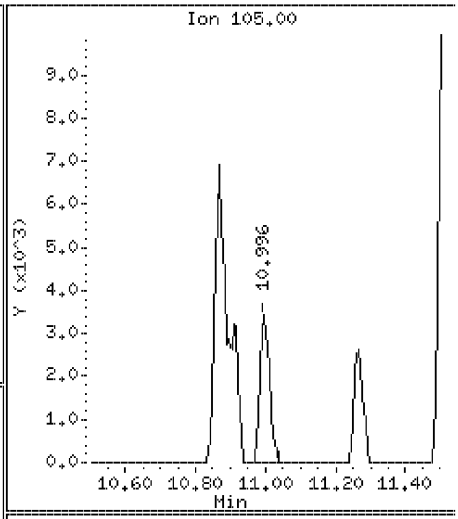
Column phase: J&W DB-5

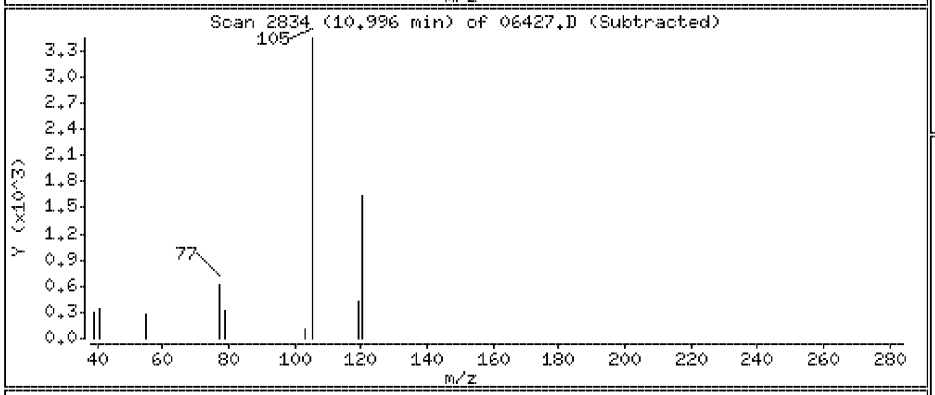
Column diameter: 0.32

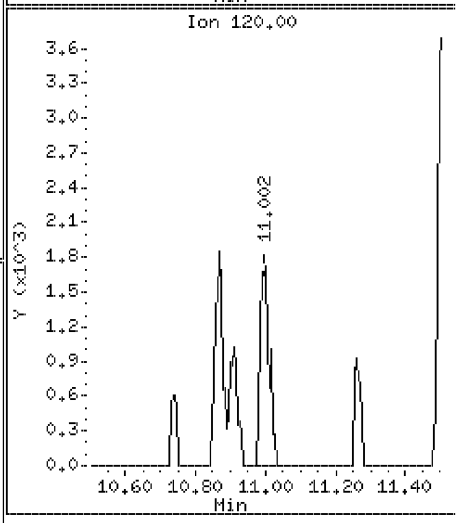
79 1,3,5-Trimethylbenzene

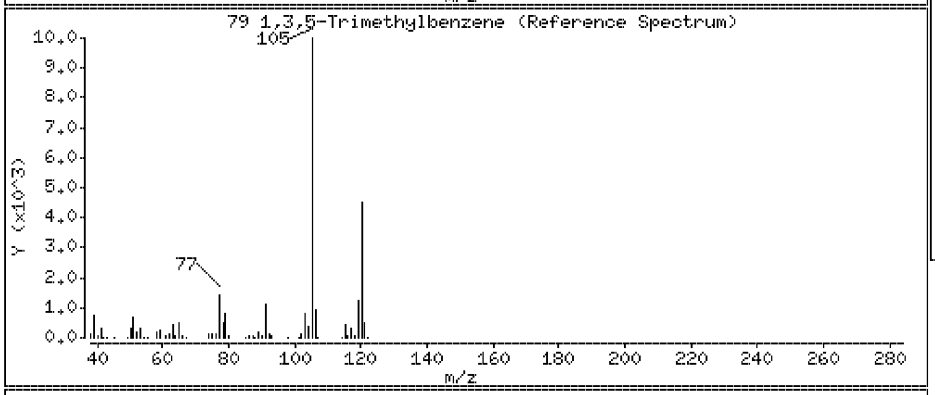
Concentration: 0.250 ppbv

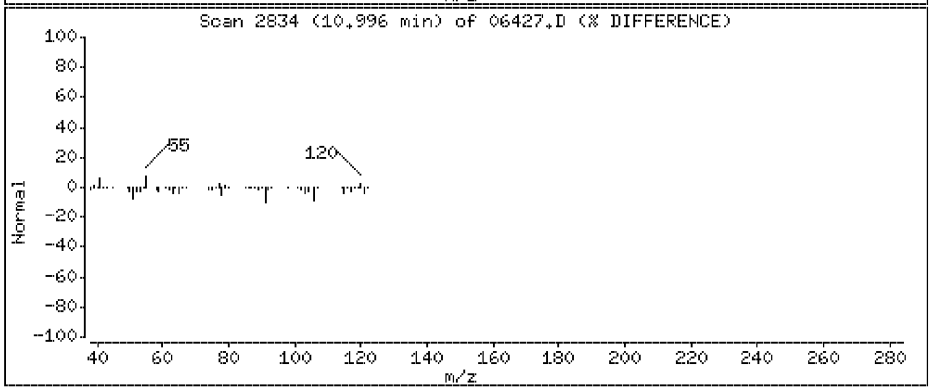












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

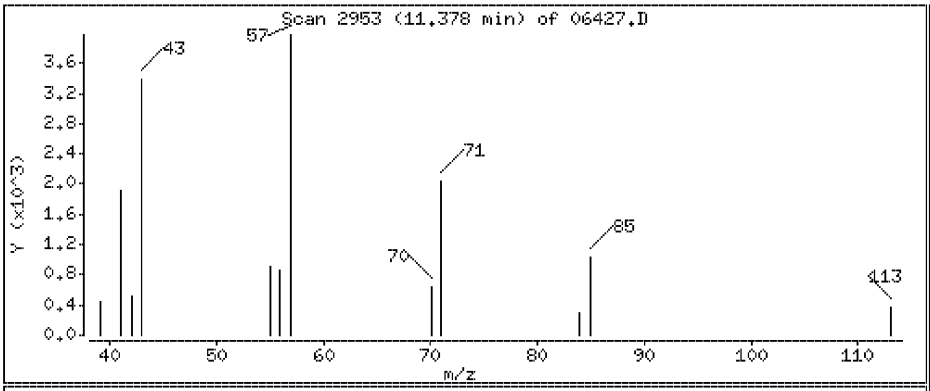
Operator: NCK

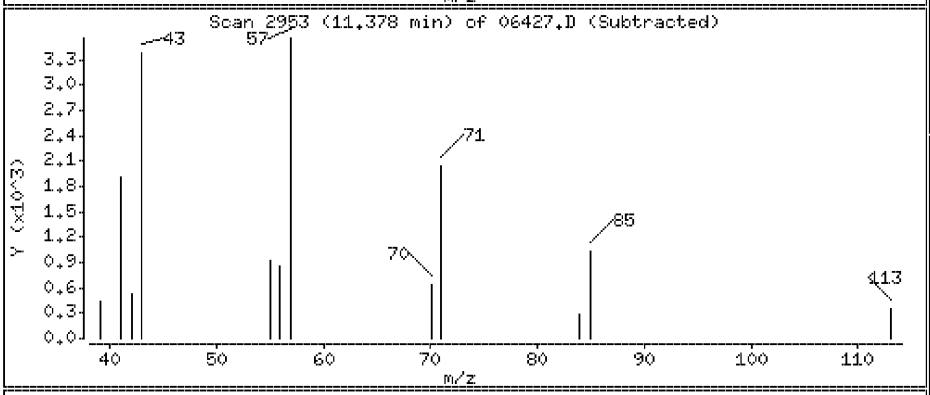
Column phase: J&W DB-5

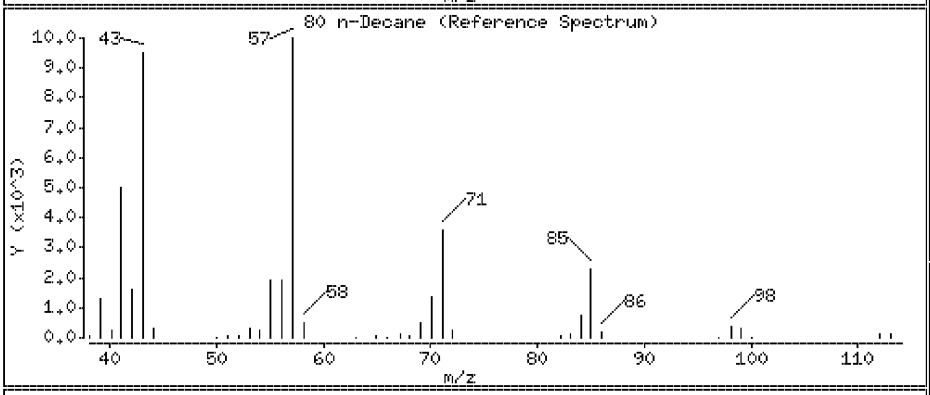
Column diameter: 0.32

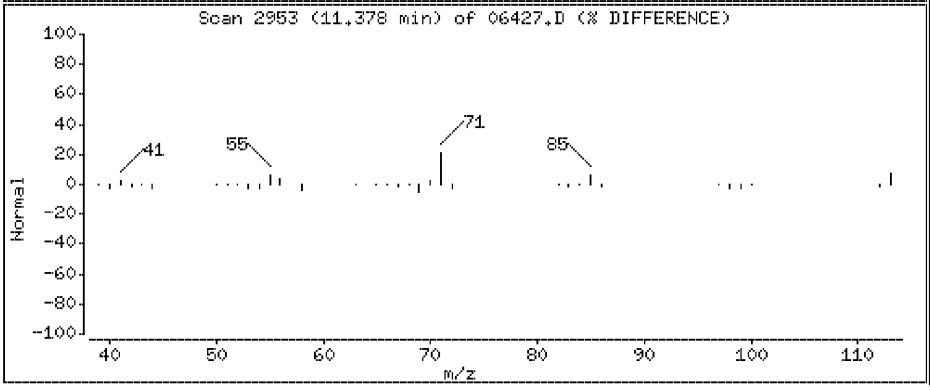
80 n-Decane

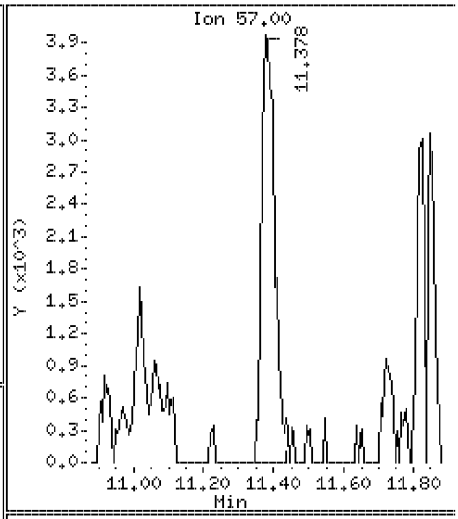
Concentration: 1.09 ppbv

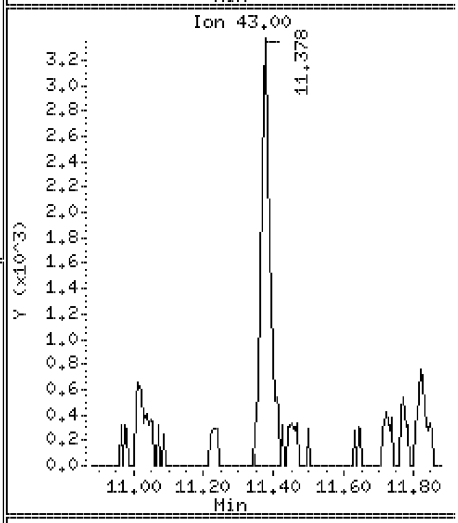


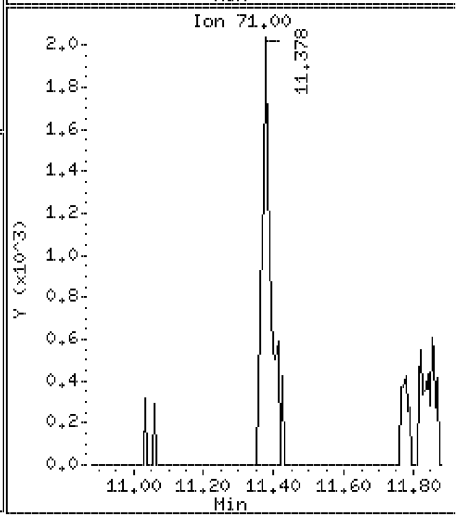












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

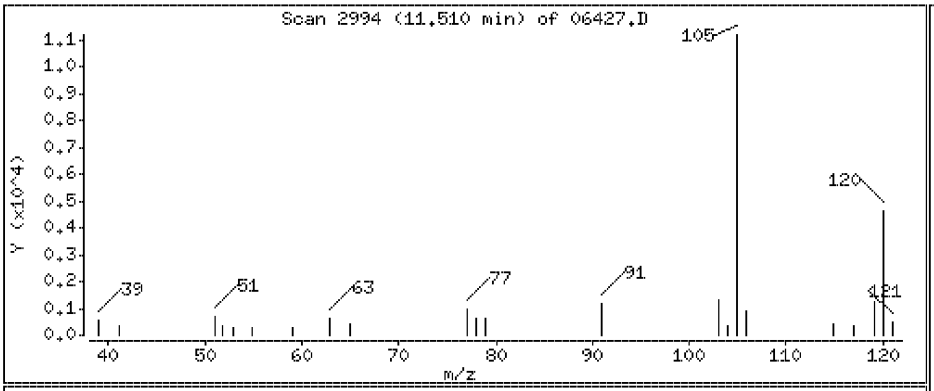
Operator: NCK

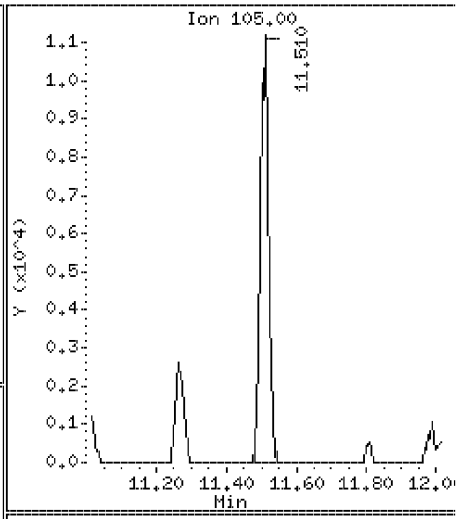
Column phase: J&W DB-5

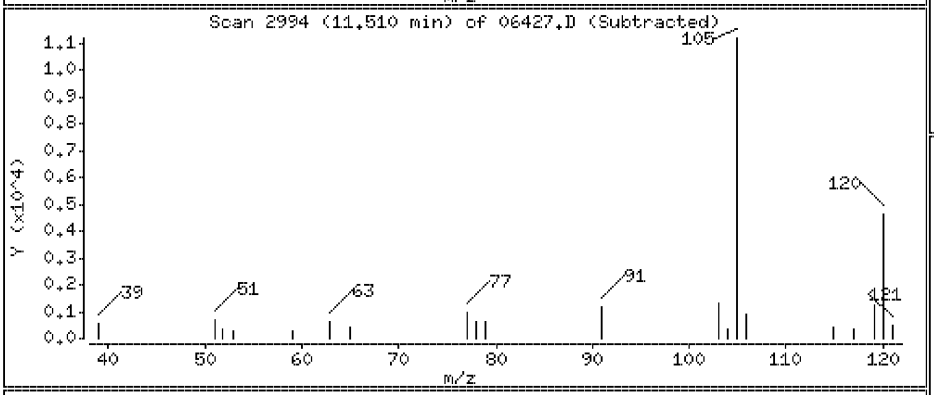
Column diameter: 0.32

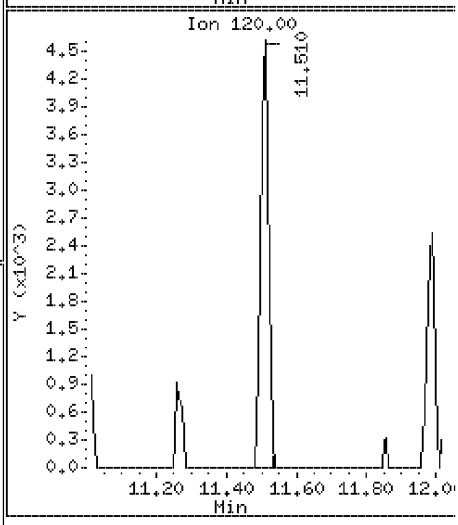
82 1,2,4-Trimethylbenzene

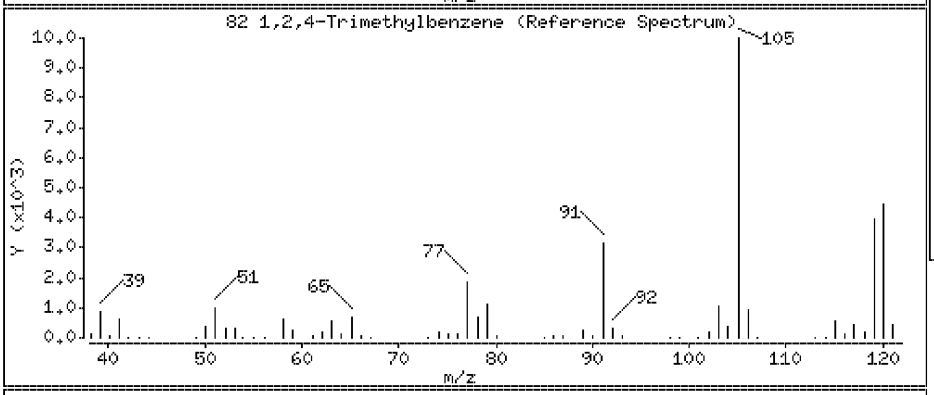
Concentration: 0.692 ppbv

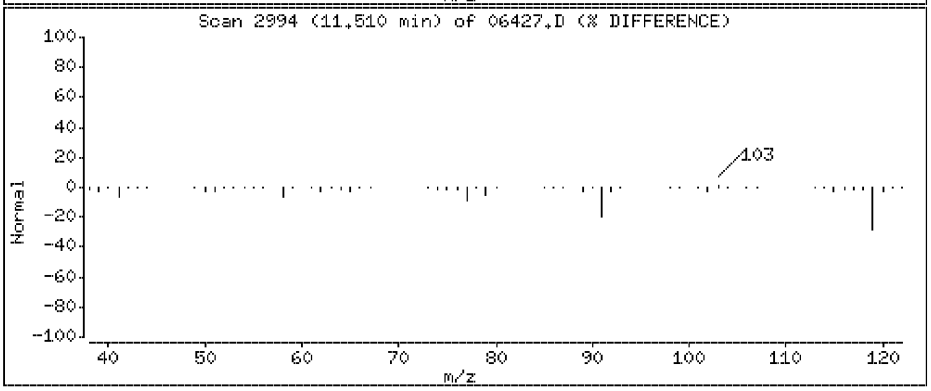












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

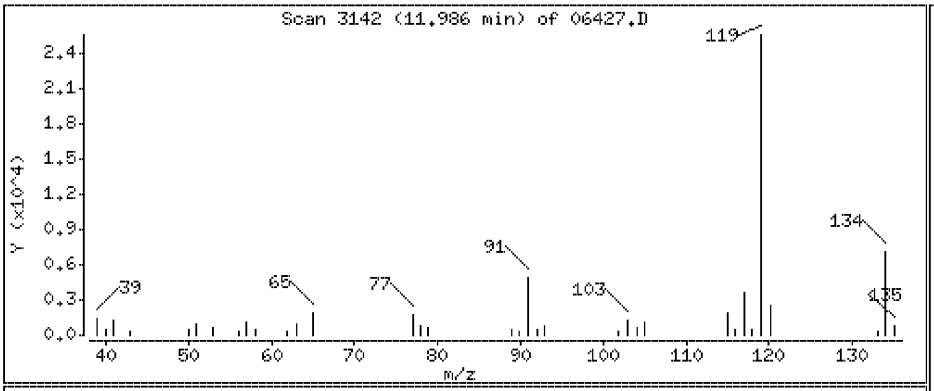
Operator: NCK

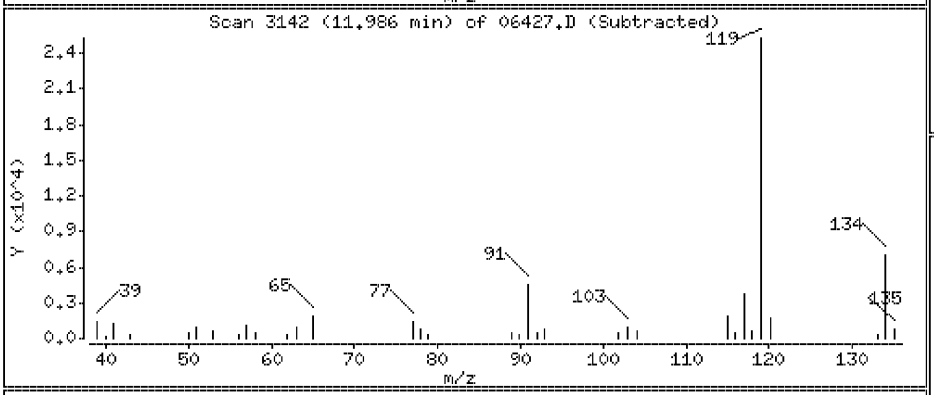
Column phase: J&W DB-5

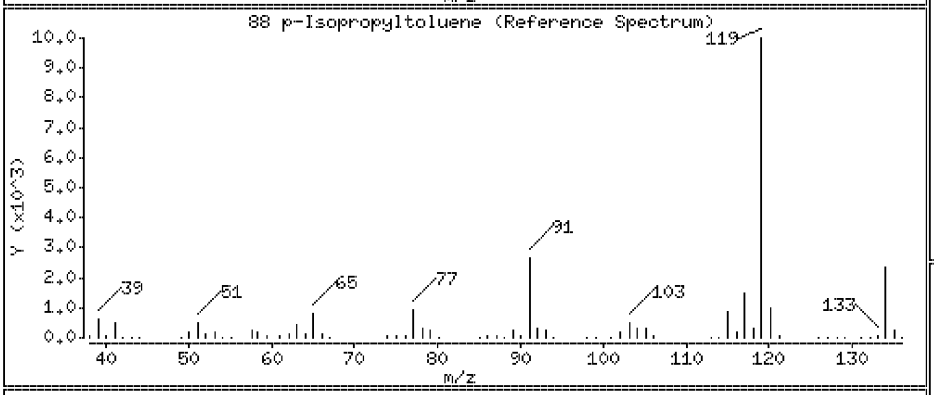
Column diameter: 0.32

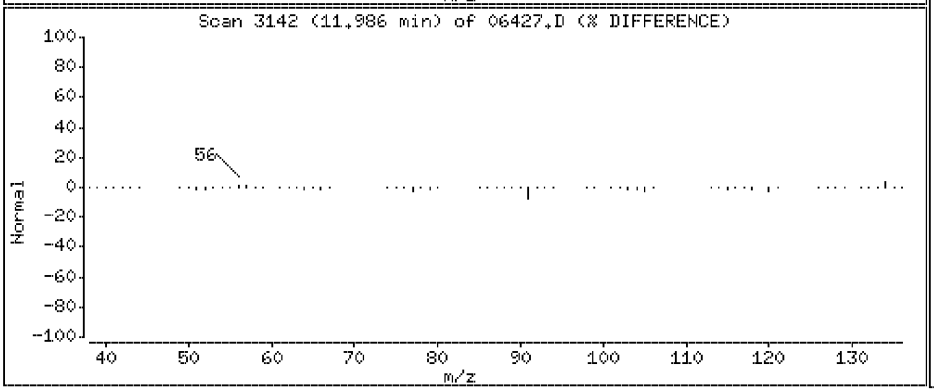
88 p-Isopropyltoluene

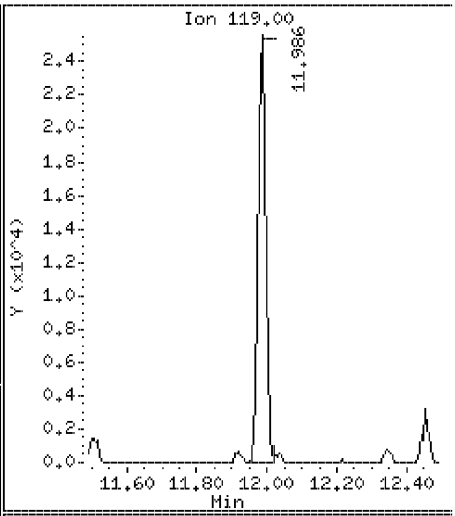
Concentration: 1.13 ppbv

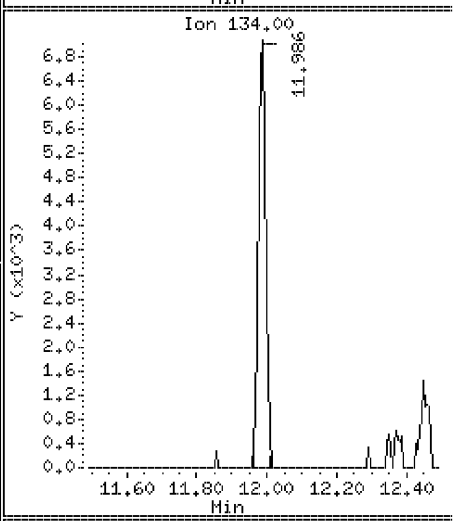


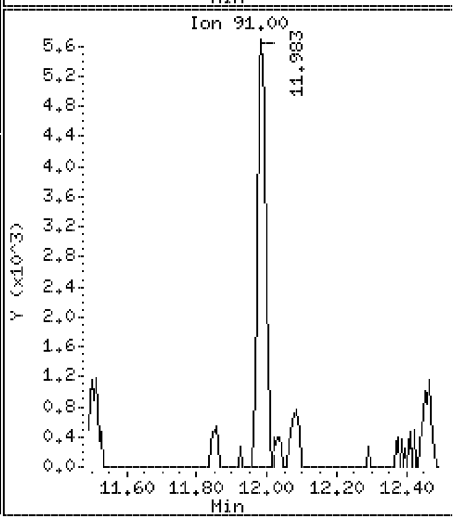












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

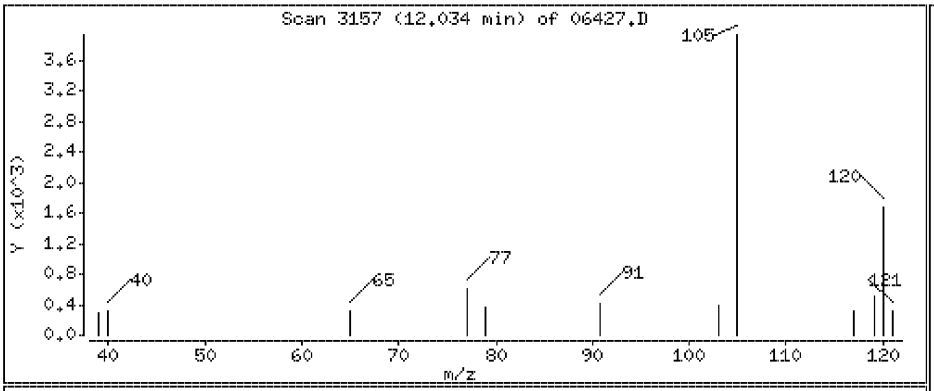
Operator: NCK

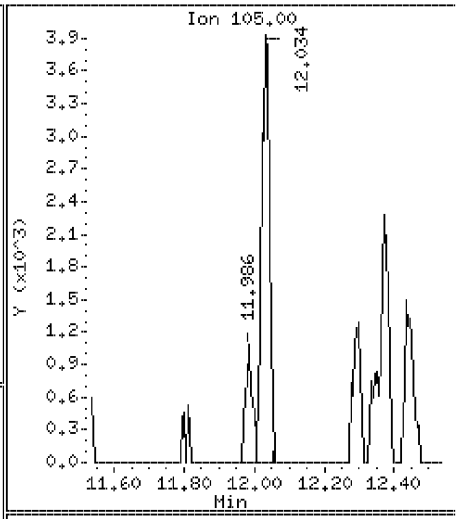
Column phase: J&W DB-5

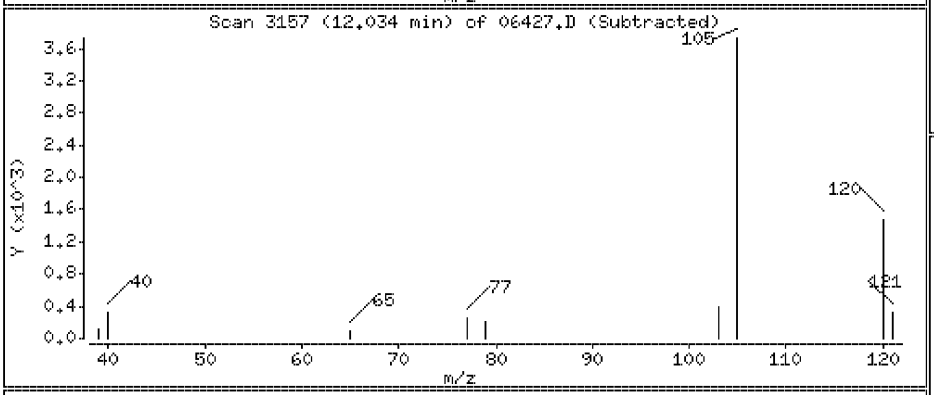
Column diameter: 0.32

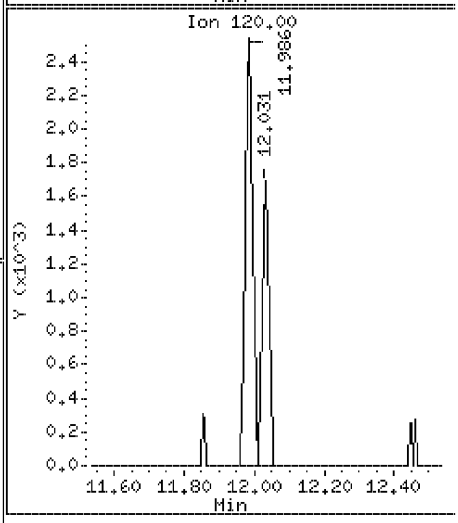
89 1,2,3-Trimethylbenzene

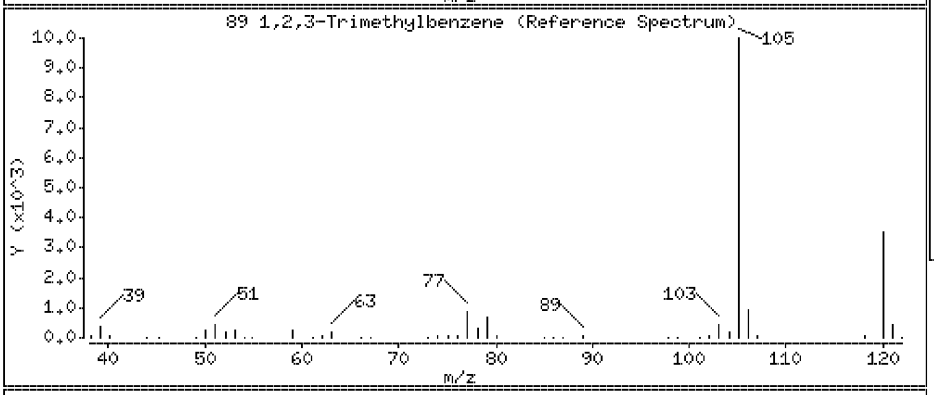
Concentration: 0.246 ppbv

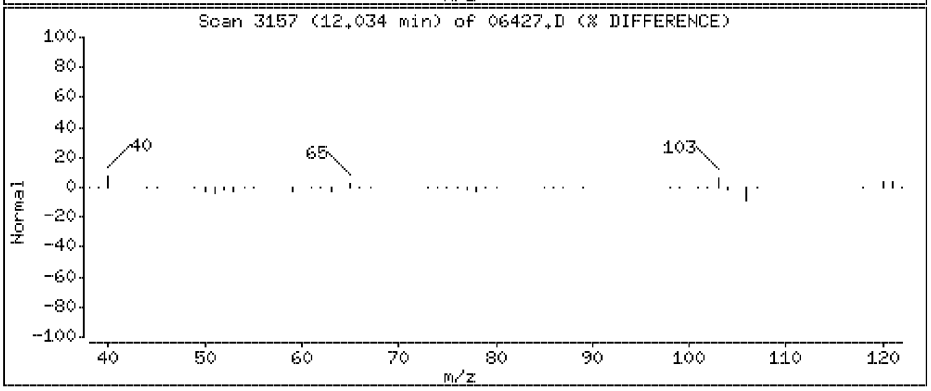












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06427.D

Date : 05-MAR-2017 22:37

Client ID:

Instrument: 10airB.i

Sample Info:

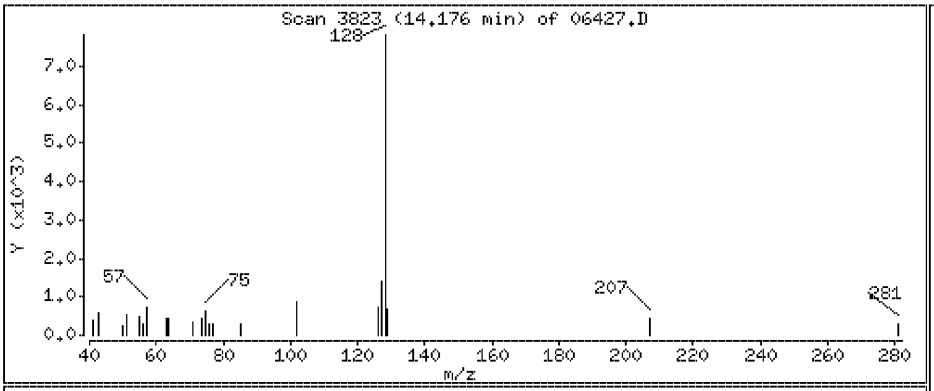
Operator: NCK

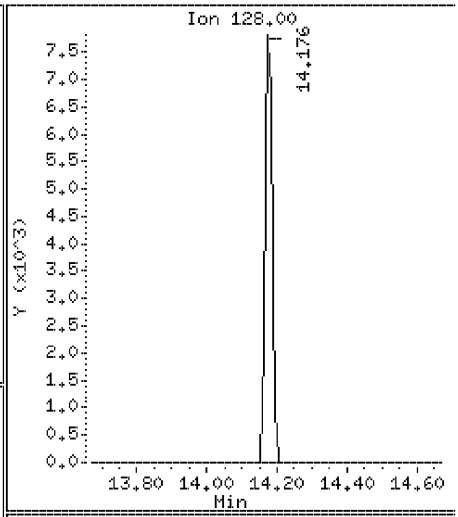
Column phase: J&W DB-5

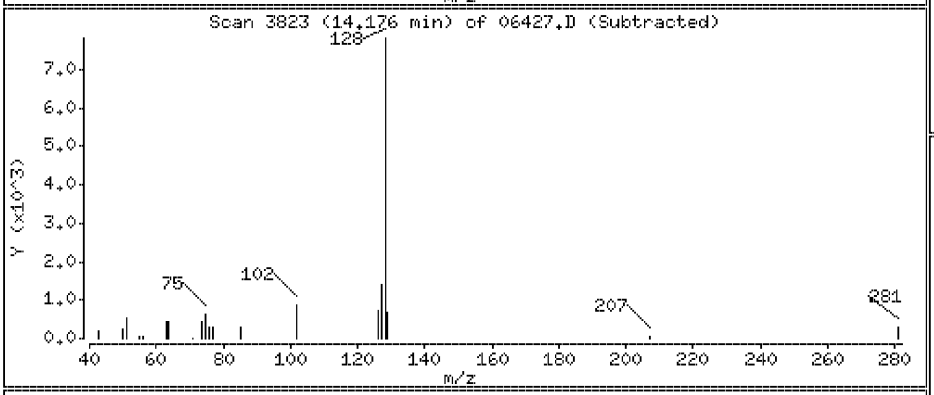
Column diameter: 0.32

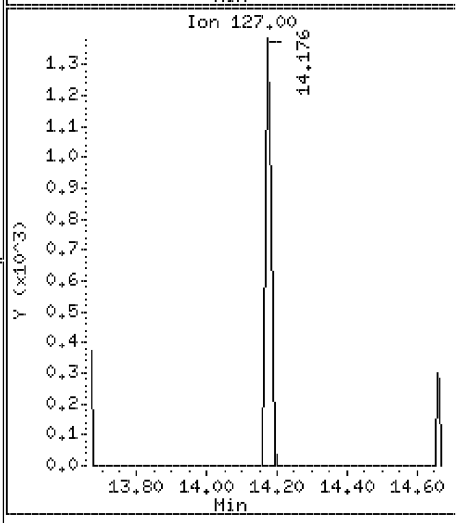
94 Naphthalene

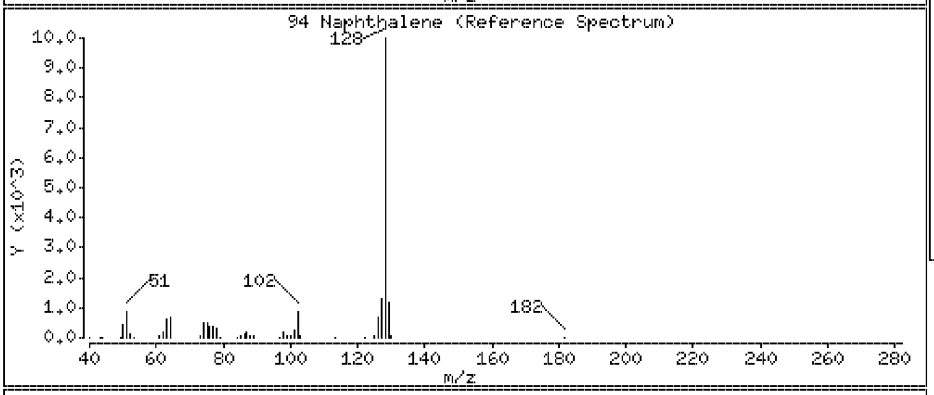
Concentration: 1.28 ppbv

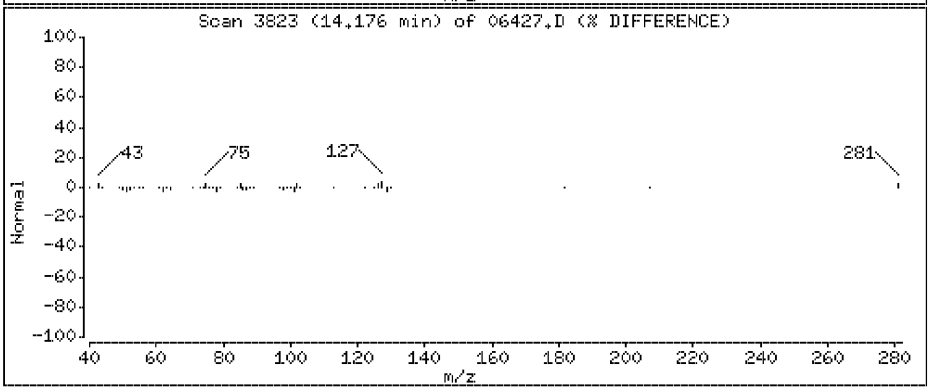






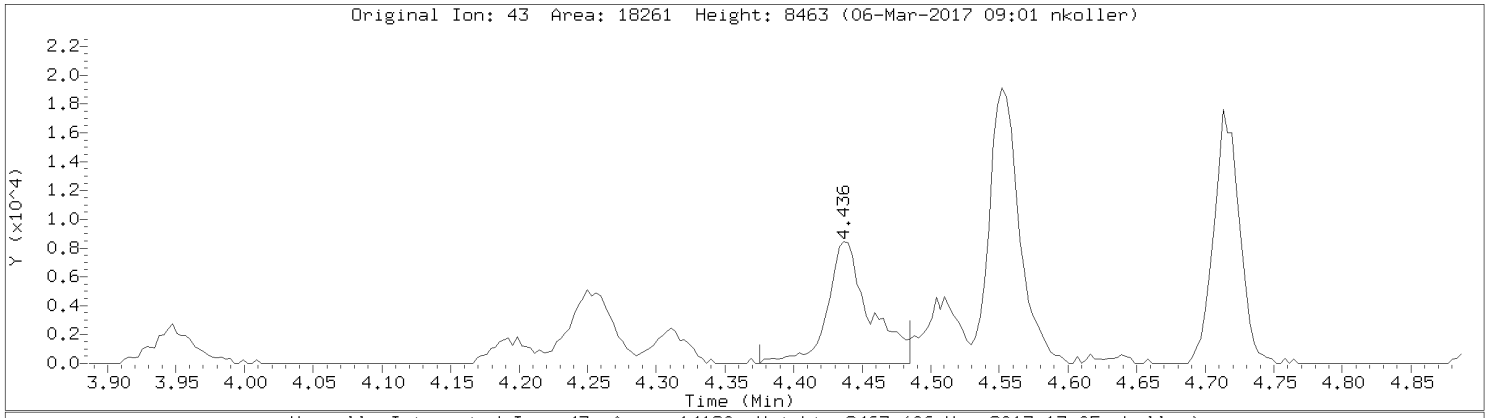


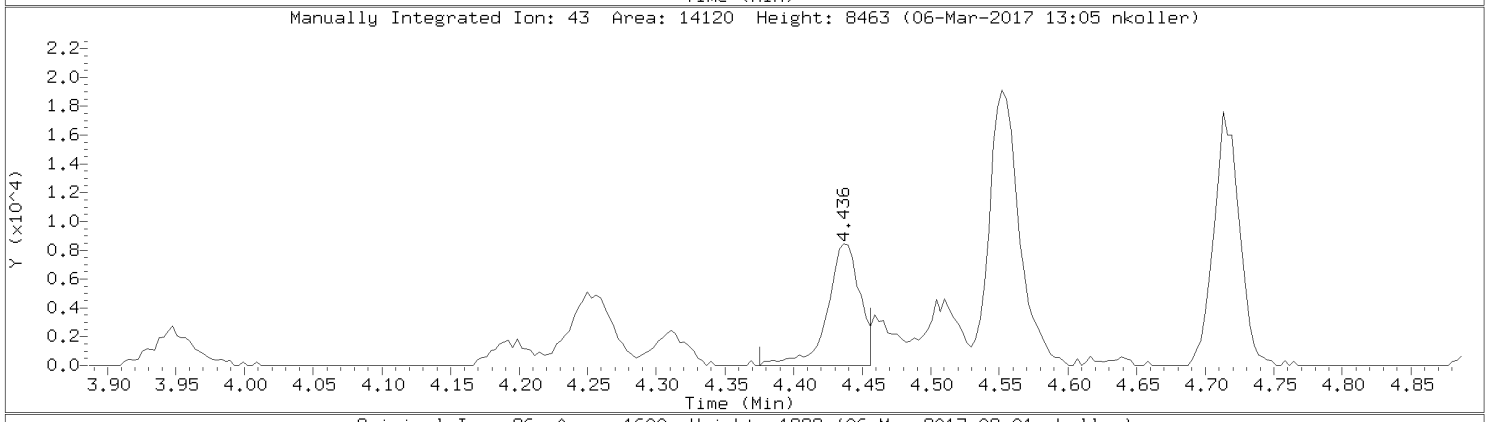


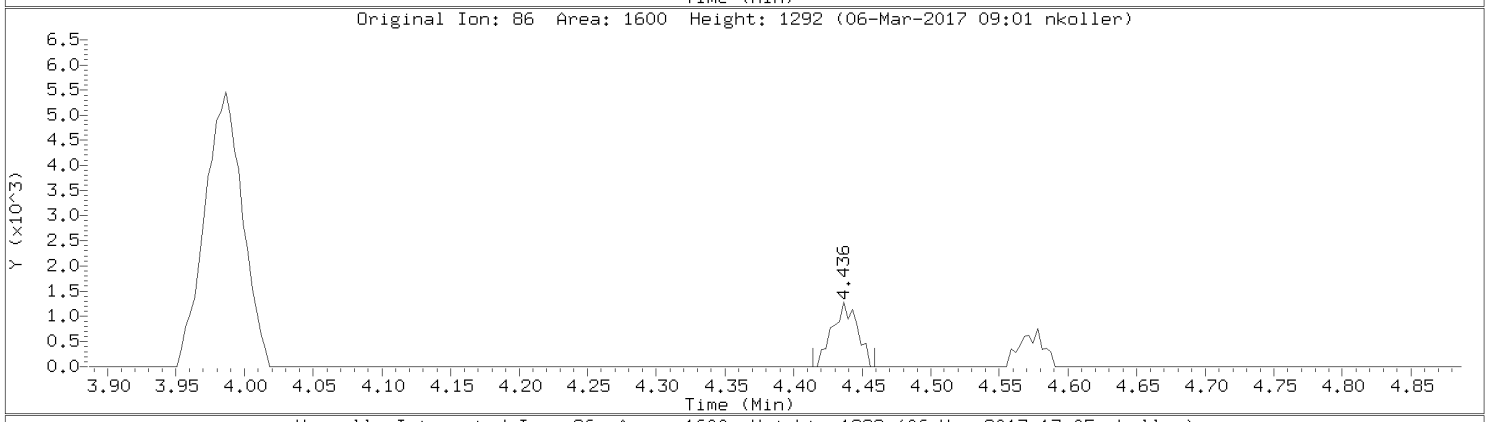


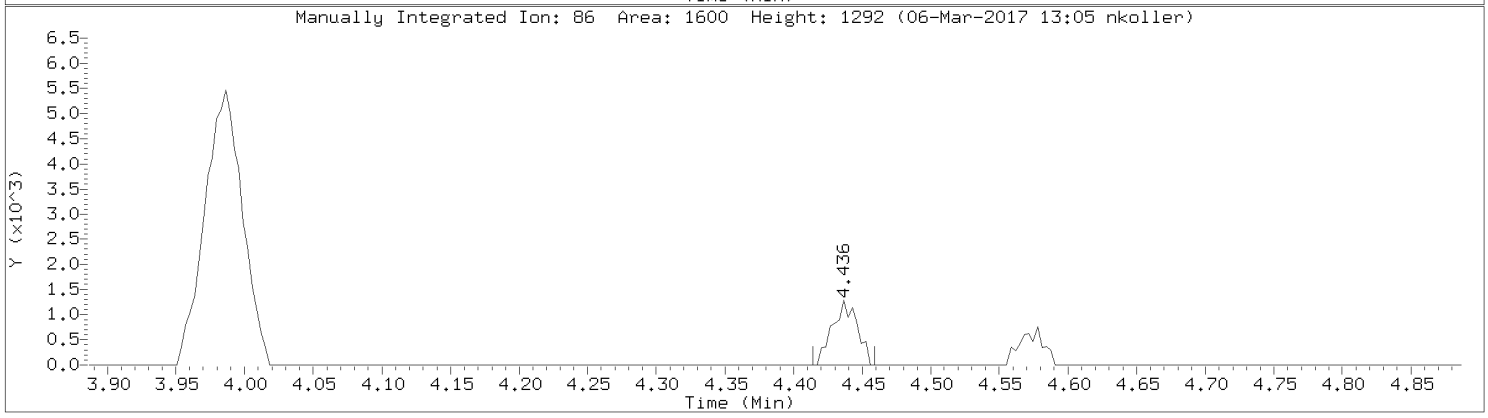
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06427.D
Injection Date: 05-MAR-2017 22:37
Instrument: 10airB.i
Lab Sample ID: 10380193008

Compound: Vinyl Acetate
CAS Number: 108-05-4



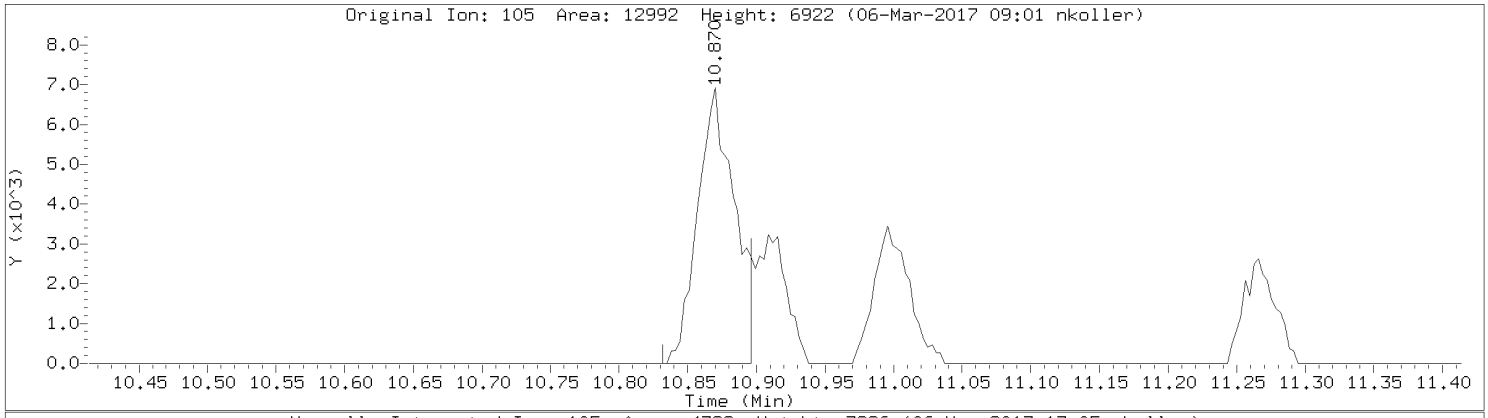


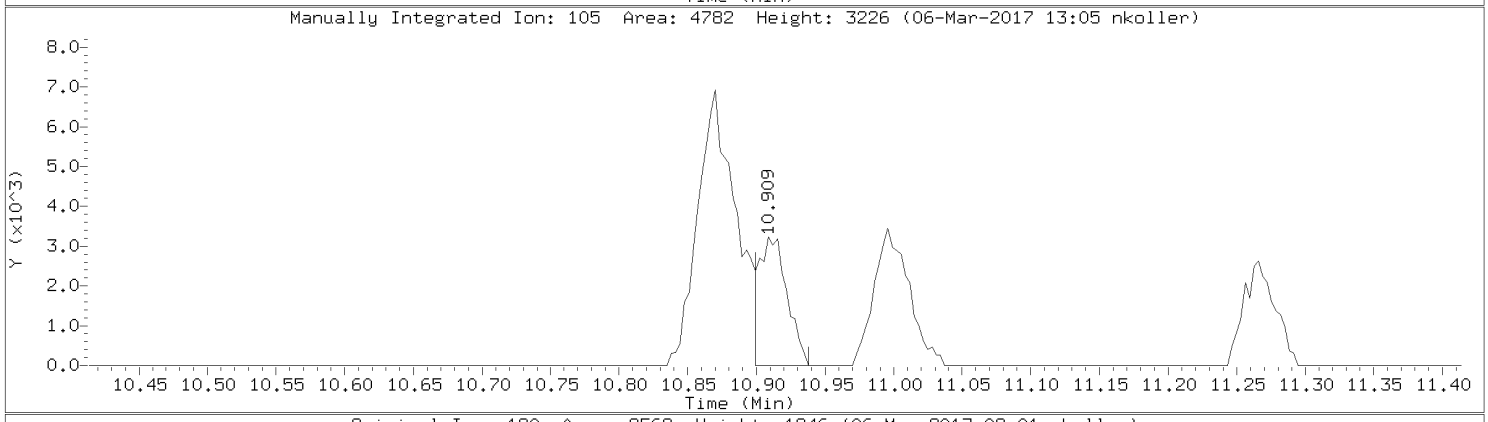


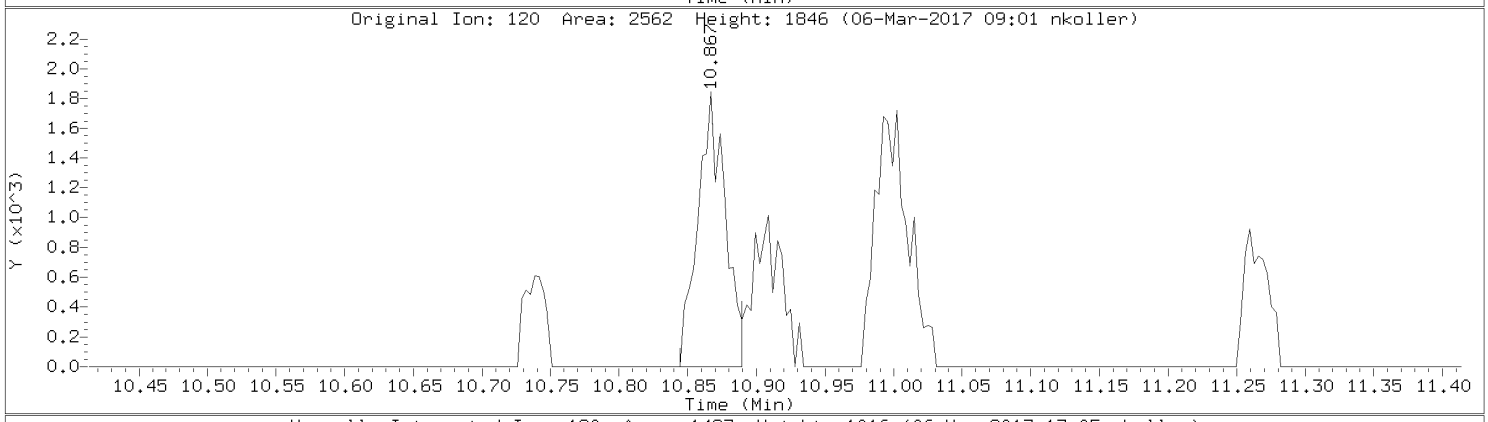


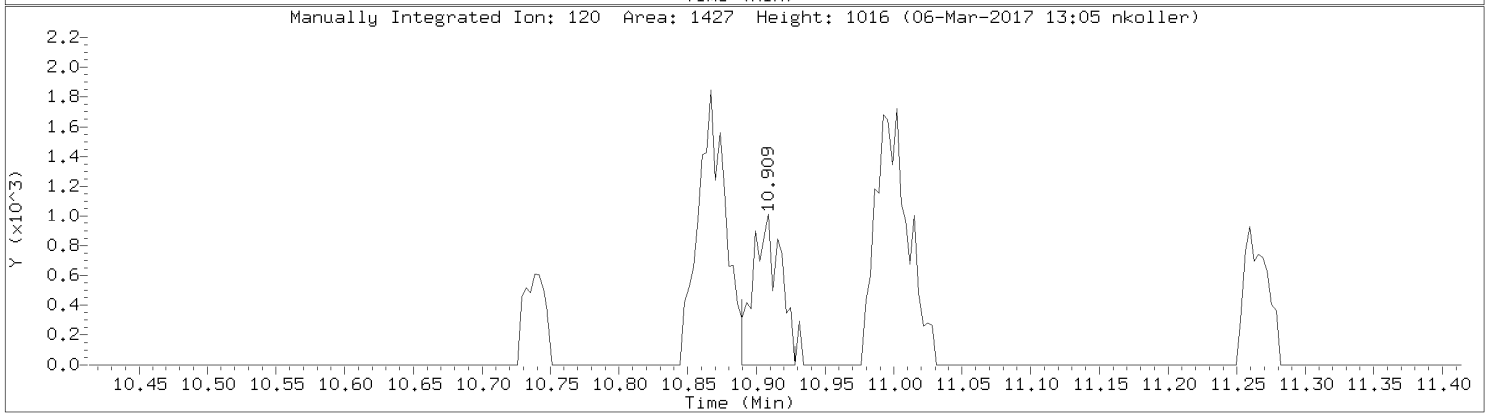
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06427.D
Injection Date: 05-MAR-2017 22:37
Instrument: 10airB.i
Lab Sample ID: 10380193008

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

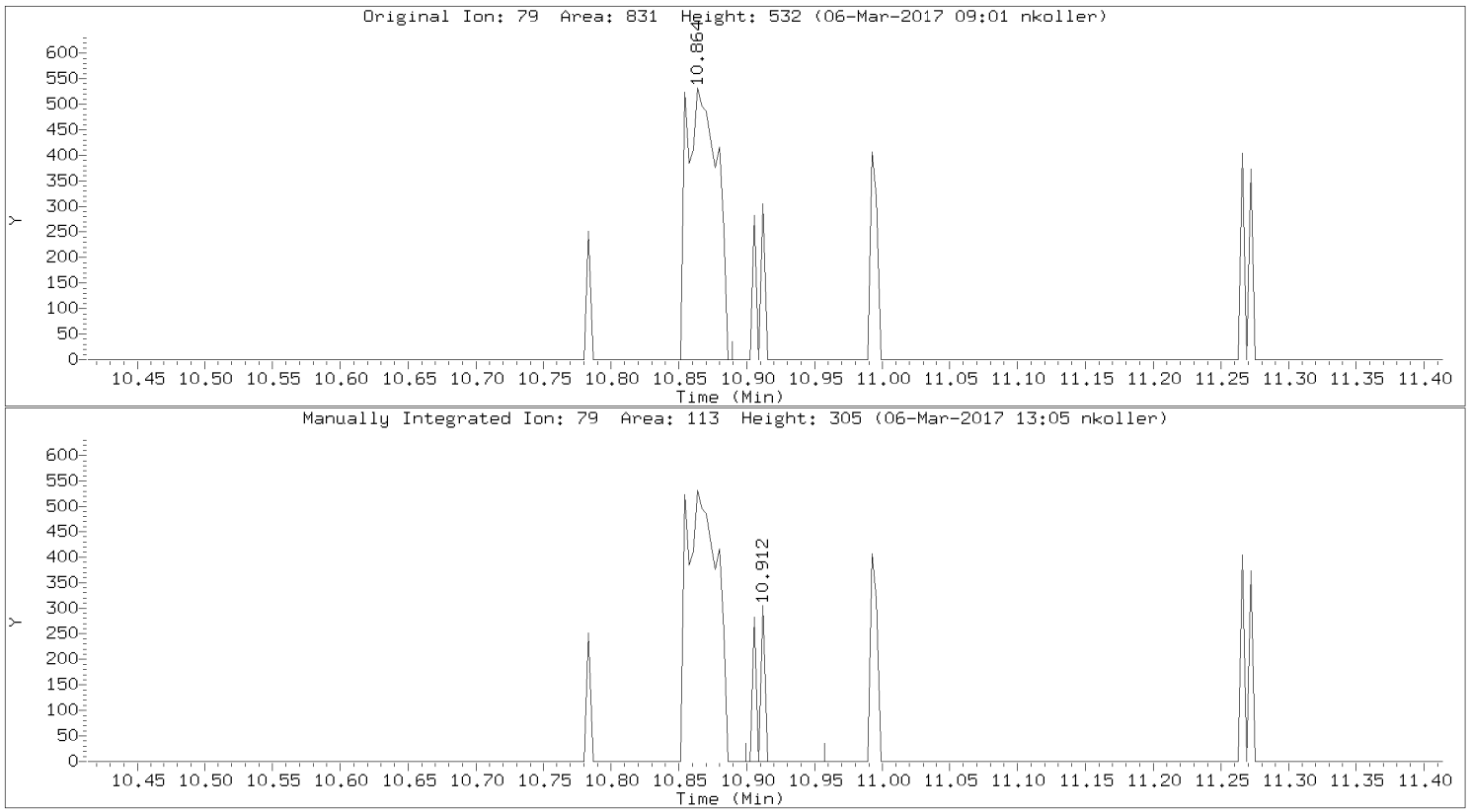






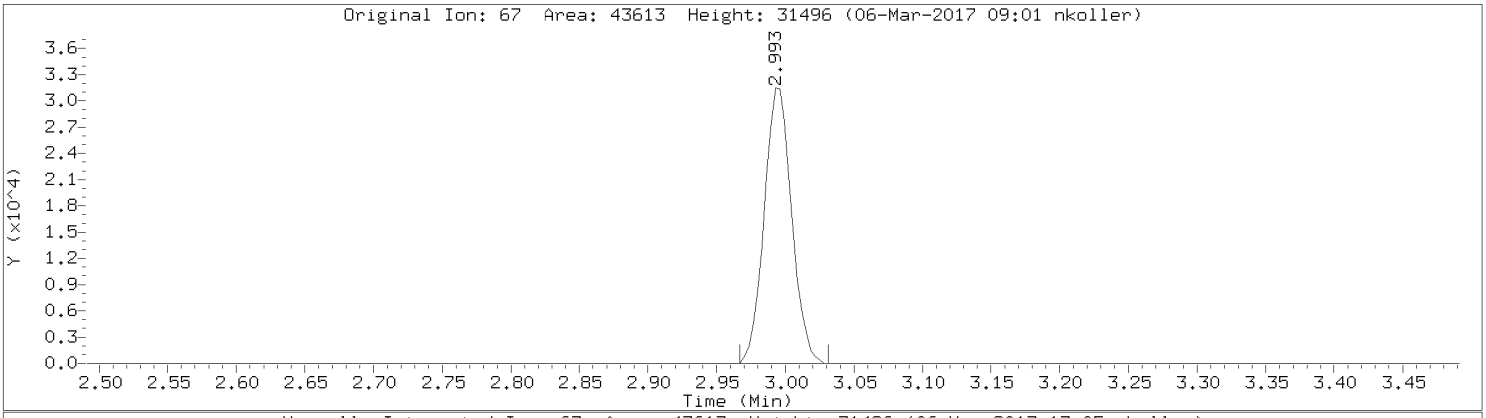


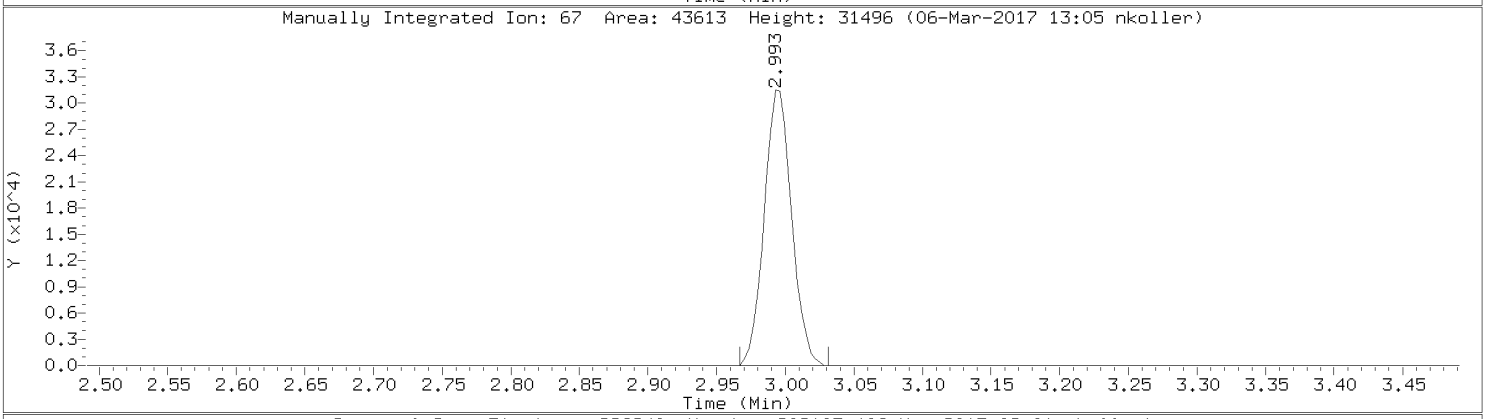
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06427.D
Injection Date: 05-MAR-2017 22:37
Instrument: 10airB.i
Lab Sample ID: 10380193008

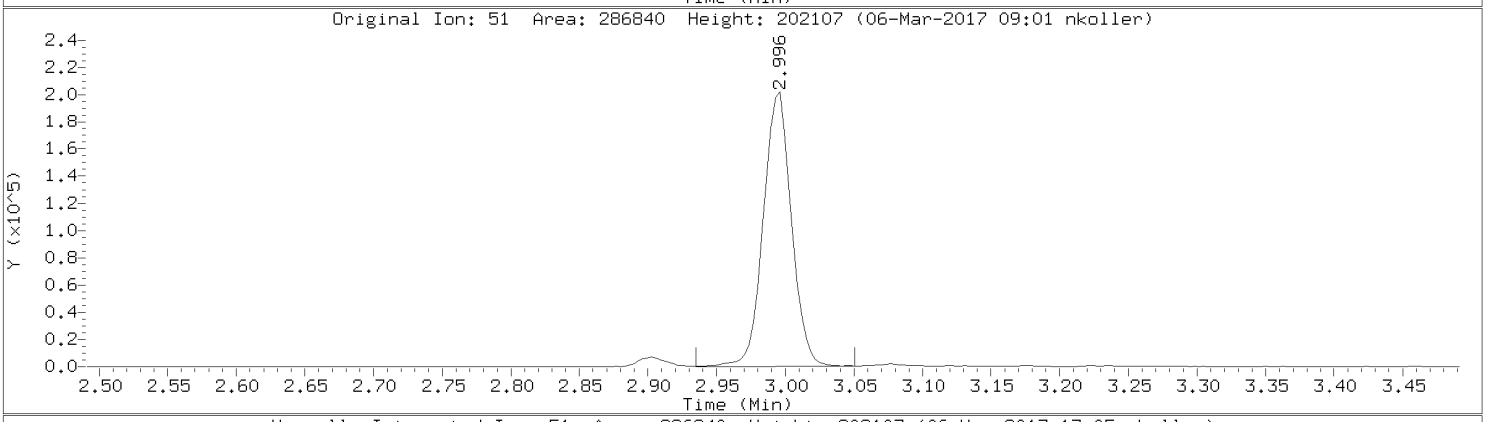


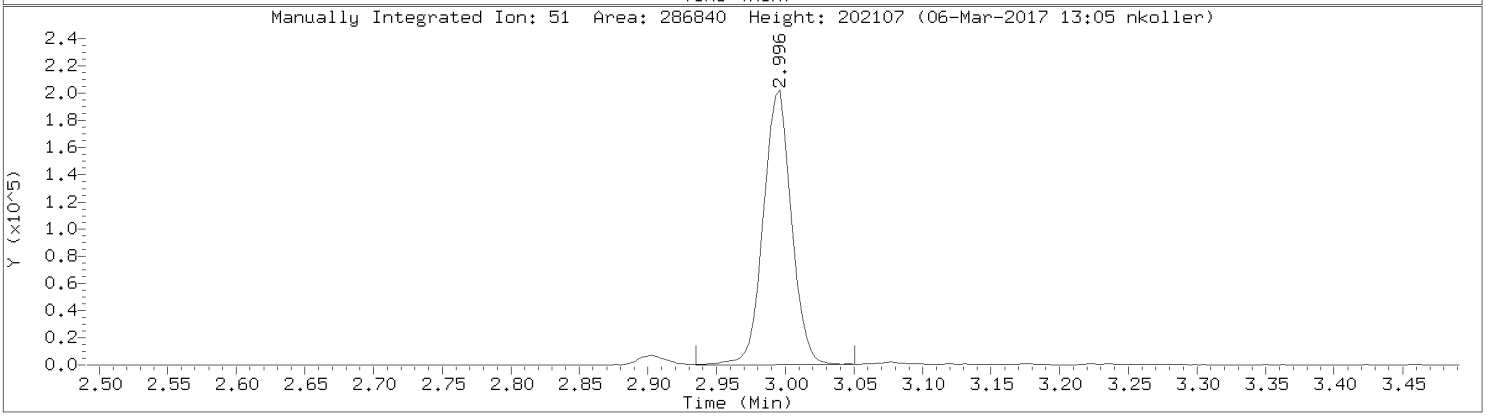
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06427.D
Injection Date: 05-MAR-2017 22:37
Instrument: 10airB.i
Lab Sample ID: 10380193008

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

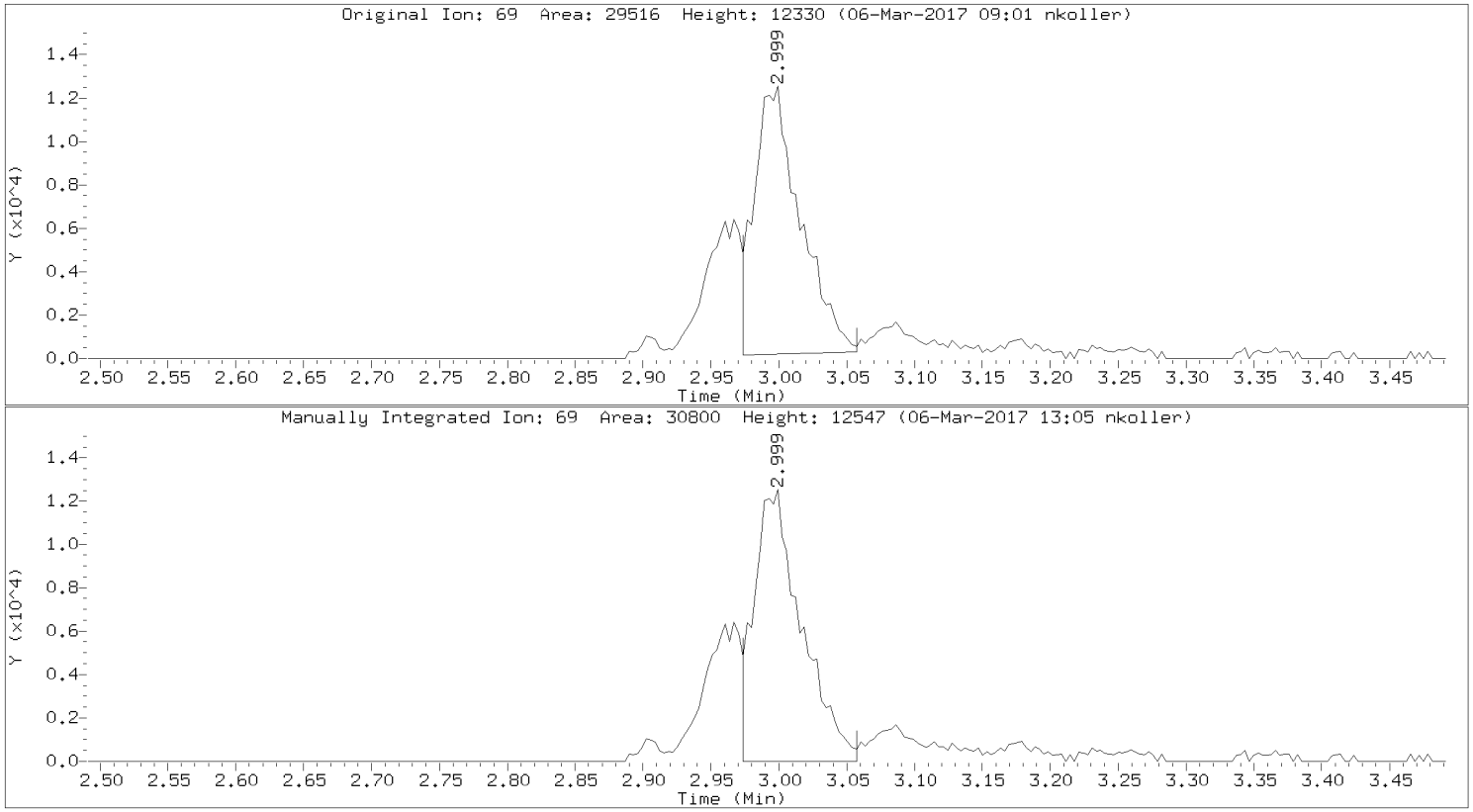








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06427.D
Injection Date: 05-MAR-2017 22:37
Instrument: 10airB.i
Lab Sample ID: 10380193008



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06516.D
Report Date: 07-Mar-2017 14:10

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06516.D
Lab Smp Id: 10380193008
Inj Date : 06-MAR-2017 15:58
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 13:55 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 16
Dil Factor: 51.45600
Integrator: HP RTE Compound Sublist: dil.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	51.456	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	22 Freon 113	101	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.703	4.725	(0.840)	4967	0.38593	19.9(Q)	
	39 Chloroform	83	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1287626	10.0000		
	51 Trichloroethene	130	5.973	5.989	(1.067)	49071	2.26818	117	
	66 Tetrachloroethene	166	7.982	7.989	(0.924)	28562	0.97172	50.0	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	846484	10.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06516.D
Report Date: 07-Mar-2017 14:10

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06516.D
Lab Smp Id: 10380193008
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1287626	-8.94
67 Chlorobenzene - d	951026	570616	1331436	846484	-10.99

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

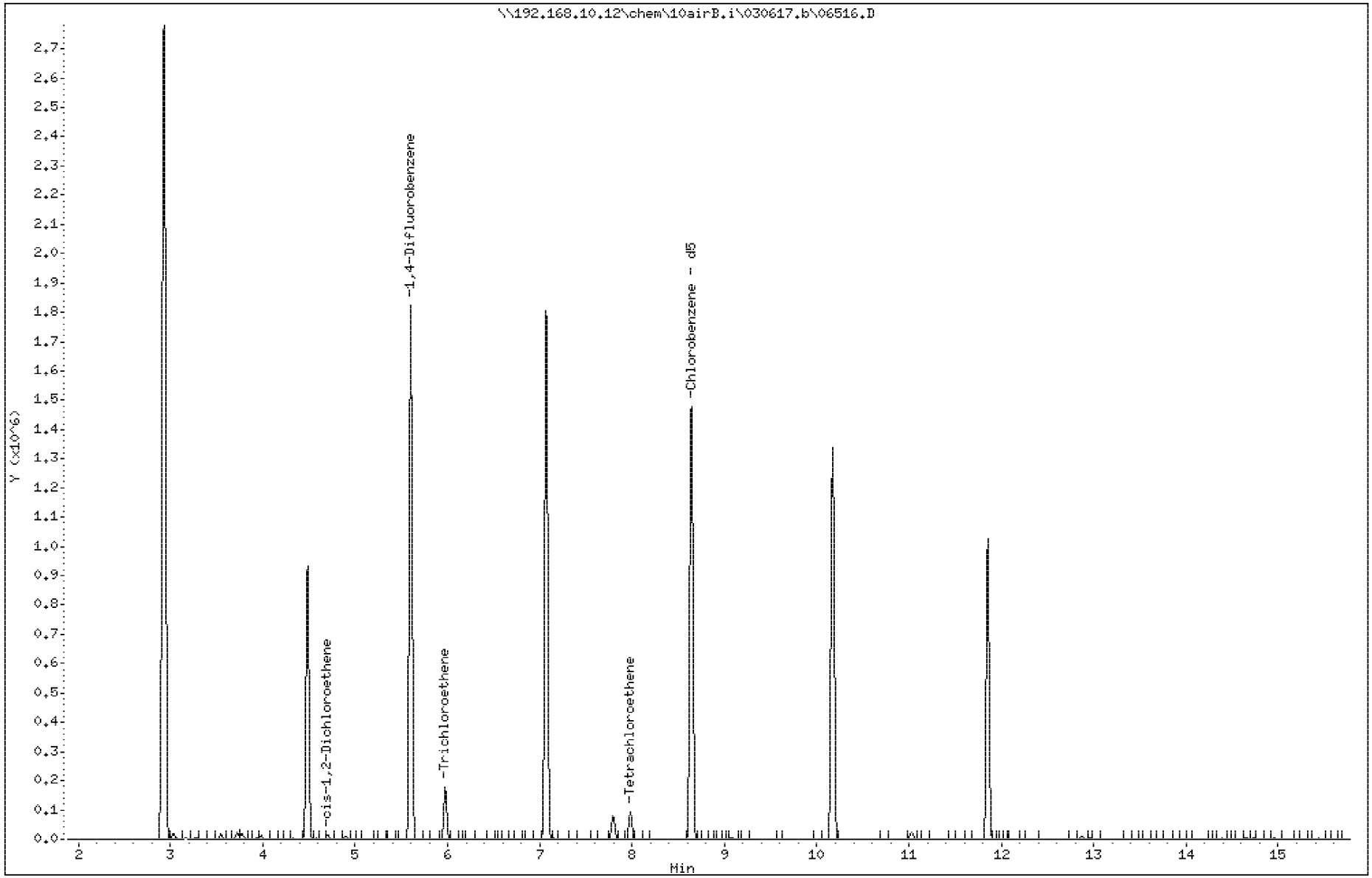
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06516.D
Date : 06-MAR-2017 15:58
Client ID:
Sample Info:

Column phase: J&W DB-5

Instrument: 10airB.i

Operator: NCK
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06516.D

Date : 06-MAR-2017 15:58

Client ID:

Instrument: 10airB.i

Sample Info:

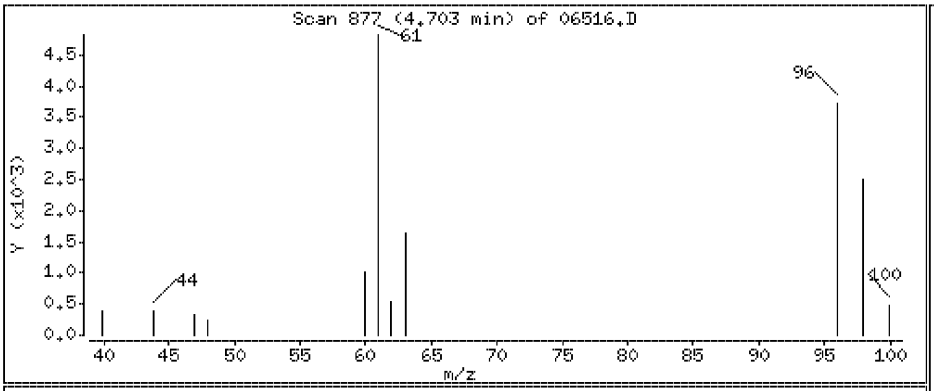
Operator: NCK

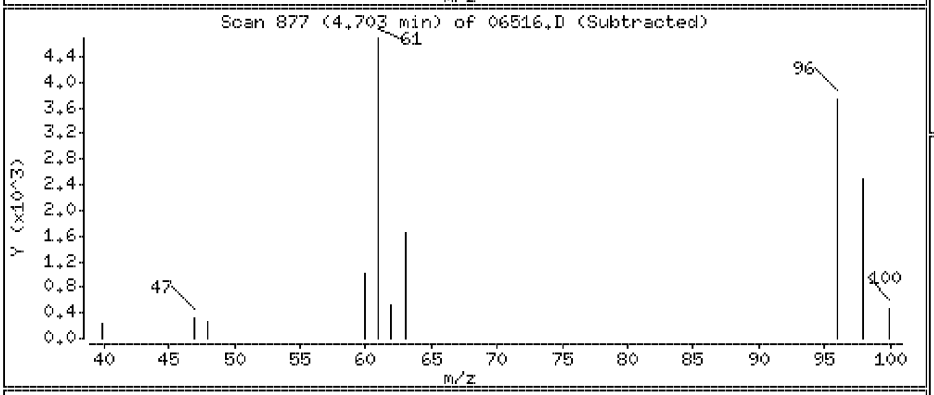
Column phase: J&W DB-5

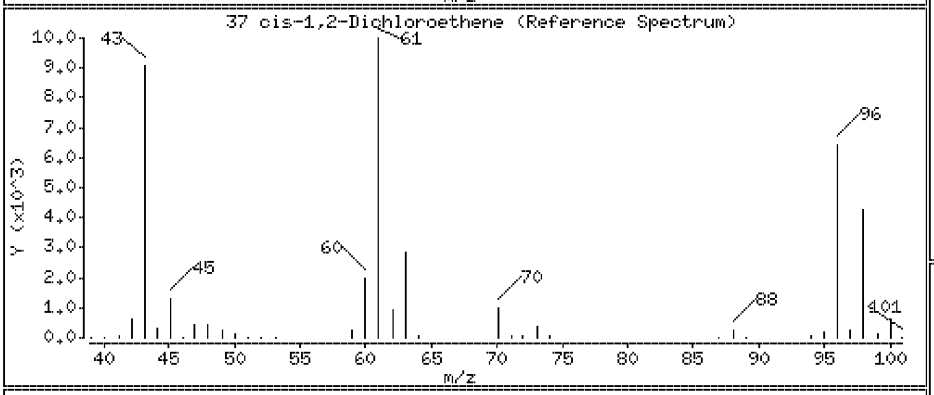
Column diameter: 0.32

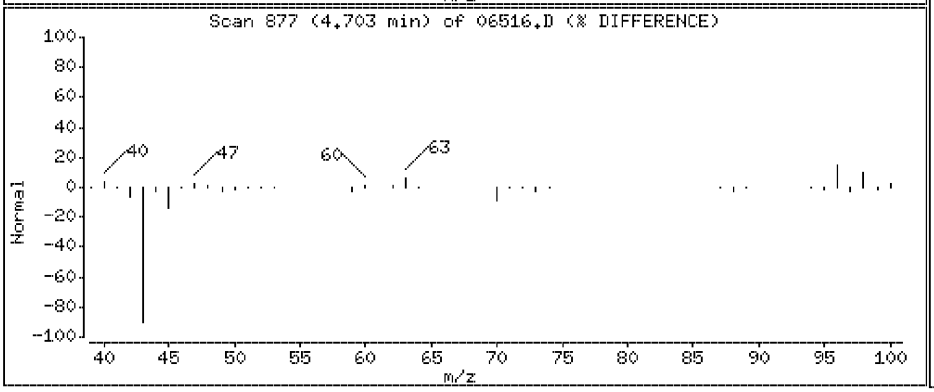
37 cis-1,2-Dichloroethene

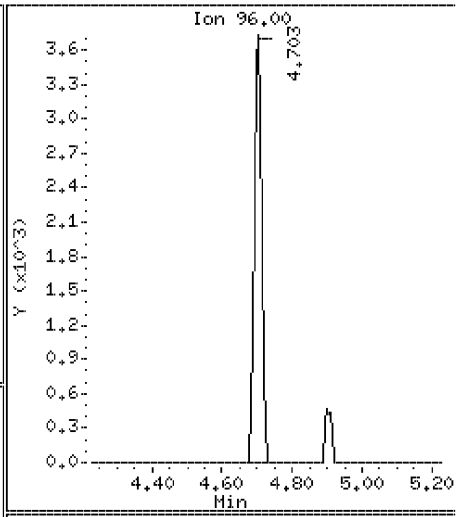
Concentration: 19.9 ppbv

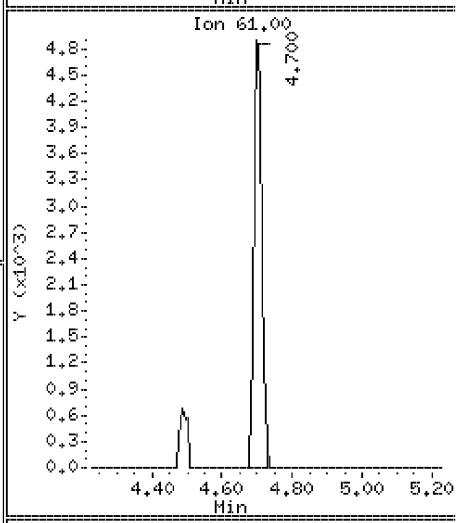


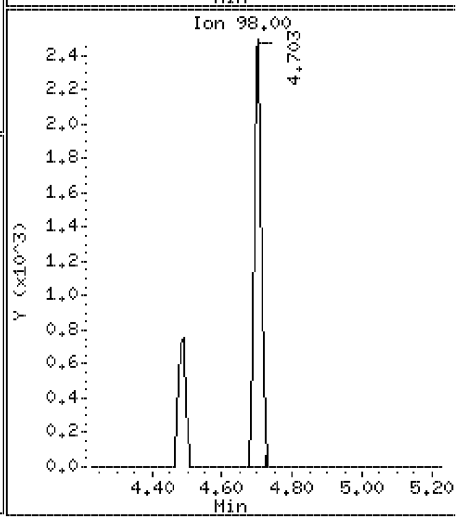












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06516.D

Date : 06-MAR-2017 15:58

Client ID:

Instrument: 10airB.i

Sample Info:

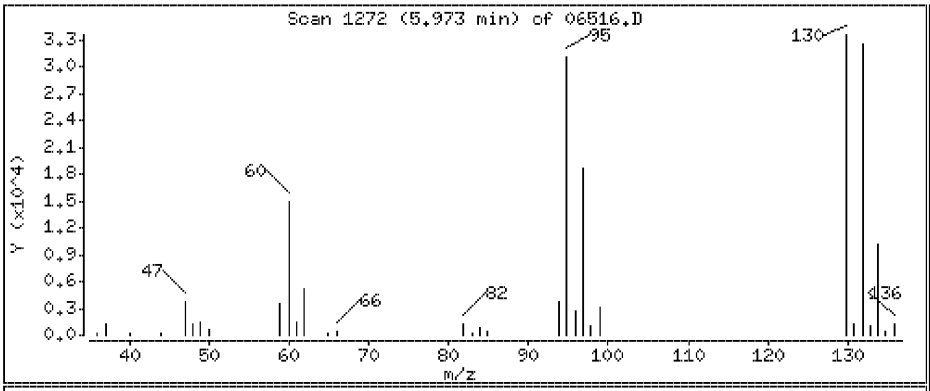
Operator: NCK

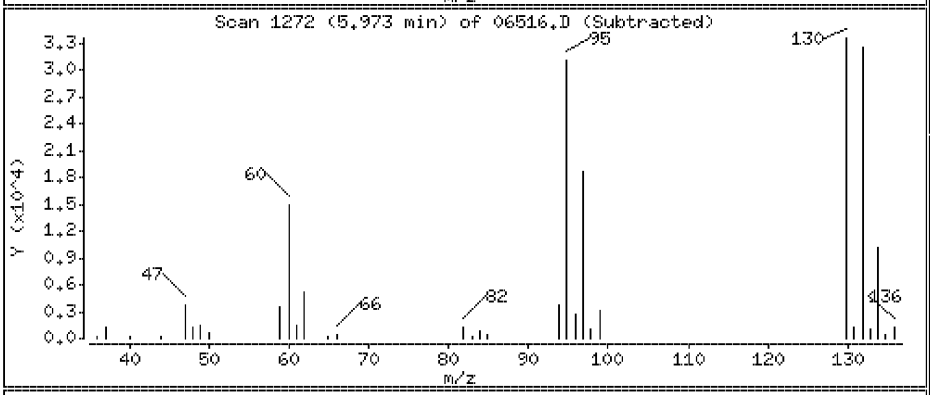
Column phase: J&W DB-5

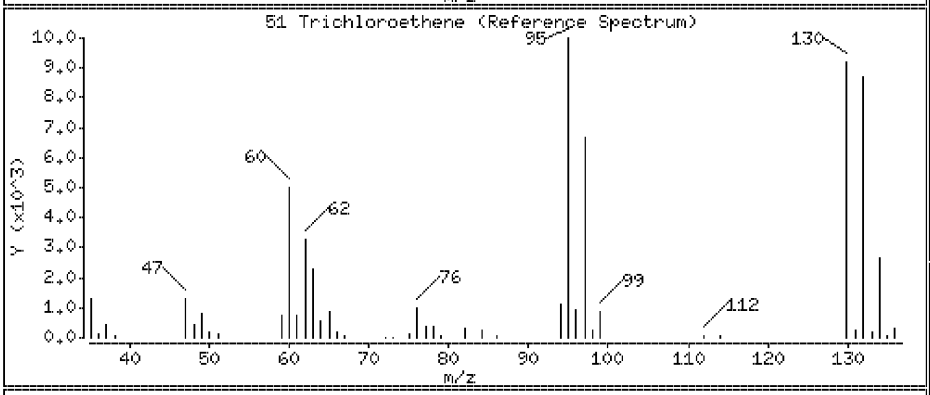
Column diameter: 0.32

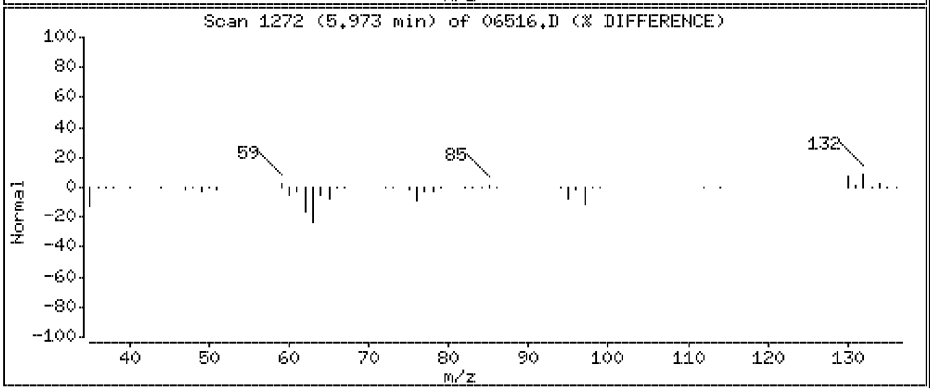
51 Trichloroethene

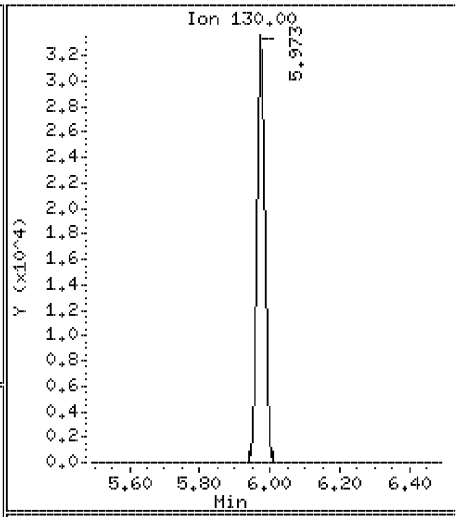
Concentration: 117 ppbv

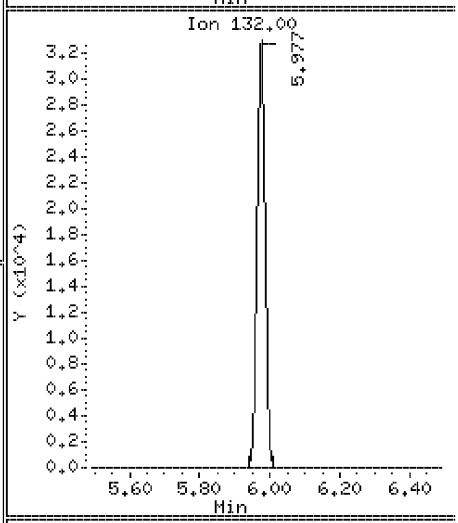


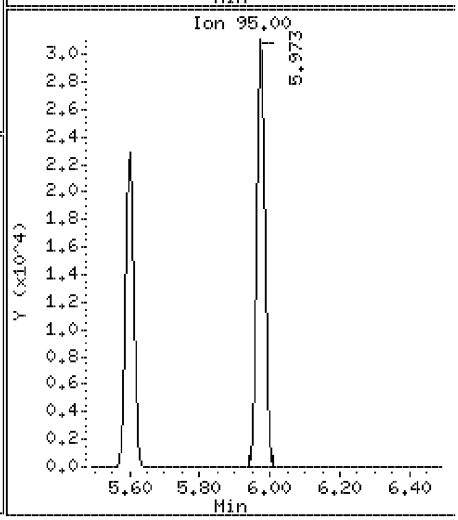












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06516.D

Date : 06-MAR-2017 15:58

Client ID:

Instrument: 10airB.i

Sample Info:

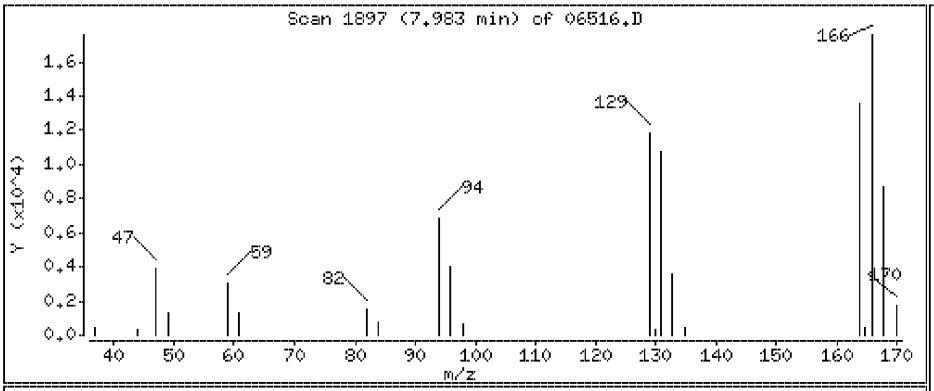
Operator: NCK

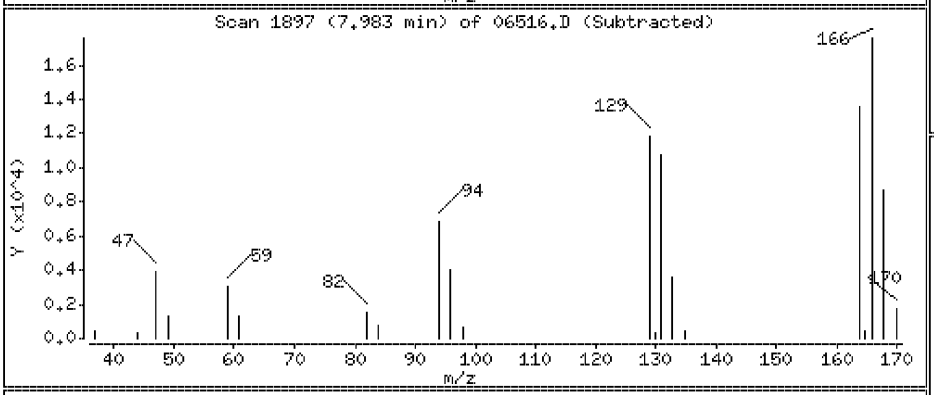
Column phase: J&W DB-5

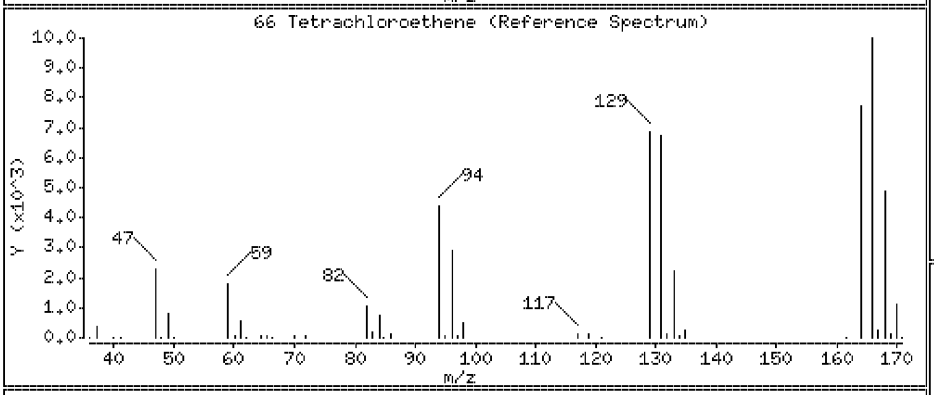
Column diameter: 0.32

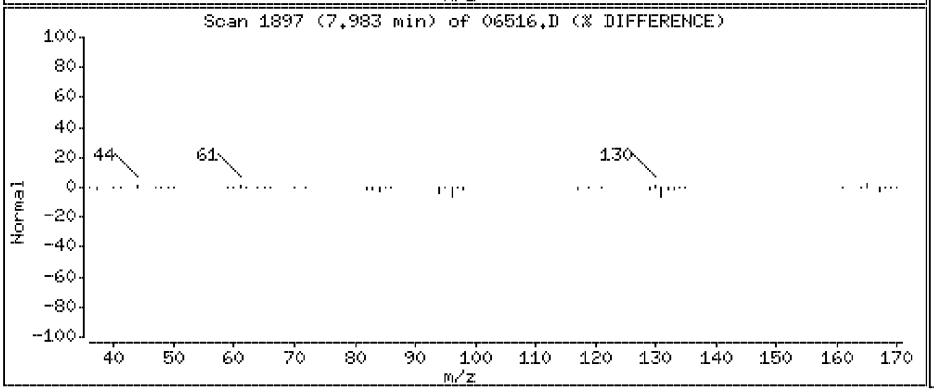
66 Tetrachloroethene

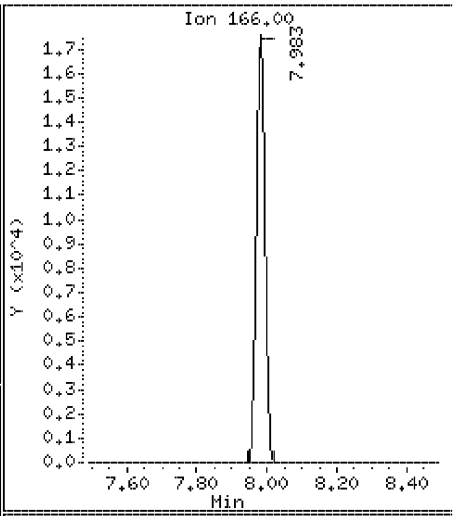
Concentration: 50.0 ppbv

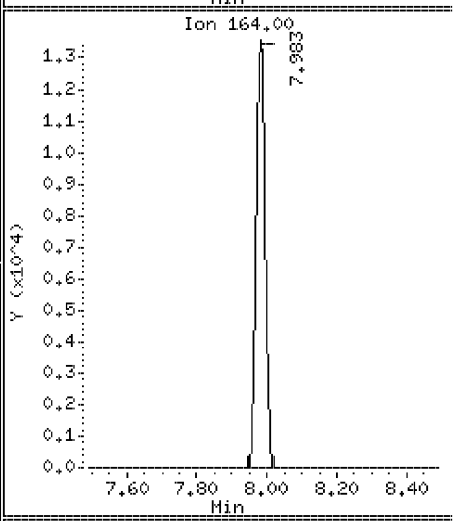


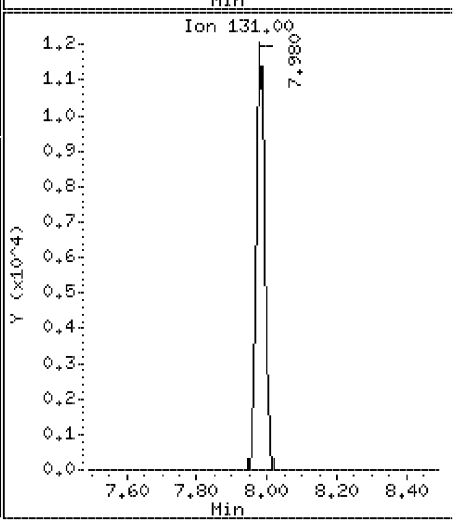












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06516.D
Injection Date: 06-MAR-2017 15:58
Instrument: 10airB.i
Lab Sample ID: 10380193008
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_20_20170223 **Lab ID: 10380193008** Collected: 02/23/17 12:04 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**138**	ug/m3	4.8	0.46	1.92		03/05/17 22:37	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/05/17 22:37	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 22:37	79-34-5	
Tetrachloroethene	**340**	ug/m3	1.3	0.53	1.92		03/05/17 22:37	127-18-4	
Toluene	**20.1**	ug/m3	1.5	0.30	1.92		03/05/17 22:37	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/05/17 22:37	120-82-1	
1,1,1-Trichloroethane	**3.6**	ug/m3	2.1	0.47	1.92		03/05/17 22:37	71-55-6	
1,1,2-Trichloroethane	**10.9**	ug/m3	1.1	0.47	1.92		03/05/17 22:37	79-00-5	
Trichloroethene	**594**	ug/m3	1.1	0.53	1.92		03/05/17 22:37	79-01-6	
Trichloroethene	**638**	ug/m3	28.3	14.2	51.46		03/06/17 15:58	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.2	0.25	1.92		03/05/17 22:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	**14.2**	ug/m3	3.1	0.58	1.92		03/05/17 22:37	76-13-1	
1,2,4-Trimethylbenzene	**3.5**	ug/m3	1.9	0.24	1.92		03/05/17 22:37	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.9	0.35	1.92		03/05/17 22:37	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 22:37	75-01-4	
m&p-Xylene	**15.6**	ug/m3	3.4	1.5	1.92		03/05/17 22:37	179601-23-1	
o-Xylene	**3.8**	ug/m3	1.7	0.67	1.92		03/05/17 22:37	95-47-6	

Sample: VP-9_30_20170223 **Lab ID: 10380193009** Collected: 02/23/17 12:10 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.3**	ug/m3	4.4	1.5	1.83		03/05/17 23:10	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/05/17 23:10	107-05-1	
Benzene	**2.7**	ug/m3	0.59	0.22	1.83		03/05/17 23:10	71-43-2	
Bromodichloromethane	**2.0J**	ug/m3	2.5	0.36	1.83		03/05/17 23:10	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/05/17 23:10	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/05/17 23:10	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/05/17 23:10	106-99-0	
2-Butanone (MEK)	**3.4J**	ug/m3	5.5	0.42	1.83		03/05/17 23:10	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/05/17 23:10	75-15-0	
Carbon tetrachloride	**3.8**	ug/m3	1.2	0.35	1.83		03/05/17 23:10	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/05/17 23:10	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/05/17 23:10	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/05/17 23:10	75-00-3	
Chloroform	**95.8**	ug/m3	0.91	0.35	1.83		03/05/17 23:10	67-66-3	
Chloromethane	**0.42J**	ug/m3	0.77	0.20	1.83		03/05/17 23:10	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/05/17 23:10	76-15-3	CL
Cyclohexane	**1.2J**	ug/m3	1.3	0.58	1.83		03/05/17 23:10	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/05/17 23:10	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/05/17 23:10	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/05/17 23:10	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/05/17 23:10	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_30_20170223 **Lab ID: 10380193009** Collected: 02/23/17 12:10 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/05/17 23:10	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/05/17 23:10	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.8	0.88	1.83		03/05/17 23:10	75-71-8	
1,1-Dichloroethane	**1.9**	ug/m3	1.5	0.29	1.83		03/05/17 23:10	75-34-3	
1,2-Dichloroethane	**2.3**	ug/m3	0.75	0.38	1.83		03/05/17 23:10	107-06-2	
1,1-Dichloroethene	**3.8**	ug/m3	1.5	0.44	1.83		03/05/17 23:10	75-35-4	
cis-1,2-Dichloroethene	**880**	ug/m3	1.5	0.45	1.83		03/05/17 23:10	156-59-2	
cis-1,2-Dichloroethene	**1810**	ug/m3	237	72.0	292.8		03/06/17 14:06	156-59-2	A3
trans-1,2-Dichloroethene	**5.4**	ug/m3	1.5	0.70	1.83		03/05/17 23:10	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/05/17 23:10	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/05/17 23:10	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/05/17 23:10	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/05/17 23:10	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/05/17 23:10	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/05/17 23:10	123-91-1	
Ethylbenzene	**2.9**	ug/m3	1.6	0.78	1.83		03/05/17 23:10	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.8	0.34	1.83		03/05/17 23:10	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/05/17 23:10	87-68-3	
n-Hexane	**3.4**	ug/m3	1.3	0.65	1.83		03/05/17 23:10	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/05/17 23:10	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/05/17 23:10	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/05/17 23:10	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/05/17 23:10	108-87-2	
Methylene Chloride	**32.4**	ug/m3	6.5	0.99	1.83		03/05/17 23:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/05/17 23:10	108-10-1	
Methyl-tert-butyl ether	**9.2**	ug/m3	6.7	0.55	1.83		03/05/17 23:10	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/05/17 23:10	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/05/17 23:10	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/05/17 23:10	79-34-5	
Tetrachloroethene	**1090**	ug/m3	1.3	0.51	1.83		03/05/17 23:10	127-18-4	
Tetrachloroethene	**2380**	ug/m3	202	81.4	292.8		03/06/17 14:06	127-18-4	A3
Toluene	**14.4**	ug/m3	1.4	0.28	1.83		03/05/17 23:10	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/05/17 23:10	120-82-1	
1,1,1-Trichloroethane	**1.3J**	ug/m3	2.0	0.45	1.83		03/05/17 23:10	71-55-6	
1,1,2-Trichloroethane	**44.8**	ug/m3	1.0	0.45	1.83		03/05/17 23:10	79-00-5	
Trichloroethene	**3230**	ug/m3	1.0	0.51	1.83		03/05/17 23:10	79-01-6	
Trichloroethene	**15300**	ug/m3	161	80.8	292.8		03/06/17 14:06	79-01-6	A3
Trichlorofluoromethane	**1.9J**	ug/m3	2.1	0.24	1.83		03/05/17 23:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	**137**	ug/m3	2.9	0.55	1.83		03/05/17 23:10	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.8	0.23	1.83		03/05/17 23:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/05/17 23:10	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/05/17 23:10	75-01-4	
m&p-Xylene	**11.7**	ug/m3	3.2	1.4	1.83		03/05/17 23:10	179601-23-1	
o-Xylene	**2.8**	ug/m3	1.6	0.64	1.83		03/05/17 23:10	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D
Report Date: 06-Mar-2017 13:14

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06428.D
Lab Smp Id: 10380193009
Inj Date : 05-MAR-2017 23:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 28
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.050	3.021	(0.543)	11260	0.23675	0.433	
6	Chloromethane	50	3.147	3.124	(0.560)	1595	0.10983	0.201	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.542	(0.631)	18282	3.93658	7.20	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.574	3.578	(0.636)	7118	0.42923	0.785	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.655	3.655	(0.650)	6398	0.18464	0.338	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.735	3.713	(0.664)	69435	3.46240	6.34	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.893	3.896	(0.692)	10402	0.51616	0.945	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.944	3.934	(0.702)	251903	9.62679	17.6	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D
Report Date: 06-Mar-2017 13:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	3.992	(0.709)	70945	5.01226	9.17	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.259	4.269	(0.758)	8256	0.73015	1.34	
	29 Methyl Tert Butyl Ether	73	4.327	4.301	(0.770)	44269	1.37339	2.51	
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	4.407	4.407	(0.784)	5590	0.25380	0.464	
$	32 Hexane-d14(S)	66	4.484	4.481	(0.798)	334118	8.30890	8.31	
	33 Methyl Ethyl Ketone	72	4.578	4.552	(0.814)	3264	0.61514	1.13(QH)	
	34 n-Hexane	57	4.581	4.578	(0.815)	10484	0.52017	0.952(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.716	4.722	(0.839)	1508093	119.374	218(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.828	4.838	(0.859)	276183	10.5475	19.3	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.234	5.227	(0.931)	3904	0.12673	0.232	
	42 1,2-Dichloroethane	62	5.237	5.233	(0.931)	6995	0.29934	0.548	
	43 Benzene	78	5.472	5.465	(0.973)	18355	0.45029	0.824	
	44 Carbon tetrachloride	117	5.484	5.484	(0.975)	10040	0.32612	0.597	
	45 Cyclohexane	56	5.494	5.484	(0.977)	3683	0.18049	0.330(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.623	5.610	(1.000)	1263920	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.912	5.889	(1.051)	3592	0.15771	0.289(Q)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.005	5.986	(1.068)	6863983	323.221	591(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	6.095	6.082	(1.084)	4821	0.16021	0.293	
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.086	7.076	(1.260)	1066980	9.43192	9.43	
	60 1,1,2-Trichloroethane	97	7.150	7.143	(1.272)	74810	4.41311	8.08	
	61 Toluene	91	7.163	7.153	(1.274)	105199	2.06080	3.77	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.581	7.584	(0.877)	7514	0.26646	0.488(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.999	7.986	(0.925)	2466058	86.1430	158(A)	
*	67 Chlorobenzene - d5	117	8.648	8.645	(1.000)	824428	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.938	8.934	(1.033)	21764	0.35892	0.657	
	70 m&p-Xylene	91	9.079	9.082	(1.050)	68753	1.44460	2.64	
	71 n-Nonane	43	9.471	9.468	(1.095)	5821	0.23713	0.434	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.577	9.581	(1.107)	16663	0.34414	0.630	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D
Report Date: 06-Mar-2017 13:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)		
78	4-Ethyltoluene	105	10.896	10.912	(1.260)	4288	0.15857	0.290	(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.							(D)
80	n-Decane	57	11.381	11.378	(2.024)	4287	0.36663	0.671	(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.							(D)
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.331)	6450	0.13170	0.241		
83	1,3-Dichlorobenzene	146	Compound Not Detected.							
84	Sec- Butylbenzene	105	Compound Not Detected.							
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.370)	475724	10.4751	10.5		
86	Benzyl Chloride	91	Compound Not Detected.							
87	1,4-Dichlorobenzene	146	Compound Not Detected.							
88	p-Isopropyltoluene	119	Compound Not Detected.							(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.							(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.							
91	N-Butylbenzene	91	Compound Not Detected.							
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.							
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.							
94	Naphthalene	128	14.172	14.169	(1.639)	5782	0.50845	0.930		
95	Hexachlorobutadiene	225	Compound Not Detected.							

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D
Report Date: 06-Mar-2017 13:14

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06428.D
Lab Smp Id: 10380193009
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

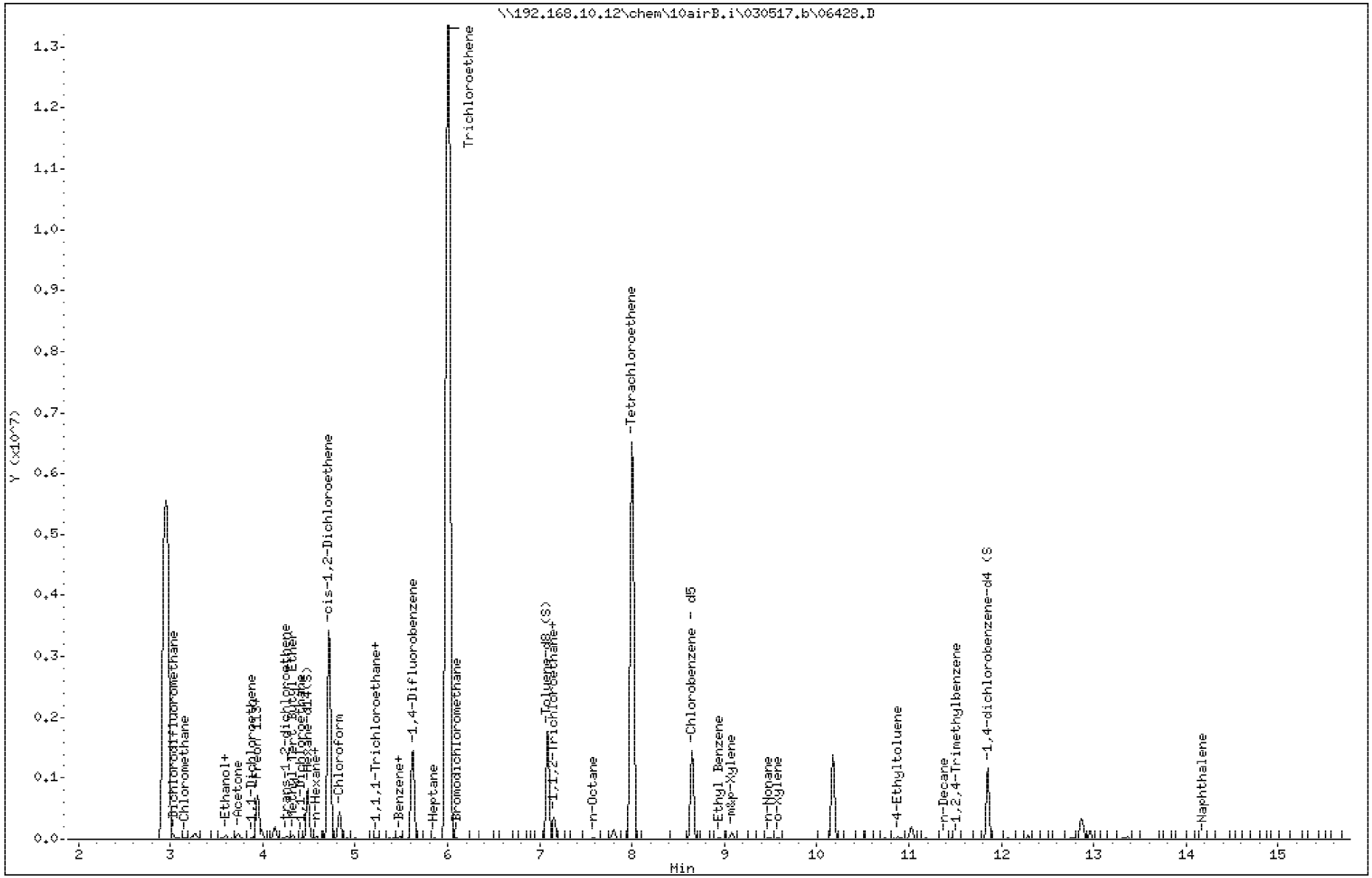
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1263920	-10.62
67 Chlorobenzene - d	951026	570616	1331436	824428	-13.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D
Date : 05-MAR-2017 23:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

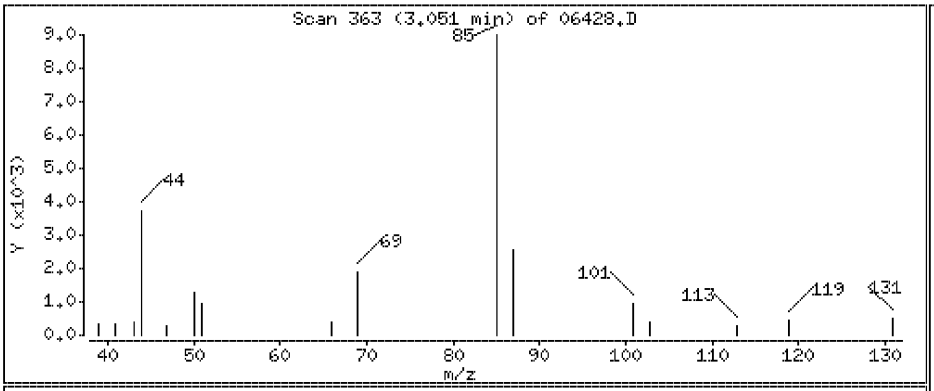
Operator: NCK

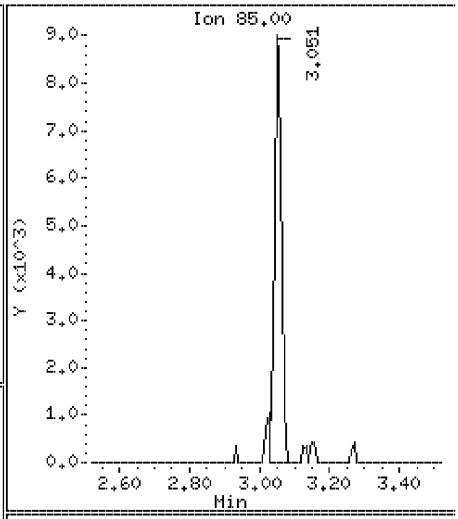
Column phase: J&W DB-5

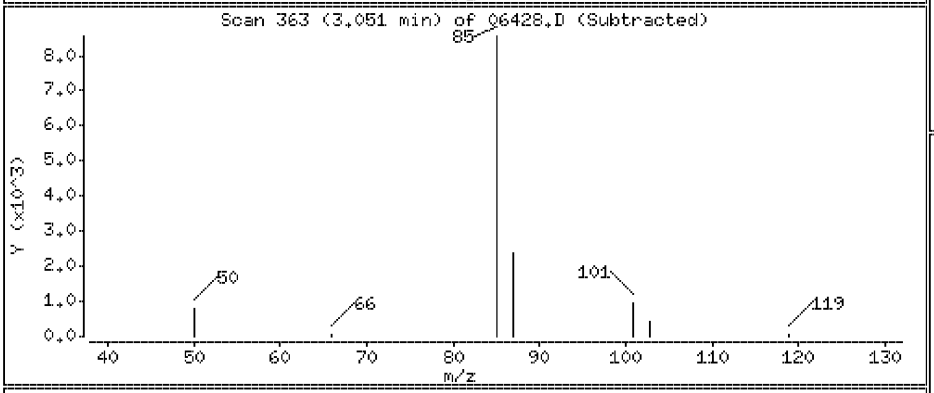
Column diameter: 0.32

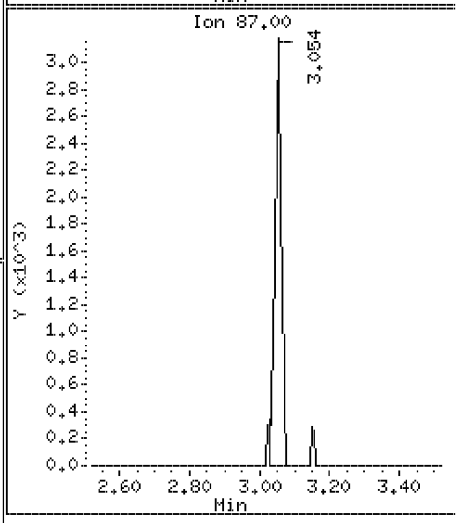
5 Dichlorodifluoromethane

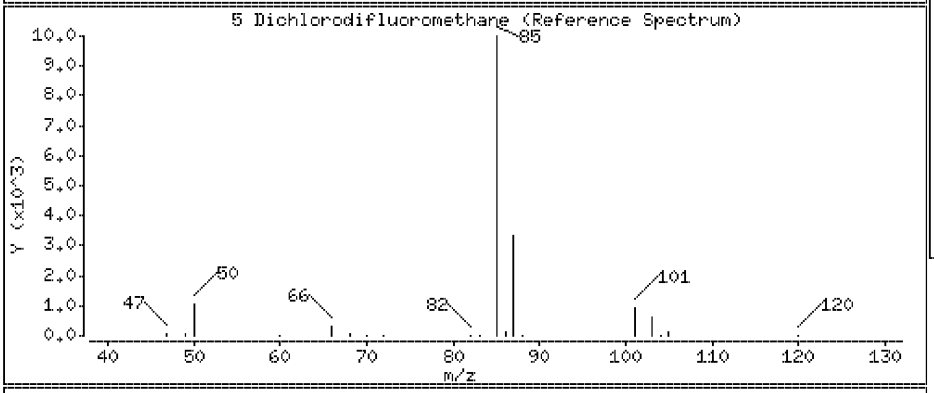
Concentration: 0.433 ppbv

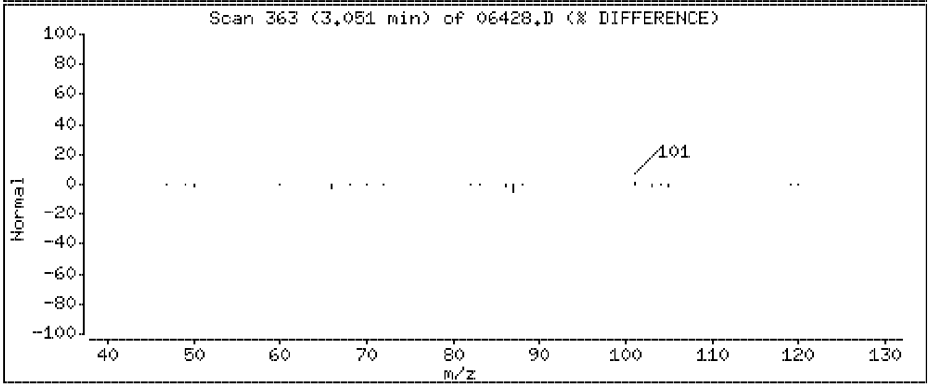












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

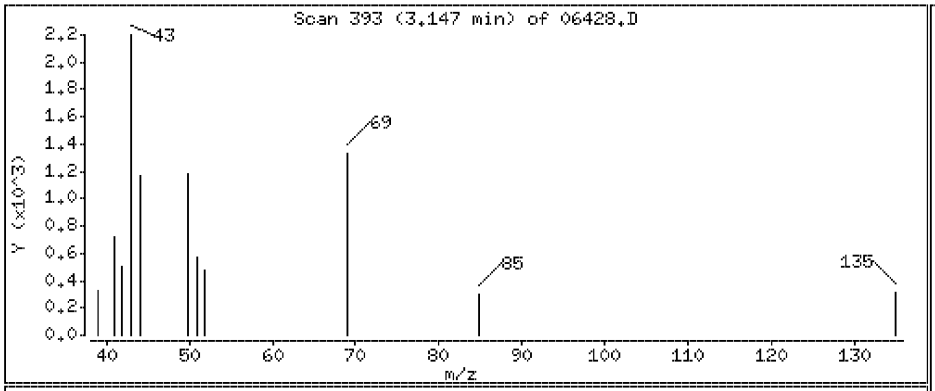
Operator: NCK

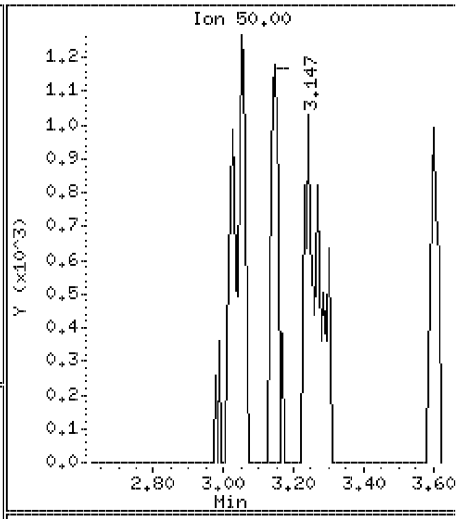
Column phase: J&W DB-5

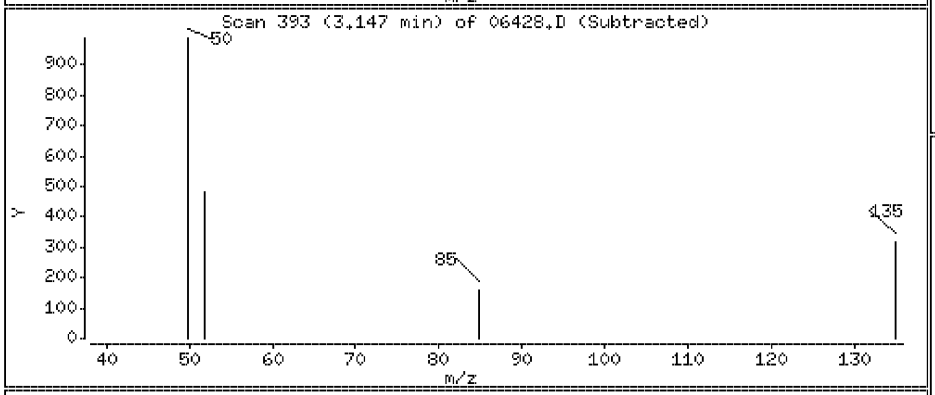
Column diameter: 0.32

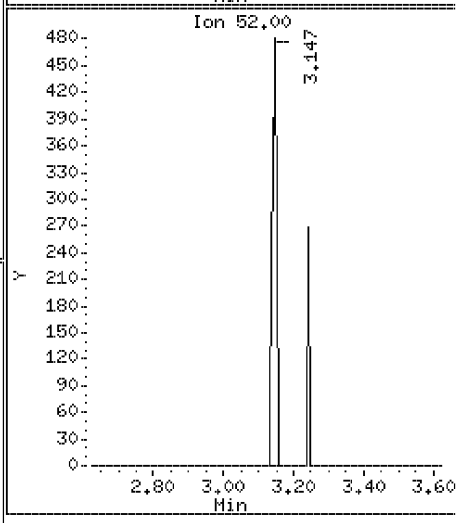
6 Chloromethane

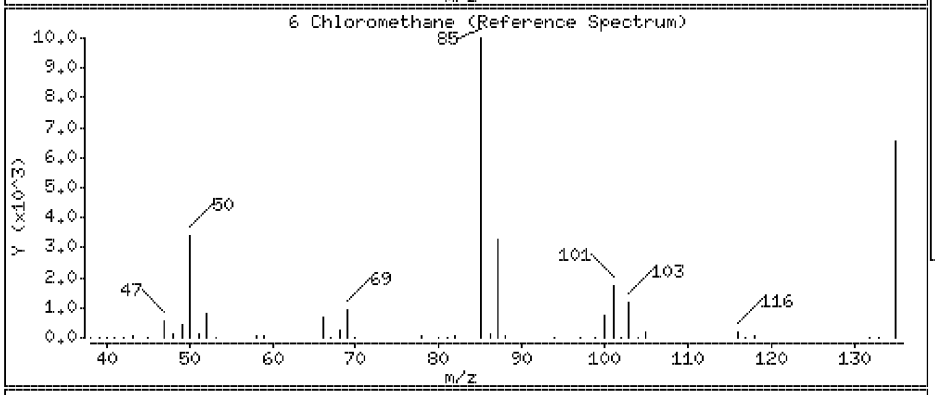
Concentration: 0.201 ppbv

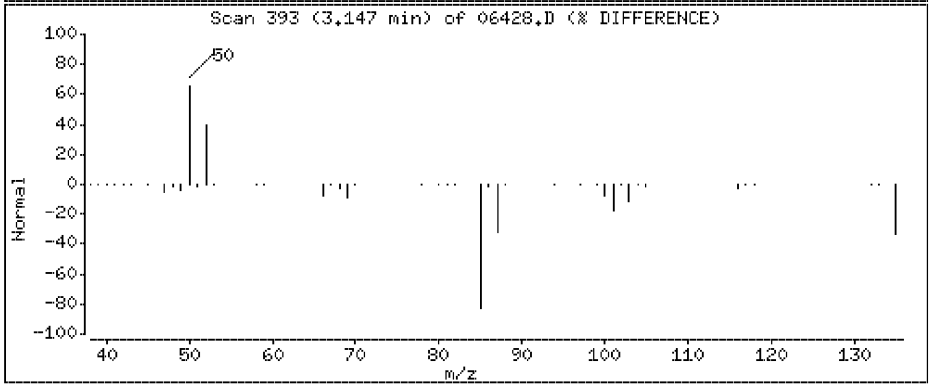












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

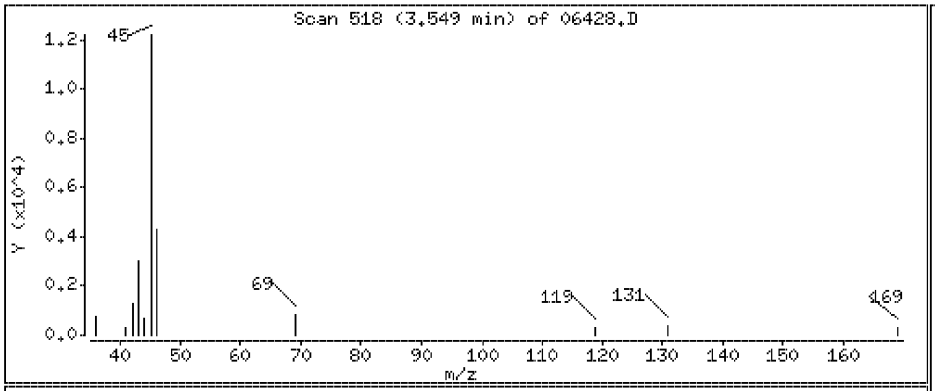
Operator: NCK

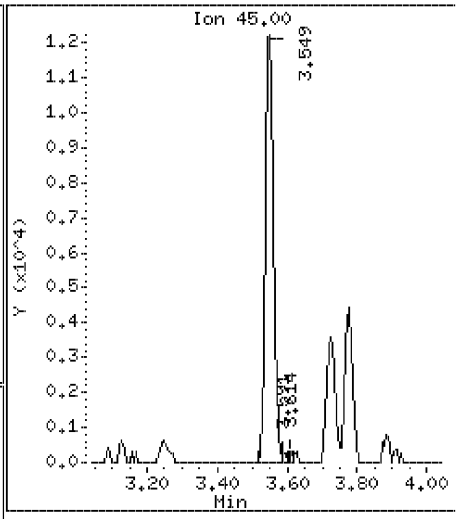
Column phase: J&W DB-5

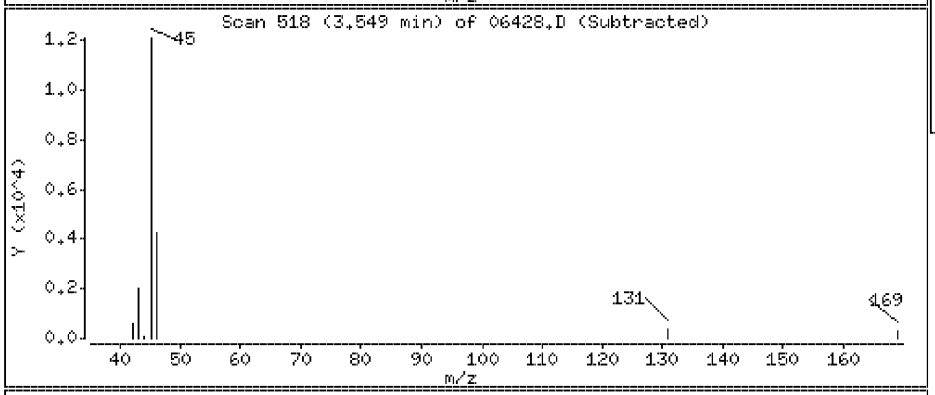
Column diameter: 0.32

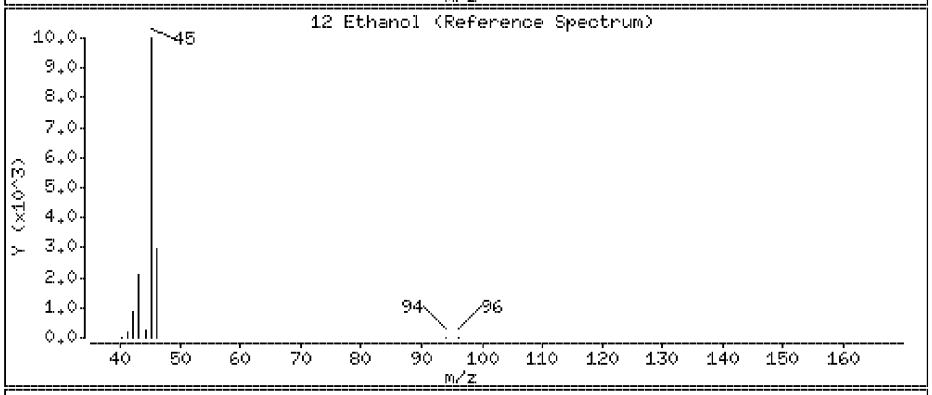
12 Ethanol

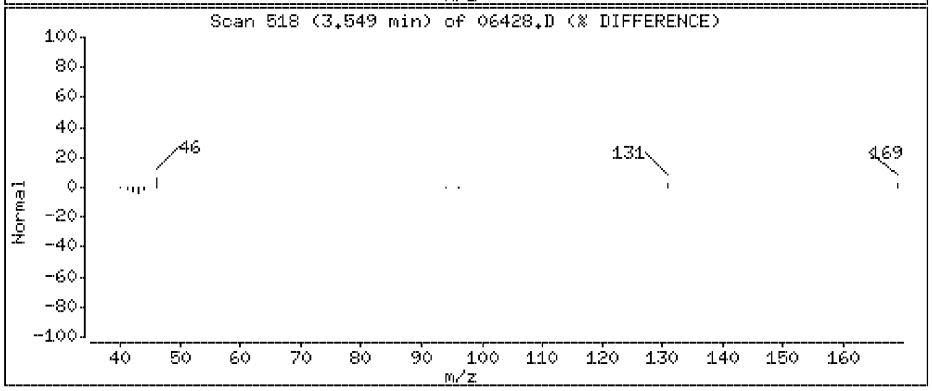
Concentration: 7.20 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

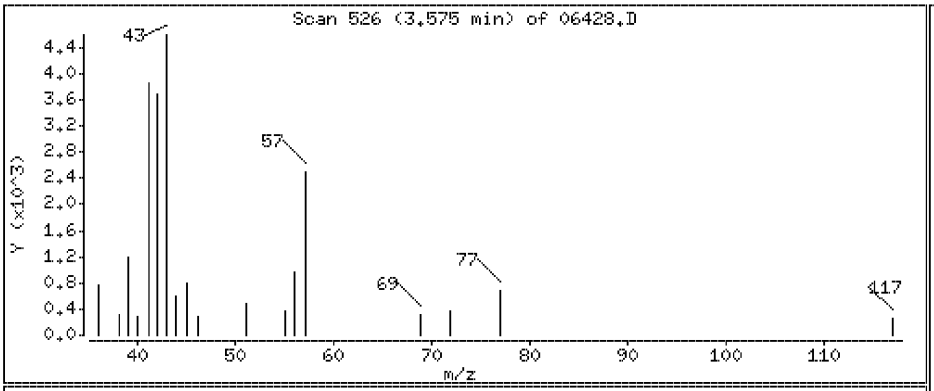
Operator: NCK

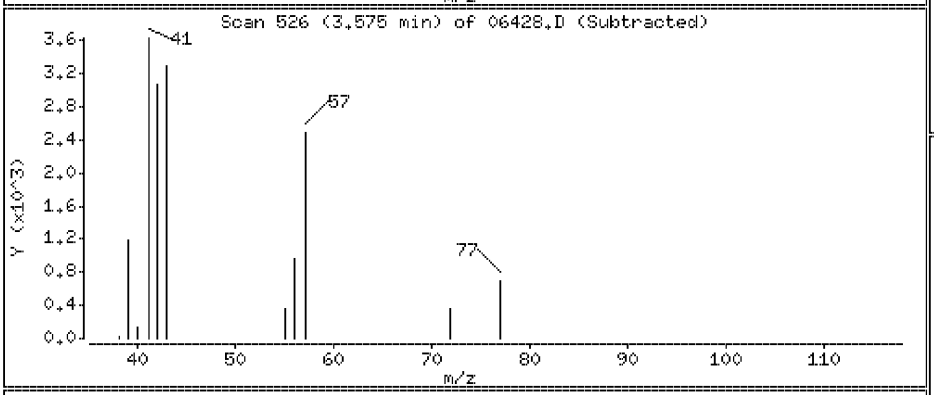
Column phase: J&W DB-5

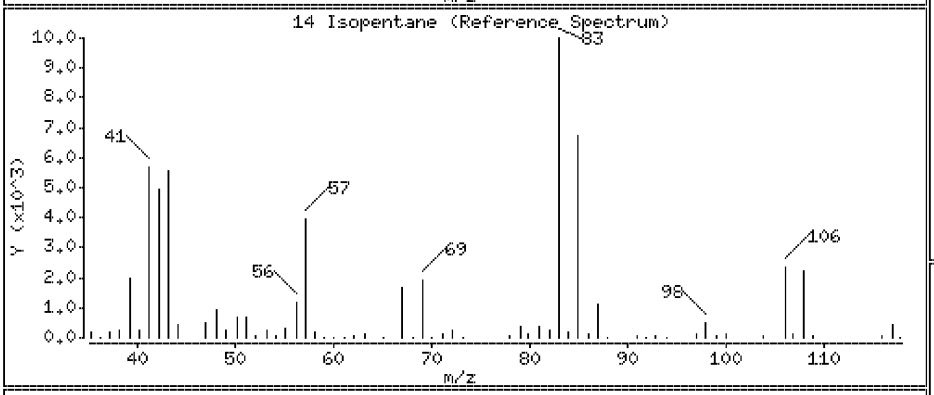
Column diameter: 0.32

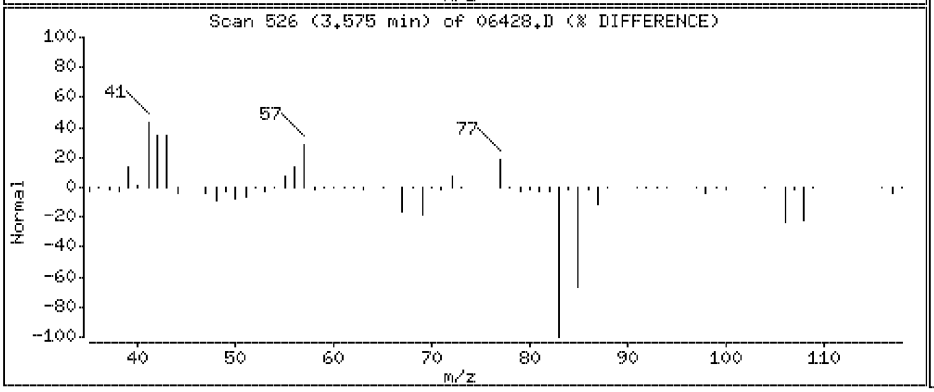
14 Isopentane

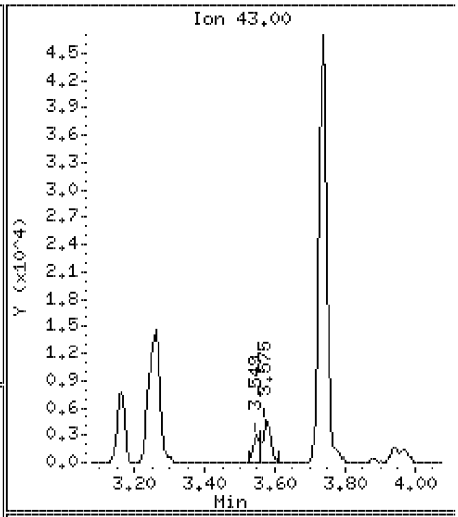
Concentration: 0.785 ppbv

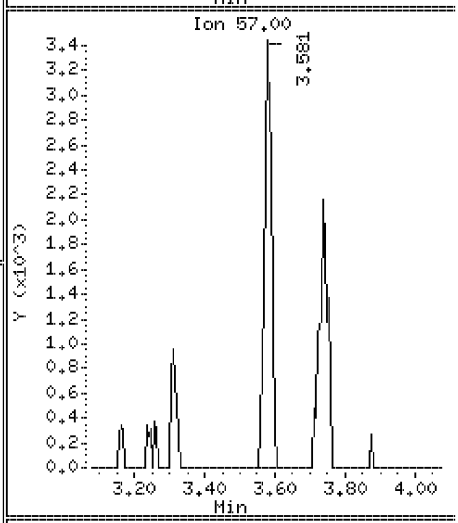


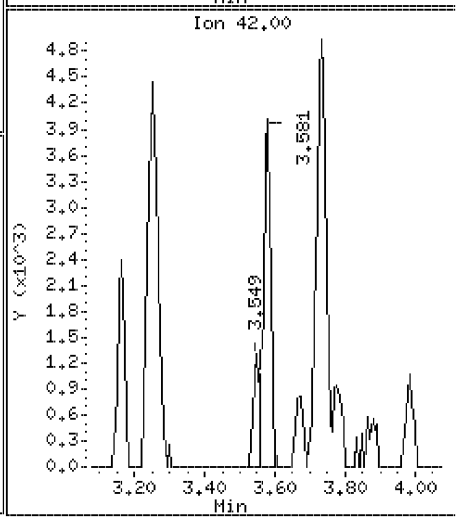












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

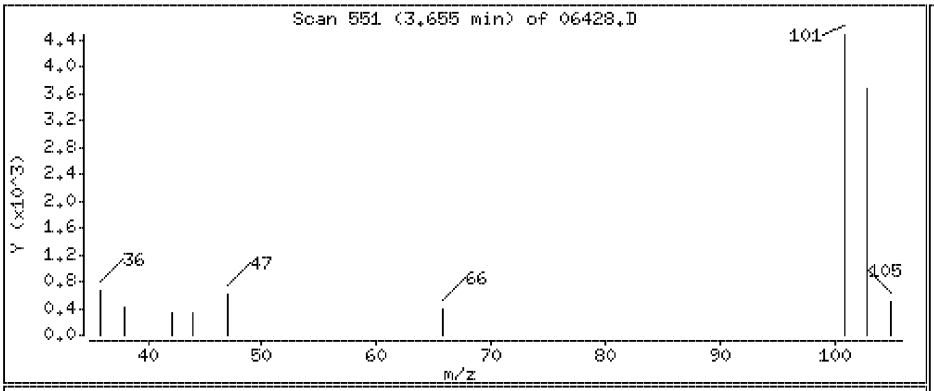
Operator: NCK

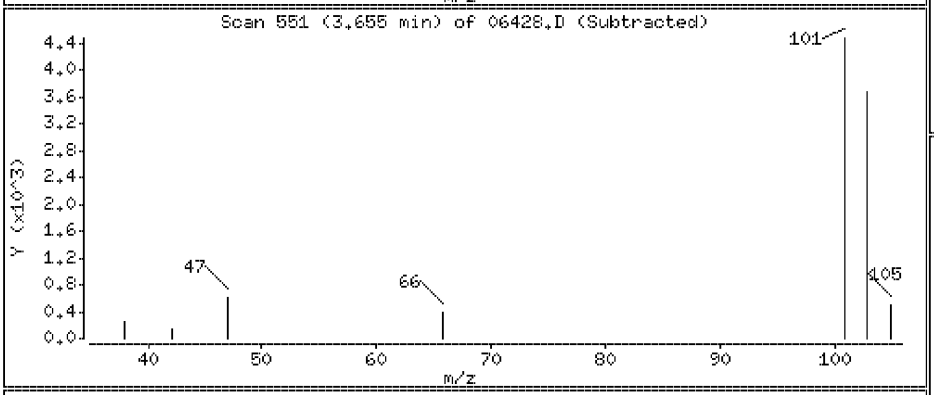
Column phase: J&W DB-5

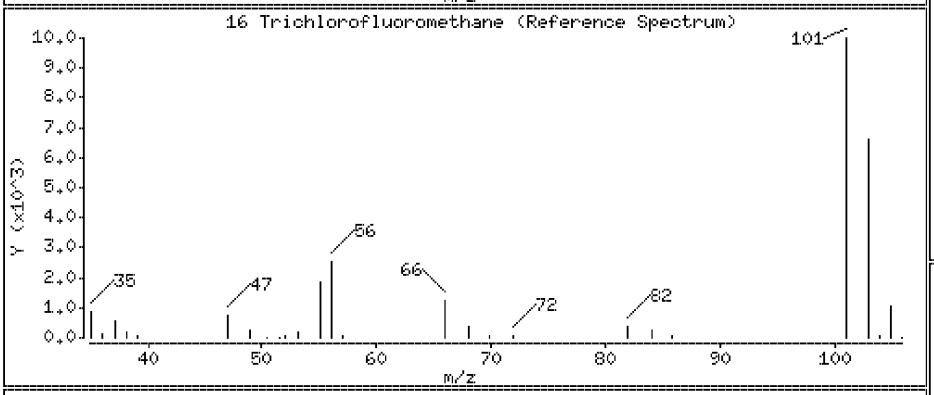
Column diameter: 0.32

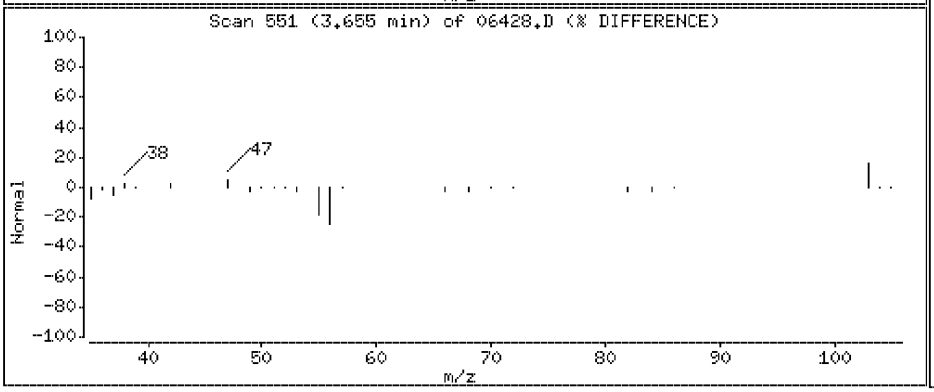
16 Trichlorofluoromethane

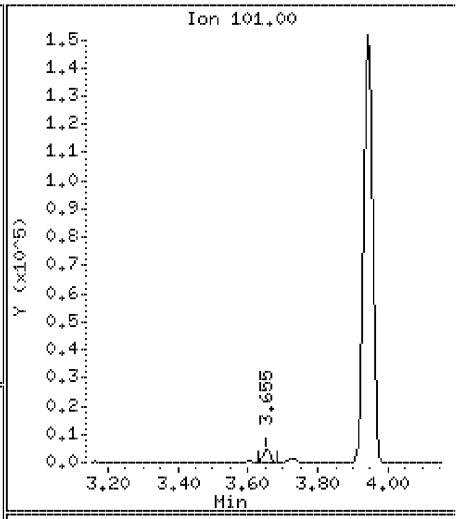
Concentration: 0.338 ppbv

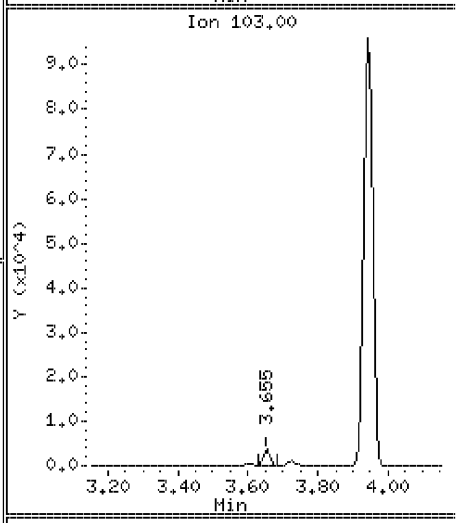


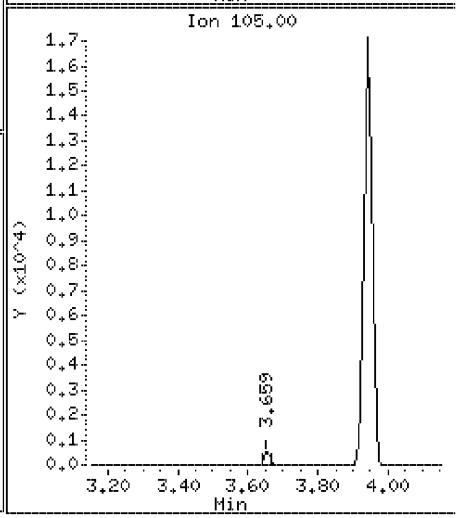












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

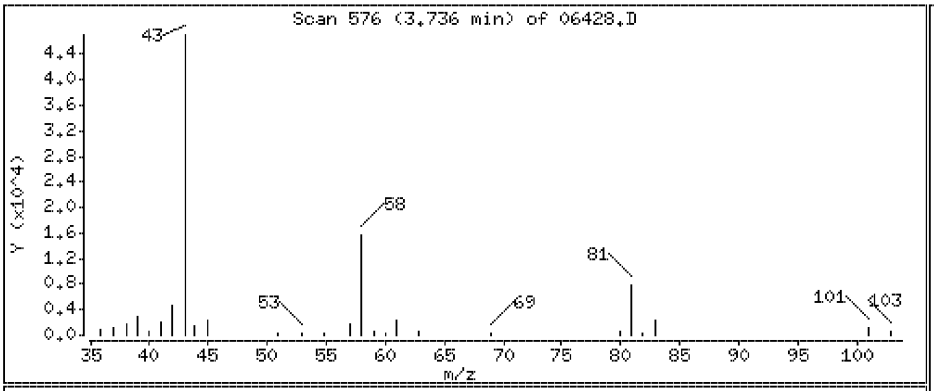
Operator: NCK

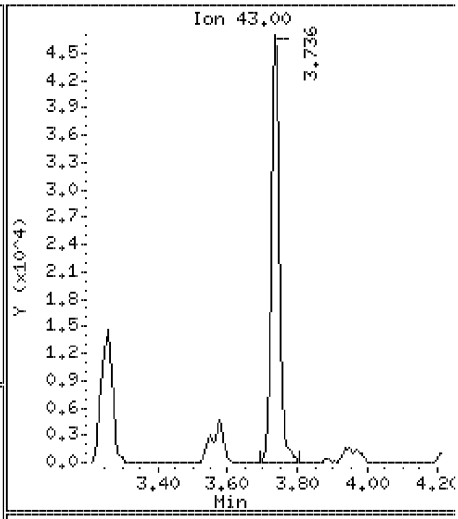
Column phase: J&W DB-5

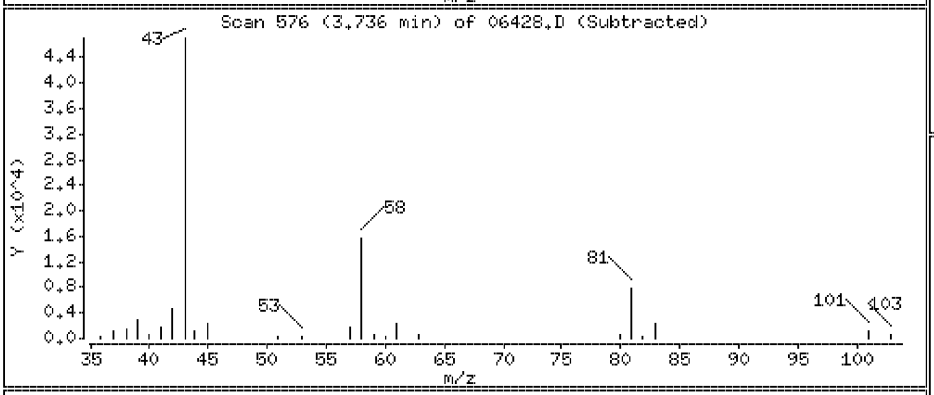
Column diameter: 0.32

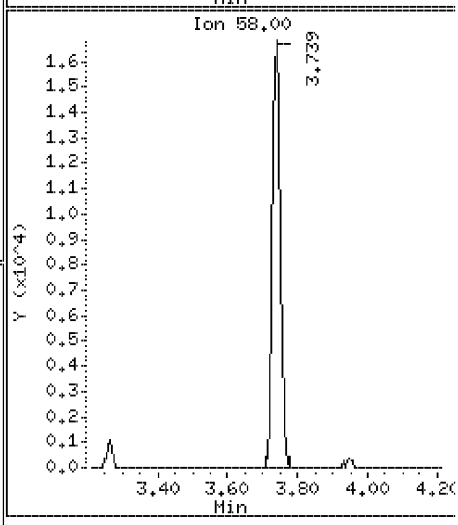
18 Acetone

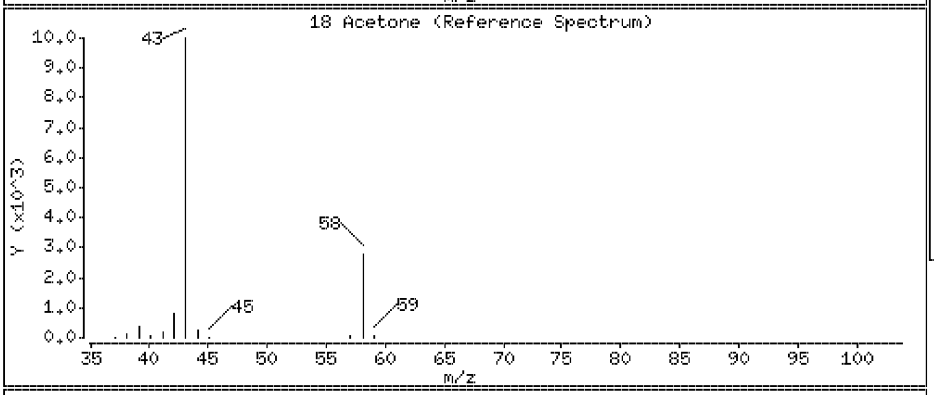
Concentration: 6.34 ppbv

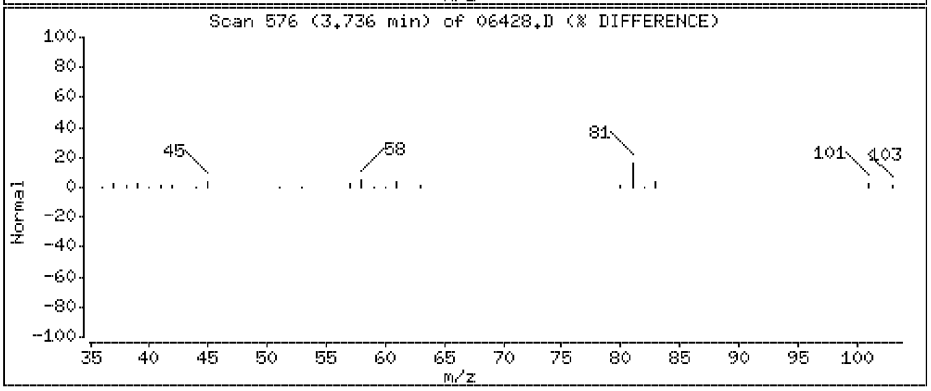












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

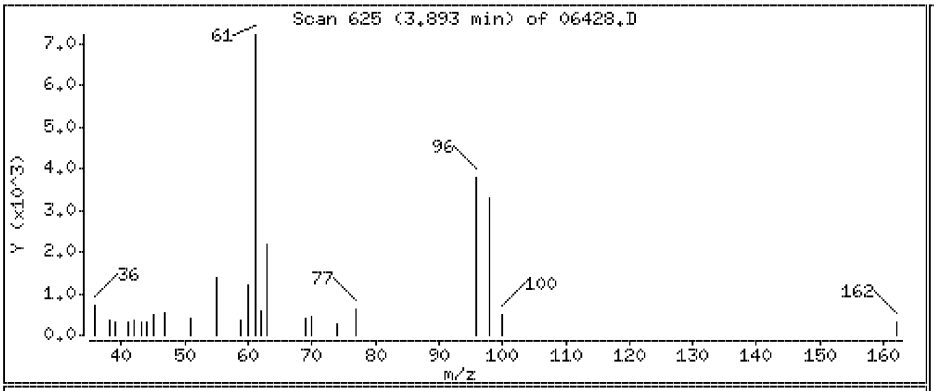
Operator: NCK

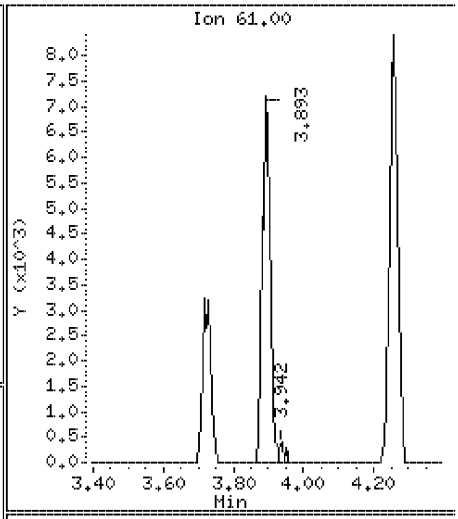
Column phase: J&W DB-5

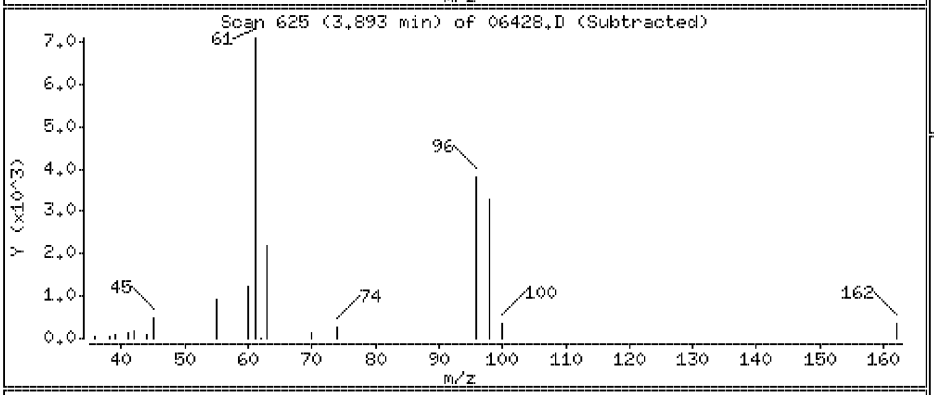
Column diameter: 0.32

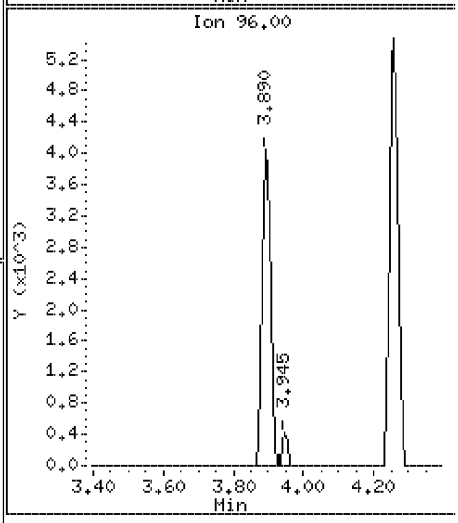
20 1,1-Dichloroethene

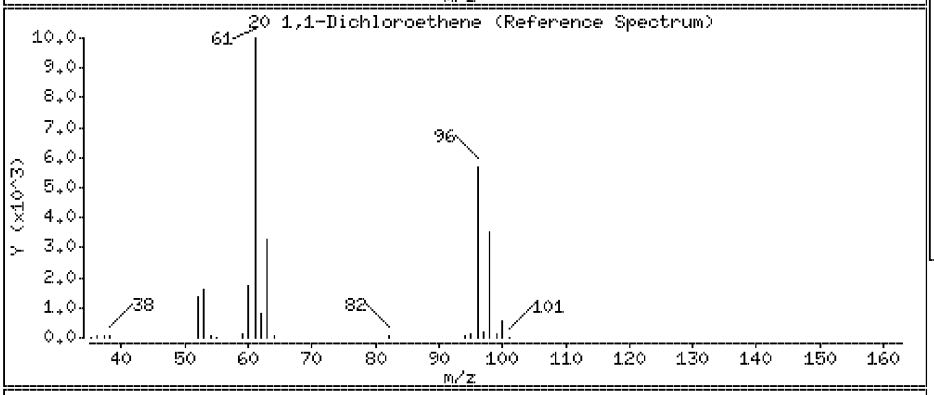
Concentration: 0.945 ppbv

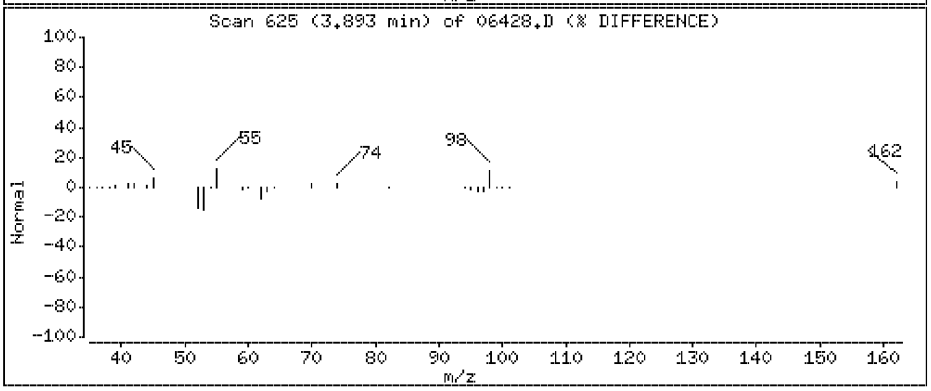












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

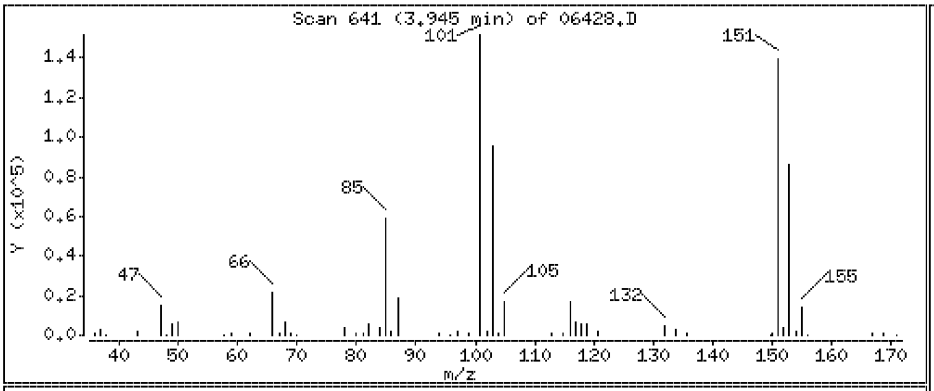
Operator: NCK

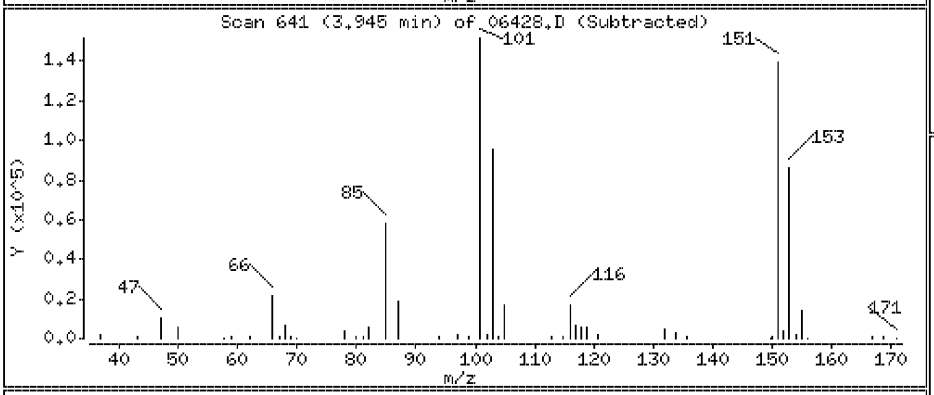
Column phase: J&W DB-5

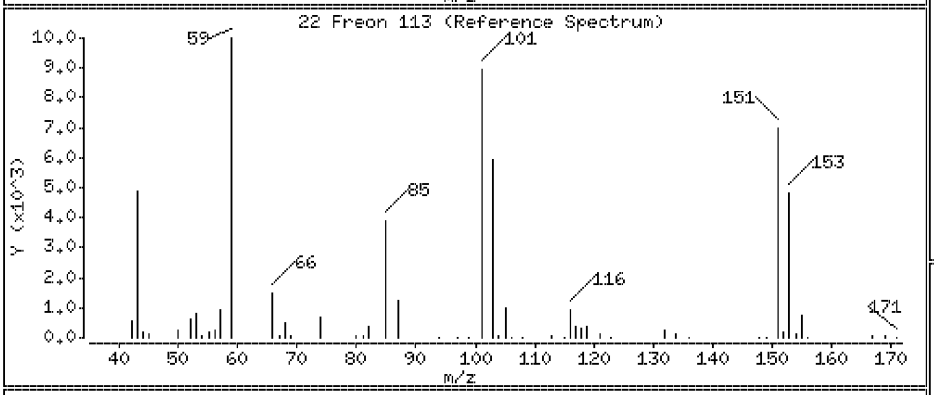
Column diameter: 0.32

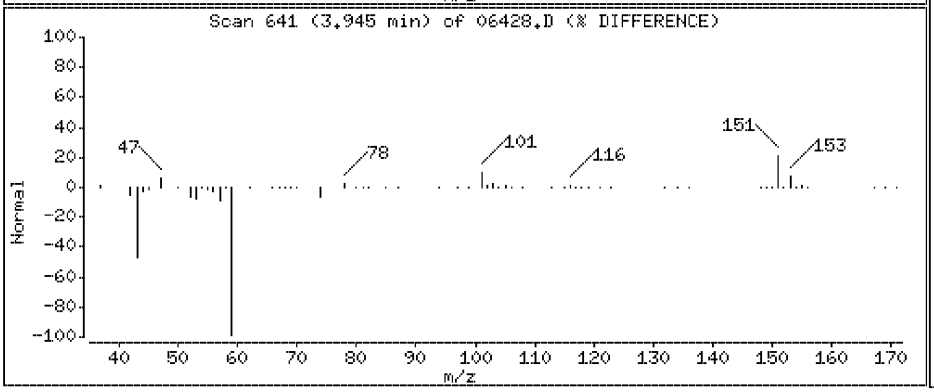
22 Freon 113

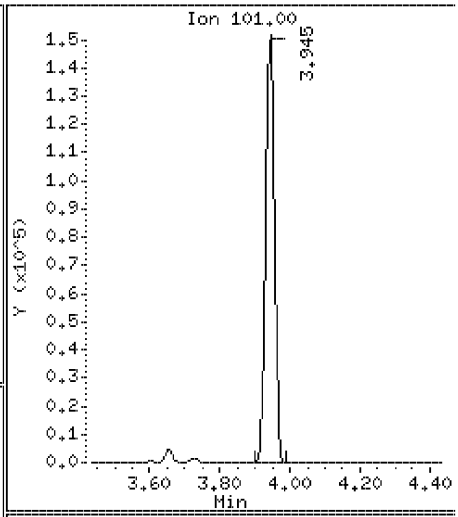
Concentration: 17.6 ppbv

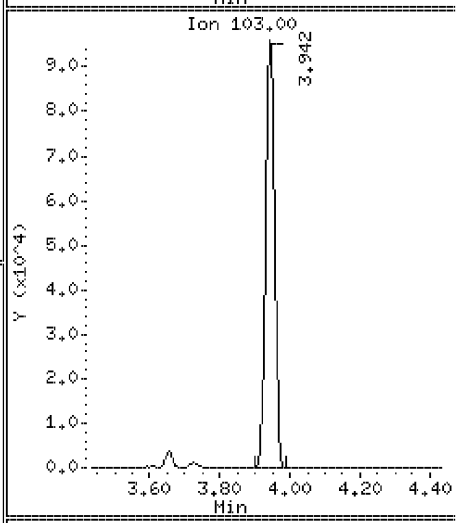


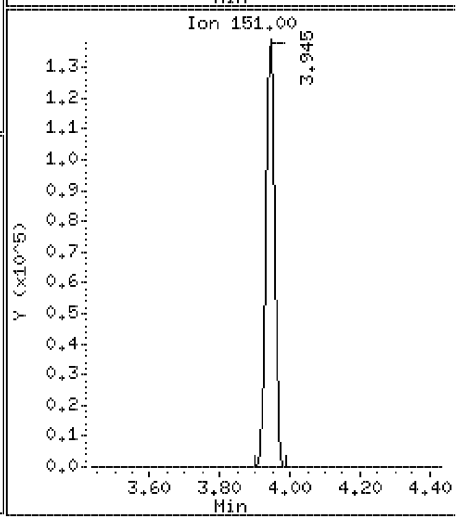












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

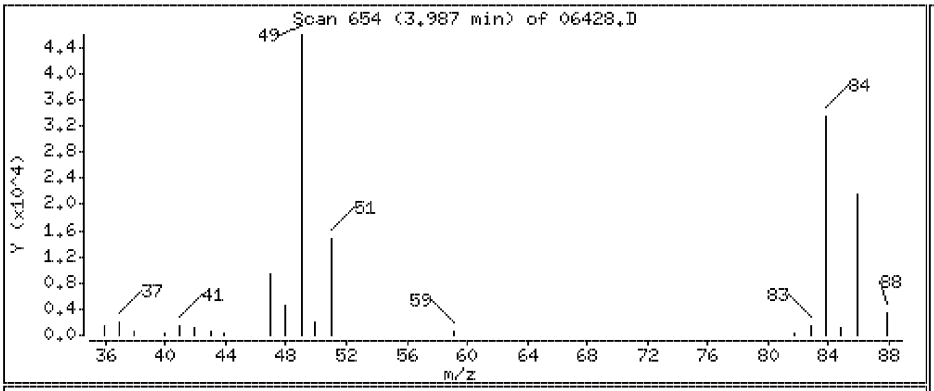
Operator: NCK

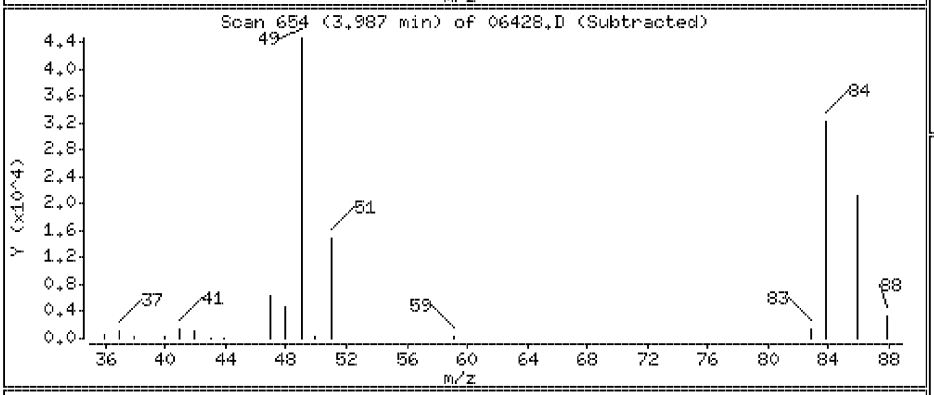
Column phase: J&W DB-5

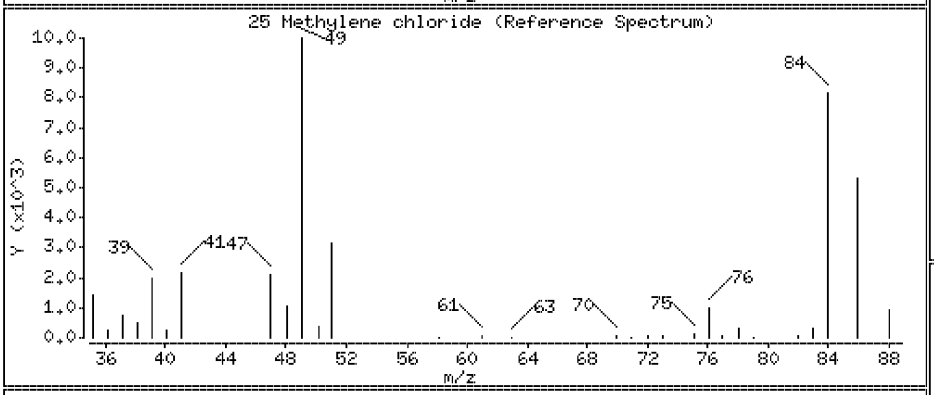
Column diameter: 0.32

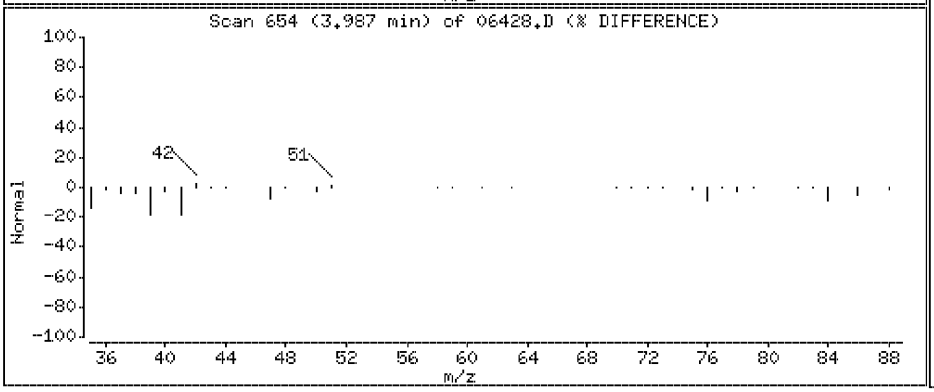
25 Methylene chloride

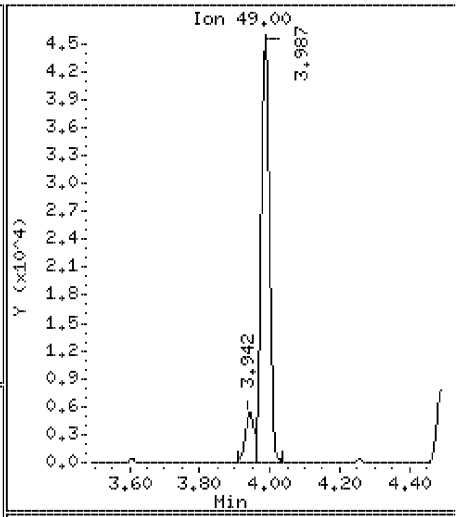
Concentration: 9.17 ppbv

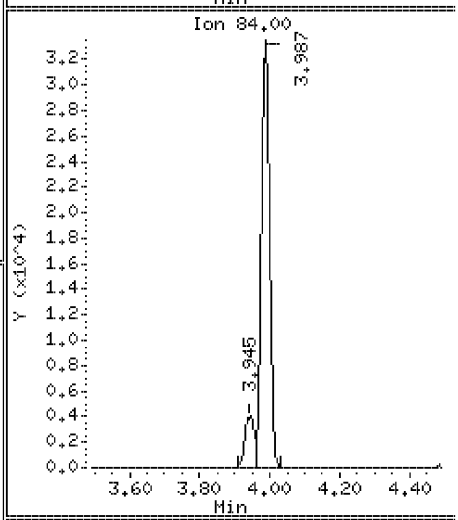


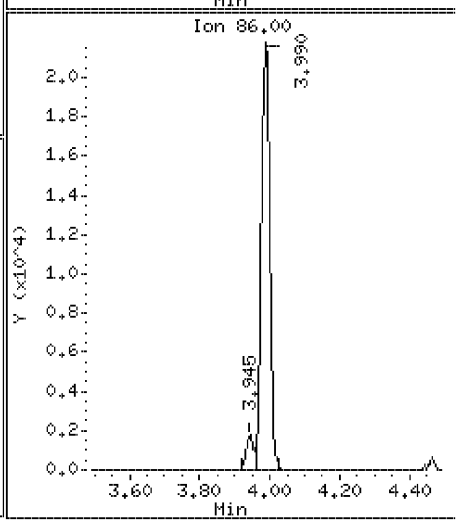












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

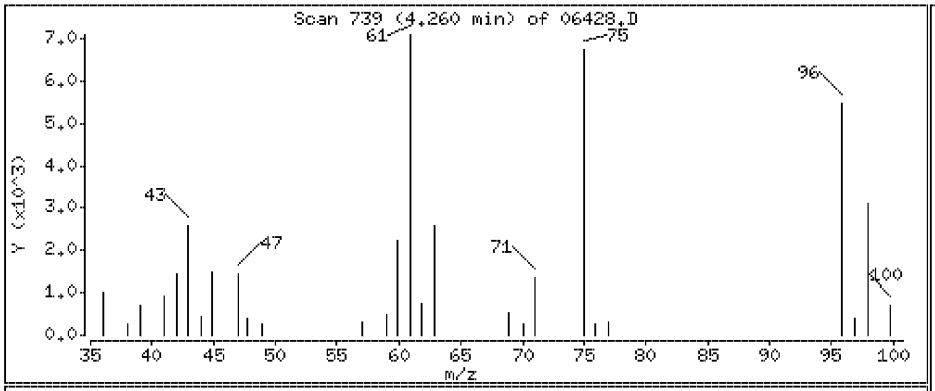
Operator: NCK

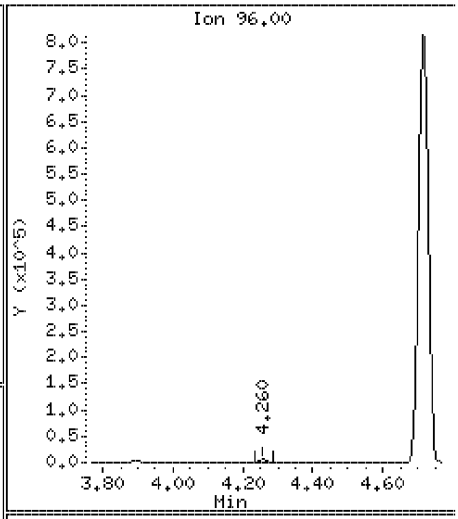
Column phase: J&W DB-5

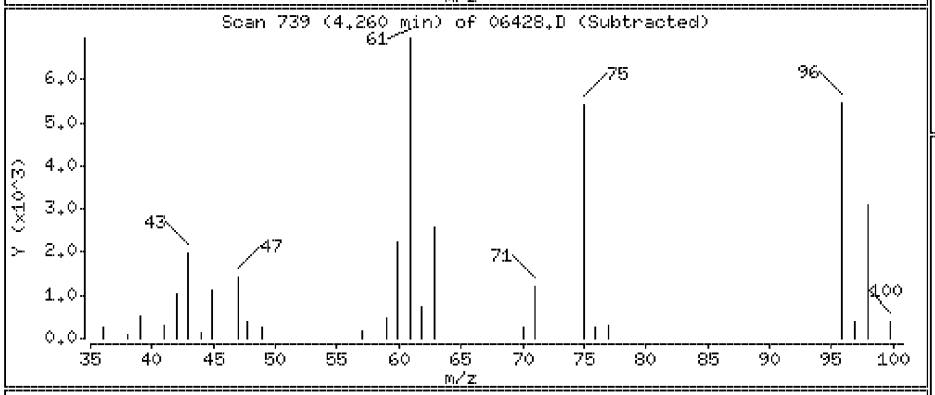
Column diameter: 0.32

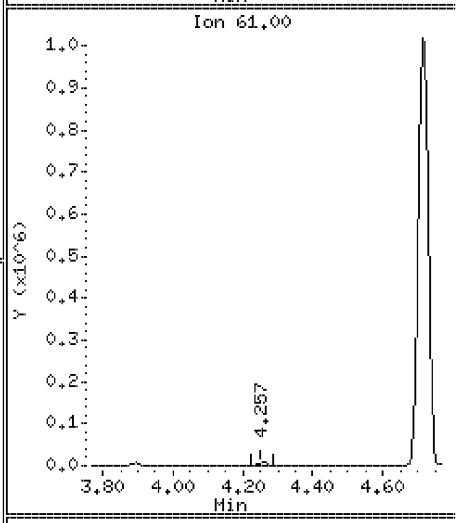
28 trans-1,2-dichloroethene

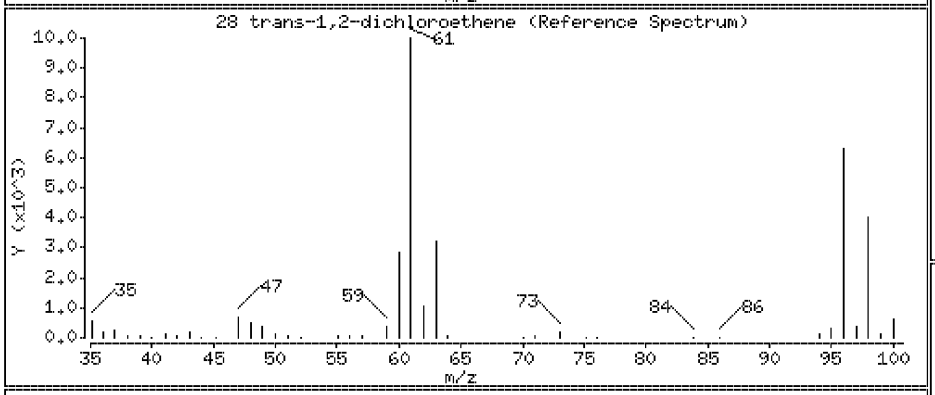
Concentration: 1.34 ppbv

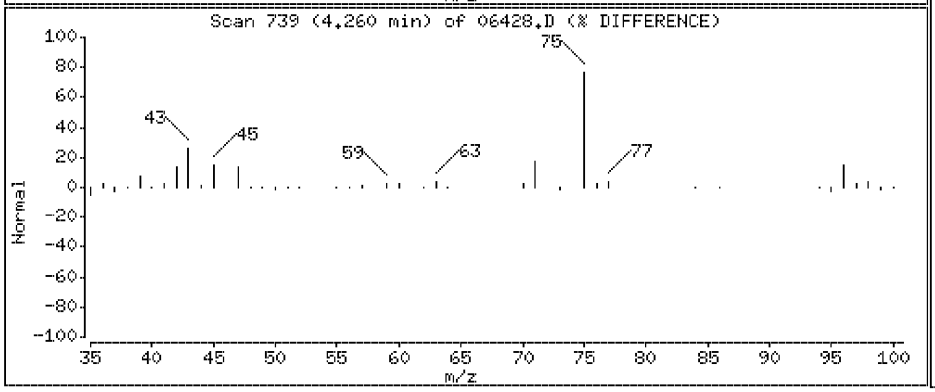


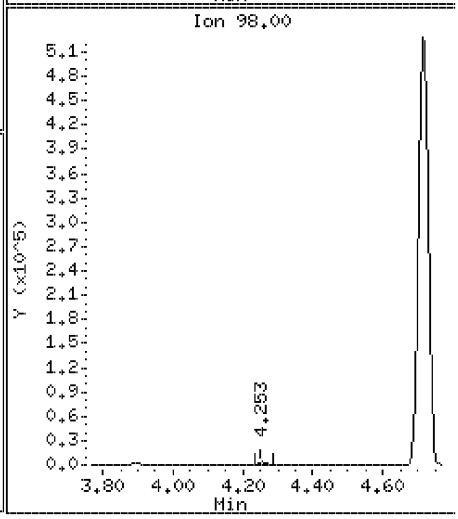












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

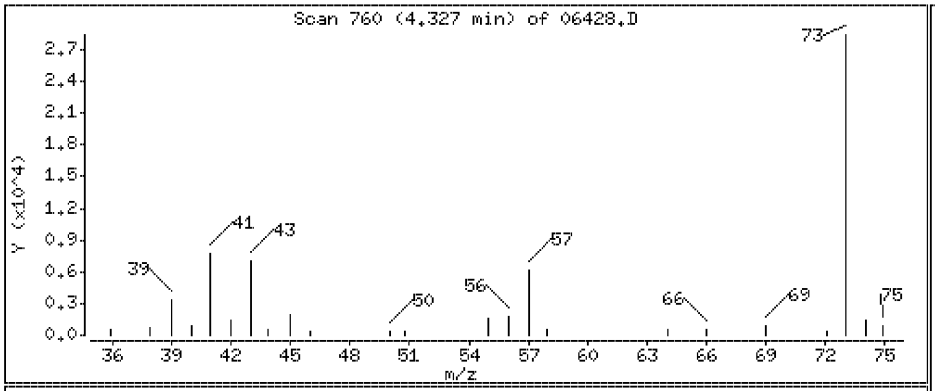
Operator: NCK

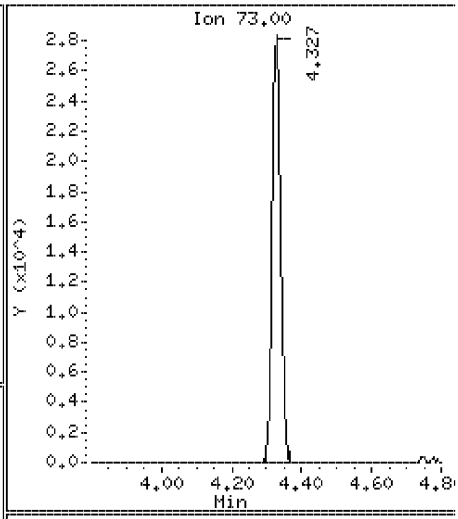
Column phase: J&W DB-5

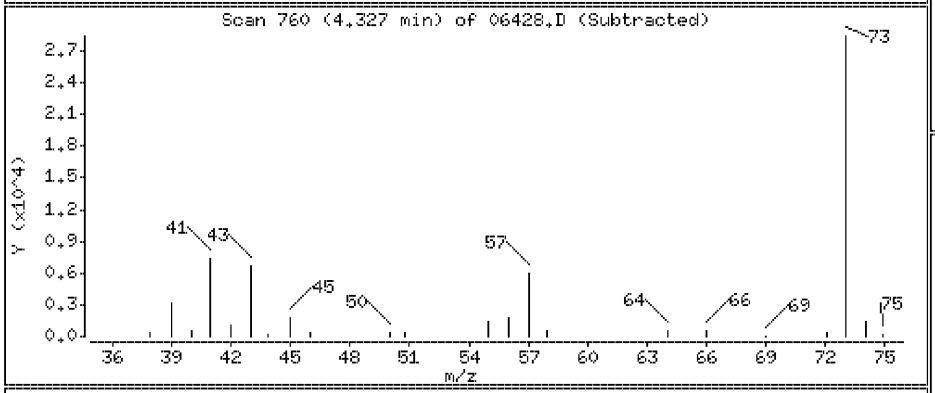
Column diameter: 0.32

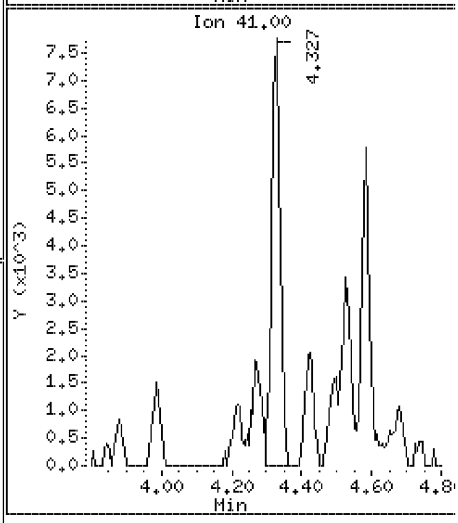
29 Methyl Tert Butyl Ether

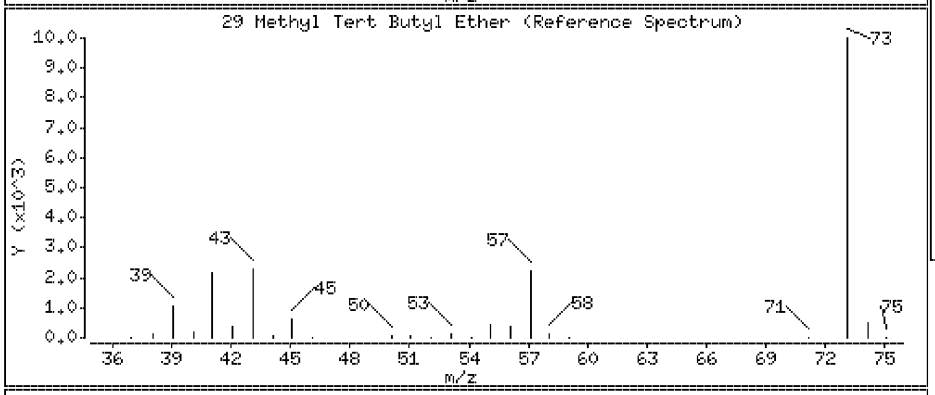
Concentration: 2.51 ppbv

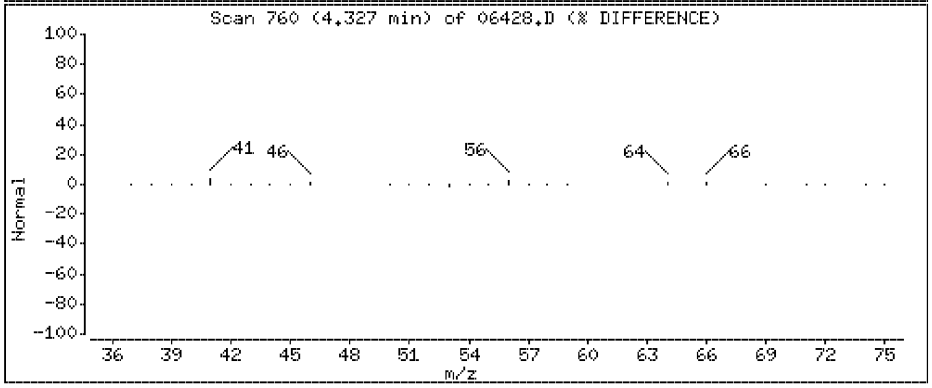












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

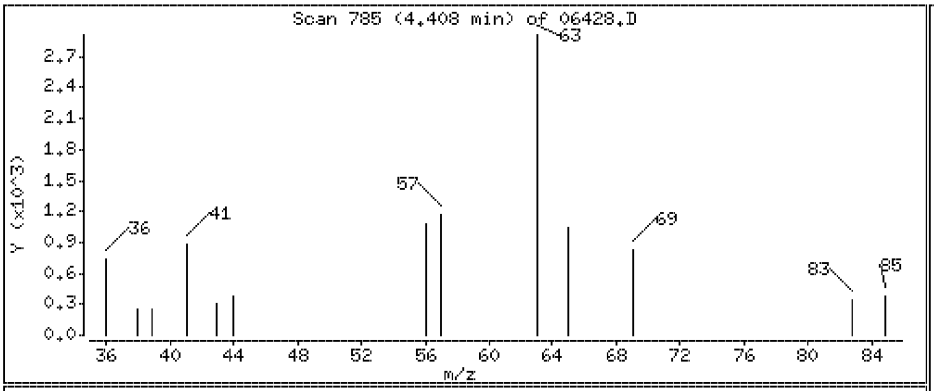
Operator: NCK

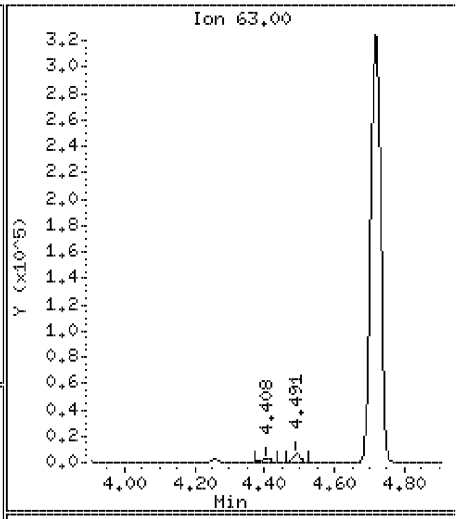
Column phase: J&W DB-5

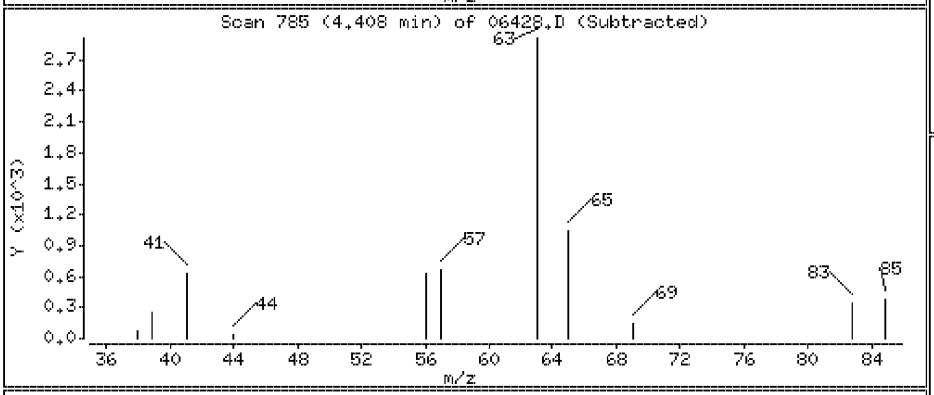
Column diameter: 0.32

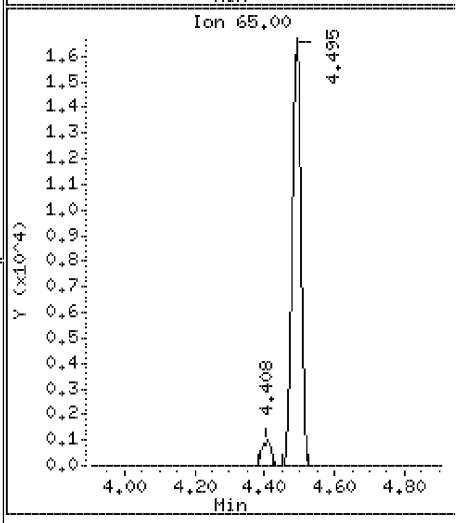
31 1,1-Dichloroethane

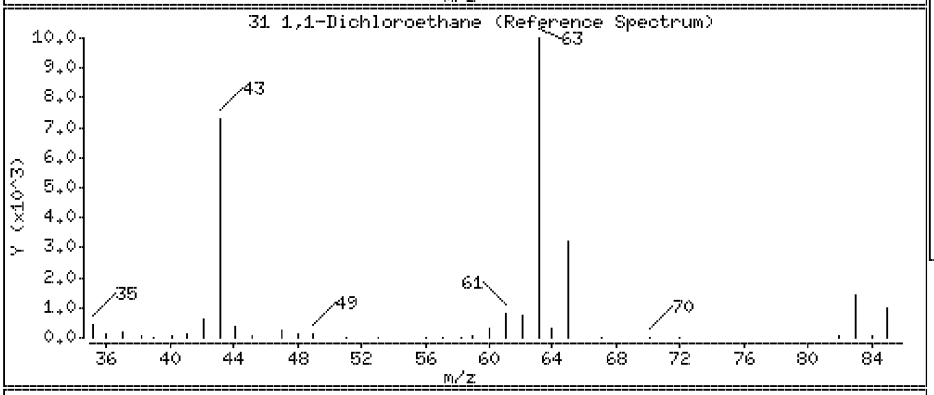
Concentration: 0.464 ppbv

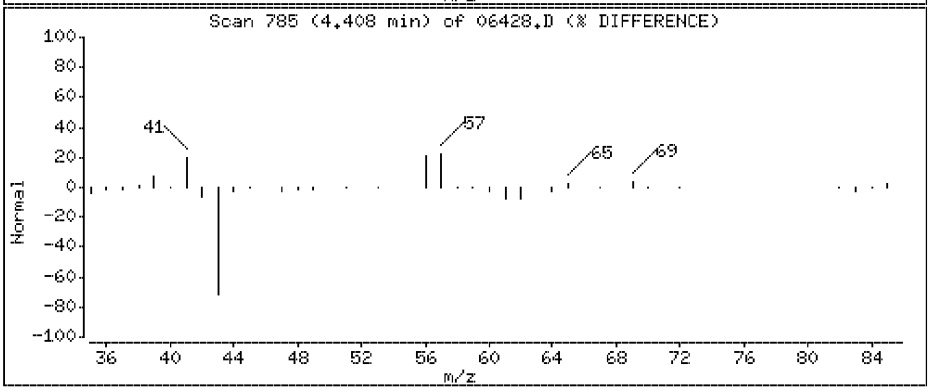












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

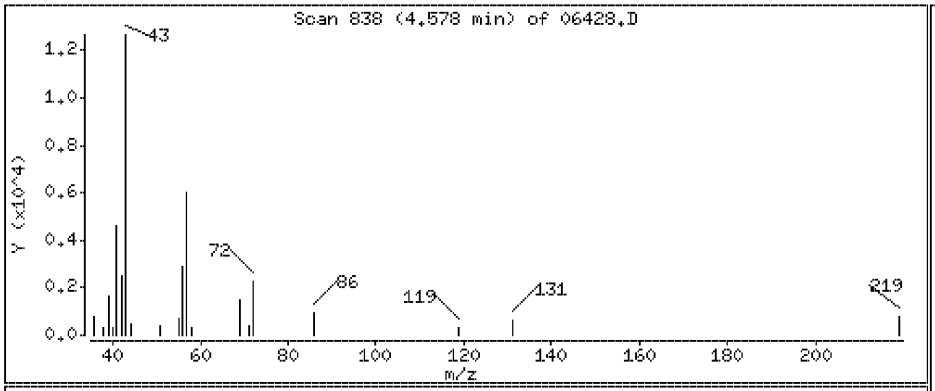
Operator: NCK

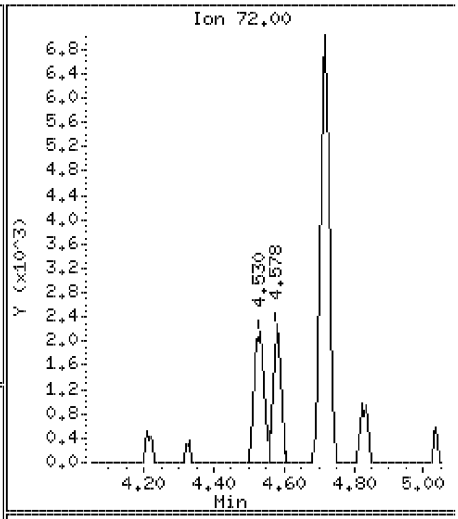
Column phase: J&W DB-5

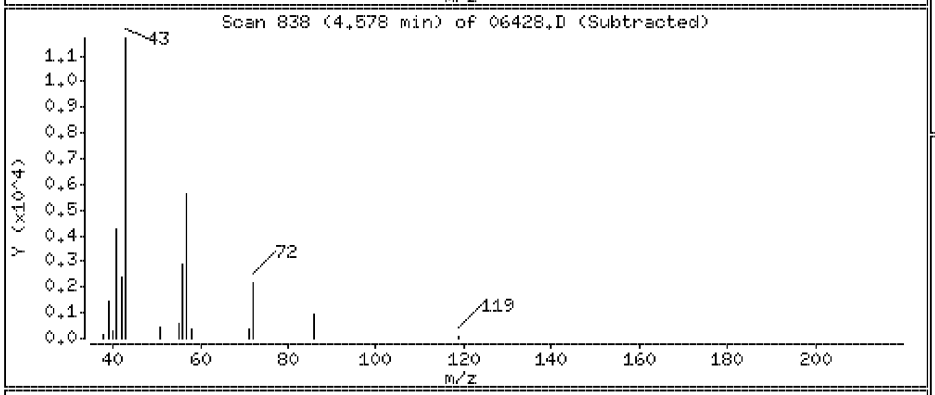
Column diameter: 0.32

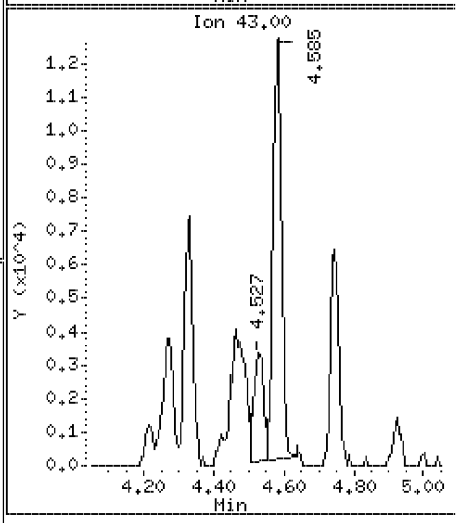
33 Methyl Ethyl Ketone

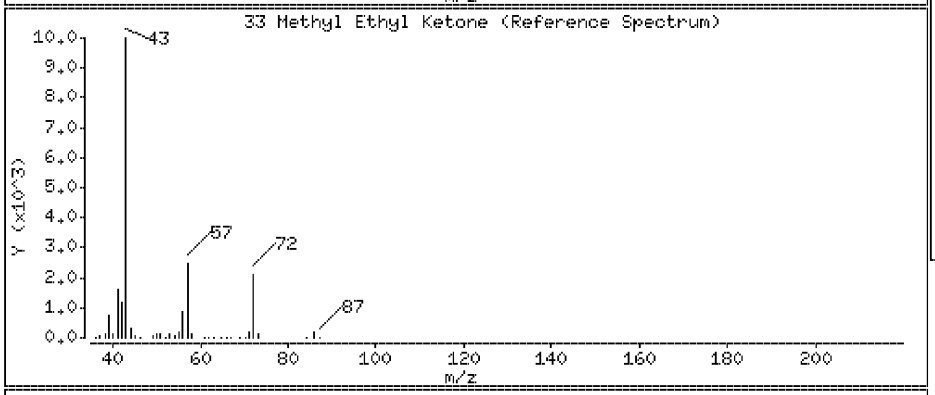
Concentration: 1.13 ppbv

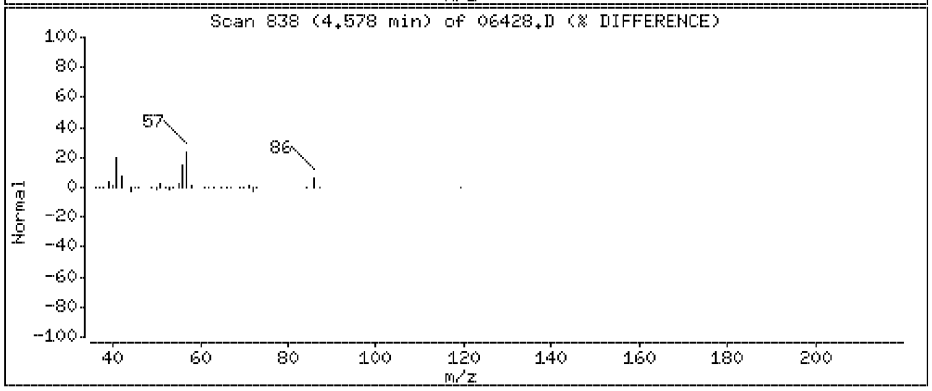












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

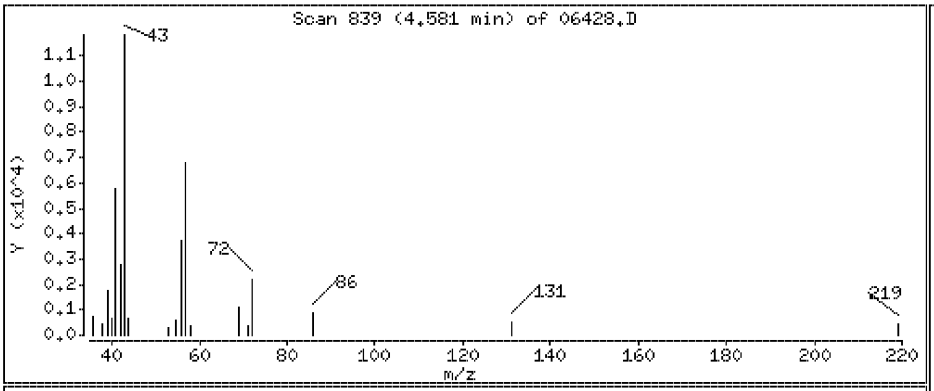
Operator: NCK

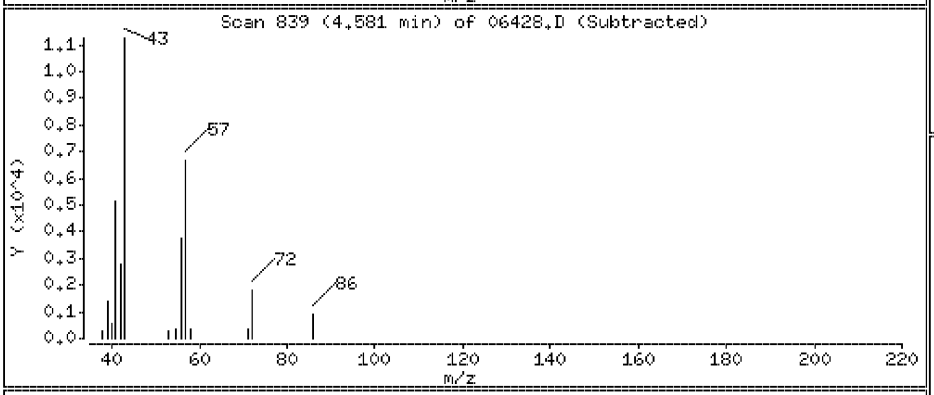
Column phase: J&W DB-5

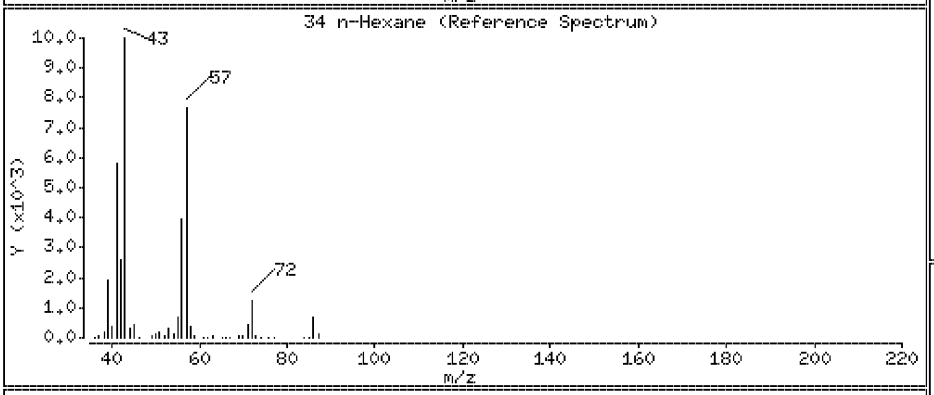
Column diameter: 0.32

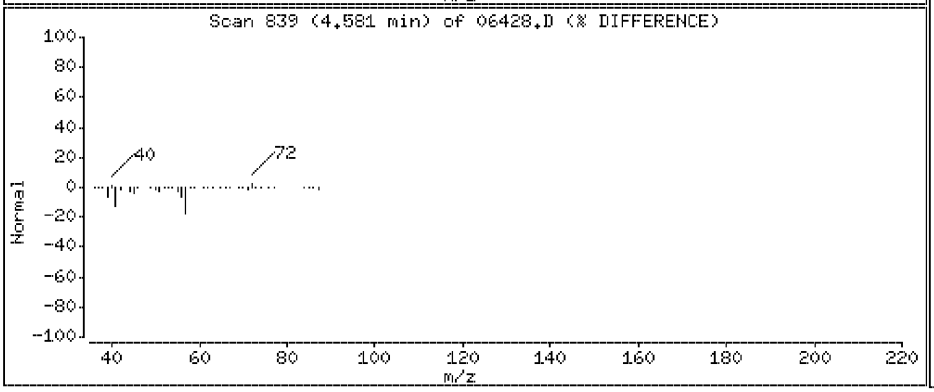
34 n-Hexane

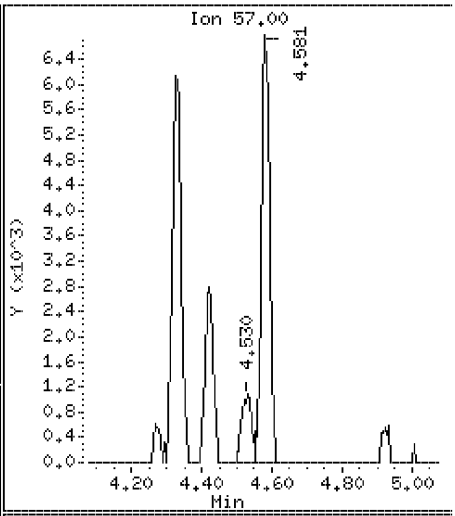
Concentration: 0.952 ppbv

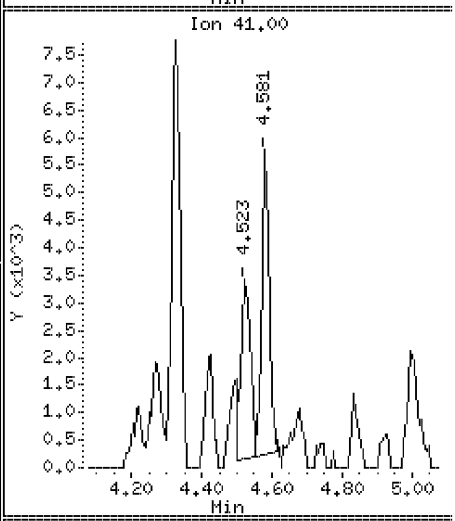


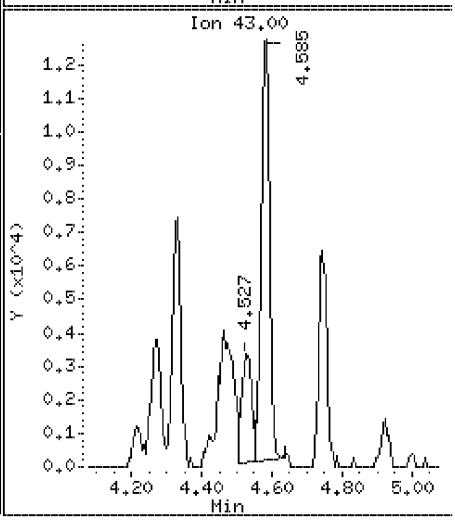












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

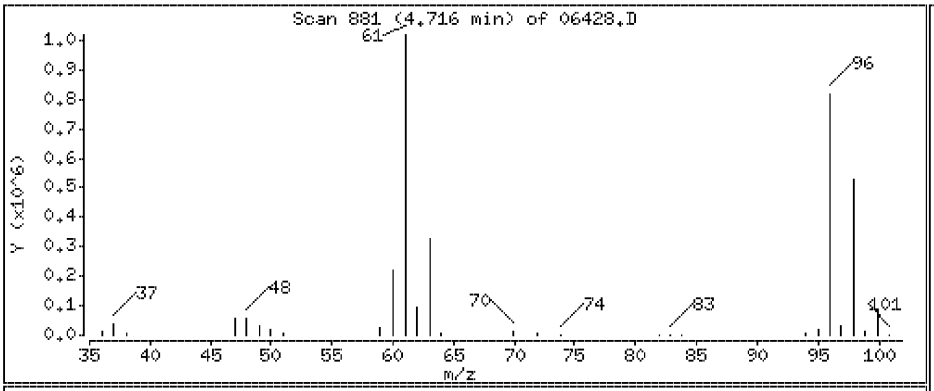
Operator: NCK

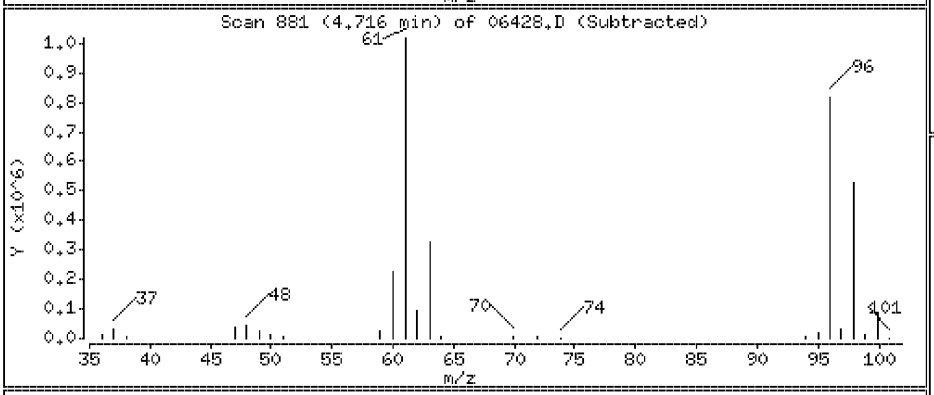
Column phase: J&W DB-5

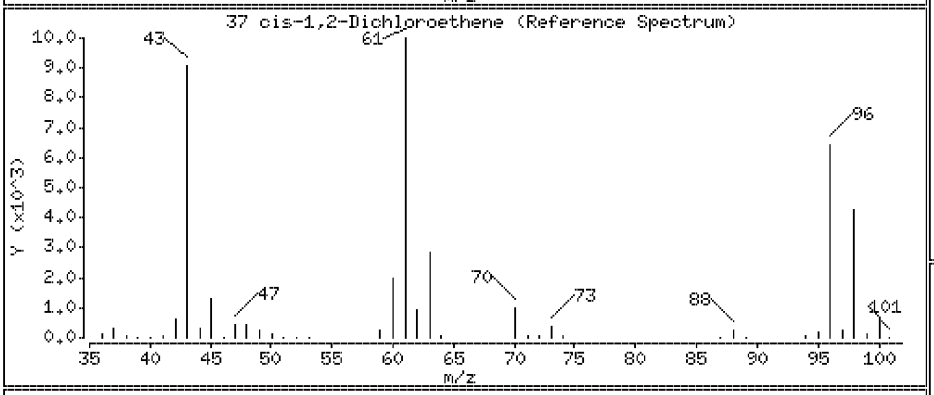
Column diameter: 0.32

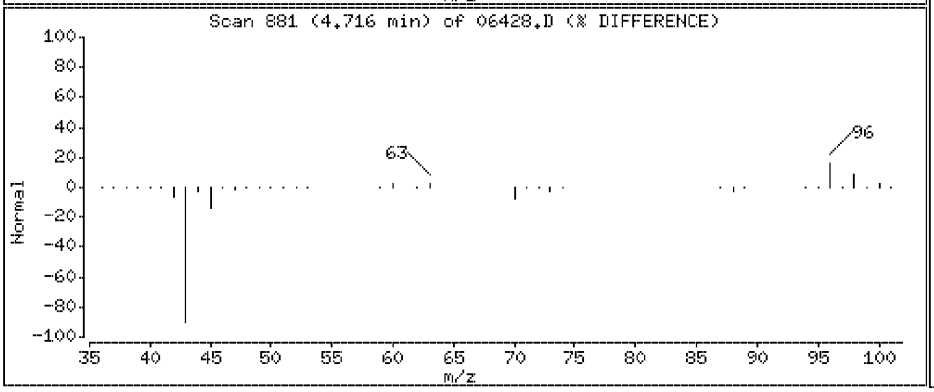
37 cis-1,2-Dichloroethene

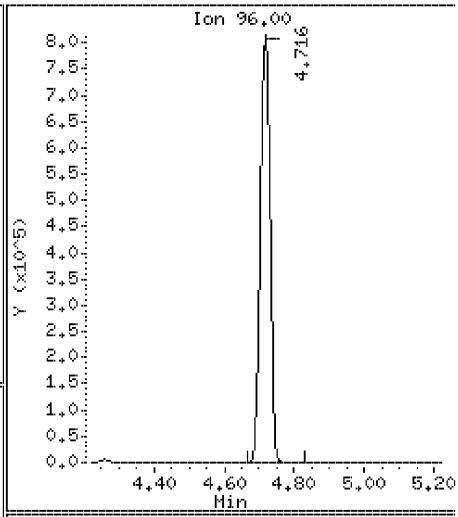
Concentration: 218 ppbv

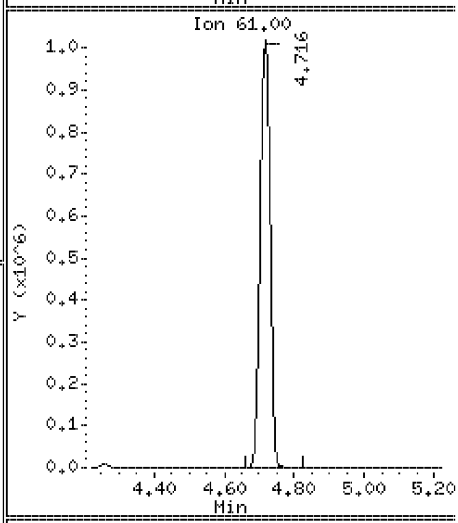


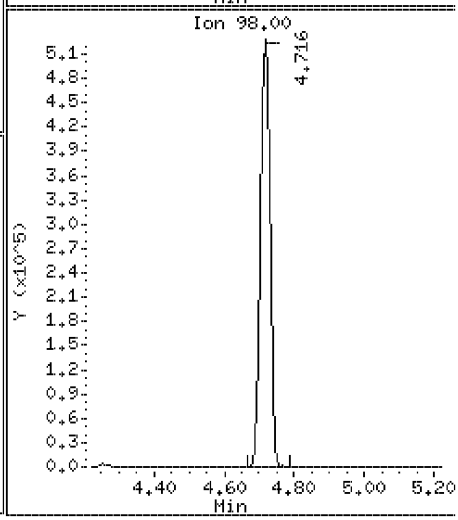












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

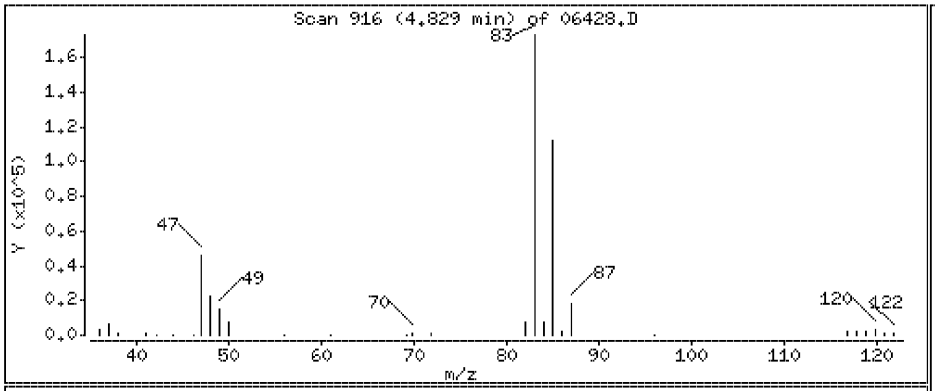
Operator: NCK

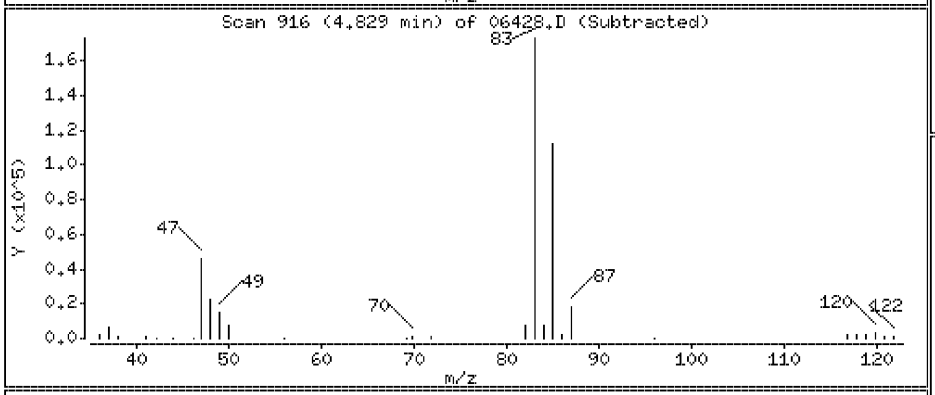
Column phase: J&W DB-5

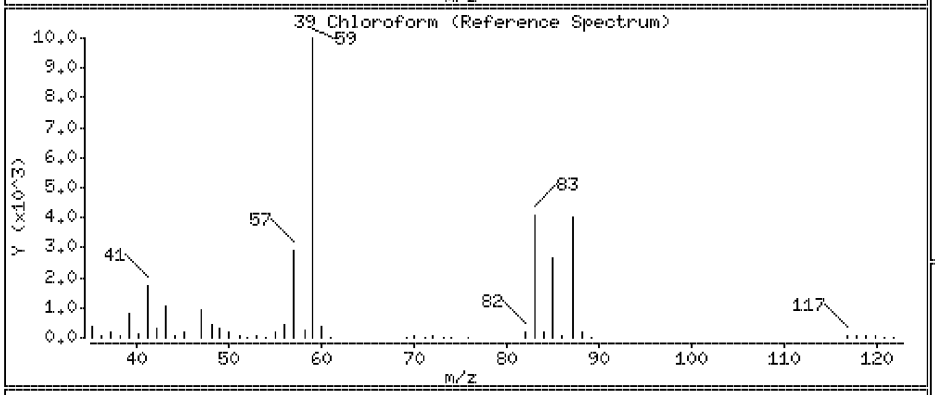
Column diameter: 0.32

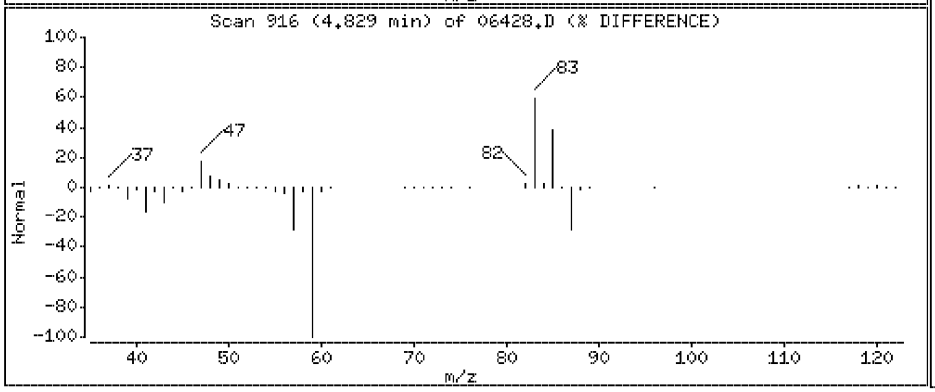
39 Chloroform

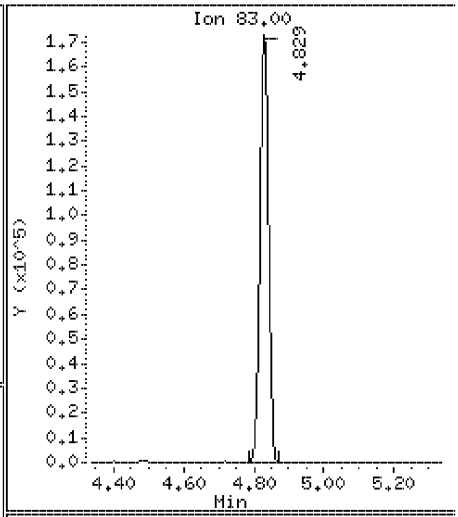
Concentration: 19.3 ppbv

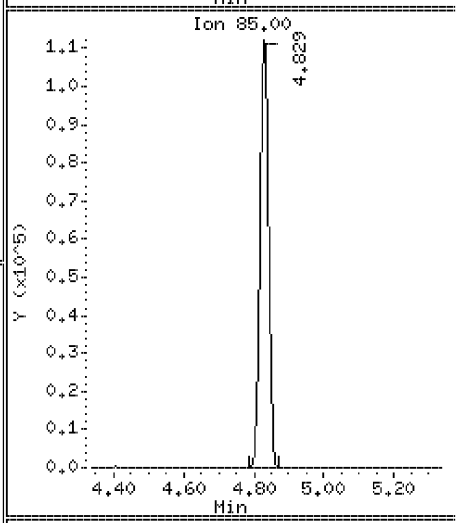


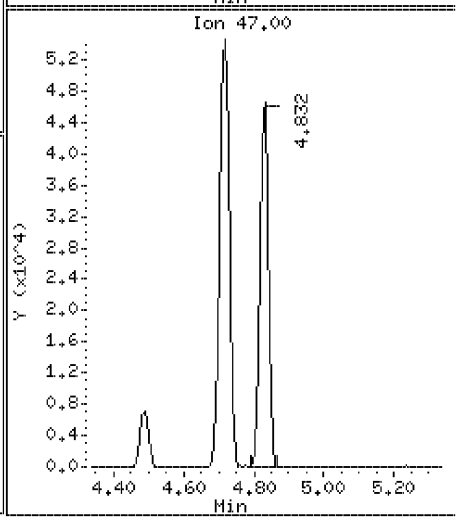












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

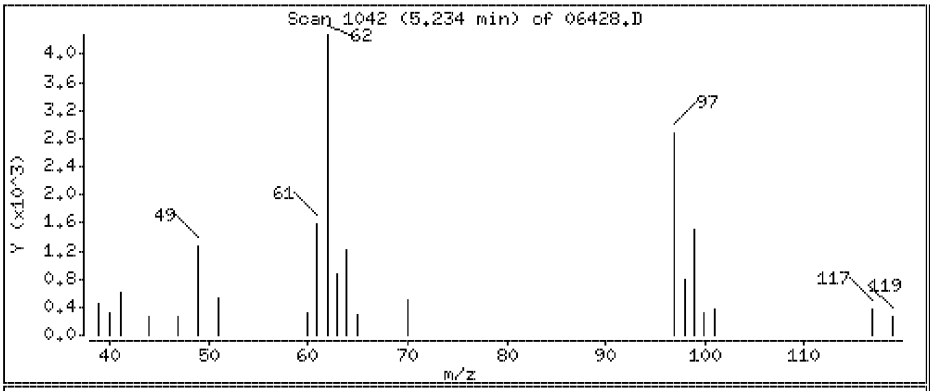
Operator: NCK

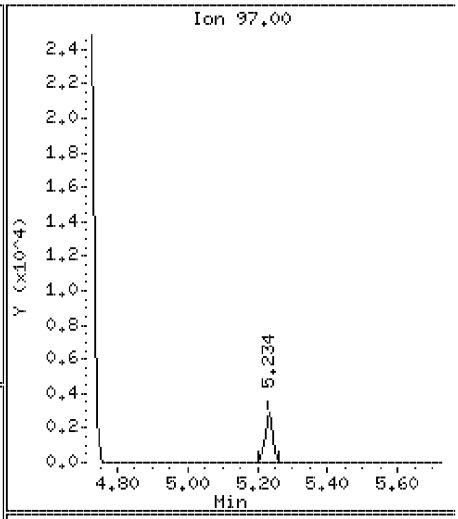
Column phase: J&W DB-5

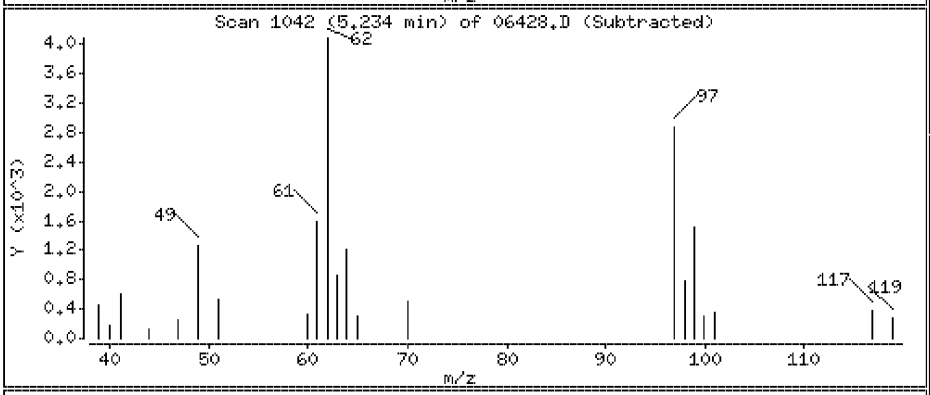
Column diameter: 0.32

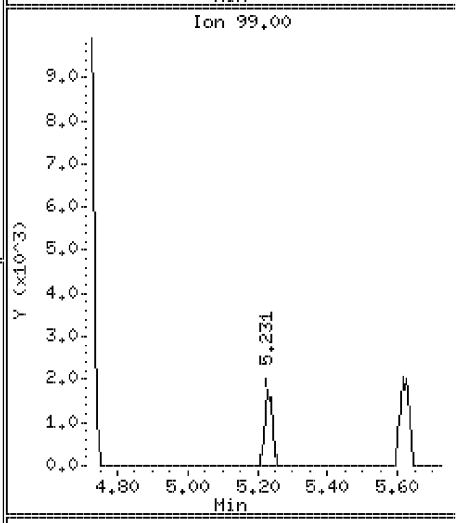
41 1,1,1-Trichloroethane

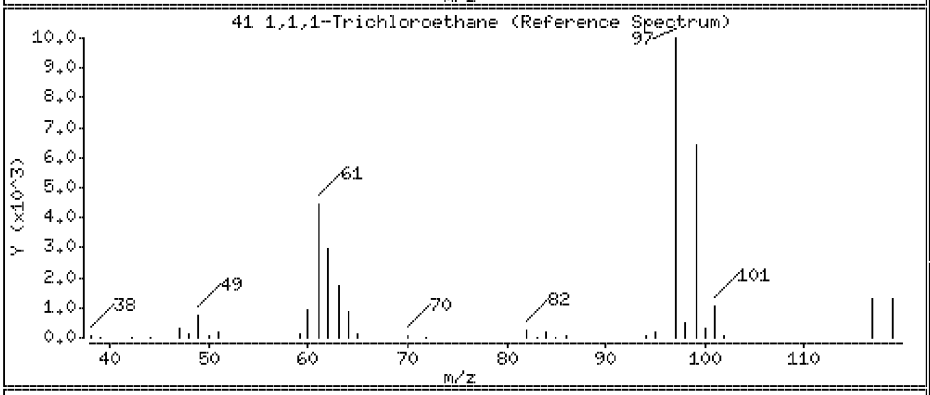
Concentration: 0.232 ppbv

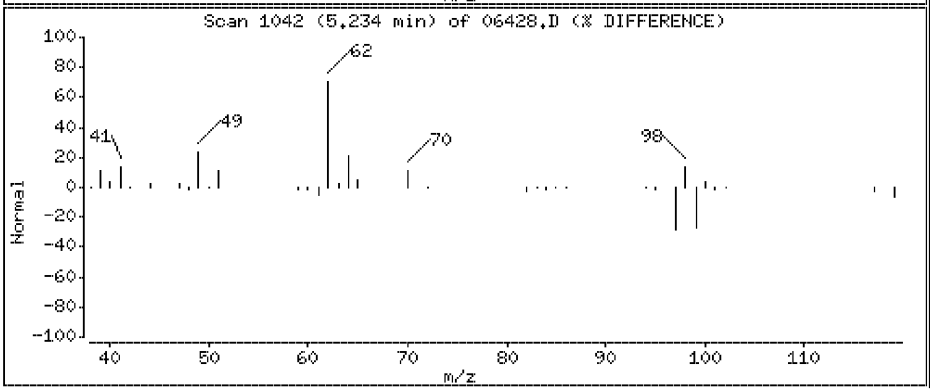


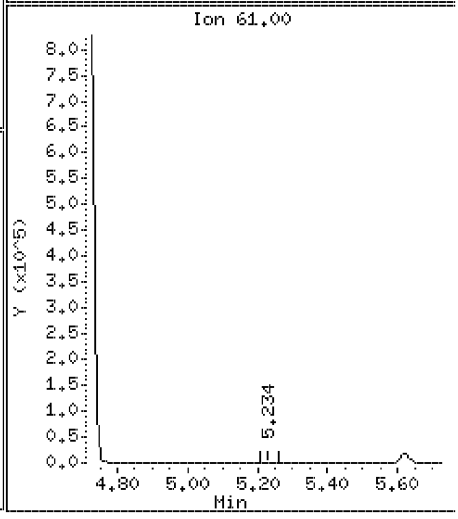












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

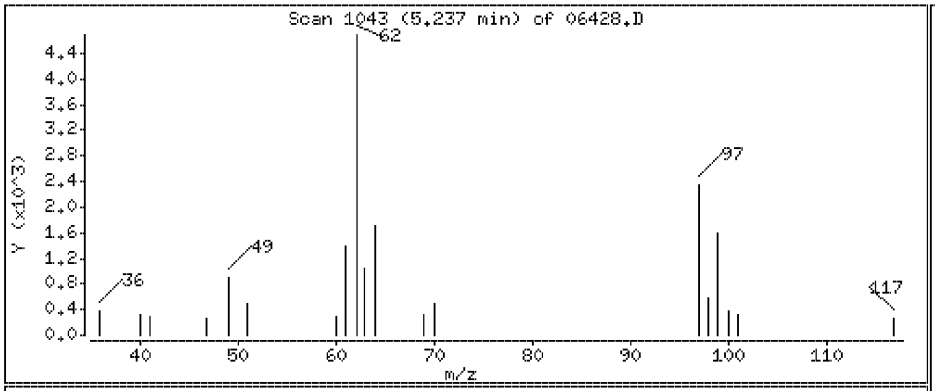
Operator: NCK

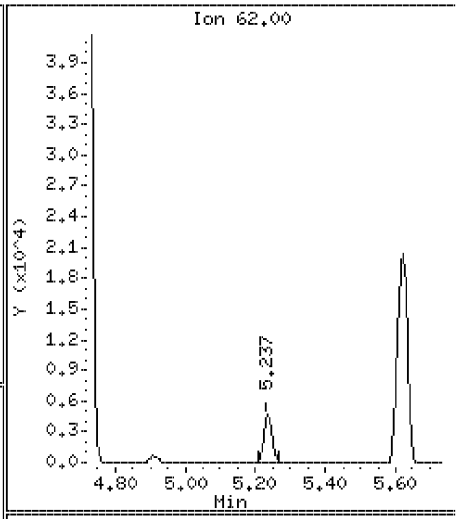
Column phase: J&W DB-5

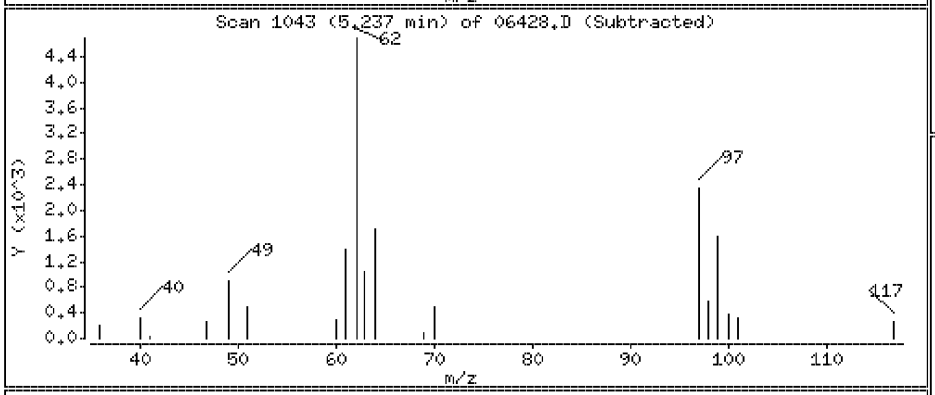
Column diameter: 0.32

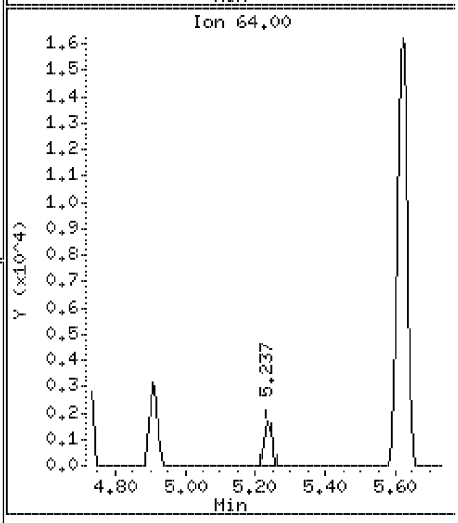
42 1,2-Dichloroethane

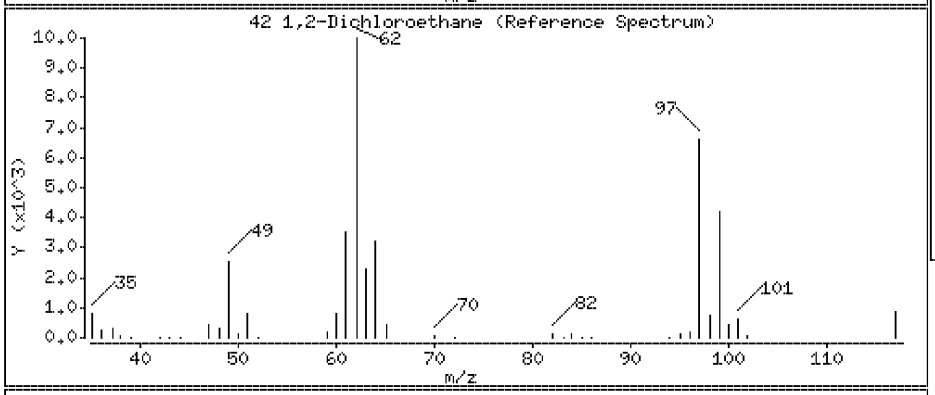
Concentration: 0.548 ppbv

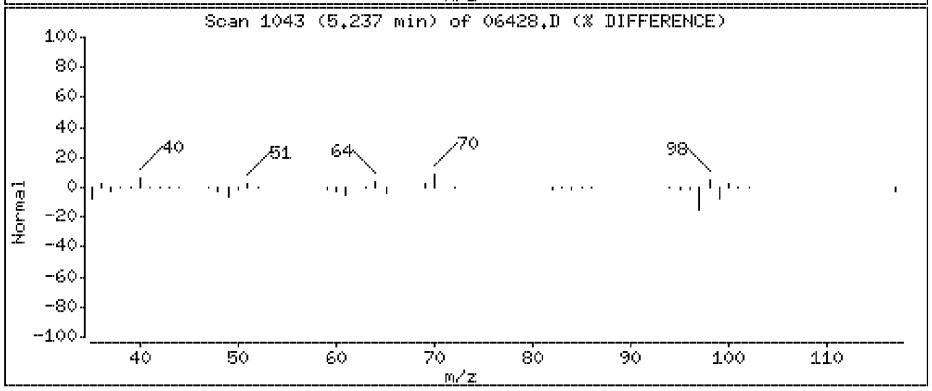












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

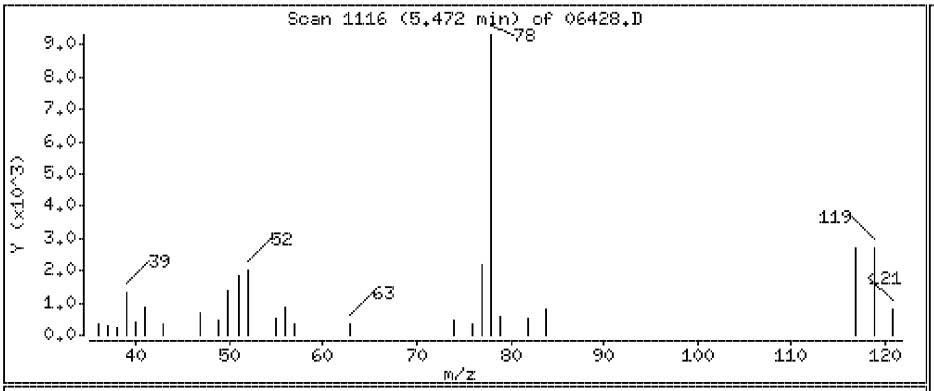
Operator: NCK

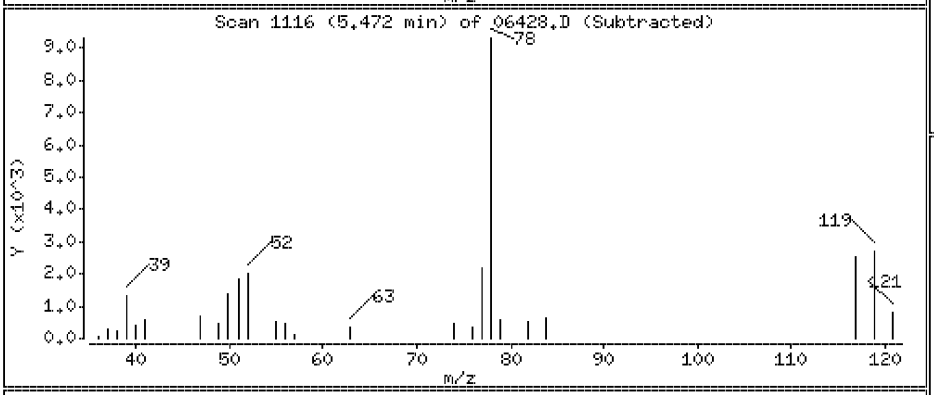
Column phase: J&W DB-5

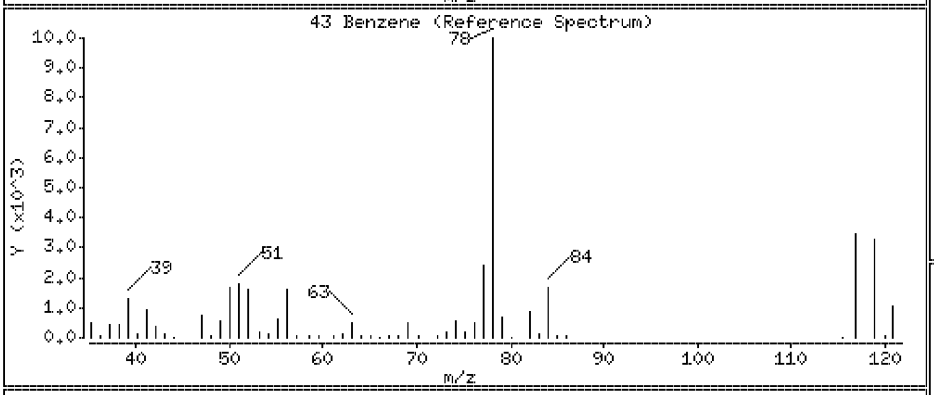
Column diameter: 0.32

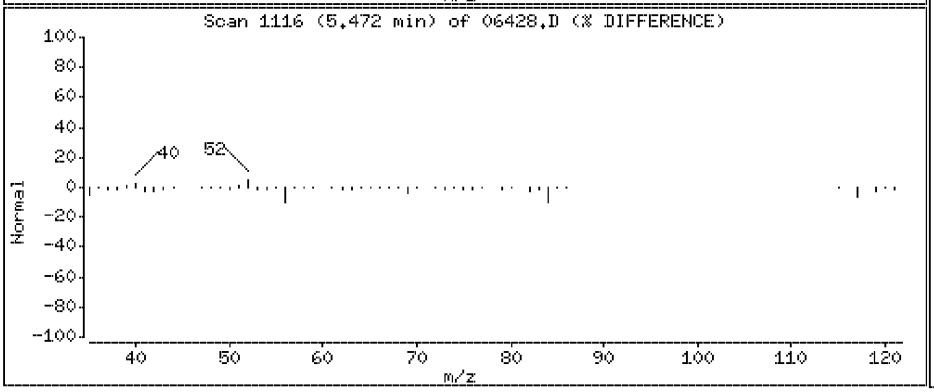
43 Benzene

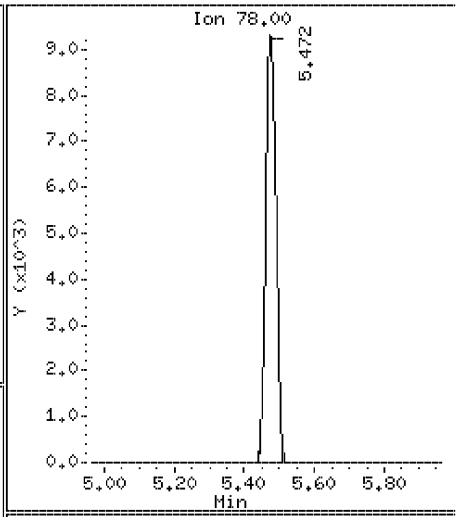
Concentration: 0.824 ppbv

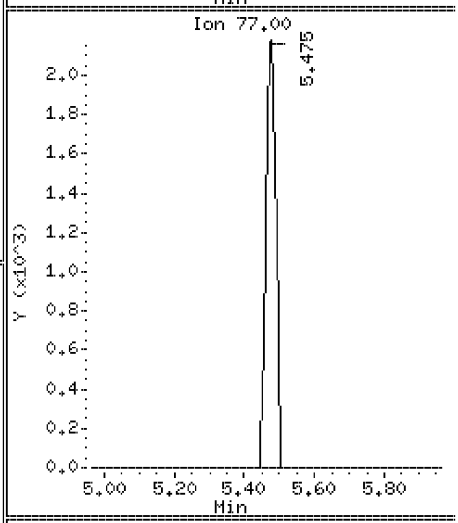


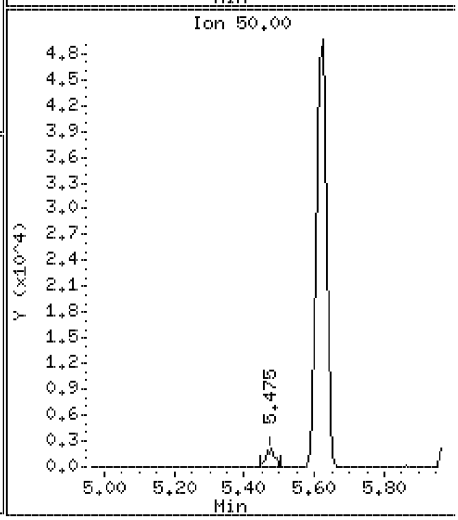












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

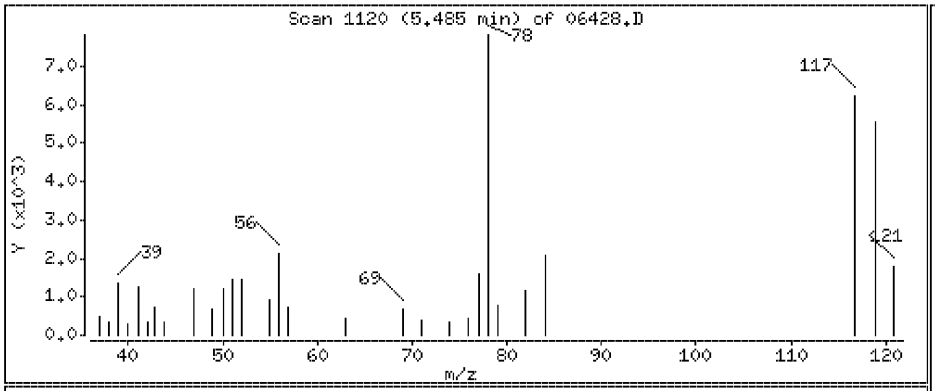
Operator: NCK

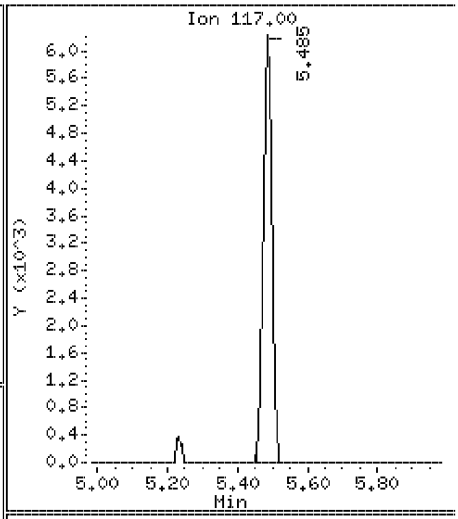
Column phase: J&W DB-5

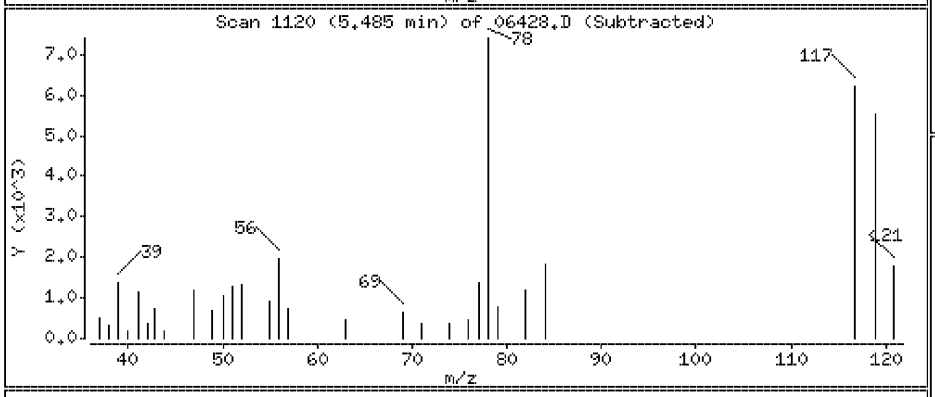
Column diameter: 0.32

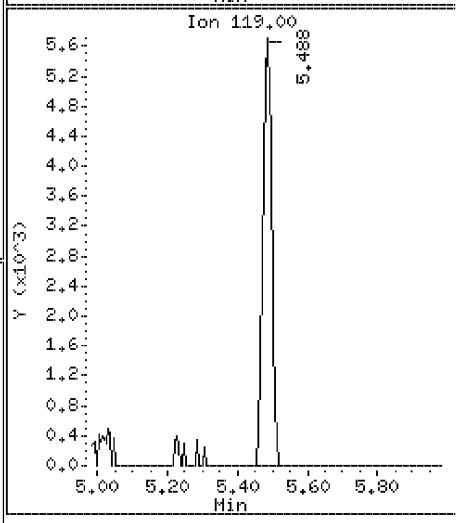
44 Carbon tetrachloride

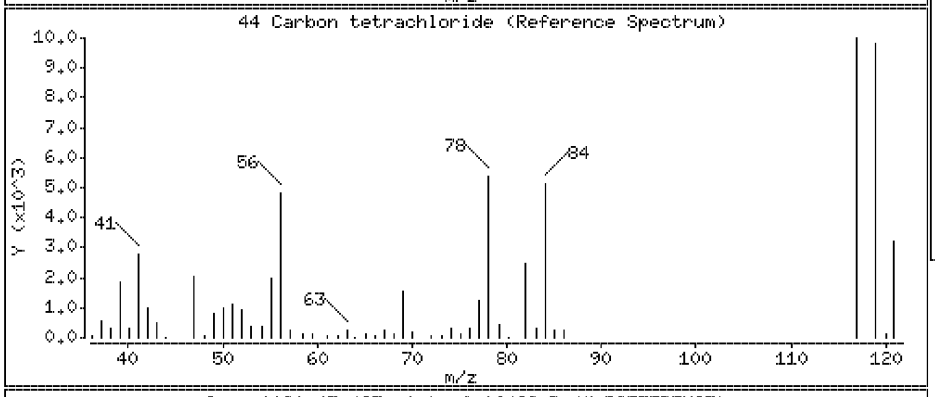
Concentration: 0.597 ppbv

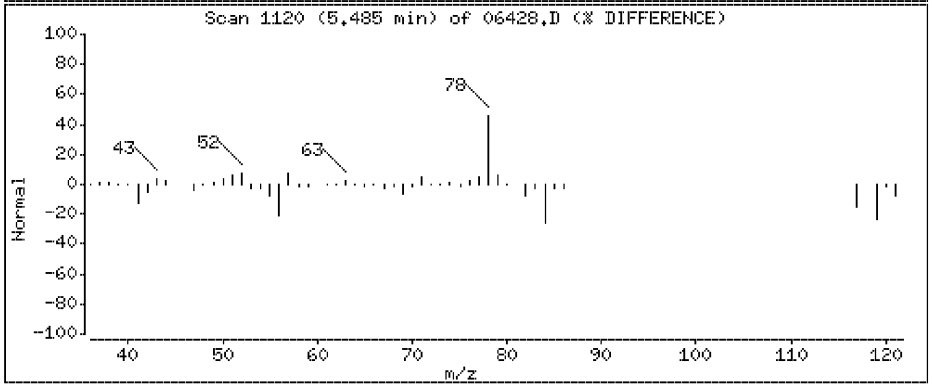












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

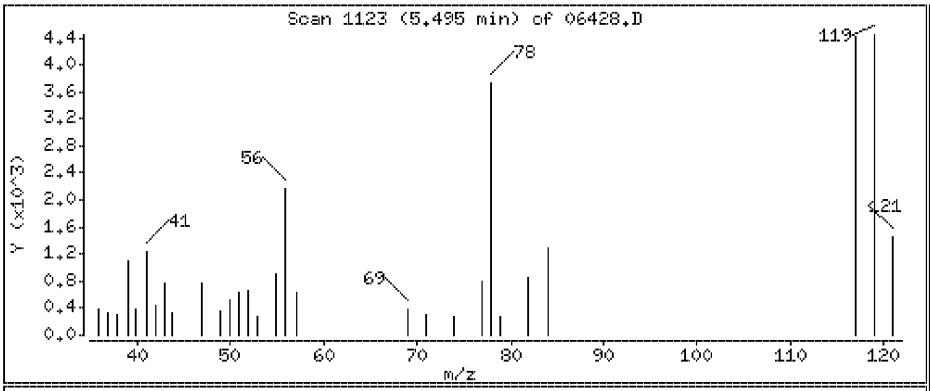
Operator: NCK

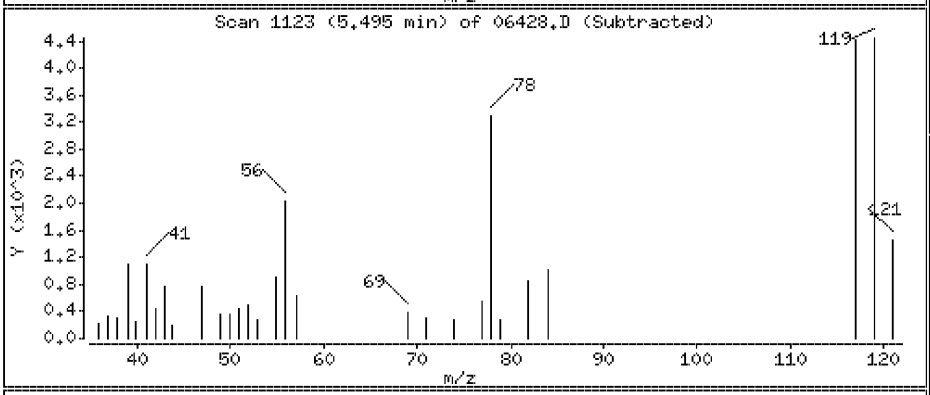
Column phase: J&W DB-5

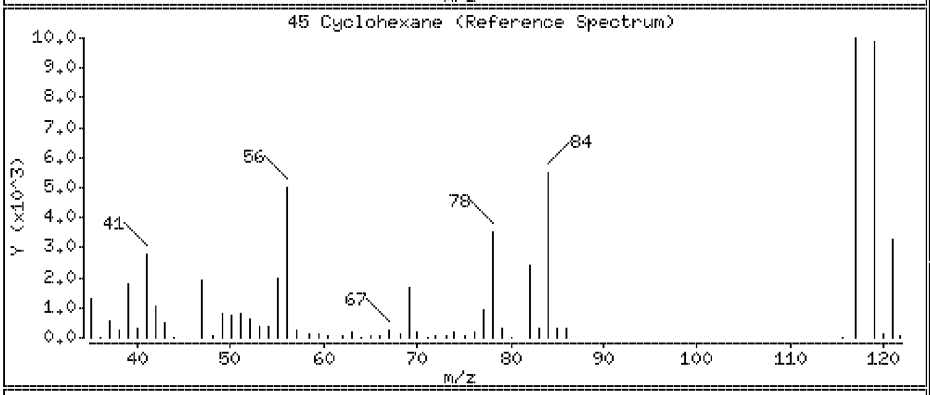
Column diameter: 0.32

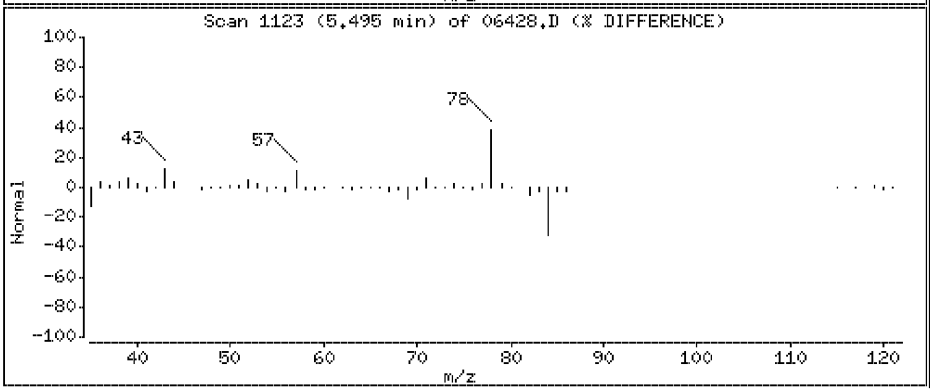
45 Cyclohexane

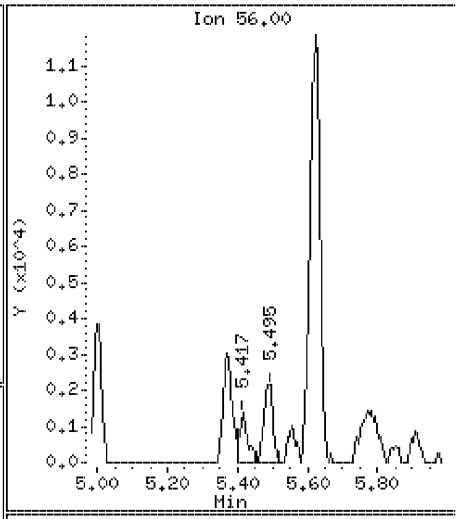
Concentration: 0.330 ppbv

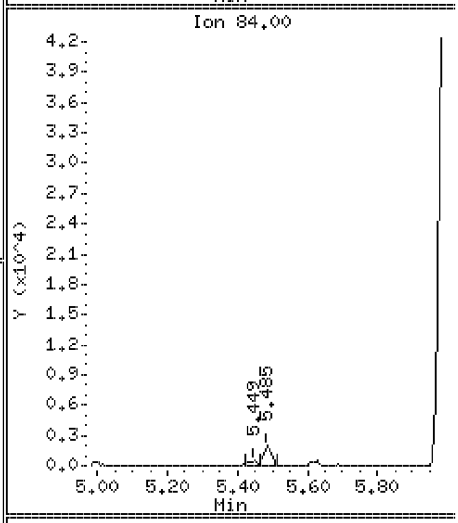


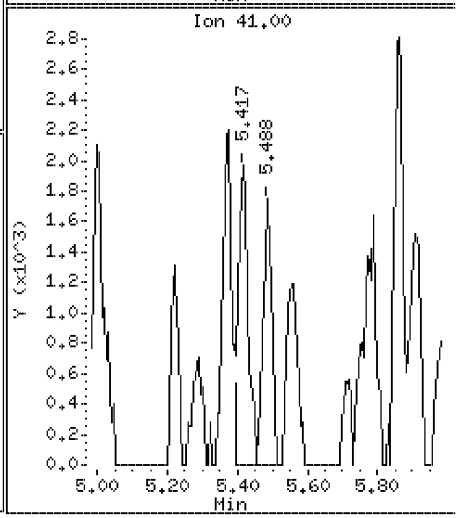












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

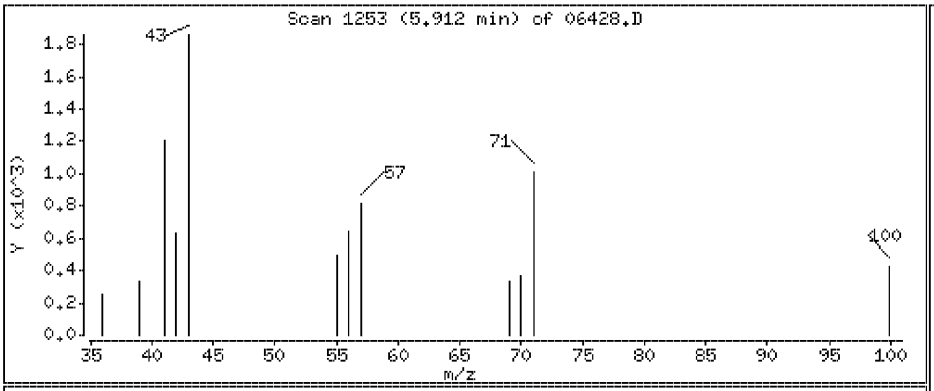
Operator: NCK

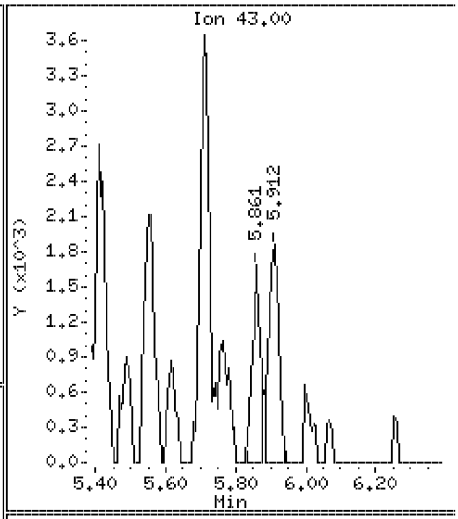
Column phase: J&W DB-5

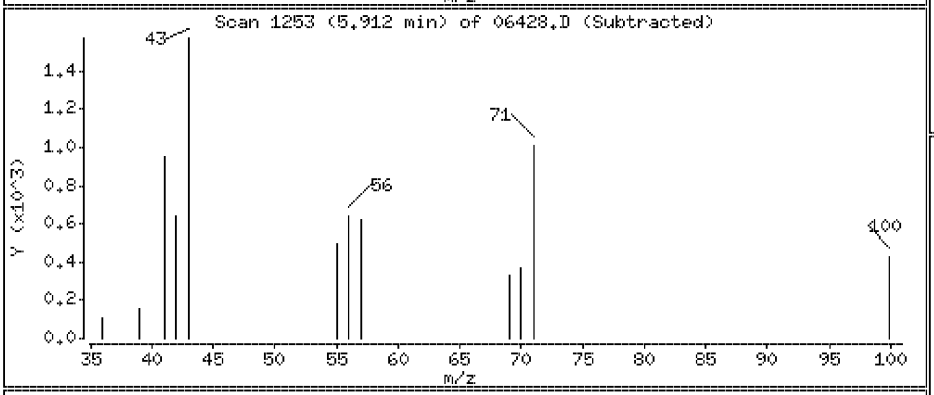
Column diameter: 0.32

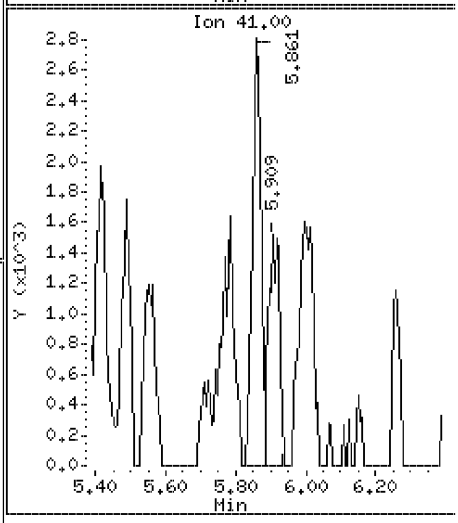
49 Heptane

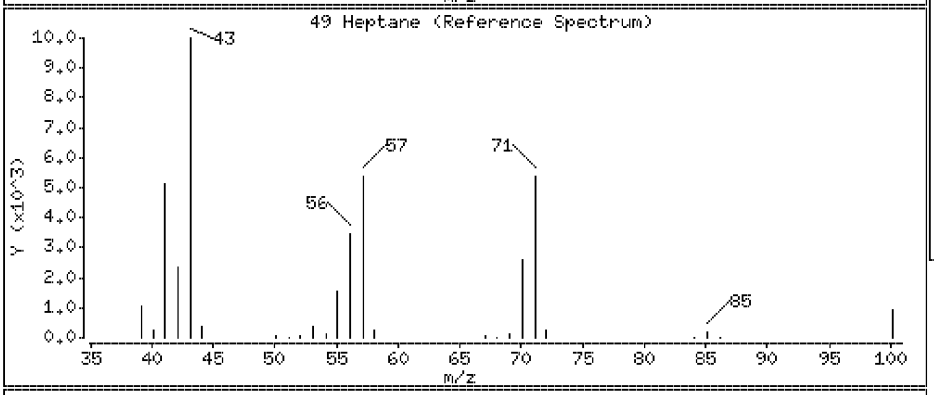
Concentration: 0.289 ppbv

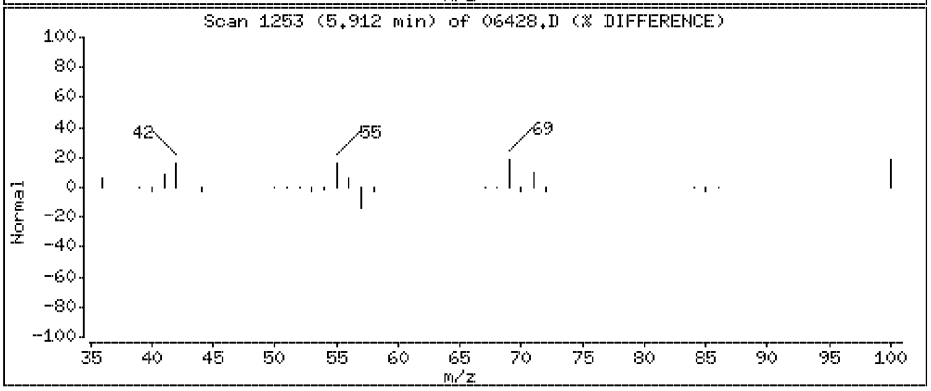












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

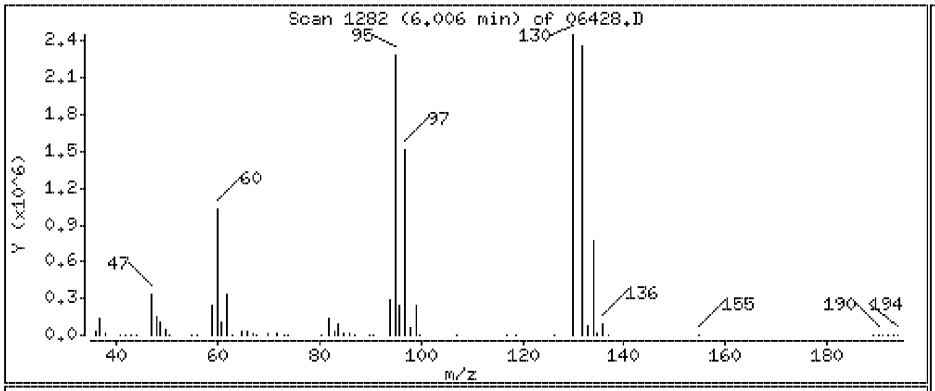
Operator: NCK

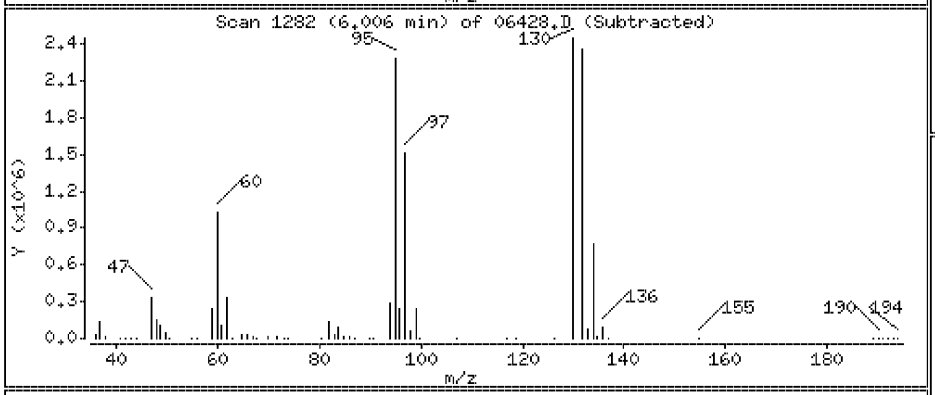
Column phase: J&W DB-5

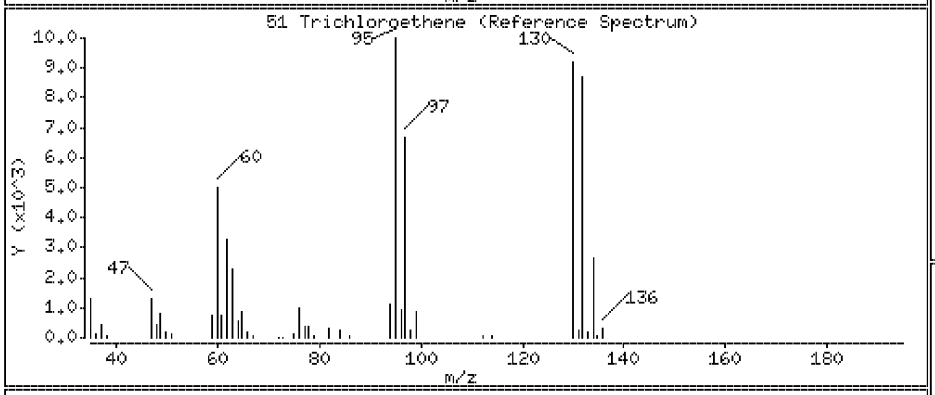
Column diameter: 0.32

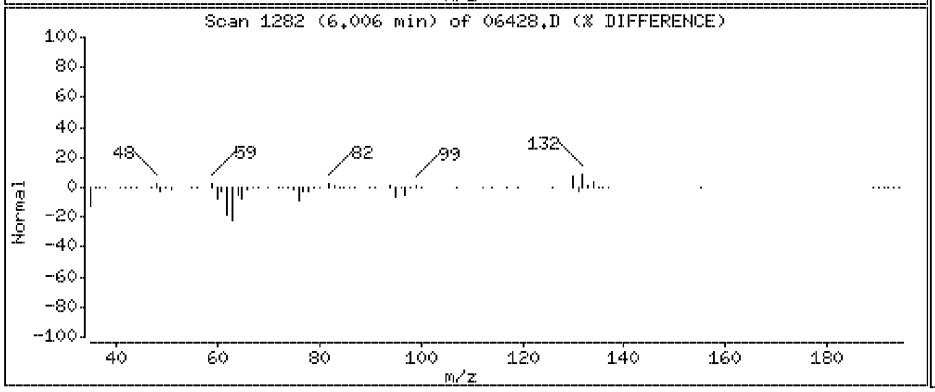
51 Trichloroethene

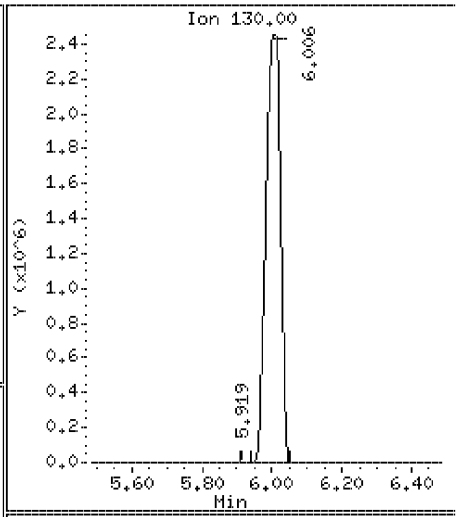
Concentration: 591 ppbv

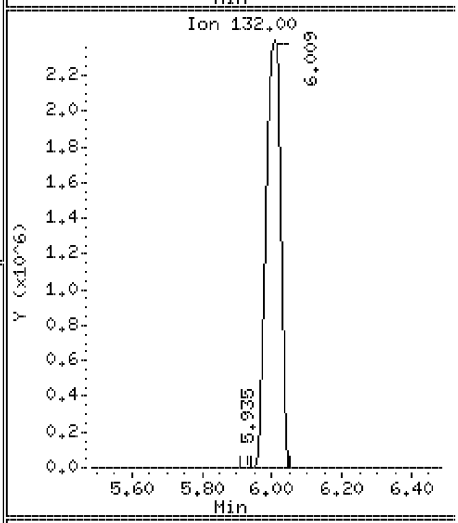


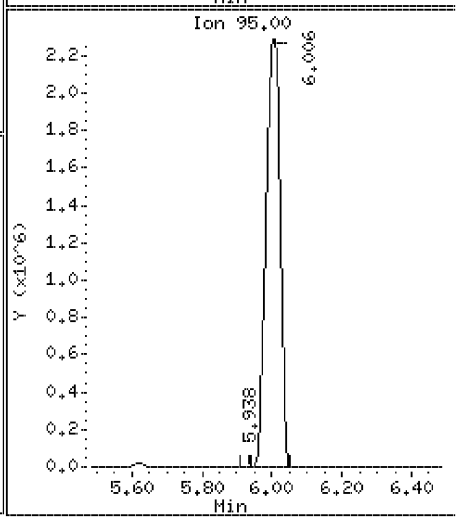












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

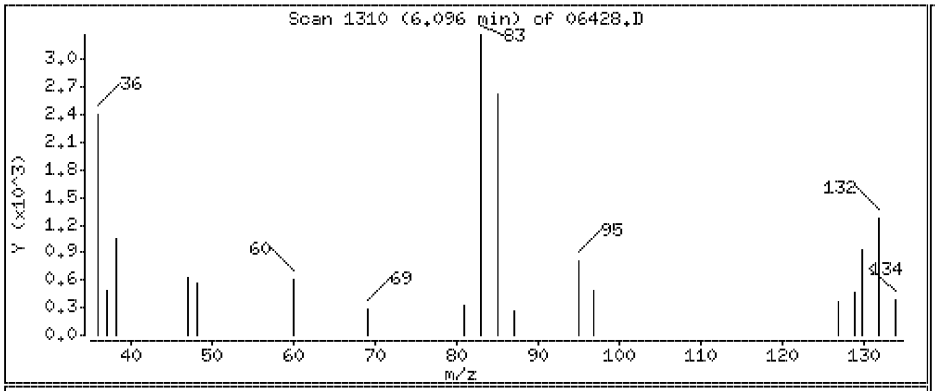
Operator: NCK

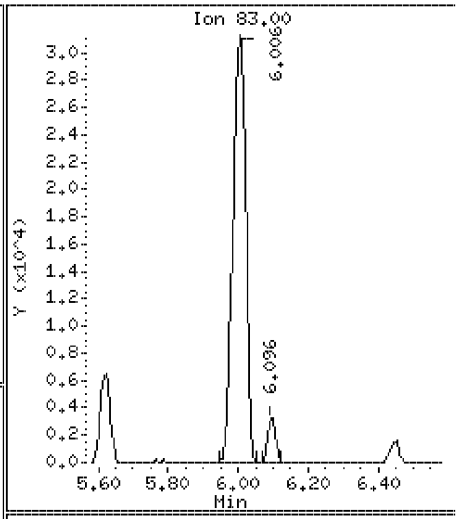
Column phase: J&W DB-5

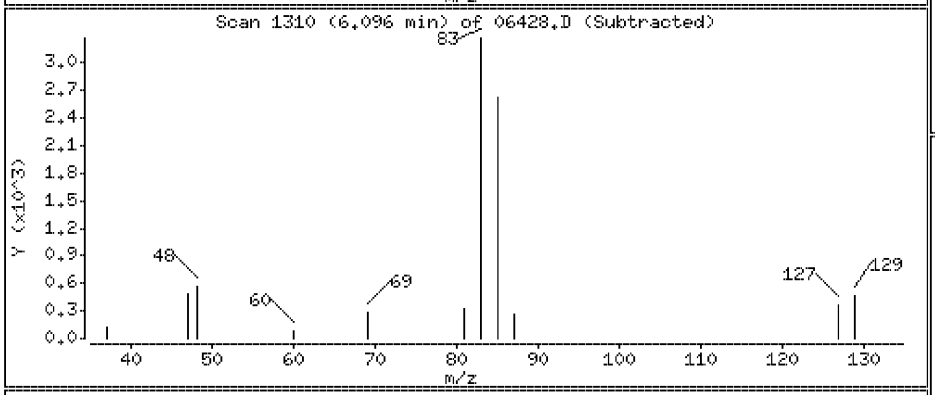
Column diameter: 0.32

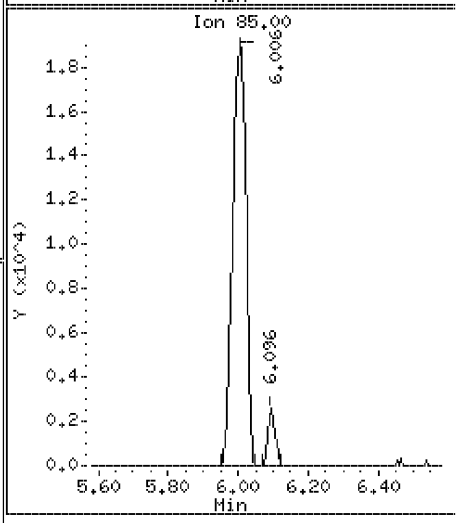
54 Bromodichloromethane

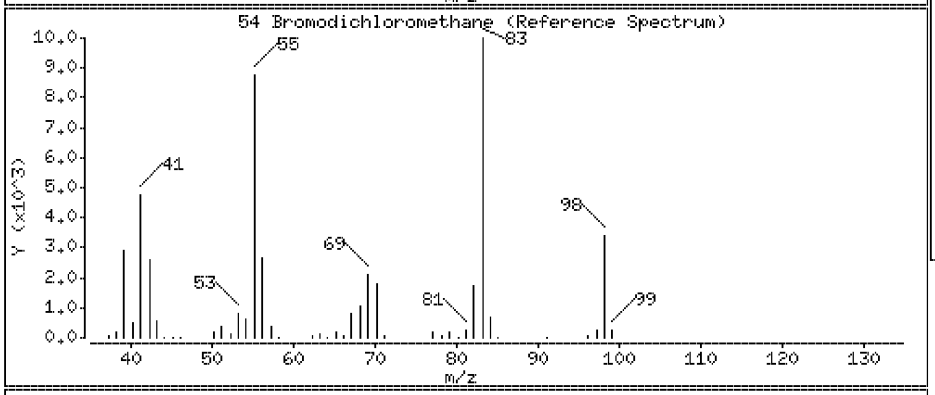
Concentration: 0.293 ppbv

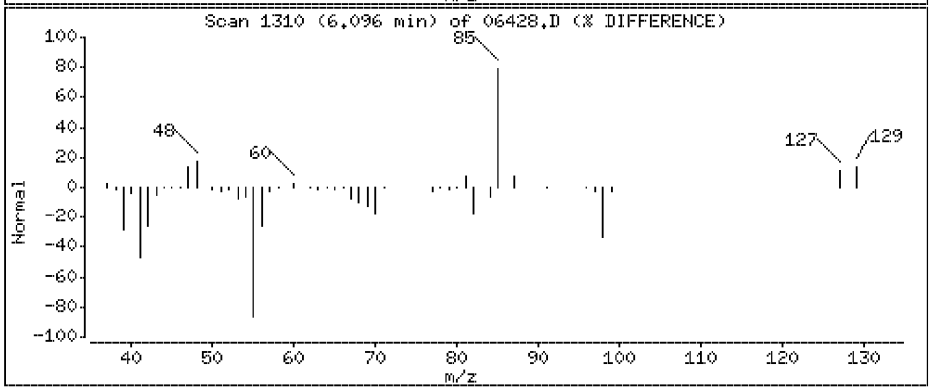












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

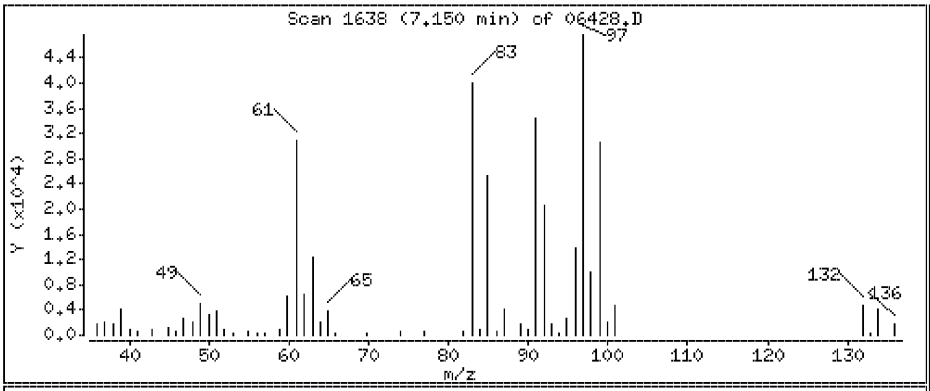
Operator: NCK

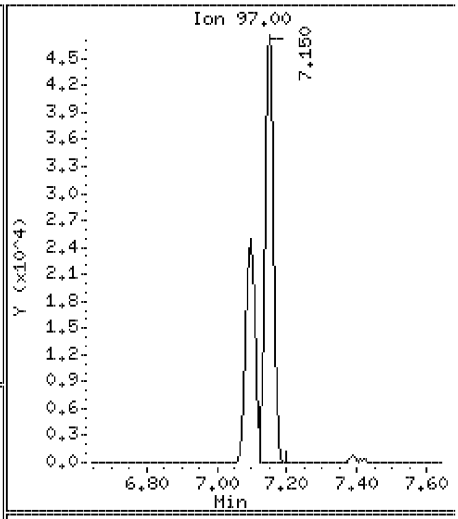
Column phase: J&W DB-5

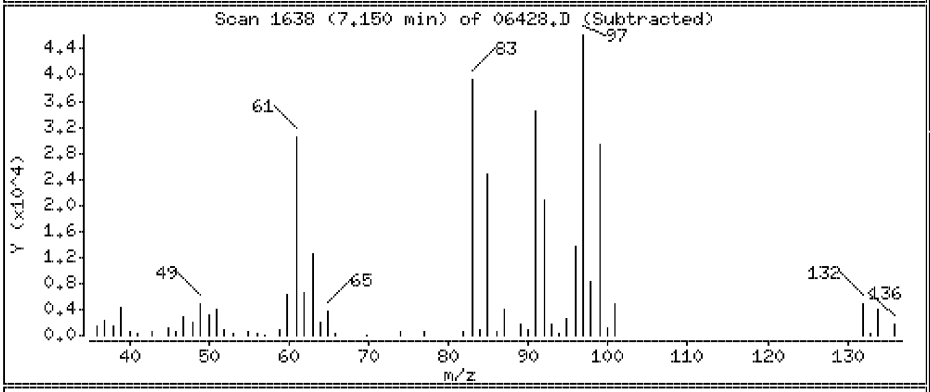
Column diameter: 0.32

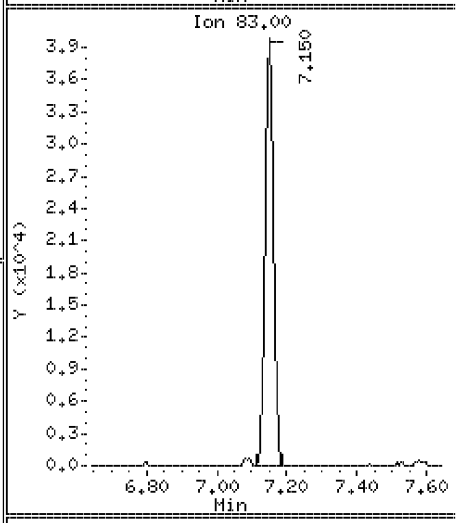
60 1,1,2-Trichloroethane

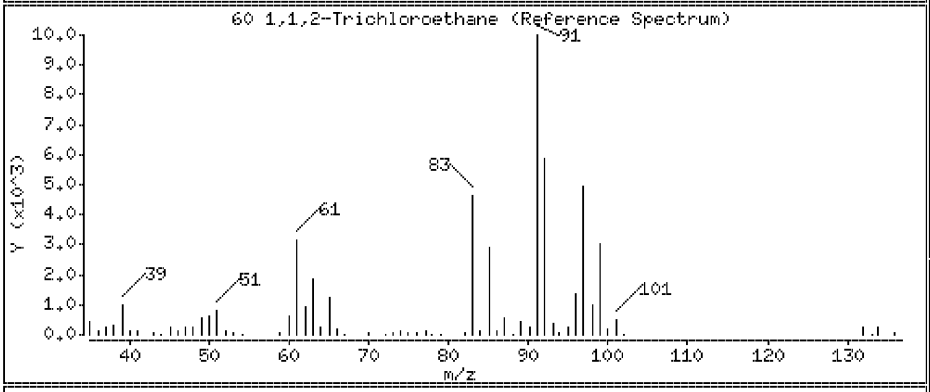
Concentration: 8.08 ppbv

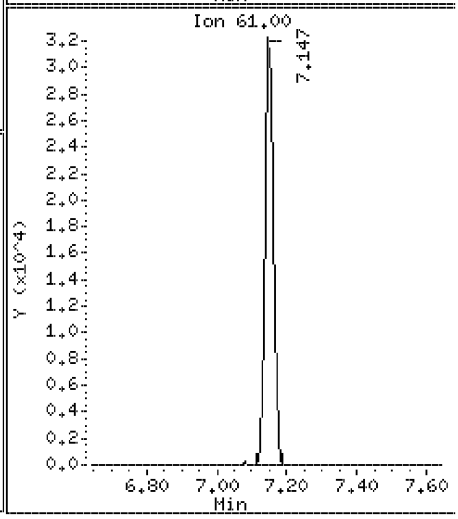


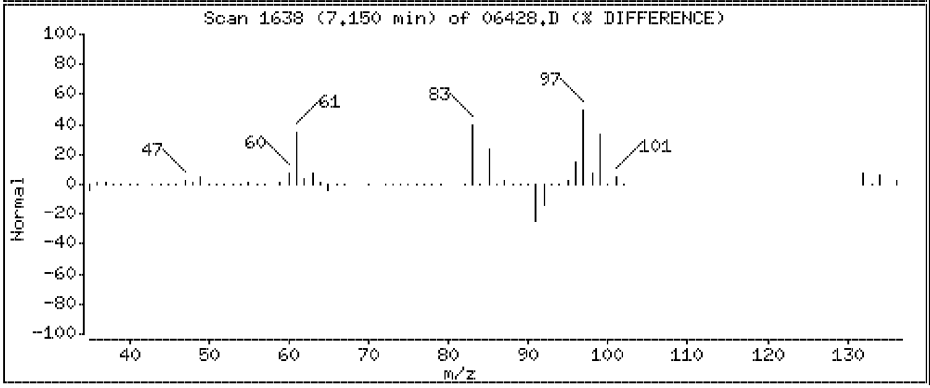












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

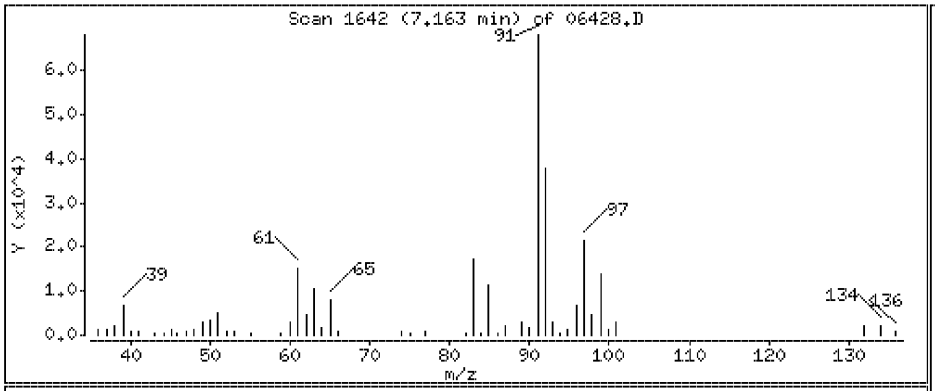
Operator: NCK

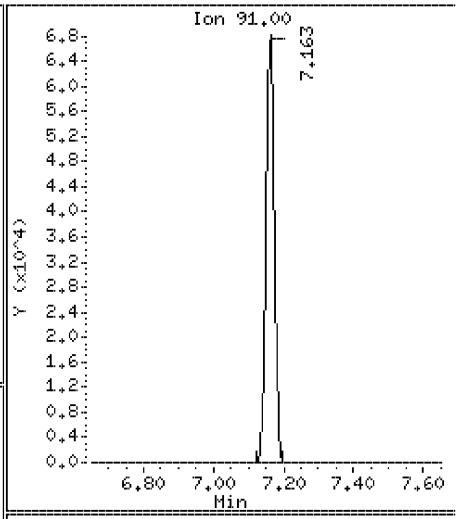
Column phase: J&W DB-5

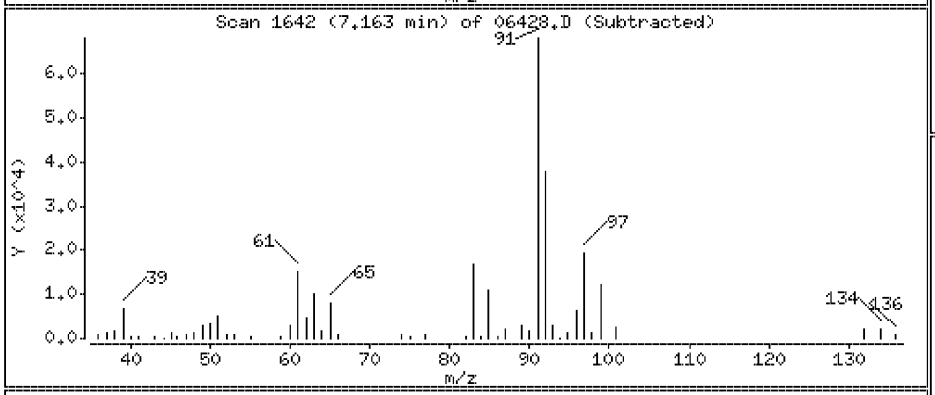
Column diameter: 0.32

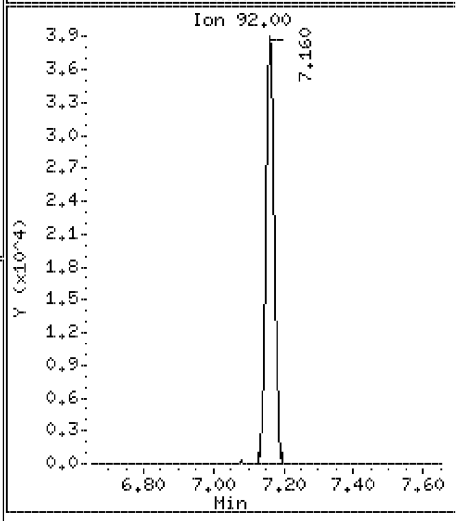
61 Toluene

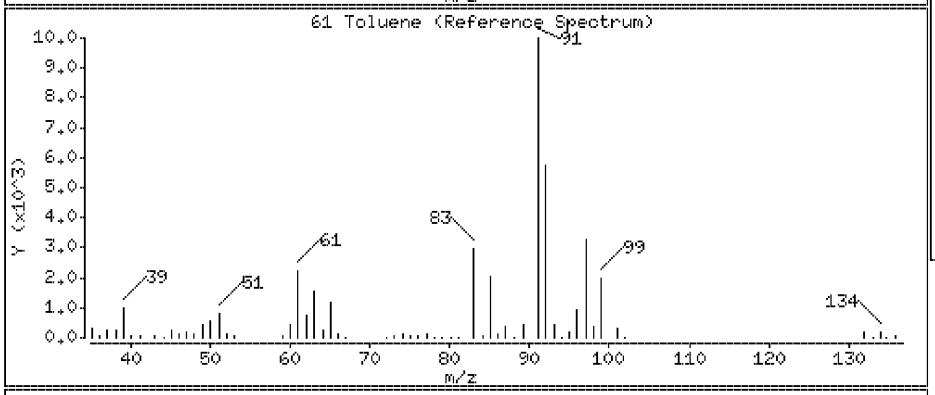
Concentration: 3.77 ppbv

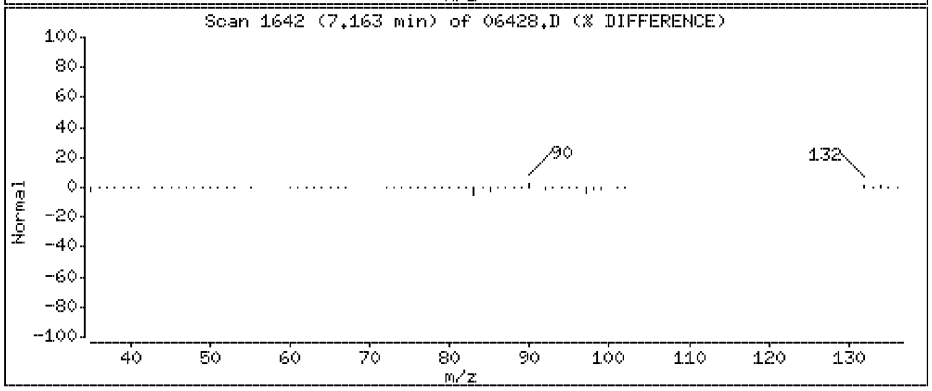












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

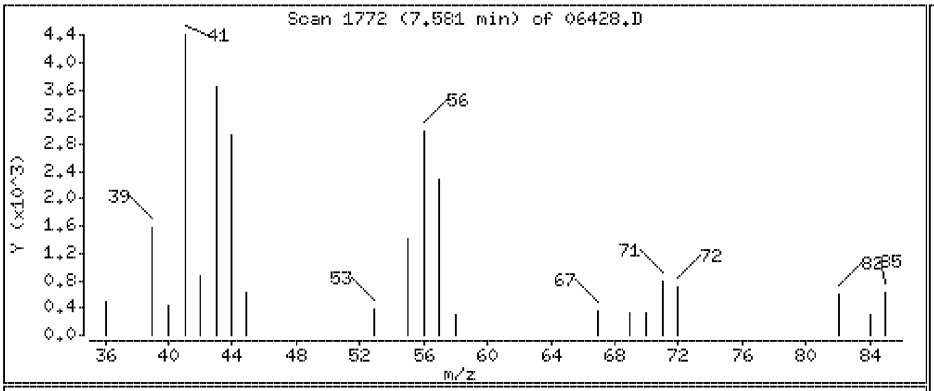
Operator: NCK

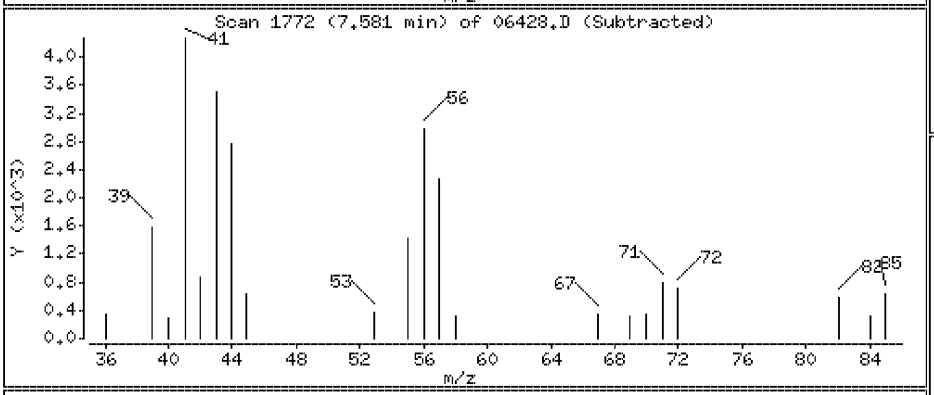
Column phase: J&W DB-5

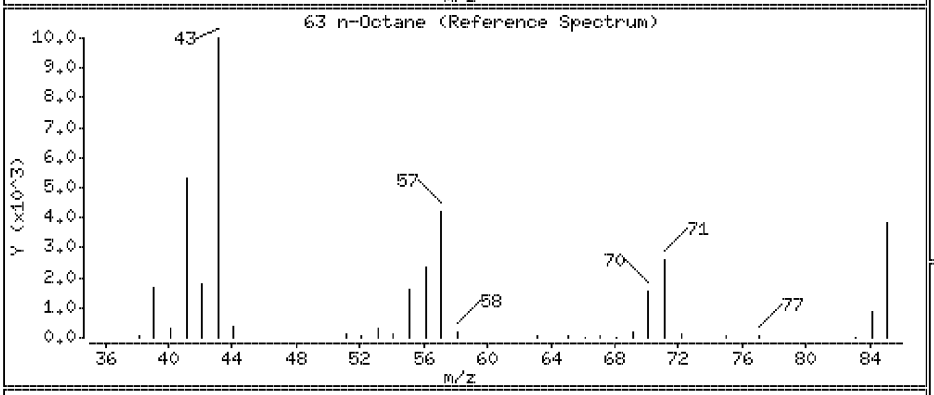
Column diameter: 0.32

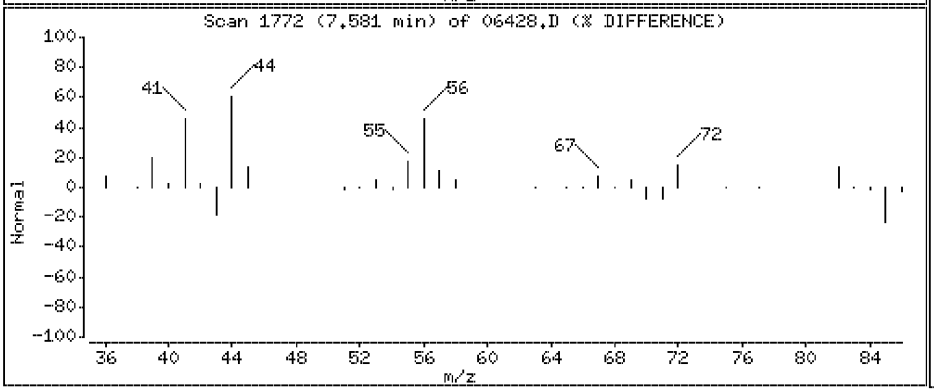
63 n-Octane

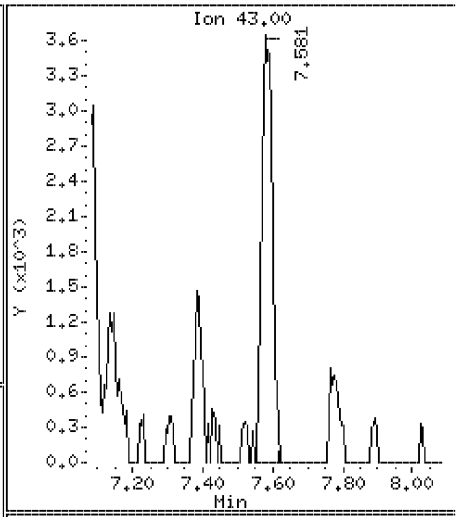
Concentration: 0.488 ppbv

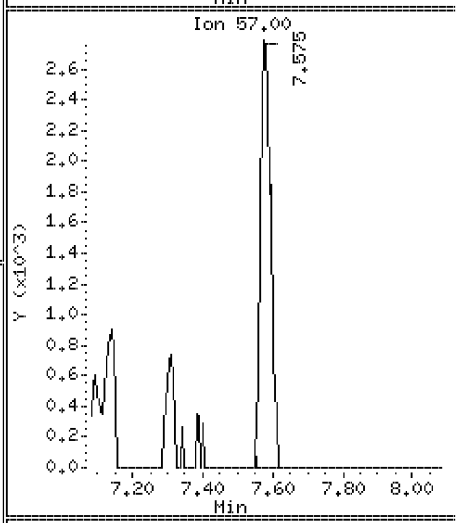


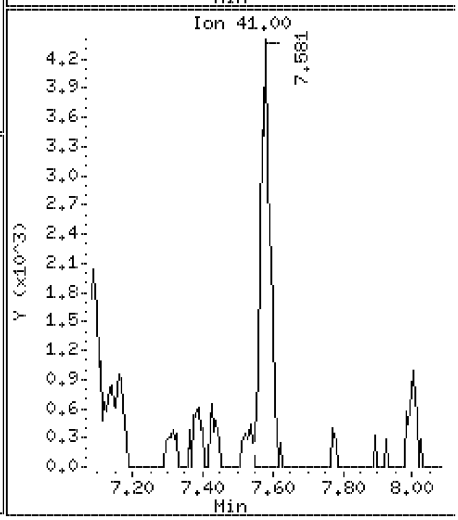












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

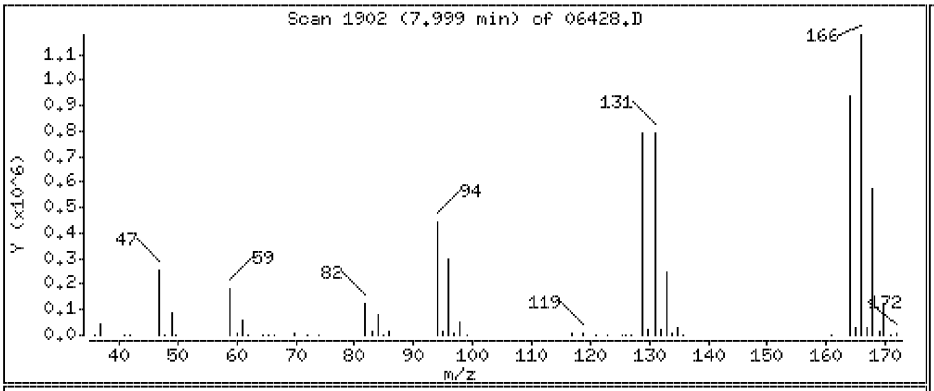
Operator: NCK

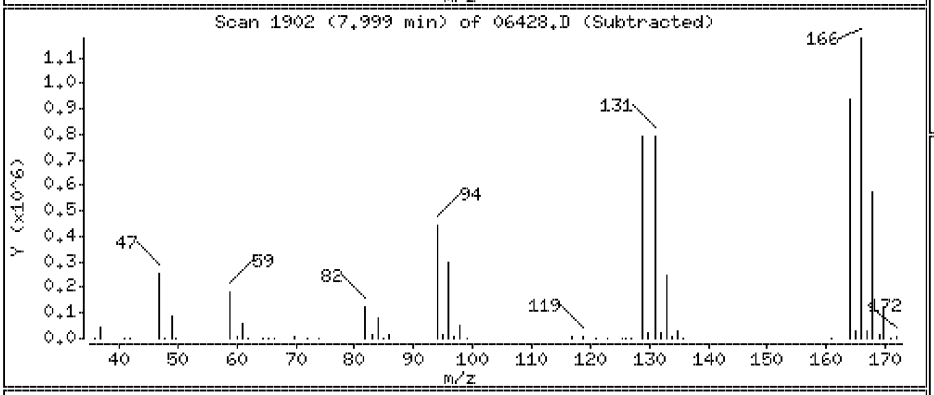
Column phase: J&W DB-5

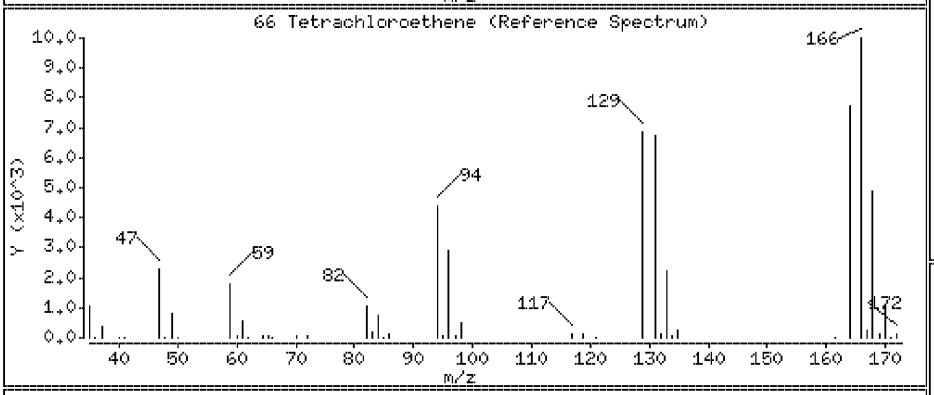
Column diameter: 0.32

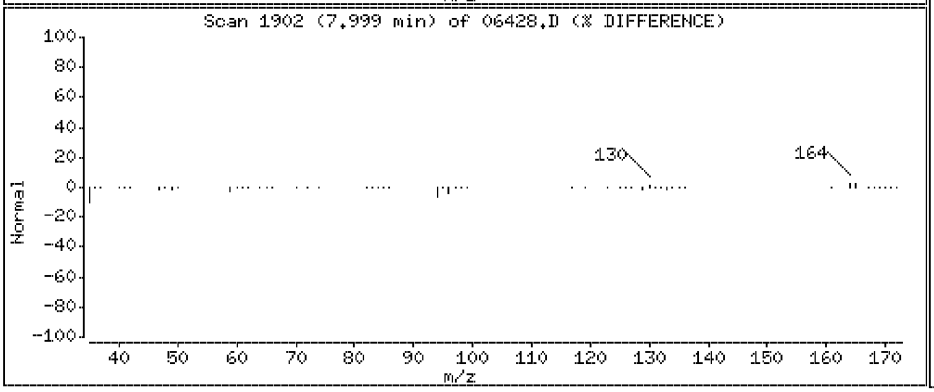
66 Tetrachloroethene

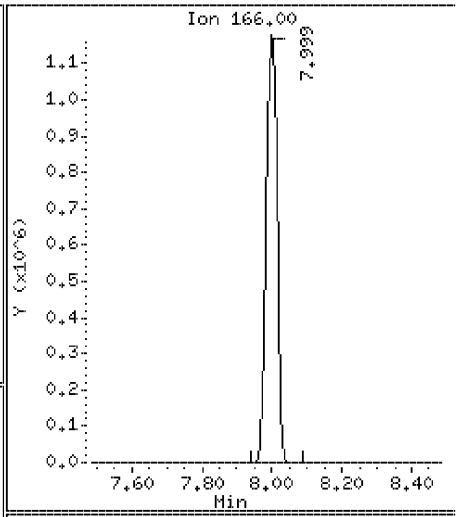
Concentration: 158 ppbv

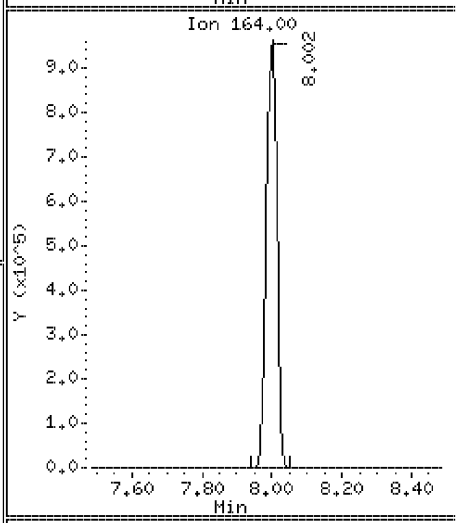


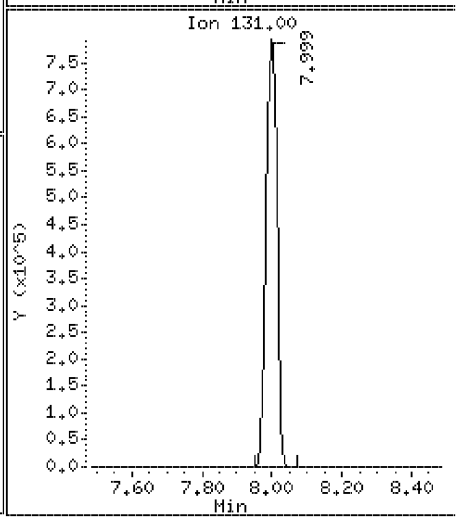












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

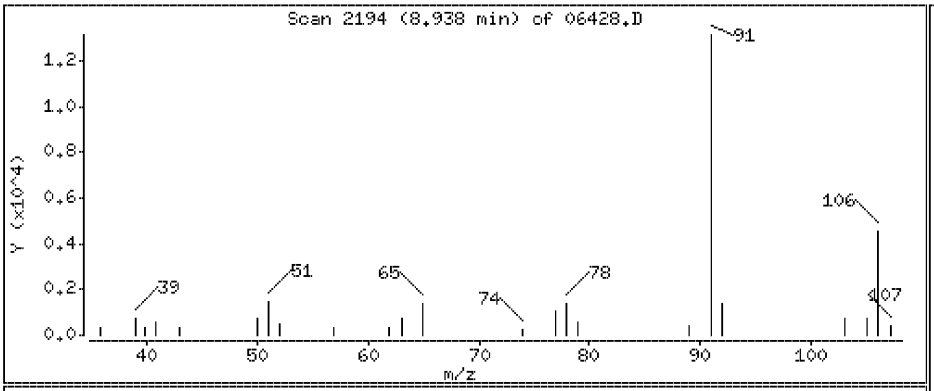
Operator: NCK

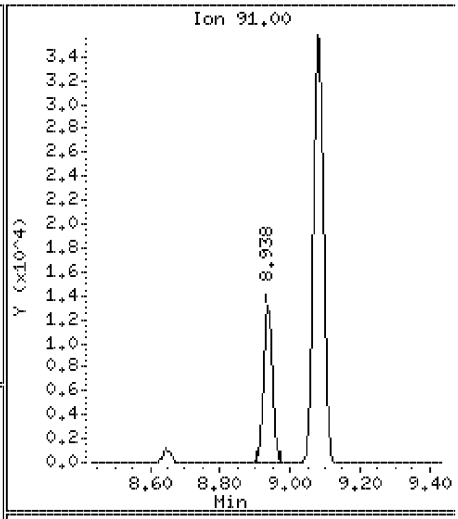
Column phase: J&W DB-5

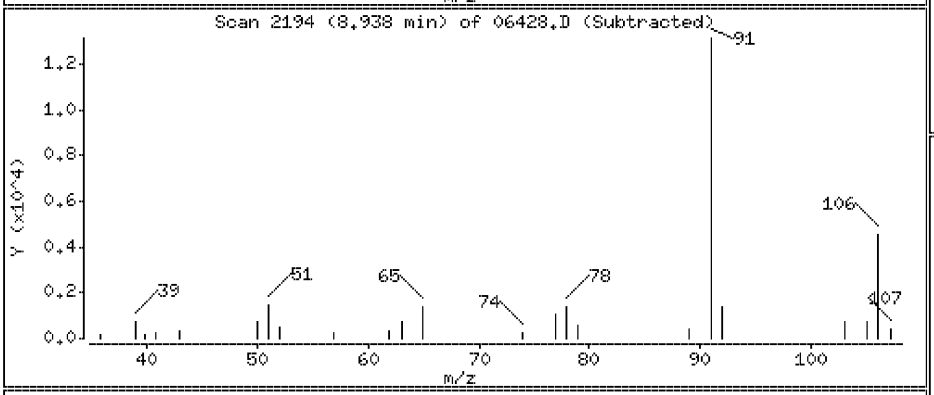
Column diameter: 0.32

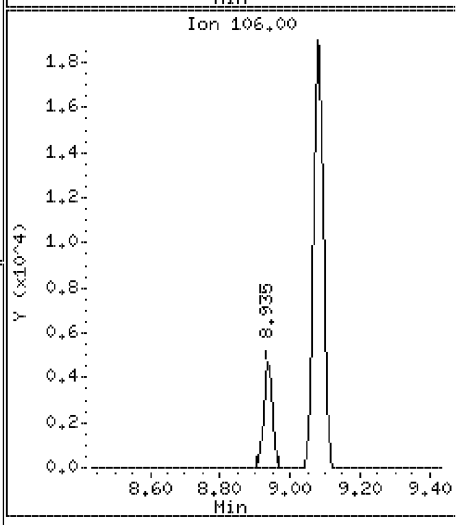
69 Ethyl Benzene

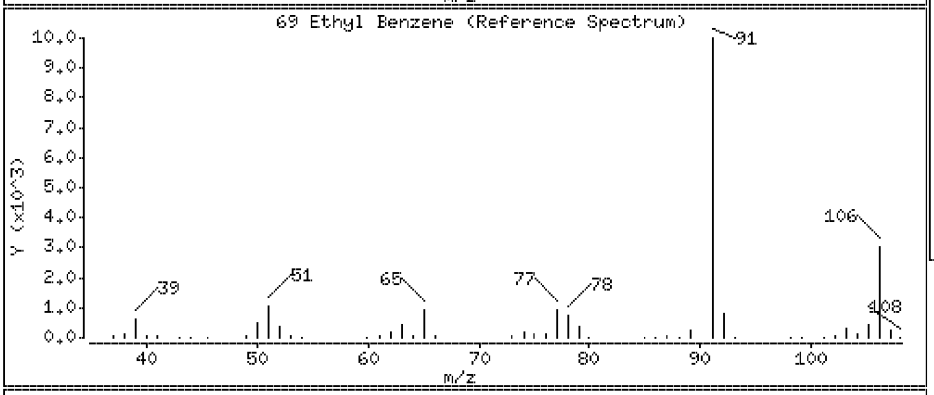
Concentration: 0.657 ppbv

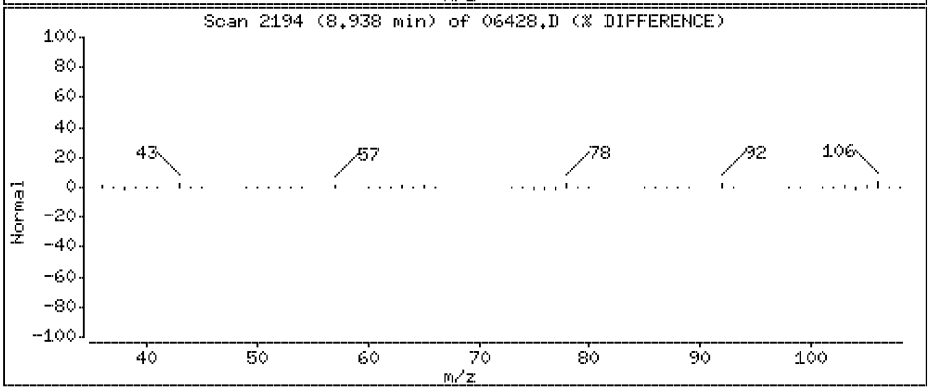












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

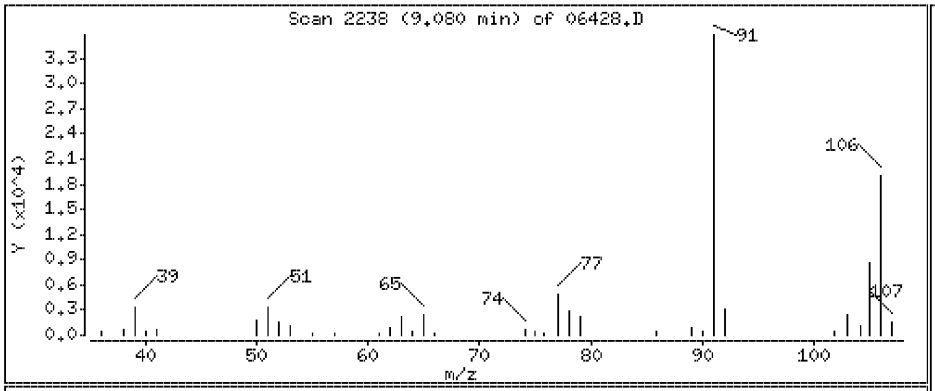
Operator: NCK

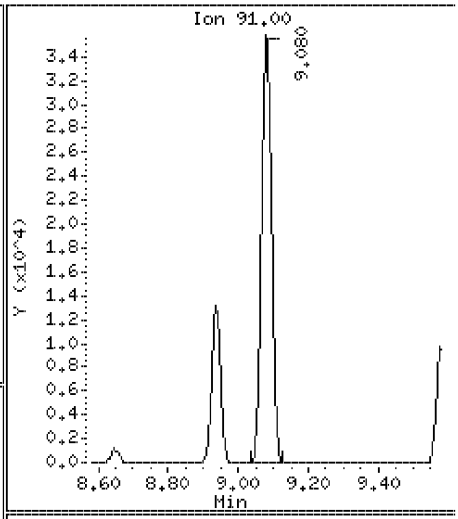
Column phase: J&W DB-5

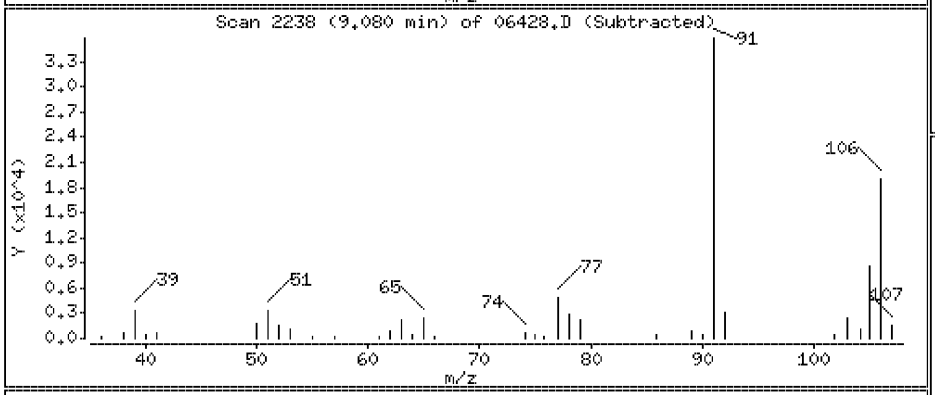
Column diameter: 0.32

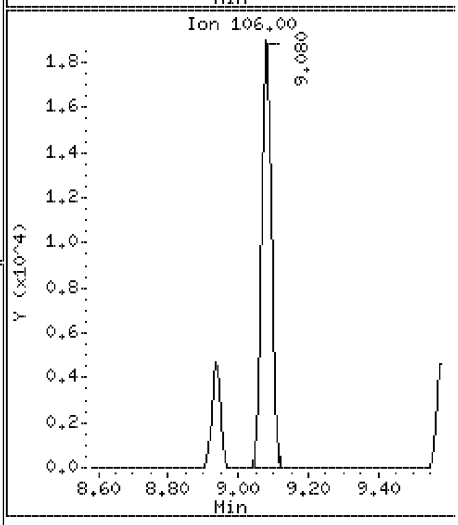
70 m&p-Xylene

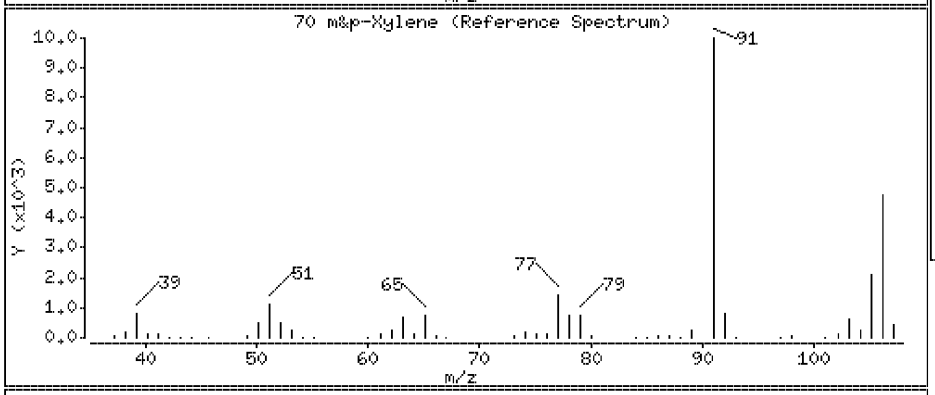
Concentration: 2.64 ppbv

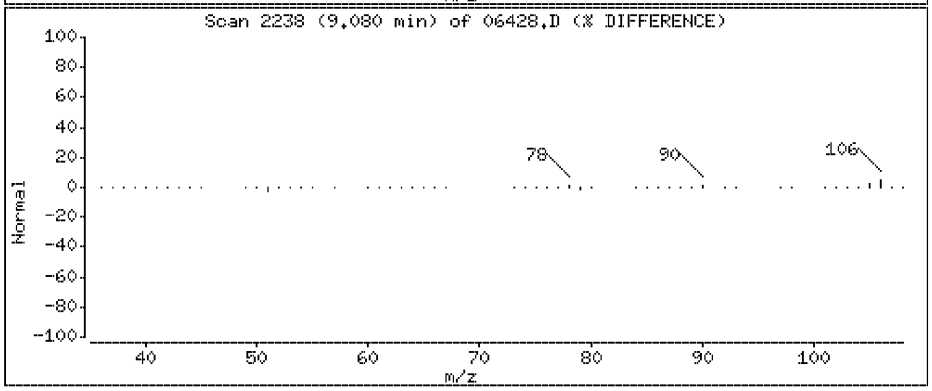












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

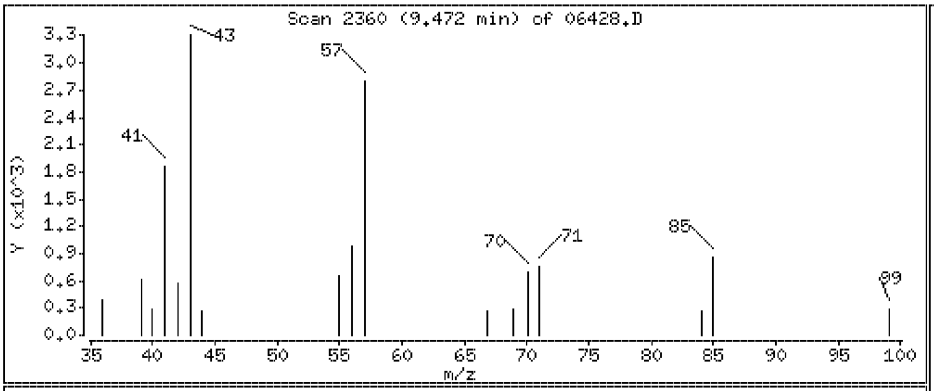
Operator: NCK

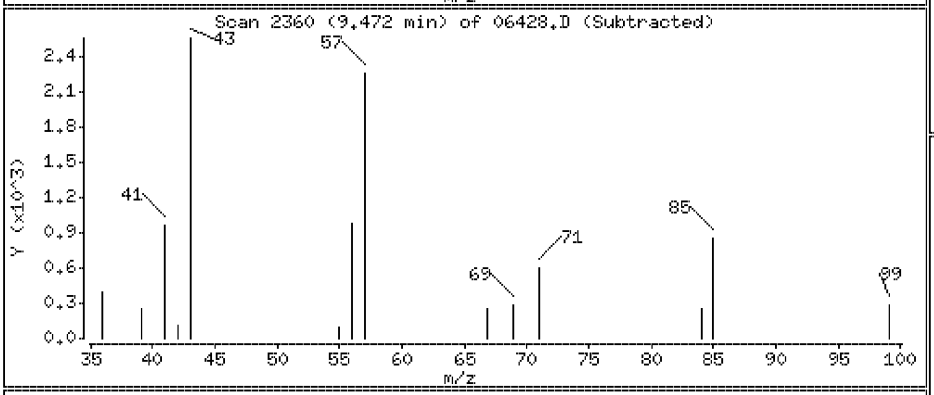
Column phase: J&W DB-5

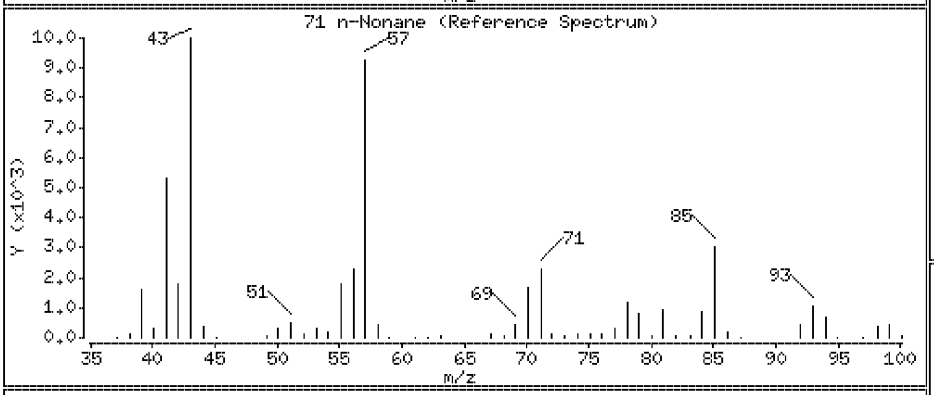
Column diameter: 0.32

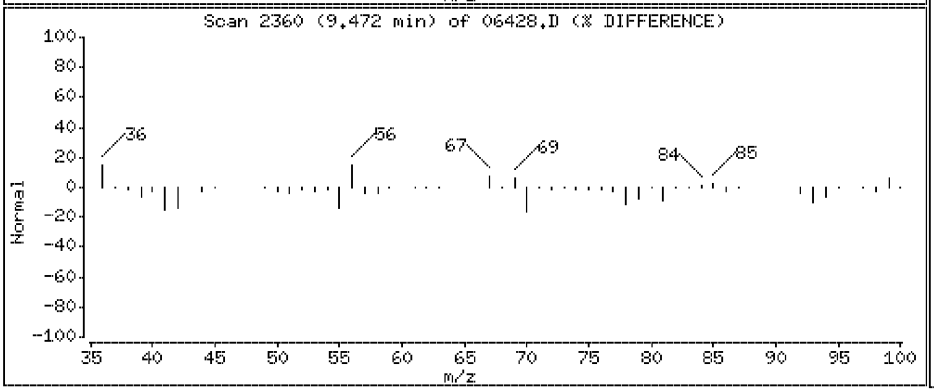
71 n-Nonane

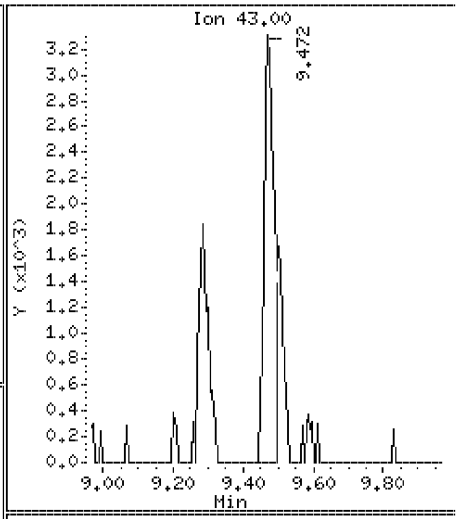
Concentration: 0.434 ppbv

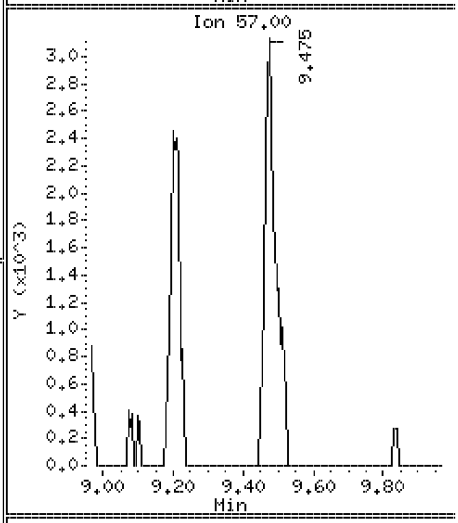


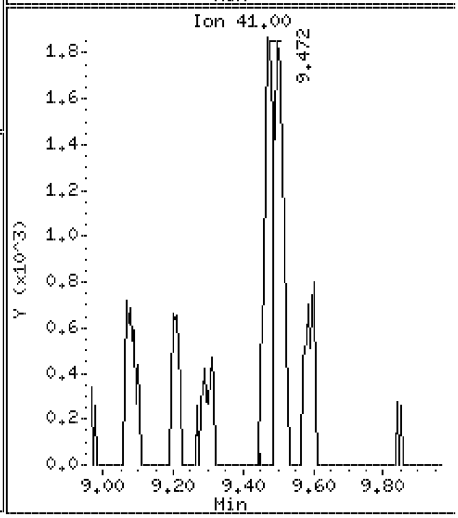












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

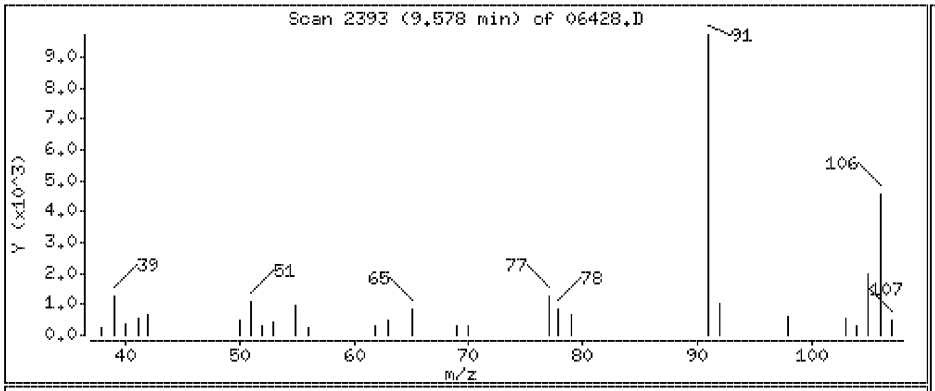
Operator: NCK

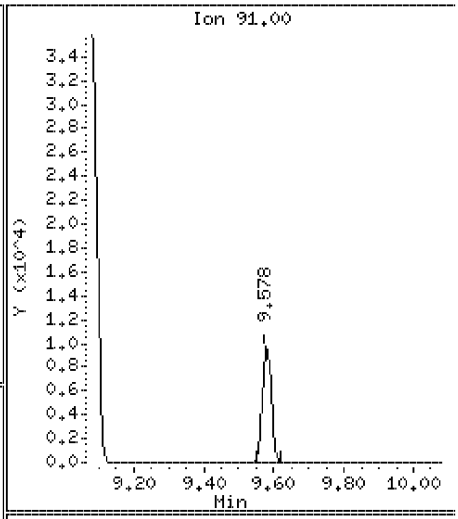
Column phase: J&W DB-5

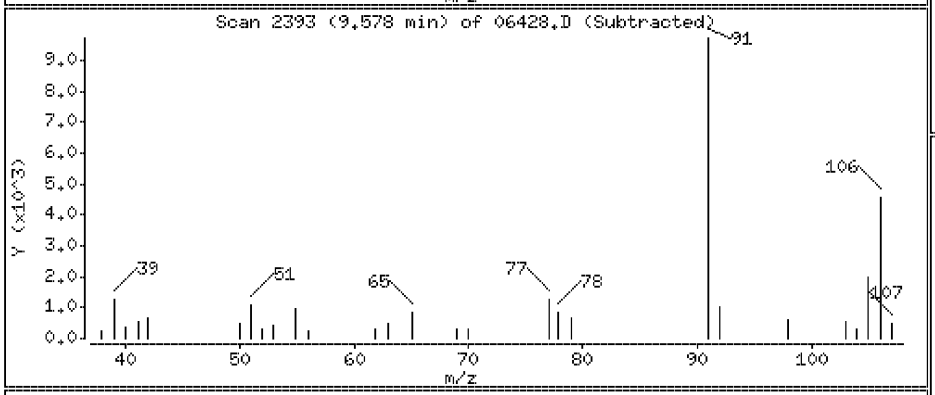
Column diameter: 0.32

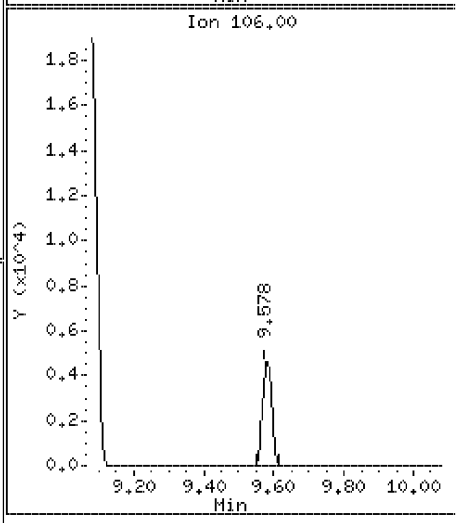
74 o-Xylene

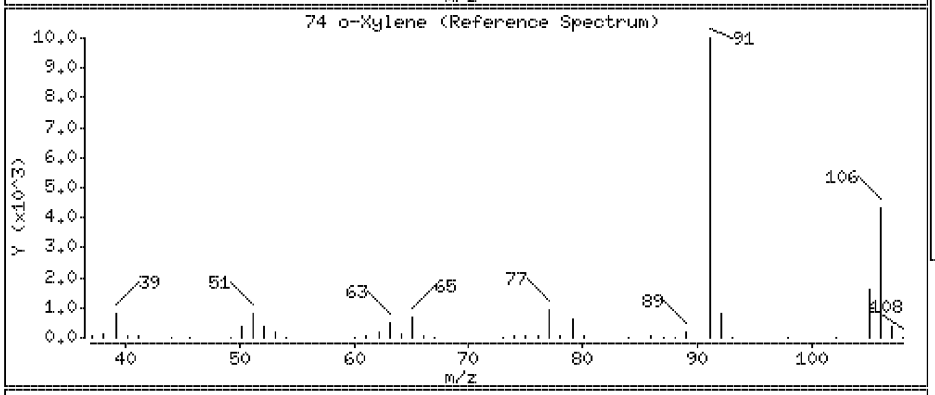
Concentration: 0.630 ppbv

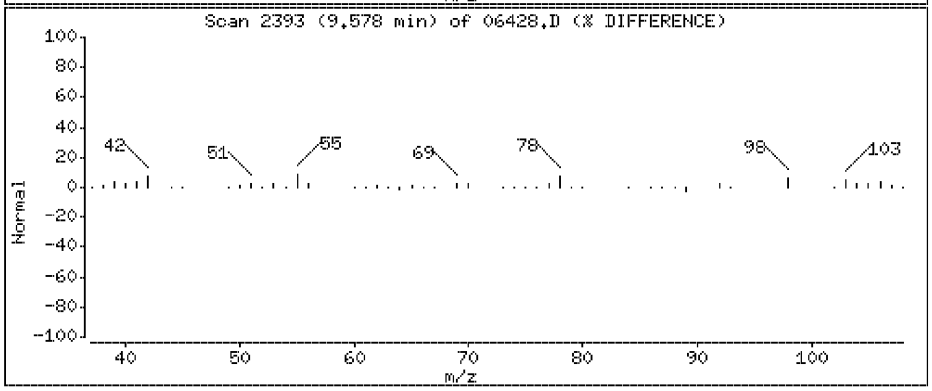












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

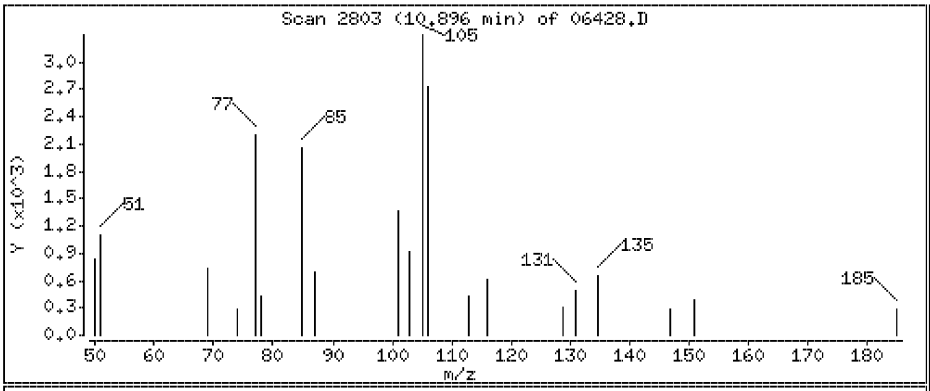
Operator: NCK

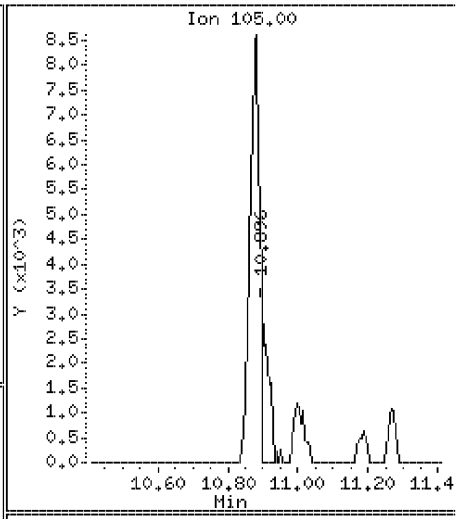
Column phase: J&W DB-5

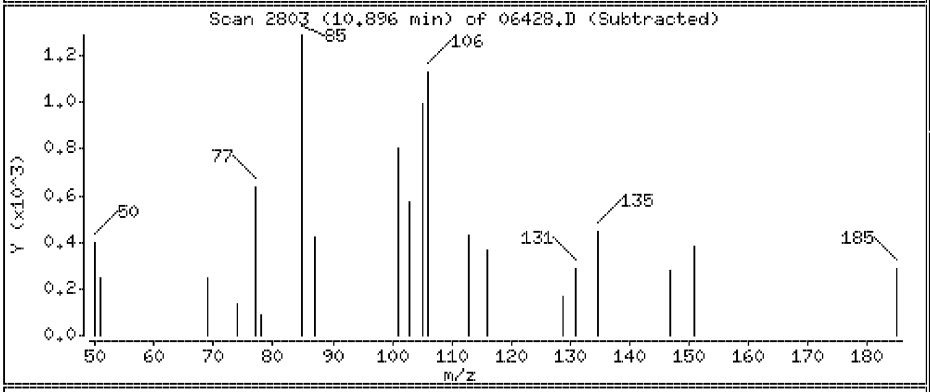
Column diameter: 0.32

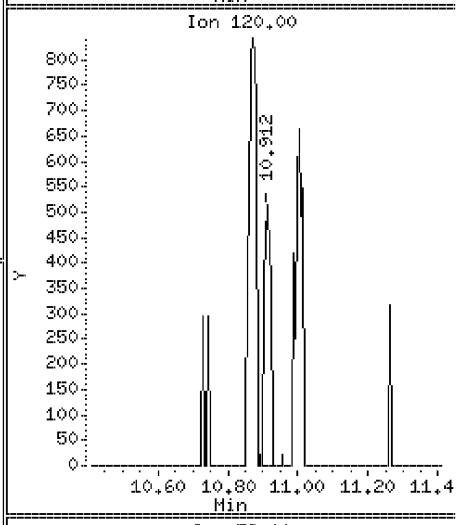
78 4-Ethyltoluene

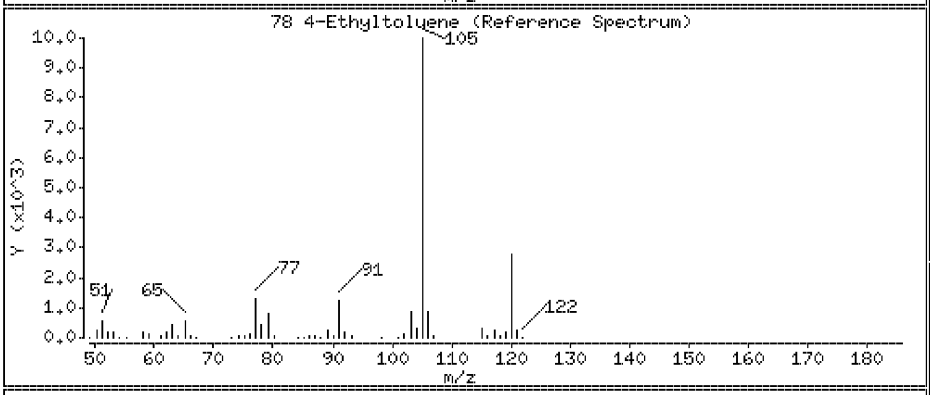
Concentration: 0.290 ppbv

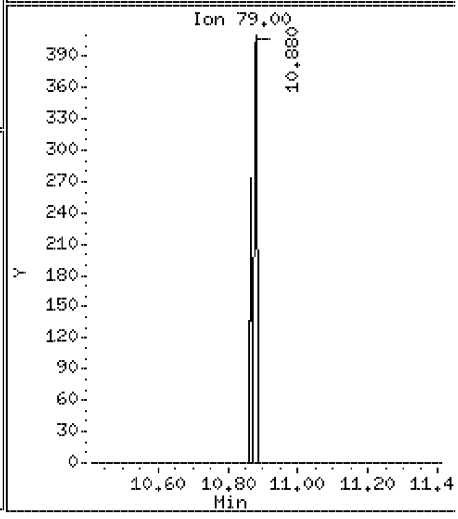


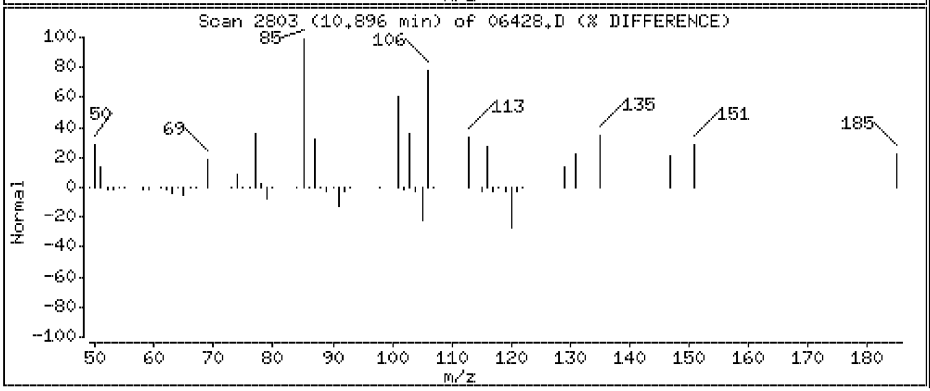












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

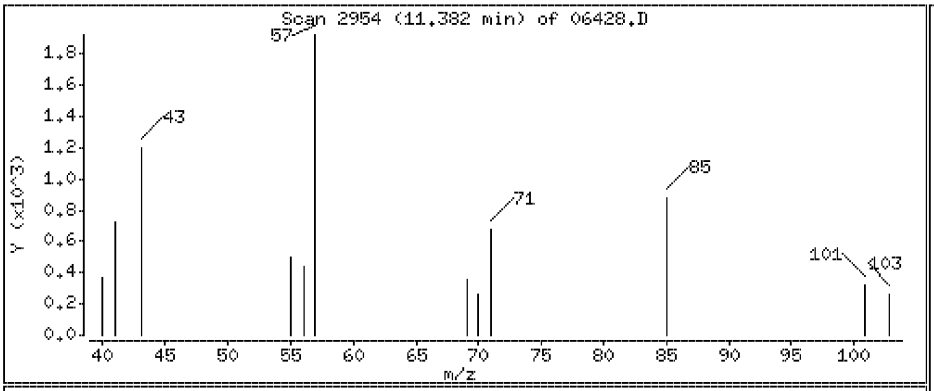
Operator: NCK

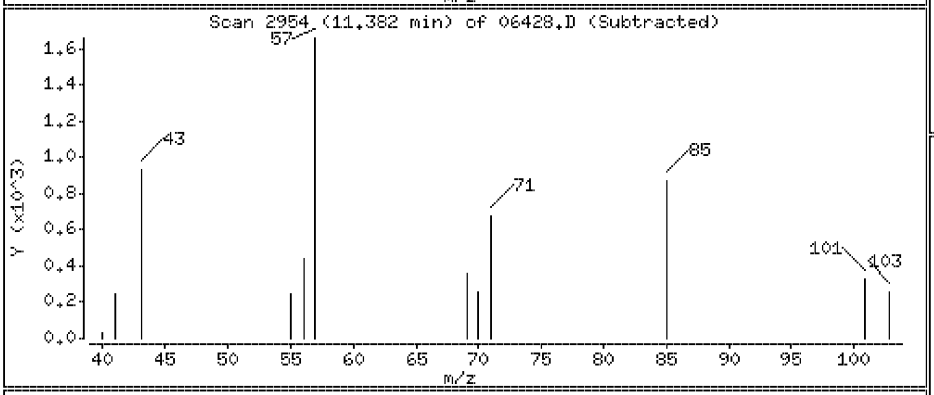
Column phase: J&W DB-5

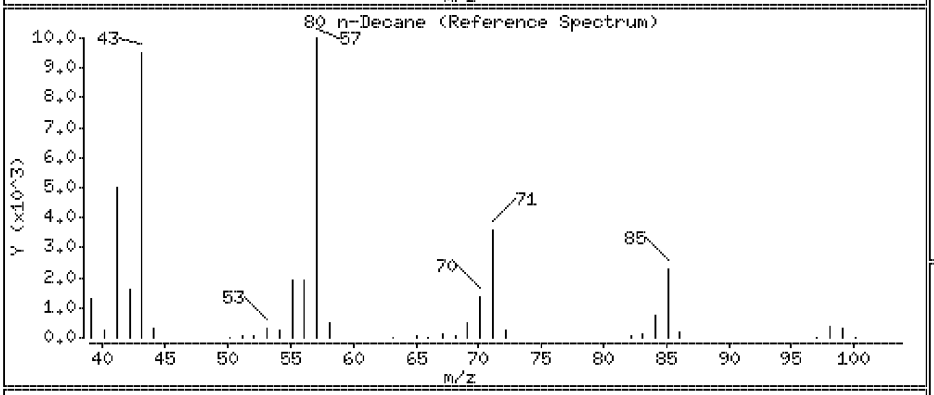
Column diameter: 0.32

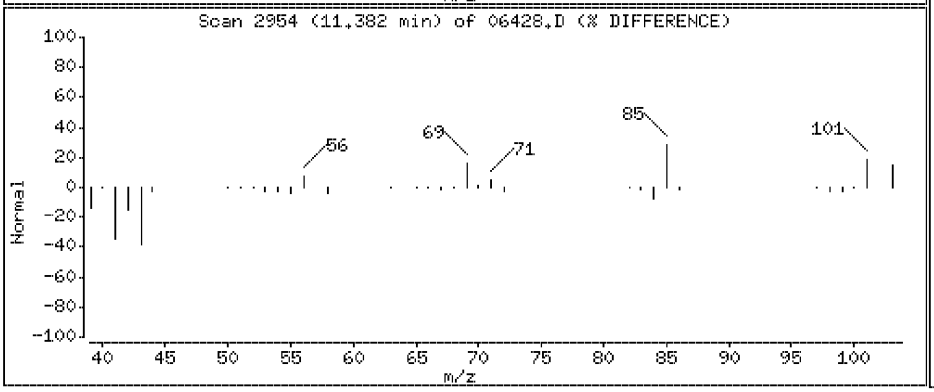
80 n-Decane

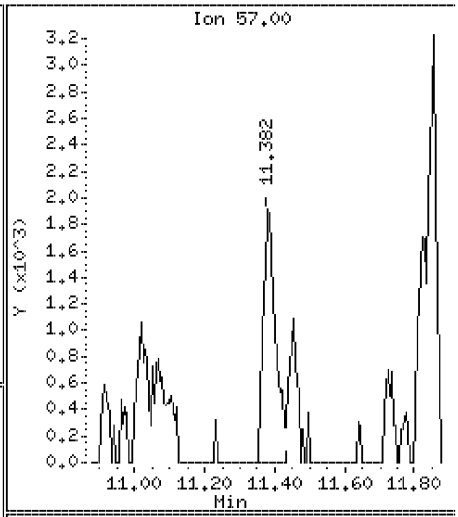
Concentration: 0.671 ppbv

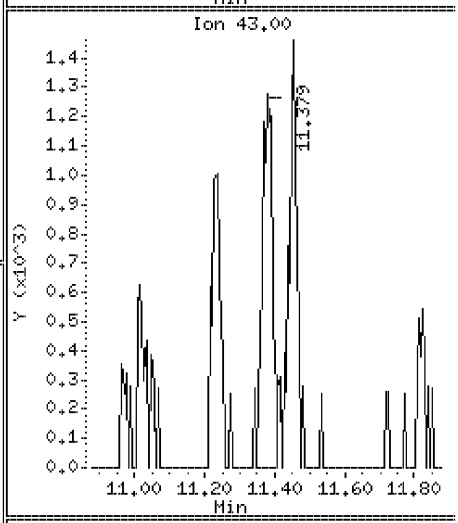


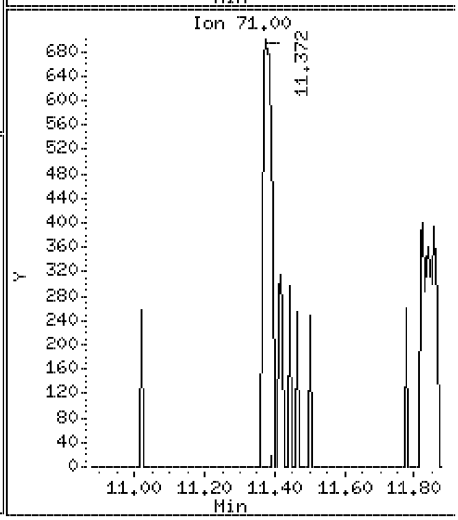












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

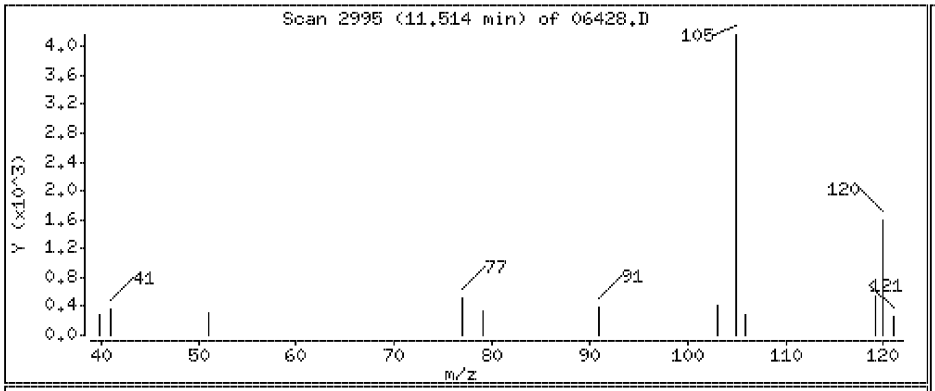
Operator: NCK

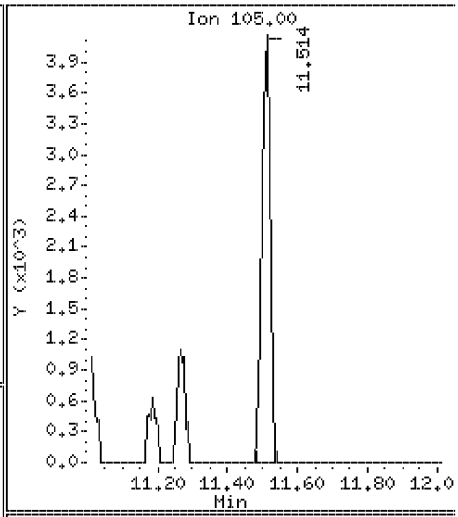
Column phase: J&W DB-5

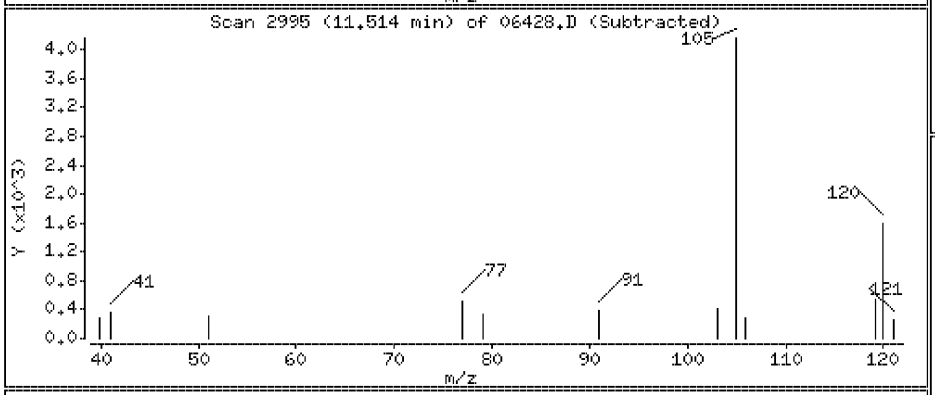
Column diameter: 0.32

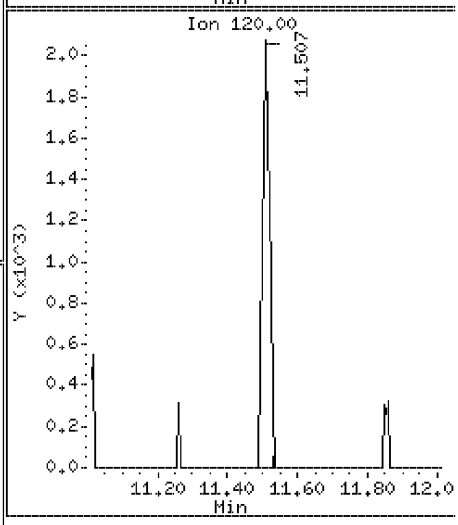
82 1,2,4-Trimethylbenzene

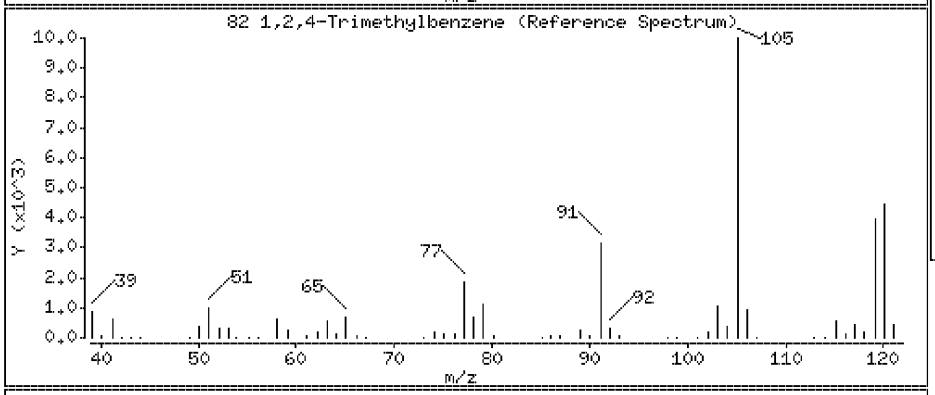
Concentration: 0.241 ppbv

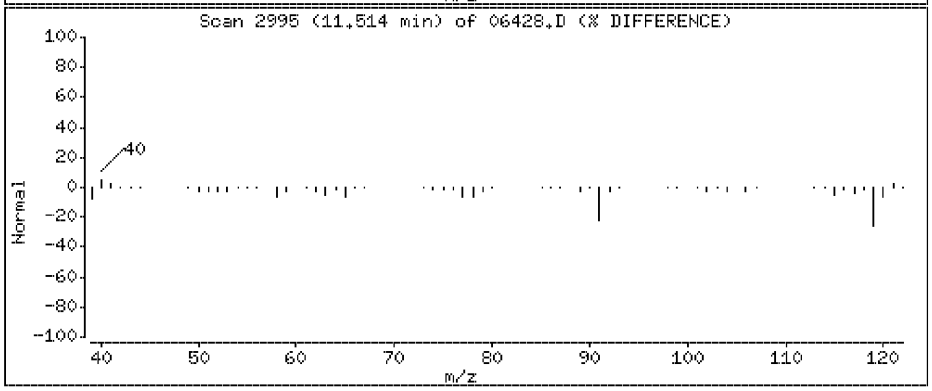












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06428.D

Date : 05-MAR-2017 23:10

Client ID:

Instrument: 10airB.i

Sample Info:

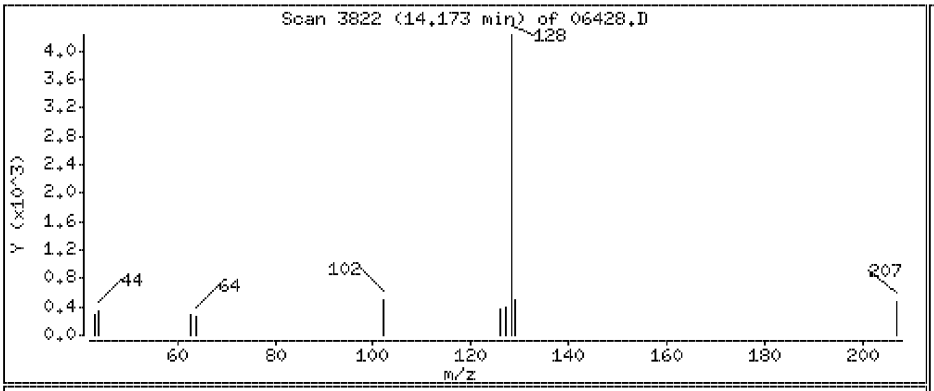
Operator: NCK

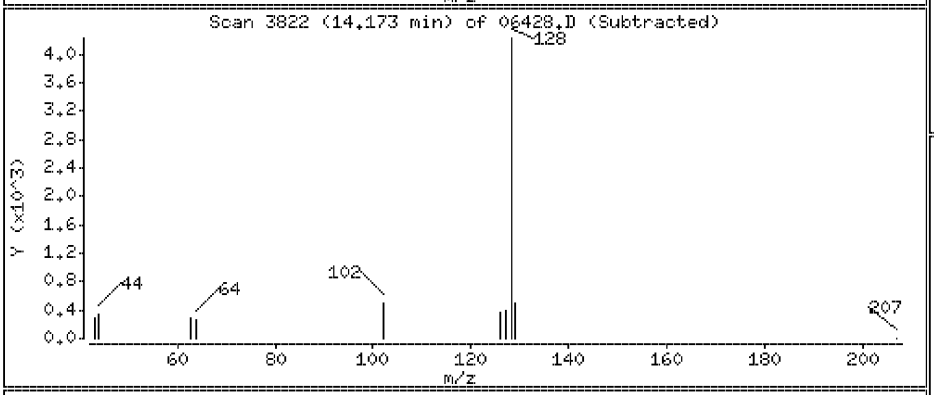
Column phase: J&W DB-5

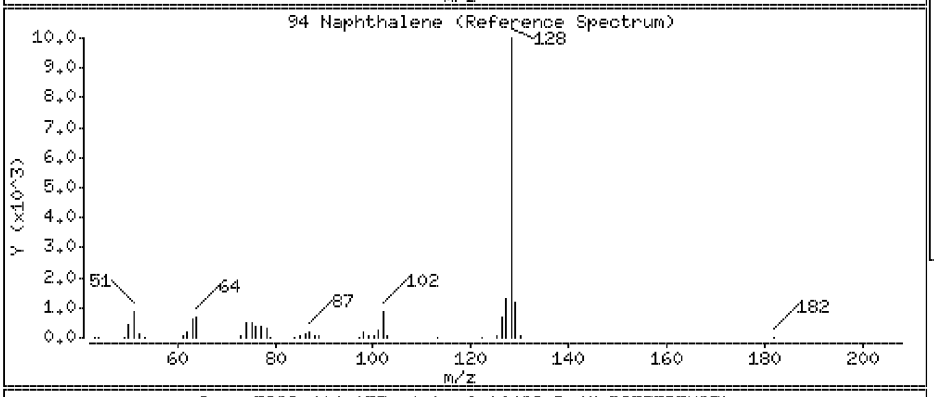
Column diameter: 0.32

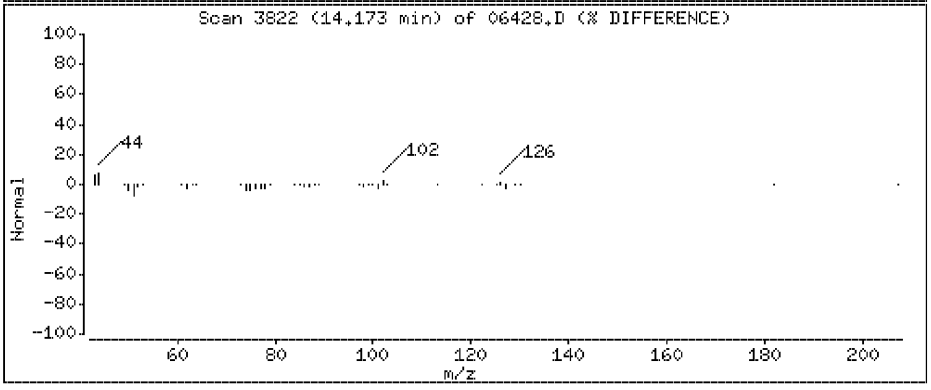
94 Naphthalene

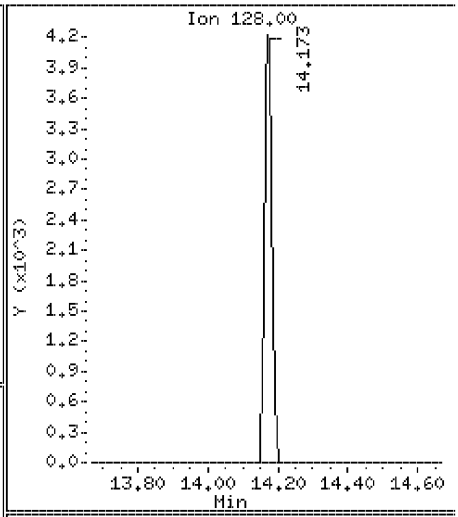
Concentration: 0.930 ppbv

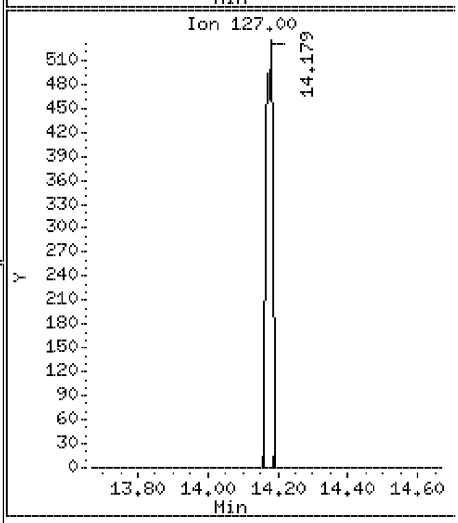






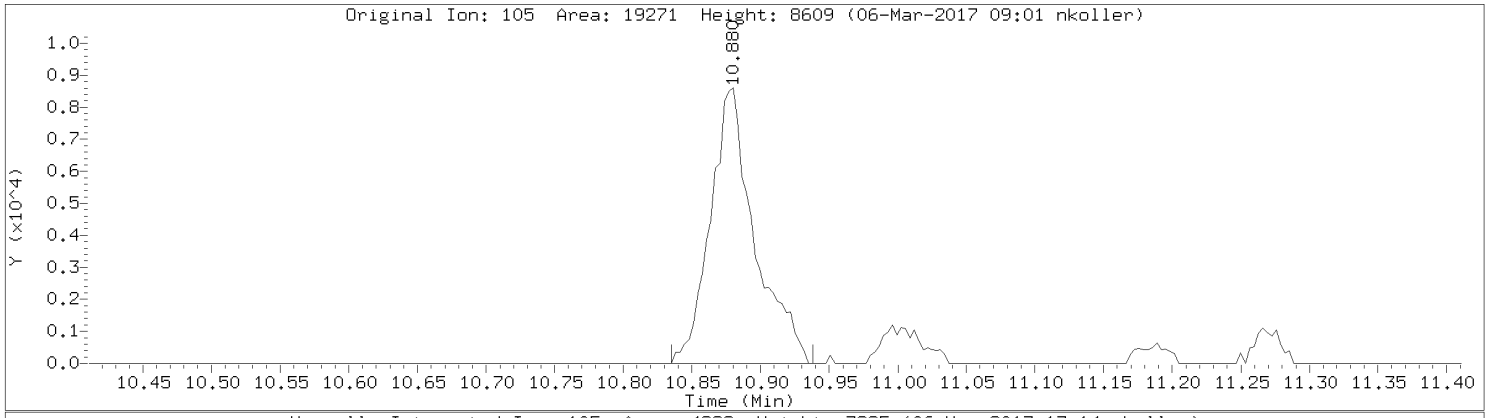


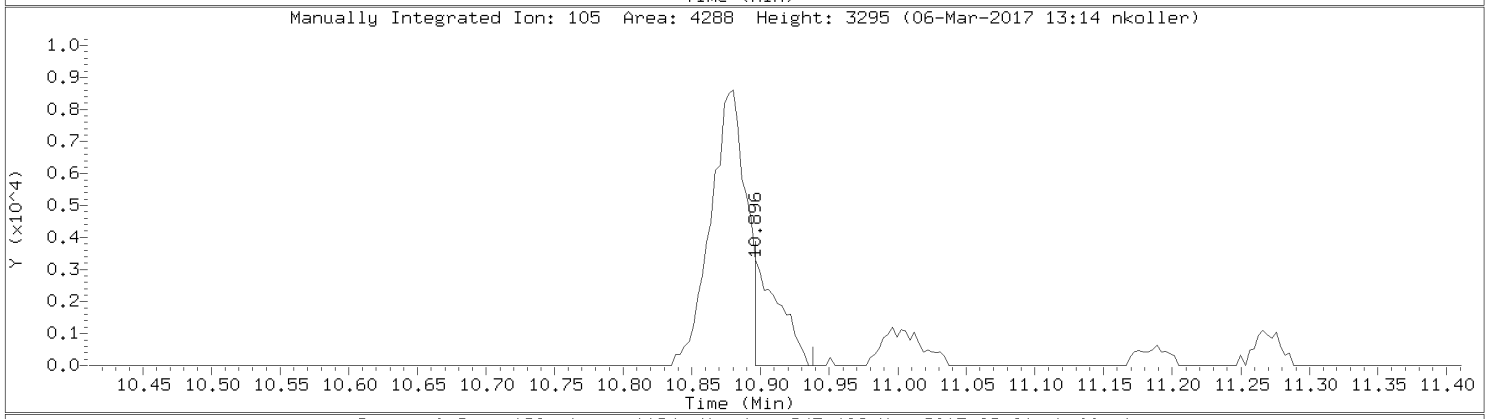


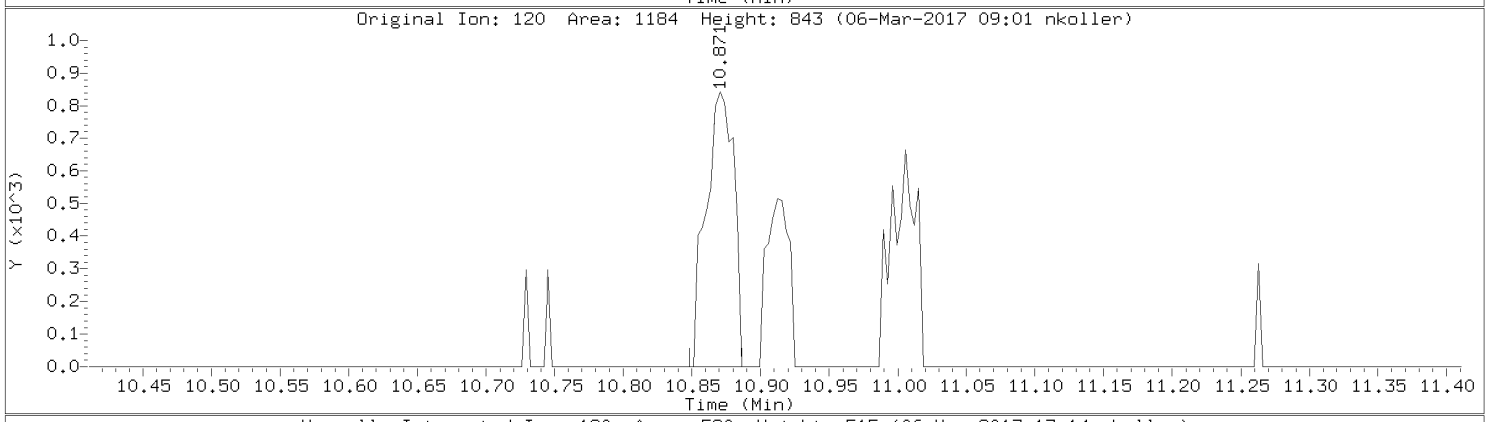


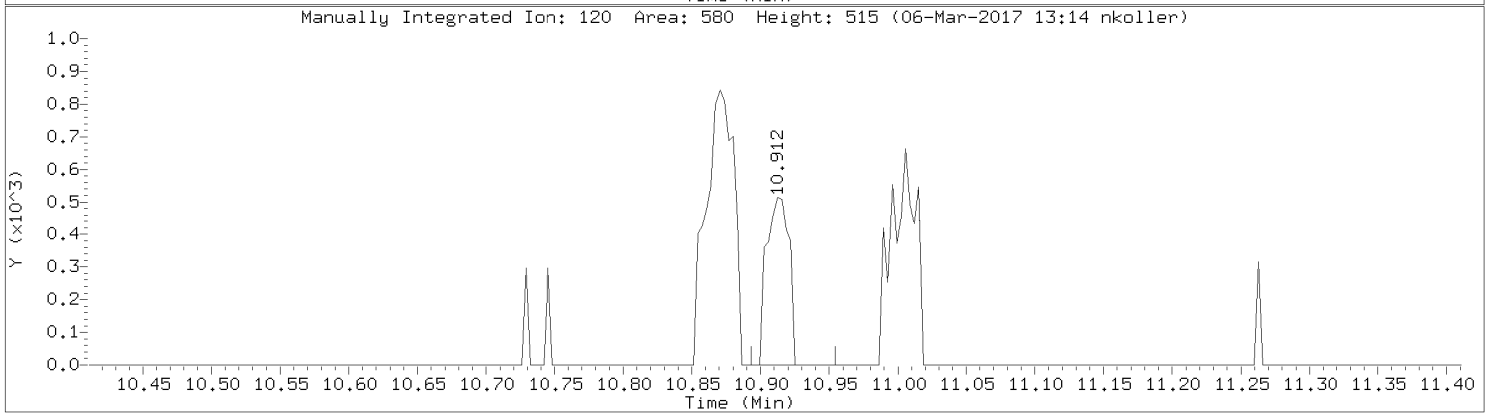
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06428.D
Injection Date: 05-MAR-2017 23:10
Instrument: 10airB.i
Lab Sample ID: 10380193009

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

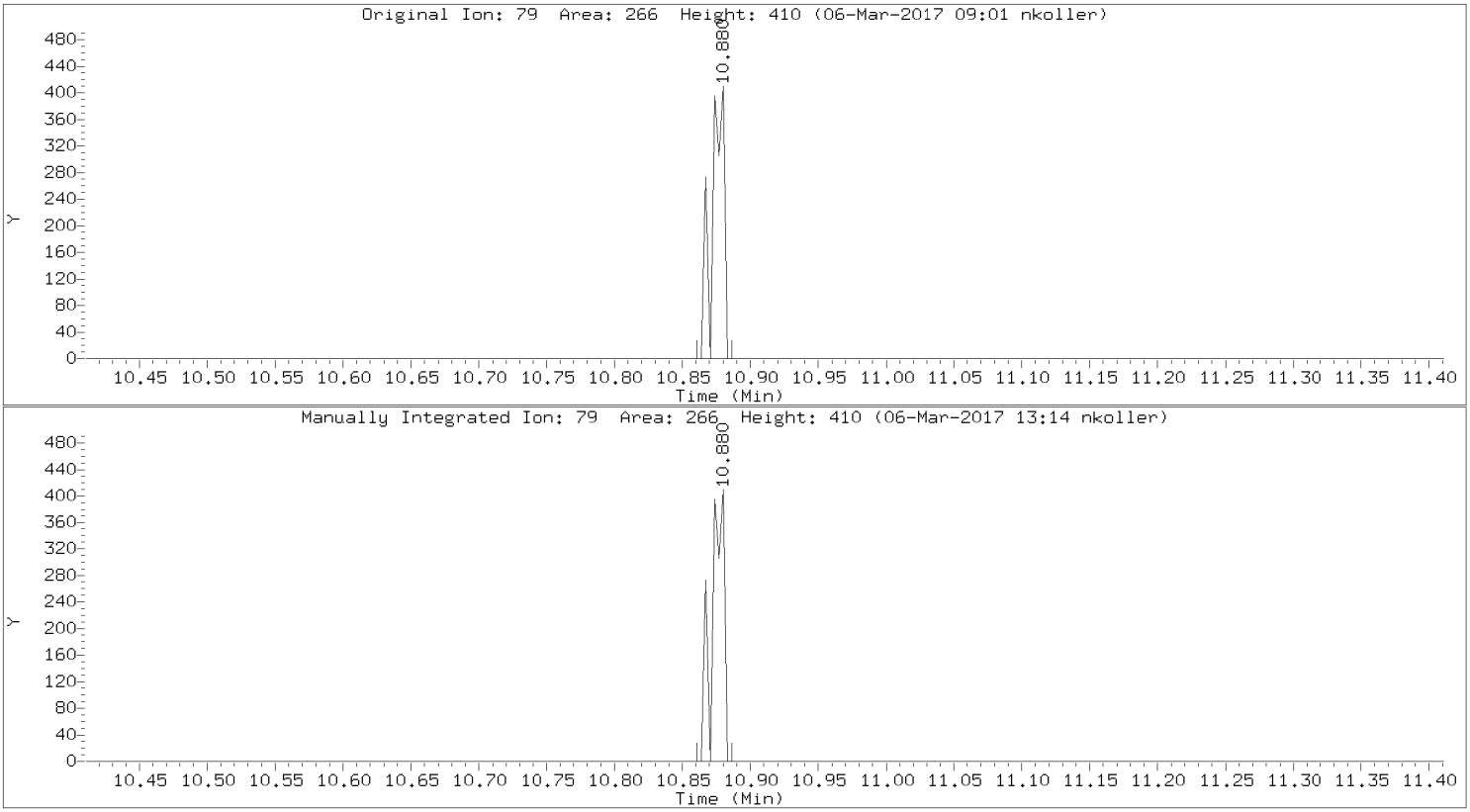








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06428.D
Injection Date: 05-MAR-2017 23:10
Instrument: 10airB.i
Lab Sample ID: 10380193009



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06512.D
Report Date: 07-Mar-2017 14:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06512.D
Lab Smp Id: 10380193009
Inj Date : 06-MAR-2017 14:06
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 13:55 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 12
Dil Factor: 292.80000
Integrator: HP RTE Compound Sublist: dil.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	292.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	22 Freon 113	101	3.934	3.954	(0.703)	2204	0.08099	23.7
	28 trans-1,2-dichloroethene	96	Compound Not Detected.					
	37 cis-1,2-Dichloroethene	96	4.696	4.725	(0.839)	20182	1.53608	450(Q)
	39 Chloroform	83	4.806	4.841	(0.858)	3262	0.11979	35.1
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1314471	10.0000	
	51 Trichloroethene	130	5.976	5.989	(1.067)	211789	9.58947	2810
	66 Tetrachloroethene	166	7.983	7.989	(0.924)	34719	1.17915	345
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	847945	10.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06512.D
Report Date: 07-Mar-2017 14:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06512.D
Lab Smp Id: 10380193009
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

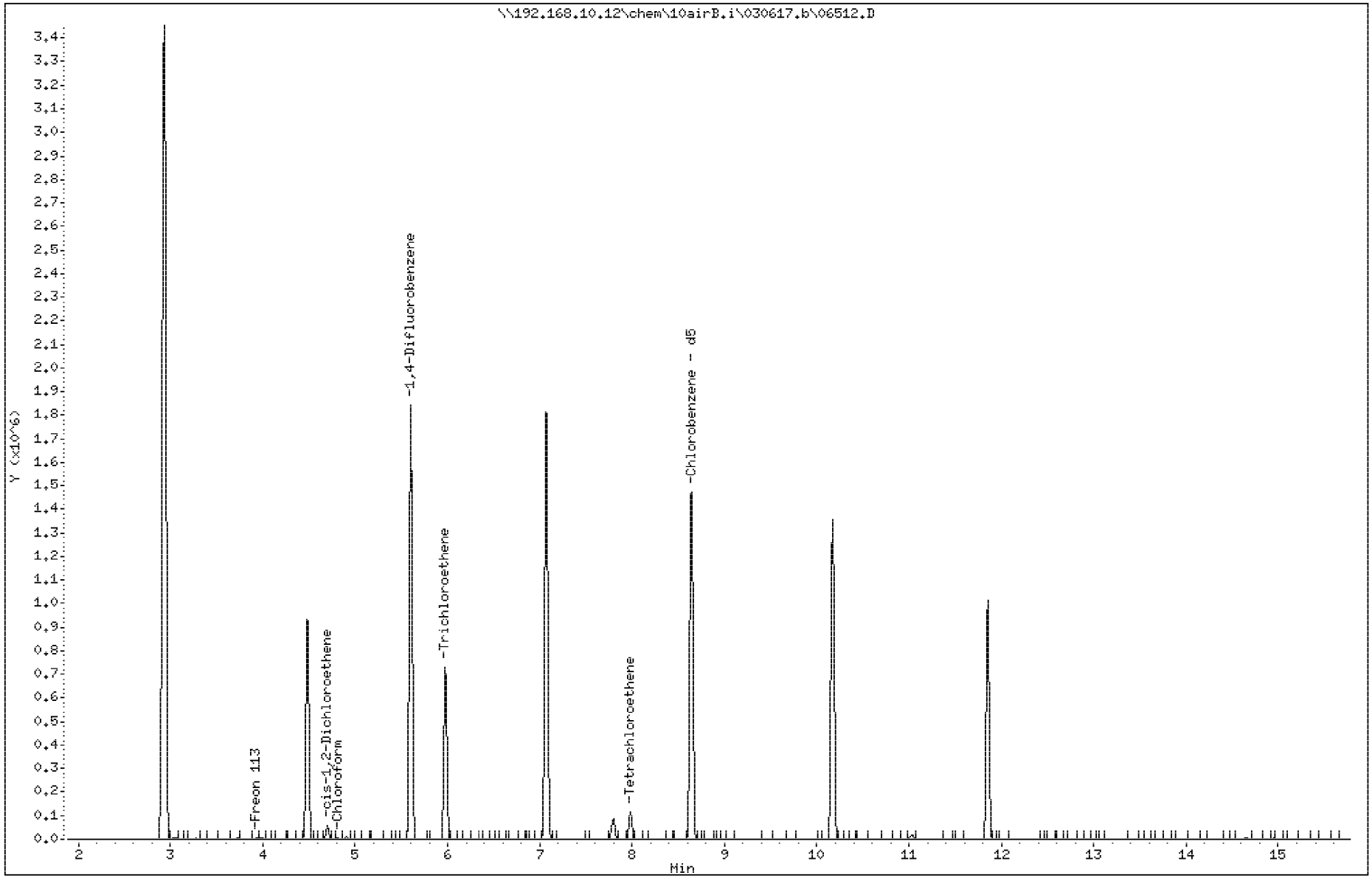
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1314471	-7.05
67 Chlorobenzene - d	951026	570616	1331436	847945	-10.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06512.D
Date : 06-MAR-2017 14:06
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06512.D

Date : 06-MAR-2017 14:06

Client ID:

Instrument: 10airB.i

Sample Info:

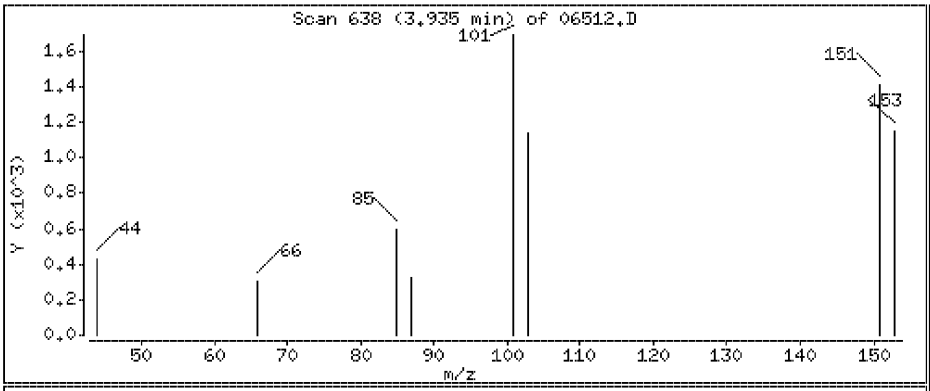
Operator: NCK

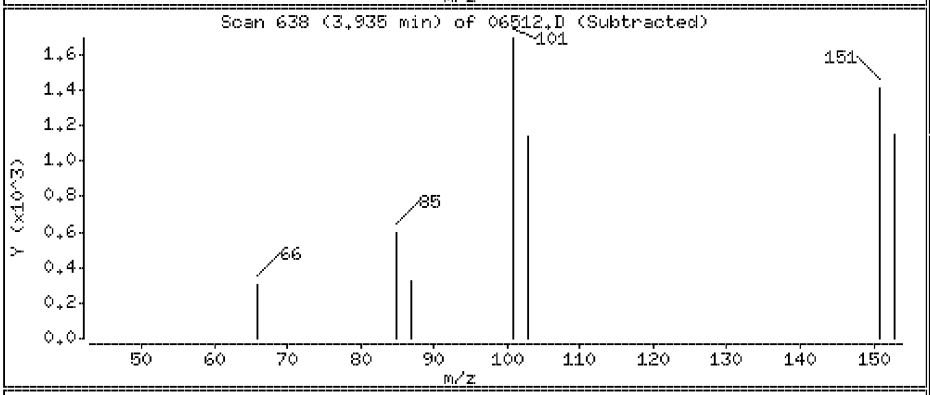
Column phase: J&W DB-5

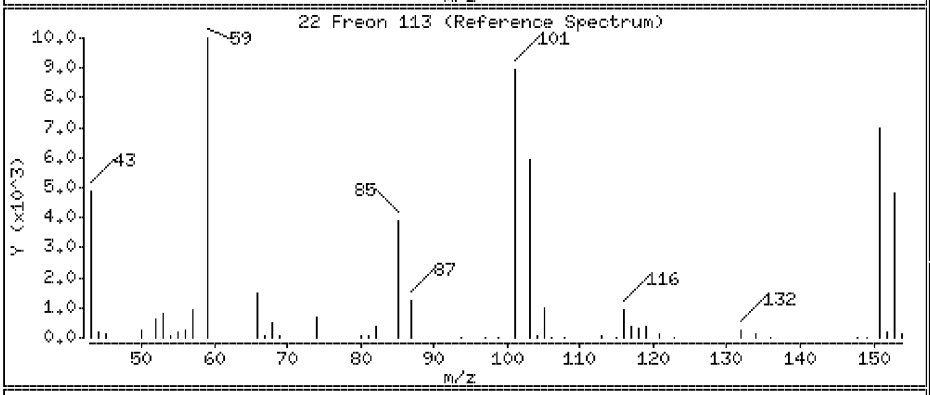
Column diameter: 0.32

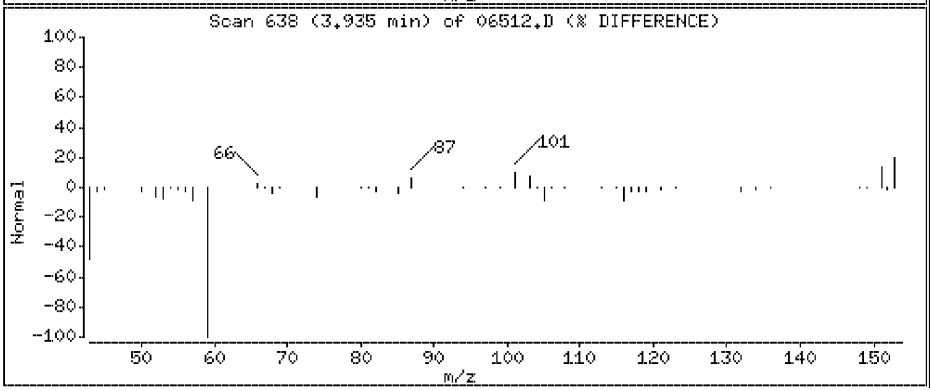
22 Freon 113

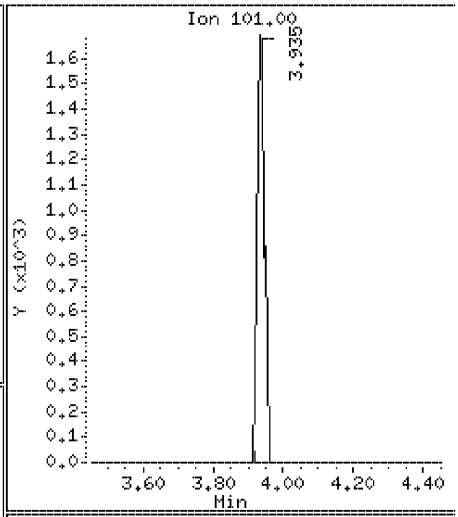
Concentration: 23.7 ppbv

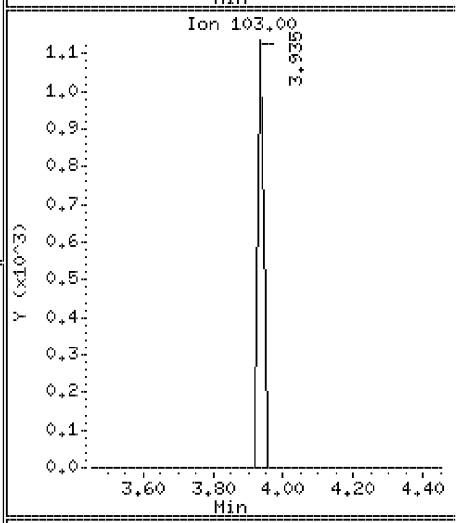


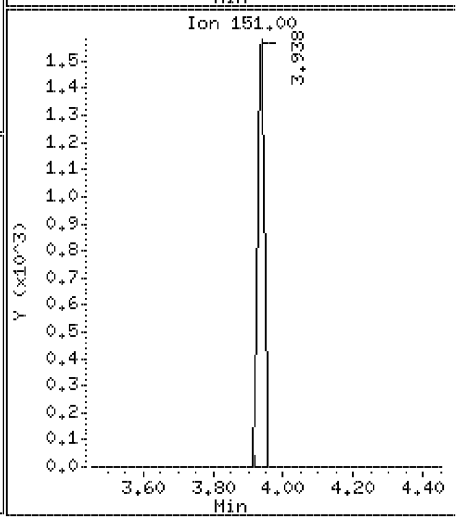












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06512.D

Date : 06-MAR-2017 14:06

Client ID:

Instrument: 10airB.i

Sample Info:

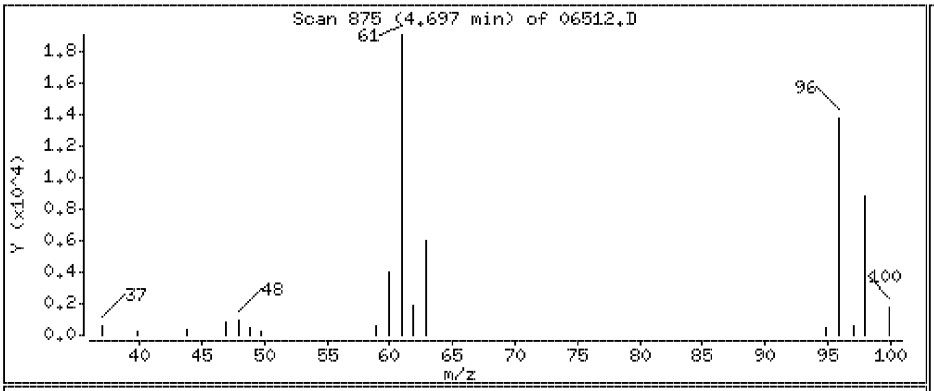
Operator: NCK

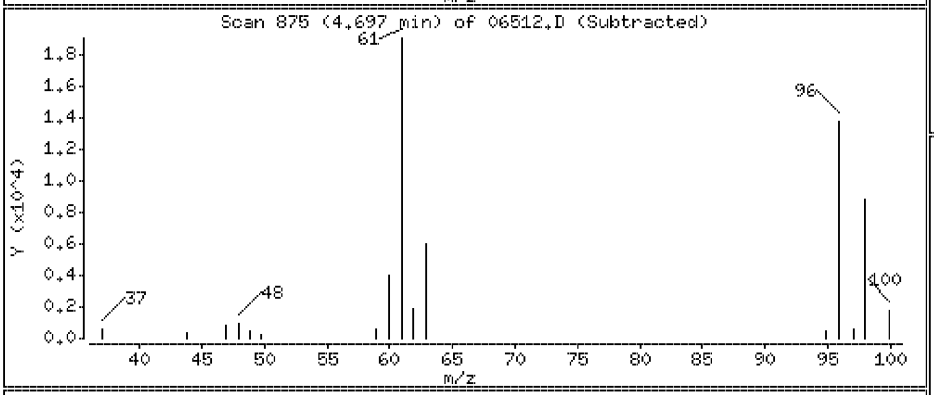
Column phase: J&W DB-5

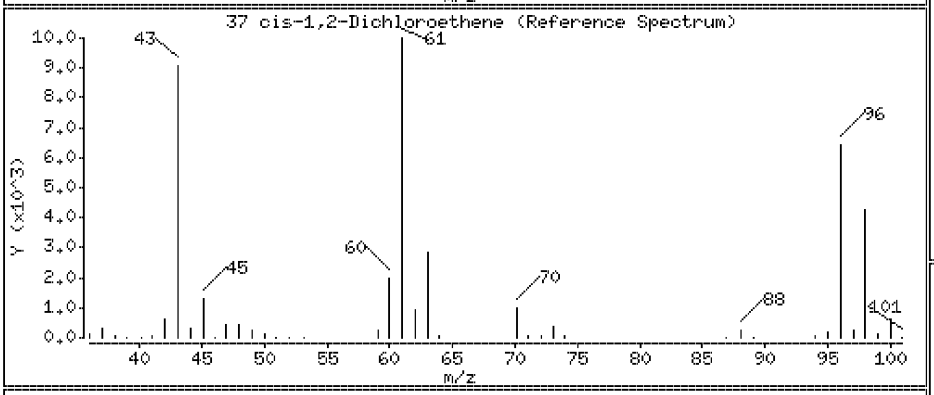
Column diameter: 0.32

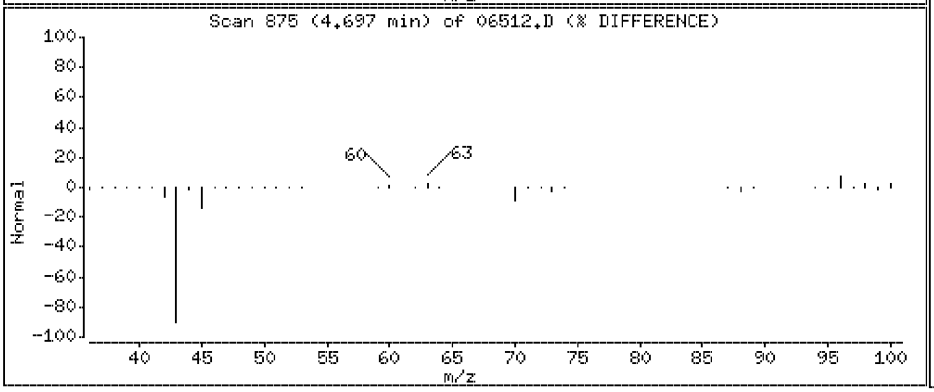
37 cis-1,2-Dichloroethene

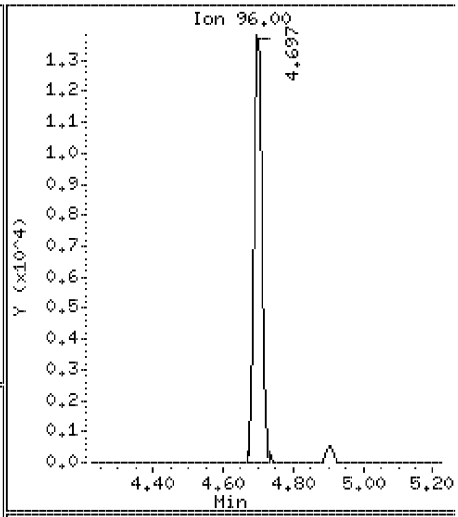
Concentration: 450 ppbv

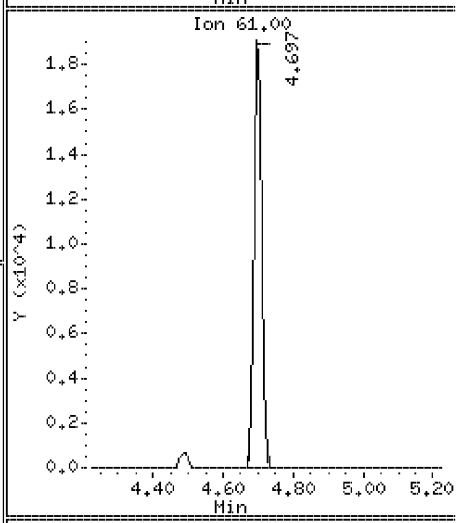


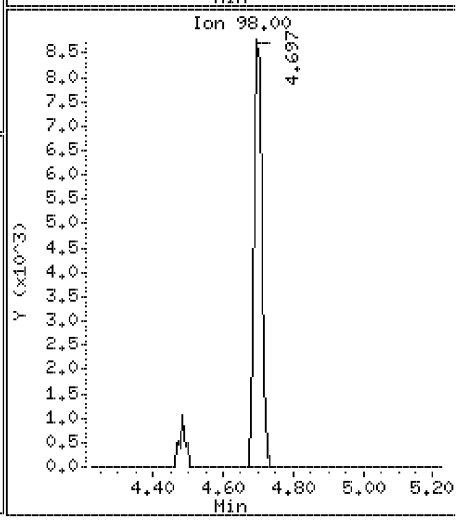












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06512.D

Date : 06-MAR-2017 14:06

Client ID:

Instrument: 10airB.i

Sample Info:

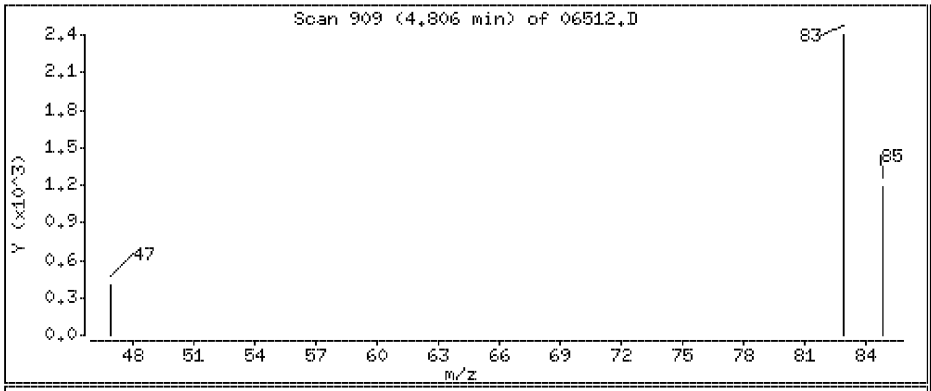
Operator: NCK

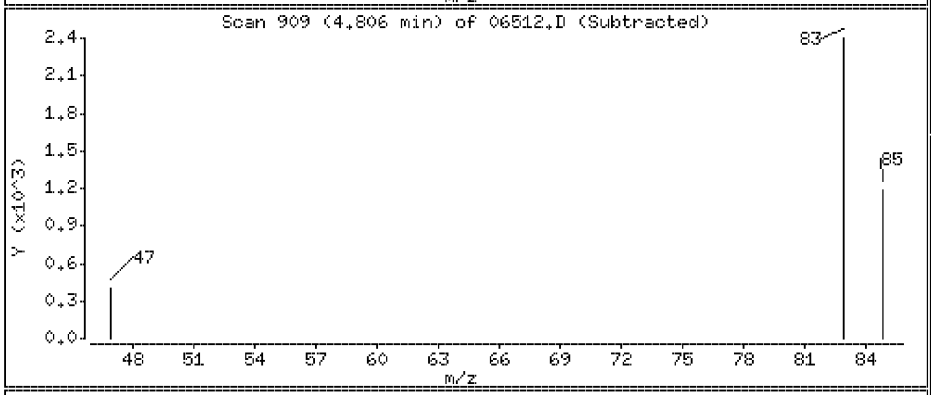
Column phase: J&W DB-5

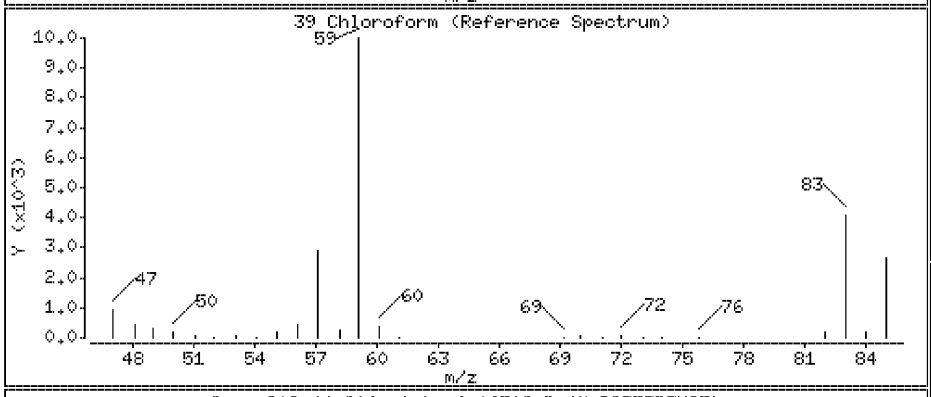
Column diameter: 0.32

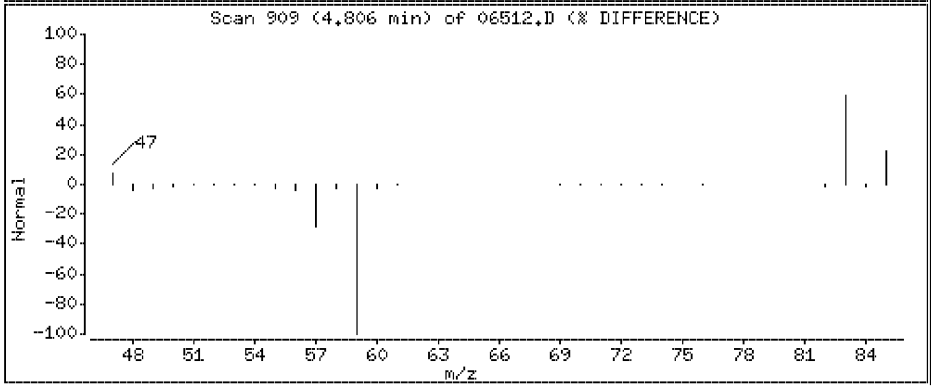
39 Chloroform

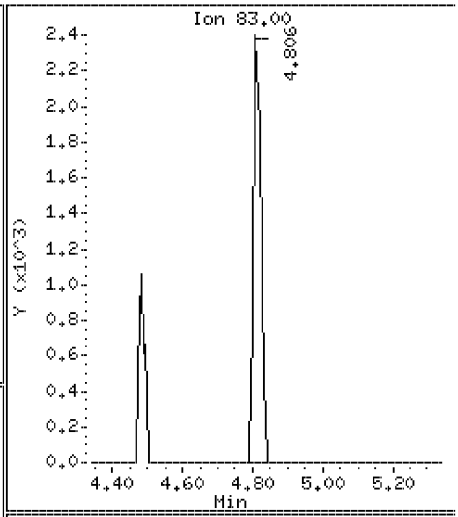
Concentration: 35.1 ppbv

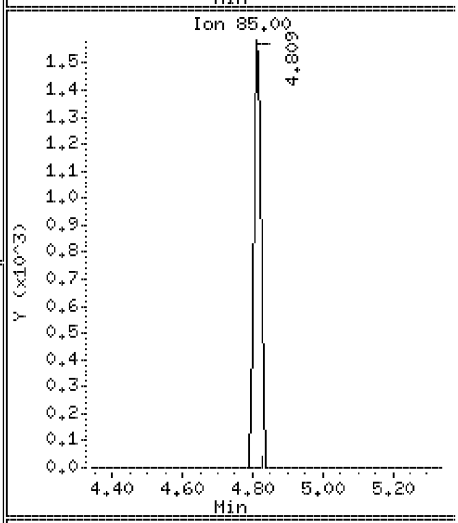


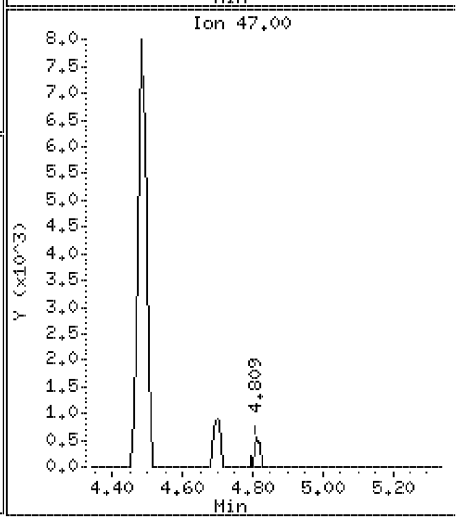












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06512.D

Date : 06-MAR-2017 14:06

Client ID:

Instrument: 10airB.i

Sample Info:

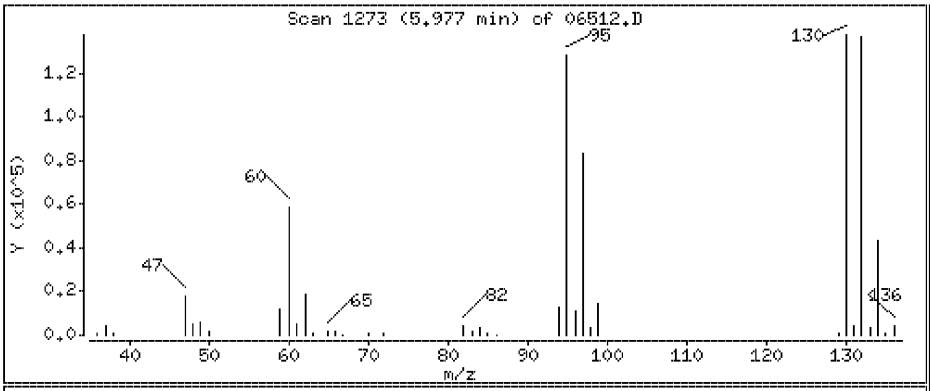
Operator: NCK

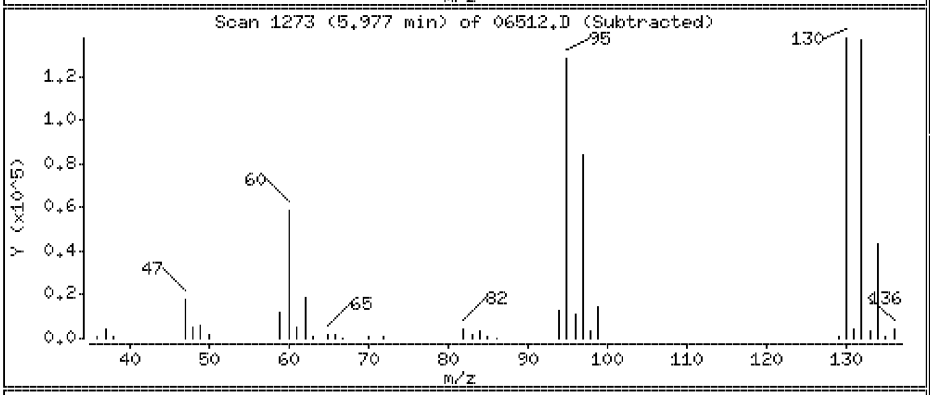
Column phase: J&W DB-5

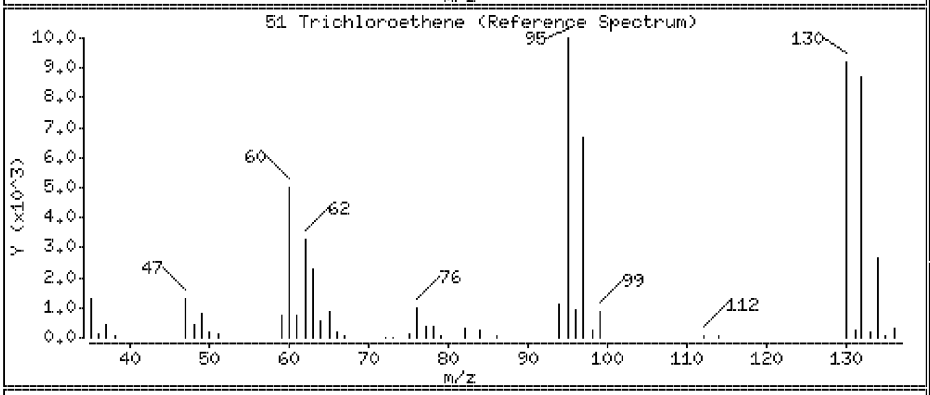
Column diameter: 0.32

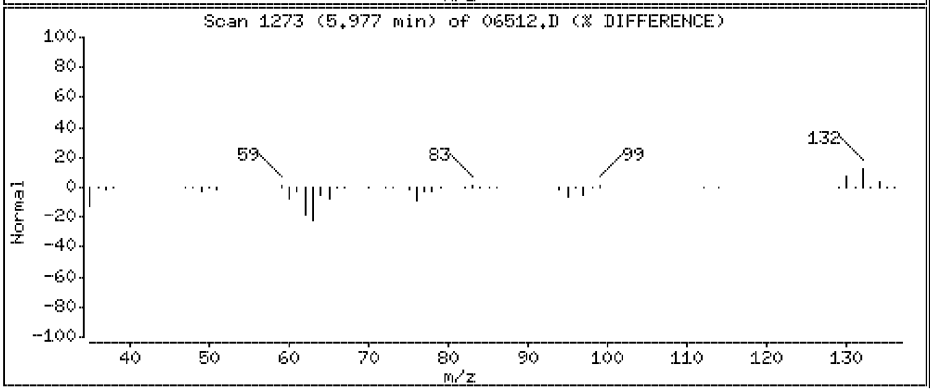
51 Trichloroethene

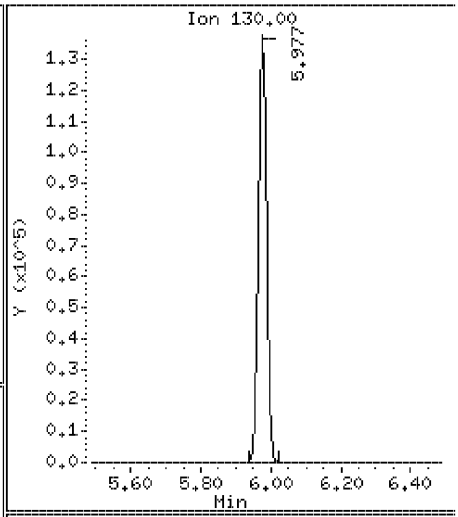
Concentration: 2810 ppbv

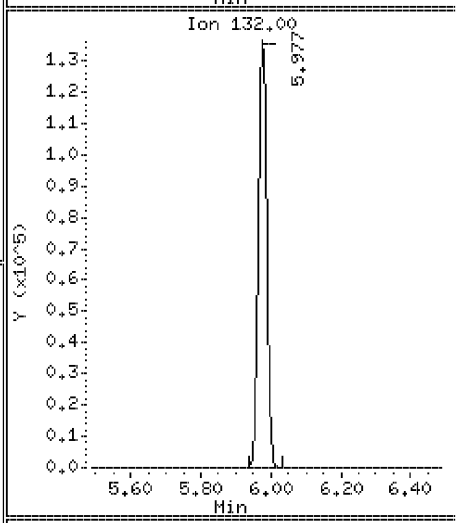


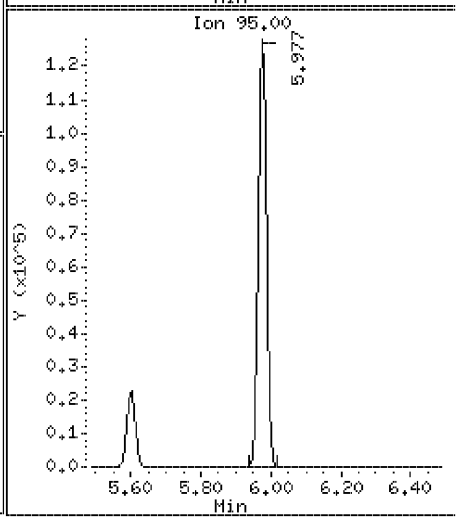












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06512.D

Date : 06-MAR-2017 14:06

Client ID:

Instrument: 10airB.i

Sample Info:

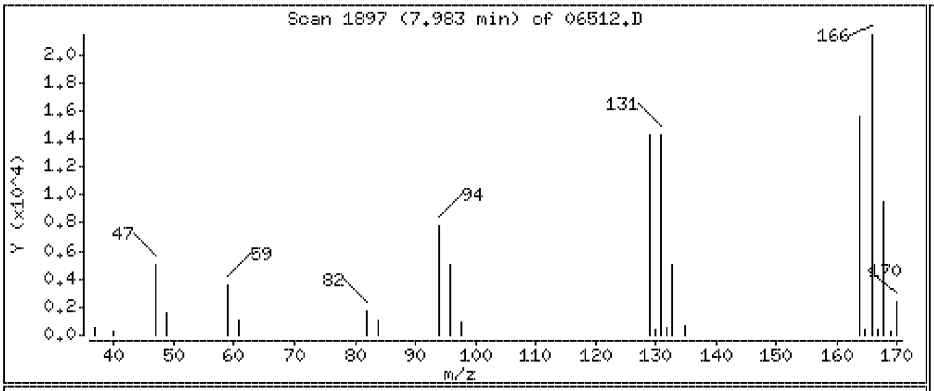
Operator: NCK

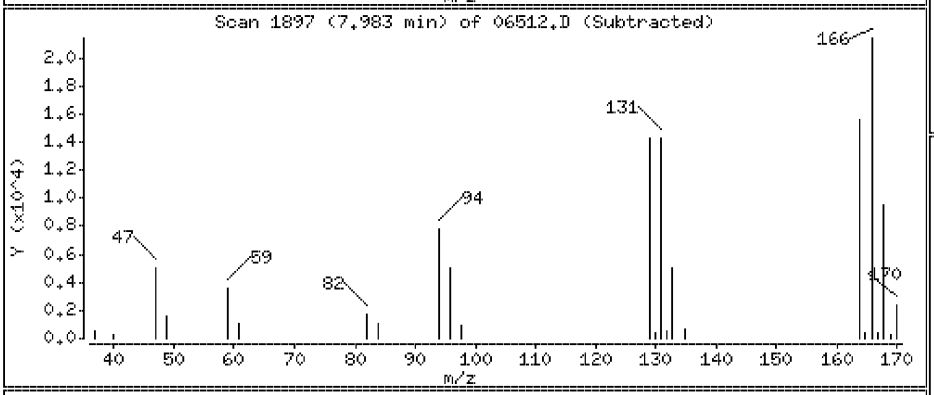
Column phase: J&W DB-5

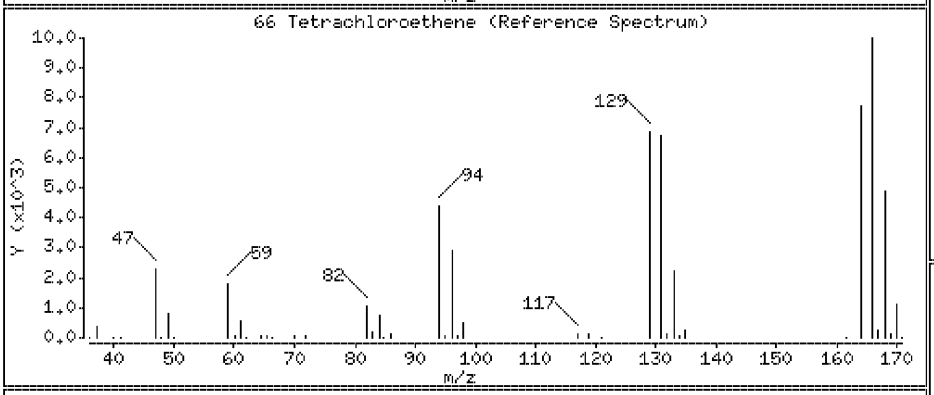
Column diameter: 0.32

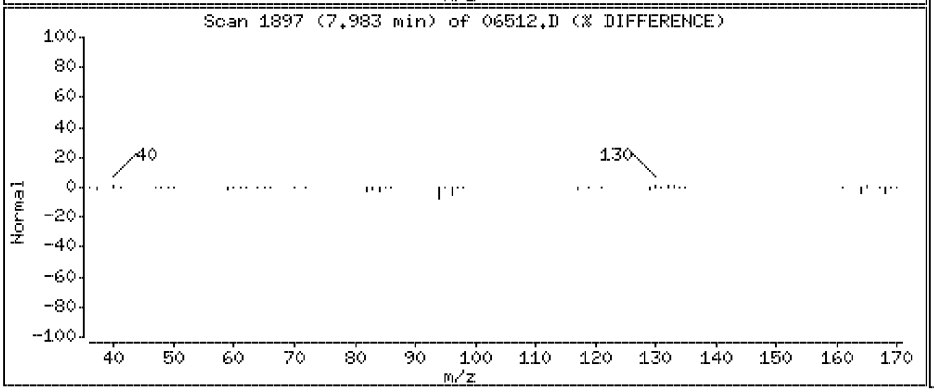
66 Tetrachloroethene

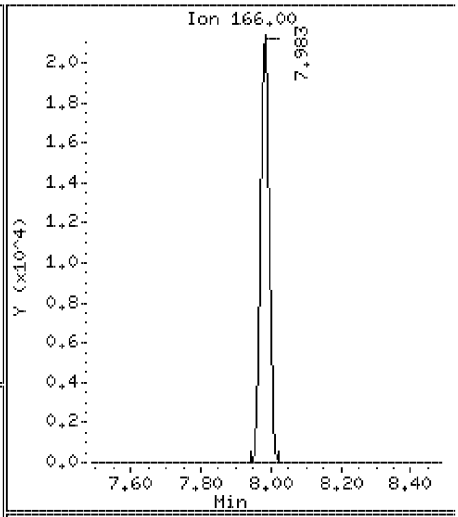
Concentration: 345 ppbv

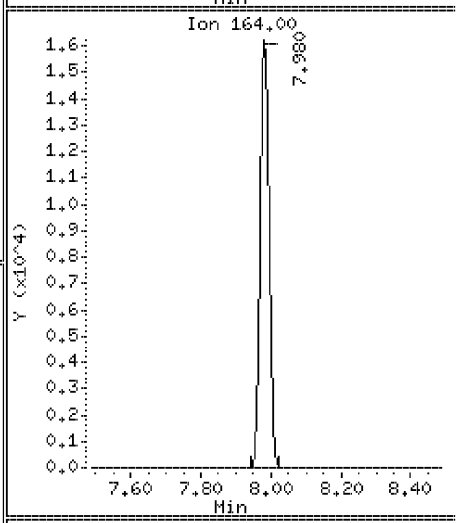


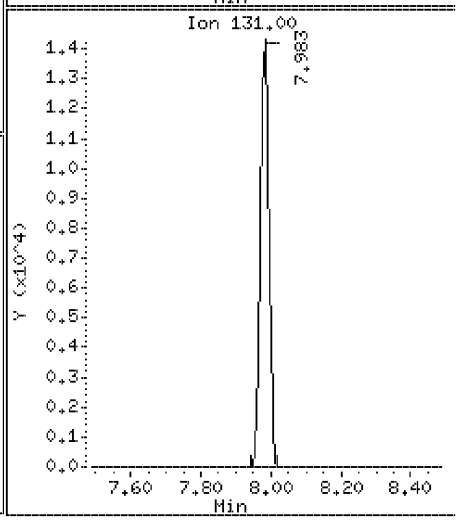












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06512.D
Injection Date: 06-MAR-2017 14:06
Instrument: 10airB.i
Lab Sample ID: 10380193009
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_40_20170223 **Lab ID: 10380193010** Collected: 02/23/17 12:10 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.6**	ug/m3	4.2	1.5	1.75		03/05/17 23:41	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/05/17 23:41	107-05-1	
Benzene	**91.1**	ug/m3	0.57	0.21	1.75		03/05/17 23:41	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/05/17 23:41	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/05/17 23:41	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/05/17 23:41	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/05/17 23:41	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/05/17 23:41	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/05/17 23:41	75-15-0	
Carbon tetrachloride	**32.4**	ug/m3	1.1	0.34	1.75		03/05/17 23:41	56-23-5	
Chlorobenzene	**1.0J**	ug/m3	1.6	0.23	1.75		03/05/17 23:41	108-90-7	
Chlorodifluoromethane	**58.0**	ug/m3	1.3	0.48	1.75		03/05/17 23:41	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/05/17 23:41	75-00-3	
Chloroform	**648**	ug/m3	0.87	0.33	1.75		03/05/17 23:41	67-66-3	
Chloroform	**3740J**	ug/m3	4440	1700	8960		03/06/17 15:30	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/05/17 23:41	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 23:41	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/05/17 23:41	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/05/17 23:41	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/05/17 23:41	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/05/17 23:41	106-93-4	
1,2-Dichlorobenzene	**1.6J**	ug/m3	2.1	0.90	1.75		03/05/17 23:41	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/05/17 23:41	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/05/17 23:41	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	1.8	0.84	1.75		03/05/17 23:41	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/05/17 23:41	75-34-3	
1,2-Dichloroethane	**17.5**	ug/m3	0.72	0.36	1.75		03/05/17 23:41	107-06-2	
1,1-Dichloroethene	**589**	ug/m3	1.4	0.42	1.75		03/05/17 23:41	75-35-4	
1,1-Dichloroethene	**2910J**	ug/m3	7260	2130	8960		03/06/17 15:30	75-35-4	
cis-1,2-Dichloroethene	**6490**	ug/m3	1.4	0.43	1.75		03/05/17 23:41	156-59-2	
cis-1,2-Dichloroethene	**342000**	ug/m3	7260	2200	8960		03/06/17 15:30	156-59-2	A3
trans-1,2-Dichloroethene	**377**	ug/m3	1.4	0.67	1.75		03/05/17 23:41	156-60-5	
trans-1,2-Dichloroethene	**<3440**	ug/m3	7260	3440	8960		03/06/17 15:30	156-60-5	A3
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/05/17 23:41	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/05/17 23:41	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/05/17 23:41	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/05/17 23:41	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 23:41	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/05/17 23:41	123-91-1	
Ethylbenzene	**2.9**	ug/m3	1.5	0.74	1.75		03/05/17 23:41	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.8	0.33	1.75		03/05/17 23:41	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/05/17 23:41	87-68-3	
n-Hexane	**7.6**	ug/m3	1.3	0.62	1.75		03/05/17 23:41	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/05/17 23:41	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/05/17 23:41	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/05/17 23:41	79-20-9	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D
Report Date: 07-Mar-2017 15:52

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06429.D
Lab Smp Id: 10380193010
Inj Date : 05-MAR-2017 23:41
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 07-Mar-2017 15:51 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 29
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.031	2.989	(0.535)	33196	9.21504	16.1(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	3.250	3.201	(0.574)	213172	16.7592	29.3(H)	
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.555	3.542	(0.628)	10972	2.33006	4.08	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.597	3.578	(0.635)	38001	2.84686	4.98(M)	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.684	3.655	(0.650)	493898	14.0574	24.6(H)	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.748	3.713	(0.662)	55735	2.74102	4.80(QM)	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.925	3.896	(0.693)	1705078	83.4447	146(A)	
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.986	3.934	(0.704)	4113956	155.058	271(A)	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D
Report Date: 07-Mar-2017 15:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.291	4.269	(0.758)	612479	53.4219	93.5(A)	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.552	4.481	(0.804)	339952	8.33772	8.34(H)	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.645	4.578	(0.820)	24672	1.20728	2.11(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.742	4.722	(0.837)	11785825	920.080	1610(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	4.886	4.838	(0.863)	1981500	74.6334	131(A)	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	5.288	5.233	(0.934)	57724	2.43621	4.26	
	43 Benzene	78	5.523	5.465	(0.975)	662193	16.0218	28.0	
	44 Carbon tetrachloride	117	5.536	5.484	(0.977)	90350	2.89441	5.07	
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.664	5.610	(1.000)	1281545	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.086	5.986	(1.074)	26257888	1219.46	2130(AM)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	6.545	6.430	(1.156)	18885	1.65489	2.90(QM)	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.169	7.076	(1.266)	1058819	9.23106	9.23	
	60 1,1,2-Trichloroethane	97	7.230	7.143	(1.276)	166557	9.69022	17.0(H)	
	61 Toluene	91	7.246	7.153	(1.279)	137766	2.66165	4.66	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.664	7.584	(0.880)	9759	0.34735	0.608(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.140	7.986	(0.934)	15991277	560.659	981(AM)	
*	67 Chlorobenzene - d5	117	8.712	8.645	(1.000)	821398	10.0000		
	68 Chlorobenzene	112	8.757	8.687	(1.005)	5003	0.12280	0.215	
	69 Ethyl Benzene	91	8.999	8.934	(1.033)	22502	0.37246	0.652	
	70 m&p-Xylene	91	9.134	9.082	(1.048)	45694	0.96364	1.69(MH)	
	71 n-Nonane	43	9.510	9.468	(1.092)	6046	0.24721	0.433(QM)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.626	9.581	(1.105)	13488	0.27959	0.489	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D
Report Date: 07-Mar-2017 15:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.925	10.912	(1.254)	4302	0.15897	0.278(QM)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.397	11.378	(2.012)	3346	0.33678	0.589(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.870	11.854	(1.362)	384161	8.49012	8.49	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	12.285	12.281	(1.410)	2141	0.15198	0.266	
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.182	14.169	(1.628)	2750	0.42078	0.736(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D
Report Date: 07-Mar-2017 15:52

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06429.D
Lab Smp Id: 10380193010
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

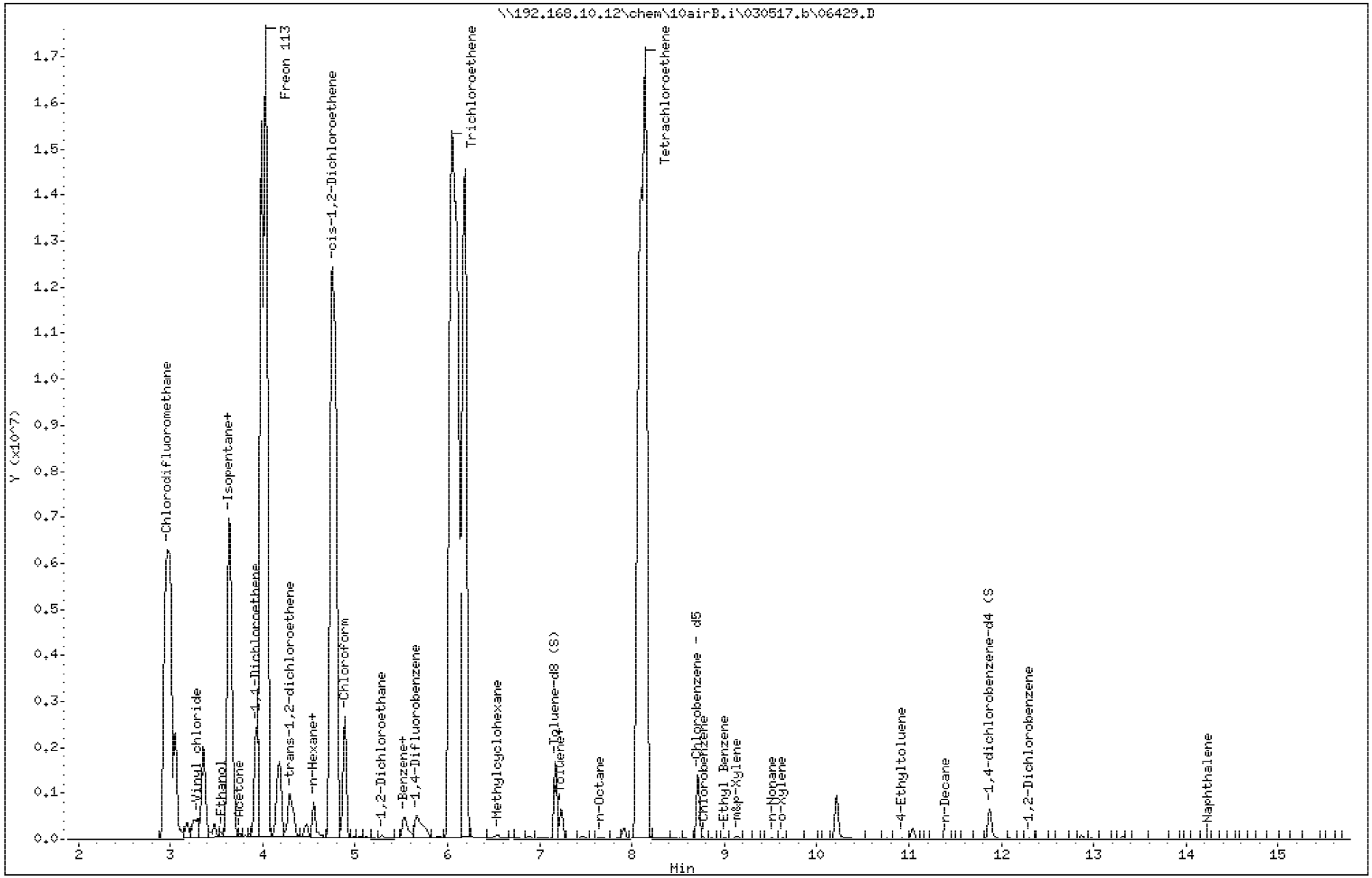
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1281545	-9.37
67 Chlorobenzene - d	951026	570616	1331436	821398	-13.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.66	0.98
67 Chlorobenzene - d	8.65	8.32	8.98	8.71	0.78

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D
Date : 05-MAR-2017 23:41
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

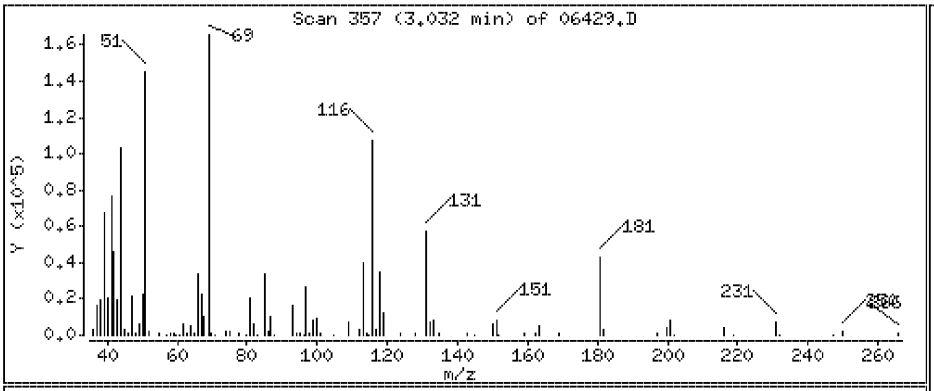
Operator: NCK

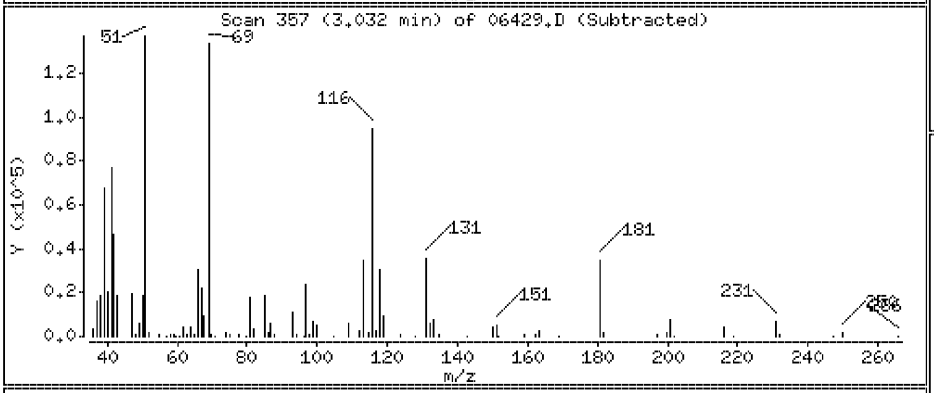
Column phase: J&W DB-5

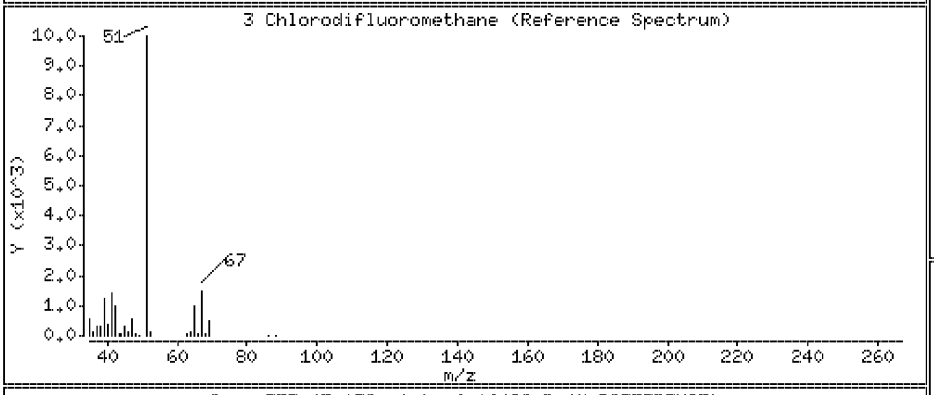
Column diameter: 0.32

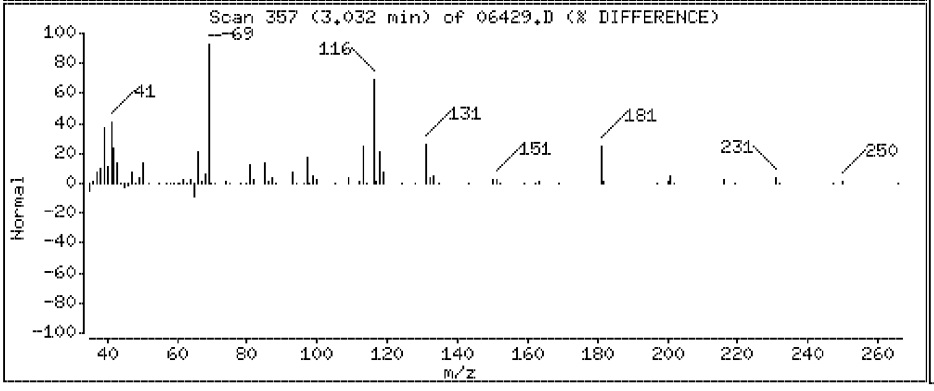
3 Chlorodifluoromethane

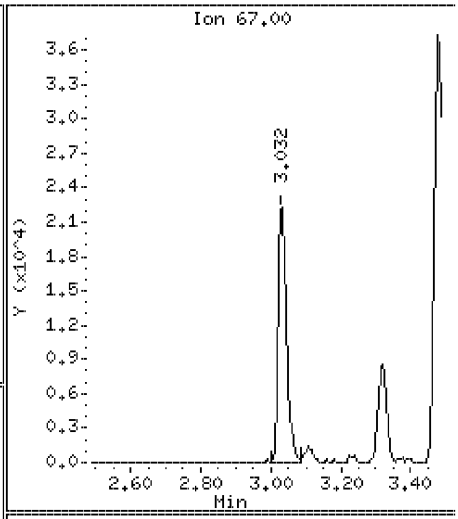
Concentration: 16.1 ppbv

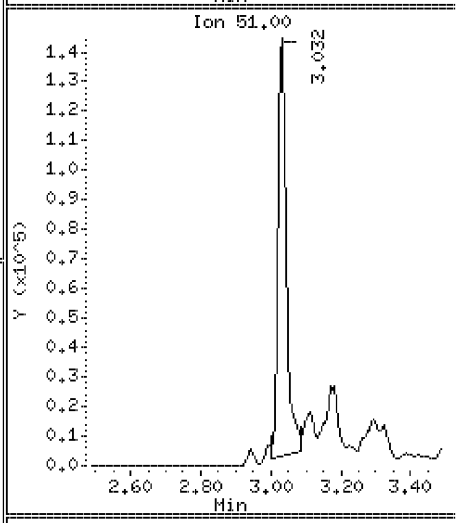


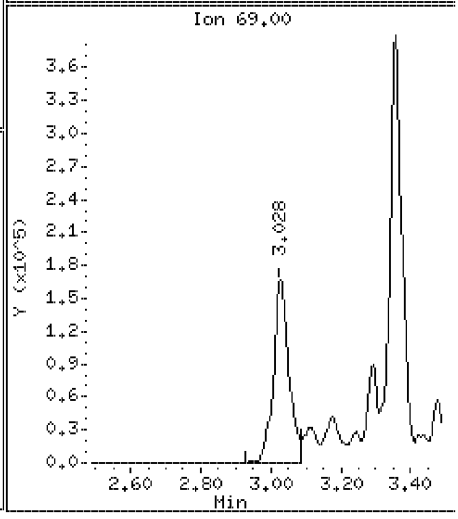












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

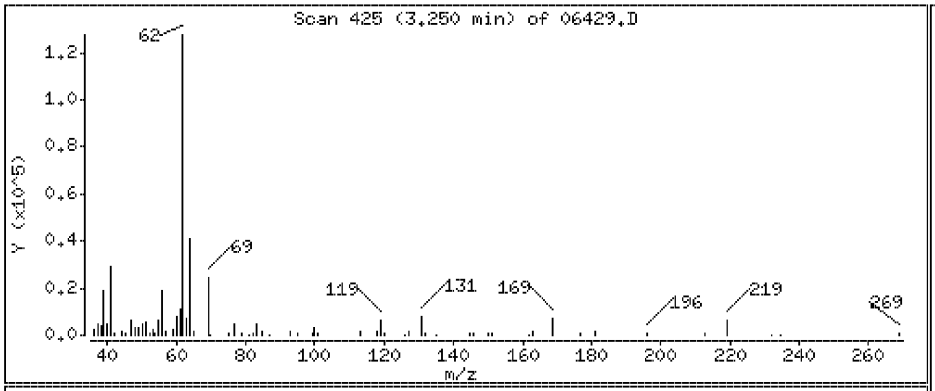
Operator: NCK

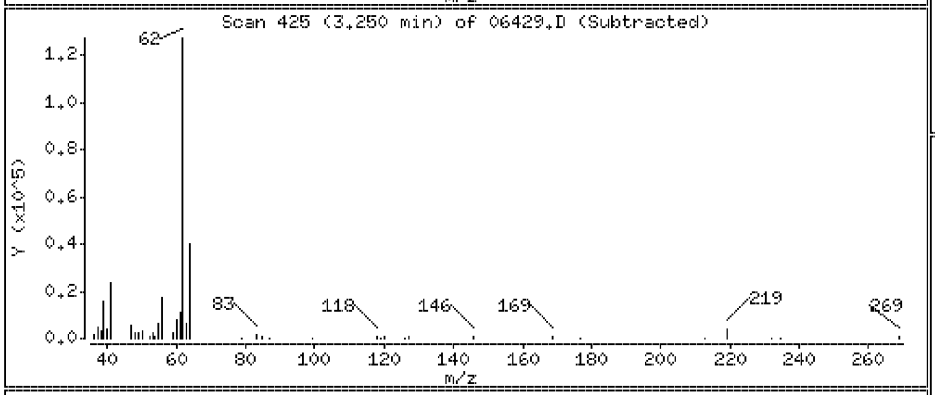
Column phase: J&W DB-5

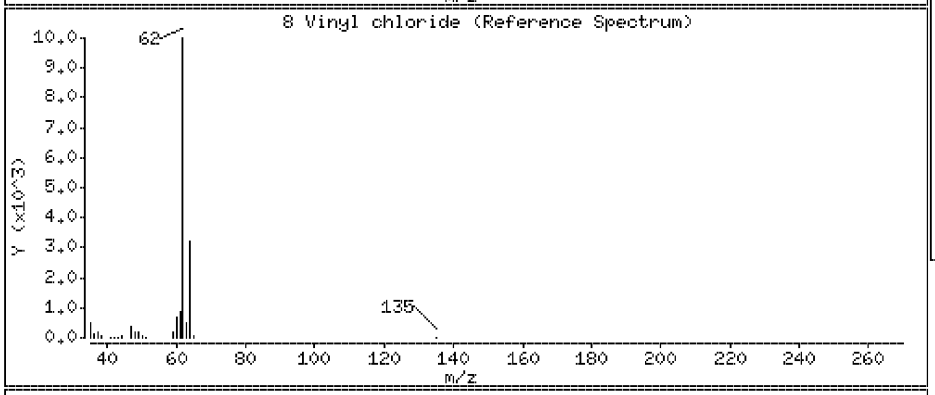
Column diameter: 0.32

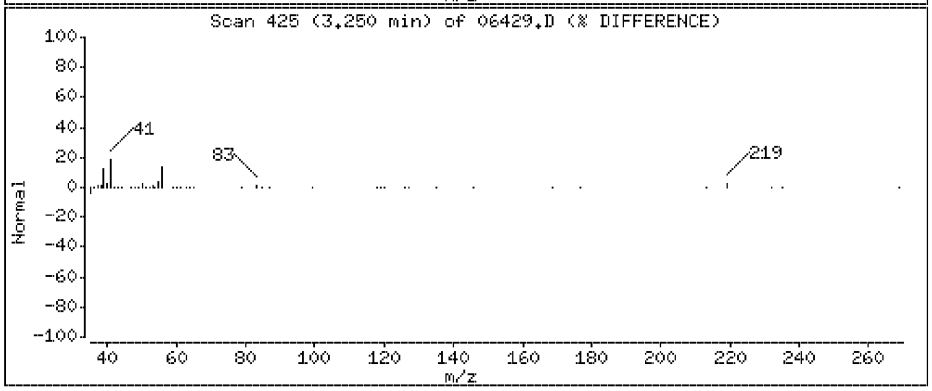
8 Vinyl chloride

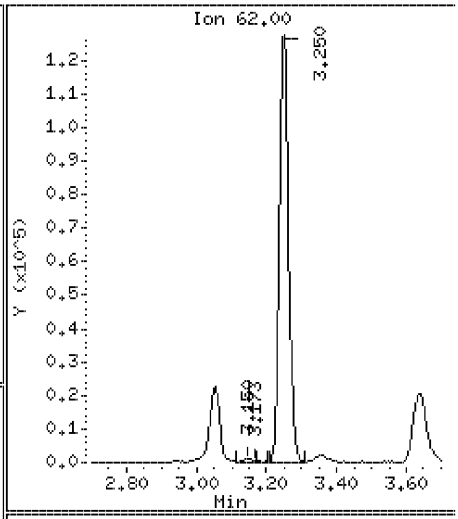
Concentration: 29.3 ppbv

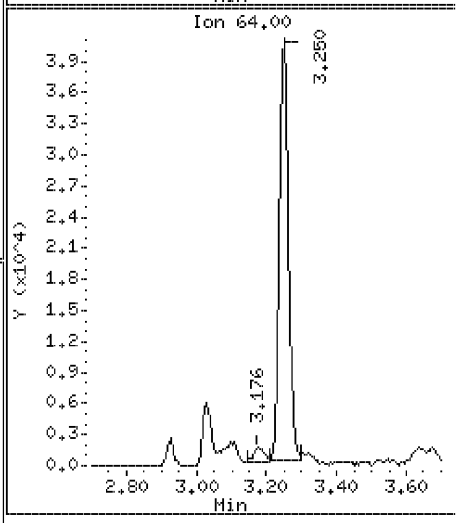












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

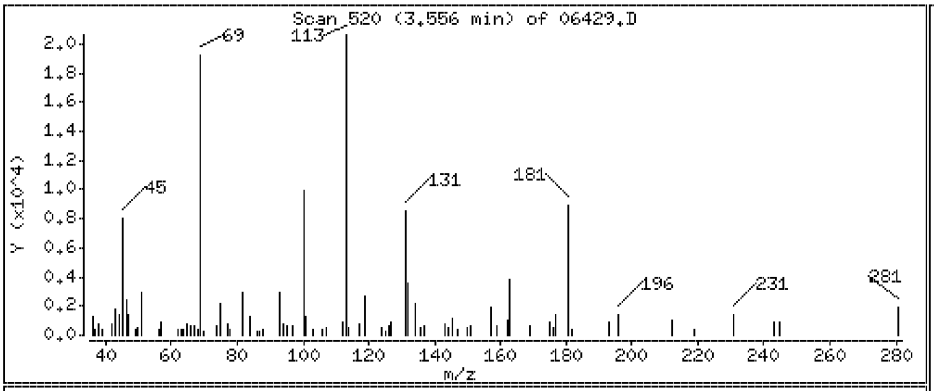
Operator: NCK

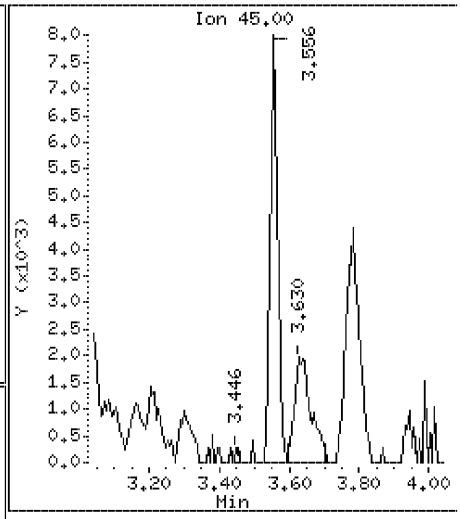
Column phase: J&W DB-5

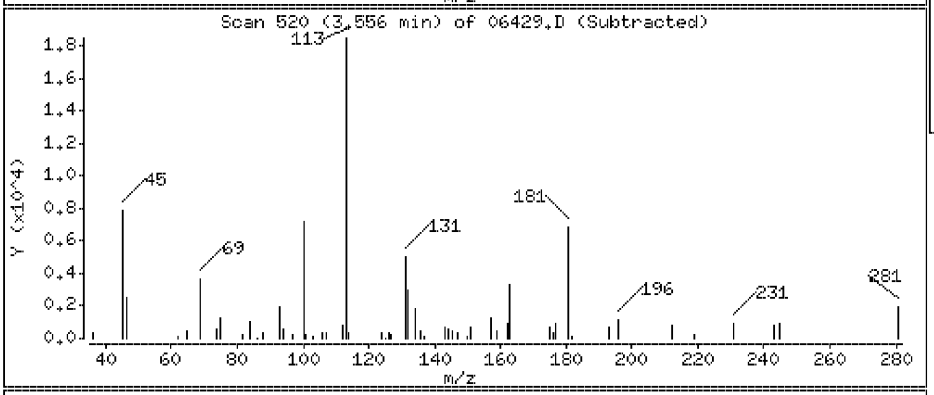
Column diameter: 0.32

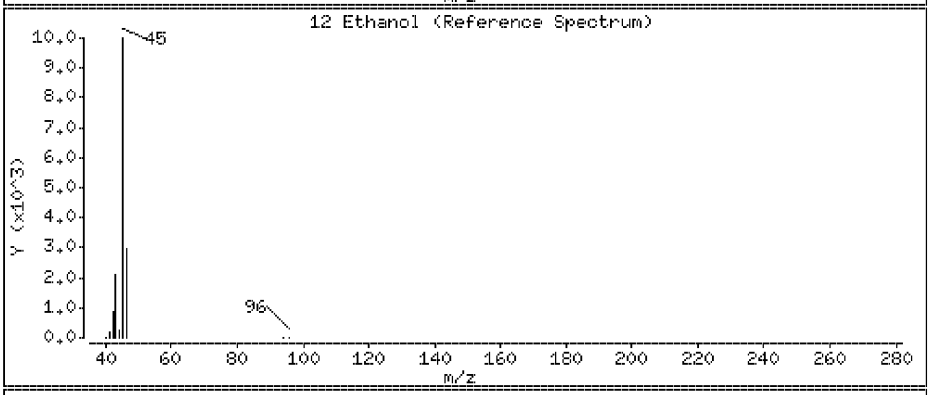
12 Ethanol

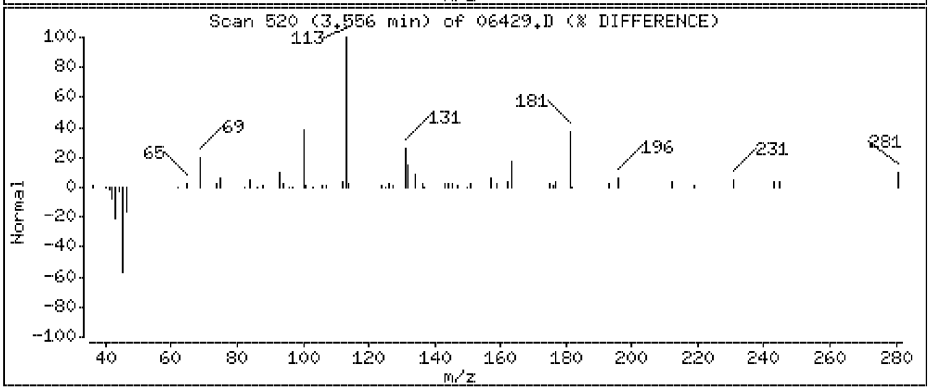
Concentration: 4.08 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

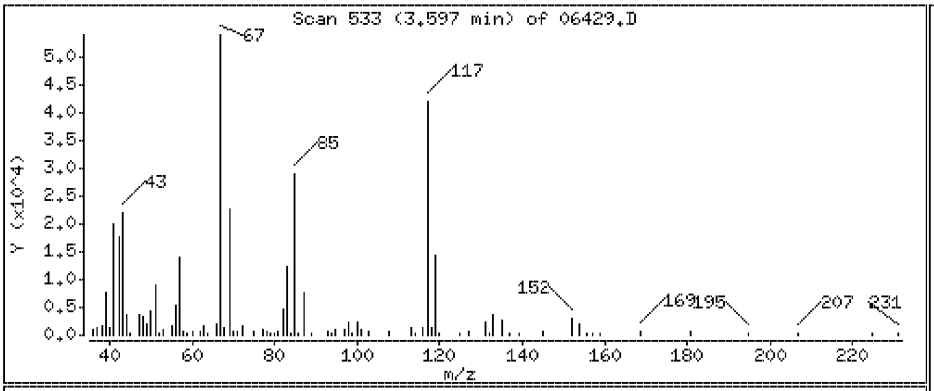
Operator: NCK

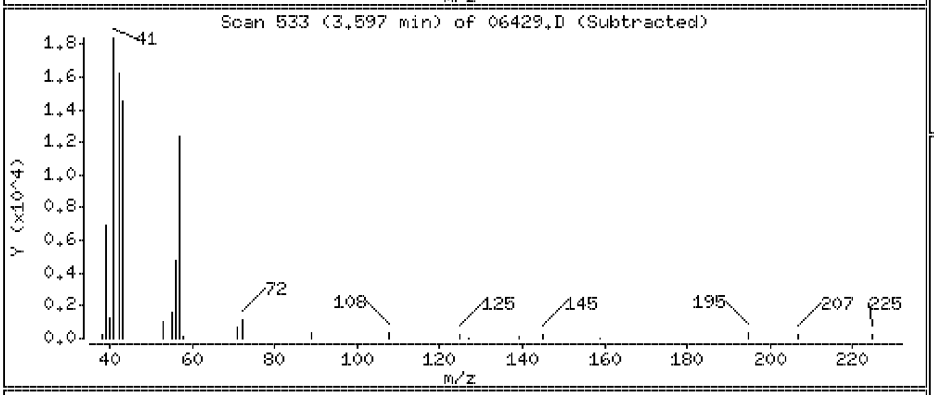
Column phase: J&W DB-5

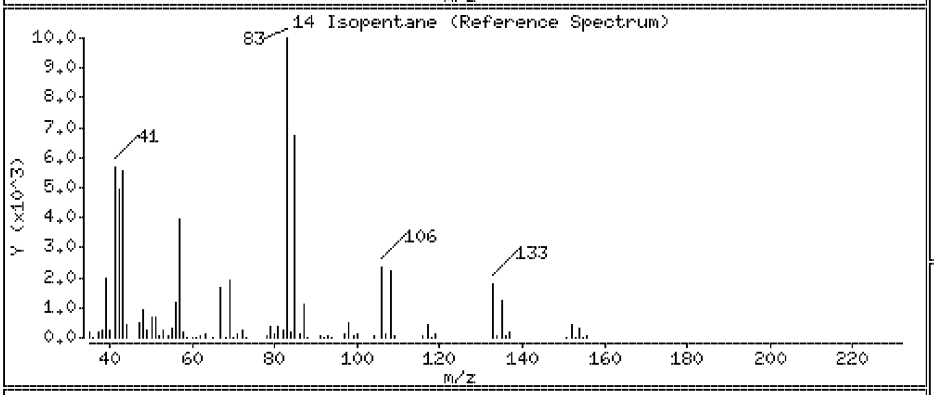
Column diameter: 0.32

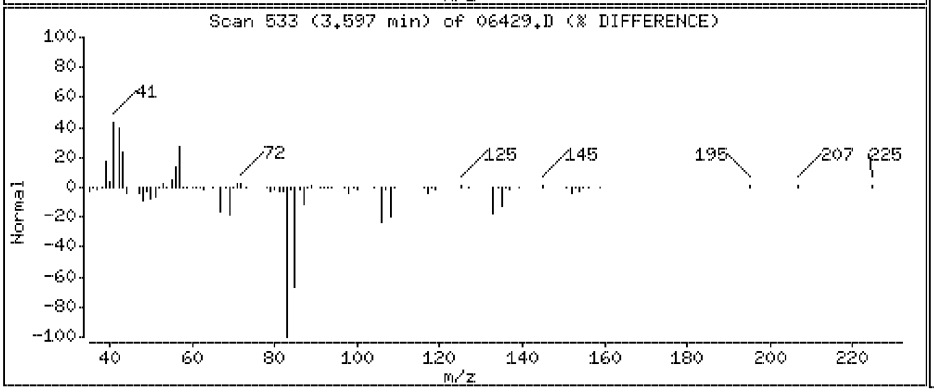
14 Isopentane

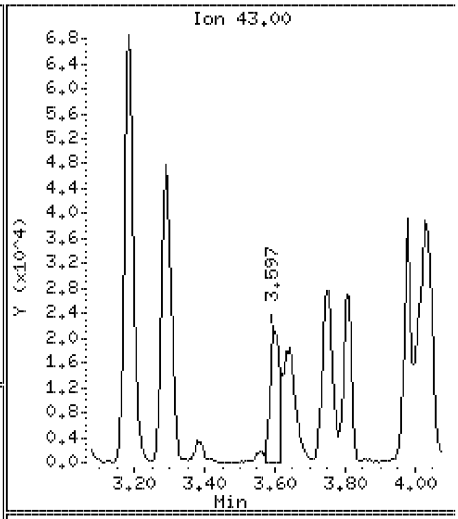
Concentration: 4.98 ppbv

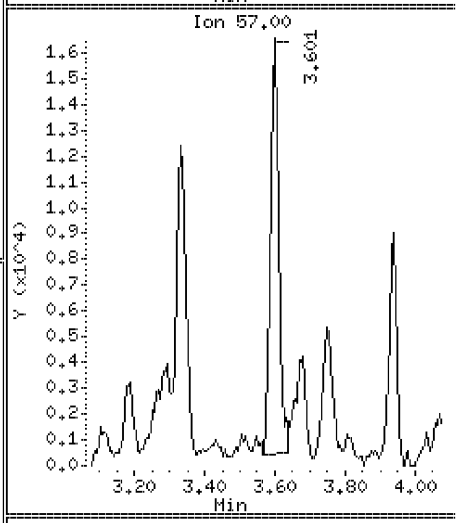


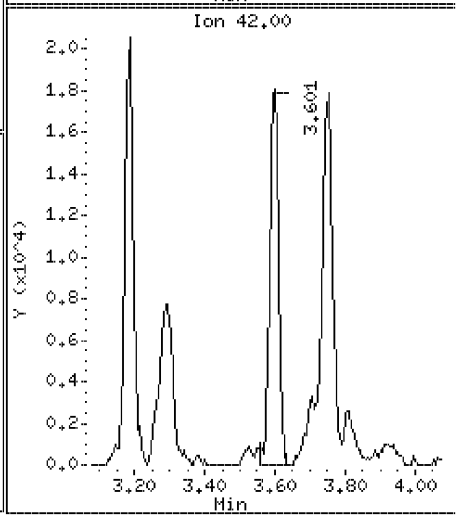












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

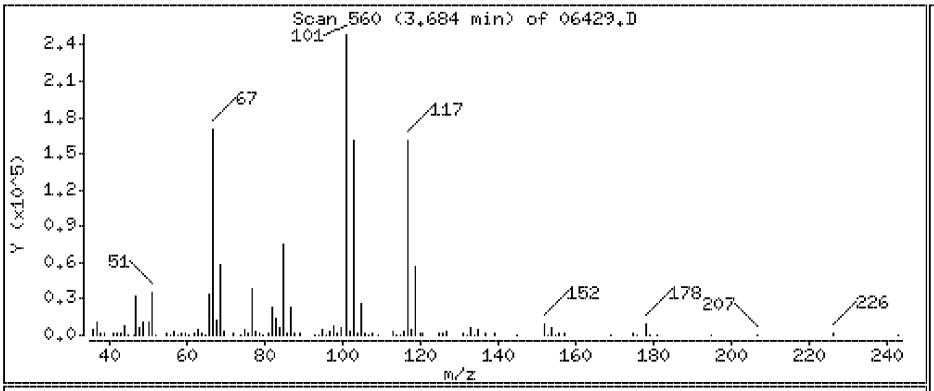
Operator: NCK

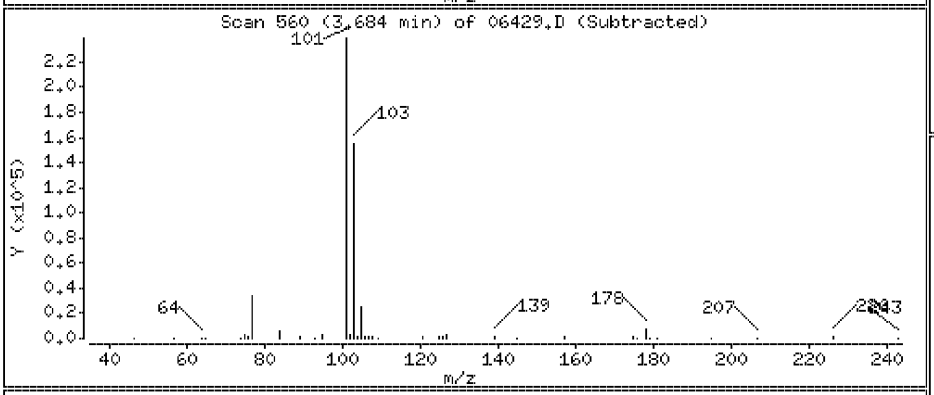
Column phase: J&W DB-5

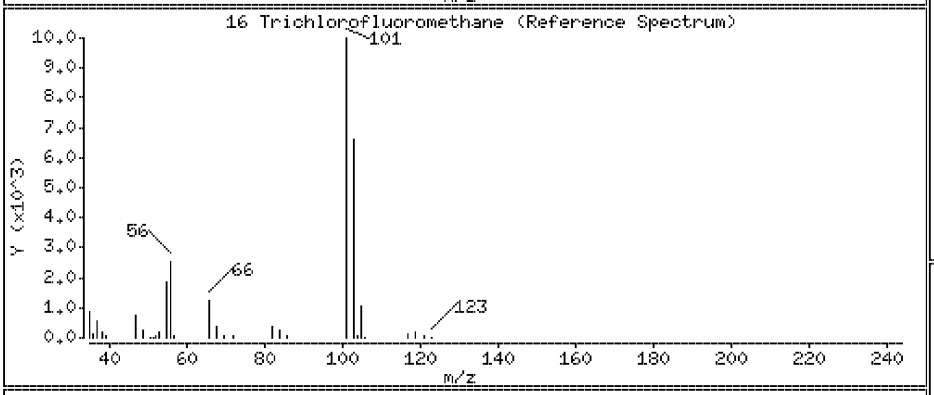
Column diameter: 0.32

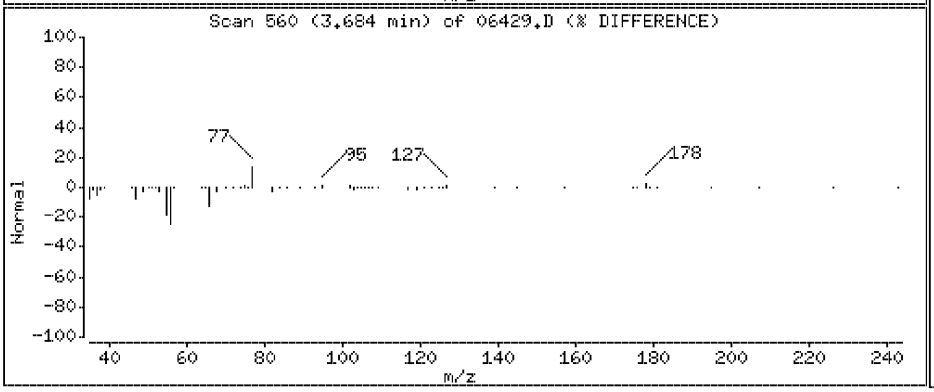
16 Trichlorofluoromethane

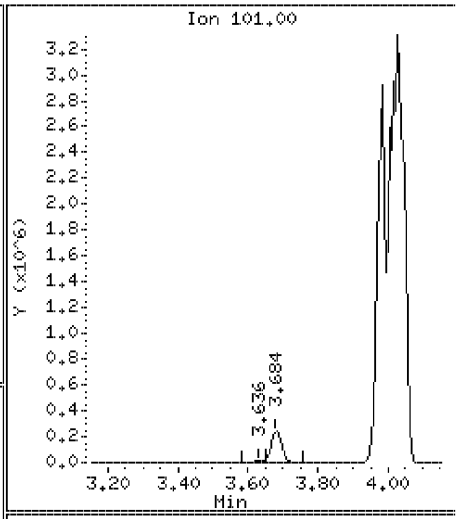
Concentration: 24.6 ppbv

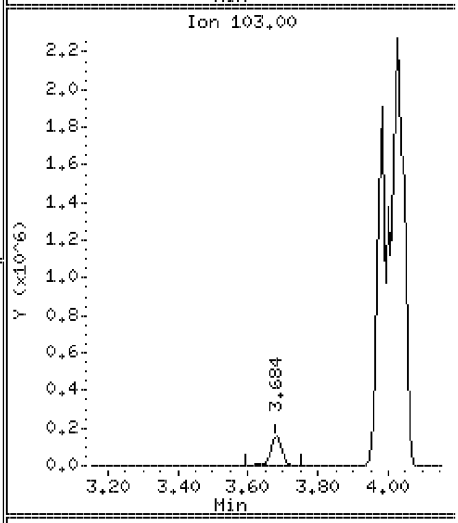


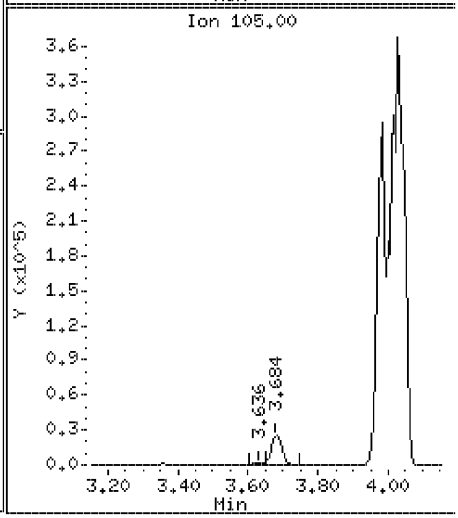












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

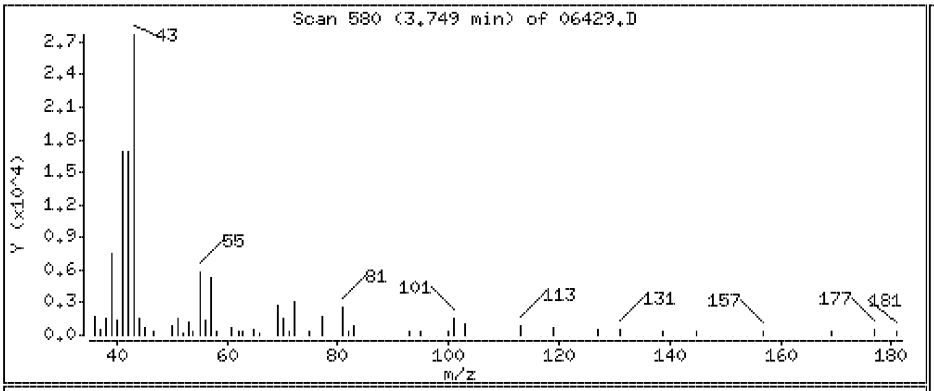
Operator: NCK

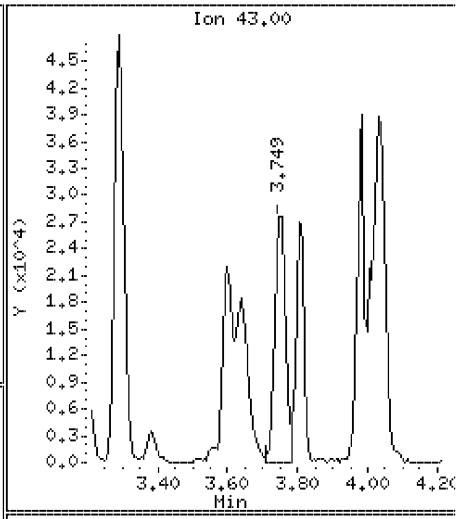
Column phase: J&W DB-5

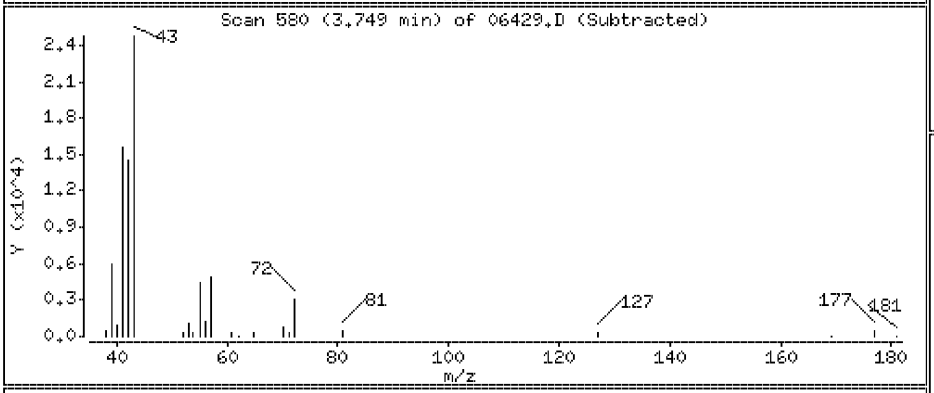
Column diameter: 0.32

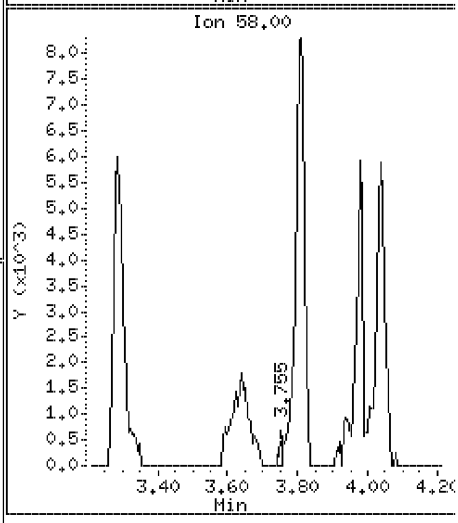
18 Acetone

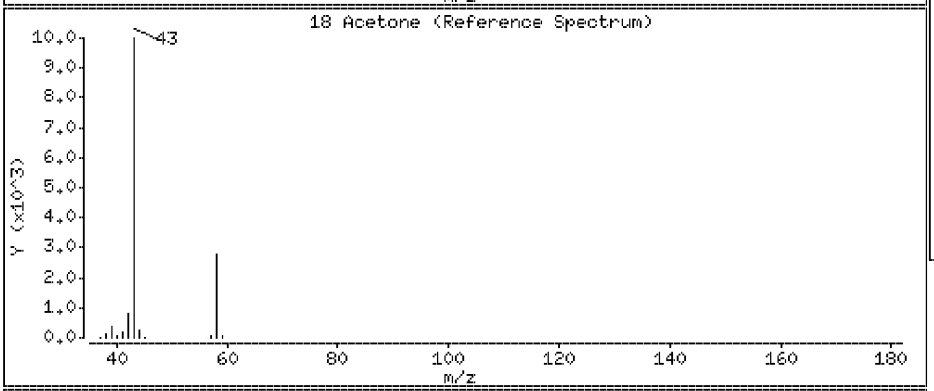
Concentration: 4.80 ppbv

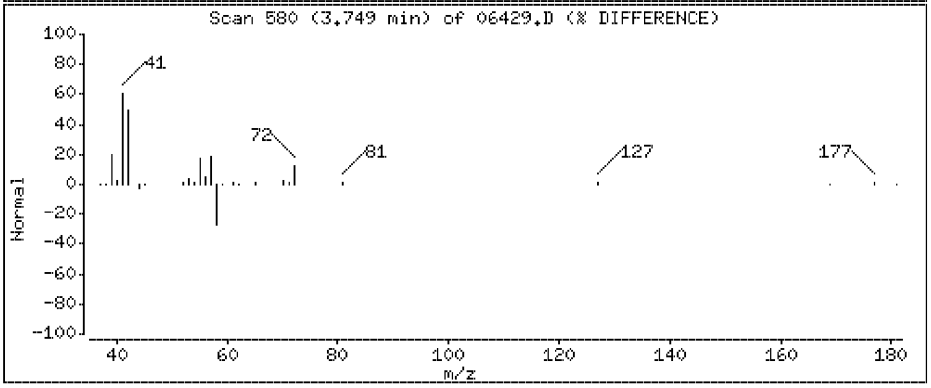












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

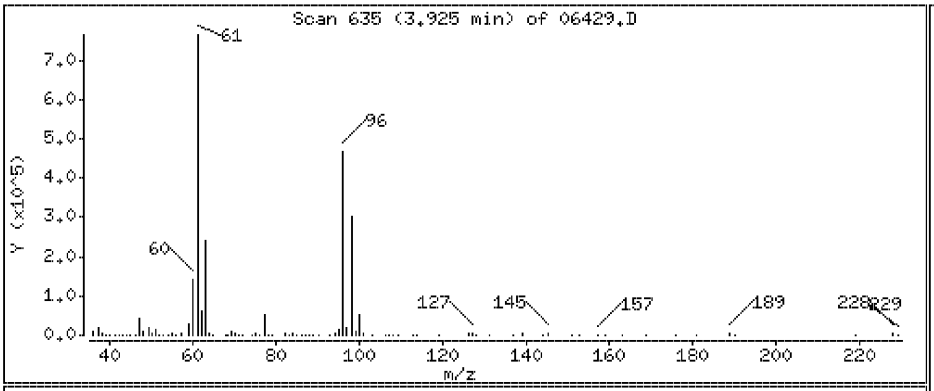
Operator: NCK

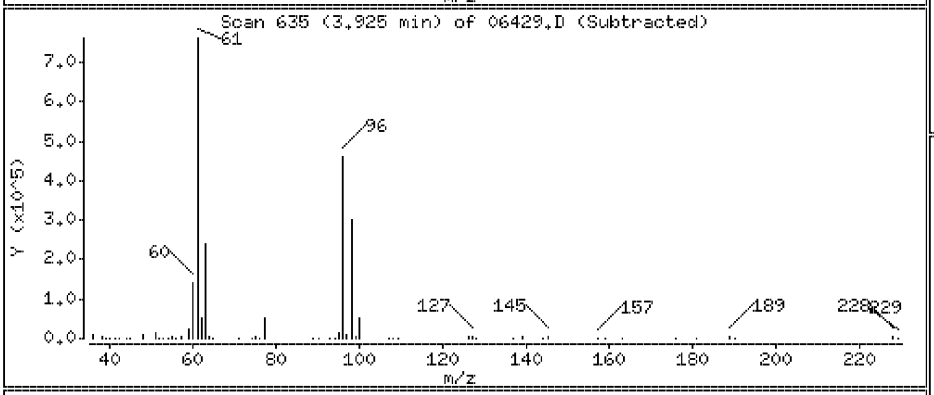
Column phase: J&W DB-5

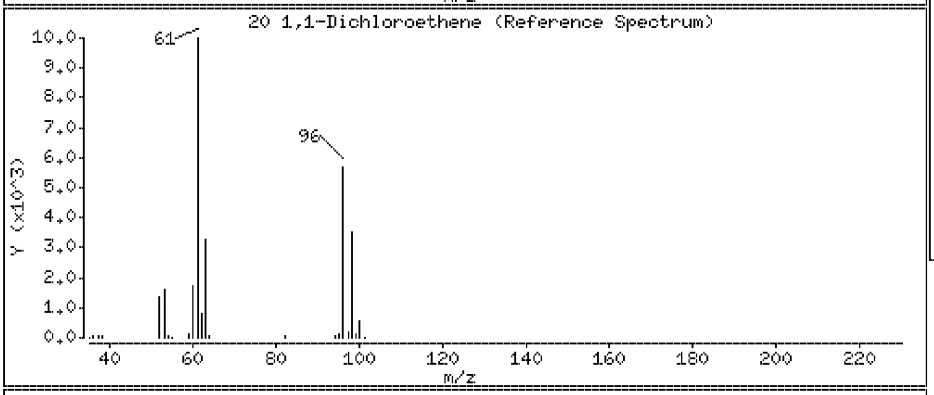
Column diameter: 0.32

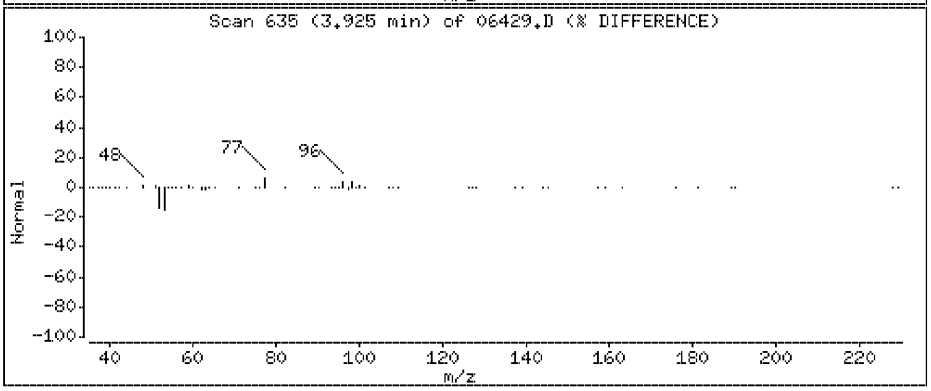
20 1,1-Dichloroethene

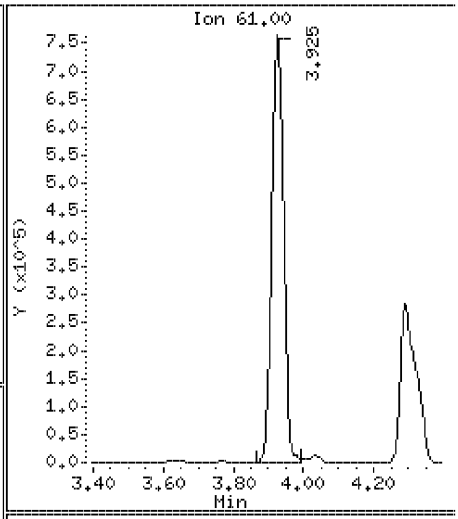
Concentration: 146 ppbv

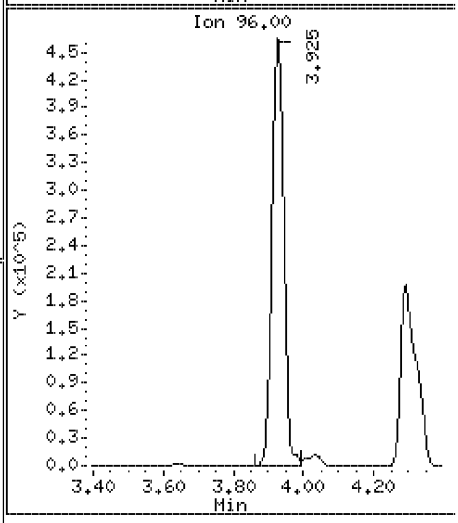












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

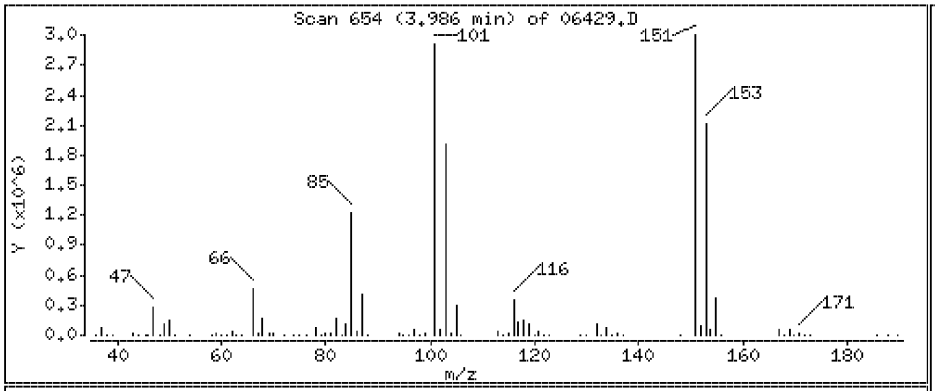
Operator: NCK

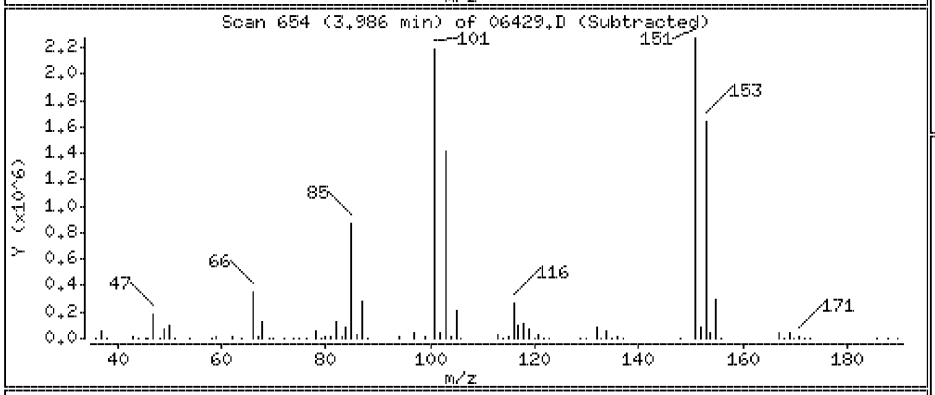
Column phase: J&W DB-5

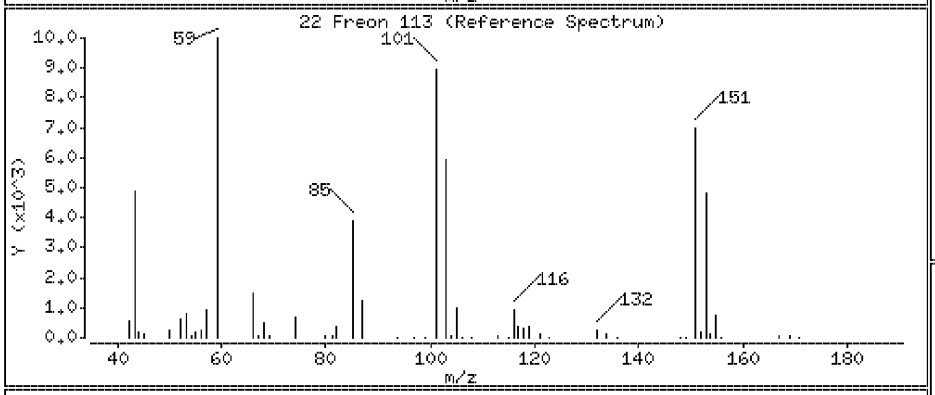
Column diameter: 0.32

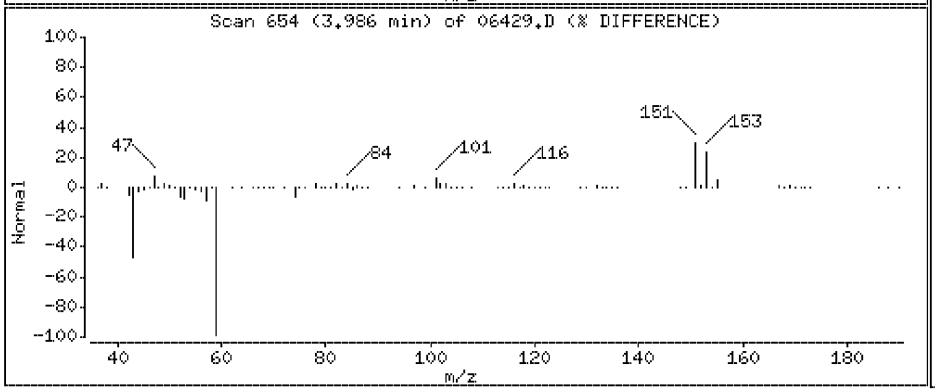
22 Freon 113

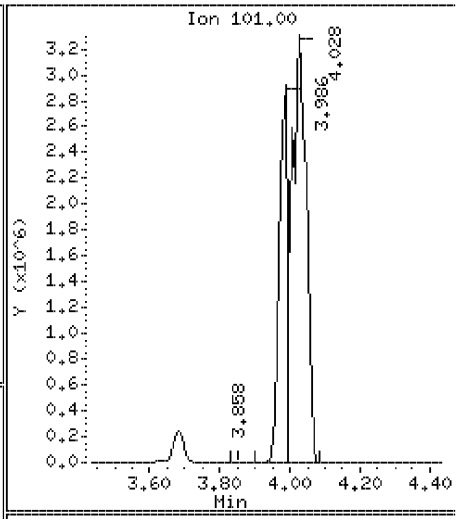
Concentration: 271 ppbv

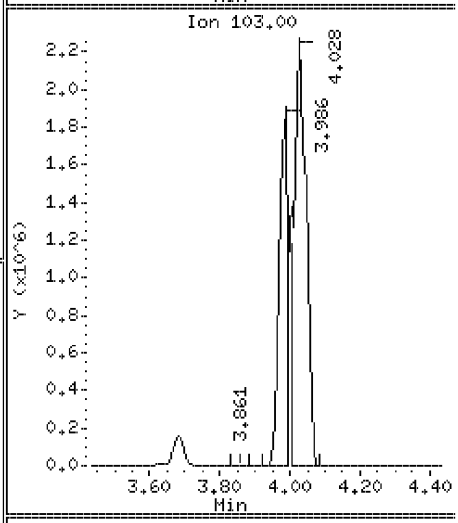


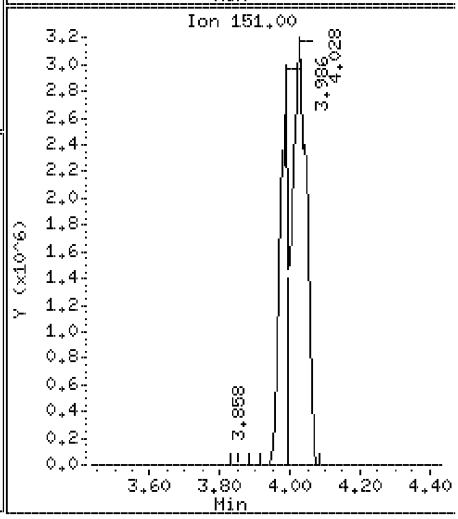












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

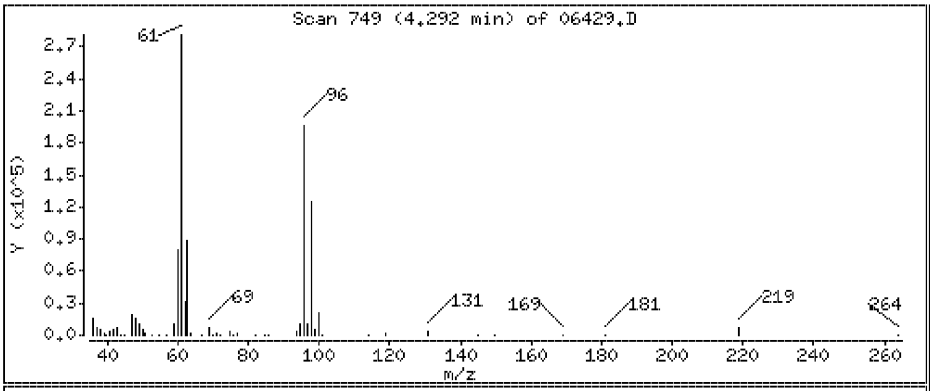
Operator: NCK

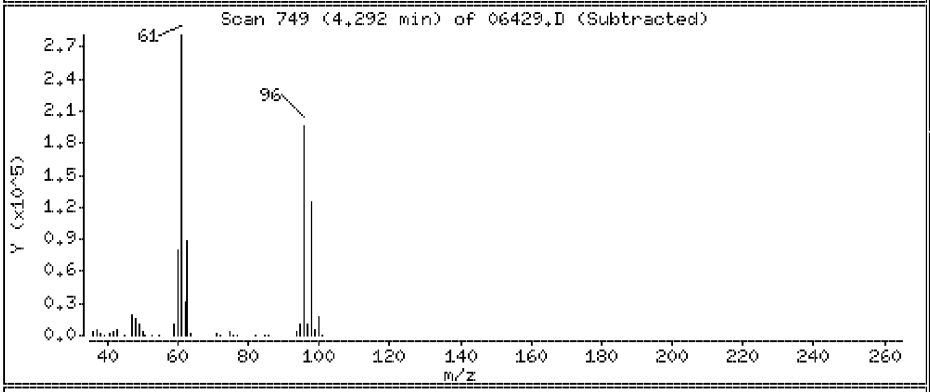
Column phase: J&W DB-5

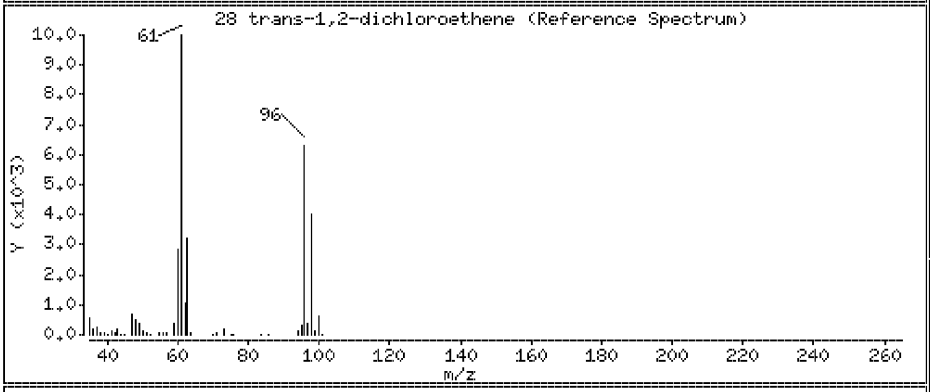
Column diameter: 0.32

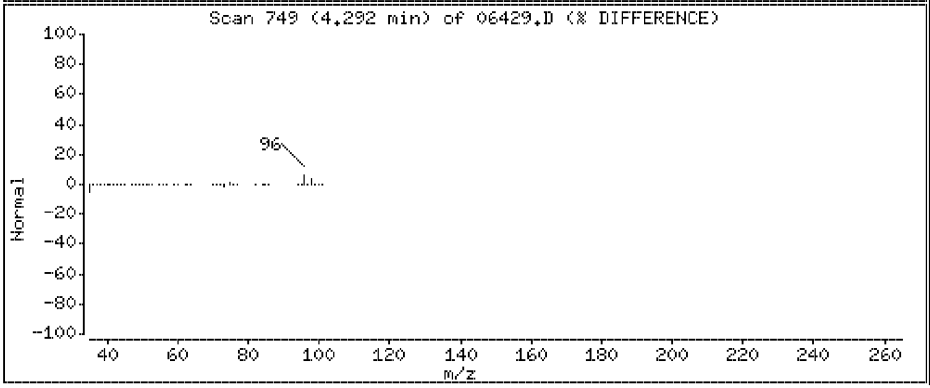
28 trans-1,2-dichloroethene

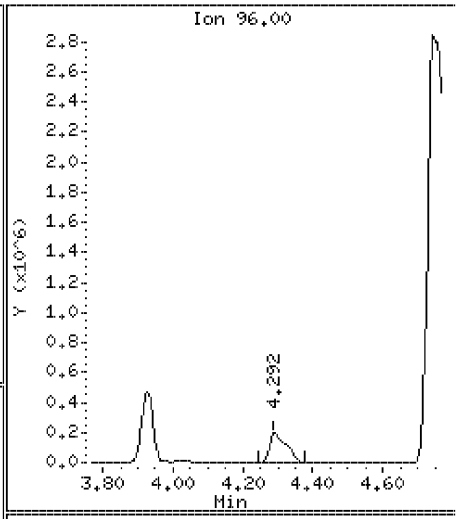
Concentration: 93.5 ppbv

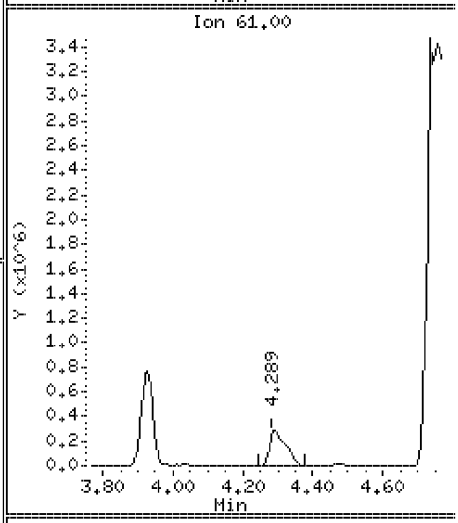


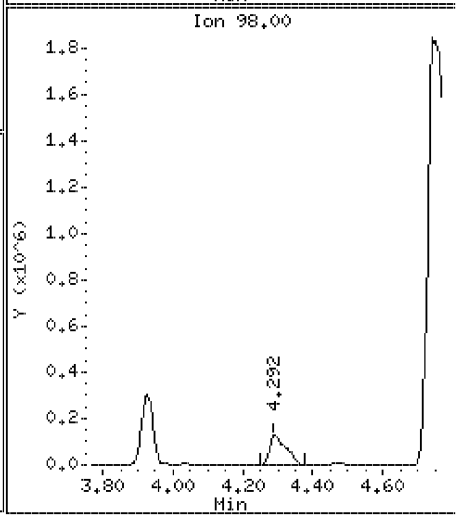












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

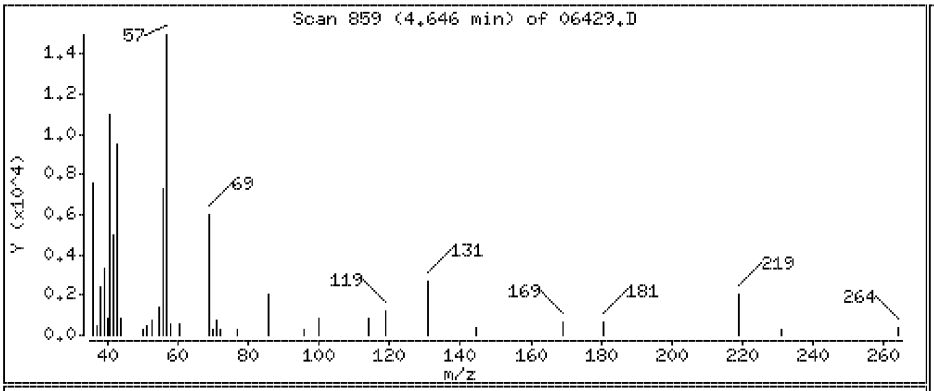
Operator: NCK

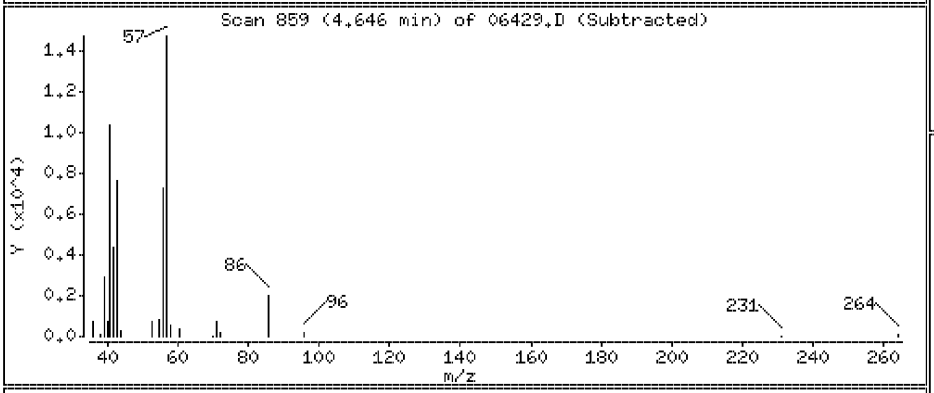
Column phase: J&W DB-5

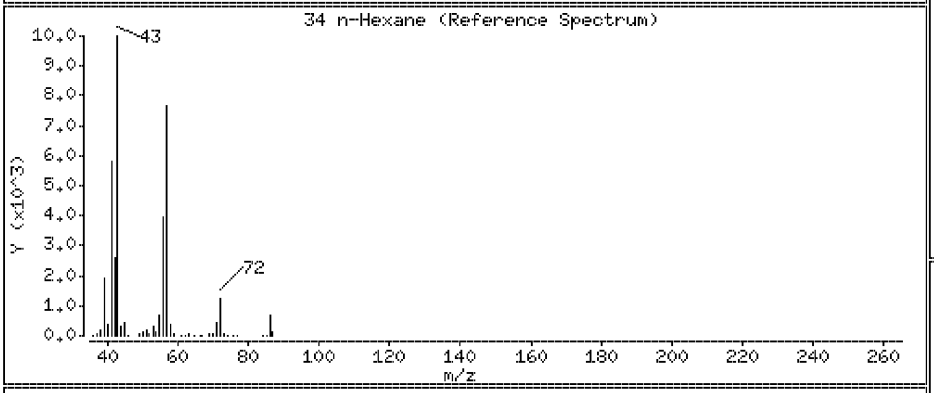
Column diameter: 0.32

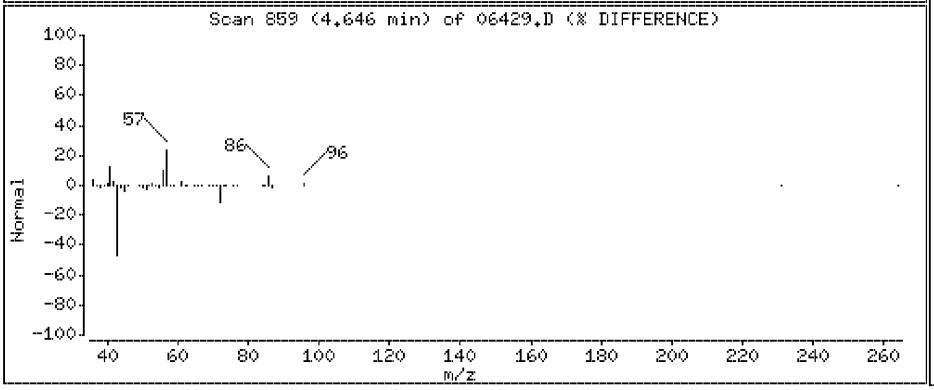
34 n-Hexane

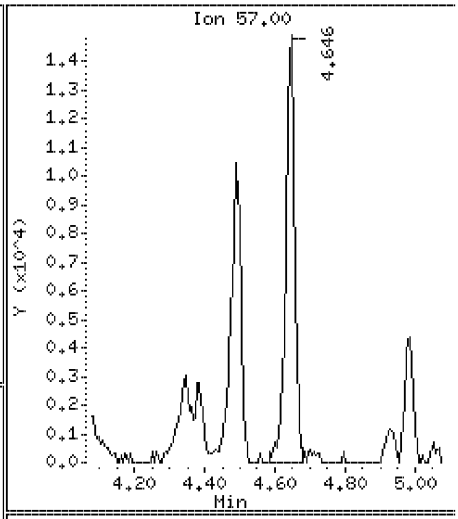
Concentration: 2.11 ppbv

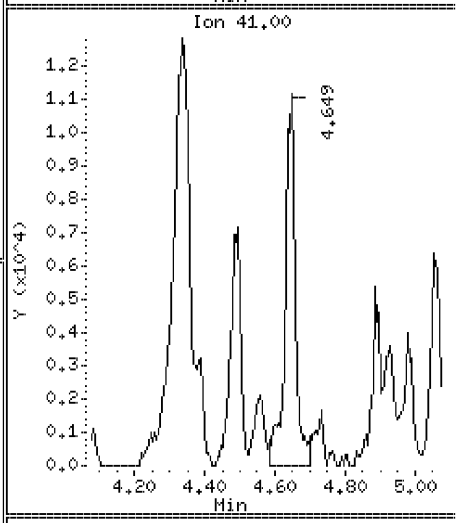


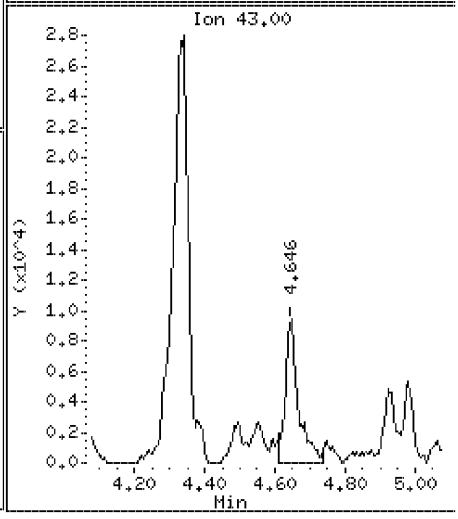












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

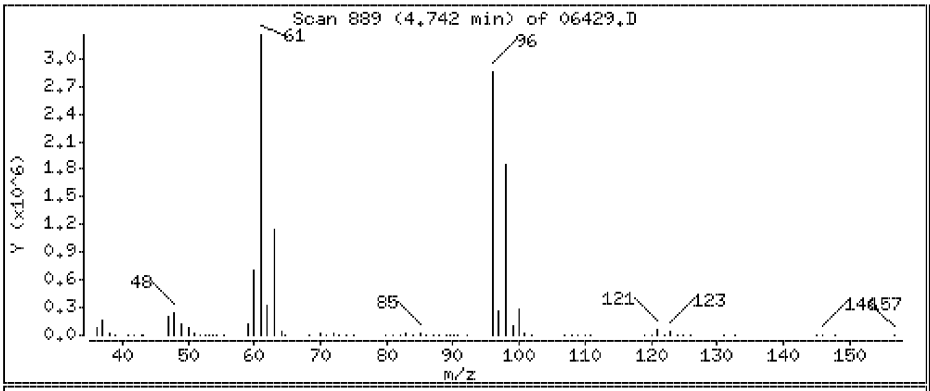
Operator: NCK

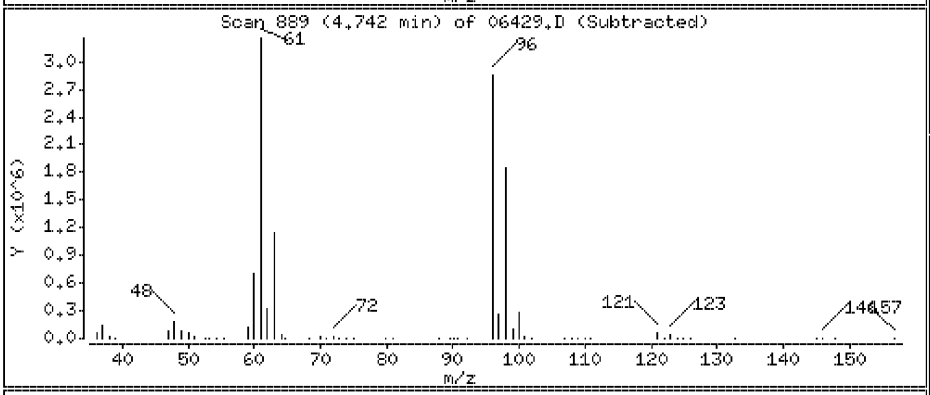
Column phase: J&W DB-5

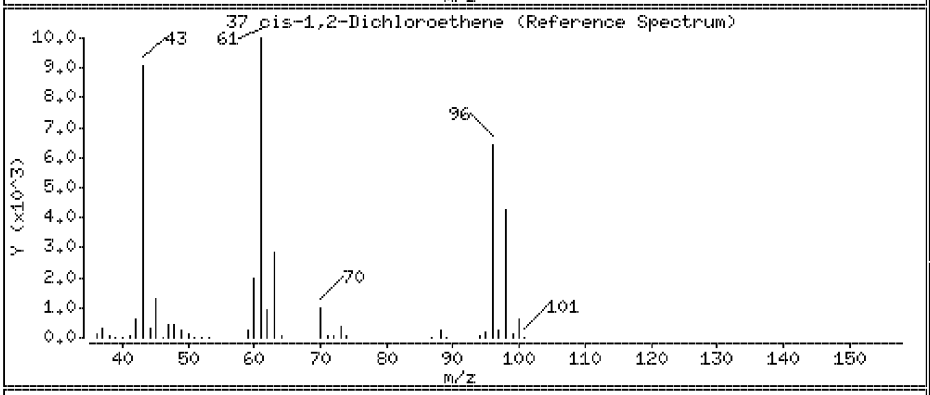
Column diameter: 0.32

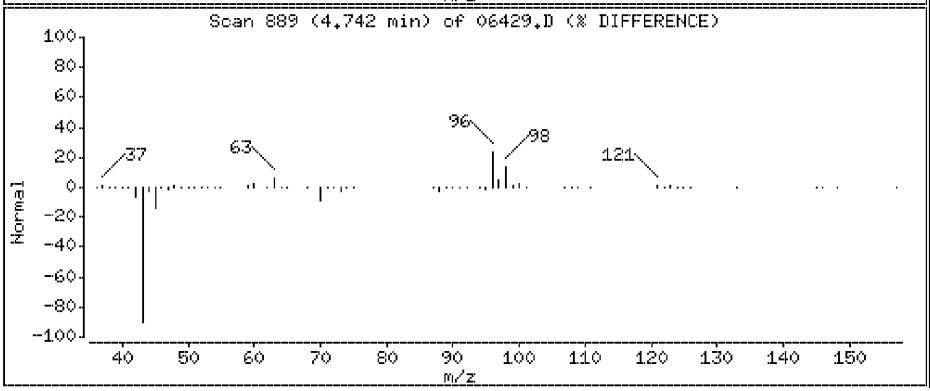
37 cis-1,2-Dichloroethene

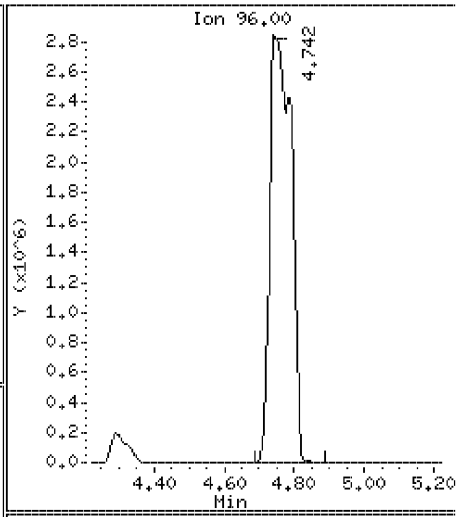
Concentration: 1610 ppbv

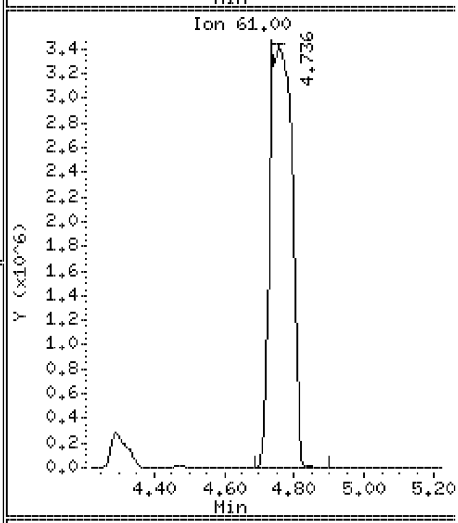


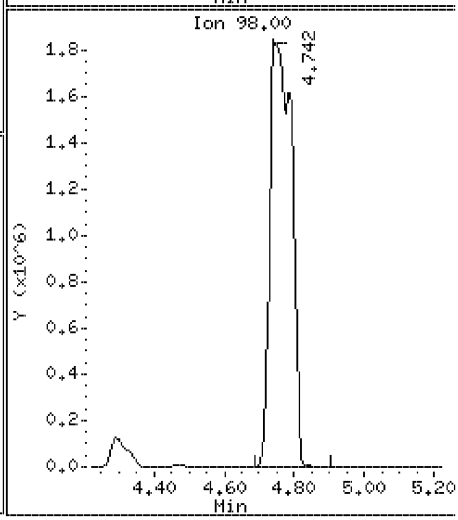












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

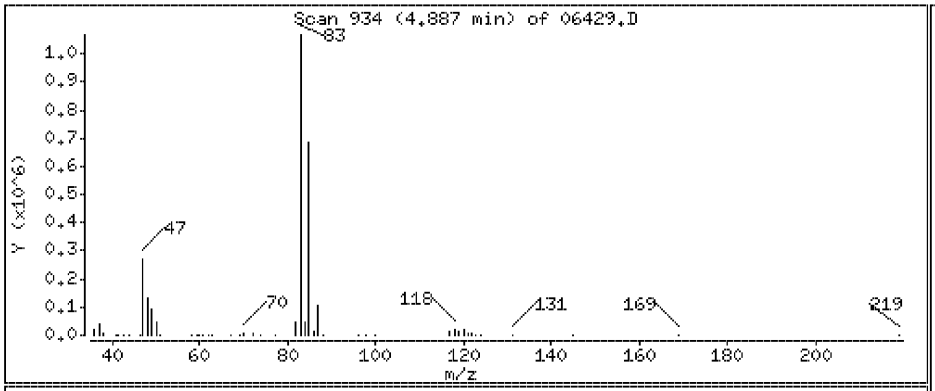
Operator: NCK

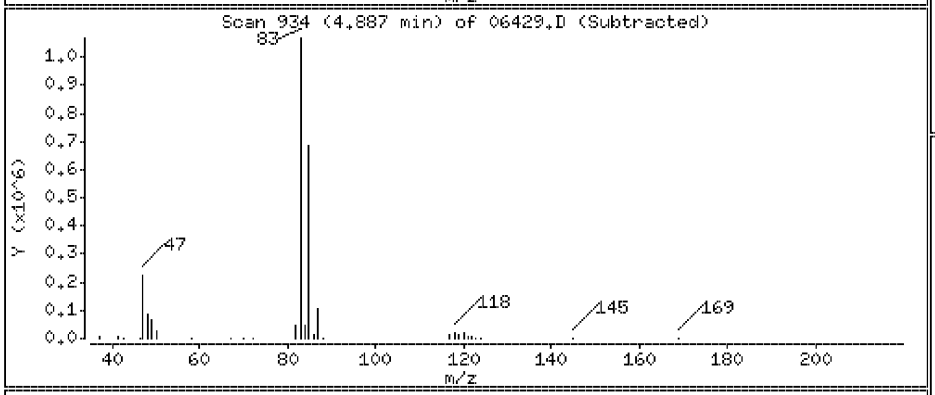
Column phase: J&W DB-5

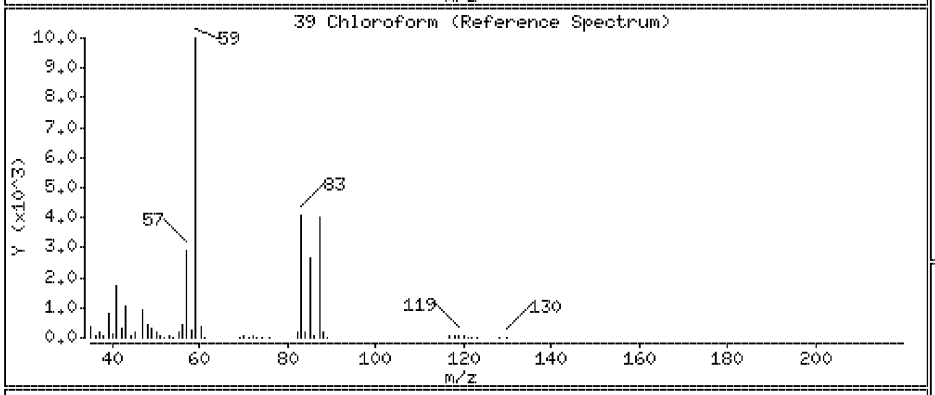
Column diameter: 0.32

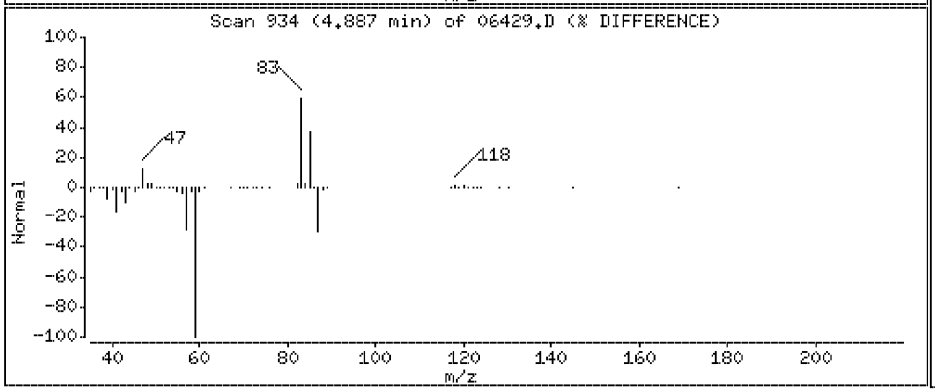
39 Chloroform

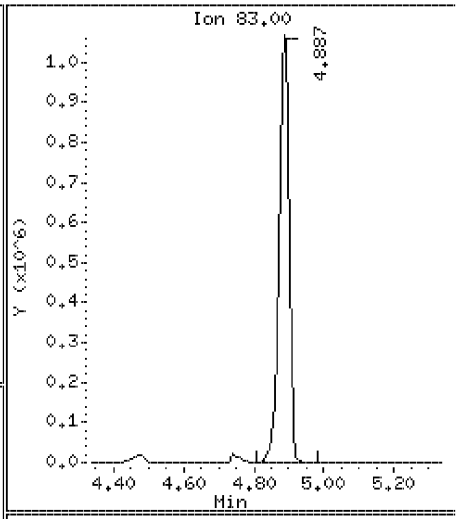
Concentration: 131 ppbv

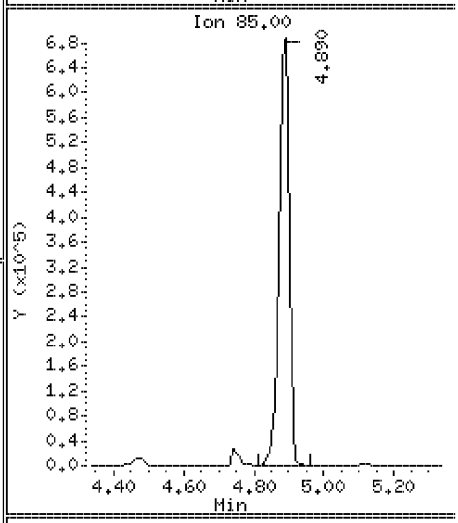


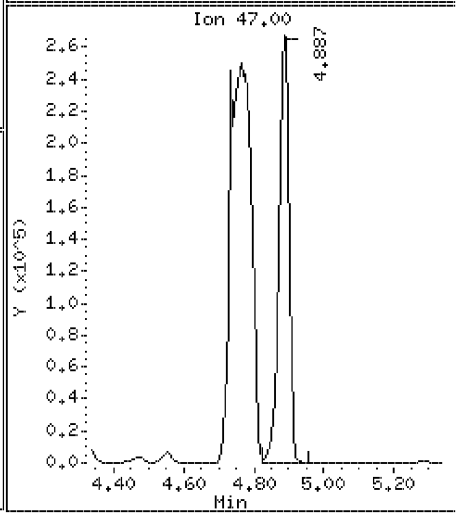












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

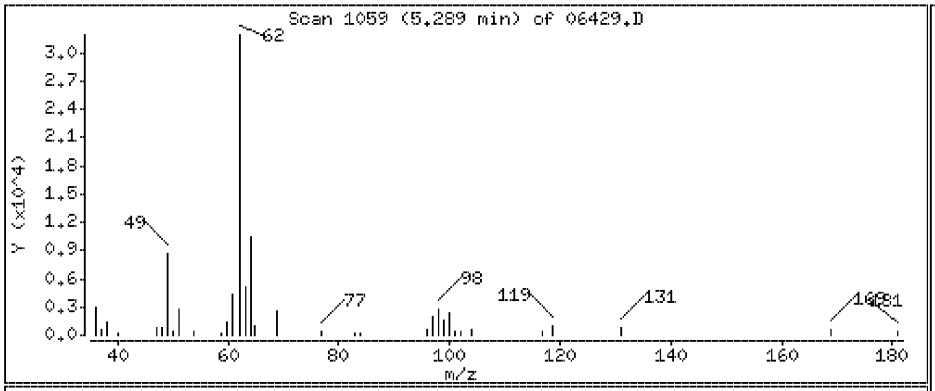
Operator: NCK

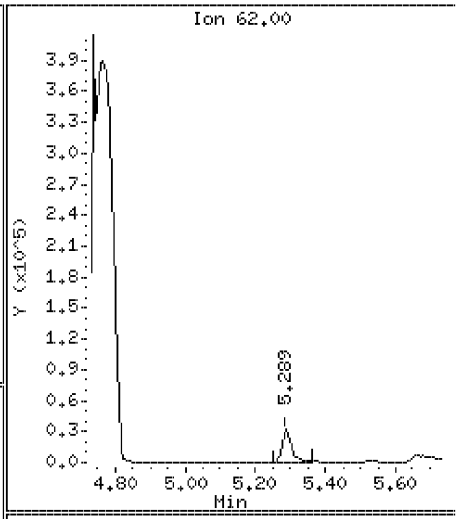
Column phase: J&W DB-5

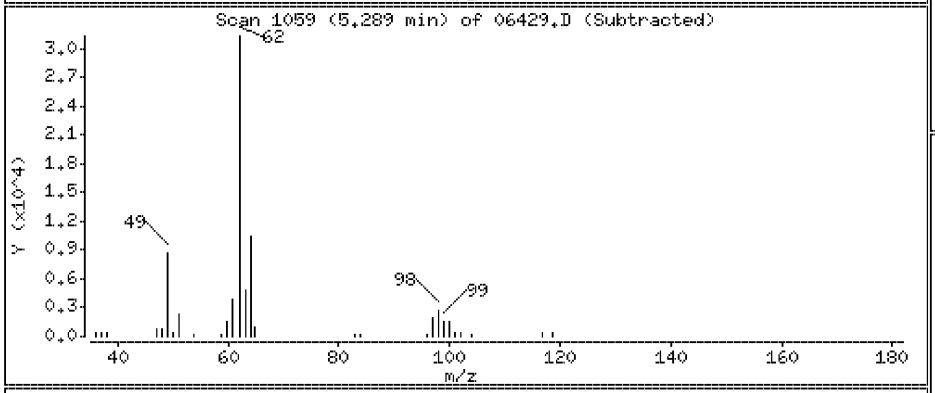
Column diameter: 0.32

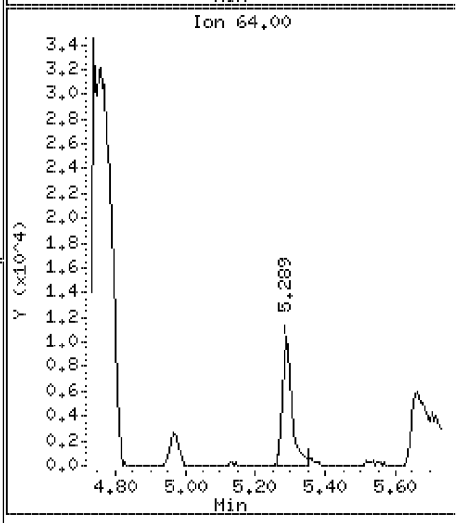
42 1,2-Dichloroethane

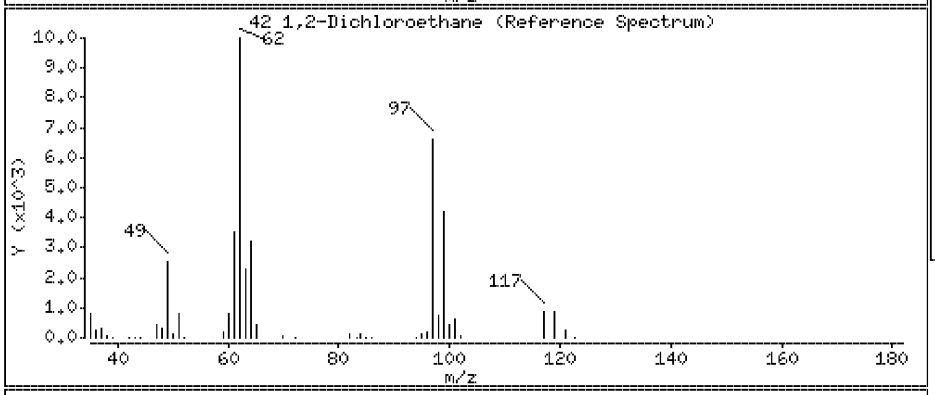
Concentration: 4.26 ppbv

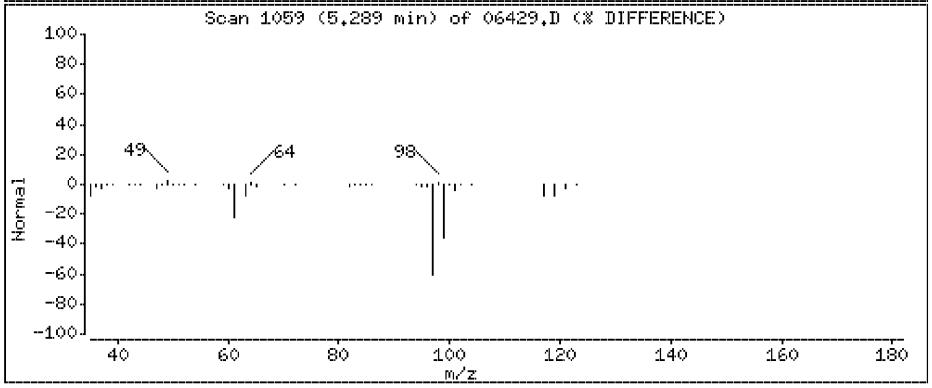












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

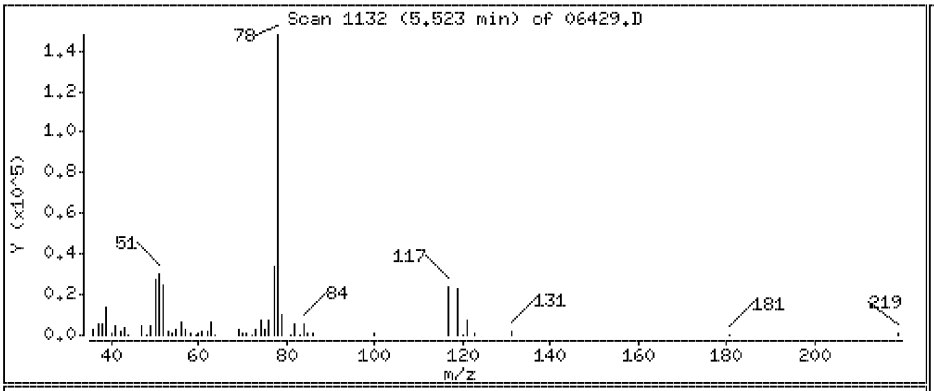
Operator: NCK

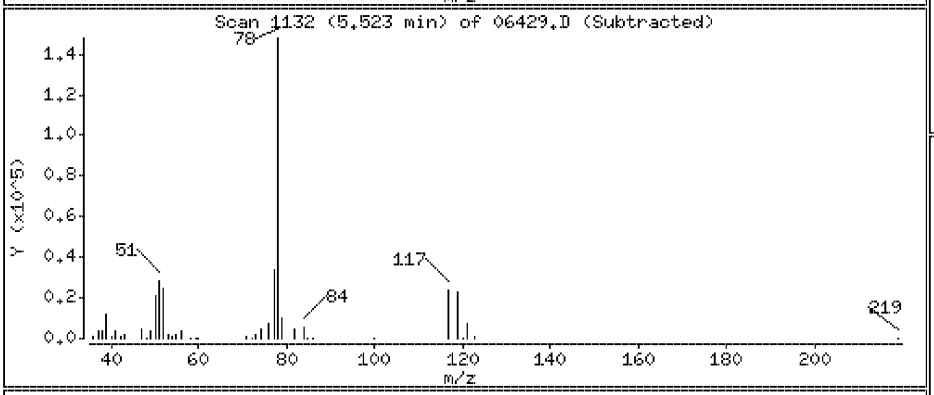
Column phase: J&W DB-5

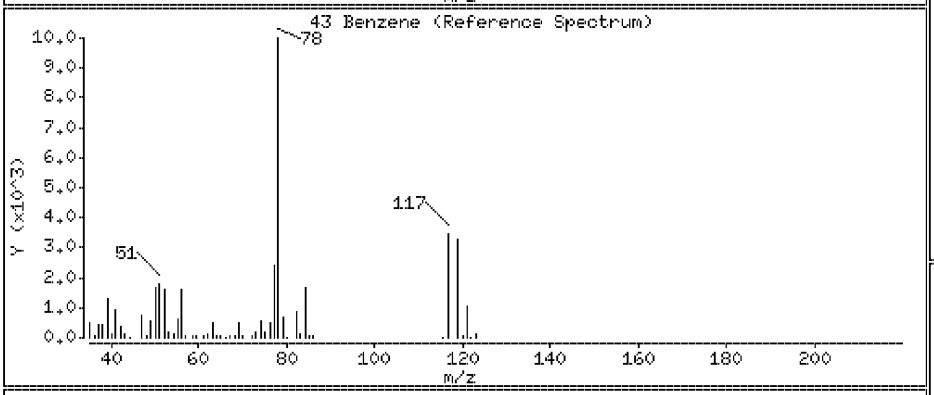
Column diameter: 0.32

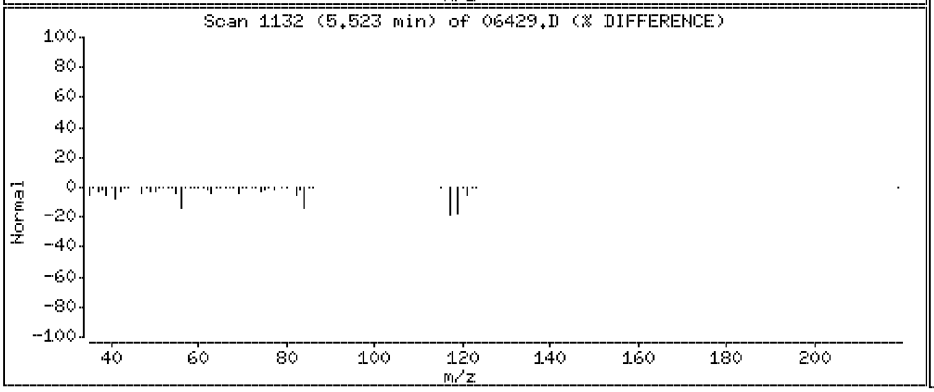
43 Benzene

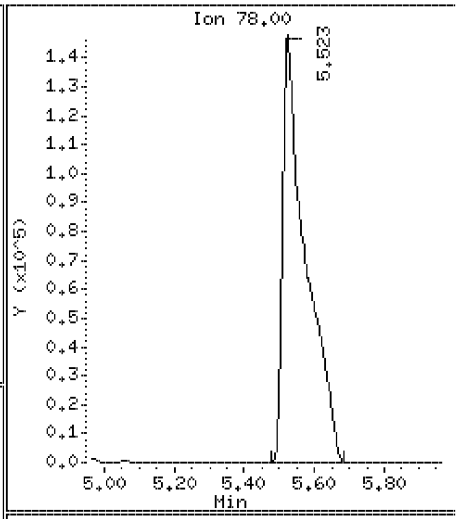
Concentration: 28.0 ppbv

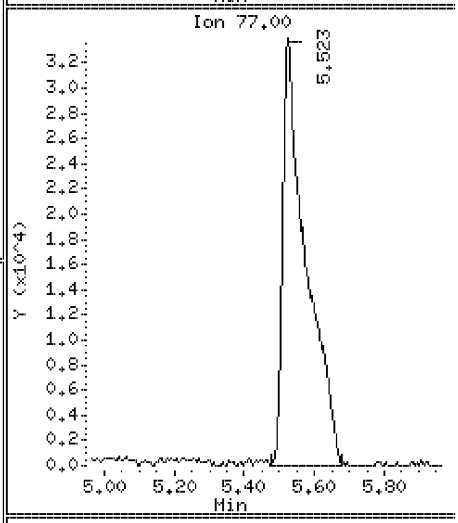


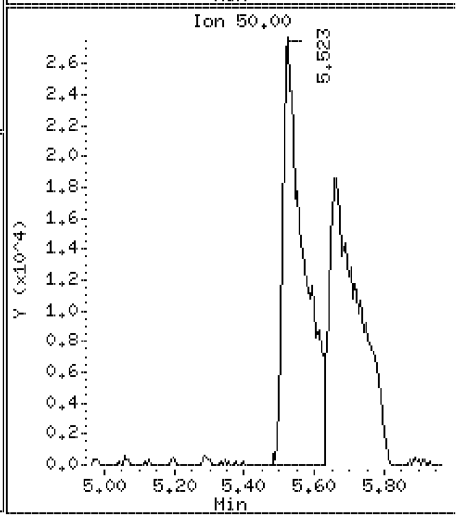












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

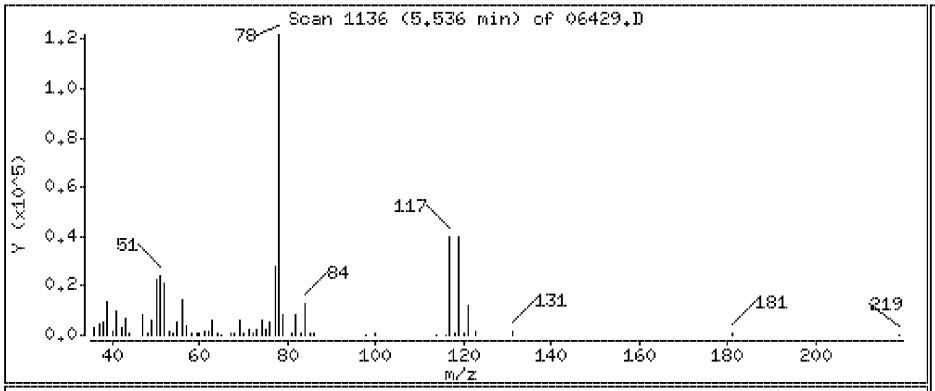
Operator: NCK

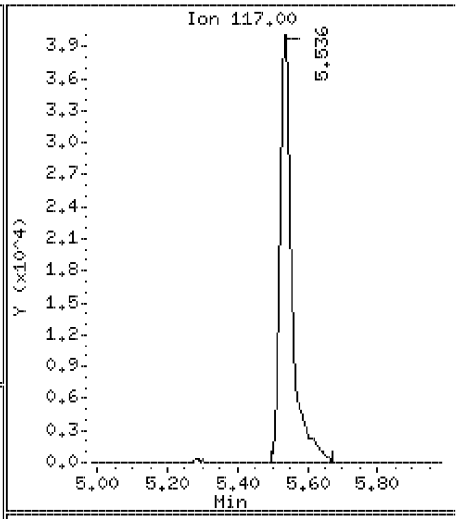
Column phase: J&W DB-5

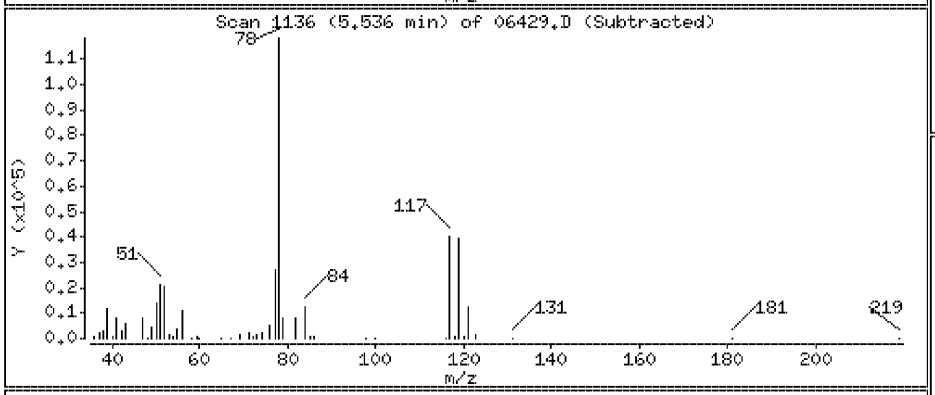
Column diameter: 0.32

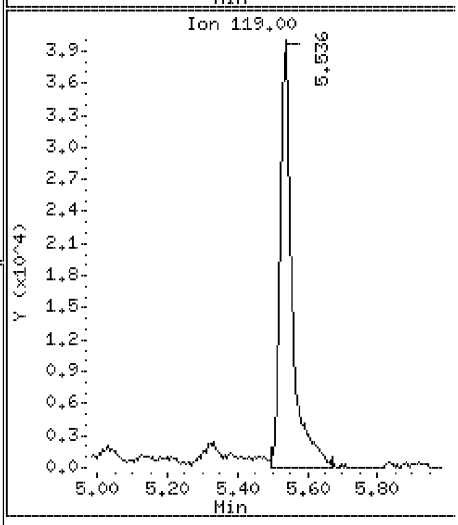
44 Carbon tetrachloride

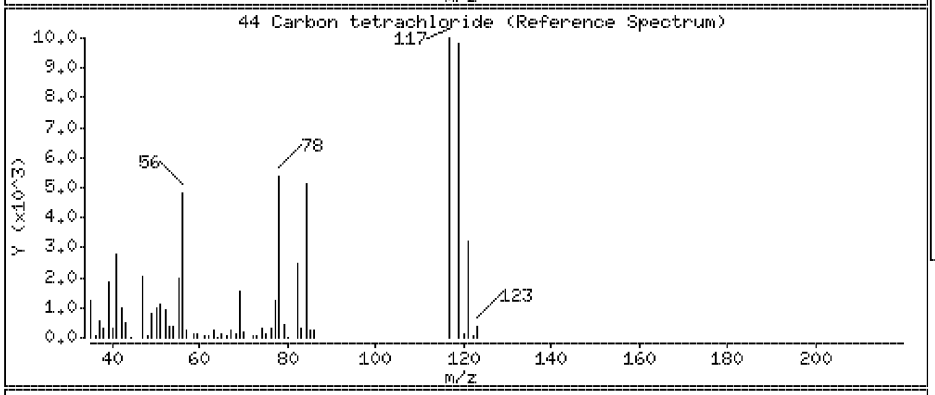
Concentration: 5.07 ppbv

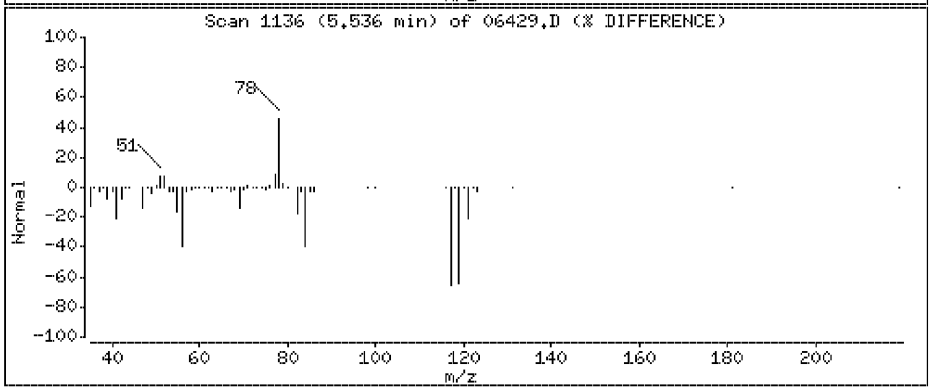












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

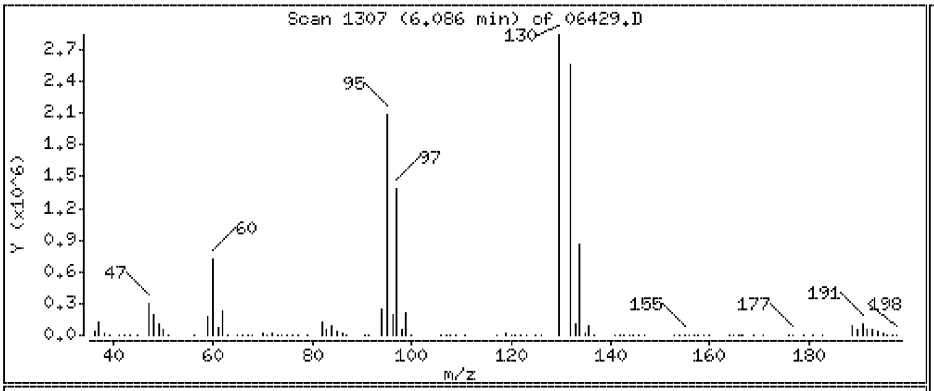
Operator: NCK

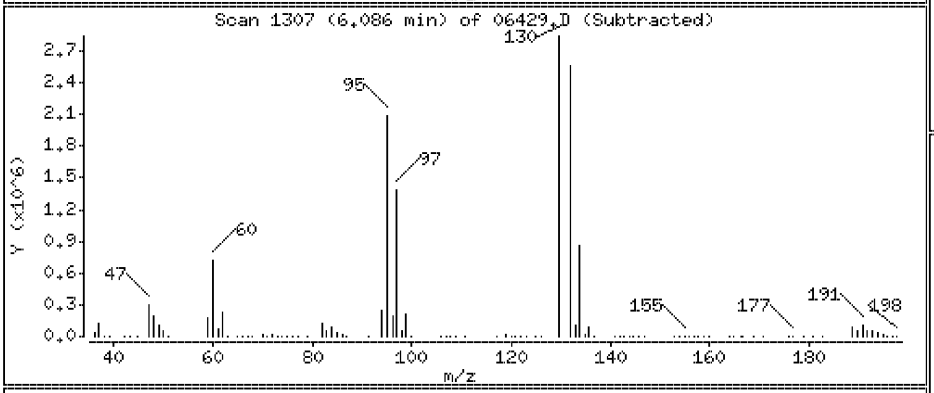
Column phase: J&W DB-5

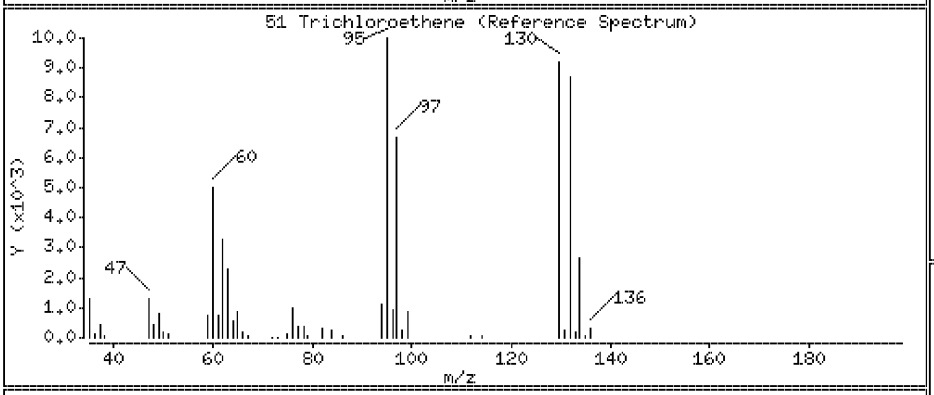
Column diameter: 0.32

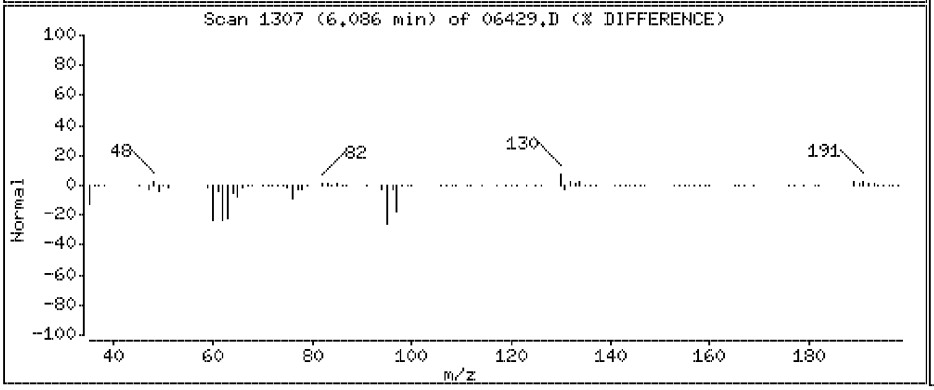
51 Trichloroethene

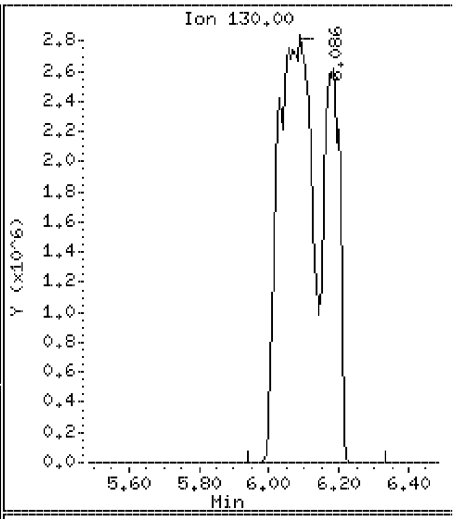
Concentration: 2130 ppbv

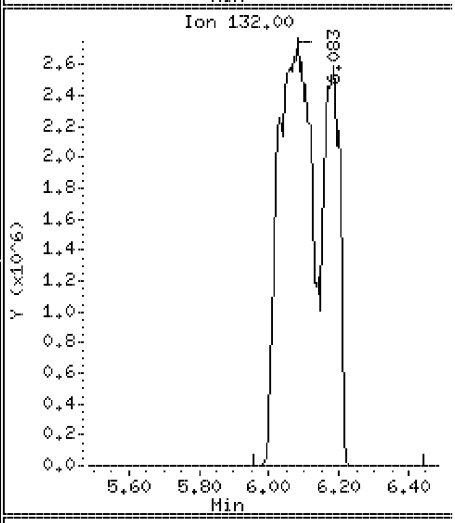


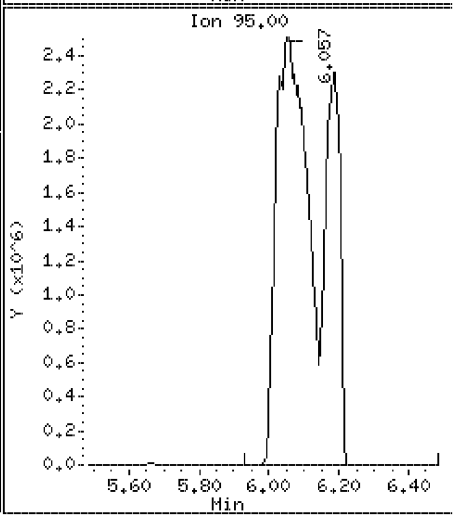












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

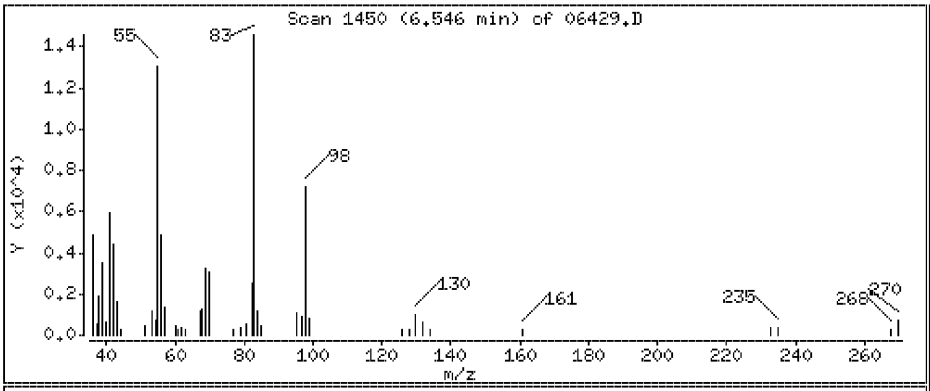
Operator: NCK

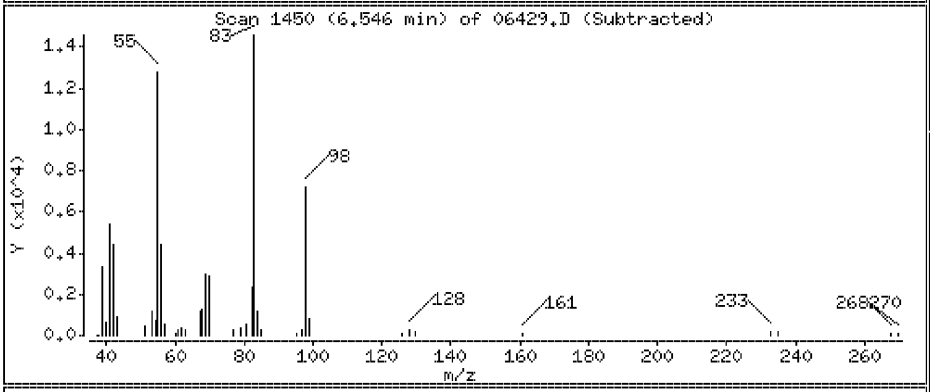
Column phase: J&W DB-5

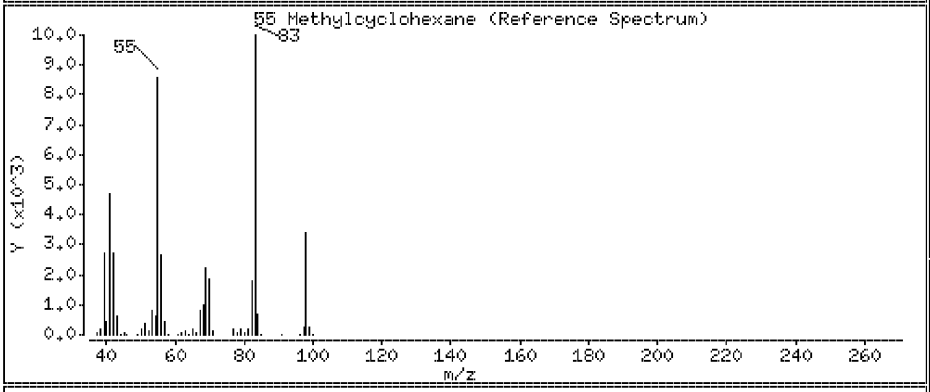
Column diameter: 0.32

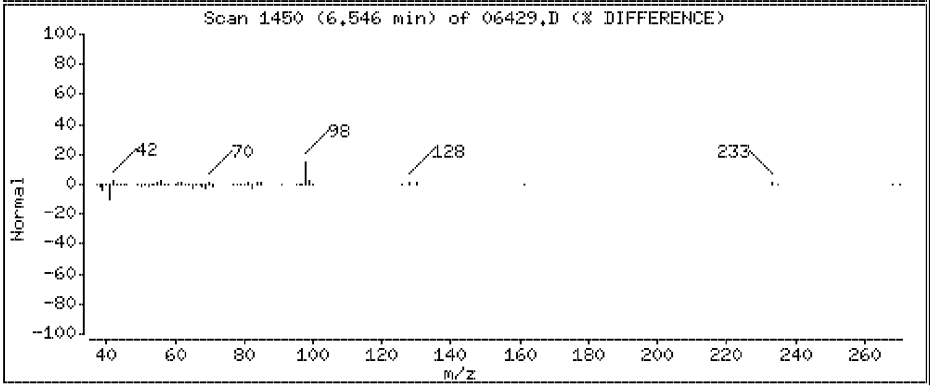
55 Methylcyclohexane

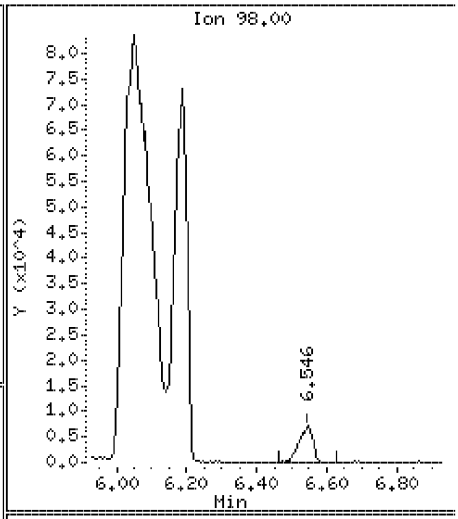
Concentration: 2.90 ppbv

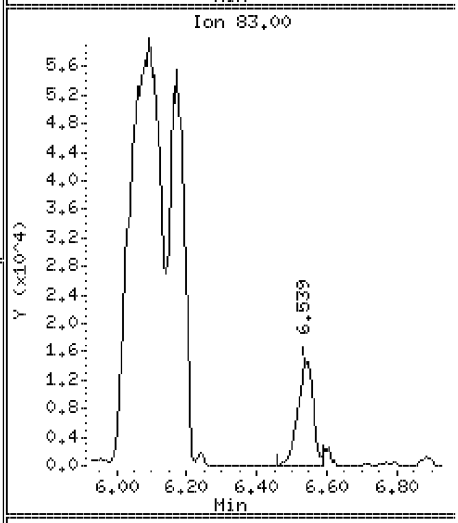


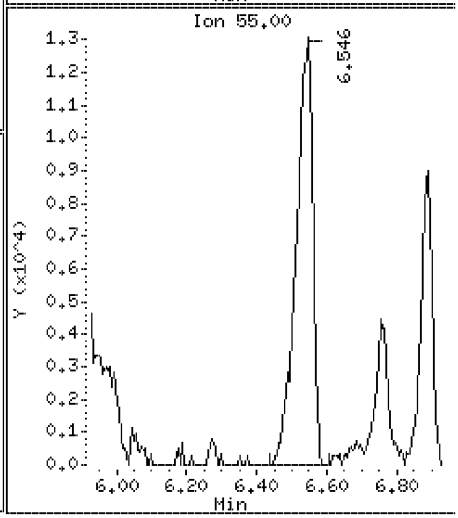












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

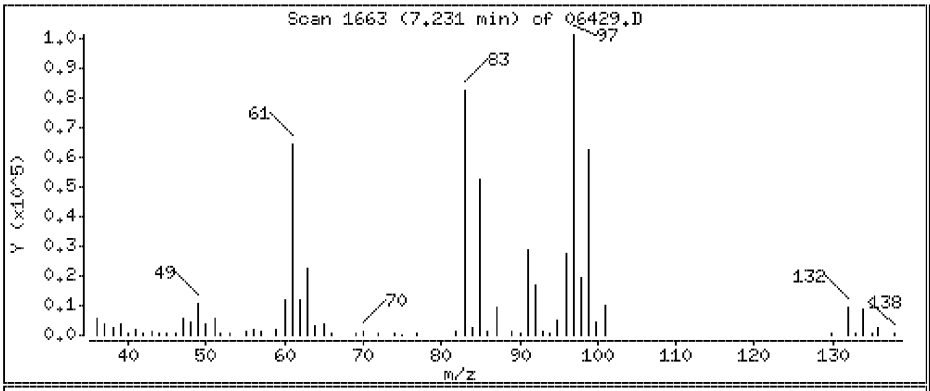
Operator: NCK

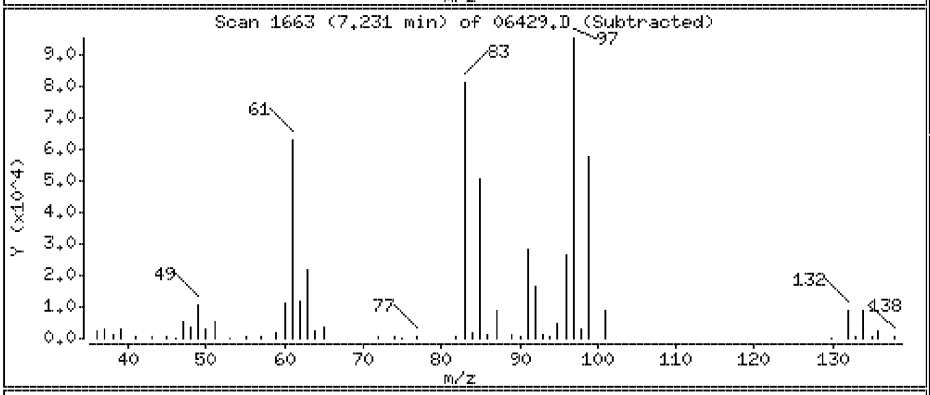
Column phase: J&W DB-5

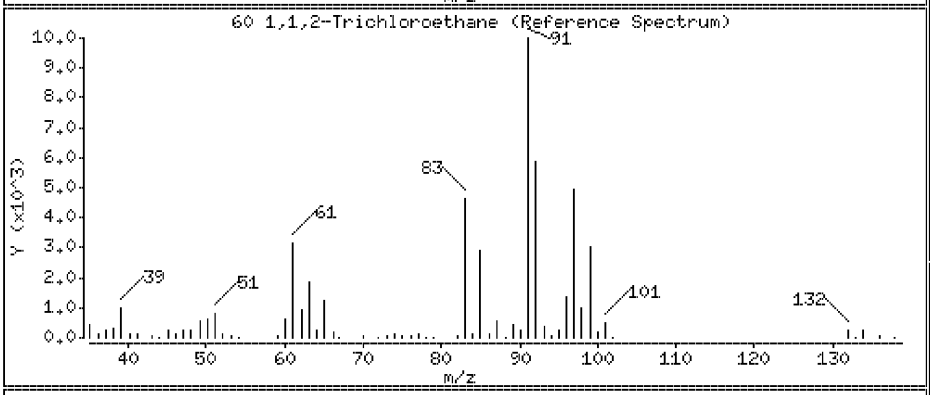
Column diameter: 0.32

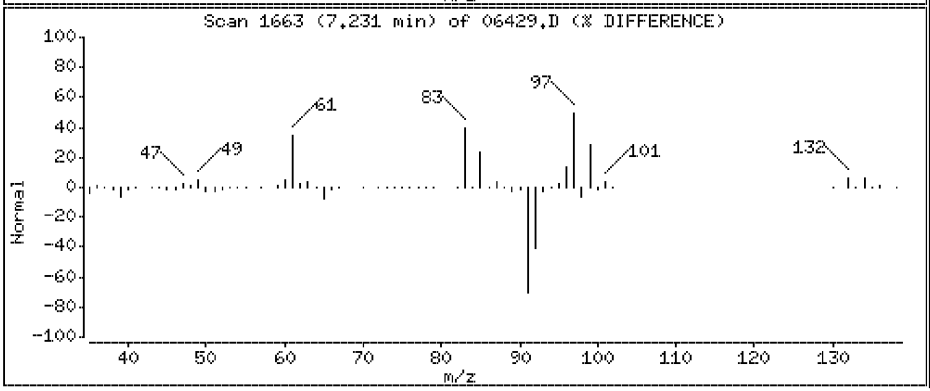
60 1,1,2-Trichloroethane

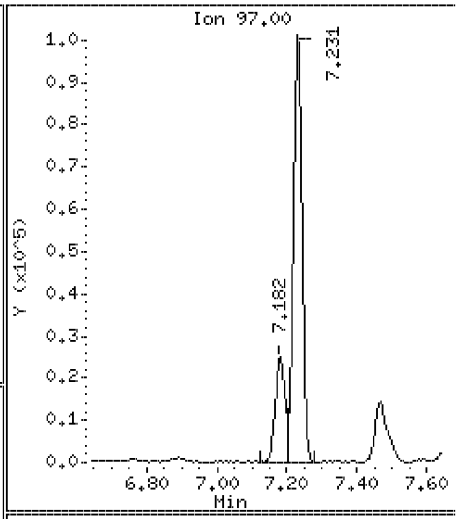
Concentration: 17.0 ppbv

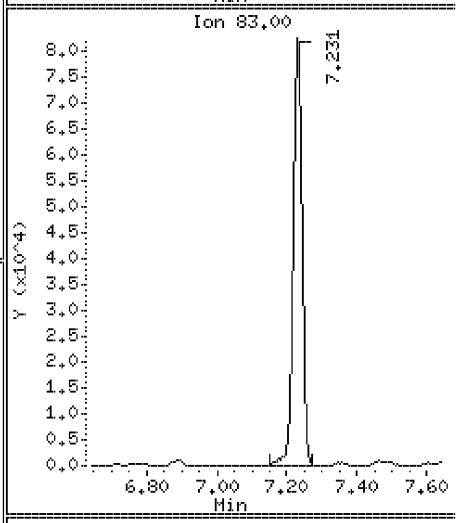


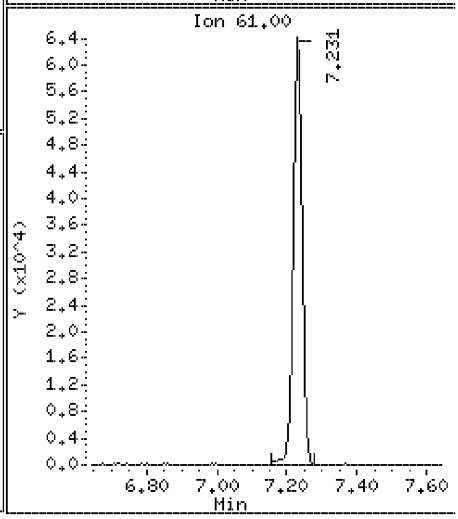












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

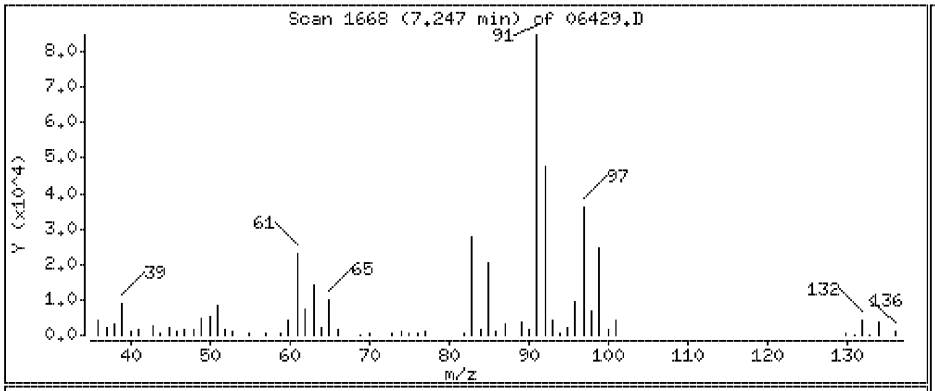
Operator: NCK

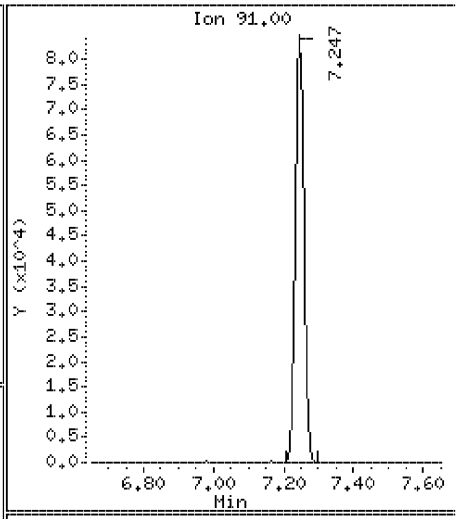
Column phase: J&W DB-5

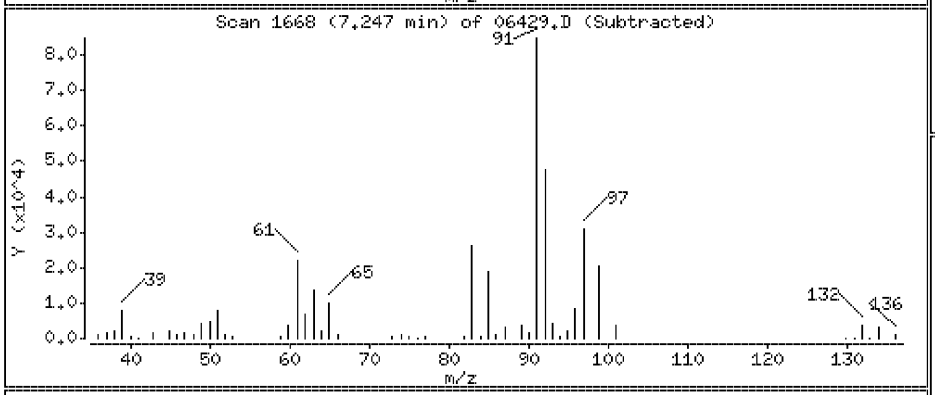
Column diameter: 0.32

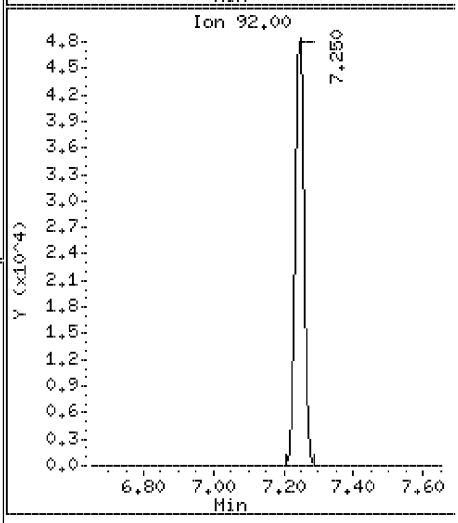
61 Toluene

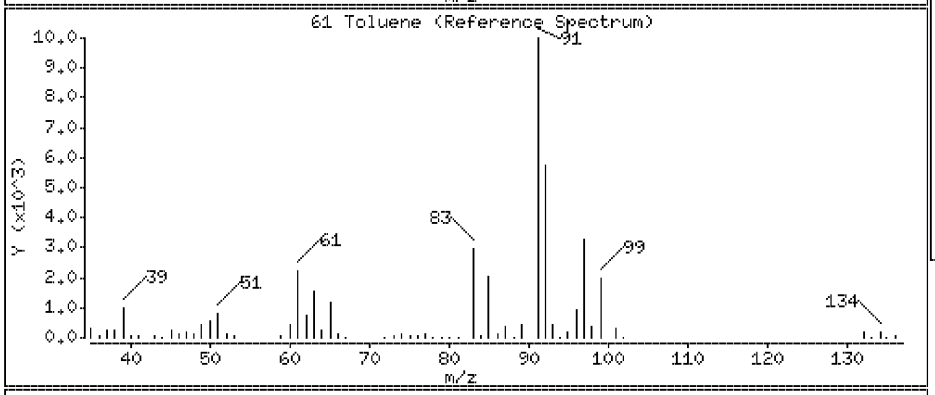
Concentration: 4.66 ppbv

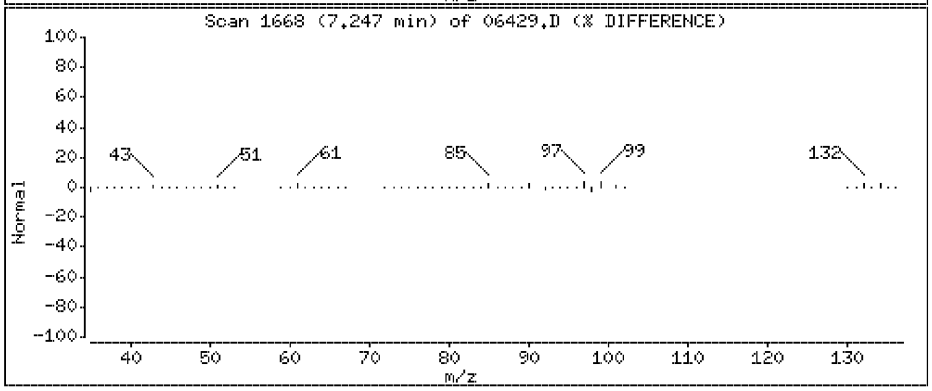












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

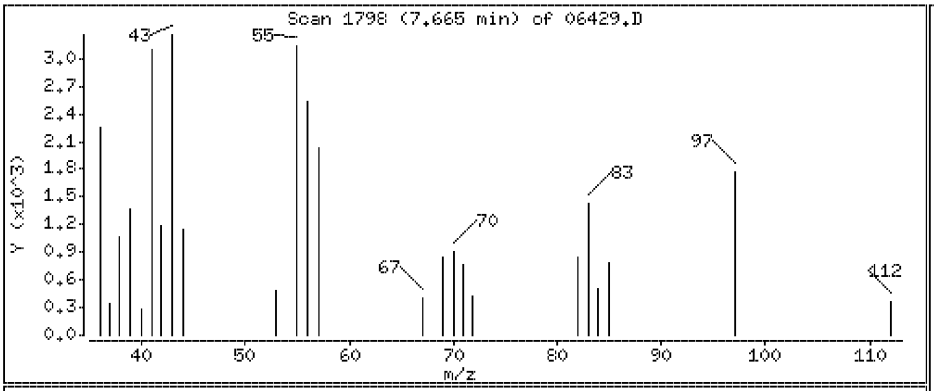
Operator: NCK

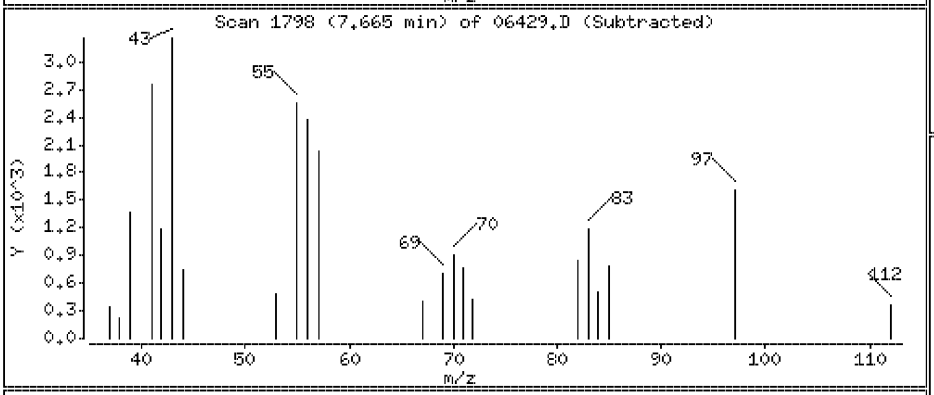
Column phase: J&W DB-5

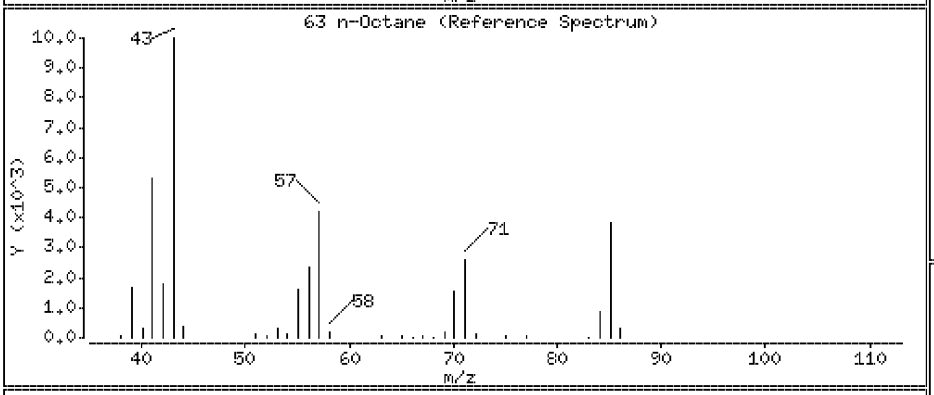
Column diameter: 0.32

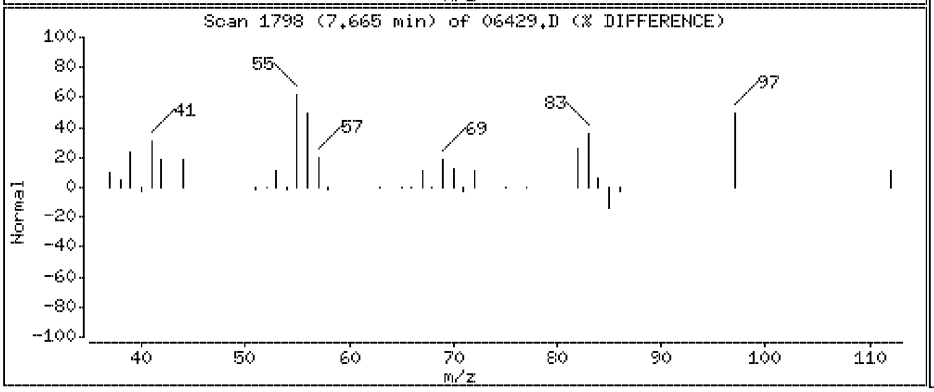
63 n-Octane

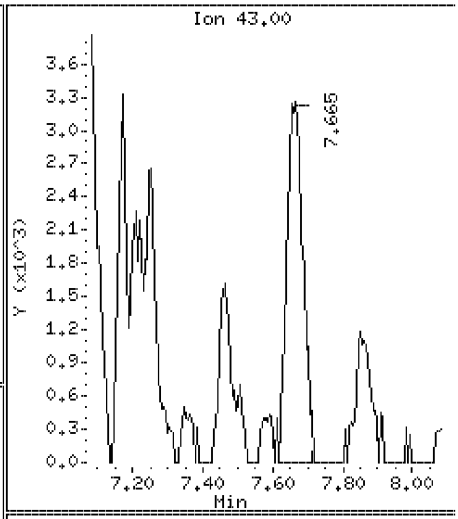
Concentration: 0.608 ppbv

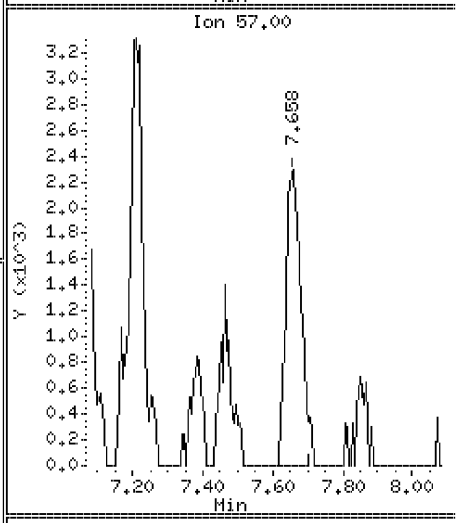


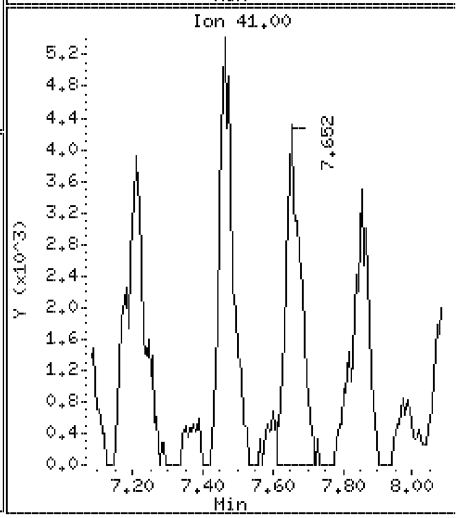












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

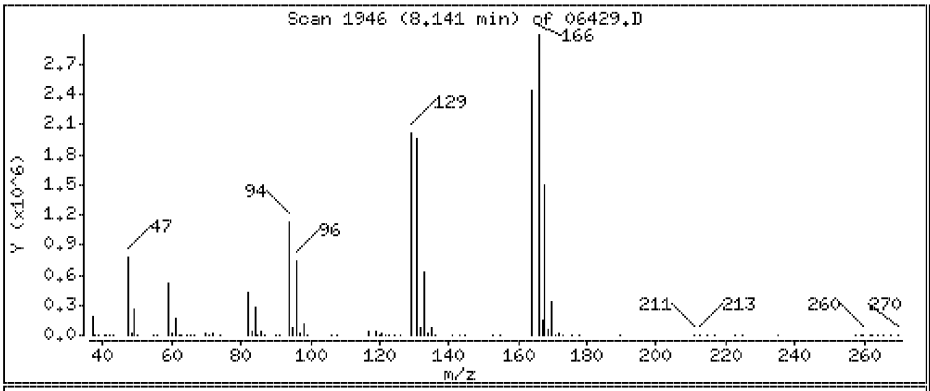
Operator: NCK

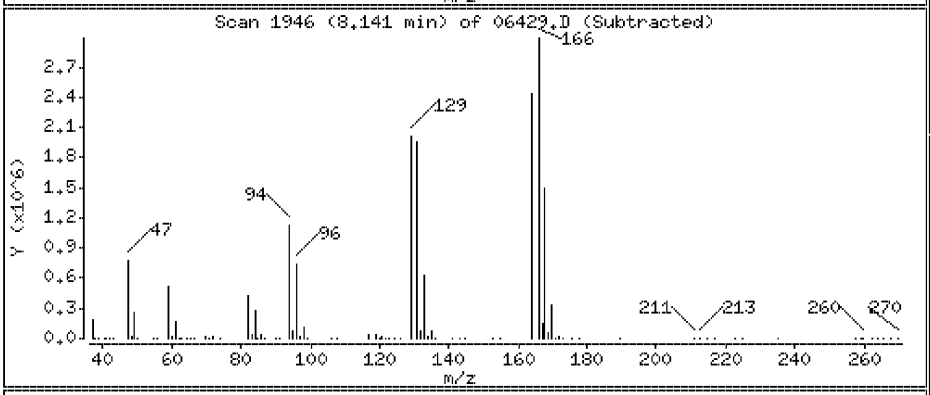
Column phase: J&W DB-5

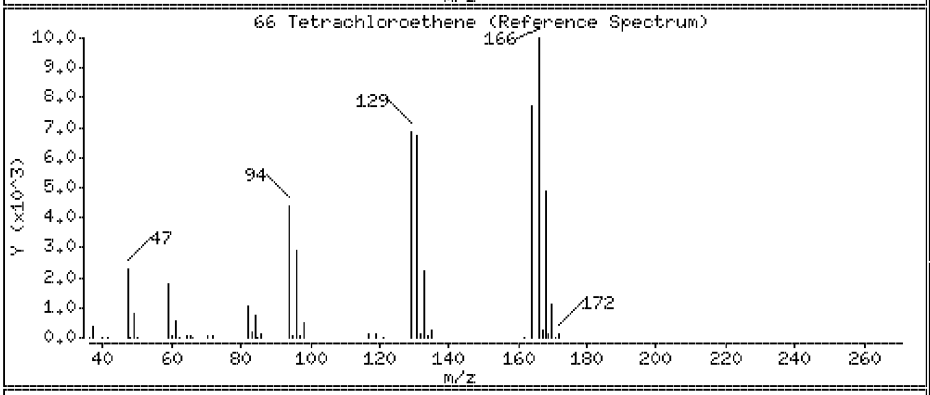
Column diameter: 0.32

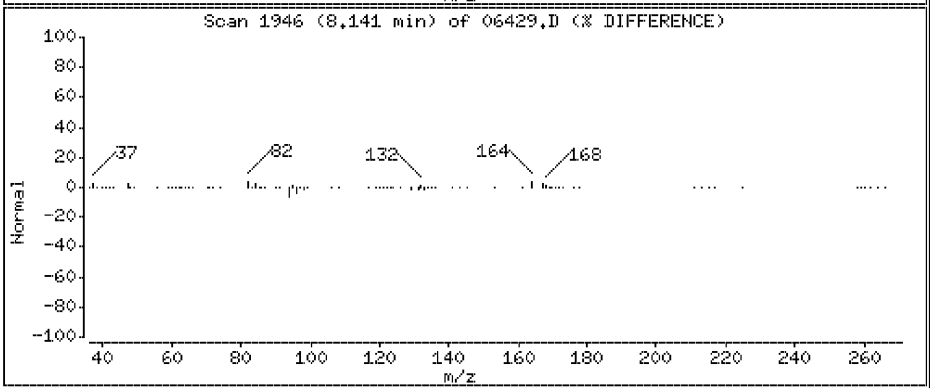
66 Tetrachloroethene

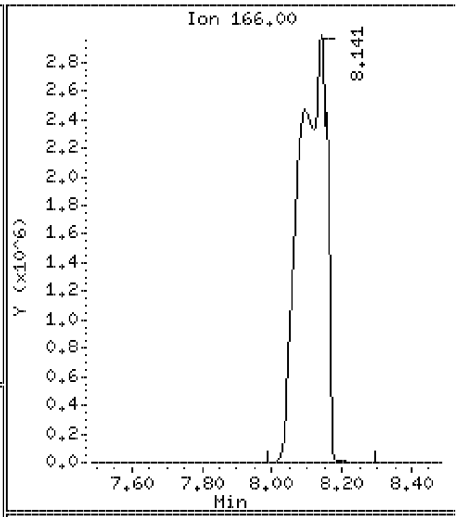
Concentration: 981 ppbv

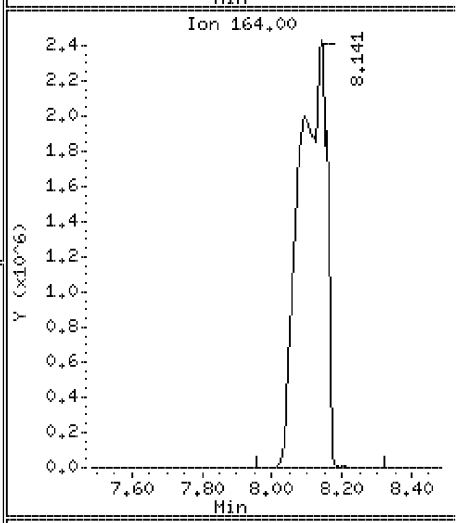


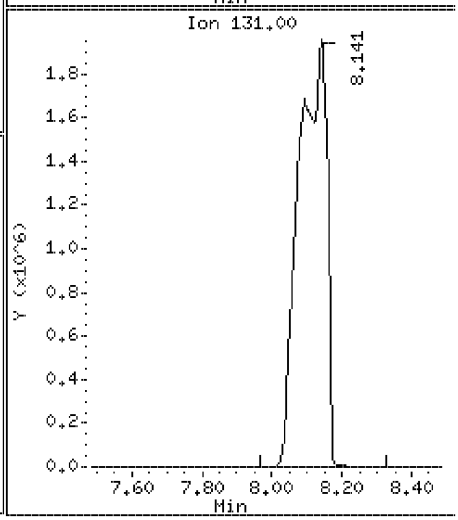












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

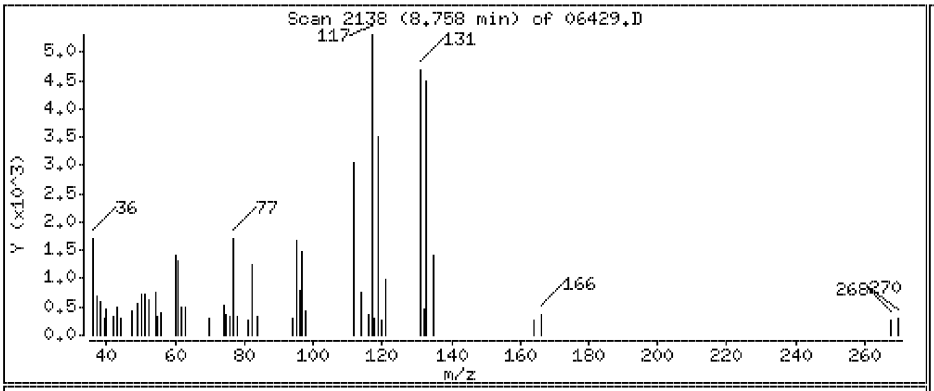
Operator: NCK

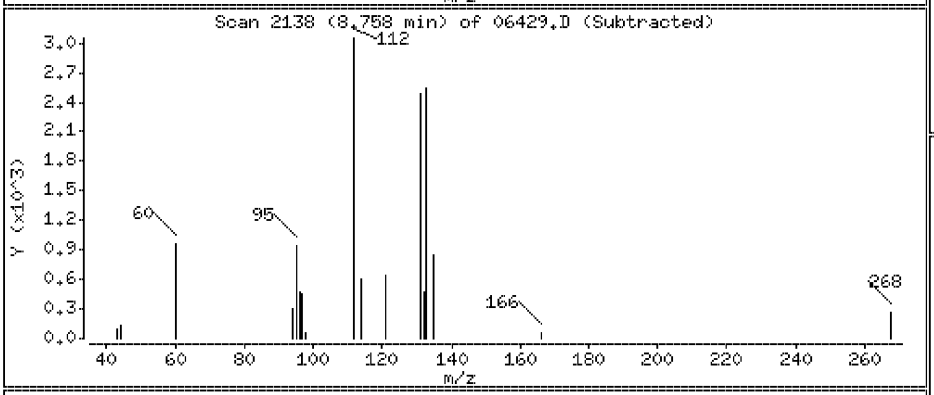
Column phase: J&W DB-5

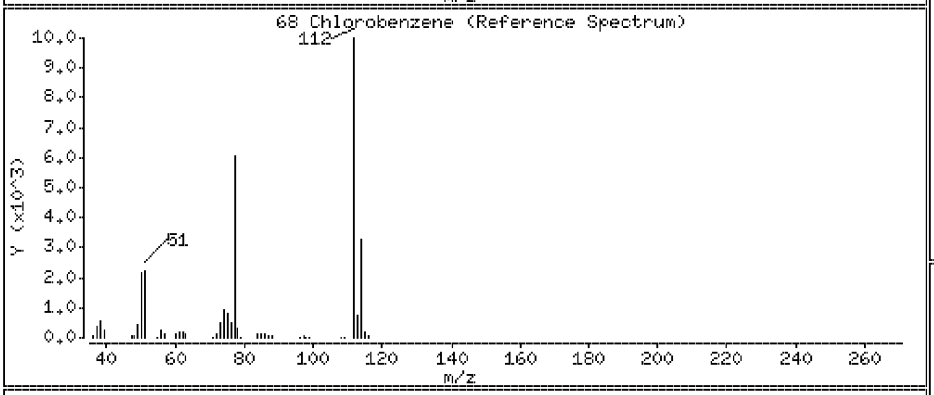
Column diameter: 0.32

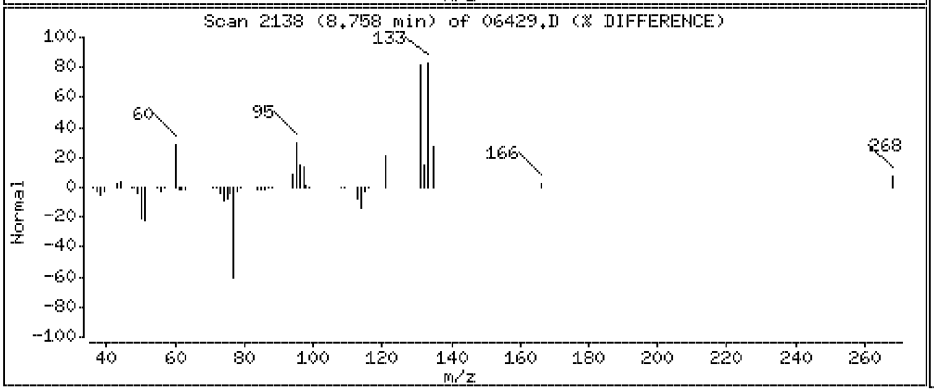
68 Chlorobenzene

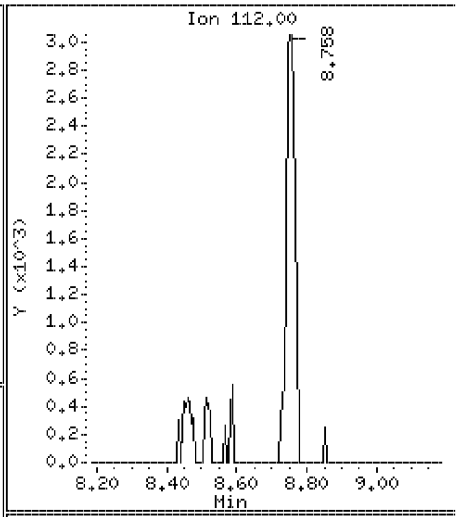
Concentration: 0.215 ppbv

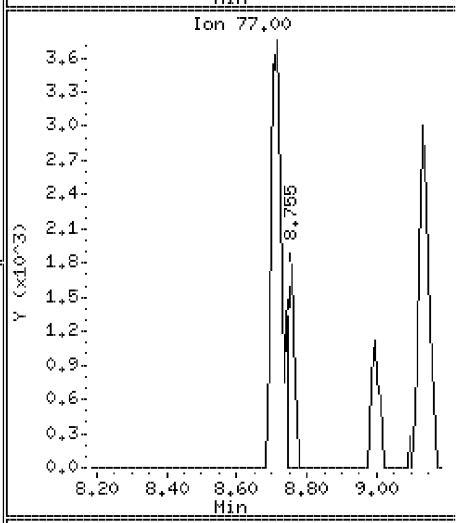


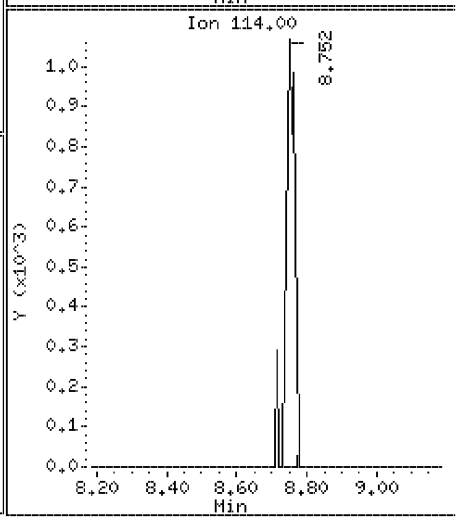












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

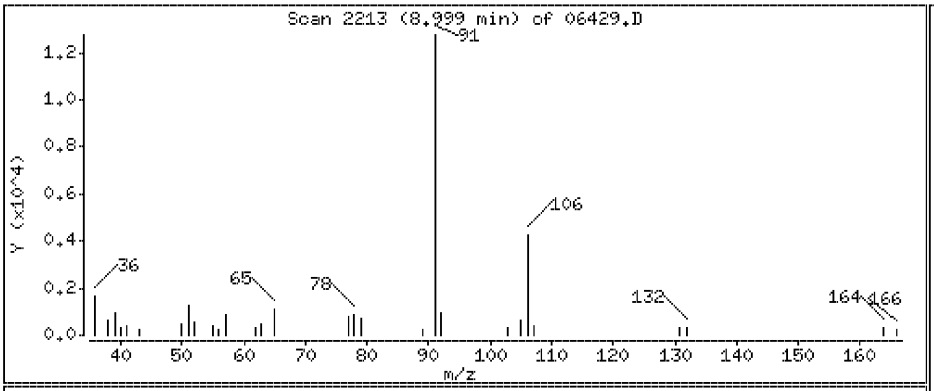
Operator: NCK

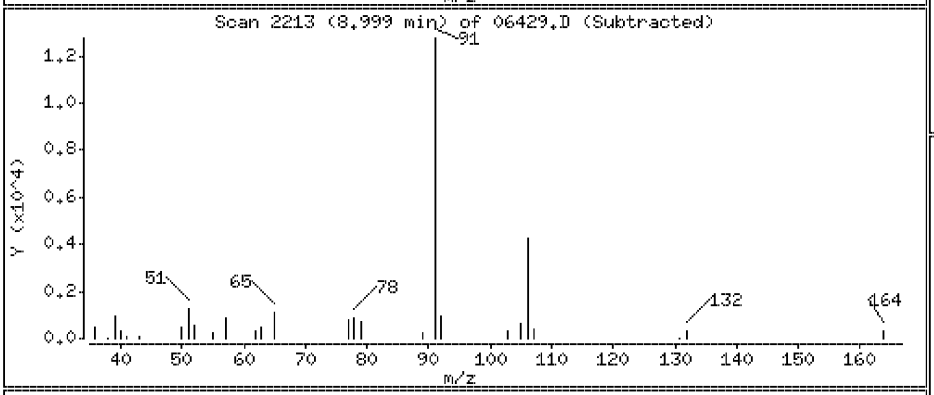
Column phase: J&W DB-5

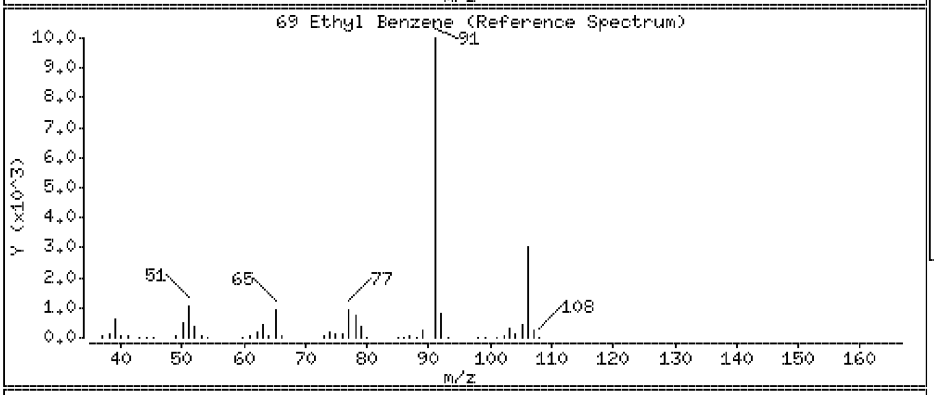
Column diameter: 0.32

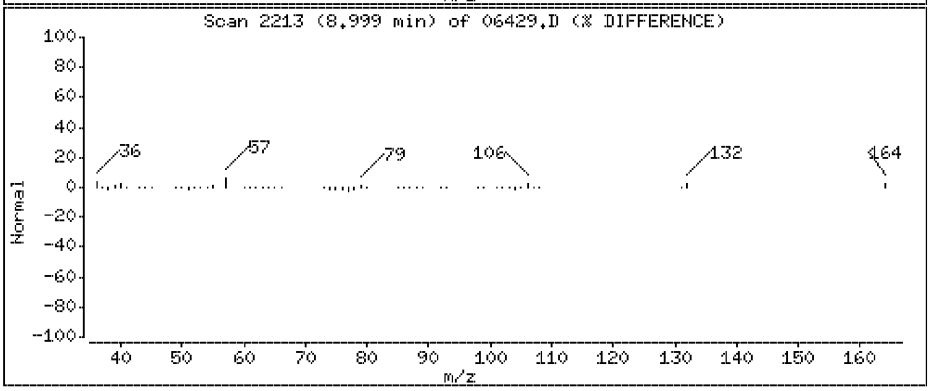
69 Ethyl Benzene

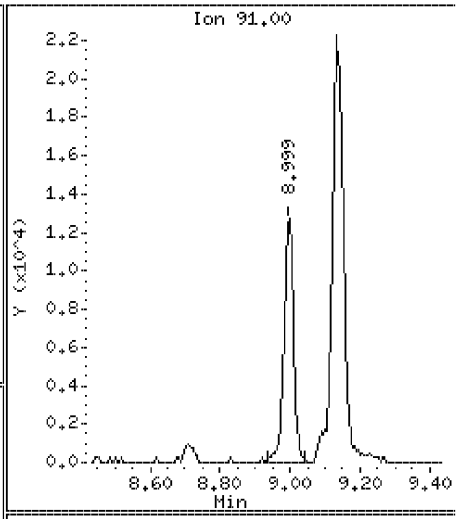
Concentration: 0.652 ppbv

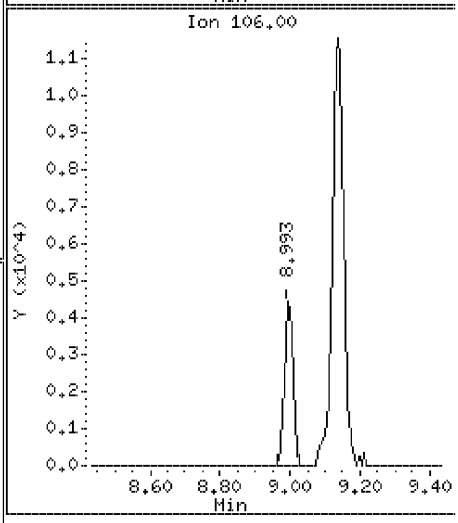












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

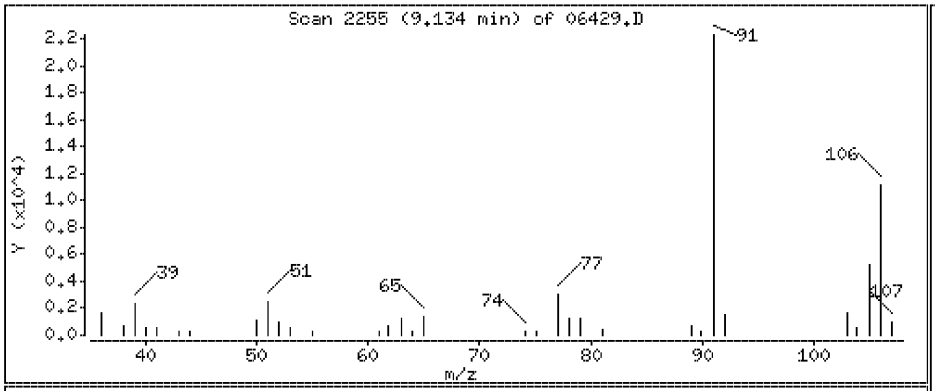
Operator: NCK

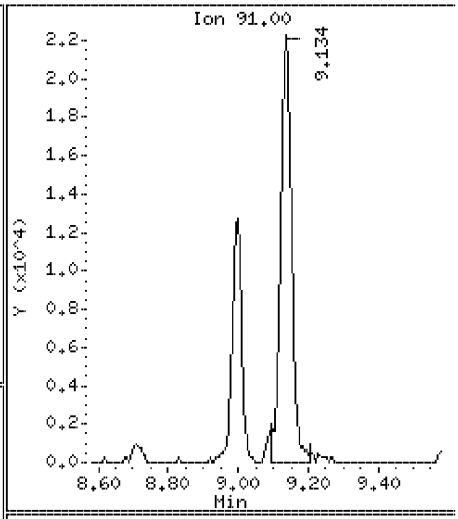
Column phase: J&W DB-5

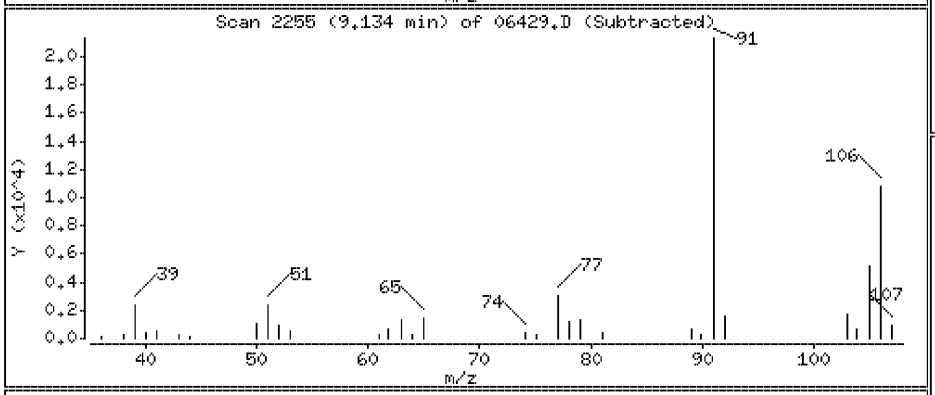
Column diameter: 0.32

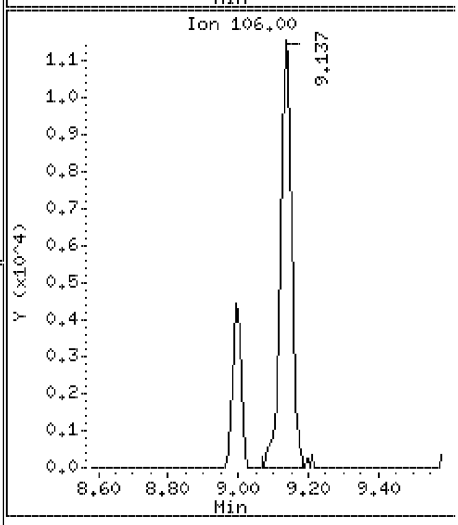
70 m&p-Xylene

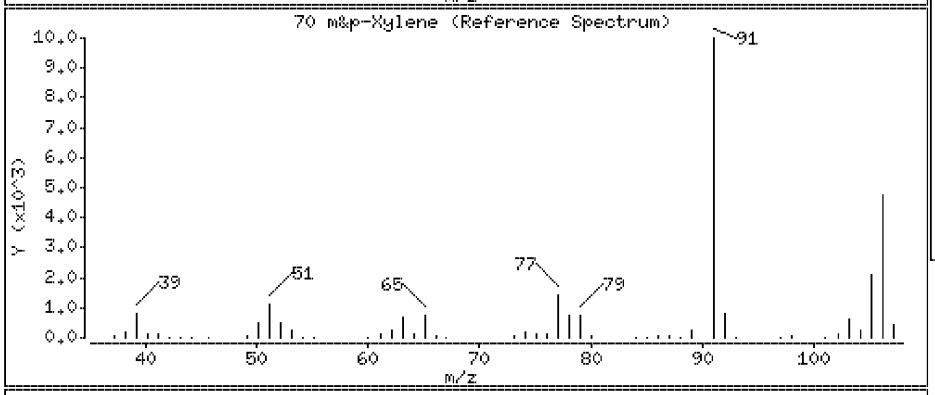
Concentration: 1.69 ppbv

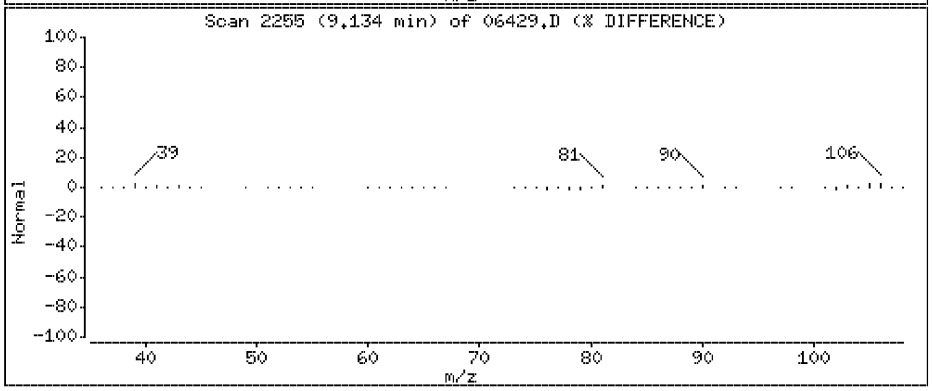












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

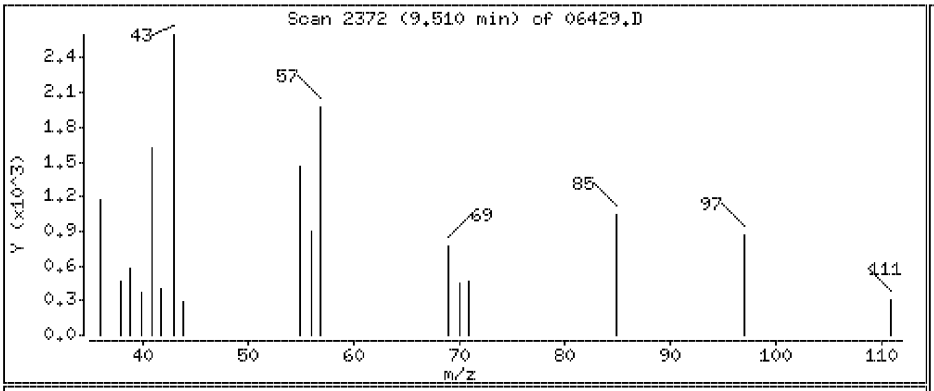
Operator: NCK

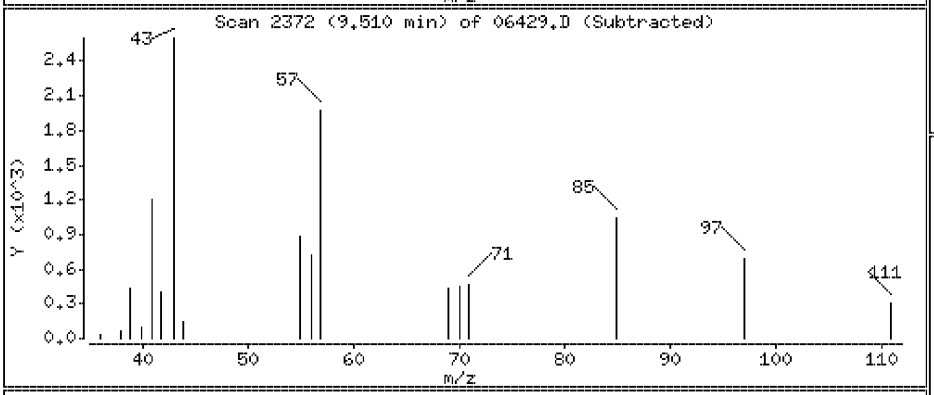
Column phase: J&W DB-5

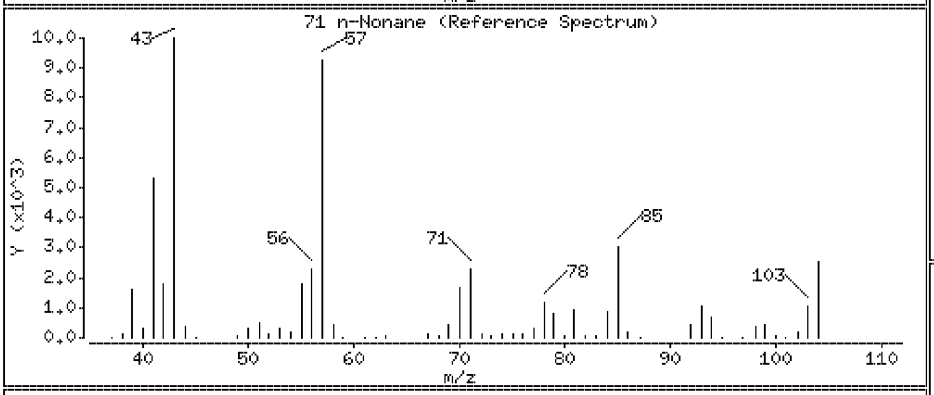
Column diameter: 0.32

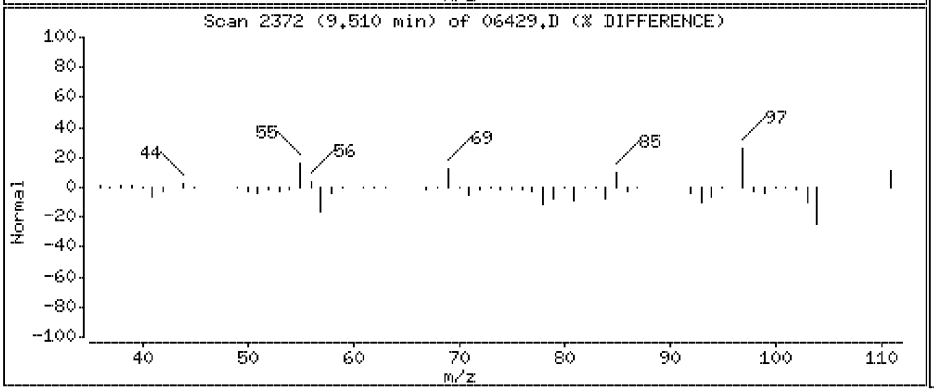
71 n-Nonane

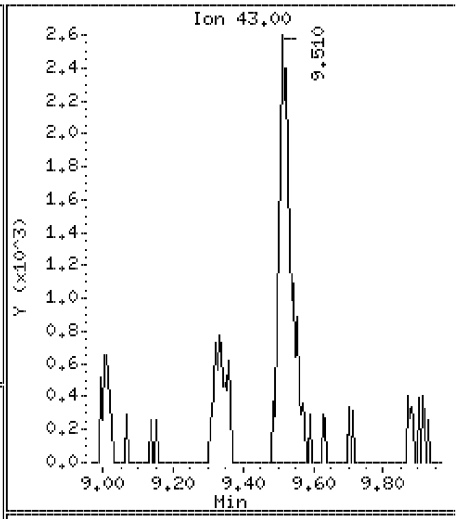
Concentration: 0.433 ppbv

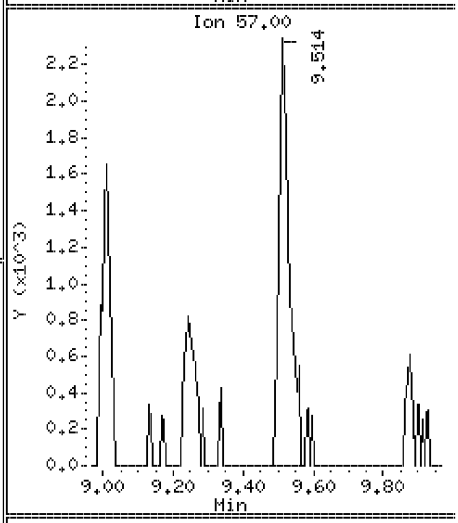


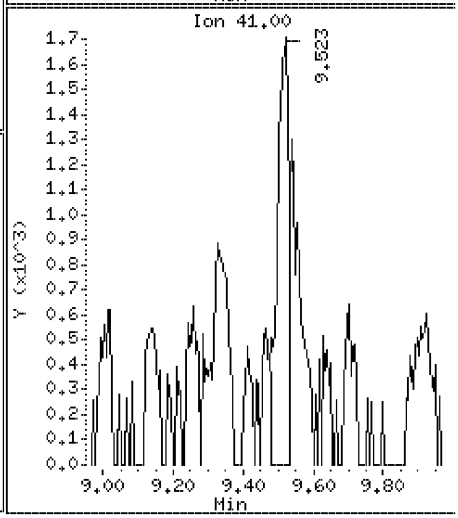












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

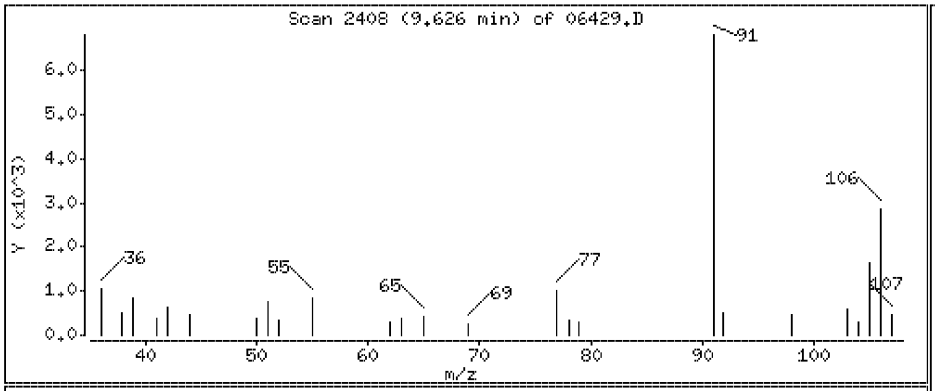
Operator: NCK

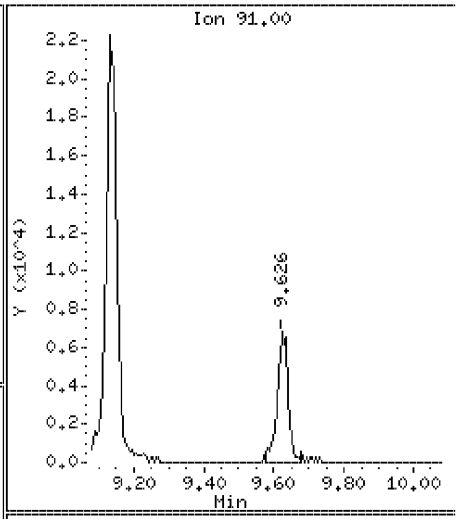
Column phase: J&W DB-5

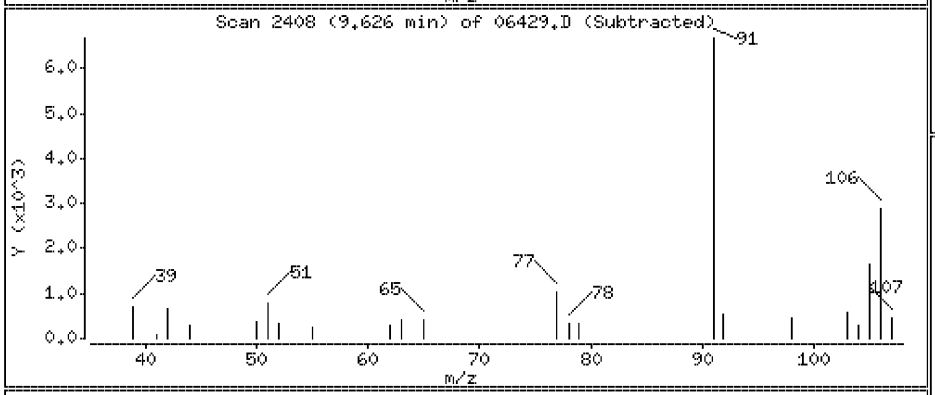
Column diameter: 0.32

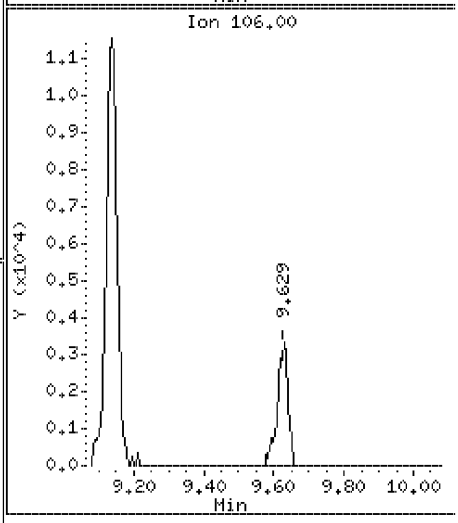
74 o-Xylene

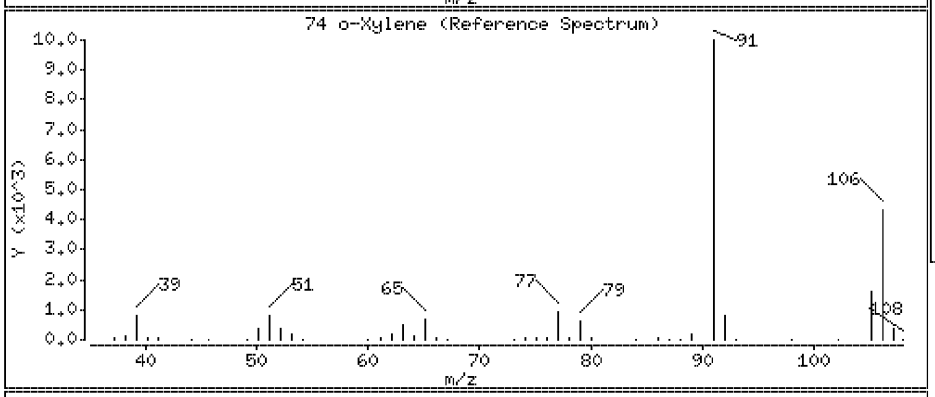
Concentration: 0.489 ppbv

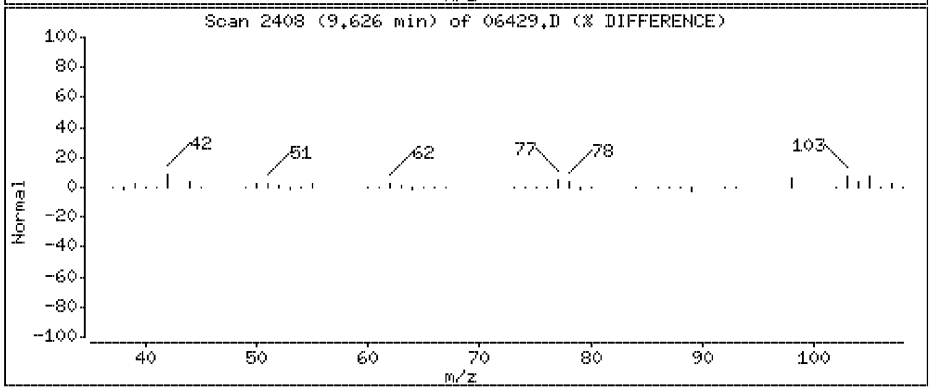












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

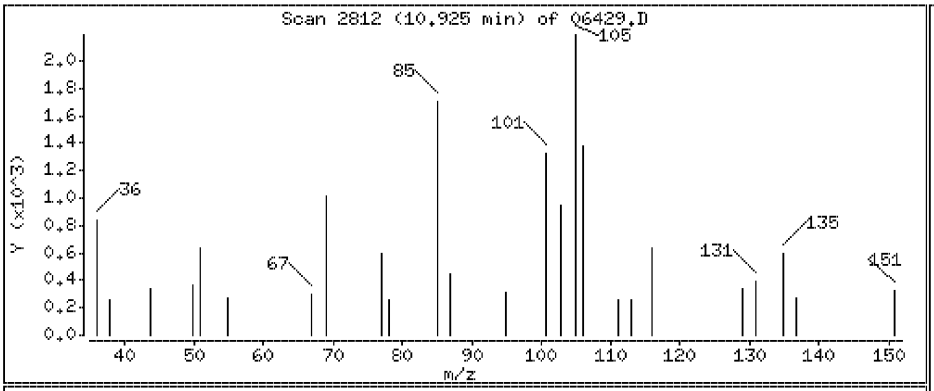
Operator: NCK

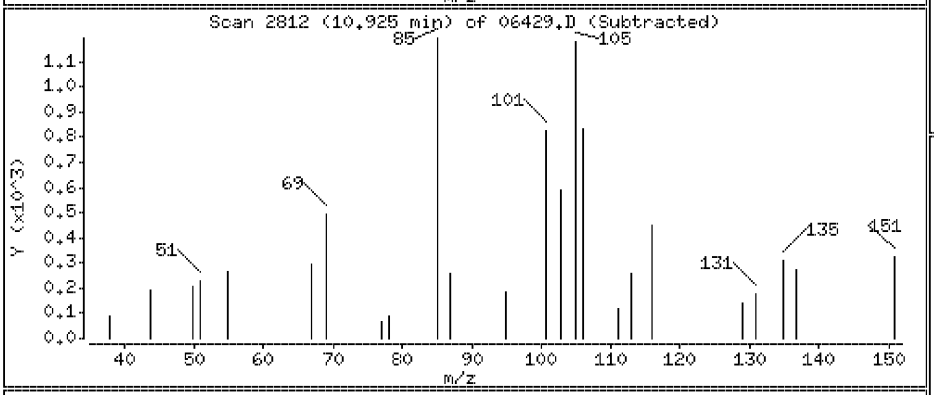
Column phase: J&W DB-5

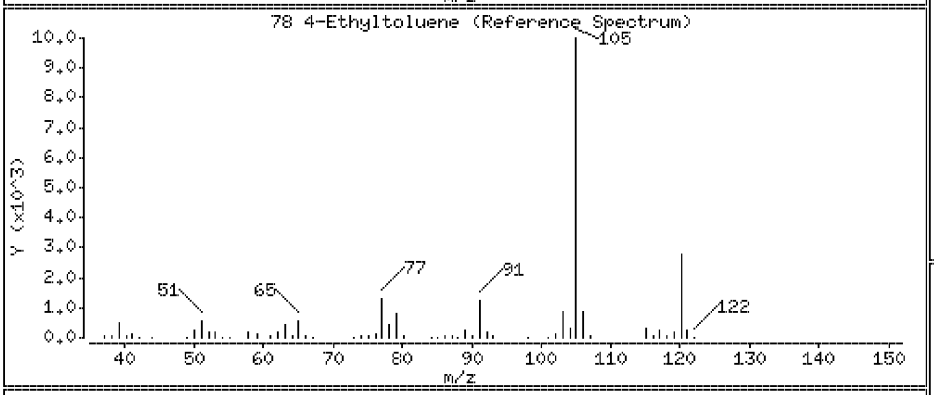
Column diameter: 0.32

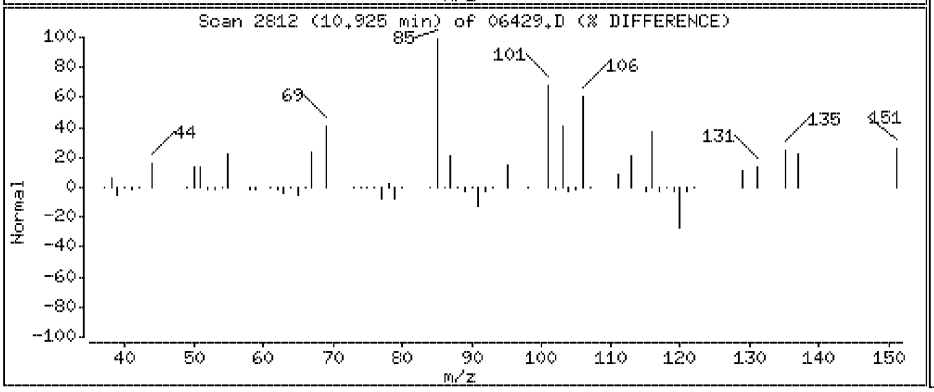
78 4-Ethyltoluene

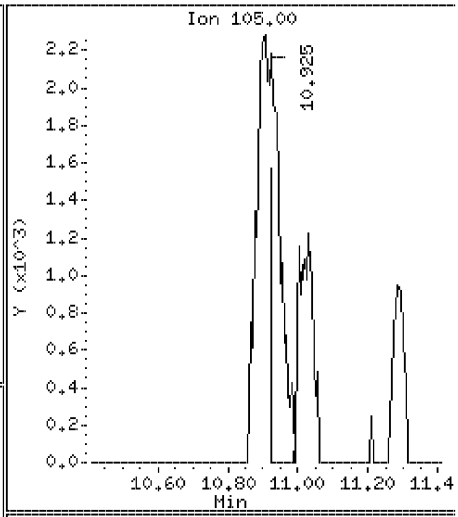
Concentration: 0.278 ppbv

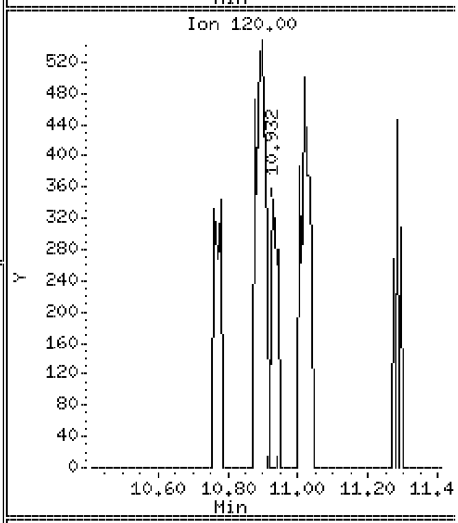


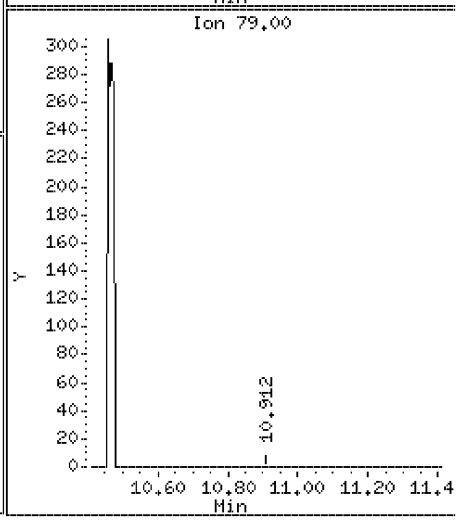












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

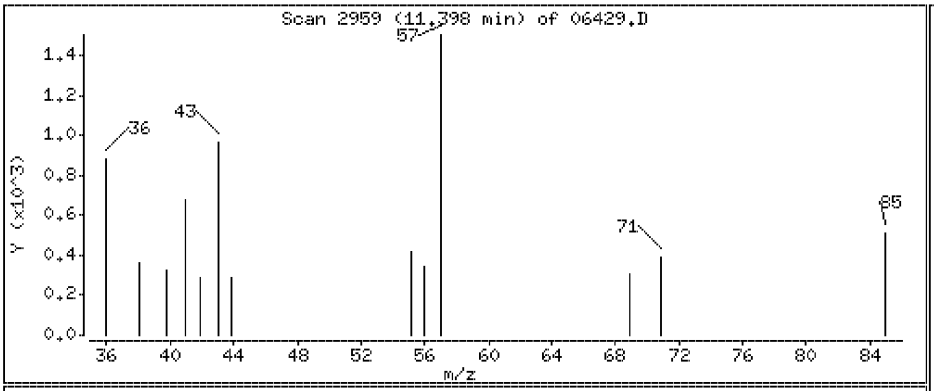
Operator: NCK

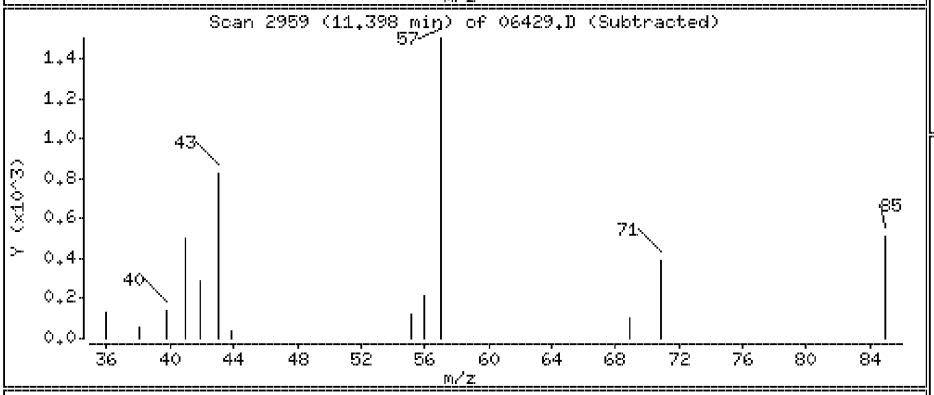
Column phase: J&W DB-5

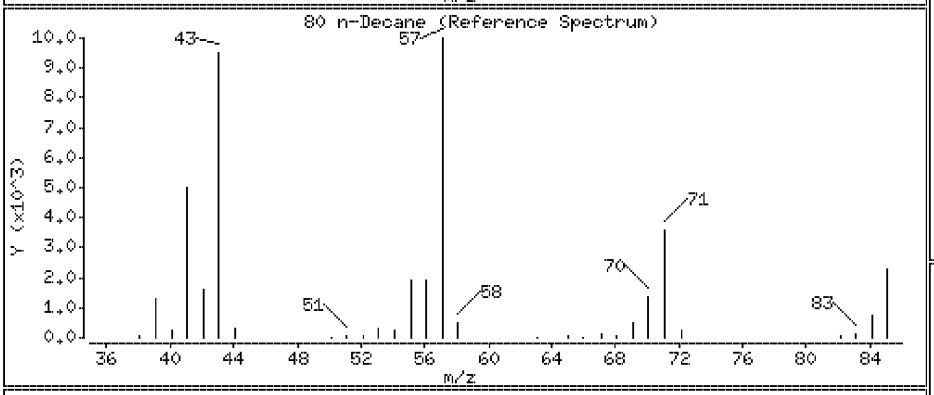
Column diameter: 0.32

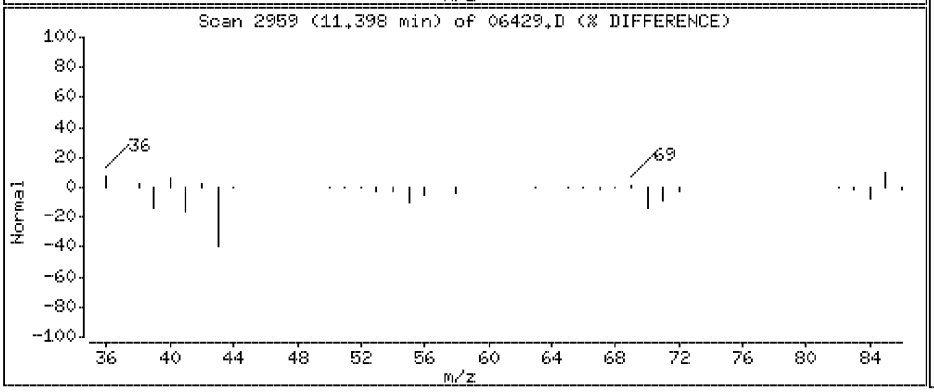
80 n-Decane

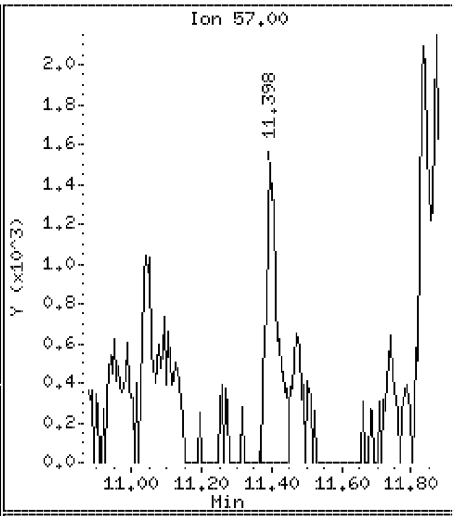
Concentration: 0.589 ppbv

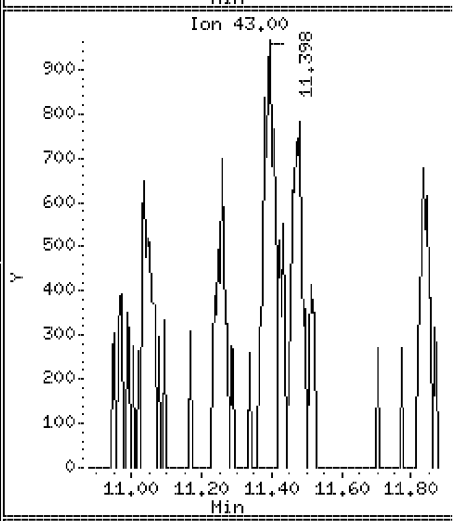


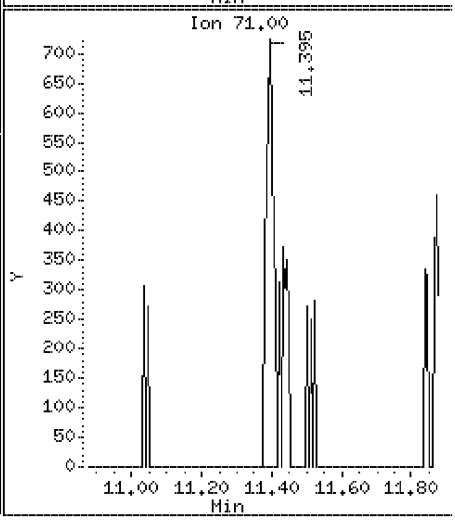












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

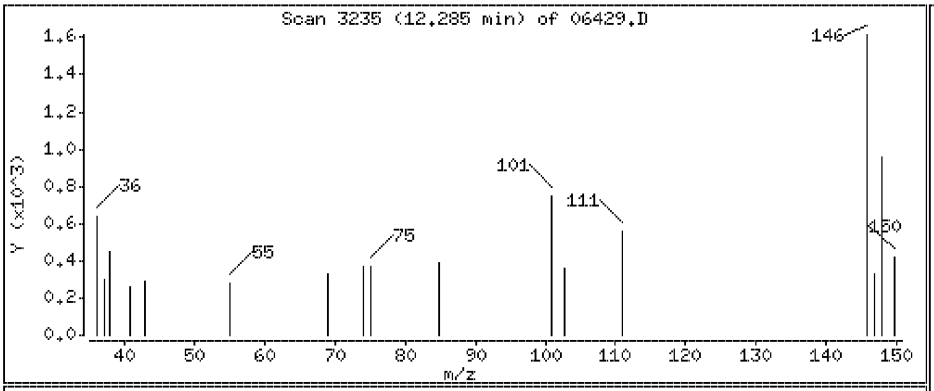
Operator: NCK

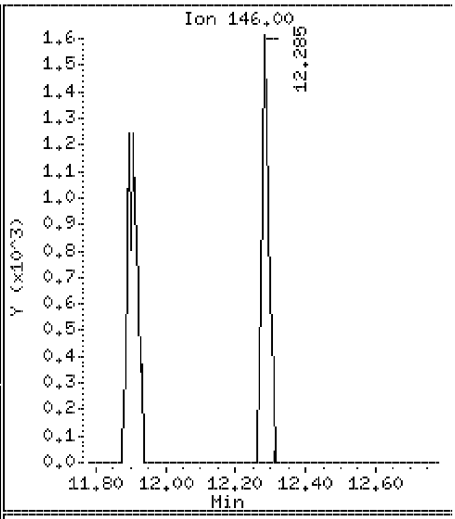
Column phase: J&W DB-5

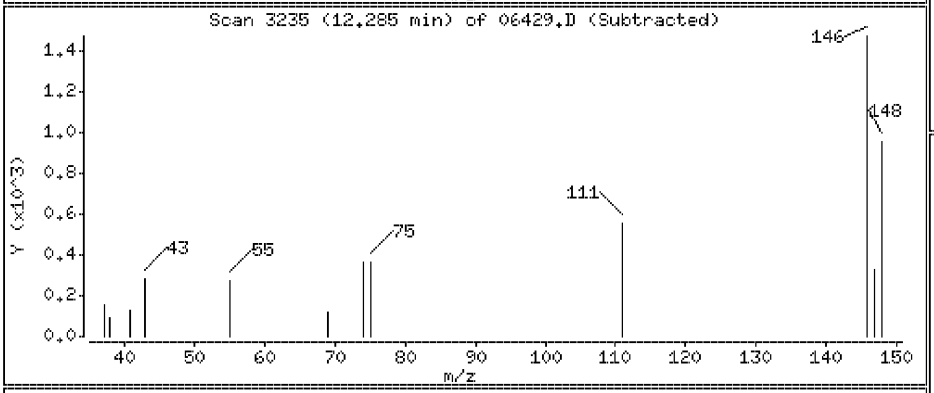
Column diameter: 0.32

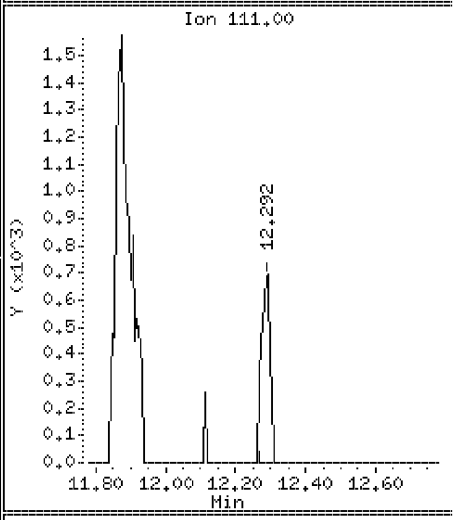
90 1,2-Dichlorobenzene

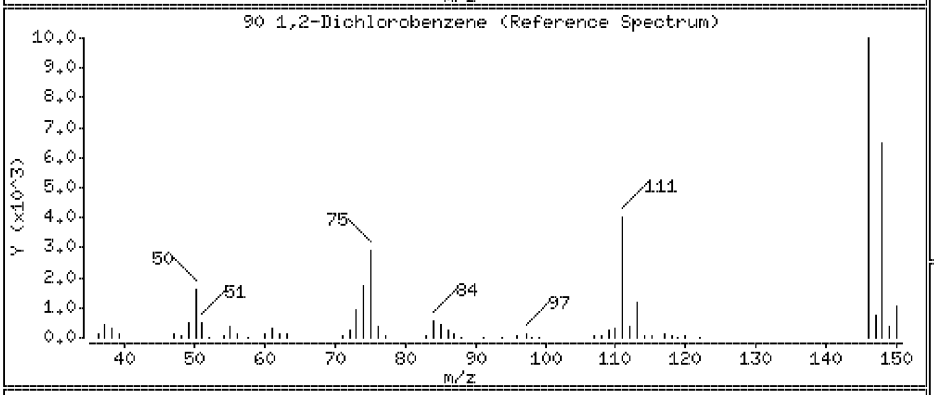
Concentration: 0.266 ppbv

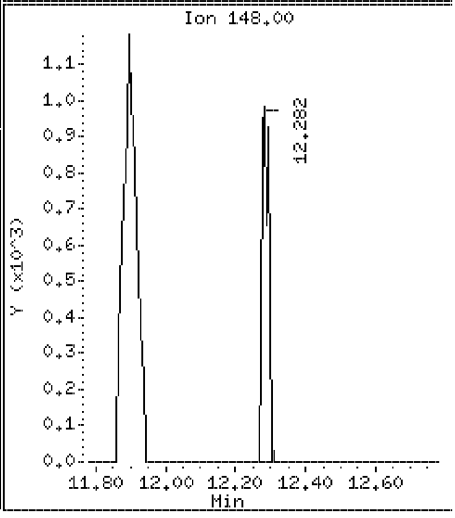


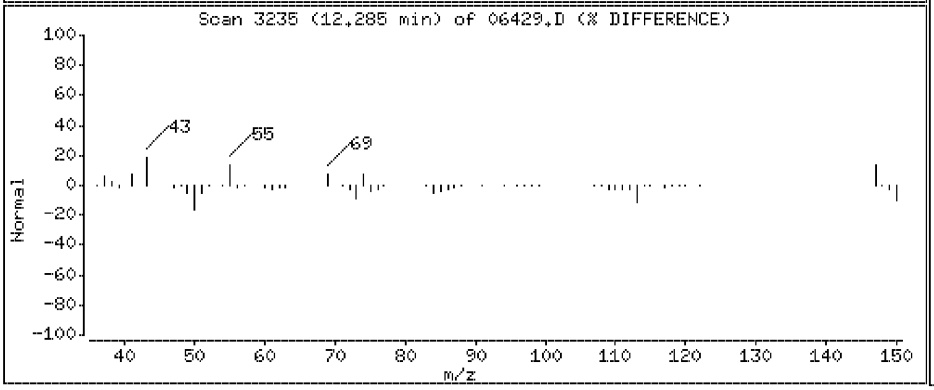












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06429.D

Date : 05-MAR-2017 23:41

Client ID:

Instrument: 10airB.i

Sample Info:

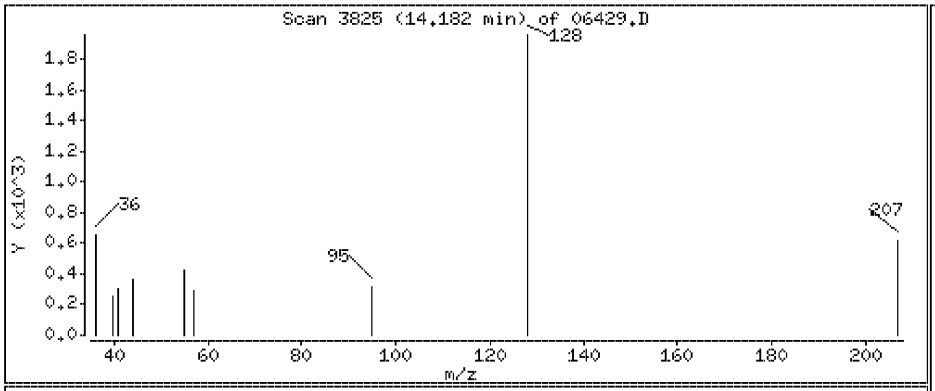
Operator: NCK

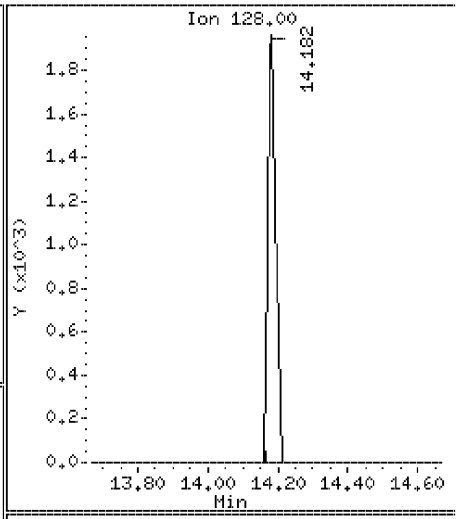
Column phase: J&W DB-5

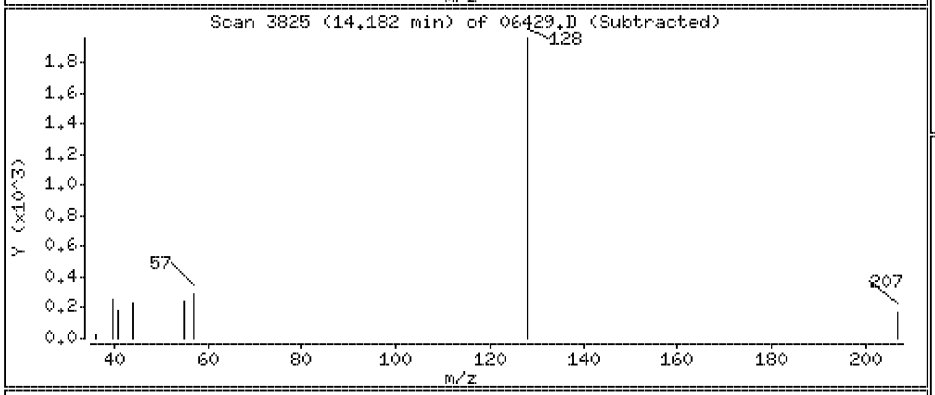
Column diameter: 0.32

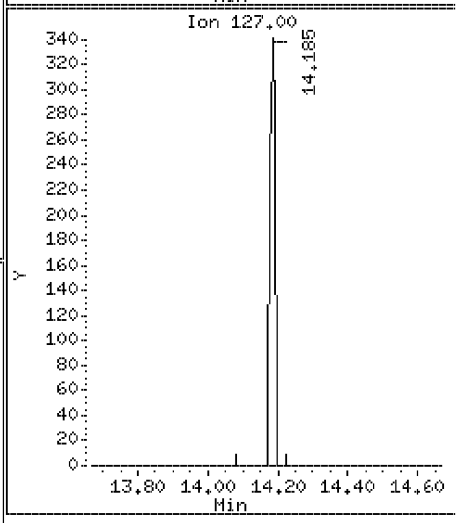
94 Naphthalene

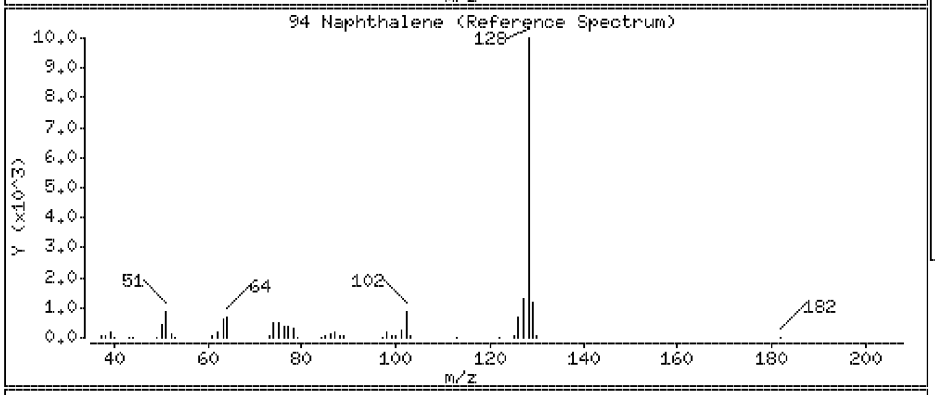
Concentration: 0.736 ppbv

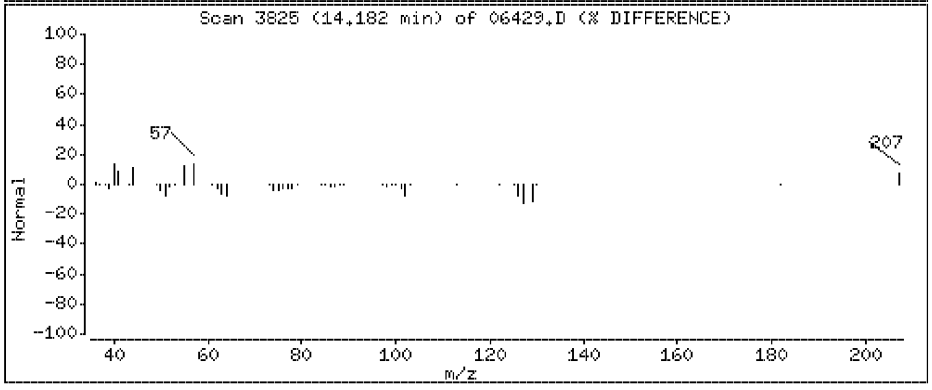






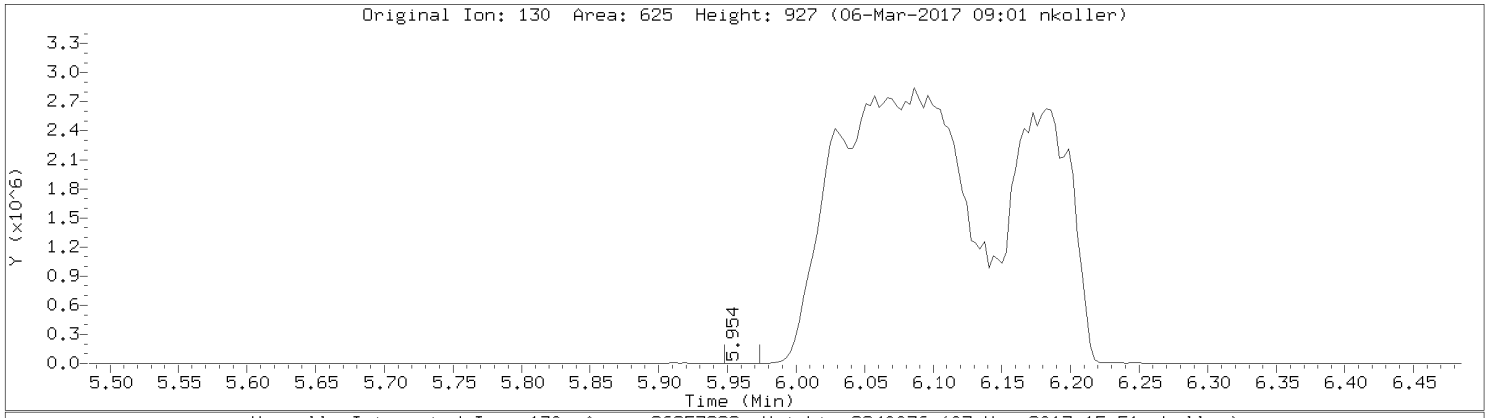


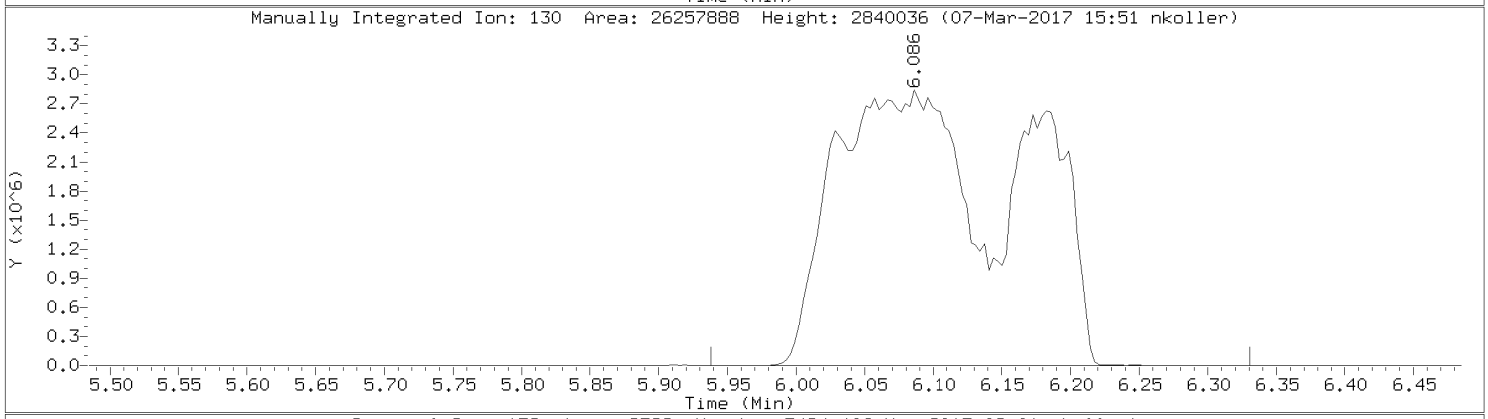


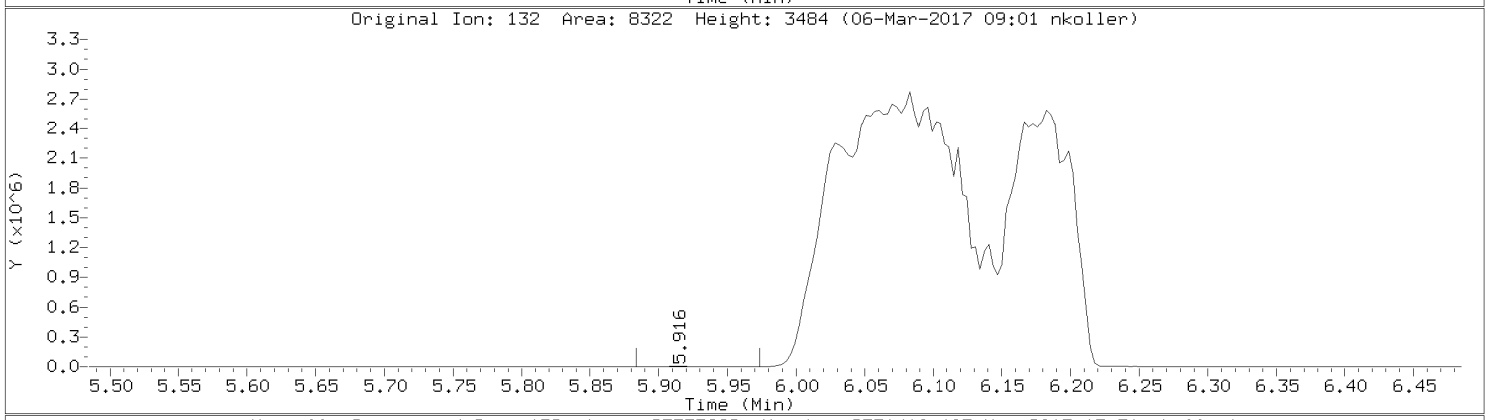


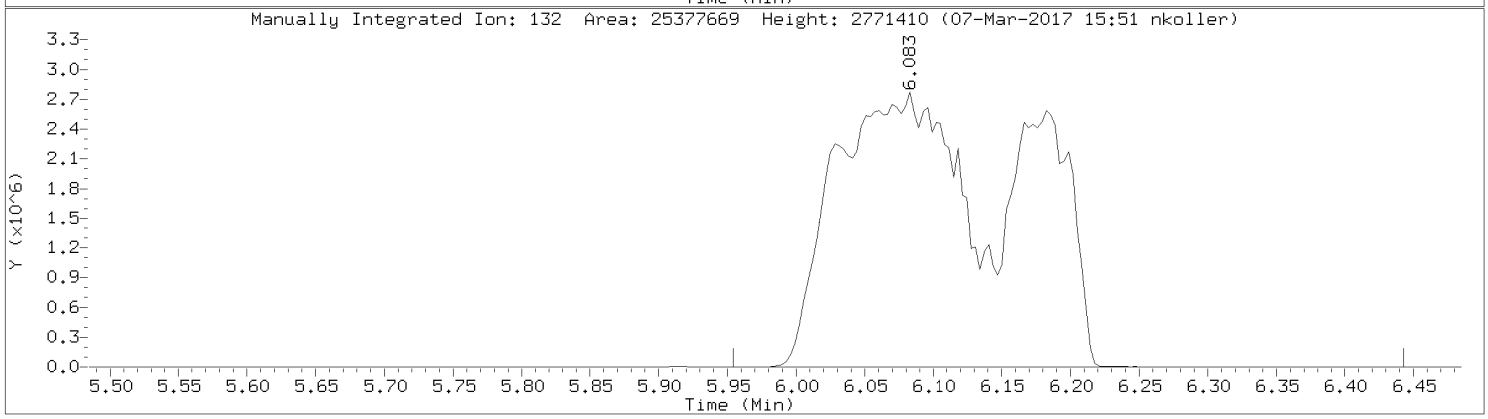
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

Compound: Trichloroethene
CAS Number: 79-01-6

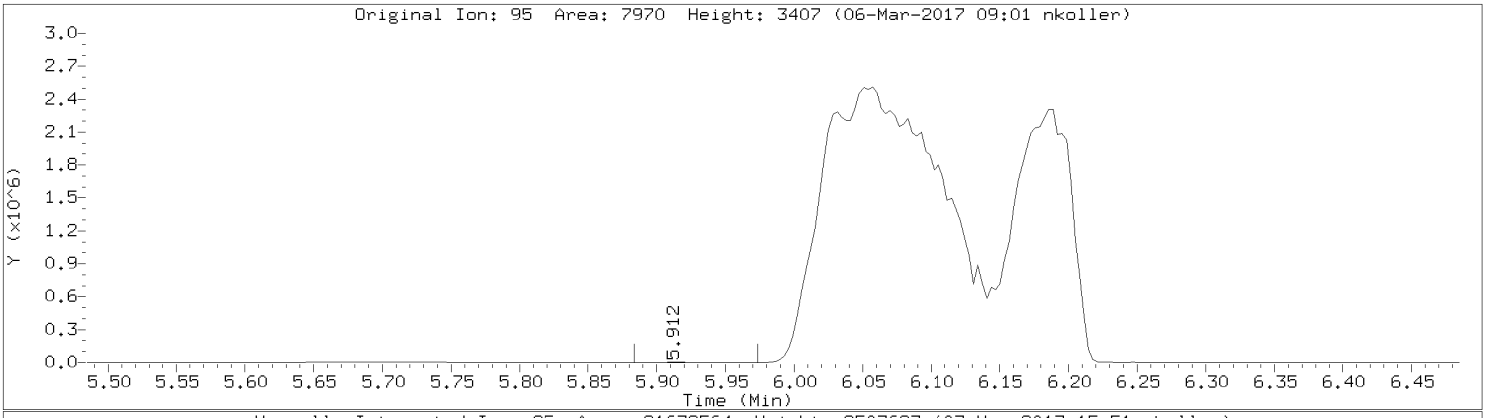


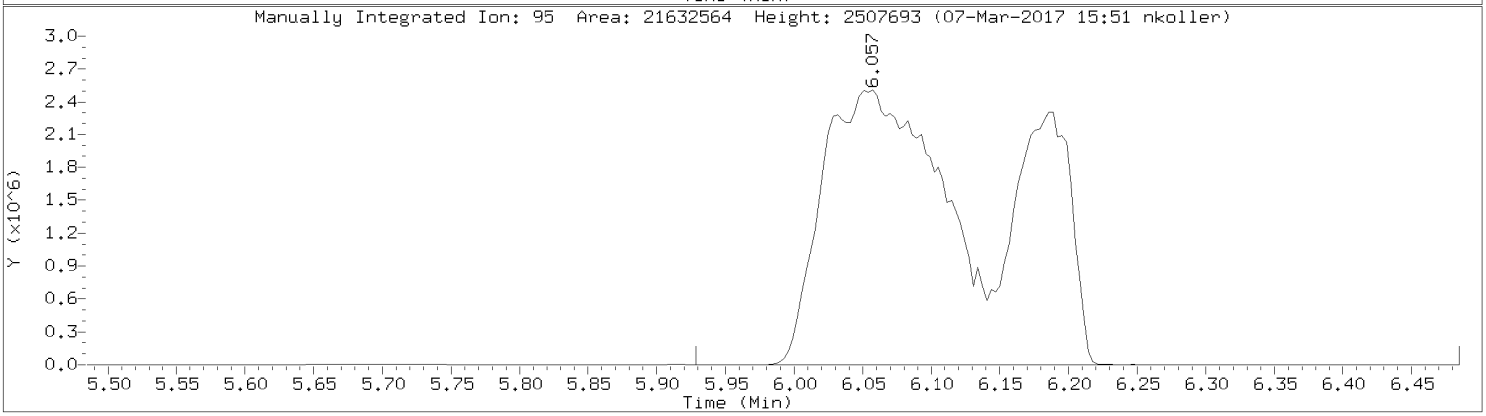






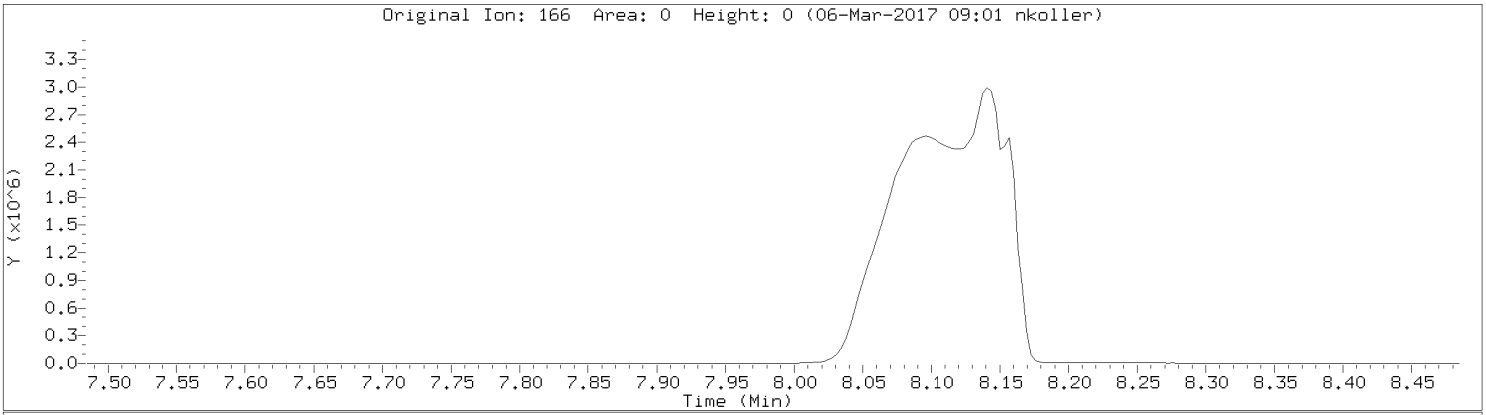
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

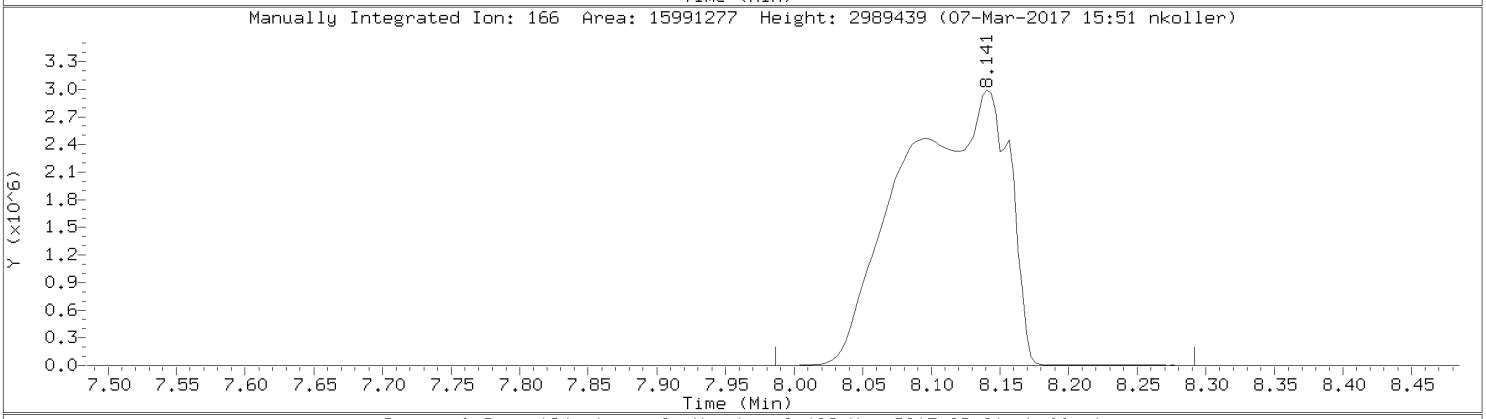


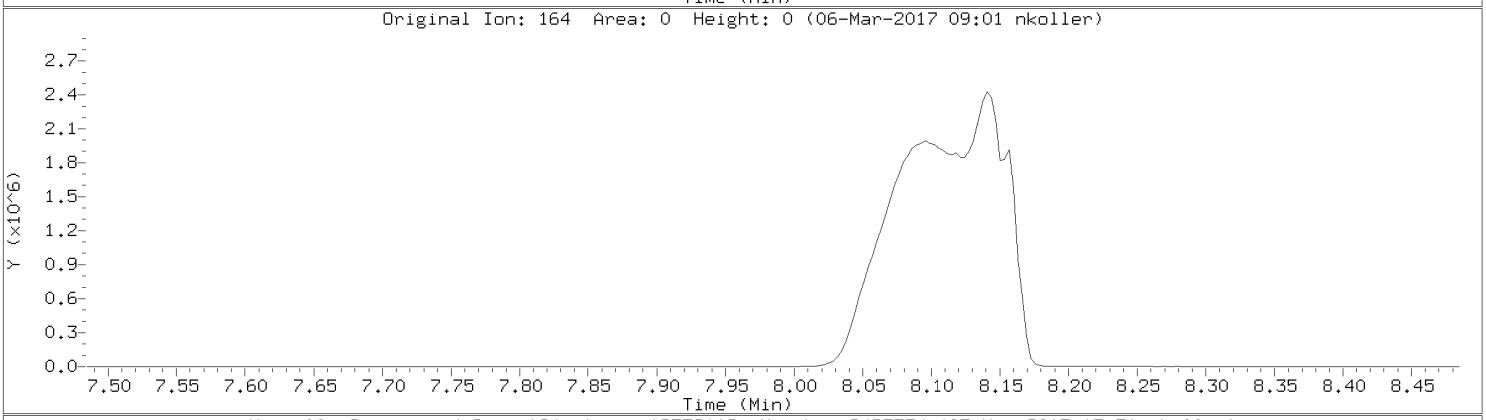


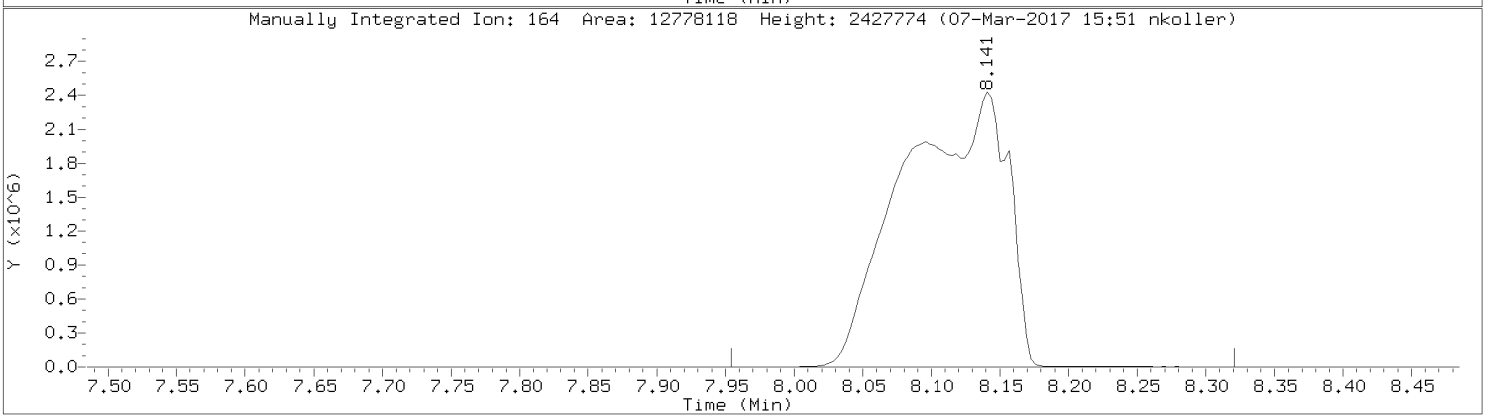
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

Compound: Tetrachloroethene
CAS Number: 127-18-4

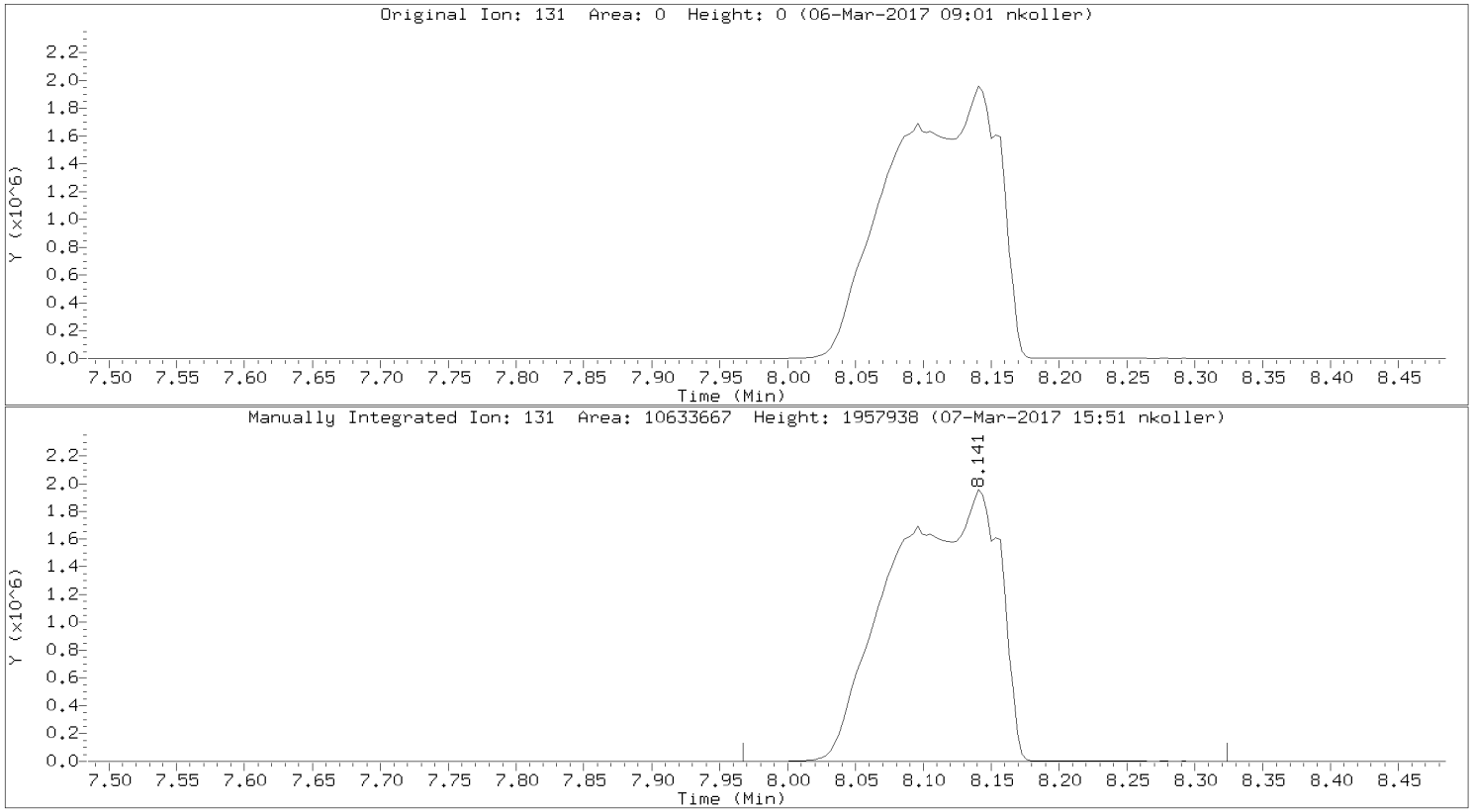






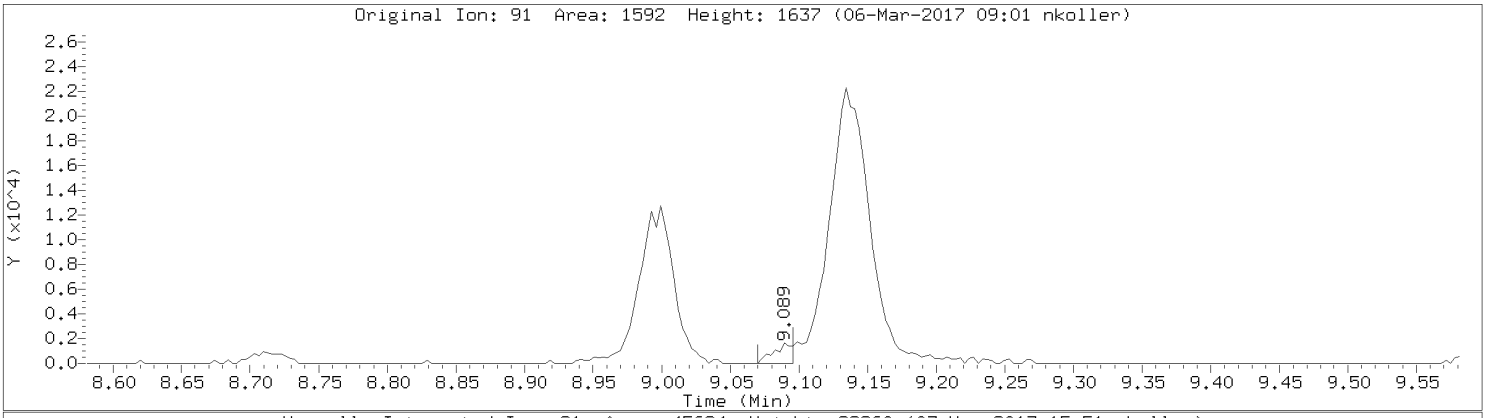


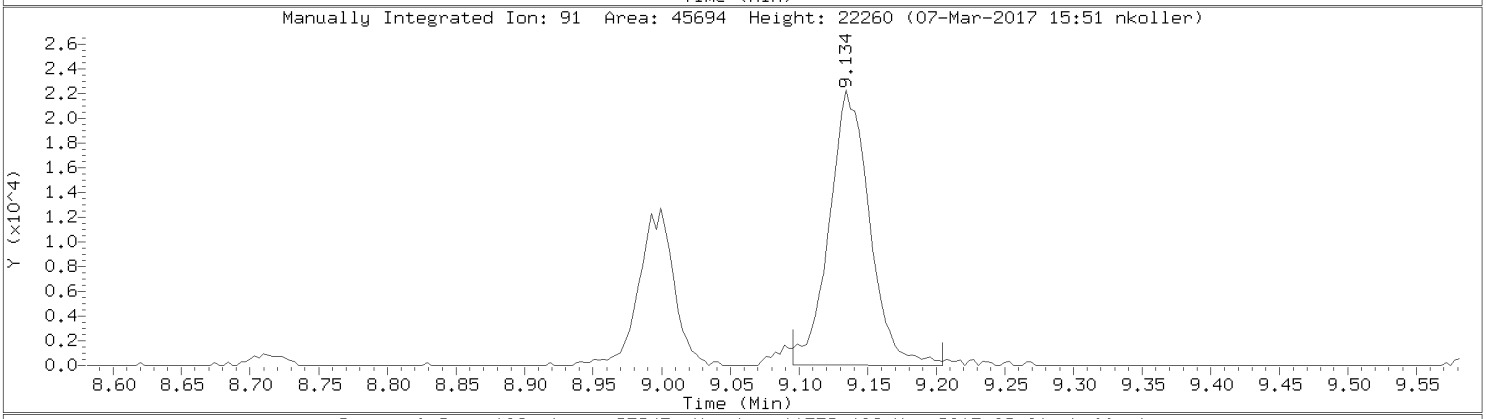
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

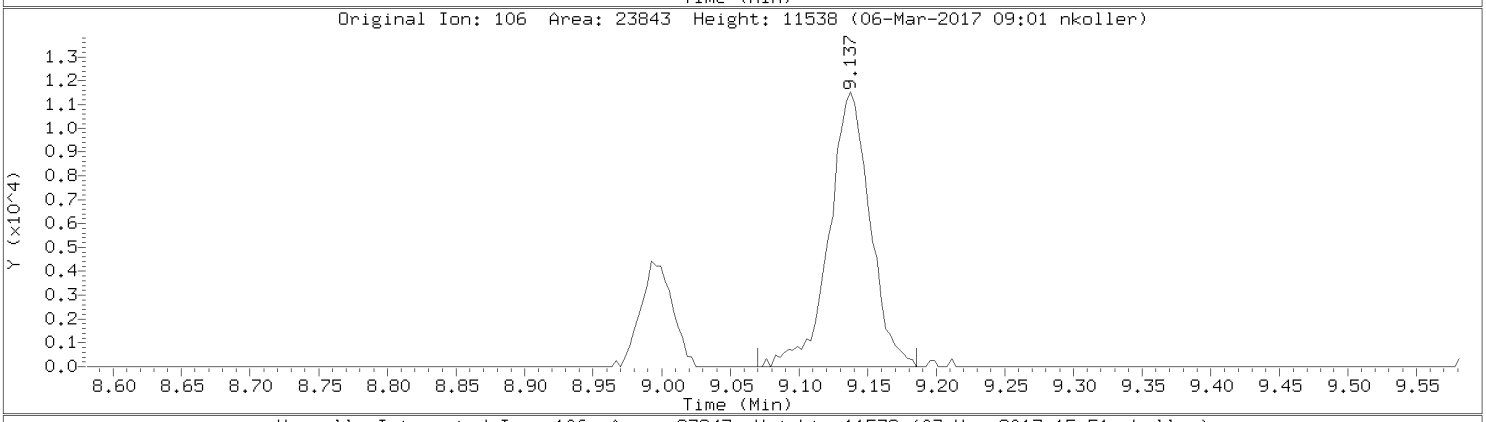


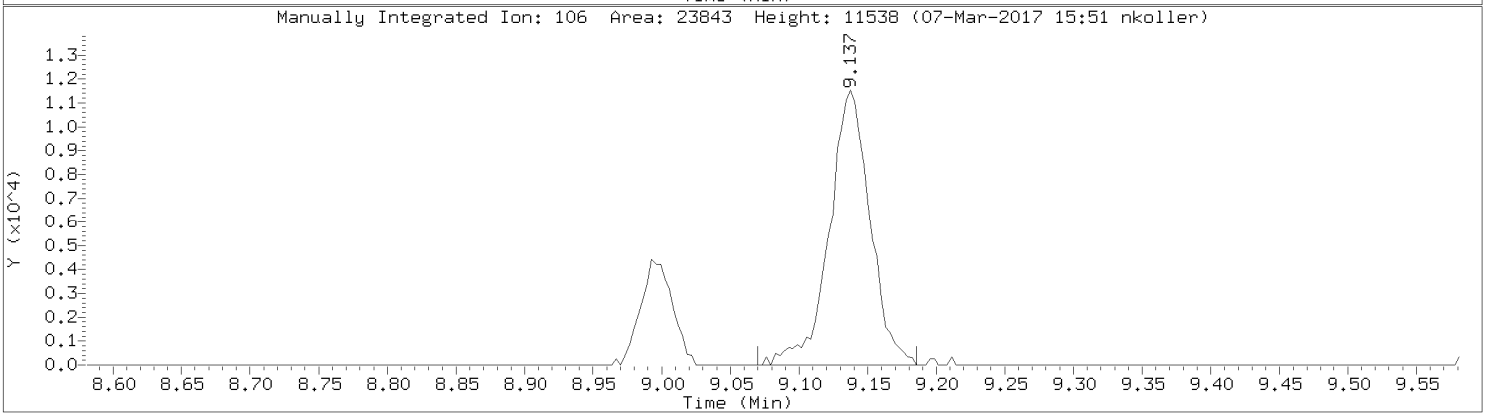
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

Compound: m&p-Xylene
CAS Number: 7816-60-0



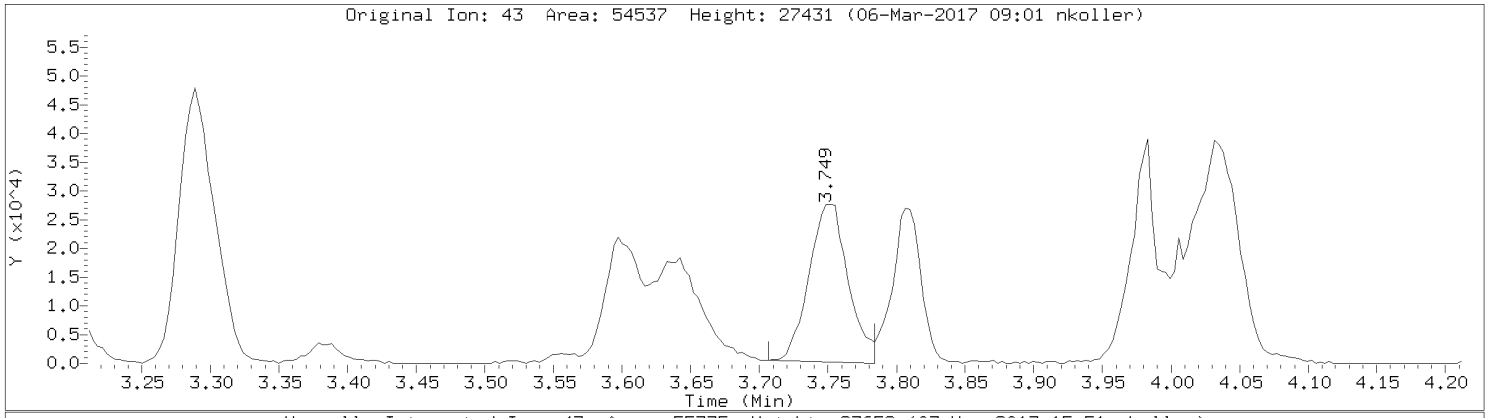


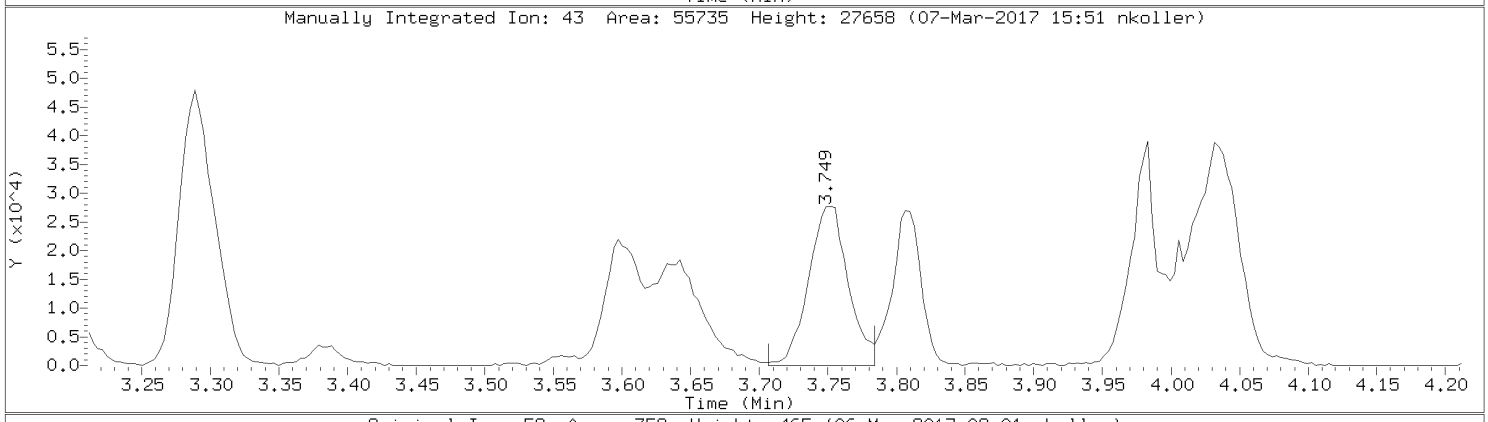


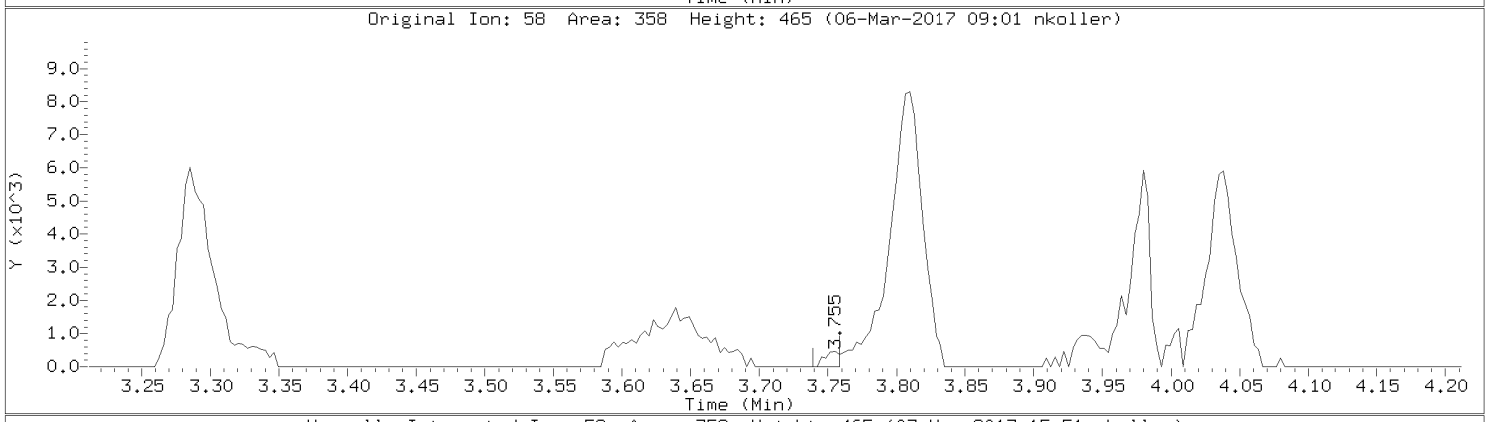


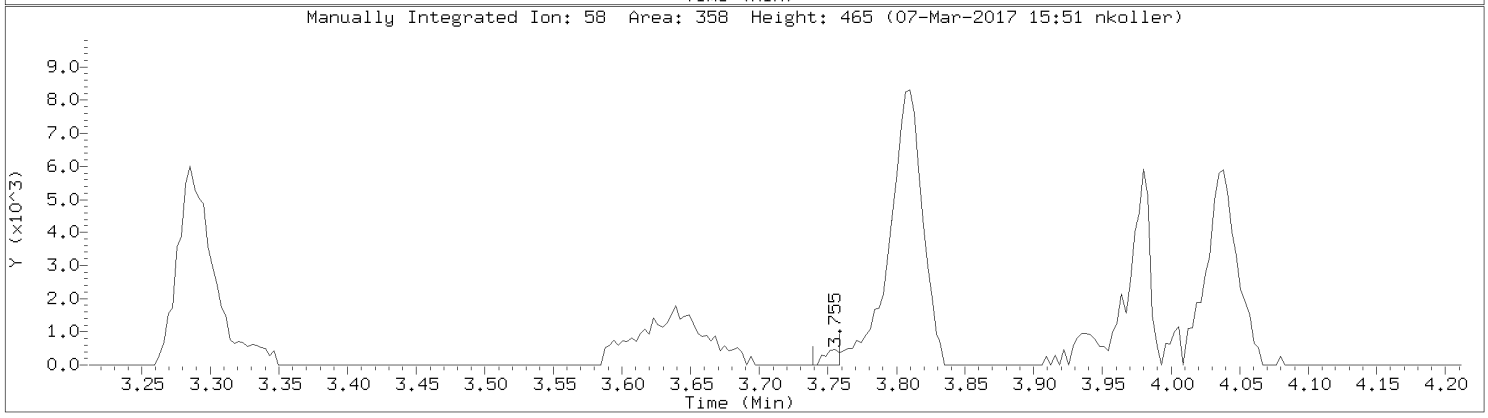
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

Compound: Acetone
CAS Number: 67-64-1



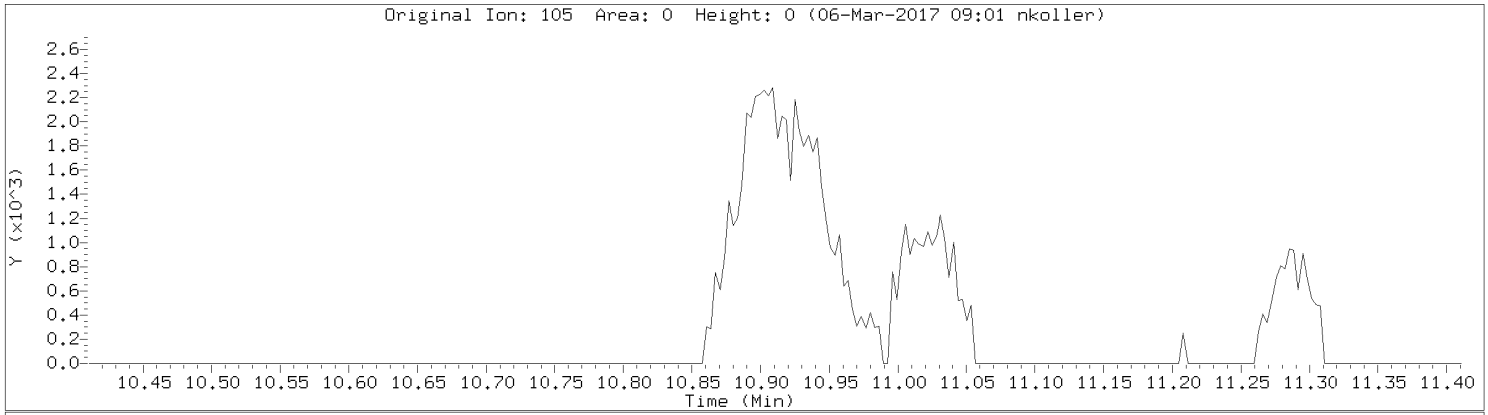


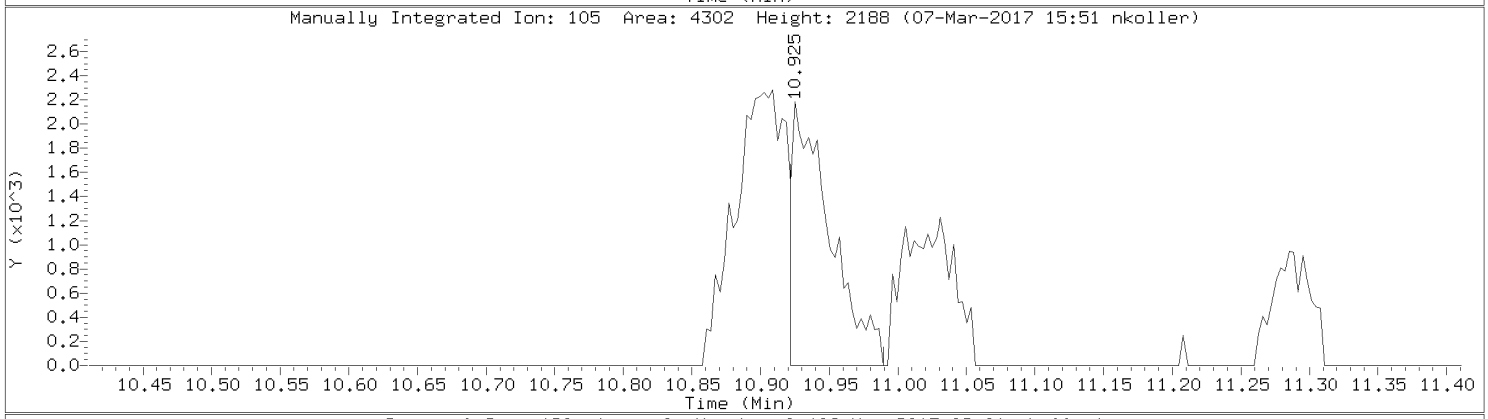


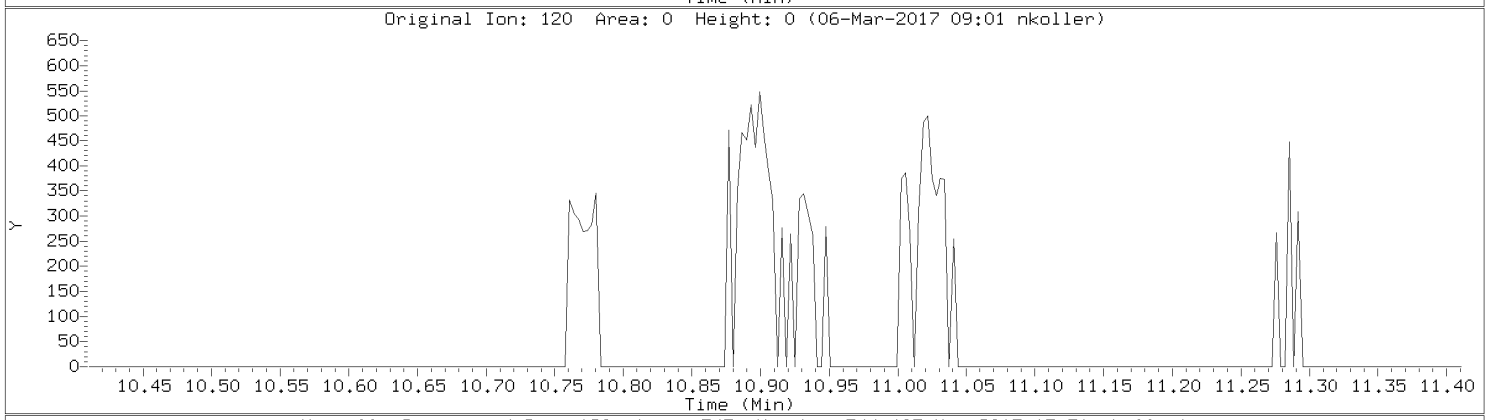


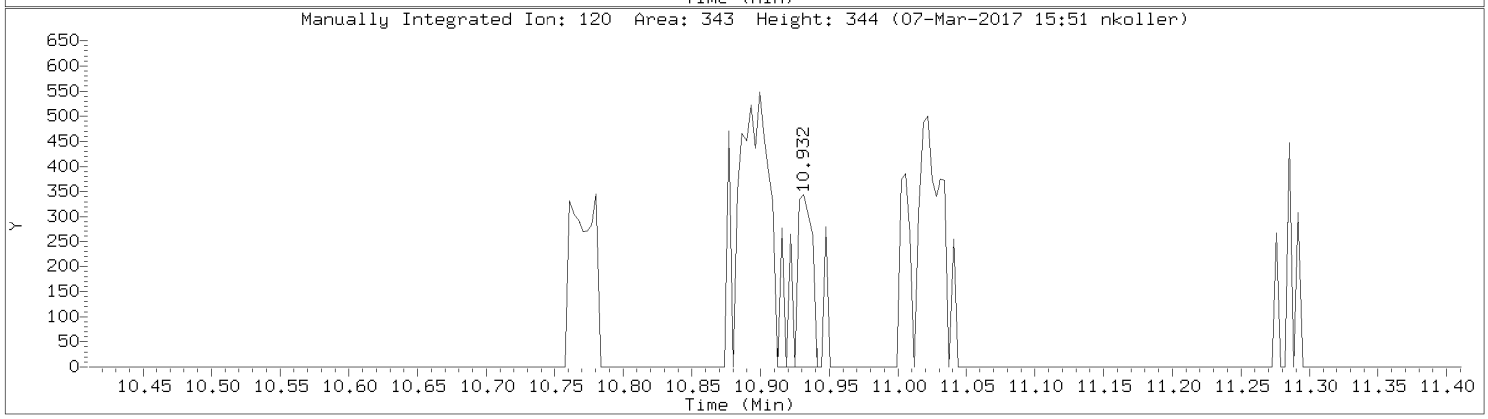
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

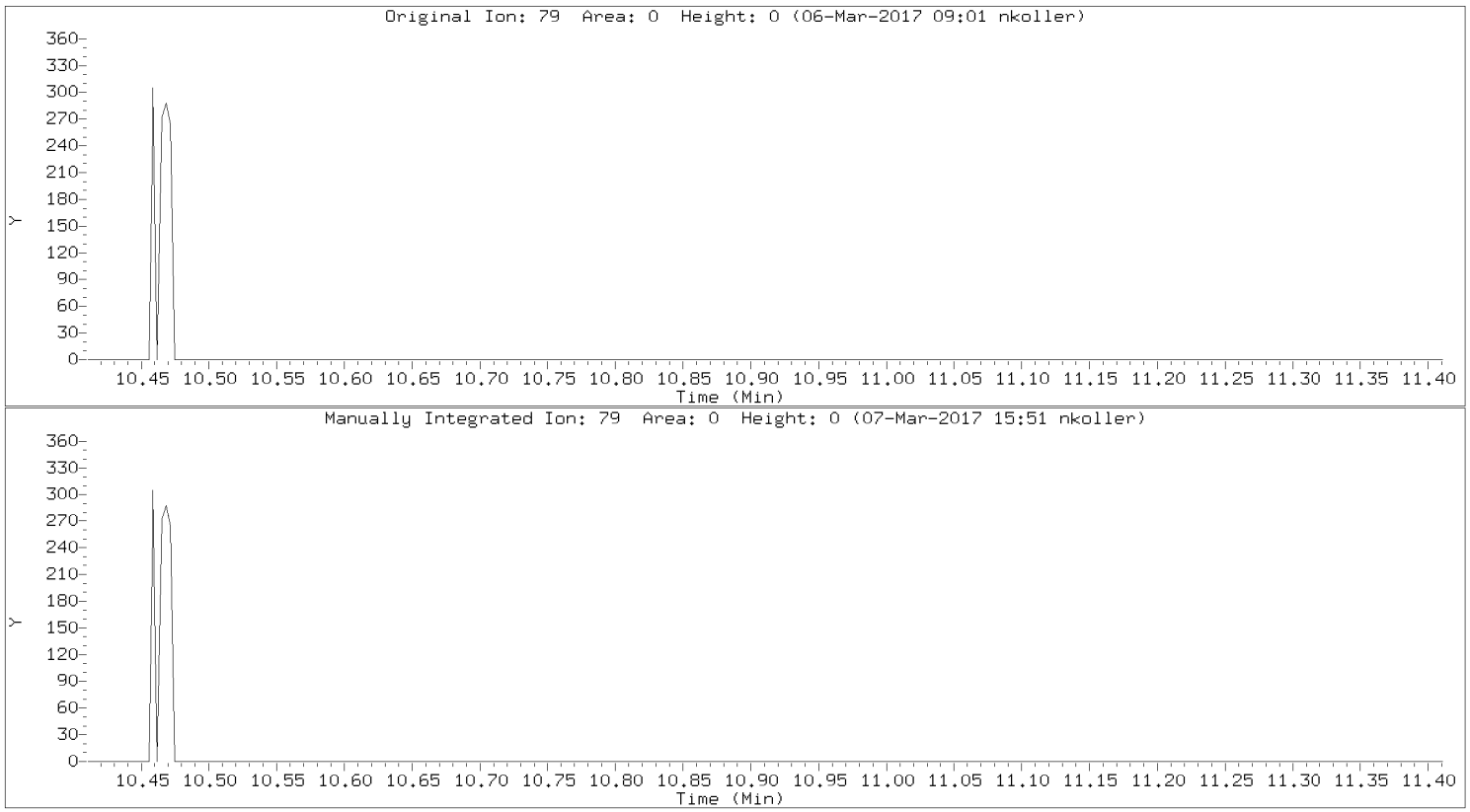






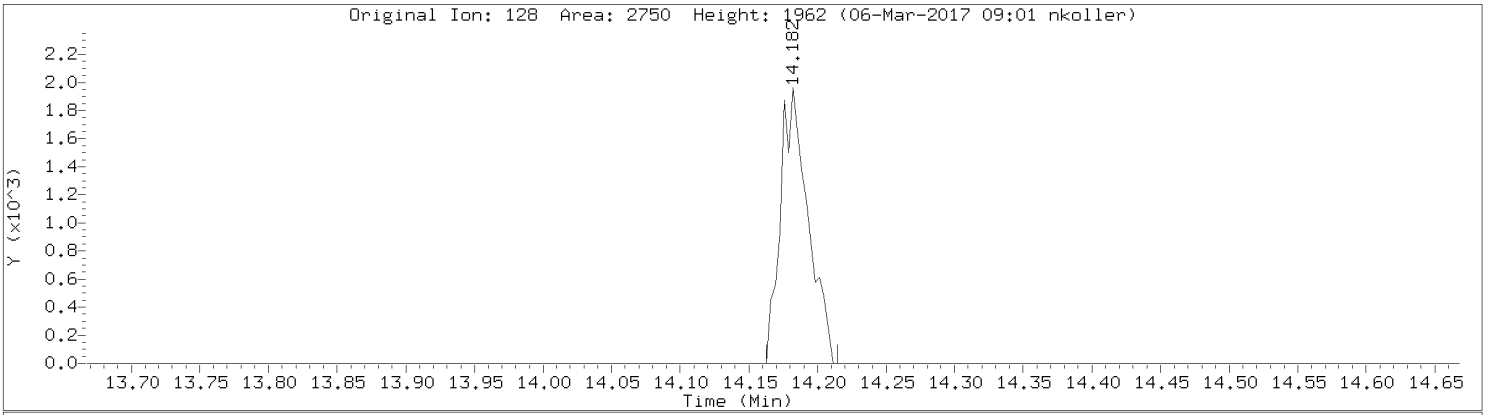


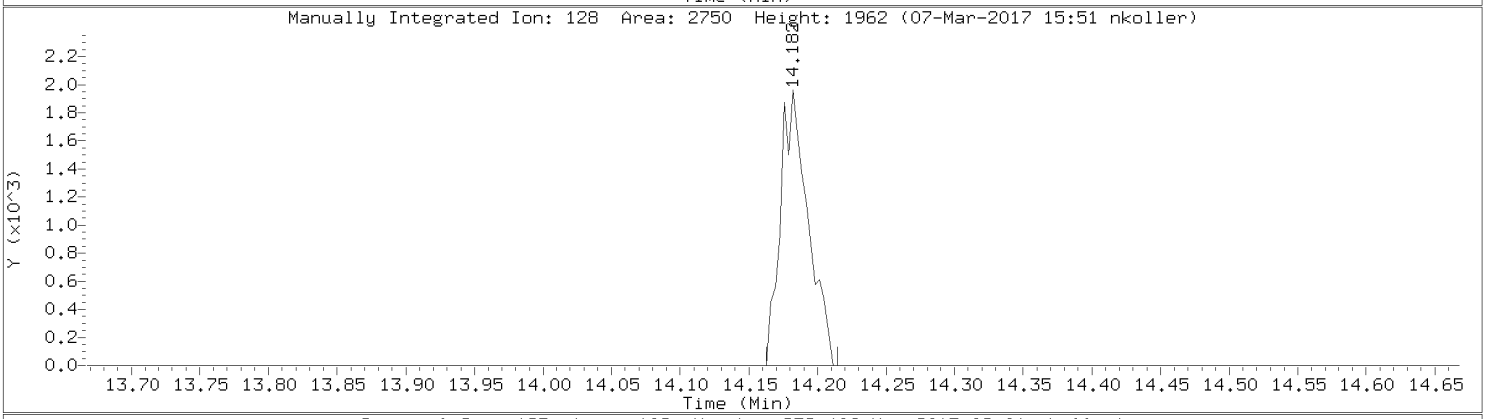
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

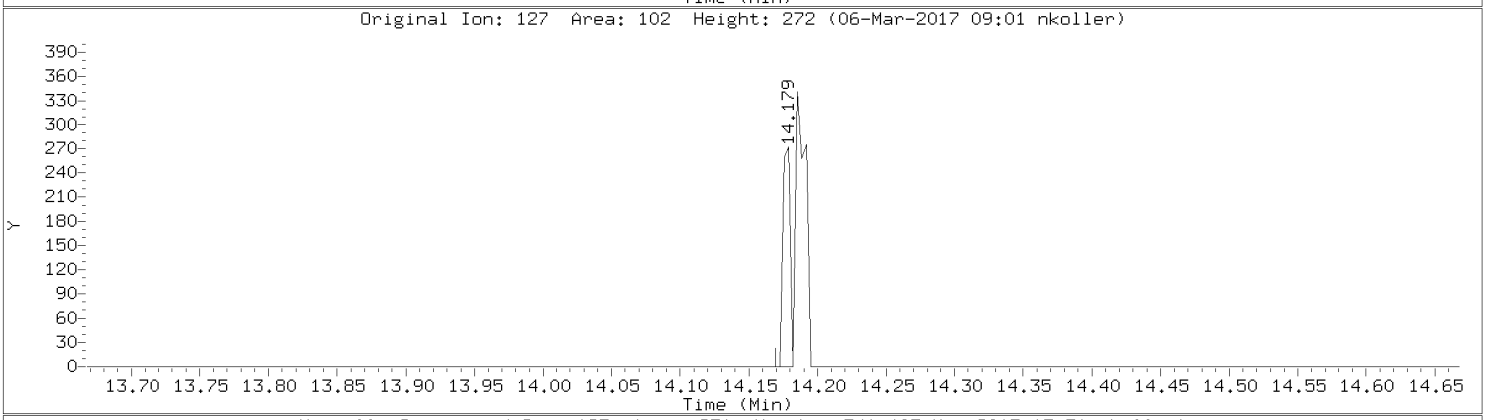


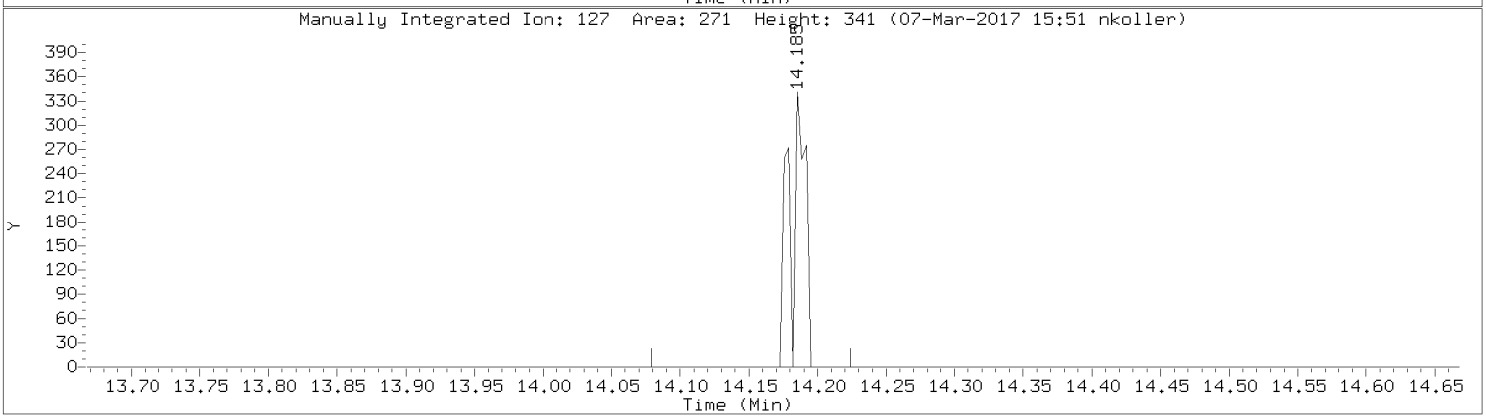
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

Compound: Naphthalene
CAS Number: 91-20-3



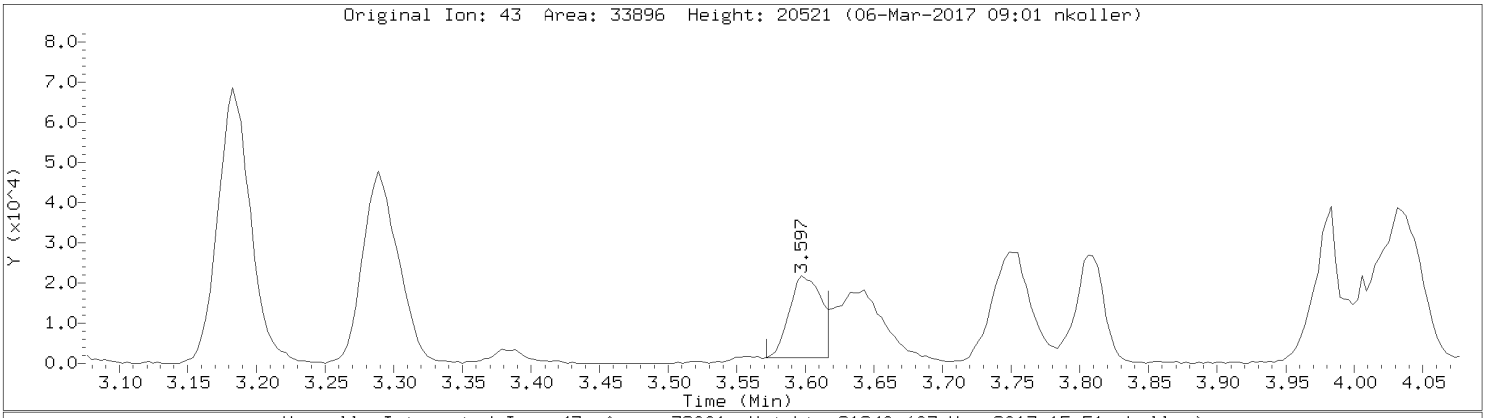


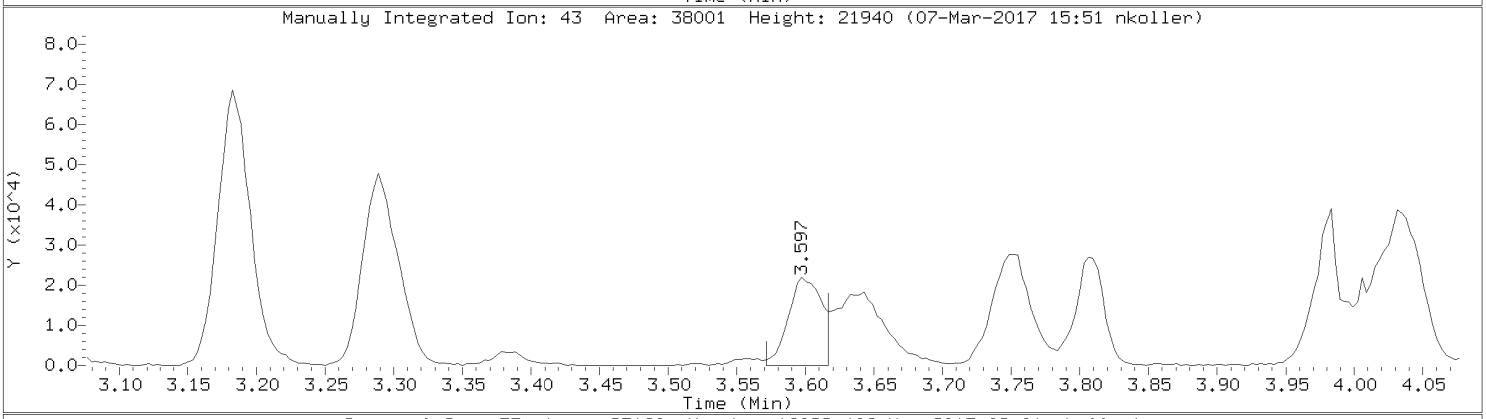


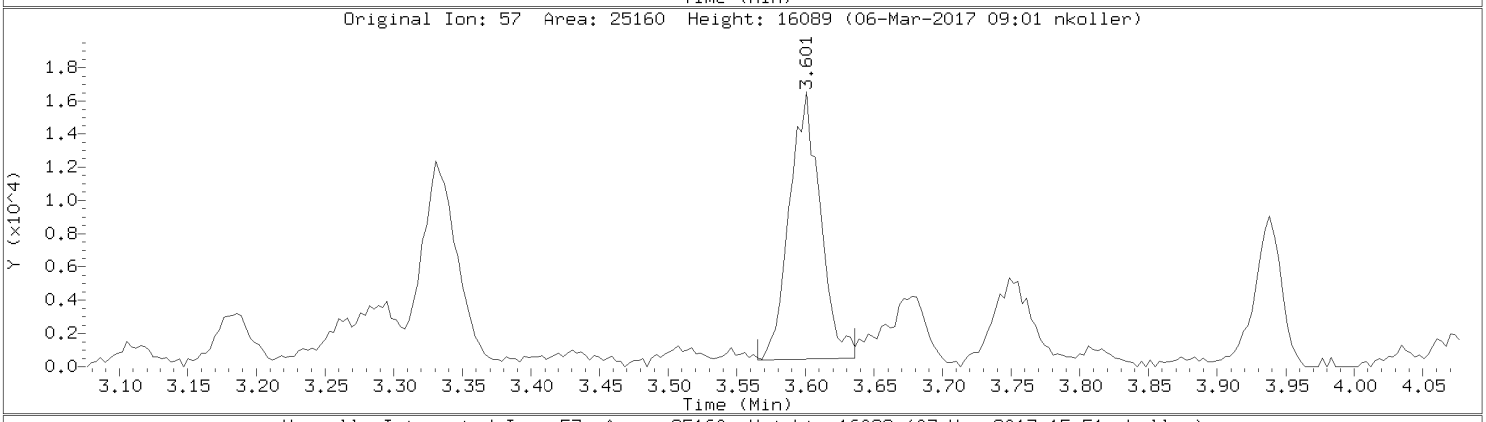


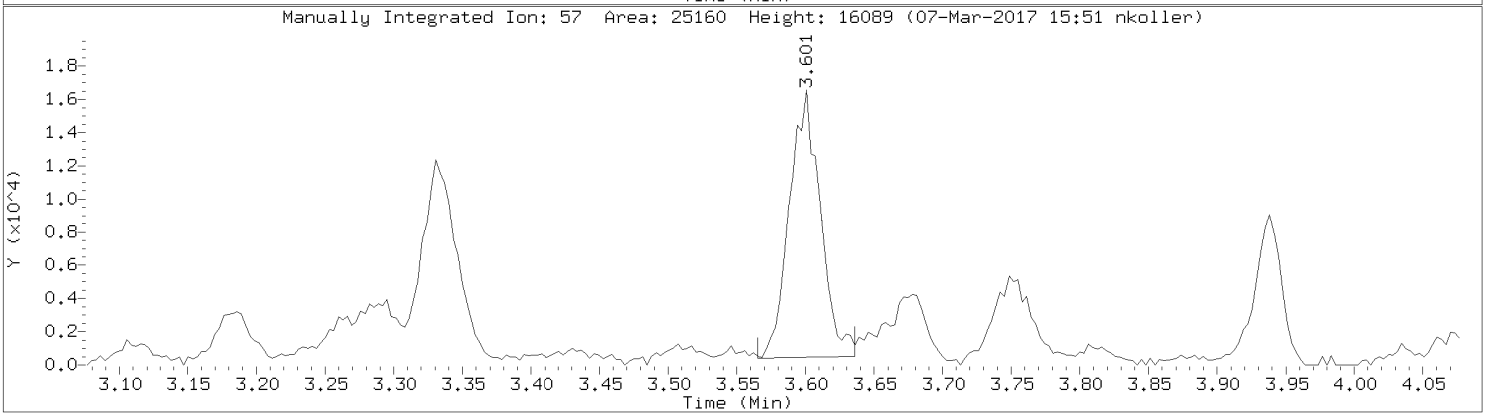
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

Compound: Isopentane
CAS Number: 78-78-4

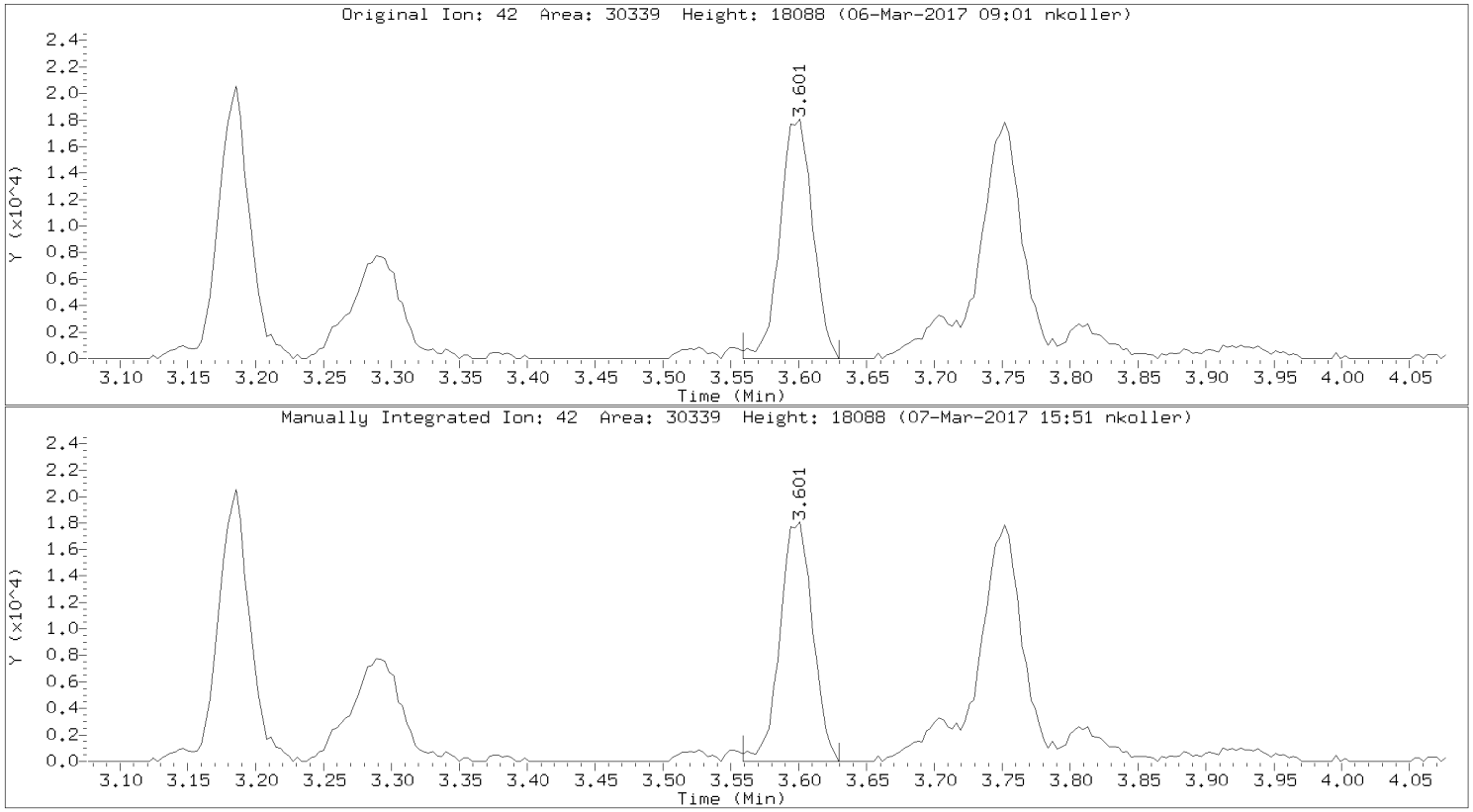






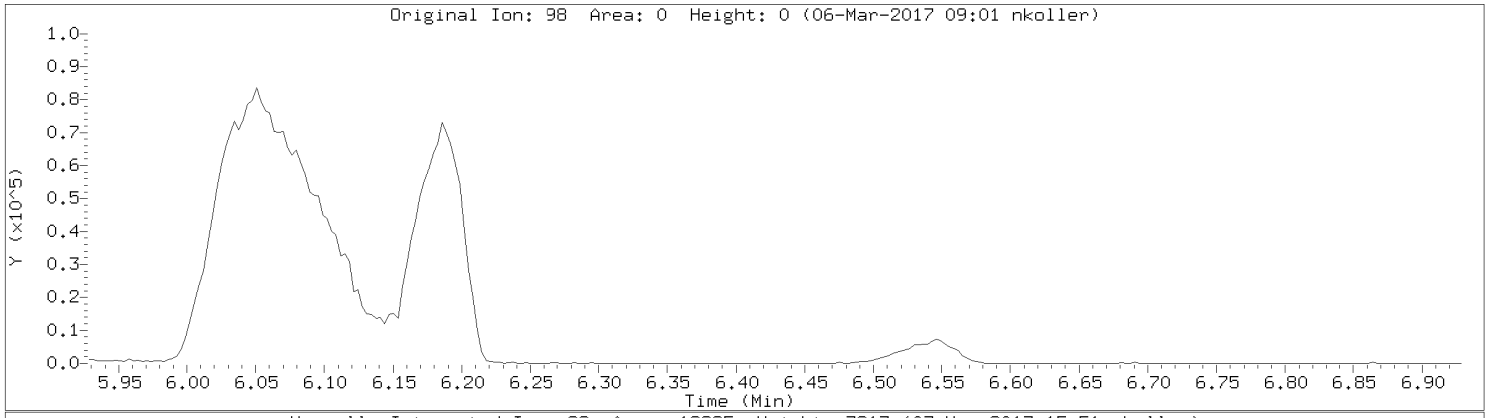


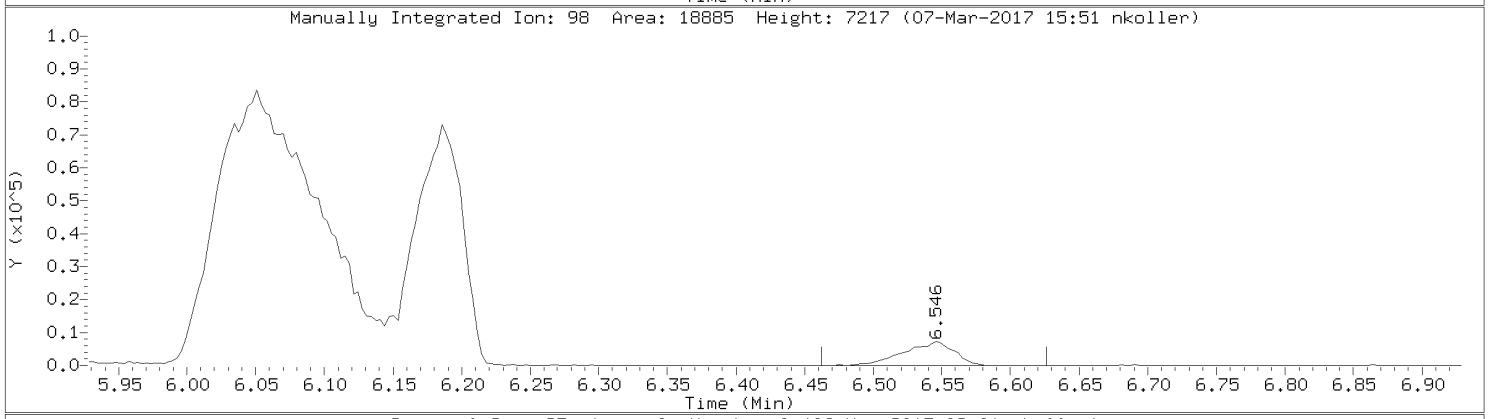
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

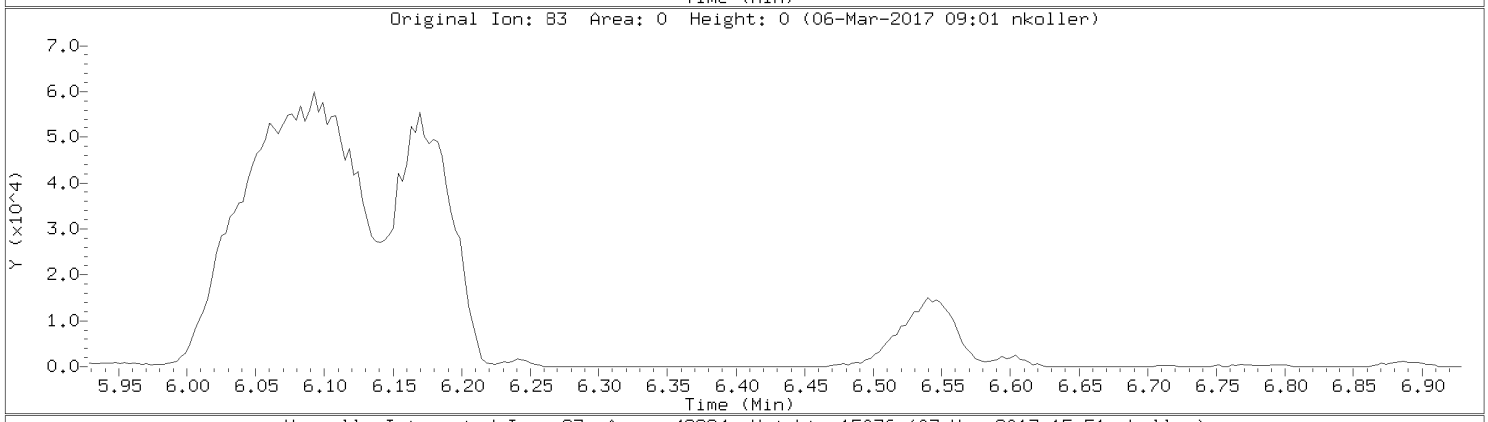


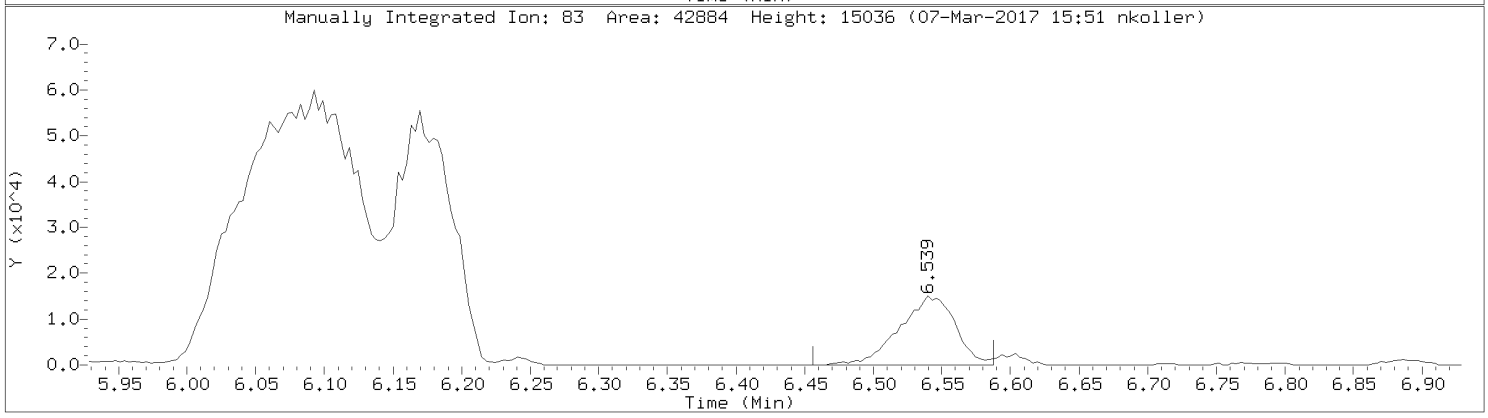
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

Compound: Methylcyclohexane
CAS Number: 108-87-2

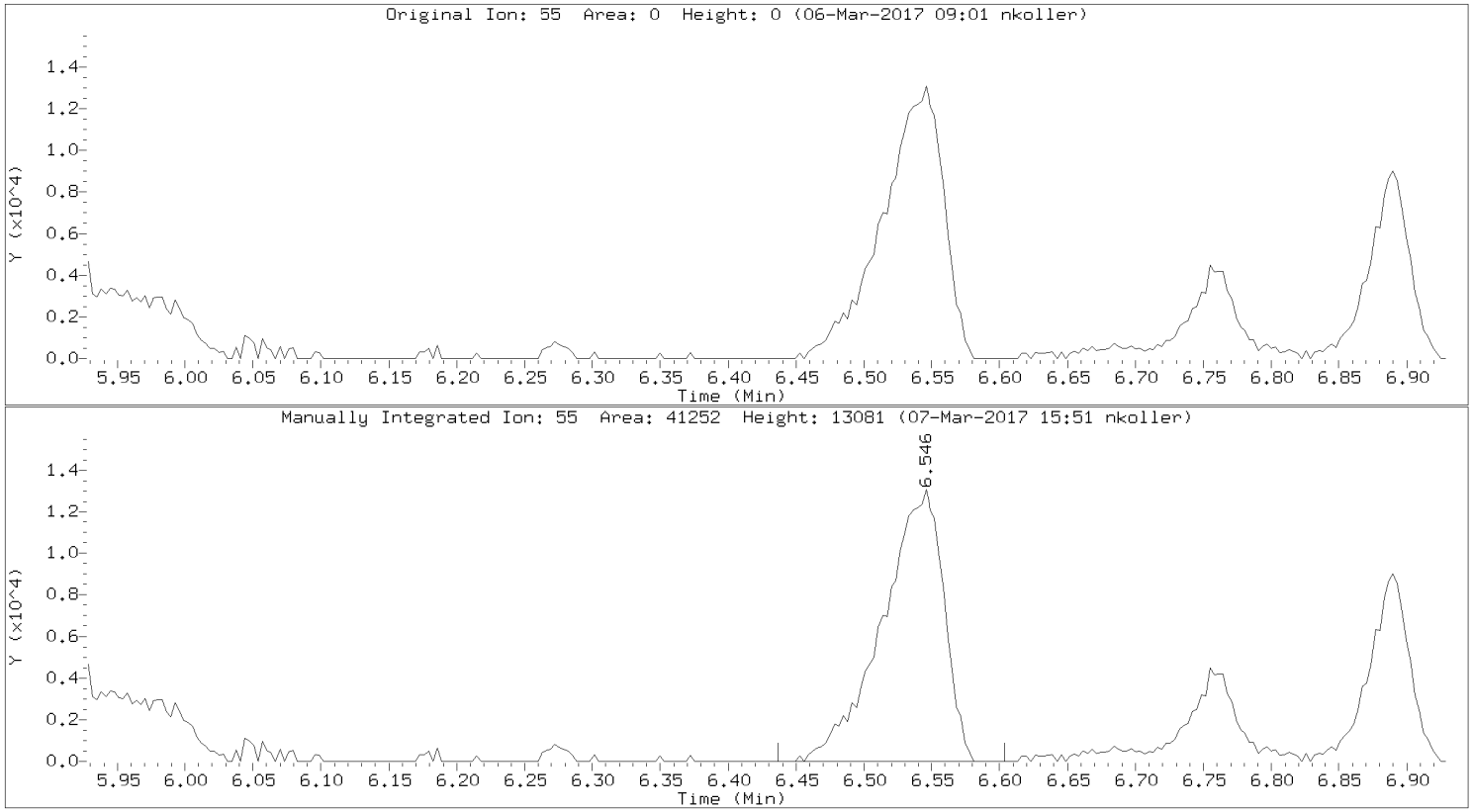






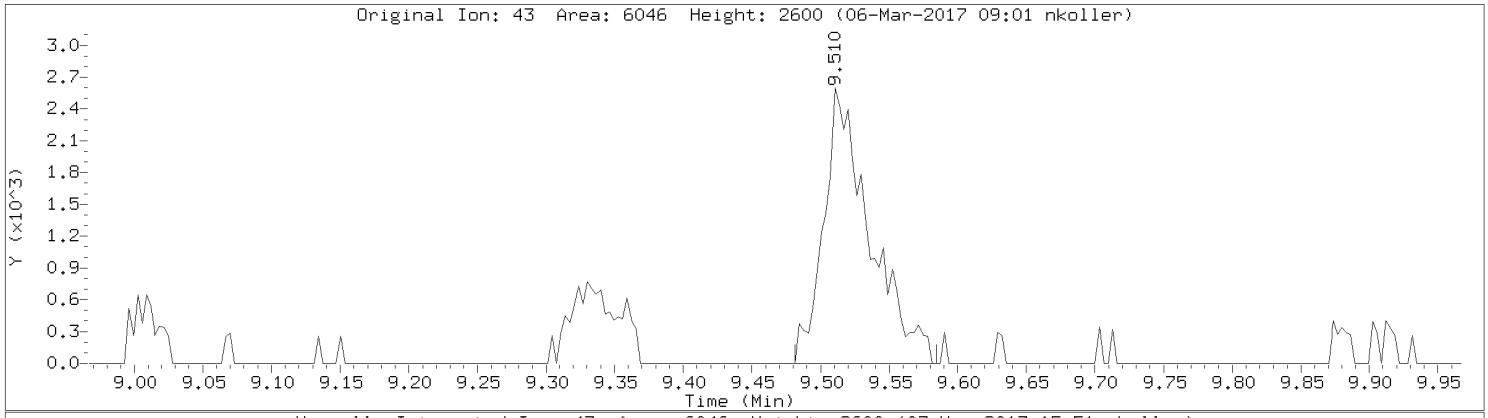


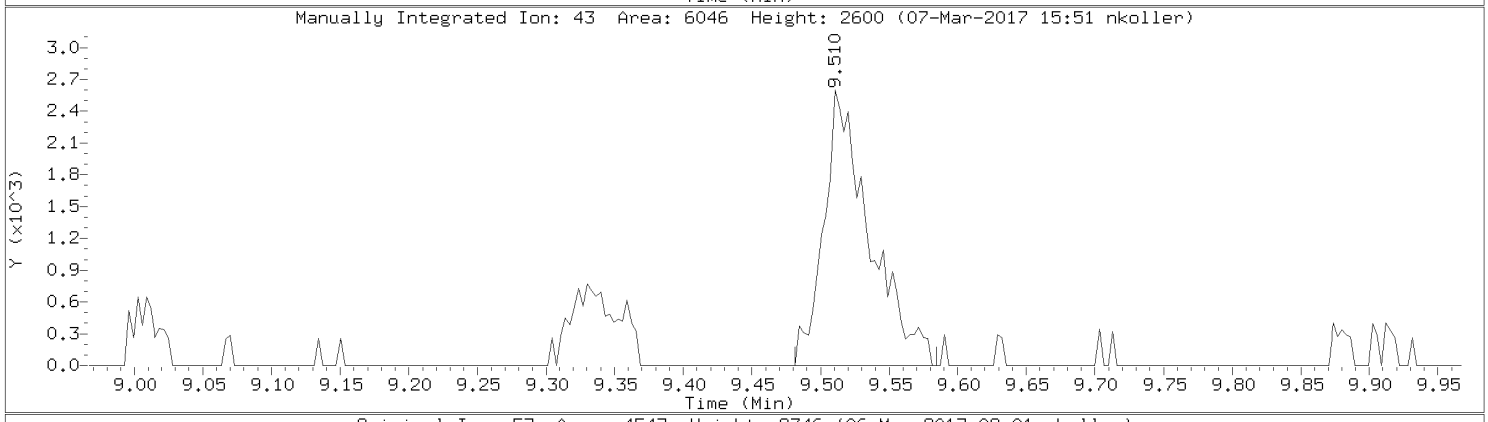
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

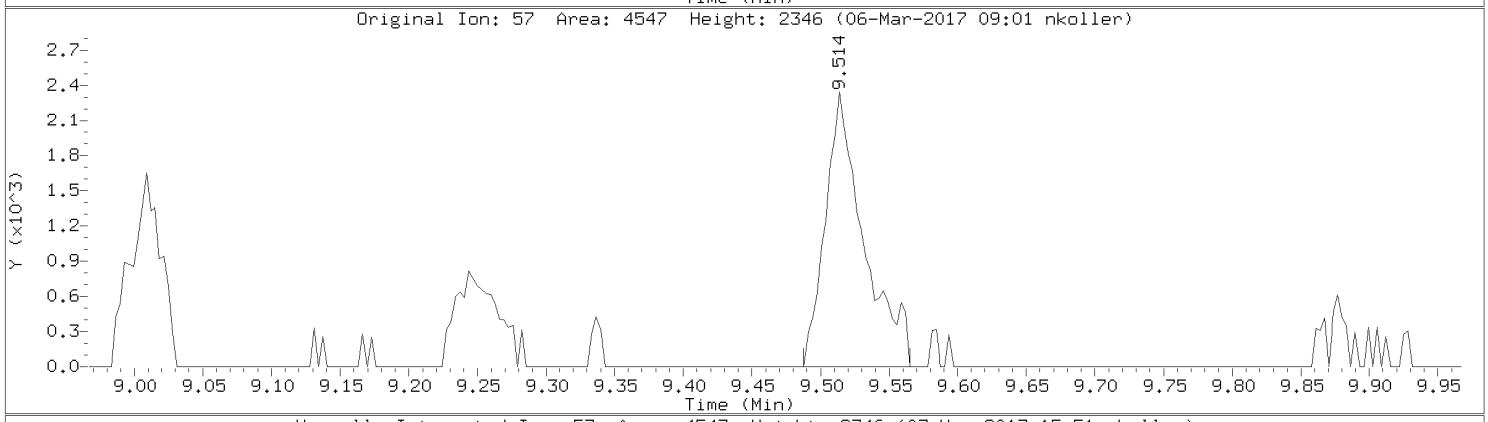


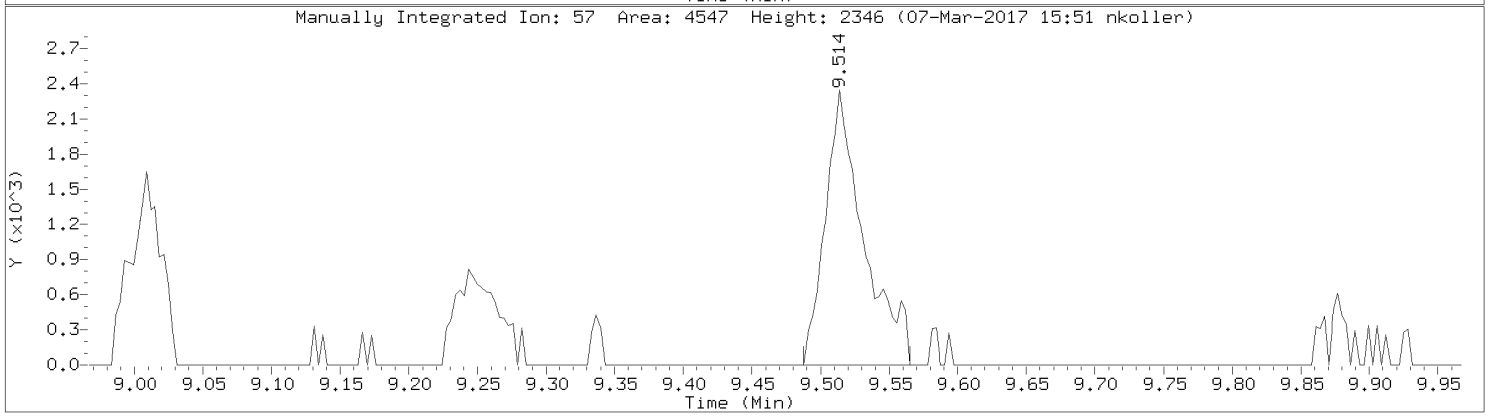
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010

Compound: n-Nonane
CAS Number: 111-84-2

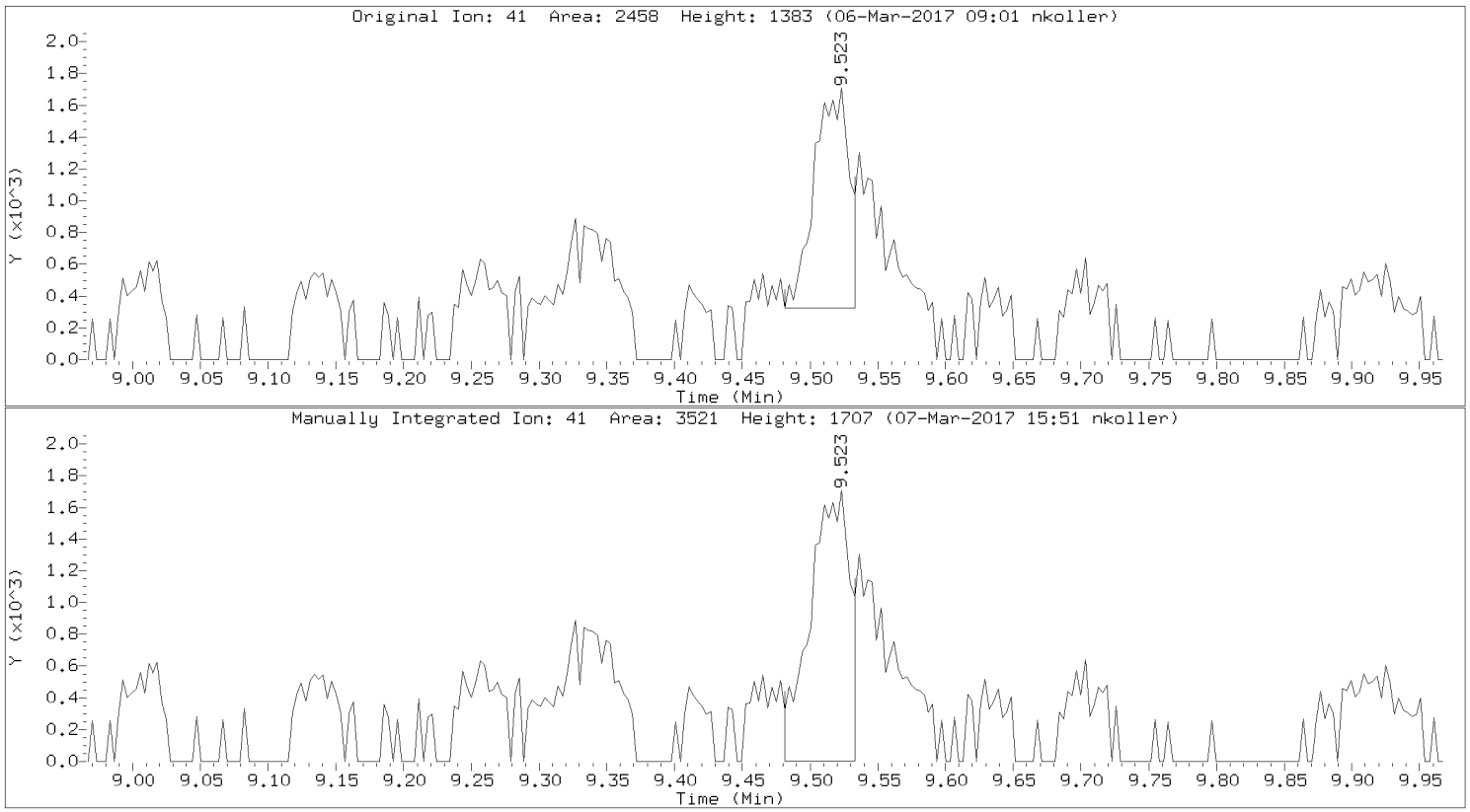








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06429.D
Injection Date: 05-MAR-2017 23:41
Instrument: 10airB.i
Lab Sample ID: 10380193010



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06515.D
Report Date: 07-Mar-2017 15:55

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06515.D
Lab Smp Id: 10380193010
Inj Date : 06-MAR-2017 15:30
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 15:53 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 15
Dil Factor: 8960.00000
Integrator: HP RTE Compound Sublist: dil2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	8960.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	22 Freon 113	101	3.931	3.954	(0.702)	182095	6.77019	60700
	20 1,1-Dichloroethene	61	3.889	3.912	(0.695)	1668	0.08052	721(M)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.					
	37 cis-1,2-Dichloroethene	96	4.696	4.725	(0.839)	122869	9.46187	84800(Q)
	39 Chloroform	83	4.803	4.841	(0.858)	2264	0.08412	754
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1299167	10.0000	
	51 Trichloroethene	130	5.976	5.989	(1.067)	582138	26.6688	239000
	66 Tetrachloroethene	166	7.982	7.989	(0.924)	86273	2.95822	26500
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	839874	10.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06515.D
Report Date: 07-Mar-2017 15:55

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06515.D
Lab Smp Id: 10380193010
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

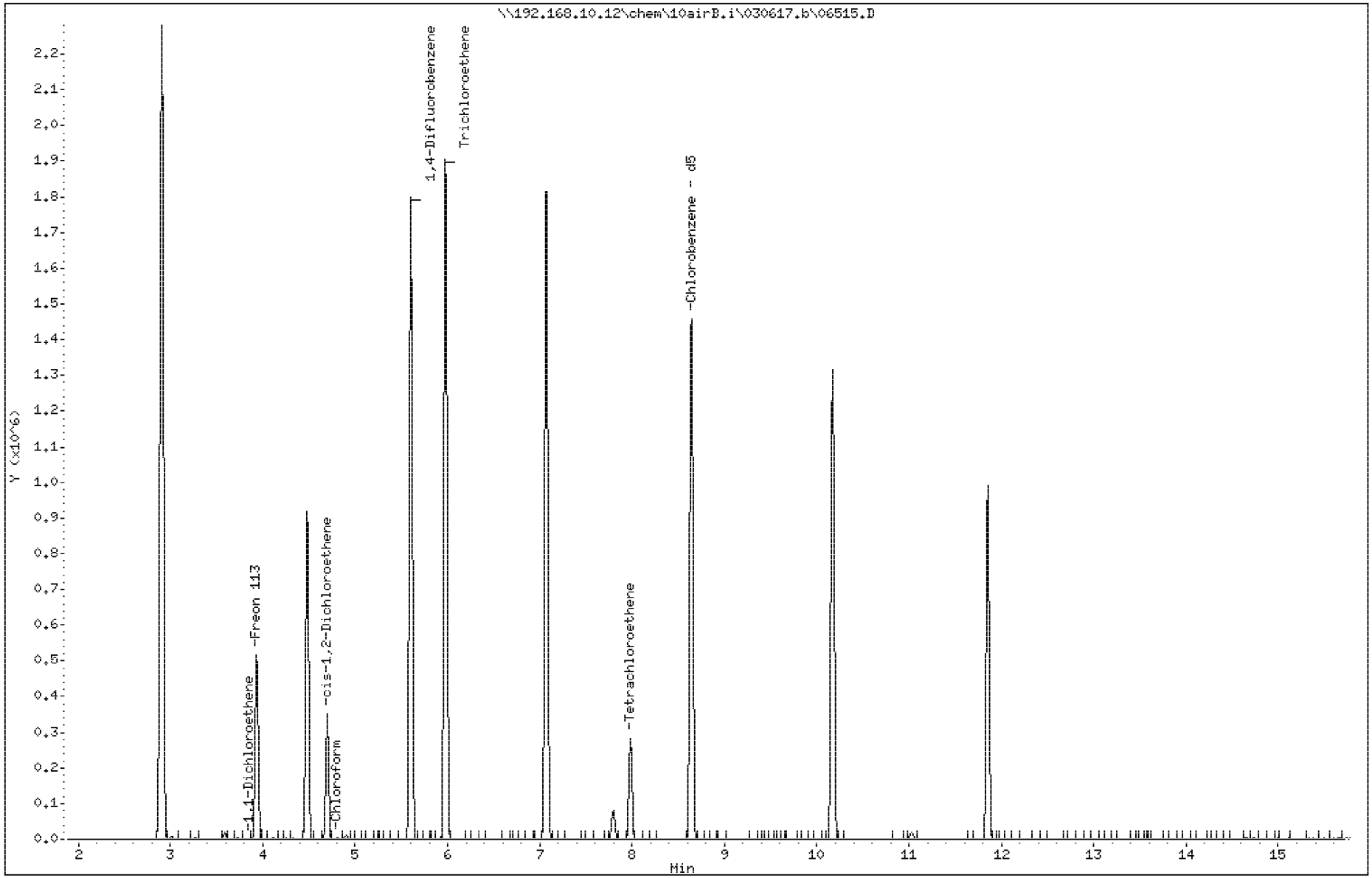
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1299167	-8.13
67 Chlorobenzene - d	951026	570616	1331436	839874	-11.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06515.D
Date : 06-MAR-2017 15:30
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06515.D

Date : 06-MAR-2017 15:30

Client ID:

Instrument: 10airB.i

Sample Info:

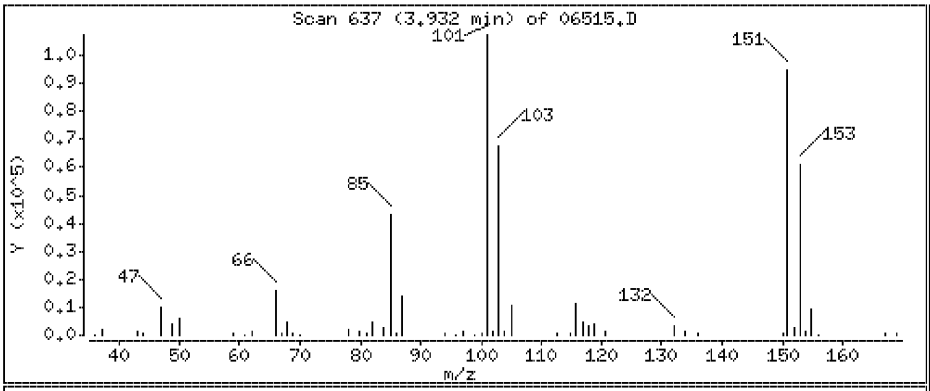
Operator: NCK

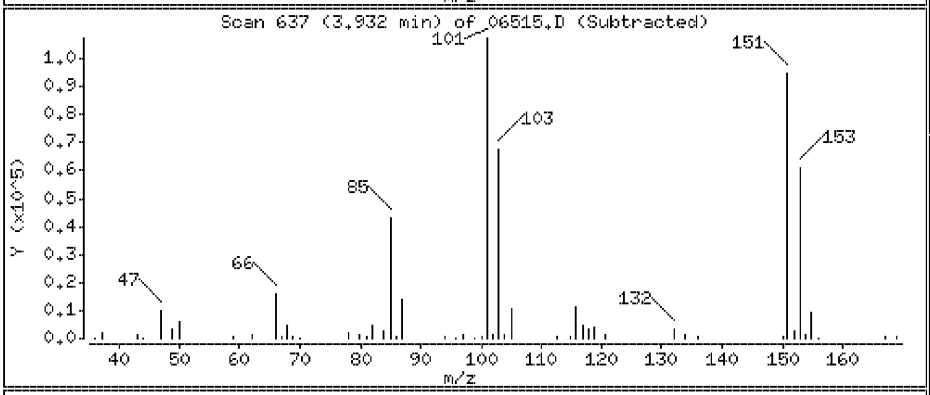
Column phase: J&W DB-5

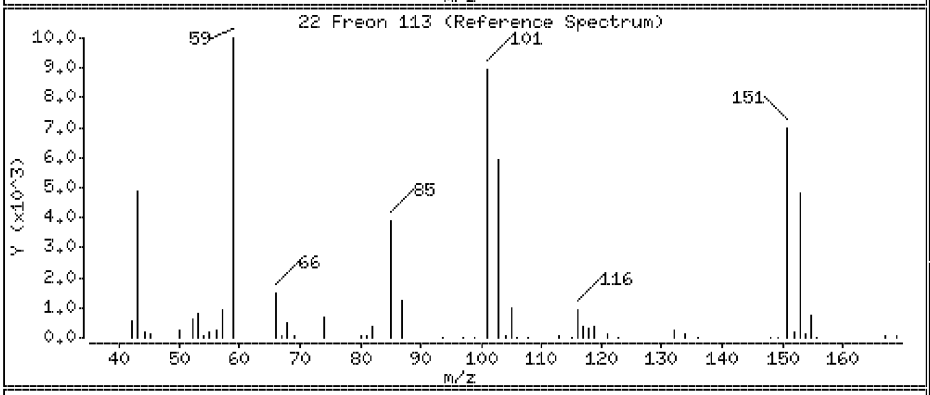
Column diameter: 0.32

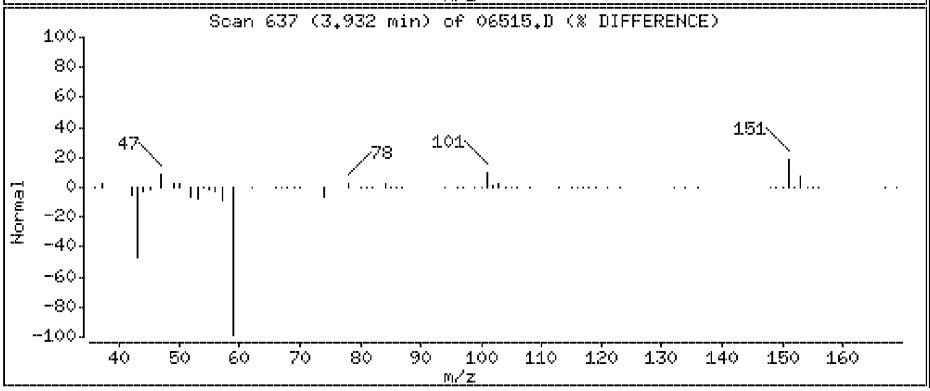
22 Freon 113

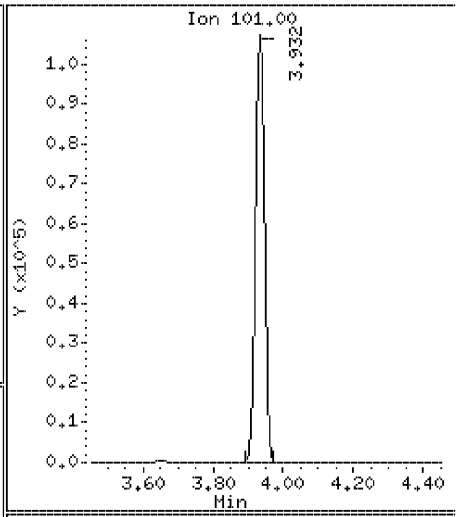
Concentration: 60700 ppbv

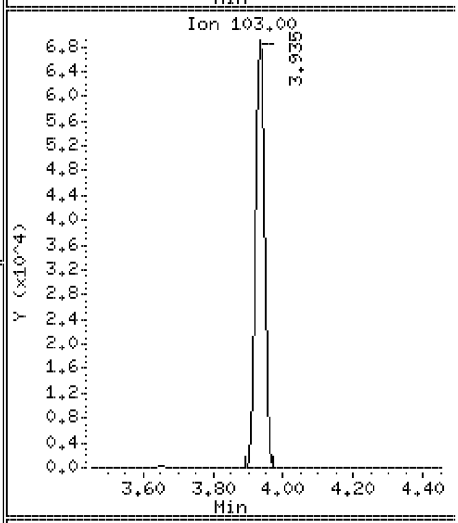


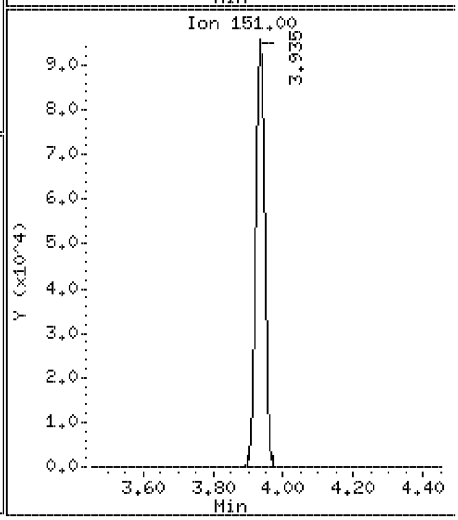












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06515.D

Date : 06-MAR-2017 15:30

Client ID:

Instrument: 10airB.i

Sample Info:

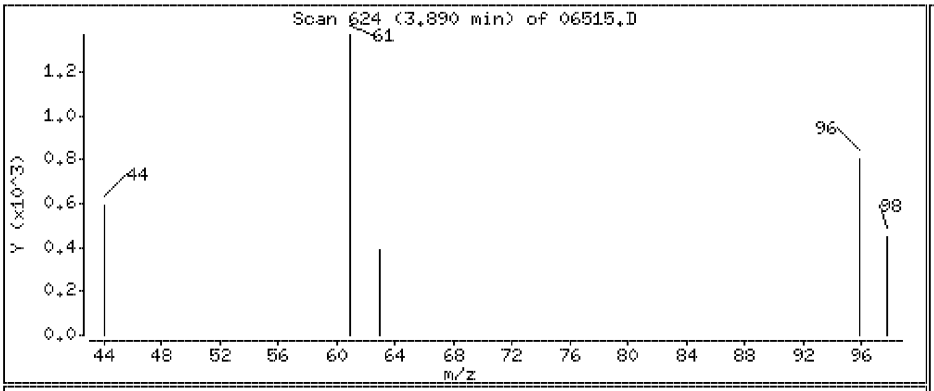
Operator: NCK

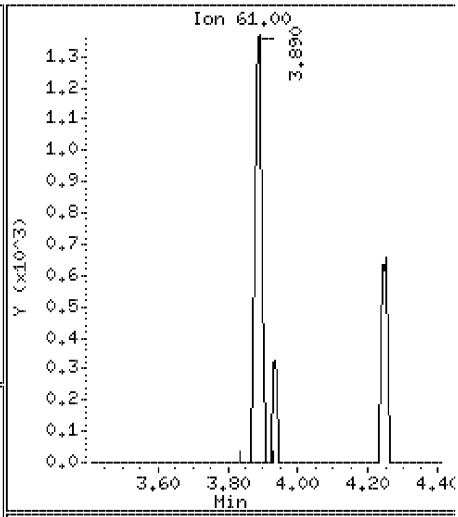
Column phase: J&W DB-5

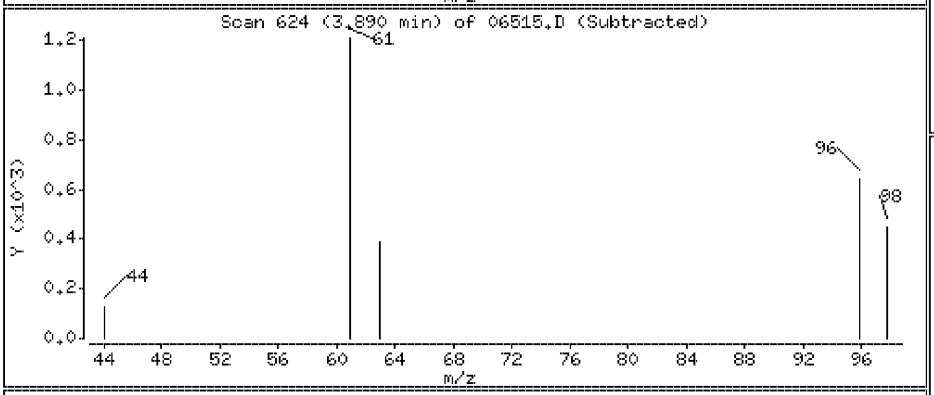
Column diameter: 0.32

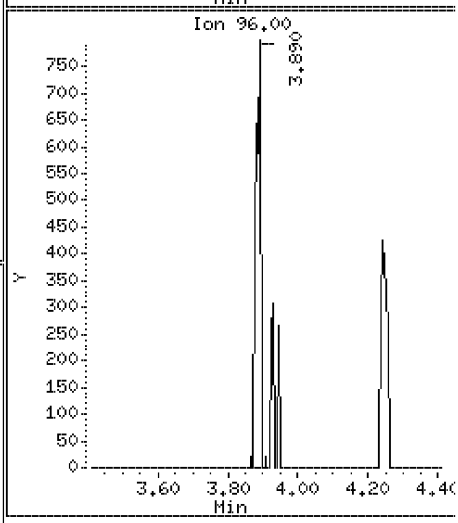
20 1,1-Dichloroethene

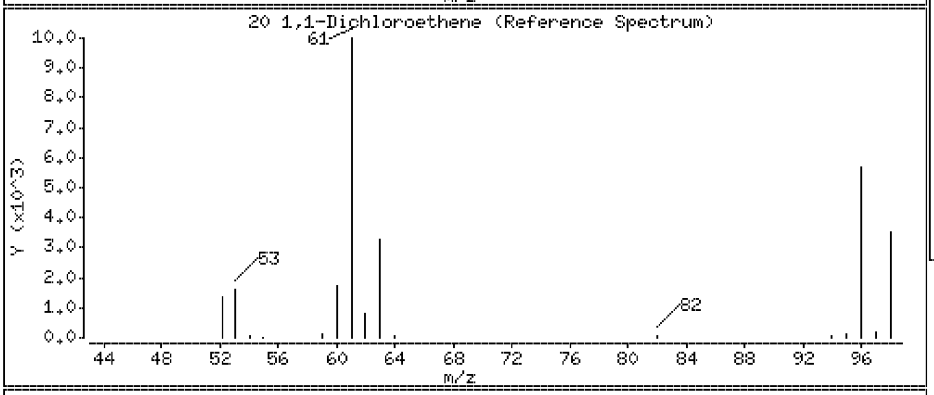
Concentration: 721 ppbv

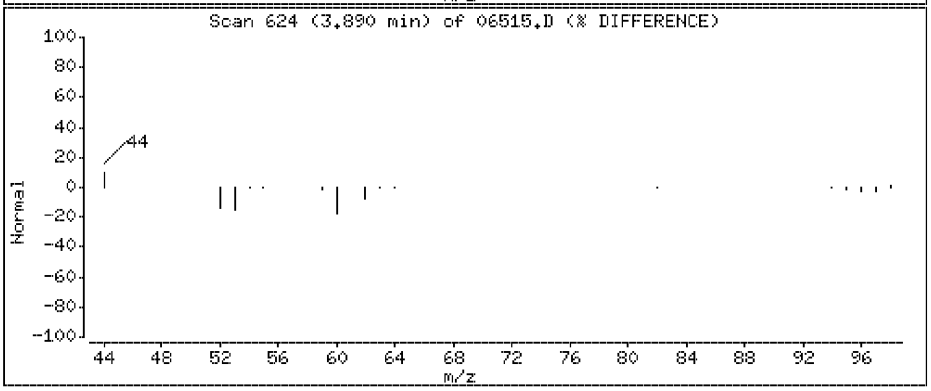












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06515.D

Date : 06-MAR-2017 15:30

Client ID:

Instrument: 10airB.i

Sample Info:

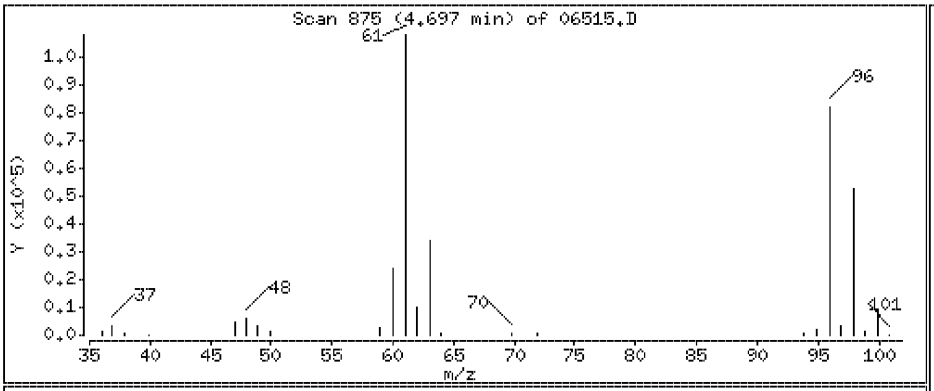
Operator: NCK

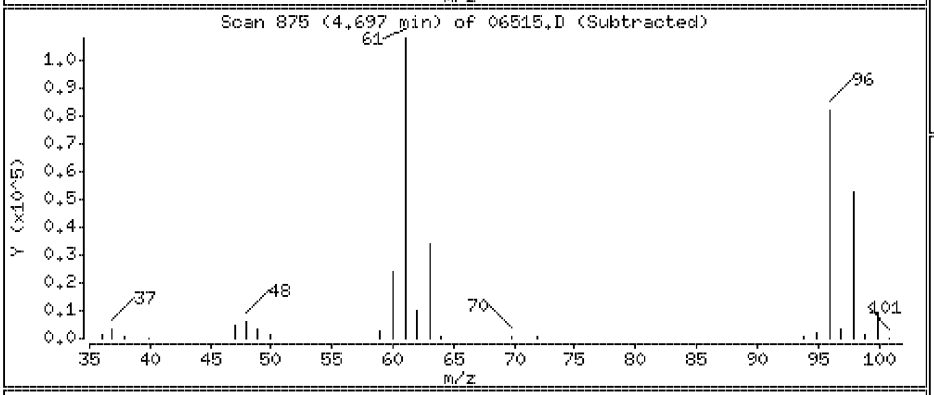
Column phase: J&W DB-5

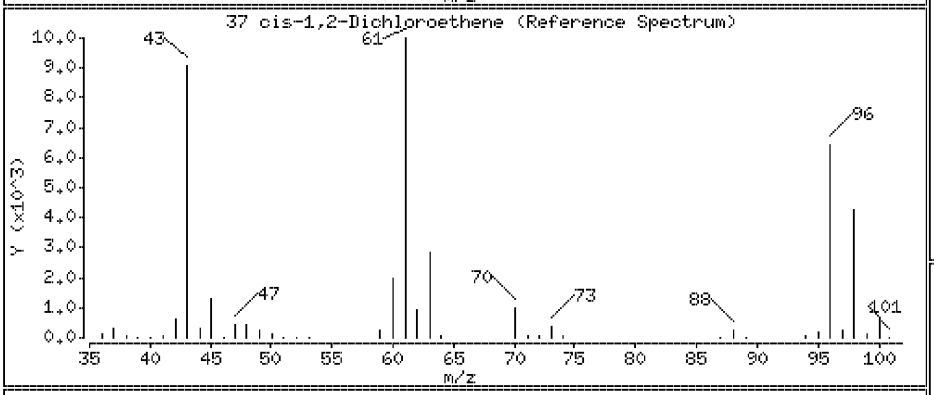
Column diameter: 0.32

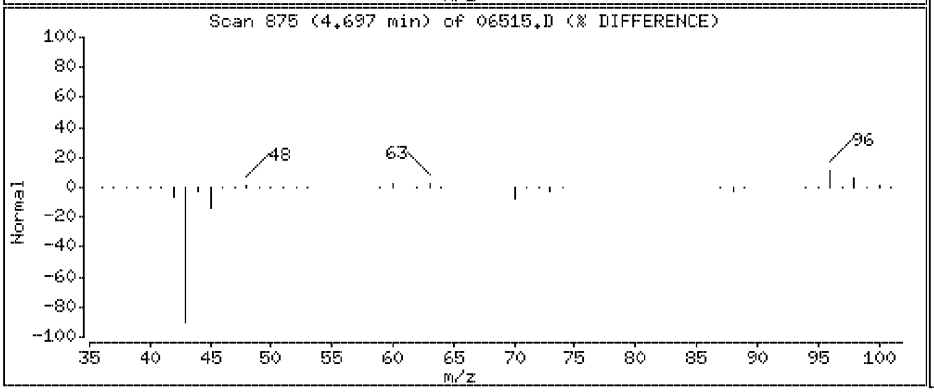
37 cis-1,2-Dichloroethene

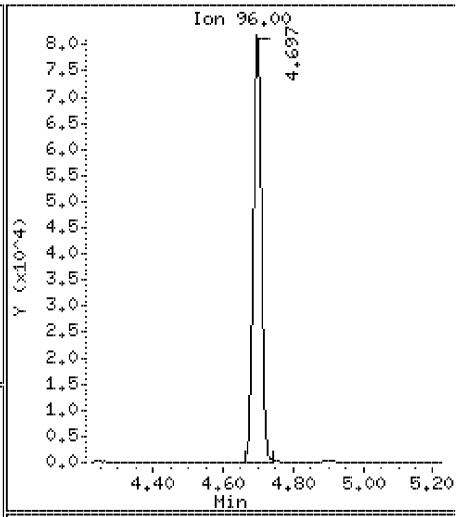
Concentration: 84800 ppbv

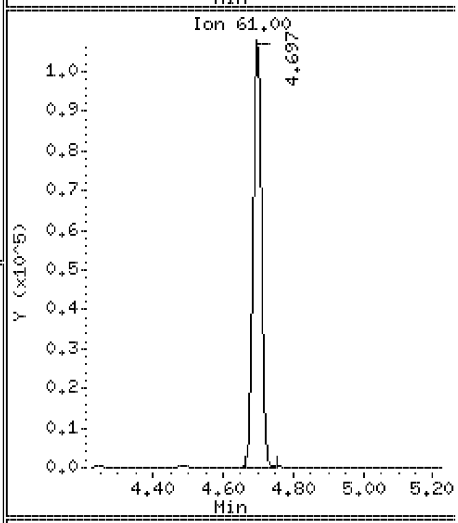


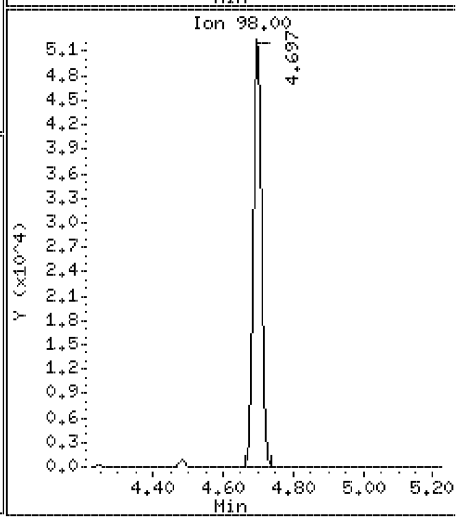












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06515.D

Date : 06-MAR-2017 15:30

Client ID:

Instrument: 10airB.i

Sample Info:

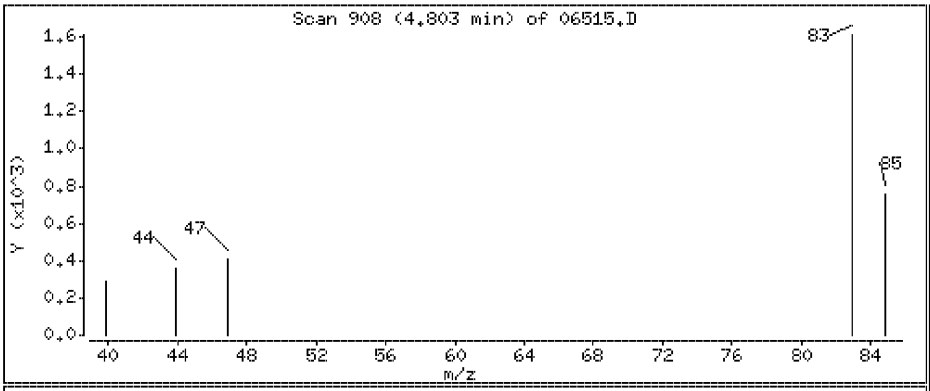
Operator: NCK

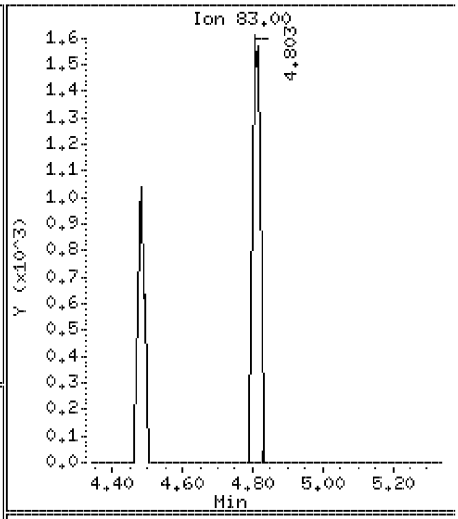
Column phase: J&W DB-5

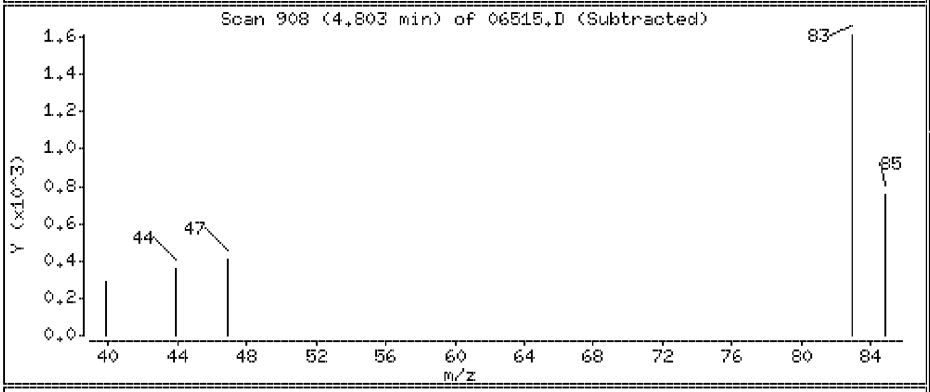
Column diameter: 0.32

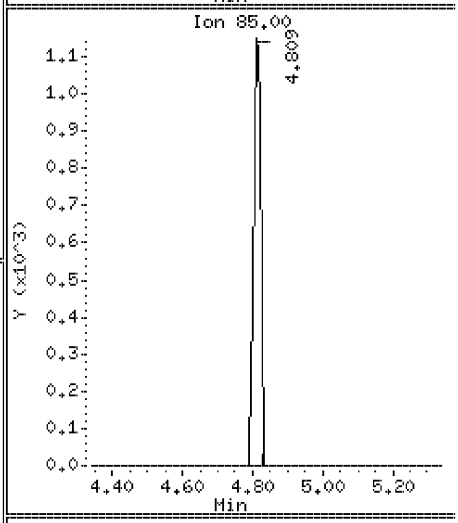
39 Chloroform

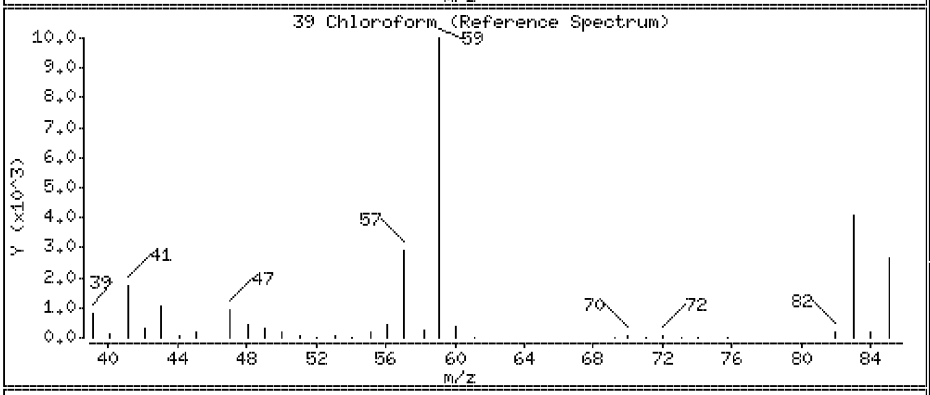
Concentration: 754 ppbv

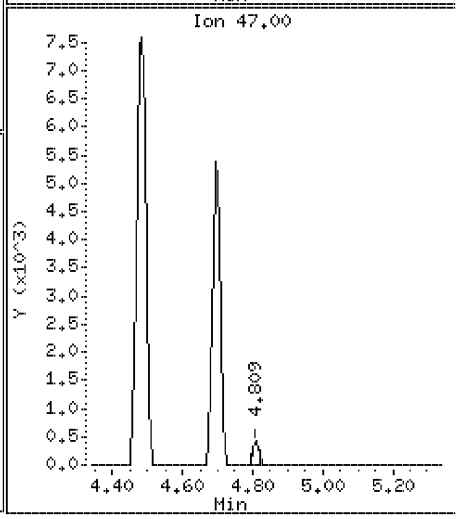


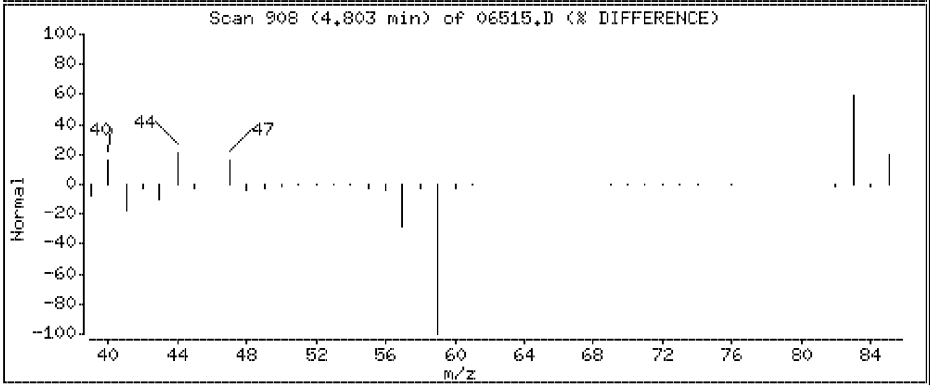












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06515.D

Date : 06-MAR-2017 15:30

Client ID:

Instrument: 10airB.i

Sample Info:

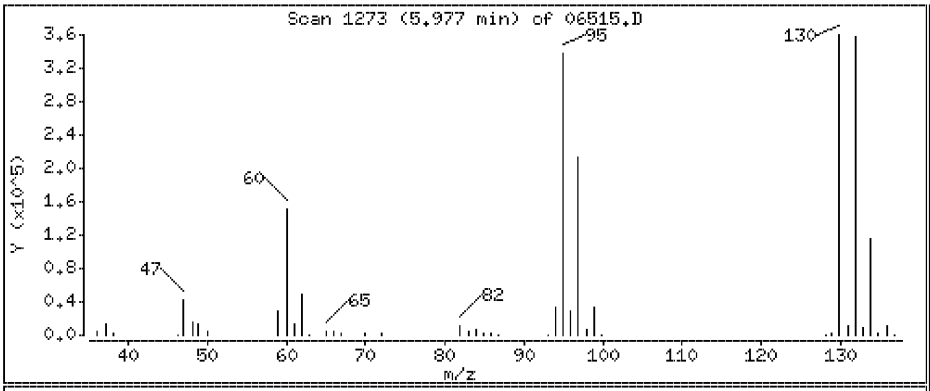
Operator: NCK

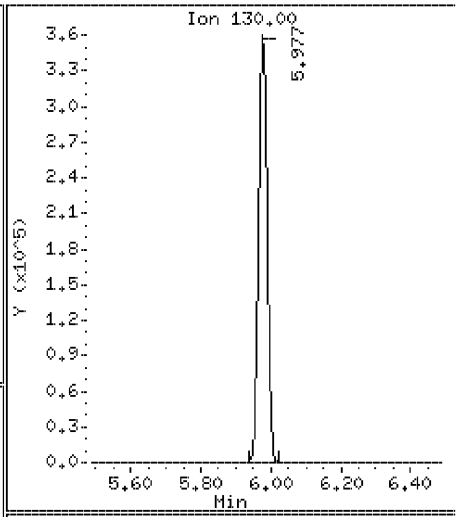
Column phase: J&W DB-5

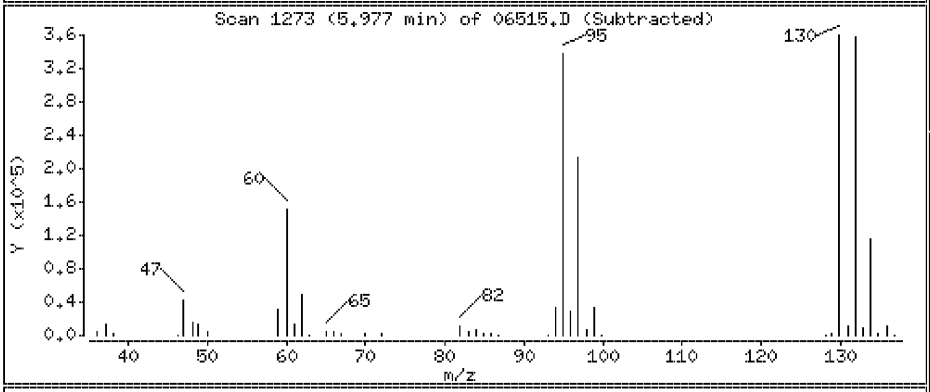
Column diameter: 0.32

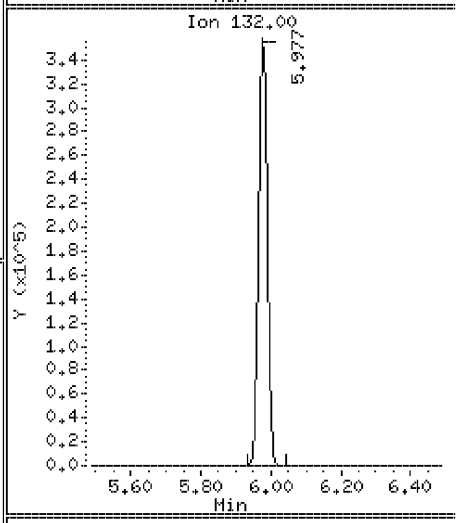
51 Trichloroethene

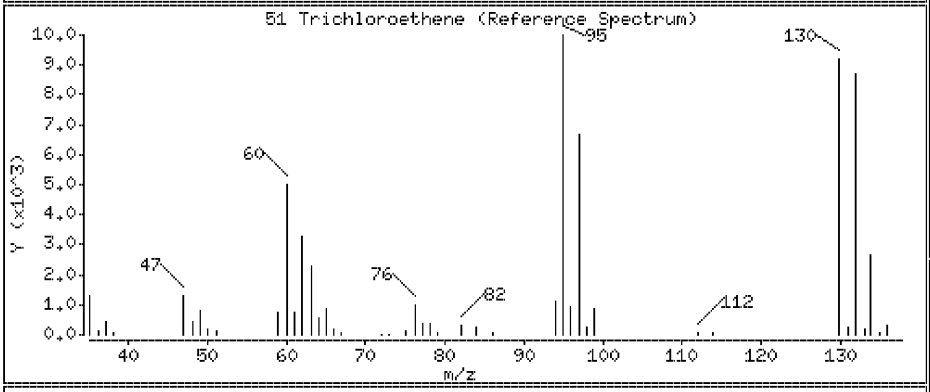
Concentration: 239000 ppbv

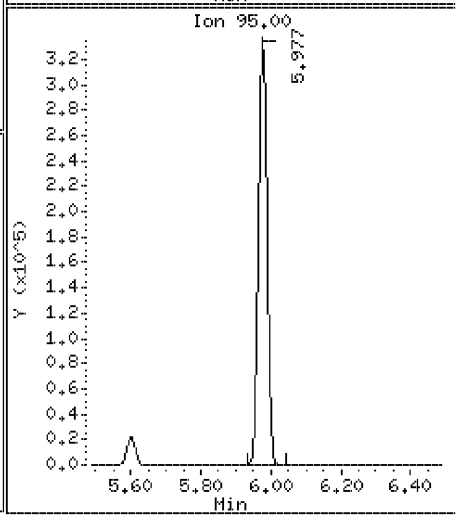


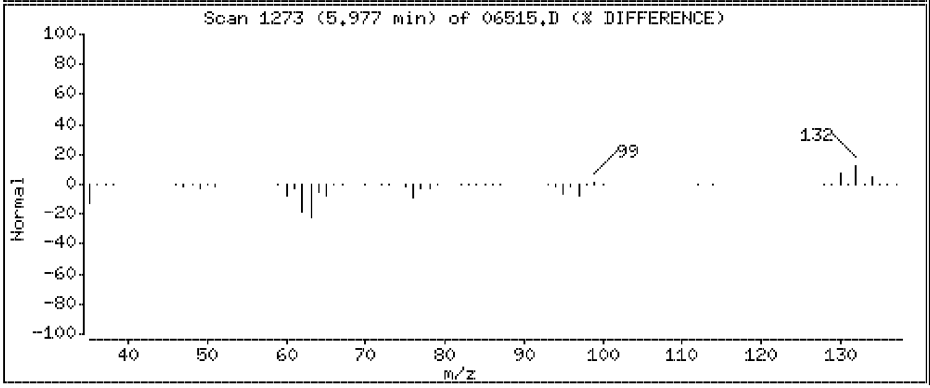












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06515.D

Date : 06-MAR-2017 15:30

Client ID:

Instrument: 10airB.i

Sample Info:

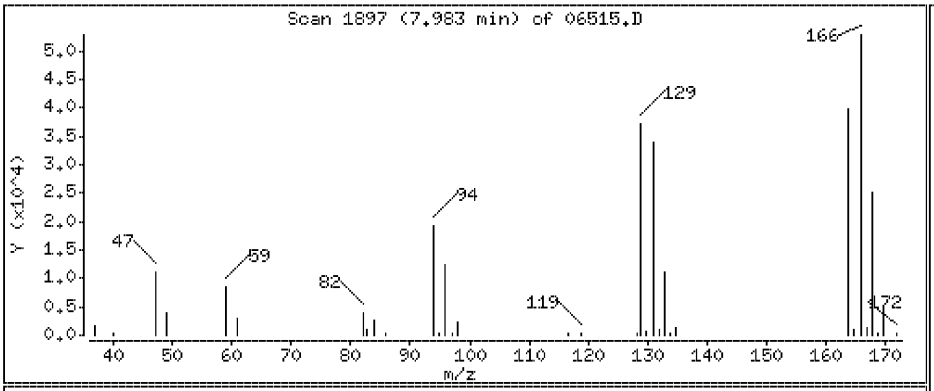
Operator: NCK

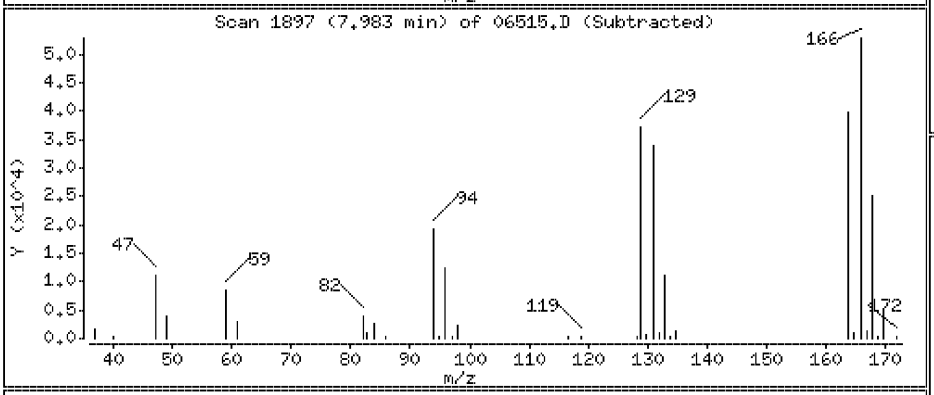
Column phase: J&W DB-5

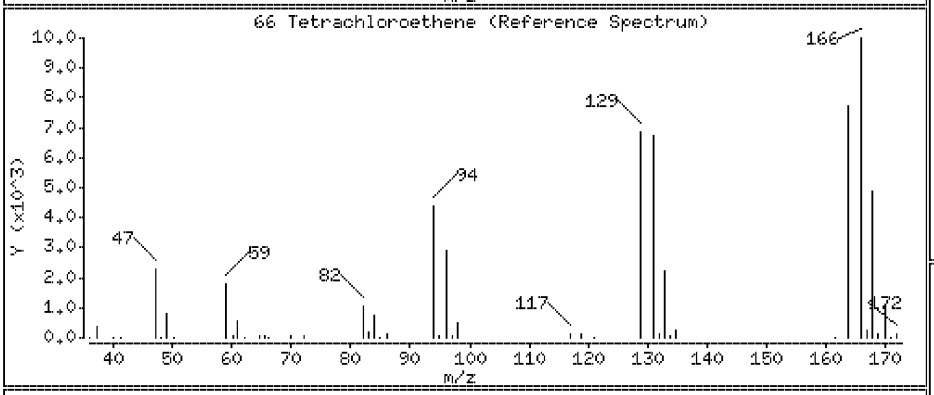
Column diameter: 0.32

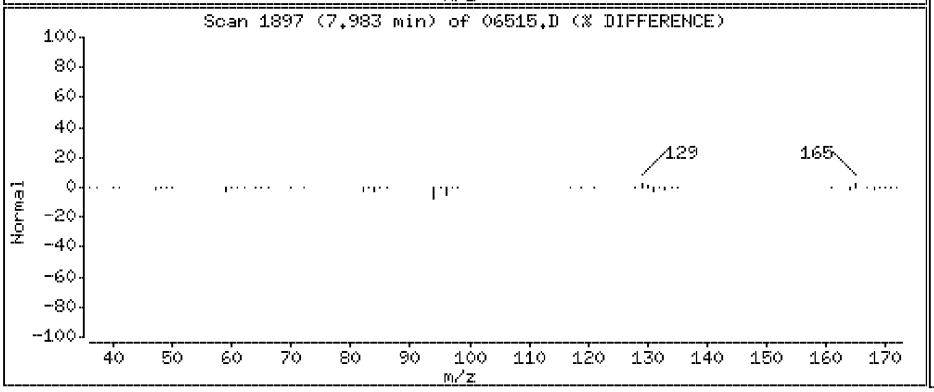
66 Tetrachloroethene

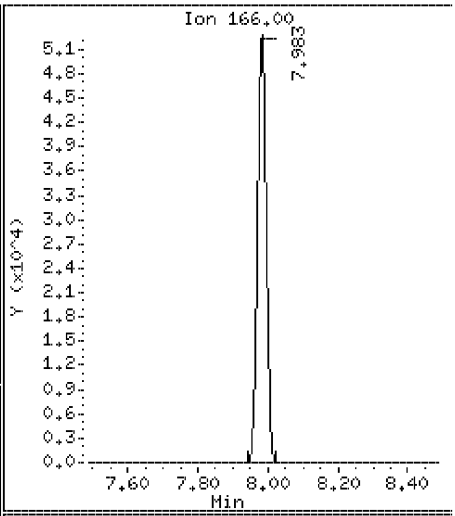
Concentration: 26500 ppbv

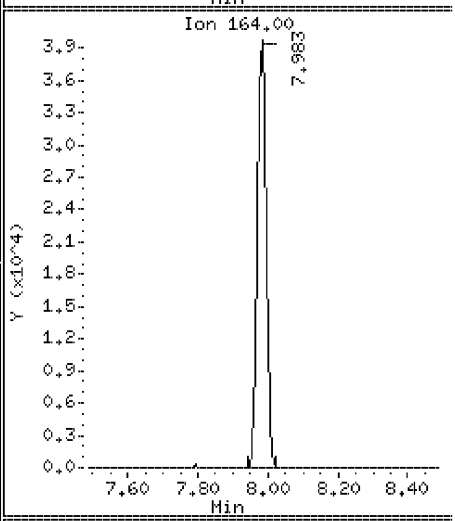


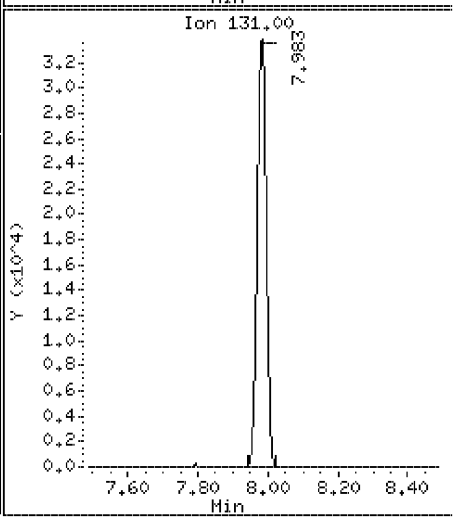












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06514.D
Injection Date: 06-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: 10380193012
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_40_20170223 **Lab ID: 10380193010** Collected: 02/23/17 12:10 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methylcyclohexane	**11.8**	ug/m3	1.4	0.42	1.75		03/05/17 23:41	108-87-2	
Methylene Chloride	**<0.95**	ug/m3	6.2	0.95	1.75		03/05/17 23:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/05/17 23:41	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/05/17 23:41	1634-04-4	
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/05/17 23:41	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/05/17 23:41	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/05/17 23:41	79-34-5	
Tetrachloroethene	**6760**	ug/m3	1.2	0.49	1.75		03/05/17 23:41	127-18-4	
Tetrachloroethene	**183000**	ug/m3	6170	2490	8960		03/06/17 15:30	127-18-4	A3
Toluene	**17.8**	ug/m3	1.3	0.27	1.75		03/05/17 23:41	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/05/17 23:41	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/05/17 23:41	71-55-6	
1,1,2-Trichloroethane	**94.1**	ug/m3	0.96	0.43	1.75		03/05/17 23:41	79-00-5	
Trichloroethene	**11700**	ug/m3	0.96	0.48	1.75		03/05/17 23:41	79-01-6	
Trichloroethene	**1310000**	ug/m3	4930	2470	8960		03/06/17 15:30	79-01-6	A3
Trichlorofluoromethane	**140**	ug/m3	2.0	0.23	1.75		03/05/17 23:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	**2110**	ug/m3	2.8	0.53	1.75		03/05/17 23:41	76-13-1	
1,1,2-Trichlorotrifluoroethane	**473000**	ug/m3	14300	2700	8960		03/06/17 15:30	76-13-1	A3
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/05/17 23:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/05/17 23:41	108-67-8	
Vinyl chloride	**76.2**	ug/m3	0.46	0.34	1.75		03/05/17 23:41	75-01-4	
m&p-Xylene	**7.4**	ug/m3	3.1	1.4	1.75		03/05/17 23:41	179601-23-1	
o-Xylene	**2.2**	ug/m3	1.5	0.61	1.75		03/05/17 23:41	95-47-6	

Sample: VP-9_50_20170223 **Lab ID: 10380193011** Collected: 02/23/17 11:56 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**30.5**	ug/m3	4.4	1.5	1.83		03/06/17 00:39	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/06/17 00:39	107-05-1	
Benzene	**3.4**	ug/m3	0.59	0.22	1.83		03/06/17 00:39	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/06/17 00:39	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/06/17 00:39	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/06/17 00:39	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/06/17 00:39	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/06/17 00:39	78-93-3	
Carbon disulfide	**0.68J**	ug/m3	1.2	0.18	1.83		03/06/17 00:39	75-15-0	
Carbon tetrachloride	**1.2**	ug/m3	1.2	0.35	1.83		03/06/17 00:39	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/06/17 00:39	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/06/17 00:39	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/06/17 00:39	75-00-3	
Chloroform	**36.4**	ug/m3	0.91	0.35	1.83		03/06/17 00:39	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/06/17 00:39	74-87-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_50_20170223 **Lab ID: 10380193011** Collected: 02/23/17 11:56 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/06/17 00:39	76-15-3	
Cyclohexane	**5.0**	ug/m3	1.3	0.58	1.83		03/06/17 00:39	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/06/17 00:39	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/06/17 00:39	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/06/17 00:39	106-93-4	
1,2-Dichlorobenzene	**3.2**	ug/m3	2.2	0.94	1.83		03/06/17 00:39	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/06/17 00:39	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/06/17 00:39	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.8	0.88	1.83		03/06/17 00:39	75-71-8	
1,1-Dichloroethane	**0.97J**	ug/m3	1.5	0.29	1.83		03/06/17 00:39	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/06/17 00:39	107-06-2	
1,1-Dichloroethene	**12.4**	ug/m3	1.5	0.44	1.83		03/06/17 00:39	75-35-4	
cis-1,2-Dichloroethene	**799**	ug/m3	1.5	0.45	1.83		03/06/17 00:39	156-59-2	
cis-1,2-Dichloroethene	**1830**	ug/m3	237	72.0	292.8		03/06/17 14:34	156-59-2	A3
trans-1,2-Dichloroethene	**15.1**	ug/m3	1.5	0.70	1.83		03/06/17 00:39	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/06/17 00:39	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/06/17 00:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/06/17 00:39	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/06/17 00:39	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/06/17 00:39	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/06/17 00:39	123-91-1	
Ethylbenzene	**12.1**	ug/m3	1.6	0.78	1.83		03/06/17 00:39	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.8	0.34	1.83		03/06/17 00:39	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/06/17 00:39	87-68-3	
n-Hexane	**4.1**	ug/m3	1.3	0.65	1.83		03/06/17 00:39	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/06/17 00:39	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/06/17 00:39	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/06/17 00:39	79-20-9	
Methylcyclohexane	**2.8**	ug/m3	1.5	0.44	1.83		03/06/17 00:39	108-87-2	
Methylene Chloride	**6.0J**	ug/m3	6.5	0.99	1.83		03/06/17 00:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/06/17 00:39	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/06/17 00:39	1634-04-4	
2-Propanol	**9.3**	ug/m3	4.6	0.44	1.83		03/06/17 00:39	67-63-0	
Styrene	**1.0J**	ug/m3	1.6	0.35	1.83		03/06/17 00:39	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/06/17 00:39	79-34-5	
Tetrachloroethene	**1340**	ug/m3	1.3	0.51	1.83		03/06/17 00:39	127-18-4	
Tetrachloroethene	**3870**	ug/m3	202	81.4	292.8		03/06/17 14:34	127-18-4	A3
Toluene	**96.0**	ug/m3	1.4	0.28	1.83		03/06/17 00:39	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/06/17 00:39	120-82-1	
1,1,1-Trichloroethane	**6.7**	ug/m3	2.0	0.45	1.83		03/06/17 00:39	71-55-6	
1,1,2-Trichloroethane	**5.7**	ug/m3	1.0	0.45	1.83		03/06/17 00:39	79-00-5	
Trichloroethene	**3680**	ug/m3	1.0	0.51	1.83		03/06/17 00:39	79-01-6	
Trichloroethene	**26400**	ug/m3	161	80.8	292.8		03/06/17 14:34	79-01-6	A3
Trichlorofluoromethane	**3.8**	ug/m3	2.1	0.24	1.83		03/06/17 00:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	**294**	ug/m3	2.9	0.55	1.83		03/06/17 00:39	76-13-1	
1,2,4-Trimethylbenzene	**2.2**	ug/m3	1.8	0.23	1.83		03/06/17 00:39	95-63-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D
Report Date: 07-Mar-2017 08:20

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06431.D
Lab Smp Id: 10380193011
Inj Date : 06-MAR-2017 00:39
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 31
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.021	(0.544)	12778	0.25078	0.459	(H)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.542	(0.630)	129718	25.7054	47.0	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.581	3.578	(0.637)	24132	1.63092	2.98	(M)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.664	3.655	(0.651)	13705	0.36399	0.666	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.738	3.713	(0.665)	150545	6.90867	12.6	
19	Isopropyl Alcohol	45	3.771	3.764	(0.670)	45395	2.04265	3.74	(QM)
20	1,1-Dichloroethene	61	3.896	3.896	(0.693)	36880	1.68418	3.08	
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.954	3.934	(0.703)	585434	20.5900	37.7	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D
Report Date: 07-Mar-2017 08:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.992	3.992	(0.710)	14282	0.92860	1.70	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	4.105	4.108	(0.730)	3394	0.11717	0.214	
	28 trans-1,2-dichloroethene	96	4.259	4.269	(0.757)	25111	2.04379	3.74	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	4.401	4.407	(0.782)	3068	0.12819	0.235	
$	32 Hexane-d14(S)	66	4.491	4.481	(0.798)	383460	8.77594	8.78	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.587	4.578	(0.815)	13592	0.62063	1.14(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.719	4.722	(0.839)	1486208	108.265	198(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.832	4.838	(0.859)	113995	4.00654	7.33	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.234	5.227	(0.930)	22113	0.66063	1.21	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	5.478	5.465	(0.974)	25387	0.57317	1.05	
	44 Carbon tetrachloride	117	5.481	5.484	(0.974)	3370	0.10074	0.184	
	45 Cyclohexane	56	5.491	5.484	(0.976)	17162	0.77402	1.42(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.626	5.610	(1.000)	1373377	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.922	5.889	(1.053)	8269	0.33411	0.611(H)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.021	5.986	(1.070)	8503120	368.494	674(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	6.442	6.430	(1.145)	4550	0.37017	0.677	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.089	7.076	(1.260)	1130477	9.19677	9.20	
	60 1,1,2-Trichloroethane	97	7.153	7.143	(1.271)	10295	0.55891	1.02(Q)	
	61 Toluene	91	7.166	7.153	(1.274)	759590	13.6941	25.1	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.590	7.584	(0.877)	14519	0.48223	0.882(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.005	7.986	(0.925)	3243056	106.103	194(A)	
*	67 Chlorobenzene - d5	117	8.651	8.645	(1.000)	880233	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	8.938	8.934	(1.033)	96911	1.49689	2.74	
	70 m&p-Xylene	91	9.079	9.082	(1.049)	280257	5.51528	10.1	
	71 n-Nonane	43	9.475	9.468	(1.095)	8292	0.31638	0.579(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.507	9.507	(1.099)	2430	0.13170	0.241	
	74 o-Xylene	91	9.581	9.581	(1.107)	68798	1.33080	2.44	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D
Report Date: 07-Mar-2017 08:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.915	10.912	(1.262)	5081	0.16495	0.302(M)	
79	1,3,5-Trimethylbenzene	105	11.005	11.002	(1.272)	6043	0.11563	0.212	
80	n-Decane	57	11.394	11.378	(2.025)	13105	0.60167	1.10(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.510	11.513	(1.330)	12607	0.24110	0.441	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.370)	505471	10.4244	10.4	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.420)	7300	0.28512	0.522	
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.179	14.169	(1.639)	7091	0.53339	0.976	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D
Report Date: 07-Mar-2017 08:20

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06431.D
Lab Smp Id: 10380193011
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

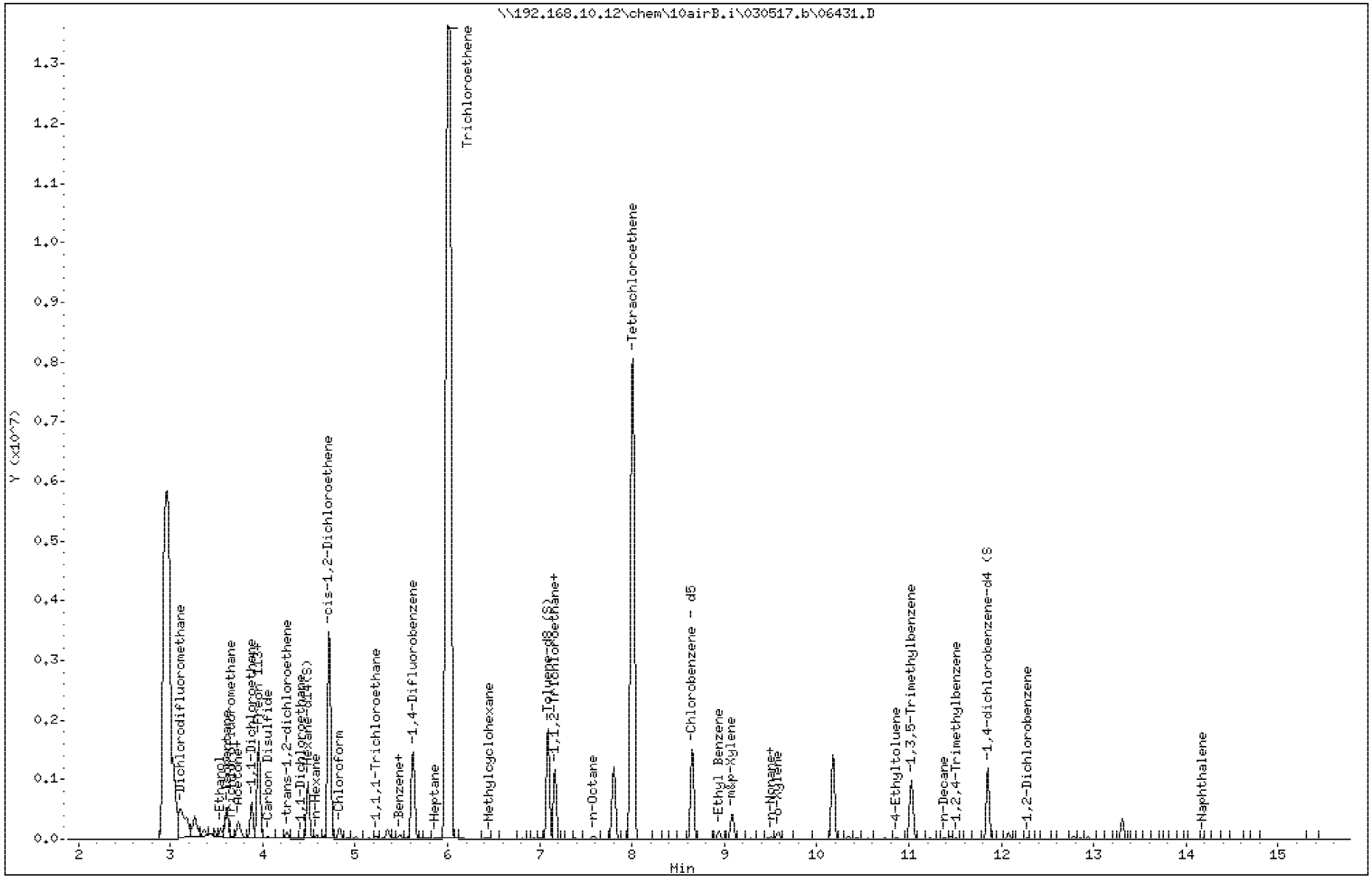
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1373377	-2.88
67 Chlorobenzene - d	951026	570616	1331436	880233	-7.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.63	0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D
Date : 06-MAR-2017 00:39
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

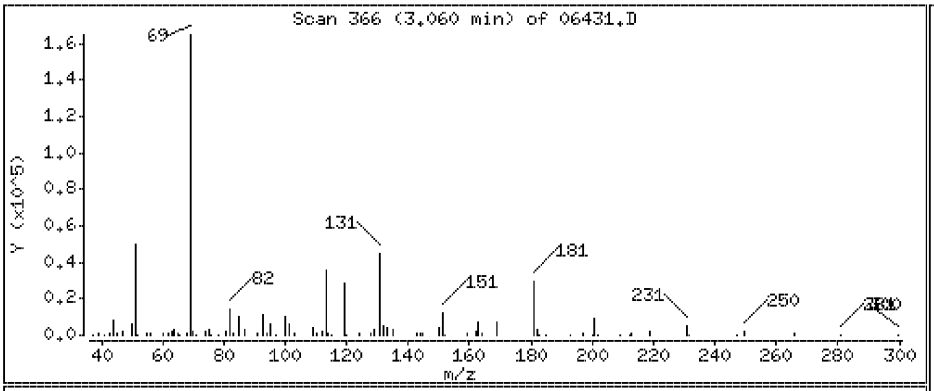
Operator: NCK

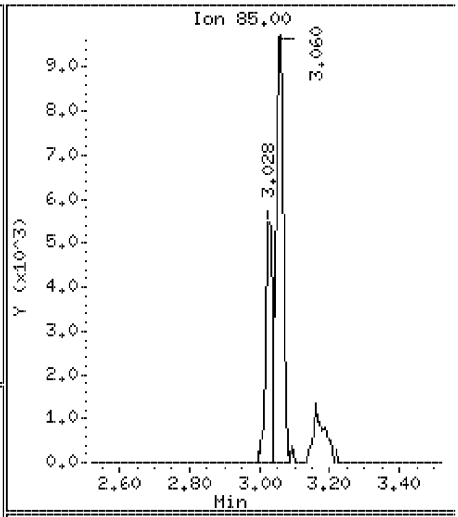
Column phase: J&W DB-5

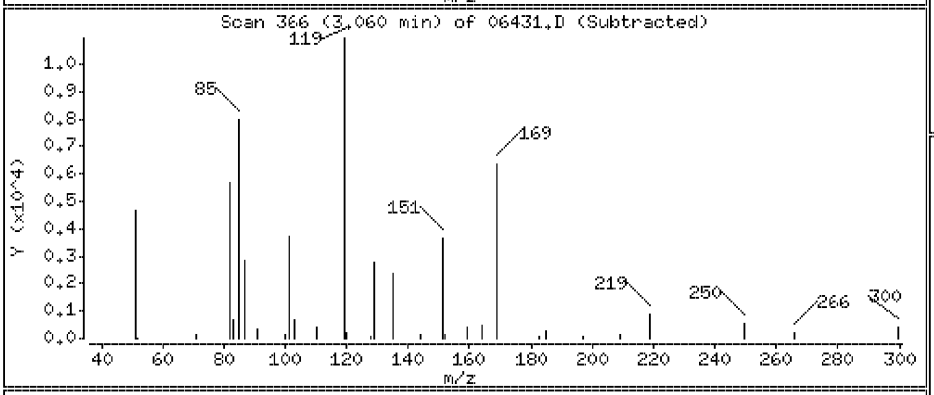
Column diameter: 0.32

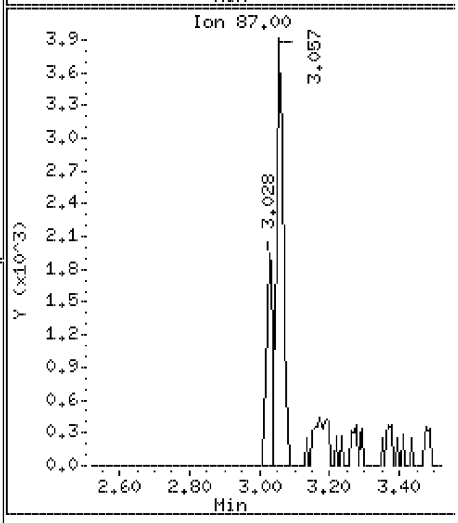
5 Dichlorodifluoromethane

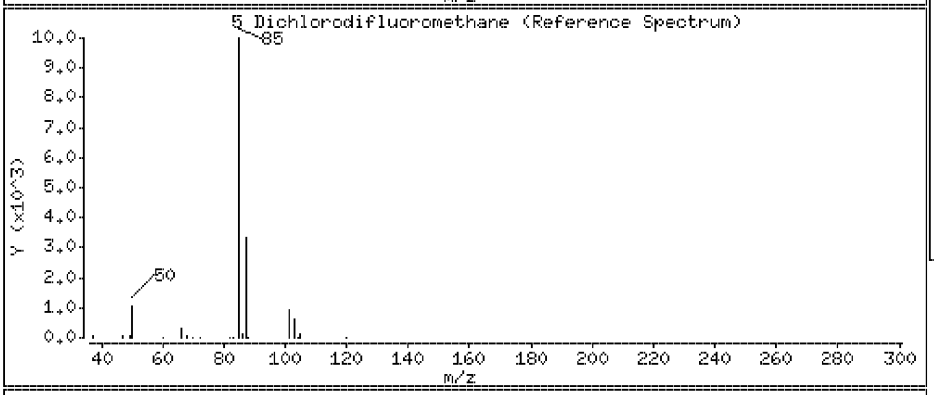
Concentration: 0.459 ppbv

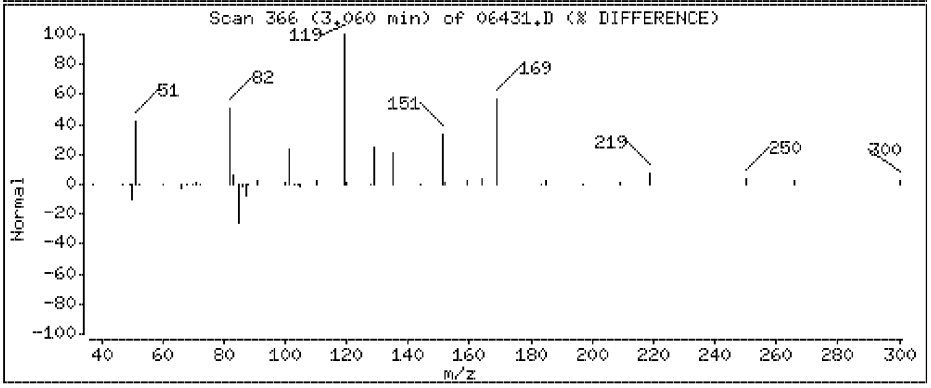












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

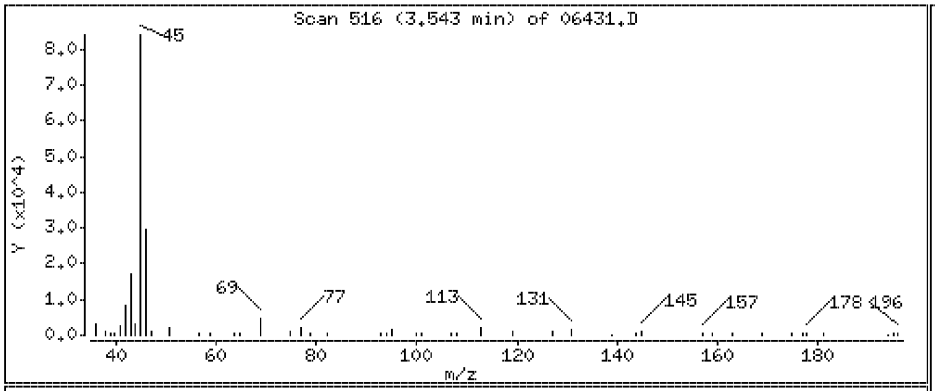
Operator: NCK

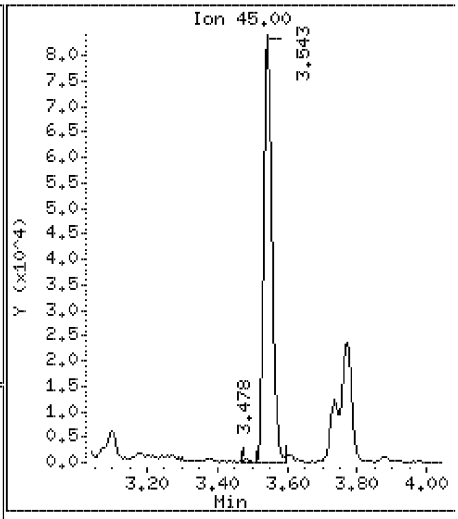
Column phase: J&W DB-5

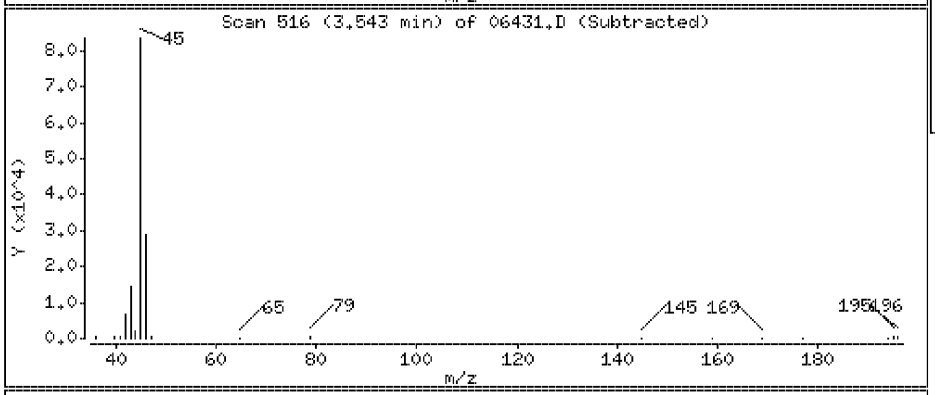
Column diameter: 0.32

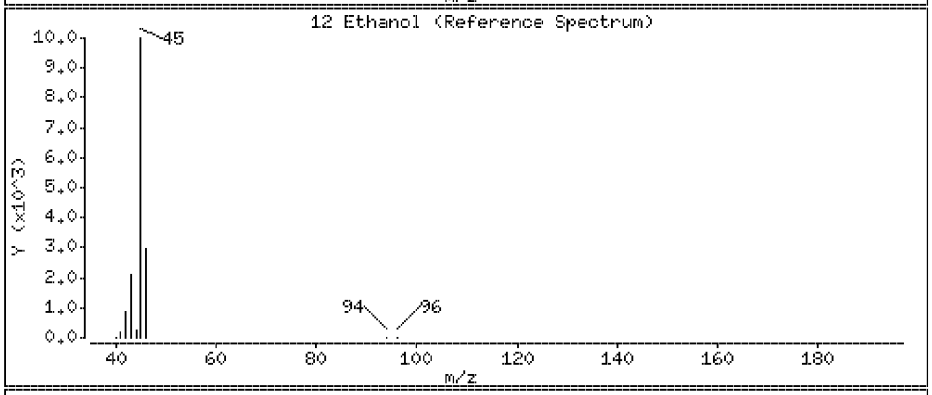
12 Ethanol

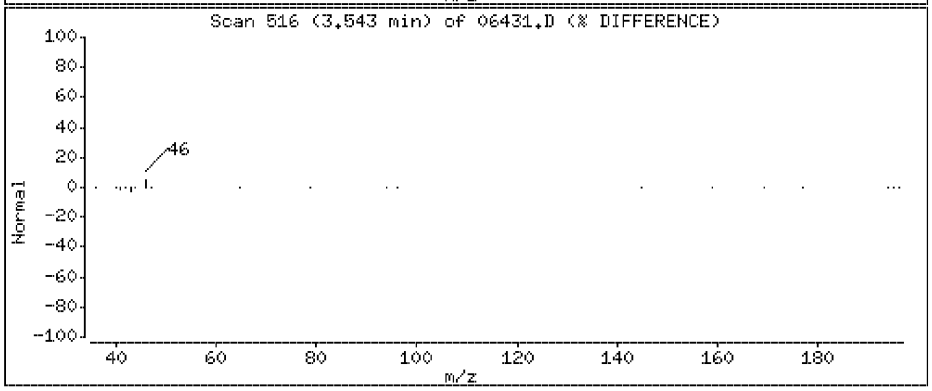
Concentration: 47.0 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

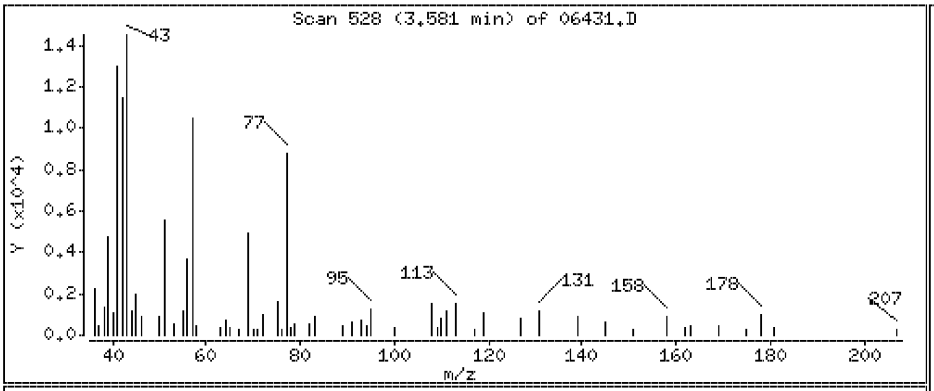
Operator: NCK

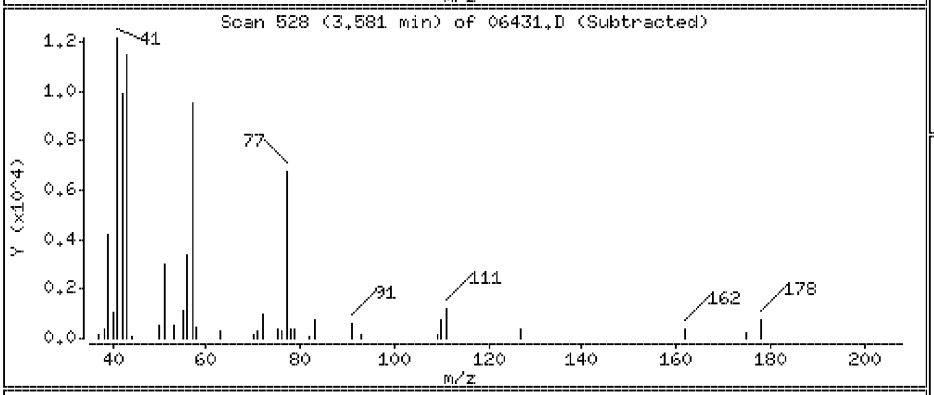
Column phase: J&W DB-5

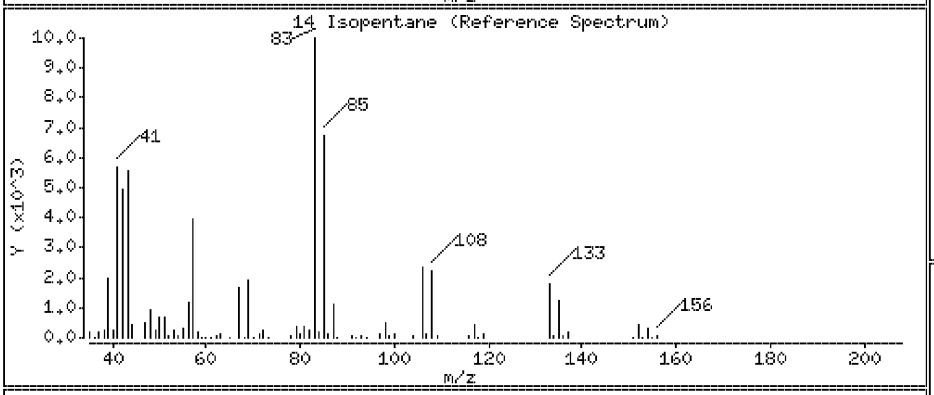
Column diameter: 0.32

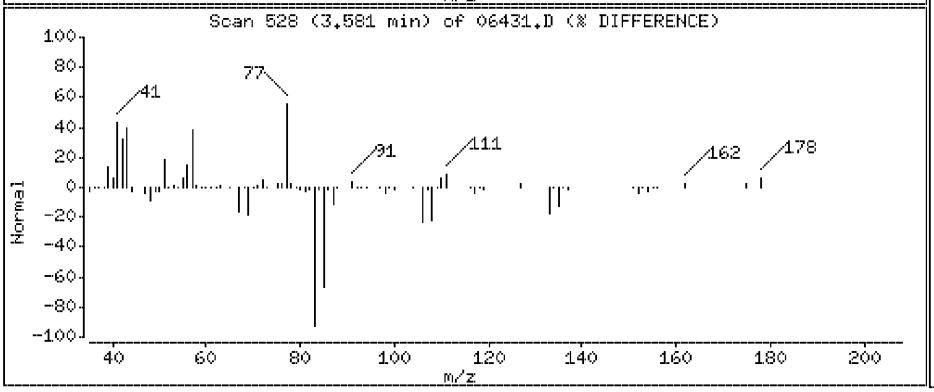
14 Isopentane

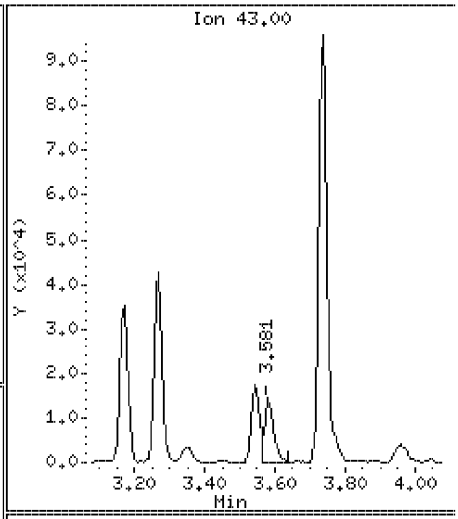
Concentration: 2.98 ppbv

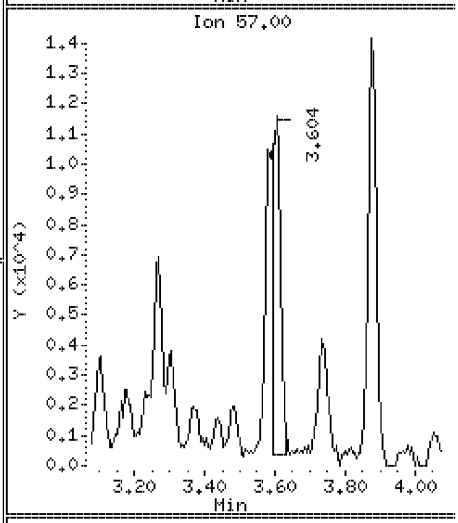


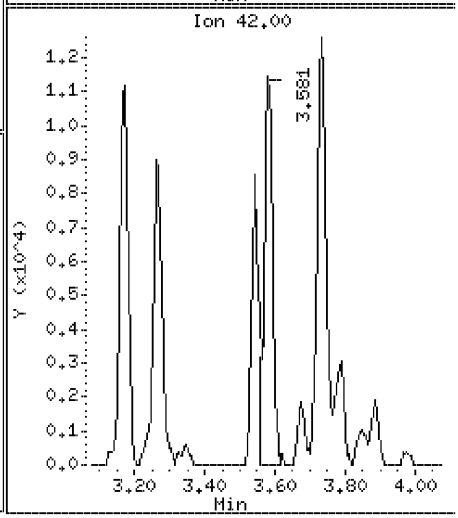












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

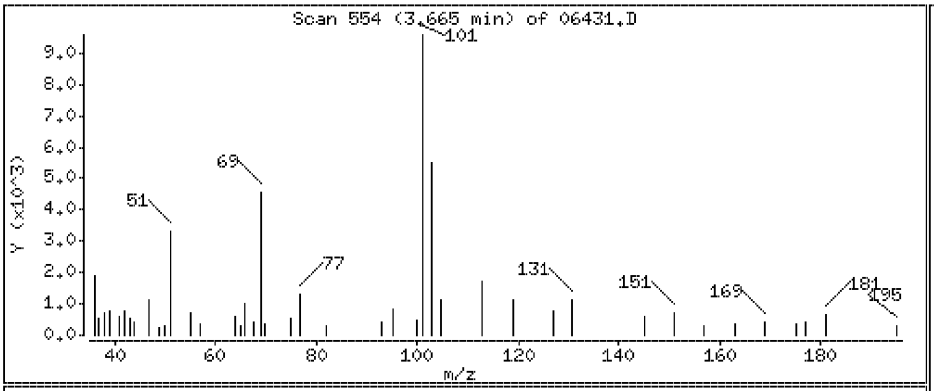
Operator: NCK

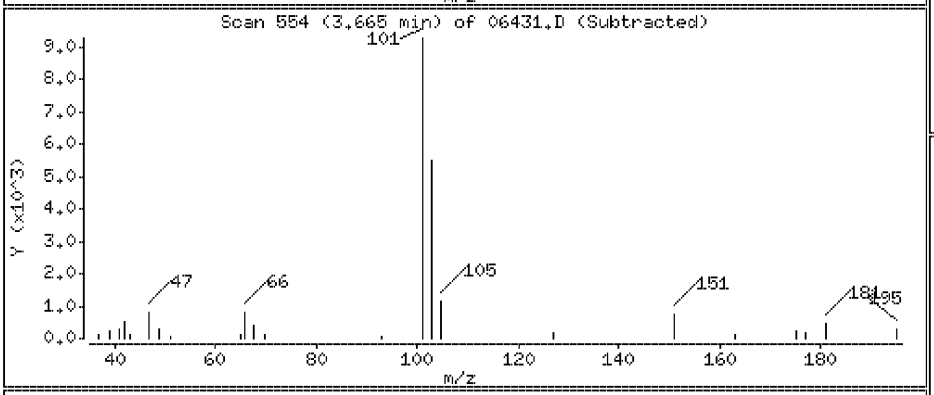
Column phase: J&W DB-5

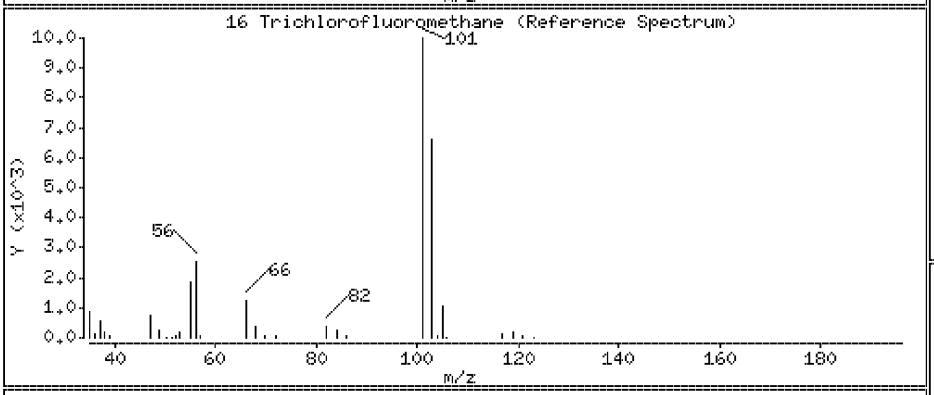
Column diameter: 0.32

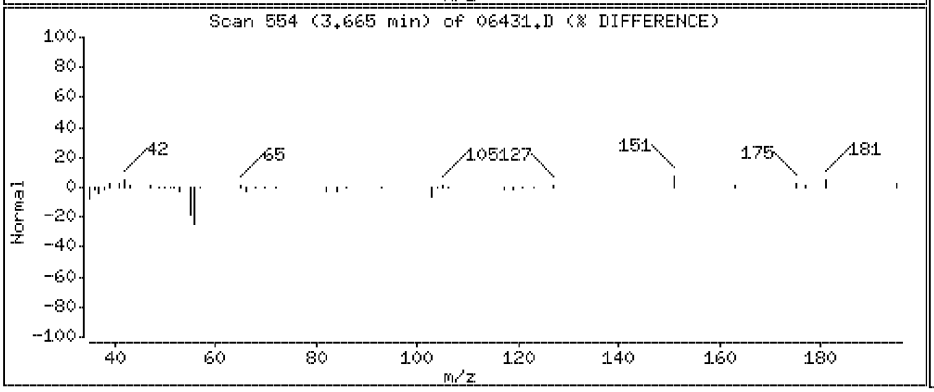
16 Trichlorofluoromethane

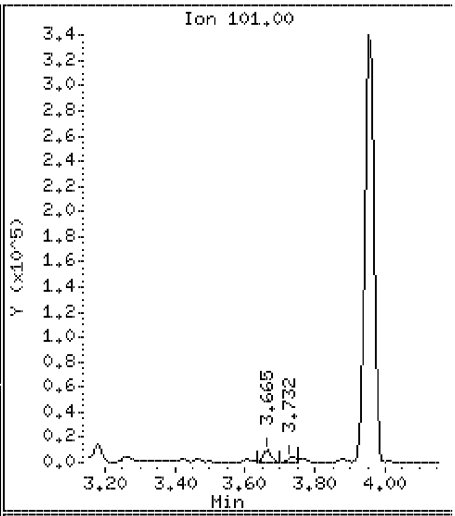
Concentration: 0.666 ppbv

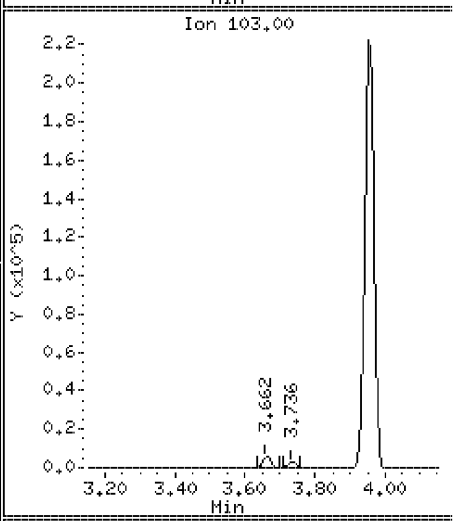


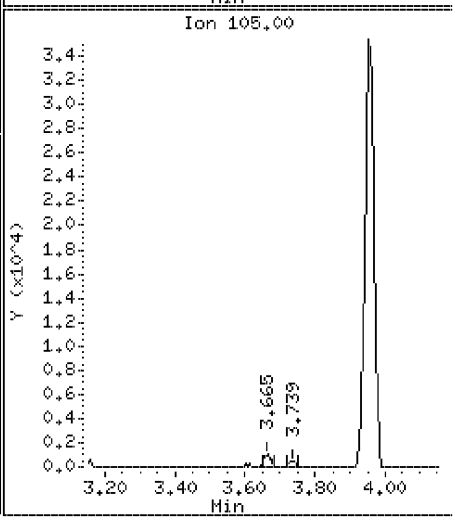












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

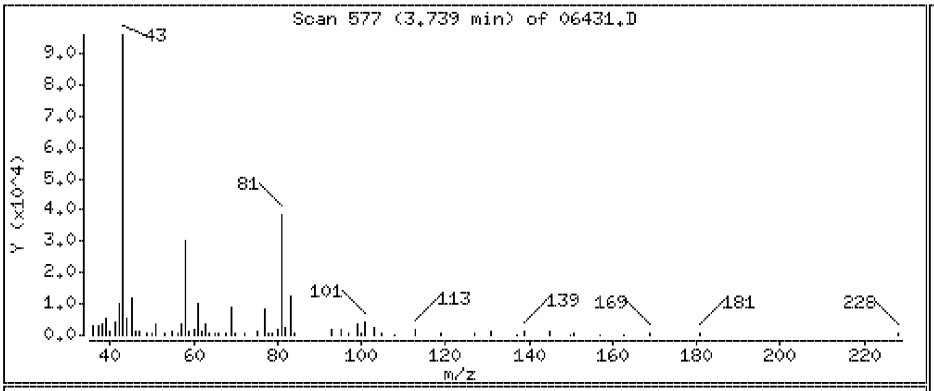
Operator: NCK

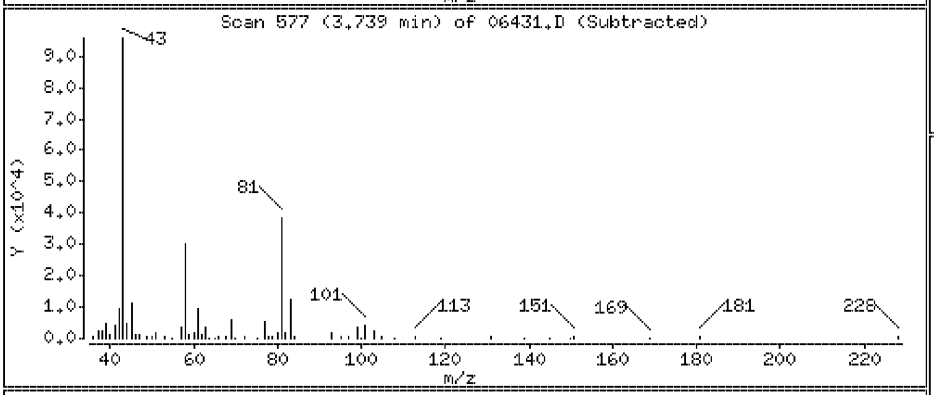
Column phase: J&W DB-5

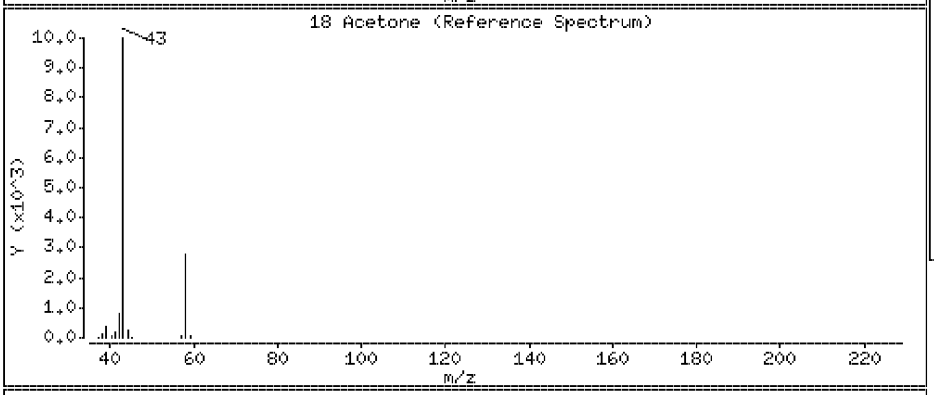
Column diameter: 0.32

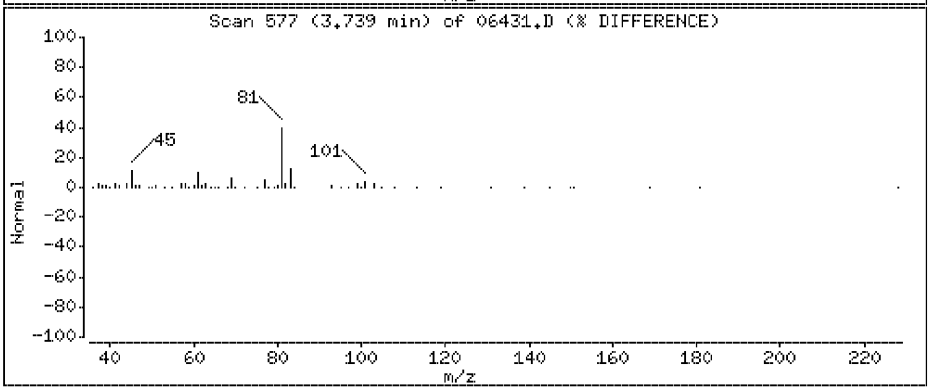
18 Acetone

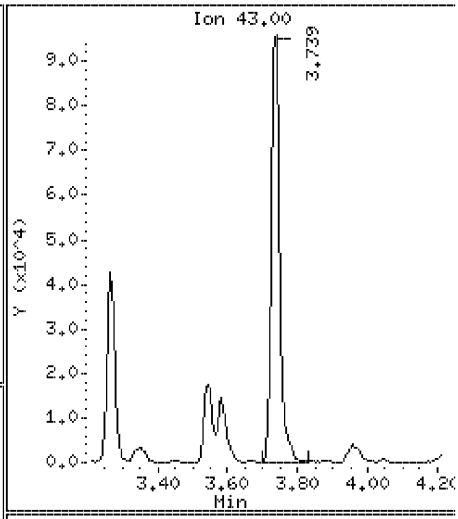
Concentration: 12.6 ppbv

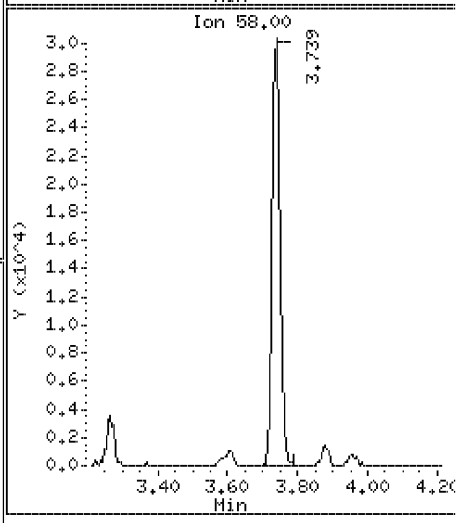












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

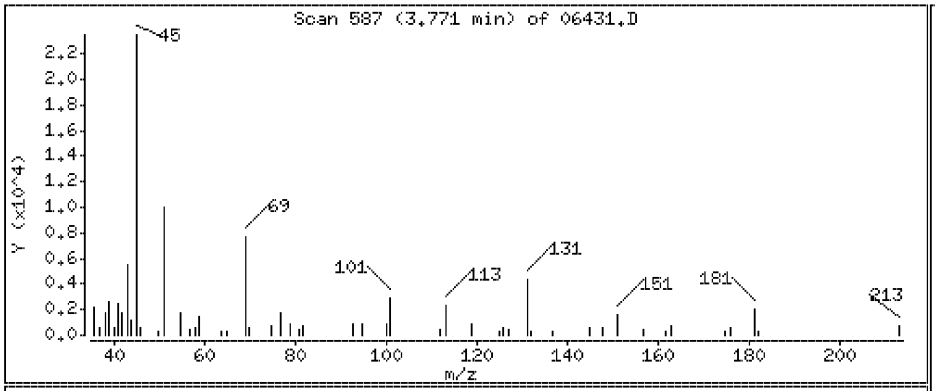
Operator: NCK

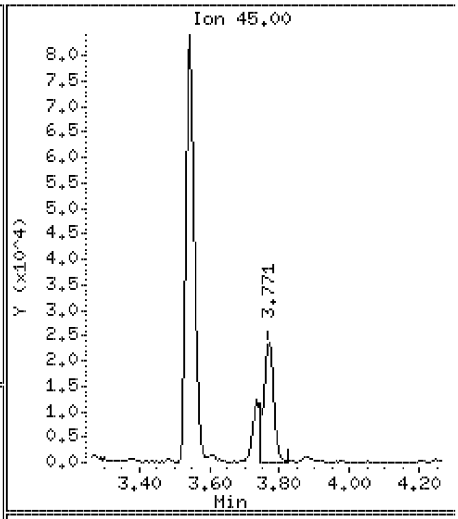
Column phase: J&W DB-5

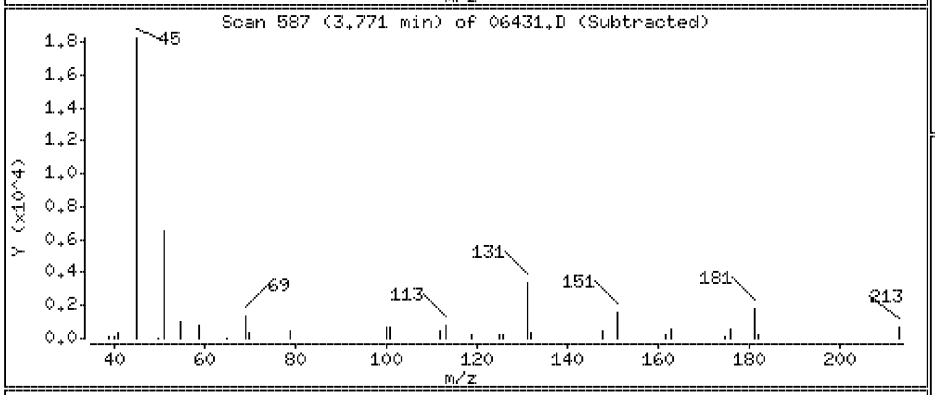
Column diameter: 0.32

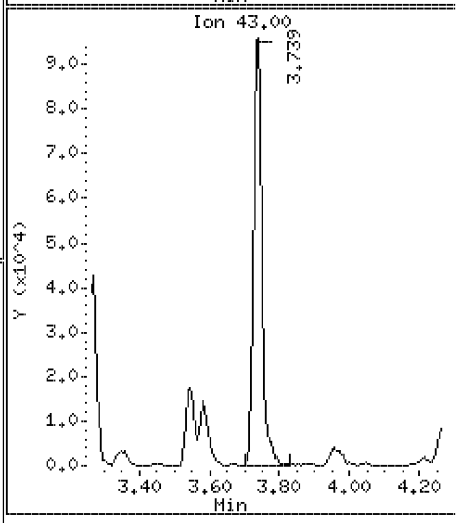
19 Isopropyl Alcohol

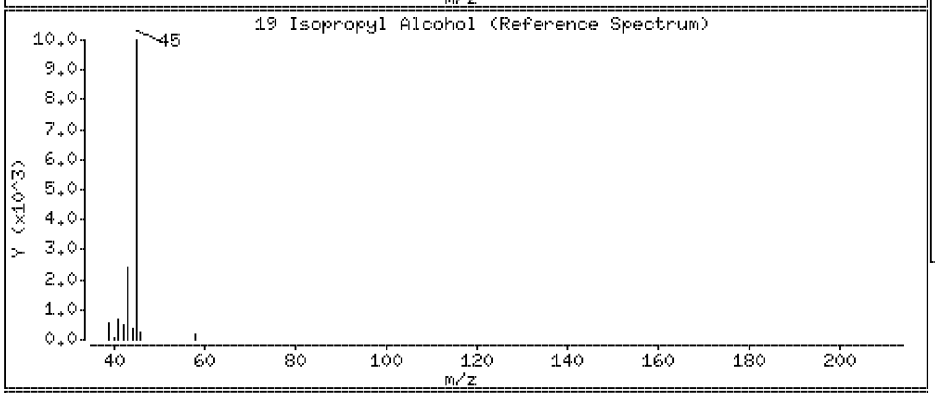
Concentration: 3.74 ppbv

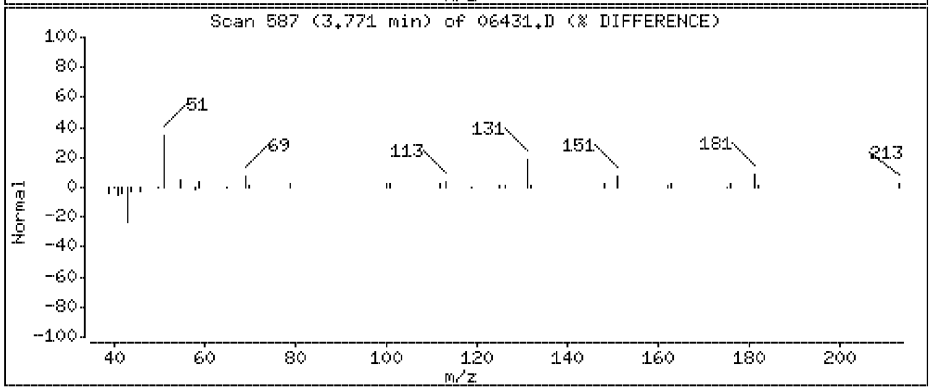












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

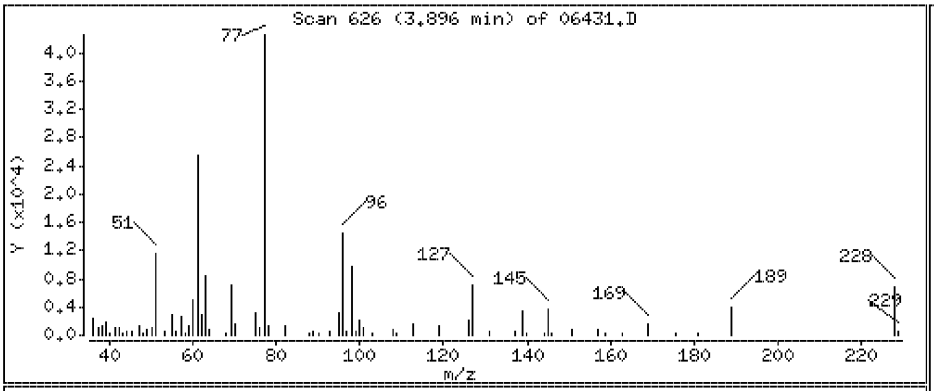
Operator: NCK

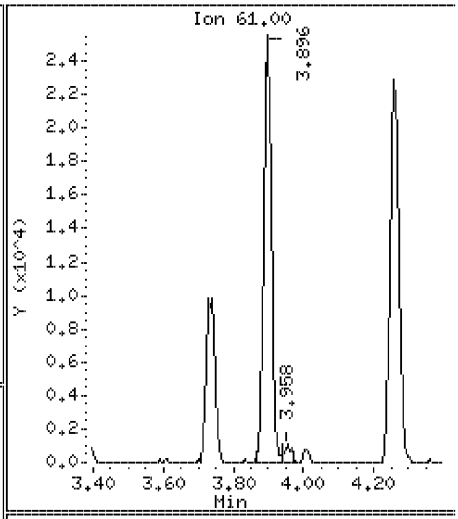
Column phase: J&W DB-5

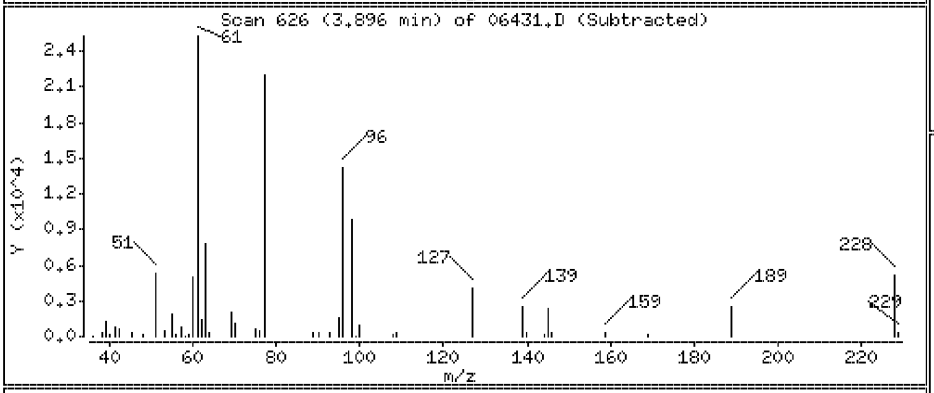
Column diameter: 0.32

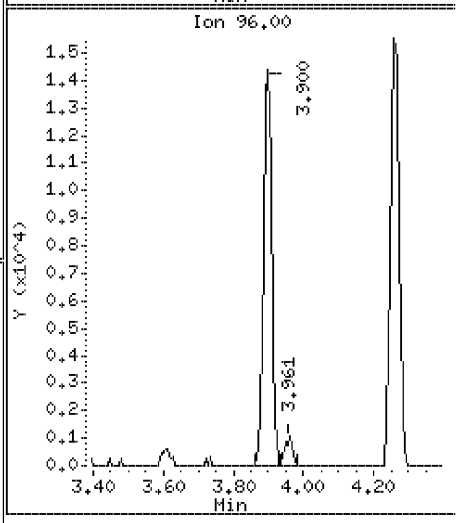
20 1,1-Dichloroethene

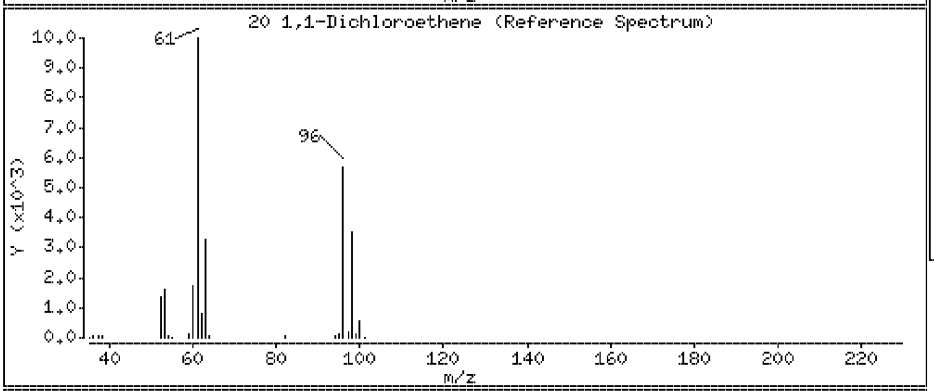
Concentration: 3.08 ppbv

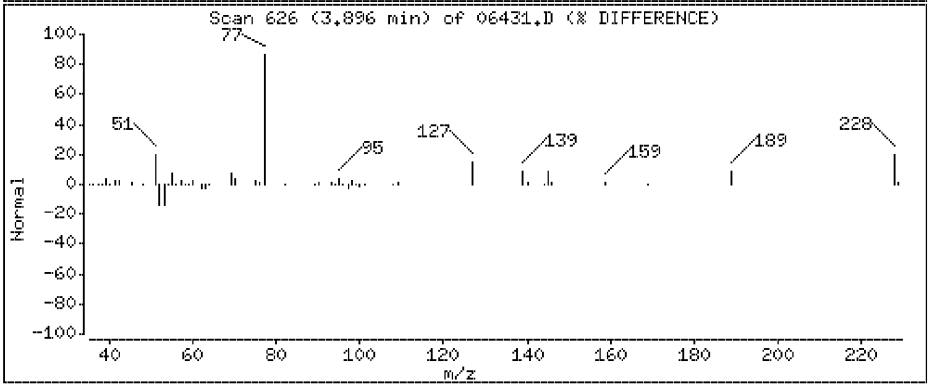












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

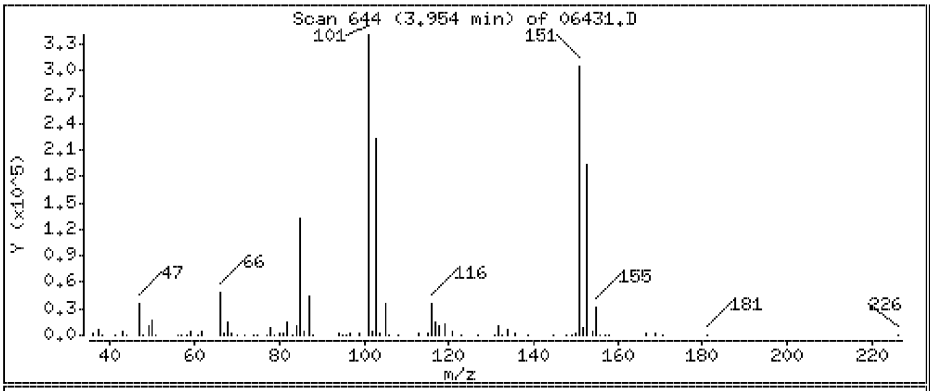
Operator: NCK

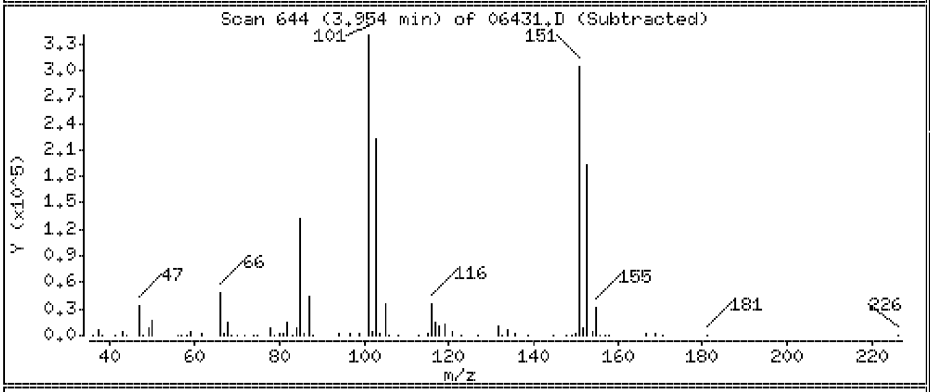
Column phase: J&W DB-5

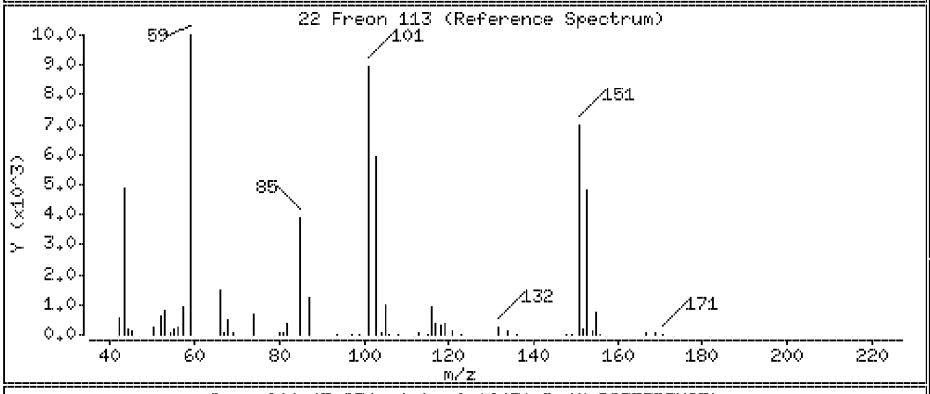
Column diameter: 0.32

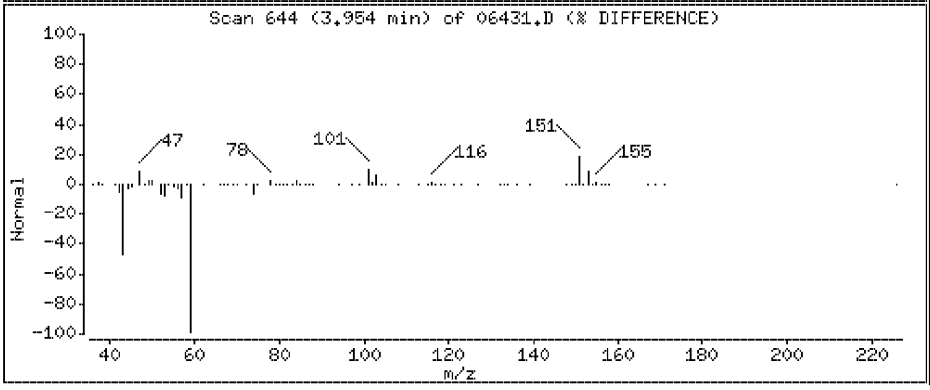
22 Freon 113

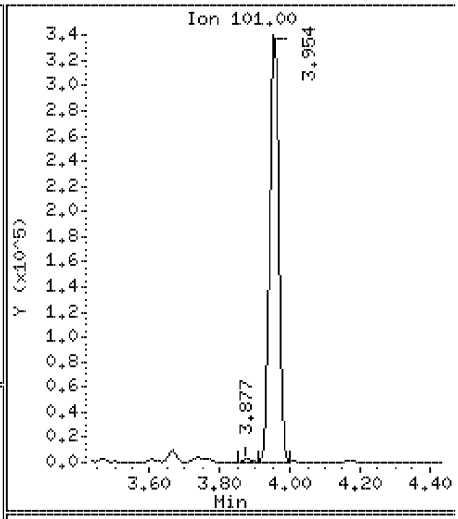
Concentration: 37.7 ppbv

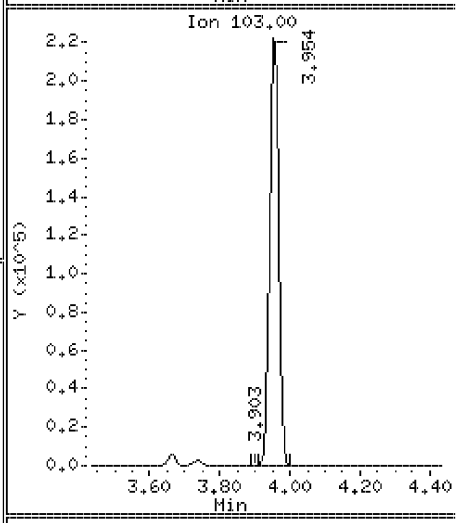


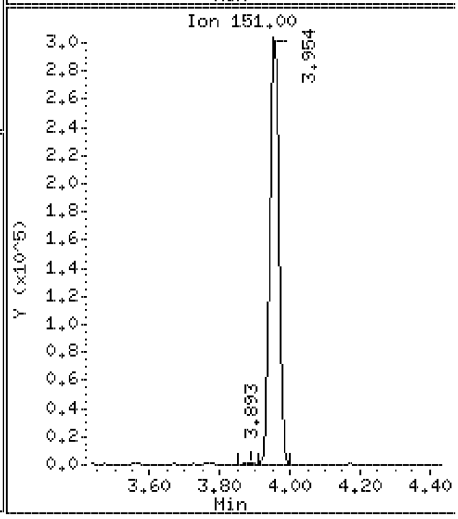












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

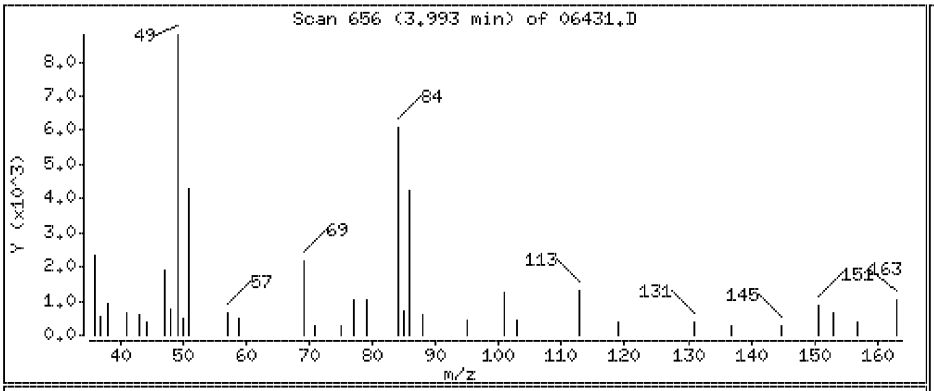
Operator: NCK

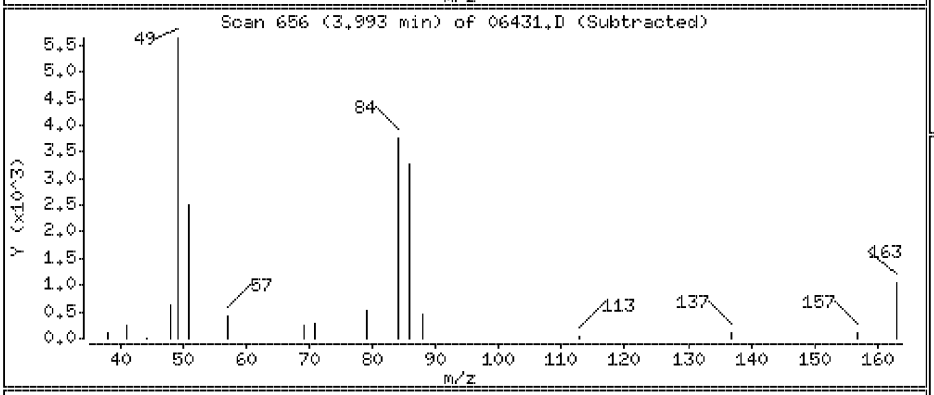
Column phase: J&W DB-5

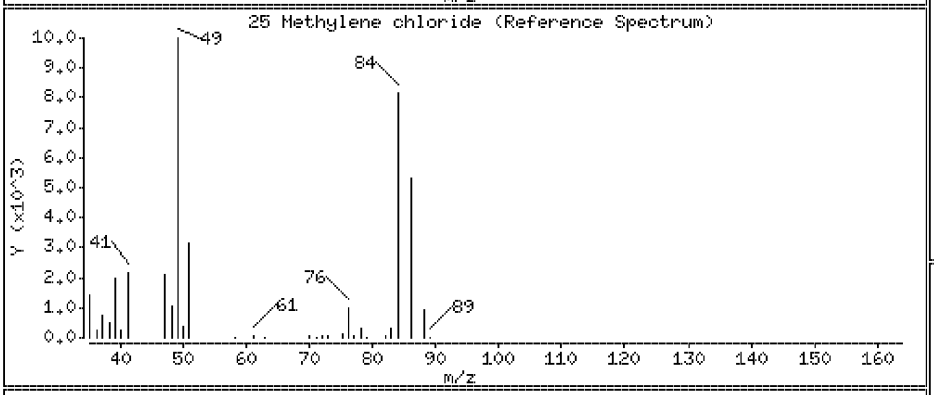
Column diameter: 0.32

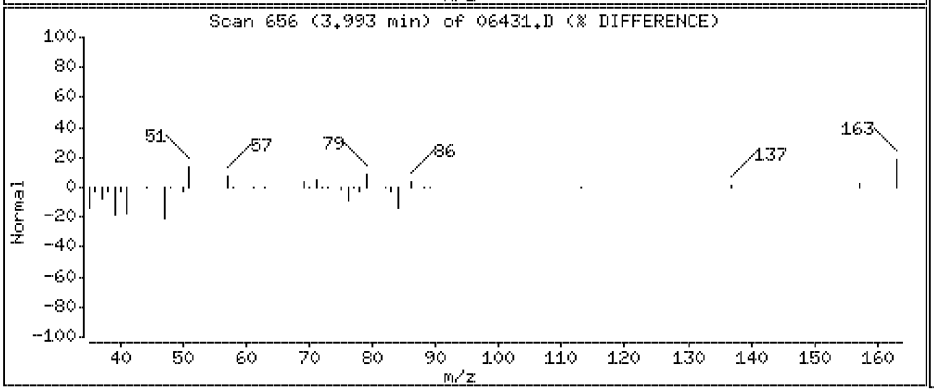
25 Methylene chloride

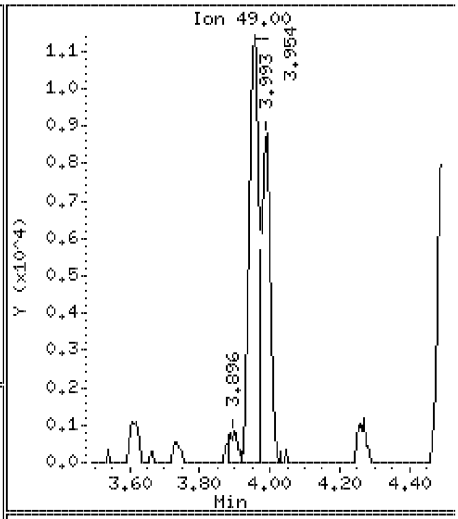
Concentration: 1.70 ppbv

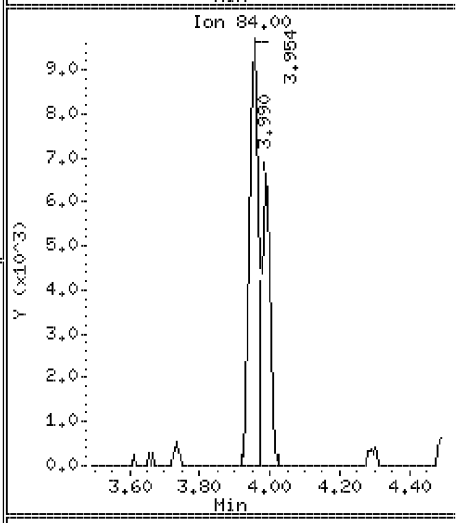


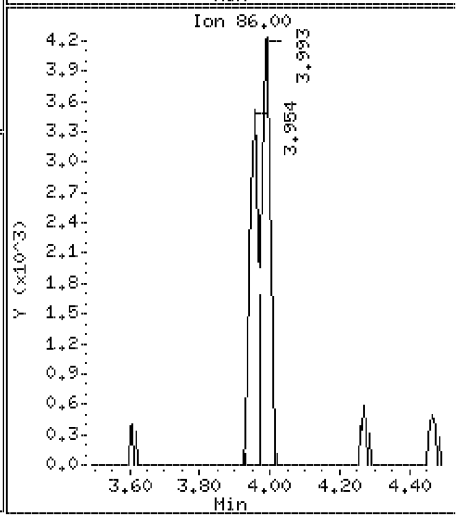












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

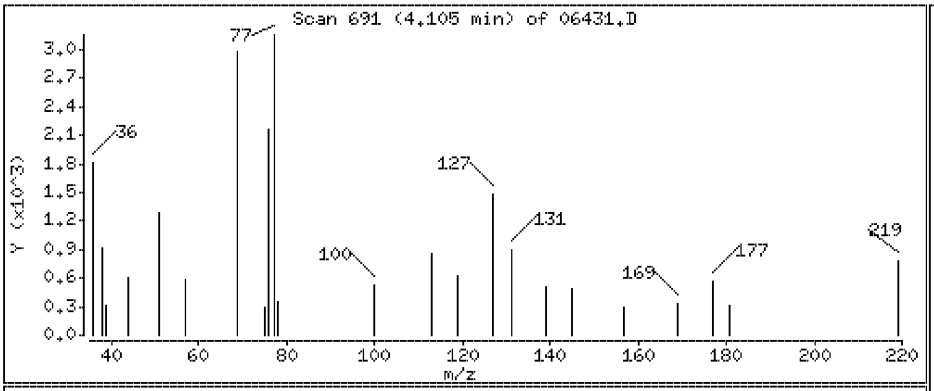
Operator: NCK

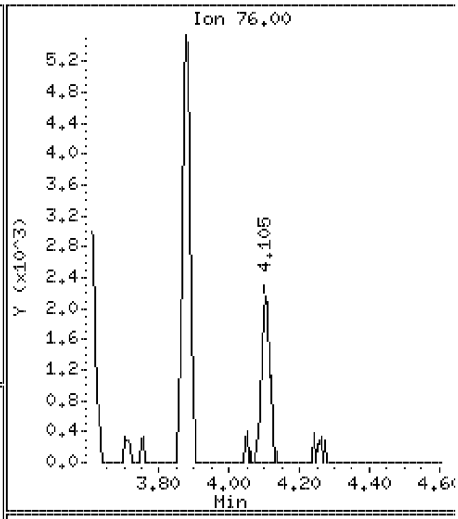
Column phase: J&W DB-5

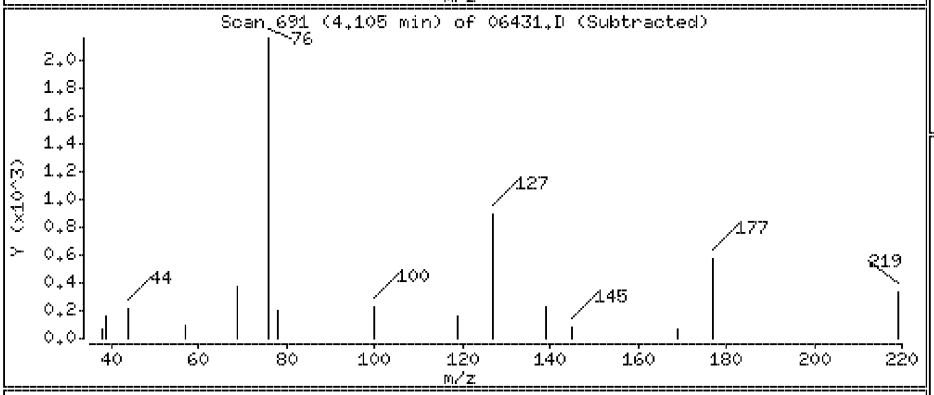
Column diameter: 0.32

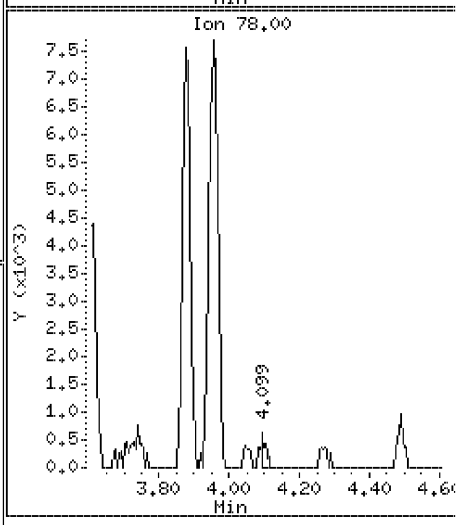
27 Carbon Disulfide

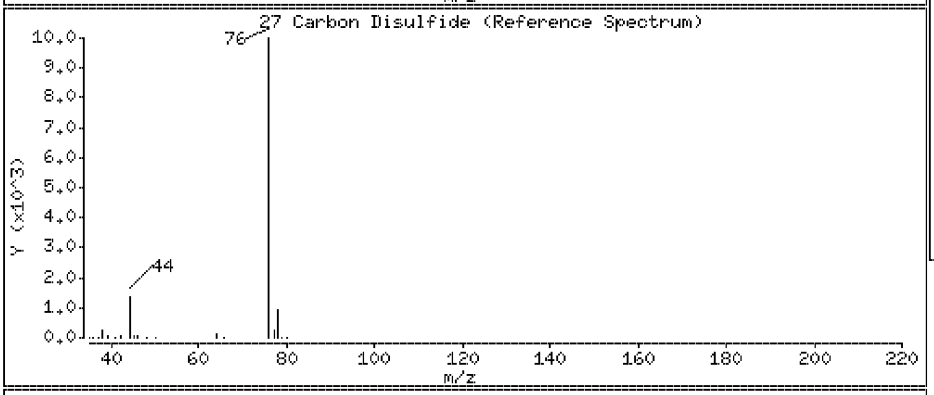
Concentration: 0.214 ppbv

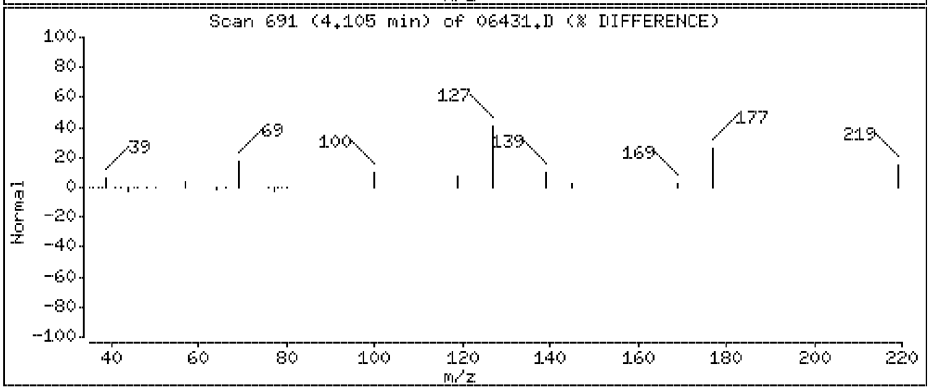












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

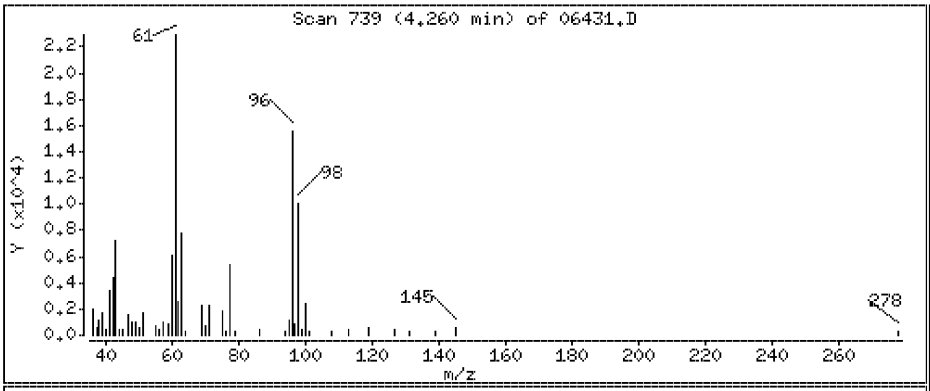
Operator: NCK

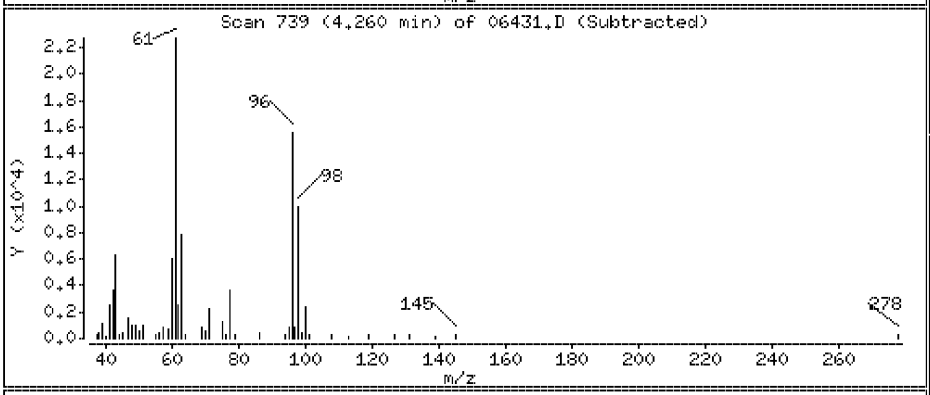
Column phase: J&W DB-5

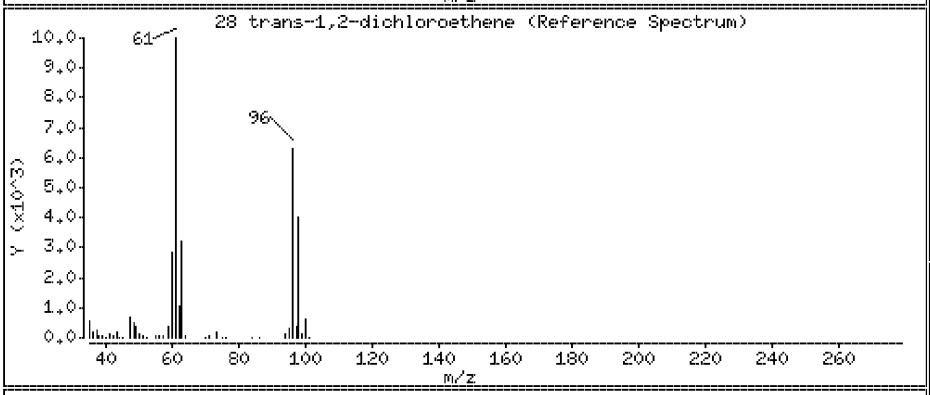
Column diameter: 0.32

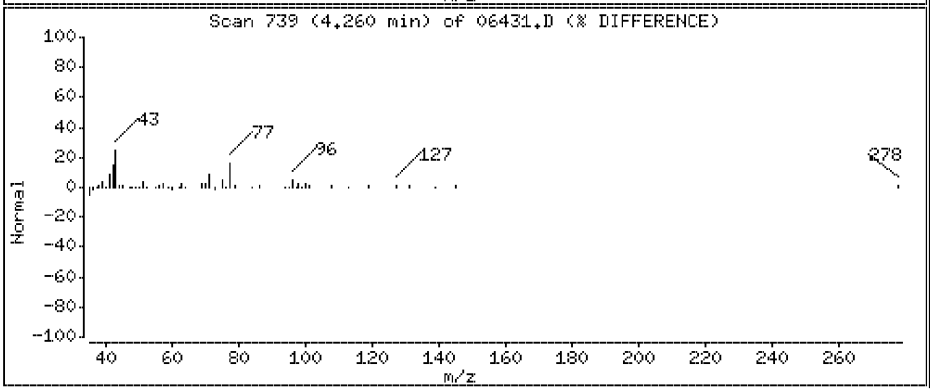
28 trans-1,2-dichloroethene

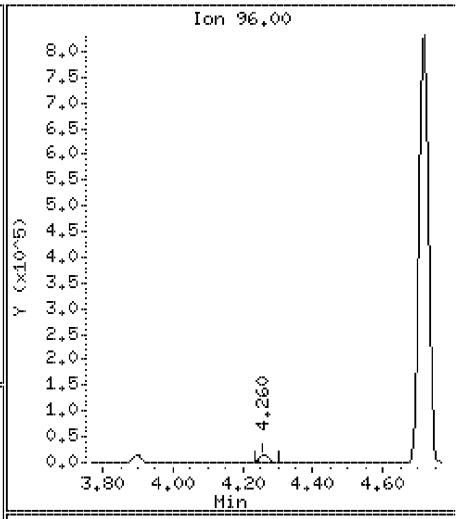
Concentration: 3.74 ppbv

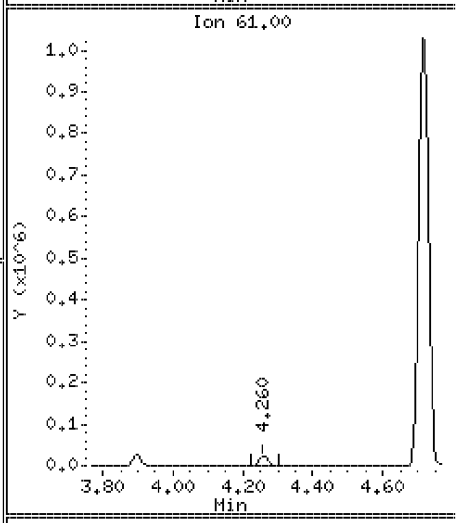


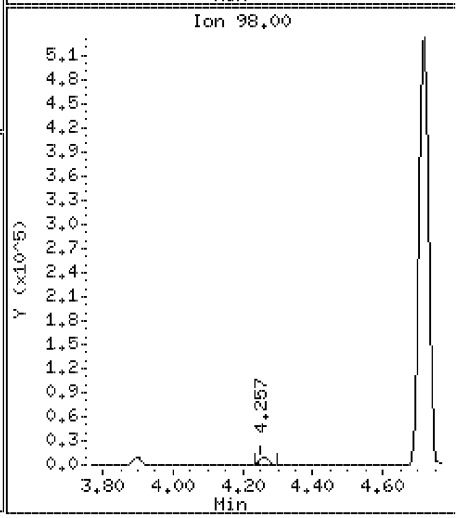












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

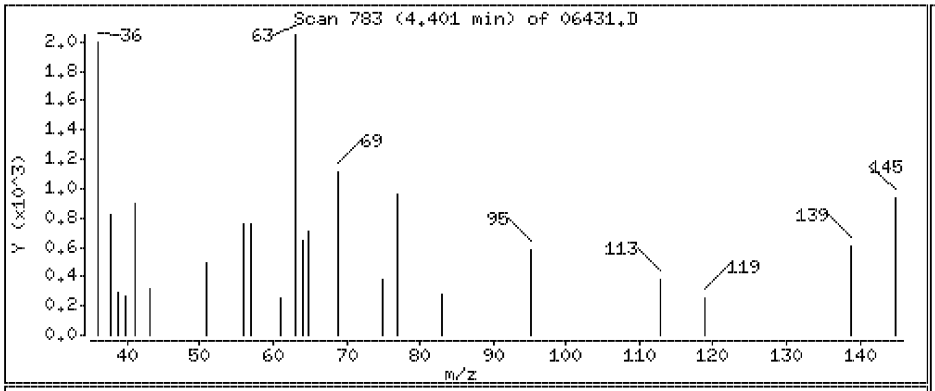
Operator: NCK

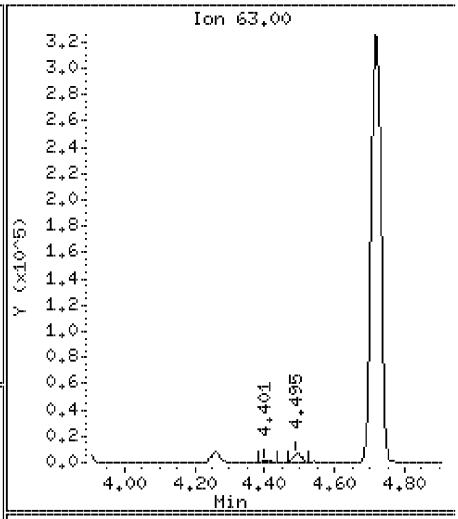
Column phase: J&W DB-5

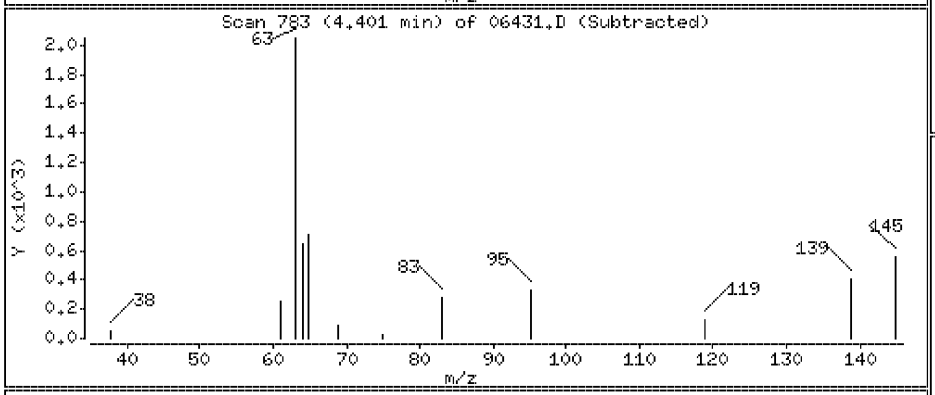
Column diameter: 0.32

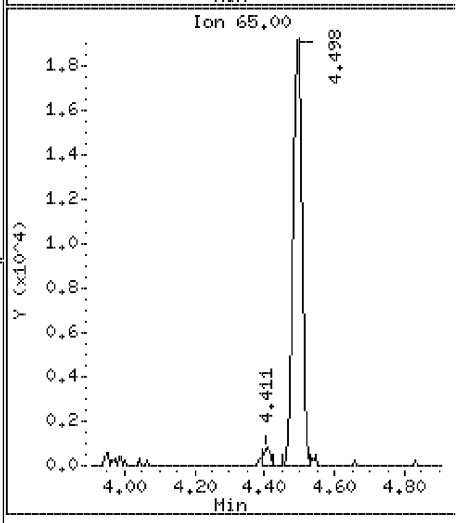
31 1,1-Dichloroethane

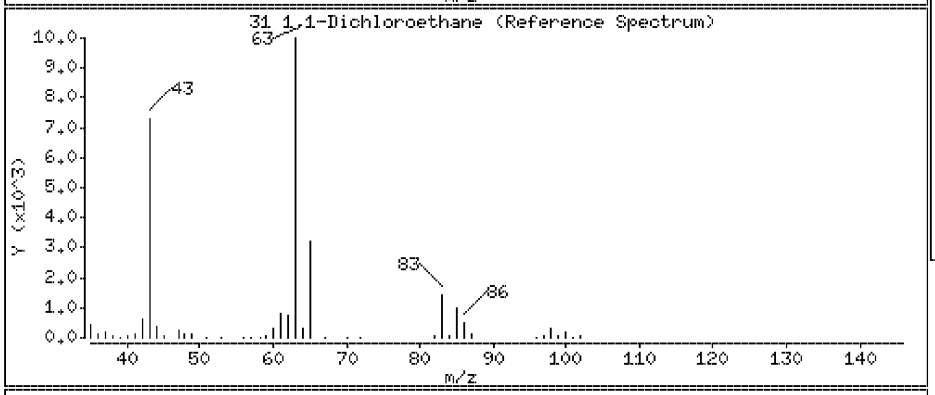
Concentration: 0.235 ppbv

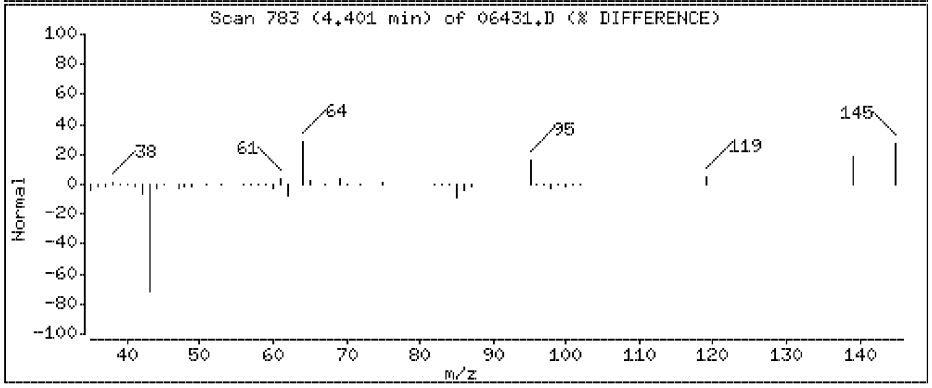












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

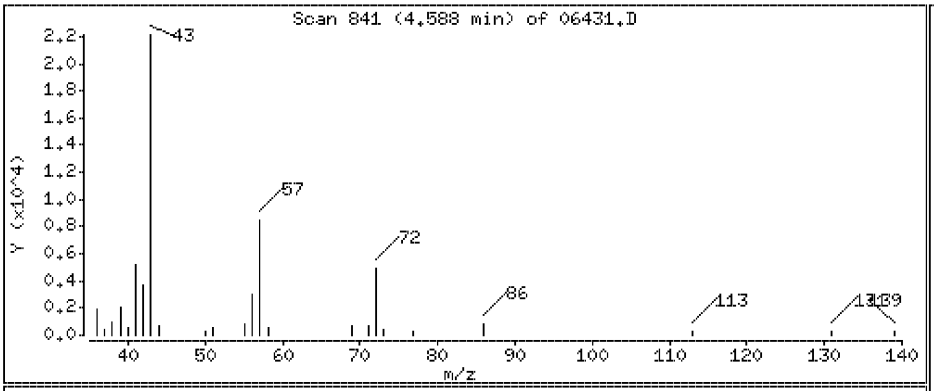
Operator: NCK

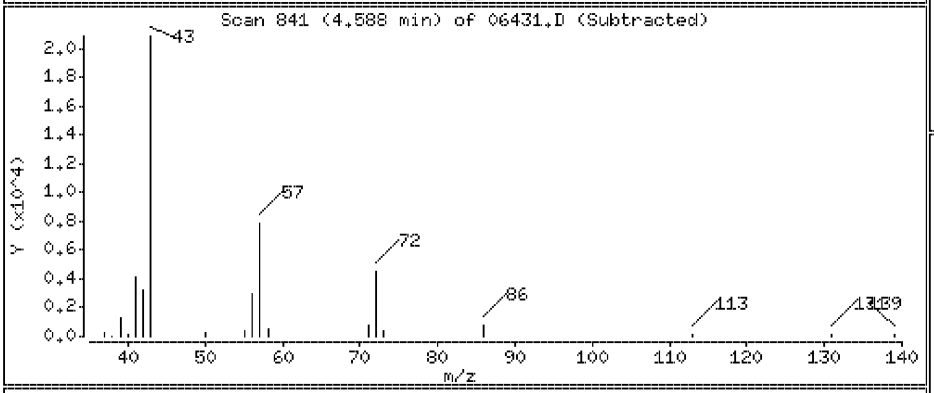
Column phase: J&W DB-5

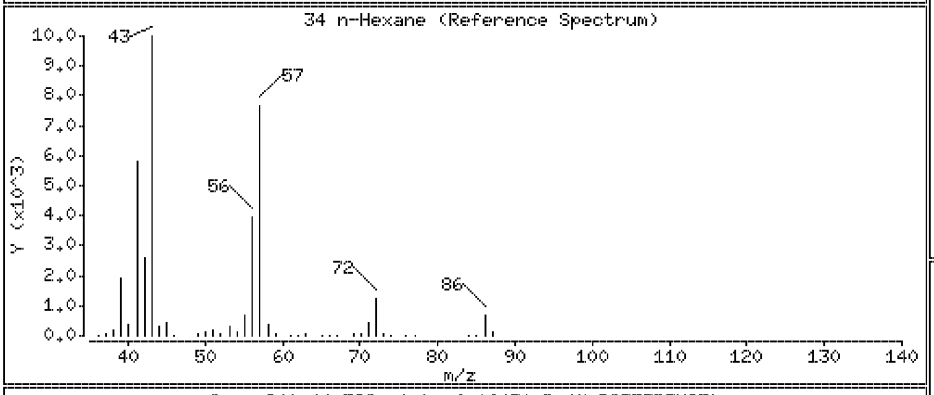
Column diameter: 0.32

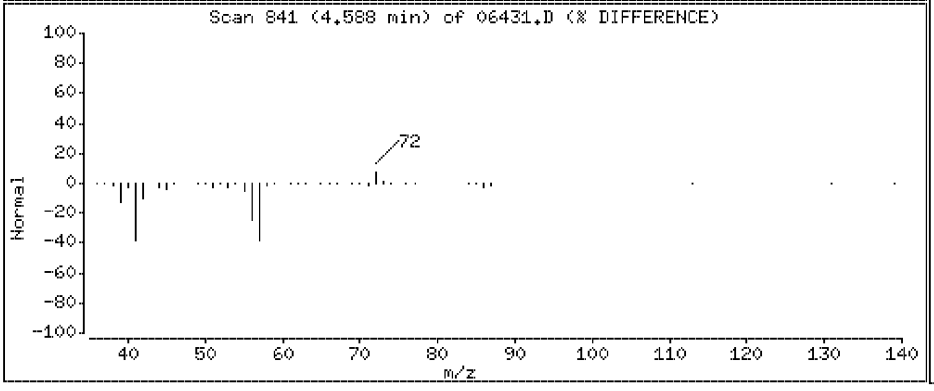
34 n-Hexane

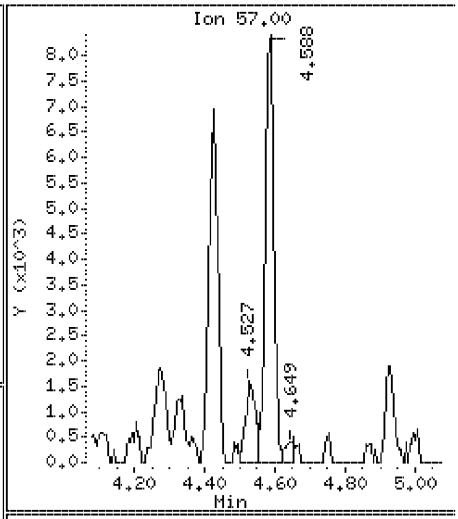
Concentration: 1.14 ppbv

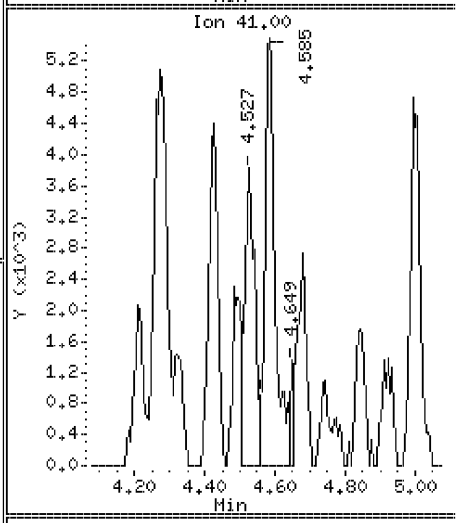


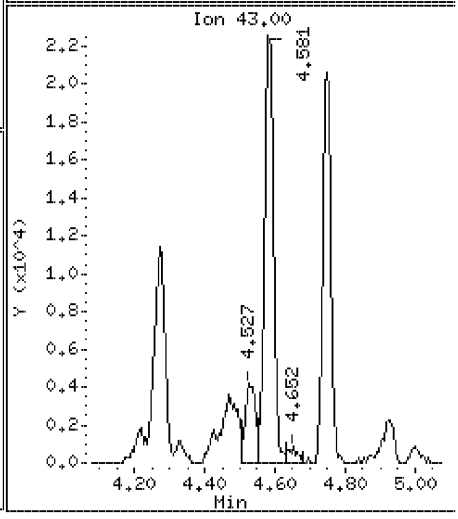












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

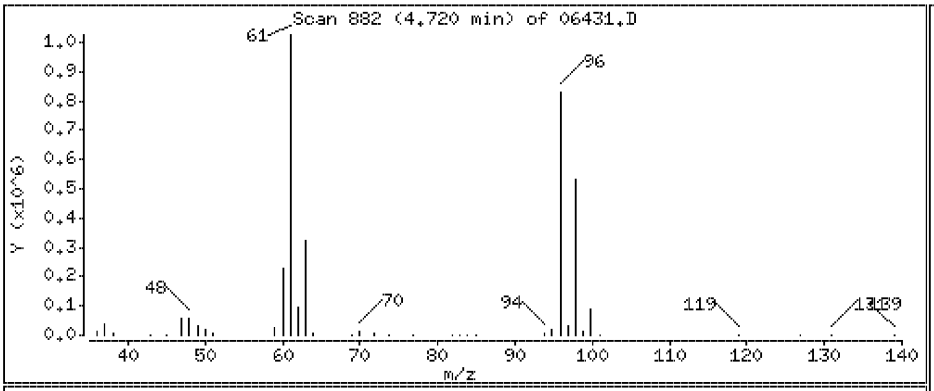
Operator: NCK

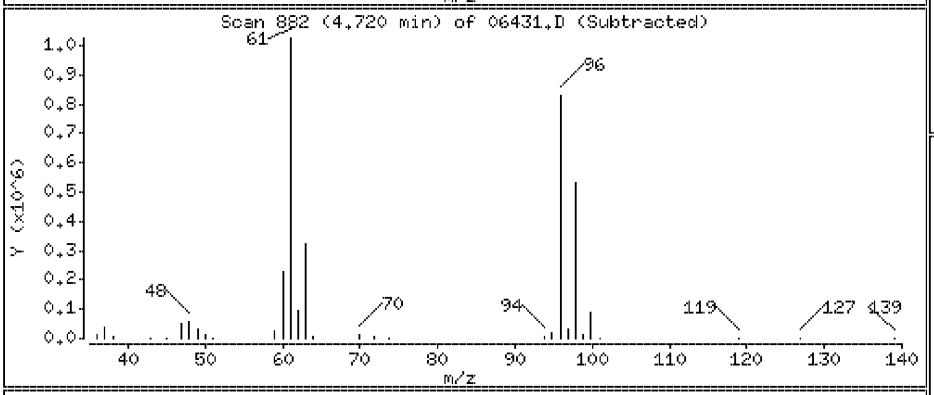
Column phase: J&W DB-5

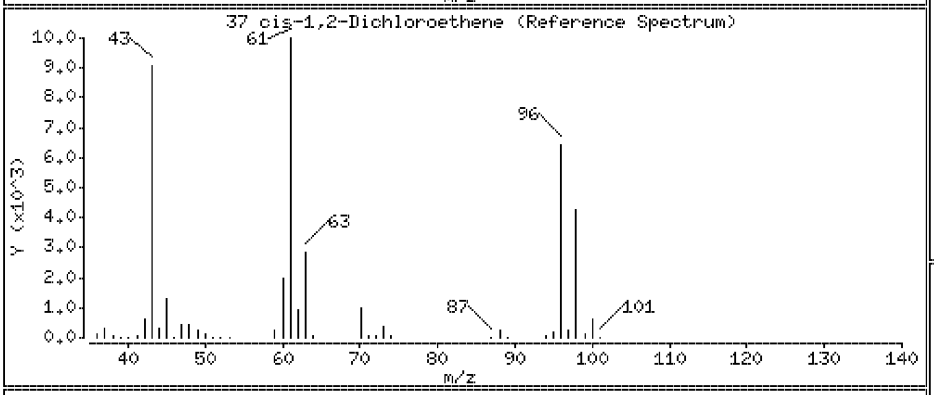
Column diameter: 0.32

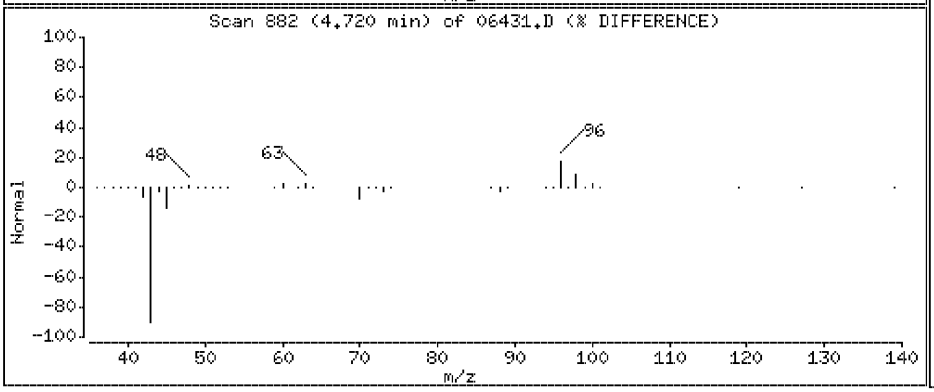
37 cis-1,2-Dichloroethene

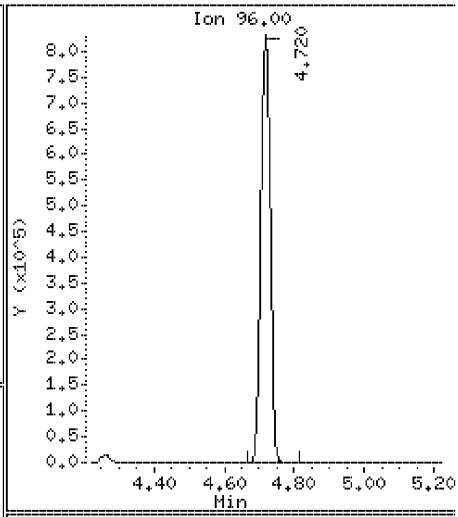
Concentration: 198 ppbv

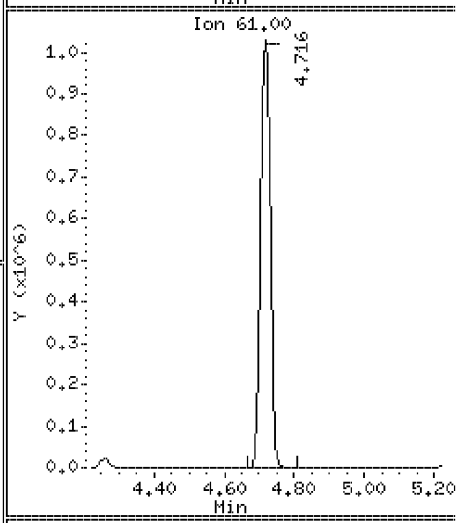


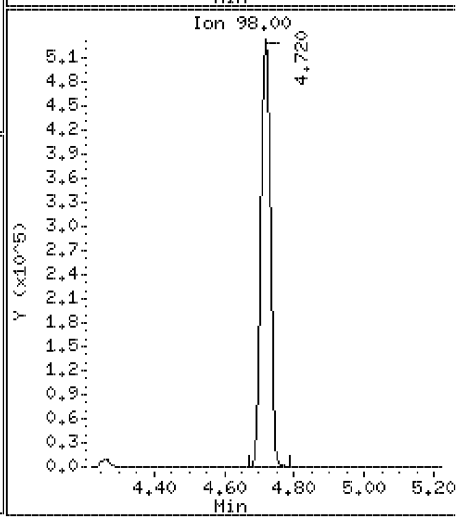












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

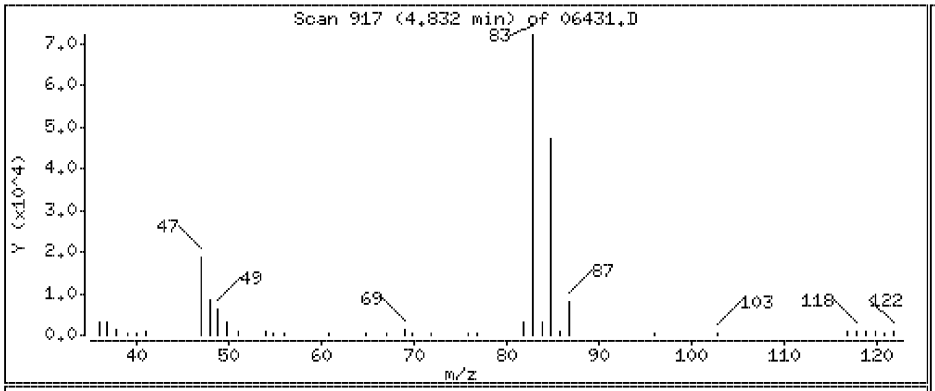
Operator: NCK

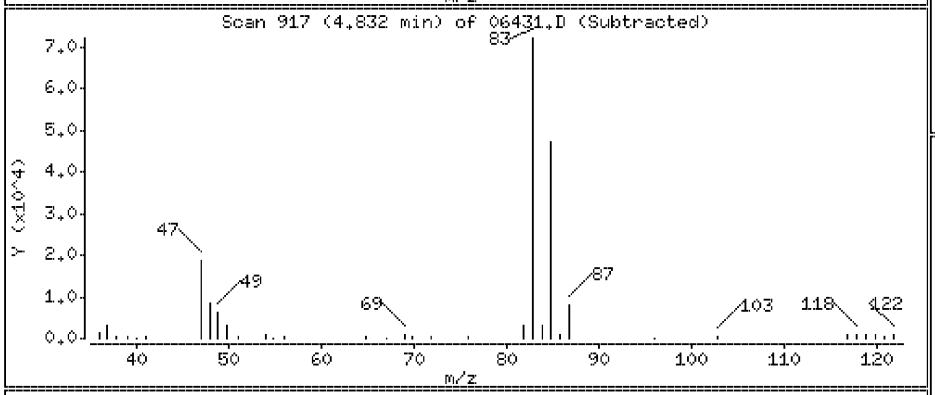
Column phase: J&W DB-5

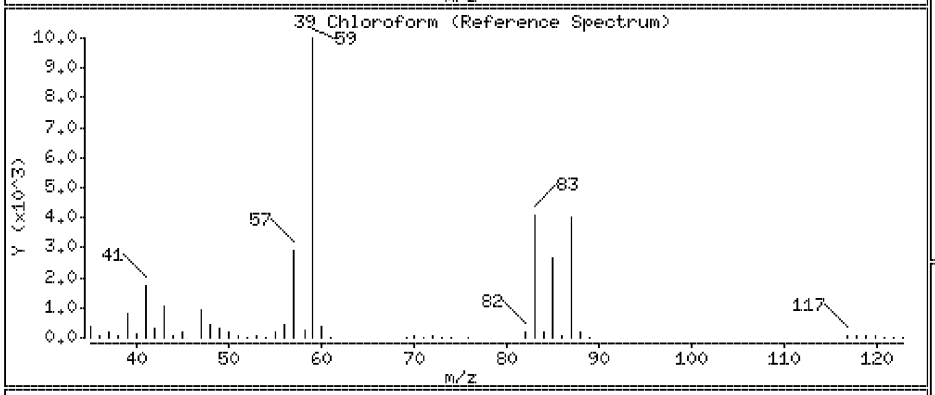
Column diameter: 0.32

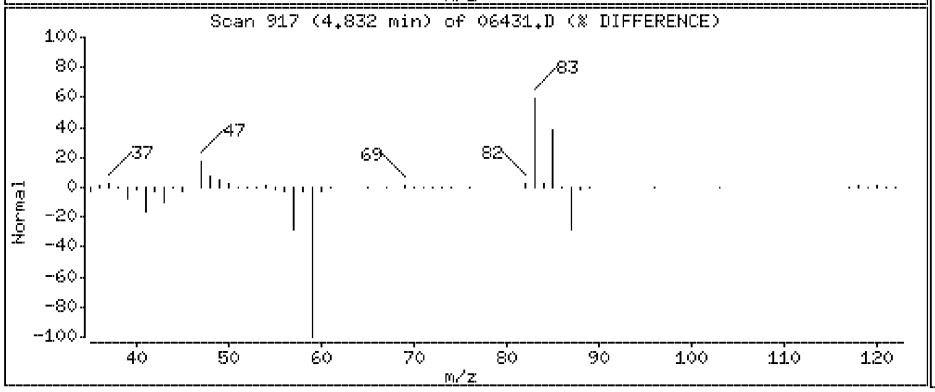
39 Chloroform

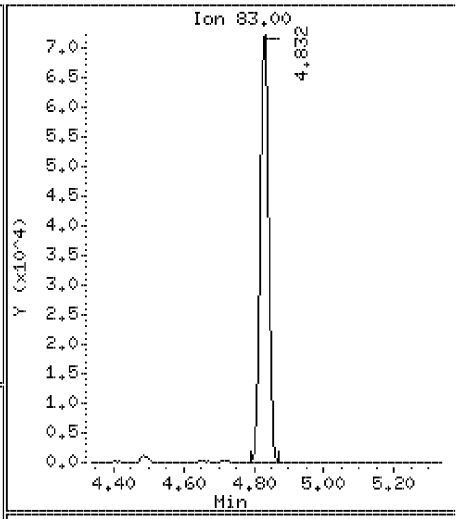
Concentration: 7.33 ppbv

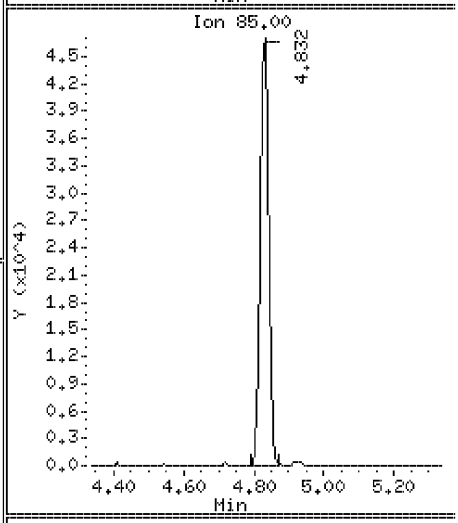


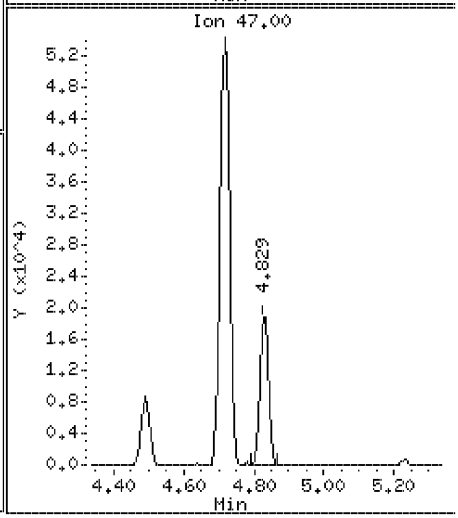












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

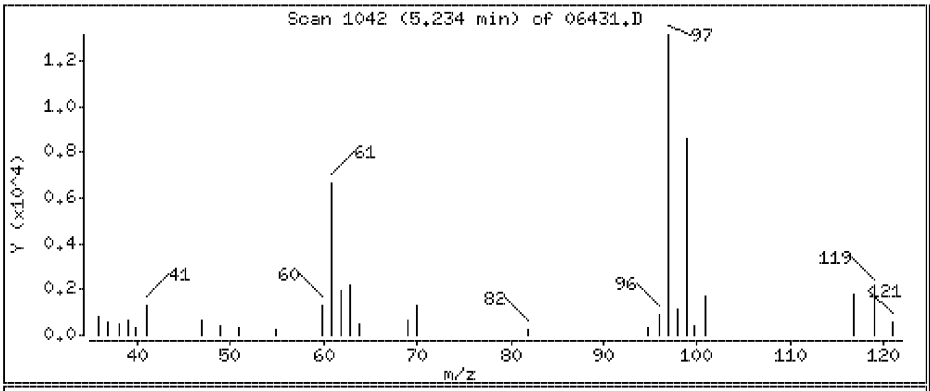
Operator: NCK

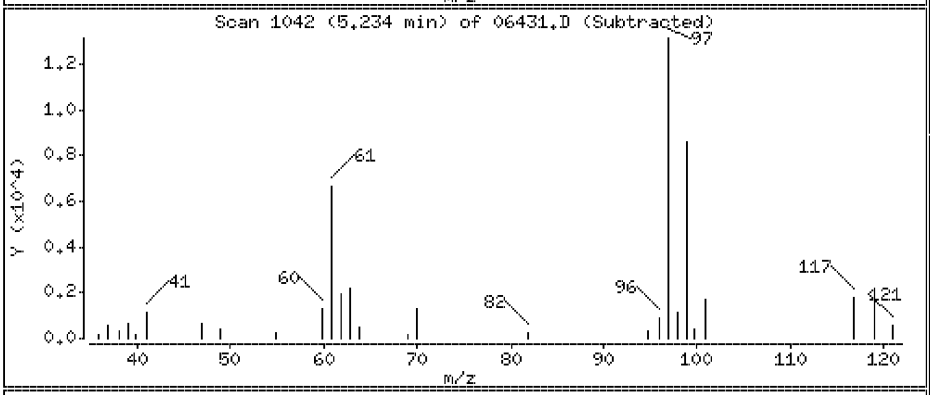
Column phase: J&W DB-5

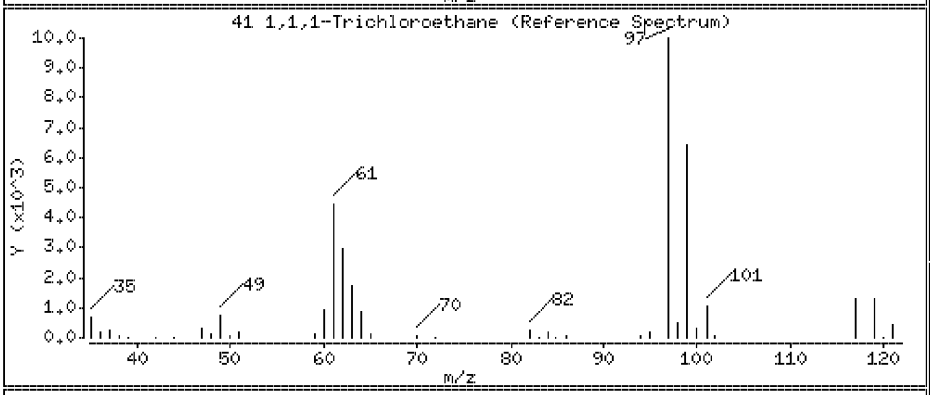
Column diameter: 0.32

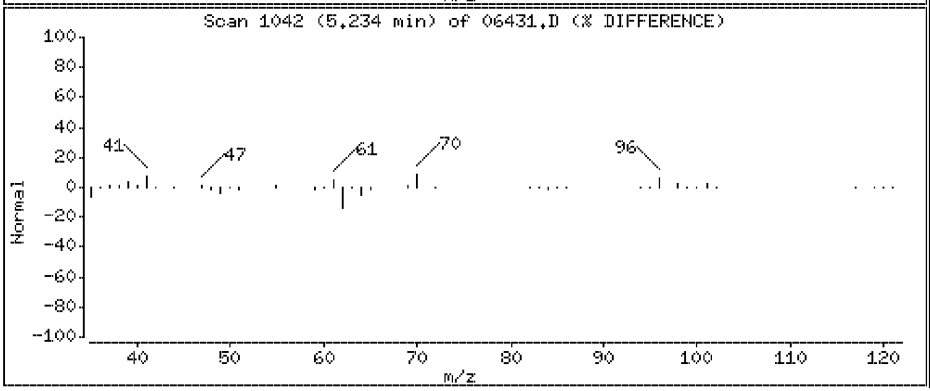
41 1,1,1-Trichloroethane

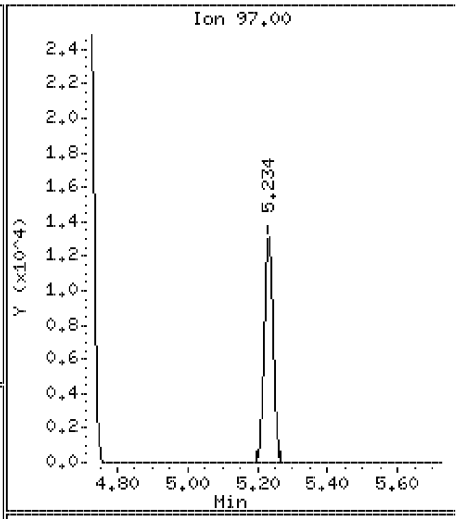
Concentration: 1.21 ppbv

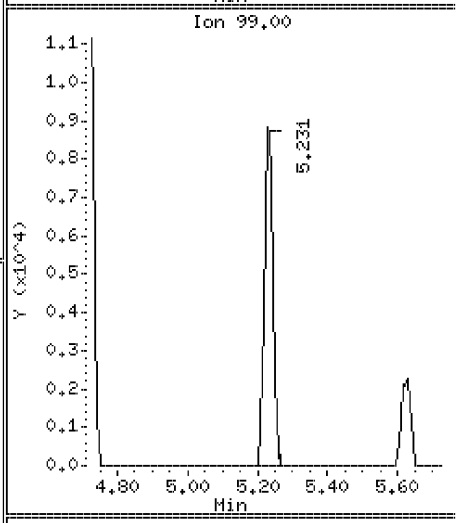


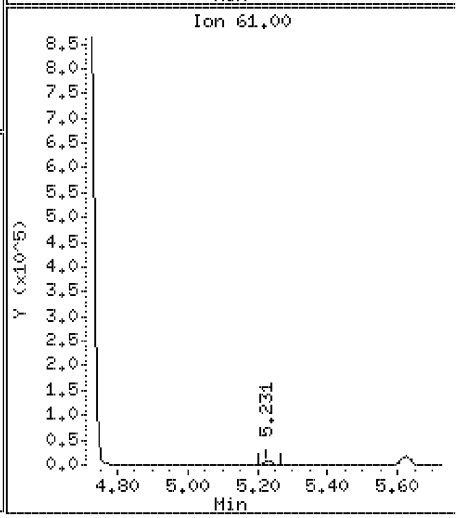












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

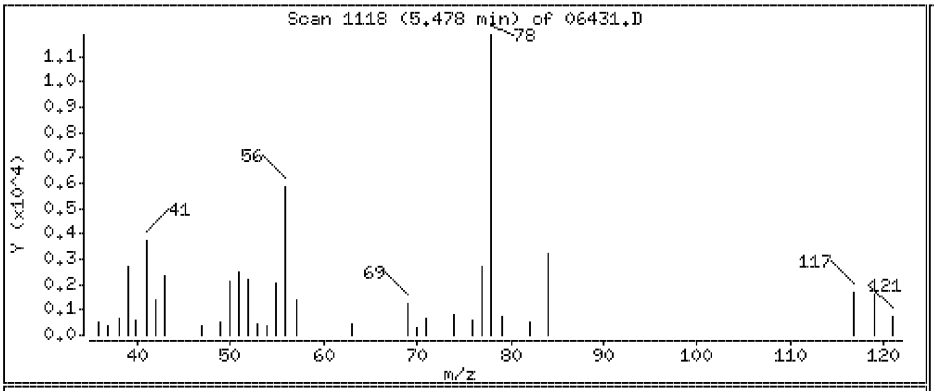
Operator: NCK

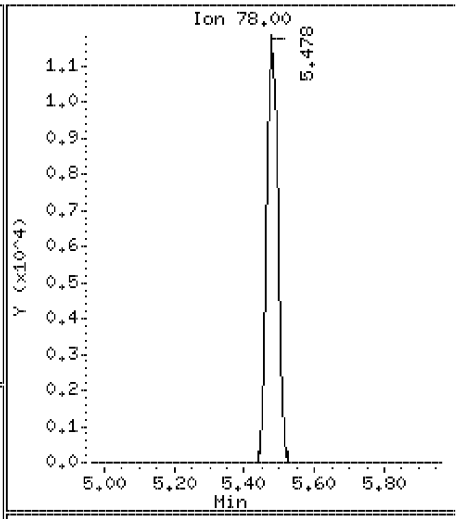
Column phase: J&W DB-5

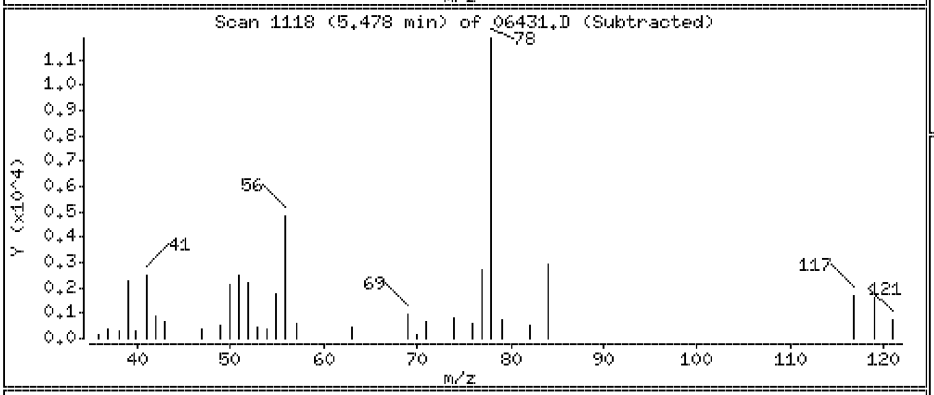
Column diameter: 0.32

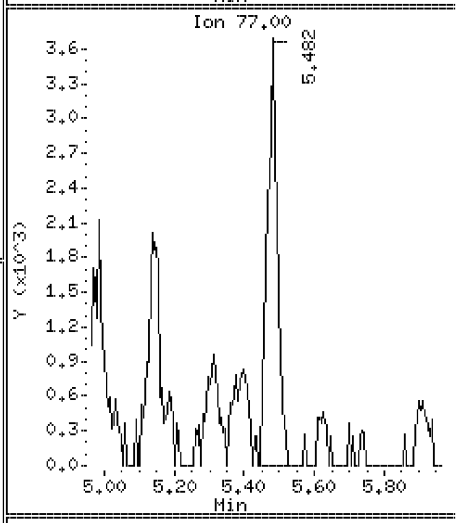
43 Benzene

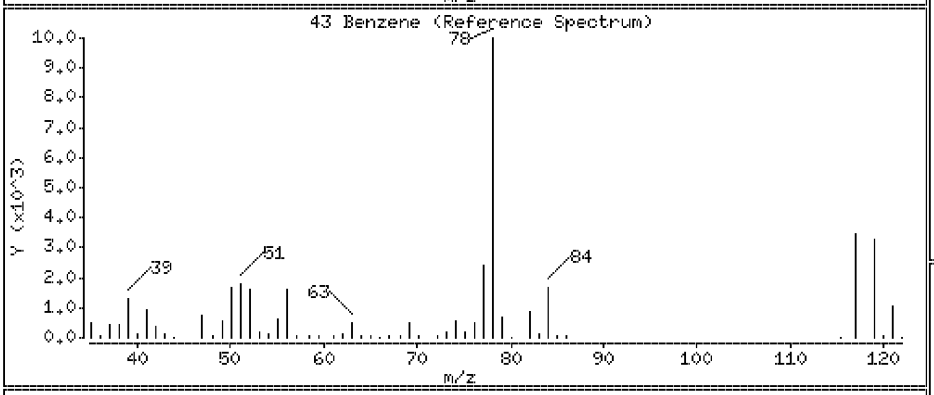
Concentration: 1.05 ppbv

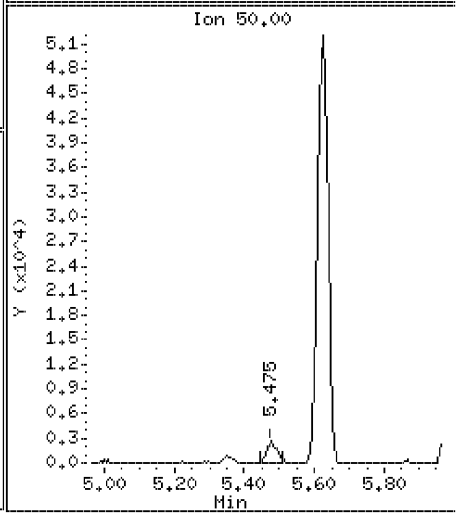


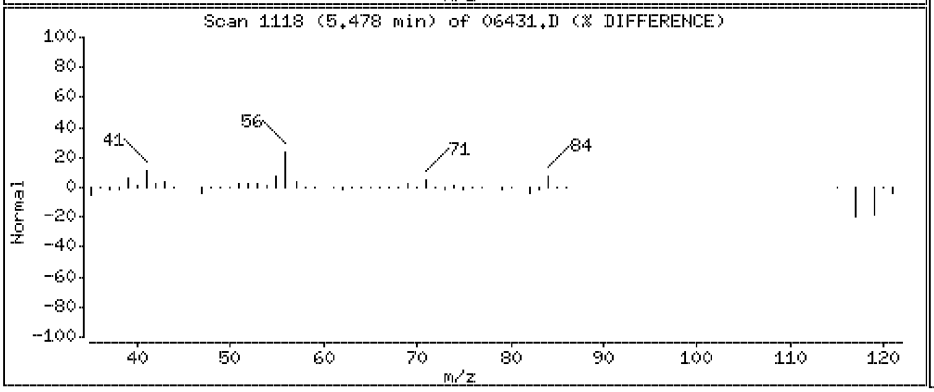












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

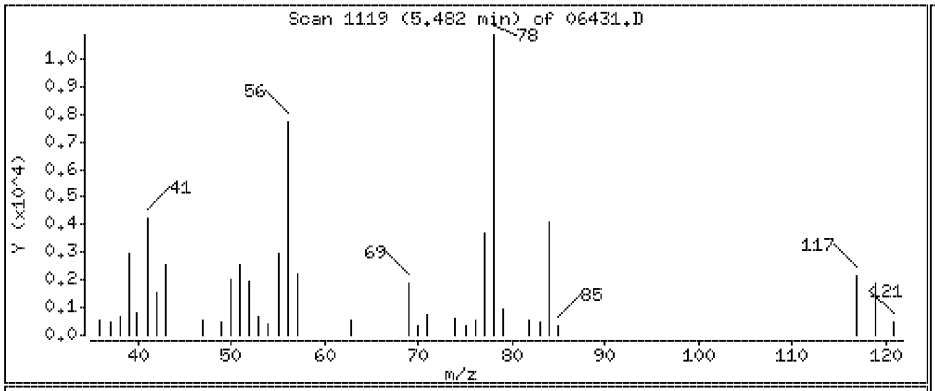
Operator: NCK

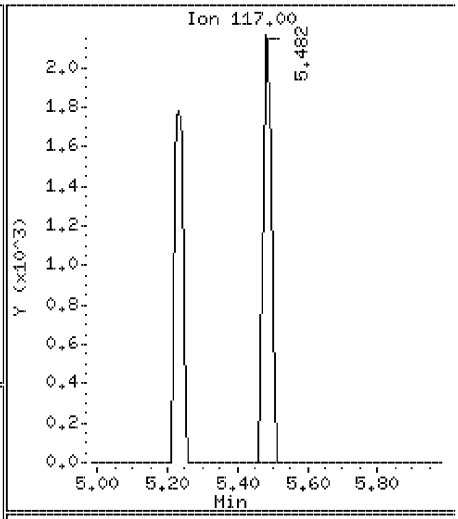
Column phase: J&W DB-5

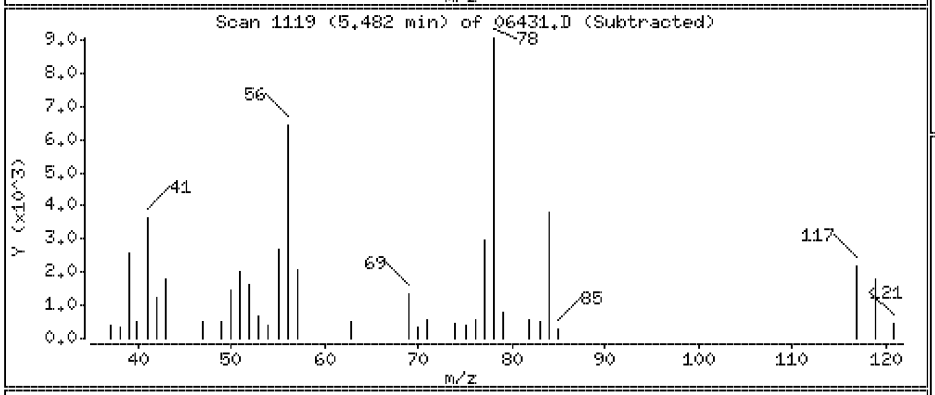
Column diameter: 0.32

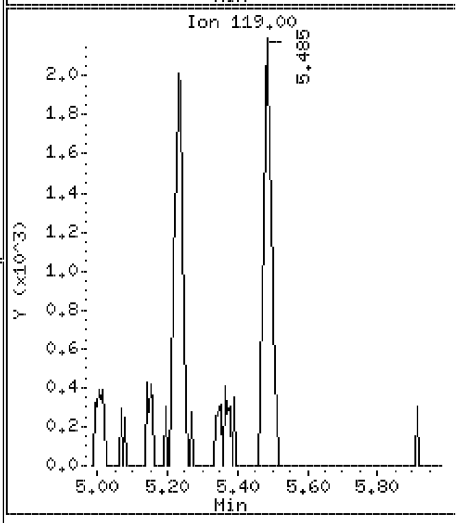
44 Carbon tetrachloride

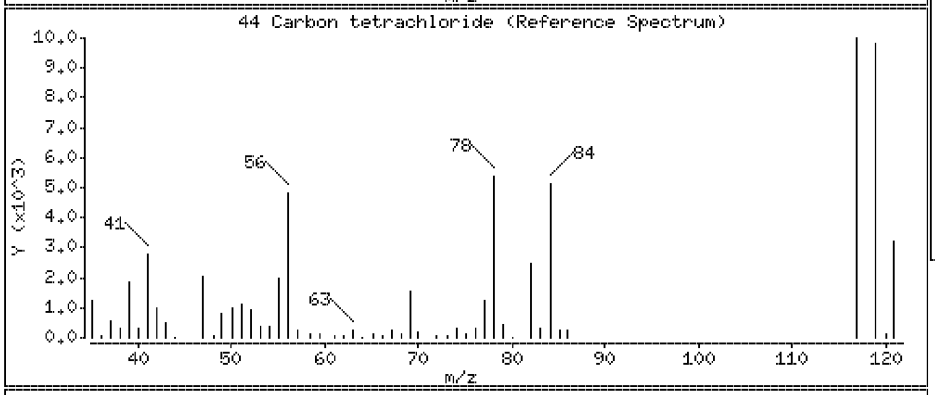
Concentration: 0.184 ppbv

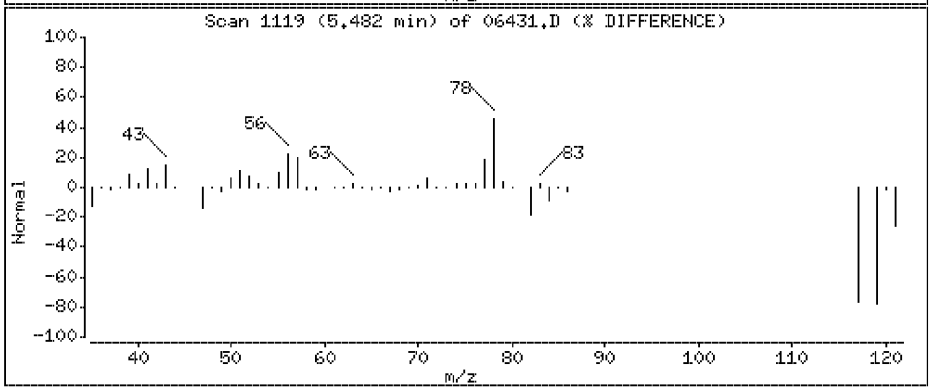












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

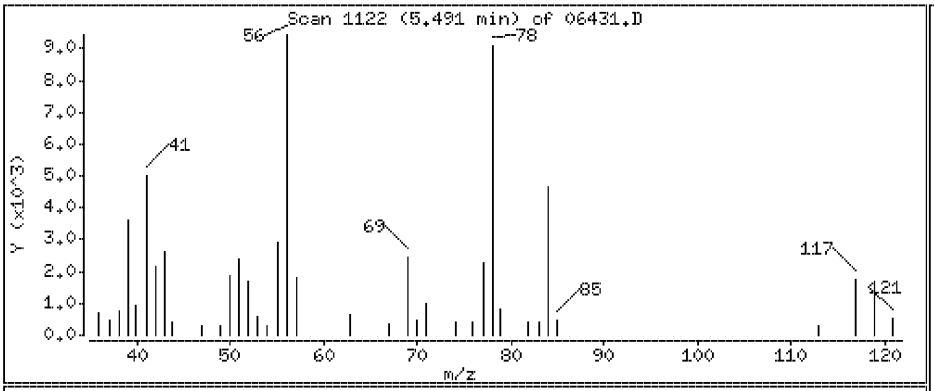
Operator: NCK

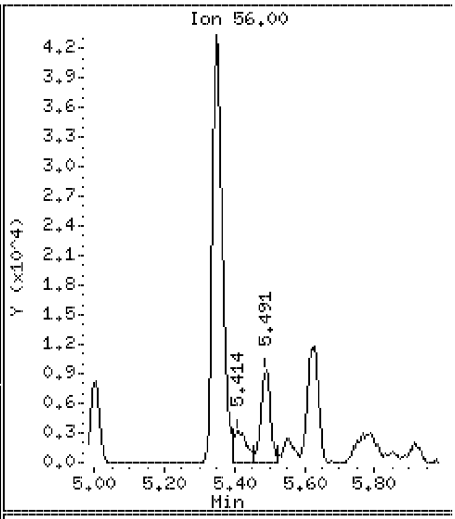
Column phase: J&W DB-5

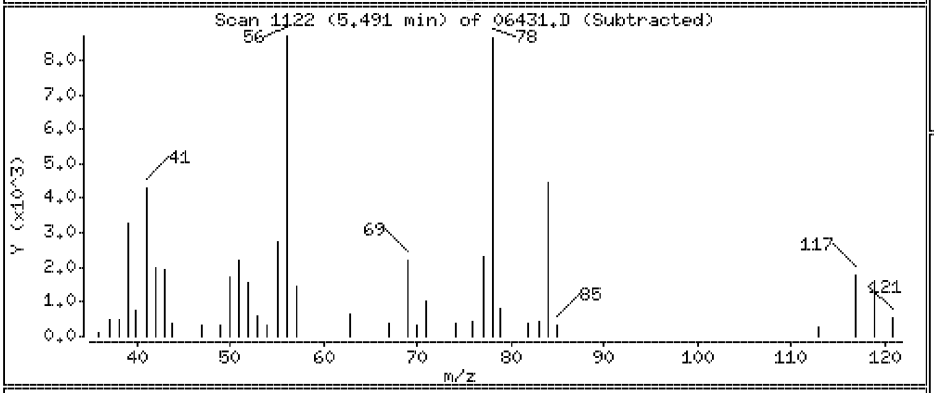
Column diameter: 0.32

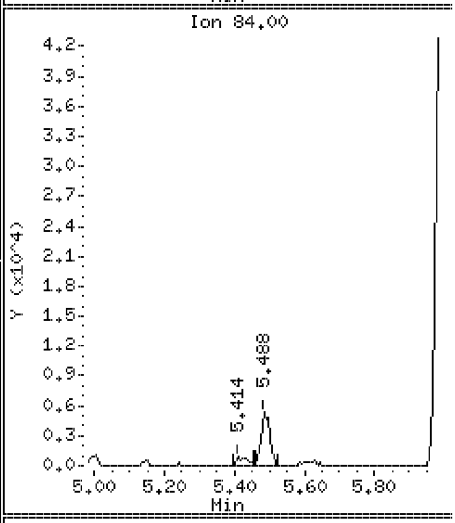
45 Cyclohexane

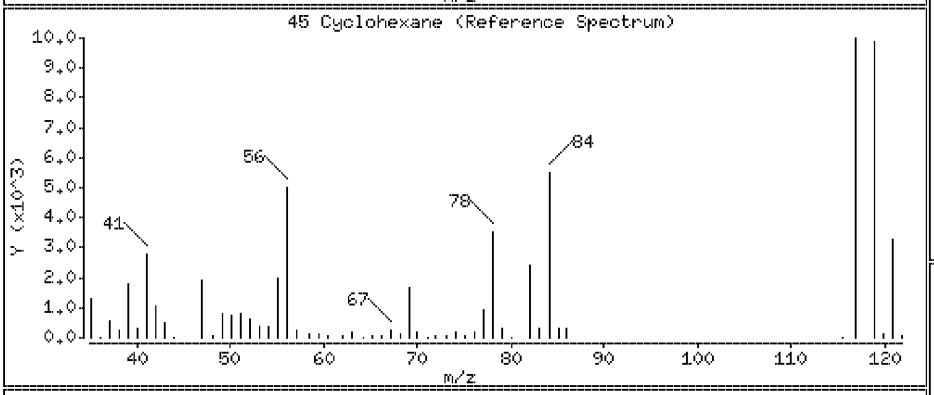
Concentration: 1.42 ppbv

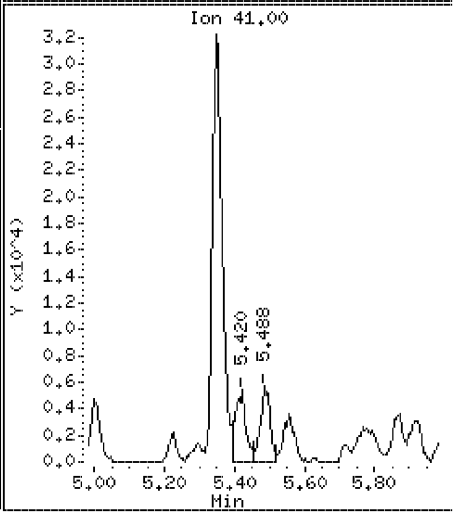


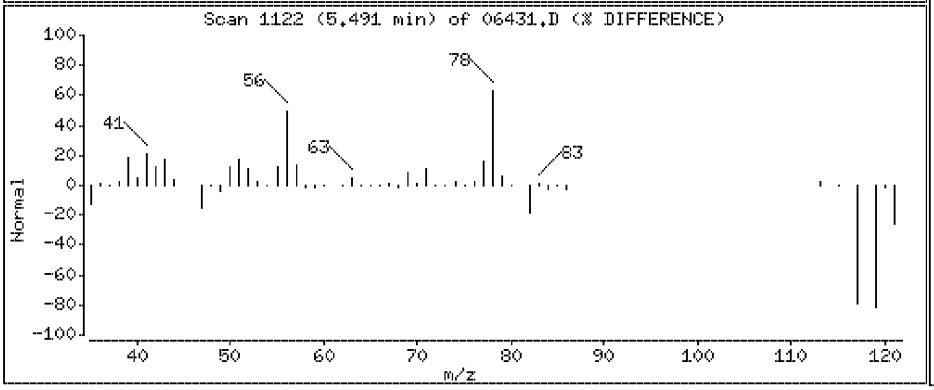












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

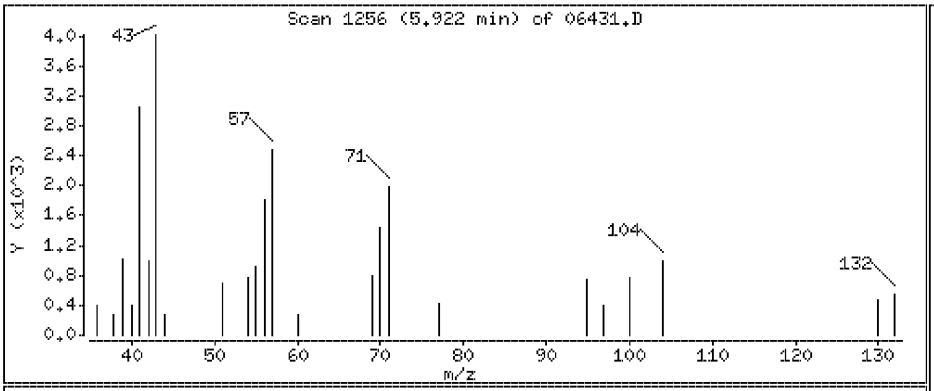
Operator: NCK

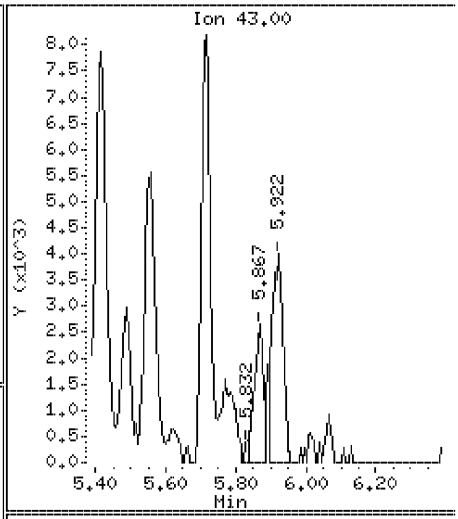
Column phase: J&W DB-5

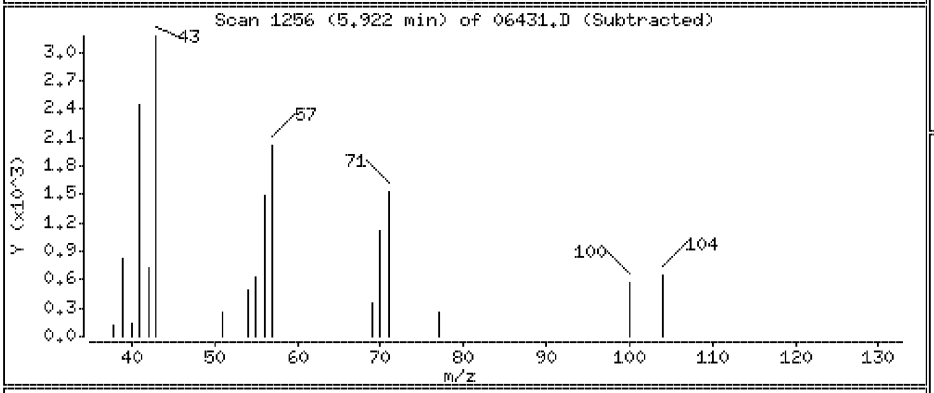
Column diameter: 0.32

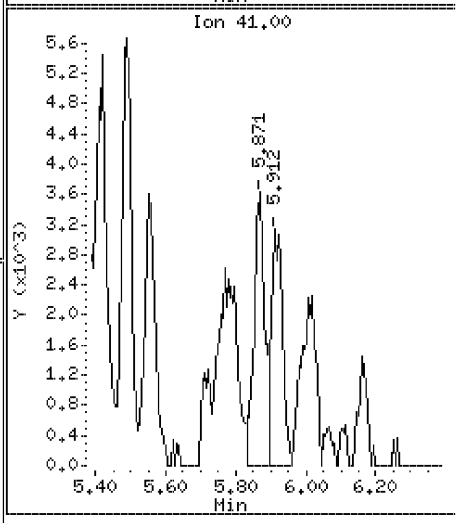
49 Heptane

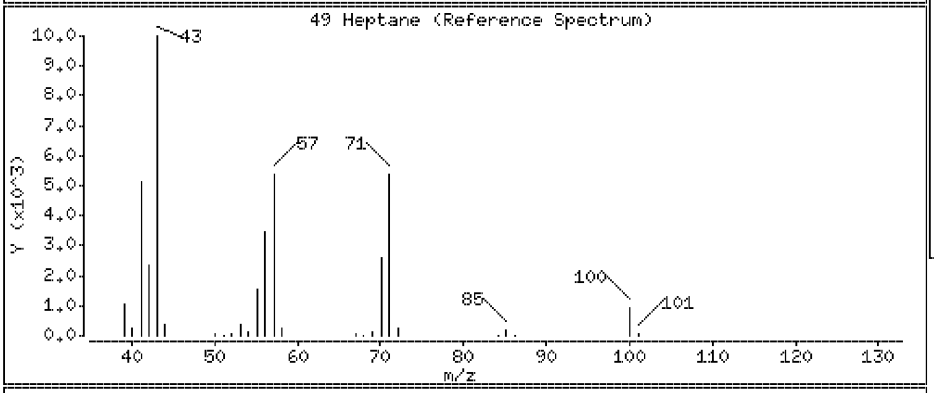
Concentration: 0.611 ppbv

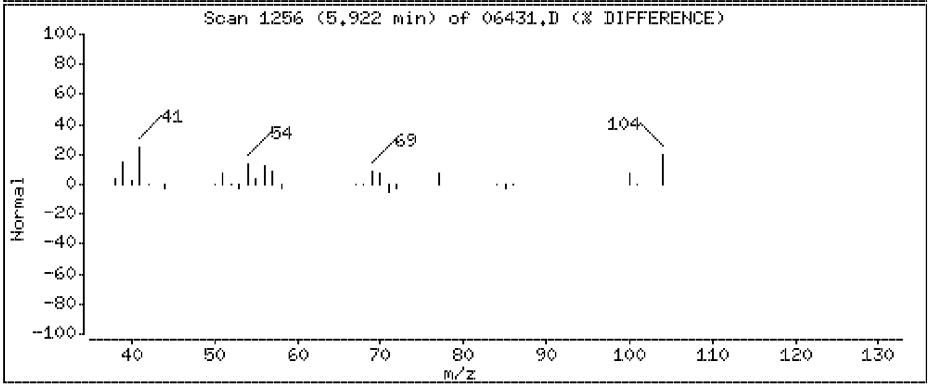












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

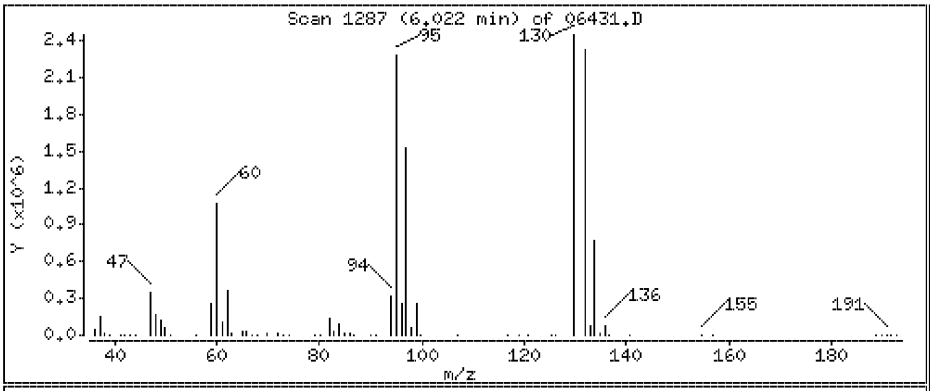
Operator: NCK

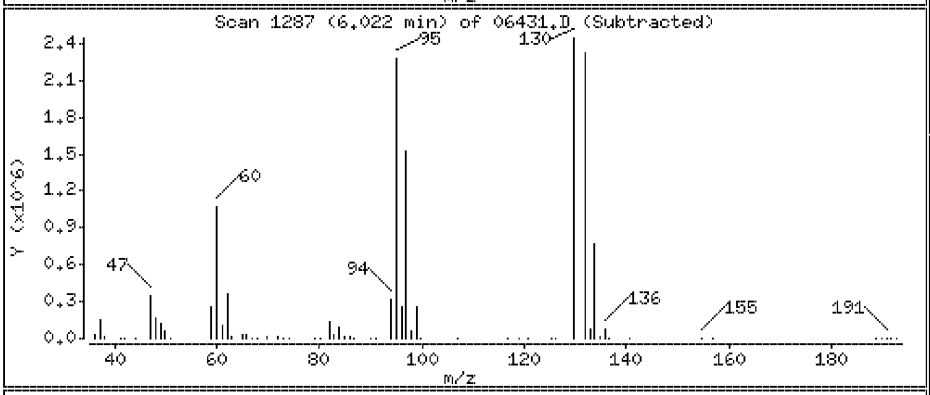
Column phase: J&W DB-5

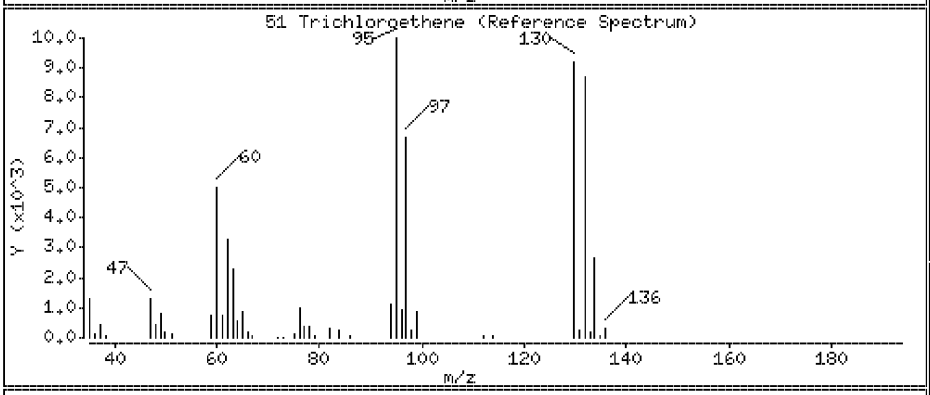
Column diameter: 0.32

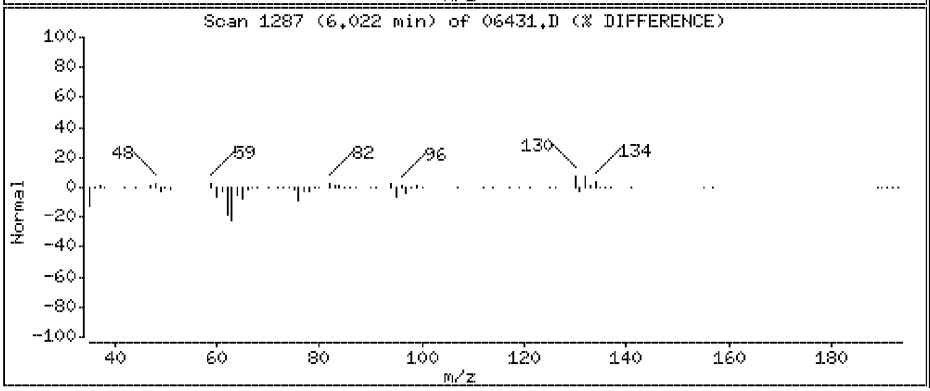
51 Trichloroethene

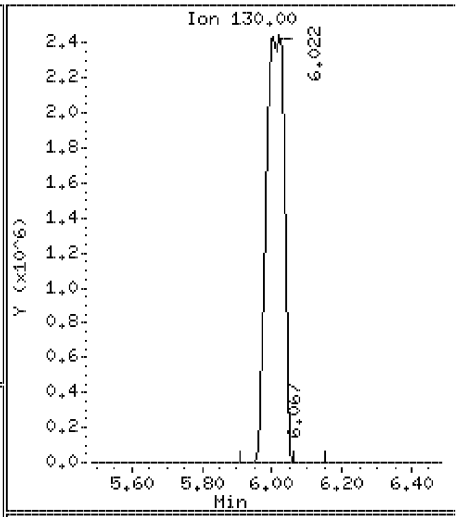
Concentration: 674 ppbv

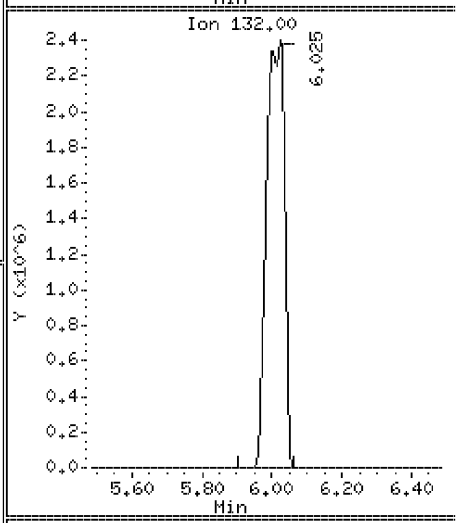


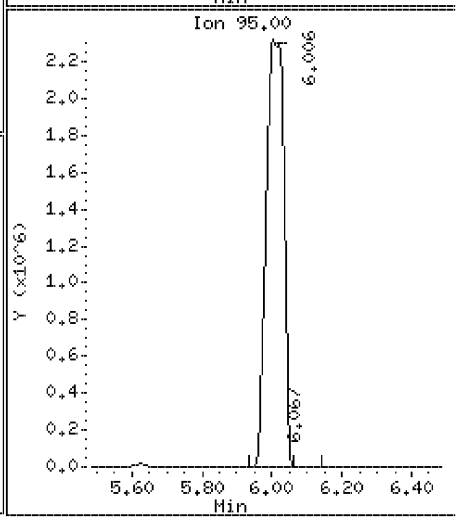












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

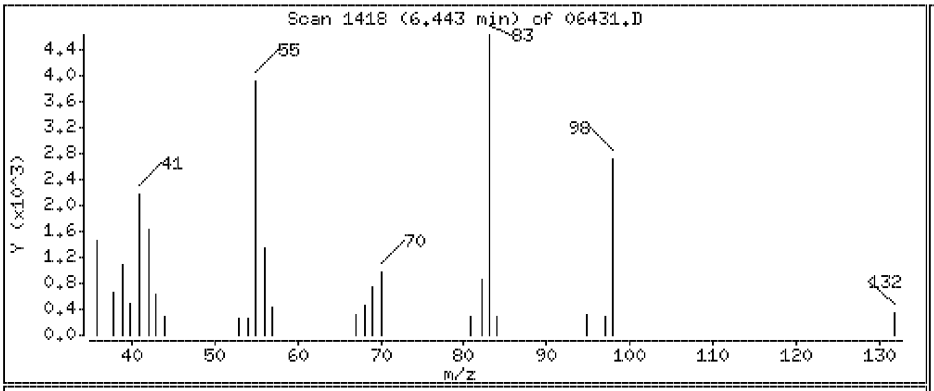
Operator: NCK

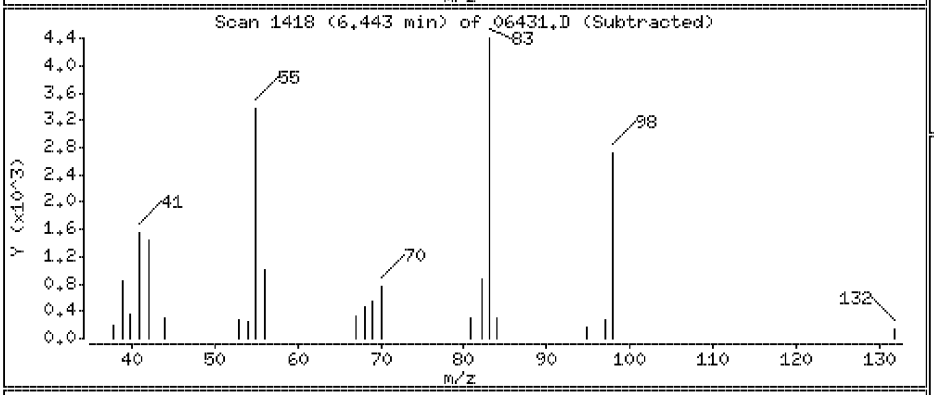
Column phase: J&W DB-5

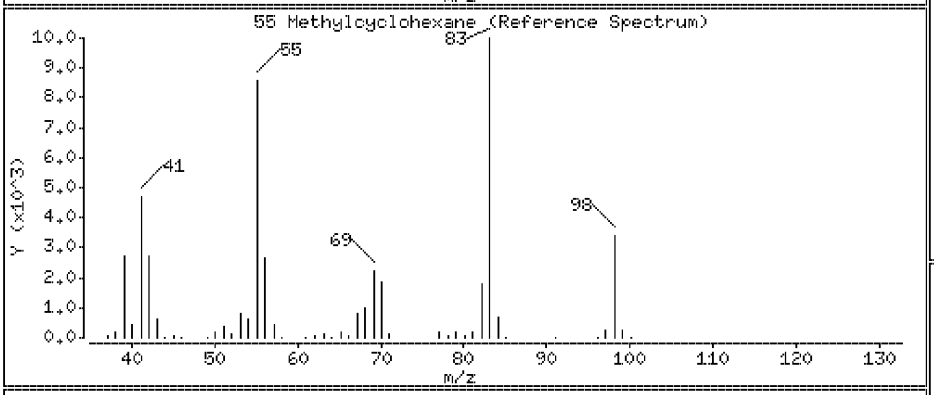
Column diameter: 0.32

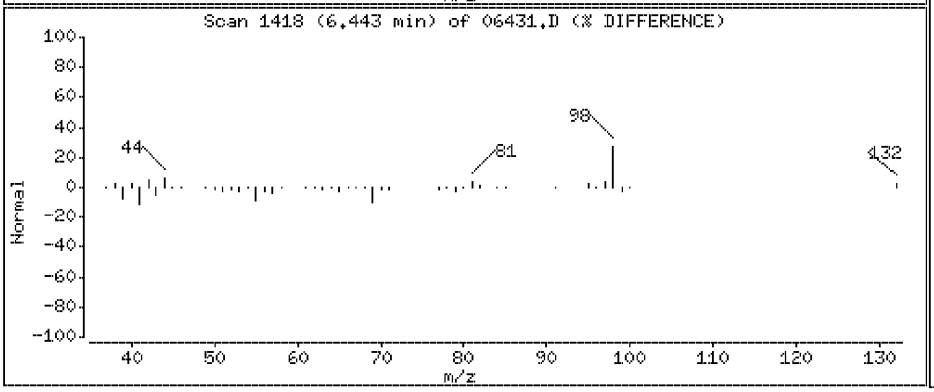
55 Methylcyclohexane

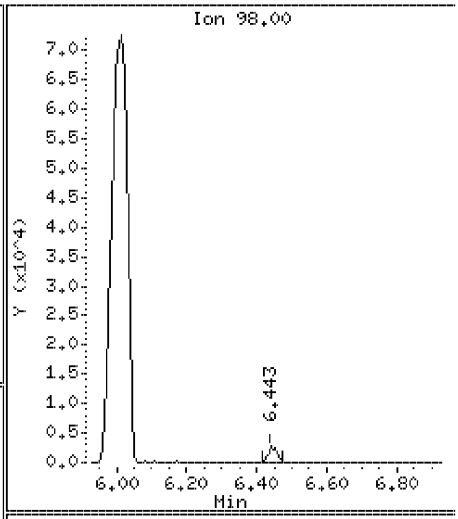
Concentration: 0.677 ppbv

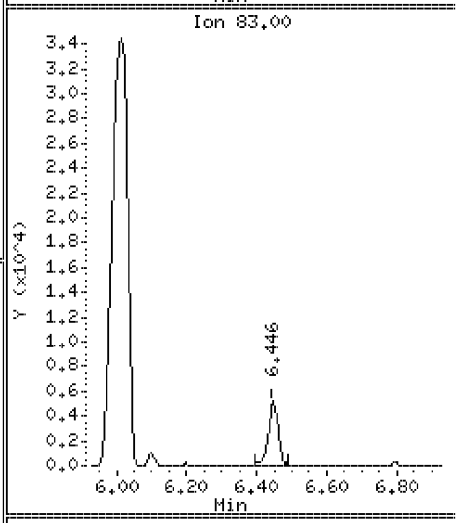


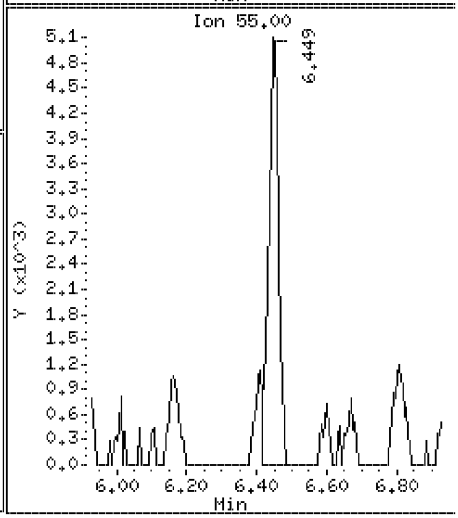












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

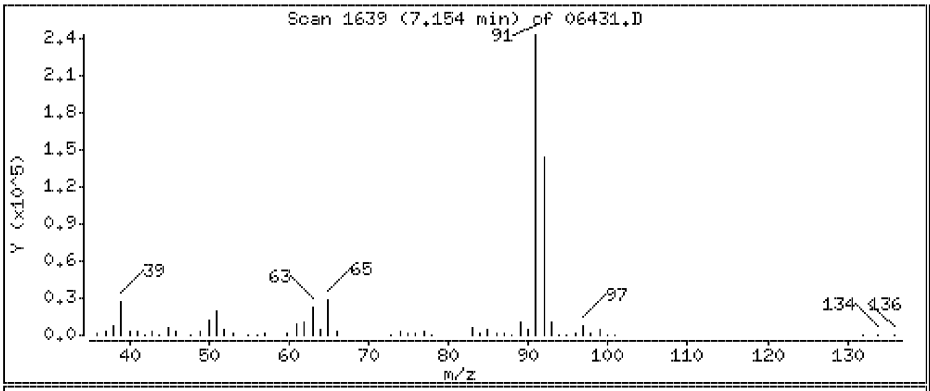
Operator: NCK

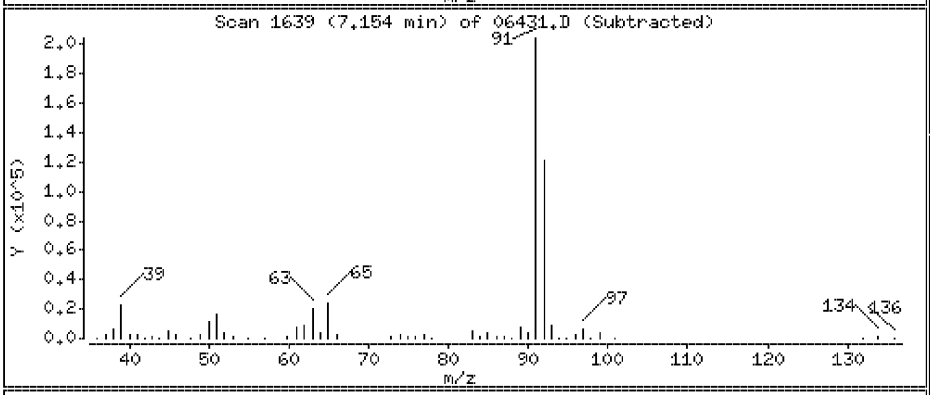
Column phase: J&W DB-5

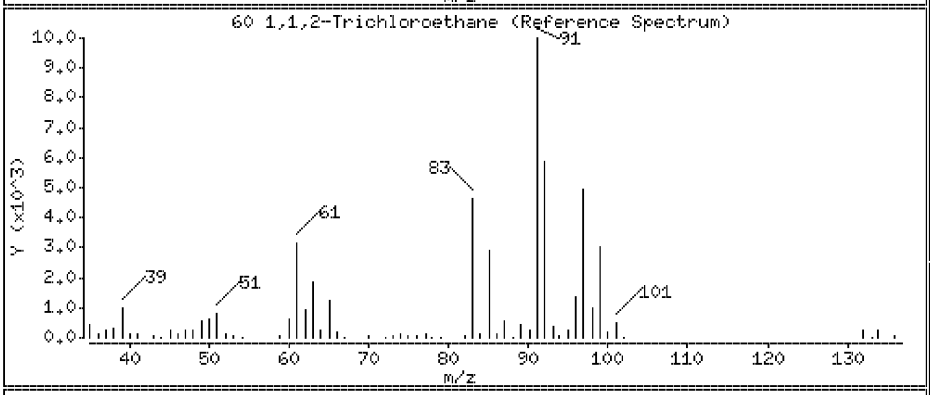
Column diameter: 0.32

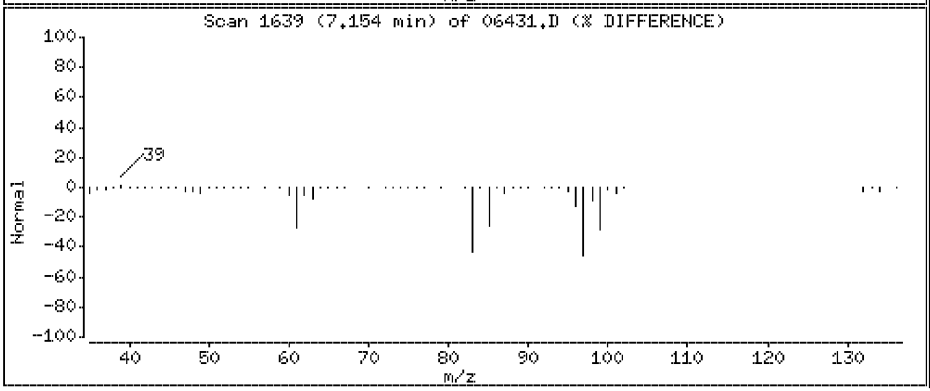
60 1,1,2-Trichloroethane

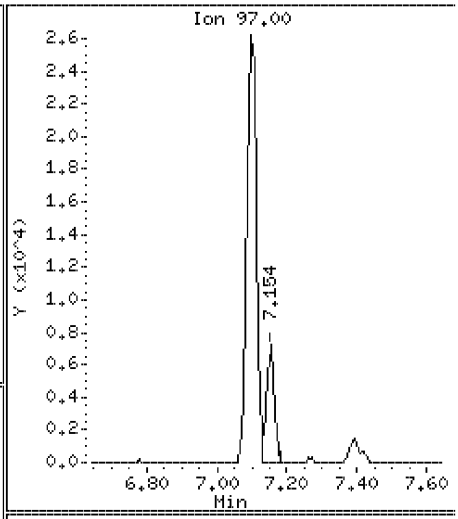
Concentration: 1.02 ppbv

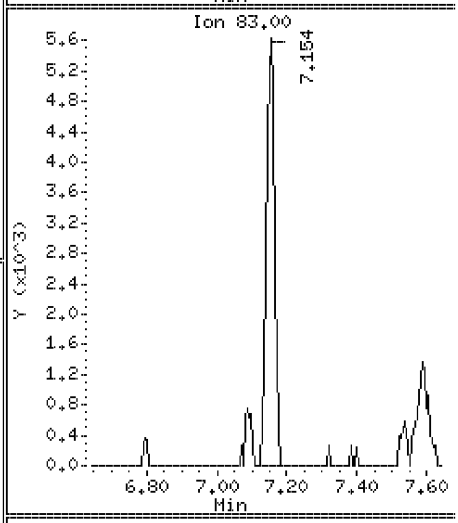


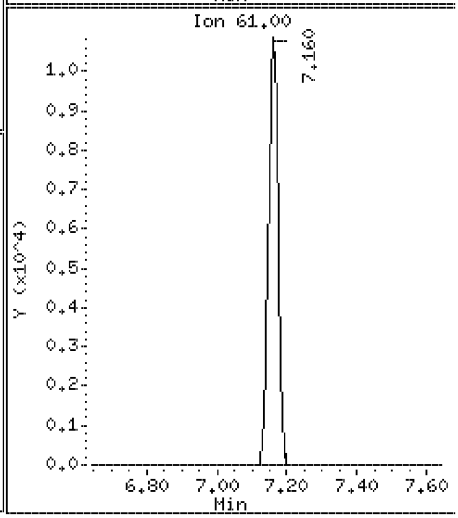












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

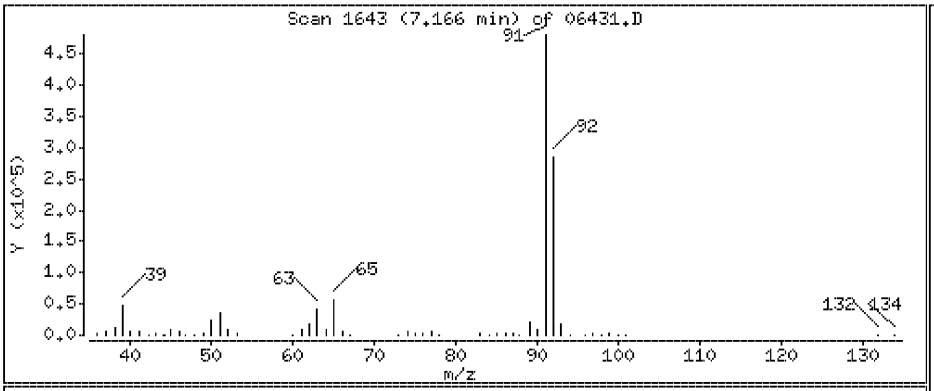
Operator: NCK

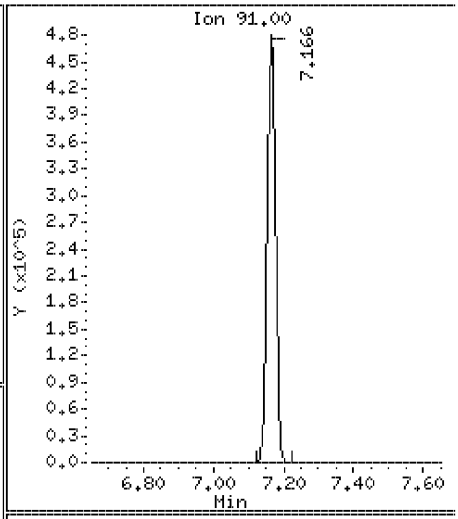
Column phase: J&W DB-5

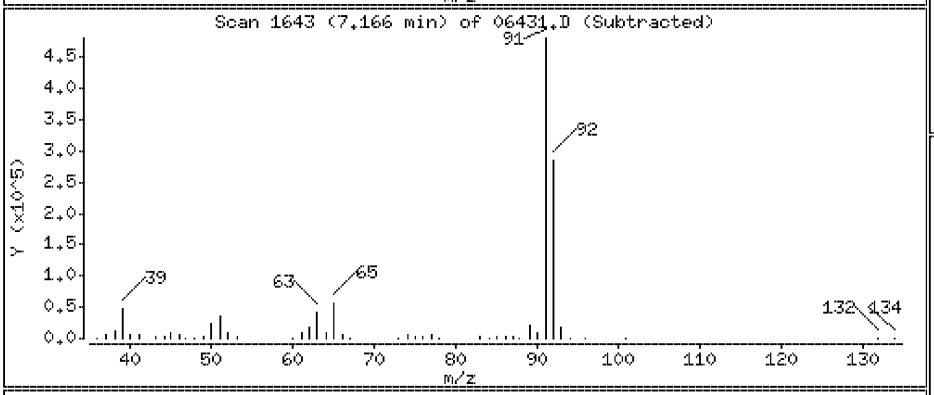
Column diameter: 0.32

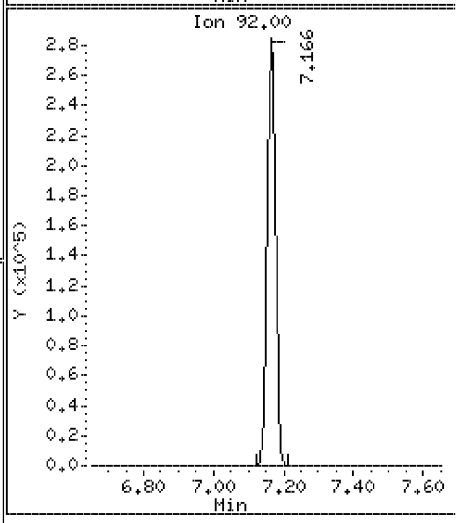
61 Toluene

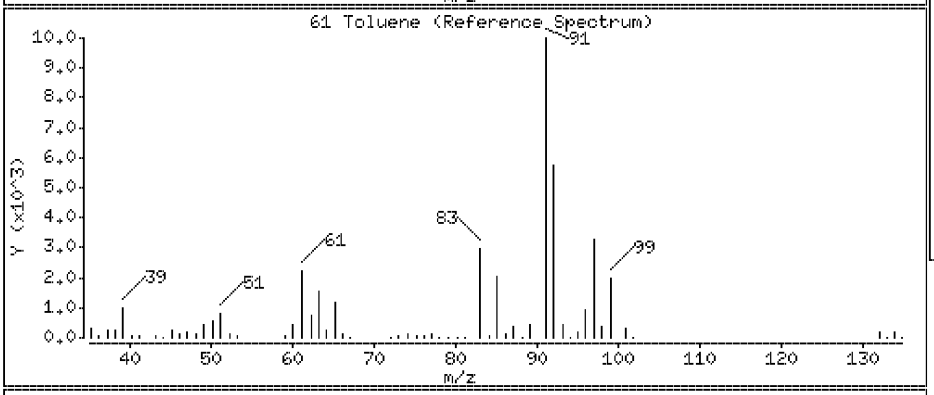
Concentration: 25.1 ppbv

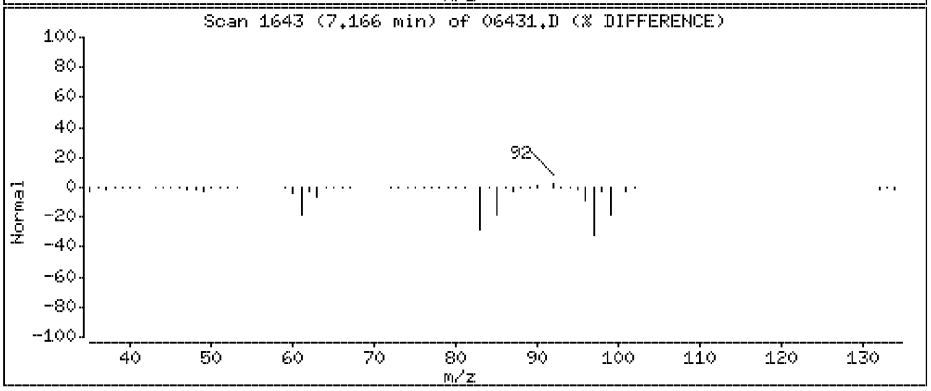












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

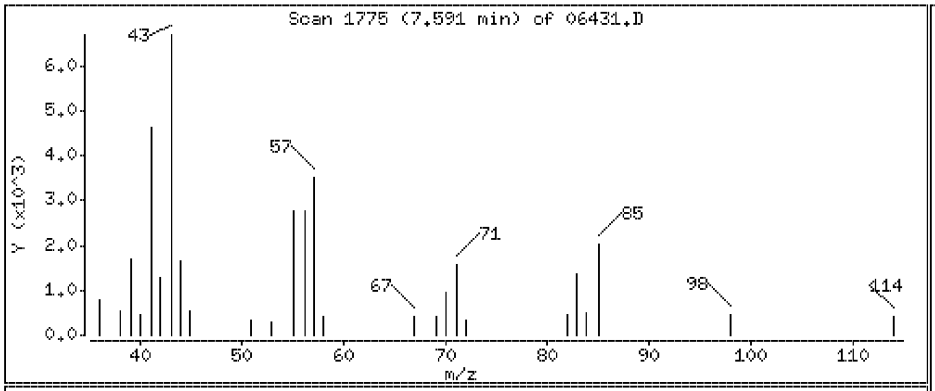
Operator: NCK

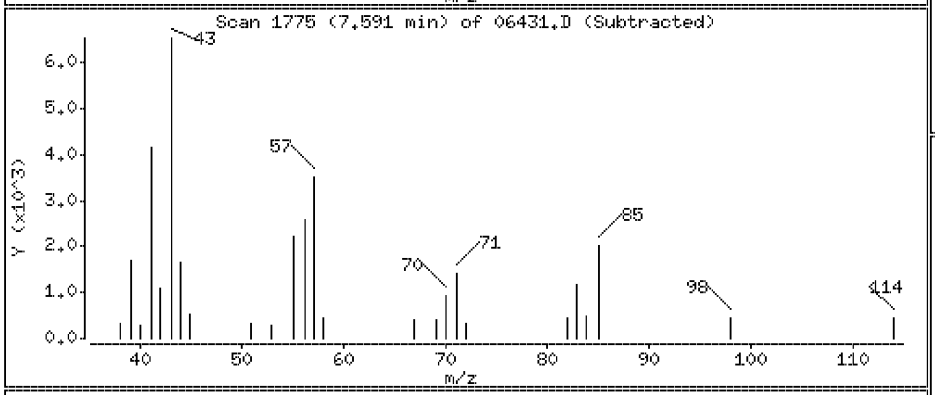
Column phase: J&W DB-5

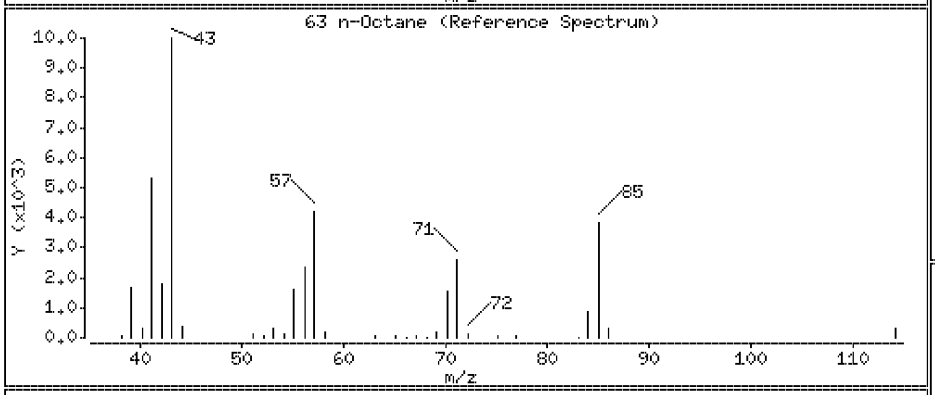
Column diameter: 0.32

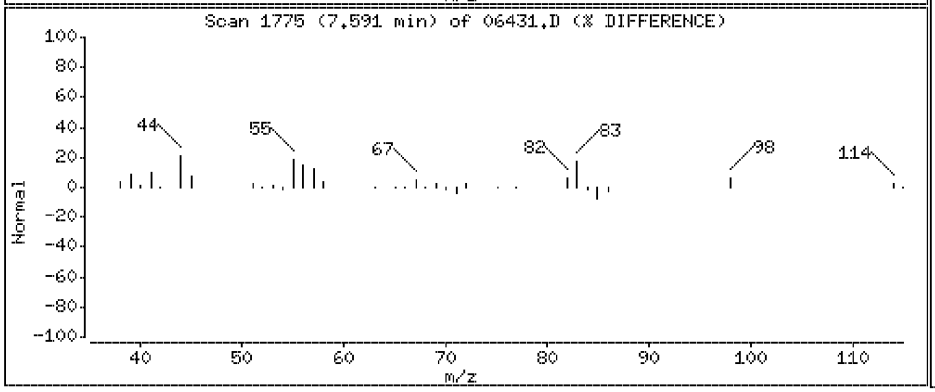
63 n-Octane

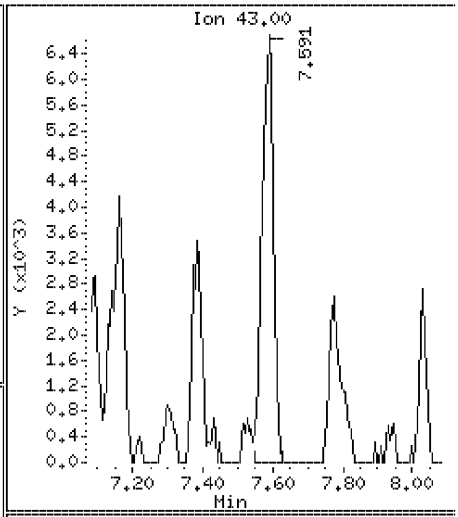
Concentration: 0.882 ppbv

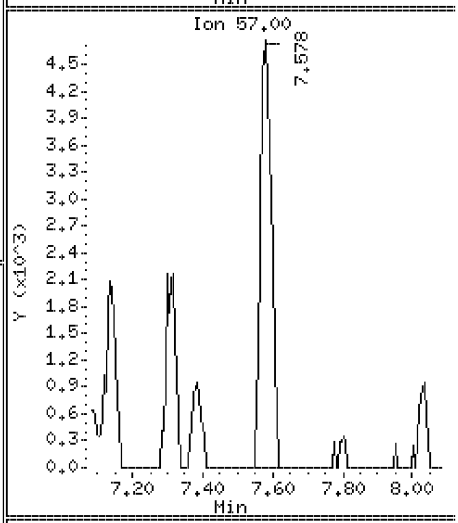


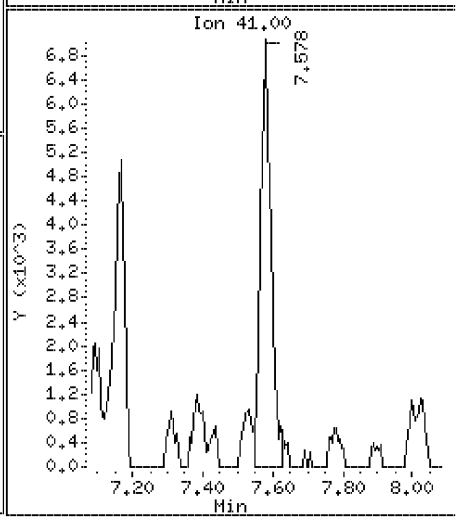












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

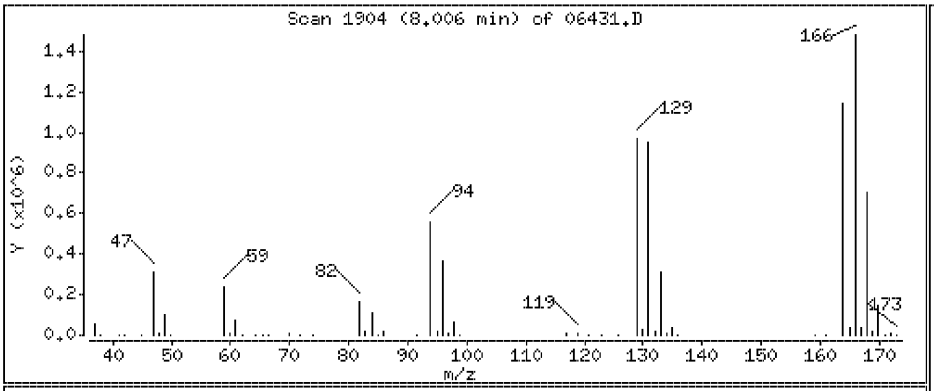
Operator: NCK

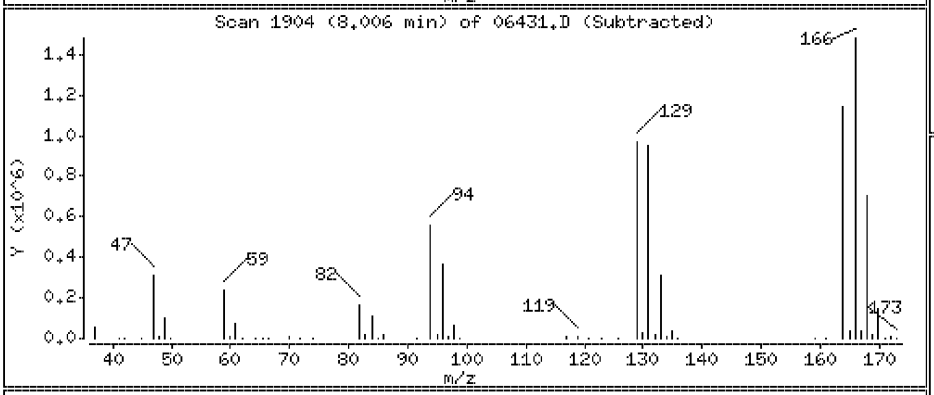
Column phase: J&W DB-5

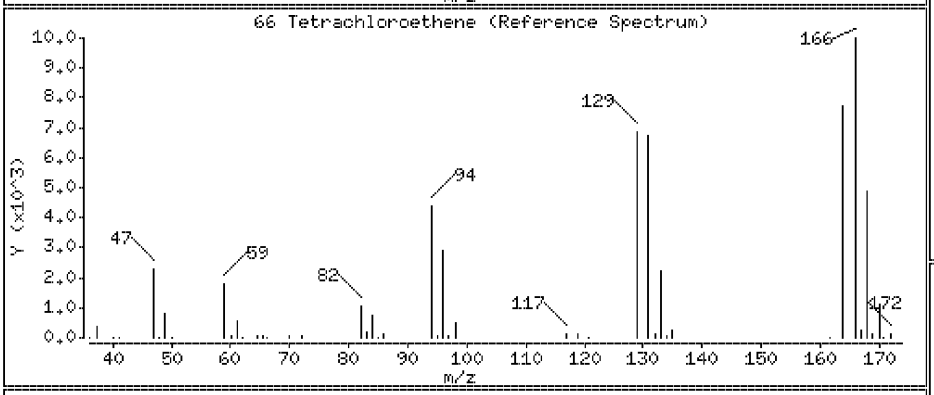
Column diameter: 0.32

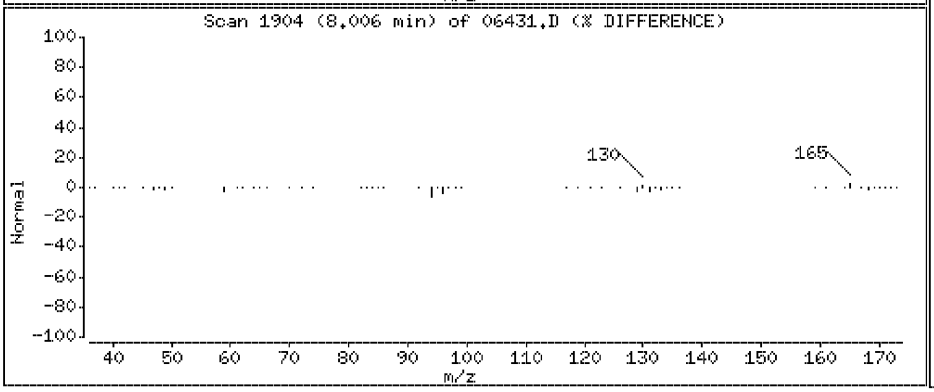
66 Tetrachloroethene

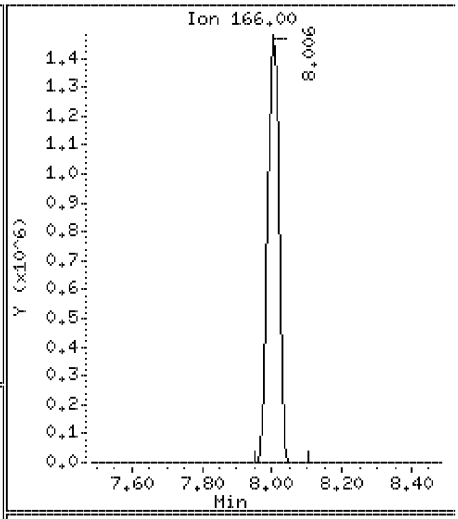
Concentration: 194 ppbv

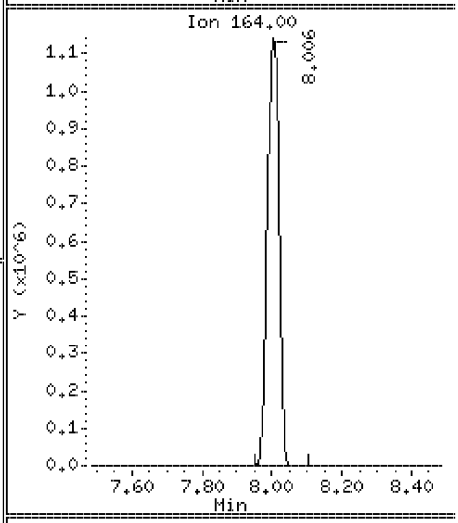


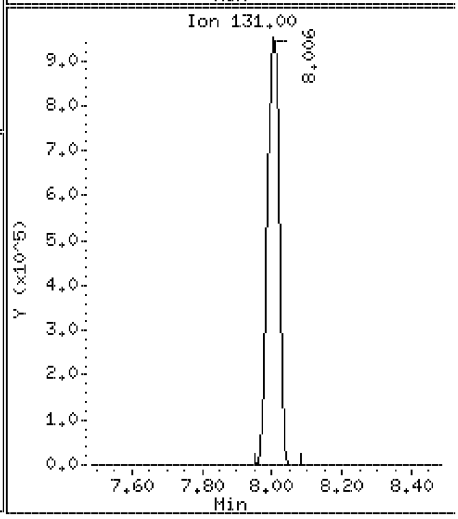












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

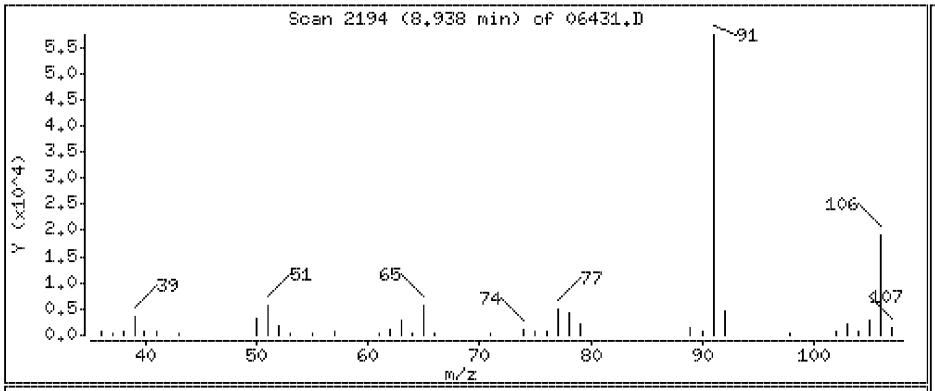
Operator: NCK

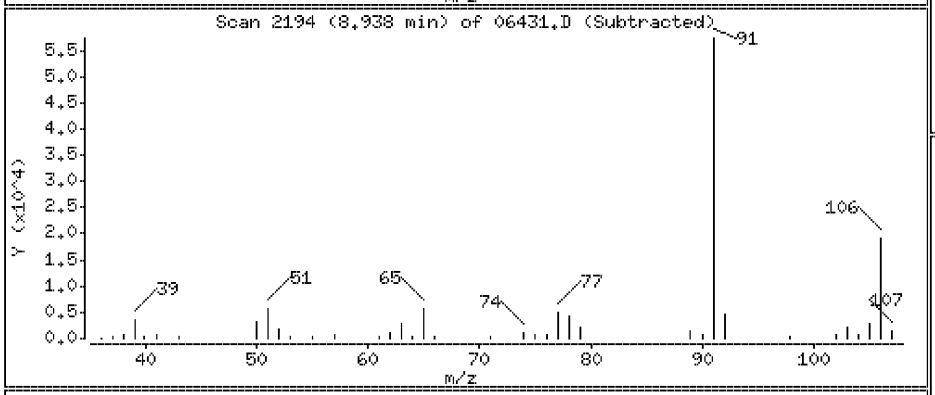
Column phase: J&W DB-5

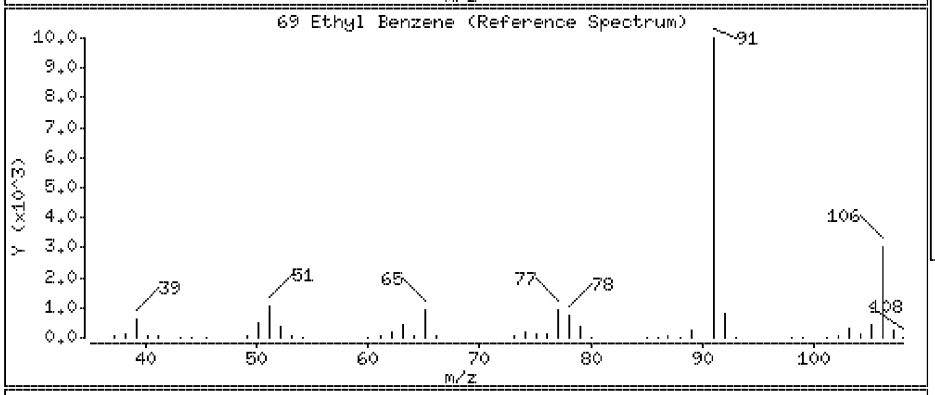
Column diameter: 0.32

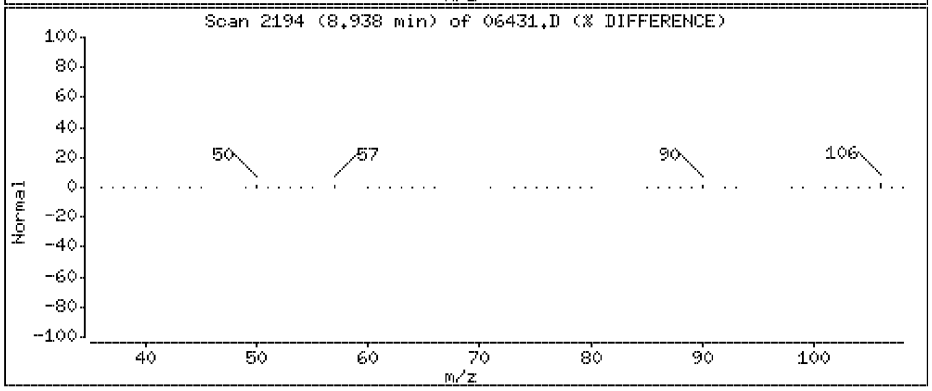
69 Ethyl Benzene

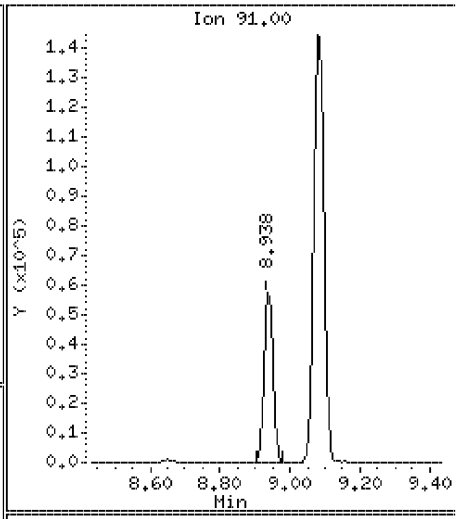
Concentration: 2.74 ppbv

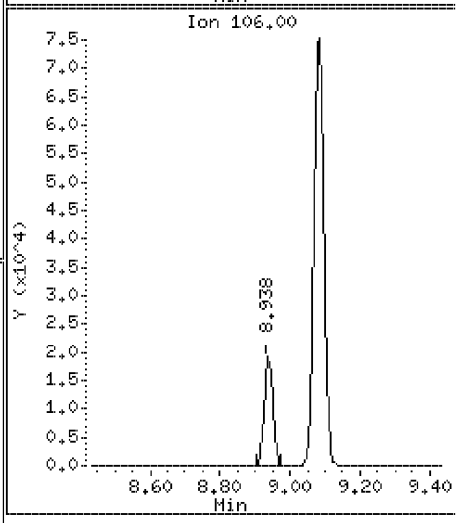












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

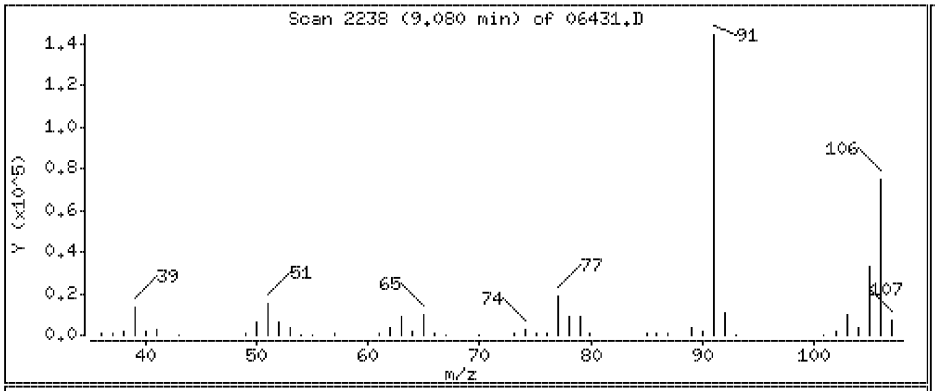
Operator: NCK

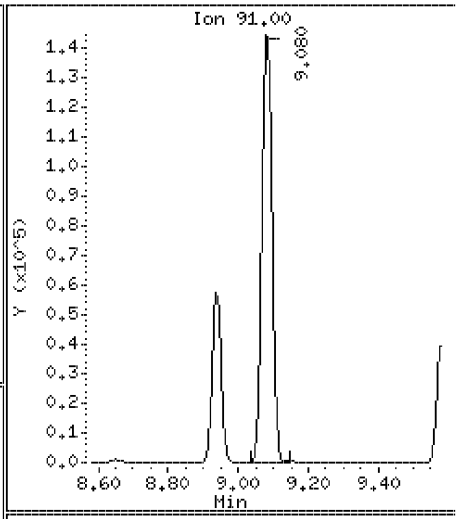
Column phase: J&W DB-5

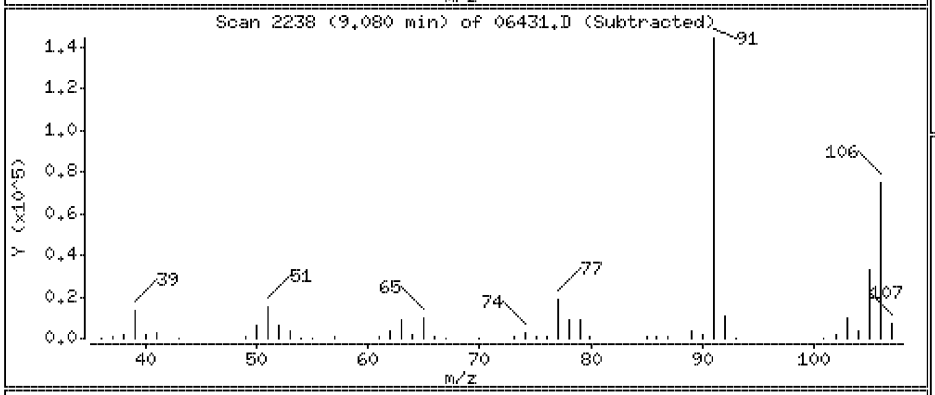
Column diameter: 0.32

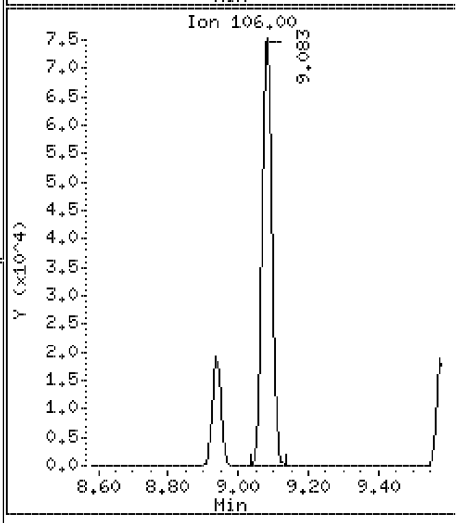
70 m&p-Xylene

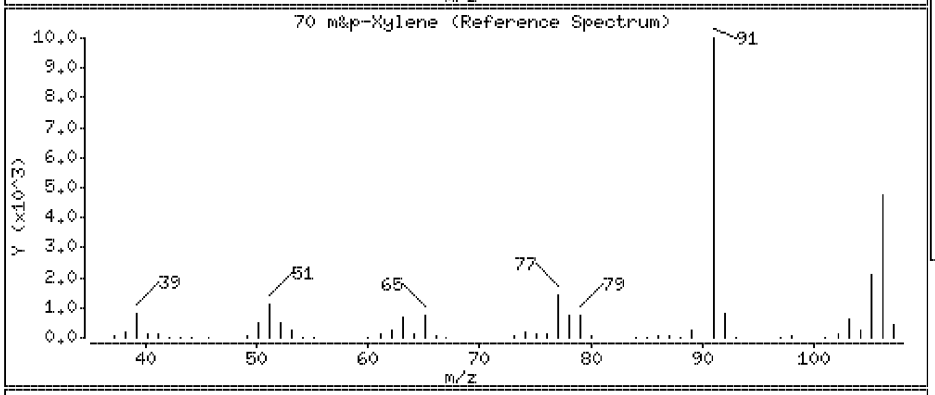
Concentration: 10.1 ppbv

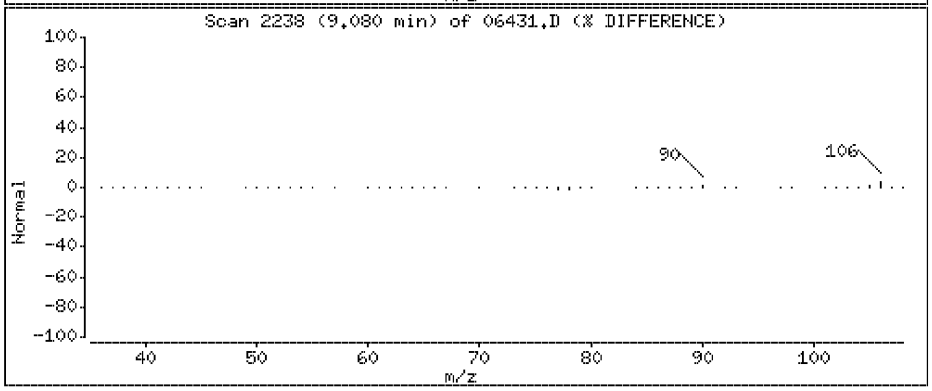












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

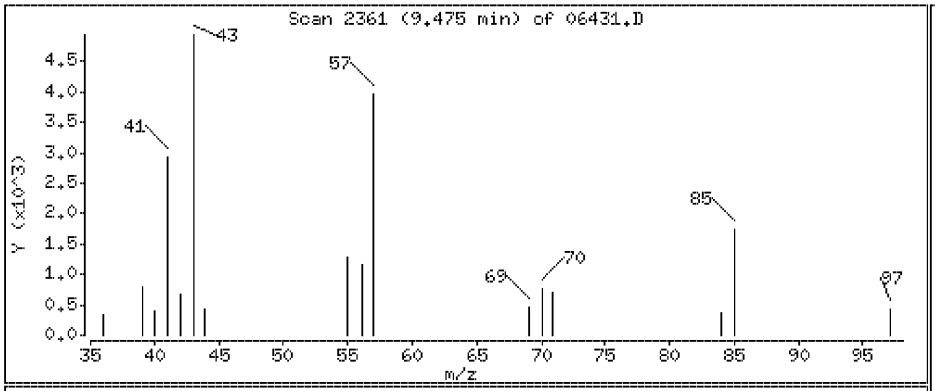
Operator: NCK

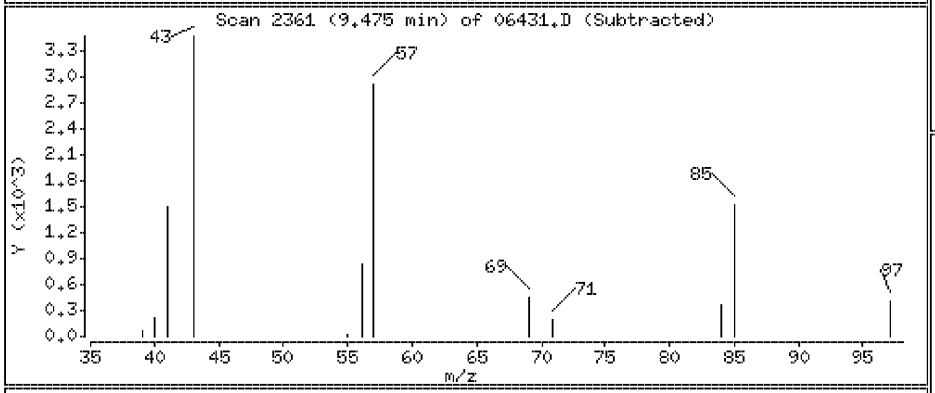
Column phase: J&W DB-5

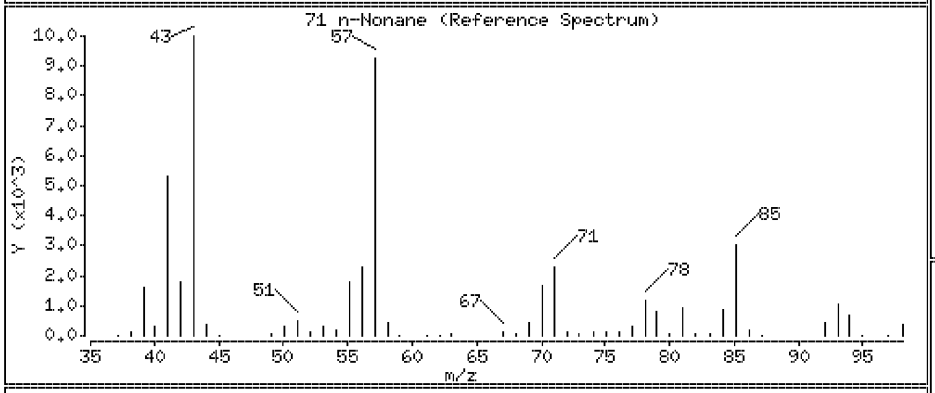
Column diameter: 0.32

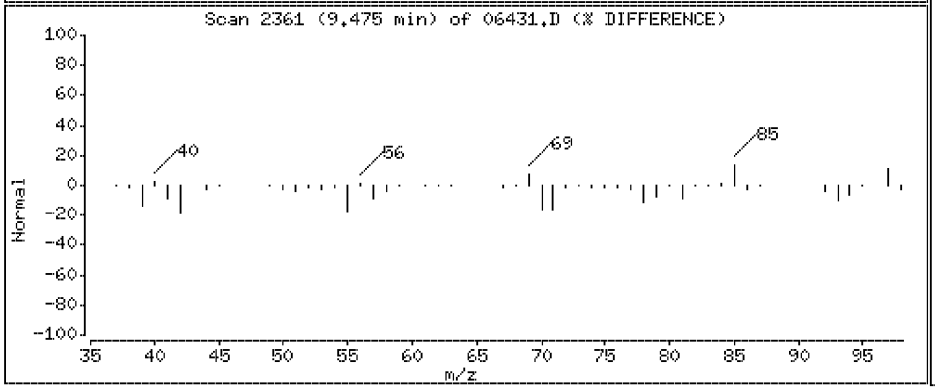
71 n-Nonane

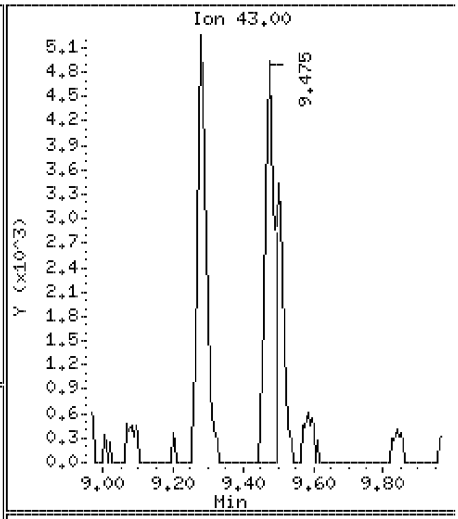
Concentration: 0.579 ppbv

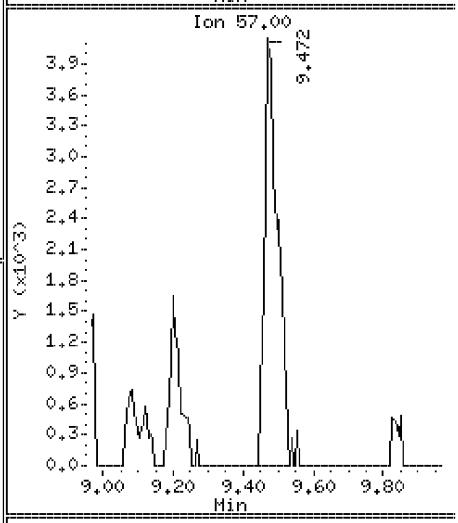


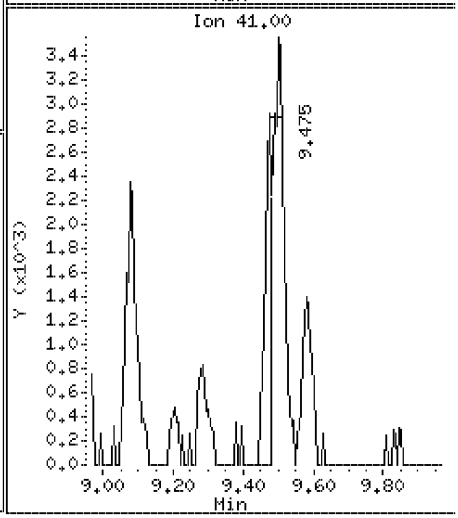












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

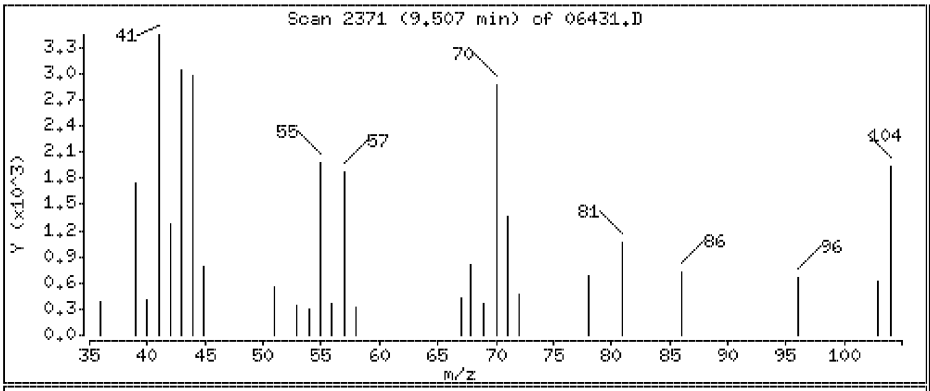
Operator: NCK

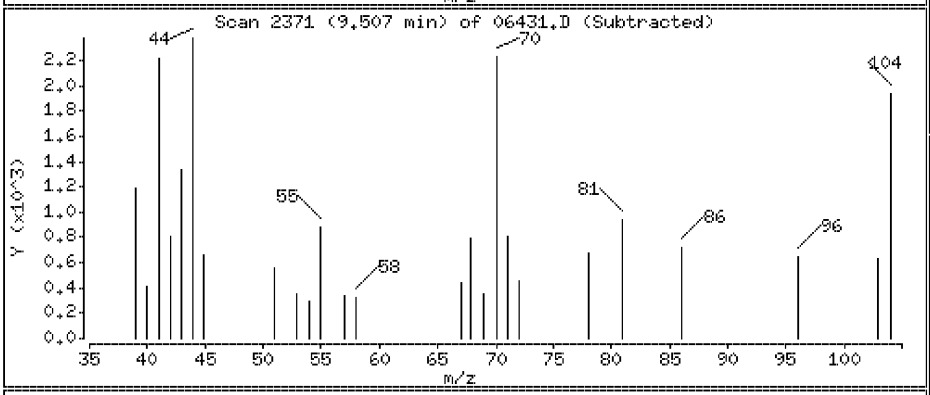
Column phase: J&W DB-5

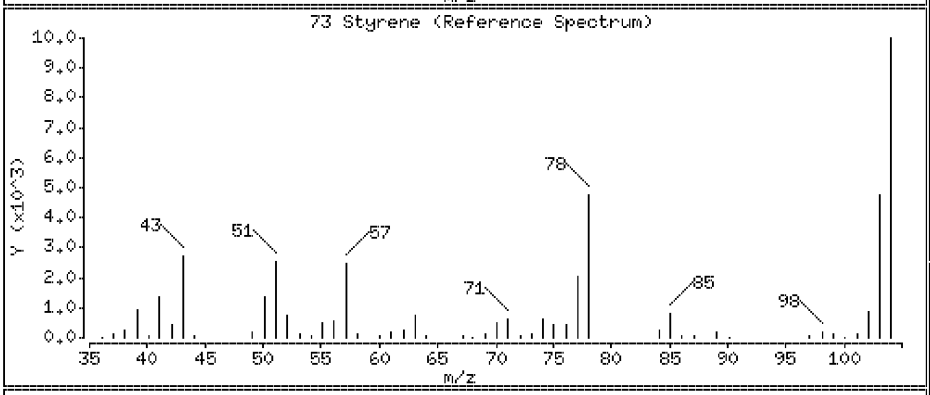
Column diameter: 0.32

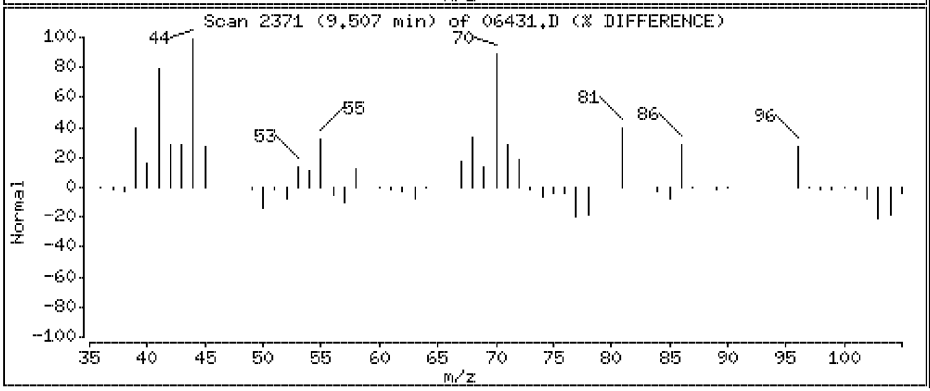
73 Styrene

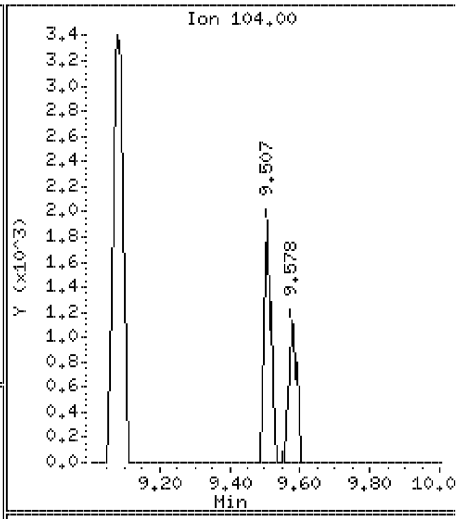
Concentration: 0.241 ppbv

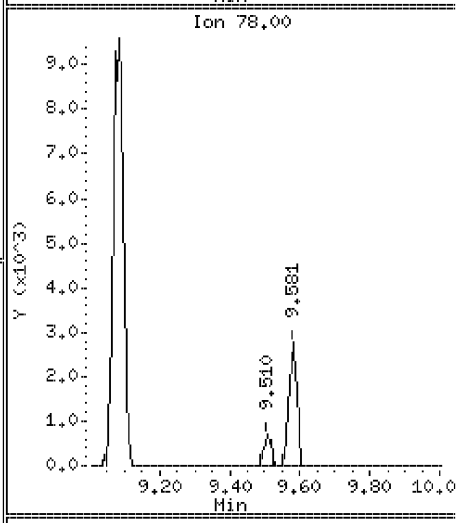


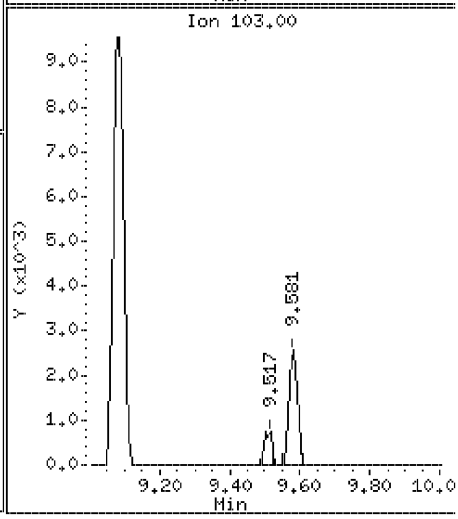












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

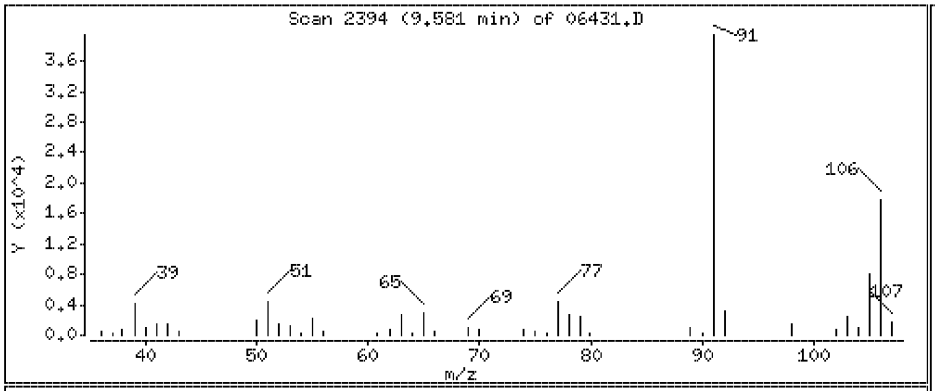
Operator: NCK

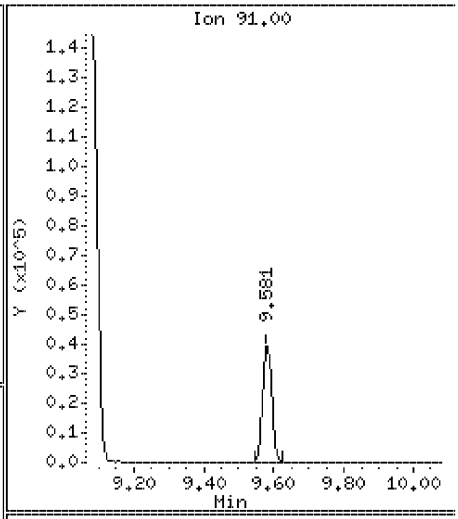
Column phase: J&W DB-5

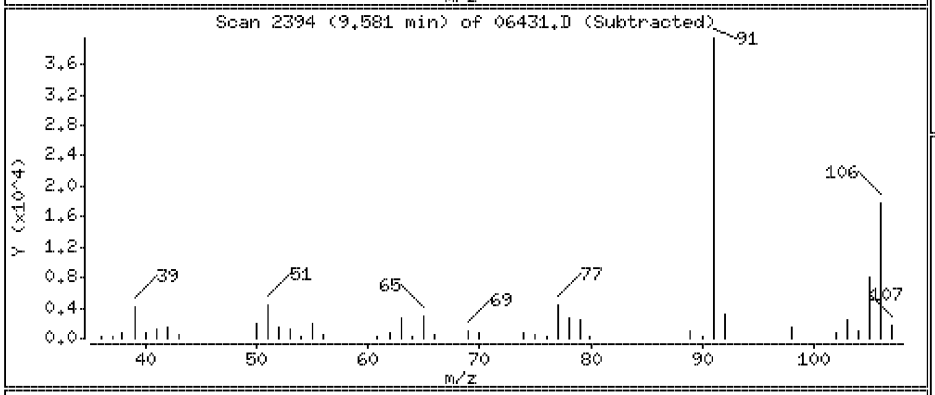
Column diameter: 0.32

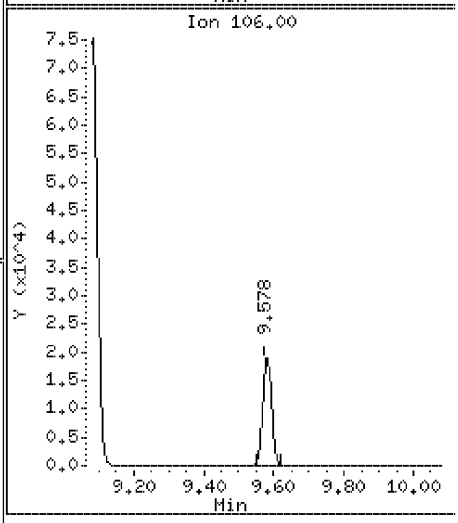
74 o-Xylene

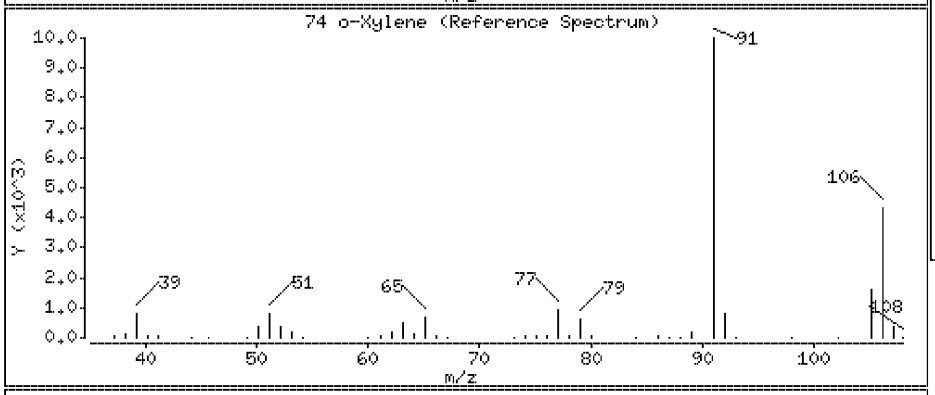
Concentration: 2.44 ppbv

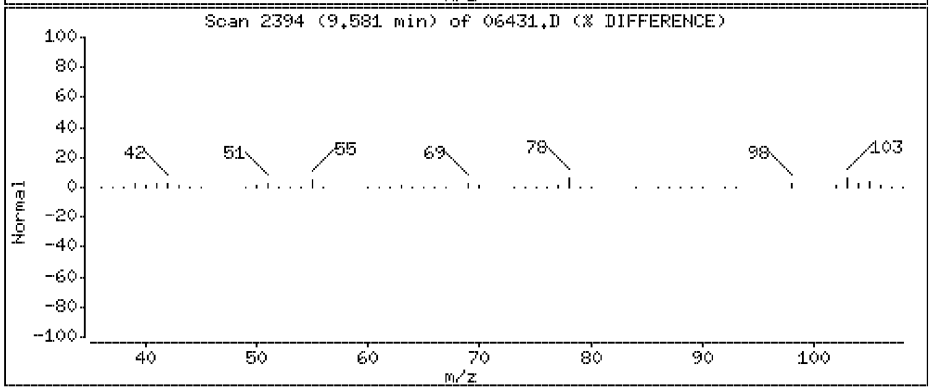












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

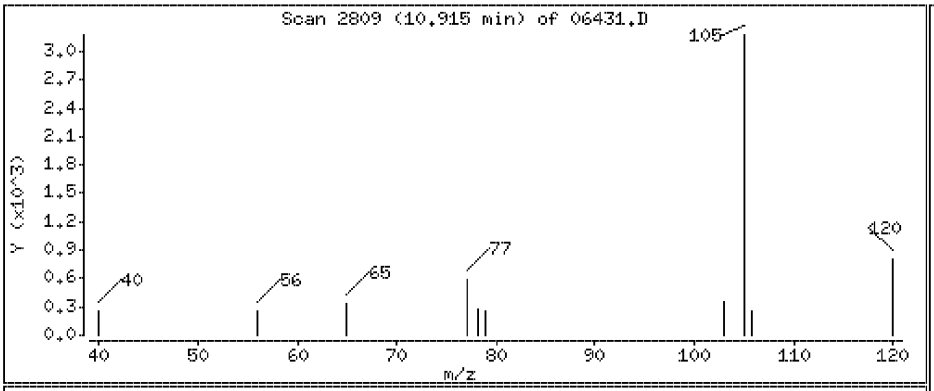
Operator: NCK

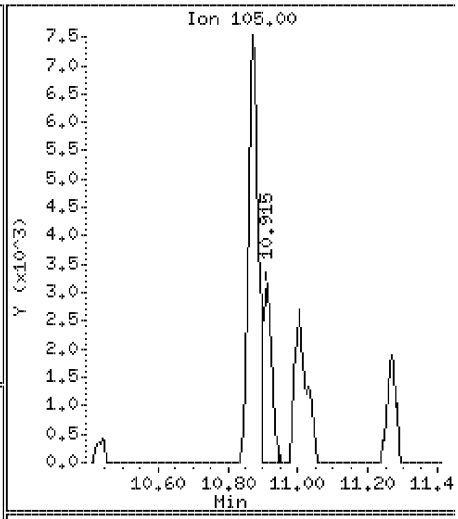
Column phase: J&W DB-5

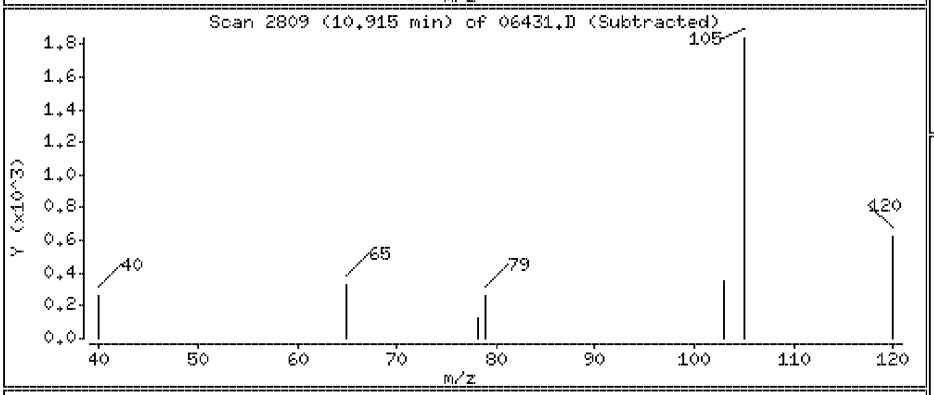
Column diameter: 0.32

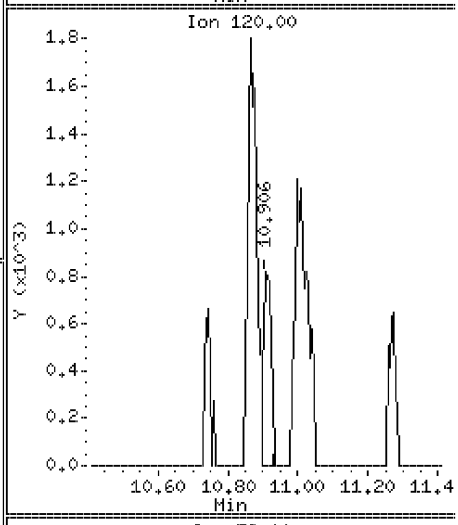
78 4-Ethyltoluene

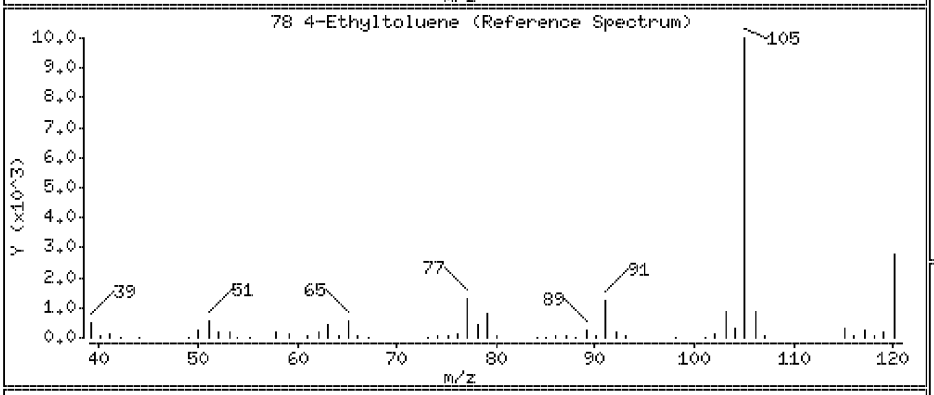
Concentration: 0.302 ppbv

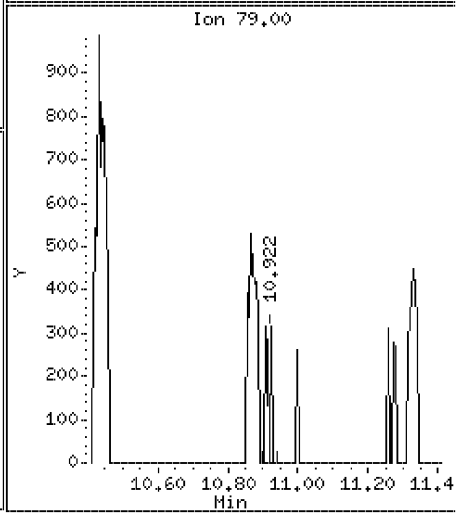


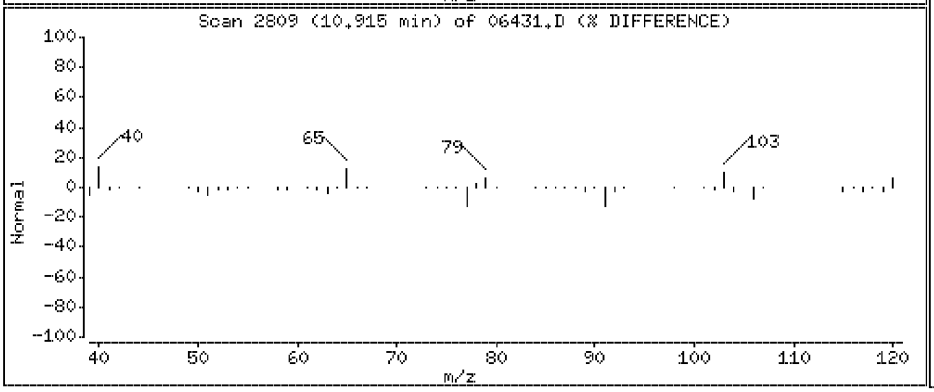












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

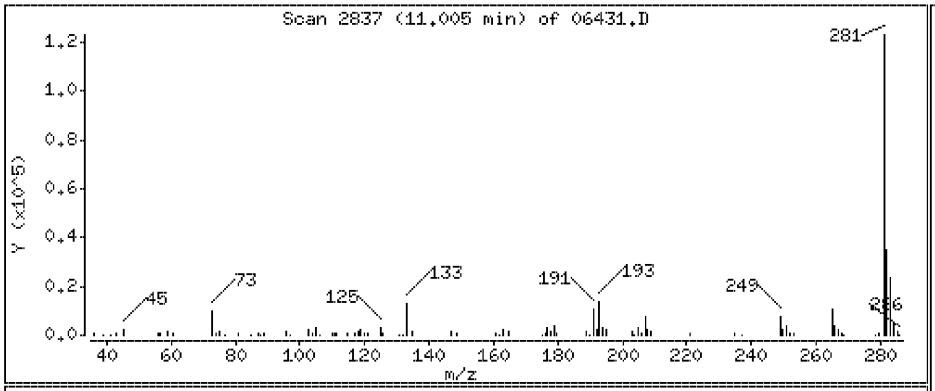
Operator: NCK

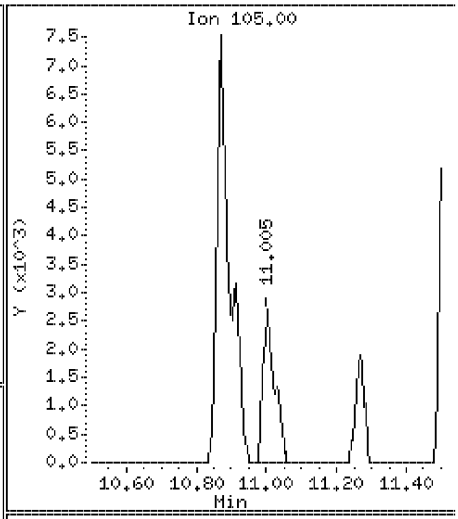
Column phase: J&W DB-5

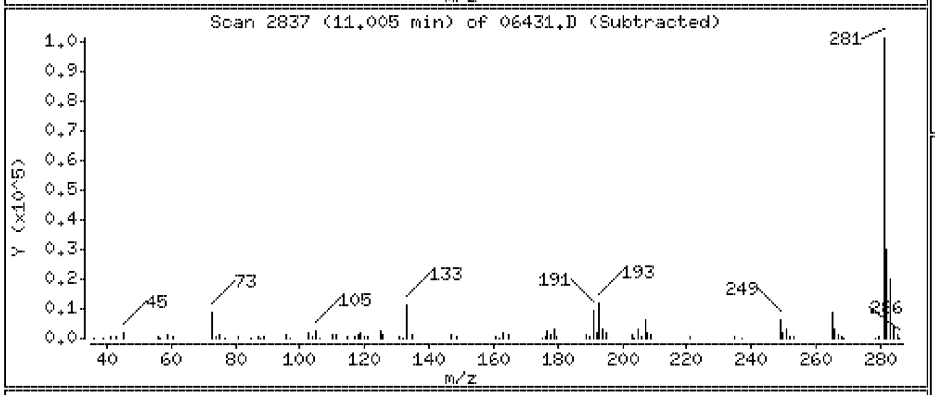
Column diameter: 0.32

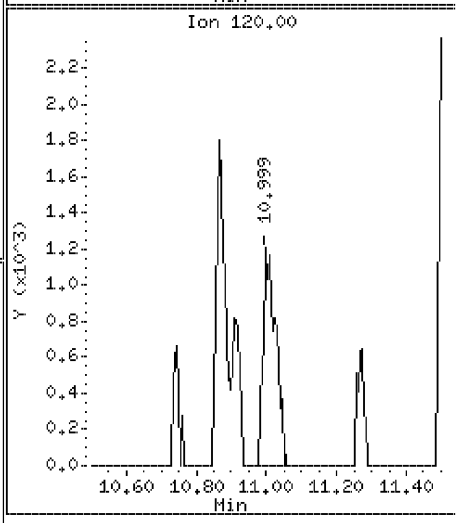
79 1,3,5-Trimethylbenzene

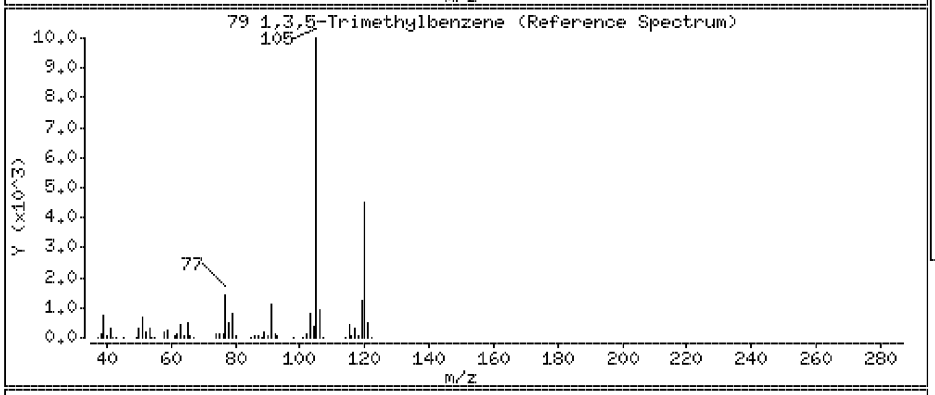
Concentration: 0.212 ppbv

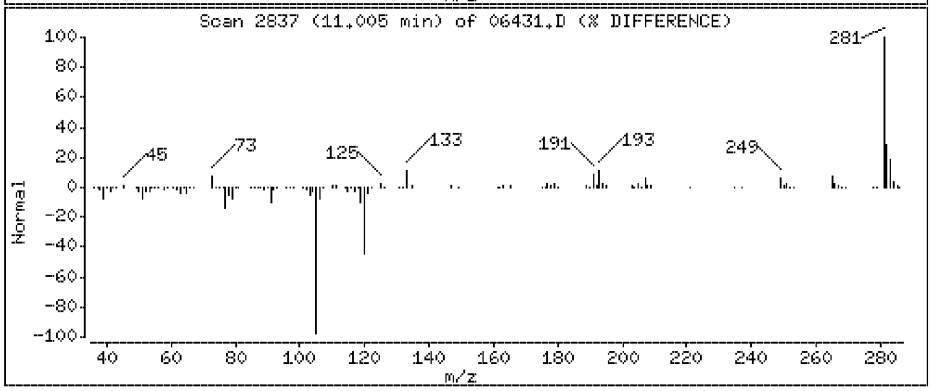












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

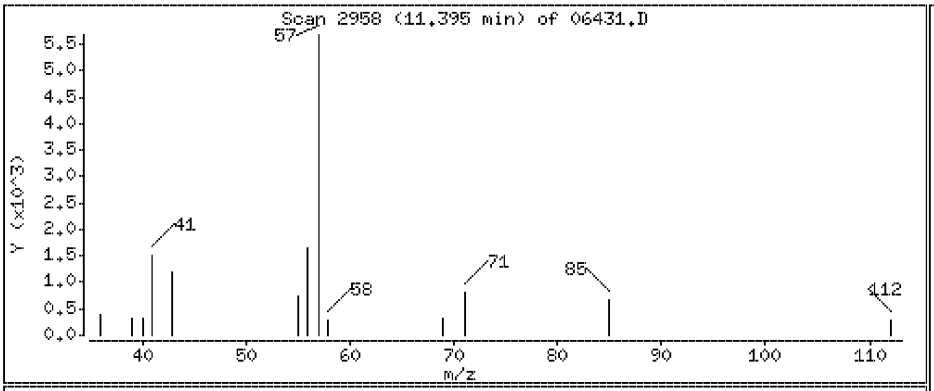
Operator: NCK

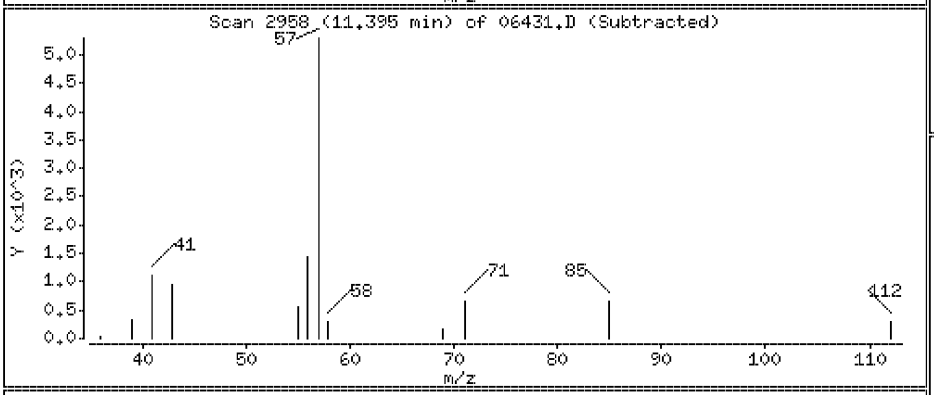
Column phase: J&W DB-5

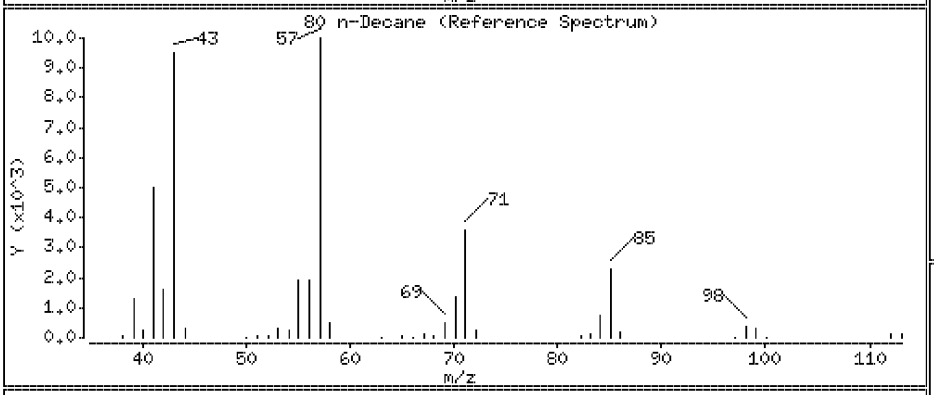
Column diameter: 0.32

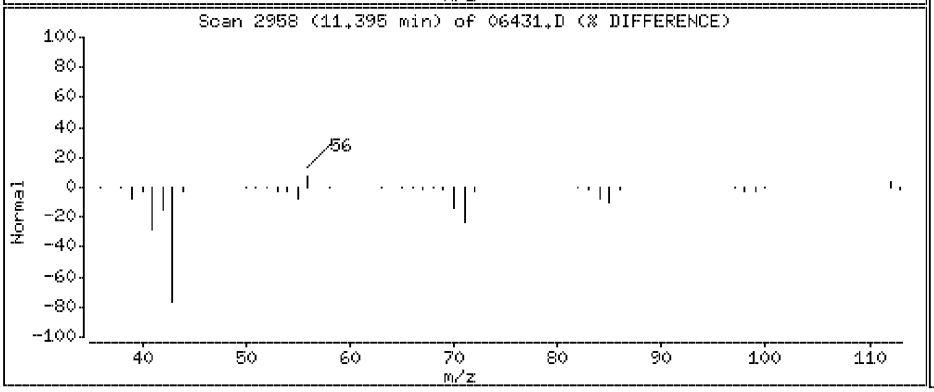
80 n-Decane

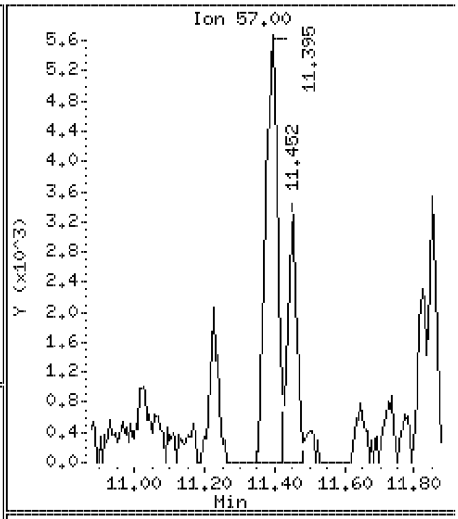
Concentration: 1.10 ppbv

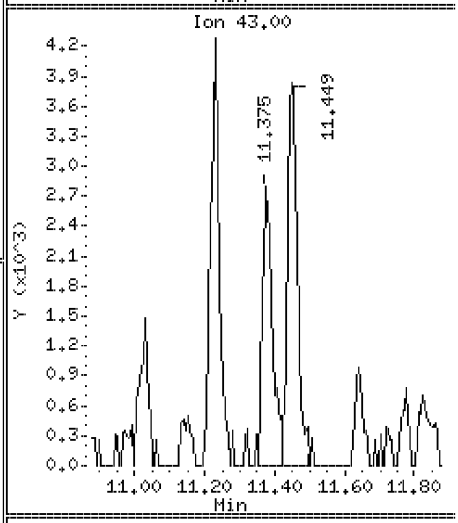


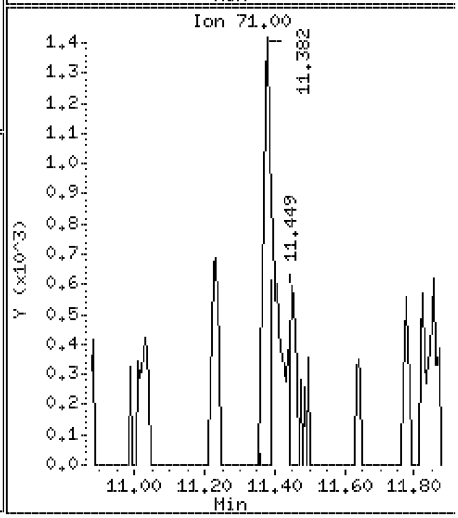












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

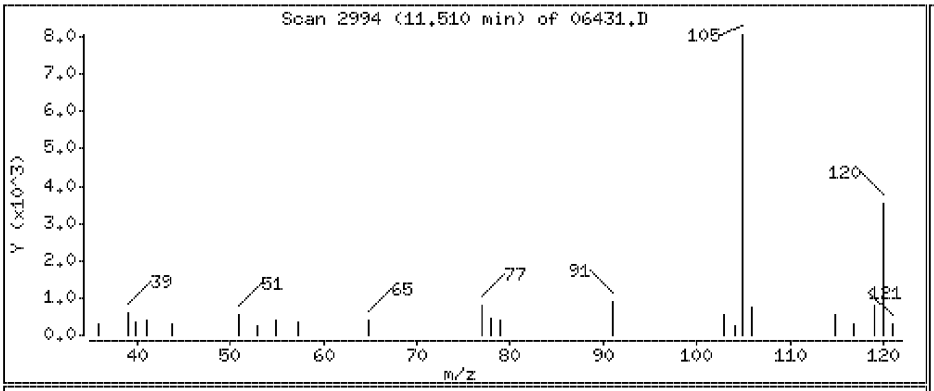
Operator: NCK

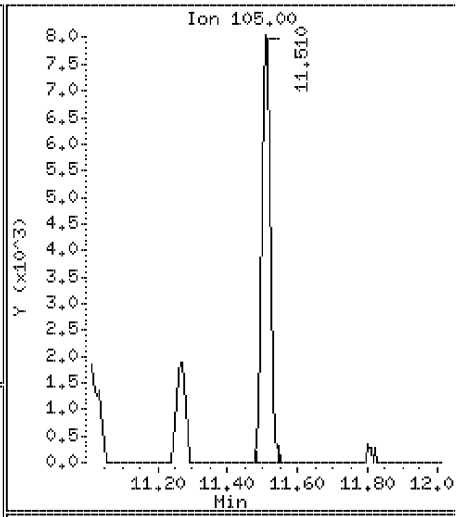
Column phase: J&W DB-5

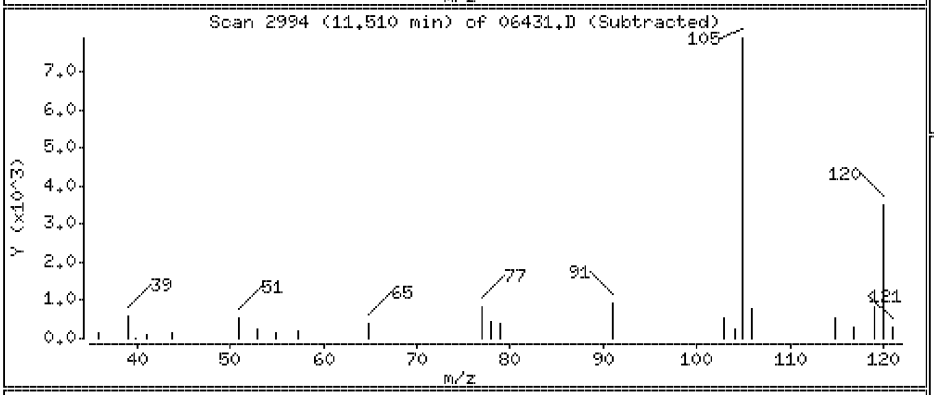
Column diameter: 0.32

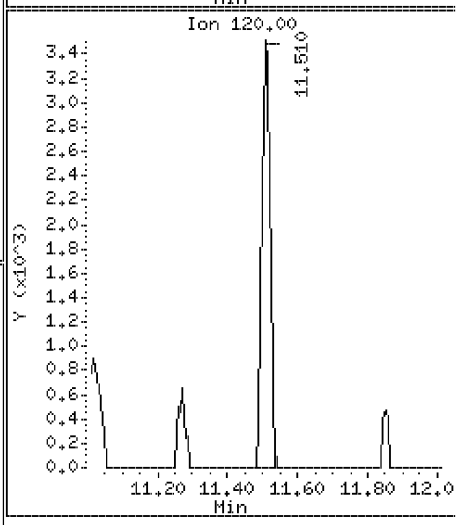
82 1,2,4-Trimethylbenzene

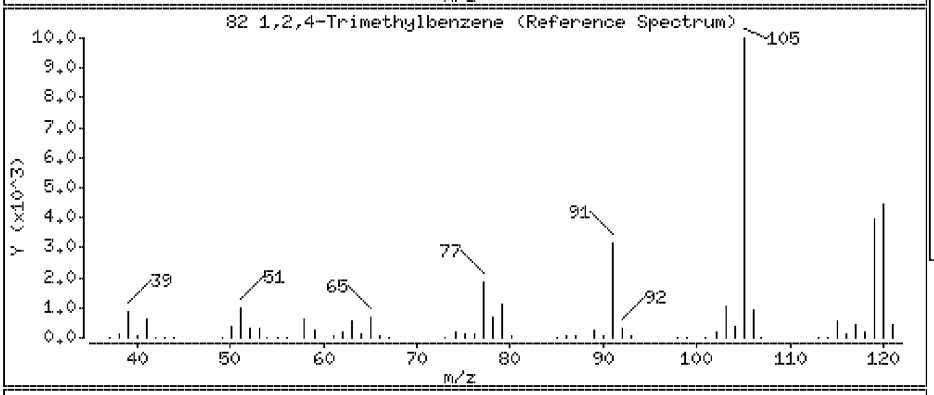
Concentration: 0.441 ppbv

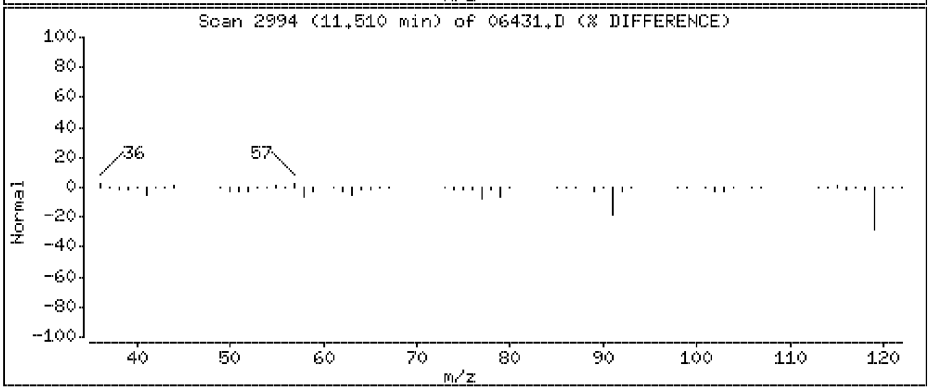












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

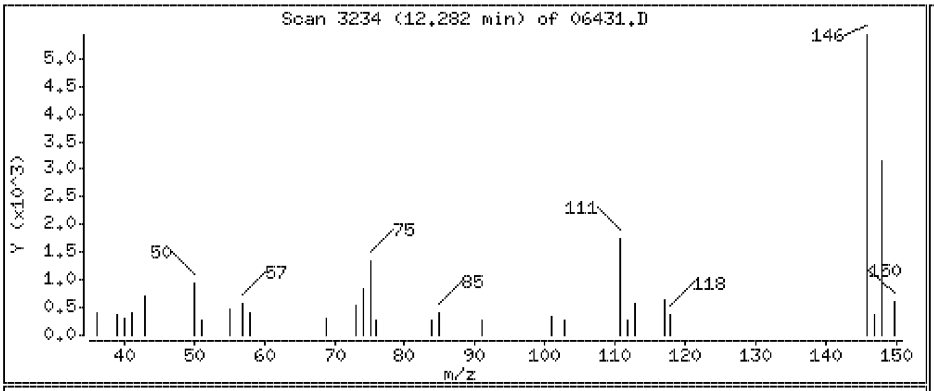
Operator: NCK

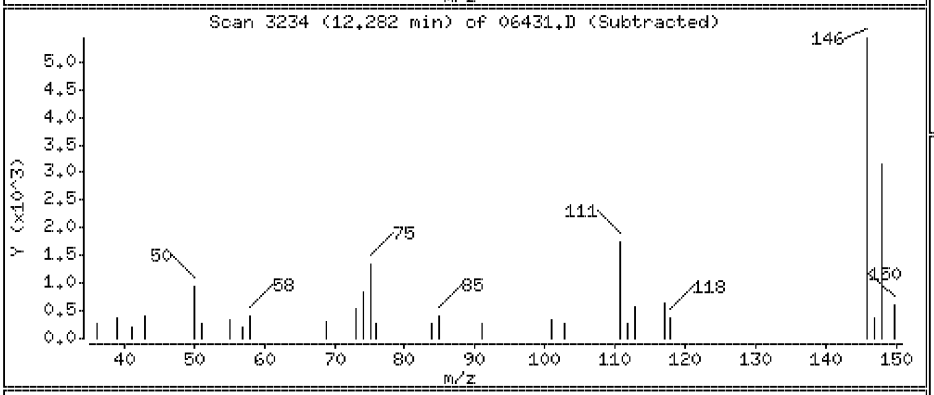
Column phase: J&W DB-5

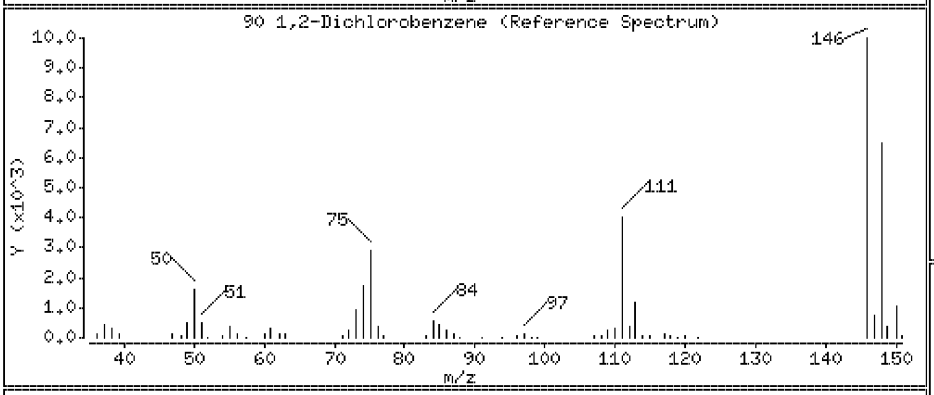
Column diameter: 0.32

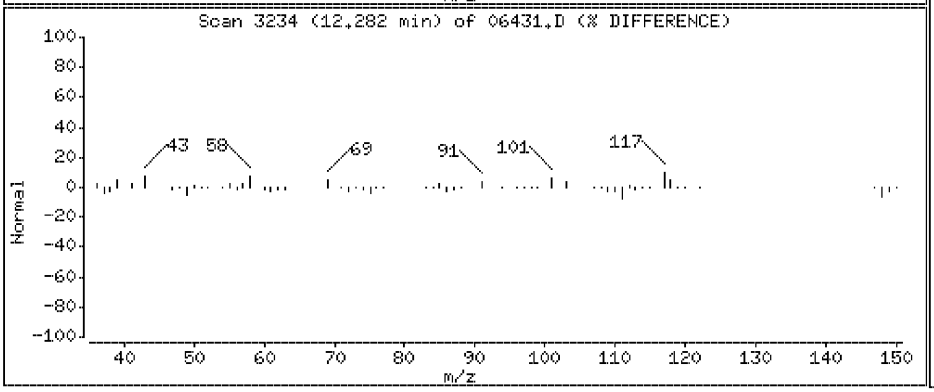
90 1,2-Dichlorobenzene

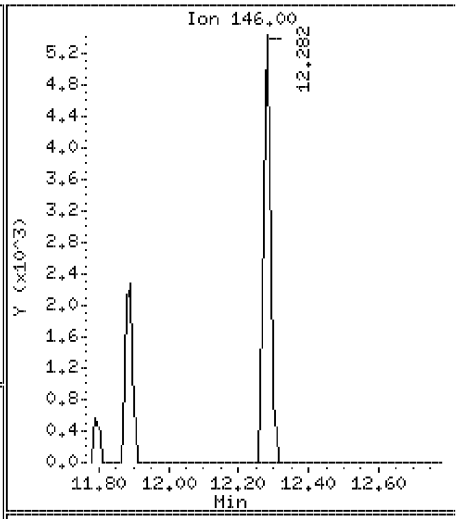
Concentration: 0.522 ppbv

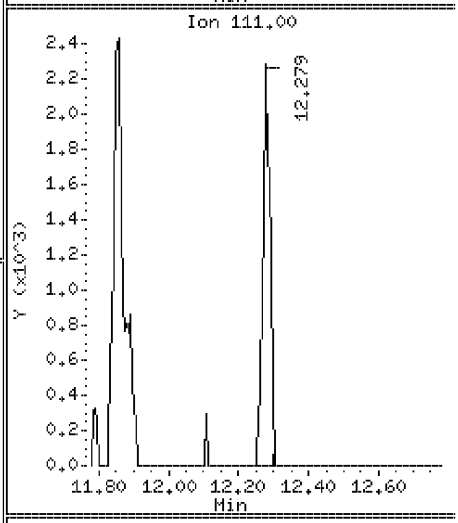


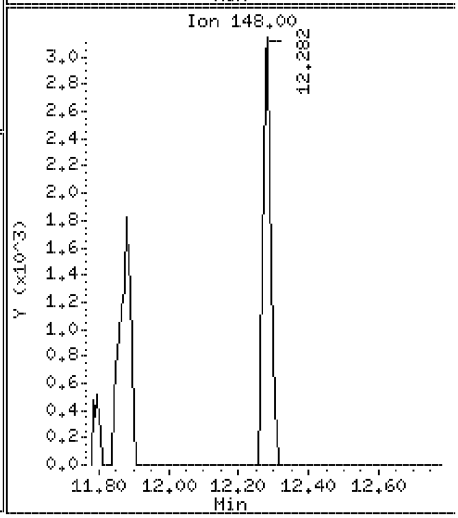












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06431.D

Date : 06-MAR-2017 00:39

Client ID:

Instrument: 10airB.i

Sample Info:

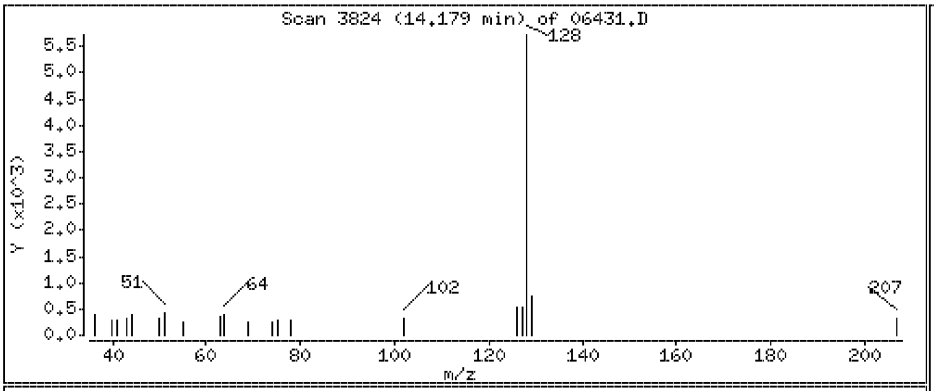
Operator: NCK

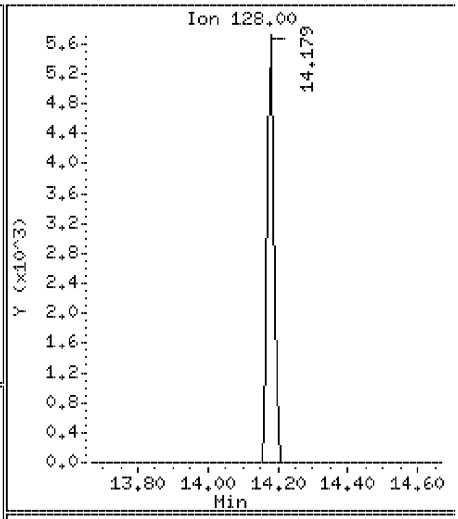
Column phase: J&W DB-5

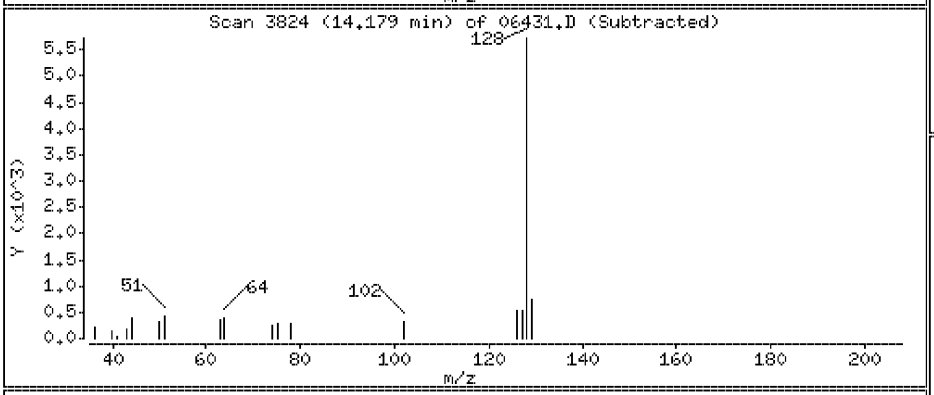
Column diameter: 0.32

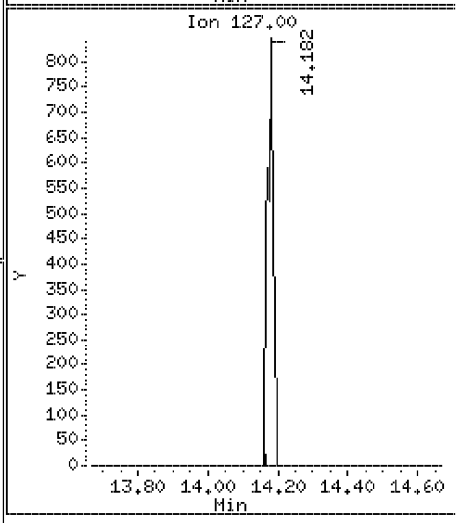
94 Naphthalene

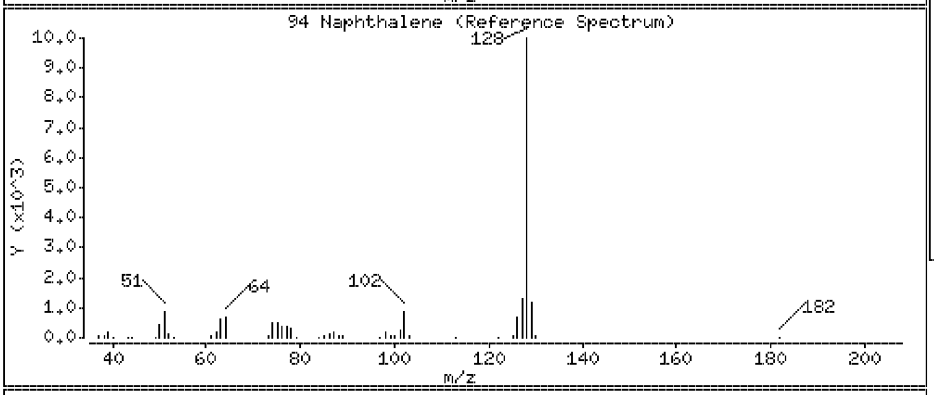
Concentration: 0.976 ppbv

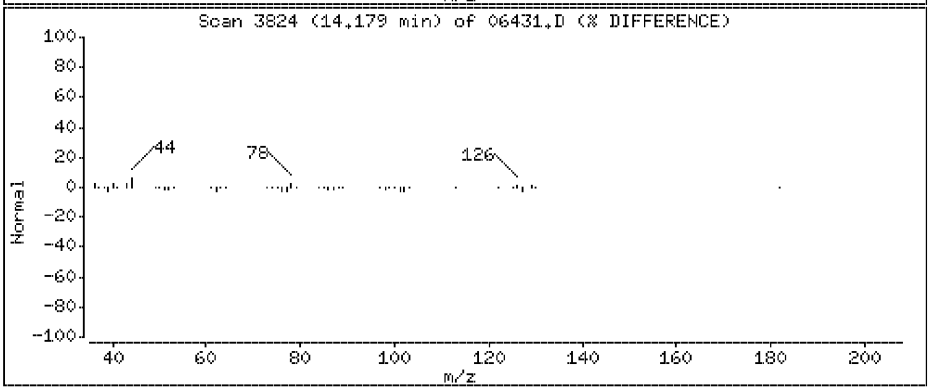






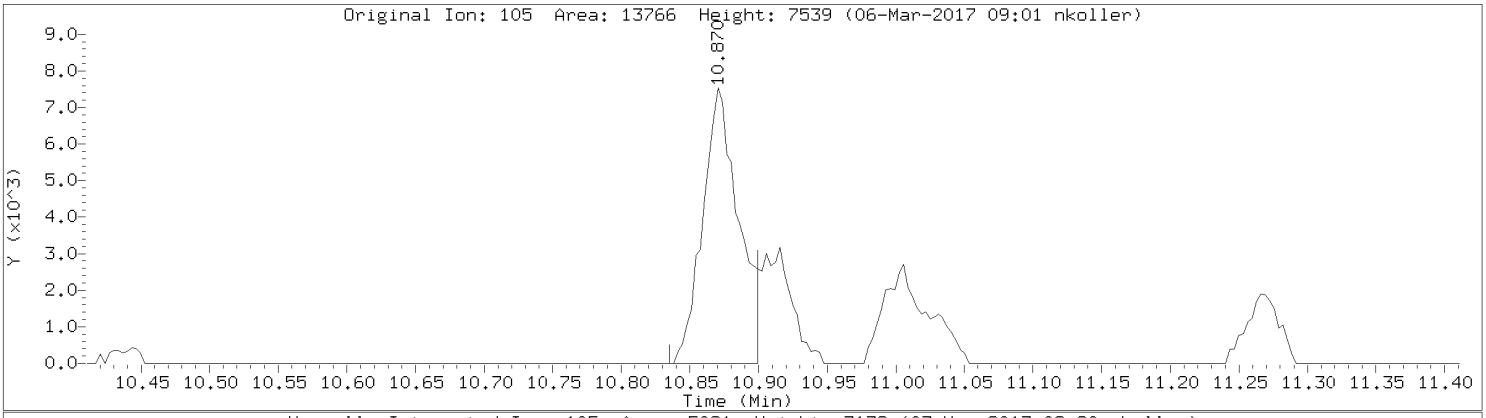


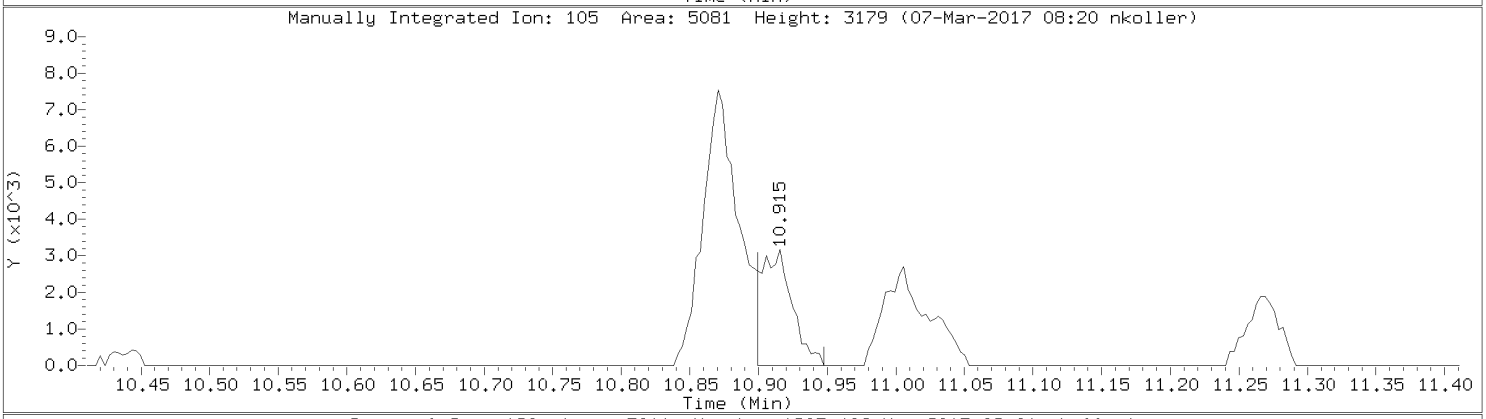


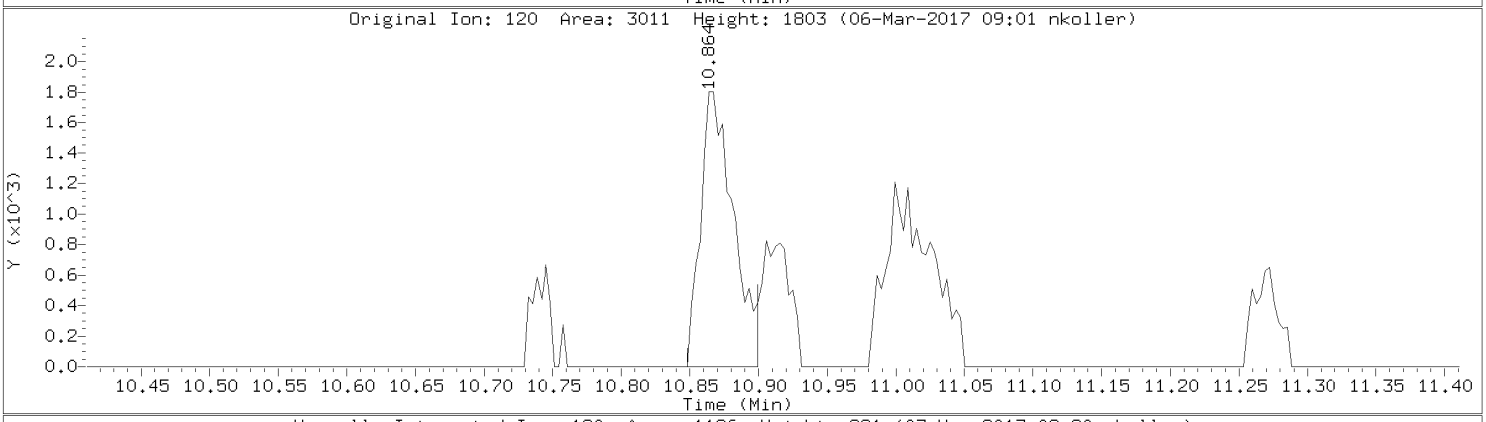


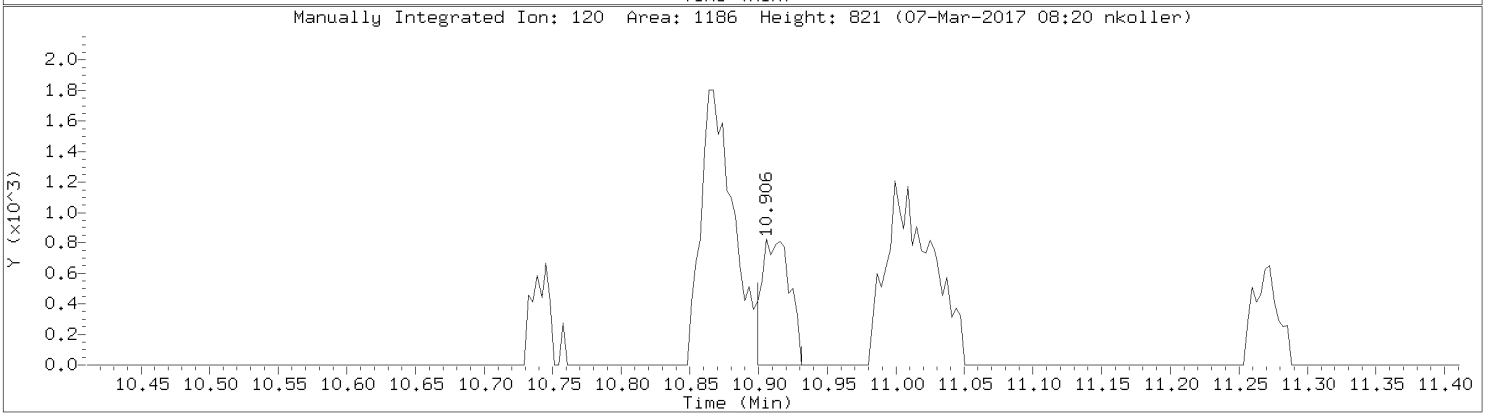
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06431.D
Injection Date: 06-MAR-2017 00:39
Instrument: 10airB.i
Lab Sample ID: 10380193011

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

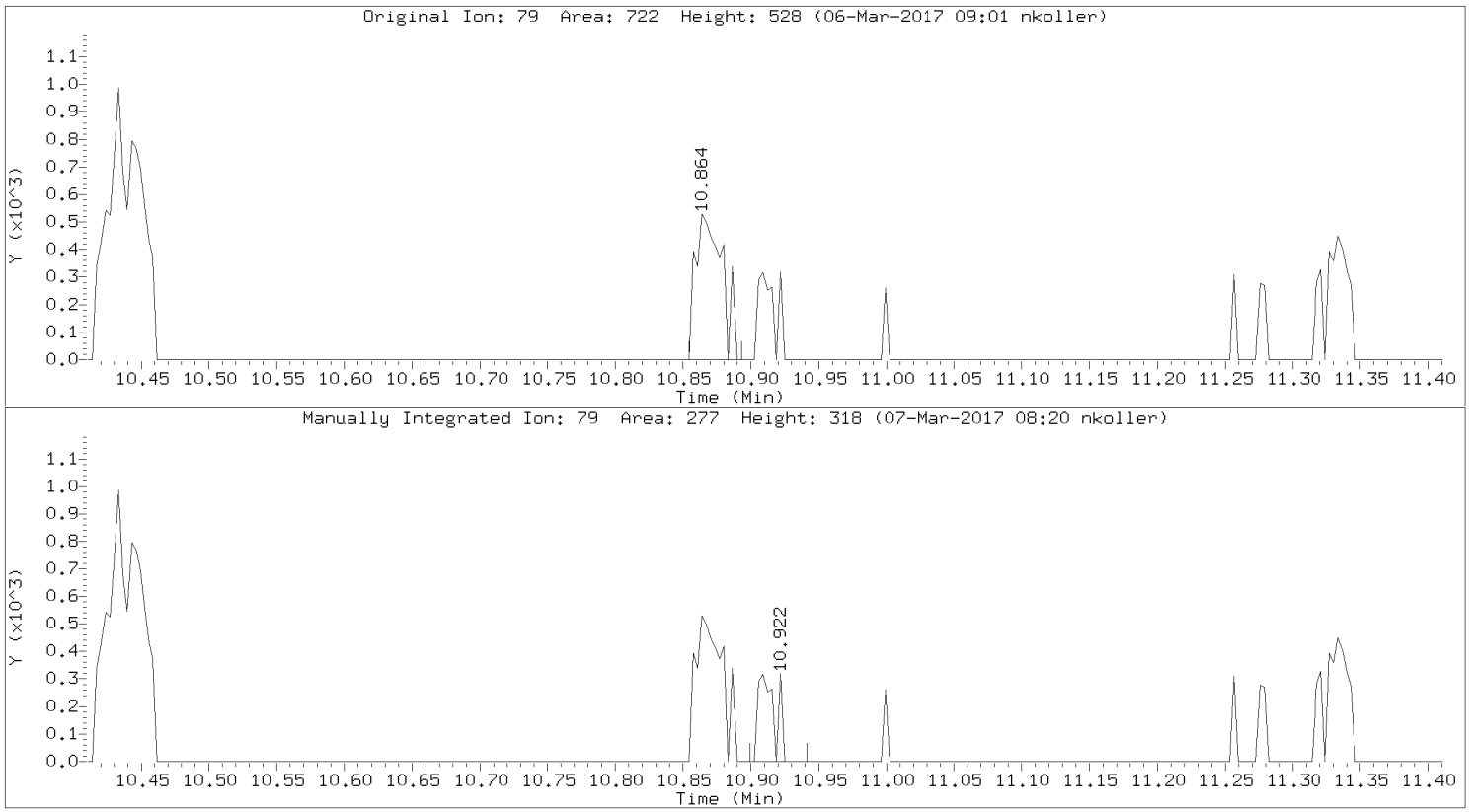






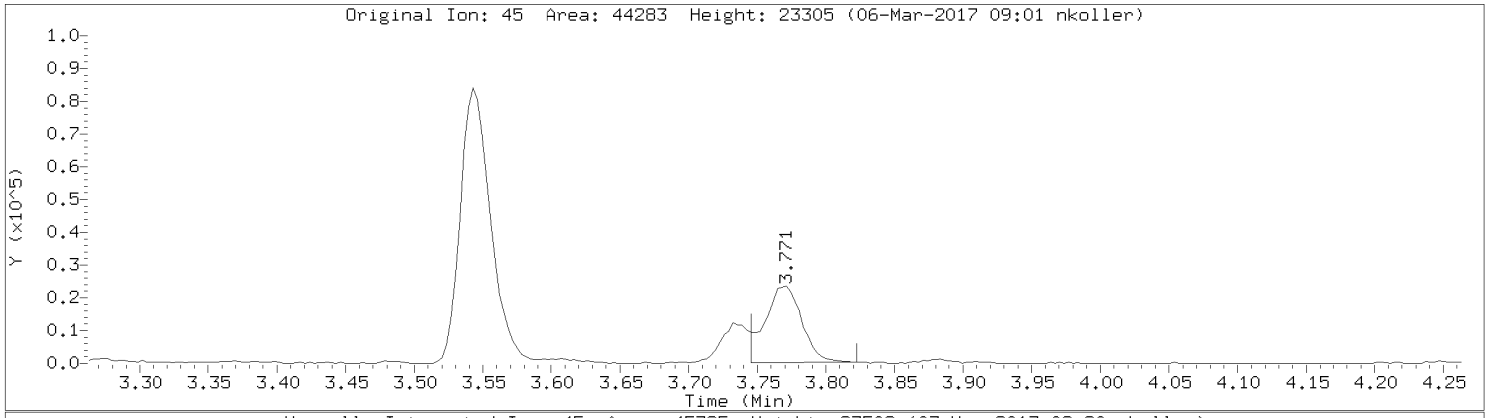


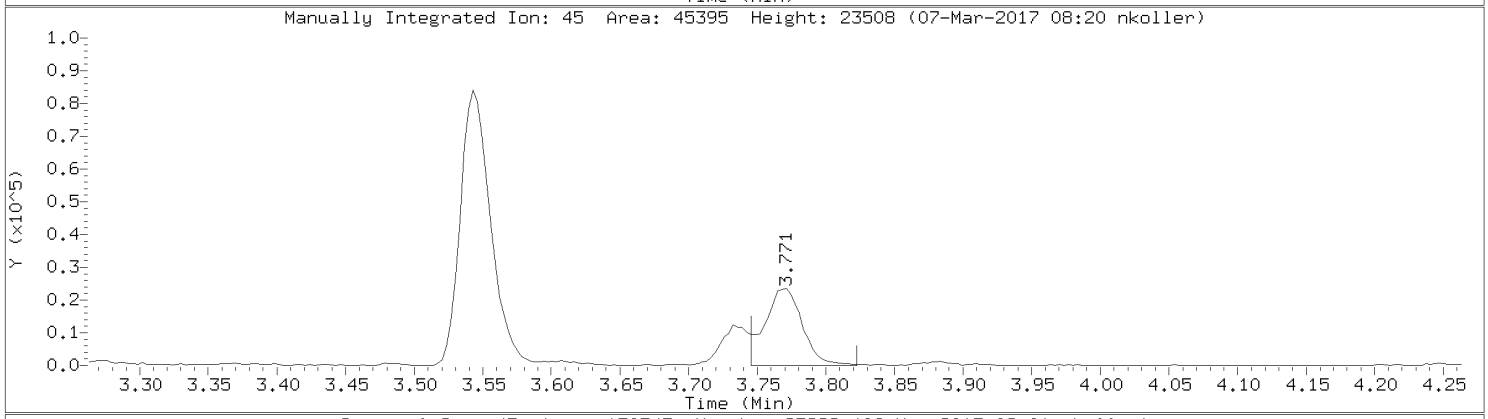
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06431.D
Injection Date: 06-MAR-2017 00:39
Instrument: 10airB.i
Lab Sample ID: 10380193011

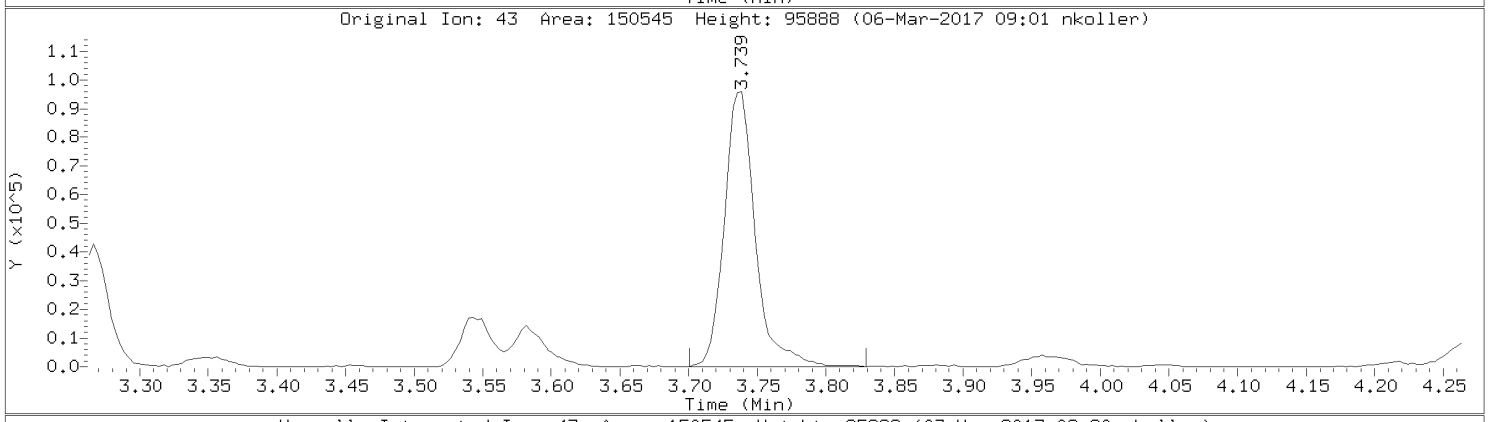


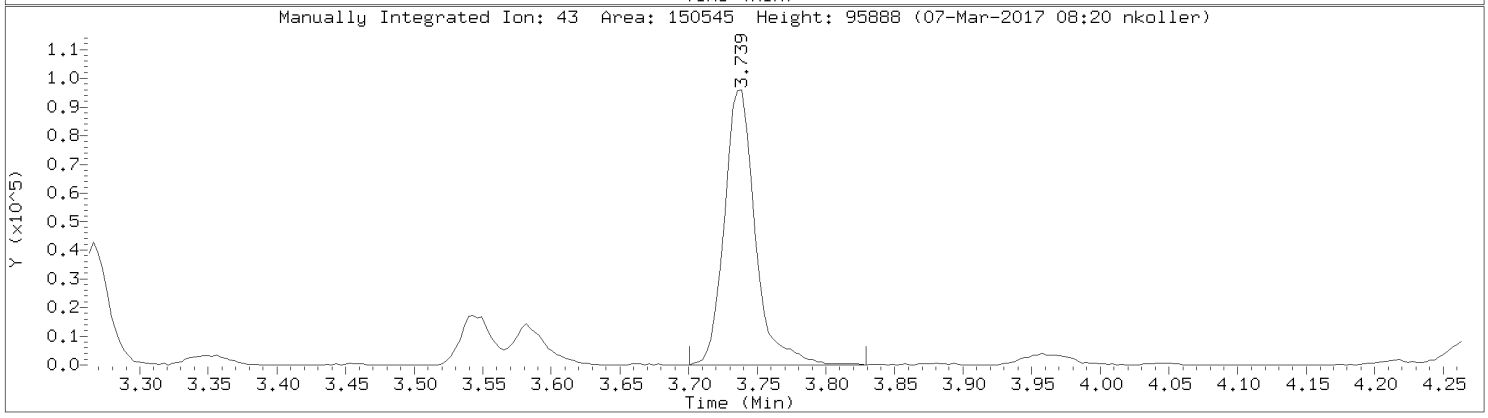
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06431.D
Injection Date: 06-MAR-2017 00:39
Instrument: 10airB.i
Lab Sample ID: 10380193011

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



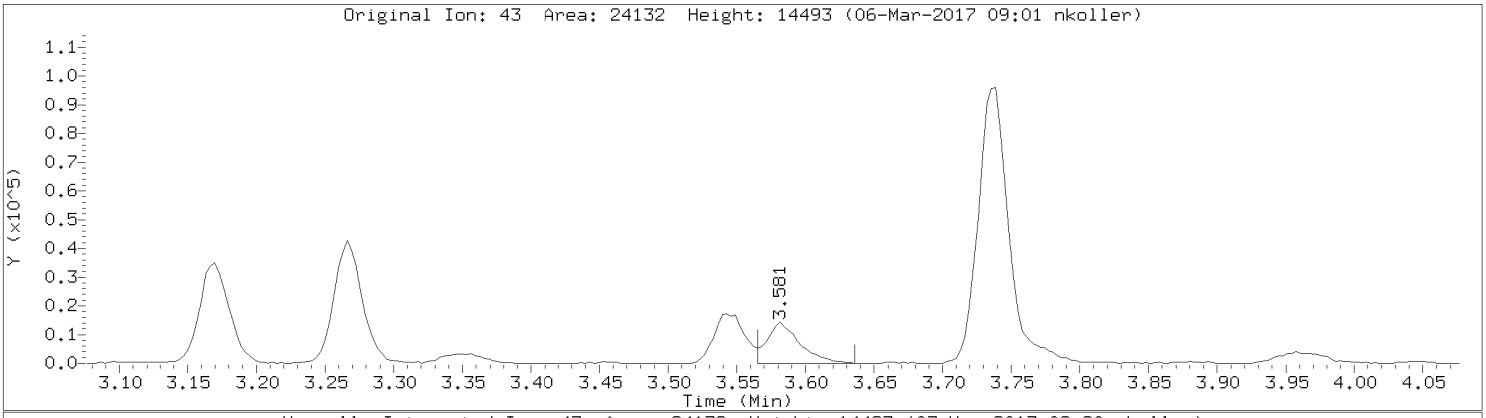


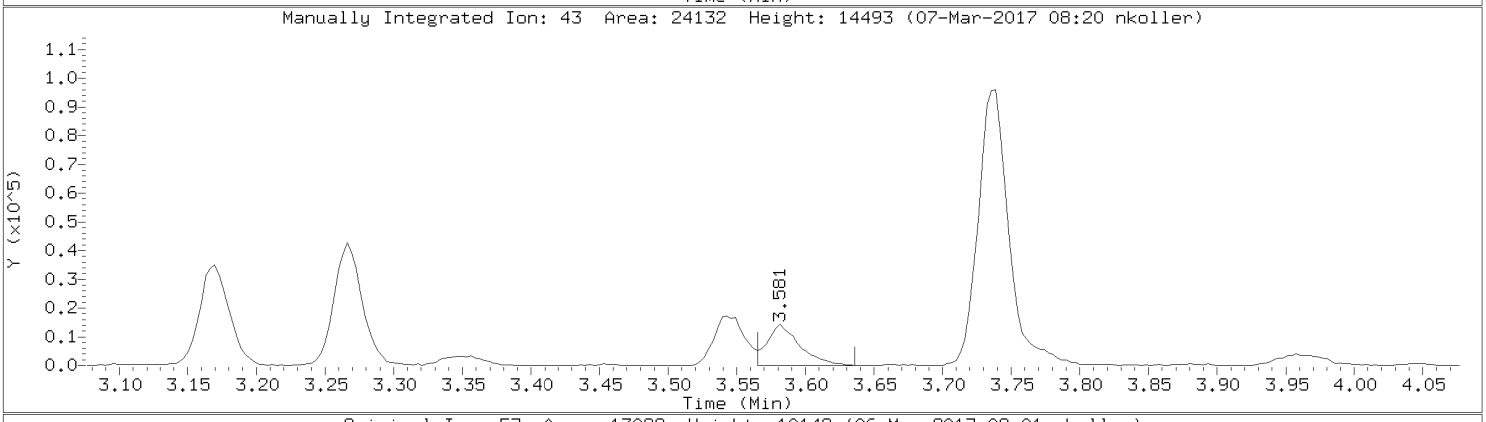


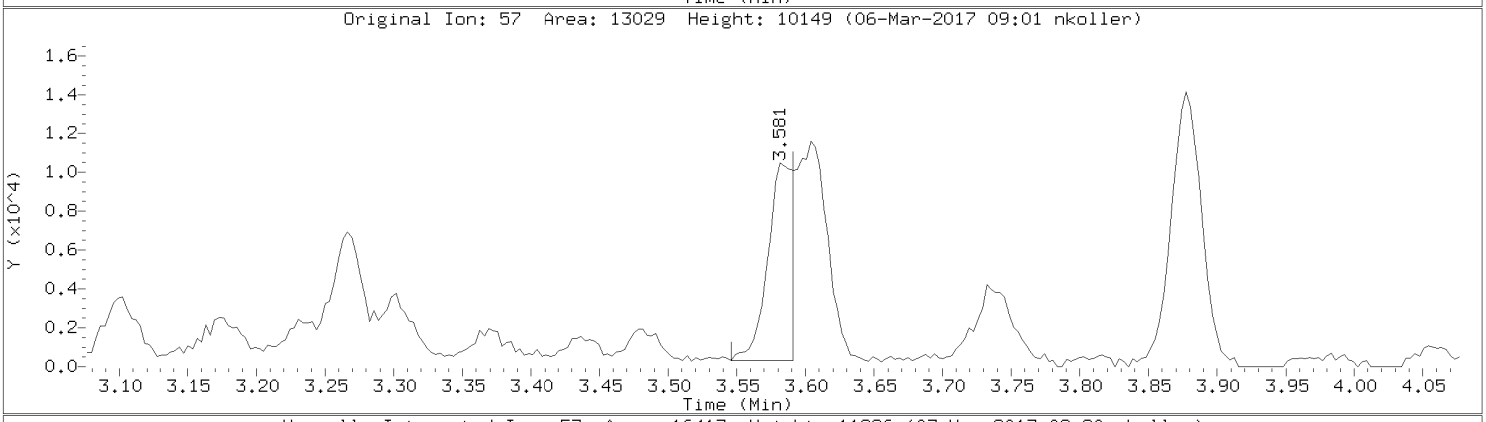


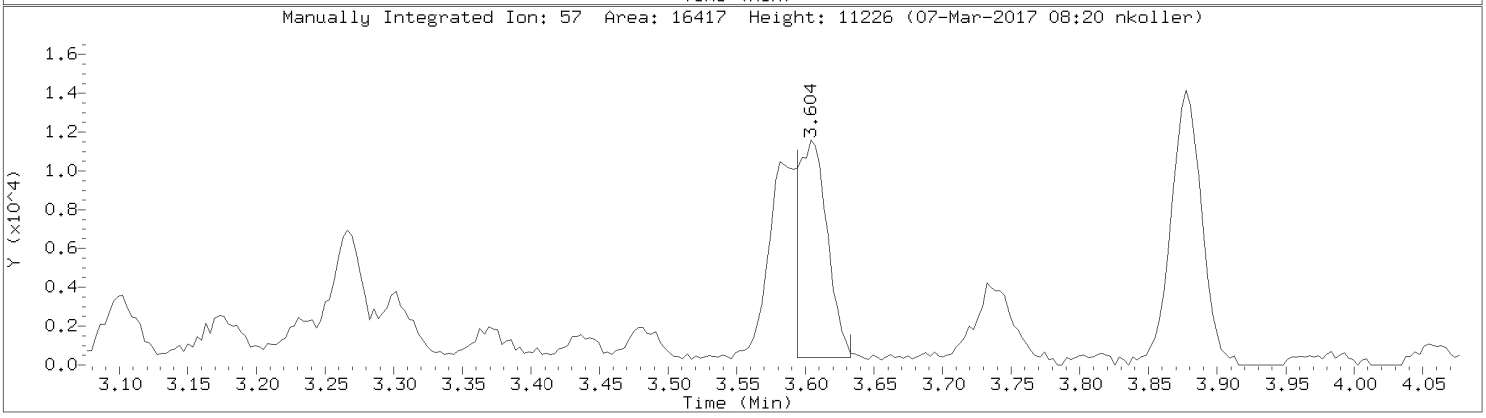
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06431.D
Injection Date: 06-MAR-2017 00:39
Instrument: 10airB.i
Lab Sample ID: 10380193011

Compound: Isopentane
CAS Number: 78-78-4

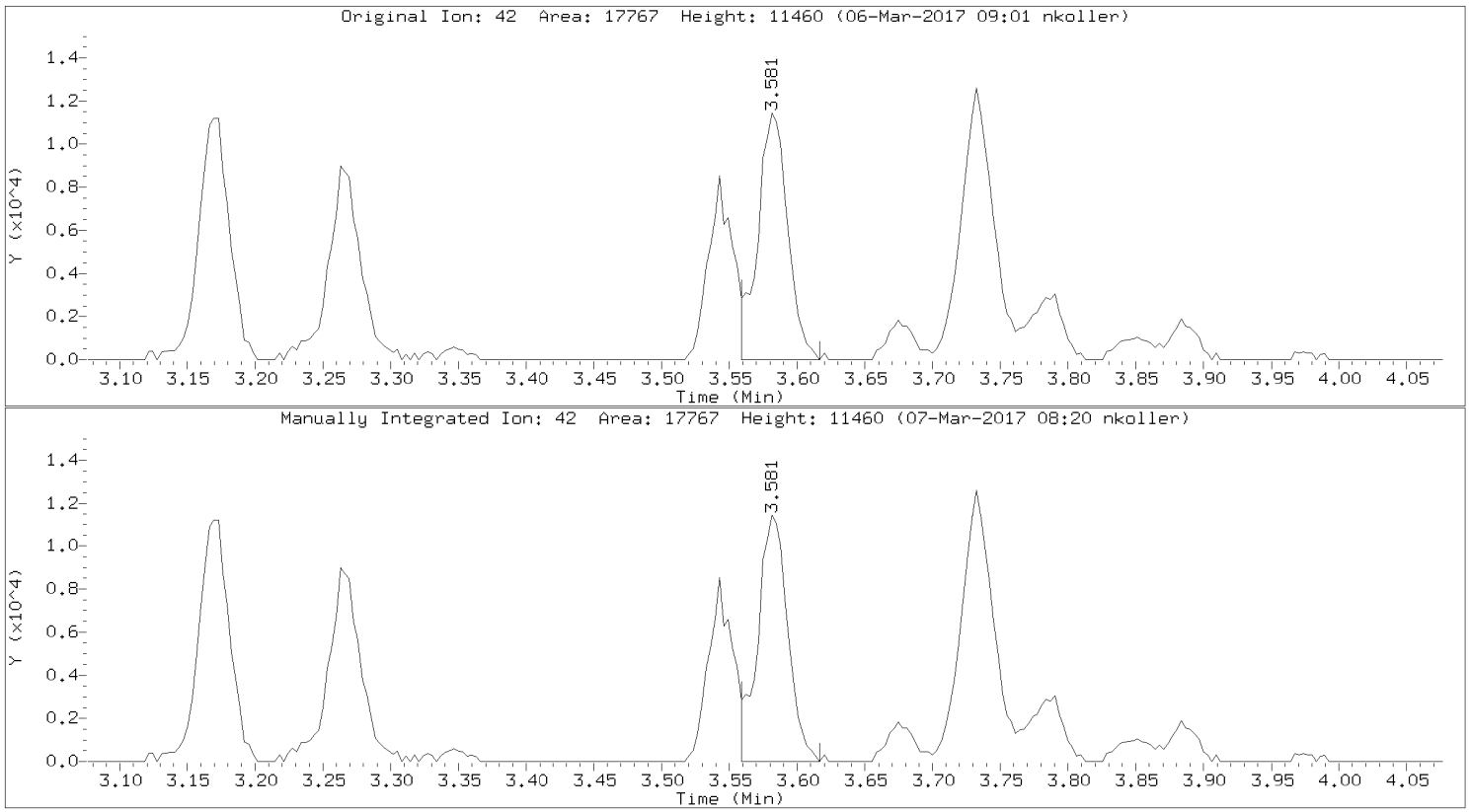








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06431.D
Injection Date: 06-MAR-2017 00:39
Instrument: 10airB.i
Lab Sample ID: 10380193011



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06513.D
Report Date: 07-Mar-2017 16:06

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06513.D
Lab Smp Id: 10380193011
Inj Date : 06-MAR-2017 14:34
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 15:53 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 13
Dil Factor: 292.80000
Integrator: HP RTE Compound Sublist: dil.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	292.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
22	Freon 113	101	3.938	3.954	(0.703)	5950	0.21758	63.7	
28	trans-1,2-dichloroethene	96	Compound Not Detected.						
37	cis-1,2-Dichloroethene	96	4.700	4.725	(0.839)	20433	1.54763	453(Q)	
39	Chloroform	83	Compound Not Detected.						(D)
* 47	1,4-Difluorobenzene	114	5.603	5.613	(1.000)	1320888	10.0000		
51	Trichloroethene	130	5.976	5.989	(1.067)	365943	16.4888	4830	
66	Tetrachloroethene	166	7.982	7.989	(0.924)	56328	1.91597	561	
* 67	Chlorobenzene - d5	117	8.642	8.645	(1.000)	846651	10.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06513.D
Report Date: 07-Mar-2017 16:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06513.D
Lab Smp Id: 10380193011
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

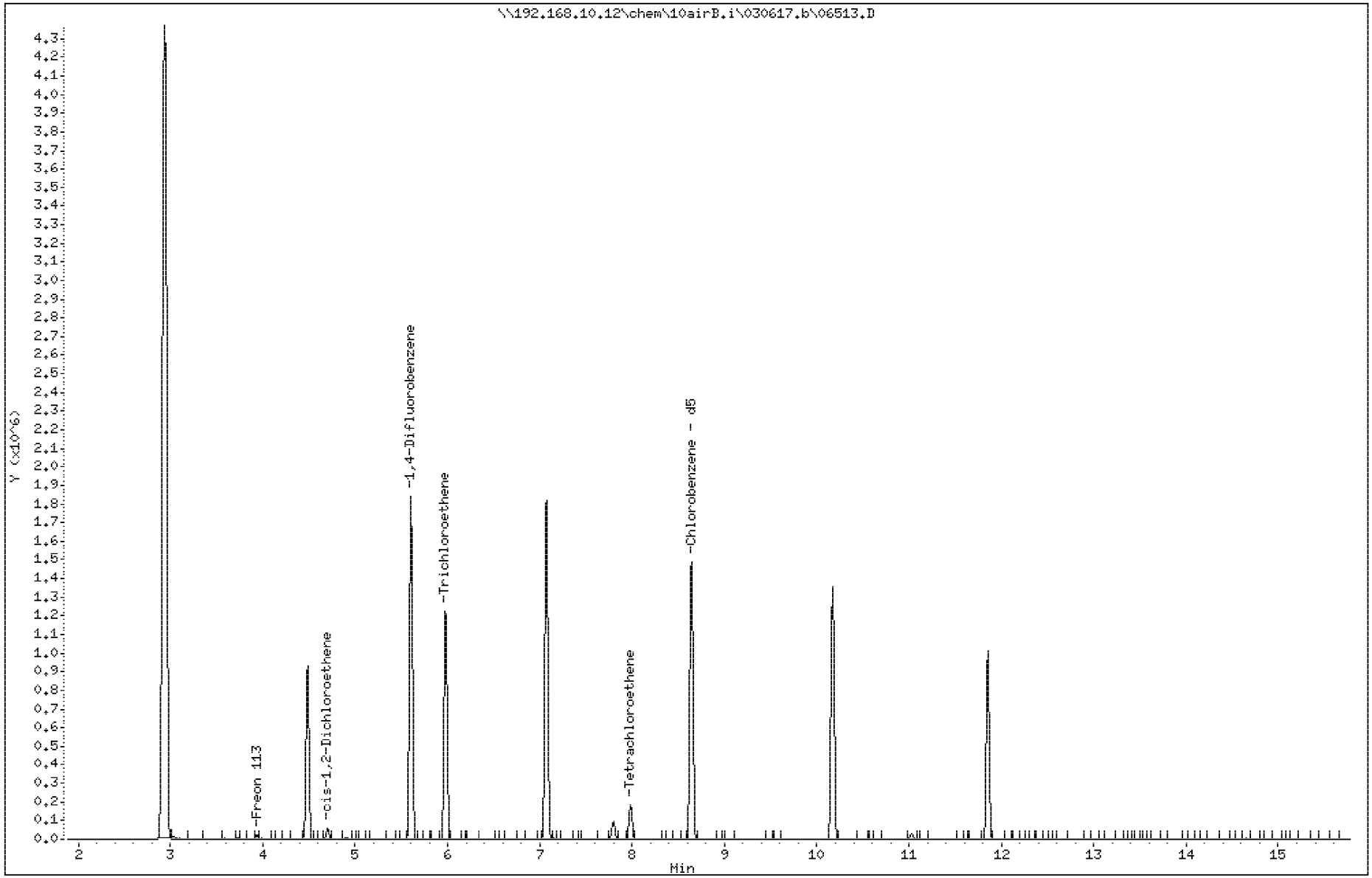
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1320888	-6.59
67 Chlorobenzene - d	951026	570616	1331436	846651	-10.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06513.D
Date : 06-MAR-2017 14:34
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06513.D

Date : 06-MAR-2017 14:34

Client ID:

Instrument: 10airB.i

Sample Info:

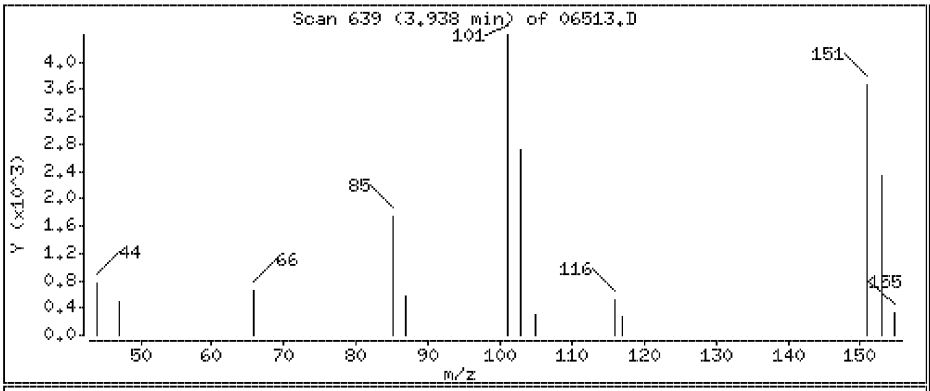
Operator: NCK

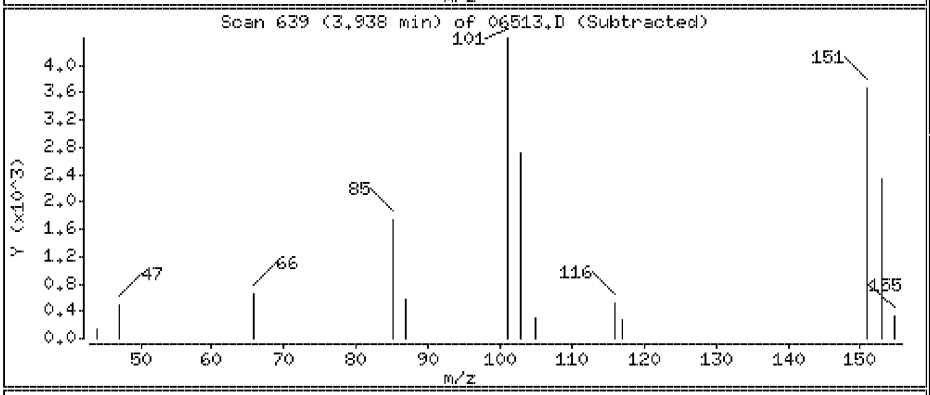
Column phase: J&W DB-5

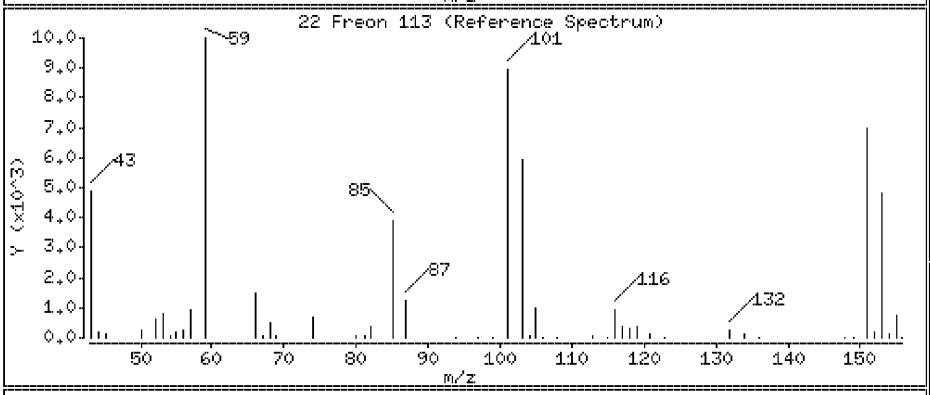
Column diameter: 0.32

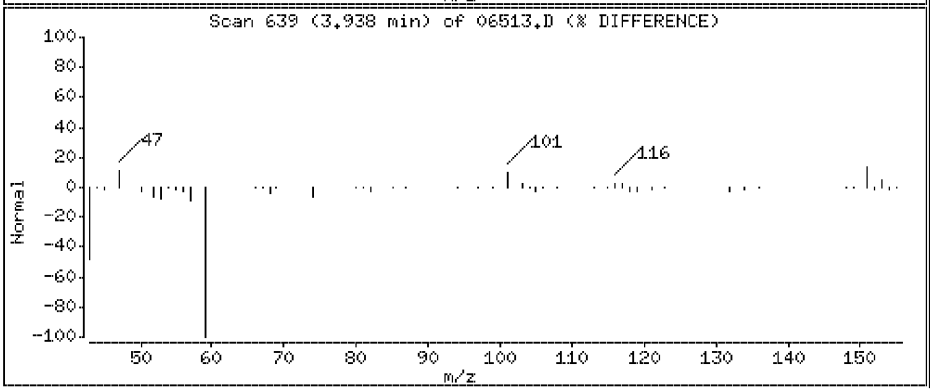
22 Freon 113

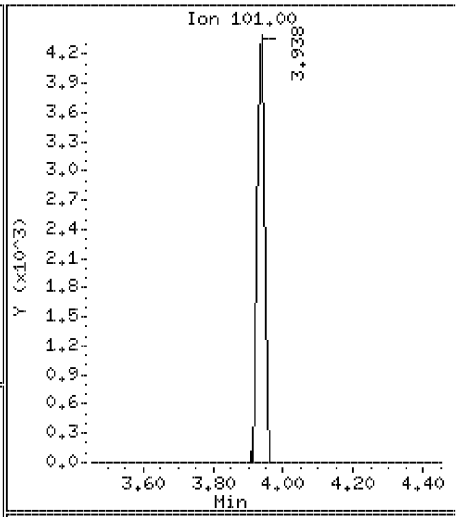
Concentration: 63.7 ppbv

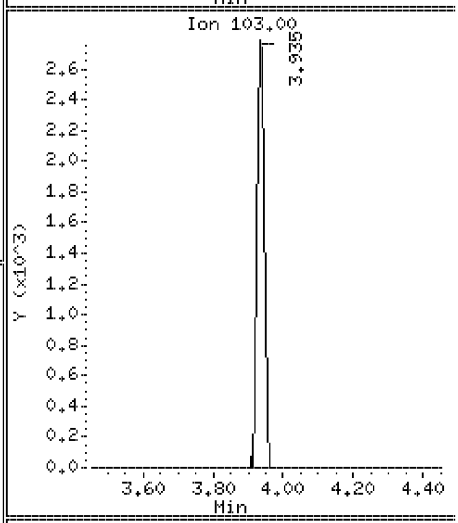


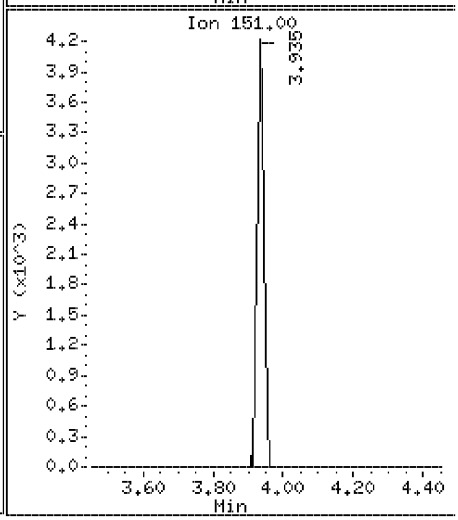












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06513.D

Date : 06-MAR-2017 14:34

Client ID:

Instrument: 10airB.i

Sample Info:

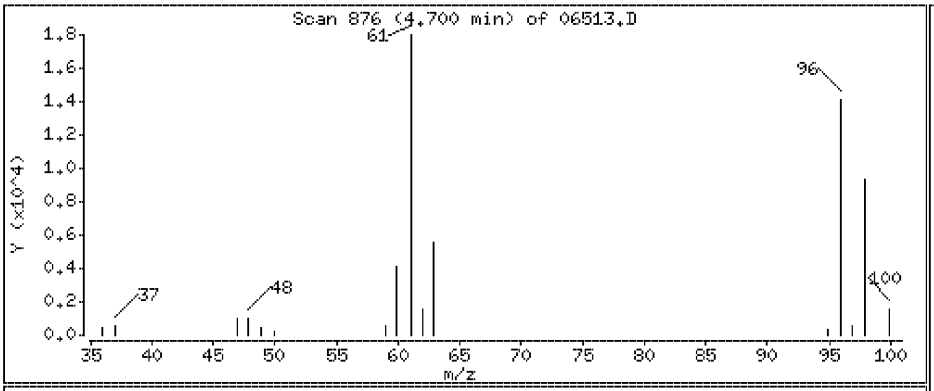
Operator: NCK

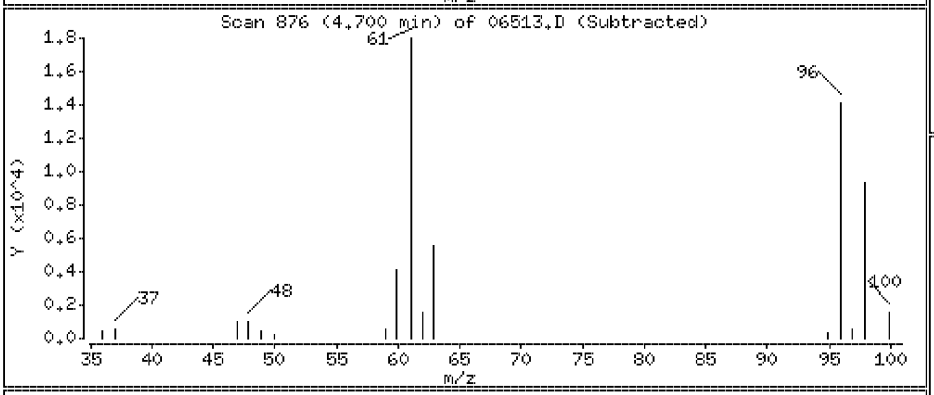
Column phase: J&W DB-5

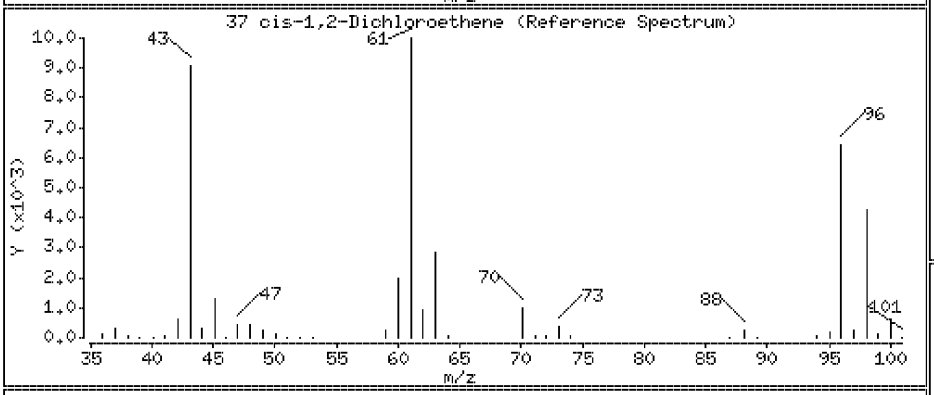
Column diameter: 0.32

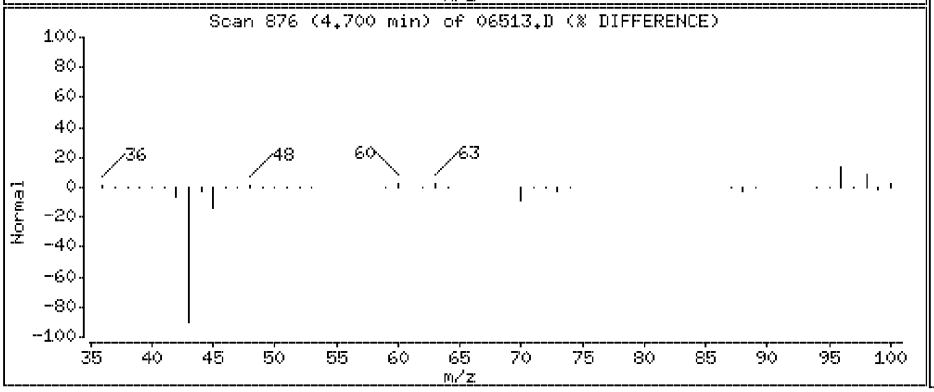
37 cis-1,2-Dichloroethene

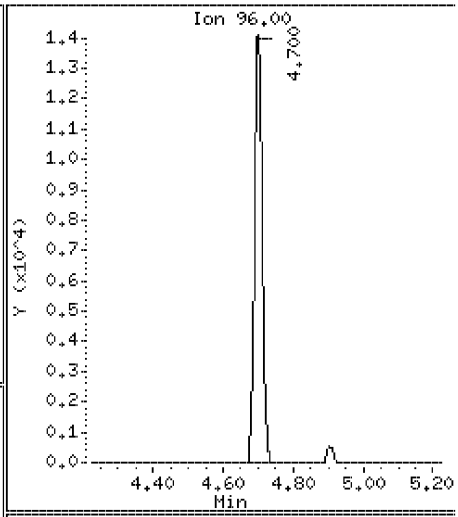
Concentration: 453 ppbv

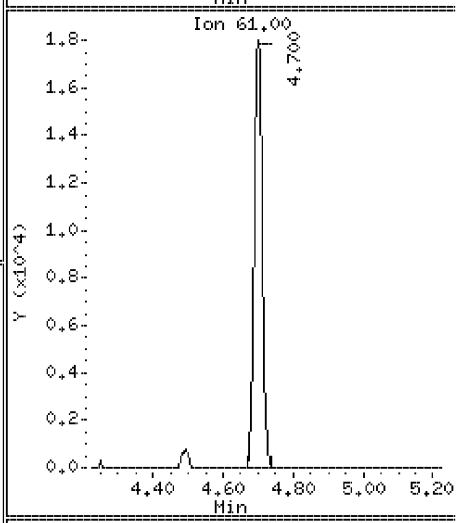


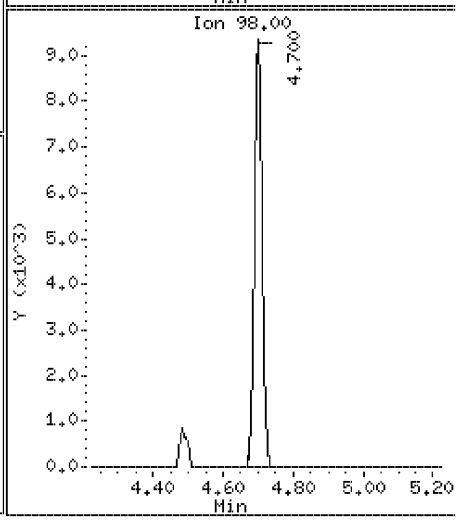












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06513.D

Date : 06-MAR-2017 14:34

Client ID:

Instrument: 10airB.i

Sample Info:

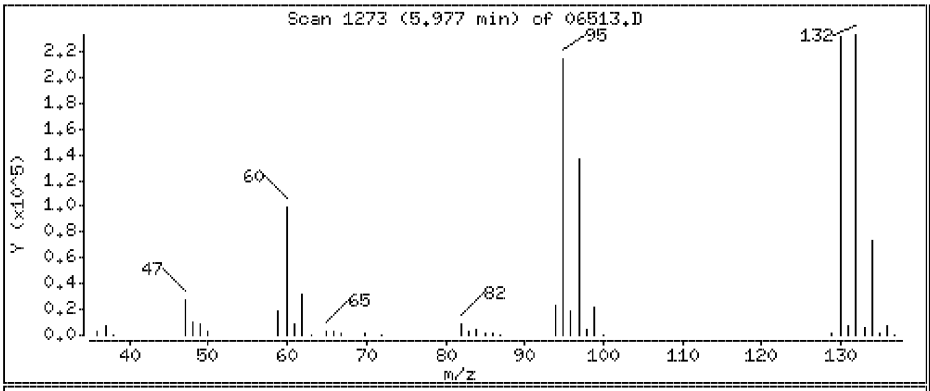
Operator: NCK

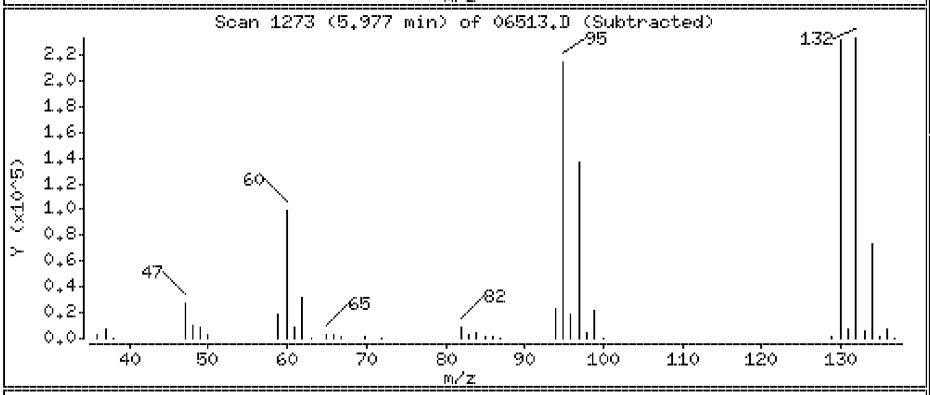
Column phase: J&W DB-5

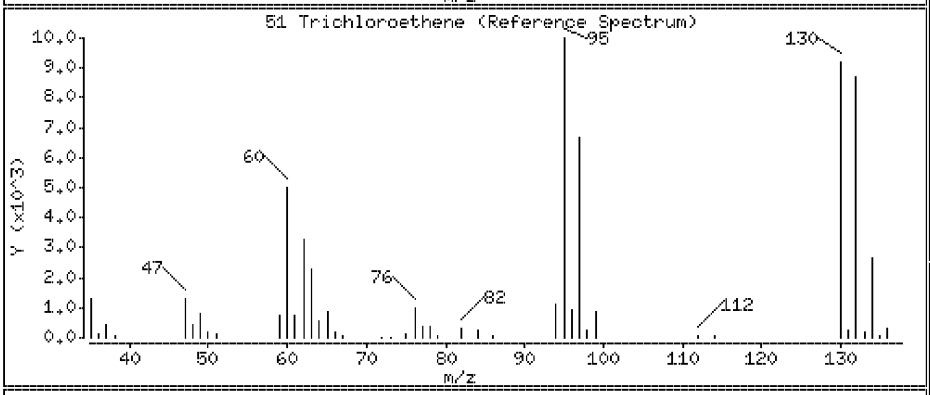
Column diameter: 0.32

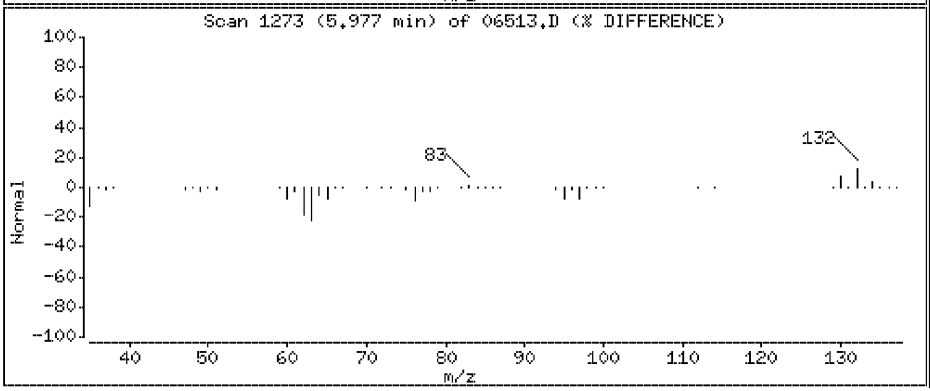
51 Trichloroethene

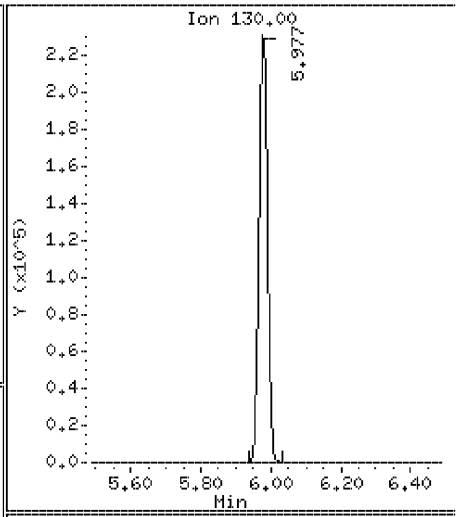
Concentration: 4830 ppbv

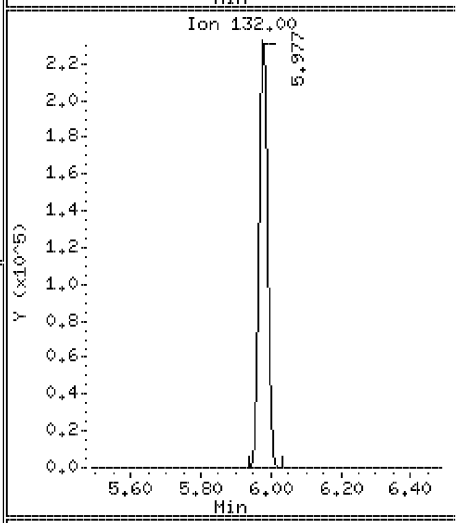


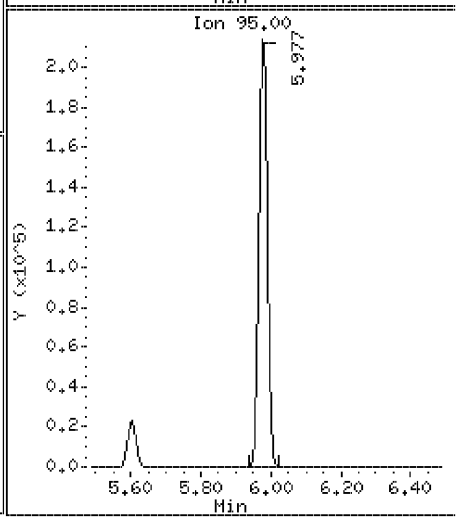












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06513.D

Date : 06-MAR-2017 14:34

Client ID:

Instrument: 10airB.i

Sample Info:

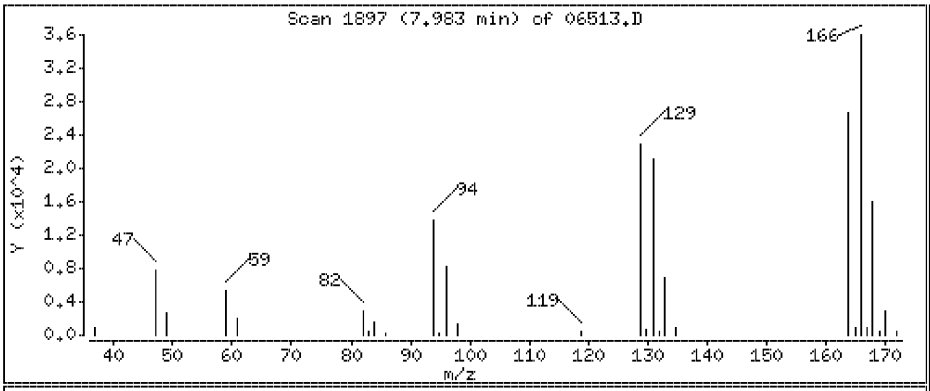
Operator: NCK

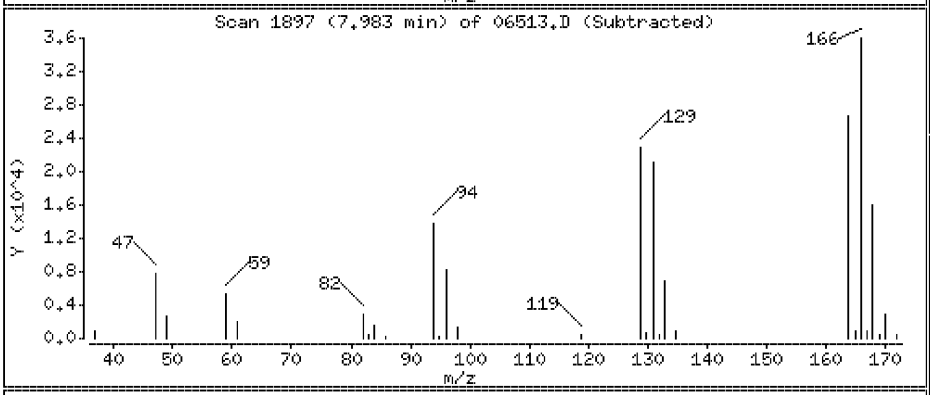
Column phase: J&W DB-5

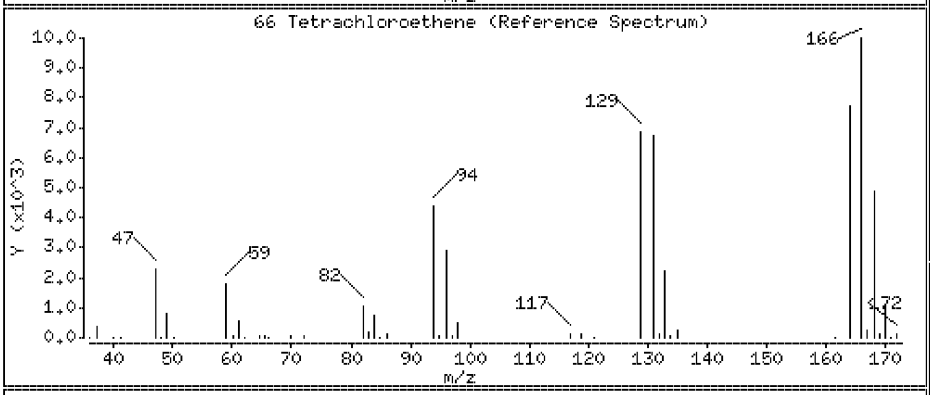
Column diameter: 0.32

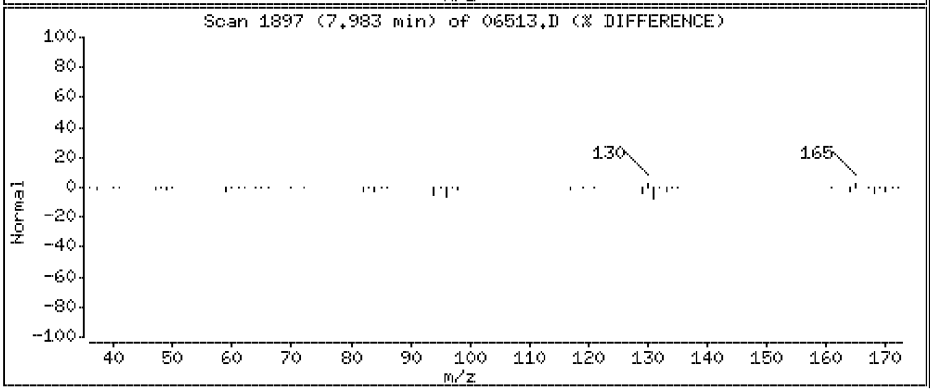
66 Tetrachloroethene

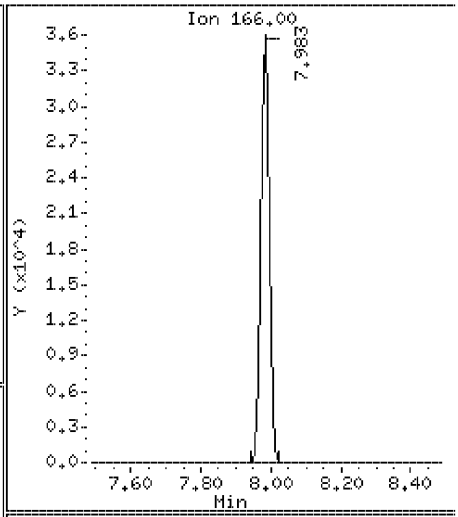
Concentration: 561 ppbv

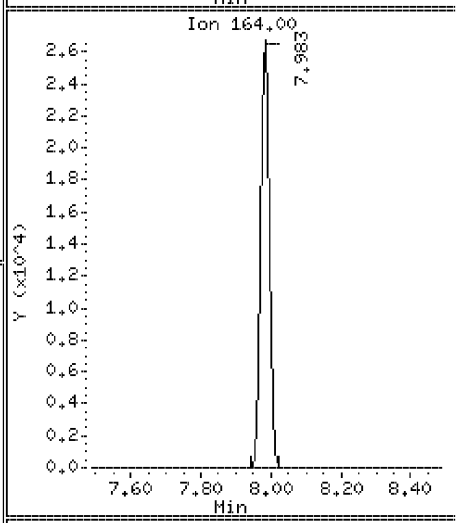


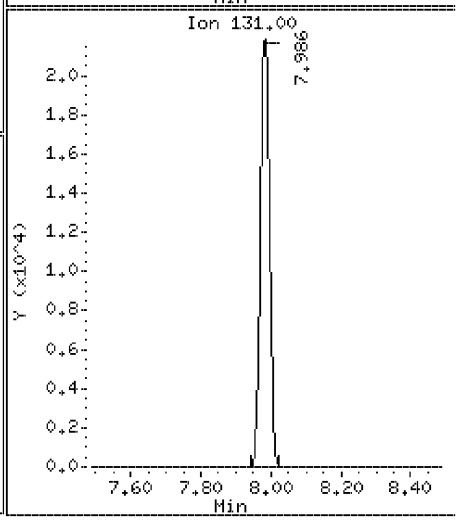












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06513.D
Injection Date: 06-MAR-2017 14:34
Instrument: 10airB.i
Lab Sample ID: 10380193011
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_50_20170223 **Lab ID: 10380193011** Collected: 02/23/17 11:56 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3,5-Trimethylbenzene	**1.1J**	ug/m3	1.8	0.33	1.83		03/06/17 00:39	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/06/17 00:39	75-01-4	
m&p-Xylene	**44.5**	ug/m3	3.2	1.4	1.83		03/06/17 00:39	179601-23-1	
o-Xylene	**10.7**	ug/m3	1.6	0.64	1.83		03/06/17 00:39	95-47-6	

Sample: VP-9_60_20170223 **Lab ID: 10380193012** Collected: 02/23/17 11:59 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.9**	ug/m3	4.4	1.5	1.83		03/06/17 01:10	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/06/17 01:10	107-05-1	
Benzene	**2.5**	ug/m3	0.59	0.22	1.83		03/06/17 01:10	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/06/17 01:10	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/06/17 01:10	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/06/17 01:10	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/06/17 01:10	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/06/17 01:10	78-93-3	
Carbon disulfide	**0.88J**	ug/m3	1.2	0.18	1.83		03/06/17 01:10	75-15-0	
Carbon tetrachloride	**1.1J**	ug/m3	1.2	0.35	1.83		03/06/17 01:10	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/06/17 01:10	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/06/17 01:10	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/06/17 01:10	75-00-3	
Chloroform	**40.2**	ug/m3	0.91	0.35	1.83		03/06/17 01:10	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/06/17 01:10	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/06/17 01:10	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/06/17 01:10	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/06/17 01:10	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/06/17 01:10	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/06/17 01:10	106-93-4	
1,2-Dichlorobenzene	**4.2**	ug/m3	2.2	0.94	1.83		03/06/17 01:10	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/06/17 01:10	541-73-1	
1,4-Dichlorobenzene	**1.1J**	ug/m3	2.2	0.91	1.83		03/06/17 01:10	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	0.88	1.83		03/06/17 01:10	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/06/17 01:10	75-34-3	
1,2-Dichloroethane	**0.94**	ug/m3	0.75	0.38	1.83		03/06/17 01:10	107-06-2	
1,1-Dichloroethene	**12.4**	ug/m3	1.5	0.44	1.83		03/06/17 01:10	75-35-4	
cis-1,2-Dichloroethene	**576**	ug/m3	1.5	0.45	1.83		03/06/17 01:10	156-59-2	
cis-1,2-Dichloroethene	**1210**	ug/m3	237	72.0	292.8		03/06/17 15:02	156-59-2	A3
trans-1,2-Dichloroethene	**12.7**	ug/m3	1.5	0.70	1.83		03/06/17 01:10	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/06/17 01:10	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/06/17 01:10	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/06/17 01:10	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/06/17 01:10	76-14-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D
Report Date: 07-Mar-2017 08:25

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06432.D
Lab Smp Id: 10380193012
Inj Date : 06-MAR-2017 01:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 32
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.024	3.021	(0.538)	15053	0.30449	0.557	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	3.195	3.201	(0.568)	3050	0.22085	0.404	
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.542	(0.631)	18146	3.54920	6.50	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.561	3.578	(0.633)	17314	1.11479	2.04(QM)	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.642	3.655	(0.648)	14942	0.39169	0.717	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.729	3.713	(0.663)	59373	2.68931	4.92	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.883	3.896	(0.691)	37362	1.68404	3.08	
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.941	3.934	(0.701)	564679	19.6022	35.9	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D
Report Date: 07-Mar-2017 08:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.976	3.992	(0.707)	12941	0.83049	1.52	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	4.082	4.108	(0.726)	4475	0.15249	0.279	
	28 trans-1,2-dichloroethene	96	4.256	4.269	(0.757)	21510	1.72798	3.16	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.481	(0.797)	389506	8.79858	8.80	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.581	4.578	(0.815)	7423	0.33454	0.612(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.709	4.722	(0.838)	1085786	78.0690	143(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.822	4.838	(0.858)	127635	4.42769	8.10	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.227	5.227	(0.930)	32560	0.96011	1.76	
	42 1,2-Dichloroethane	62	5.227	5.233	(0.930)	3206	0.12462	0.228	
	43 Benzene	78	5.481	5.465	(0.975)	18547	0.41330	0.756	
	44 Carbon tetrachloride	117	5.484	5.484	(0.975)	3314	0.09778	0.179(H)	
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.622	5.610	(1.000)	1391442	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.921	5.889	(1.053)	4717	0.18812	0.344(QH)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.024	5.986	(1.071)	8733186	373.551	684(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	6.445	6.430	(1.146)	1653	0.13009	0.238	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.089	7.076	(1.261)	1150280	9.23639	9.24	
	60 1,1,2-Trichloroethane	97	7.153	7.143	(1.272)	11657	0.62464	1.14	
	61 Toluene	91	7.163	7.153	(1.274)	150421	2.67662	4.90	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.587	7.584	(0.877)	11215	0.36871	0.675(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.005	7.986	(0.925)	3496203	113.222	207(A)	
*	67 Chlorobenzene - d5	117	8.651	8.645	(1.000)	889276	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	8.937	8.934	(1.033)	26665	0.40768	0.746	
	70 m&p-Xylene	91	9.082	9.082	(1.050)	81385	1.58532	2.90	
	71 n-Nonane	43	9.478	9.468	(1.095)	4640	0.17524	0.321	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.580	9.581	(1.107)	19125	0.36618	0.670	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D
Report Date: 07-Mar-2017 08:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.908	10.912	(1.261)	3842	0.14873	0.272(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.381	11.378	(2.024)	12043	0.56776	1.04(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.510	11.513	(1.330)	6802	0.12876	0.236	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.370)	505580	10.3207	10.3	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	11.883	11.889	(1.373)	3506	0.10131	0.185(Q)	
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.420)	10774	0.37468	0.686	
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.178	14.169	(1.639)	2398	0.40520	0.742(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D
Report Date: 07-Mar-2017 08:25

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06432.D
Lab Smp Id: 10380193012
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

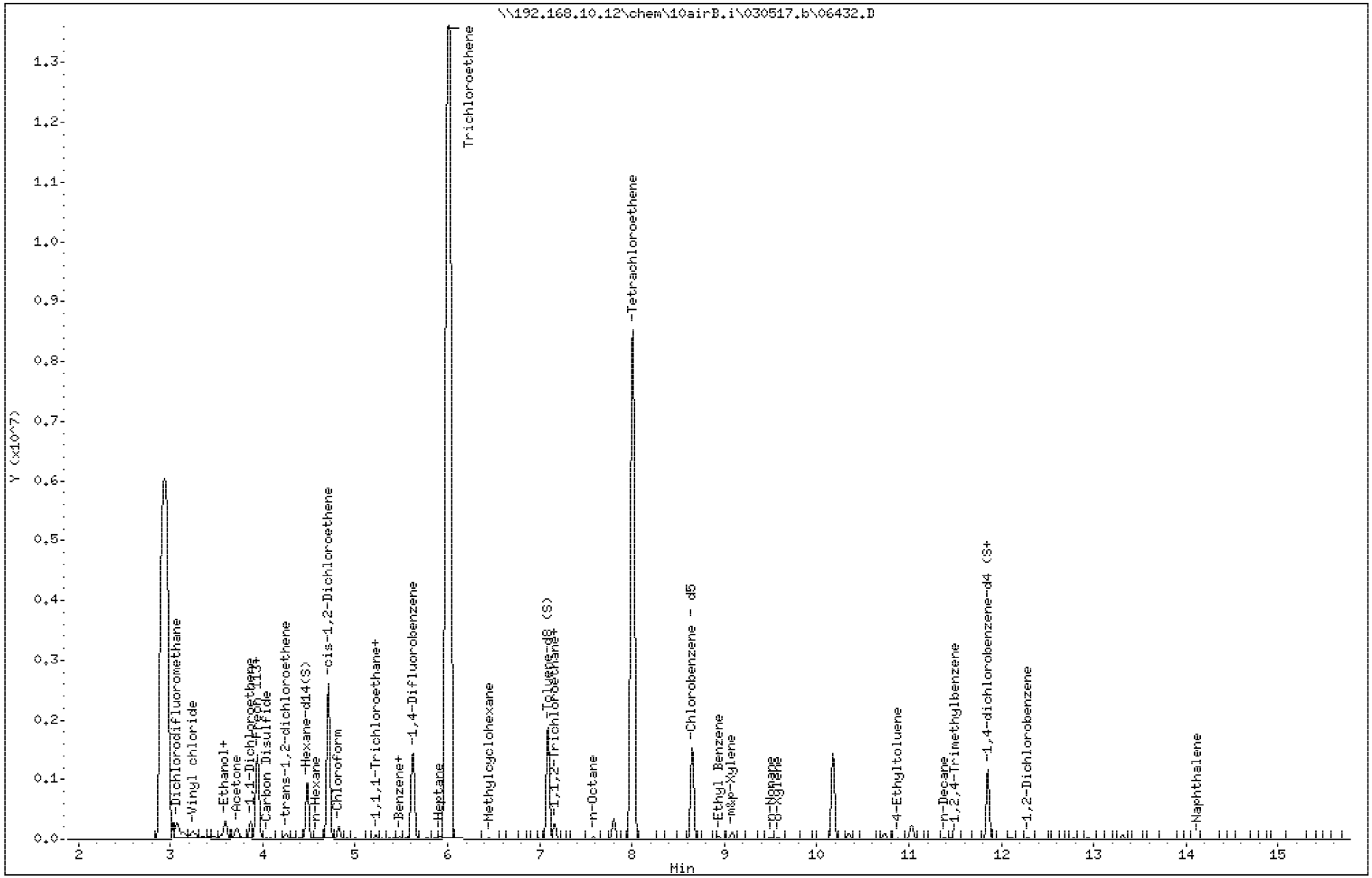
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1391442	-1.60
67 Chlorobenzene - d	951026	570616	1331436	889276	-6.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D
Date : 06-MAR-2017 01:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

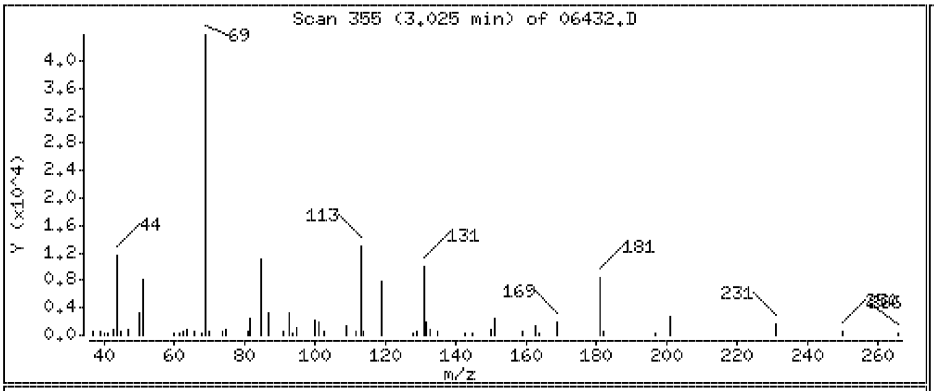
Operator: NCK

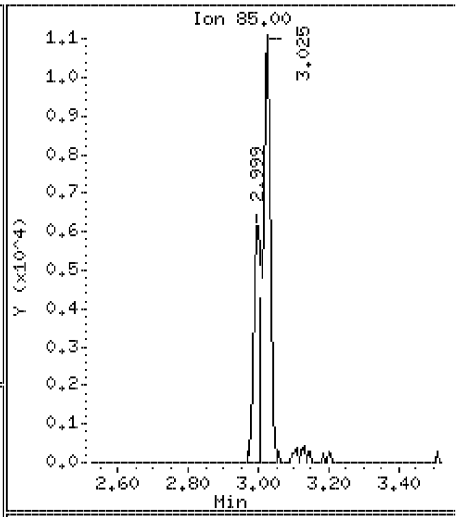
Column phase: J&W DB-5

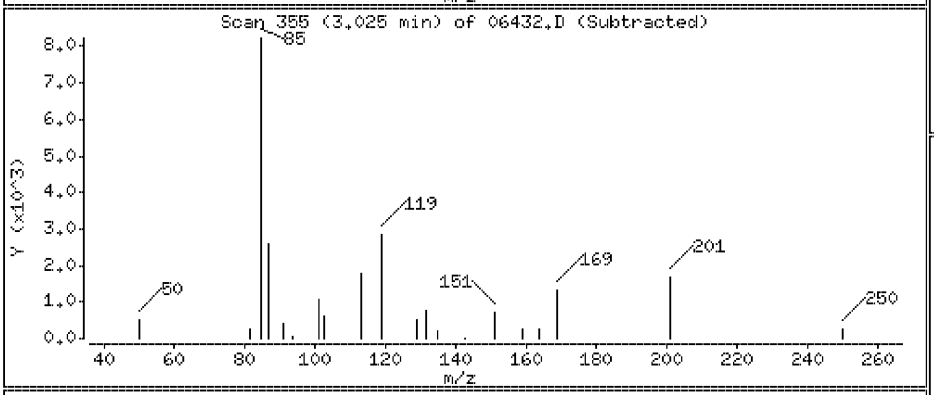
Column diameter: 0.32

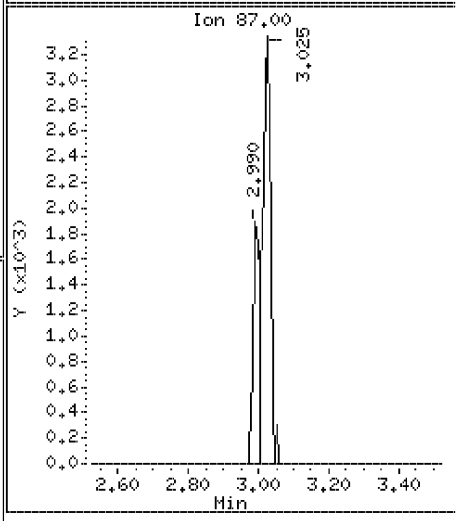
5 Dichlorodifluoromethane

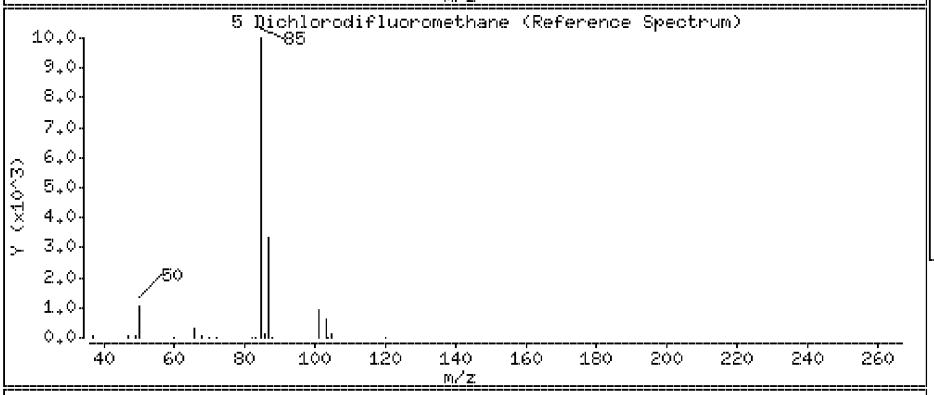
Concentration: 0.557 ppbv

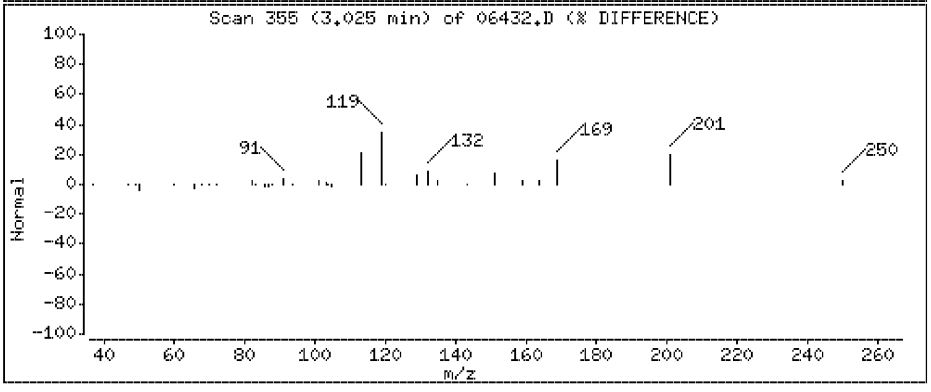












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

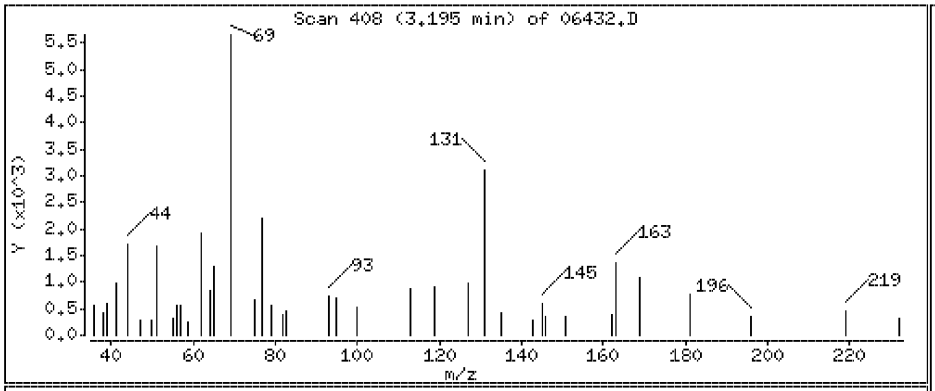
Operator: NCK

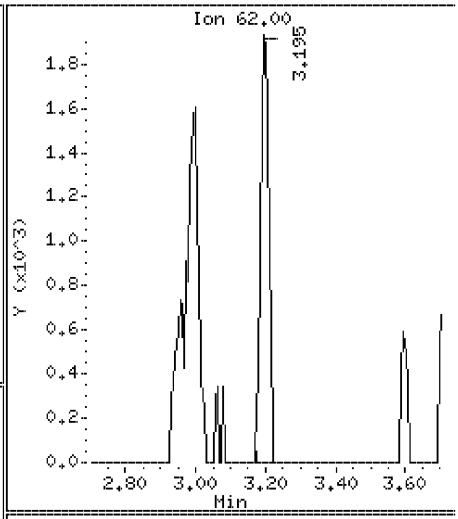
Column phase: J&W DB-5

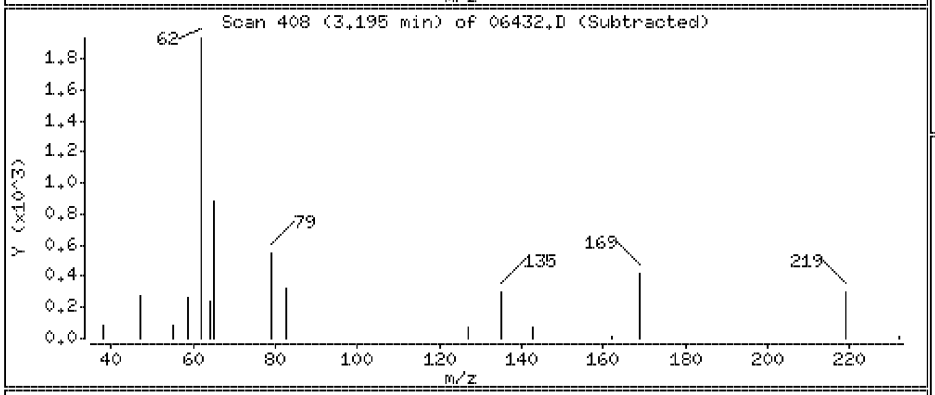
Column diameter: 0.32

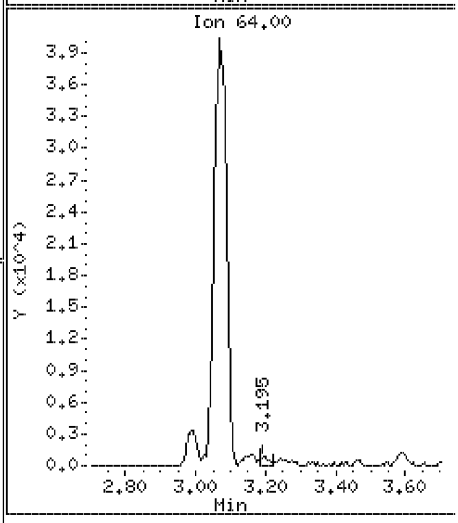
8 Vinyl chloride

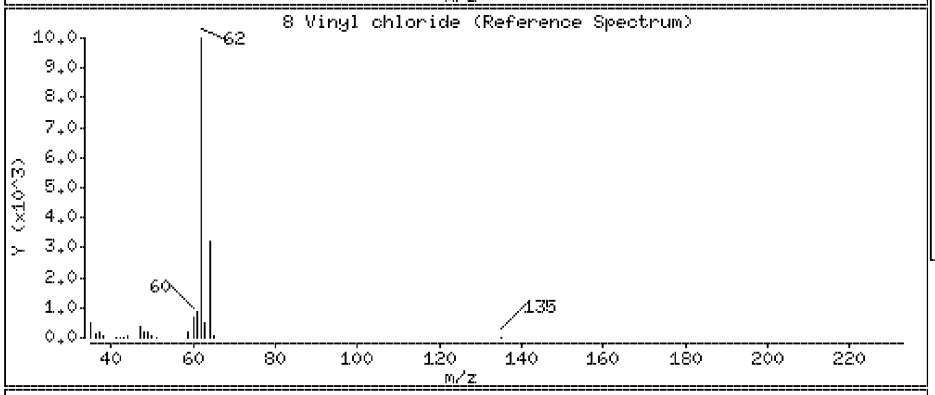
Concentration: 0.404 ppbv

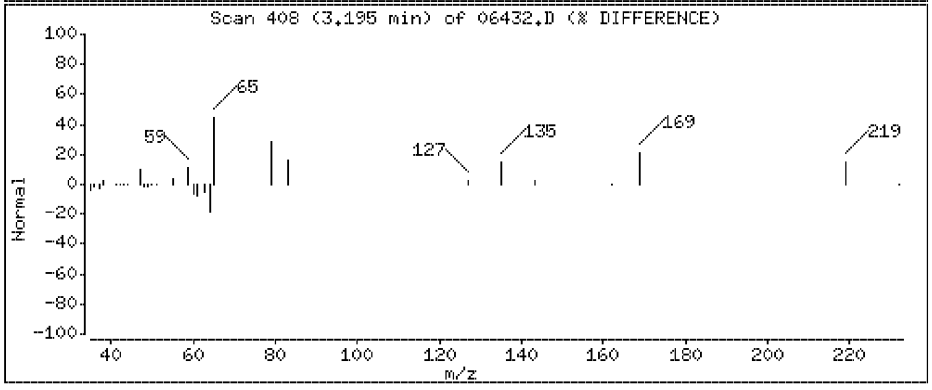












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

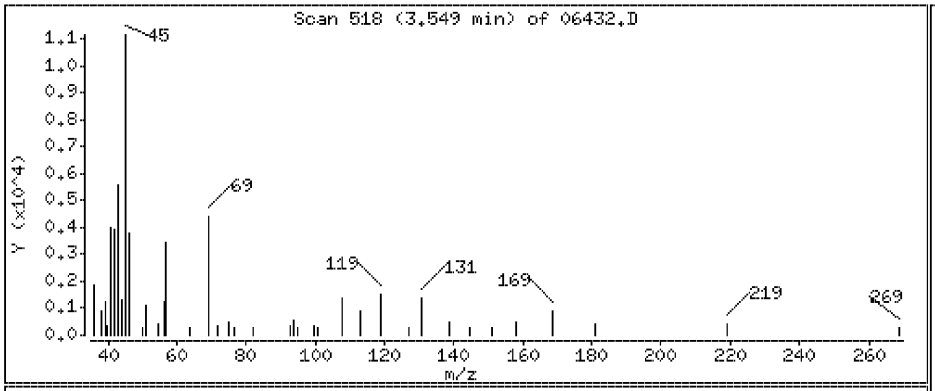
Operator: NCK

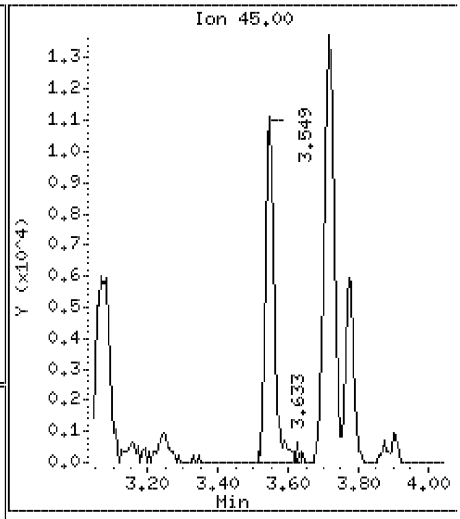
Column phase: J&W DB-5

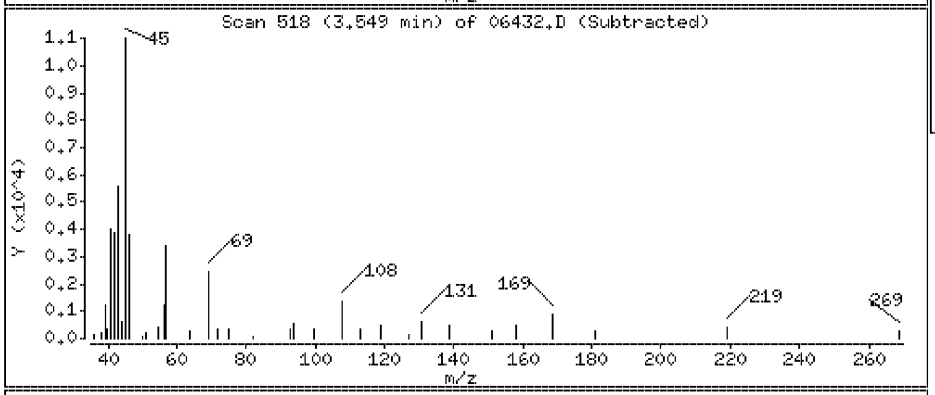
Column diameter: 0.32

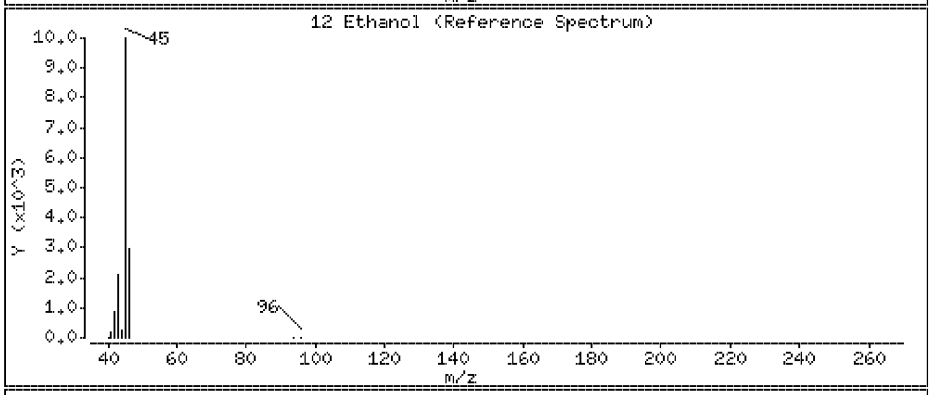
12 Ethanol

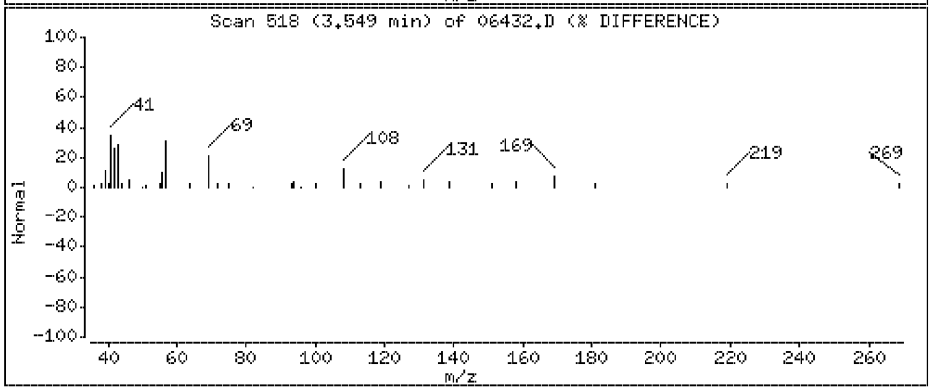
Concentration: 6.50 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

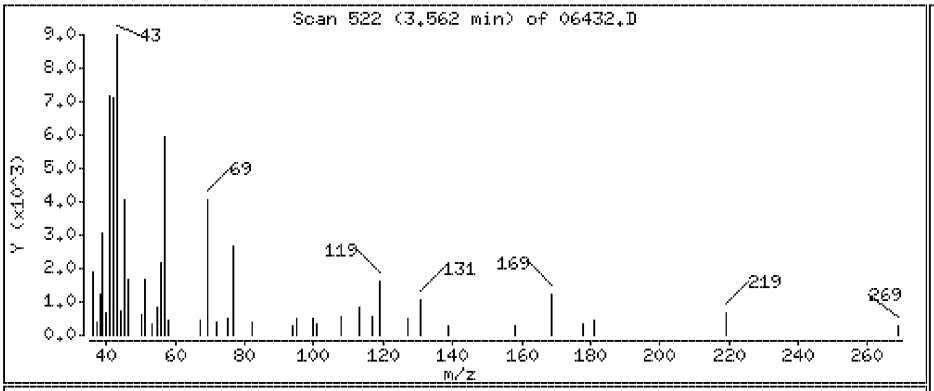
Operator: NCK

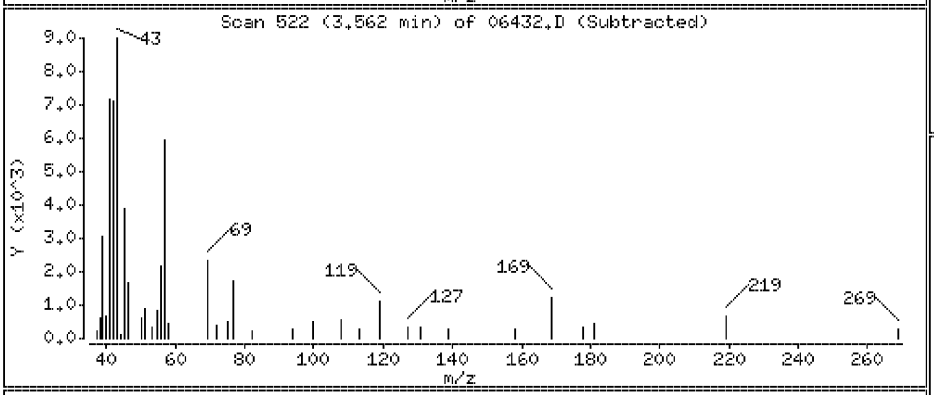
Column phase: J&W DB-5

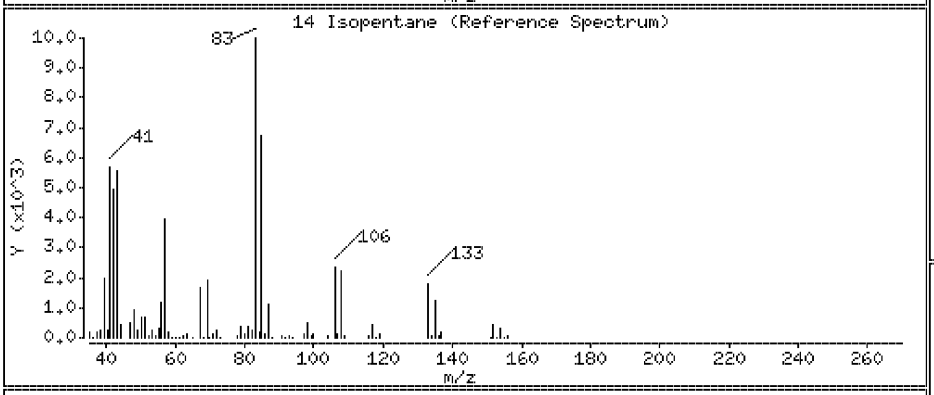
Column diameter: 0.32

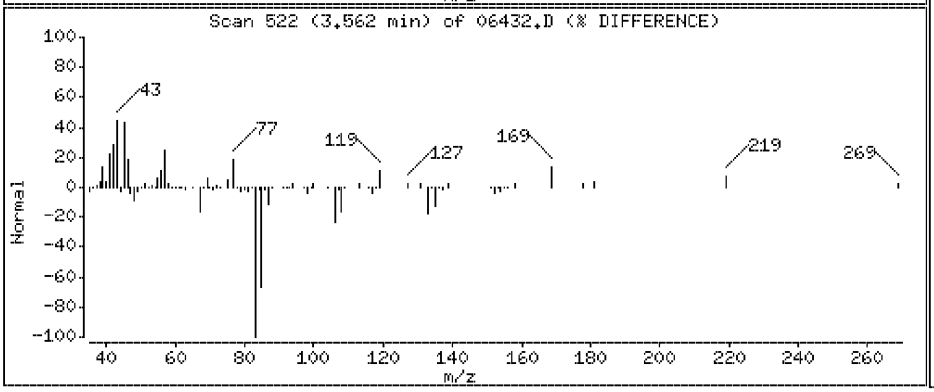
14 Isopentane

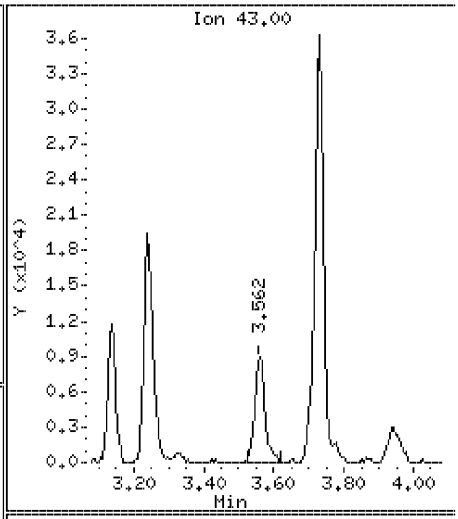
Concentration: 2.04 ppbv

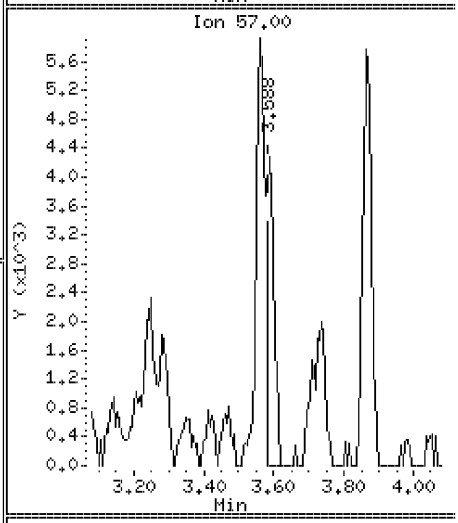


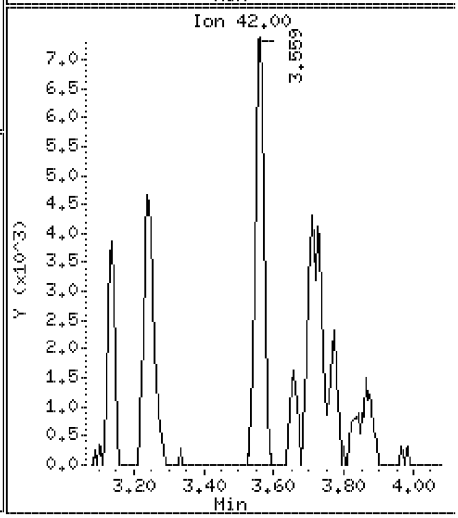












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

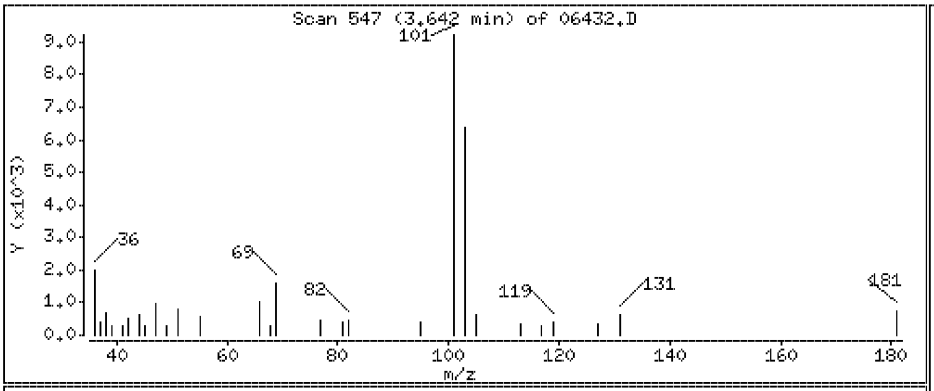
Operator: NCK

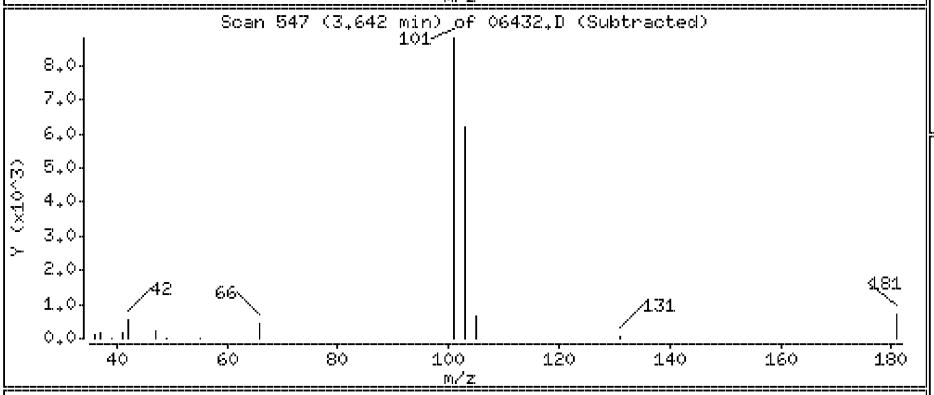
Column phase: J&W DB-5

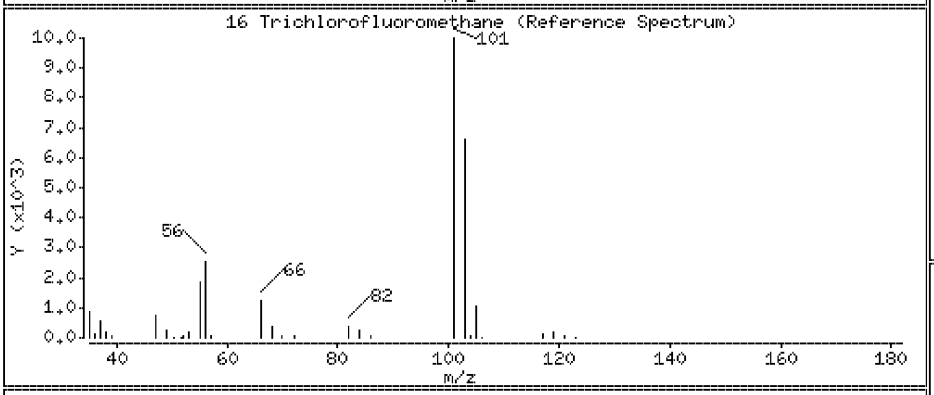
Column diameter: 0.32

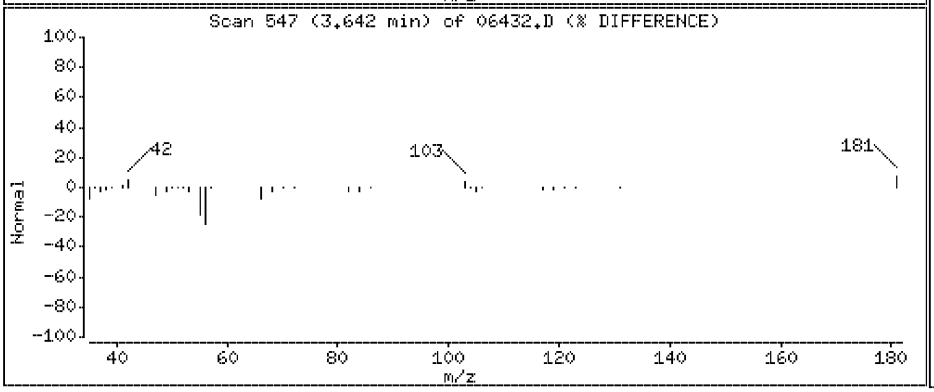
16 Trichlorofluoromethane

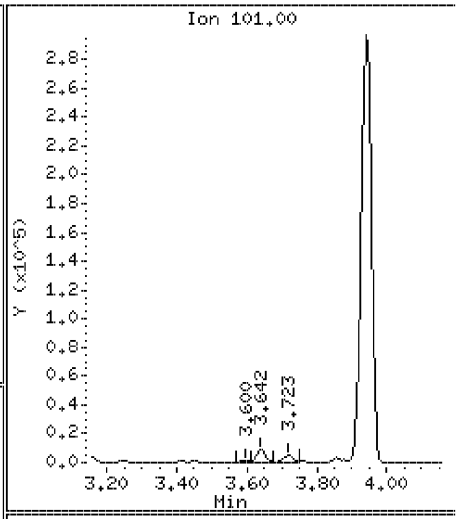
Concentration: 0.717 ppbv

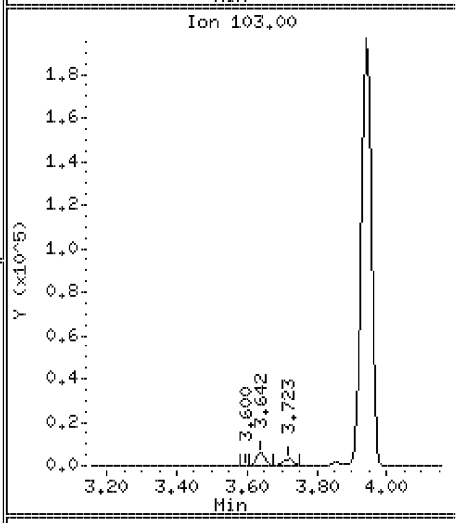


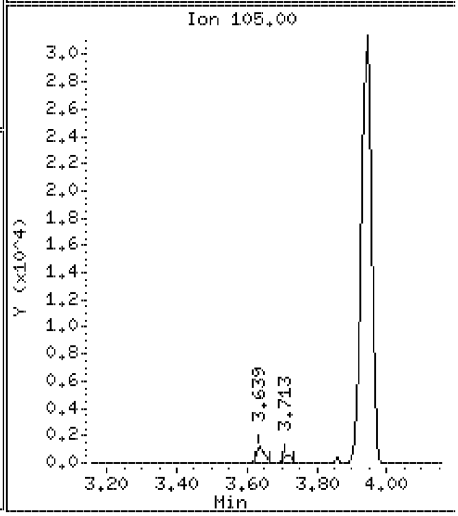












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

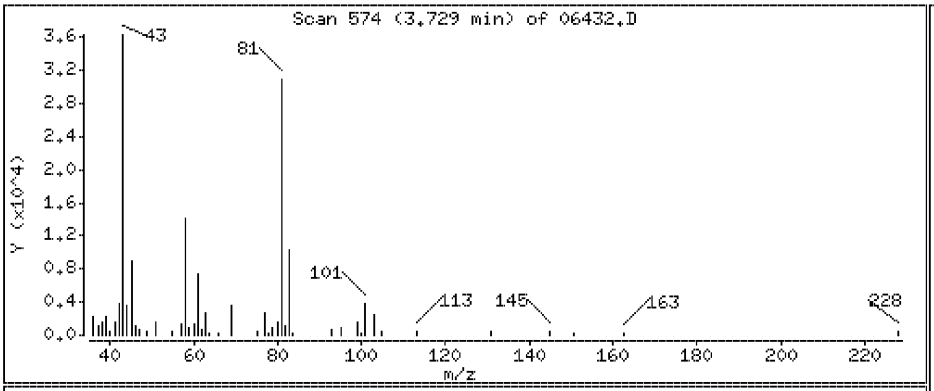
Operator: NCK

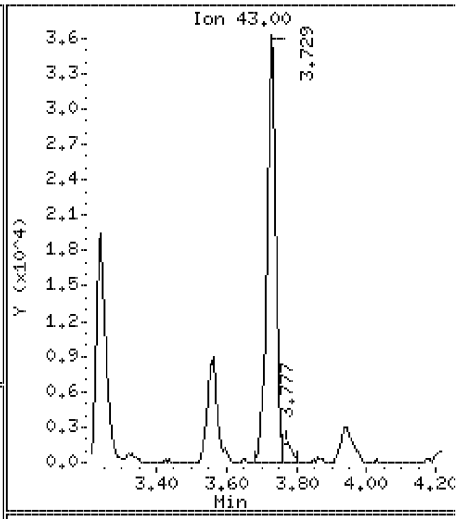
Column phase: J&W DB-5

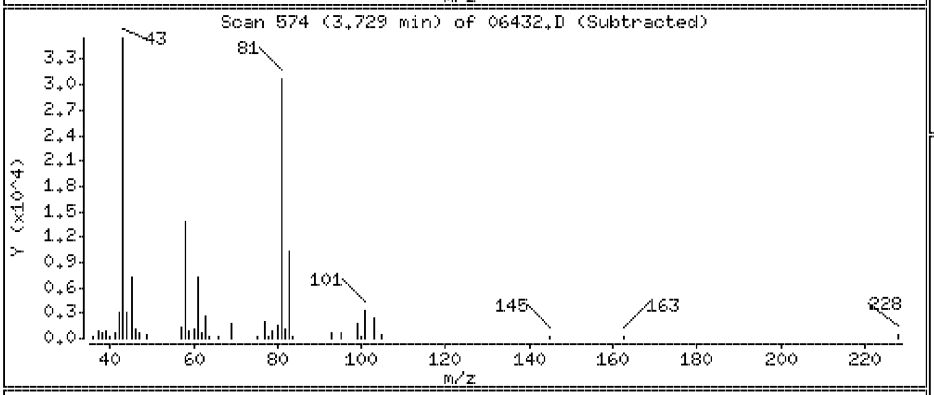
Column diameter: 0.32

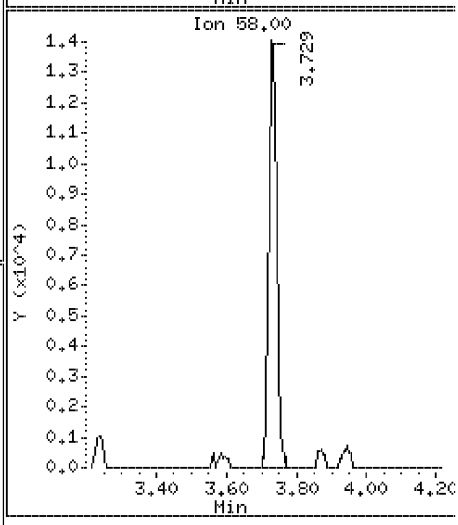
18 Acetone

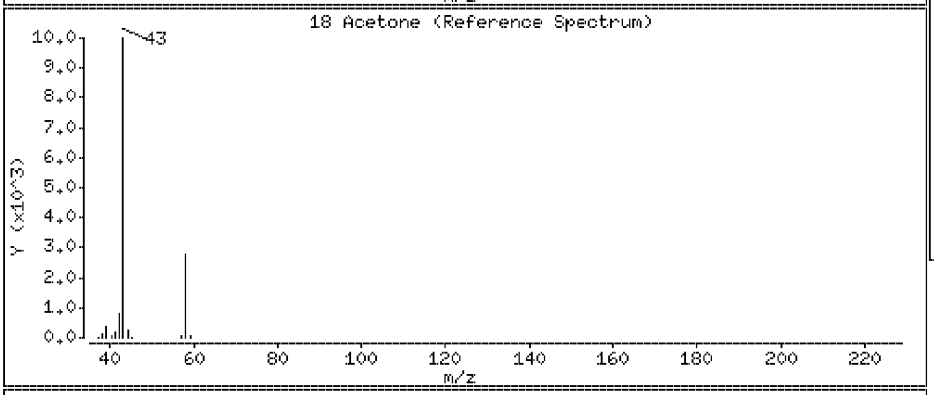
Concentration: 4.92 ppbv

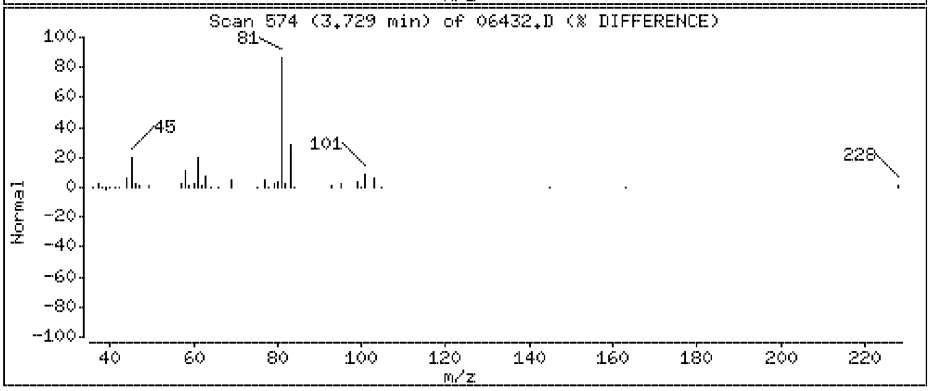












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

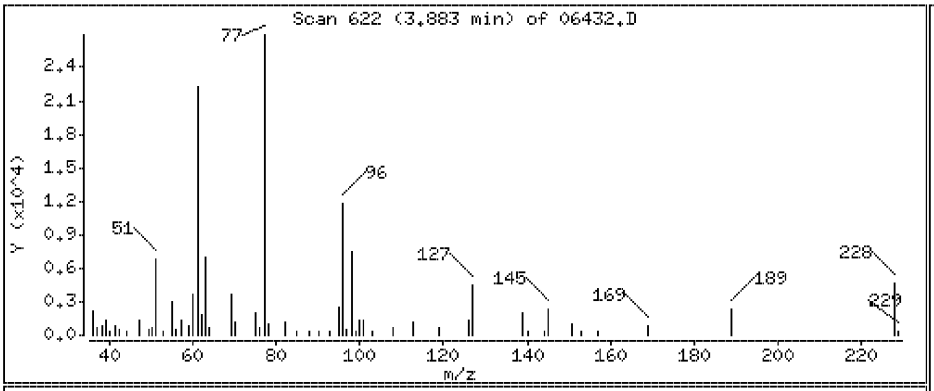
Operator: NCK

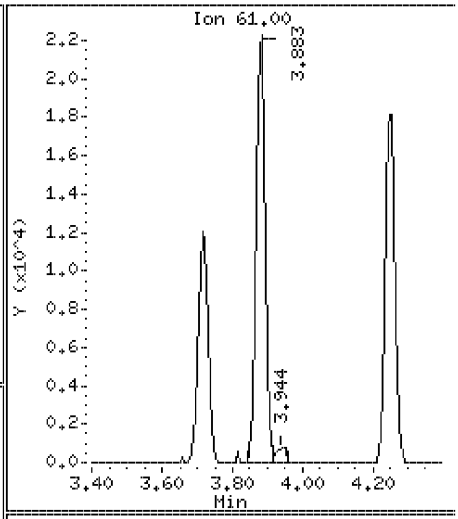
Column phase: J&W DB-5

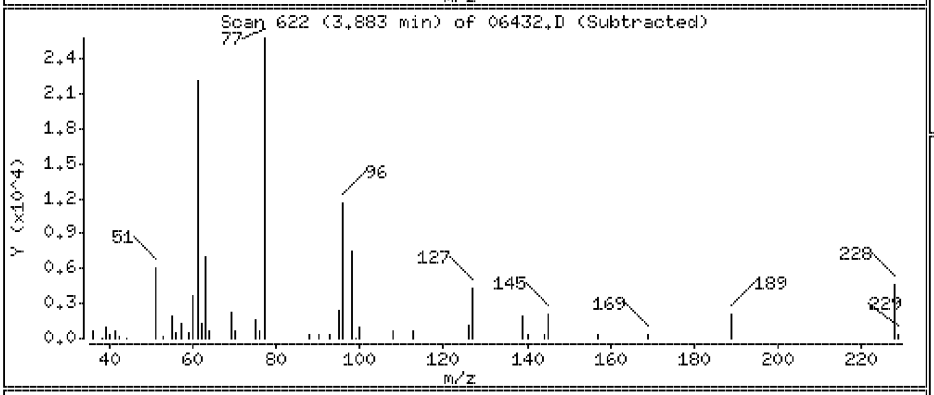
Column diameter: 0.32

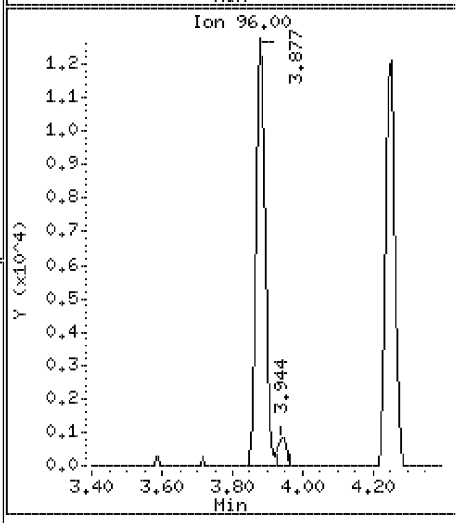
20 1,1-Dichloroethene

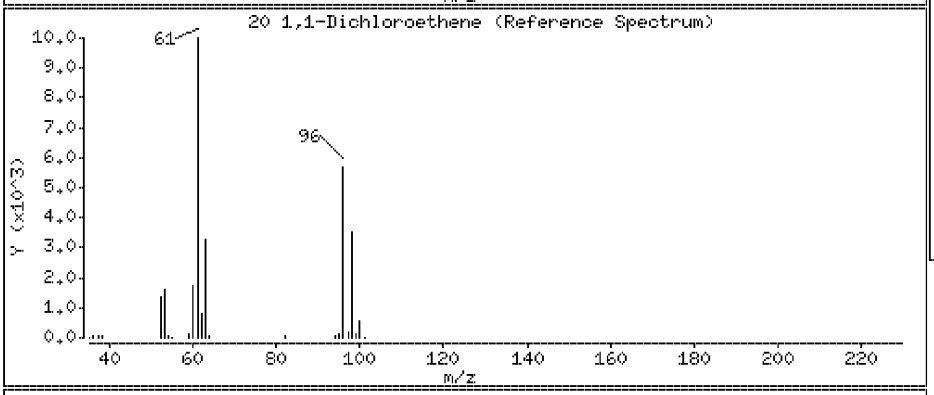
Concentration: 3.08 ppbv

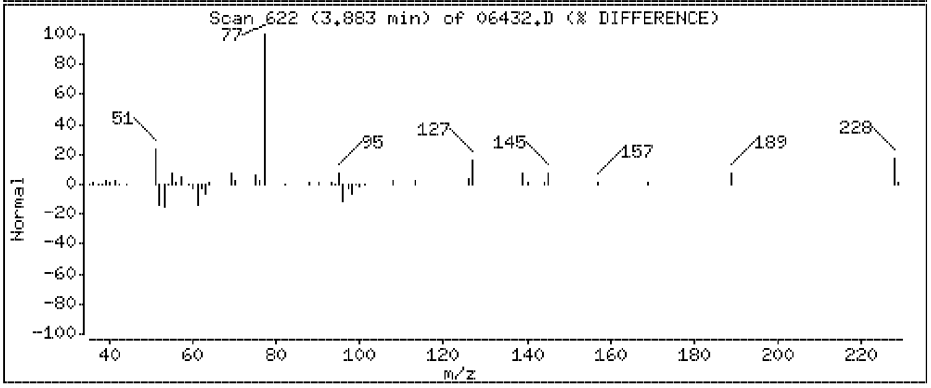












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

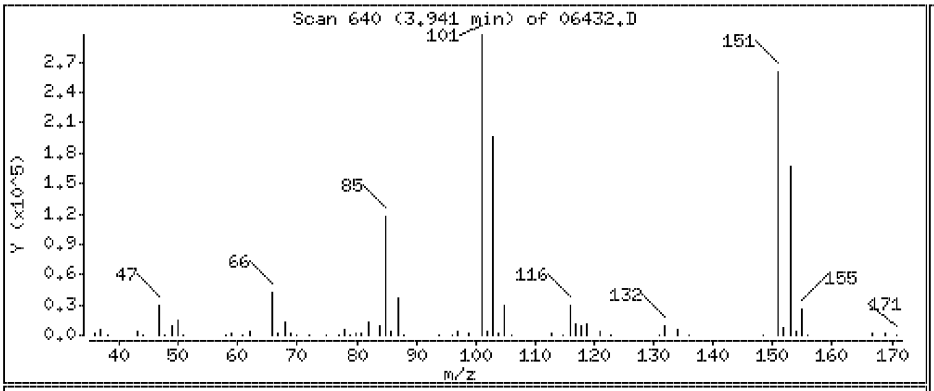
Operator: NCK

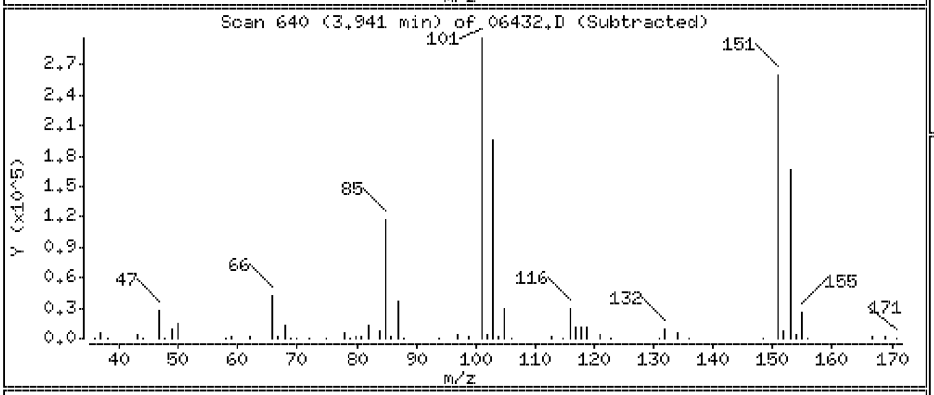
Column phase: J&W DB-5

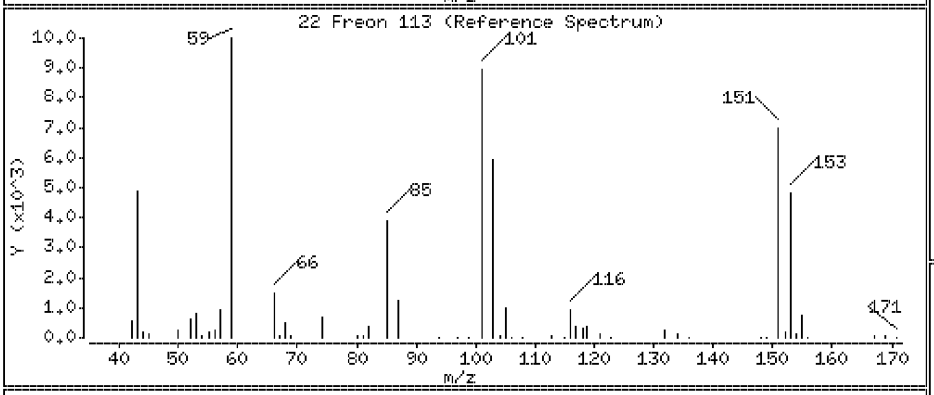
Column diameter: 0.32

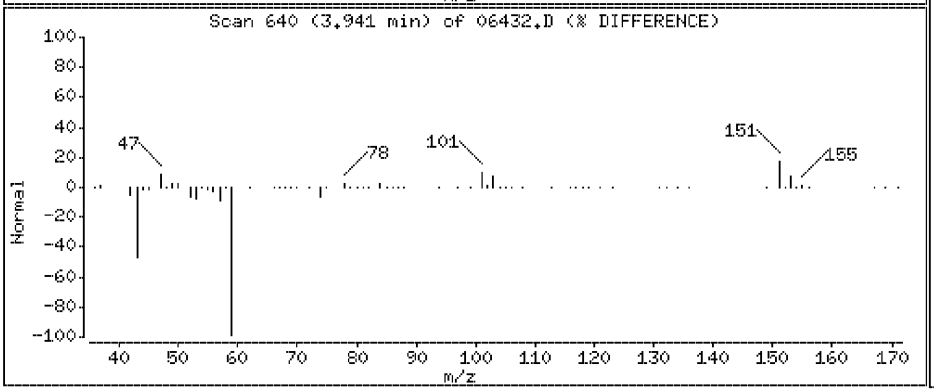
22 Freon 113

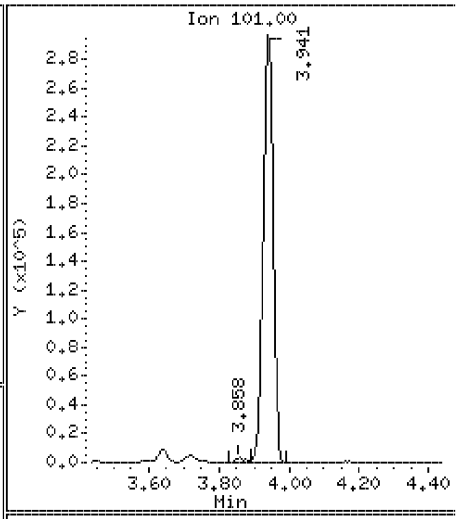
Concentration: 35.9 ppbv

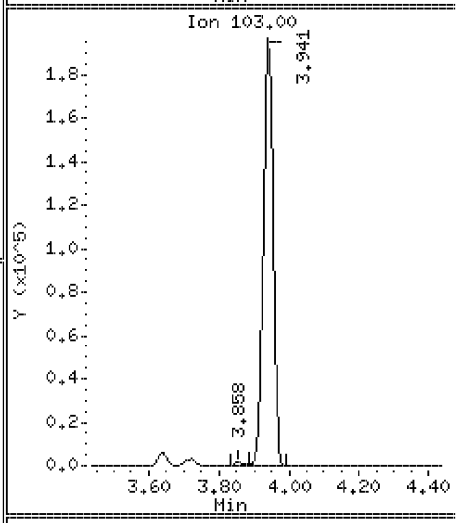


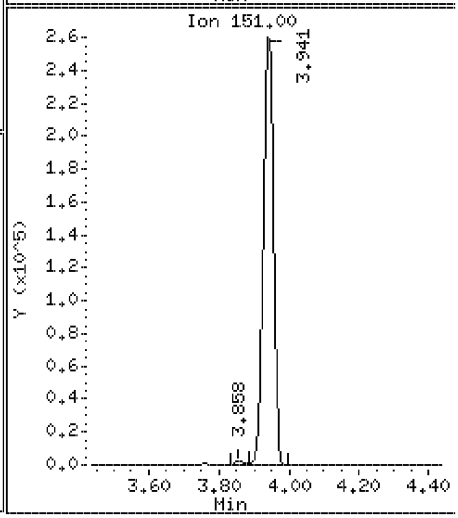












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

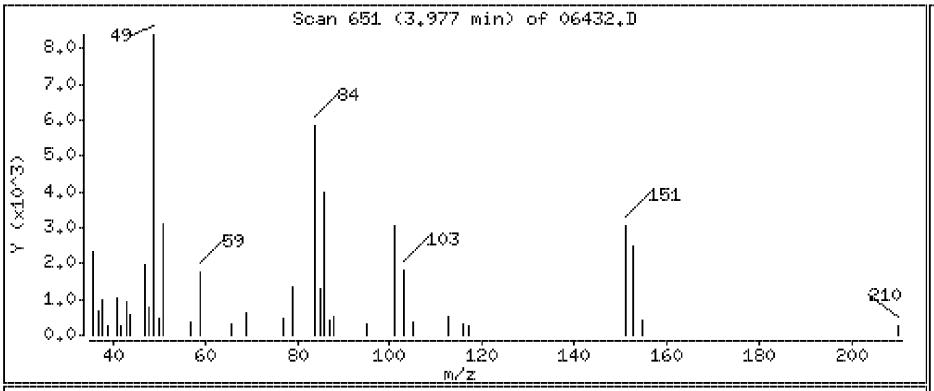
Operator: NCK

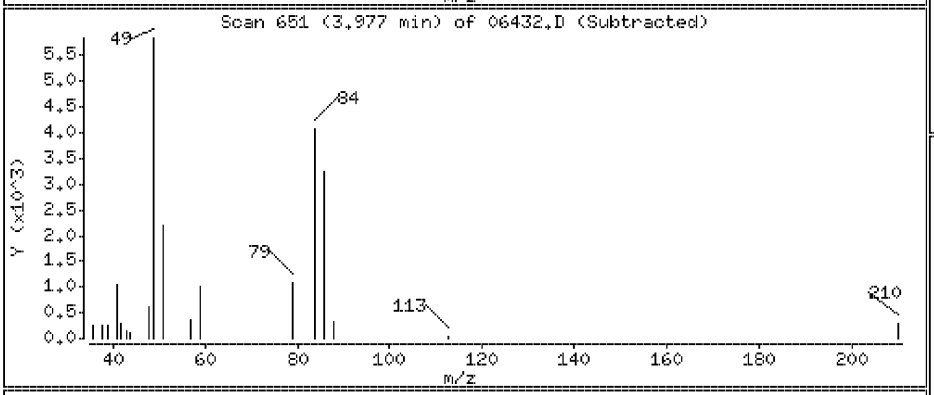
Column phase: J&W DB-5

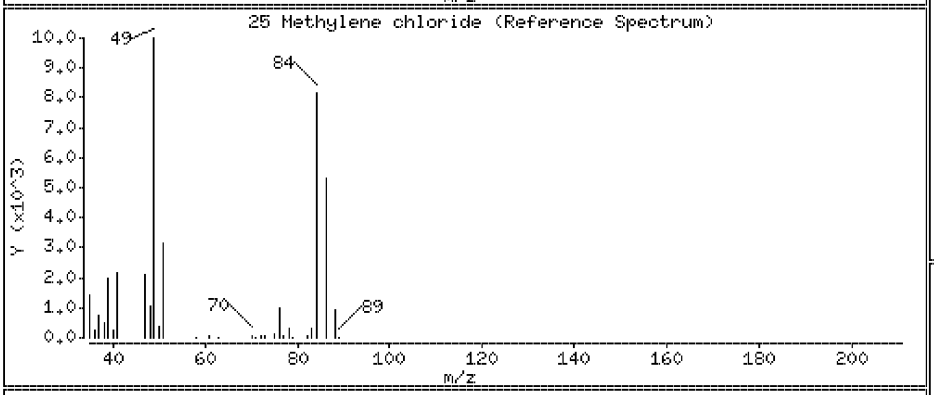
Column diameter: 0.32

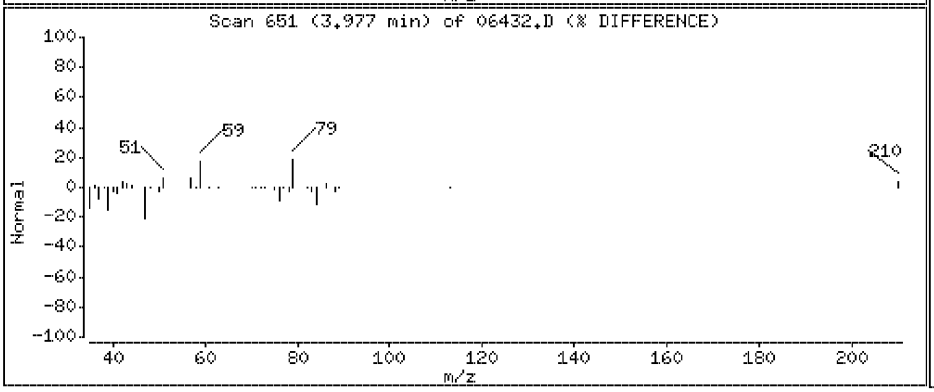
25 Methylene chloride

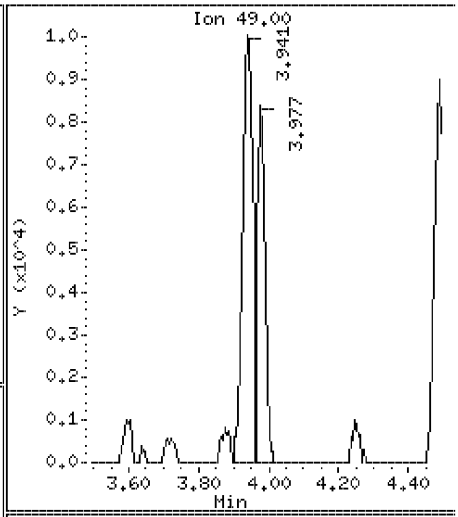
Concentration: 1.52 ppbv

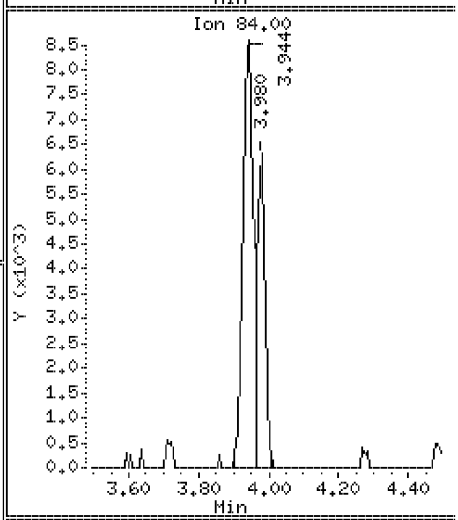


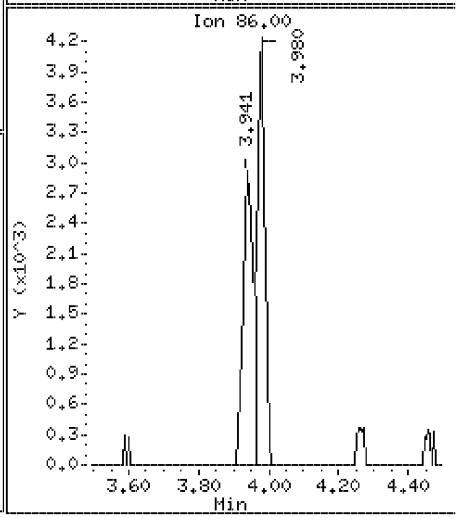












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

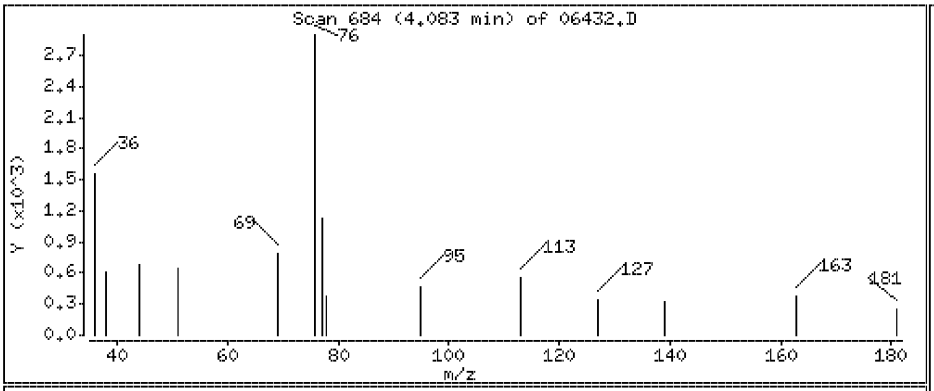
Operator: NCK

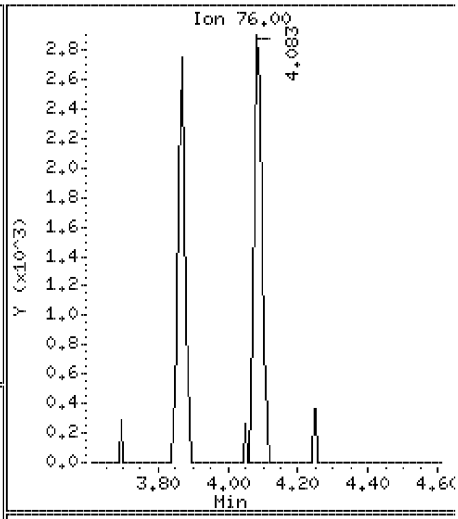
Column phase: J&W DB-5

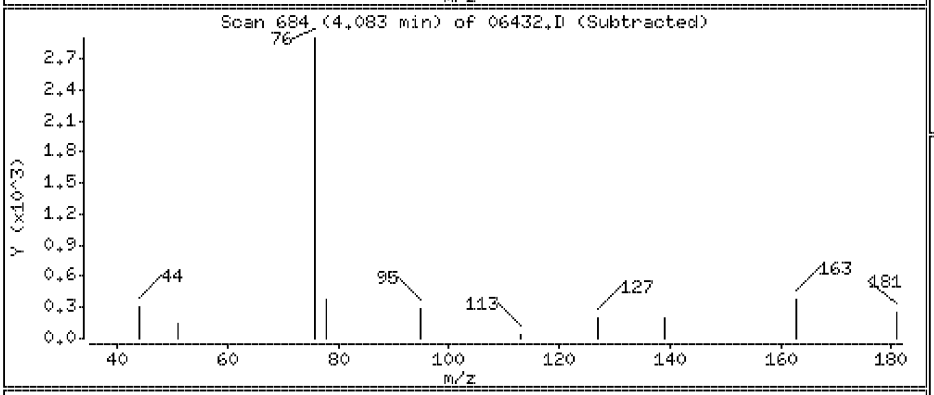
Column diameter: 0.32

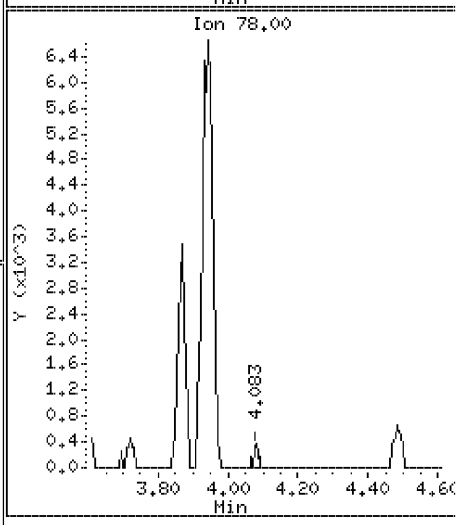
27 Carbon Disulfide

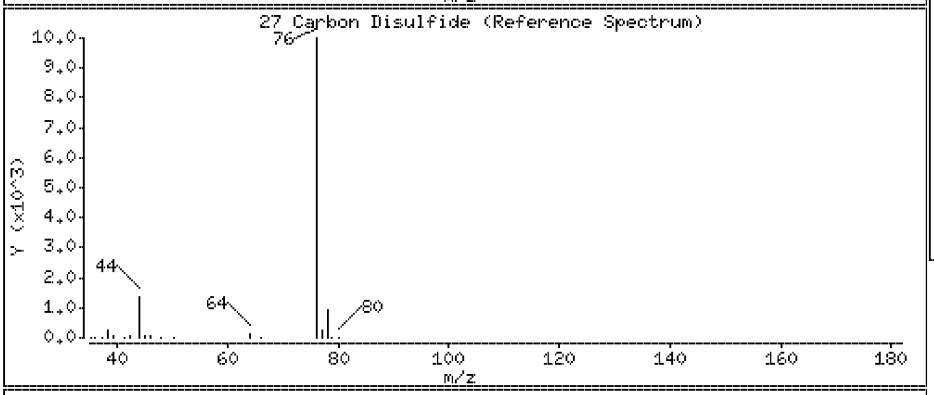
Concentration: 0.279 ppbv

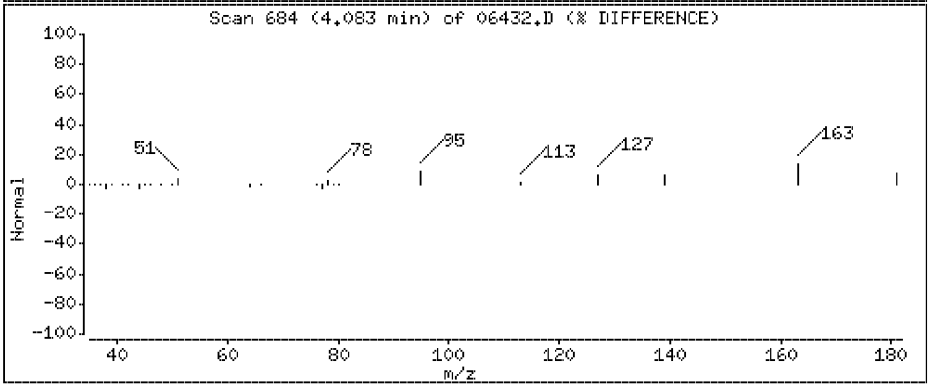












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

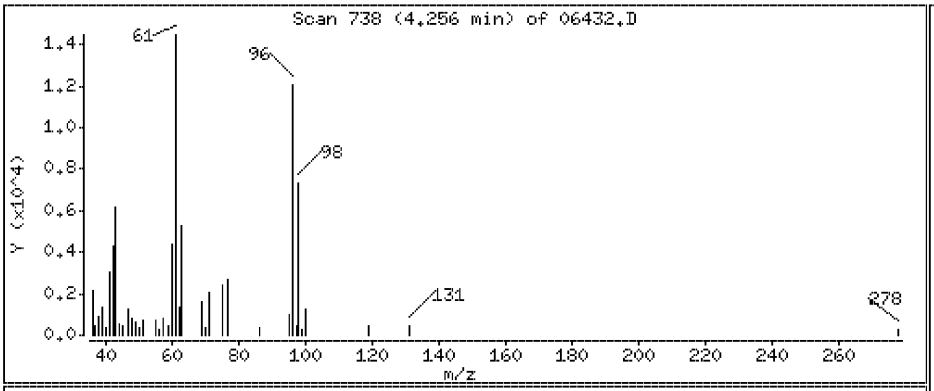
Operator: NCK

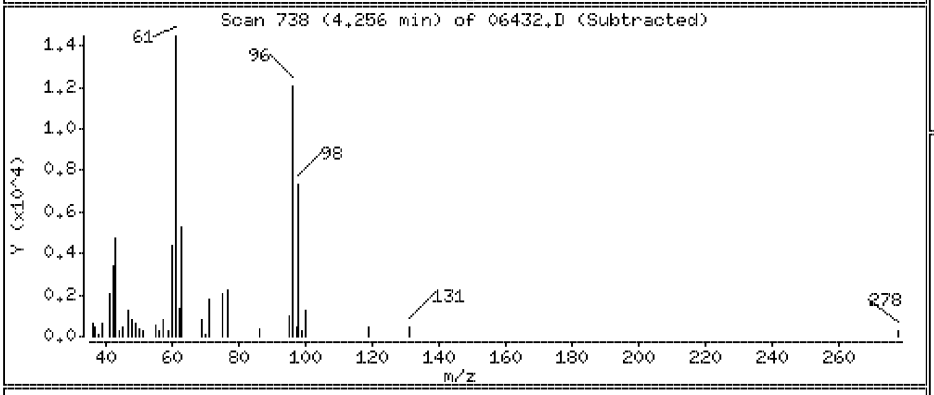
Column phase: J&W DB-5

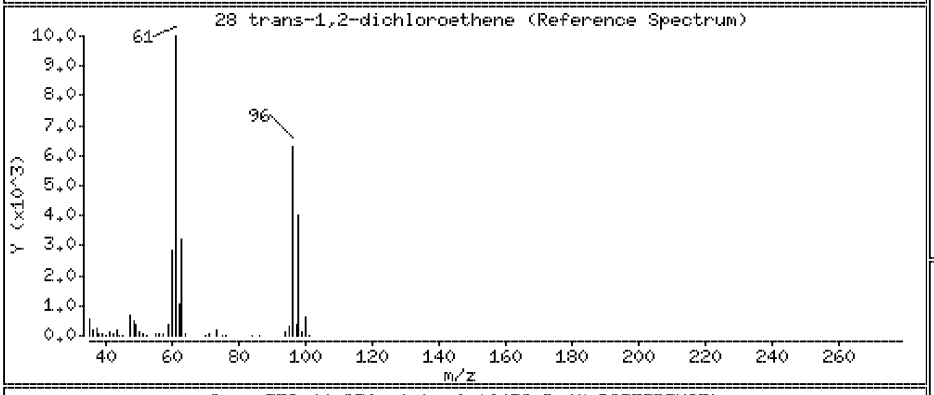
Column diameter: 0.32

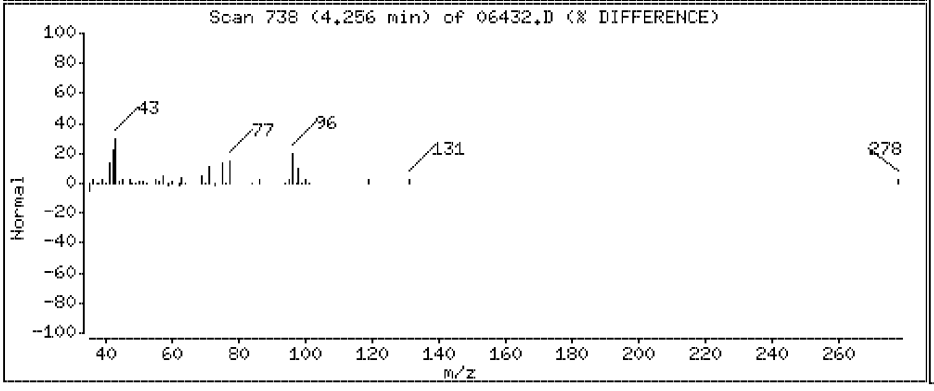
28 trans-1,2-dichloroethene

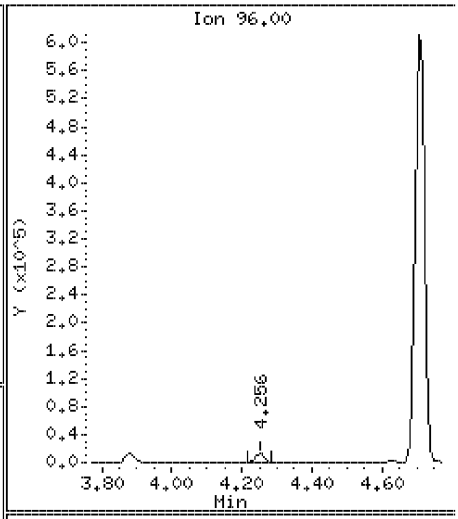
Concentration: 3.16 ppbv

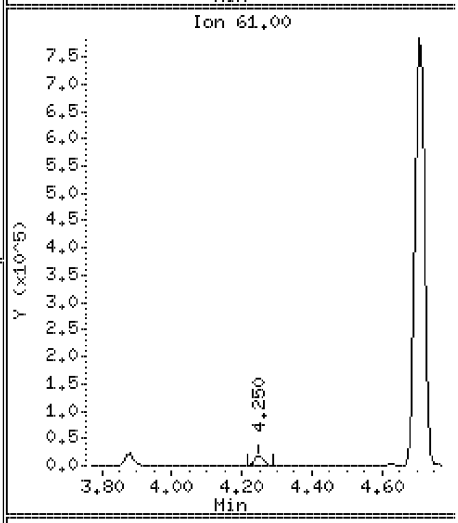


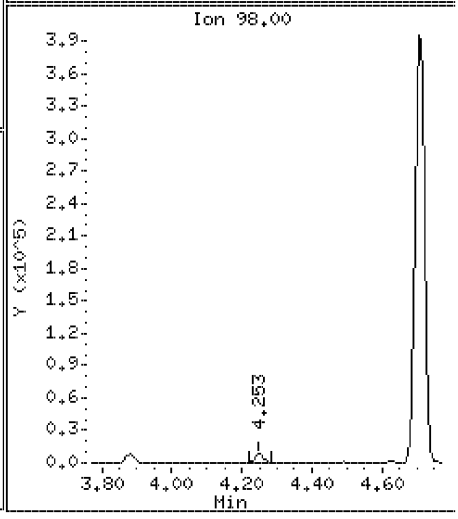












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

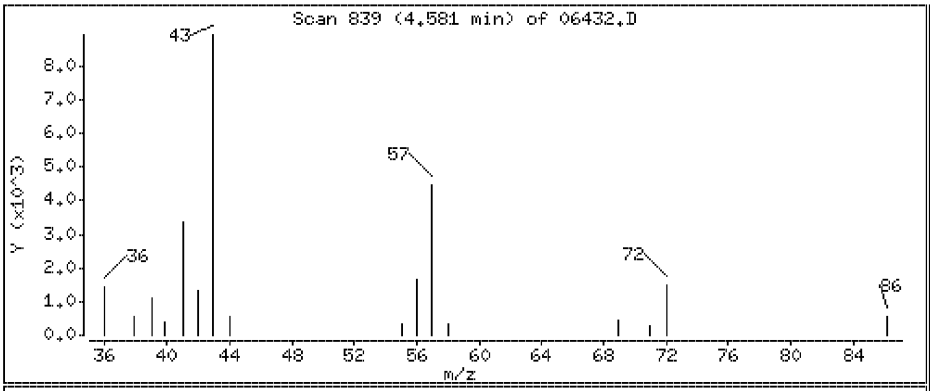
Operator: NCK

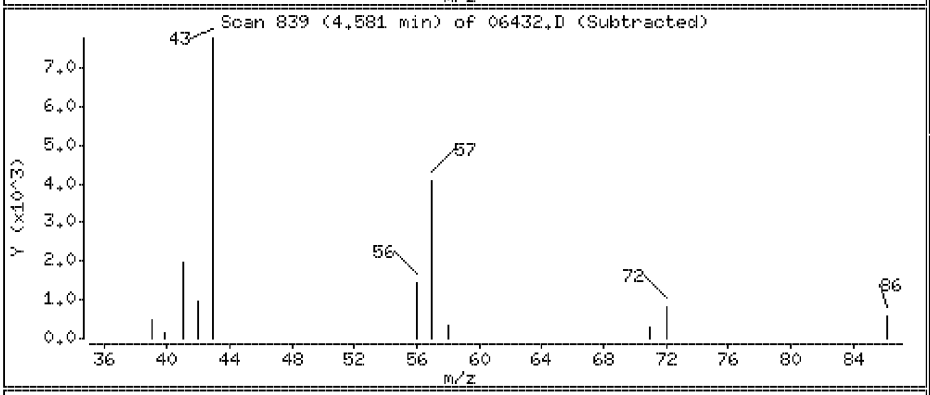
Column phase: J&W DB-5

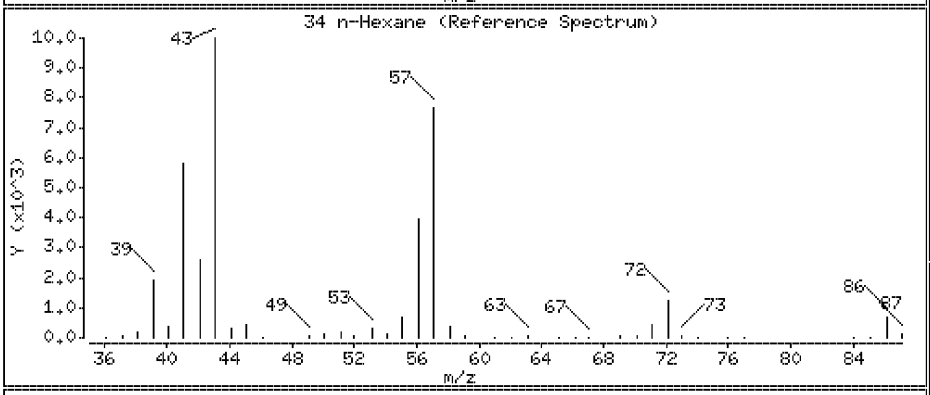
Column diameter: 0.32

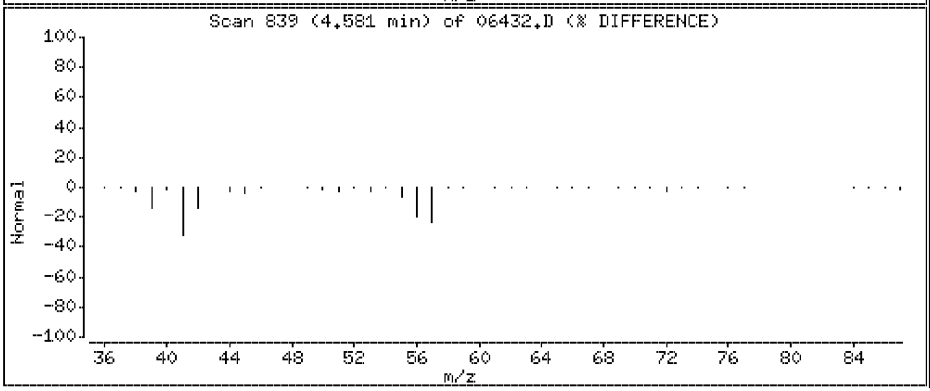
34 n-Hexane

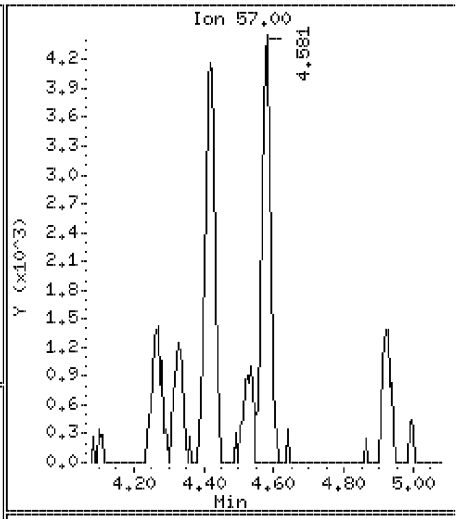
Concentration: 0.612 ppbv

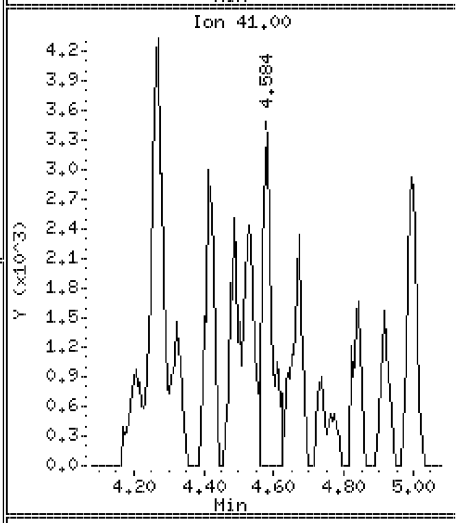


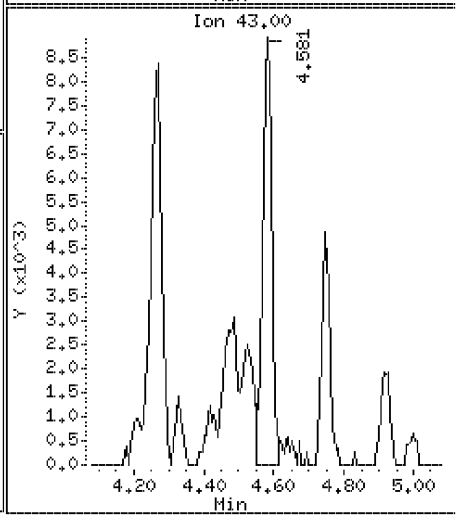












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

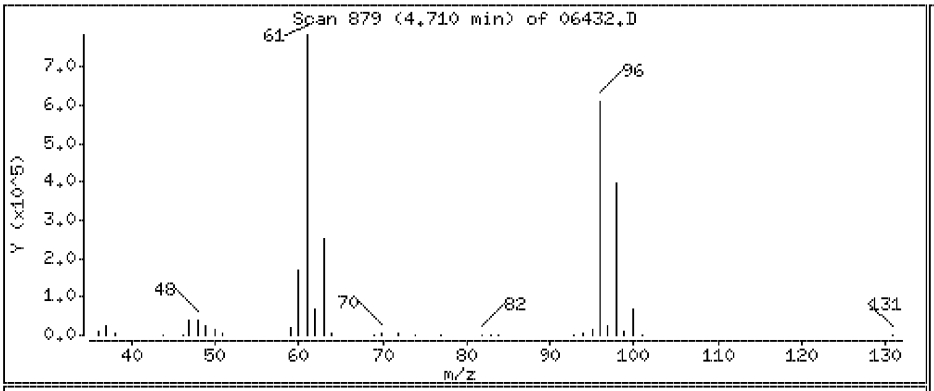
Operator: NCK

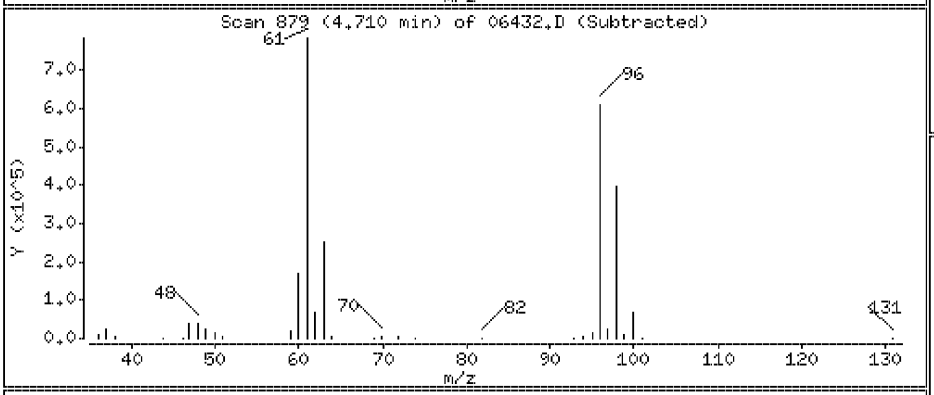
Column phase: J&W DB-5

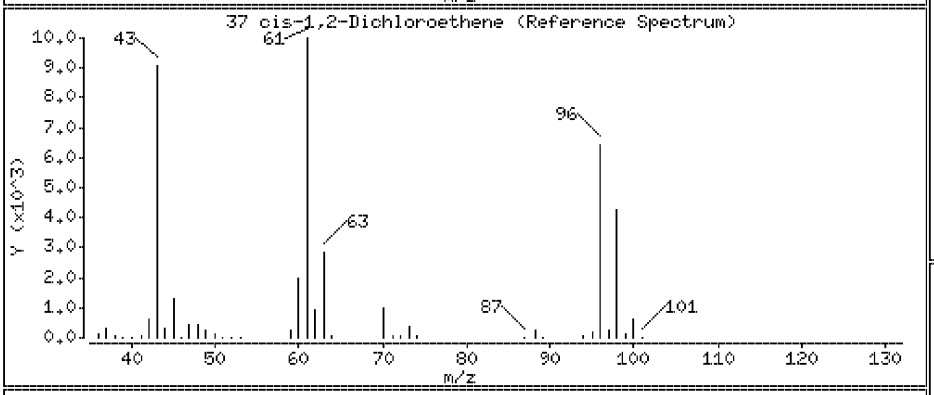
Column diameter: 0.32

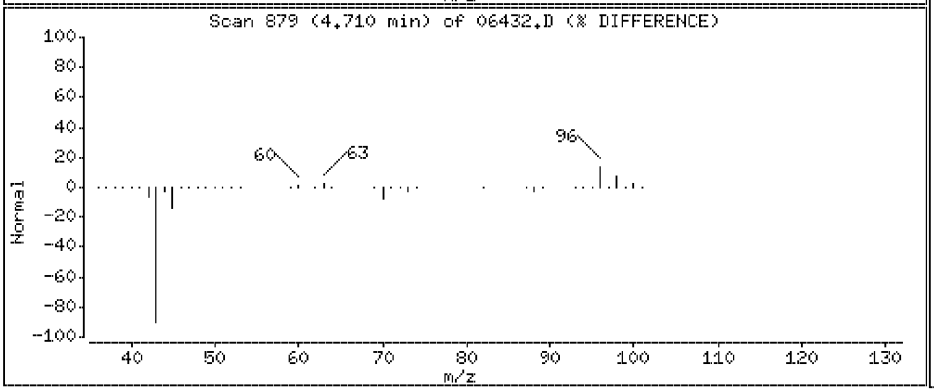
37 cis-1,2-Dichloroethene

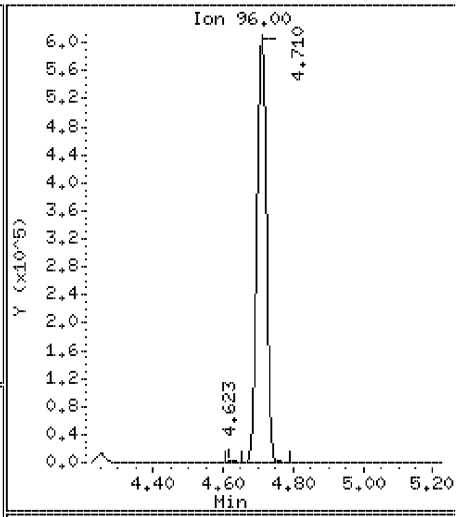
Concentration: 143 ppbv

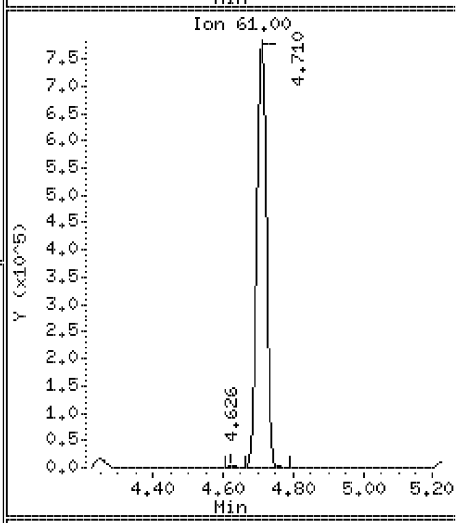


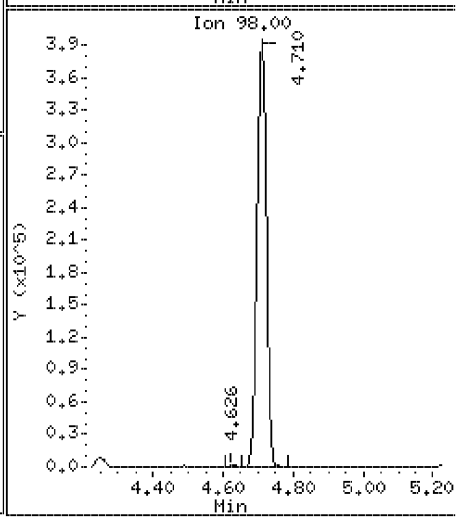












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

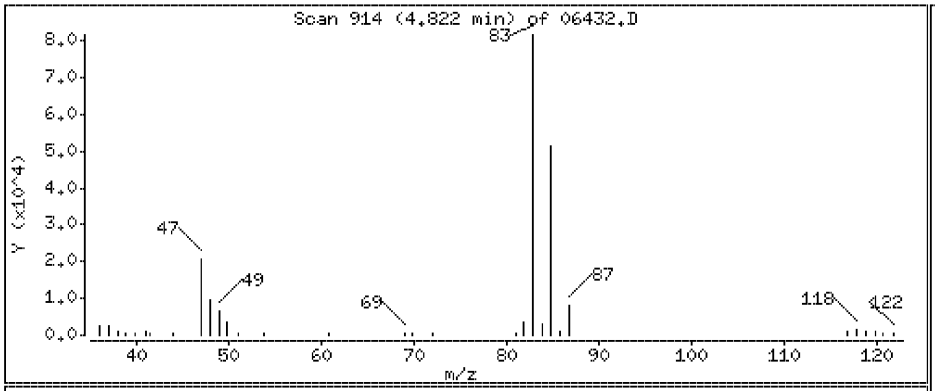
Operator: NCK

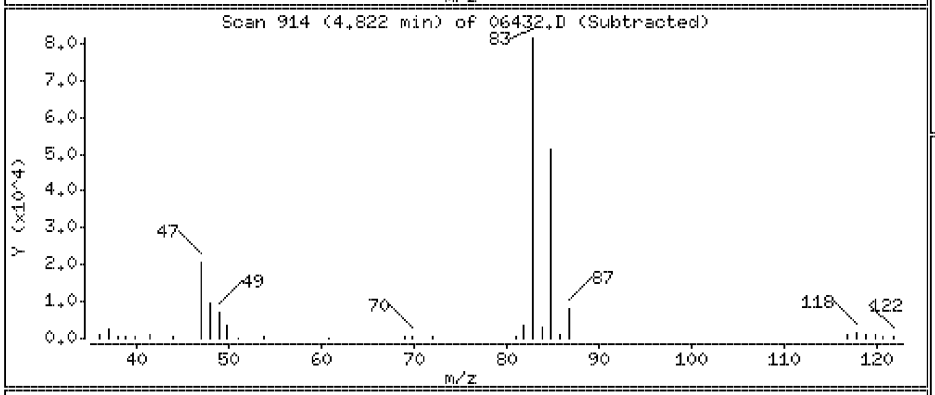
Column phase: J&W DB-5

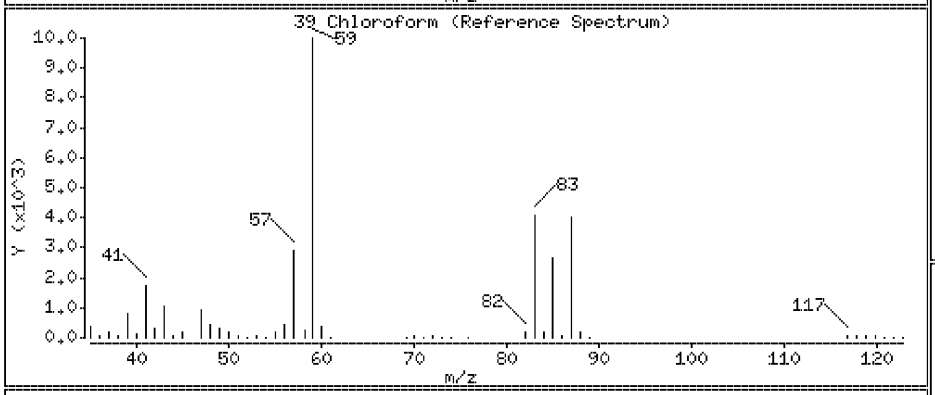
Column diameter: 0.32

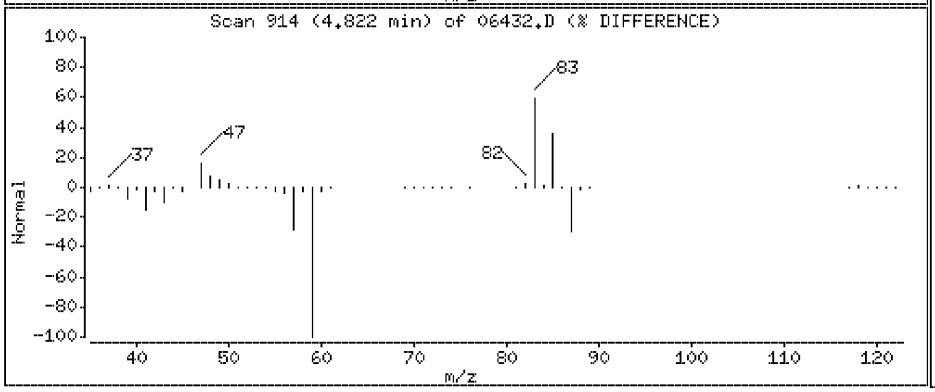
39 Chloroform

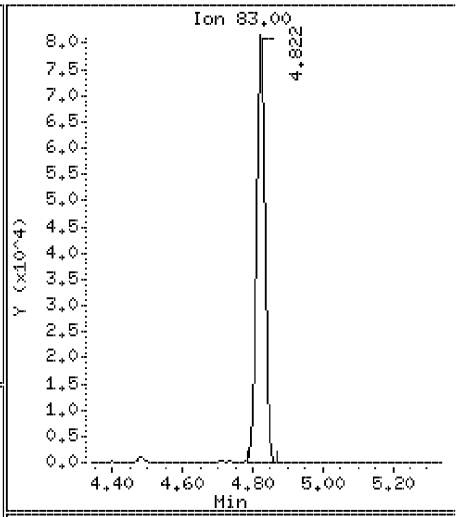
Concentration: 8.10 ppbv

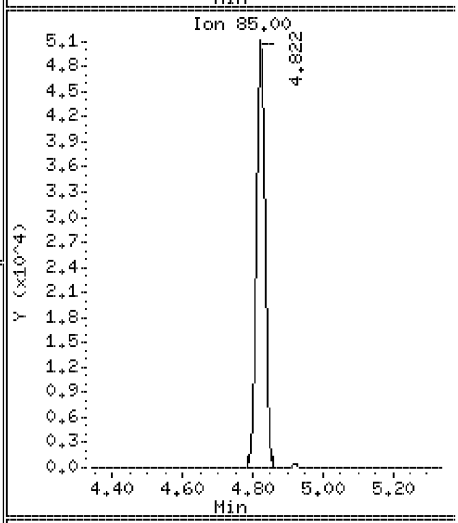


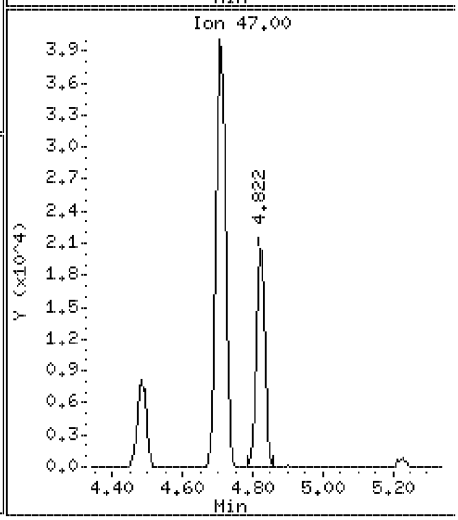












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

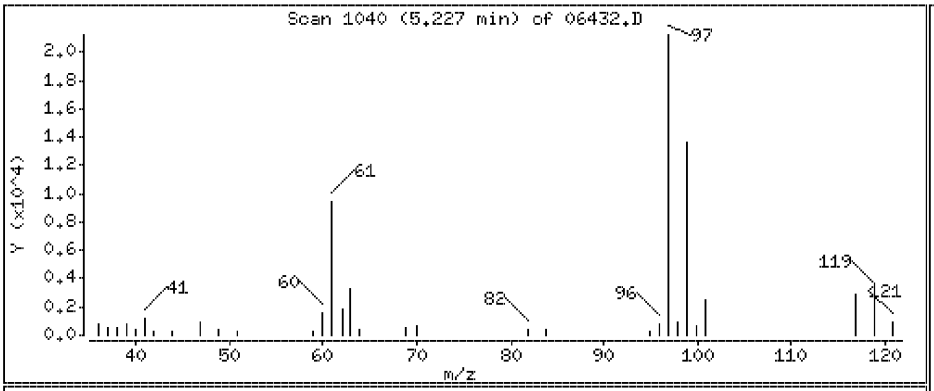
Operator: NCK

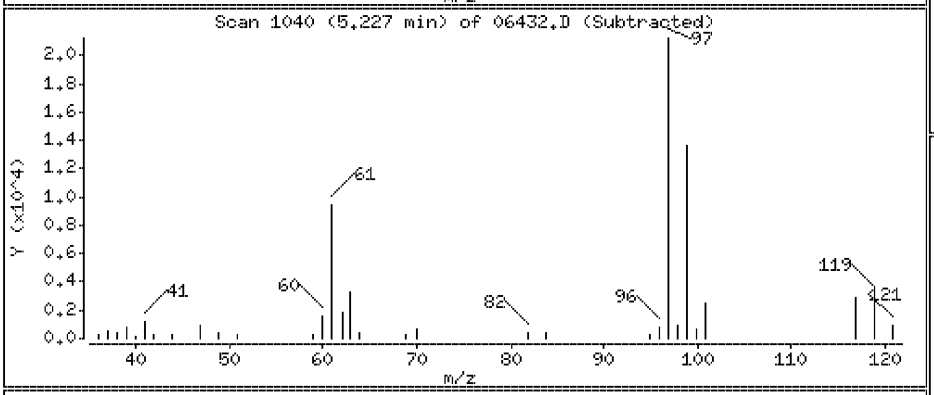
Column phase: J&W DB-5

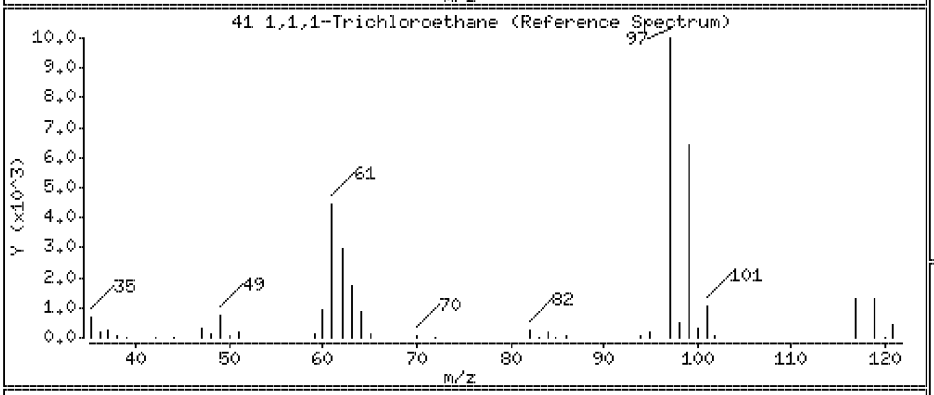
Column diameter: 0.32

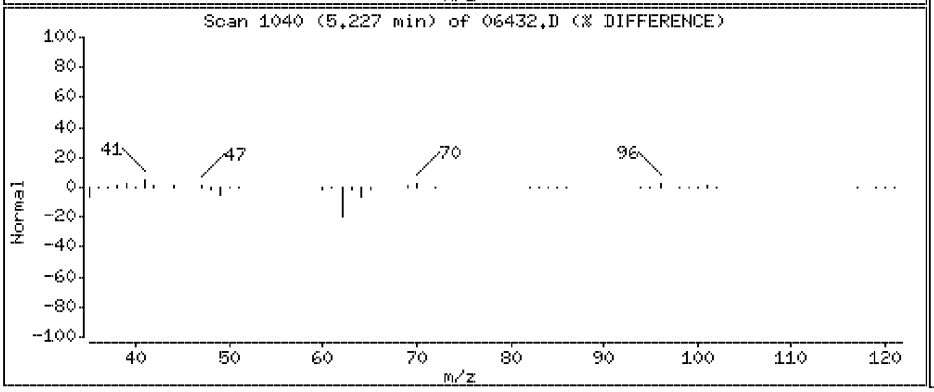
41 1,1,1-Trichloroethane

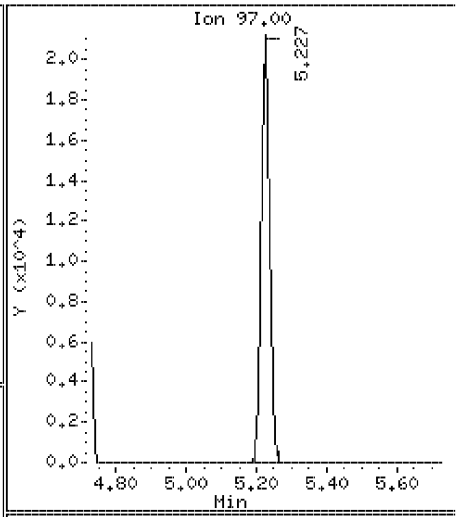
Concentration: 1.76 ppbv

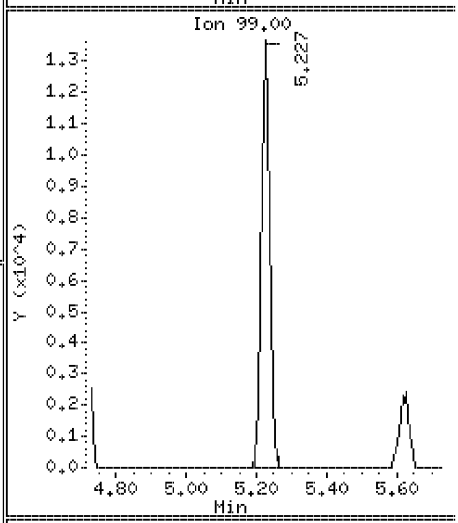


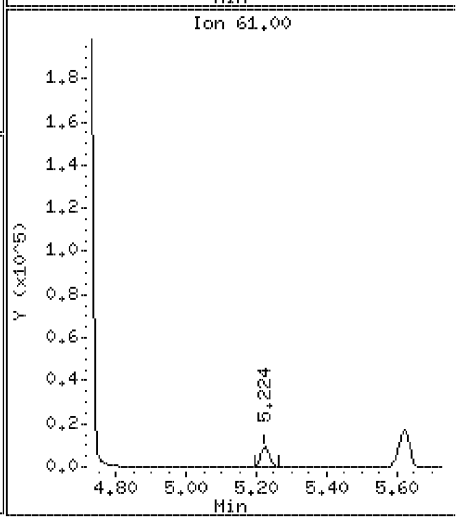












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

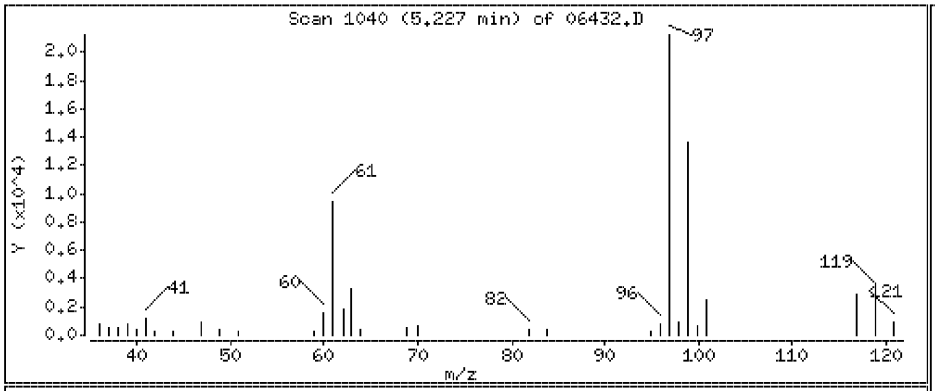
Operator: NCK

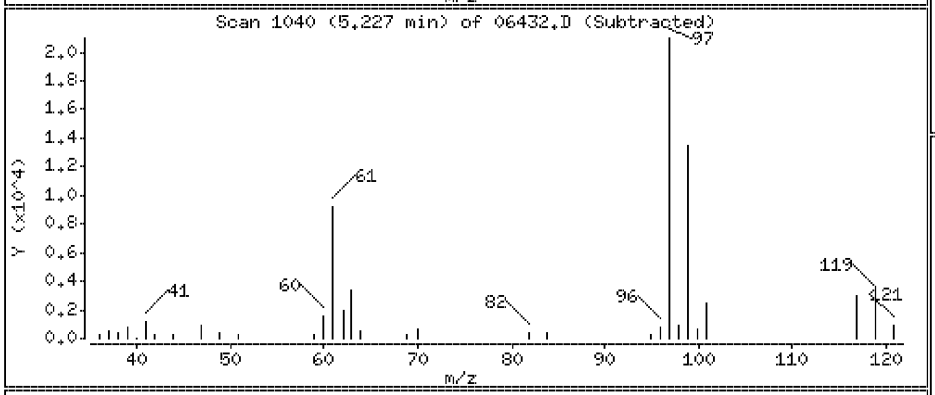
Column phase: J&W DB-5

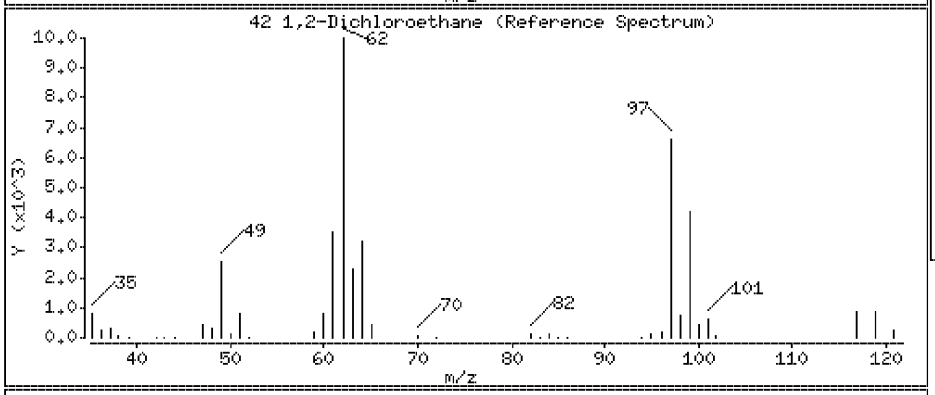
Column diameter: 0.32

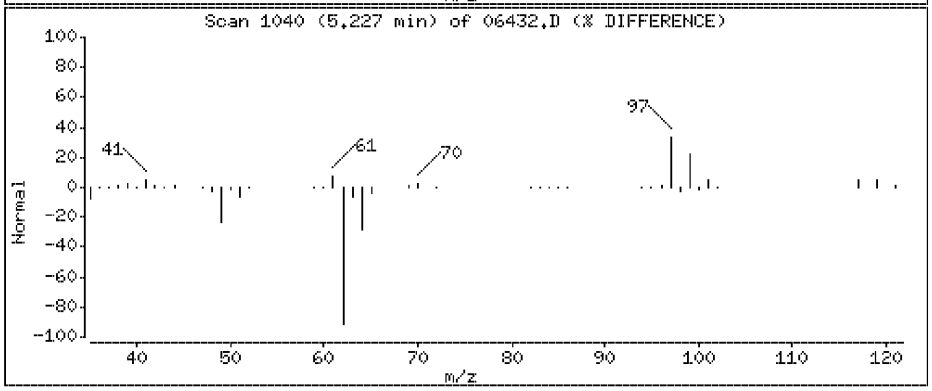
42 1,2-Dichloroethane

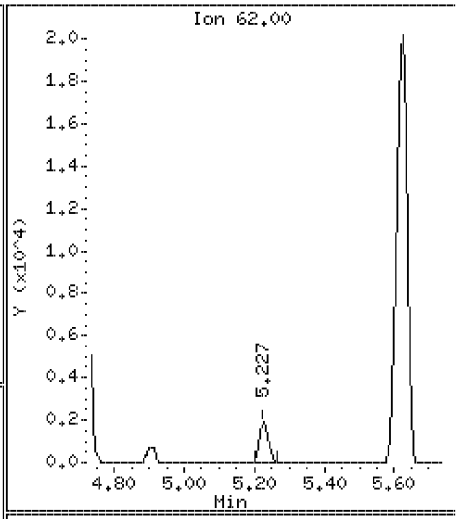
Concentration: 0.228 ppbv

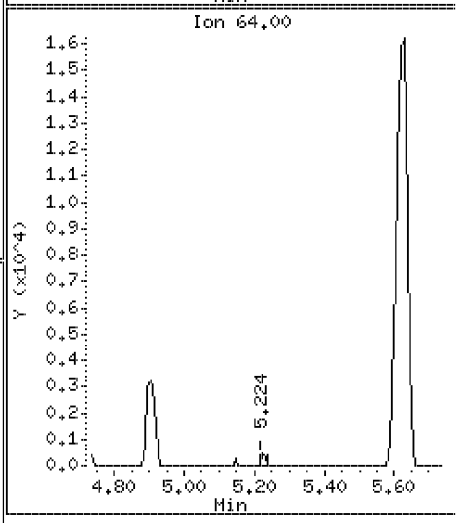












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

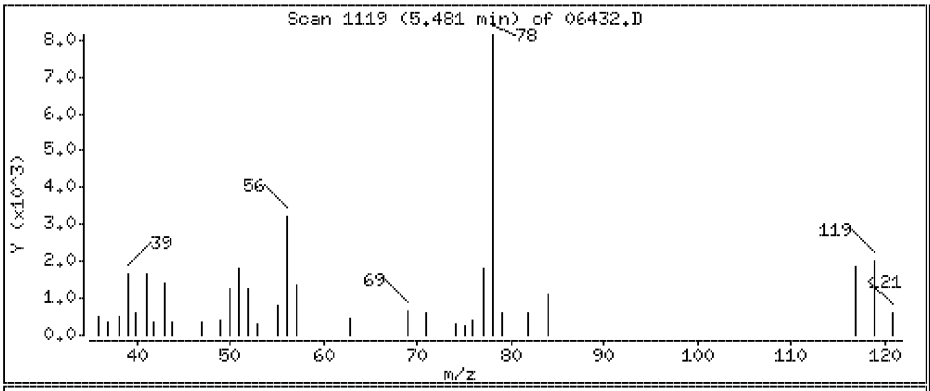
Operator: NCK

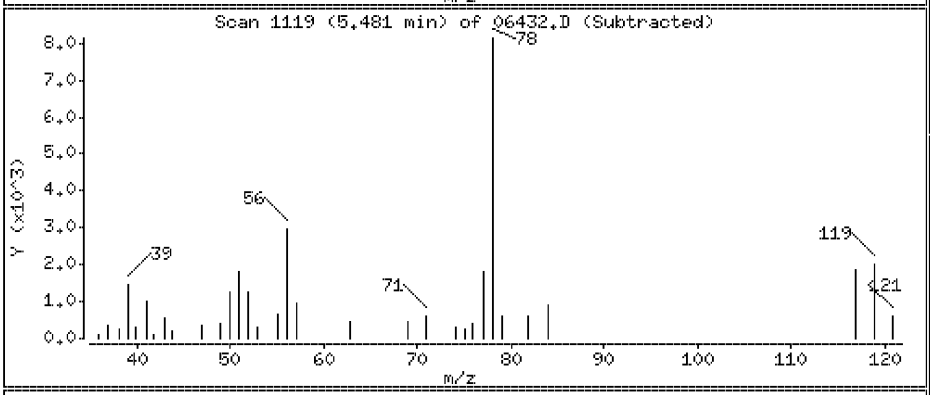
Column phase: J&W DB-5

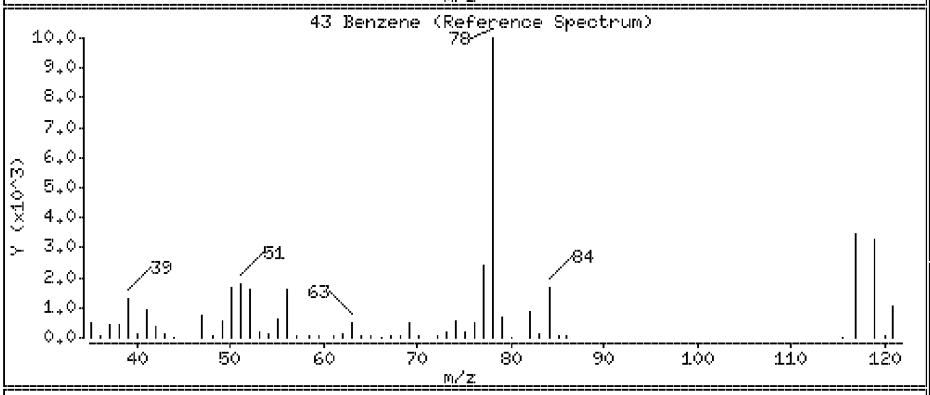
Column diameter: 0.32

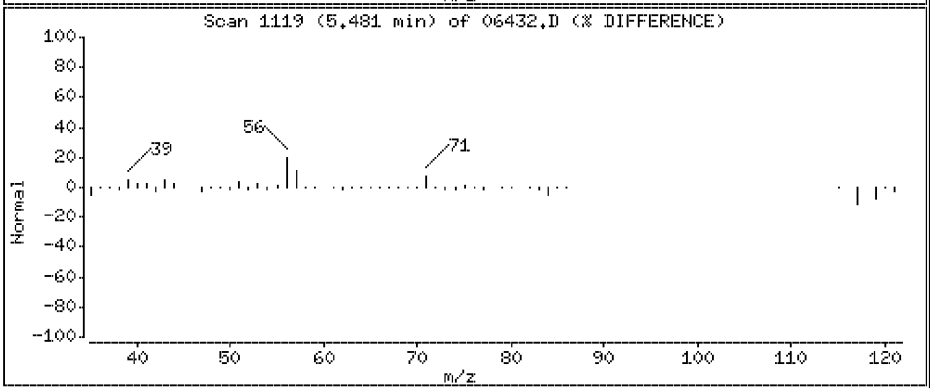
43 Benzene

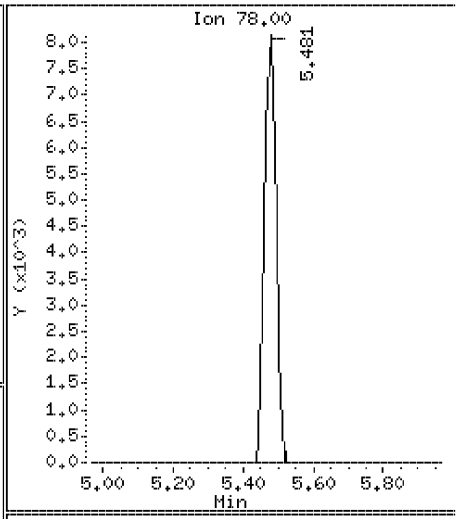
Concentration: 0.756 ppbv

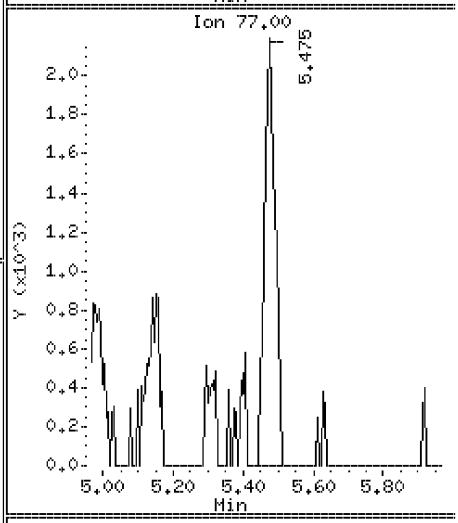


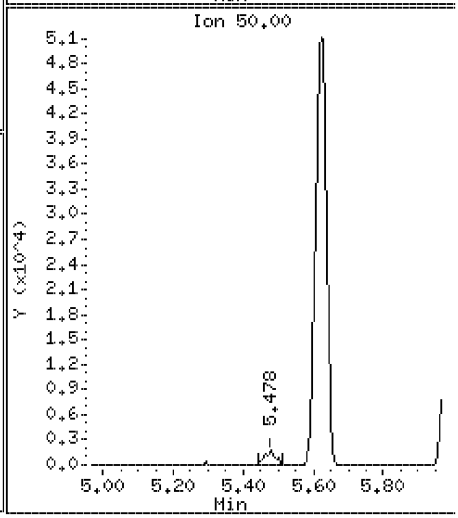












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

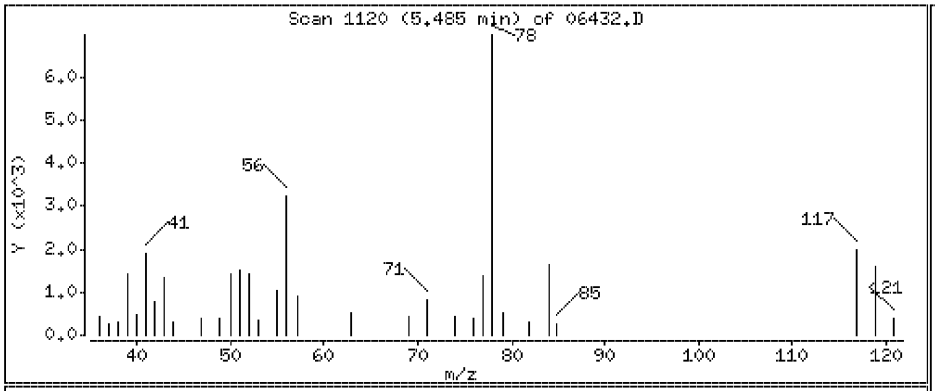
Operator: NCK

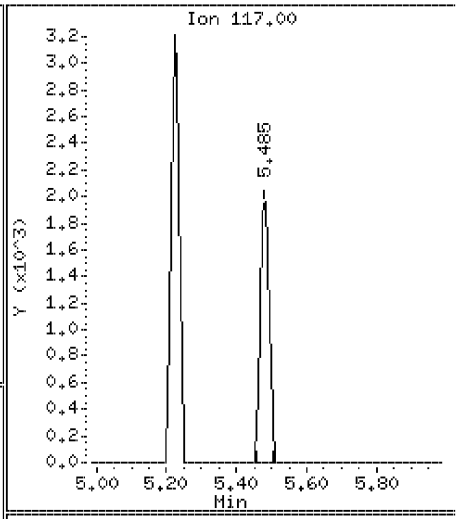
Column phase: J&W DB-5

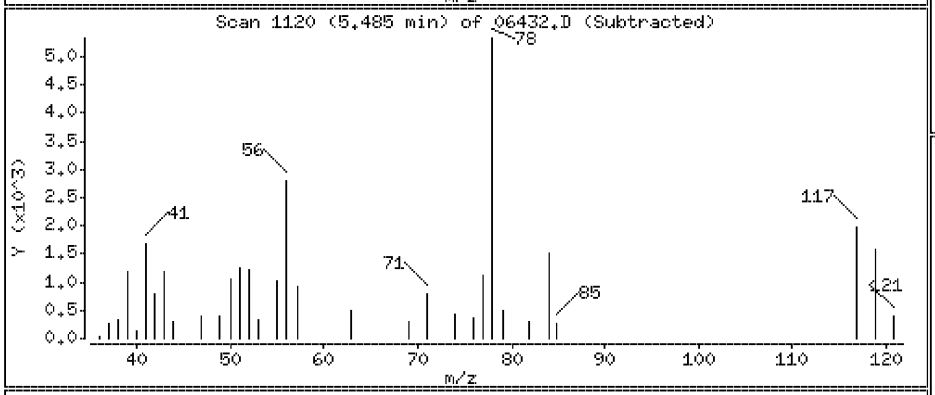
Column diameter: 0.32

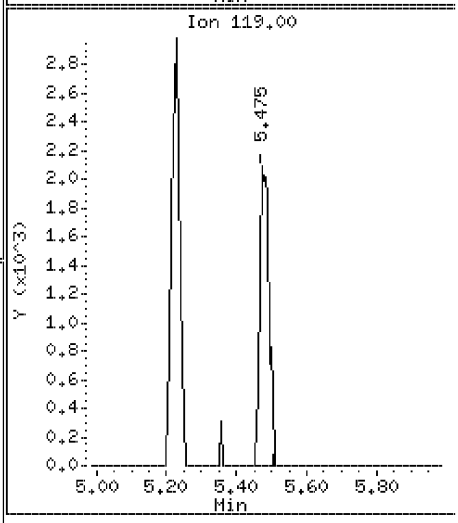
44 Carbon tetrachloride

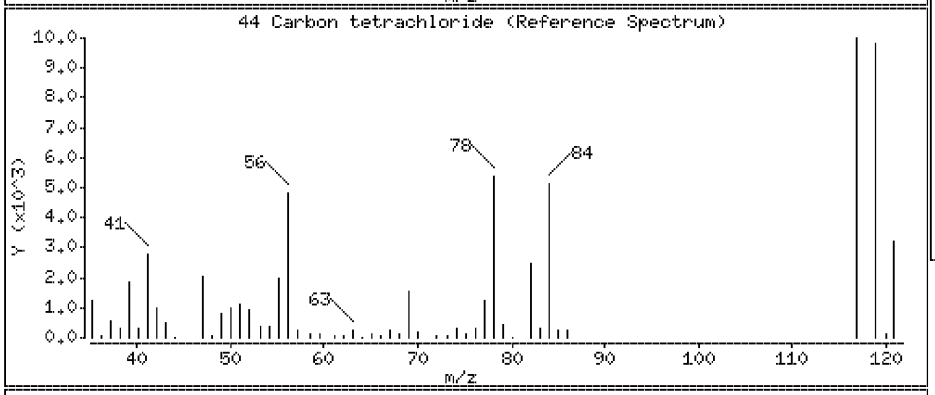
Concentration: 0.179 ppbv

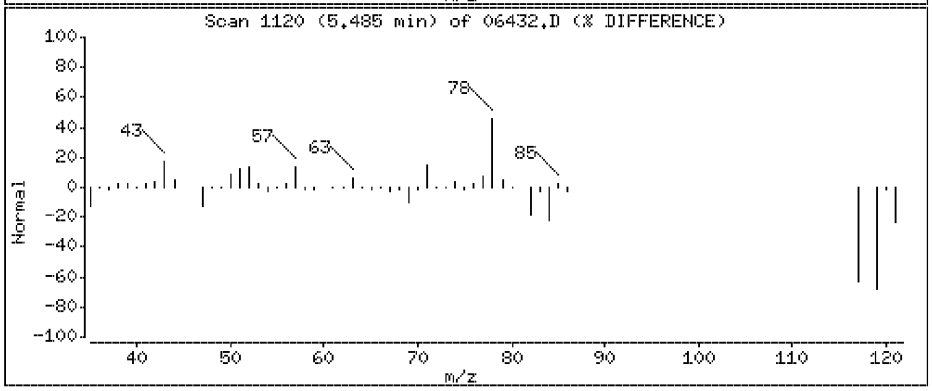












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

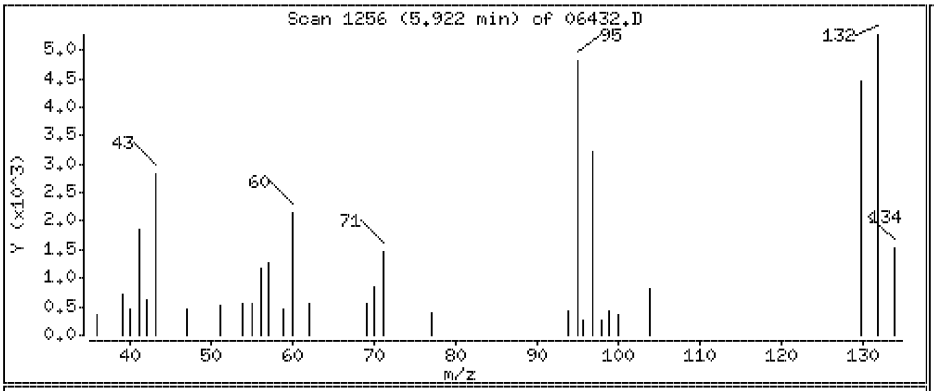
Operator: NCK

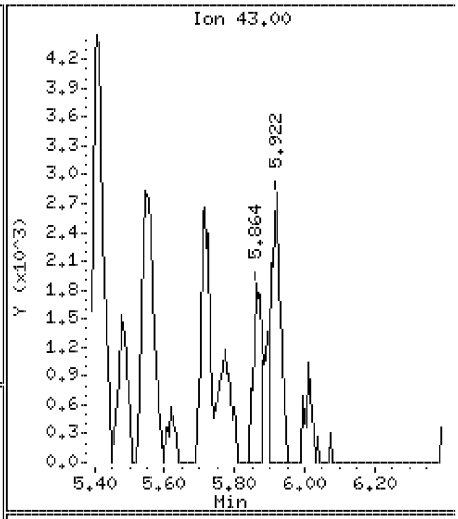
Column phase: J&W DB-5

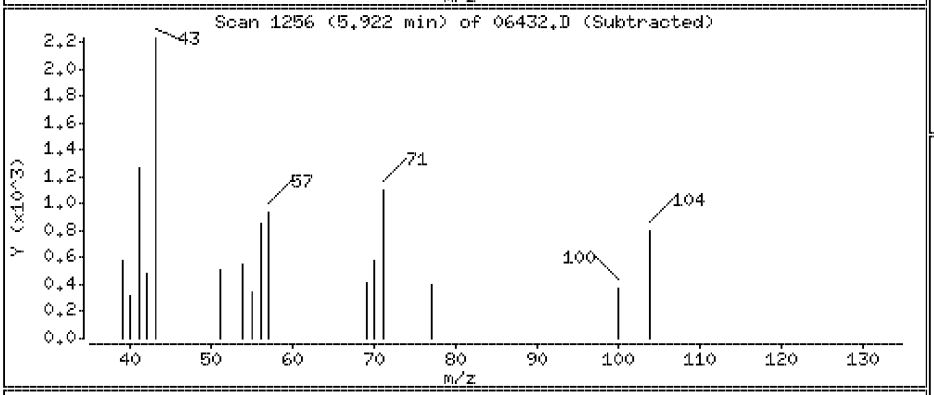
Column diameter: 0.32

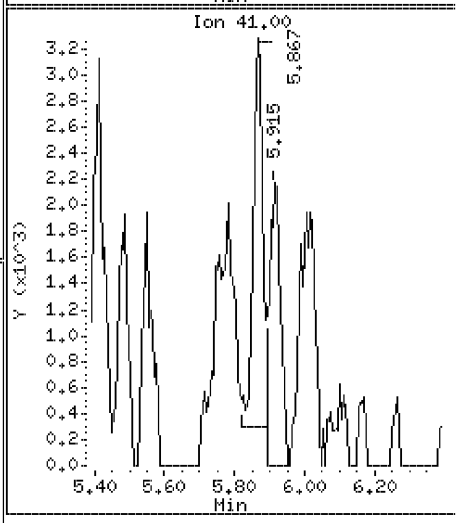
49 Heptane

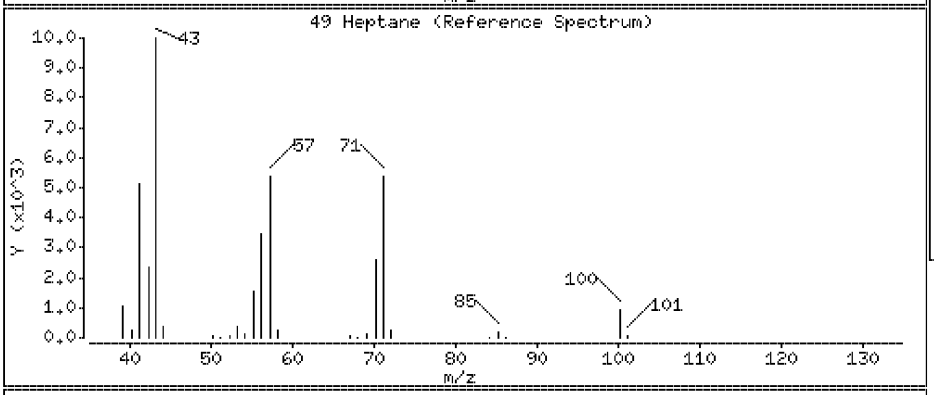
Concentration: 0.344 ppbv

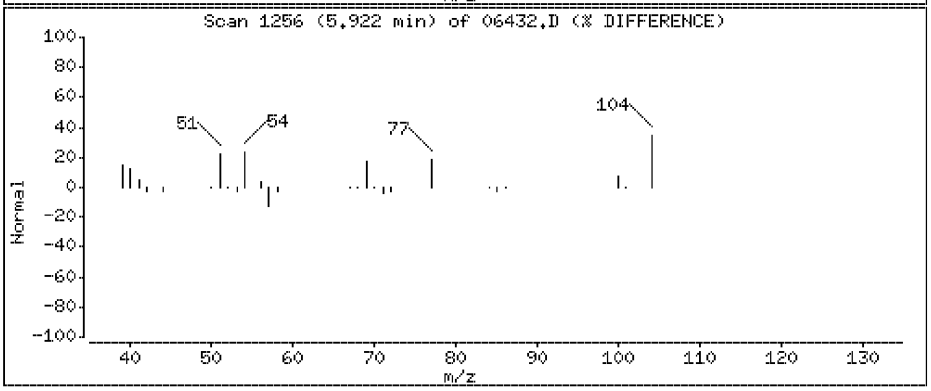












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

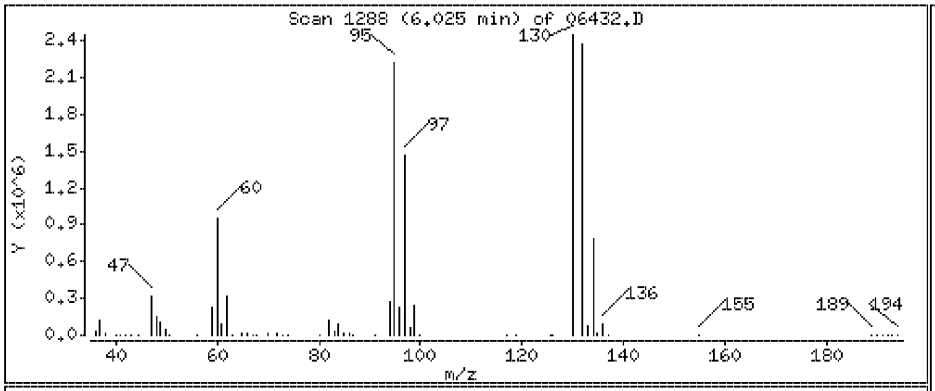
Operator: NCK

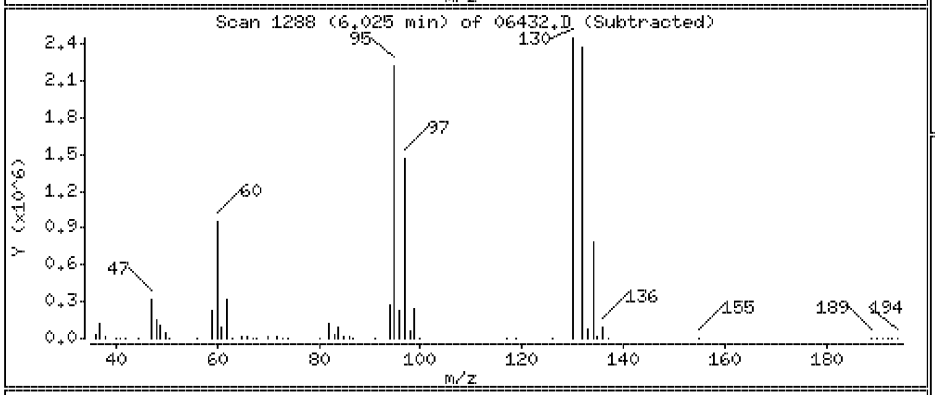
Column phase: J&W DB-5

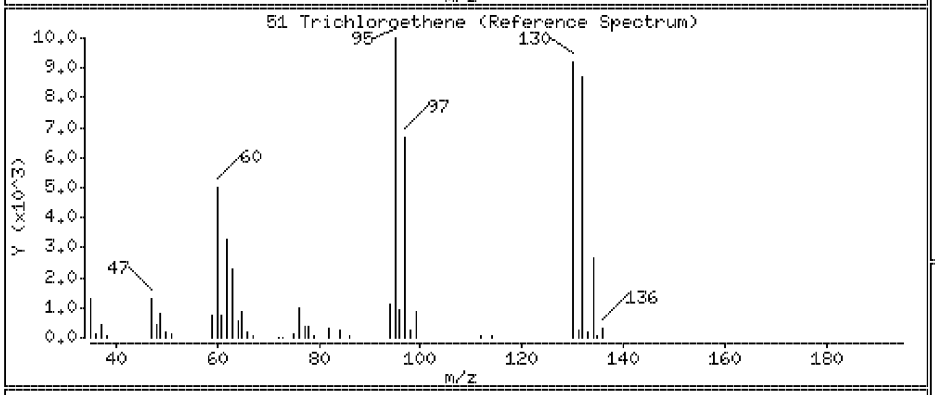
Column diameter: 0.32

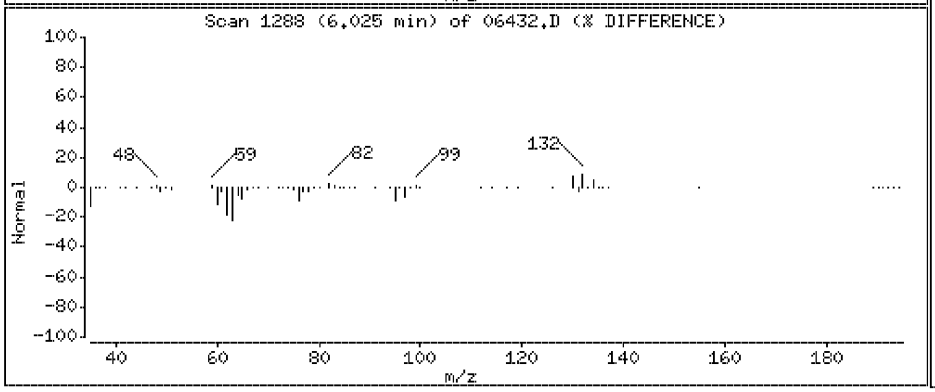
51 Trichloroethene

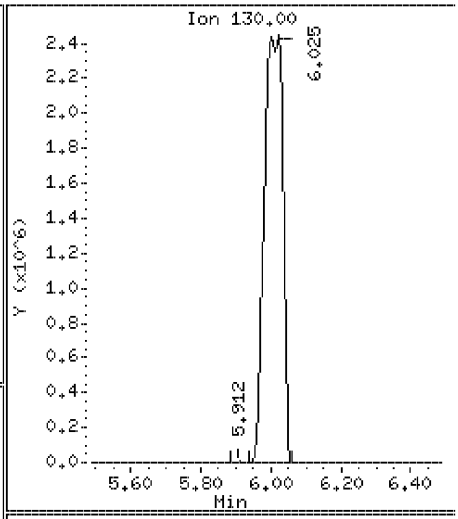
Concentration: 684 ppbv

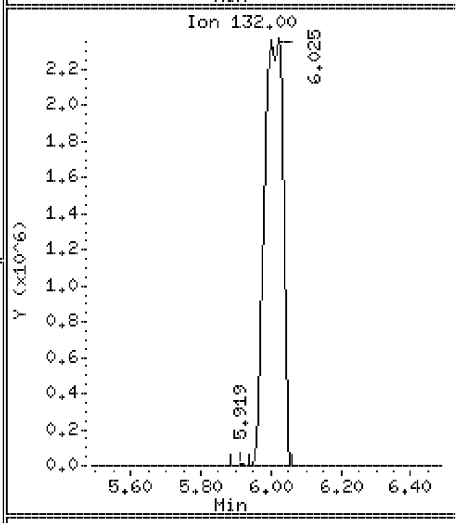


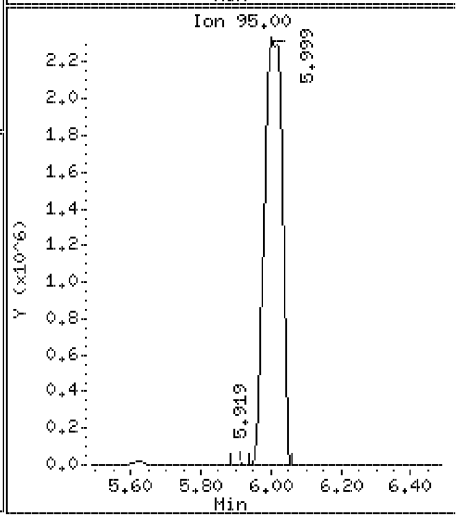












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

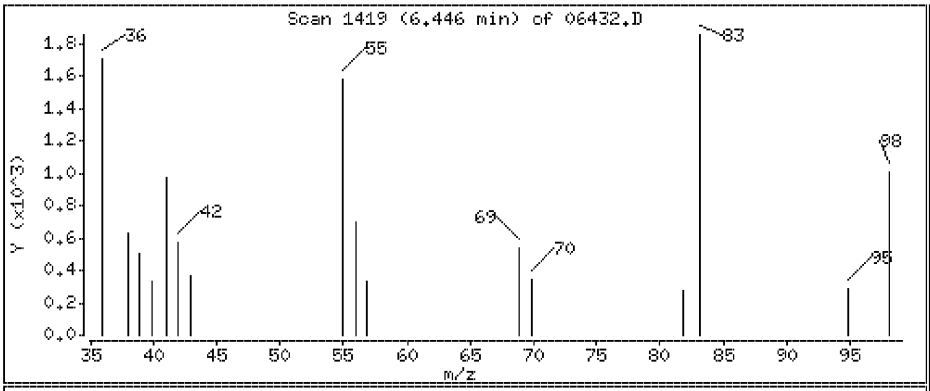
Operator: NCK

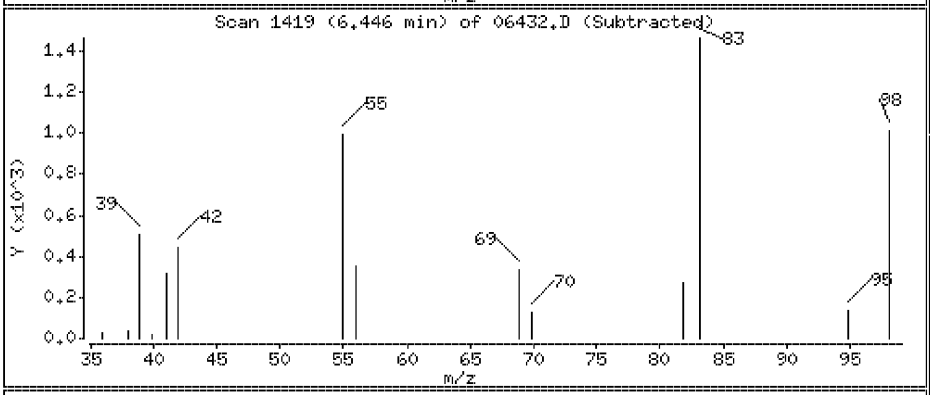
Column phase: J&W DB-5

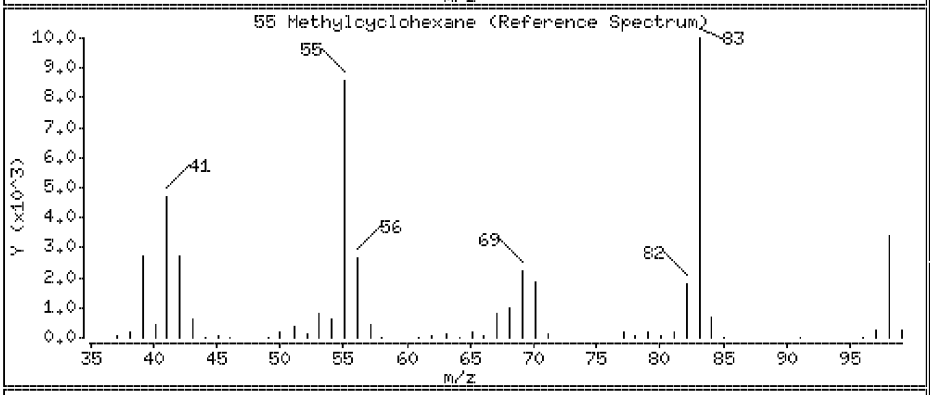
Column diameter: 0.32

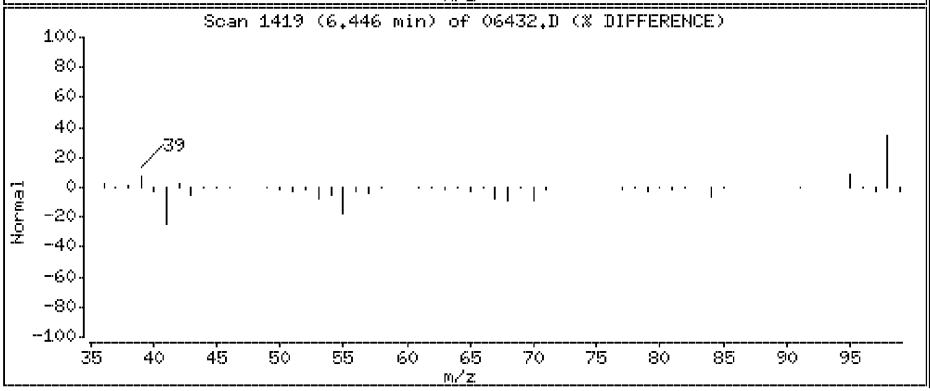
55 Methylcyclohexane

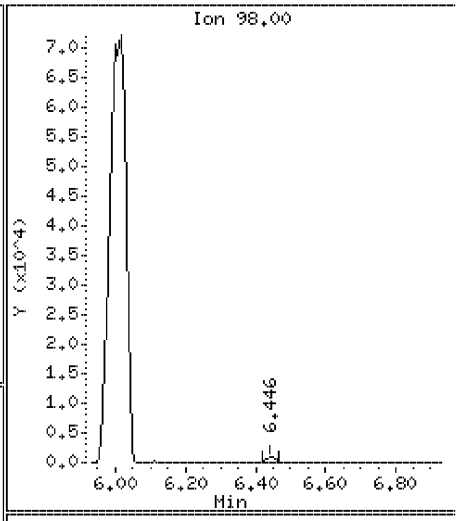
Concentration: 0.238 ppbv

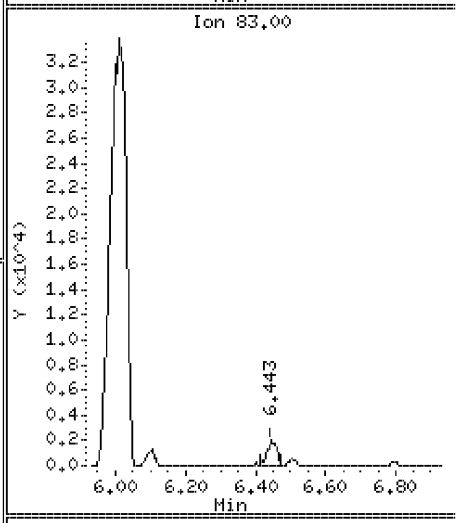


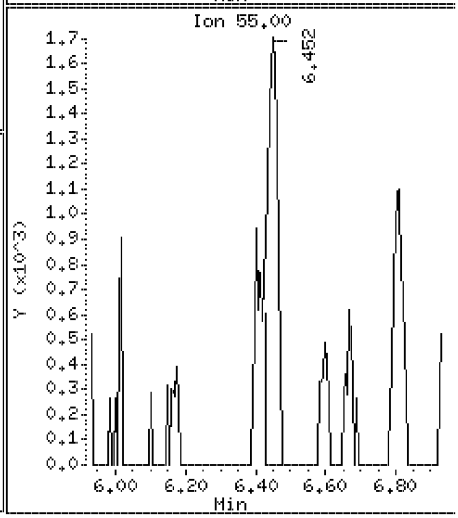












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

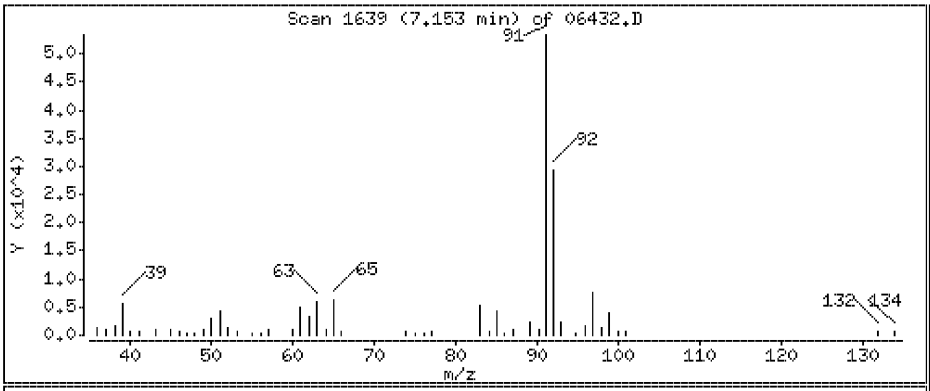
Operator: NCK

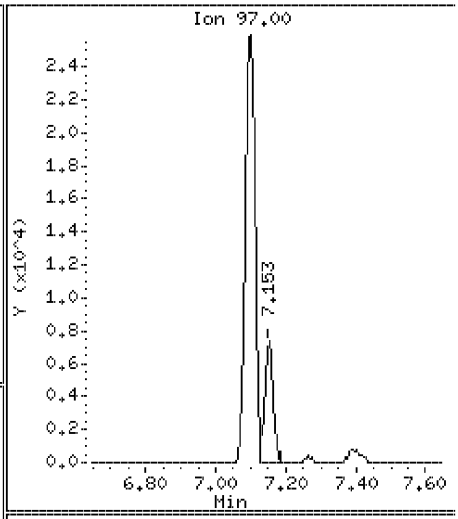
Column phase: J&W DB-5

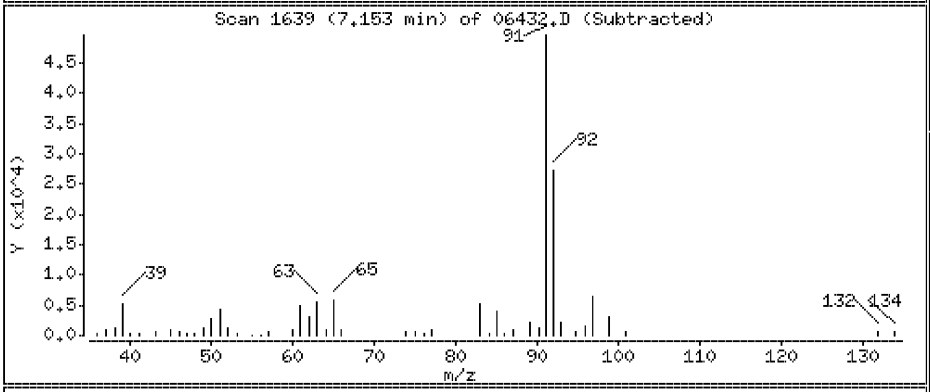
Column diameter: 0.32

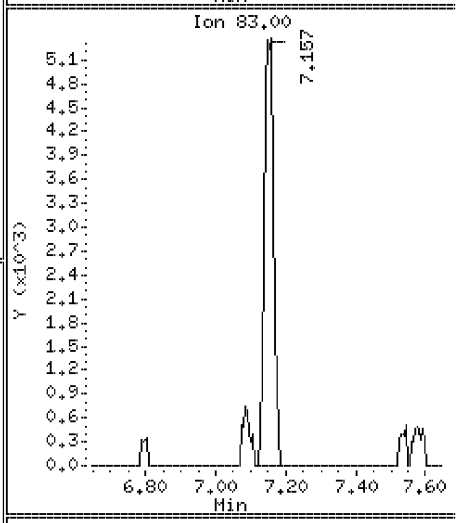
60 1,1,2-Trichloroethane

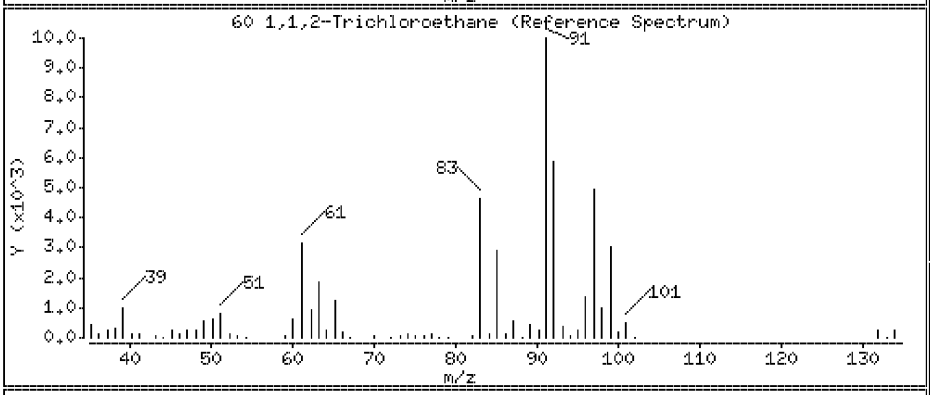
Concentration: 1.14 ppbv

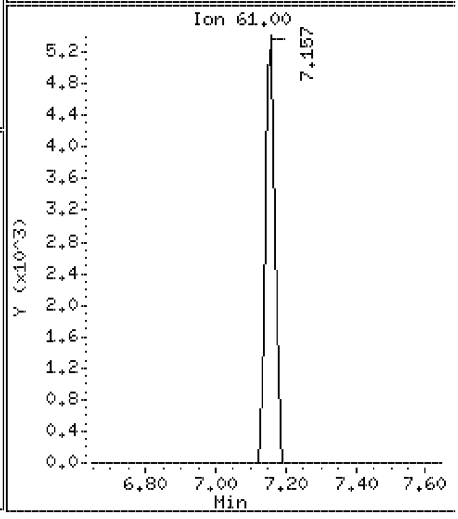


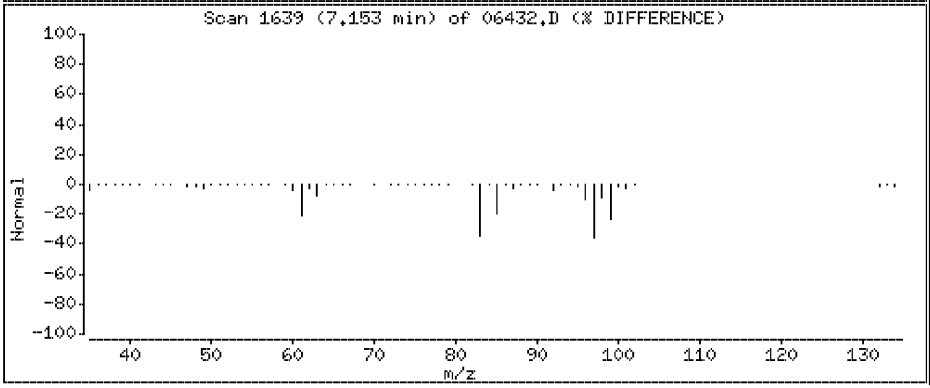












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

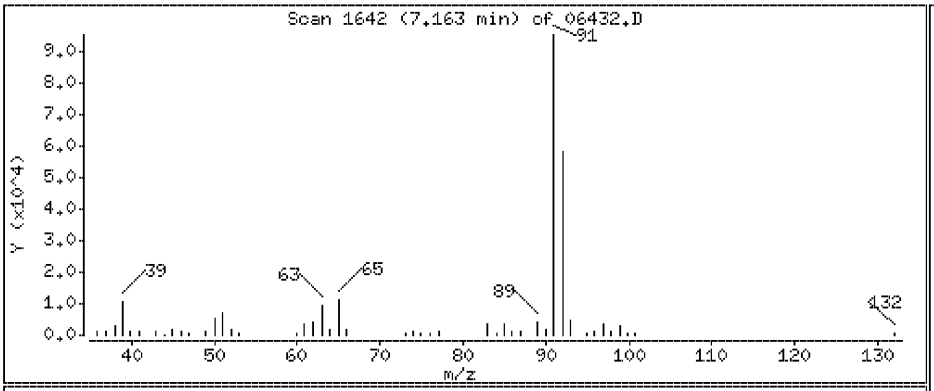
Operator: NCK

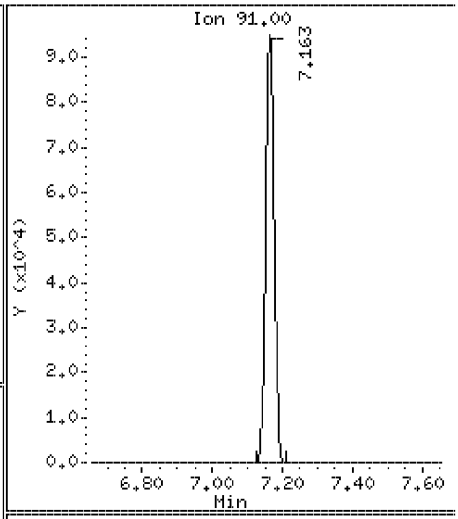
Column phase: J&W DB-5

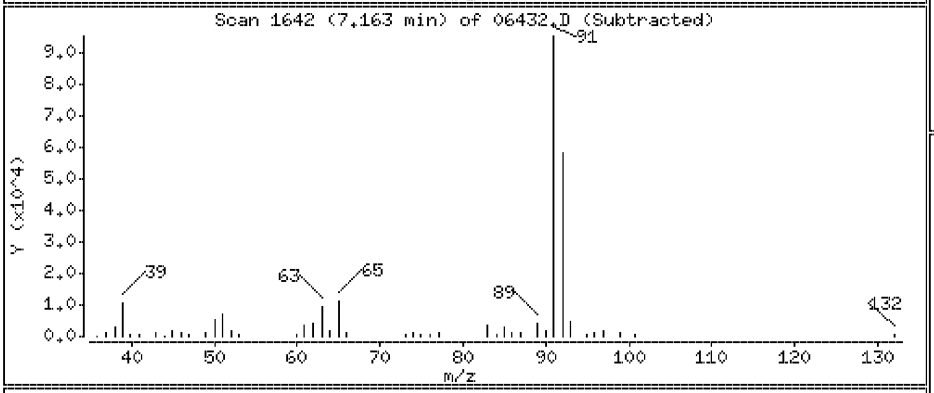
Column diameter: 0.32

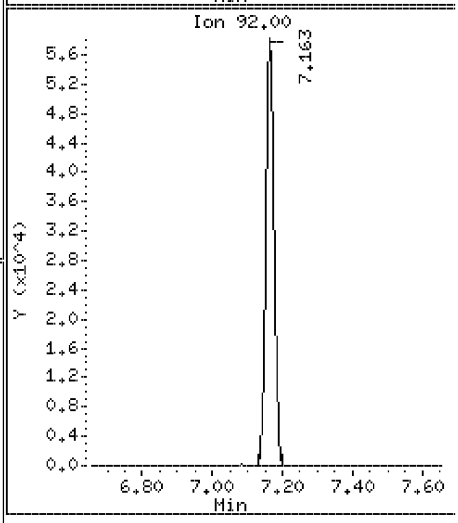
61 Toluene

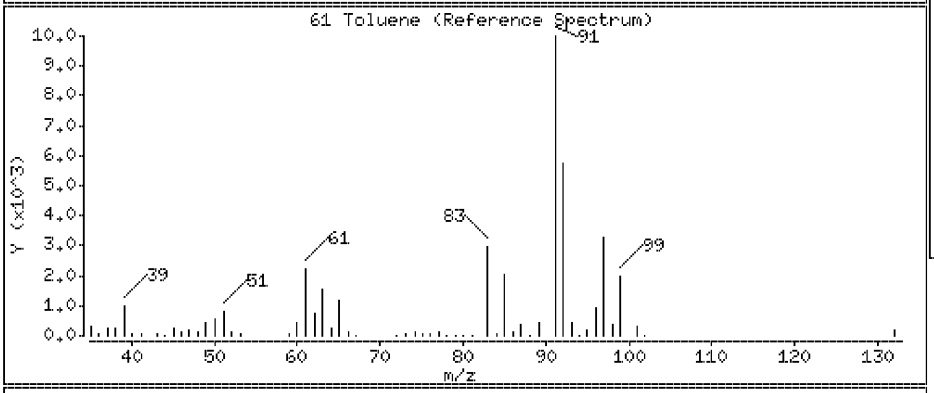
Concentration: 4.90 ppbv

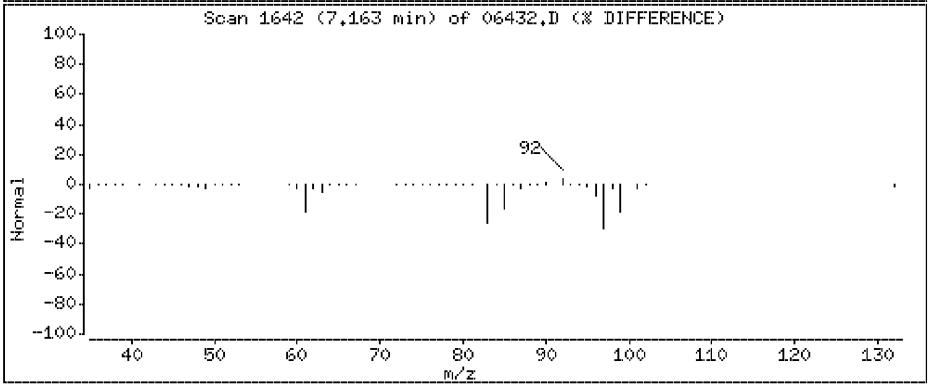












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

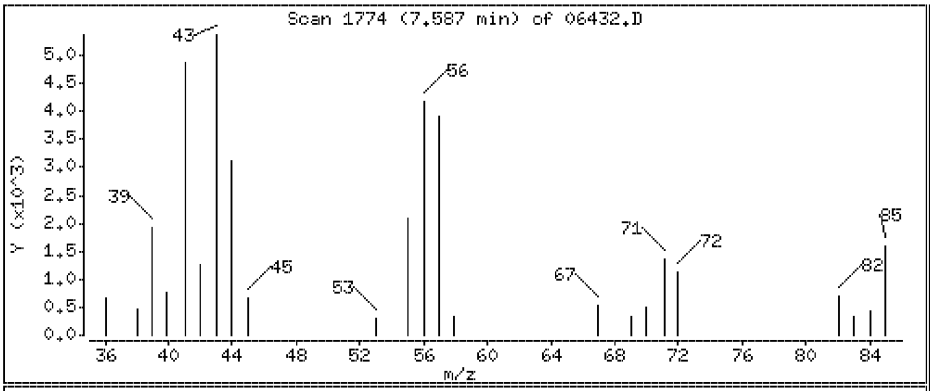
Operator: NCK

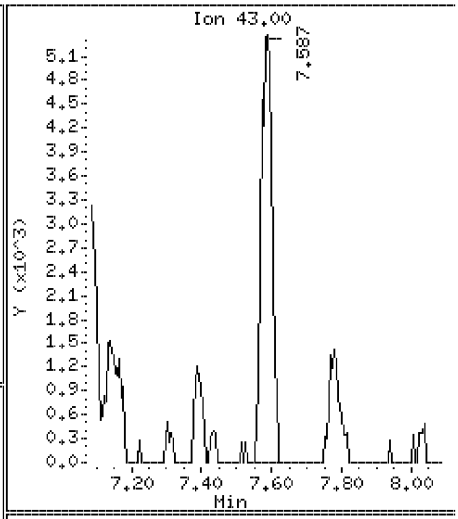
Column phase: J&W DB-5

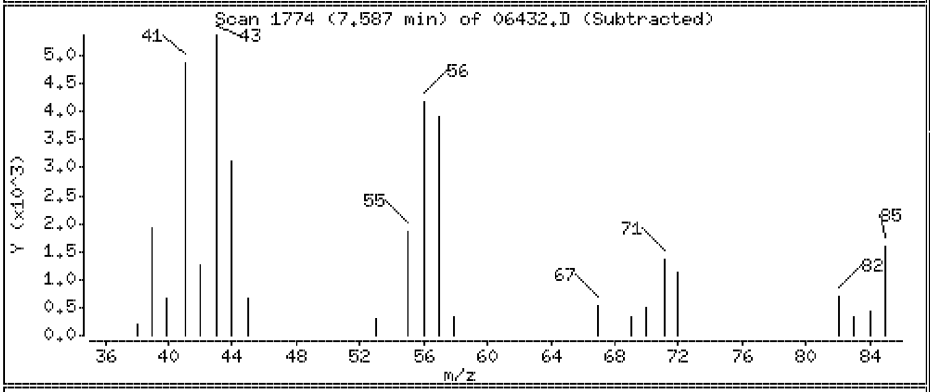
Column diameter: 0.32

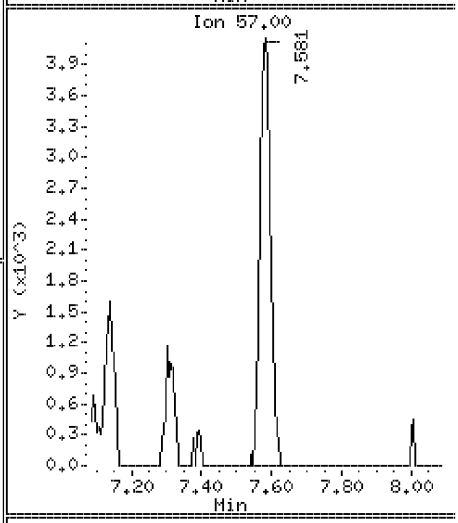
63 n-Octane

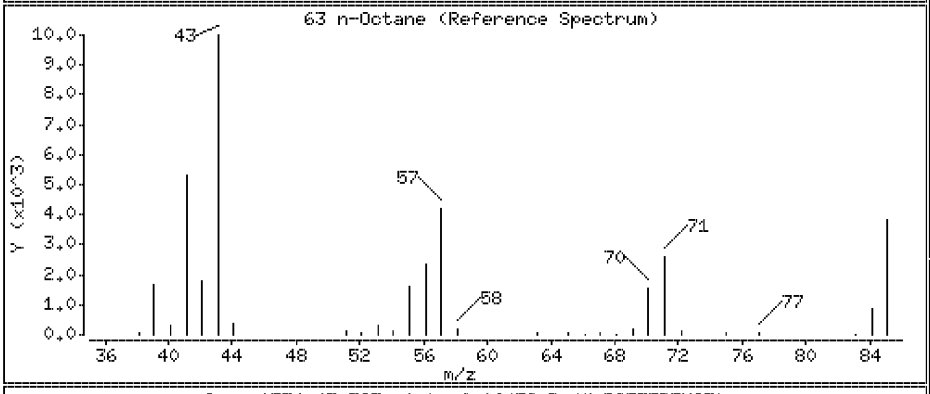
Concentration: 0.675 ppbv

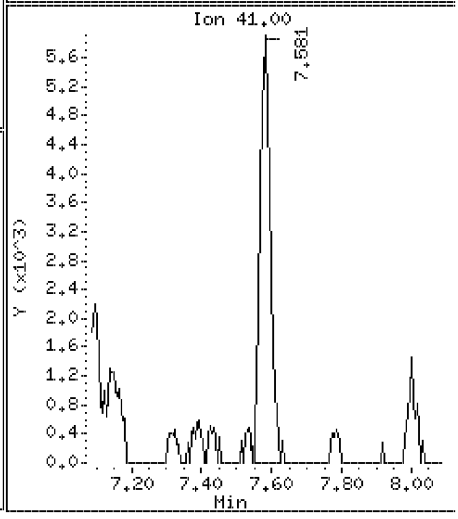


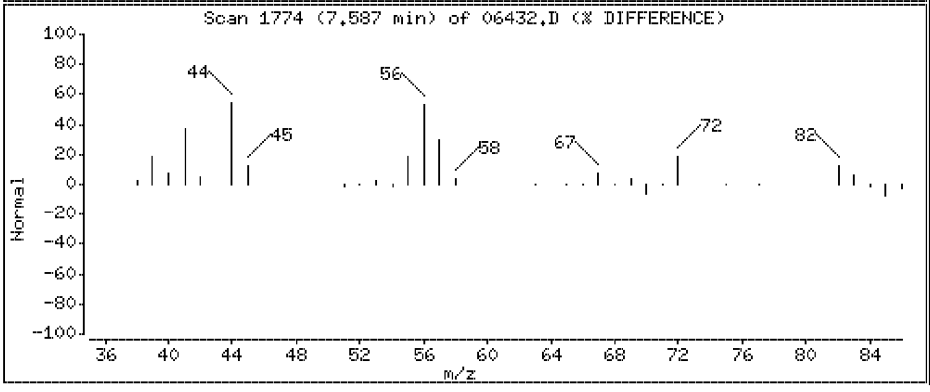












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

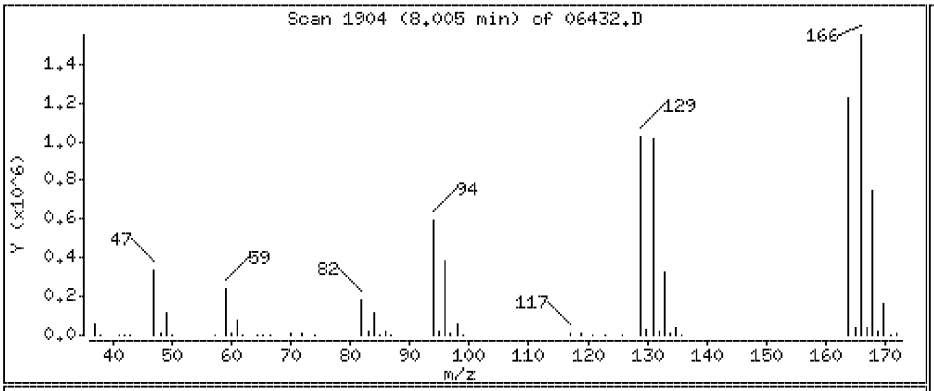
Operator: NCK

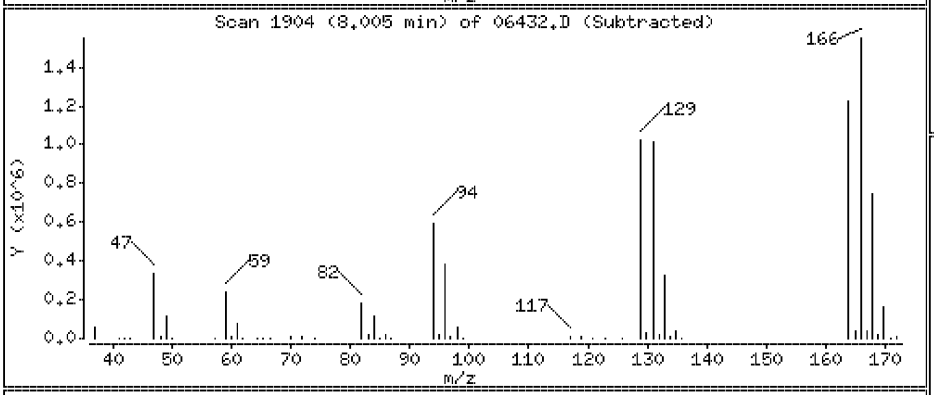
Column phase: J&W DB-5

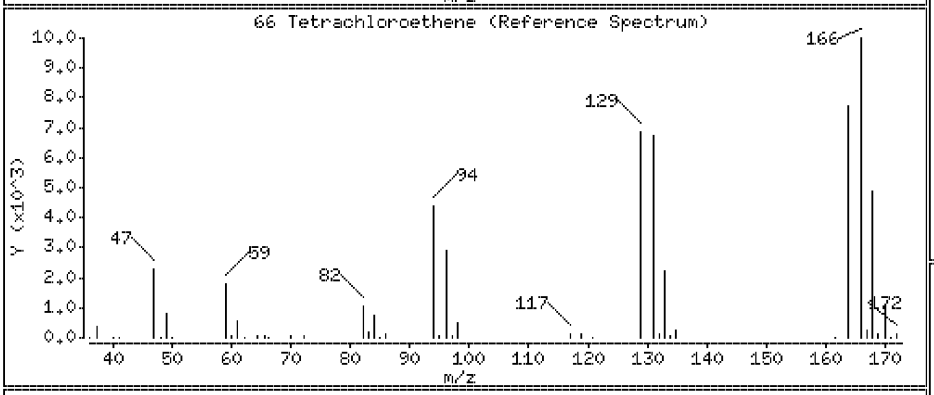
Column diameter: 0.32

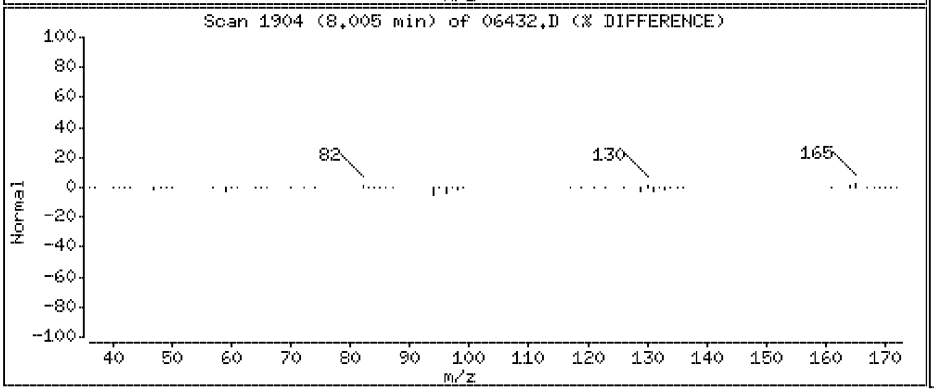
66 Tetrachloroethene

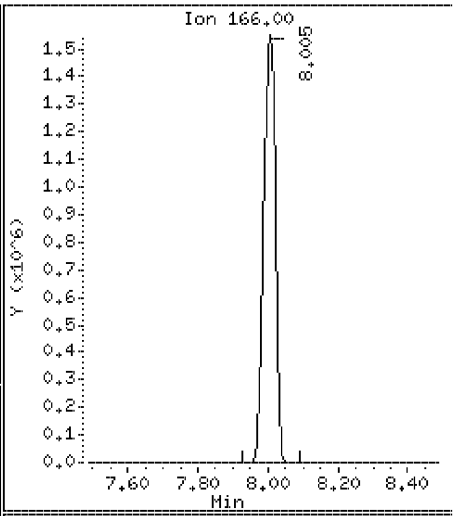
Concentration: 207 ppbv

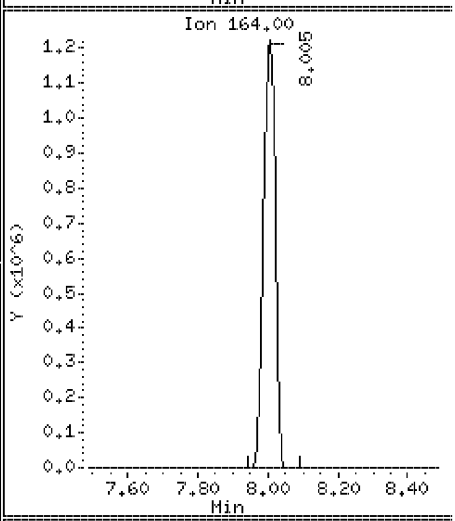


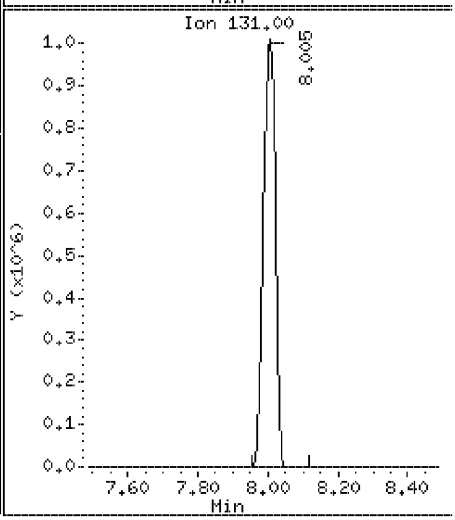












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

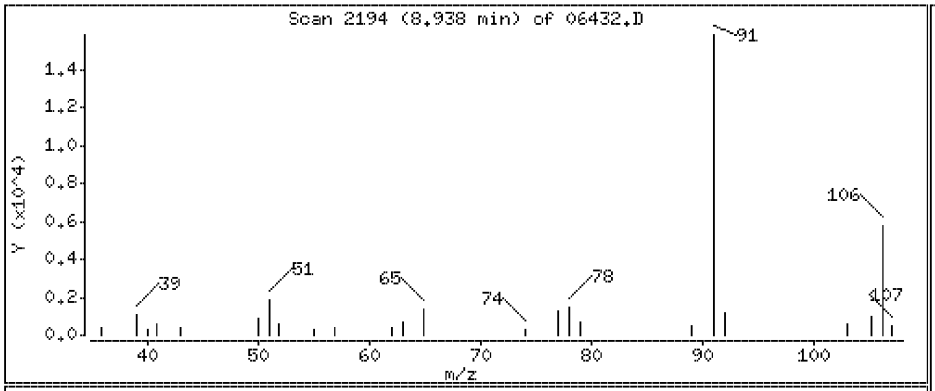
Operator: NCK

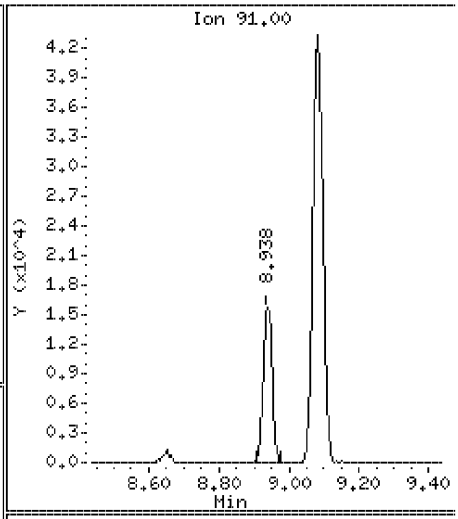
Column phase: J&W DB-5

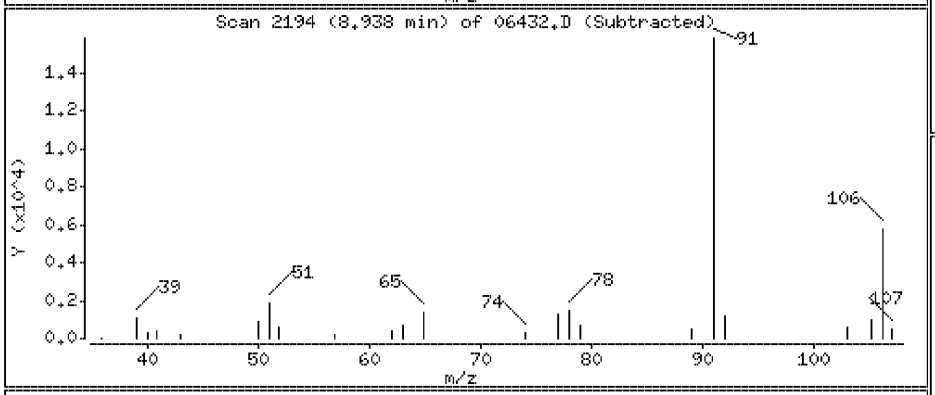
Column diameter: 0.32

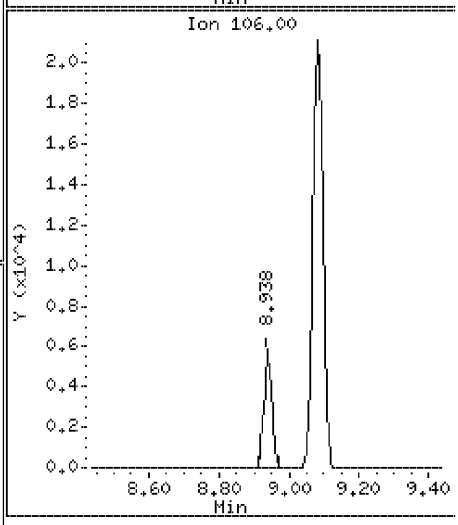
69 Ethyl Benzene

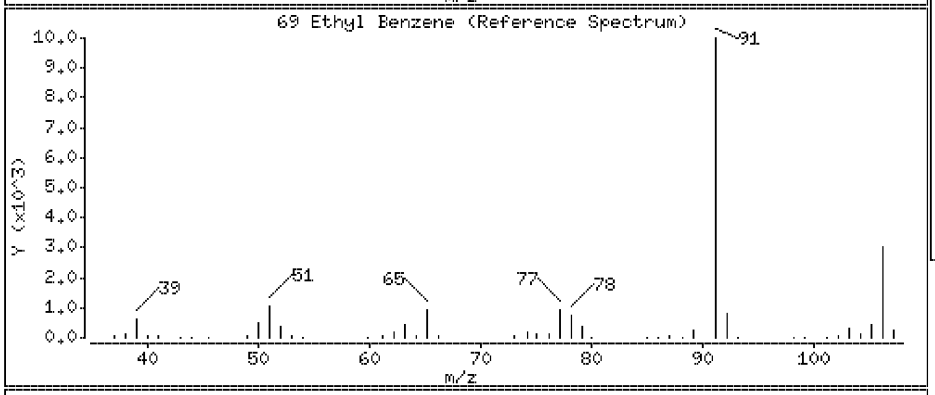
Concentration: 0.746 ppbv

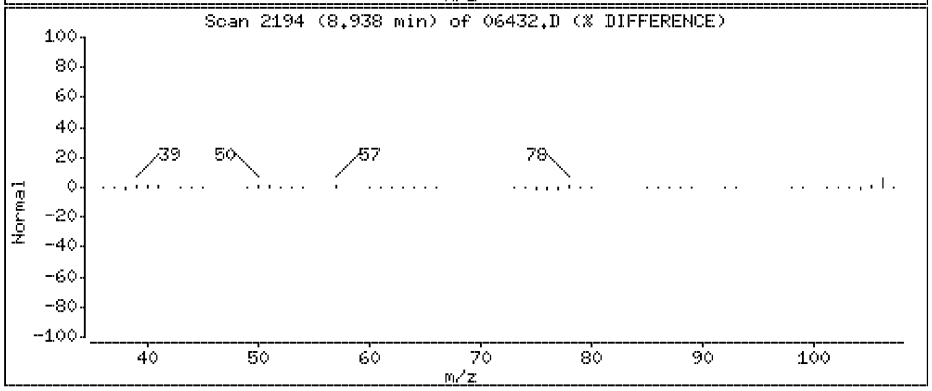












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

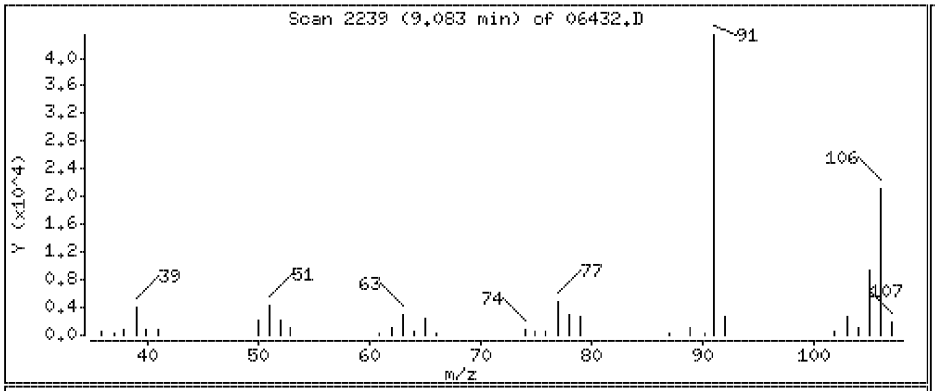
Operator: NCK

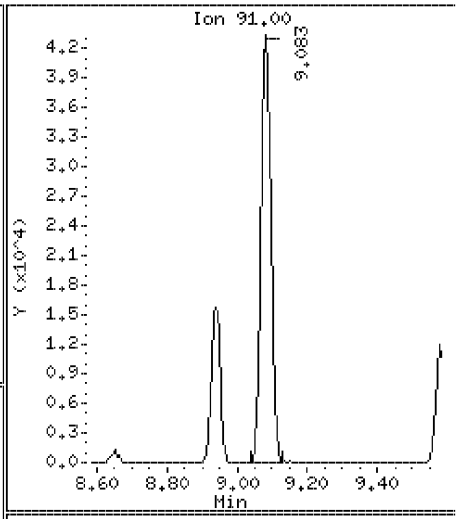
Column phase: J&W DB-5

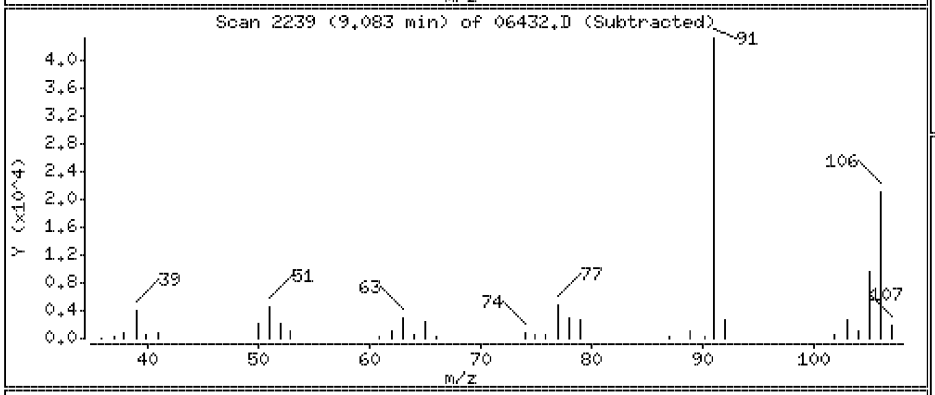
Column diameter: 0.32

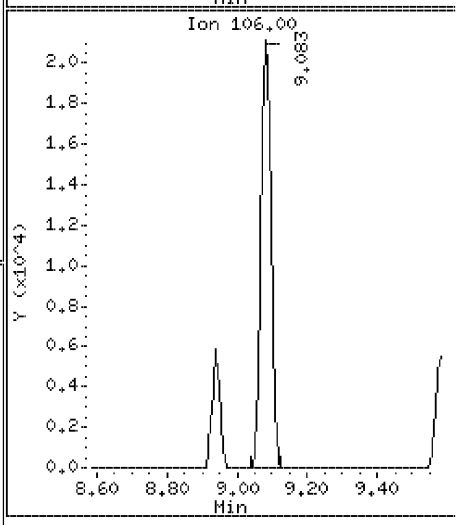
70 m&p-Xylene

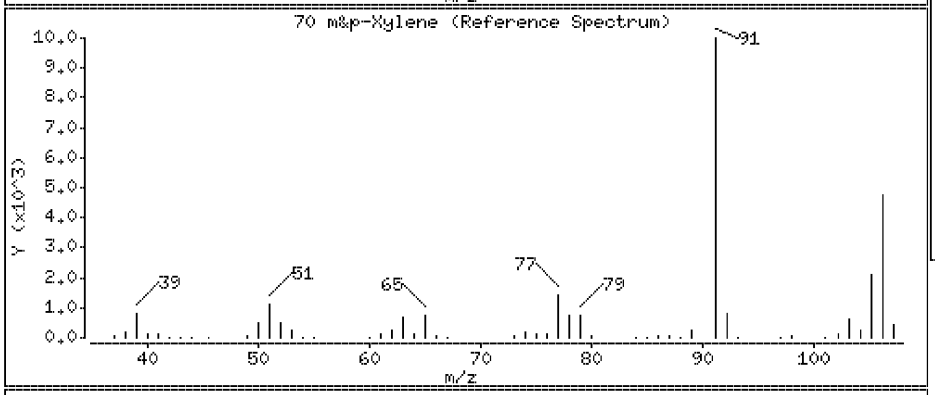
Concentration: 2.90 ppbv

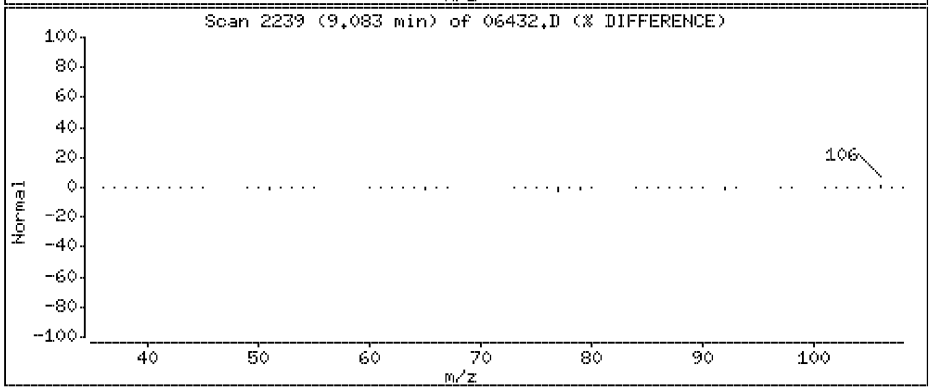












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

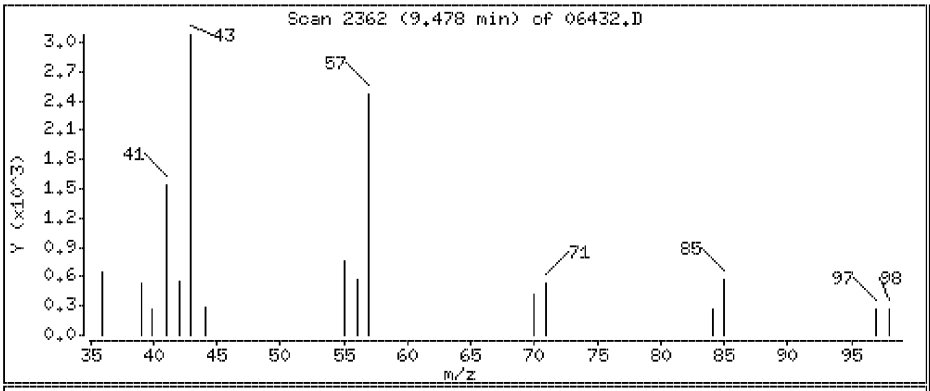
Operator: NCK

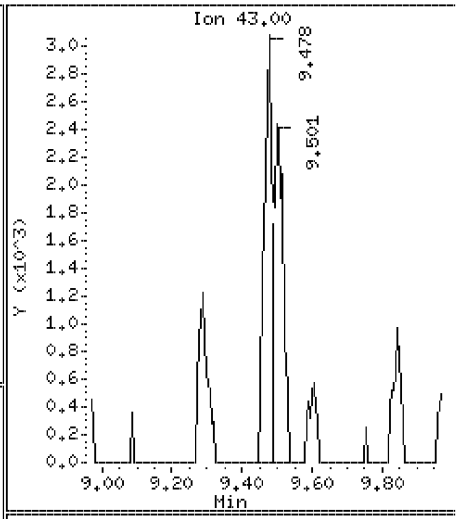
Column phase: J&W DB-5

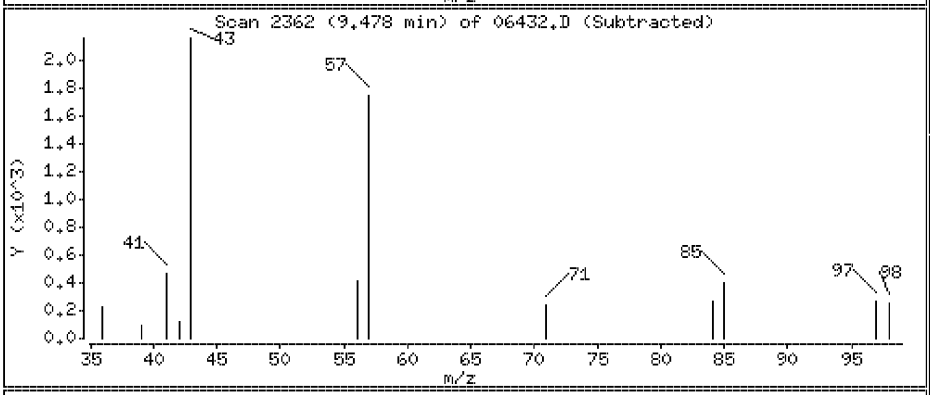
Column diameter: 0.32

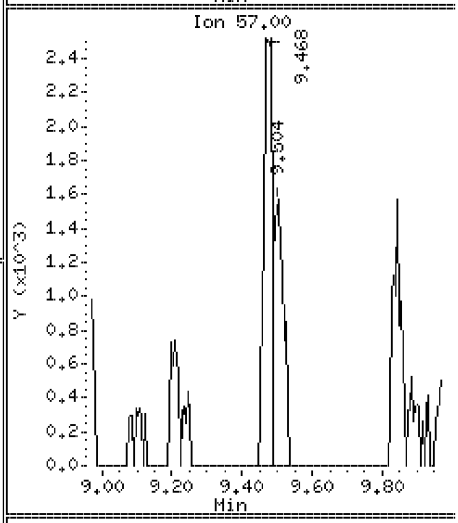
71 n-Nonane

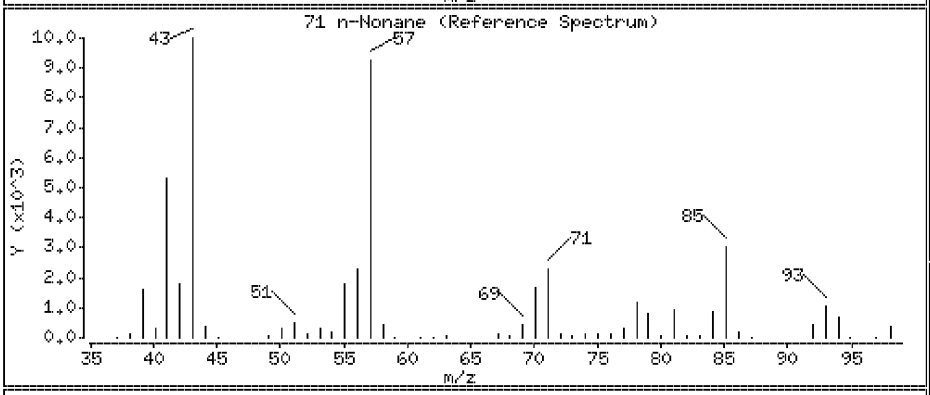
Concentration: 0.321 ppbv

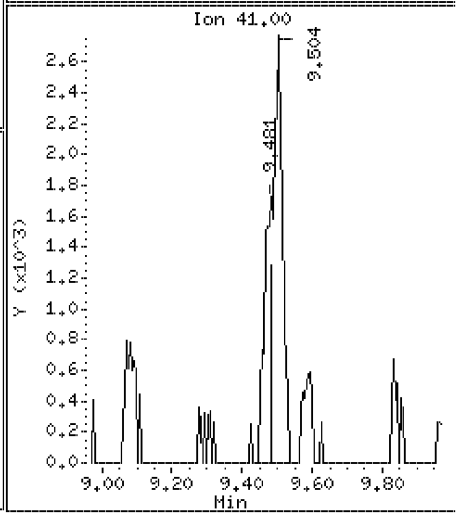


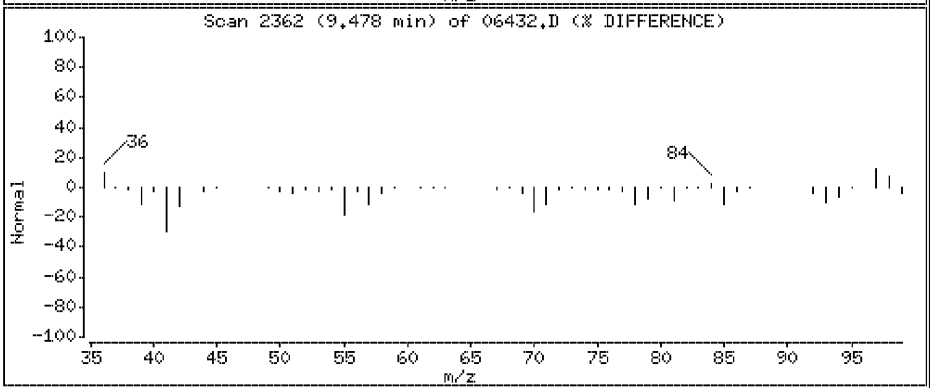












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

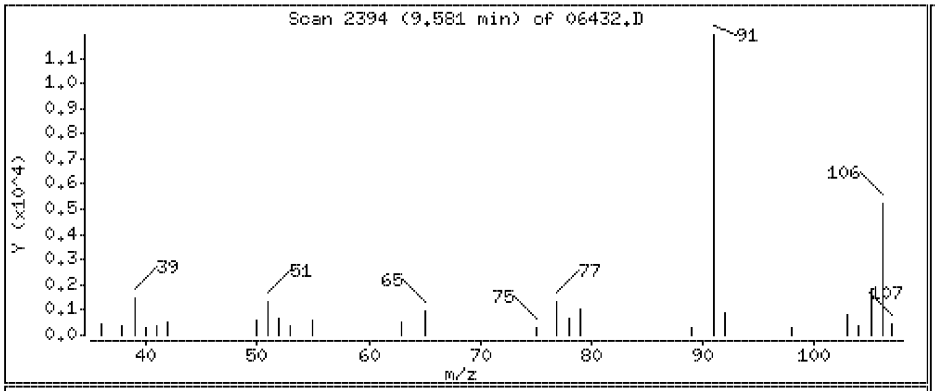
Operator: NCK

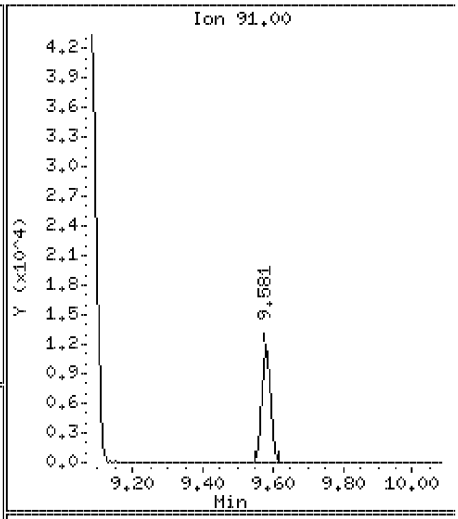
Column phase: J&W DB-5

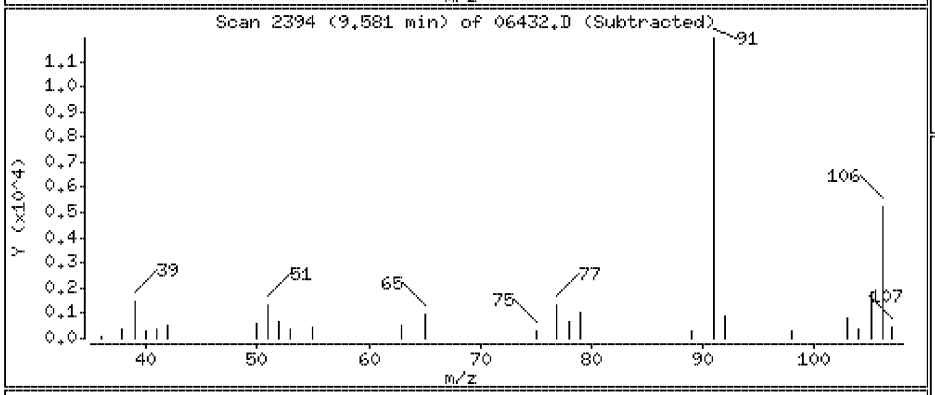
Column diameter: 0.32

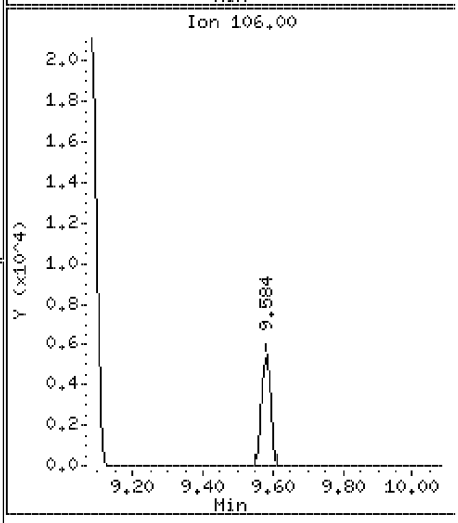
74 o-Xylene

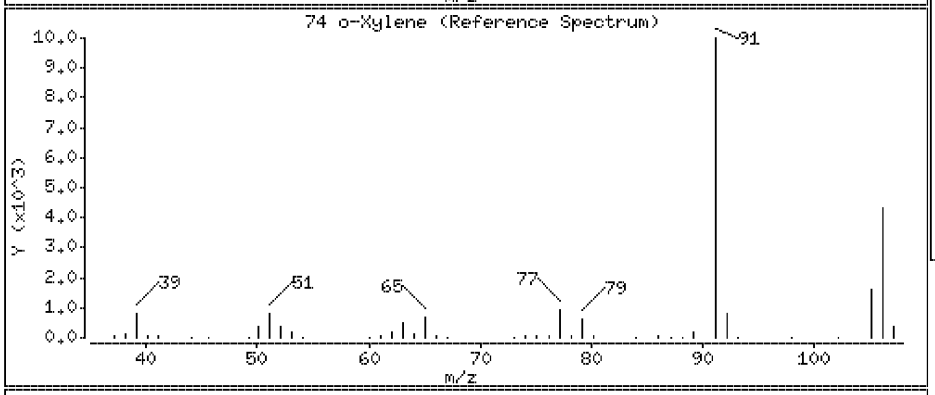
Concentration: 0.670 ppbv

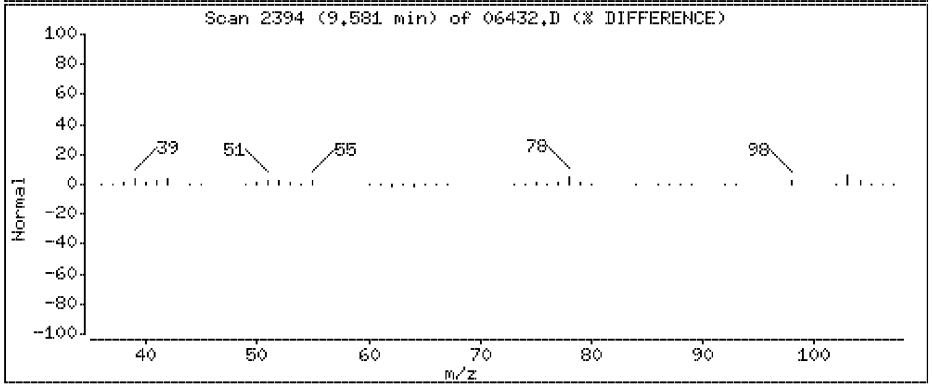












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

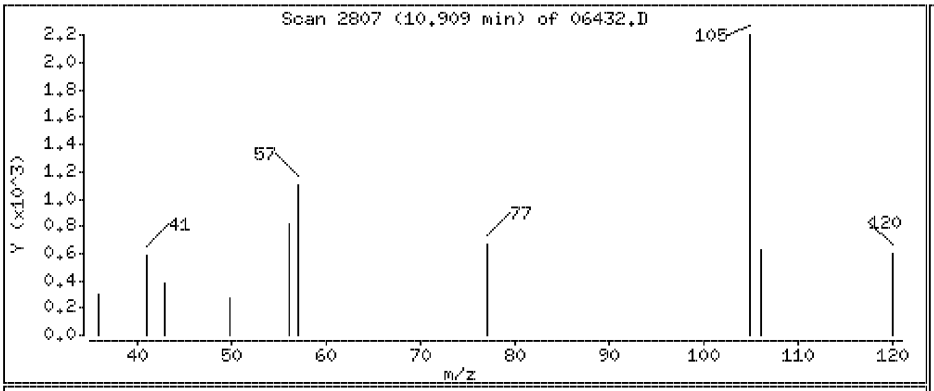
Operator: NCK

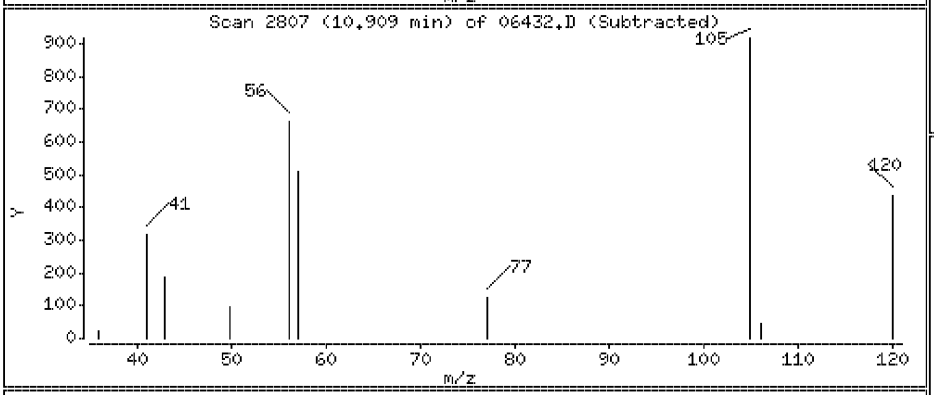
Column phase: J&W DB-5

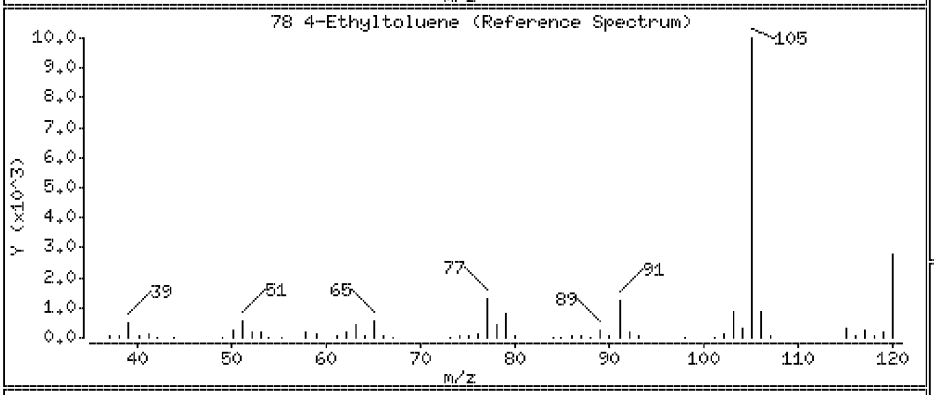
Column diameter: 0.32

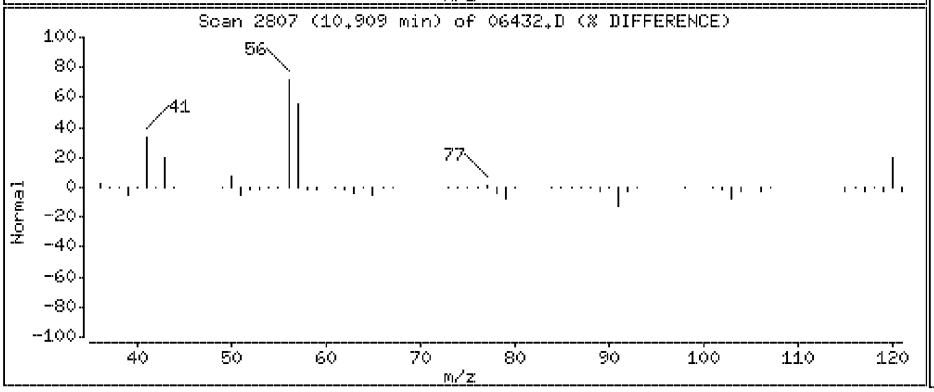
78 4-Ethyltoluene

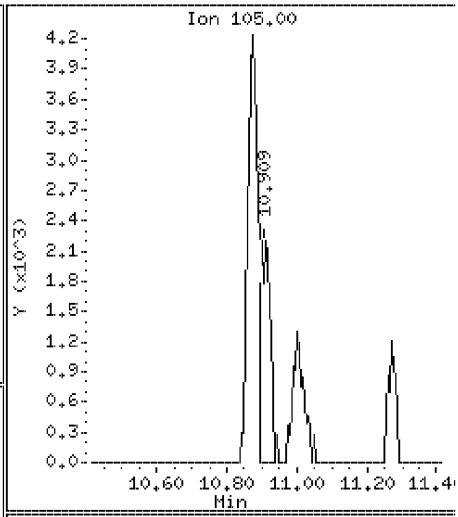
Concentration: 0.272 ppbv

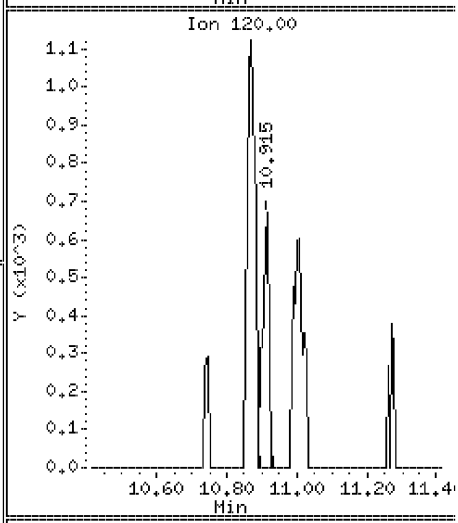


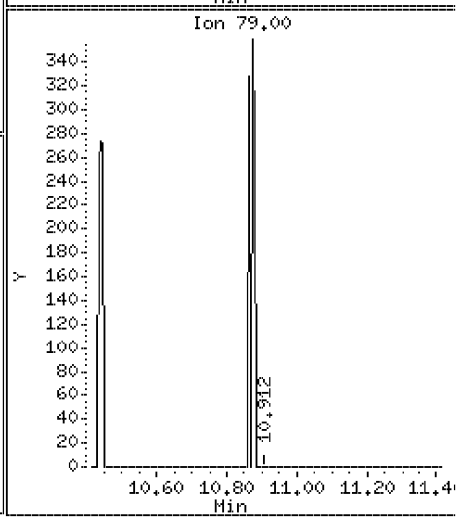












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

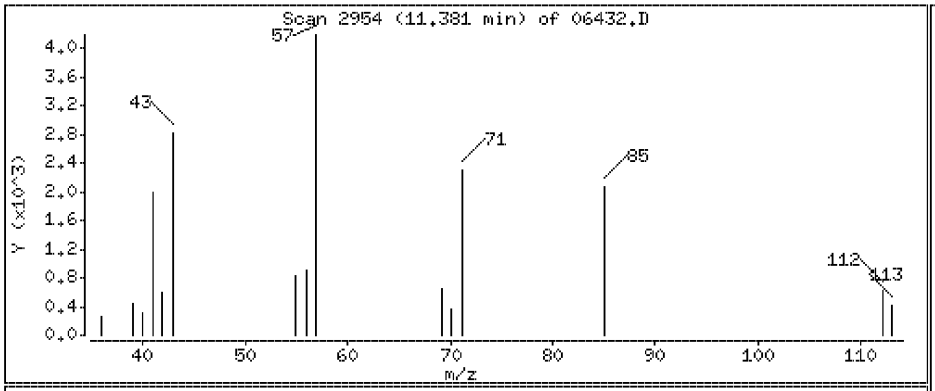
Operator: NCK

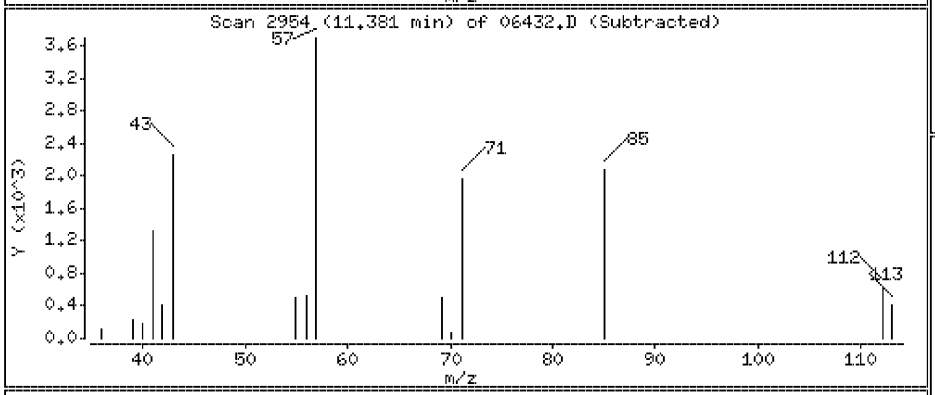
Column phase: J&W DB-5

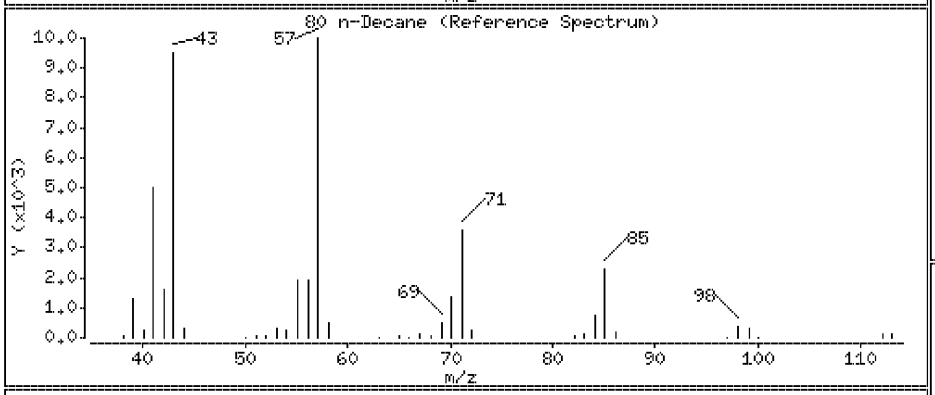
Column diameter: 0.32

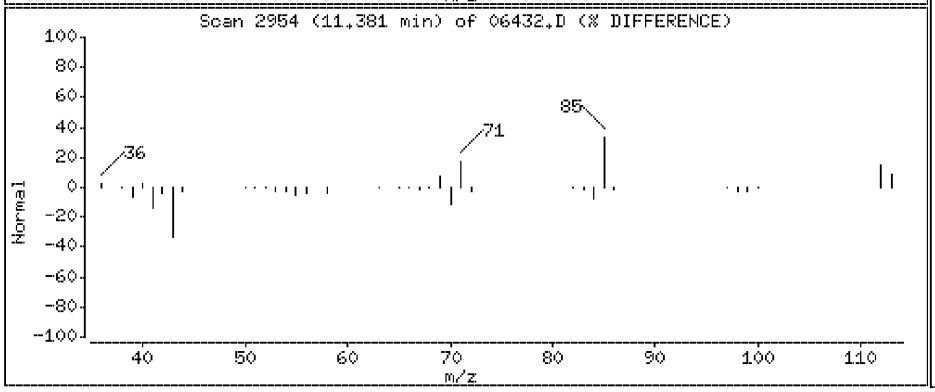
80 n-Decane

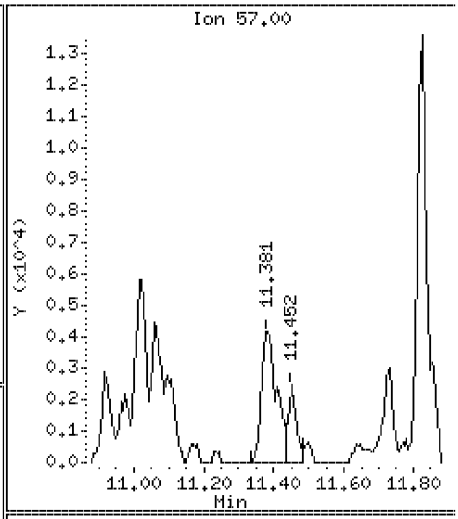
Concentration: 1.04 ppbv

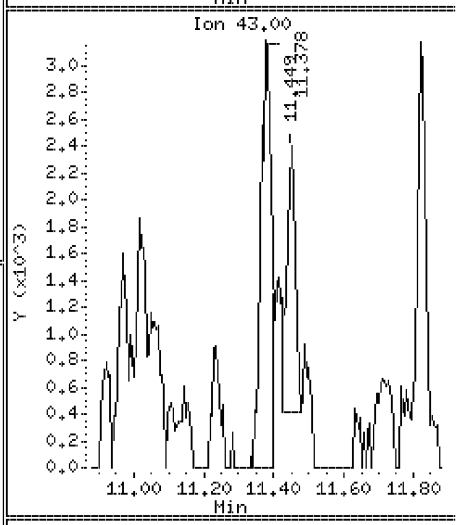


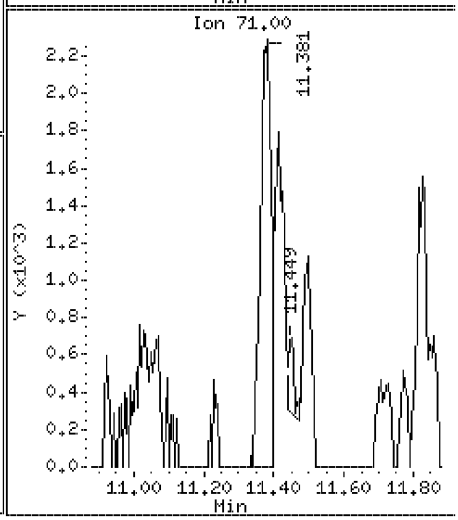












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

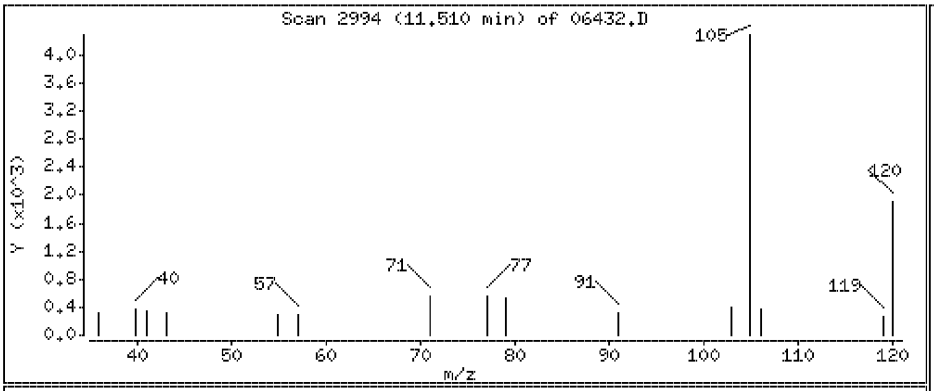
Operator: NCK

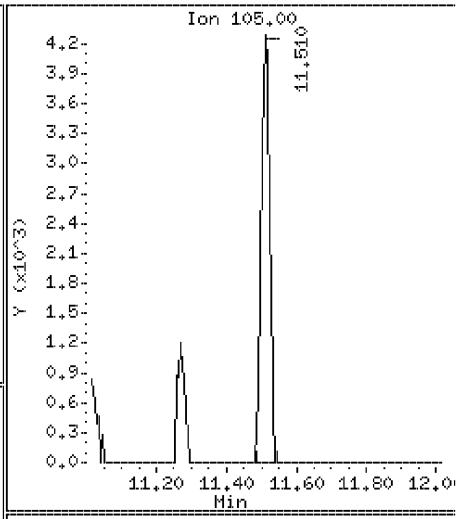
Column phase: J&W DB-5

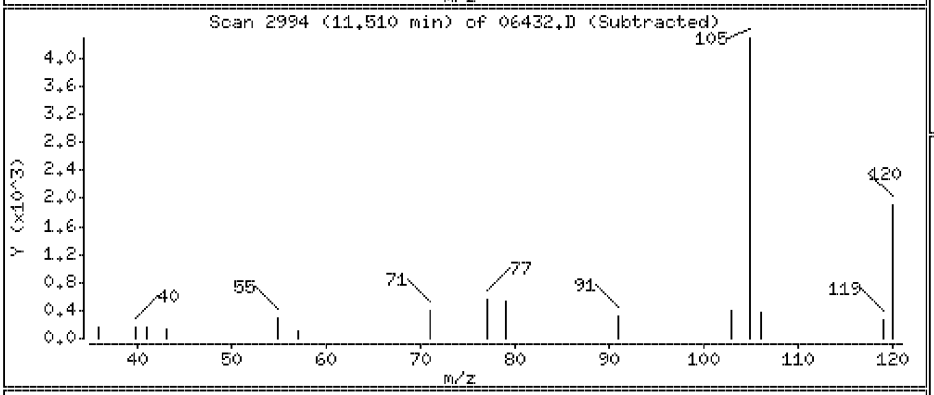
Column diameter: 0.32

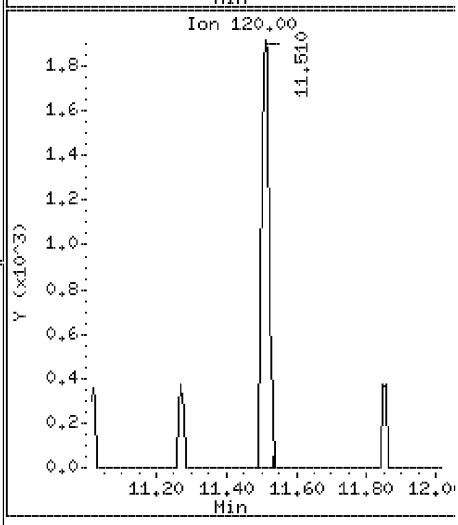
82 1,2,4-Trimethylbenzene

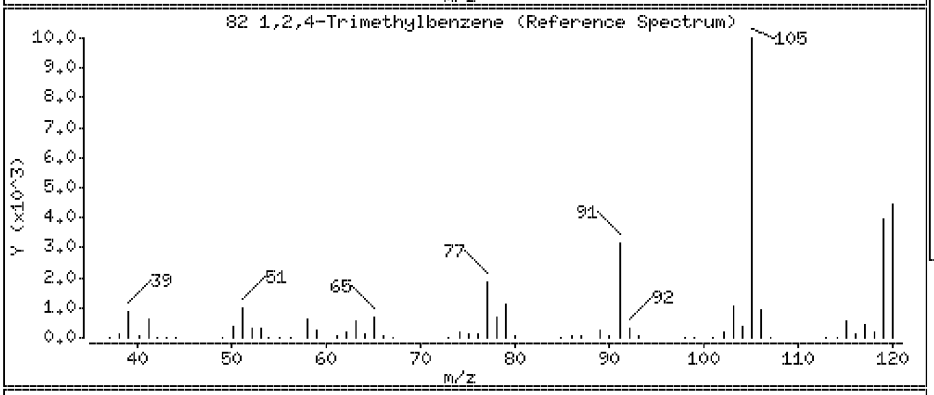
Concentration: 0.236 ppbv

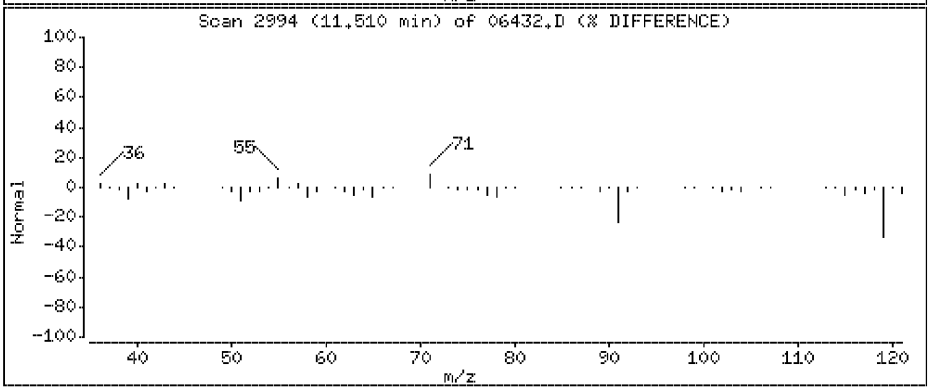












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

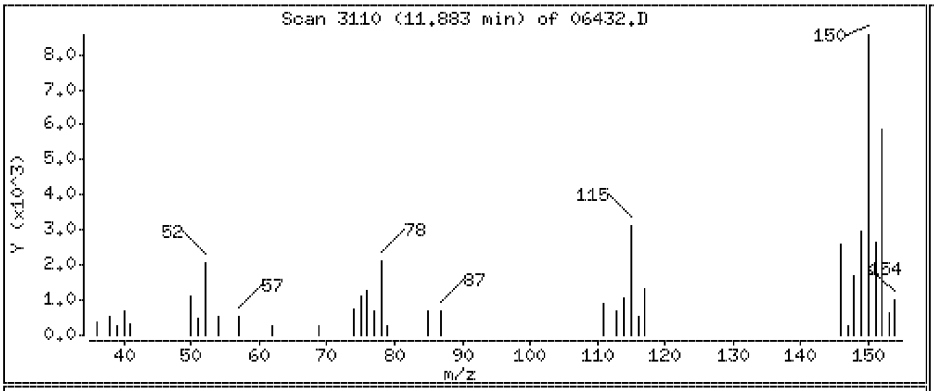
Operator: NCK

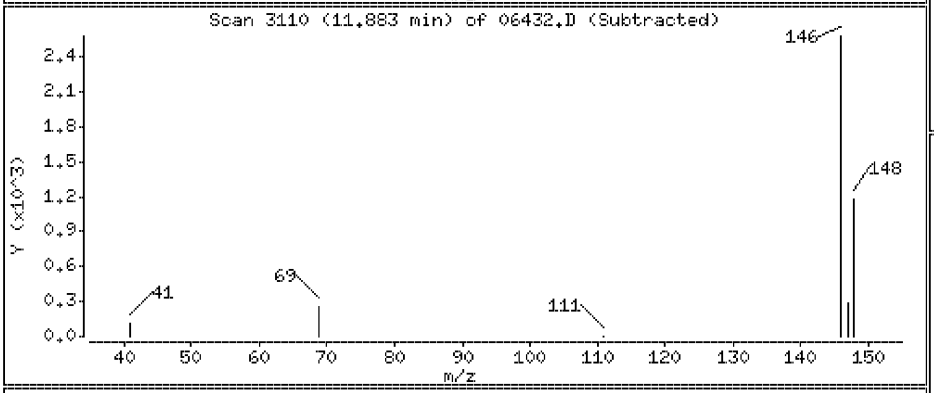
Column phase: J&W DB-5

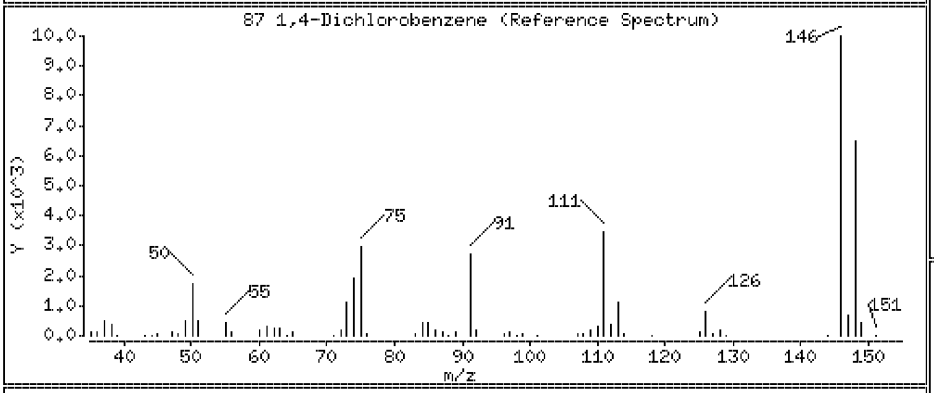
Column diameter: 0.32

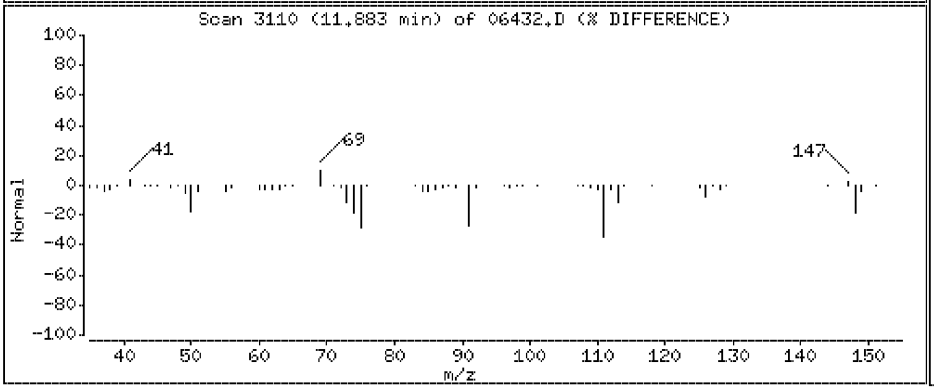
87 1,4-Dichlorobenzene

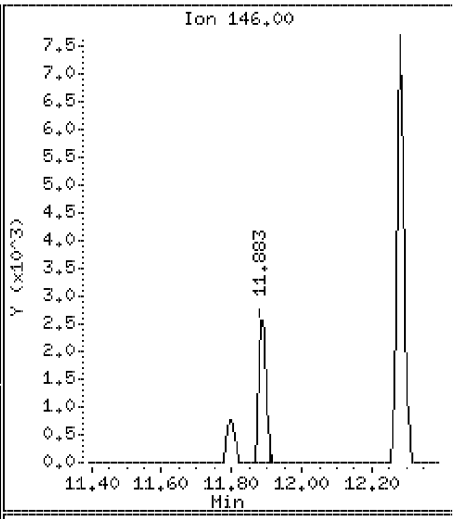
Concentration: 0.185 ppbv

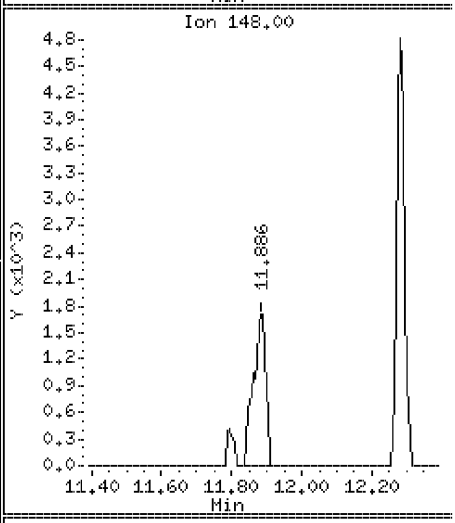


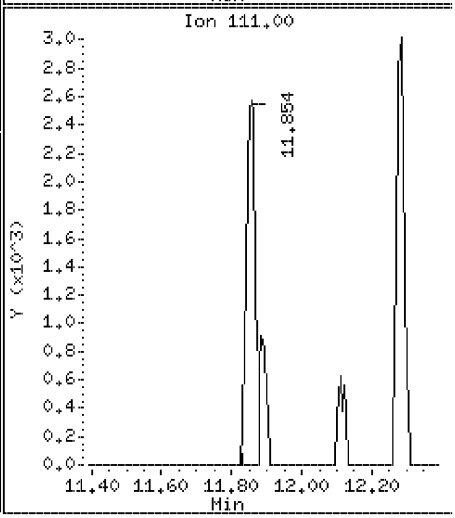












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

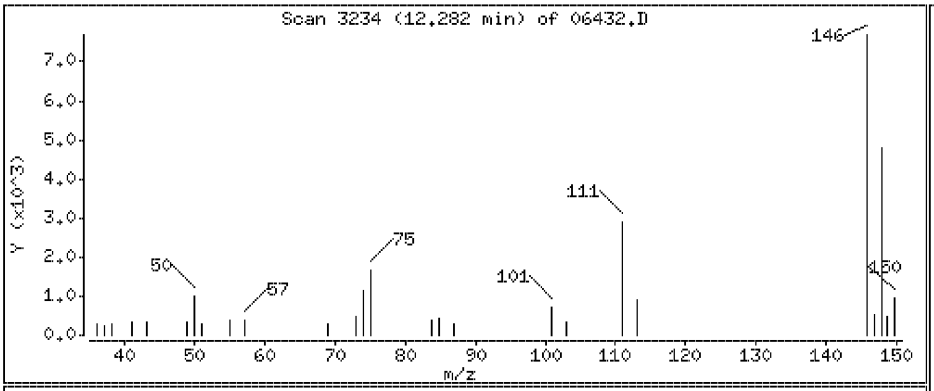
Operator: NCK

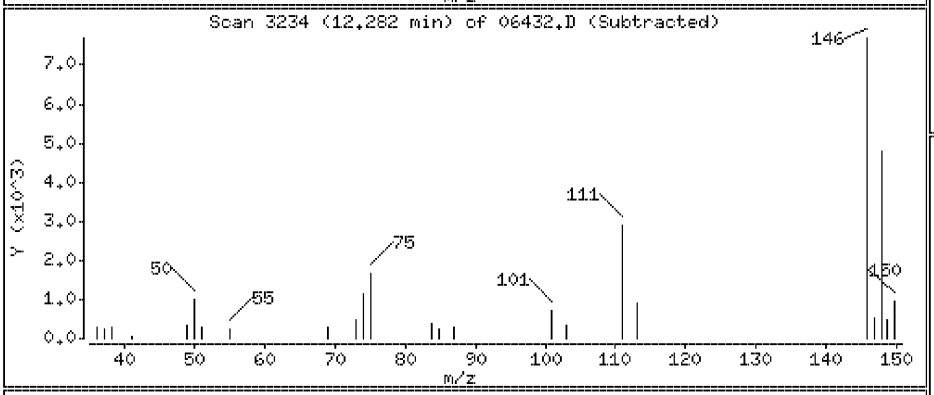
Column phase: J&W DB-5

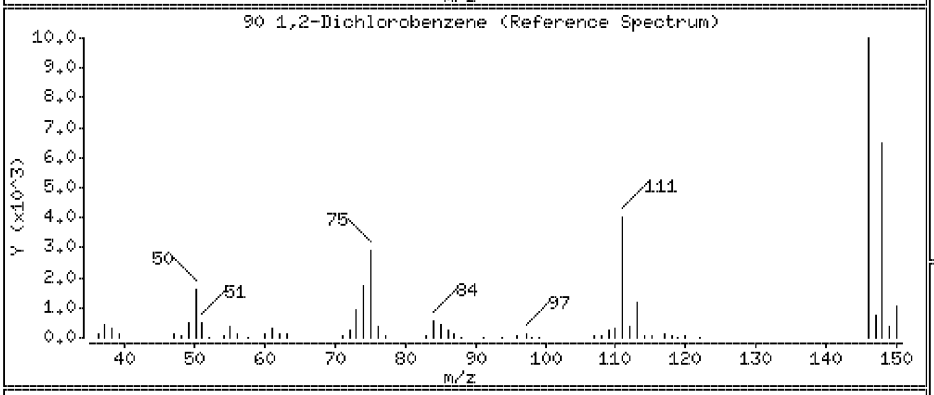
Column diameter: 0.32

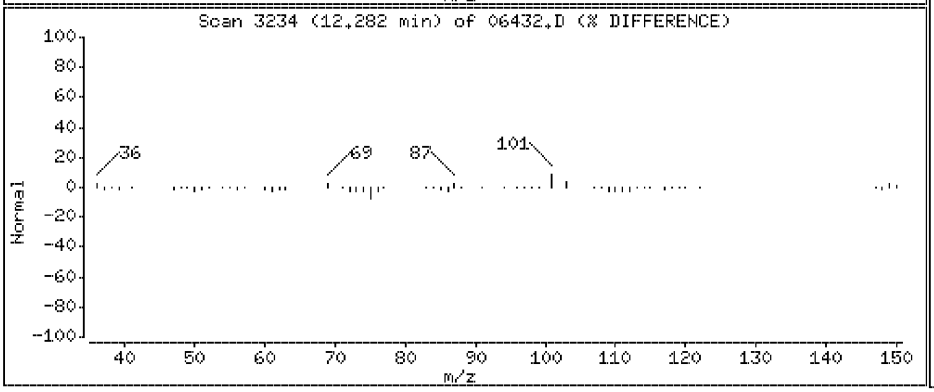
90 1,2-Dichlorobenzene

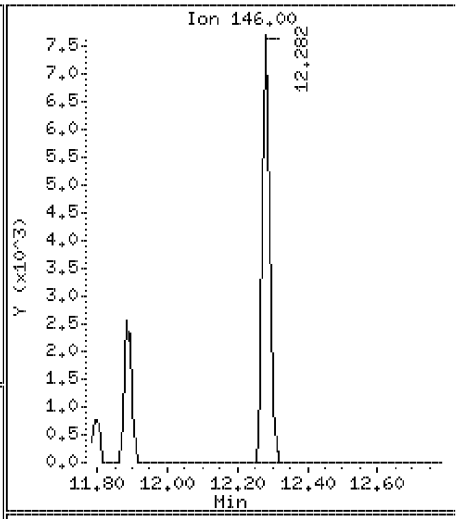
Concentration: 0.686 ppbv

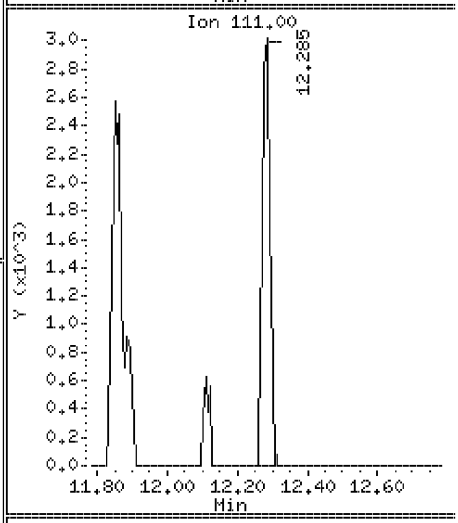


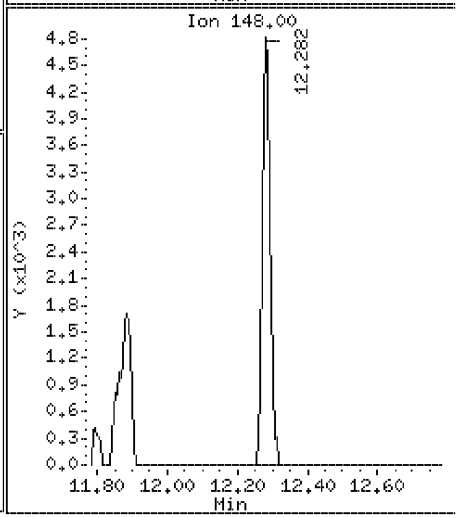












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06432.D

Date : 06-MAR-2017 01:10

Client ID:

Instrument: 10airB.i

Sample Info:

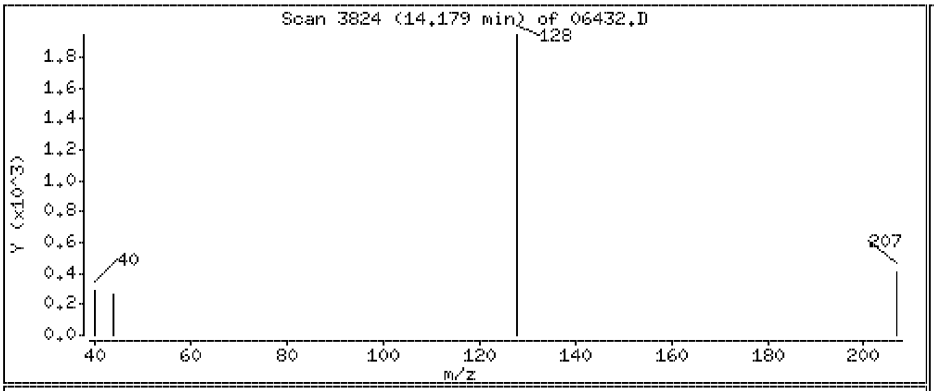
Operator: NCK

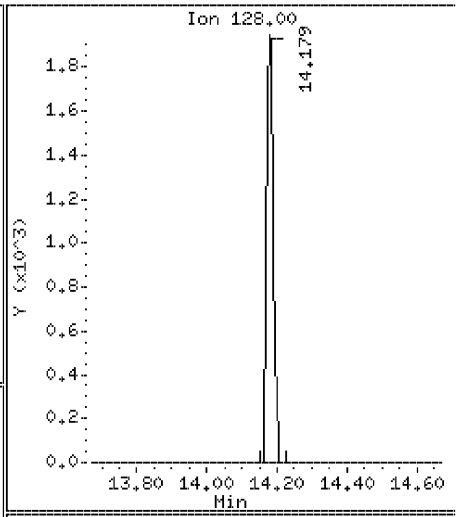
Column phase: J&W DB-5

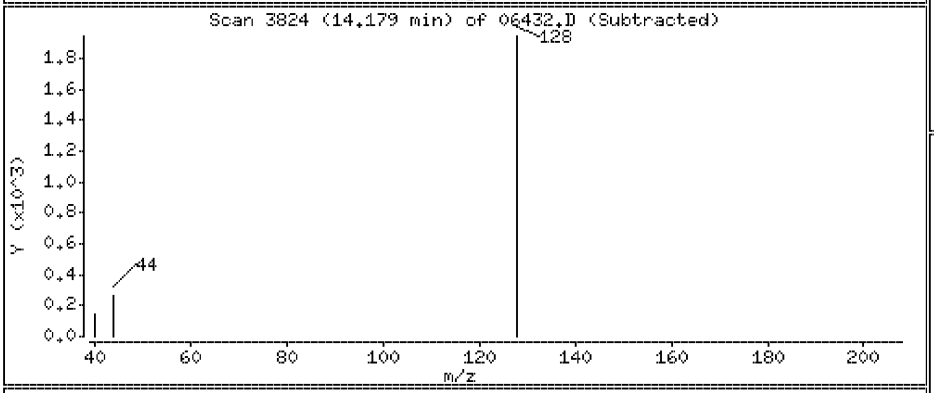
Column diameter: 0.32

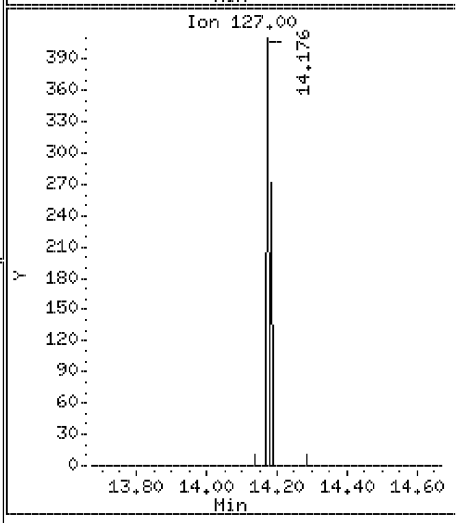
94 Naphthalene

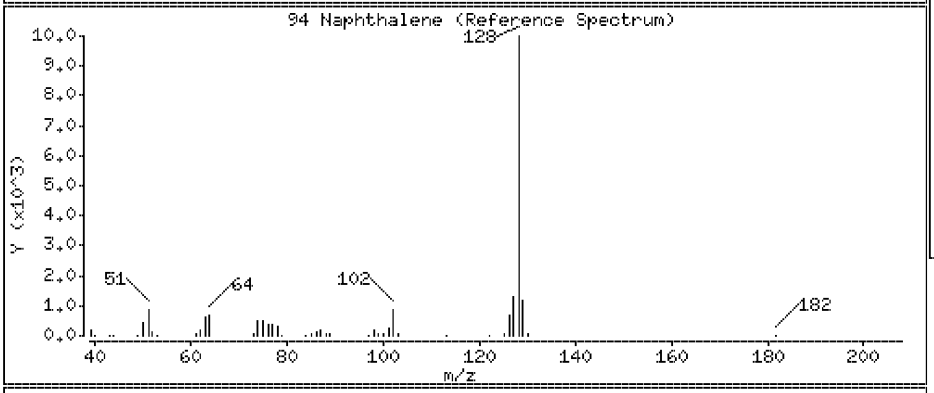
Concentration: 0.742 ppbv

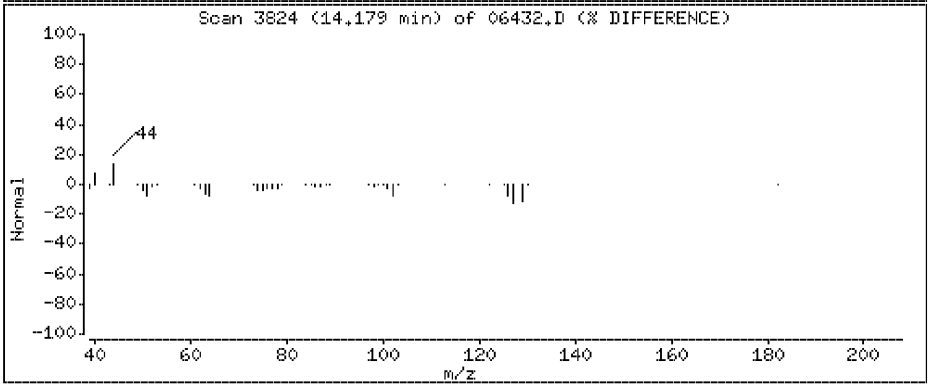






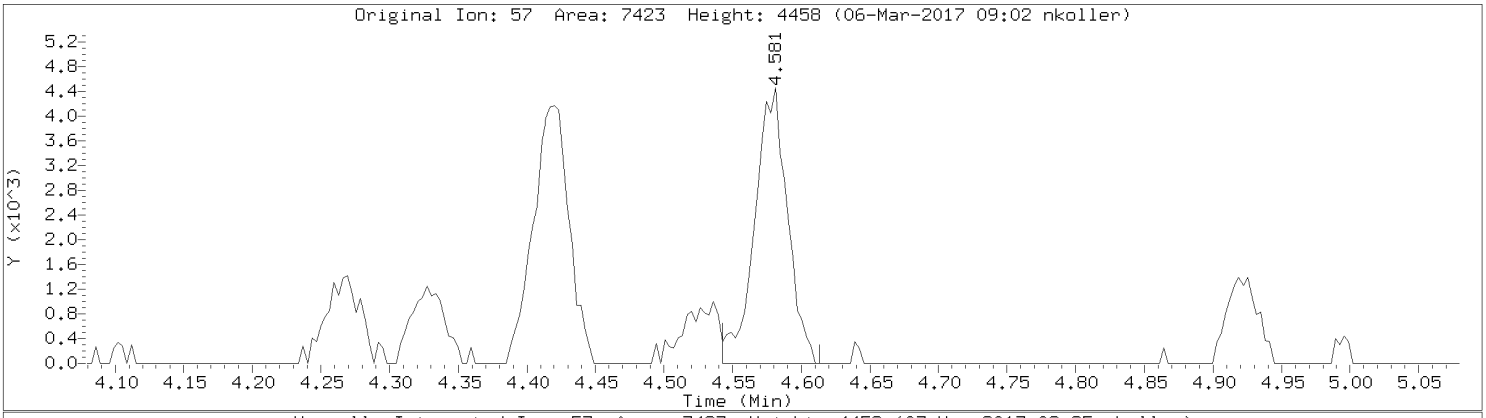


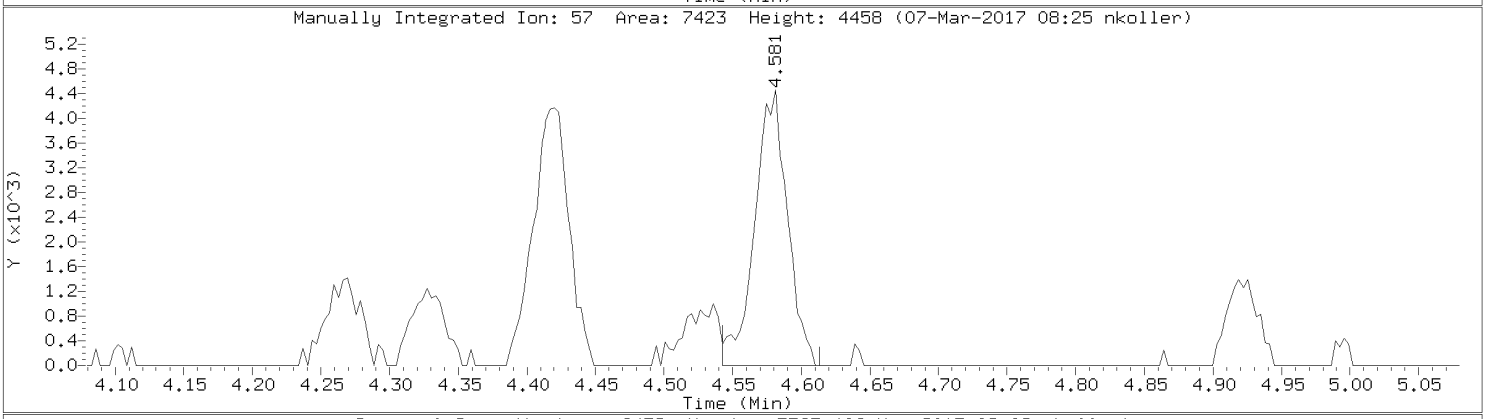


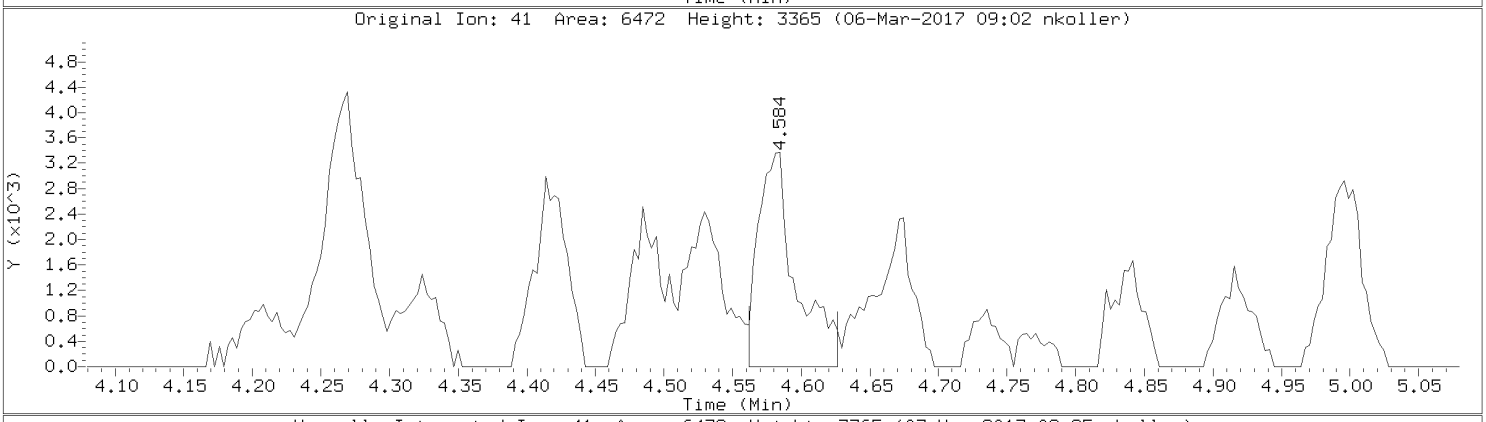


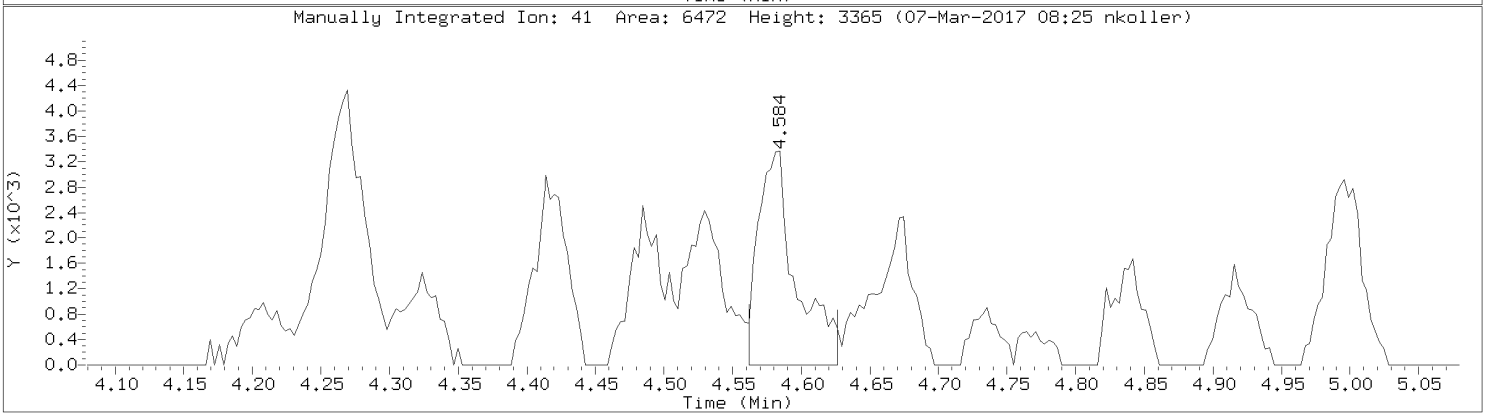
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06432.D
Injection Date: 06-MAR-2017 01:10
Instrument: 10airB.i
Lab Sample ID: 10380193012

Compound: n-Hexane
CAS Number: 110-54-3

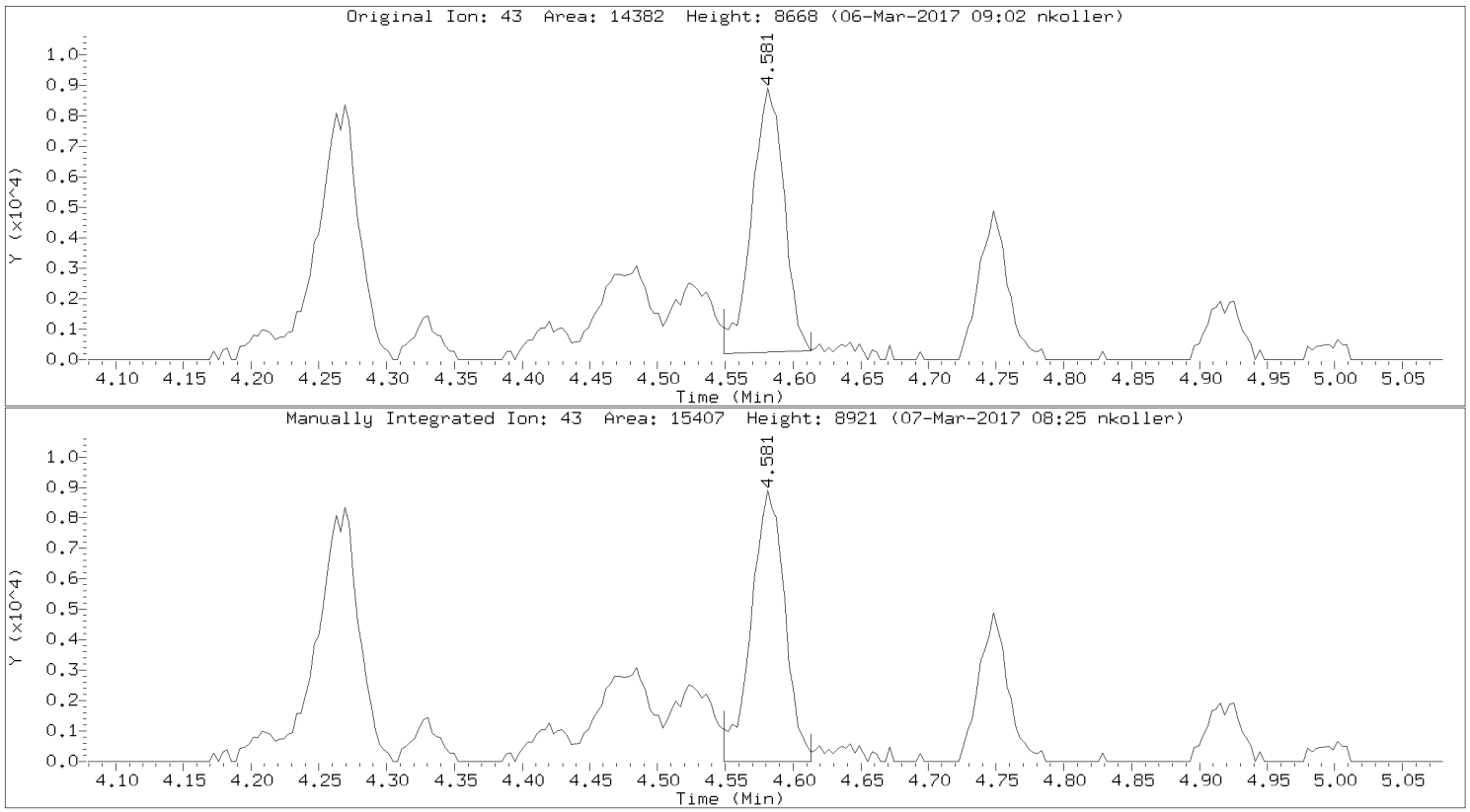






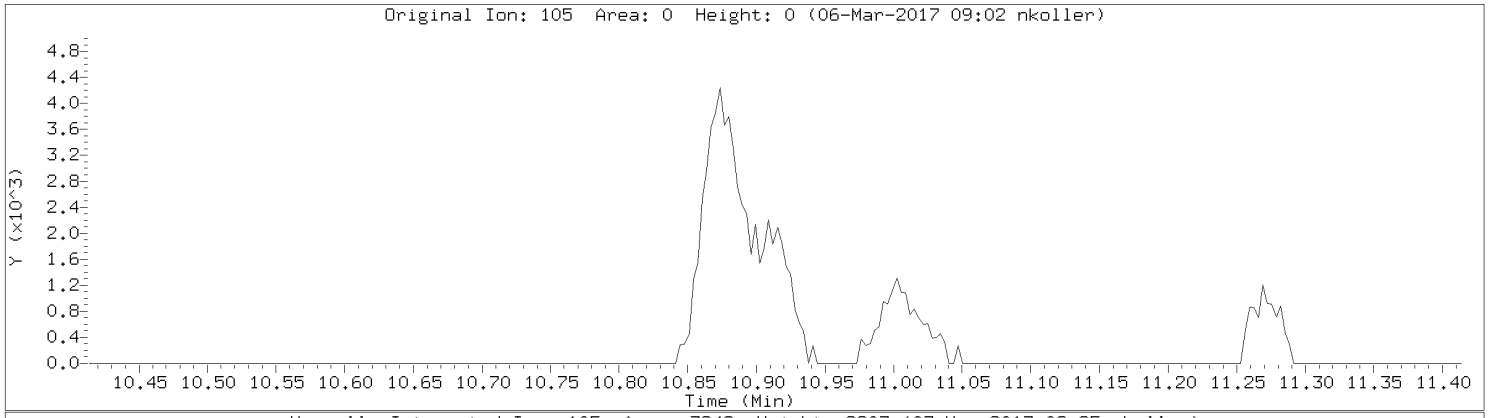


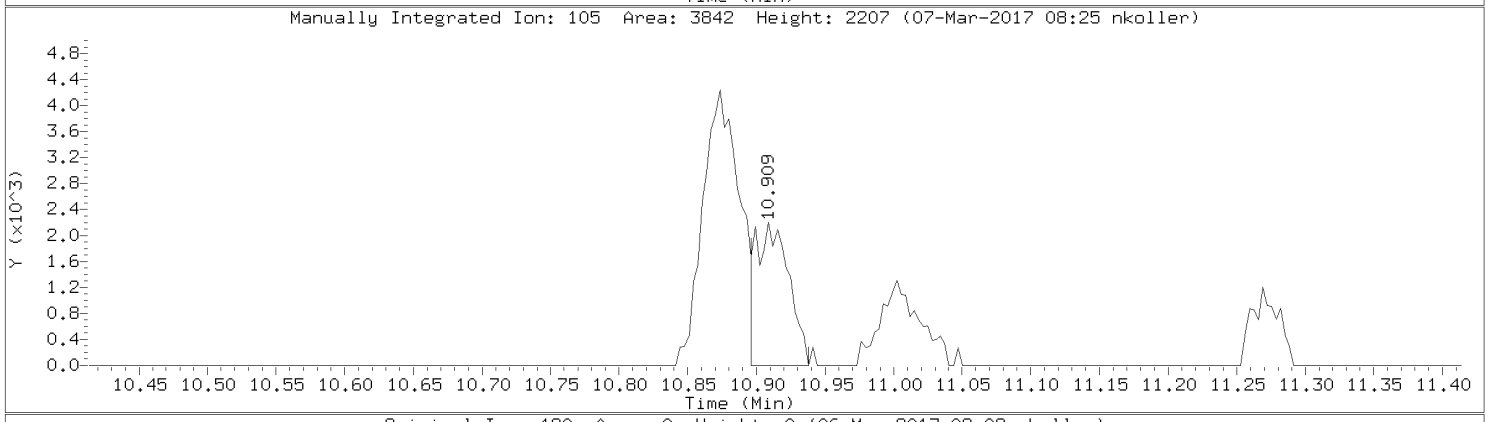
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06432.D
Injection Date: 06-MAR-2017 01:10
Instrument: 10airB.i
Lab Sample ID: 10380193012

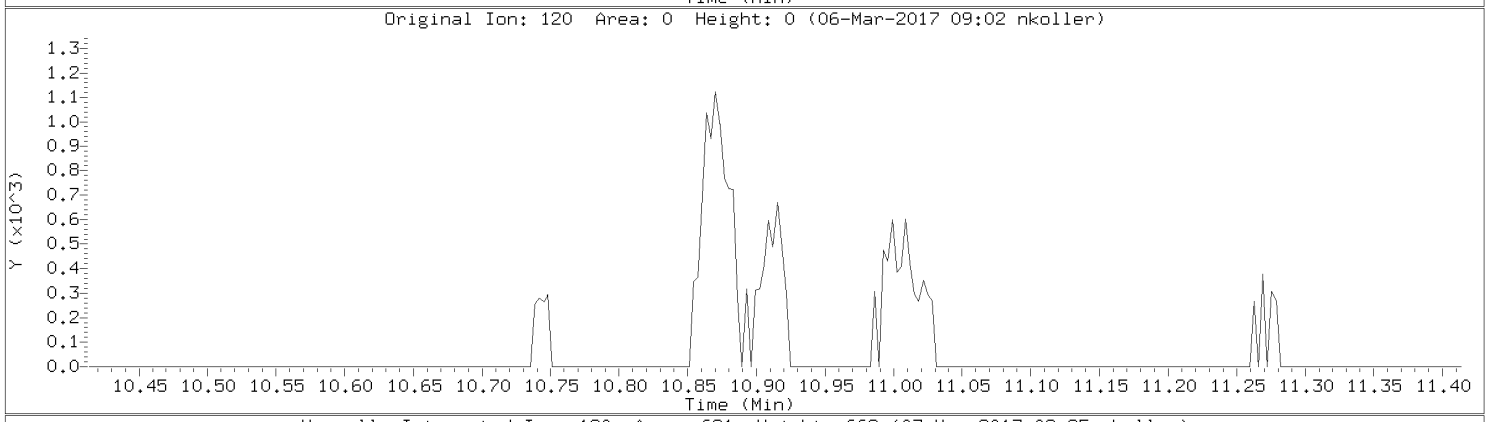


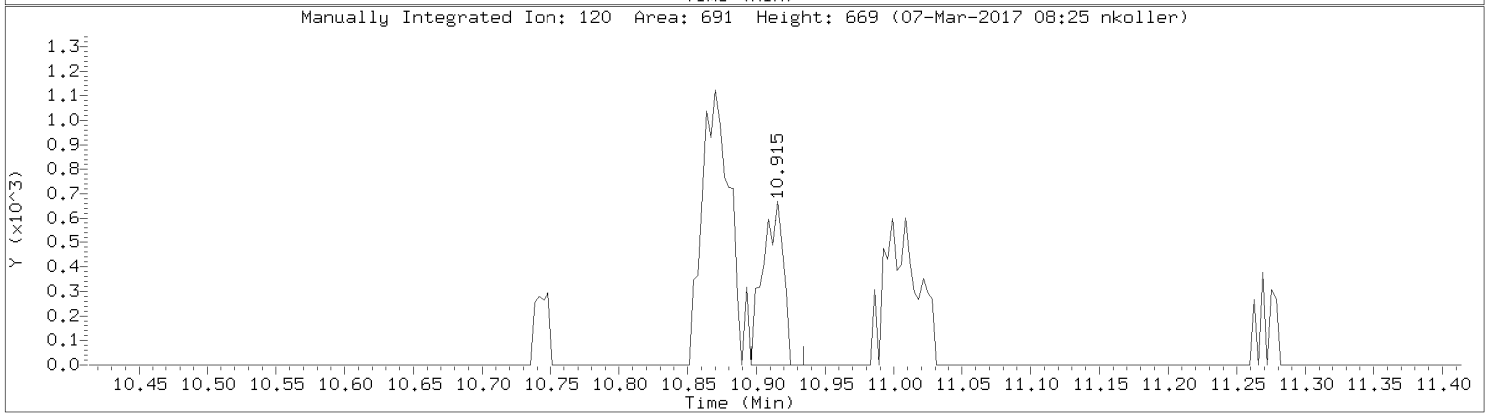
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06432.D
Injection Date: 06-MAR-2017 01:10
Instrument: 10airB.i
Lab Sample ID: 10380193012

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

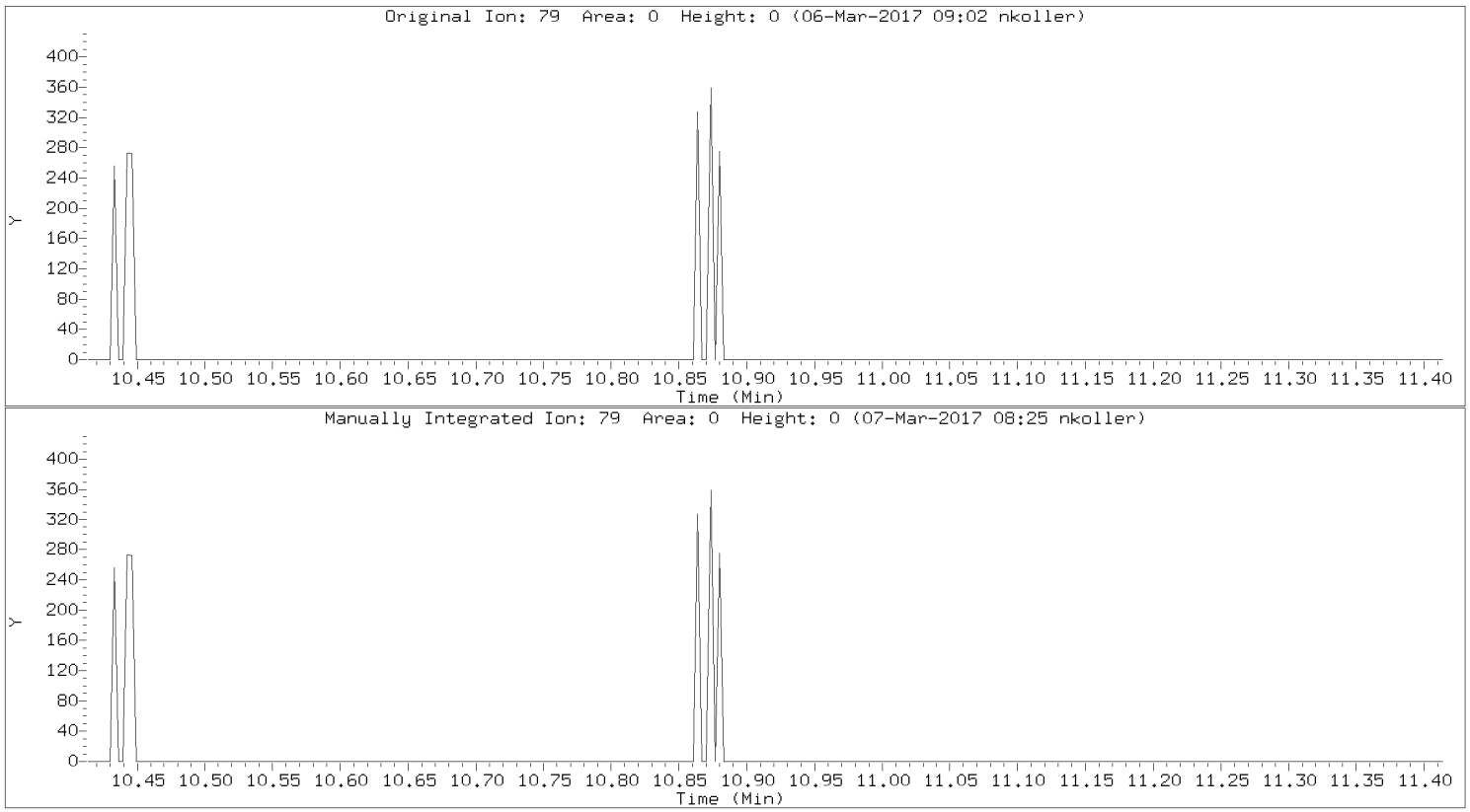






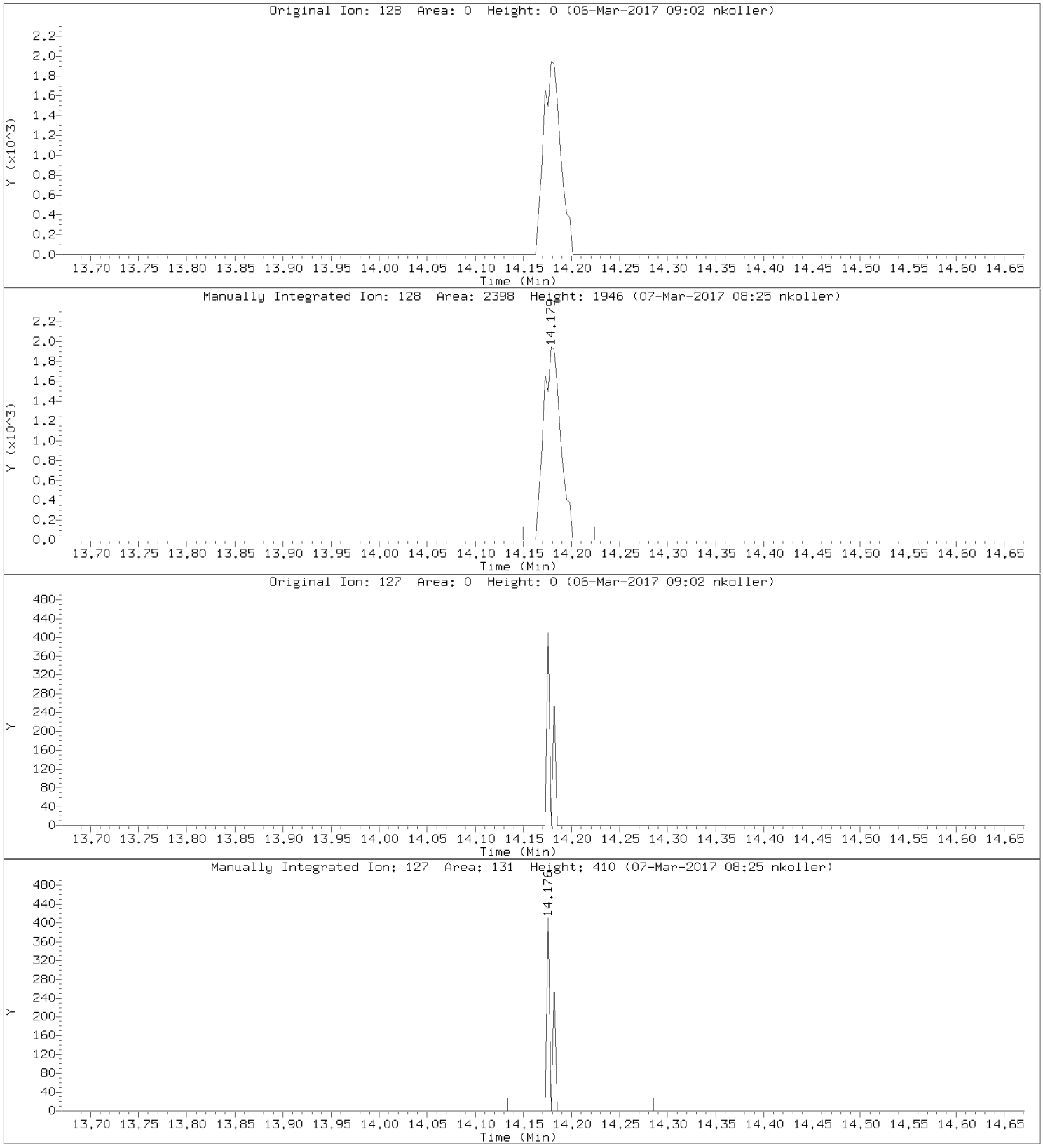


Data File: \\192.168.10.12\chem\10airB.i\030517.b/06432.D
Injection Date: 06-MAR-2017 01:10
Instrument: 10airB.i
Lab Sample ID: 10380193012



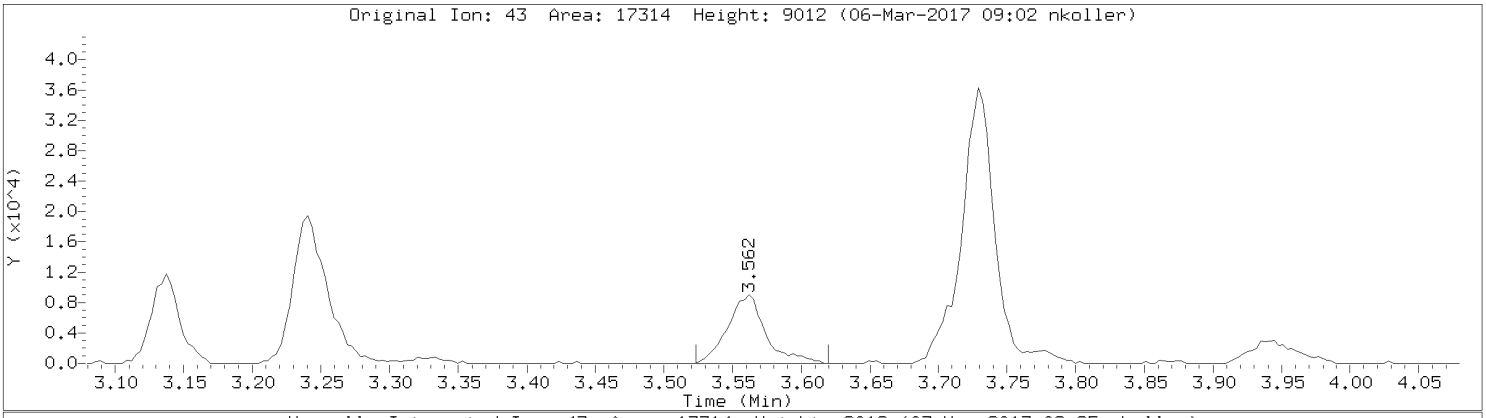
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06432.D
Injection Date: 06-MAR-2017 01:10
Instrument: 10airB.i
Lab Sample ID: 10380193012

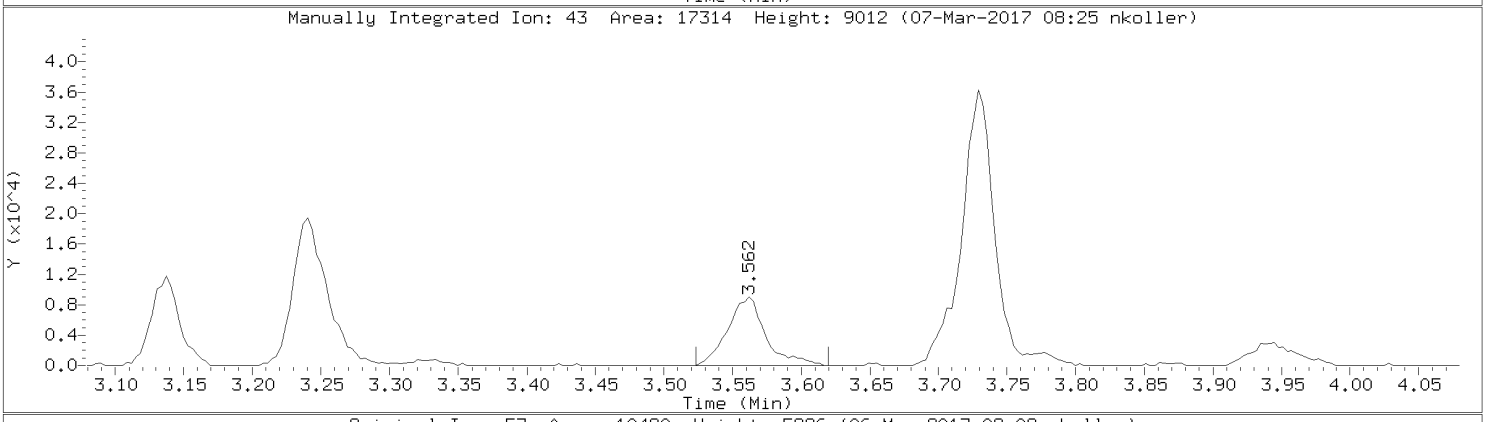
Compound: Naphthalene
CAS Number: 91-20-3

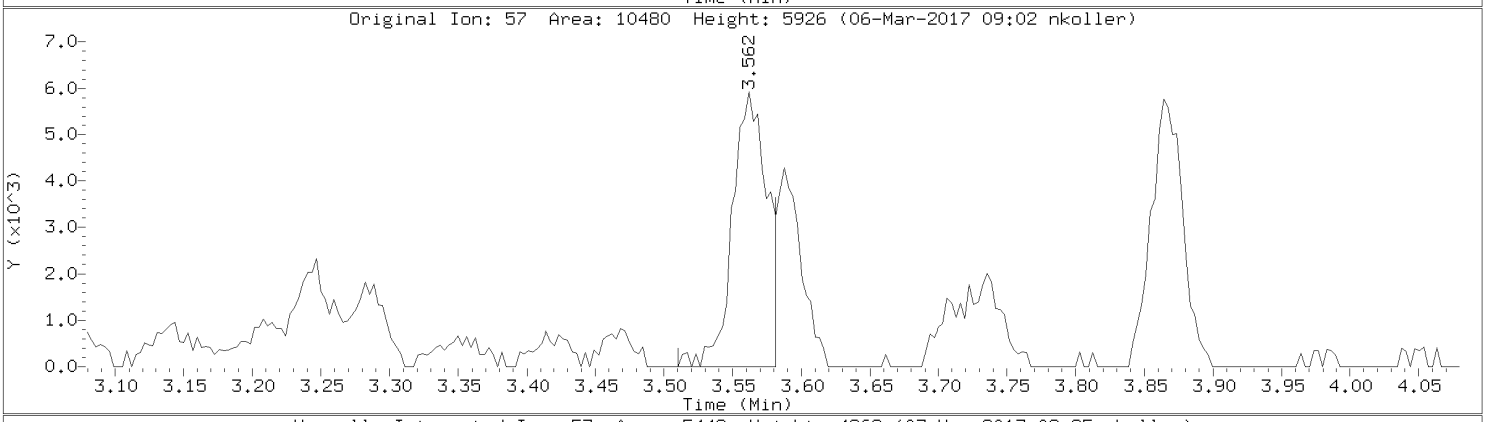


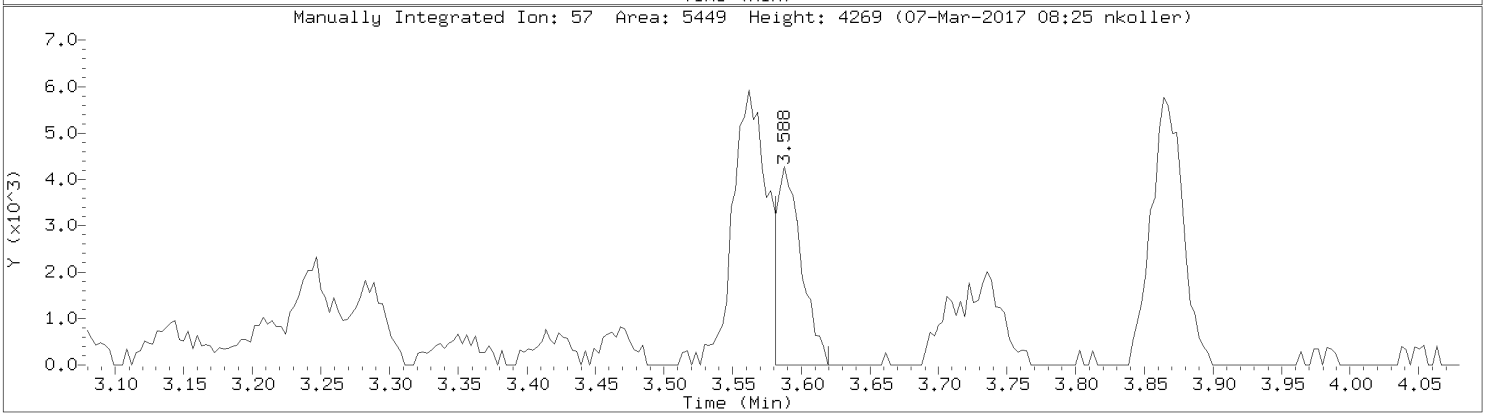
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06432.D
Injection Date: 06-MAR-2017 01:10
Instrument: 10airB.i
Lab Sample ID: 10380193012

Compound: Isopentane
CAS Number: 78-78-4

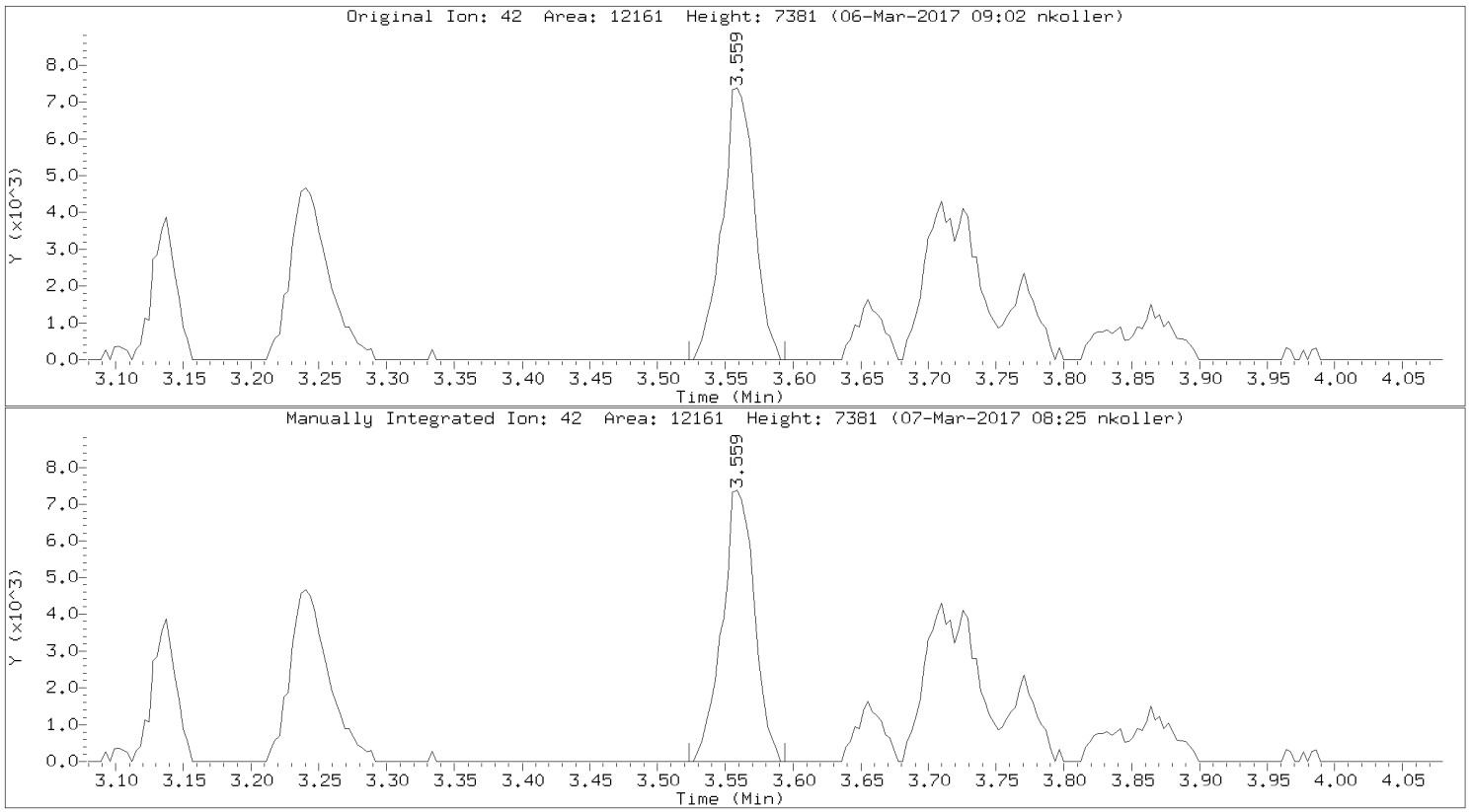








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06432.D
Injection Date: 06-MAR-2017 01:10
Instrument: 10airB.i
Lab Sample ID: 10380193012



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06514.D
Report Date: 07-Mar-2017 14:06

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06514.D
Lab Smp Id: 10380193012
Inj Date : 06-MAR-2017 15:02
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 13:55 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 14
Dil Factor: 292.80000
Integrator: HP RTE Compound Sublist: dil.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	292.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	22 Freon 113	101	3.938	3.954	(0.703)	5298	0.19623	57.5	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.700	4.725	(0.839)	13379	1.02640	301	(Q)
	39 Chloroform	83	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	1304089	10.0000		
	51 Trichloroethene	130	5.976	5.989	(1.067)	356601	16.2749	4770	
	66 Tetrachloroethene	166	7.983	7.989	(0.924)	63237	2.18562	640	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	833233	10.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06514.D
Report Date: 07-Mar-2017 14:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06514.D
Lab Smp Id: 10380193012
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

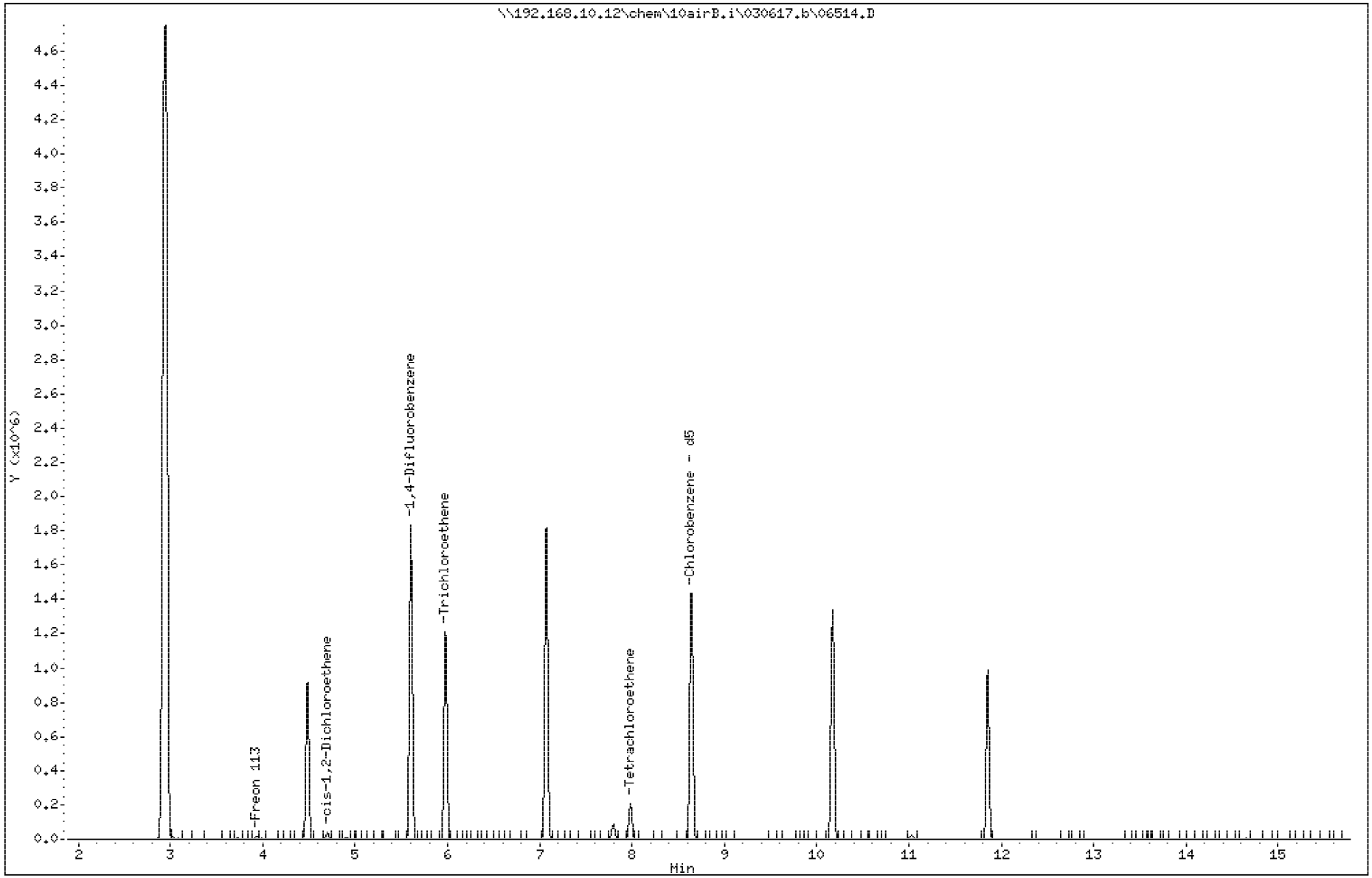
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1304089	-7.78
67 Chlorobenzene - d	951026	570616	1331436	833233	-12.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06514.D
Date : 06-MAR-2017 15:02
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06514.D

Date : 06-MAR-2017 15:02

Client ID:

Instrument: 10airB.i

Sample Info:

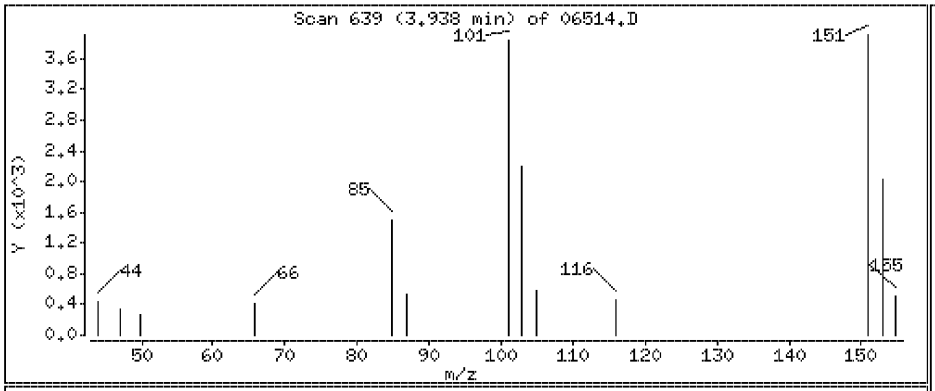
Operator: NCK

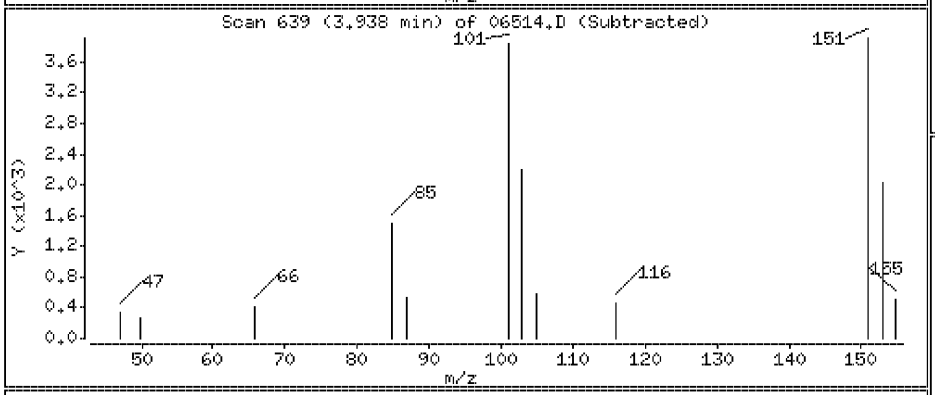
Column phase: J&W DB-5

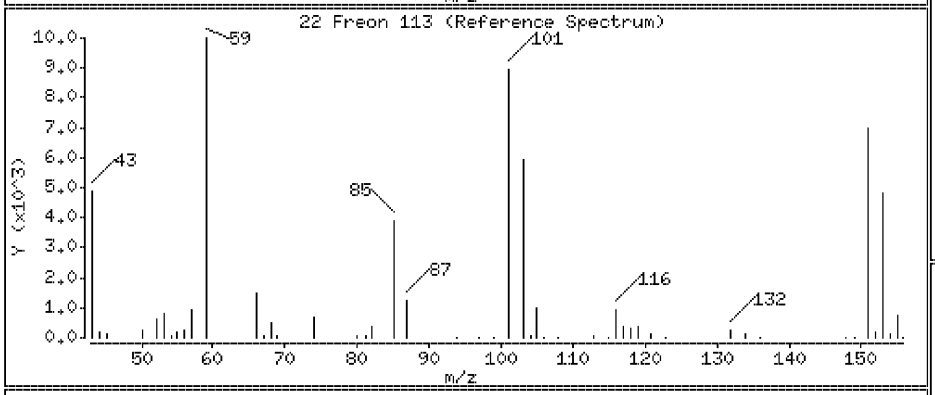
Column diameter: 0.32

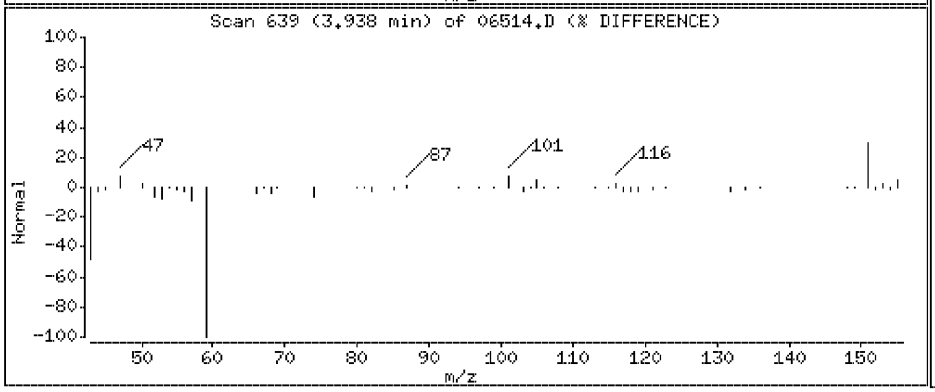
22 Freon 113

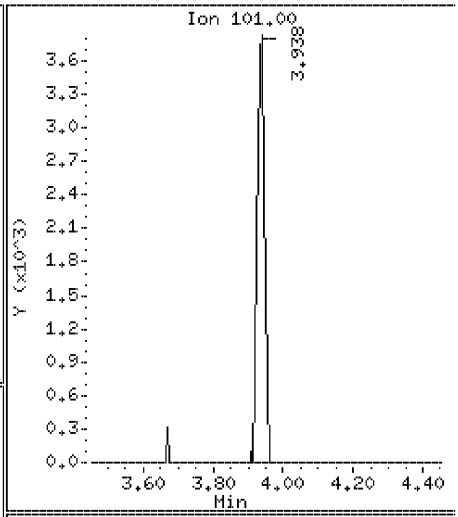
Concentration: 57.5 ppbv

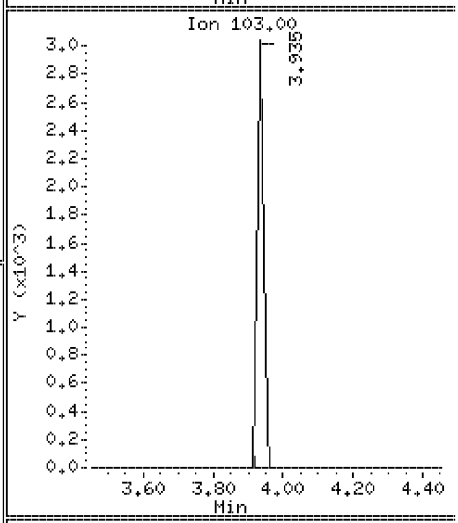


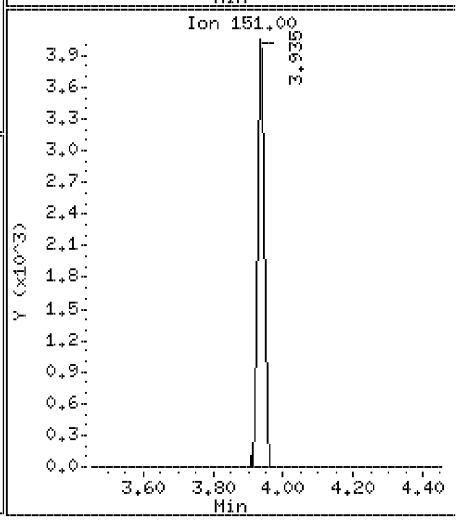












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06514.D

Date : 06-MAR-2017 15:02

Client ID:

Instrument: 10airB.i

Sample Info:

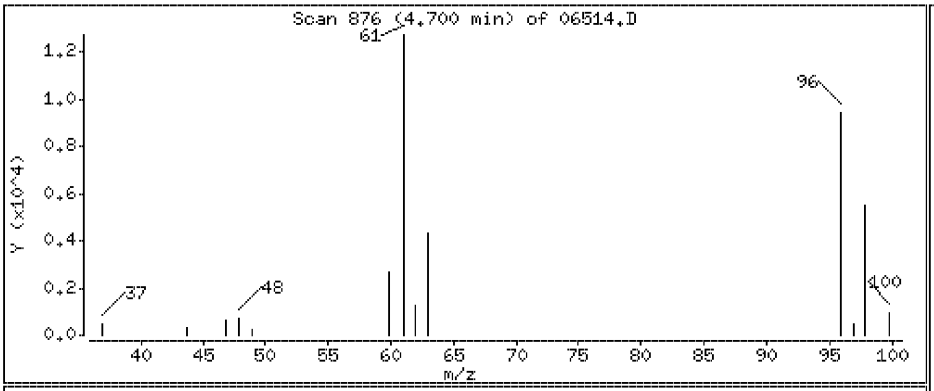
Operator: NCK

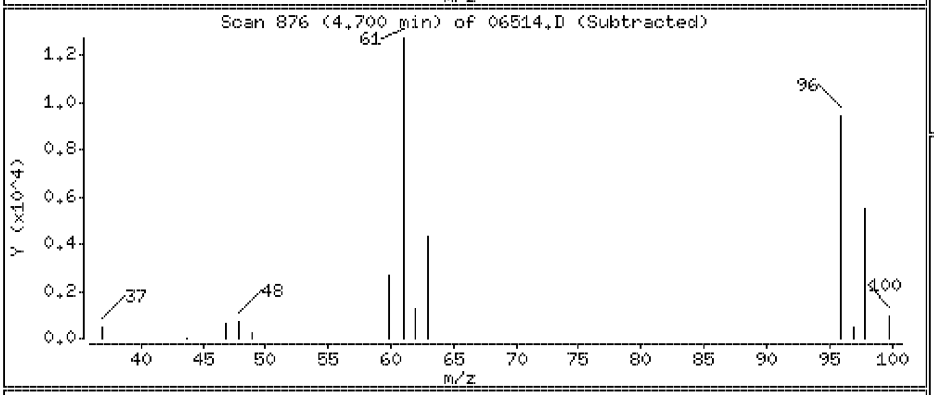
Column phase: J&W DB-5

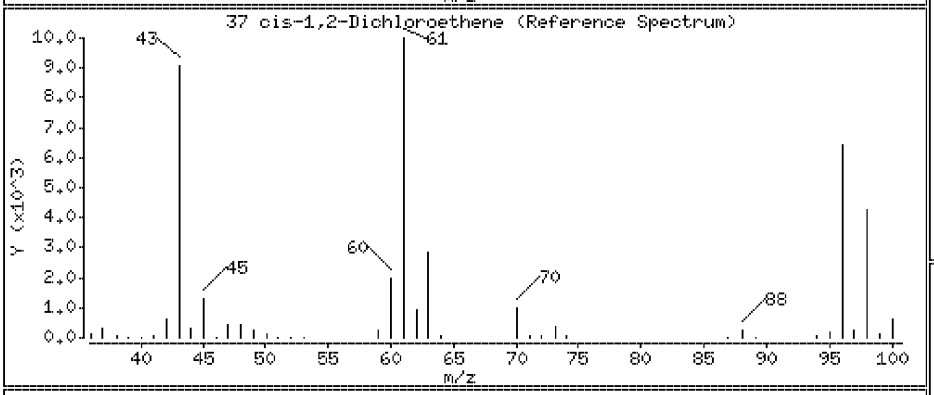
Column diameter: 0.32

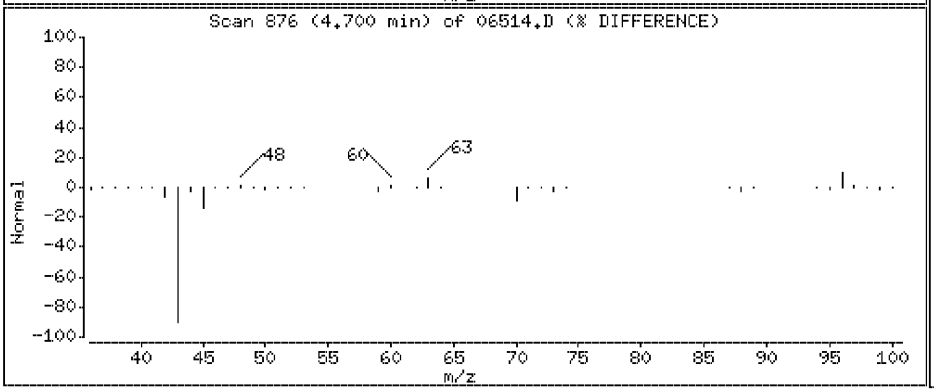
37 cis-1,2-Dichloroethene

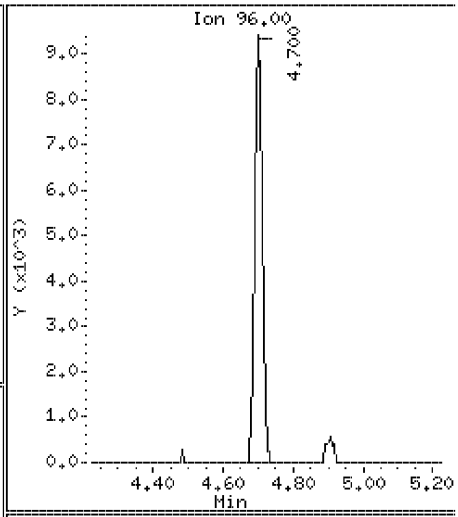
Concentration: 301 ppbv

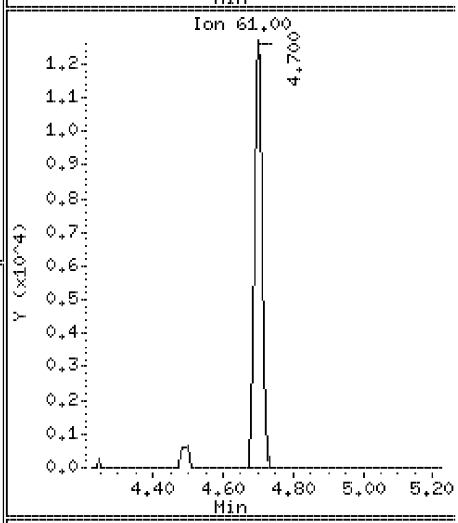


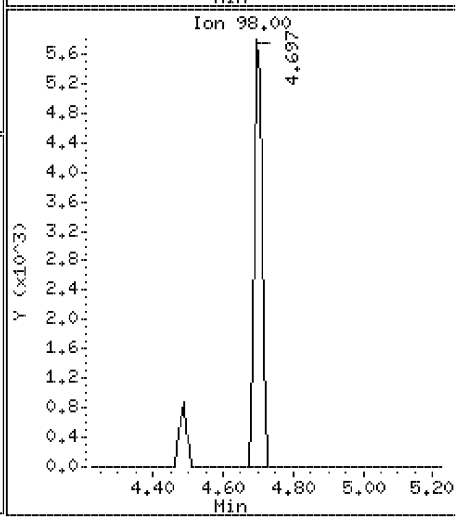












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06514.D

Date : 06-MAR-2017 15:02

Client ID:

Instrument: 10airB.i

Sample Info:

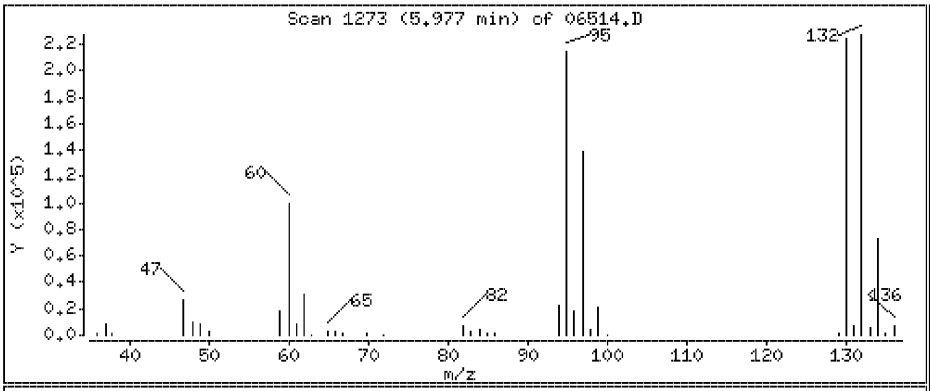
Operator: NCK

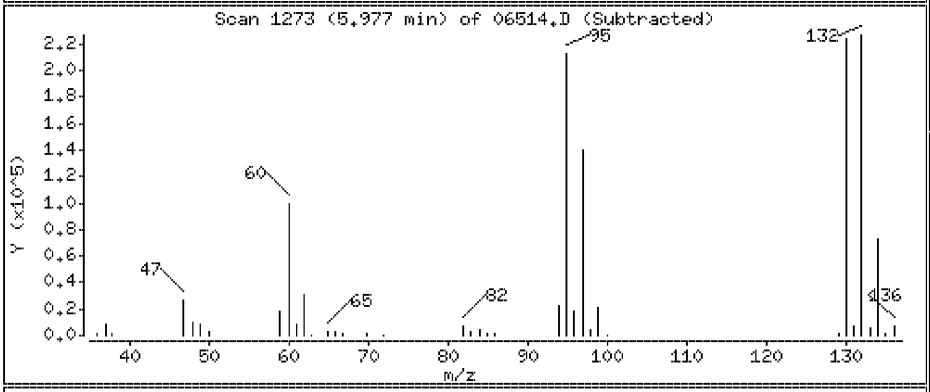
Column phase: J&W DB-5

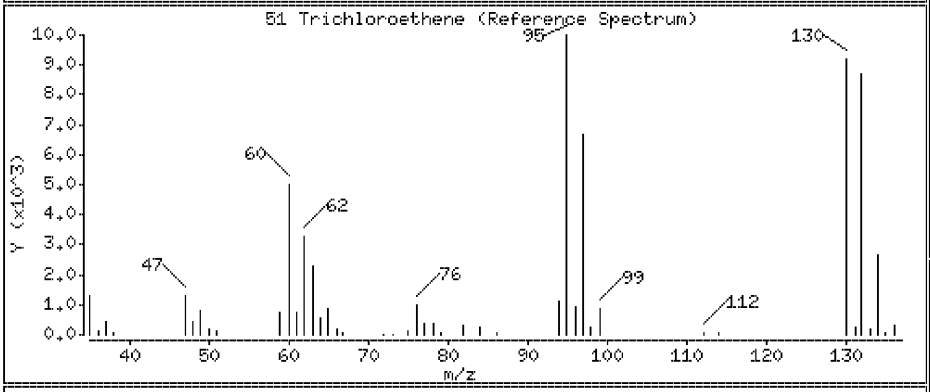
Column diameter: 0.32

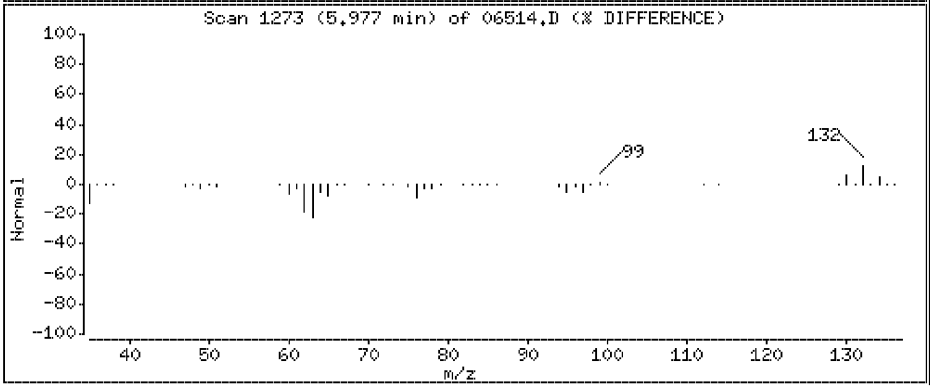
51 Trichloroethene

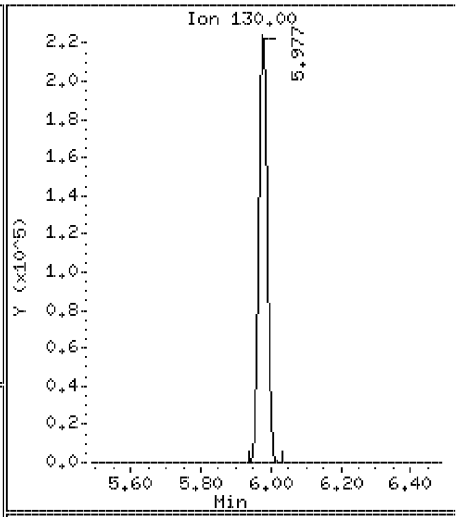
Concentration: 4770 ppbv

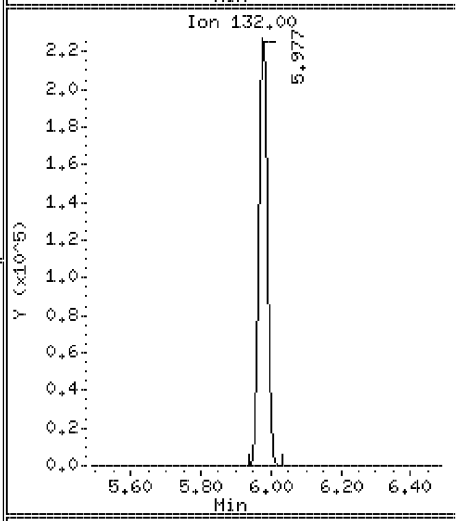


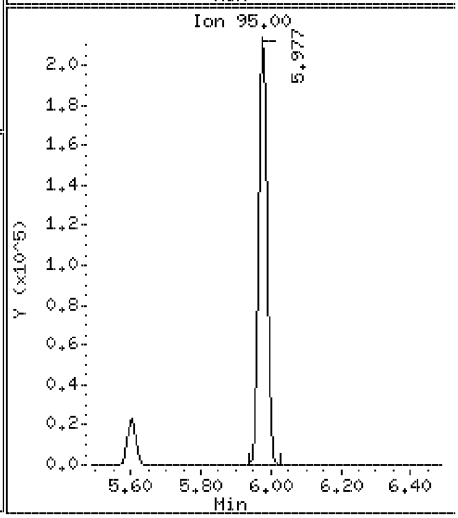












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06514.D

Date : 06-MAR-2017 15:02

Client ID:

Instrument: 10airB.i

Sample Info:

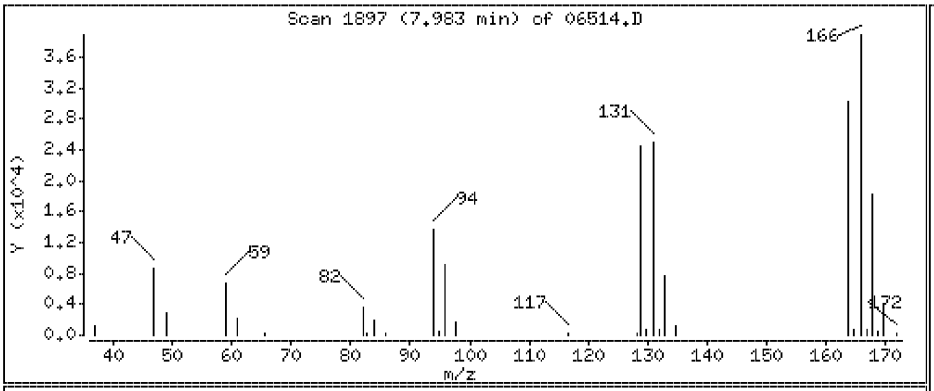
Operator: NCK

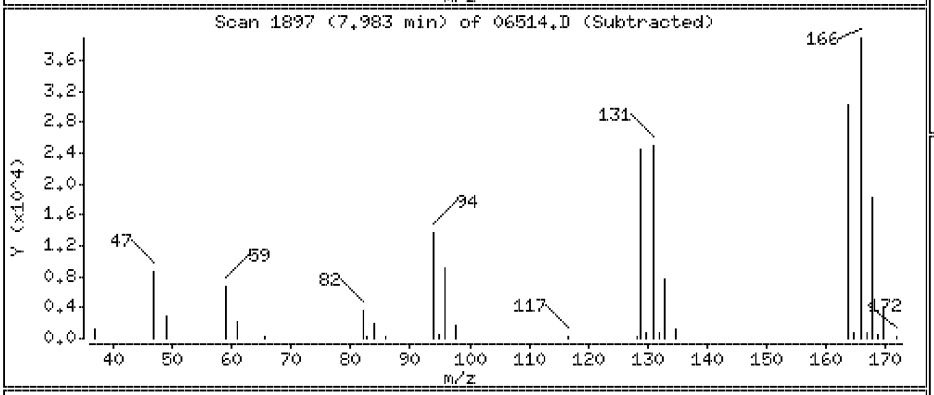
Column phase: J&W DB-5

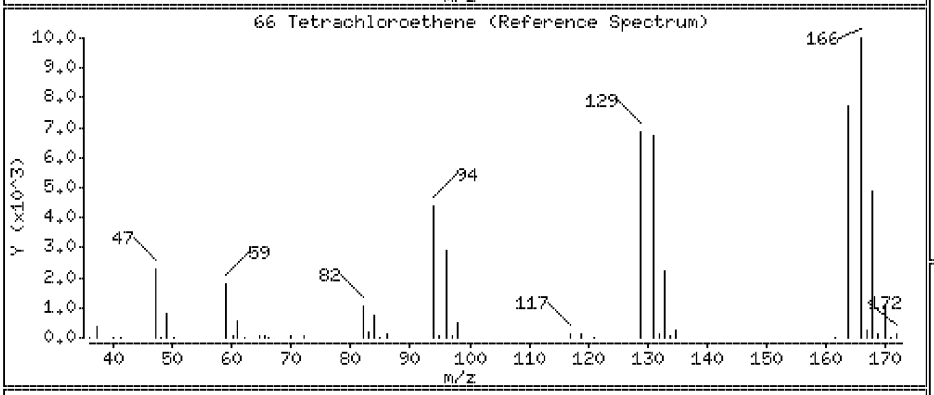
Column diameter: 0.32

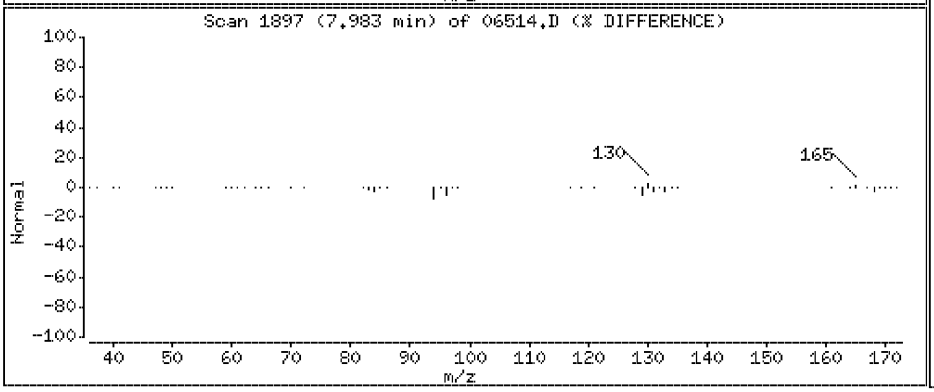
66 Tetrachloroethene

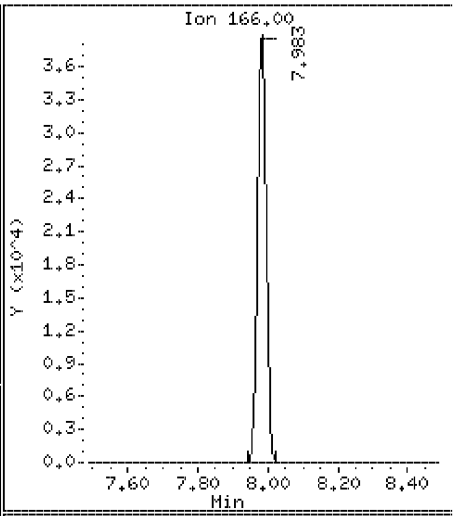
Concentration: 640 ppbv

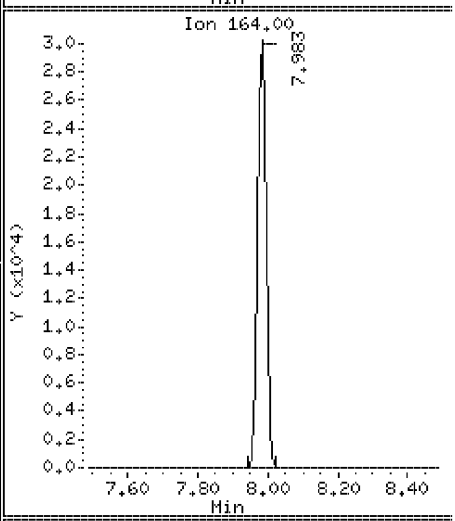


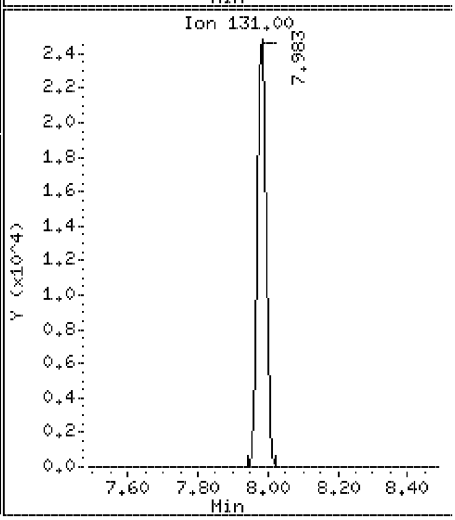












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06514.D
Injection Date: 06-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: 10380193012
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_60_20170223 **Lab ID: 10380193012** Collected: 02/23/17 11:59 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/06/17 01:10	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/06/17 01:10	123-91-1	
Ethylbenzene	**3.3**	ug/m3	1.6	0.78	1.83		03/06/17 01:10	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.8	0.34	1.83		03/06/17 01:10	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/06/17 01:10	87-68-3	
n-Hexane	**2.2**	ug/m3	1.3	0.65	1.83		03/06/17 01:10	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/06/17 01:10	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/06/17 01:10	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/06/17 01:10	79-20-9	
Methylcyclohexane	**0.97J**	ug/m3	1.5	0.44	1.83		03/06/17 01:10	108-87-2	
Methylene Chloride	**5.4J**	ug/m3	6.5	0.99	1.83		03/06/17 01:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/06/17 01:10	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/06/17 01:10	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/06/17 01:10	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/06/17 01:10	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/06/17 01:10	79-34-5	
Tetrachloroethene	**1430**	ug/m3	1.3	0.51	1.83		03/06/17 01:10	127-18-4	
Tetrachloroethene	**4410**	ug/m3	202	81.4	292.8		03/06/17 15:02	127-18-4	A3
Toluene	**18.8**	ug/m3	1.4	0.28	1.83		03/06/17 01:10	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/06/17 01:10	120-82-1	
1,1,1-Trichloroethane	**9.7**	ug/m3	2.0	0.45	1.83		03/06/17 01:10	71-55-6	
1,1,2-Trichloroethane	**6.3**	ug/m3	1.0	0.45	1.83		03/06/17 01:10	79-00-5	
Trichloroethene	**3730**	ug/m3	1.0	0.51	1.83		03/06/17 01:10	79-01-6	
Trichloroethene	**26000**	ug/m3	161	80.8	292.8		03/06/17 15:02	79-01-6	A3
Trichlorofluoromethane	**4.1**	ug/m3	2.1	0.24	1.83		03/06/17 01:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	**279**	ug/m3	2.9	0.55	1.83		03/06/17 01:10	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.8	0.23	1.83		03/06/17 01:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/06/17 01:10	108-67-8	
Vinyl chloride	**1.0**	ug/m3	0.48	0.36	1.83		03/06/17 01:10	75-01-4	
m&p-Xylene	**12.8**	ug/m3	3.2	1.4	1.83		03/06/17 01:10	179601-23-1	
o-Xylene	**3.0**	ug/m3	1.6	0.64	1.83		03/06/17 01:10	95-47-6	

Sample: VP-105_5_20170223 **Lab ID: 10380193013** Collected: 02/23/17 12:50 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**74.9**	ug/m3	5.1	1.8	2.12		03/06/17 01:43	67-64-1	
Allyl chloride	**<0.48**	ug/m3	3.4	0.48	2.12		03/06/17 01:43	107-05-1	
Benzene	**2.7**	ug/m3	0.69	0.26	2.12		03/06/17 01:43	71-43-2	
Bromodichloromethane	**<0.41**	ug/m3	2.9	0.41	2.12		03/06/17 01:43	75-27-4	
Bromoform	**<1.9**	ug/m3	4.5	1.9	2.12		03/06/17 01:43	75-25-2	
Bromomethane	**<0.66**	ug/m3	1.7	0.66	2.12		03/06/17 01:43	74-83-9	
1,3-Butadiene	**<0.37**	ug/m3	0.95	0.37	2.12		03/06/17 01:43	106-99-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_5_20170223 **Lab ID: 10380193013** Collected: 02/23/17 12:50 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Butanone (MEK)	**<0.48**	ug/m3	6.4	0.48	2.12		03/06/17 01:43	78-93-3	
Carbon disulfide	**<0.21**	ug/m3	1.3	0.21	2.12		03/06/17 01:43	75-15-0	
Carbon tetrachloride	**<0.41**	ug/m3	1.4	0.41	2.12		03/06/17 01:43	56-23-5	
Chlorobenzene	**<0.28**	ug/m3	2.0	0.28	2.12		03/06/17 01:43	108-90-7	
Chlorodifluoromethane	**10.6**	ug/m3	1.5	0.59	2.12		03/06/17 01:43	75-45-6	
Chloroethane	**<0.41**	ug/m3	1.1	0.41	2.12		03/06/17 01:43	75-00-3	
Chloroform	**<0.40**	ug/m3	1.1	0.40	2.12		03/06/17 01:43	67-66-3	
Chloromethane	**1.8**	ug/m3	0.89	0.23	2.12		03/06/17 01:43	74-87-3	
Chloropentafluoroethane	**<6.8**	ug/m3	6.8	6.8	2.12		03/06/17 01:43	76-15-3	
Cyclohexane	**9.8**	ug/m3	1.5	0.67	2.12		03/06/17 01:43	110-82-7	
1,2-Dibromo-3-chloropropane	**<10.4**	ug/m3	10.4	10.4	2.12		03/06/17 01:43	96-12-8	
Dibromochloromethane	**<1.8**	ug/m3	3.7	1.8	2.12		03/06/17 01:43	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.3	1.6	2.12		03/06/17 01:43	106-93-4	
1,2-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/06/17 01:43	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/06/17 01:43	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/06/17 01:43	106-46-7	
Dichlorodifluoromethane	**3.8**	ug/m3	2.1	1.0	2.12		03/06/17 01:43	75-71-8	
1,1-Dichloroethane	**<0.33**	ug/m3	1.7	0.33	2.12		03/06/17 01:43	75-34-3	
1,2-Dichloroethane	**<0.43**	ug/m3	0.87	0.43	2.12		03/06/17 01:43	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/m3	1.7	0.50	2.12		03/06/17 01:43	75-35-4	
cis-1,2-Dichloroethene	**2.2**	ug/m3	1.7	0.52	2.12		03/06/17 01:43	156-59-2	
trans-1,2-Dichloroethene	**<0.81**	ug/m3	1.7	0.81	2.12		03/06/17 01:43	156-60-5	
1,2-Dichloropropane	**<0.57**	ug/m3	2.0	0.57	2.12		03/06/17 01:43	78-87-5	
cis-1,3-Dichloropropene	**<0.78**	ug/m3	2.0	0.78	2.12		03/06/17 01:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.55**	ug/m3	2.0	0.55	2.12		03/06/17 01:43	10061-02-6	
Dichlorotetrafluoroethane	**<0.66**	ug/m3	3.0	0.66	2.12		03/06/17 01:43	76-14-2	
Freon 123	**<6.7**	ug/m3	6.7	6.7	2.12		03/06/17 01:43	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.75**	ug/m3	7.8	0.75	2.12		03/06/17 01:43	123-91-1	
Ethylbenzene	**11.7**	ug/m3	1.9	0.90	2.12		03/06/17 01:43	100-41-4	
4-Ethyltoluene	**2.1J**	ug/m3	2.1	0.40	2.12		03/06/17 01:43	622-96-8	
Hexachloro-1,3-butadiene	**<1.4**	ug/m3	4.6	1.4	2.12		03/06/17 01:43	87-68-3	
n-Hexane	**41.1**	ug/m3	1.5	0.76	2.12		03/06/17 01:43	110-54-3	
2-Hexanone	**<0.87**	ug/m3	8.8	0.87	2.12		03/06/17 01:43	591-78-6	
Isopropylbenzene (Cumene)	**<0.29**	ug/m3	5.3	0.29	2.12		03/06/17 01:43	98-82-8	
Methyl acetate	**<3.3**	ug/m3	3.3	3.3	2.12		03/06/17 01:43	79-20-9	
Methylcyclohexane	**4.6**	ug/m3	1.7	0.51	2.12		03/06/17 01:43	108-87-2	
Methylene Chloride	**515**	ug/m3	7.5	1.1	2.12		03/06/17 01:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.46**	ug/m3	8.8	0.46	2.12		03/06/17 01:43	108-10-1	
Methyl-tert-butyl ether	**<0.64**	ug/m3	7.8	0.64	2.12		03/06/17 01:43	1634-04-4	
2-Propanol	**12.0**	ug/m3	5.3	0.51	2.12		03/06/17 01:43	67-63-0	
Styrene	**2.0**	ug/m3	1.8	0.41	2.12		03/06/17 01:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.70**	ug/m3	1.5	0.70	2.12		03/06/17 01:43	79-34-5	
Tetrachloroethene	**10.2**	ug/m3	1.5	0.59	2.12		03/06/17 01:43	127-18-4	
Toluene	**52.9**	ug/m3	1.6	0.33	2.12		03/06/17 01:43	108-88-3	
1,2,4-Trichlorobenzene	**<1.9**	ug/m3	8.0	1.9	2.12		03/06/17 01:43	120-82-1	
1,1,1-Trichloroethane	**<0.52**	ug/m3	2.4	0.52	2.12		03/06/17 01:43	71-55-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D
Report Date: 07-Mar-2017 08:30

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06433.D
Lab Smp Id: 10380193013
Inj Date : 06-MAR-2017 01:43
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 33
Dil Factor: 2.12000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.120	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.018	2.989	(0.539)	4757	1.38776	2.94(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.050	3.021	(0.545)	14703	0.35930	0.762(M)	
6	Chloromethane	50	3.147	3.124	(0.562)	5428	0.39725	0.842	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.546	3.542	(0.633)	180279	41.2564	87.5	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.584	3.578	(0.640)	31759	2.55025	5.41	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.658	3.655	(0.653)	5887	0.18056	0.383	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.716	3.713	(0.664)	276231	14.6394	31.0	
19	Isopropyl Alcohol	45	3.767	3.764	(0.673)	43533	2.26218	4.80(MH)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.928	3.934	(0.701)	2301	0.09346	0.198	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D
Report Date: 07-Mar-2017 08:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.999	3.992	(0.714)	916411	68.8104	146	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.481	(0.801)	357394	9.44588	9.45	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.581	4.578	(0.818)	102575	5.40893	11.5(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.713	4.713	(0.842)	17233	0.70607	1.50(Q)	
	37 cis-1,2-Dichloroethene	96	4.709	4.722	(0.841)	3122	0.26264	0.557(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.459	5.465	(0.975)	15132	0.39454	0.836	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.484	5.484	(0.979)	25463	1.32622	2.81(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1189236	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.877	5.889	(1.049)	8965	0.41832	0.887	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.976	5.986	(1.067)	86040	4.30601	9.13	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	6.423	6.430	(1.147)	5654	0.53281	1.13	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1034781	9.72174	9.72	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.147	7.153	(1.276)	312710	6.51053	13.8	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	7.578	7.584	(0.877)	7819	0.28168	0.597(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	19675	0.69818	1.48	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	811554	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.934	(1.034)	74335	1.24535	2.64	
	70 m&p-Xylene	91	9.073	9.082	(1.050)	182233	3.88972	8.25	
	71 n-Nonane	43	9.468	9.468	(1.096)	33206	1.37418	2.91	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.503	9.507	(1.100)	5869	0.21897	0.464	
	74 o-Xylene	91	9.577	9.581	(1.109)	52801	1.10780	2.35	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D
Report Date: 07-Mar-2017 08:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.909	10.912	(1.263)	6947	0.19609	0.416	
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.274)	4705	0.10050	0.213	
80	n-Decane	57	11.391	11.378	(2.034)	78603	2.76287	5.86(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.507	11.513	(1.332)	16173	0.33548	0.711	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	468560	10.4810	10.5	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	11.986	11.989	(1.387)	51753	0.79916	1.69	
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.156	14.169	(1.639)	4172	0.46366	0.983	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D
Report Date: 07-Mar-2017 08:30

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06433.D
Lab Smp Id: 10380193013
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

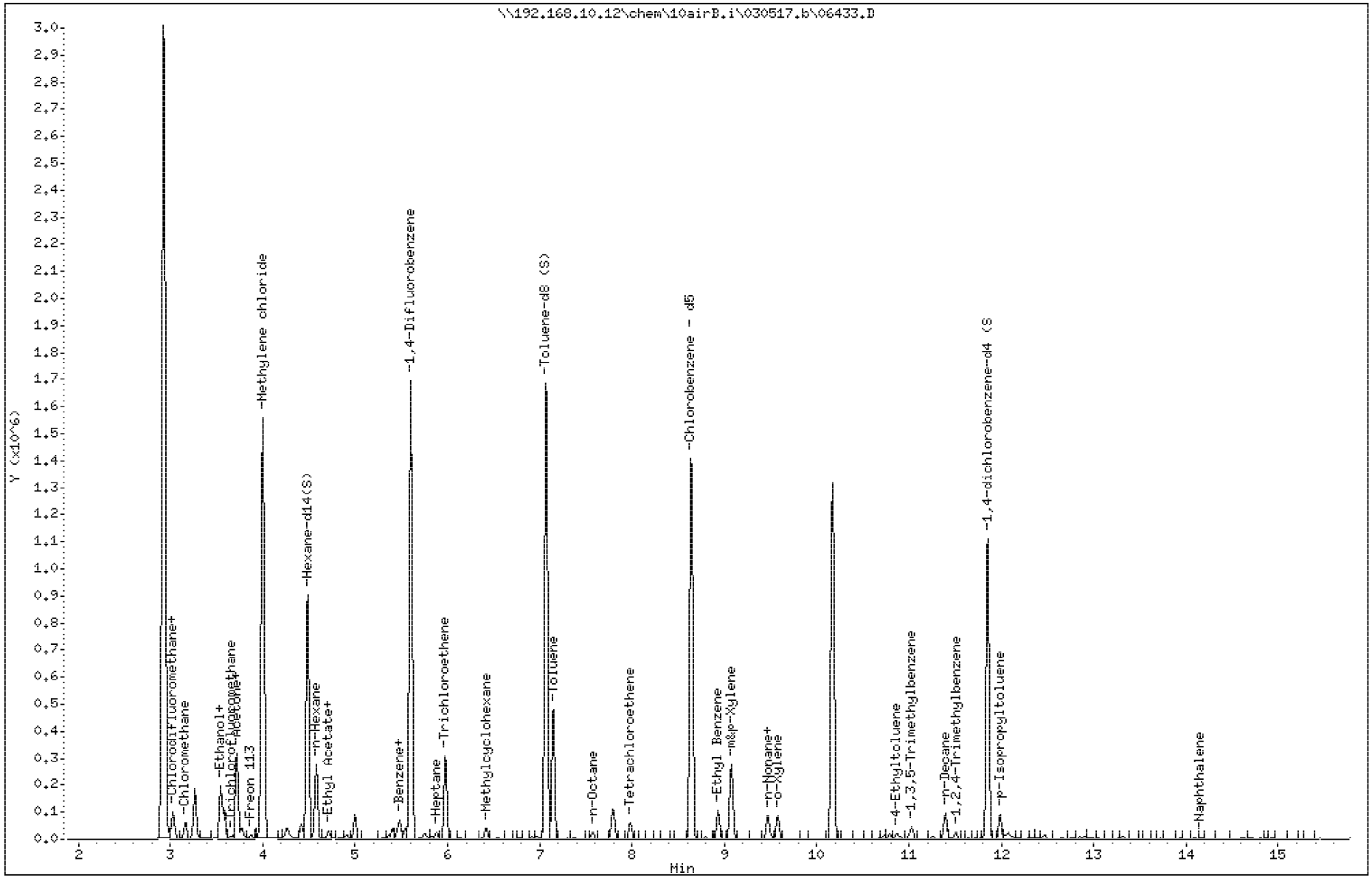
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1189236	-15.90
67 Chlorobenzene - d	951026	570616	1331436	811554	-14.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D
Date : 06-MAR-2017 01:43
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

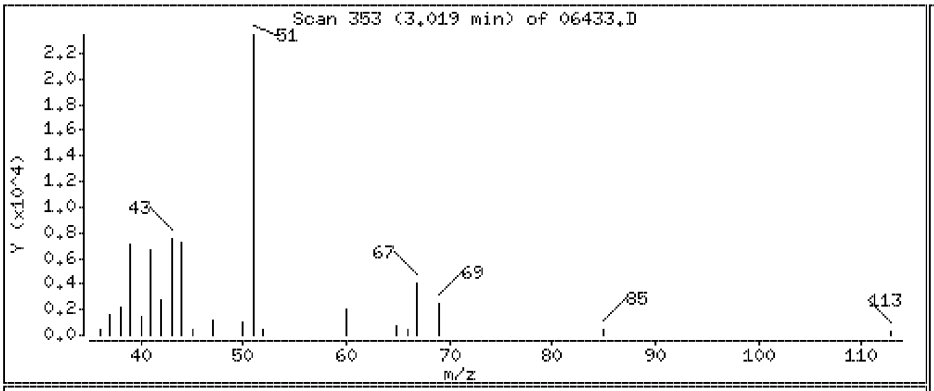
Operator: NCK

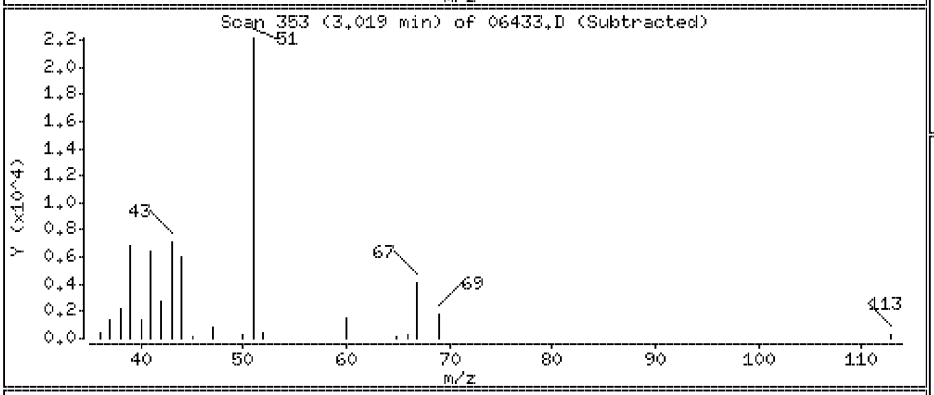
Column phase: J&W DB-5

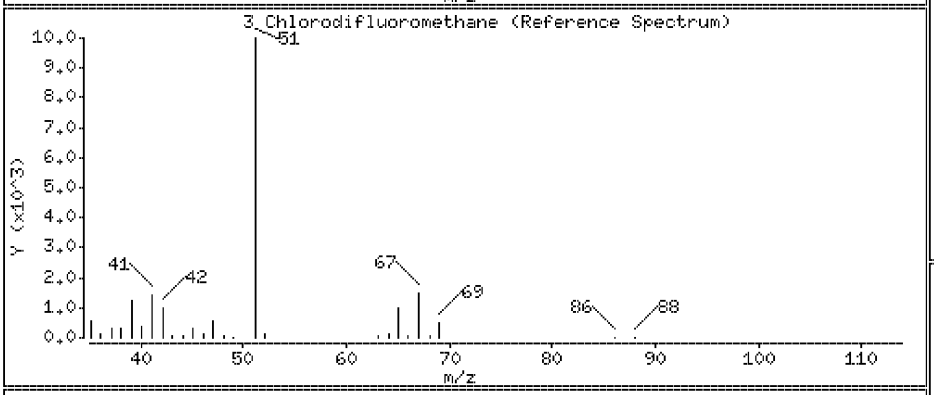
Column diameter: 0.32

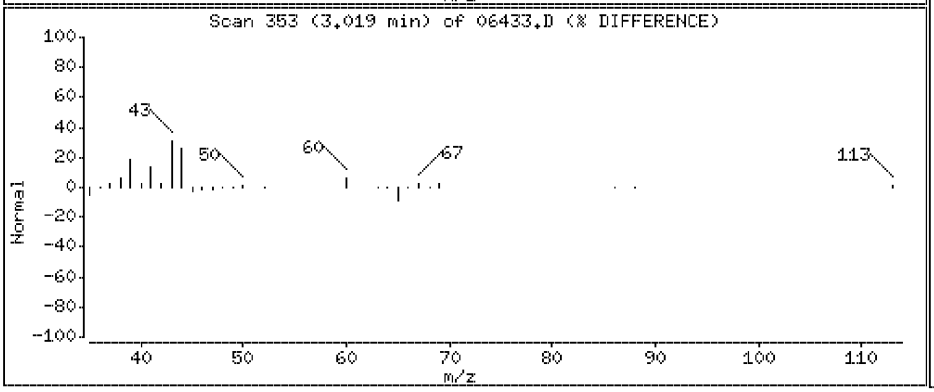
3 Chlorodifluoromethane

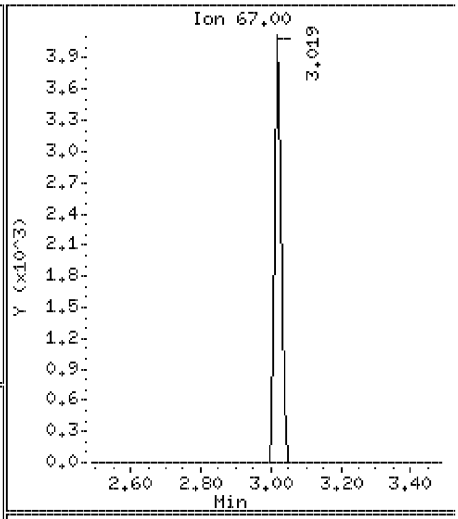
Concentration: 2.94 ppbv

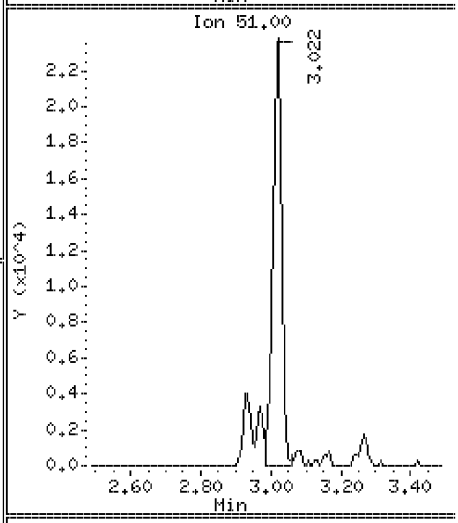


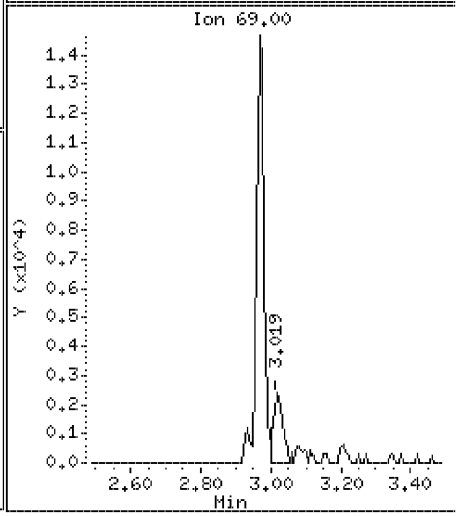












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

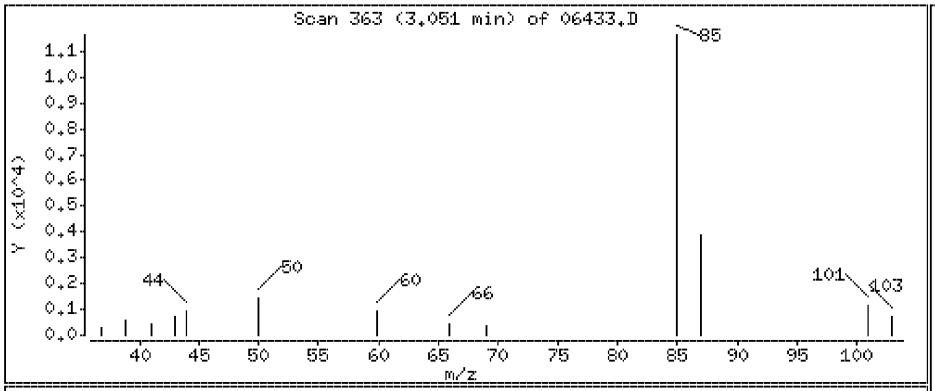
Operator: NCK

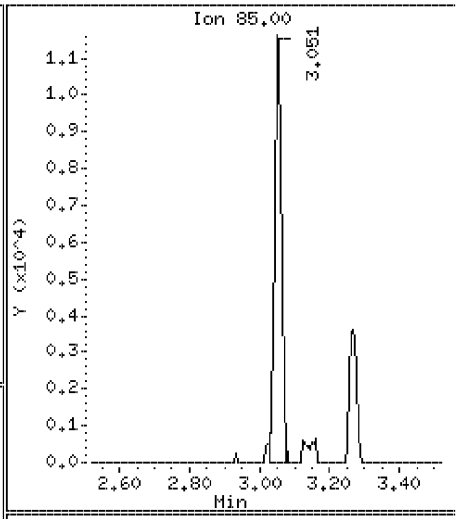
Column phase: J&W DB-5

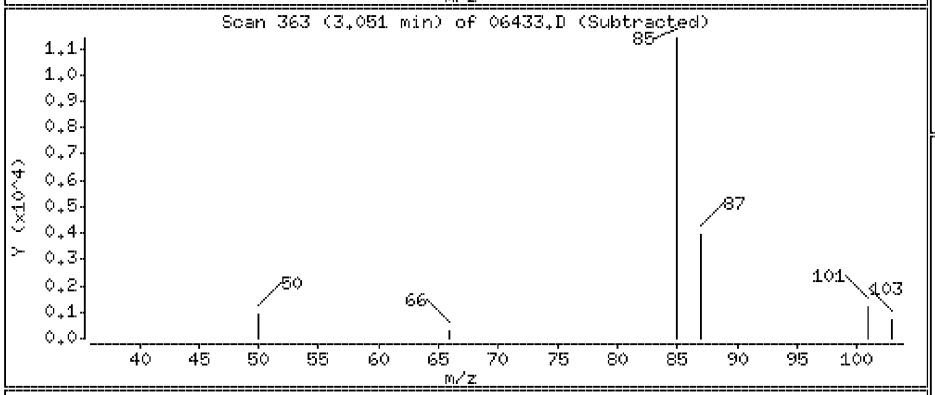
Column diameter: 0.32

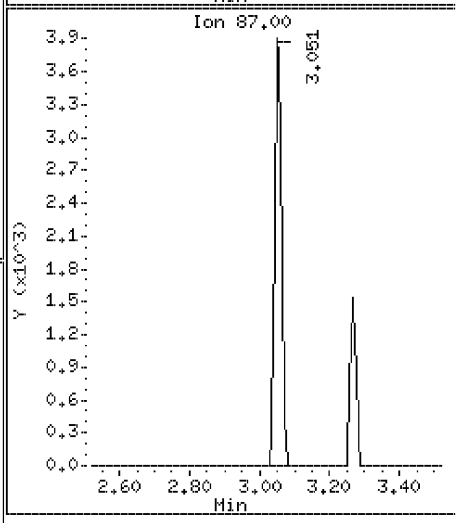
5 Dichlorodifluoromethane

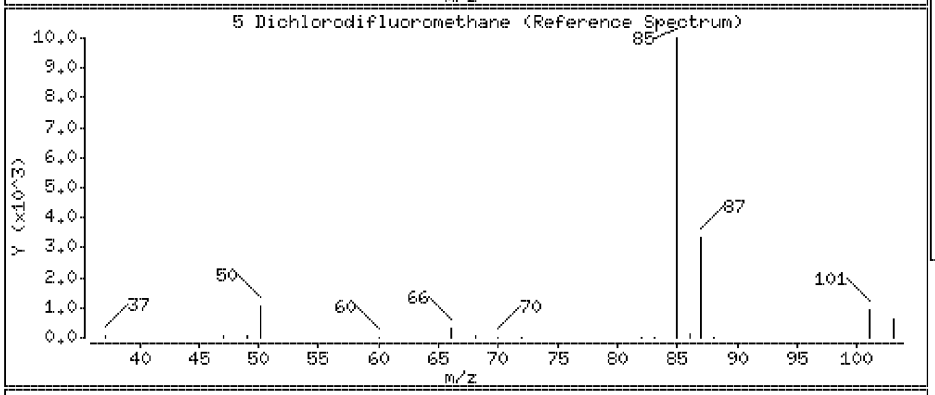
Concentration: 0.762 ppbv

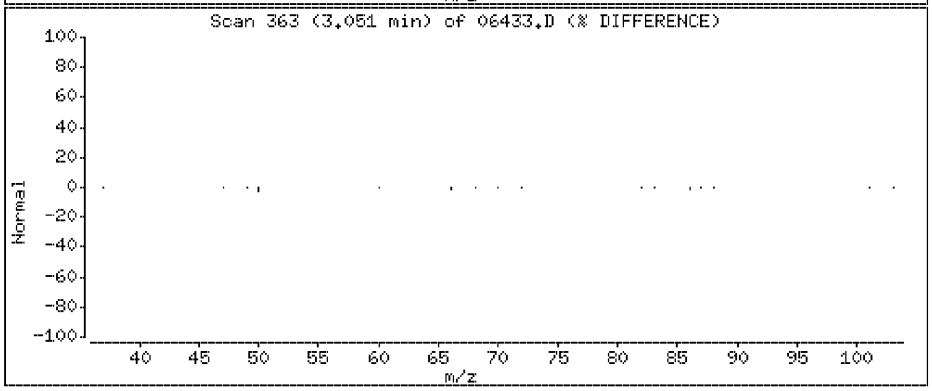












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

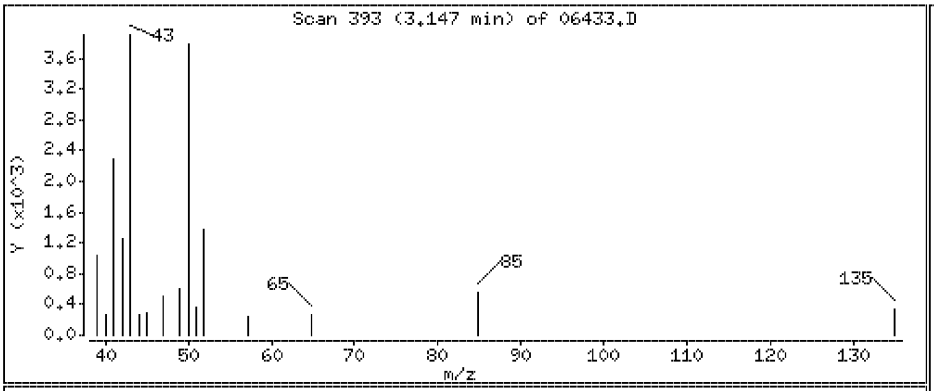
Operator: NCK

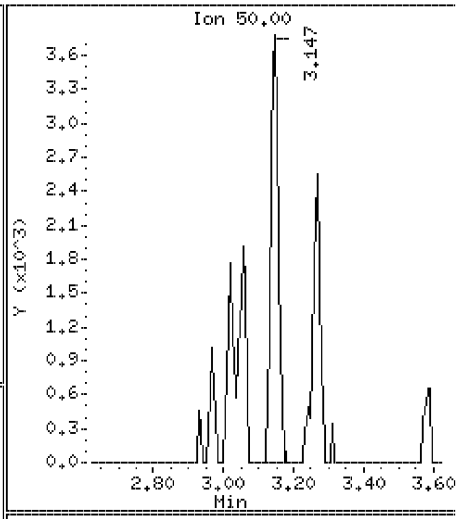
Column phase: J&W DB-5

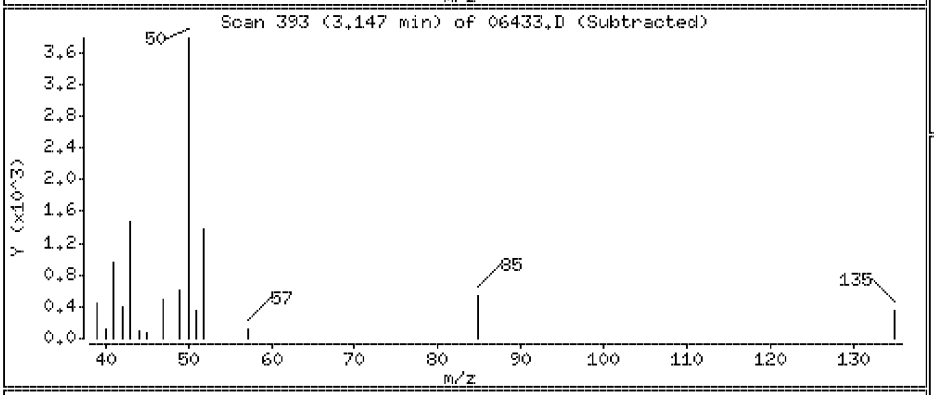
Column diameter: 0.32

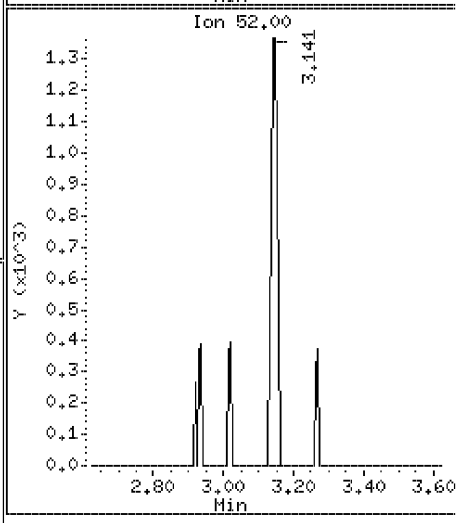
6 Chloromethane

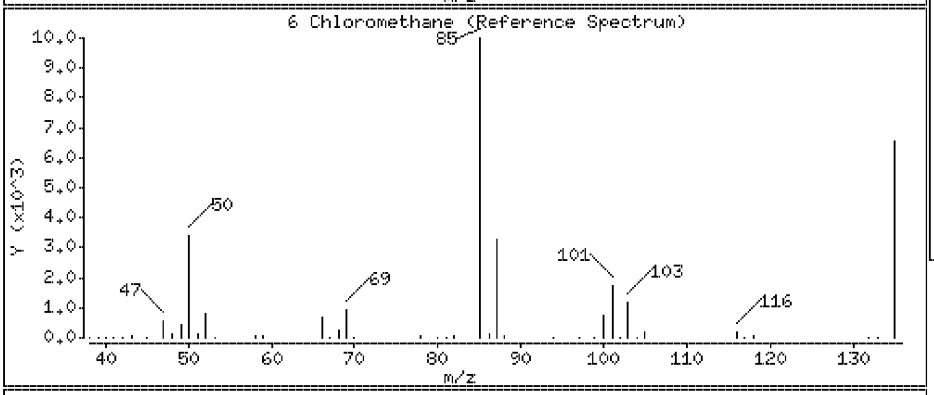
Concentration: 0.842 ppbv

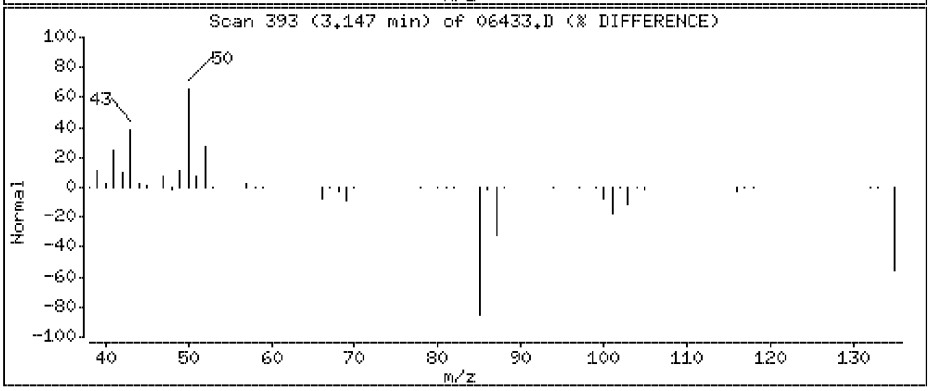












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

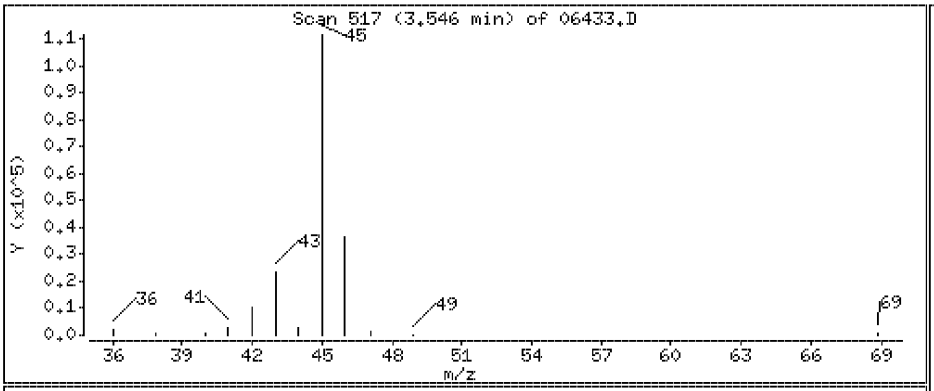
Operator: NCK

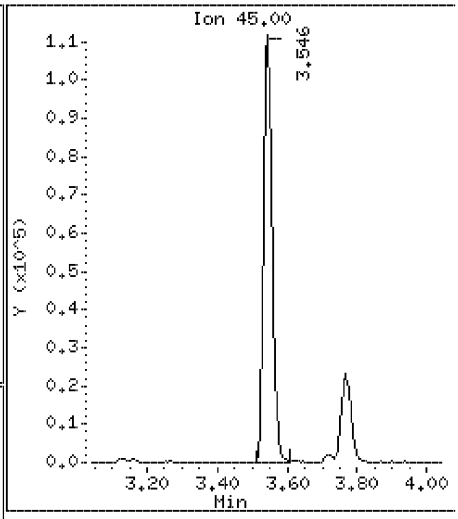
Column phase: J&W DB-5

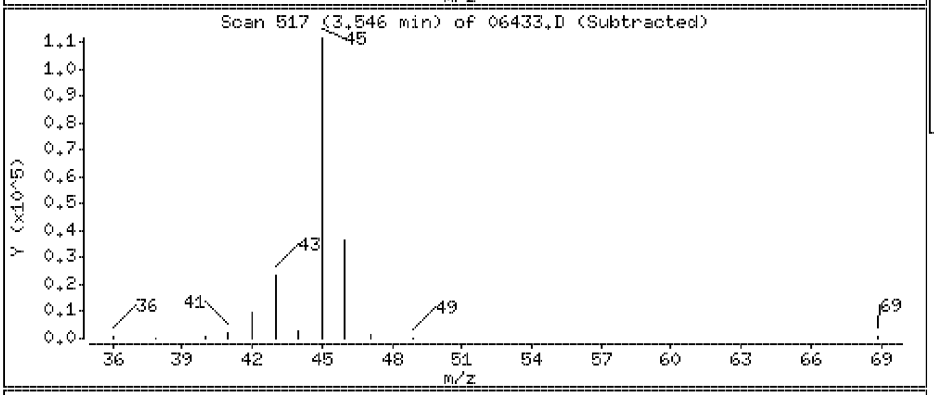
Column diameter: 0.32

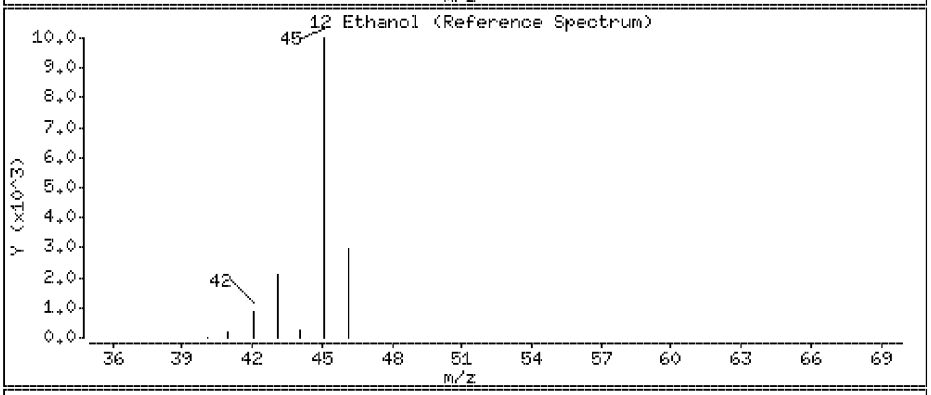
12 Ethanol

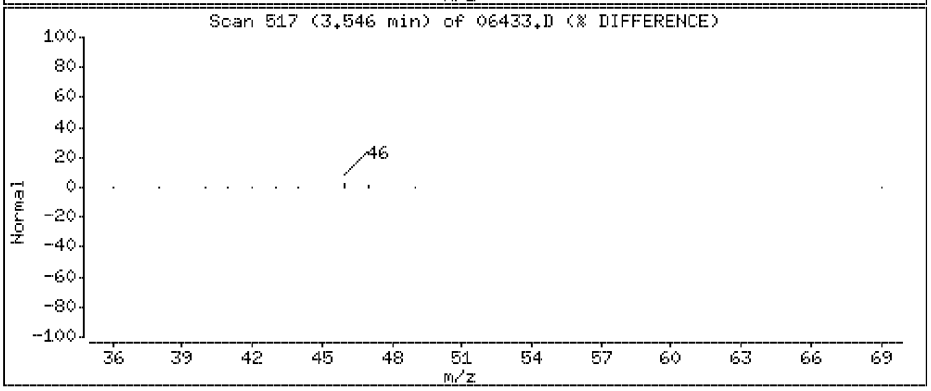
Concentration: 87.5 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

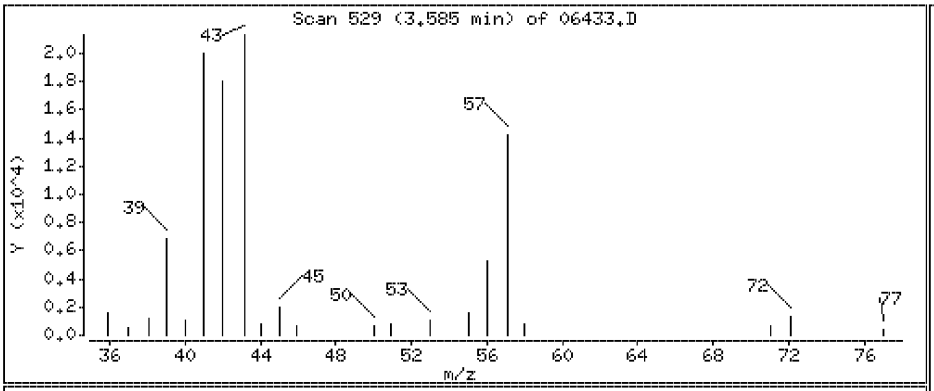
Operator: NCK

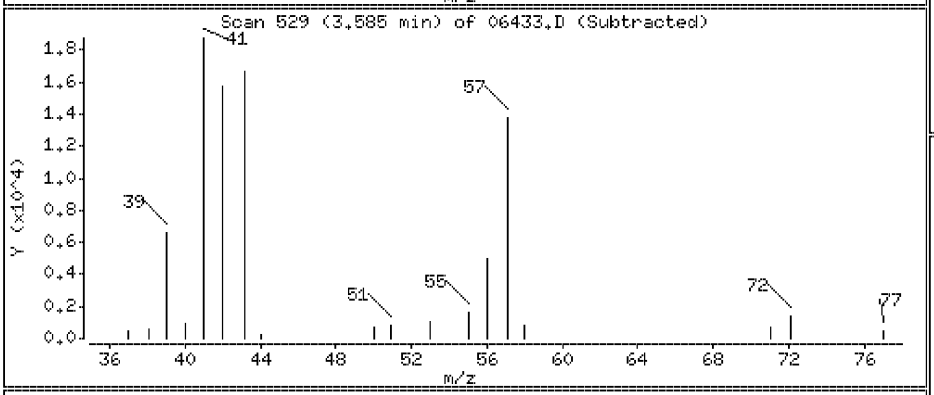
Column phase: J&W DB-5

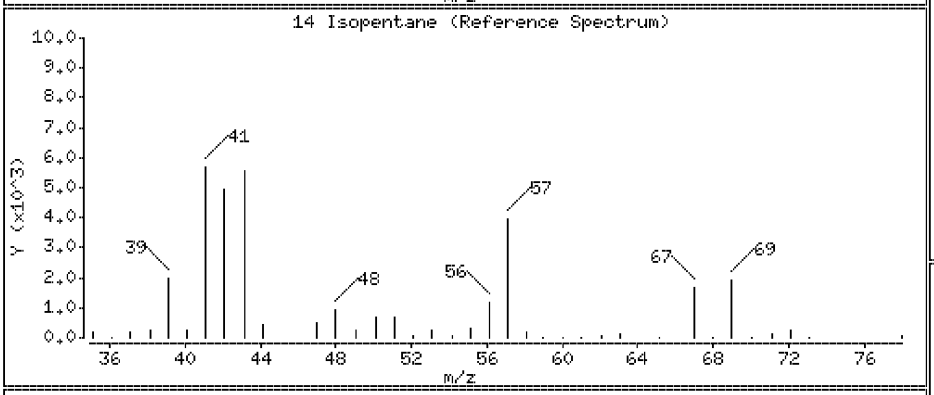
Column diameter: 0.32

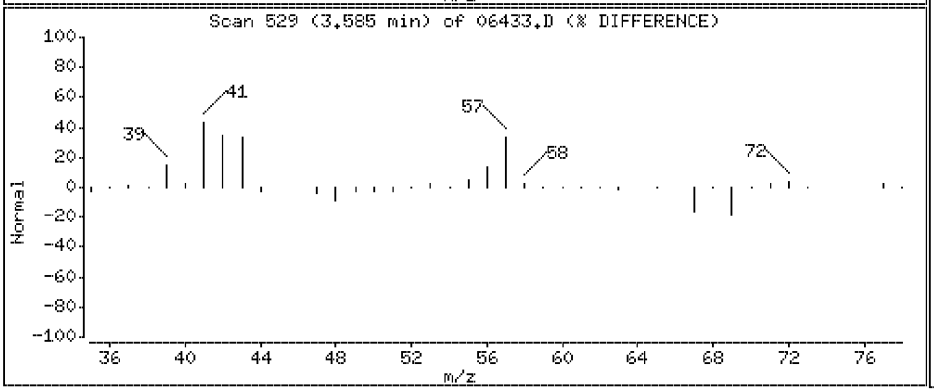
14 Isopentane

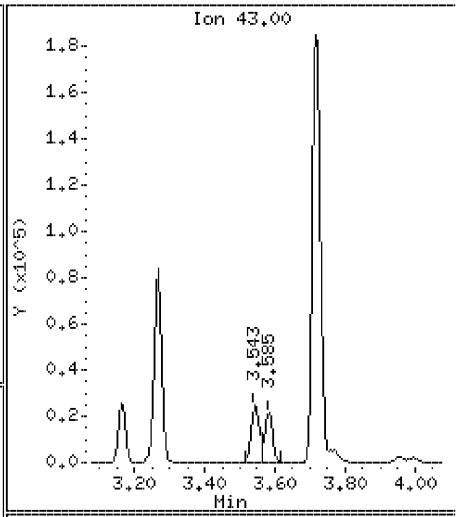
Concentration: 5.41 ppbv

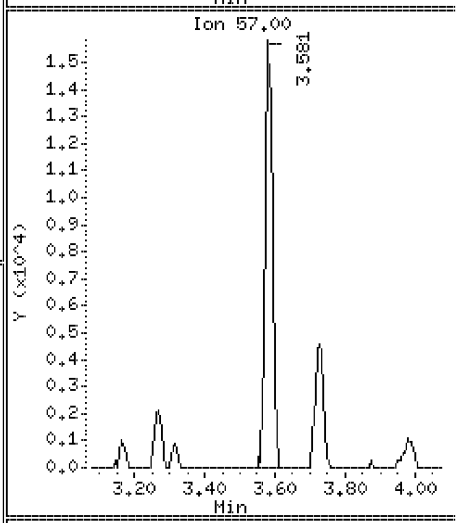


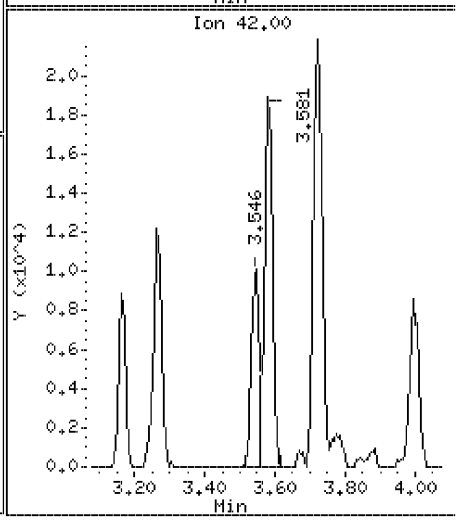












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

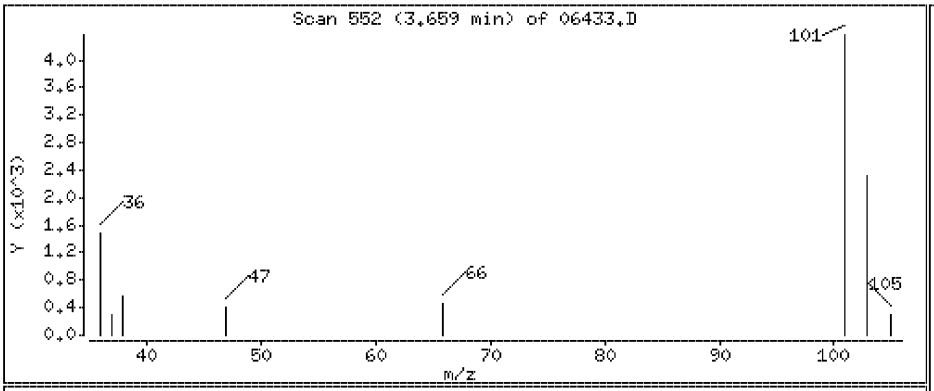
Operator: NCK

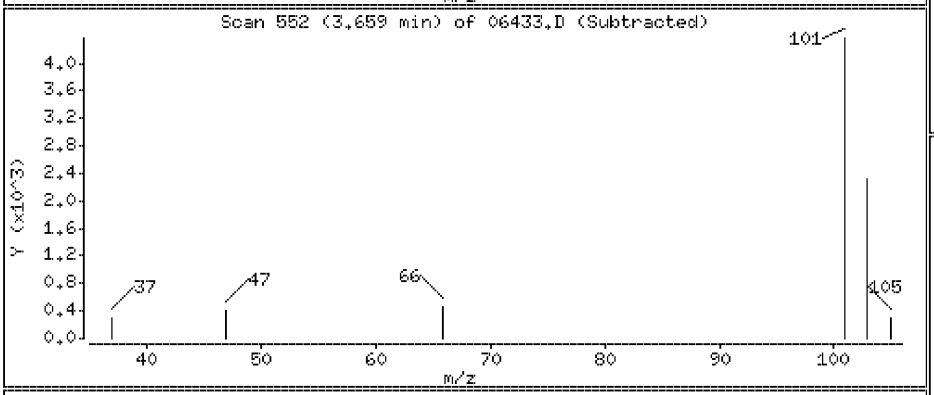
Column phase: J&W DB-5

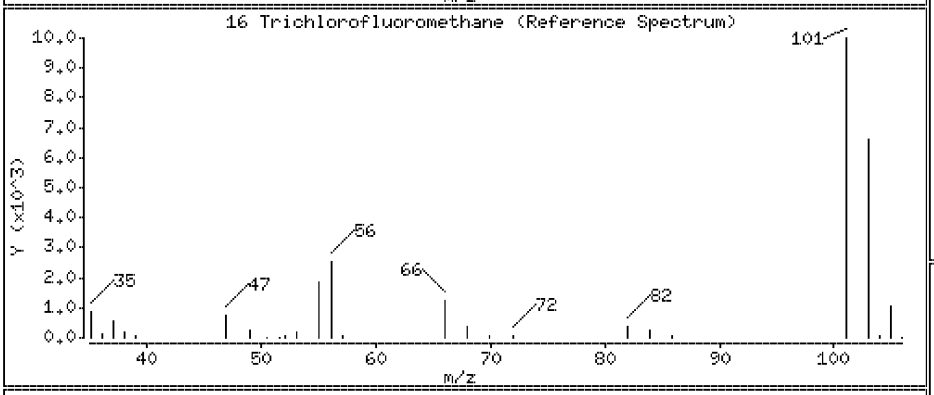
Column diameter: 0.32

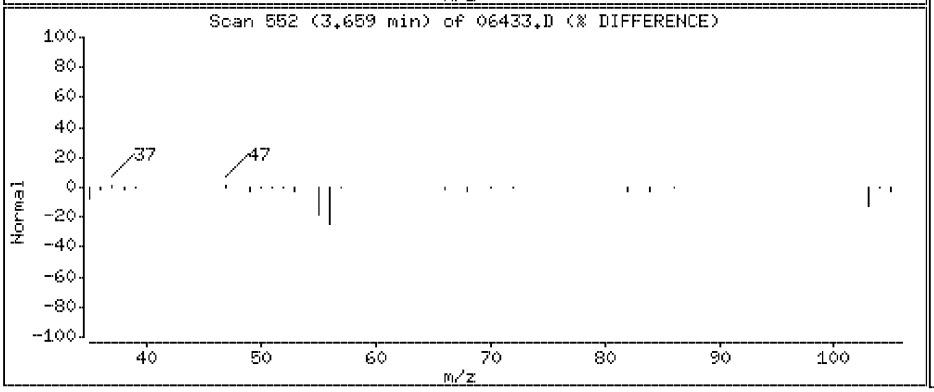
16 Trichlorofluoromethane

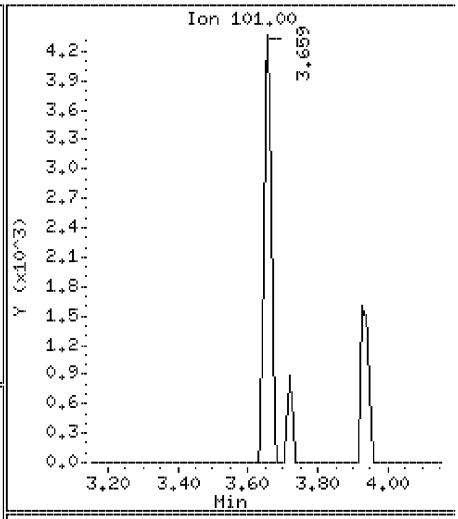
Concentration: 0.383 ppbv

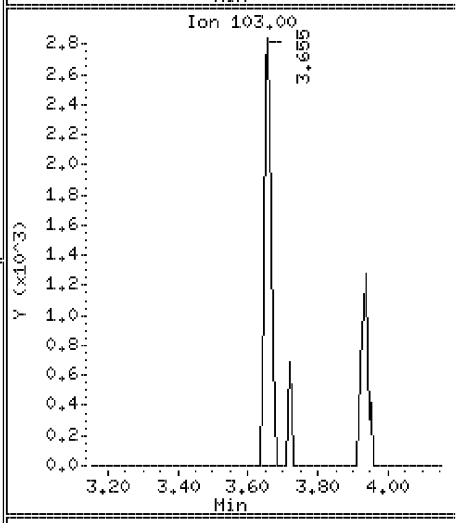


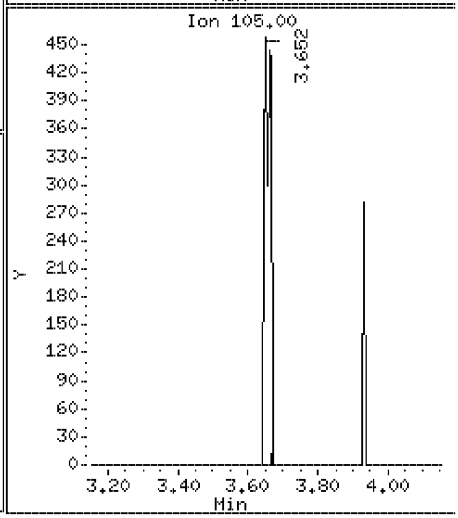












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

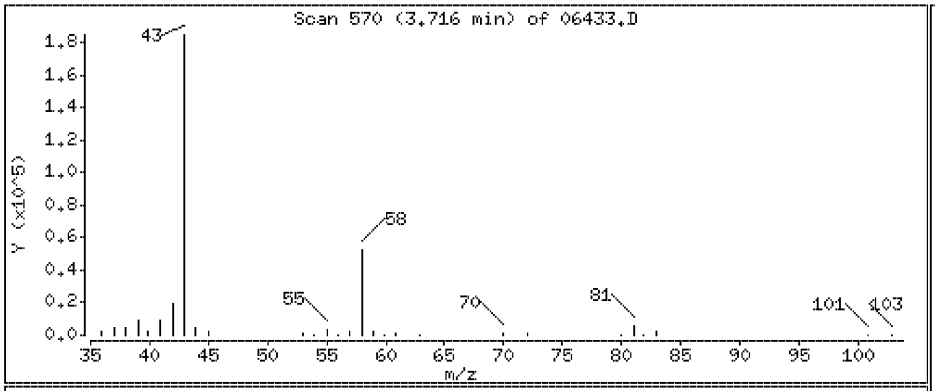
Operator: NCK

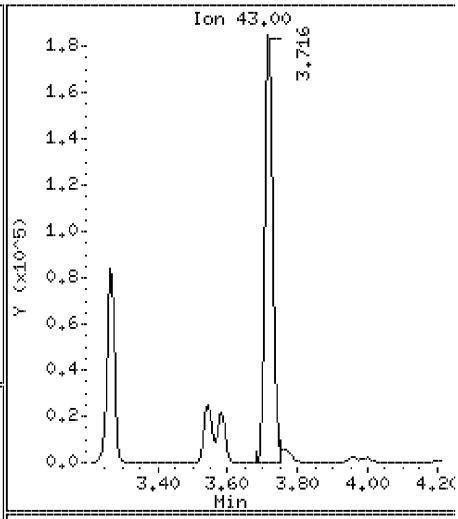
Column phase: J&W DB-5

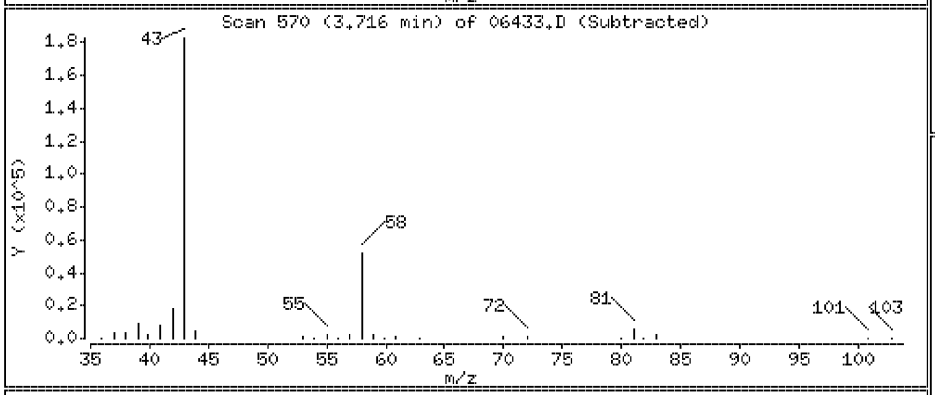
Column diameter: 0.32

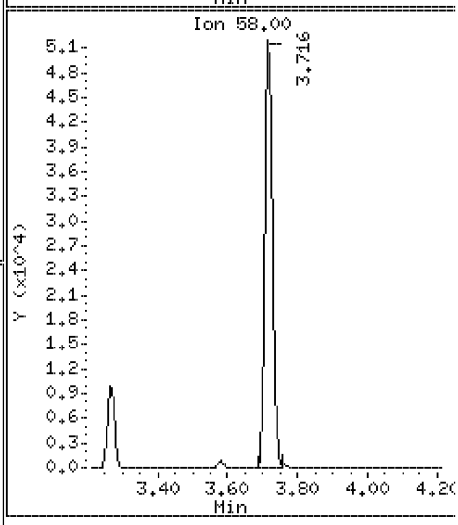
18 Acetone

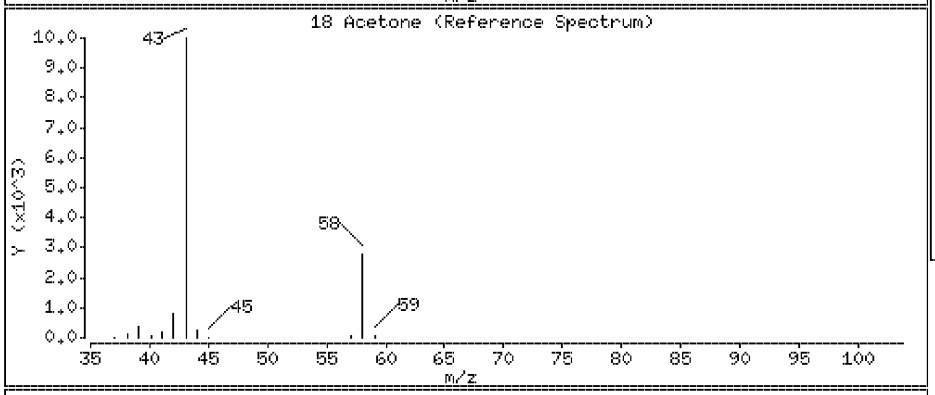
Concentration: 31.0 ppbv

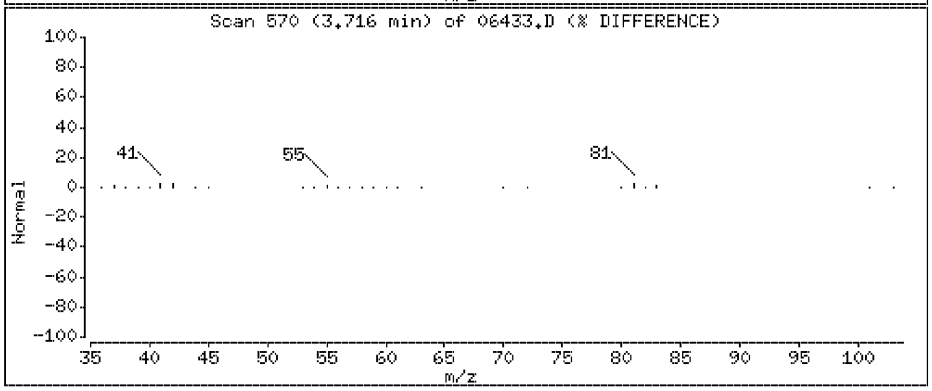












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

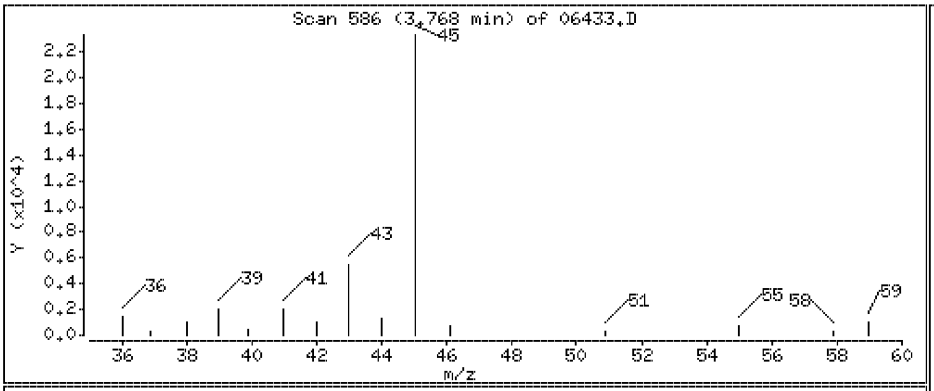
Operator: NCK

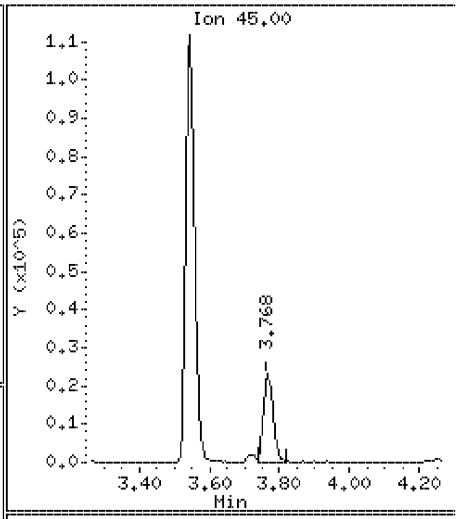
Column phase: J&W DB-5

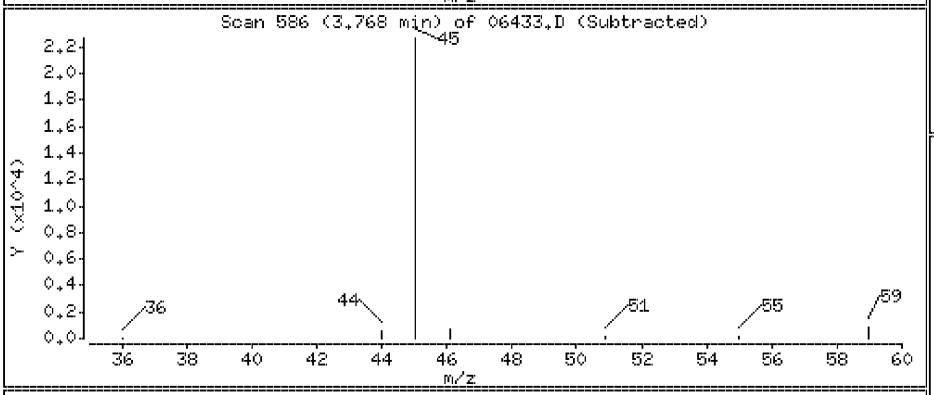
Column diameter: 0.32

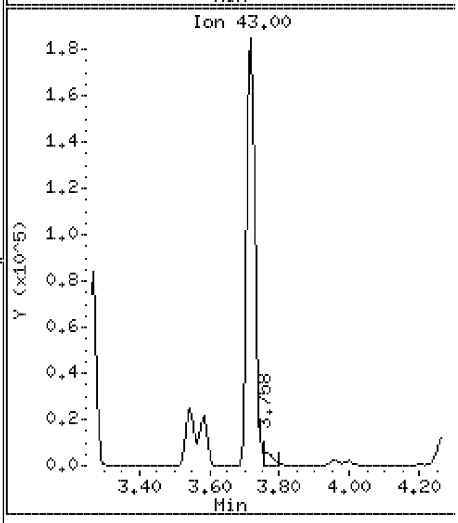
19 Isopropyl Alcohol

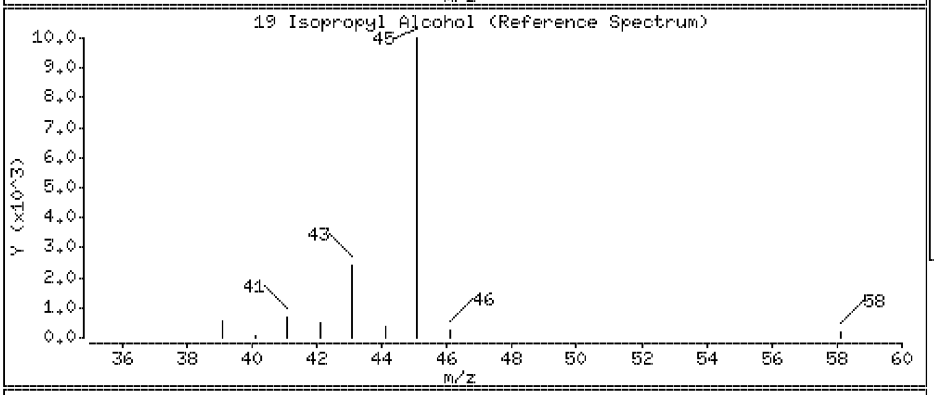
Concentration: 4.80 ppbv

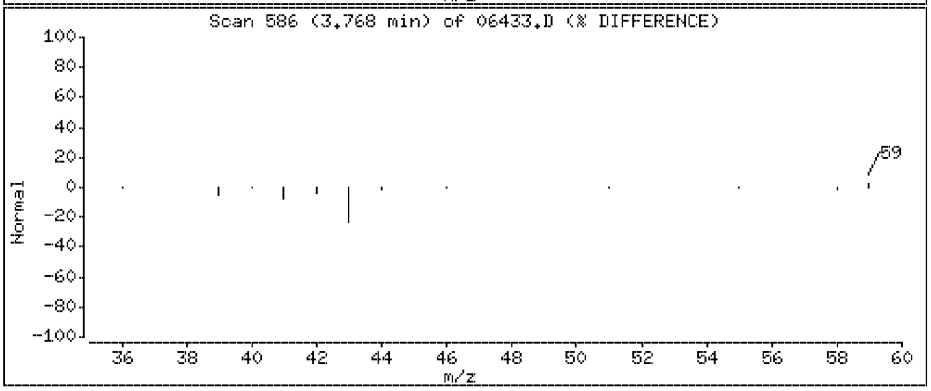












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

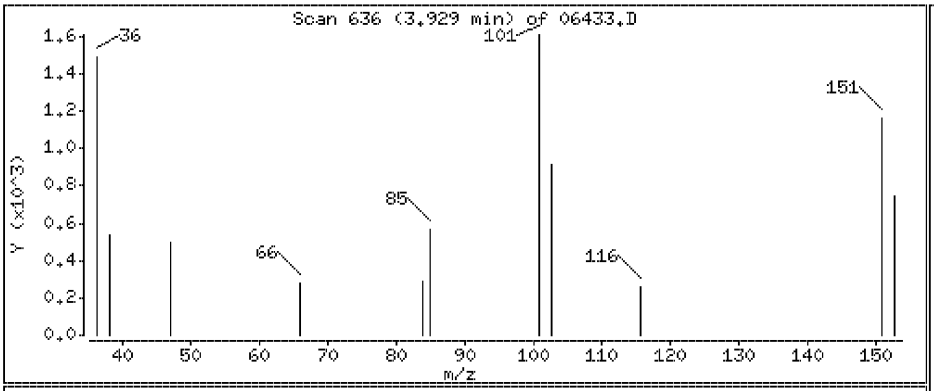
Operator: NCK

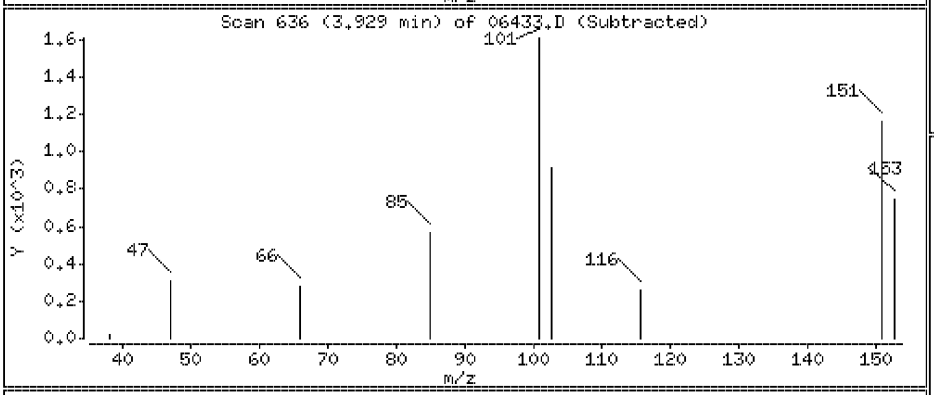
Column phase: J&W DB-5

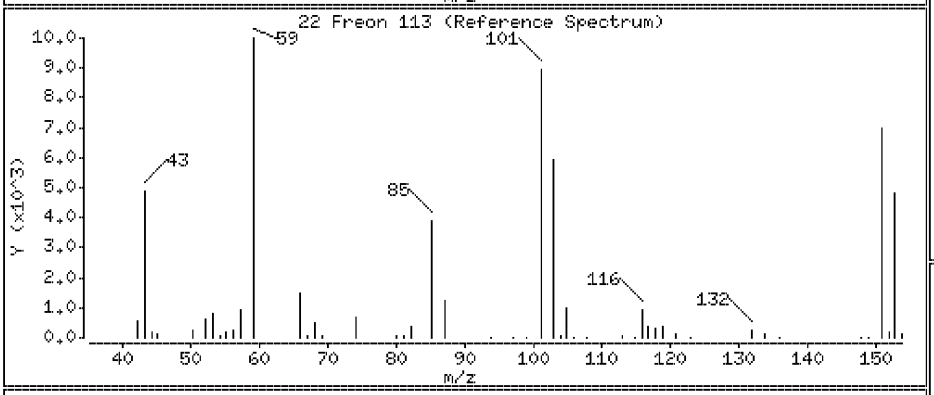
Column diameter: 0.32

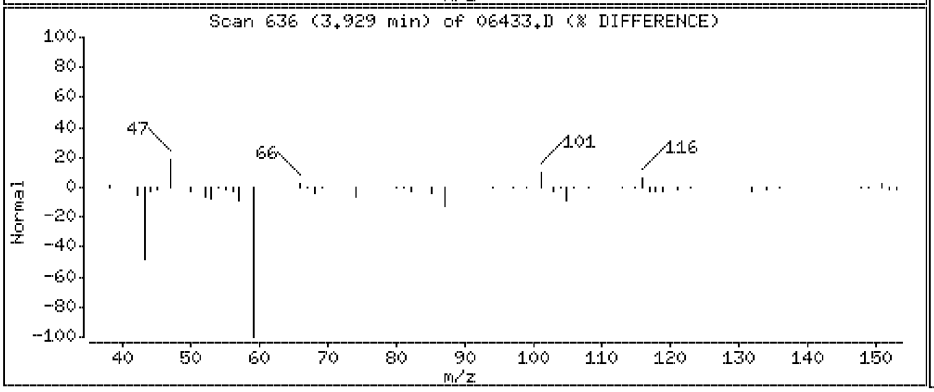
22 Freon 113

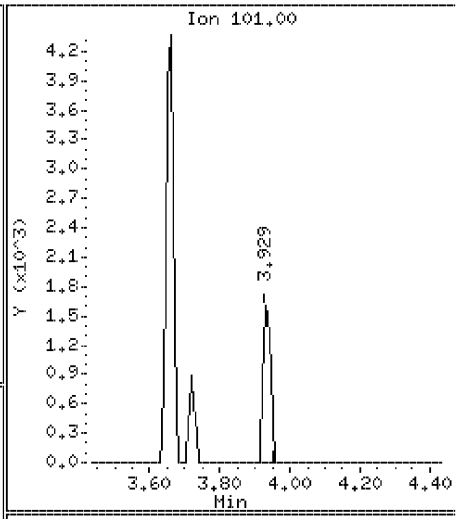
Concentration: 0.198 ppbv

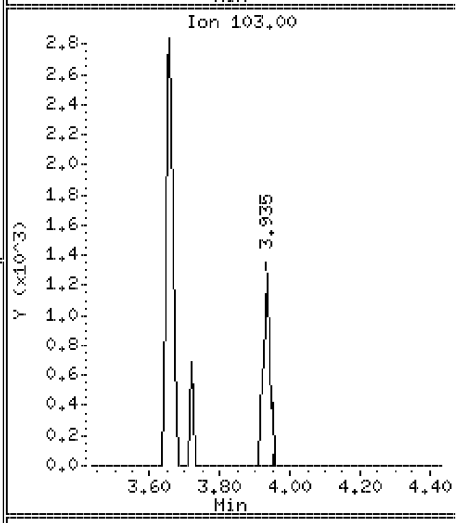


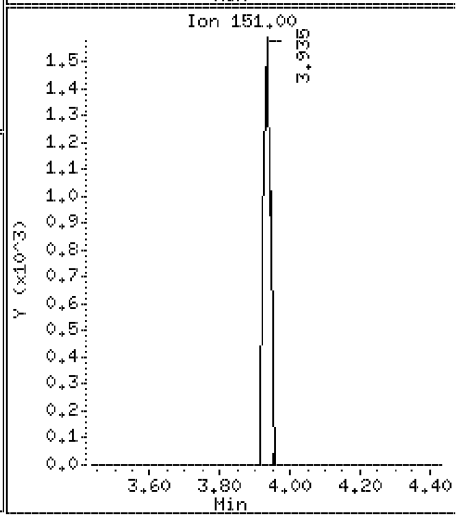












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

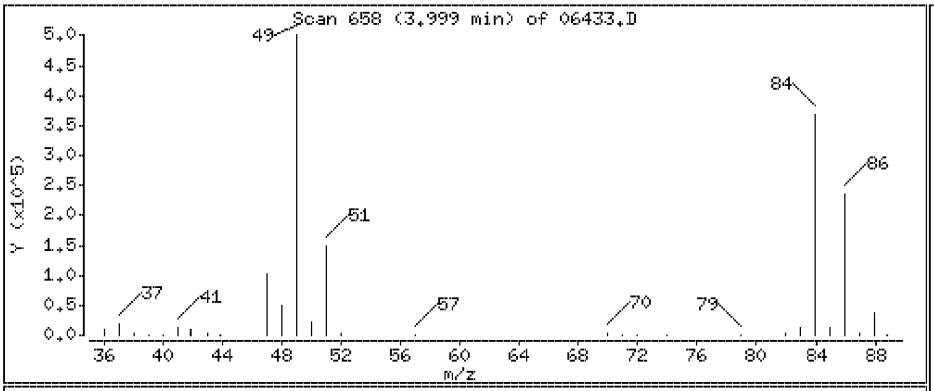
Operator: NCK

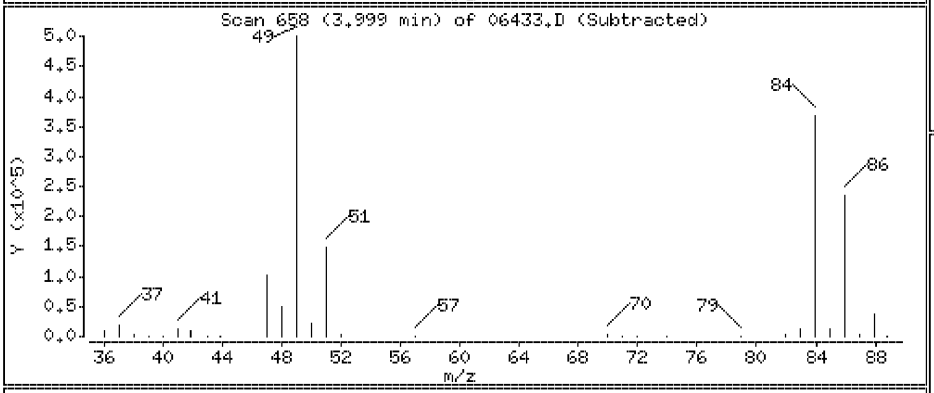
Column phase: J&W DB-5

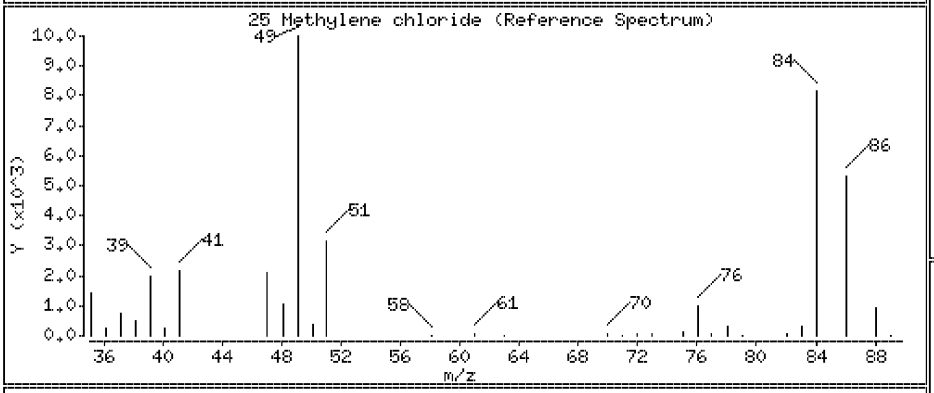
Column diameter: 0.32

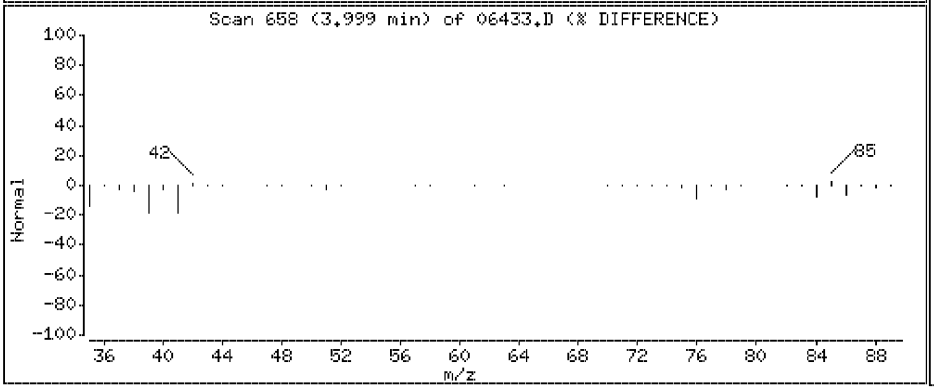
25 Methylene chloride

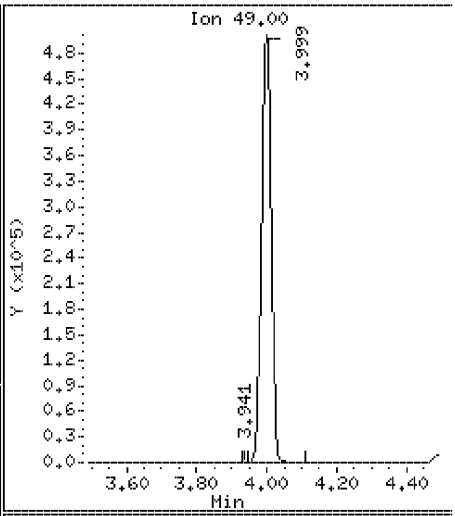
Concentration: 146 ppbv

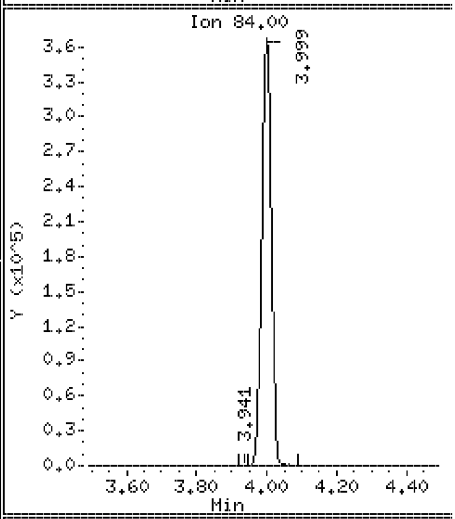


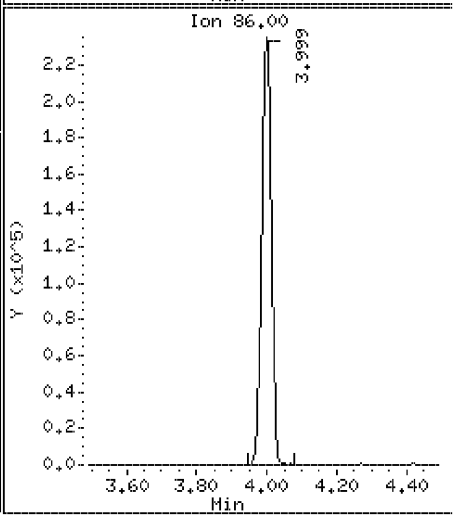












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

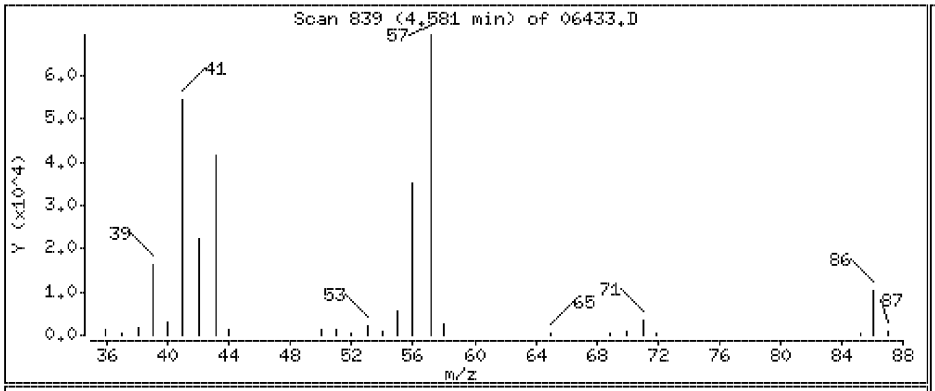
Operator: NCK

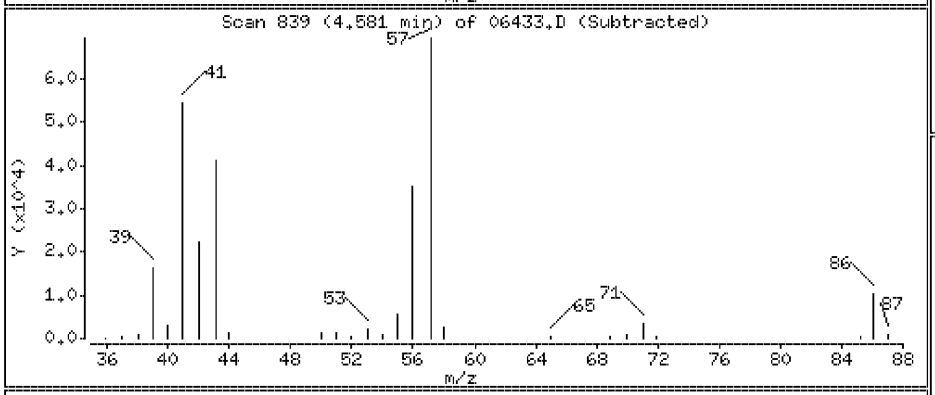
Column phase: J&W DB-5

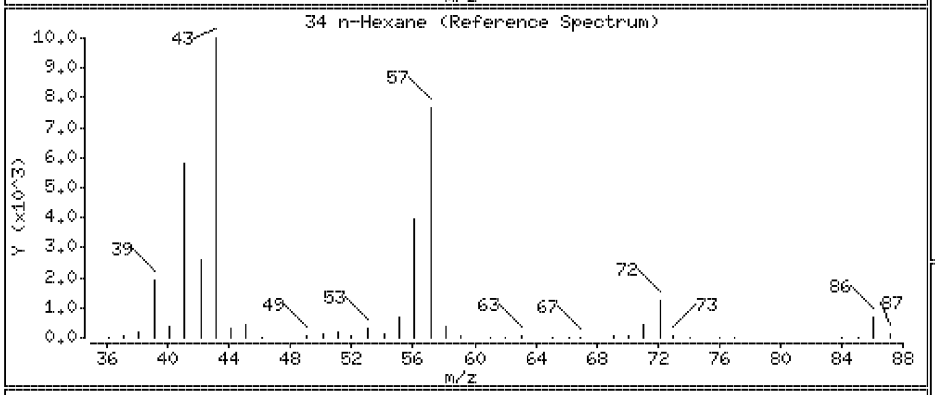
Column diameter: 0.32

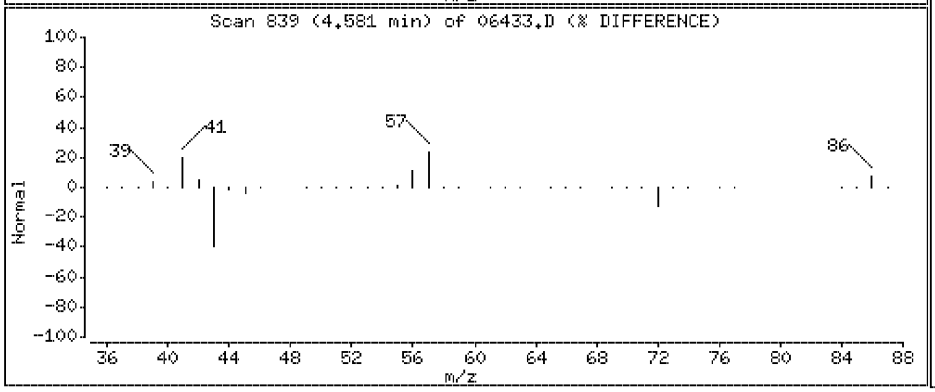
34 n-Hexane

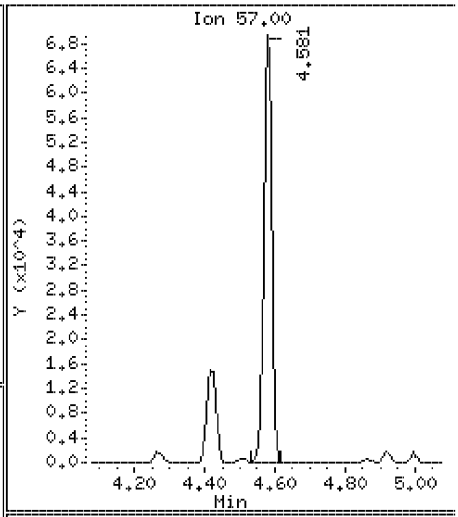
Concentration: 11.5 ppbv

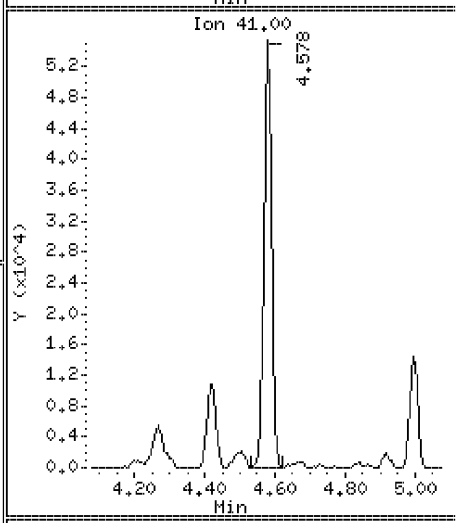


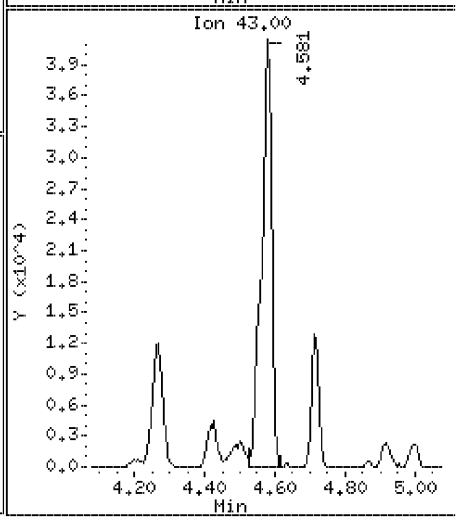












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

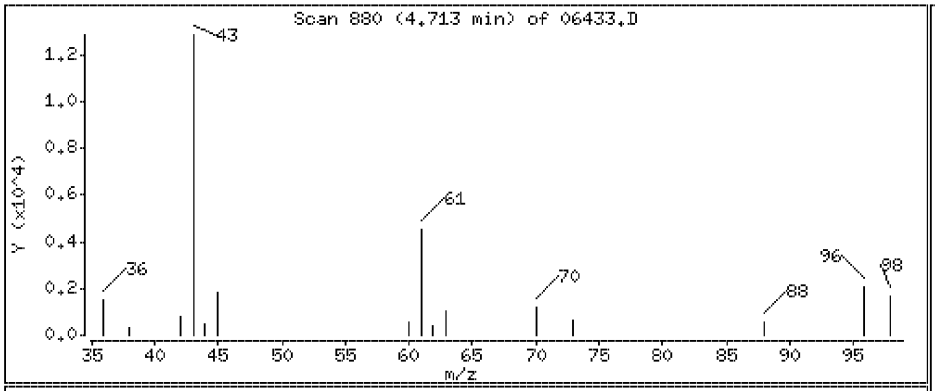
Operator: NCK

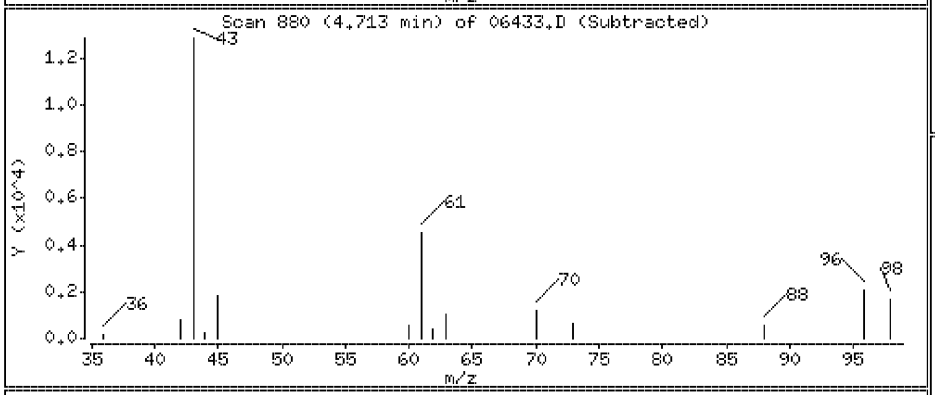
Column phase: J&W DB-5

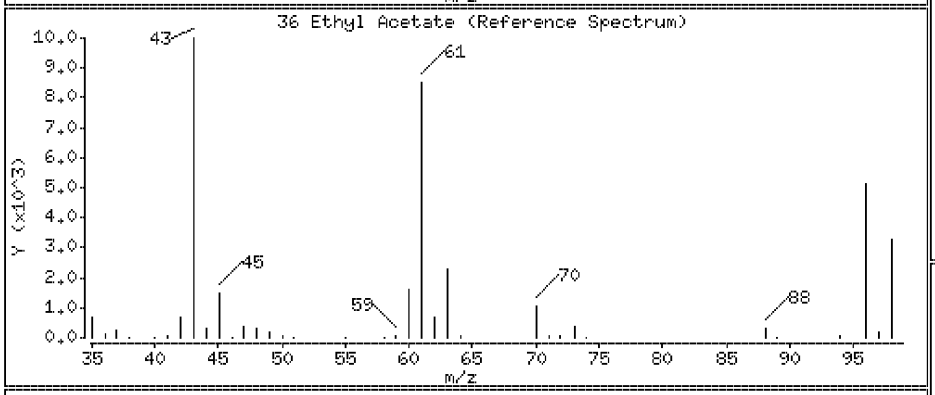
Column diameter: 0.32

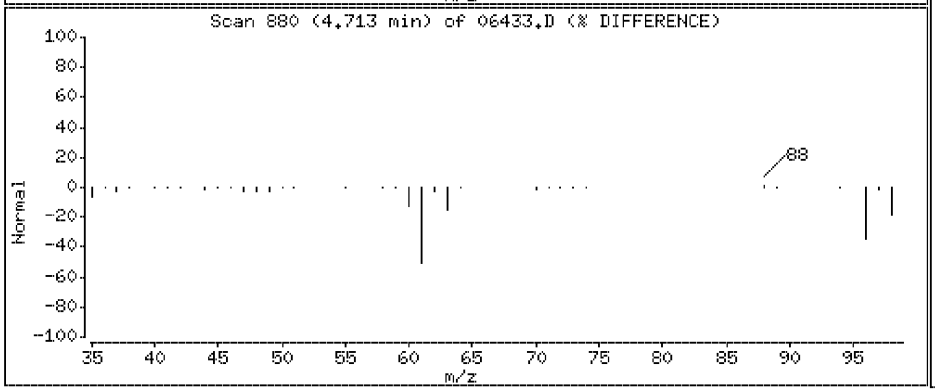
36 Ethyl Acetate

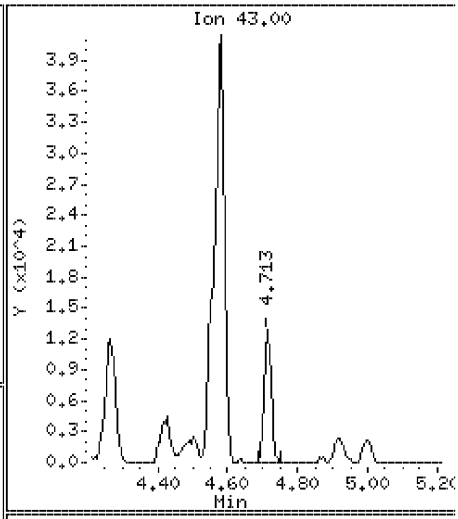
Concentration: 1.50 ppbv

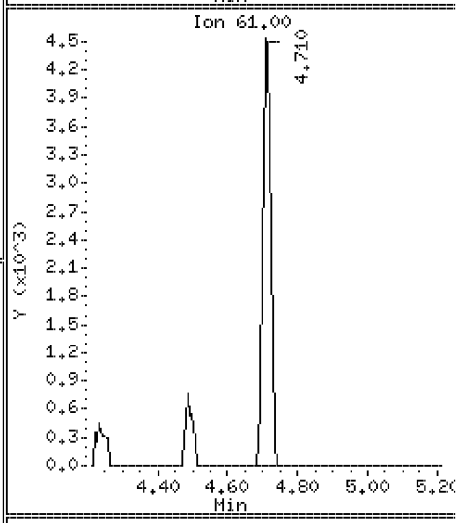


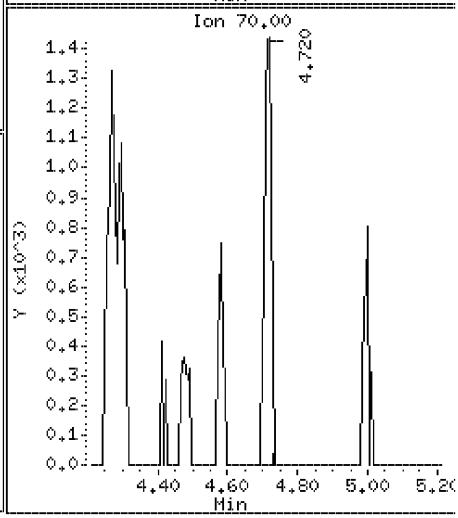












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

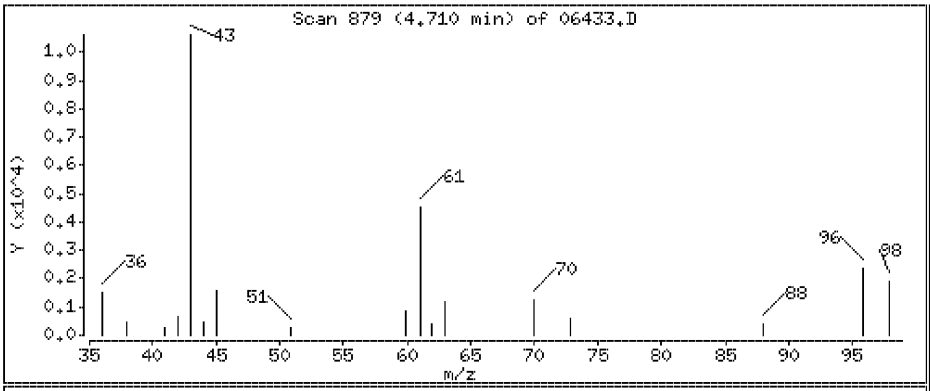
Operator: NCK

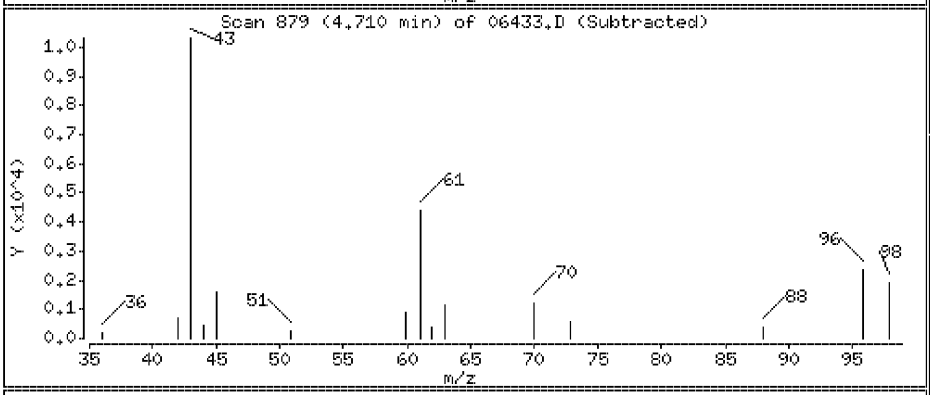
Column phase: J&W DB-5

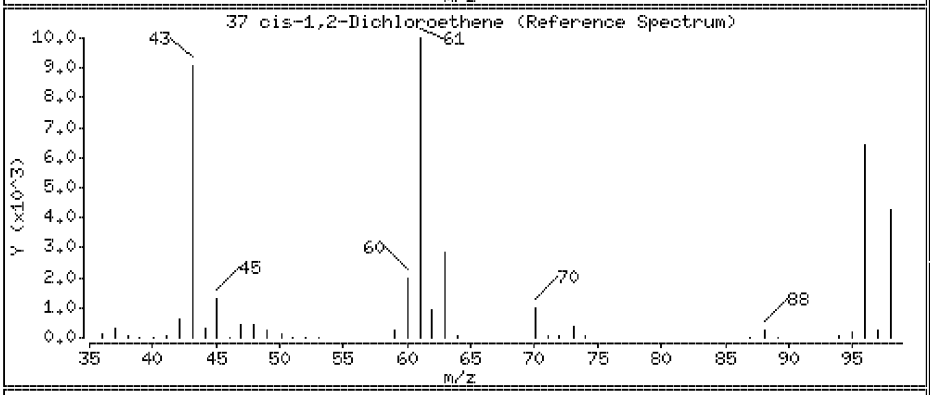
Column diameter: 0.32

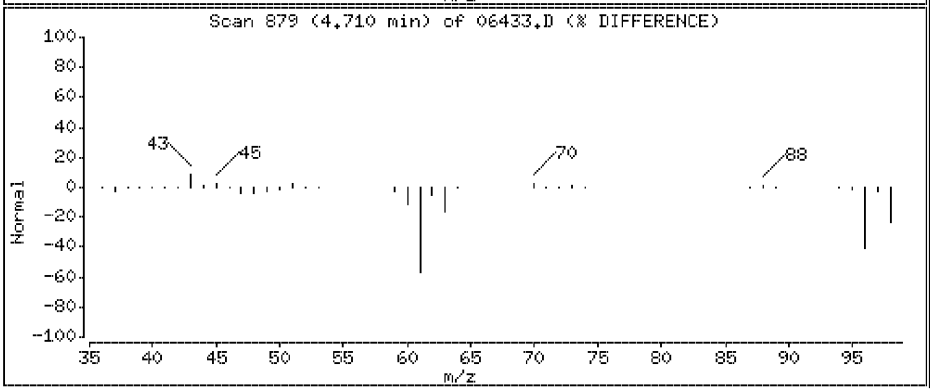
37 cis-1,2-Dichloroethene

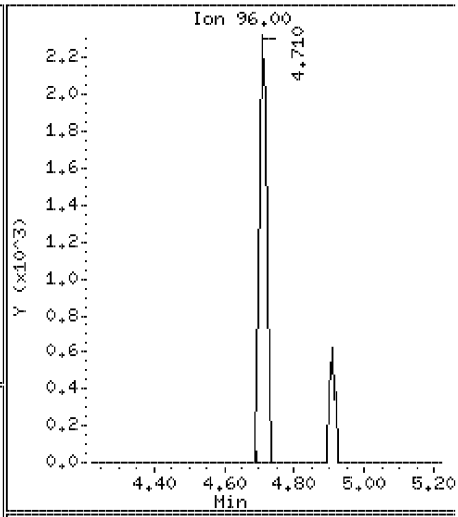
Concentration: 0.557 ppbv

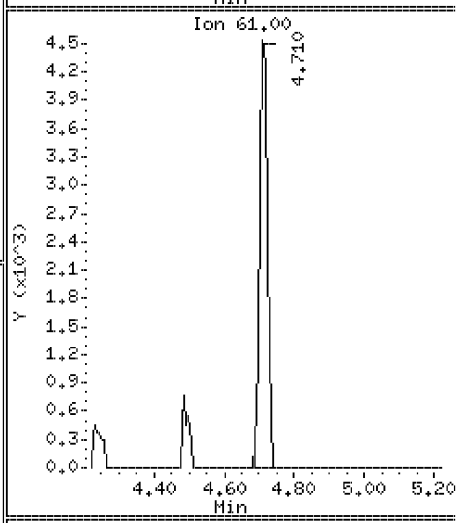


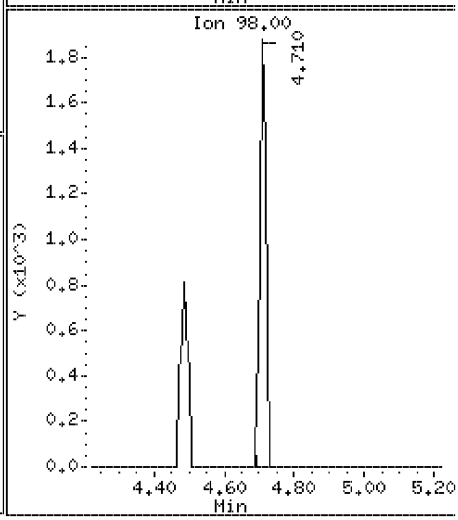












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

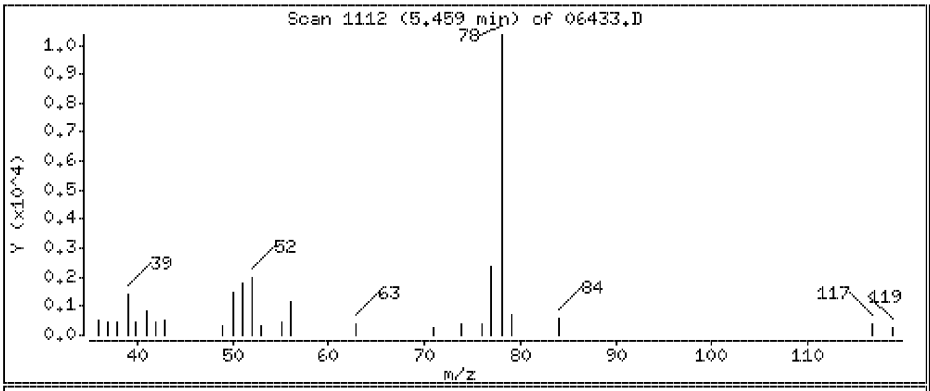
Operator: NCK

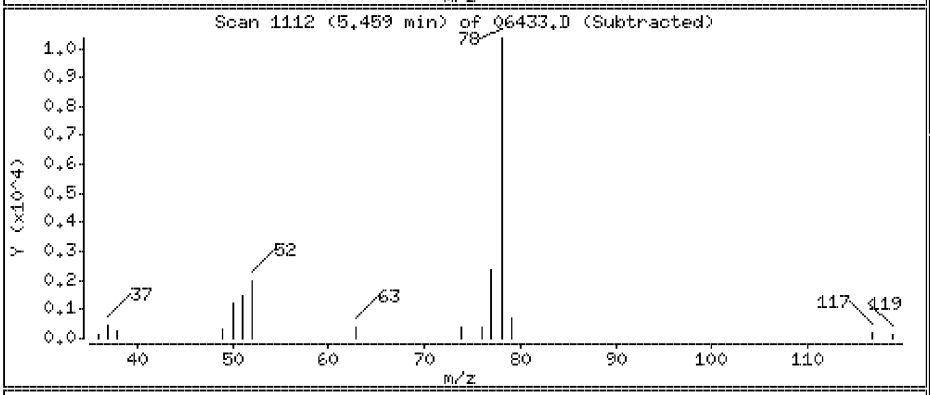
Column phase: J&W DB-5

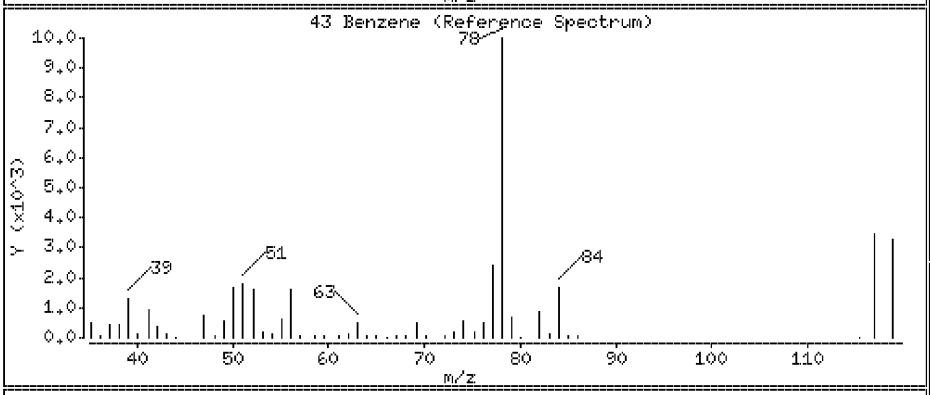
Column diameter: 0.32

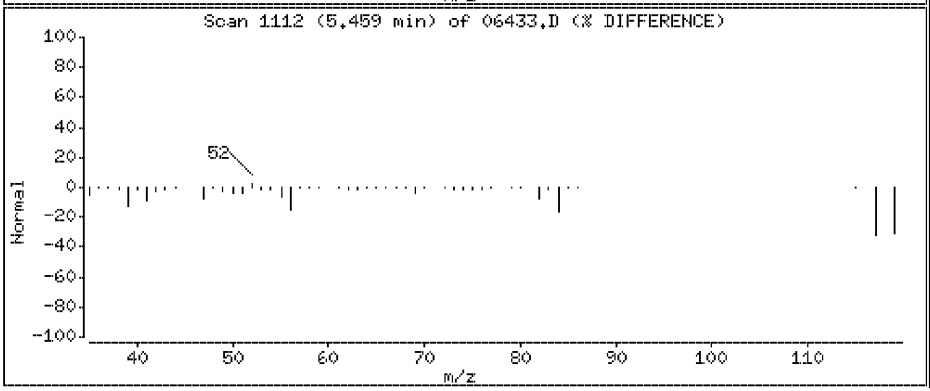
43 Benzene

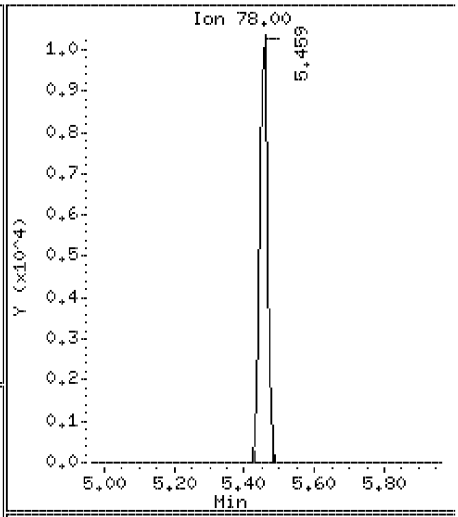
Concentration: 0.836 ppbv

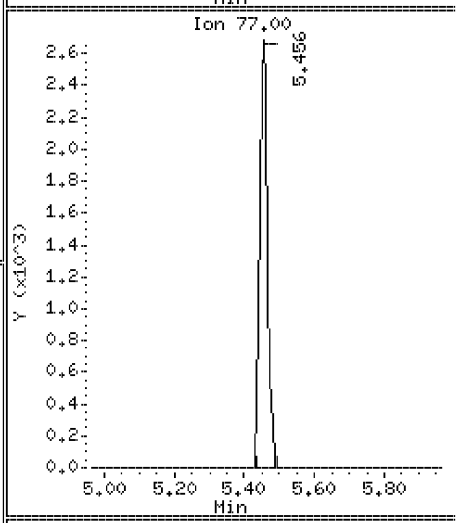


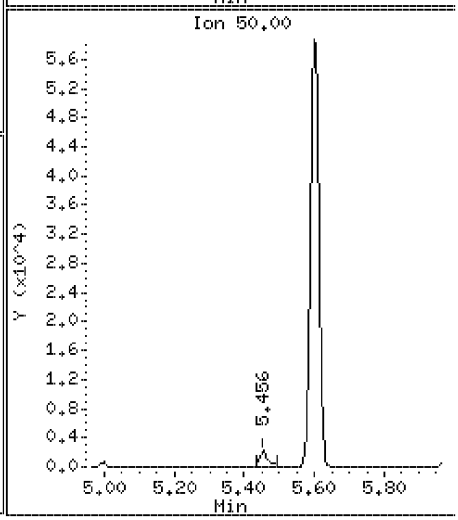












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

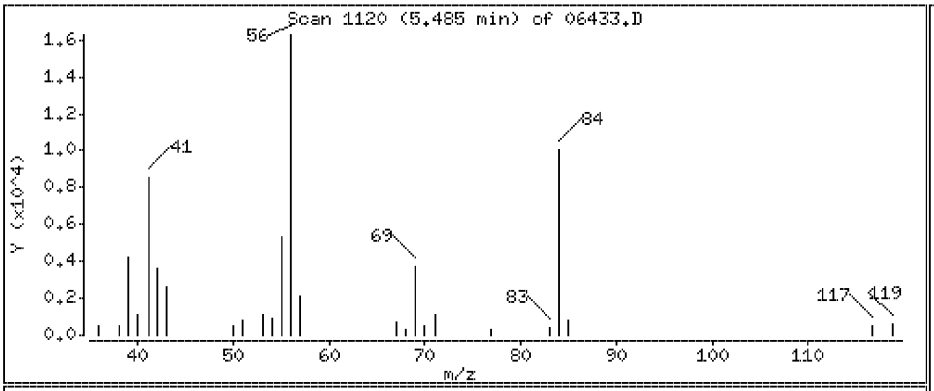
Operator: NCK

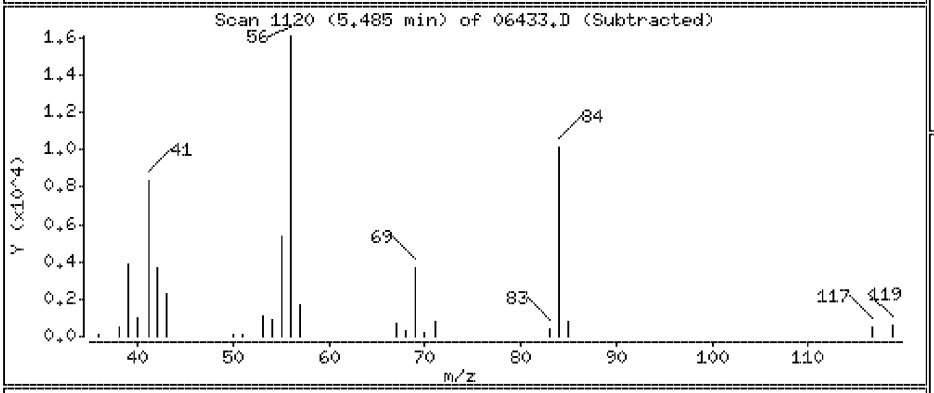
Column phase: J&W DB-5

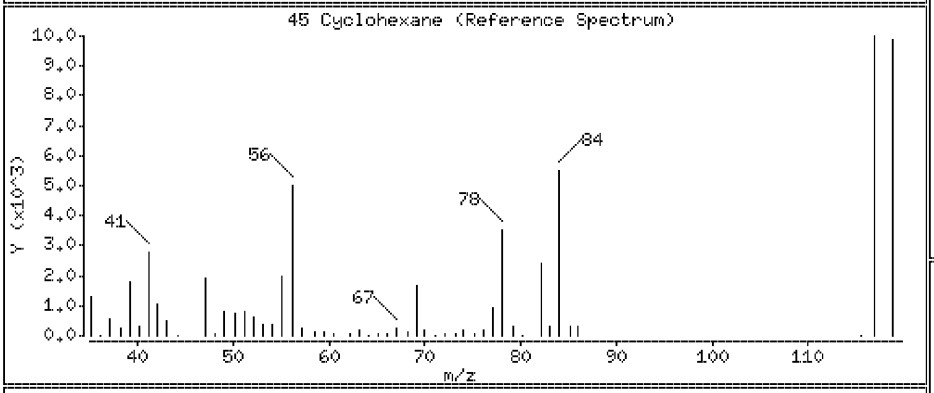
Column diameter: 0.32

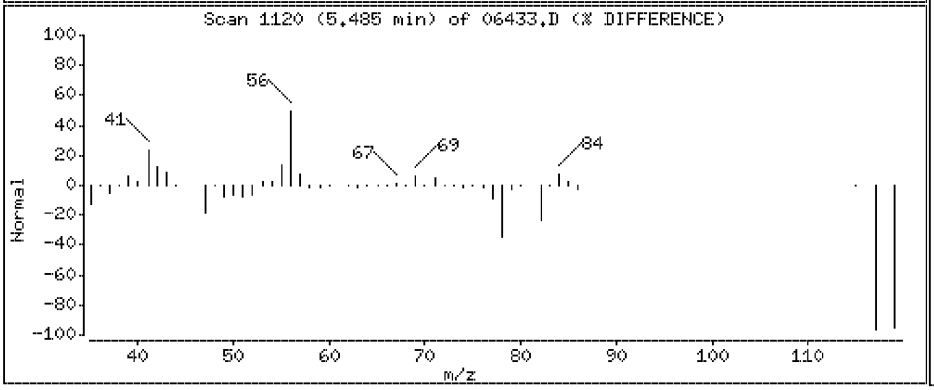
45 Cyclohexane

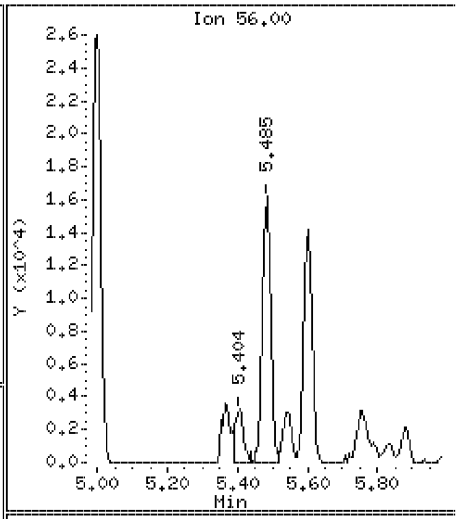
Concentration: 2.81 ppbv

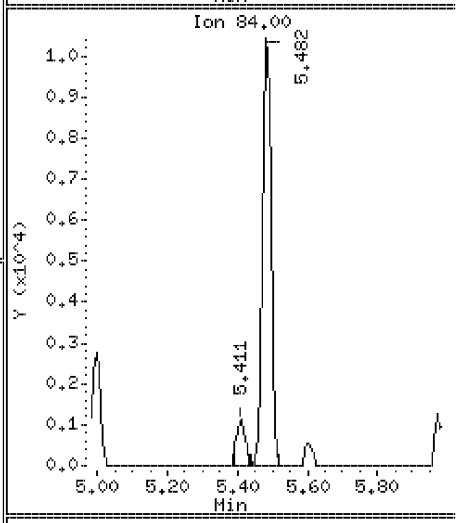


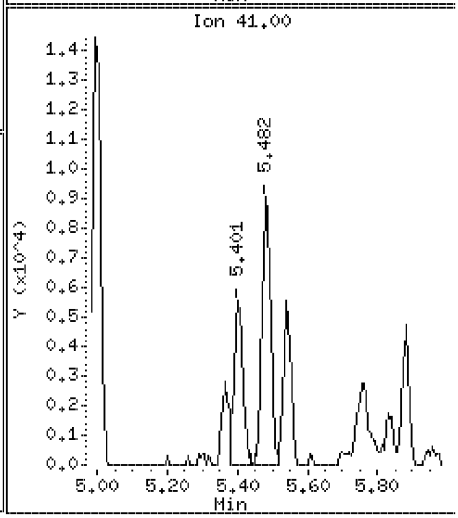












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

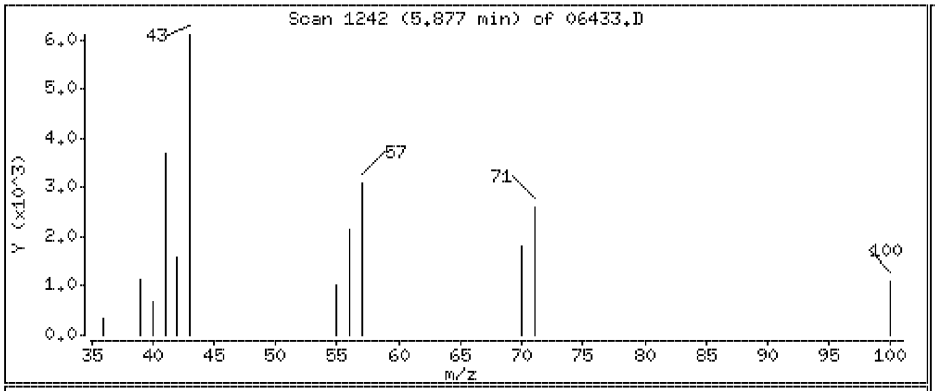
Operator: NCK

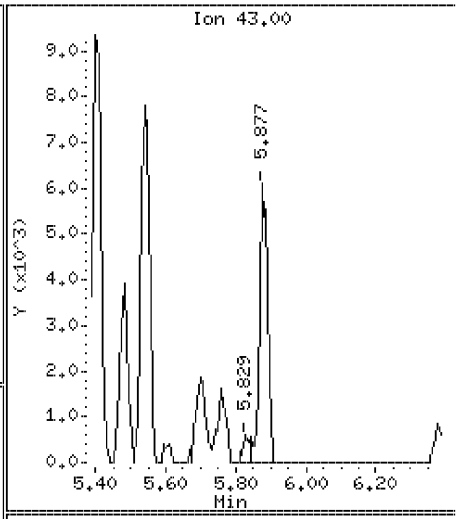
Column phase: J&W DB-5

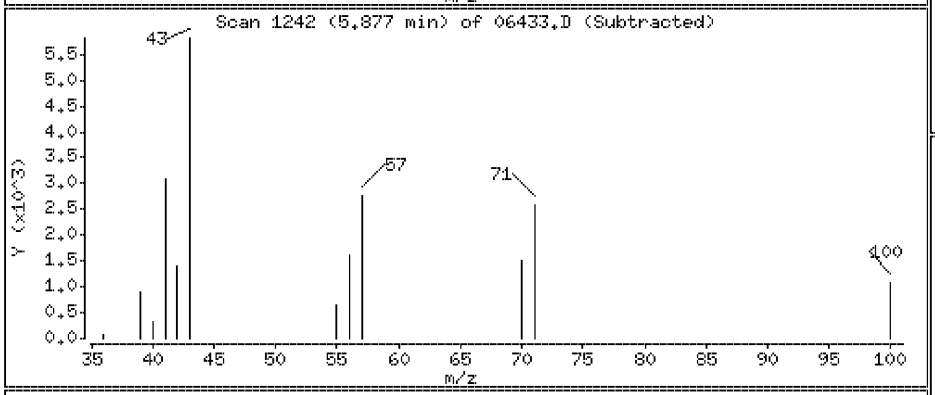
Column diameter: 0.32

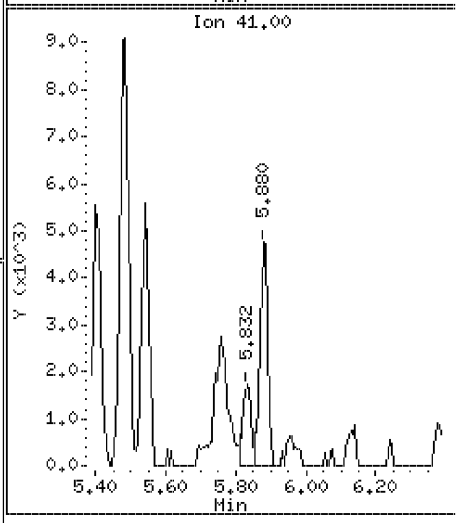
49 Heptane

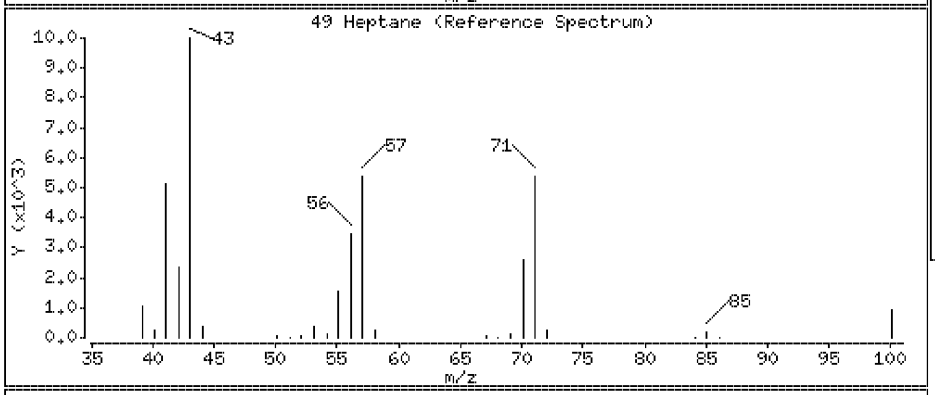
Concentration: 0.887 ppbv

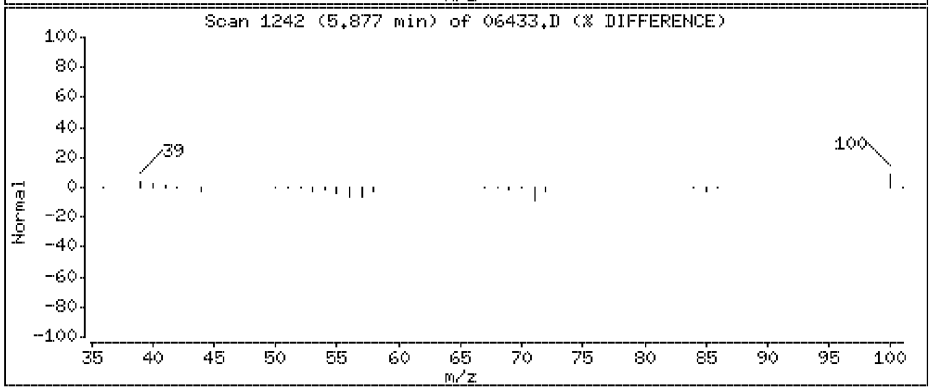












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

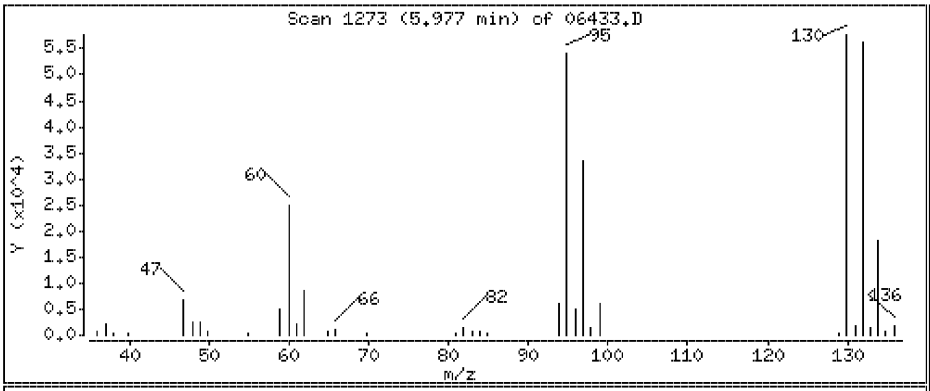
Operator: NCK

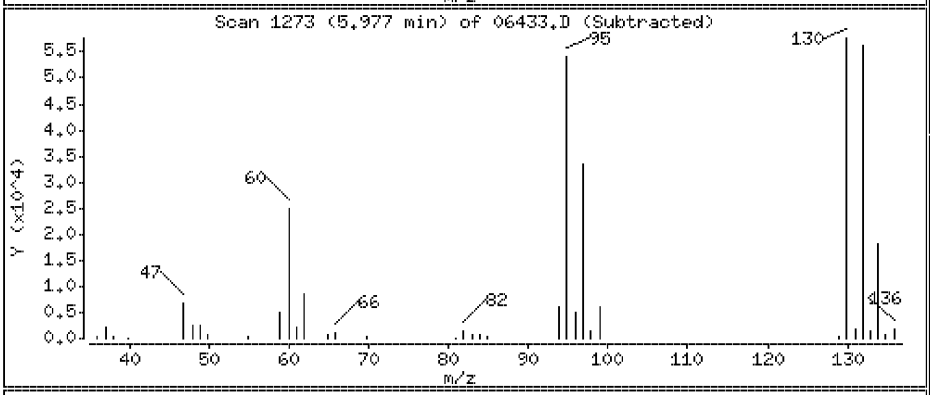
Column phase: J&W DB-5

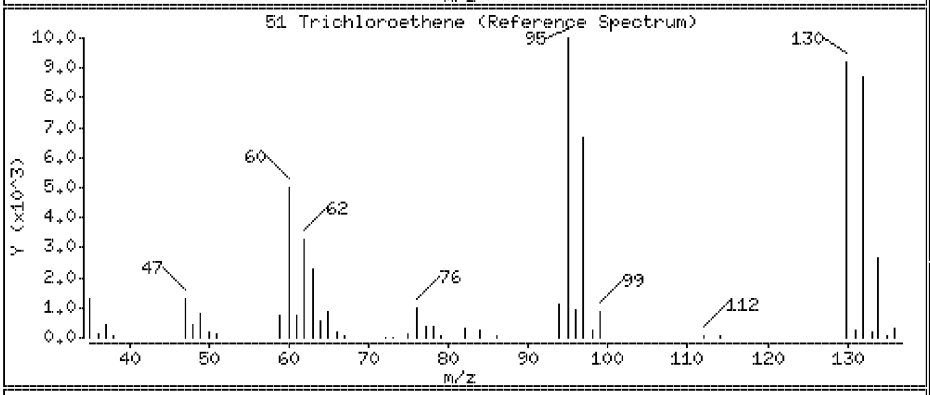
Column diameter: 0.32

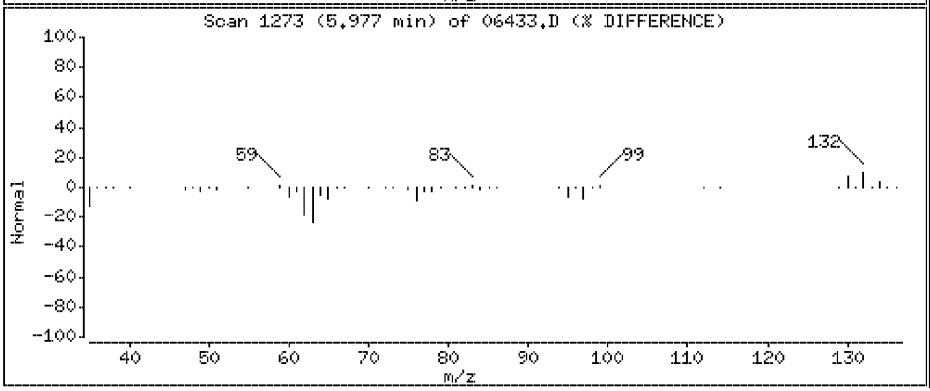
51 Trichloroethene

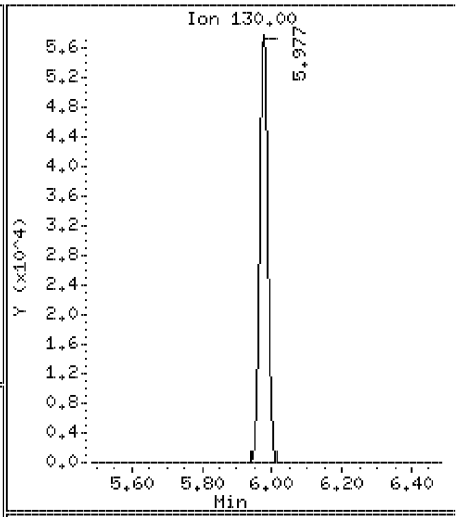
Concentration: 9.13 ppbv

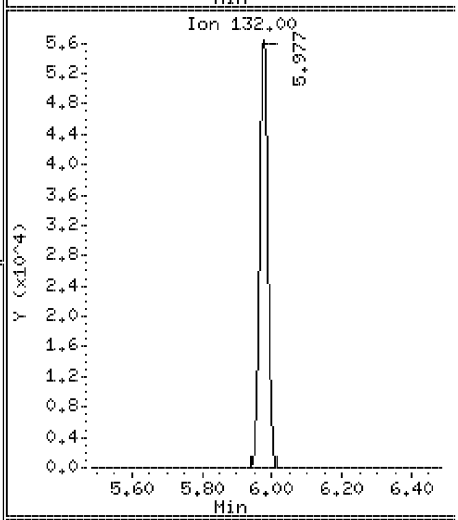


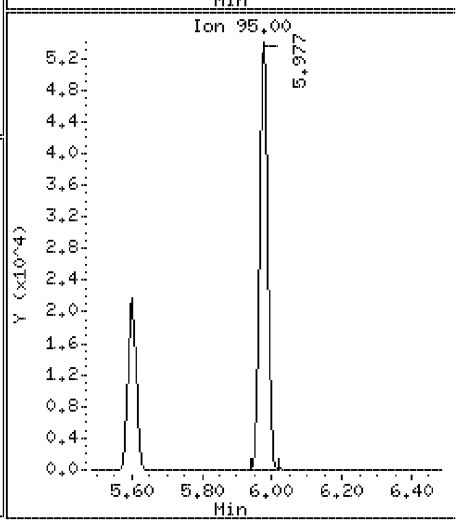












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

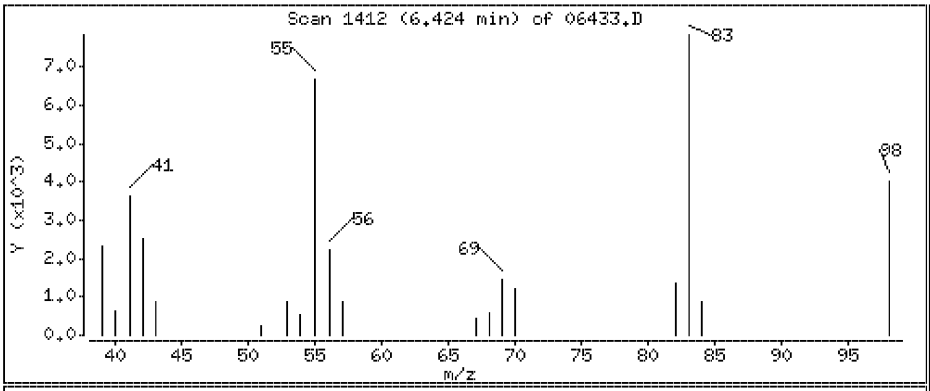
Operator: NCK

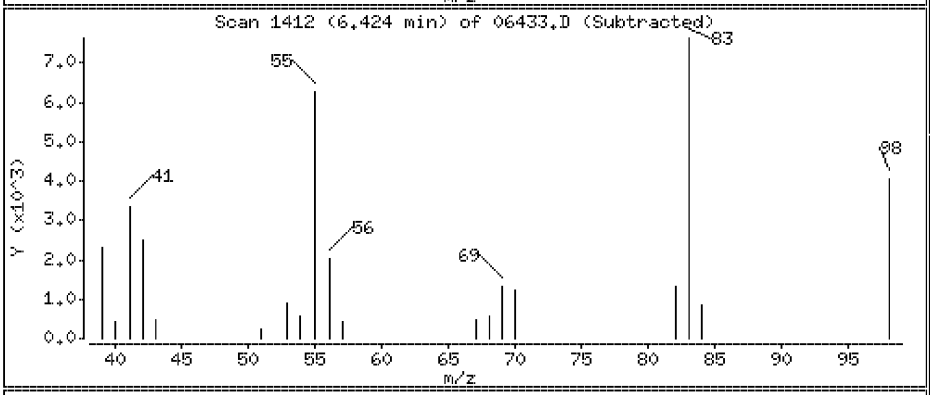
Column phase: J&W DB-5

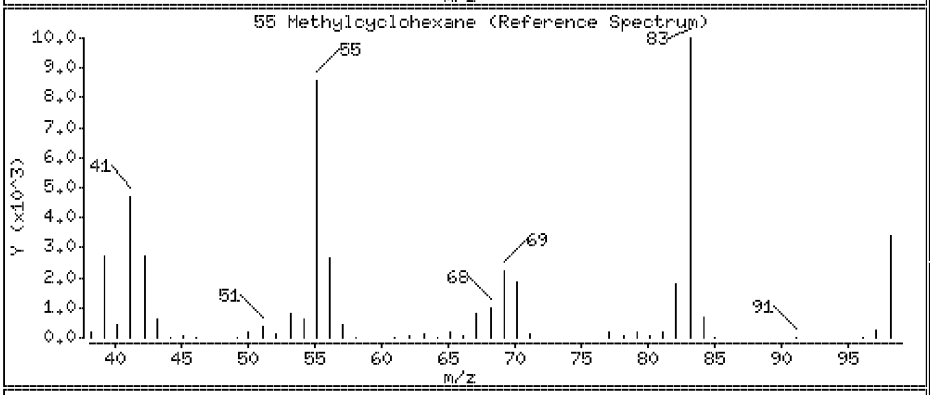
Column diameter: 0.32

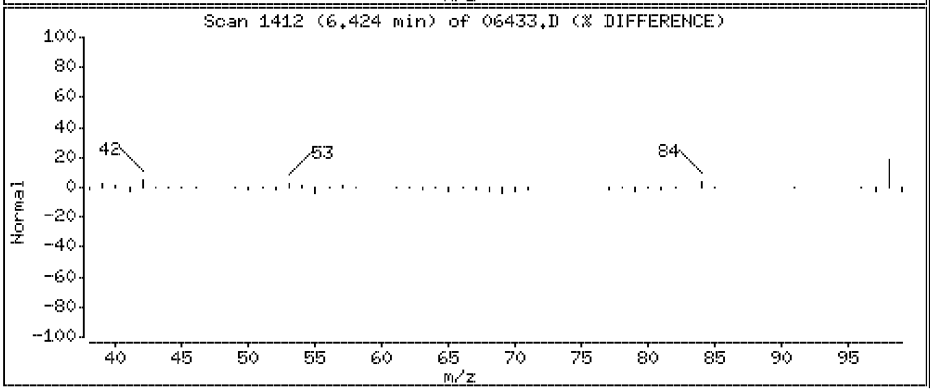
55 Methylcyclohexane

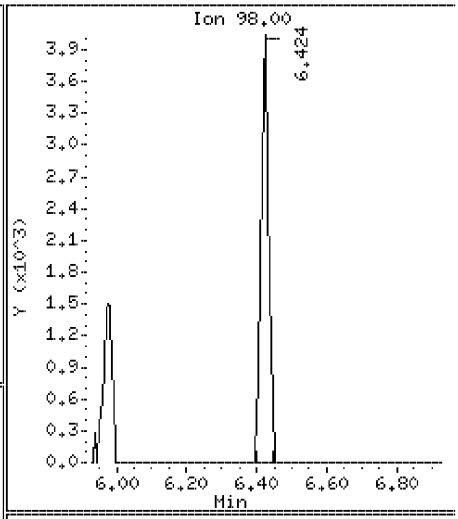
Concentration: 1.13 ppbv

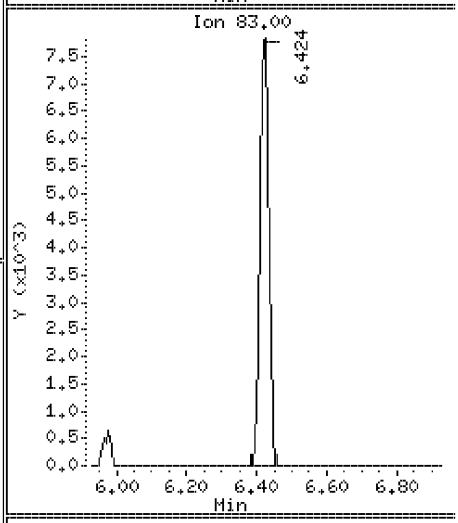


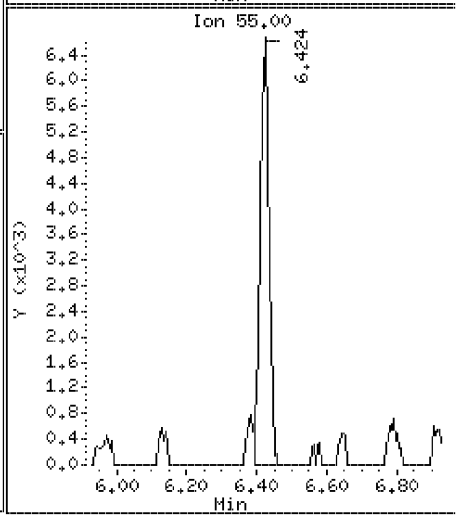












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

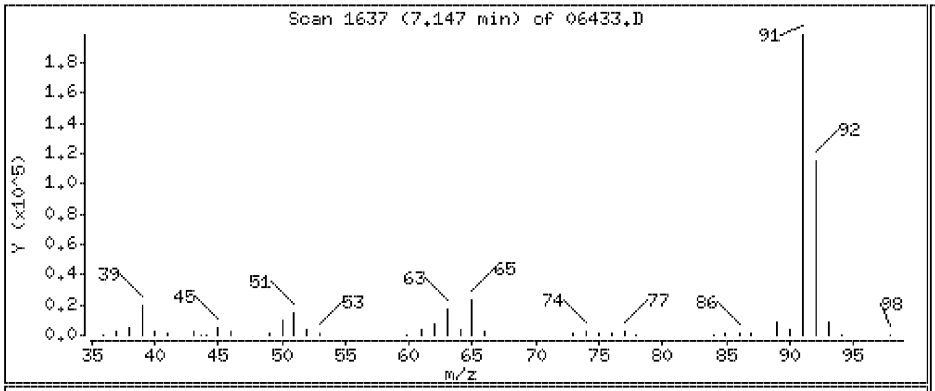
Operator: NCK

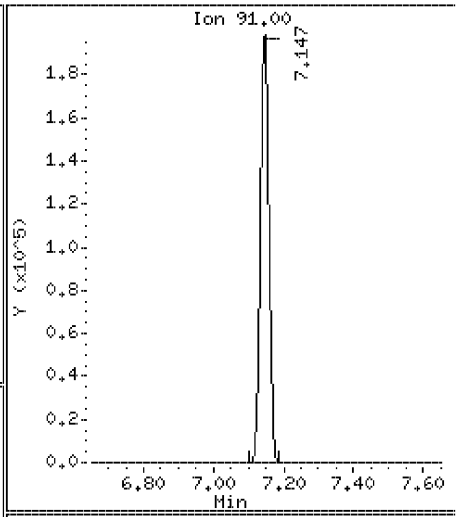
Column phase: J&W DB-5

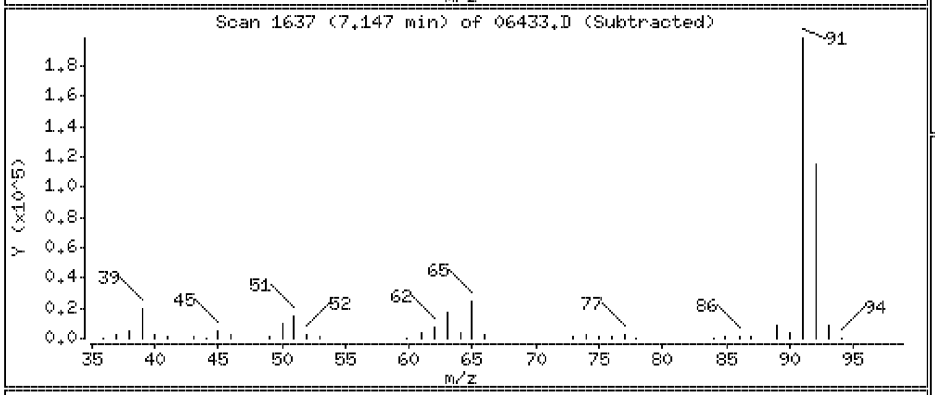
Column diameter: 0.32

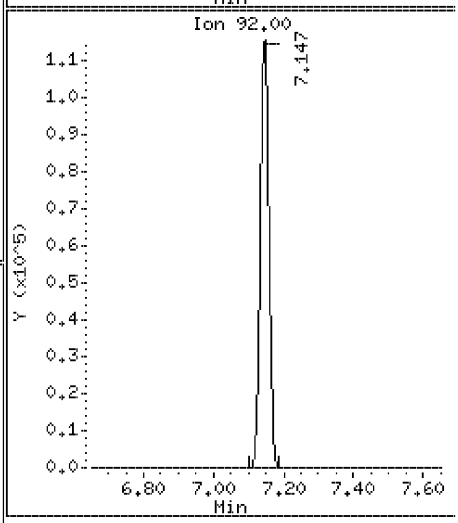
61 Toluene

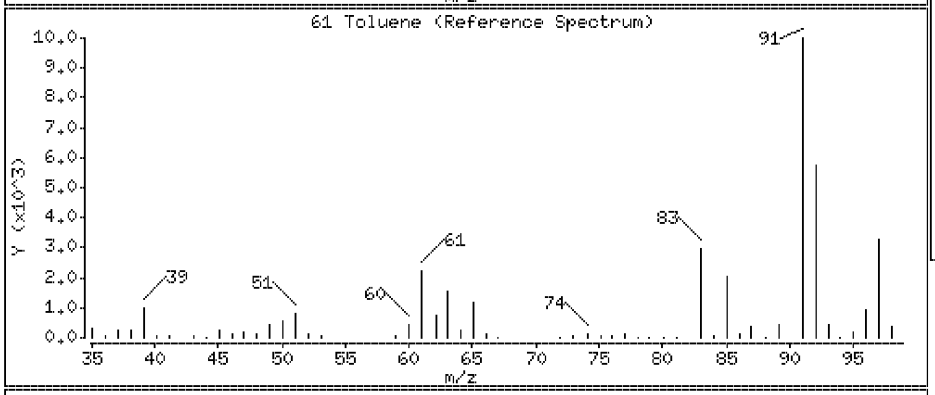
Concentration: 13.8 ppbv

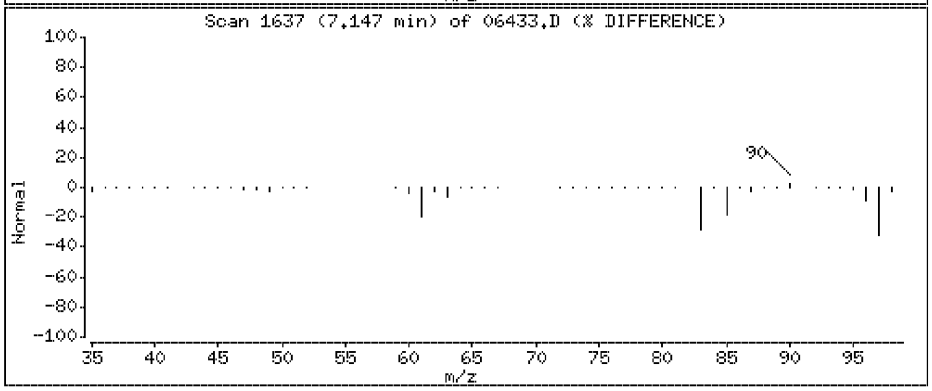












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

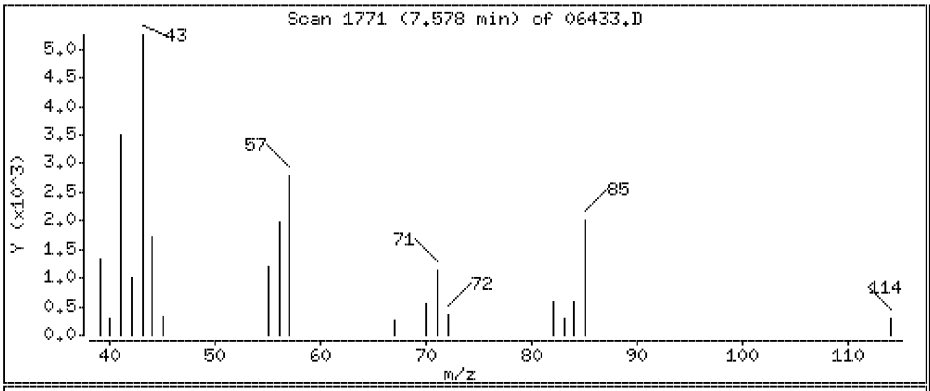
Operator: NCK

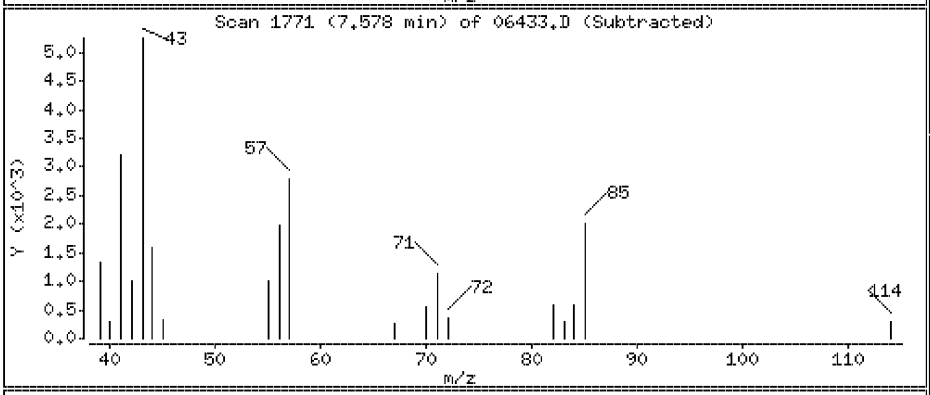
Column phase: J&W DB-5

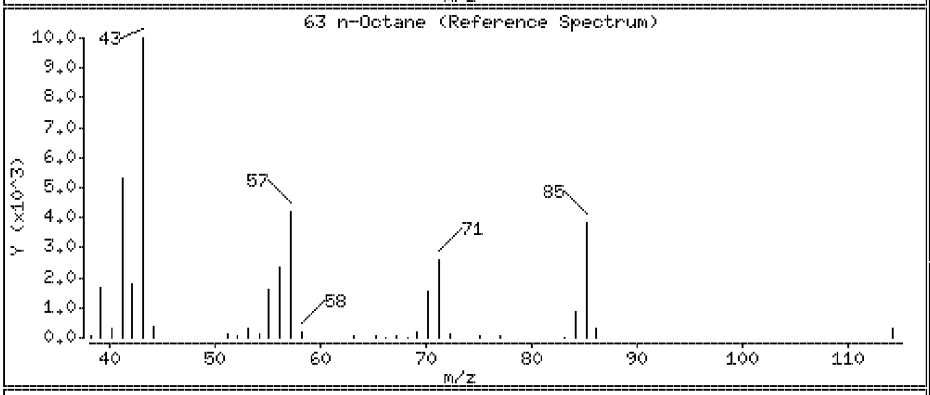
Column diameter: 0.32

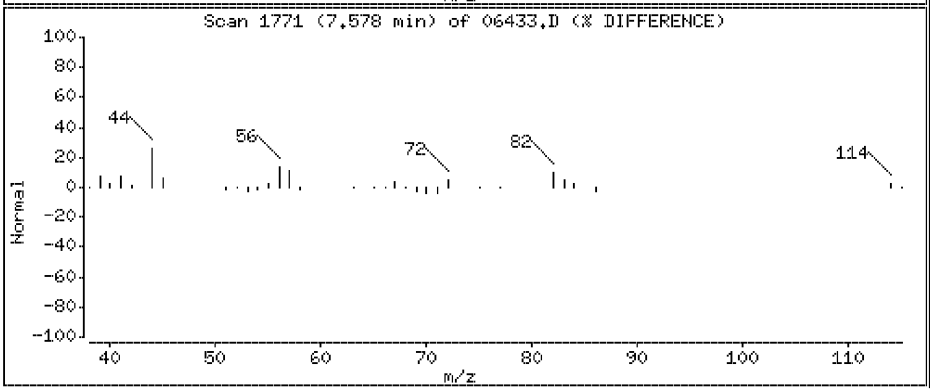
63 n-Octane

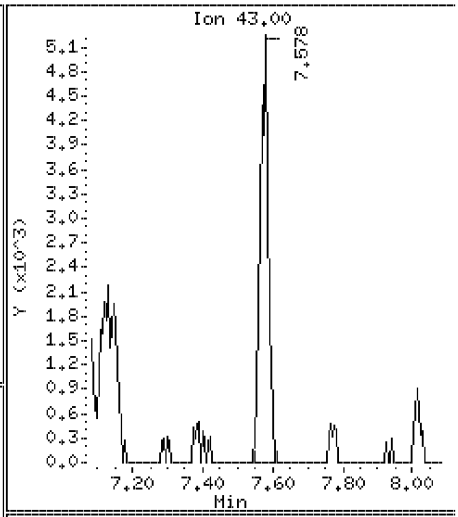
Concentration: 0.597 ppbv

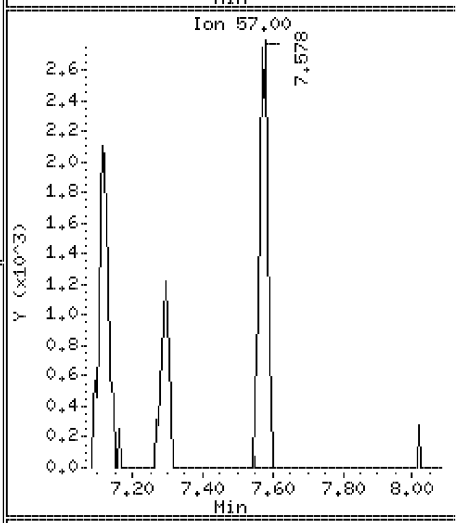


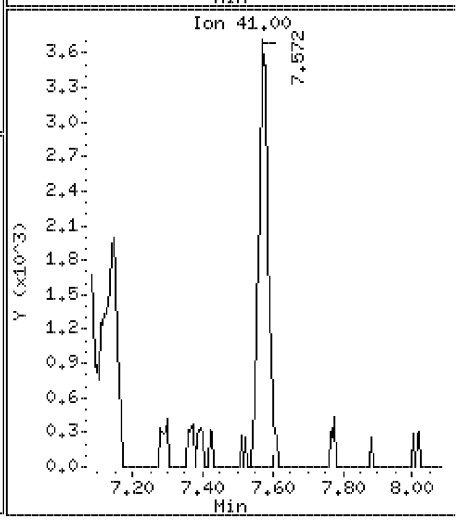












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

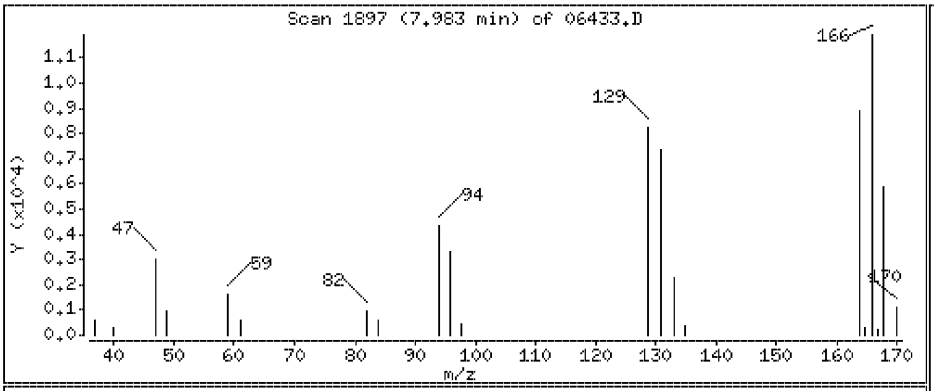
Operator: NCK

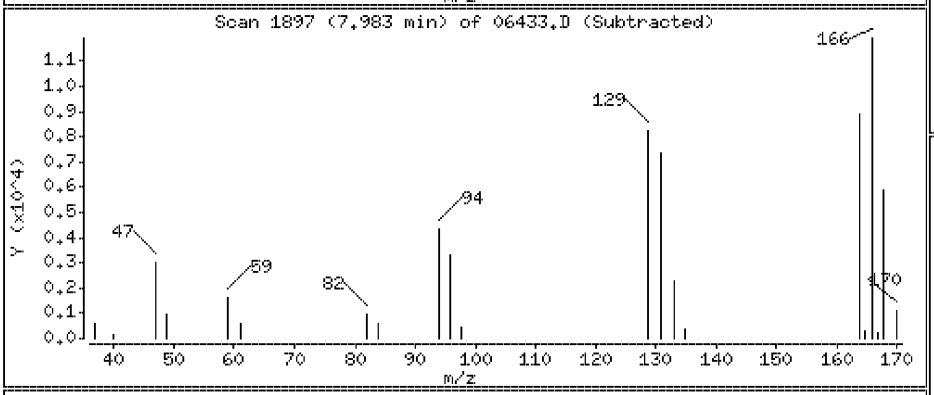
Column phase: J&W DB-5

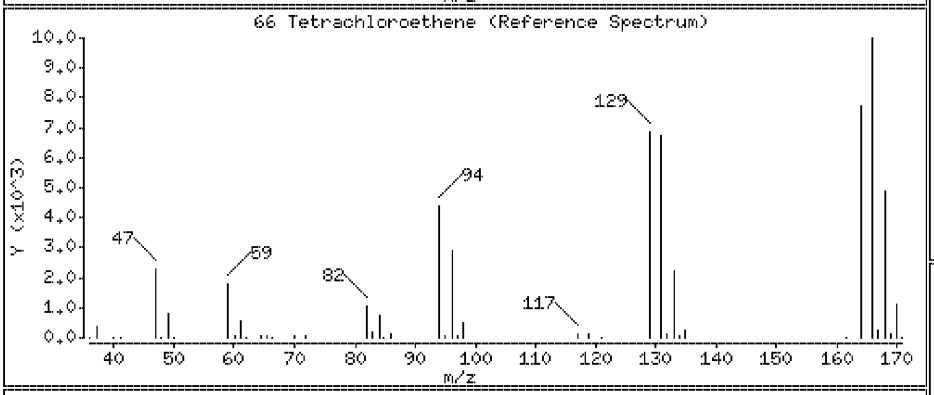
Column diameter: 0.32

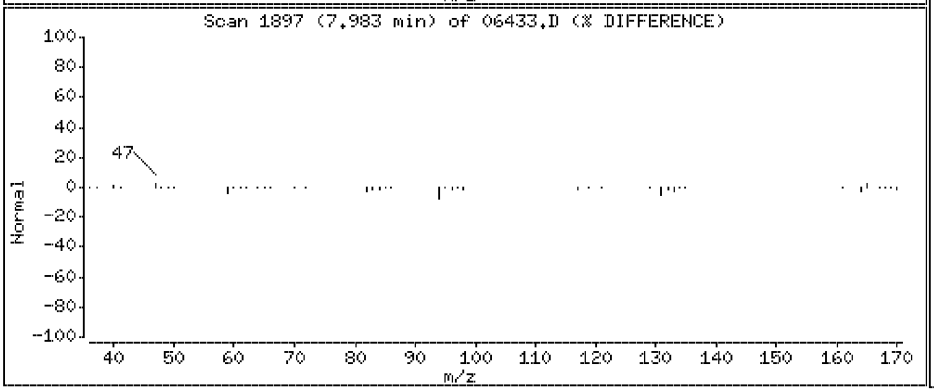
66 Tetrachloroethene

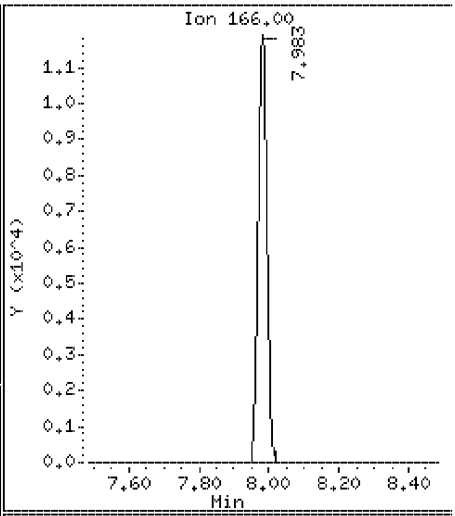
Concentration: 1.48 ppbv

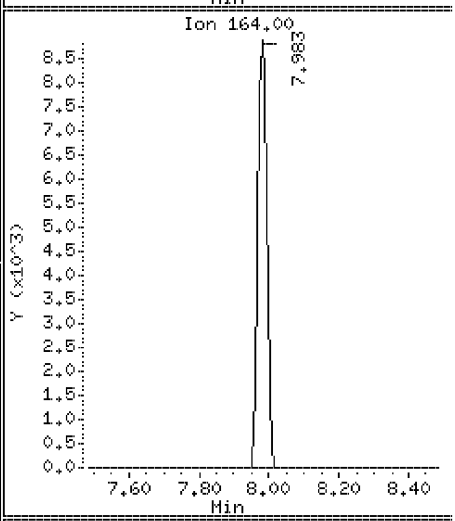


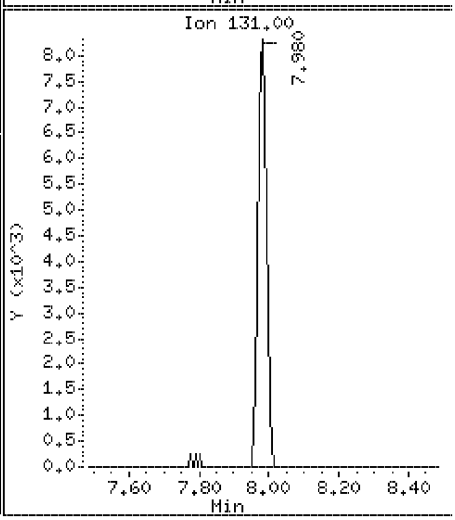












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

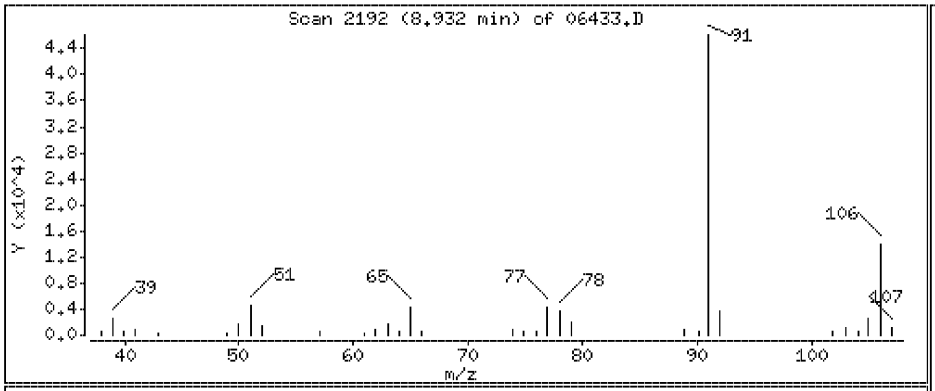
Operator: NCK

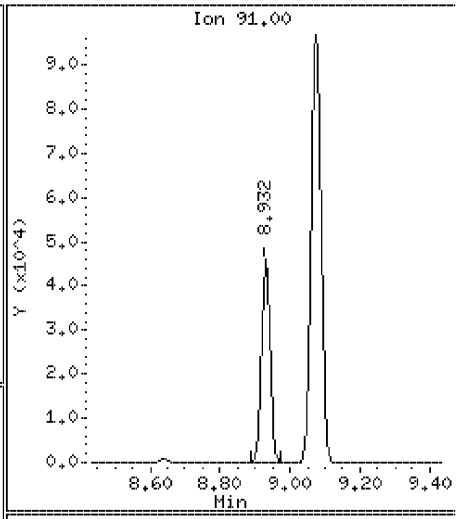
Column phase: J&W DB-5

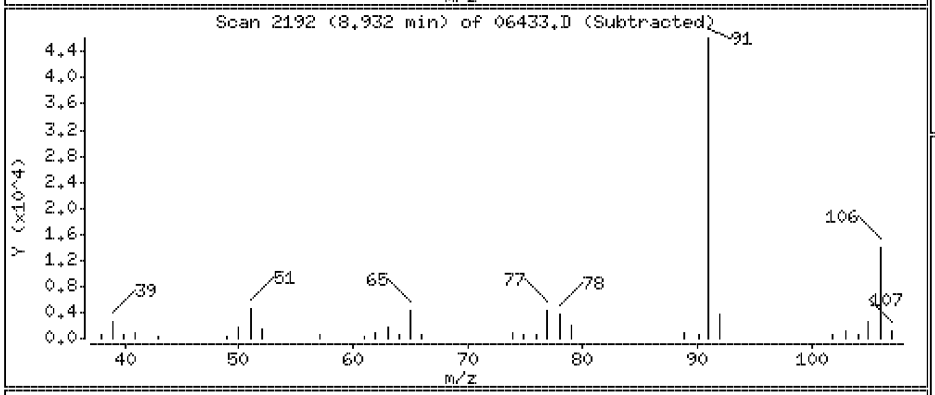
Column diameter: 0.32

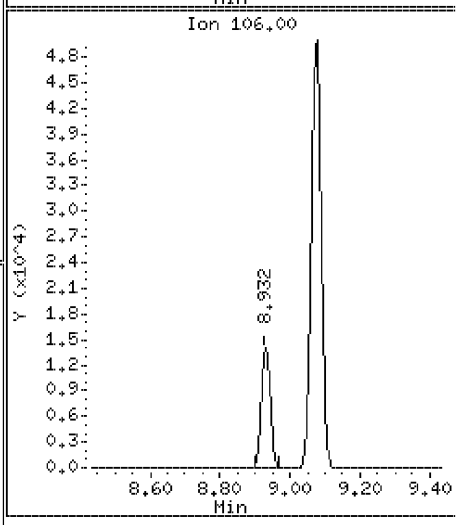
69 Ethyl Benzene

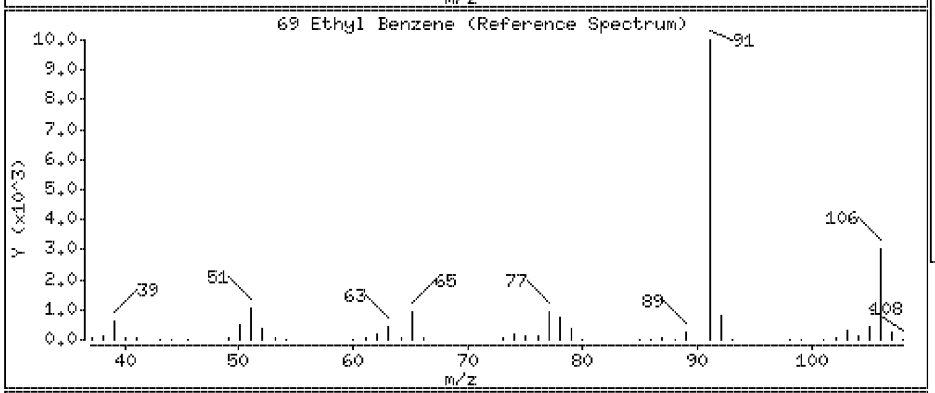
Concentration: 2.64 ppbv

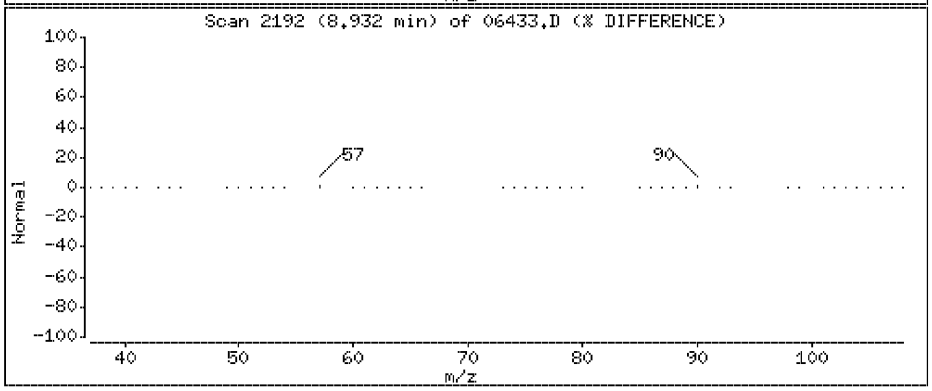












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

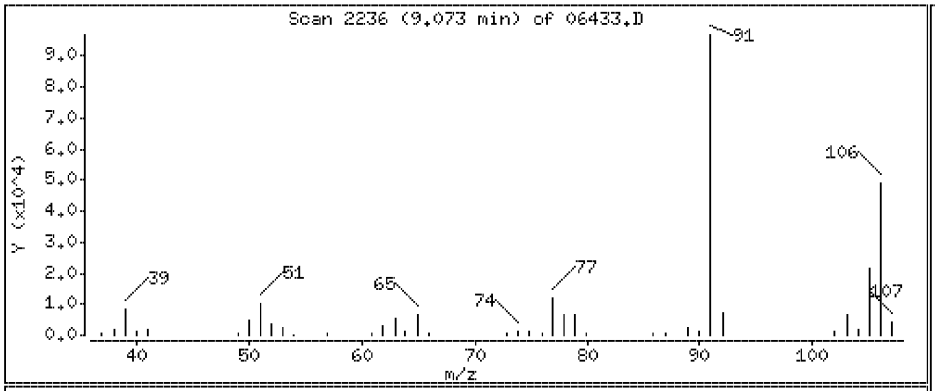
Operator: NCK

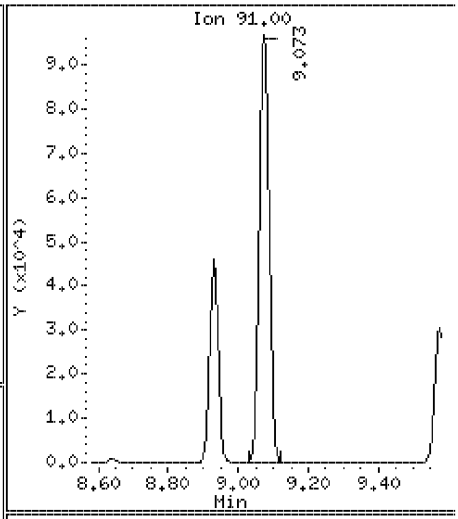
Column phase: J&W DB-5

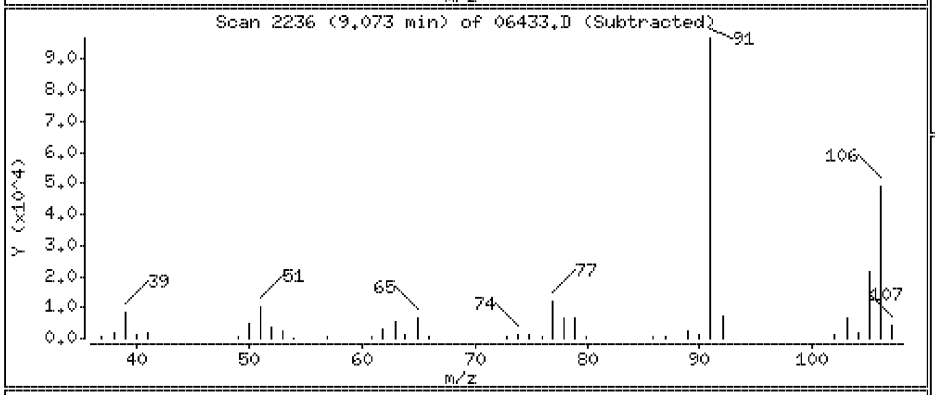
Column diameter: 0.32

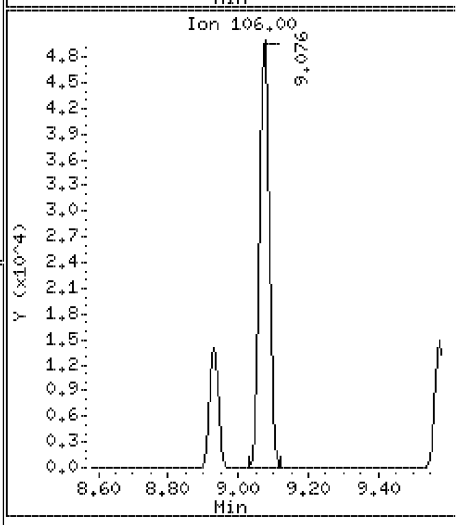
70 m&p-Xylene

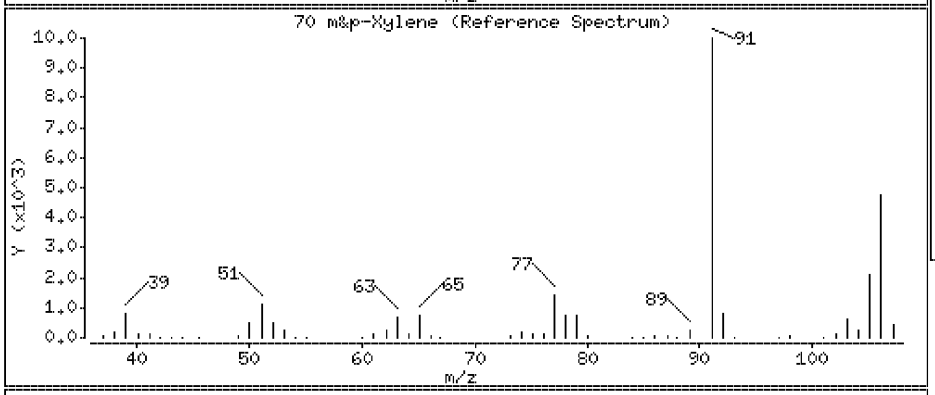
Concentration: 8.25 ppbv

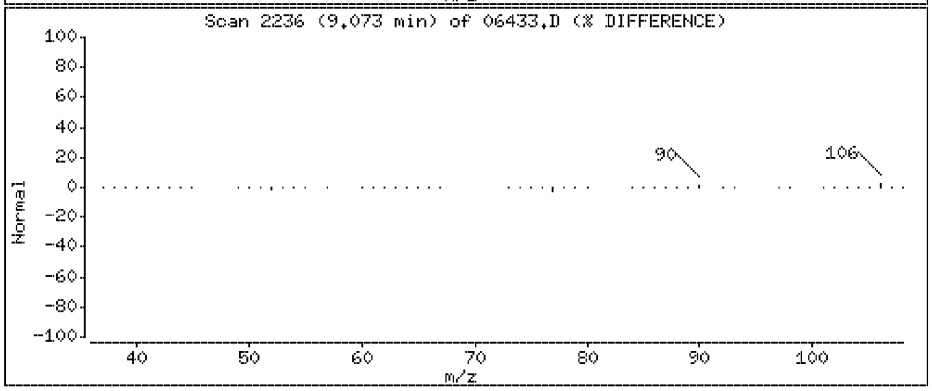












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

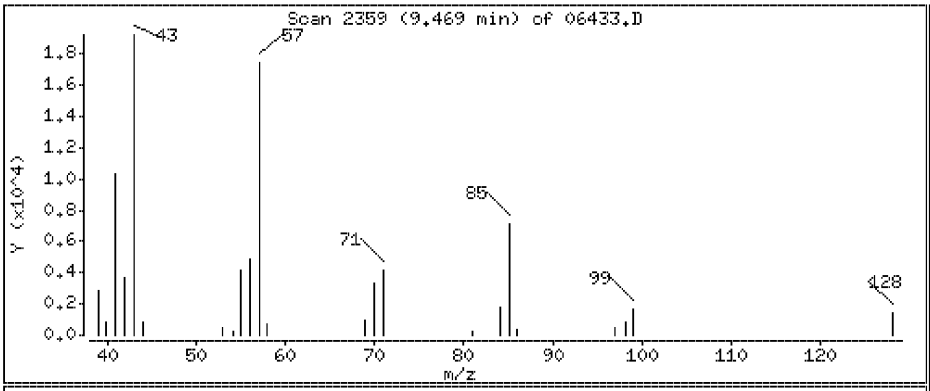
Operator: NCK

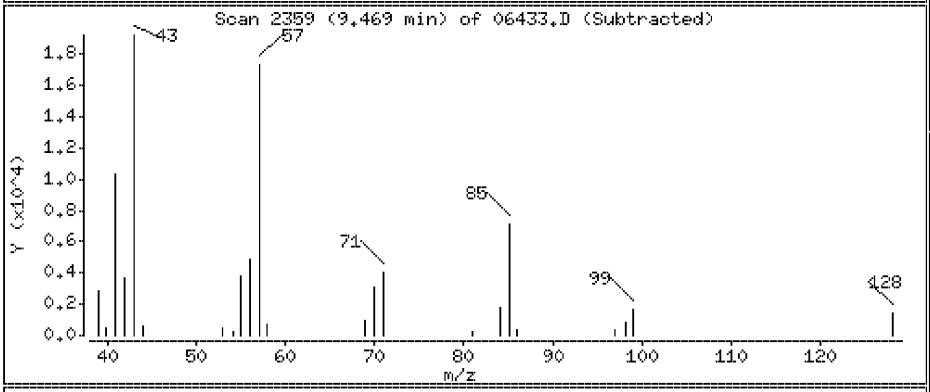
Column phase: J&W DB-5

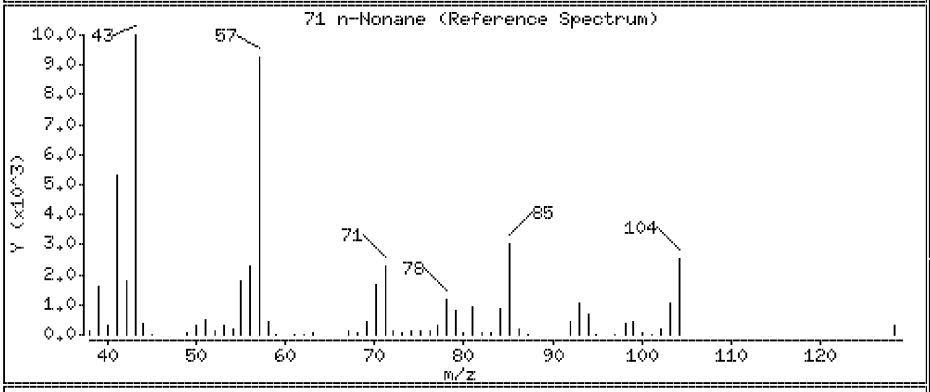
Column diameter: 0.32

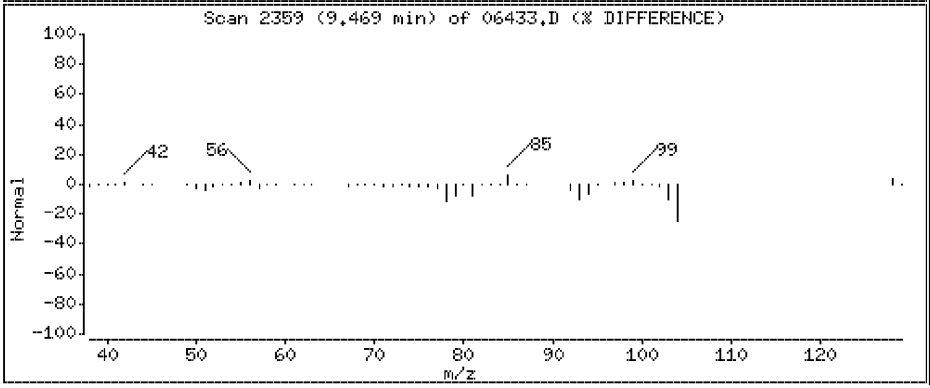
71 n-Nonane

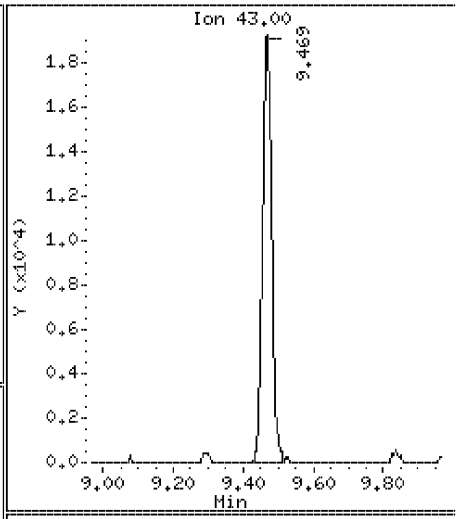
Concentration: 2.91 ppbv

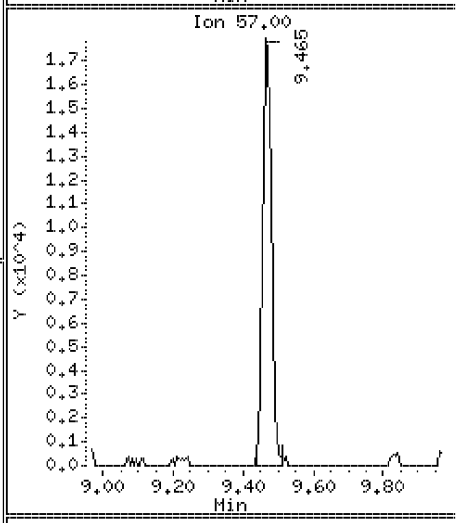


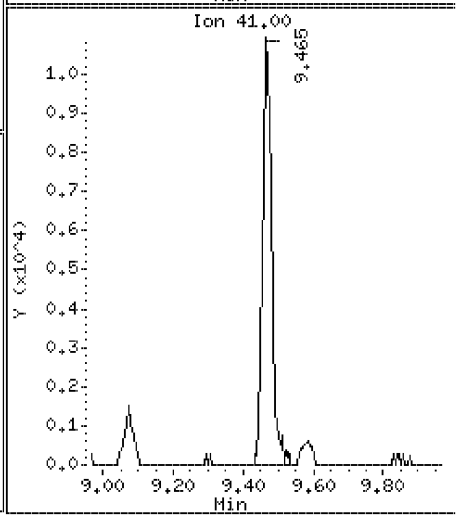












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

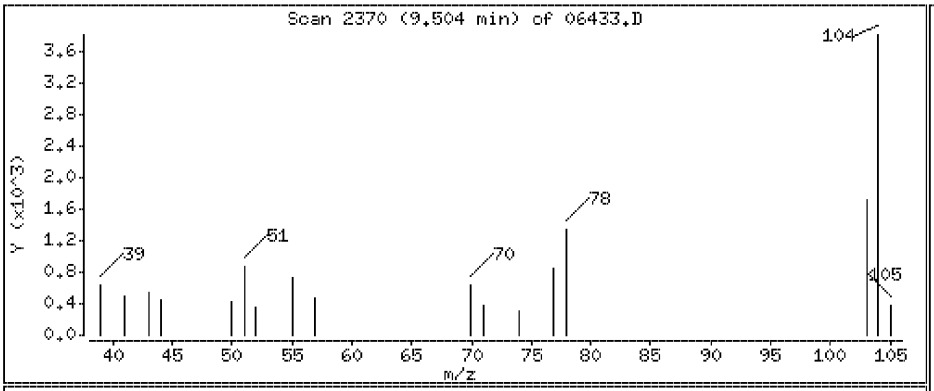
Operator: NCK

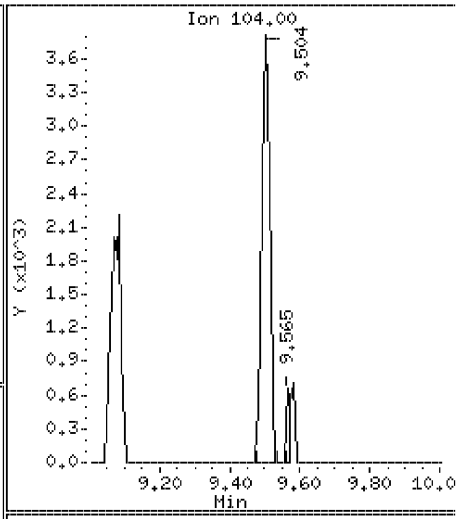
Column phase: J&W DB-5

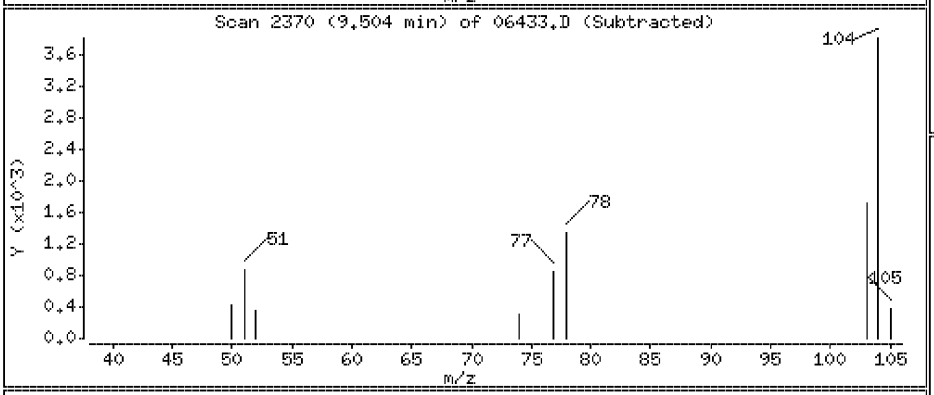
Column diameter: 0.32

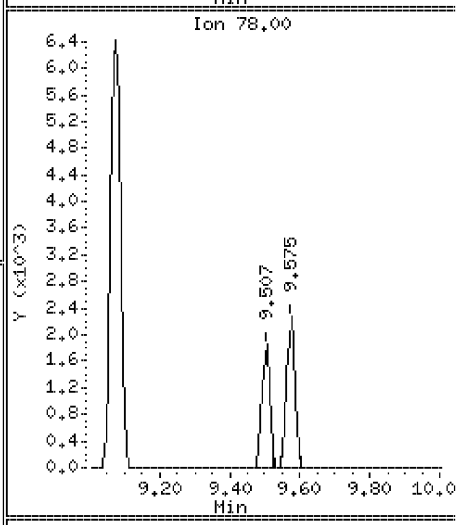
73 Styrene

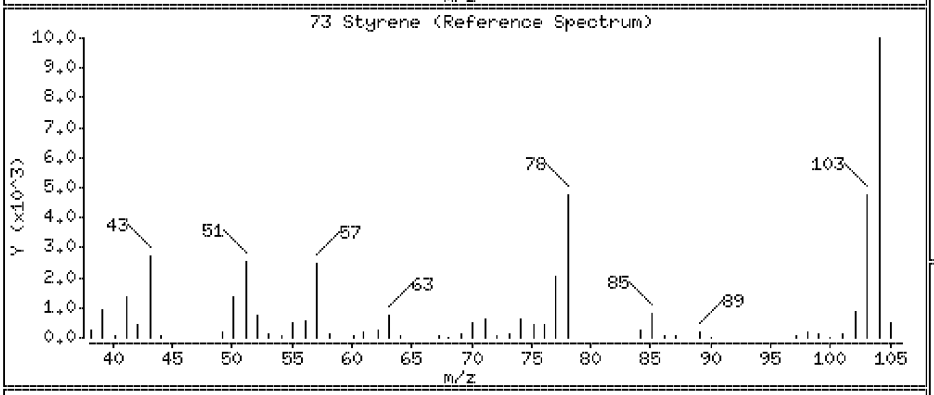
Concentration: 0.464 ppbv

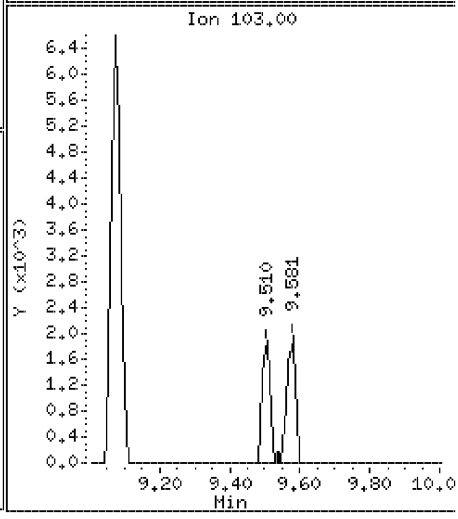


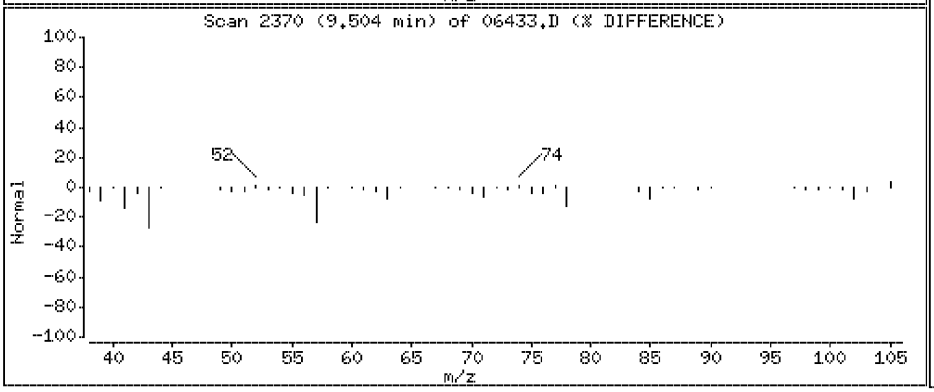












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

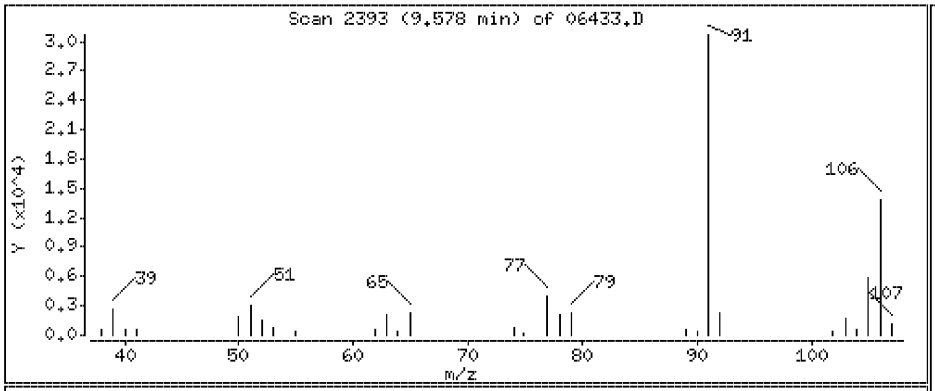
Operator: NCK

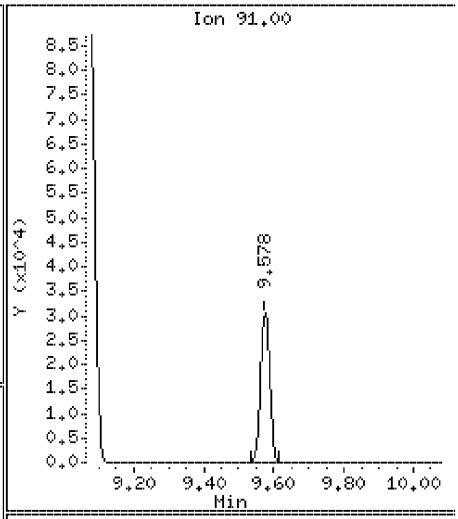
Column phase: J&W DB-5

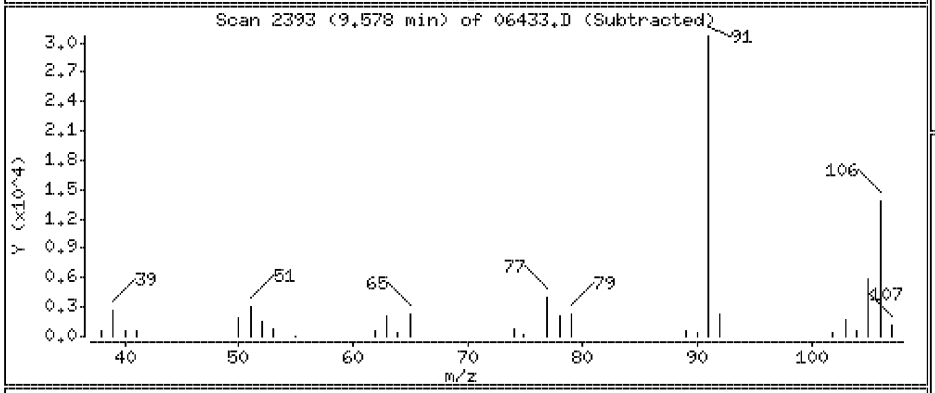
Column diameter: 0.32

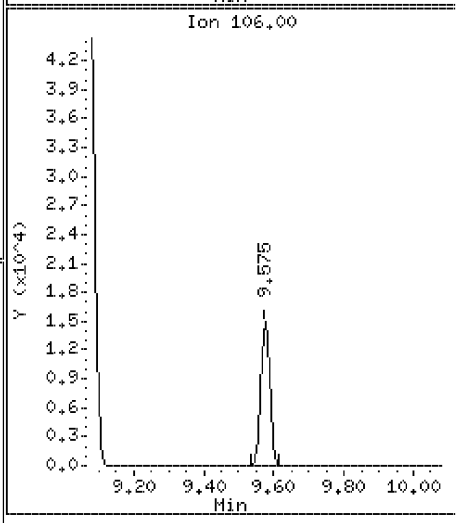
74 o-Xylene

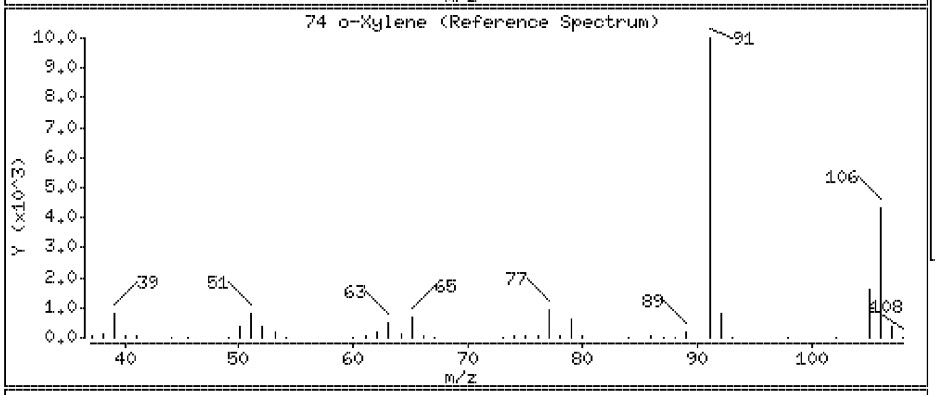
Concentration: 2.35 ppbv

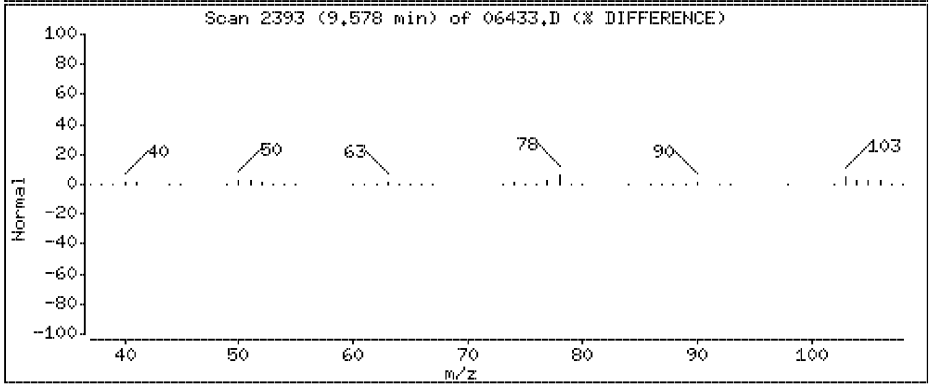












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

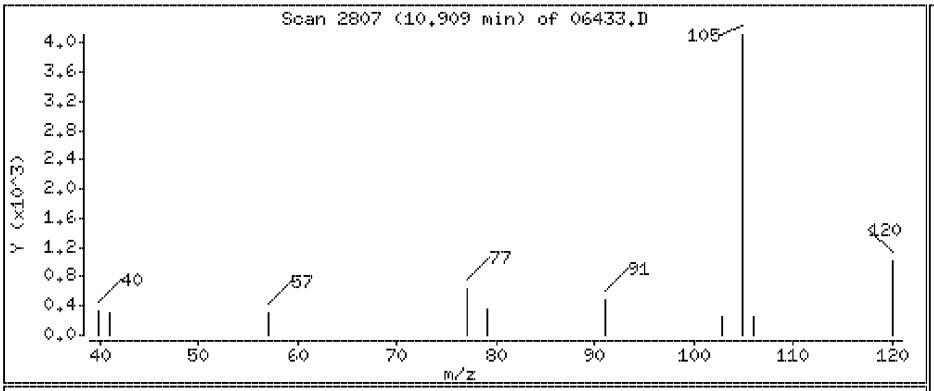
Operator: NCK

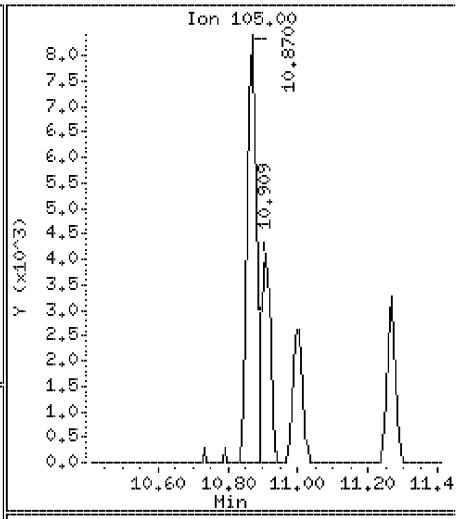
Column phase: J&W DB-5

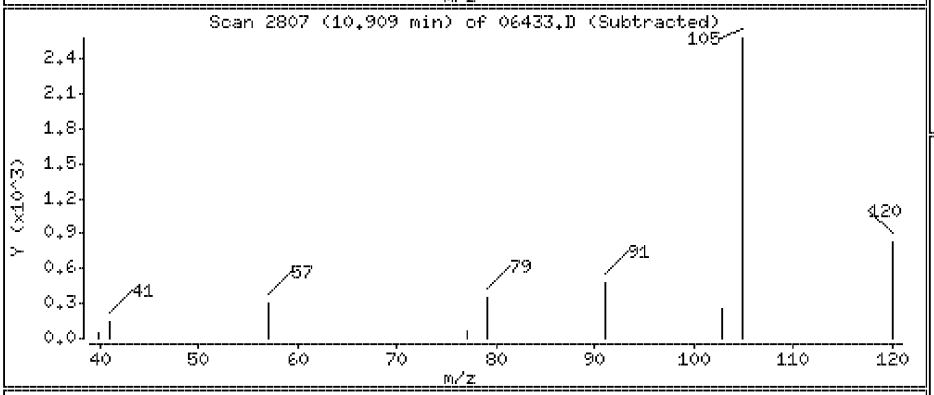
Column diameter: 0.32

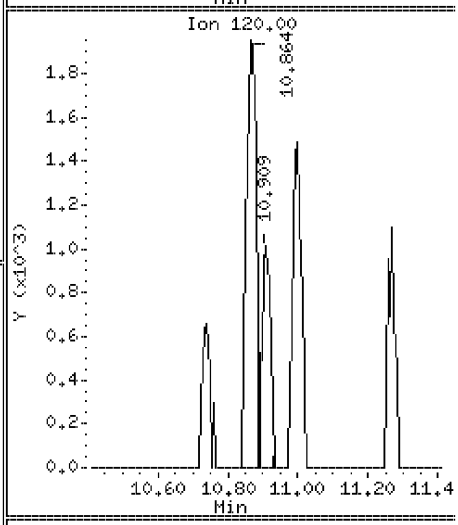
78 4-Ethyltoluene

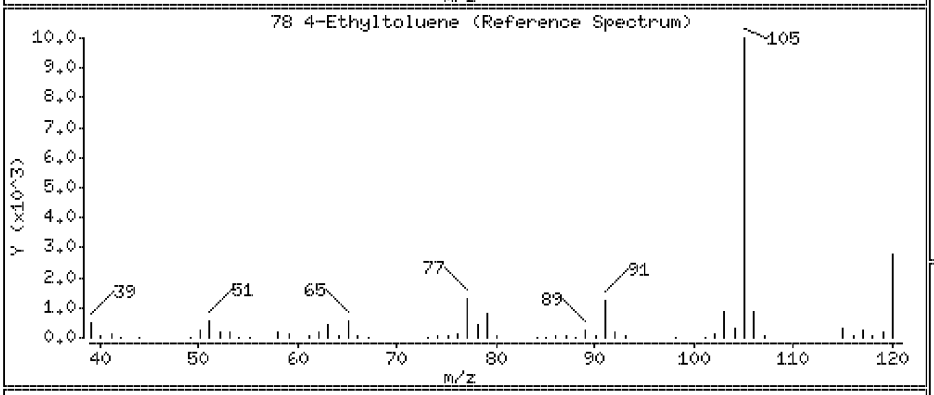
Concentration: 0.416 ppbv

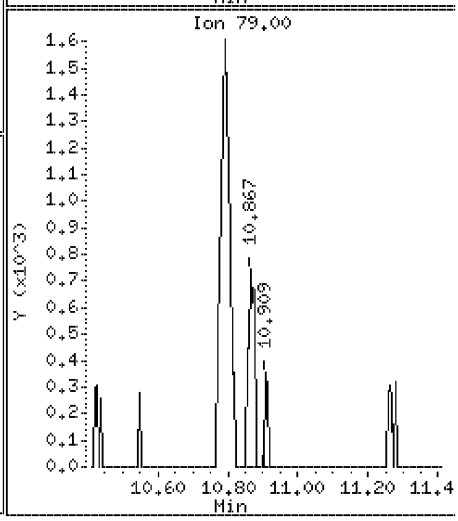


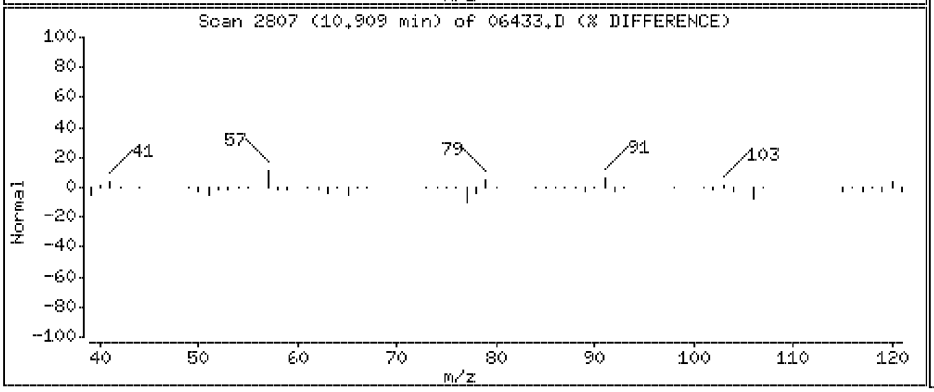












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

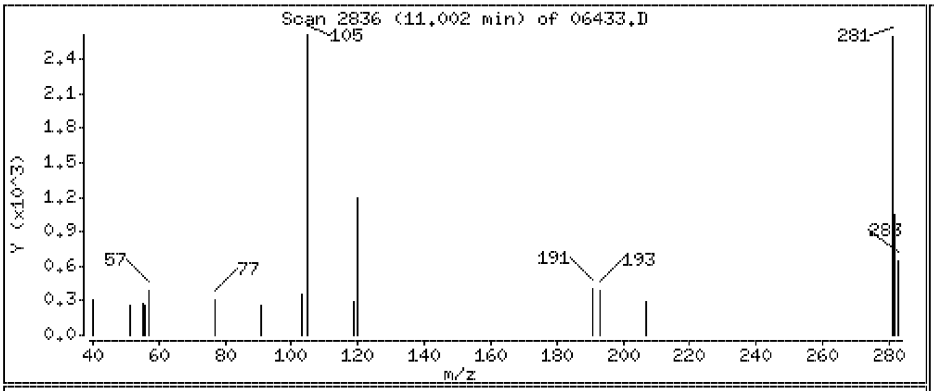
Operator: NCK

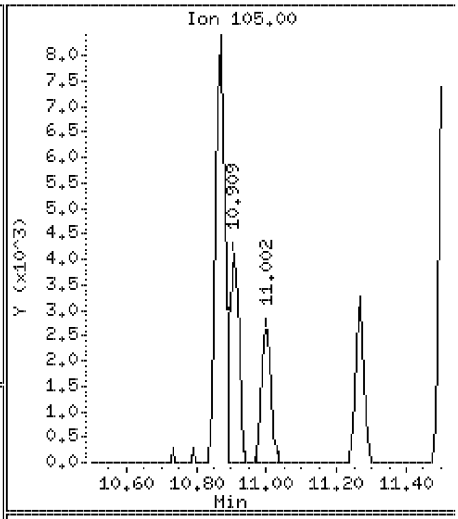
Column phase: J&W DB-5

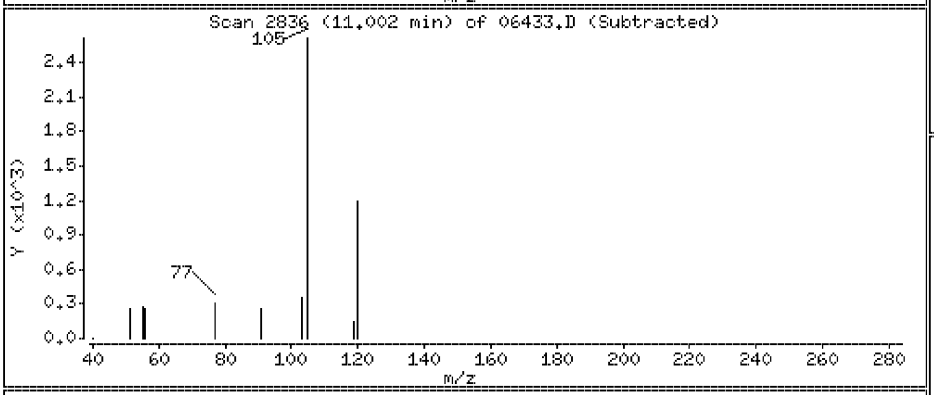
Column diameter: 0.32

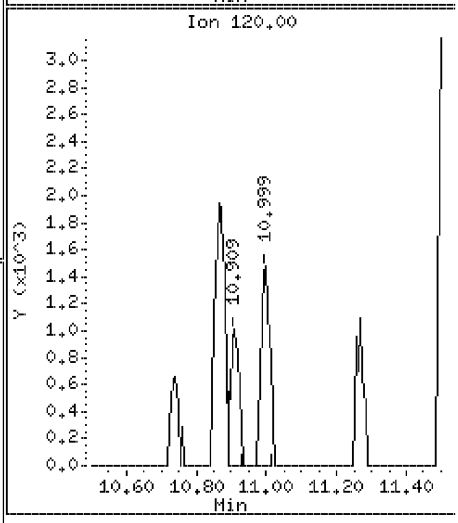
79 1,3,5-Trimethylbenzene

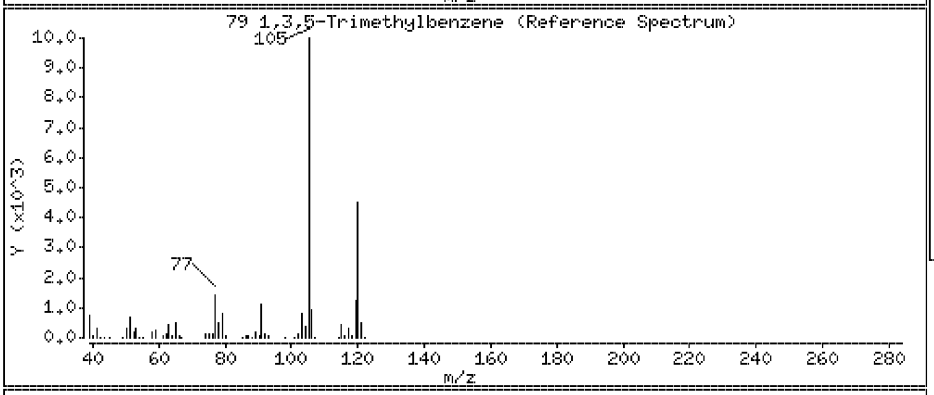
Concentration: 0.213 ppbv

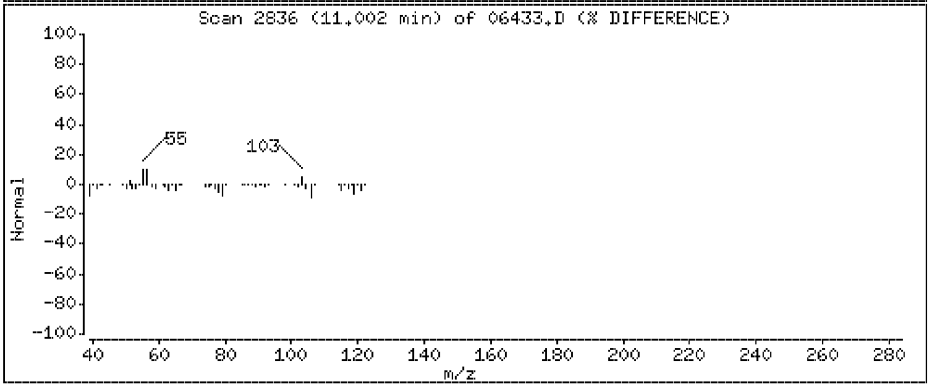












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

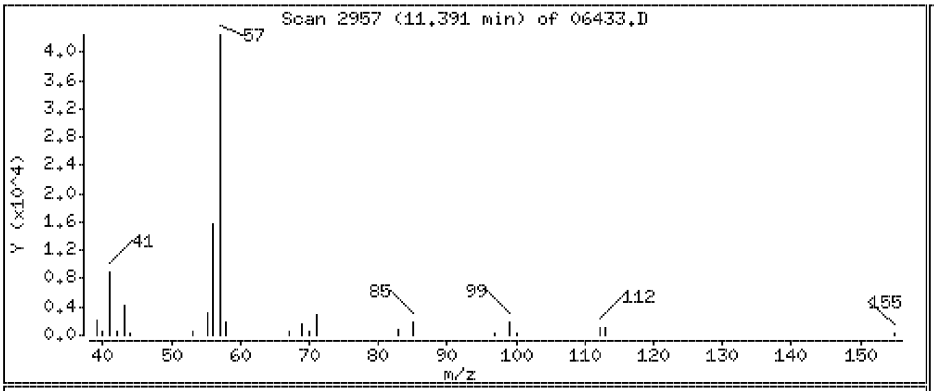
Operator: NCK

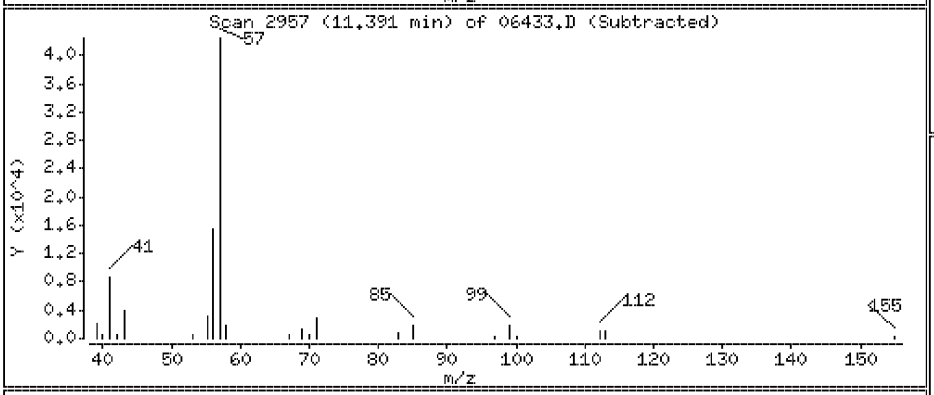
Column phase: J&W DB-5

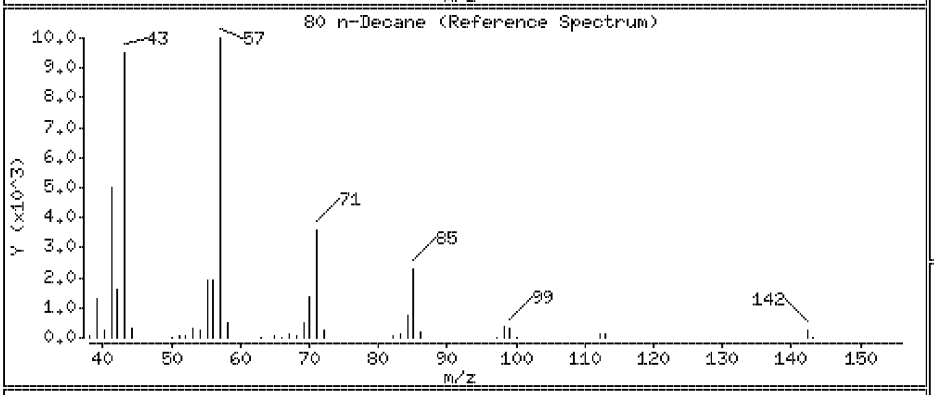
Column diameter: 0.32

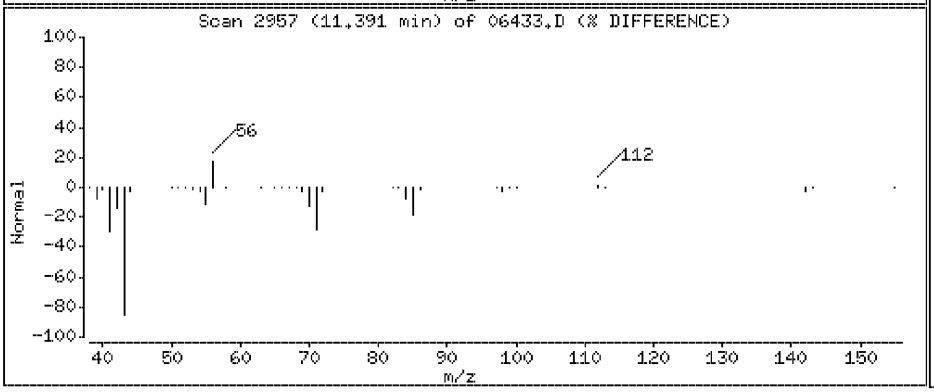
80 n-Decane

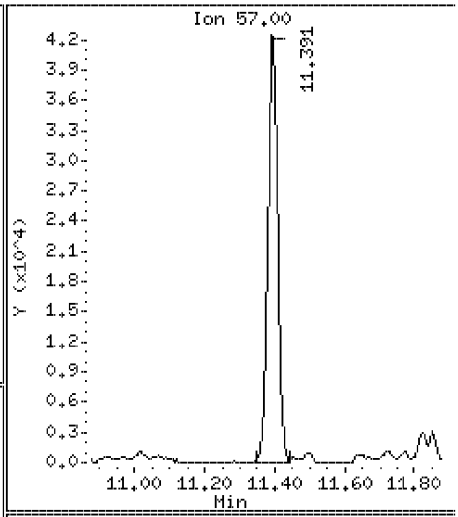
Concentration: 5.86 ppbv

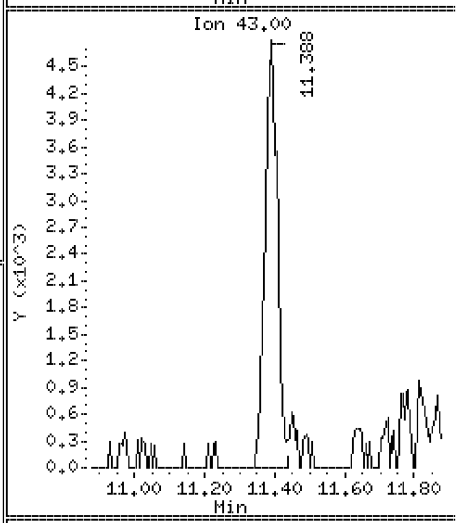


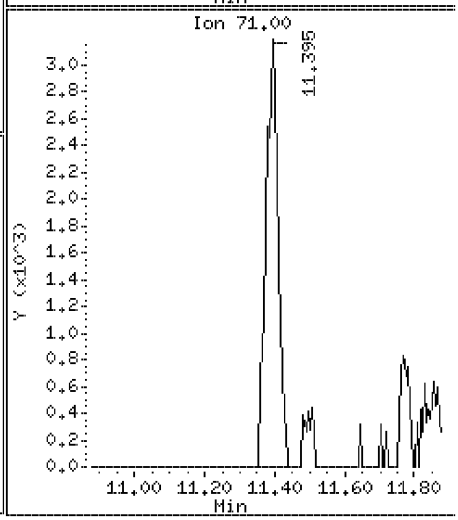












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

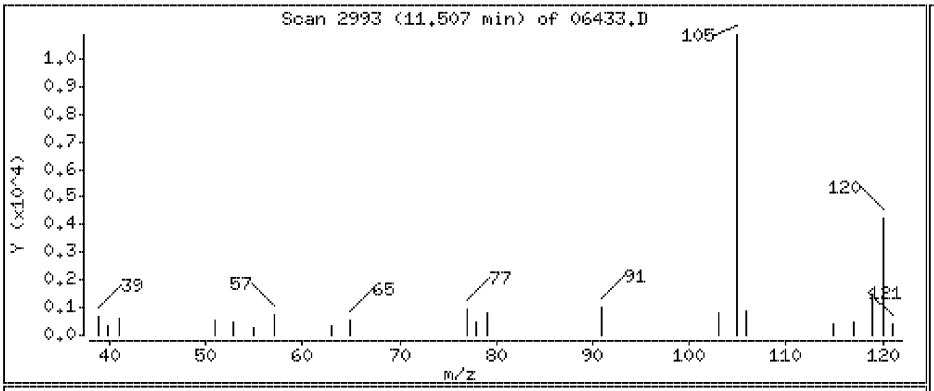
Operator: NCK

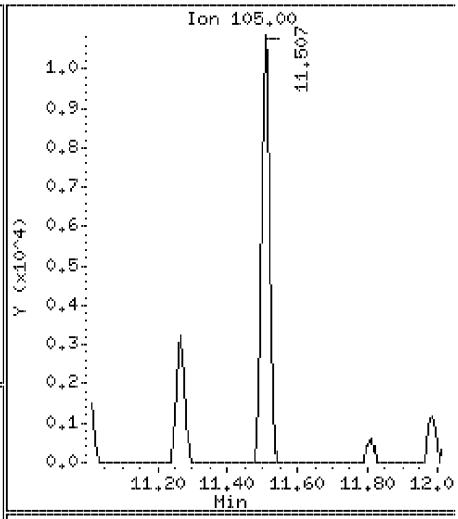
Column phase: J&W DB-5

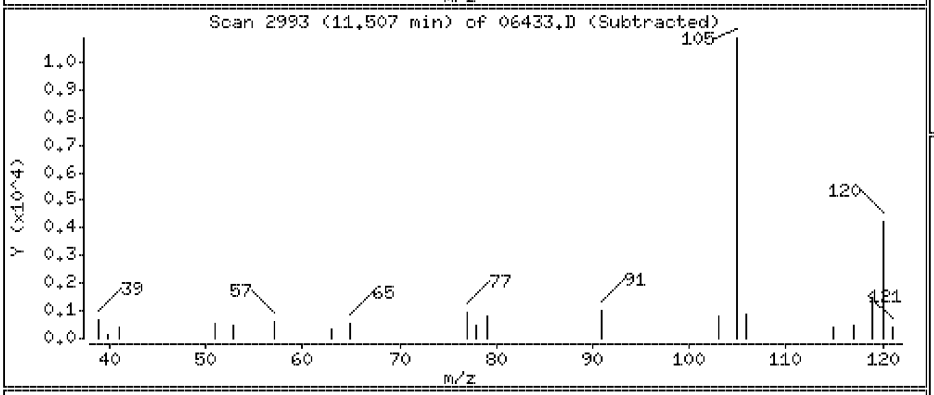
Column diameter: 0.32

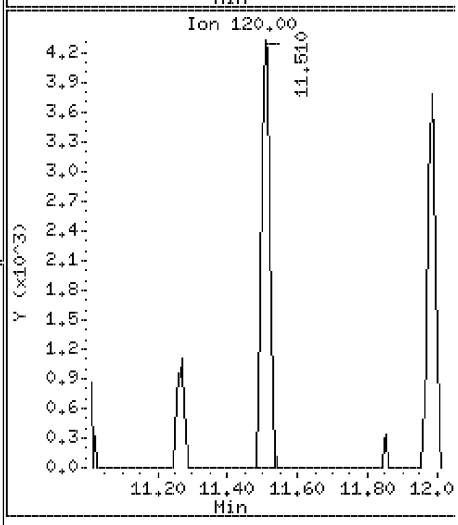
82 1,2,4-Trimethylbenzene

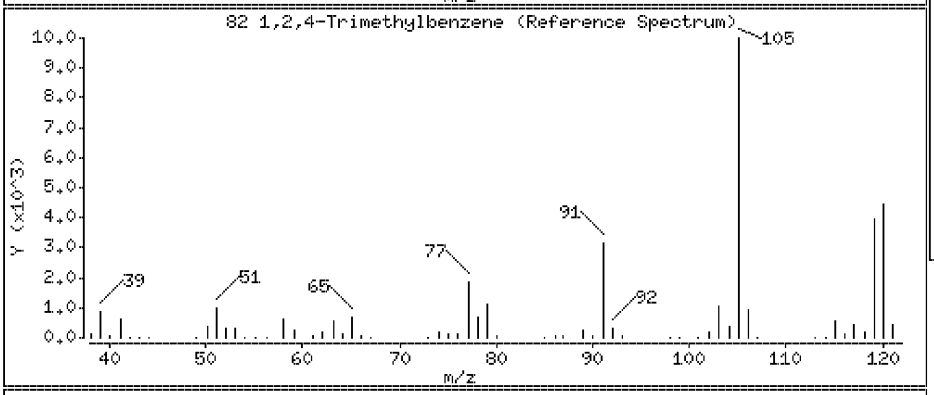
Concentration: 0.711 ppbv

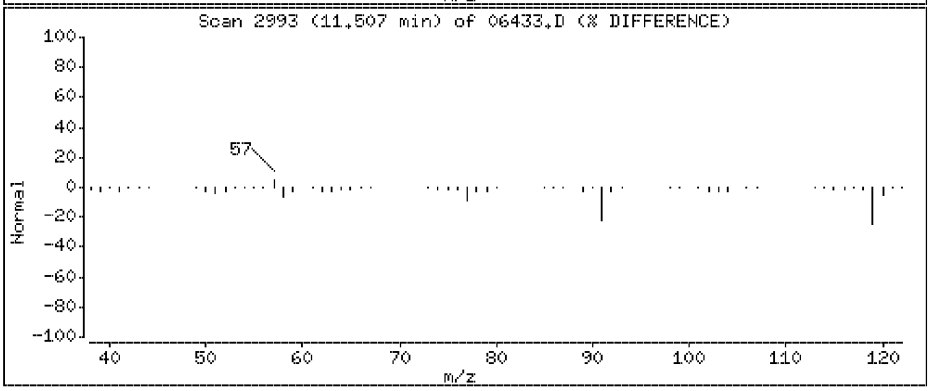












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

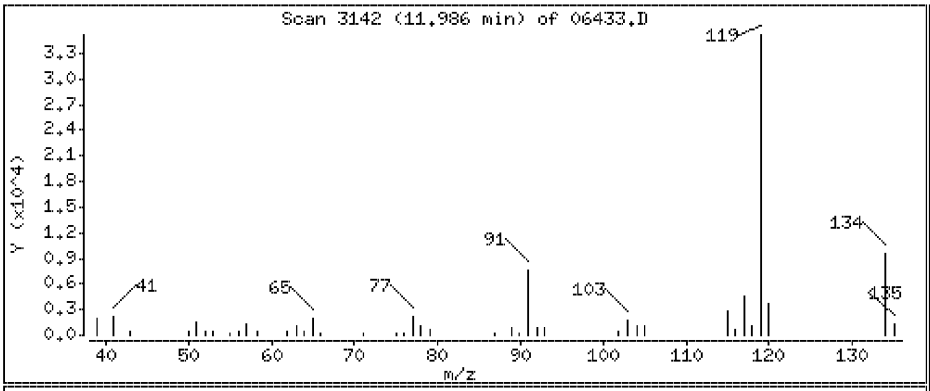
Operator: NCK

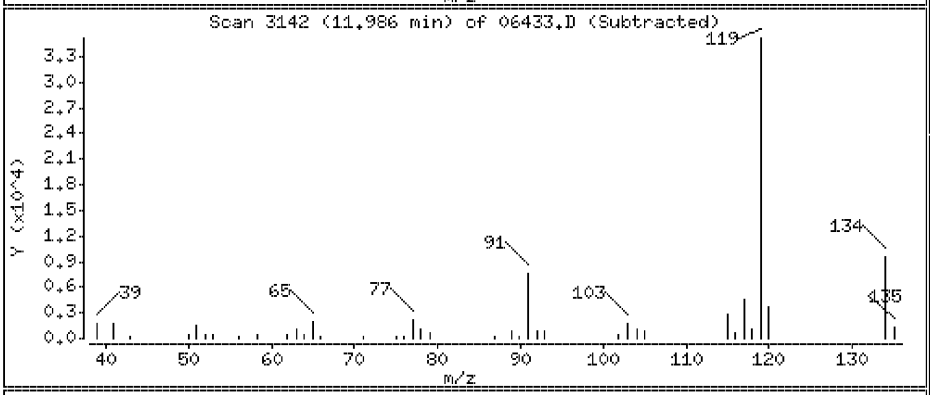
Column phase: J&W DB-5

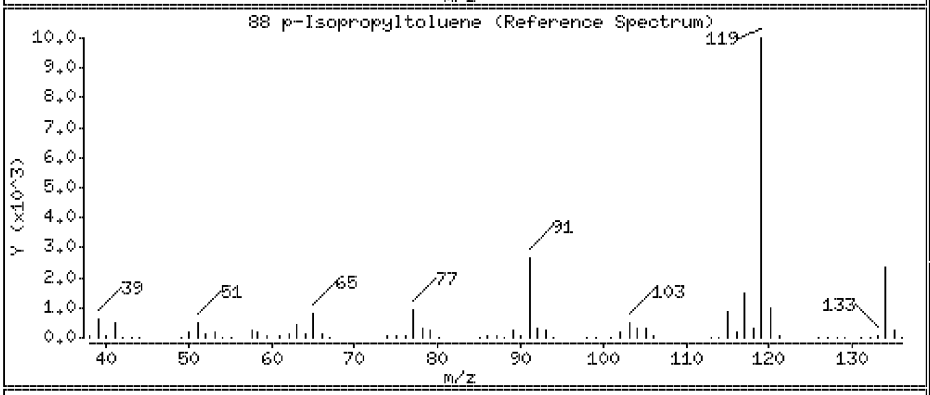
Column diameter: 0.32

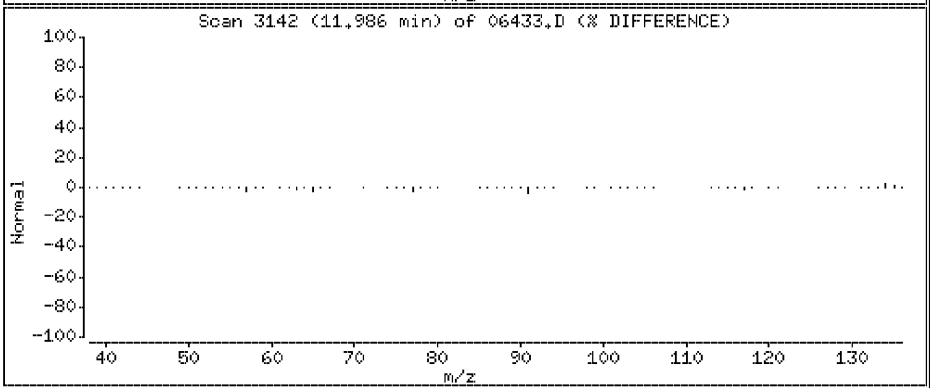
88 p-Isopropyltoluene

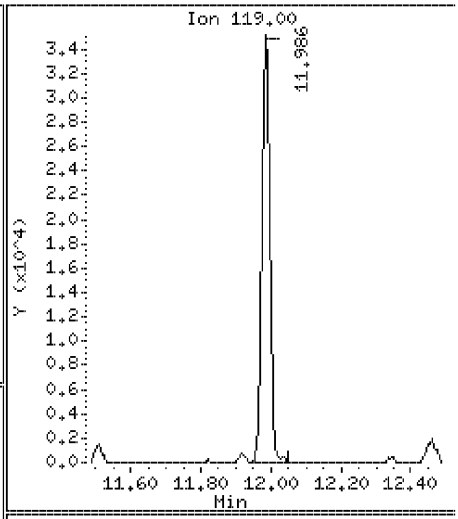
Concentration: 1.69 ppbv

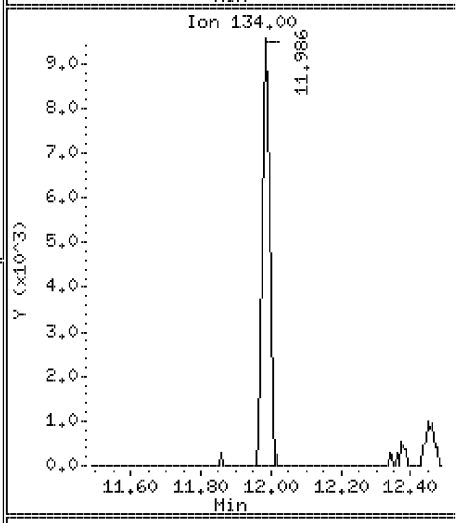


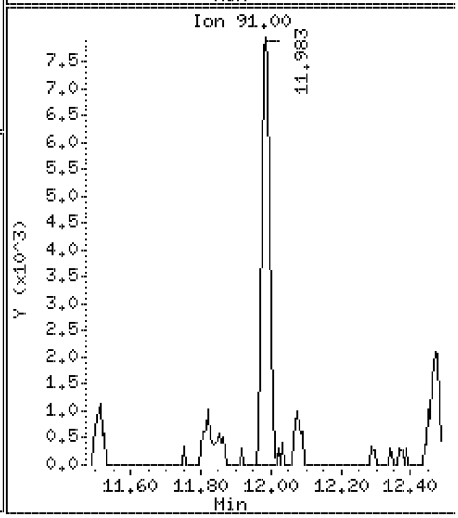












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06433.D

Date : 06-MAR-2017 01:43

Client ID:

Instrument: 10airB.i

Sample Info:

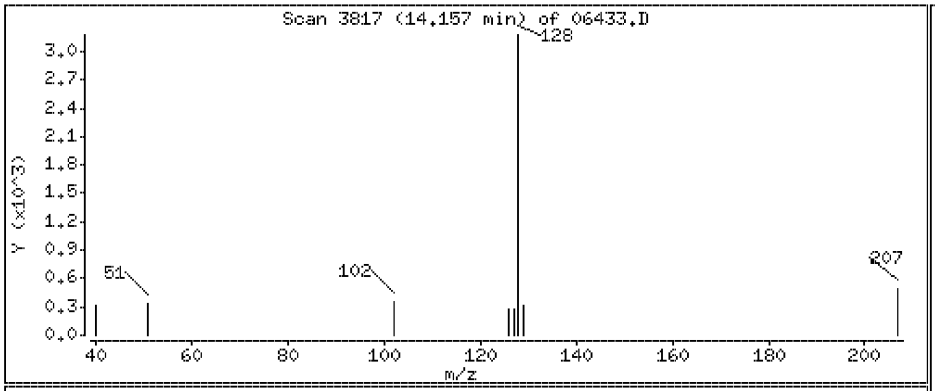
Operator: NCK

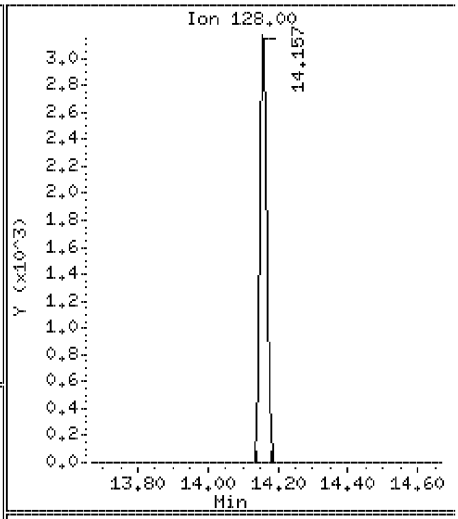
Column phase: J&W DB-5

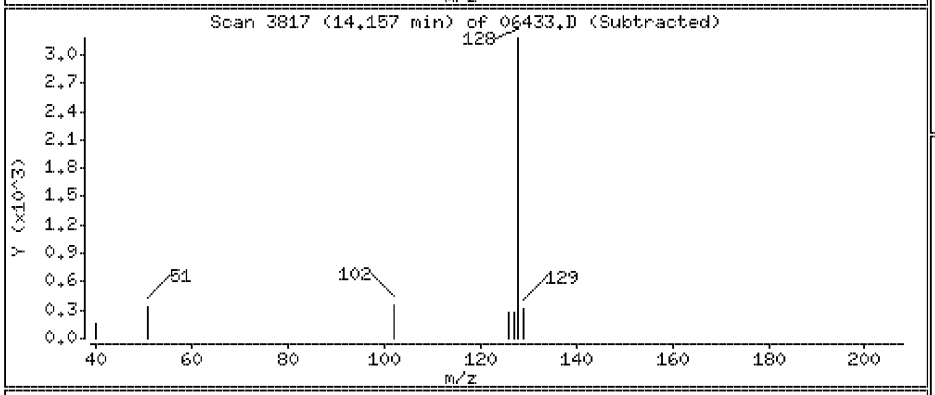
Column diameter: 0.32

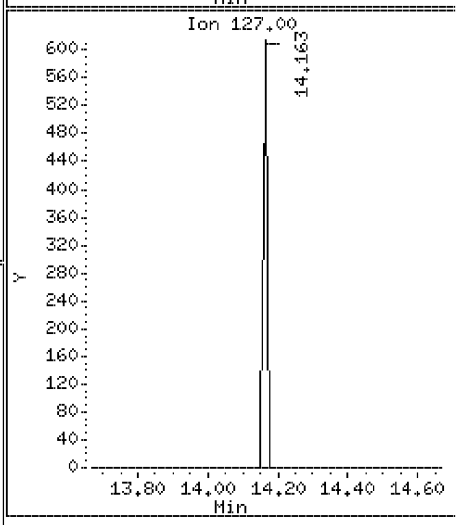
94 Naphthalene

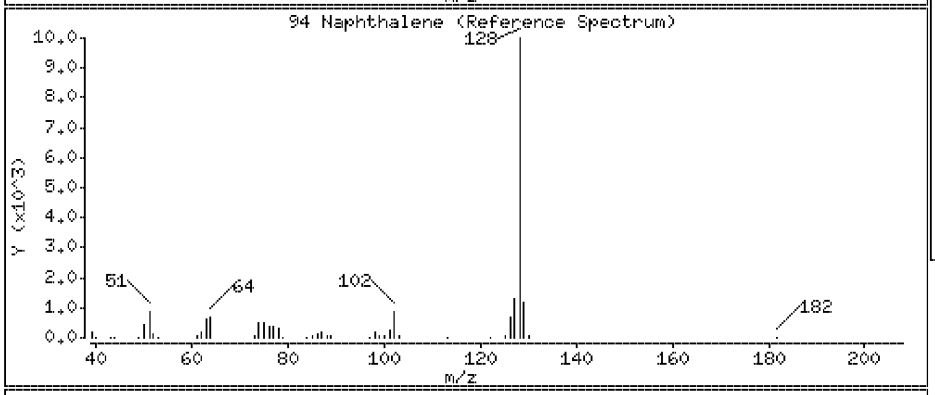
Concentration: 0.983 ppbv

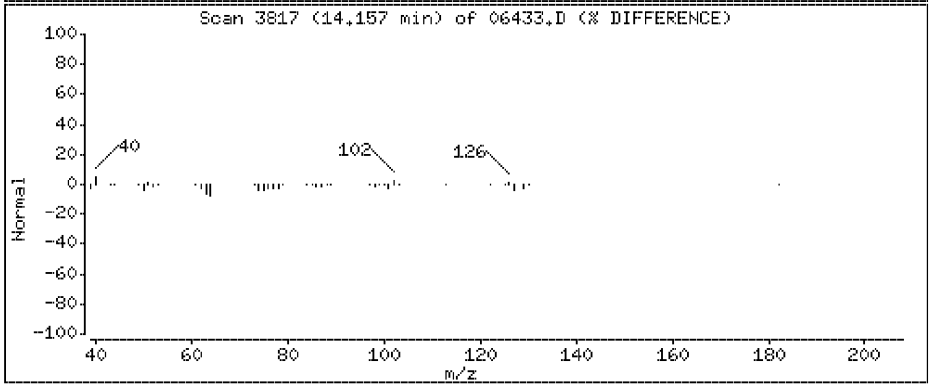






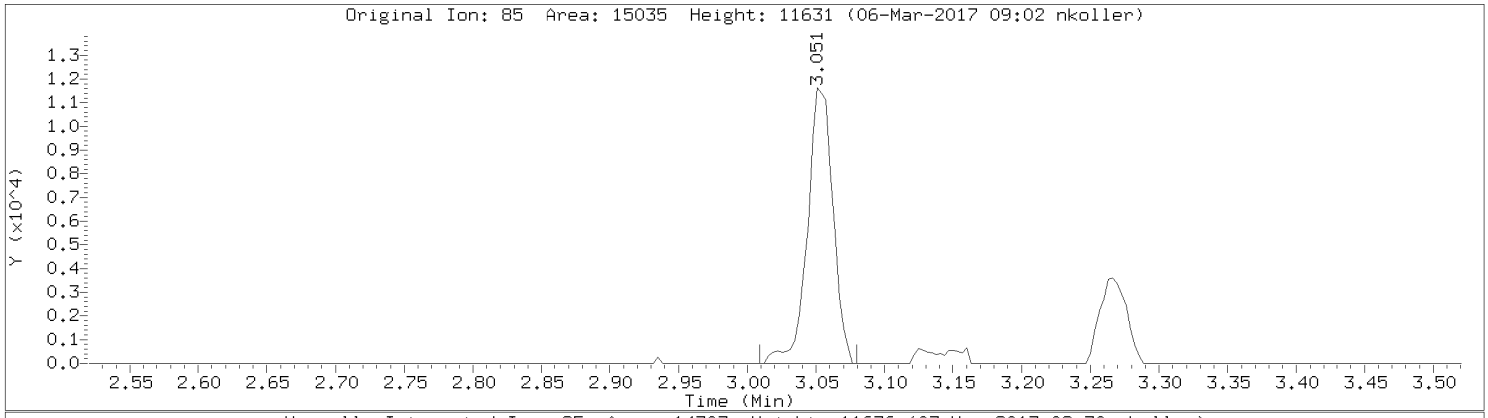


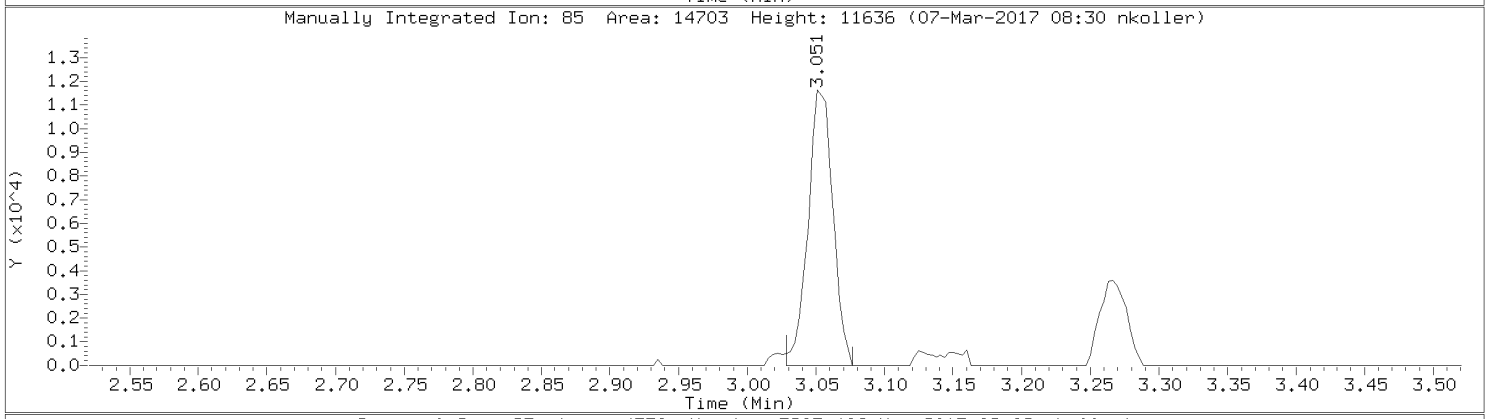


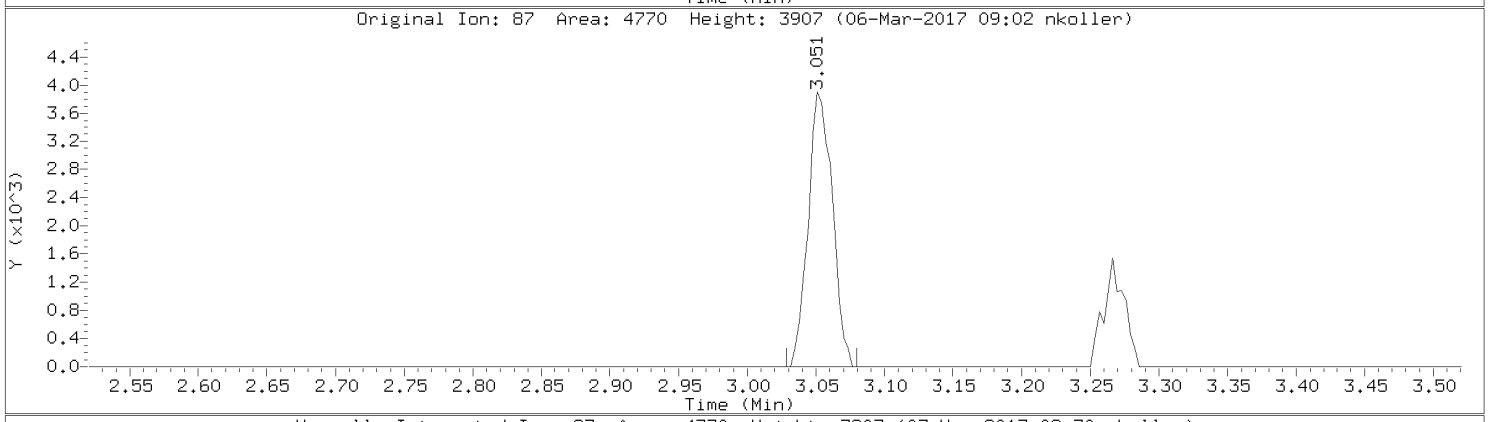


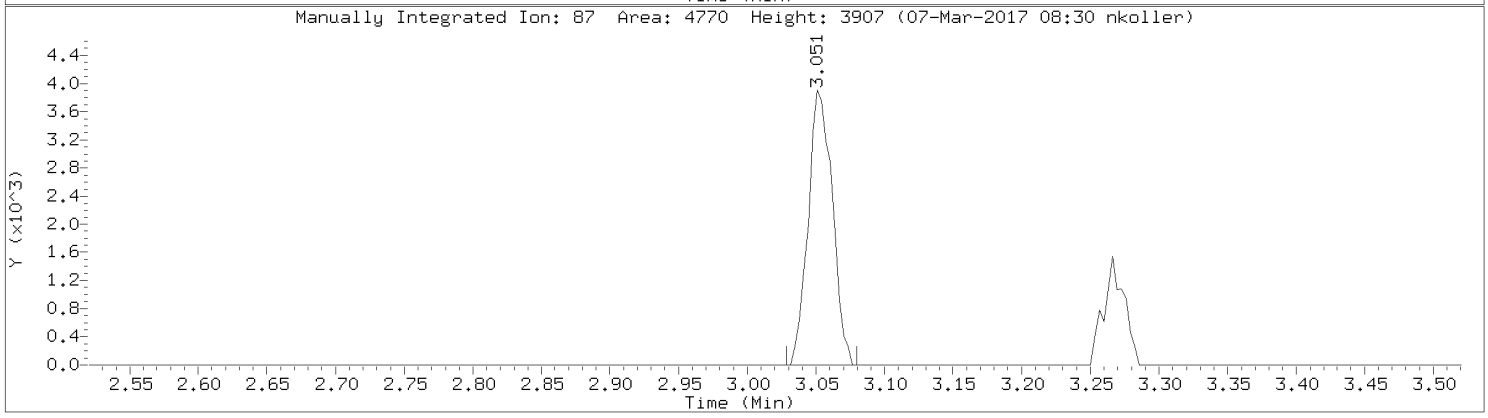
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06433.D
Injection Date: 06-MAR-2017 01:43
Instrument: 10airB.i
Lab Sample ID: 10380193013

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



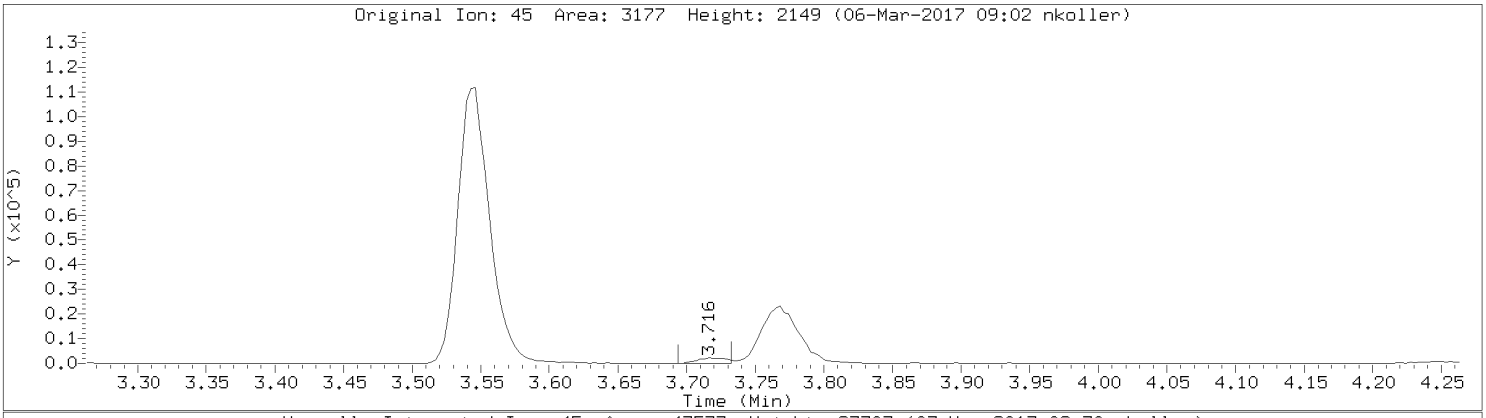


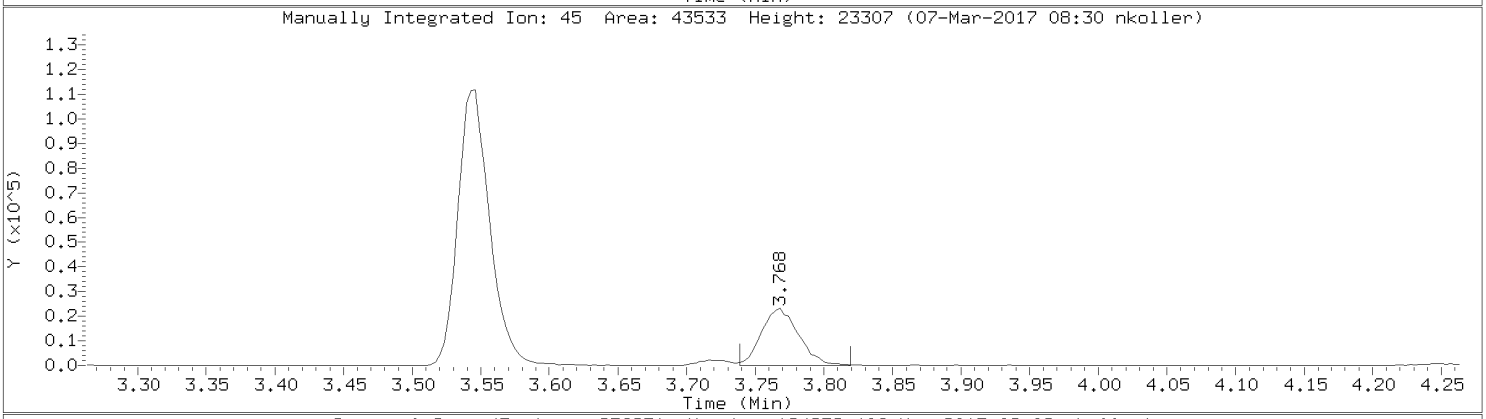


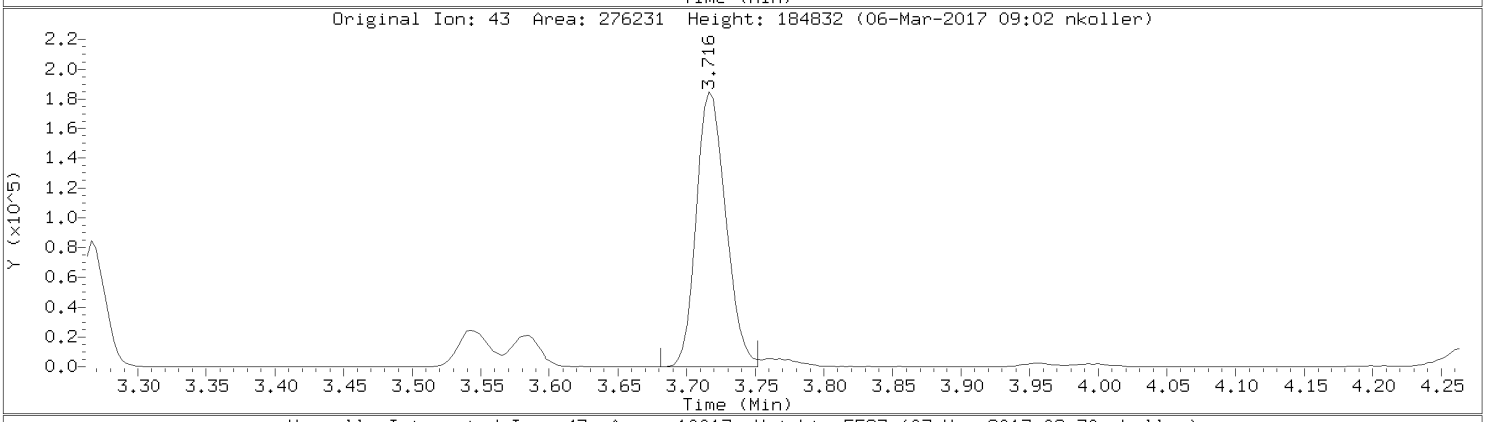


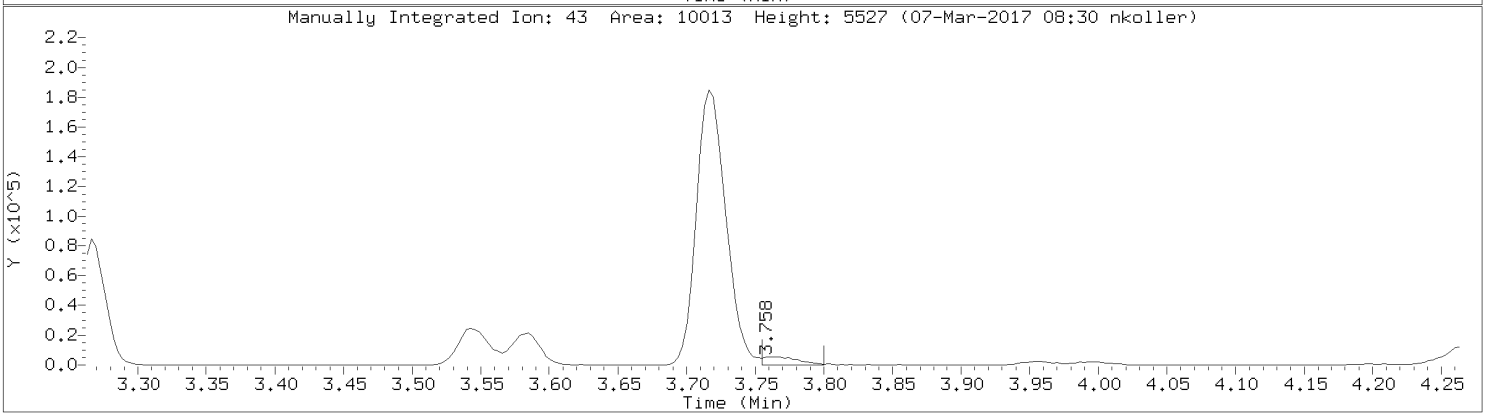
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06433.D
Injection Date: 06-MAR-2017 01:43
Instrument: 10airB.i
Lab Sample ID: 10380193013

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_5_20170223 **Lab ID: 10380193013** Collected: 02/23/17 12:50 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,2-Trichloroethane	**<0.52**	ug/m3	1.2	0.52	2.12		03/06/17 01:43	79-00-5	
Trichloroethene	**49.9**	ug/m3	1.2	0.59	2.12		03/06/17 01:43	79-01-6	
Trichlorofluoromethane	**2.2J**	ug/m3	2.4	0.28	2.12		03/06/17 01:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.5J**	ug/m3	3.4	0.64	2.12		03/06/17 01:43	76-13-1	
1,2,4-Trimethylbenzene	**3.6**	ug/m3	2.1	0.26	2.12		03/06/17 01:43	95-63-6	
1,3,5-Trimethylbenzene	**1.1J**	ug/m3	2.1	0.39	2.12		03/06/17 01:43	108-67-8	
Vinyl chloride	**<0.41**	ug/m3	0.55	0.41	2.12		03/06/17 01:43	75-01-4	
m&p-Xylene	**36.4**	ug/m3	3.8	1.7	2.12		03/06/17 01:43	179601-23-1	
o-Xylene	**10.4**	ug/m3	1.9	0.74	2.12		03/06/17 01:43	95-47-6	

Sample: VP-105_10_20170223 **Lab ID: 10380193014** Collected: 02/23/17 12:49 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.0**	ug/m3	4.2	1.5	1.75		03/07/17 18:33	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/07/17 18:33	107-05-1	
Benzene	**3.2**	ug/m3	0.57	0.21	1.75		03/07/17 18:33	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/07/17 18:33	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/07/17 18:33	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/07/17 18:33	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/07/17 18:33	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/07/17 18:33	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/07/17 18:33	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/07/17 18:33	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/07/17 18:33	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/07/17 18:33	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/07/17 18:33	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/07/17 18:33	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/07/17 18:33	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/07/17 18:33	76-15-3	
Cyclohexane	**120**	ug/m3	12.2	5.5	17.5		03/07/17 01:33	110-82-7	
Cyclohexane	**275**	ug/m3	1.2	0.55	1.75		03/07/17 18:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/07/17 18:33	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/07/17 18:33	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/07/17 18:33	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/07/17 18:33	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/07/17 18:33	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/07/17 18:33	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.8	0.84	1.75		03/07/17 18:33	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/07/17 18:33	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/07/17 18:33	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/07/17 18:33	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/07/17 18:33	156-59-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06534.D
Report Date: 10-Mar-2017 12:10

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06534.D
Lab Smp Id: 10380193014
Inj Date : 07-MAR-2017 01:33
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27858
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 15:53 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 34
Dil Factor: 17.50000
Integrator: HP RTE Compound Sublist: cyclohex.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	17.500	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
45 Cyclohexane	56	5.484	5.491	(0.979)	43770	1.96347	34.4(Q)
34 n-Hexane	57	4.584	4.587	(0.819)	103022	4.67887	81.9(Q)
* 47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1380790	10.0000	
* 67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	913748	10.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06534.D
Report Date: 10-Mar-2017 12:10

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06534.D
Lab Smp Id: 10380193014
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27858

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1380790	-2.36
67 Chlorobenzene - d	951026	570616	1331436	913748	-3.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

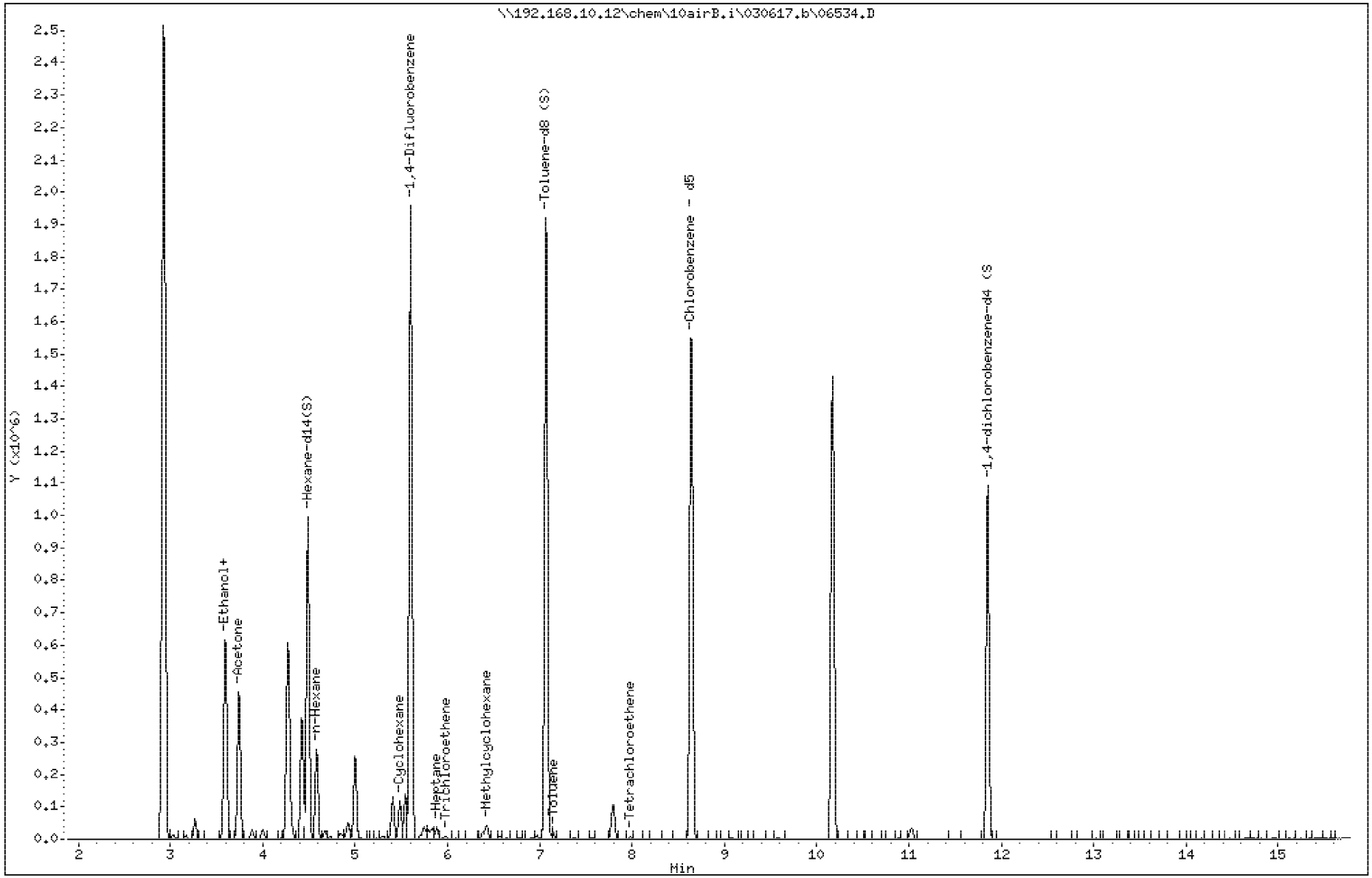
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06534.D
Date : 07-MAR-2017 01:33
Client ID:
Sample Info:

Column phase: J&W DB-5

Instrument: 10airB.i

Operator: NCK
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06534.D

Date : 07-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

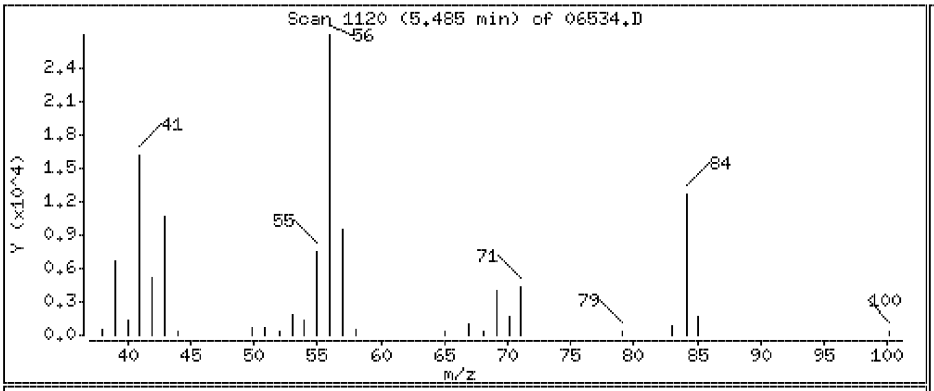
Operator: NCK

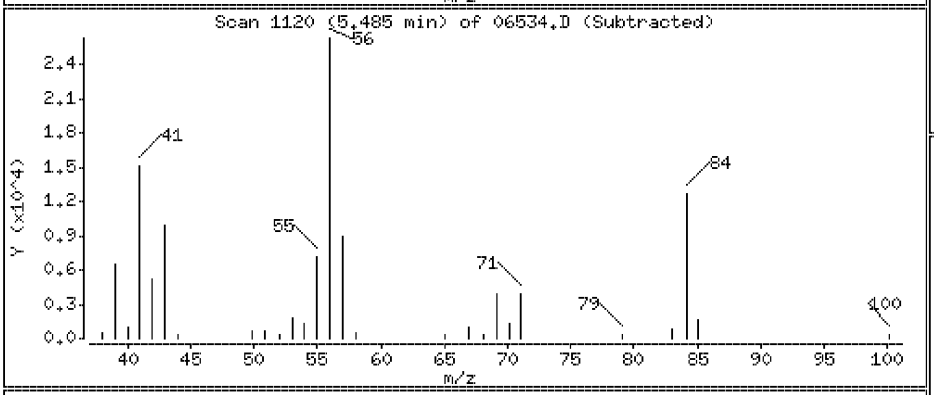
Column phase: J&W DB-5

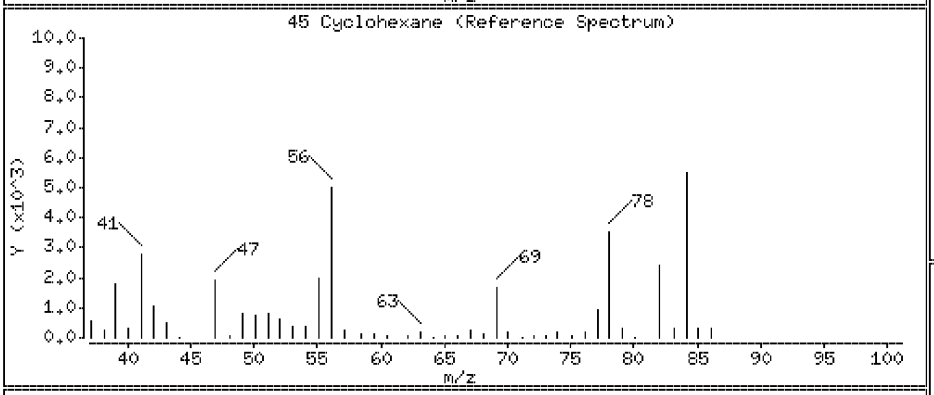
Column diameter: 0.32

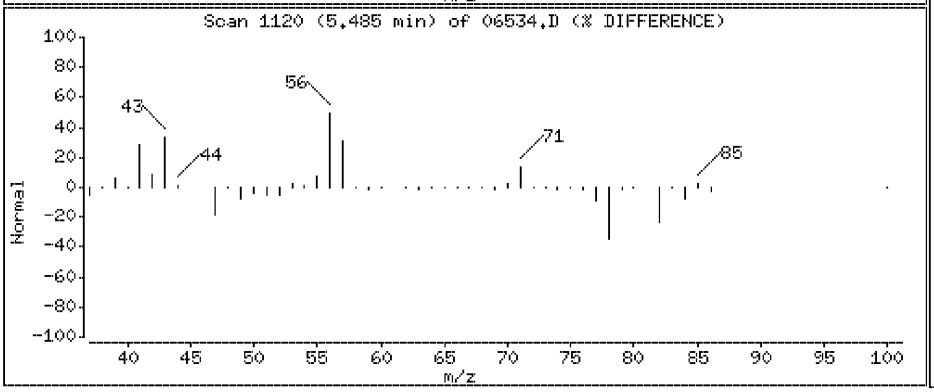
45 Cyclohexane

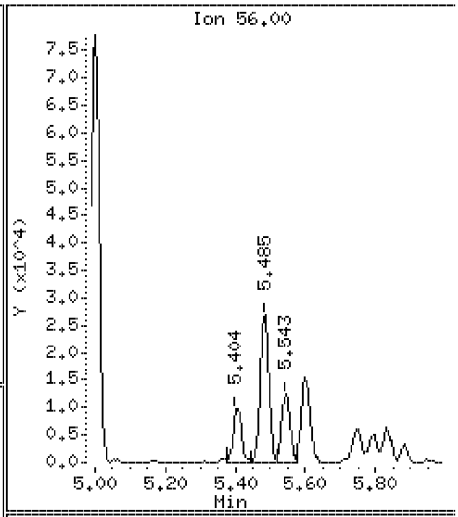
Concentration: 34.4 ppbv

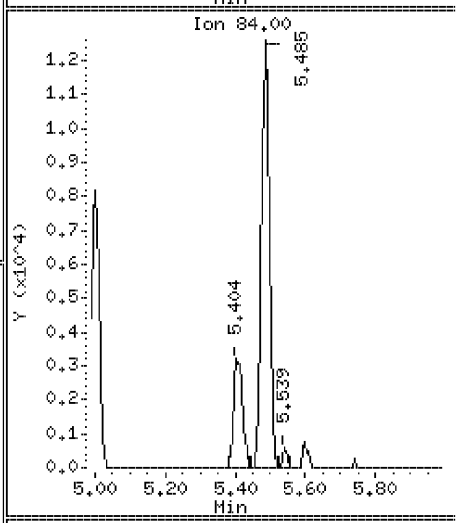


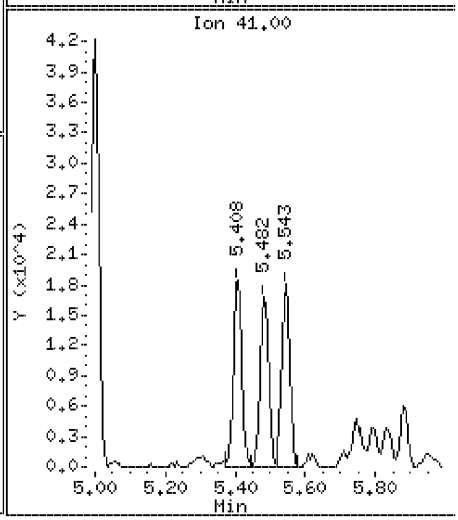












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06534.D

Date : 07-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

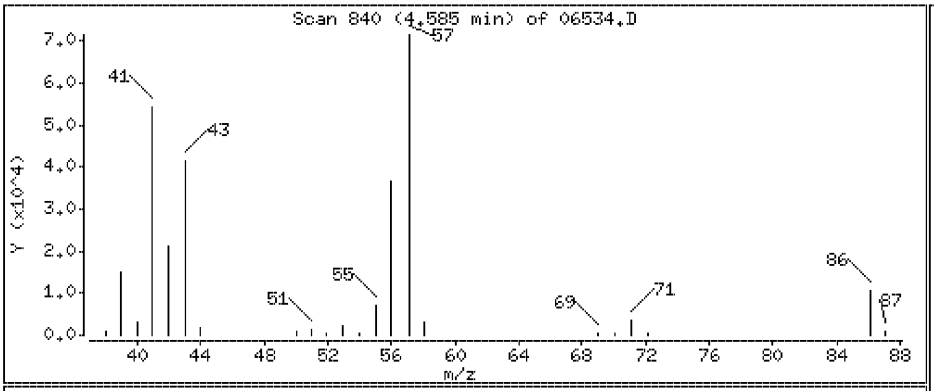
Operator: NCK

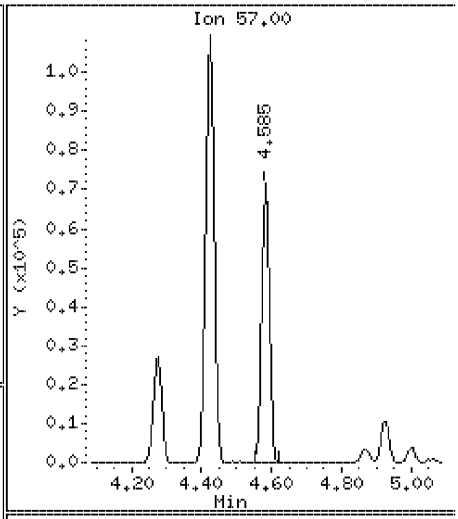
Column phase: J&W DB-5

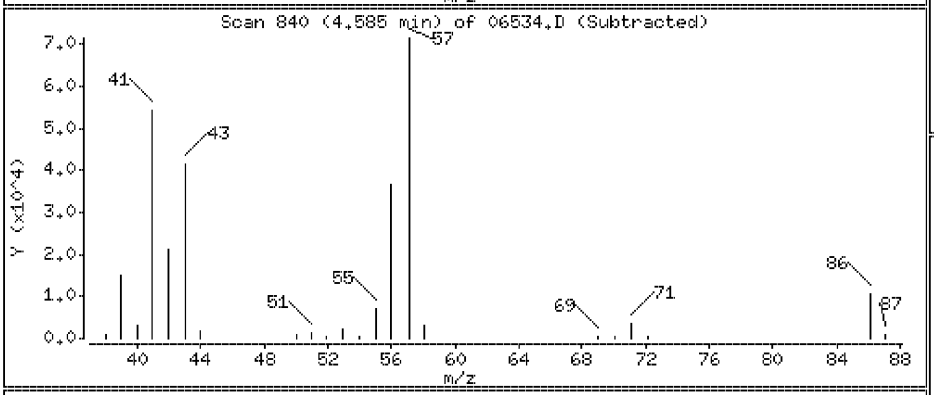
Column diameter: 0.32

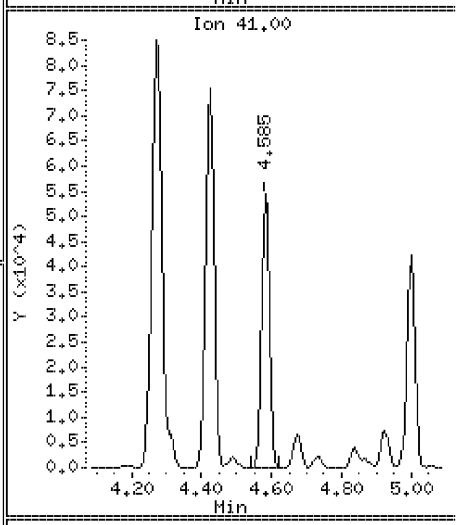
34 n-Hexane

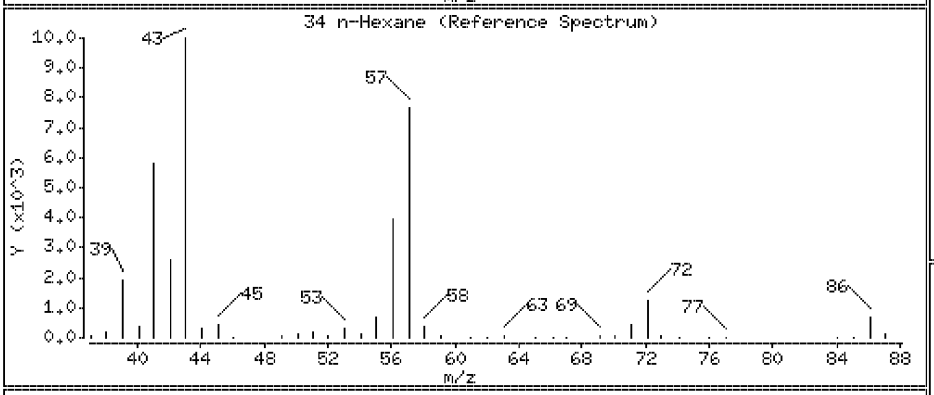
Concentration: 81.9 ppbv

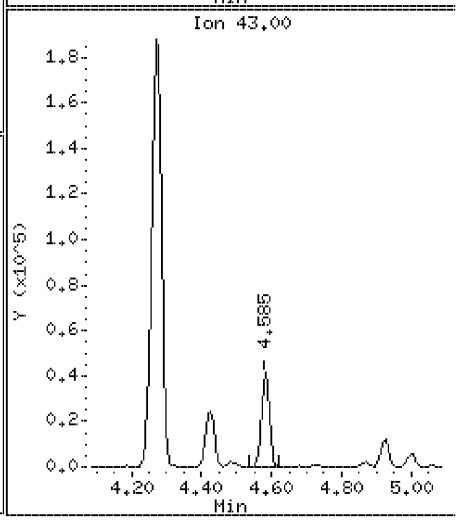


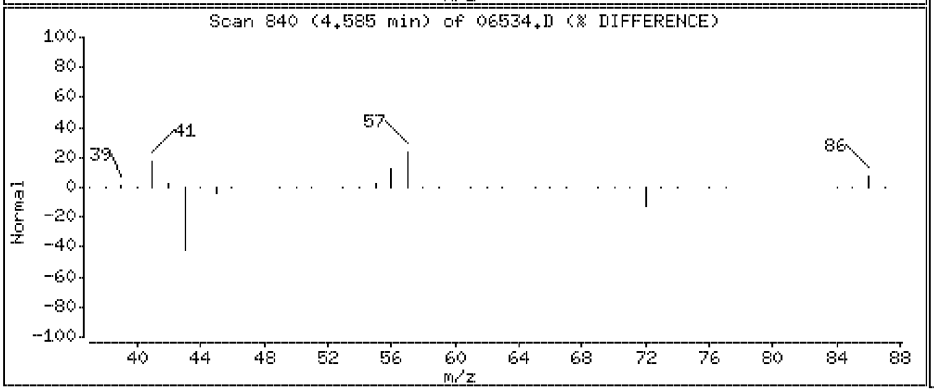












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06534.D
Injection Date: 07-MAR-2017 01:33
Instrument: 10airB.i
Lab Sample ID: 10380193014
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D
Report Date: 08-Mar-2017 09:11

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030717.b\06622.D
Lab Smp Id: 10380193014
Inj Date : 07-MAR-2017 18:33
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27858
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Meth Date : 08-Mar-2017 09:09 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 22
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.979	2.986	(0.531)	3977	0.51316	0.898(QM)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.024	3.028	(0.539)	12105	0.24556	0.430	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.539	3.539	(0.631)	15473	3.18556	5.57	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.622	3.584	(0.645)	3415627	259.920	455(A)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.667	3.661	(0.653)	4343	0.11984	0.210(M)	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.713	3.713	(0.661)	64294	3.06539	5.36(H)	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D
Report Date: 08-Mar-2017 09:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.989	3.999	(0.711)	7960	0.53770	0.941	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.516	4.481	(0.805)	356910	8.48631	8.49	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.610	4.578	(0.821)	1861854	88.3244	155(AQH)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	5.471	5.465	(0.975)	23661	0.55500	0.971	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.507	5.487	(0.981)	959634	44.9653	78.7(AQ)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.613	5.610	(1.000)	1321914	10.0000		
	48 2,2,4-Trimethylpentane	57	5.780	5.770	(1.030)	206656	3.12955	5.48(Q)	
	49 Heptane	43	5.902	5.889	(1.052)	297219	12.4768	21.8	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.995	5.986	(1.068)	11201	0.50431	0.883	
	52 Methyl methacrylate	69	6.063	6.044	(1.080)	8997	0.62279	1.09	
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	6.442	6.430	(1.148)	144907	11.9714	20.9	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.079	7.076	(1.261)	1145706	9.68353	9.68	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.156	7.150	(1.275)	118152	2.21300	3.87	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.577	7.584	(0.877)	13767	0.46177	0.808(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.989	7.986	(0.924)	22353	0.73854	1.29	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	871623	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.934	(1.033)	9443	0.14730	0.258	
	70 m&p-Xylene	91	9.076	9.082	(1.050)	33010	0.65603	1.15	
	71 n-Nonane	43	9.500	9.471	(1.099)	9154	0.35272	0.617(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.503	9.507	(1.100)	1379	0.10870	0.190	
	74 o-Xylene	91	9.577	9.581	(1.108)	7830	0.15296	0.268	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D
Report Date: 08-Mar-2017 09:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.902	10.912	(1.262)	2553	0.13319	0.233	(M)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.384	11.378	(2.028)	2582	0.31165	0.545	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.510	11.513	(1.332)	6666	0.12874	0.225	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	507988	10.5798	10.6	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.169	(1.640)	5450	0.49026	0.858	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D
Report Date: 08-Mar-2017 09:11

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06622.D
Lab Smp Id: 10380193014
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Misc Info: 27858

Calibration Date: 07-MAR-2017
Calibration Time: 08:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

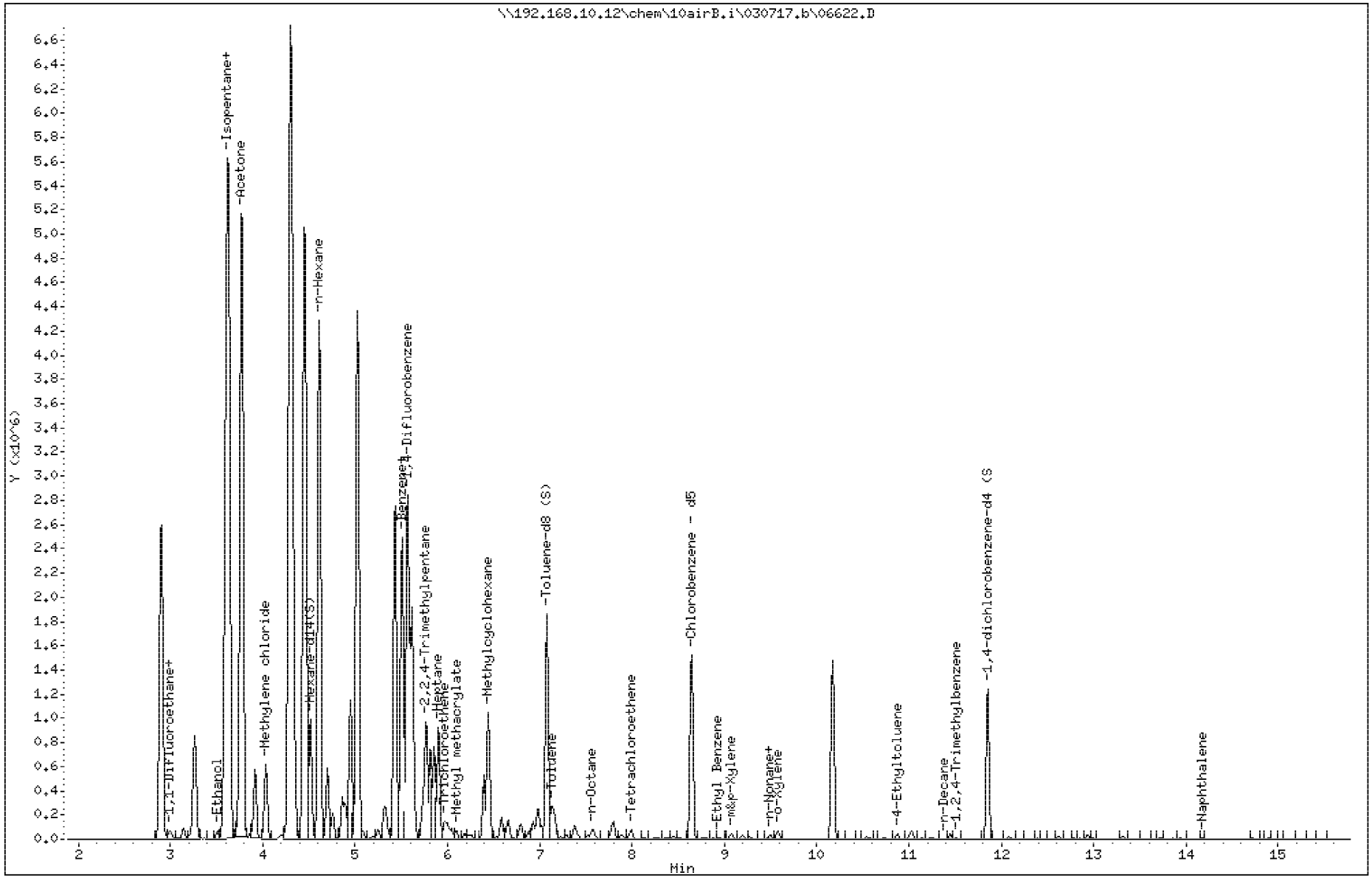
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1321914	-6.52
67 Chlorobenzene - d	951026	570616	1331436	871623	-8.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D
Date : 07-MAR-2017 18:33
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

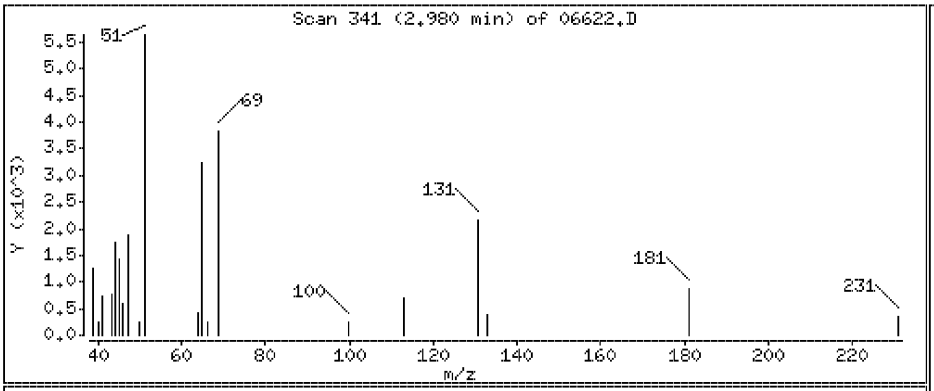
Operator: NCK

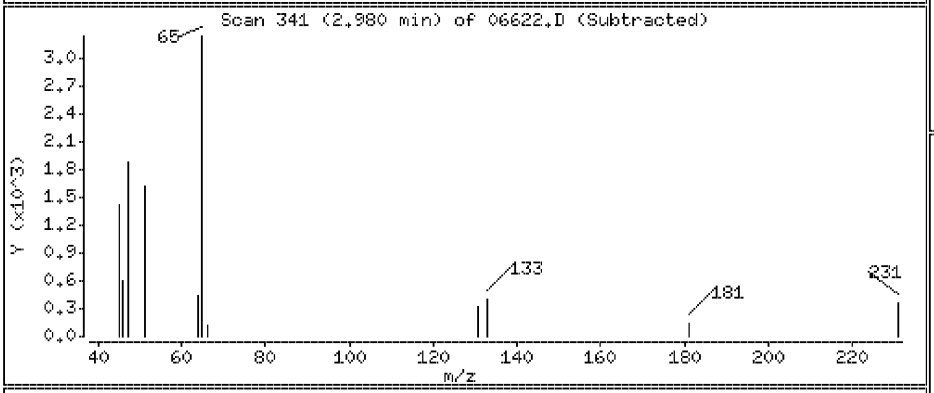
Column phase: J&W DB-5

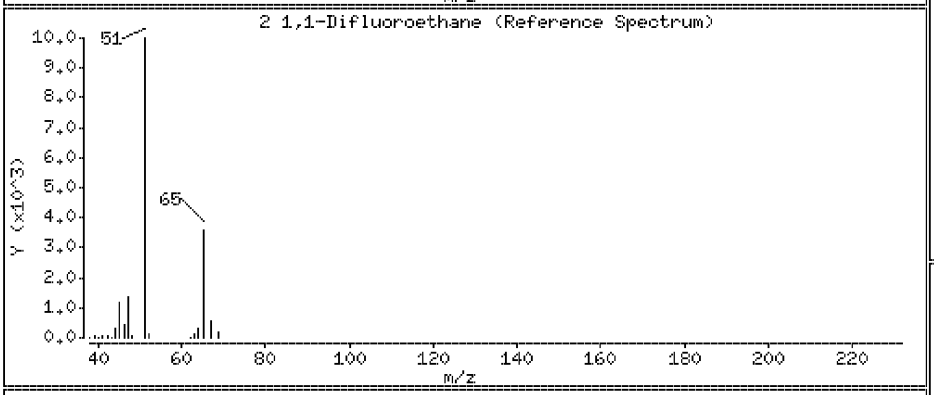
Column diameter: 0.32

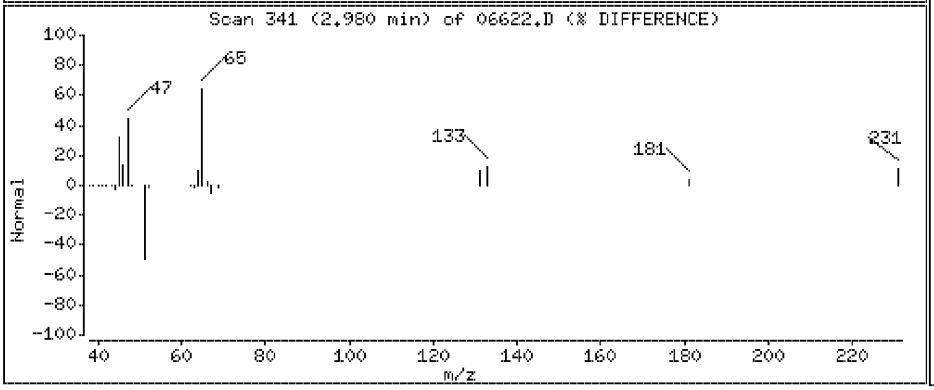
2 1,1-Difluoroethane

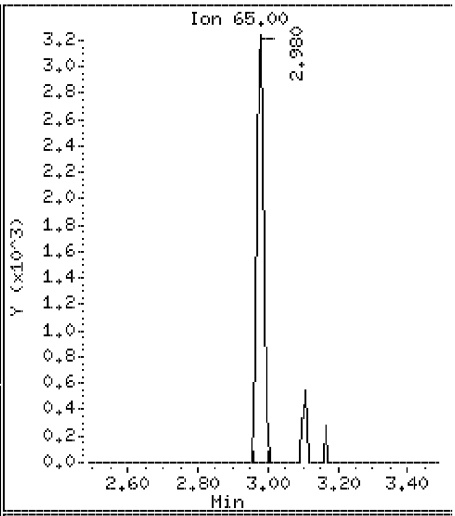
Concentration: 0.898 ppbv

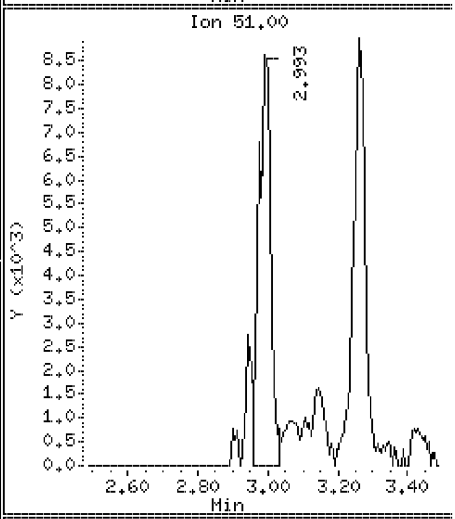


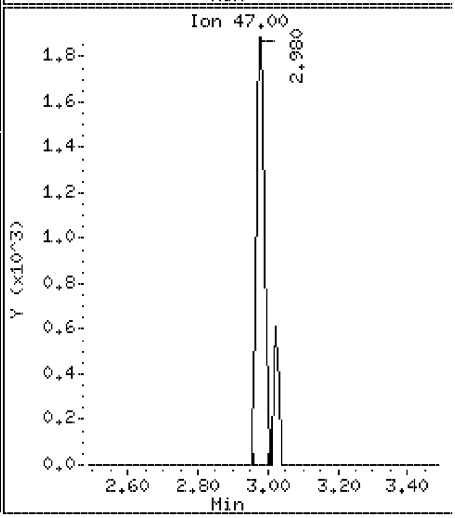












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

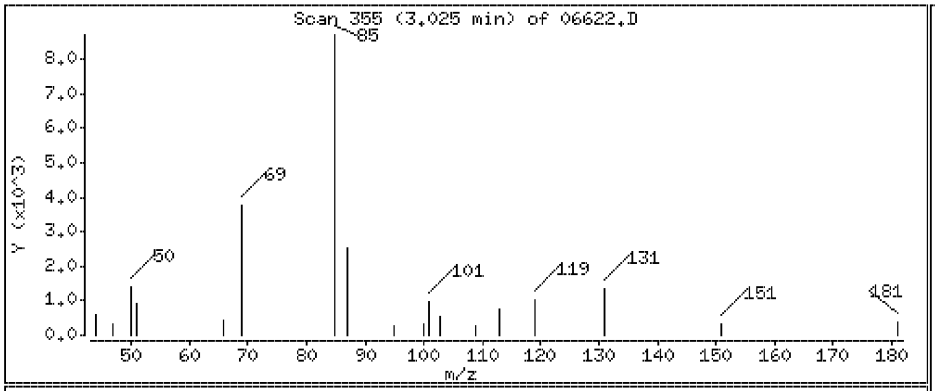
Operator: NCK

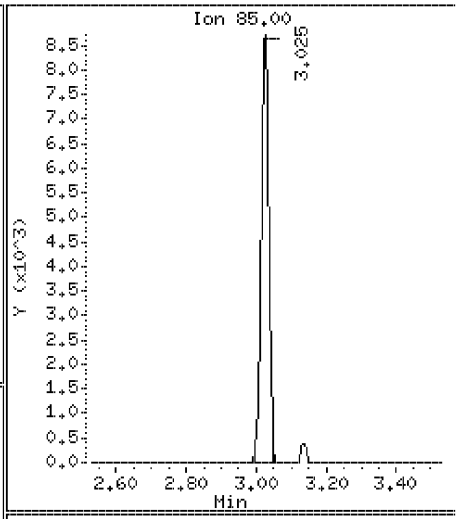
Column phase: J&W DB-5

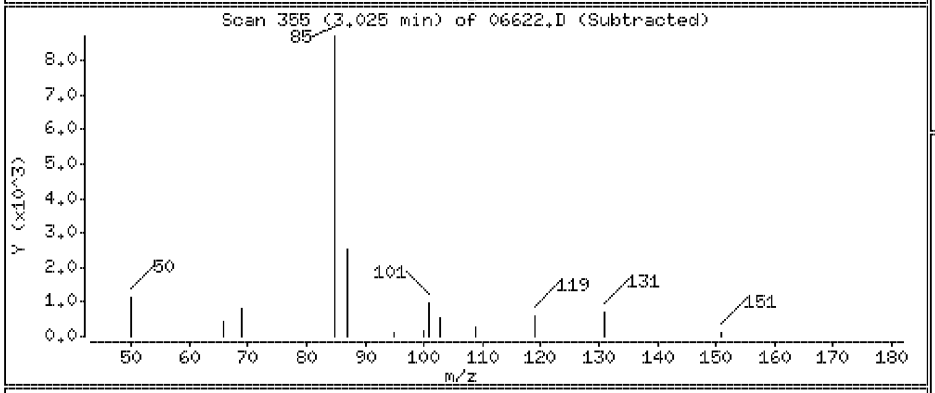
Column diameter: 0.32

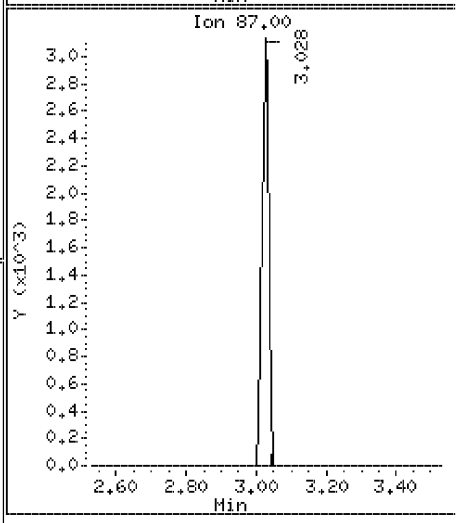
5 Dichlorodifluoromethane

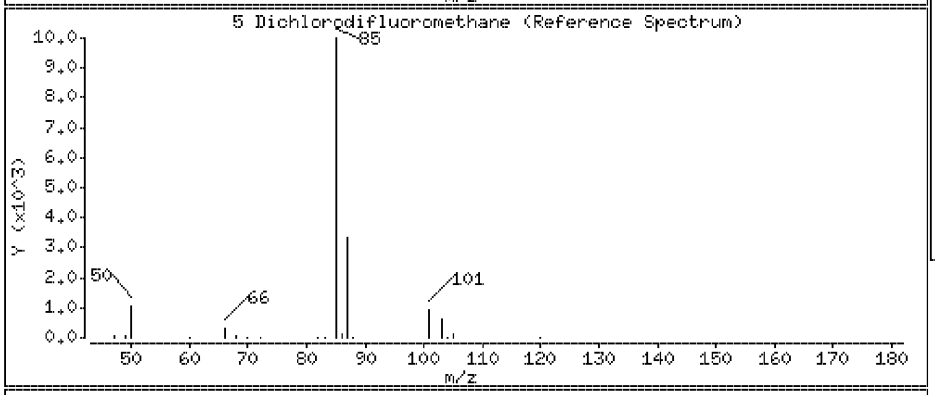
Concentration: 0.430 ppbv

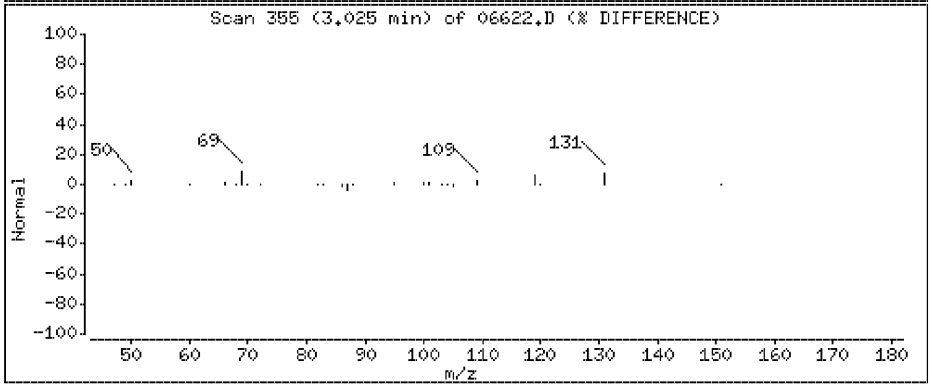












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

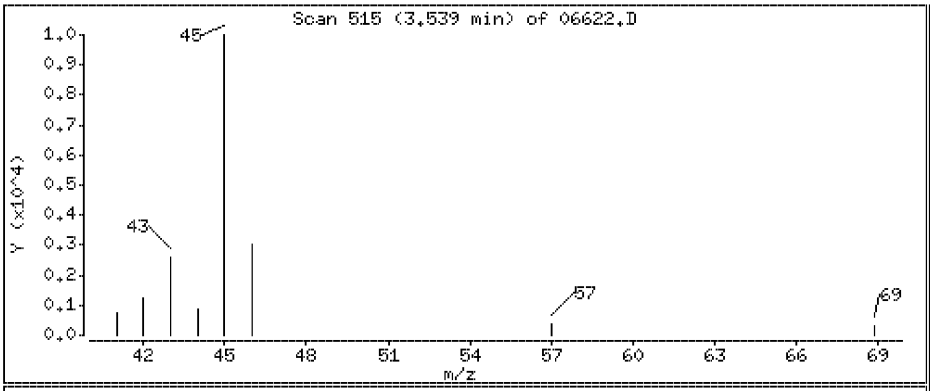
Operator: NCK

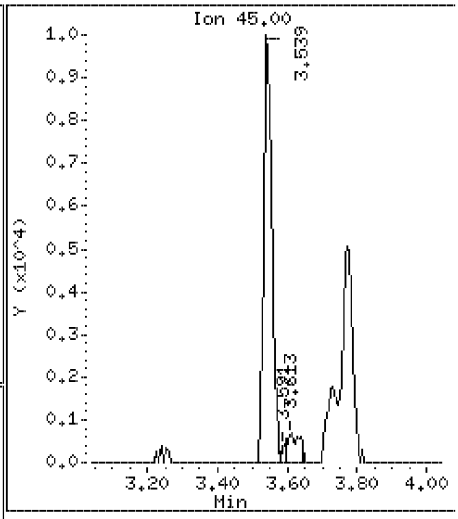
Column phase: J&W DB-5

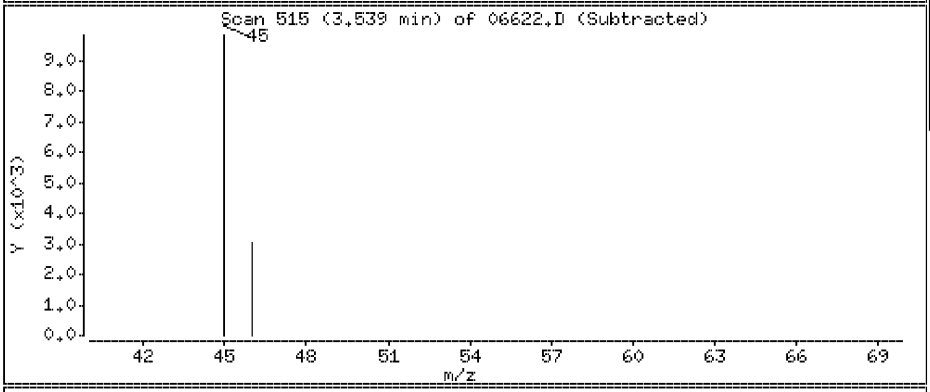
Column diameter: 0.32

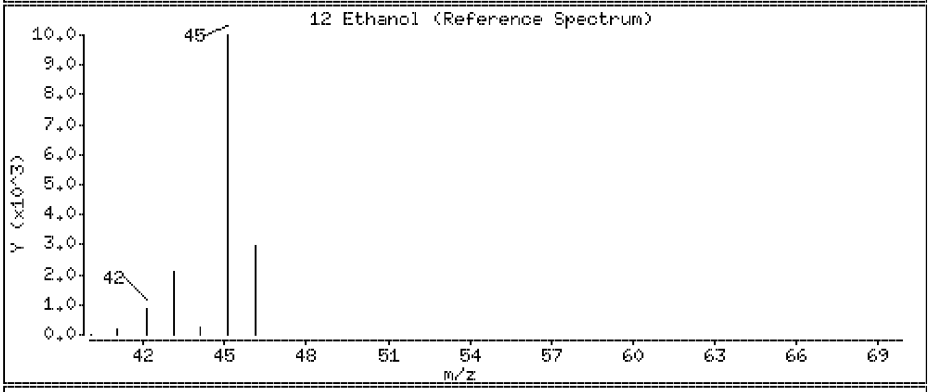
12 Ethanol

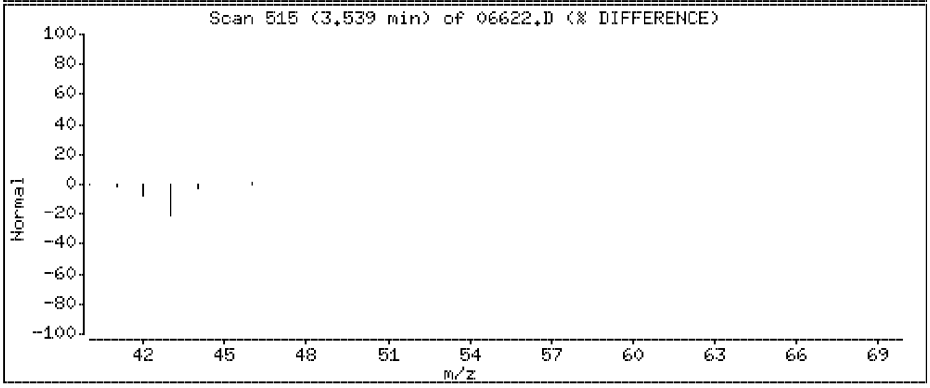
Concentration: 5.57 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

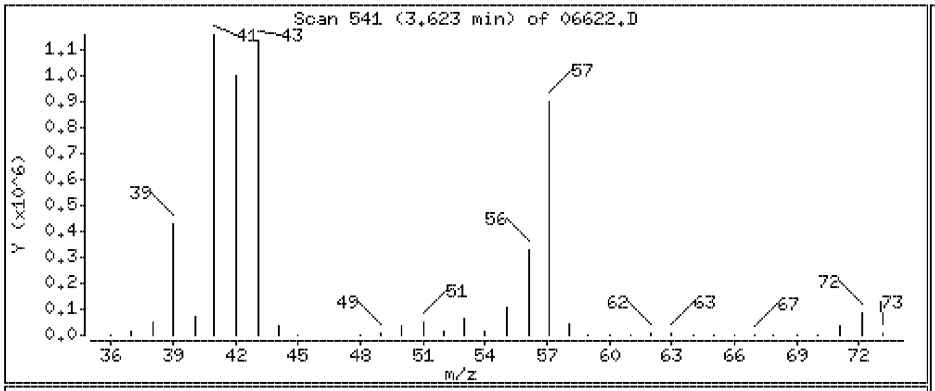
Operator: NCK

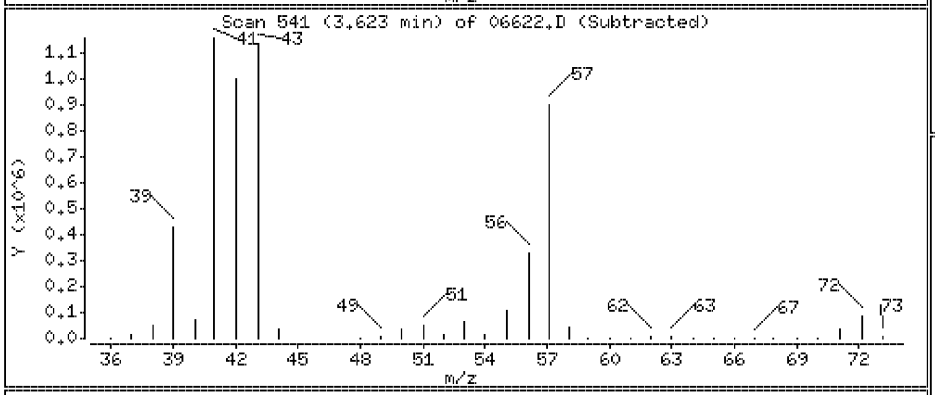
Column phase: J&W DB-5

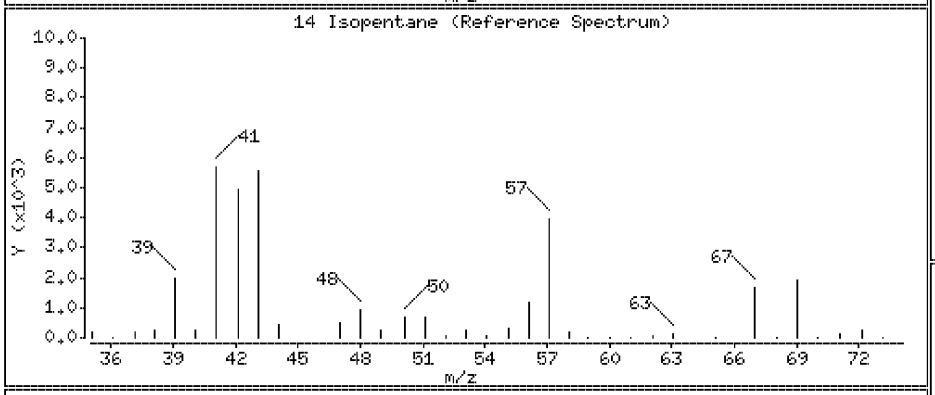
Column diameter: 0.32

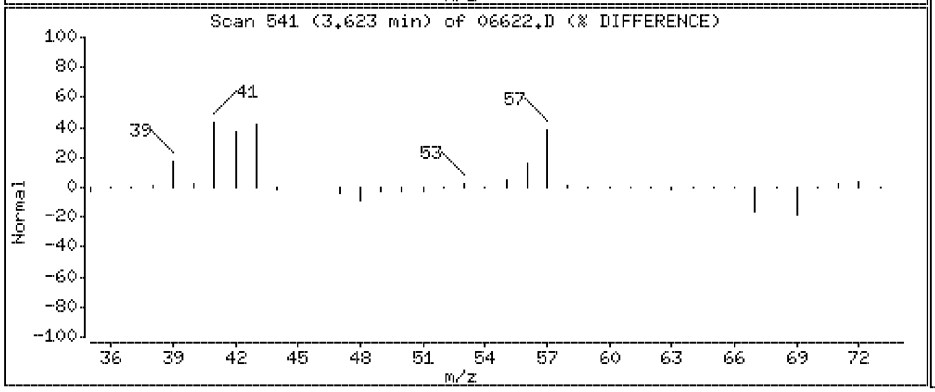
14 Isopentane

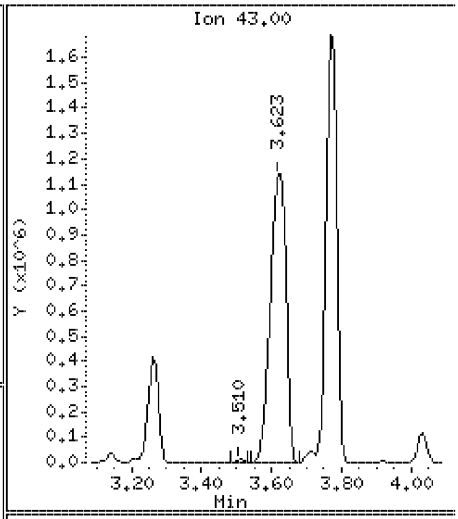
Concentration: 455 ppbv

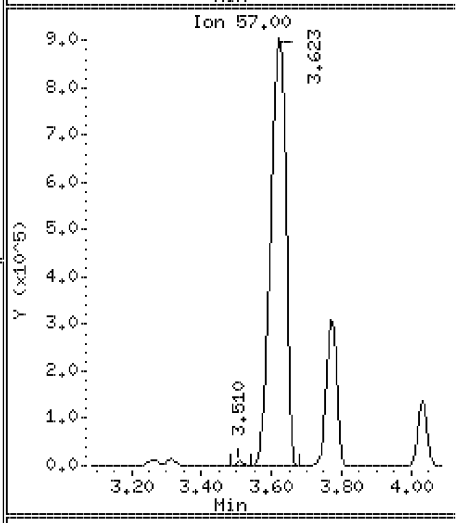


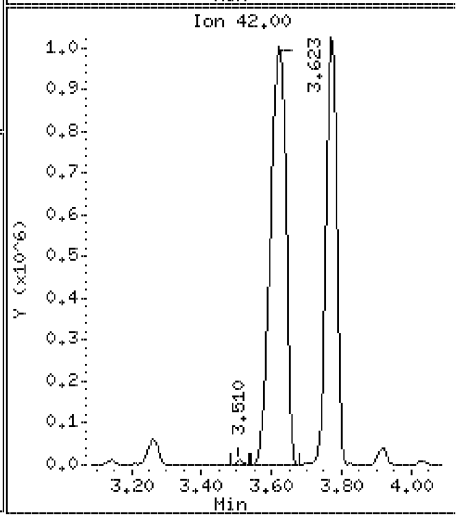












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

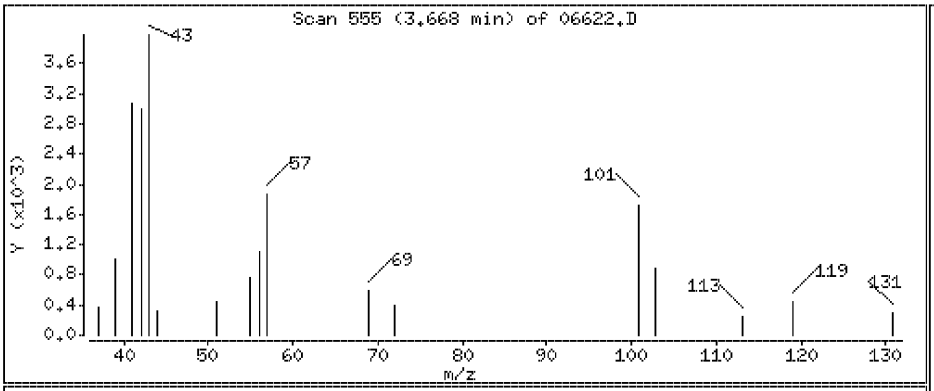
Operator: NCK

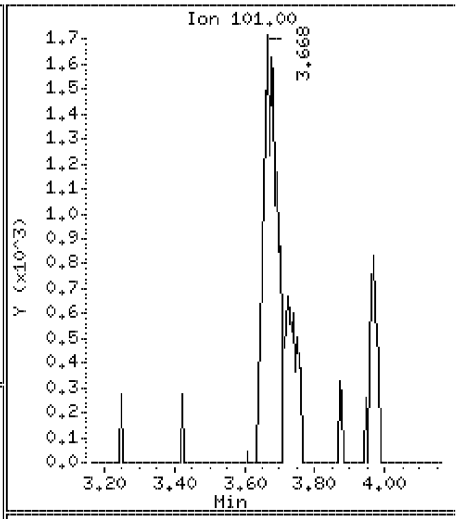
Column phase: J&W DB-5

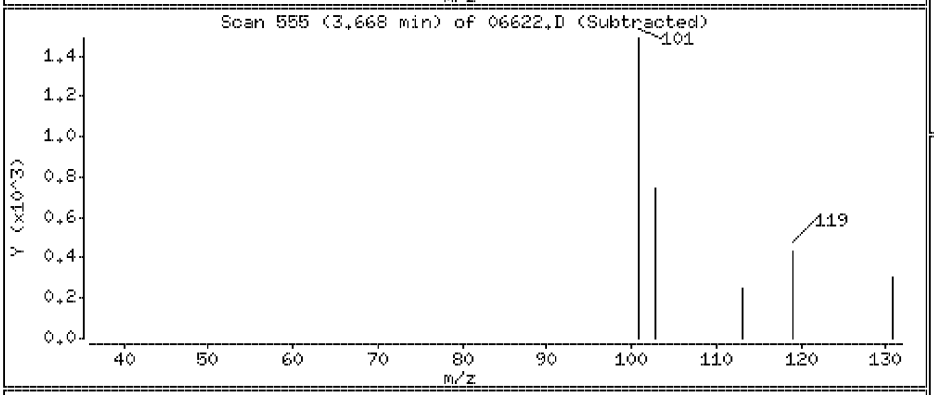
Column diameter: 0.32

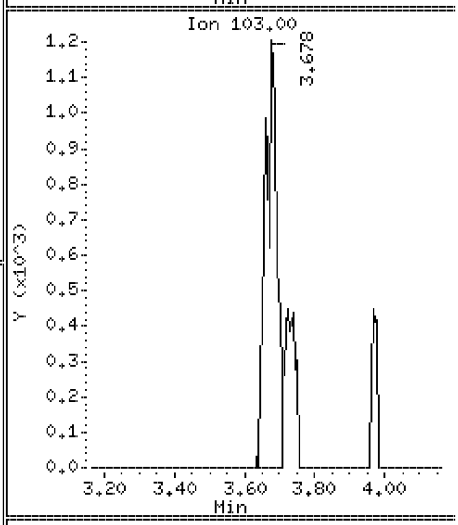
16 Trichlorofluoromethane

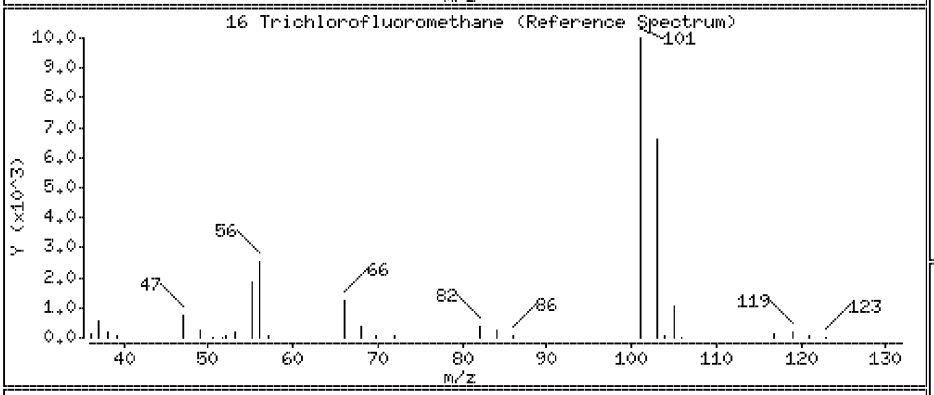
Concentration: 0.210 ppbv

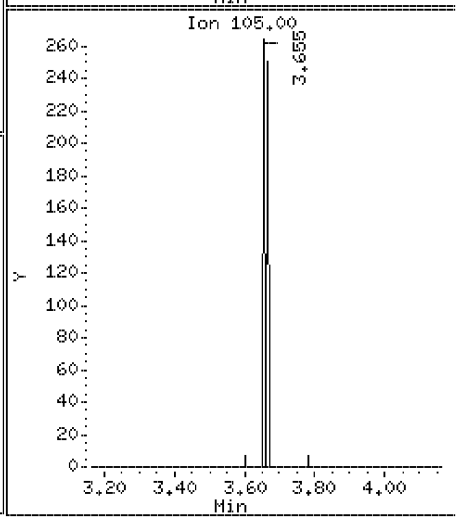


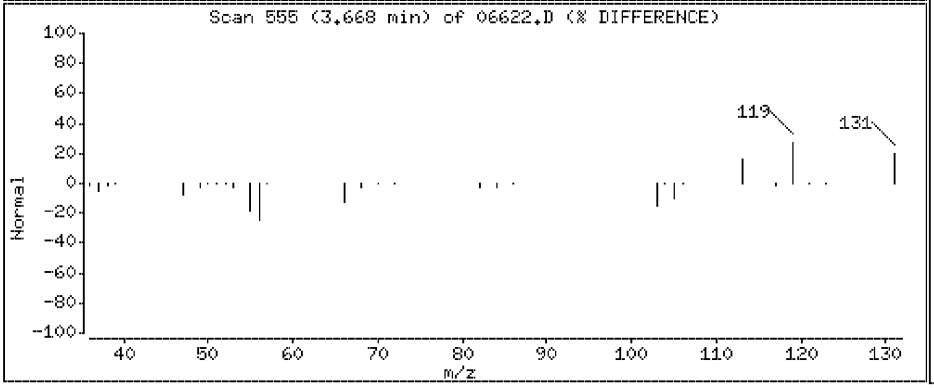












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

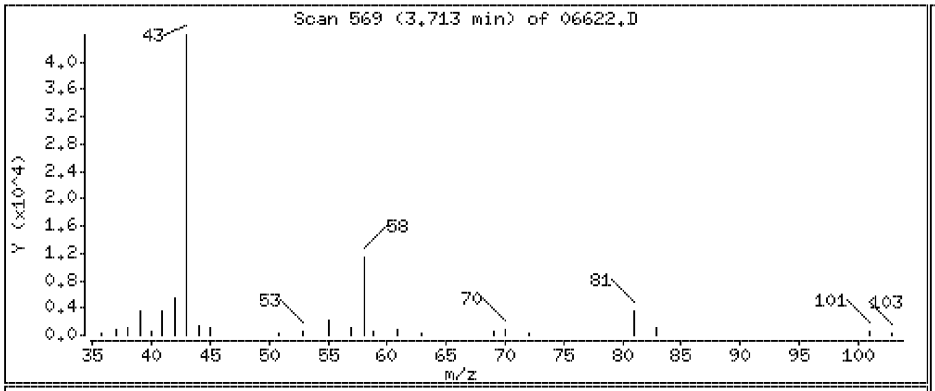
Operator: NCK

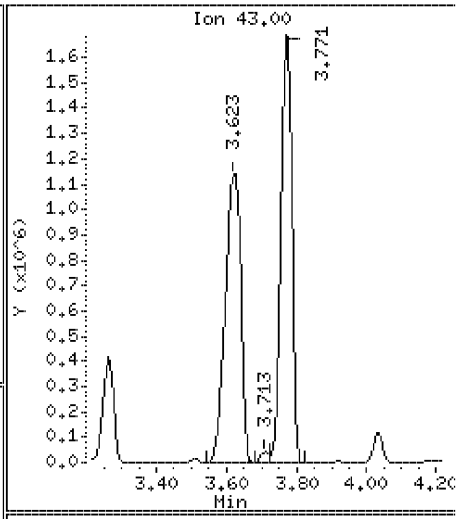
Column phase: J&W DB-5

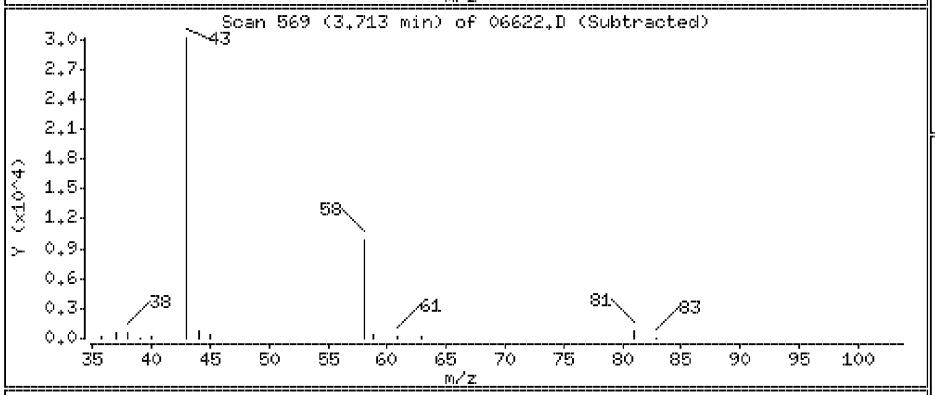
Column diameter: 0.32

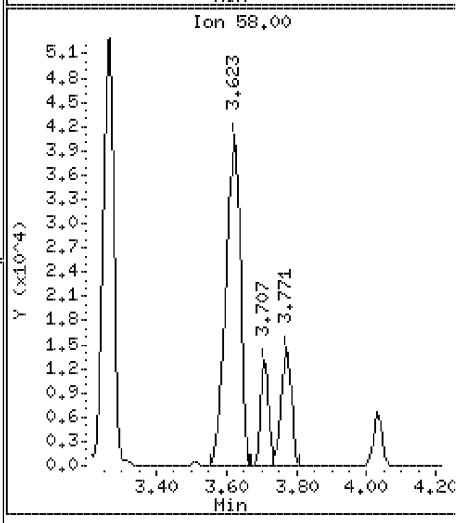
18 Acetone

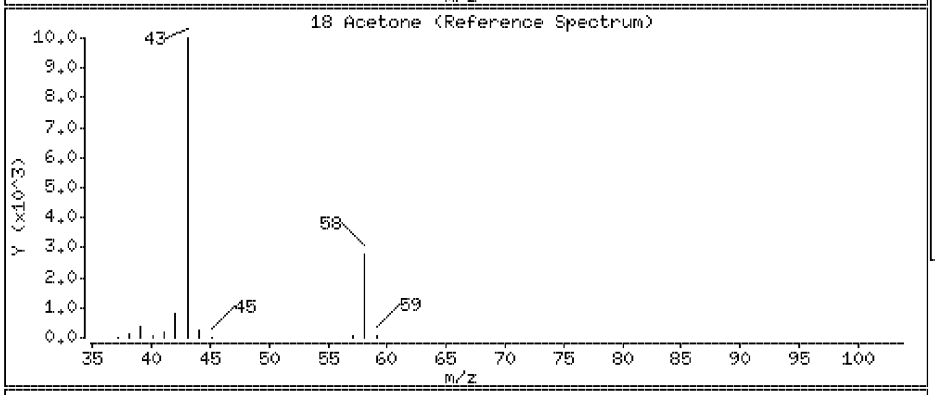
Concentration: 5.36 ppbv

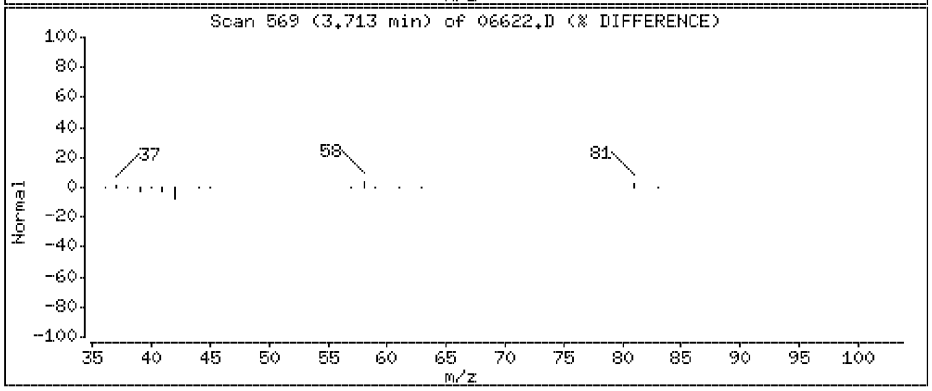












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

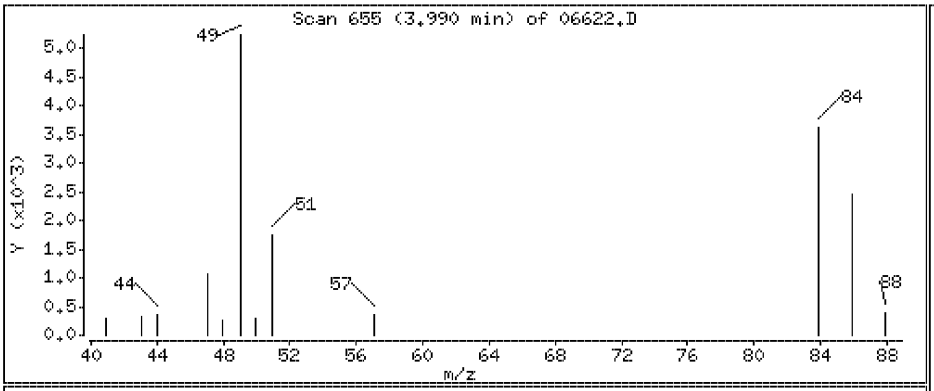
Operator: NCK

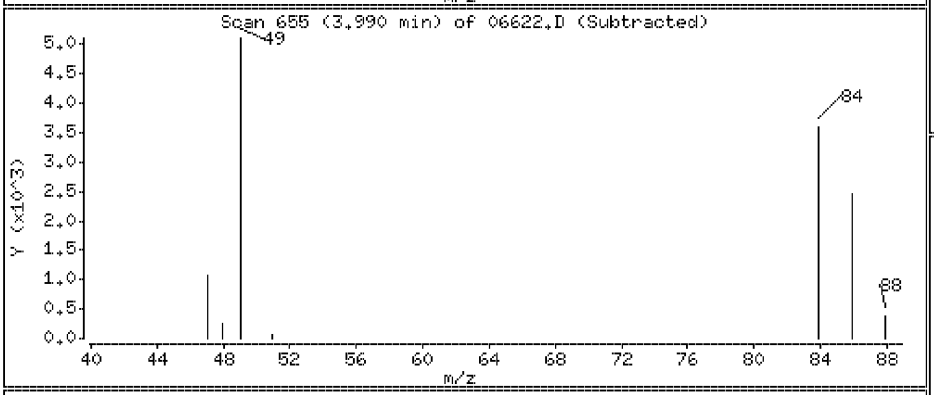
Column phase: J&W DB-5

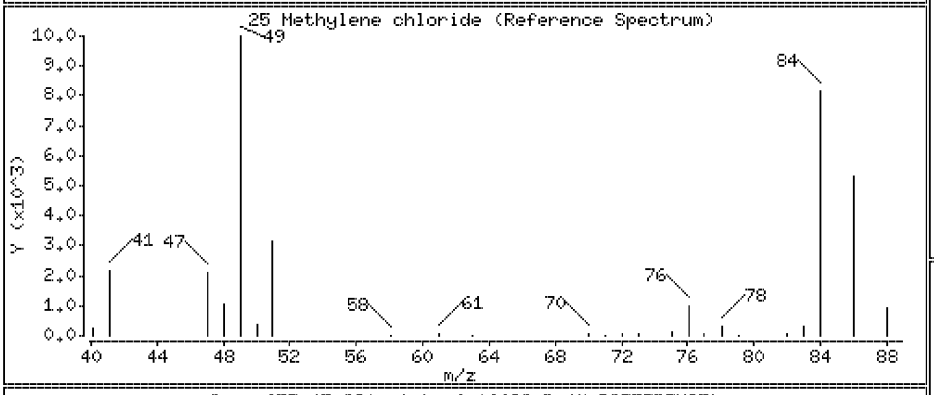
Column diameter: 0.32

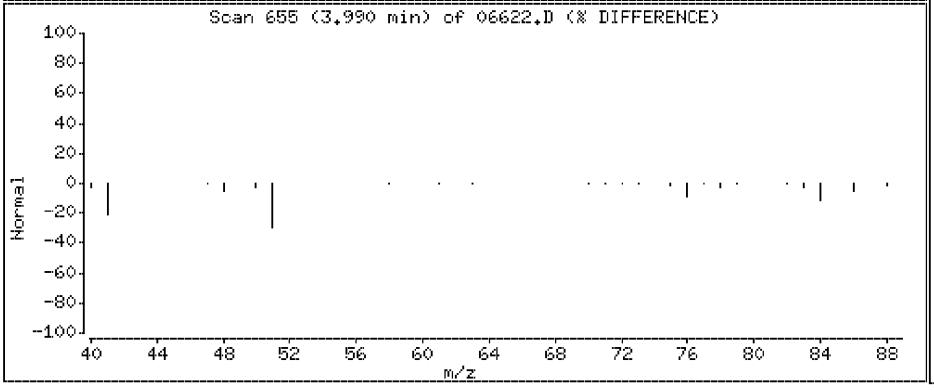
25 Methylene chloride

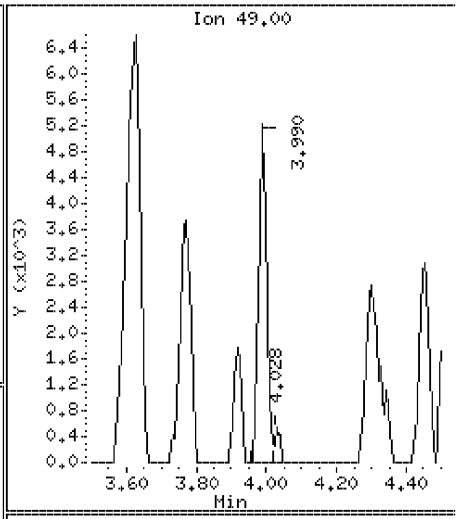
Concentration: 0.941 ppbv

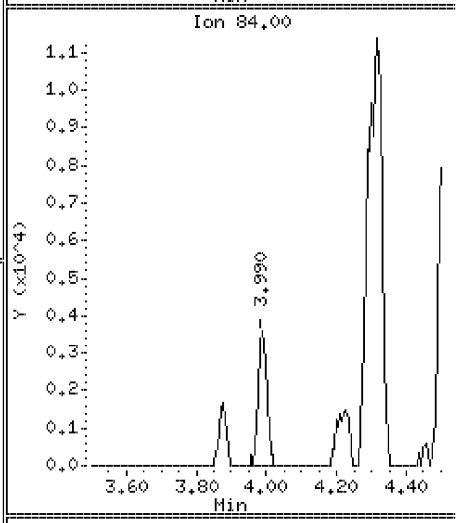


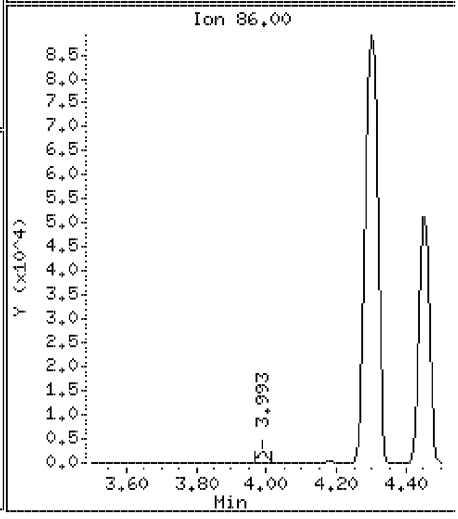












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

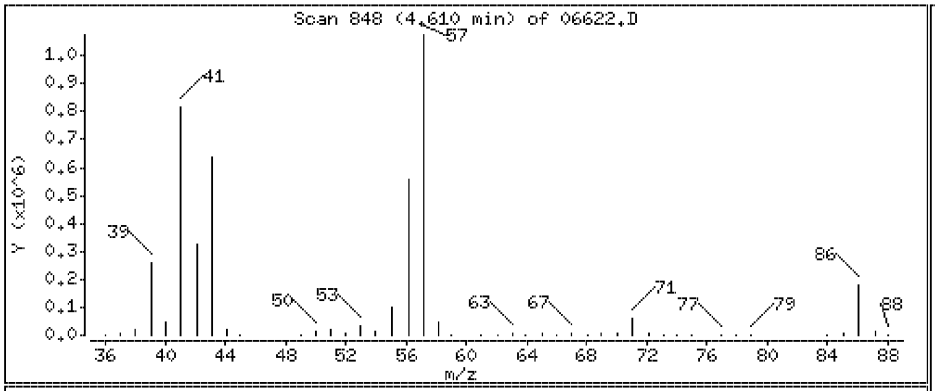
Operator: NCK

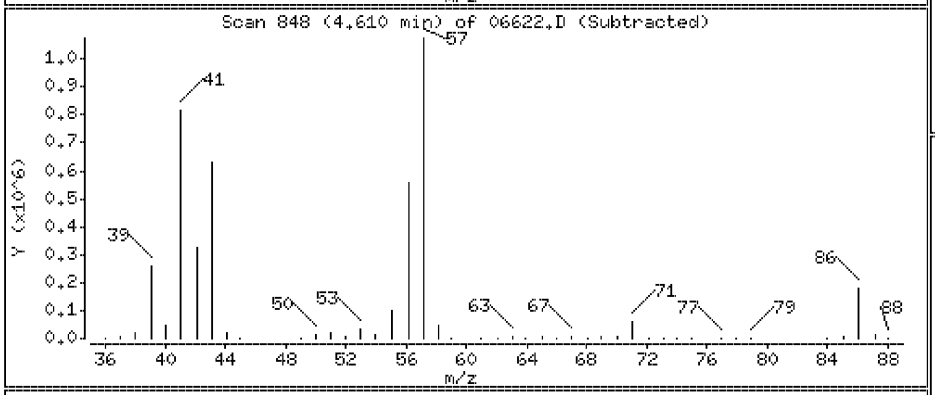
Column phase: J&W DB-5

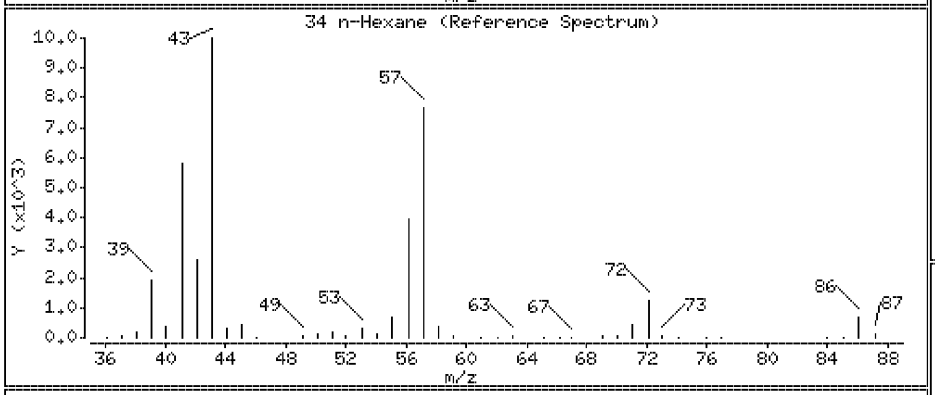
Column diameter: 0.32

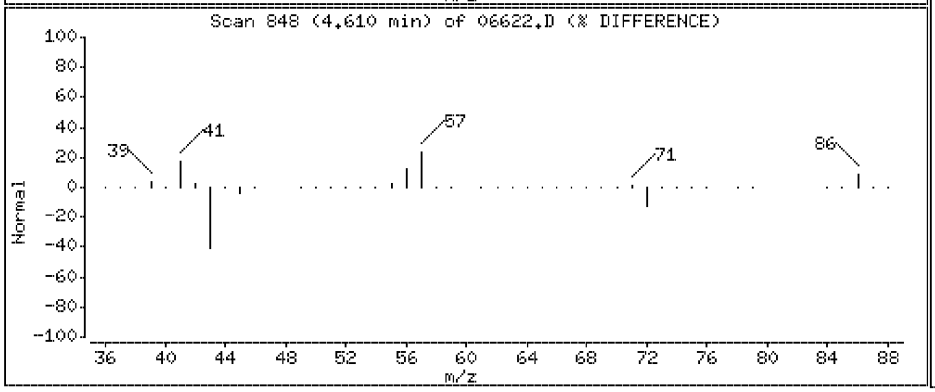
34 n-Hexane

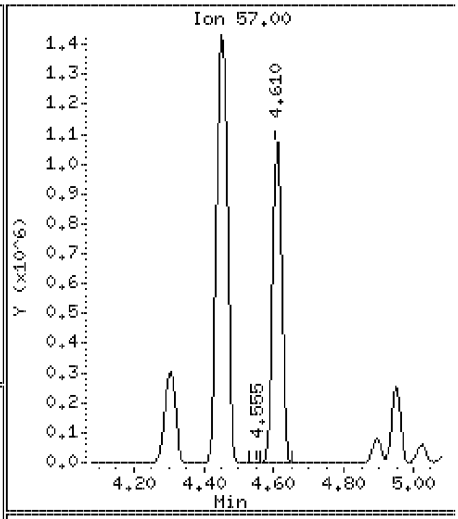
Concentration: 155 ppbv

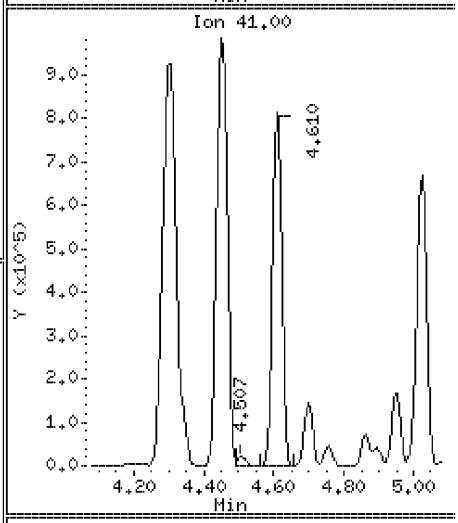


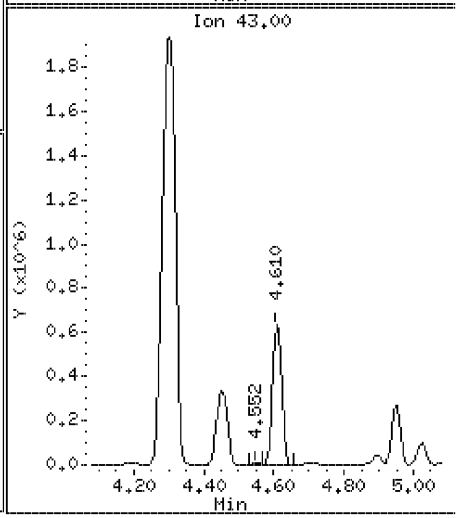












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

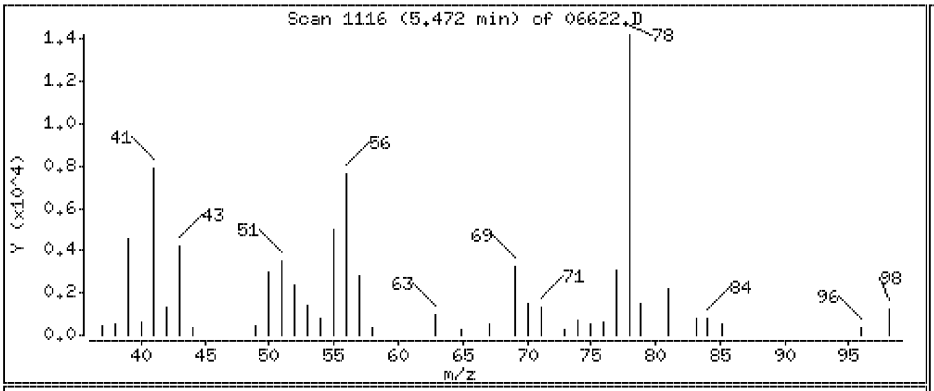
Operator: NCK

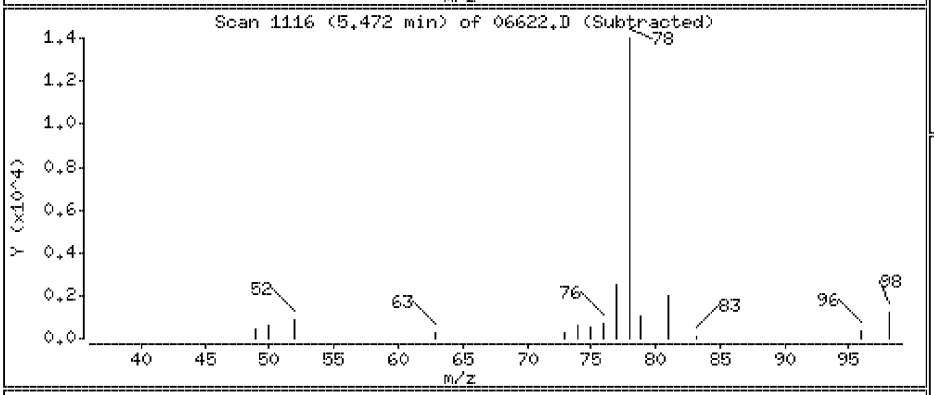
Column phase: J&W DB-5

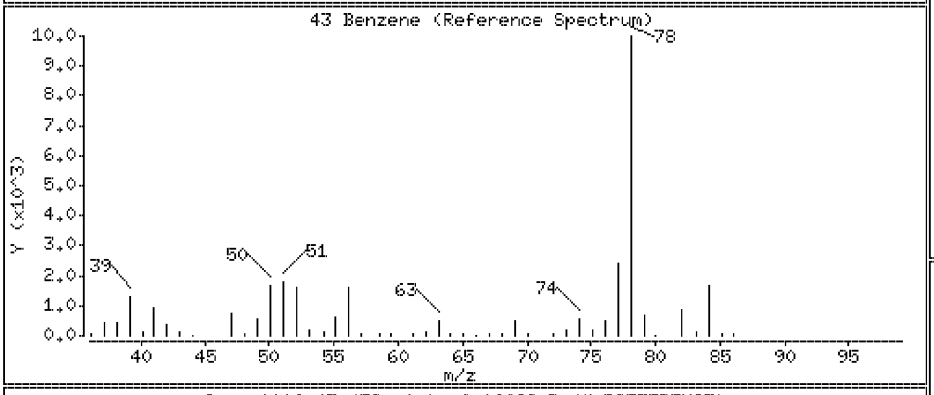
Column diameter: 0.32

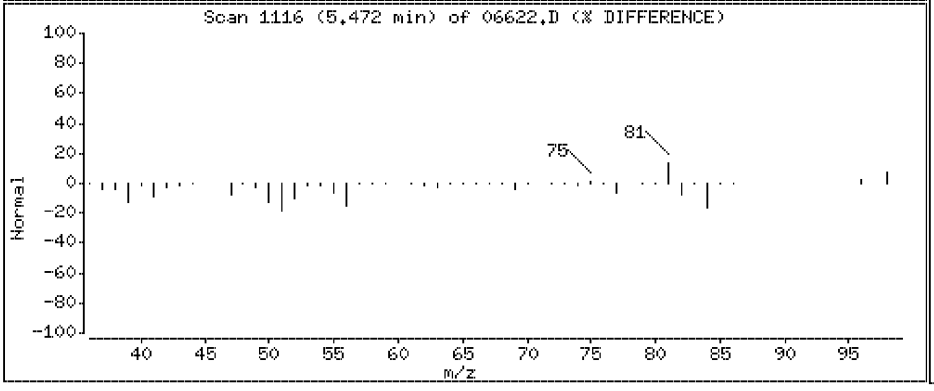
43 Benzene

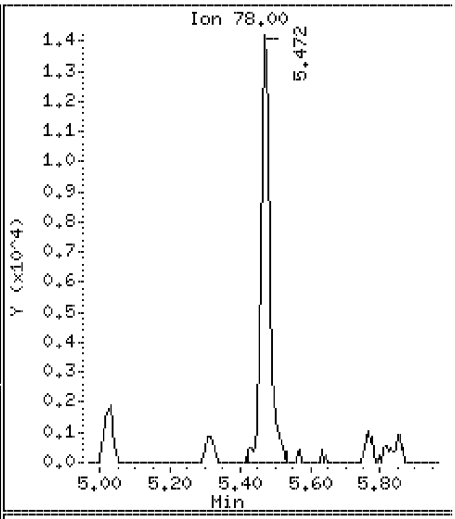
Concentration: 0.971 ppbv

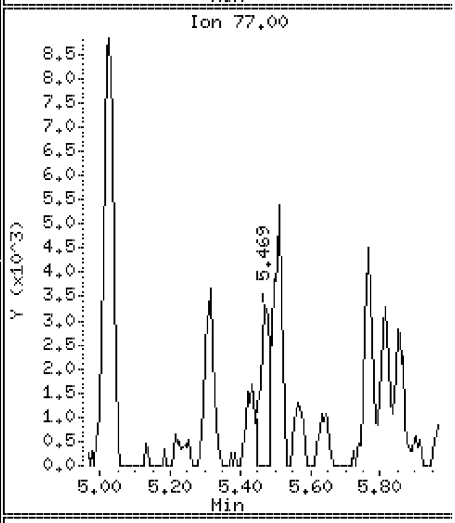


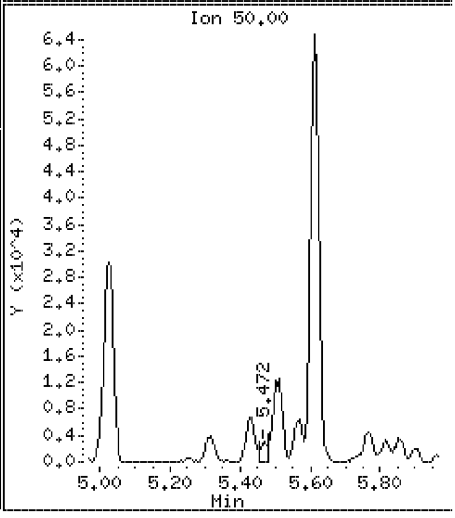












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

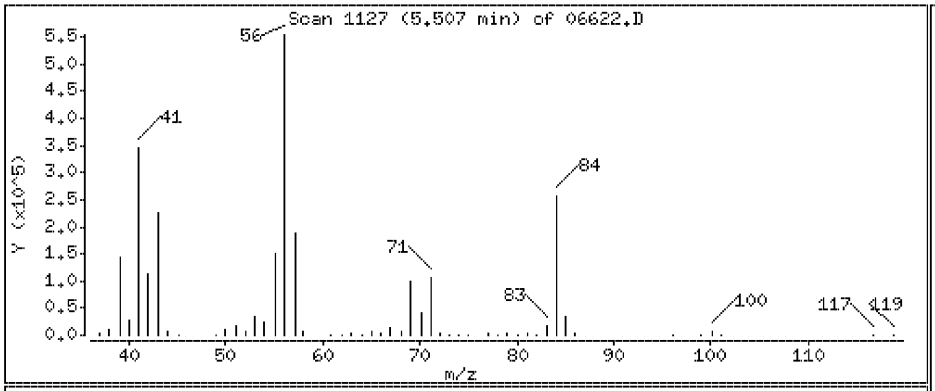
Operator: NCK

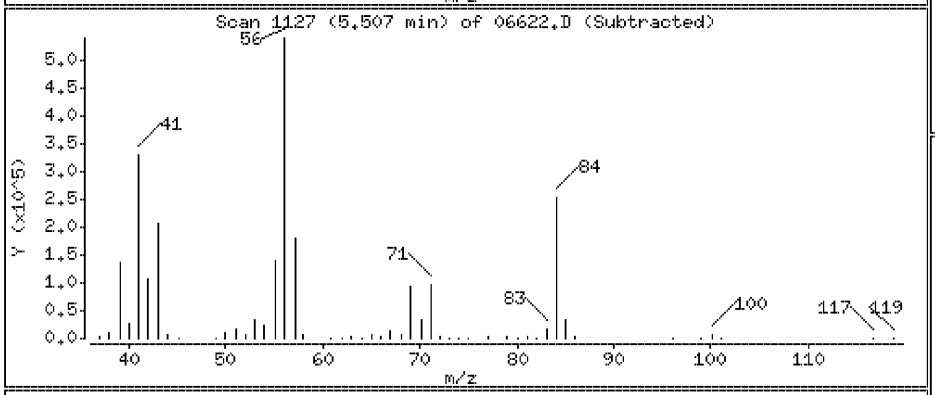
Column phase: J&W DB-5

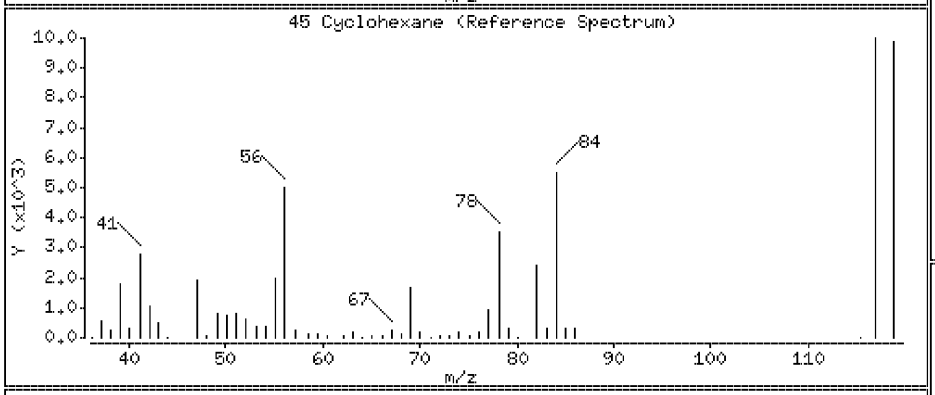
Column diameter: 0.32

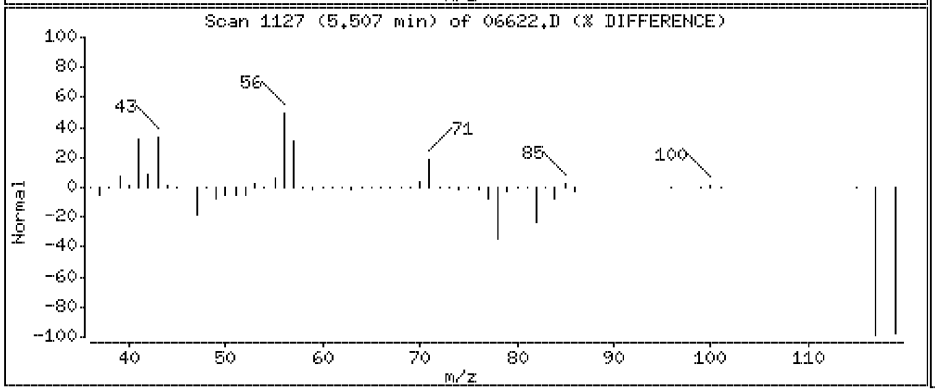
45 Cyclohexane

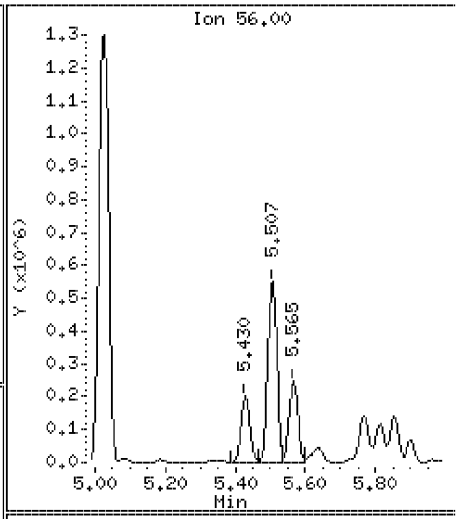
Concentration: 78.7 ppbv

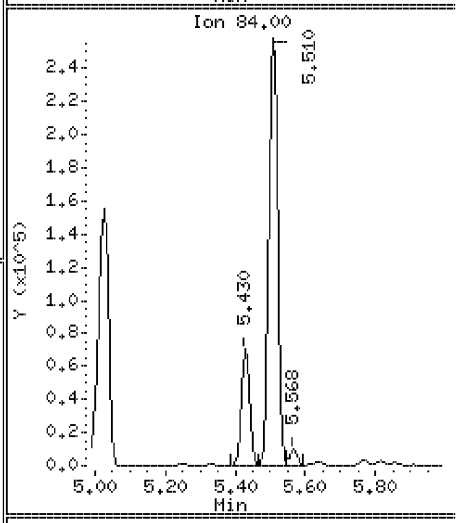


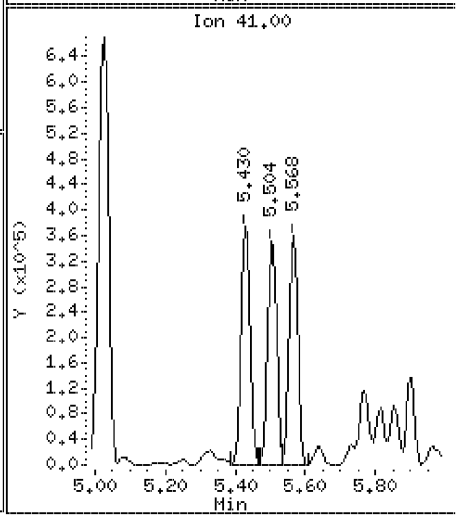












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

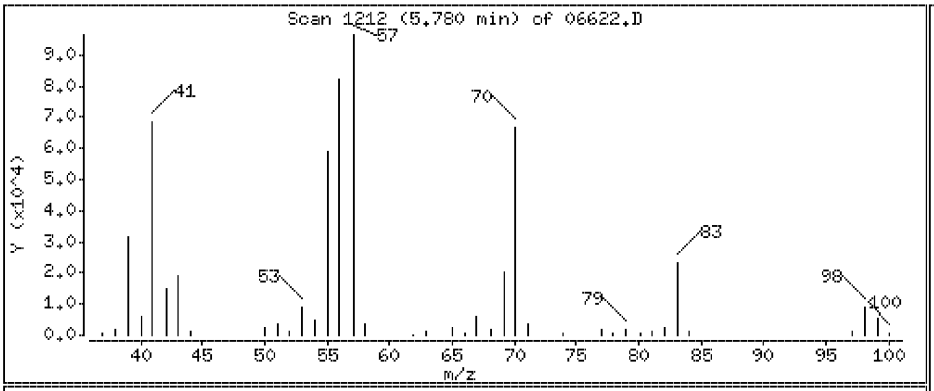
Operator: NCK

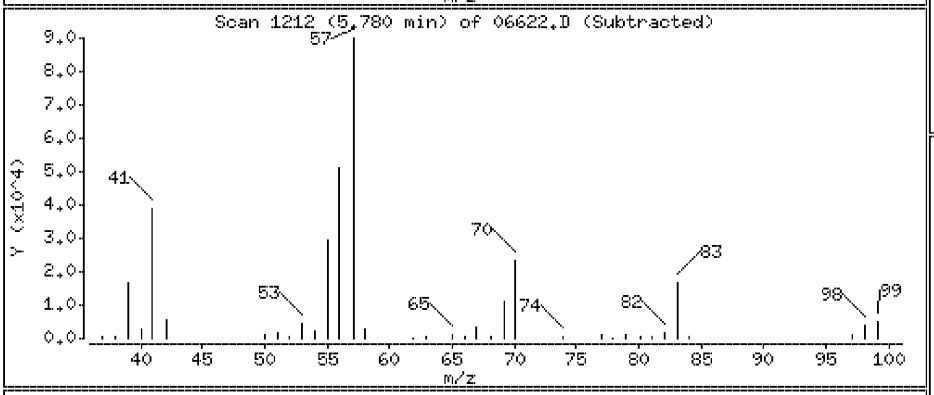
Column phase: J&W DB-5

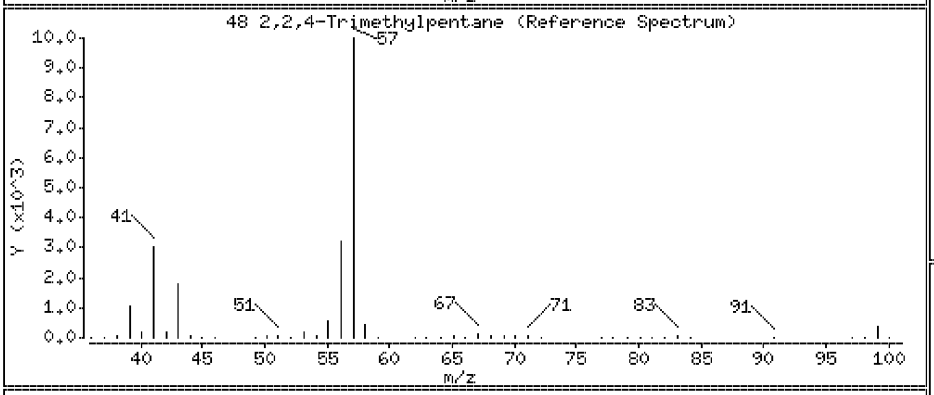
Column diameter: 0.32

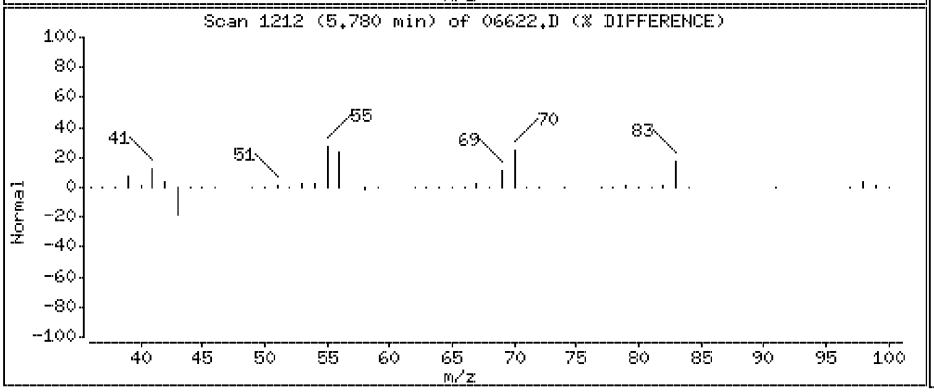
48 2,2,4-Trimethylpentane

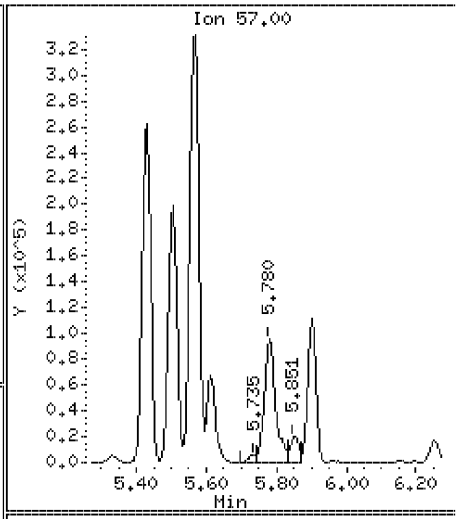
Concentration: 5.48 ppbv

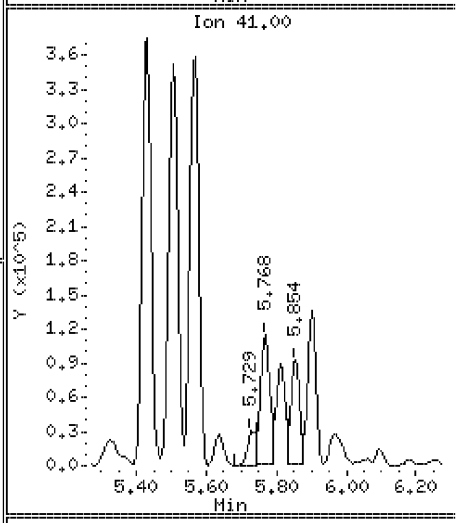


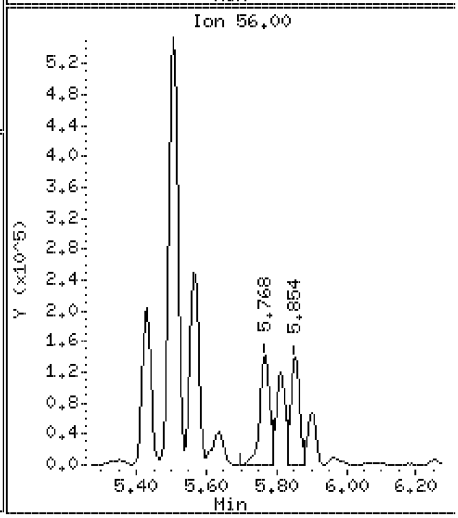












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

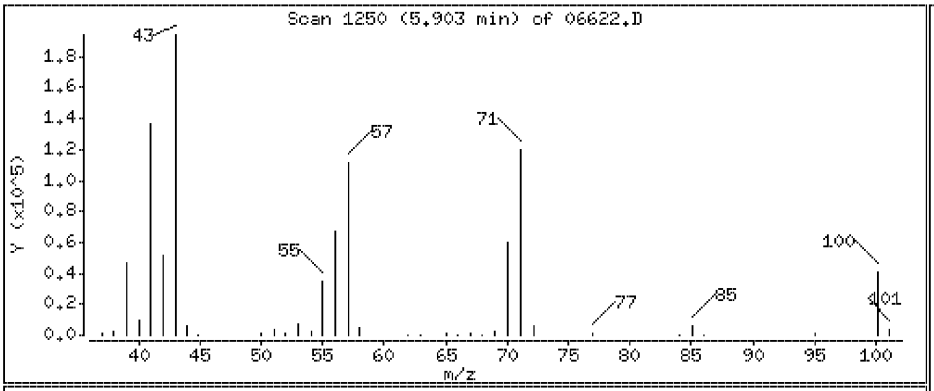
Operator: NCK

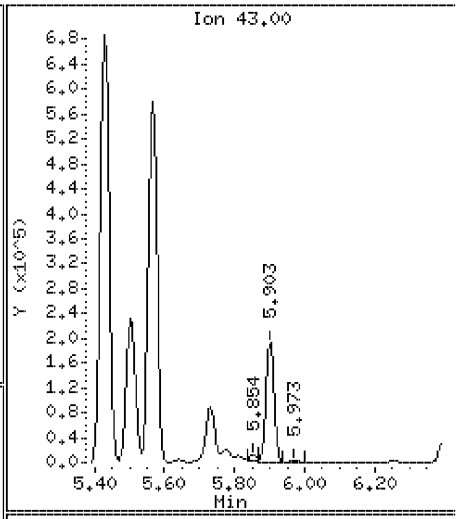
Column phase: J&W DB-5

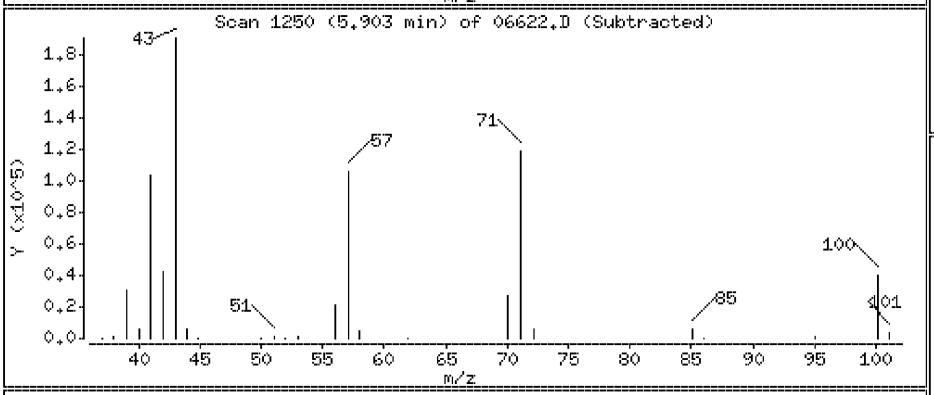
Column diameter: 0.32

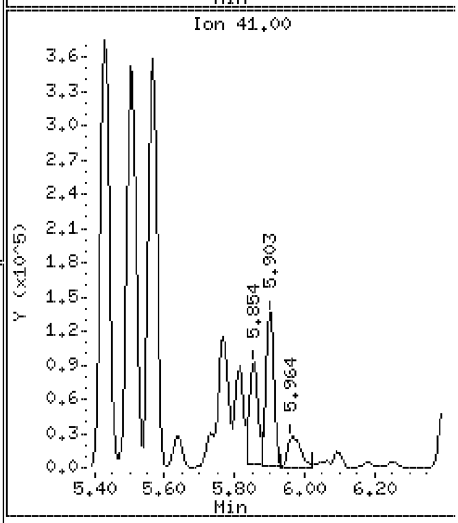
49 Heptane

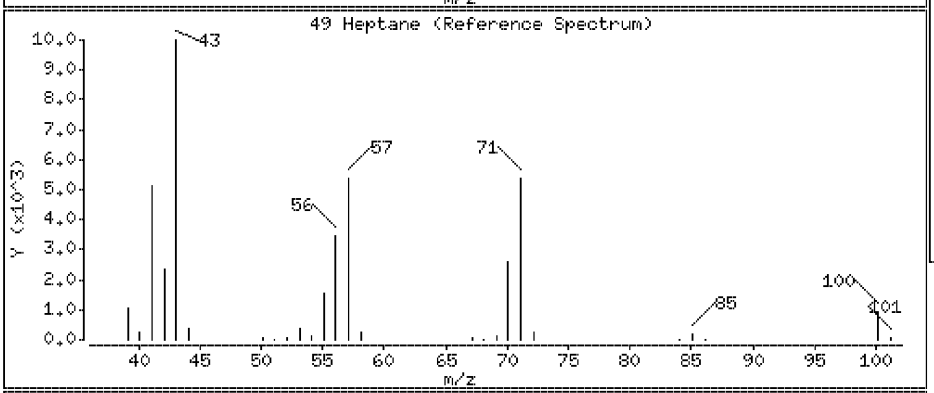
Concentration: 21.8 ppbv

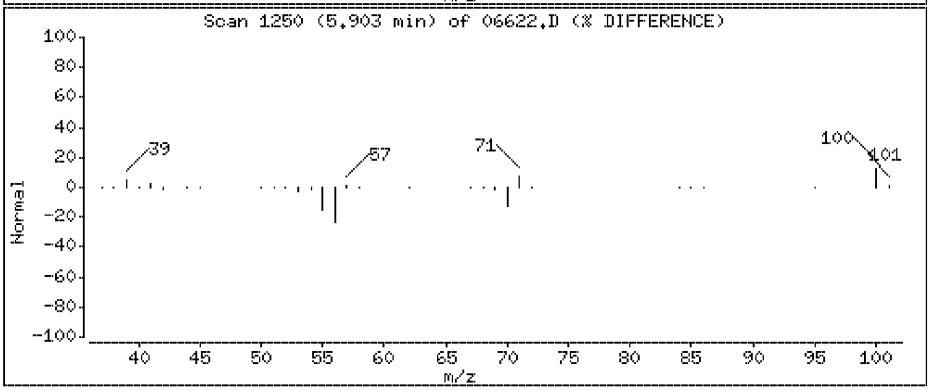












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

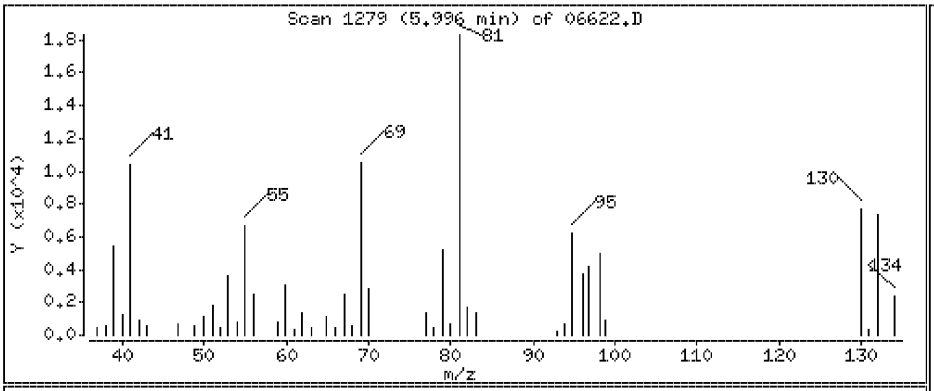
Operator: NCK

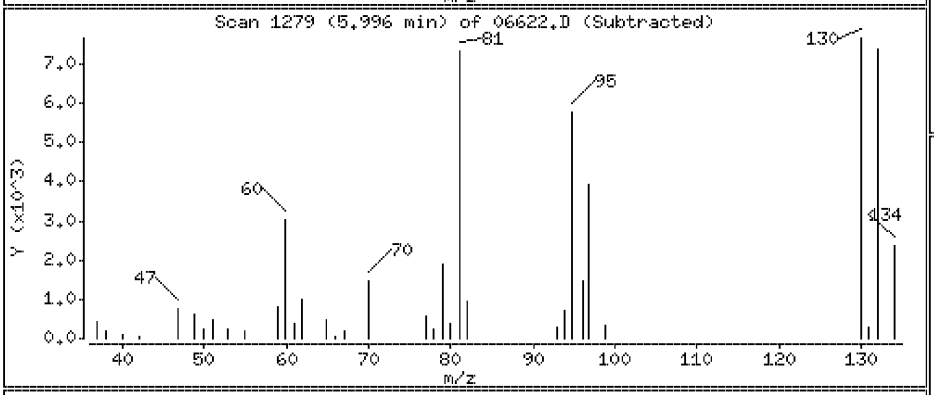
Column phase: J&W DB-5

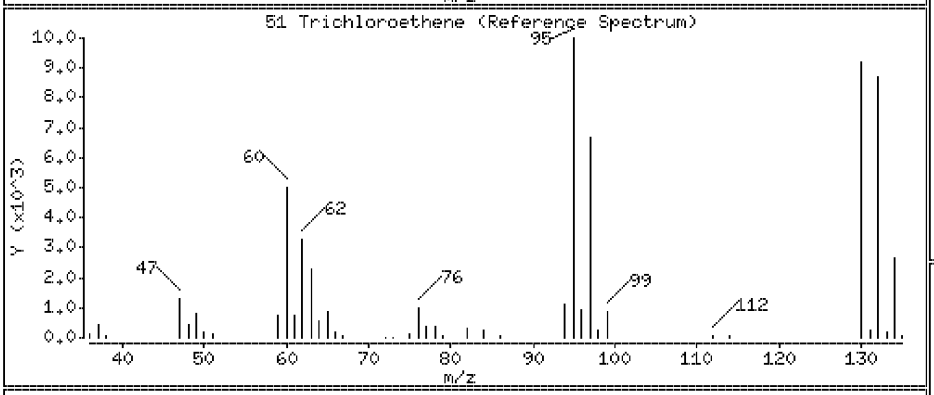
Column diameter: 0.32

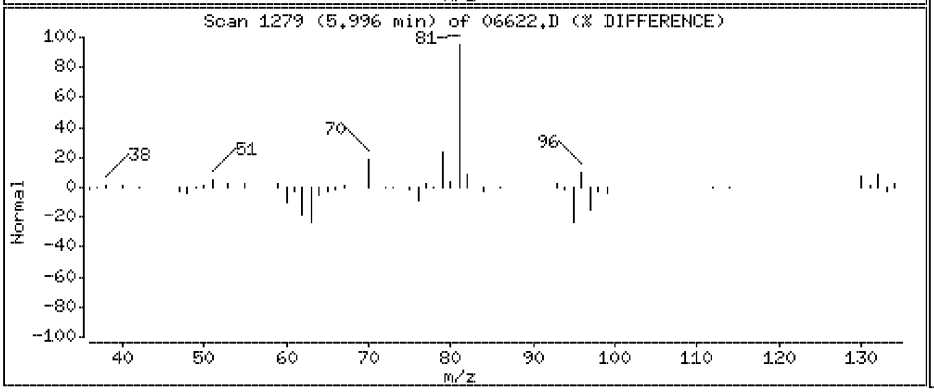
51 Trichloroethene

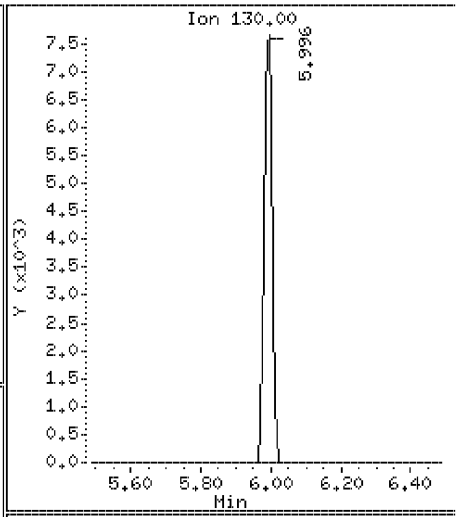
Concentration: 0.883 ppbv

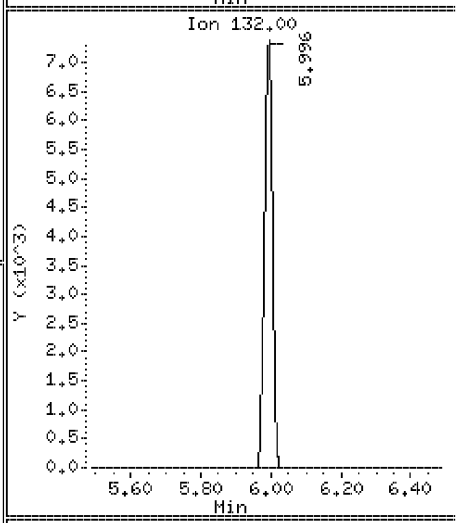


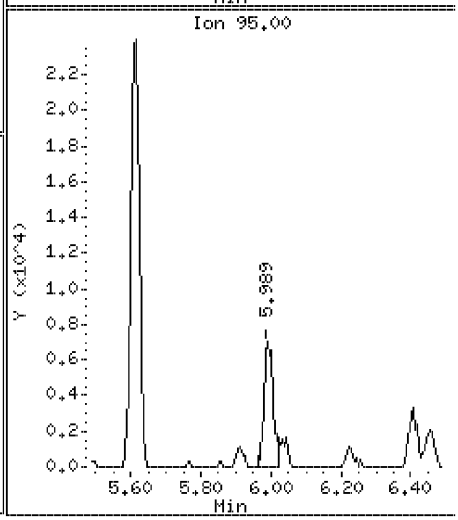












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

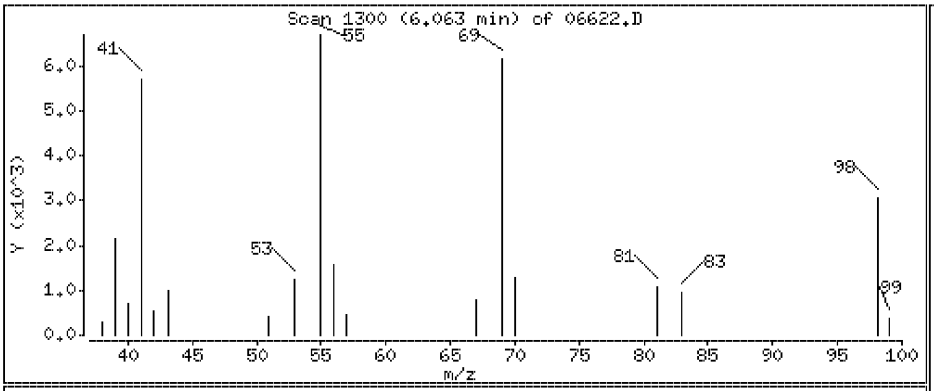
Operator: NCK

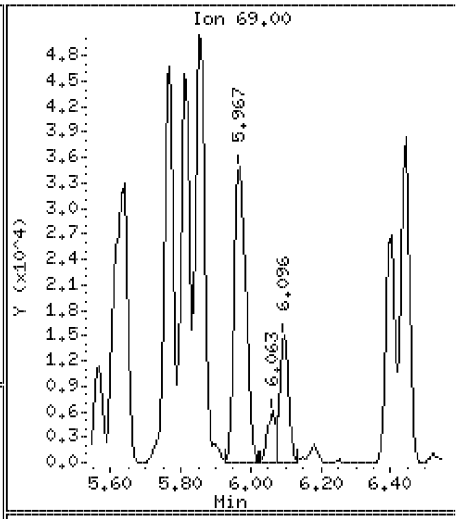
Column phase: J&W DB-5

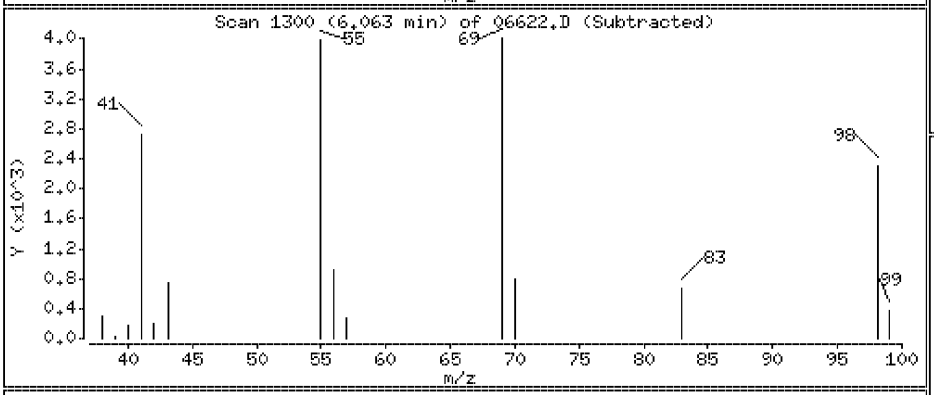
Column diameter: 0.32

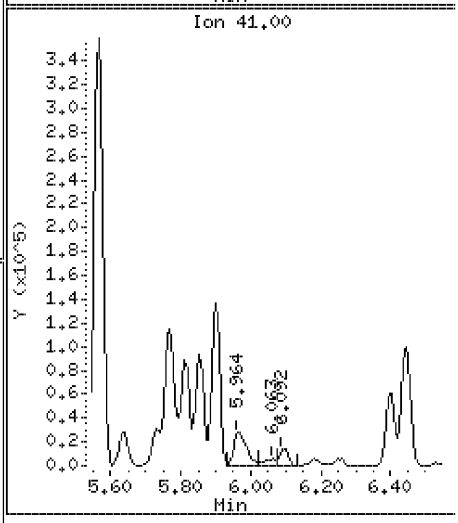
52 Methyl methacrylate

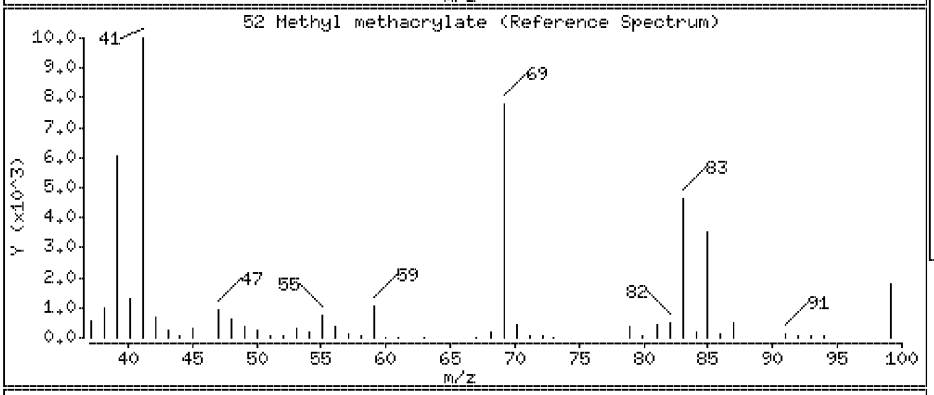
Concentration: 1.09 ppbv

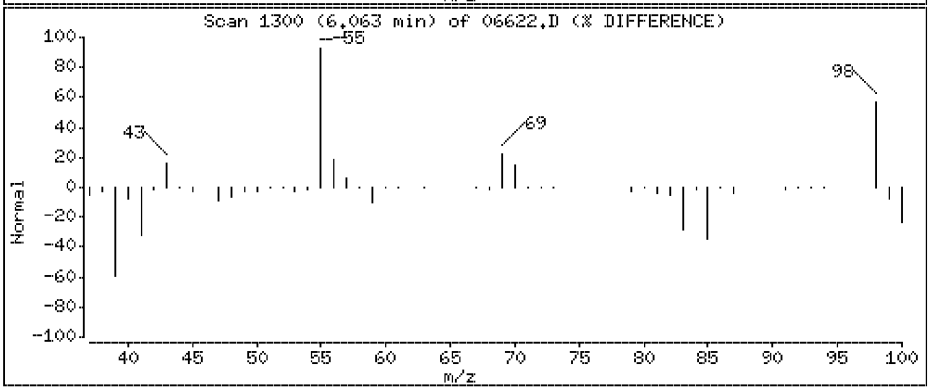












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

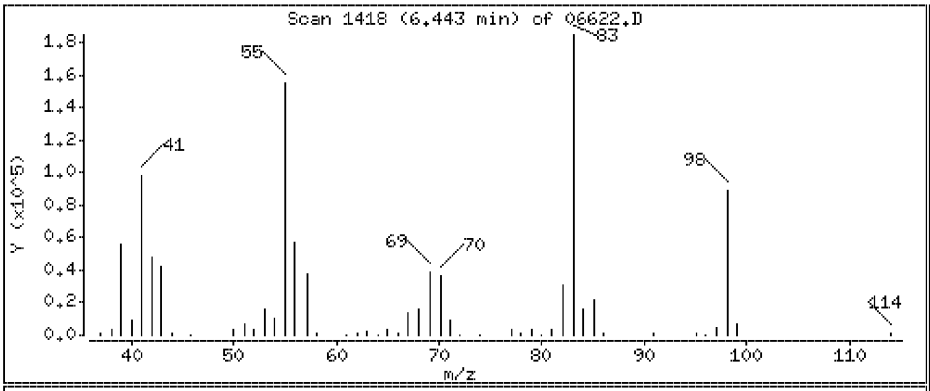
Operator: NCK

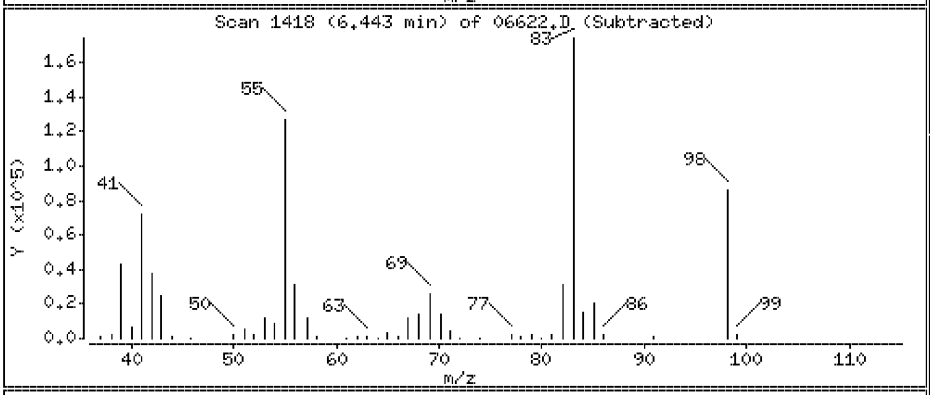
Column phase: J&W DB-5

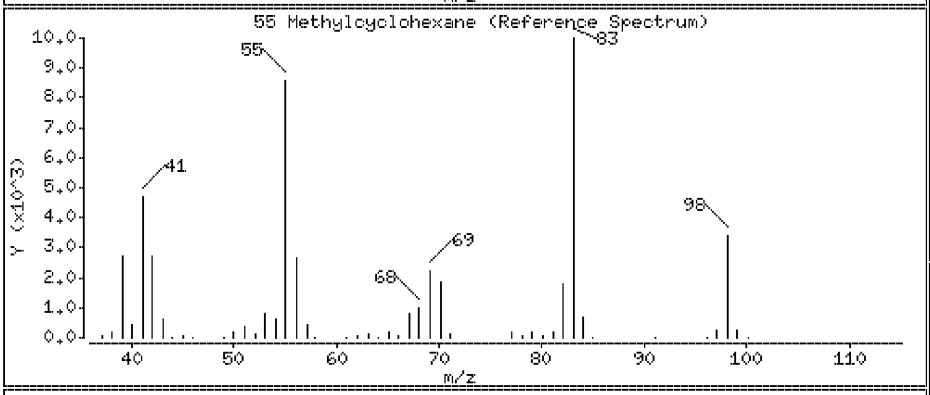
Column diameter: 0.32

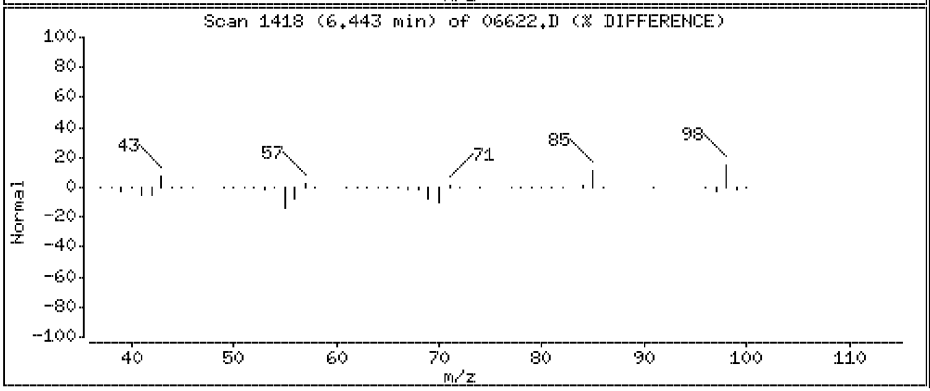
55 Methylcyclohexane

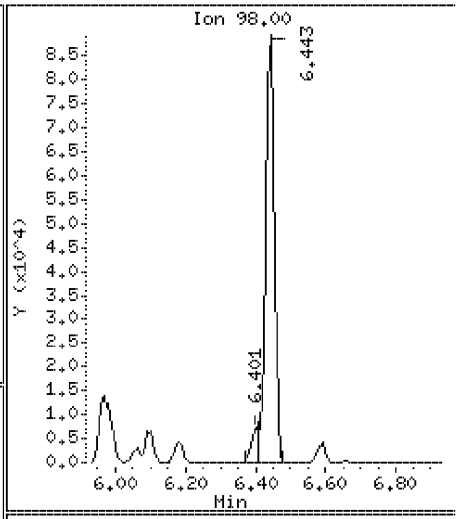
Concentration: 20.9 ppbv

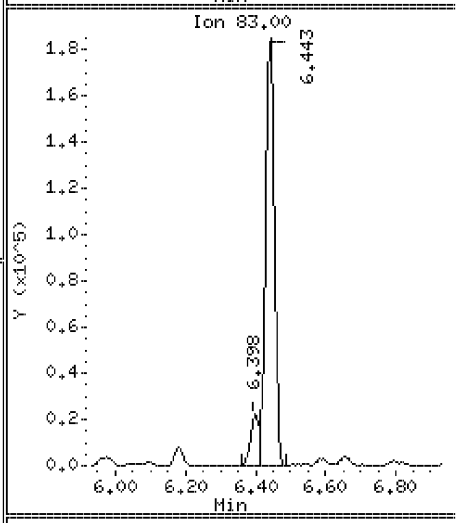


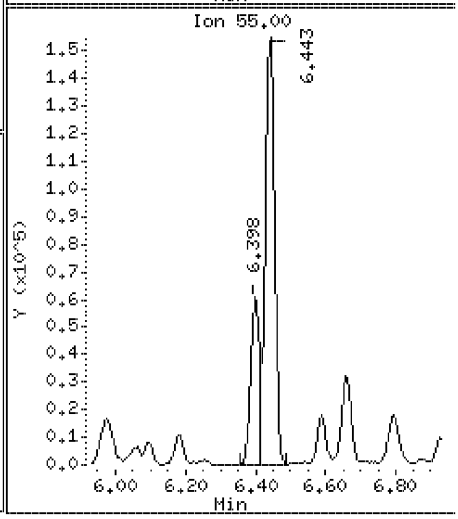












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

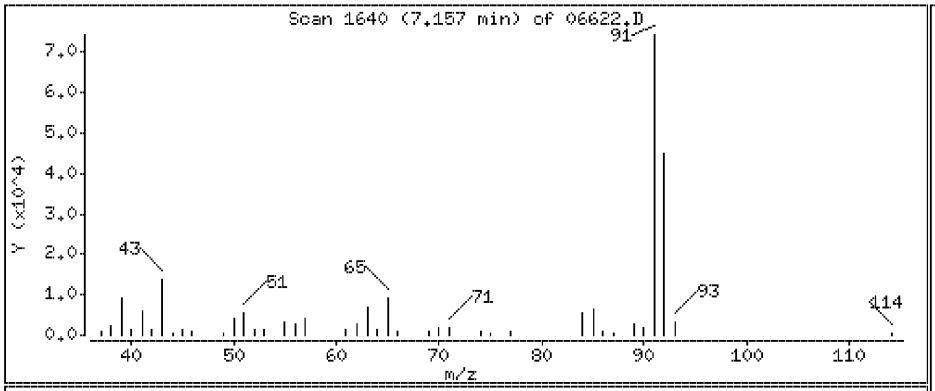
Operator: NCK

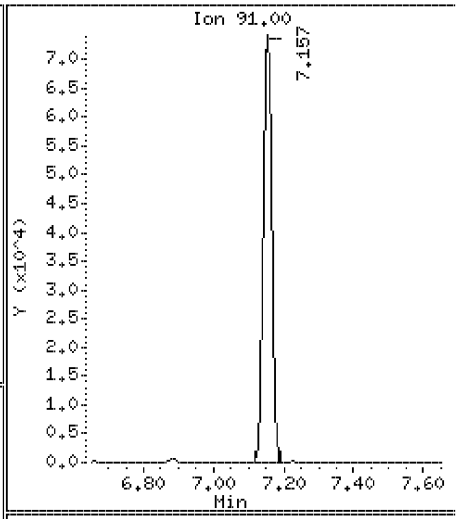
Column phase: J&W DB-5

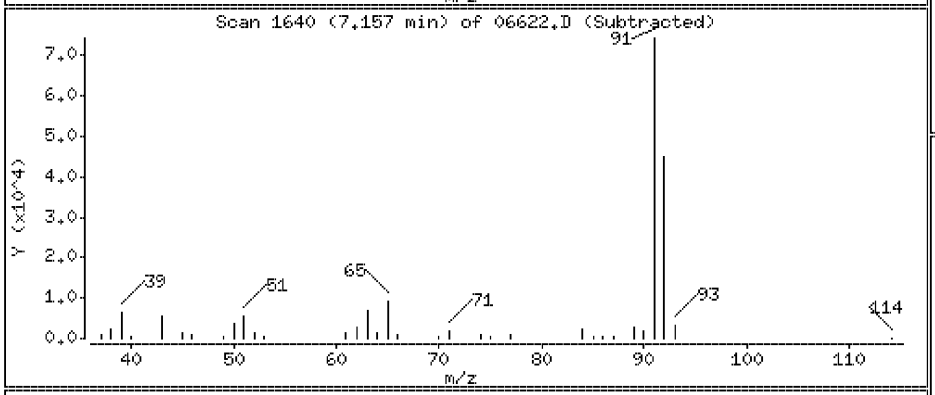
Column diameter: 0.32

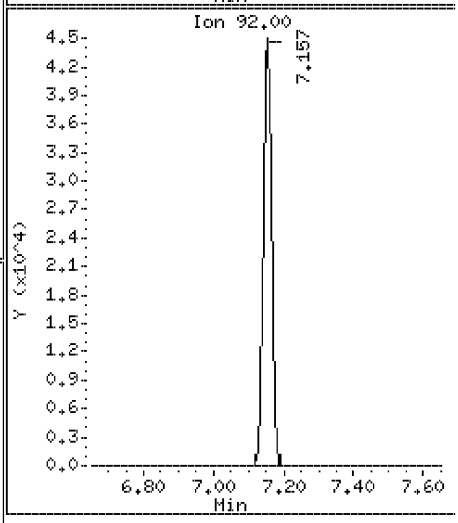
61 Toluene

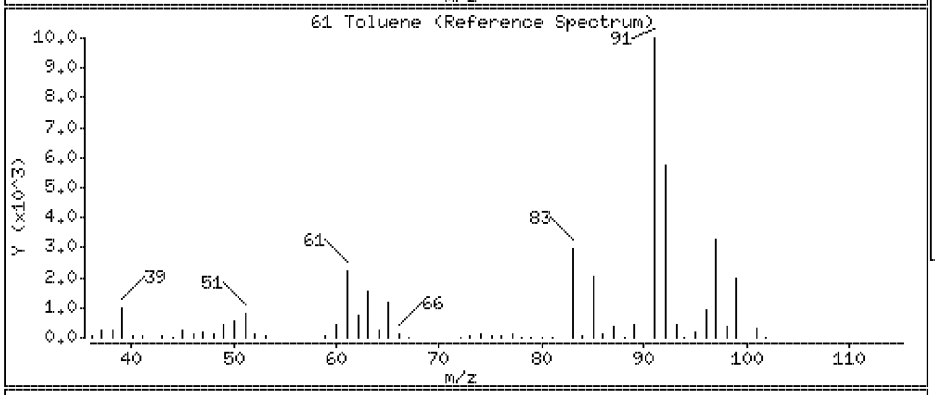
Concentration: 3.87 ppbv

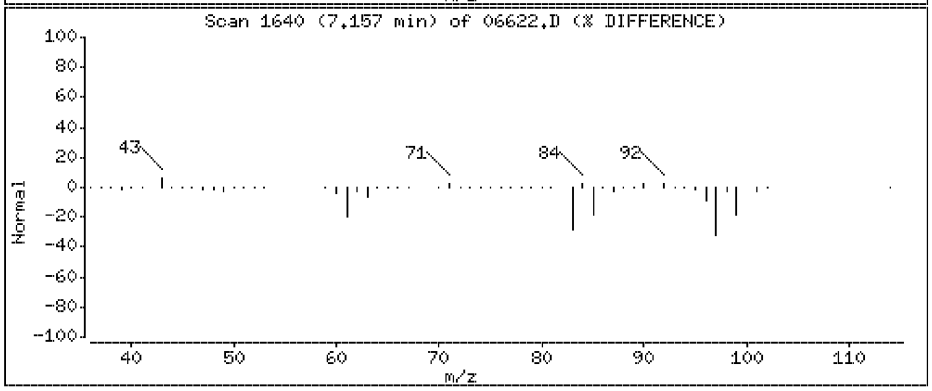












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

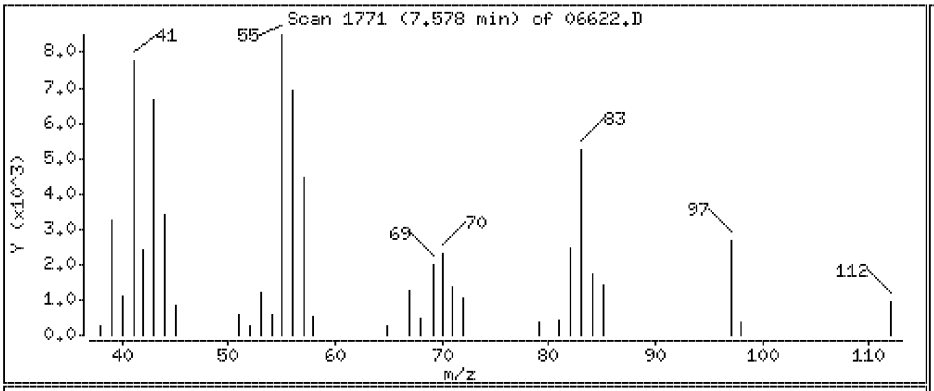
Operator: NCK

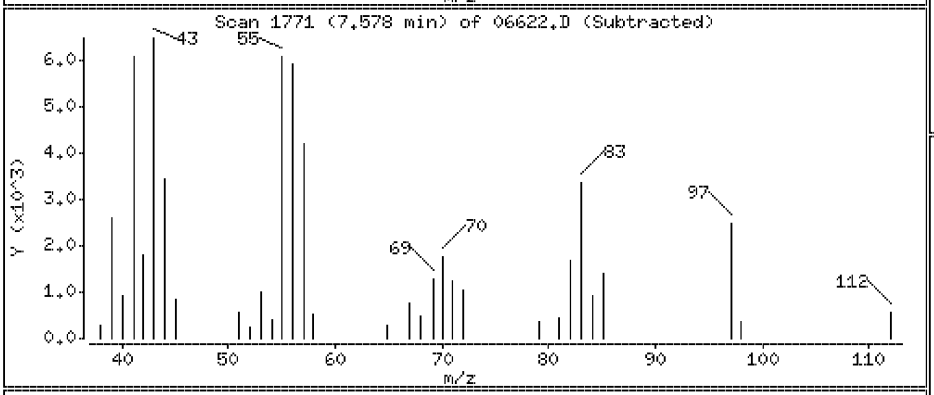
Column phase: J&W DB-5

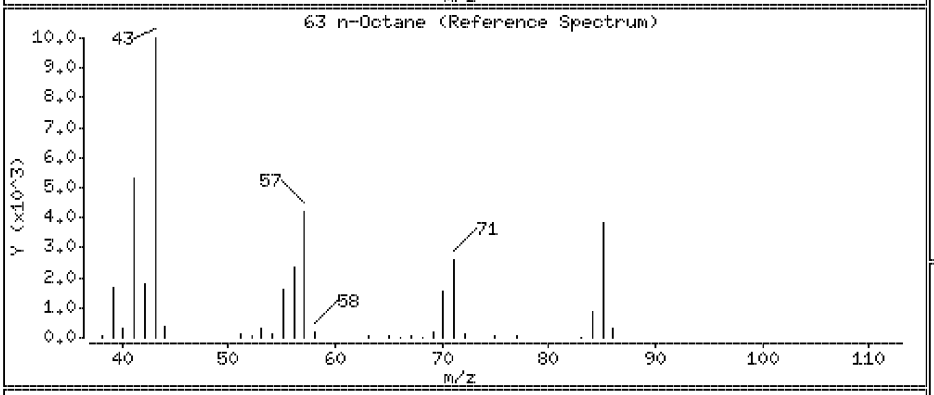
Column diameter: 0.32

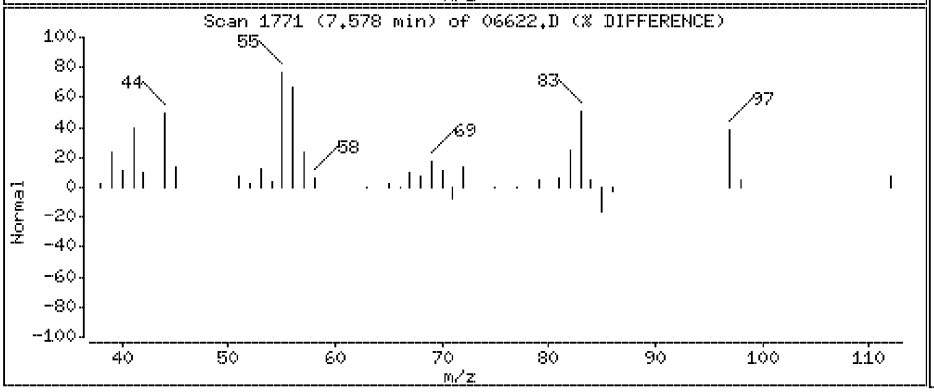
63 n-Octane

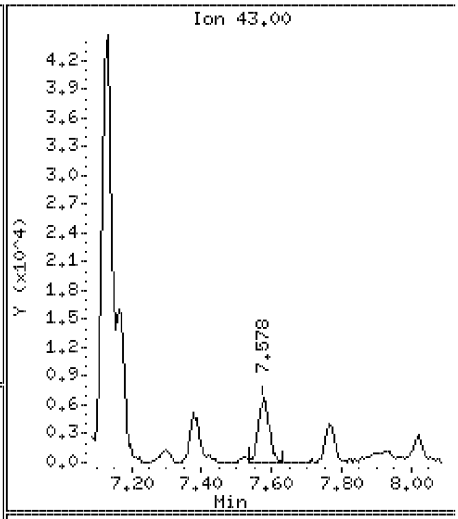
Concentration: 0.808 ppbv

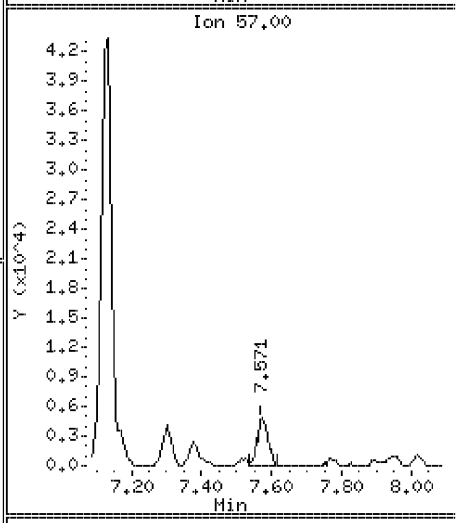


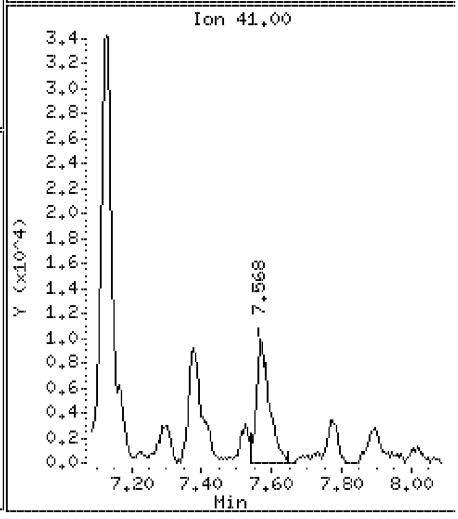












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

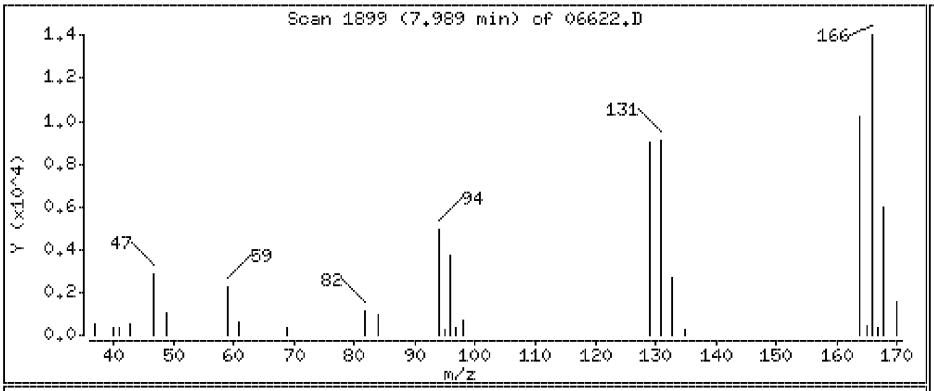
Operator: NCK

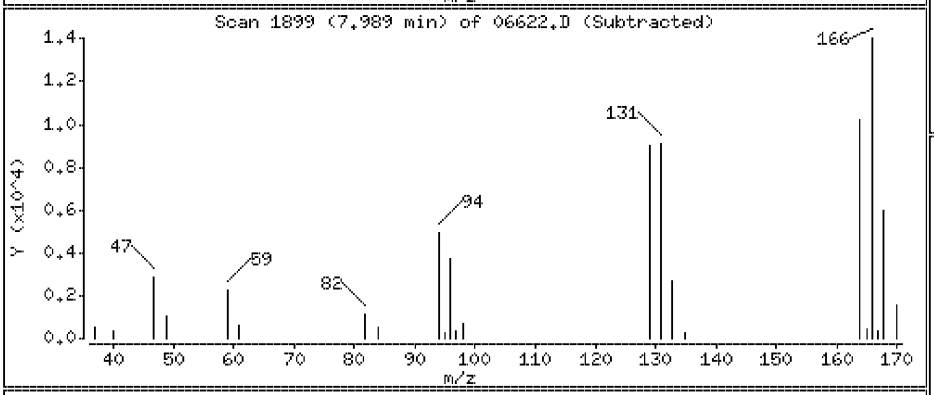
Column phase: J&W DB-5

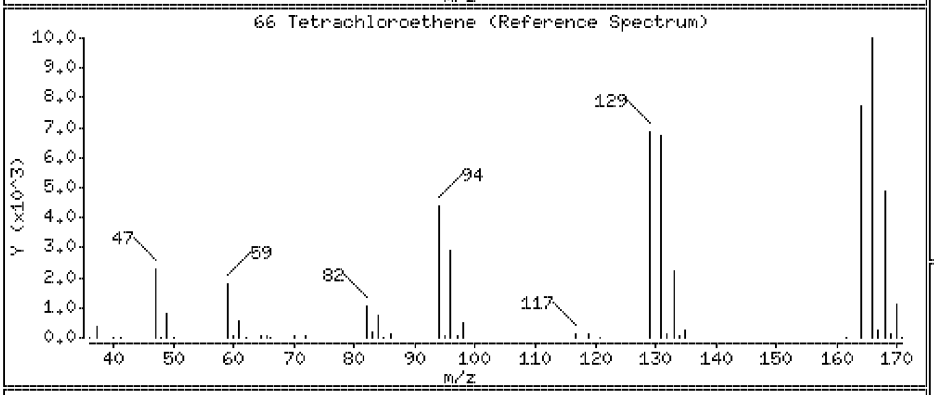
Column diameter: 0.32

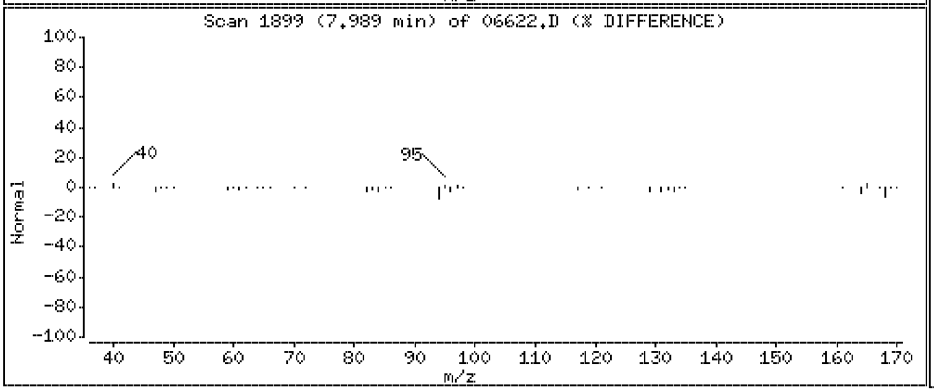
66 Tetrachloroethene

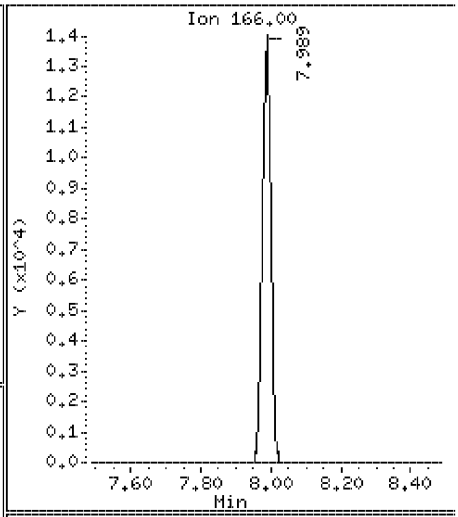
Concentration: 1.29 ppbv

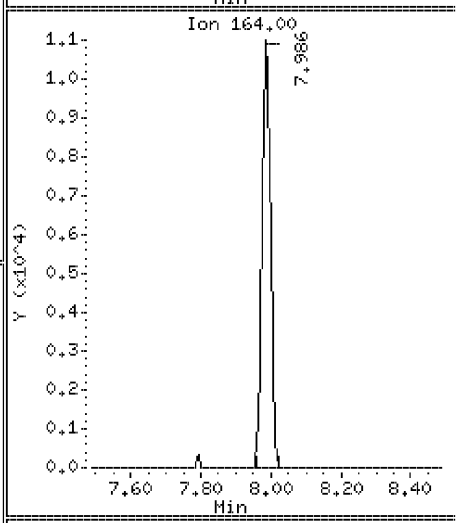


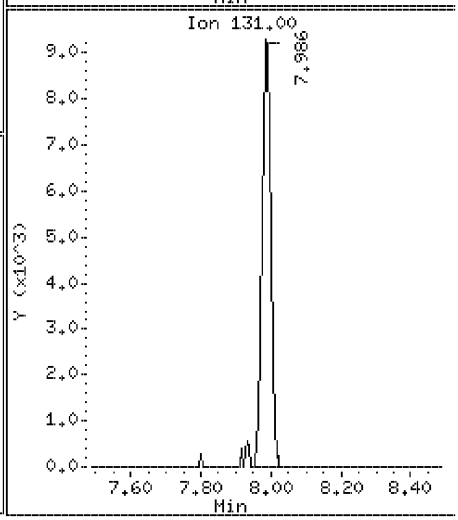












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

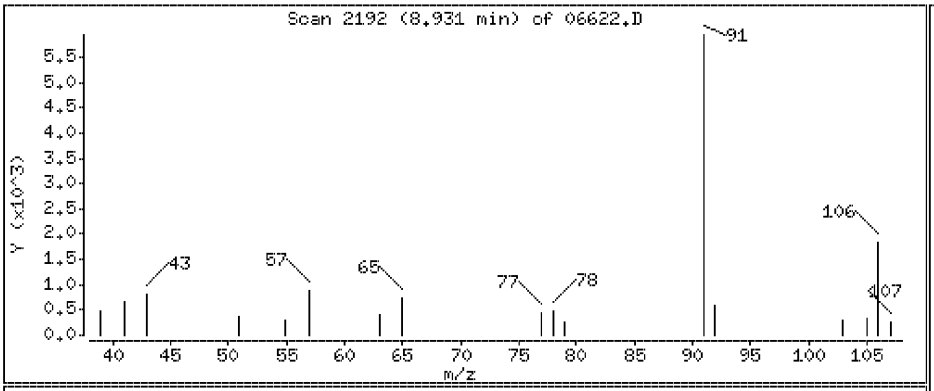
Operator: NCK

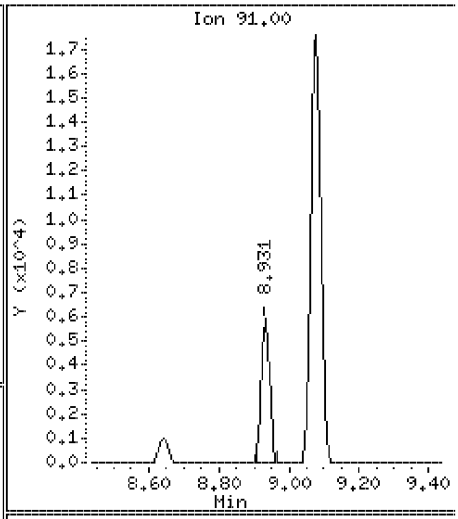
Column phase: J&W DB-5

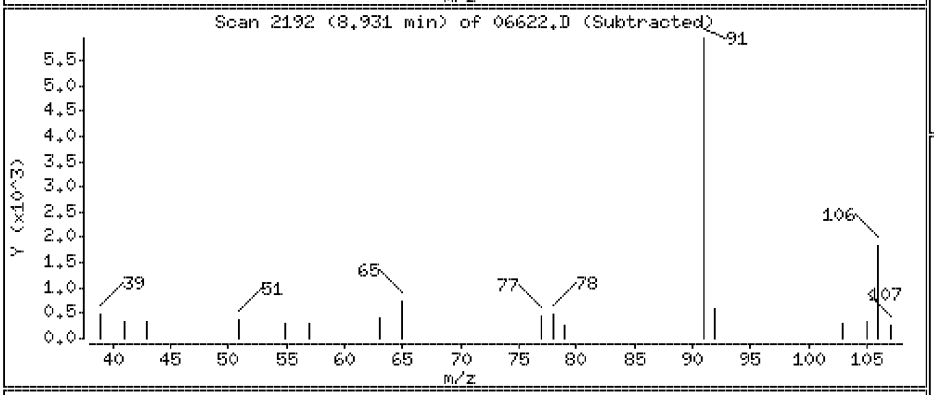
Column diameter: 0.32

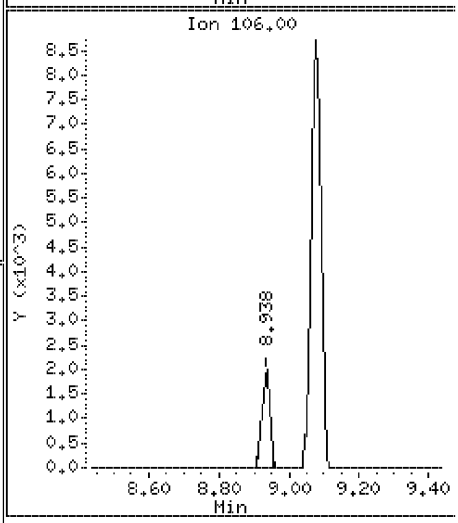
69 Ethyl Benzene

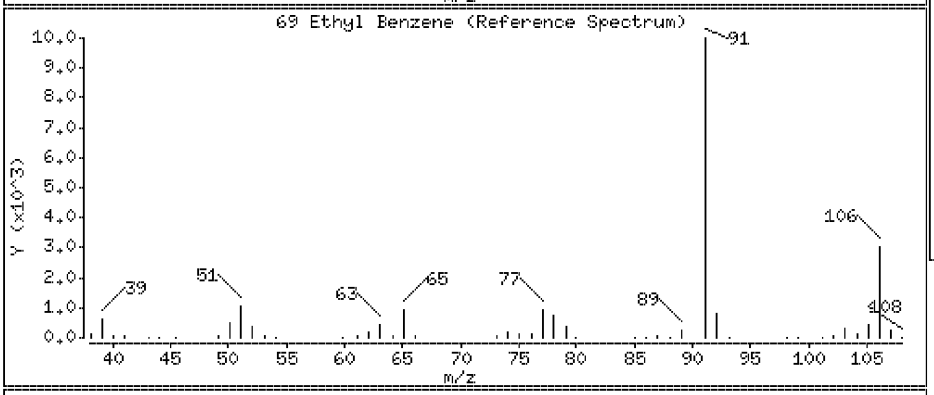
Concentration: 0.258 ppbv

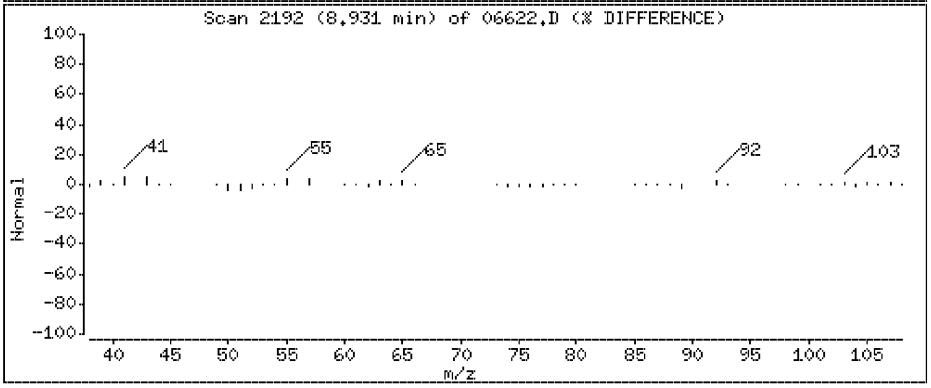












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

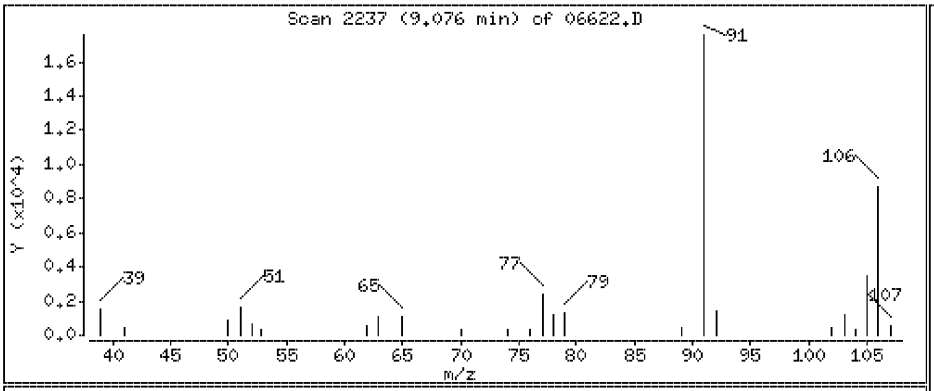
Operator: NCK

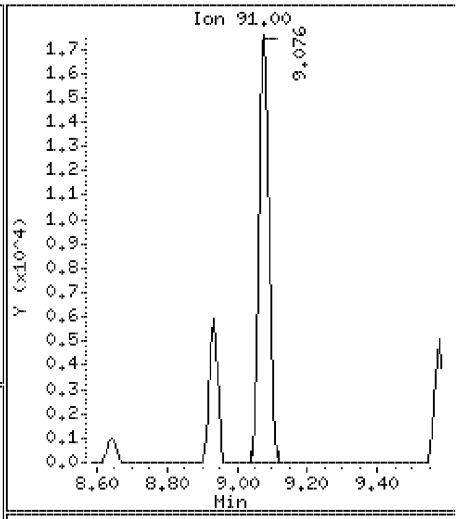
Column phase: J&W DB-5

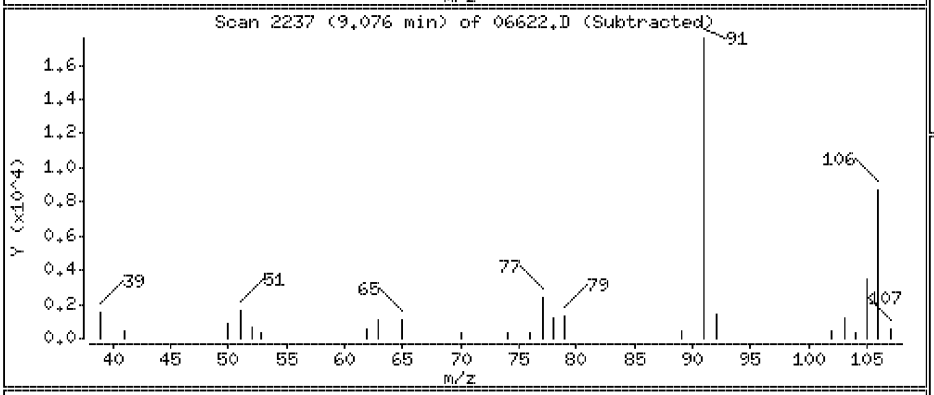
Column diameter: 0.32

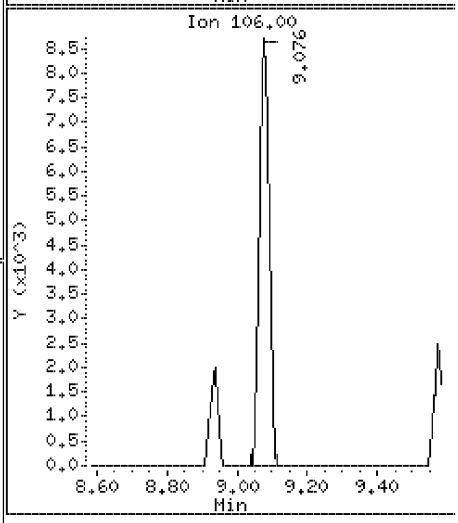
70 m&p-Xylene

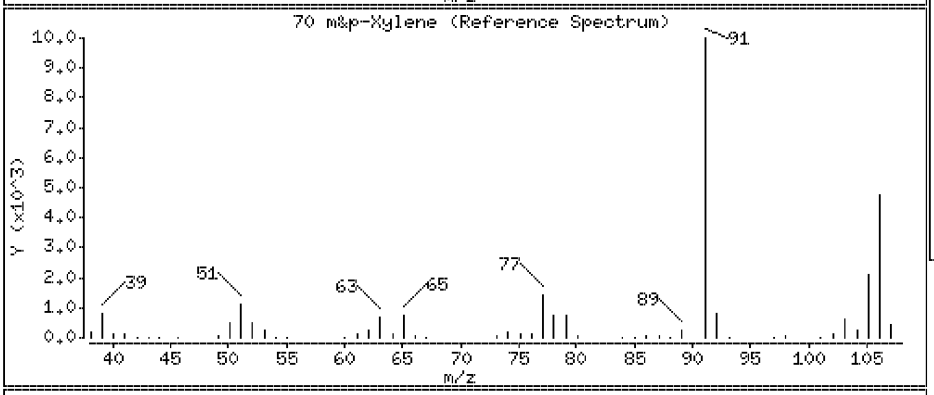
Concentration: 1.15 ppbv

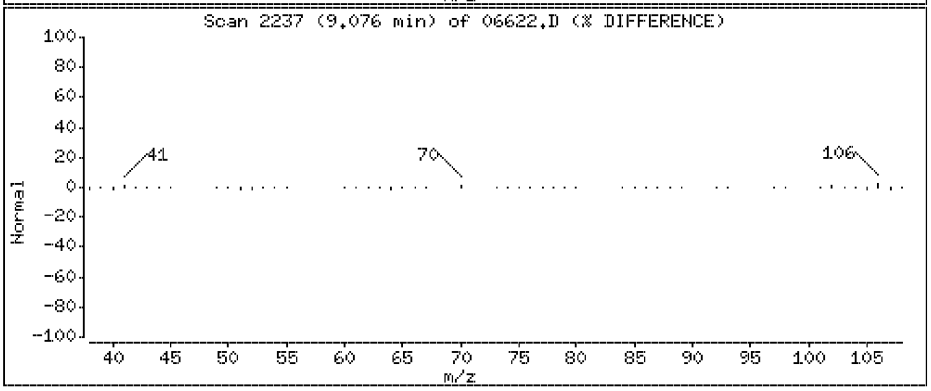












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

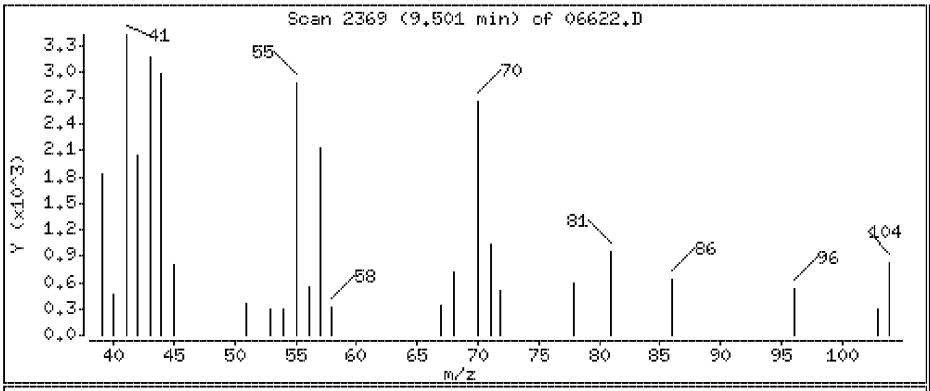
Operator: NCK

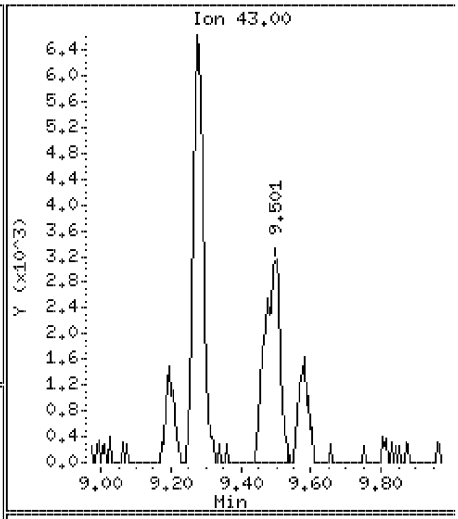
Column phase: J&W DB-5

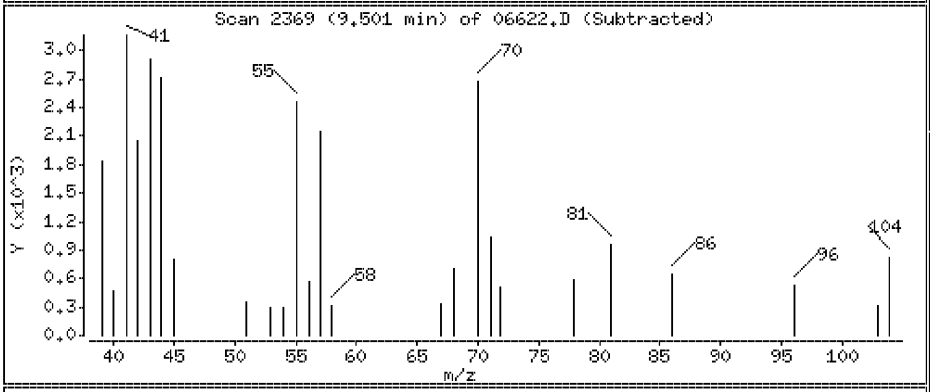
Column diameter: 0.32

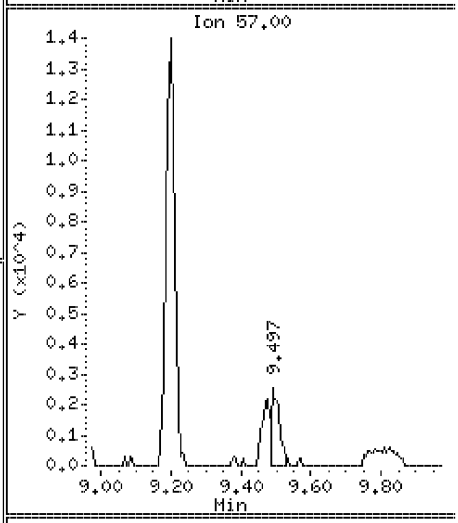
71 n-Nonane

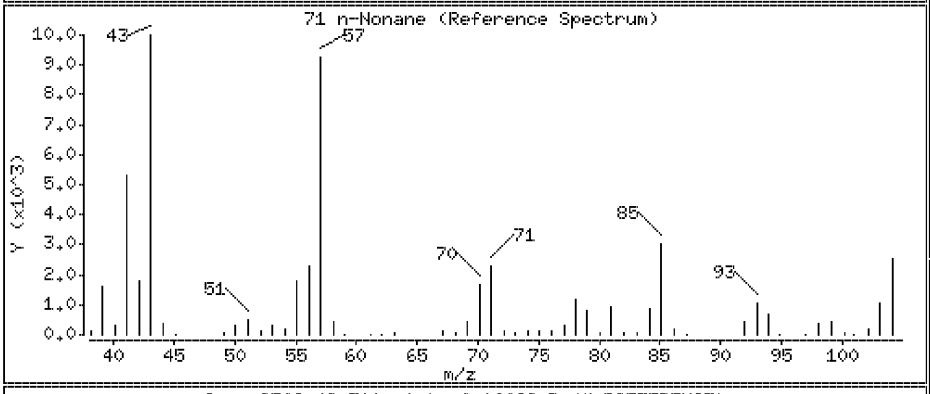
Concentration: 0.617 ppbv

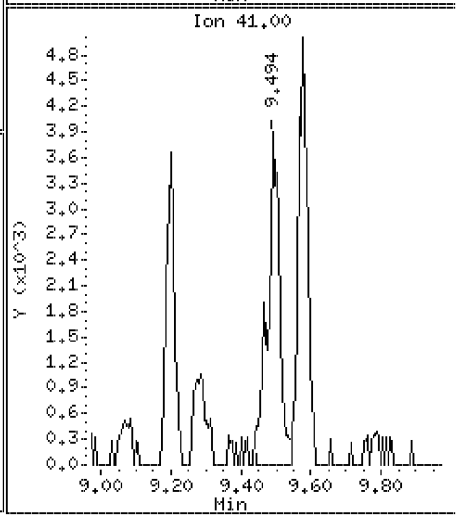


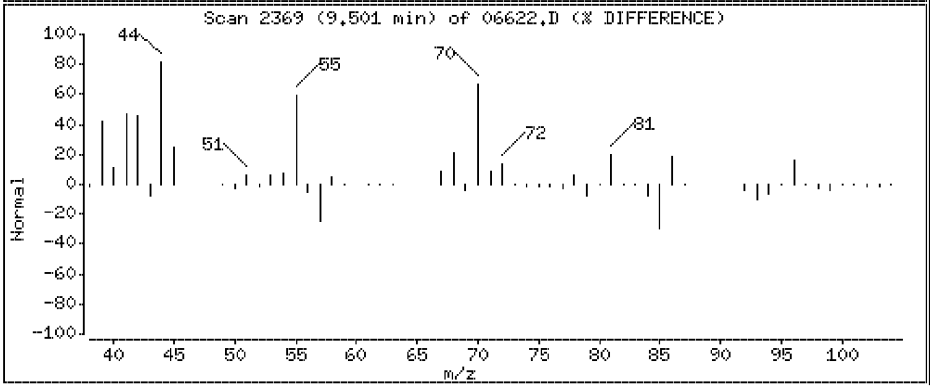












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

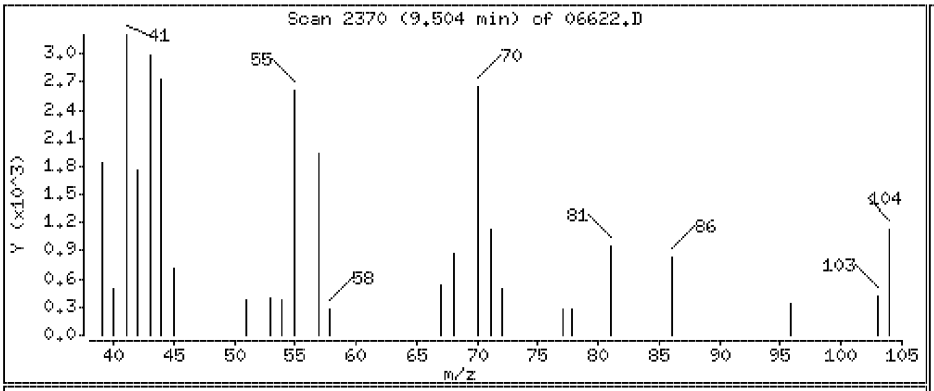
Operator: NCK

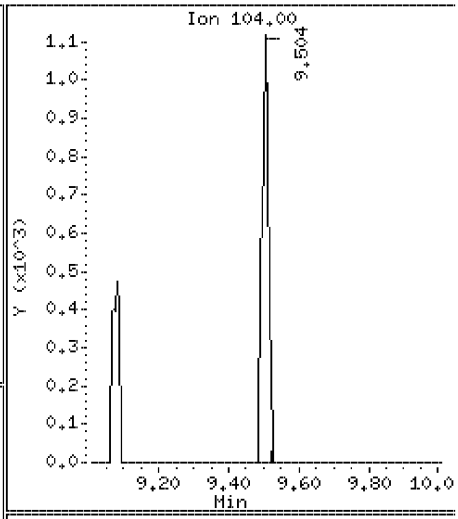
Column phase: J&W DB-5

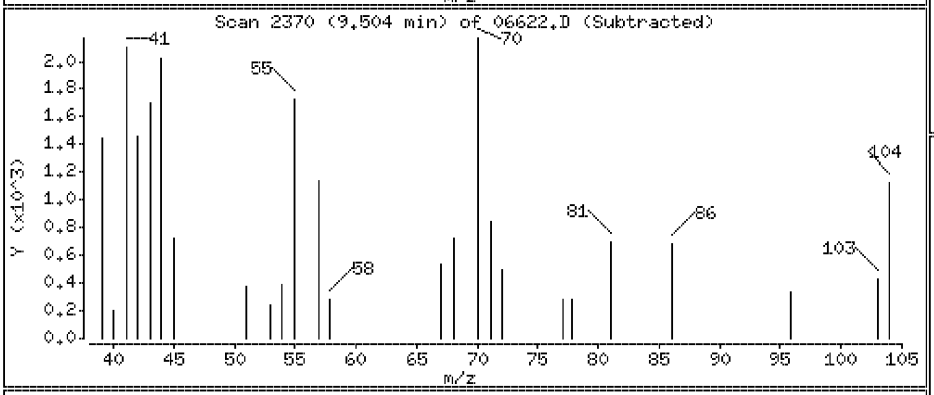
Column diameter: 0.32

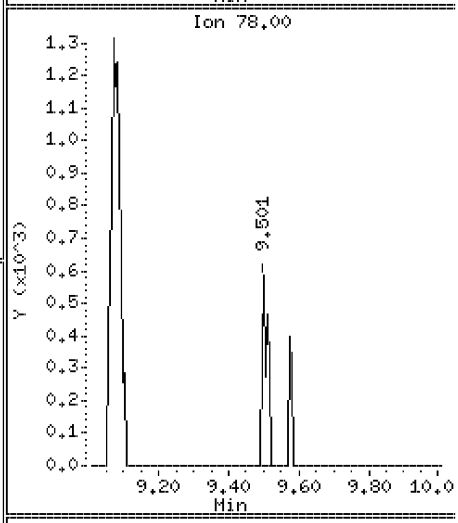
73 Styrene

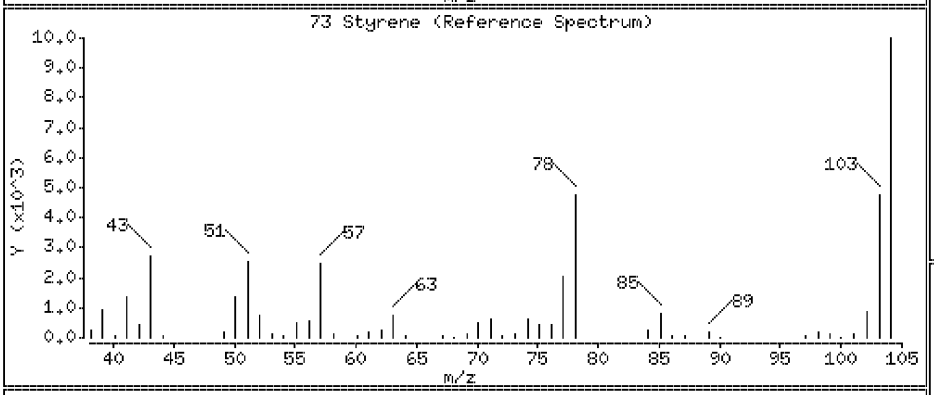
Concentration: 0.190 ppbv

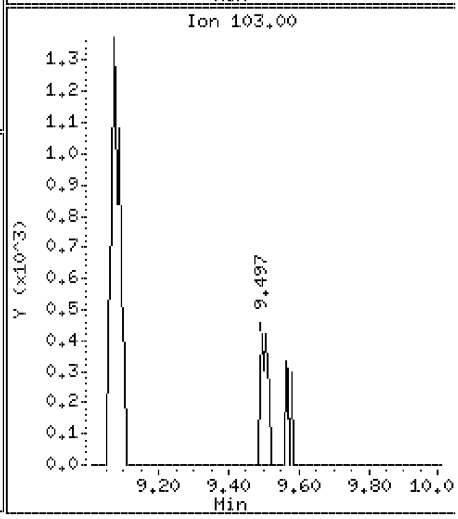


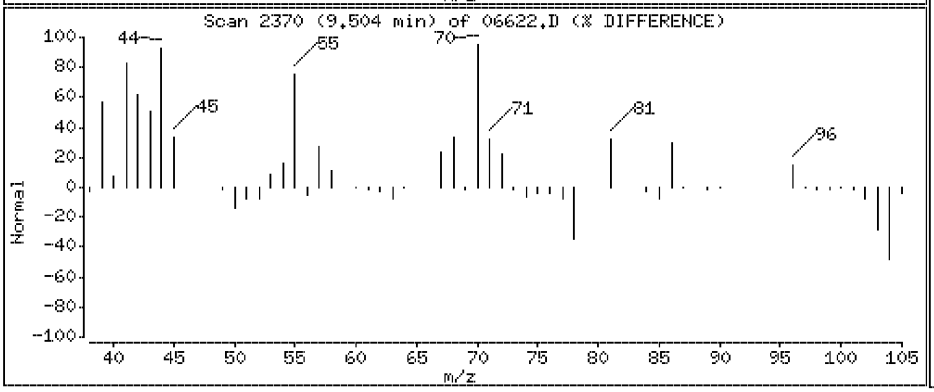












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

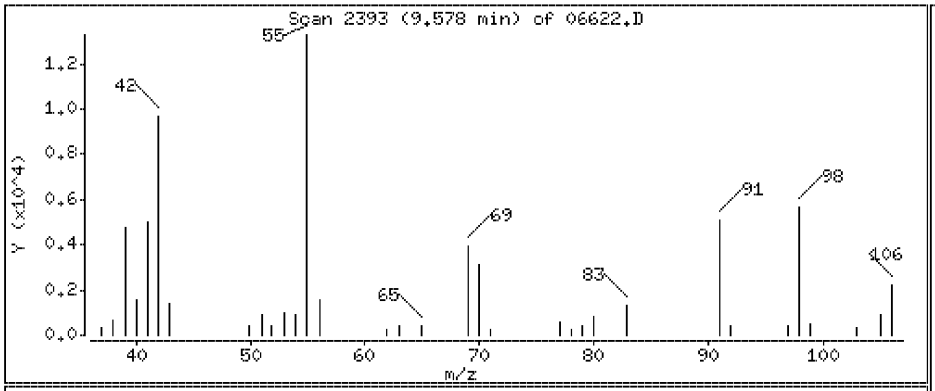
Operator: NCK

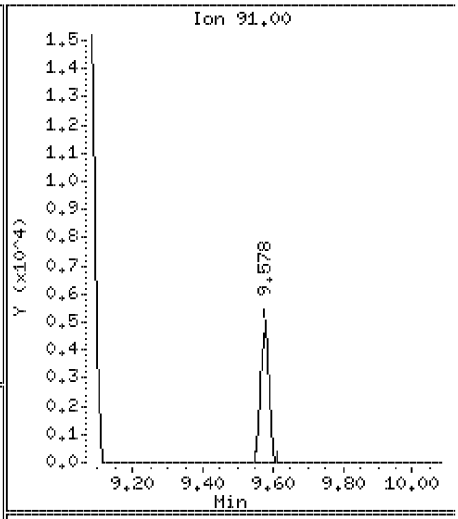
Column phase: J&W DB-5

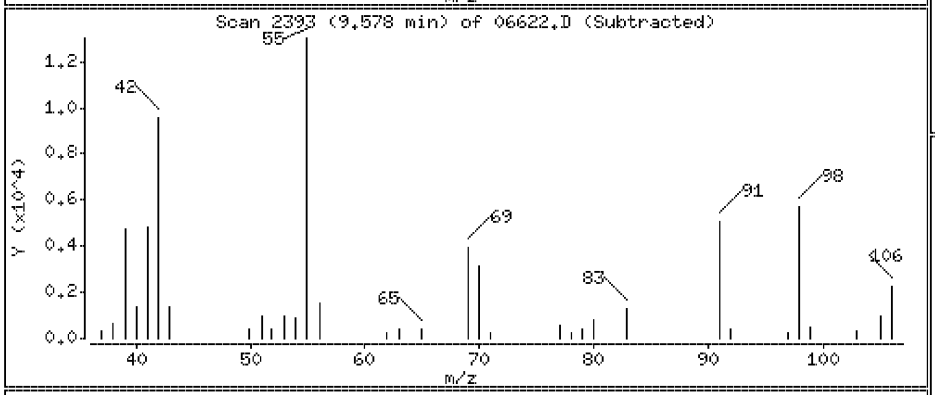
Column diameter: 0.32

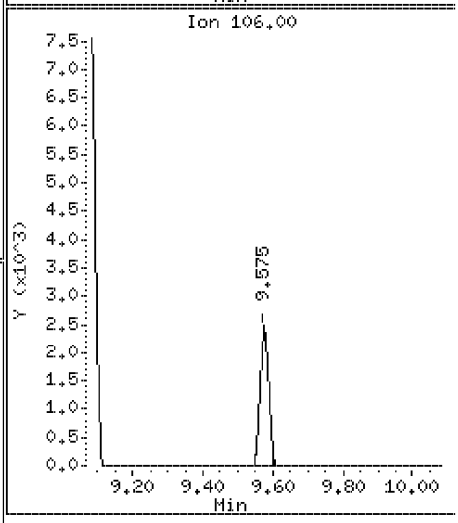
74 o-Xylene

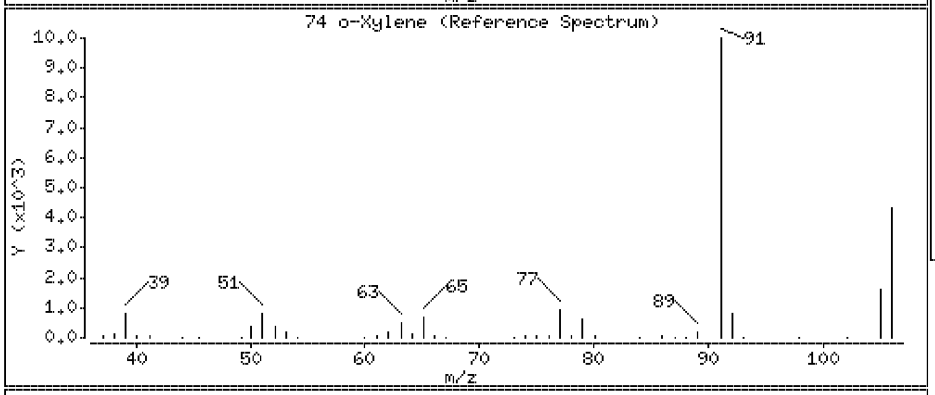
Concentration: 0.268 ppbv

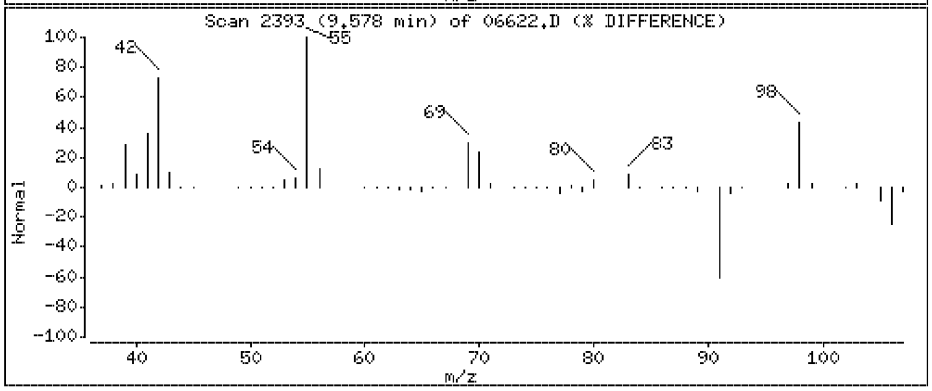












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

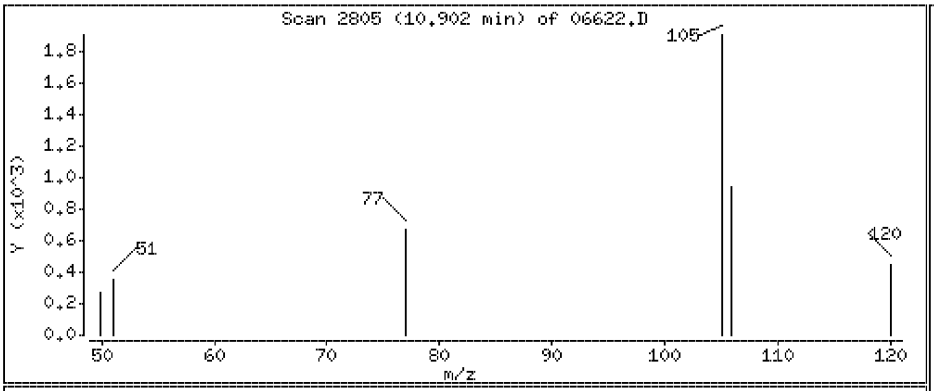
Operator: NCK

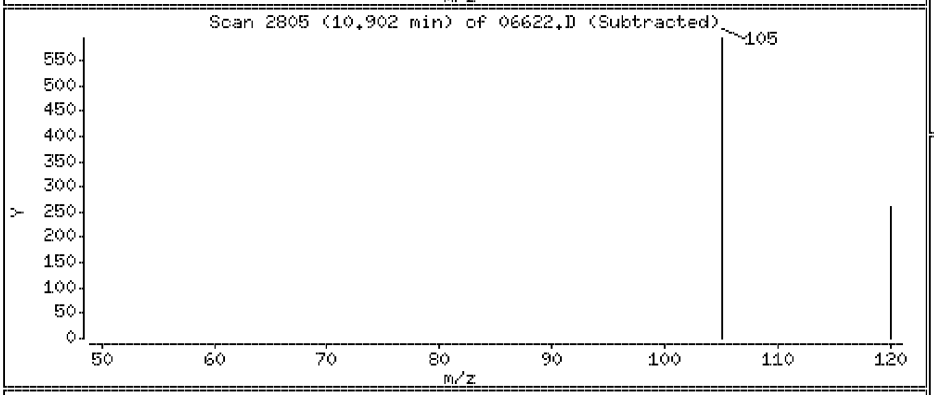
Column phase: J&W DB-5

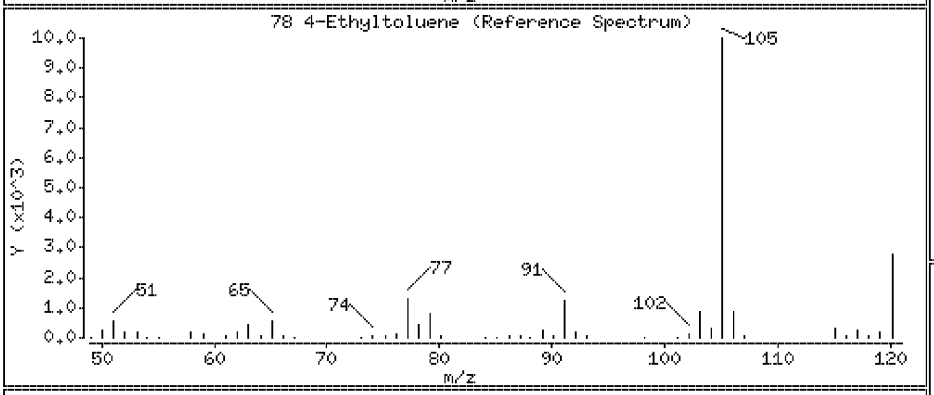
Column diameter: 0.32

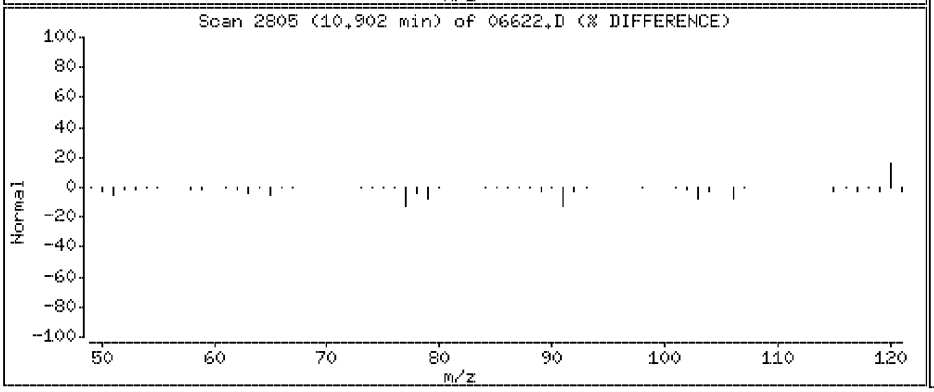
78 4-Ethyltoluene

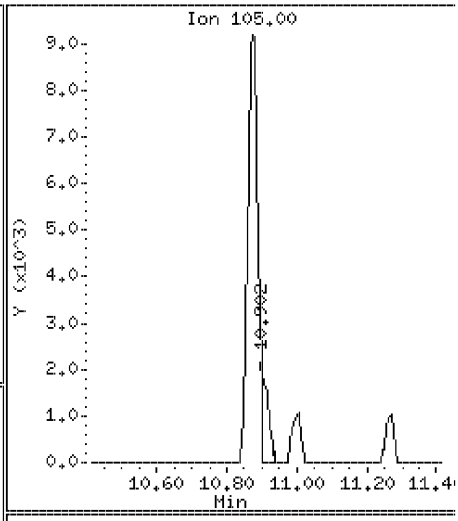
Concentration: 0.233 ppbv

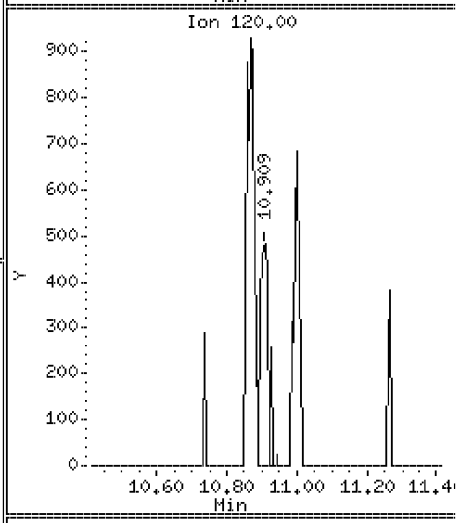


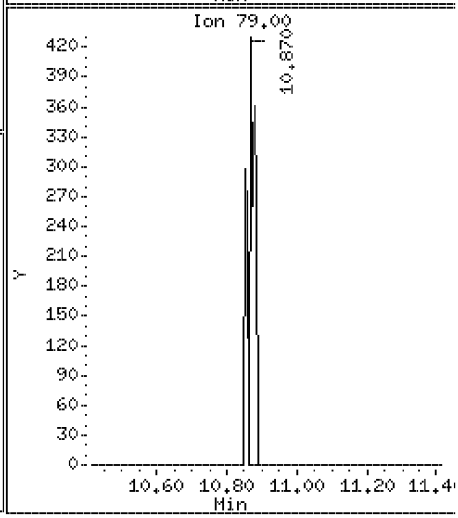












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

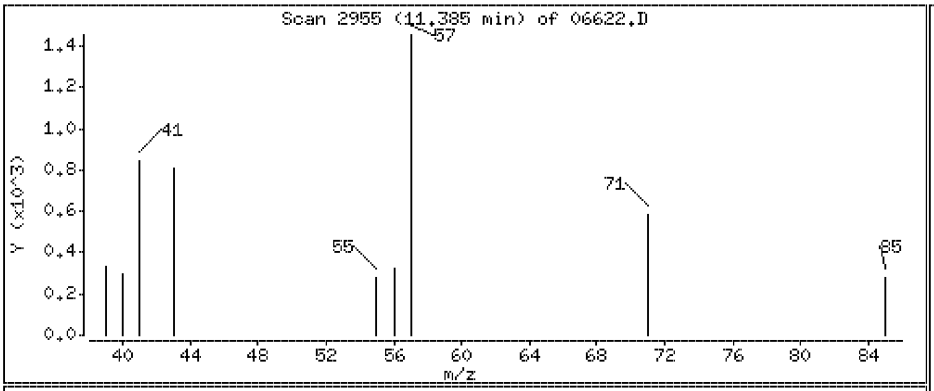
Operator: NCK

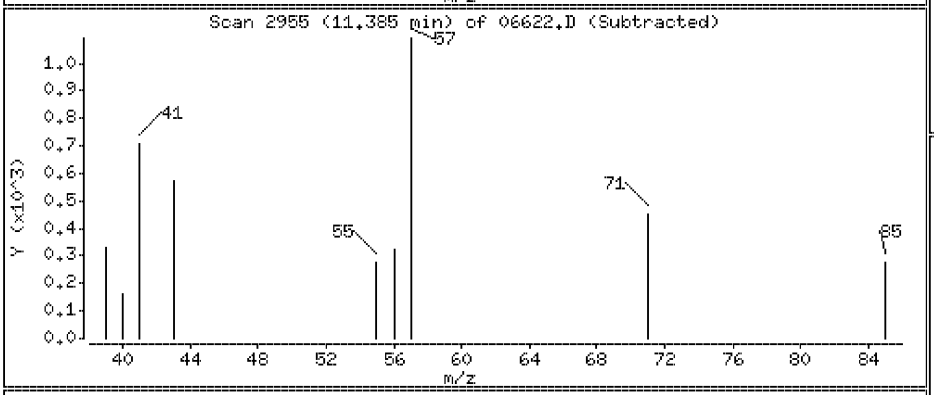
Column phase: J&W DB-5

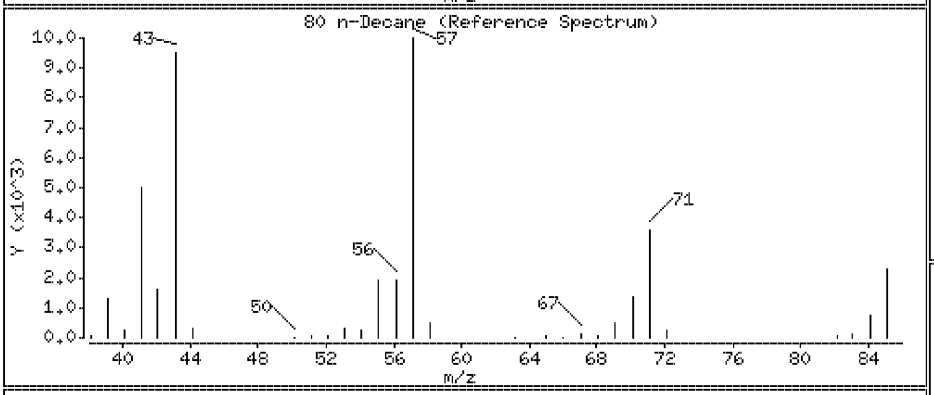
Column diameter: 0.32

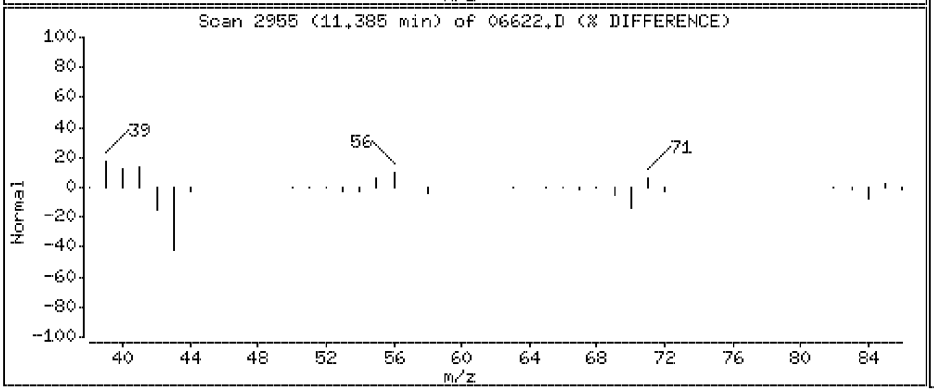
80 n-Decane

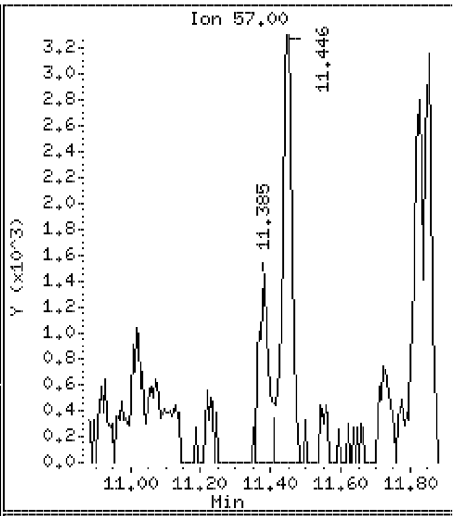
Concentration: 0.545 ppbv

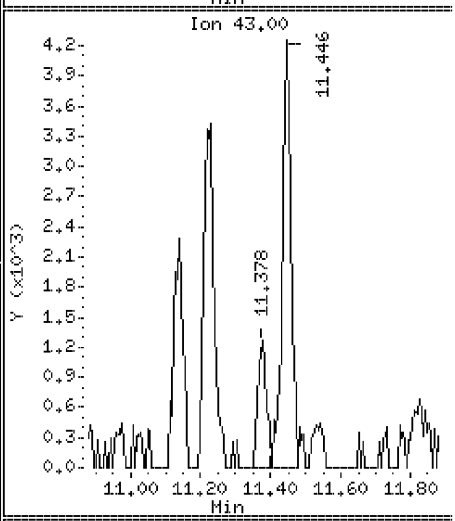


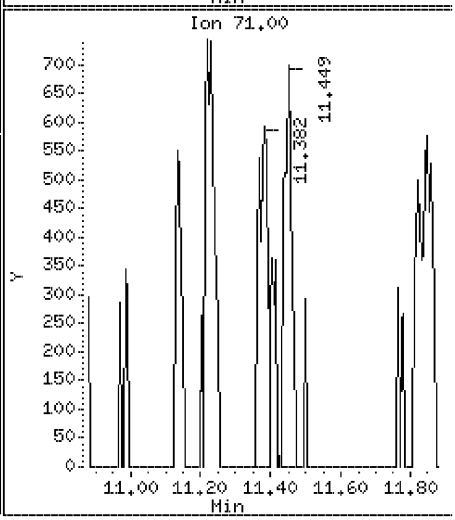












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

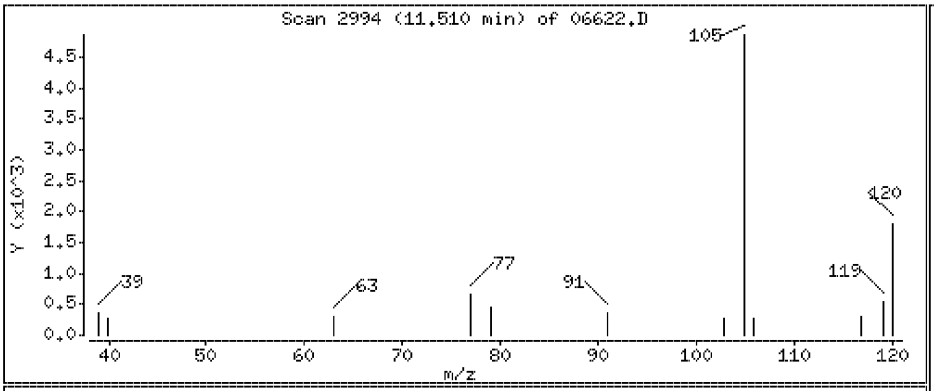
Operator: NCK

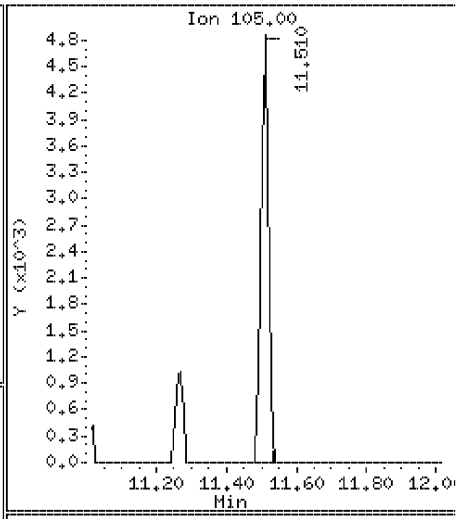
Column phase: J&W DB-5

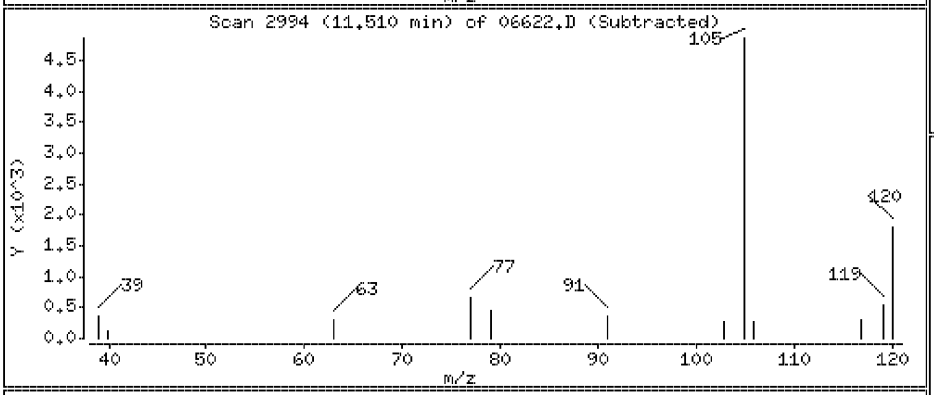
Column diameter: 0.32

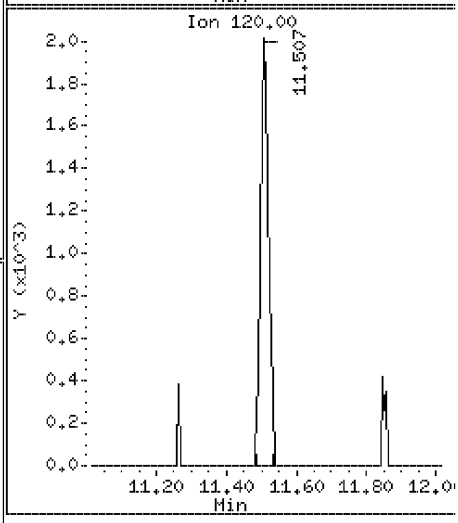
82 1,2,4-Trimethylbenzene

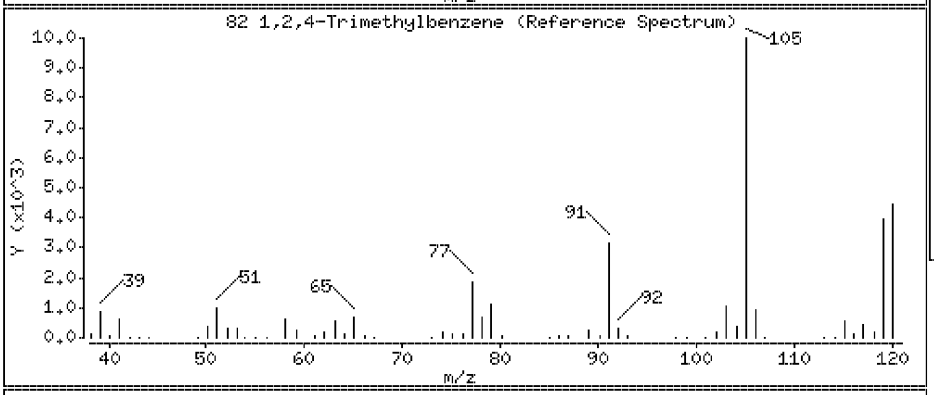
Concentration: 0.225 ppbv

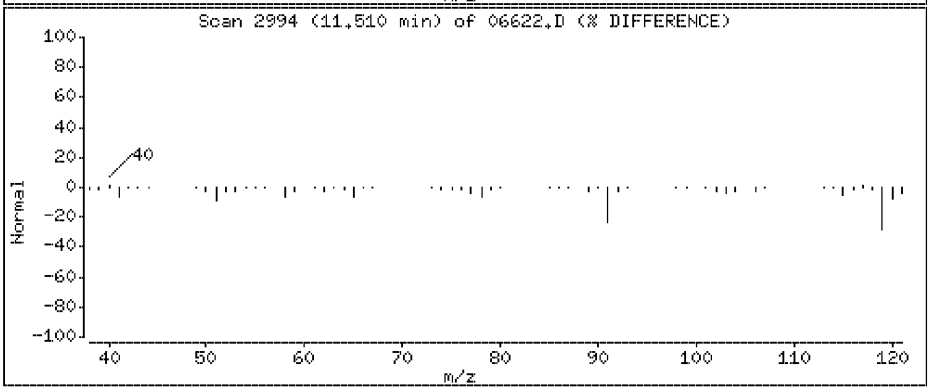












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06622.D

Date : 07-MAR-2017 18:33

Client ID:

Instrument: 10airB.i

Sample Info:

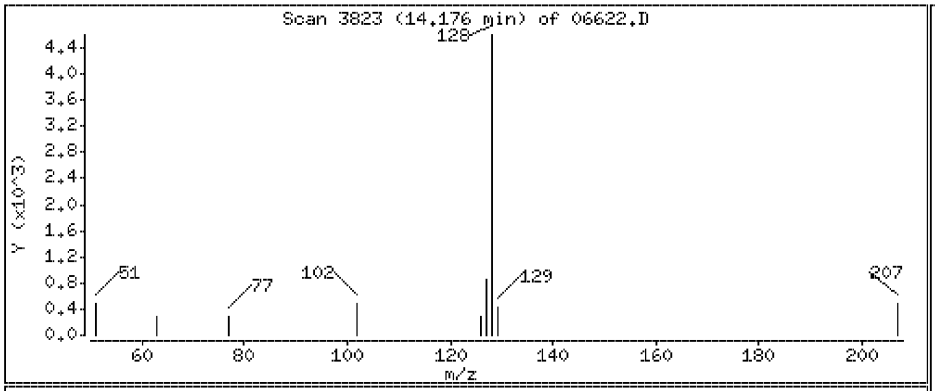
Operator: NCK

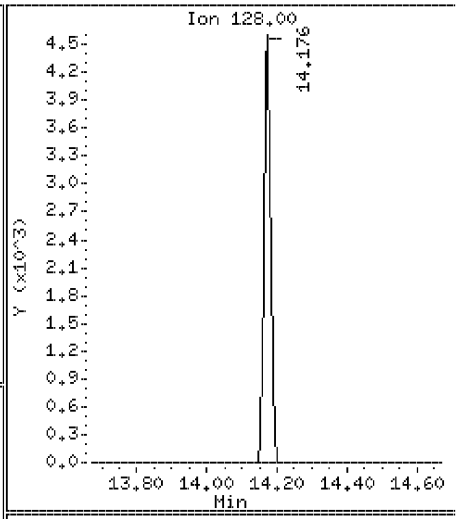
Column phase: J&W DB-5

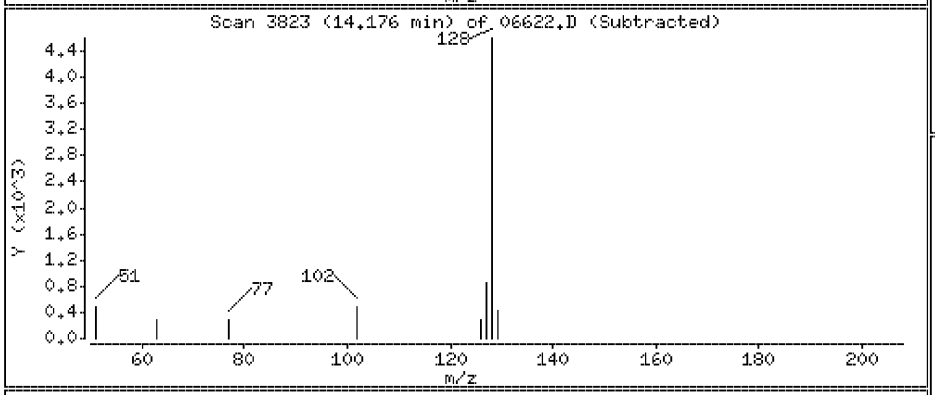
Column diameter: 0.32

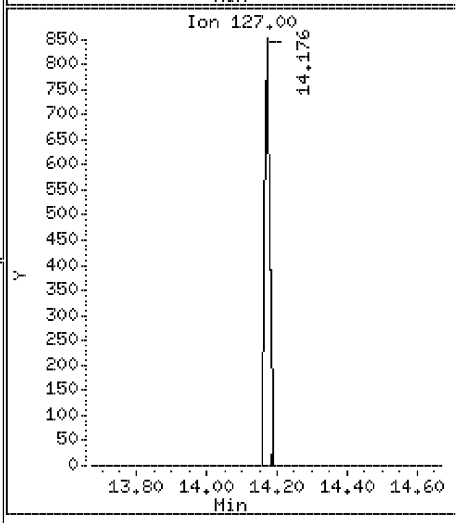
94 Naphthalene

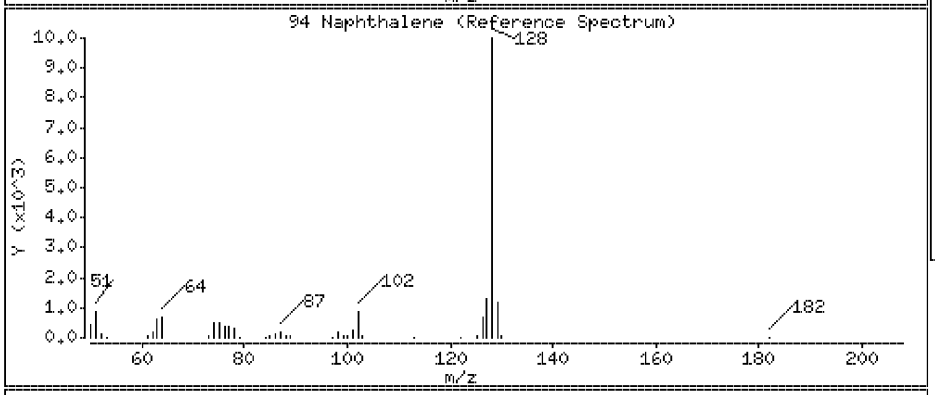
Concentration: 0.858 ppbv

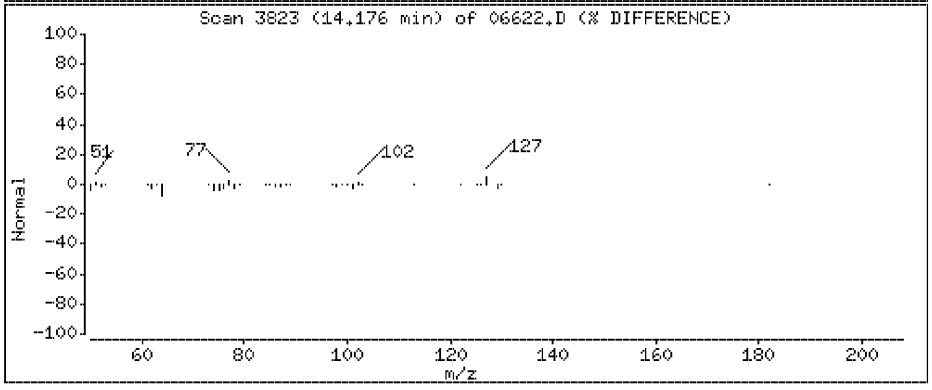






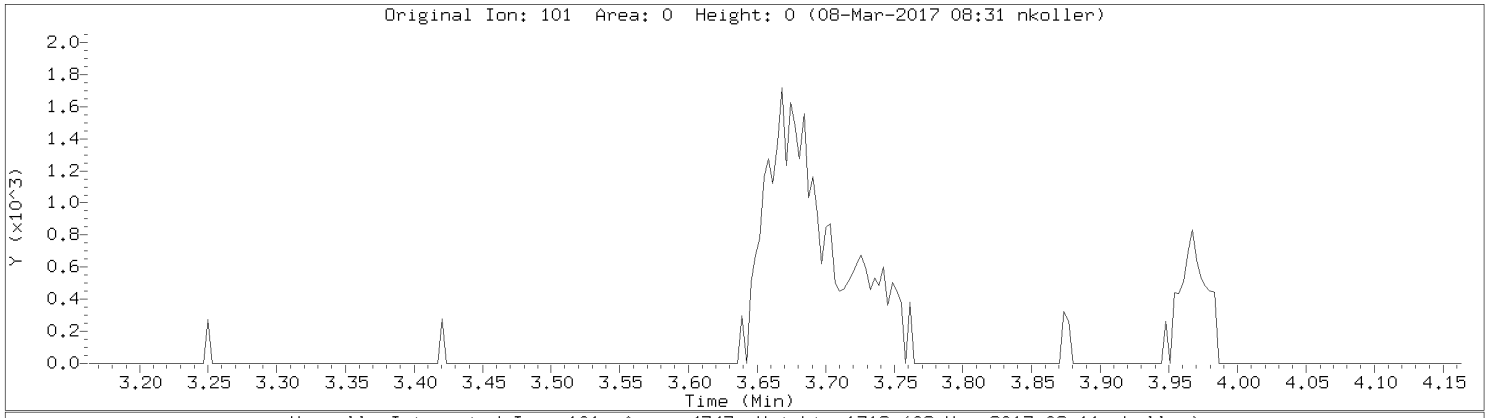


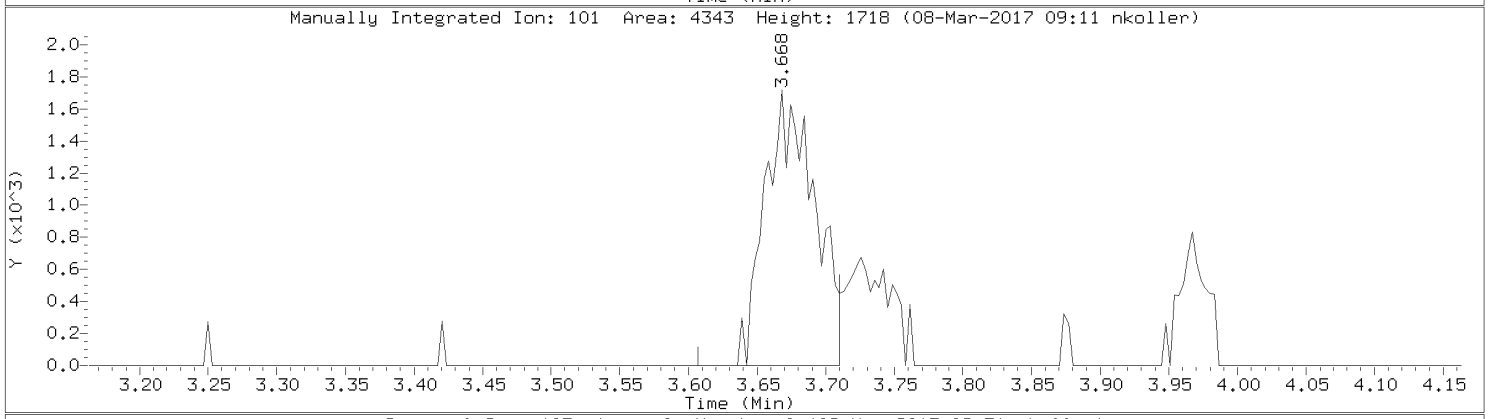


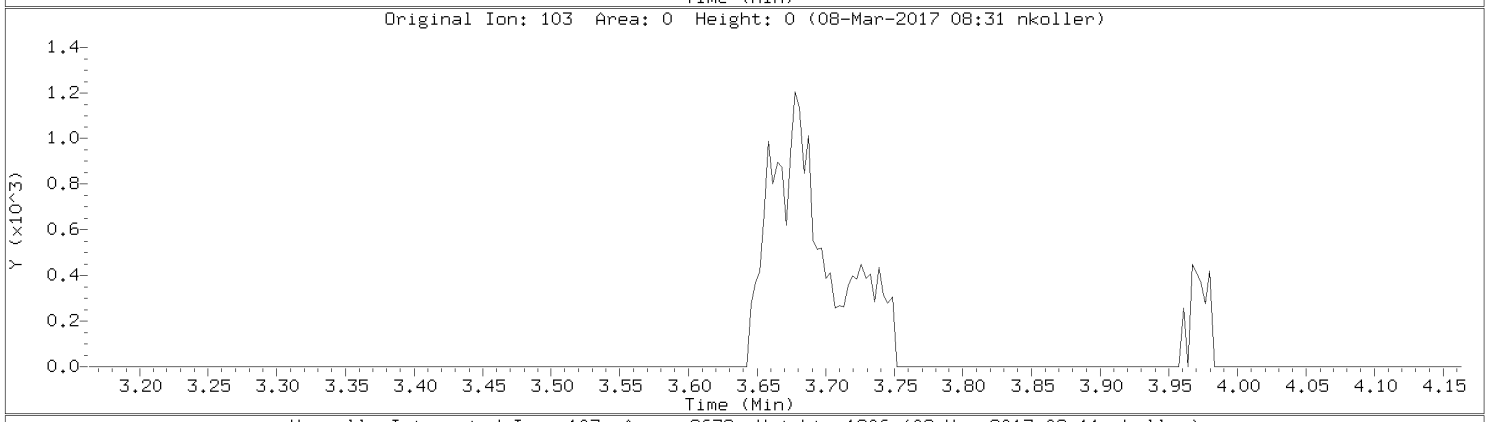


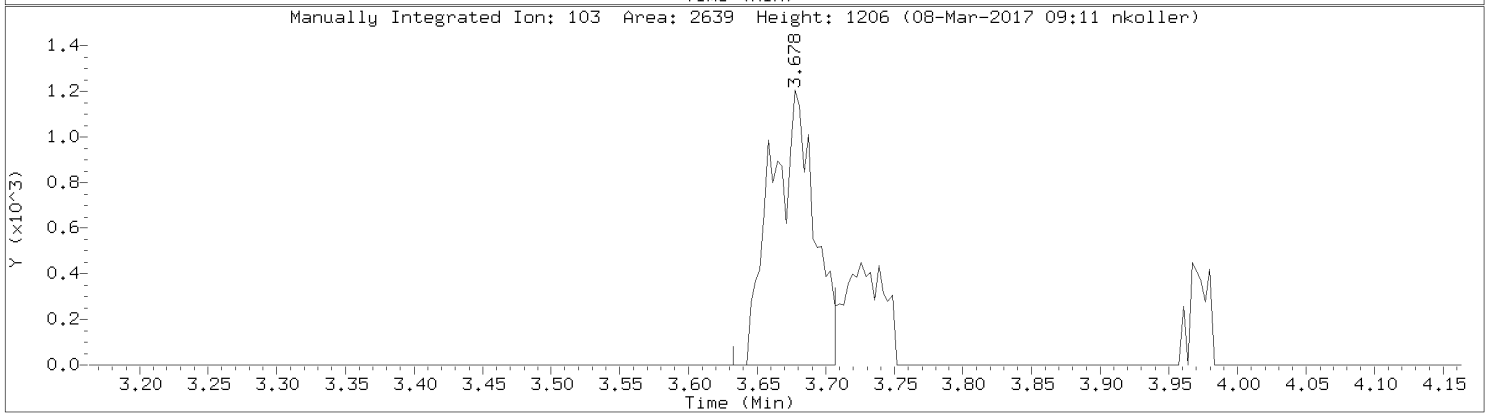
Data File: \\192.168.10.12\chem\10airB.i\030717.b/06622.D
Injection Date: 07-MAR-2017 18:33
Instrument: 10airB.i
Lab Sample ID: 10380193014

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

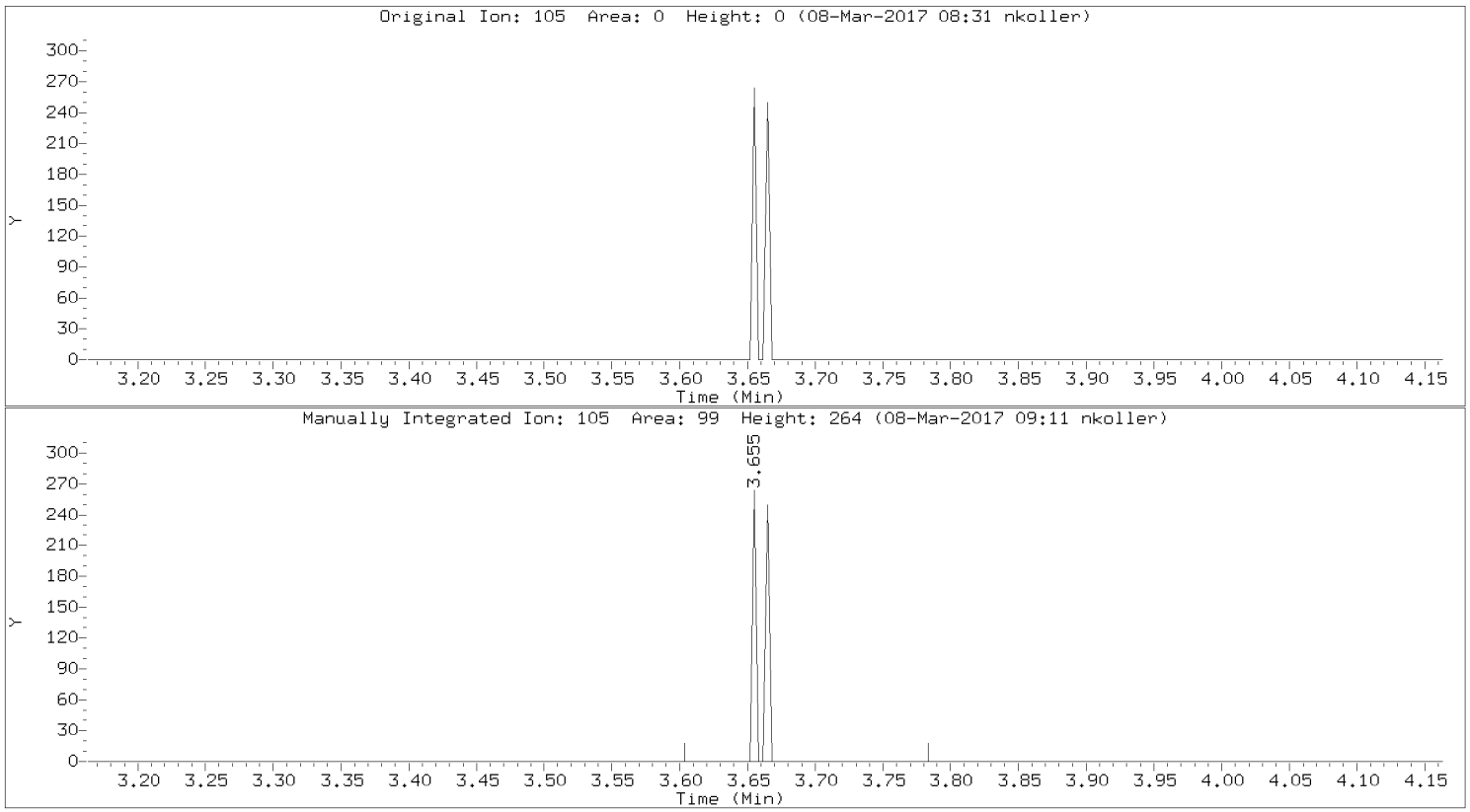






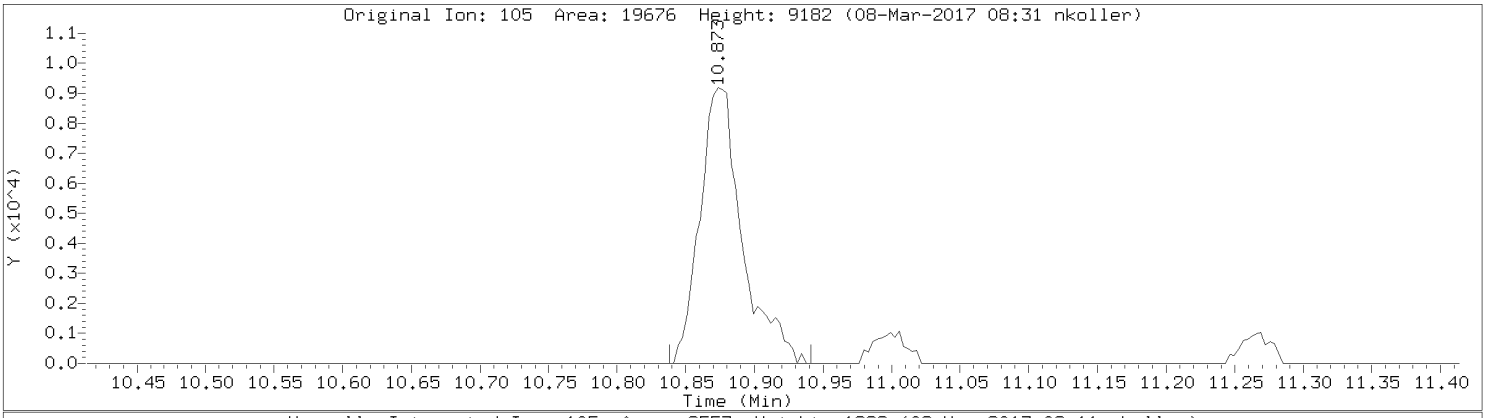


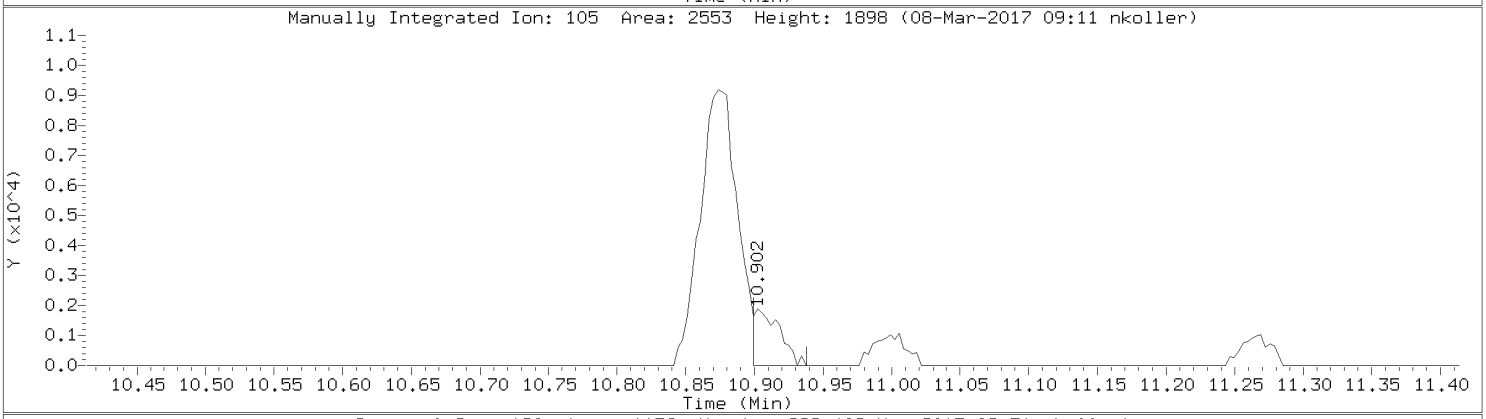
Data File: \\192.168.10.12\chem\10airB.i\030717.b/06622.D
Injection Date: 07-MAR-2017 18:33
Instrument: 10airB.i
Lab Sample ID: 10380193014

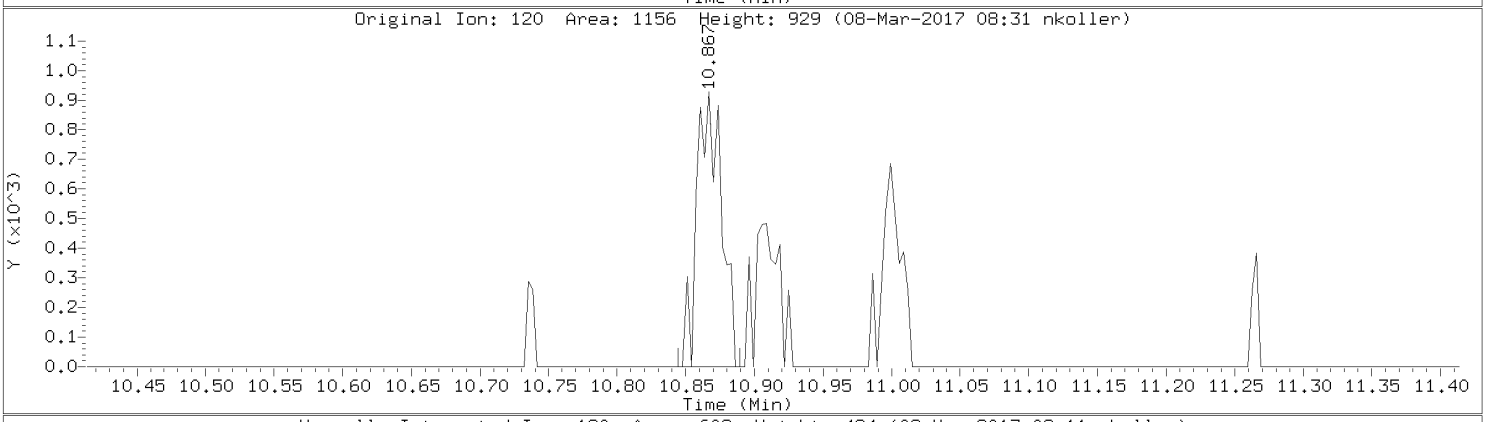


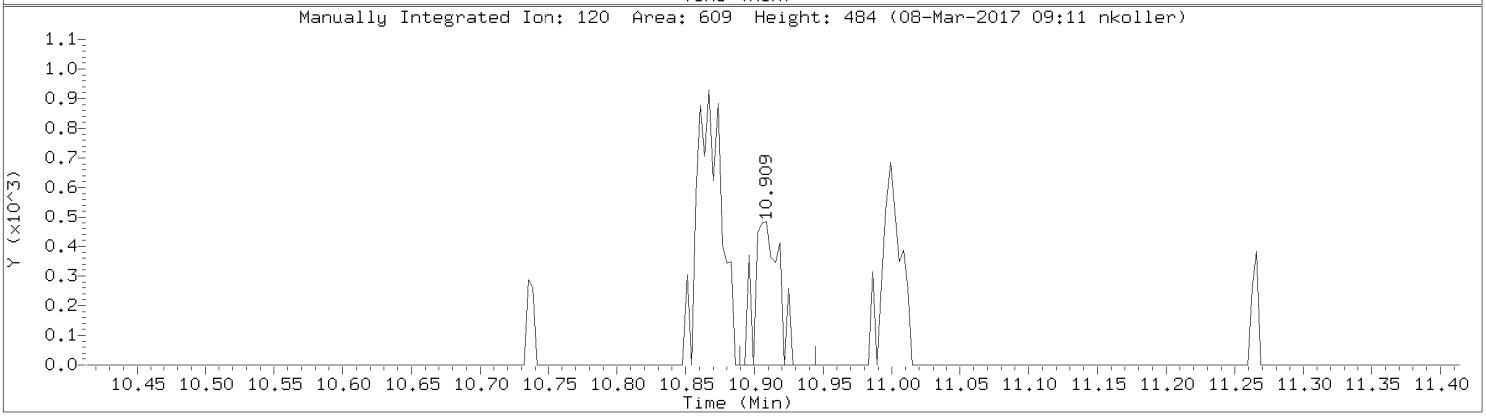
Data File: \\192.168.10.12\chem\10airB.i\030717.b/06622.D
Injection Date: 07-MAR-2017 18:33
Instrument: 10airB.i
Lab Sample ID: 10380193014

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

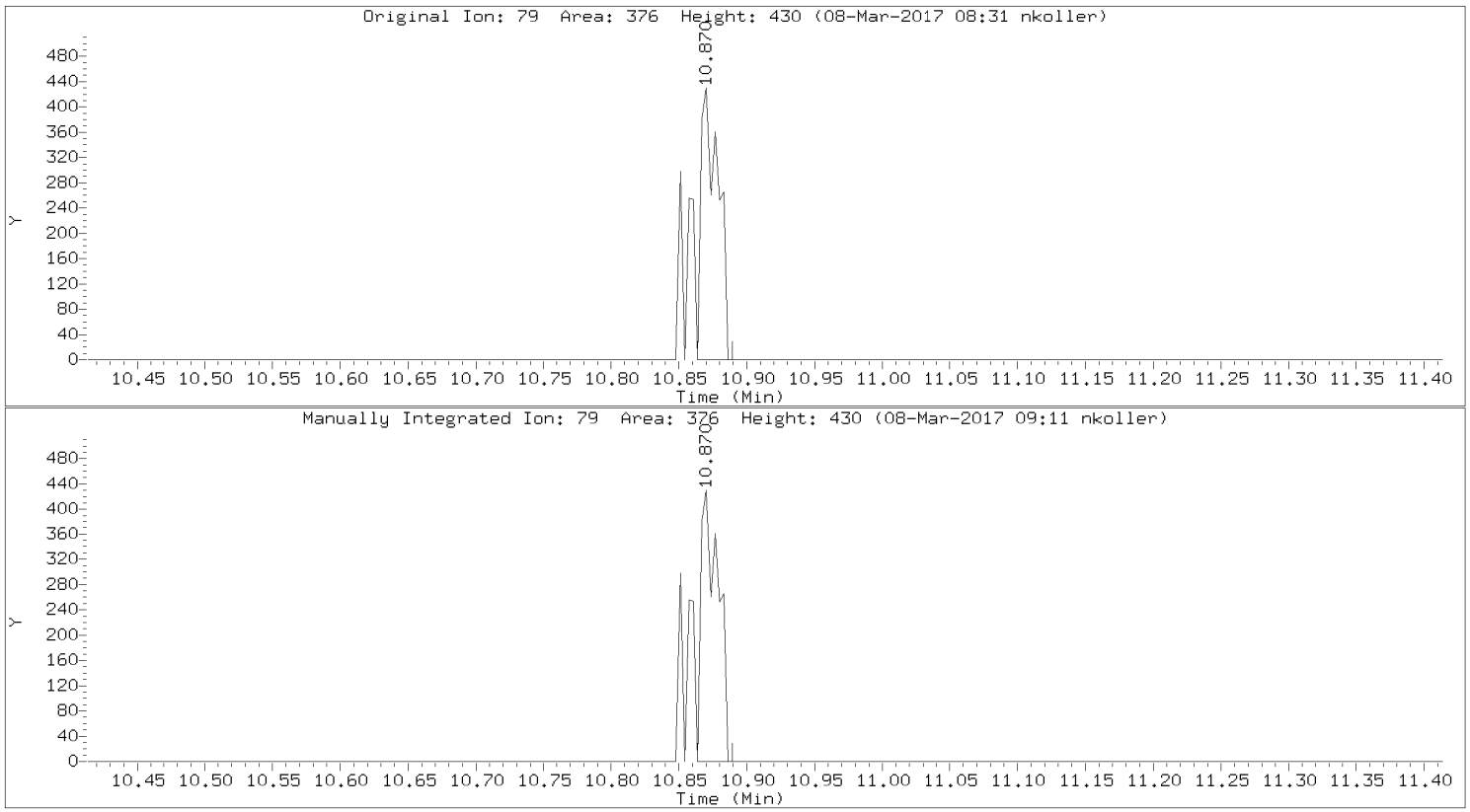






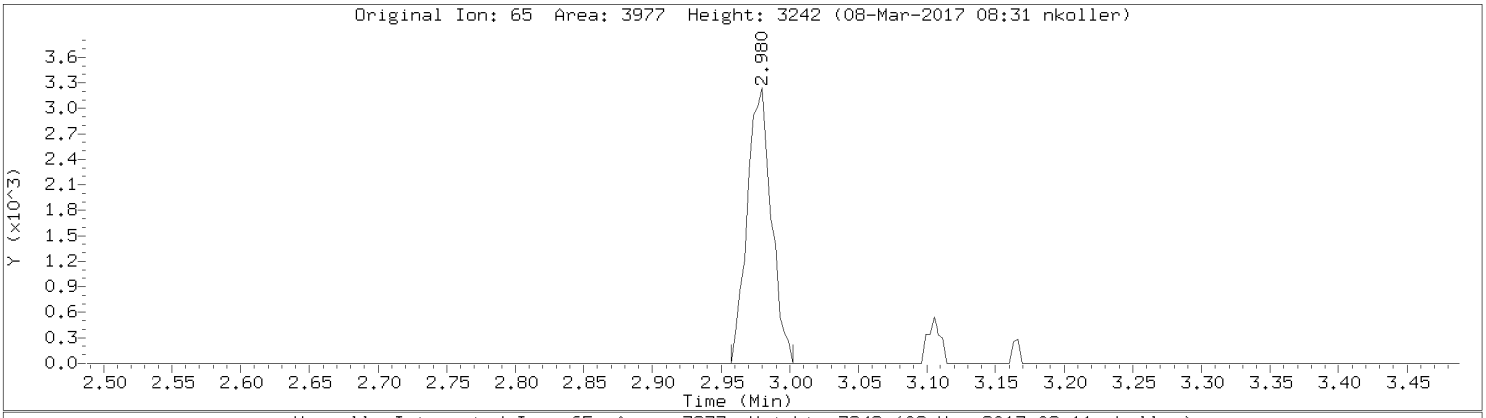


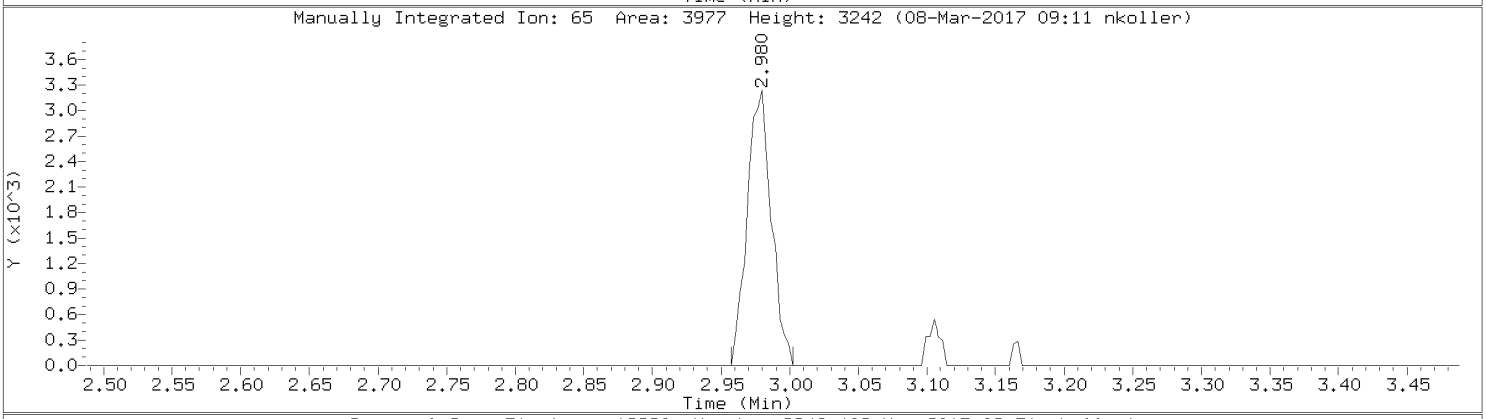
Data File: \\192.168.10.12\chem\10airB.i\030717.b/06622.D
Injection Date: 07-MAR-2017 18:33
Instrument: 10airB.i
Lab Sample ID: 10380193014

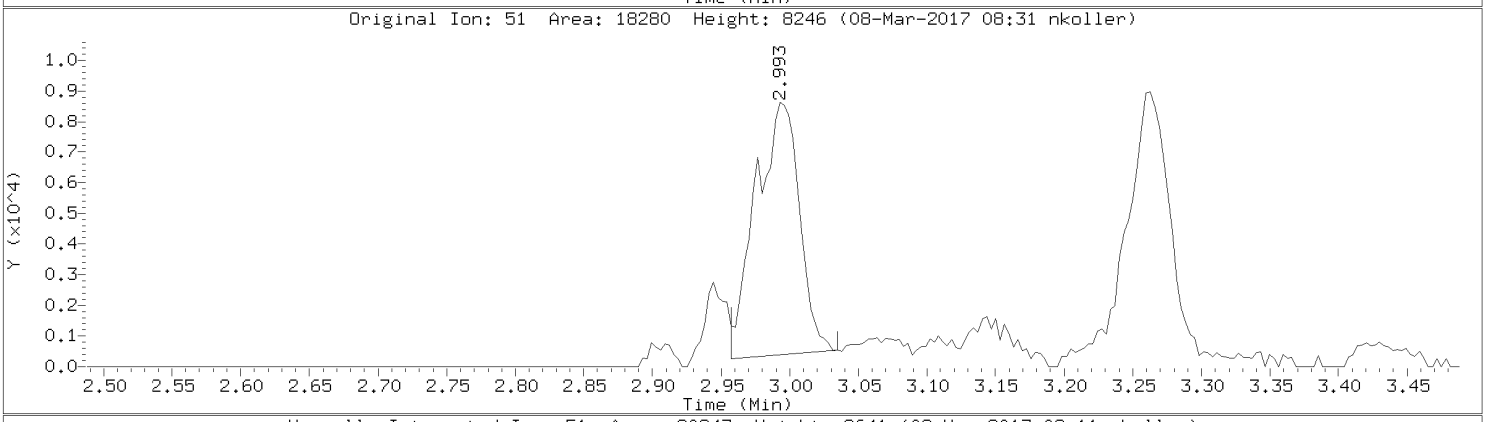


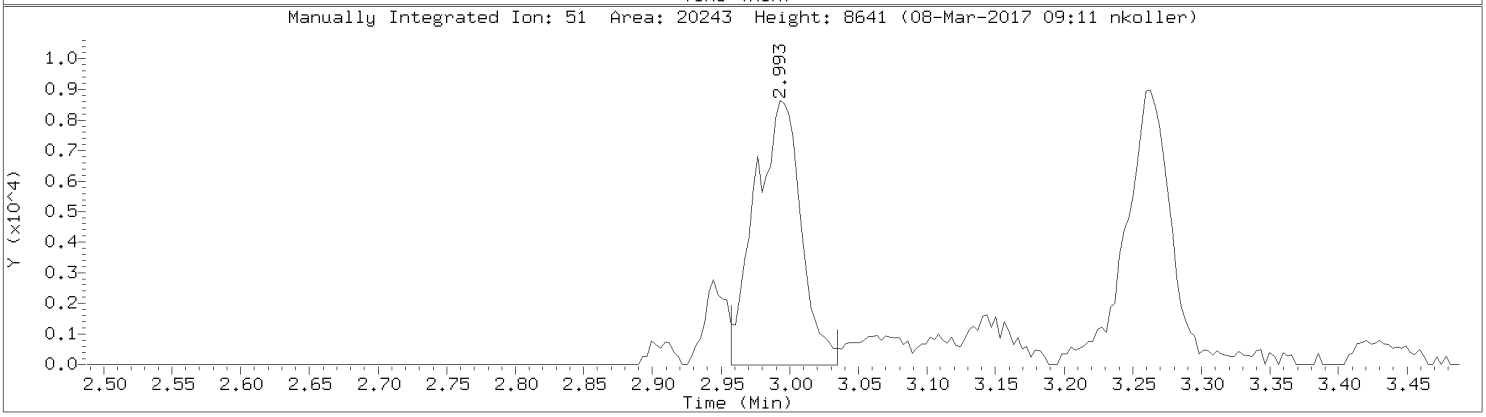
Data File: \\192.168.10.12\chem\10airB.i\030717.b/06622.D
Injection Date: 07-MAR-2017 18:33
Instrument: 10airB.i
Lab Sample ID: 10380193014

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

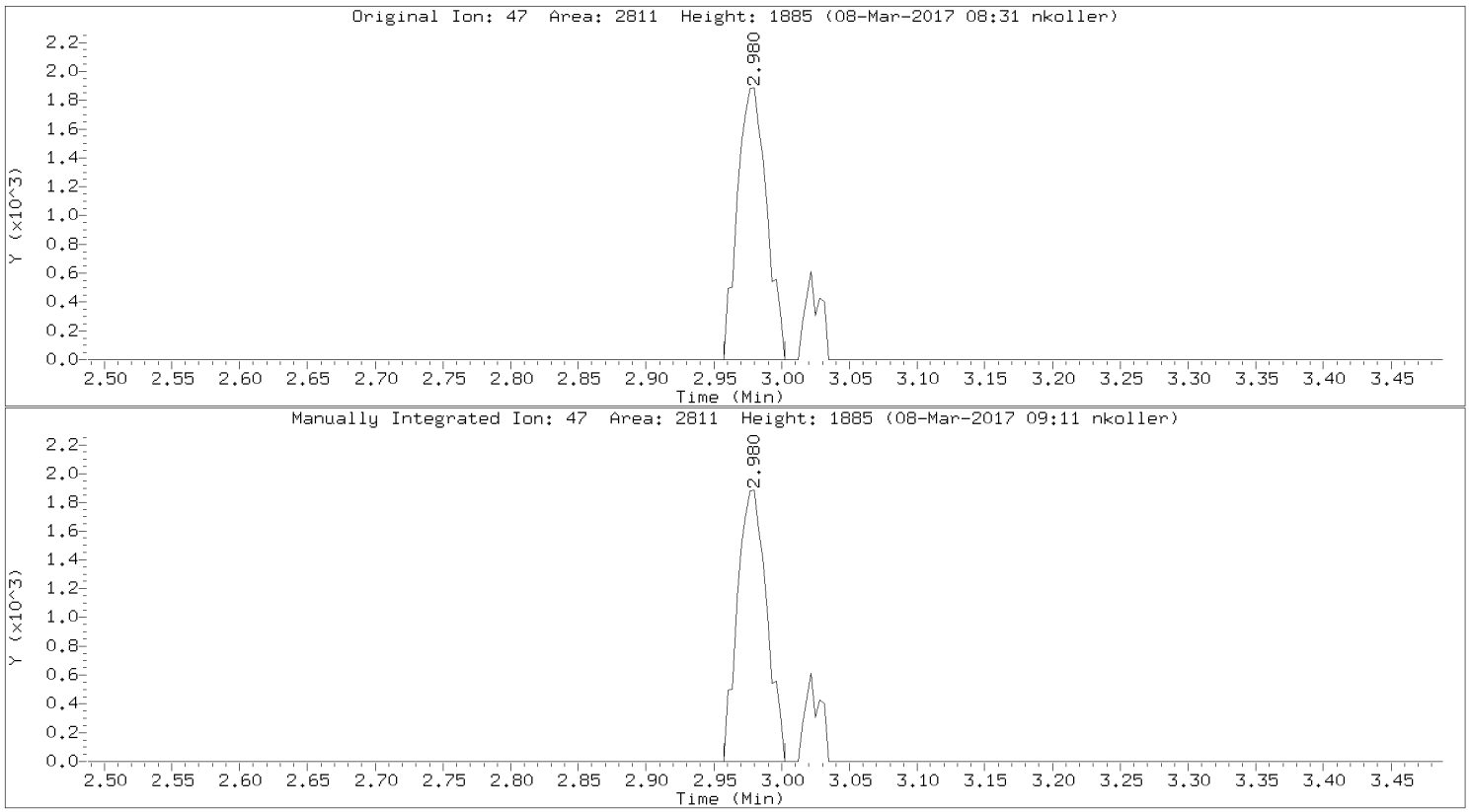








Data File: \\192.168.10.12\chem\10airB.i\030717.b/06622.D
Injection Date: 07-MAR-2017 18:33
Instrument: 10airB.i
Lab Sample ID: 10380193014



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

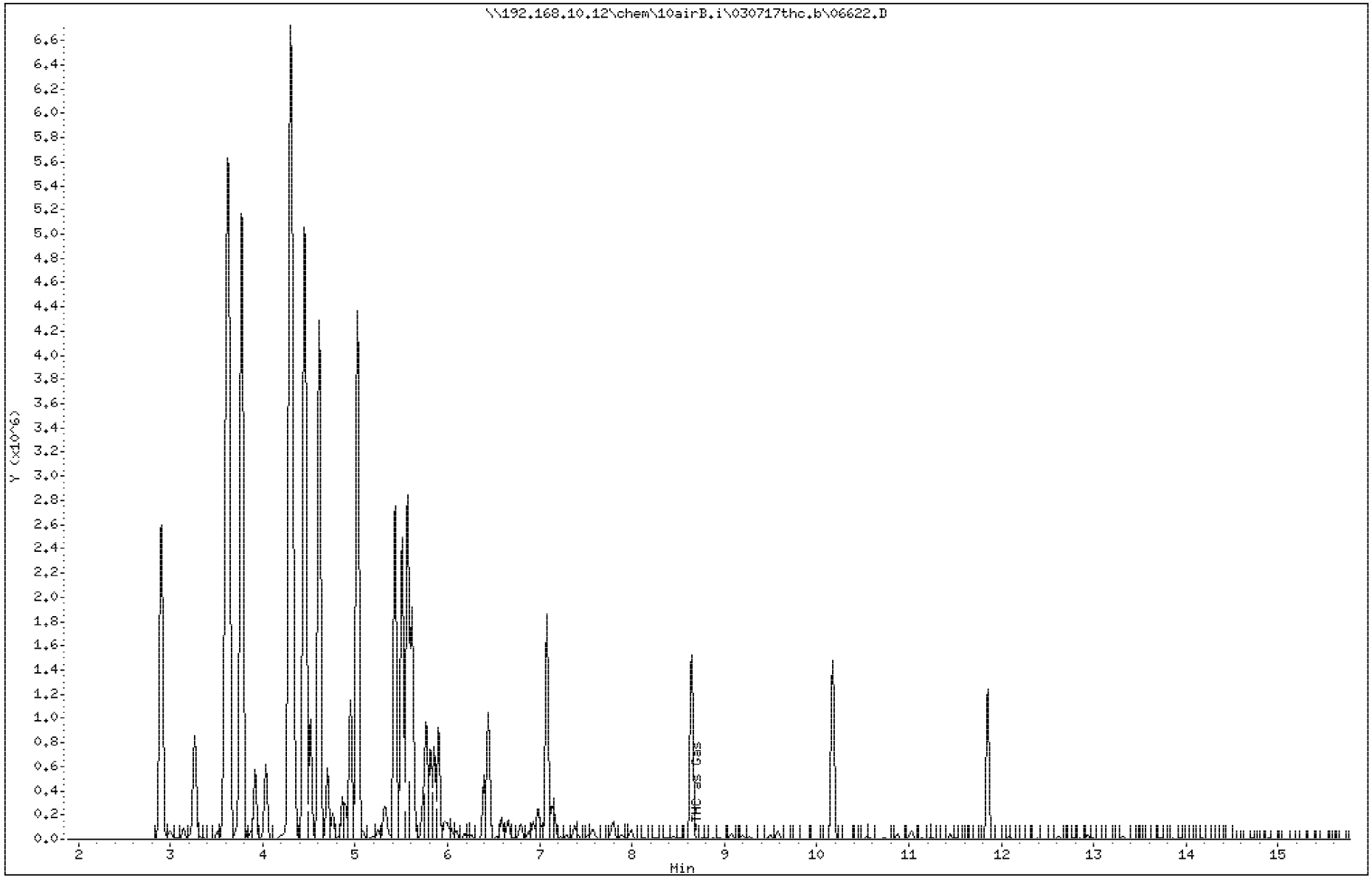
Data file : \\192.168.10.12\chem\10airB.i\030717thc.b\06622.D
Lab Smp Id: 10380193014
Inj Date : 07-MAR-2017 18:33
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27858
Comment :
Method : \\192.168.10.12\chem\10airB.i\030717thc.b\THC_061-17.m
Meth Date : 08-Mar-2017 09:29 nkoller Quant Type: ESTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 22
Dil Factor: 1.75000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * CpndVariable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
S 5 THC as Gas	2.900-14.500			130125039	1252.24	2191

Data File: \\192.168.10.12\chem\10airB.i\030717thc.b\06622.D
Date : 07-MAR-2017 18:33
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: DB-624
Column diameter: 0.32



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_10_20170223 **Lab ID: 10380193014** Collected: 02/23/17 12:49 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/07/17 18:33	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/07/17 18:33	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/07/17 18:33	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/07/17 18:33	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/07/17 18:33	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/07/17 18:33	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/07/17 18:33	123-91-1	
Ethylbenzene	**1.1J**	ug/m3	1.5	0.74	1.75		03/07/17 18:33	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.8	0.33	1.75		03/07/17 18:33	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/07/17 18:33	87-68-3	
n-Hexane	**293**	ug/m3	12.6	6.2	17.5		03/07/17 01:33	110-54-3	
n-Hexane	**554**	ug/m3	1.3	0.62	1.75		03/07/17 18:33	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/07/17 18:33	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/07/17 18:33	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/07/17 18:33	79-20-9	
Methylcyclohexane	**85.5**	ug/m3	1.4	0.42	1.75		03/07/17 18:33	108-87-2	
Methylene Chloride	**3.3J**	ug/m3	6.2	0.95	1.75		03/07/17 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/07/17 18:33	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/07/17 18:33	1634-04-4	
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/07/17 18:33	67-63-0	
Styrene	**0.82J**	ug/m3	1.5	0.34	1.75		03/07/17 18:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/07/17 18:33	79-34-5	
Tetrachloroethene	**8.9**	ug/m3	1.2	0.49	1.75		03/07/17 18:33	127-18-4	
Toluene	**14.8**	ug/m3	1.3	0.27	1.75		03/07/17 18:33	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/07/17 18:33	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/07/17 18:33	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/07/17 18:33	79-00-5	
Trichloroethene	**4.8**	ug/m3	0.96	0.48	1.75		03/07/17 18:33	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.0	0.23	1.75		03/07/17 18:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.53**	ug/m3	2.8	0.53	1.75		03/07/17 18:33	76-13-1	
1,2,4-Trimethylbenzene	**1.1J**	ug/m3	1.7	0.22	1.75		03/07/17 18:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/07/17 18:33	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/07/17 18:33	75-01-4	
m&p-Xylene	**5.1**	ug/m3	3.1	1.4	1.75		03/07/17 18:33	179601-23-1	
o-Xylene	**1.2J**	ug/m3	1.5	0.61	1.75		03/07/17 18:33	95-47-6	

Sample: VP-105_20_20170223 **Lab ID: 10380193015** Collected: 02/23/17 12:49 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**44.0**	ug/m3	4.4	1.5	1.83		03/07/17 19:37	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/07/17 19:37	107-05-1	
Benzene	**0.48J**	ug/m3	0.59	0.22	1.83		03/07/17 19:37	71-43-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_20_20170223 **Lab ID: 10380193015** Collected: 02/23/17 12:49 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/07/17 19:37	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/07/17 19:37	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/07/17 19:37	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/07/17 19:37	106-99-0	
2-Butanone (MEK)	**5.5J**	ug/m3	5.5	0.42	1.83		03/07/17 19:37	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/07/17 19:37	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/07/17 19:37	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/07/17 19:37	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/07/17 19:37	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/07/17 19:37	75-00-3	
Chloroform	**2.0**	ug/m3	0.91	0.35	1.83		03/07/17 19:37	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/07/17 19:37	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/07/17 19:37	76-15-3	
Cyclohexane	**0.66J**	ug/m3	1.3	0.58	1.83		03/07/17 19:37	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/07/17 19:37	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/07/17 19:37	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/07/17 19:37	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/07/17 19:37	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/07/17 19:37	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/07/17 19:37	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.8	0.88	1.83		03/07/17 19:37	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/07/17 19:37	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/07/17 19:37	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/07/17 19:37	75-35-4	
cis-1,2-Dichloroethene	**2.3**	ug/m3	1.5	0.45	1.83		03/07/17 19:37	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/07/17 19:37	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/07/17 19:37	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/07/17 19:37	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/07/17 19:37	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/07/17 19:37	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/07/17 19:37	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/07/17 19:37	123-91-1	
Ethylbenzene	**1.3J**	ug/m3	1.6	0.78	1.83		03/07/17 19:37	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.8	0.34	1.83		03/07/17 19:37	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/07/17 19:37	87-68-3	
n-Hexane	**2.0**	ug/m3	1.3	0.65	1.83		03/07/17 19:37	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/07/17 19:37	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/07/17 19:37	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/07/17 19:37	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/07/17 19:37	108-87-2	
Methylene Chloride	**5.7J**	ug/m3	6.5	0.99	1.83		03/07/17 19:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/07/17 19:37	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/07/17 19:37	1634-04-4	
2-Propanol	**3.1J**	ug/m3	4.6	0.44	1.83		03/07/17 19:37	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/07/17 19:37	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/07/17 19:37	79-34-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D
Report Date: 08-Mar-2017 09:15

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030717.b\06624.D
Lab Smp Id: 10380193015
Inj Date : 07-MAR-2017 19:37
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27858
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Meth Date : 08-Mar-2017 09:09 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 24
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.015	2.986	(0.538)	13513	1.75567	3.21(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.063	3.028	(0.547)	11480	0.23092	0.423	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.539	(0.633)	11365	2.35598	4.31	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.584	3.584	(0.640)	7329	0.42428	0.776	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.661	3.661	(0.653)	4172	0.11591	0.212	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.712	3.713	(0.663)	207527	9.96277	18.2	
19	Isopropyl Alcohol	45	3.777	3.761	(0.674)	14188	0.66786	1.22	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.941	3.938	(0.703)	6014	0.22127	0.405	
23	Methyl Acetate	43	3.947	3.954	(0.704)	6089	0.19200	0.351(Q)	
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D
Report Date: 08-Mar-2017 09:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	3.999	3.999	(0.714)	12981	0.88293	1.62	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.439	4.385	(0.792)	6450	0.36550	0.669	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.481	(0.800)	357234	8.55272	8.55	
	33 Methyl Ethyl Ketone	72	4.555	4.552	(0.813)	5756	0.99352	1.82(Q)	
	34 n-Hexane	57	4.581	4.578	(0.818)	6450	0.30810	0.564(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.719	4.716	(0.842)	34967	1.29778	2.37(Q)	
	37 cis-1,2-Dichloroethene	96	4.709	4.722	(0.840)	4057	0.30917	0.566(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.819	4.838	(0.860)	6018	0.22127	0.405	
	40 Tetrahydrofuran	42	5.015	4.989	(0.895)	1620	0.11143	0.204(Q)	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.449	5.465	(0.972)	3452	0.08153	0.149	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.478	5.487	(0.978)	2200	0.10380	0.190(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.603	5.610	(1.000)	1312841	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.979	5.986	(1.067)	375758	17.0349	31.2	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.072	7.076	(1.262)	1104808	9.40239	9.40	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.146	7.150	(1.275)	60062	1.13274	2.07	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.571	7.584	(0.876)	6701	0.23174	0.424(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.982	7.986	(0.924)	240090	8.17892	15.0	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	845371	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.934	(1.033)	9760	0.15697	0.287	
	70 m&p-Xylene	91	9.076	9.082	(1.050)	33087	0.67798	1.24	
	71 n-Nonane	43	9.471	9.471	(1.096)	5500	0.21850	0.400	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.574	9.581	(1.108)	8355	0.16828	0.308	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	10.895	10.912	(1.261)	3520	0.14698	0.269(M)	
	79 1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D
Report Date: 08-Mar-2017 09:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	80 n-Decane	57	11.371	11.378	(2.029)	3074	0.32649	0.597	
	81 Tert-Butyl Benzene	119	Compound Not Detected.						(D)
	82 1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	8345	0.16618	0.304	
	83 1,3-Dichlorobenzene	146	Compound Not Detected.						
	84 Sec- Butylbenzene	105	Compound Not Detected.						
$	85 1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	495975	10.6504	10.7	
	86 Benzyl Chloride	91	Compound Not Detected.						(D)
	87 1,4-Dichlorobenzene	146	Compound Not Detected.						
	88 p-Isopropyltoluene	119	Compound Not Detected.						(D)
	89 1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
	90 1,2-Dichlorobenzene	146	Compound Not Detected.						
	91 N-Butylbenzene	91	Compound Not Detected.						(D)
	92 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	94 Naphthalene	128	14.172	14.169	(1.640)	5803	0.50489	0.924	
	95 Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D
Report Date: 08-Mar-2017 09:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06624.D
Lab Smp Id: 10380193015
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Misc Info: 27858

Calibration Date: 07-MAR-2017
Calibration Time: 08:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

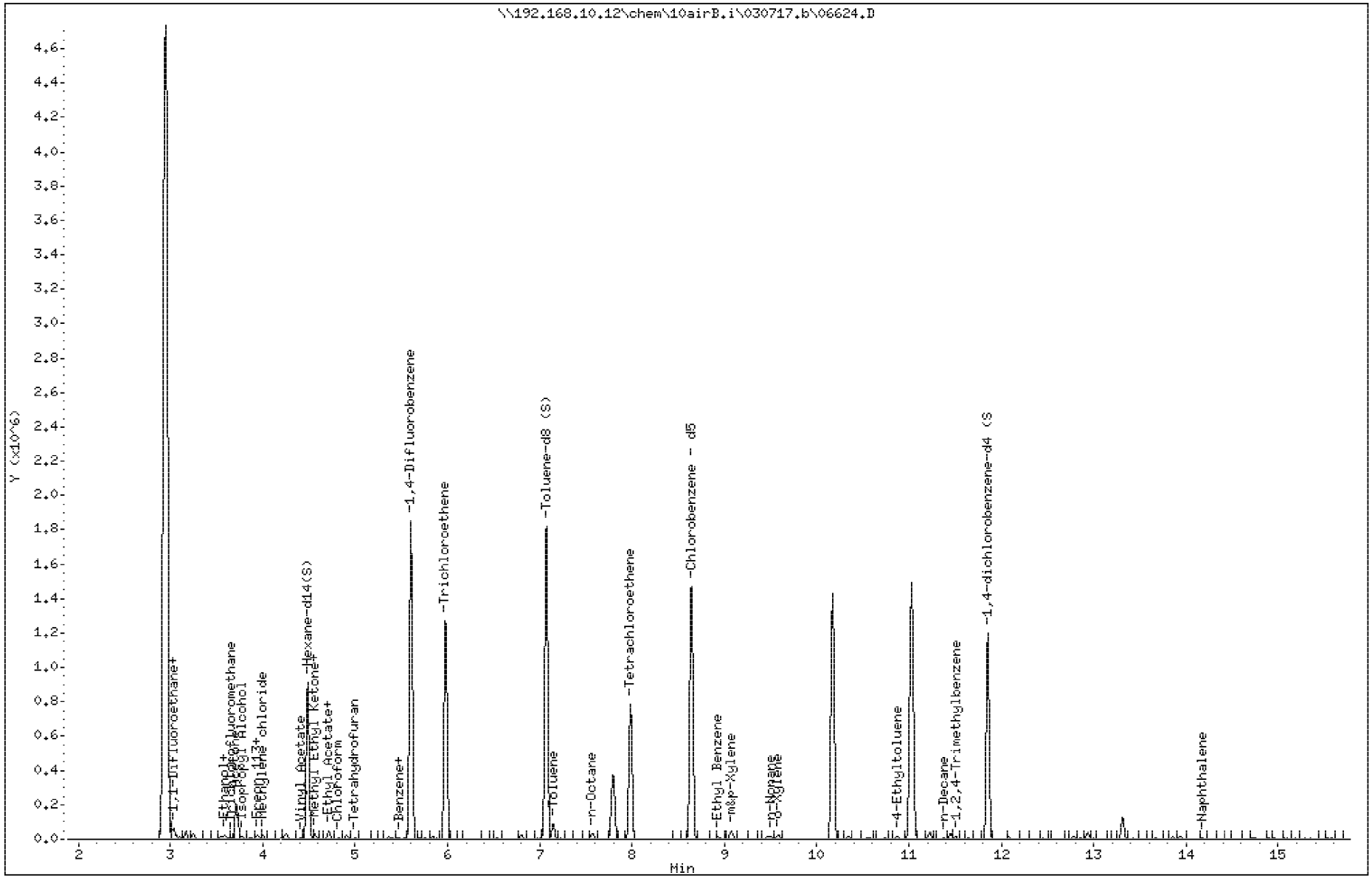
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1312841	-7.16
67 Chlorobenzene - d	951026	570616	1331436	845371	-11.11

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.12
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D
Date : 07-MAR-2017 19:37
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

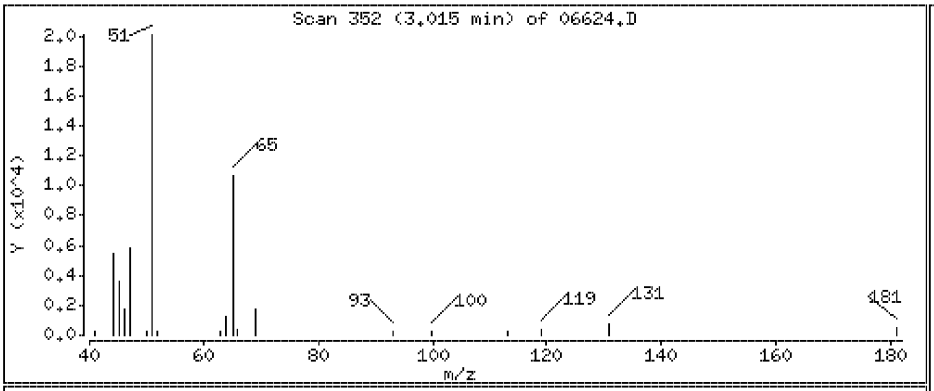
Operator: NCK

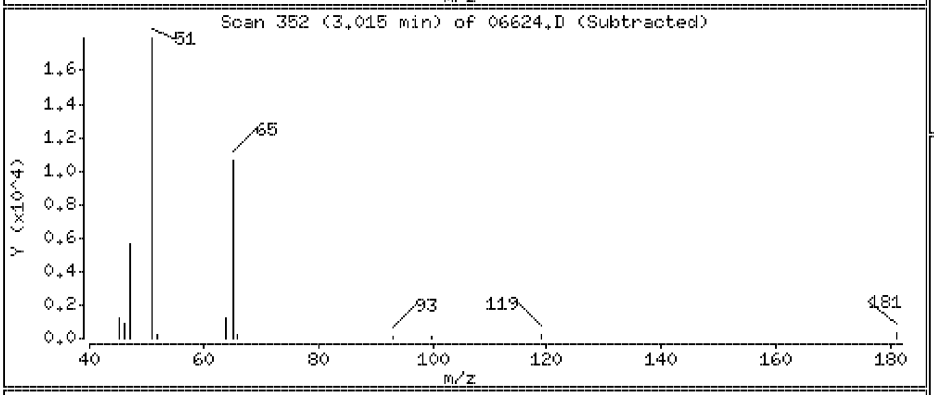
Column phase: J&W DB-5

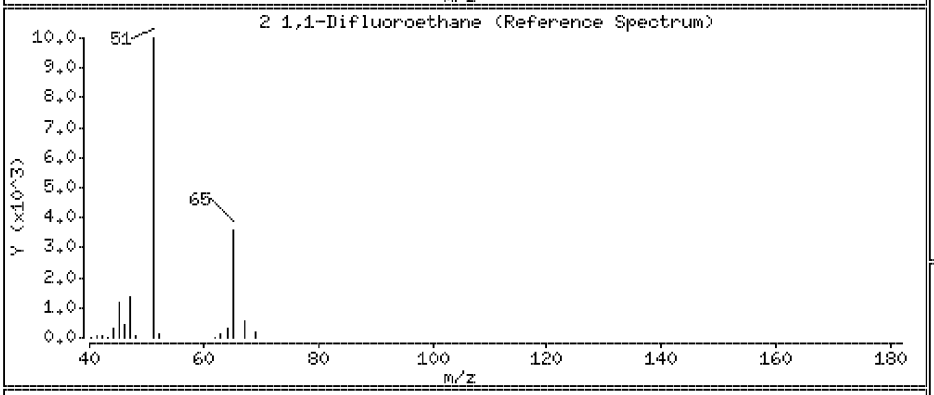
Column diameter: 0.32

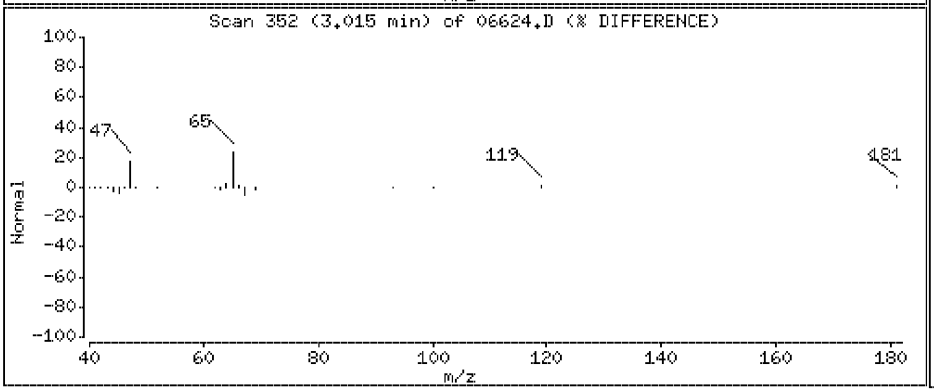
2 1,1-Difluoroethane

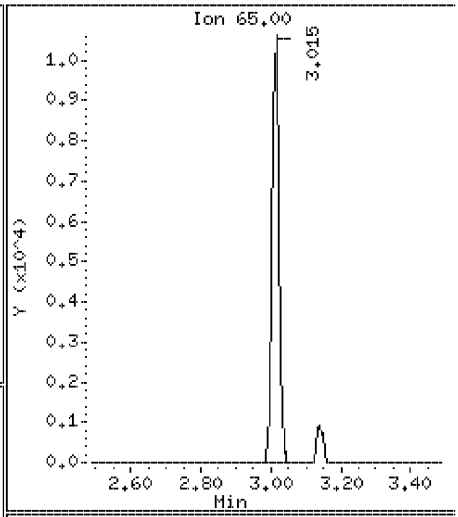
Concentration: 3.21 ppbv

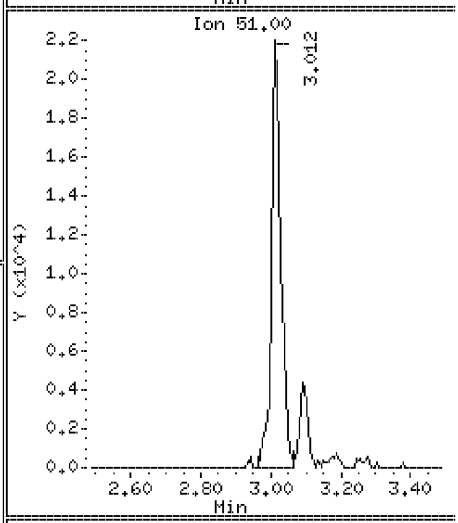


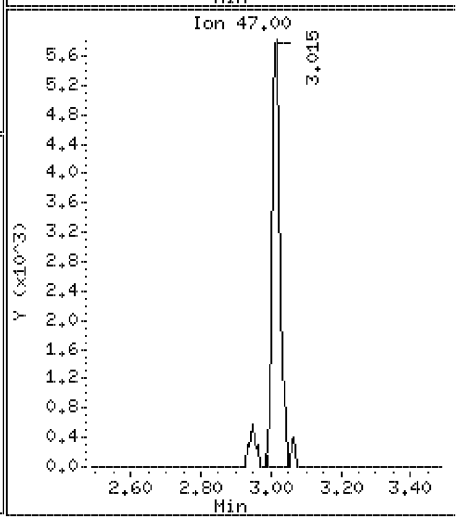












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

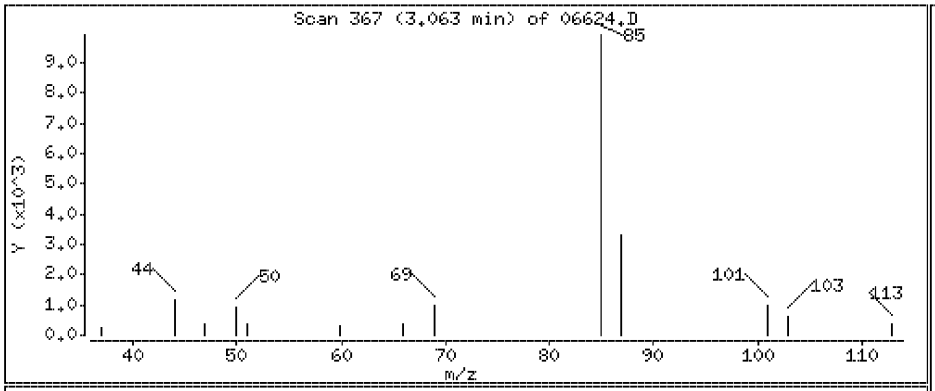
Operator: NCK

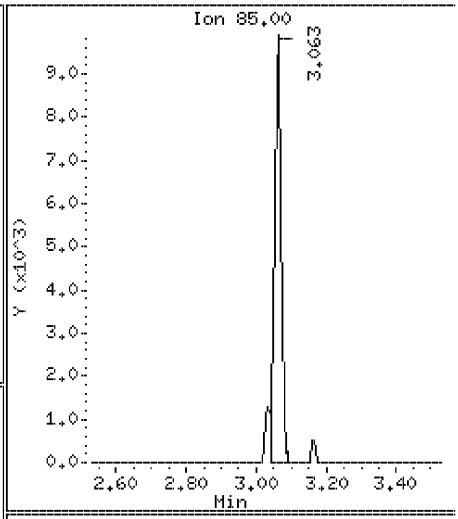
Column phase: J&W DB-5

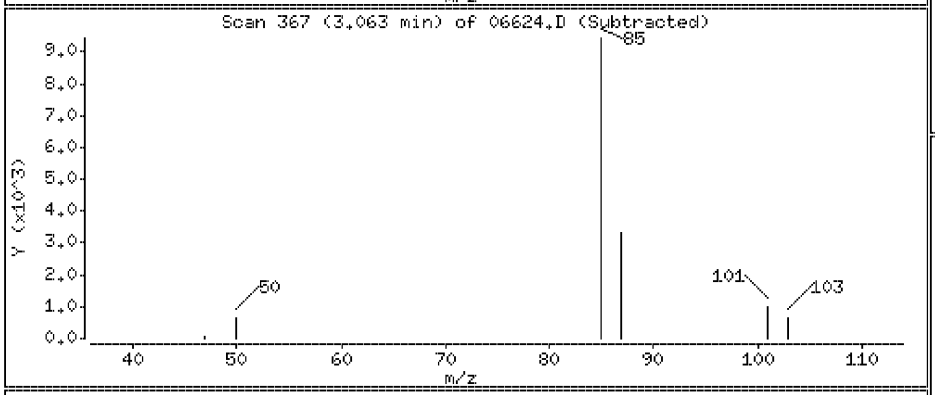
Column diameter: 0.32

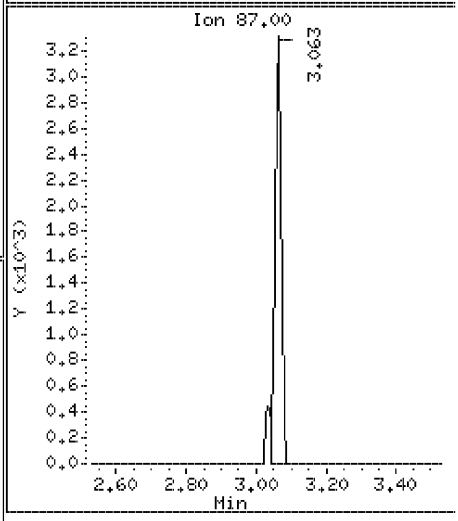
5 Dichlorodifluoromethane

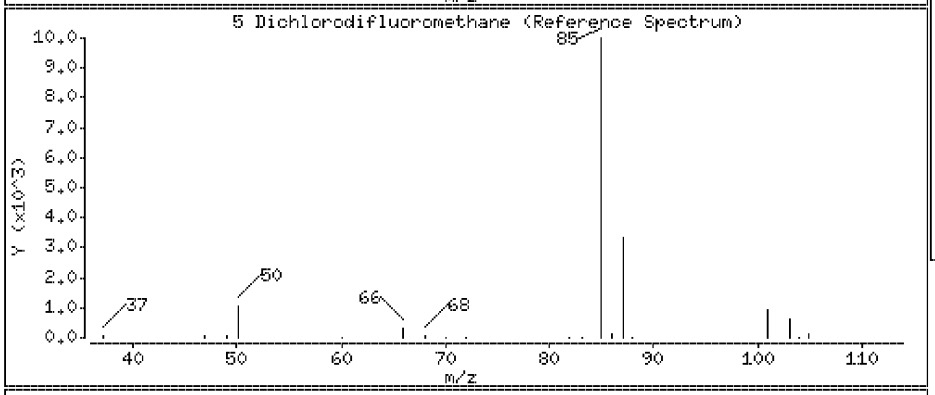
Concentration: 0.423 ppbv

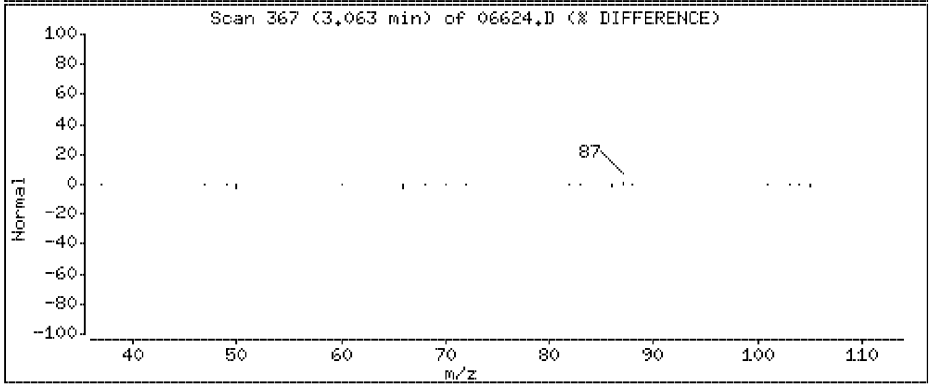












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

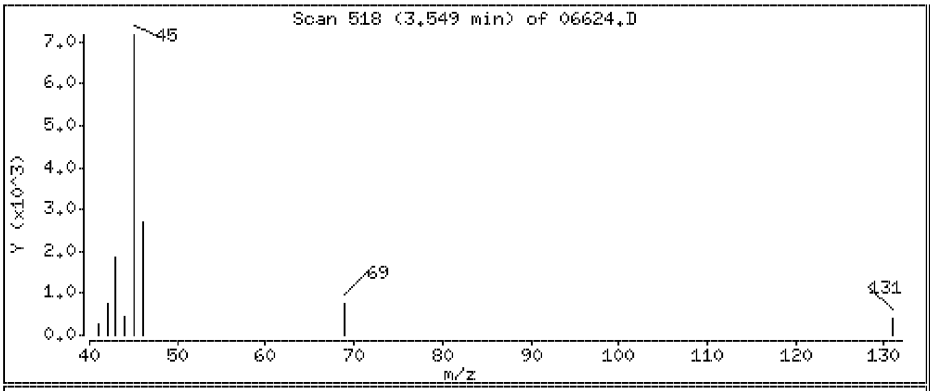
Operator: NCK

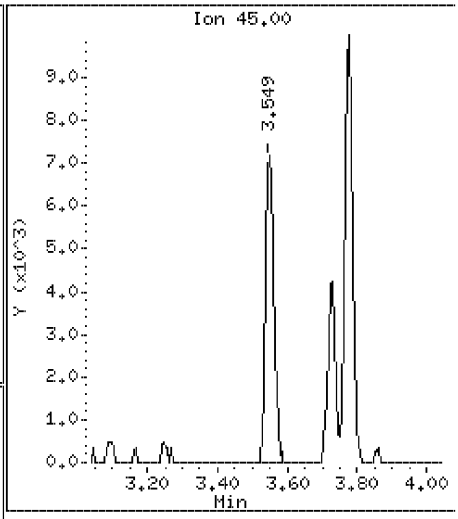
Column phase: J&W DB-5

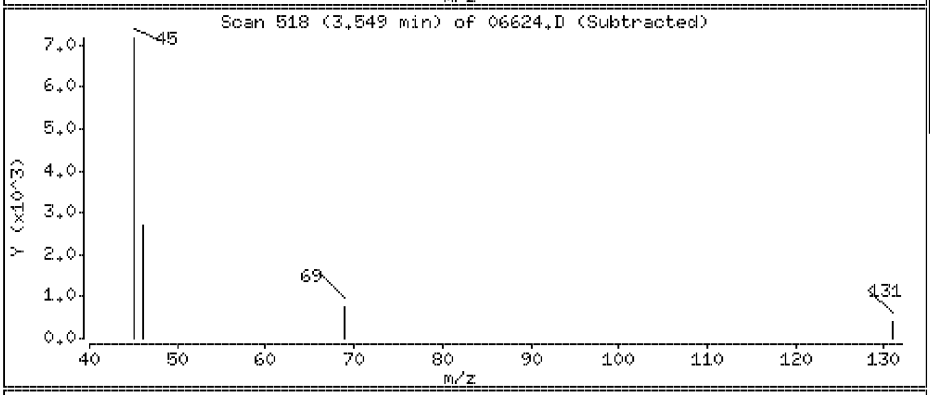
Column diameter: 0.32

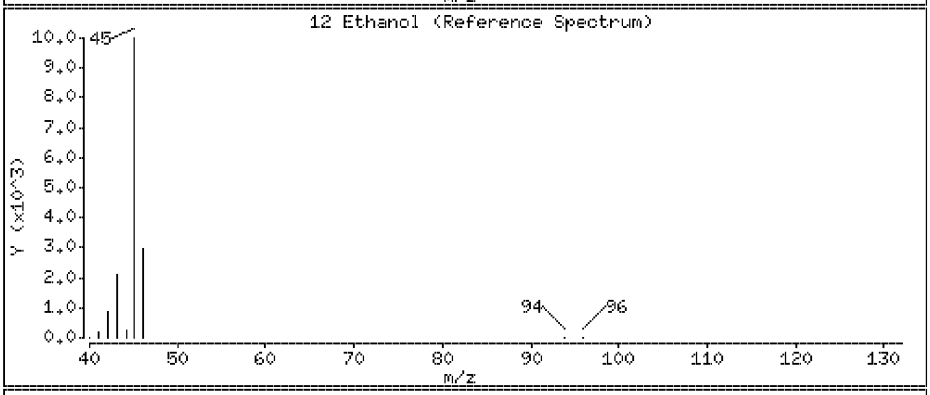
12 Ethanol

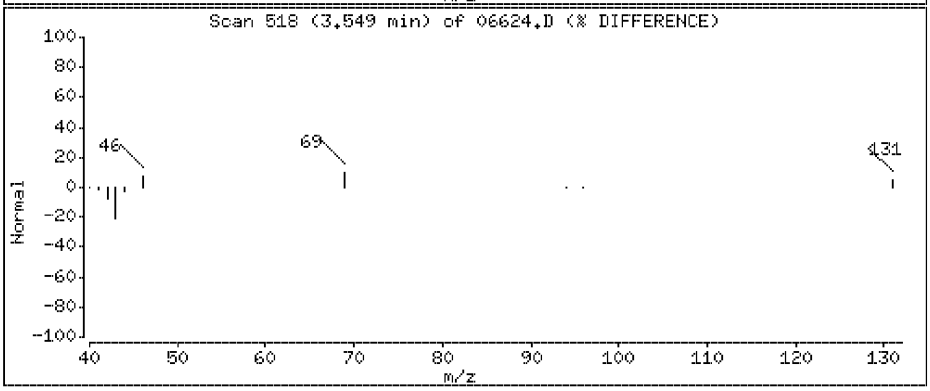
Concentration: 4.31 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

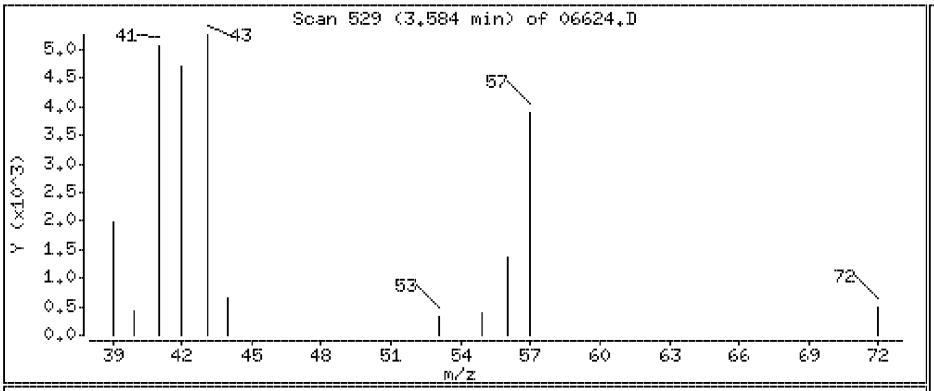
Operator: NCK

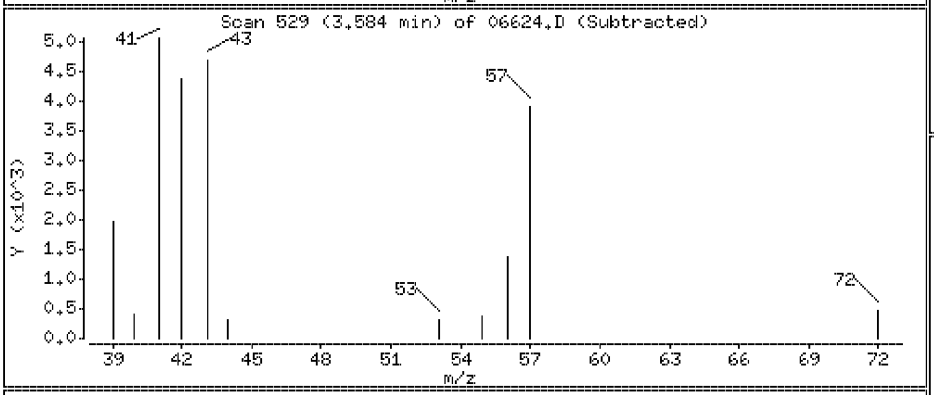
Column phase: J&W DB-5

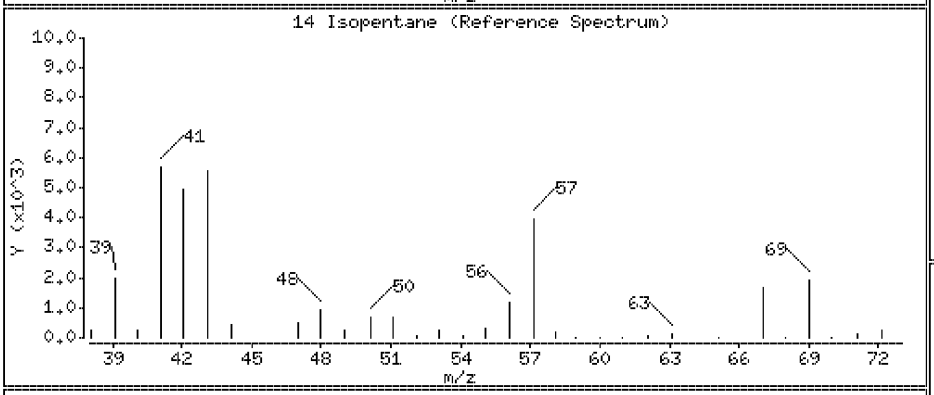
Column diameter: 0.32

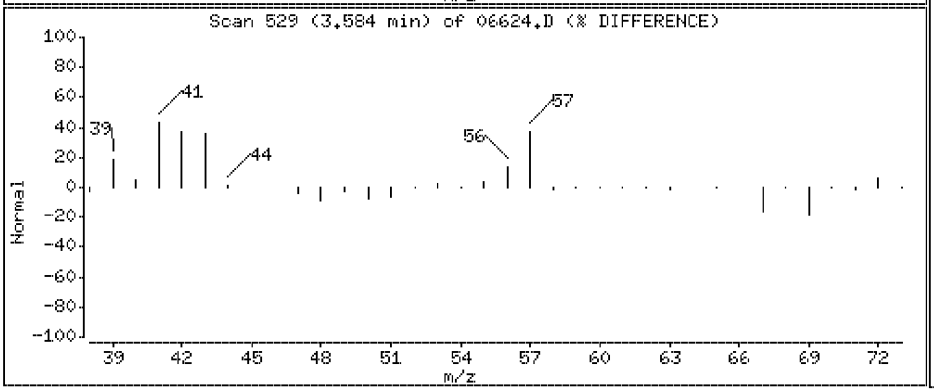
14 Isopentane

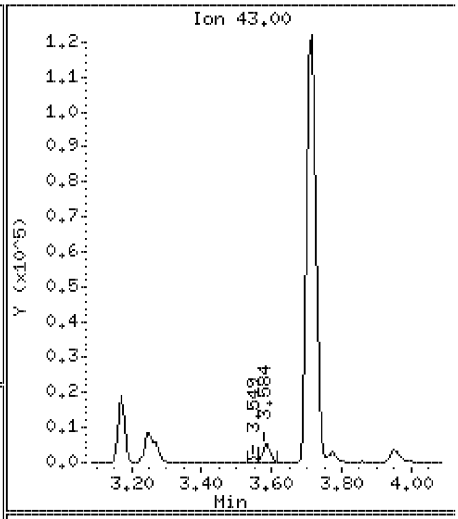
Concentration: 0.776 ppbv

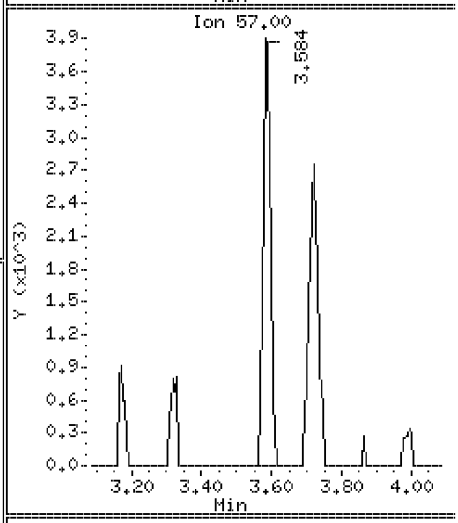


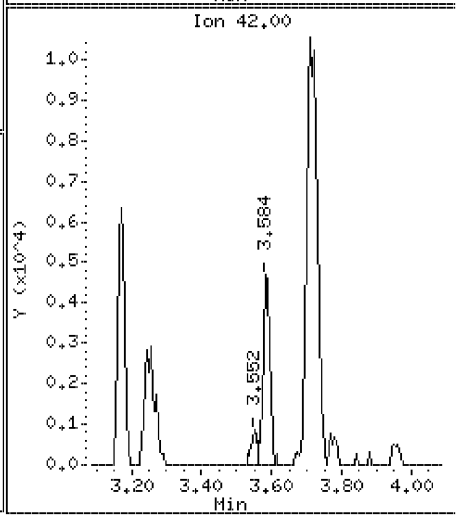












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

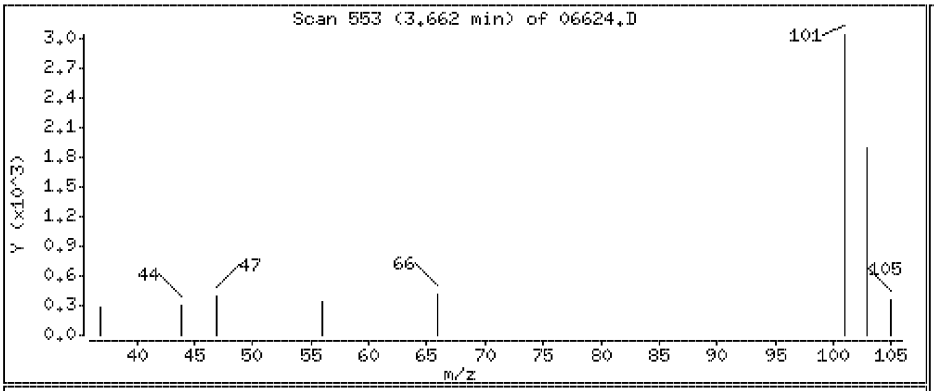
Operator: NCK

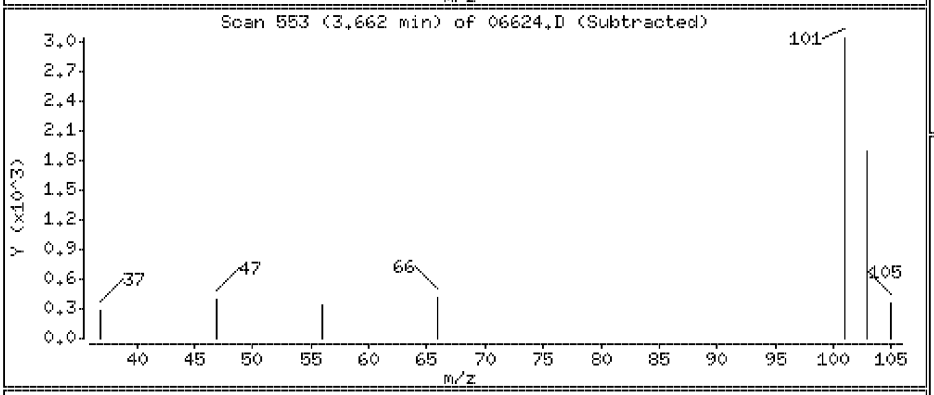
Column phase: J&W DB-5

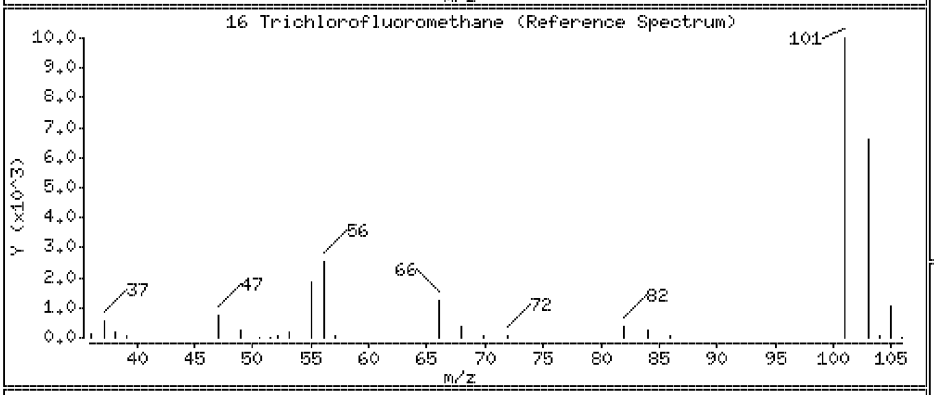
Column diameter: 0.32

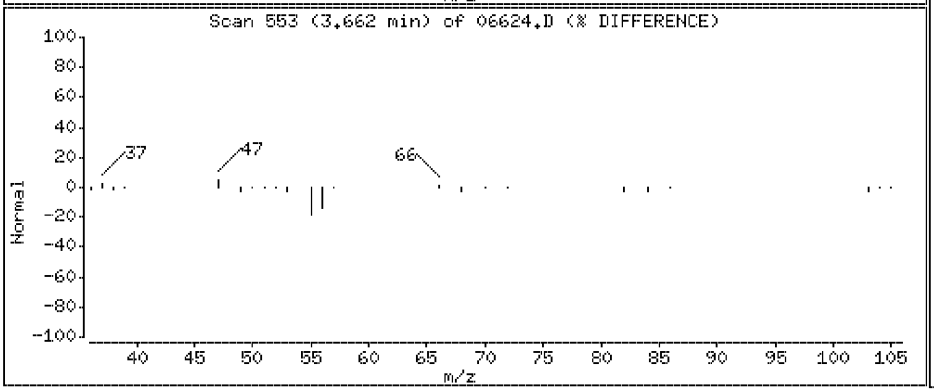
16 Trichlorofluoromethane

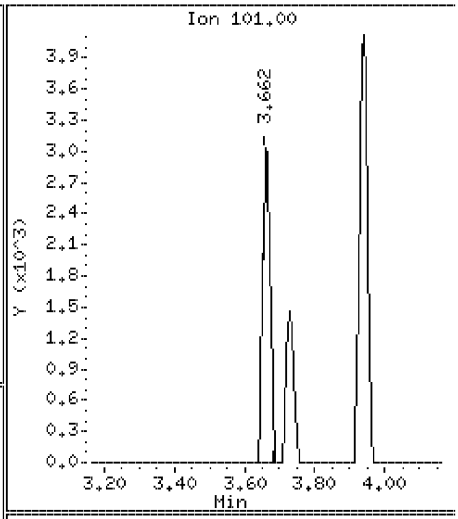
Concentration: 0.212 ppbv

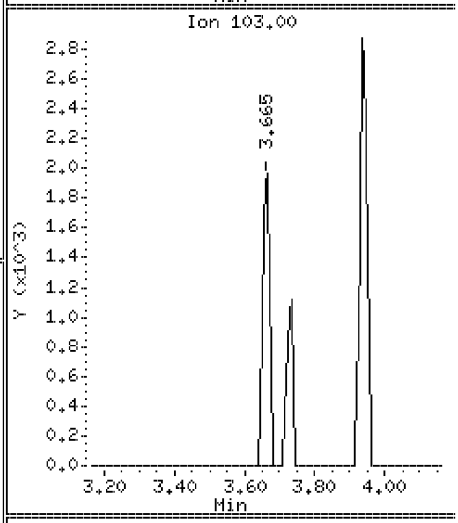


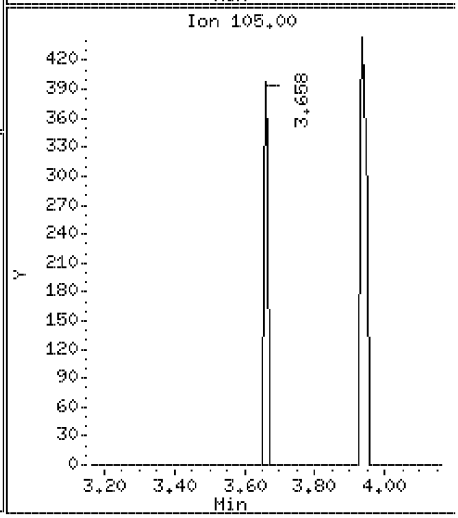












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

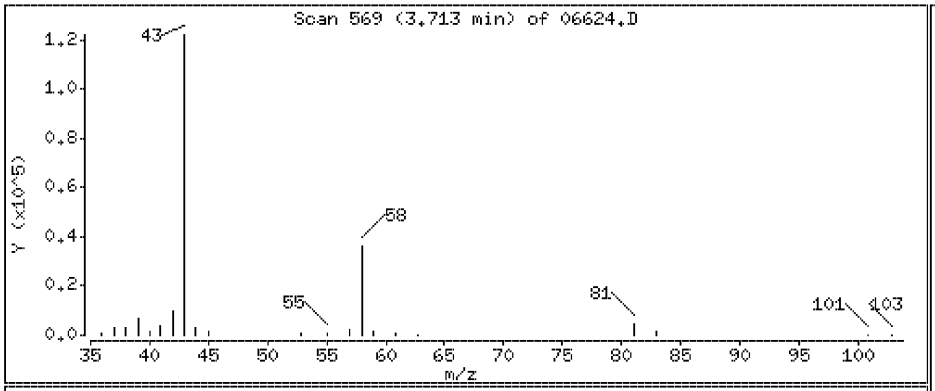
Operator: NCK

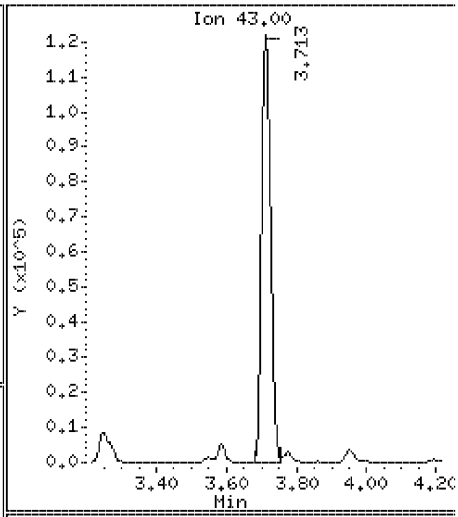
Column phase: J&W DB-5

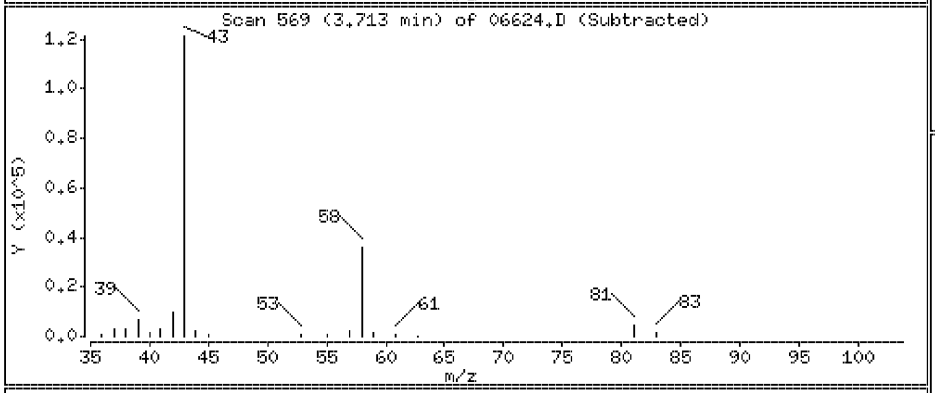
Column diameter: 0.32

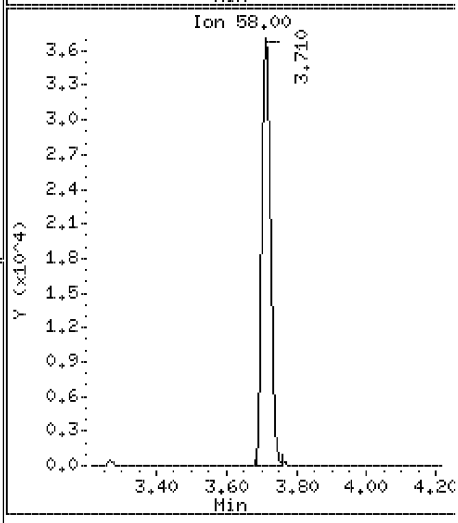
18 Acetone

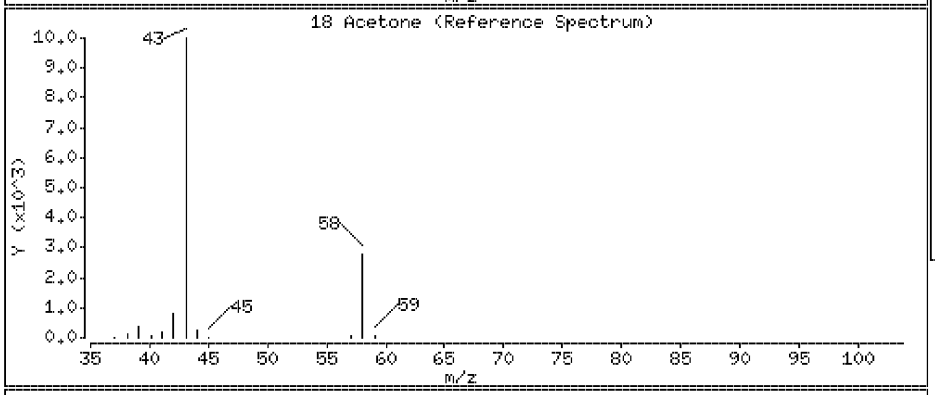
Concentration: 18.2 ppbv

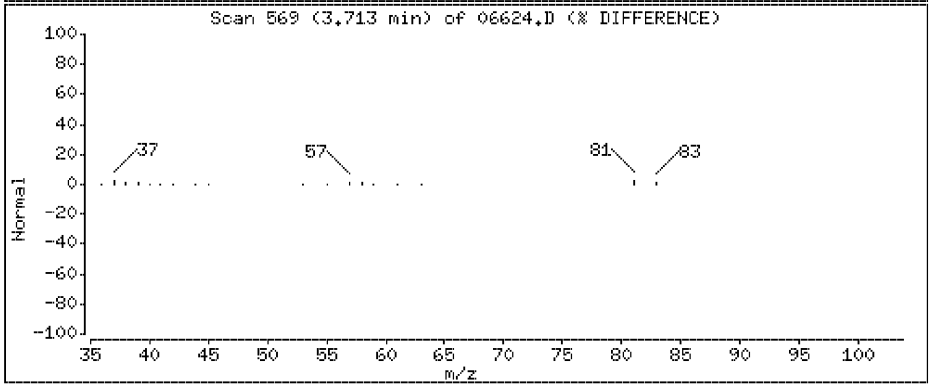












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

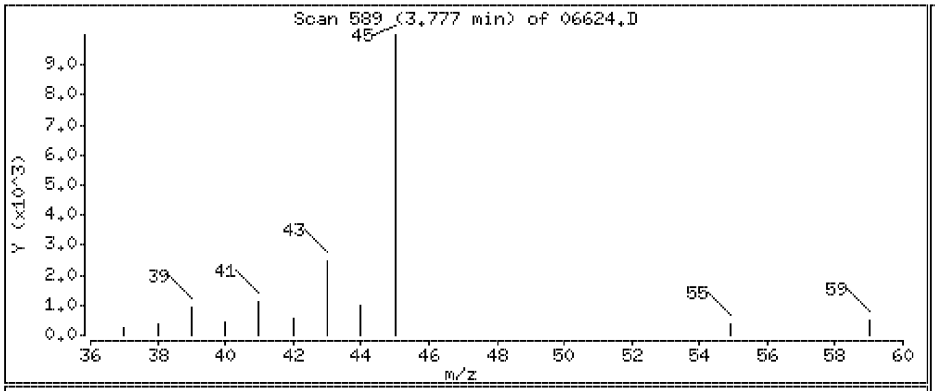
Operator: NCK

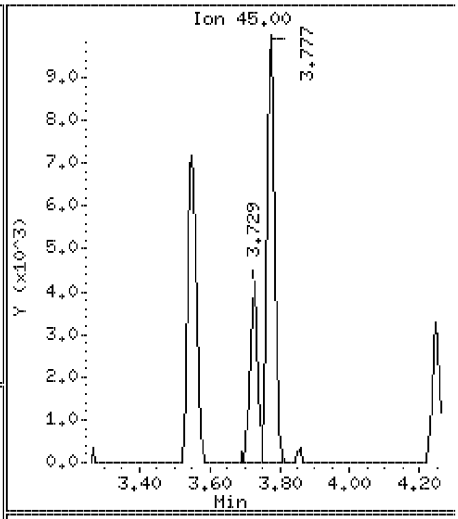
Column phase: J&W DB-5

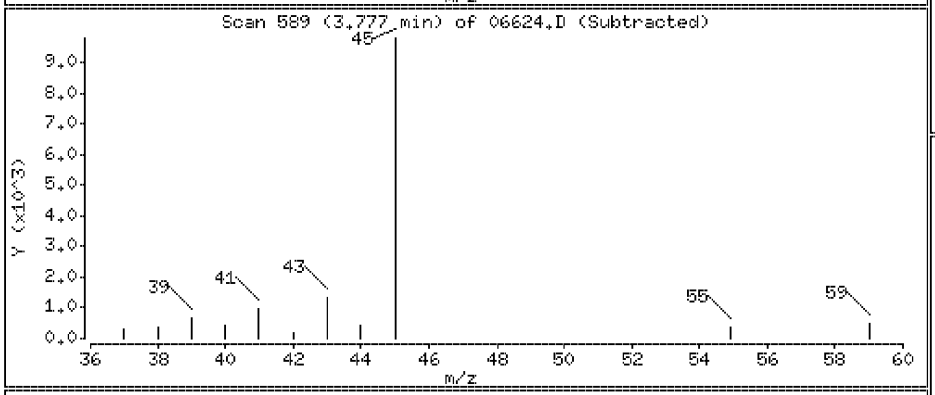
Column diameter: 0.32

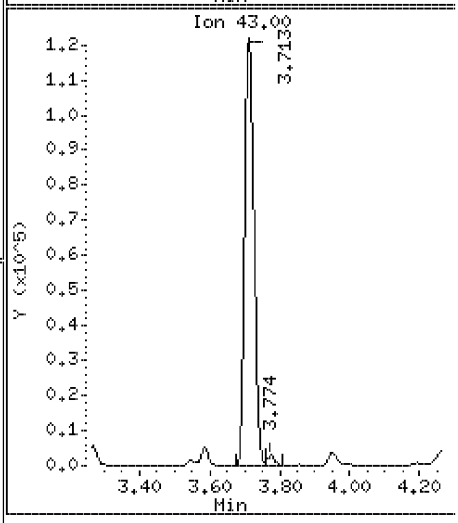
19 Isopropyl Alcohol

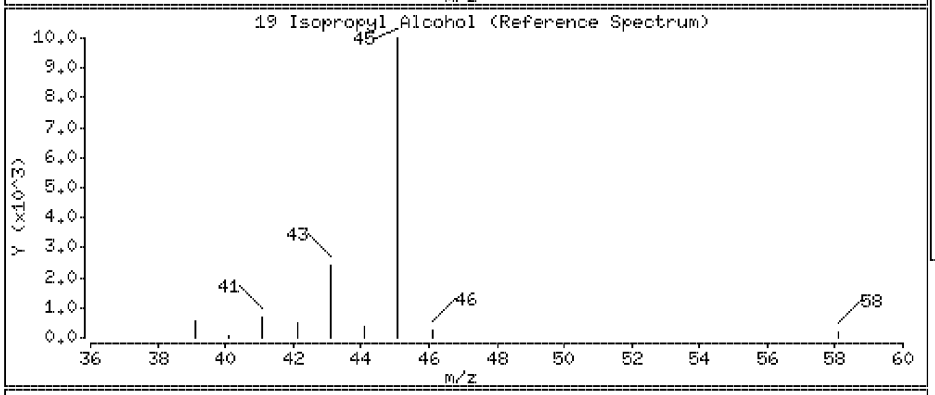
Concentration: 1.22 ppbv

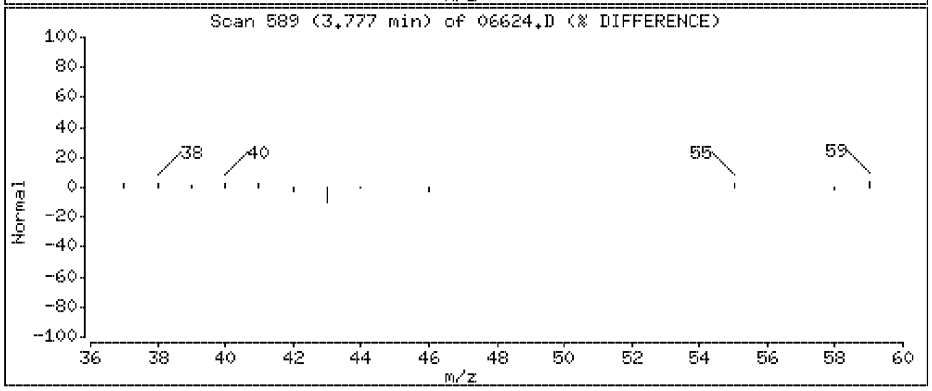












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

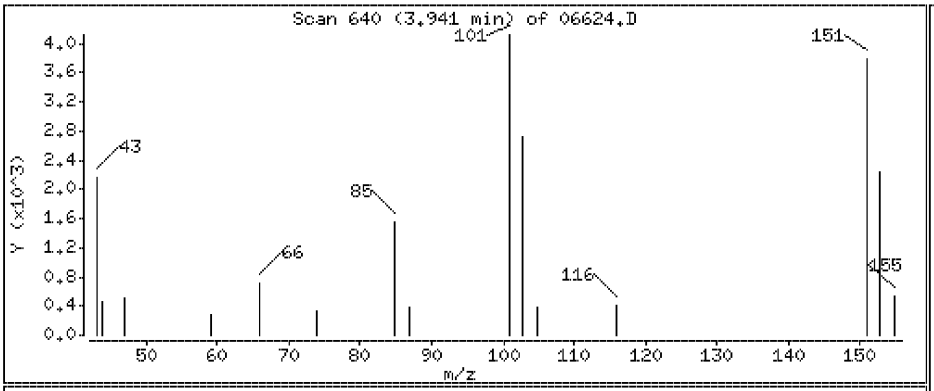
Operator: NCK

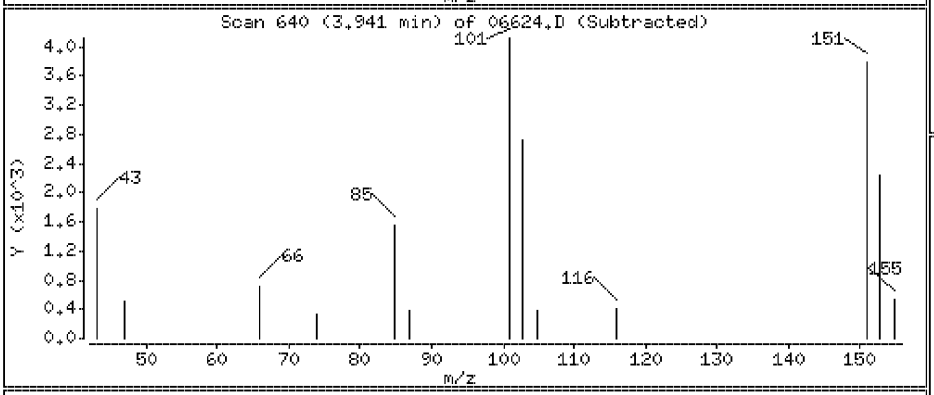
Column phase: J&W DB-5

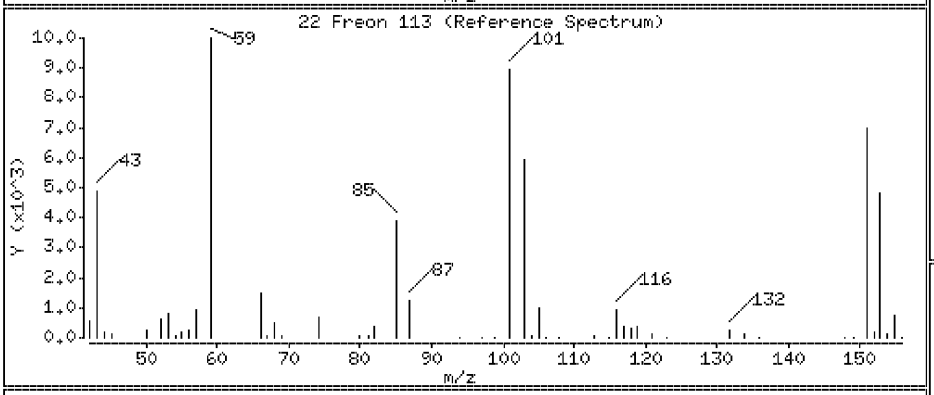
Column diameter: 0.32

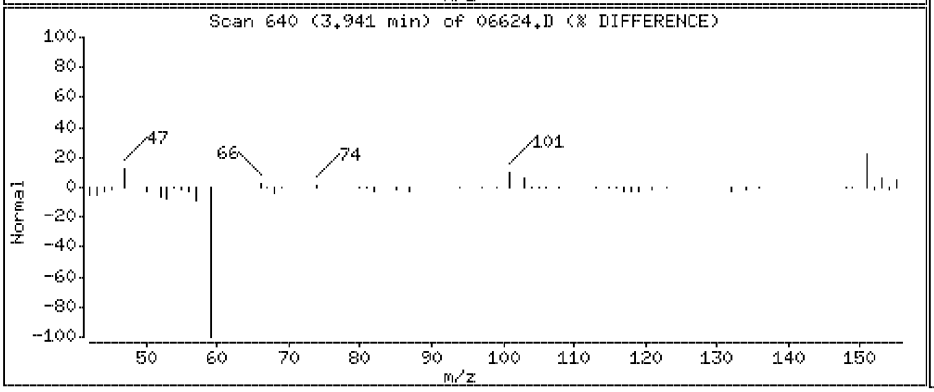
22 Freon 113

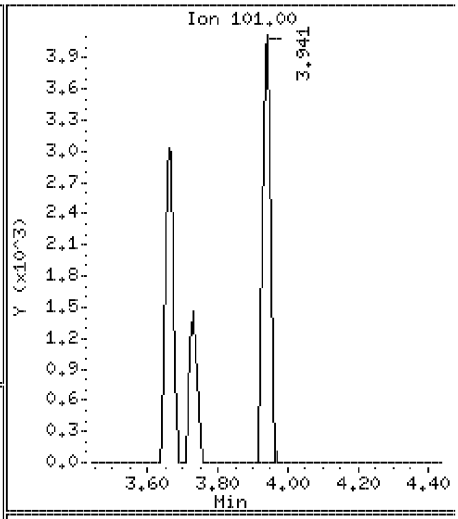
Concentration: 0.405 ppbv

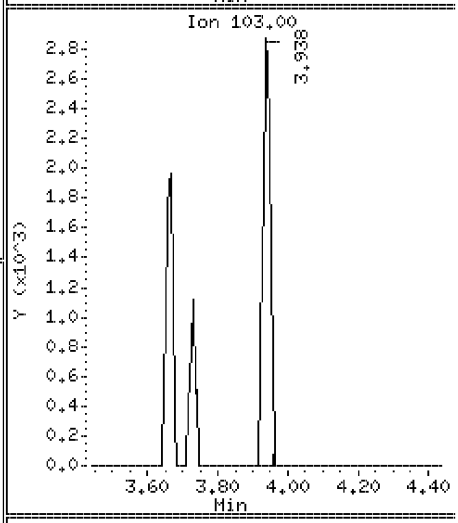


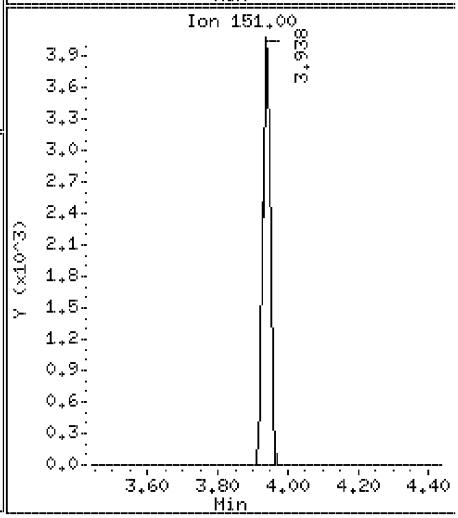












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

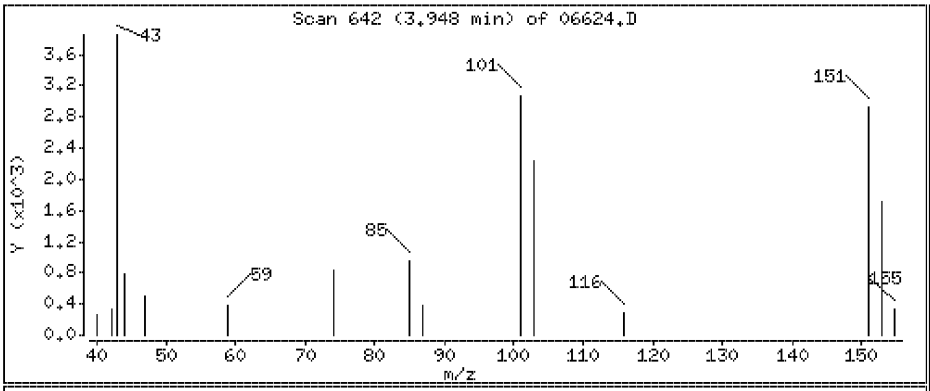
Operator: NCK

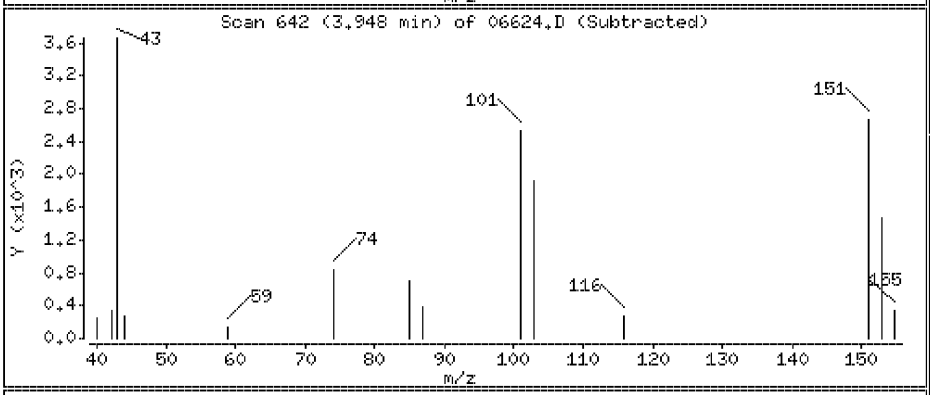
Column phase: J&W DB-5

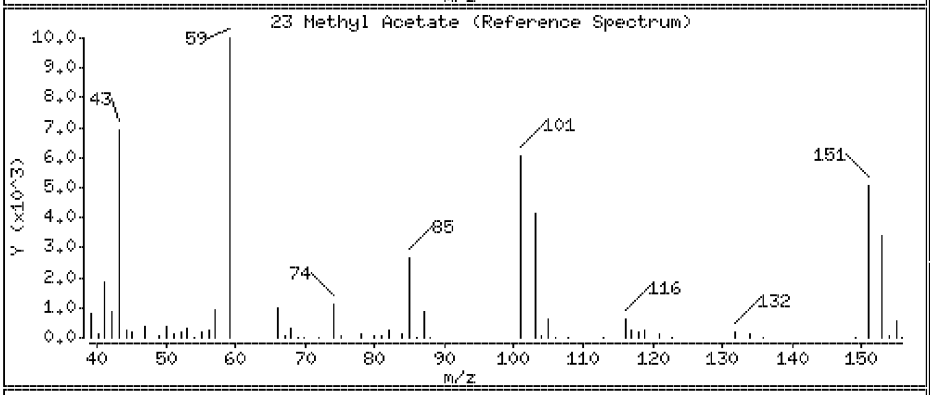
Column diameter: 0.32

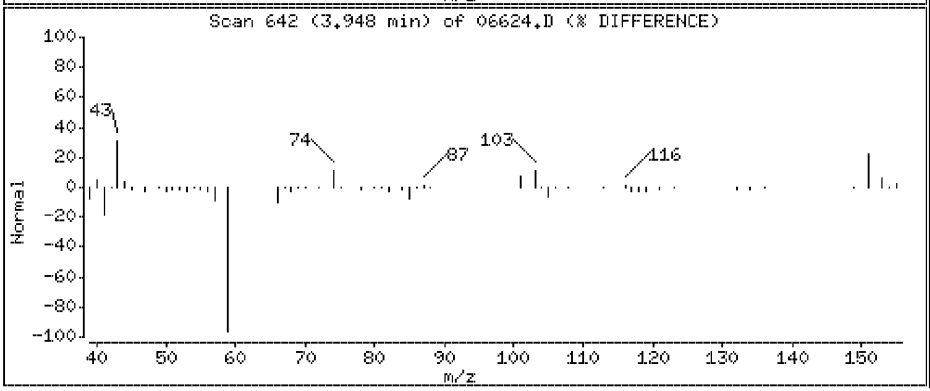
23 Methyl Acetate

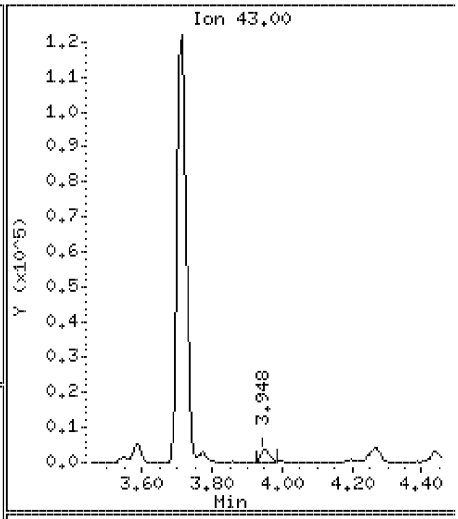
Concentration: 0.351 ppbv

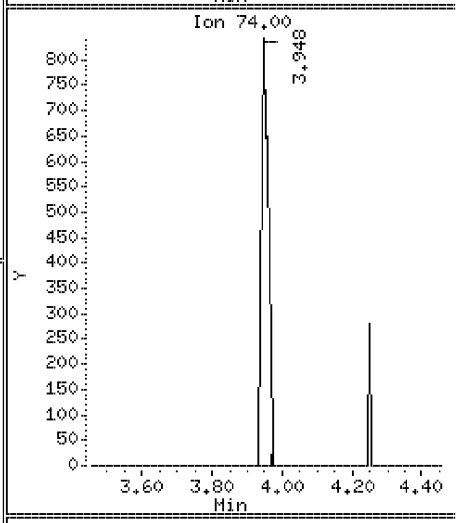


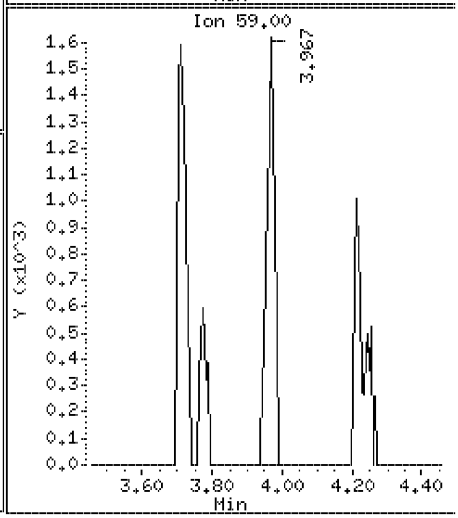












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

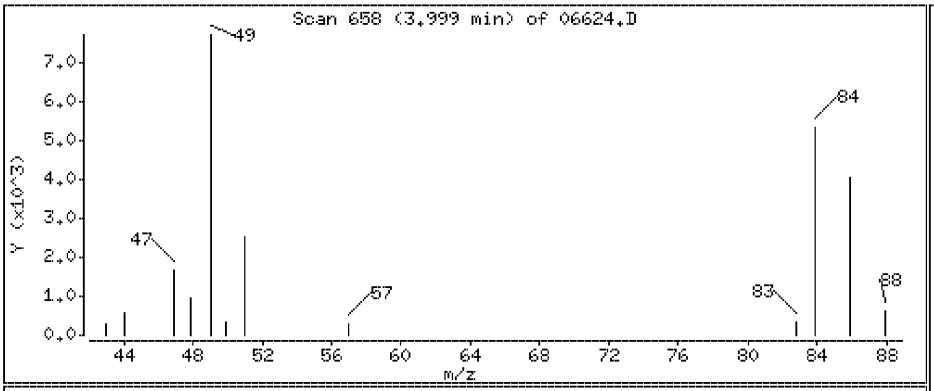
Operator: NCK

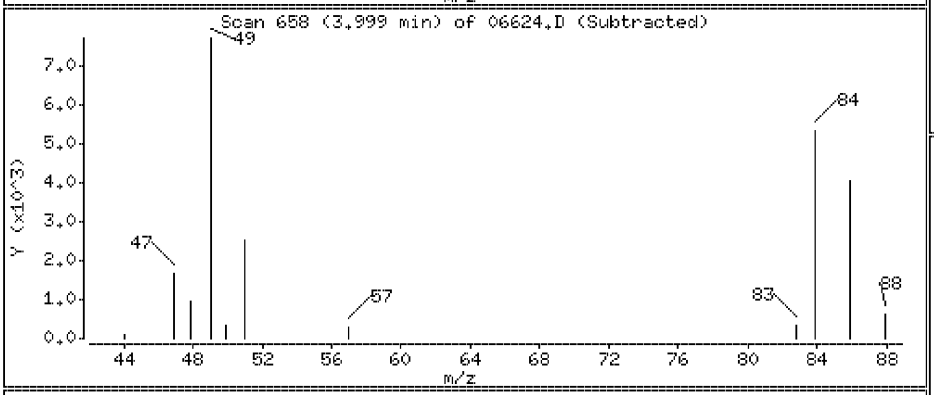
Column phase: J&W DB-5

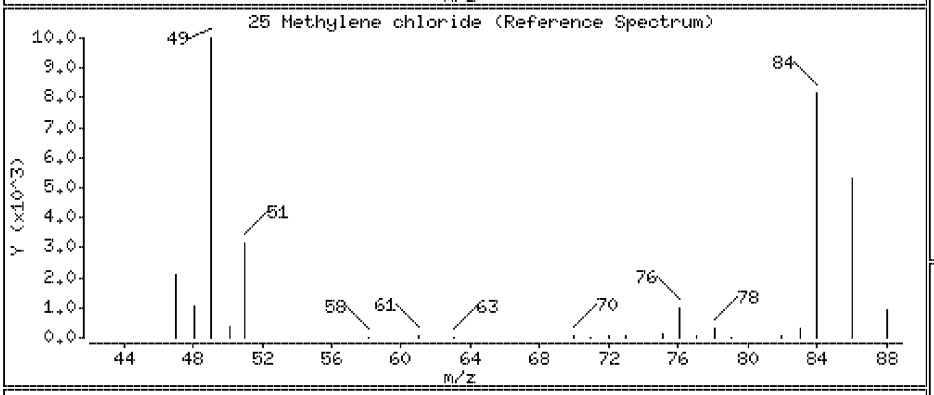
Column diameter: 0.32

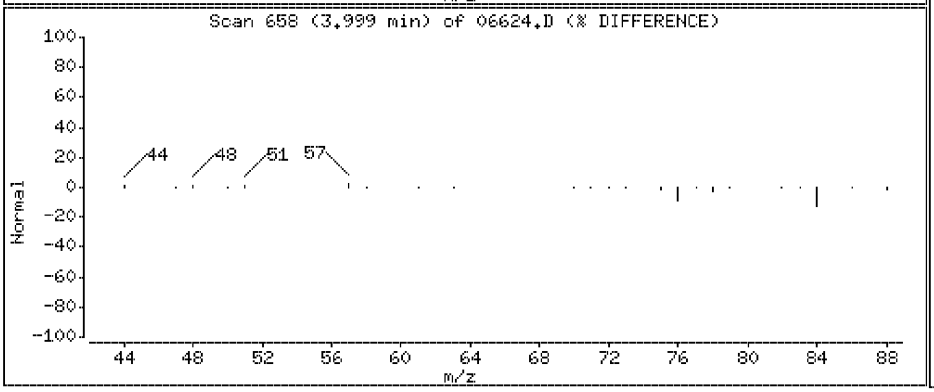
25 Methylene chloride

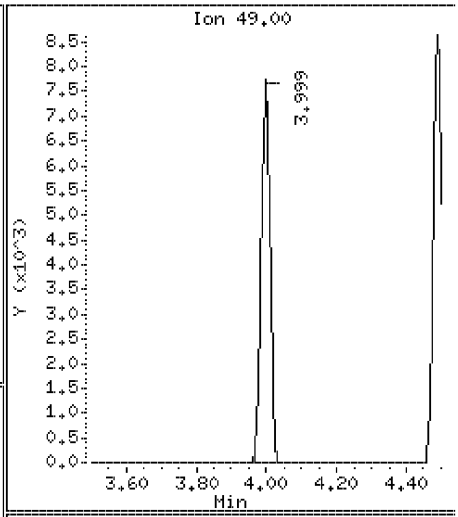
Concentration: 1.62 ppbv

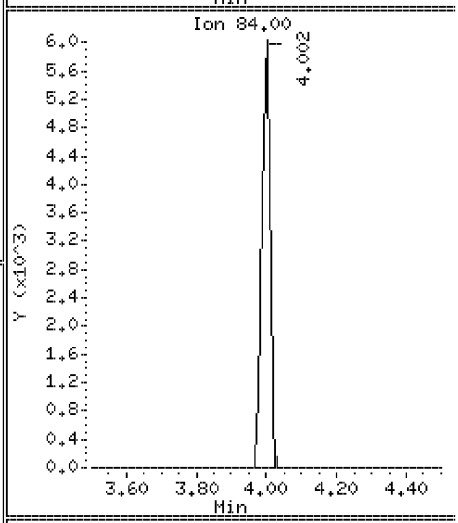


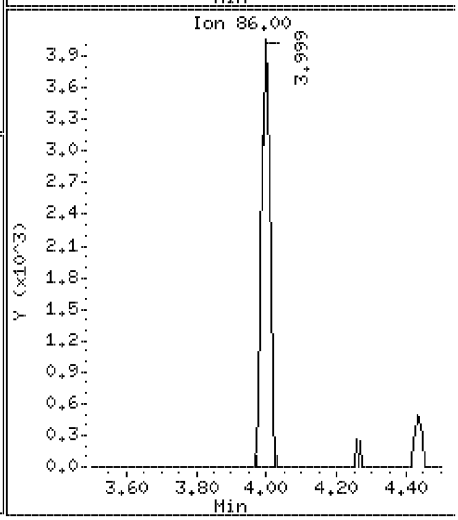












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

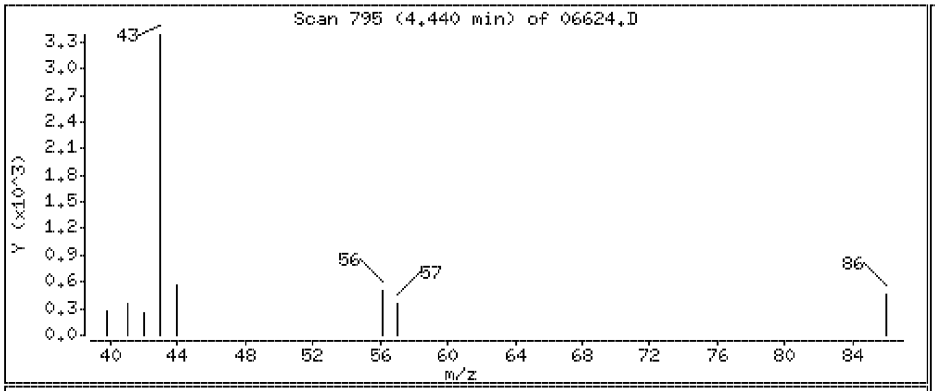
Operator: NCK

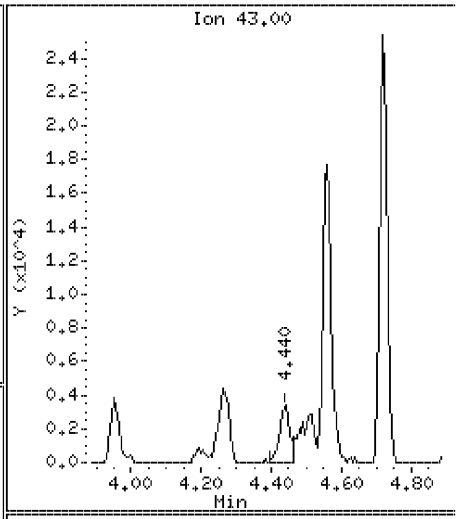
Column phase: J&W DB-5

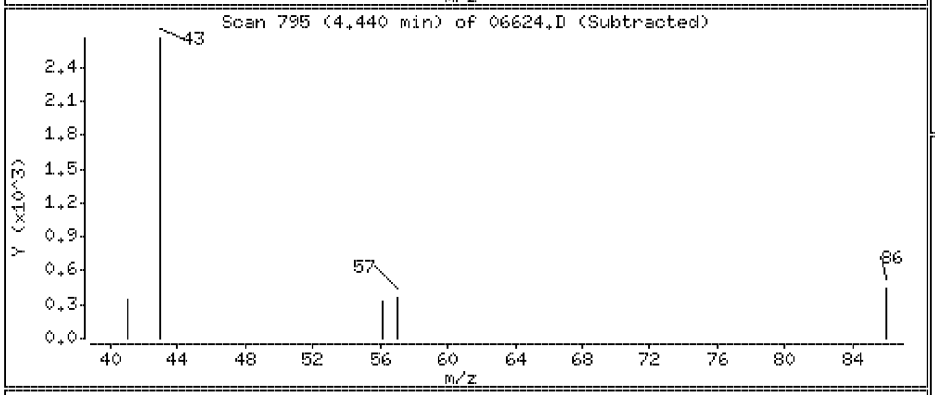
Column diameter: 0.32

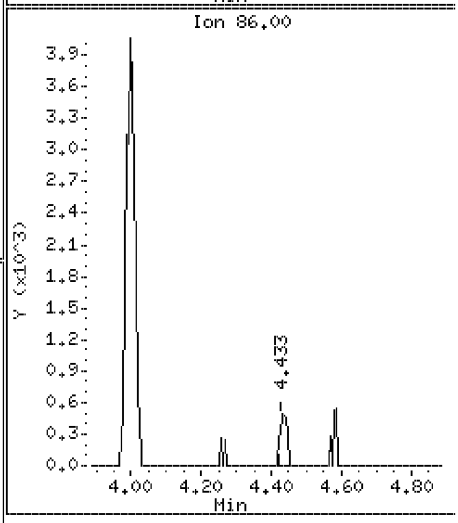
30 Vinyl Acetate

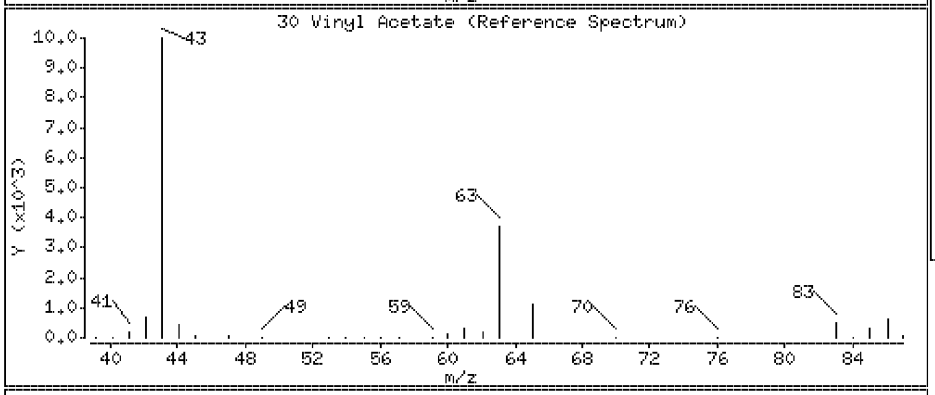
Concentration: 0.669 ppbv

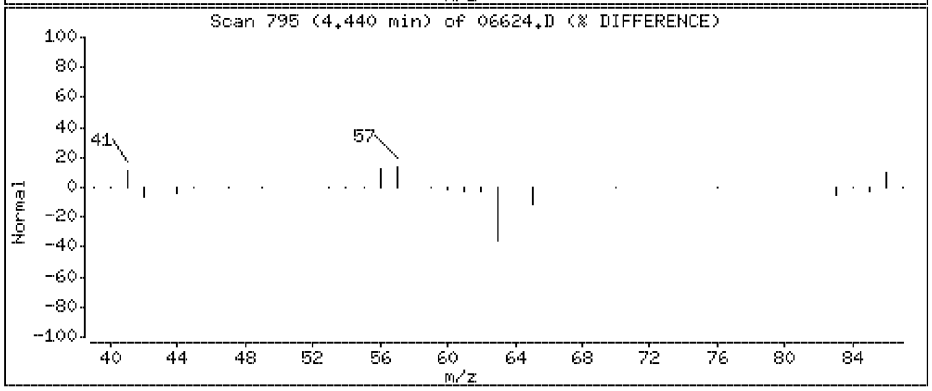












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

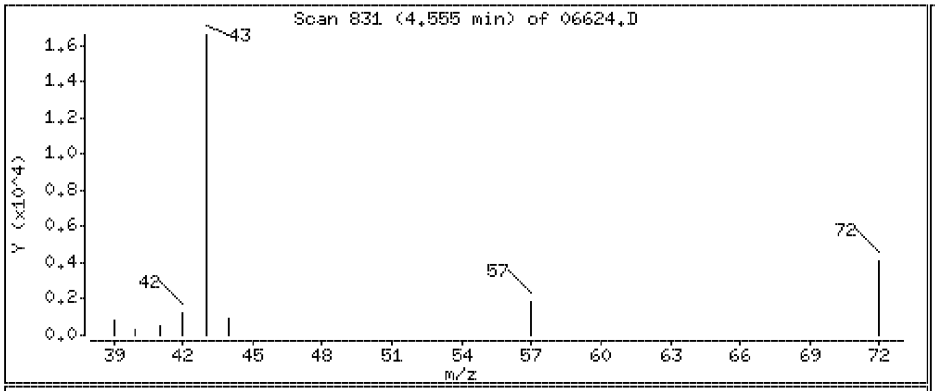
Operator: NCK

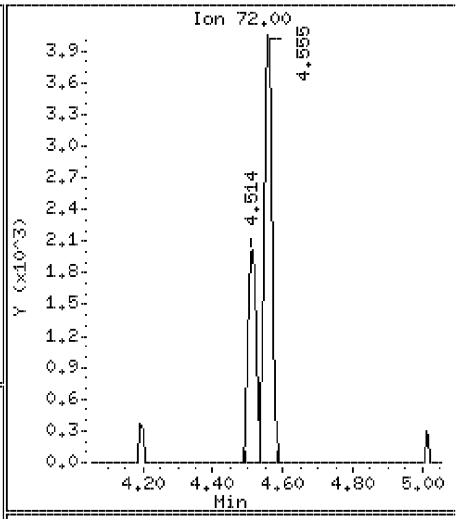
Column phase: J&W DB-5

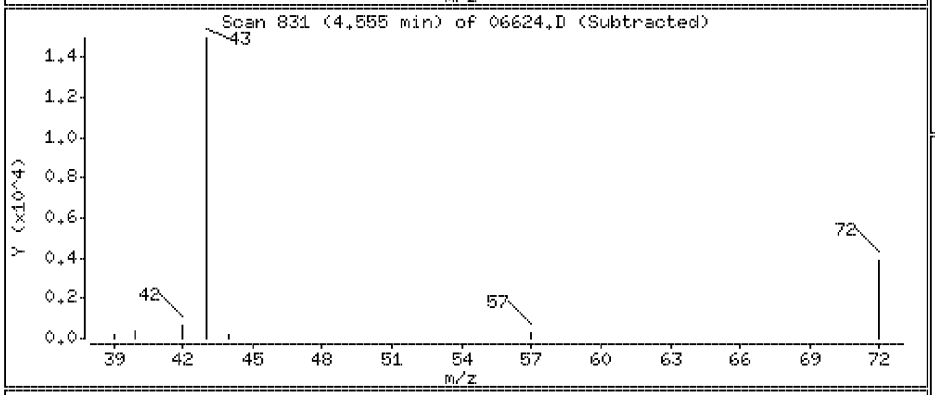
Column diameter: 0.32

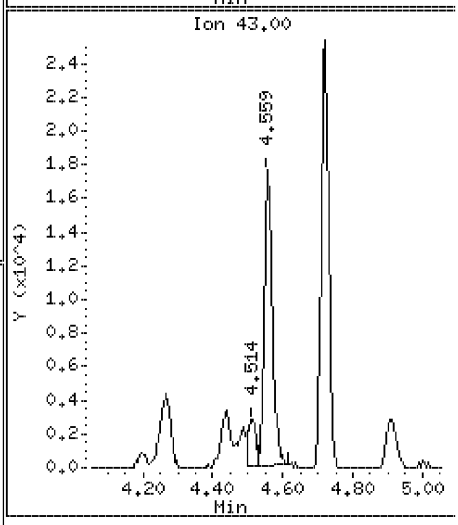
33 Methyl Ethyl Ketone

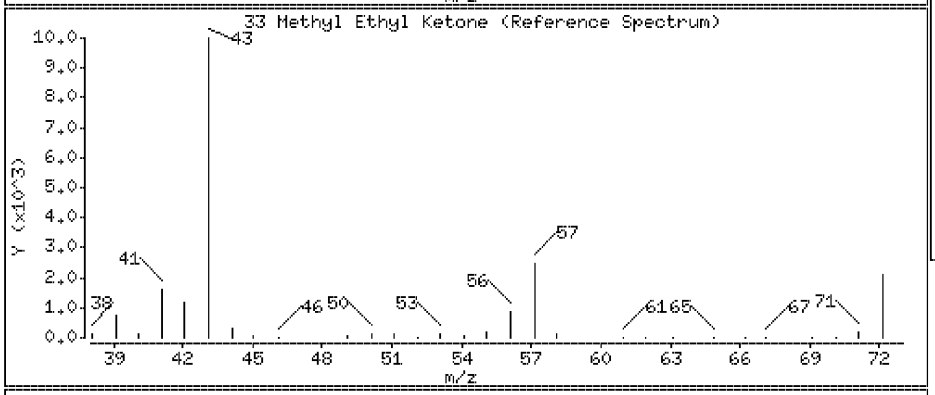
Concentration: 1.82 ppbv

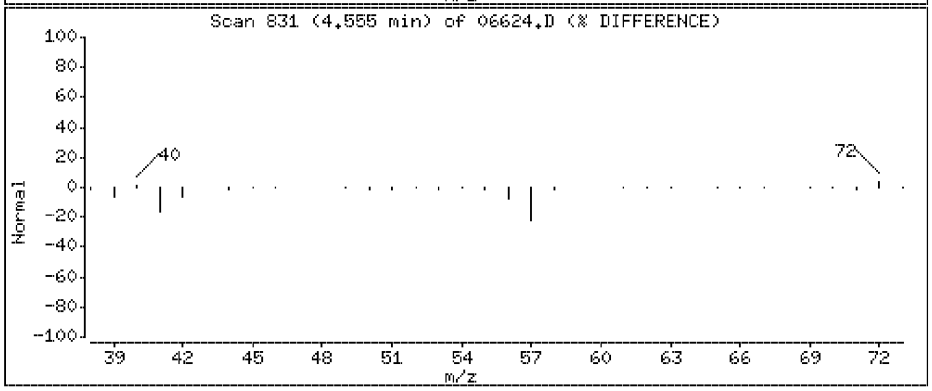












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

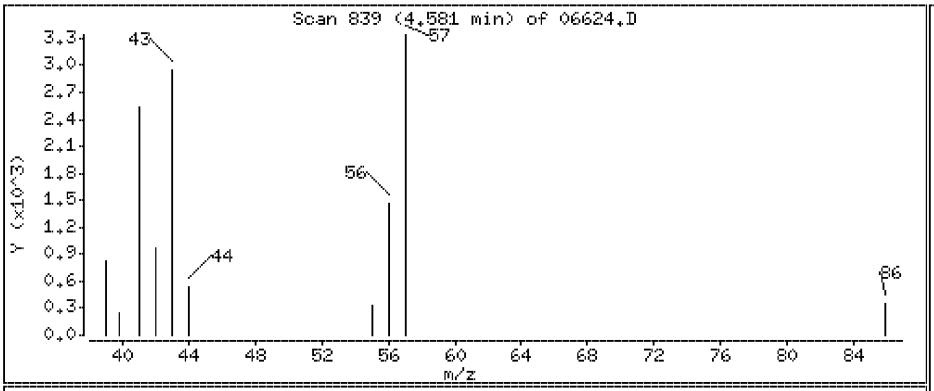
Operator: NCK

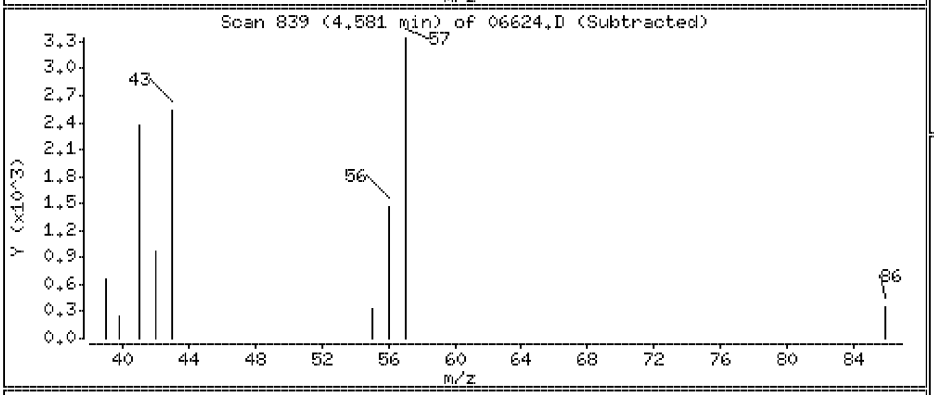
Column phase: J&W DB-5

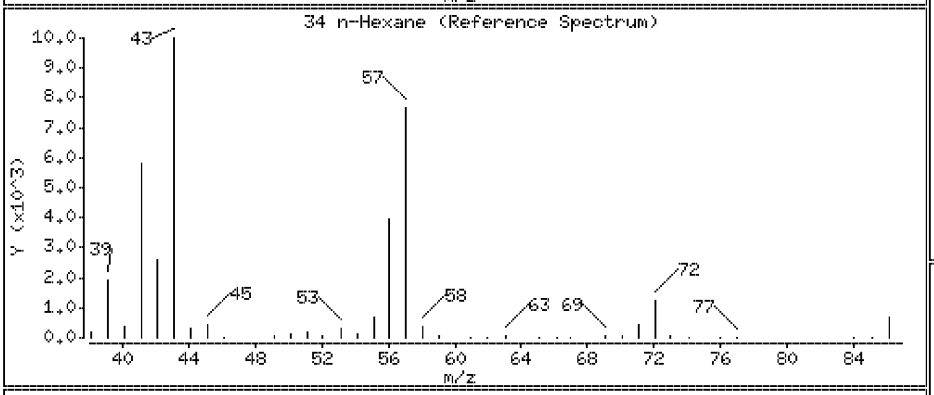
Column diameter: 0.32

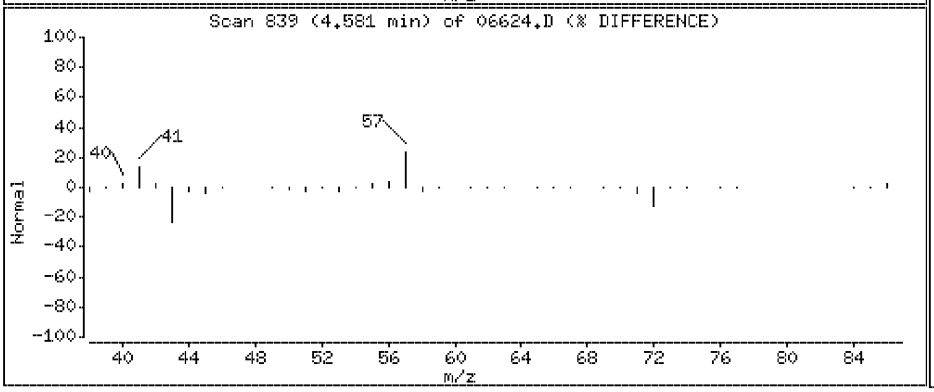
34 n-Hexane

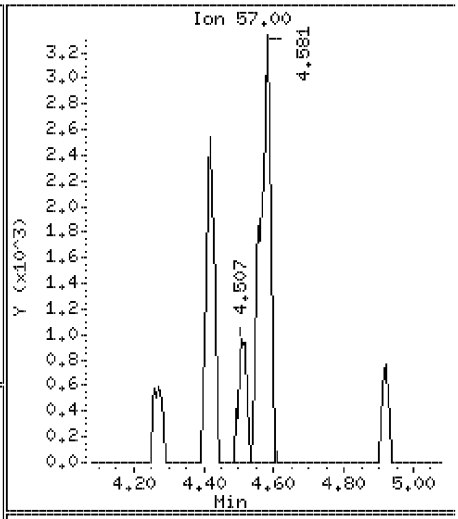
Concentration: 0.564 ppbv

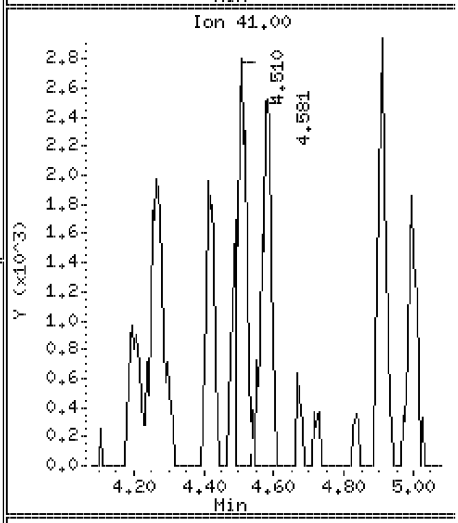


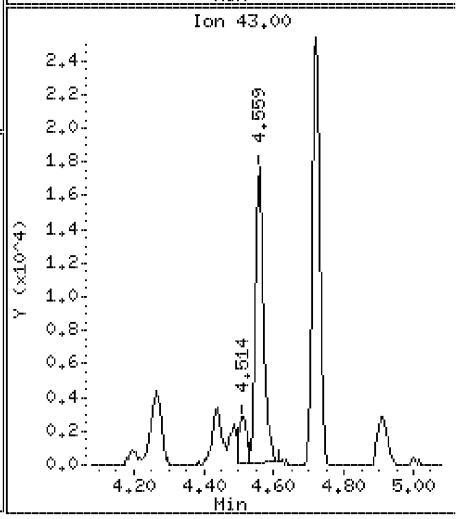












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

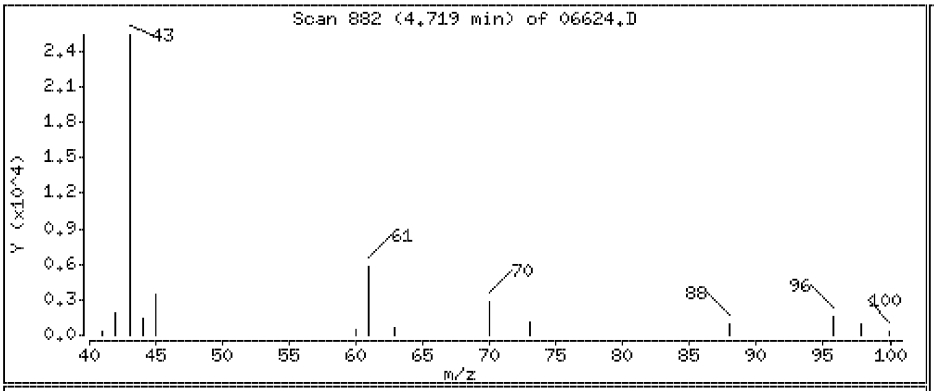
Operator: NCK

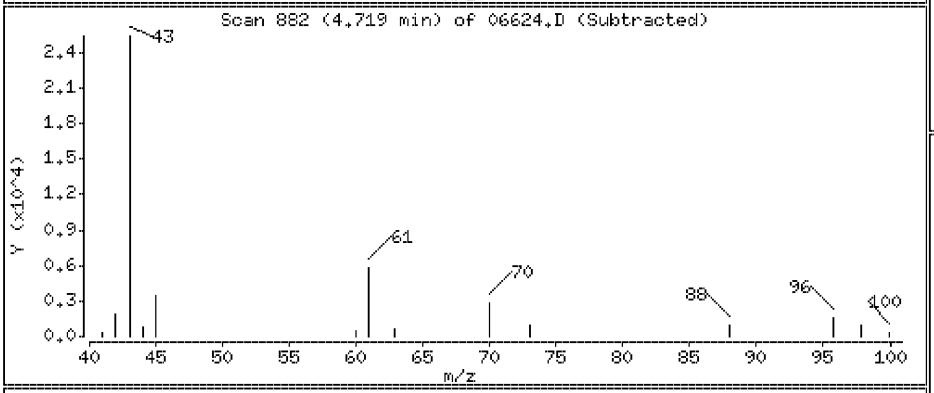
Column phase: J&W DB-5

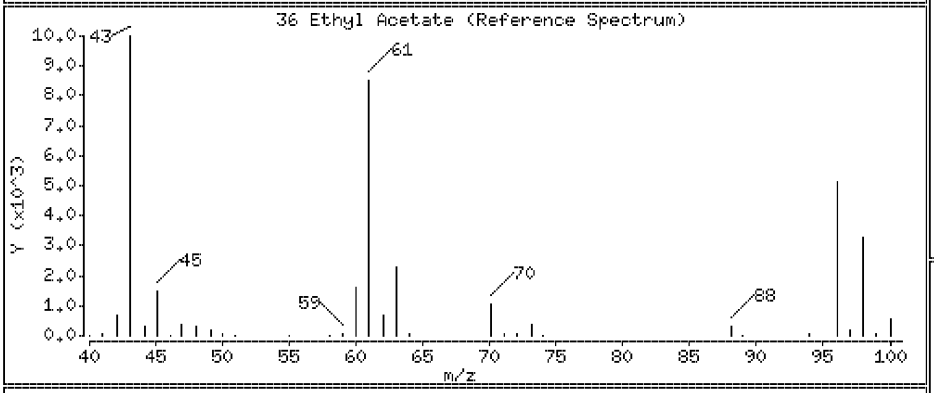
Column diameter: 0.32

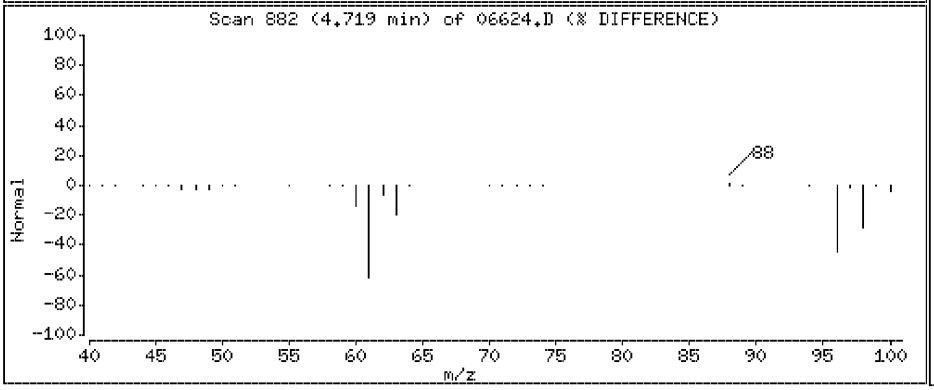
36 Ethyl Acetate

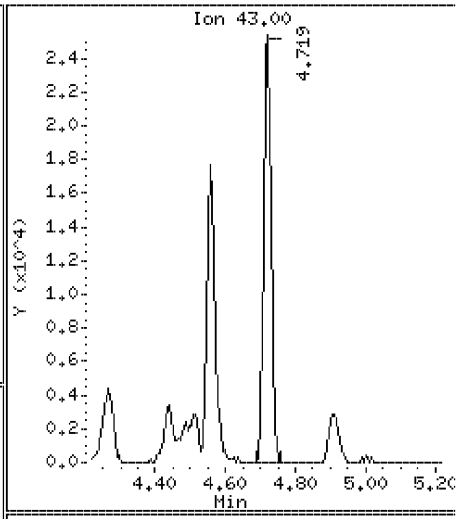
Concentration: 2.37 ppbv

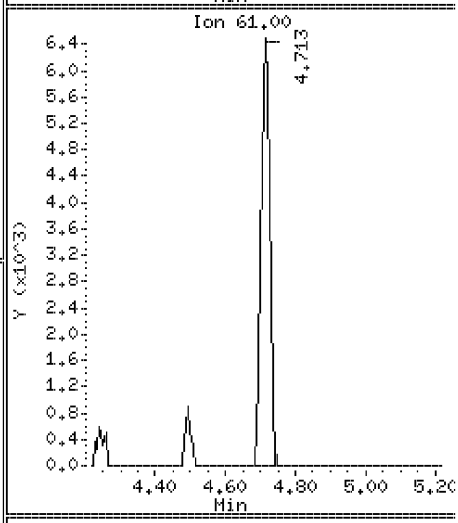


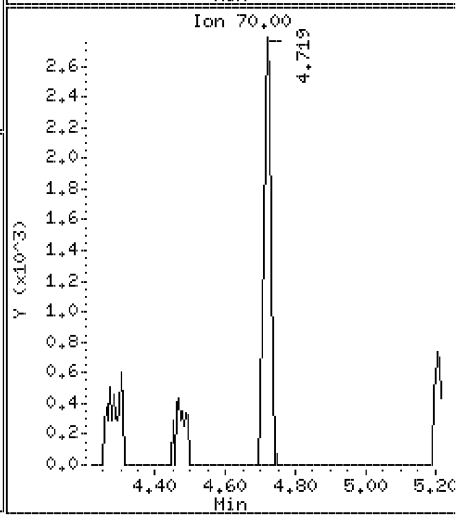












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

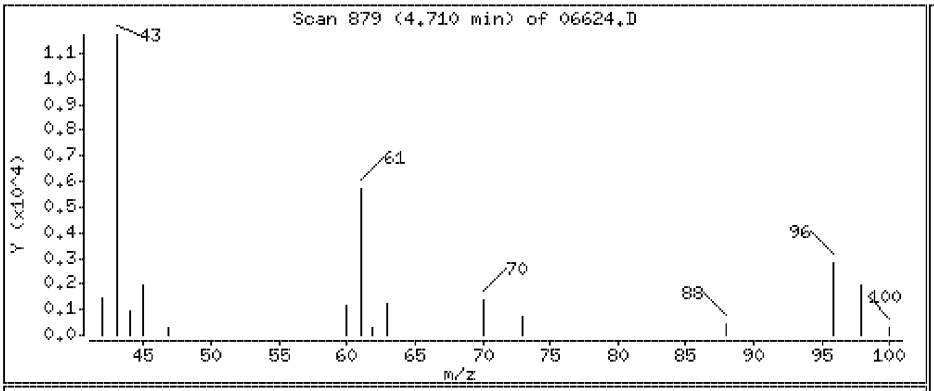
Operator: NCK

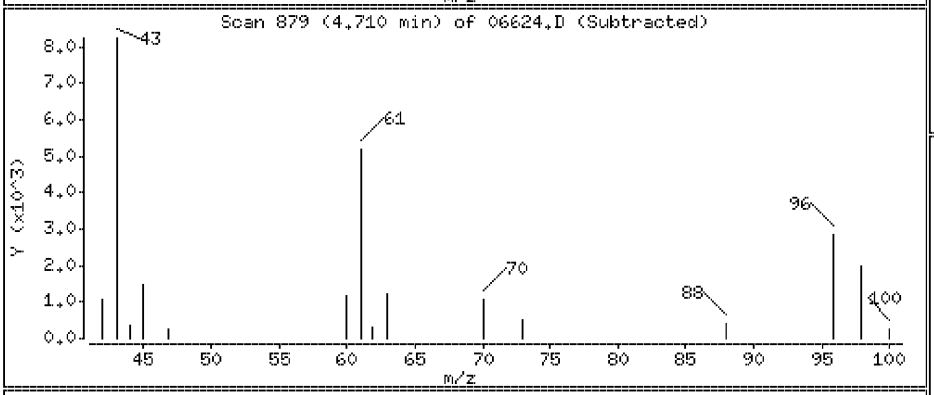
Column phase: J&W DB-5

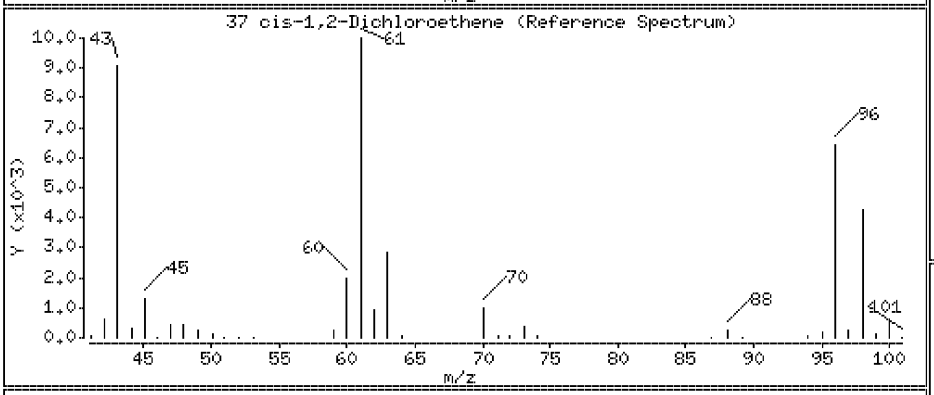
Column diameter: 0.32

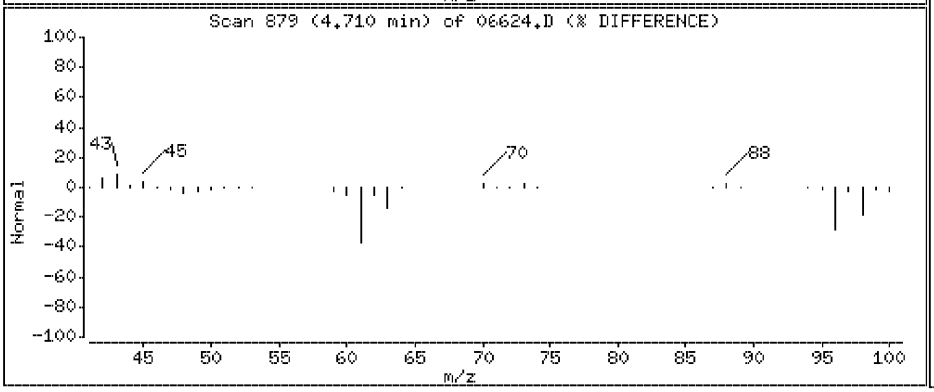
37 cis-1,2-Dichloroethene

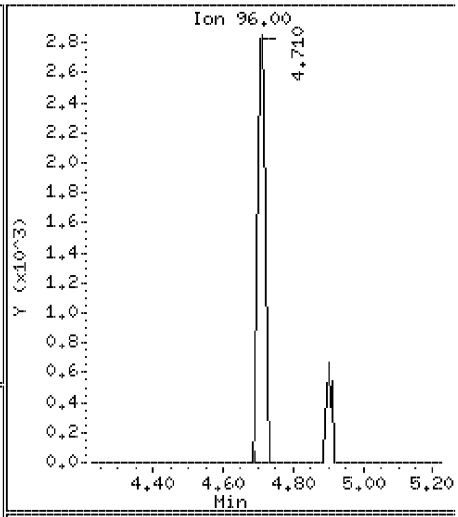
Concentration: 0.566 ppbv

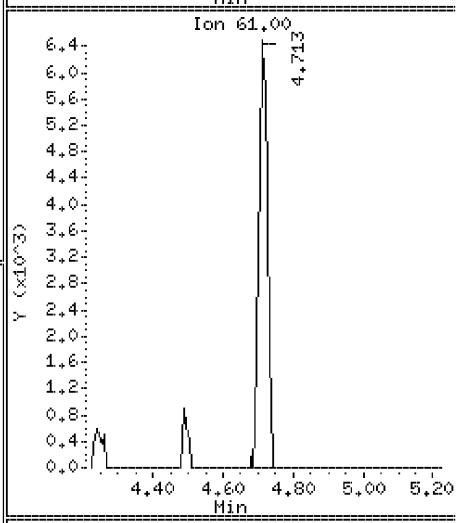


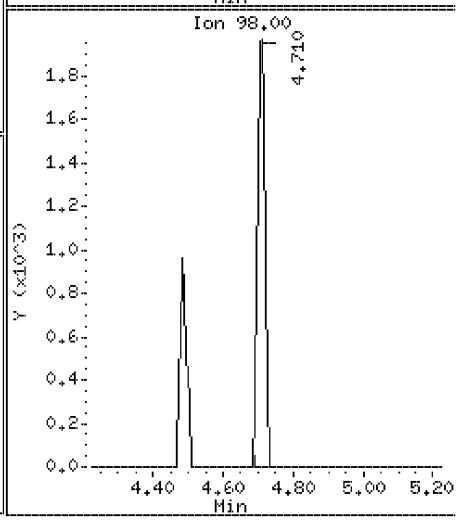












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

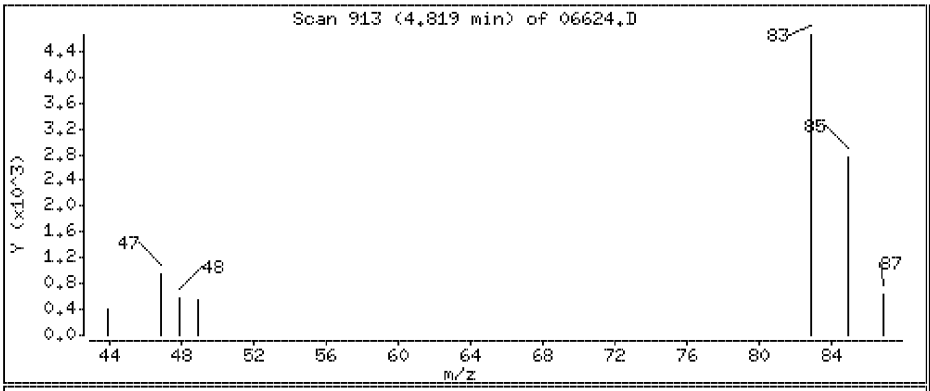
Operator: NCK

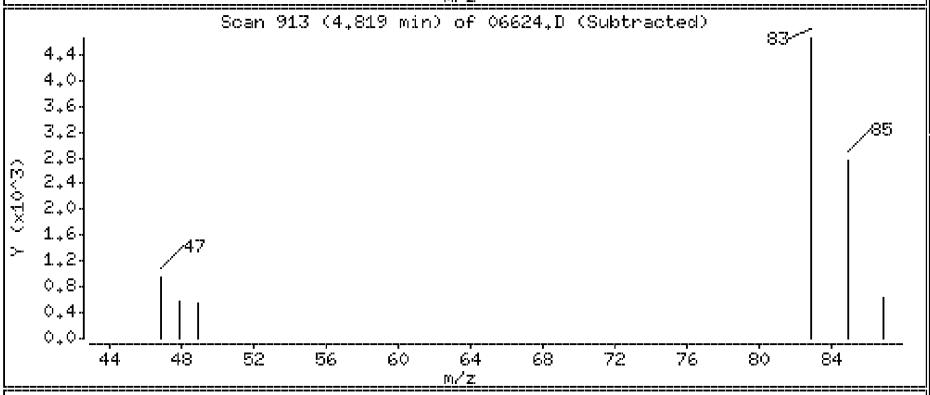
Column phase: J&W DB-5

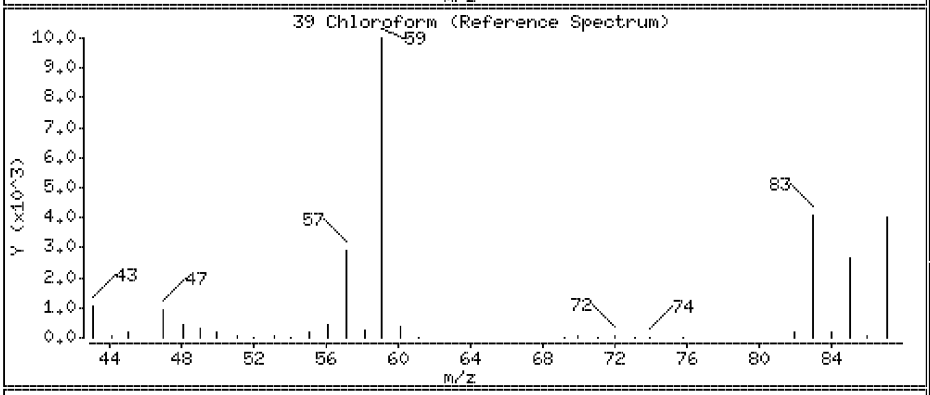
Column diameter: 0.32

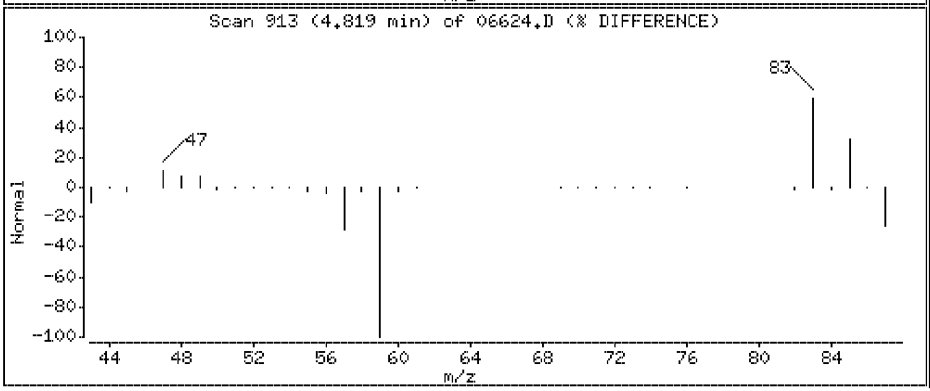
39 Chloroform

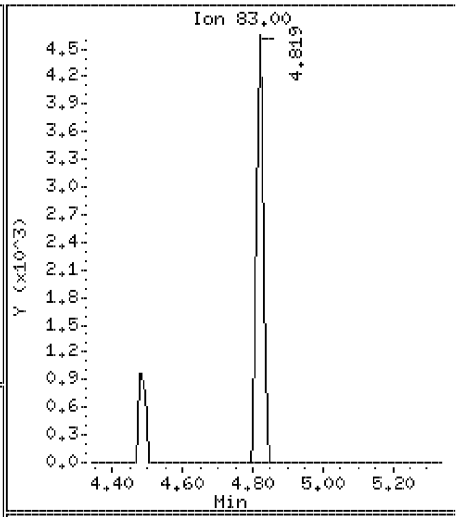
Concentration: 0.405 ppbv

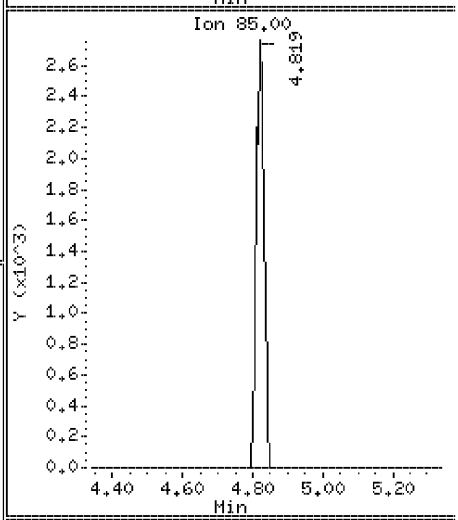


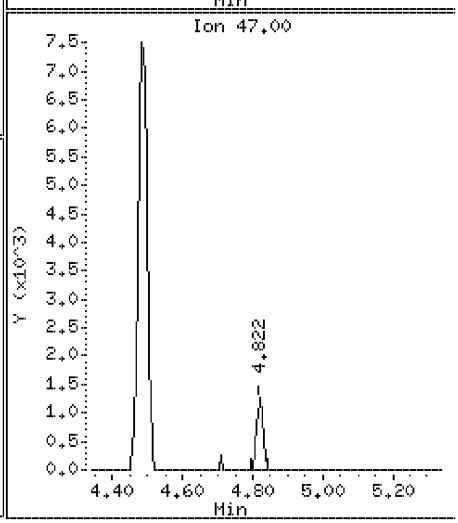












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

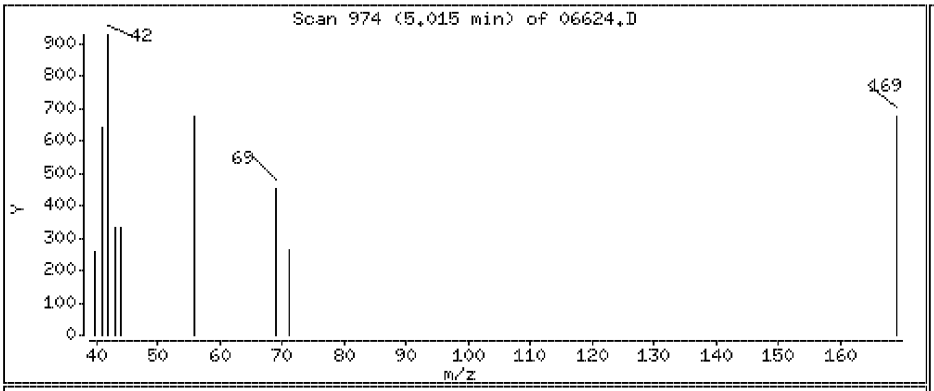
Operator: NCK

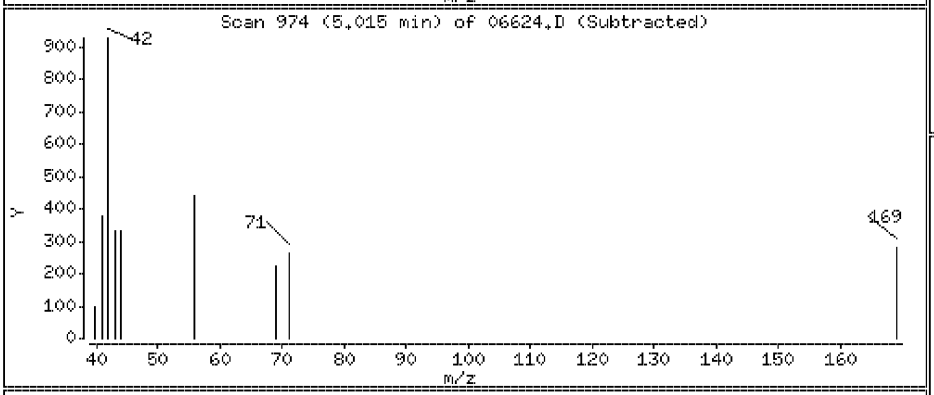
Column phase: J&W DB-5

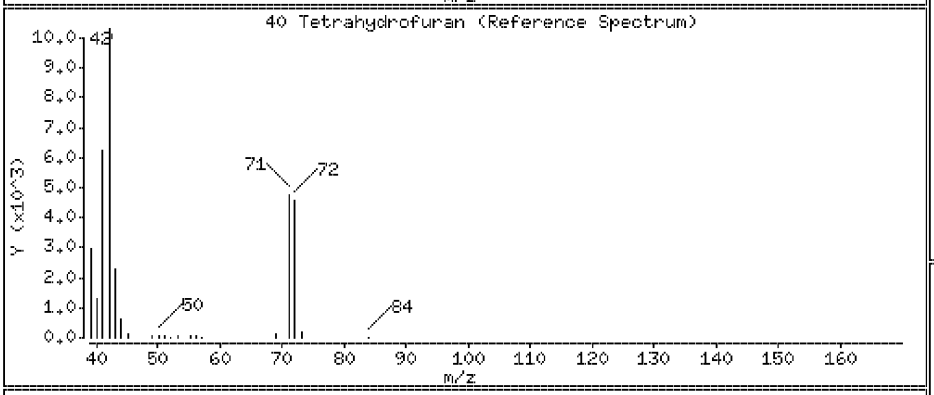
Column diameter: 0.32

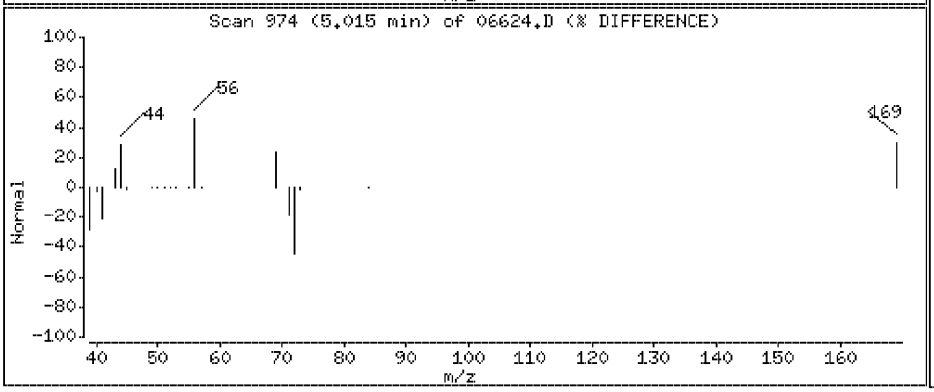
40 Tetrahydrofuran

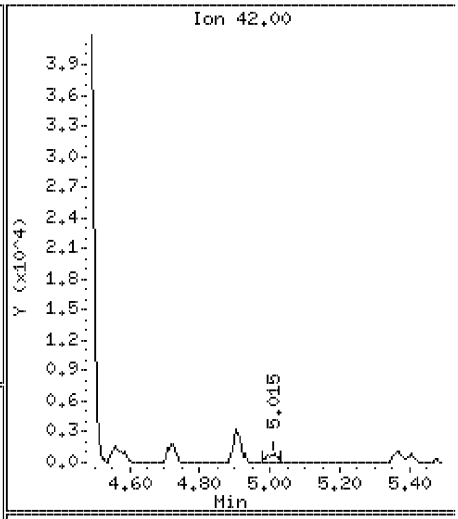
Concentration: 0.204 ppbv

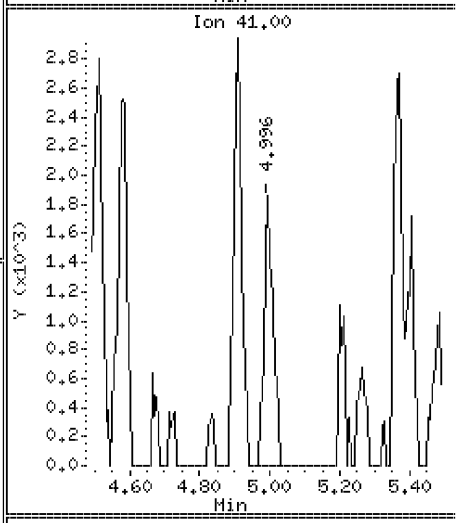


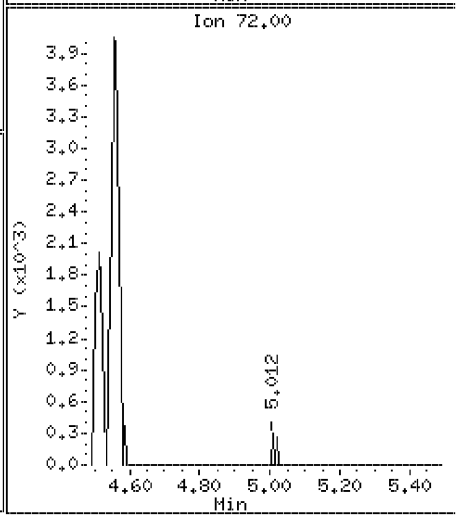












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

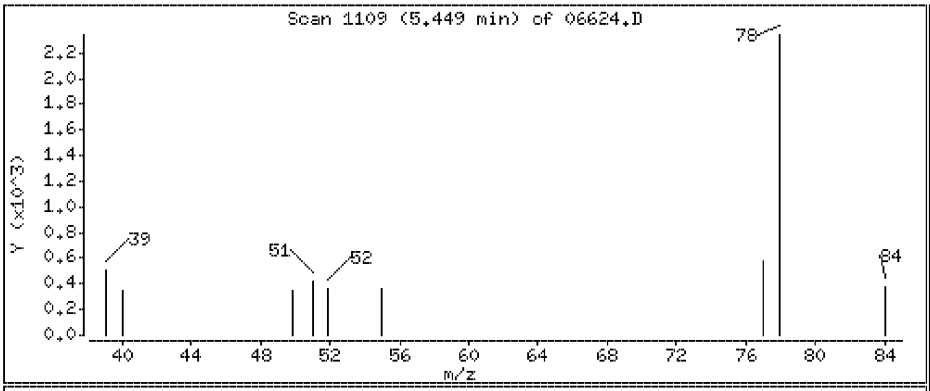
Operator: NCK

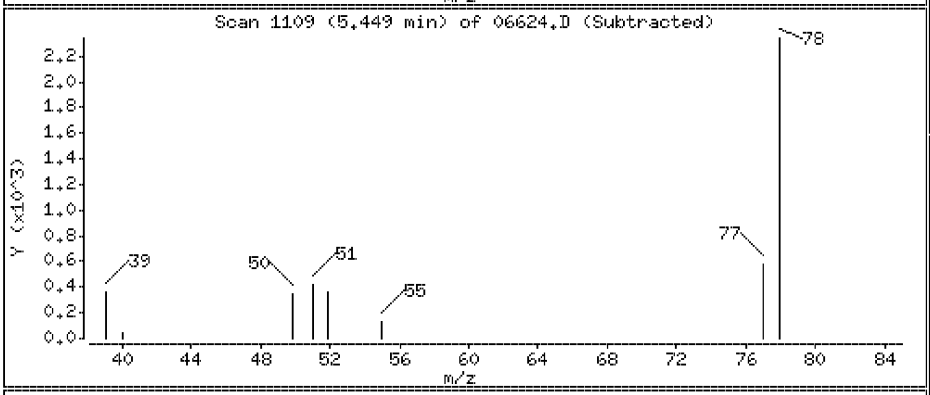
Column phase: J&W DB-5

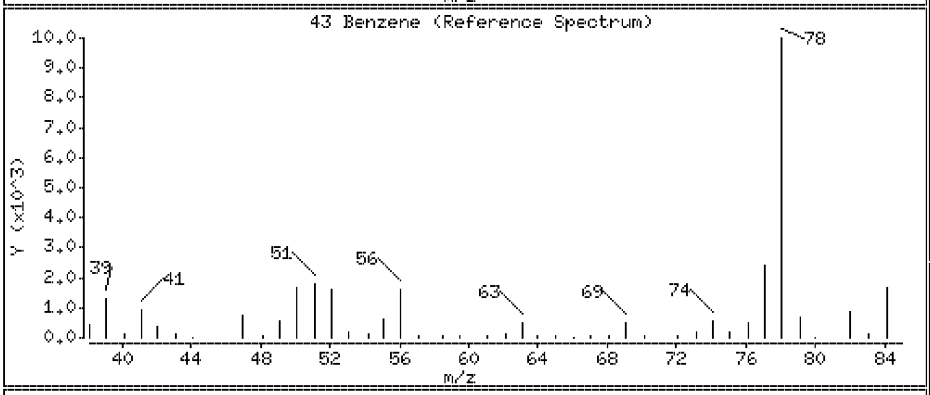
Column diameter: 0.32

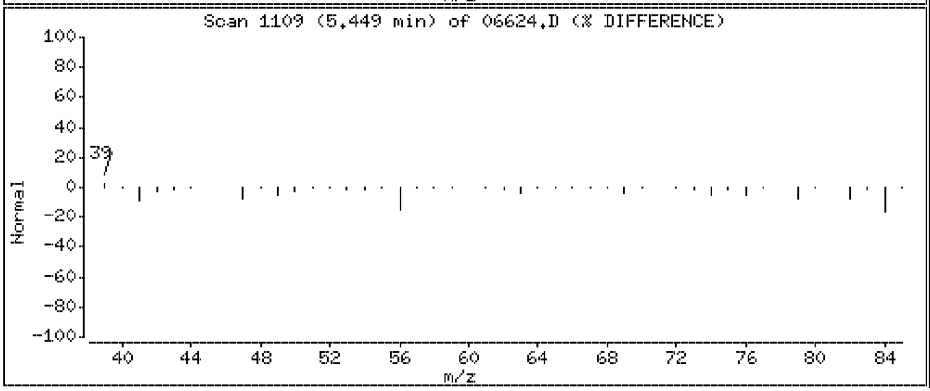
43 Benzene

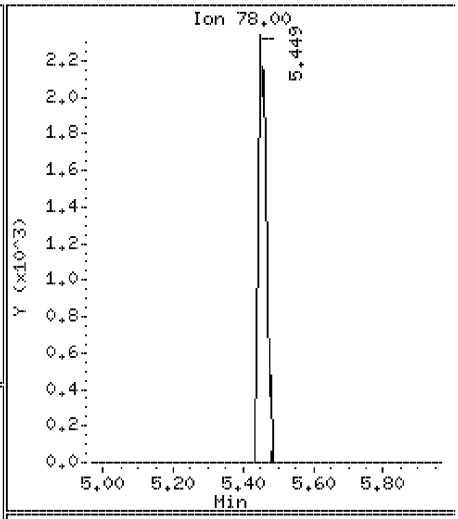
Concentration: 0.149 ppbv

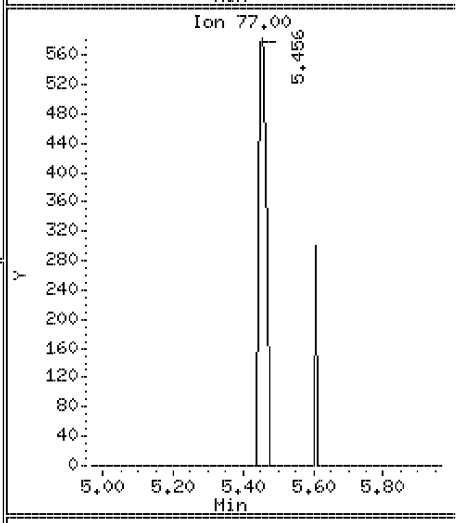


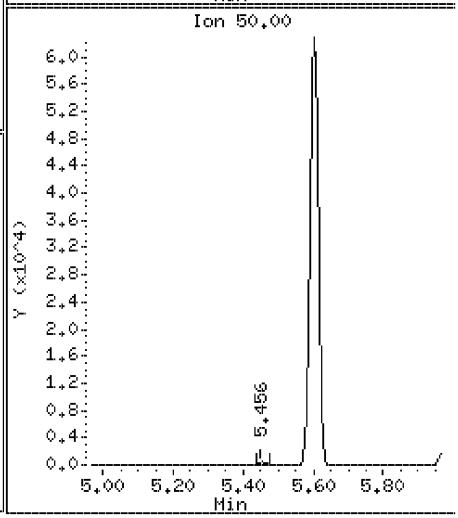












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

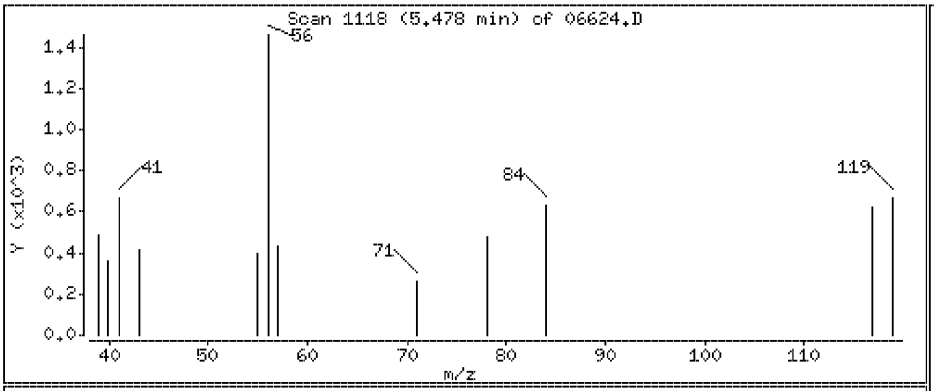
Operator: NCK

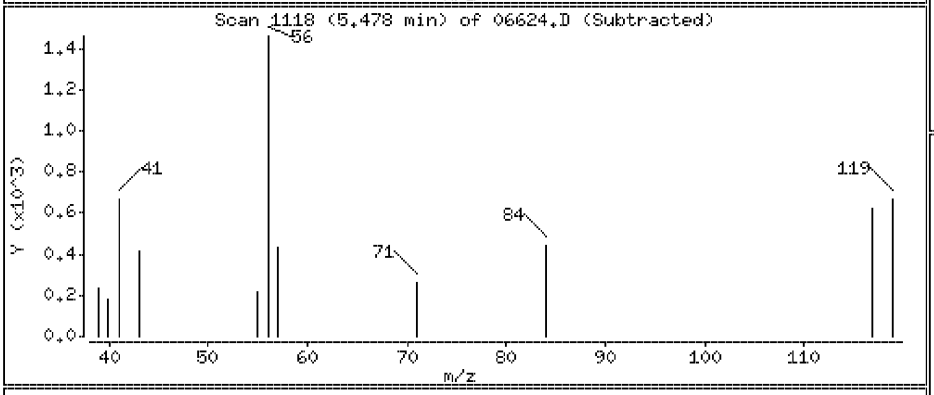
Column phase: J&W DB-5

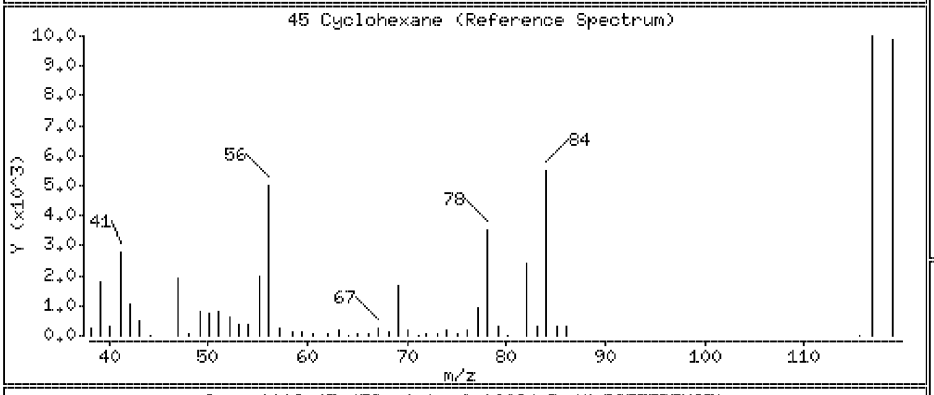
Column diameter: 0.32

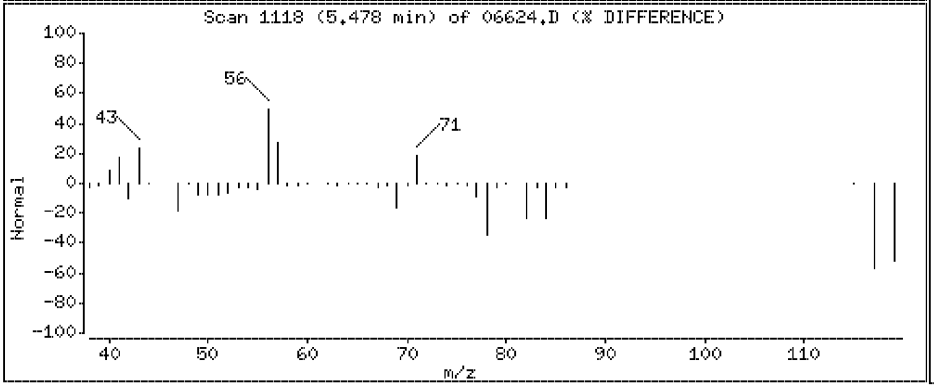
45 Cyclohexane

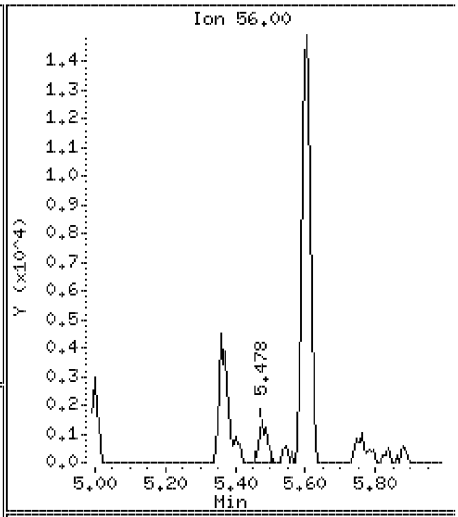
Concentration: 0.190 ppbv

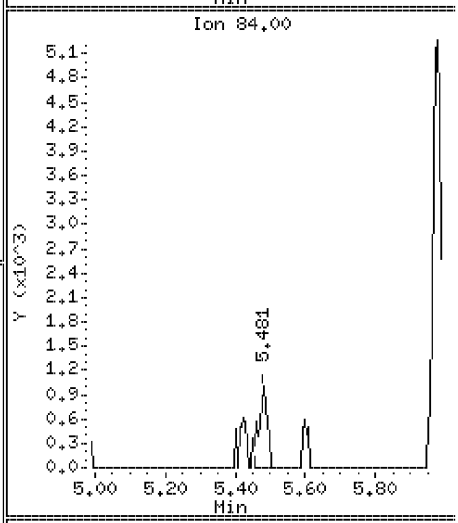


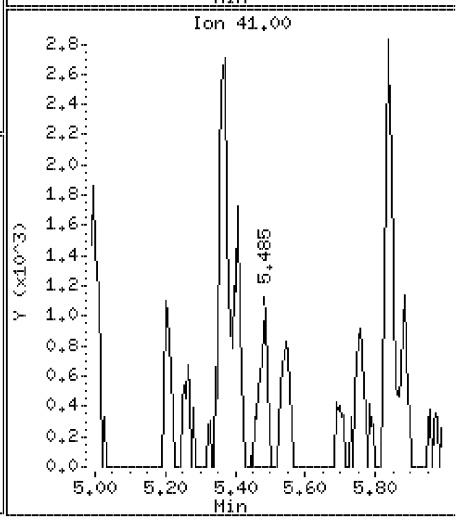












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

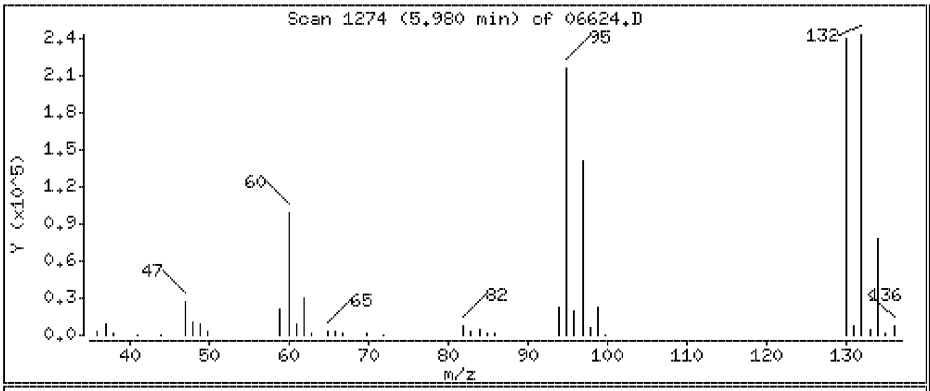
Operator: NCK

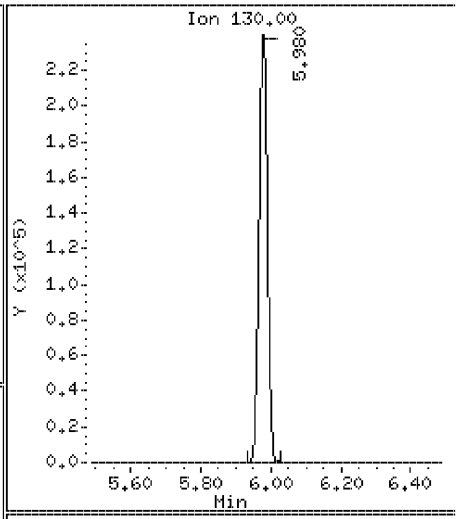
Column phase: J&W DB-5

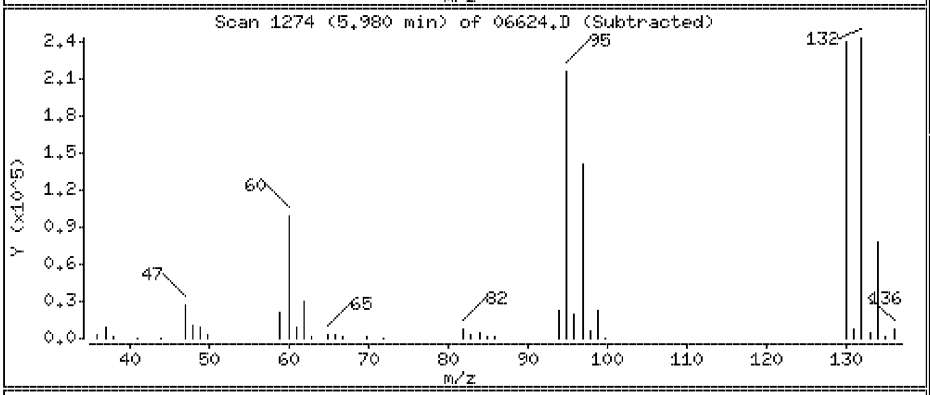
Column diameter: 0.32

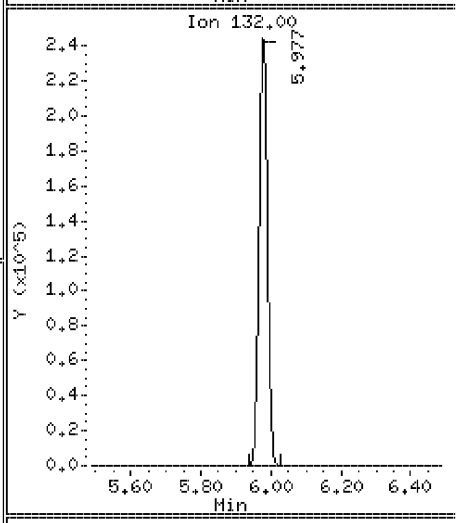
51 Trichloroethene

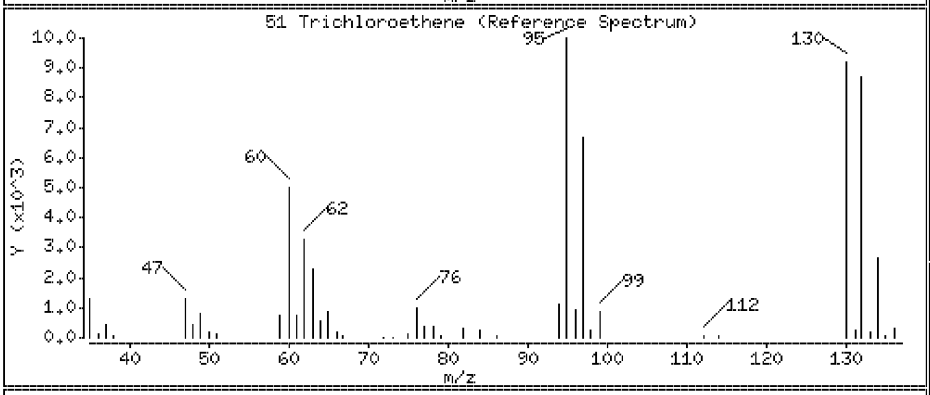
Concentration: 31.2 ppbv

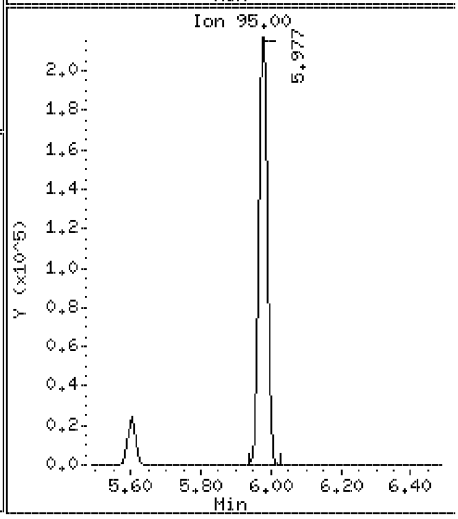


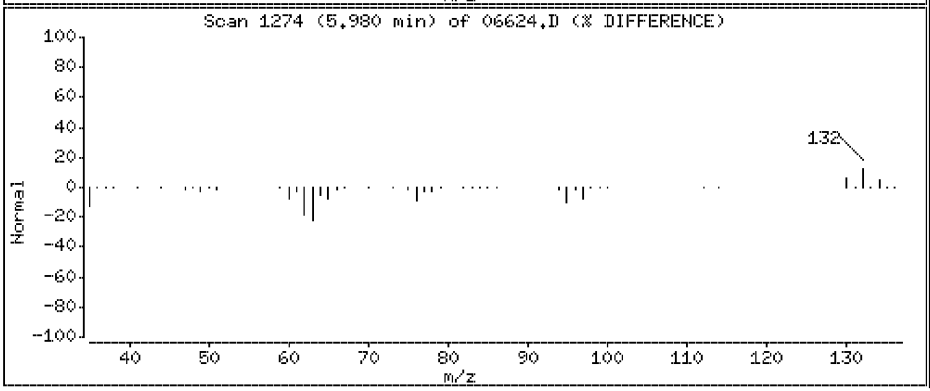












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

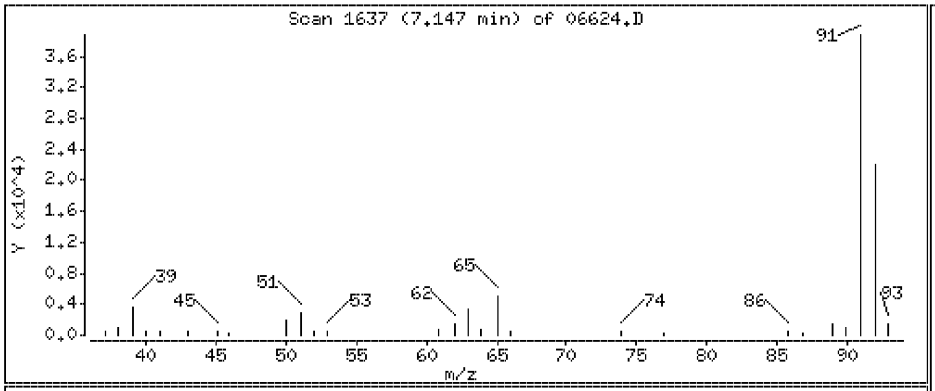
Operator: NCK

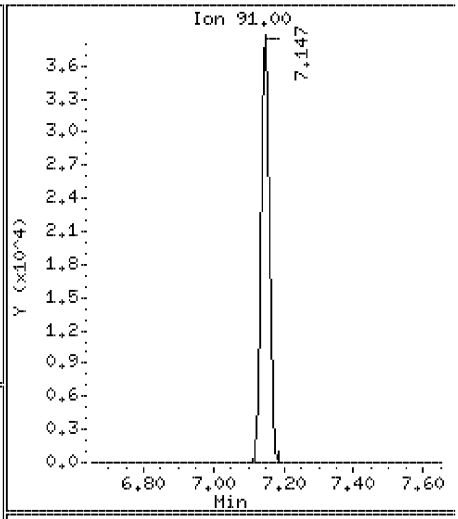
Column phase: J&W DB-5

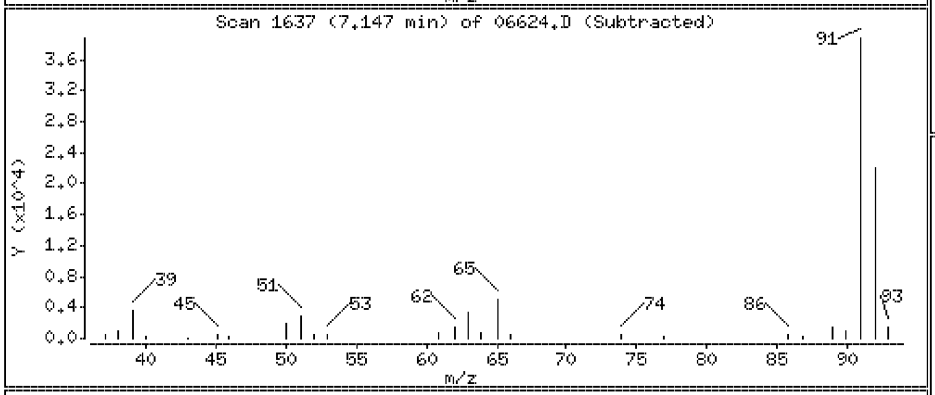
Column diameter: 0.32

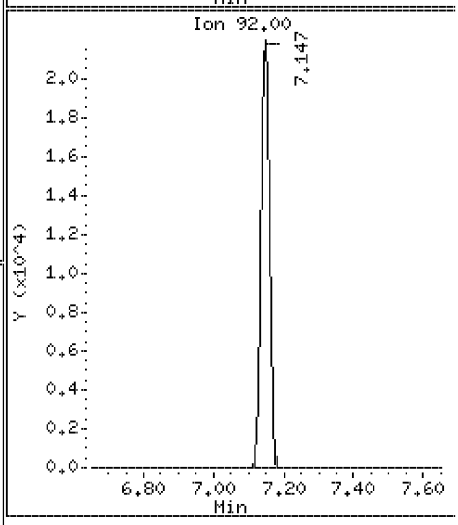
61 Toluene

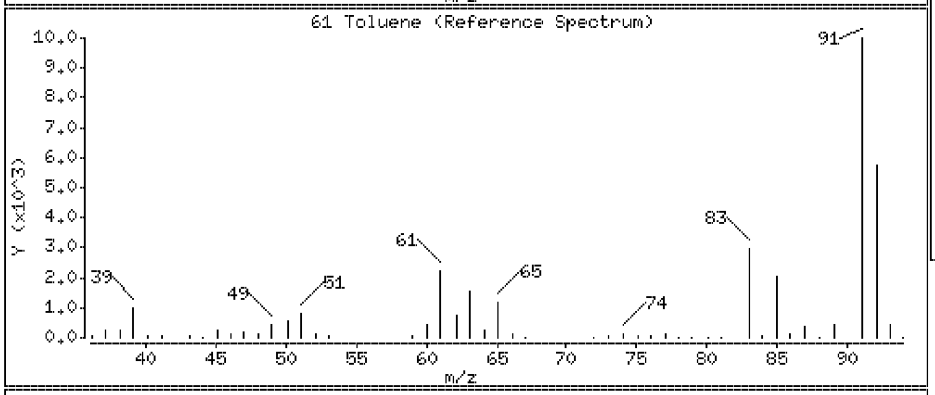
Concentration: 2.07 ppbv

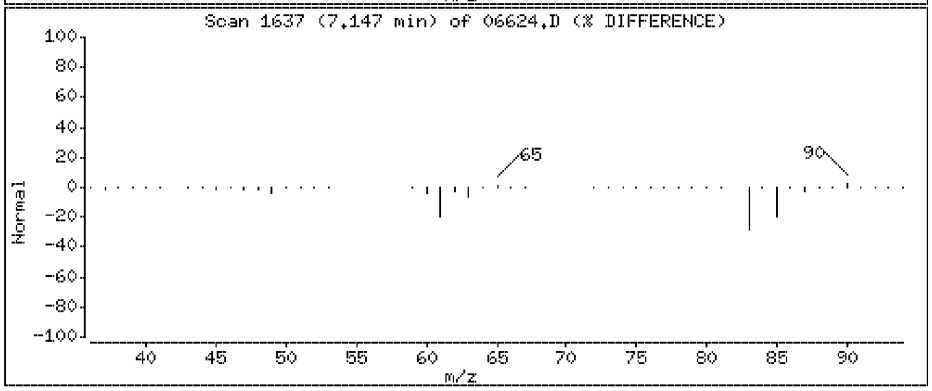












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

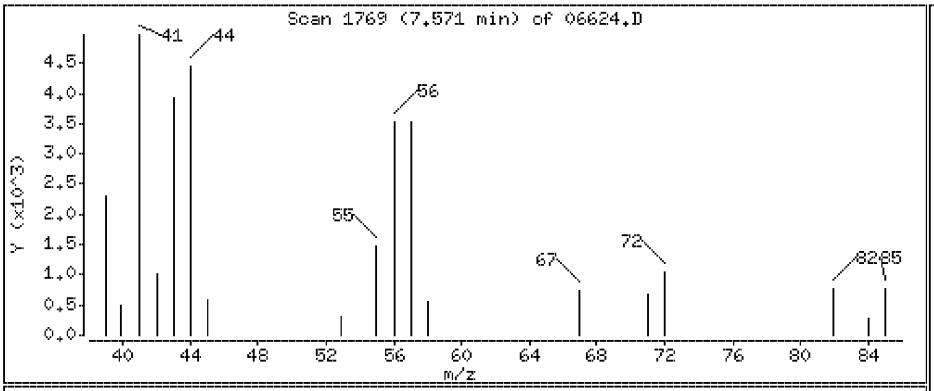
Operator: NCK

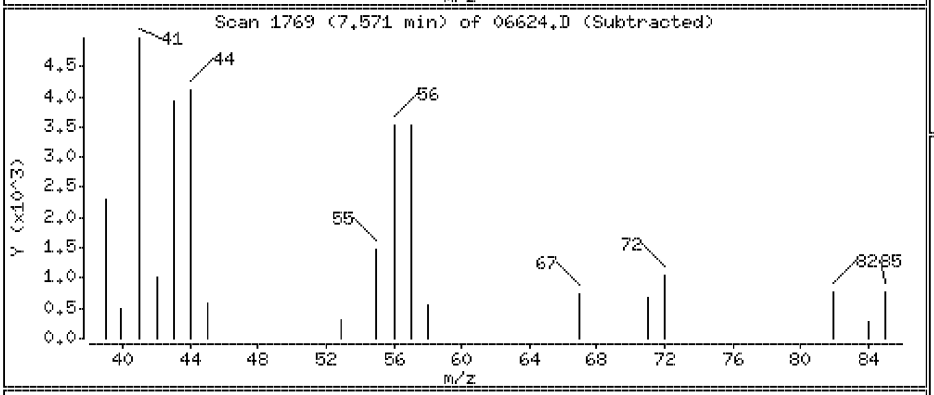
Column phase: J&W DB-5

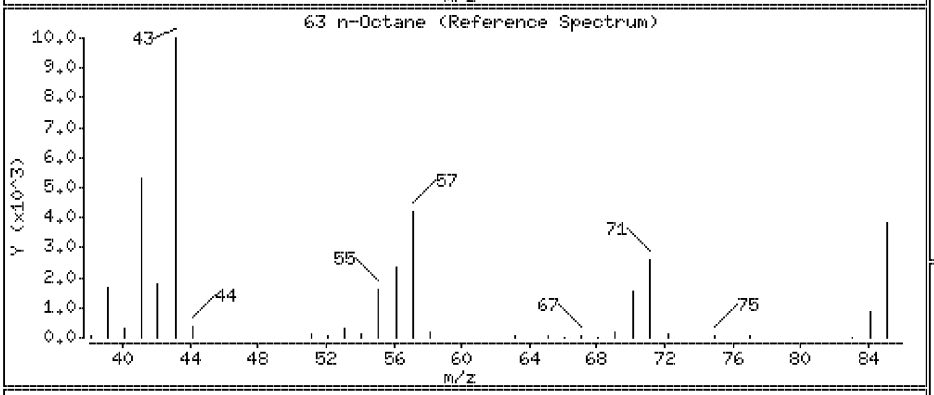
Column diameter: 0.32

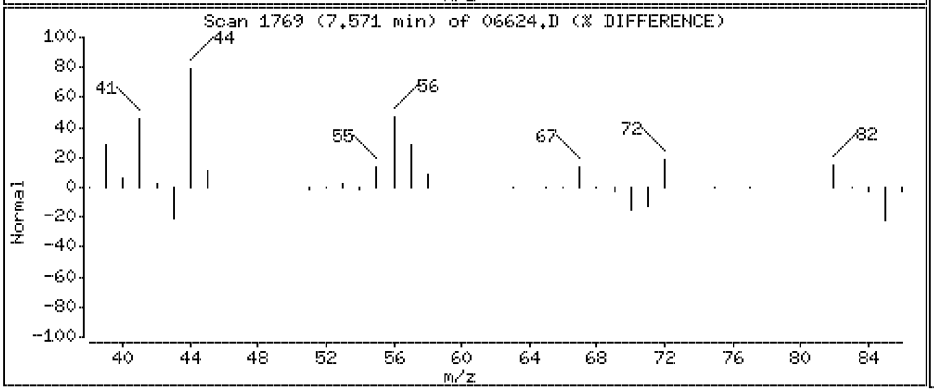
63 n-Octane

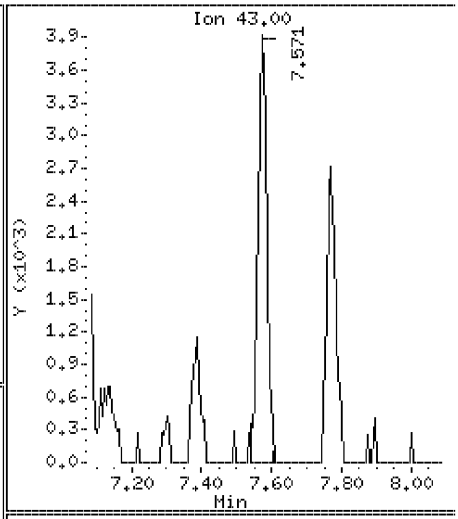
Concentration: 0.424 ppbv

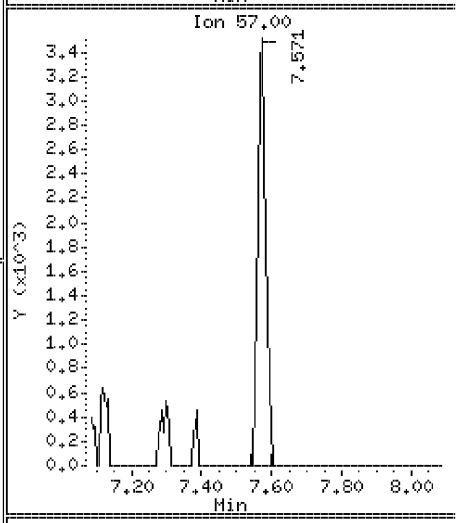


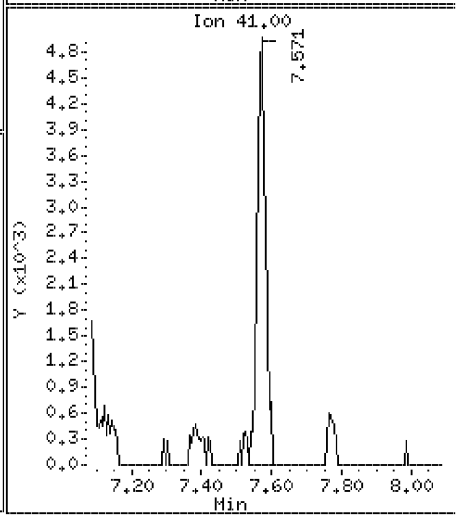












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

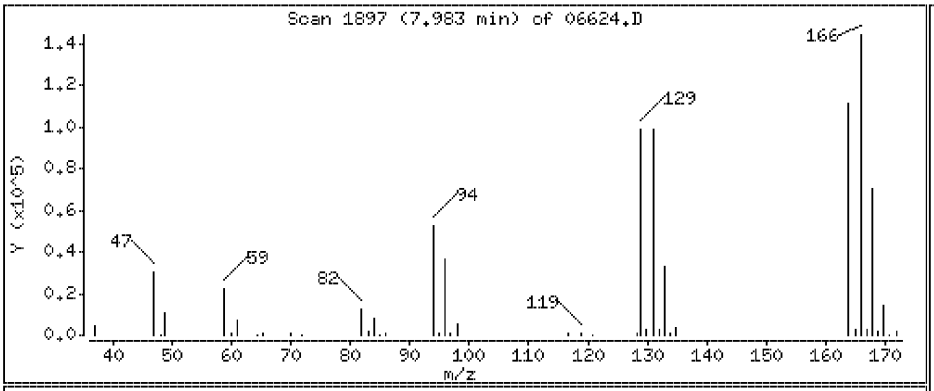
Operator: NCK

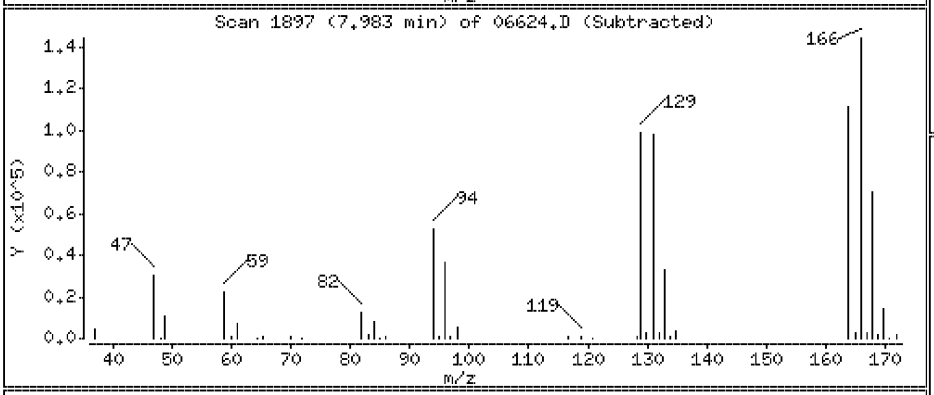
Column phase: J&W DB-5

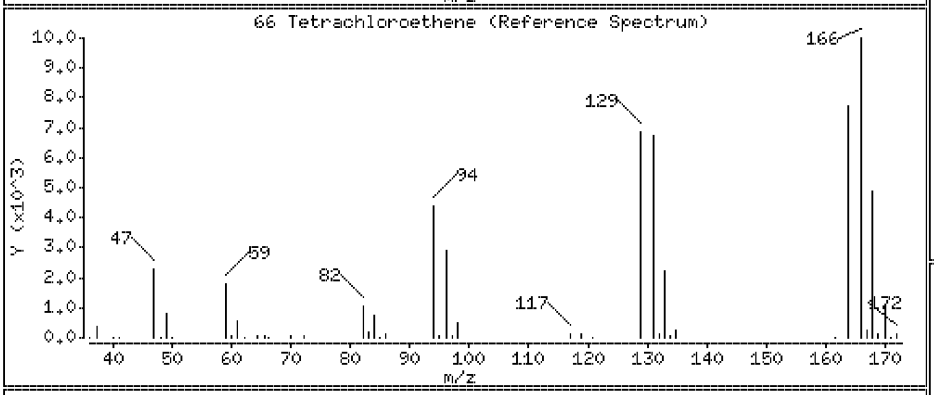
Column diameter: 0.32

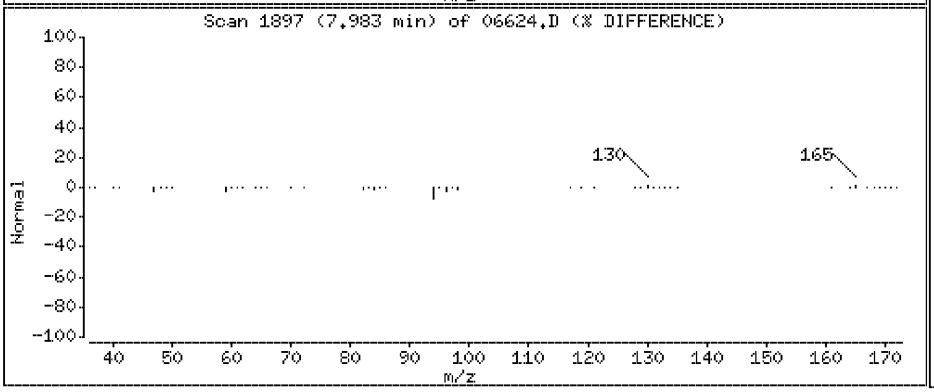
66 Tetrachloroethene

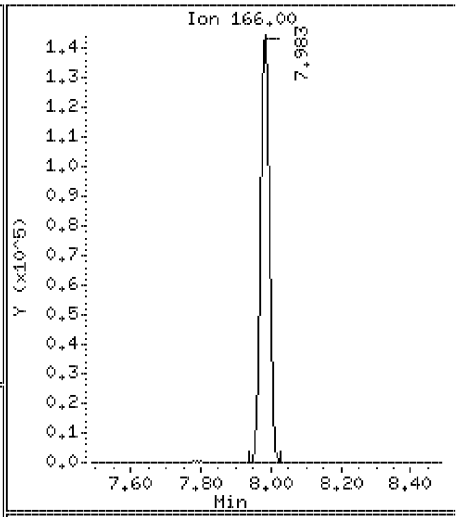
Concentration: 15.0 ppbv

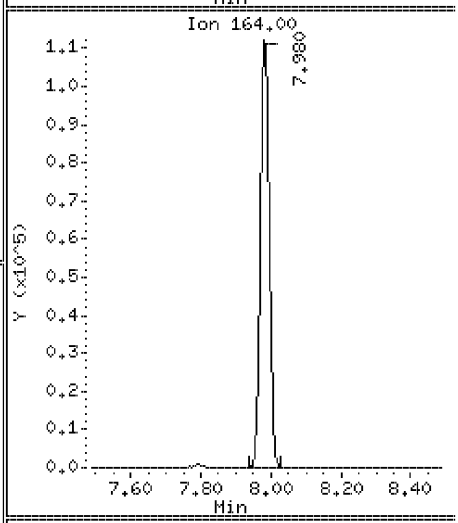


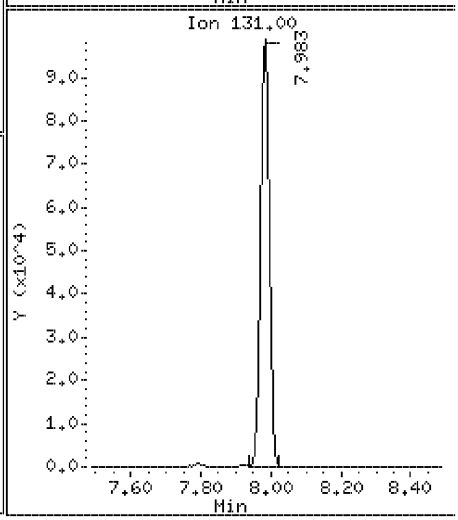












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

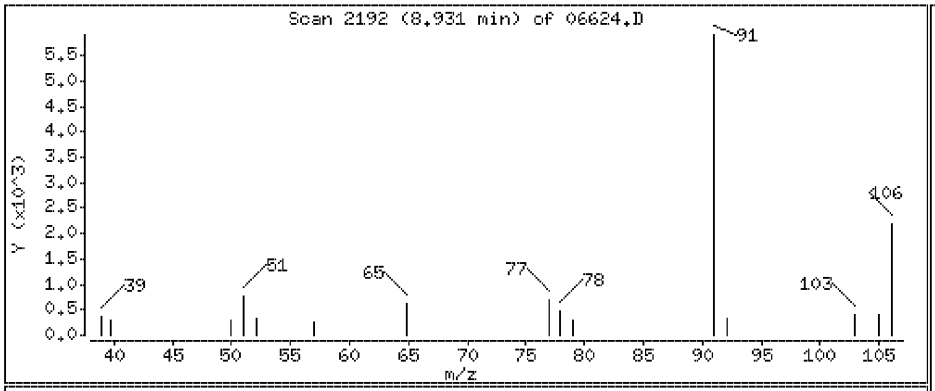
Operator: NCK

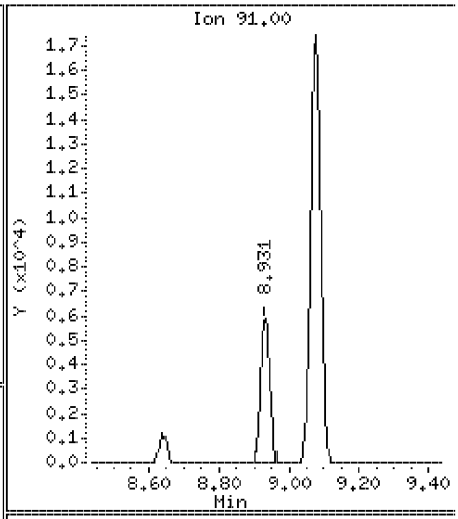
Column phase: J&W DB-5

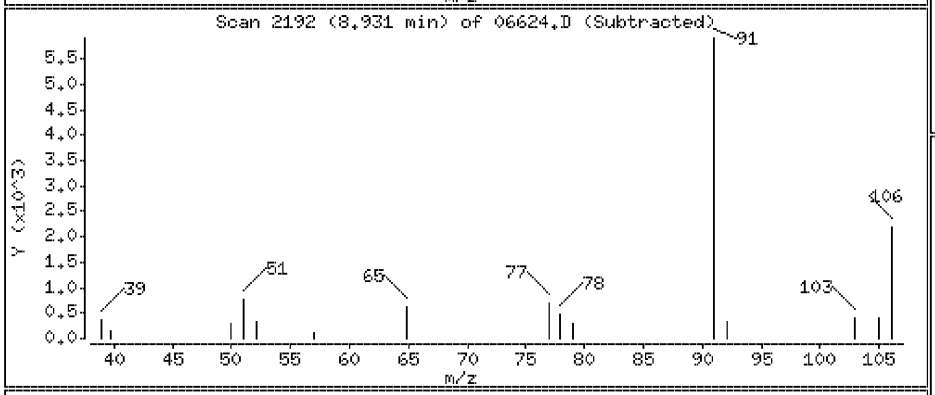
Column diameter: 0.32

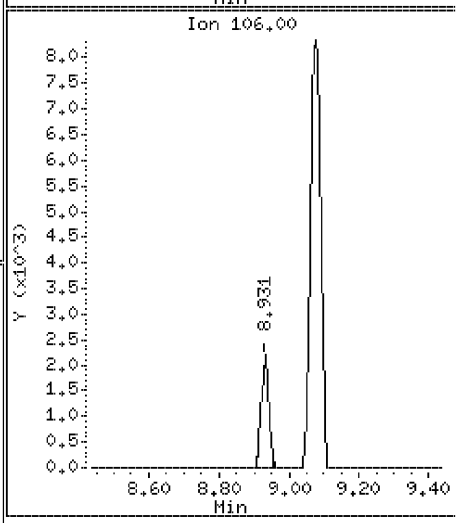
69 Ethyl Benzene

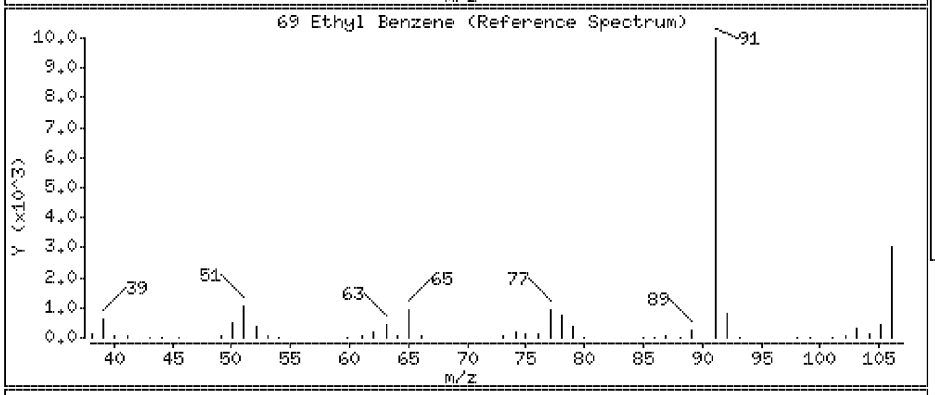
Concentration: 0.287 ppbv

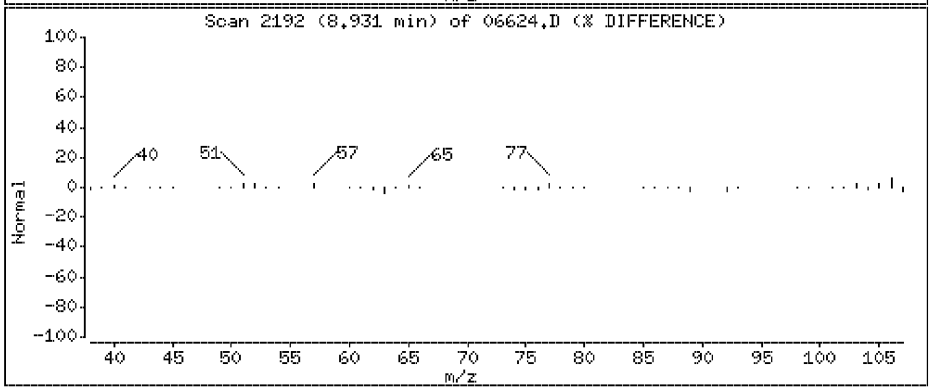












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

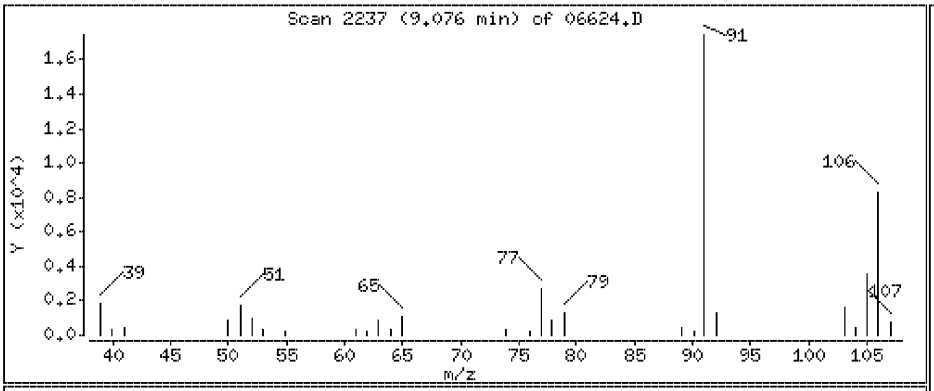
Operator: NCK

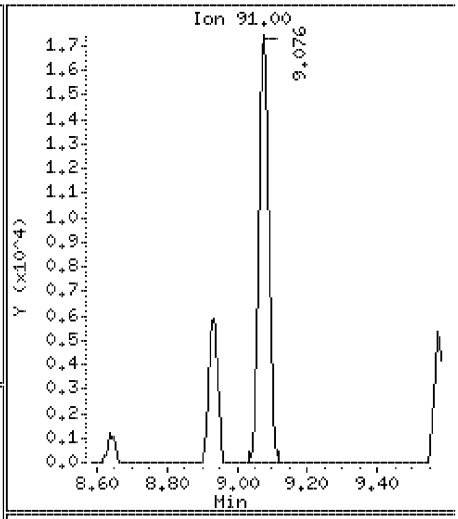
Column phase: J&W DB-5

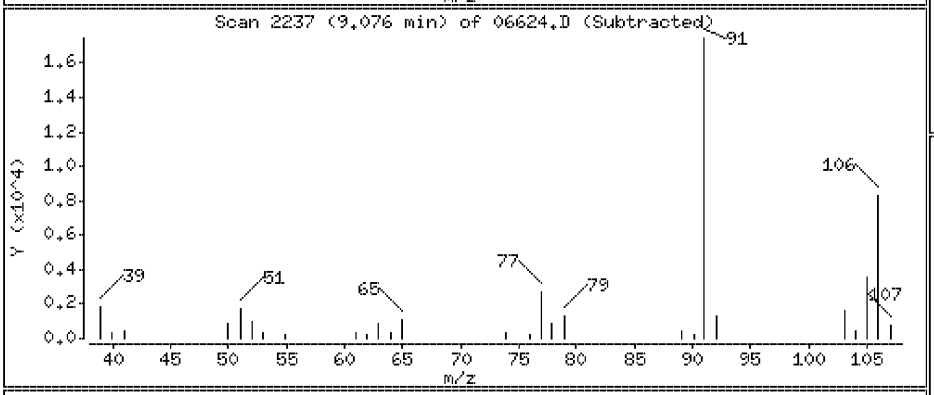
Column diameter: 0.32

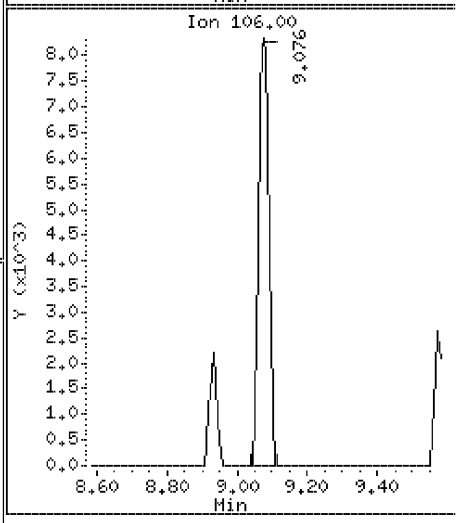
70 m&p-Xylene

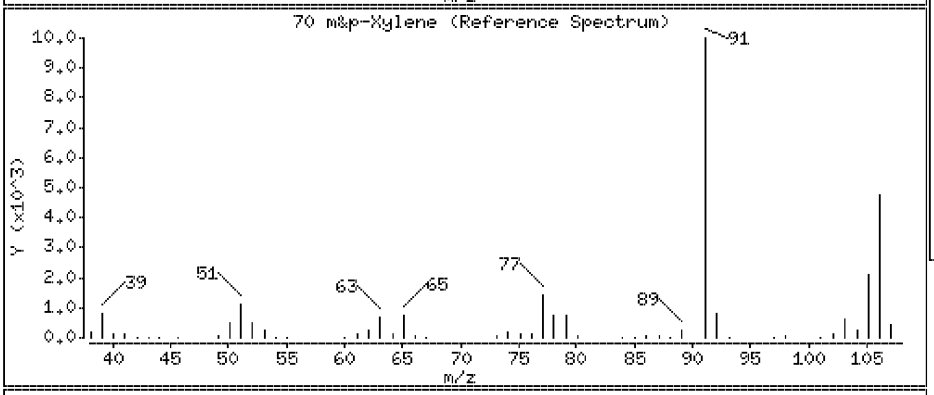
Concentration: 1.24 ppbv

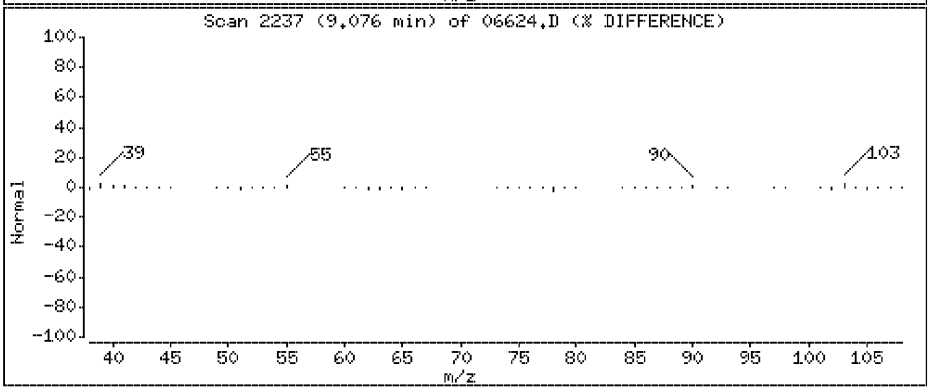












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

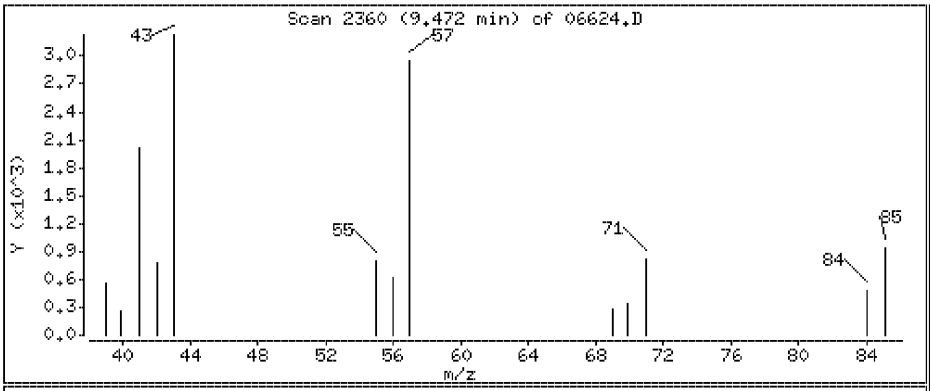
Operator: NCK

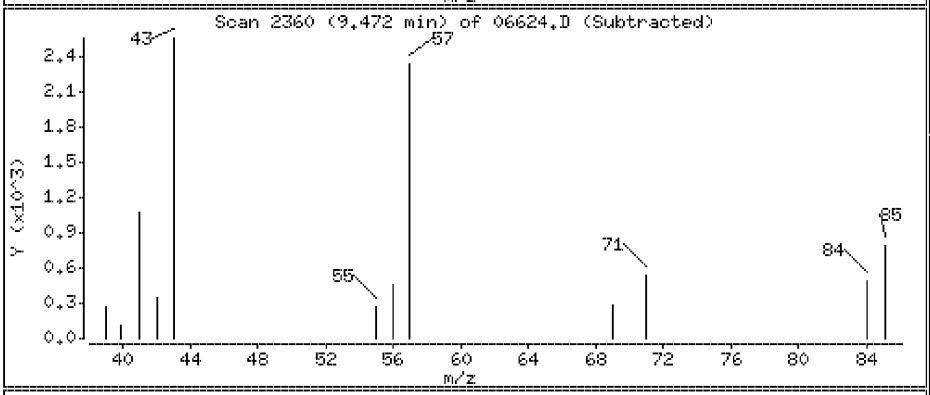
Column phase: J&W DB-5

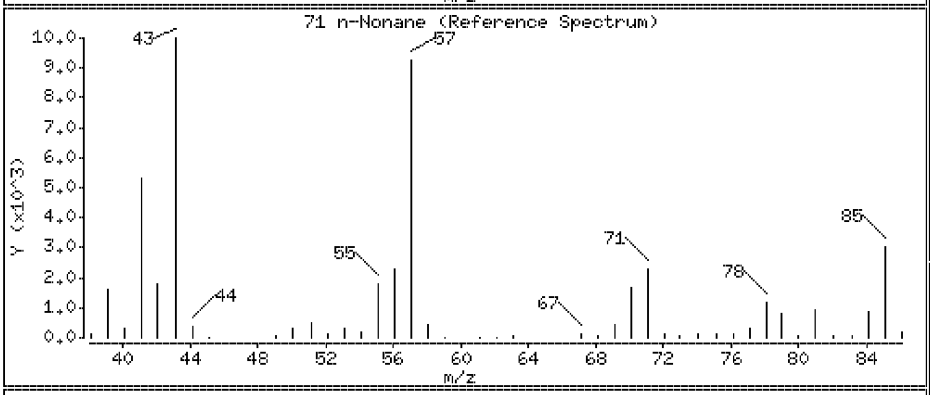
Column diameter: 0.32

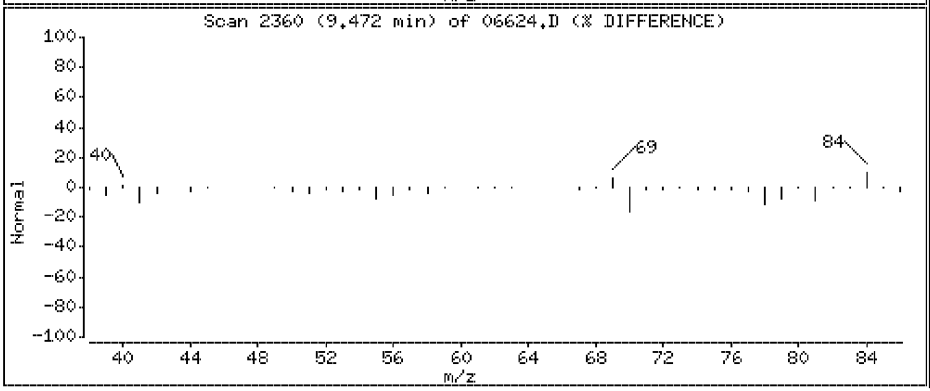
71 n-Nonane

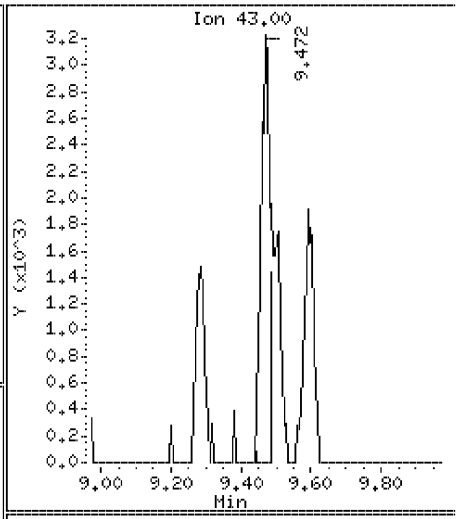
Concentration: 0.400 ppbv

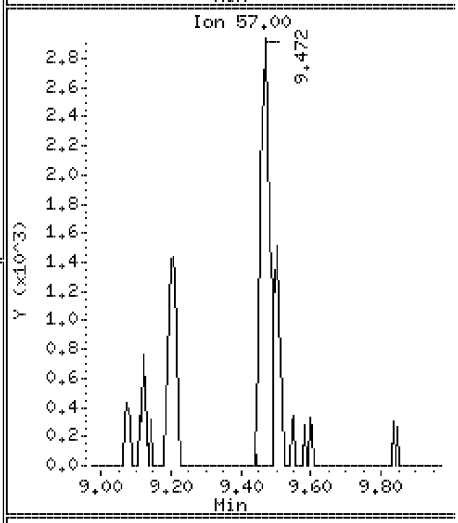


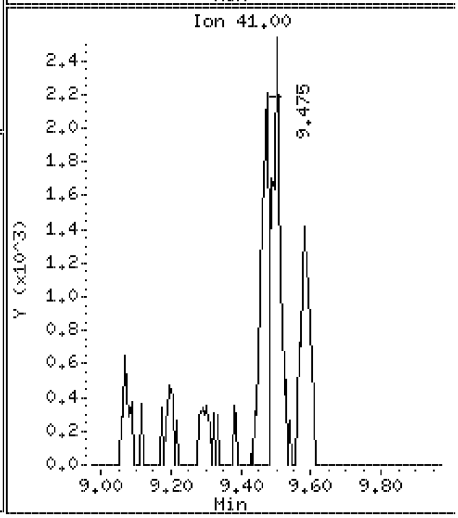












Data File: \\192.168.10.12\chem\10airB.i\030717.b\06624.D

Date : 07-MAR-2017 19:37

Client ID:

Instrument: 10airB.i

Sample Info:

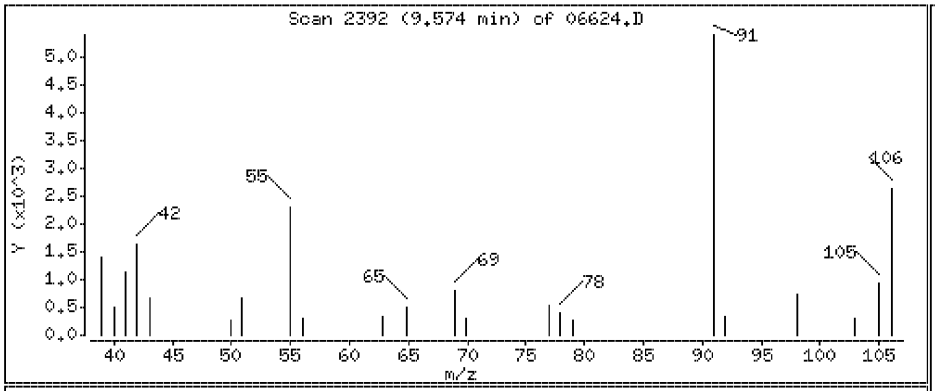
Operator: NCK

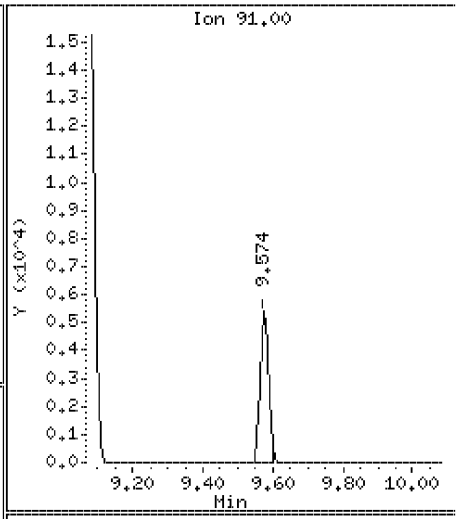
Column phase: J&W DB-5

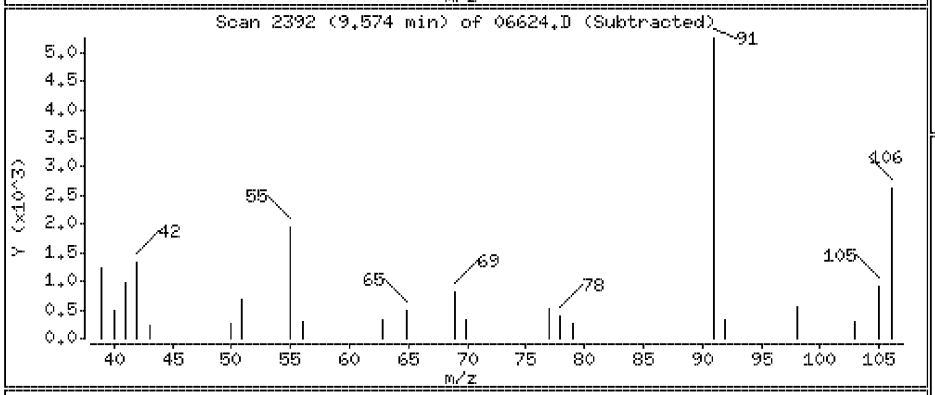
Column diameter: 0.32

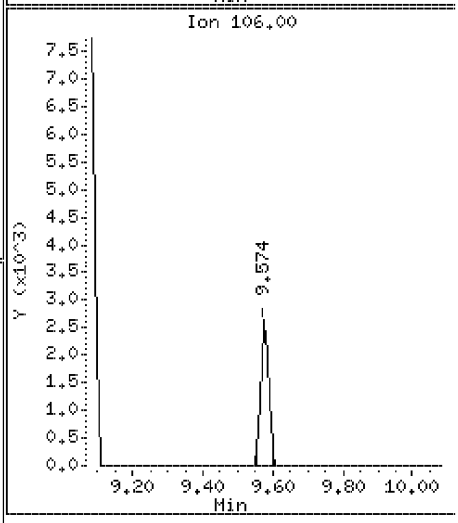
74 o-Xylene

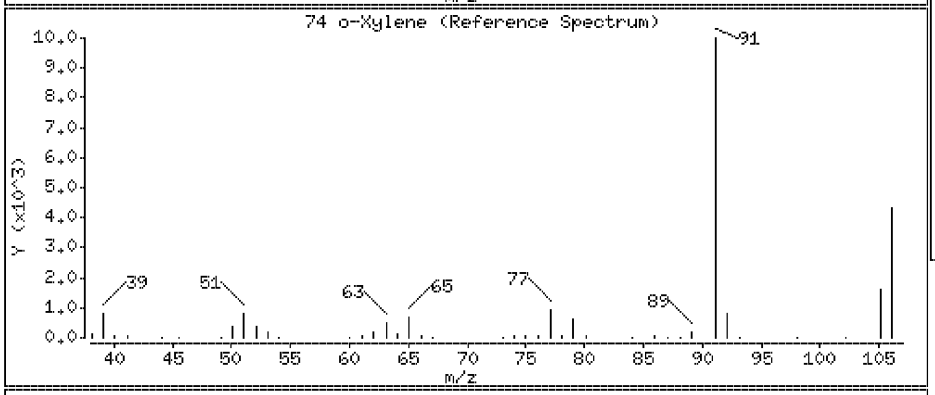
Concentration: 0.308 ppbv

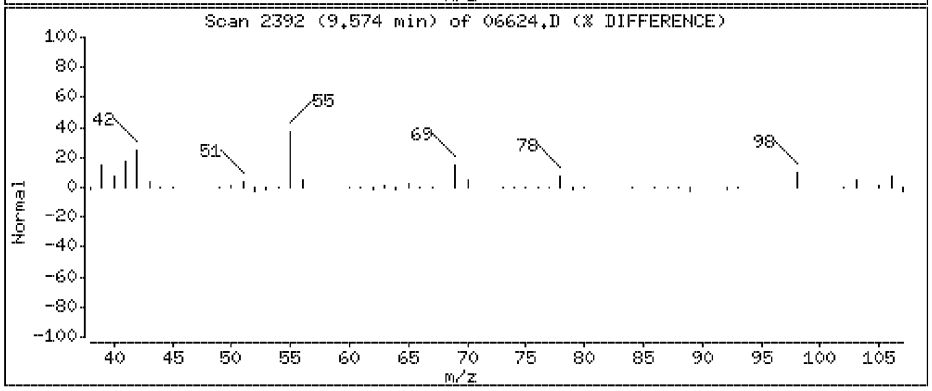






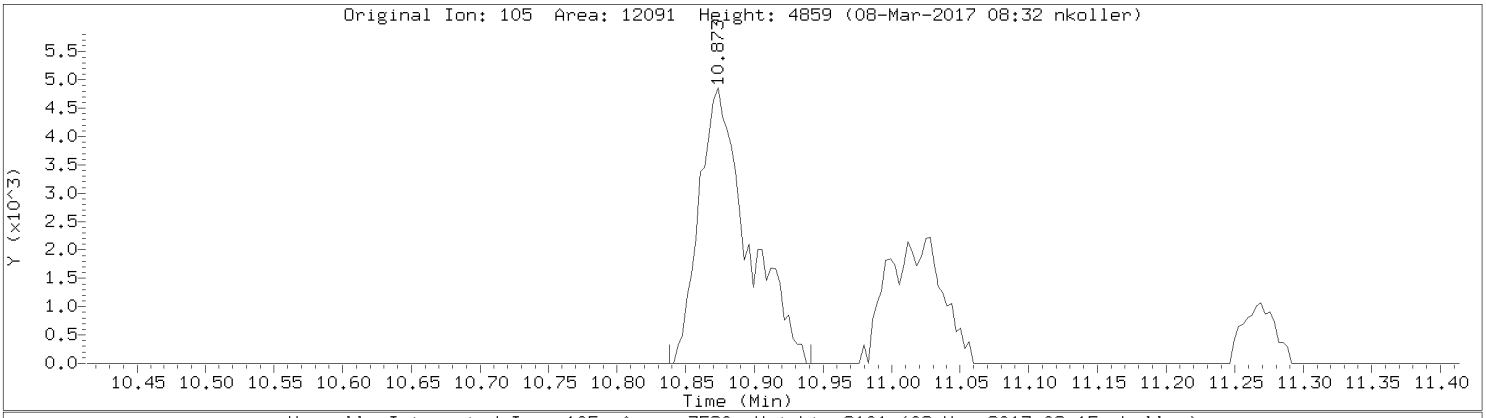


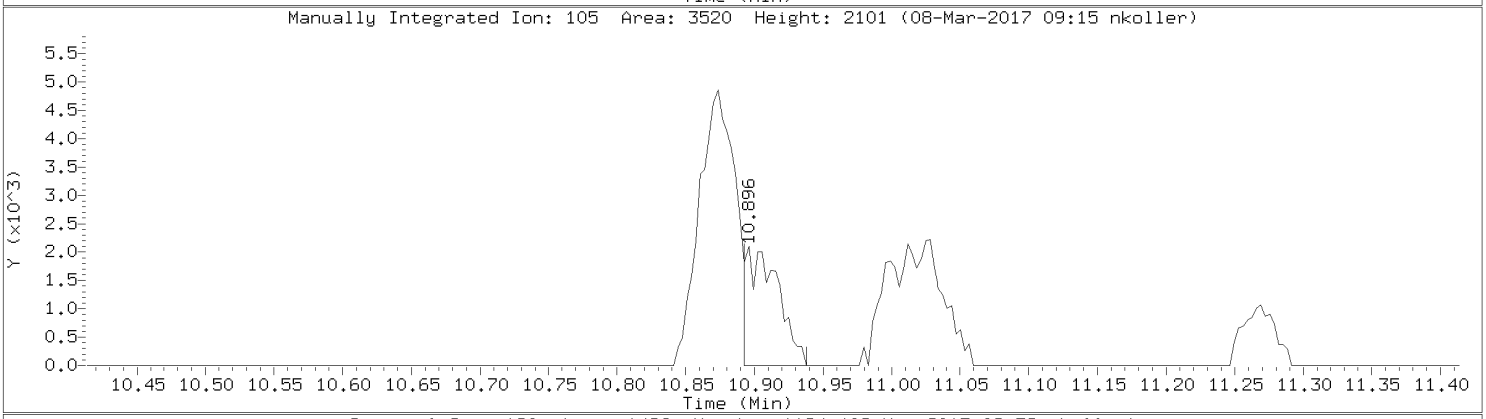


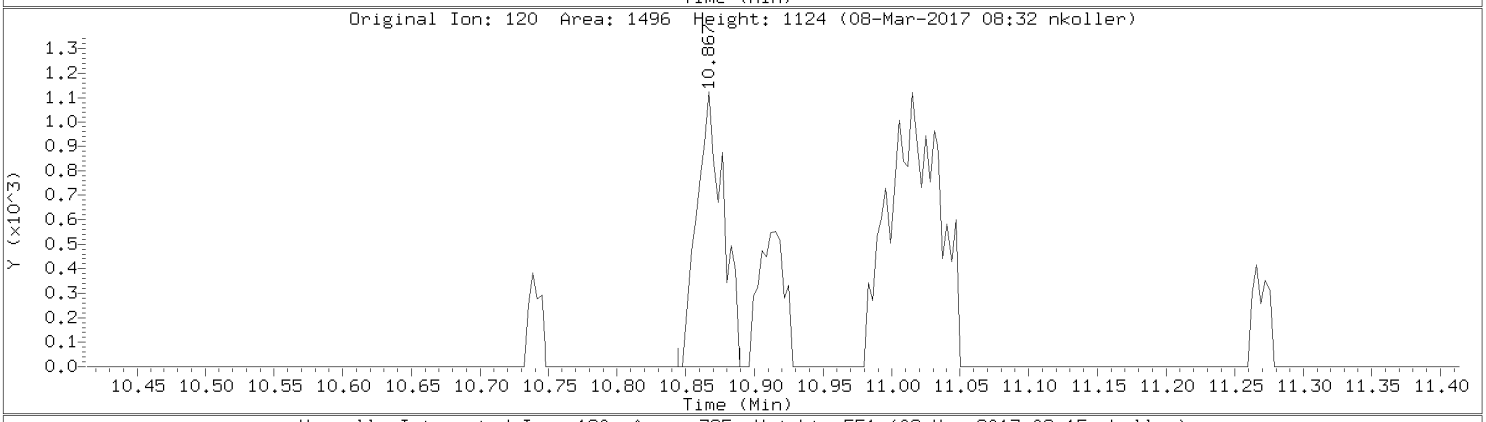


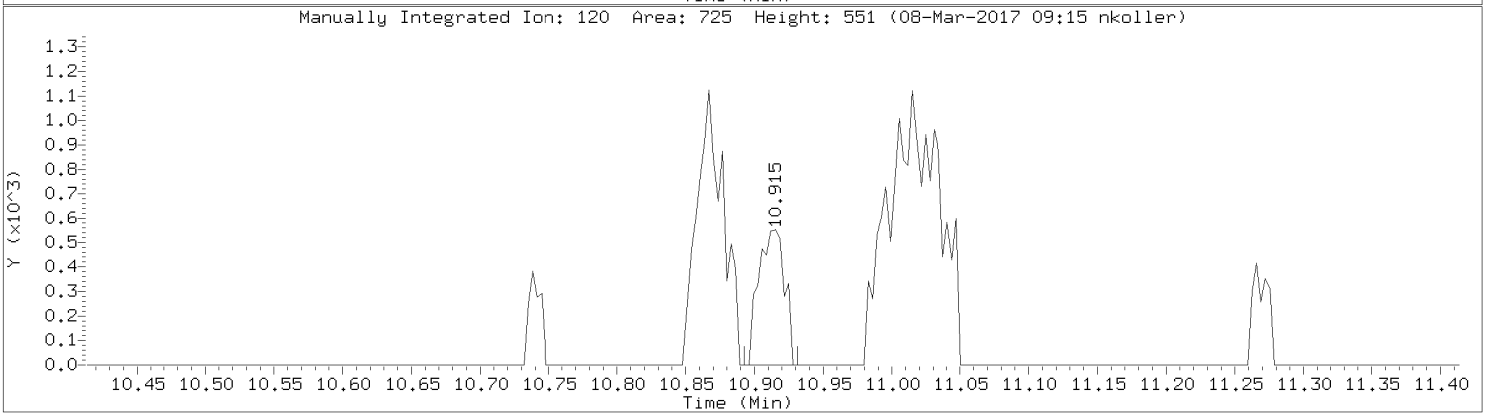
Data File: \\192.168.10.12\chem\10airB.i\030717.b/06624.D
Injection Date: 07-MAR-2017 19:37
Instrument: 10airB.i
Lab Sample ID: 10380193015

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

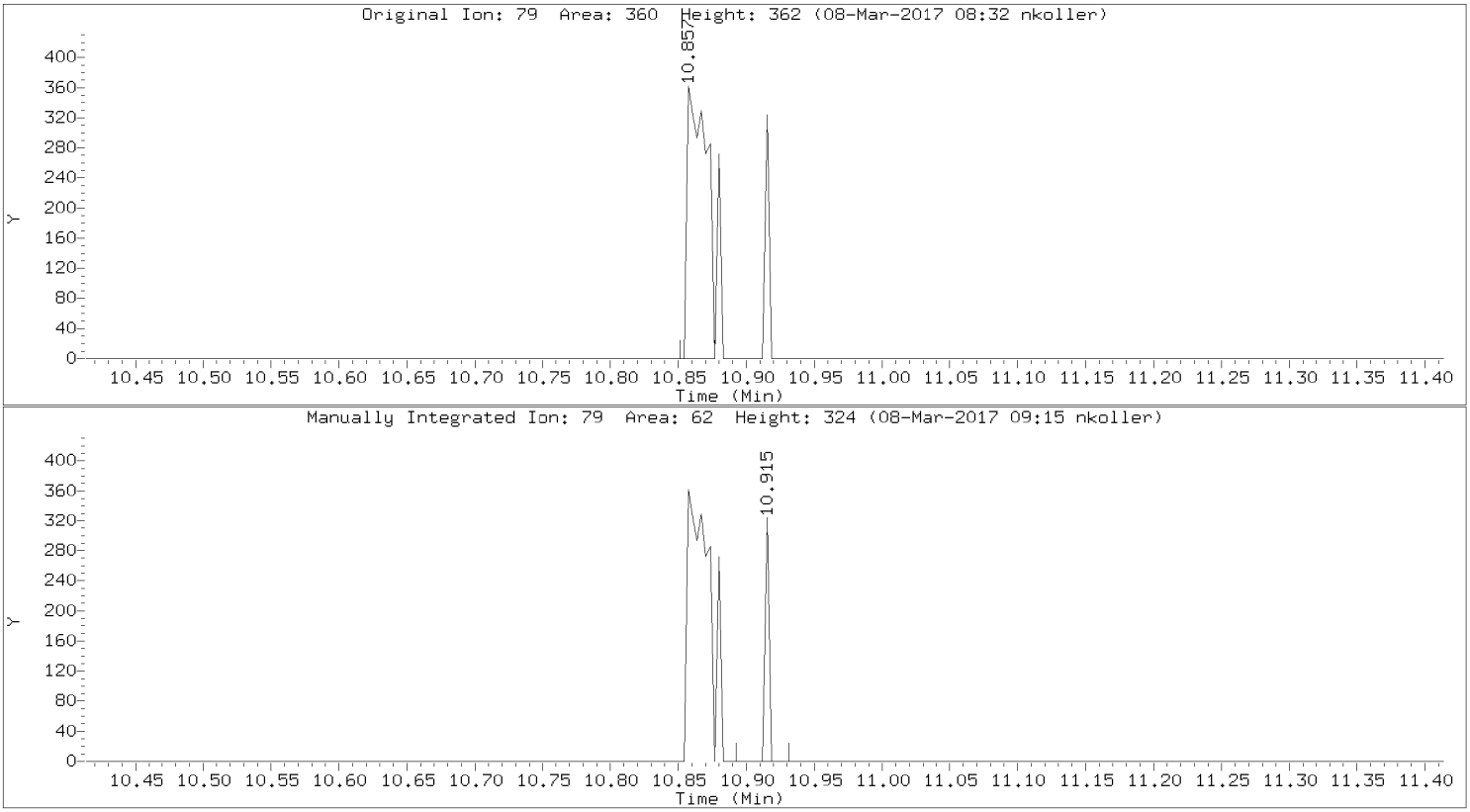








Data File: \\192.168.10.12\chem\10airB.i\030717.b/06624.D
Injection Date: 07-MAR-2017 19:37
Instrument: 10airB.i
Lab Sample ID: 10380193015



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_20_20170223 **Lab ID: 10380193015** Collected: 02/23/17 12:49 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**103**	ug/m3	1.3	0.51	1.83		03/07/17 19:37	127-18-4	
Toluene	**7.9**	ug/m3	1.4	0.28	1.83		03/07/17 19:37	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/07/17 19:37	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/07/17 19:37	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/07/17 19:37	79-00-5	
Trichloroethene	**170**	ug/m3	1.0	0.51	1.83		03/07/17 19:37	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.1	0.24	1.83		03/07/17 19:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.2**	ug/m3	2.9	0.55	1.83		03/07/17 19:37	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.8	0.23	1.83		03/07/17 19:37	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/07/17 19:37	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/07/17 19:37	75-01-4	
m&p-Xylene	**5.5**	ug/m3	3.2	1.4	1.83		03/07/17 19:37	179601-23-1	
o-Xylene	**1.4J**	ug/m3	1.6	0.64	1.83		03/07/17 19:37	95-47-6	

Sample: VP-105_50_20170223 **Lab ID: 10380193016** Collected: 02/23/17 12:50 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<15.2**	ug/m3	44.2	15.2	18.3		03/07/17 02:27	67-64-1	
Allyl chloride	**<4.2**	ug/m3	29.1	4.2	18.3		03/07/17 02:27	107-05-1	
Benzene	**8.5**	ug/m3	5.9	2.2	18.3		03/07/17 02:27	71-43-2	
Bromodichloromethane	**<3.6**	ug/m3	24.9	3.6	18.3		03/07/17 02:27	75-27-4	
Bromoform	**<16.5**	ug/m3	38.4	16.5	18.3		03/07/17 02:27	75-25-2	
Bromomethane	**<5.7**	ug/m3	14.5	5.7	18.3		03/07/17 02:27	74-83-9	
1,3-Butadiene	**<3.2**	ug/m3	8.2	3.2	18.3		03/07/17 02:27	106-99-0	
2-Butanone (MEK)	**<4.2**	ug/m3	54.9	4.2	18.3		03/07/17 02:27	78-93-3	
Carbon disulfide	**<1.8**	ug/m3	11.5	1.8	18.3		03/07/17 02:27	75-15-0	
Carbon tetrachloride	**<3.5**	ug/m3	11.7	3.5	18.3		03/07/17 02:27	56-23-5	
Chlorobenzene	**<2.5**	ug/m3	17.2	2.5	18.3		03/07/17 02:27	108-90-7	
Chlorodifluoromethane	**160**	ug/m3	13.2	5.1	18.3		03/07/17 02:27	75-45-6	
Chloroethane	**<3.6**	ug/m3	9.9	3.6	18.3		03/07/17 02:27	75-00-3	
Chloroform	**25.4**	ug/m3	9.1	3.5	18.3		03/07/17 02:27	67-66-3	
Chloromethane	**<2.0**	ug/m3	7.7	2.0	18.3		03/07/17 02:27	74-87-3	
Chloropentafluoroethane	**<58.7**	ug/m3	58.7	58.7	18.3		03/07/17 02:27	76-15-3	CH
Cyclohexane	**<5.8**	ug/m3	12.8	5.8	18.3		03/07/17 02:27	110-82-7	
1,2-Dibromo-3-chloropropane	**<89.9**	ug/m3	89.9	89.9	18.3		03/07/17 02:27	96-12-8	
Dibromochloromethane	**<15.7**	ug/m3	31.7	15.7	18.3		03/07/17 02:27	124-48-1	
1,2-Dibromoethane (EDB)	**<14.2**	ug/m3	28.5	14.2	18.3		03/07/17 02:27	106-93-4	
1,2-Dichlorobenzene	**<9.4**	ug/m3	22.3	9.4	18.3		03/07/17 02:27	95-50-1	
1,3-Dichlorobenzene	**<9.7**	ug/m3	22.3	9.7	18.3		03/07/17 02:27	541-73-1	
1,4-Dichlorobenzene	**<9.1**	ug/m3	22.3	9.1	18.3		03/07/17 02:27	106-46-7	
Dichlorodifluoromethane	**<8.8**	ug/m3	18.5	8.8	18.3		03/07/17 02:27	75-71-8	
1,1-Dichloroethane	**<2.9**	ug/m3	15.0	2.9	18.3		03/07/17 02:27	75-34-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_50_20170223 **Lab ID: 10380193016** Collected: 02/23/17 12:50 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichloroethane	**<3.8**	ug/m3	7.5	3.8	18.3		03/07/17 02:27	107-06-2	
1,1-Dichloroethene	**9.0J**	ug/m3	14.8	4.4	18.3		03/07/17 02:27	75-35-4	
cis-1,2-Dichloroethene	**2010**	ug/m3	14.8	4.5	18.3		03/07/17 02:27	156-59-2	
trans-1,2-Dichloroethene	**19.8**	ug/m3	14.8	7.0	18.3		03/07/17 02:27	156-60-5	
1,2-Dichloropropane	**<4.9**	ug/m3	17.2	4.9	18.3		03/07/17 02:27	78-87-5	
cis-1,3-Dichloropropene	**<6.8**	ug/m3	16.8	6.8	18.3		03/07/17 02:27	10061-01-5	
trans-1,3-Dichloropropene	**<4.8**	ug/m3	16.8	4.8	18.3		03/07/17 02:27	10061-02-6	
Dichlorotetrafluoroethane	**<5.7**	ug/m3	26.0	5.7	18.3		03/07/17 02:27	76-14-2	
Freon 123	**<58.2**	ug/m3	58.2	58.2	18.3		03/07/17 02:27	306-83-2	
1,4-Dioxane (p-Dioxane)	**<6.4**	ug/m3	67.0	6.4	18.3		03/07/17 02:27	123-91-1	
Ethylbenzene	**<7.8**	ug/m3	16.1	7.8	18.3		03/07/17 02:27	100-41-4	
4-Ethyltoluene	**<3.4**	ug/m3	18.3	3.4	18.3		03/07/17 02:27	622-96-8	
Hexachloro-1,3-butadiene	**<11.9**	ug/m3	39.7	11.9	18.3		03/07/17 02:27	87-68-3	
n-Hexane	**<6.5**	ug/m3	13.2	6.5	18.3		03/07/17 02:27	110-54-3	
2-Hexanone	**<7.5**	ug/m3	76.2	7.5	18.3		03/07/17 02:27	591-78-6	
Isopropylbenzene (Cumene)	**<2.5**	ug/m3	45.8	2.5	18.3		03/07/17 02:27	98-82-8	
Methyl acetate	**<28.2**	ug/m3	28.2	28.2	18.3		03/07/17 02:27	79-20-9	
Methylcyclohexane	**<4.4**	ug/m3	14.9	4.4	18.3		03/07/17 02:27	108-87-2	
Methylene Chloride	**<9.9**	ug/m3	64.6	9.9	18.3		03/07/17 02:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<4.0**	ug/m3	76.2	4.0	18.3		03/07/17 02:27	108-10-1	
Methyl-tert-butyl ether	**<5.5**	ug/m3	67.1	5.5	18.3		03/07/17 02:27	1634-04-4	
2-Propanol	**<4.4**	ug/m3	45.8	4.4	18.3		03/07/17 02:27	67-63-0	
Styrene	**<3.5**	ug/m3	15.9	3.5	18.3		03/07/17 02:27	100-42-5	
1,1,2,2-Tetrachloroethane	**<6.0**	ug/m3	12.8	6.0	18.3		03/07/17 02:27	79-34-5	
Tetrachloroethene	**1880**	ug/m3	12.6	5.1	18.3		03/07/17 02:27	127-18-4	
Toluene	**119**	ug/m3	14.1	2.8	18.3		03/07/17 02:27	108-88-3	
1,2,4-Trichlorobenzene	**<16.6**	ug/m3	69.0	16.6	18.3		03/07/17 02:27	120-82-1	
1,1,1-Trichloroethane	**<4.5**	ug/m3	20.3	4.5	18.3		03/07/17 02:27	71-55-6	
1,1,2-Trichloroethane	**<4.5**	ug/m3	10.1	4.5	18.3		03/07/17 02:27	79-00-5	
Trichloroethene	**12200**	ug/m3	10.1	5.1	18.3		03/07/17 02:27	79-01-6	
Trichloroethene	**34500**	ug/m3	322	162	585.6		03/07/17 15:42	79-01-6	A3
Trichlorofluoromethane	**32.1**	ug/m3	20.9	2.4	18.3		03/07/17 02:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	**398**	ug/m3	29.3	5.5	18.3		03/07/17 02:27	76-13-1	
1,2,4-Trimethylbenzene	**<2.3**	ug/m3	18.3	2.3	18.3		03/07/17 02:27	95-63-6	
1,3,5-Trimethylbenzene	**<3.3**	ug/m3	18.3	3.3	18.3		03/07/17 02:27	108-67-8	
Vinyl chloride	**<3.6**	ug/m3	4.8	3.6	18.3		03/07/17 02:27	75-01-4	
m&p-Xylene	**<14.4**	ug/m3	32.4	14.4	18.3		03/07/17 02:27	179601-23-1	
o-Xylene	**<6.4**	ug/m3	16.1	6.4	18.3		03/07/17 02:27	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D
Report Date: 07-Mar-2017 10:41

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06536.D
Lab Smp Id: 10380193016
Inj Date : 07-MAR-2017 02:27
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27846
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 09:17 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 36
Dil Factor: 18.30000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	18.300	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	3.053	2.950	(0.545)	3418	0.44662	8.17(QMH)	
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.021	3.031	(0.539)	9748	2.43732	44.6(QM)	
4	Propylene	41	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.552	3.545	(0.634)	3925	0.76017	13.9	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.655	3.677	(0.652)	11851	0.30762	5.63	
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.886	3.912	(0.693)	2748	0.12265	2.24	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.934	3.954	(0.702)	81127	2.78863	51.0	
23	Methyl Acetate	43	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D
Report Date: 07-Mar-2017 10:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	4.249	4.278	(0.758)	3368	0.26791	4.90	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.800)	384425	8.59870	8.60	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.706	4.725	(0.839)	383202	27.2825	499(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.815	4.841	(0.859)	8133	0.27937	5.11	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	43 Benzene	78	5.465	5.468	(0.975)	6454	0.14241	2.61(M)	
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.606	5.613	(1.000)	1405214	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.986	5.989	(1.068)	2882372	122.082	2230(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.073	7.079	(1.261)	1193039	9.48584	9.49	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.150	7.153	(1.275)	96400	1.69855	31.1	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.989	(0.924)	472641	14.8679	272	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	915487	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						
	79 1,3,5-Trimethylbenzene	105	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D
Report Date: 07-Mar-2017 10:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	80 n-Decane	57	Compound Not Detected.						
	81 Tert-Butyl Benzene	119	Compound Not Detected.						
	82 1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
	83 1,3-Dichlorobenzene	146	Compound Not Detected.						
	84 Sec- Butylbenzene	105	Compound Not Detected.						
$	85 1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.372)	452403	8.97072	8.97	
	86 Benzyl Chloride	91	Compound Not Detected.						
	87 1,4-Dichlorobenzene	146	Compound Not Detected.						
	88 p-Isopropyltoluene	119	Compound Not Detected.						
	89 1,2,3-Trimethylbenzene	105	Compound Not Detected.						
	90 1,2-Dichlorobenzene	146	Compound Not Detected.						
	91 N-Butylbenzene	91	Compound Not Detected.						
	92 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	94 Naphthalene	128	Compound Not Detected.						
	95 Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D
Report Date: 07-Mar-2017 10:41

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06536.D
Lab Smp Id: 10380193016
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27846

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

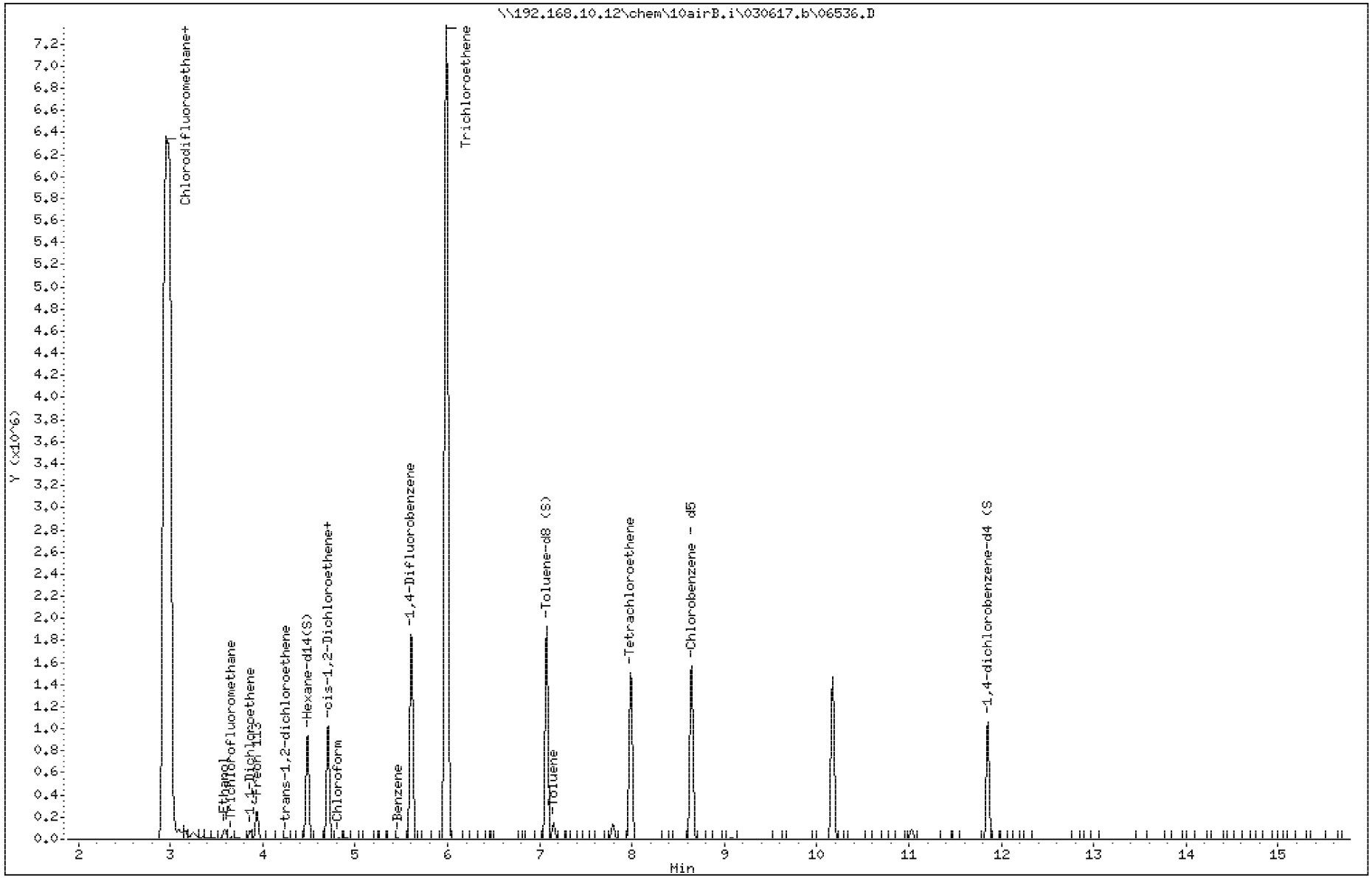
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1405214	-0.63
67 Chlorobenzene - d	951026	570616	1331436	915487	-3.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D
Date : 07-MAR-2017 02:27
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

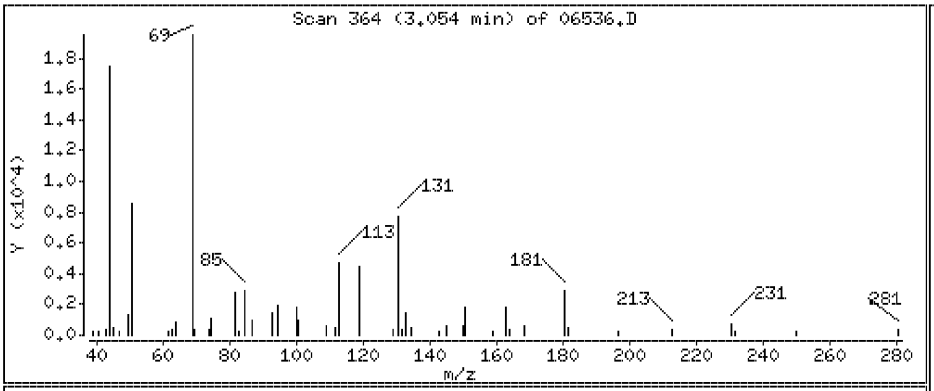
Operator: NCK

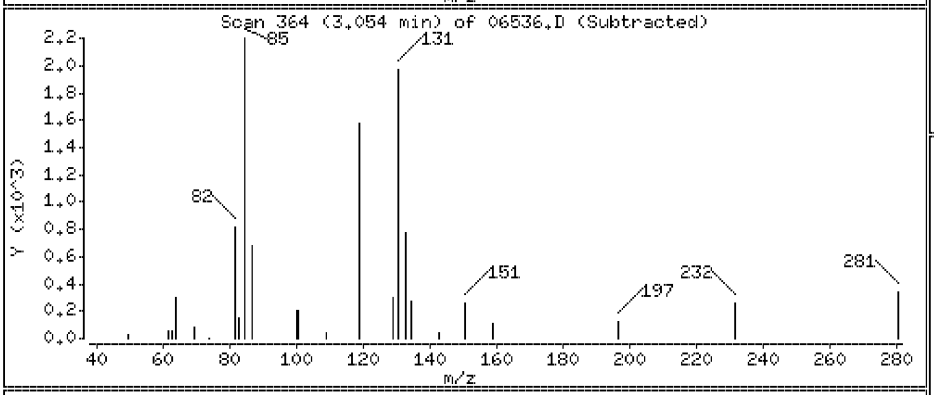
Column phase: J&W DB-5

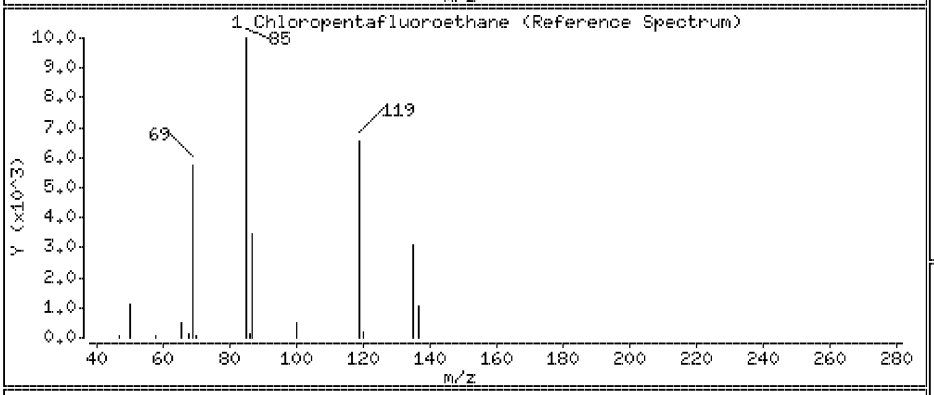
Column diameter: 0.32

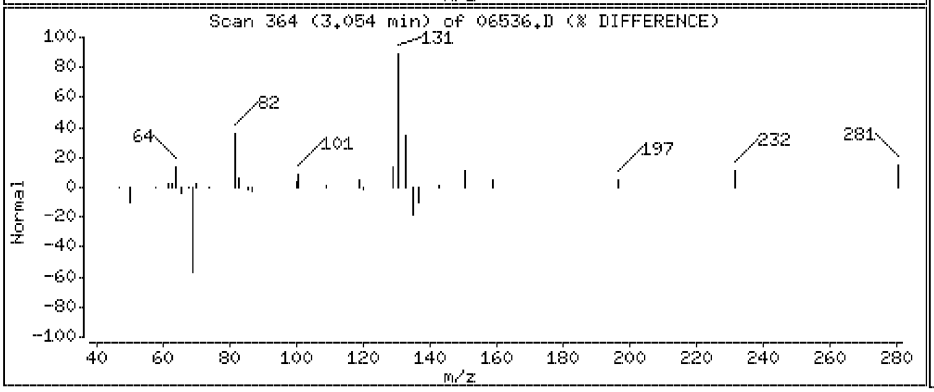
1 Chloropentafluoroethane

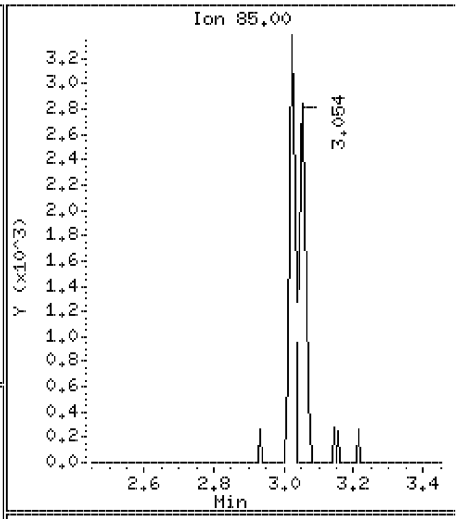
Concentration: 8.17 ppbv

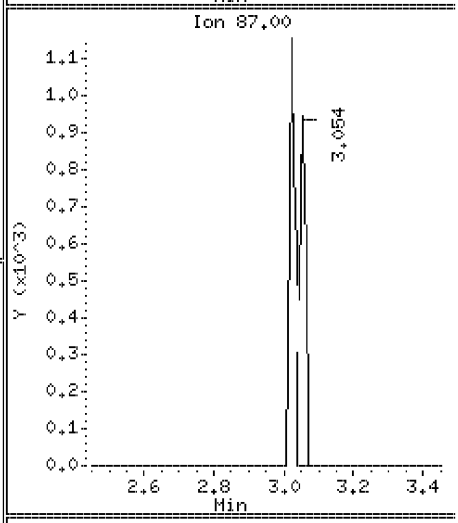


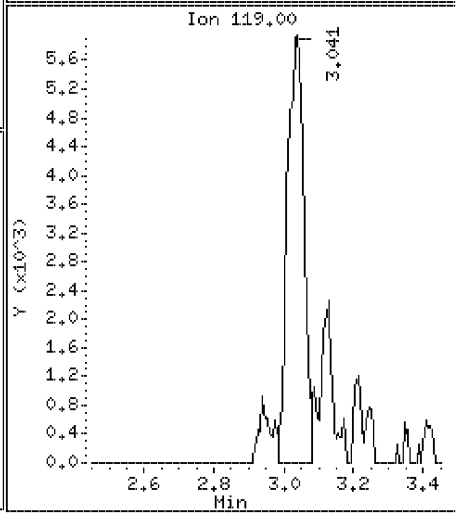












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

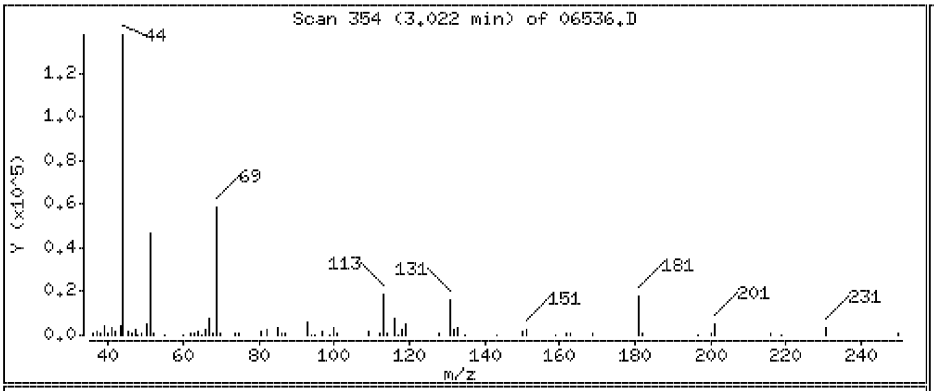
Operator: NCK

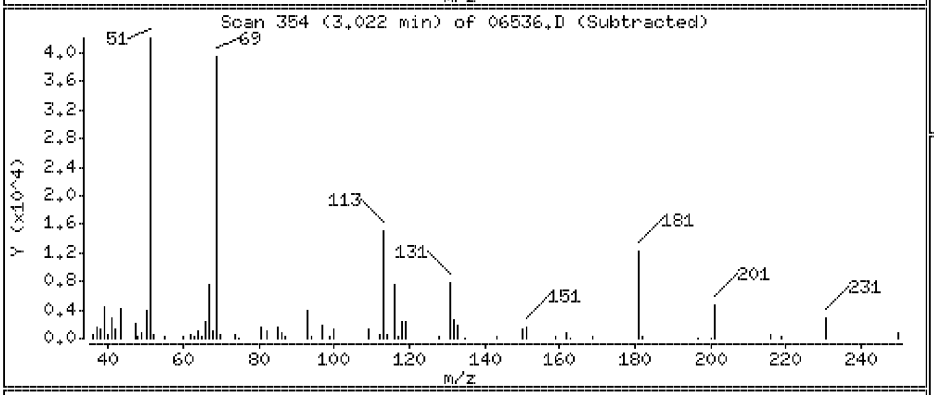
Column phase: J&W DB-5

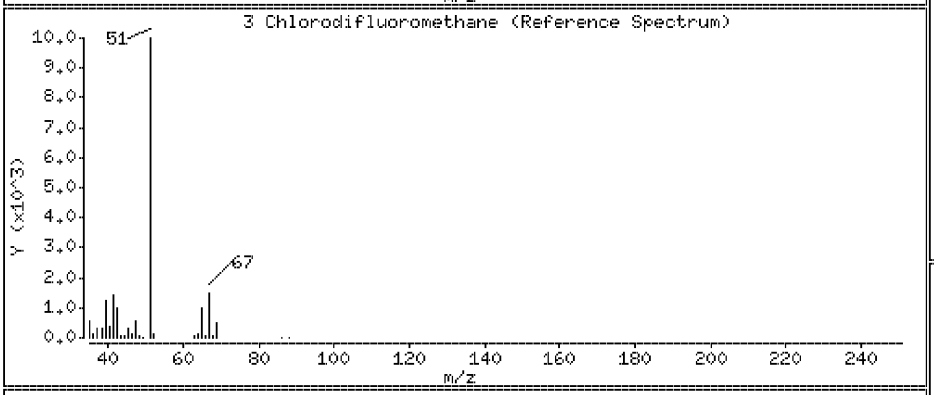
Column diameter: 0.32

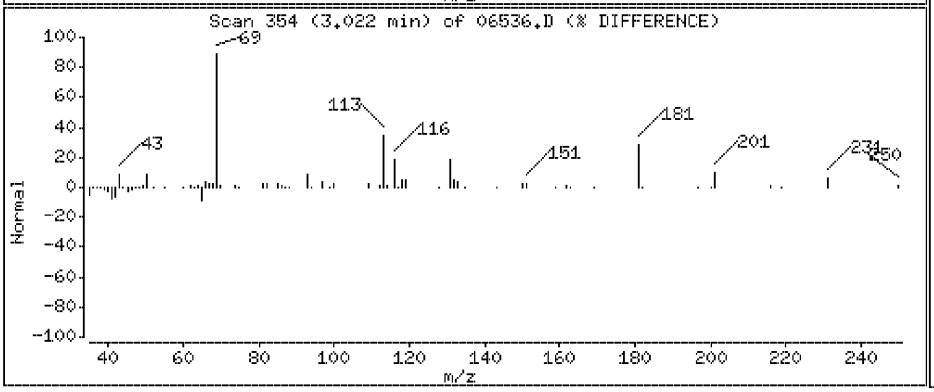
3 Chlorodifluoromethane

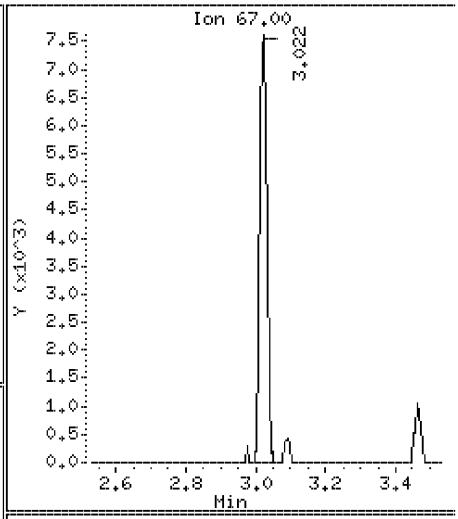
Concentration: 44.6 ppbv

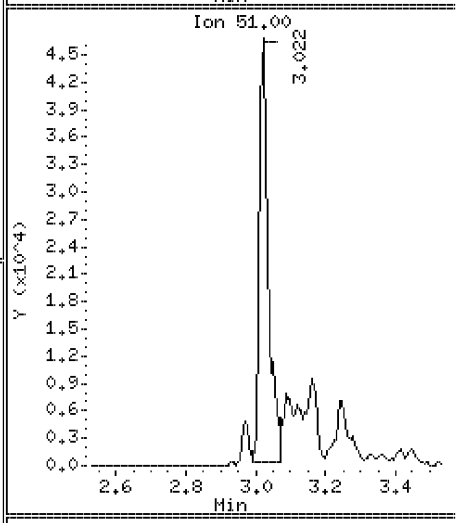


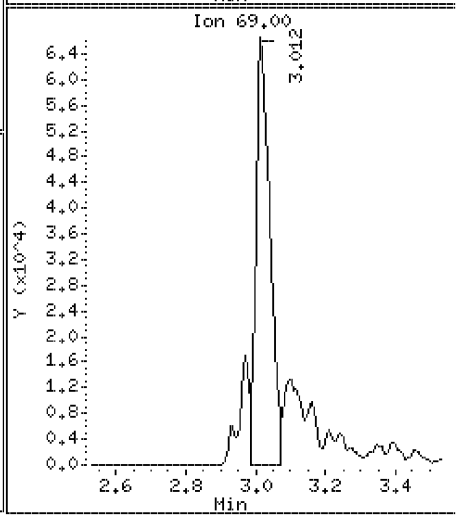












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

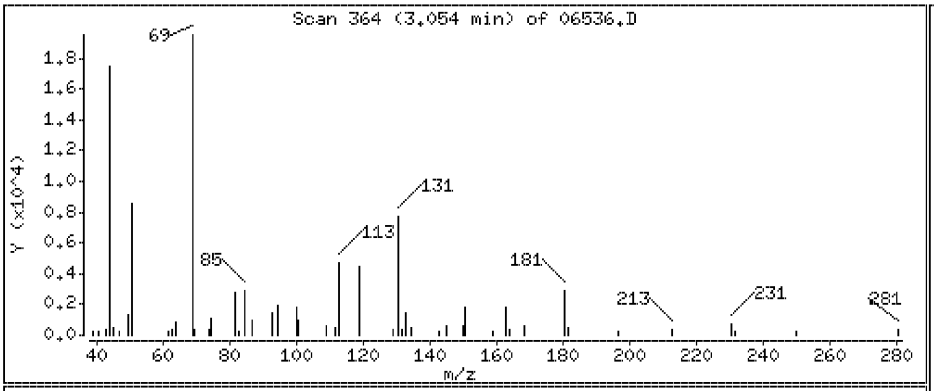
Operator: NCK

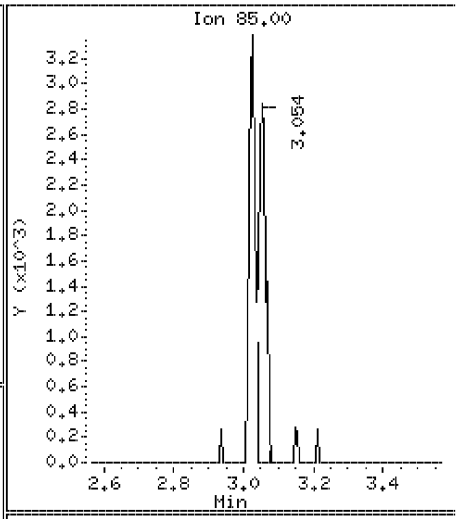
Column phase: J&W DB-5

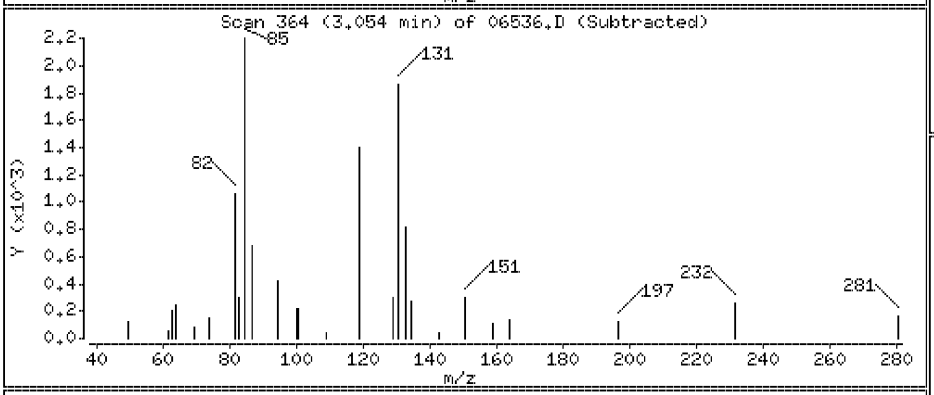
Column diameter: 0.32

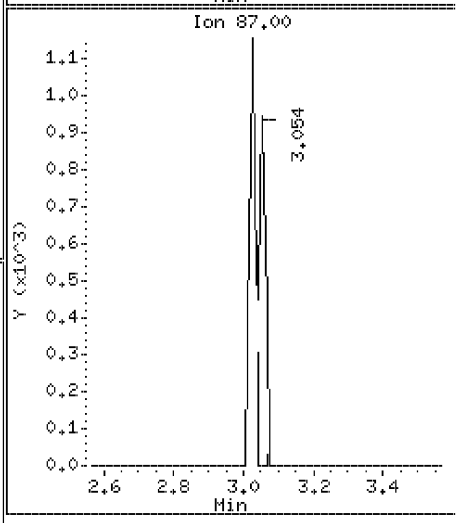
5 Dichlorodifluoromethane

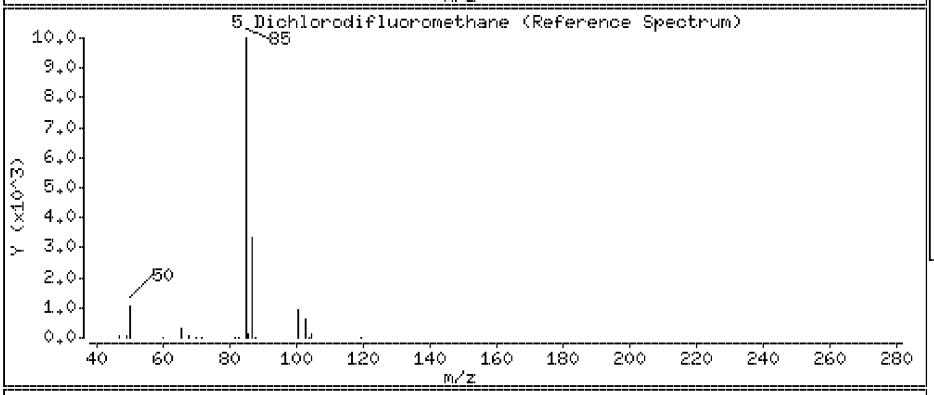
Concentration: 0.129 ppbv

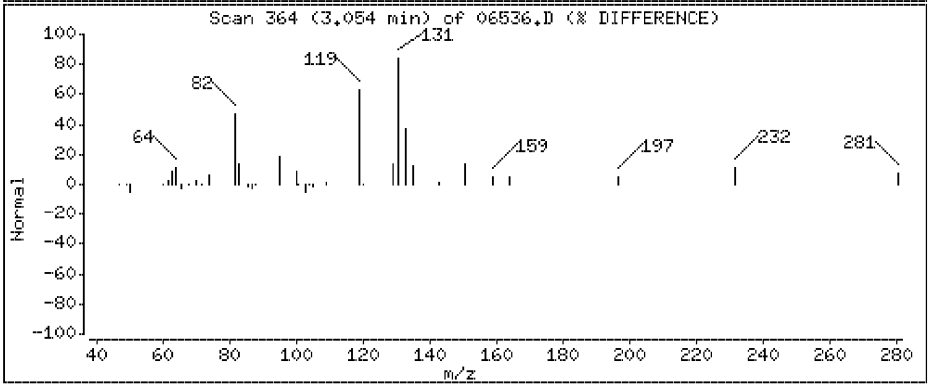












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

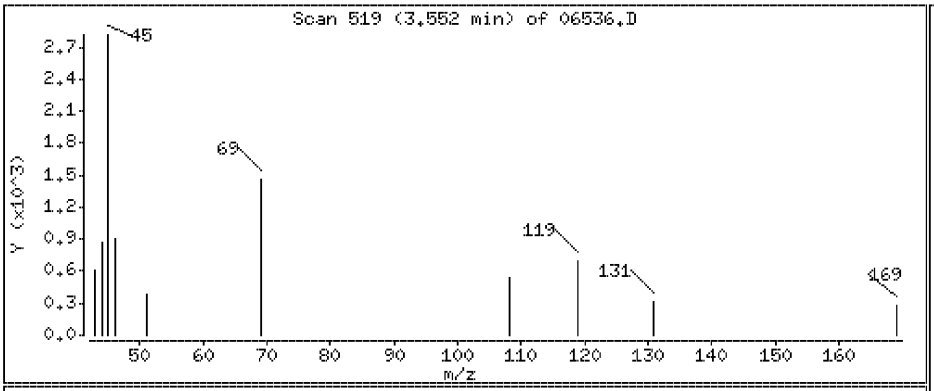
Operator: NCK

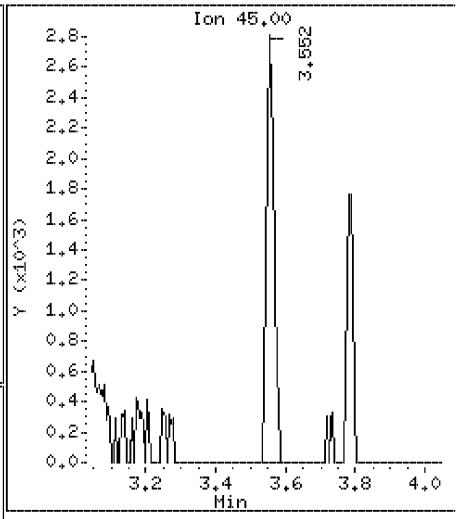
Column phase: J&W DB-5

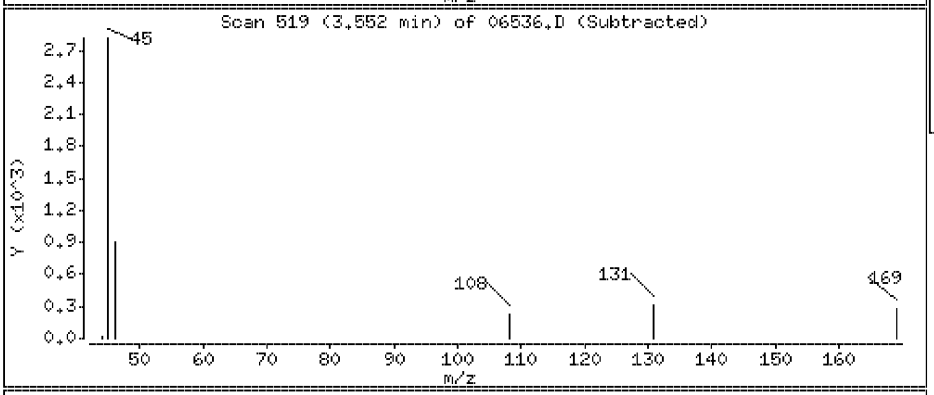
Column diameter: 0.32

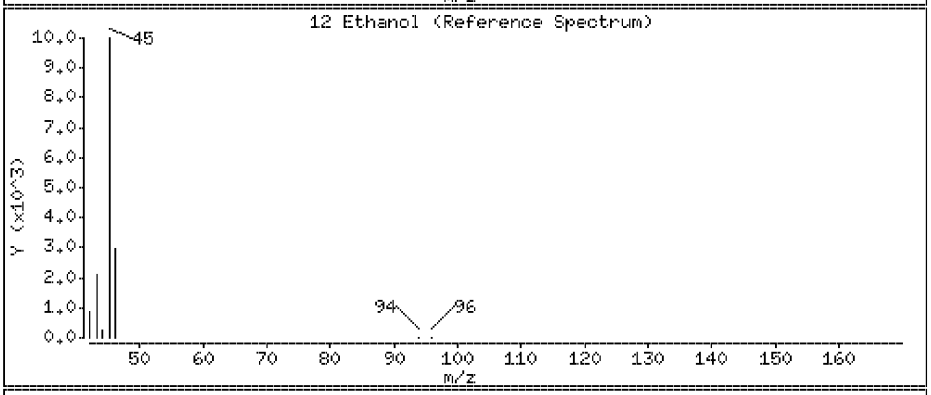
12 Ethanol

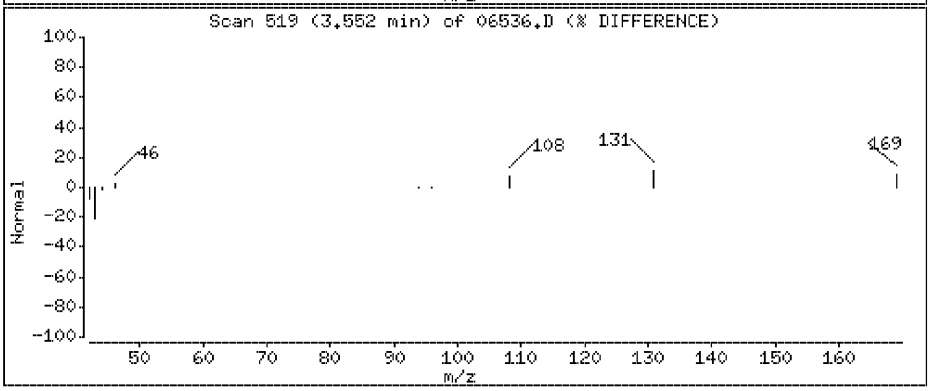
Concentration: 13.9 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

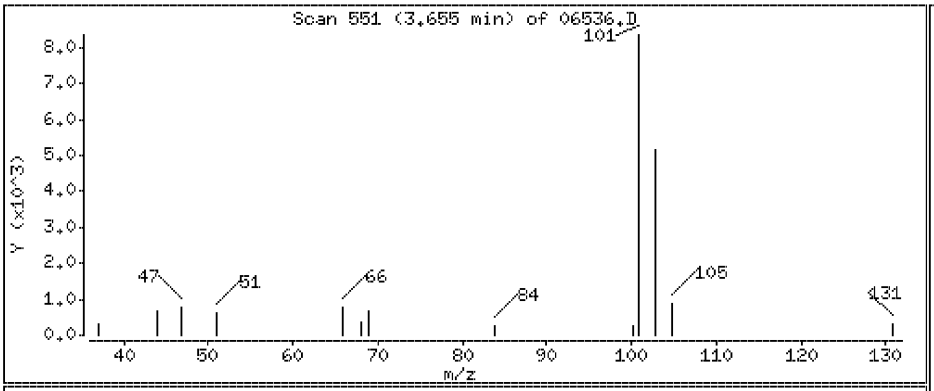
Operator: NCK

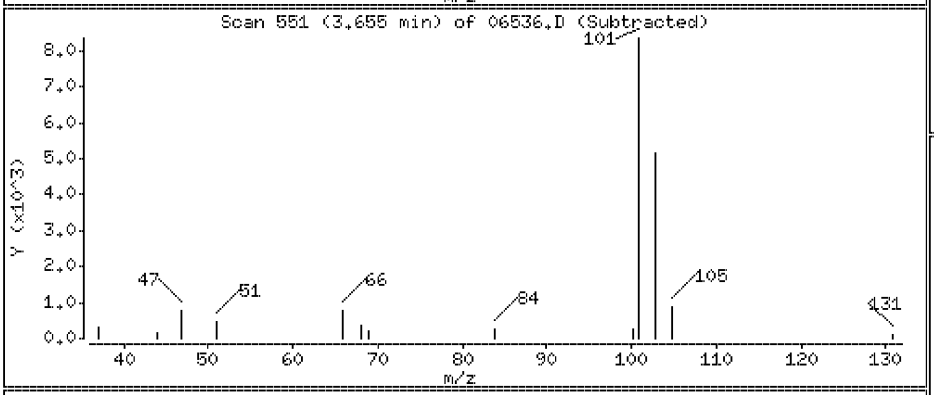
Column phase: J&W DB-5

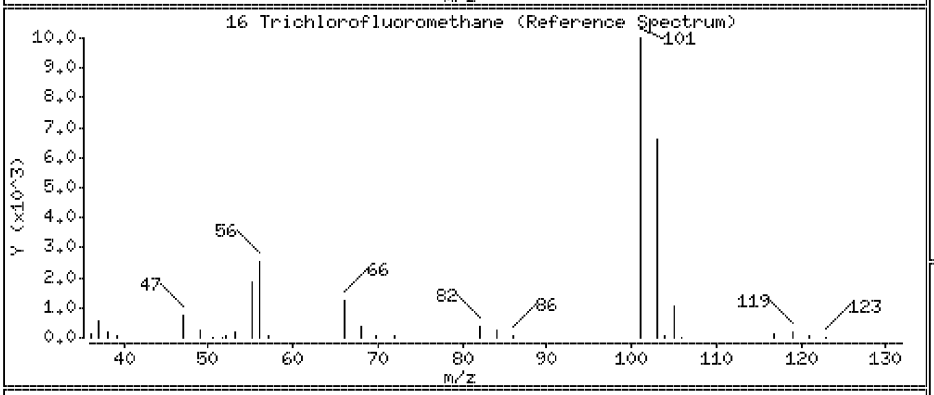
Column diameter: 0.32

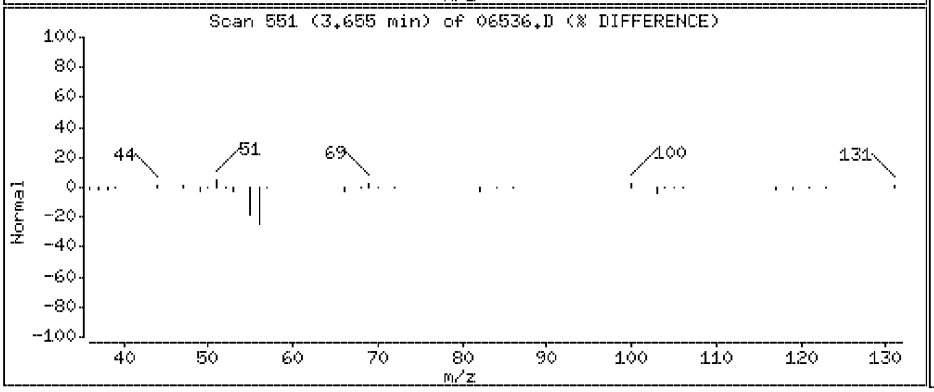
16 Trichlorofluoromethane

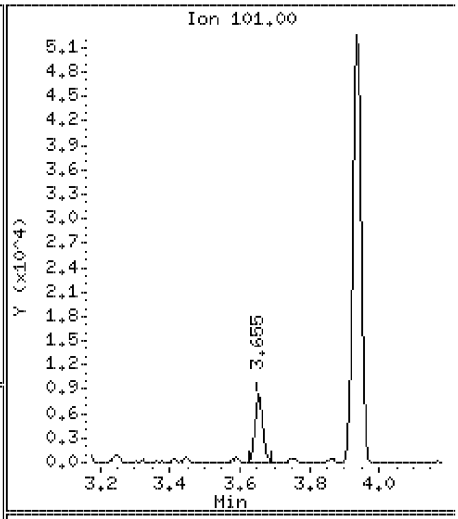
Concentration: 5.63 ppbv

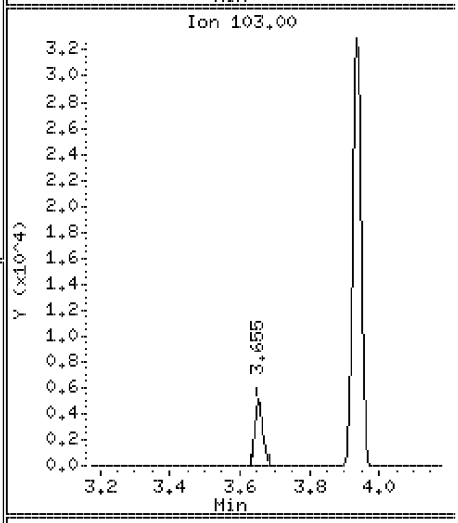


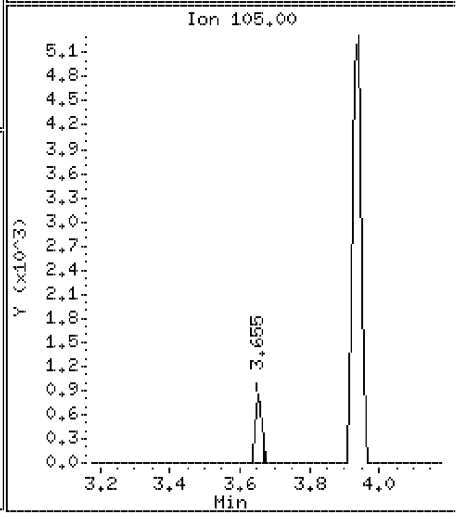












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

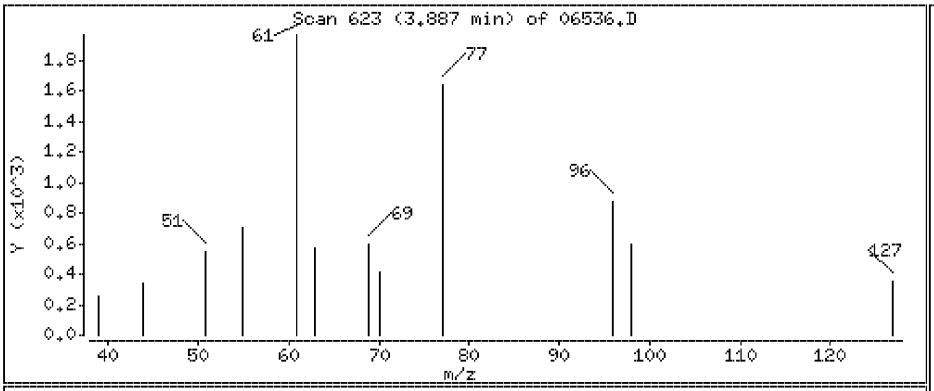
Operator: NCK

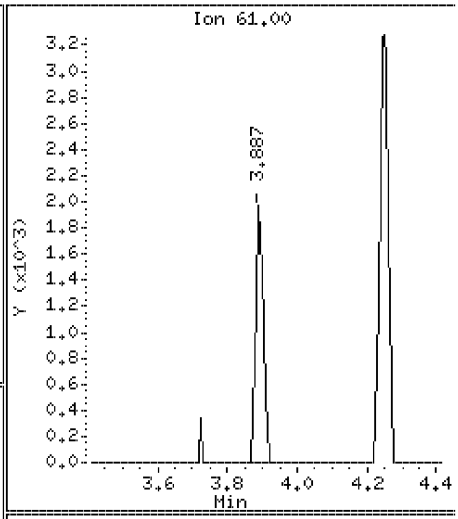
Column phase: J&W DB-5

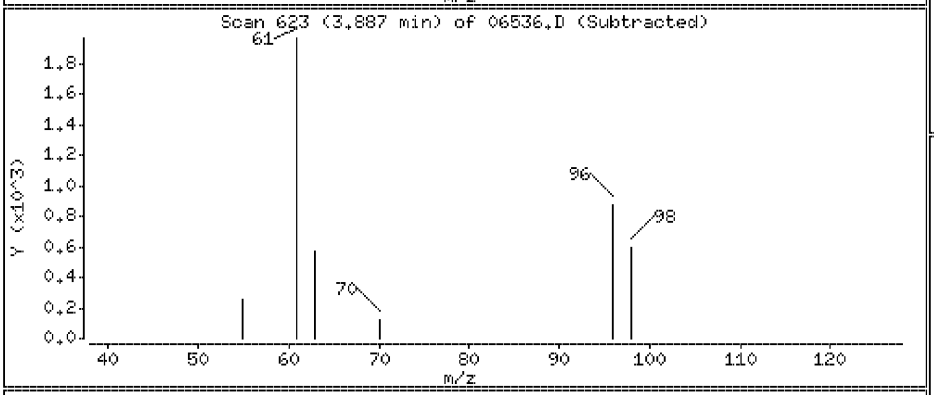
Column diameter: 0.32

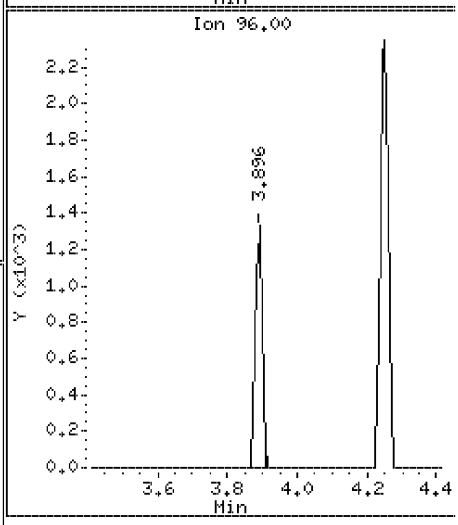
20 1,1-Dichloroethene

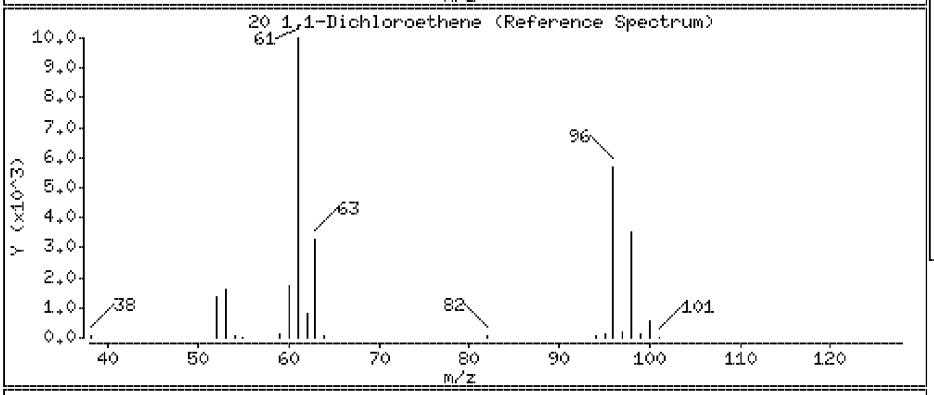
Concentration: 2.24 ppbv

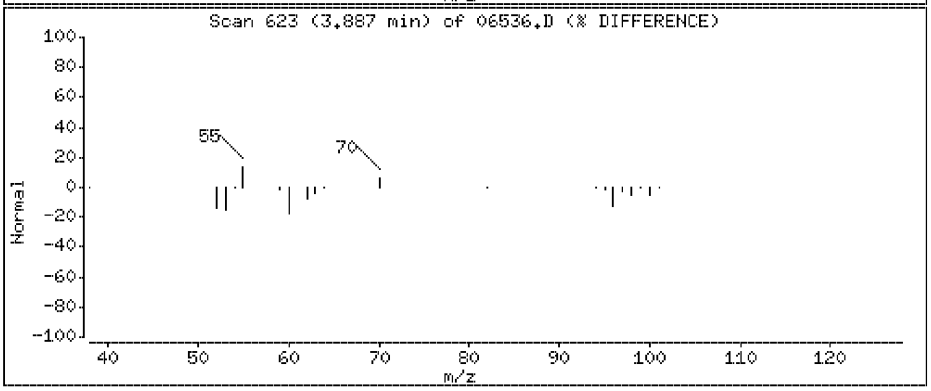












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

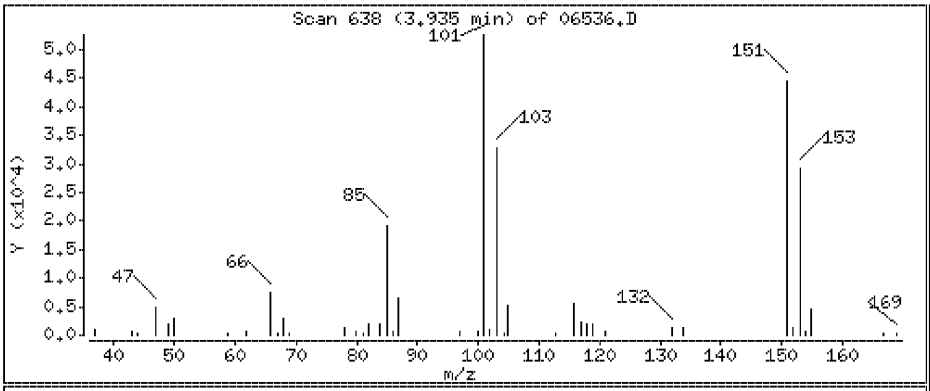
Operator: NCK

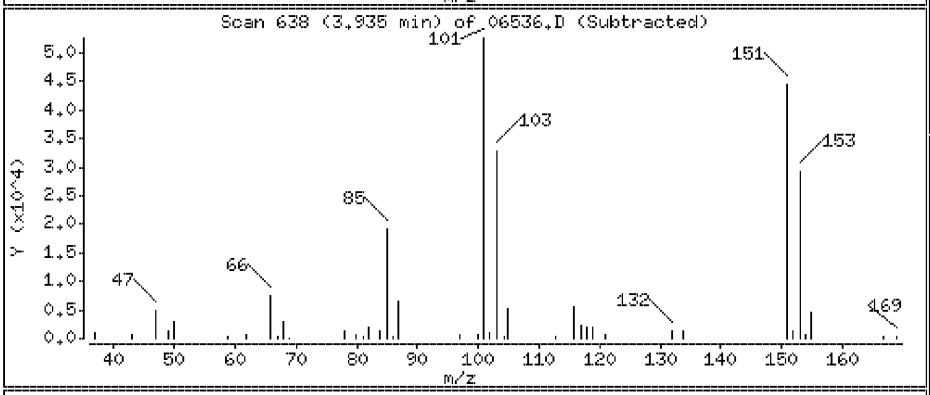
Column phase: J&W DB-5

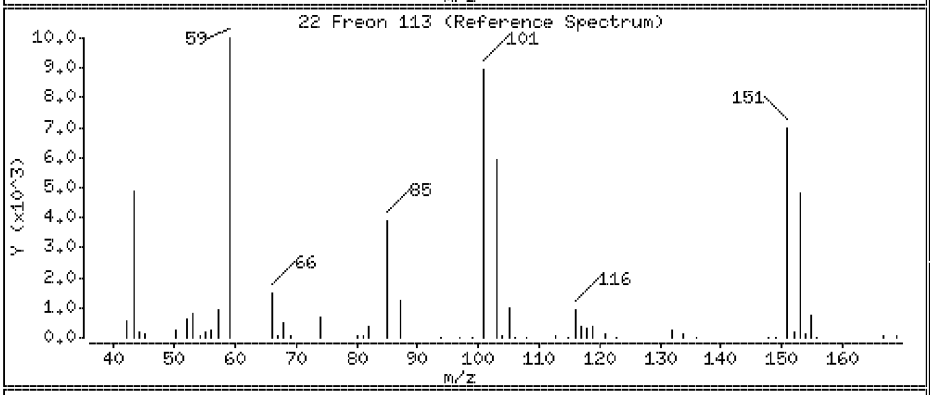
Column diameter: 0.32

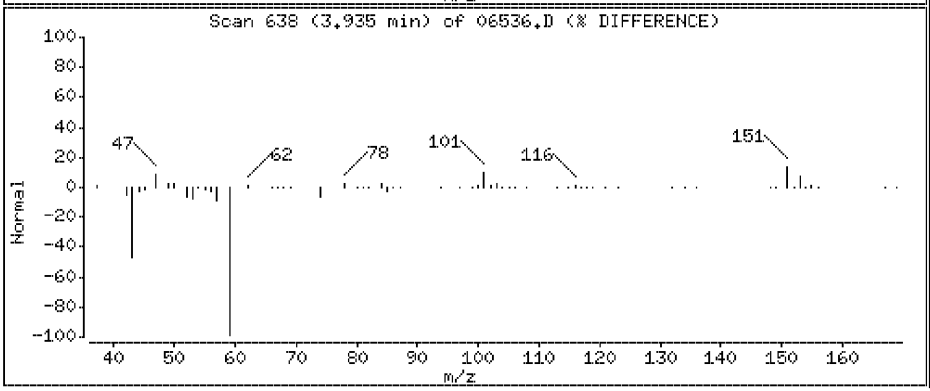
22 Freon 113

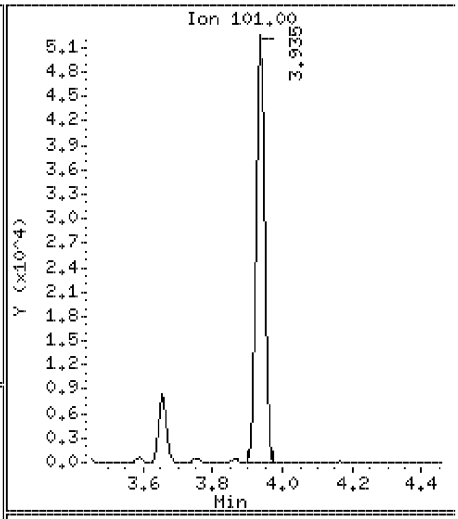
Concentration: 51.0 ppbv

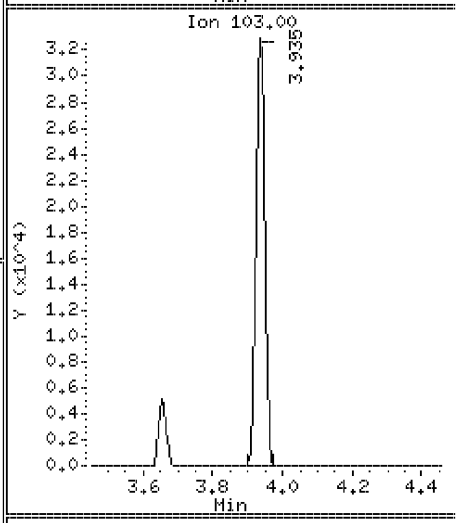


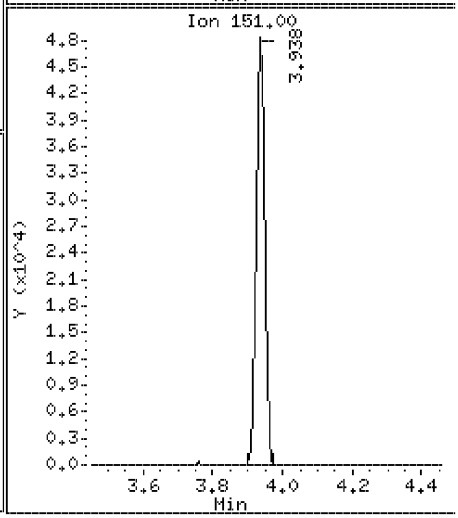












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

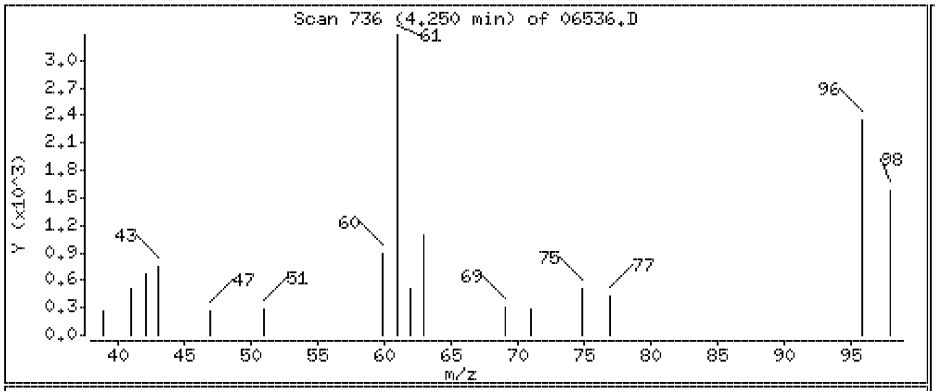
Operator: NCK

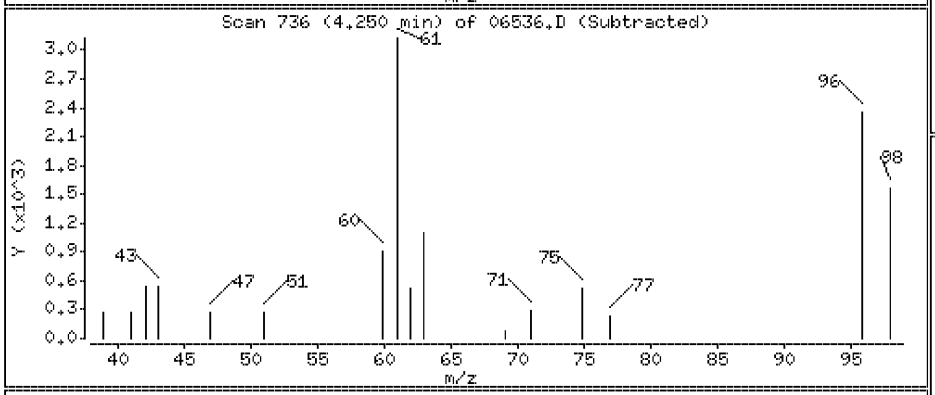
Column phase: J&W DB-5

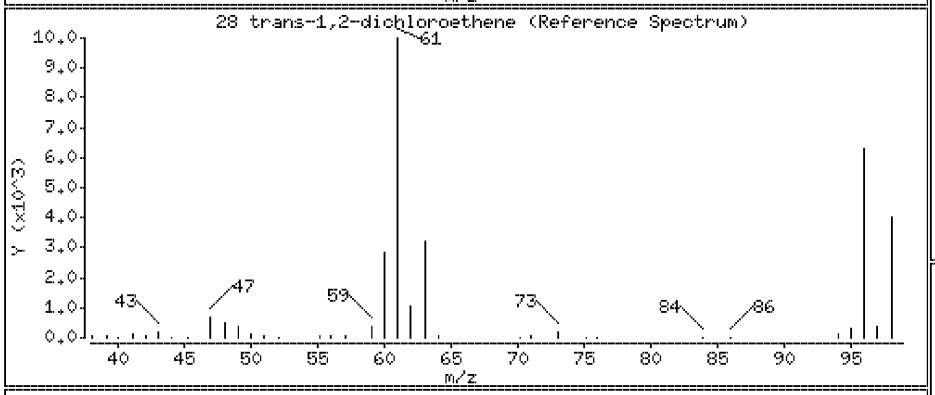
Column diameter: 0.32

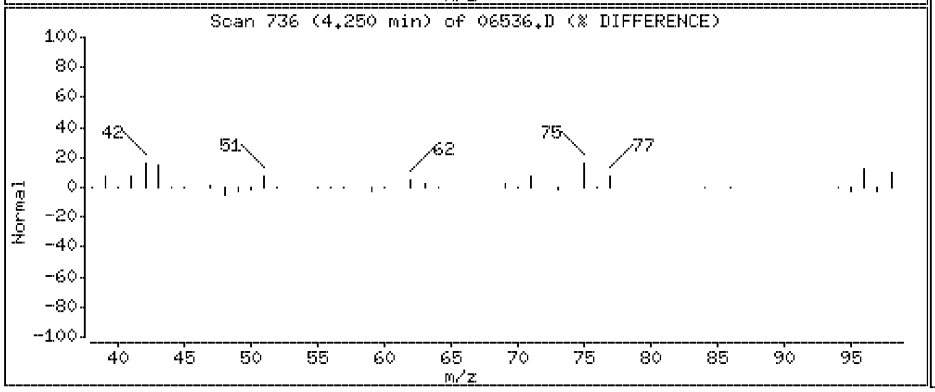
28 trans-1,2-dichloroethene

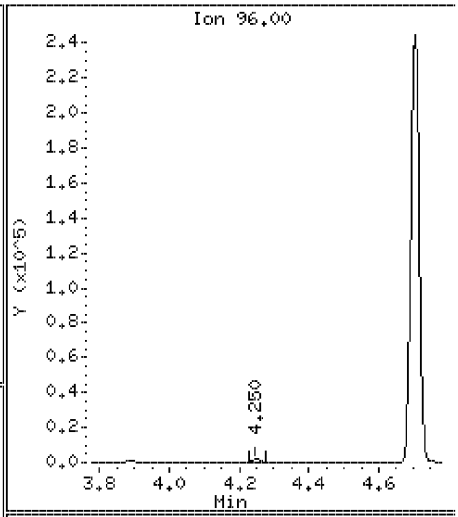
Concentration: 4.90 ppbv

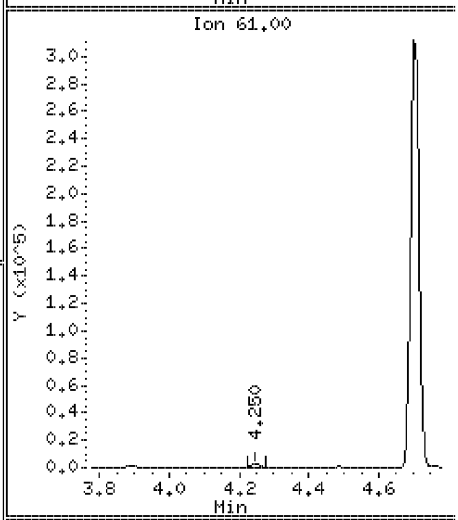


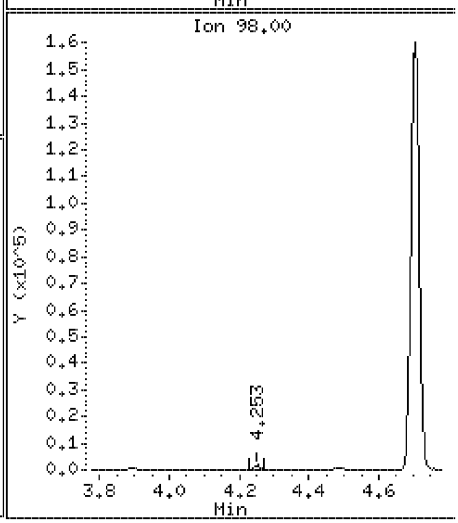












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

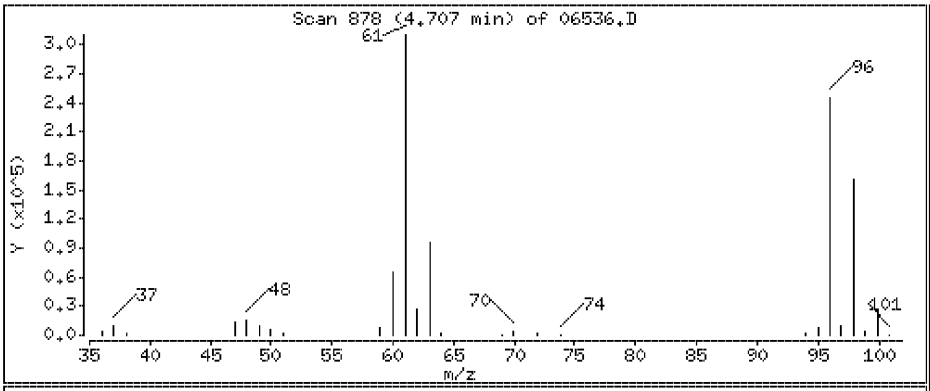
Operator: NCK

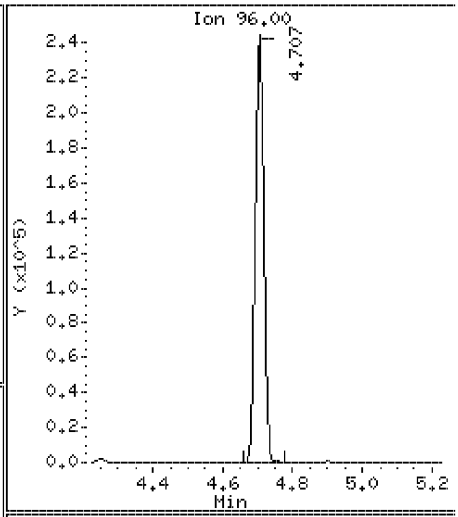
Column phase: J&W DB-5

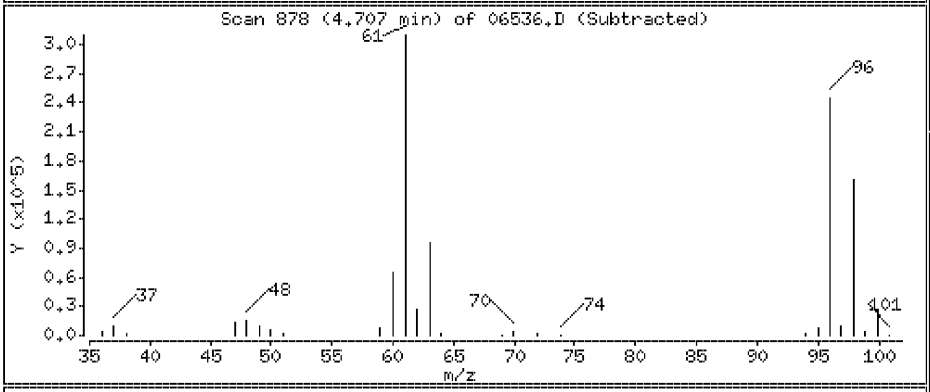
Column diameter: 0.32

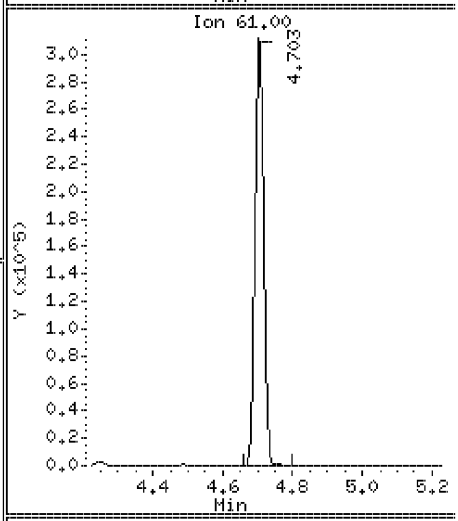
37 cis-1,2-Dichloroethene

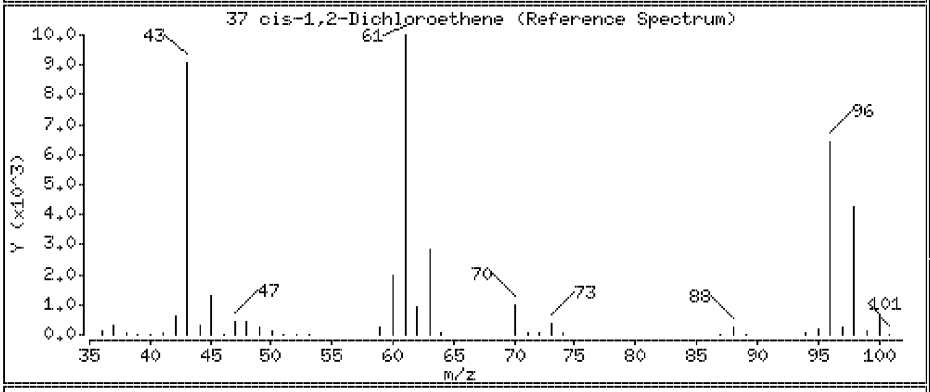
Concentration: 499 ppbv

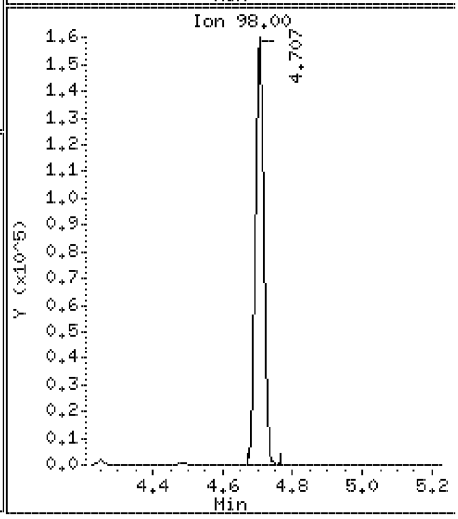


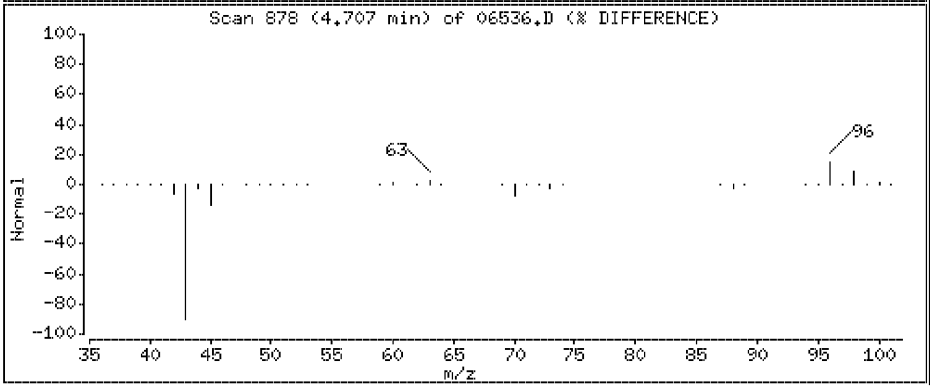












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

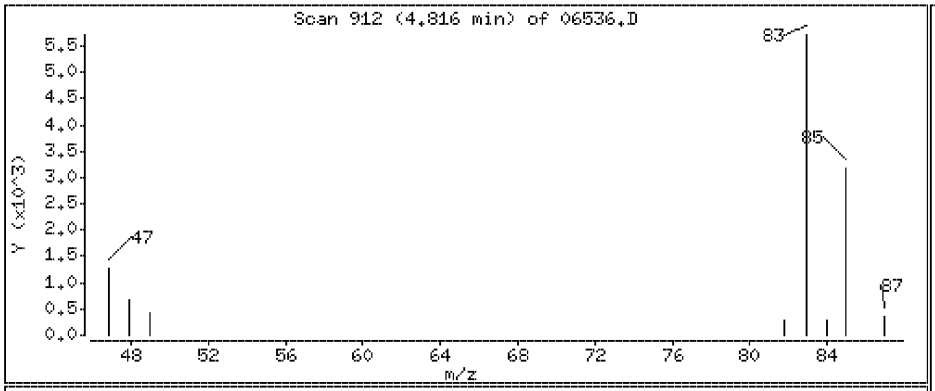
Operator: NCK

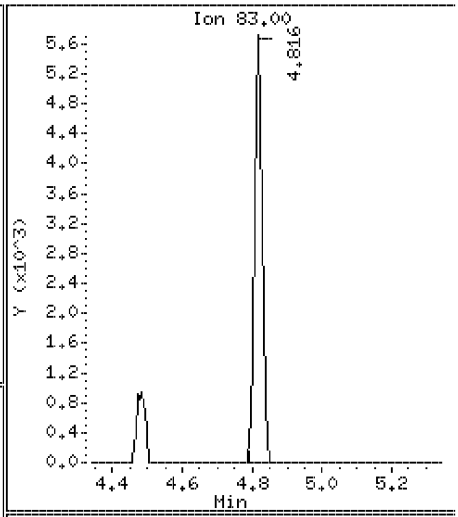
Column phase: J&W DB-5

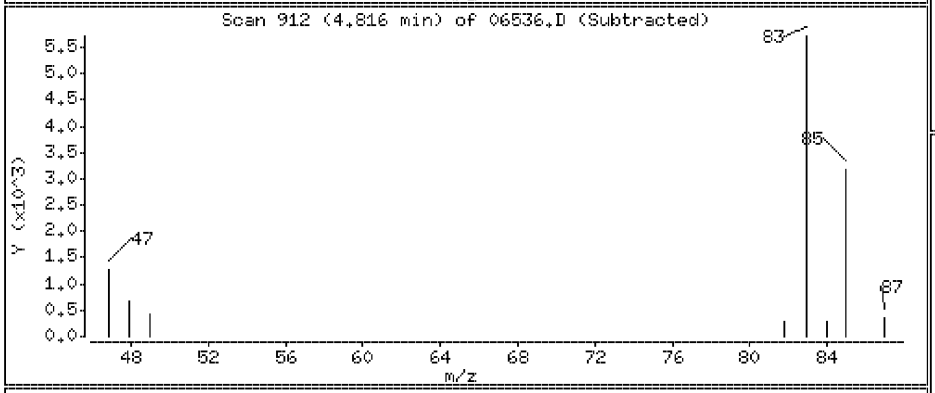
Column diameter: 0.32

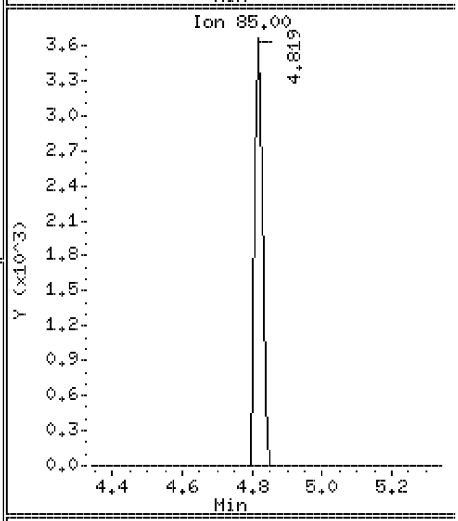
39 Chloroform

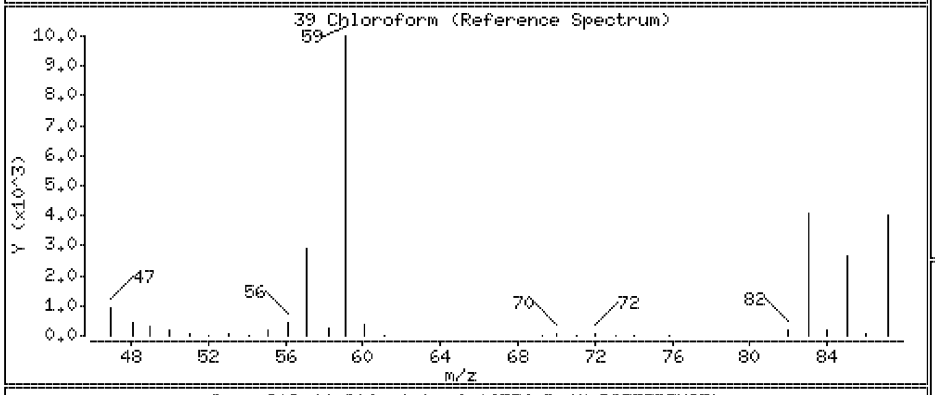
Concentration: 5.11 ppbv

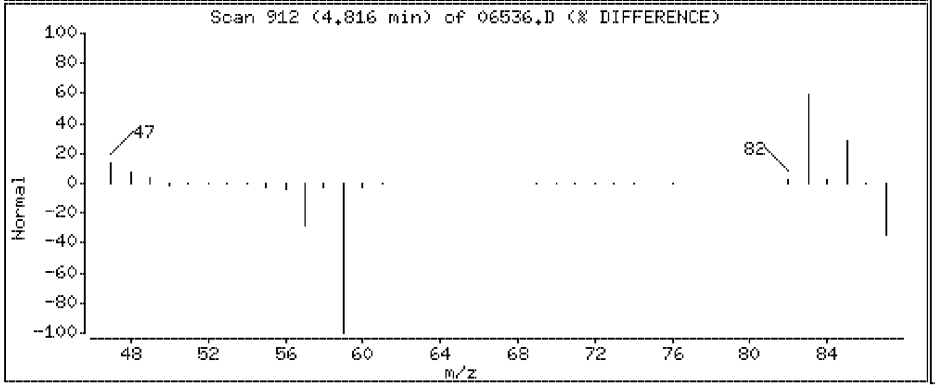


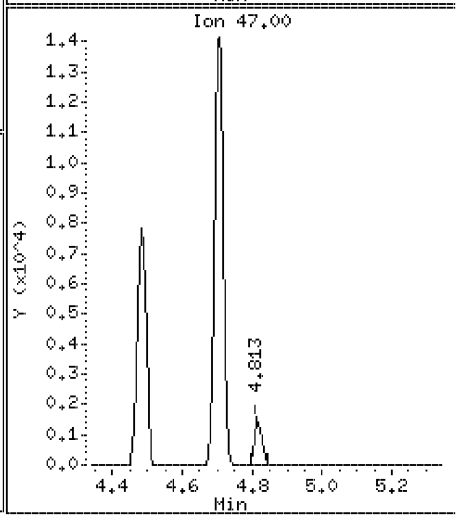












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

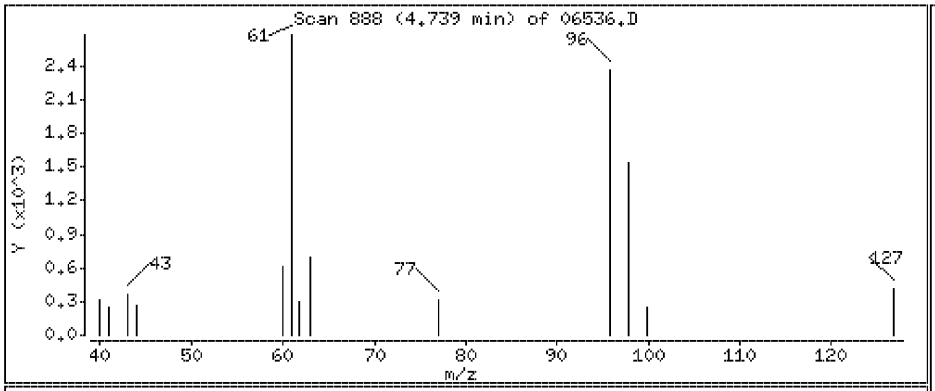
Sample Info:

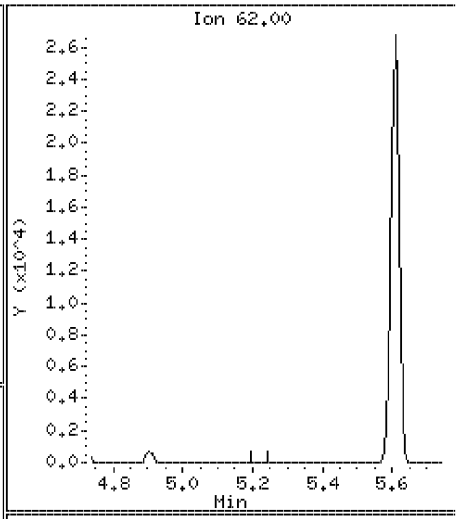
Operator: NCK

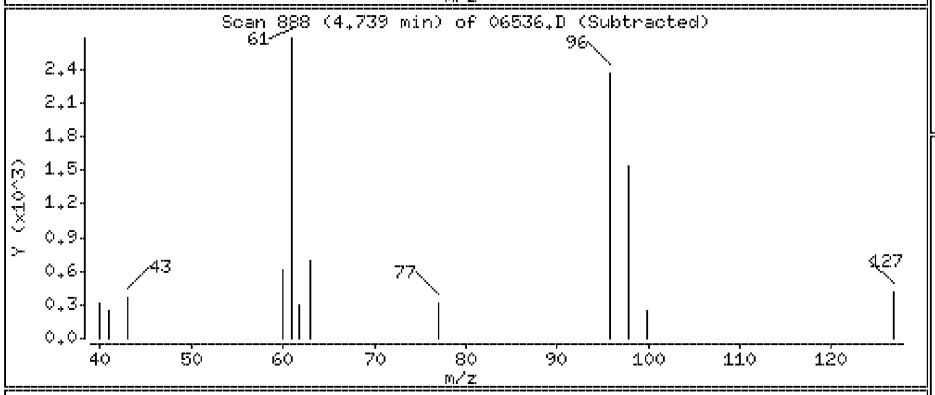
Column phase: J&W DB-5

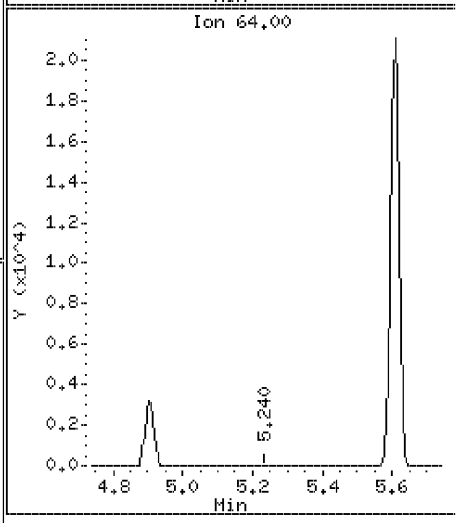
Column diameter: 0.32

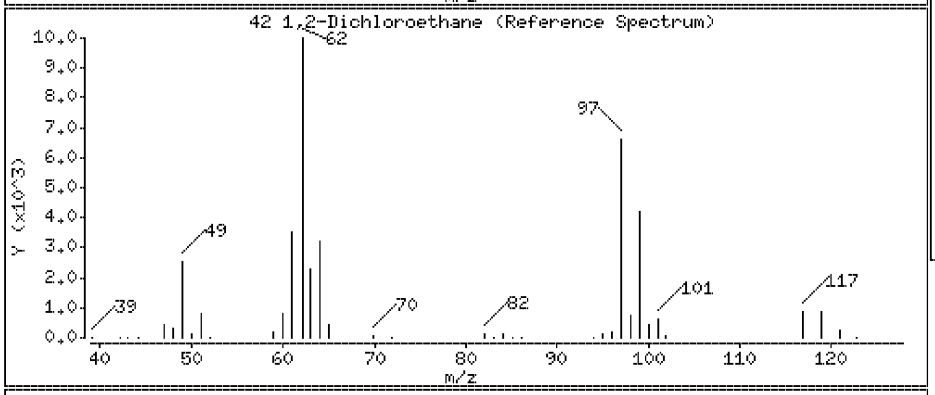
42 1,2-Dichloroethane

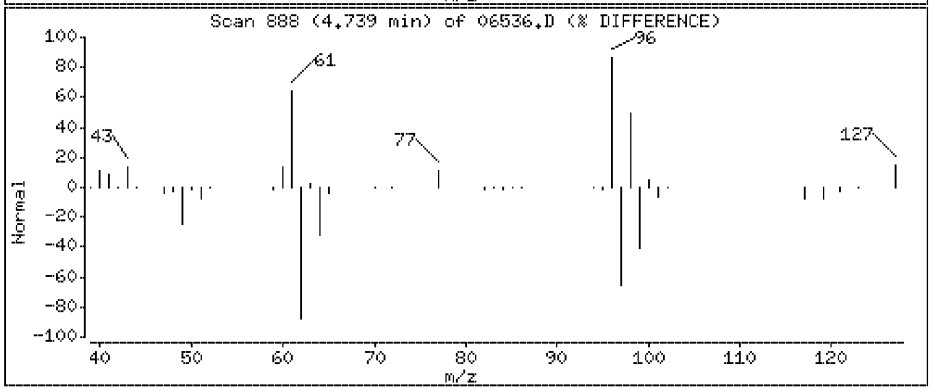












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

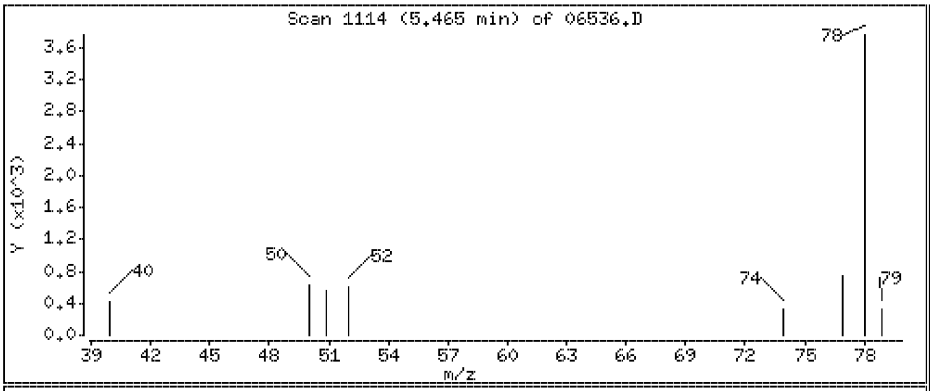
Operator: NCK

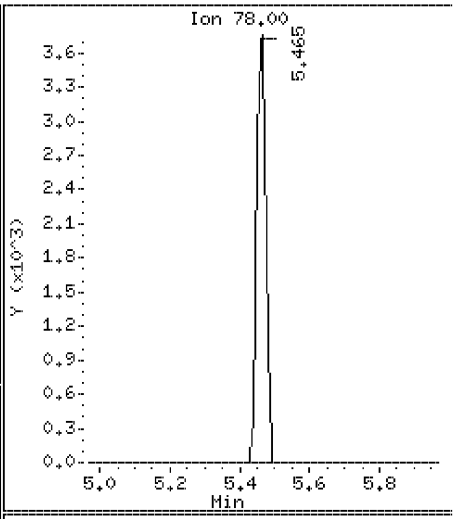
Column phase: J&W DB-5

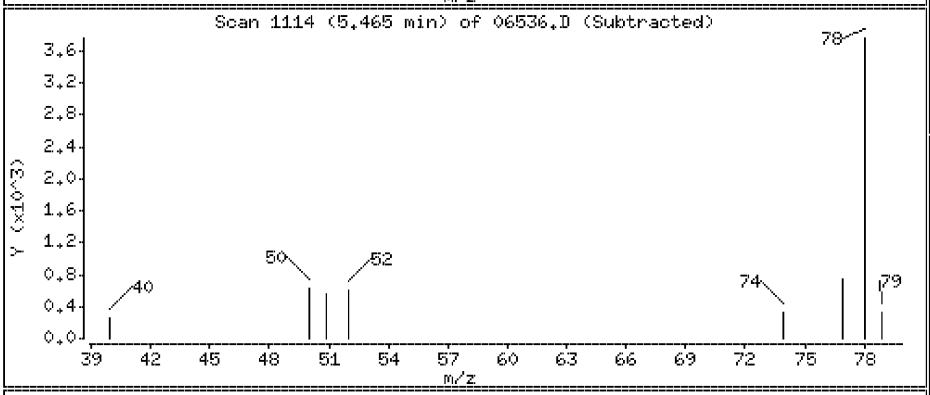
Column diameter: 0.32

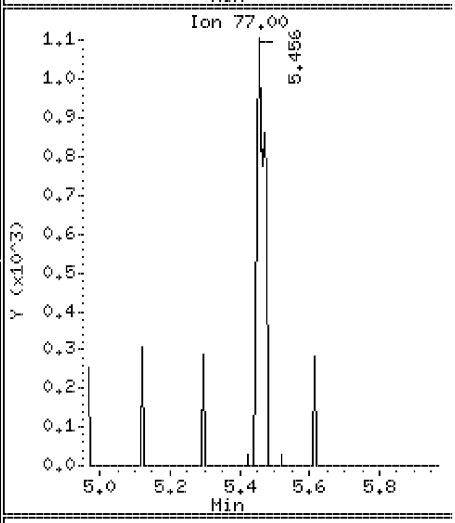
43 Benzene

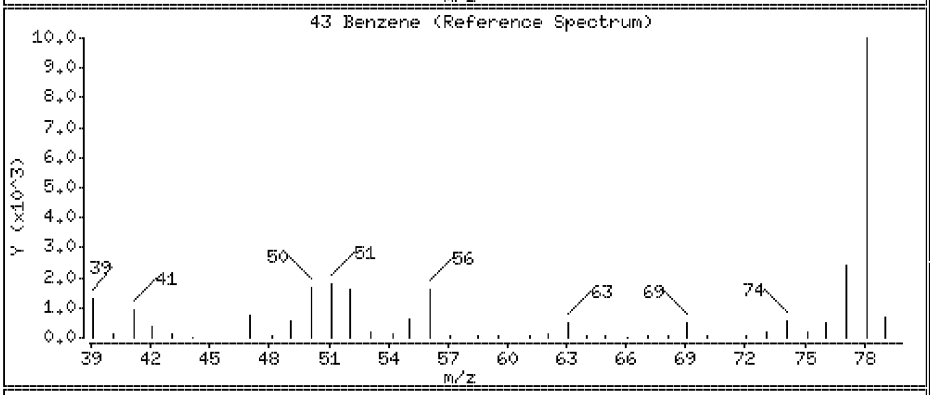
Concentration: 2.61 ppbv

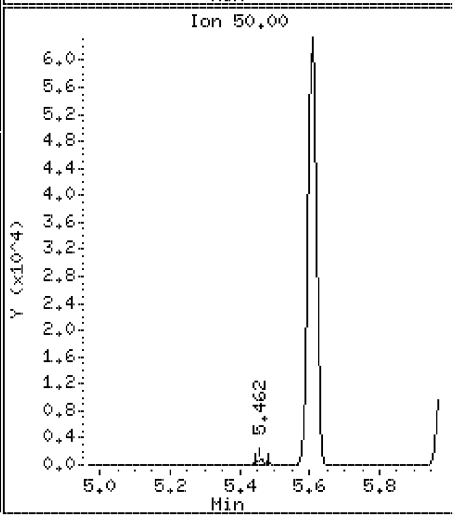


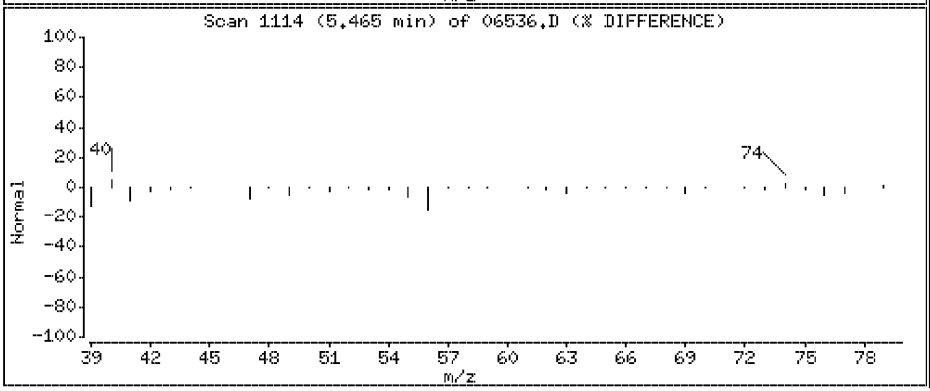












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

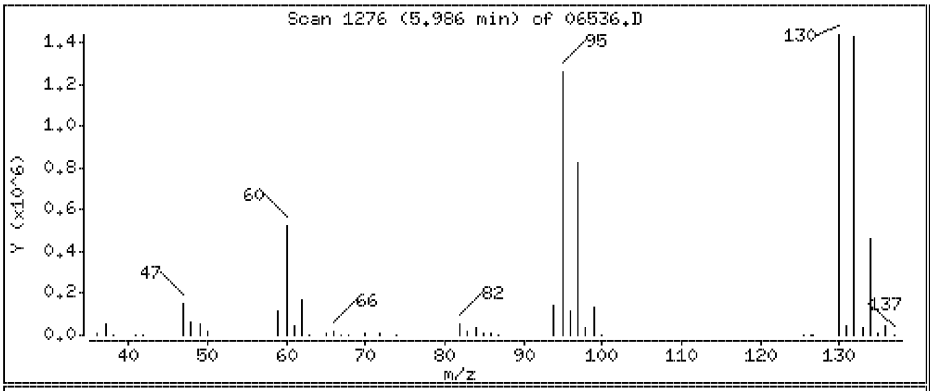
Operator: NCK

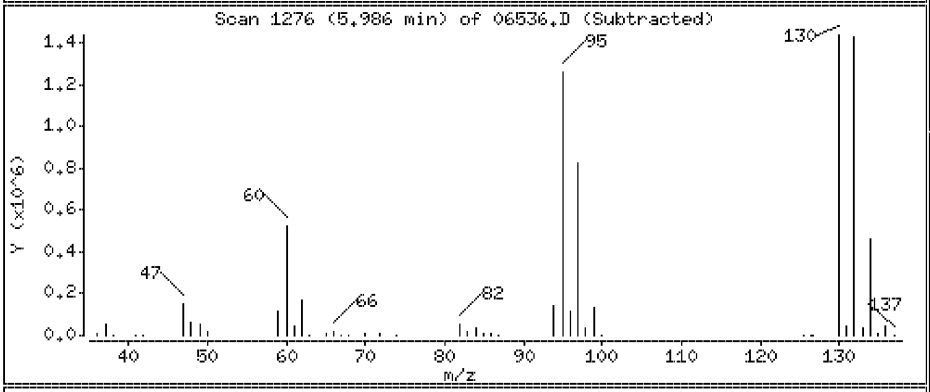
Column phase: J&W DB-5

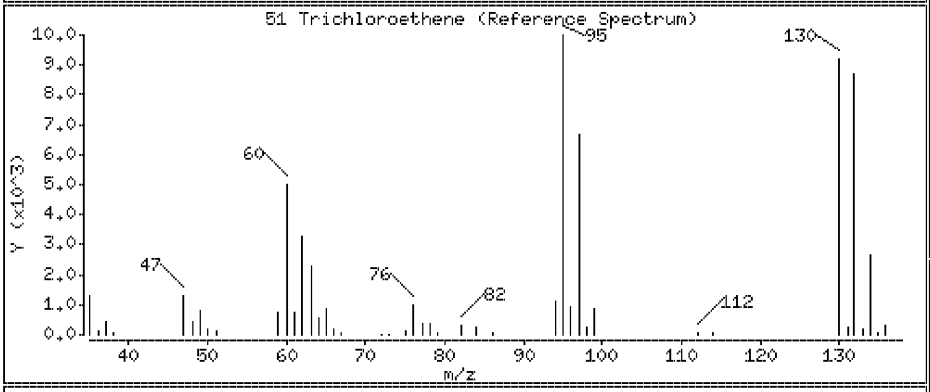
Column diameter: 0.32

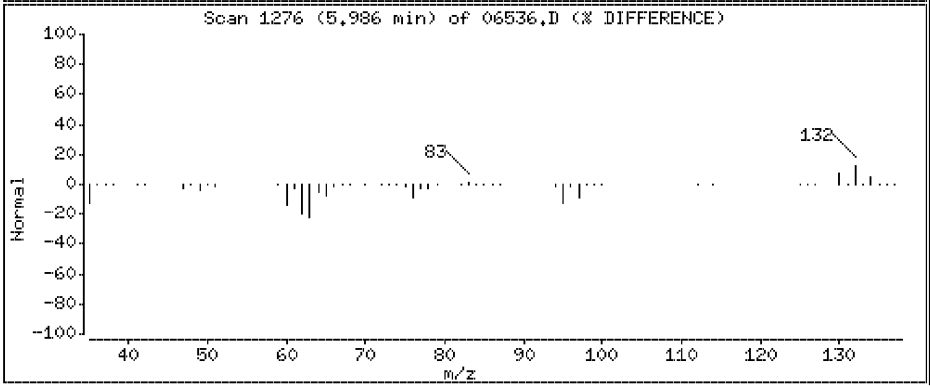
51 Trichloroethene

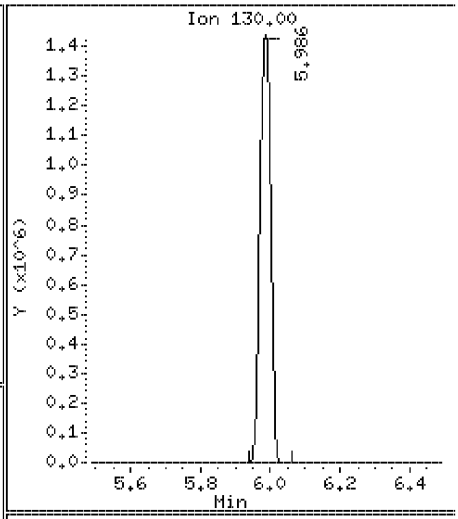
Concentration: 2230 ppbv

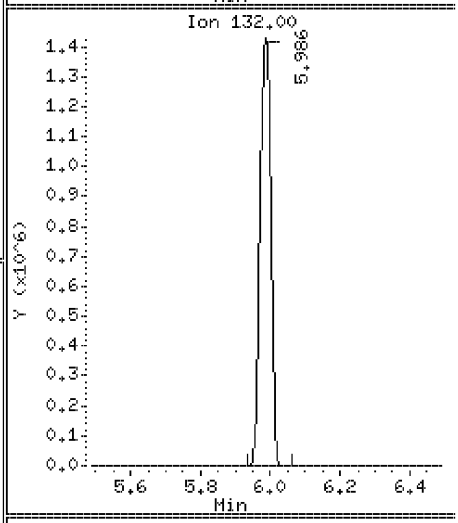


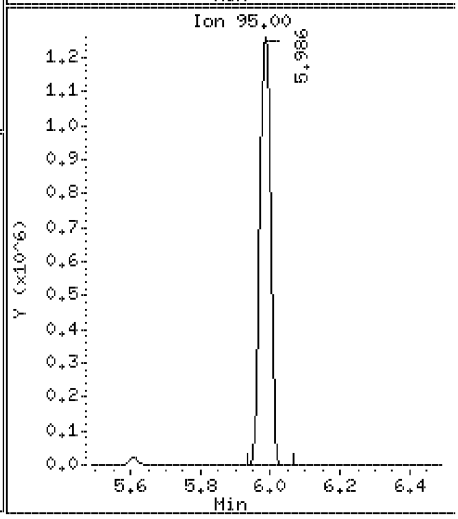












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

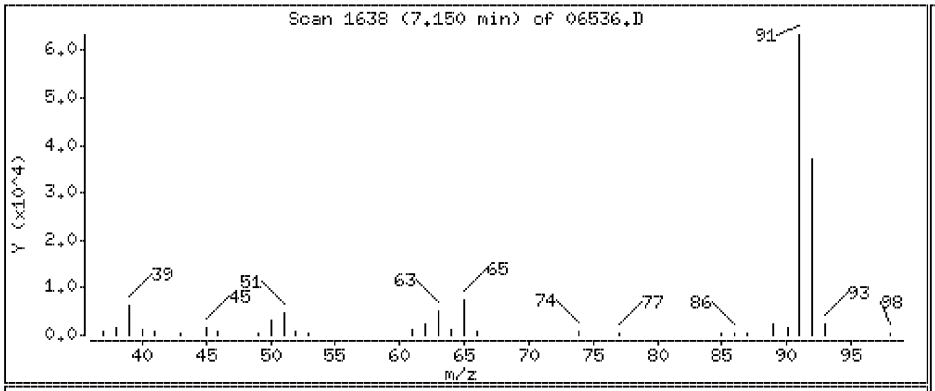
Operator: NCK

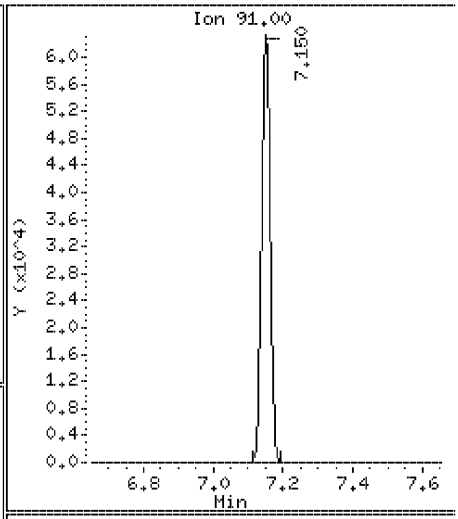
Column phase: J&W DB-5

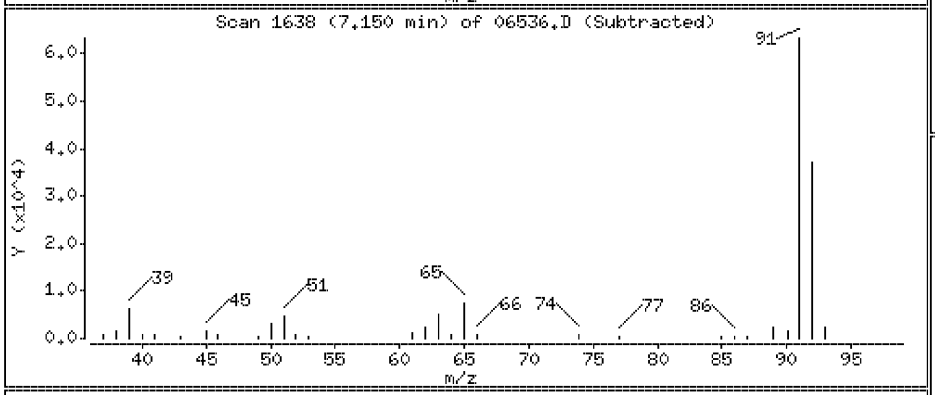
Column diameter: 0.32

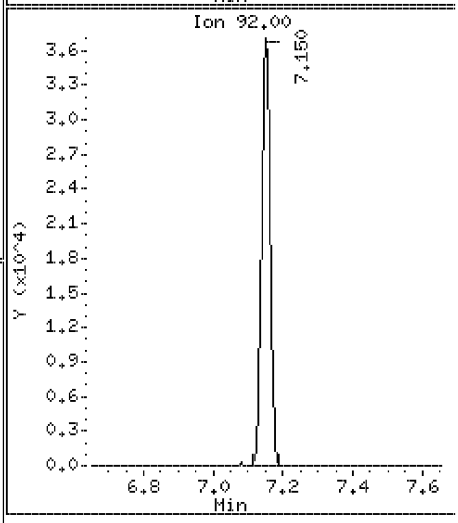
61 Toluene

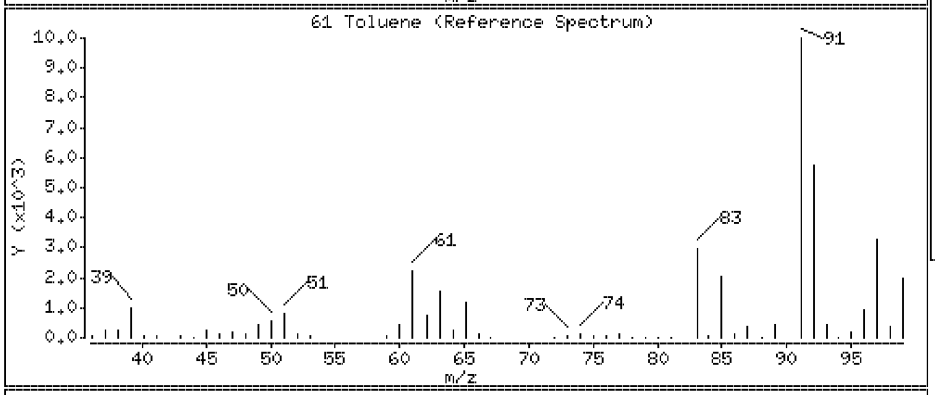
Concentration: 31.1 ppbv

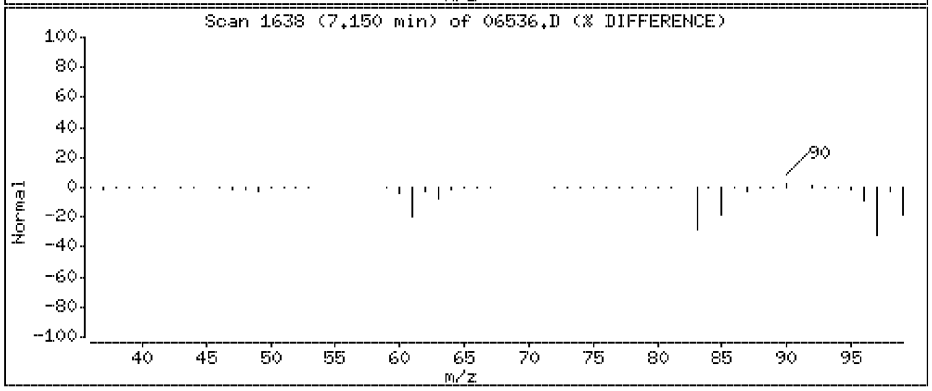












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06536.D

Date : 07-MAR-2017 02:27

Client ID:

Instrument: 10airB.i

Sample Info:

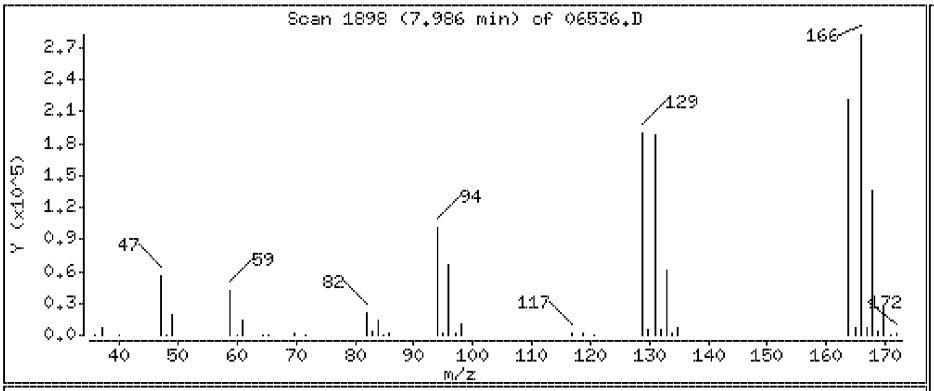
Operator: NCK

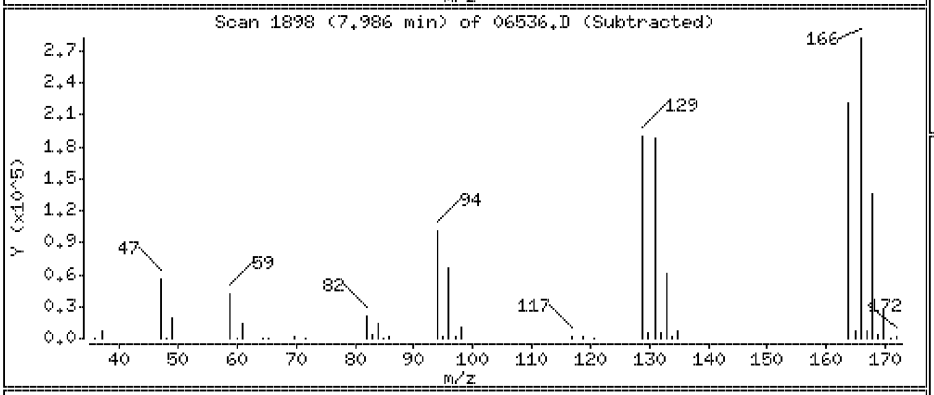
Column phase: J&W DB-5

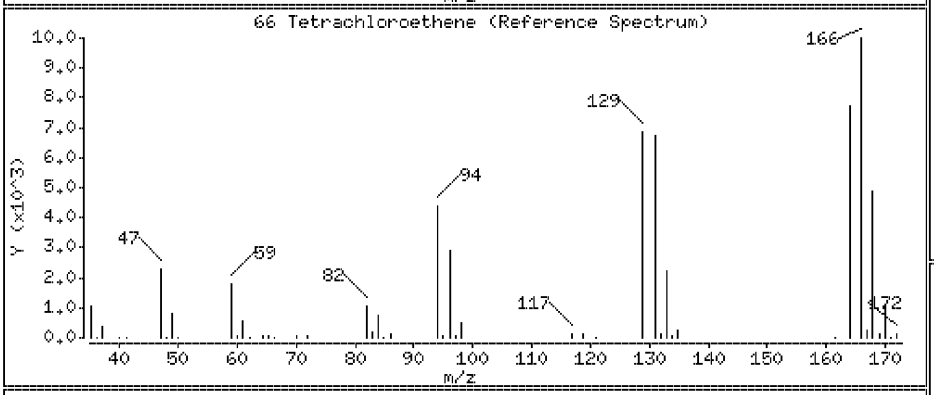
Column diameter: 0.32

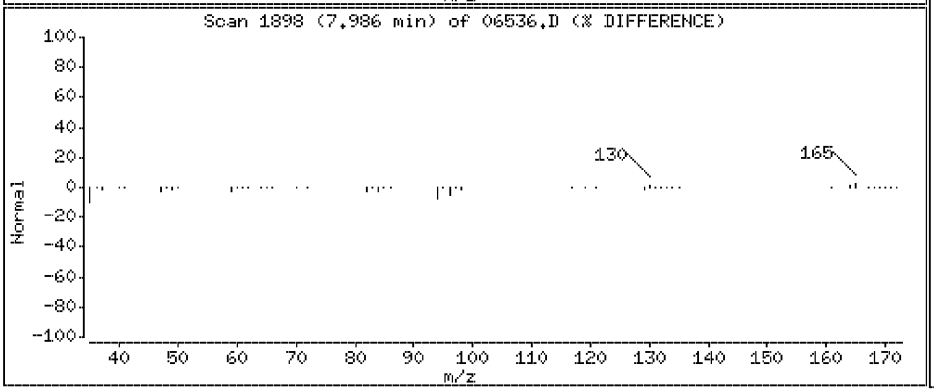
66 Tetrachloroethene

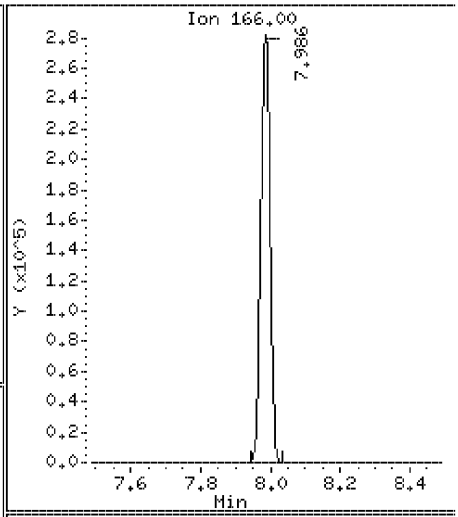
Concentration: 272 ppbv

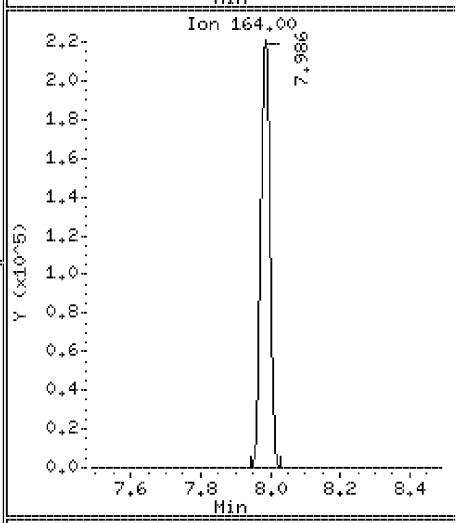


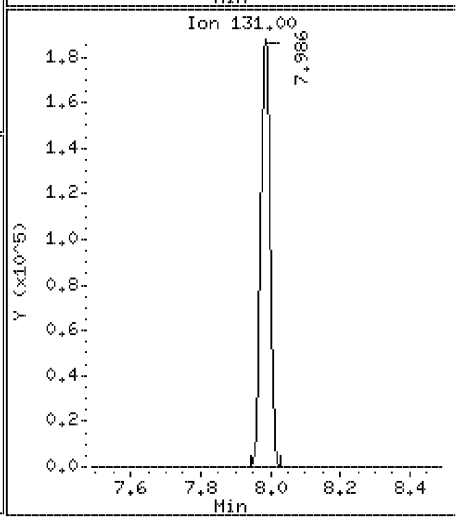






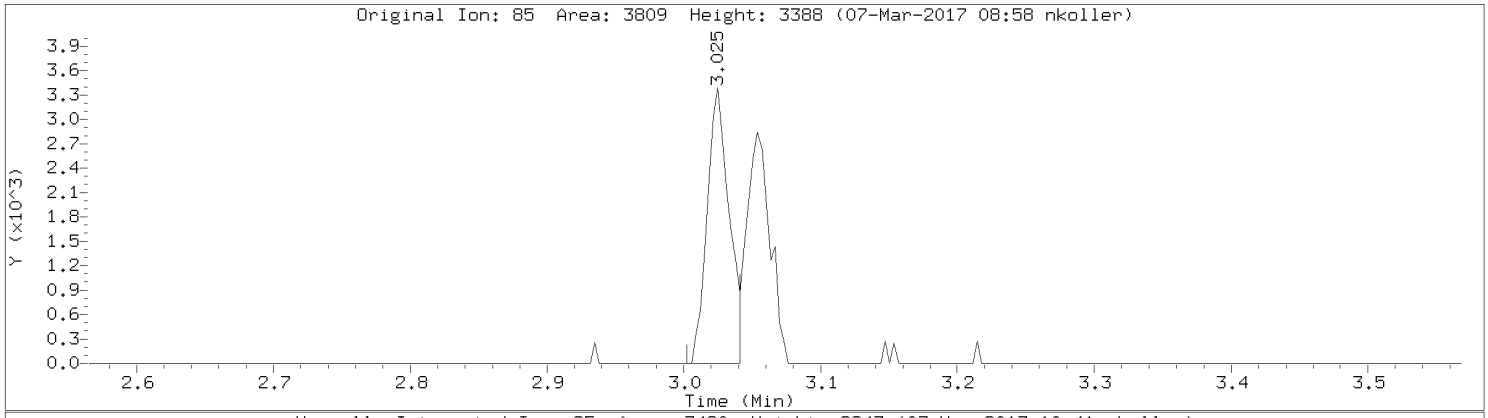


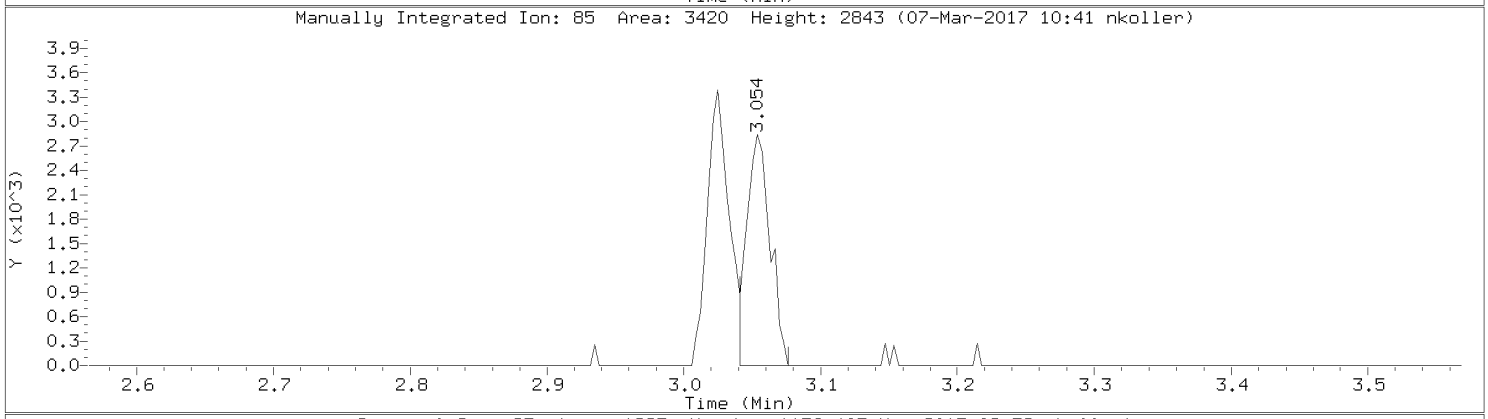


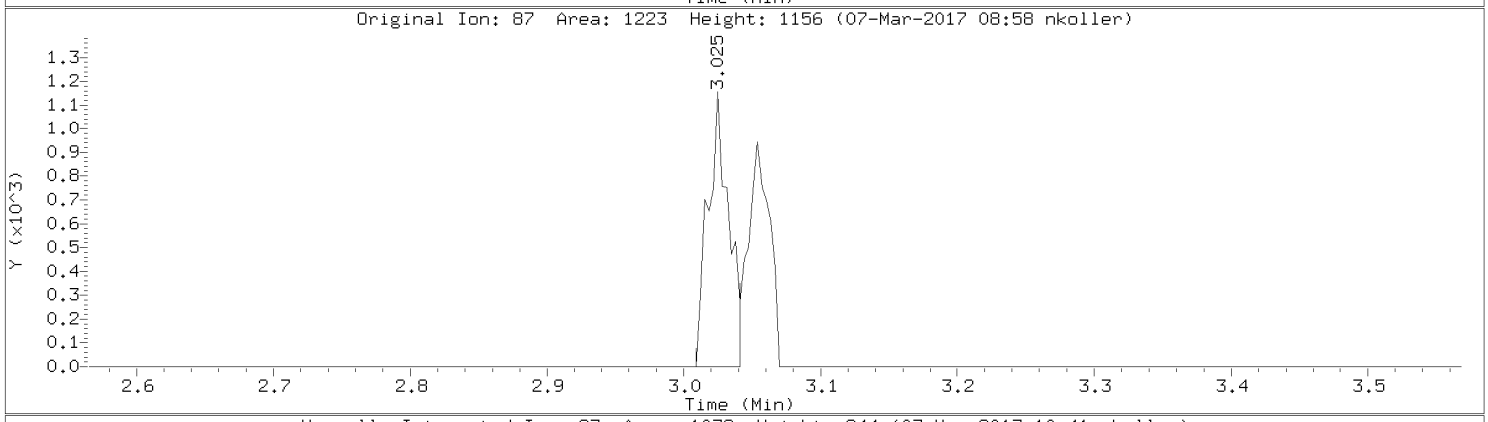


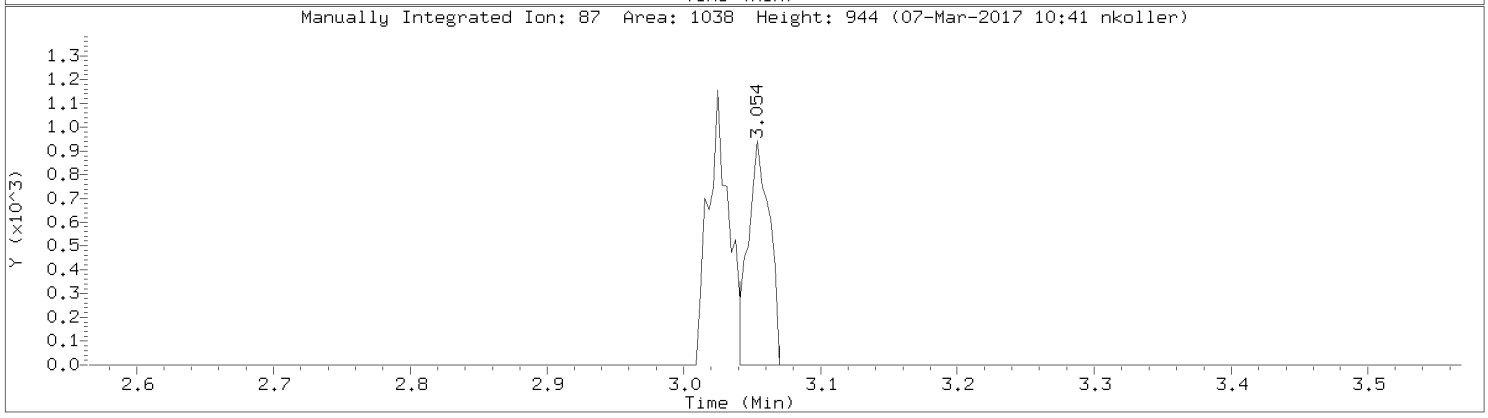
Data File: \\192.168.10.12\chem\10airB.i\030617.b/06536.D
Injection Date: 07-MAR-2017 02:27
Instrument: 10airB.i
Lab Sample ID: 10380193016

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



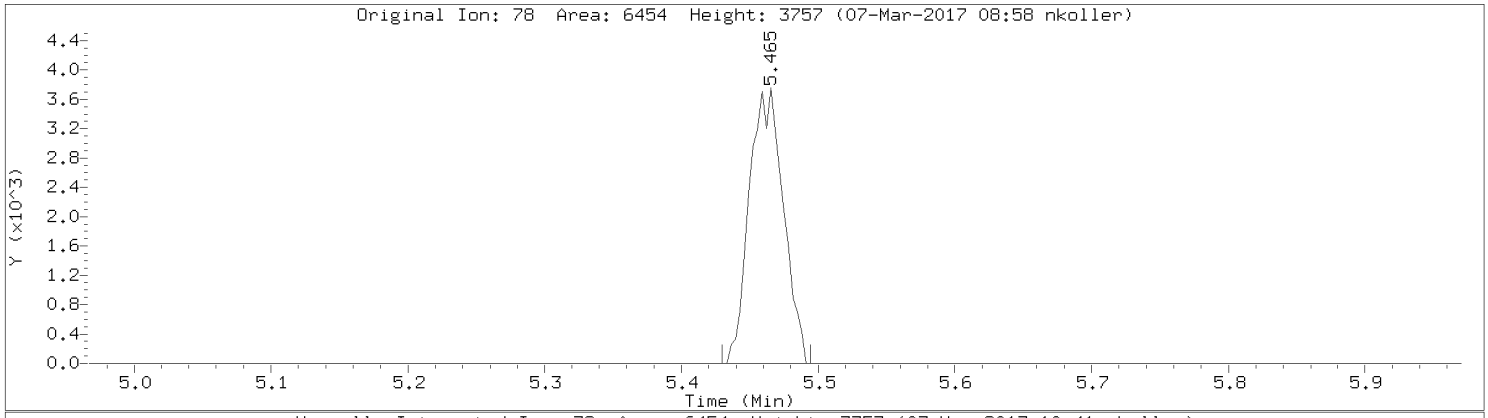


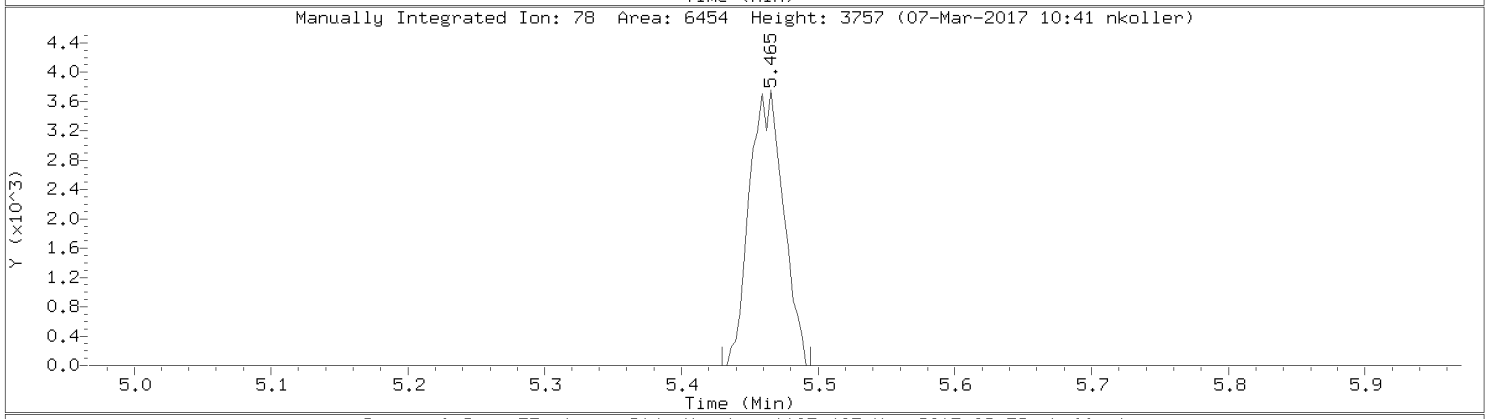


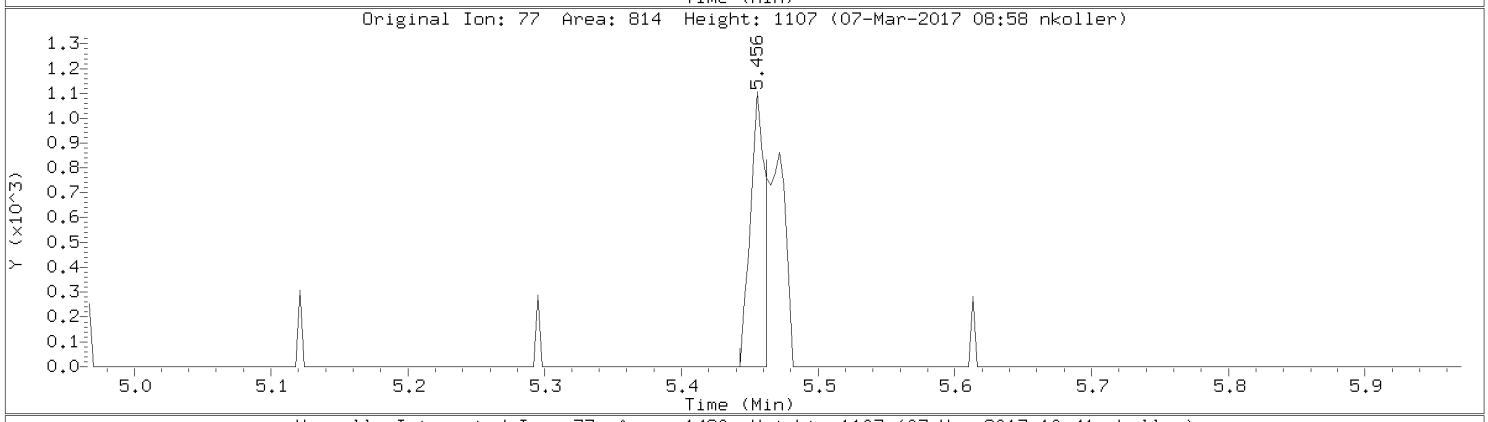


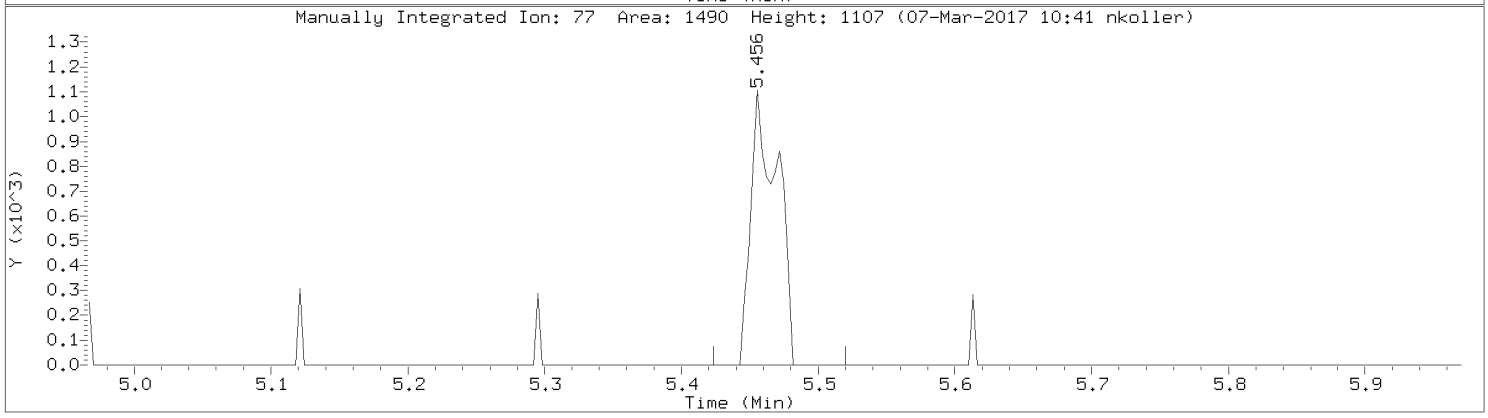
Data File: \\192.168.10.12\chem\10airB.i\030617.b/06536.D
Injection Date: 07-MAR-2017 02:27
Instrument: 10airB.i
Lab Sample ID: 10380193016

Compound: Benzene
CAS Number: 71-43-2

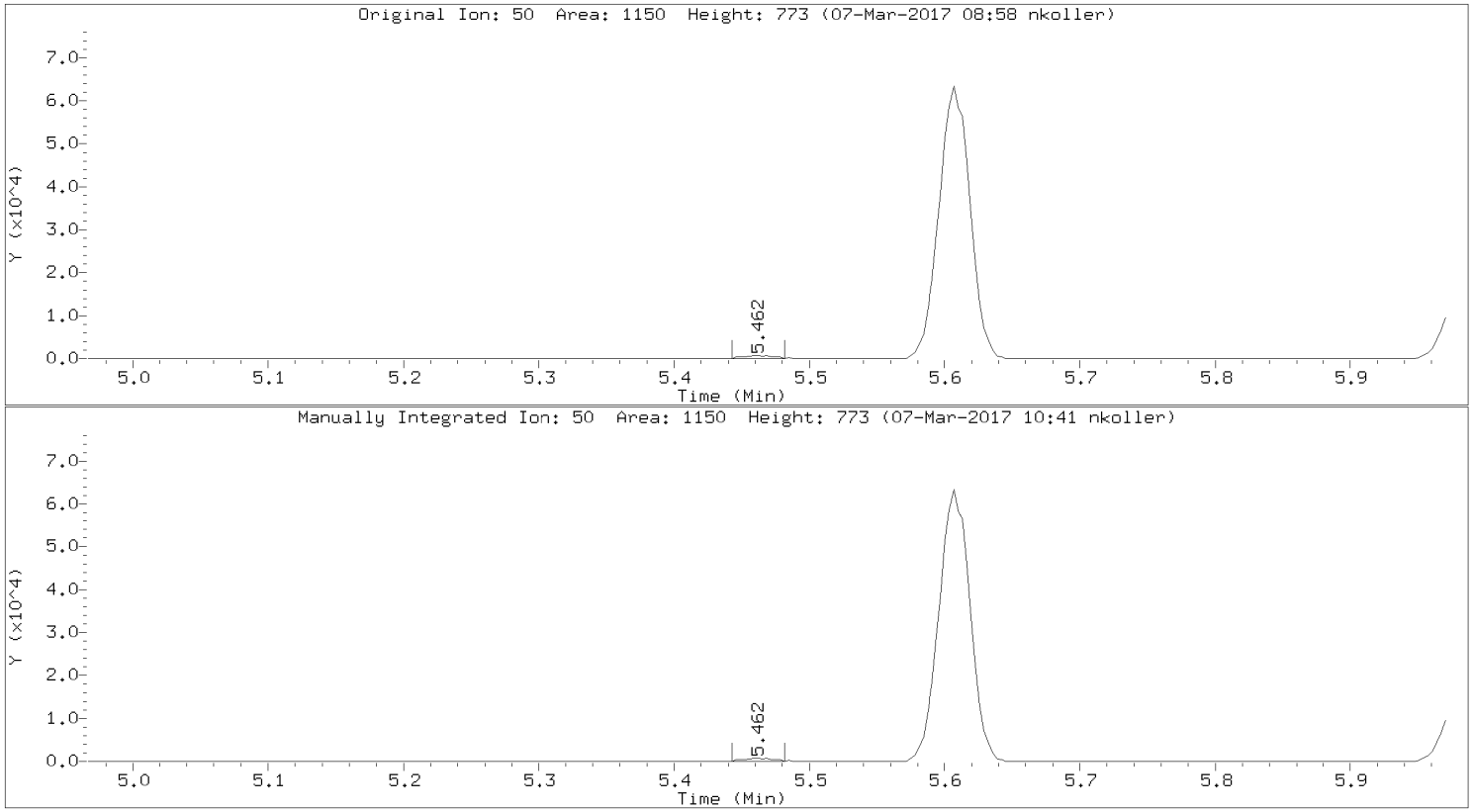






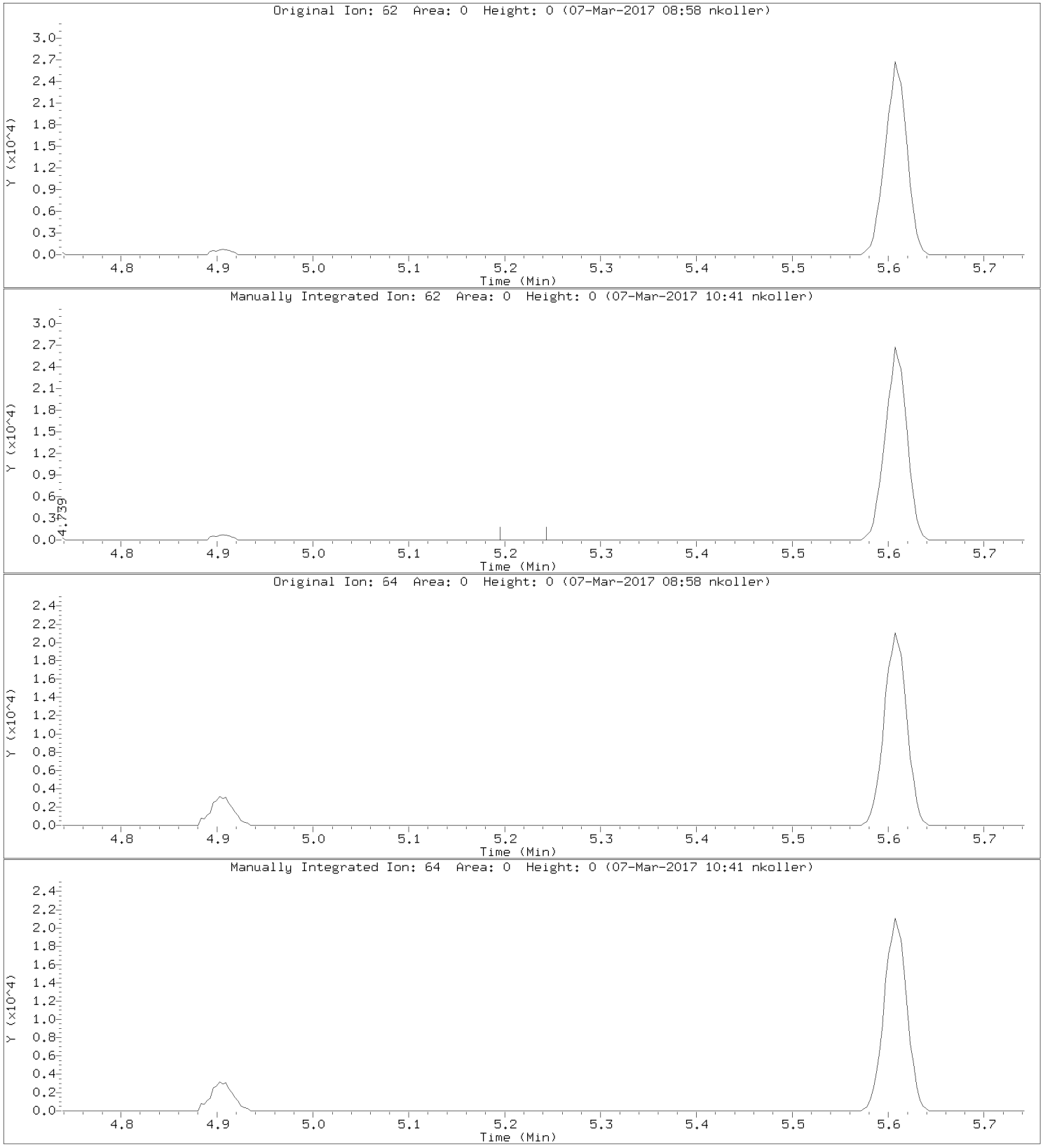


Data File: \\192.168.10.12\chem\10airB.i\030617.b/06536.D
Injection Date: 07-MAR-2017 02:27
Instrument: 10airB.i
Lab Sample ID: 10380193016



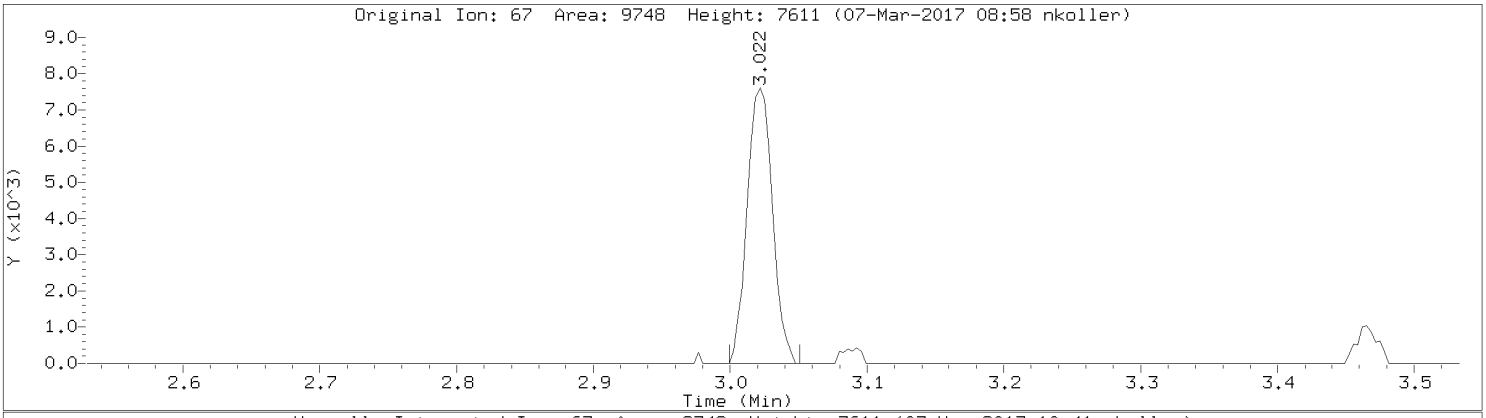
Data File: \\192.168.10.12\chem\10airB.i\030617.b/06536.D
Injection Date: 07-MAR-2017 02:27
Instrument: 10airB.i
Lab Sample ID: 10380193016

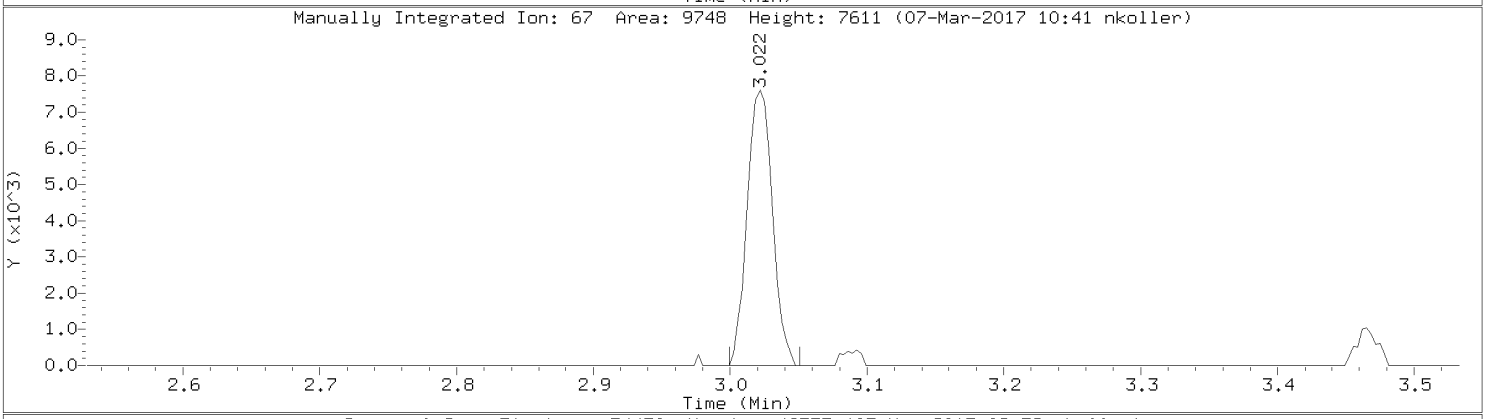
Compound: 1,2-Dichloroethane
CAS Number: 107-06-2

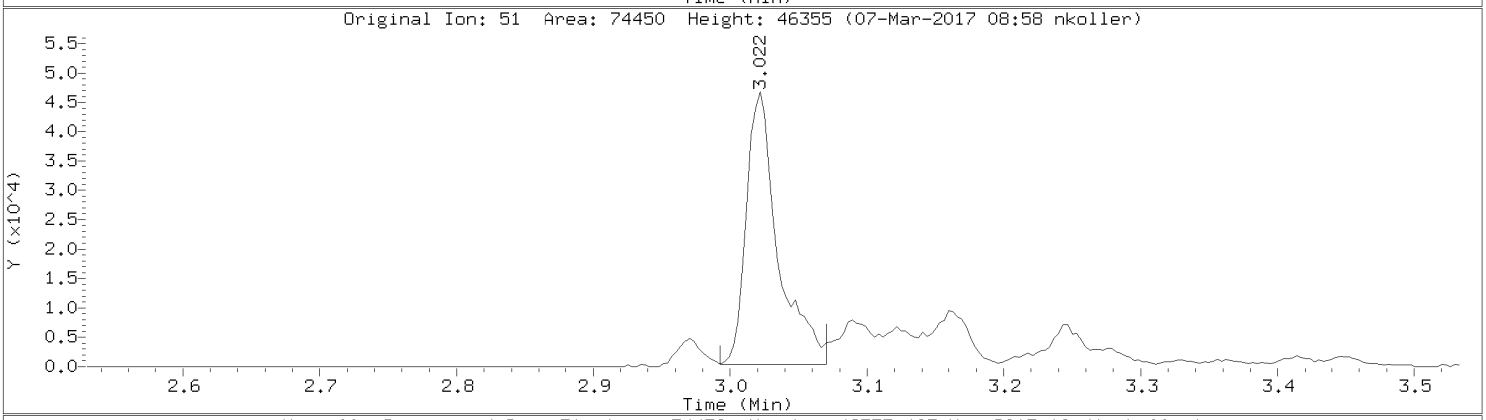


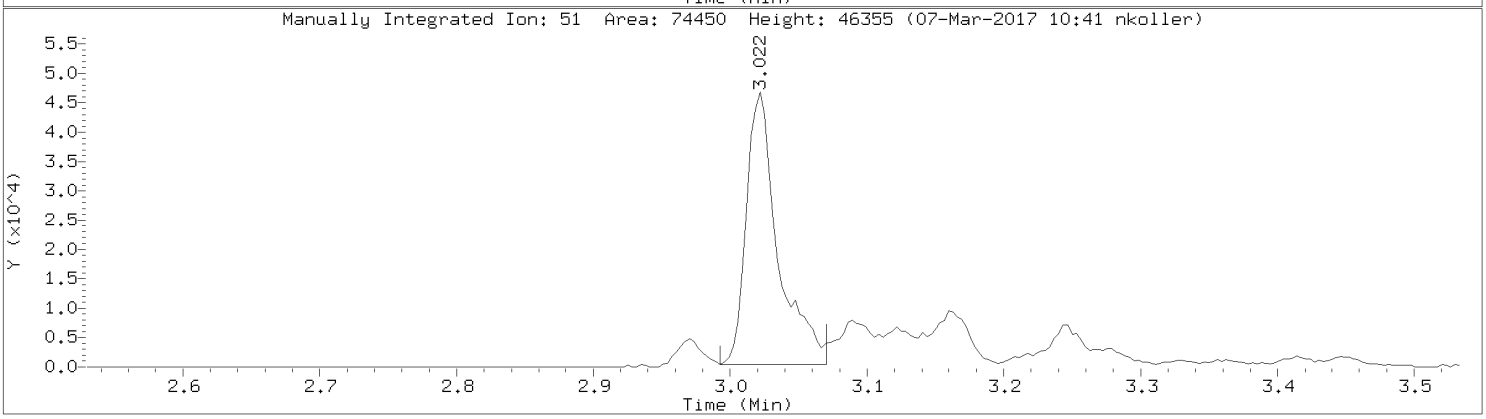
Data File: \\192.168.10.12\chem\10airB.i\030617.b/06536.D
Injection Date: 07-MAR-2017 02:27
Instrument: 10airB.i
Lab Sample ID: 10380193016

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

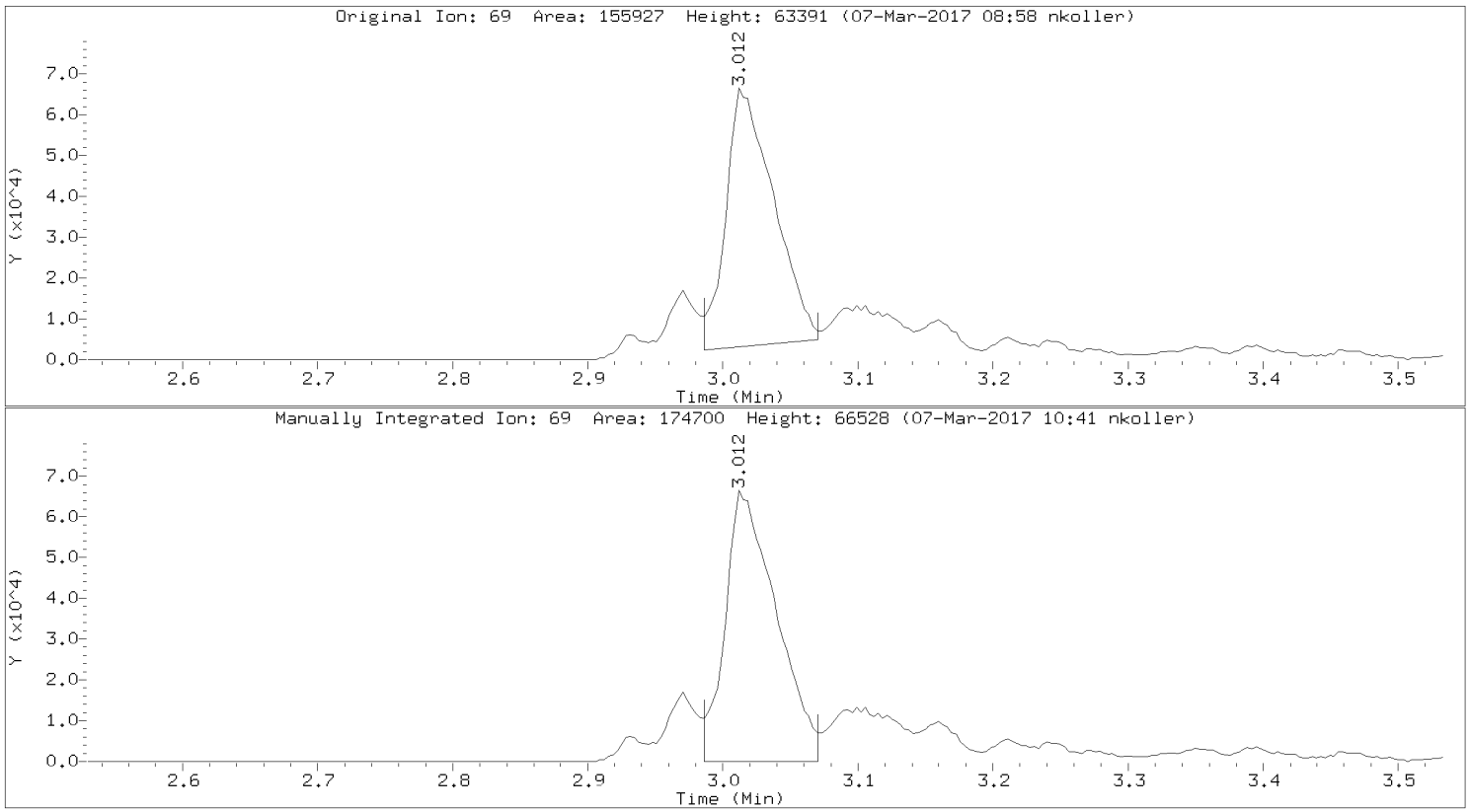






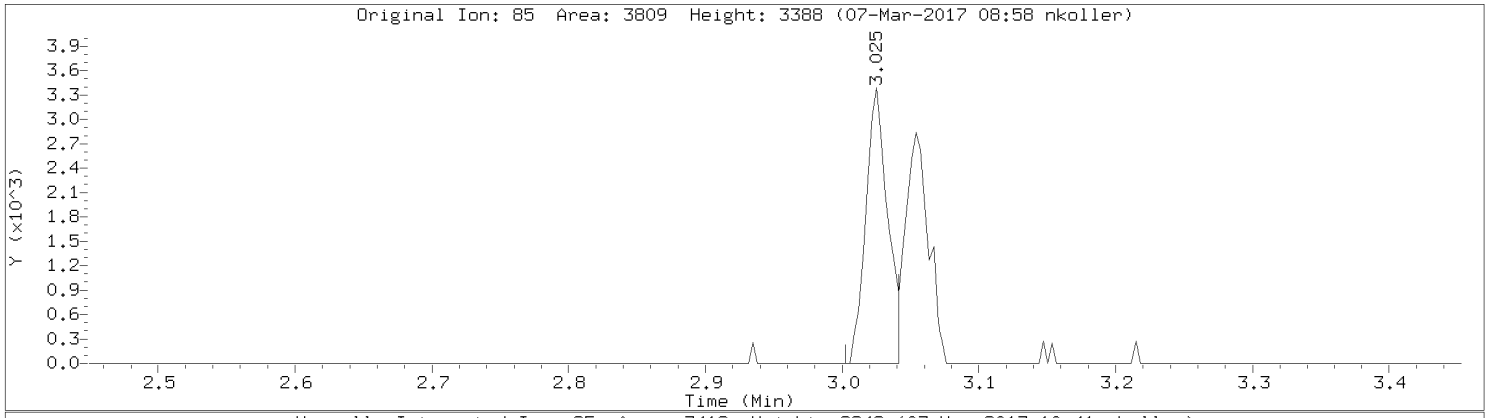


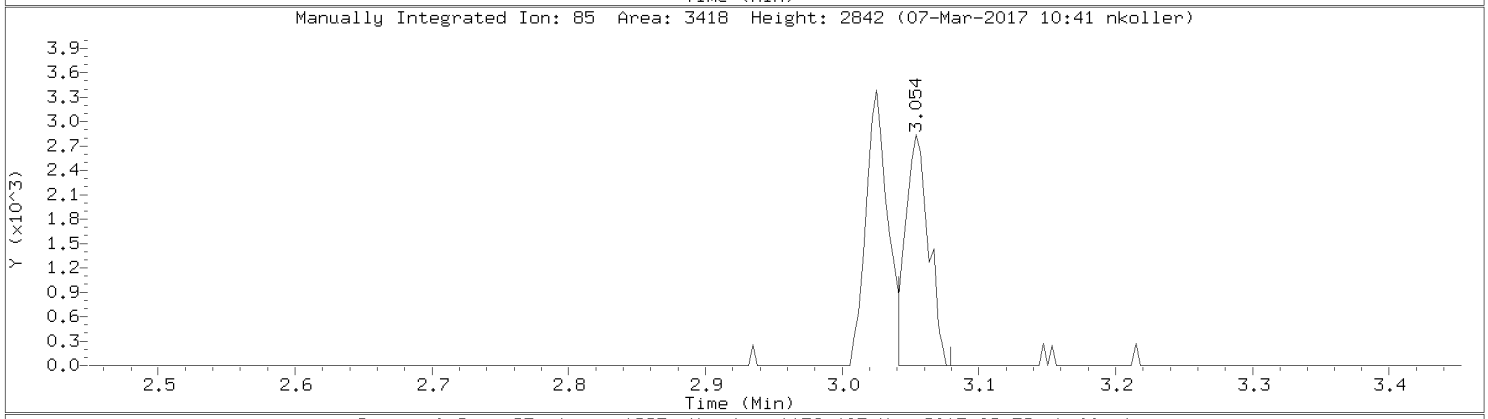
Data File: \\192.168.10.12\chem\10airB.i\030617.b/06536.D
Injection Date: 07-MAR-2017 02:27
Instrument: 10airB.i
Lab Sample ID: 10380193016

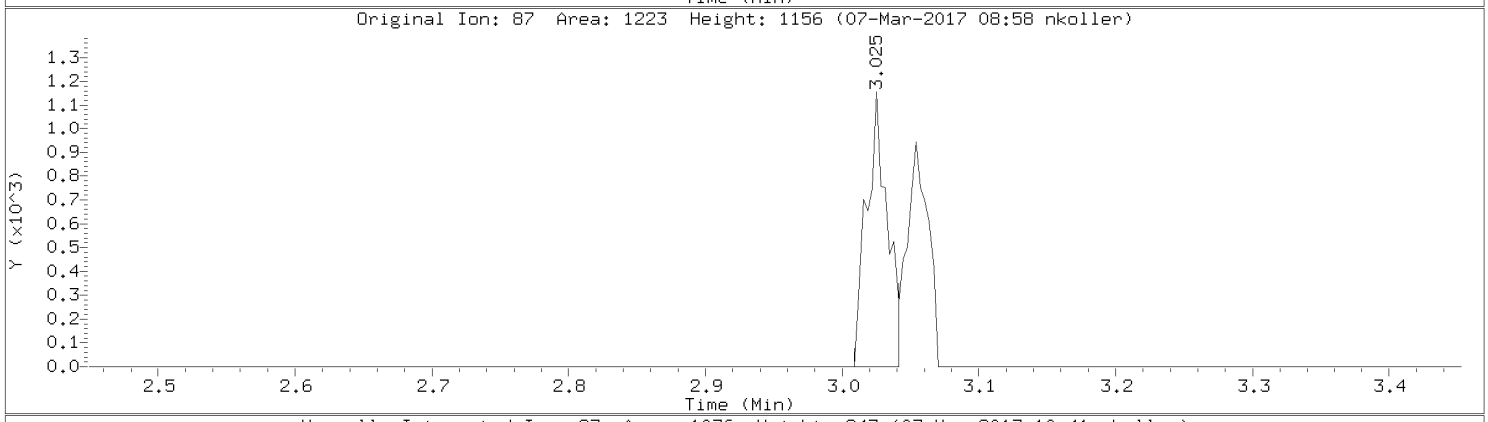


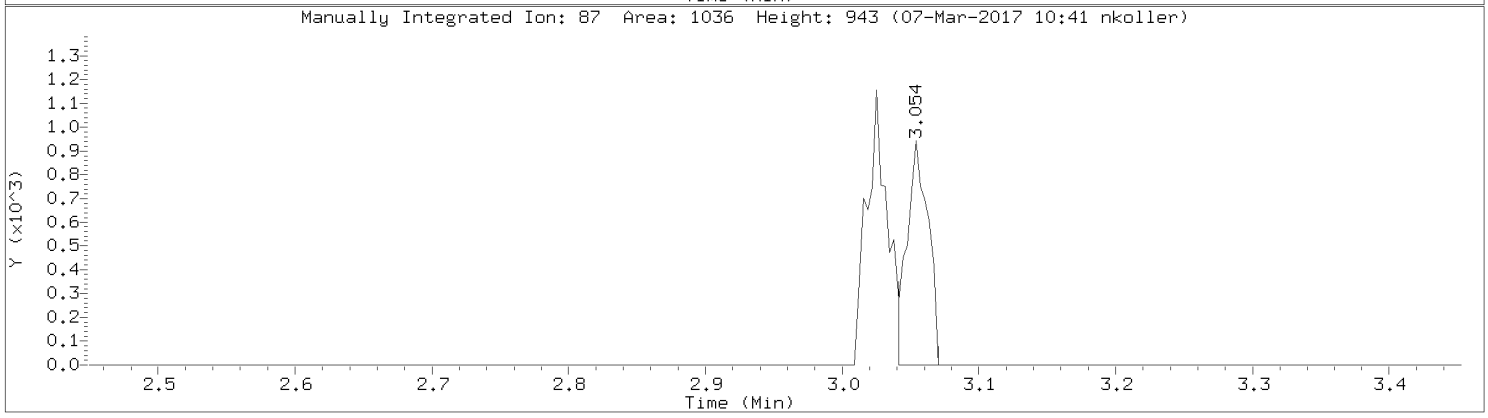
Data File: \\192.168.10.12\chem\10airB.i\030617.b/06536.D
Injection Date: 07-MAR-2017 02:27
Instrument: 10airB.i
Lab Sample ID: 10380193016

Compound: Chloropentafluoroethane
CAS Number: 75-37-6

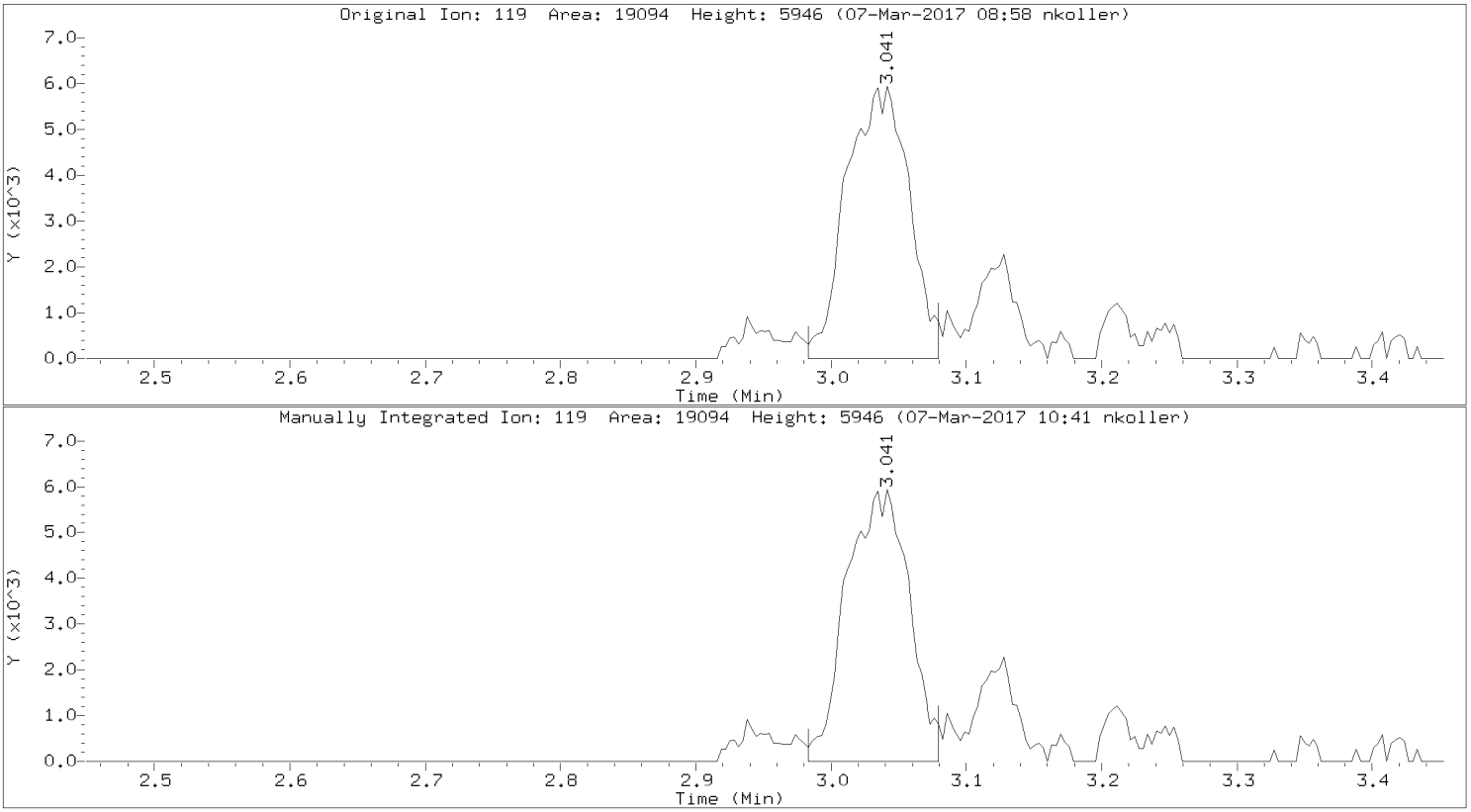








Data File: \\192.168.10.12\chem\10airB.i\030617.b/06536.D
Injection Date: 07-MAR-2017 02:27
Instrument: 10airB.i
Lab Sample ID: 10380193016



Data File: \\192.168.10.12\chem\10airB.i\030717.b\06616.D
Report Date: 08-Mar-2017 11:40

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030717.b\06616.D
Lab Smp Id: 10380193016
Inj Date : 07-MAR-2017 15:42
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27846
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Meth Date : 08-Mar-2017 09:09 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 16
Dil Factor: 585.60000
Integrator: HP RTE Compound Sublist: TCE.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	585.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$	32 Hexane-d14(S)	66	4.478	4.481	(0.800)	358528	8.22209	8.22
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	1370579	10.0000	
	51 Trichloroethene	130	5.973	5.986	(1.067)	248456	10.7892	6320
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.263)	1152988	9.39906	9.40
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	862688	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	433563	9.12331	9.12

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06616.D
Report Date: 08-Mar-2017 11:40

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06616.D
Lab Smp Id: 10380193016
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Misc Info: 27846

Calibration Date: 07-MAR-2017
Calibration Time: 08:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

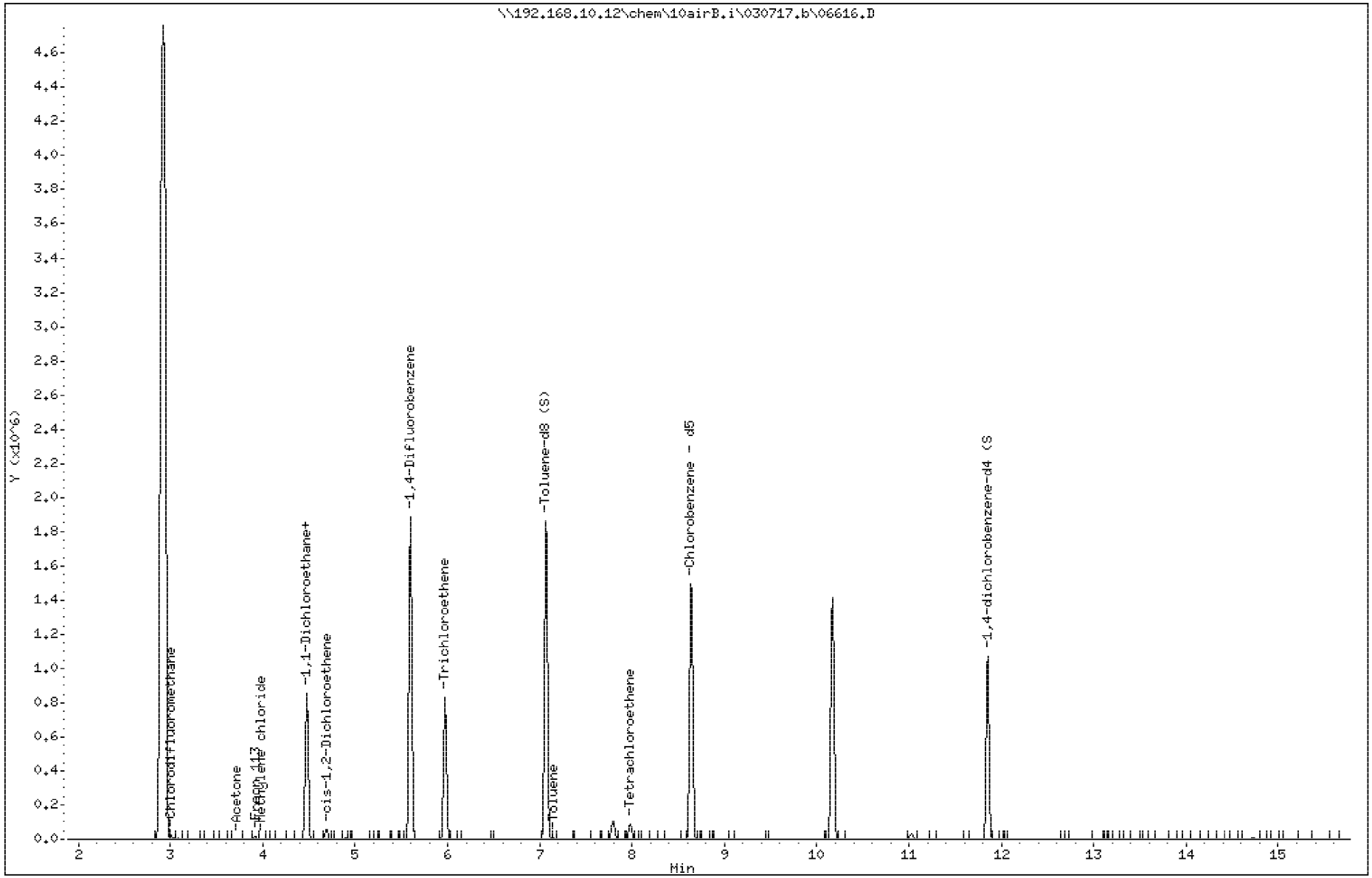
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1370579	-3.08
67 Chlorobenzene - d	951026	570616	1331436	862688	-9.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06616.D
Date : 07-MAR-2017 15:42
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030717.b\06616.D

Date : 07-MAR-2017 15:42

Client ID:

Instrument: 10airB.i

Sample Info:

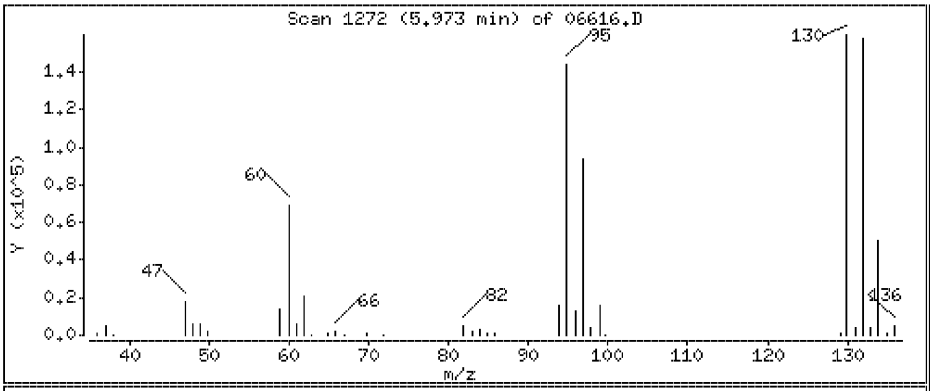
Operator: NCK

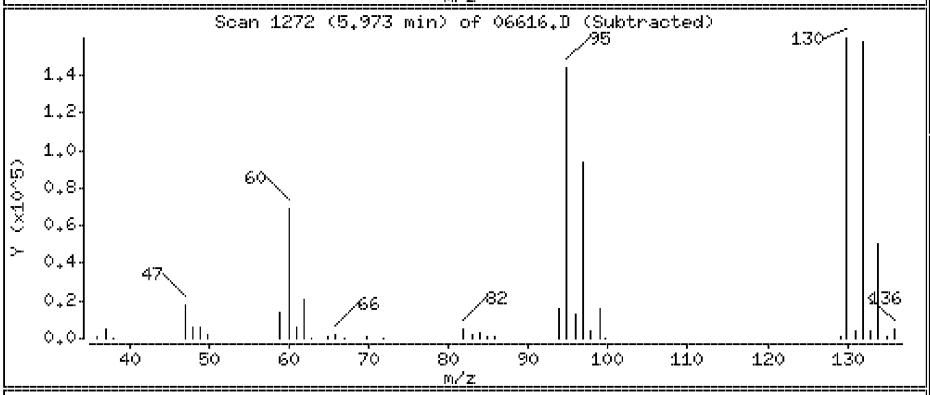
Column phase: J&W DB-5

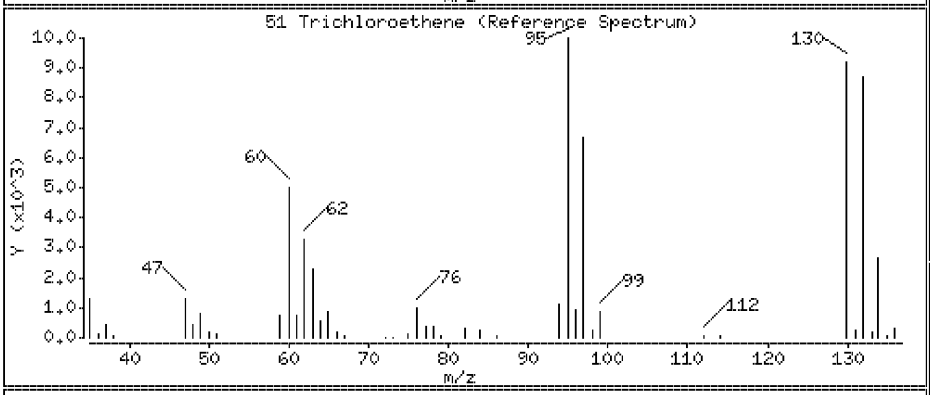
Column diameter: 0.32

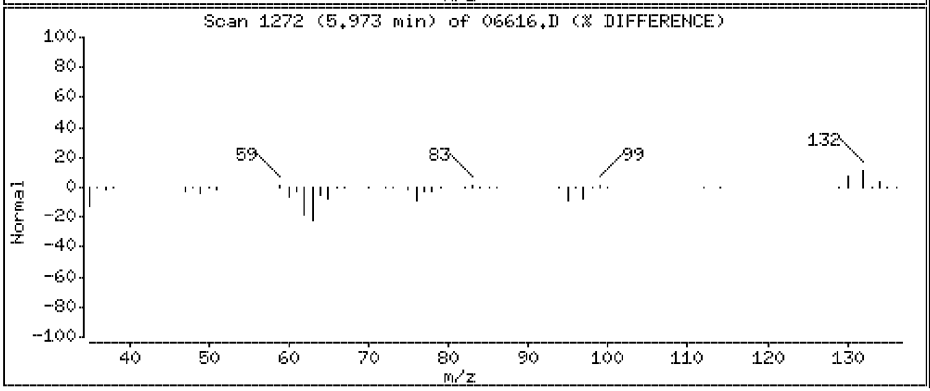
51 Trichloroethene

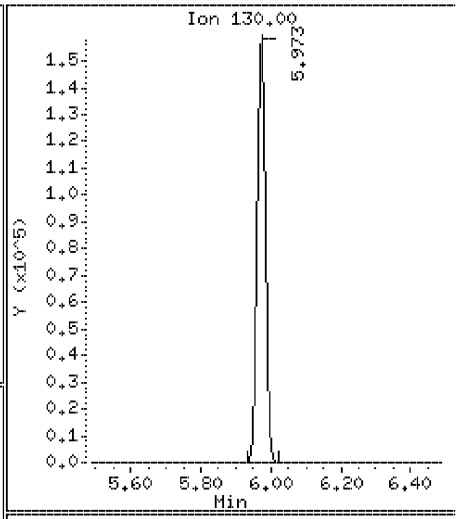
Concentration: 6320 ppbv

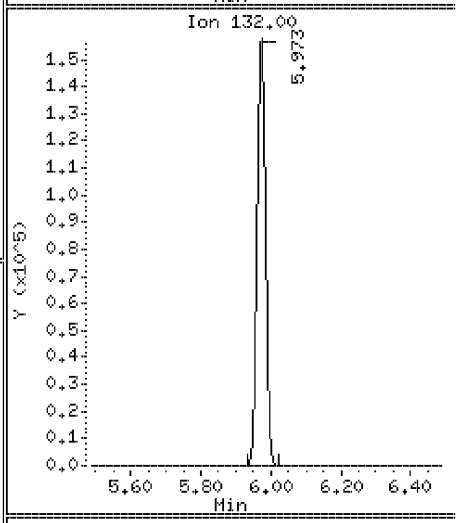


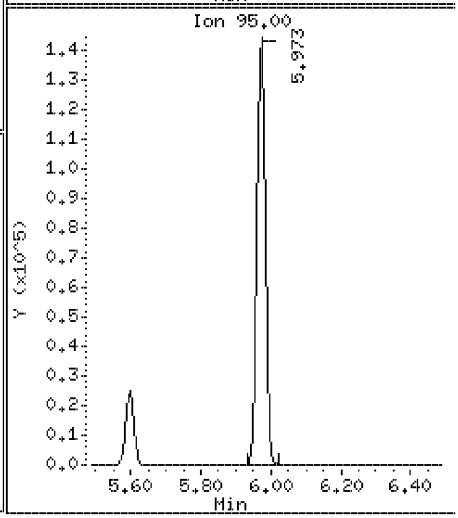












Data File: \\192.168.10.12\chem\10airB.i\030717.b/06616.D
Injection Date: 07-MAR-2017 15:42
Instrument: 10airB.i
Lab Sample ID: 10380193016
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_60_20170223 **Lab ID: 10380193017** Collected: 02/23/17 12:48 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<14.6**	ug/m3	42.2	14.6	17.5		03/07/17 02:54	67-64-1	
Allyl chloride	**<4.0**	ug/m3	27.8	4.0	17.5		03/07/17 02:54	107-05-1	
Benzene	**4.2J**	ug/m3	5.7	2.1	17.5		03/07/17 02:54	71-43-2	
Bromodichloromethane	**<3.4**	ug/m3	23.8	3.4	17.5		03/07/17 02:54	75-27-4	
Bromoform	**<15.8**	ug/m3	36.8	15.8	17.5		03/07/17 02:54	75-25-2	
Bromomethane	**<5.4**	ug/m3	13.8	5.4	17.5		03/07/17 02:54	74-83-9	
1,3-Butadiene	**<3.1**	ug/m3	7.9	3.1	17.5		03/07/17 02:54	106-99-0	
2-Butanone (MEK)	**<4.0**	ug/m3	52.5	4.0	17.5		03/07/17 02:54	78-93-3	
Carbon disulfide	**<1.8**	ug/m3	11.0	1.8	17.5		03/07/17 02:54	75-15-0	
Carbon tetrachloride	**<3.4**	ug/m3	11.2	3.4	17.5		03/07/17 02:54	56-23-5	
Chlorobenzene	**<2.3**	ug/m3	16.4	2.3	17.5		03/07/17 02:54	108-90-7	
Chlorodifluoromethane	**166**	ug/m3	12.6	4.8	17.5		03/07/17 02:54	75-45-6	
Chloroethane	**<3.4**	ug/m3	9.4	3.4	17.5		03/07/17 02:54	75-00-3	
Chloroform	**21.6**	ug/m3	8.7	3.3	17.5		03/07/17 02:54	67-66-3	
Chloromethane	**<1.9**	ug/m3	7.4	1.9	17.5		03/07/17 02:54	74-87-3	
Chloropentafluoroethane	**<56.2**	ug/m3	56.2	56.2	17.5		03/07/17 02:54	76-15-3	CH
Cyclohexane	**<5.5**	ug/m3	12.2	5.5	17.5		03/07/17 02:54	110-82-7	
1,2-Dibromo-3-chloropropane	**<85.9**	ug/m3	85.9	85.9	17.5		03/07/17 02:54	96-12-8	
Dibromochloromethane	**<15.0**	ug/m3	30.3	15.0	17.5		03/07/17 02:54	124-48-1	
1,2-Dibromoethane (EDB)	**<13.5**	ug/m3	27.3	13.5	17.5		03/07/17 02:54	106-93-4	
1,2-Dichlorobenzene	**<9.0**	ug/m3	21.4	9.0	17.5		03/07/17 02:54	95-50-1	
1,3-Dichlorobenzene	**<9.3**	ug/m3	21.4	9.3	17.5		03/07/17 02:54	541-73-1	
1,4-Dichlorobenzene	**<8.7**	ug/m3	21.4	8.7	17.5		03/07/17 02:54	106-46-7	
Dichlorodifluoromethane	**<8.4**	ug/m3	17.7	8.4	17.5		03/07/17 02:54	75-71-8	
1,1-Dichloroethane	**<2.7**	ug/m3	14.4	2.7	17.5		03/07/17 02:54	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/m3	7.2	3.6	17.5		03/07/17 02:54	107-06-2	
1,1-Dichloroethene	**<4.2**	ug/m3	14.2	4.2	17.5		03/07/17 02:54	75-35-4	
cis-1,2-Dichloroethene	**850**	ug/m3	14.2	4.3	17.5		03/07/17 02:54	156-59-2	
trans-1,2-Dichloroethene	**11.6J**	ug/m3	14.2	6.7	17.5		03/07/17 02:54	156-60-5	
1,2-Dichloropropane	**<4.7**	ug/m3	16.4	4.7	17.5		03/07/17 02:54	78-87-5	
cis-1,3-Dichloropropene	**<6.5**	ug/m3	16.1	6.5	17.5		03/07/17 02:54	10061-01-5	
trans-1,3-Dichloropropene	**<4.6**	ug/m3	16.1	4.6	17.5		03/07/17 02:54	10061-02-6	
Dichlorotetrafluoroethane	**<5.4**	ug/m3	24.8	5.4	17.5		03/07/17 02:54	76-14-2	
Freon 123	**<55.6**	ug/m3	55.6	55.6	17.5		03/07/17 02:54	306-83-2	
1,4-Dioxane (p-Dioxane)	**<6.2**	ug/m3	64.0	6.2	17.5		03/07/17 02:54	123-91-1	
Ethylbenzene	**<7.4**	ug/m3	15.4	7.4	17.5		03/07/17 02:54	100-41-4	
4-Ethyltoluene	**<3.3**	ug/m3	17.5	3.3	17.5		03/07/17 02:54	622-96-8	
Hexachloro-1,3-butadiene	**<11.4**	ug/m3	37.9	11.4	17.5		03/07/17 02:54	87-68-3	
n-Hexane	**<6.2**	ug/m3	12.6	6.2	17.5		03/07/17 02:54	110-54-3	
2-Hexanone	**<7.2**	ug/m3	72.9	7.2	17.5		03/07/17 02:54	591-78-6	
Isopropylbenzene (Cumene)	**<2.4**	ug/m3	43.8	2.4	17.5		03/07/17 02:54	98-82-8	
Methyl acetate	**<27.0**	ug/m3	27.0	27.0	17.5		03/07/17 02:54	79-20-9	
Methylcyclohexane	**<4.2**	ug/m3	14.3	4.2	17.5		03/07/17 02:54	108-87-2	
Methylene Chloride	**<9.5**	ug/m3	61.8	9.5	17.5		03/07/17 02:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.8**	ug/m3	72.9	3.8	17.5		03/07/17 02:54	108-10-1	
Methyl-tert-butyl ether	**<5.3**	ug/m3	64.1	5.3	17.5		03/07/17 02:54	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D
Report Date: 07-Mar-2017 10:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06537.D
Lab Smp Id: 10380193017
Inj Date : 07-MAR-2017 02:54
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27846
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 09:17 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 37
Dil Factor: 17.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	17.500	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.012	3.031	(0.537)	10184	2.63743	46.2(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.648	3.677	(0.651)	12359	0.33186	5.81	
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.931	3.954	(0.701)	63469	2.25683	39.5	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D
Report Date: 07-Mar-2017 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	4.240	4.278	(0.756)	1992	0.16392	2.87	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.799)	376826	8.71912	8.72	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.696	4.725	(0.838)	163694	12.0559	211(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.815	4.841	(0.859)	7014	0.24923	4.36	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.455	5.468	(0.973)	3249	0.07416	1.30(M)	
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.606	5.613	(1.000)	1358412	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.983	5.989	(1.067)	2690841	117.896	2060(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.072	7.079	(1.262)	1162373	9.56043	9.56	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.150	7.153	(1.275)	16101	0.29347	5.14	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.989	(0.924)	442626	14.3066	250	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	890984	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D
Report Date: 07-Mar-2017 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	440965	8.98438	8.98	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D
Report Date: 07-Mar-2017 10:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06537.D
Lab Smp Id: 10380193017
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27846

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

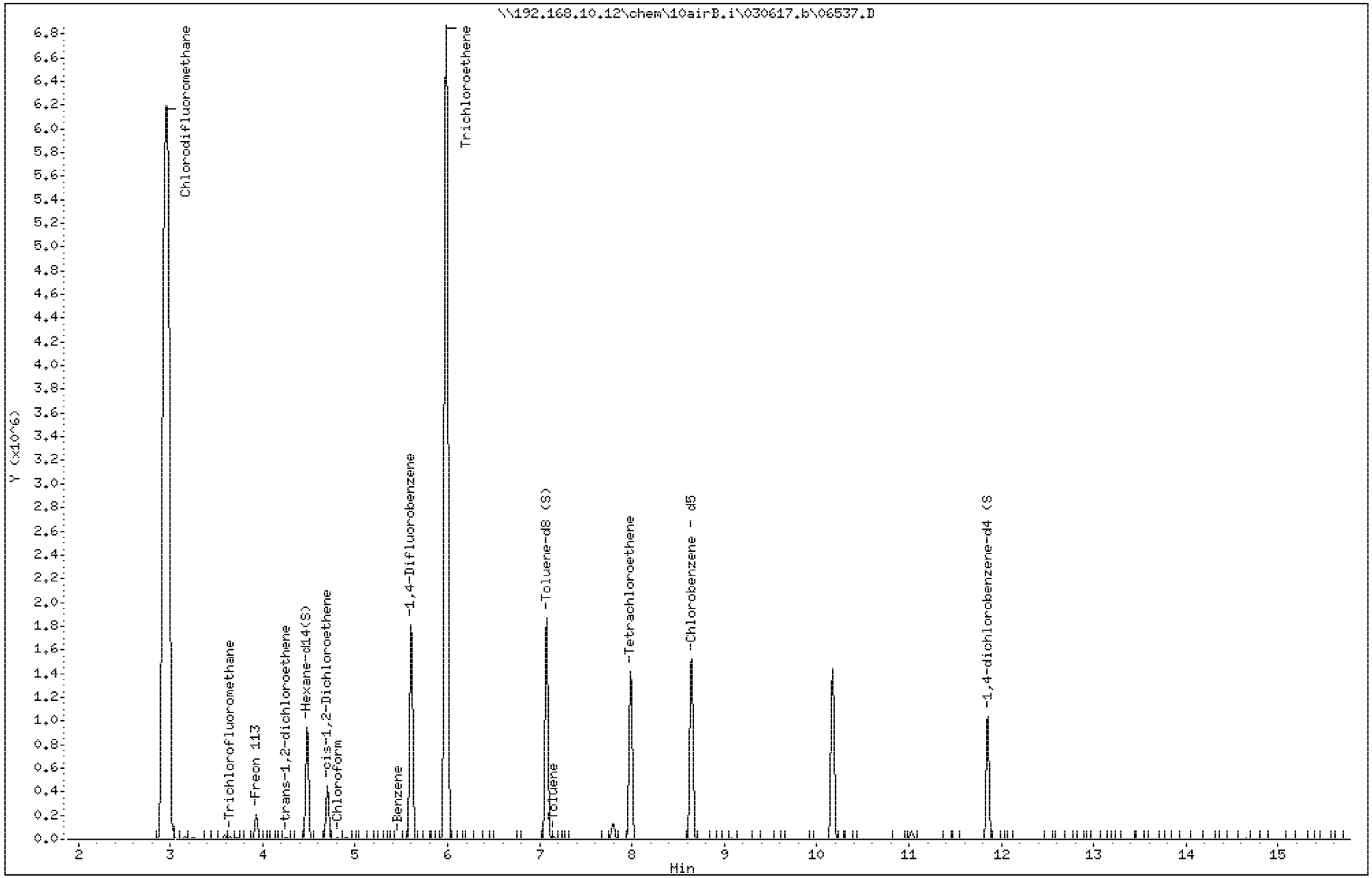
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1358412	-3.94
67 Chlorobenzene - d	951026	570616	1331436	890984	-6.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D
Date : 07-MAR-2017 02:54
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D

Date : 07-MAR-2017 02:54

Client ID:

Instrument: 10airB.i

Sample Info:

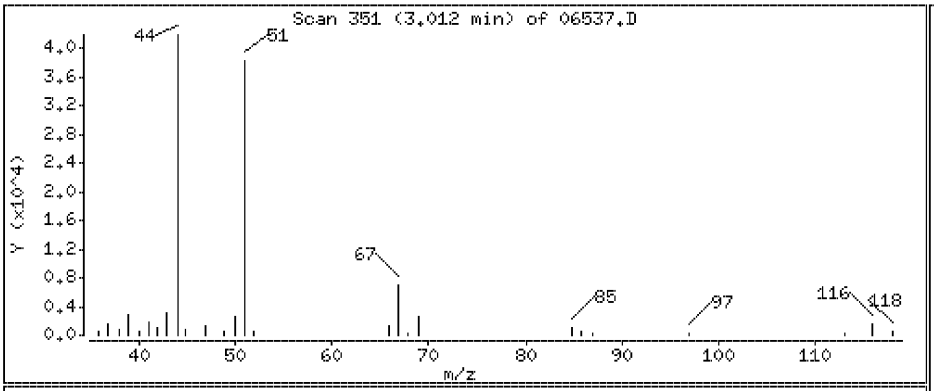
Operator: NCK

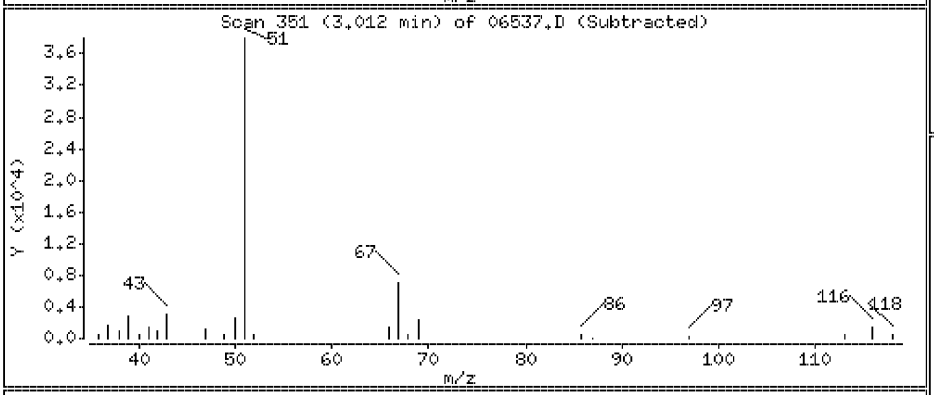
Column phase: J&W DB-5

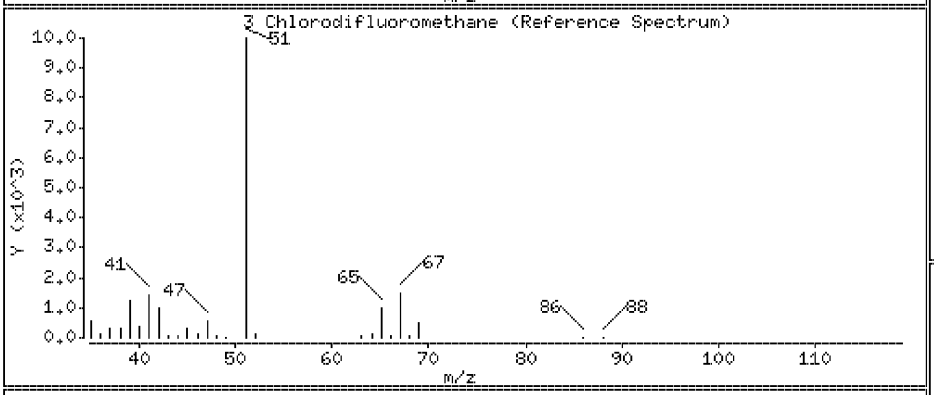
Column diameter: 0.32

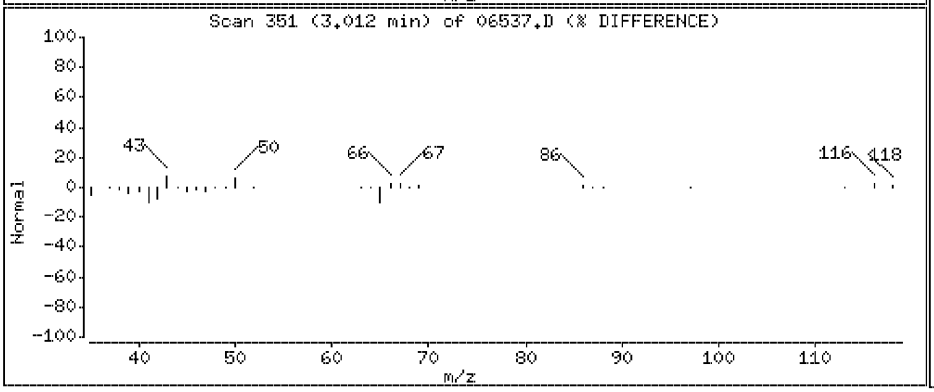
3 Chlorodifluoromethane

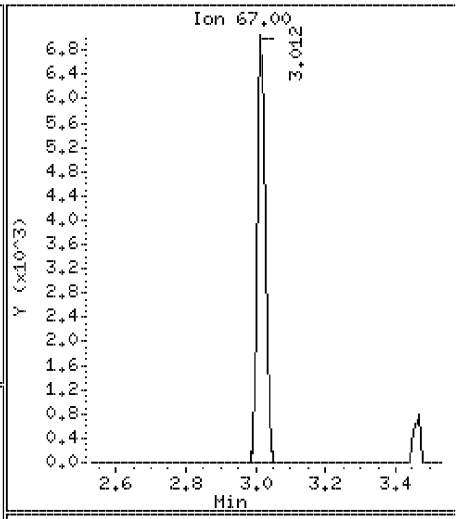
Concentration: 46.2 ppbv

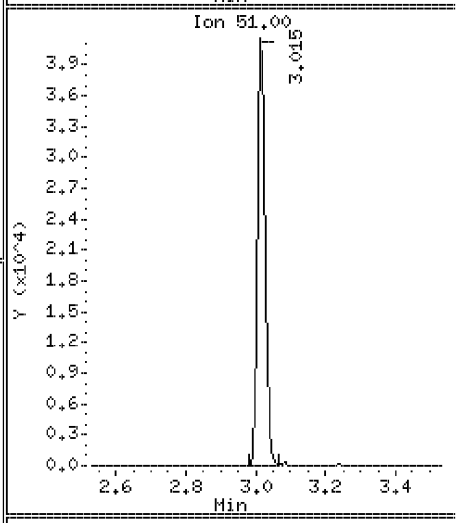


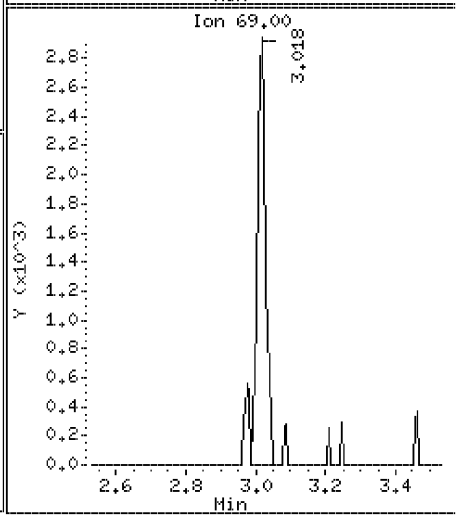












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D

Date : 07-MAR-2017 02:54

Client ID:

Instrument: 10airB.i

Sample Info:

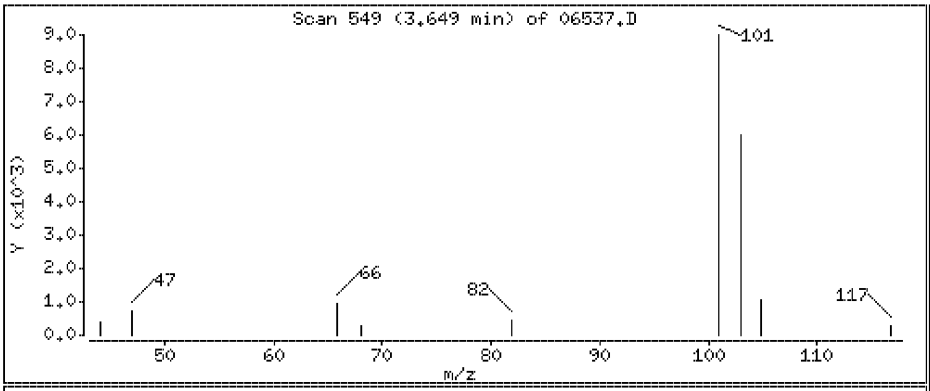
Operator: NCK

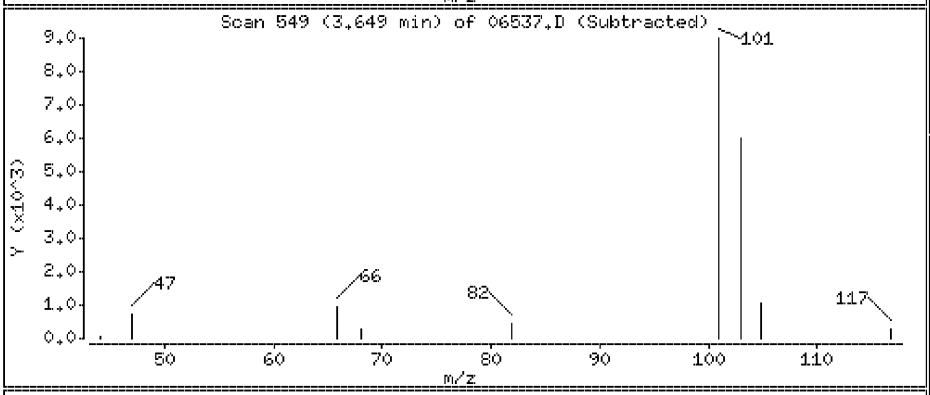
Column phase: J&W DB-5

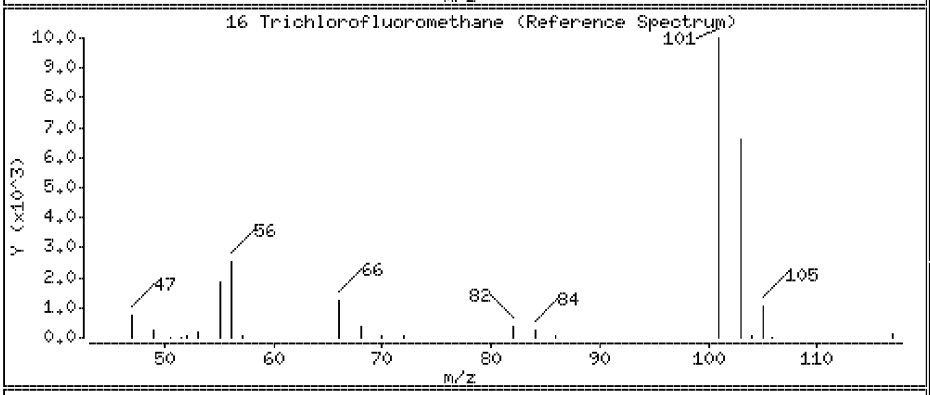
Column diameter: 0.32

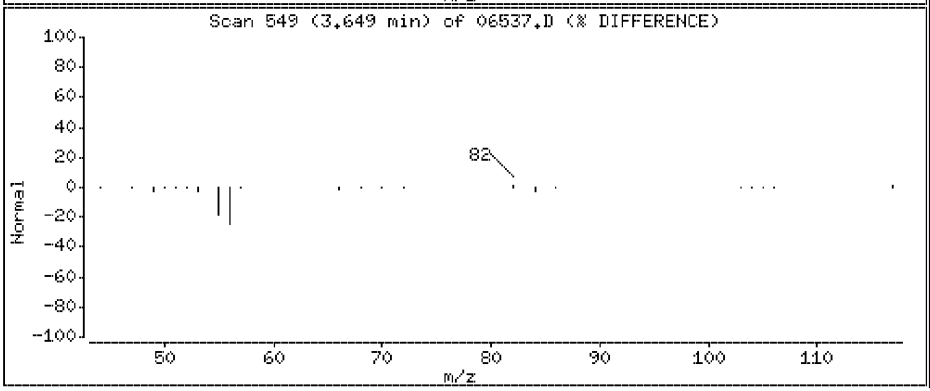
16 Trichlorofluoromethane

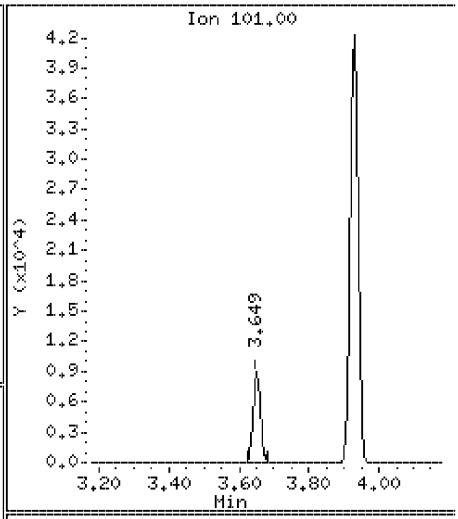
Concentration: 5.81 ppbv

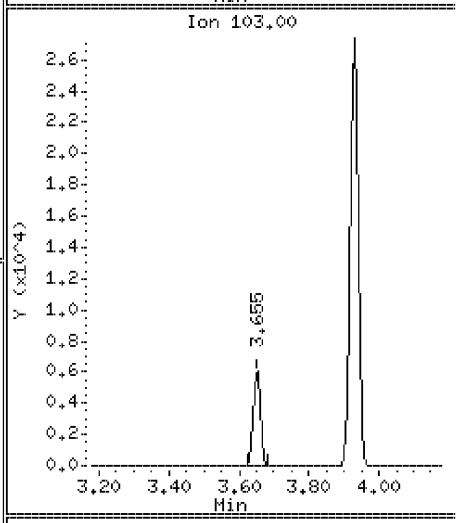


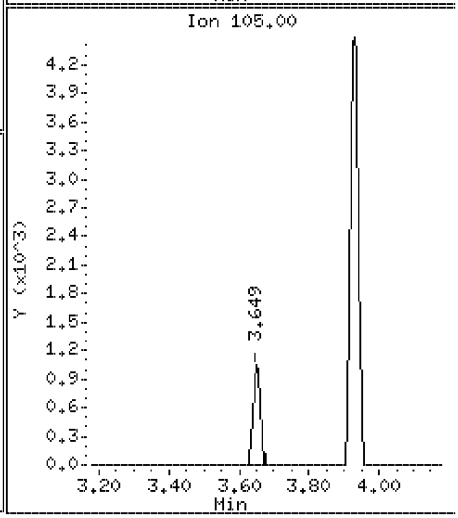












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D

Date : 07-MAR-2017 02:54

Client ID:

Instrument: 10airB.i

Sample Info:

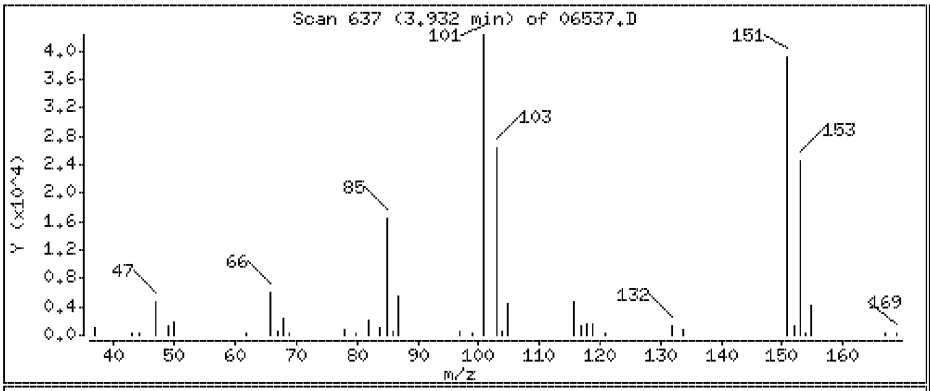
Operator: NCK

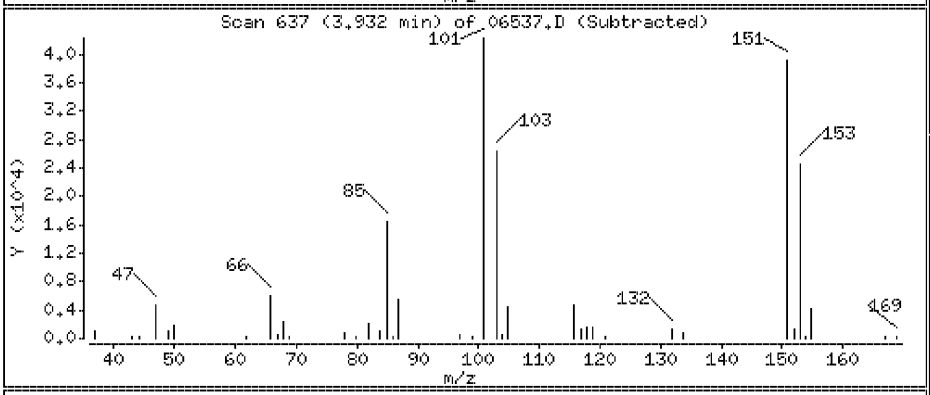
Column phase: J&W DB-5

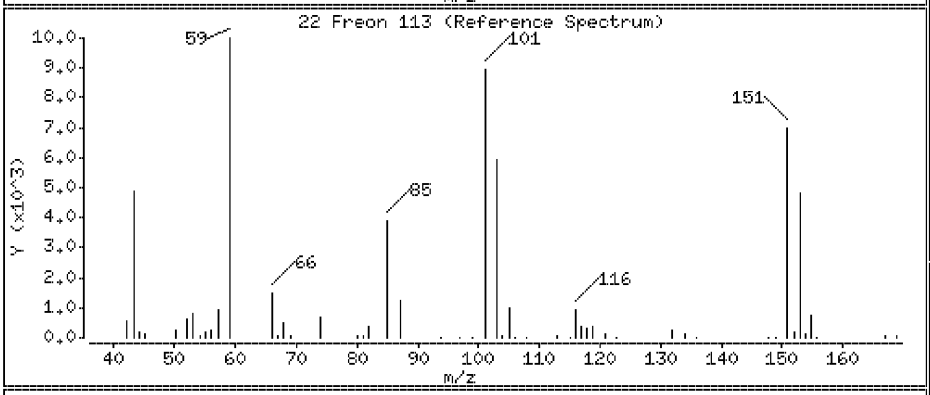
Column diameter: 0.32

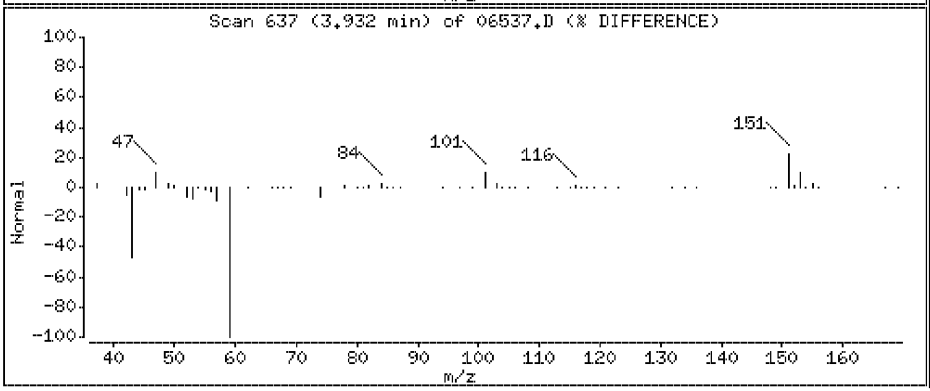
22 Freon 113

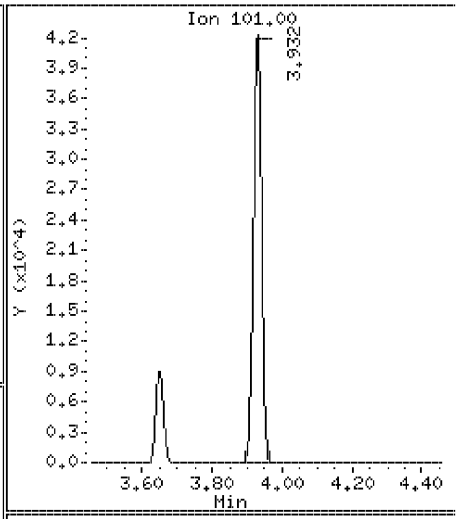
Concentration: 39.5 ppbv

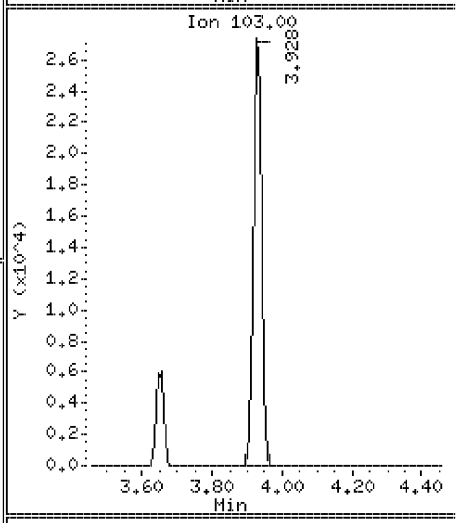


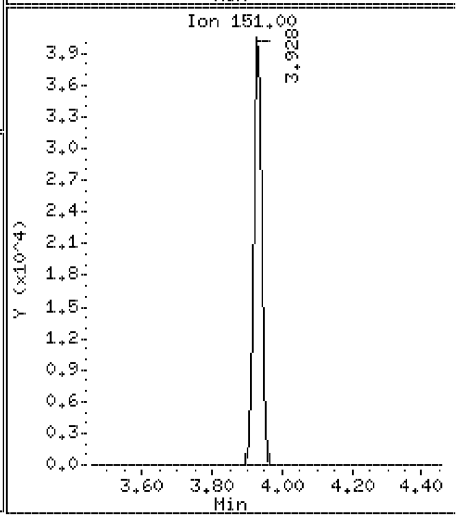












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D

Date : 07-MAR-2017 02:54

Client ID:

Instrument: 10airB.i

Sample Info:

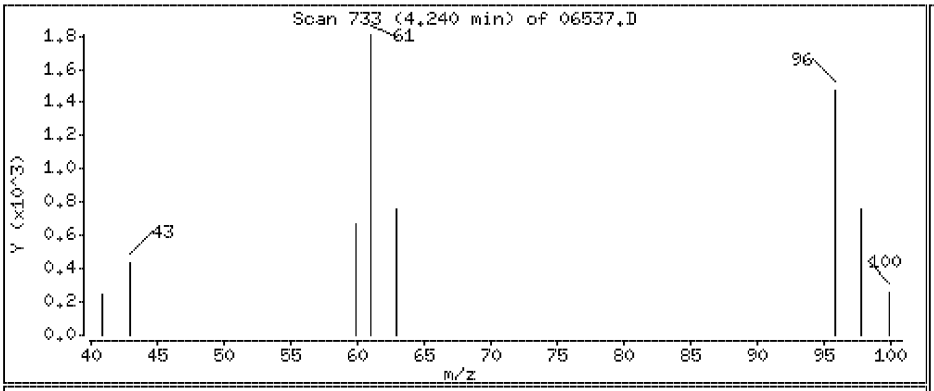
Operator: NCK

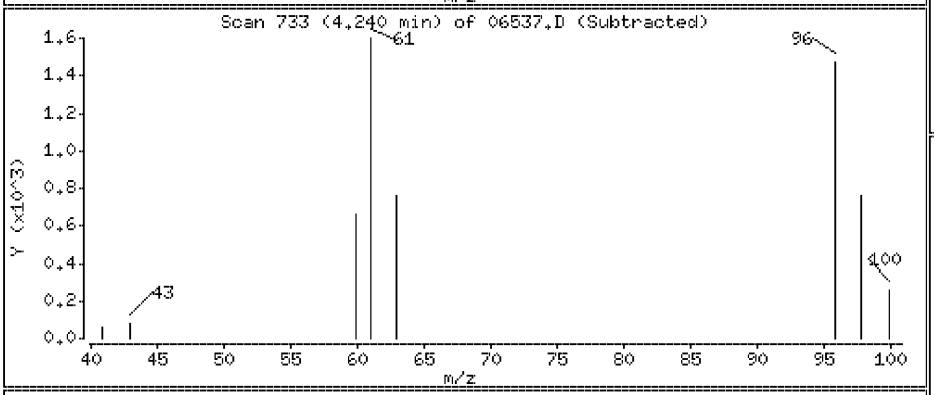
Column phase: J&W DB-5

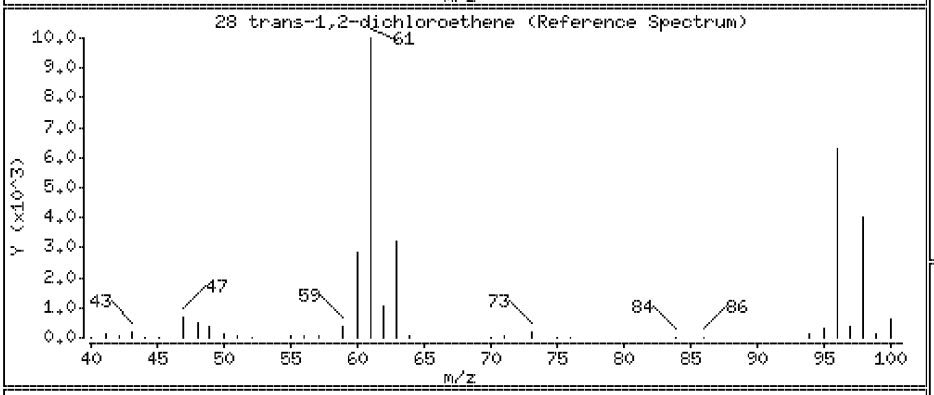
Column diameter: 0.32

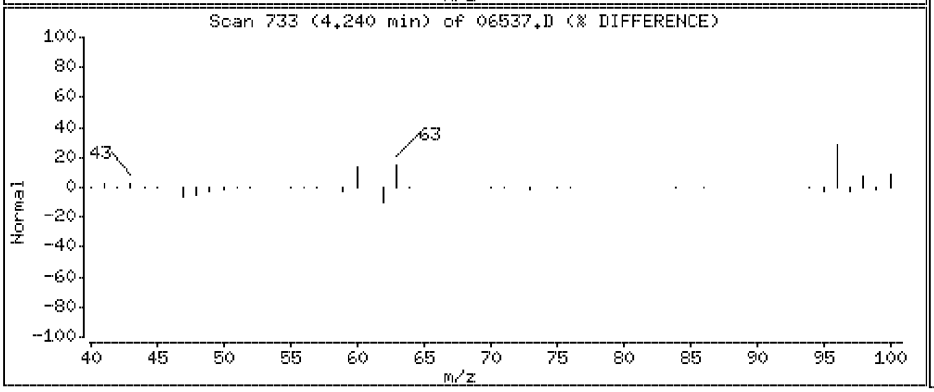
28 trans-1,2-dichloroethene

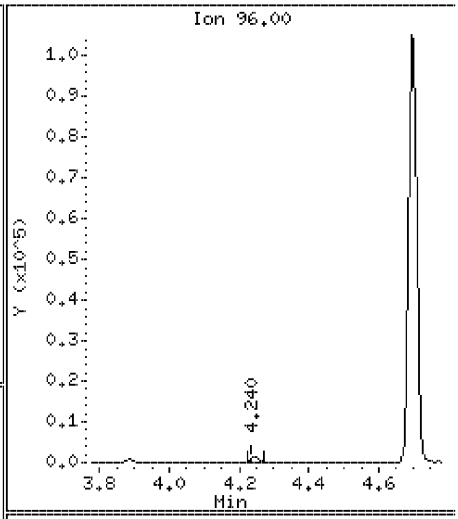
Concentration: 2.87 ppbv

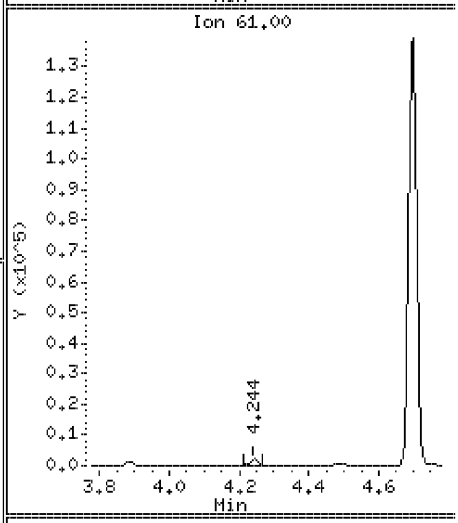


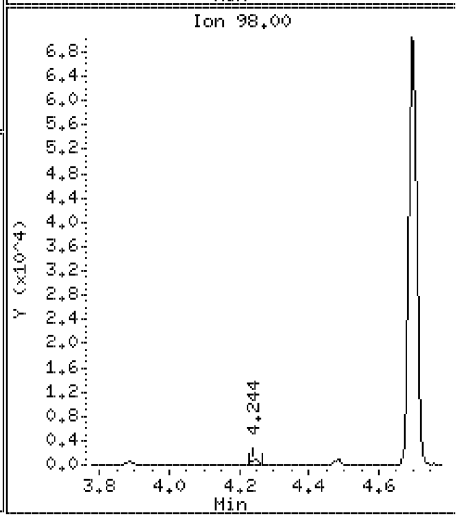












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D

Date : 07-MAR-2017 02:54

Client ID:

Instrument: 10airB.i

Sample Info:

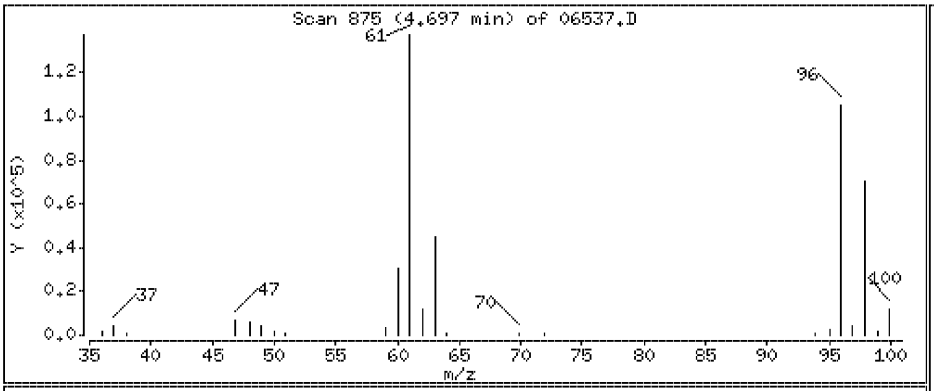
Operator: NCK

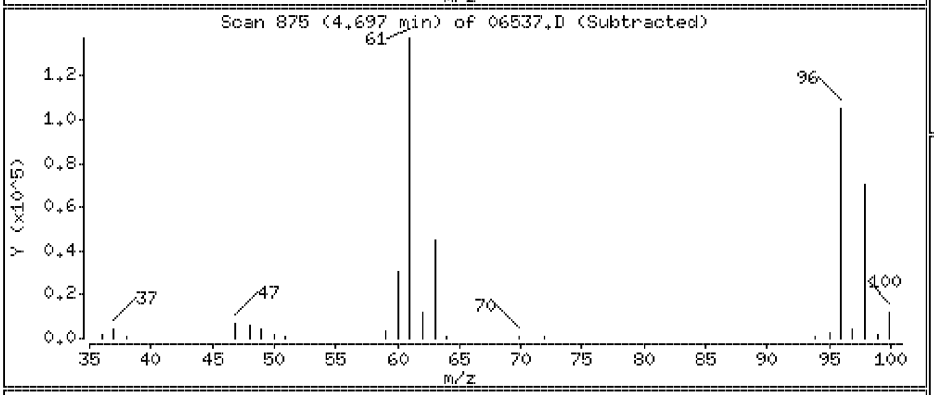
Column phase: J&W DB-5

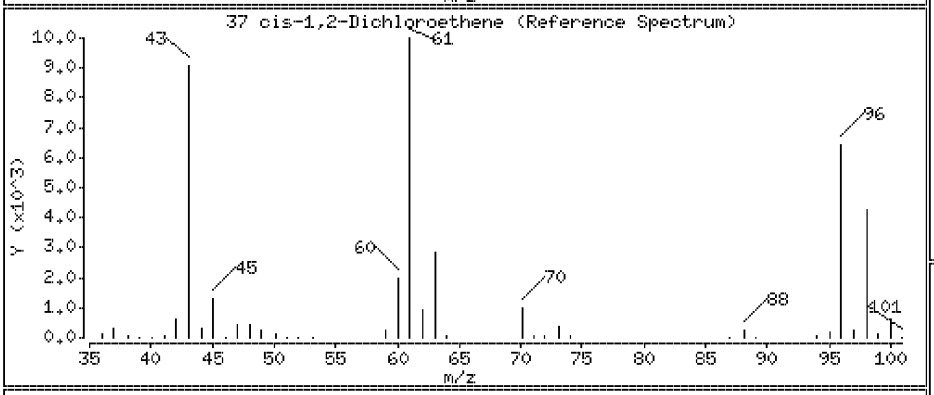
Column diameter: 0.32

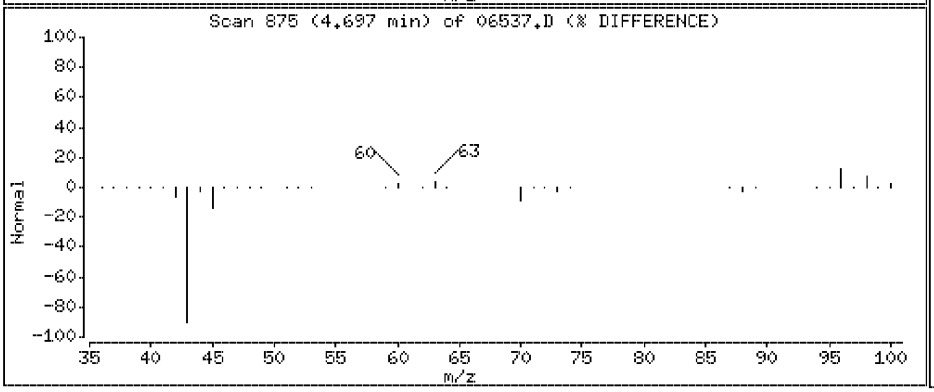
37 cis-1,2-Dichloroethene

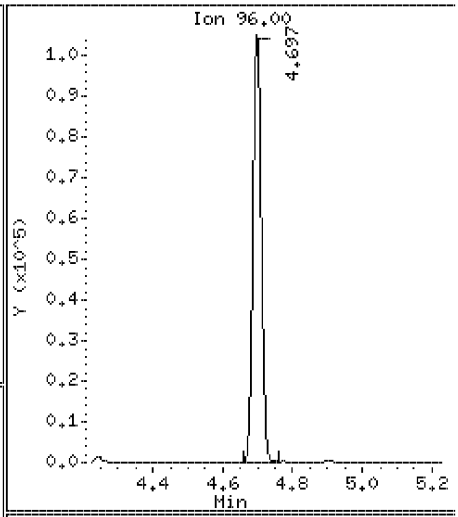
Concentration: 211 ppbv

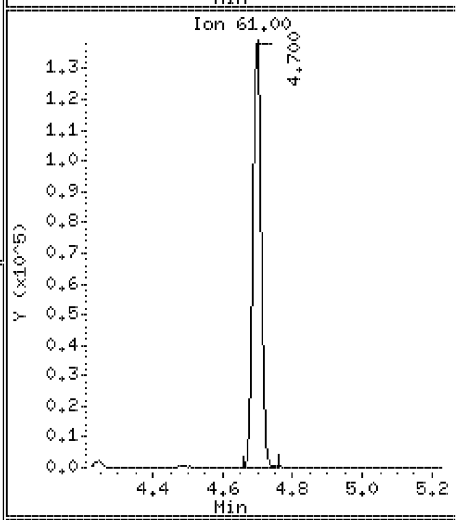


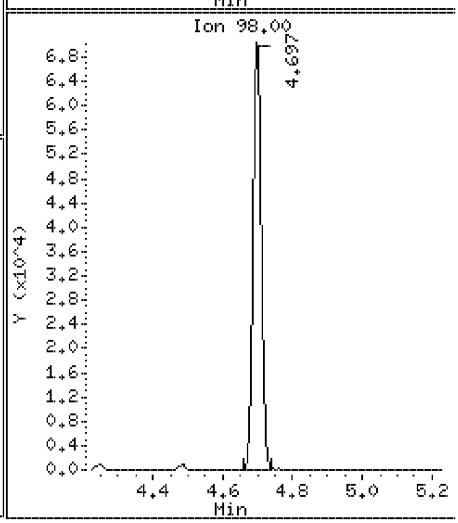












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D

Date : 07-MAR-2017 02:54

Client ID:

Instrument: 10airB.i

Sample Info:

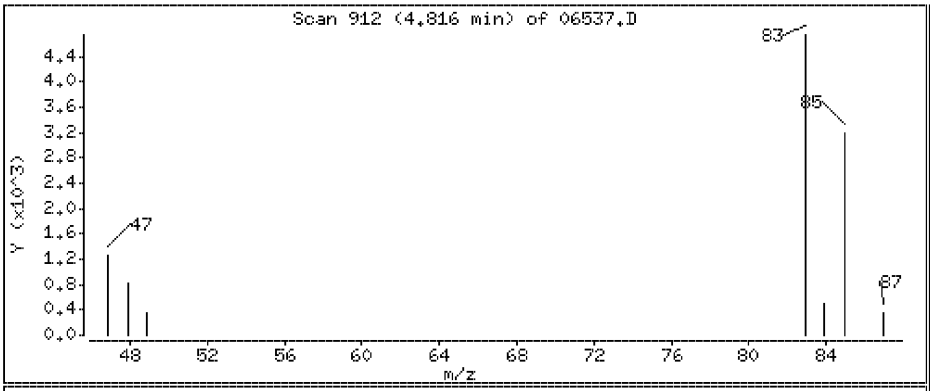
Operator: NCK

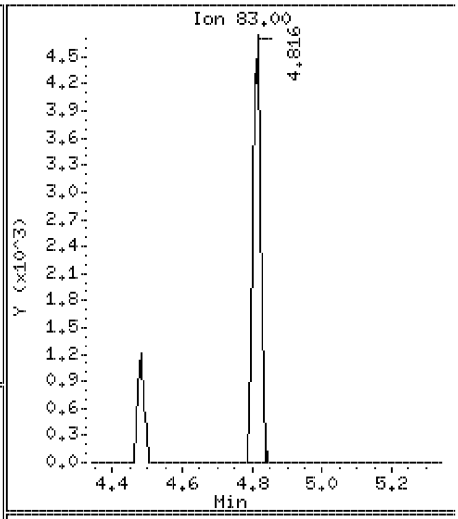
Column phase: J&W DB-5

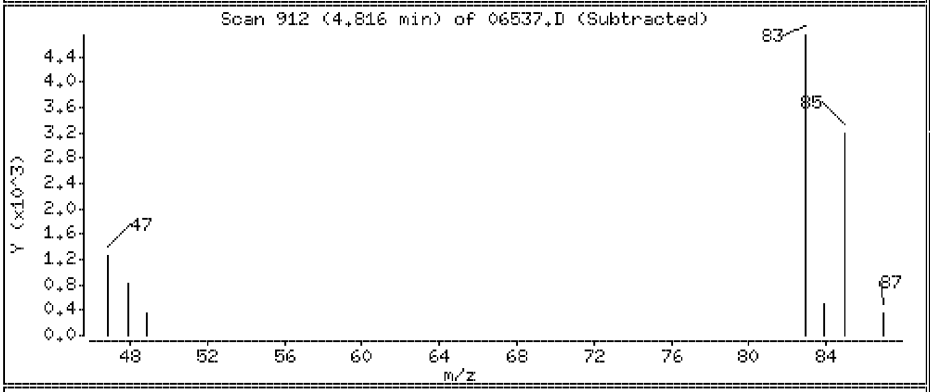
Column diameter: 0.32

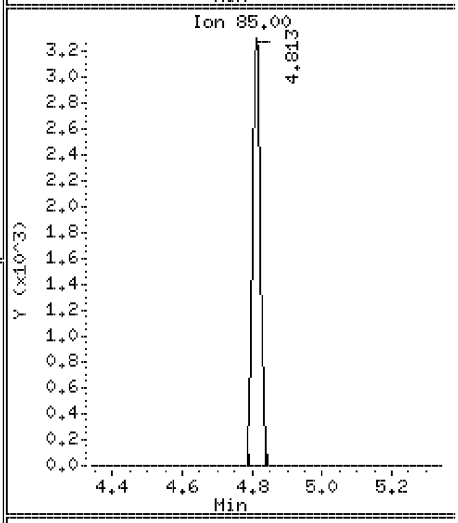
39 Chloroform

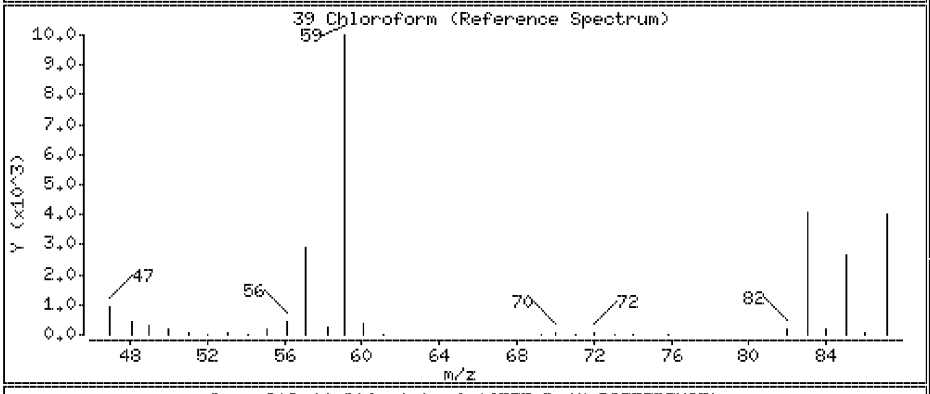
Concentration: 4.36 ppbv

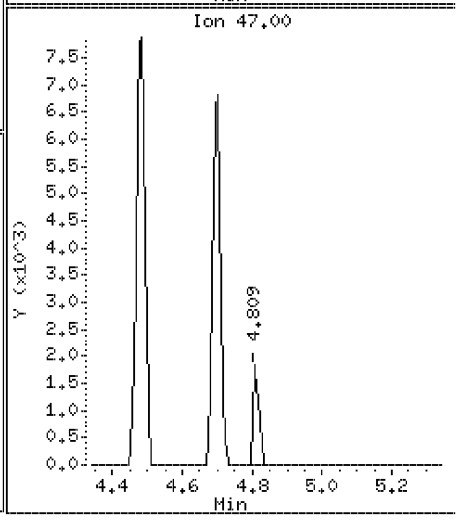


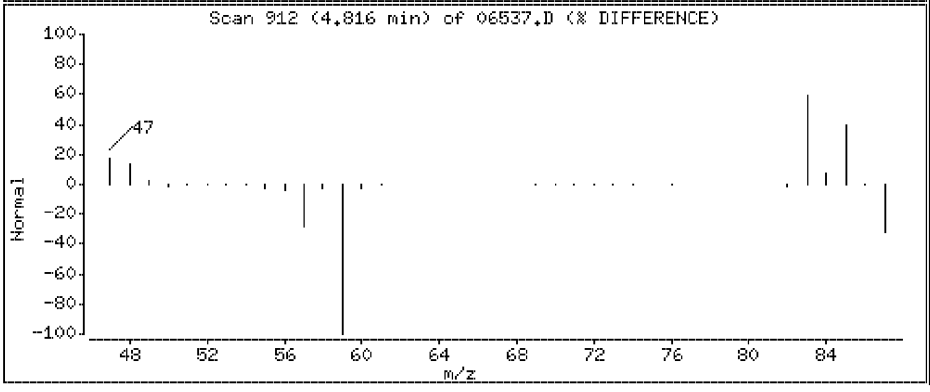












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D

Date : 07-MAR-2017 02:54

Client ID:

Instrument: 10airB.i

Sample Info:

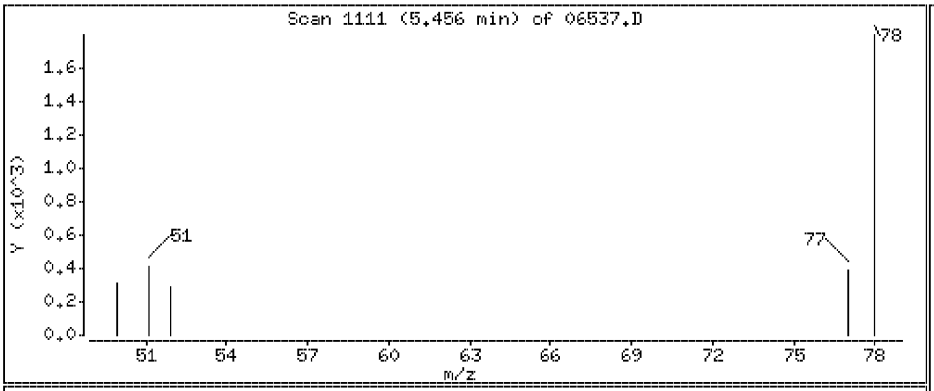
Operator: NCK

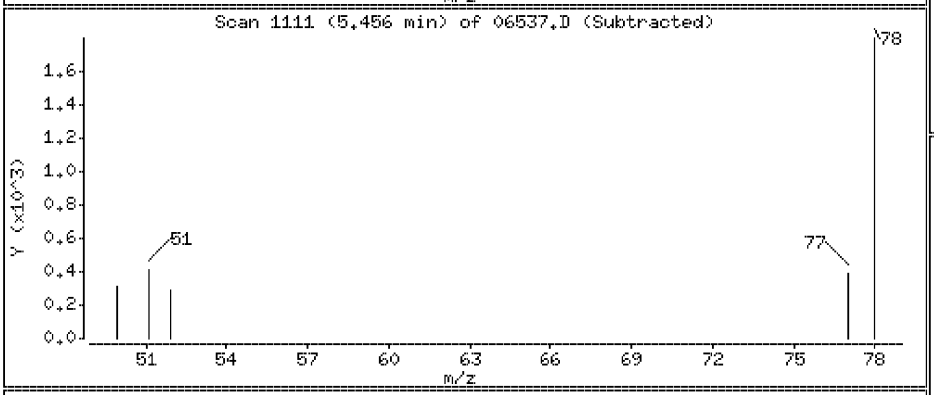
Column phase: J&W DB-5

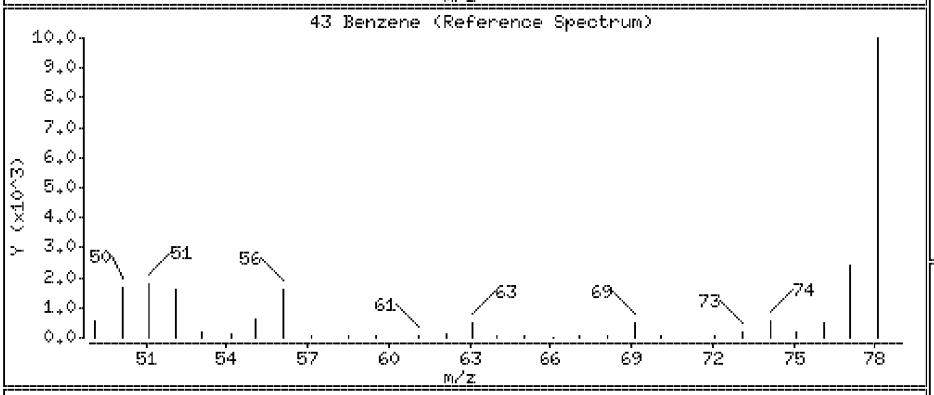
Column diameter: 0.32

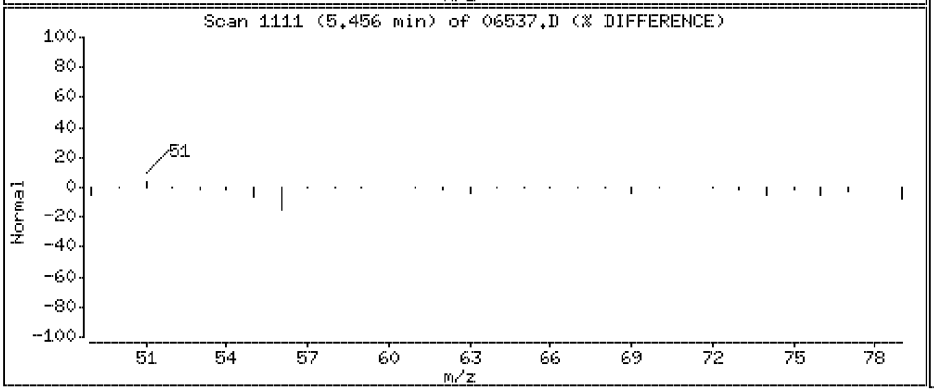
43 Benzene

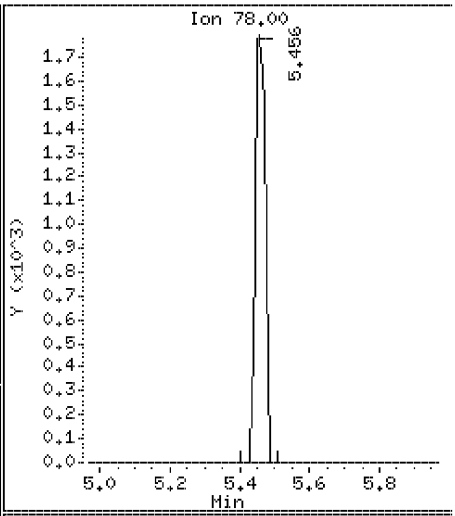
Concentration: 1.30 ppbv

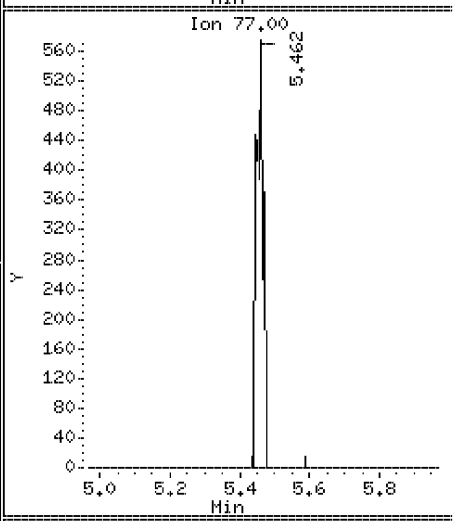


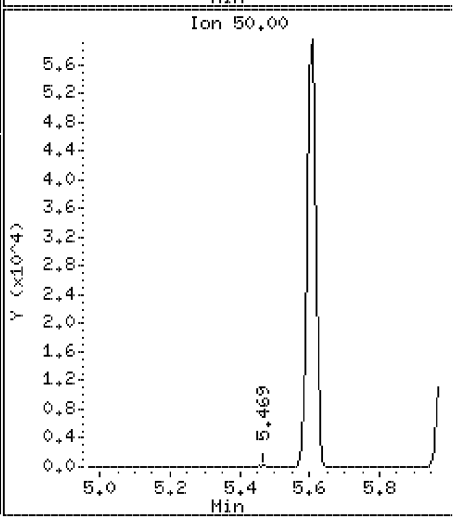












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D

Date : 07-MAR-2017 02:54

Client ID:

Instrument: 10airB.i

Sample Info:

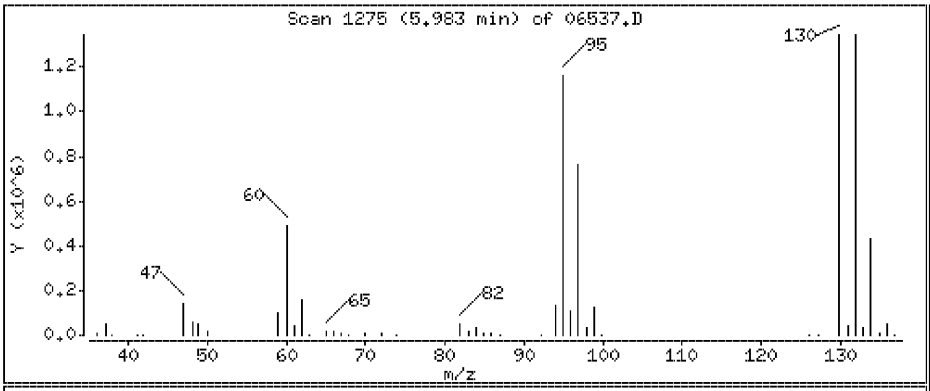
Operator: NCK

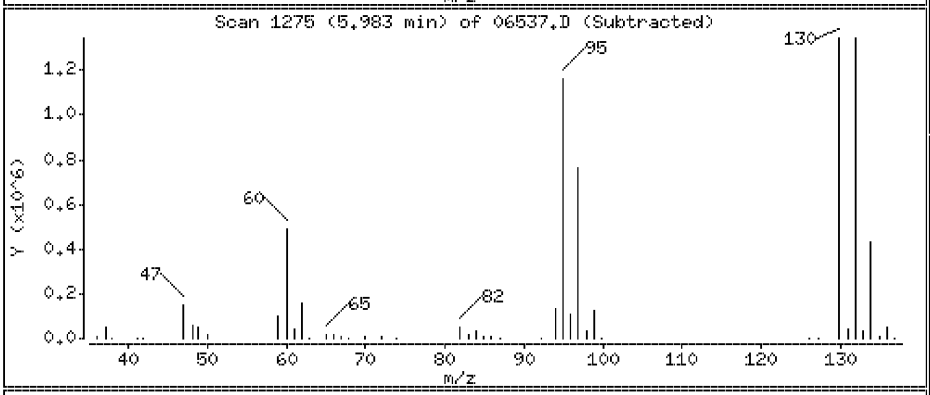
Column phase: J&W DB-5

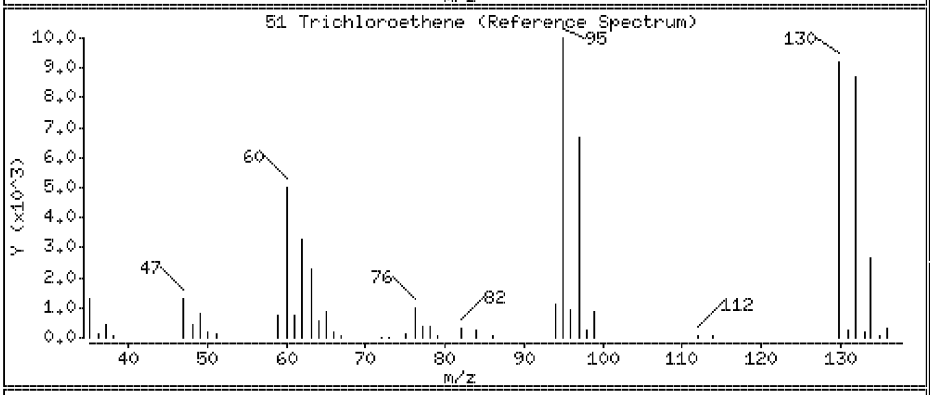
Column diameter: 0.32

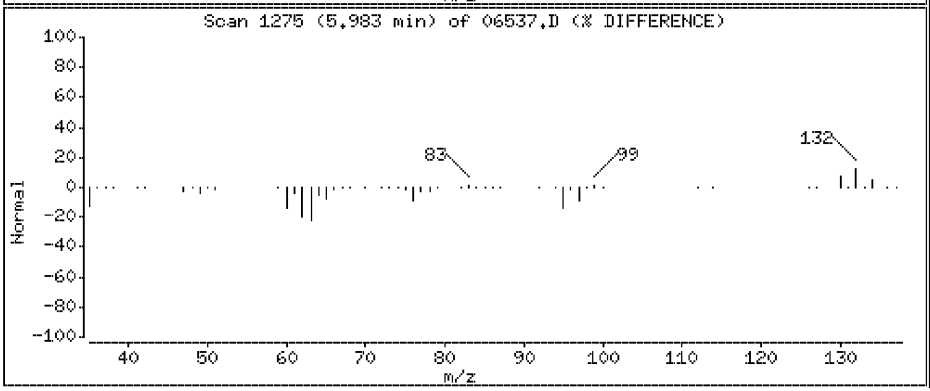
51 Trichloroethene

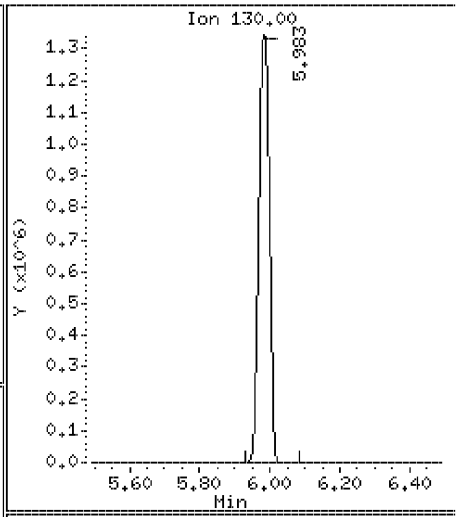
Concentration: 2060 ppbv

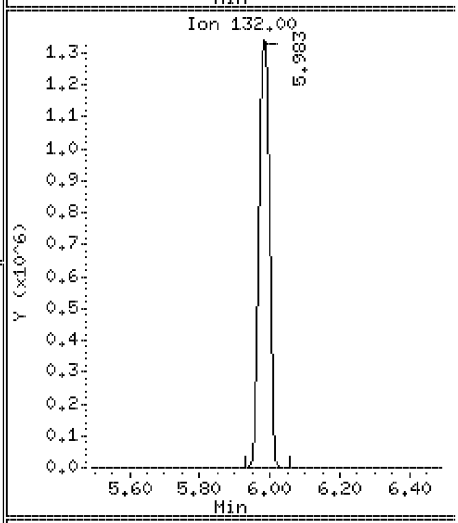


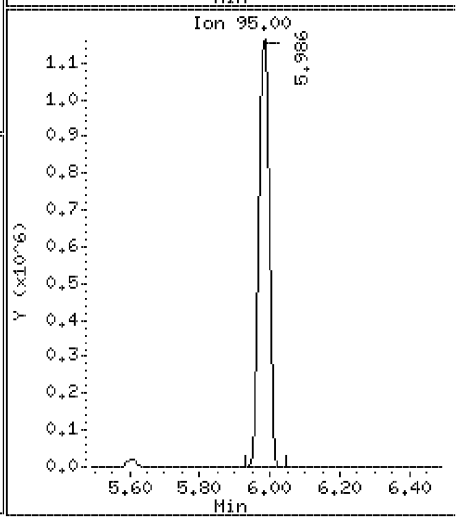












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D

Date : 07-MAR-2017 02:54

Client ID:

Instrument: 10airB.i

Sample Info:

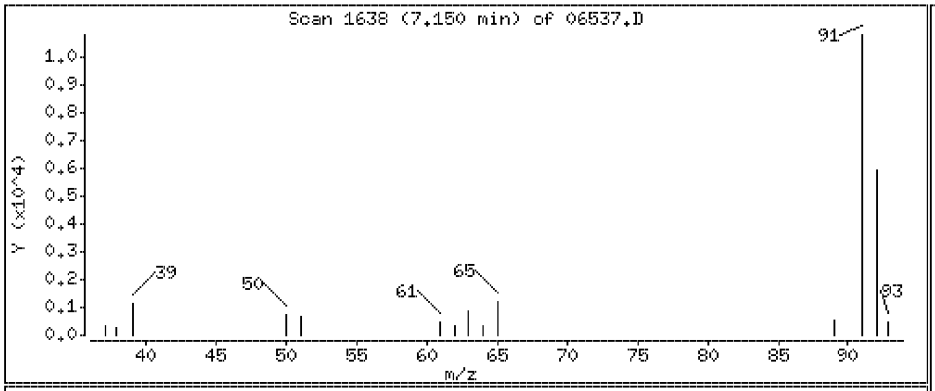
Operator: NCK

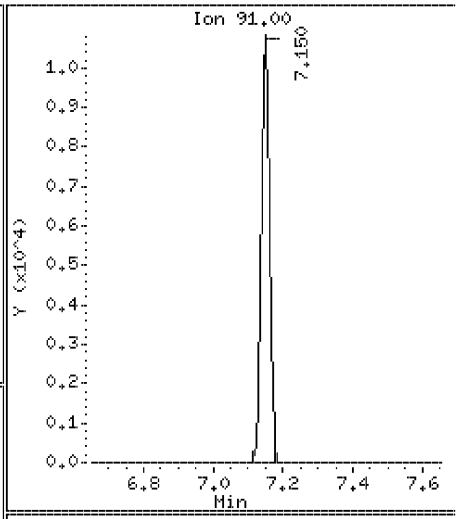
Column phase: J&W DB-5

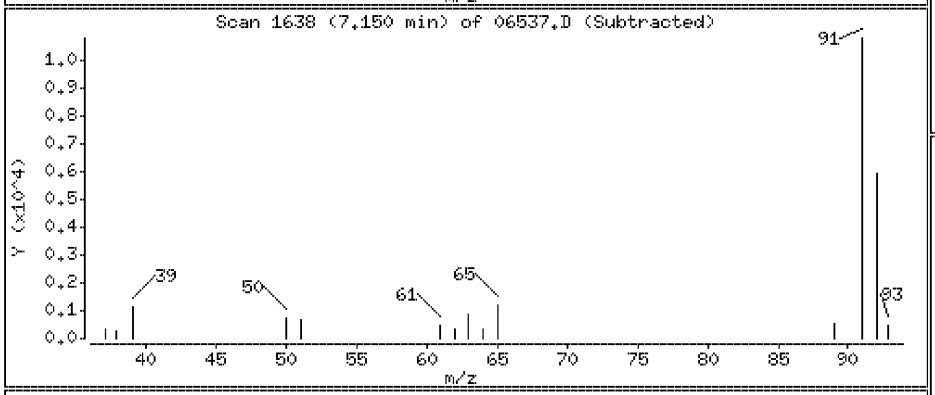
Column diameter: 0.32

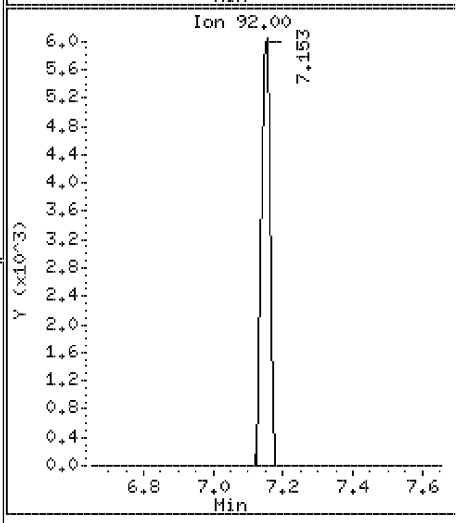
61 Toluene

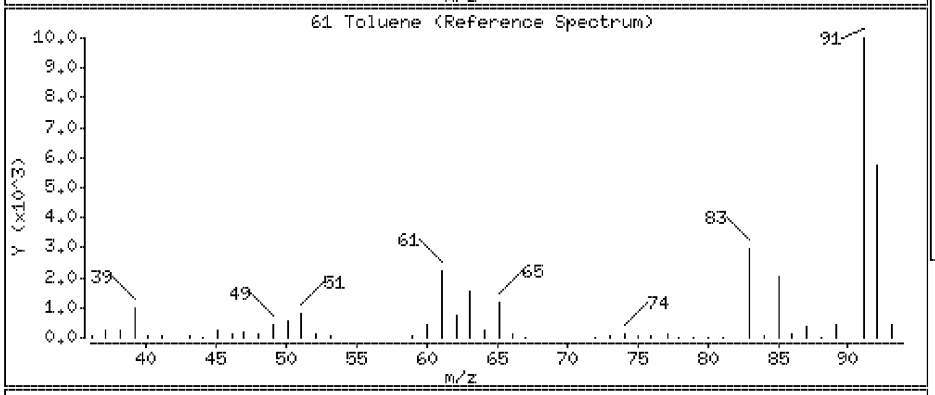
Concentration: 5.14 ppbv

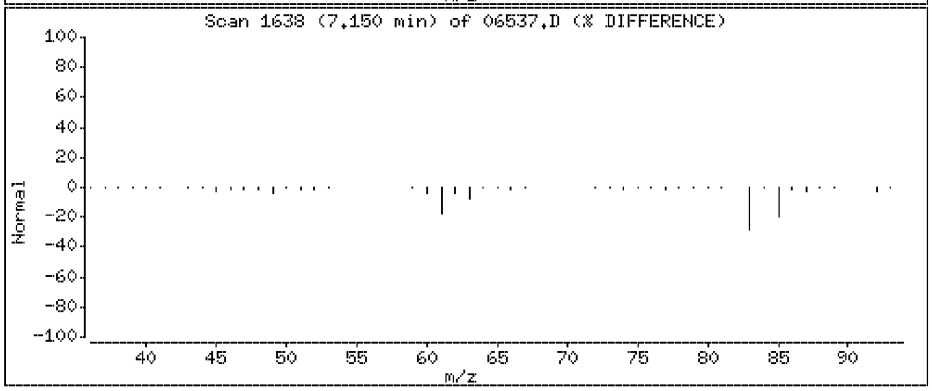












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06537.D

Date : 07-MAR-2017 02:54

Client ID:

Instrument: 10airB.i

Sample Info:

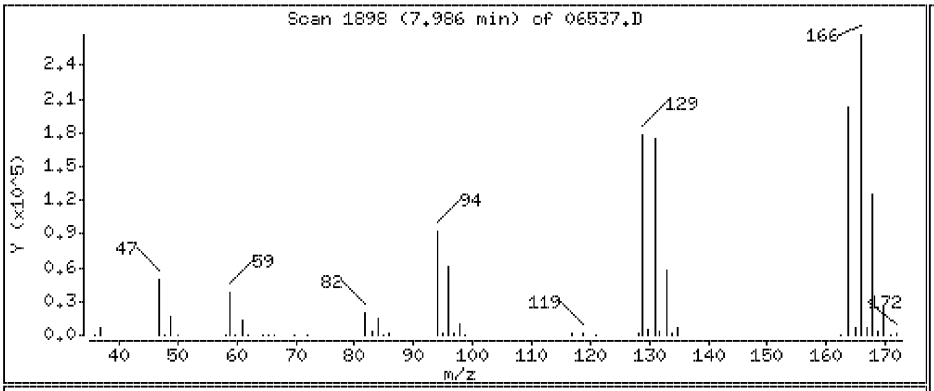
Operator: NCK

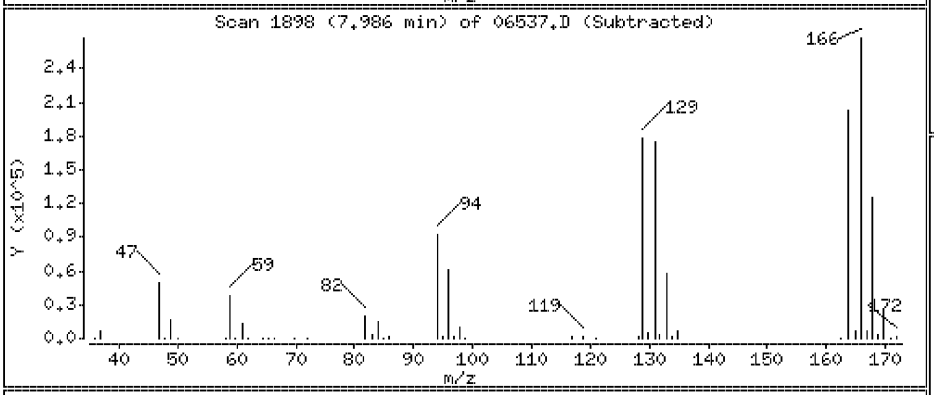
Column phase: J&W DB-5

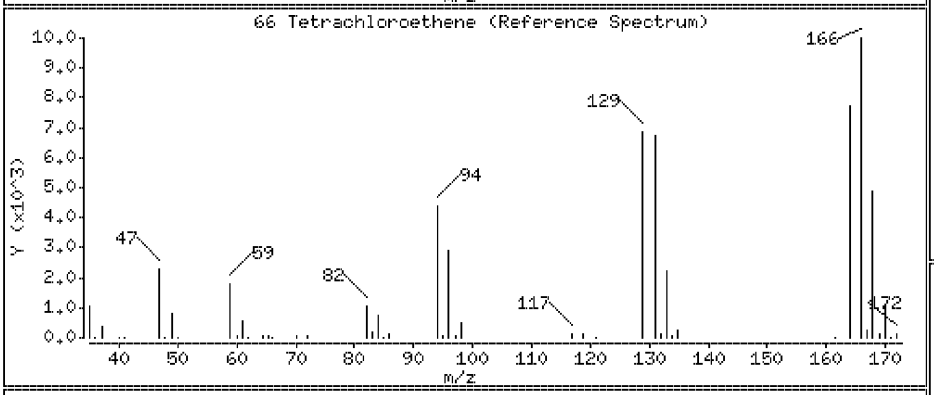
Column diameter: 0.32

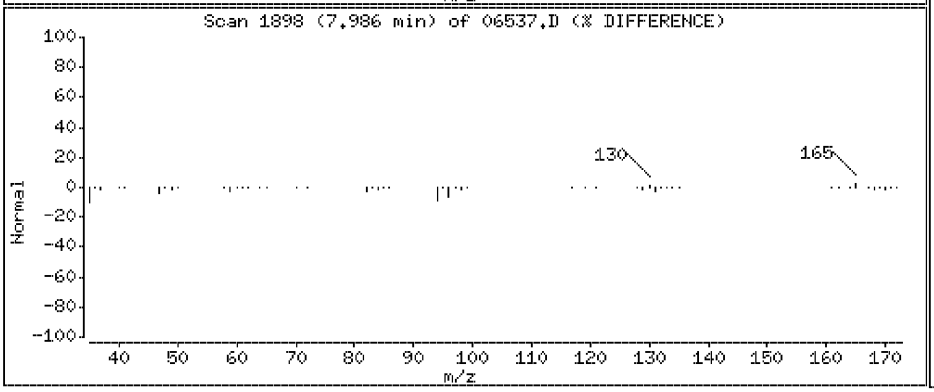
66 Tetrachloroethene

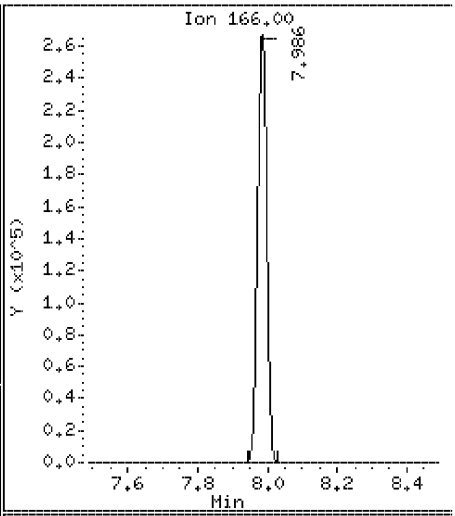
Concentration: 250 ppbv

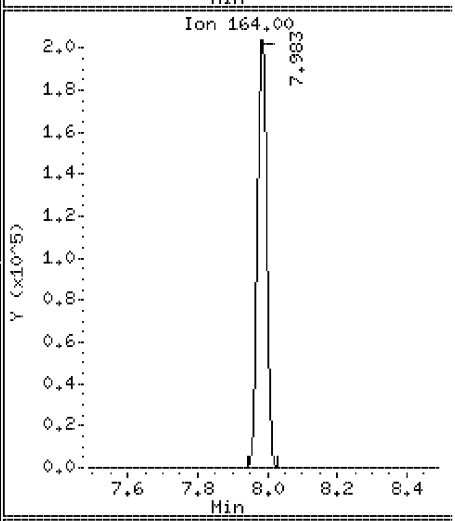


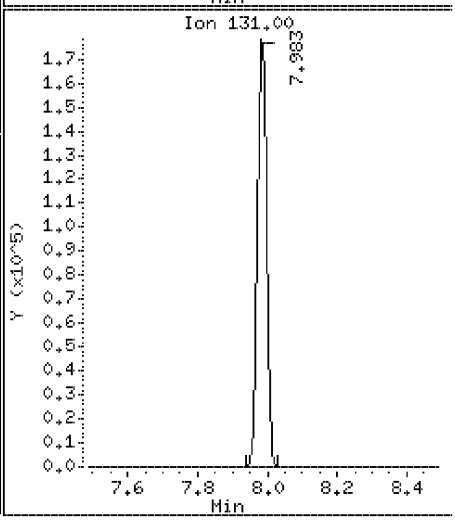






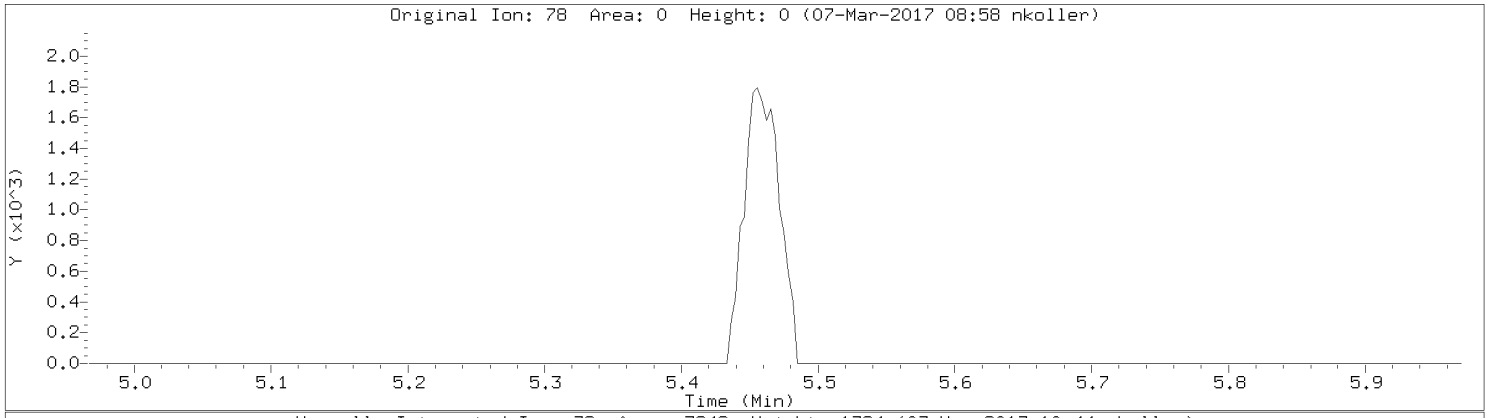


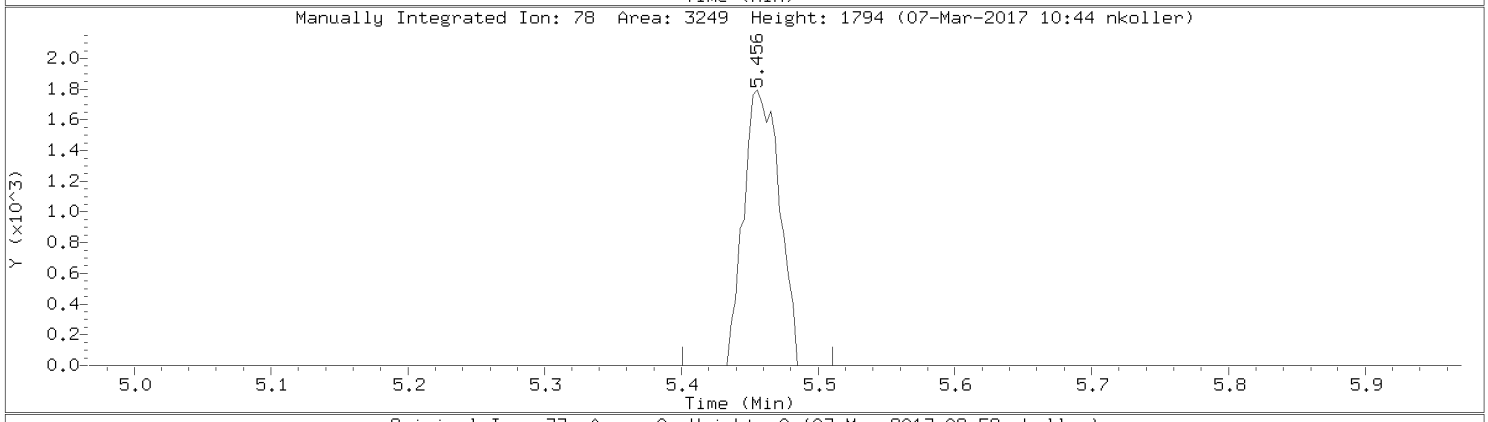


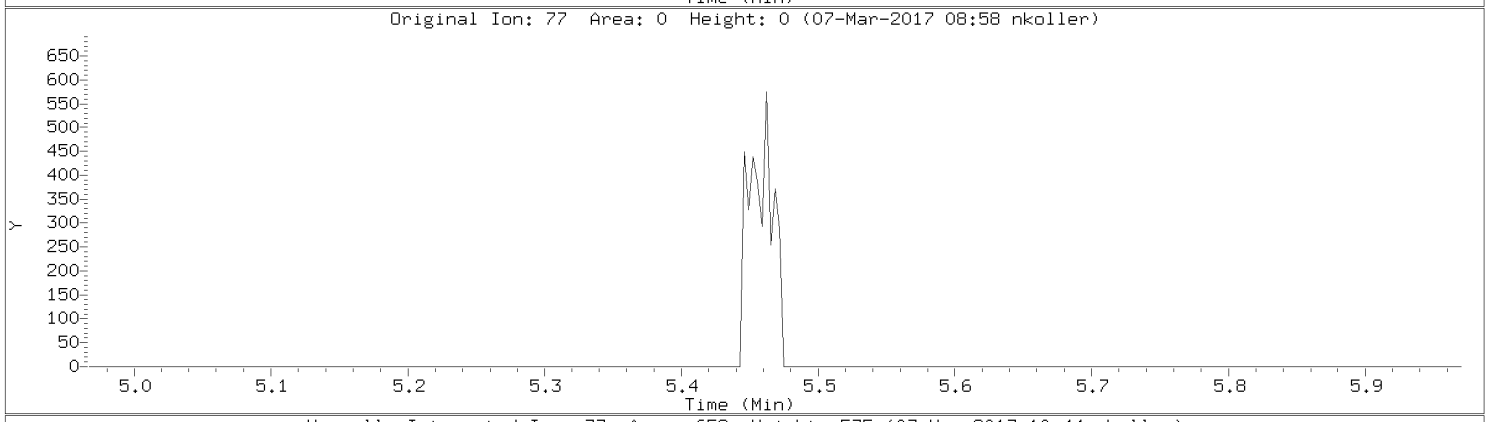


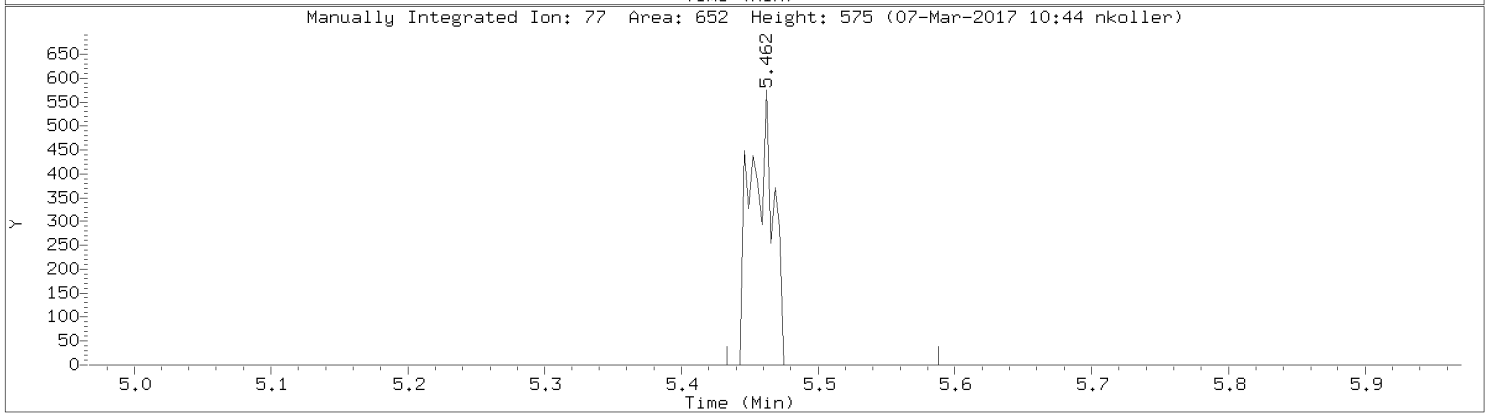
Data File: \\192.168.10.12\chem\10airB.i\030617.b/06537.D
Injection Date: 07-MAR-2017 02:54
Instrument: 10airB.i
Lab Sample ID: 10380193017

Compound: Benzene
CAS Number: 71-43-2

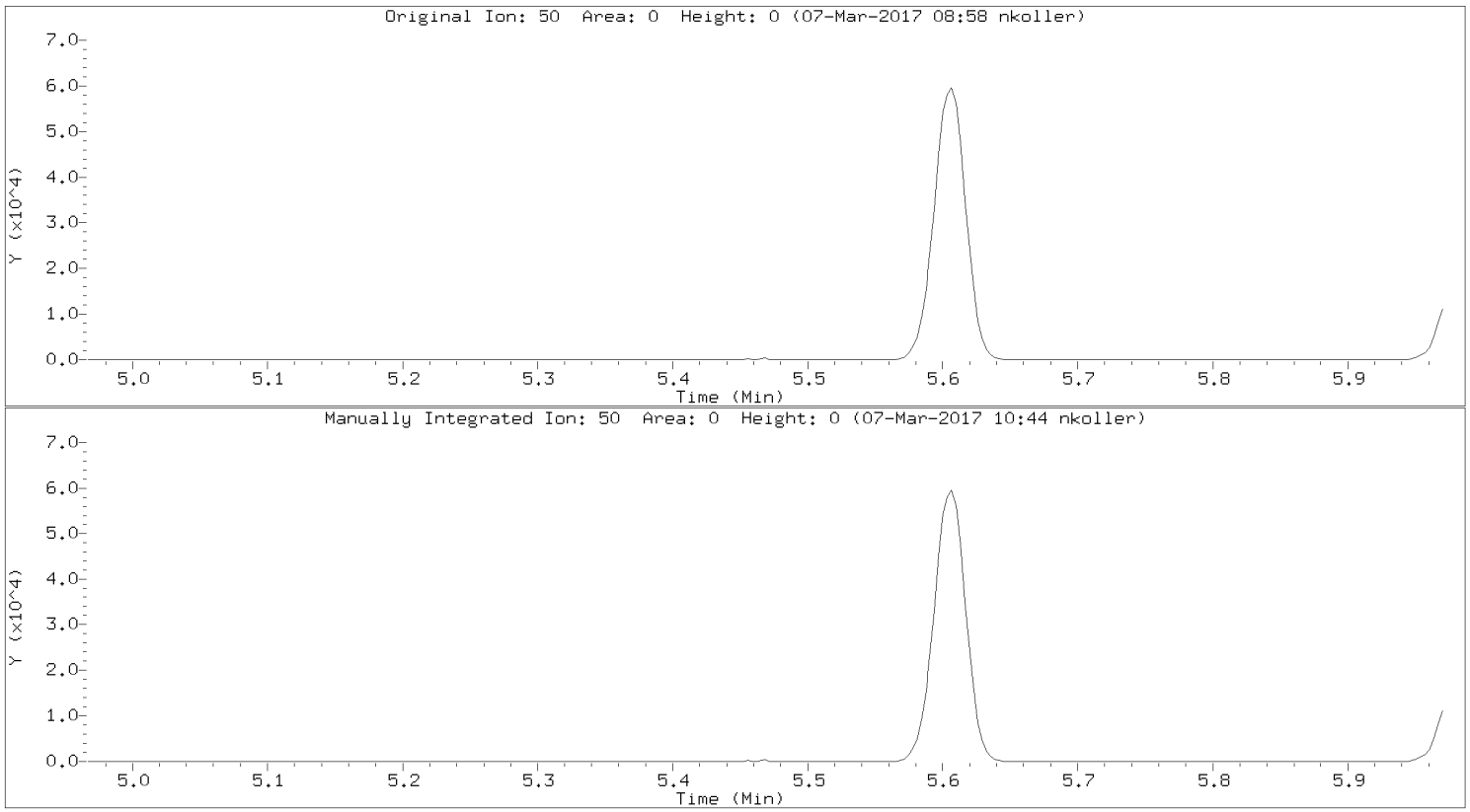








Data File: \\192.168.10.12\chem\10airB.i\030617.b/06537.D
Injection Date: 07-MAR-2017 02:54
Instrument: 10airB.i
Lab Sample ID: 10380193017



Data File: \\192.168.10.12\chem\10airB.i\030717.b\06617.D
Report Date: 08-Mar-2017 11:40

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030717.b\06617.D
Lab Smp Id: 10380193017
Inj Date : 07-MAR-2017 16:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27846
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Meth Date : 08-Mar-2017 09:09 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 17
Dil Factor: 560.00000
Integrator: HP RTE Compound Sublist: TCE.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	560.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$	32 Hexane-d14(S)	66	4.488	4.481	(0.801)	369264	8.37142	8.37
*	47 1,4-Difluorobenzene	114	5.603	5.610	(1.000)	1386441	10.0000	
	51 Trichloroethene	130	5.980	5.986	(1.067)	229031	9.83185	5510
$	59 Toluene-d8 (S)	98	7.073	7.076	(1.262)	1171180	9.43813	9.44
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	872348	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	441398	9.18533	9.19

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06617.D
Report Date: 08-Mar-2017 11:40

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06617.D
Lab Smp Id: 10380193017
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Misc Info: 27846

Calibration Date: 07-MAR-2017
Calibration Time: 08:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

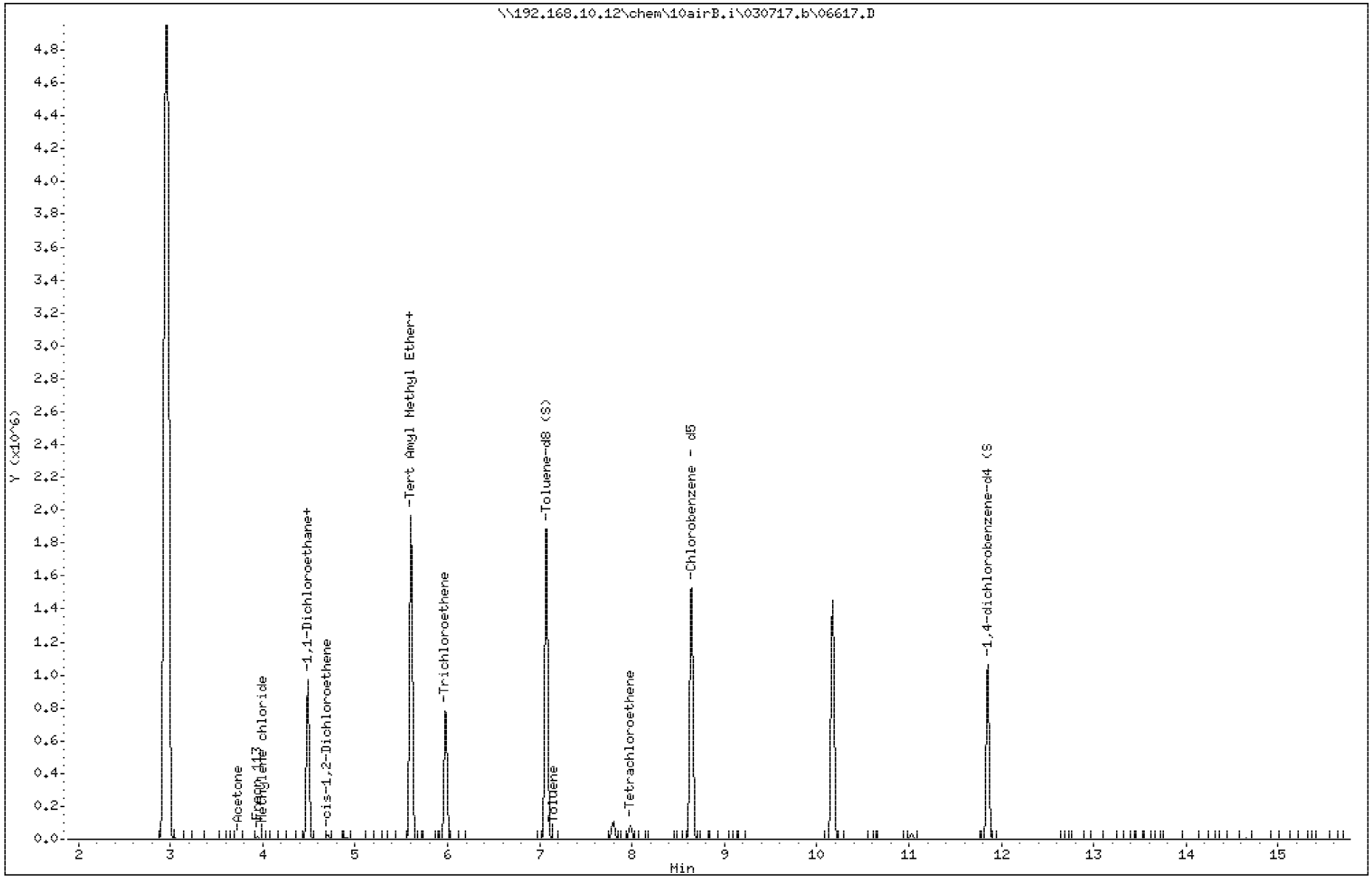
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1386441	-1.96
67 Chlorobenzene - d	951026	570616	1331436	872348	-8.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06617.D
Date : 07-MAR-2017 16:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030717.b\06617.D

Date : 07-MAR-2017 16:10

Client ID:

Instrument: 10airB.i

Sample Info:

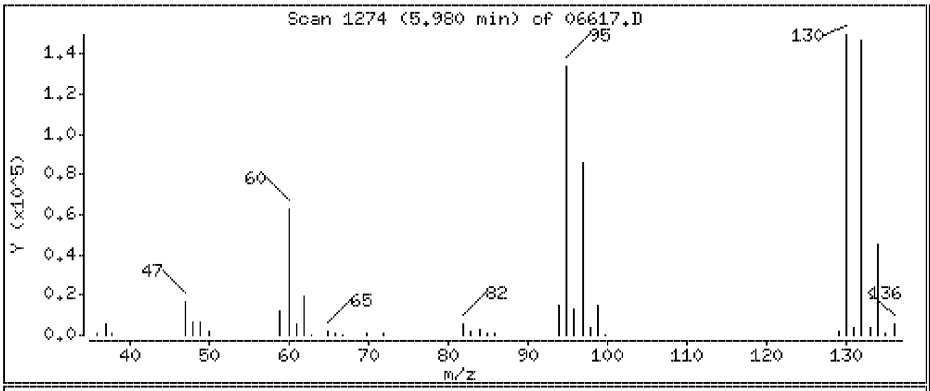
Operator: NCK

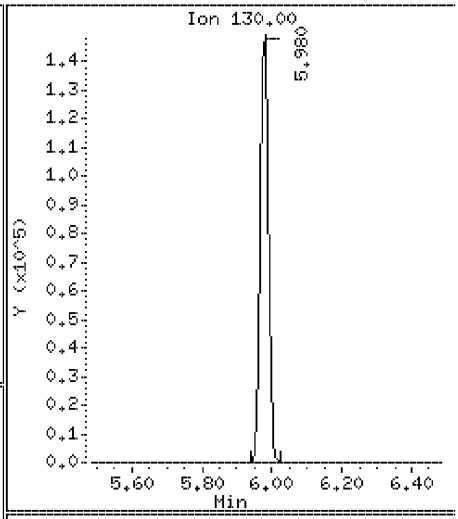
Column phase: J&W DB-5

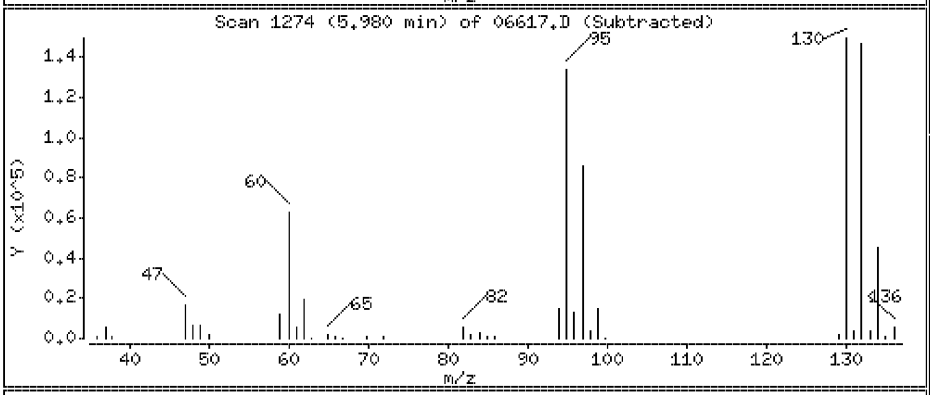
Column diameter: 0.32

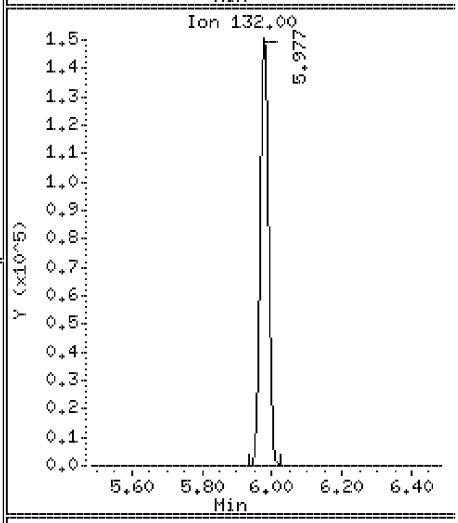
51 Trichloroethene

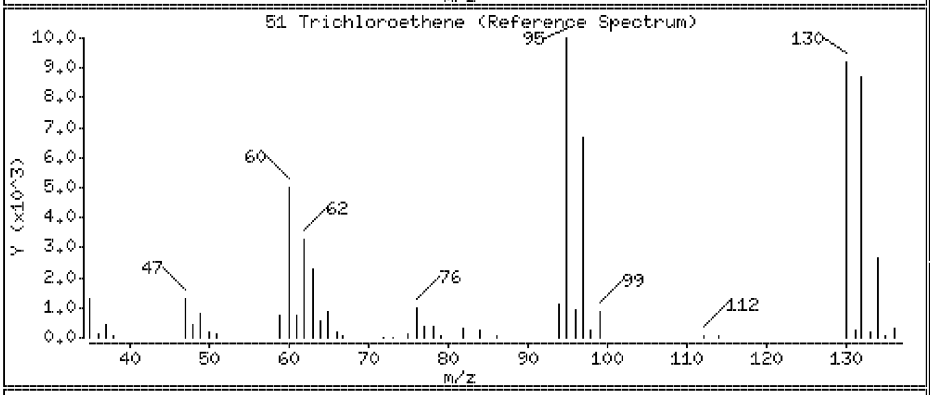
Concentration: 5510 ppbv

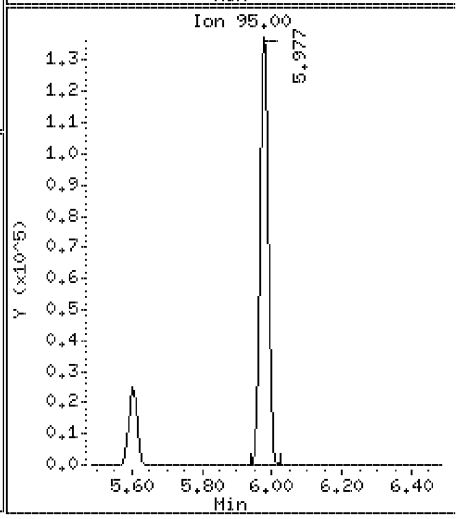


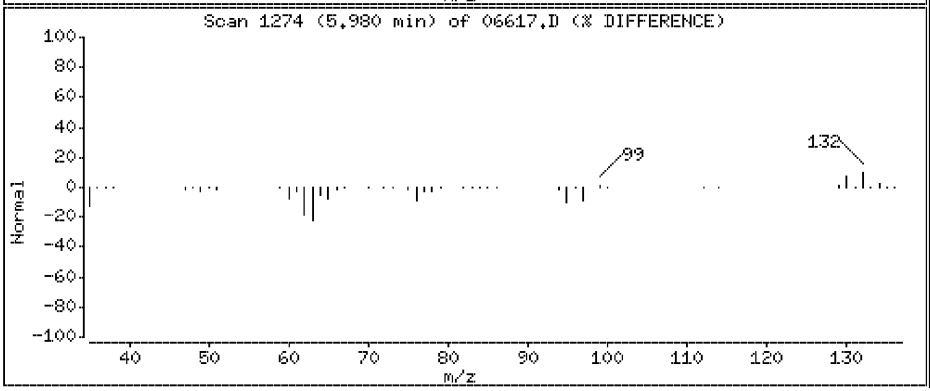












Data File: \\192.168.10.12\chem\10airB.i\030717.b/06617.D
Injection Date: 07-MAR-2017 16:10
Instrument: 10airB.i
Lab Sample ID: 10380193017
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_60_20170223 **Lab ID: 10380193017** Collected: 02/23/17 12:48 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<4.2**	ug/m3	43.8	4.2	17.5		03/07/17 02:54	67-63-0	
Styrene	**<3.4**	ug/m3	15.2	3.4	17.5		03/07/17 02:54	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.8**	ug/m3	12.2	5.8	17.5		03/07/17 02:54	79-34-5	
Tetrachloroethene	**1730**	ug/m3	12.1	4.9	17.5		03/07/17 02:54	127-18-4	
Toluene	**19.7**	ug/m3	13.5	2.7	17.5		03/07/17 02:54	108-88-3	
1,2,4-Trichlorobenzene	**<15.9**	ug/m3	66.0	15.9	17.5		03/07/17 02:54	120-82-1	
1,1,1-Trichloroethane	**<4.3**	ug/m3	19.4	4.3	17.5		03/07/17 02:54	71-55-6	
1,1,2-Trichloroethane	**<4.3**	ug/m3	9.6	4.3	17.5		03/07/17 02:54	79-00-5	
Trichloroethene	**11300**	ug/m3	9.6	4.8	17.5		03/07/17 02:54	79-01-6	
Trichloroethene	**30100**	ug/m3	308	155	560		03/07/17 16:10	79-01-6	A3
Trichlorofluoromethane	**33.2**	ug/m3	20.0	2.3	17.5		03/07/17 02:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**308**	ug/m3	28.0	5.3	17.5		03/07/17 02:54	76-13-1	
1,2,4-Trimethylbenzene	**<2.2**	ug/m3	17.5	2.2	17.5		03/07/17 02:54	95-63-6	
1,3,5-Trimethylbenzene	**<3.2**	ug/m3	17.5	3.2	17.5		03/07/17 02:54	108-67-8	
Vinyl chloride	**<3.4**	ug/m3	4.6	3.4	17.5		03/07/17 02:54	75-01-4	
m&p-Xylene	**<13.8**	ug/m3	31.0	13.8	17.5		03/07/17 02:54	179601-23-1	
o-Xylene	**<6.1**	ug/m3	15.4	6.1	17.5		03/07/17 02:54	95-47-6	

Sample: VP-105_72_20170223 **Lab ID: 10380193018** Collected: 02/23/17 12:48 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<14.6**	ug/m3	42.2	14.6	17.5		03/07/17 03:21	67-64-1	
Allyl chloride	**<4.0**	ug/m3	27.8	4.0	17.5		03/07/17 03:21	107-05-1	
Benzene	**3.0J**	ug/m3	5.7	2.1	17.5		03/07/17 03:21	71-43-2	
Bromodichloromethane	**<3.4**	ug/m3	23.8	3.4	17.5		03/07/17 03:21	75-27-4	
Bromoform	**<15.8**	ug/m3	36.8	15.8	17.5		03/07/17 03:21	75-25-2	
Bromomethane	**<5.4**	ug/m3	13.8	5.4	17.5		03/07/17 03:21	74-83-9	
1,3-Butadiene	**<3.1**	ug/m3	7.9	3.1	17.5		03/07/17 03:21	106-99-0	
2-Butanone (MEK)	**<4.0**	ug/m3	52.5	4.0	17.5		03/07/17 03:21	78-93-3	
Carbon disulfide	**<1.8**	ug/m3	11.0	1.8	17.5		03/07/17 03:21	75-15-0	
Carbon tetrachloride	**<3.4**	ug/m3	11.2	3.4	17.5		03/07/17 03:21	56-23-5	
Chlorobenzene	**<2.3**	ug/m3	16.4	2.3	17.5		03/07/17 03:21	108-90-7	
Chlorodifluoromethane	**76.1**	ug/m3	12.6	4.8	17.5		03/07/17 03:21	75-45-6	
Chloroethane	**<3.4**	ug/m3	9.4	3.4	17.5		03/07/17 03:21	75-00-3	
Chloroform	**12.1**	ug/m3	8.7	3.3	17.5		03/07/17 03:21	67-66-3	
Chloromethane	**<1.9**	ug/m3	7.4	1.9	17.5		03/07/17 03:21	74-87-3	
Chloropentafluoroethane	**<56.2**	ug/m3	56.2	56.2	17.5		03/07/17 03:21	76-15-3	CH
Cyclohexane	**<5.5**	ug/m3	12.2	5.5	17.5		03/07/17 03:21	110-82-7	
1,2-Dibromo-3-chloropropane	**<85.9**	ug/m3	85.9	85.9	17.5		03/07/17 03:21	96-12-8	
Dibromochloromethane	**<15.0**	ug/m3	30.3	15.0	17.5		03/07/17 03:21	124-48-1	
1,2-Dibromoethane (EDB)	**<13.5**	ug/m3	27.3	13.5	17.5		03/07/17 03:21	106-93-4	
1,2-Dichlorobenzene	**<9.0**	ug/m3	21.4	9.0	17.5		03/07/17 03:21	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_72_20170223 **Lab ID: 10380193018** Collected: 02/23/17 12:48 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<9.3**	ug/m3	21.4	9.3	17.5		03/07/17 03:21	541-73-1	
1,4-Dichlorobenzene	**21.9**	ug/m3	21.4	8.7	17.5		03/07/17 03:21	106-46-7	
Dichlorodifluoromethane	**<8.4**	ug/m3	17.7	8.4	17.5		03/07/17 03:21	75-71-8	
1,1-Dichloroethane	**<2.7**	ug/m3	14.4	2.7	17.5		03/07/17 03:21	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/m3	7.2	3.6	17.5		03/07/17 03:21	107-06-2	
1,1-Dichloroethene	**<4.2**	ug/m3	14.2	4.2	17.5		03/07/17 03:21	75-35-4	
cis-1,2-Dichloroethene	**266**	ug/m3	14.2	4.3	17.5		03/07/17 03:21	156-59-2	
trans-1,2-Dichloroethene	**<6.7**	ug/m3	14.2	6.7	17.5		03/07/17 03:21	156-60-5	
1,2-Dichloropropane	**<4.7**	ug/m3	16.4	4.7	17.5		03/07/17 03:21	78-87-5	
cis-1,3-Dichloropropene	**<6.5**	ug/m3	16.1	6.5	17.5		03/07/17 03:21	10061-01-5	
trans-1,3-Dichloropropene	**<4.6**	ug/m3	16.1	4.6	17.5		03/07/17 03:21	10061-02-6	
Dichlorotetrafluoroethane	**<5.4**	ug/m3	24.8	5.4	17.5		03/07/17 03:21	76-14-2	
Freon 123	**<55.6**	ug/m3	55.6	55.6	17.5		03/07/17 03:21	306-83-2	
1,4-Dioxane (p-Dioxane)	**<6.2**	ug/m3	64.0	6.2	17.5		03/07/17 03:21	123-91-1	
Ethylbenzene	**<7.4**	ug/m3	15.4	7.4	17.5		03/07/17 03:21	100-41-4	
4-Ethyltoluene	**<3.3**	ug/m3	17.5	3.3	17.5		03/07/17 03:21	622-96-8	
Hexachloro-1,3-butadiene	**<11.4**	ug/m3	37.9	11.4	17.5		03/07/17 03:21	87-68-3	
n-Hexane	**<6.2**	ug/m3	12.6	6.2	17.5		03/07/17 03:21	110-54-3	
2-Hexanone	**<7.2**	ug/m3	72.9	7.2	17.5		03/07/17 03:21	591-78-6	
Isopropylbenzene (Cumene)	**<2.4**	ug/m3	43.8	2.4	17.5		03/07/17 03:21	98-82-8	
Methyl acetate	**<27.0**	ug/m3	27.0	27.0	17.5		03/07/17 03:21	79-20-9	
Methylcyclohexane	**<4.2**	ug/m3	14.3	4.2	17.5		03/07/17 03:21	108-87-2	
Methylene Chloride	**<9.5**	ug/m3	61.8	9.5	17.5		03/07/17 03:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.8**	ug/m3	72.9	3.8	17.5		03/07/17 03:21	108-10-1	
Methyl-tert-butyl ether	**<5.3**	ug/m3	64.1	5.3	17.5		03/07/17 03:21	1634-04-4	
2-Propanol	**<4.2**	ug/m3	43.8	4.2	17.5		03/07/17 03:21	67-63-0	
Styrene	**<3.4**	ug/m3	15.2	3.4	17.5		03/07/17 03:21	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.8**	ug/m3	12.2	5.8	17.5		03/07/17 03:21	79-34-5	
Tetrachloroethene	**1400**	ug/m3	12.1	4.9	17.5		03/07/17 03:21	127-18-4	
Toluene	**16.7**	ug/m3	13.5	2.7	17.5		03/07/17 03:21	108-88-3	
1,2,4-Trichlorobenzene	**<15.9**	ug/m3	66.0	15.9	17.5		03/07/17 03:21	120-82-1	
1,1,1-Trichloroethane	**<4.3**	ug/m3	19.4	4.3	17.5		03/07/17 03:21	71-55-6	
1,1,2-Trichloroethane	**<4.3**	ug/m3	9.6	4.3	17.5		03/07/17 03:21	79-00-5	
Trichloroethene	**7080**	ug/m3	9.6	4.8	17.5		03/07/17 03:21	79-01-6	
Trichloroethene	**12200**	ug/m3	154	77.3	280		03/07/17 15:15	79-01-6	A3
Trichlorofluoromethane	**33.1**	ug/m3	20.0	2.3	17.5		03/07/17 03:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	**292**	ug/m3	28.0	5.3	17.5		03/07/17 03:21	76-13-1	
1,2,4-Trimethylbenzene	**<2.2**	ug/m3	17.5	2.2	17.5		03/07/17 03:21	95-63-6	
1,3,5-Trimethylbenzene	**<3.2**	ug/m3	17.5	3.2	17.5		03/07/17 03:21	108-67-8	
Vinyl chloride	**<3.4**	ug/m3	4.6	3.4	17.5		03/07/17 03:21	75-01-4	
m&p-Xylene	**<13.8**	ug/m3	31.0	13.8	17.5		03/07/17 03:21	179601-23-1	
o-Xylene	**<6.1**	ug/m3	15.4	6.1	17.5		03/07/17 03:21	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D
Report Date: 07-Mar-2017 10:47

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06538.D
Lab Smp Id: 10380193018
Inj Date : 07-MAR-2017 03:21
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27846
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 09:17 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 38
Dil Factor: 17.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	17.500	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	3.025	2.950	(0.540)	3307	0.44106	7.72(QH)	
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	2.996	3.031	(0.535)	4841	1.20904	21.2(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.639	3.677	(0.649)	12571	0.33151	5.80	
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.922	3.954	(0.700)	61430	2.14522	37.5	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D
Report Date: 07-Mar-2017 10:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.475	4.491	(0.799)	379389	8.62127	8.62	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.690	4.725	(0.837)	52118	3.76973	66.0(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.803	4.841	(0.857)	3994	0.13938	2.44	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.459	5.468	(0.974)	2325	0.05212	0.912	
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	1383175	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.980	5.989	(1.067)	1721041	74.0554	1300(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.073	7.079	(1.262)	1180060	9.53214	9.53	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.150	7.153	(1.276)	13886	0.24857	4.35	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.989	(0.924)	367329	11.5933	203	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	912471	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D
Report Date: 07-Mar-2017 10:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	459485	9.14126	9.14	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.376)	7265	0.20460	3.58(Q)	
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D
Report Date: 07-Mar-2017 10:47

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06538.D
Lab Smp Id: 10380193018
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27846

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

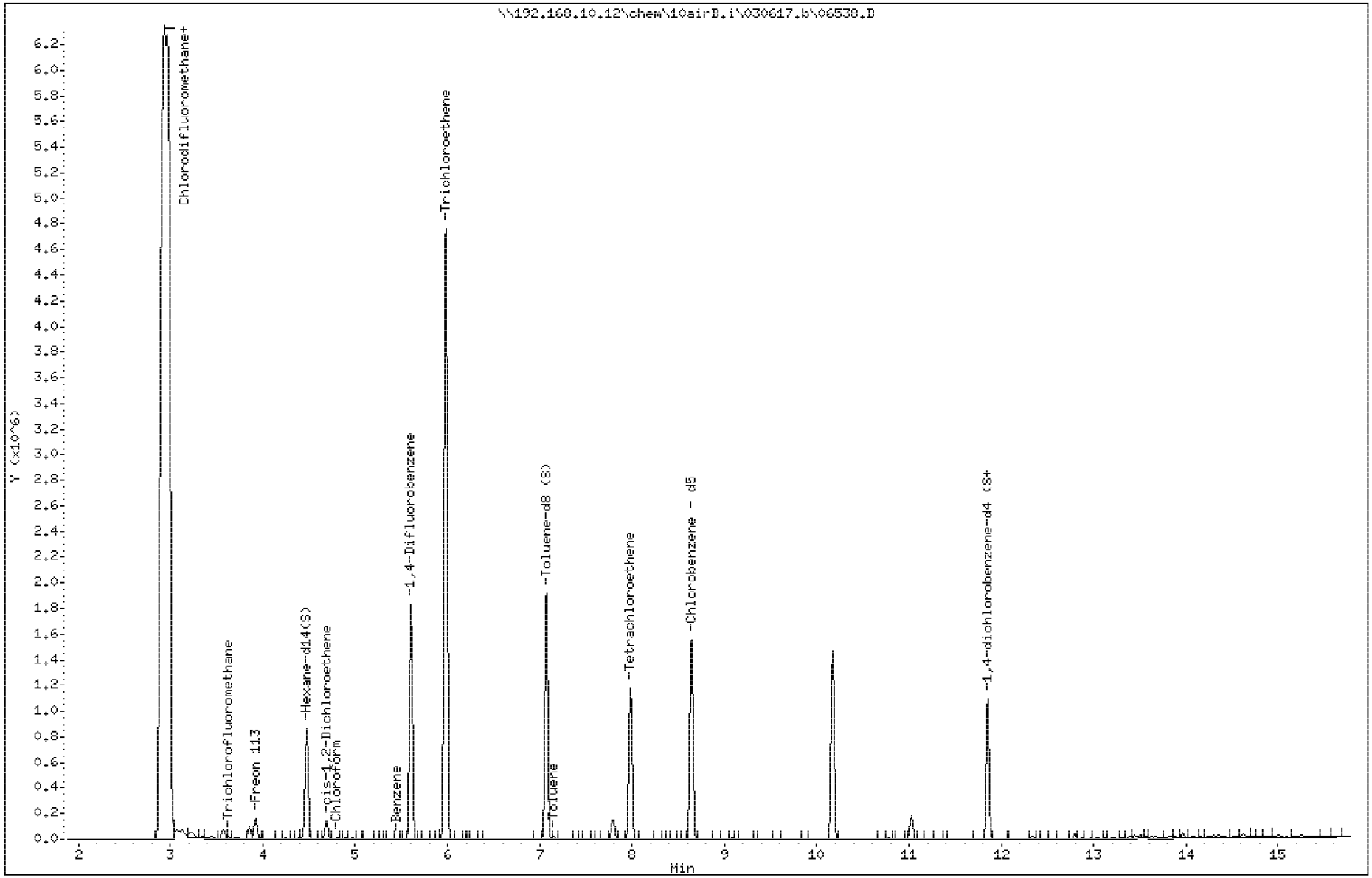
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1383175	-2.19
67 Chlorobenzene - d	951026	570616	1331436	912471	-4.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.03

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D
Date : 07-MAR-2017 03:21
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

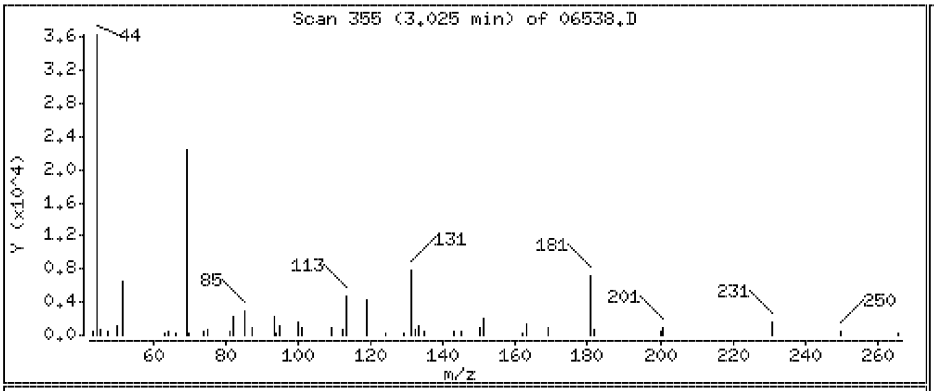
Operator: NCK

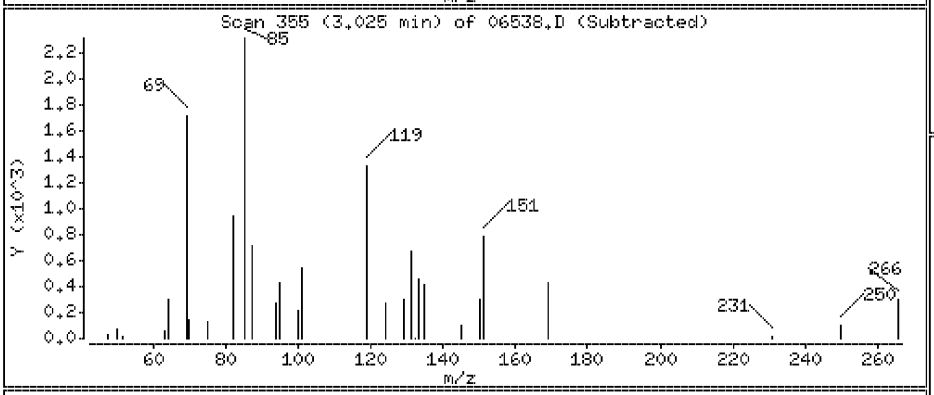
Column phase: J&W DB-5

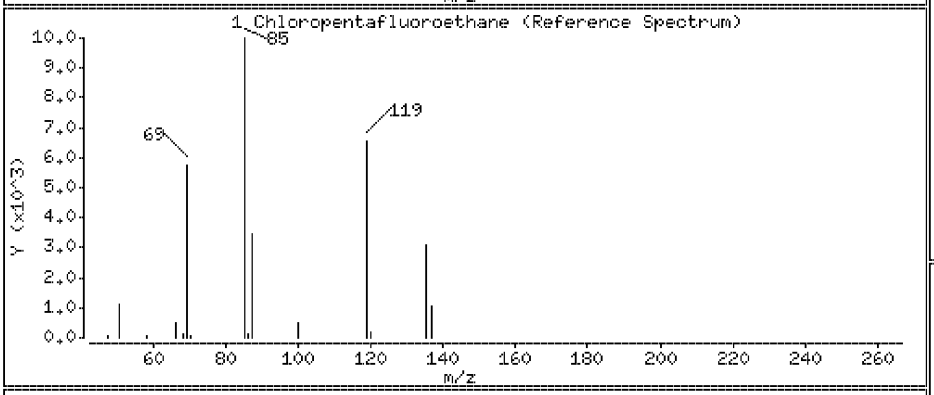
Column diameter: 0.32

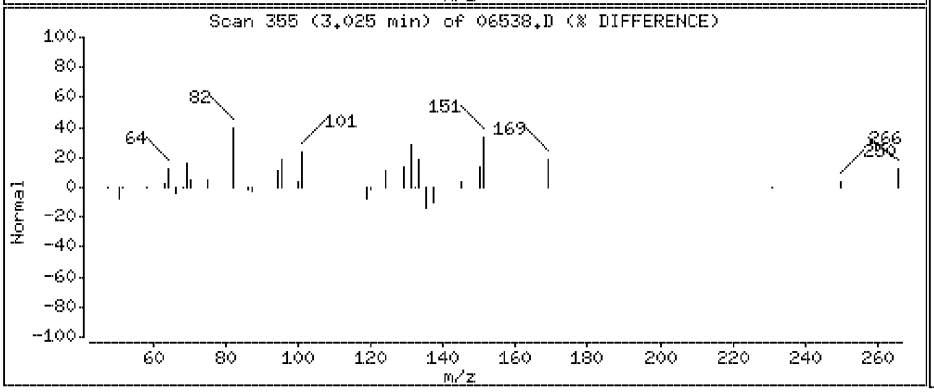
1 Chloropentafluoroethane

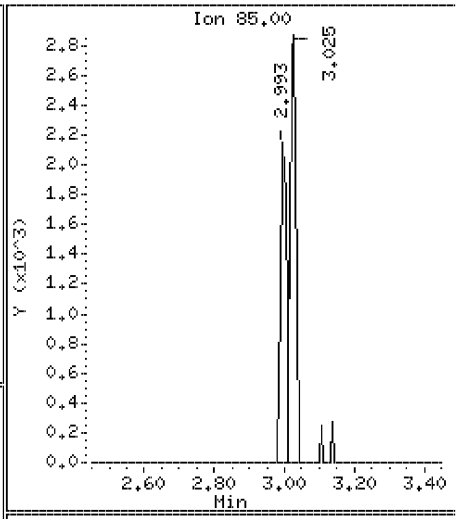
Concentration: 7.72 ppbv

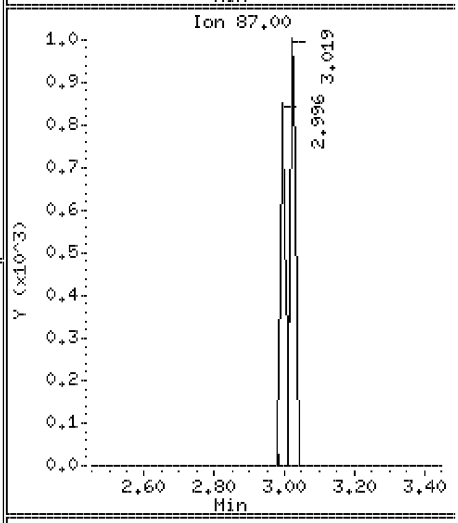


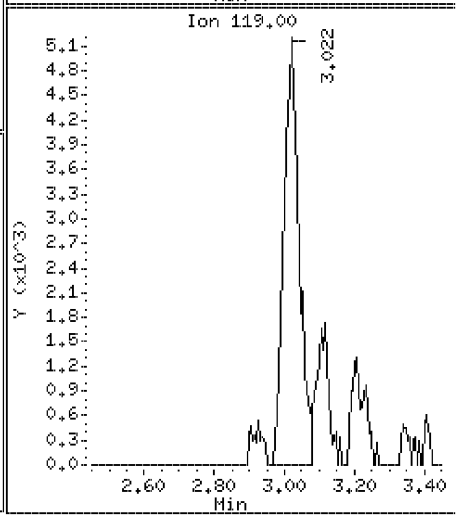












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

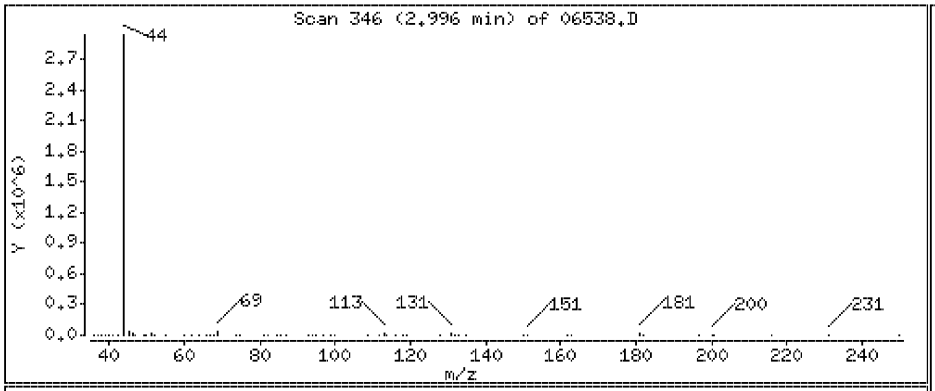
Operator: NCK

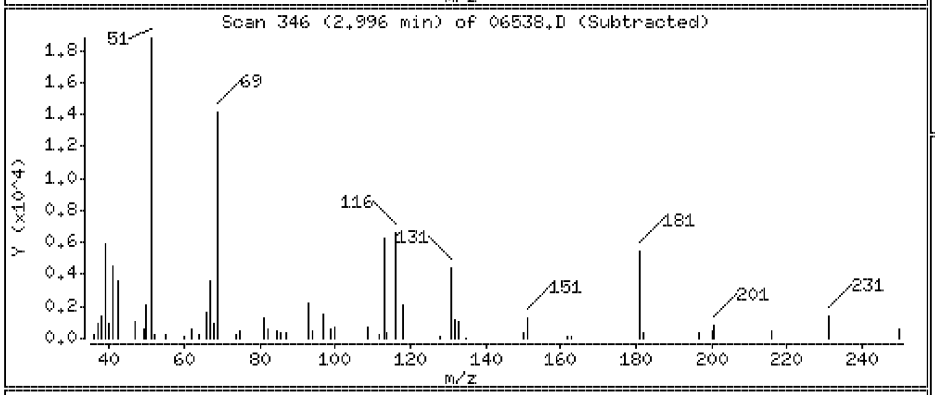
Column phase: J&W DB-5

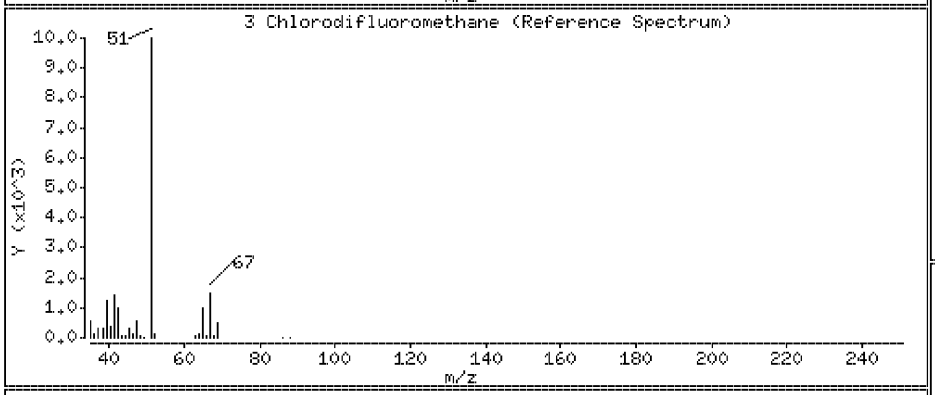
Column diameter: 0.32

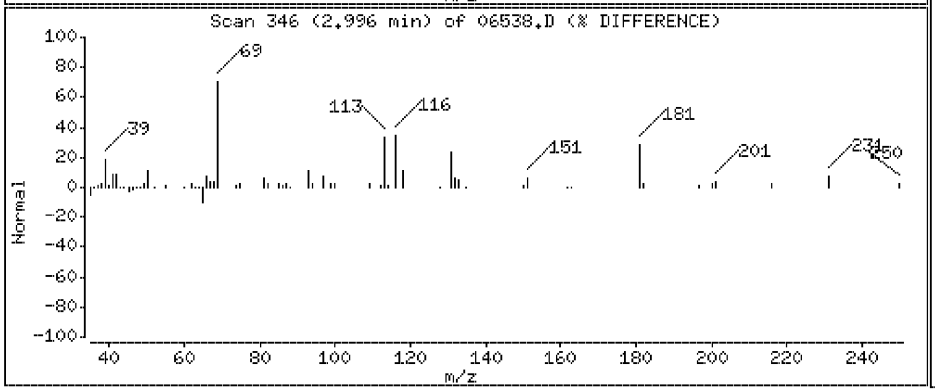
3 Chlorodifluoromethane

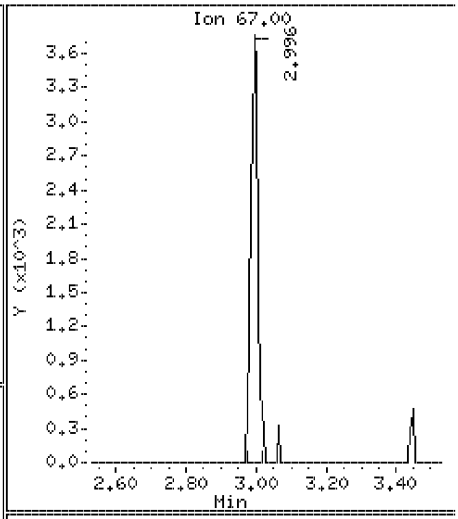
Concentration: 21.2 ppbv

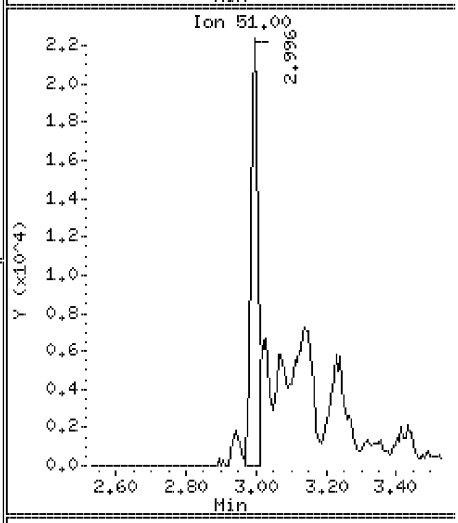


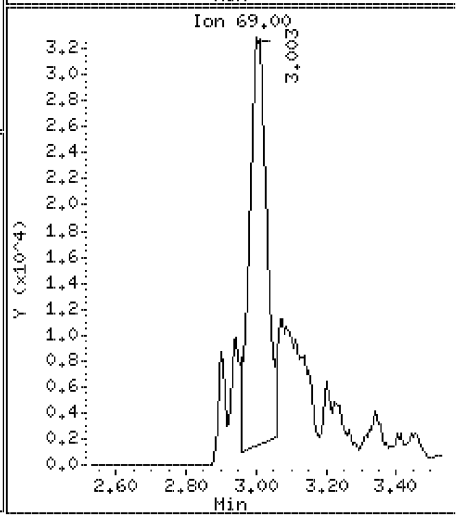












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

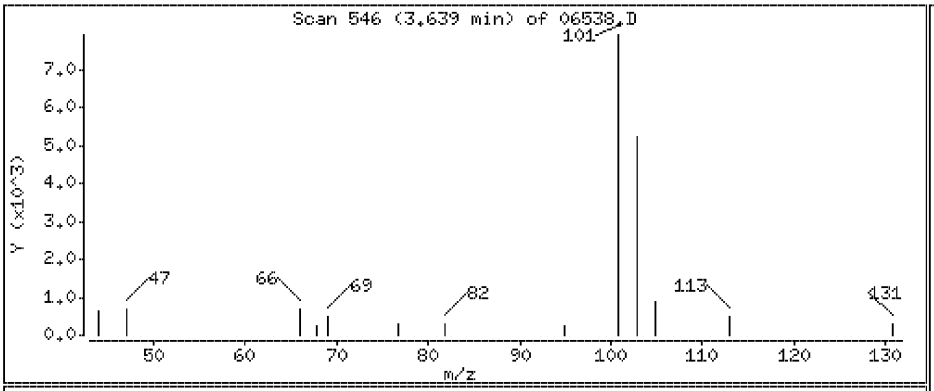
Operator: NCK

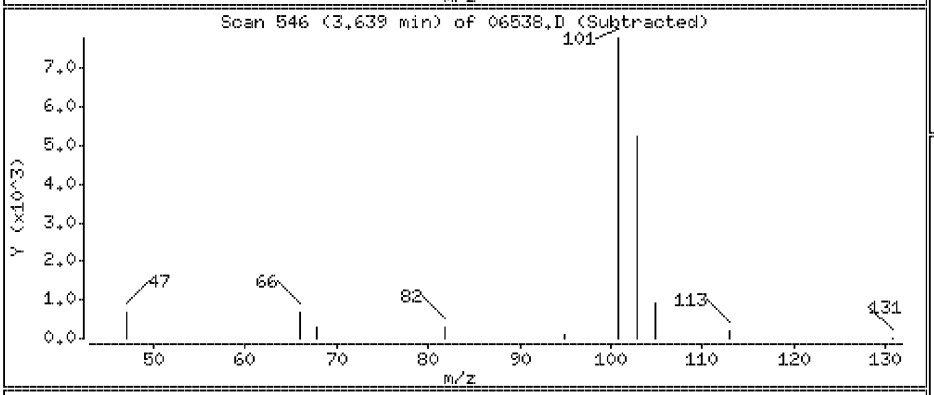
Column phase: J&W DB-5

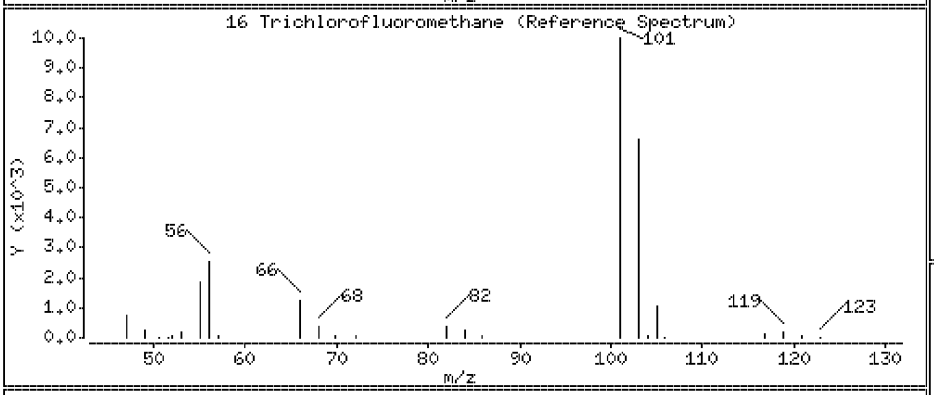
Column diameter: 0.32

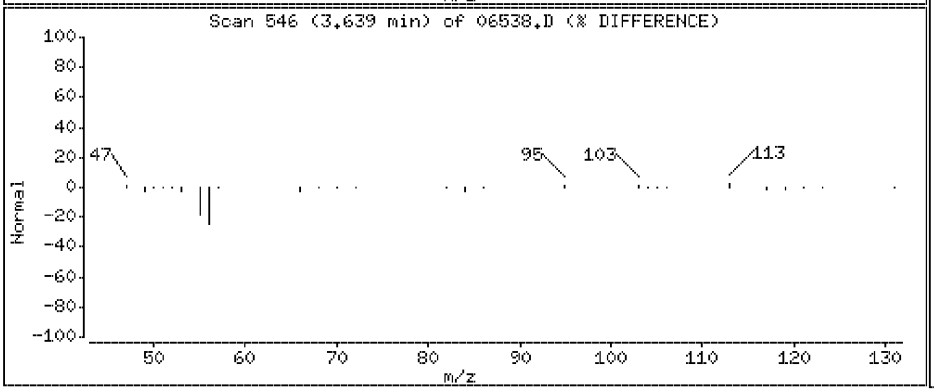
16 Trichlorofluoromethane

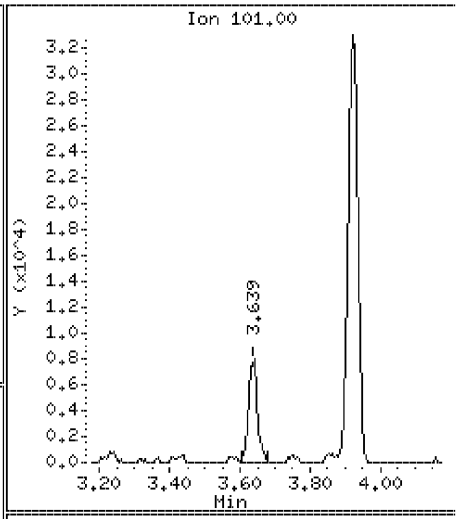
Concentration: 5.80 ppbv

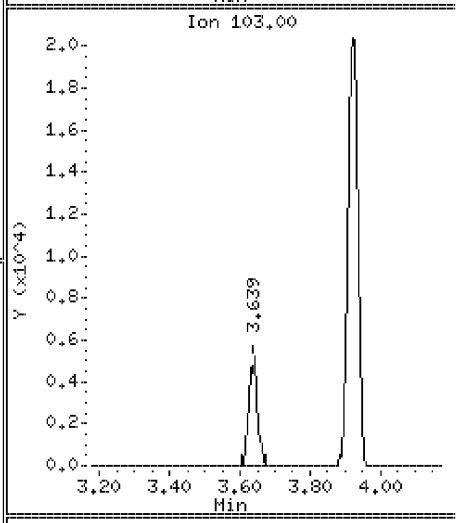


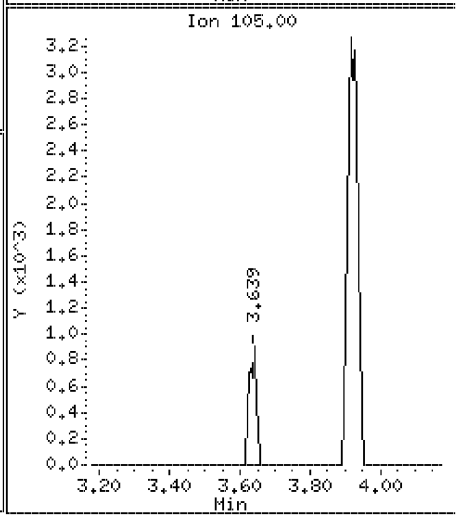












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

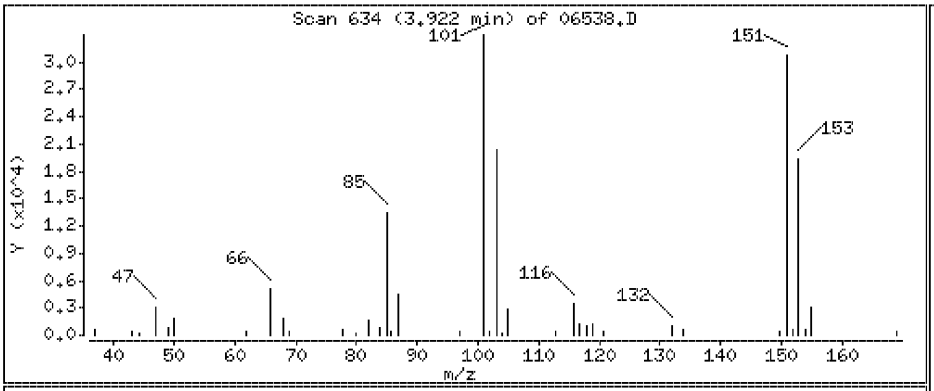
Operator: NCK

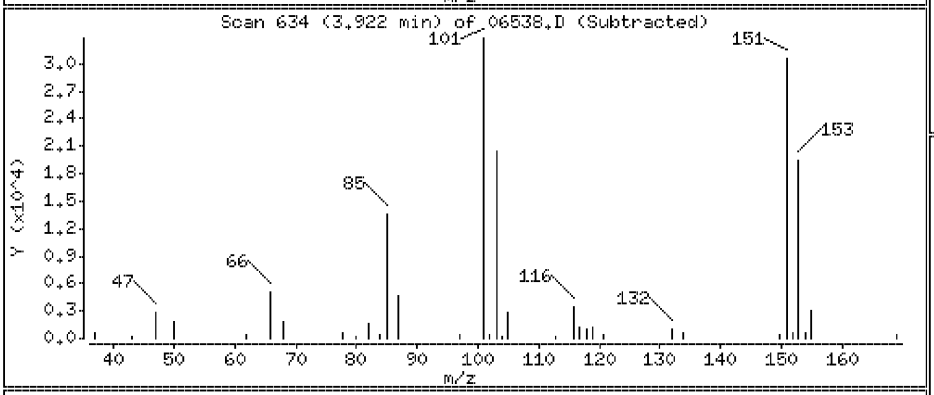
Column phase: J&W DB-5

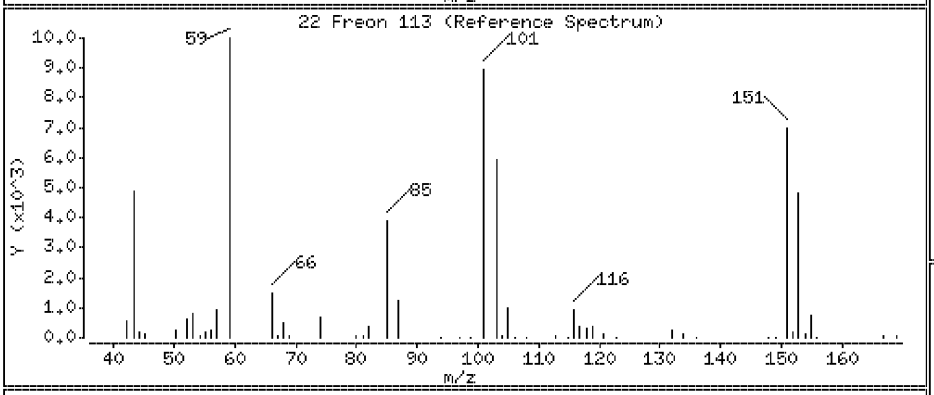
Column diameter: 0.32

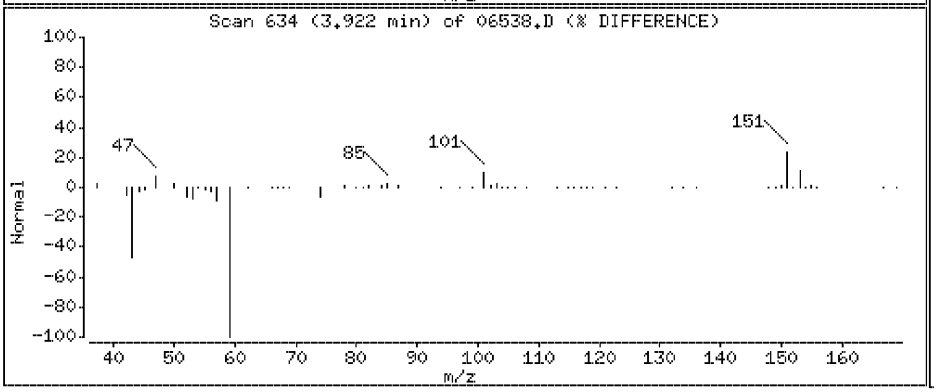
22 Freon 113

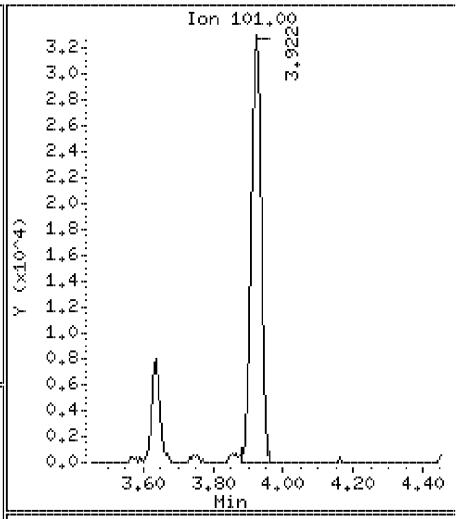
Concentration: 37.5 ppbv

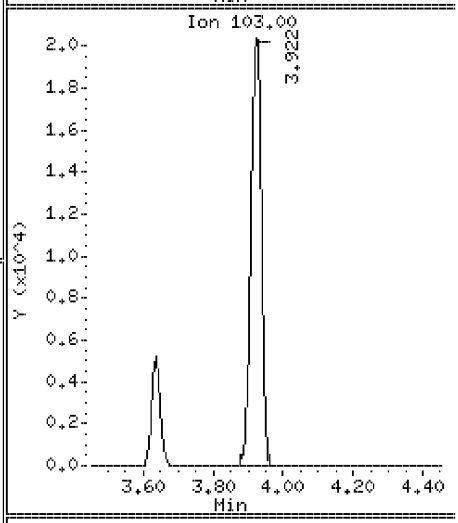


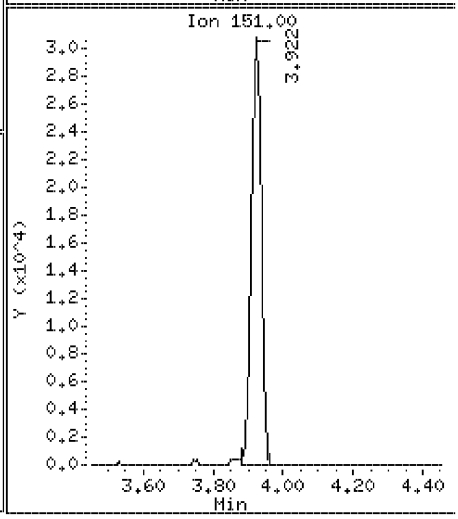












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

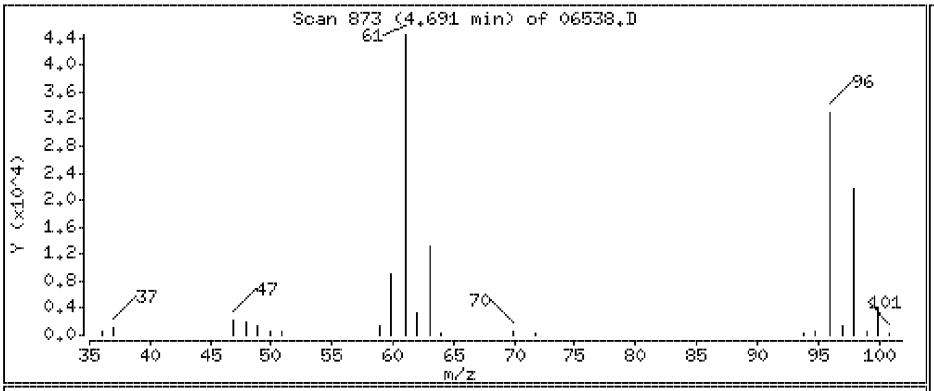
Operator: NCK

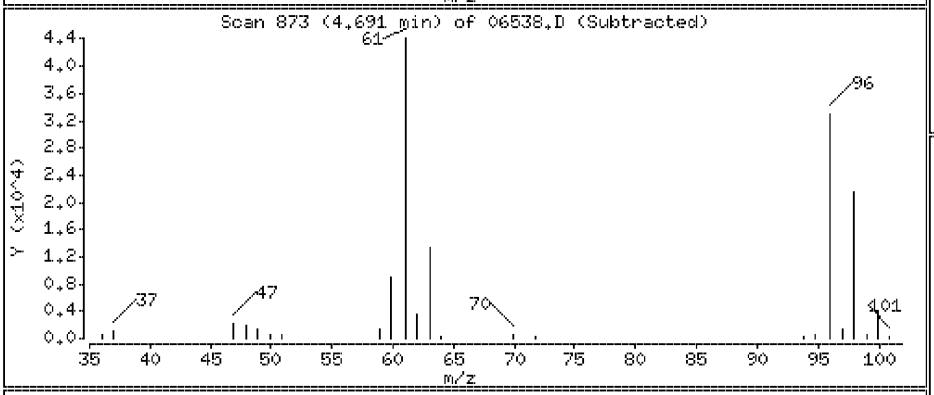
Column phase: J&W DB-5

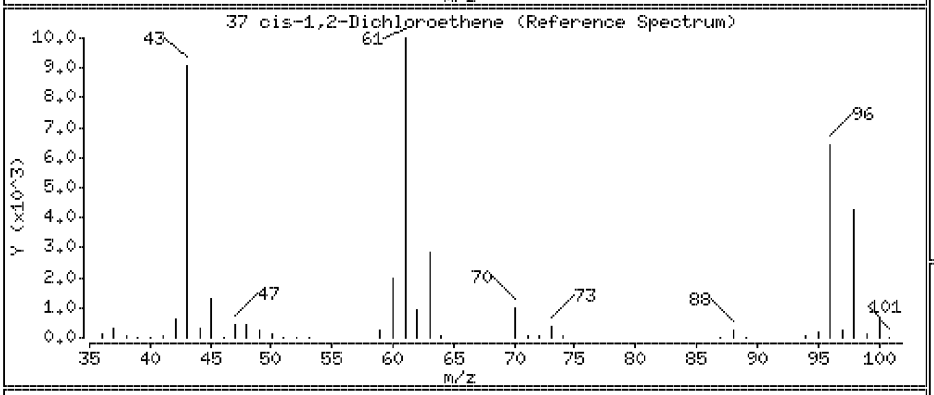
Column diameter: 0.32

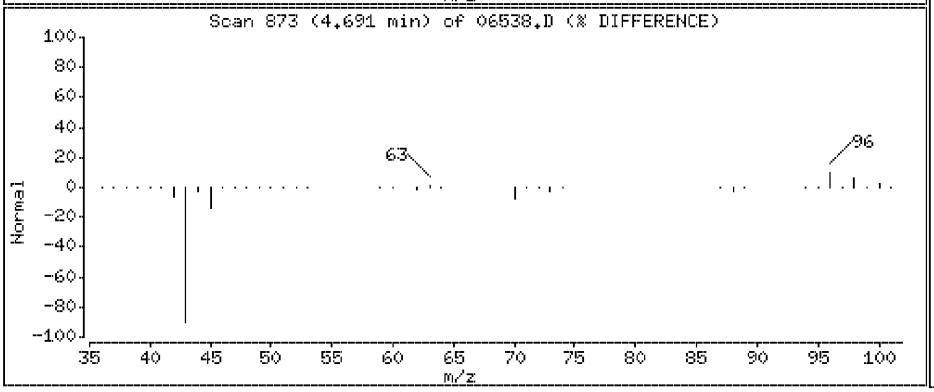
37 cis-1,2-Dichloroethene

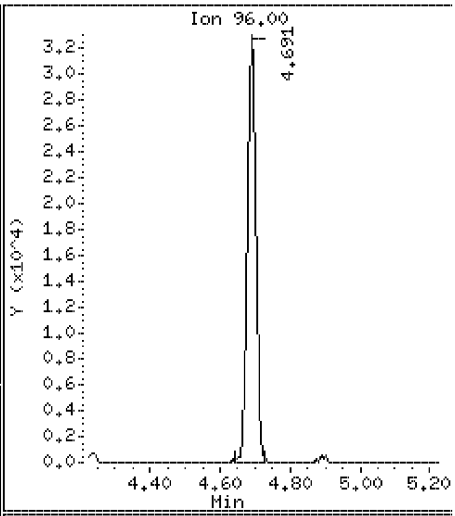
Concentration: 66.0 ppbv

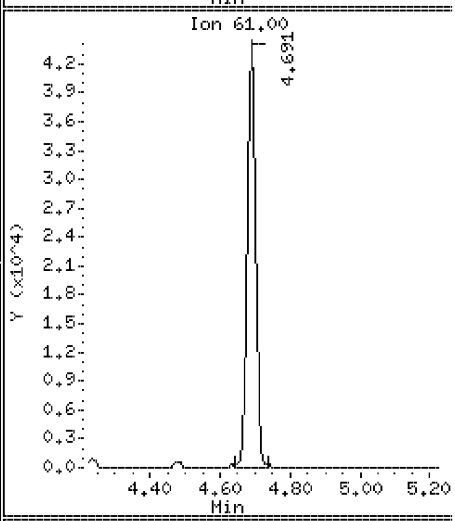


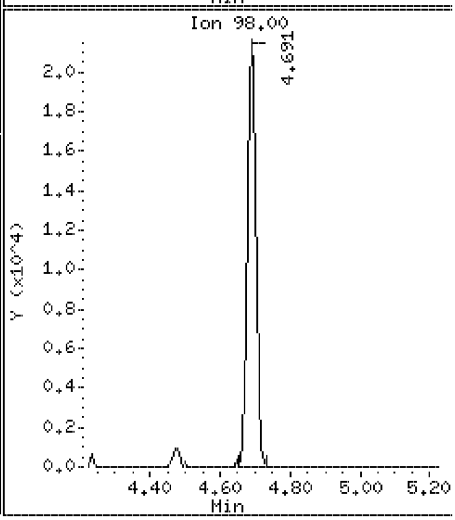












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

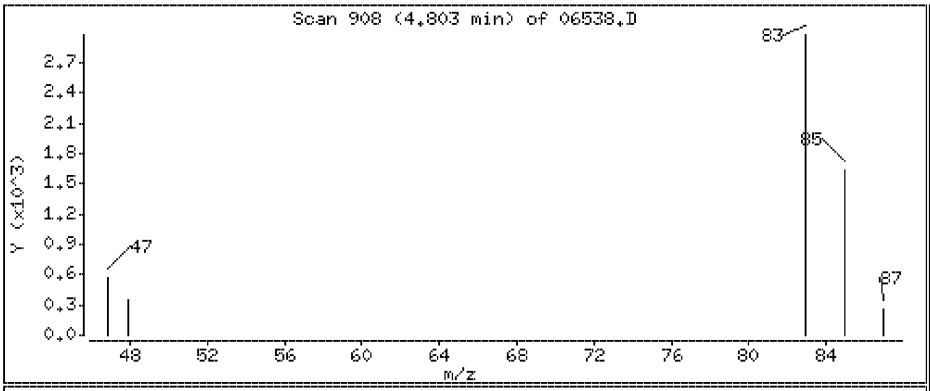
Operator: NCK

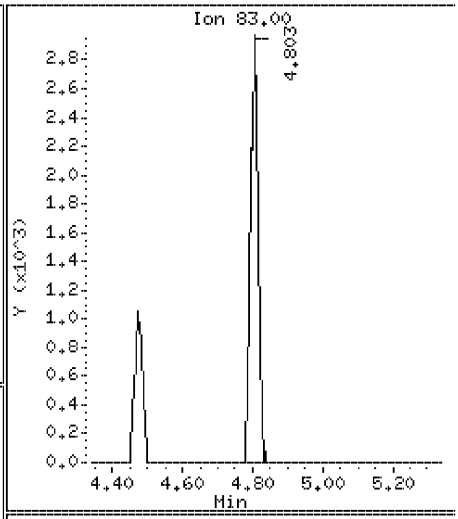
Column phase: J&W DB-5

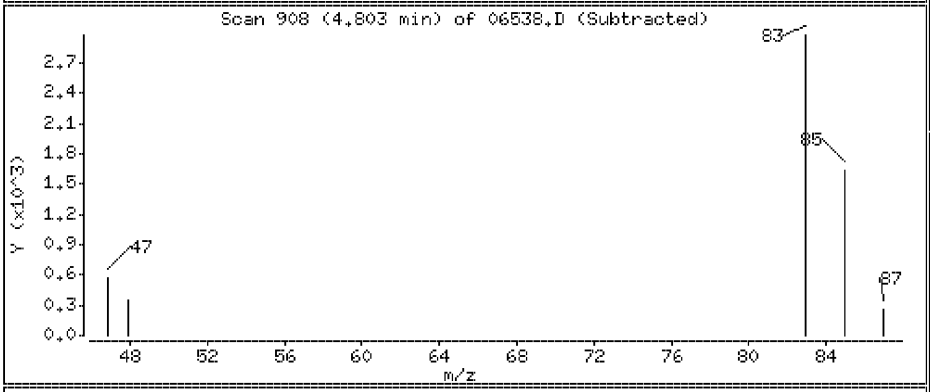
Column diameter: 0.32

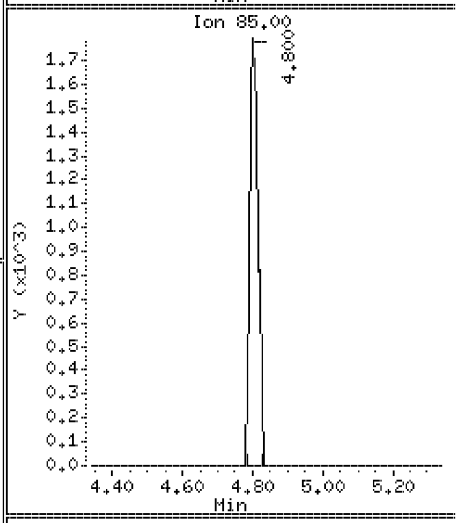
39 Chloroform

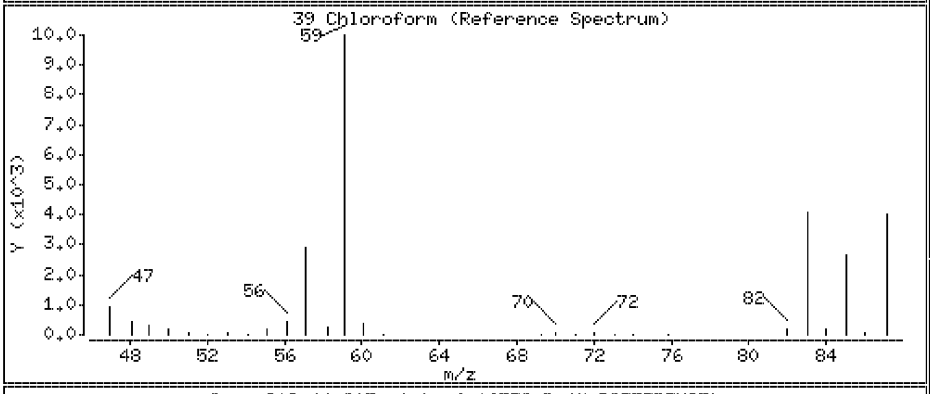
Concentration: 2.44 ppbv

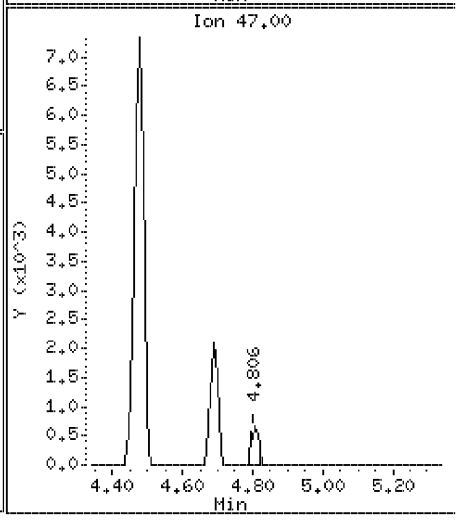


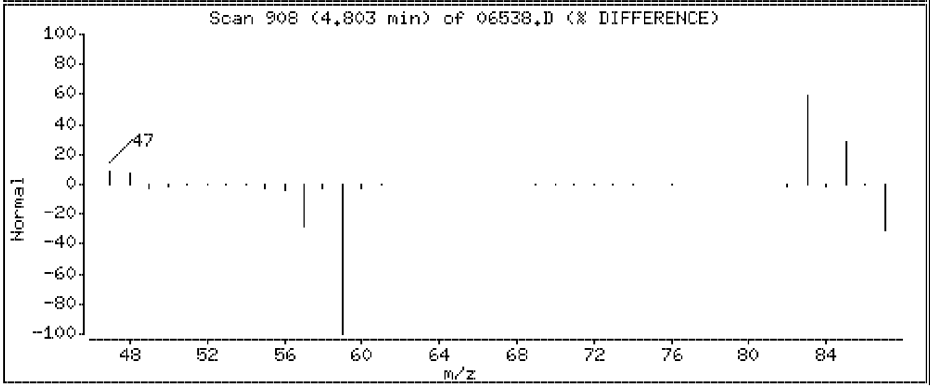












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

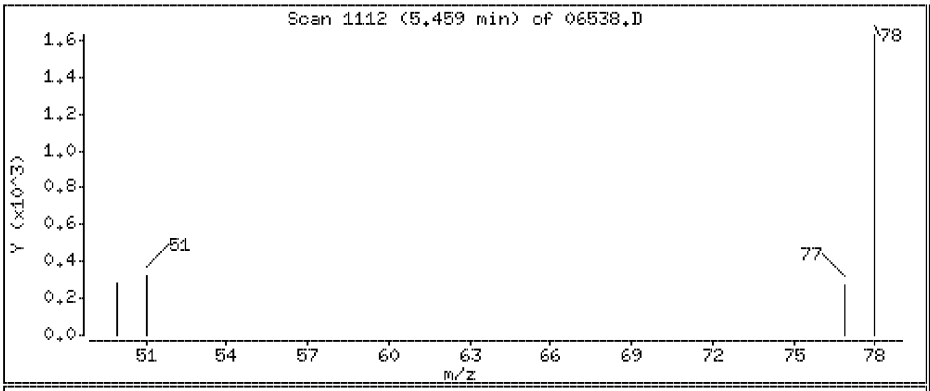
Operator: NCK

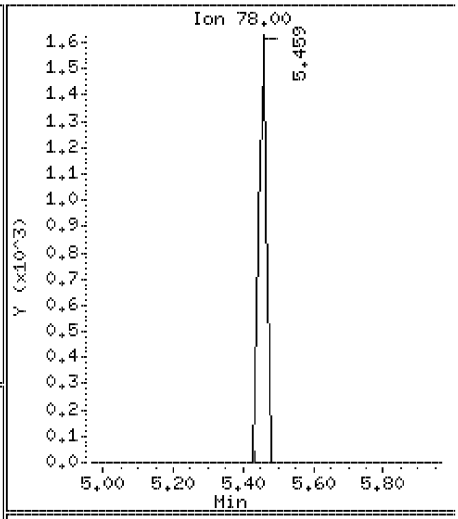
Column phase: J&W DB-5

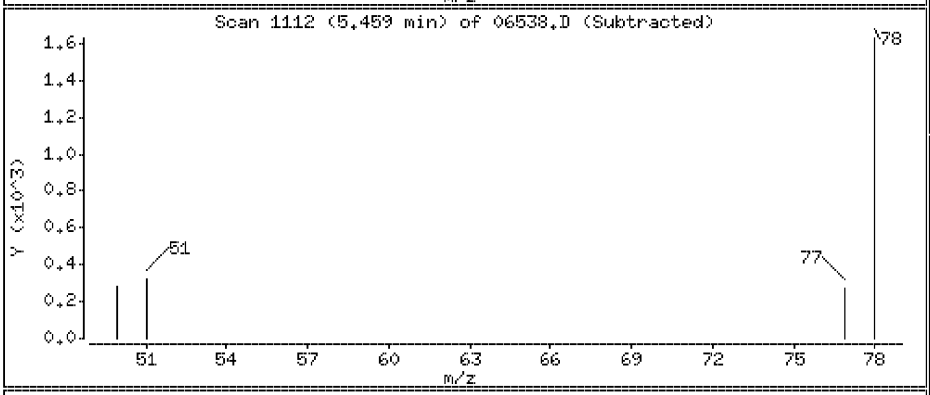
Column diameter: 0.32

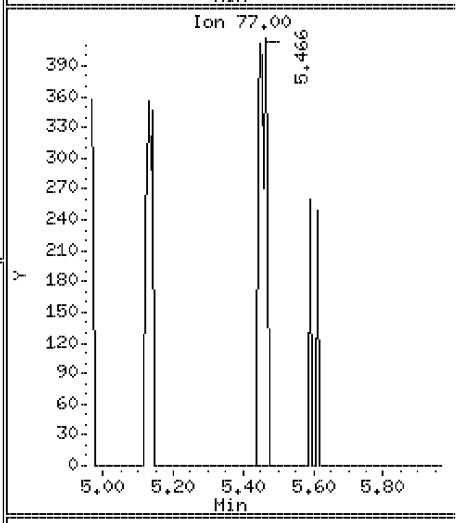
43 Benzene

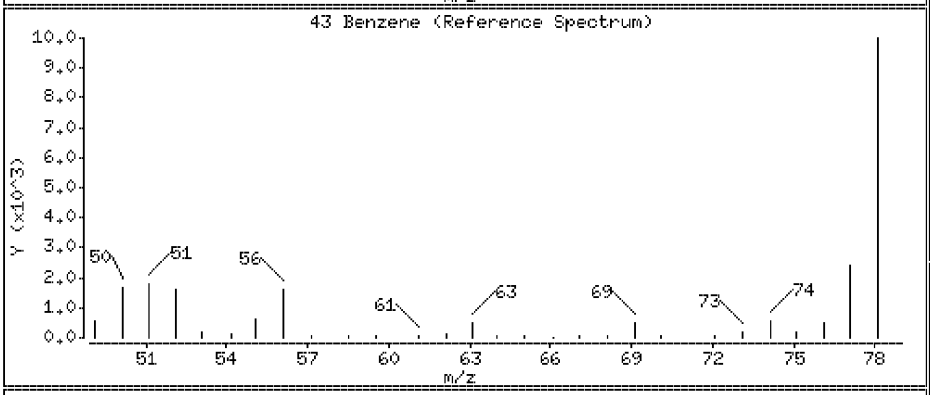
Concentration: 0.912 ppbv

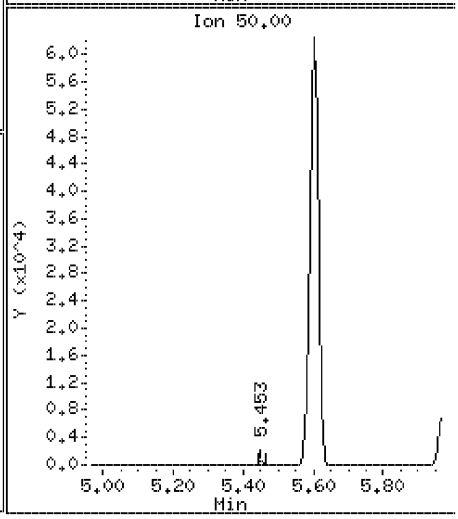


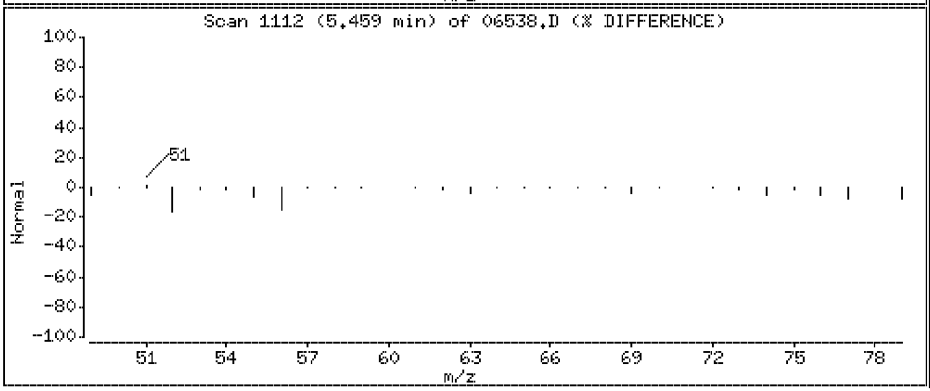












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

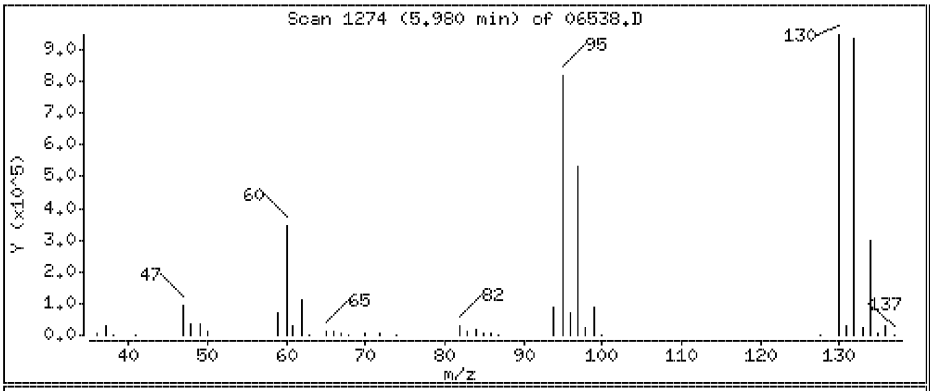
Operator: NCK

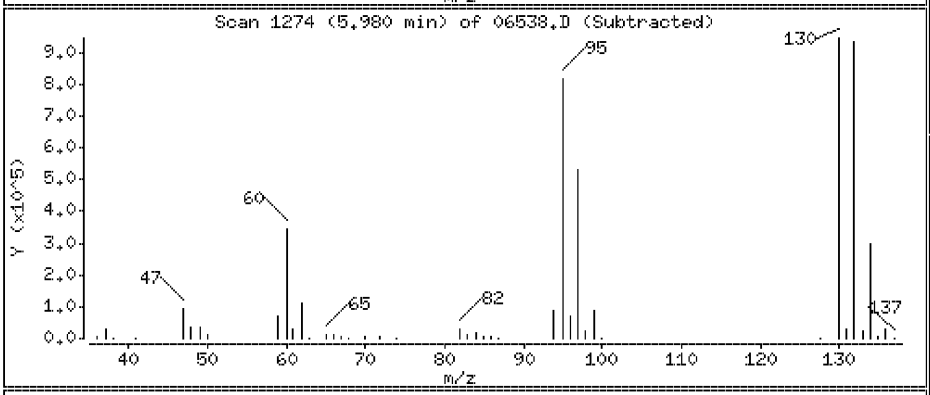
Column phase: J&W DB-5

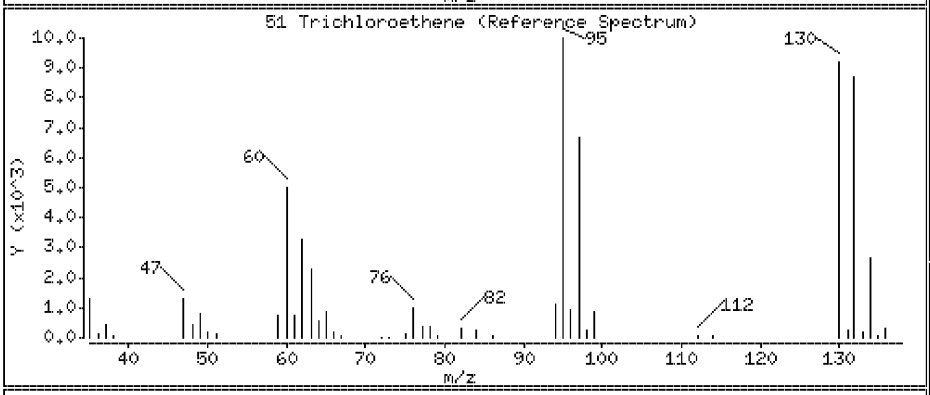
Column diameter: 0.32

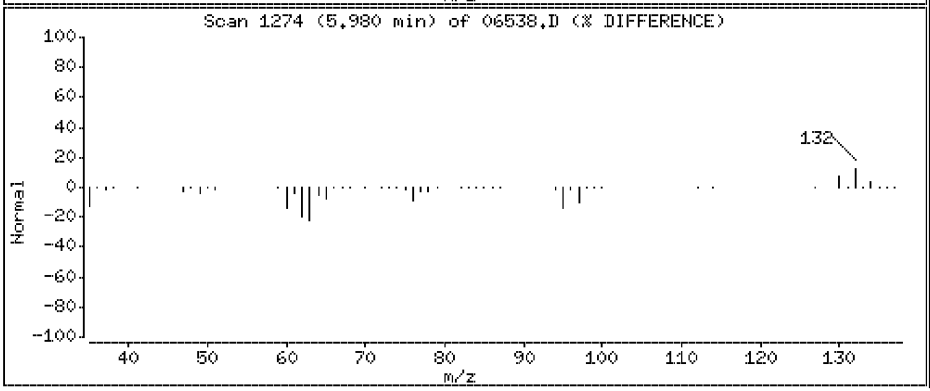
51 Trichloroethene

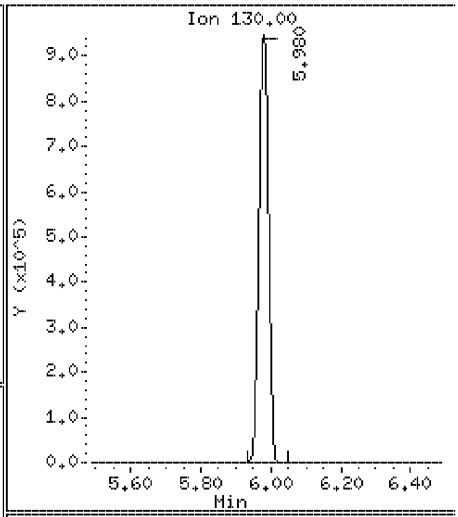
Concentration: 1300 ppbv

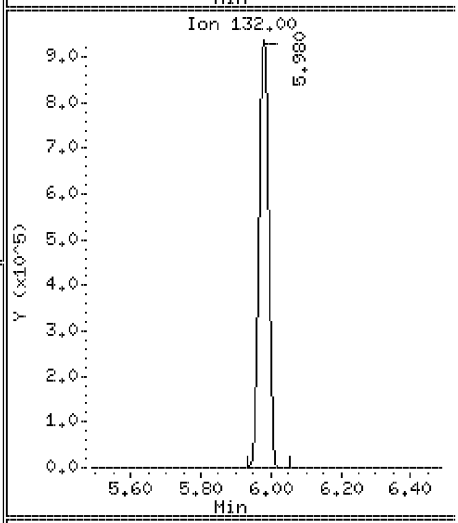


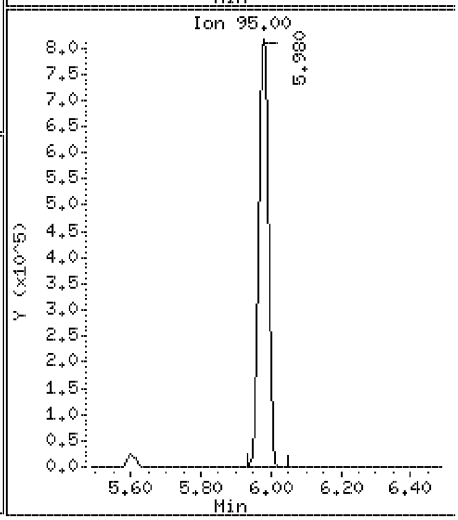












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

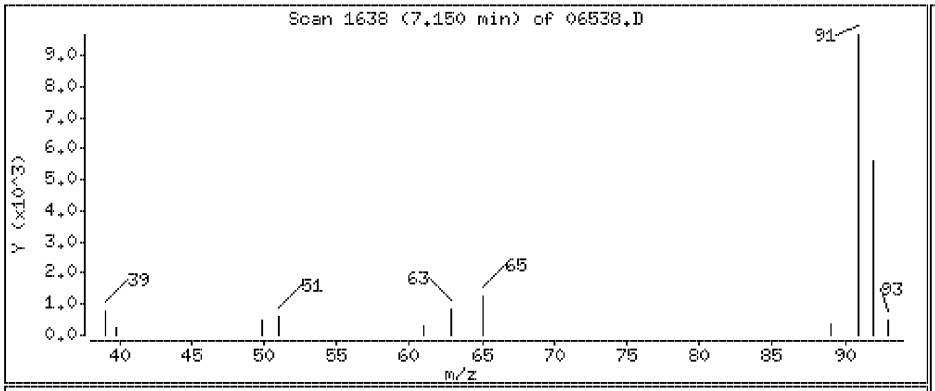
Operator: NCK

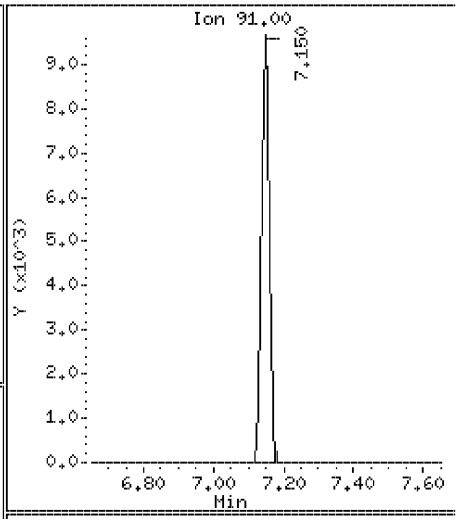
Column phase: J&W DB-5

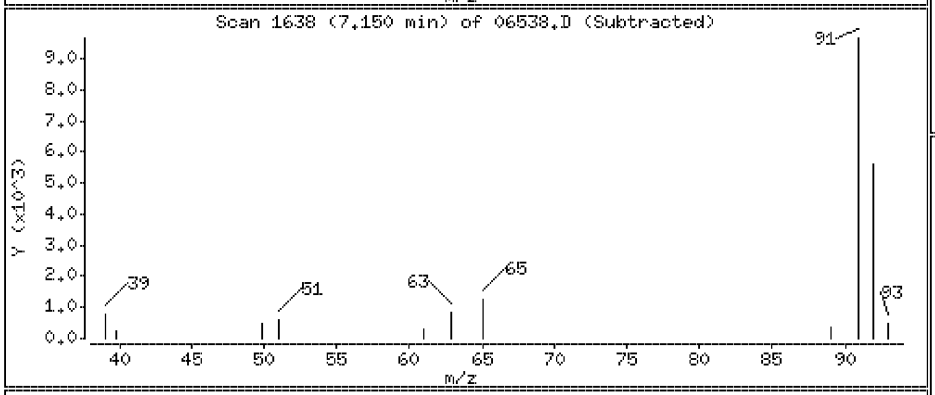
Column diameter: 0.32

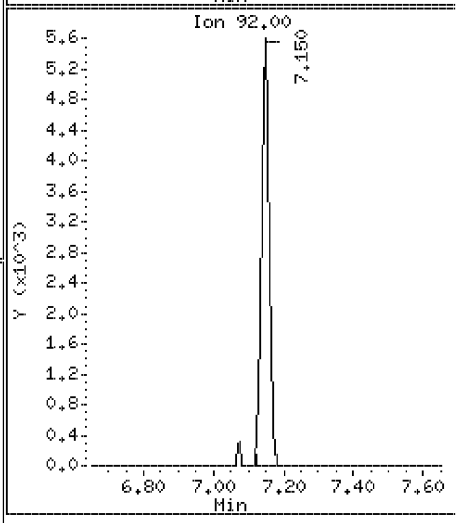
61 Toluene

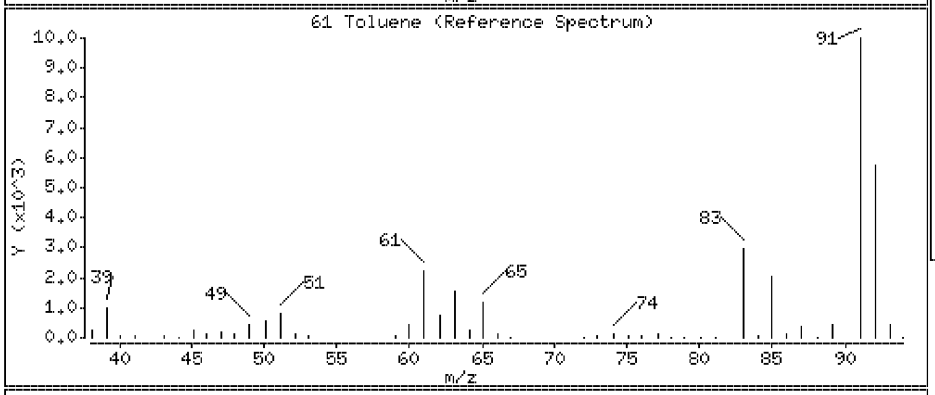
Concentration: 4.35 ppbv

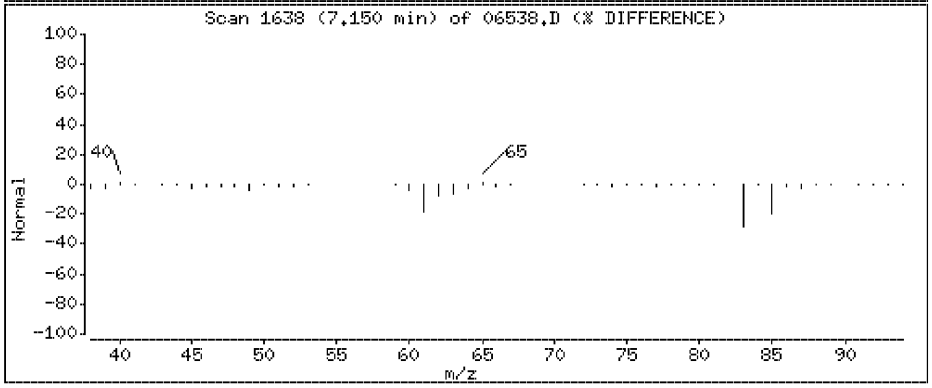












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

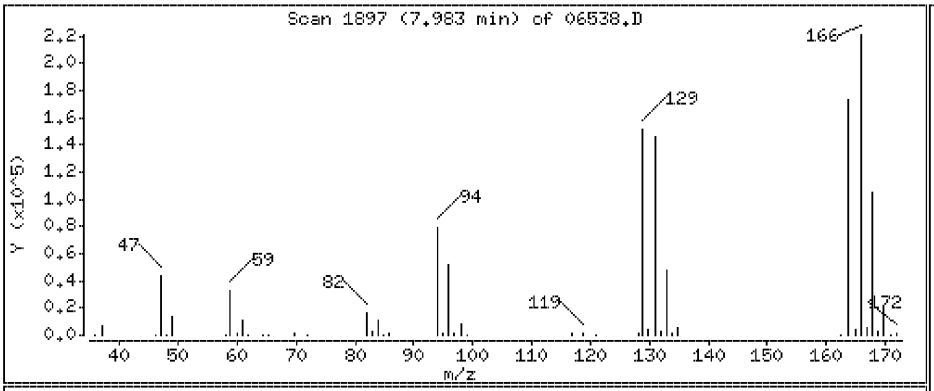
Operator: NCK

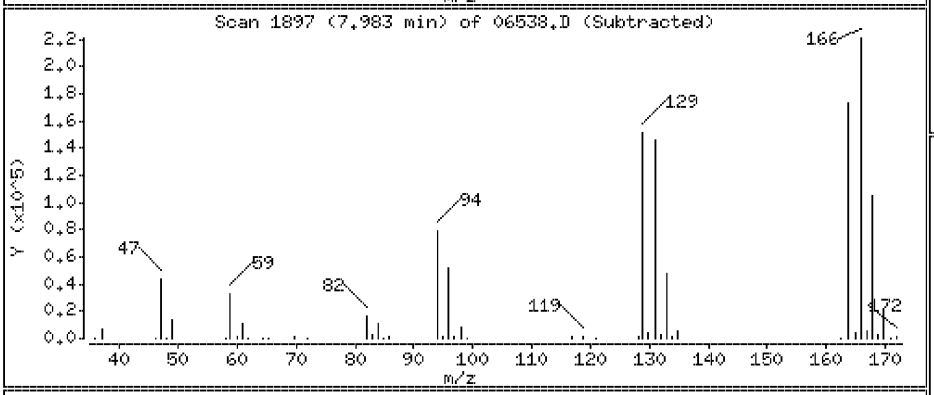
Column phase: J&W DB-5

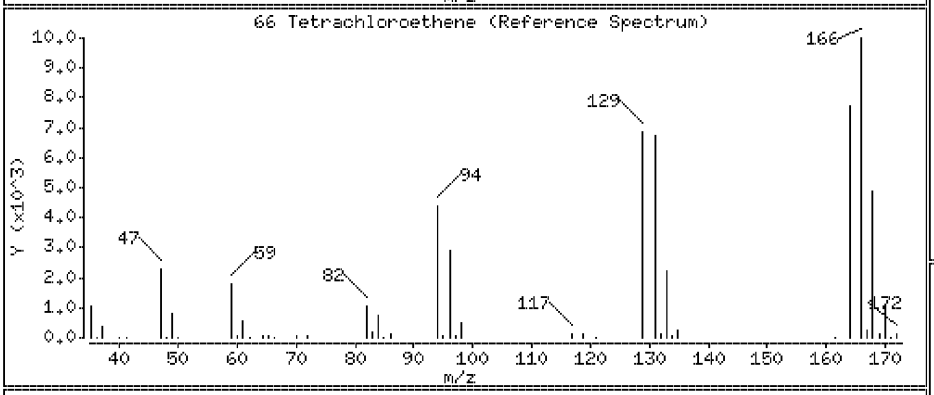
Column diameter: 0.32

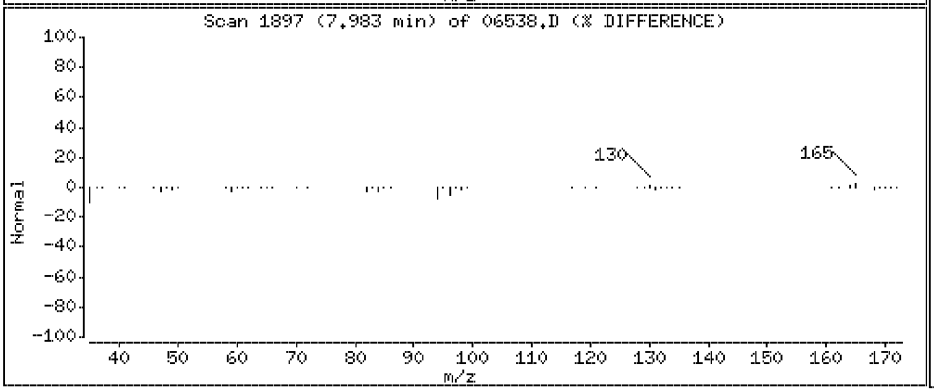
66 Tetrachloroethene

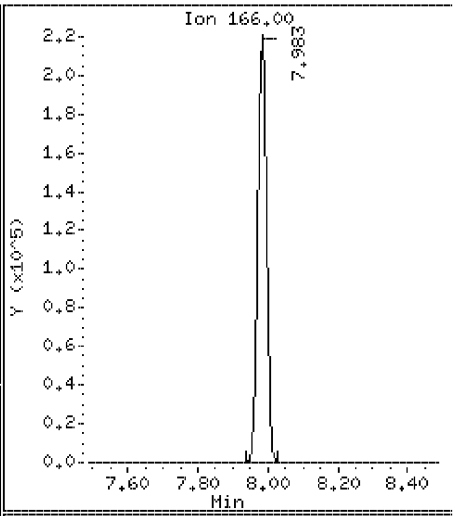
Concentration: 203 ppbv

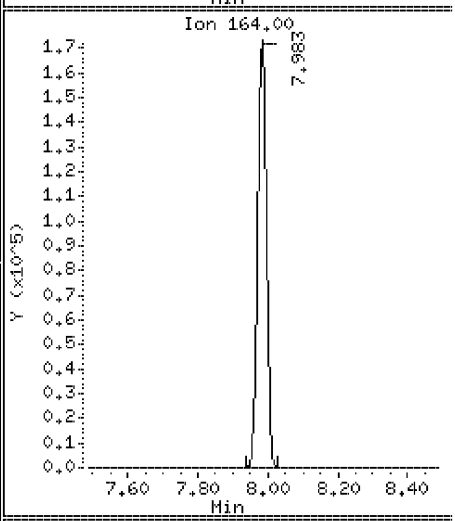


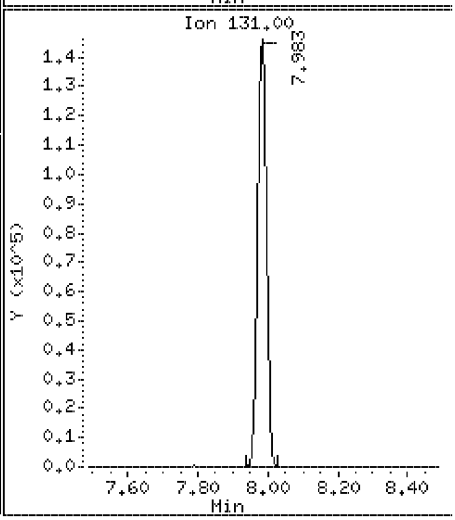












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06538.D

Date : 07-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

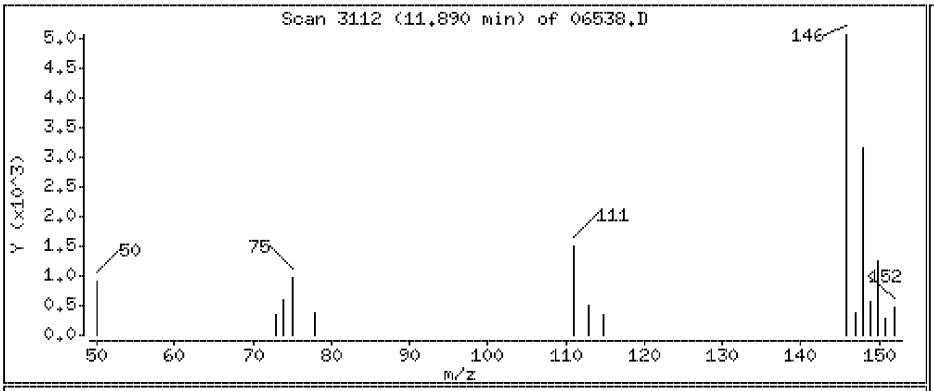
Operator: NCK

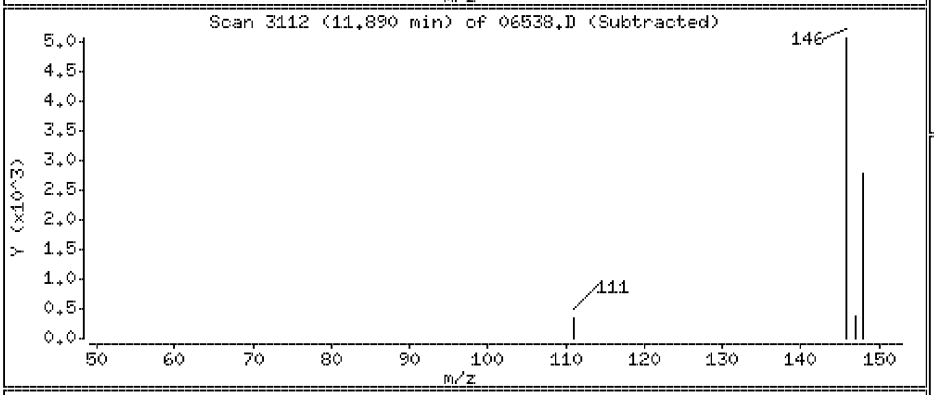
Column phase: J&W DB-5

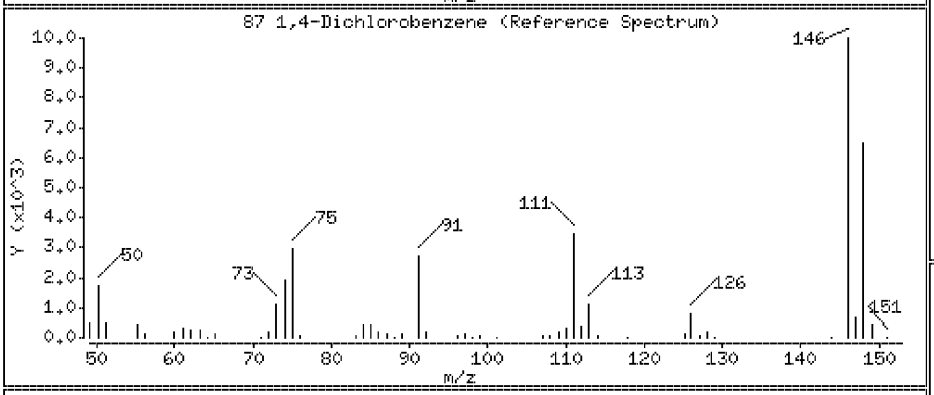
Column diameter: 0.32

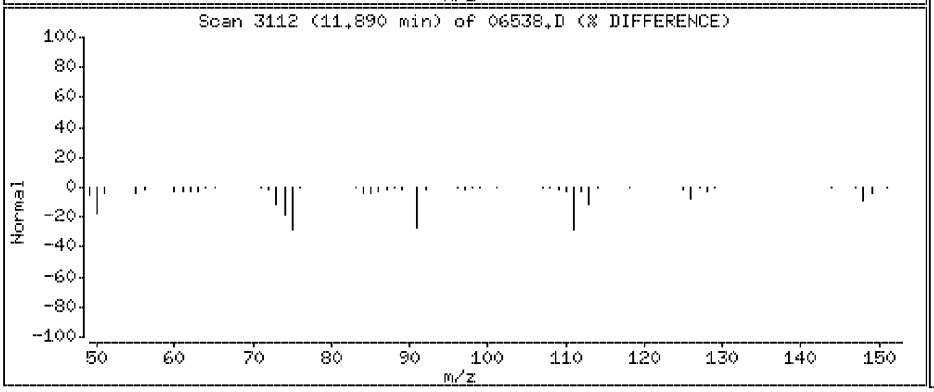
87 1,4-Dichlorobenzene

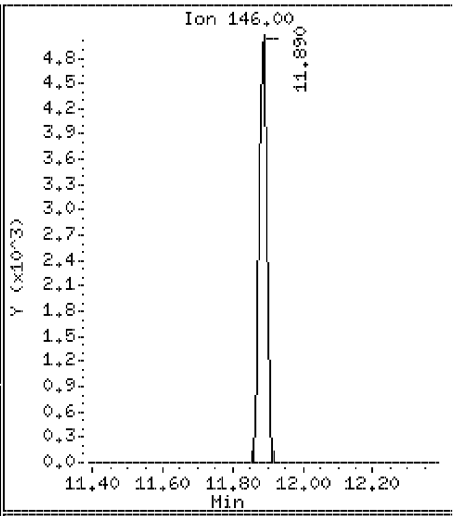
Concentration: 3.58 ppbv

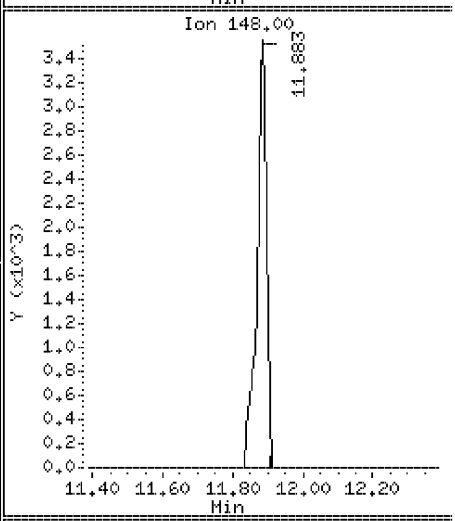


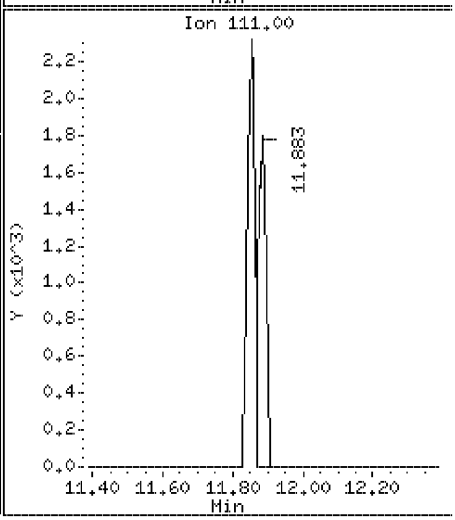












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06538.D
Injection Date: 07-MAR-2017 03:21
Instrument: 10airB.i
Lab Sample ID: 10380193018
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06615.D
Report Date: 08-Mar-2017 11:41

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030717.b\06615.D
Lab Smp Id: 10380193018
Inj Date : 07-MAR-2017 15:15
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27846
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Meth Date : 08-Mar-2017 09:09 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 15
Dil Factor: 280.00000
Integrator: HP RTE Compound Sublist: TCE.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	280.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$	32 Hexane-d14(S)	66	4.475	4.481	(0.800)	373994	8.38030	8.38
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	1402711	10.0000	
	51 Trichloroethene	130	5.970	5.986	(1.067)	187892	7.97228	2230
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	1185863	9.44561	9.45
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	883193	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	434909	8.93916	8.94

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06615.D
Report Date: 08-Mar-2017 11:41

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06615.D
Lab Smp Id: 10380193018
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Misc Info: 27846

Calibration Date: 07-MAR-2017
Calibration Time: 08:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

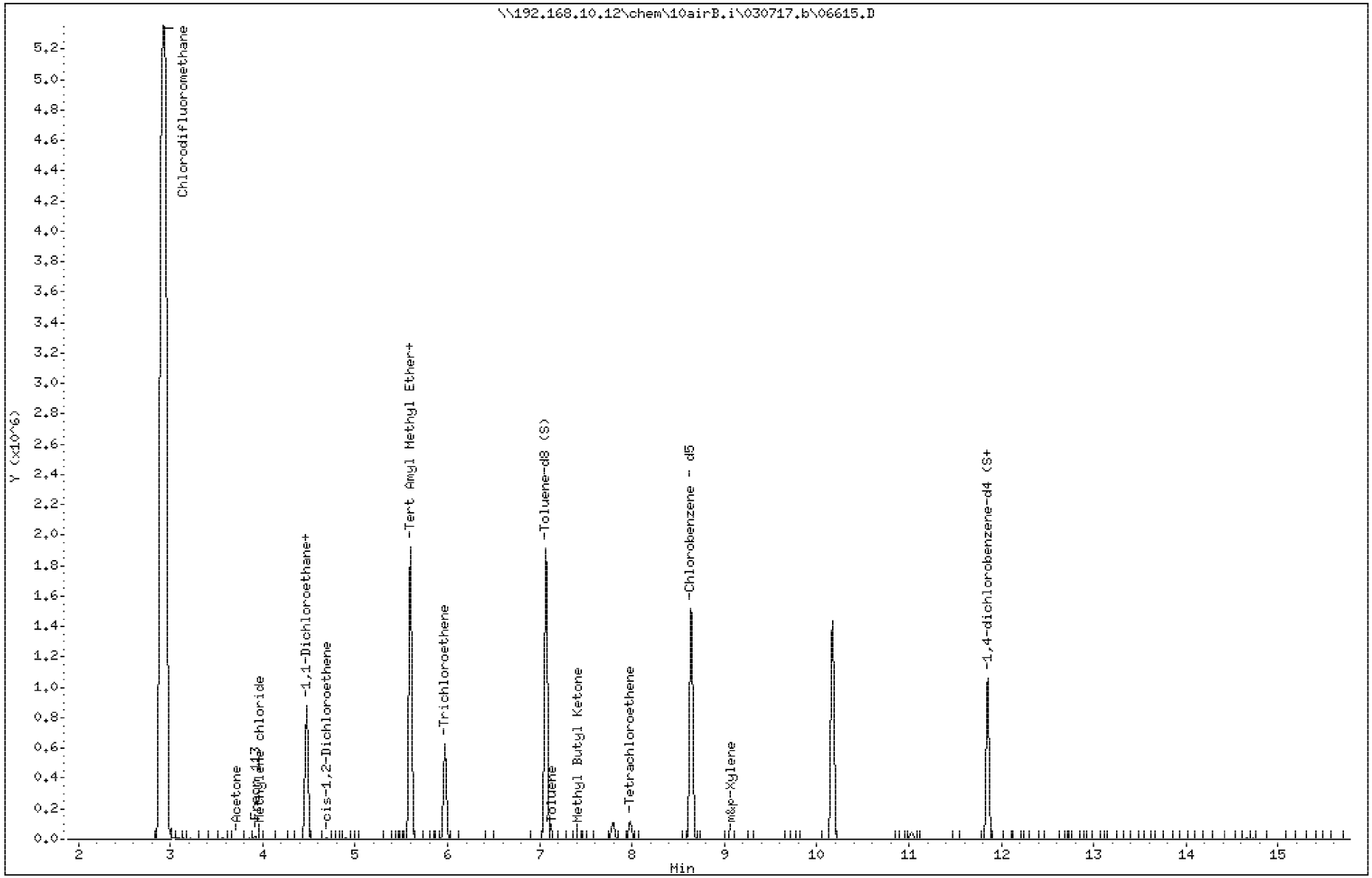
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1402711	-0.81
67 Chlorobenzene - d	951026	570616	1331436	883193	-7.13

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06615.D
Date : 07-MAR-2017 15:15
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030717.b\06615.D

Date : 07-MAR-2017 15:15

Client ID:

Instrument: 10airB.i

Sample Info:

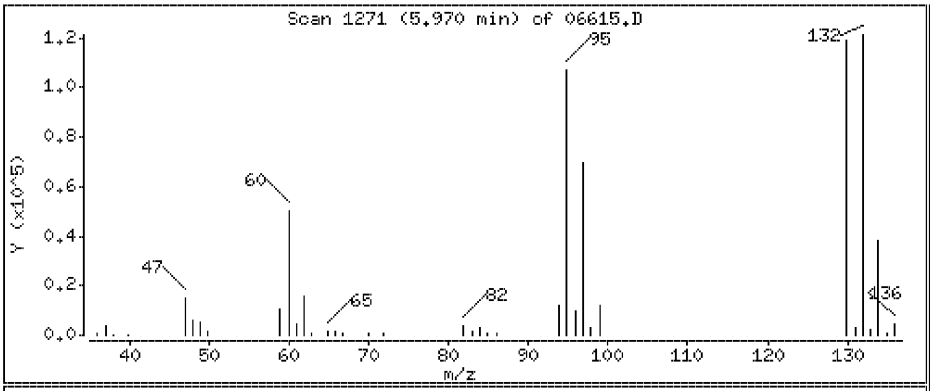
Operator: NCK

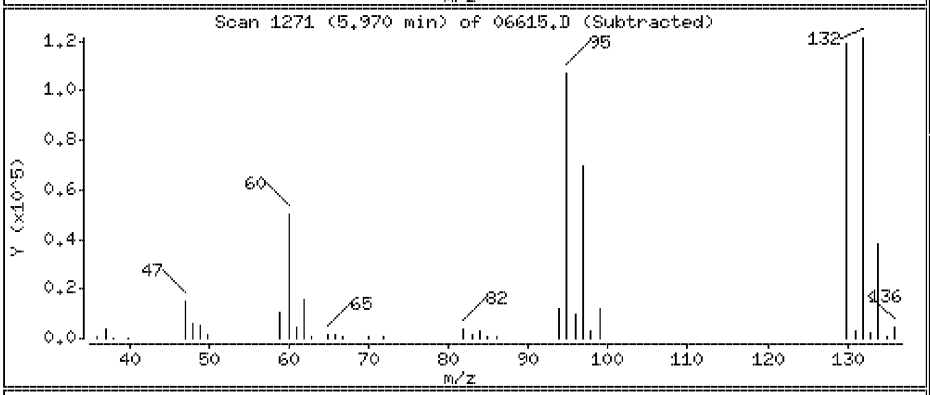
Column phase: J&W DB-5

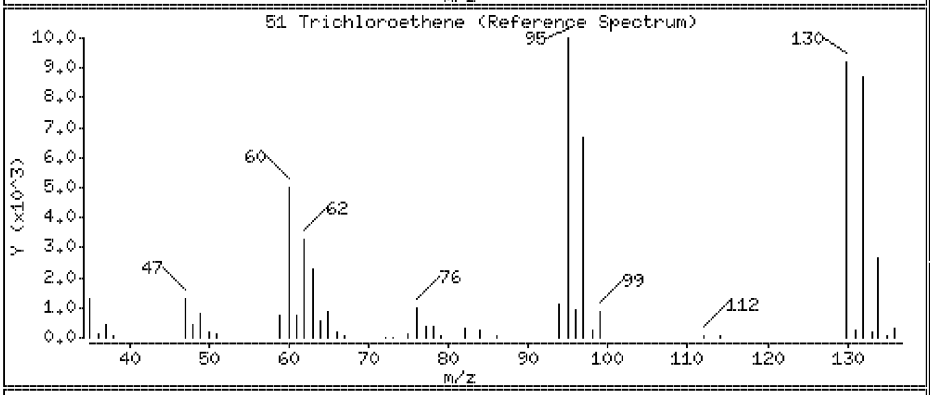
Column diameter: 0.32

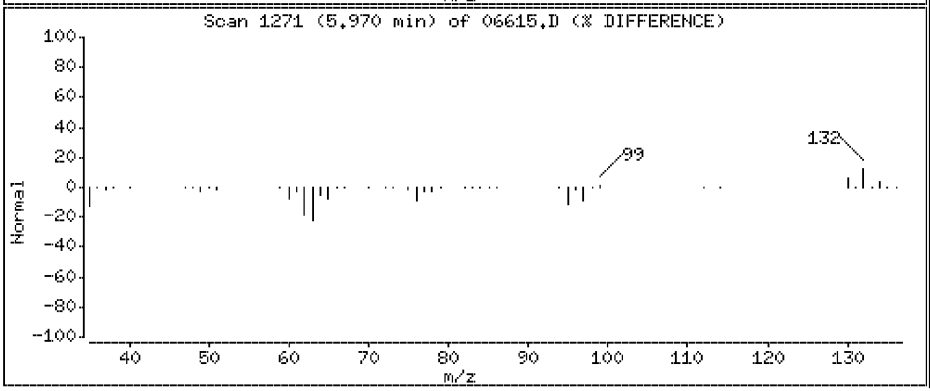
51 Trichloroethene

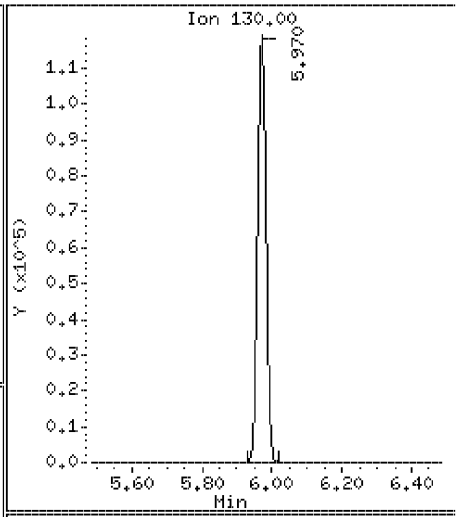
Concentration: 2230 ppbv

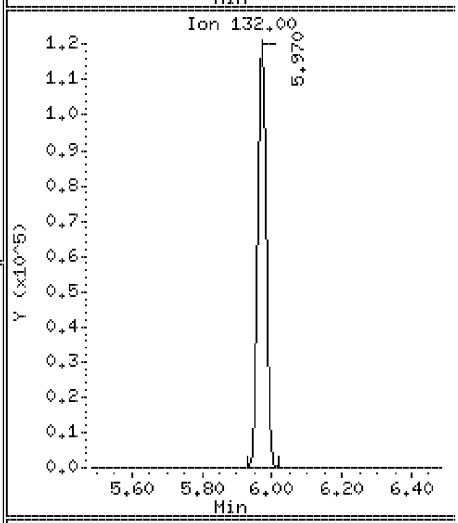


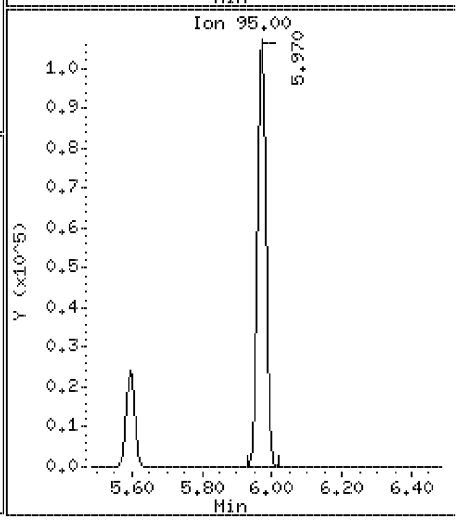












Data File: \\192.168.10.12\chem\10airB.i\030717.b/06615.D
Injection Date: 07-MAR-2017 15:15
Instrument: 10airB.i
Lab Sample ID: 10380193018
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_60_20170223DUP **Lab ID: 10380193019** Collected: 02/23/17 11:59 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<16.0**	ug/m3	46.3	16.0	19.2		03/07/17 03:49	67-64-1	
Allyl chloride	**<4.4**	ug/m3	30.5	4.4	19.2		03/07/17 03:49	107-05-1	
Benzene	**<2.3**	ug/m3	6.2	2.3	19.2		03/07/17 03:49	71-43-2	
Bromodichloromethane	**<3.7**	ug/m3	26.1	3.7	19.2		03/07/17 03:49	75-27-4	
Bromoform	**<17.3**	ug/m3	40.3	17.3	19.2		03/07/17 03:49	75-25-2	
Bromomethane	**<6.0**	ug/m3	15.2	6.0	19.2		03/07/17 03:49	74-83-9	
1,3-Butadiene	**<3.4**	ug/m3	8.6	3.4	19.2		03/07/17 03:49	106-99-0	
2-Butanone (MEK)	**<4.4**	ug/m3	57.6	4.4	19.2		03/07/17 03:49	78-93-3	
Carbon disulfide	**<1.9**	ug/m3	12.1	1.9	19.2		03/07/17 03:49	75-15-0	
Carbon tetrachloride	**<3.7**	ug/m3	12.3	3.7	19.2		03/07/17 03:49	56-23-5	
Chlorobenzene	**<2.6**	ug/m3	18.0	2.6	19.2		03/07/17 03:49	108-90-7	
Chlorodifluoromethane	**<5.3**	ug/m3	13.8	5.3	19.2		03/07/17 03:49	75-45-6	
Chloroethane	**<3.7**	ug/m3	10.4	3.7	19.2		03/07/17 03:49	75-00-3	
Chloroform	**44.9**	ug/m3	9.5	3.6	19.2		03/07/17 03:49	67-66-3	
Chloromethane	**<2.1**	ug/m3	8.1	2.1	19.2		03/07/17 03:49	74-87-3	
Chloropentafluoroethane	**<61.6**	ug/m3	61.6	61.6	19.2		03/07/17 03:49	76-15-3	CH
Cyclohexane	**<6.1**	ug/m3	13.4	6.1	19.2		03/07/17 03:49	110-82-7	
1,2-Dibromo-3-chloropropane	**<94.3**	ug/m3	94.3	94.3	19.2		03/07/17 03:49	96-12-8	
Dibromochloromethane	**<16.4**	ug/m3	33.2	16.4	19.2		03/07/17 03:49	124-48-1	
1,2-Dibromoethane (EDB)	**<14.9**	ug/m3	30.0	14.9	19.2		03/07/17 03:49	106-93-4	
1,2-Dichlorobenzene	**13.2J**	ug/m3	23.4	9.8	19.2		03/07/17 03:49	95-50-1	
1,3-Dichlorobenzene	**<10.2**	ug/m3	23.4	10.2	19.2		03/07/17 03:49	541-73-1	
1,4-Dichlorobenzene	**<9.6**	ug/m3	23.4	9.6	19.2		03/07/17 03:49	106-46-7	
Dichlorodifluoromethane	**<9.2**	ug/m3	19.4	9.2	19.2		03/07/17 03:49	75-71-8	
1,1-Dichloroethane	**<3.0**	ug/m3	15.7	3.0	19.2		03/07/17 03:49	75-34-3	
1,2-Dichloroethane	**<3.9**	ug/m3	7.9	3.9	19.2		03/07/17 03:49	107-06-2	
1,1-Dichloroethene	**13.0J**	ug/m3	15.6	4.6	19.2		03/07/17 03:49	75-35-4	
cis-1,2-Dichloroethene	**732**	ug/m3	15.6	4.7	19.2		03/07/17 03:49	156-59-2	
trans-1,2-Dichloroethene	**14.6J**	ug/m3	15.6	7.4	19.2		03/07/17 03:49	156-60-5	
1,2-Dichloropropane	**<5.2**	ug/m3	18.0	5.2	19.2		03/07/17 03:49	78-87-5	
cis-1,3-Dichloropropene	**<7.1**	ug/m3	17.7	7.1	19.2		03/07/17 03:49	10061-01-5	
trans-1,3-Dichloropropene	**<5.0**	ug/m3	17.7	5.0	19.2		03/07/17 03:49	10061-02-6	
Dichlorotetrafluoroethane	**<6.0**	ug/m3	27.3	6.0	19.2		03/07/17 03:49	76-14-2	
Freon 123	**<61.1**	ug/m3	61.1	61.1	19.2		03/07/17 03:49	306-83-2	
1,4-Dioxane (p-Dioxane)	**<6.8**	ug/m3	70.3	6.8	19.2		03/07/17 03:49	123-91-1	
Ethylbenzene	**<8.2**	ug/m3	16.9	8.2	19.2		03/07/17 03:49	100-41-4	
4-Ethyltoluene	**<3.6**	ug/m3	19.2	3.6	19.2		03/07/17 03:49	622-96-8	
Hexachloro-1,3-butadiene	**<12.5**	ug/m3	41.6	12.5	19.2		03/07/17 03:49	87-68-3	
n-Hexane	**<6.9**	ug/m3	13.8	6.9	19.2		03/07/17 03:49	110-54-3	
2-Hexanone	**<7.9**	ug/m3	79.9	7.9	19.2		03/07/17 03:49	591-78-6	
Isopropylbenzene (Cumene)	**<2.6**	ug/m3	48.0	2.6	19.2		03/07/17 03:49	98-82-8	
Methyl acetate	**<29.6**	ug/m3	29.6	29.6	19.2		03/07/17 03:49	79-20-9	
Methylcyclohexane	**<4.6**	ug/m3	15.7	4.6	19.2		03/07/17 03:49	108-87-2	
Methylene Chloride	**<10.4**	ug/m3	67.8	10.4	19.2		03/07/17 03:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<4.2**	ug/m3	79.9	4.2	19.2		03/07/17 03:49	108-10-1	
Methyl-tert-butyl ether	**<5.8**	ug/m3	70.4	5.8	19.2		03/07/17 03:49	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_60_20170223DUP **Lab ID: 10380193019** Collected: 02/23/17 11:59 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<4.6**	ug/m3	48.0	4.6	19.2		03/07/17 03:49	67-63-0	
Styrene	**<3.7**	ug/m3	16.7	3.7	19.2		03/07/17 03:49	100-42-5	
1,1,2,2-Tetrachloroethane	**<6.3**	ug/m3	13.4	6.3	19.2		03/07/17 03:49	79-34-5	
Tetrachloroethene	**3100**	ug/m3	13.2	5.3	19.2		03/07/17 03:49	127-18-4	
Toluene	**21.0**	ug/m3	14.8	3.0	19.2		03/07/17 03:49	108-88-3	
1,2,4-Trichlorobenzene	**<17.5**	ug/m3	72.4	17.5	19.2		03/07/17 03:49	120-82-1	
1,1,1-Trichloroethane	**11.8J**	ug/m3	21.3	4.7	19.2		03/07/17 03:49	71-55-6	
1,1,2-Trichloroethane	**<4.7**	ug/m3	10.6	4.7	19.2		03/07/17 03:49	79-00-5	
Trichloroethene	**13100**	ug/m3	10.6	5.3	19.2		03/07/17 03:49	79-01-6	
Trichloroethene	**85700**	ug/m3	1350	678	2457.6		03/07/17 16:38	79-01-6	A3
Trichlorofluoromethane	**<2.5**	ug/m3	21.9	2.5	19.2		03/07/17 03:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**329**	ug/m3	30.7	5.8	19.2		03/07/17 03:49	76-13-1	
1,2,4-Trimethylbenzene	**<2.4**	ug/m3	19.2	2.4	19.2		03/07/17 03:49	95-63-6	
1,3,5-Trimethylbenzene	**<3.5**	ug/m3	19.2	3.5	19.2		03/07/17 03:49	108-67-8	
Vinyl chloride	**<3.7**	ug/m3	5.0	3.7	19.2		03/07/17 03:49	75-01-4	
m&p-Xylene	**<15.1**	ug/m3	34.0	15.1	19.2		03/07/17 03:49	179601-23-1	
o-Xylene	**<6.7**	ug/m3	16.9	6.7	19.2		03/07/17 03:49	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D
Report Date: 07-Mar-2017 10:54

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06539.D
Lab Smp Id: 10380193019
Inj Date : 07-MAR-2017 03:49
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27846
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 09:17 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 39
Dil Factor: 19.20000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	19.200	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.552	3.545	(0.634)	1685	0.33266	6.39	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.886	3.912	(0.693)	3705	0.16856	3.24	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.928	3.954	(0.701)	62720	2.19763	42.2	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D
Report Date: 07-Mar-2017 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	4.243	4.278	(0.757)	2329	0.18885	3.63	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.799)	378526	8.63057	8.63	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.700	4.725	(0.838)	130320	9.45782	182(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.858)	13464	0.47144	9.05	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.211	5.230	(0.929)	3712	0.11048	2.12	
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.606	5.613	(1.000)	1378541	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.983	5.989	(1.067)	2895602	125.015	2400(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.073	7.079	(1.261)	1166858	9.45719	9.46	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.147	7.153	(1.275)	15892	0.28543	5.48	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.989	(0.924)	734145	23.3949	449	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	903712	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D
Report Date: 07-Mar-2017 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	447894	8.99703	9.00	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	12.278	12.281	(1.421)	833	0.11256	2.16	
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D
Report Date: 07-Mar-2017 10:54

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06539.D
Lab Smp Id: 10380193019
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27846

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

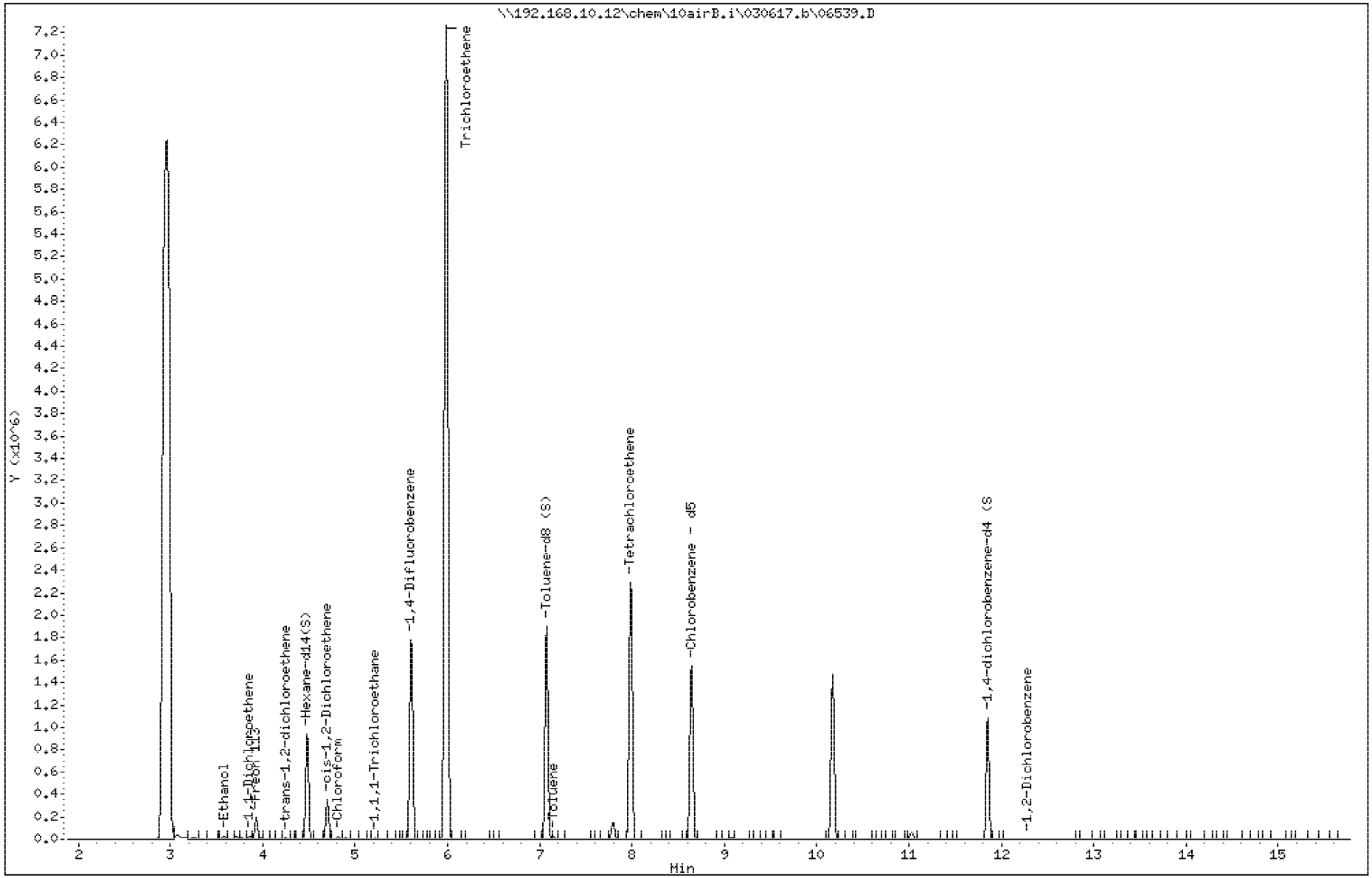
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1378541	-2.52
67 Chlorobenzene - d	951026	570616	1331436	903712	-4.98

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D
Date : 07-MAR-2017 03:49
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

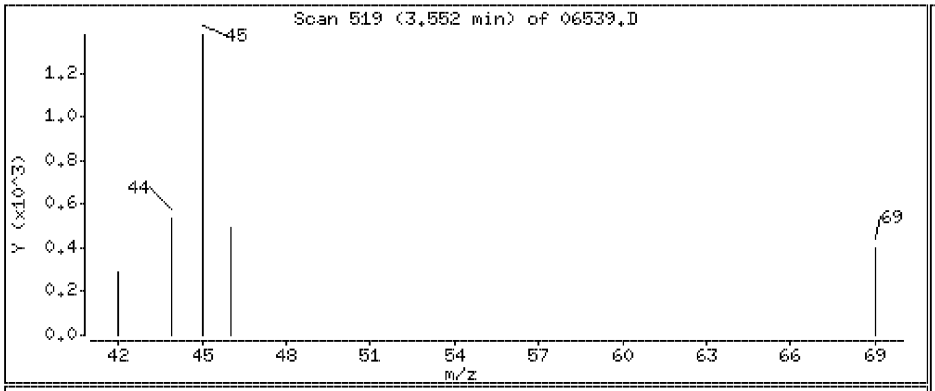
Operator: NCK

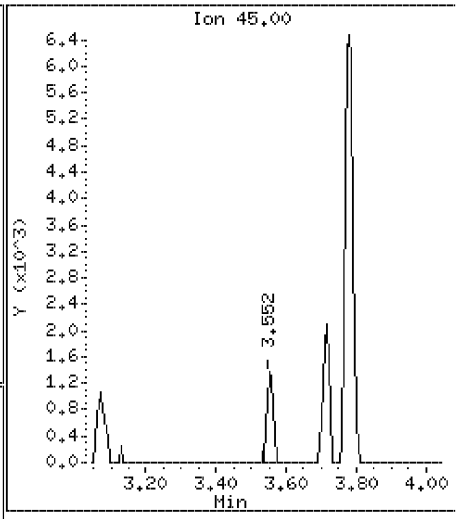
Column phase: J&W DB-5

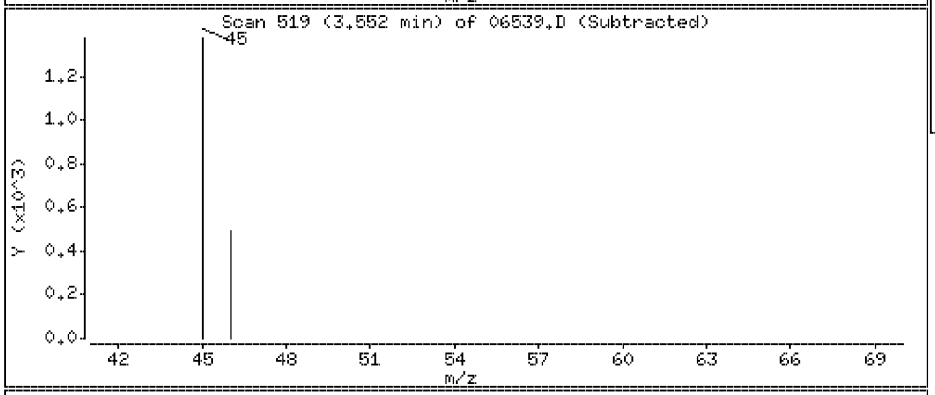
Column diameter: 0.32

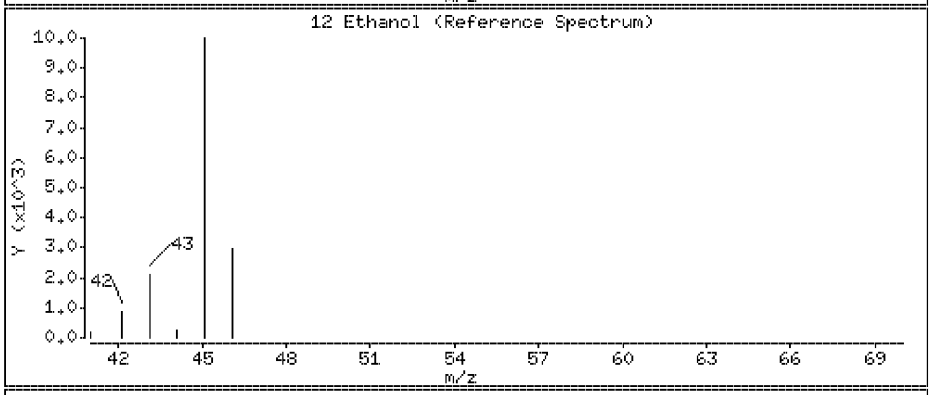
12 Ethanol

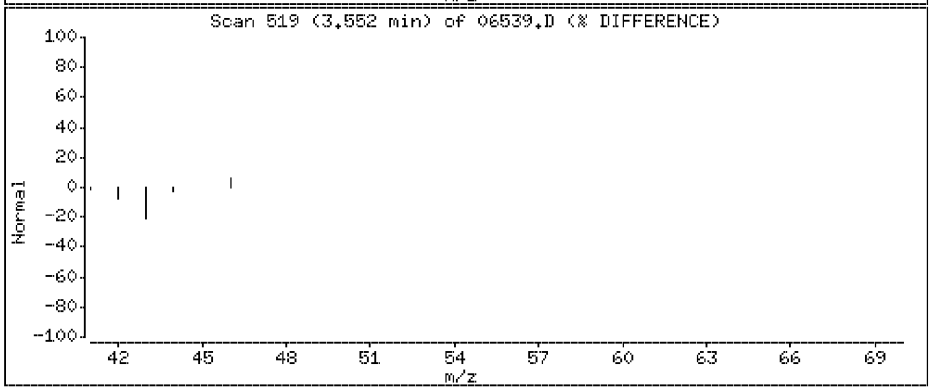
Concentration: 6.39 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

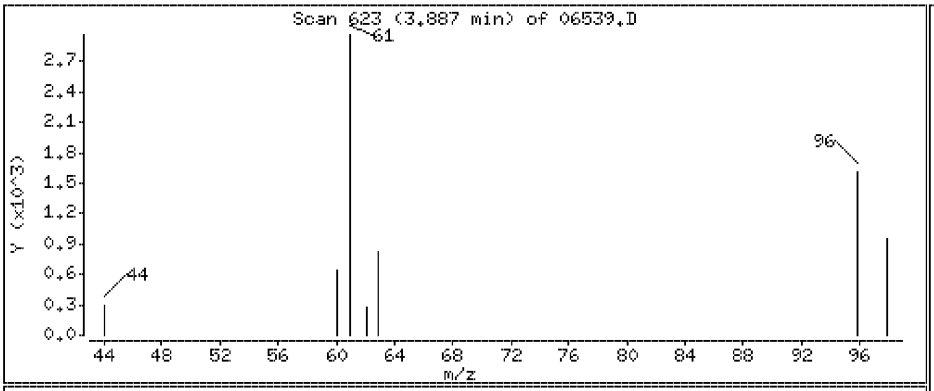
Operator: NCK

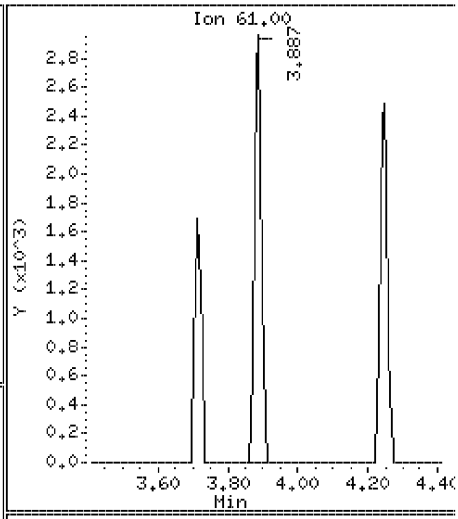
Column phase: J&W DB-5

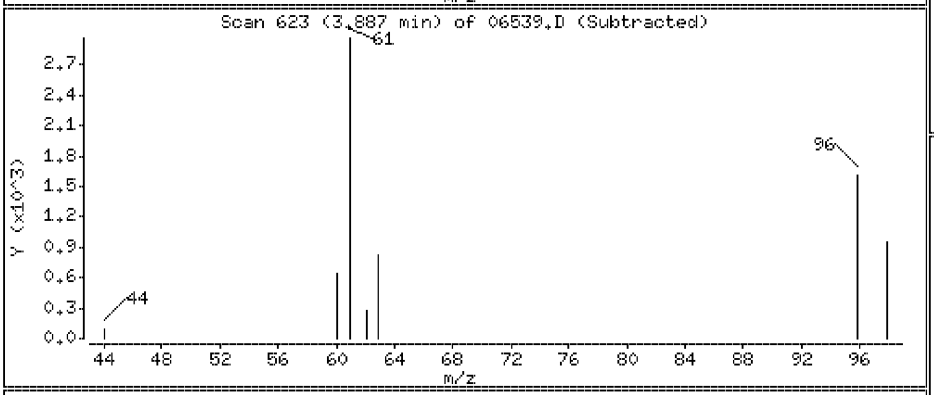
Column diameter: 0.32

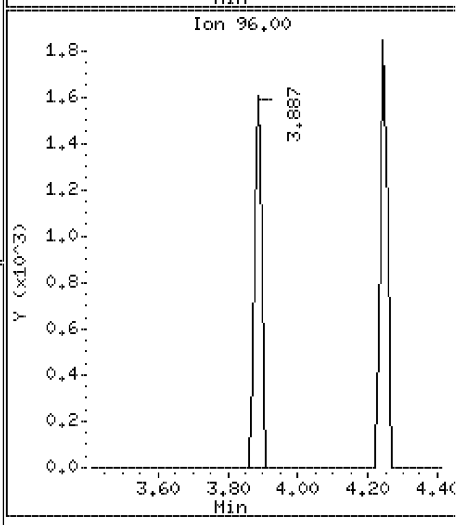
20 1,1-Dichloroethene

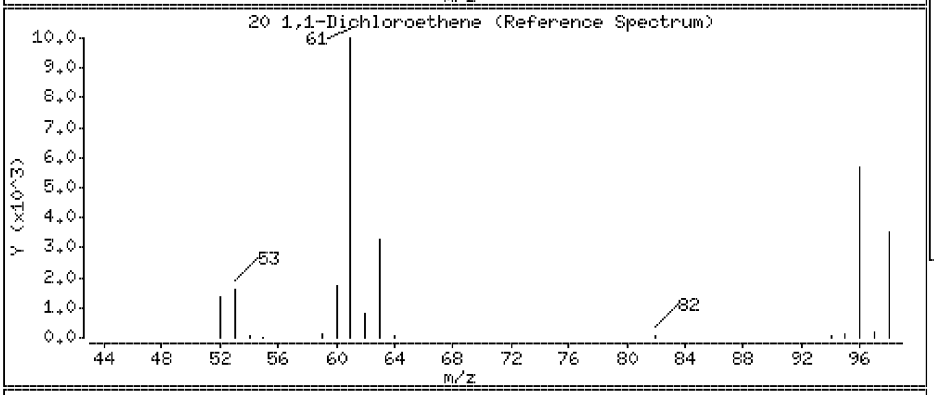
Concentration: 3.24 ppbv

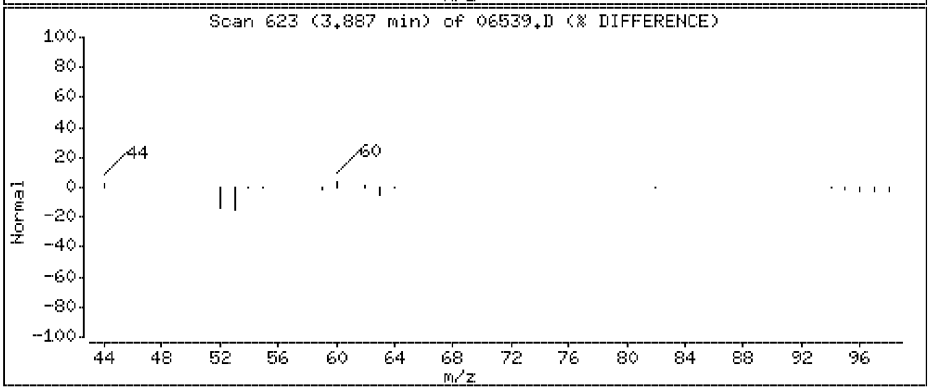












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

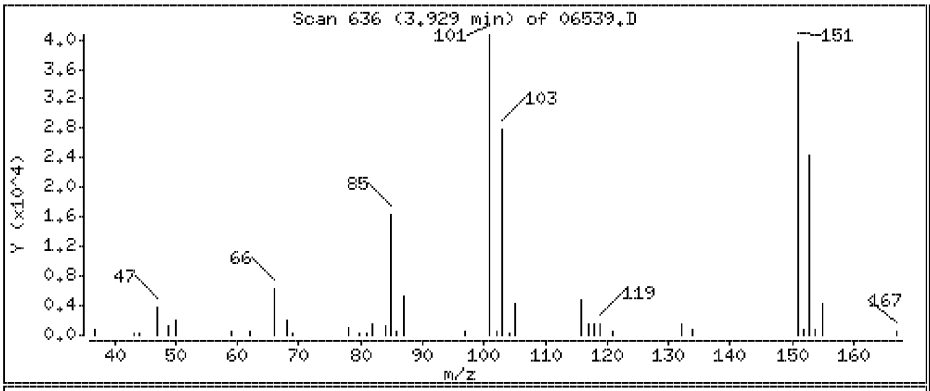
Operator: NCK

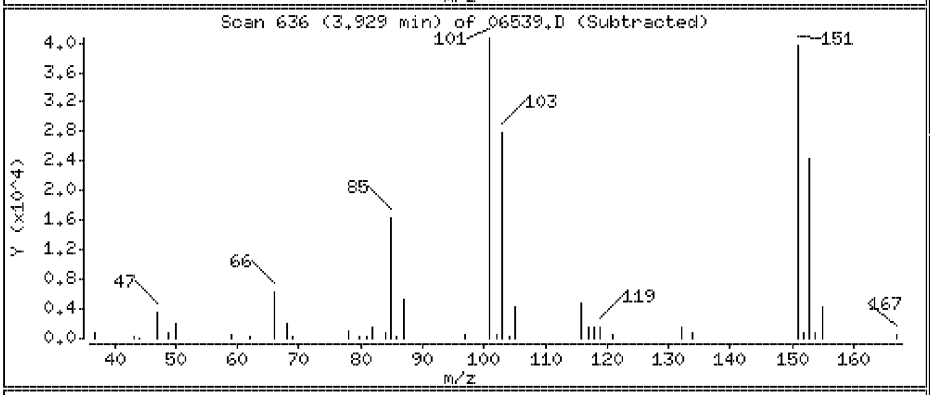
Column phase: J&W DB-5

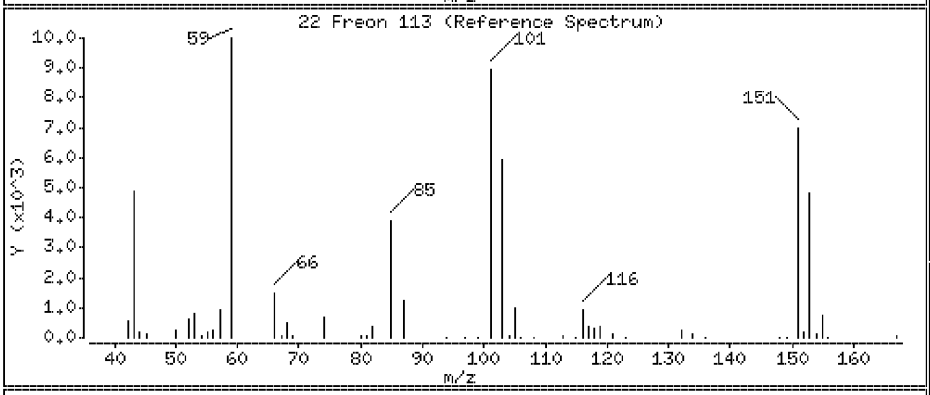
Column diameter: 0.32

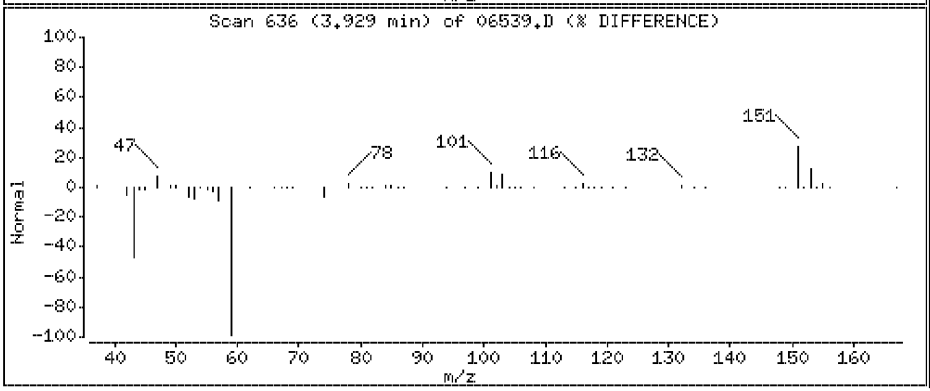
22 Freon 113

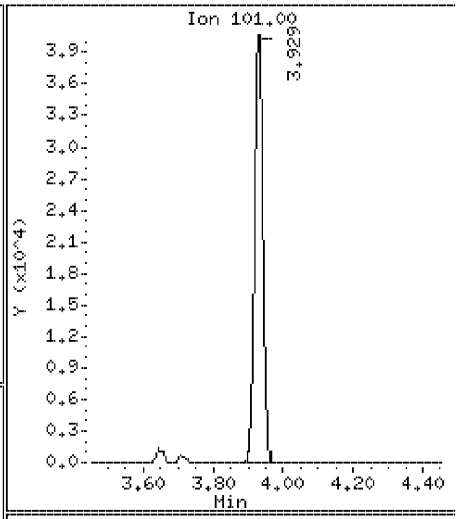
Concentration: 42.2 ppbv

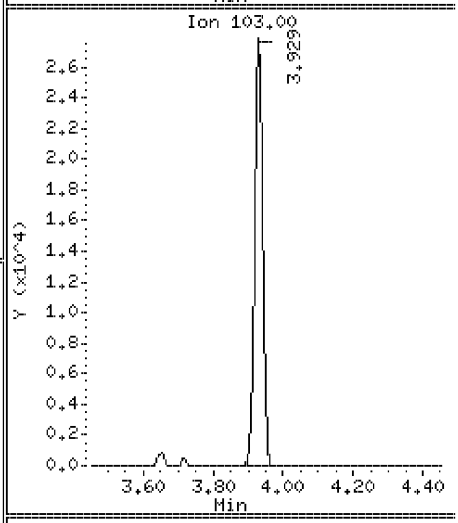


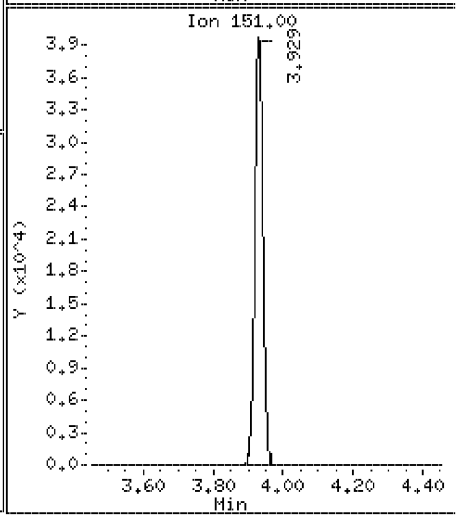












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

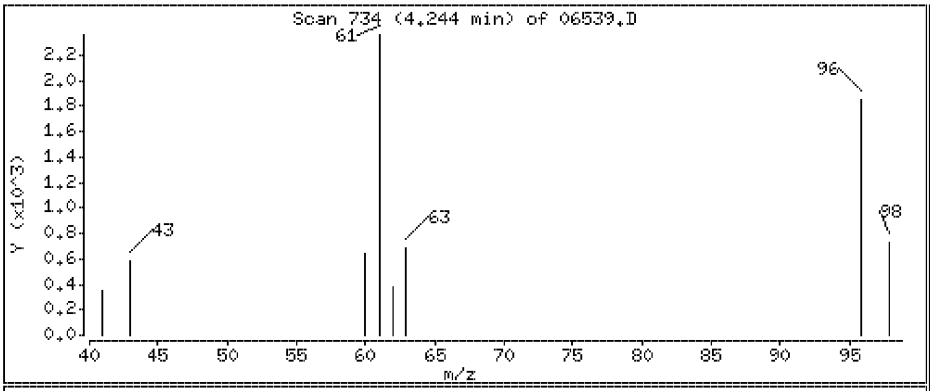
Operator: NCK

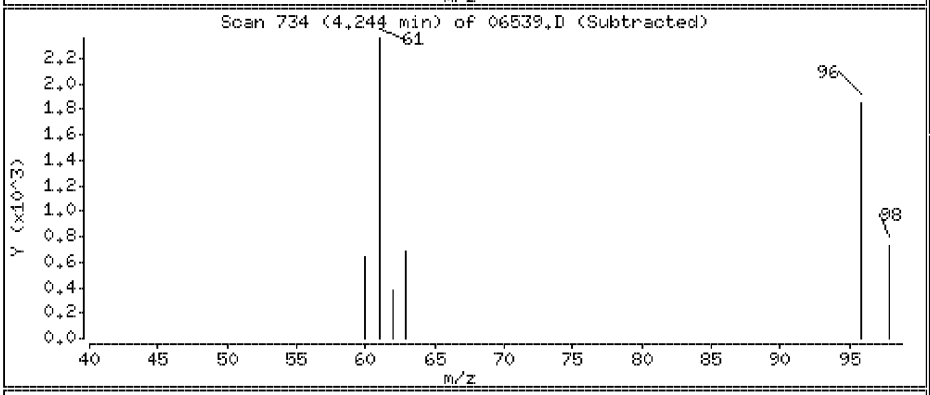
Column phase: J&W DB-5

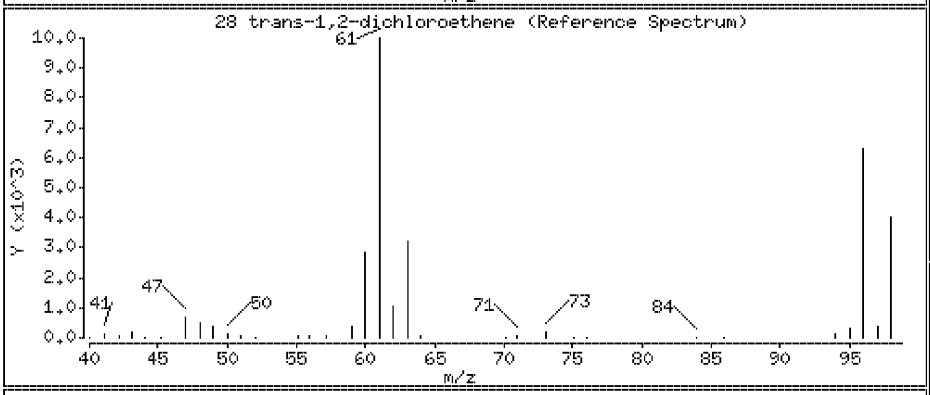
Column diameter: 0.32

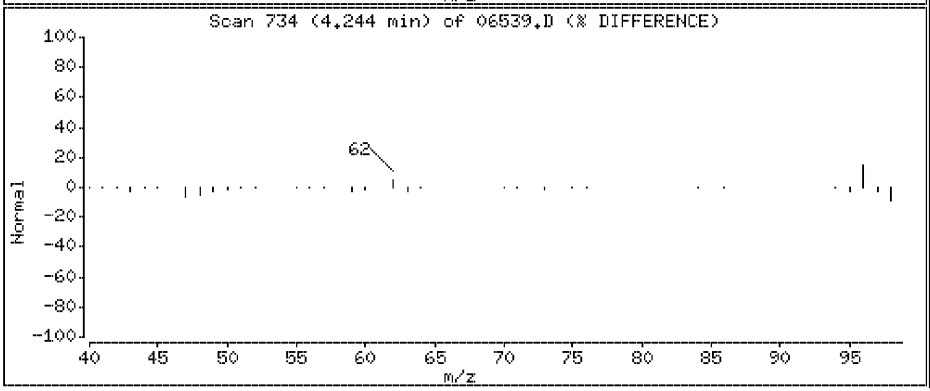
28 trans-1,2-dichloroethene

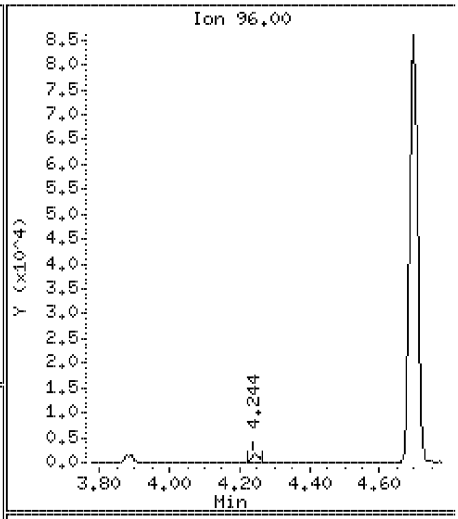
Concentration: 3.63 ppbv

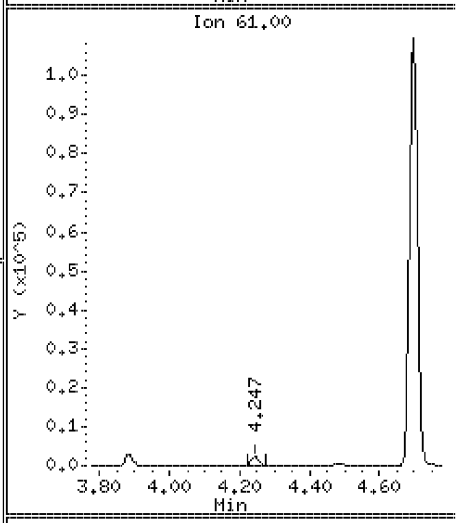


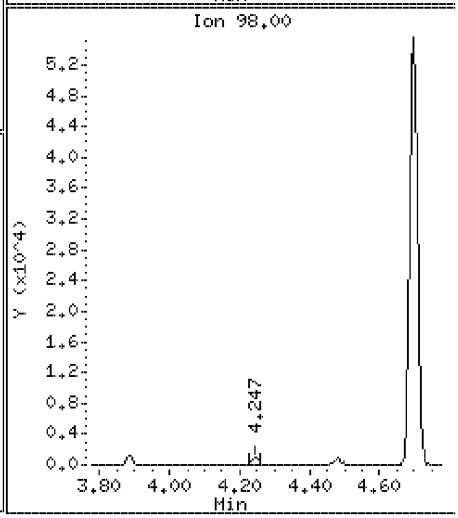












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

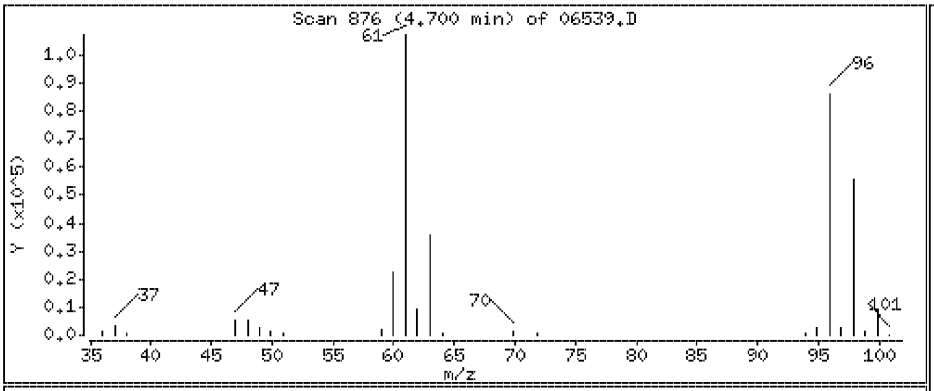
Operator: NCK

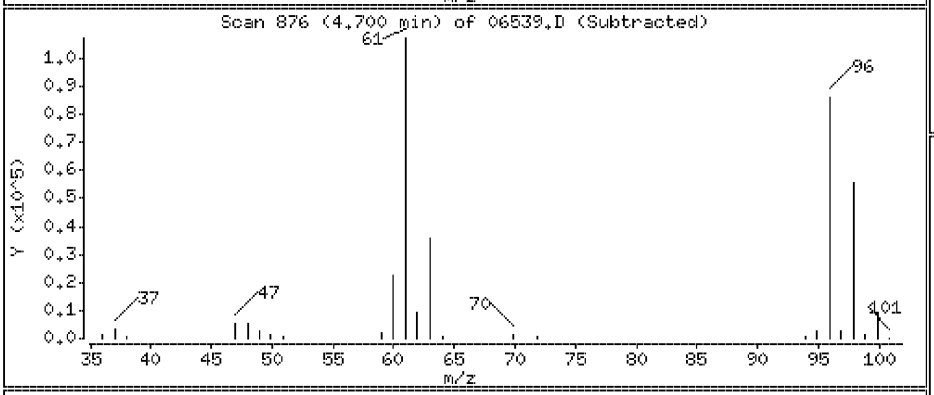
Column phase: J&W DB-5

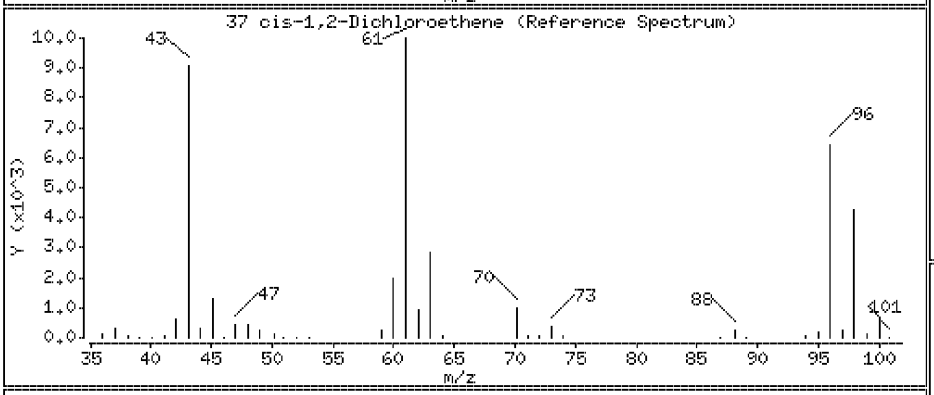
Column diameter: 0.32

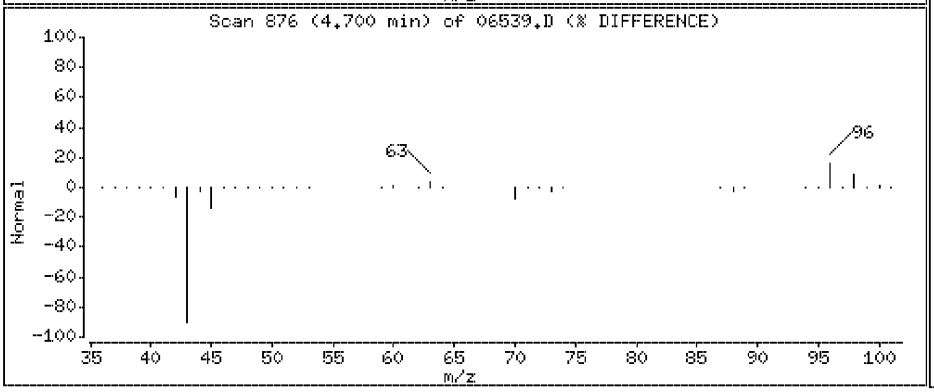
37 cis-1,2-Dichloroethene

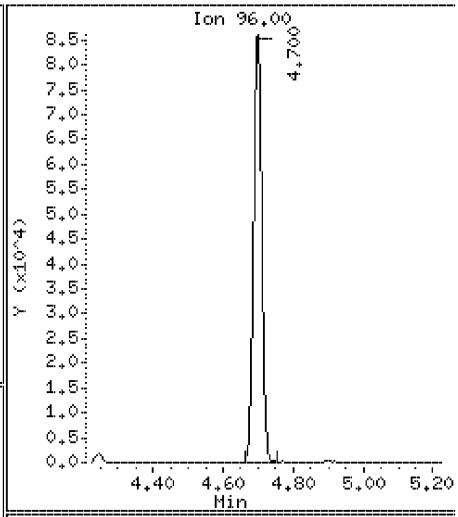
Concentration: 182 ppbv

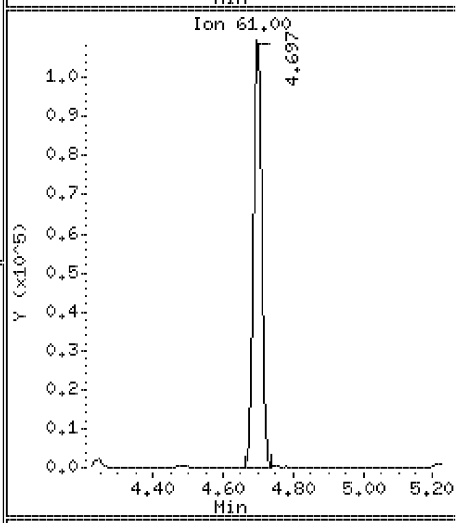


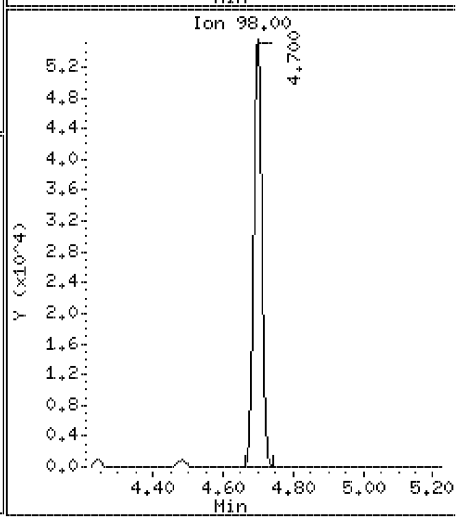












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

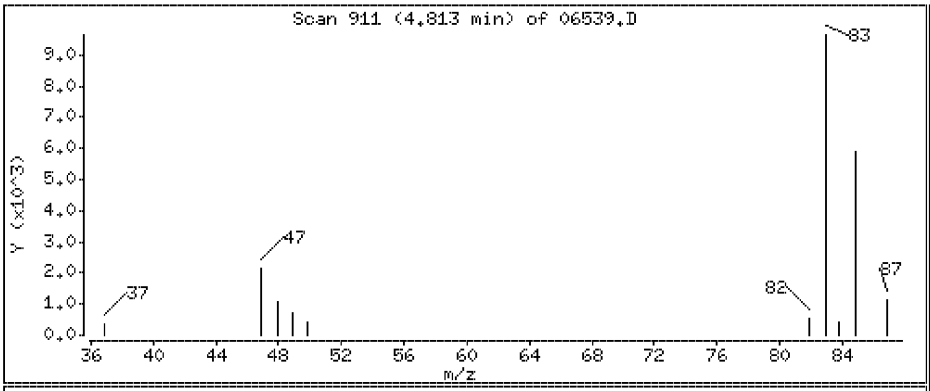
Operator: NCK

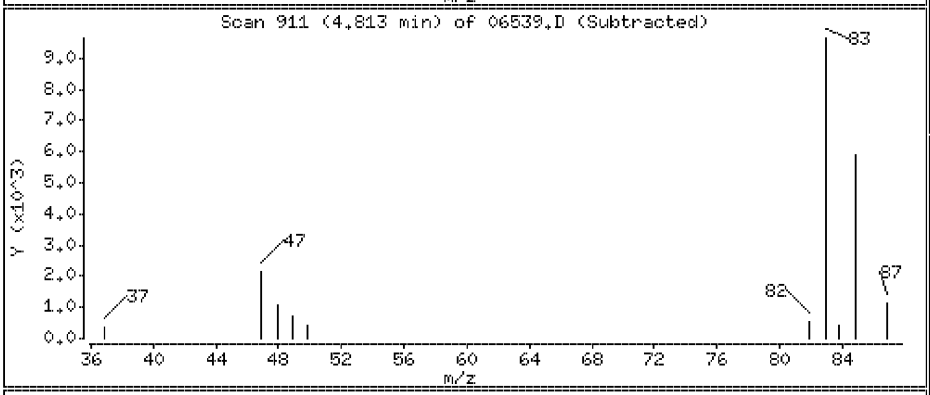
Column phase: J&W DB-5

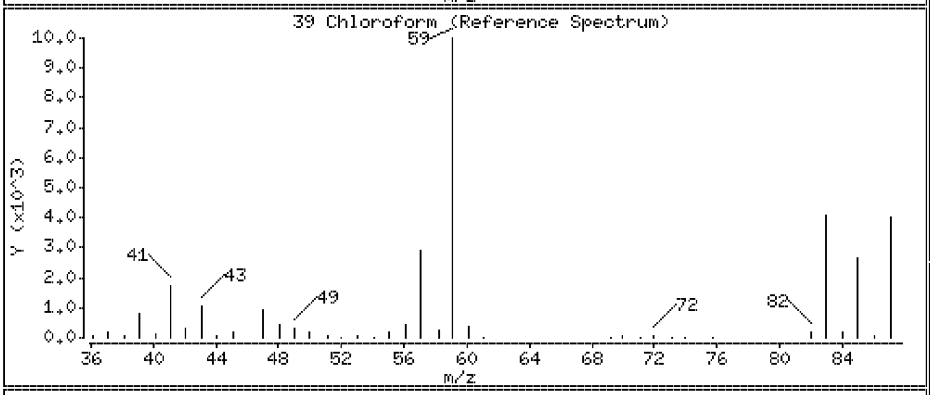
Column diameter: 0.32

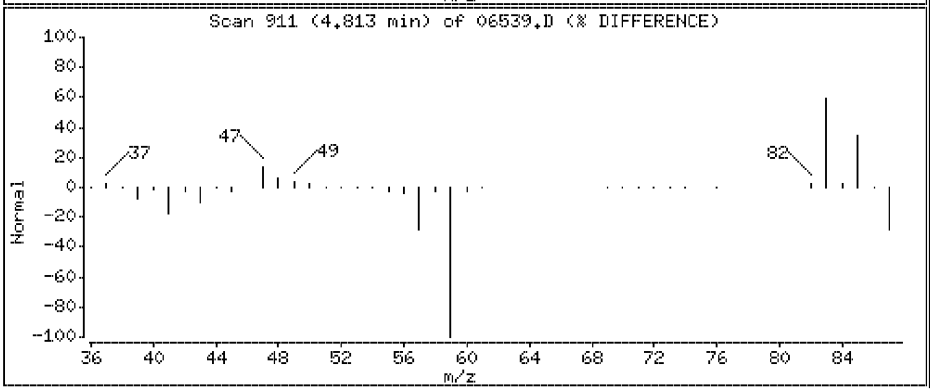
39 Chloroform

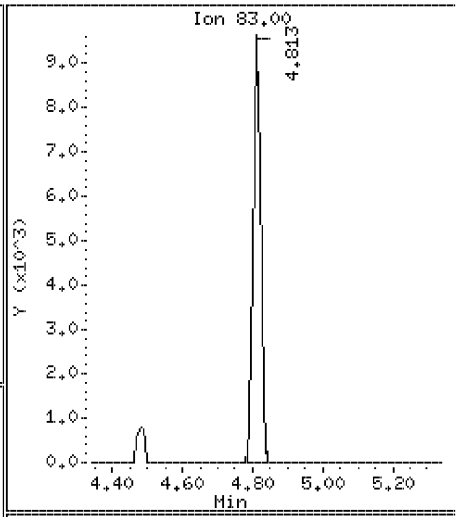
Concentration: 9.05 ppbv

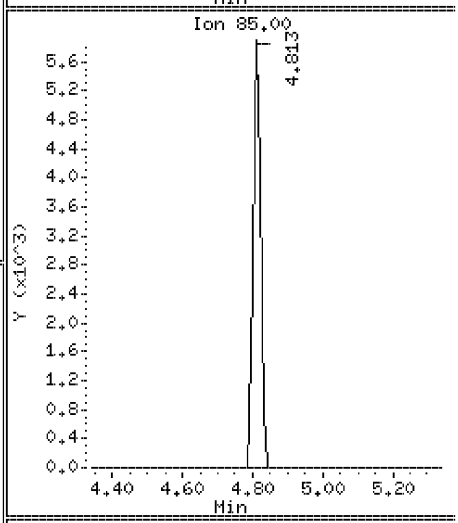


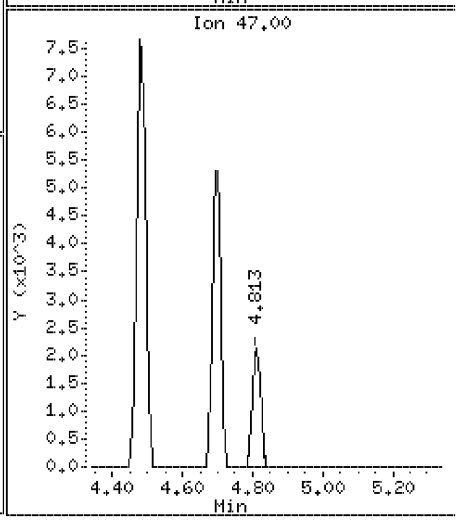












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

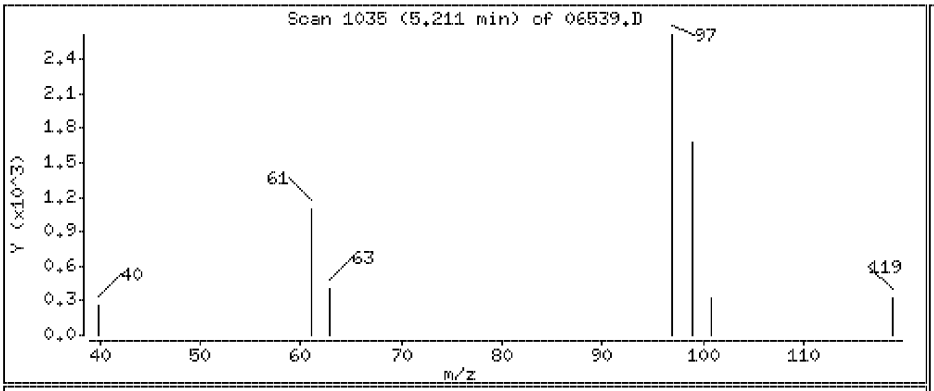
Operator: NCK

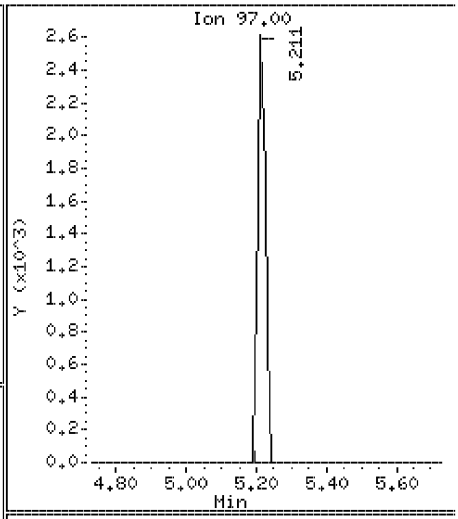
Column phase: J&W DB-5

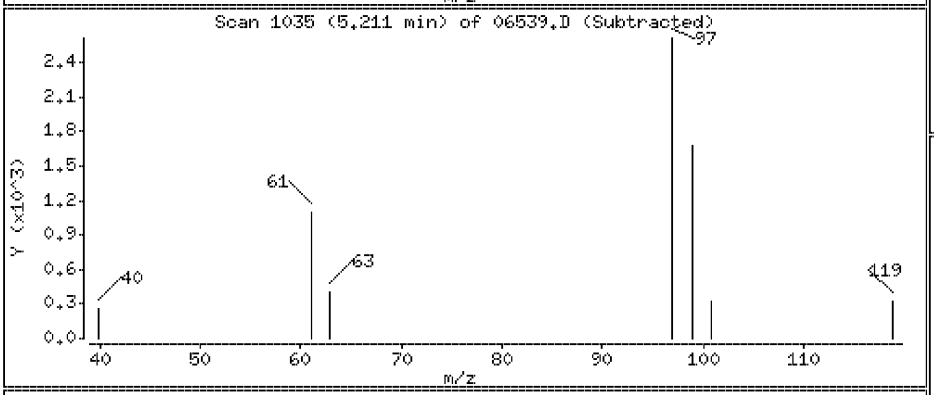
Column diameter: 0.32

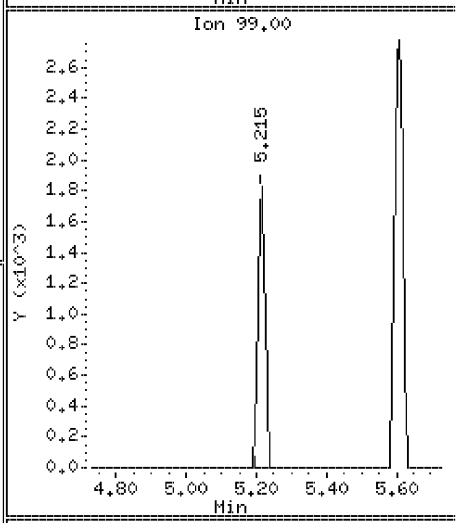
41 1,1,1-Trichloroethane

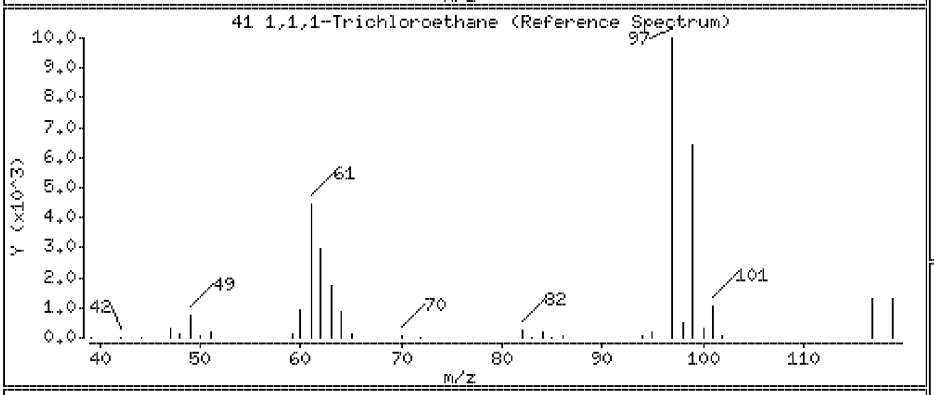
Concentration: 2.12 ppbv

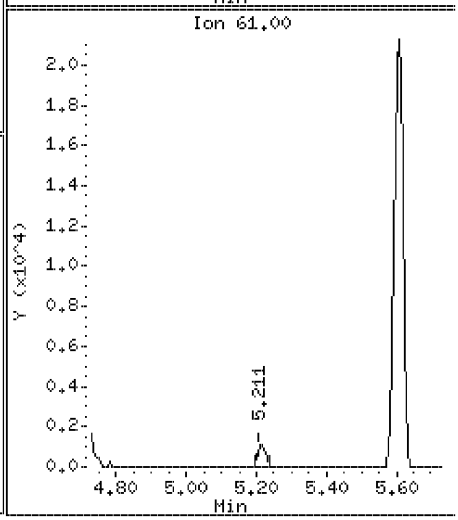


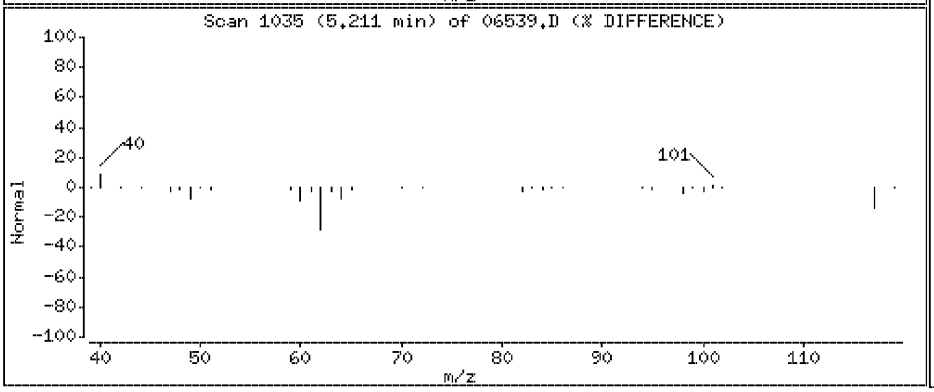












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

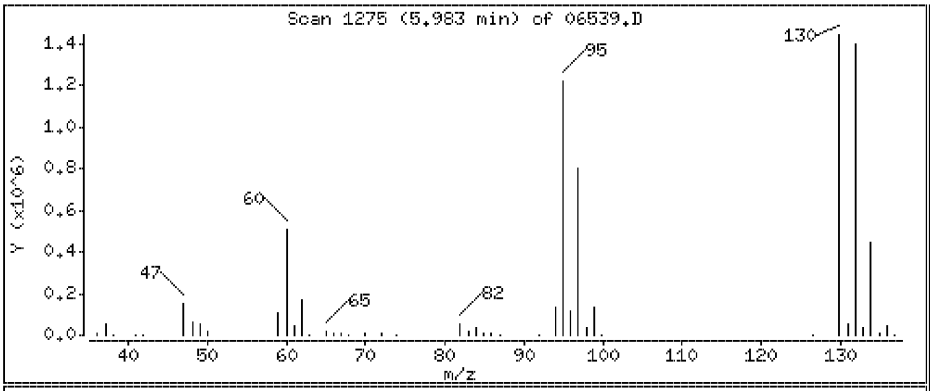
Operator: NCK

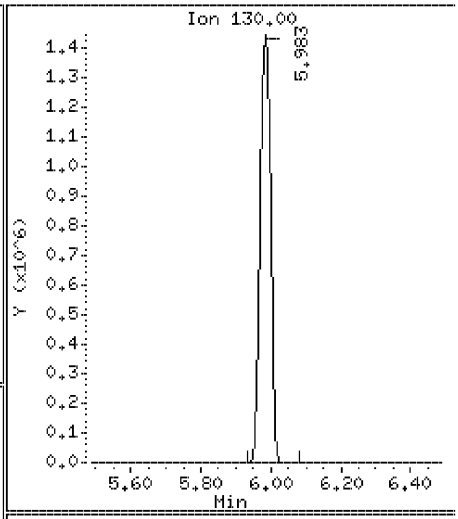
Column phase: J&W DB-5

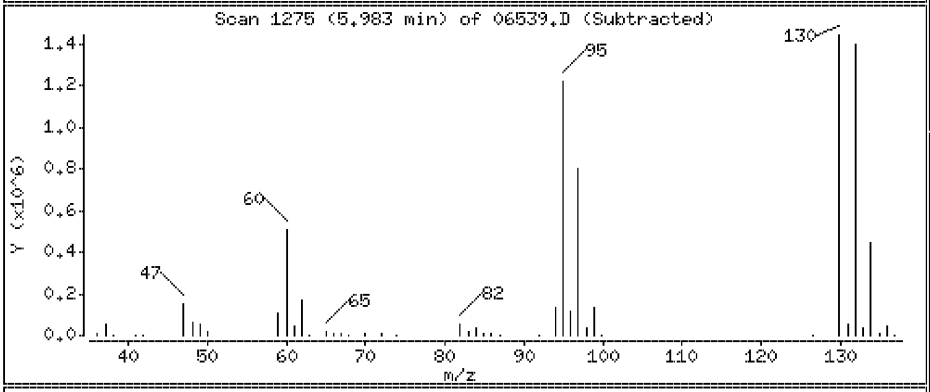
Column diameter: 0.32

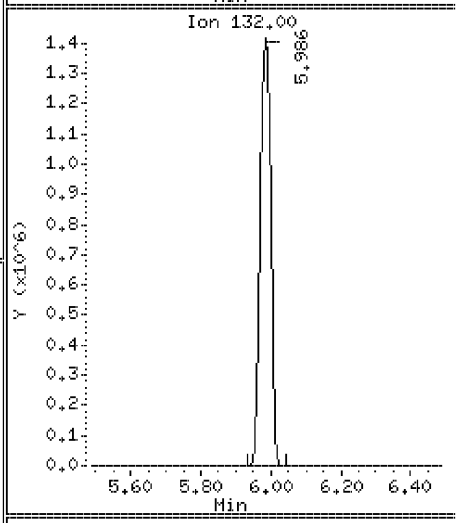
51 Trichloroethene

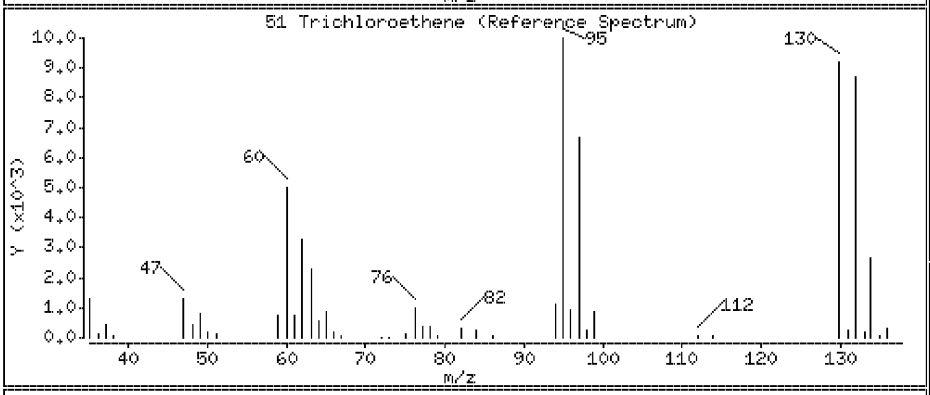
Concentration: 2400 ppbv

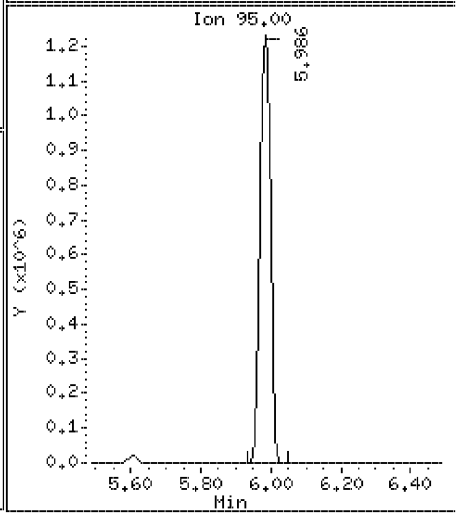


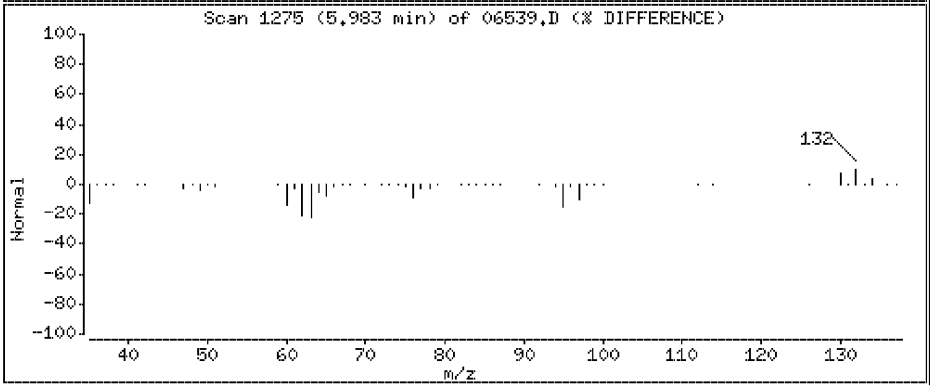












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

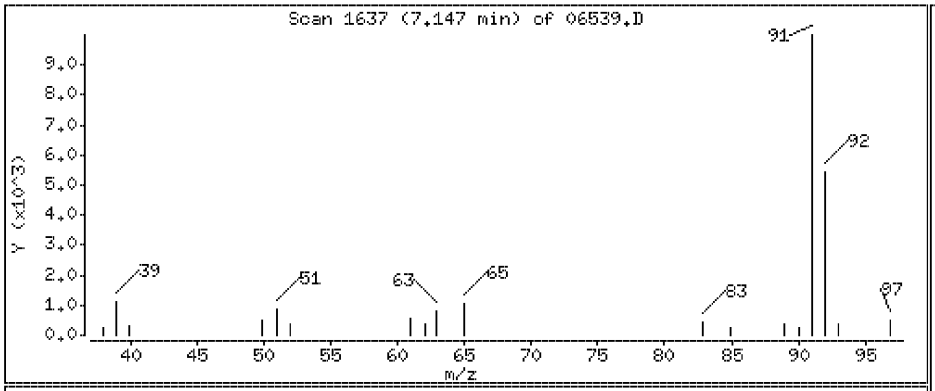
Operator: NCK

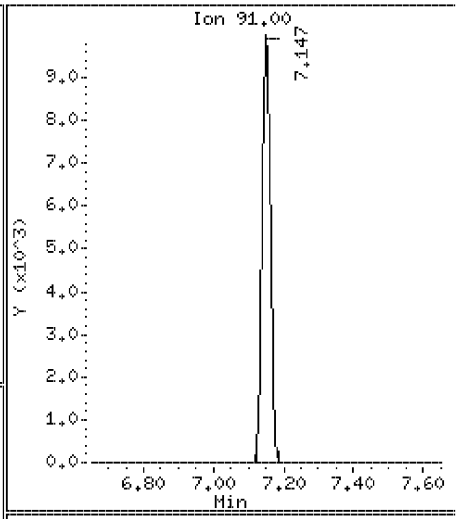
Column phase: J&W DB-5

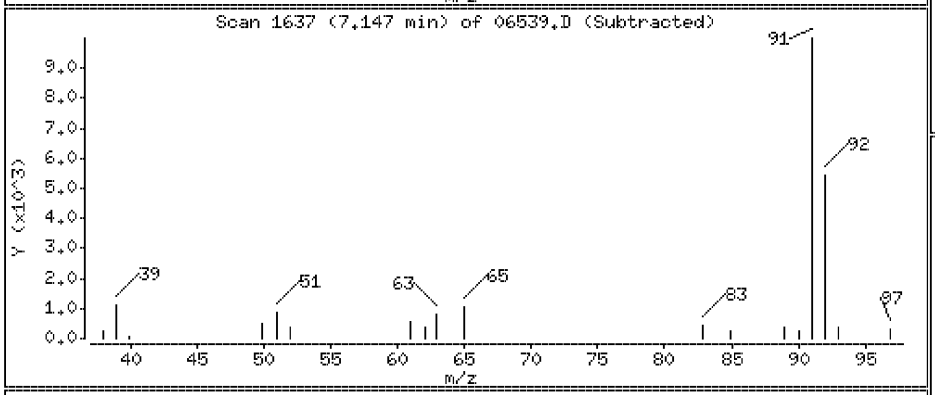
Column diameter: 0.32

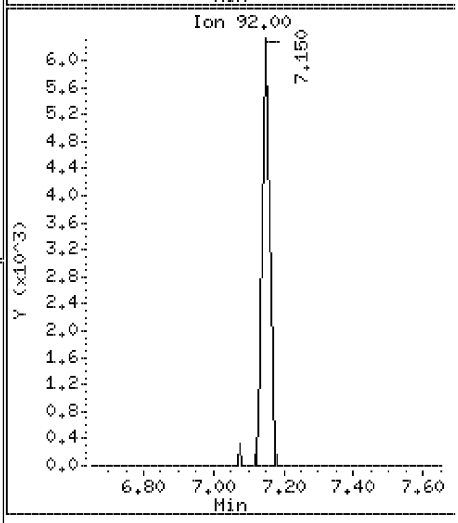
61 Toluene

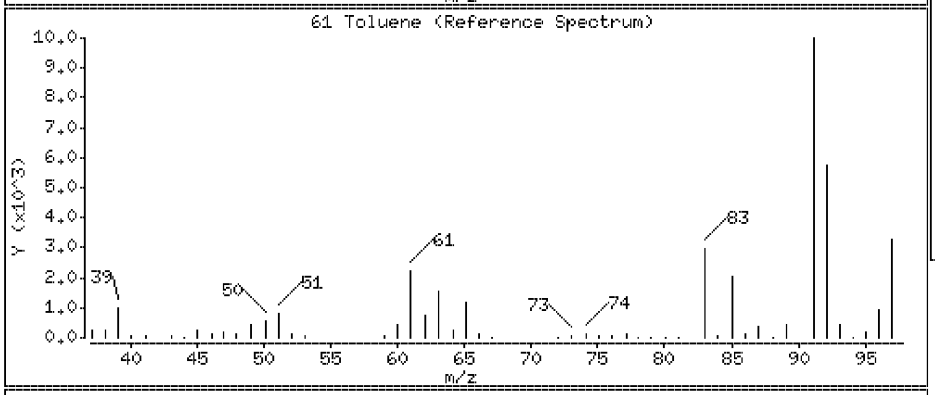
Concentration: 5.48 ppbv

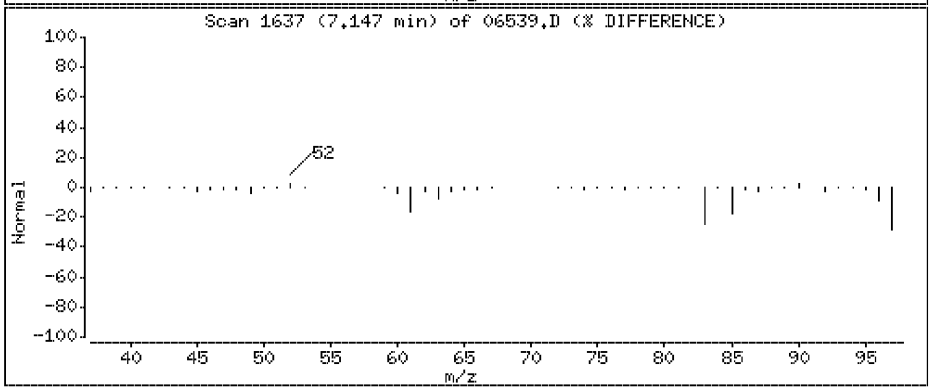












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

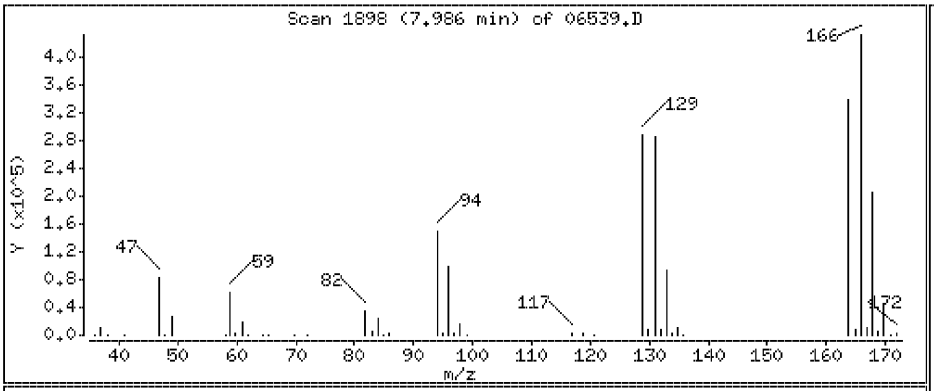
Operator: NCK

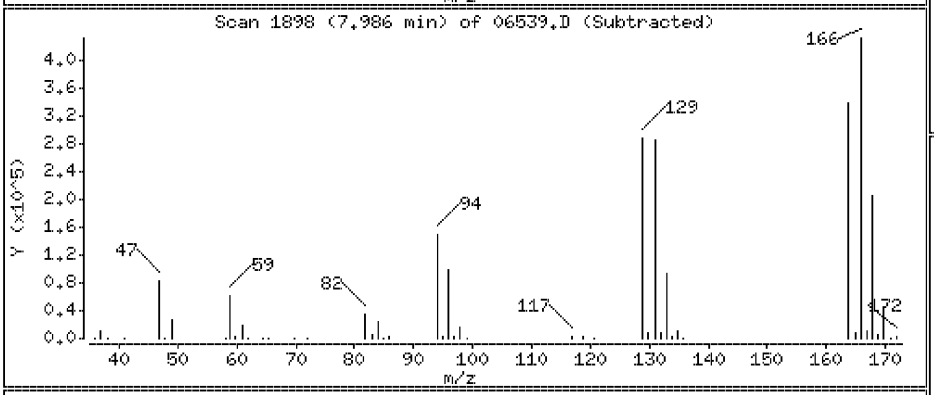
Column phase: J&W DB-5

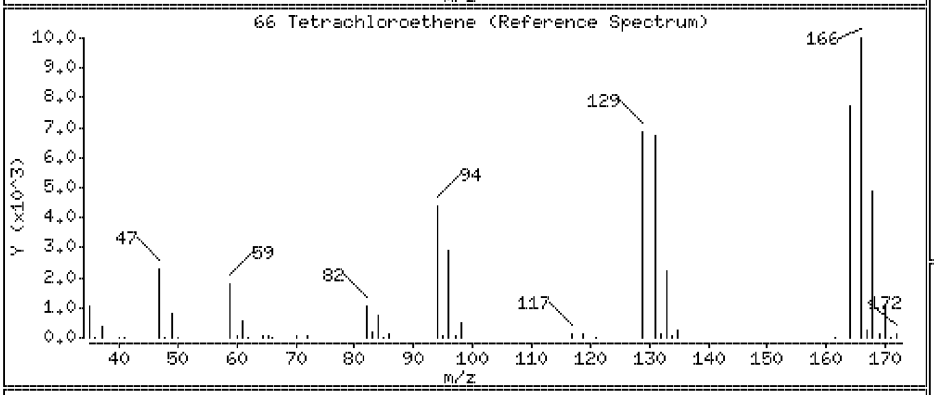
Column diameter: 0.32

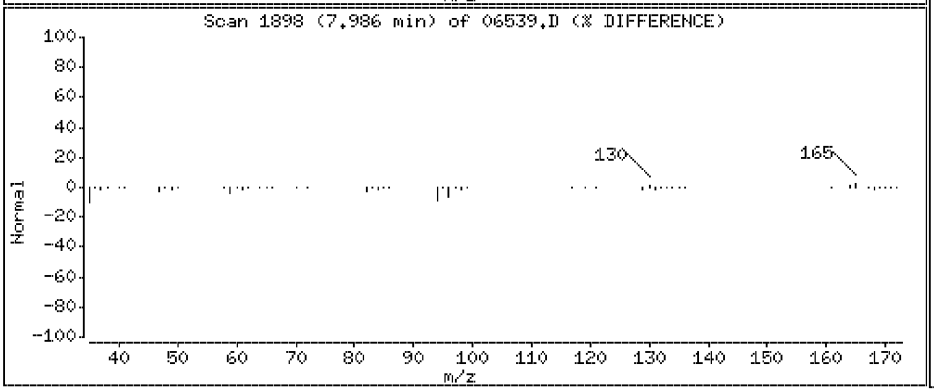
66 Tetrachloroethene

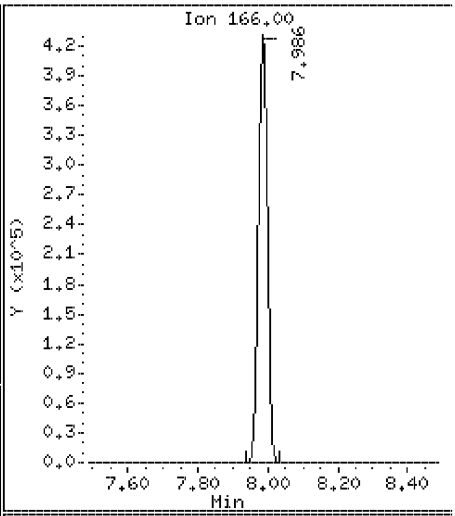
Concentration: 449 ppbv

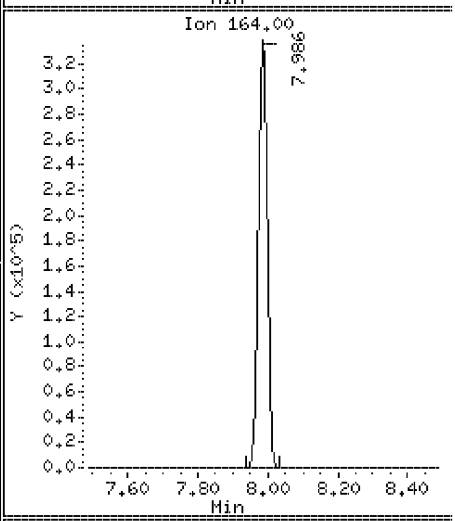


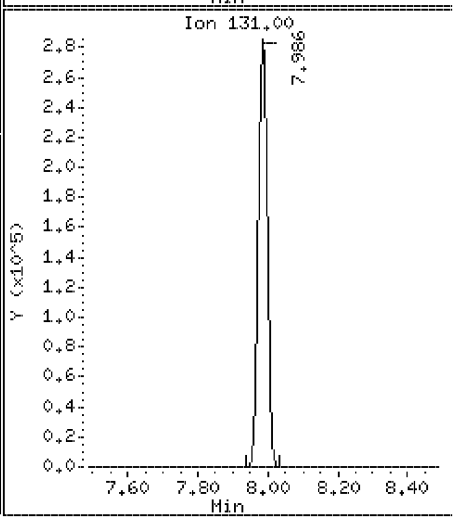












Data File: \\192.168.10.12\chem\10airB.i\030617.b\06539.D

Date : 07-MAR-2017 03:49

Client ID:

Instrument: 10airB.i

Sample Info:

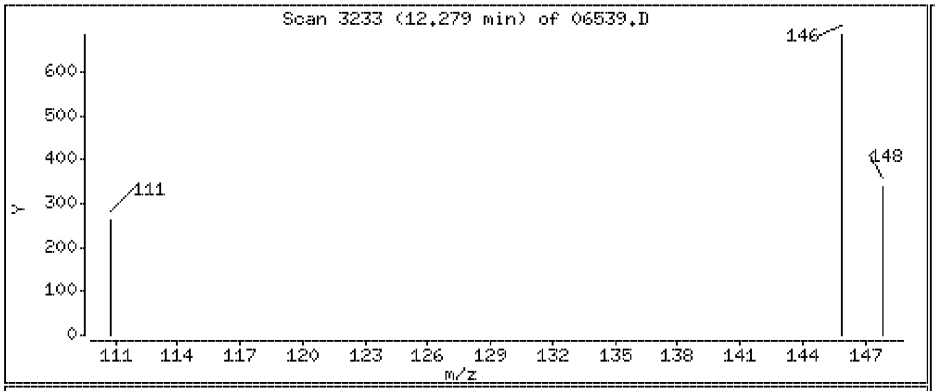
Operator: NCK

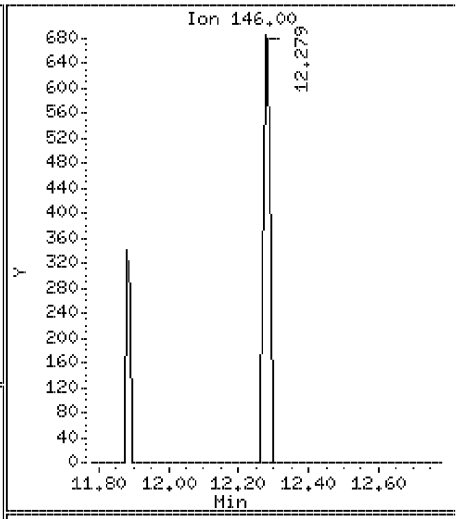
Column phase: J&W DB-5

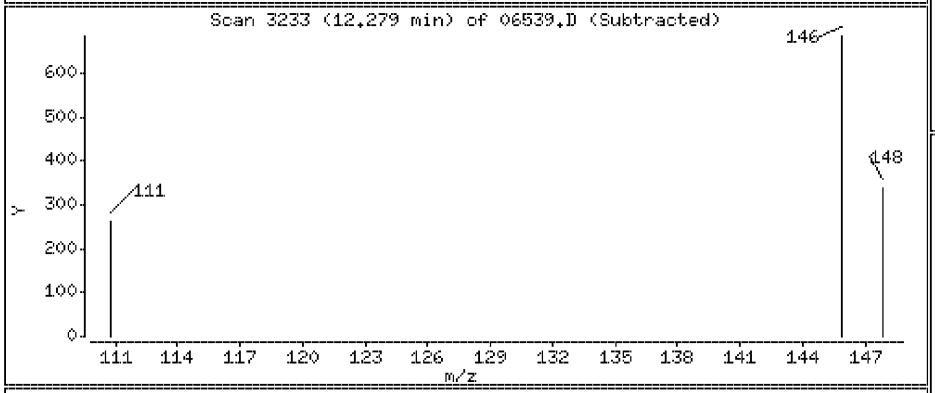
Column diameter: 0.32

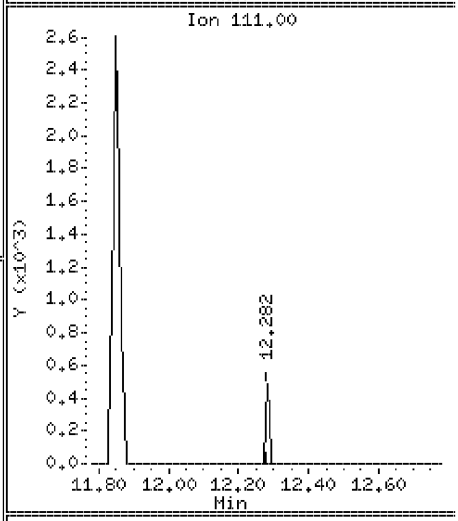
90 1,2-Dichlorobenzene

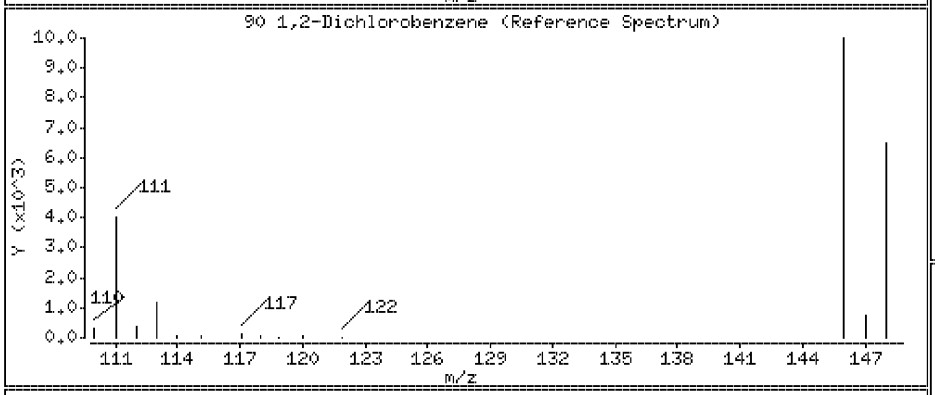
Concentration: 2.16 ppbv

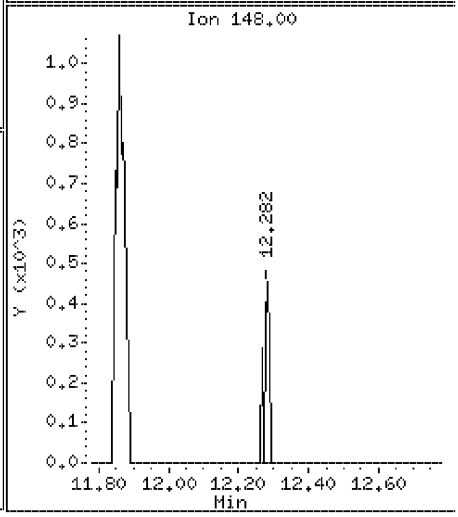


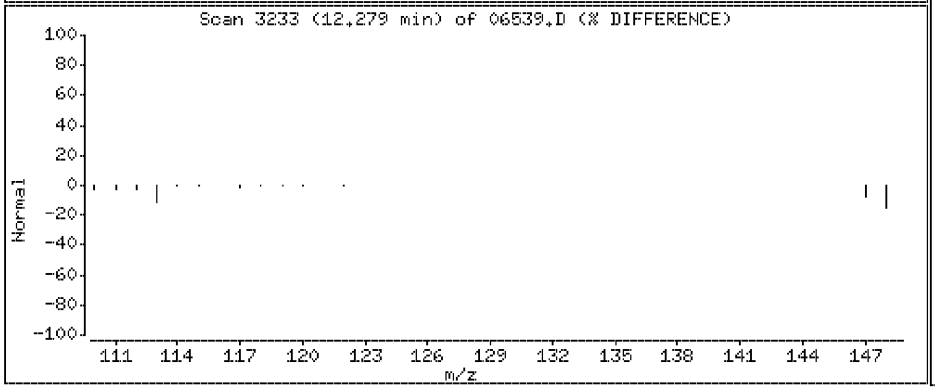












Data File: \\192.168.10.12\chem\10airB.i\030617.b/06539.D
Injection Date: 07-MAR-2017 03:49
Instrument: 10airB.i
Lab Sample ID: 10380193019
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06618.D
Report Date: 08-Mar-2017 11:40

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030717.b\06618.D
Lab Smp Id: 10380193019
Inj Date : 07-MAR-2017 16:38
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27846
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Meth Date : 08-Mar-2017 09:09 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 18
Dil Factor: 2457.60000
Integrator: HP RTE Compound Sublist: TCE.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2457.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$	32 Hexane-d14(S)	66	4.481	4.481	(0.800)	355954	8.38191	8.38
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1334794	10.0000	
	51 Trichloroethene	130	5.973	5.986	(1.067)	143091	6.38029	15700
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1137069	9.51779	9.52
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	854605	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	424817	9.02382	9.02

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06618.D
Report Date: 08-Mar-2017 11:40

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06618.D
Lab Smp Id: 10380193019
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Misc Info: 27846

Calibration Date: 07-MAR-2017
Calibration Time: 08:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

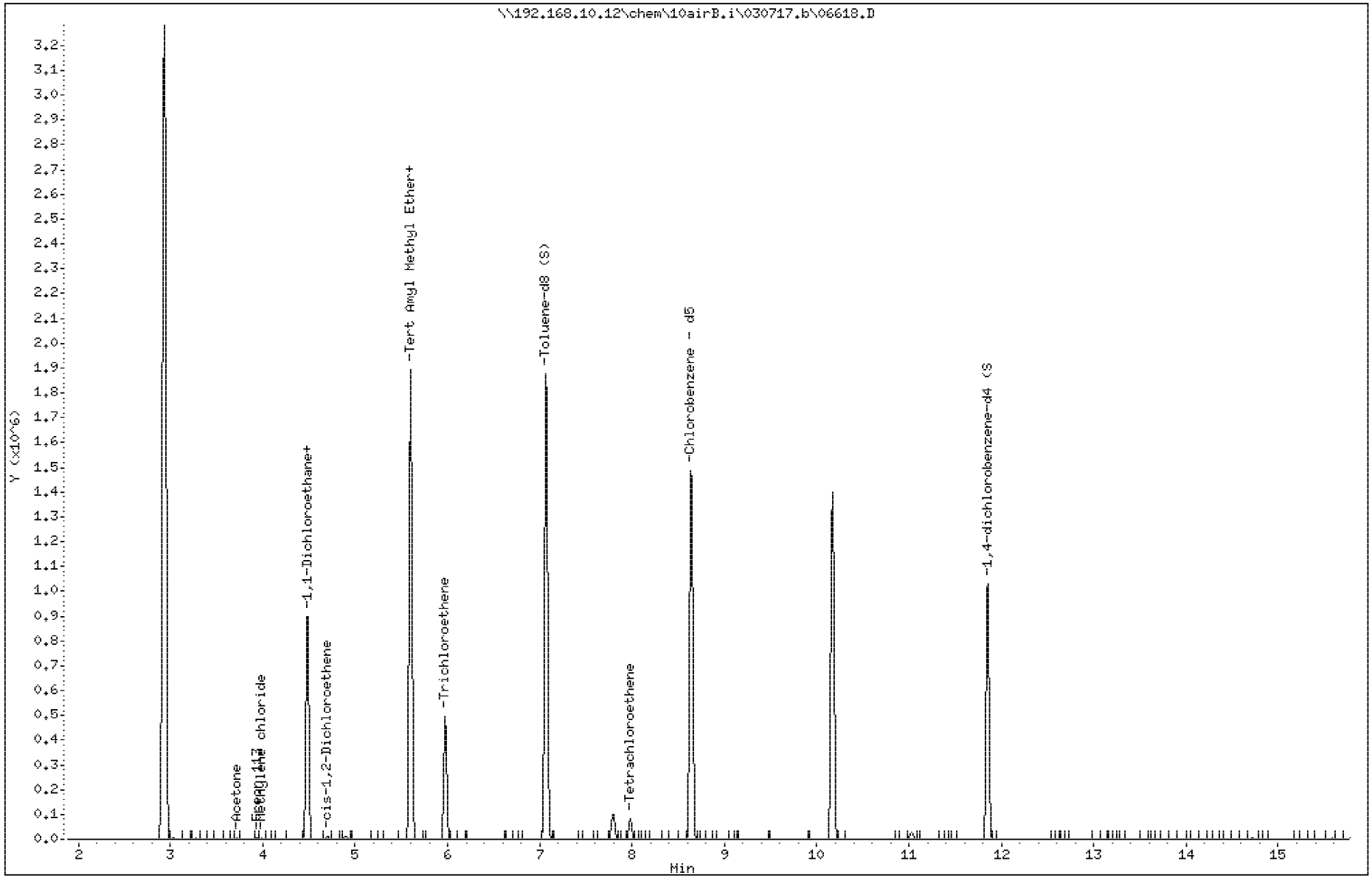
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1334794	-5.61
67 Chlorobenzene - d	951026	570616	1331436	854605	-10.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06618.D
Date : 07-MAR-2017 16:38
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030717.b\06618.D

Date : 07-MAR-2017 16:38

Client ID:

Instrument: 10airB.i

Sample Info:

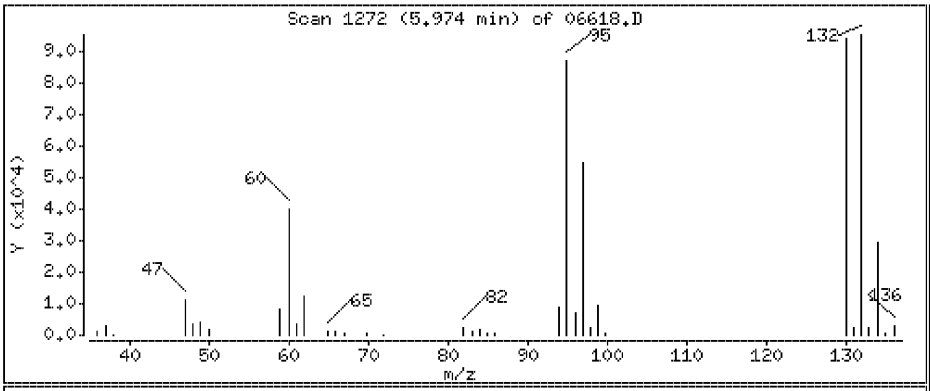
Operator: NCK

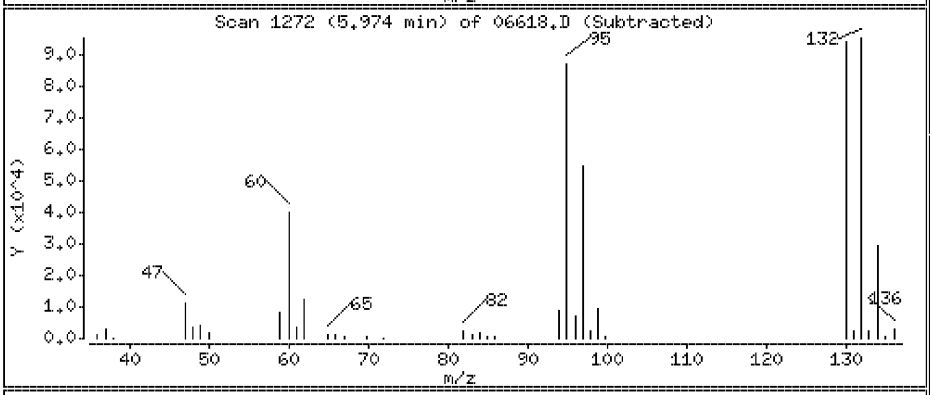
Column phase: J&W DB-5

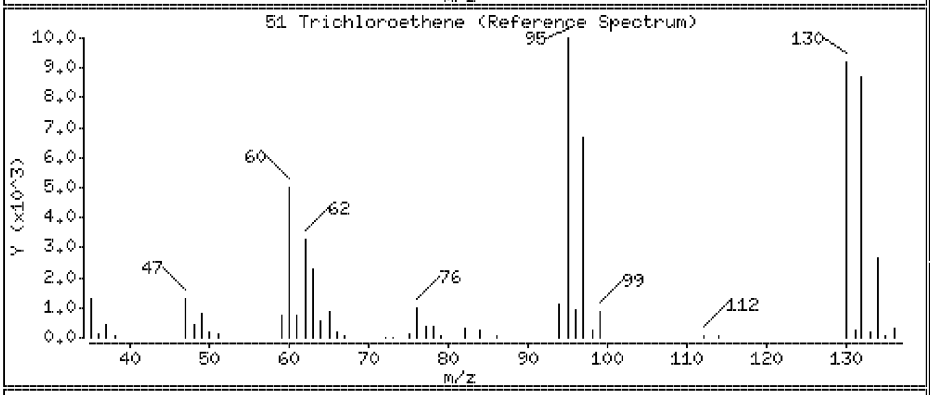
Column diameter: 0.32

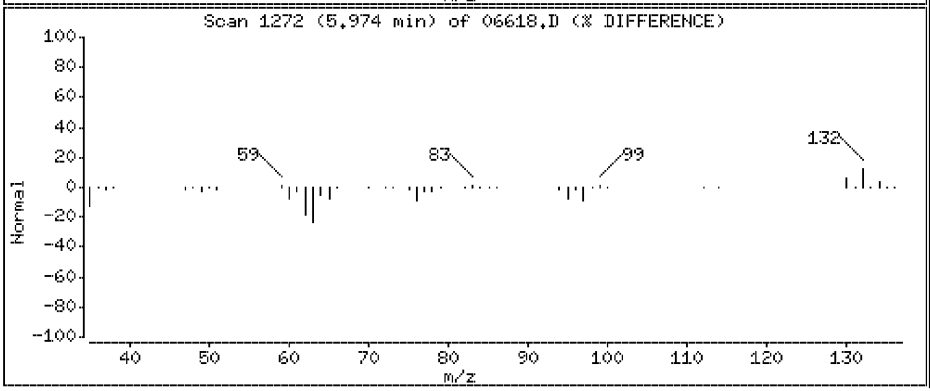
51 Trichloroethene

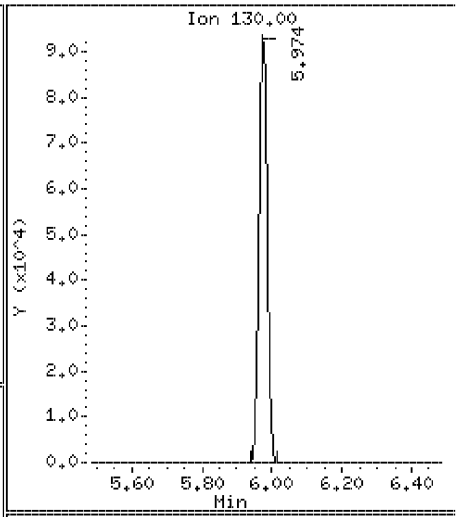
Concentration: 15700 ppbv

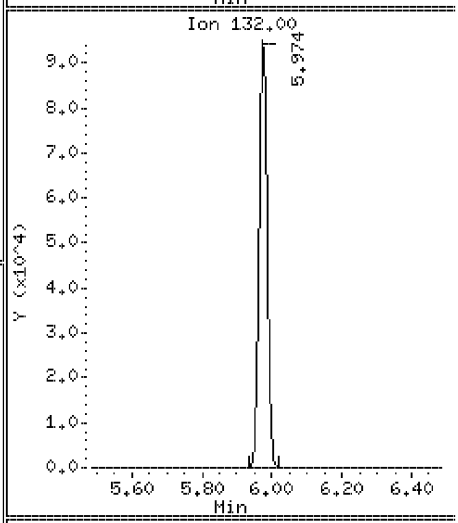


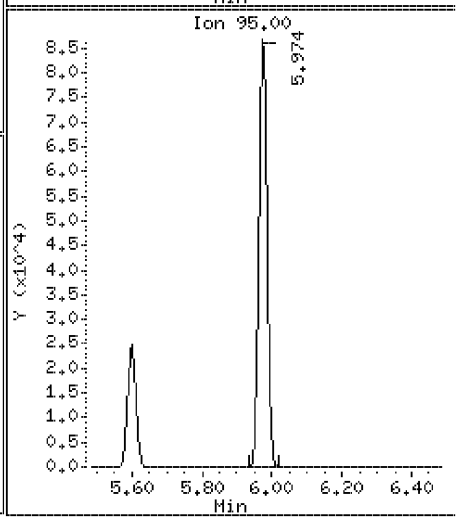












Data File: \\192.168.10.12\chem\10airB.i\030717.b/06618.D
Injection Date: 07-MAR-2017 16:38
Instrument: 10airB.i
Lab Sample ID: 10380193019
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Last Edit : 03-Mar-2017 06:42 mschmitz

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\030217thc.b\06109.D
Level 02: all \\192.168.10.12\chem\10airB.i\030217thc.b\06110.D
Level 03: all \\192.168.10.12\chem\10airB.i\030217thc.b\06111.D
Level 04: all \\192.168.10.12\chem\10airB.i\030217thc.b\06112.D
Level 05: all \\192.168.10.12\chem\10airB.i\030217thc.b\06113.D
Level 06: all \\192.168.10.12\chem\10airB.i\030217thc.b\06114.D
Level 07: all \\192.168.10.12\chem\10airB.i\030217thc.b\06115.D

Compound (all.sb)	11.9500 Level 1	23.9000 Level 2	59.7500 Level 3	119.5000 Level 4	1195.0000 Level 5	2390.0000 Level 6	3585.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
S 5 THC as Gas	16089192	17119064	20636209	27096955	123073161	224553871						
	306343116							QUAD	14810905	97768	-4.53707	0.99989

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Last Edit : 03-Mar-2017 06:42 mschmitz

Curve	Formula	Units
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\030217thc.b\06109.D
Lab Smp Id: cal1
Inj Date : 02-MAR-2017 11:19
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Meth Date : 03-Mar-2017 06:41 mschmitz Quant Type: ESTD
Cal Date : 02-MAR-2017 11:19 Cal File: 06109.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			16089192	11.9500	11.95(a)

QC Flag Legend

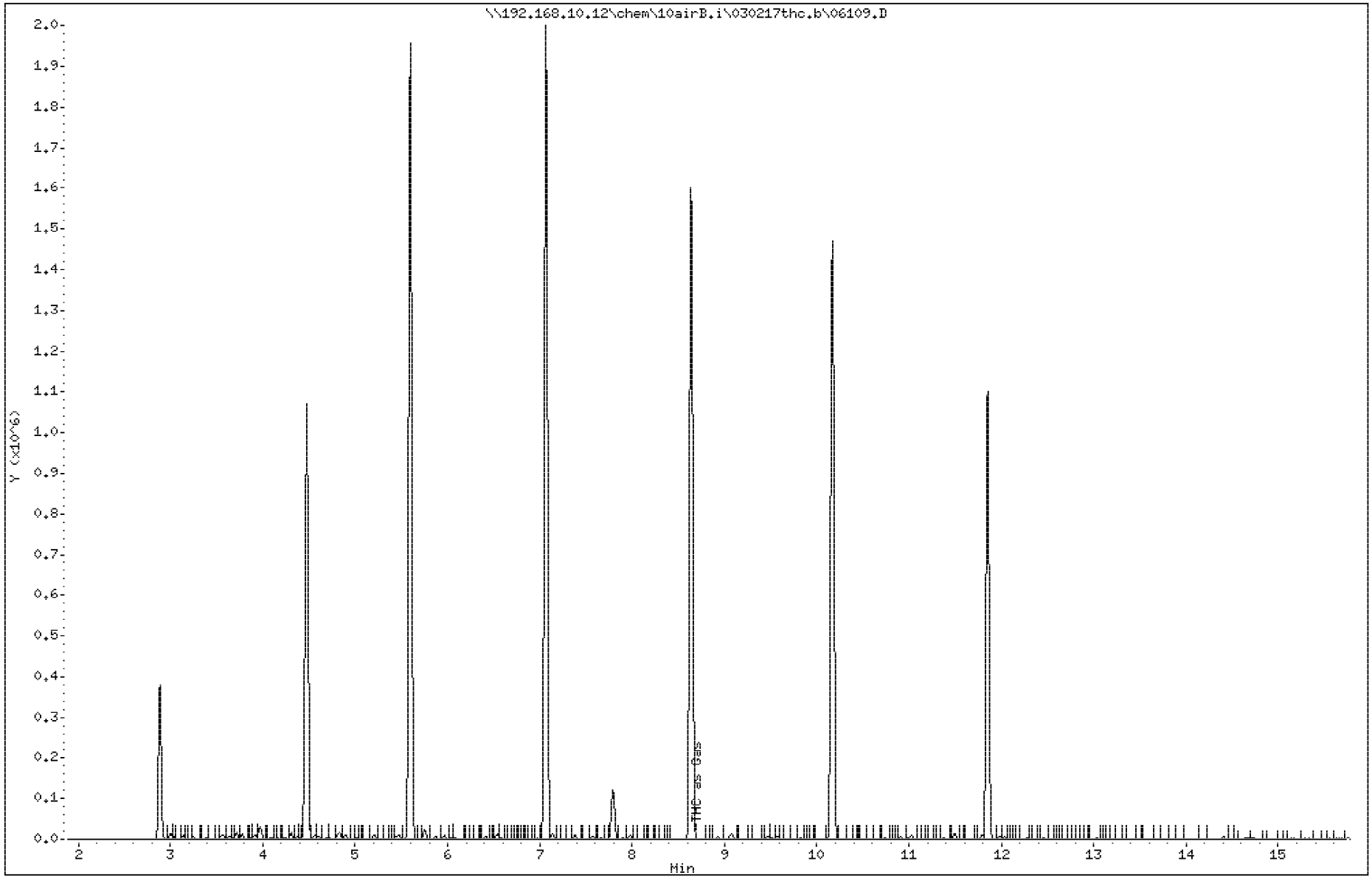
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\192.168.10.12\chem\10airB.i\030217thc.b\06109.D
Date : 02-MAR-2017 11:19
Client ID:
Sample Info:

Column phase: DB-624

Instrument: 10airB.i

Operator: MLS
Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\030217thc.b\06110.D
Lab Smp Id: cal2
Inj Date : 02-MAR-2017 11:46
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Meth Date : 03-Mar-2017 06:41 mschmitz Quant Type: ESTD
Cal Date : 02-MAR-2017 11:46 Cal File: 06110.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			17119064	23.9000	23.90(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\192.168.10.12\chem\10airB.i\030217thc.b\06110.D

Date : 02-MAR-2017 11:46

Client ID:

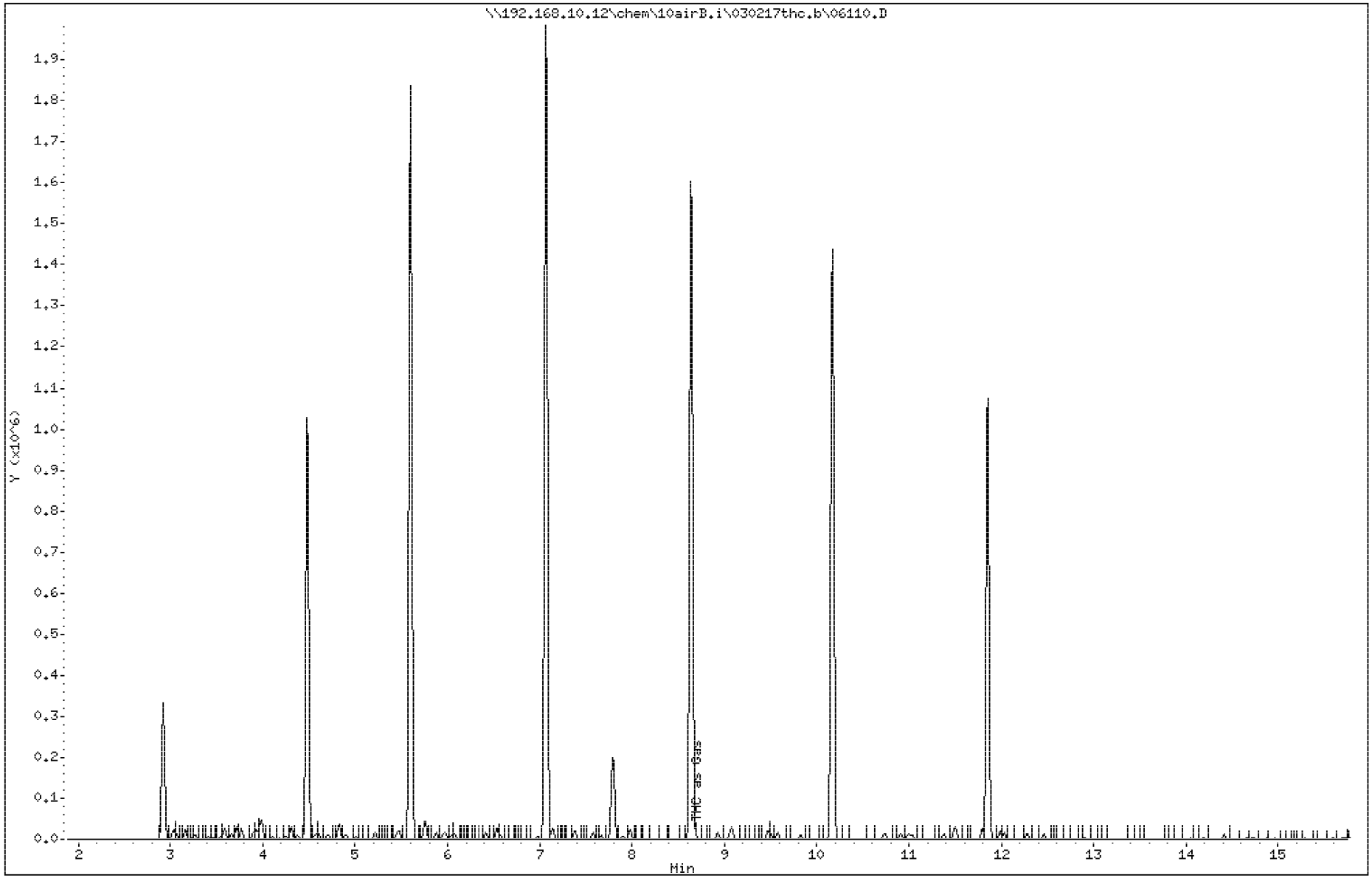
Sample Info:

Column phase: DB-624

Instrument: 10airB.i

Operator: MLS

Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\030217thc.b\06111.D
Lab Smp Id: cal3
Inj Date : 02-MAR-2017 12:14
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Meth Date : 03-Mar-2017 06:42 mschmitz Quant Type: ESTD
Cal Date : 02-MAR-2017 12:14 Cal File: 06111.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			20636209	59.7500	59.92

Data File: \\192.168.10.12\chem\10airB.i\030217thc.b\06111.D

Date : 02-MAR-2017 12:14

Client ID:

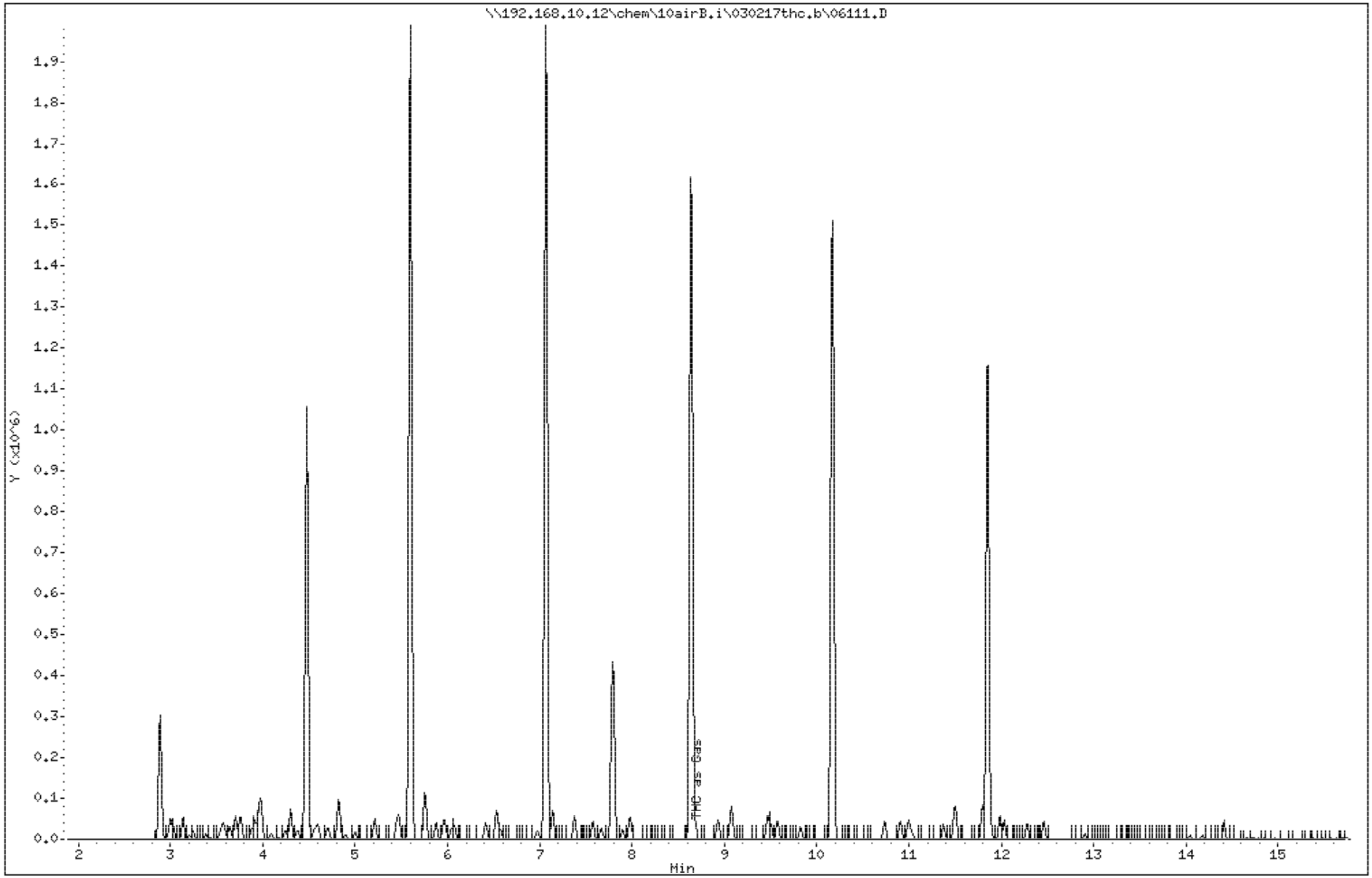
Instrument: 10airB.i

Sample Info:

Operator: MLS

Column phase: DB-624

Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\030217thc.b\06112.D
Lab Smp Id: cal4
Inj Date : 02-MAR-2017 12:43
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Meth Date : 03-Mar-2017 06:42 mschmitz Quant Type: ESTD
Cal Date : 02-MAR-2017 12:43 Cal File: 06112.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			27096955	119.500	120.5

Data File: \\192.168.10.12\chem\10airB.i\030217thc.b\06112.D

Date : 02-MAR-2017 12:43

Client ID:

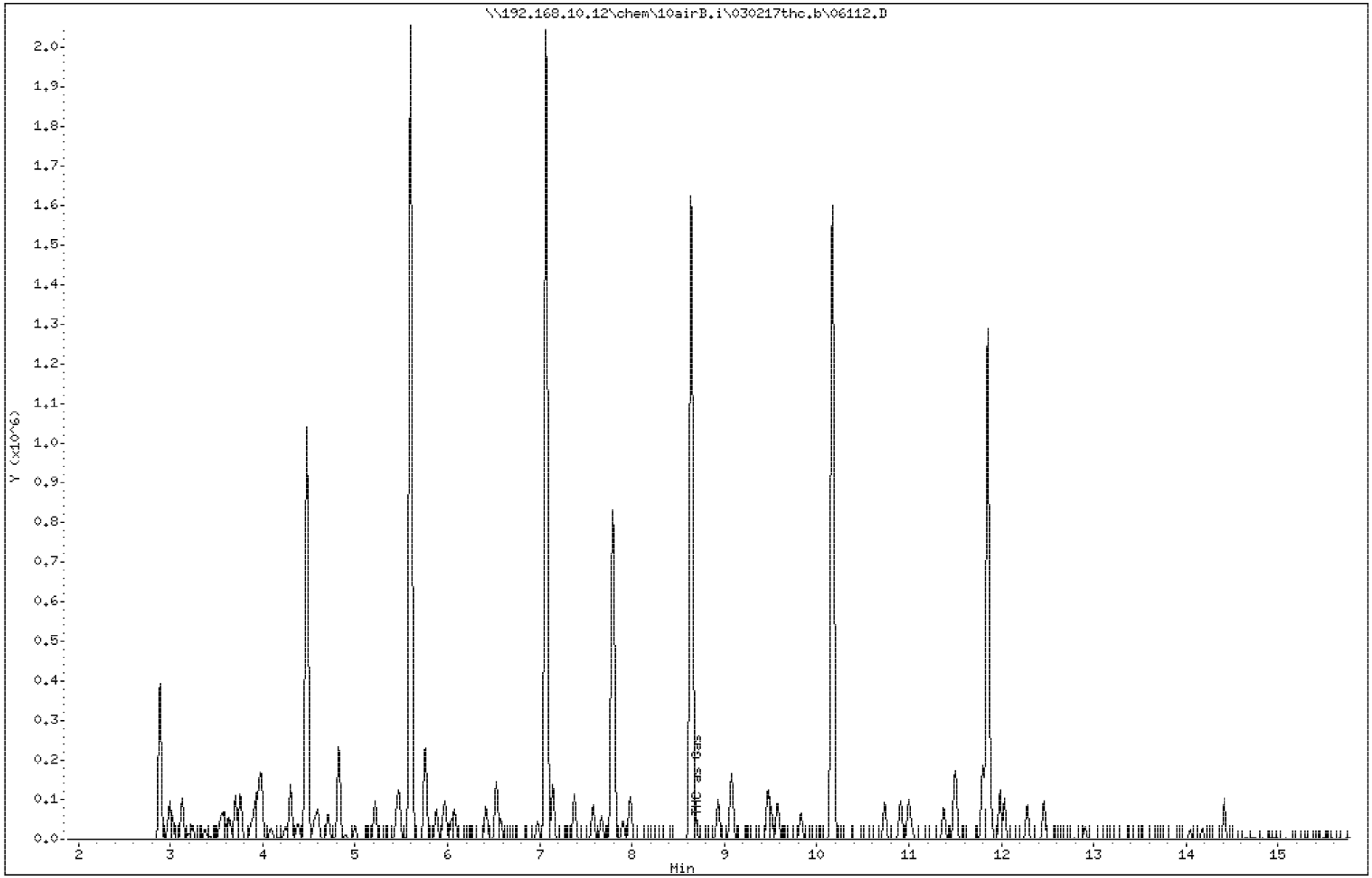
Instrument: 10airB.i

Sample Info:

Operator: MLS

Column phase: DB-624

Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\030217thc.b\06113.D
Lab Smp Id: cal5
Inj Date : 02-MAR-2017 13:10
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Meth Date : 03-Mar-2017 06:42 mschmitz Quant Type: ESTD
Cal Date : 02-MAR-2017 13:10 Cal File: 06113.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			123073161	1195.00	1194

Data File: \\192.168.10.12\chem\10airB.i\030217thc.b\06113.D

Date : 02-MAR-2017 13:10

Client ID:

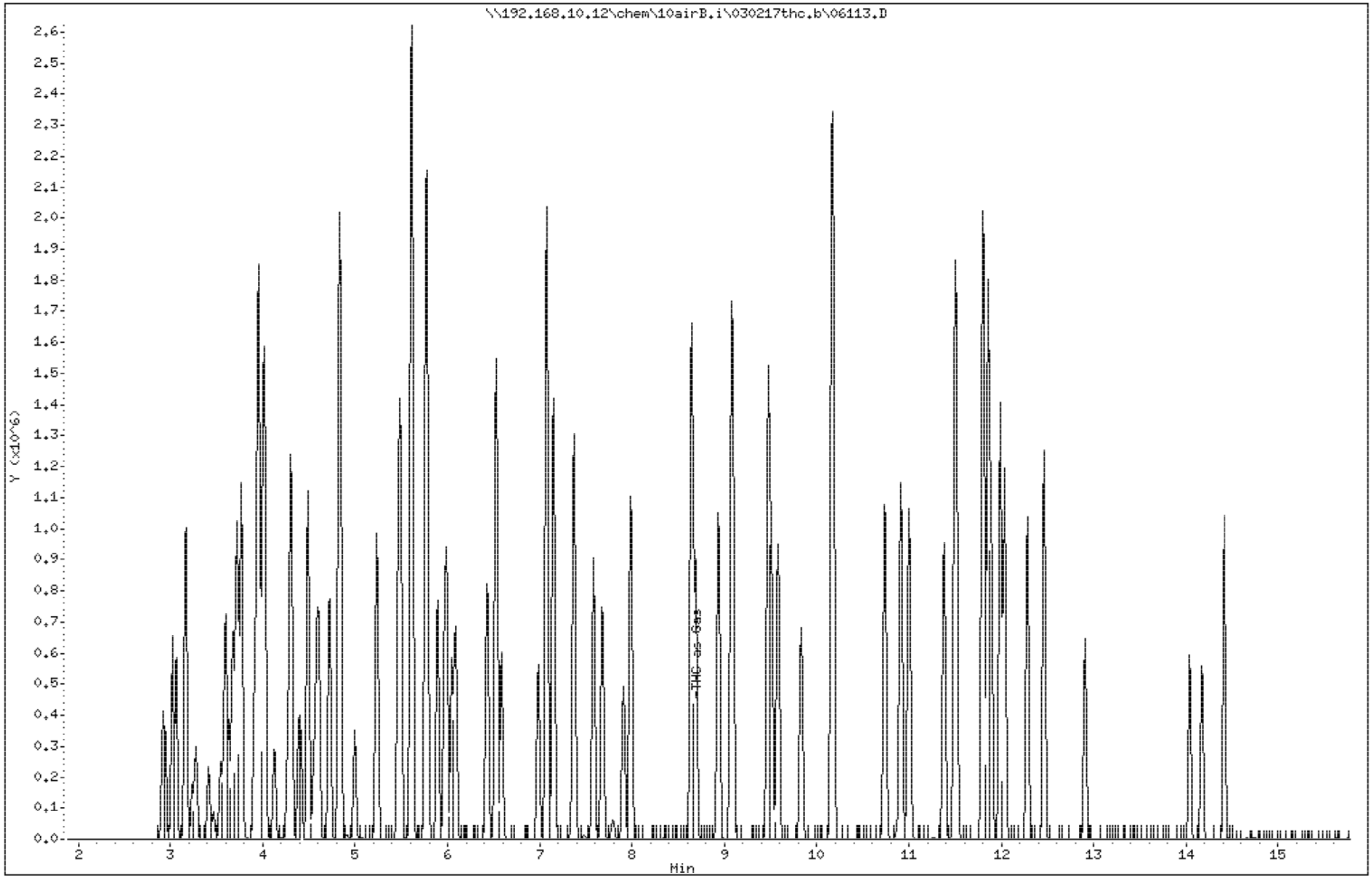
Sample Info:

Column phase: DB-624

Instrument: 10airB.i

Operator: MLS

Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\030217thc.b\06114.D
Lab Smp Id: cal6
Inj Date : 02-MAR-2017 13:39
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Meth Date : 03-Mar-2017 06:42 mschmitz Quant Type: ESTD
Cal Date : 02-MAR-2017 13:39 Cal File: 06114.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			224553871	2390.00	2377

Data File: \\192.168.10.12\chem\10airB.i\030217thc.b\06114.D

Date : 02-MAR-2017 13:39

Client ID:

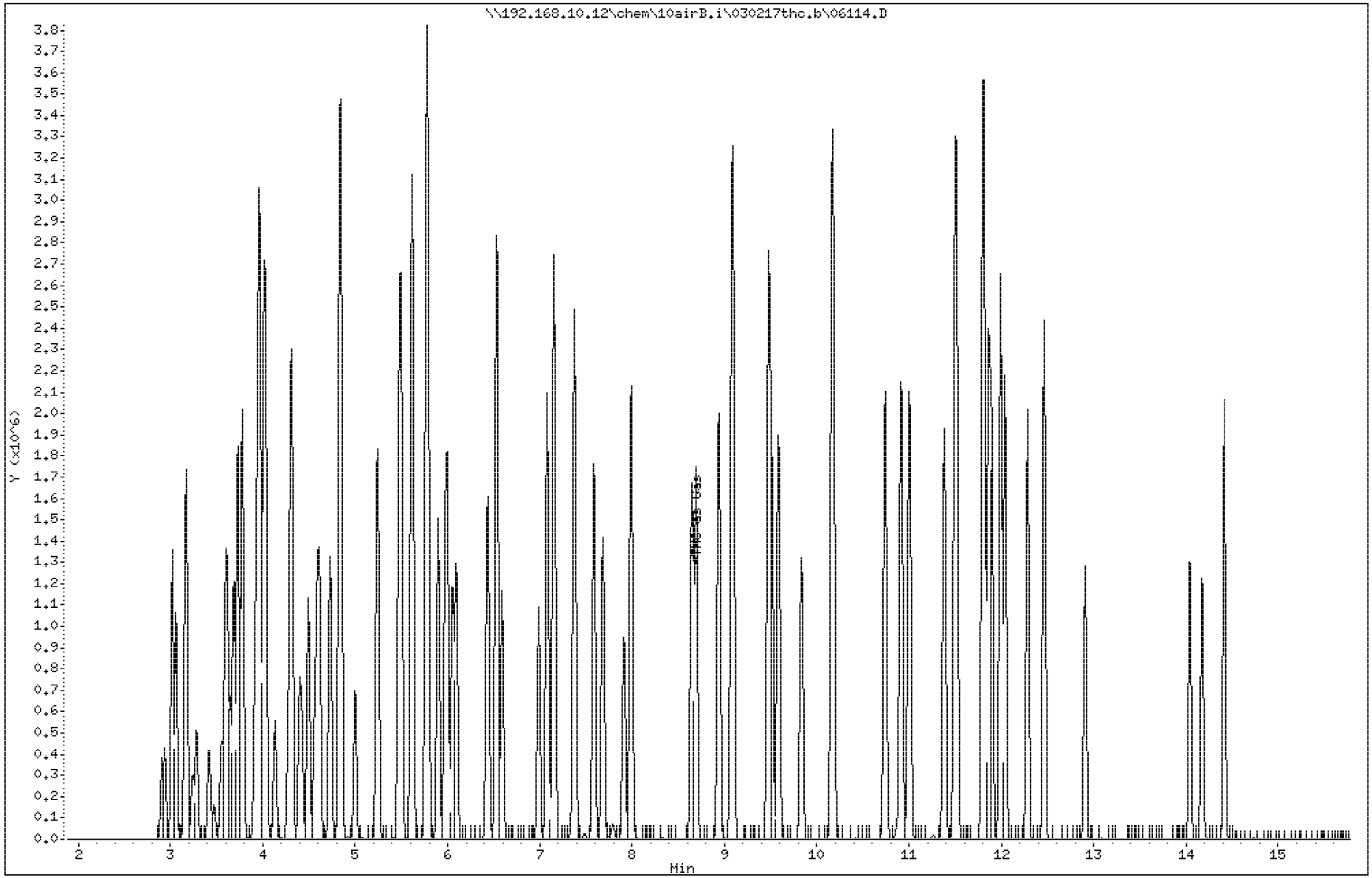
Instrument: 10airB.i

Sample Info:

Operator: MLS

Column phase: DB-624

Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\030217thc.b\06115.D
Lab Smp Id: cal7
Inj Date : 02-MAR-2017 14:08
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Meth Date : 03-Mar-2017 06:42 mschmitz Quant Type: ESTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			306343116	3585.00	3487

Data File: \\192.168.10.12\chem\10airB.i\030217thc.b\06115.D

Date : 02-MAR-2017 14:08

Client ID:

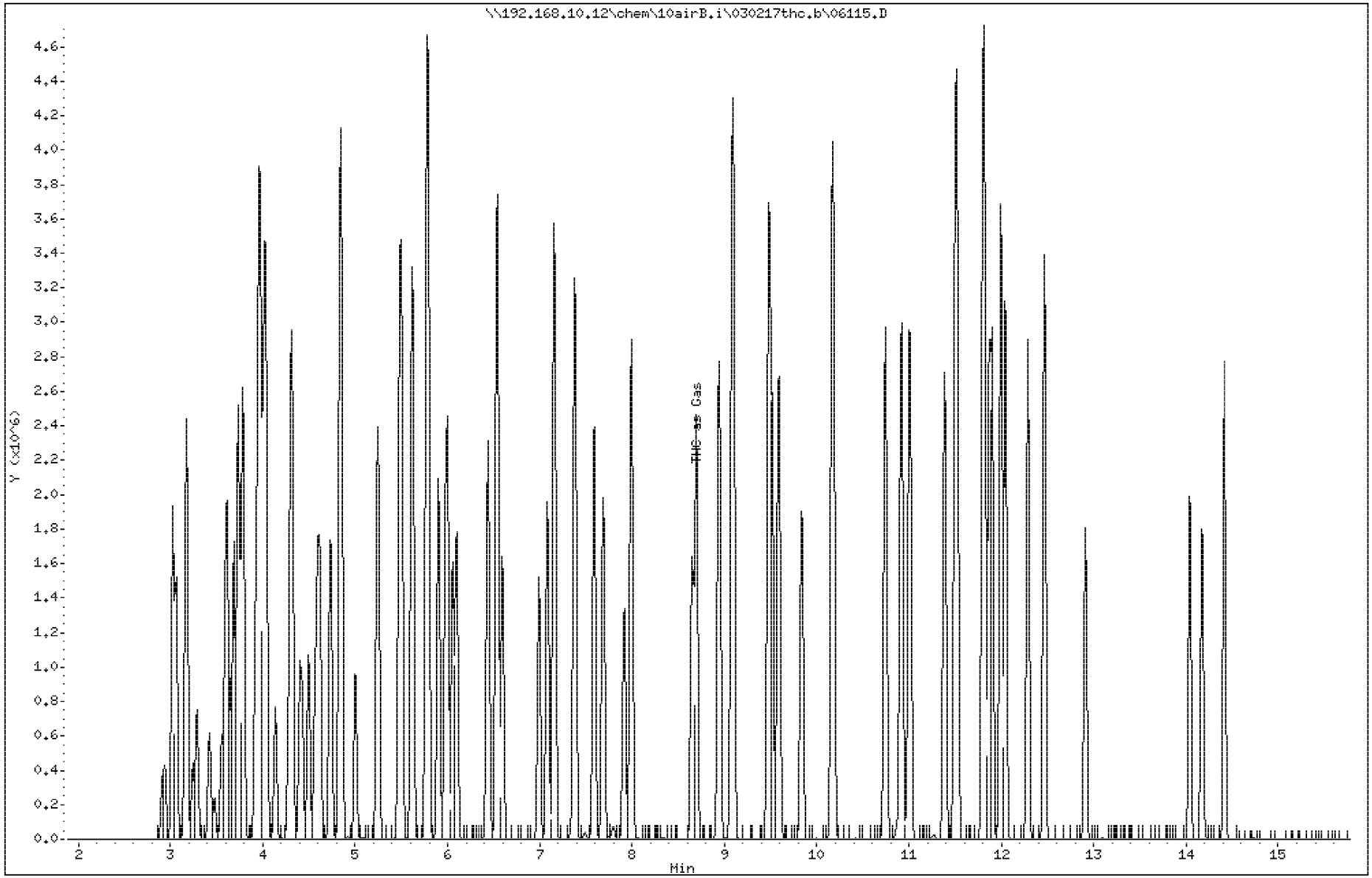
Sample Info:

Instrument: 10airB.i

Operator: MLS

Column phase: DB-624

Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\030217thc.b\06117.D
Lab Smp Id: ICV
Inj Date : 02-MAR-2017 15:02
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Meth Date : 03-Mar-2017 06:42 mschmitz Quant Type: ESTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			100344013	998.932	998.9

Data File: \\192.168.10.12\chem\10airB.i\030217thc.b\06117.D

Date : 02-MAR-2017 15:02

Client ID:

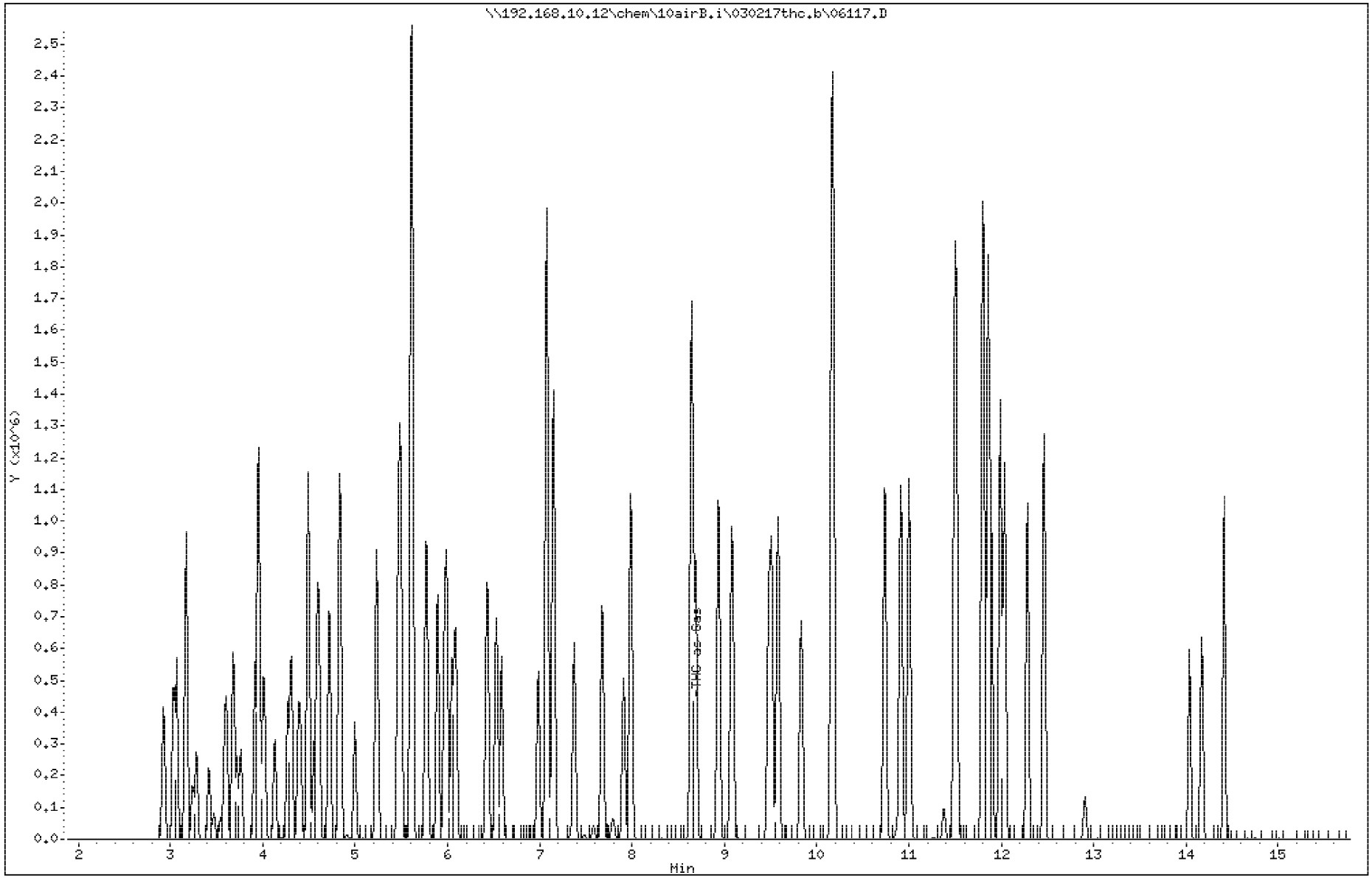
Instrument: 10airB.i

Sample Info:

Operator: MLS

Column phase: DB-624

Column diameter: 0.32



Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Level 02: all \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Level 03: all \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Level 04: all \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Level 05: all \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Level 06: all \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Level 07: all \\192.168.10.12\chem\10airB.i\030217.b\06115.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	1604	3252	3232	5096	104607	+++++	+++++	LINR	-0.00090	0.07460		0.99641
2 1,1-Difluoroethane	0.04907	0.06383	0.05871	0.05580	0.06051	0.05847	0.06399	AVRG		0.05863		8.77337
3 Chlorodifluoromethane	246	740	2020	3964	41204	80199	+++++	LINR	0.00012	0.02798		0.99946
4 Propylene	+++++	5938	12525	24954	98681	197124	287080	LINR	0.00470	0.06927		0.99648

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	5463 +++++	9737	20944	41132	413909	810812	LINR	0.00223	0.28189		0.99963
6 Chloromethane	0.11898	0.12708	0.10813	0.10743	0.11466	0.11047					
	0.11752						AVRG		0.11490		6.08607
7 Dichlorotetrafluoroethane	0.28412	0.30889	0.27070	0.26600	0.27057	0.26389					
	0.27923						AVRG		0.27763		5.58743
8 Vinyl chloride	0.09509	0.10099	0.09950	0.09199	0.10191	0.09874					
	0.10655						AVRG		0.09925		4.75711
9 1,3-Butadiene	0.05391	0.07556	0.07312	0.07192	0.07709	0.07383					
	0.08059						AVRG		0.07229		11.89494
10 Bromomethane	0.08947	0.09822	0.08330	0.09096	0.09309	0.09088					
	0.09682						AVRG		0.09182		5.39696
11 Chloroethane	0.03819	0.05297	0.04520	0.04372	0.04546	0.04563					
	0.04831						AVRG		0.04564		9.80664

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.03522	0.04042	0.03424	0.03385	0.03683	0.03737						
	0.03928							AVRG		0.03674		6.78934
13 Vinyl Bromide	0.08975	0.10765	0.08918	0.09053	0.09716	0.09296						
	0.09853							AVRG		0.09511		6.95676
14 Isopentane	2027	3504	8126	19900	145015	281297						
	397743							LINR	0.00137	0.09936		0.99946
15 Freon 123	3166	6319	15648	16103	129273	313230						
	415076							LINR	0.00086	0.10477		0.99707
16 Trichlorofluoromethane	0.26982	0.32357	0.26730	0.26491	0.26724	0.25660						
	0.26965							AVRG		0.27416		8.11471
17 Acrolein	775	1831	4758	9510	138213	268448						
	385253							QUAD	-0.00070	0.03680	0.00028	0.99942
18 Acetone	0.18064	0.18872	0.15744	0.15292	0.14823	0.14001						
	0.14269							AVRG		0.15867		11.88329

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
19 Isopropyl Alcohol	0.15763	0.18004	0.16031	0.15685	0.16644	0.15379					
	0.15766						AVRG		0.16182		5.52630
20 1,1-Dichloroethene	0.15042	0.18079	0.15074	0.15557	0.16140	0.15494					
	0.16226						AVRG		0.15945		6.57851
21 Acrylonitrile	0.06401	0.07958	0.07178	0.06963	0.07949	0.07360					
	0.07512						AVRG		0.07332		7.53853
22 Freon 113	0.20290	0.23676	0.21541	0.21019	0.20544	0.18768					
	0.19083						AVRG		0.20703		7.93831
23 Methyl Acetate	0.24600	0.28365	0.24125	0.23673	0.24529	0.22152					
	0.21654						AVRG		0.24157		9.03208
24 Tert Butyl Alcohol (TBA)	0.20789	0.23454	0.21267	0.20927	0.21143	0.19109					
	0.18922						AVRG		0.20802		7.28573
25 Methylene chloride	0.12486	0.12863	0.11364	0.10974	0.10908	0.09990					
	0.09808						AVRG		0.11199		10.29977

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
26 Allyl Chloride	998	2156	5091	11220	140726	270021					
	360233						QUAD	-0.00091	0.04080	-0.00057	0.99986
27 Carbon Disulfide	0.17986	0.19150	0.20428	0.20601	0.23438	0.22813					
	0.23219						AVRG		0.21091		10.07488
28 trans-1,2-dichloroethene	0.07503	0.08339	0.09494	0.09061	0.09728	0.09169					
	0.09329						AVRG		0.08946		8.62620
29 Methyl Tert Butyl Ether	0.25867	0.26679	0.26248	0.25662	0.25690	0.24424					
	0.23949						AVRG		0.25503		3.82490
30 Vinyl Acetate	+++++	4581	11738	24341	385061	772513					
	1072670						QUAD	-0.00502	0.27169	0.00039	0.99985
31 1,1-Dichloroethane	0.16713	0.17331	0.17791	0.16887	0.17978	0.17421					
	0.17860						AVRG		0.17426		2.80642
33 Methyl Ethyl Ketone	413	1030	3113	6401	65846	136332					
	188259						LINR	-0.00035	0.04762		0.99995

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.15219	0.17180	0.15757	0.15809	0.16476	0.15753					
	0.15431						AVRG		0.15946		4.19713
35 Di-isopropyl Ether	0.29073	0.32953	0.30665	0.31510	0.31267	0.30686					
	0.30329						AVRG		0.30926		3.84474
36 Ethyl Acetate	0.18718	0.20821	0.20219	0.20145	0.22630	0.20681					
	0.20449						AVRG		0.20523		5.64392
37 cis-1,2-Dichloroethene	0.08790	0.09791	0.09585	0.10208	0.11359	0.10201					
	0.10033						AVRG		0.09995		7.76168
38 Ethyl Tert-Butyl Ether	0.33357	0.32421	0.30640	0.35487	0.34762	0.31600					
	0.28396						AVRG		0.32381		7.54289
39 Chloroform	0.19920	0.19789	0.20212	0.22254	0.22603	0.20669					
	0.19573						AVRG		0.20717		5.90539
40 Tetrahydrofuran	0.09352	0.11602	0.11217	0.11030	0.11359	0.11356					
	0.11599						AVRG		0.11074		7.09391

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.22737	0.25316	0.24262	0.24336	0.25641	0.24012					
	0.24303						AVRG		0.24372		3.86416
42 1,2-Dichloroethane	0.18128	0.20743	0.18724	0.17899	0.18979	0.17568					
	0.17382						AVRG		0.18489		6.21802
43 Benzene	0.31171	0.32607	0.33236	0.31269	0.33860	0.32105					
	0.31508						AVRG		0.32251		3.19963
44 Carbon tetrachloride	0.20909	0.24599	0.24225	0.23334	0.27264	0.25235					
	0.24937						AVRG		0.24358		7.96219
45 Cyclohexane	0.16443	0.16627	0.16904	0.16158	0.16763	0.15400					
	0.14717						AVRG		0.16145		4.97615
46 Tert Amyl Methyl Ether	18270	20967	35082	56548	445708	890854					
	1221003						LINR	0.00956	0.30539		0.99998
48 2,2,4-Trimethylpentane	0.50958	0.53058	0.50192	0.51218	0.51793	0.47603					
	0.44850						AVRG		0.49953		5.61871

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
49 Heptane	0.16777	0.18321	0.17622	0.17889	0.18730	0.18280						
	0.18526						AVRG		0.18021		3.68106	
50 1,2-Dichloropropane	0.10497	0.12424	0.11629	0.11669	0.12070	0.11726						
	0.11759						AVRG		0.11682		5.08339	
51 Trichloroethene	0.15582	0.17814	0.16982	0.16813	0.17159	0.16617						
	0.16646						AVRG		0.16802		4.01609	
52 Methyl methacrylate	0.09772	0.11462	0.09998	0.10330	0.11687	0.11624						
	0.11625						AVRG		0.10928		7.82967	
53 1,4-Dioxane	+++++	0.07571	0.07103	0.06920	0.07879	0.07867						
	0.07869						AVRG		0.07535		5.65122	<-
54 Bromodichloromethane	0.21158	0.24802	0.22534	0.22917	0.25791	0.24572						
	0.24880						AVRG		0.23808		6.87954	
55 Methylcyclohexane	880	2326	5684	12229	132902	266242						
	381479						QUAD	0.00004	0.08838	0.00263	0.99977	

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
						30.0000 Level 7					
56 Methyl Isobutyl Ketone	0.22195	0.26034	0.23797	0.24491	0.26557	0.24586					
	0.24523						AVRG		0.24597		5.82913
57 cis-1,3-Dichloropropene	1869	4624	11439	23875	285919	572916					
	802416						LINR	-0.00192	0.20261		0.99982
58 trans-1,3-Dichloropropene	1570	3360	9313	20281	268282	540240					
	767727						QUAD	-0.00158	0.18207	0.00413	0.99982
60 1,1,2-Trichloroethane	0.13072	0.14804	0.13627	0.12746	0.13595	0.12970					
	0.13071						AVRG		0.13412		5.17316
61 Toluene	0.38916	0.44540	0.40158	0.39773	0.40896	0.39760					
	0.38675						AVRG		0.40388		4.89194
62 Methyl Butyl Ketone	0.28663	0.29631	0.30585	0.31073	0.36206	0.34067					
	0.30862						AVRG		0.31584		8.34206
63 n-Octane	0.29207	0.33524	0.34580	0.35107	0.38006	0.35999					
	0.33009						AVRG		0.34204		8.05009

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	2474 +++++	5941	14525	31027	385835	768082		LINR	-0.00176	0.39596		0.99963
65 1,2-Dibromoethane	0.29331	0.32167	0.31961	0.32276	0.34926	0.33384		AVRG		0.32276		5.24361
	0.31887											
66 Tetrachloroethene	0.34391	0.39141	0.35716	0.34645	0.34946	0.33288		AVRG		0.34724		7.15405
	0.30942											
68 Chlorobenzene	0.50757	0.49302	0.50324	0.47975	0.51011	0.49597		AVRG		0.49598		2.39875
	0.48219											
69 Ethyl Benzene	0.63105	0.69350	0.75373	0.75767	0.80239	0.76885		AVRG		0.73550		7.67448
	0.74134											
70 m&p-Xylene	0.54709	0.56056	0.58709	0.58750	0.63367	0.58090		AVRG		0.57729		5.32940
	0.54419											
71 n-Nonane	0.23991	0.25232	0.30355	0.32308	0.35571	0.32001		AVRG		0.29775		13.71498
	0.28968											

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
72 Bromoform	1731 / 1008290	3665	10681	23365	367770	705920	QUAD	-0.00691	0.40720	-0.02023	0.99982
73 Styrene	3030 / 1314898	6483	19327	41273	465333	918818	QUAD	-0.00399	0.51302	-0.02071	0.99999
74 o-Xylene	0.54284 / 0.58304	0.55619	0.58404	0.60209	0.63683	0.60612	AVRG		0.58731		5.38409
75 1,1,2,2-Tetrachloroethane	0.28133 / 0.34089	0.29909	0.30949	0.31566	0.36746	0.35145	AVRG		0.32362		9.48066
76 Isopropylbenzene	0.86950 / 0.78729	0.84572	0.82595	0.80512	0.86425	0.82068	AVRG		0.83122		3.64806
77 N-Propylbenzene	5321 / +++++	12256	35990	77311	929423	1826015	LINR	-0.00241	0.94285		0.99939
78 4-Ethyltoluene	4421 / 2322755	10605	30251	69266	815307	1614385	QUAD	-0.00900	0.89638	-0.03311	0.99998

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	4235	9860	28097	61066	689551	1370583					
	+++++						LINR	-0.00130	0.70575		0.99966
80 n-Decane	1450	3858	11603	27313	350331	729038					
	1038909						LINR	-0.00620	0.26167		0.99940
81 Tert-Butyl Benzene	0.56680	0.61270	0.67584	0.68138	0.74872	0.70347					
	0.65929						AVRG		0.66403		8.96869
82 1,2,4-Trimethylbenzene	0.49112	0.54574	0.57970	0.62431	0.68706	0.63694					
	0.59336						AVRG		0.59403		10.76645
83 1,3-Dichlorobenzene	2849	6190	16619	35362	423299	815126					
	+++++						LINR	0.00042	0.42172		0.99883
84 Sec- Butylbenzene	0.69229	0.74745	0.81958	0.87314	0.98355	0.88644					
	0.82157						AVRG		0.83200		11.46062
86 Benzyl Chloride	+++++	3597	9078	22499	427013	897595					
	1343950						QUAD	-0.01363	0.46373	0.00022	0.99991

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
87 1,4-Dichlorobenzene	0.34312	0.35215	0.36805	0.38523	0.44083	0.42325					
	0.41139						AVRG		0.38915		9.54420
88 p-Isopropyltoluene	4750	11000	31230	67948	793111	1535893					
	+++++						LINR	0.00032	0.79402		0.99902
89 1,2,3-Trimethylbenzene	0.49291	0.51053	0.57370	0.59567	0.68477	0.63533					
	0.61245						AVRG		0.58648		11.54196
90 1,2-Dichlorobenzene	2466	5537	14338	32463	395633	776749					
	1131959						QUAD	-0.00389	0.42770	-0.01328	0.99994
91 N-Butylbenzene	2805	7061	20942	47311	612616	1214291					
	1755538						LINR	0.00139	0.60841		0.99917
92 1,2-Dibromo-3-Chloropropane	387	957	3096	7071	154681	319932					
	467876						LINR	-0.00318	0.16248		0.99959
93 1,2,4-Trichlorobenzene	+++++	513	2447	7389	156379	358428					
	553071						QUAD	-0.00633	0.16753	0.00809	0.99974

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	645	1944	7018	19022	369664	797177					
	1218782						LINR	-0.01424	0.41809		0.99958
95 Hexachlorobutadiene	0.13792	0.16150	0.17377	0.18747	0.19308	0.18620					
	0.17473						AVRG		0.17353		10.91245
$ 32 Hexane-d14(S)	0.31889	0.30929	0.31483	0.31375	0.31188	0.32281					
	0.33562						AVRG		0.31815		2.79904
$ 59 Toluene-d8 (S)	0.86049	0.94509	0.86662	0.86999	0.88227	0.89817					
	0.94256						AVRG		0.89503		3.96718
$ 85 1,4-dichlorobenzene-d4 (S)	0.49310	0.47520	0.50594	0.53279	0.61007	0.62504					
	0.61393						AVRG		0.55087		11.57446

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Average %RSD Results.	
Calculated Average %RSD =	6.97496
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Lab Smp Id: cal1
Inj Date : 02-MAR-2017 11:19
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 15:58 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.912	2.912	(0.520)	1604	0.10000	0.273
2	1,1-Difluoroethane	65	2.986	2.986	(0.534)	690	0.10000	0.0837(Q)
3	Chlorodifluoromethane	67	3.012	3.012	(0.538)	246	0.10000	0.0208(aQM)
4	Propylene	41	3.005	3.005	(0.537)	3613	0.10000	(aQ)
5	Dichlorodifluoromethane	85	3.037	3.037	(0.543)	5463	0.10000	0.0585
6	Chloromethane	50	3.137	3.137	(0.561)	1673	0.10000	0.104(M)
7	Dichlorotetrafluoroethane	85	3.137	3.137	(0.561)	3995	0.10000	0.102
8	Vinyl chloride	62	3.205	3.205	(0.573)	1337	0.10000	0.0958(M)
9	1,3-Butadiene	54	3.250	3.250	(0.581)	758	0.10000	0.0746(Q)
10	Bromomethane	94	3.388	3.388	(0.605)	1258	0.10000	0.0974
11	Chloroethane	64	3.439	3.439	(0.615)	537	0.10000	0.0837(QM)
12	Ethanol	45	3.558	3.558	(0.636)	2476	0.50000	0.479
13	Vinyl Bromide	106	3.555	3.555	(0.635)	1262	0.10000	0.0944
14	Isopentane	43	3.558	3.558	(0.636)	2027	0.10000	0.00751(aQ)
15	Freon 123	83	3.578	3.578	(0.639)	3166	0.10000	0.133
16	Trichlorofluoromethane	101	3.642	3.642	(0.651)	3794	0.10000	0.0984
17	Acrolein	56	3.671	3.671	(0.656)	775	0.25000	0.341
18	Acetone	43	3.716	3.716	(0.664)	12700	0.50000	0.569
19	Isopropyl Alcohol	45	3.777	3.777	(0.675)	11082	0.50000	0.487
20	1,1-Dichloroethene	61	3.877	3.877	(0.693)	2115	0.10000	0.0943
21	Acrylonitrile	53	3.906	3.906	(0.698)	2250	0.25000	0.218
22	Freon 113	101	3.918	3.918	(0.700)	2853	0.10000	0.0980
23	Methyl Acetate	43	3.951	3.951	(0.706)	3459	0.10000	0.102

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.970	3.970	(0.709)	7308	0.25000	0.250(Q)
	25 Methylene chloride	49	3.970	3.970	(0.709)	8778	0.50000	0.557(M)
	26 Allyl Chloride	76	3.976	3.976	(0.710)	998	0.25000	0.397(Q)
	27 Carbon Disulfide	76	4.092	4.092	(0.731)	2529	0.10000	0.0853(M)
	28 trans-1,2-dichloroethene	96	4.230	4.230	(0.756)	1055	0.10000	0.0839(Q)
	29 Methyl Tert Butyl Ether	73	4.308	4.308	(0.770)	9093	0.25000	0.254
	30 Vinyl Acetate	43	4.372	4.372	(0.781)	2236	0.10000	0.243(M)
	31 1,1-Dichloroethane	63	4.375	4.375	(0.782)	2350	0.10000	0.0959(M)
$	32 Hexane-d14(S)	66	4.475	4.475	(0.800)	448392	10.0000	10.0
	33 Methyl Ethyl Ketone	72	4.565	4.565	(0.816)	413	0.10000	0.135(QM)
	34 n-Hexane	57	4.571	4.571	(0.817)	2140	0.10000	0.0954(QM)
	35 Di-isopropyl Ether	45	4.597	4.597	(0.821)	4088	0.10000	0.0940
	36 Ethyl Acetate	43	4.722	4.722	(0.844)	2632	0.10000	0.0912(QM)
	37 cis-1,2-Dichloroethene	96	4.697	4.697	(0.839)	1236	0.10000	0.0879(M)
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.863)	11726	0.25000	0.258
	39 Chloroform	83	4.803	4.803	(0.858)	2801	0.10000	0.0962
	40 Tetrahydrofuran	42	5.018	5.018	(0.897)	1315	0.10000	0.0845
	41 1,1,1-Trichloroethane	97	5.208	5.208	(0.930)	3197	0.10000	0.0933
	42 1,2-Dichloroethane	62	5.211	5.211	(0.931)	2549	0.10000	0.0980
	43 Benzene	78	5.446	5.446	(0.973)	4383	0.10000	0.0967
	44 Carbon tetrachloride	117	5.465	5.465	(0.976)	2940	0.10000	0.0858
	45 Cyclohexane	56	5.471	5.471	(0.978)	2312	0.10000	0.102(Q)
	46 Tert Amyl Methyl Ether	73	5.597	5.597	(1.000)	18270	0.10000	0.112(Q)
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1406108	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.754	(1.028)	17913	0.25000	0.255
	49 Heptane	43	5.877	5.877	(1.050)	2359	0.10000	0.0931
	50 1,2-Dichloropropane	63	5.951	5.951	(1.063)	1476	0.10000	0.0899
	51 Trichloroethene	130	5.973	5.973	(1.067)	2191	0.10000	0.0927
	52 Methyl methacrylate	69	6.044	6.044	(1.080)	1374	0.10000	0.0894
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	6.070	6.070	(1.084)	2975	0.10000	0.0889
	55 Methylcyclohexane	98	6.420	6.420	(1.147)	880	0.10000	0.0665(Q)
	56 Methyl Isobutyl Ketone	43	6.542	6.542	(1.169)	7802	0.25000	0.226
	57 cis-1,3-Dichloropropene	75	6.581	6.581	(1.176)	1869	0.10000	0.160
	58 trans-1,3-Dichloropropene	75	6.979	6.979	(1.247)	1570	0.10000	0.148
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	1209940	10.0000	9.61
	60 1,1,2-Trichloroethane	97	7.134	7.134	(1.275)	1838	0.10000	0.0975
	61 Toluene	91	7.147	7.147	(1.277)	5472	0.10000	0.0964
	62 Methyl Butyl Ketone	43	7.388	7.388	(0.855)	6401	0.25000	0.227
	63 n-Octane	43	7.577	7.577	(0.877)	2609	0.10000	0.0854
	64 Dibromochloromethane	129	7.674	7.674	(0.888)	2474	0.10000	0.114
	65 1,2-Dibromoethane	107	7.899	7.899	(0.914)	2620	0.10000	0.0909
	66 Tetrachloroethene	166	7.983	7.983	(0.924)	3072	0.10000	0.0990
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	893268	10.0000	
	68 Chlorobenzene	112	8.684	8.684	(1.005)	4534	0.10000	0.102
	69 Ethyl Benzene	91	8.928	8.928	(1.033)	5637	0.10000	0.0858
	70 m&p-Xylene	91	9.076	9.076	(1.051)	9774	0.20000	0.190
	71 n-Nonane	43	9.462	9.462	(1.095)	2143	0.10000	0.0806
	72 Bromoform	173	9.475	9.475	(1.097)	1731	0.10000	0.217
	73 Styrene	104	9.503	9.503	(1.100)	3030	0.10000	0.144
	74 o-Xylene	91	9.577	9.577	(1.109)	4849	0.10000	0.0924
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.138)	2513	0.10000	0.0869
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	7767	0.10000	0.105(M)
	77 N-Propylbenzene	91	10.741	10.741	(1.243)	5321	0.10000	0.0888(M)

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	4421	0.10000	0.156(M)
79	1,3,5-Trimethylbenzene	105	10.992	10.992	(1.272)	4235	0.10000	0.0855(M)
80	n-Decane	57	11.378	11.378	(2.033)	1450	0.10000	0.276(Q)
81	Tert-Butyl Benzene	119	11.494	11.494	(1.330)	5063	0.10000	0.0854
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	4387	0.10000	0.0827
83	1,3-Dichlorobenzene	146	11.790	11.790	(1.365)	2849	0.10000	0.0656
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	6184	0.10000	0.0832
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.372)	440469	10.0000	8.95
86	Benzyl Chloride	91	11.860	11.860	(1.373)	1753	0.10000	0.336(M)
87	1,4-Dichlorobenzene	146	11.883	11.883	(1.376)	3065	0.10000	0.0882(QM)
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	4750	0.10000	0.0630
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	4403	0.10000	0.0840
90	1,2-Dichlorobenzene	146	12.275	12.275	(1.421)	2466	0.10000	0.156
91	N-Butylbenzene	91	12.458	12.458	(1.442)	2805	0.10000	0.0288(a)
92	1,2-Dibromo-3-Chloropropane	157	12.902	12.902	(1.494)	387	0.10000	0.223(QM)
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	14.169	14.169	(1.640)	645	0.10000	0.358(M)
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	1232	0.10000	0.0795

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06109.D
Lab Smp Id: cal1
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

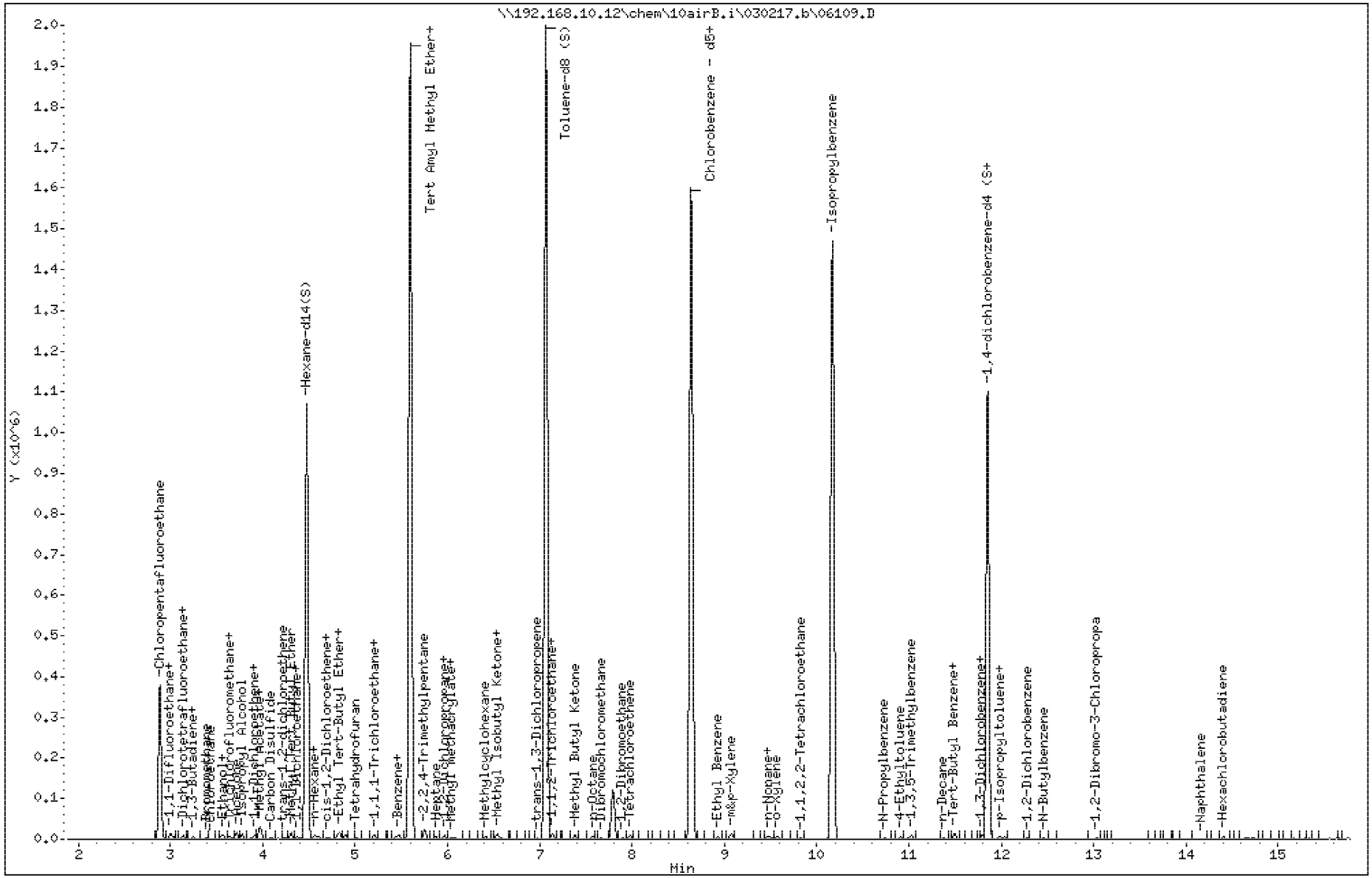
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1406108	-0.57
67 Chlorobenzene - d	951026	570616	1331436	893268	-6.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

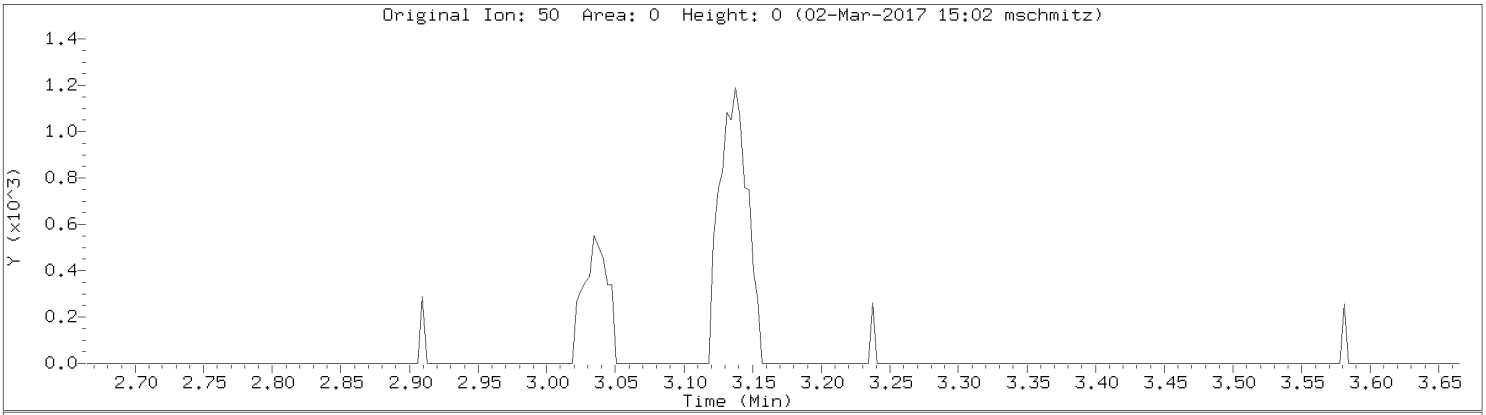
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Date : 02-MAR-2017 11:19
Client ID:
Sample Info:

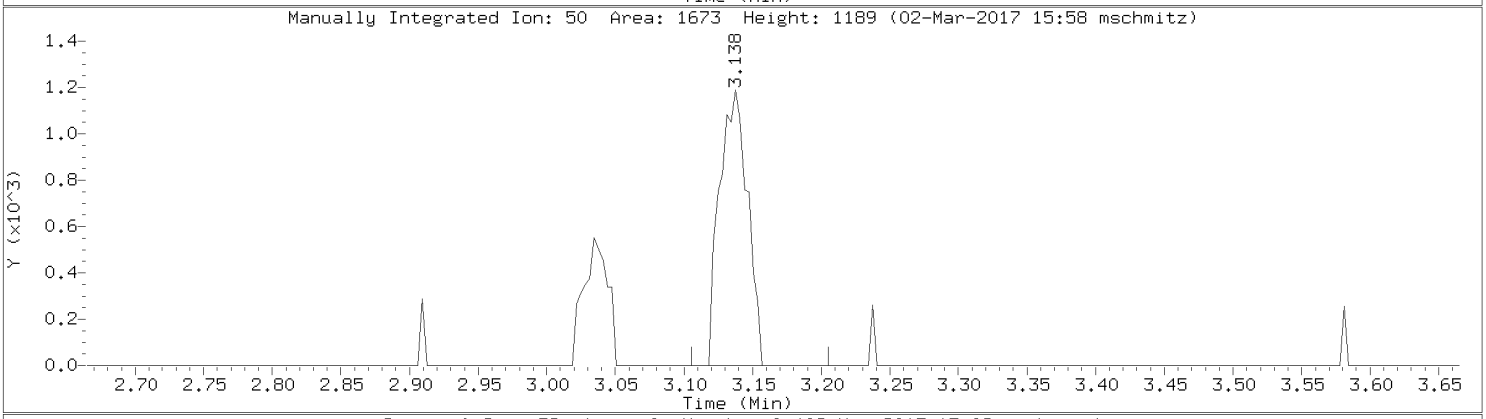
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

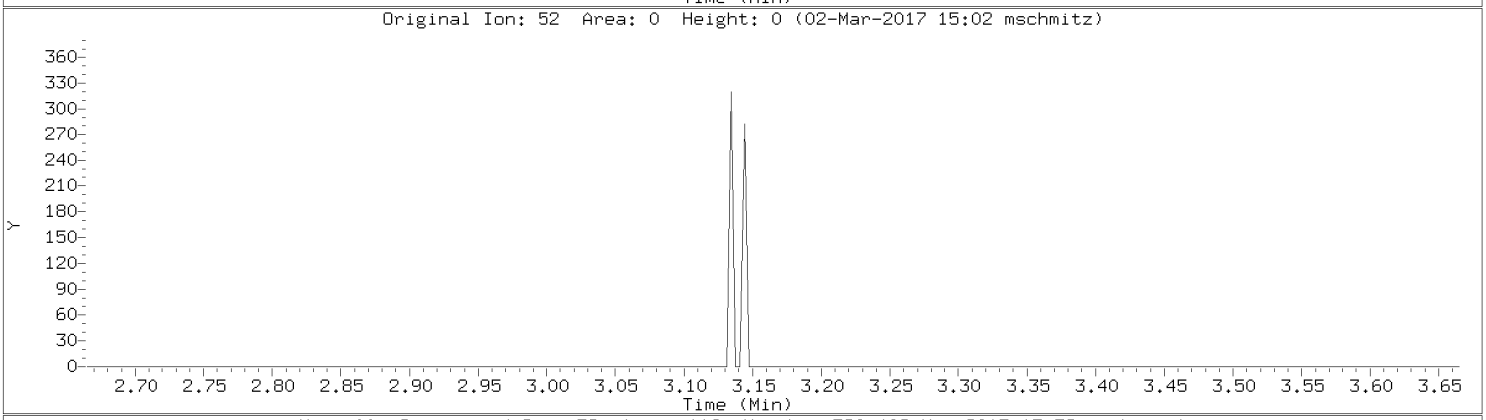


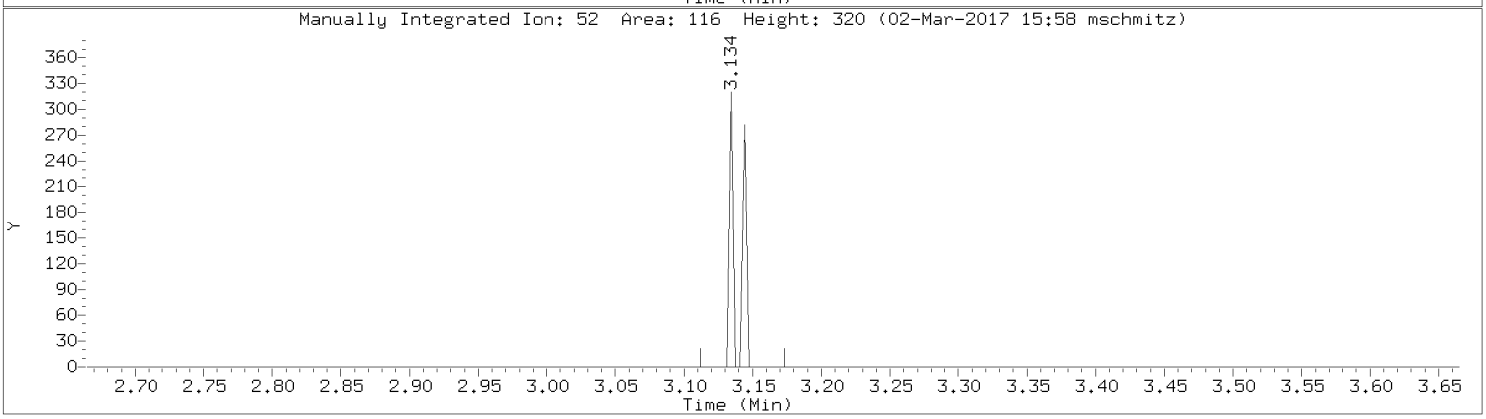
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chloromethane
CAS Number: 74-87-3



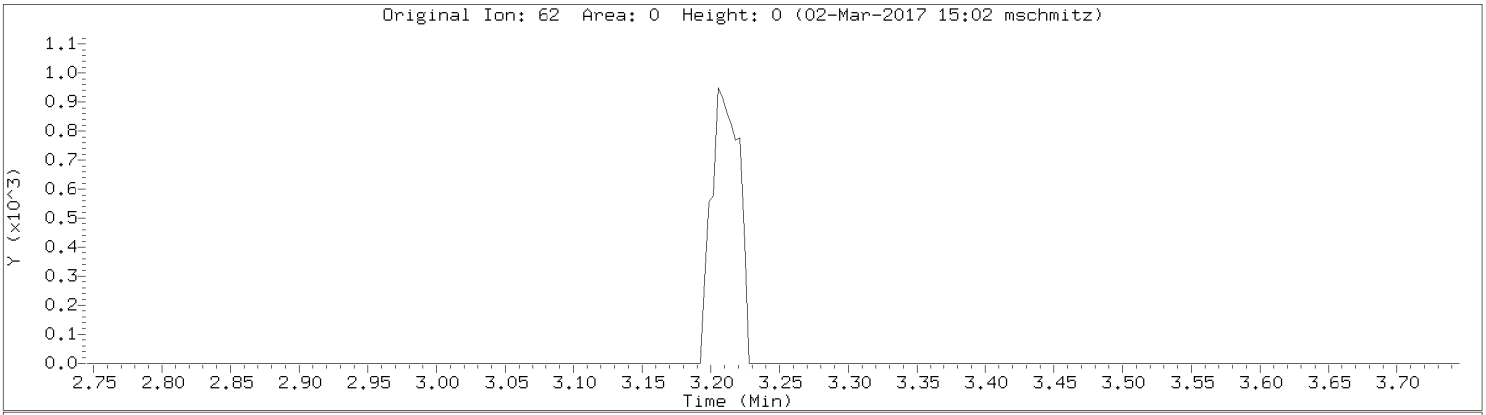


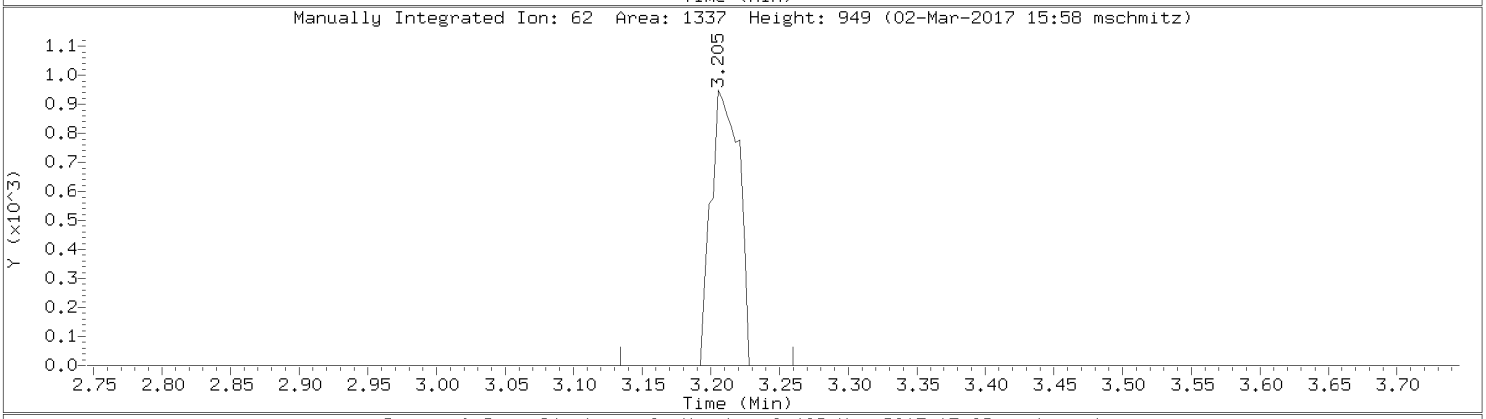


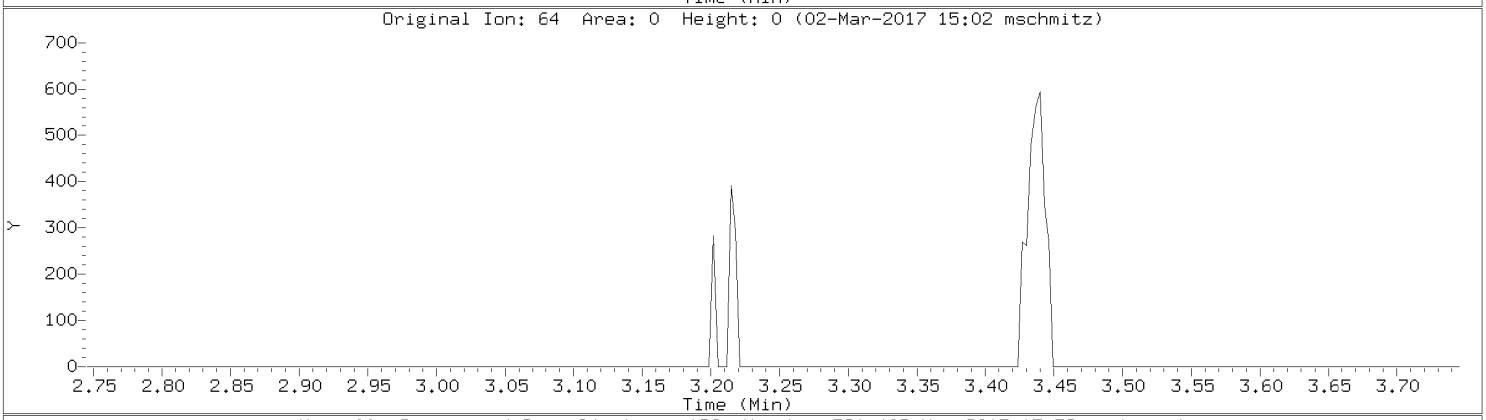


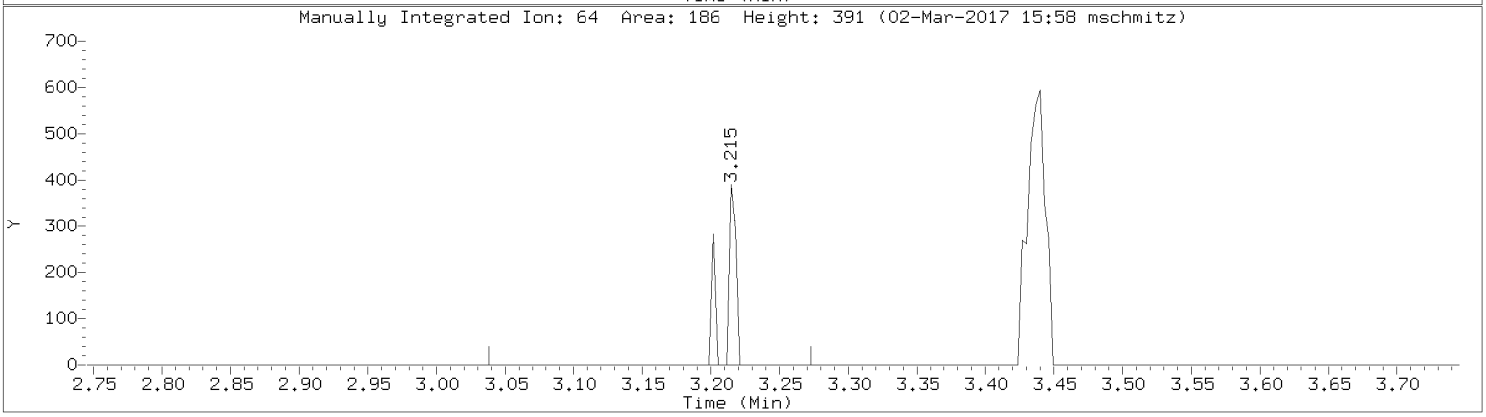
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Vinyl chloride
CAS Number: 75-01-4



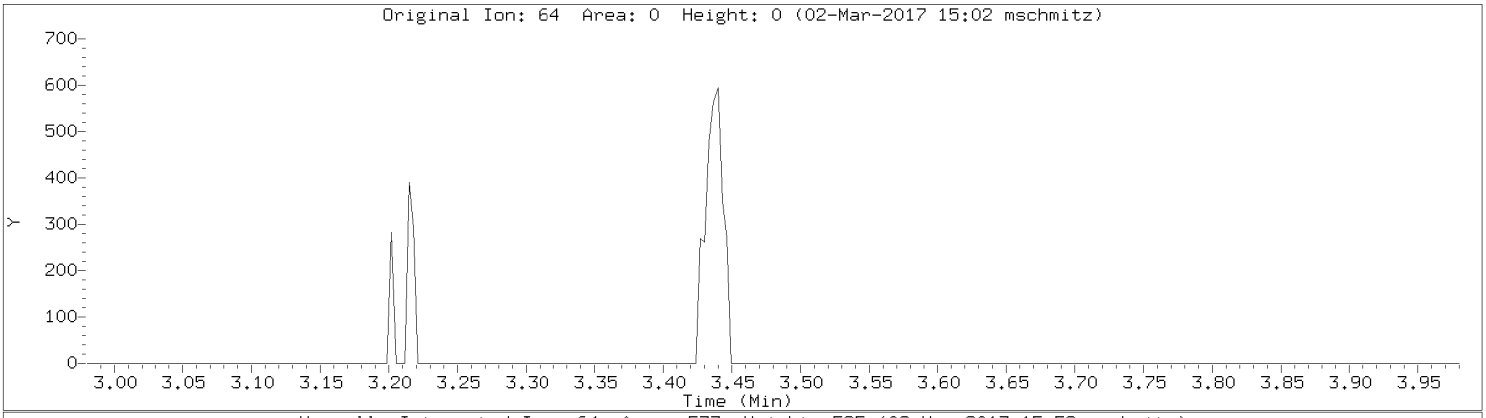


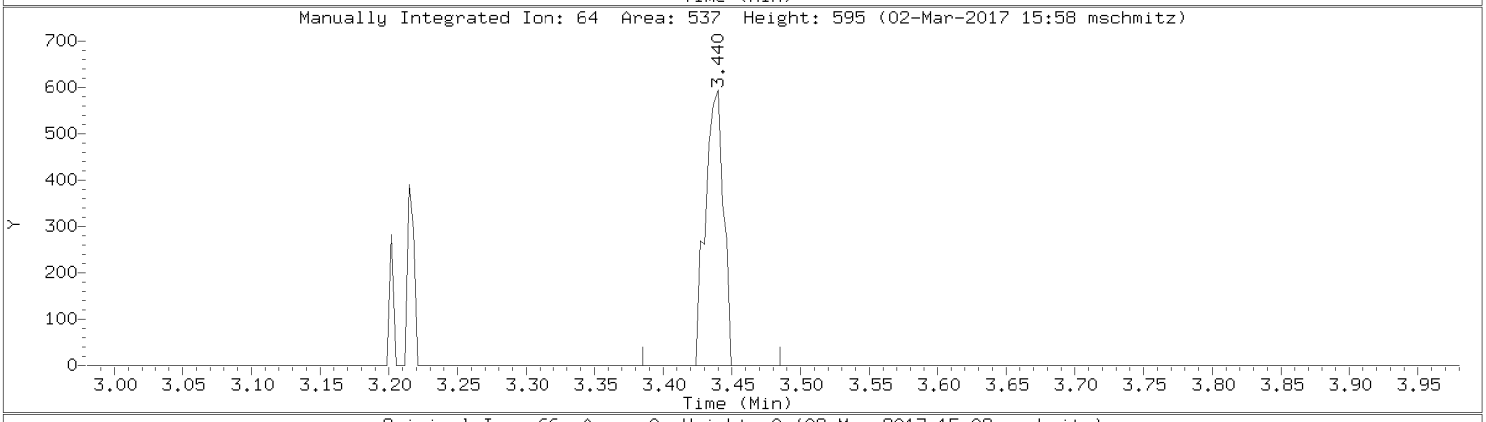


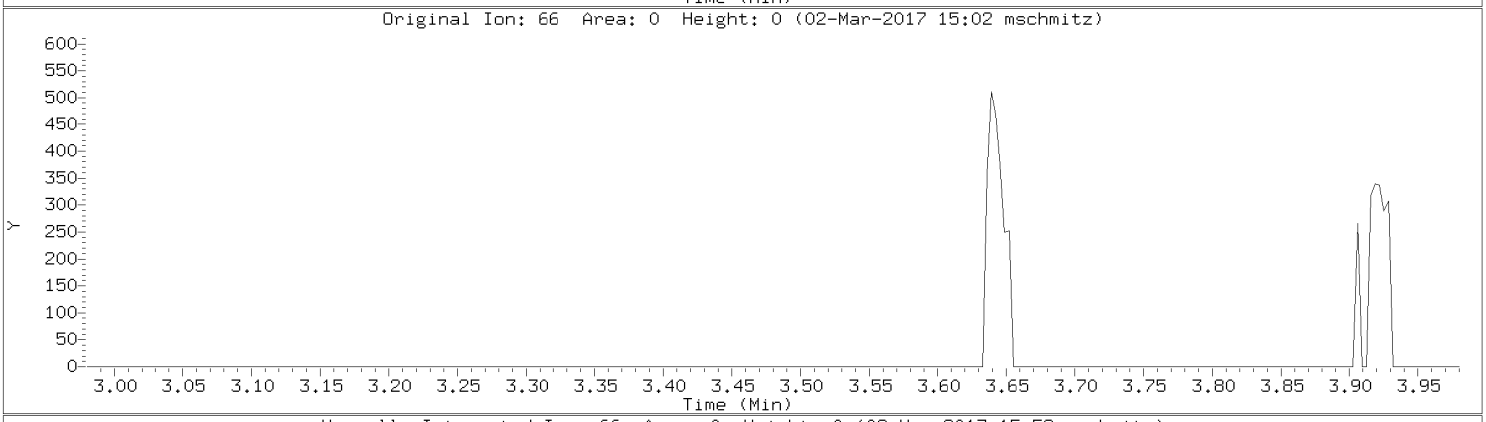


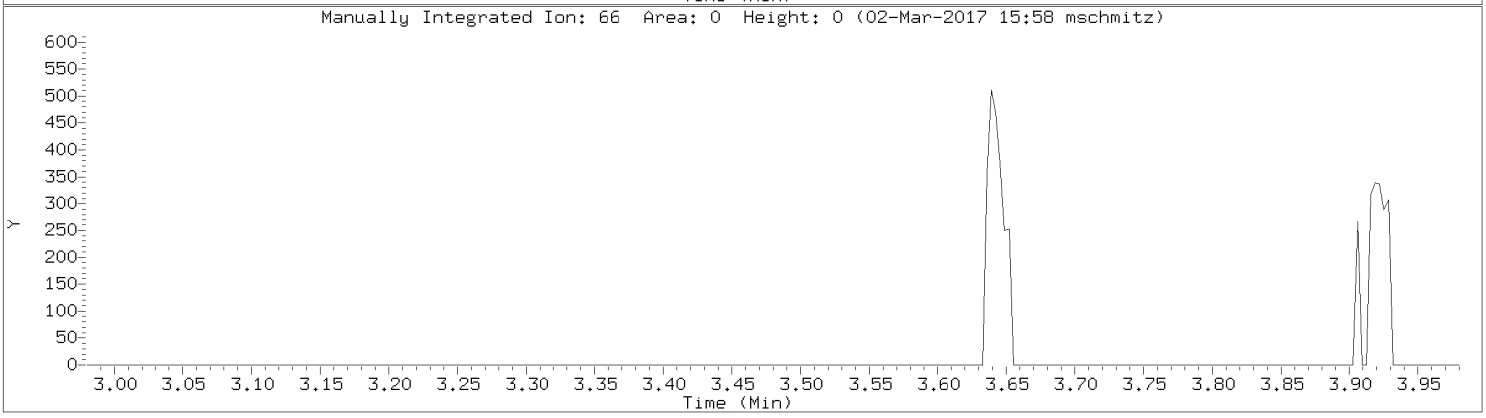
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chloroethane
CAS Number: 75-00-3



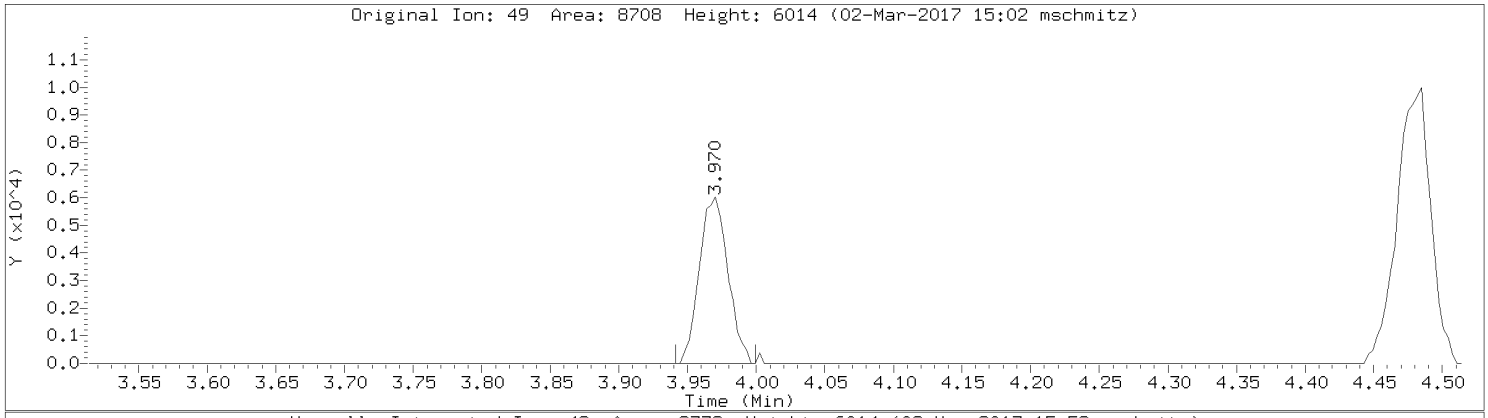


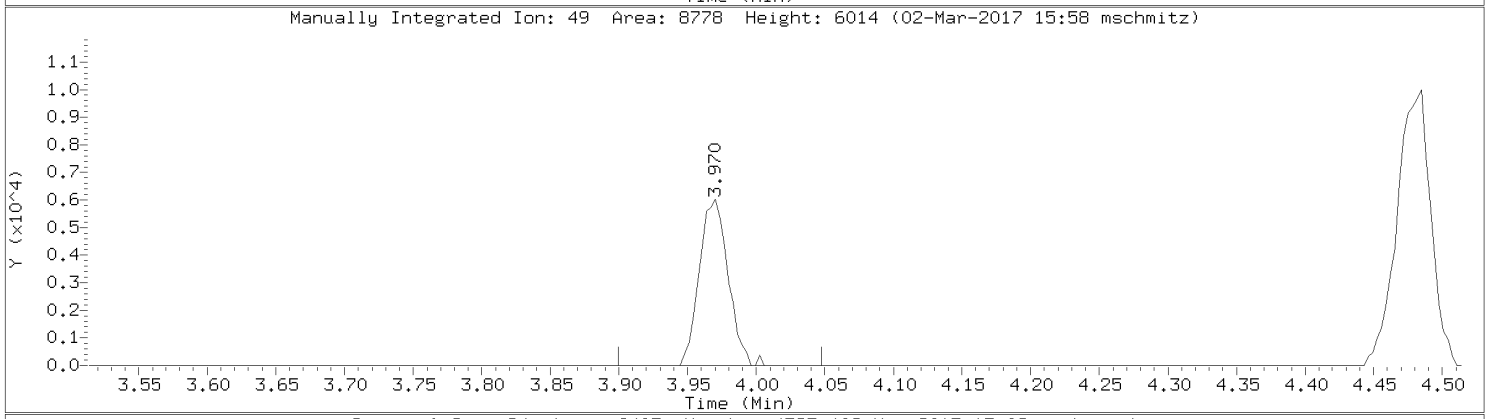


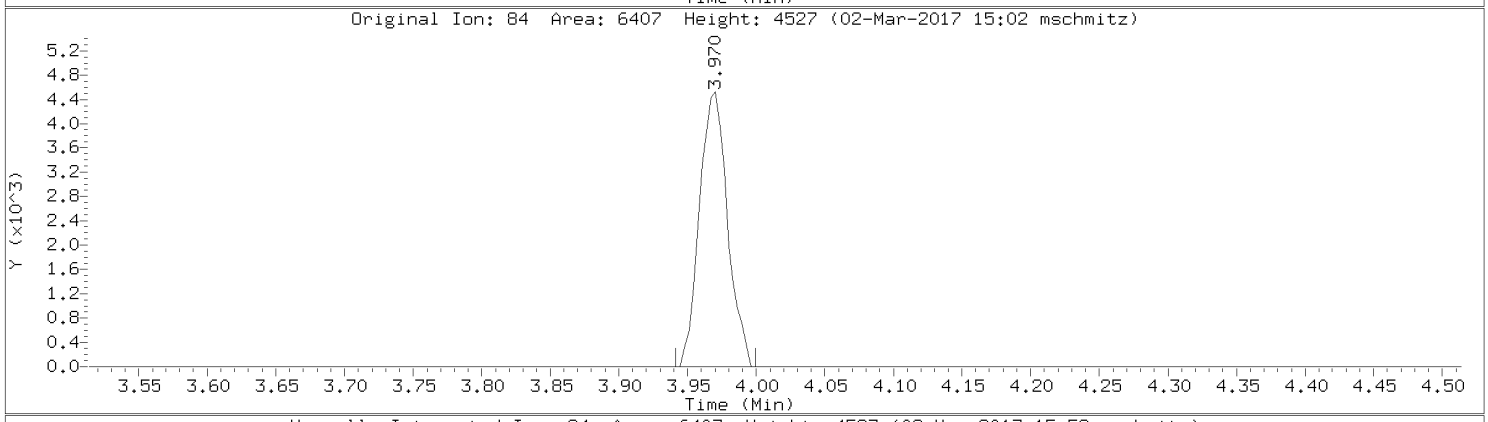


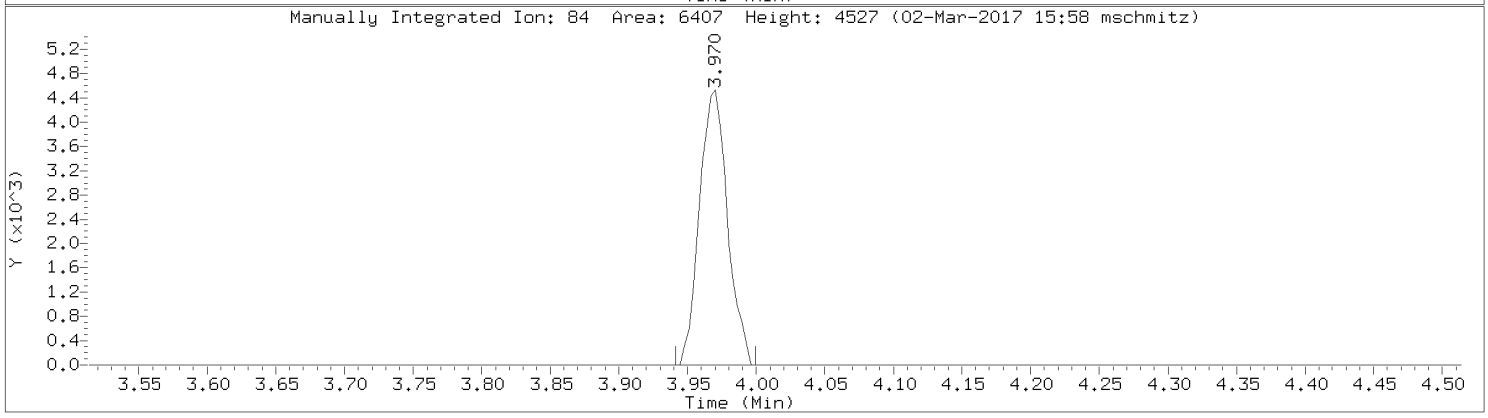
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Methylene chloride
CAS Number: 75-09-2

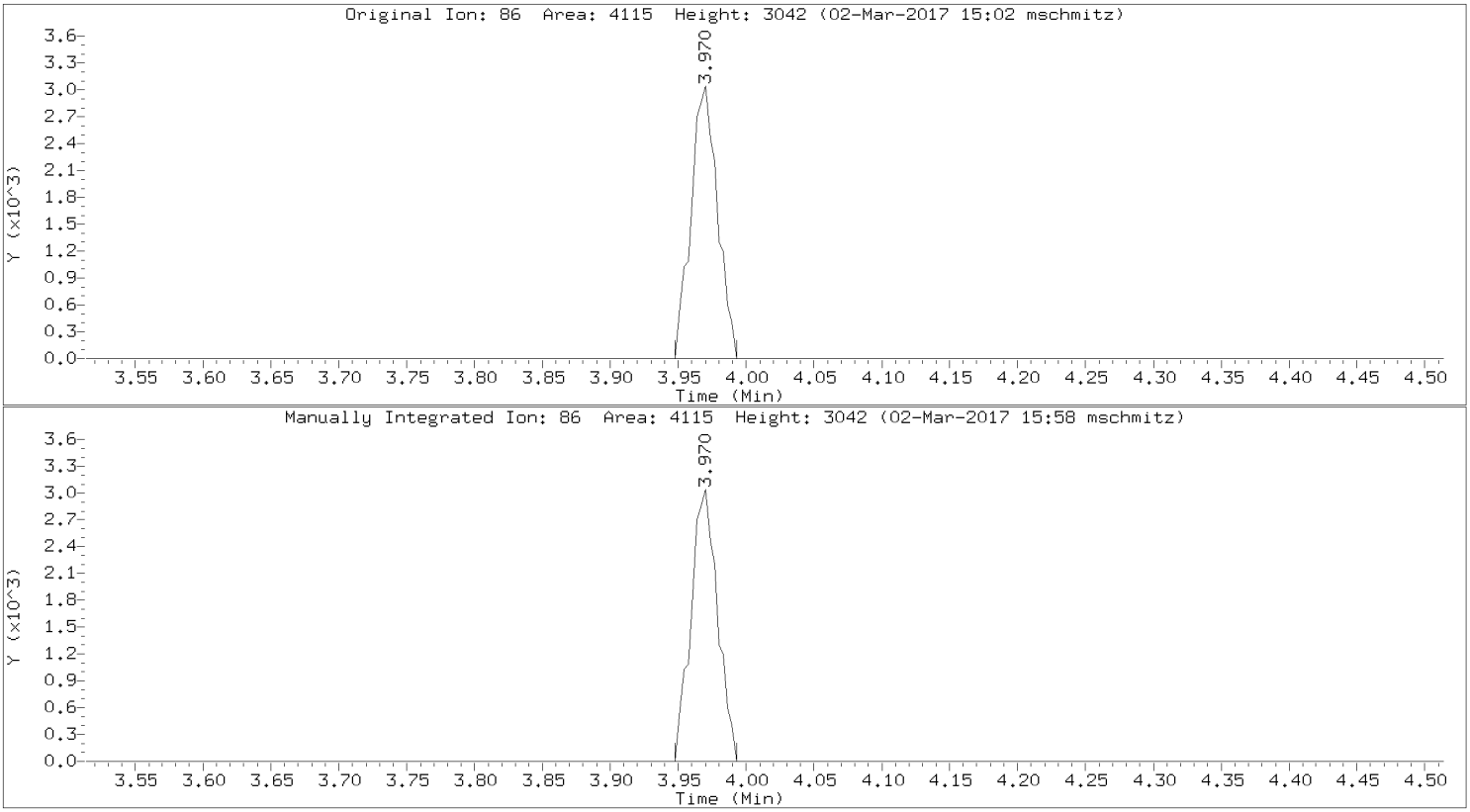






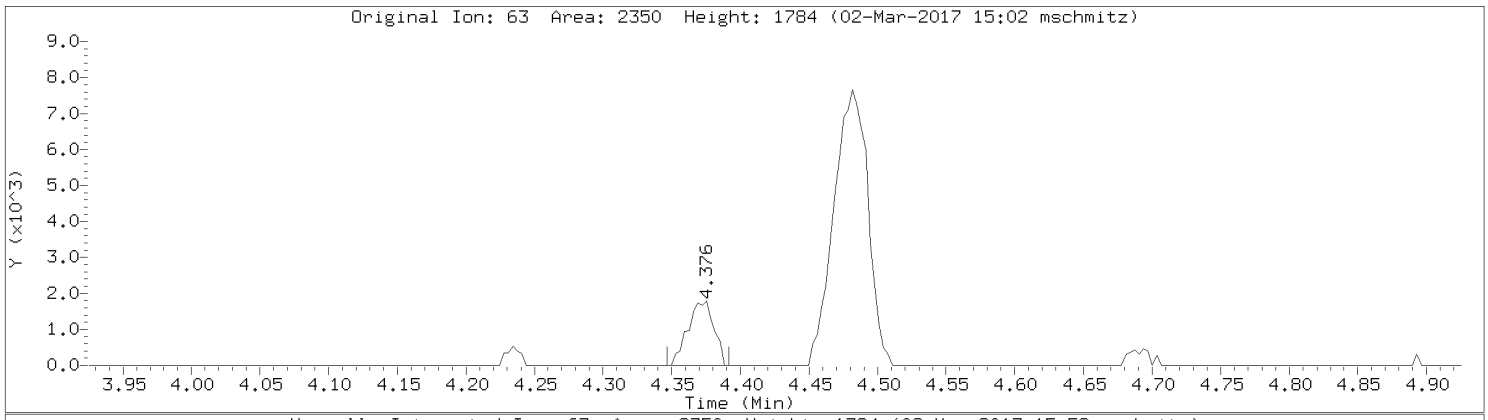


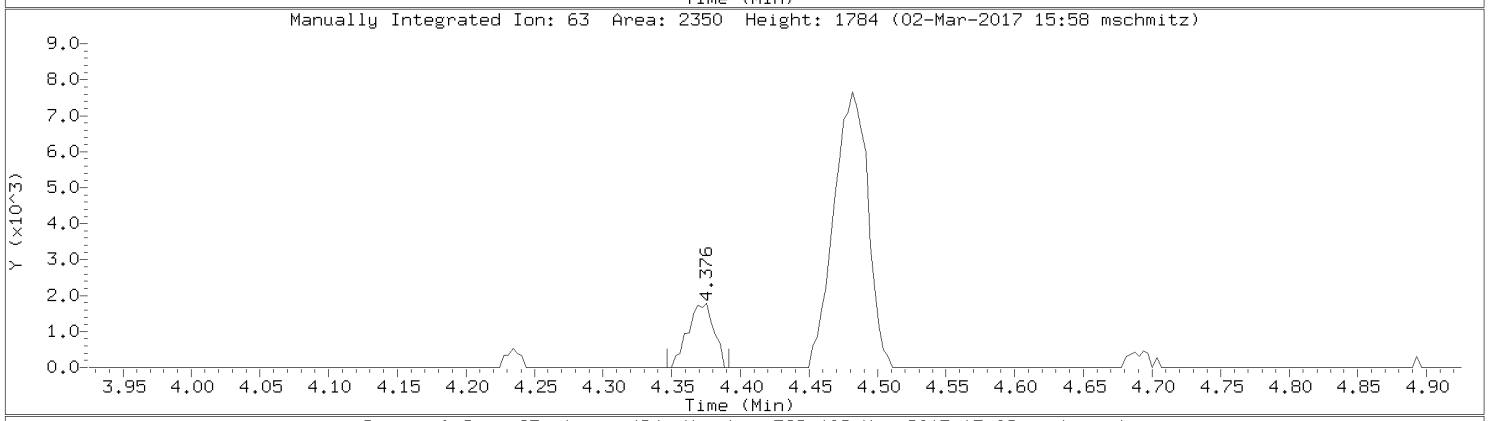
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

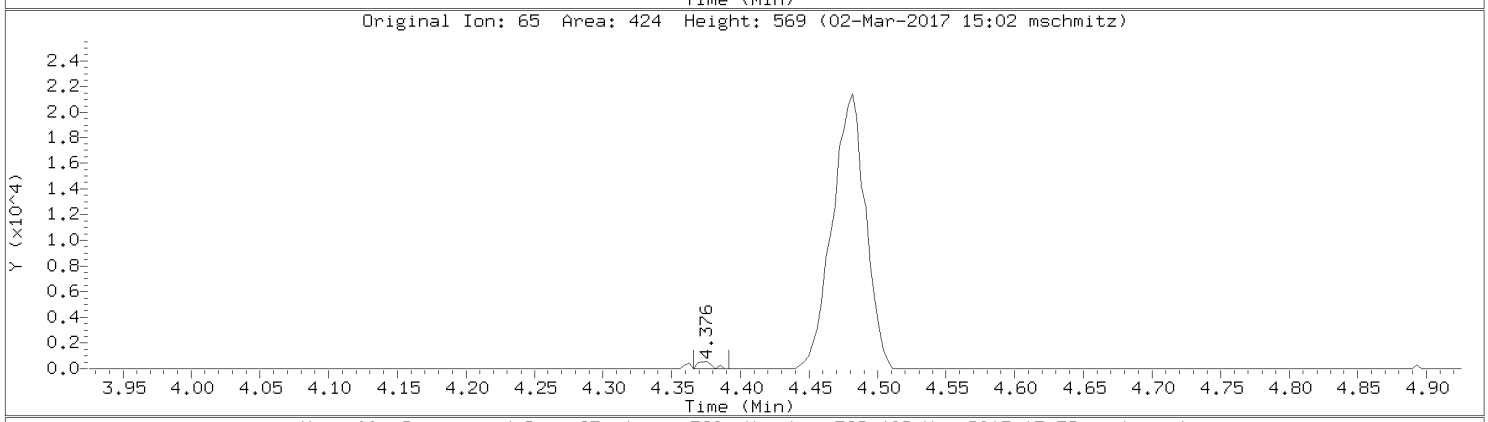


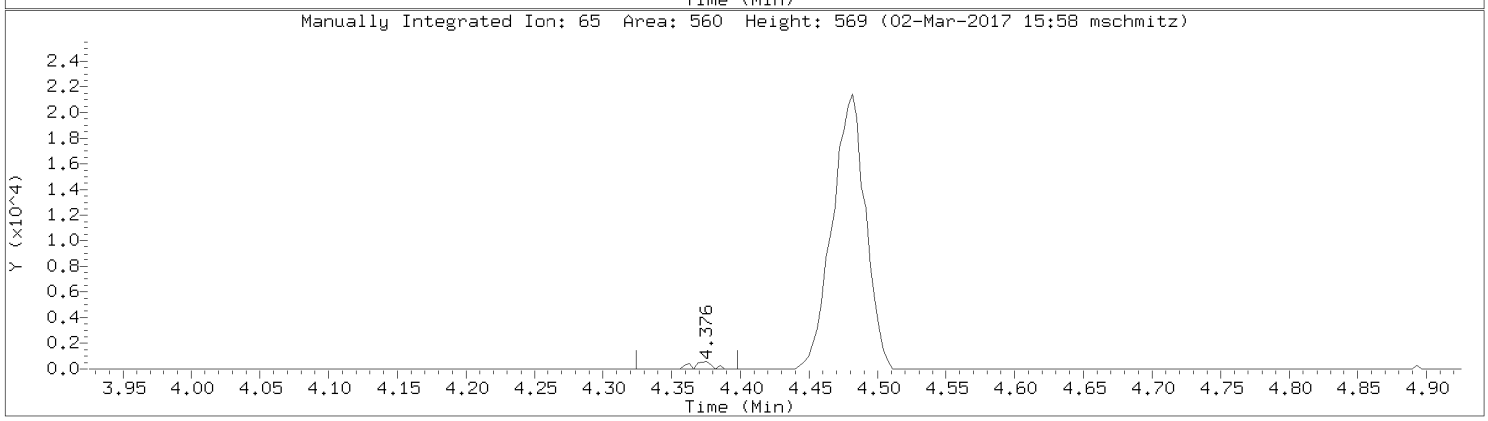
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,1-Dichloroethane
CAS Number: 75-34-3



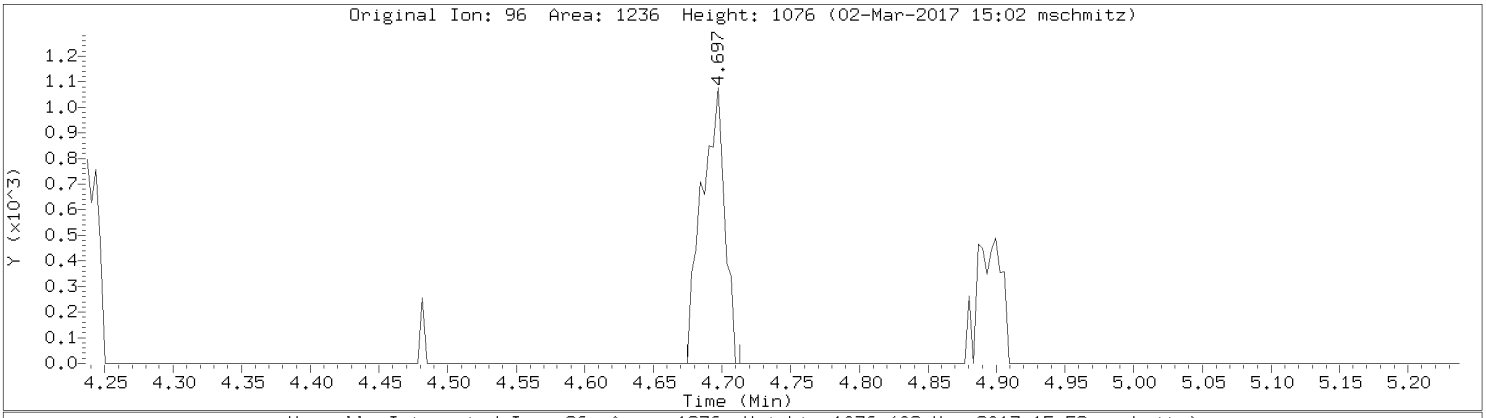


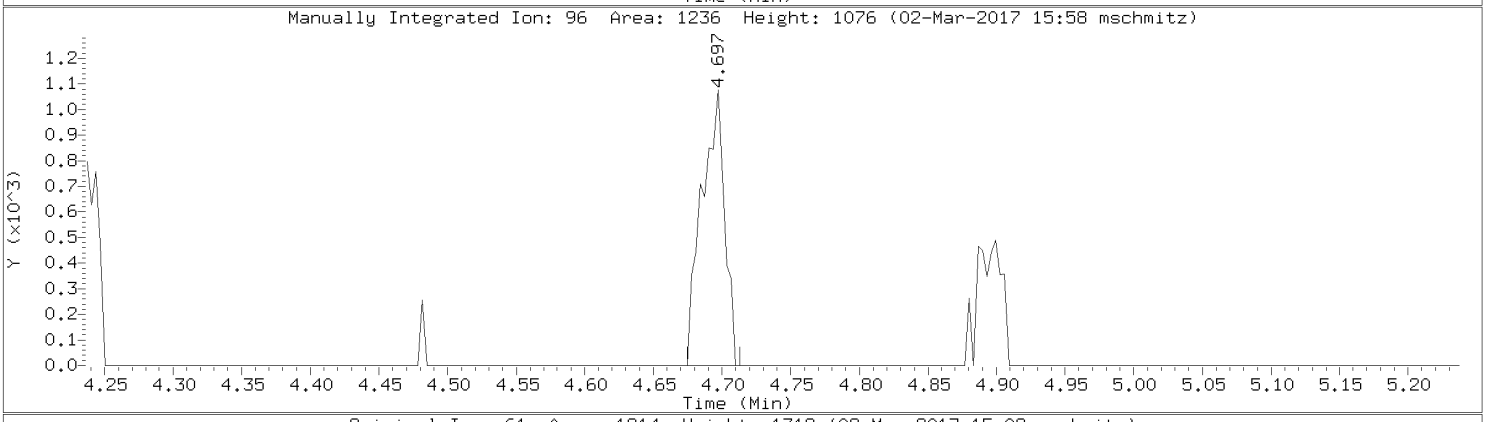


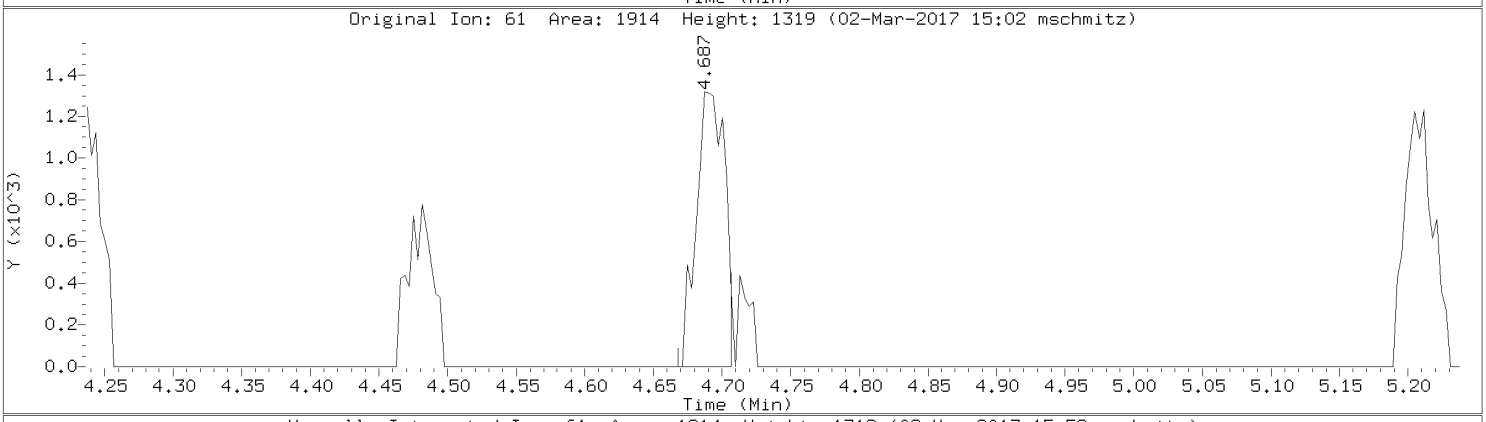


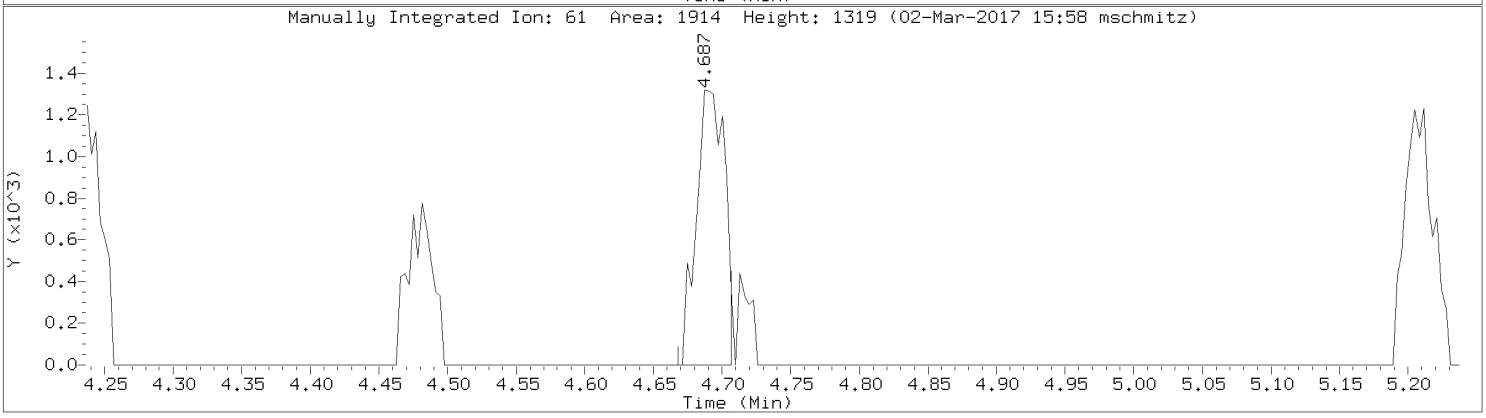
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: cis-1,2-Dichloroethene
CAS Number: 156-59-2

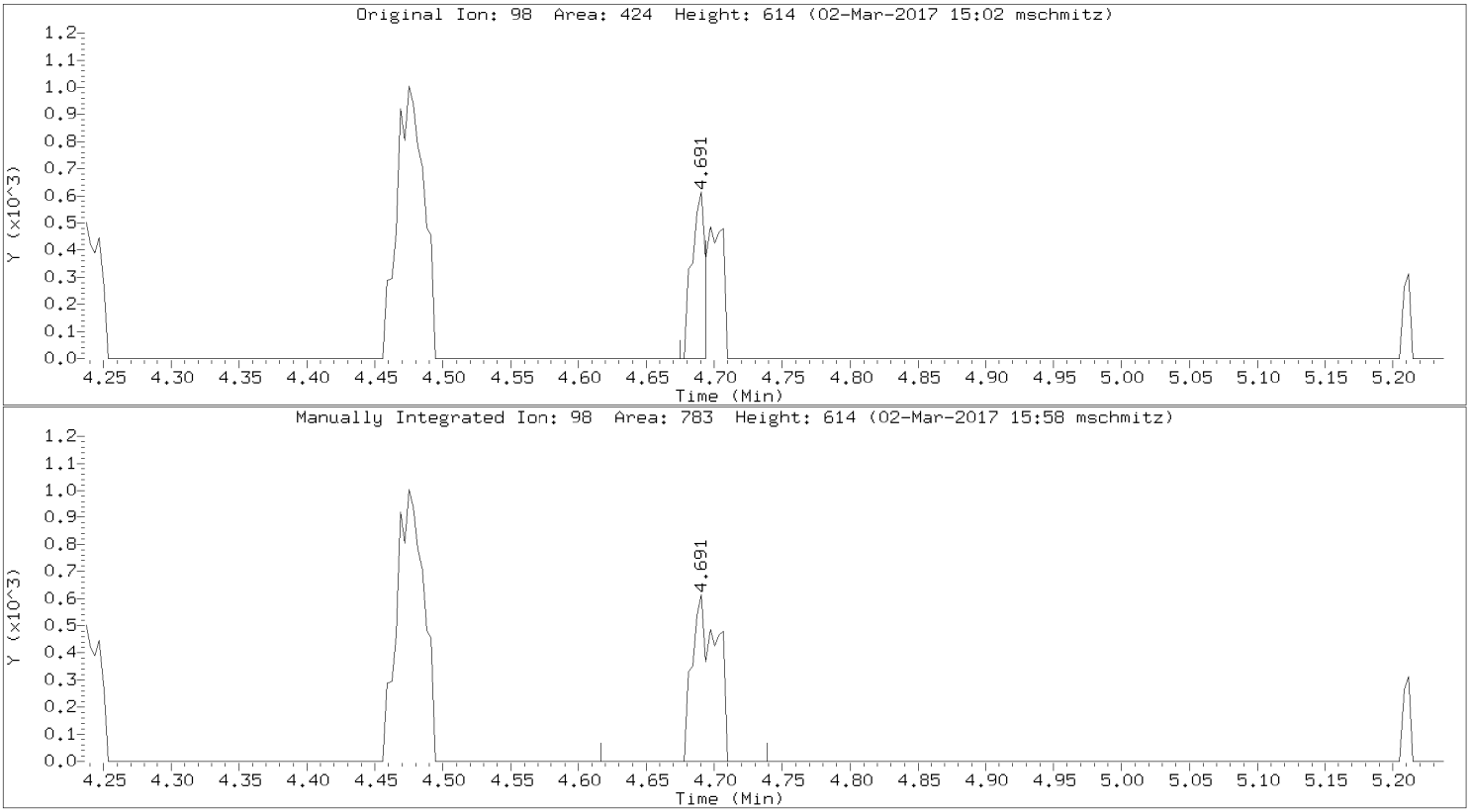






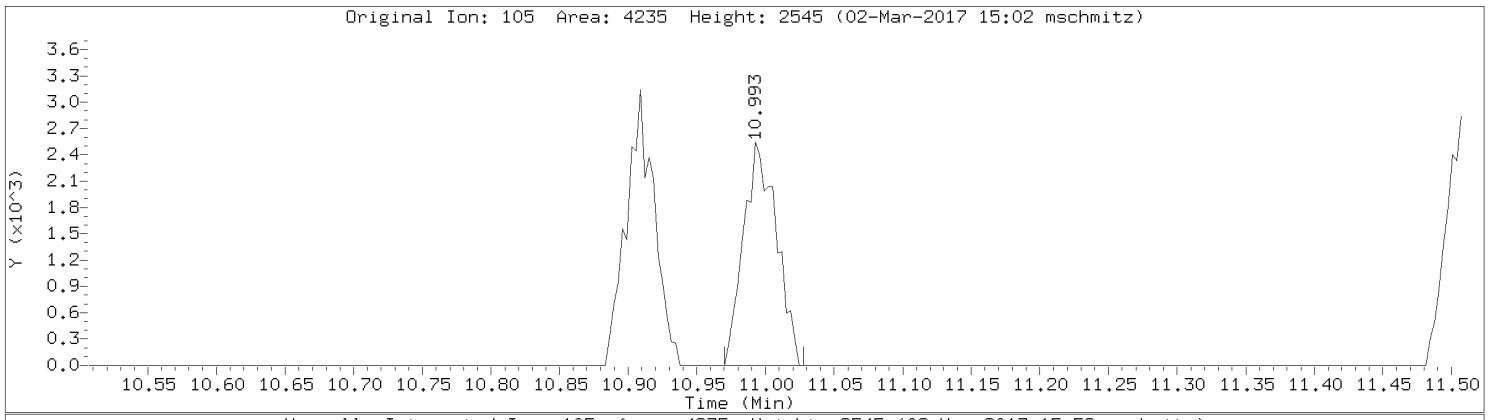


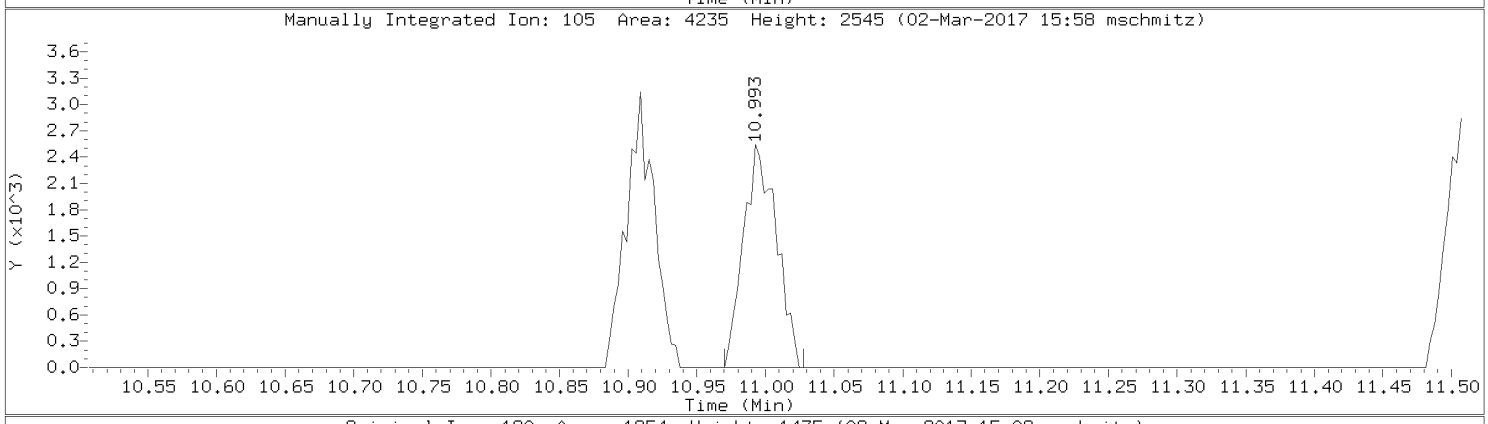
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

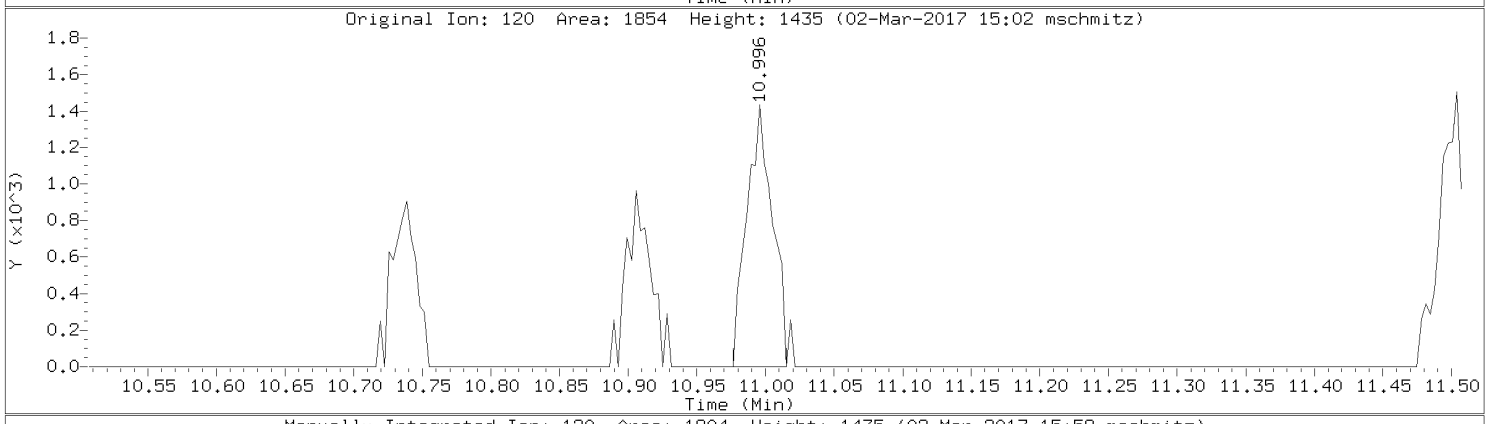


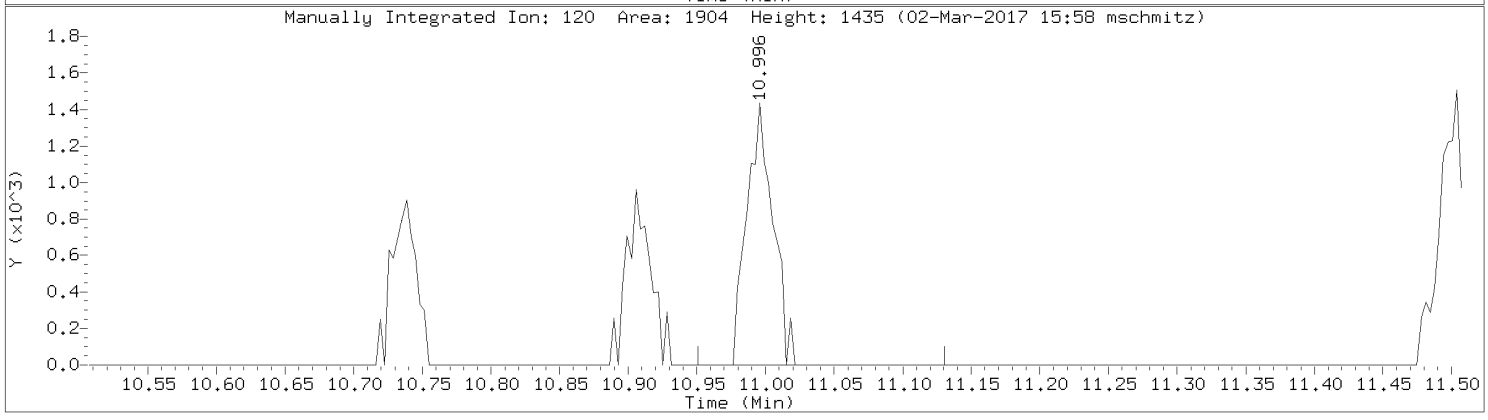
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



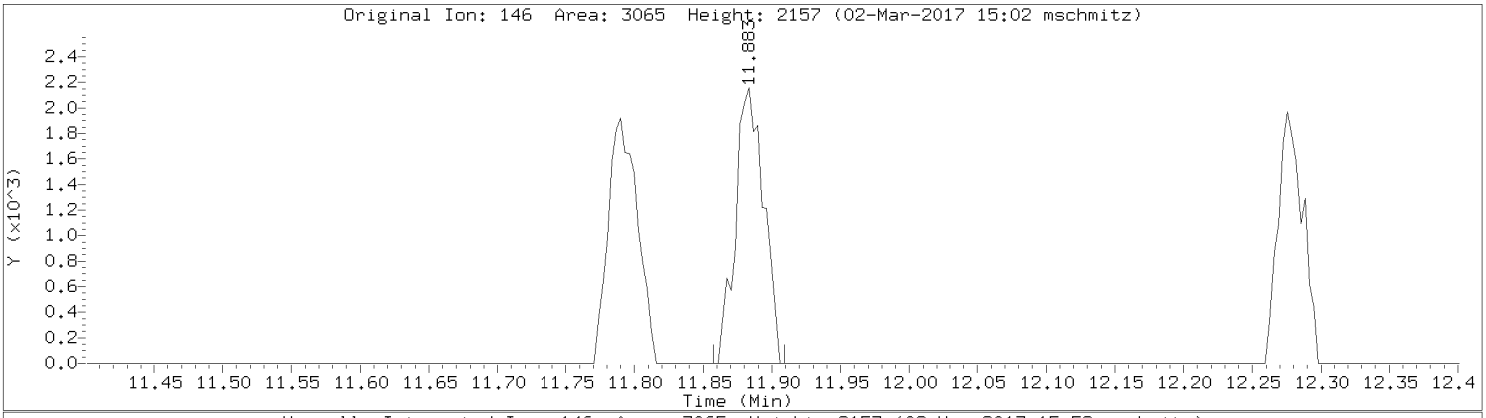


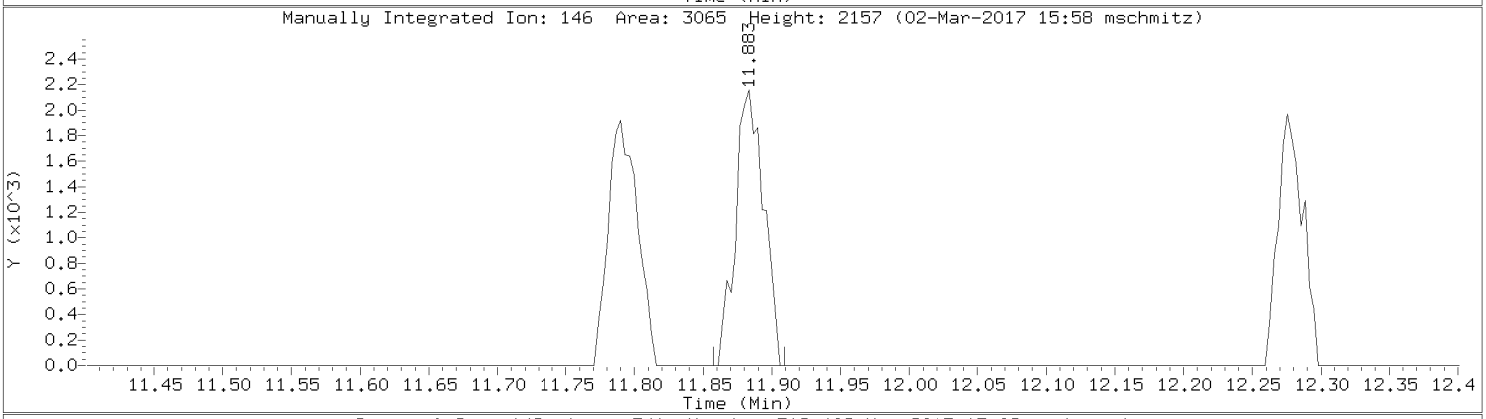


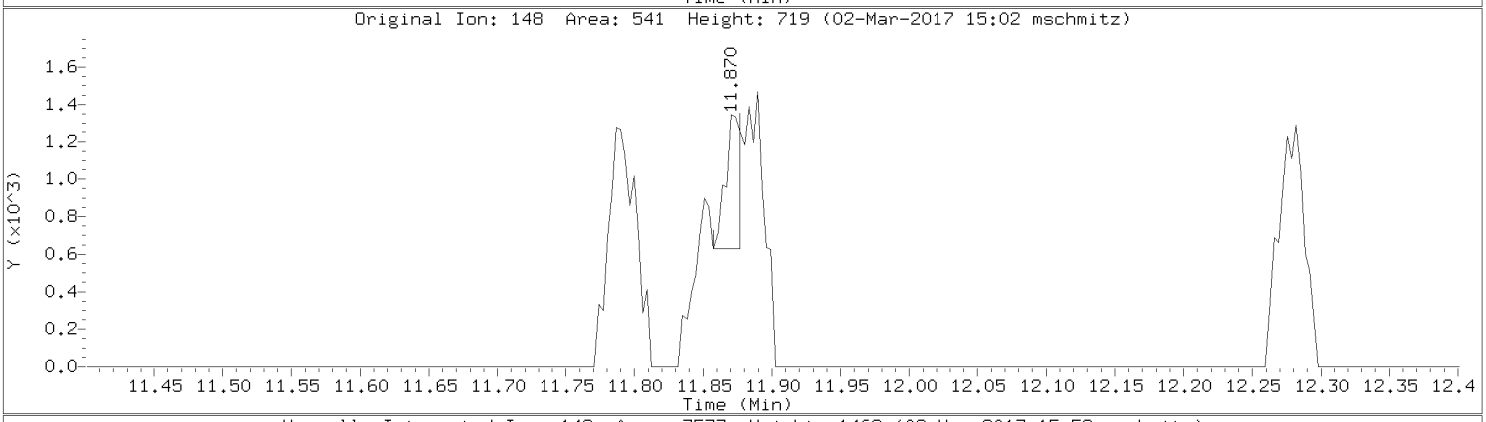


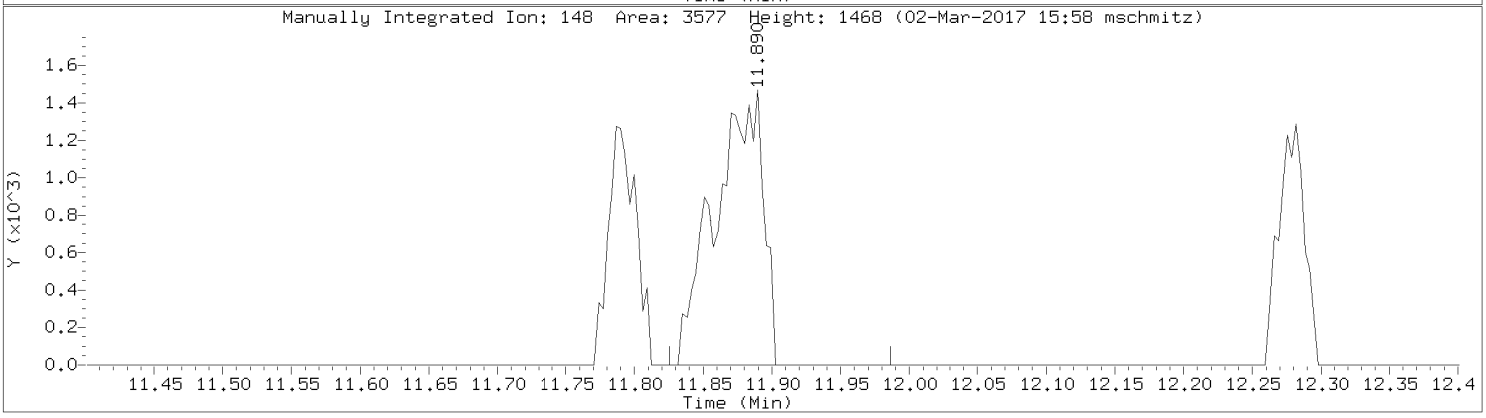
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

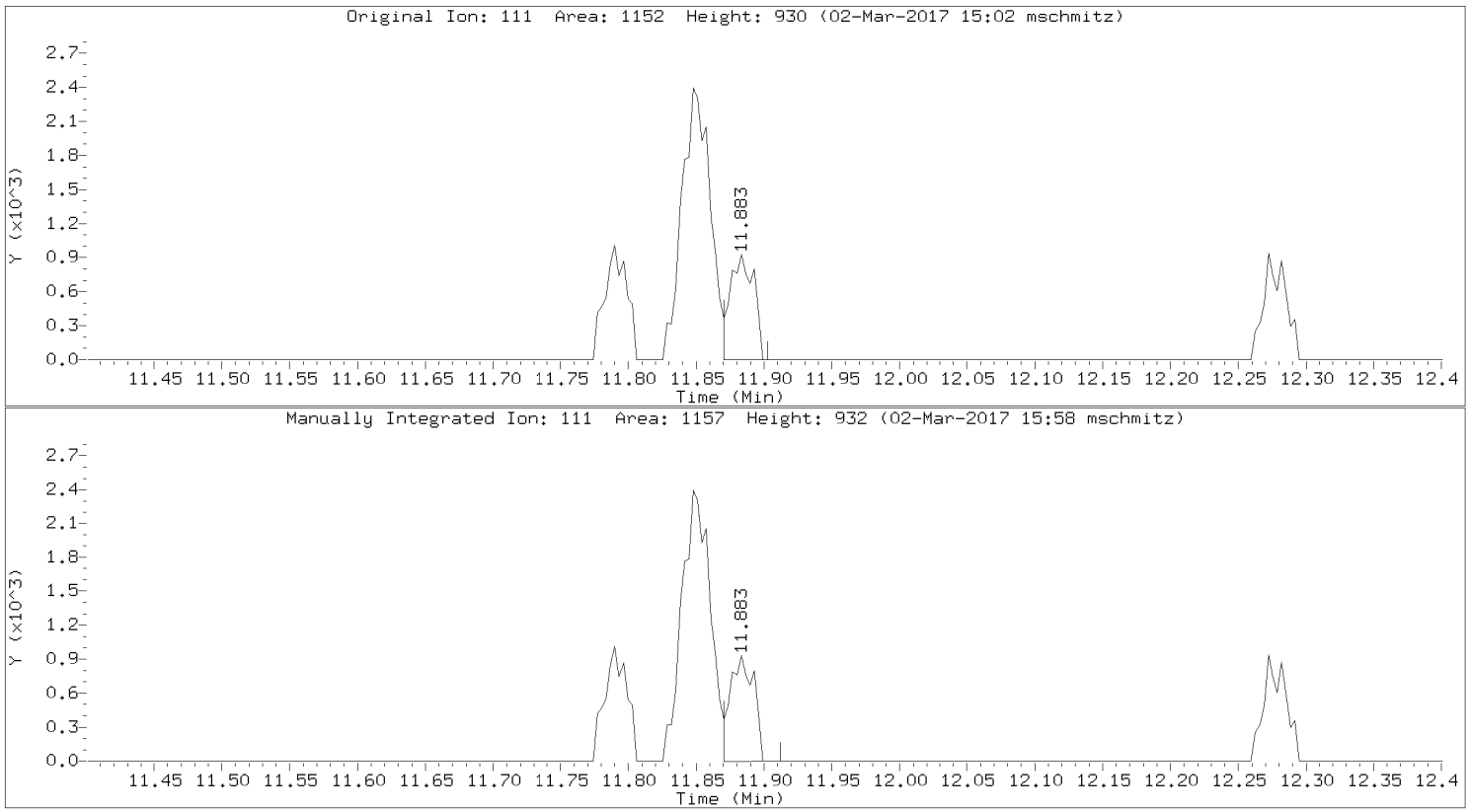






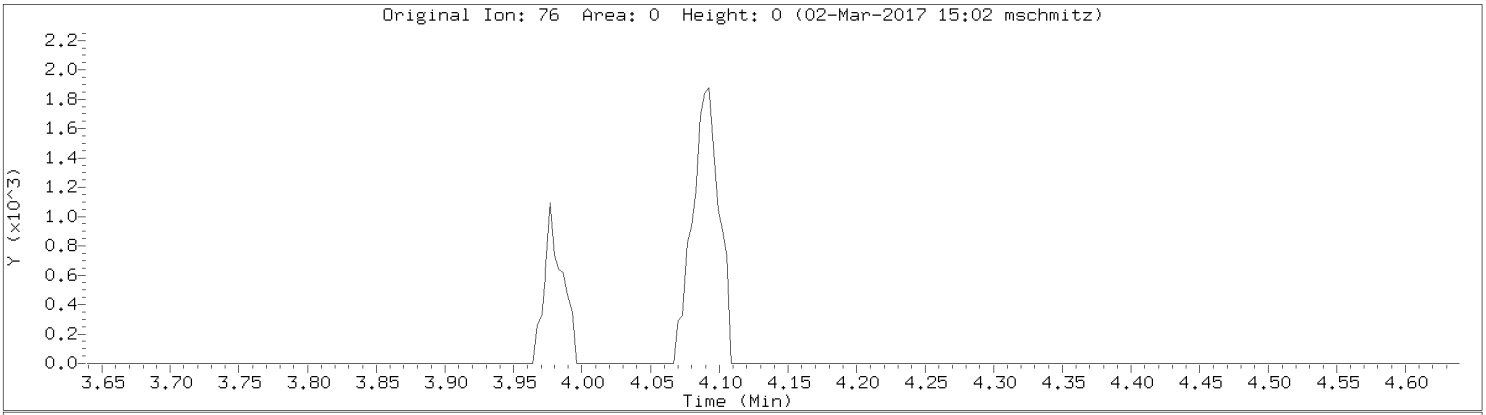


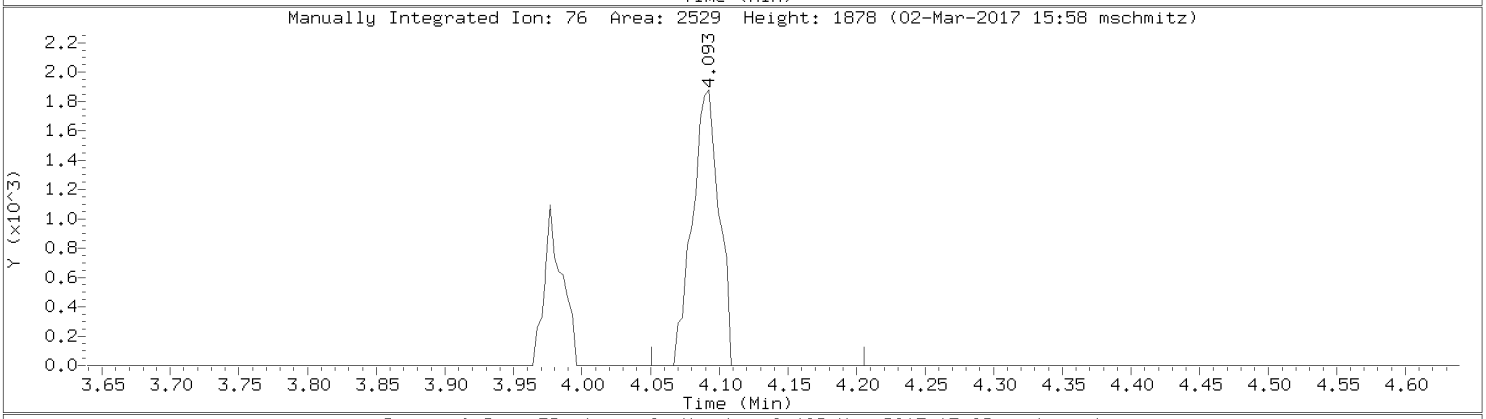
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

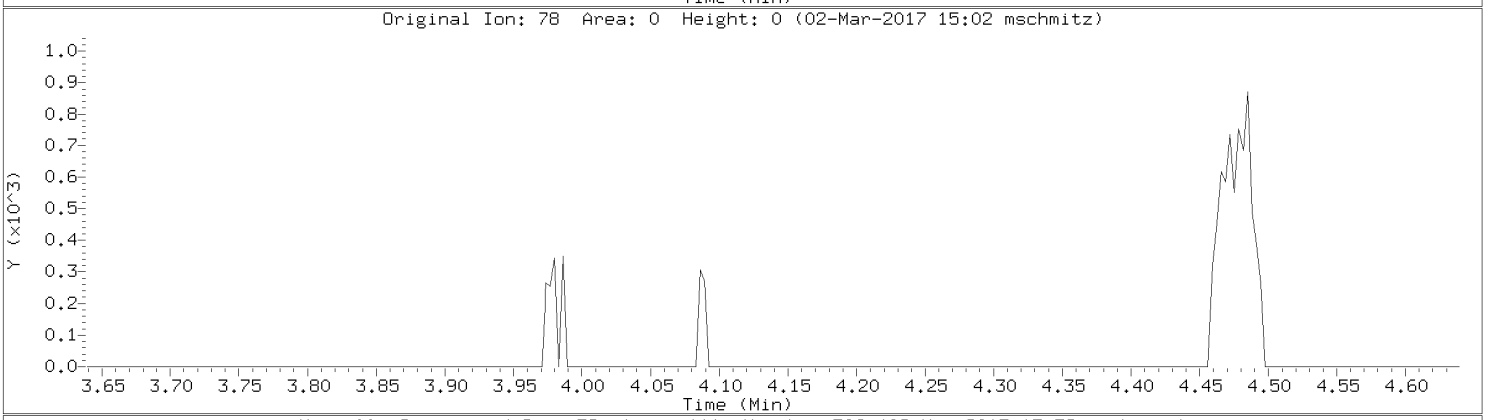


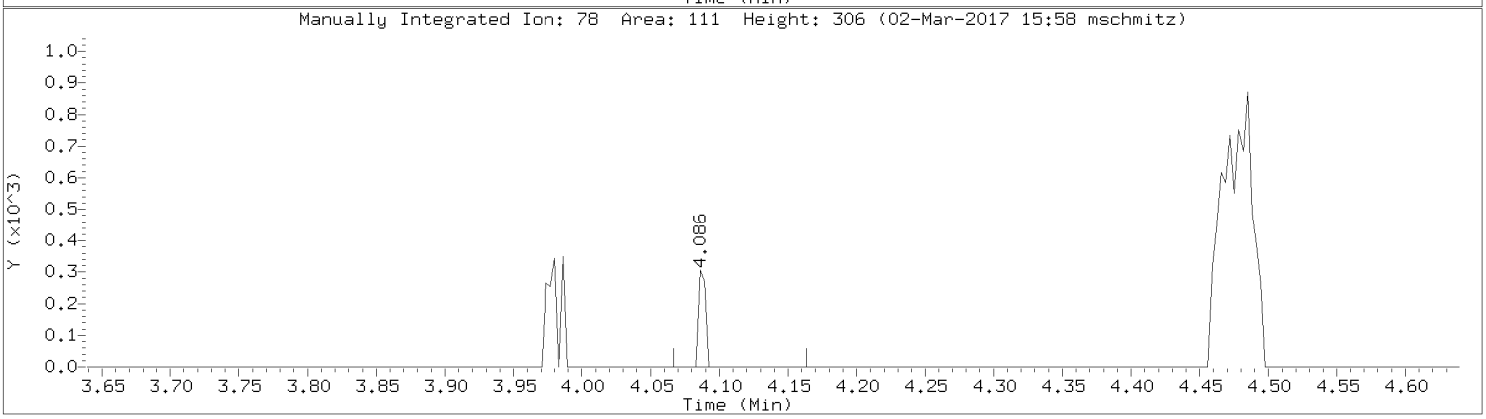
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Carbon Disulfide
CAS Number: 75-15-0



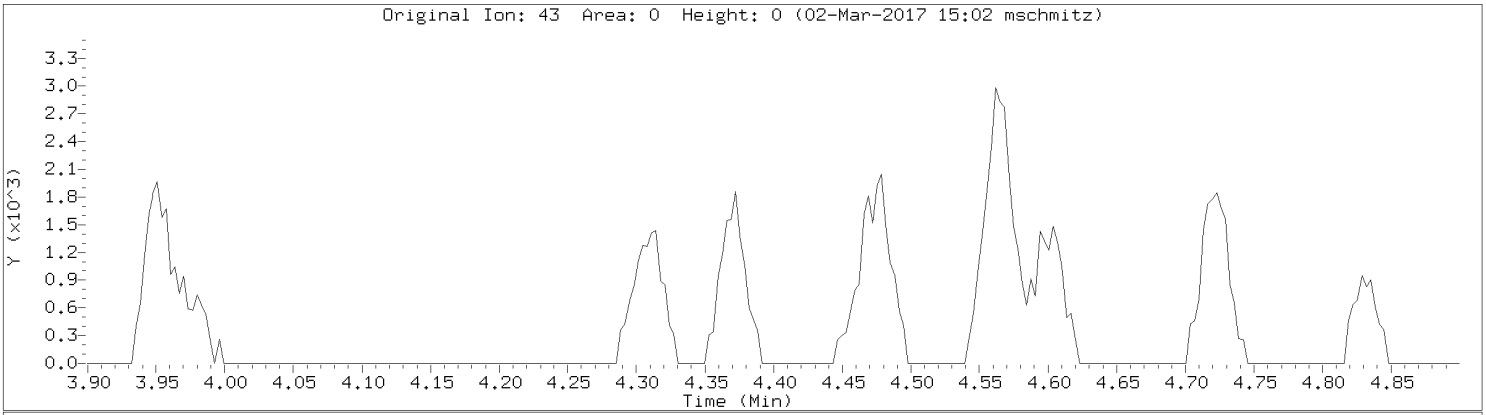


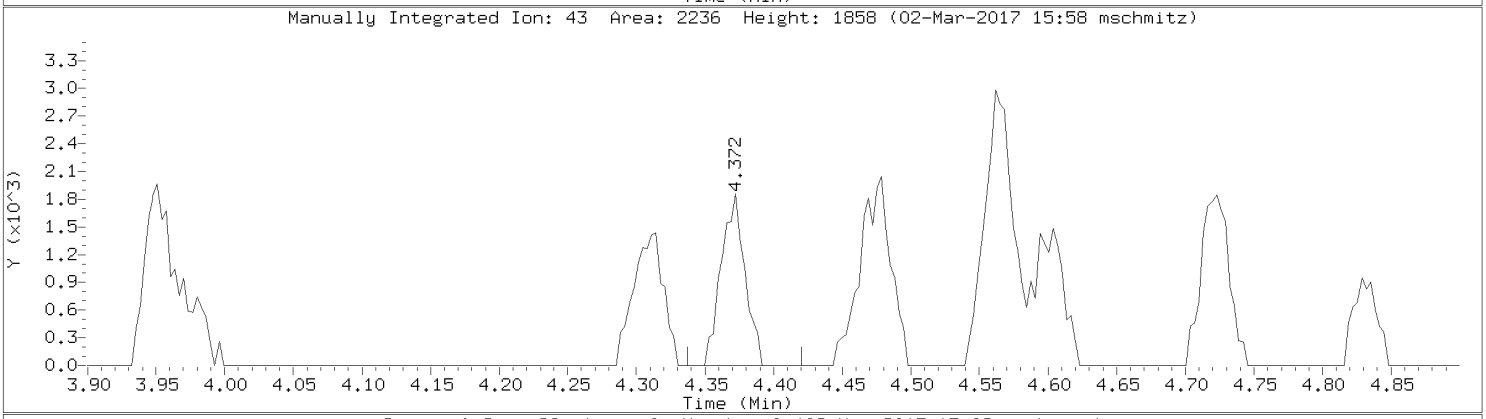


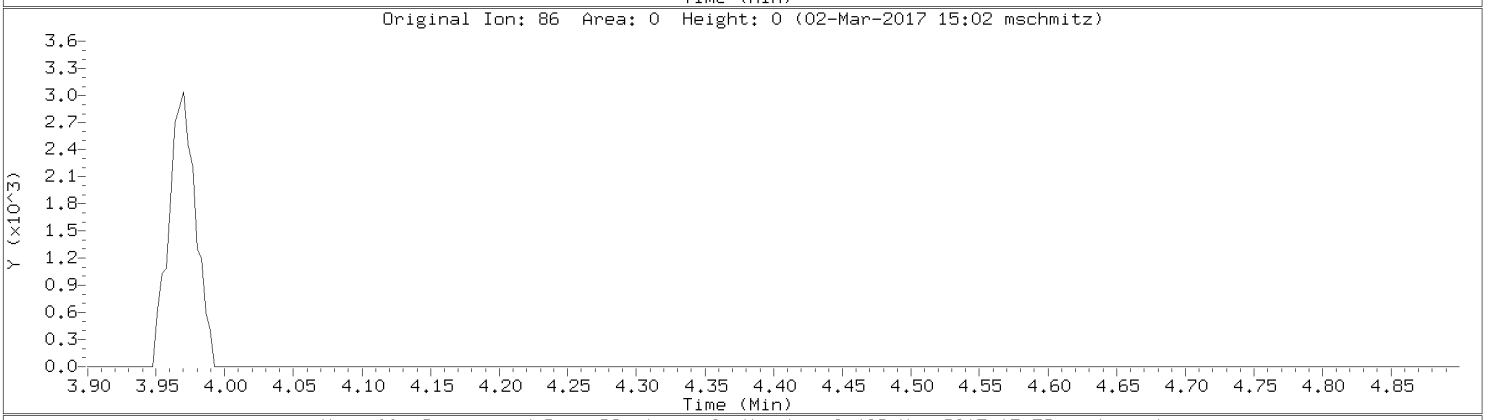


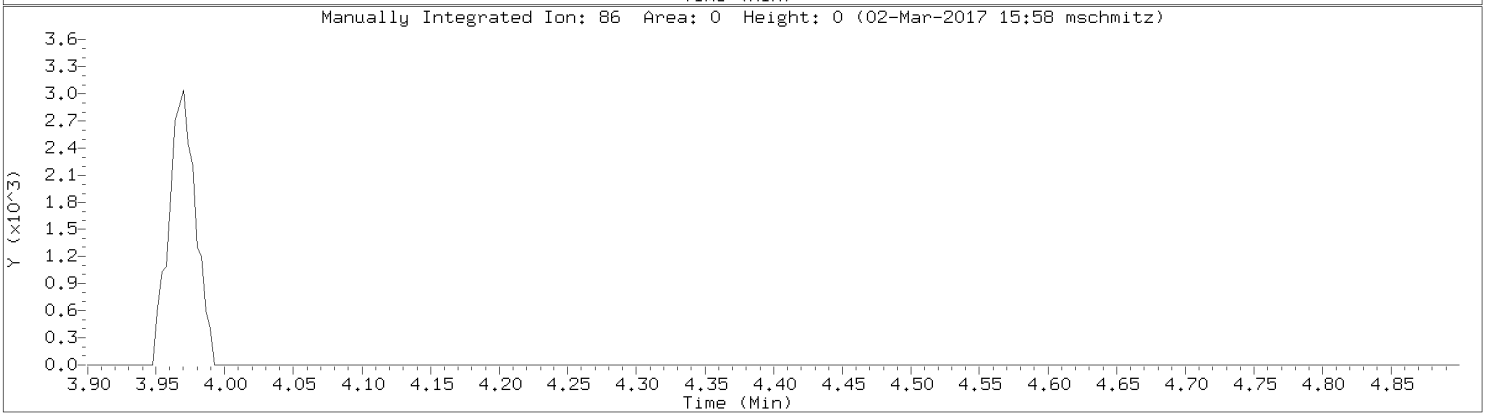
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Vinyl Acetate
CAS Number: 108-05-4



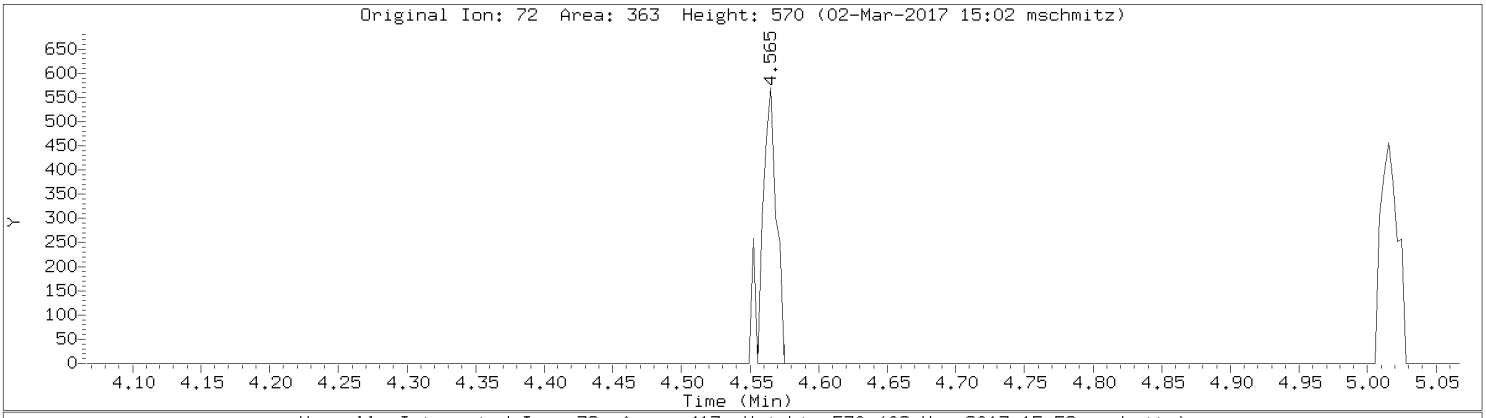


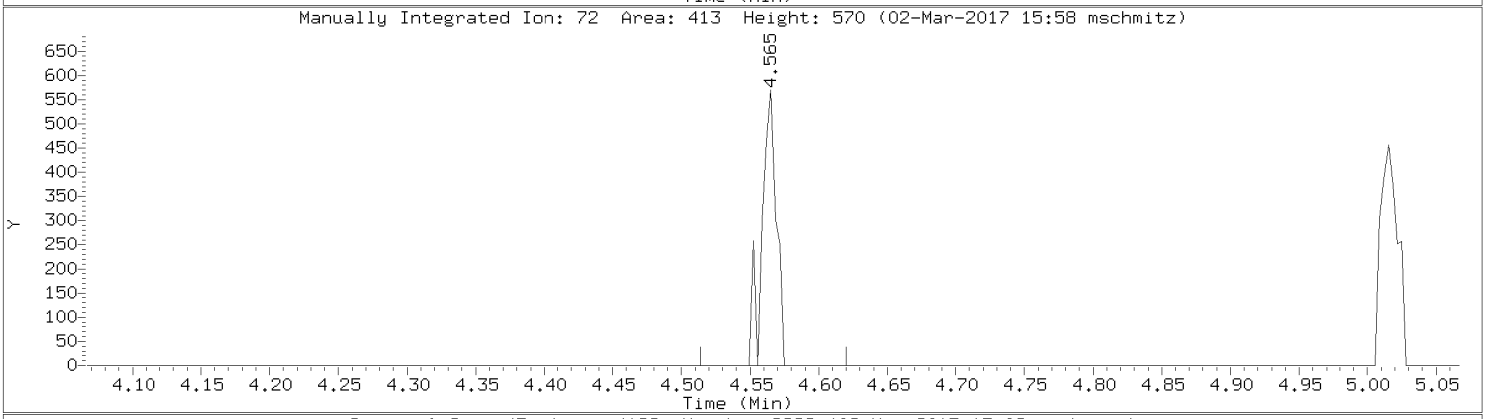


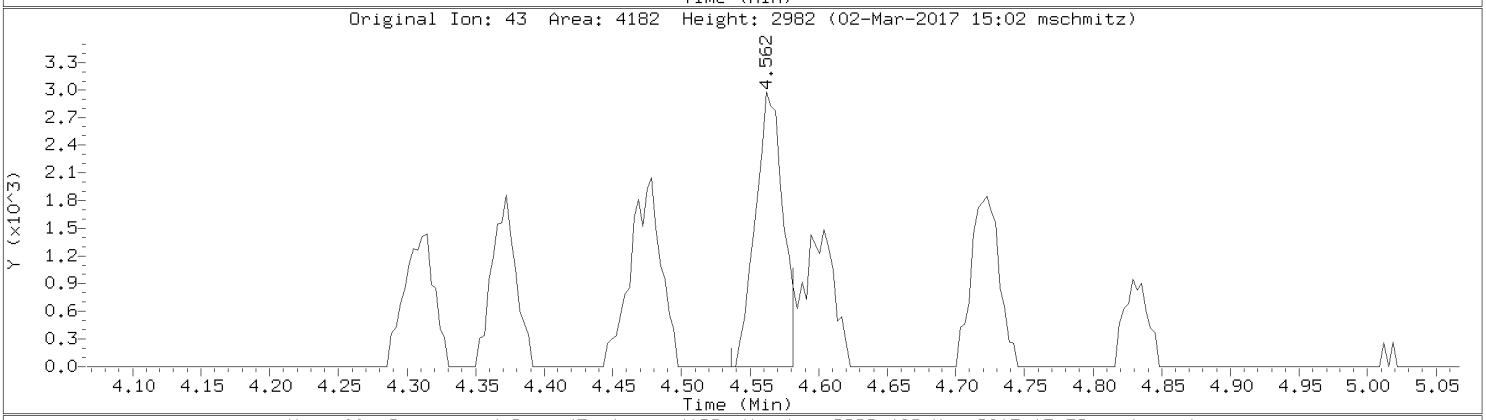


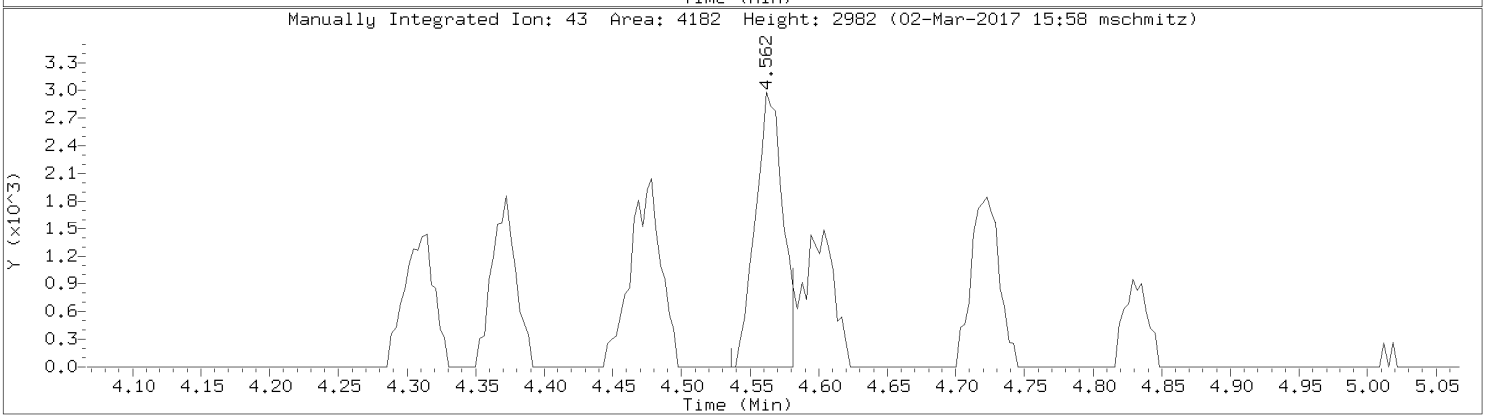
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



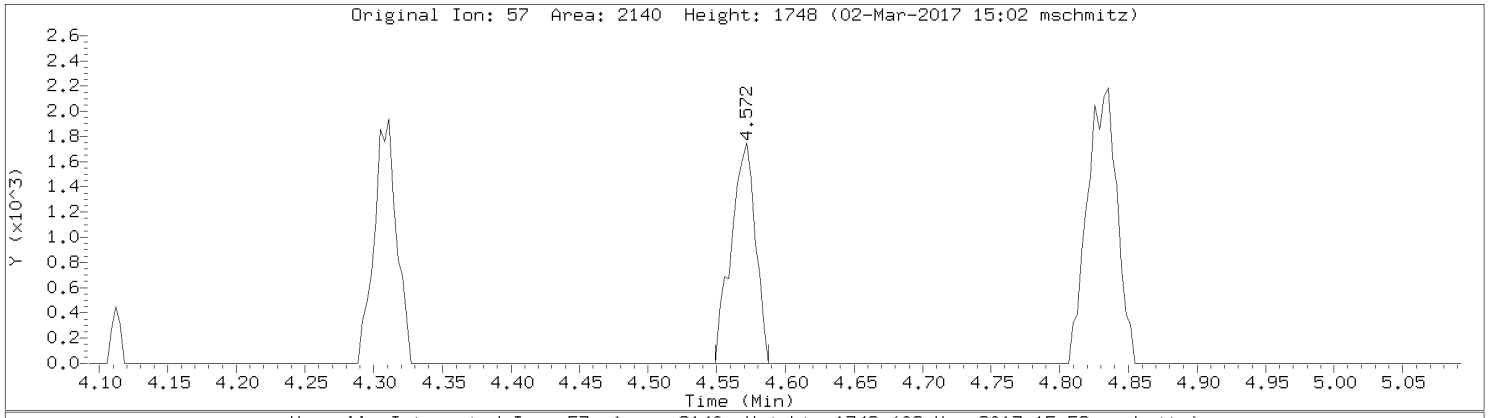


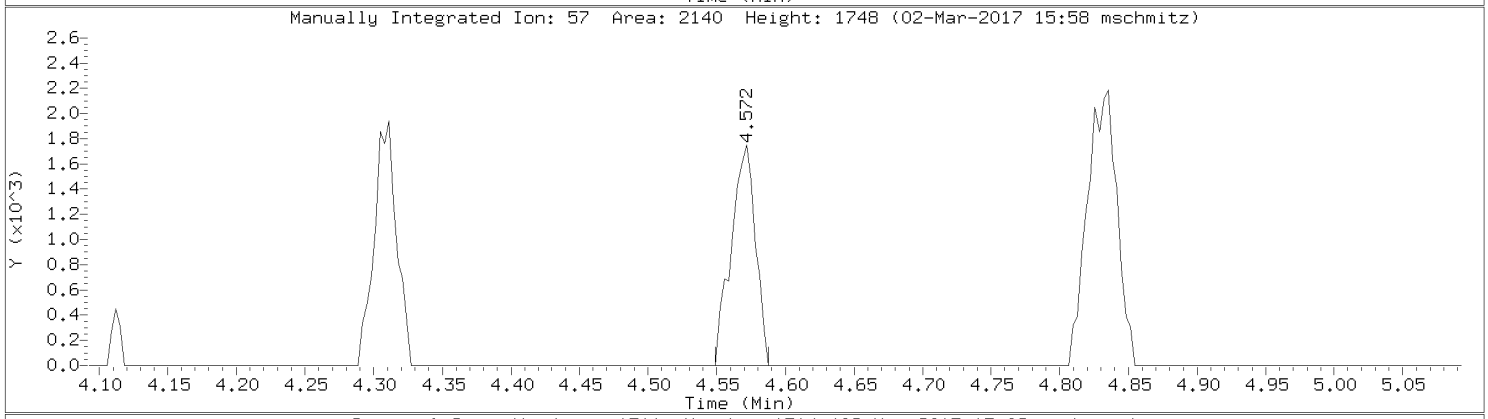


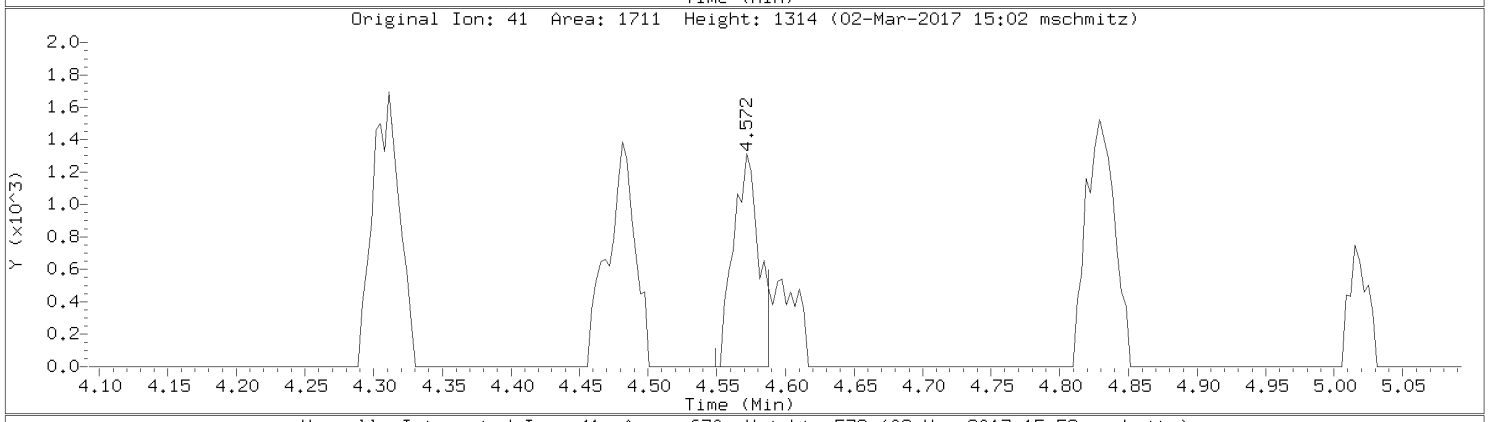


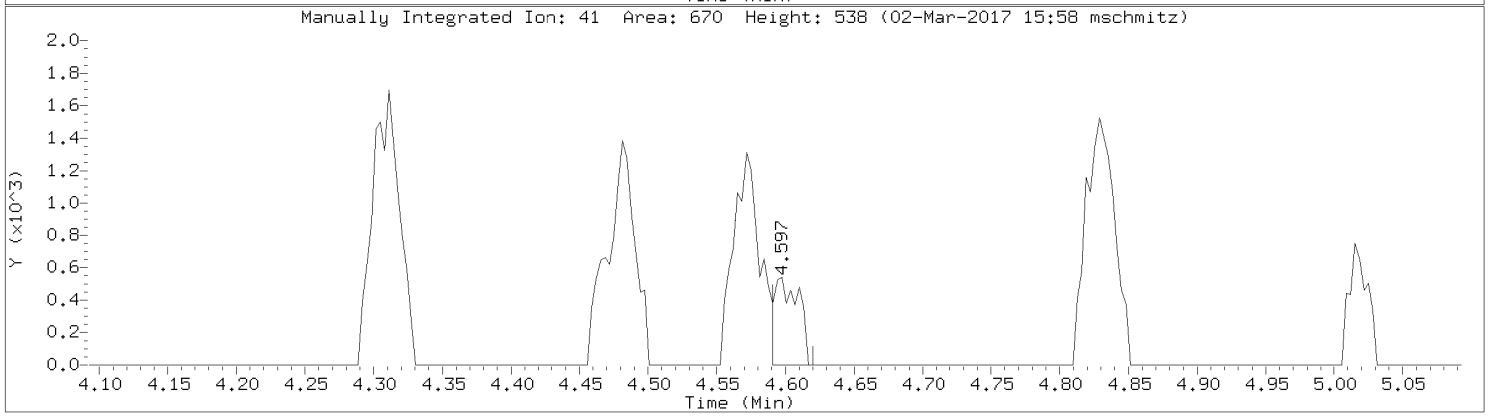
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: n-Hexane
CAS Number: 110-54-3

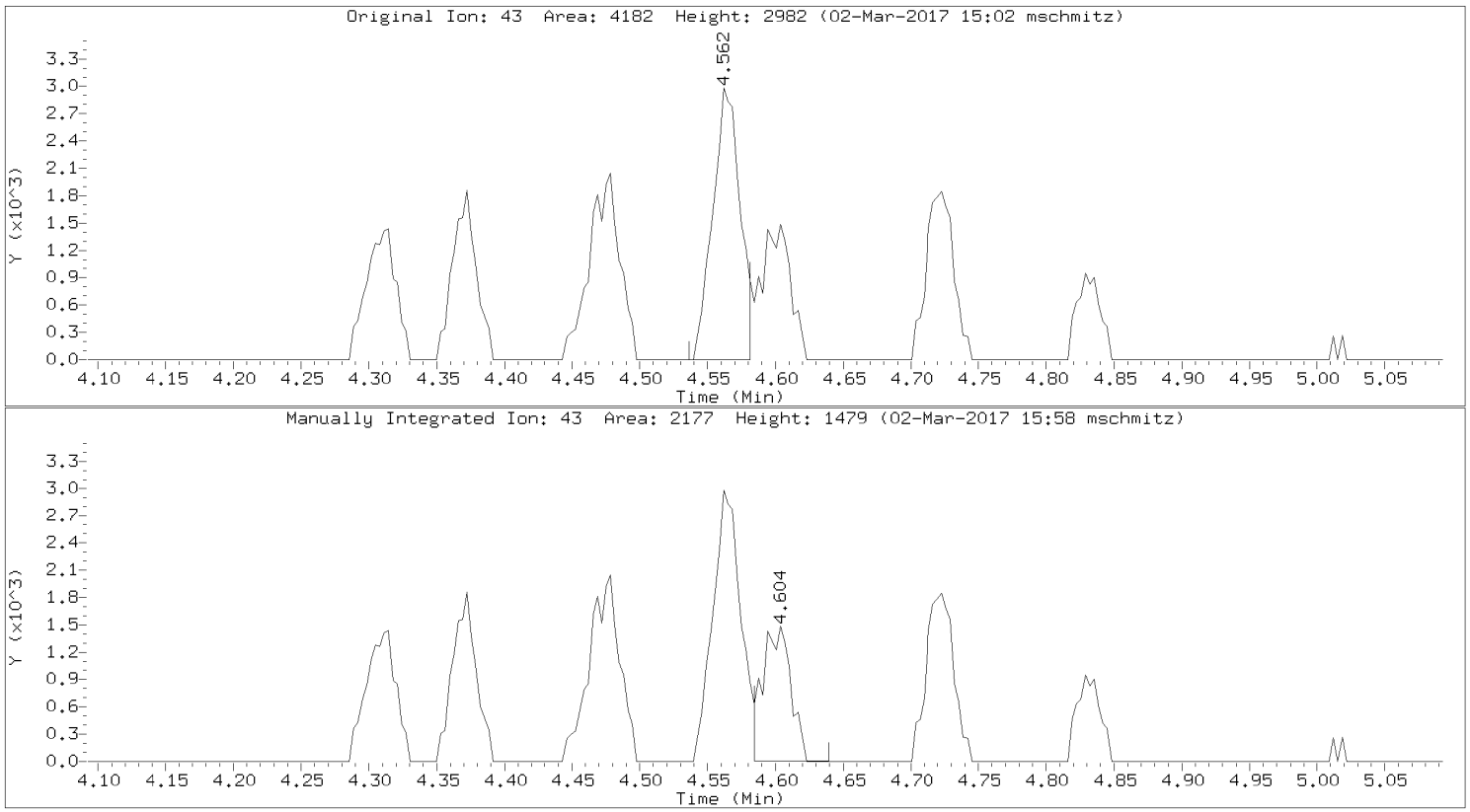






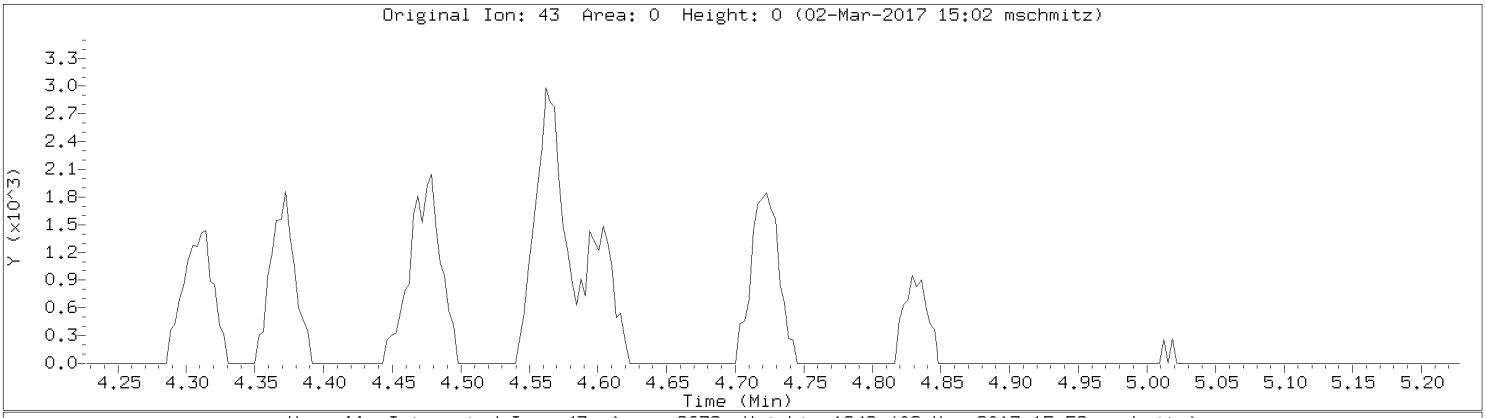


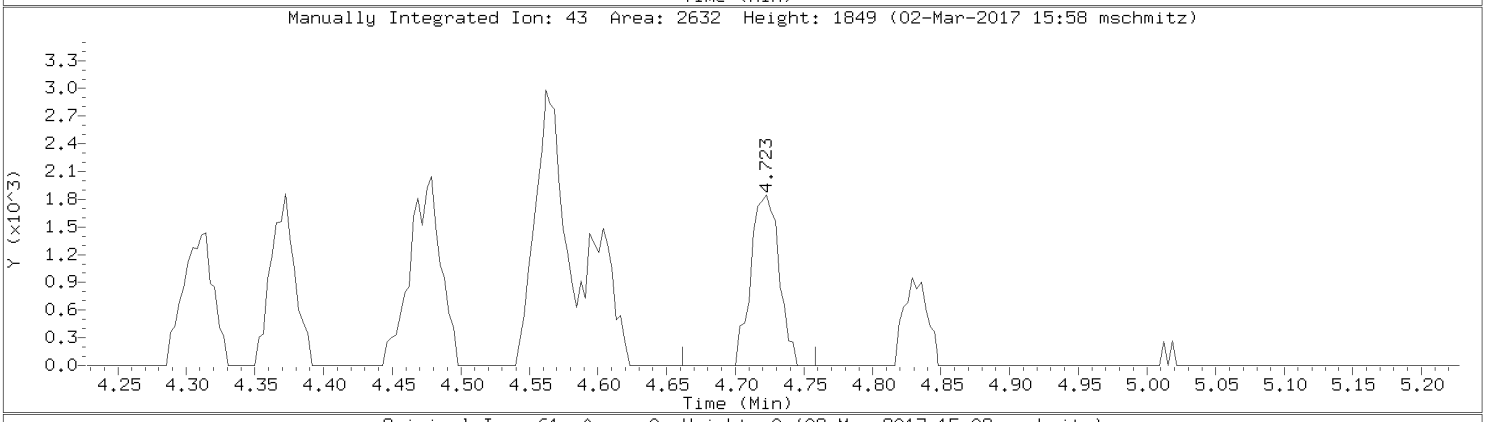
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

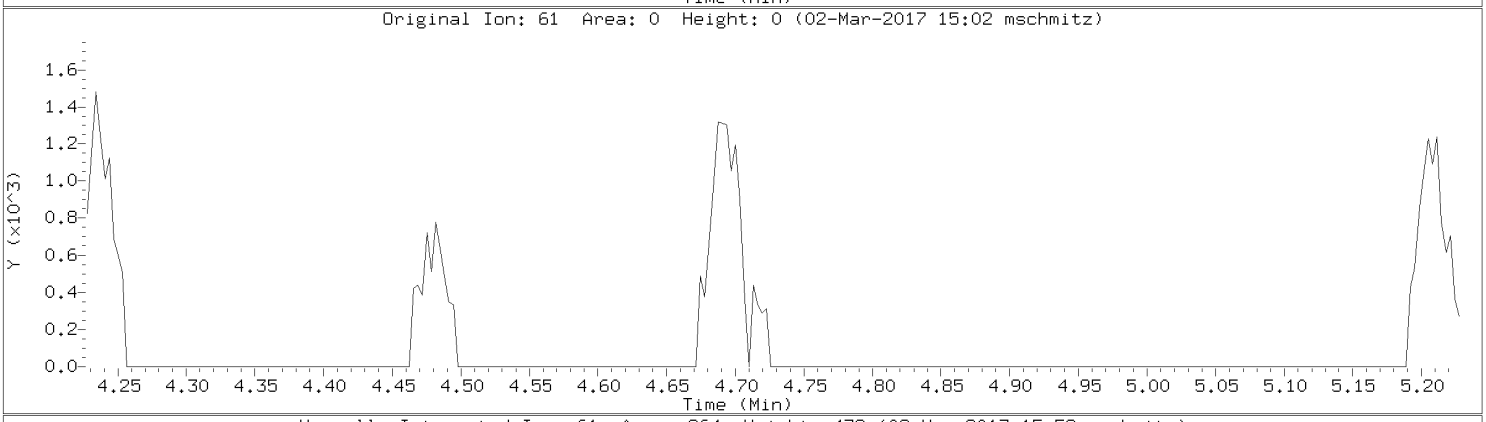


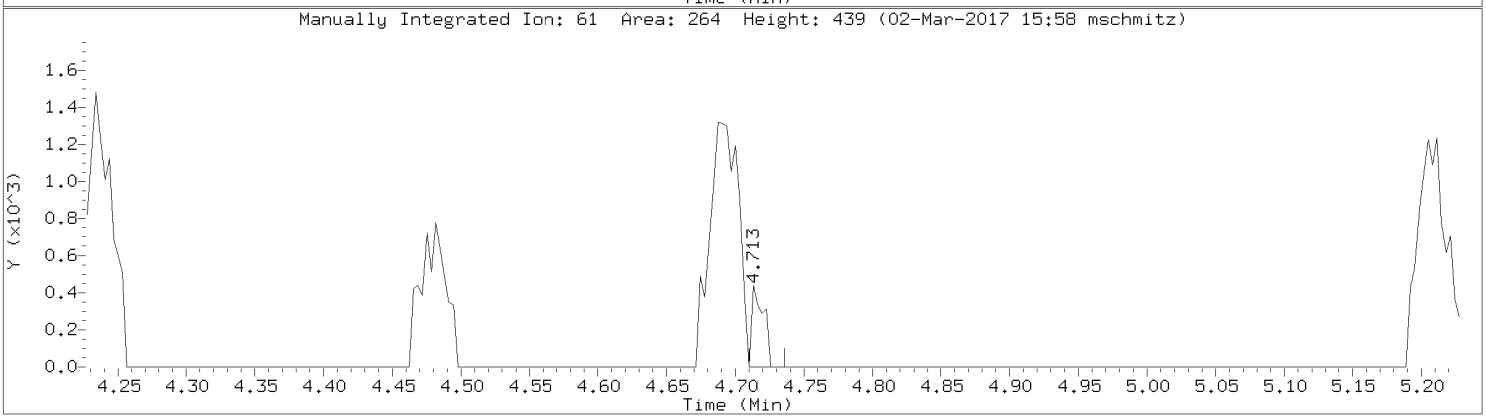
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Ethyl Acetate
CAS Number: 141-78-6

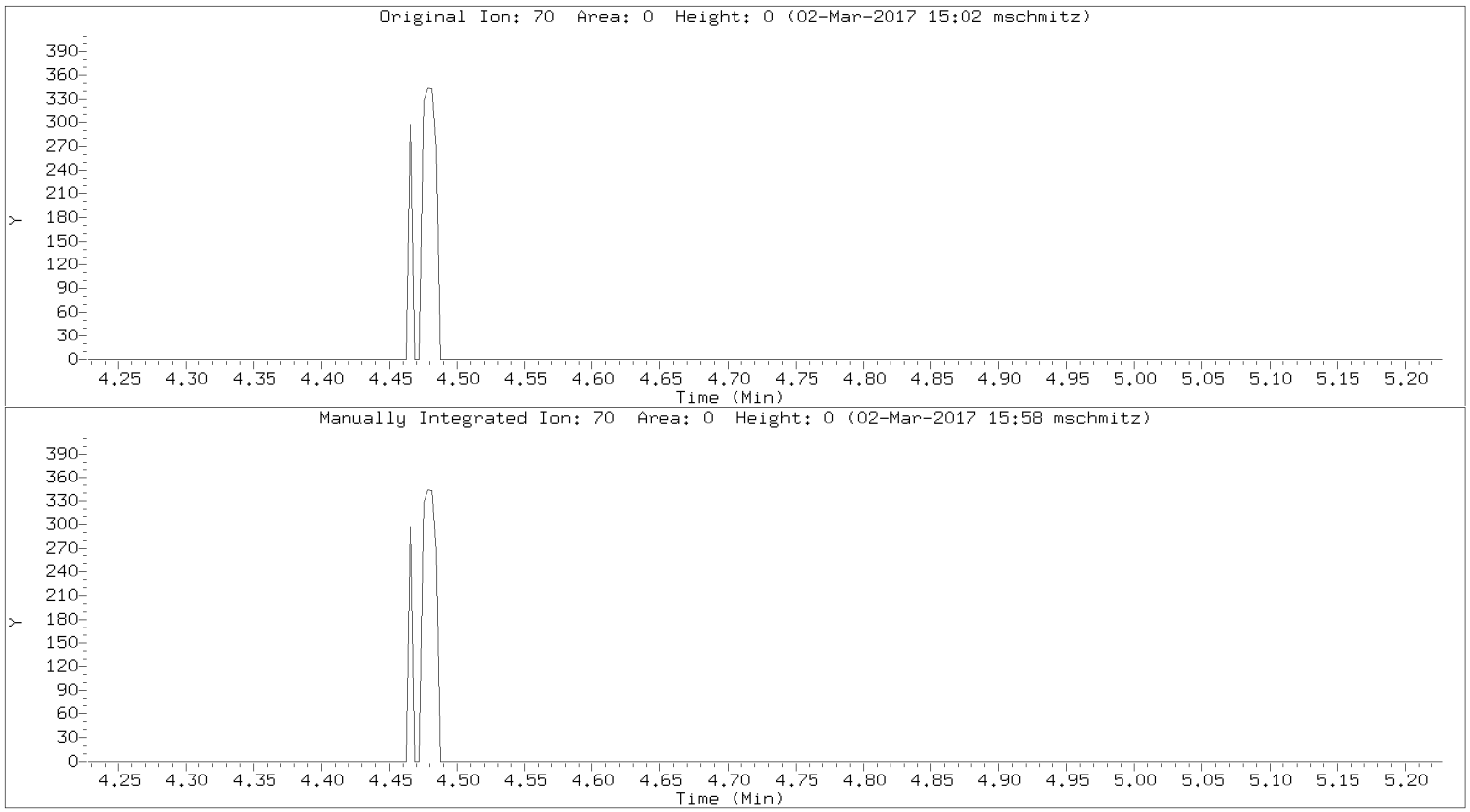






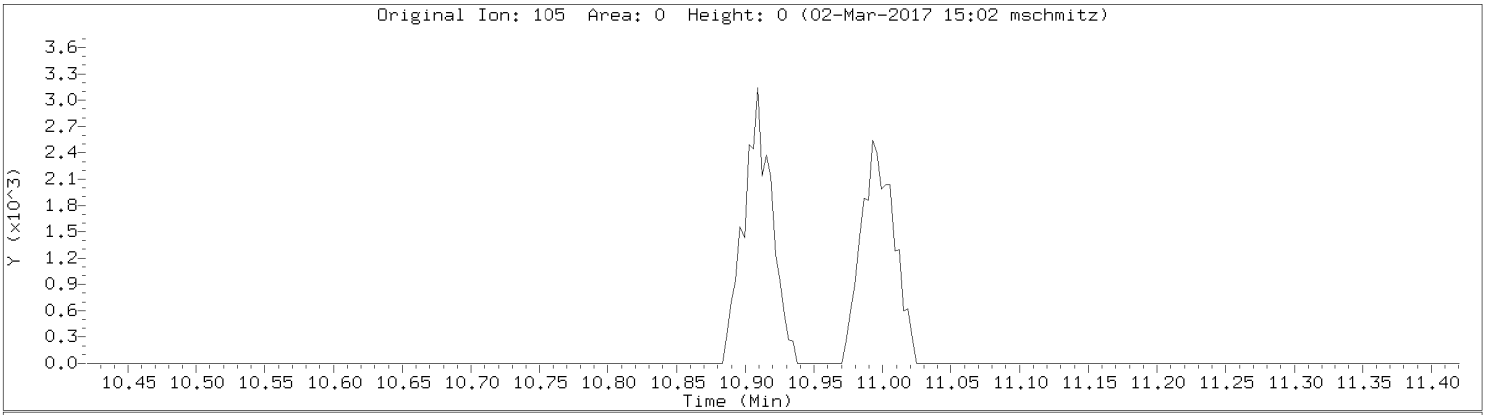


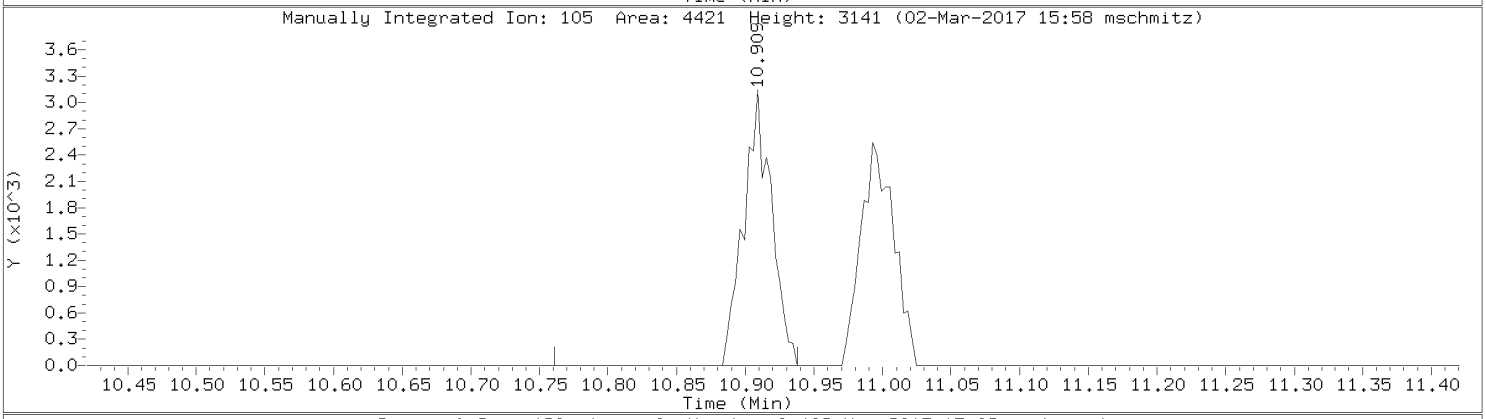
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

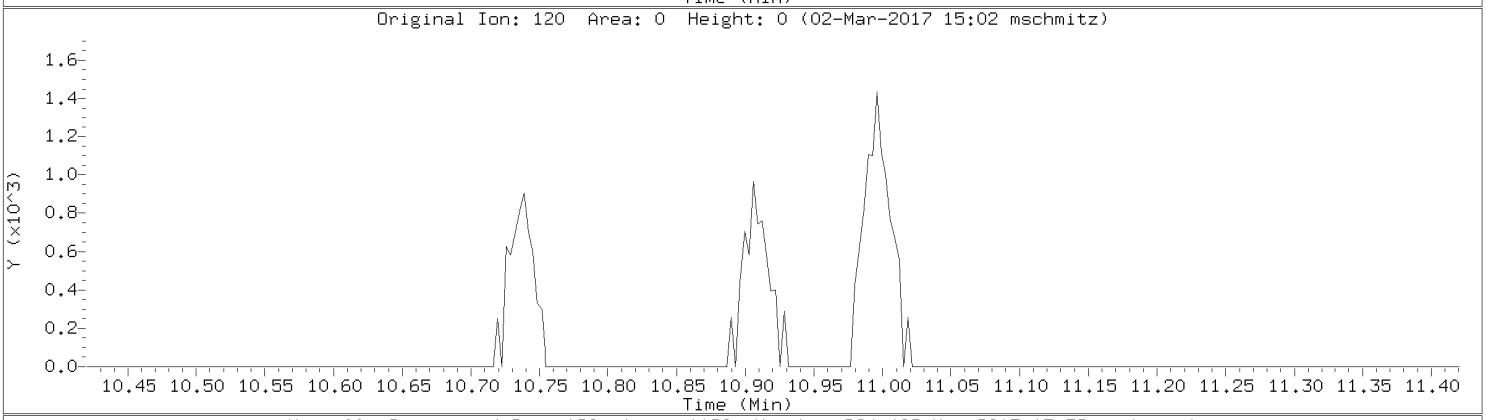


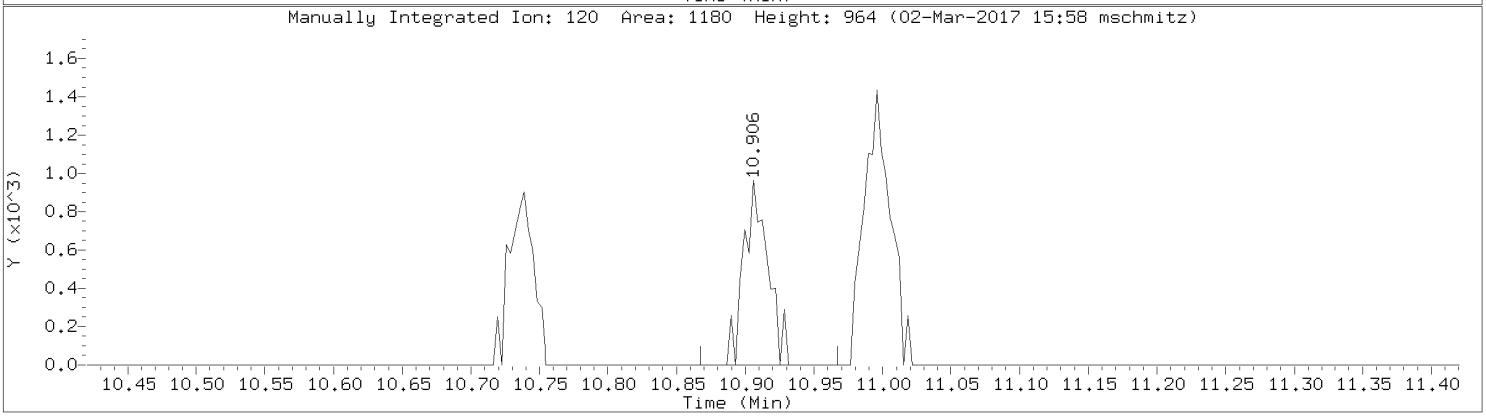
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

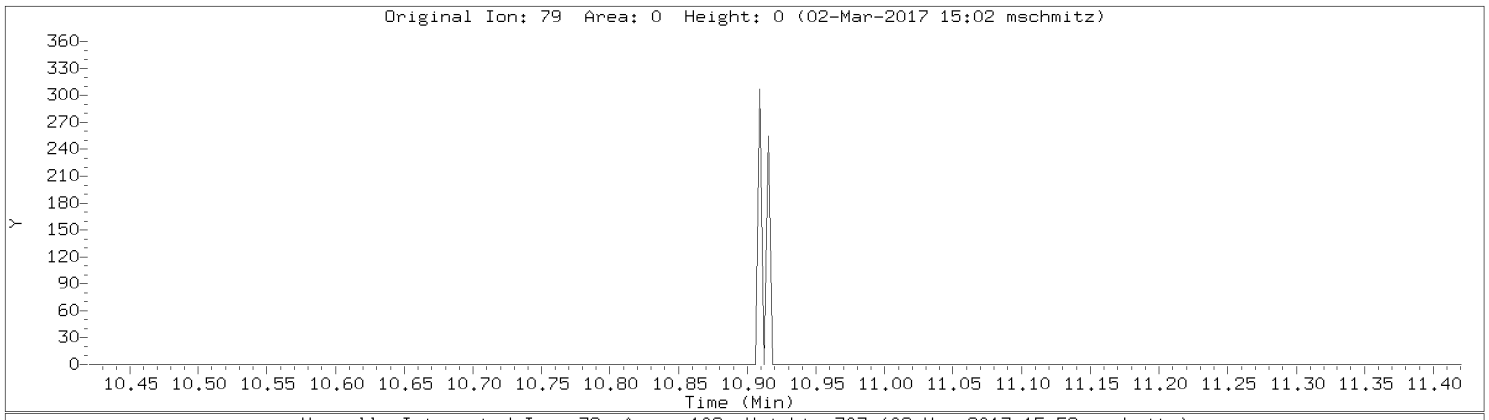


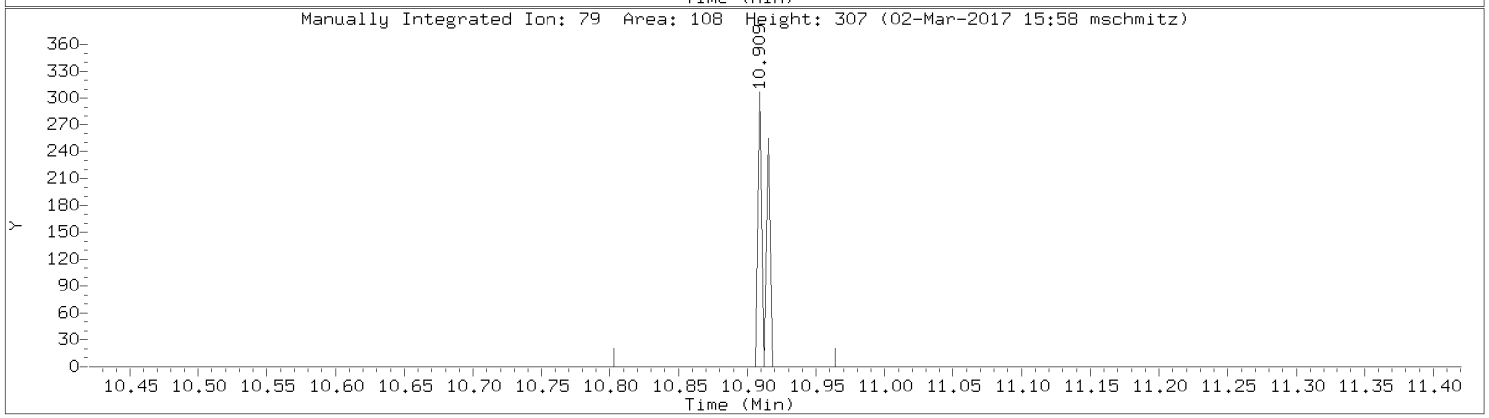






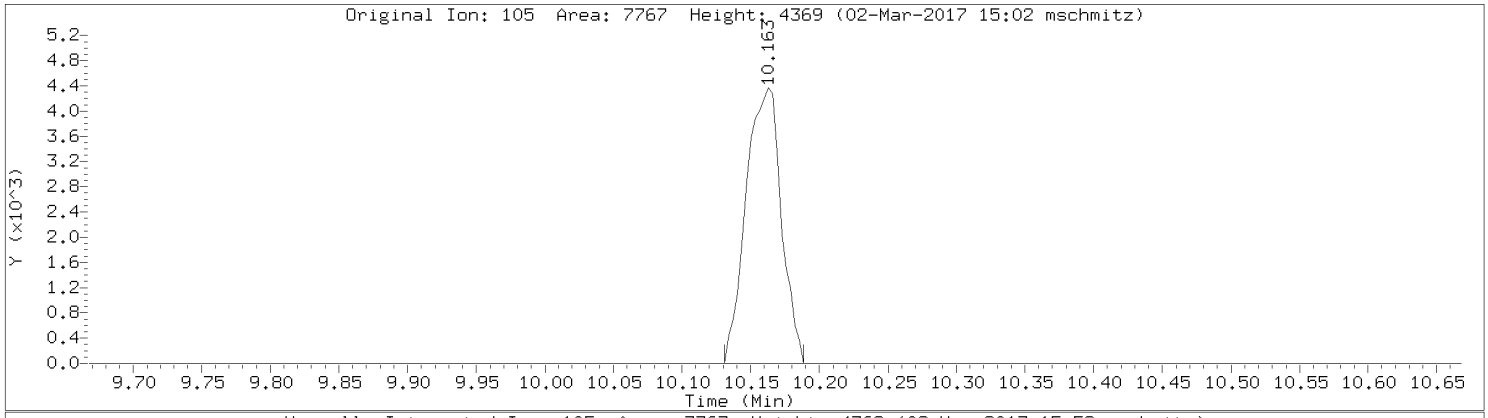
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

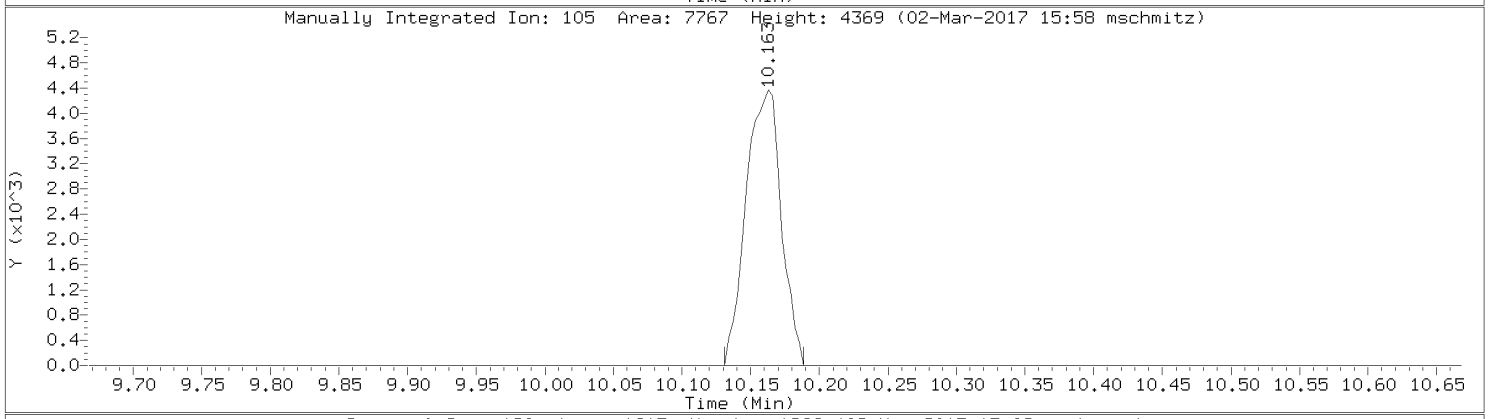


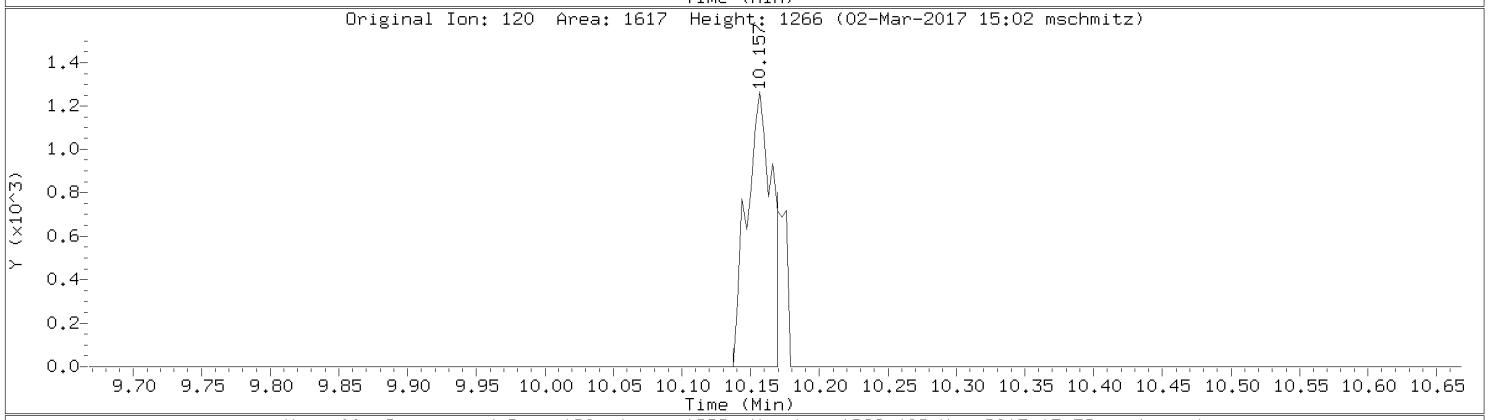


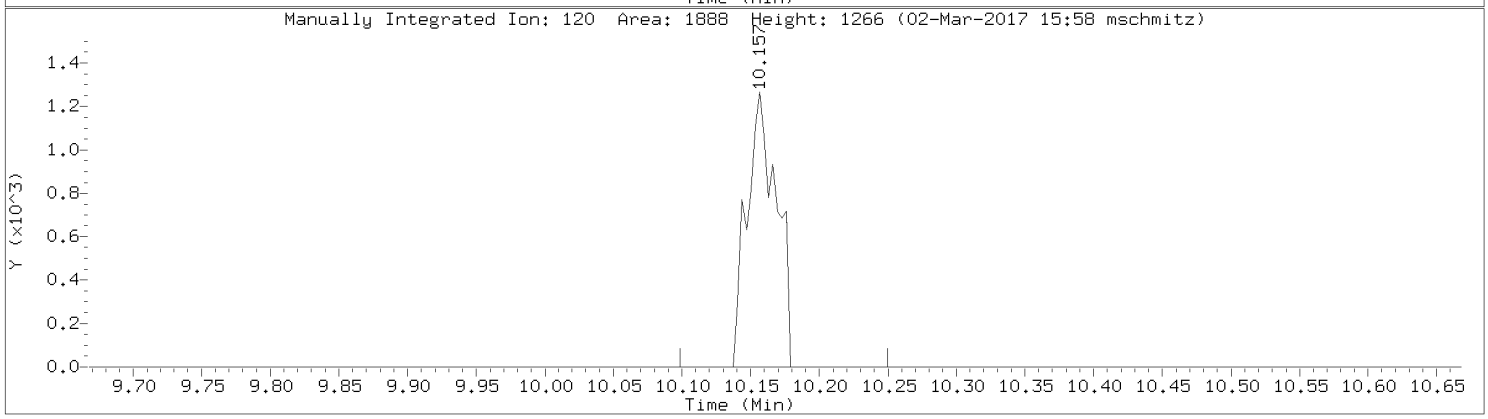
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Isopropylbenzene
CAS Number:



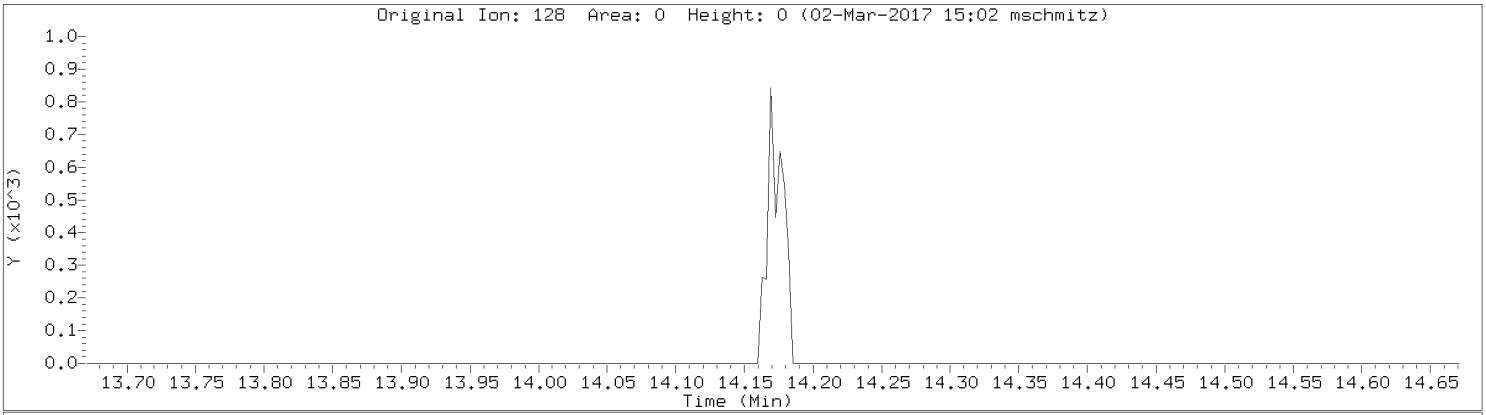


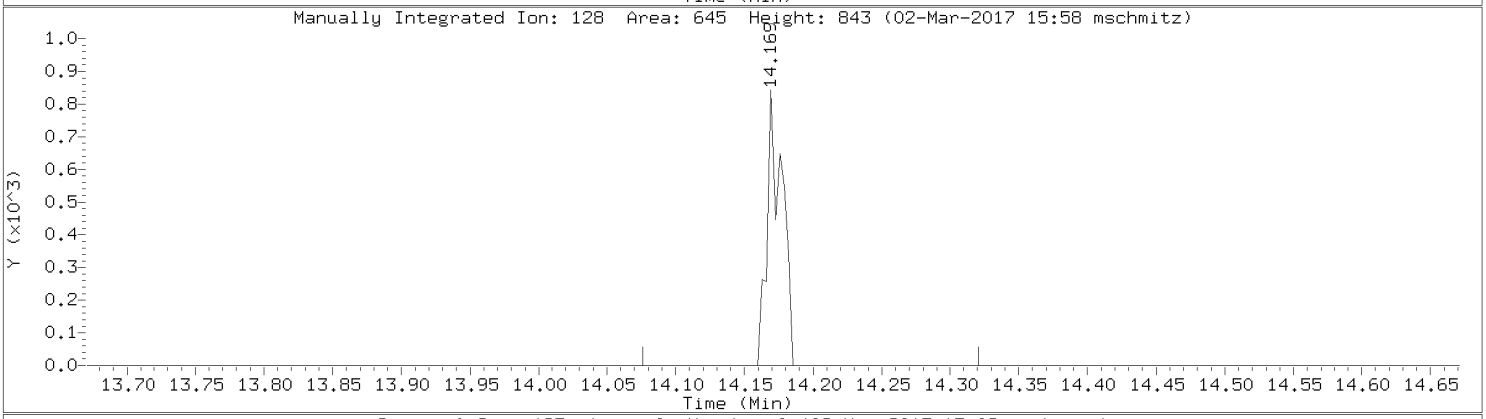


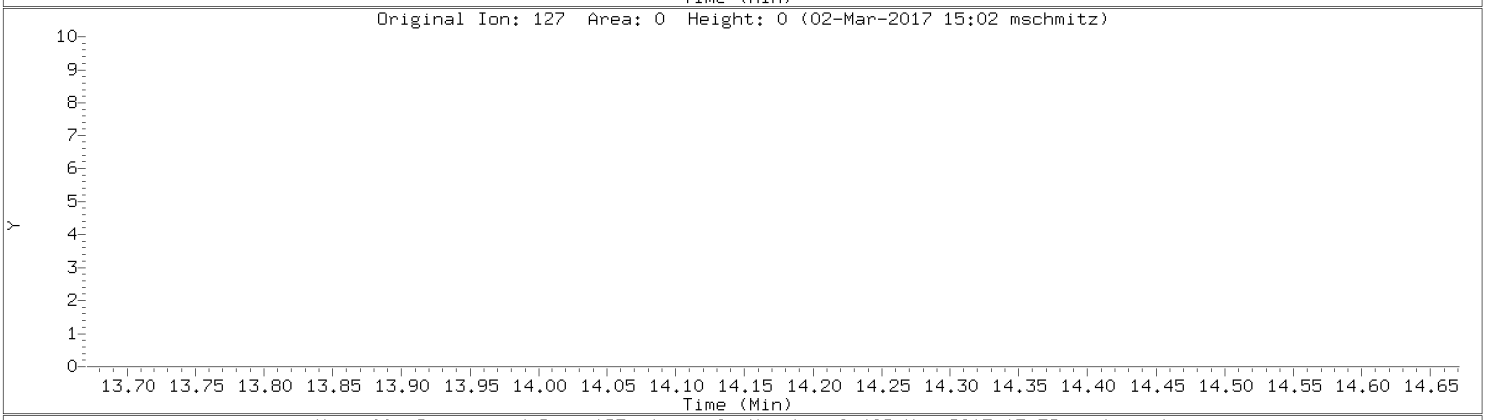


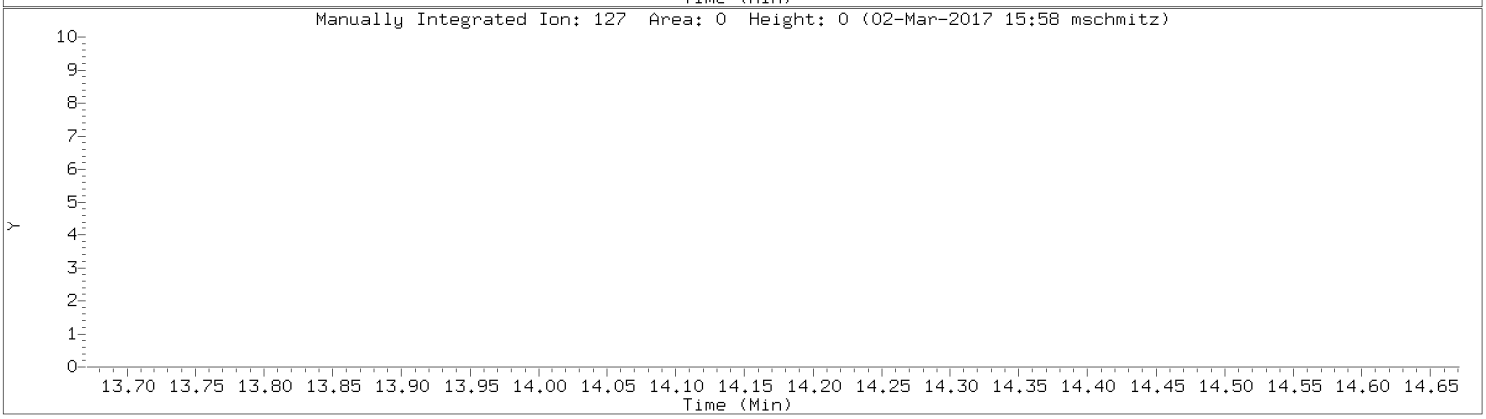
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Naphthalene
CAS Number: 91-20-3



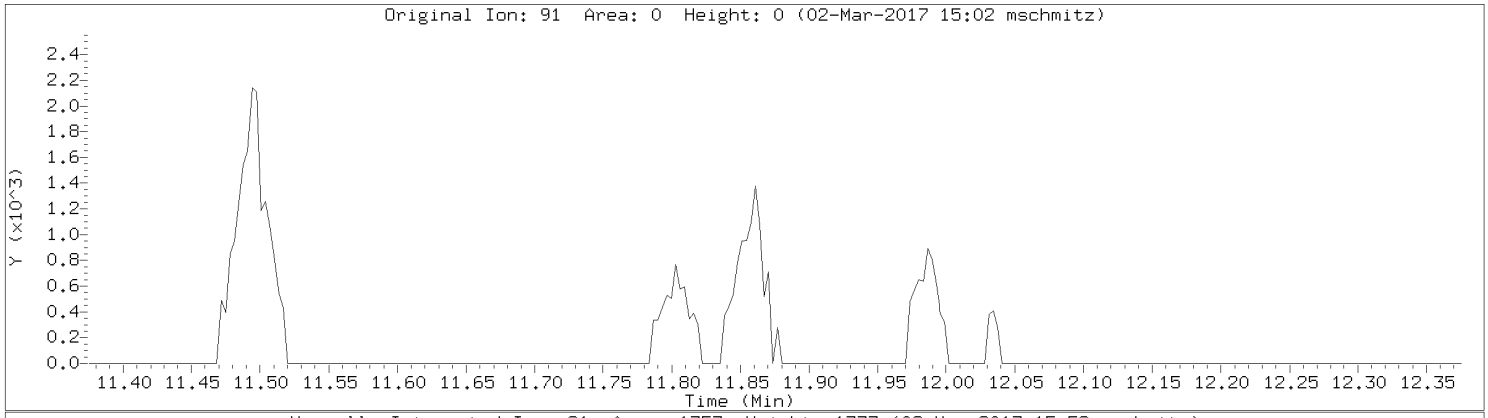


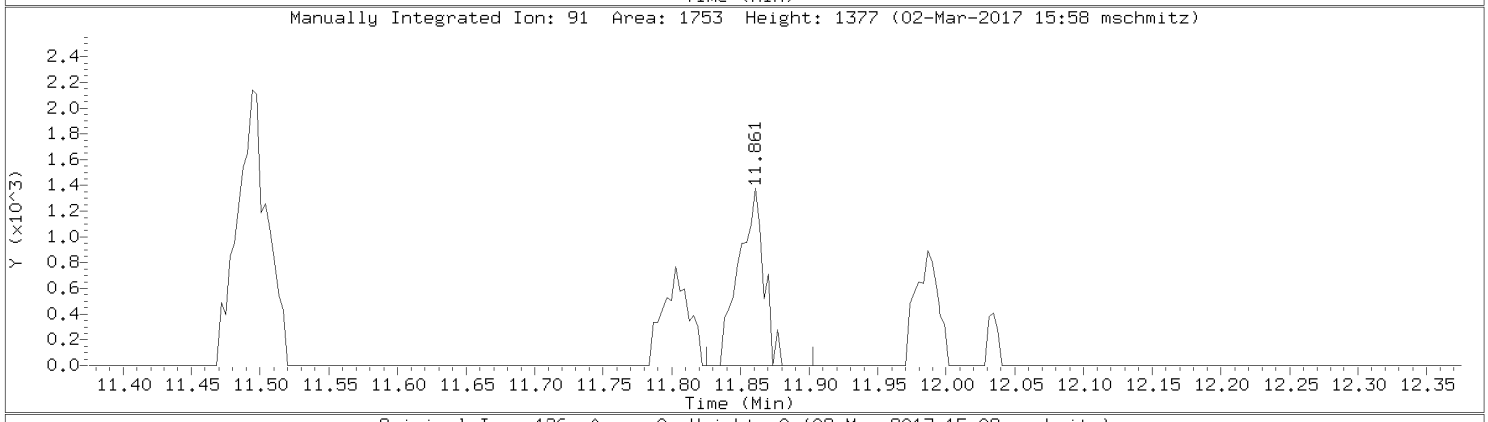


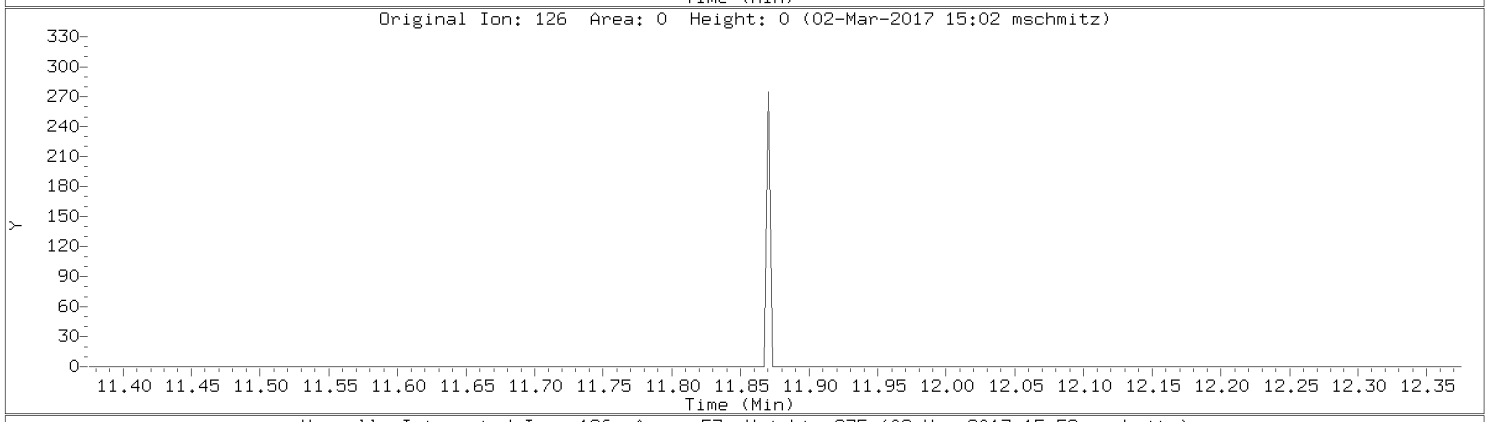


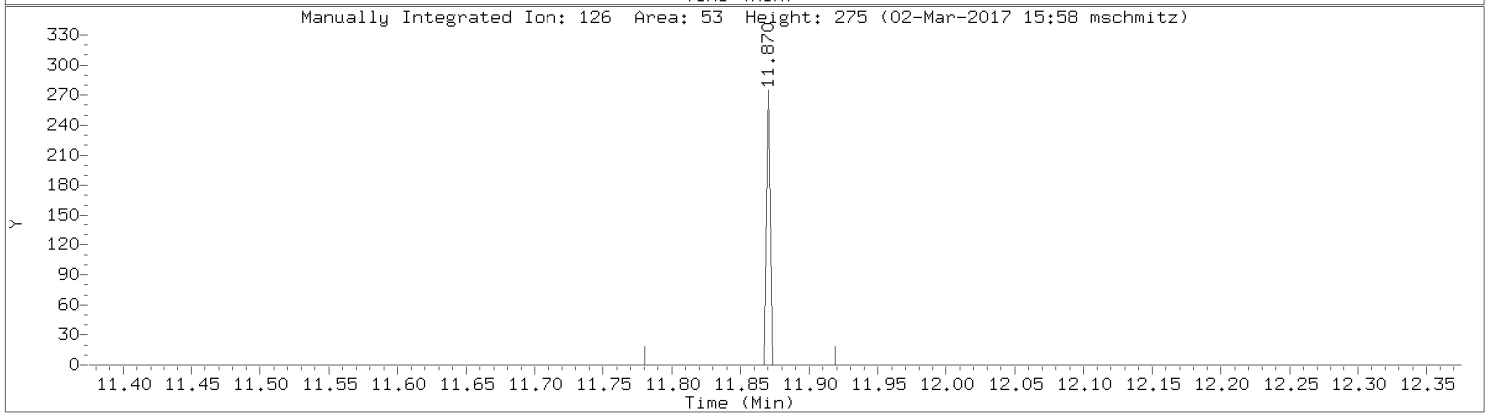
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Benzyl Chloride
CAS Number: 100-44-7



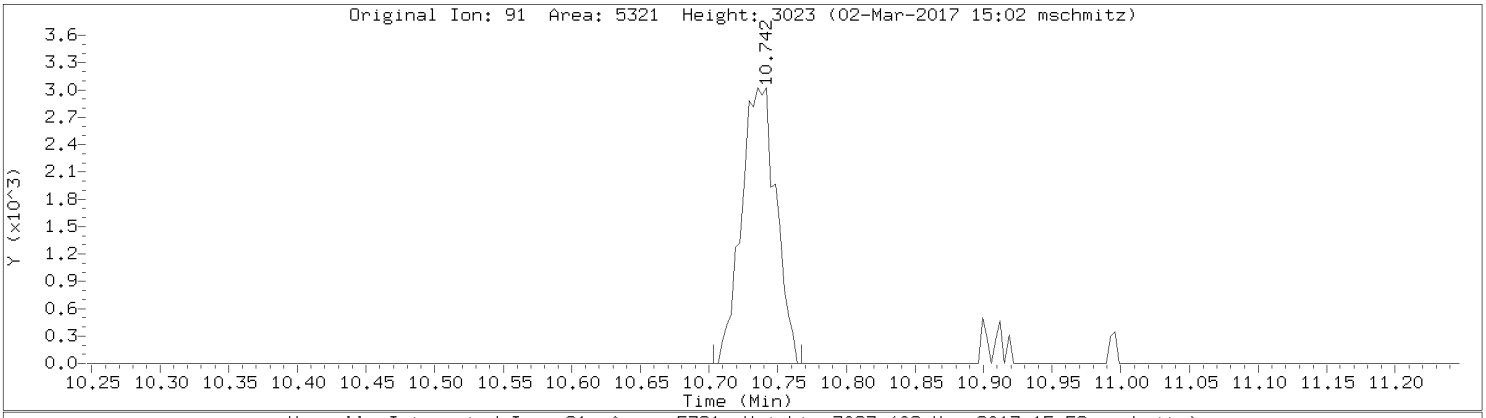


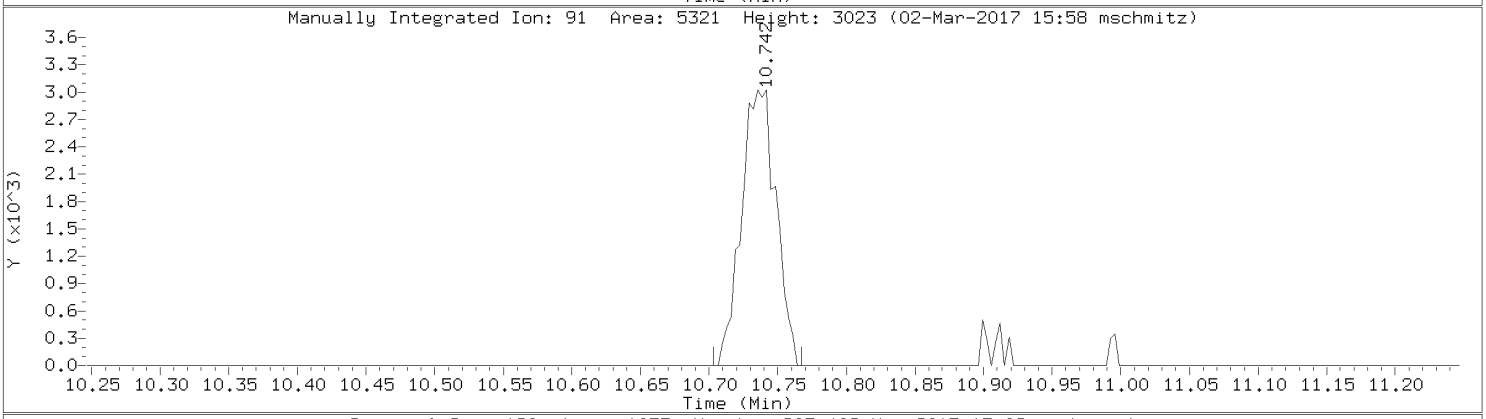


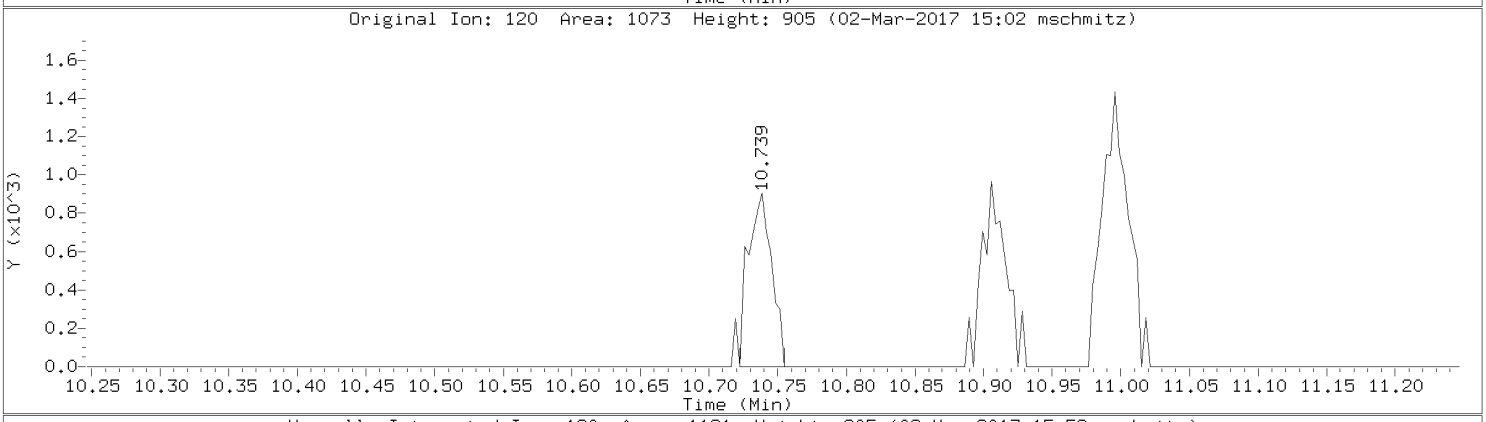


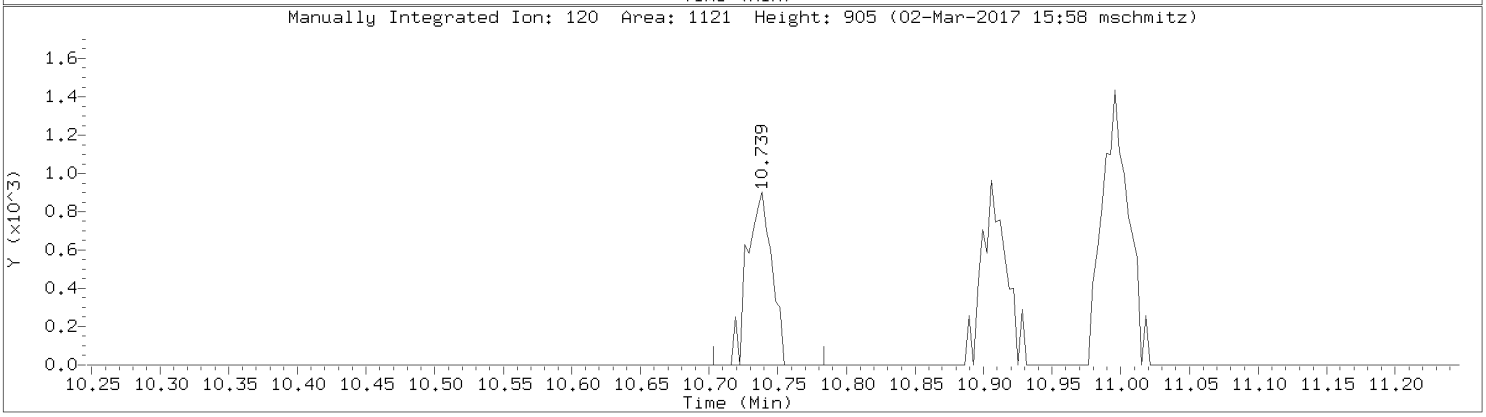
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: N-Propylbenzene
CAS Number: 103-65-1



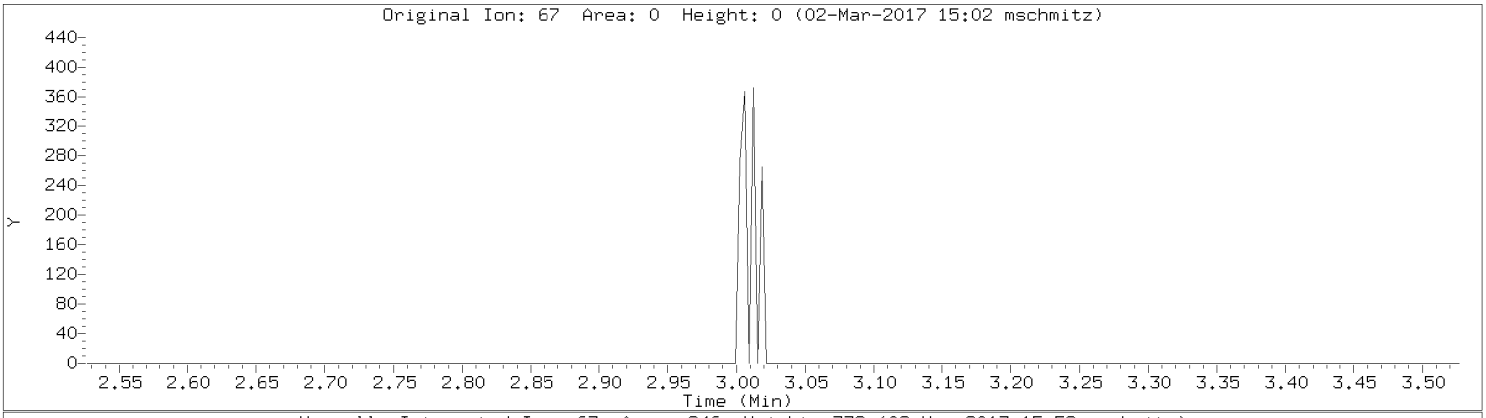


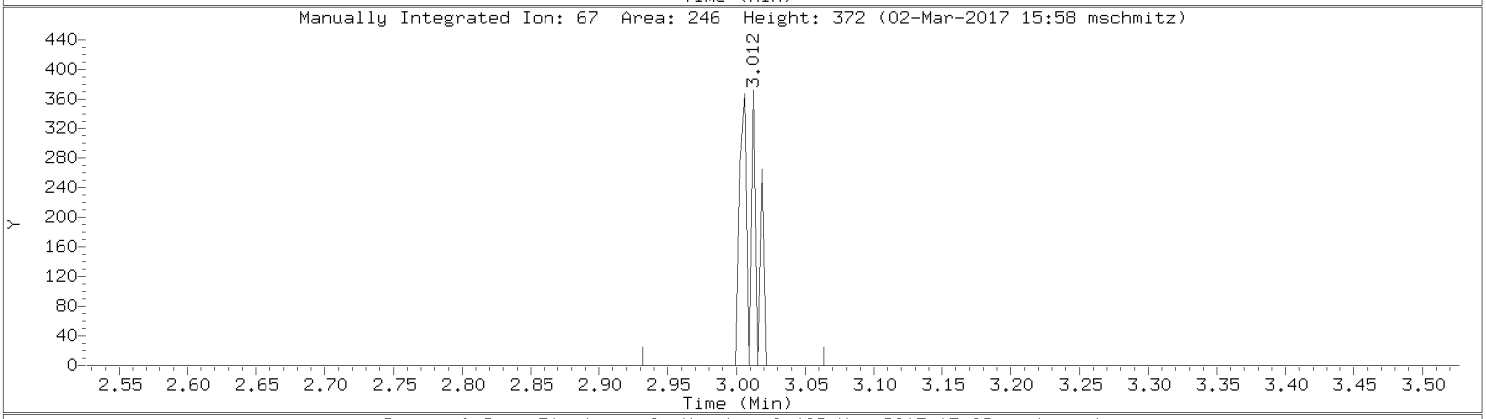


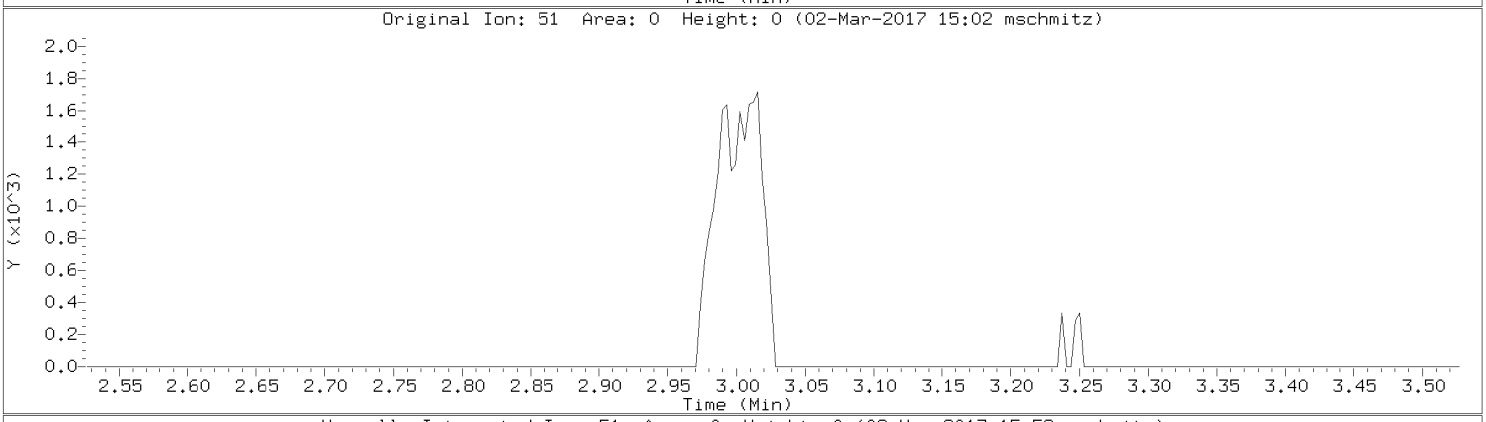


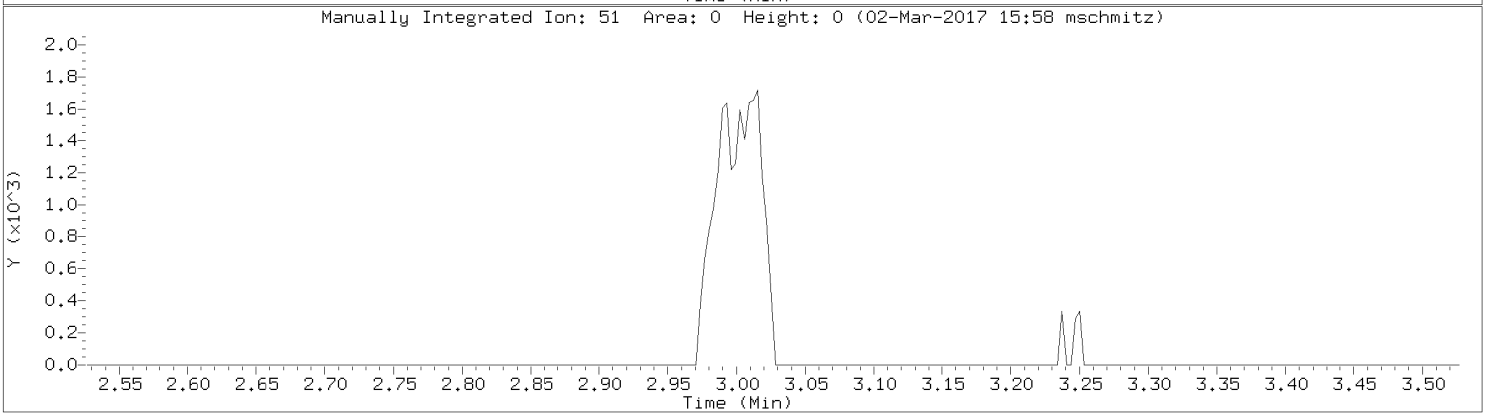
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

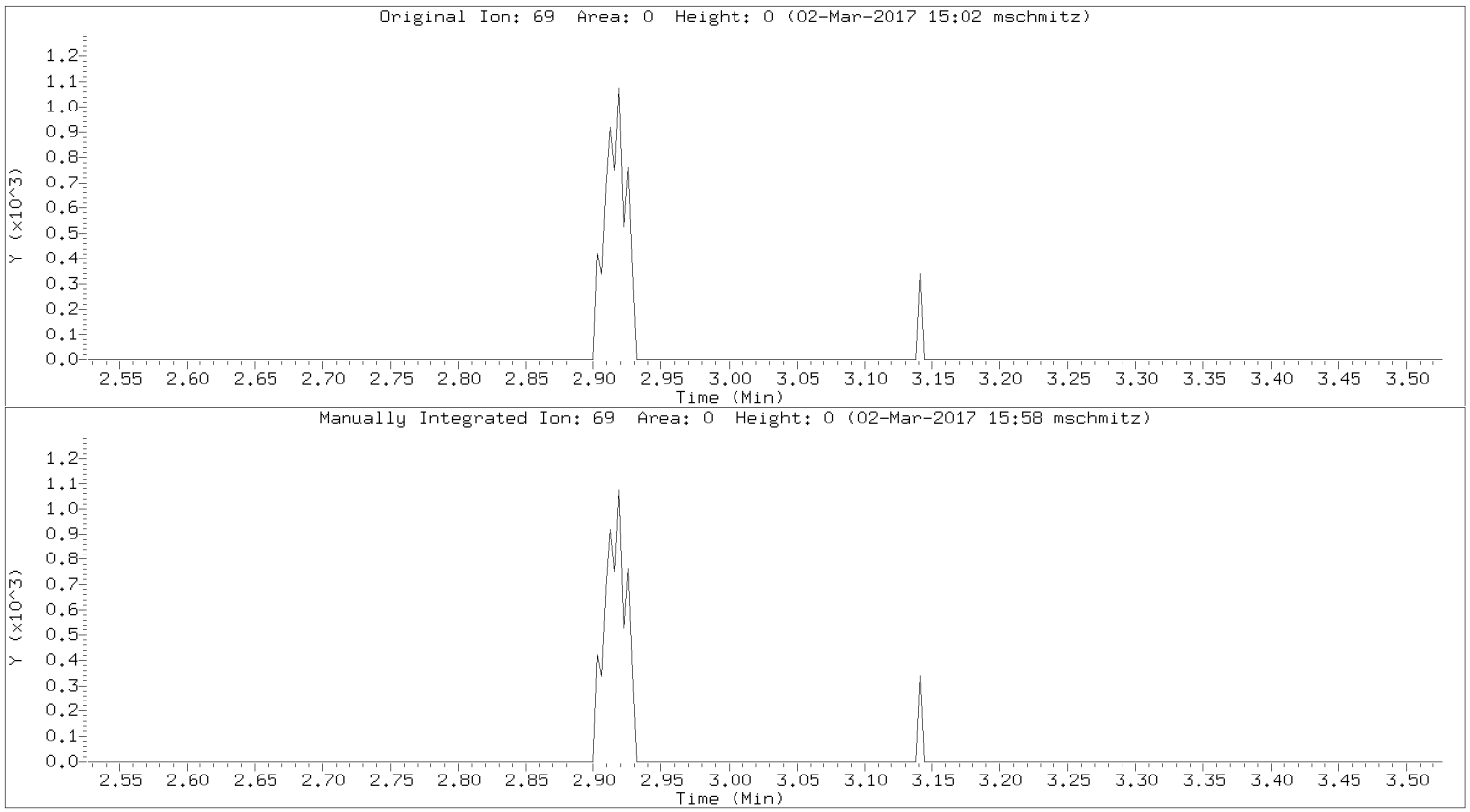






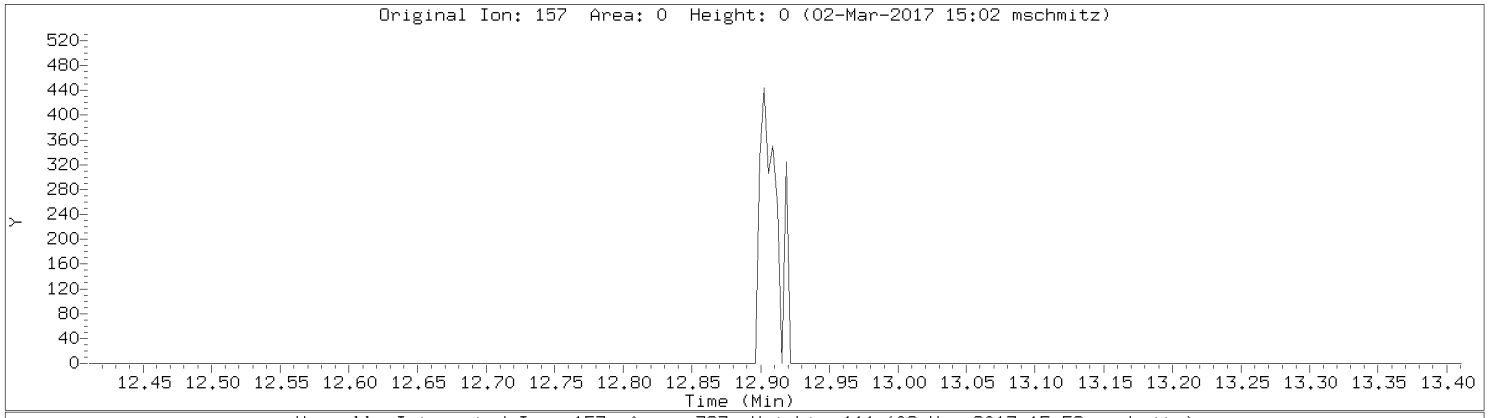


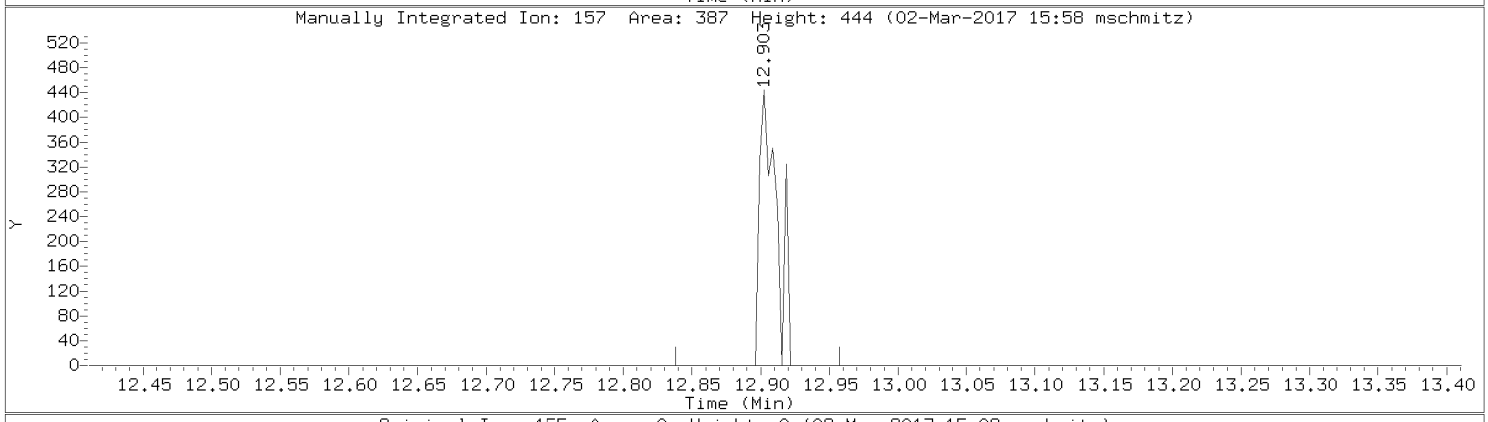
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

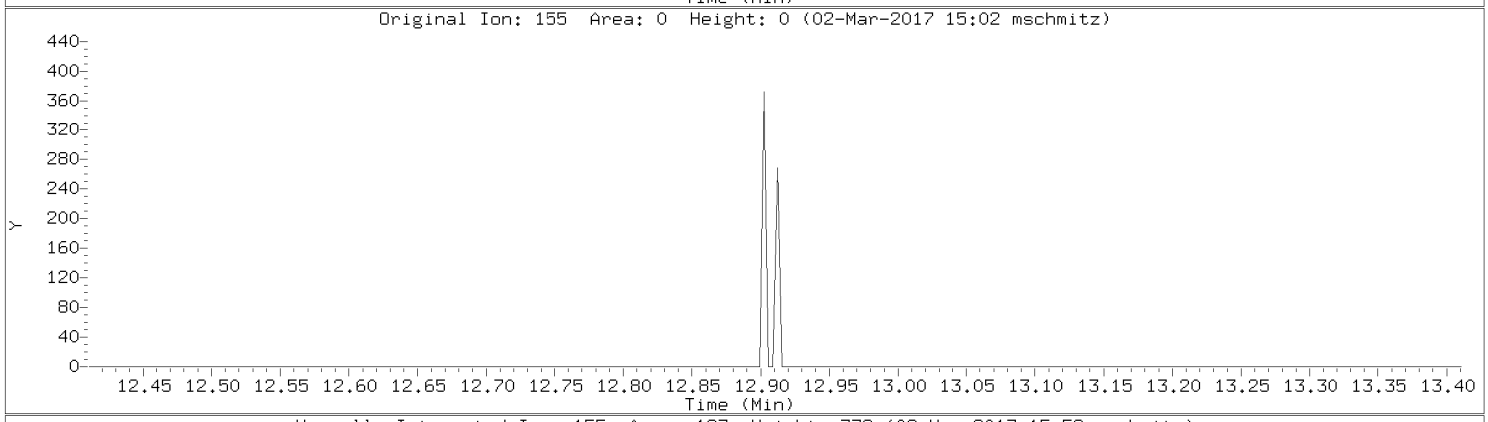


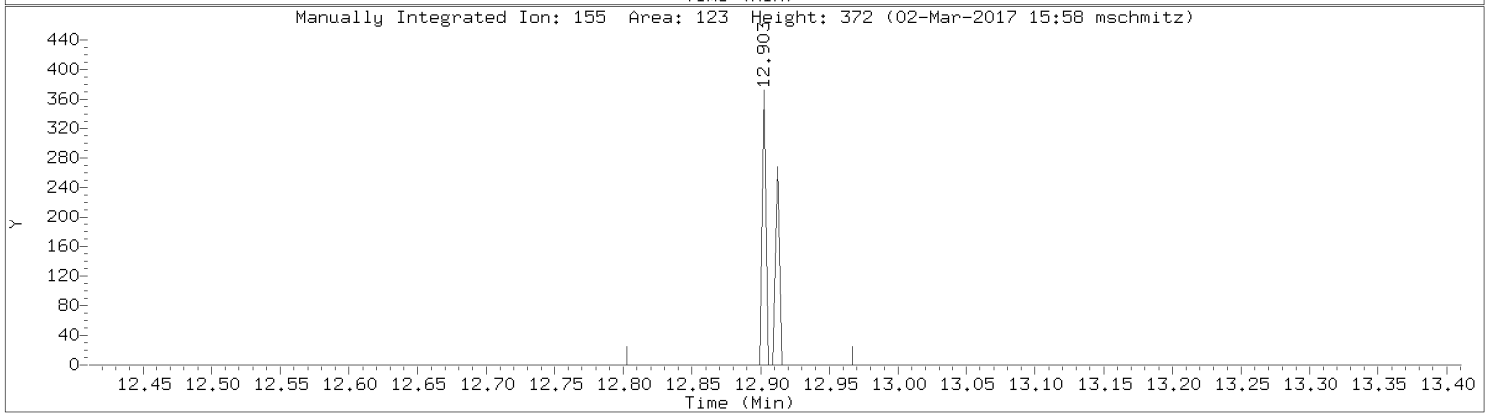
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

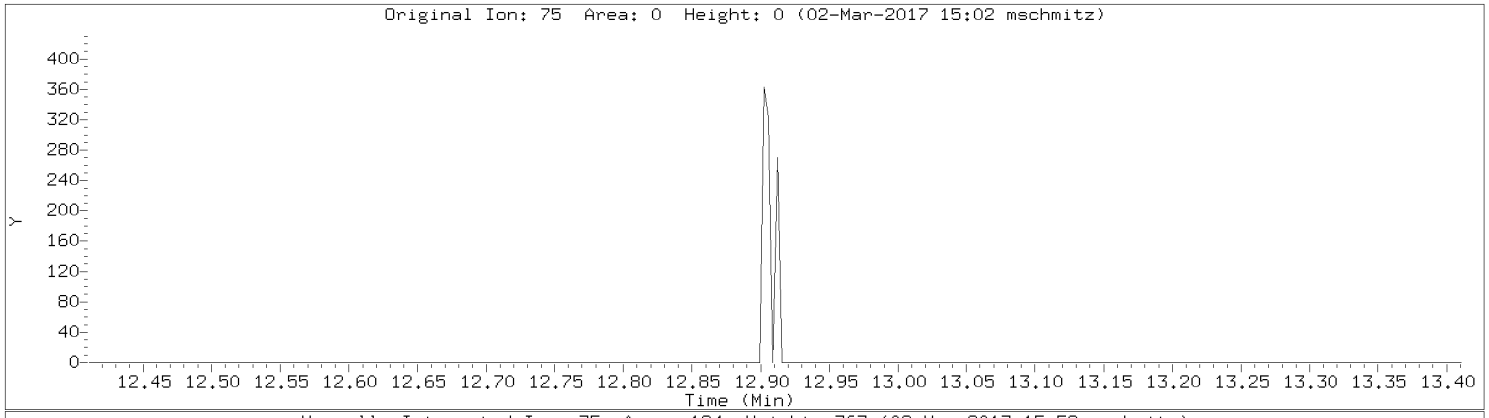


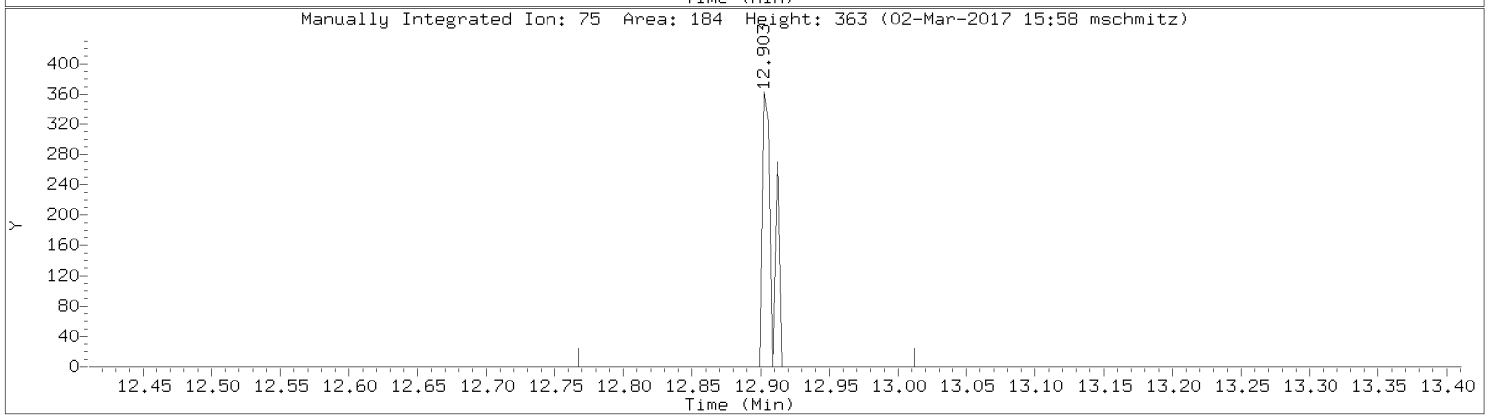






Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1





Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Lab Smp Id: cal2
Inj Date : 02-MAR-2017 11:46
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 15:59 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 11:19 Cal File: 06109.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.947	(0.527)	3252	0.20000	0.460
2	1,1-Difluoroethane	65	3.018	3.018	(0.539)	1639	0.20000	0.218(Q)
3	Chlorodifluoromethane	67	3.041	3.041	(0.543)	740	0.20000	0.164(QM)
4	Propylene	41	3.037	3.037	(0.543)	5938	0.20000	(a)
5	Dichlorodifluoromethane	85	3.066	3.066	(0.548)	9737	0.20000	0.190
6	Chloromethane	50	3.156	3.156	(0.564)	3263	0.20000	0.221
7	Dichlorotetrafluoroethane	85	3.163	3.163	(0.565)	7931	0.20000	0.223
8	Vinyl chloride	62	3.234	3.234	(0.578)	2593	0.20000	0.203
9	1,3-Butadiene	54	3.275	3.275	(0.585)	1940	0.20000	0.209(Q)
10	Bromomethane	94	3.407	3.407	(0.609)	2522	0.20000	0.214
11	Chloroethane	64	3.465	3.465	(0.619)	1360	0.20000	0.232(QM)
12	Ethanol	45	3.546	3.546	(0.633)	5189	1.00000	1.10
13	Vinyl Bromide	106	3.568	3.568	(0.638)	2764	0.20000	0.226
14	Isopentane	43	3.587	3.587	(0.641)	3504	0.20000	0.137(H)
15	Freon 123	83	3.587	3.587	(0.641)	6319	0.20000	0.388
16	Trichlorofluoromethane	101	3.658	3.658	(0.654)	8308	0.20000	0.236
17	Acrolein	56	3.671	3.671	(0.656)	1831	0.50000	0.579
18	Acetone	43	3.716	3.716	(0.664)	24228	1.00000	1.19(M)
19	Isopropyl Alcohol	45	3.767	3.767	(0.673)	23114	1.00000	1.11
20	1,1-Dichloroethene	61	3.893	3.893	(0.696)	4642	0.20000	0.227
21	Acrylonitrile	53	3.906	3.906	(0.698)	5108	0.50000	0.543
22	Freon 113	101	3.935	3.935	(0.703)	6079	0.20000	0.229
23	Methyl Acetate	43	3.951	3.951	(0.706)	7283	0.20000	0.235

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.963	3.963	(0.708)	15055	0.50000	0.564(Q)
	25 Methylene chloride	49	3.980	3.980	(0.711)	16513	1.00000	1.15
	26 Allyl Chloride	76	3.996	3.996	(0.714)	2156	0.50000	0.635(QM)
	27 Carbon Disulfide	76	4.108	4.108	(0.734)	4917	0.20000	0.182
	28 trans-1,2-dichloroethene	96	4.253	4.253	(0.760)	2141	0.20000	0.186(Q)
	29 Methyl Tert Butyl Ether	73	4.311	4.311	(0.770)	17125	0.50000	0.523
	30 Vinyl Acetate	43	4.372	4.372	(0.781)	4581	0.20000	0.316(M)
	31 1,1-Dichloroethane	63	4.381	4.381	(0.783)	4450	0.20000	0.199
$	32 Hexane-d14(S)	66	4.481	4.481	(0.801)	397064	10.0000	9.72
	33 Methyl Ethyl Ketone	72	4.558	4.558	(0.814)	1030	0.20000	0.241(QM)
	34 n-Hexane	57	4.574	4.574	(0.817)	4411	0.20000	0.215(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.822)	8461	0.20000	0.213(M)
	36 Ethyl Acetate	43	4.722	4.722	(0.844)	5346	0.20000	0.203(Q)
	37 cis-1,2-Dichloroethene	96	4.700	4.700	(0.840)	2514	0.20000	0.196
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.863)	20811	0.50000	0.501
	39 Chloroform	83	4.816	4.816	(0.860)	5081	0.20000	0.191
	40 Tetrahydrofuran	42	5.005	5.005	(0.894)	2979	0.20000	0.210
	41 1,1,1-Trichloroethane	97	5.217	5.217	(0.932)	6500	0.20000	0.208
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	5326	0.20000	0.224
	43 Benzene	78	5.452	5.452	(0.974)	8372	0.20000	0.202
	44 Carbon tetrachloride	117	5.475	5.475	(0.978)	6316	0.20000	0.202
	45 Cyclohexane	56	5.478	5.478	(0.979)	4269	0.20000	0.206
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(1.001)	20967	0.20000	0.222
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1283793	10.0000	
	48 2,2,4-Trimethylpentane	57	5.758	5.758	(1.029)	34058	0.50000	0.531
	49 Heptane	43	5.877	5.877	(1.050)	4704	0.20000	0.203
	50 1,2-Dichloropropane	63	5.951	5.951	(1.063)	3190	0.20000	0.213
	51 Trichloroethene	130	5.973	5.973	(1.067)	4574	0.20000	0.212
	52 Methyl methacrylate	69	6.050	6.050	(1.081)	2943	0.20000	0.210
	53 1,4-Dioxane	88	6.089	6.089	(1.088)	1944	0.20000	0.201
	54 Bromodichloromethane	83	6.070	6.070	(1.084)	6368	0.20000	0.208
	55 Methylcyclohexane	98	6.420	6.420	(1.147)	2326	0.20000	0.201(Q)
	56 Methyl Isobutyl Ketone	43	6.539	6.539	(1.168)	16711	0.50000	0.529
	57 cis-1,3-Dichloropropene	75	6.578	6.578	(1.175)	4624	0.20000	0.273
	58 trans-1,3-Dichloropropene	75	6.979	6.979	(1.247)	3360	0.20000	0.230
$	59 Toluene-d8 (S)	98	7.069	7.069	(1.263)	1213296	10.0000	10.6
	60 1,1,2-Trichloroethane	97	7.137	7.137	(1.275)	3801	0.20000	0.221
	61 Toluene	91	7.143	7.143	(1.276)	11436	0.20000	0.221
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.854)	13320	0.50000	0.469
	63 n-Octane	43	7.578	7.578	(0.877)	6028	0.20000	0.196
	64 Dibromochloromethane	129	7.671	7.671	(0.888)	5941	0.20000	0.211
	65 1,2-Dibromoethane	107	7.902	7.902	(0.915)	5784	0.20000	0.199
	66 Tetrachloroethene	166	7.976	7.976	(0.923)	7038	0.20000	0.225
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	899058	10.0000	
	68 Chlorobenzene	112	8.684	8.684	(1.005)	8865	0.20000	0.199
	69 Ethyl Benzene	91	8.928	8.928	(1.033)	12470	0.20000	0.189
	70 m&p-Xylene	91	9.076	9.076	(1.051)	20159	0.40000	0.388(M)
	71 n-Nonane	43	9.465	9.465	(1.096)	4537	0.20000	0.169
	72 Bromoform	173	9.471	9.471	(1.096)	3665	0.20000	0.270
	73 Styrene	104	9.500	9.500	(1.100)	6483	0.20000	0.219(M)
	74 o-Xylene	91	9.568	9.568	(1.108)	10001	0.20000	0.189
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	5378	0.20000	0.185
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	15207	0.20000	0.203(M)
	77 N-Propylbenzene	91	10.735	10.735	(1.243)	12256	0.20000	0.170

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	10605	0.20000	0.232(M)
79	1,3,5-Trimethylbenzene	105	10.995	10.995	(1.273)	9860	0.20000	0.174
80	n-Decane	57	11.378	11.378	(2.033)	3858	0.20000	0.352
81	Tert-Butyl Benzene	119	11.497	11.497	(1.331)	11017	0.20000	0.185
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	9813	0.20000	0.184
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.365)	6190	0.20000	0.153
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	13440	0.20000	0.180
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.372)	427230	10.0000	8.63
86	Benzyl Chloride	91	11.860	11.860	(1.373)	3597	0.20000	0.380(M)
87	1,4-Dichlorobenzene	146	11.880	11.880	(1.375)	6332	0.20000	0.181(Q)
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	11000	0.20000	0.150(M)
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	9180	0.20000	0.174
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	5537	0.20000	0.235
91	N-Butylbenzene	91	12.462	12.462	(1.443)	7061	0.20000	0.106
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.494)	957	0.20000	0.261(Q)
93	1,2,4-Trichlorobenzene	180	14.047	14.047	(1.626)	513	0.20000	0.411(QM)
94	Naphthalene	128	14.175	14.175	(1.641)	1944	0.20000	0.392(M)
95	Hexachlorobutadiene	225	14.416	14.416	(1.669)	2904	0.20000	0.186

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06110.D
Lab Smp Id: cal2
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

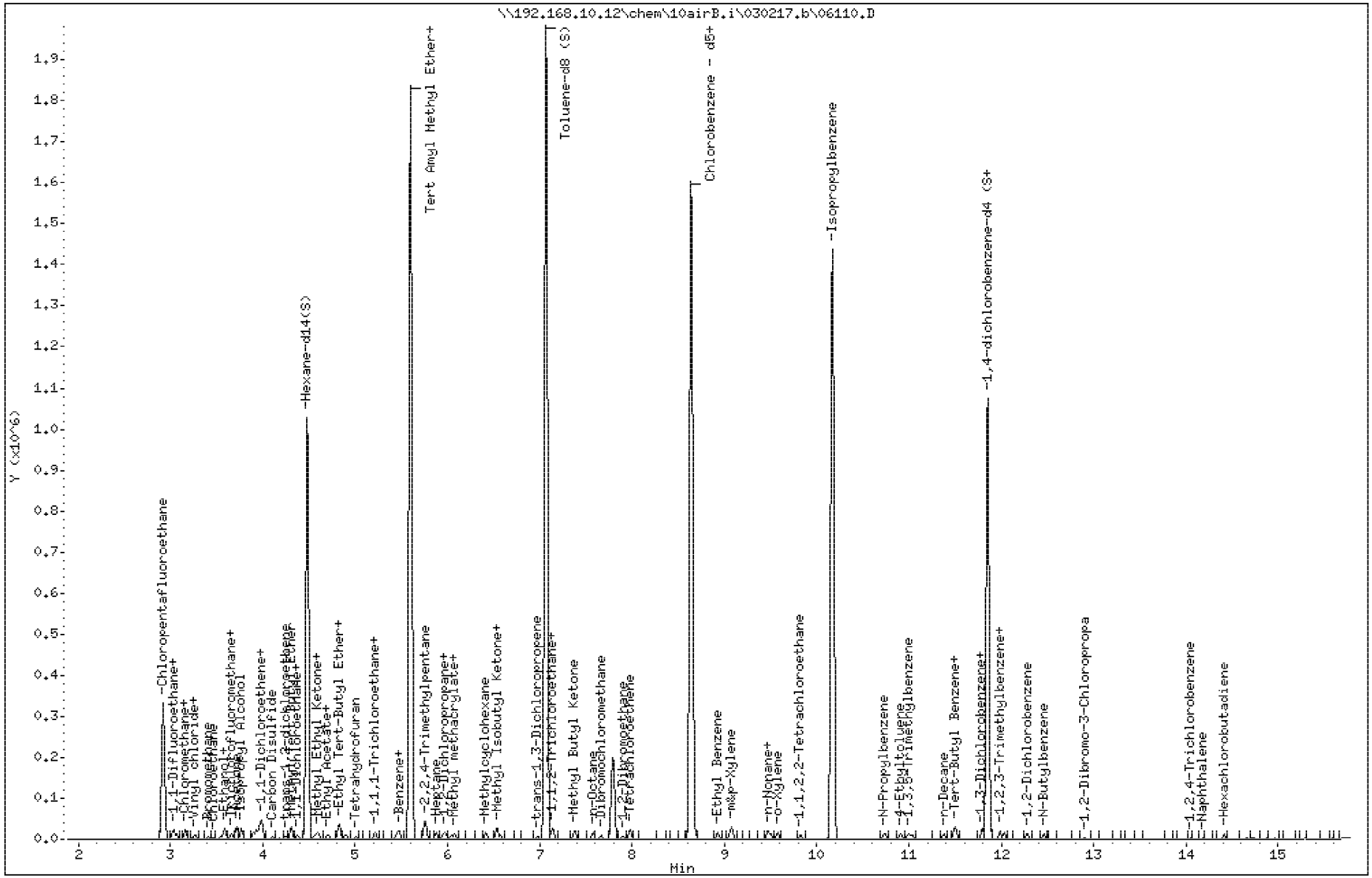
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1283793	-9.22
67 Chlorobenzene - d	951026	570616	1331436	899058	-5.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

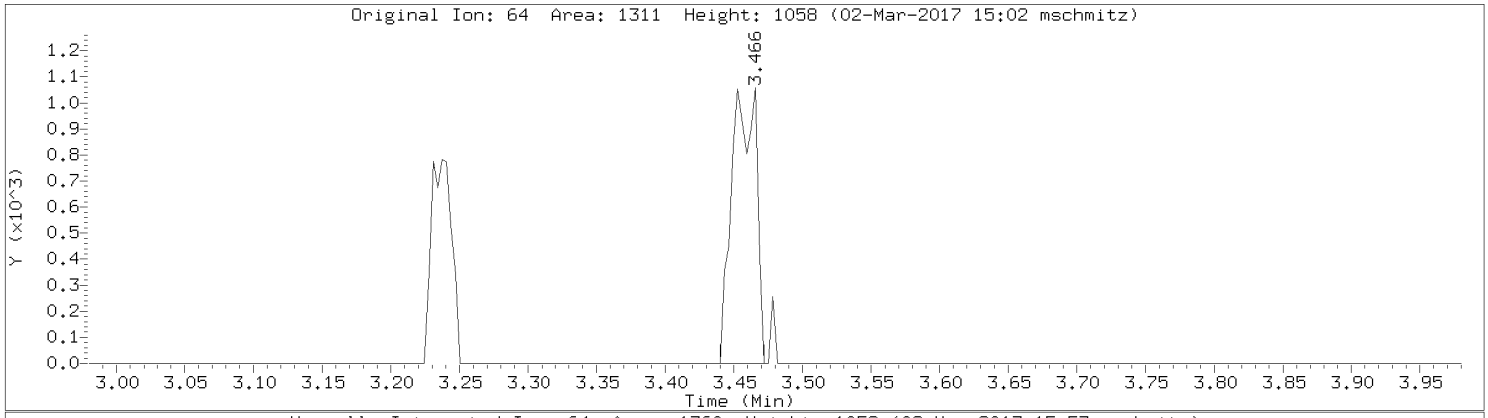
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Date : 02-MAR-2017 11:46
Client ID:
Sample Info:

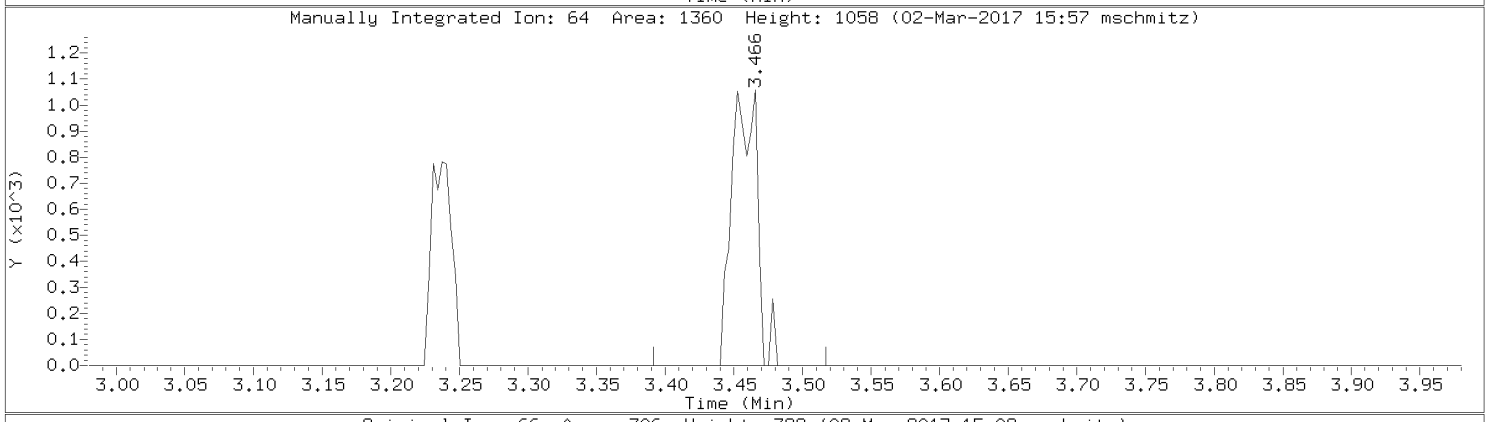
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

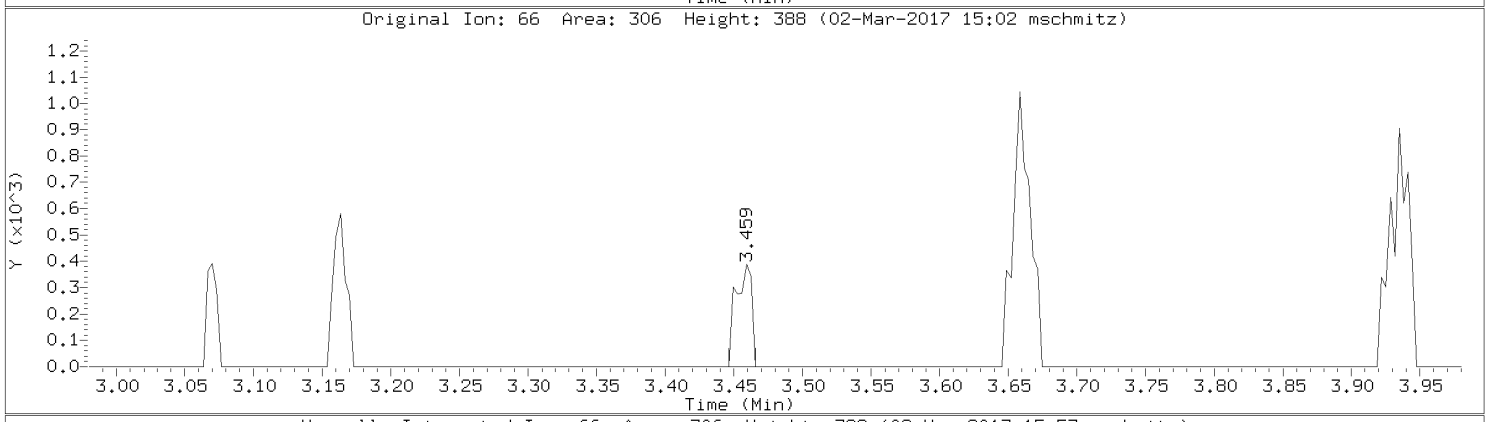


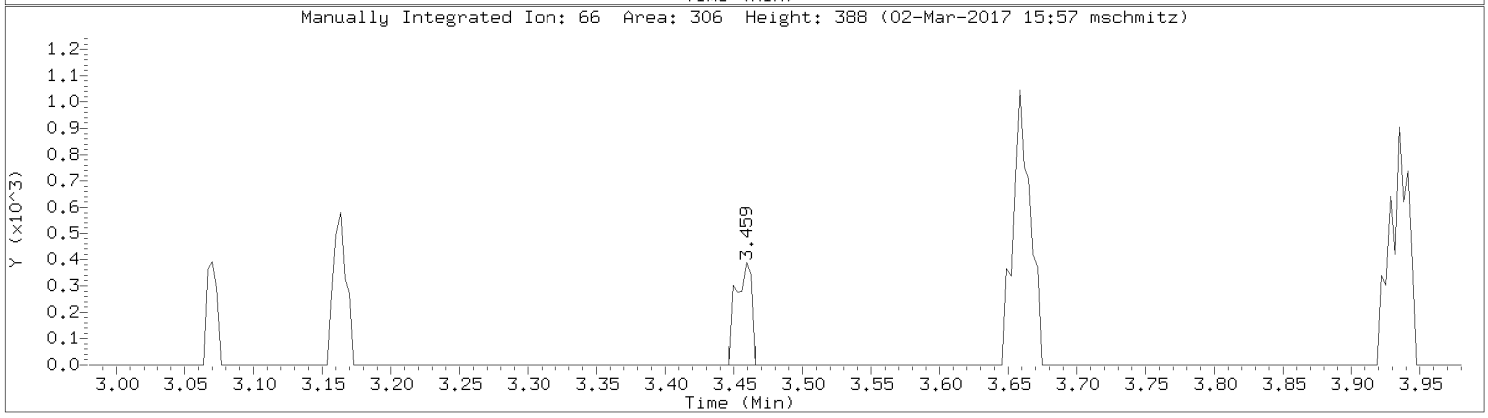
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Chloroethane
CAS Number: 75-00-3



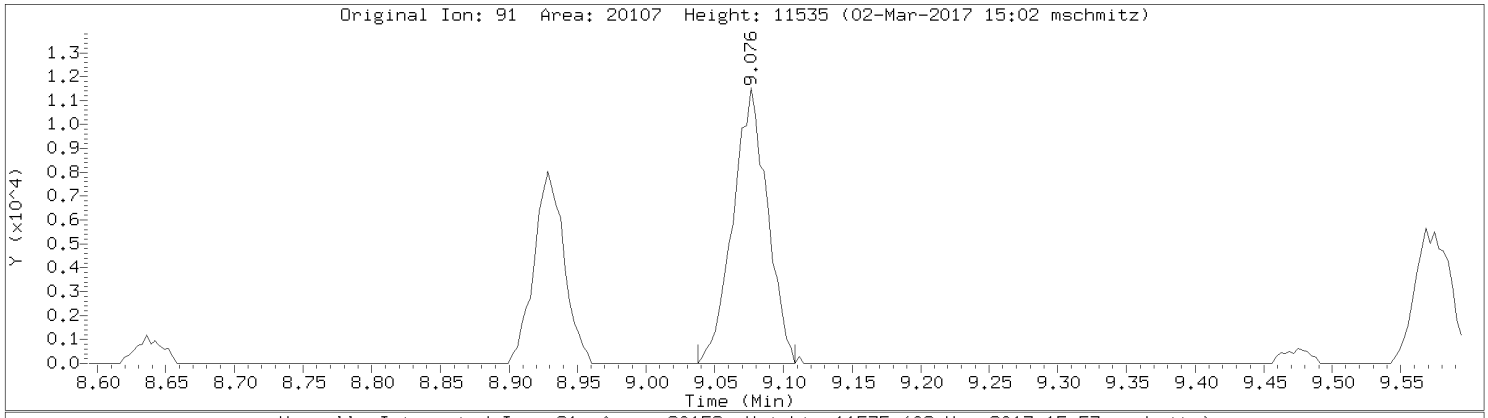


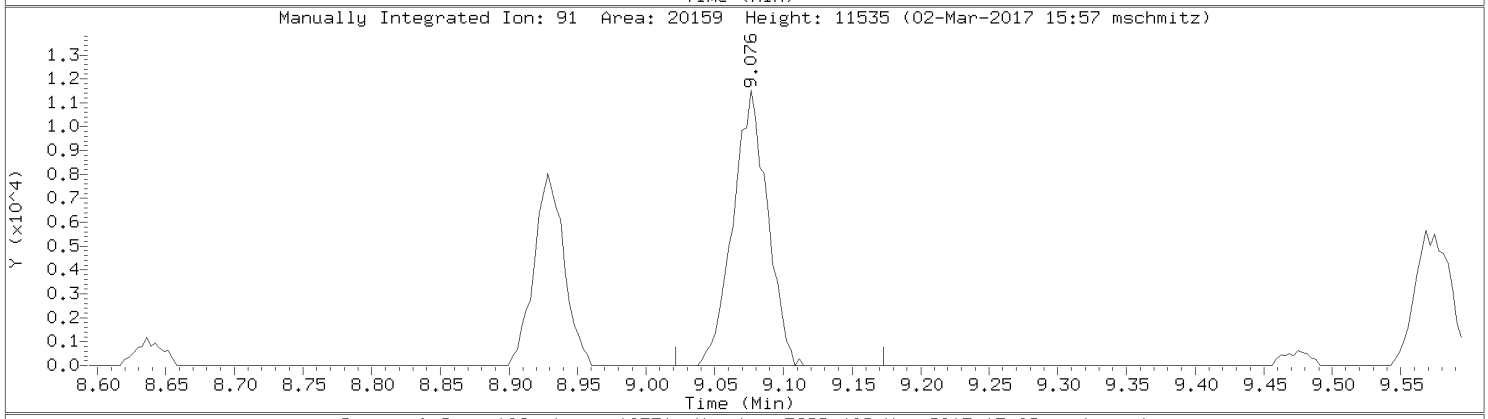


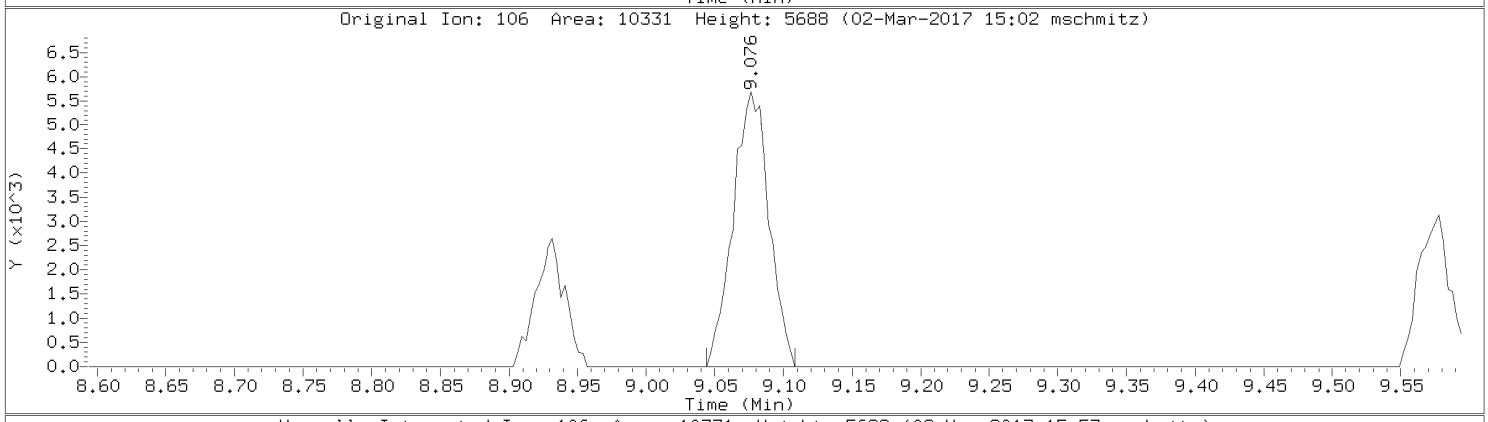


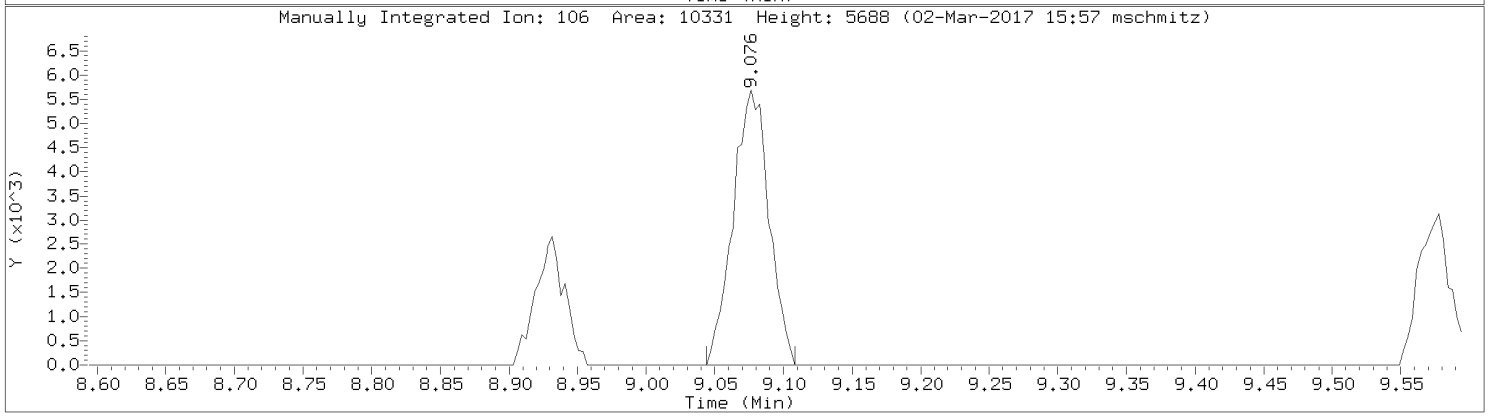
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: m&p-Xylene
CAS Number: 7816-60-0



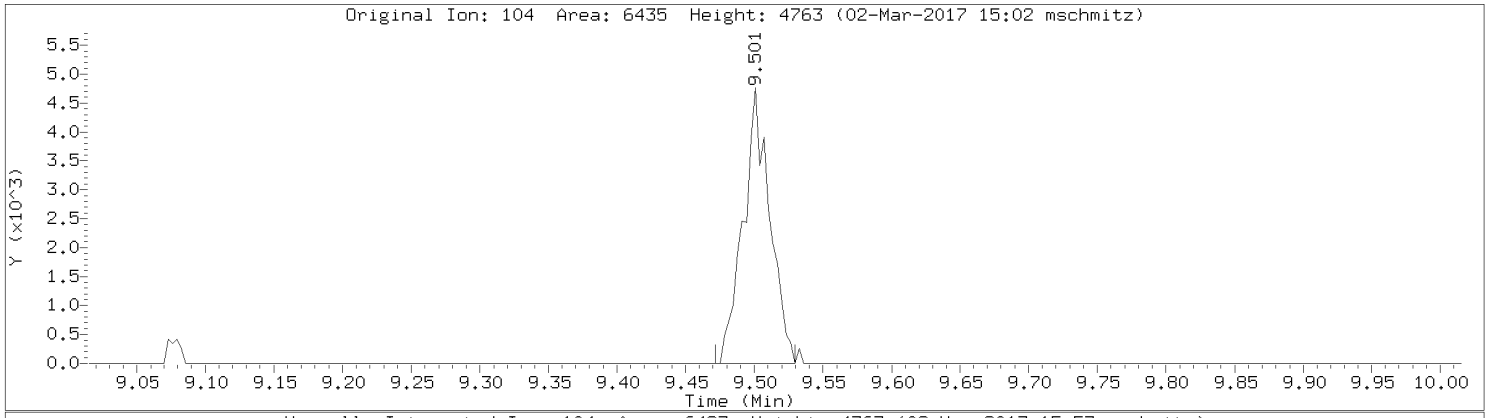


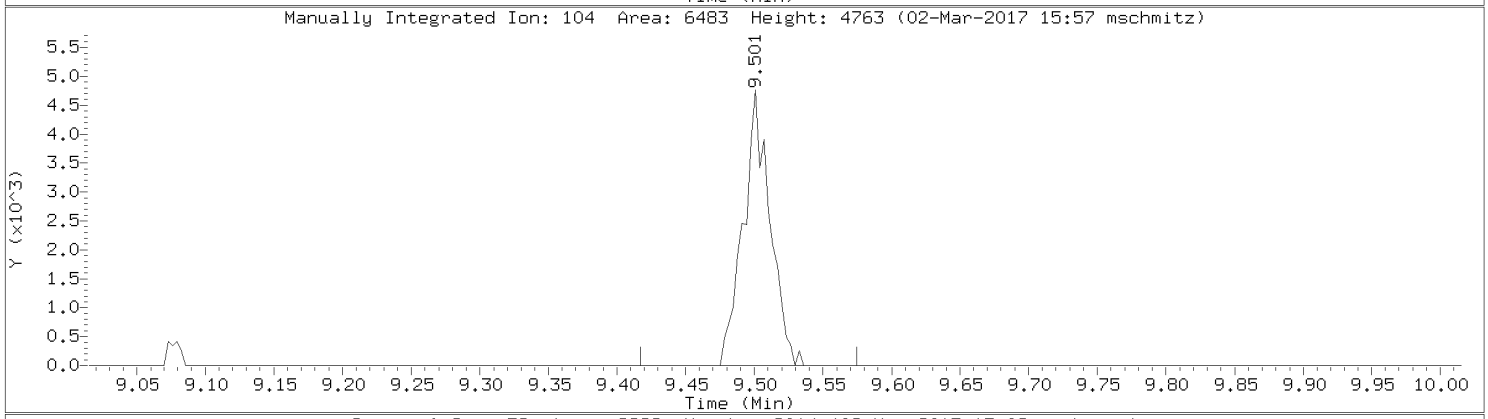


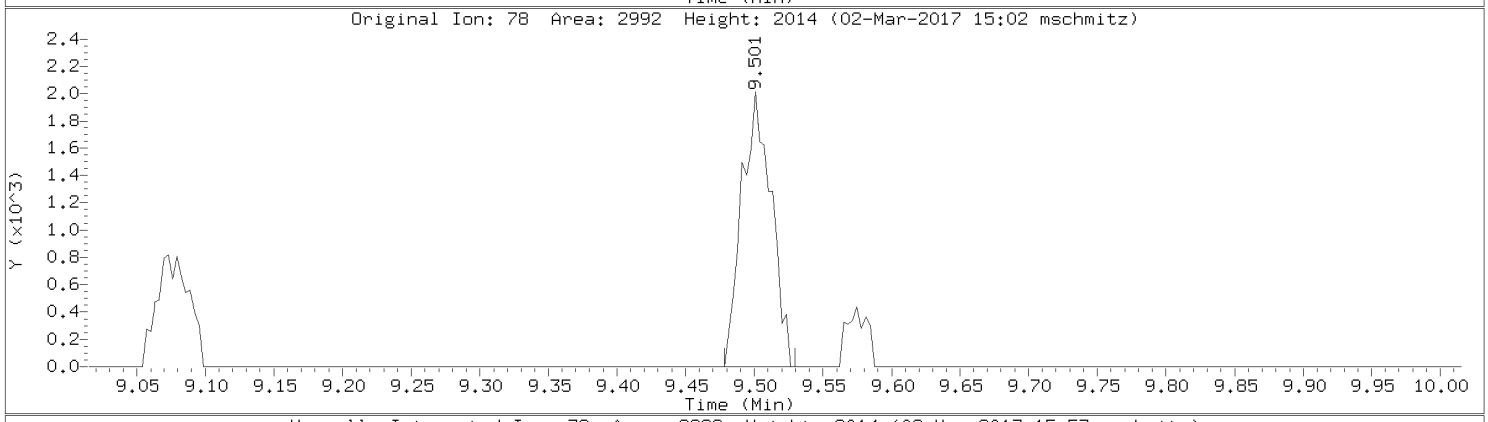


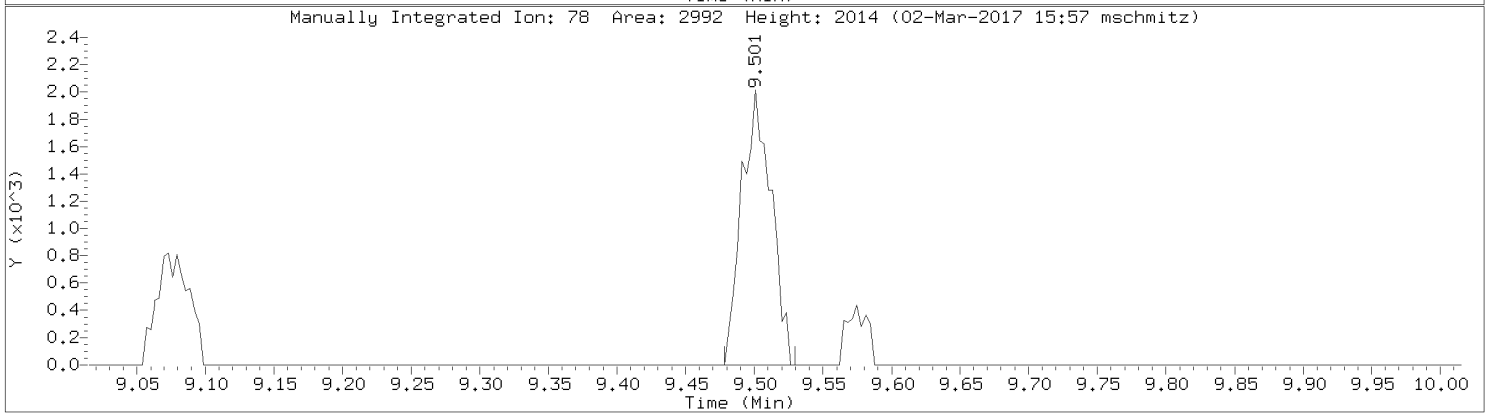
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Styrene
CAS Number: 100-42-5

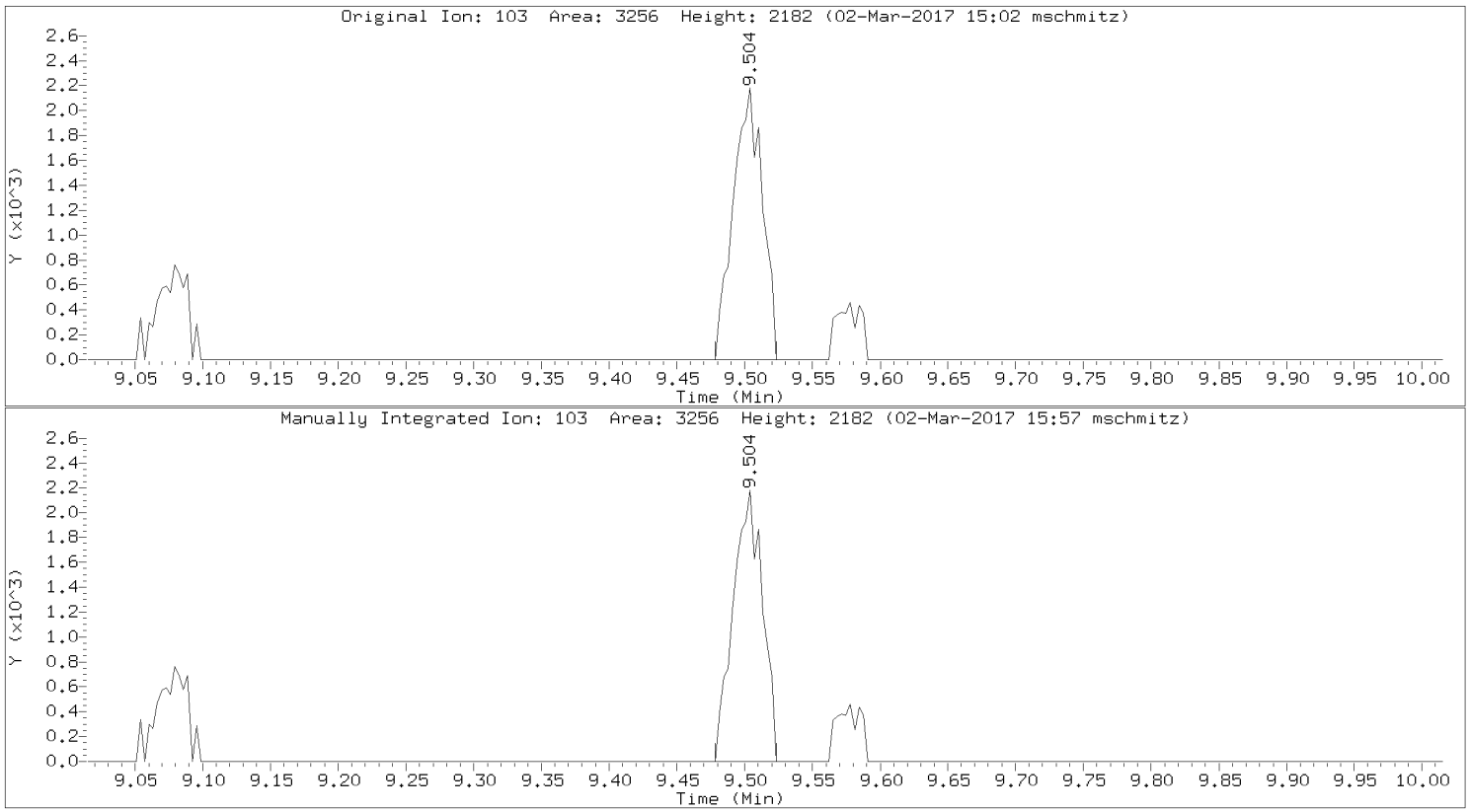






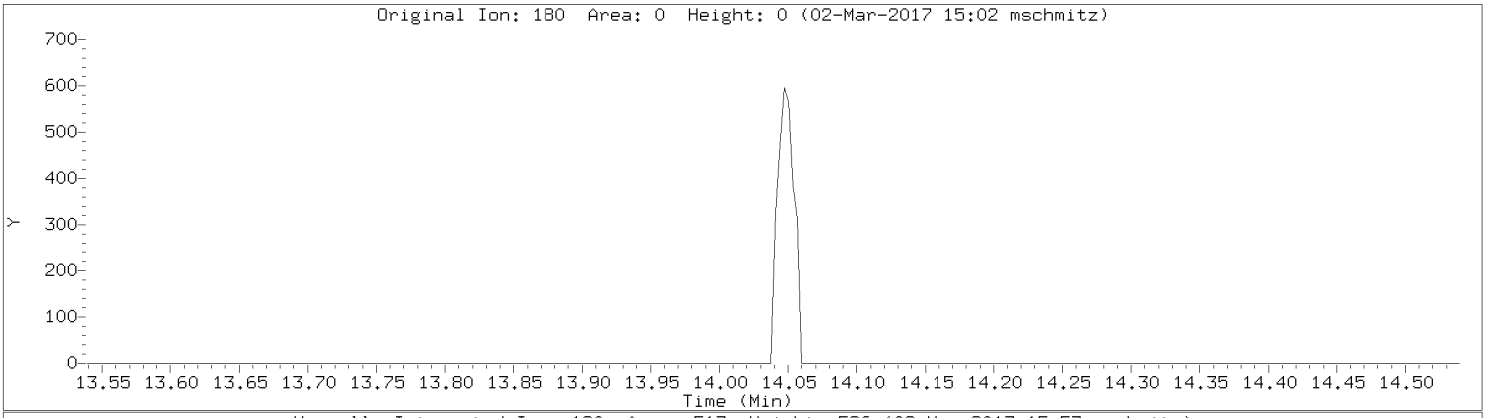


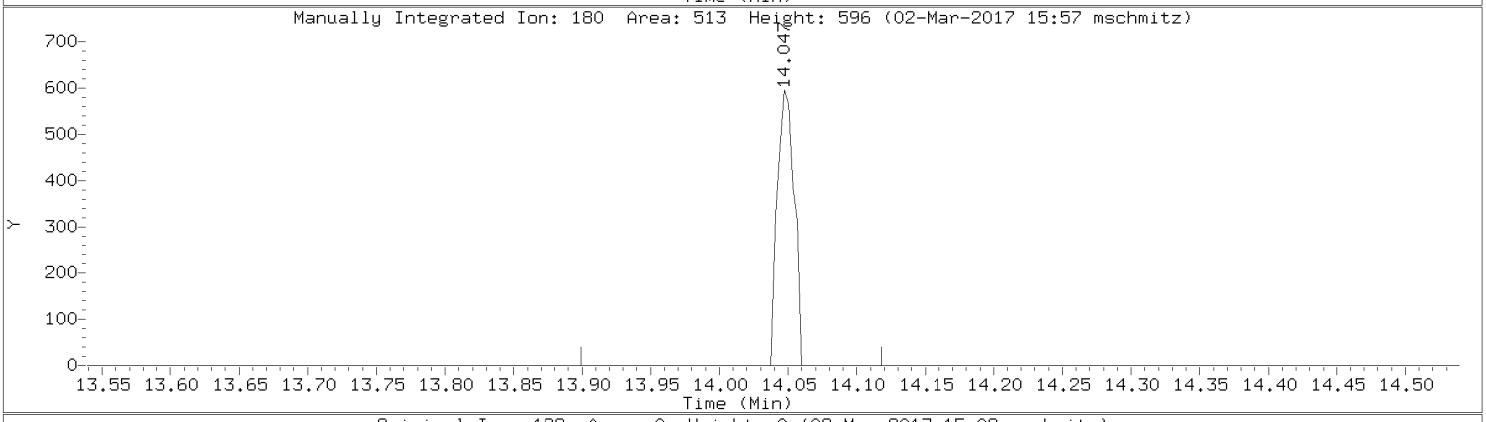
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

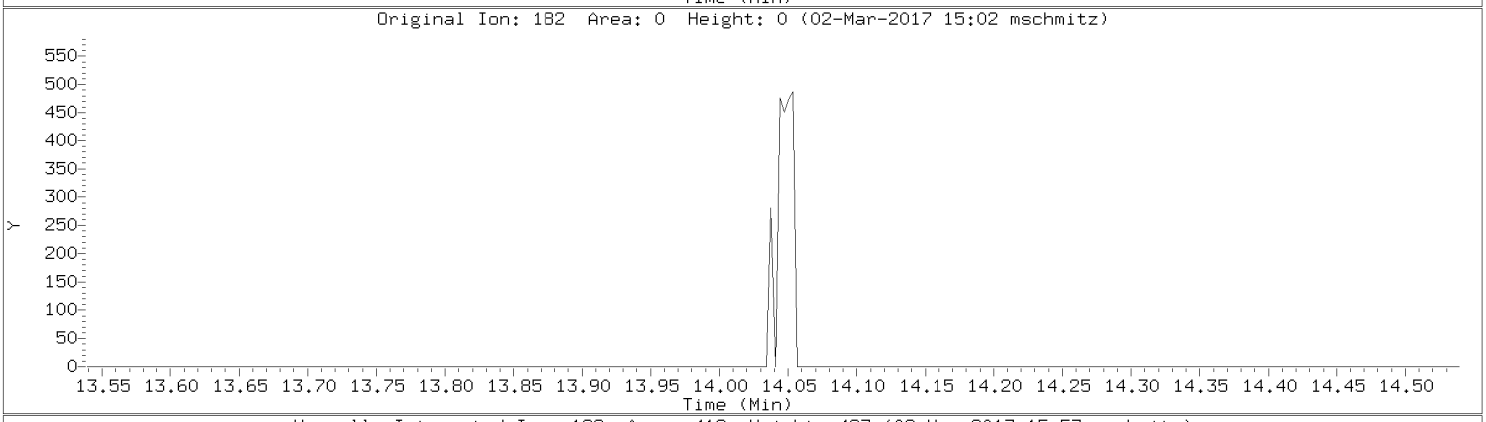


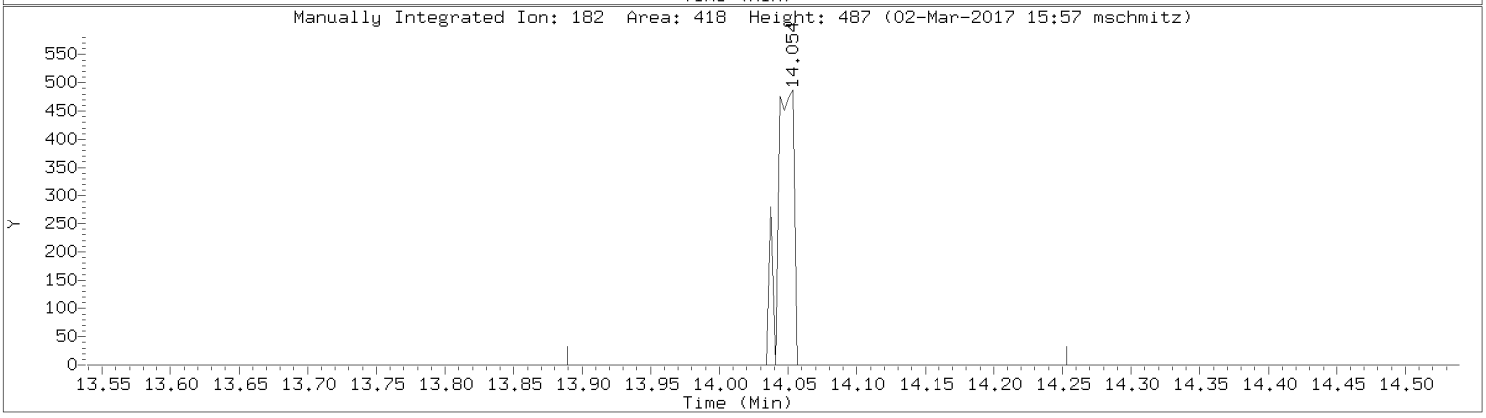
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

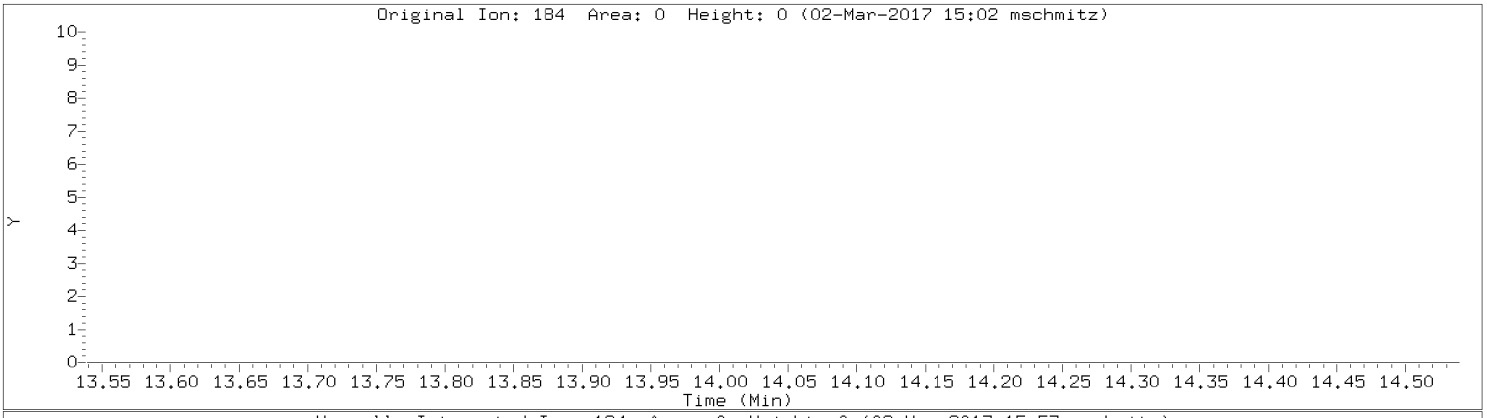


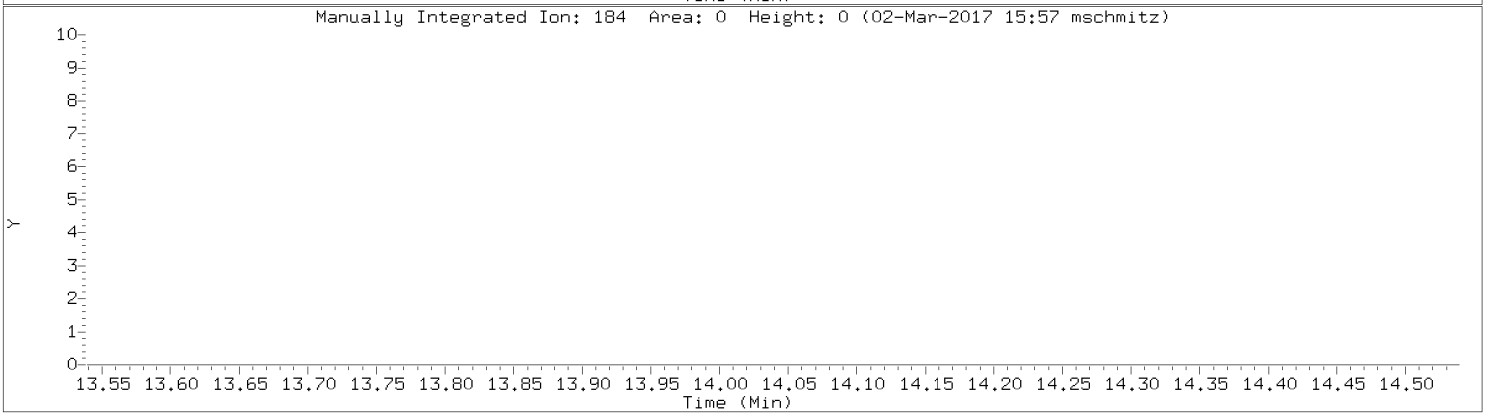






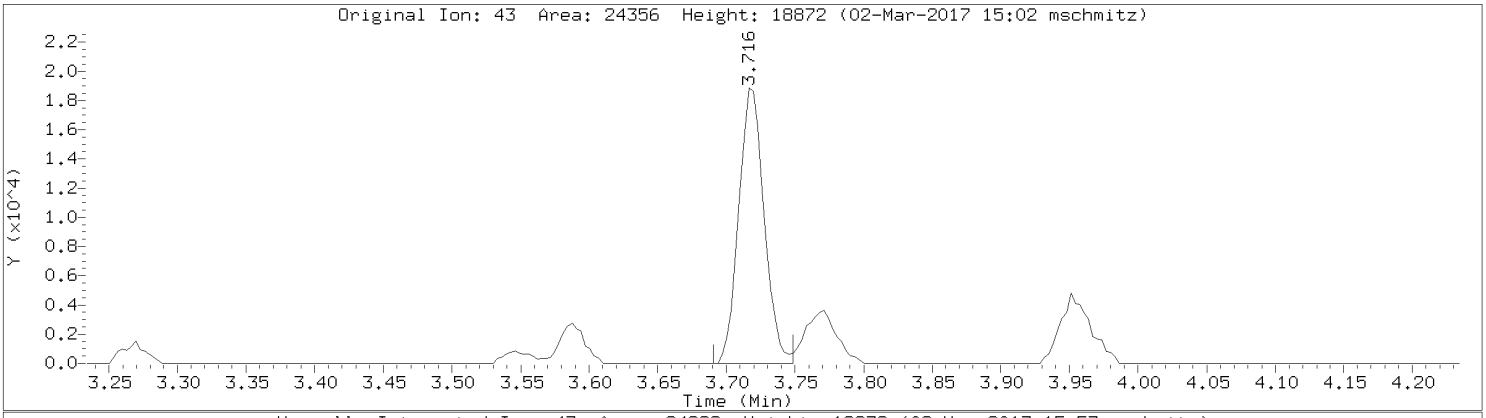
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

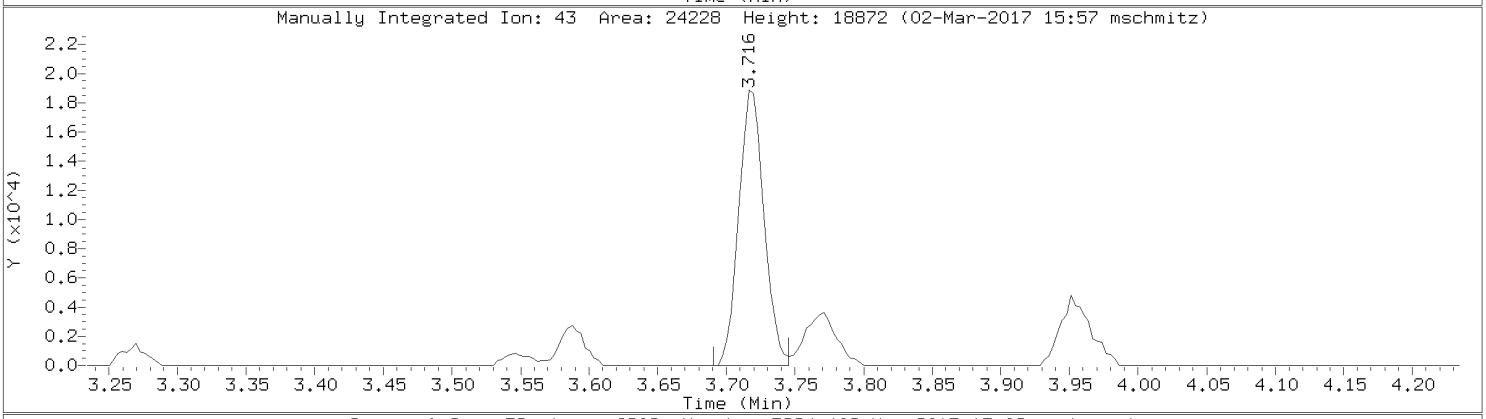


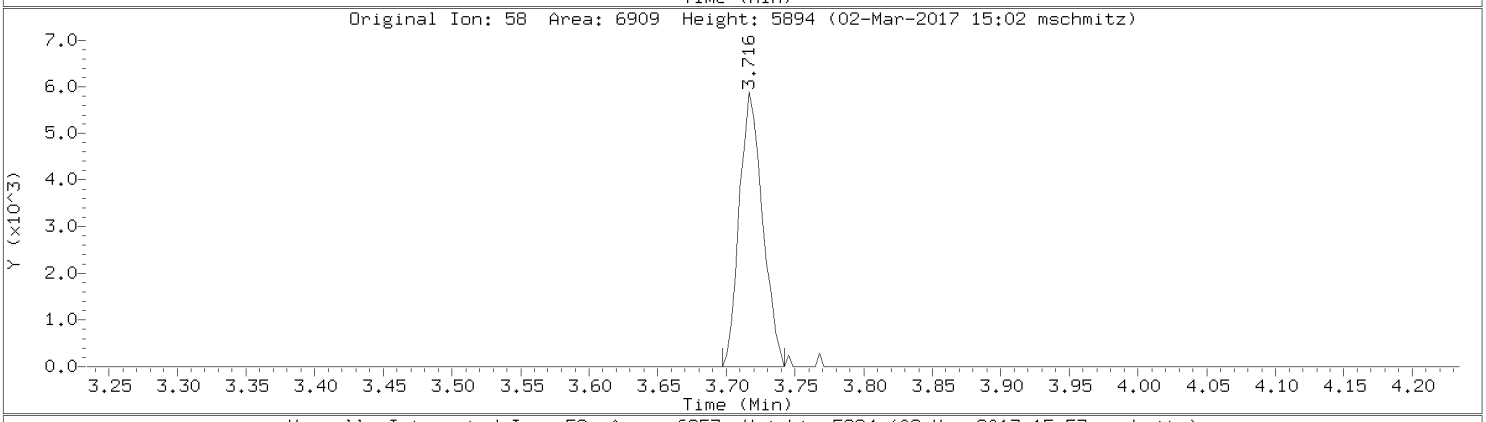


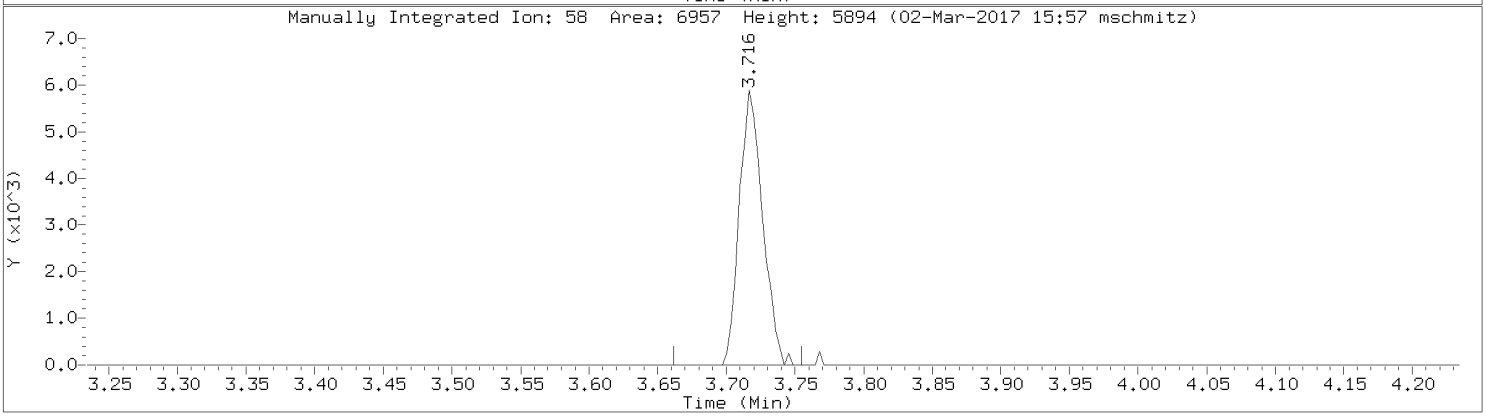
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Acetone
CAS Number: 67-64-1



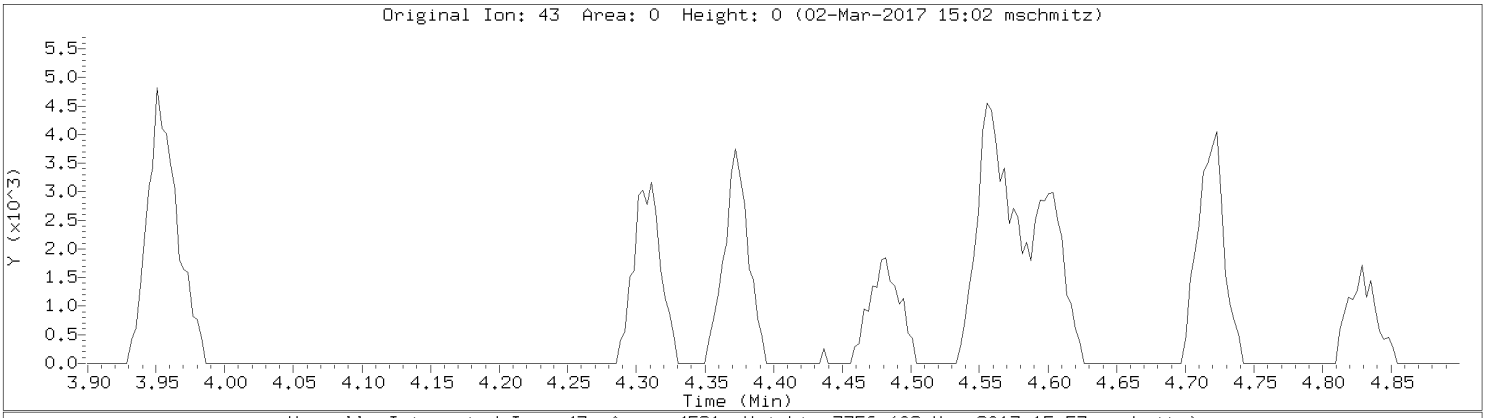


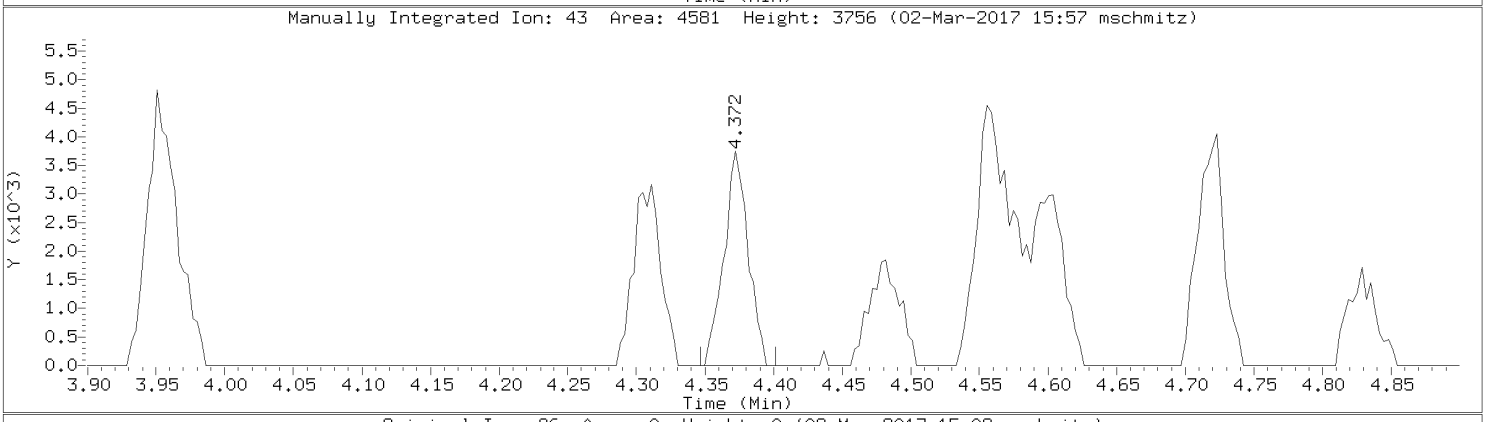


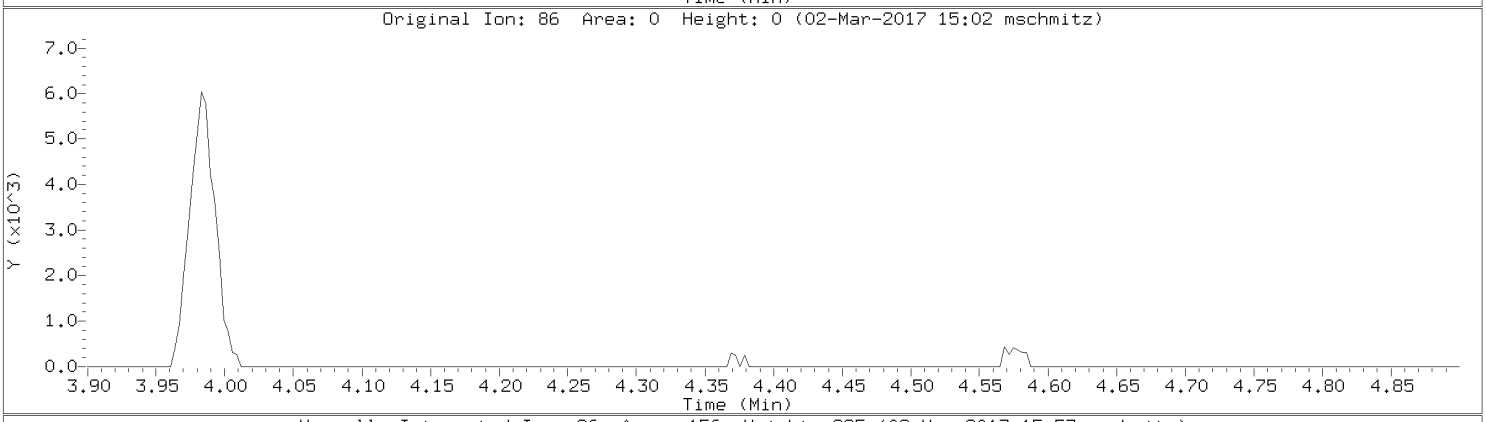


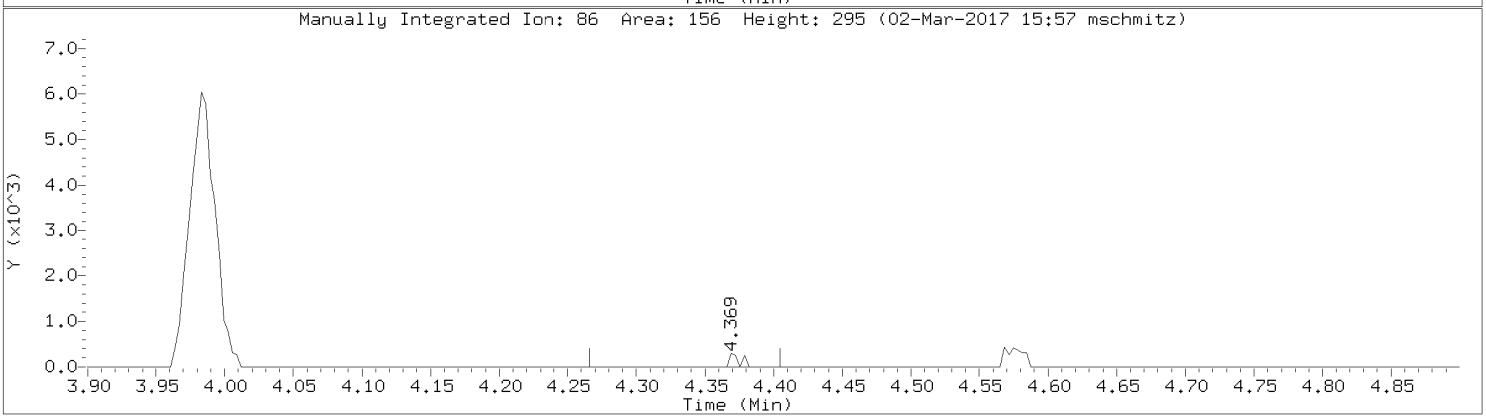
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Vinyl Acetate
CAS Number: 108-05-4



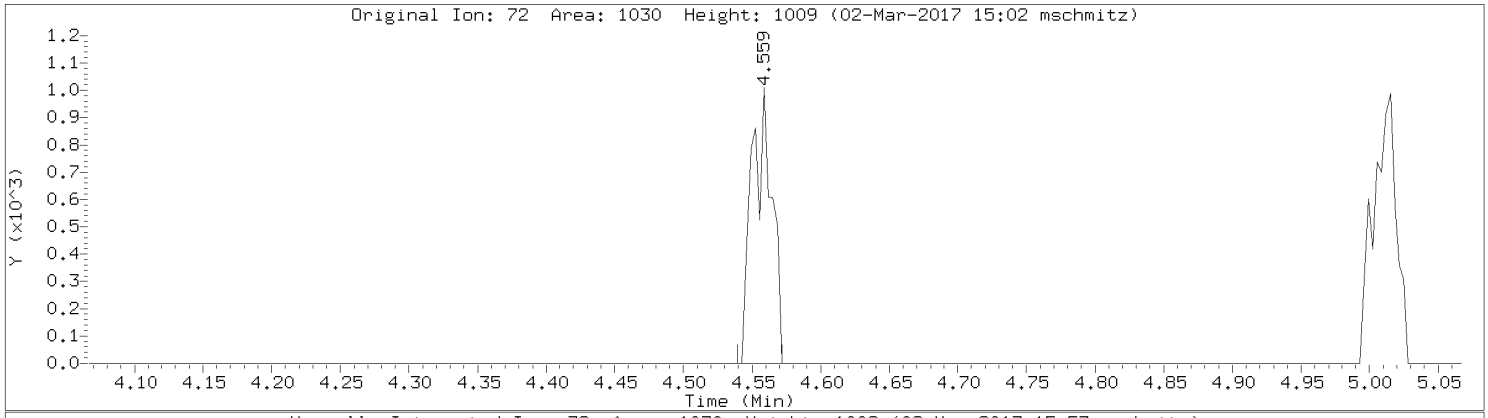


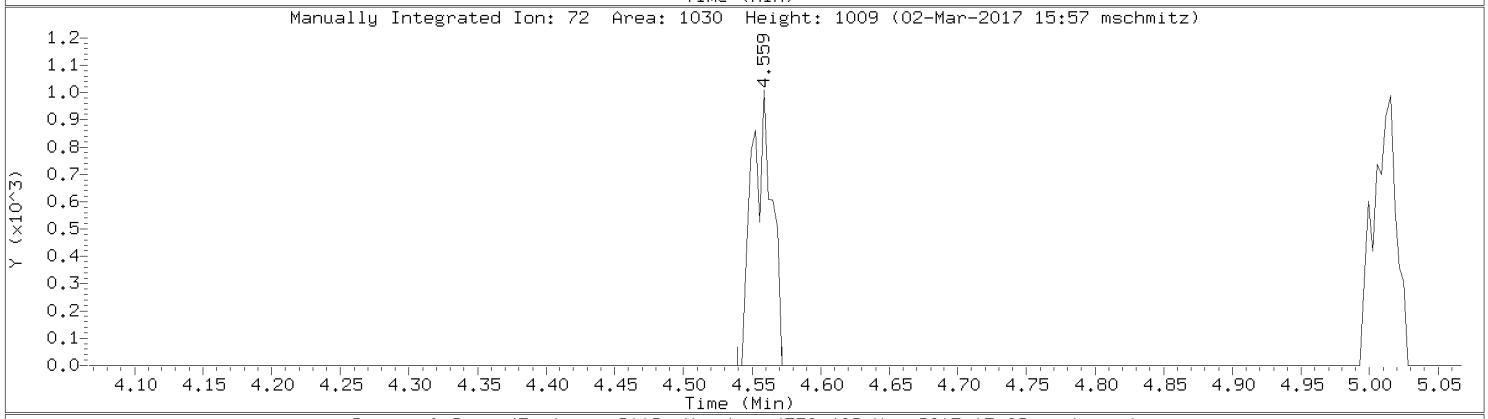


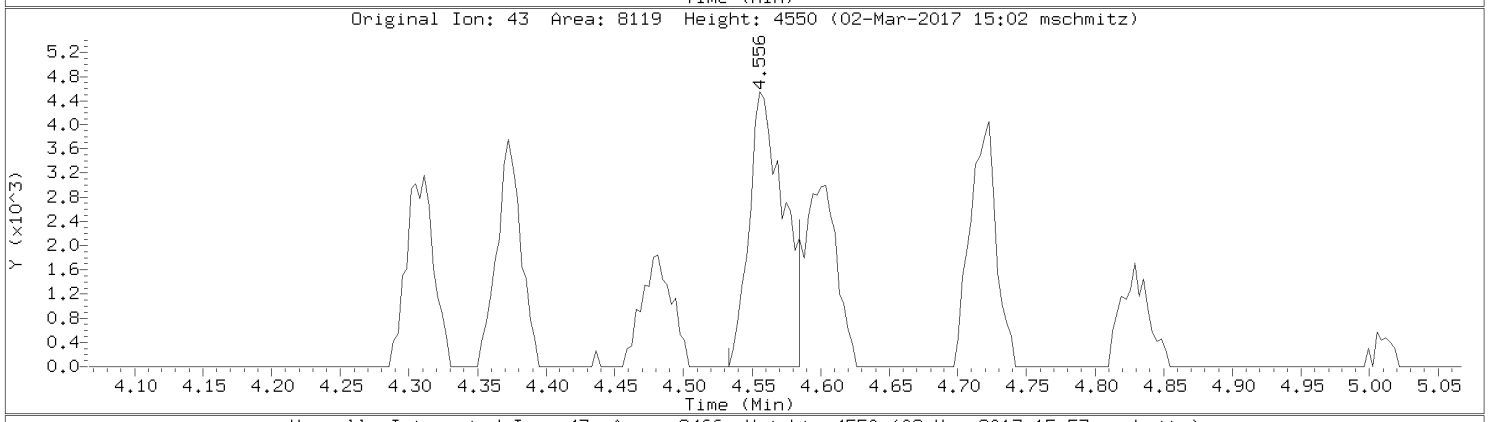


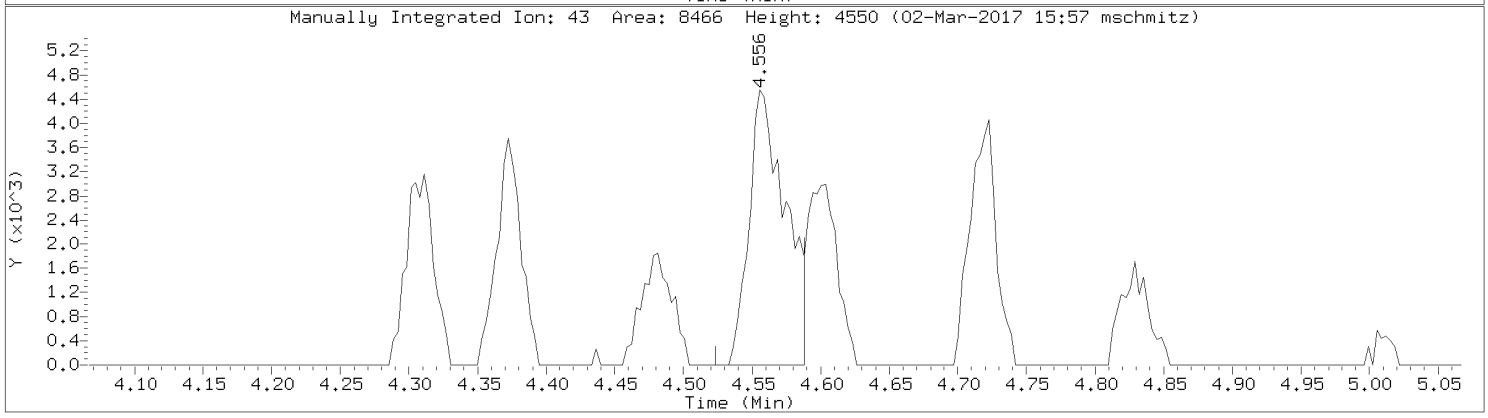
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



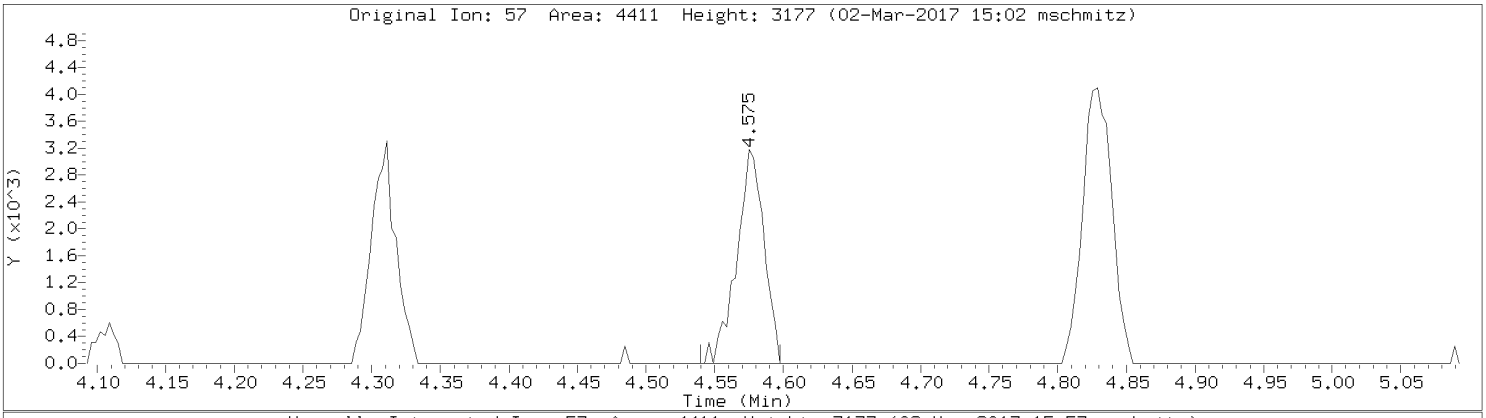


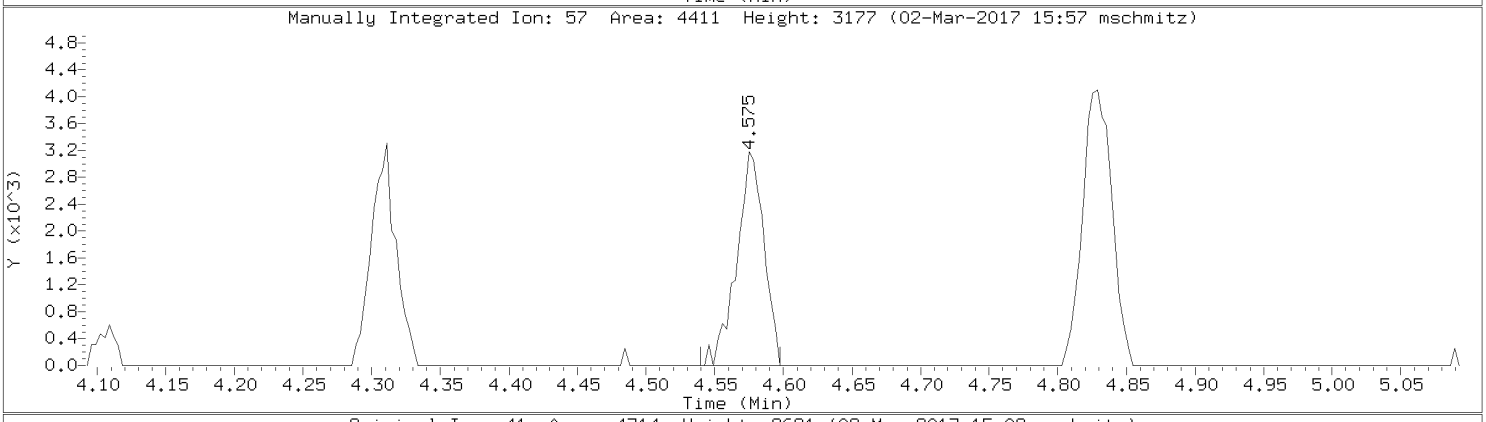


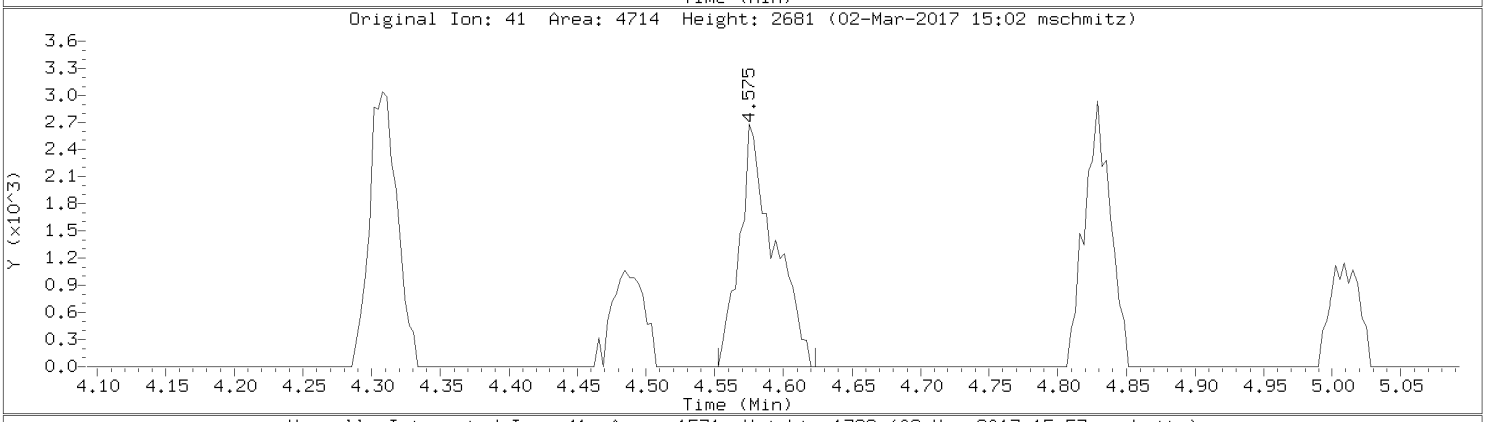


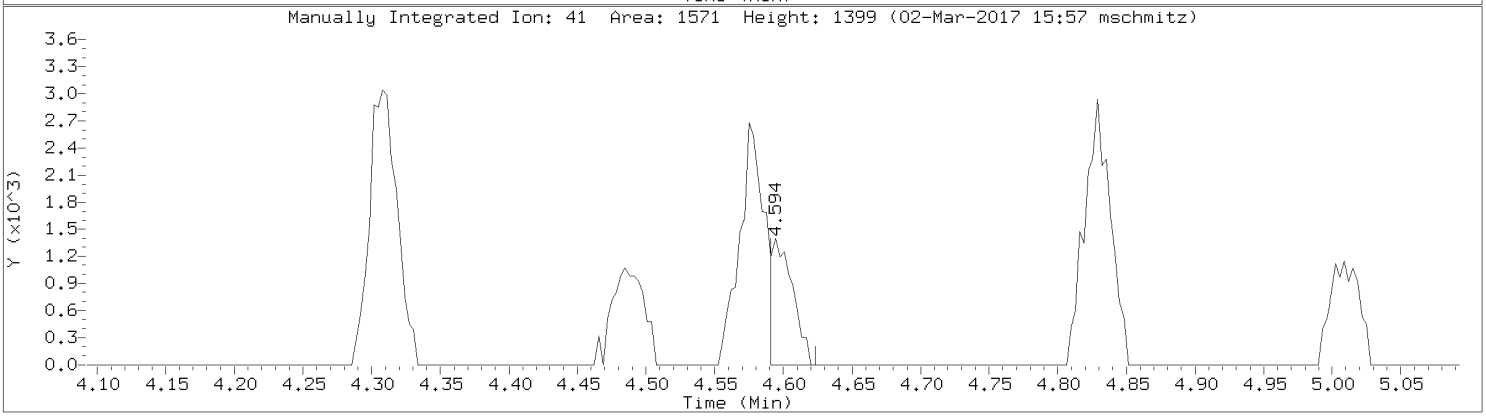
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: n-Hexane
CAS Number: 110-54-3

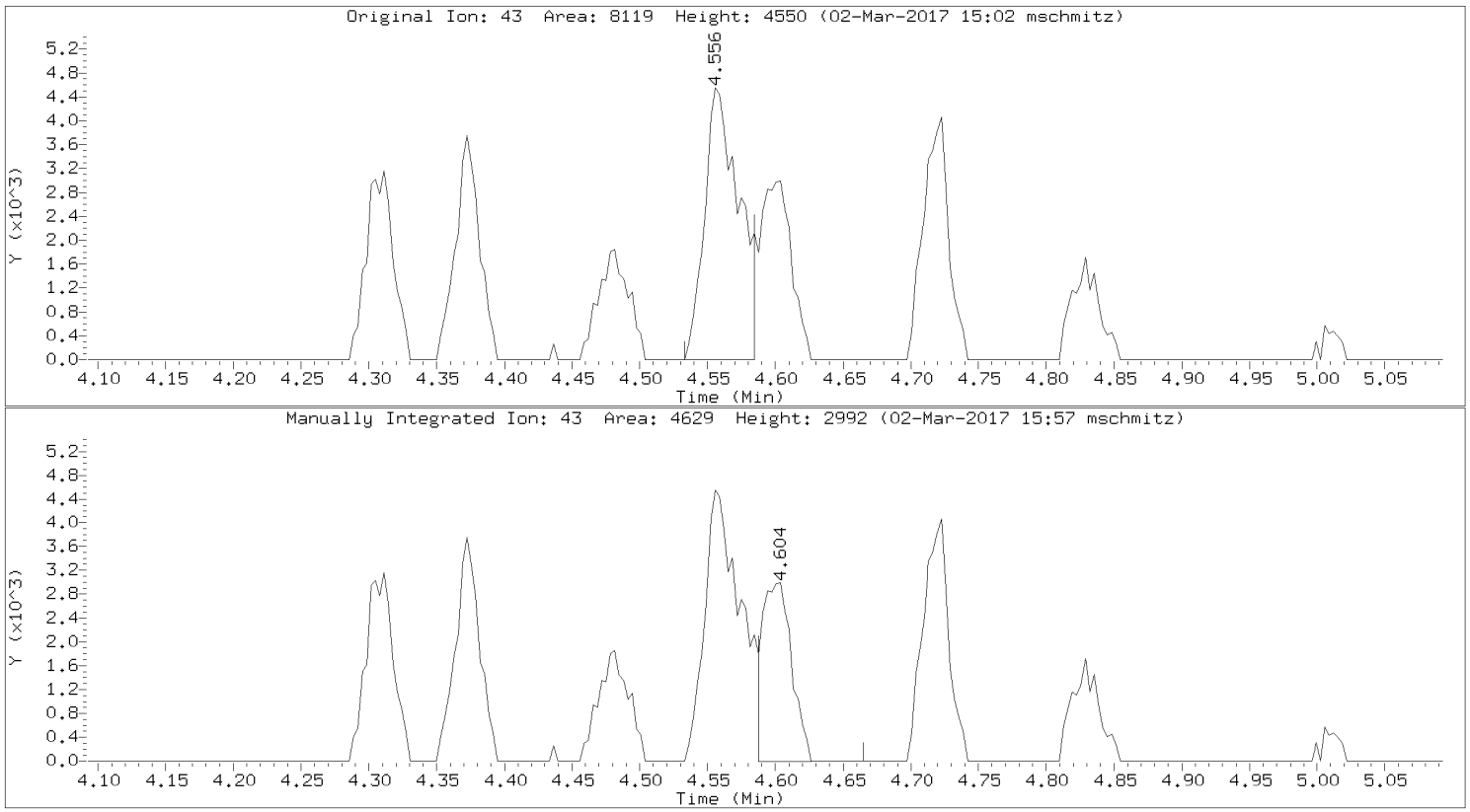






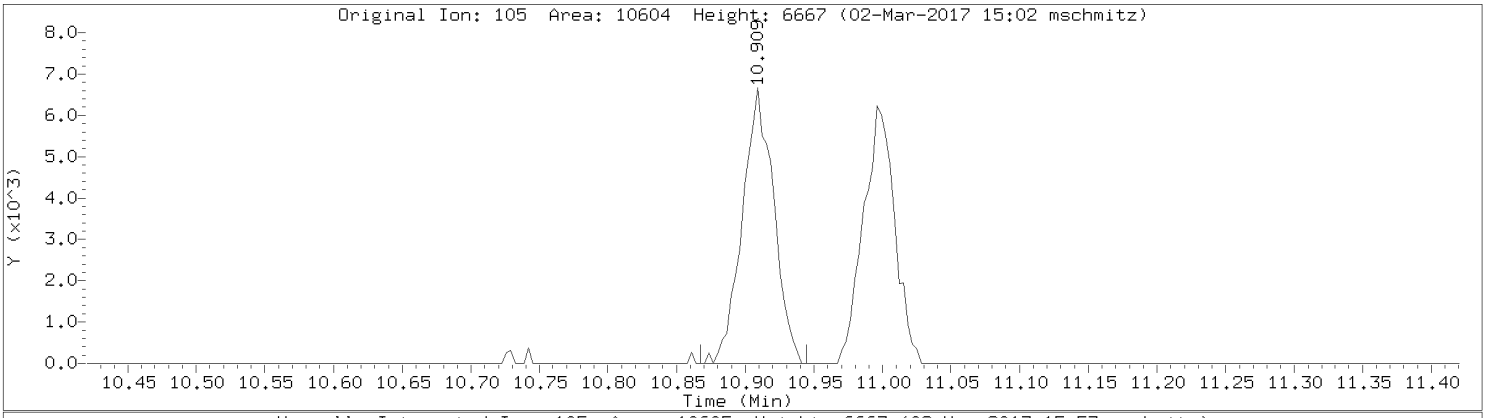


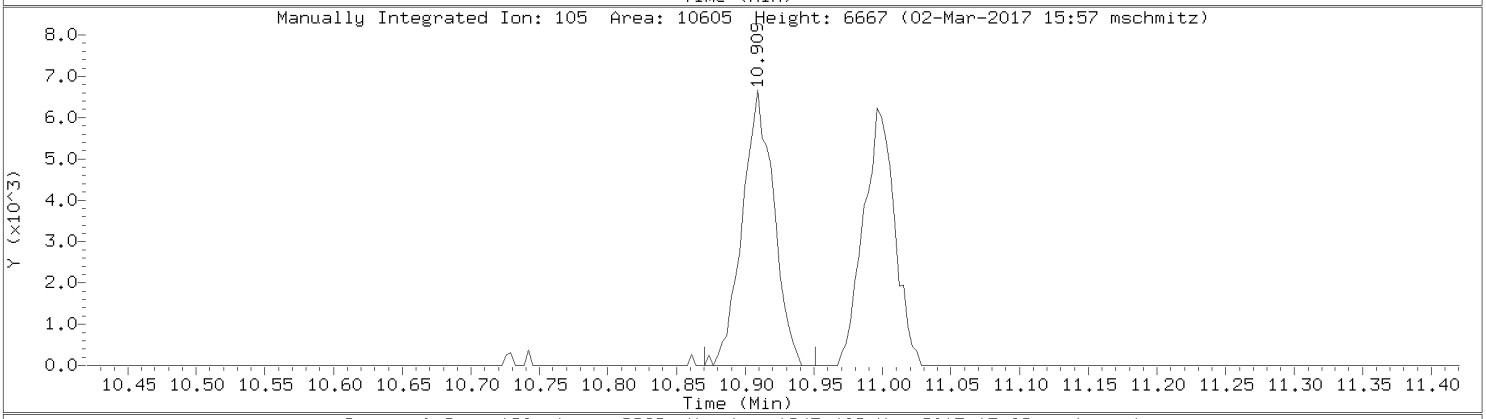
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

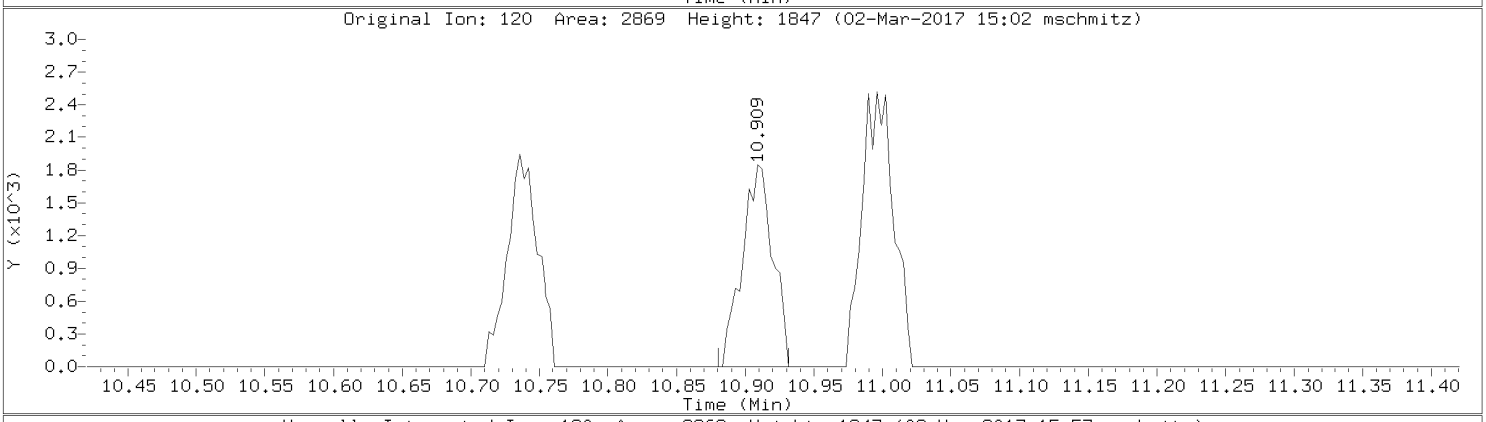


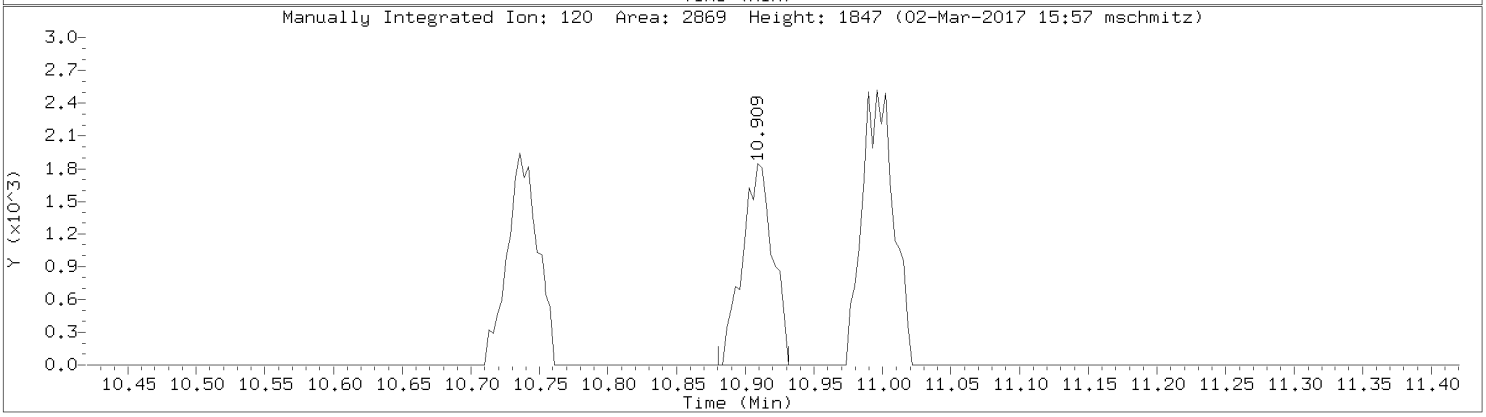
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

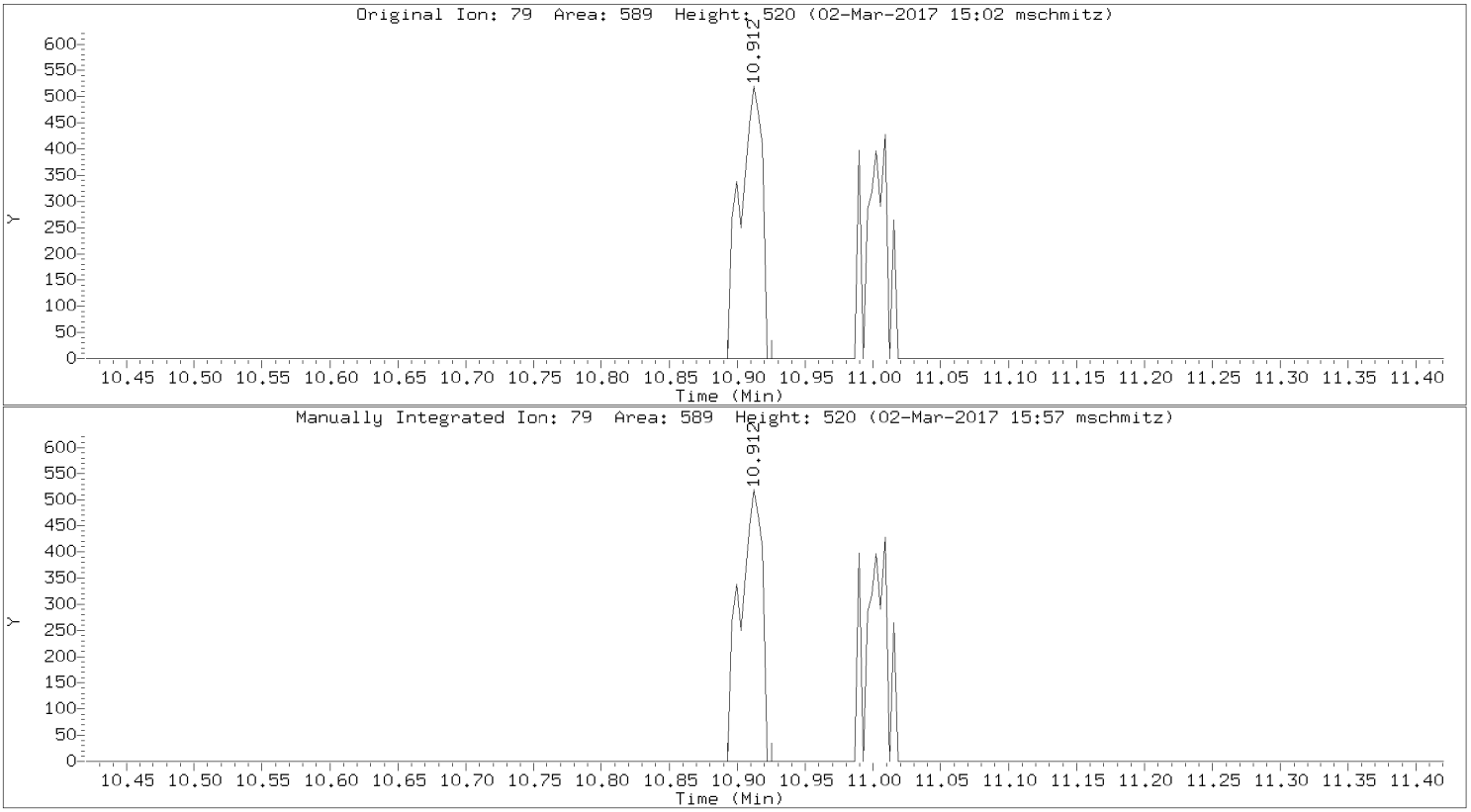






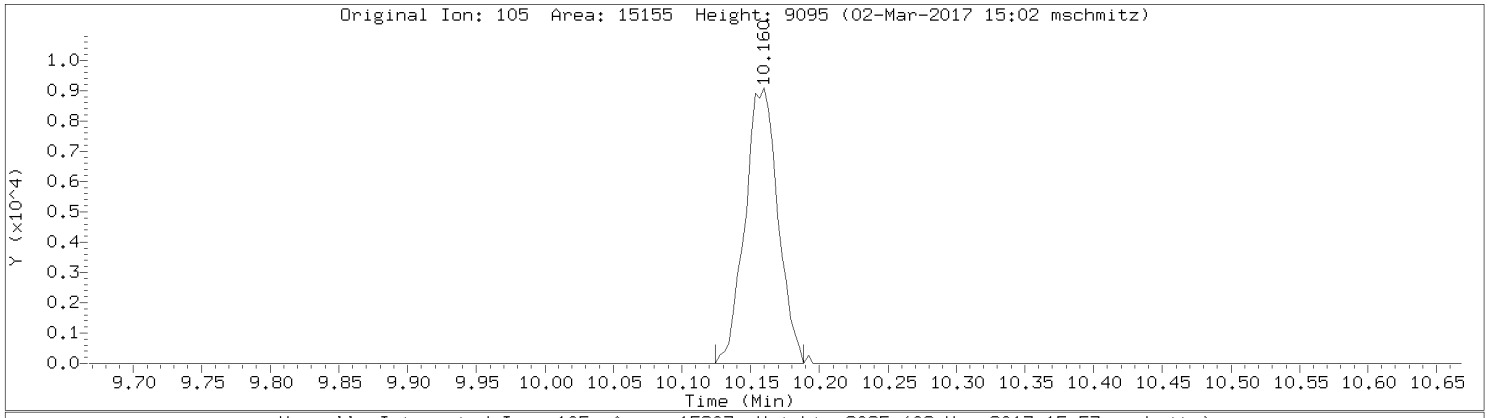


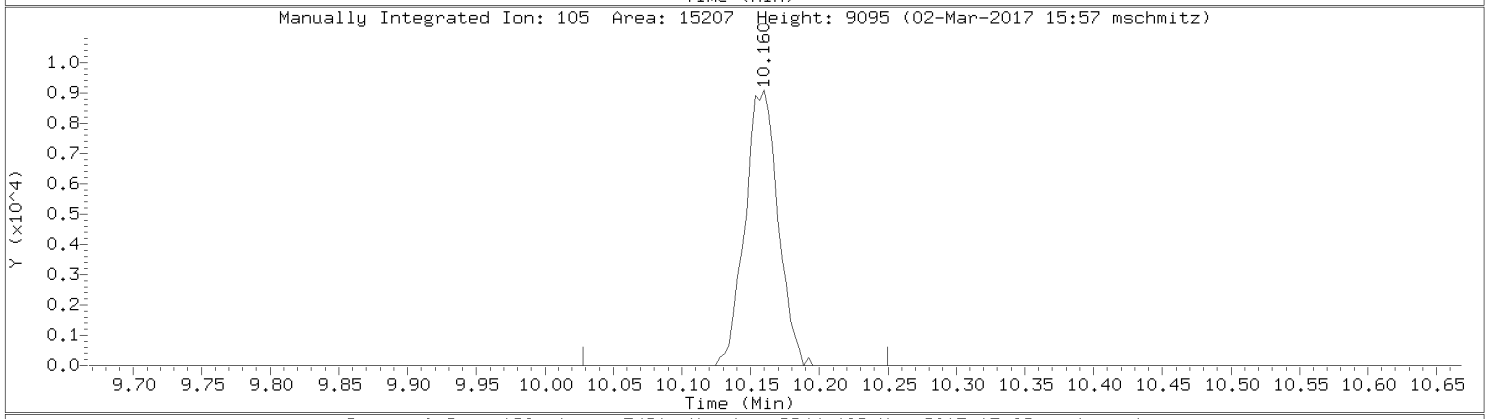
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

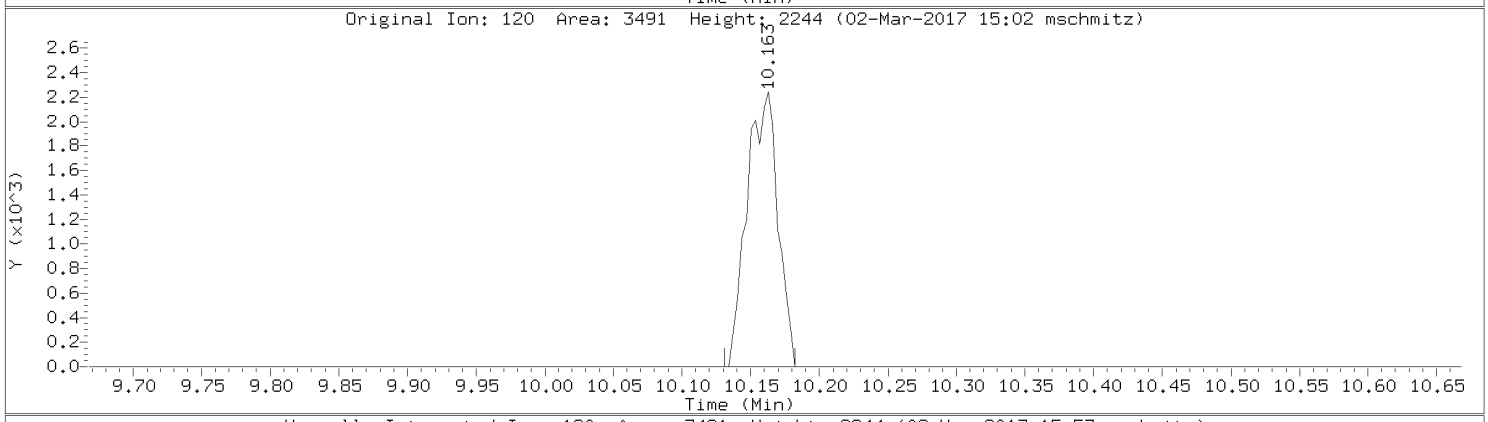


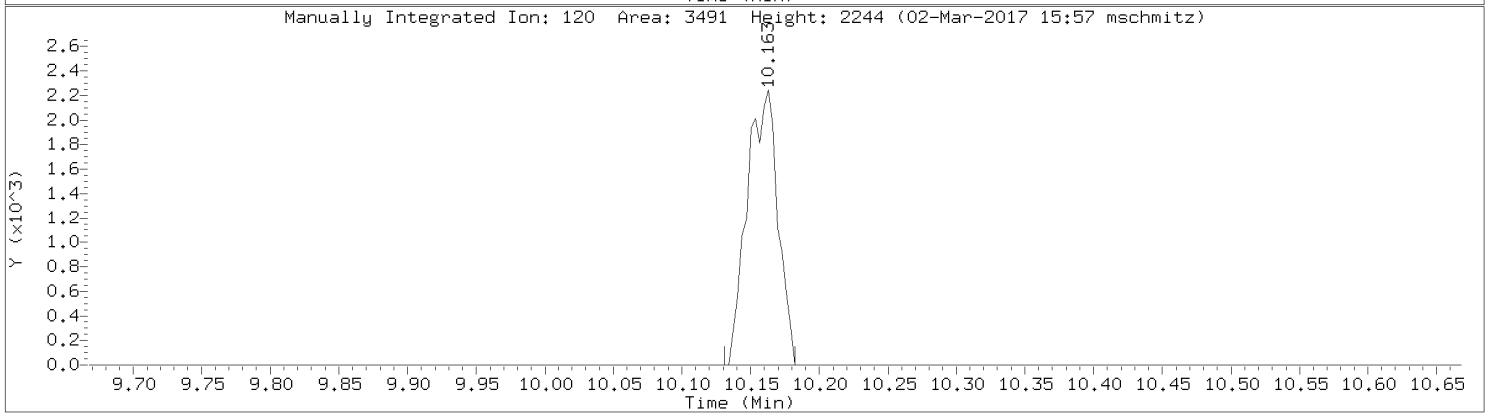
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Isopropylbenzene
CAS Number:



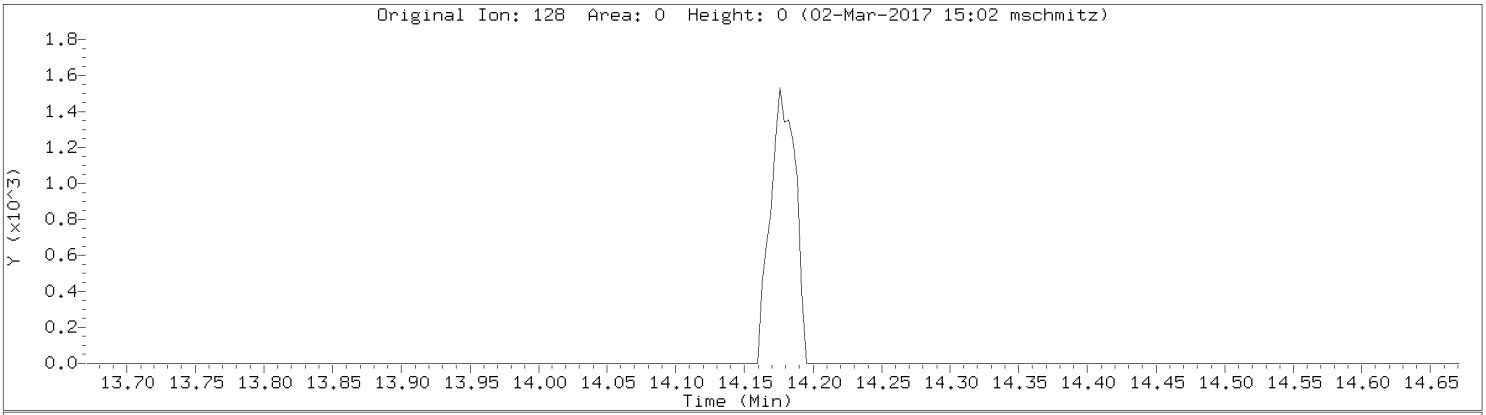


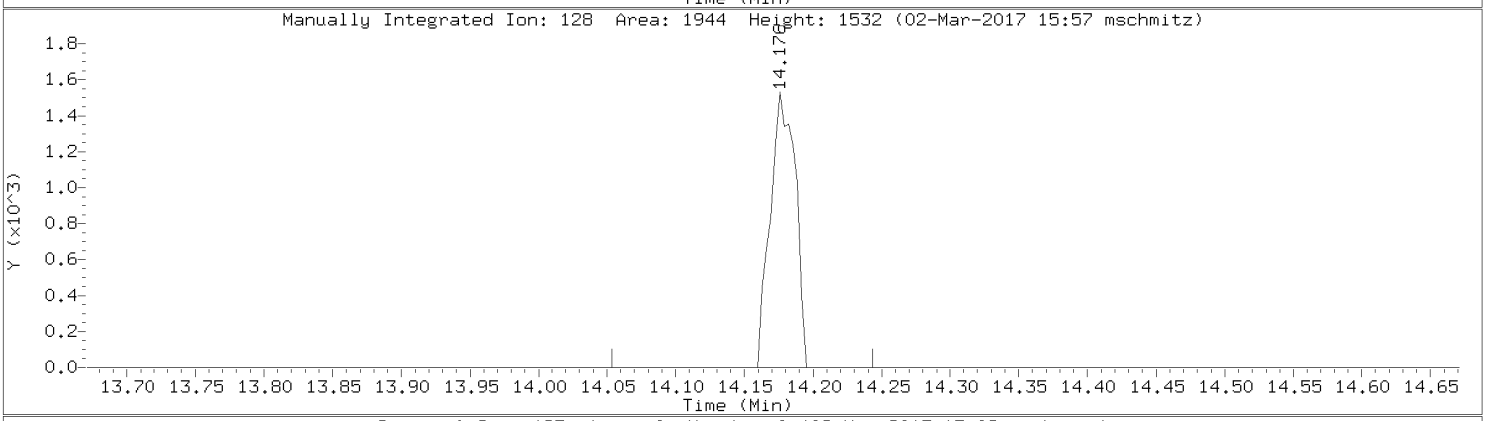


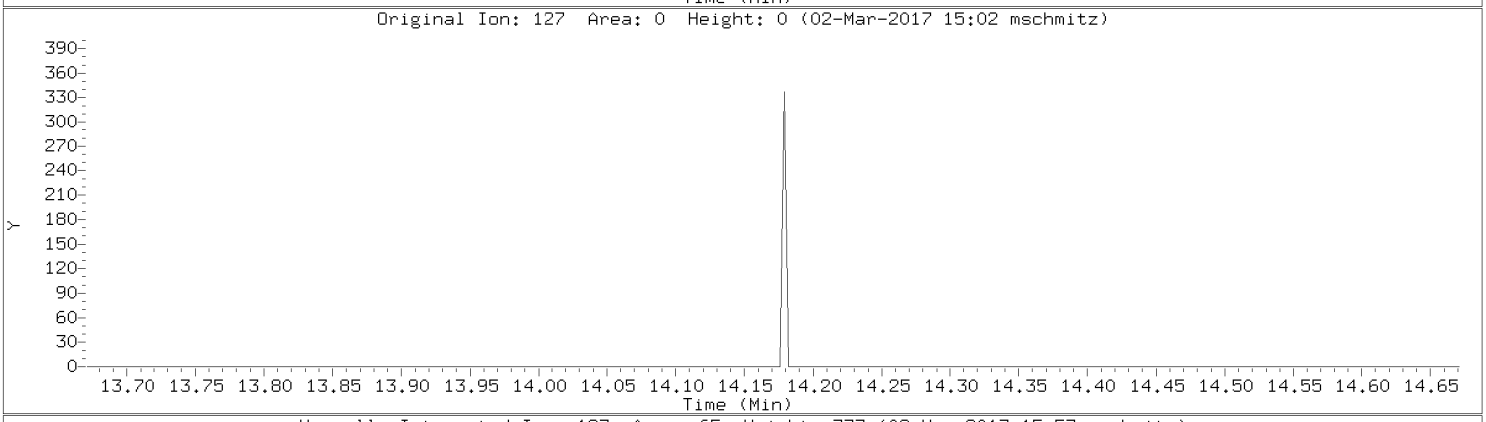


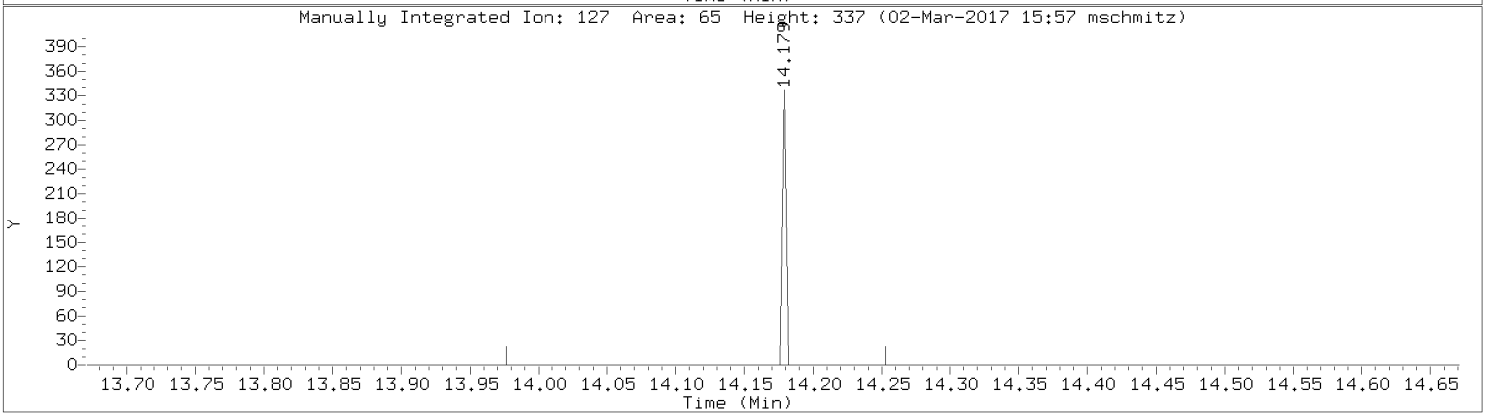
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Naphthalene
CAS Number: 91-20-3



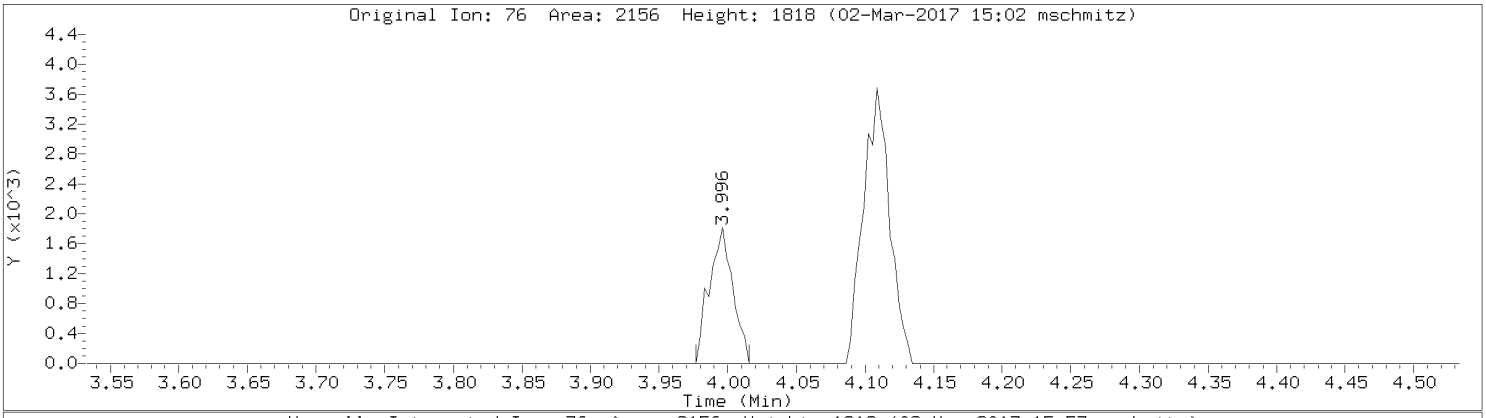


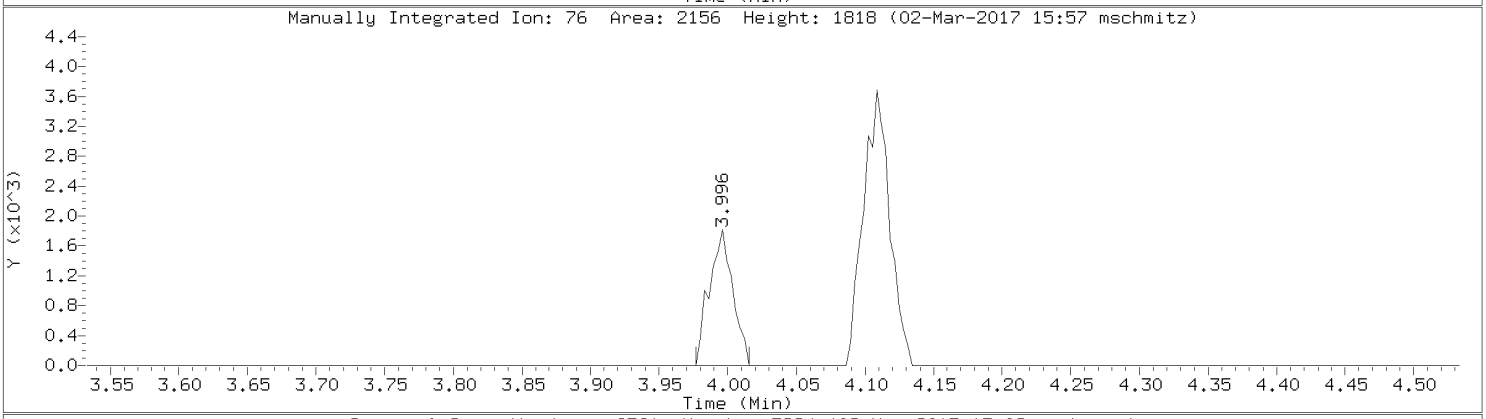


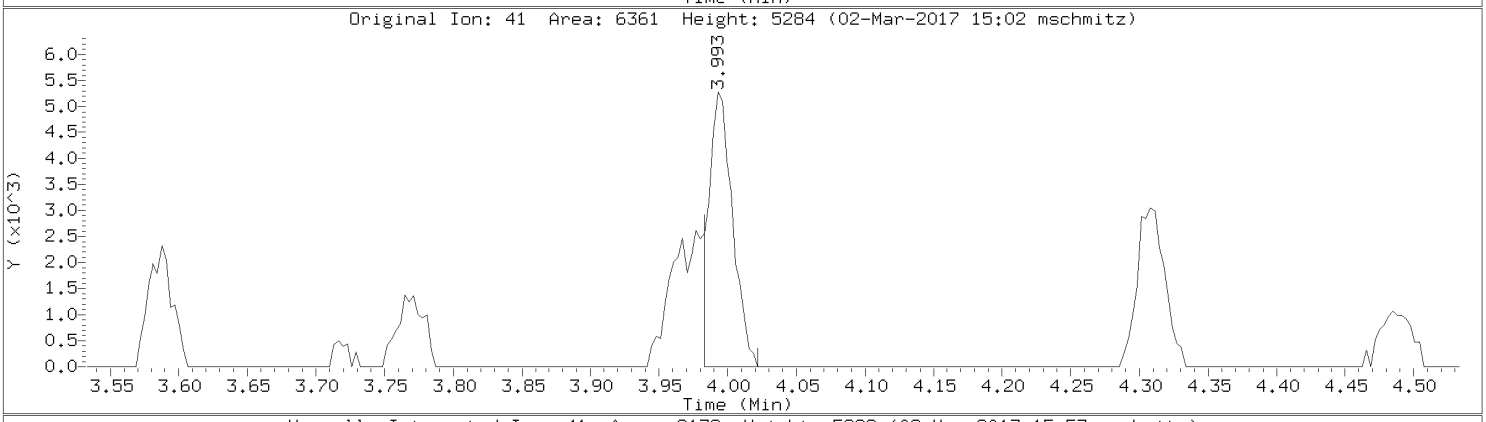


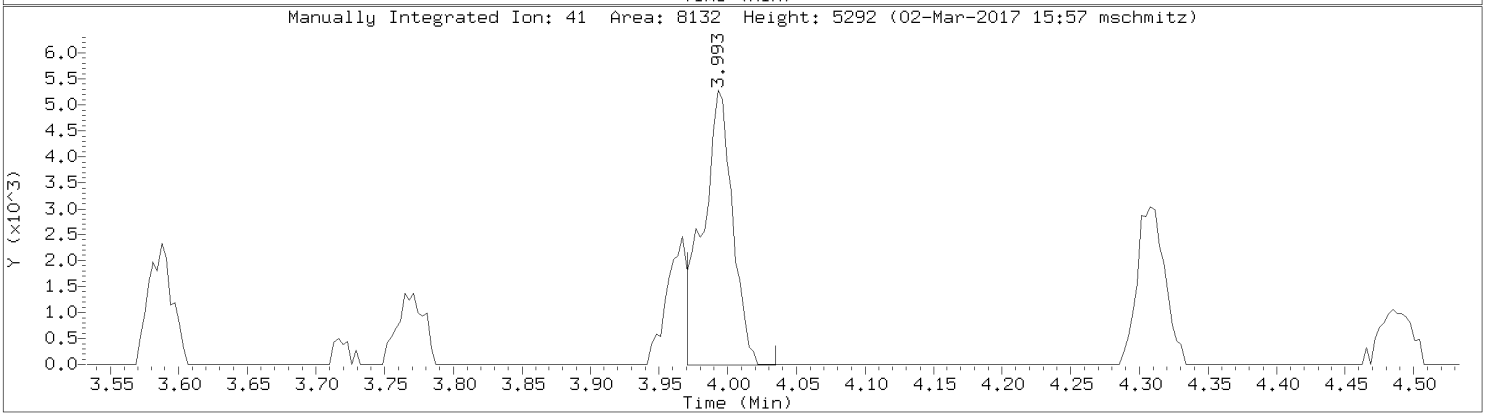
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Allyl Chloride
CAS Number: 107-05-1

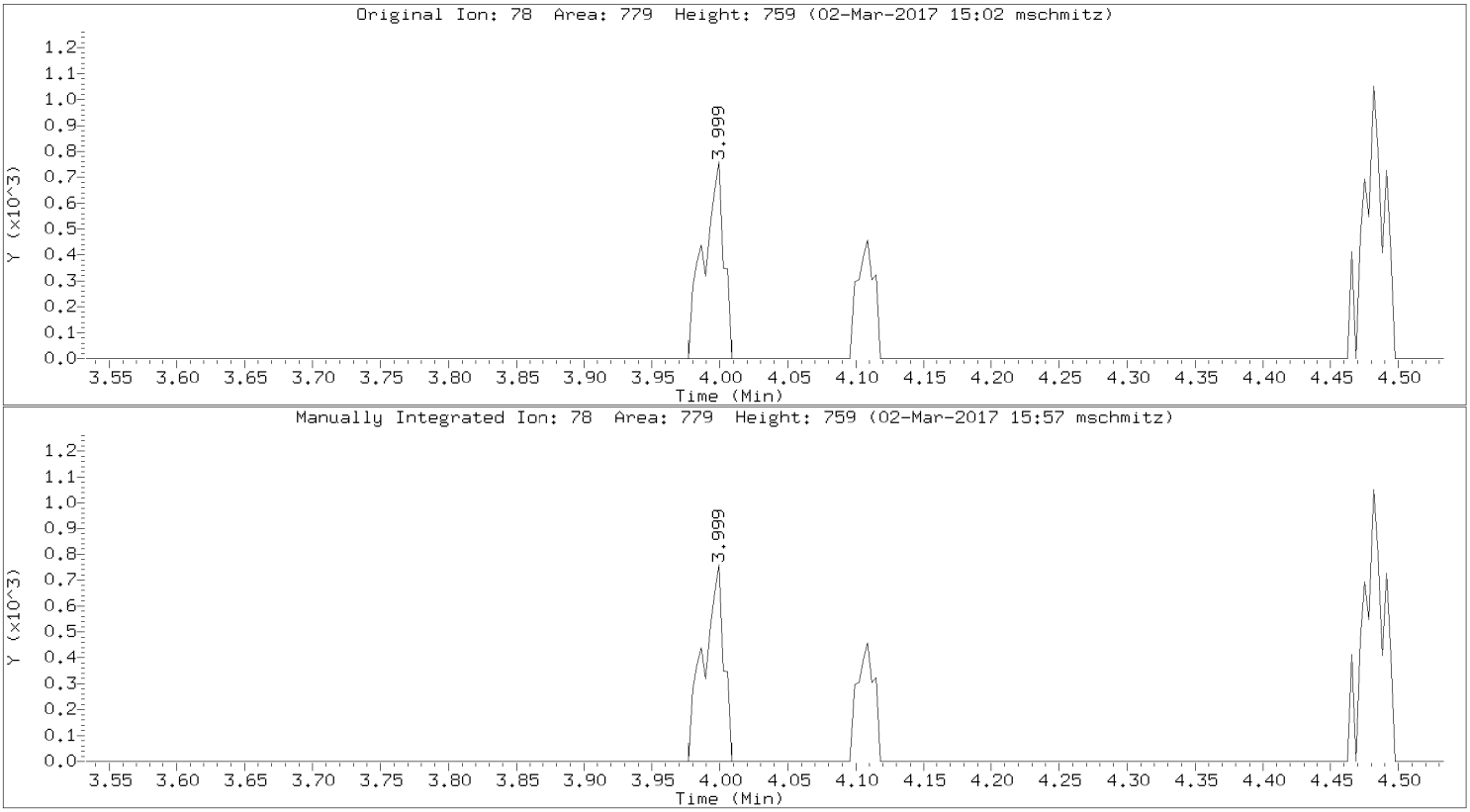






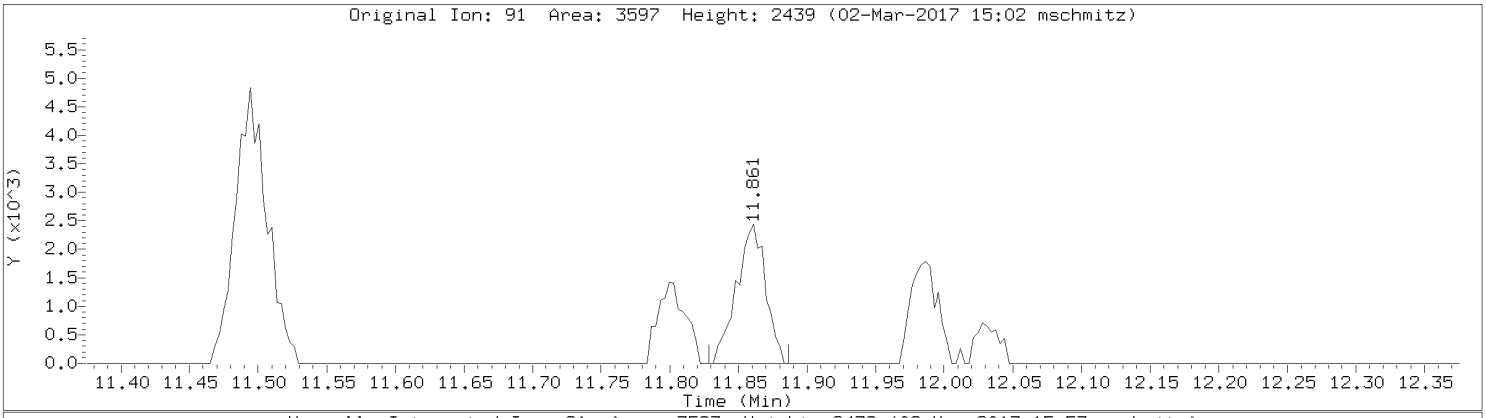


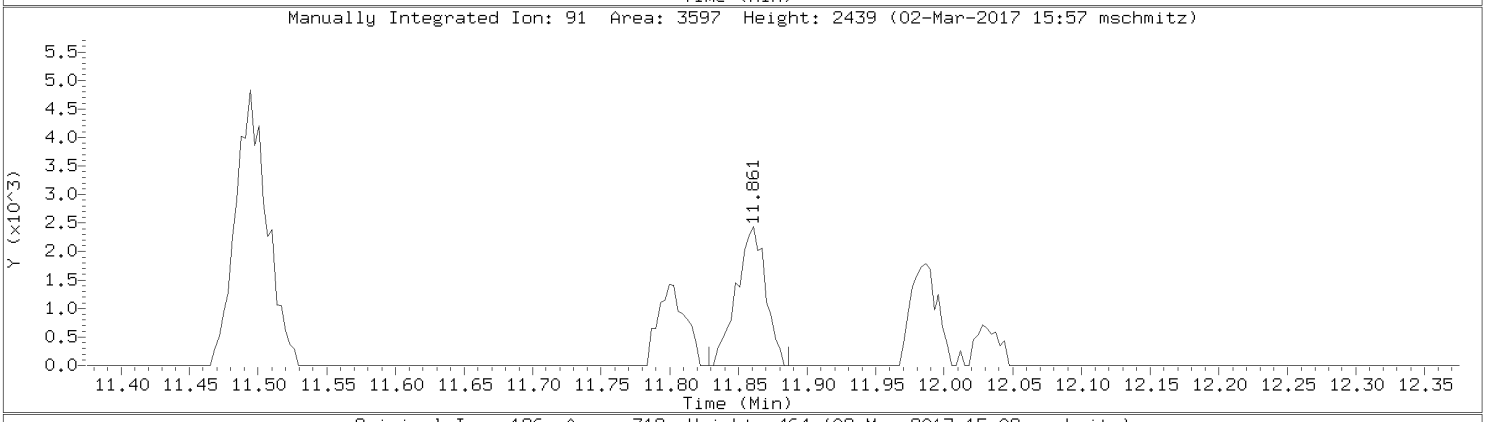
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

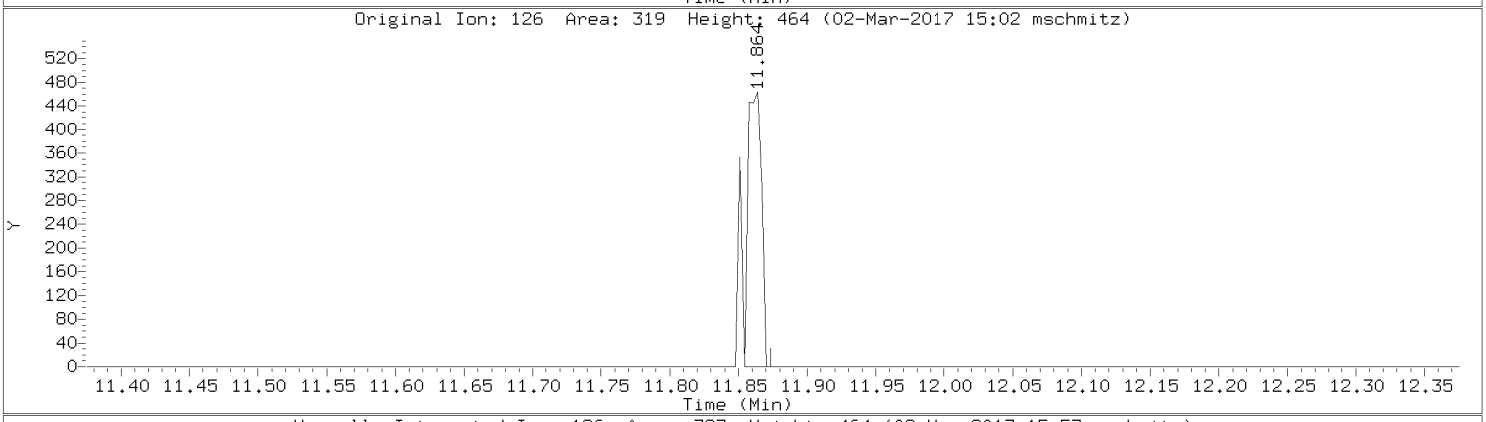


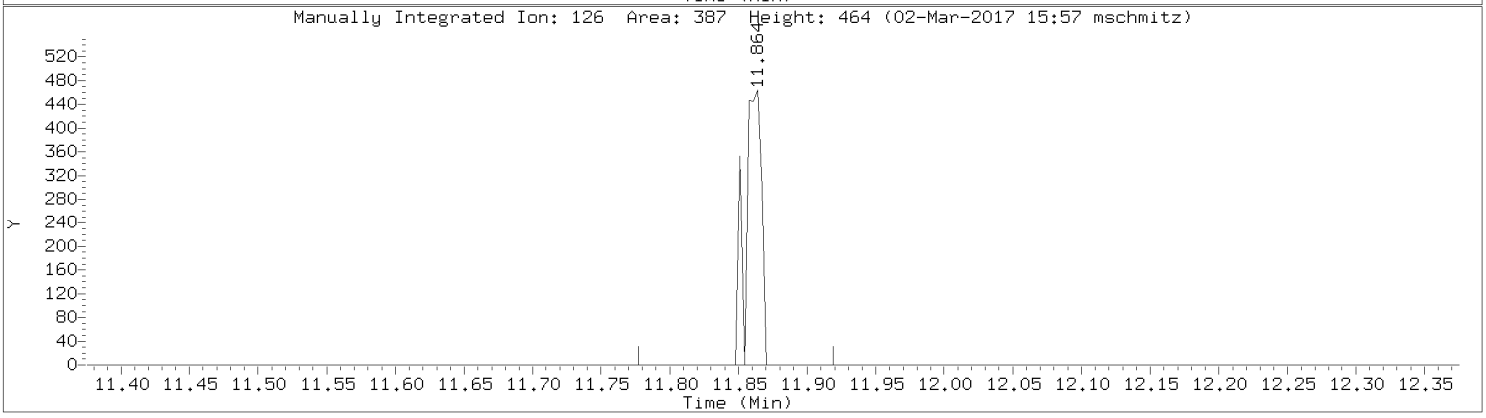
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Benzyl Chloride
CAS Number: 100-44-7



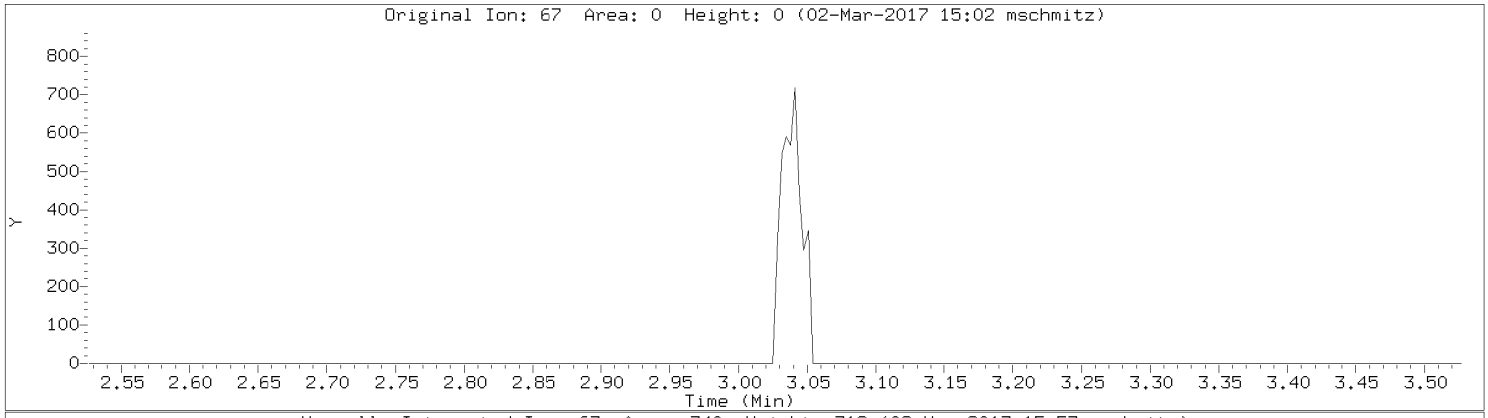


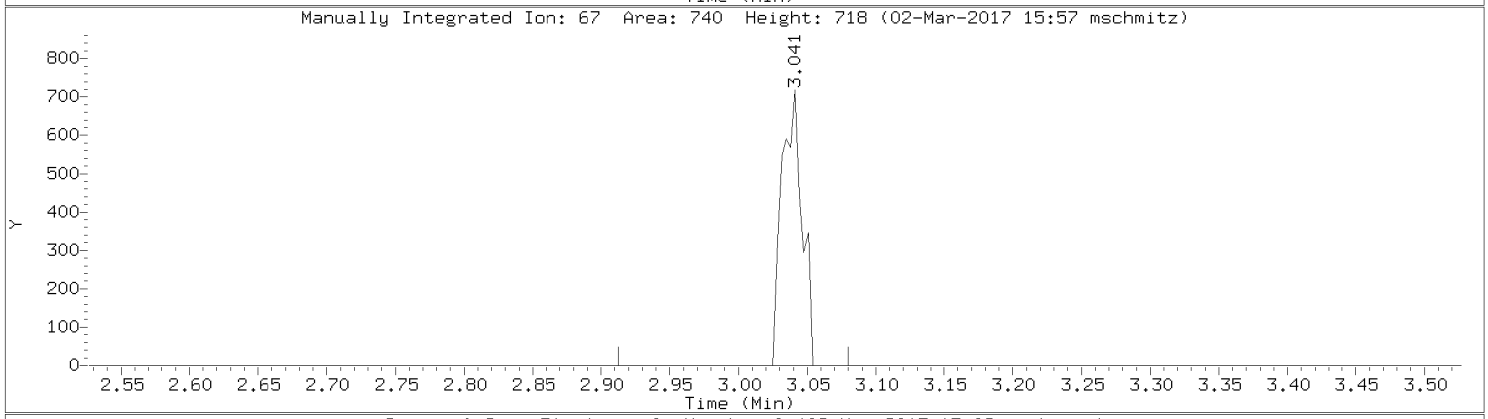


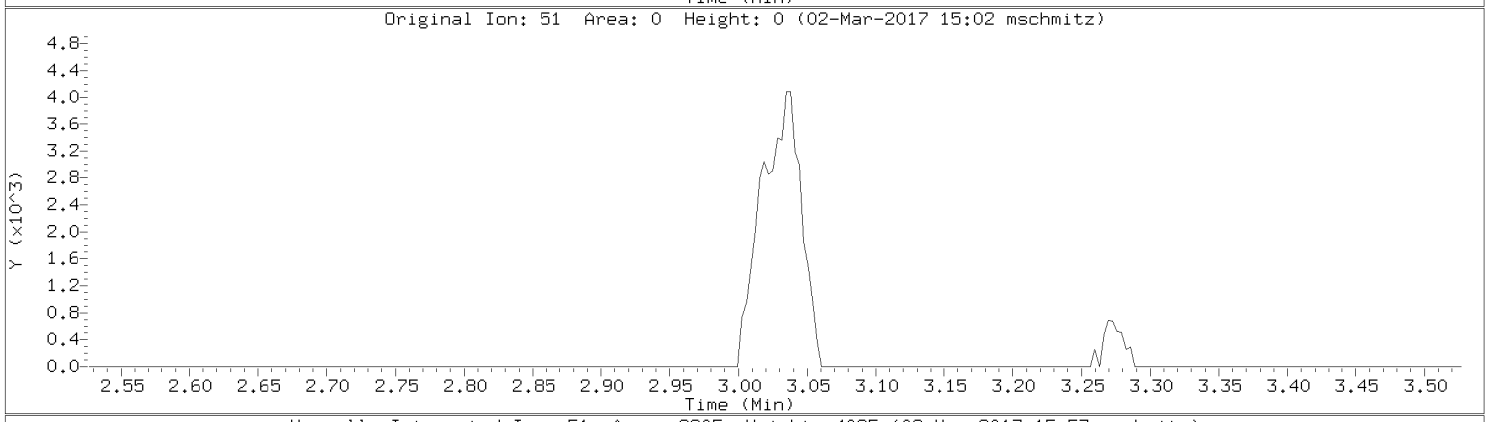


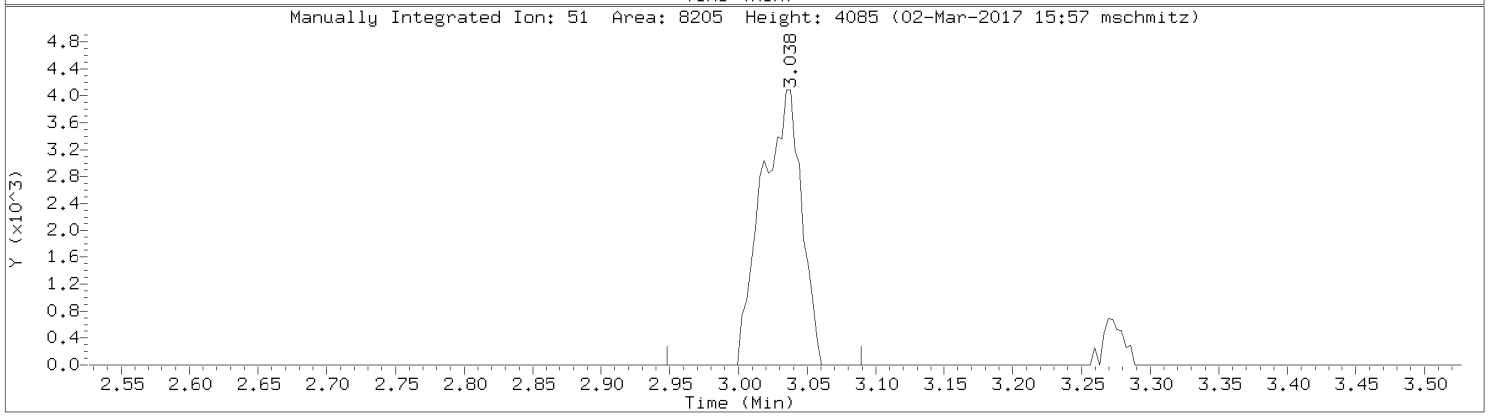
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

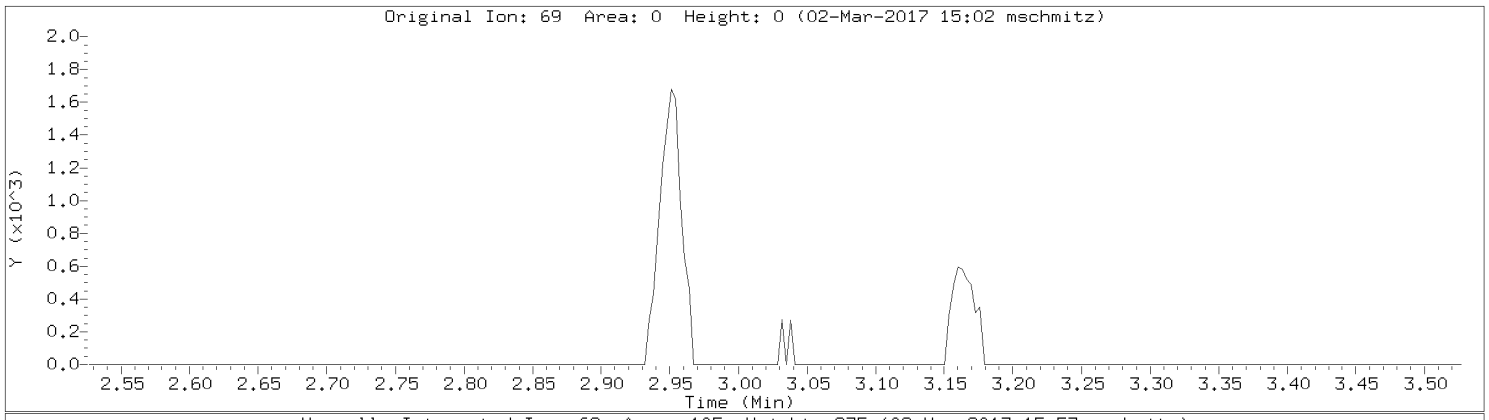


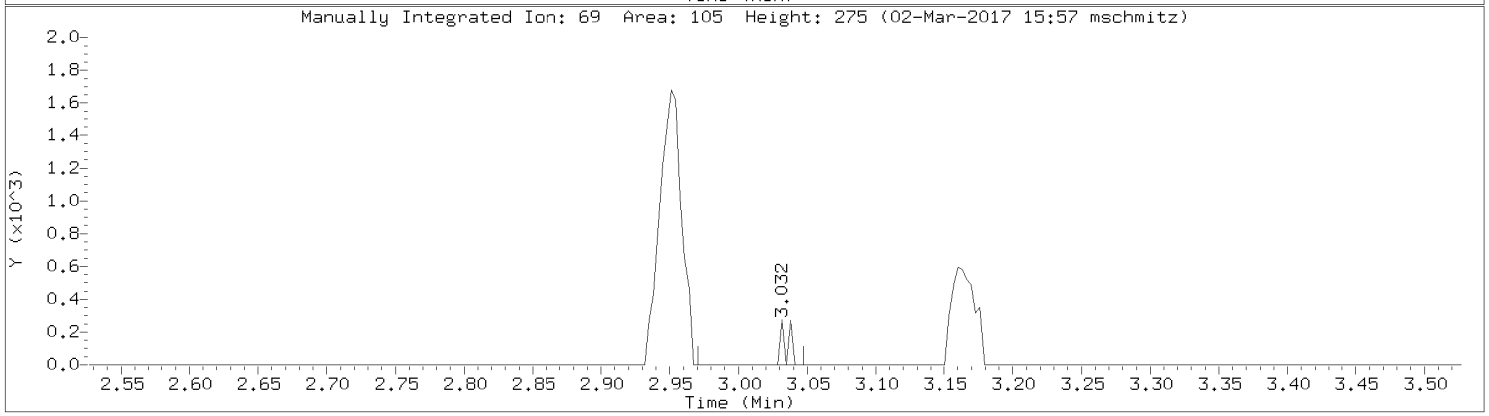






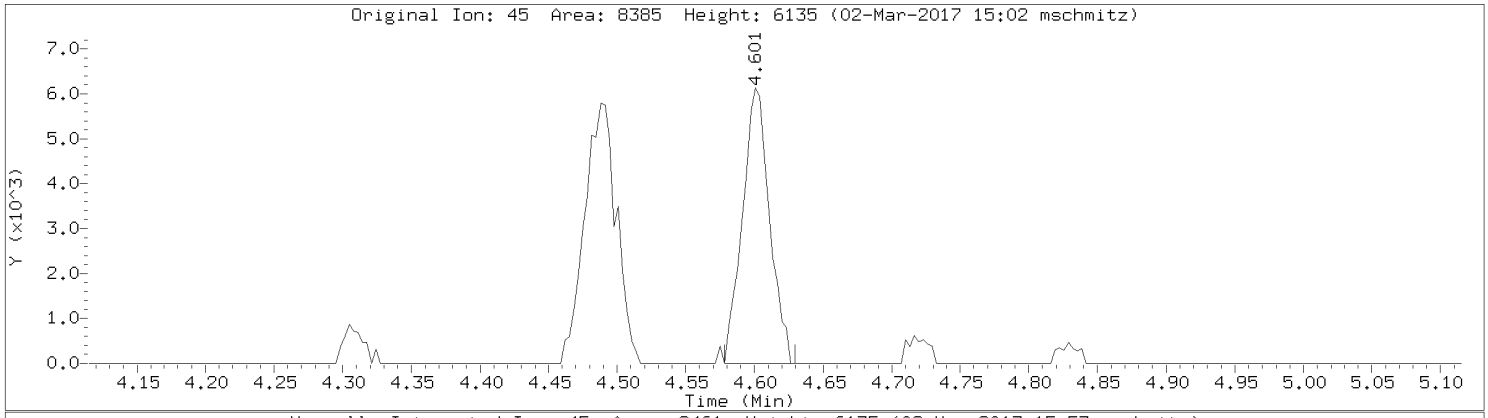
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

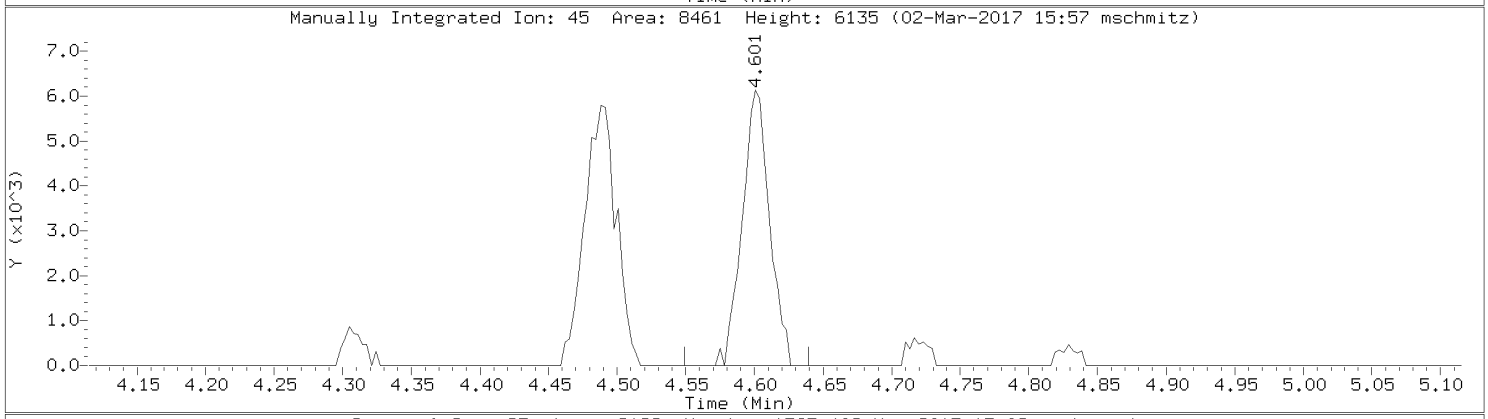


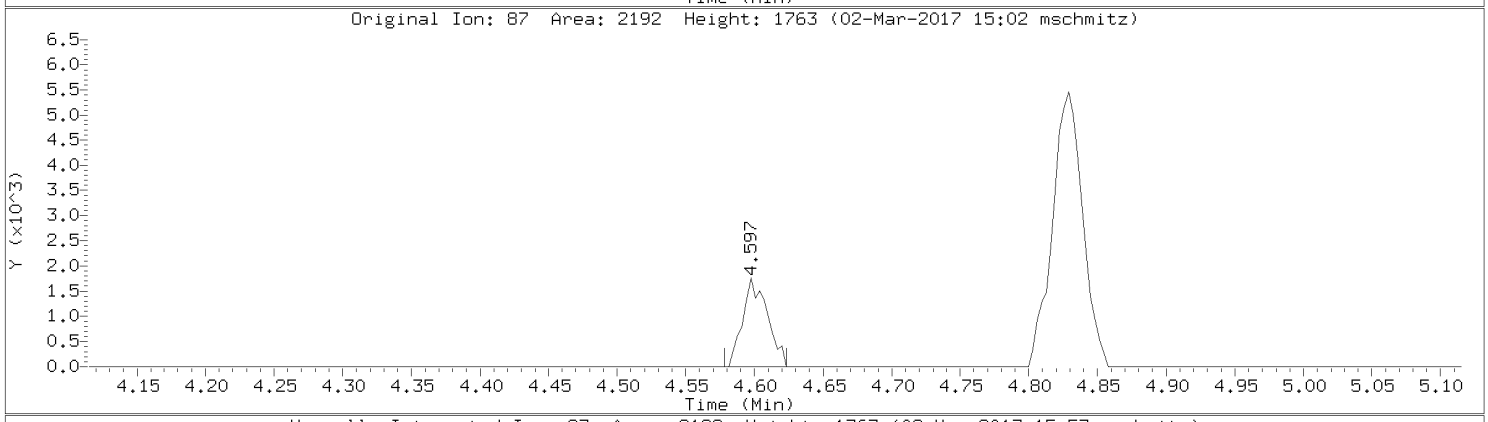


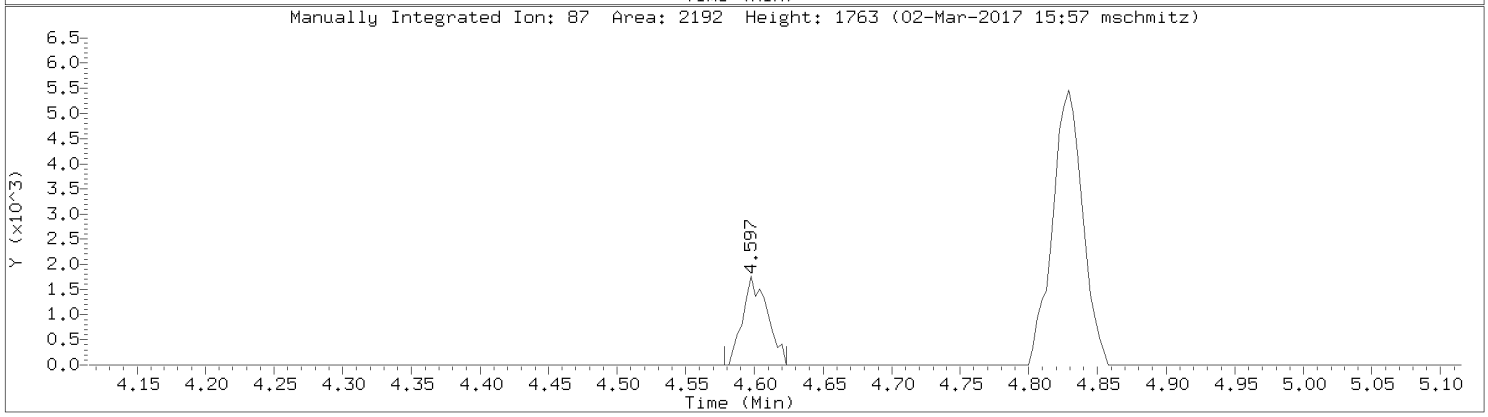
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Di-isopropyl Ether
CAS Number: 108-20-3

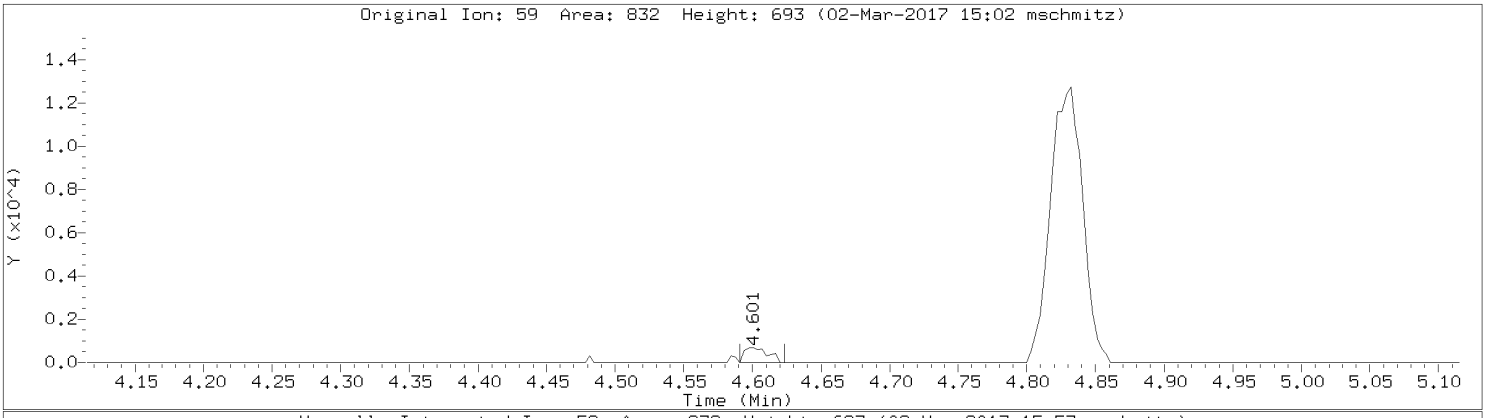


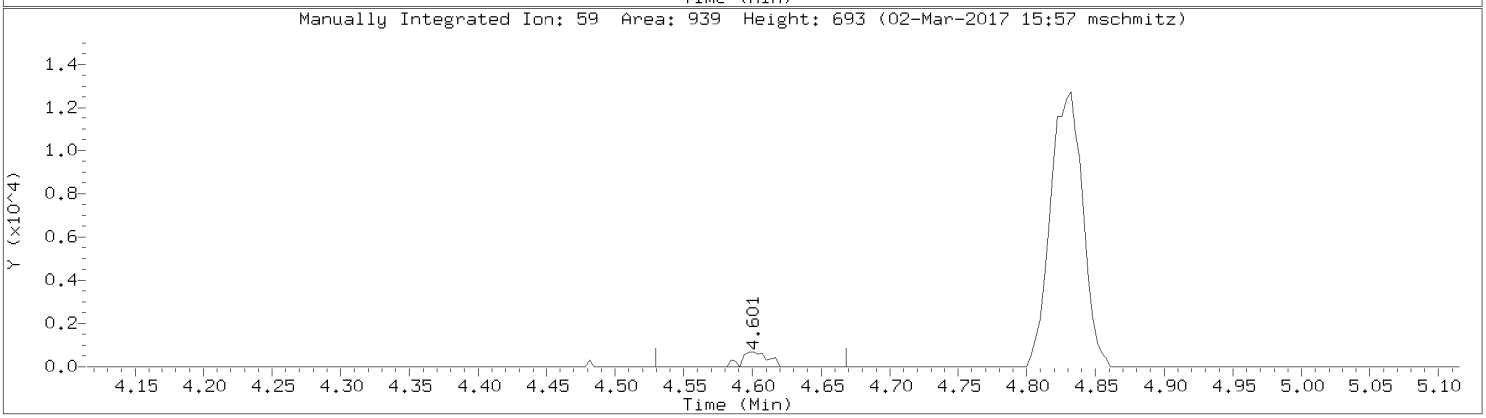






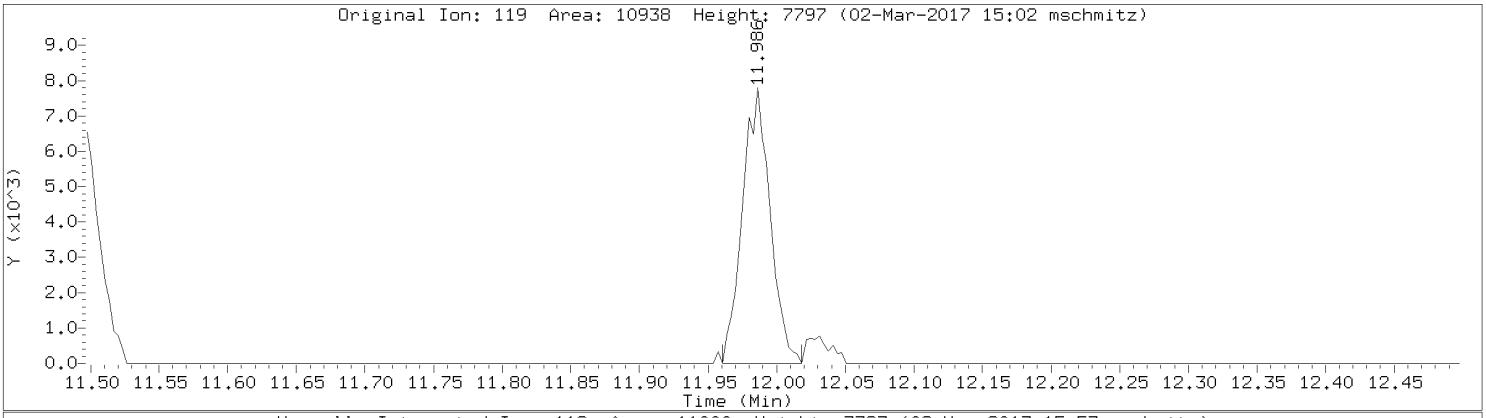
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

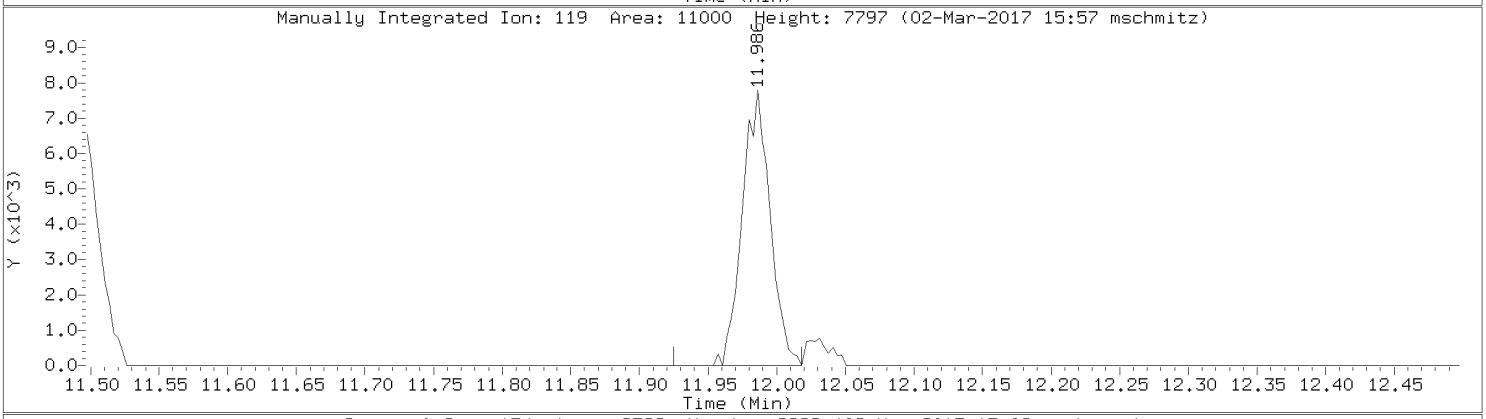


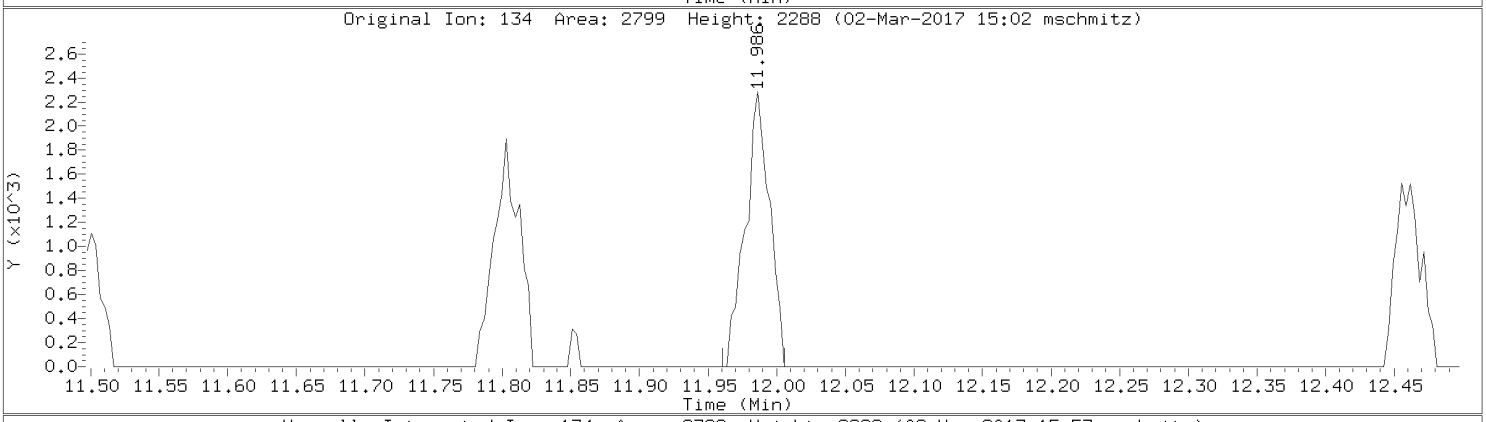


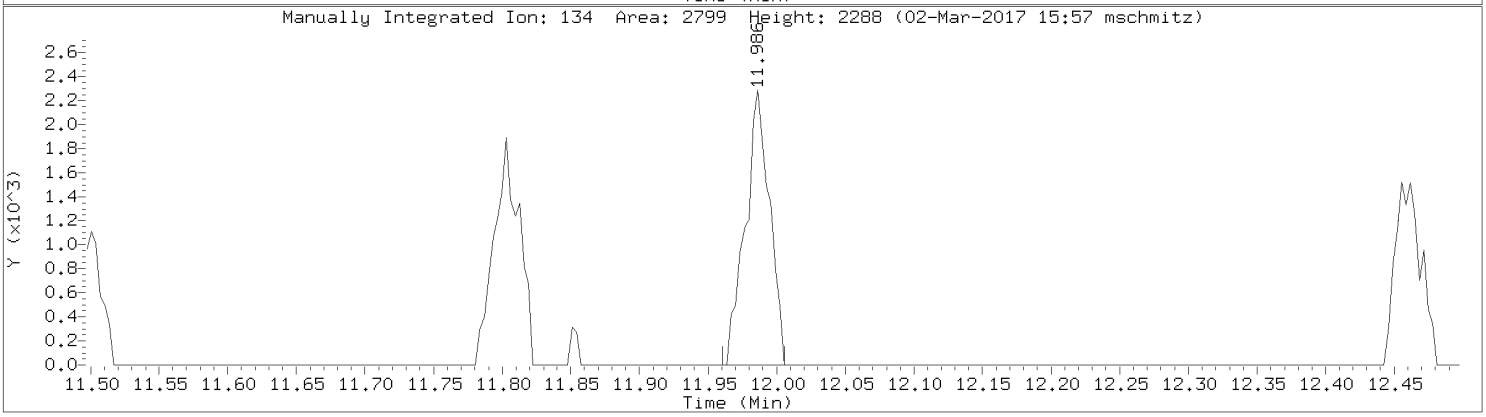
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: p-Isopropyltoluene
CAS Number: 99-87-6

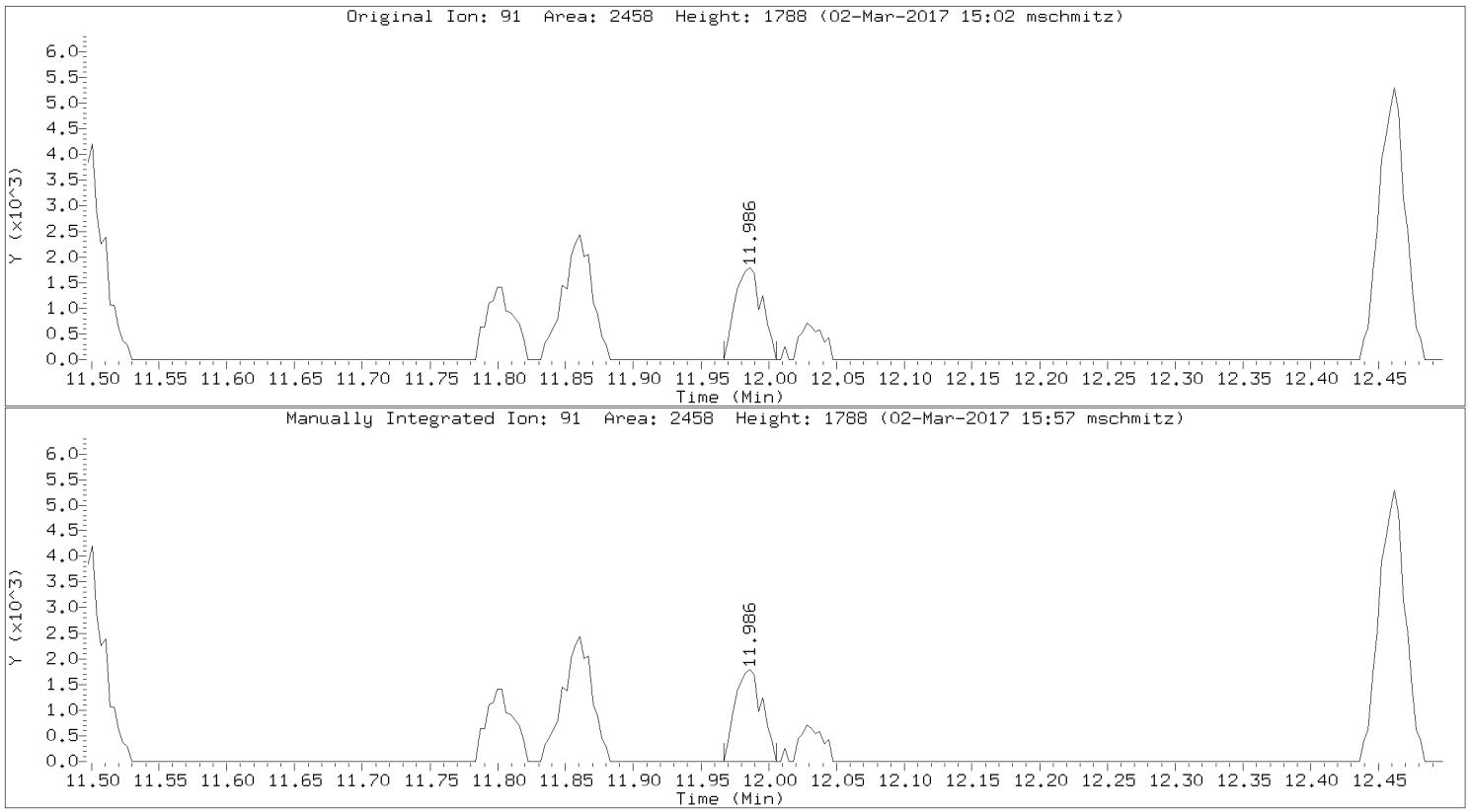








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Lab Smp Id: cal3
Inj Date : 02-MAR-2017 12:14
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:00 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 11:46 Cal File: 06110.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.915	2.915	(0.521)	3232	0.50000	0.431
2	1,1-Difluoroethane	65	2.983	2.983	(0.533)	4099	0.50000	0.501(QM)
3	Chlorodifluoromethane	67	3.005	3.005	(0.537)	2020	0.50000	0.475(QM)
4	Propylene	41	2.999	2.999	(0.536)	12525	0.50000	0.617
5	Dichlorodifluoromethane	85	3.034	3.034	(0.542)	20944	0.50000	0.453
6	Chloromethane	50	3.131	3.131	(0.559)	7549	0.50000	0.471
7	Dichlorotetrafluoroethane	85	3.137	3.137	(0.561)	18899	0.50000	0.488
8	Vinyl chloride	62	3.208	3.208	(0.573)	6947	0.50000	0.501
9	1,3-Butadiene	54	3.246	3.246	(0.580)	5105	0.50000	0.506
10	Bromomethane	94	3.385	3.385	(0.605)	5816	0.50000	0.454
11	Chloroethane	64	3.430	3.430	(0.613)	3156	0.50000	0.495
12	Ethanol	45	3.539	3.539	(0.632)	11951	2.50000	2.33
13	Vinyl Bromide	106	3.545	3.545	(0.633)	6226	0.50000	0.469
14	Isopentane	43	3.565	3.565	(0.637)	8126	0.50000	0.448(H)
15	Freon 123	83	3.581	3.581	(0.640)	15648	0.50000	0.987
16	Trichlorofluoromethane	101	3.639	3.639	(0.650)	18662	0.50000	0.487
17	Acrolein	56	3.664	3.664	(0.655)	4758	1.25000	1.12
18	Acetone	43	3.706	3.706	(0.662)	54960	2.50000	2.48
19	Isopropyl Alcohol	45	3.758	3.758	(0.671)	55961	2.50000	2.48
20	1,1-Dichloroethene	61	3.877	3.877	(0.693)	10524	0.50000	0.473
21	Acrylonitrile	53	3.896	3.896	(0.696)	12529	1.25000	1.22(M)
22	Freon 113	101	3.922	3.922	(0.701)	15039	0.50000	0.520
23	Methyl Acetate	43	3.944	3.944	(0.705)	16843	0.50000	0.499

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.706)	37120	1.25000	1.28(Q)
	25 Methylene chloride	49	3.973	3.973	(0.710)	39668	2.50000	2.54
	26 Allyl Chloride	76	3.986	3.986	(0.712)	5091	1.25000	1.12(Q)
	27 Carbon Disulfide	76	4.089	4.089	(0.731)	14262	0.50000	0.484
	28 trans-1,2-dichloroethene	96	4.246	4.246	(0.759)	6628	0.50000	0.531(M)
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.768)	45813	1.25000	1.29
	30 Vinyl Acetate	43	4.365	4.365	(0.780)	11738	0.50000	0.494(H)
	31 1,1-Dichloroethane	63	4.381	4.381	(0.783)	12421	0.50000	0.510
$	32 Hexane-d14(S)	66	4.475	4.475	(0.800)	439606	10.0000	9.90
	33 Methyl Ethyl Ketone	72	4.549	4.549	(0.813)	3113	0.50000	0.541(Q)
	34 n-Hexane	57	4.571	4.571	(0.817)	11001	0.50000	0.494(M)
	35 Di-isopropyl Ether	45	4.594	4.594	(0.821)	21409	0.50000	0.496
	36 Ethyl Acetate	43	4.713	4.713	(0.842)	14116	0.50000	0.493
	37 cis-1,2-Dichloroethene	96	4.693	4.693	(0.839)	6692	0.50000	0.479
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.862)	53479	1.25000	1.18
	39 Chloroform	83	4.812	4.812	(0.860)	14111	0.50000	0.488
	40 Tetrahydrofuran	42	4.999	4.999	(0.893)	7831	0.50000	0.506
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	16939	0.50000	0.498
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	13072	0.50000	0.506
	43 Benzene	78	5.446	5.446	(0.973)	23204	0.50000	0.515
	44 Carbon tetrachloride	117	5.465	5.465	(0.976)	16913	0.50000	0.497
	45 Cyclohexane	56	5.475	5.475	(0.978)	11802	0.50000	0.524
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(1.001)	35082	0.50000	0.510
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1396320	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.754	(1.028)	87605	1.25000	1.26
	49 Heptane	43	5.873	5.873	(1.049)	12303	0.50000	0.489
	50 1,2-Dichloropropane	63	5.951	5.951	(1.063)	8119	0.50000	0.498
	51 Trichloroethene	130	5.973	5.973	(1.067)	11856	0.50000	0.505
	52 Methyl methacrylate	69	6.041	6.041	(1.079)	6980	0.50000	0.457(Q)
	53 1,4-Dioxane	88	6.082	6.082	(1.087)	4959	0.50000	0.471
	54 Bromodichloromethane	83	6.069	6.069	(1.084)	15732	0.50000	0.473
	55 Methylcyclohexane	98	6.417	6.417	(1.146)	5684	0.50000	0.456
	56 Methyl Isobutyl Ketone	43	6.532	6.532	(1.167)	41535	1.25000	1.21
	57 cis-1,3-Dichloropropene	75	6.581	6.581	(1.176)	11439	0.50000	0.499
	58 trans-1,3-Dichloropropene	75	6.976	6.976	(1.246)	9313	0.50000	0.452
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	1210085	10.0000	9.68
	60 1,1,2-Trichloroethane	97	7.131	7.131	(1.274)	9514	0.50000	0.508
	61 Toluene	91	7.143	7.143	(1.276)	28037	0.50000	0.497
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.854)	35043	1.25000	1.21
	63 n-Octane	43	7.574	7.574	(0.877)	15848	0.50000	0.505
	64 Dibromochloromethane	129	7.671	7.671	(0.888)	14525	0.50000	0.445
	65 1,2-Dibromoethane	107	7.899	7.899	(0.914)	14648	0.50000	0.495
	66 Tetrachloroethene	166	7.979	7.979	(0.924)	16369	0.50000	0.514
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	916612	10.0000	
	68 Chlorobenzene	112	8.677	8.677	(1.004)	23064	0.50000	0.507
	69 Ethyl Benzene	91	8.928	8.928	(1.033)	34544	0.50000	0.512
	70 m&p-Xylene	91	9.073	9.073	(1.050)	53813	1.00000	1.02
	71 n-Nonane	43	9.465	9.465	(1.096)	13912	0.50000	0.510
	72 Bromoform	173	9.471	9.471	(1.096)	10681	0.50000	0.457
	73 Styrene	104	9.503	9.503	(1.100)	19327	0.50000	0.490
	74 o-Xylene	91	9.574	9.574	(1.108)	26767	0.50000	0.497
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	14184	0.50000	0.478
	76 Isopropylbenzene	105	10.153	10.153	(1.175)	37854	0.50000	0.497
	77 N-Propylbenzene	91	10.735	10.735	(1.243)	35990	0.50000	0.442

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	30251	0.50000	0.469
79	1,3,5-Trimethylbenzene	105	10.995	10.995	(1.273)	28097	0.50000	0.453
80	n-Decane	57	11.375	11.375	(2.032)	11603	0.50000	0.555
81	Tert-Butyl Benzene	119	11.490	11.490	(1.330)	30974	0.50000	0.509
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	26568	0.50000	0.488
83	1,3-Dichlorobenzene	146	11.790	11.790	(1.365)	16619	0.50000	0.420
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	37562	0.50000	0.493
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.372)	463747	10.0000	9.18
86	Benzyl Chloride	91	11.860	11.860	(1.373)	9078	0.50000	0.508
87	1,4-Dichlorobenzene	146	11.883	11.883	(1.376)	16868	0.50000	0.473(M)
88	p-Isopropyltoluene	119	11.982	11.982	(1.387)	31230	0.50000	0.425
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	26293	0.50000	0.489
90	1,2-Dichlorobenzene	146	12.275	12.275	(1.421)	14338	0.50000	0.457
91	N-Butylbenzene	91	12.458	12.458	(1.442)	20942	0.50000	0.353
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	3096	0.50000	0.404
93	1,2,4-Trichlorobenzene	180	14.043	14.043	(1.626)	2447	0.50000	0.536(Q)
94	Naphthalene	128	14.172	14.172	(1.641)	7018	0.50000	0.524
95	Hexachlorobutadiene	225	14.416	14.416	(1.669)	7964	0.50000	0.501

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06111.D
Lab Smp Id: cal3
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1396320	-1.26
67 Chlorobenzene - d	951026	570616	1331436	916612	-3.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D

Date : 02-MAR-2017 12:14

Client ID:

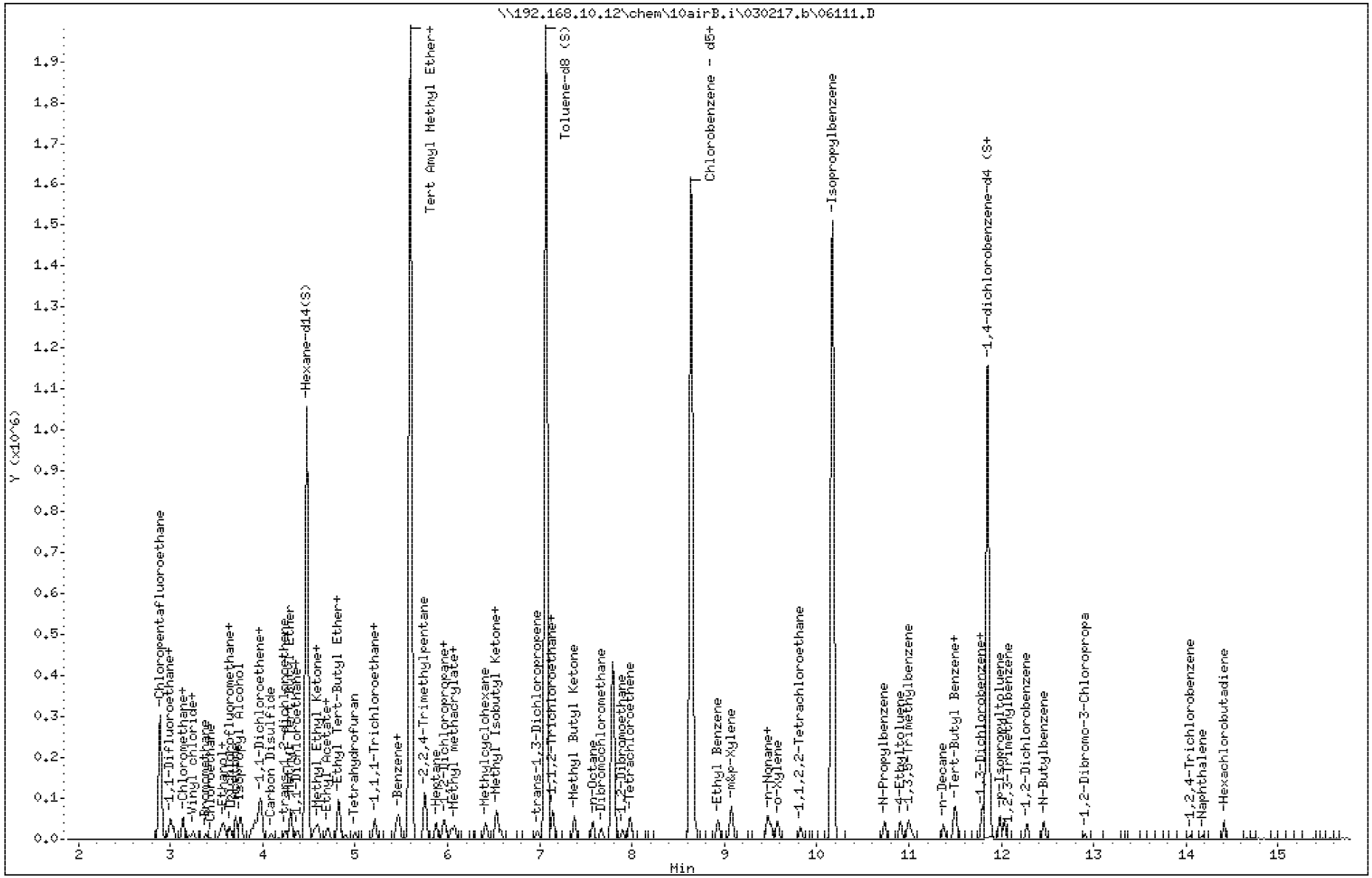
Instrument: 10airB.i

Sample Info:

Operator: MLS

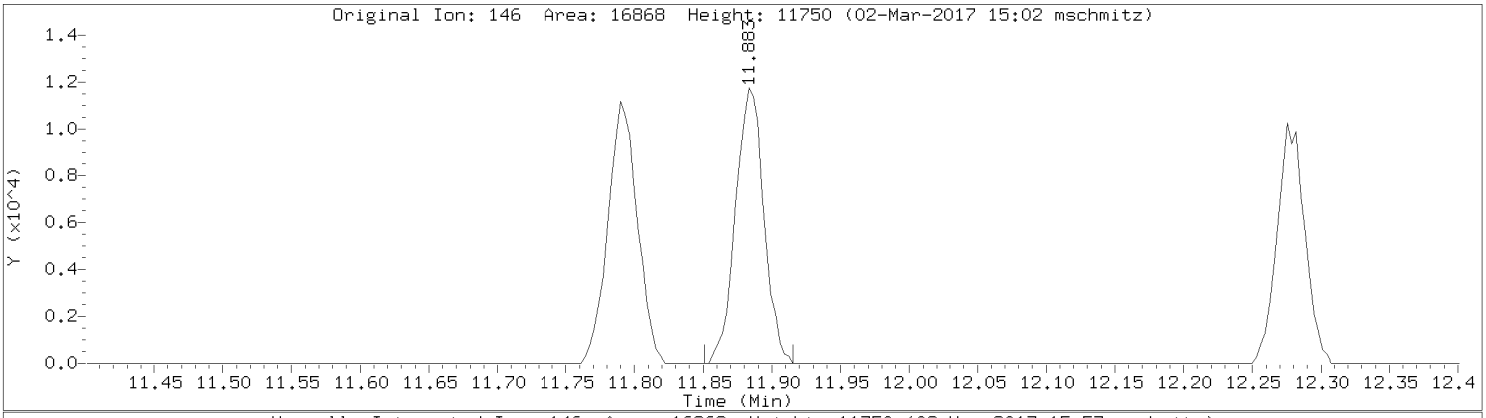
Column phase: J&W DB-5

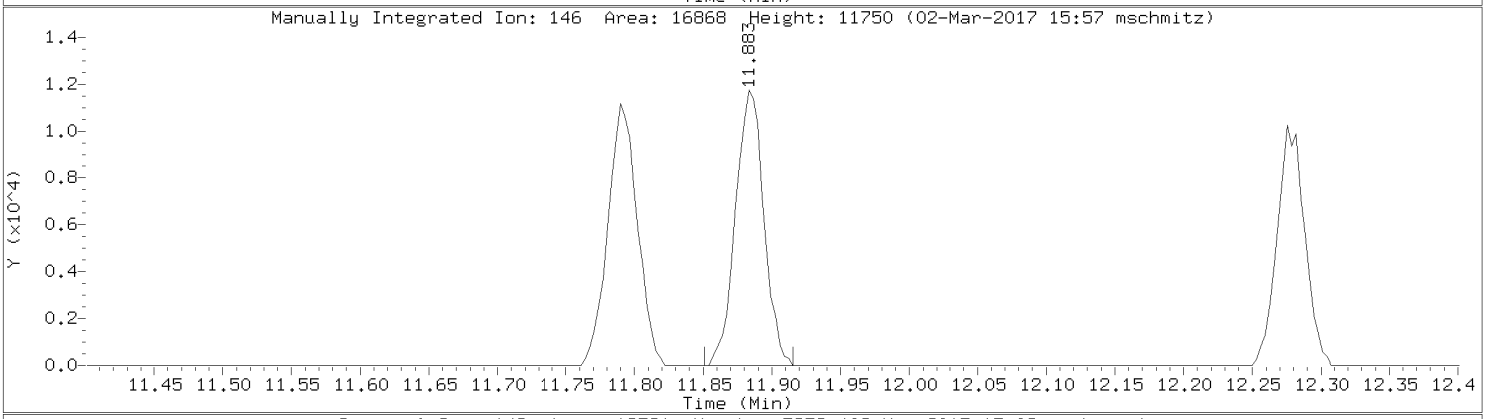
Column diameter: 0.32

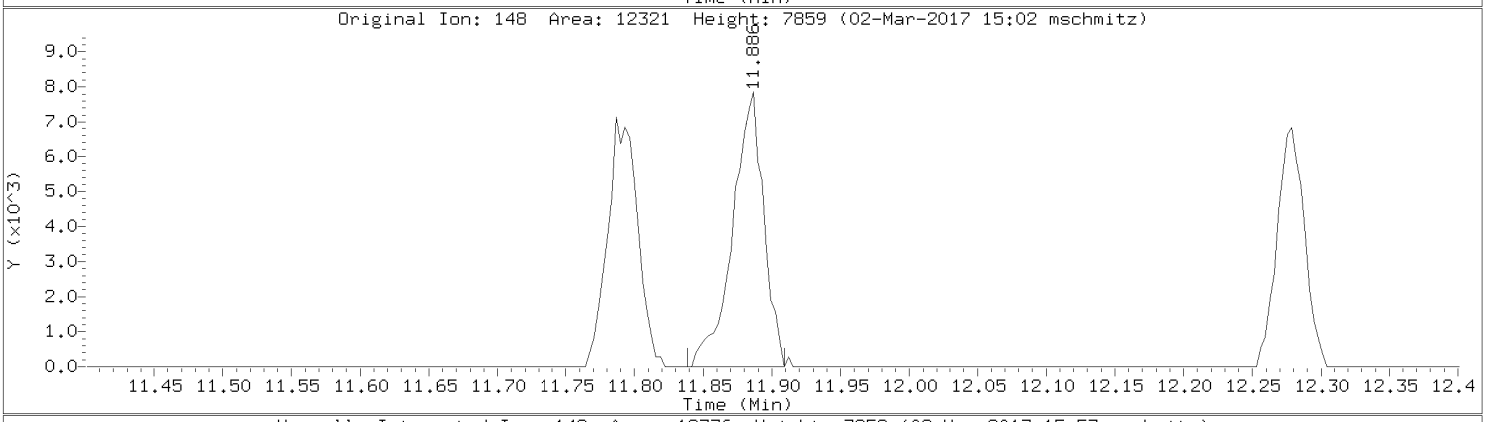


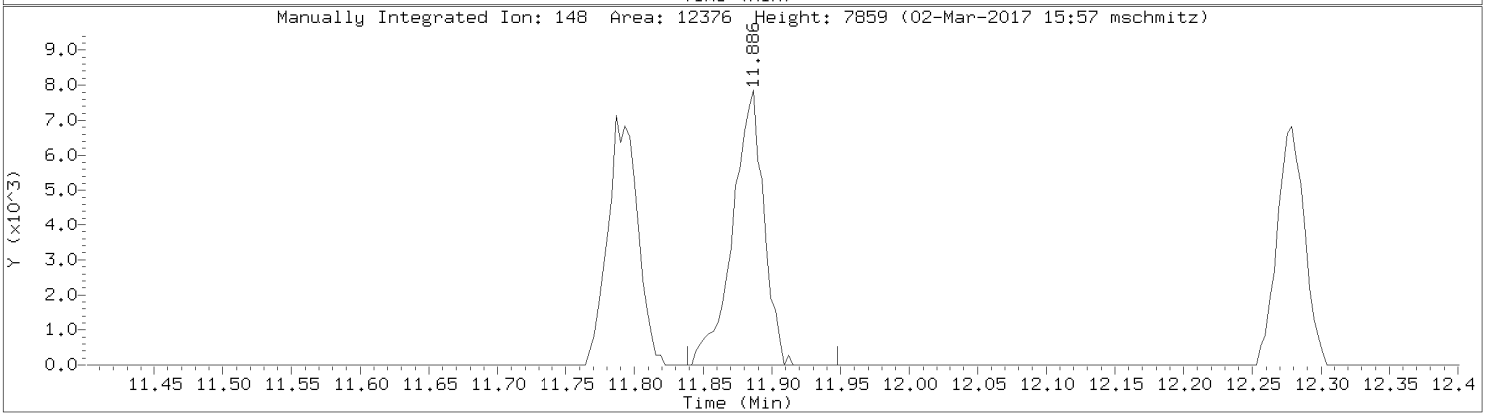
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

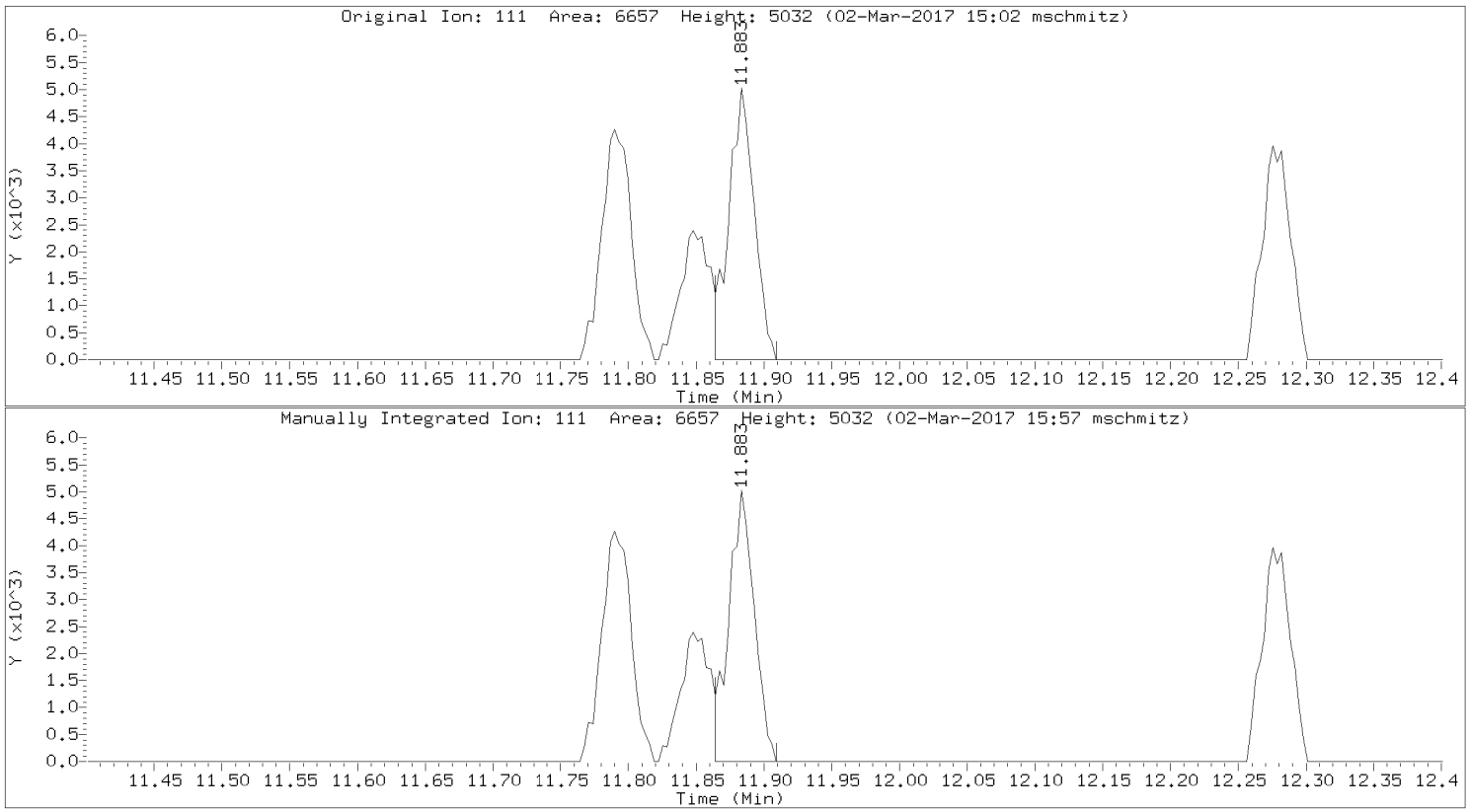






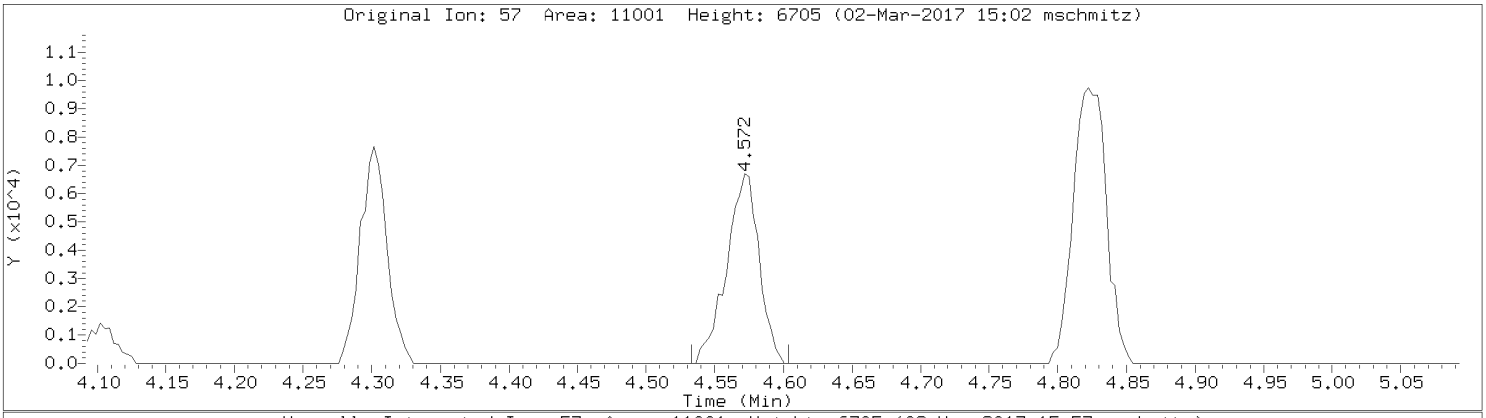


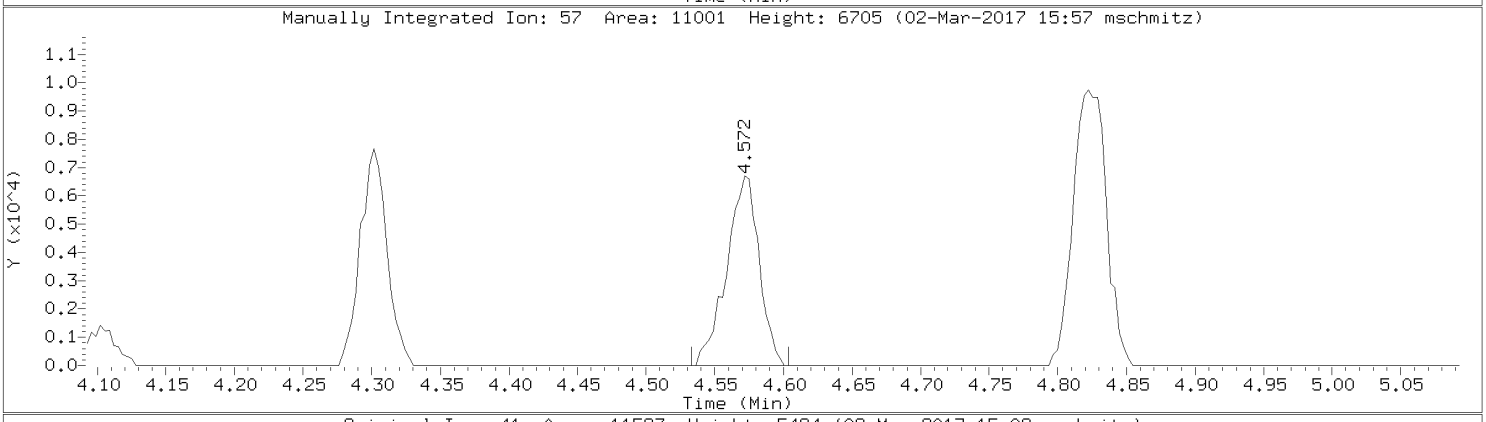
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

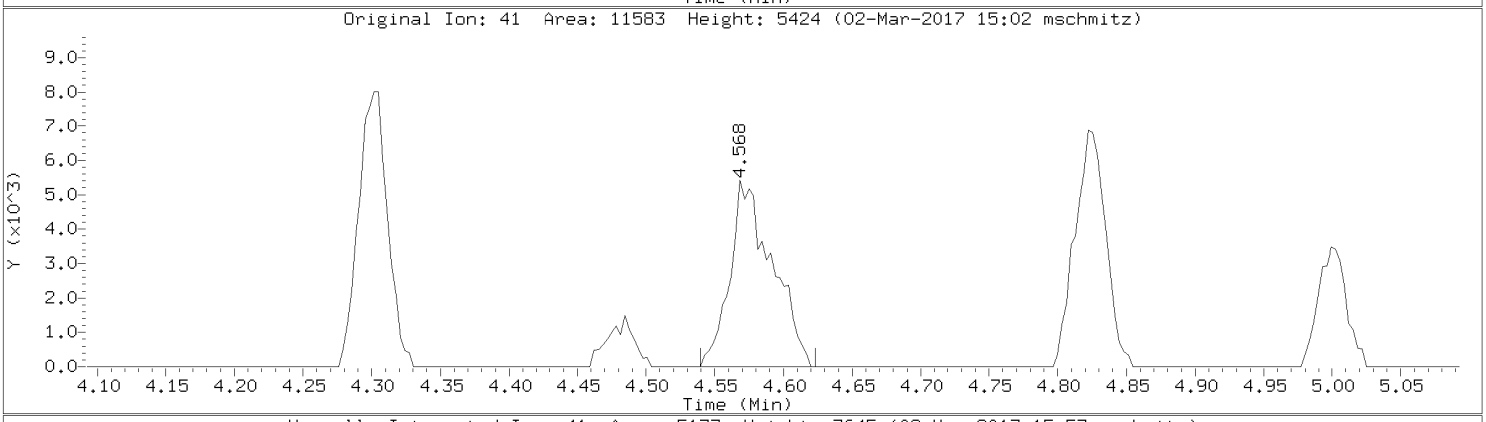


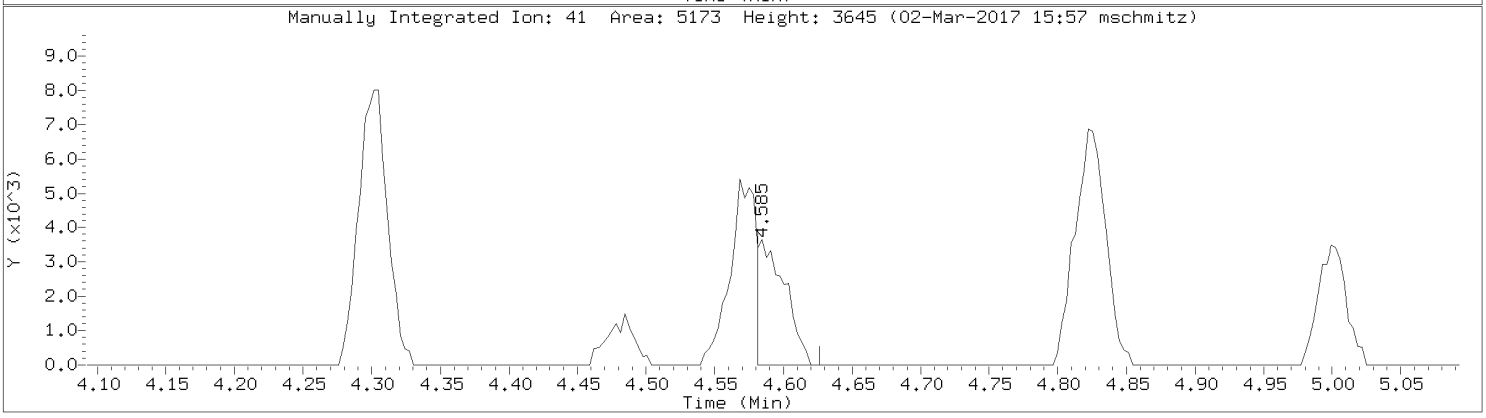
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: n-Hexane
CAS Number: 110-54-3

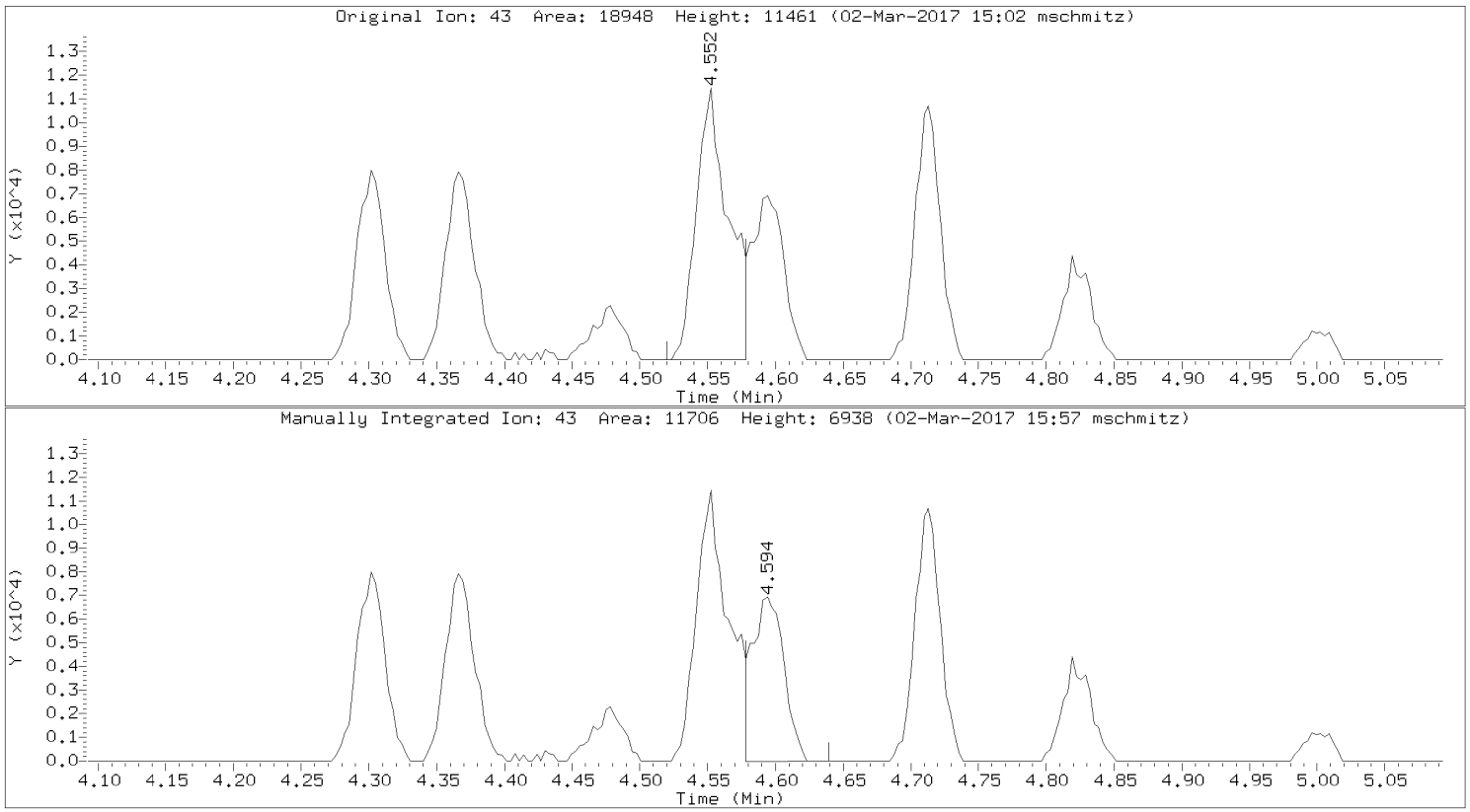






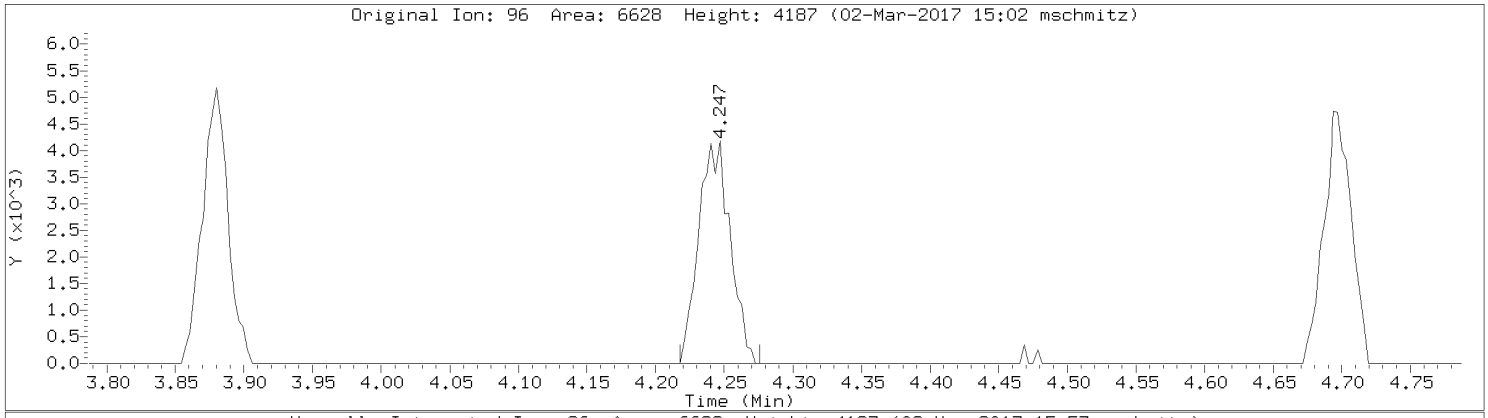


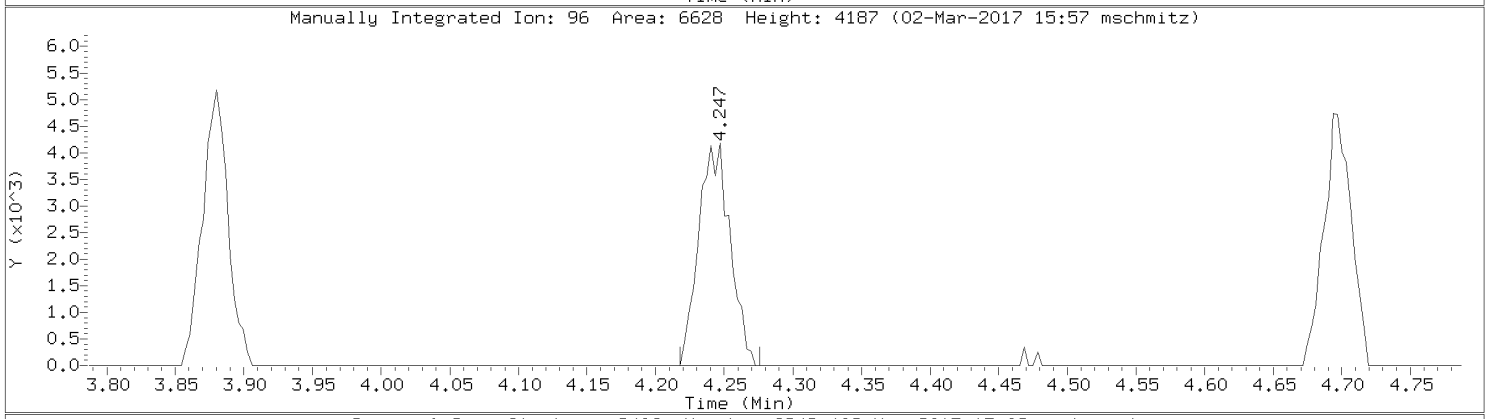
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

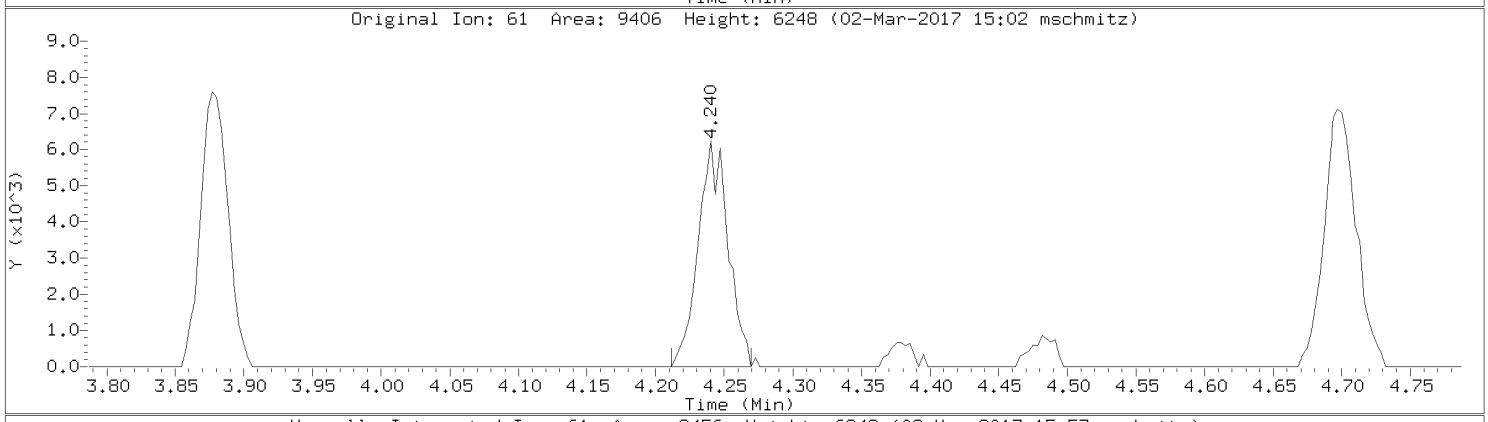


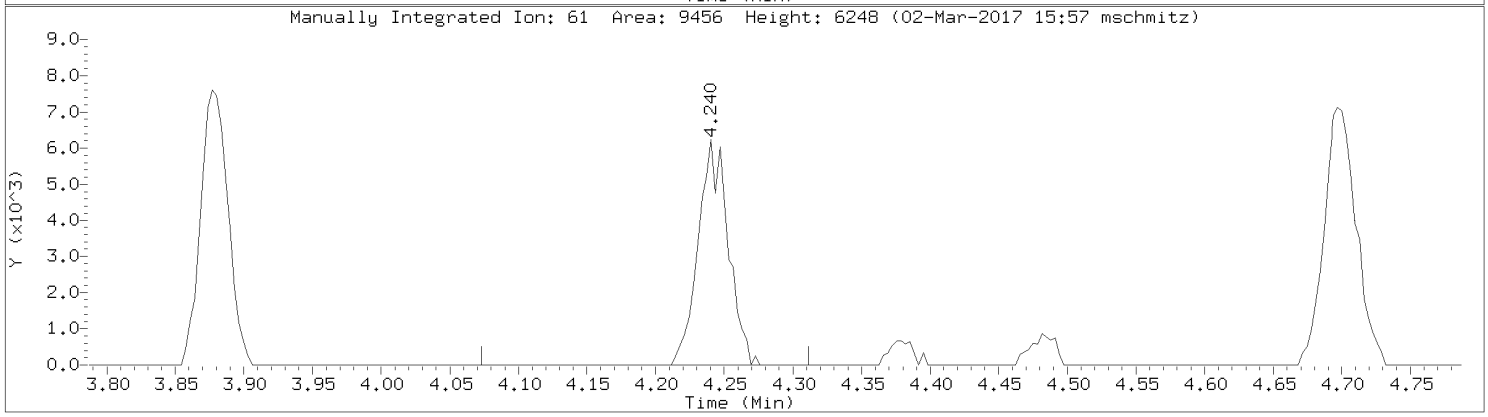
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: trans-1,2-dichloroethene
CAS Number: 156-60-5

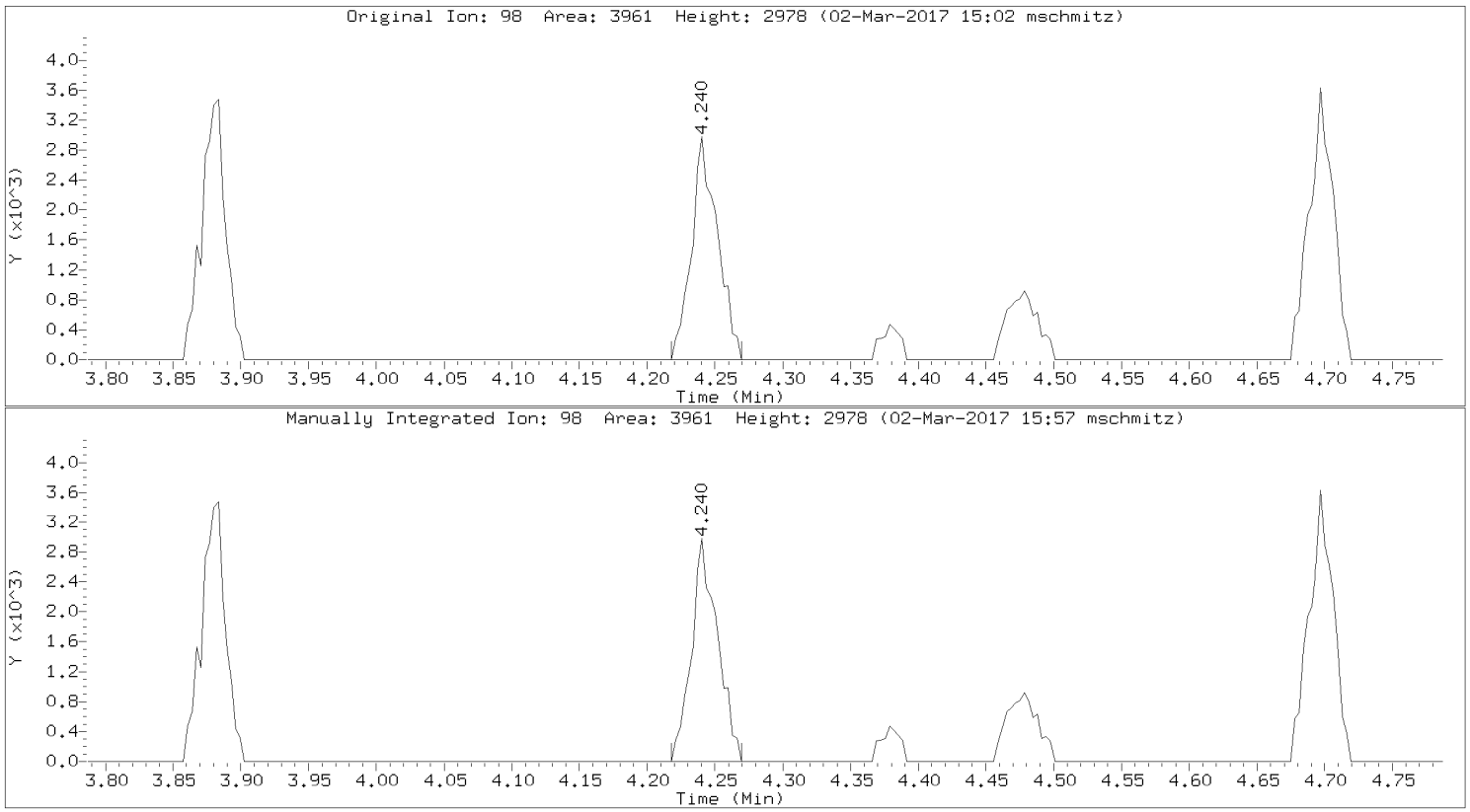






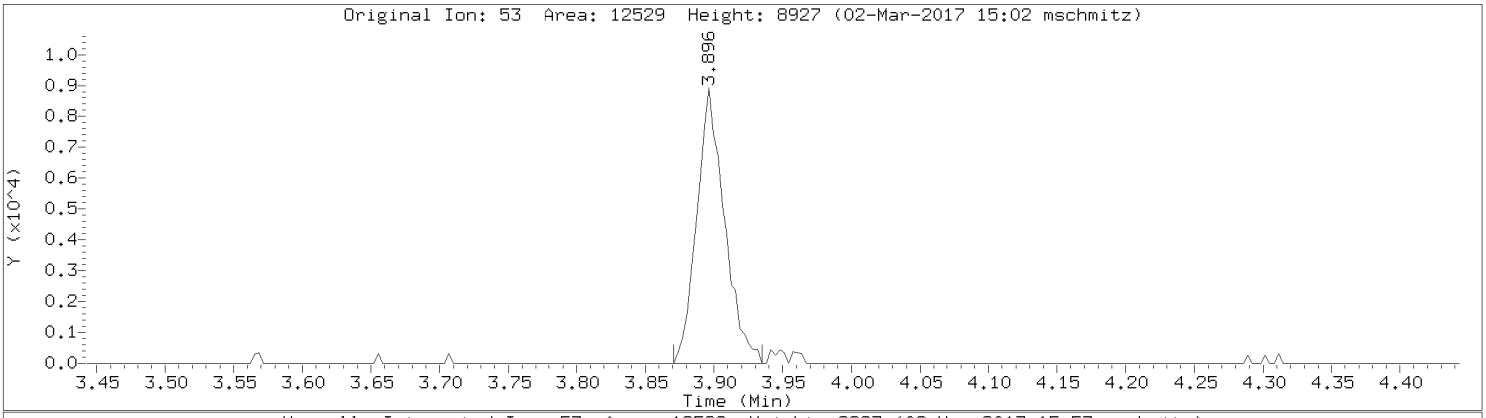


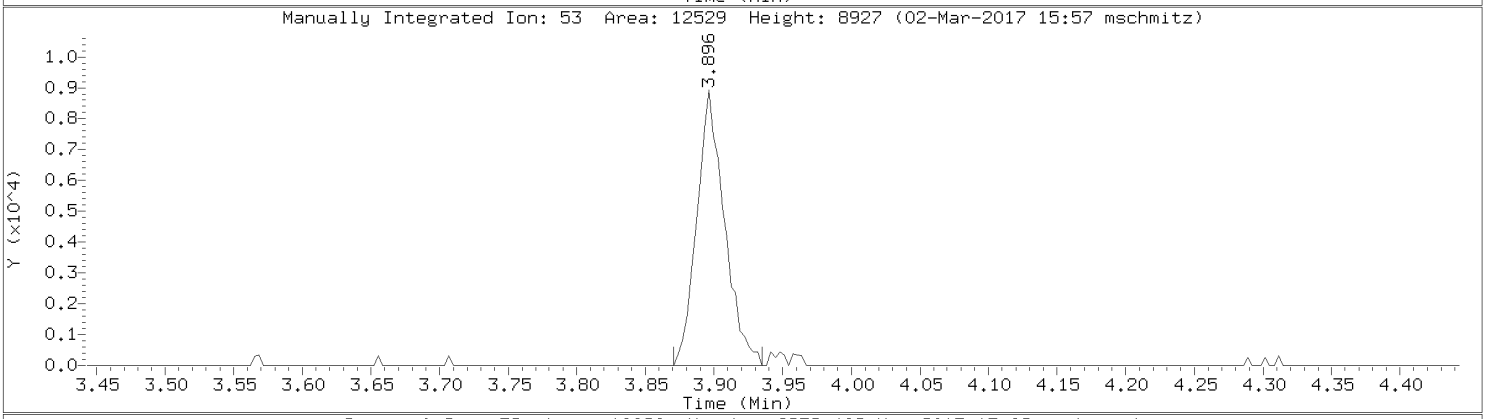
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

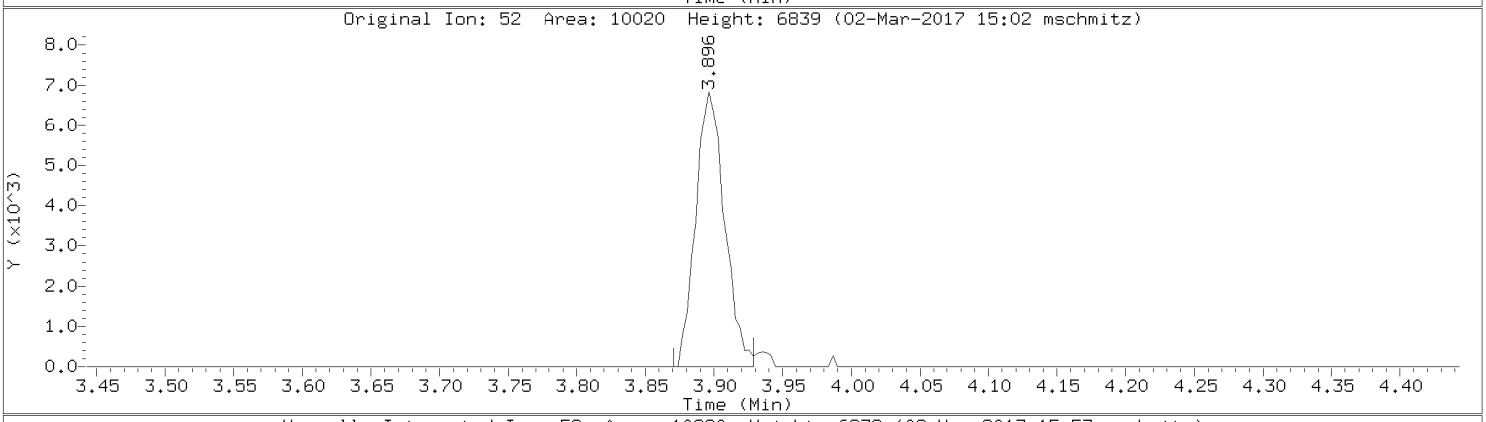


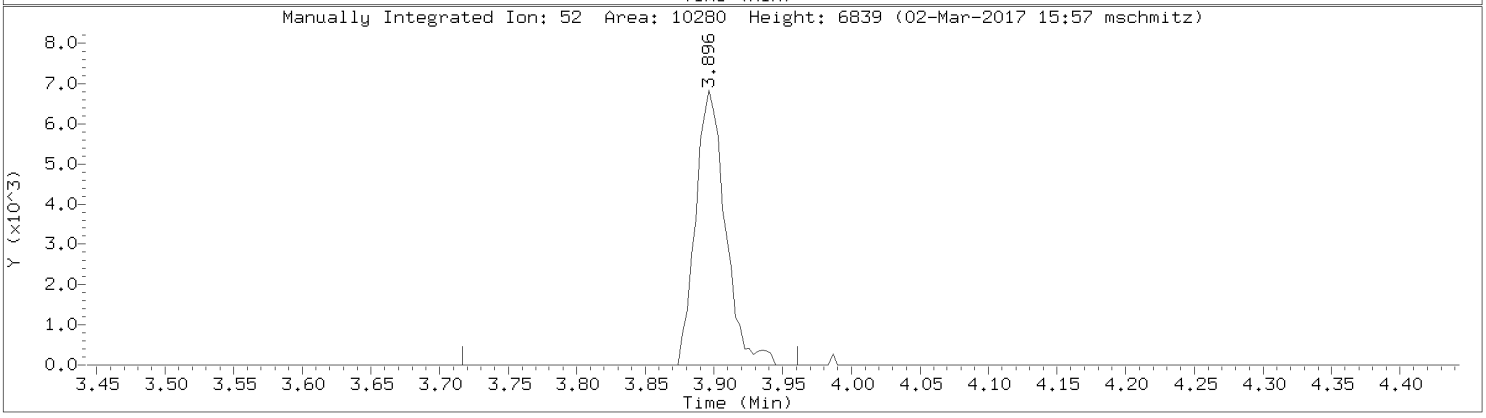
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Acrylonitrile
CAS Number: 107-13-1



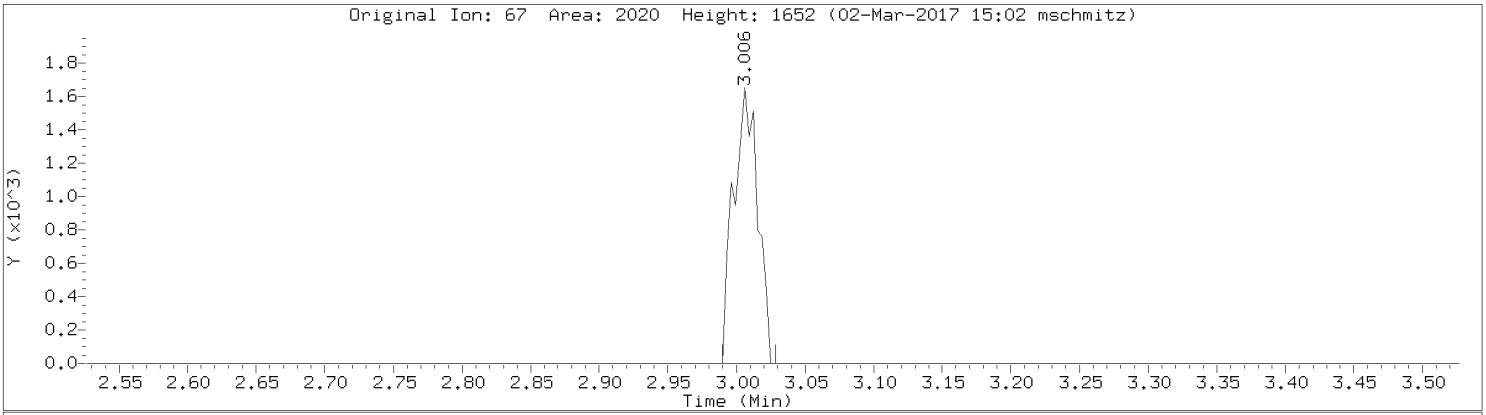


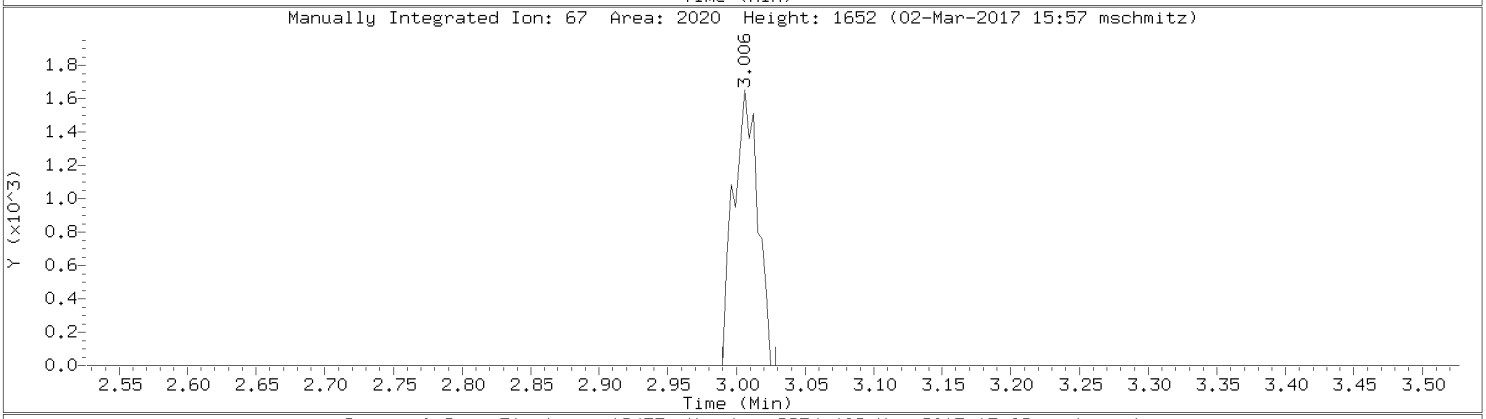


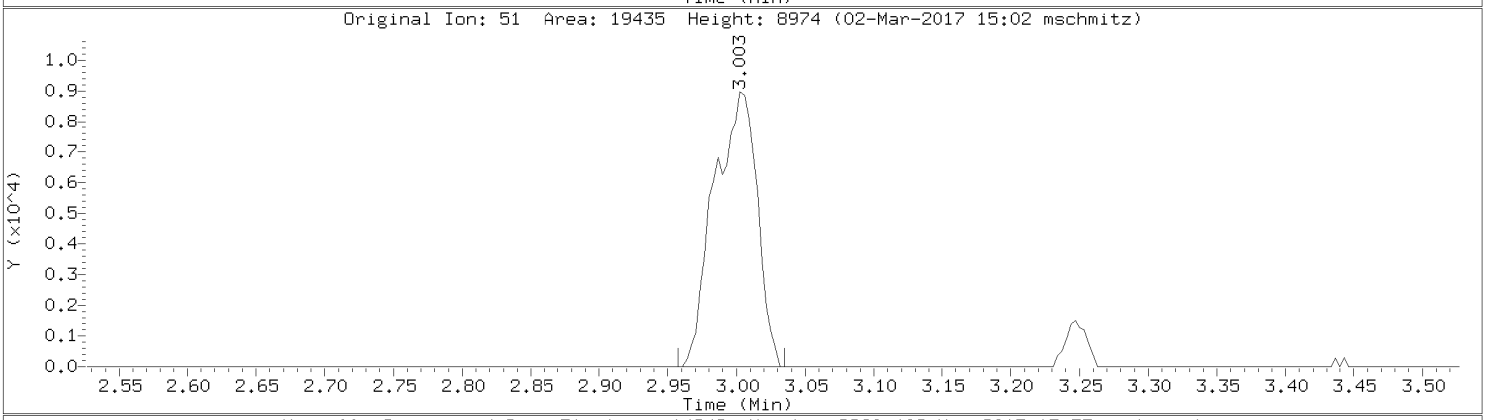


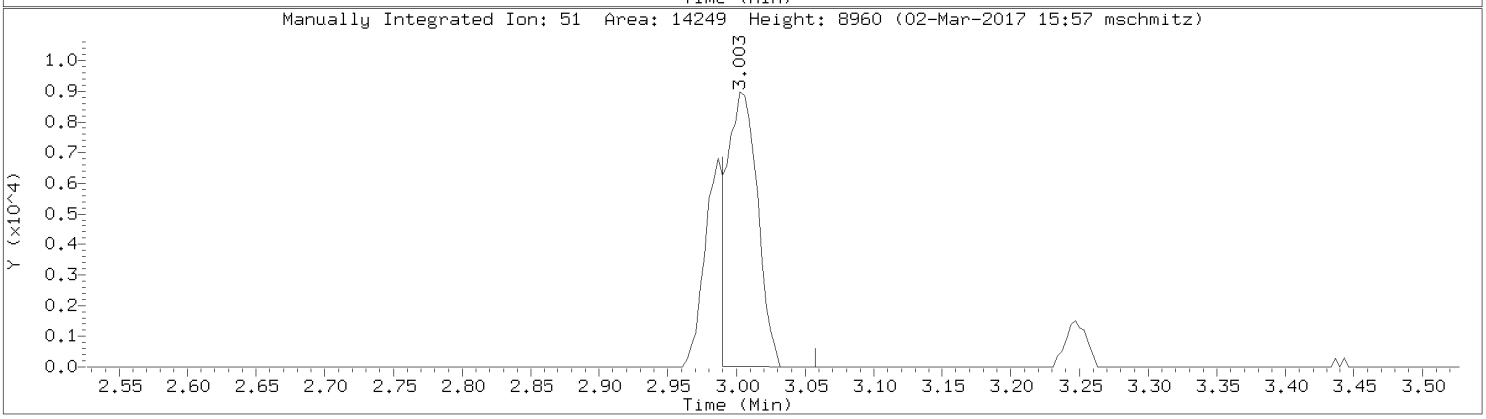
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

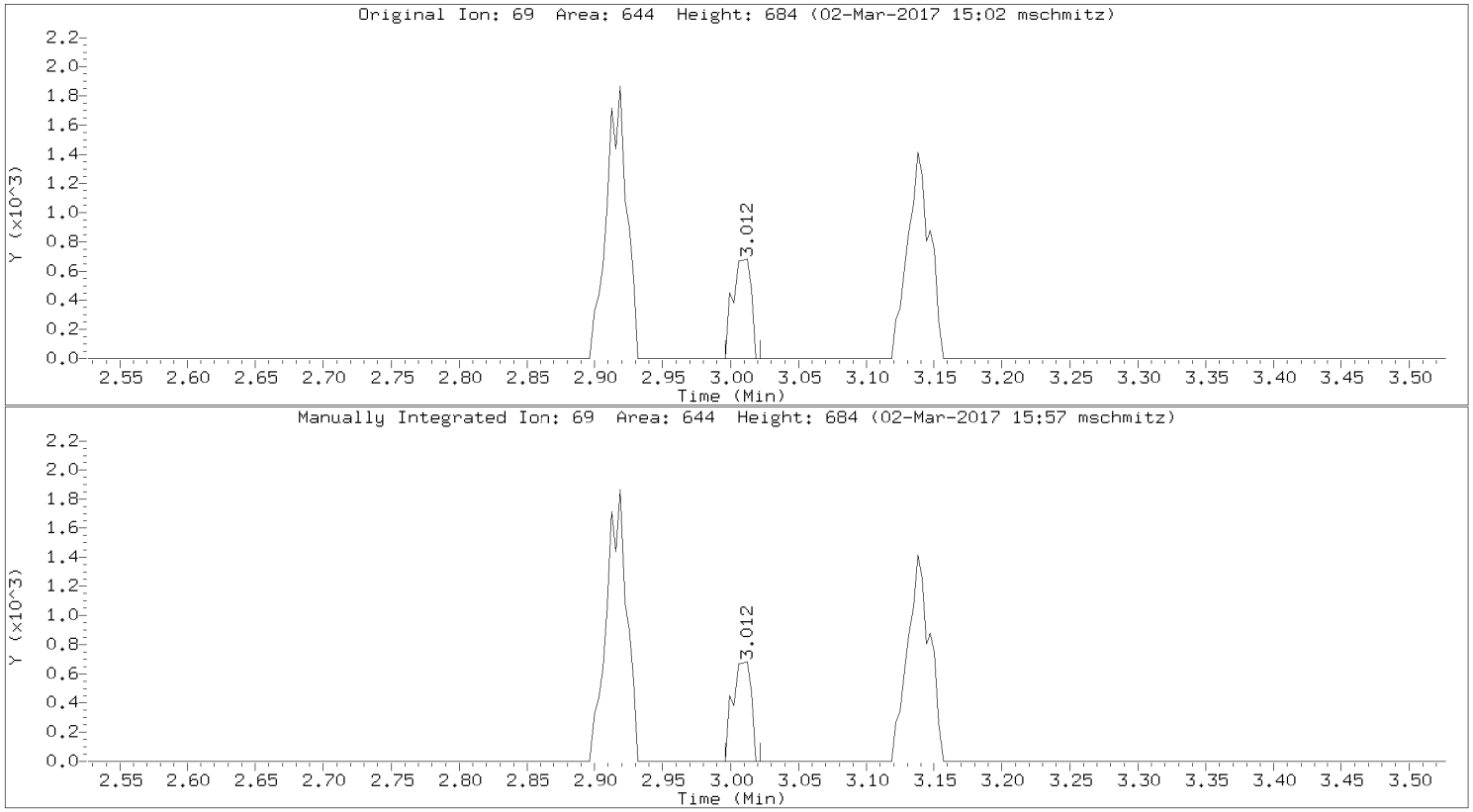






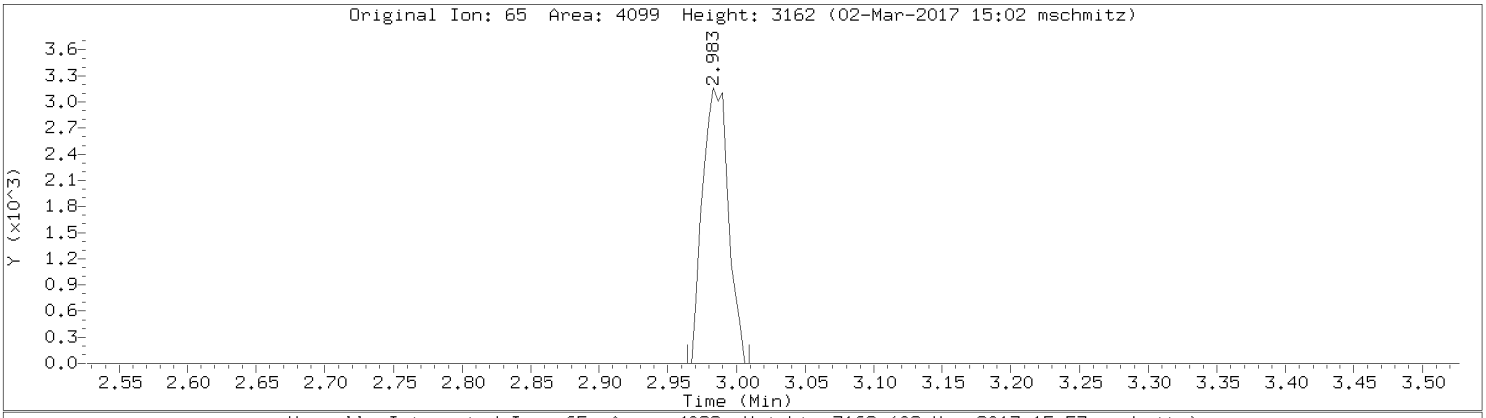


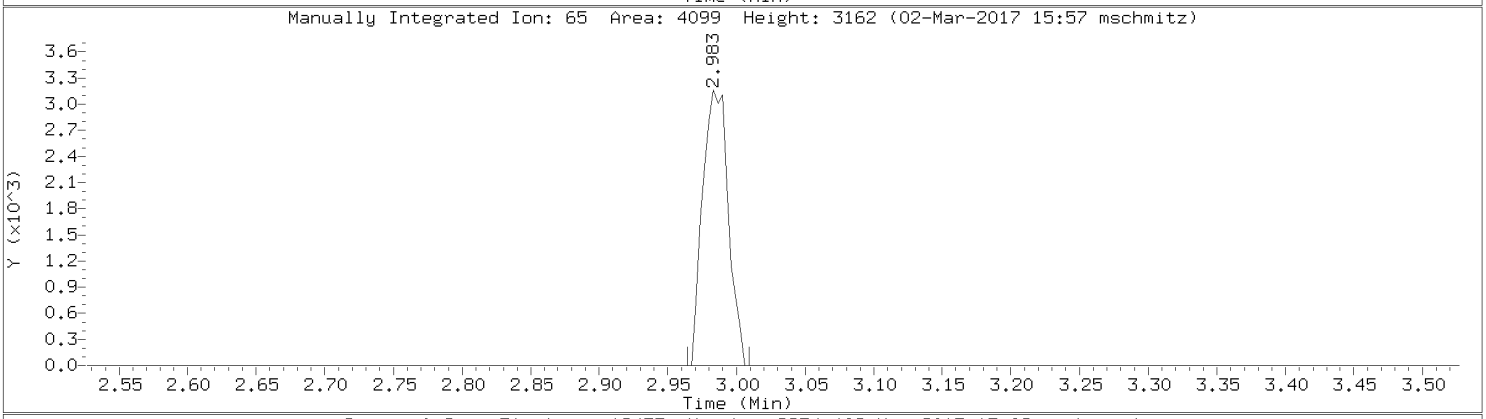
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

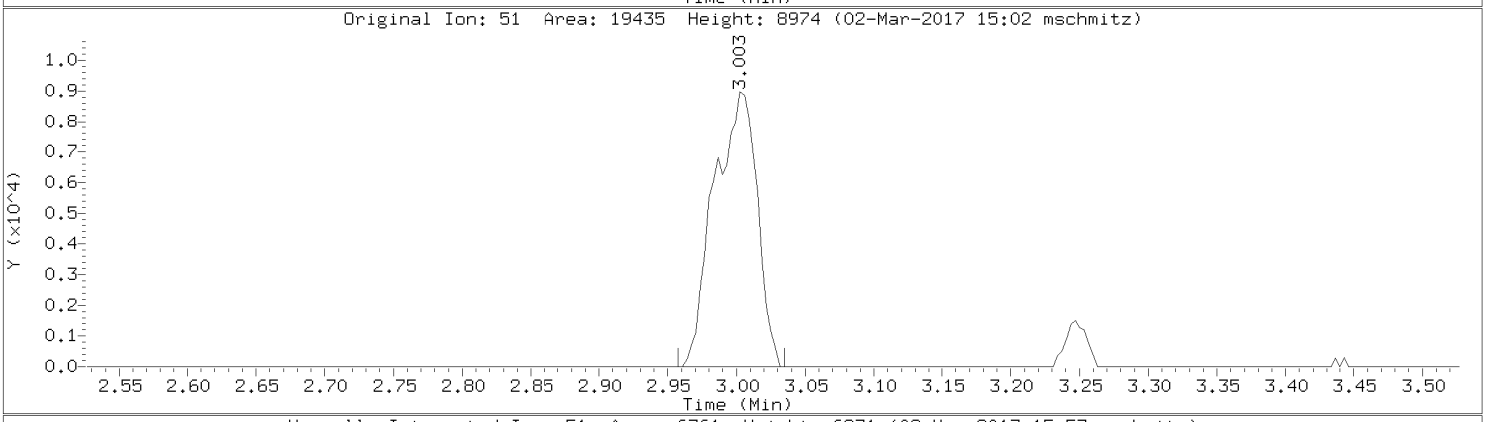


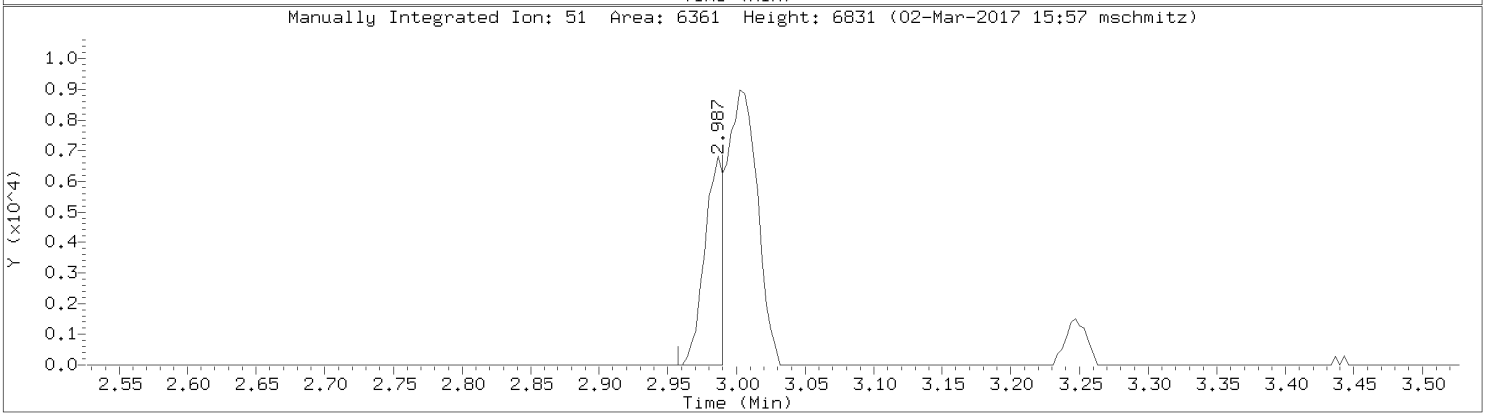
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

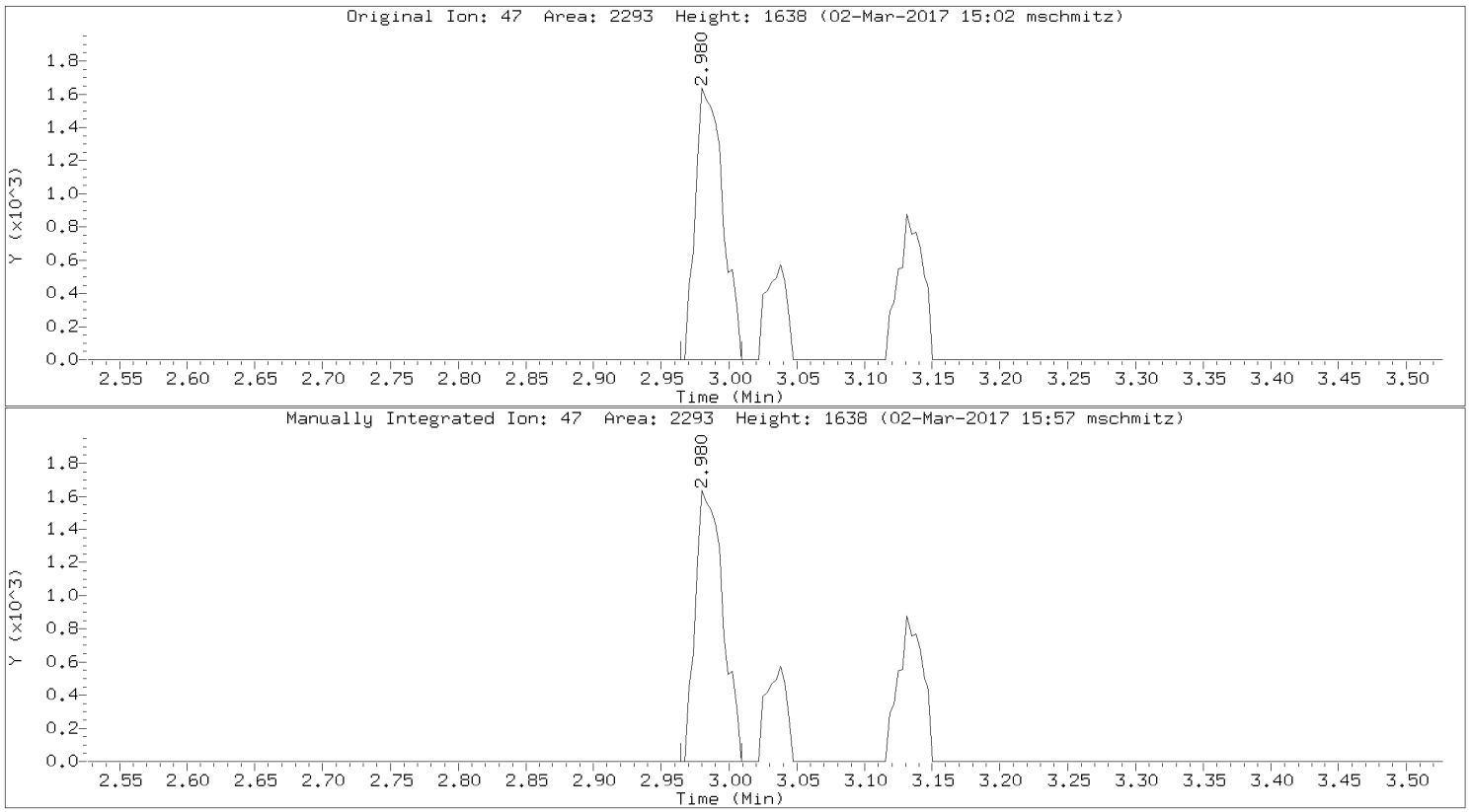








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Lab Smp Id: cal4
Inj Date : 02-MAR-2017 12:43
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:00 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 12:14 Cal File: 06111.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.909	2.909	(0.520)	5096	1.00000	0.599
2	1,1-Difluoroethane	65	2.970	2.970	(0.531)	7969	1.00000	0.952(M)
3	Chlorodifluoromethane	67	2.996	2.996	(0.535)	3964	1.00000	0.950(QM)
4	Propylene	41	2.996	2.996	(0.535)	24954	1.00000	1.84
5	Dichlorodifluoromethane	85	3.024	3.024	(0.540)	41132	1.00000	0.942
6	Chloromethane	50	3.114	3.114	(0.557)	15341	1.00000	0.935
7	Dichlorotetrafluoroethane	85	3.127	3.127	(0.559)	37987	1.00000	0.958
8	Vinyl chloride	62	3.198	3.198	(0.571)	13137	1.00000	0.927
9	1,3-Butadiene	54	3.233	3.233	(0.578)	10271	1.00000	0.995
10	Bromomethane	94	3.375	3.375	(0.603)	12990	1.00000	0.991
11	Chloroethane	64	3.426	3.426	(0.612)	6244	1.00000	0.958
12	Ethanol	45	3.536	3.536	(0.632)	24172	5.00000	4.61
13	Vinyl Bromide	106	3.542	3.542	(0.633)	12928	1.00000	0.952
14	Isopentane	43	3.561	3.561	(0.636)	19900	1.00000	1.26
15	Freon 123	83	3.581	3.581	(0.640)	16103	1.00000	0.994(QM)
16	Trichlorofluoromethane	101	3.635	3.635	(0.650)	37831	1.00000	0.966
17	Acrolein	56	3.661	3.661	(0.654)	9510	2.50000	2.00
18	Acetone	43	3.703	3.703	(0.662)	109193	5.00000	4.82
19	Isopropyl Alcohol	45	3.754	3.754	(0.671)	111997	5.00000	4.85
20	1,1-Dichloroethene	61	3.877	3.877	(0.693)	22216	1.00000	0.976
21	Acrylonitrile	53	3.902	3.902	(0.697)	24858	2.50000	2.37
22	Freon 113	101	3.922	3.922	(0.701)	30017	1.00000	1.02
23	Methyl Acetate	43	3.941	3.941	(0.704)	33807	1.00000	0.980

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.947	3.947	(0.705)	74711	2.50000	2.52(Q)
	25 Methylene chloride	49	3.973	3.973	(0.710)	78356	5.00000	4.90
	26 Allyl Chloride	76	3.992	3.992	(0.713)	11220	2.50000	2.16(Q)
	27 Carbon Disulfide	76	4.089	4.089	(0.731)	29419	1.00000	0.977
	28 trans-1,2-dichloroethene	96	4.246	4.246	(0.759)	12940	1.00000	1.01
	29 Methyl Tert Butyl Ether	73	4.298	4.298	(0.768)	91617	2.50000	2.52
	30 Vinyl Acetate	43	4.368	4.368	(0.781)	24341	1.00000	0.812
	31 1,1-Dichloroethane	63	4.385	4.385	(0.783)	24116	1.00000	0.969
$	32 Hexane-d14(S)	66	4.475	4.475	(0.799)	448062	10.0000	9.86
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.813)	6401	1.00000	1.01(Q)
	34 n-Hexane	57	4.571	4.571	(0.817)	22576	1.00000	0.991(QM)
	35 Di-isopropyl Ether	45	4.594	4.594	(0.821)	44999	1.00000	1.02
	36 Ethyl Acetate	43	4.712	4.712	(0.842)	28768	1.00000	0.982
	37 cis-1,2-Dichloroethene	96	4.700	4.700	(0.840)	14577	1.00000	1.02
	38 Ethyl Tert-Butyl Ether	59	4.822	4.822	(0.862)	126696	2.50000	2.74
	39 Chloroform	83	4.815	4.815	(0.860)	31780	1.00000	1.07
	40 Tetrahydrofuran	42	4.999	4.999	(0.893)	15752	1.00000	0.996
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	34753	1.00000	0.998
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	25561	1.00000	0.968
	43 Benzene	78	5.452	5.452	(0.974)	44654	1.00000	0.970
	44 Carbon tetrachloride	117	5.468	5.468	(0.977)	33323	1.00000	0.958
	45 Cyclohexane	56	5.478	5.478	(0.979)	23074	1.00000	1.00
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(1.001)	56548	1.00000	0.984
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1428064	10.0000	
	48 2,2,4-Trimethylpentane	57	5.757	5.757	(1.029)	182858	2.50000	2.56
	49 Heptane	43	5.876	5.876	(1.050)	25546	1.00000	0.993
	50 1,2-Dichloropropane	63	5.957	5.957	(1.064)	16664	1.00000	0.999
	51 Trichloroethene	130	5.973	5.973	(1.067)	24010	1.00000	1.00
	52 Methyl methacrylate	69	6.044	6.044	(1.080)	14752	1.00000	0.945
	53 1,4-Dioxane	88	6.079	6.079	(1.086)	9882	1.00000	0.918
	54 Bromodichloromethane	83	6.076	6.076	(1.086)	32727	1.00000	0.963
	55 Methylcyclohexane	98	6.420	6.420	(1.147)	12229	1.00000	0.962
	56 Methyl Isobutyl Ketone	43	6.532	6.532	(1.167)	87436	2.50000	2.49
	57 cis-1,3-Dichloropropene	75	6.577	6.577	(1.175)	23875	1.00000	0.920
	58 trans-1,3-Dichloropropene	75	6.976	6.976	(1.246)	20281	1.00000	0.865
$	59 Toluene-d8 (S)	98	7.069	7.069	(1.263)	1242398	10.0000	9.72
	60 1,1,2-Trichloroethane	97	7.134	7.134	(1.275)	18202	1.00000	0.950
	61 Toluene	91	7.146	7.146	(1.277)	56798	1.00000	0.985
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.854)	73136	2.50000	2.46
	63 n-Octane	43	7.577	7.577	(0.877)	33052	1.00000	1.03
	64 Dibromochloromethane	129	7.674	7.674	(0.888)	31027	1.00000	0.877
	65 1,2-Dibromoethane	107	7.902	7.902	(0.915)	30387	1.00000	1.00
	66 Tetrachloroethene	166	7.982	7.982	(0.924)	32617	1.00000	0.998
*	67 Chlorobenzene - d5	117	8.638	8.638	(1.000)	941467	10.0000	
	68 Chlorobenzene	112	8.683	8.683	(1.005)	45167	1.00000	0.967
	69 Ethyl Benzene	91	8.931	8.931	(1.034)	71332	1.00000	1.03
	70 m&p-Xylene	91	9.076	9.076	(1.051)	110623	2.00000	2.04
	71 n-Nonane	43	9.465	9.465	(1.096)	30417	1.00000	1.09
	72 Bromoform	173	9.478	9.478	(1.097)	23365	1.00000	0.782
	73 Styrene	104	9.500	9.500	(1.100)	41273	1.00000	0.936
	74 o-Xylene	91	9.574	9.574	(1.108)	56685	1.00000	1.03
	75 1,1,2,2-Tetrachloroethane	83	9.825	9.825	(1.137)	29718	1.00000	0.975
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	75799	1.00000	0.969
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	77311	1.00000	0.897

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.908	10.908	(1.263)	69266	1.00000	0.924
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.273)	61066	1.00000	0.937
80	n-Decane	57	11.375	11.375	(2.032)	27313	1.00000	0.968
81	Tert-Butyl Benzene	119	11.494	11.494	(1.331)	64150	1.00000	1.03
82	1,2,4-Trimethylbenzene	105	11.506	11.506	(1.332)	58777	1.00000	1.05
83	1,3-Dichlorobenzene	146	11.789	11.789	(1.365)	35362	1.00000	0.881
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	82203	1.00000	1.05
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.850	(1.372)	501607	10.0000	9.67
86	Benzyl Chloride	91	11.860	11.860	(1.373)	22499	1.00000	0.809
87	1,4-Dichlorobenzene	146	11.886	11.886	(1.376)	36268	1.00000	0.990
88	p-Isopropyltoluene	119	11.982	11.982	(1.387)	67948	1.00000	0.905
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	56080	1.00000	1.02
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	32463	1.00000	0.900
91	N-Butylbenzene	91	12.458	12.458	(1.442)	47311	1.00000	0.803
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	7071	1.00000	0.658
93	1,2,4-Trichlorobenzene	180	14.040	14.040	(1.625)	7389	1.00000	0.843
94	Naphthalene	128	14.175	14.175	(1.641)	19022	1.00000	0.824
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	17650	1.00000	1.08

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06112.D
Lab Smp Id: cal4
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

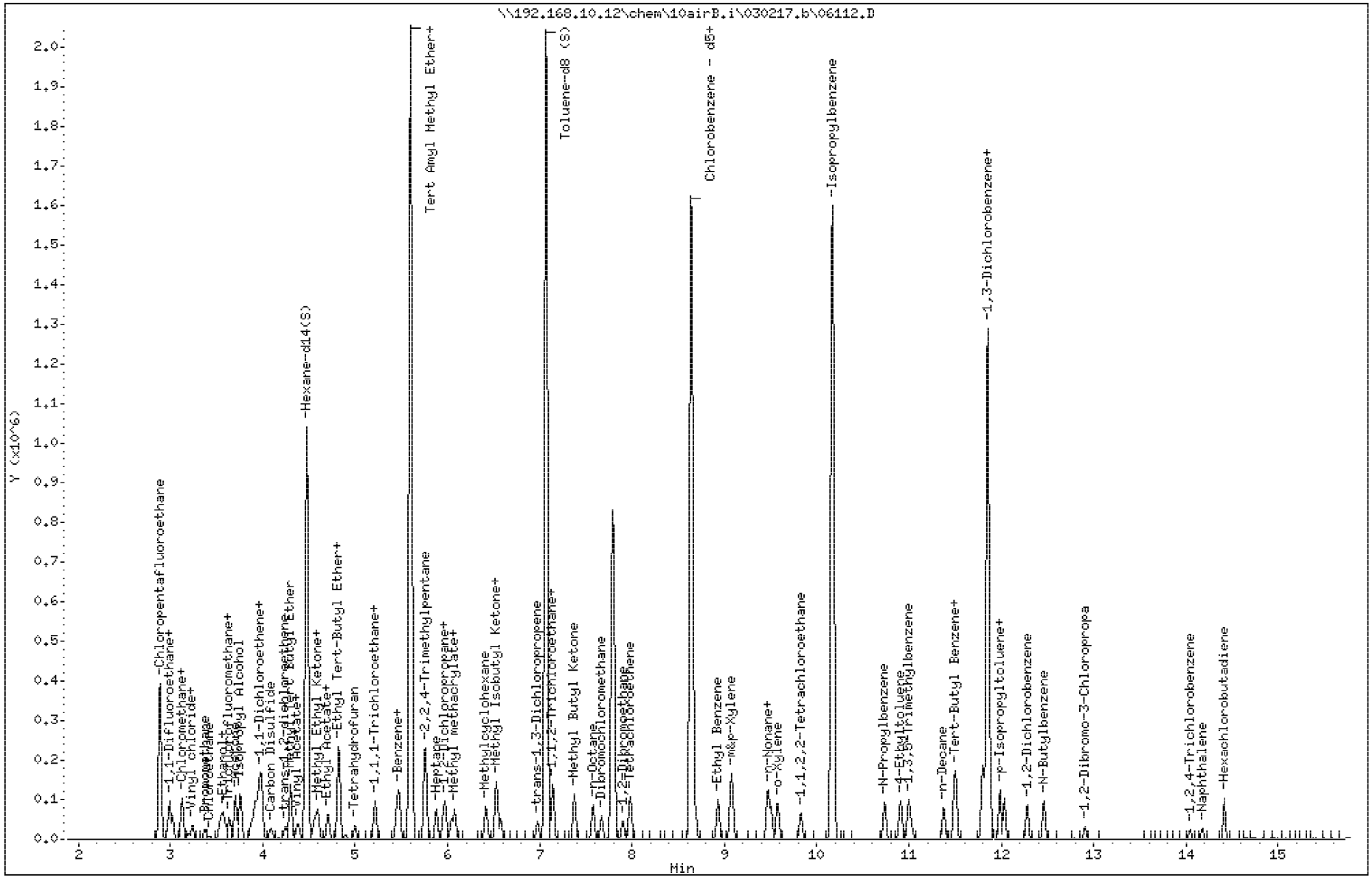
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1428064	0.99
67 Chlorobenzene - d	951026	570616	1331436	941467	-1.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

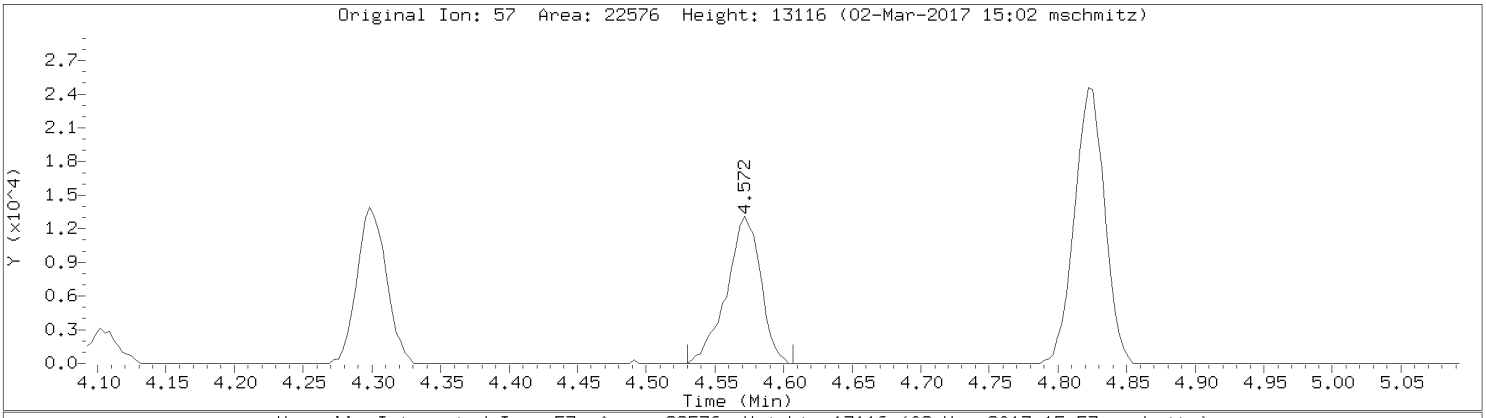
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Date : 02-MAR-2017 12:43
Client ID:
Sample Info:

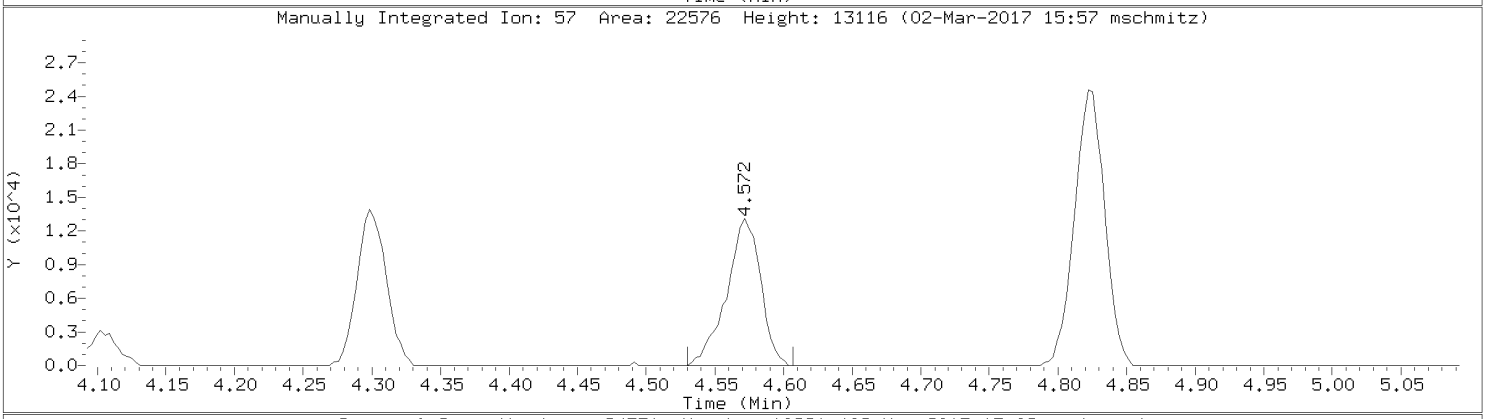
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

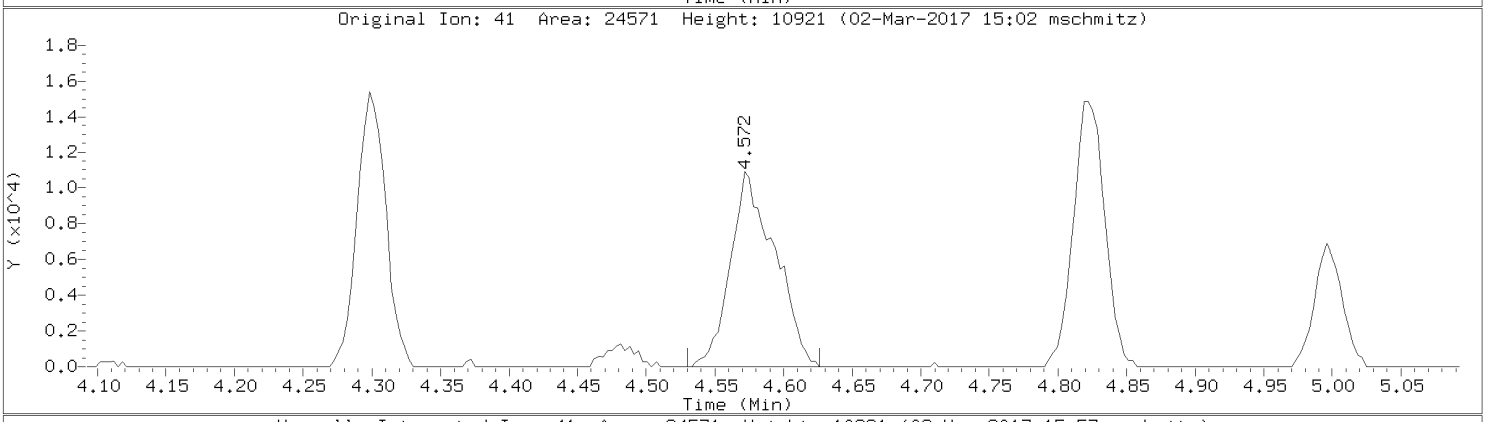


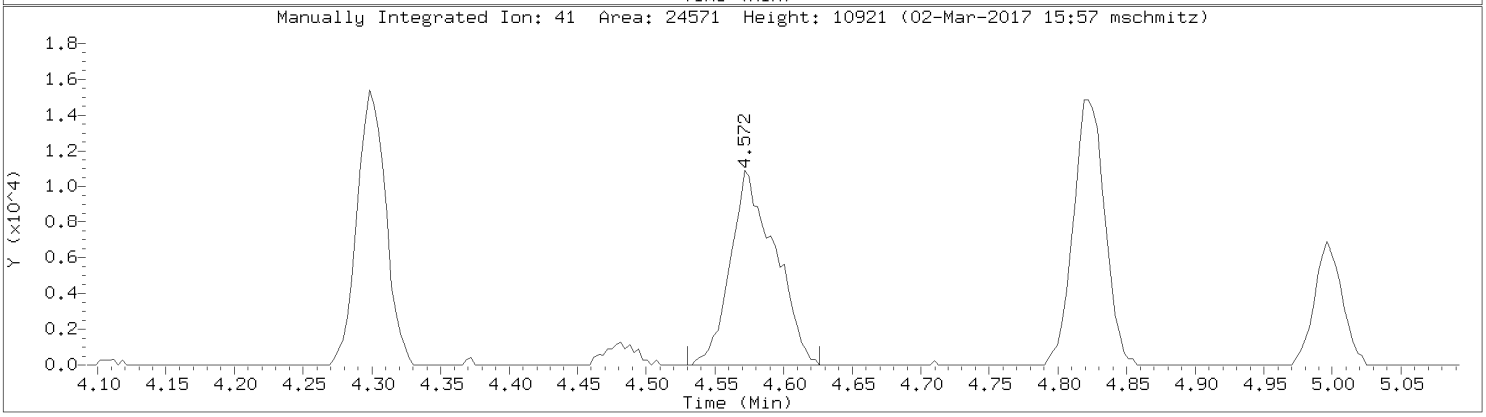
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: n-Hexane
CAS Number: 110-54-3

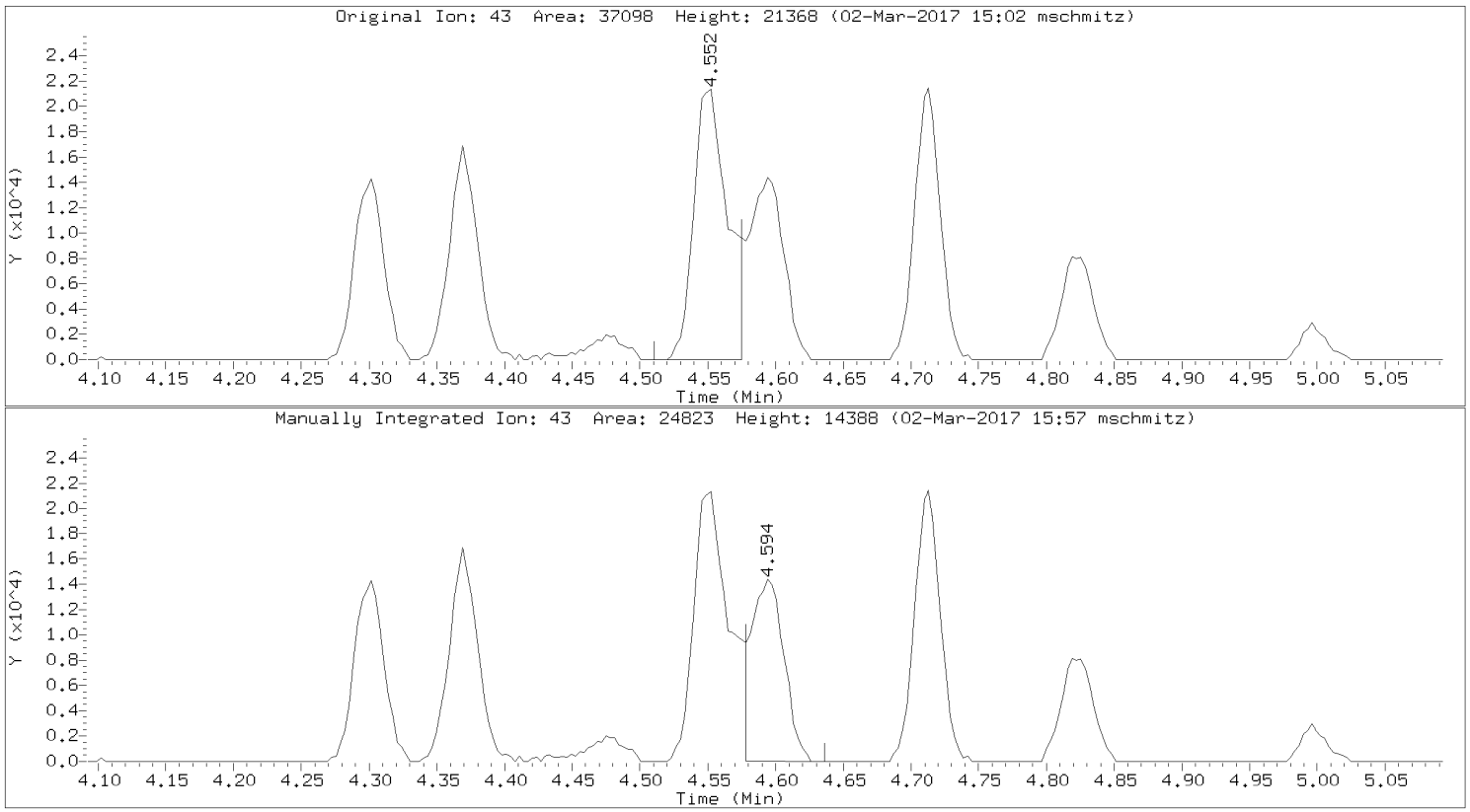






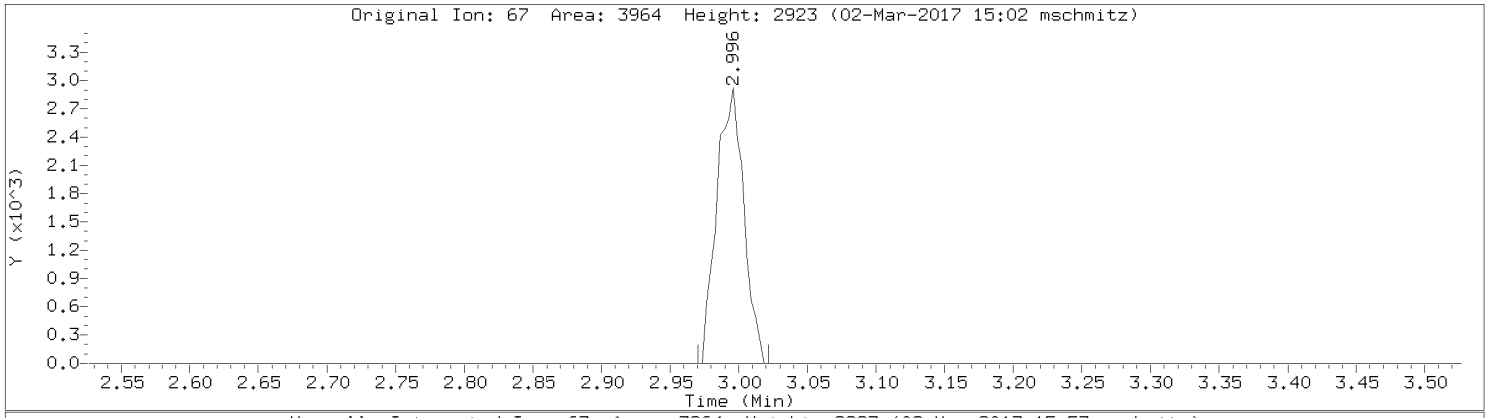


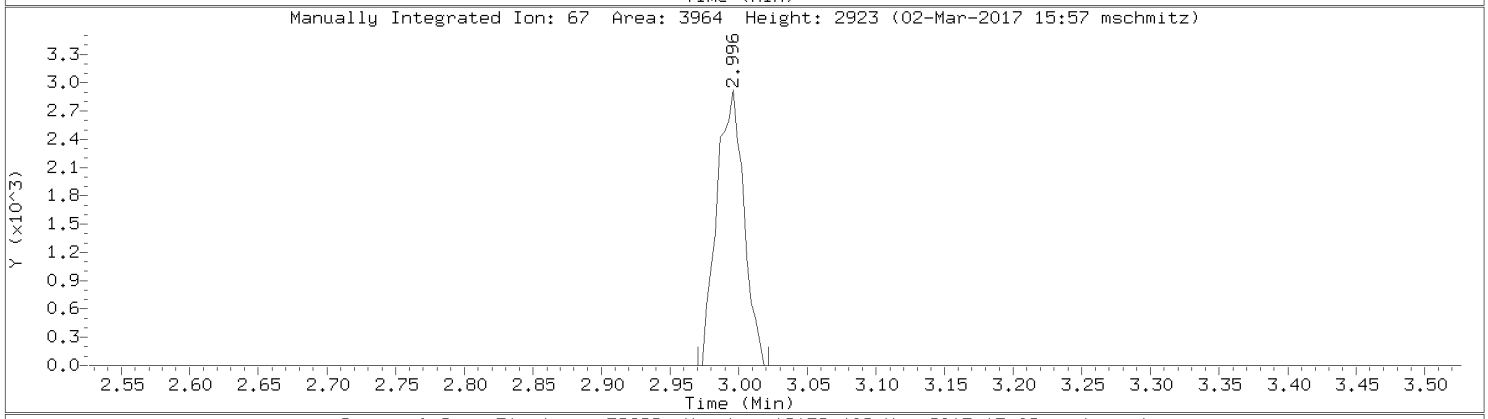
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

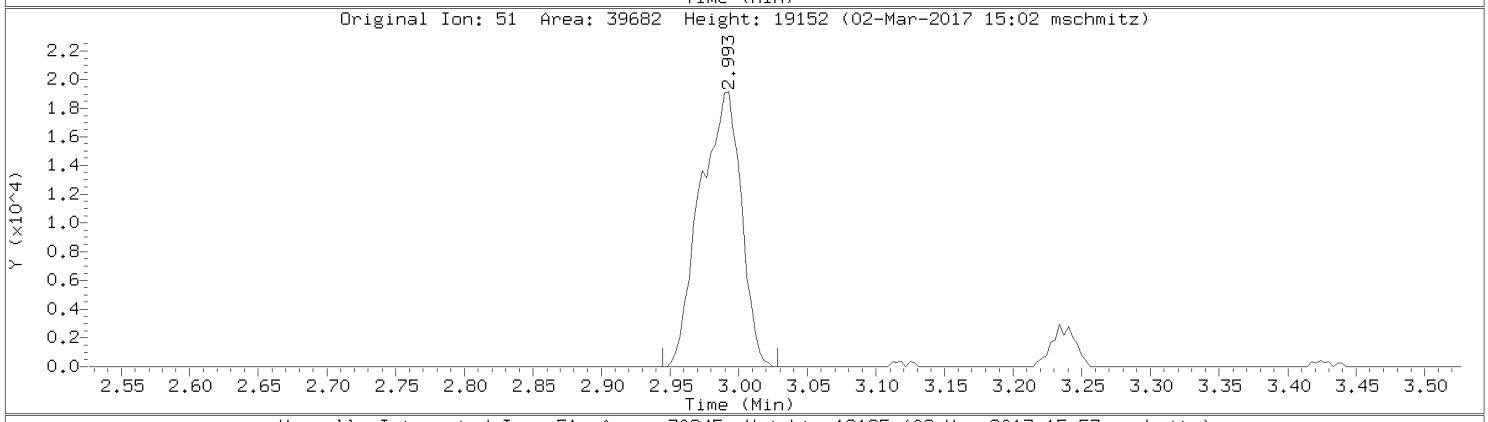


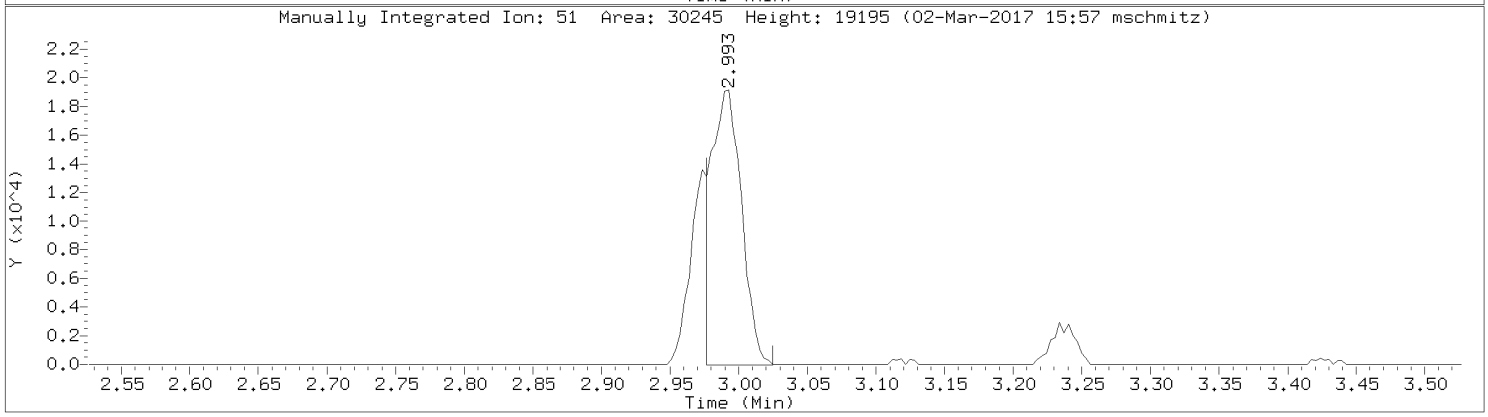
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

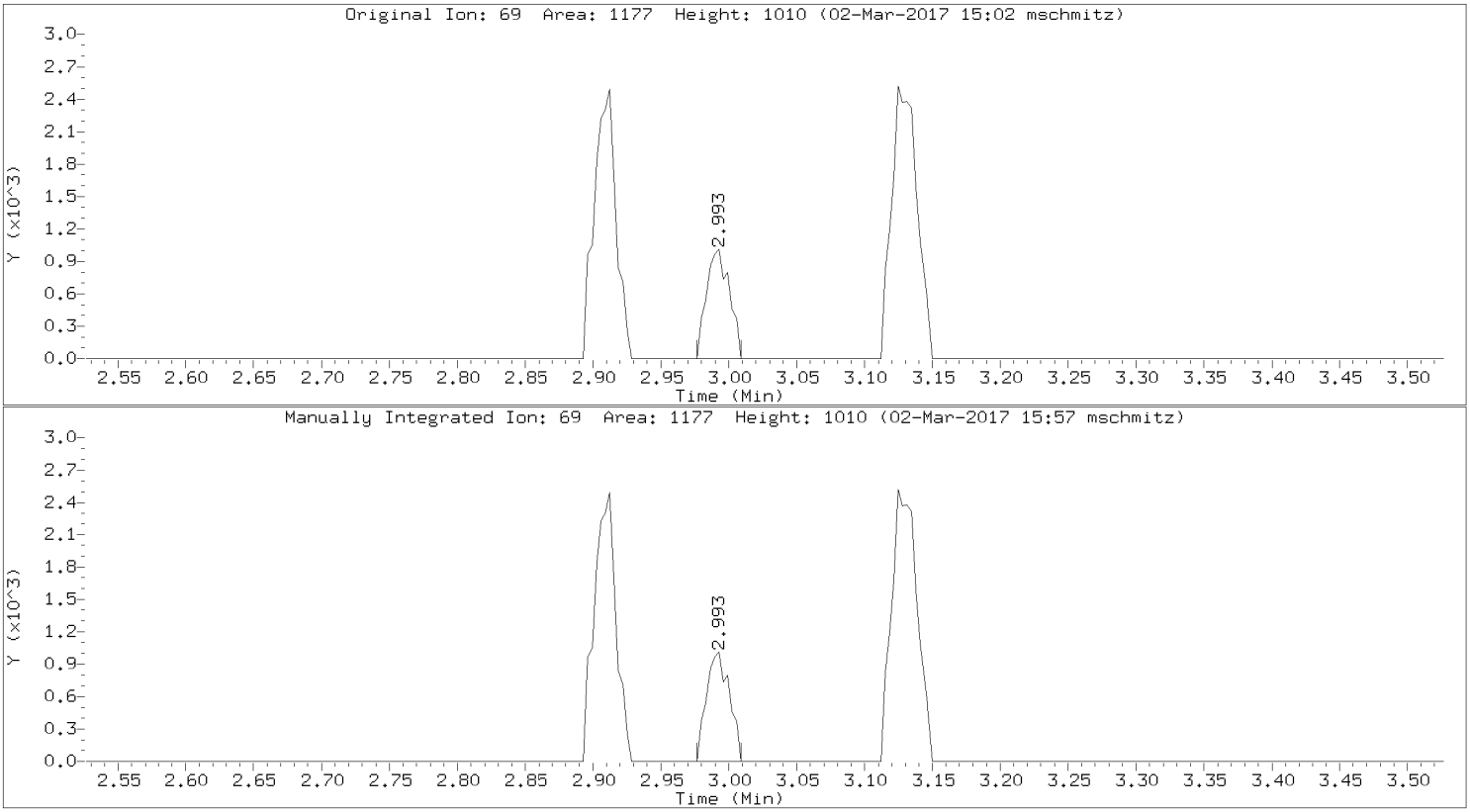






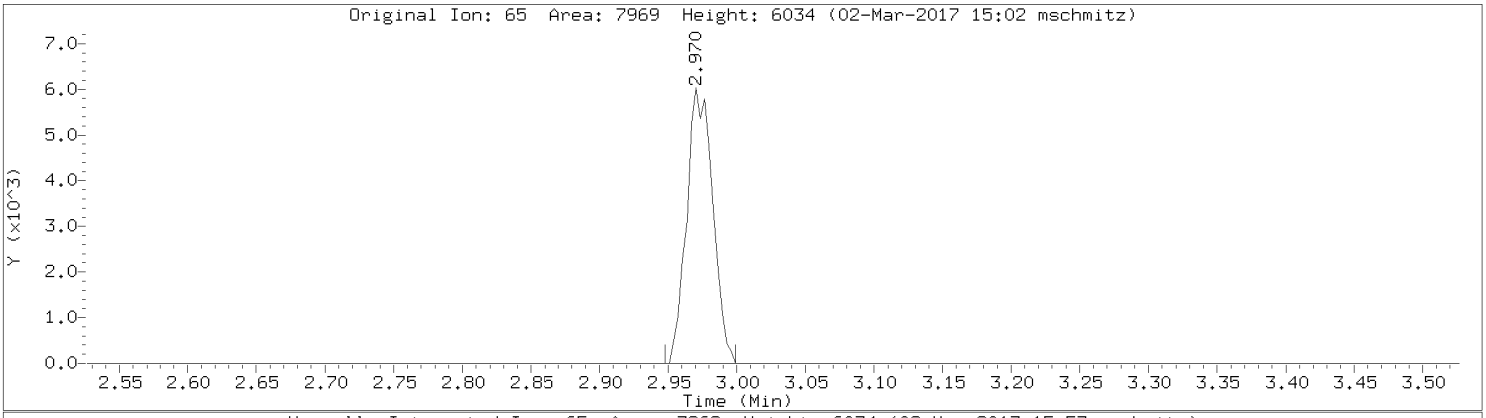


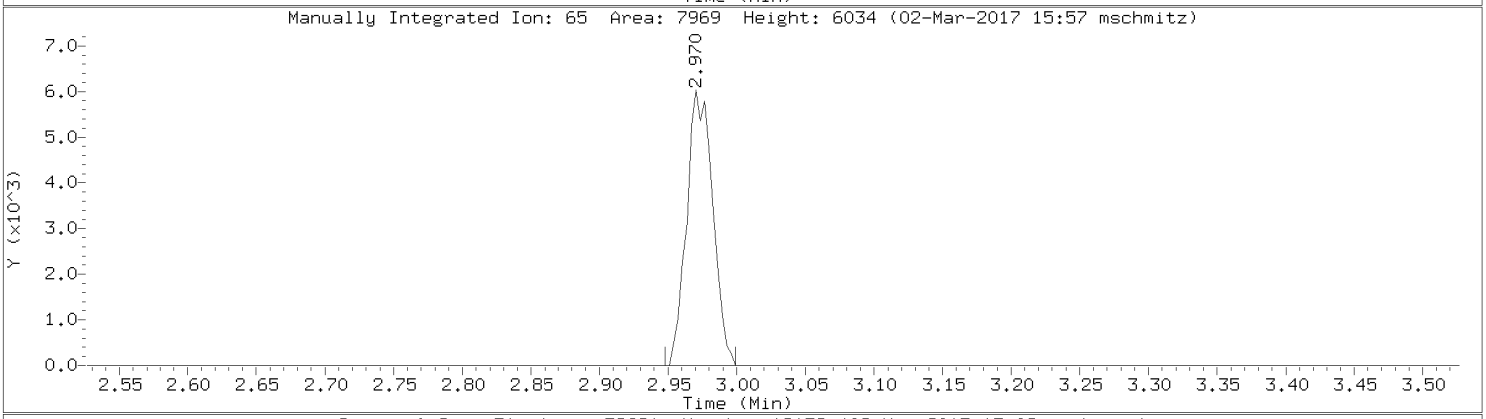
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

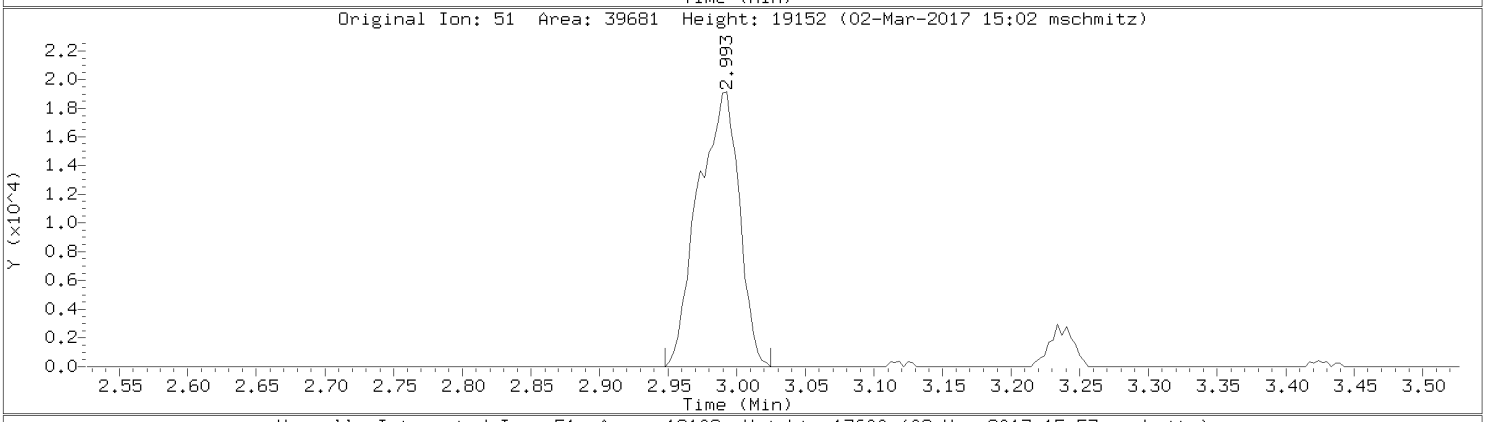


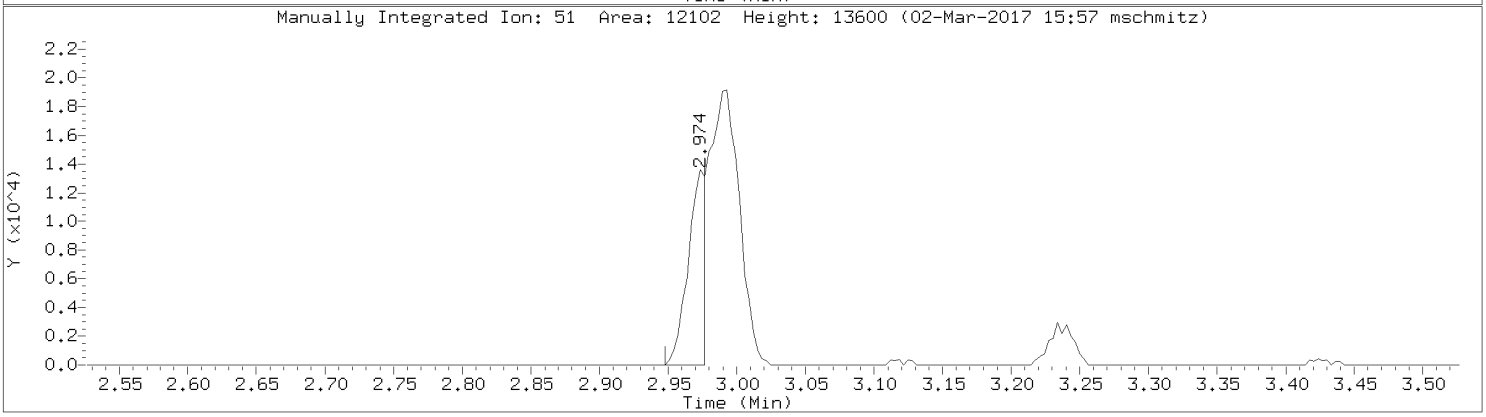
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

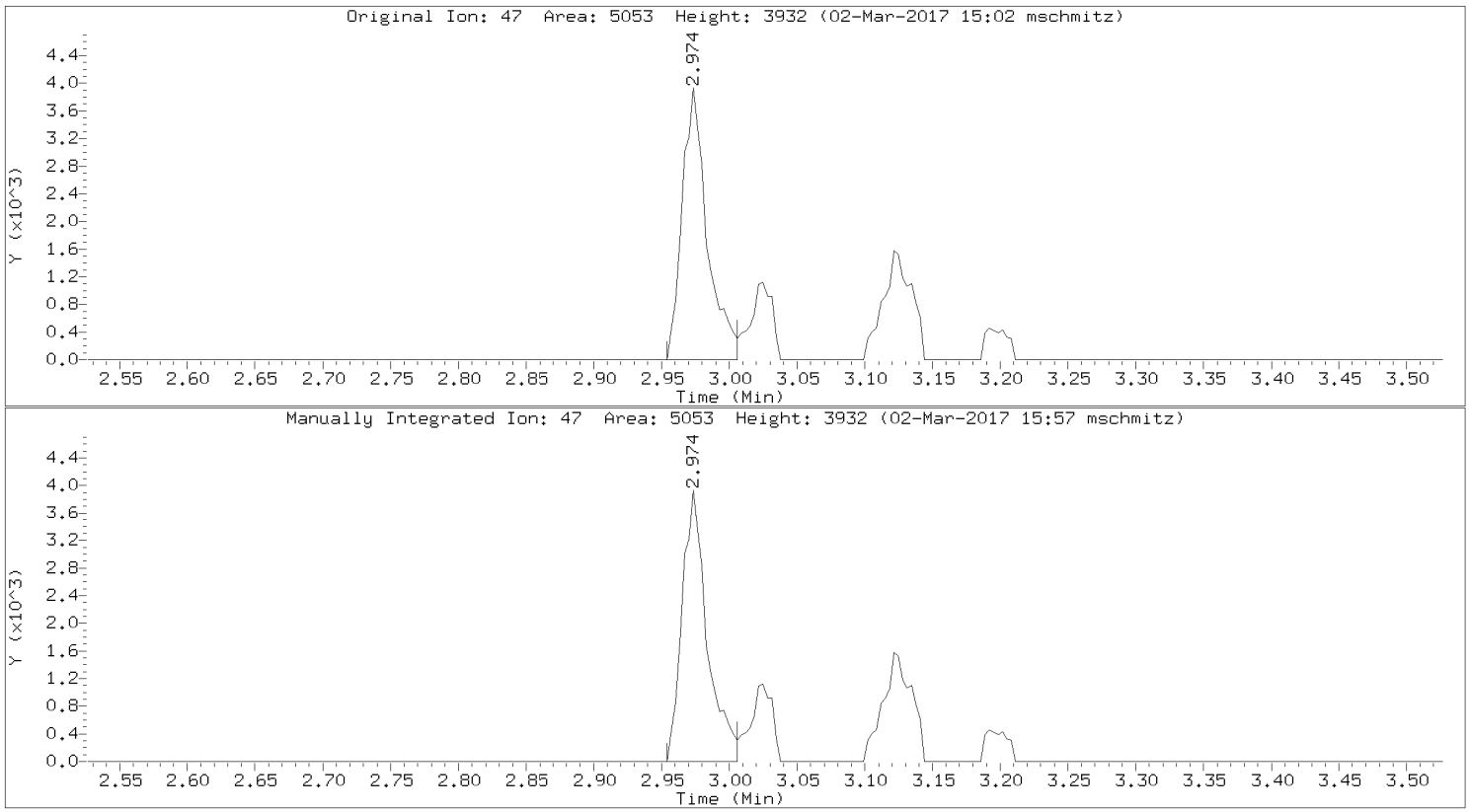






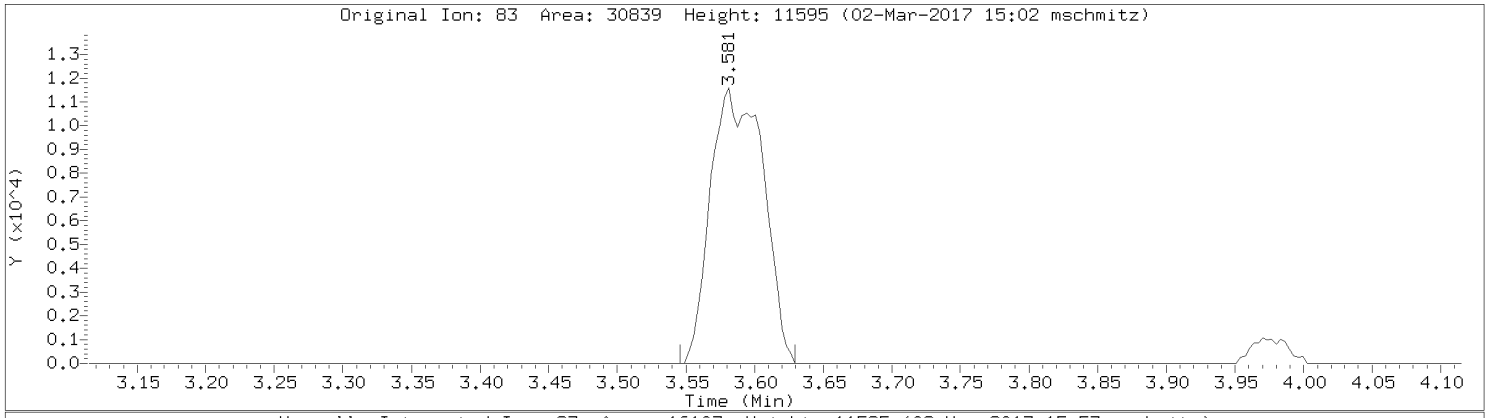


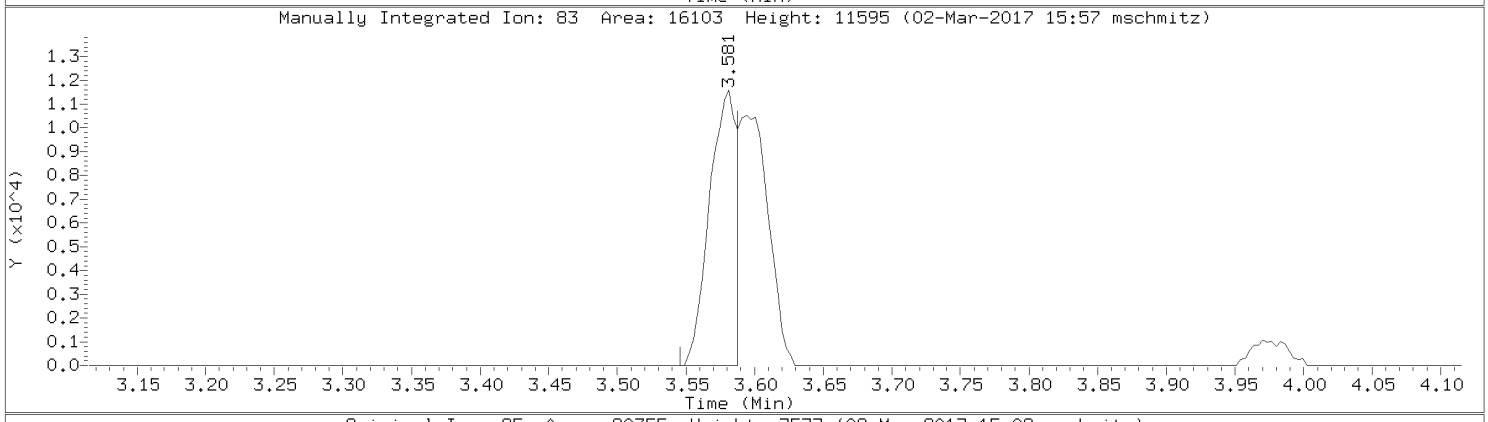
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

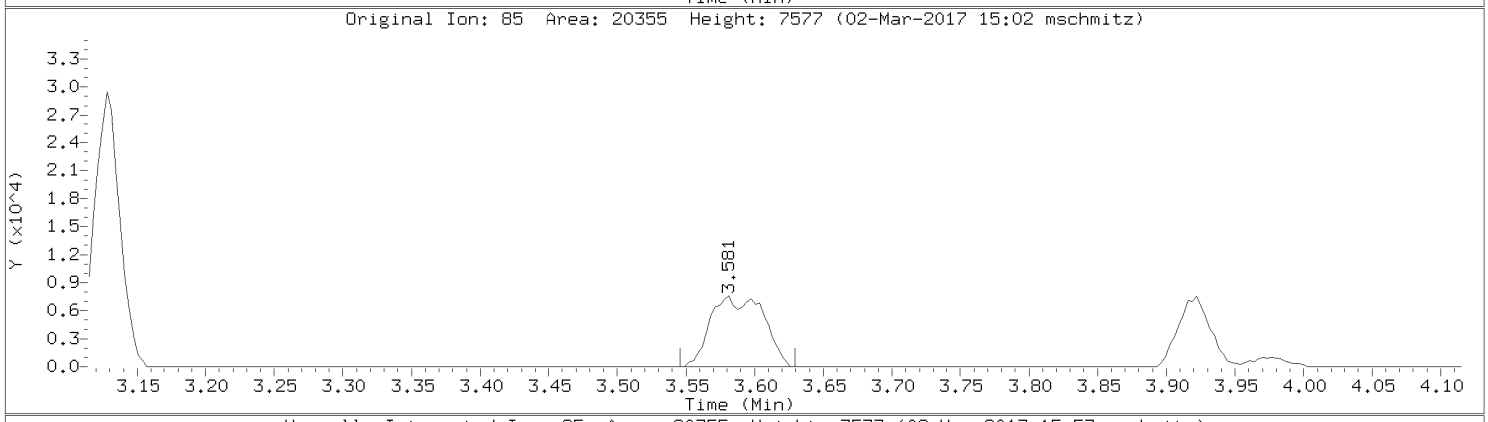


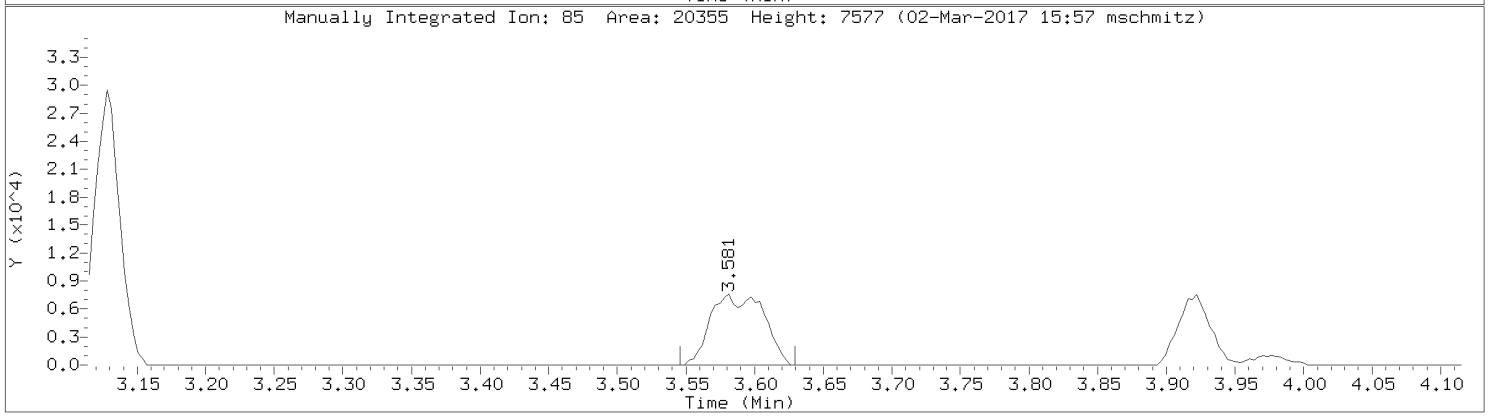
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Freon 123
CAS Number: 306-83-2

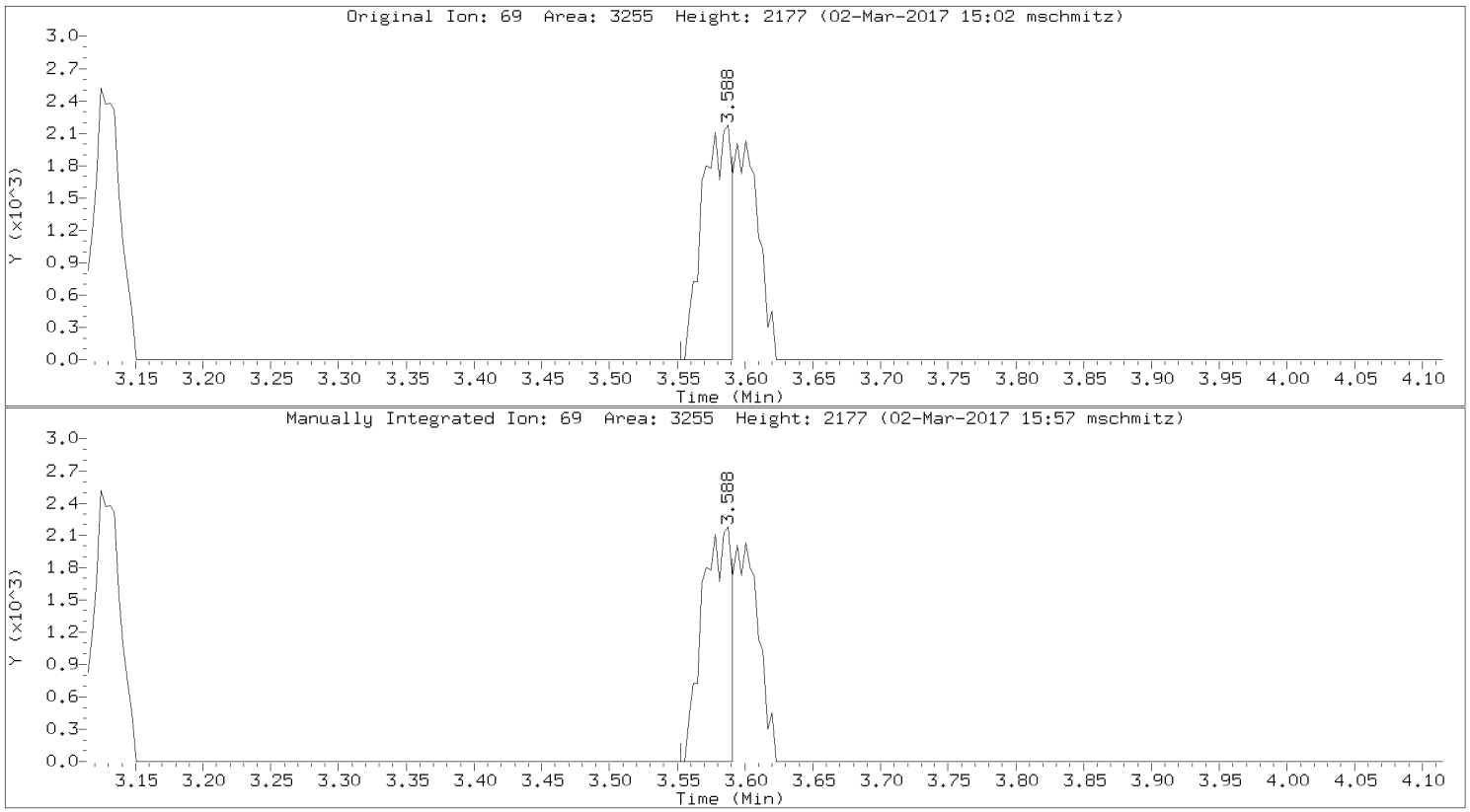








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Lab Smp Id: cal5
Inj Date : 02-MAR-2017 13:10
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:00 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 12:43 Cal File: 06112.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.948	2.948	(0.525)	104607	10.0000	10.0
2	1,1-Difluoroethane	65	3.018	3.018	(0.538)	85570	10.0000	10.3(Q)
3	Chlorodifluoromethane	67	3.025	3.025	(0.539)	41204	10.0000	10.4(Q)
4	Propylene	41	3.031	3.031	(0.540)	98681	10.0000	9.40
5	Dichlorodifluoromethane	85	3.063	3.063	(0.546)	413909	10.0000	10.3(H)
6	Chloromethane	50	3.160	3.160	(0.563)	162140	10.0000	9.98
7	Dichlorotetrafluoroethane	85	3.166	3.166	(0.564)	382615	10.0000	9.75
8	Vinyl chloride	62	3.234	3.234	(0.576)	144116	10.0000	10.3(H)
9	1,3-Butadiene	54	3.275	3.275	(0.584)	109011	10.0000	10.7
10	Bromomethane	94	3.411	3.411	(0.608)	131635	10.0000	10.1
11	Chloroethane	64	3.465	3.465	(0.617)	64288	10.0000	9.96
12	Ethanol	45	3.546	3.546	(0.632)	260378	50.0000	50.1
13	Vinyl Bromide	106	3.584	3.584	(0.639)	137400	10.0000	10.2
14	Isopentane	43	3.600	3.600	(0.641)	145015	10.0000	10.2
15	Freon 123	83	3.603	3.603	(0.642)	129273	10.0000	8.64(Q)
16	Trichlorofluoromethane	101	3.674	3.674	(0.655)	377905	10.0000	9.75(H)
17	Acrolein	56	3.684	3.684	(0.656)	138213	25.0000	26.2
18	Acetone	43	3.719	3.719	(0.663)	1048097	50.0000	46.7
19	Isopropyl Alcohol	45	3.767	3.767	(0.671)	1176801	50.0000	51.4
20	1,1-Dichloroethene	61	3.909	3.909	(0.696)	228240	10.0000	10.1
21	Acrylonitrile	53	3.928	3.928	(0.700)	281021	25.0000	27.1
22	Freon 113	101	3.947	3.947	(0.703)	290510	10.0000	9.92
23	Methyl Acetate	43	3.957	3.957	(0.705)	346874	10.0000	10.2

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.704)	747480	25.0000	25.4
	25 Methylene chloride	49	4.005	4.005	(0.714)	771232	50.0000	48.7(H)
	26 Allyl Chloride	76	4.021	4.021	(0.716)	140726	25.0000	25.5(Q)
	27 Carbon Disulfide	76	4.124	4.124	(0.735)	331437	10.0000	11.1
	28 trans-1,2-dichloroethene	96	4.279	4.279	(0.762)	137571	10.0000	10.9
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	908222	25.0000	25.2
	30 Vinyl Acetate	43	4.388	4.388	(0.782)	385061	10.0000	10.2
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	254235	10.0000	10.3
$	32 Hexane-d14(S)	66	4.488	4.488	(0.800)	441027	10.0000	9.80
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	65846	10.0000	9.85(Q)
	34 n-Hexane	57	4.584	4.584	(0.817)	232988	10.0000	10.3(Q)
	35 Di-isopropyl Ether	45	4.603	4.603	(0.820)	442149	10.0000	10.1
	36 Ethyl Acetate	43	4.716	4.716	(0.840)	320011	10.0000	11.0
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.841)	160633	10.0000	11.4
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	1228924	25.0000	26.8
	39 Chloroform	83	4.841	4.841	(0.863)	319627	10.0000	10.9
	40 Tetrahydrofuran	42	4.992	4.992	(0.889)	160630	10.0000	10.3
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	362586	10.0000	10.5
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	268379	10.0000	10.3
	43 Benzene	78	5.465	5.465	(0.974)	478819	10.0000	10.5
	44 Carbon tetrachloride	117	5.488	5.488	(0.978)	385538	10.0000	11.2
	45 Cyclohexane	56	5.488	5.488	(0.978)	237050	10.0000	10.4
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	445708	10.0000	10.0
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1414114	10.0000	
	48 2,2,4-Trimethylpentane	57	5.771	5.771	(1.028)	1831044	25.0000	25.9
	49 Heptane	43	5.890	5.890	(1.049)	264868	10.0000	10.4
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	170677	10.0000	10.3
	51 Trichloroethene	130	5.986	5.986	(1.066)	242650	10.0000	10.2
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	165273	10.0000	10.7
	53 1,4-Dioxane	88	6.063	6.063	(1.080)	111424	10.0000	10.5
	54 Bromodichloromethane	83	6.086	6.086	(1.084)	364714	10.0000	10.8
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	132902	10.0000	10.3
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	938867	25.0000	27.0
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	285919	10.0000	10.1
	58 trans-1,3-Dichloropropene	75	6.983	6.983	(1.244)	268282	10.0000	10.3
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1247636	10.0000	9.86
	60 1,1,2-Trichloroethane	97	7.140	7.140	(1.272)	192251	10.0000	10.1
	61 Toluene	91	7.153	7.153	(1.274)	578322	10.0000	10.1
	62 Methyl Butyl Ketone	43	7.369	7.369	(0.852)	860819	25.0000	28.7
	63 n-Octane	43	7.581	7.581	(0.877)	361448	10.0000	11.1
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	385835	10.0000	10.3
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	332151	10.0000	10.8
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	332343	10.0000	10.1
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	951026	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	485132	10.0000	10.3
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	763091	10.0000	10.9
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1205274	20.0000	22.0
	71 n-Nonane	43	9.471	9.471	(1.096)	338293	10.0000	11.9
	72 Bromoform	173	9.478	9.478	(1.096)	367770	10.0000	10.2
	73 Styrene	104	9.507	9.507	(1.100)	465333	10.0000	10.0
	74 o-Xylene	91	9.581	9.581	(1.108)	605642	10.0000	10.8
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	349462	10.0000	11.4
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	821922	10.0000	10.4
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	929423	10.0000	10.4

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	815307	10.0000	10.0
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	689551	10.0000	10.3
80	n-Decane	57	11.381	11.381	(2.028)	350331	10.0000	9.70
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	712051	10.0000	11.3
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	653414	10.0000	11.6
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	423299	10.0000	10.5
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	935378	10.0000	11.8
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	580192	10.0000	11.1(M)
86	Benzyl Chloride	91	11.864	11.864	(1.372)	427013	10.0000	9.97
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	419240	10.0000	11.3
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	793111	10.0000	10.5
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	651233	10.0000	11.7
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.420)	395633	10.0000	10.1
91	N-Butylbenzene	91	12.462	12.462	(1.441)	612616	10.0000	10.6
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	154681	10.0000	10.2
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.624)	156379	10.0000	9.74
94	Naphthalene	128	14.169	14.169	(1.639)	369664	10.0000	9.64
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	183626	10.0000	11.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06113.D
Lab Smp Id: cal5
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

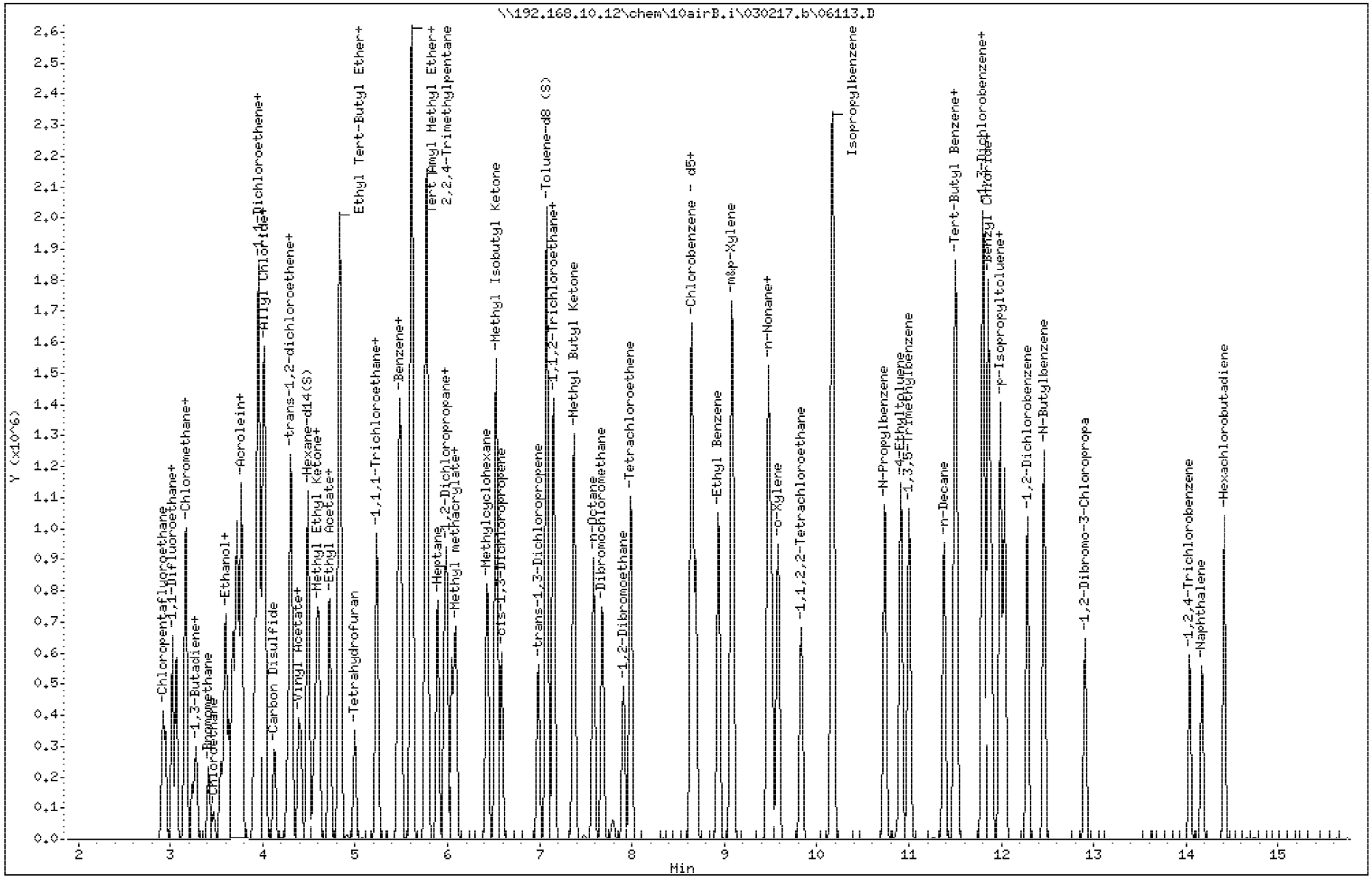
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1414114	0.00
67 Chlorobenzene - d	951026	570616	1331436	951026	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

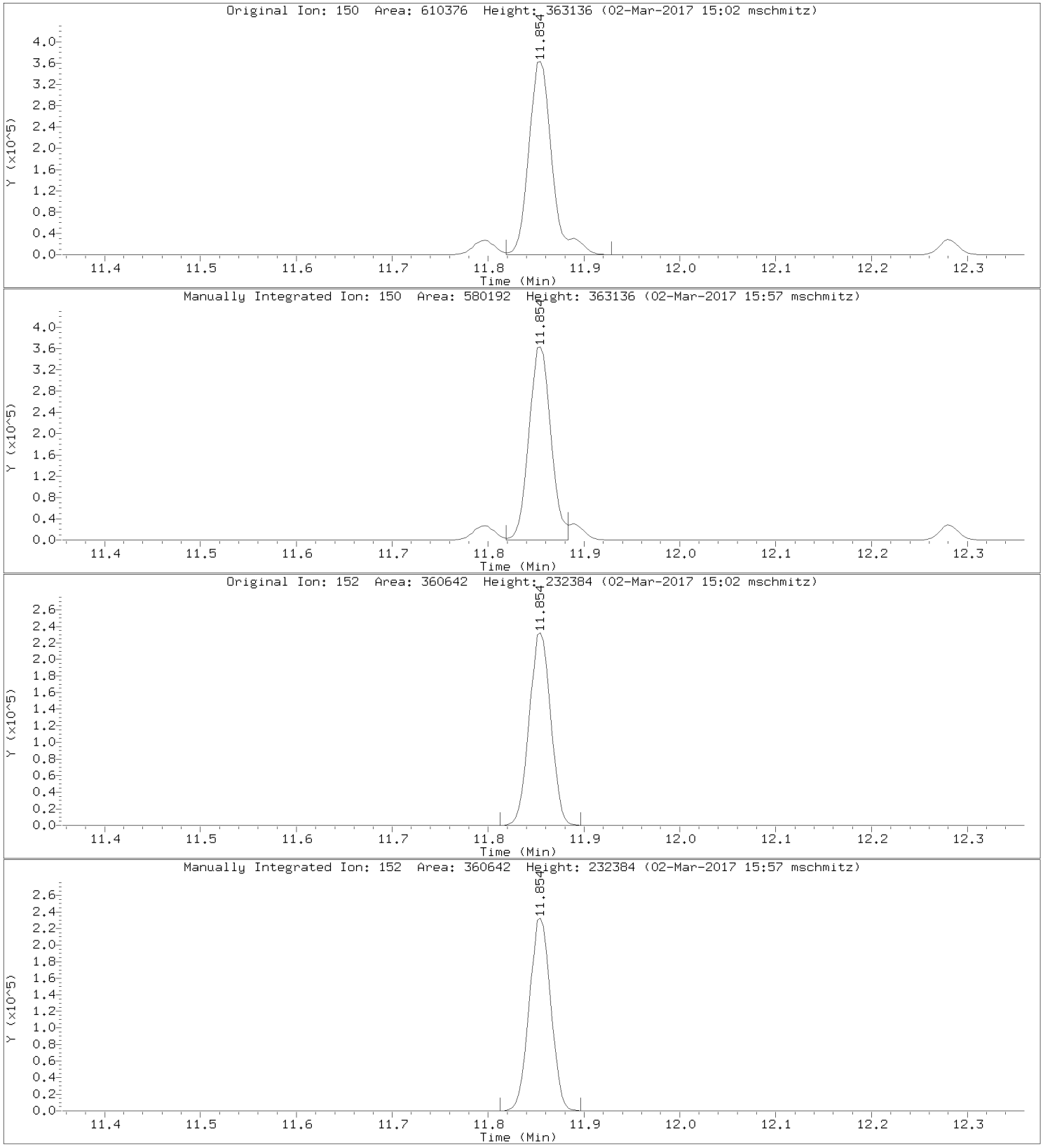
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Date : 02-MAR-2017 13:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030217.b/06113.D
Injection Date: 02-MAR-2017 13:10
Instrument: 10airB.i
Lab Sample ID: cal5

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Lab Smp Id: cal6
Inj Date : 02-MAR-2017 13:39
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:01 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 13:10 Cal File: 06113.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.938	2.938	(0.523)	140241	20.0000	13.1
2	1,1-Difluoroethane	65	3.021	3.021	(0.538)	168746	20.0000	19.9
3	Chlorodifluoromethane	67	3.021	3.021	(0.538)	80199	20.0000	19.8
4	Propylene	41	3.025	3.025	(0.538)	197124	20.0000	19.0
5	Dichlorodifluoromethane	85	3.060	3.060	(0.545)	810812	20.0000	19.9
6	Chloromethane	50	3.160	3.160	(0.562)	318845	20.0000	19.2
7	Dichlorotetrafluoroethane	85	3.169	3.169	(0.564)	761624	20.0000	19.0
8	Vinyl chloride	62	3.240	3.240	(0.577)	284977	20.0000	19.9(H)
9	1,3-Butadiene	54	3.282	3.282	(0.584)	213076	20.0000	20.4
10	Bromomethane	94	3.417	3.417	(0.608)	262284	20.0000	19.8
11	Chloroethane	64	3.472	3.472	(0.618)	131687	20.0000	20.0
12	Ethanol	45	3.555	3.555	(0.633)	539315	100.000	102
13	Vinyl Bromide	106	3.587	3.587	(0.638)	268301	20.0000	19.5
14	Isopentane	43	3.603	3.603	(0.641)	281297	20.0000	19.5
15	Freon 123	83	3.607	3.607	(0.642)	313230	20.0000	20.6
16	Trichlorofluoromethane	101	3.681	3.681	(0.655)	740590	20.0000	18.7(M)
17	Acrolein	56	3.690	3.690	(0.657)	268448	50.0000	48.9
18	Acetone	43	3.729	3.729	(0.664)	2020457	100.000	88.2
19	Isopropyl Alcohol	45	3.777	3.777	(0.672)	2219304	100.000	95.0
20	1,1-Dichloroethene	61	3.918	3.918	(0.697)	447186	20.0000	19.4
21	Acrylonitrile	53	3.938	3.938	(0.701)	531086	50.0000	50.2
22	Freon 113	101	3.954	3.954	(0.704)	541684	20.0000	18.1
23	Methyl Acetate	43	3.967	3.967	(0.706)	639348	20.0000	18.3

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.967	3.967	(0.706)	1378833	50.0000	45.9
	25 Methylene chloride	49	4.012	4.012	(0.714)	1441659	100.000	89.2(H)
	26 Allyl Chloride	76	4.025	4.025	(0.716)	270021	50.0000	49.5
	27 Carbon Disulfide	76	4.131	4.131	(0.735)	658435	20.0000	21.6
	28 trans-1,2-dichloroethene	96	4.285	4.285	(0.763)	264643	20.0000	20.5
	29 Methyl Tert Butyl Ether	73	4.311	4.311	(0.767)	1762335	50.0000	47.9
	30 Vinyl Acetate	43	4.398	4.398	(0.783)	772513	20.0000	19.8
	31 1,1-Dichloroethane	63	4.420	4.420	(0.787)	502791	20.0000	20.0
$	32 Hexane-d14(S)	66	4.494	4.494	(0.800)	465843	10.0000	10.1
	33 Methyl Ethyl Ketone	72	4.562	4.562	(0.812)	136332	20.0000	19.9(Q)
	34 n-Hexane	57	4.587	4.587	(0.816)	454662	20.0000	19.8(M)
	35 Di-isopropyl Ether	45	4.610	4.610	(0.820)	885656	20.0000	19.8
	36 Ethyl Acetate	43	4.722	4.722	(0.840)	596888	20.0000	20.2
	37 cis-1,2-Dichloroethene	96	4.732	4.732	(0.842)	294426	20.0000	20.4
	38 Ethyl Tert-Butyl Ether	59	4.835	4.835	(0.860)	2280106	50.0000	48.8
	39 Chloroform	83	4.851	4.851	(0.863)	596539	20.0000	20.0
	40 Tetrahydrofuran	42	4.999	4.999	(0.890)	327751	20.0000	20.5
	41 1,1,1-Trichloroethane	97	5.237	5.237	(0.932)	693039	20.0000	19.7
	42 1,2-Dichloroethane	62	5.243	5.243	(0.933)	507033	20.0000	19.0
	43 Benzene	78	5.471	5.471	(0.974)	926597	20.0000	19.9
	44 Carbon tetrachloride	117	5.491	5.491	(0.977)	728330	20.0000	20.7
	45 Cyclohexane	56	5.491	5.491	(0.977)	444479	20.0000	19.1
	46 Tert Amyl Methyl Ether	73	5.610	5.610	(0.998)	890854	20.0000	19.9
*	47 1,4-Difluorobenzene	114	5.619	5.619	(1.000)	1443091	10.0000	
	48 2,2,4-Trimethylpentane	57	5.777	5.777	(1.028)	3434763	50.0000	47.6
	49 Heptane	43	5.896	5.896	(1.049)	527590	20.0000	20.3
	50 1,2-Dichloropropane	63	5.973	5.973	(1.063)	338436	20.0000	20.1
	51 Trichloroethene	130	5.992	5.992	(1.066)	479589	20.0000	19.8
	52 Methyl methacrylate	69	6.050	6.050	(1.077)	335488	20.0000	21.3
	53 1,4-Dioxane	88	6.070	6.070	(1.080)	227042	20.0000	20.9
	54 Bromodichloromethane	83	6.092	6.092	(1.084)	709196	20.0000	20.6
	55 Methylcyclohexane	98	6.439	6.439	(1.146)	266242	20.0000	19.7
	56 Methyl Isobutyl Ketone	43	6.536	6.536	(1.163)	1773972	50.0000	50.0
	57 cis-1,3-Dichloropropene	75	6.590	6.590	(1.173)	572916	20.0000	19.7
	58 trans-1,3-Dichloropropene	75	6.989	6.989	(1.244)	540240	20.0000	19.8
$	59 Toluene-d8 (S)	98	7.082	7.082	(1.260)	1296141	10.0000	10.0
	60 1,1,2-Trichloroethane	97	7.150	7.150	(1.272)	374337	20.0000	19.3
	61 Toluene	91	7.160	7.160	(1.274)	1147560	20.0000	19.7
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.853)	1667264	50.0000	53.9
	63 n-Octane	43	7.587	7.587	(0.877)	704727	20.0000	21.0
	64 Dibromochloromethane	129	7.684	7.684	(0.888)	768082	20.0000	19.9
	65 1,2-Dibromoethane	107	7.912	7.912	(0.915)	653542	20.0000	20.7
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	651668	20.0000	19.2
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	978826	10.0000	
	68 Chlorobenzene	112	8.690	8.690	(1.005)	970936	20.0000	20.0
	69 Ethyl Benzene	91	8.938	8.938	(1.033)	1505148	20.0000	20.9
	70 m&p-Xylene	91	9.085	9.085	(1.051)	2274387	40.0000	40.3
	71 n-Nonane	43	9.475	9.475	(1.096)	626476	20.0000	21.5
	72 Bromoform	173	9.484	9.484	(1.097)	705920	20.0000	19.8
	73 Styrene	104	9.510	9.510	(1.100)	918818	20.0000	20.0
	74 o-Xylene	91	9.584	9.584	(1.108)	1186565	20.0000	20.6
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	688020	20.0000	21.7
	76 Isopropylbenzene	105	10.166	10.166	(1.175)	1606607	20.0000	19.7
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	1826015	20.0000	19.8

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.262)	1614385	20.0000	20.0
79	1,3,5-Trimethylbenzene	105	11.005	11.005	(1.273)	1370583	20.0000	19.9
80	n-Decane	57	11.381	11.381	(2.025)	729038	20.0000	19.5
81	Tert-Butyl Benzene	119	11.500	11.500	(1.330)	1377149	20.0000	21.2
82	1,2,4-Trimethylbenzene	105	11.516	11.516	(1.332)	1246916	20.0000	21.4
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	815126	20.0000	19.7
84	Sec- Butylbenzene	105	11.809	11.809	(1.365)	1735332	20.0000	21.3
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.371)	611804	10.0000	11.3(M)
86	Benzyl Chloride	91	11.867	11.867	(1.372)	897595	20.0000	20.0
87	1,4-Dichlorobenzene	146	11.892	11.892	(1.375)	828579	20.0000	21.8
88	p-Isopropyltoluene	119	11.992	11.992	(1.387)	1535893	20.0000	19.8
89	1,2,3-Trimethylbenzene	105	12.037	12.037	(1.392)	1243764	20.0000	21.7
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.420)	776749	20.0000	19.9
91	N-Butylbenzene	91	12.462	12.462	(1.441)	1214291	20.0000	20.4
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	319932	20.0000	20.3
93	1,2,4-Trichlorobenzene	180	14.040	14.040	(1.623)	358428	20.0000	20.3
94	Naphthalene	128	14.169	14.169	(1.638)	797177	20.0000	19.8
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	364513	20.0000	21.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06114.D
Lab Smp Id: cal6
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

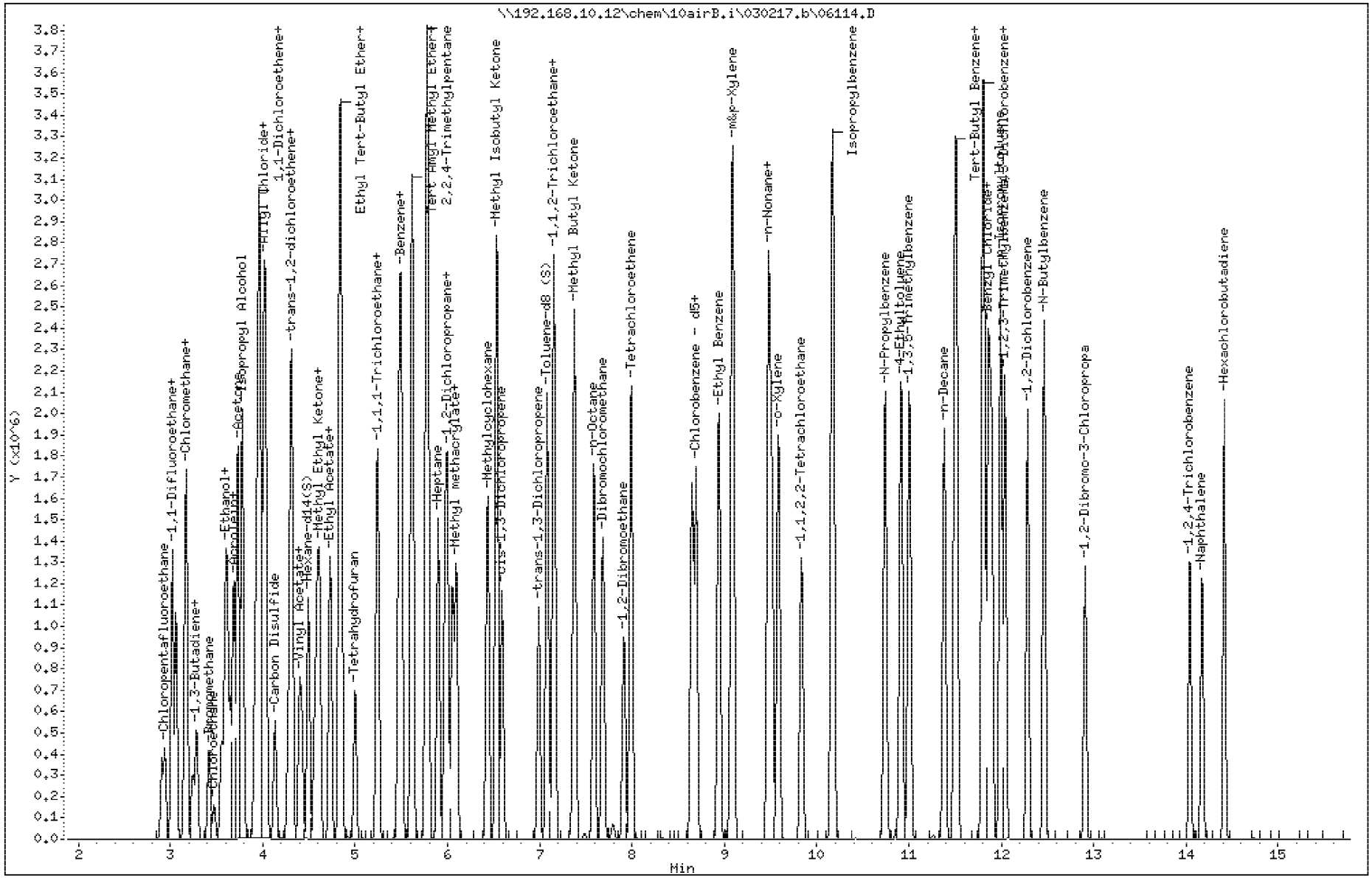
Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1443091	2.05
67 Chlorobenzene - d	951026	570616	1331436	978826	2.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

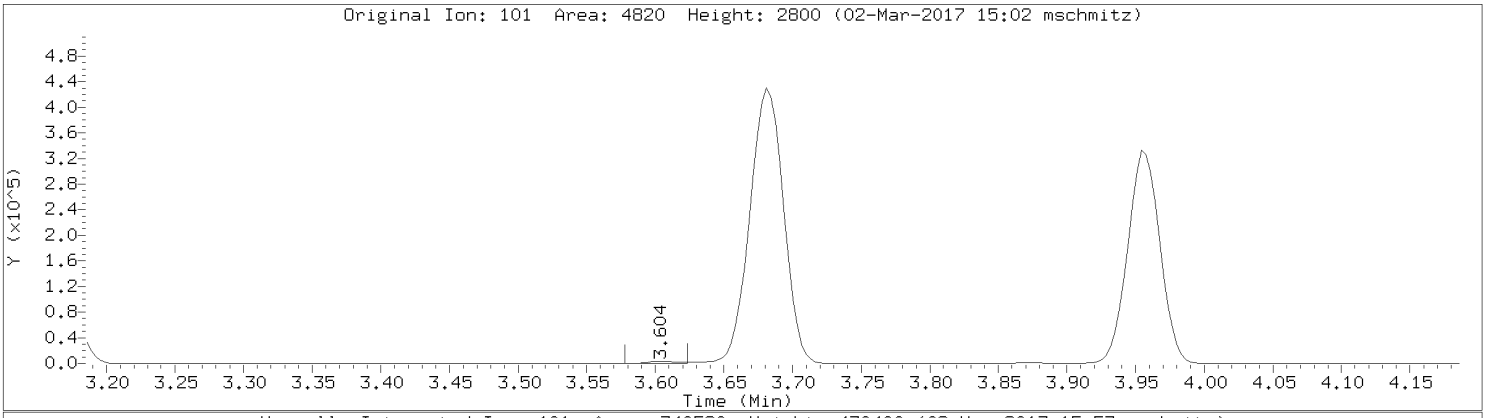
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

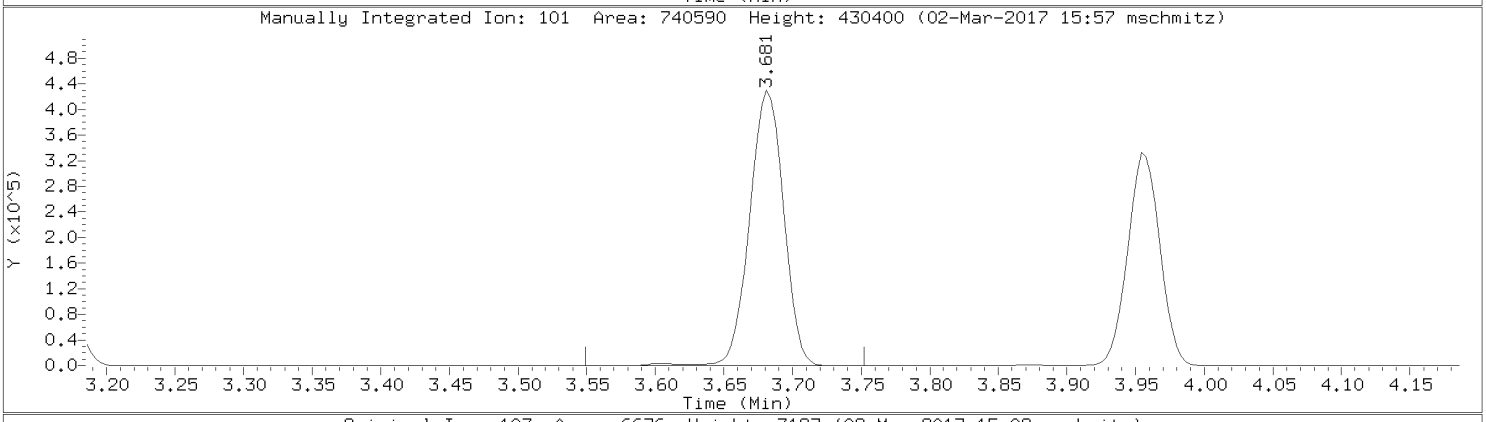
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Date : 02-MAR-2017 13:39
Client ID:
Instrument: 10airB.i
Sample Info:
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

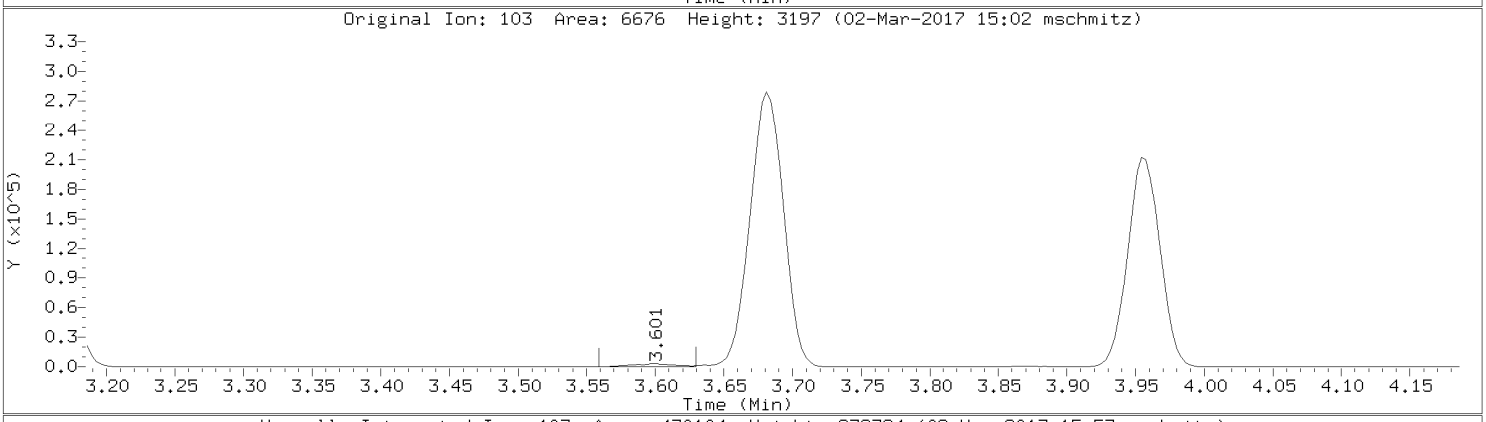


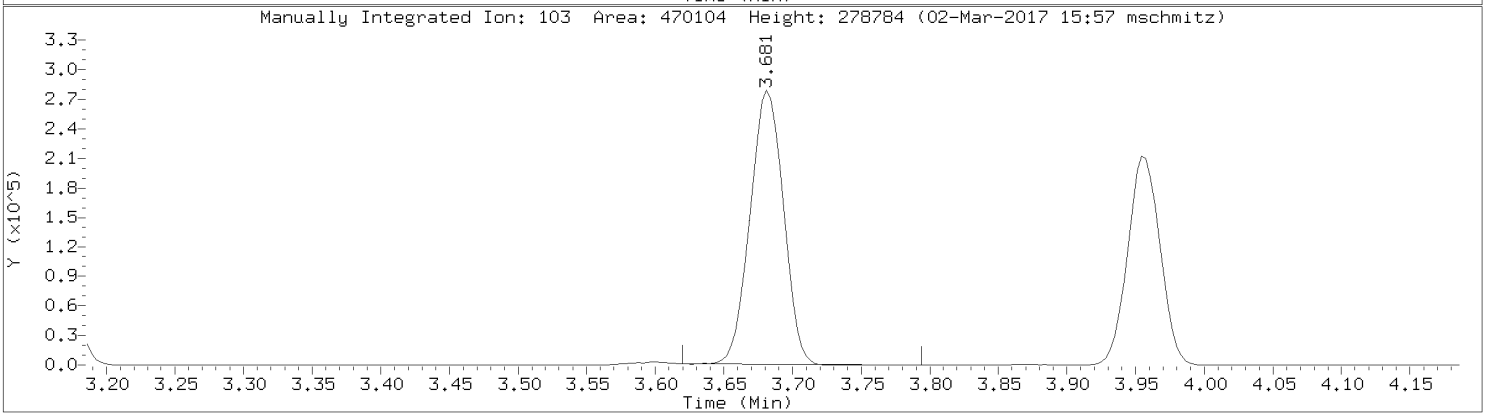
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

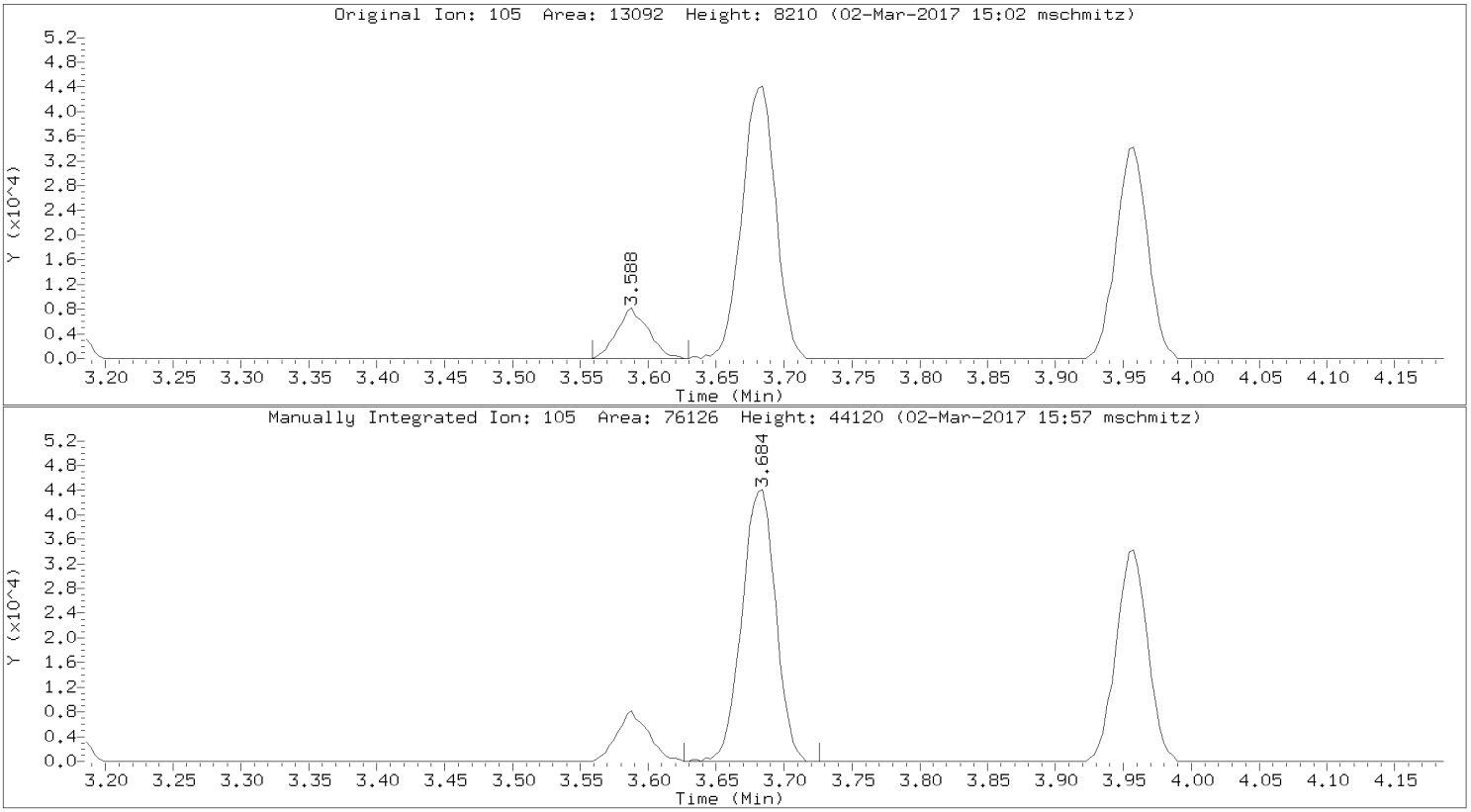






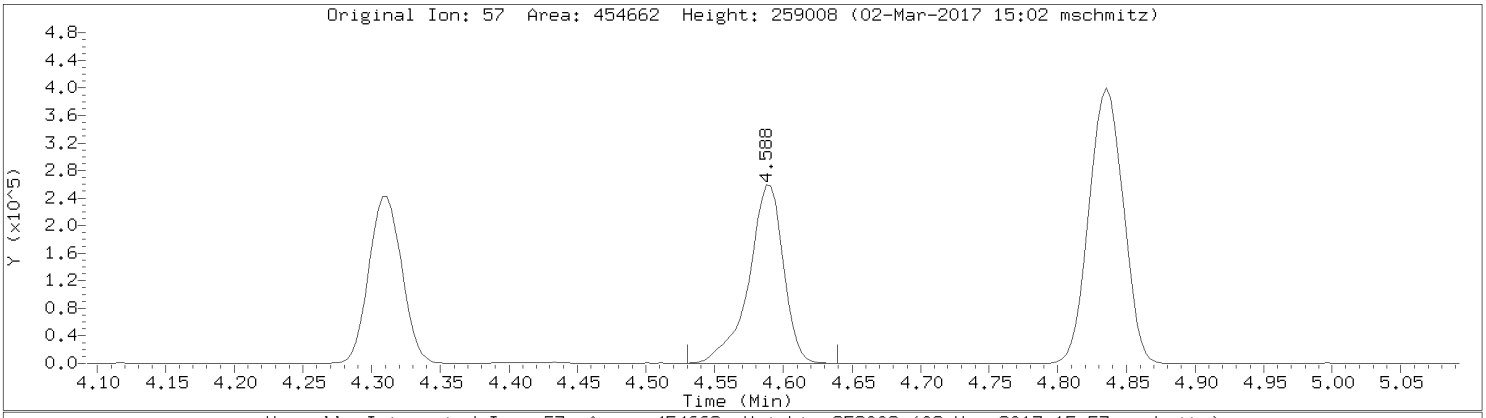


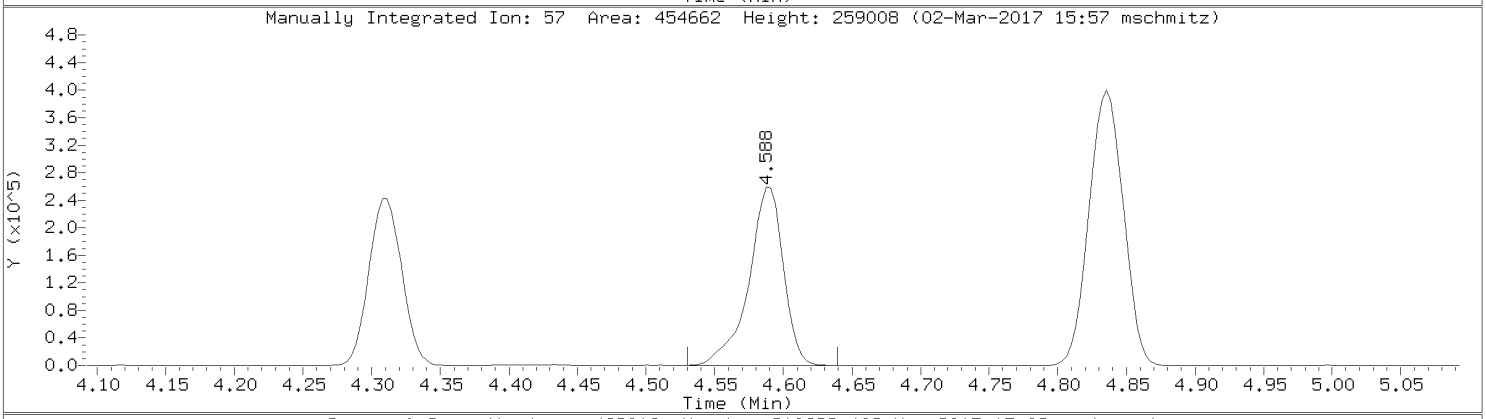
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

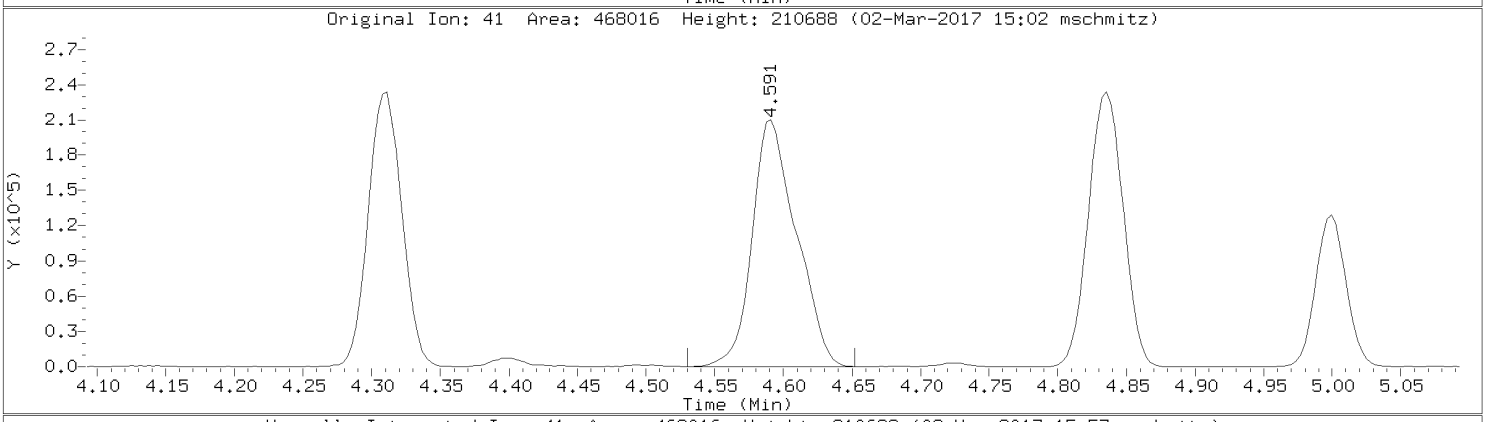


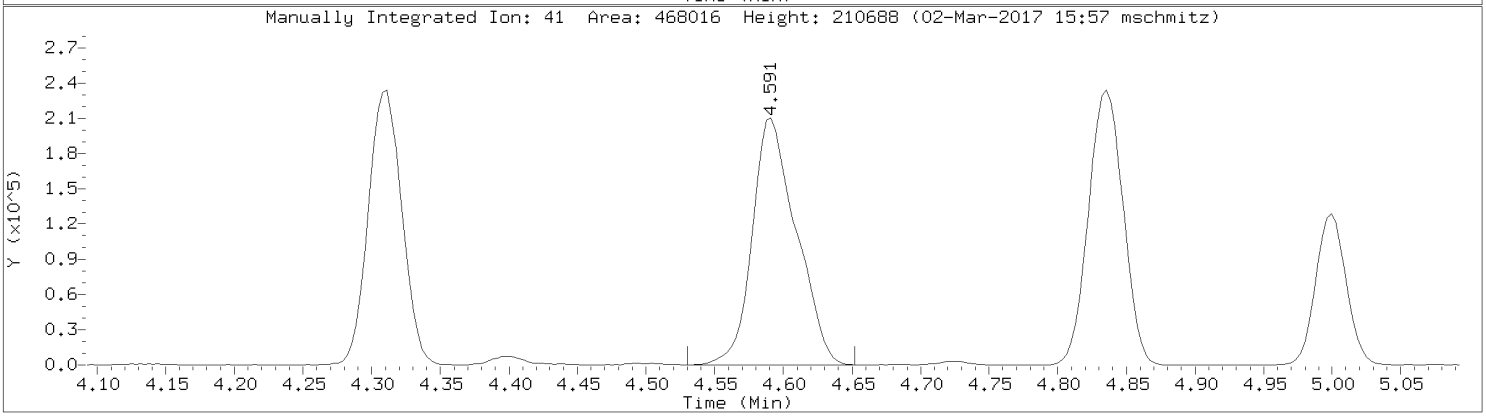
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: n-Hexane
CAS Number: 110-54-3

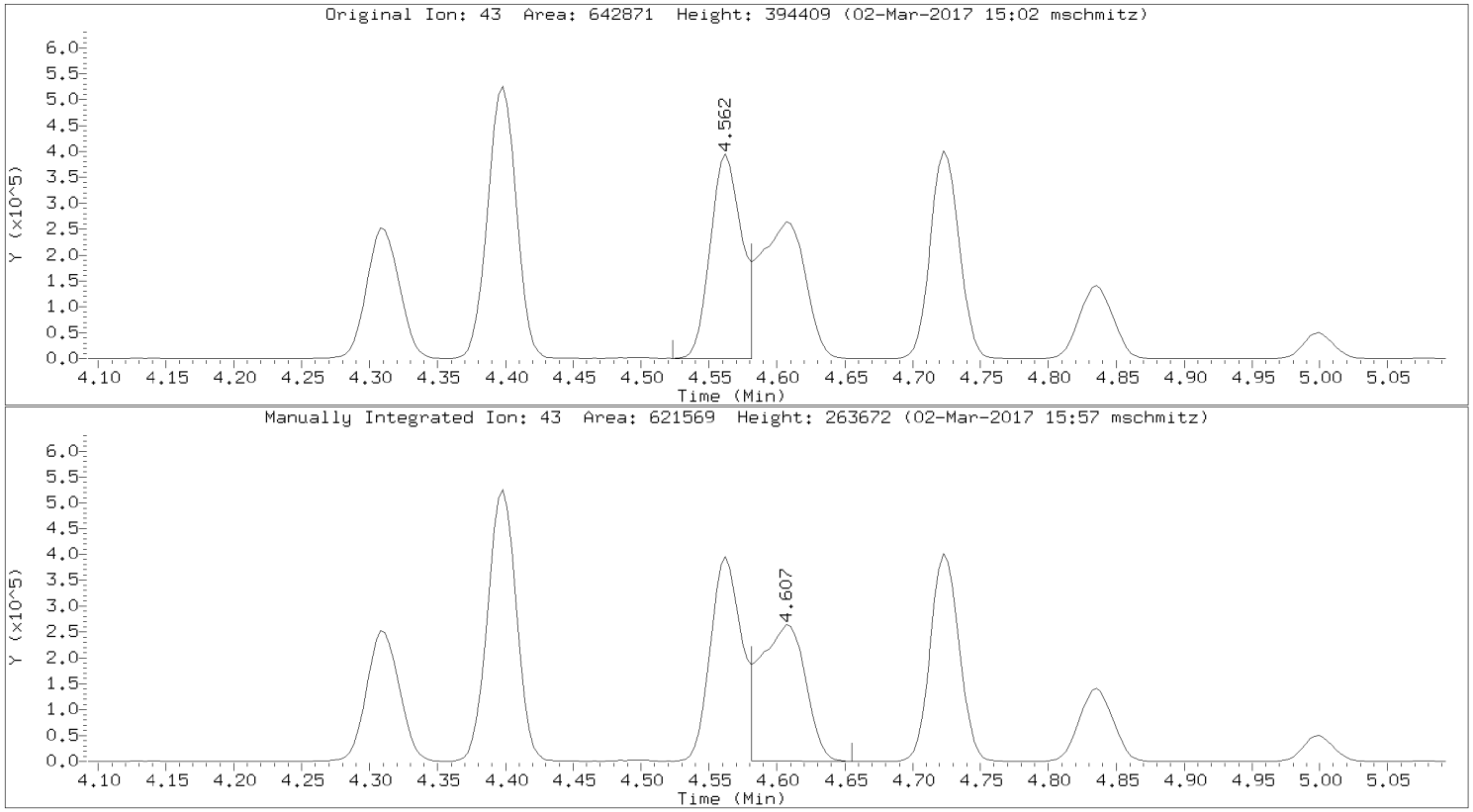






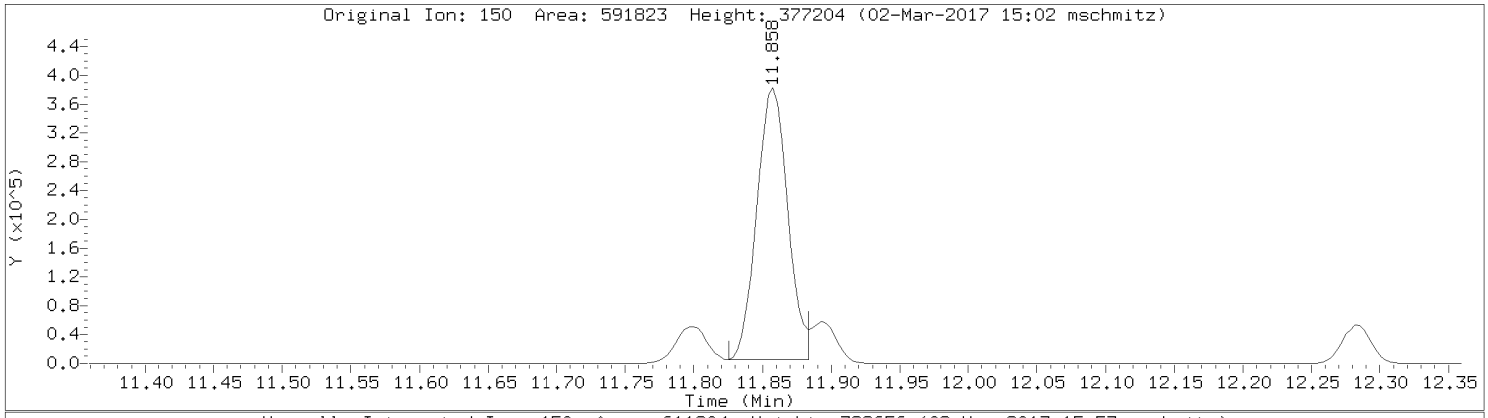


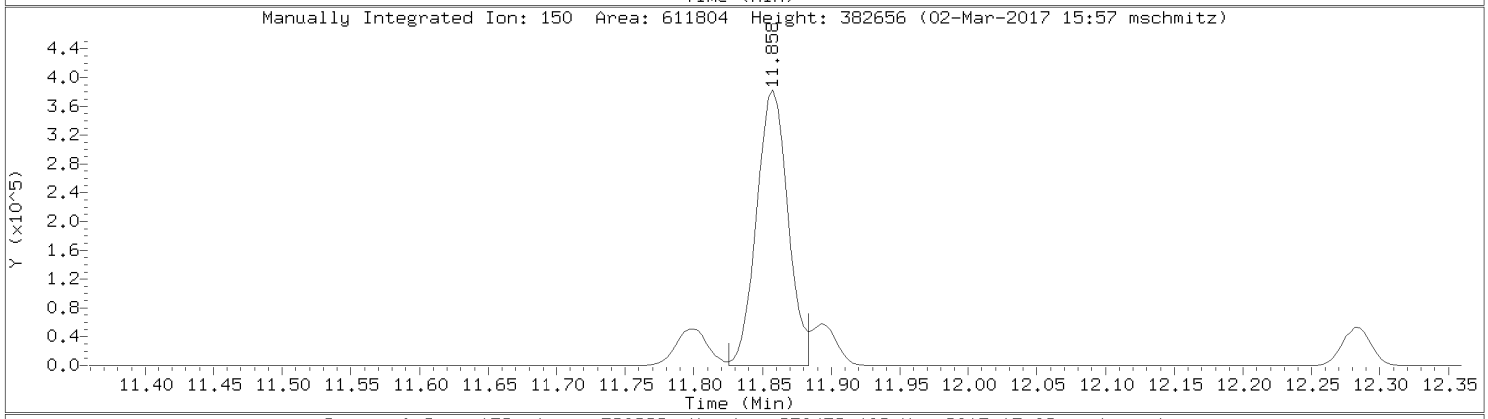
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

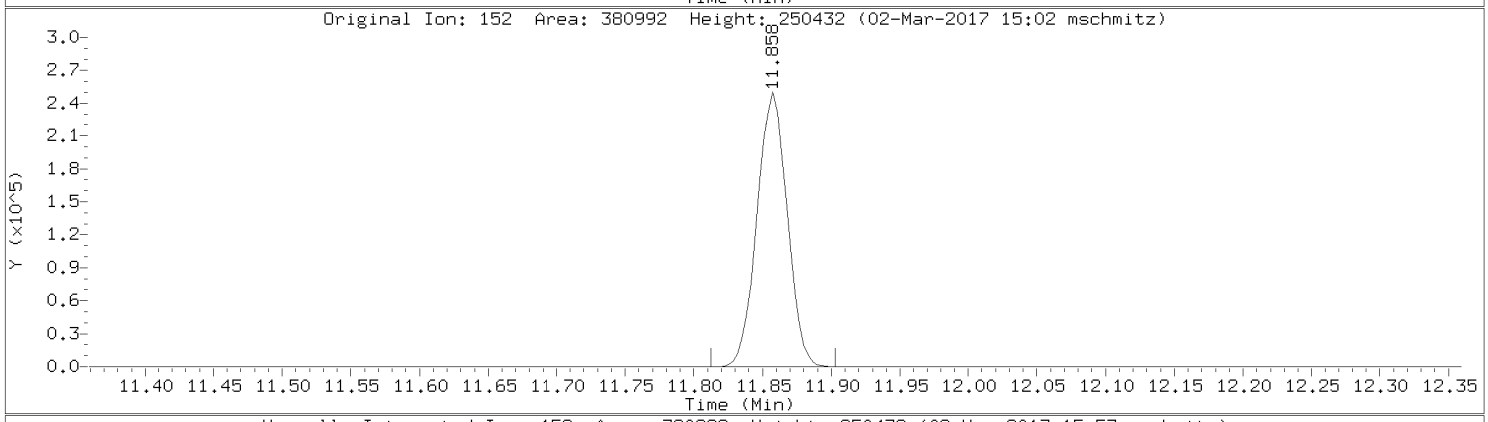


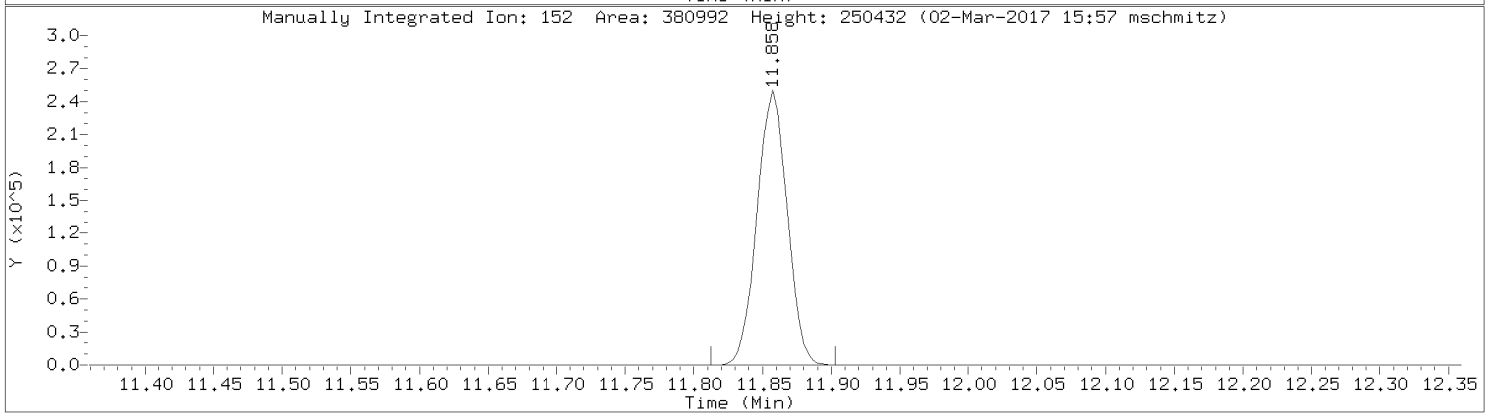
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Lab Smp Id: cal7
Inj Date : 02-MAR-2017 14:08
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:01 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 13:39 Cal File: 06114.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.941	2.941	(0.523)	135575	30.0000	13.9
2	1,1-Difluoroethane	65	3.025	3.025	(0.538)	252667	30.0000	32.7(A)
3	Chlorodifluoromethane	67	3.025	3.025	(0.538)	117390	30.0000	31.8(A)
4	Propylene	41	3.028	3.028	(0.539)	287080	30.0000	30.8(A)
5	Dichlorodifluoromethane	85	3.063	3.063	(0.545)	1170979	30.0000	31.5(A)
6	Chloromethane	50	3.163	3.163	(0.563)	464037	30.0000	30.7(A)
7	Dichlorotetrafluoroethane	85	3.176	3.176	(0.565)	1102542	30.0000	30.2(A)
8	Vinyl chloride	62	3.243	3.243	(0.577)	420720	30.0000	32.2(AM)
9	1,3-Butadiene	54	3.285	3.285	(0.584)	318197	30.0000	33.4(A)
10	Bromomethane	94	3.423	3.423	(0.609)	382319	30.0000	31.6(A)
11	Chloroethane	64	3.478	3.478	(0.619)	190738	30.0000	31.8(A)
12	Ethanol	45	3.555	3.555	(0.632)	775578	150.000	160(A)
13	Vinyl Bromide	106	3.591	3.591	(0.639)	389041	30.0000	31.1
14	Isopentane	43	3.610	3.610	(0.642)	397743	30.0000	30.3(A)
15	Freon 123	83	3.613	3.613	(0.643)	415076	30.0000	30.0(A)
16	Trichlorofluoromethane	101	3.684	3.684	(0.655)	1064749	30.0000	29.5(H)
17	Acrolein	56	3.697	3.697	(0.657)	385253	75.0000	75.3(A)
18	Acetone	43	3.732	3.732	(0.664)	2817023	150.000	135
19	Isopropyl Alcohol	45	3.783	3.783	(0.673)	3112673	150.000	146
20	1,1-Dichloroethene	61	3.922	3.922	(0.698)	640702	30.0000	30.5(A)
21	Acrylonitrile	53	3.941	3.941	(0.701)	741537	75.0000	76.8(A)
22	Freon 113	101	3.960	3.960	(0.704)	753488	30.0000	27.7
23	Methyl Acetate	43	3.973	3.973	(0.707)	855023	30.0000	26.9

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.973	3.973	(0.707)	1867853	75.0000	68.2
	25 Methylene chloride	49	4.015	4.015	(0.714)	1936342	150.000	131(H)
	26 Allyl Chloride	76	4.031	4.031	(0.717)	360233	75.0000	75.2(A)
	27 Carbon Disulfide	76	4.137	4.137	(0.736)	916812	30.0000	33.0(A)
	28 trans-1,2-dichloroethene	96	4.285	4.285	(0.762)	368372	30.0000	31.3(A)
	29 Methyl Tert Butyl Ether	73	4.314	4.314	(0.767)	2364085	75.0000	70.4
	30 Vinyl Acetate	43	4.401	4.401	(0.783)	1072670	30.0000	30.1(A)
	31 1,1-Dichloroethane	63	4.423	4.423	(0.787)	705229	30.0000	30.7(A)
$	32 Hexane-d14(S)	66	4.497	4.497	(0.800)	441746	10.0000	10.5
	33 Methyl Ethyl Ketone	72	4.565	4.565	(0.812)	188259	30.0000	30.1(AQ)
	34 n-Hexane	57	4.591	4.591	(0.816)	609296	30.0000	29.0(M)
	35 Di-isopropyl Ether	45	4.613	4.613	(0.820)	1197546	30.0000	29.4
	36 Ethyl Acetate	43	4.726	4.726	(0.840)	807452	30.0000	29.9
	37 cis-1,2-Dichloroethene	96	4.735	4.735	(0.842)	396164	30.0000	30.1(A)
	38 Ethyl Tert-Butyl Ether	59	4.838	4.838	(0.860)	2803101	75.0000	65.8
	39 Chloroform	83	4.854	4.854	(0.863)	772846	30.0000	28.3
	40 Tetrahydrofuran	42	5.002	5.002	(0.890)	457984	30.0000	31.4(A)
	41 1,1,1-Trichloroethane	97	5.240	5.240	(0.932)	959626	30.0000	29.9
	42 1,2-Dichloroethane	62	5.250	5.250	(0.934)	686322	30.0000	28.2
	43 Benzene	78	5.478	5.478	(0.974)	1244129	30.0000	29.3
	44 Carbon tetrachloride	117	5.494	5.494	(0.977)	984658	30.0000	30.7(A)
	45 Cyclohexane	56	5.497	5.497	(0.978)	581122	30.0000	27.3
	46 Tert Amyl Methyl Ether	73	5.613	5.613	(0.998)	1221003	30.0000	30.1(A)
*	47 1,4-Difluorobenzene	114	5.623	5.623	(1.000)	1316191	10.0000	
	48 2,2,4-Trimethylpentane	57	5.783	5.783	(1.029)	4427297	75.0000	67.3
	49 Heptane	43	5.899	5.899	(1.049)	731532	30.0000	30.8(A)
	50 1,2-Dichloropropane	63	5.973	5.973	(1.062)	464325	30.0000	30.2(A)
	51 Trichloroethene	130	5.996	5.996	(1.066)	657281	30.0000	29.7
	52 Methyl methacrylate	69	6.053	6.053	(1.077)	459040	30.0000	31.9(A)
	53 1,4-Dioxane	88	6.073	6.073	(1.080)	310720	30.0000	31.3(A)
	54 Bromodichloromethane	83	6.095	6.095	(1.084)	982419	30.0000	31.4(A)
	55 Methylcyclohexane	98	6.439	6.439	(1.145)	381479	30.0000	30.1(A)
	56 Methyl Isobutyl Ketone	43	6.539	6.539	(1.163)	2420724	75.0000	74.8
	57 cis-1,3-Dichloropropene	75	6.597	6.597	(1.173)	802416	30.0000	30.2(A)
	58 trans-1,3-Dichloropropene	75	6.992	6.992	(1.244)	767727	30.0000	30.1(A)
$	59 Toluene-d8 (S)	98	7.082	7.082	(1.260)	1240591	10.0000	10.5
	60 1,1,2-Trichloroethane	97	7.153	7.153	(1.272)	516107	30.0000	29.2
	61 Toluene	91	7.160	7.160	(1.273)	1527121	30.0000	28.7
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.853)	2256388	75.0000	73.3
	63 n-Octane	43	7.590	7.590	(0.878)	965346	30.0000	29.0
	64 Dibromochloromethane	129	7.687	7.687	(0.889)	1094955	30.0000	28.4
	65 1,2-Dibromoethane	107	7.915	7.915	(0.915)	932546	30.0000	29.6
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	904899	30.0000	26.7
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	974838	10.0000	
	68 Chlorobenzene	112	8.693	8.693	(1.005)	1410174	30.0000	29.2
	69 Ethyl Benzene	91	8.938	8.938	(1.033)	2168046	30.0000	30.2(A)
	70 m&p-Xylene	91	9.092	9.092	(1.051)	3183004	60.0000	56.6
	71 n-Nonane	43	9.478	9.478	(1.096)	847174	30.0000	29.2
	72 Bromoform	173	9.487	9.487	(1.097)	1008290	30.0000	30.1(A)
	73 Styrene	104	9.513	9.513	(1.100)	1314898	30.0000	30.0(A)
	74 o-Xylene	91	9.587	9.587	(1.109)	1705098	30.0000	29.8
	75 1,1,2,2-Tetrachloroethane	83	9.835	9.835	(1.137)	996936	30.0000	31.6(A)
	76 Isopropylbenzene	105	10.166	10.166	(1.175)	2302433	30.0000	28.4
	77 N-Propylbenzene	91	10.745	10.745	(1.242)	2624651	30.0000	28.6

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.918	10.918	(1.262)	2322755	30.0000	30.0(A)
79	1,3,5-Trimethylbenzene	105	11.005	11.005	(1.273)	1957096	30.0000	28.5
80	n-Decane	57	11.388	11.388	(2.025)	1038909	30.0000	30.4(A)
81	Tert-Butyl Benzene	119	11.503	11.503	(1.330)	1928094	30.0000	29.8
82	1,2,4-Trimethylbenzene	105	11.519	11.519	(1.332)	1735296	30.0000	30.0
83	1,3-Dichlorobenzene	146	11.799	11.799	(1.364)	1144352	30.0000	27.8
84	Sec- Butylbenzene	105	11.815	11.815	(1.366)	2402689	30.0000	29.6
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.371)	598482	10.0000	11.1
86	Benzyl Chloride	91	11.873	11.873	(1.373)	1343950	30.0000	30.0
87	1,4-Dichlorobenzene	146	11.899	11.899	(1.376)	1203116	30.0000	31.7(A)
88	p-Isopropyltoluene	119	11.995	11.995	(1.387)	2198943	30.0000	28.4
89	1,2,3-Trimethylbenzene	105	12.040	12.040	(1.392)	1791106	30.0000	31.3(A)
90	1,2-Dichlorobenzene	146	12.285	12.285	(1.420)	1131959	30.0000	30.0(A)
91	N-Butylbenzene	91	12.465	12.465	(1.441)	1755538	30.0000	29.6
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	467876	30.0000	29.7
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.623)	553071	30.0000	29.9
94	Naphthalene	128	14.169	14.169	(1.638)	1218782	30.0000	30.2(A)
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	510994	30.0000	30.2(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06115.D
Lab Smp Id: cal7
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

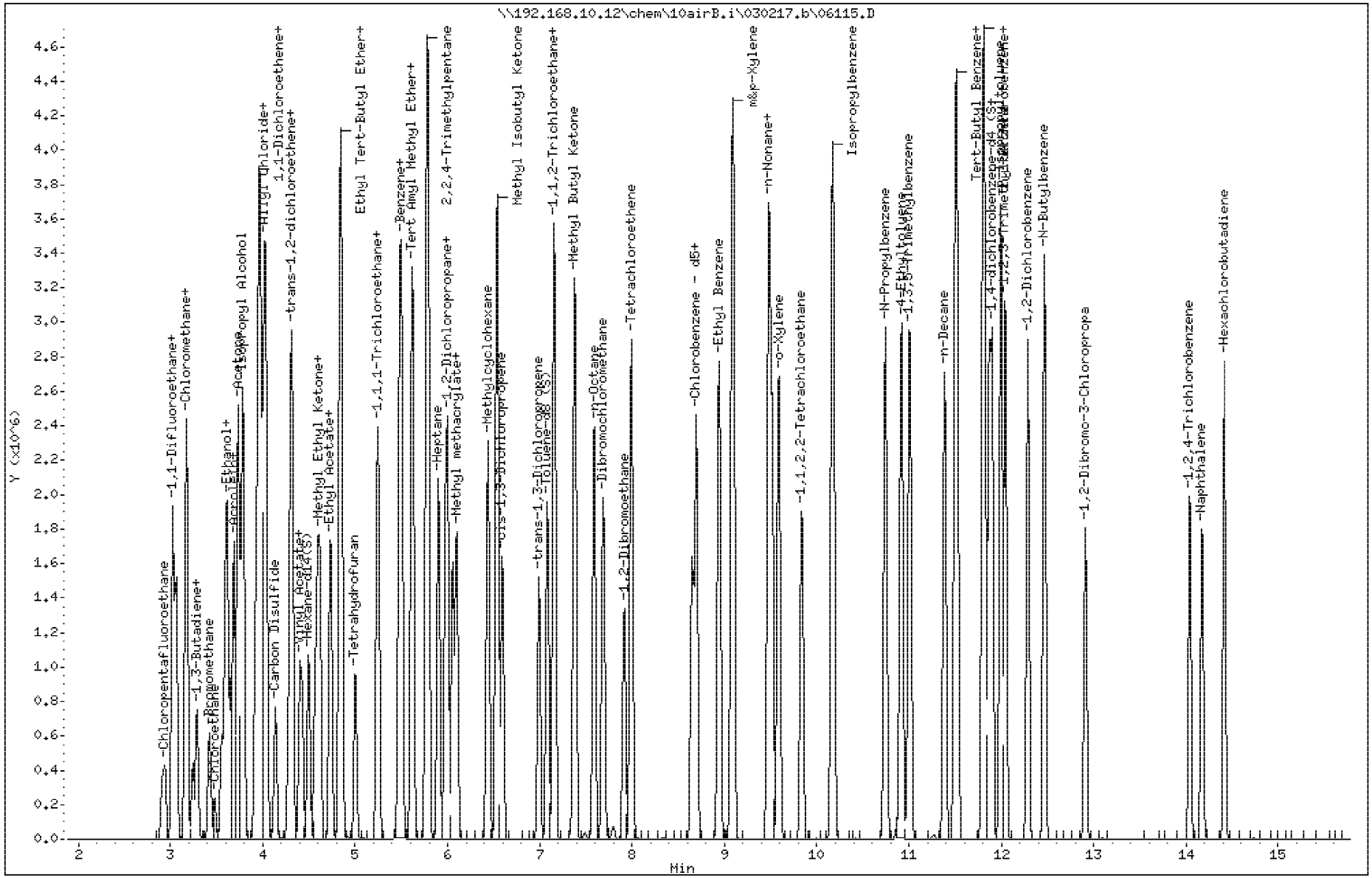
Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1316191	-6.92
67 Chlorobenzene - d	951026	570616	1331436	974838	2.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

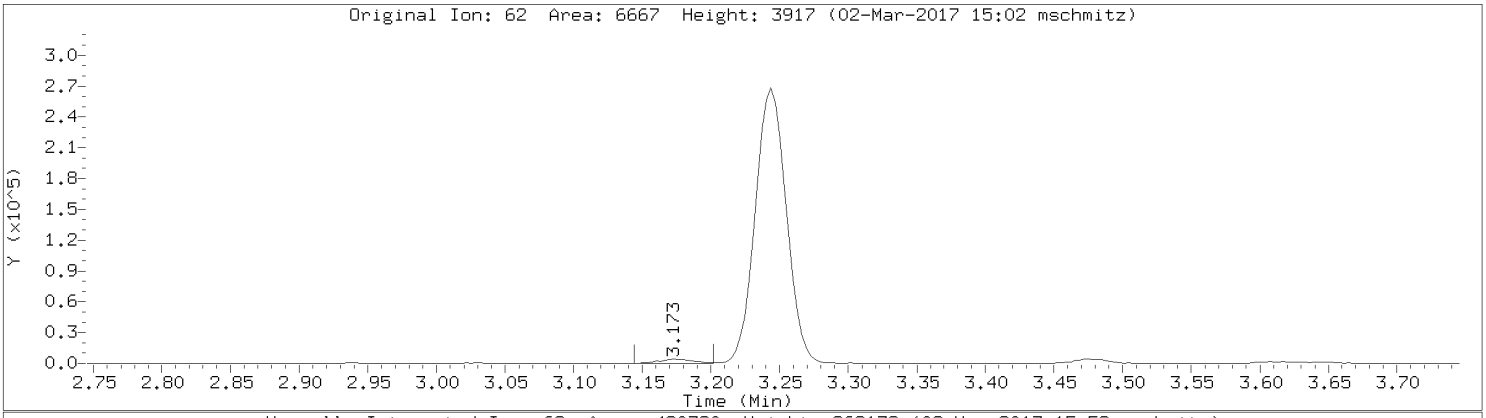
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

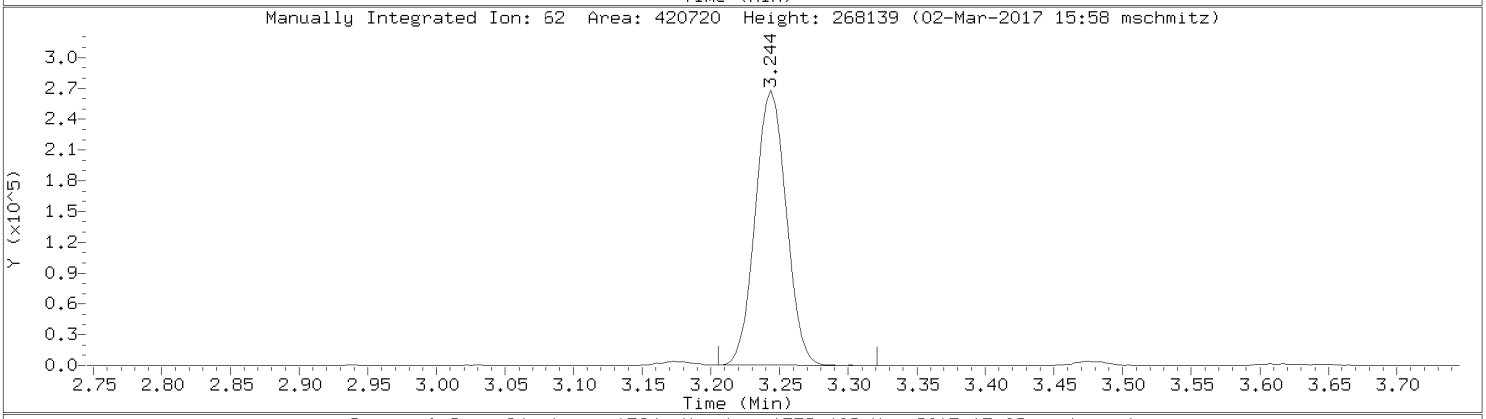
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Date : 02-MAR-2017 14:08
Client ID:
Instrument: 10airB.i
Sample Info:
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

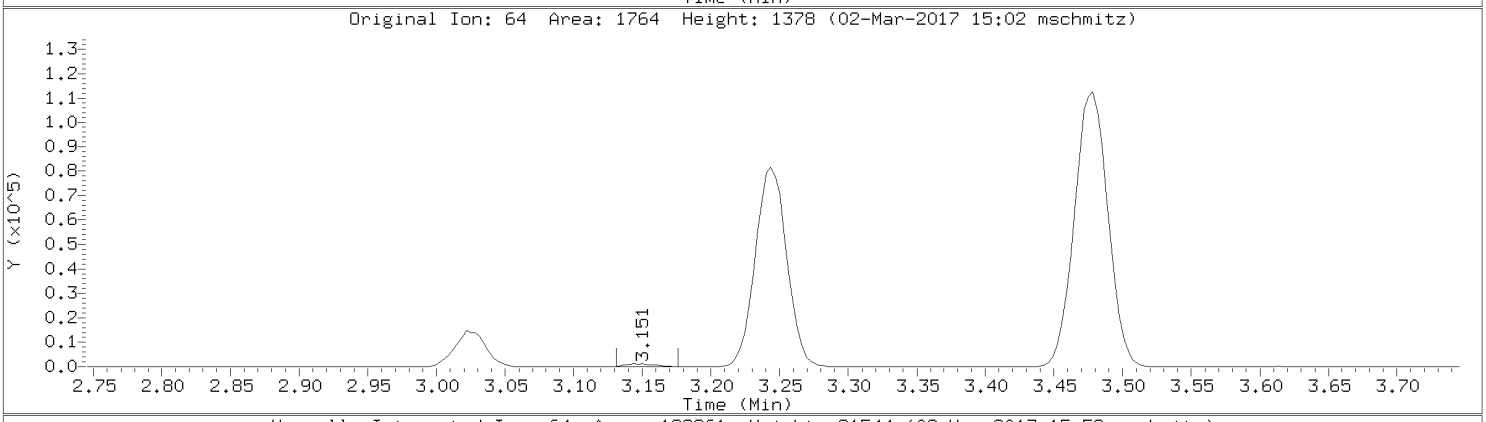


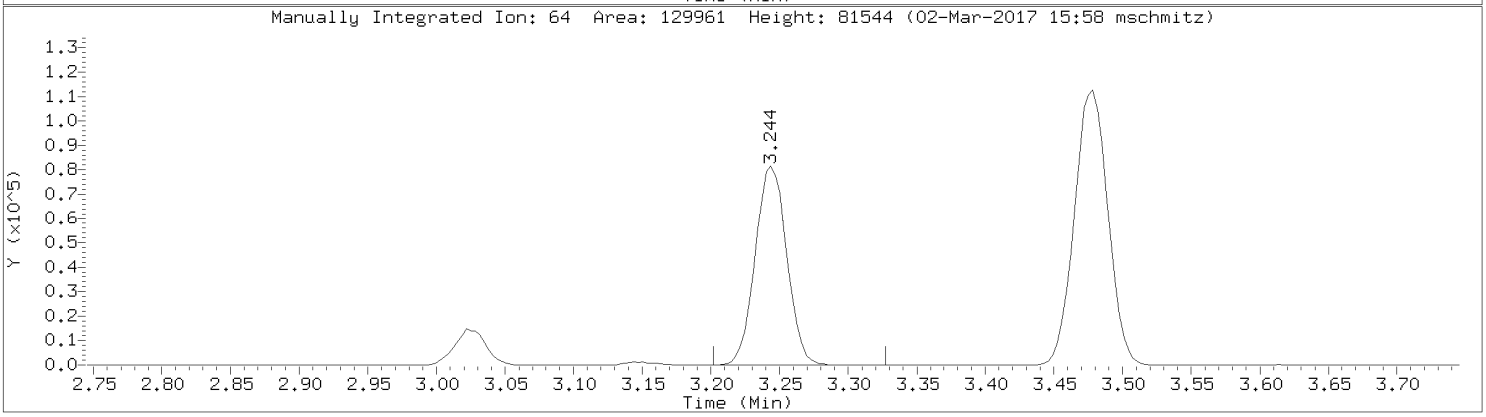
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06115.D
Injection Date: 02-MAR-2017 14:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: Vinyl chloride
CAS Number: 75-01-4



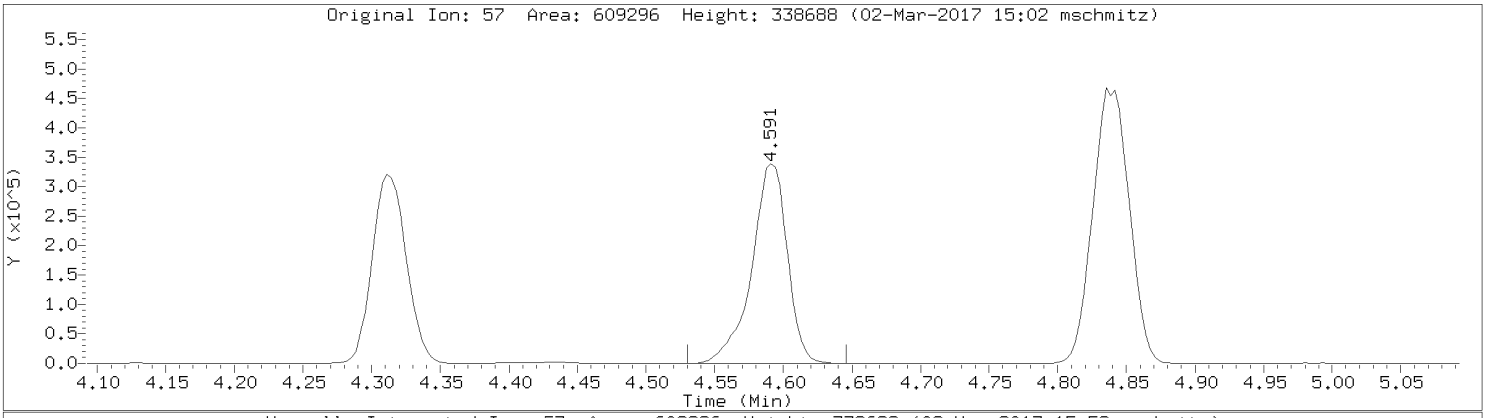


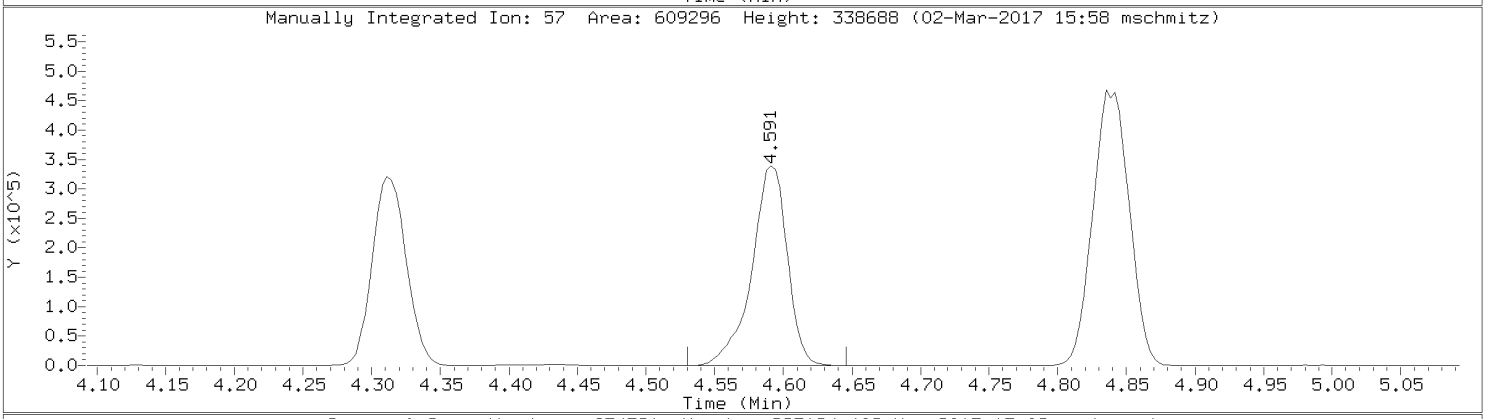


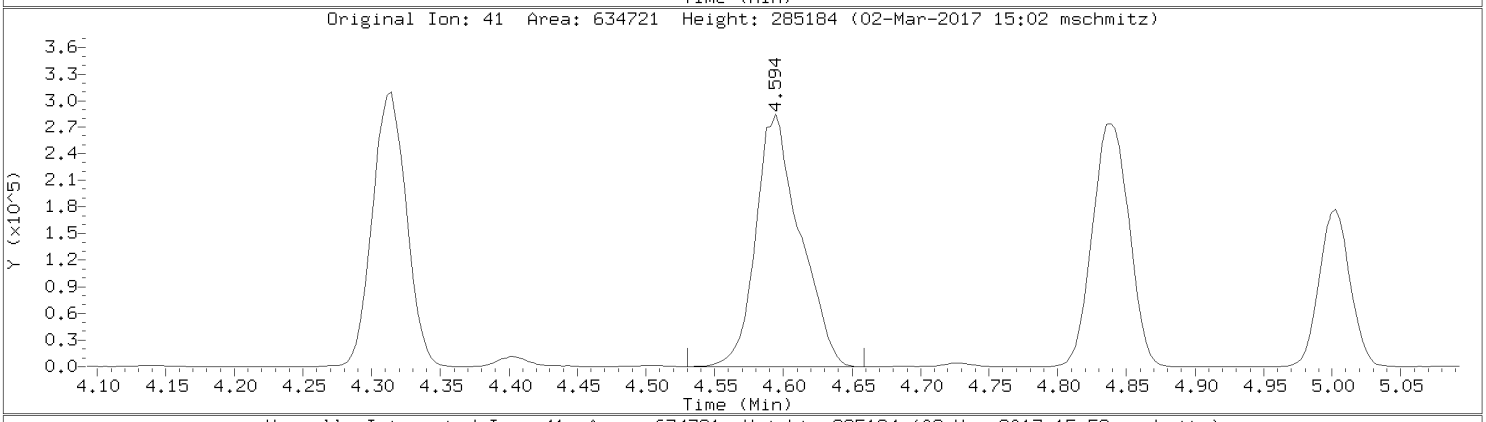


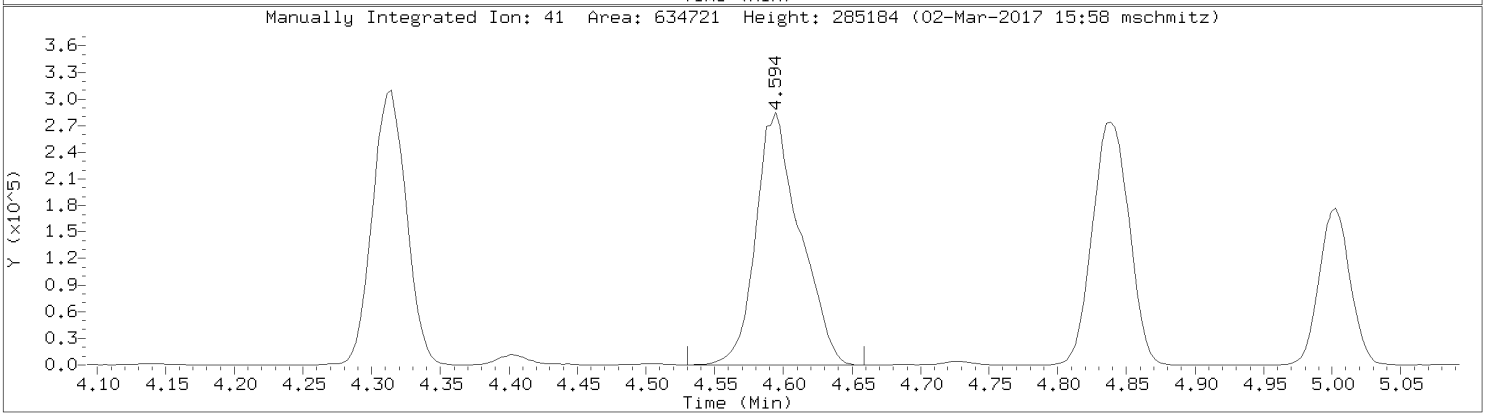
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06115.D
Injection Date: 02-MAR-2017 14:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: n-Hexane
CAS Number: 110-54-3

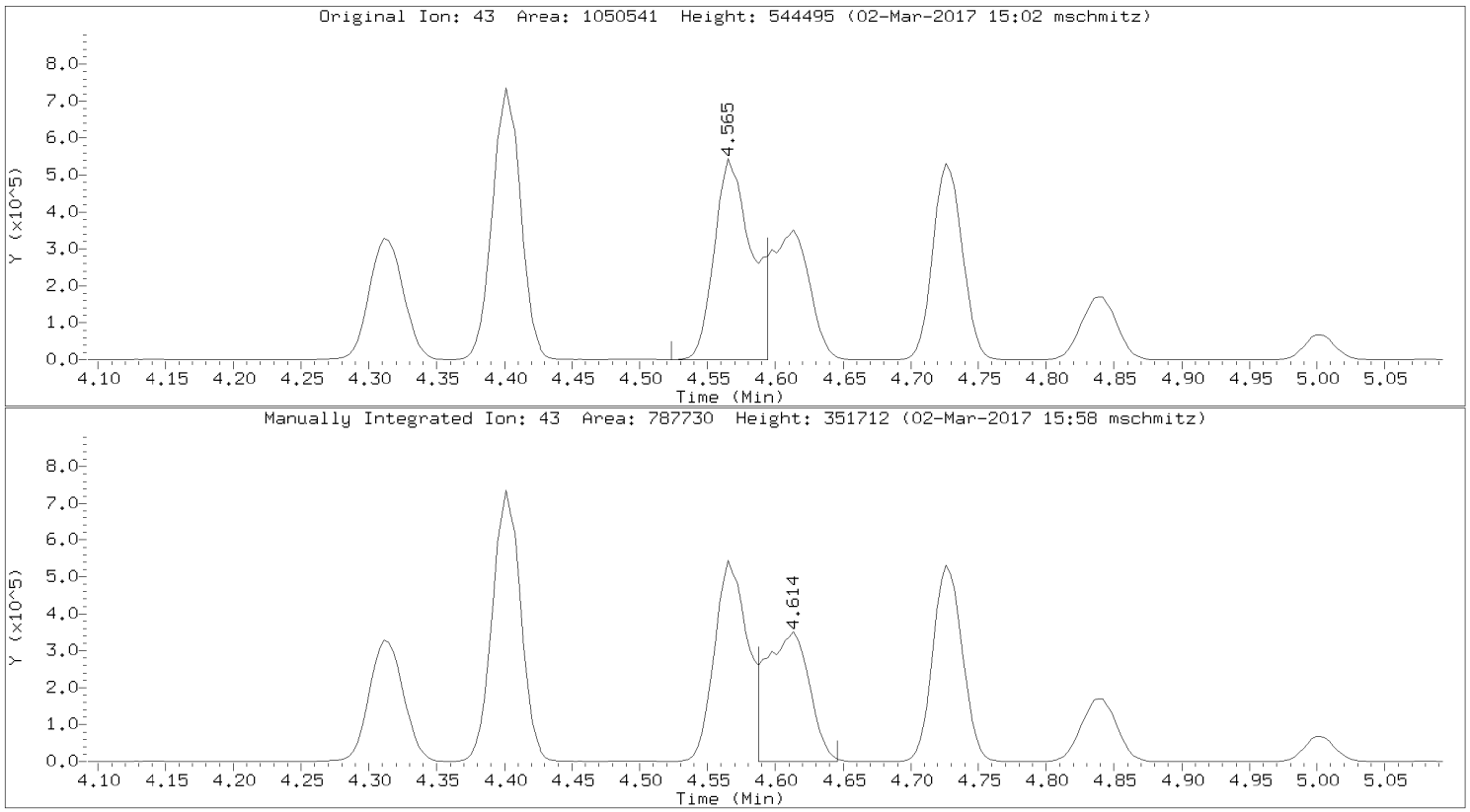








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06115.D
Injection Date: 02-MAR-2017 14:08
Instrument: 10airB.i
Lab Sample ID: cal7



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Lab Smp Id: ICV
Inj Date : 02-MAR-2017 15:02
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:01 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.941	(0.525)	2329	0.34054	0.341
2	1,1-Difluoroethane	65	3.015	3.025	(0.537)	1500	0.18027	0.180(QM)
3	Chlorodifluoromethane	67	3.031	3.025	(0.540)	40126	10.0617	10.1(Q)
4	Propylene	41	3.034	3.028	(0.541)	95911	9.07793	9.08
5	Dichlorodifluoromethane	85	3.066	3.063	(0.546)	400235	9.92461	9.92
6	Chloromethane	50	3.160	3.163	(0.563)	156772	9.61397	9.61
7	Dichlorotetrafluoroethane	85	3.169	3.176	(0.565)	371174	9.42006	9.42
8	Vinyl chloride	62	3.237	3.243	(0.577)	139316	9.88996	9.89
9	1,3-Butadiene	54	3.282	3.285	(0.585)	102070	9.94894	9.95
10	Bromomethane	94	3.417	3.423	(0.609)	122618	9.40917	9.41
11	Chloroethane	64	3.468	3.478	(0.618)	63153	9.74957	9.75
12	Ethanol	45	3.542	3.555	(0.631)	60462	11.5940	11.6
13	Vinyl Bromide	106	3.584	3.591	(0.639)	136378	10.1033	10.1
14	Isopentane	43	3.606	3.610	(0.643)	133832	9.35317	9.35
15	Freon 123	83	3.616	3.613	(0.644)	5394	0.28052	0.281
16	Trichlorofluoromethane	101	3.677	3.684	(0.655)	364964	9.37969	9.38
17	Acrolein	56	3.677	3.697	(0.655)	49388	9.57669	9.58
18	Acetone	43	3.719	3.732	(0.663)	235507	10.4583	10.5
19	Isopropyl Alcohol	45	3.761	3.783	(0.670)	273721	11.9185	11.9
20	1,1-Dichloroethene	61	3.912	3.922	(0.697)	222206	9.81933	9.82
21	Acrylonitrile	53	3.918	3.941	(0.698)	113870	10.9434	10.9
22	Freon 113	101	3.954	3.960	(0.704)	285795	9.72658	9.73
23	Methyl Acetate	43	3.951	3.973	(0.704)	57904	1.68890	1.69(Q)

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
24	Tert Butyl Alcohol (TBA)	59	3.951	3.973	(0.704)	348162	11.7929	11.8
25	Methylene chloride	49	4.002	4.015	(0.713)	176972	11.1346	11.1
26	Allyl Chloride	76	4.015	4.031	(0.715)	60279	10.7959	10.8
27	Carbon Disulfide	76	4.127	4.137	(0.735)	368150	12.2991	12.3
28	trans-1,2-dichloroethene	96	4.272	4.285	(0.761)	144755	11.4008	11.4
29	Methyl Tert Butyl Ether	73	4.307	4.314	(0.767)	392539	10.8451	10.8
30	Vinyl Acetate	43	4.385	4.401	(0.781)	391953	10.3344	10.3
31	1,1-Dichloroethane	63	4.404	4.423	(0.785)	254084	10.2735	10.3
$ 32	Hexane-d14(S)	66	4.491	4.497	(0.800)	463227	10.2588	10.3
33	Methyl Ethyl Ketone	72	4.555	4.565	(0.812)	65859	9.81699	9.82(QM)
34	n-Hexane	57	4.584	4.591	(0.817)	229548	10.1426	10.1
35	Di-isopropyl Ether	45	4.603	4.613	(0.820)	430367	9.80507	9.81
36	Ethyl Acetate	43	4.716	4.726	(0.840)	301709	10.3581	10.4
37	cis-1,2-Dichloroethene	96	4.722	4.735	(0.841)	148653	10.4788	10.5
38	Ethyl Tert-Butyl Ether	59	4.828	4.838	(0.860)	511155	11.1226	11.1
39	Chloroform	83	4.841	4.854	(0.863)	307382	10.4542	10.5
40	Tetrahydrofuran	42	4.995	5.002	(0.890)	158403	10.0789	10.1
41	1,1,1-Trichloroethane	97	5.227	5.240	(0.931)	341572	9.87469	9.87
42	1,2-Dichloroethane	62	5.237	5.250	(0.933)	257885	9.82778	9.83
43	Benzene	78	5.465	5.478	(0.974)	459947	10.0486	10.0
44	Carbon tetrachloride	117	5.484	5.494	(0.977)	367551	10.6322	10.6
45	Cyclohexane	56	5.491	5.497	(0.978)	223245	9.74303	9.74
46	Tert Amyl Methyl Ether	73	5.606	5.613	(0.999)	444147	9.93423	9.93
* 47	1,4-Difluorobenzene	114	5.613	5.623	(1.000)	1419261	10.0000	
48	2,2,4-Trimethylpentane	57	5.767	5.783	(1.027)	777253	10.9632	11.0
49	Heptane	43	5.893	5.899	(1.050)	255573	9.99267	9.99
50	1,2-Dichloropropane	63	5.967	5.973	(1.063)	168288	10.1502	10.2
51	Trichloroethene	130	5.989	5.996	(1.067)	236200	9.90513	9.91
52	Methyl methacrylate	69	6.047	6.053	(1.077)	160590	10.3539	10.4
53	1,4-Dioxane	88	6.066	6.073	(1.081)	112170	10.4891	10.5
54	Bromodichloromethane	83	6.085	6.095	(1.084)	340477	10.0765	10.1
55	Methylcyclohexane	98	6.430	6.439	(1.145)	130960	10.1301	10.1
56	Methyl Isobutyl Ketone	43	6.532	6.539	(1.164)	415082	11.8901	11.9
57	cis-1,3-Dichloropropene	75	6.587	6.597	(1.174)	274586	9.64372	9.64
58	trans-1,3-Dichloropropene	75	6.986	6.992	(1.245)	258132	9.85587	9.86
$ 59	Toluene-d8 (S)	98	7.079	7.082	(1.261)	1220065	9.60471	9.60
60	1,1,2-Trichloroethane	97	7.143	7.153	(1.273)	188292	9.89178	9.89
61	Toluene	91	7.150	7.160	(1.274)	568012	9.90919	9.91
62	Methyl Butyl Ketone	43	7.372	7.378	(0.853)	399551	13.3664	13.4
63	n-Octane	43	7.584	7.590	(0.877)	14523	0.44862	0.449
64	Dibromochloromethane	129	7.674	7.687	(0.888)	377778	10.1252	10.1
65	1,2-Dibromoethane	107	7.909	7.915	(0.915)	333612	10.9211	10.9
66	Tetrachloroethene	166	7.986	7.989	(0.924)	321706	9.78889	9.79
* 67	Chlorobenzene - d5	117	8.645	8.648	(1.000)	946444	10.0000	
68	Chlorobenzene	112	8.687	8.693	(1.005)	474913	10.1171	10.1
69	Ethyl Benzene	91	8.934	8.938	(1.033)	783844	11.2603	11.3
70	m&p-Xylene	91	9.082	9.092	(1.051)	667151	12.2106	12.2
71	n-Nonane	43	9.468	9.478	(1.095)	21533	0.76411	0.764
72	Bromoform	173	9.478	9.487	(1.096)	370931	10.3238	10.3
73	Styrene	104	9.507	9.513	(1.100)	474842	10.2843	10.3
74	o-Xylene	91	9.577	9.587	(1.108)	622148	11.1927	11.2
75	1,1,2,2-Tetrachloroethane	83	9.828	9.835	(1.137)	356403	11.6361	11.6
76	Isopropylbenzene	105	10.162	10.166	(1.176)	842597	10.7105	10.7
77	N-Propylbenzene	91	10.738	10.745	(1.242)	963013	10.8174	10.8

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.918	(1.262)	804135	9.94426	9.94
79	1,3,5-Trimethylbenzene	105	10.998	11.005	(1.272)	727707	10.9129	10.9
80	n-Decane	57	11.378	11.388	(2.027)	34361	1.16222	1.16
81	Tert-Butyl Benzene	119	11.497	11.503	(1.330)	726552	11.5608	11.6
82	1,2,4-Trimethylbenzene	105	11.510	11.519	(1.331)	685255	12.1884	12.2
83	1,3-Dichlorobenzene	146	11.796	11.799	(1.364)	434730	10.8817	10.9
84	Sec- Butylbenzene	105	11.809	11.815	(1.366)	947425	12.0317	12.0
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.857	(1.371)	591190	11.3393	11.3(M)
86	Benzyl Chloride	91	11.863	11.873	(1.372)	412584	9.69016	9.69
87	1,4-Dichlorobenzene	146	11.889	11.899	(1.375)	429188	11.6531	11.7
88	p-Isopropyltoluene	119	11.989	11.995	(1.387)	793341	10.5529	10.6
89	1,2,3-Trimethylbenzene	105	12.034	12.040	(1.392)	668386	12.0415	12.0
90	1,2-Dichlorobenzene	146	12.281	12.285	(1.421)	398788	10.2703	10.3
91	N-Butylbenzene	91	12.461	12.465	(1.441)	638861	11.0719	11.1
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.493)	32738	2.32488	2.32
93	1,2,4-Trichlorobenzene	180	14.034	14.037	(1.623)	156600	9.79142	9.79
94	Naphthalene	128	14.166	14.169	(1.639)	429702	11.1999	11.2
95	Hexachlorobutadiene	225	14.410	14.413	(1.667)	188041	11.4497	11.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06117.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

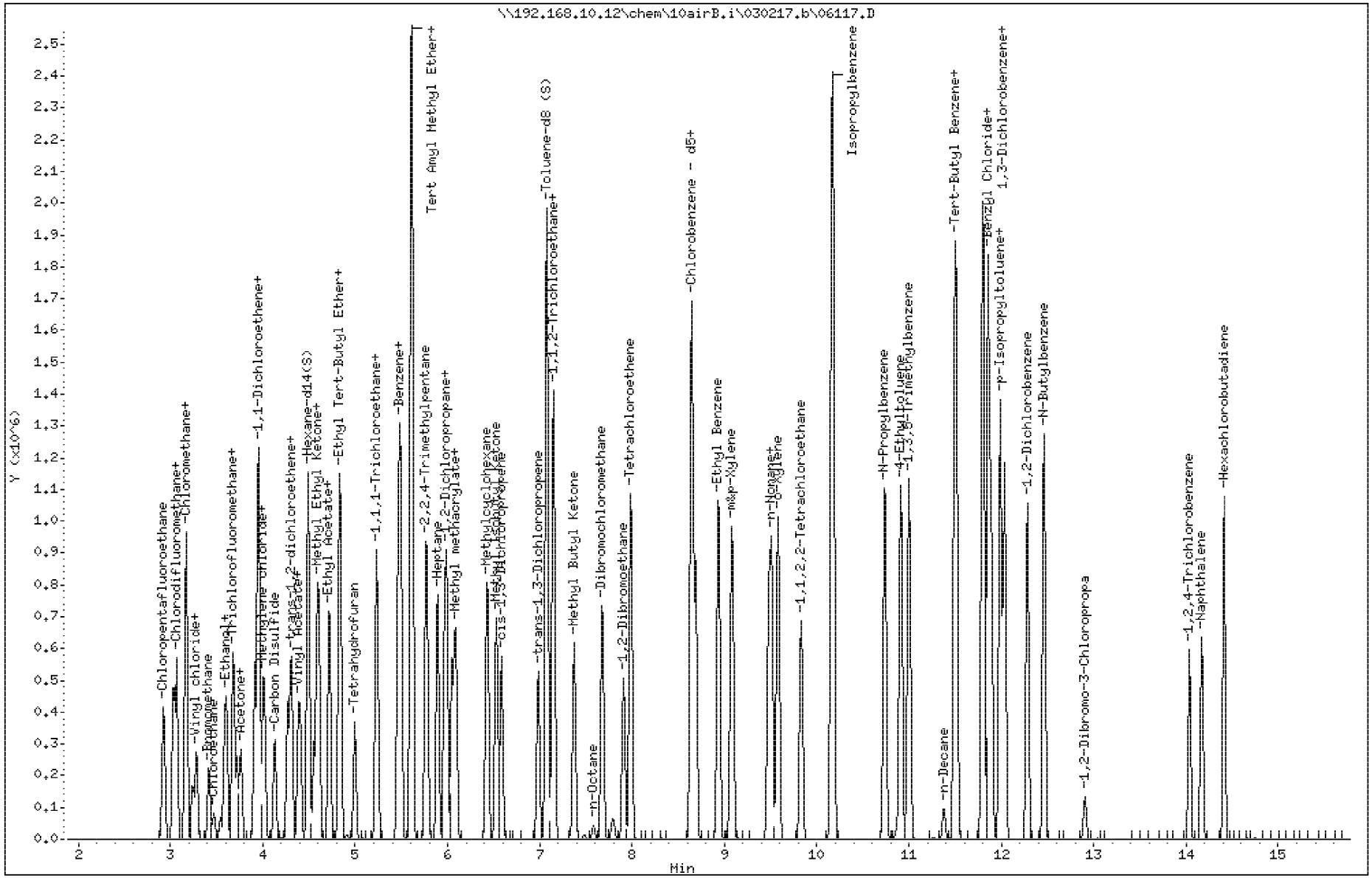
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1419261	0.36
67 Chlorobenzene - d	951026	570616	1331436	946444	-0.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

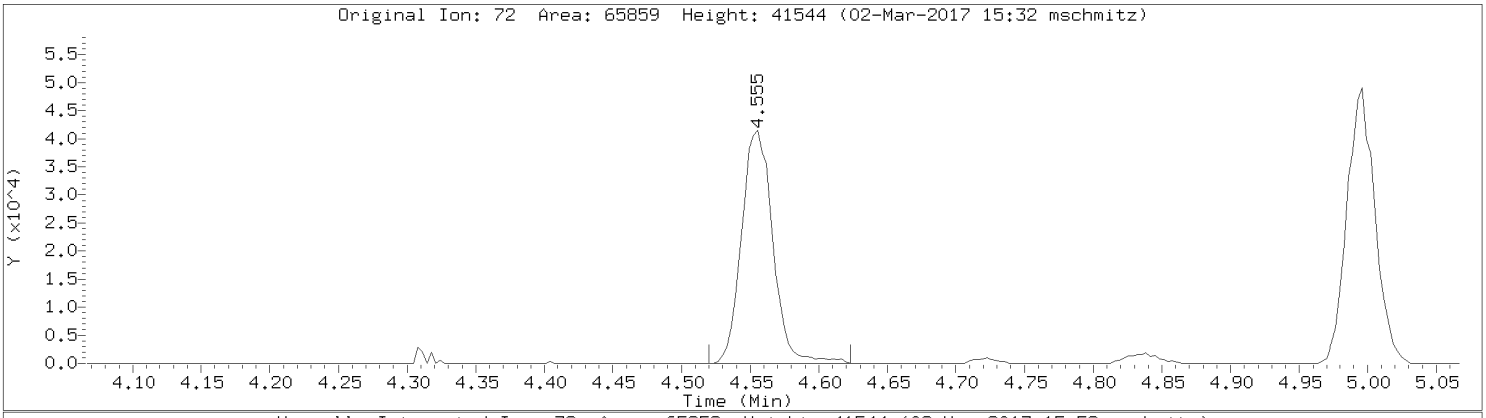
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Date : 02-MAR-2017 15:02
Client ID:
Sample Info:

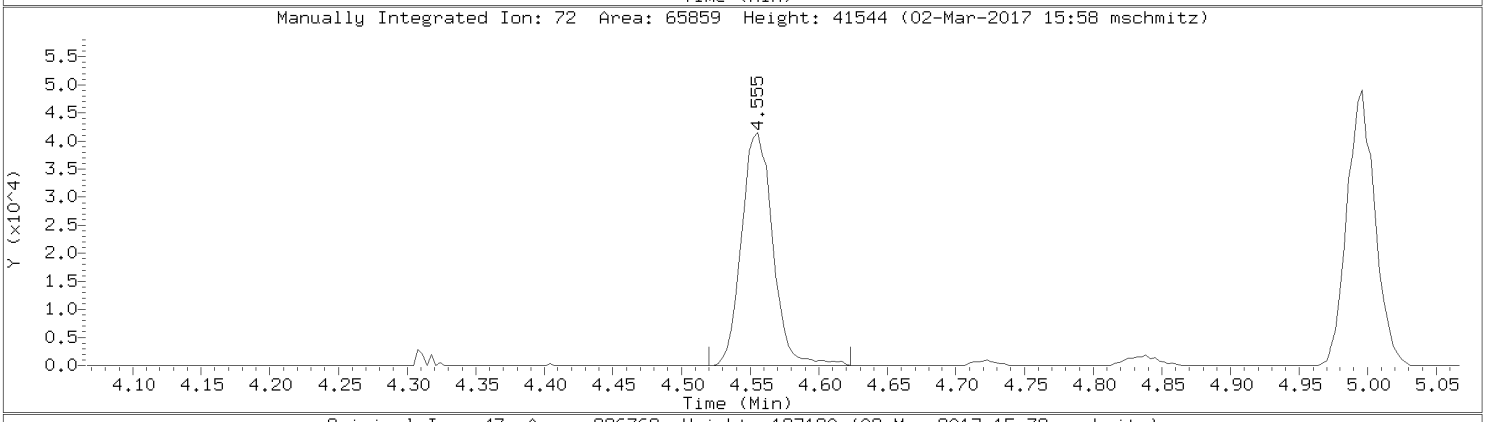
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

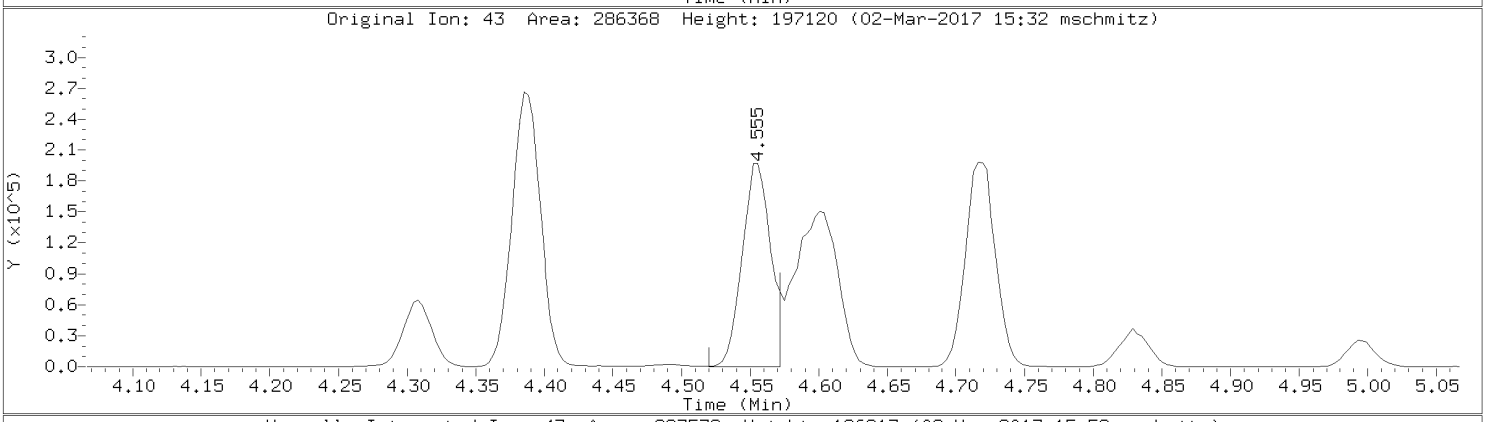


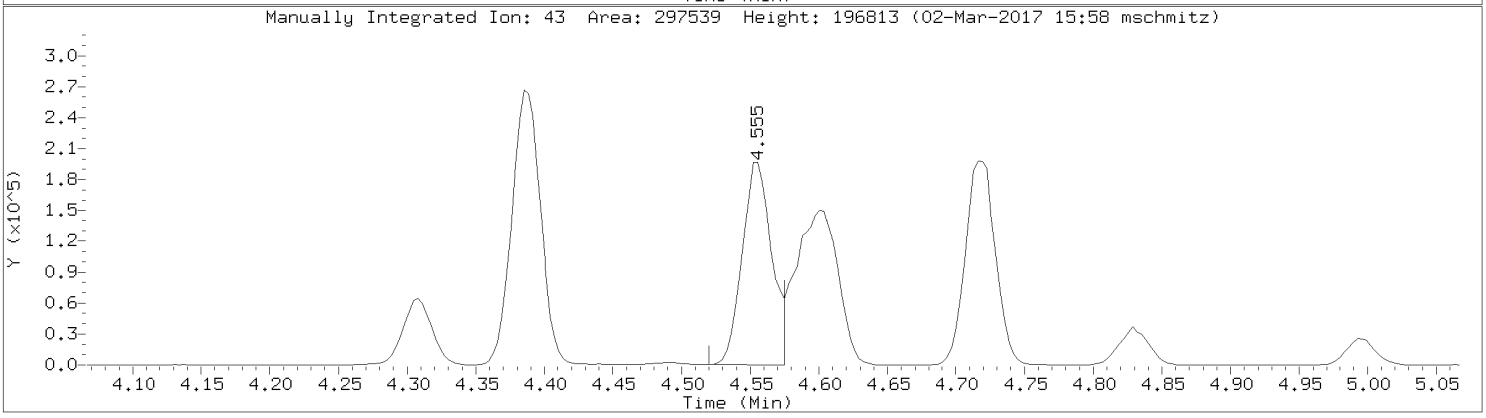
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



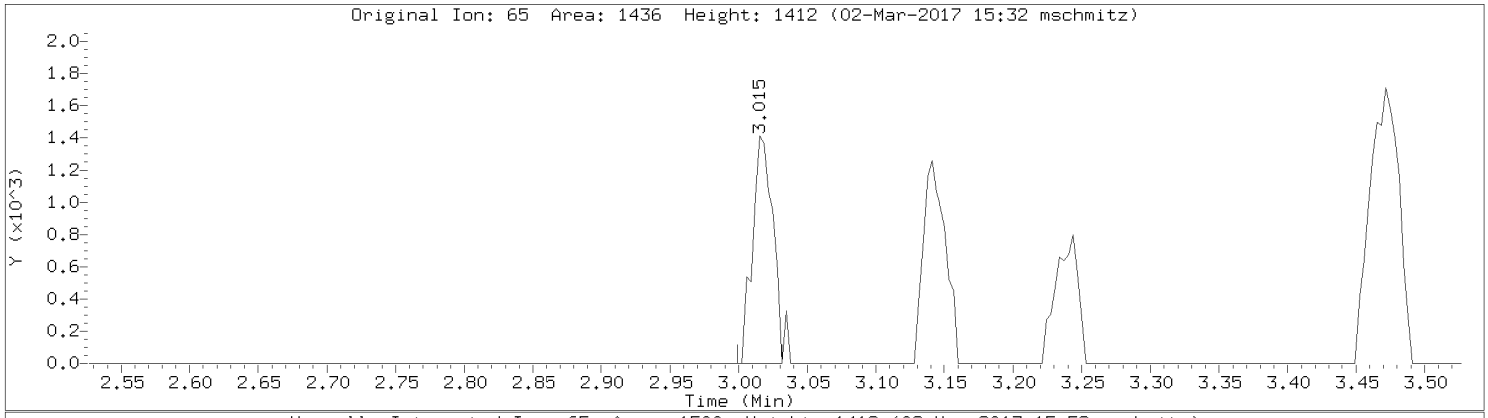


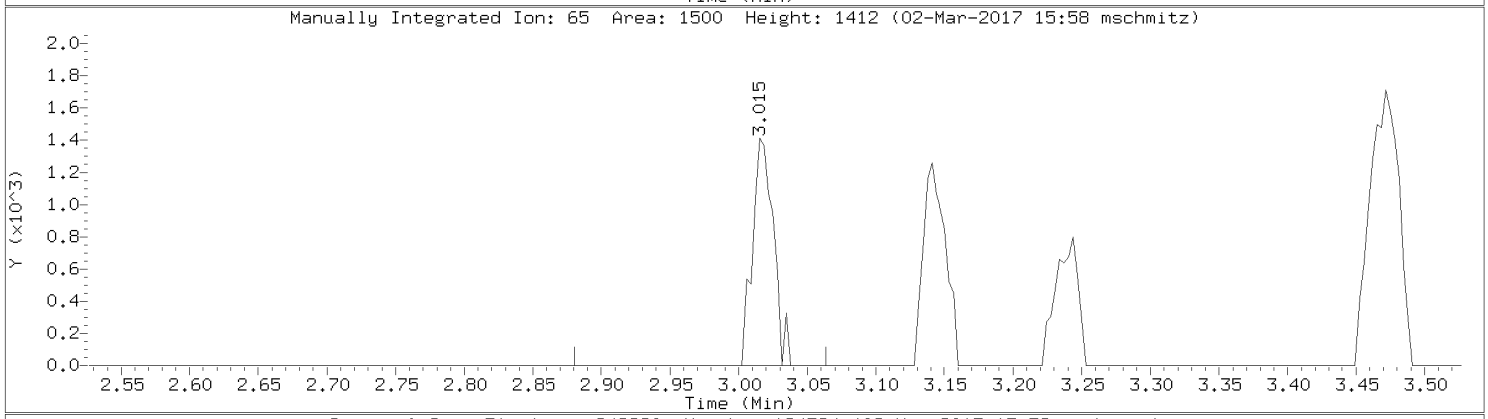


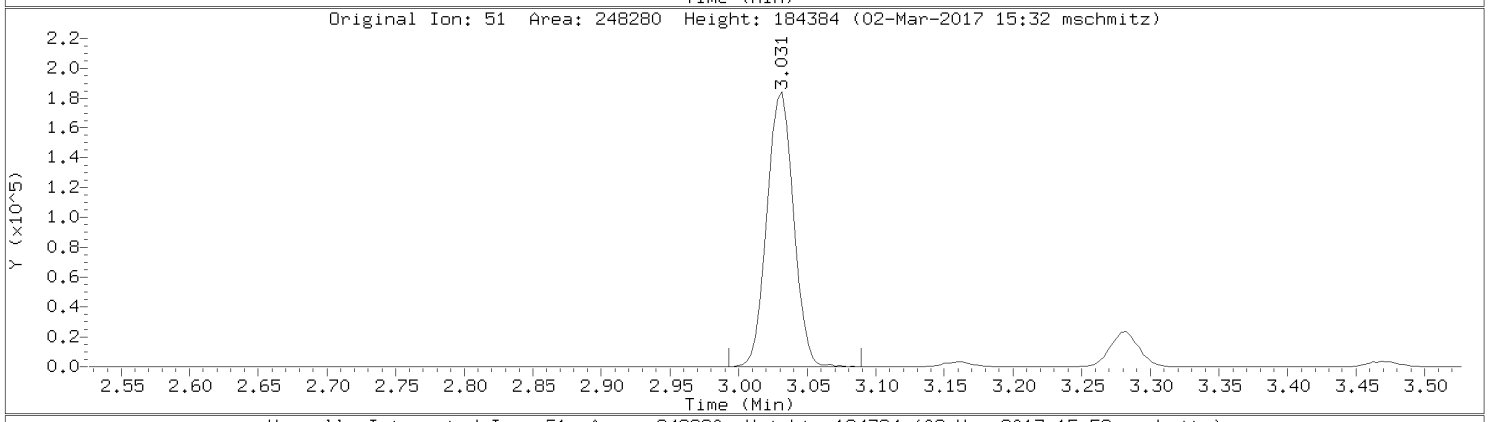


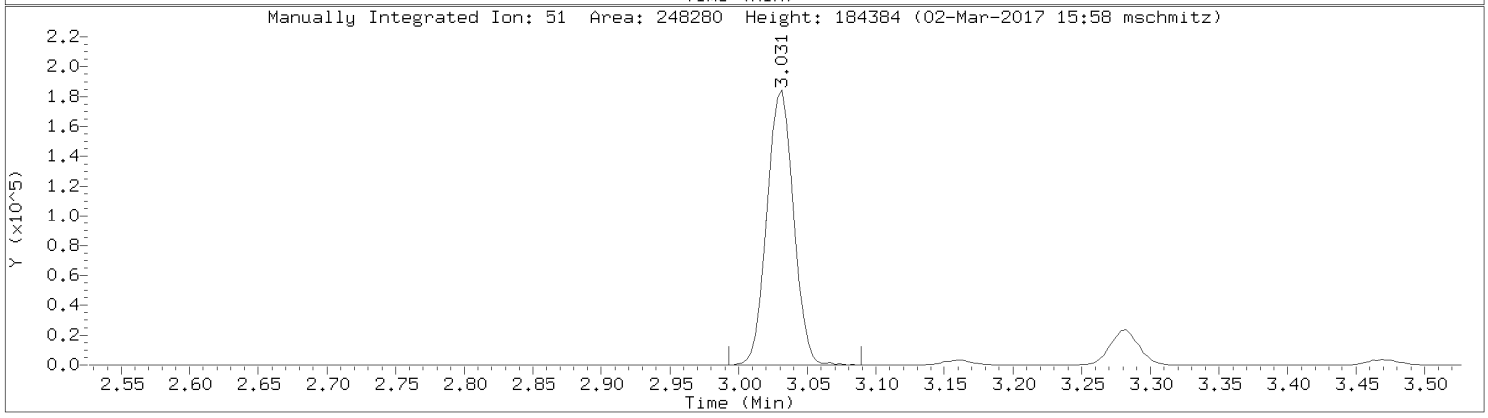
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

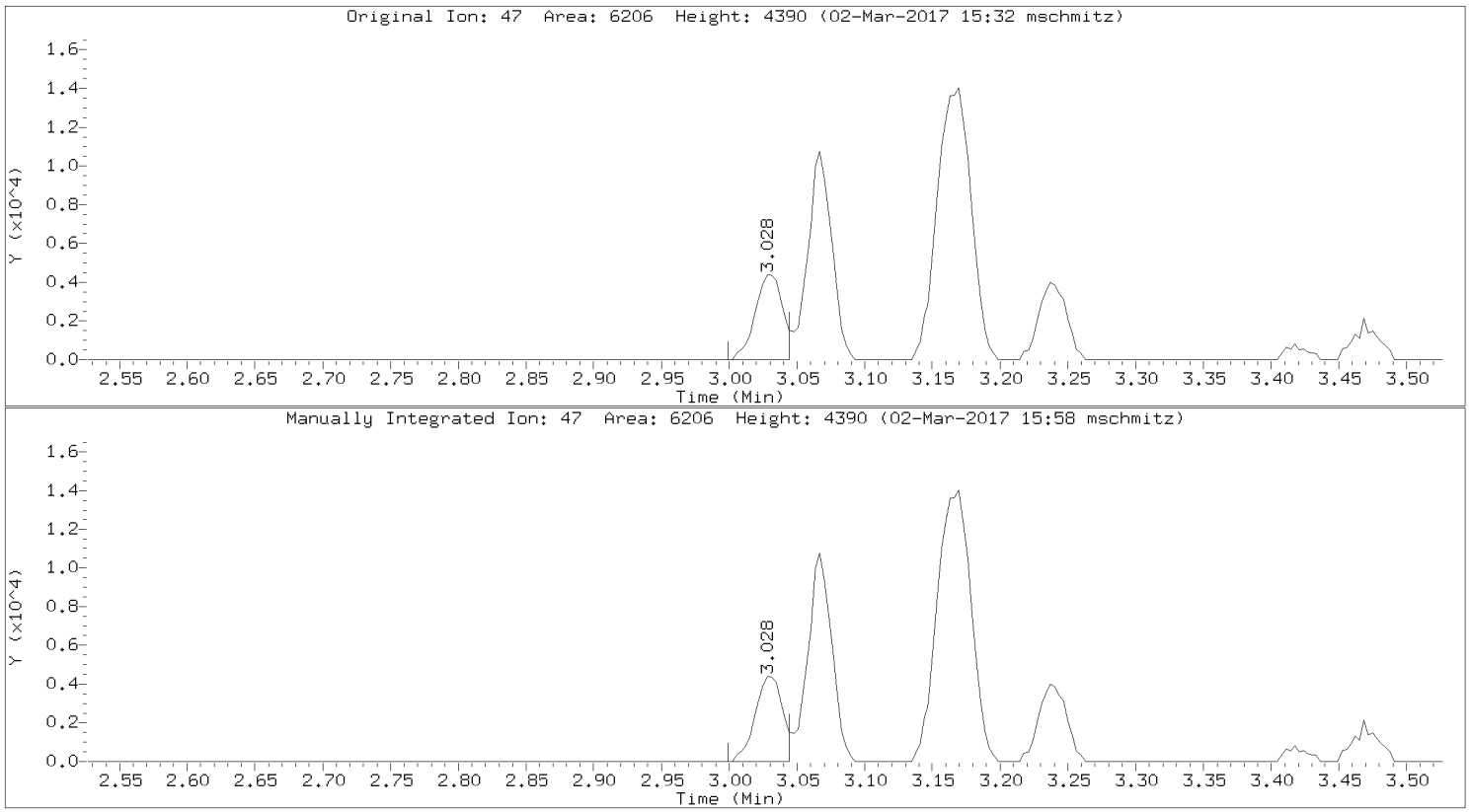






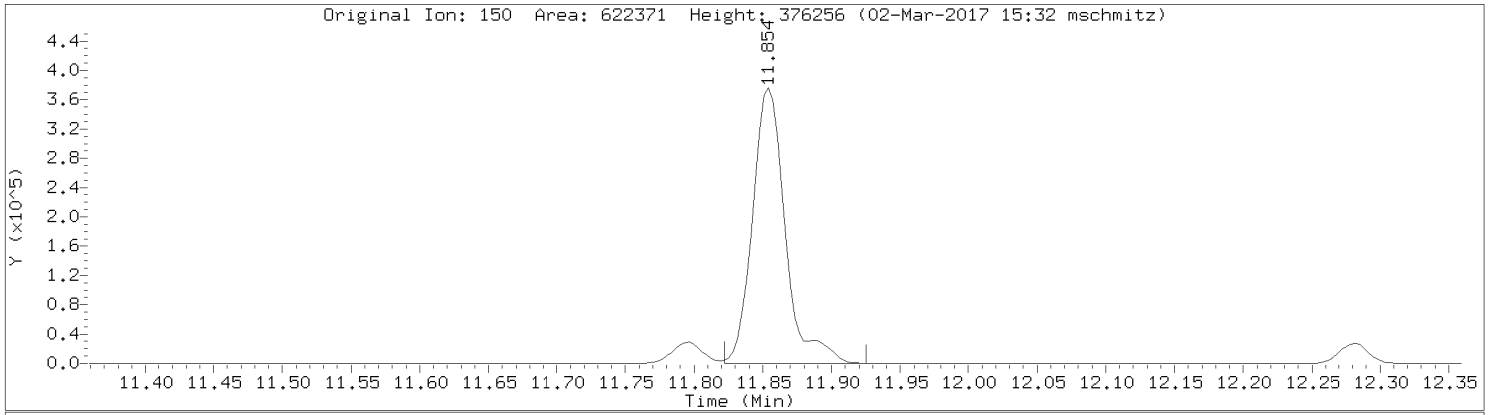


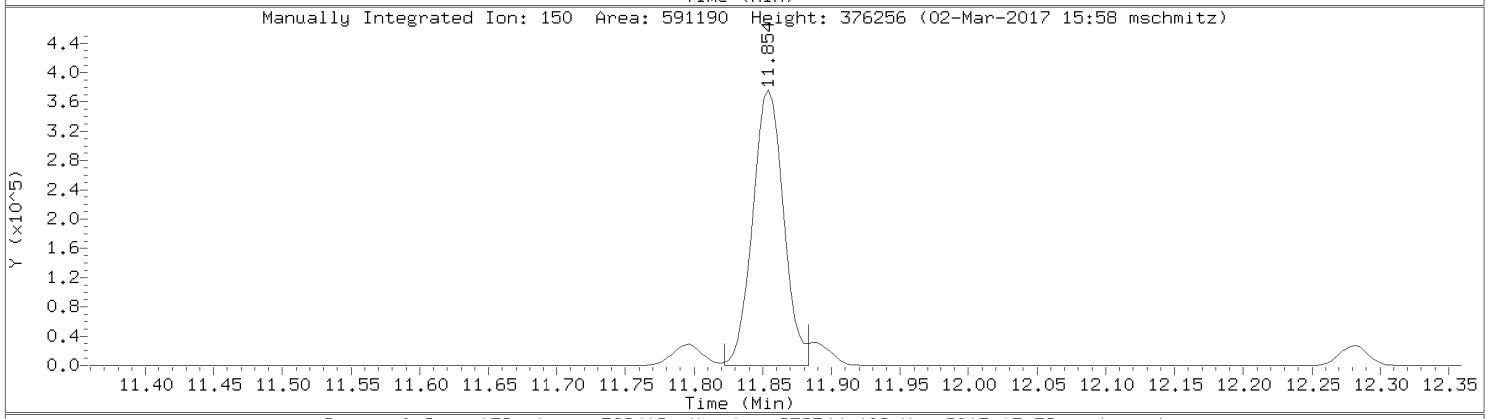
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

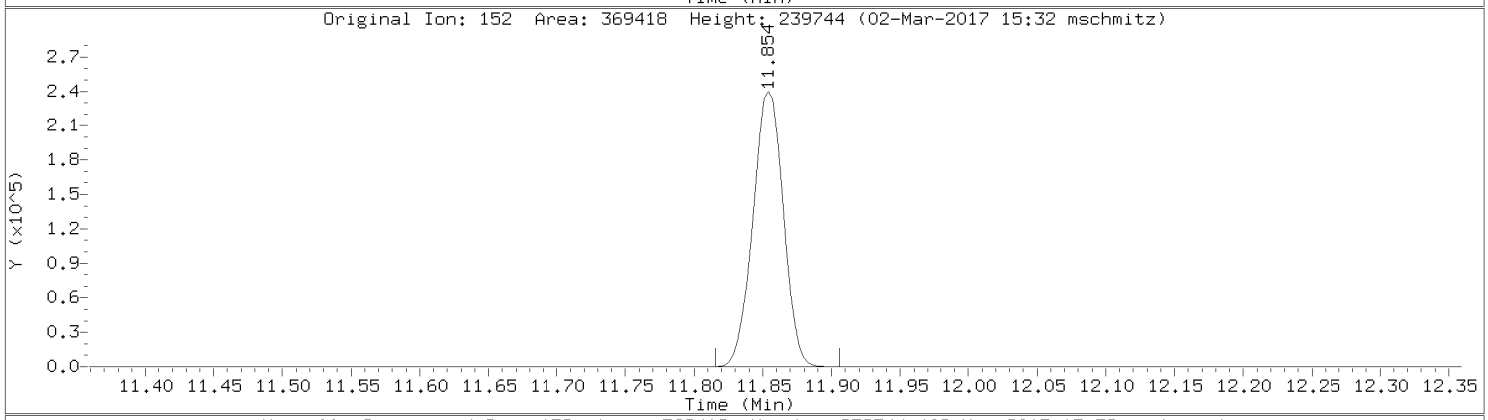


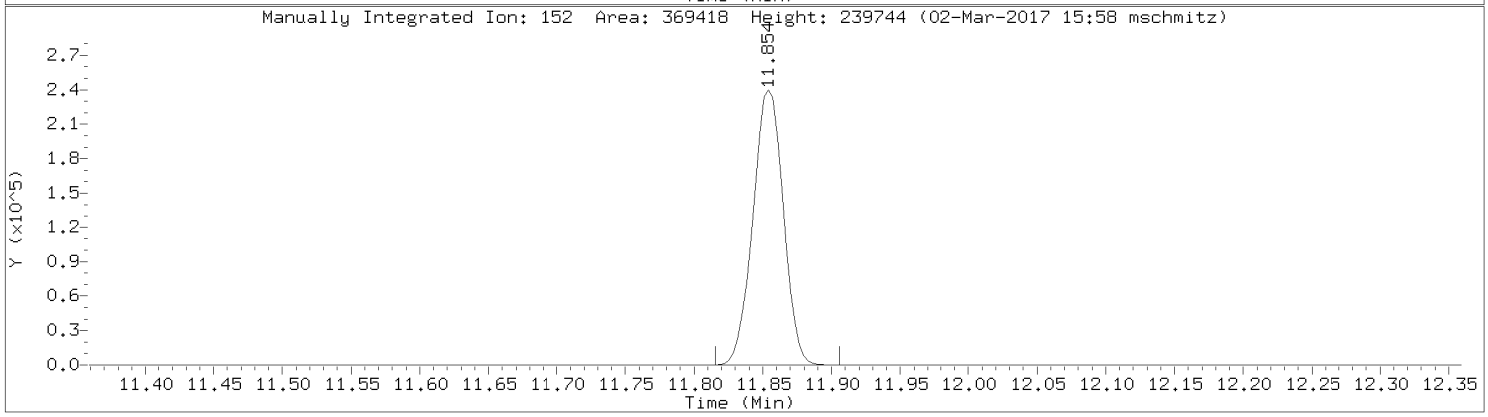
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	5.95094	0.04349	0.010	-40.49065	30.00000	Line		<-
	2 1,1-Difluoroethane	0.05863	0.05687	0.05687	0.010	-2.98870	30.00000	Aver		
	3 Chlorodifluoromethane	10.00000	9.89362	0.02780	0.010	-1.06375	30.00000	Line		
	4 Propylene	10.00000	8.79567	0.06562	0.010	-12.04329	30.00000	Line		
	5 Dichlorodifluoromethane	10.00000	9.81287	0.27885	0.010	-1.87128	30.00000	Line		
	6 Chloromethane	0.11490	0.10738	0.10738	0.010	-6.53830	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.27763	0.25581	0.25581	0.010	-7.85894	30.00000	Aver		
	8 Vinyl chloride	0.09925	0.09398	0.09398	0.010	-5.31650	30.00000	Aver		
	9 1,3-Butadiene	0.07229	0.07046	0.07046	0.010	-2.52096	30.00000	Aver		
	10 Bromomethane	0.09182	0.08632	0.08632	0.010	-5.99227	30.00000	Aver		
	11 Chloroethane	0.04564	0.04118	0.04118	0.010	-9.76728	30.00000	Aver		
	12 Ethanol	0.03674	0.03196	0.03196	0.005	-13.02125	30.00000	Aver		
	13 Vinyl Bromide	0.09511	0.08975	0.08975	0.010	-5.63138	30.00000	Aver		
	14 Isopentane	10.00000	9.68376	0.09758	0.010	-3.16239	30.00000	Line		
	15 Freon 123	10.00000	7.70672	0.08160	0.010	-22.93282	30.00000	Line		
	16 Trichlorofluoromethane	0.27416	0.25217	0.25217	0.010	-8.02013	30.00000	Aver		
	17 Acrolein	25.00000	23.50046	0.03494	0.010	-5.99815	30.00000	Quad		
	18 Acetone	0.15867	0.13573	0.13573	0.010	-14.45730	30.00000	Aver		
	19 Isopropyl Alcohol	0.16182	0.14772	0.14772	0.010	-8.71206	30.00000	Aver		
	20 1,1-Dichloroethene	0.15945	0.15154	0.15154	0.010	-4.95750	30.00000	Aver		
	21 Acrylonitrile	0.07332	0.07226	0.07226	0.010	-1.44396	30.00000	Aver		
	22 Freon 113	0.20703	0.19523	0.19523	0.010	-5.70109	30.00000	Aver		
	23 Methyl Acetate	0.24157	0.23131	0.23131	0.010	-4.24875	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.20802	0.20159	0.20159	0.010	-3.09060	30.00000	Aver		
	25 Methylene chloride	0.11199	0.10374	0.10374	0.010	-7.36392	30.00000	Aver		
	26 Allyl Chloride	25.00000	24.16612	0.03775	0.010	-3.33553	30.00000	Quad		
	27 Carbon Disulfide	0.21091	0.22369	0.22369	0.010	6.06122	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.08946	0.09296	0.09296	0.010	3.91051	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.25503	0.24398	0.24398	0.010	-4.33001	30.00000	Aver		
	30 Vinyl Acetate	10.00000	9.41597	0.25114	0.010	-5.84028	30.00000	Quad		
	31 1,1-Dichloroethane	0.17426	0.17031	0.17031	0.010	-2.26804	30.00000	Aver		
$	32 Hexane-d14(S)	0.31815	0.31358	0.31358	0.010	-1.43741	30.00000	Aver		
	33 Methyl Ethyl Ketone	10.00000	9.32700	0.04407	0.010	-6.73000	30.00000	Line		
	34 n-Hexane	0.15946	0.15440	0.15440	0.010	-3.17721	30.00000	Aver	(M)	
	35 Di-isopropyl Ether	0.30926	0.29677	0.29677	0.010	-4.03993	30.00000	Aver		
	36 Ethyl Acetate	0.20523	0.19699	0.19699	0.010	-4.01765	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.09995	0.10170	0.10170	0.010	1.74201	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.32381	0.29406	0.29406	0.010	-9.18557	30.00000	Aver		
	39 Chloroform	0.20717	0.19832	0.19832	0.010	-4.27336	30.00000	Aver		
	40 Tetrahydrofuran	0.11074	0.10312	0.10312	0.010	-6.88125	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.24372	0.24572	0.24572	0.010	0.81922	30.00000	Aver		
	42 1,2-Dichloroethane	0.18489	0.17932	0.17932	0.010	-3.01020	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	43 Benzene	0.32251	0.32110	0.32110	0.010	-0.43753	30.00000	Aver	
	44 Carbon tetrachloride	0.24358	0.26156	0.26156	0.010	7.38452	30.00000	Aver	
	45 Cyclohexane	0.16145	0.15550	0.15550	0.010	-3.68484	30.00000	Aver	
	46 Tert Amyl Methyl Ether	10.00000	9.42662	0.29744	0.010	-5.73375	30.00000	Line	
	48 2,2,4-Trimethylpentane	0.49953	0.48380	0.48380	0.010	-3.14877	30.00000	Aver	
	49 Heptane	0.18021	0.17224	0.17224	0.010	-4.41825	30.00000	Aver	
	50 1,2-Dichloropropane	0.11682	0.11251	0.11251	0.010	-3.68941	30.00000	Aver	
	51 Trichloroethene	0.16802	0.16280	0.16280	0.010	-3.10752	30.00000	Aver	
	52 Methyl methacrylate	0.10928	0.10602	0.10602	0.010	-2.98241	30.00000	Aver	
	53 1,4-Dioxane	0.07535	0.07299	0.07299	0.010	-3.12715	30.00000	Aver	
	54 Bromodichloromethane	0.23808	0.23664	0.23664	0.010	-0.60402	30.00000	Aver	
	55 Methylcyclohexane	10.00000	9.44647	0.08588	0.010	-5.53531	30.00000	Quad	
	56 Methyl Isobutyl Ketone	0.24597	0.23210	0.23210	0.010	-5.64128	30.00000	Aver	
	57 cis-1,3-Dichloropropene	10.00000	9.35091	0.18754	0.010	-6.49092	30.00000	Line	
	58 trans-1,3-Dichloropropene	10.00000	9.56218	0.17630	0.010	-4.37823	30.00000	Quad	
$	59 Toluene-d8 (S)	0.89503	0.83975	0.83975	0.010	-6.17637	30.00000	Aver	
	60 1,1,2-Trichloroethane	0.13412	0.12609	0.12609	0.010	-5.99098	30.00000	Aver	
	61 Toluene	0.40388	0.38649	0.38649	0.010	-4.30703	30.00000	Aver	
	62 Methyl Butyl Ketone	0.31584	0.33103	0.33103	0.010	4.80865	30.00000	Aver	
	63 n-Octane	0.34204	0.32826	0.32826	0.010	-4.03028	30.00000	Aver	
	64 Dibromochloromethane	10.00000	9.80152	0.38634	0.010	-1.98483	30.00000	Line	
	65 1,2-Dibromoethane	0.32276	0.33369	0.33369	0.010	3.38746	30.00000	Aver	
	66 Tetrachloroethene	0.34724	0.34451	0.34451	0.010	-0.78561	30.00000	Aver	
	68 Chlorobenzene	0.49598	0.49500	0.49500	0.010	-0.19771	30.00000	Aver	
	69 Ethyl Benzene	0.73550	0.76214	0.76214	0.010	3.62108	30.00000	Aver	
	70 m&p-Xylene	0.57729	0.59309	0.59309	0.010	2.73688	30.00000	Aver	
	71 n-Nonane	0.29775	0.34066	0.34066	0.010	14.41192	30.00000	Aver	
	72 Bromoform	10.00000	9.85964	0.37492	0.010	-1.40357	30.00000	Quad	
	73 Styrene	10.00000	9.73387	0.47575	0.010	-2.66130	30.00000	Quad	
	74 o-Xylene	0.58731	0.59877	0.59877	0.010	1.95106	30.00000	Aver	
	75 1,1,2,2-Tetrachloroethane	0.32362	0.35474	0.35474	0.010	9.61628	30.00000	Aver	
	76 Isopropylbenzene	0.83122	0.84183	0.84183	0.010	1.27728	30.00000	Aver	
	77 N-Propylbenzene	10.00000	10.16911	0.95638	0.010	1.69109	30.00000	Line	
	78 4-Ethyltoluene	10.00000	9.91522	0.84723	0.010	-0.84783	30.00000	Quad	
	79 1,3,5-Trimethylbenzene	10.00000	10.30251	0.72580	0.010	3.02509	30.00000	Line	
	80 n-Decane	10.00000	10.05606	0.25694	0.010	0.56057	30.00000	Line	
	81 Tert-Butyl Benzene	0.66403	0.74796	0.74796	0.010	12.64074	30.00000	Aver	
	82 1,2,4-Trimethylbenzene	0.59403	0.68375	0.68375	0.010	15.10319	30.00000	Aver	
	83 1,3-Dichlorobenzene	10.00000	10.46569	0.44179	0.010	4.65690	30.00000	Line	
	84 Sec- Butylbenzene	0.83200	0.95789	0.95789	0.010	15.13067	30.00000	Aver	
$	85 1,4-dichlorobenzene-d4 (S)	0.55087	0.62253	0.62253	0.010	13.00930	30.00000	Aver	(M)
	86 Benzyl Chloride	10.00000	10.09163	0.45457	0.010	0.91634	30.00000	Quad	

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.43815	0.43815	0.010	12.59229	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.32826	0.82040	0.010	3.28262	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.66671	0.66671	0.010	13.68067	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.01620	0.41117	0.010	0.16198	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.52355	0.64165	0.010	5.23555	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.30687	0.16428	0.010	3.06865	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.99354	0.16917	0.010	-0.06461	30.00000	Quad	
94 Naphthalene	10.00000	9.63840	0.38873	0.010	-3.61601	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.18326	0.18326	0.010	5.61095	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 5.60064
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Lab Smp Id: CCV
Inj Date : 05-MAR-2017 09:36
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 05-Mar-2017 09:58 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.906	2.906	(0.518)	61853	10.0000	5.95
2	1,1-Difluoroethane	65	2.979	2.979	(0.531)	80881	10.0000	9.70
3	Chlorodifluoromethane	67	2.989	2.989	(0.533)	39537	10.0000	9.89
4	Propylene	41	2.989	2.989	(0.533)	93322	10.0000	8.80
5	Dichlorodifluoromethane	85	3.021	3.021	(0.539)	396554	10.0000	9.81
6	Chloromethane	50	3.124	3.124	(0.557)	152709	10.0000	9.35
7	Dichlorotetrafluoroethane	85	3.134	3.134	(0.559)	363783	10.0000	9.21
8	Vinyl chloride	62	3.201	3.201	(0.571)	133643	10.0000	9.47
9	1,3-Butadiene	54	3.246	3.246	(0.579)	100207	10.0000	9.75
10	Bromomethane	94	3.381	3.381	(0.603)	122753	10.0000	9.40
11	Chloroethane	64	3.443	3.443	(0.614)	58565	10.0000	9.02
12	Ethanol	45	3.542	3.542	(0.631)	227246	50.0000	43.5
13	Vinyl Bromide	106	3.561	3.561	(0.635)	127636	10.0000	9.44
14	Isopentane	43	3.578	3.578	(0.638)	138770	10.0000	9.68
15	Freon 123	83	3.587	3.587	(0.639)	116046	10.0000	7.71
16	Trichlorofluoromethane	101	3.655	3.655	(0.652)	358608	10.0000	9.20
17	Acrolein	56	3.674	3.674	(0.655)	124215	25.0000	23.5
18	Acetone	43	3.713	3.713	(0.662)	965079	50.0000	42.8
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	1050352	50.0000	45.6
20	1,1-Dichloroethene	61	3.896	3.896	(0.695)	215505	10.0000	9.50
21	Acrylonitrile	53	3.925	3.925	(0.700)	256889	25.0000	24.6
22	Freon 113	101	3.934	3.934	(0.701)	277630	10.0000	9.43
23	Methyl Acetate	43	3.951	3.951	(0.704)	328938	10.0000	9.58

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.951	3.951	(0.704)	716691	25.0000	24.2
	25 Methylene chloride	49	3.992	3.992	(0.712)	737643	50.0000	46.3
	26 Allyl Chloride	76	4.005	4.005	(0.714)	134194	25.0000	24.2
	27 Carbon Disulfide	76	4.108	4.108	(0.732)	318108	10.0000	10.6
	28 trans-1,2-dichloroethene	96	4.269	4.269	(0.761)	132198	10.0000	10.4
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.767)	867421	25.0000	23.9
	30 Vinyl Acetate	43	4.385	4.385	(0.782)	357151	10.0000	9.42
	31 1,1-Dichloroethane	63	4.407	4.407	(0.786)	242193	10.0000	9.77
$	32 Hexane-d14(S)	66	4.481	4.481	(0.799)	445940	10.0000	9.86
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.811)	62672	10.0000	9.33
	34 n-Hexane	57	4.578	4.578	(0.816)	219567	10.0000	9.68(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.820)	422031	10.0000	9.60
	36 Ethyl Acetate	43	4.713	4.713	(0.840)	280134	10.0000	9.60
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	144620	10.0000	10.2
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.860)	1045459	25.0000	22.7
	39 Chloroform	83	4.838	4.838	(0.862)	282025	10.0000	9.57
	40 Tetrahydrofuran	42	4.989	4.989	(0.889)	146640	10.0000	9.31
	41 1,1,1-Trichloroethane	97	5.227	5.227	(0.932)	349436	10.0000	10.1
	42 1,2-Dichloroethane	62	5.233	5.233	(0.933)	255013	10.0000	9.70
	43 Benzene	78	5.465	5.465	(0.974)	456629	10.0000	9.96
	44 Carbon tetrachloride	117	5.484	5.484	(0.978)	371966	10.0000	10.7
	45 Cyclohexane	56	5.484	5.484	(0.978)	221130	10.0000	9.63
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.999)	422988	10.0000	9.43
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	1422092	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.767	(1.028)	1720030	25.0000	24.2
	49 Heptane	43	5.889	5.889	(1.050)	244948	10.0000	9.56
	50 1,2-Dichloropropane	63	5.963	5.963	(1.063)	160000	10.0000	9.63
	51 Trichloroethene	130	5.986	5.986	(1.067)	231513	10.0000	9.69
	52 Methyl methacrylate	69	6.040	6.040	(1.077)	150776	10.0000	9.70
	53 1,4-Dioxane	88	6.063	6.063	(1.081)	103802	10.0000	9.69
	54 Bromodichloromethane	83	6.082	6.082	(1.084)	336521	10.0000	9.94
	55 Methylcyclohexane	98	6.430	6.430	(1.146)	122127	10.0000	9.45
	56 Methyl Isobutyl Ketone	43	6.526	6.526	(1.163)	825159	25.0000	23.6
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	266697	10.0000	9.35
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	250708	10.0000	9.56
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1194198	10.0000	9.38
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	179305	10.0000	9.40
	61 Toluene	91	7.153	7.153	(1.275)	549623	10.0000	9.57
	62 Methyl Butyl Ketone	43	7.368	7.368	(0.852)	807218	25.0000	26.2
	63 n-Octane	43	7.584	7.584	(0.877)	320189	10.0000	9.60
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	376841	10.0000	9.80
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	325489	10.0000	10.3
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	336043	10.0000	9.92
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	975415	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	482830	10.0000	9.98
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	743401	10.0000	10.4
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1157009	20.0000	20.5
	71 n-Nonane	43	9.468	9.468	(1.095)	332289	10.0000	11.4
	72 Bromoform	173	9.481	9.481	(1.097)	365698	10.0000	9.86
	73 Styrene	104	9.507	9.507	(1.100)	464058	10.0000	9.73
	74 o-Xylene	91	9.581	9.581	(1.108)	584045	10.0000	10.2
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	346022	10.0000	11.0
	76 Isopropylbenzene	105	10.162	10.162	(1.176)	821136	10.0000	10.1
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	932866	10.0000	10.2

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	826397	10.0000	9.92
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	707961	10.0000	10.3
80	n-Decane	57	11.378	11.378	(2.028)	365391	10.0000	10.1
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	729576	10.0000	11.3
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	666942	10.0000	11.5
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	430925	10.0000	10.5
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	934339	10.0000	11.5
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	607225	10.0000	11.3(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	443390	10.0000	10.1
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	427376	10.0000	11.3
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	800227	10.0000	10.3
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	650323	10.0000	11.4
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	401062	10.0000	10.0
91	N-Butylbenzene	91	12.461	12.461	(1.441)	625873	10.0000	10.5
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	160243	10.0000	10.3
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.623)	165012	10.0000	9.99
94	Naphthalene	128	14.169	14.169	(1.639)	379174	10.0000	9.64
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	178756	10.0000	10.6

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06402.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

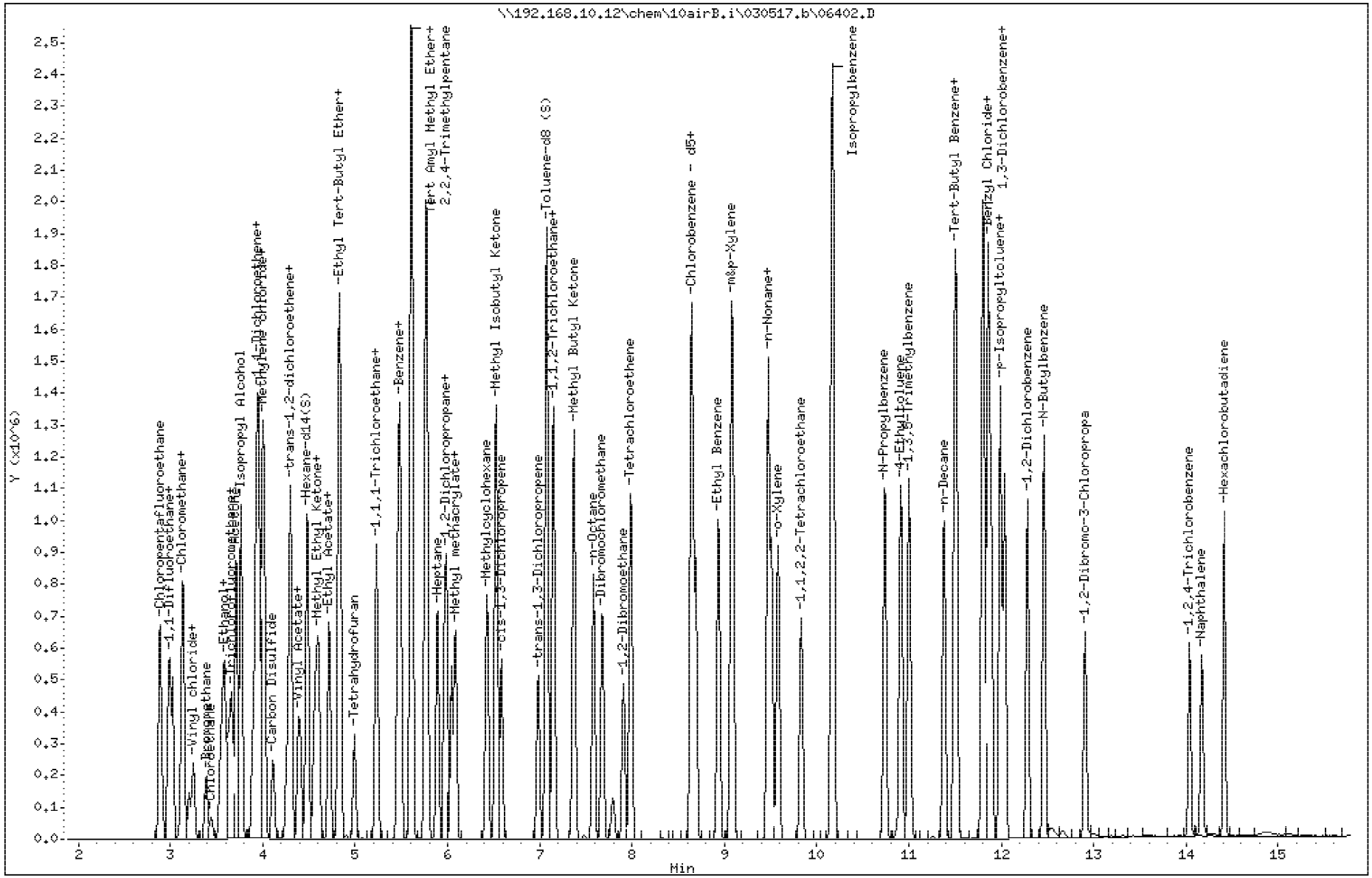
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1422092	0.56
67 Chlorobenzene - d	951026	570616	1331436	975415	2.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

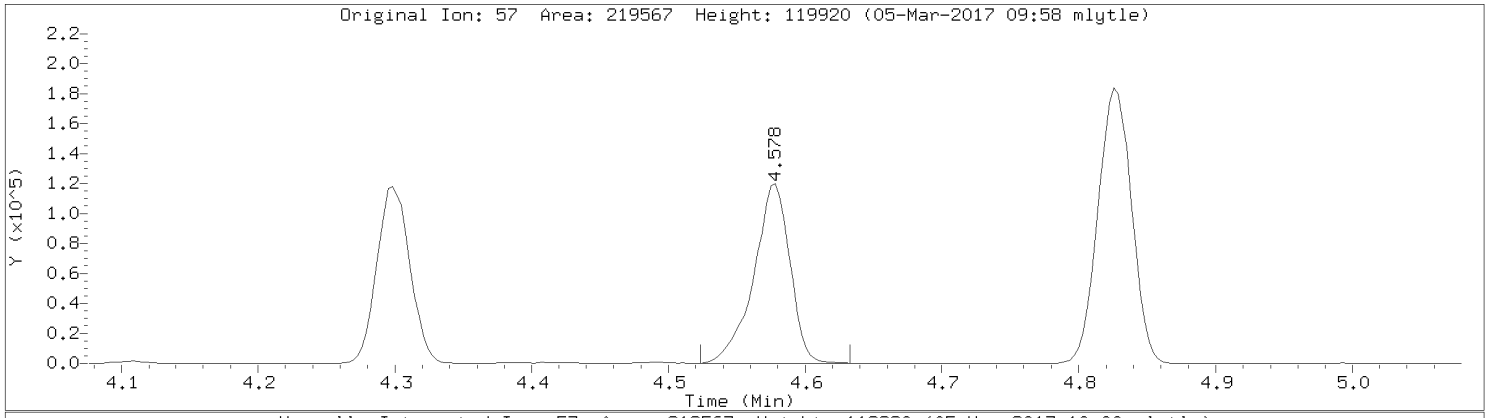
Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Date : 05-MAR-2017 09:36
Client ID:
Sample Info:

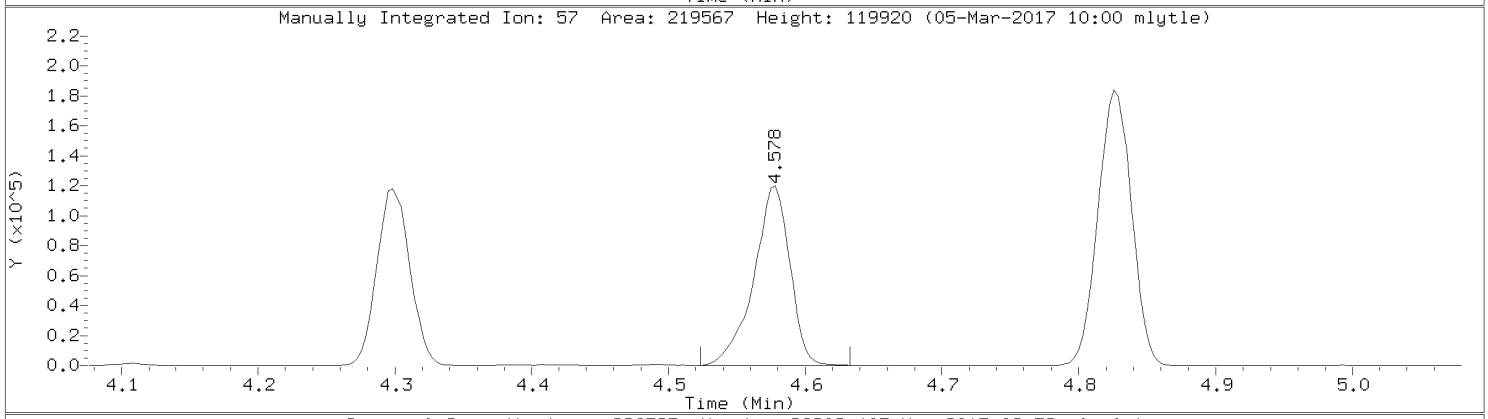
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

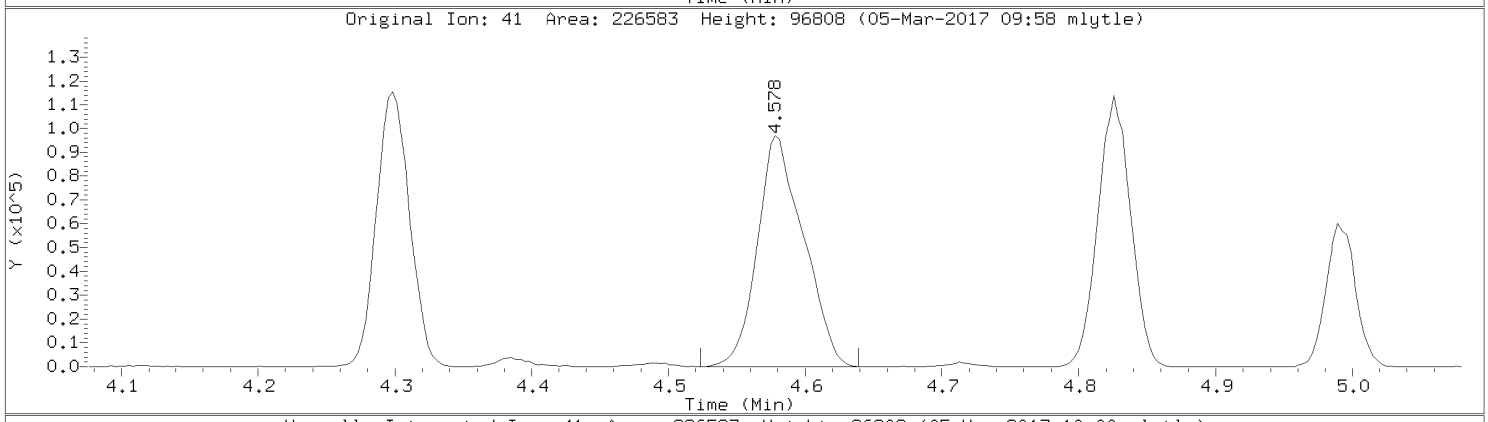


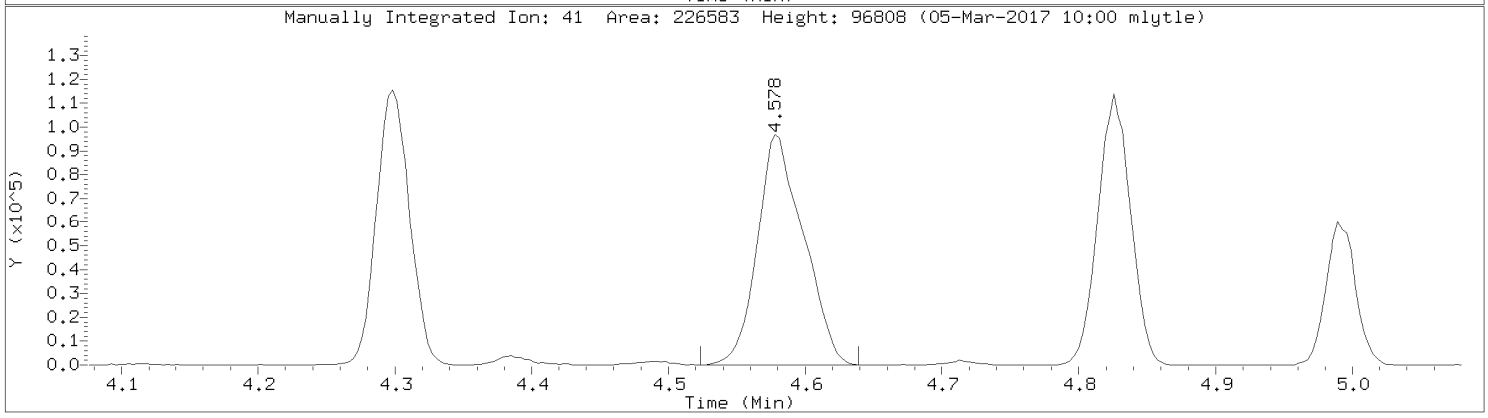
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

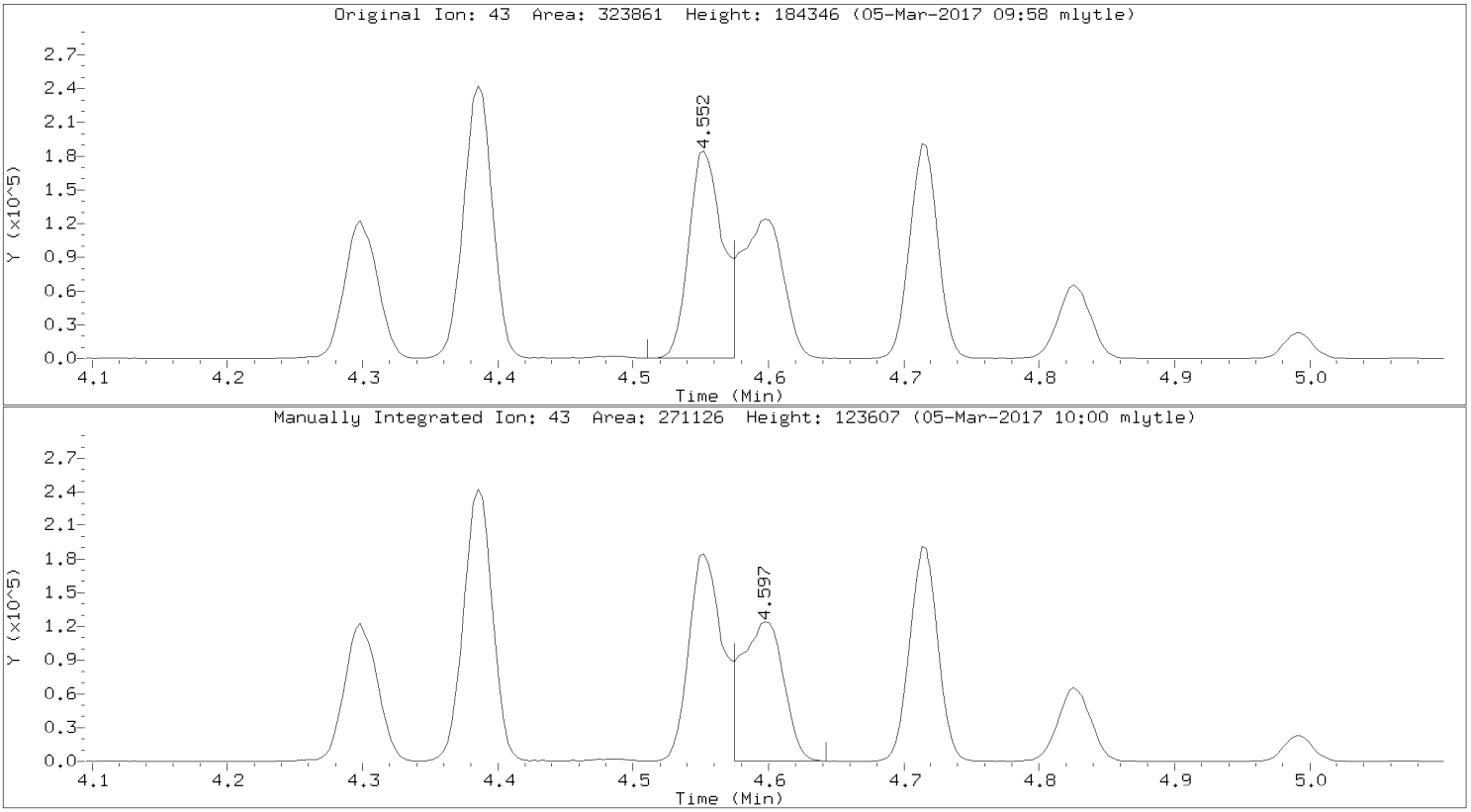






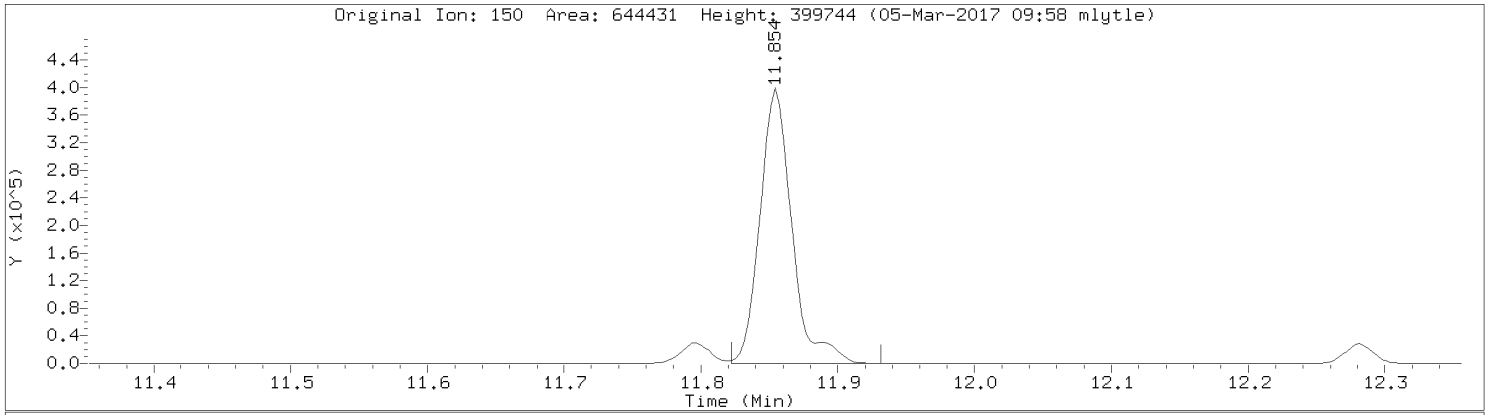


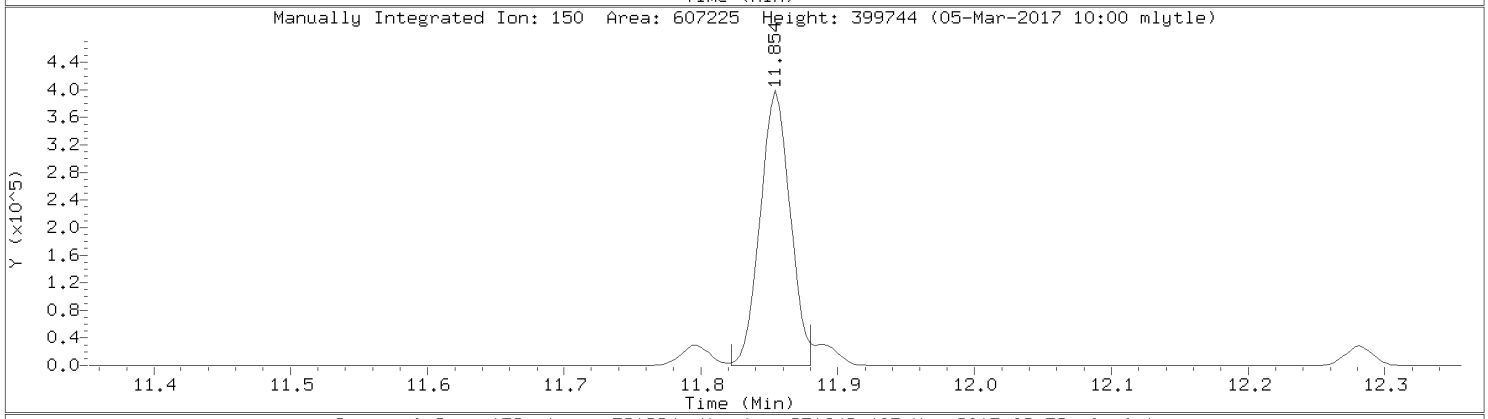
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

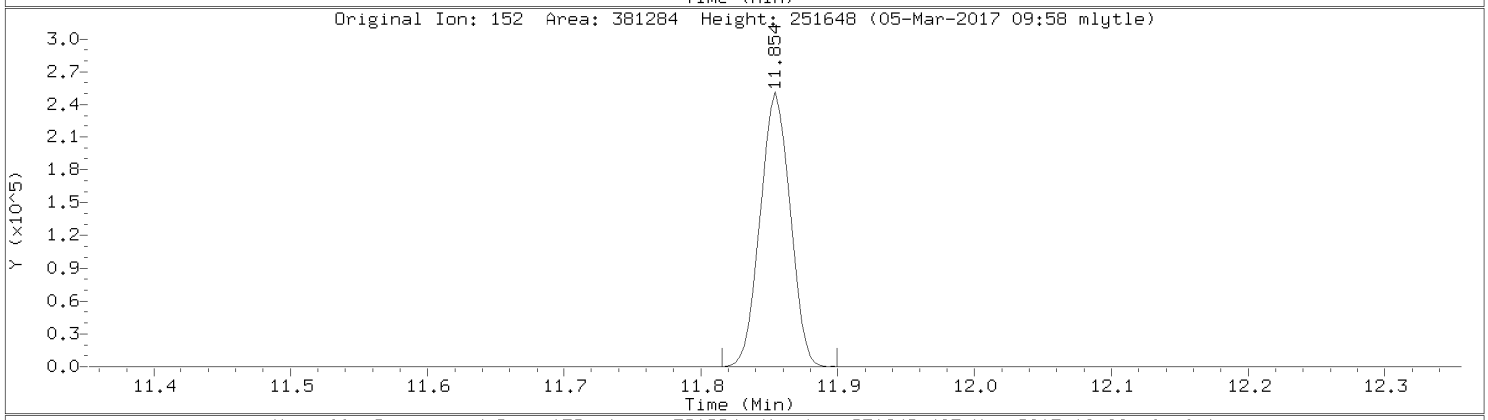


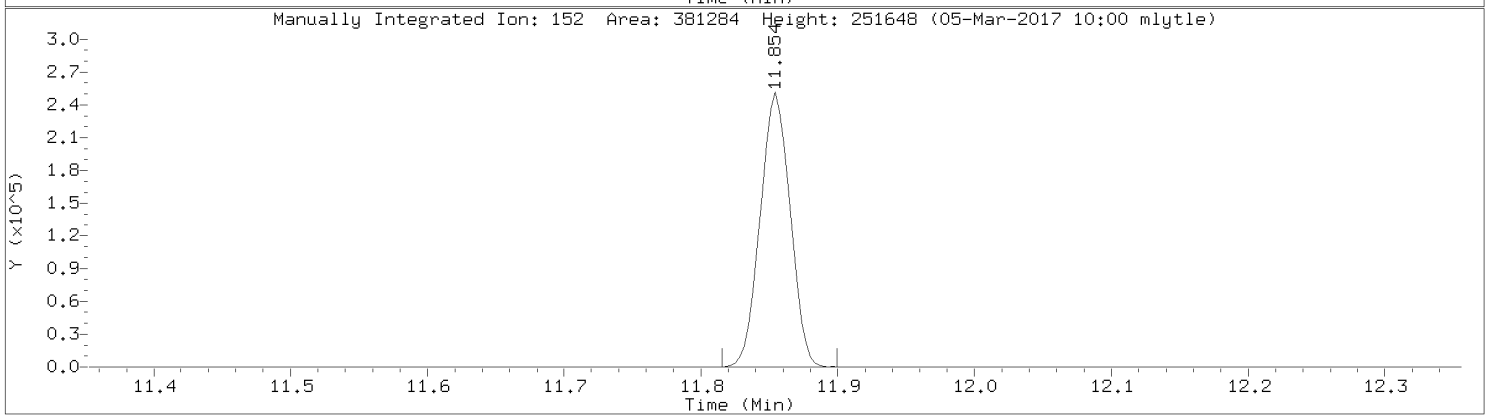
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 06-MAR-2017 09:10
Lab File ID: 06502.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	16.51054	0.12227	0.010	65.10542	30.00000	Line		<-
	2 1,1-Difluoroethane	0.05863	0.06581	0.06581	0.010	12.25310	30.00000	Aver		
	3 Chlorodifluoromethane	10.00000	10.61169	0.02981	0.010	6.11687	30.00000	Line		
	4 Propylene	10.00000	10.40042	0.07674	0.010	4.00419	30.00000	Line		
	5 Dichlorodifluoromethane	10.00000	10.57940	0.30046	0.010	5.79395	30.00000	Line	(H)	
	6 Chloromethane	0.11490	0.12179	0.12179	0.010	6.00295	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.27763	0.27956	0.27956	0.010	0.69468	30.00000	Aver		
	8 Vinyl chloride	0.09925	0.09490	0.09490	0.010	-4.38894	30.00000	Aver		
	9 1,3-Butadiene	0.07229	0.06912	0.06912	0.010	-4.37519	30.00000	Aver		
	10 Bromomethane	0.09182	0.08249	0.08249	0.010	-10.16644	30.00000	Aver		
	11 Chloroethane	0.04564	0.04027	0.04027	0.010	-11.76440	30.00000	Aver		
	12 Ethanol	0.03674	0.03244	0.03244	0.005	-11.72572	30.00000	Aver		
	13 Vinyl Bromide	0.09511	0.08680	0.08680	0.010	-8.73641	30.00000	Aver		
	14 Isopentane	10.00000	8.79145	0.08872	0.010	-12.08547	30.00000	Line		
	15 Freon 123	10.00000	7.77184	0.08228	0.010	-22.28158	30.00000	Line		
	16 Trichlorofluoromethane	0.27416	0.23264	0.23264	0.010	-15.14237	30.00000	Aver		
	17 Acrolein	25.00000	21.90301	0.03250	0.010	-12.38796	30.00000	Quad		
	18 Acetone	0.15867	0.13067	0.13067	0.010	-17.64664	30.00000	Aver		
	19 Isopropyl Alcohol	0.16182	0.14145	0.14145	0.010	-12.58739	30.00000	Aver		
	20 1,1-Dichloroethene	0.15945	0.14276	0.14276	0.010	-10.46330	30.00000	Aver		
	21 Acrylonitrile	0.07332	0.06916	0.06916	0.010	-5.67205	30.00000	Aver		
	22 Freon 113	0.20703	0.17845	0.17845	0.010	-13.80452	30.00000	Aver		
	23 Methyl Acetate	0.24157	0.21242	0.21242	0.010	-12.06598	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.20802	0.18518	0.18518	0.010	-10.97603	30.00000	Aver	(M)	
	25 Methylene chloride	0.11199	0.09634	0.09634	0.010	-13.96971	30.00000	Aver		
	26 Allyl Chloride	25.00000	21.58852	0.03381	0.010	-13.64592	30.00000	Quad		
	27 Carbon Disulfide	0.21091	0.20654	0.20654	0.010	-2.06871	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.08946	0.08424	0.08424	0.010	-5.83861	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.25503	0.22486	0.22486	0.010	-11.82867	30.00000	Aver		
	30 Vinyl Acetate	10.00000	8.96231	0.23879	0.010	-10.37691	30.00000	Quad		
	31 1,1-Dichloroethane	0.17426	0.15697	0.15697	0.010	-9.91949	30.00000	Aver		
$	32 Hexane-d14(S)	0.31815	0.27653	0.27653	0.010	-13.08213	30.00000	Aver		
	33 Methyl Ethyl Ketone	10.00000	8.67778	0.04098	0.010	-13.22222	30.00000	Line		
	34 n-Hexane	0.15946	0.14548	0.14548	0.010	-8.76675	30.00000	Aver		
	35 Di-isopropyl Ether	0.30926	0.28257	0.28257	0.010	-8.63201	30.00000	Aver		
	36 Ethyl Acetate	0.20523	0.19106	0.19106	0.010	-6.90491	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.09995	0.09358	0.09358	0.010	-6.37820	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.32381	0.34625	0.34625	0.010	6.93074	30.00000	Aver		
	39 Chloroform	0.20717	0.22228	0.22228	0.010	7.29470	30.00000	Aver		
	40 Tetrahydrofuran	0.11074	0.11567	0.11567	0.010	4.45755	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.24372	0.24592	0.24592	0.010	0.90213	30.00000	Aver		
	42 1,2-Dichloroethane	0.18489	0.18760	0.18760	0.010	1.46455	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 06-MAR-2017 09:10
Lab File ID: 06502.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	43 Benzene	0.32251	0.34806	0.34806	0.010	7.92447	30.00000	Aver	
	44 Carbon tetrachloride	0.24358	0.25623	0.25623	0.010	5.19665	30.00000	Aver	
	45 Cyclohexane	0.16145	0.16910	0.16910	0.010	4.73912	30.00000	Aver	
	46 Tert Amyl Methyl Ether	10.00000	10.03153	0.31591	0.010	0.31530	30.00000	Line	
	48 2,2,4-Trimethylpentane	0.49953	0.53069	0.53069	0.010	6.23847	30.00000	Aver	
	49 Heptane	0.18021	0.19638	0.19638	0.010	8.97424	30.00000	Aver	
	50 1,2-Dichloropropane	0.11682	0.12534	0.12534	0.010	7.29711	30.00000	Aver	
	51 Trichloroethene	0.16802	0.17879	0.17879	0.010	6.41307	30.00000	Aver	
	52 Methyl methacrylate	0.10928	0.12181	0.12181	0.010	11.46572	30.00000	Aver	
	53 1,4-Dioxane	0.07535	0.08290	0.08290	0.010	10.02209	30.00000	Aver	
	54 Bromodichloromethane	0.23808	0.25808	0.25808	0.010	8.40282	30.00000	Aver	
	55 Methylcyclohexane	10.00000	10.75739	0.09816	0.010	7.57391	30.00000	Quad	
	56 Methyl Isobutyl Ketone	0.24597	0.26881	0.26881	0.010	9.28586	30.00000	Aver	
	57 cis-1,3-Dichloropropene	10.00000	10.14894	0.20371	0.010	1.48935	30.00000	Line	
	58 trans-1,3-Dichloropropene	10.00000	10.33206	0.19094	0.010	3.32057	30.00000	Quad	
$	59 Toluene-d8 (S)	0.89503	0.88859	0.88859	0.010	-0.71907	30.00000	Aver	
	60 1,1,2-Trichloroethane	0.13412	0.14014	0.14014	0.010	4.49074	30.00000	Aver	
	61 Toluene	0.40388	0.42806	0.42806	0.010	5.98624	30.00000	Aver	
	62 Methyl Butyl Ketone	0.31584	0.37361	0.37361	0.010	18.29183	30.00000	Aver	
	63 n-Octane	0.34204	0.37988	0.37988	0.010	11.06184	30.00000	Aver	
	64 Dibromochloromethane	10.00000	10.30856	0.40642	0.010	3.08561	30.00000	Line	
	65 1,2-Dibromoethane	0.32276	0.35712	0.35712	0.010	10.64613	30.00000	Aver	
	66 Tetrachloroethene	0.34724	0.35968	0.35968	0.010	3.58101	30.00000	Aver	
	68 Chlorobenzene	0.49598	0.53036	0.53036	0.010	6.93245	30.00000	Aver	
	69 Ethyl Benzene	0.73550	0.81774	0.81774	0.010	11.18110	30.00000	Aver	
	70 m&p-Xylene	0.57729	0.62980	0.62980	0.010	9.09650	30.00000	Aver	
	71 n-Nonane	0.29775	0.37074	0.37074	0.010	24.51219	30.00000	Aver	
	72 Bromoform	10.00000	10.22450	0.38829	0.010	2.24497	30.00000	Quad	
	73 Styrene	10.00000	10.34952	0.50478	0.010	3.49518	30.00000	Quad	
	74 o-Xylene	0.58731	0.64455	0.64455	0.010	9.74700	30.00000	Aver	
	75 1,1,2,2-Tetrachloroethane	0.32362	0.38596	0.38596	0.010	19.26274	30.00000	Aver	
	76 Isopropylbenzene	0.83122	0.89098	0.89098	0.010	7.18949	30.00000	Aver	
	77 N-Propylbenzene	10.00000	10.89973	1.02526	0.010	8.99727	30.00000	Line	
	78 4-Ethyltoluene	10.00000	10.65820	0.90876	0.010	6.58202	30.00000	Quad	
	79 1,3,5-Trimethylbenzene	10.00000	10.97175	0.77304	0.010	9.71751	30.00000	Line	
	80 n-Decane	10.00000	11.00198	0.28169	0.010	10.01977	30.00000	Line	
	81 Tert-Butyl Benzene	0.66403	0.78223	0.78223	0.010	17.80076	30.00000	Aver	
	82 1,2,4-Trimethylbenzene	0.59403	0.71618	0.71618	0.010	20.56264	30.00000	Aver	
	83 1,3-Dichlorobenzene	10.00000	10.94777	0.46212	0.010	9.47774	30.00000	Line	
	84 Sec- Butylbenzene	0.83200	1.00722	1.00722	0.010	21.06006	30.00000	Aver	
$	85 1,4-dichlorobenzene-d4 (S)	0.55087	0.65545	0.65545	0.010	18.98538	30.00000	Aver	
	86 Benzyl Chloride	10.00000	9.45567	0.42505	0.010	-5.44332	30.00000	Quad	

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 06-MAR-2017 09:10
Lab File ID: 06502.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.46202	0.46202	0.010	18.72655	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.82927	0.86018	0.010	8.29272	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.69830	0.69830	0.010	19.06568	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.41035	0.42696	0.010	4.10348	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.92571	0.66612	0.010	9.25715	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.64252	0.16974	0.010	6.42517	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	10.84794	0.18493	0.010	8.47943	30.00000	Quad	
94 Naphthalene	10.00000	10.72337	0.43409	0.010	7.23373	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.19849	0.19849	0.010	14.38582	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 9.85725
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Lab Smp Id: ccv
Inj Date : 06-MAR-2017 09:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 06-Mar-2017 09:26 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.950	2.950	(0.526)	164639	10.0000	16.5
2	1,1-Difluoroethane	65	3.021	3.021	(0.538)	88616	10.0000	11.2
3	Chlorodifluoromethane	67	3.031	3.031	(0.540)	40142	10.0000	10.6
4	Propylene	41	3.034	3.034	(0.541)	103331	10.0000	10.4
5	Dichlorodifluoromethane	85	3.066	3.066	(0.546)	404580	10.0000	10.6(H)
6	Chloromethane	50	3.163	3.163	(0.564)	163998	10.0000	10.6
7	Dichlorotetrafluoroethane	85	3.169	3.169	(0.565)	376431	10.0000	10.1
8	Vinyl chloride	62	3.237	3.237	(0.577)	127782	10.0000	9.56
9	1,3-Butadiene	54	3.278	3.278	(0.584)	93078	10.0000	9.56
10	Bromomethane	94	3.417	3.417	(0.609)	111070	10.0000	8.98
11	Chloroethane	64	3.468	3.468	(0.618)	54226	10.0000	8.82
12	Ethanol	45	3.545	3.545	(0.632)	218377	50.0000	44.1
13	Vinyl Bromide	106	3.587	3.587	(0.639)	116878	10.0000	9.13
14	Isopentane	43	3.603	3.603	(0.642)	119459	10.0000	8.79
15	Freon 123	83	3.606	3.606	(0.643)	110799	10.0000	7.77
16	Trichlorofluoromethane	101	3.677	3.677	(0.655)	313262	10.0000	8.49
17	Acrolein	56	3.684	3.684	(0.656)	109422	25.0000	21.9
18	Acetone	43	3.722	3.722	(0.663)	879733	50.0000	41.2
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	952325	50.0000	43.7
20	1,1-Dichloroethene	61	3.912	3.912	(0.697)	192234	10.0000	8.95
21	Acrylonitrile	53	3.928	3.928	(0.700)	232805	25.0000	23.6
22	Freon 113	101	3.954	3.954	(0.704)	240289	10.0000	8.62
23	Methyl Acetate	43	3.960	3.960	(0.706)	286033	10.0000	8.79

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.704)	623394	25.0000	22.3(M)
	25 Methylene chloride	49	4.008	4.008	(0.714)	648645	50.0000	43.0
	26 Allyl Chloride	76	4.021	4.021	(0.716)	113806	25.0000	21.6
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	278118	10.0000	9.79
	28 trans-1,2-dichloroethene	96	4.278	4.278	(0.762)	113430	10.0000	9.42
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	756957	25.0000	22.0
	30 Vinyl Acetate	43	4.391	4.391	(0.782)	321535	10.0000	8.96
	31 1,1-Dichloroethane	63	4.413	4.413	(0.786)	211371	10.0000	9.01
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	372360	10.0000	8.69
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	55179	10.0000	8.68
	34 n-Hexane	57	4.587	4.587	(0.817)	195899	10.0000	9.12
	35 Di-isopropyl Ether	45	4.603	4.603	(0.820)	380485	10.0000	9.14
	36 Ethyl Acetate	43	4.719	4.719	(0.841)	257271	10.0000	9.31
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	126007	10.0000	9.36
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	1165586	25.0000	26.7
	39 Chloroform	83	4.841	4.841	(0.863)	299311	10.0000	10.7
	40 Tetrahydrofuran	42	4.995	4.995	(0.890)	155756	10.0000	10.4
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	331142	10.0000	10.1
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	252604	10.0000	10.1
	43 Benzene	78	5.468	5.468	(0.974)	468681	10.0000	10.8
	44 Carbon tetrachloride	117	5.484	5.484	(0.977)	345027	10.0000	10.5
	45 Cyclohexane	56	5.491	5.491	(0.978)	227694	10.0000	10.5
	46 Tert Amyl Methyl Ether	73	5.606	5.606	(0.999)	425389	10.0000	10.0
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1346534	10.0000	
	48 2,2,4-Trimethylpentane	57	5.774	5.774	(1.029)	1786497	25.0000	26.6
	49 Heptane	43	5.892	5.892	(1.050)	264431	10.0000	10.9
	50 1,2-Dichloropropane	63	5.966	5.966	(1.063)	168781	10.0000	10.7
	51 Trichloroethene	130	5.989	5.989	(1.067)	240752	10.0000	10.6
	52 Methyl methacrylate	69	6.047	6.047	(1.077)	164026	10.0000	11.1
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	111628	10.0000	11.0
	54 Bromodichloromethane	83	6.085	6.085	(1.084)	347515	10.0000	10.8
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	132179	10.0000	10.8
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	904918	25.0000	27.3
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	274299	10.0000	10.1
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	257113	10.0000	10.3
$	59 Toluene-d8 (S)	98	7.079	7.079	(1.261)	1196519	10.0000	9.93
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	188708	10.0000	10.4
	61 Toluene	91	7.153	7.153	(1.274)	576400	10.0000	10.6
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	858838	25.0000	29.6
	63 n-Octane	43	7.584	7.584	(0.877)	349301	10.0000	11.1
	64 Dibromochloromethane	129	7.680	7.680	(0.888)	373700	10.0000	10.3
	65 1,2-Dibromoethane	107	7.908	7.908	(0.915)	328373	10.0000	11.1
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	330722	10.0000	10.4
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	919501	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	487670	10.0000	10.7
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	751915	10.0000	11.1
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1158201	20.0000	21.8
	71 n-Nonane	43	9.471	9.471	(1.096)	340894	10.0000	12.5
	72 Bromoform	173	9.481	9.481	(1.097)	357033	10.0000	10.2
	73 Styrene	104	9.506	9.506	(1.100)	464144	10.0000	10.3
	74 o-Xylene	91	9.580	9.580	(1.108)	592666	10.0000	11.0
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	354892	10.0000	11.9
	76 Isopropylbenzene	105	10.162	10.162	(1.176)	819253	10.0000	10.7
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	942732	10.0000	10.9

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.263)	835610	10.0000	10.7
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	710808	10.0000	11.0
80	n-Decane	57	11.381	11.381	(2.028)	379307	10.0000	11.0
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	719260	10.0000	11.8
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	658531	10.0000	12.1
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	424917	10.0000	10.9
84	Sec- Butylbenzene	105	11.809	11.809	(1.366)	926141	10.0000	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	602687	10.0000	11.9
86	Benzyl Chloride	91	11.867	11.867	(1.373)	390831	10.0000	9.46
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	424827	10.0000	11.9
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	790934	10.0000	10.8
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	642084	10.0000	11.9
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	392589	10.0000	10.4
91	N-Butylbenzene	91	12.461	12.461	(1.441)	612494	10.0000	10.9
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	156072	10.0000	10.6
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.623)	170039	10.0000	10.8
94	Naphthalene	128	14.165	14.165	(1.639)	399149	10.0000	10.7
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	182510	10.0000	11.4

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06502.D
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info:

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

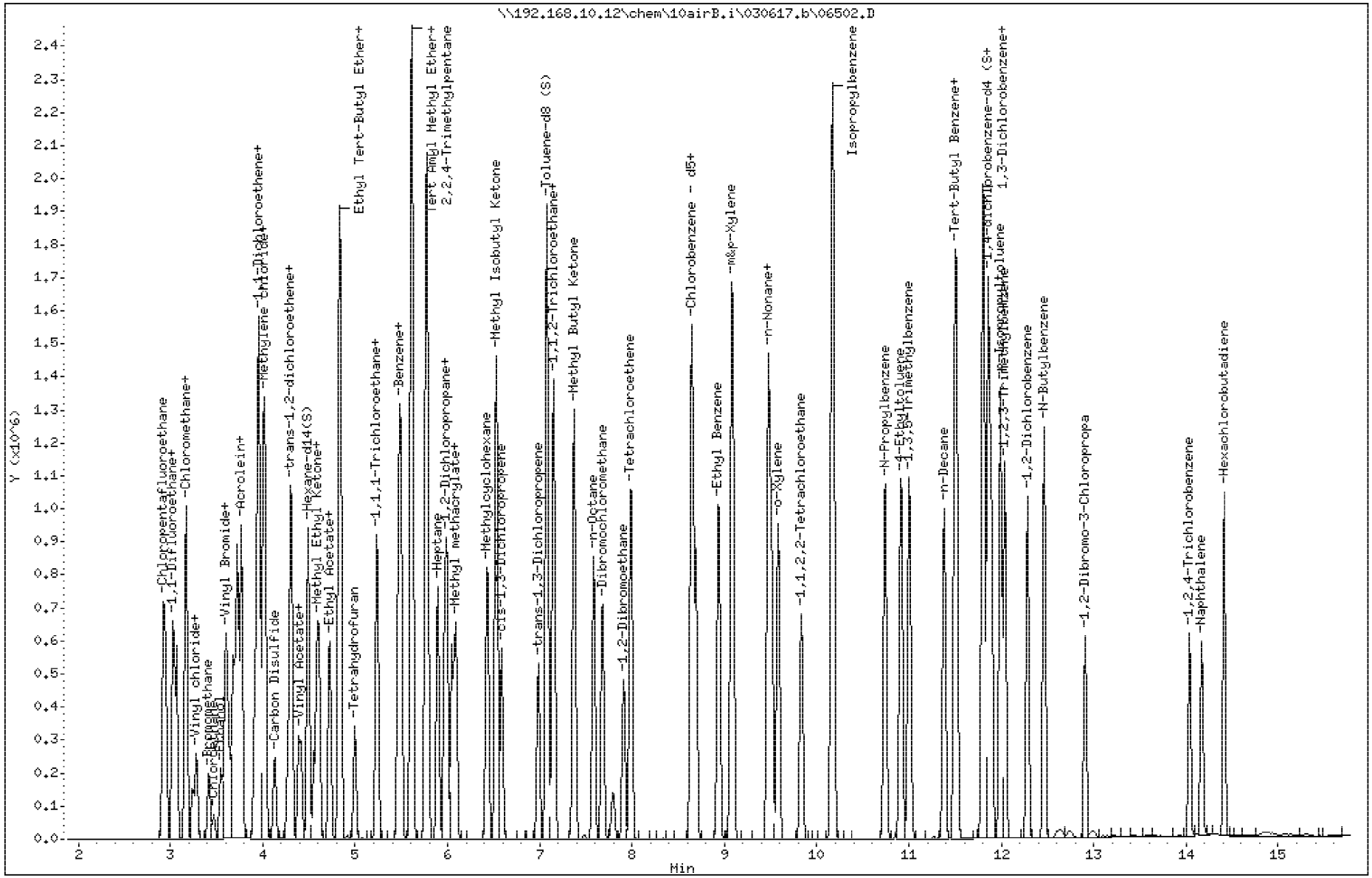
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1346534	-4.78
67 Chlorobenzene - d	951026	570616	1331436	919501	-3.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

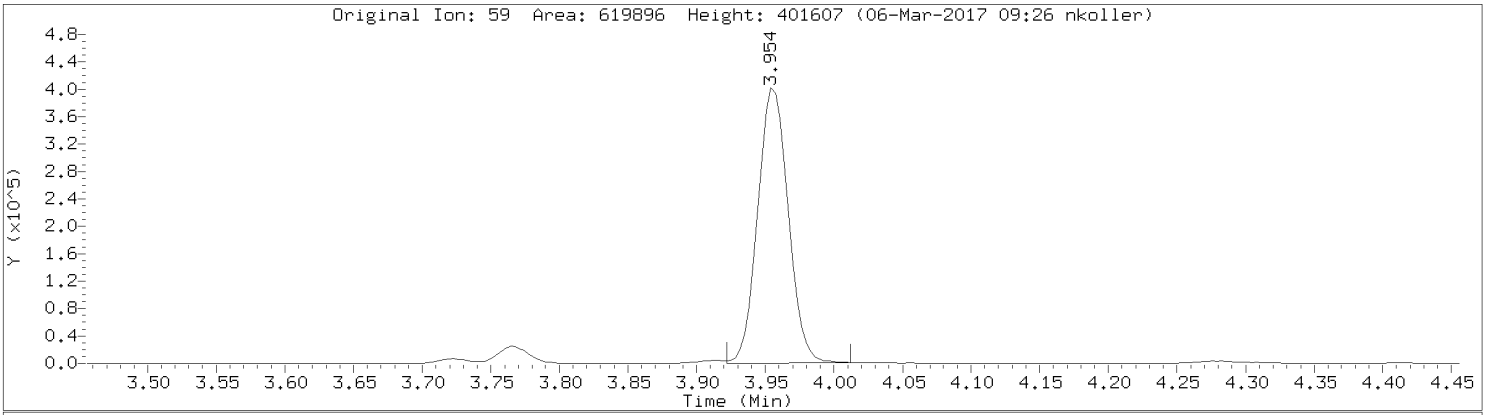
Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Date : 06-MAR-2017 09:10
Client ID:
Sample Info:

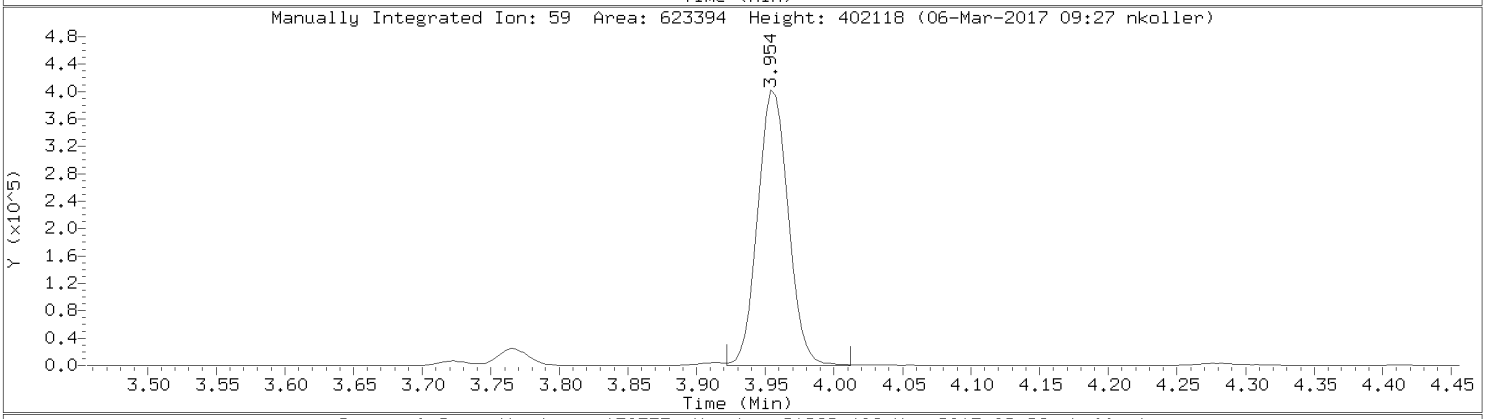
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

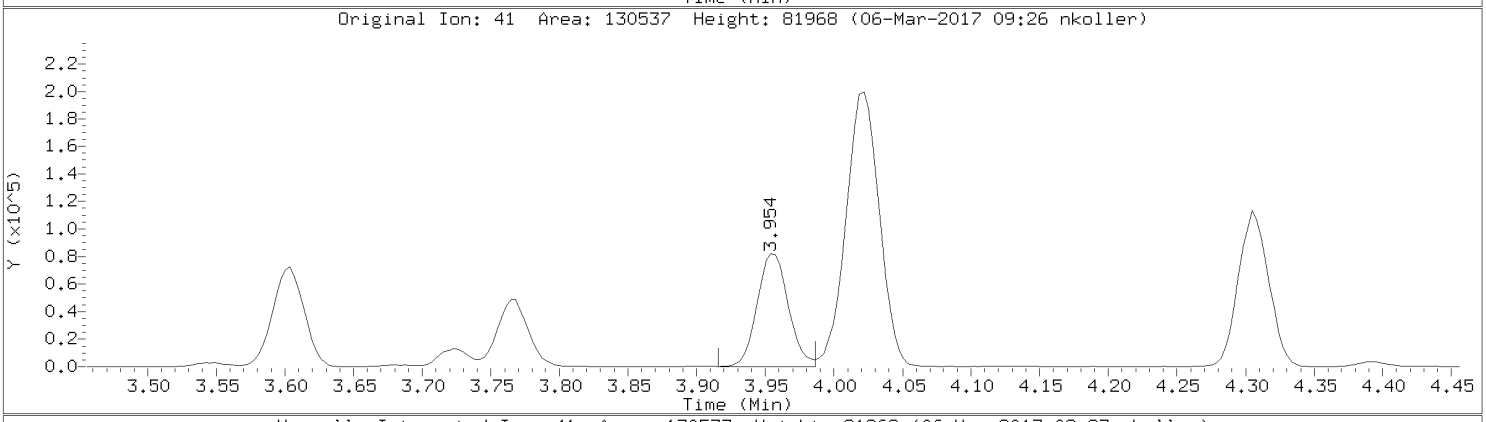


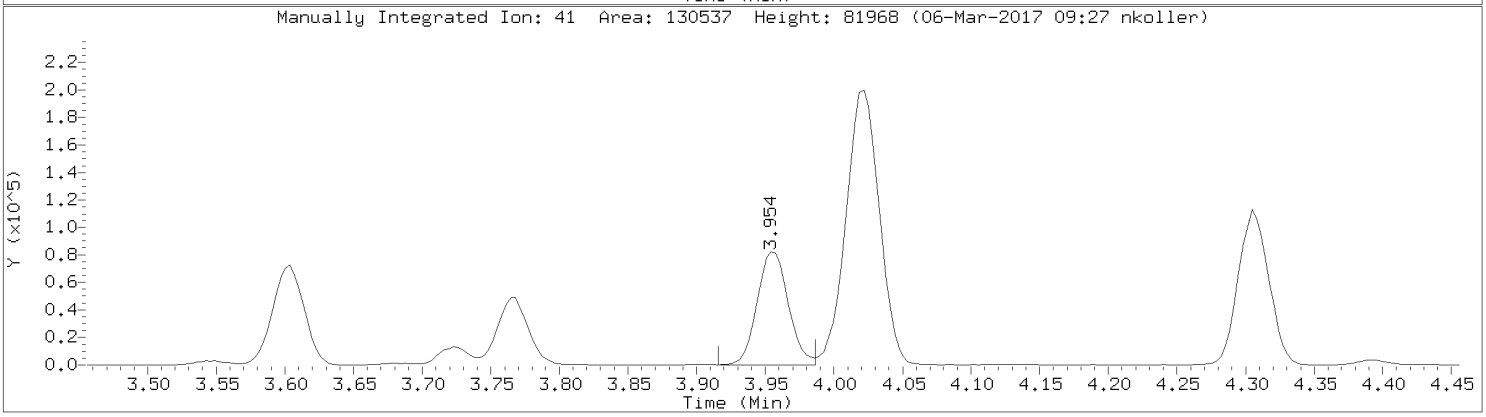
Data File: \\192.168.10.12\chem\10airB.i\030617.b/06502.D
Injection Date: 06-MAR-2017 09:10
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0









Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 07-MAR-2017 08:58
Lab File ID: 06602.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
1	Chloropentafluoroethane	10.00000	10.67860	0.07876	0.010	6.78595	30.00000	Line	
2	1,1-Difluoroethane	0.05863	0.06146	0.06146	0.010	4.83756	30.00000	Aver	
3	Chlorodifluoromethane	10.00000	10.59274	0.02976	0.010	5.92741	30.00000	Line	
4	Propylene	10.00000	9.28511	0.06901	0.010	-7.14889	30.00000	Line	(H)
5	Dichlorodifluoromethane	10.00000	10.76280	0.30563	0.010	7.62799	30.00000	Line	(H)
6	Chloromethane	0.11490	0.11517	0.11517	0.010	0.23760	30.00000	Aver	
7	Dichlorotetrafluoroethane	0.27763	0.28652	0.28652	0.010	3.20226	30.00000	Aver	
8	Vinyl chloride	0.09925	0.09962	0.09962	0.010	0.36824	30.00000	Aver	
9	1,3-Butadiene	0.07229	0.07138	0.07138	0.010	-1.25809	30.00000	Aver	
10	Bromomethane	0.09182	0.08970	0.08970	0.010	-2.31165	30.00000	Aver	
11	Chloroethane	0.04564	0.04220	0.04220	0.010	-7.54282	30.00000	Aver	
12	Ethanol	0.03674	0.03492	0.03492	0.005	-4.96401	30.00000	Aver	
13	Vinyl Bromide	0.09511	0.09373	0.09373	0.010	-1.45035	30.00000	Aver	
14	Isopentane	10.00000	9.30323	0.09380	0.010	-6.96765	30.00000	Line	
15	Freon 123	10.00000	8.93867	0.09451	0.010	-10.61327	30.00000	Line	
16	Trichlorofluoromethane	0.27416	0.26387	0.26387	0.010	-3.75136	30.00000	Aver	
17	Acrolein	25.00000	23.22045	0.03451	0.010	-7.11818	30.00000	Quad	
18	Acetone	0.15867	0.13778	0.13778	0.010	-13.16364	30.00000	Aver	
19	Isopropyl Alcohol	0.16182	0.15644	0.15644	0.010	-3.32425	30.00000	Aver	
20	1,1-Dichloroethene	0.15945	0.15337	0.15337	0.010	-3.81029	30.00000	Aver	
21	Acrylonitrile	0.07332	0.07200	0.07200	0.010	-1.79915	30.00000	Aver	
22	Freon 113	0.20703	0.20434	0.20434	0.010	-1.29904	30.00000	Aver	
23	Methyl Acetate	0.24157	0.23391	0.23391	0.010	-3.17159	30.00000	Aver	
24	Tert Butyl Alcohol (TBA)	0.20802	0.21355	0.21355	0.010	2.66011	30.00000	Aver	
25	Methylene chloride	0.11199	0.10135	0.10135	0.010	-9.50259	30.00000	Aver	
26	Allyl Chloride	25.00000	24.68226	0.03853	0.010	-1.27097	30.00000	Quad	
27	Carbon Disulfide	0.21091	0.22883	0.22883	0.010	8.50026	30.00000	Aver	
28	trans-1,2-dichloroethene	0.08946	0.09414	0.09414	0.010	5.22751	30.00000	Aver	
29	Methyl Tert Butyl Ether	0.25503	0.25914	0.25914	0.010	1.61453	30.00000	Aver	
30	Vinyl Acetate	10.00000	9.53133	0.25429	0.010	-4.68669	30.00000	Quad	
31	1,1-Dichloroethane	0.17426	0.16969	0.16969	0.010	-2.62429	30.00000	Aver	
$ 32	Hexane-d14(S)	0.31815	0.28475	0.28475	0.010	-10.49978	30.00000	Aver	
33	Methyl Ethyl Ketone	10.00000	9.64336	0.04558	0.010	-3.56636	30.00000	Line	
34	n-Hexane	0.15946	0.15464	0.15464	0.010	-3.02383	30.00000	Aver	(M)
35	Di-isopropyl Ether	0.30926	0.29847	0.29847	0.010	-3.48895	30.00000	Aver	
36	Ethyl Acetate	0.20523	0.19909	0.19909	0.010	-2.99080	30.00000	Aver	
37	cis-1,2-Dichloroethene	0.09995	0.10449	0.10449	0.010	4.53911	30.00000	Aver	
38	Ethyl Tert-Butyl Ether	0.32381	0.30663	0.30663	0.010	-5.30380	30.00000	Aver	
39	Chloroform	0.20717	0.19240	0.19240	0.010	-7.12739	30.00000	Aver	
40	Tetrahydrofuran	0.11074	0.11099	0.11099	0.010	0.22572	30.00000	Aver	
41	1,1,1-Trichloroethane	0.24372	0.26105	0.26105	0.010	7.10859	30.00000	Aver	
42	1,2-Dichloroethane	0.18489	0.18893	0.18893	0.010	2.18725	30.00000	Aver	

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 07-MAR-2017 08:58
Lab File ID: 06602.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m

			CCAL	MIN		MAX	CURVE	QC
COMPOUND	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	TYPE	FLAGS
43 Benzene	0.32251	0.33989	0.33989	0.010	5.39103	30.00000	Aver	
44 Carbon tetrachloride	0.24358	0.27721	0.27721	0.010	13.80818	30.00000	Aver	
45 Cyclohexane	0.16145	0.16395	0.16395	0.010	1.55002	30.00000	Aver	
46 Tert Amyl Methyl Ether	10.00000	10.79422	0.33921	0.010	7.94223	30.00000	Line	
48 2,2,4-Trimethylpentane	0.49953	0.51084	0.51084	0.010	2.26377	30.00000	Aver	
49 Heptane	0.18021	0.18441	0.18441	0.010	2.33276	30.00000	Aver	
50 1,2-Dichloropropane	0.11682	0.12238	0.12238	0.010	4.76086	30.00000	Aver	
51 Trichloroethene	0.16802	0.18888	0.18888	0.010	12.41747	30.00000	Aver	
52 Methyl methacrylate	0.10928	0.12086	0.12086	0.010	10.59696	30.00000	Aver	
53 1,4-Dioxane	0.07535	0.08414	0.08414	0.010	11.66242	30.00000	Aver	
54 Bromodichloromethane	0.23808	0.26577	0.26577	0.010	11.63145	30.00000	Aver	
55 Methylcyclohexane	10.00000	10.73185	0.09792	0.010	7.31850	30.00000	Quad	
56 Methyl Isobutyl Ketone	0.24597	0.25719	0.25719	0.010	4.56026	30.00000	Aver	
57 cis-1,3-Dichloropropene	10.00000	10.32532	0.20728	0.010	3.25320	30.00000	Line	
58 trans-1,3-Dichloropropene	10.00000	10.59443	0.19595	0.010	5.94435	30.00000	Quad	
$ 59 Toluene-d8 (S)	0.89503	0.87760	0.87760	0.010	-1.94748	30.00000	Aver	
60 1,1,2-Trichloroethane	0.13412	0.14311	0.14311	0.010	6.70566	30.00000	Aver	
61 Toluene	0.40388	0.43825	0.43825	0.010	8.50895	30.00000	Aver	
62 Methyl Butyl Ketone	0.31584	0.35342	0.35342	0.010	11.89930	30.00000	Aver	
63 n-Octane	0.34204	0.36222	0.36222	0.010	5.89772	30.00000	Aver	
64 Dibromochloromethane	10.00000	11.19894	0.44167	0.010	11.98941	30.00000	Line	
65 1,2-Dibromoethane	0.32276	0.36252	0.36252	0.010	12.31802	30.00000	Aver	
66 Tetrachloroethene	0.34724	0.39456	0.39456	0.010	13.62722	30.00000	Aver	
68 Chlorobenzene	0.49598	0.55406	0.55406	0.010	11.71009	30.00000	Aver	
69 Ethyl Benzene	0.73550	0.84903	0.84903	0.010	15.43491	30.00000	Aver	
70 m&p-Xylene	0.57729	0.65178	0.65178	0.010	12.90378	30.00000	Aver	
71 n-Nonane	0.29775	0.34485	0.34485	0.010	15.81788	30.00000	Aver	
72 Bromoform	10.00000	11.40810	0.43131	0.010	14.08097	30.00000	Quad	
73 Styrene	10.00000	10.66413	0.51955	0.010	6.64128	30.00000	Quad	
74 o-Xylene	0.58731	0.66521	0.66521	0.010	13.26463	30.00000	Aver	
75 1,1,2,2-Tetrachloroethane	0.32362	0.37572	0.37572	0.010	16.09689	30.00000	Aver	
76 Isopropylbenzene	0.83122	0.92978	0.92978	0.010	11.85779	30.00000	Aver	
77 N-Propylbenzene	10.00000	10.96855	1.03175	0.010	9.68546	30.00000	Line	
78 4-Ethyltoluene	10.00000	10.78066	0.91887	0.010	7.80658	30.00000	Quad	
79 1,3,5-Trimethylbenzene	10.00000	11.08651	0.78114	0.010	10.86511	30.00000	Line	
80 n-Decane	10.00000	10.08991	0.25783	0.010	0.89915	30.00000	Line	
81 Tert-Butyl Benzene	0.66403	0.80369	0.80369	0.010	21.03294	30.00000	Aver	
82 1,2,4-Trimethylbenzene	0.59403	0.72252	0.72252	0.010	21.62980	30.00000	Aver	
83 1,3-Dichlorobenzene	10.00000	11.49135	0.48504	0.010	14.91352	30.00000	Line	
84 Sec- Butylbenzene	0.83200	1.00411	1.00411	0.010	20.68655	30.00000	Aver	
$ 85 1,4-dichlorobenzene-d4 (S)	0.55087	0.66951	0.66951	0.010	21.53719	30.00000	Aver	
86 Benzyl Chloride	10.00000	10.32829	0.46555	0.010	3.28285	30.00000	Quad	

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 07-MAR-2017 08:58
Lab File ID: 06602.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.48214	0.48214	0.010	23.89595	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	11.15245	0.88584	0.010	11.52452	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.70363	0.70363	0.010	19.97435	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.89180	0.44619	0.010	8.91798	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.94235	0.66713	0.010	9.42355	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	11.12353	0.17755	0.010	11.23533	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	10.80677	0.18416	0.010	8.06766	30.00000	Quad	
94 Naphthalene	10.00000	10.03140	0.40516	0.010	0.31403	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.20975	0.20975	0.010	20.87717	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 7.93048
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Lab Smp Id: ccv
Inj Date : 07-MAR-2017 08:58
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Meth Date : 07-Mar-2017 09:23 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.909	2.909	(0.519)	104975	10.0000	10.7
2	1,1-Difluoroethane	65	2.986	2.986	(0.532)	81918	10.0000	10.5
3	Chlorodifluoromethane	67	2.992	2.992	(0.533)	39662	10.0000	10.6
4	Propylene	41	2.992	2.992	(0.533)	91981	10.0000	9.29(H)
5	Dichlorodifluoromethane	85	3.028	3.028	(0.540)	407345	10.0000	10.8(H)
6	Chloromethane	50	3.127	3.127	(0.558)	153497	10.0000	10.0
7	Dichlorotetrafluoroethane	85	3.144	3.144	(0.560)	381871	10.0000	10.3
8	Vinyl chloride	62	3.208	3.208	(0.572)	132772	10.0000	10.0
9	1,3-Butadiene	54	3.253	3.253	(0.580)	95132	10.0000	9.87
10	Bromomethane	94	3.391	3.391	(0.605)	119550	10.0000	9.77
11	Chloroethane	64	3.446	3.446	(0.614)	56241	10.0000	9.25
12	Ethanol	45	3.539	3.539	(0.631)	232707	50.0000	47.5
13	Vinyl Bromide	106	3.565	3.565	(0.635)	124922	10.0000	9.85
14	Isopentane	43	3.584	3.584	(0.639)	125018	10.0000	9.30
15	Freon 123	83	3.594	3.594	(0.641)	125962	10.0000	8.94
16	Trichlorofluoromethane	101	3.661	3.661	(0.653)	351690	10.0000	9.62
17	Acrolein	56	3.674	3.674	(0.655)	114993	25.0000	23.2
18	Acetone	43	3.713	3.713	(0.662)	918163	50.0000	43.4
19	Isopropyl Alcohol	45	3.761	3.761	(0.670)	1042503	50.0000	48.3
20	1,1-Dichloroethene	61	3.896	3.896	(0.695)	204412	10.0000	9.62
21	Acrylonitrile	53	3.925	3.925	(0.700)	239892	25.0000	24.6
22	Freon 113	101	3.938	3.938	(0.702)	272345	10.0000	9.87
23	Methyl Acetate	43	3.954	3.954	(0.705)	311753	10.0000	9.68

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.705)	711551	25.0000	25.7
	25 Methylene chloride	49	3.999	3.999	(0.713)	675368	50.0000	45.2
	26 Allyl Chloride	76	4.012	4.012	(0.715)	128384	25.0000	24.7
	27 Carbon Disulfide	76	4.115	4.115	(0.733)	304991	10.0000	10.9
	28 trans-1,2-dichloroethene	96	4.269	4.269	(0.761)	125468	10.0000	10.5
	29 Methyl Tert Butyl Ether	73	4.298	4.298	(0.766)	863472	25.0000	25.4
	30 Vinyl Acetate	43	4.385	4.385	(0.782)	338915	10.0000	9.53
	31 1,1-Dichloroethane	63	4.407	4.407	(0.786)	226159	10.0000	9.74
$	32 Hexane-d14(S)	66	4.481	4.481	(0.799)	379513	10.0000	8.95
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.811)	60745	10.0000	9.64
	34 n-Hexane	57	4.578	4.578	(0.816)	206107	10.0000	9.70(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.820)	397804	10.0000	9.65
	36 Ethyl Acetate	43	4.716	4.716	(0.841)	265354	10.0000	9.70
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	139266	10.0000	10.5
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.860)	1021699	25.0000	23.7
	39 Chloroform	83	4.838	4.838	(0.862)	256437	10.0000	9.29
	40 Tetrahydrofuran	42	4.989	4.989	(0.889)	147922	10.0000	10.0
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	347926	10.0000	10.7
	42 1,2-Dichloroethane	62	5.233	5.233	(0.933)	251809	10.0000	10.2
	43 Benzene	78	5.465	5.465	(0.974)	453012	10.0000	10.5
	44 Carbon tetrachloride	117	5.481	5.481	(0.977)	369465	10.0000	11.4
	45 Cyclohexane	56	5.487	5.487	(0.978)	218510	10.0000	10.2
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.999)	452095	10.0000	10.8
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	1332803	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.029)	1702123	25.0000	25.6
	49 Heptane	43	5.889	5.889	(1.050)	245783	10.0000	10.2
	50 1,2-Dichloropropane	63	5.967	5.967	(1.064)	163111	10.0000	10.5
	51 Trichloroethene	130	5.986	5.986	(1.067)	251743	10.0000	11.2
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	161088	10.0000	11.1
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	112137	10.0000	11.2
	54 Bromodichloromethane	83	6.086	6.086	(1.085)	354216	10.0000	11.2
	55 Methylcyclohexane	98	6.430	6.430	(1.146)	130511	10.0000	10.7
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.164)	856960	25.0000	26.1
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	276265	10.0000	10.3
	58 trans-1,3-Dichloropropene	75	6.983	6.983	(1.245)	261160	10.0000	10.6
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1169664	10.0000	9.81
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	190743	10.0000	10.7
	61 Toluene	91	7.150	7.150	(1.275)	584102	10.0000	10.9
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	799202	25.0000	28.0
	63 n-Octane	43	7.584	7.584	(0.877)	327638	10.0000	10.6
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	399507	10.0000	11.2
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	327909	10.0000	11.2
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	356893	10.0000	11.4
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	904534	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	501166	10.0000	11.2
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	767976	10.0000	11.5
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1179110	20.0000	22.6
	71 n-Nonane	43	9.471	9.471	(1.096)	311929	10.0000	11.6
	72 Bromoform	173	9.481	9.481	(1.097)	390132	10.0000	11.4
	73 Styrene	104	9.507	9.507	(1.100)	469950	10.0000	10.7
	74 o-Xylene	91	9.581	9.581	(1.108)	601706	10.0000	11.3
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	339848	10.0000	11.6
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	841017	10.0000	11.2
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	933256	10.0000	11.0

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	831151	10.0000	10.8
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	706564	10.0000	11.1
80	n-Decane	57	11.378	11.378	(2.028)	343630	10.0000	10.1
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	726966	10.0000	12.1
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	653546	10.0000	12.2
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	438736	10.0000	11.5
84	Sec- Butylbenzene	105	11.809	11.809	(1.366)	908255	10.0000	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	605592	10.0000	12.2
86	Benzyl Chloride	91	11.867	11.867	(1.373)	421106	10.0000	10.3
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	436108	10.0000	12.4
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	801271	10.0000	11.2
89	1,2,3-Trimethylbenzene	105	12.037	12.037	(1.392)	636453	10.0000	12.0
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	403592	10.0000	10.9
91	N-Butylbenzene	91	12.461	12.461	(1.441)	603440	10.0000	10.9
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	160601	10.0000	11.1
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.624)	166582	10.0000	10.8
94	Naphthalene	128	14.169	14.169	(1.639)	366483	10.0000	10.0
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	189728	10.0000	12.1

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06602.D
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Misc Info:

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

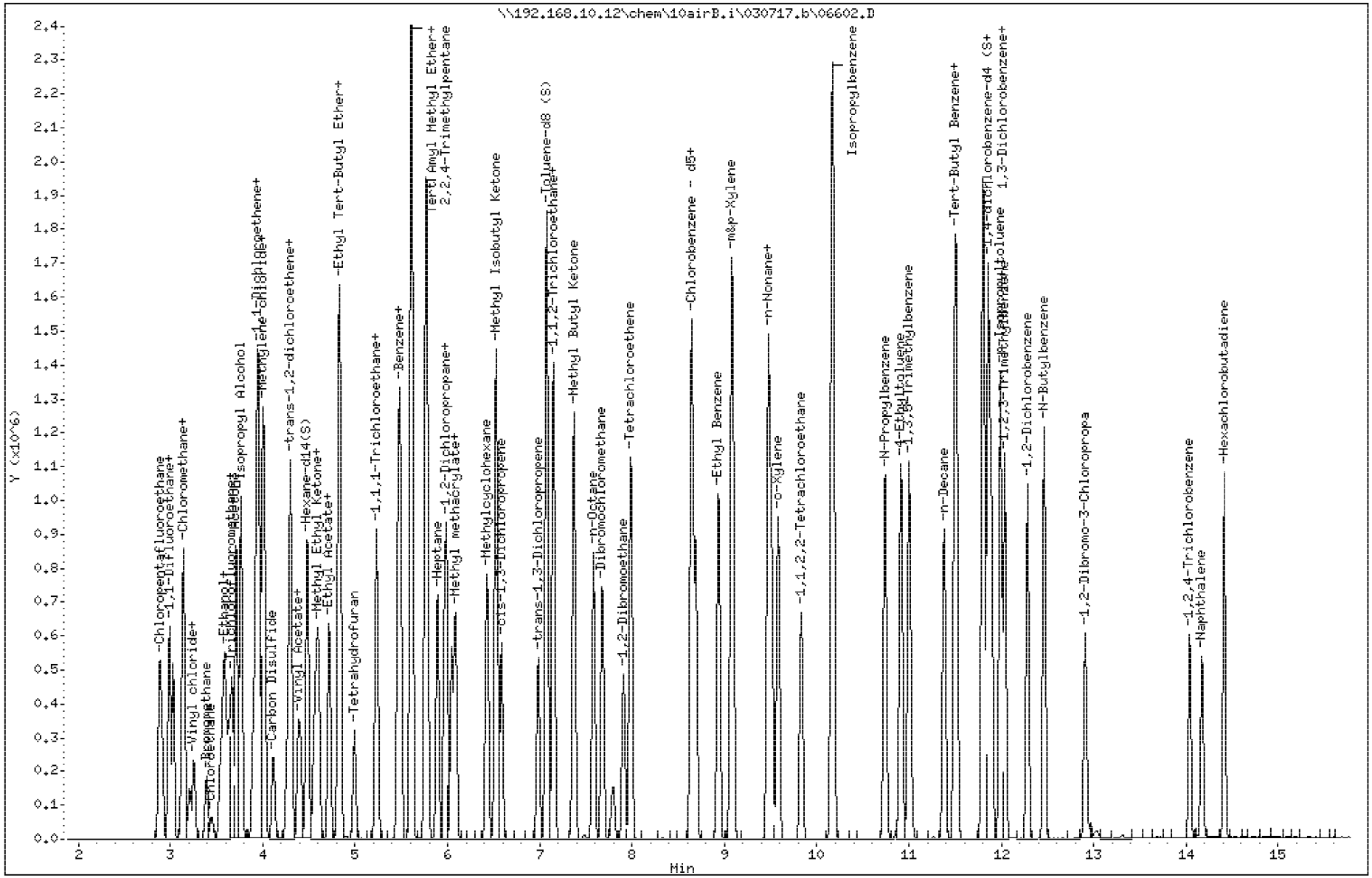
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1332803	-5.75
67 Chlorobenzene - d	951026	570616	1331436	904534	-4.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

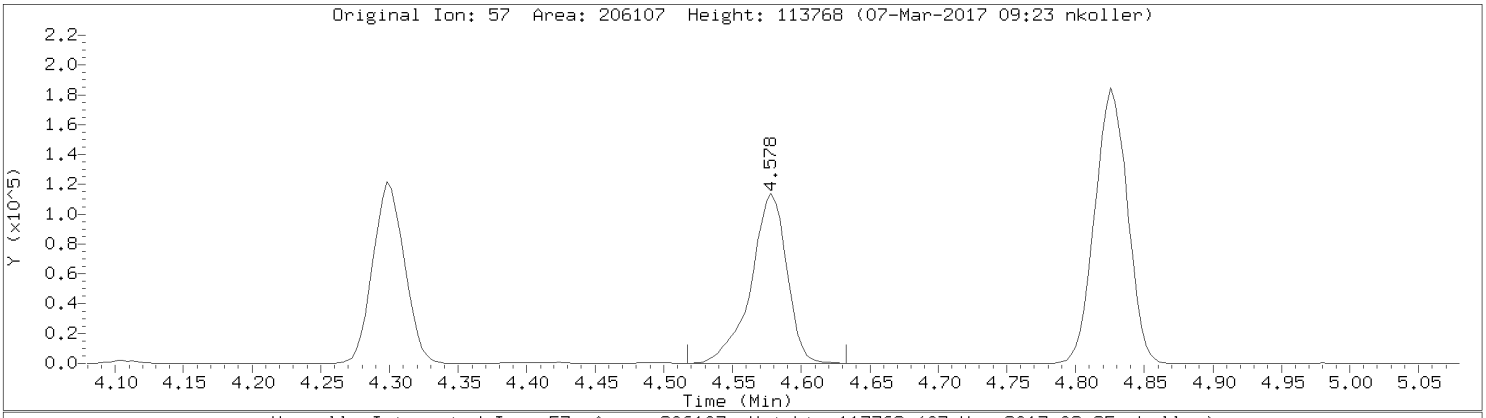
Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Date : 07-MAR-2017 08:58
Client ID:
Sample Info:

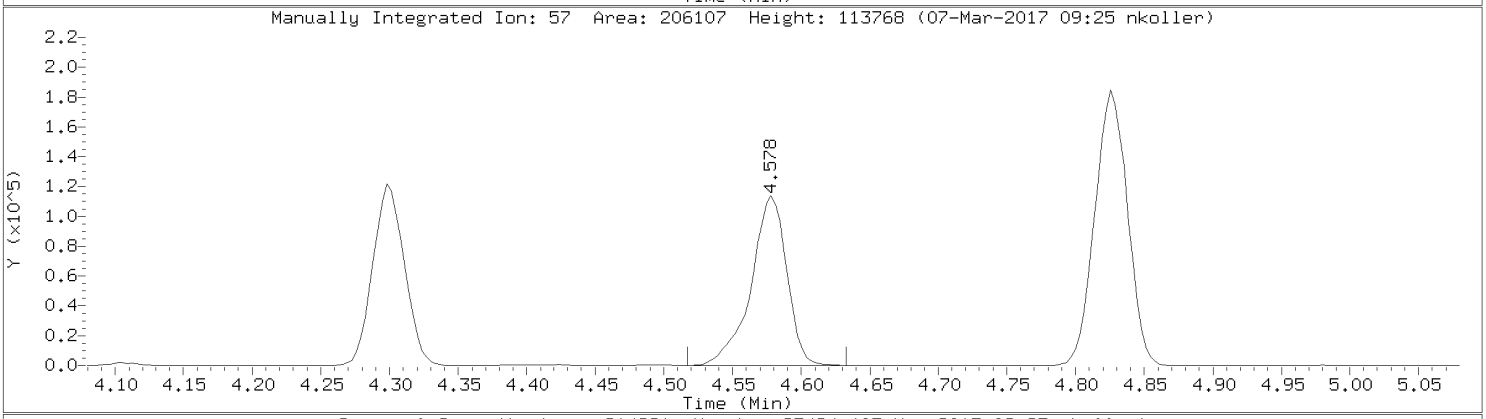
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

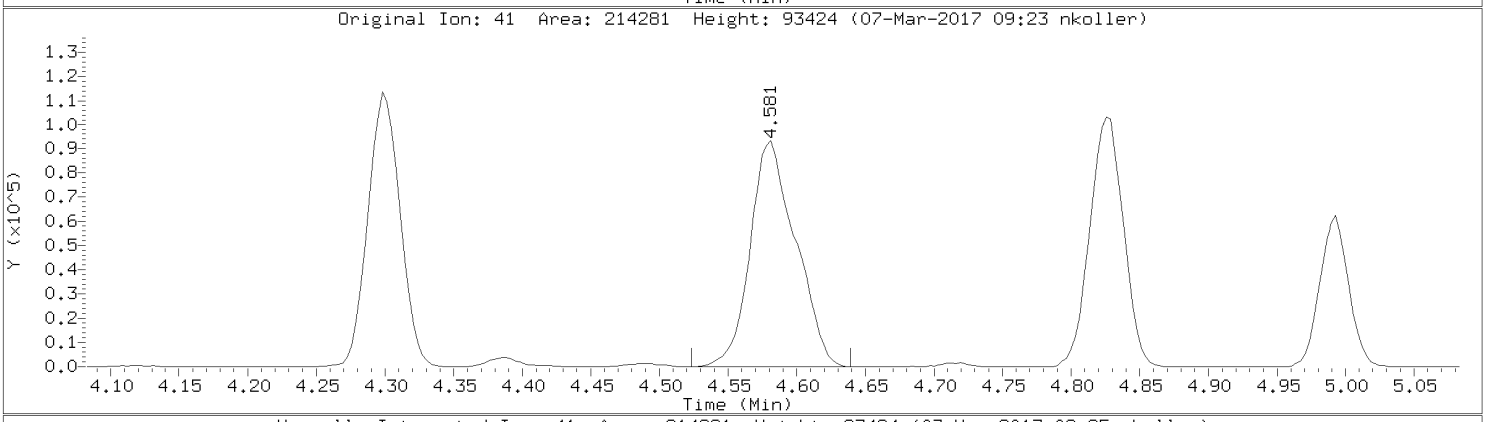


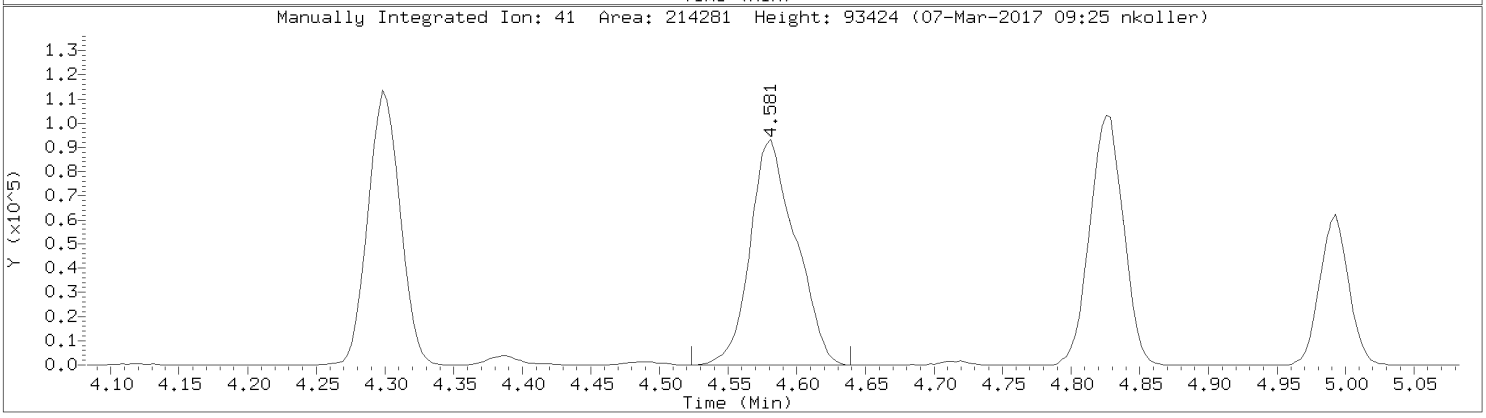
Data File: \\192.168.10.12\chem\10airB.i\030717.b/06602.D
Injection Date: 07-MAR-2017 08:58
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: n-Hexane
CAS Number: 110-54-3

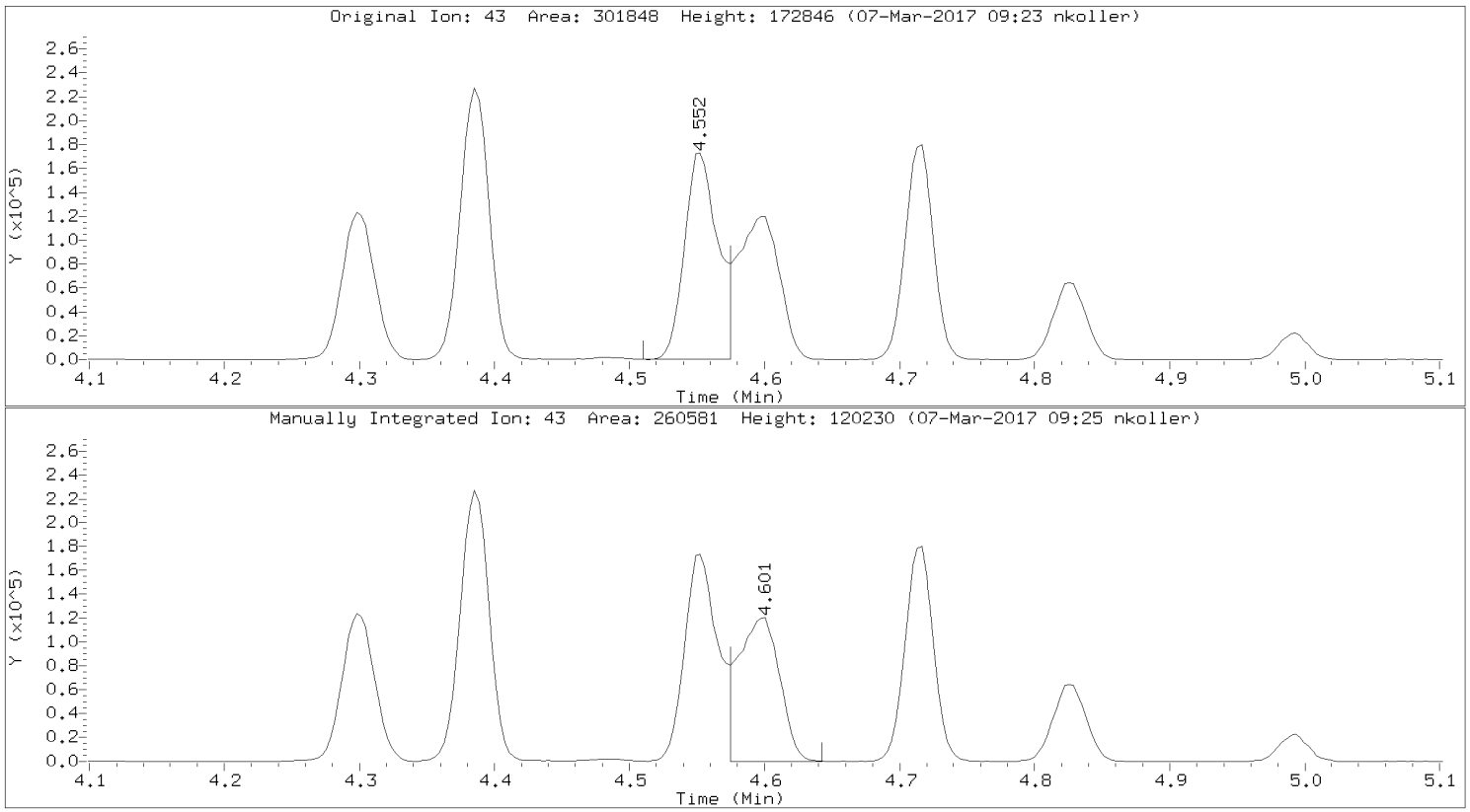








Data File: \\192.168.10.12\chem\10airB.i\030717.b/06602.D
Injection Date: 07-MAR-2017 08:58
Instrument: 10airB.i
Lab Sample ID: ccv



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\030717thc.b\06602.D
Lab Smp Id: ccv
Inj Date : 07-MAR-2017 08:58
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\030717thc.b\THC_061-17.m
Meth Date : 08-Mar-2017 09:29 nkoller Quant Type: ESTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

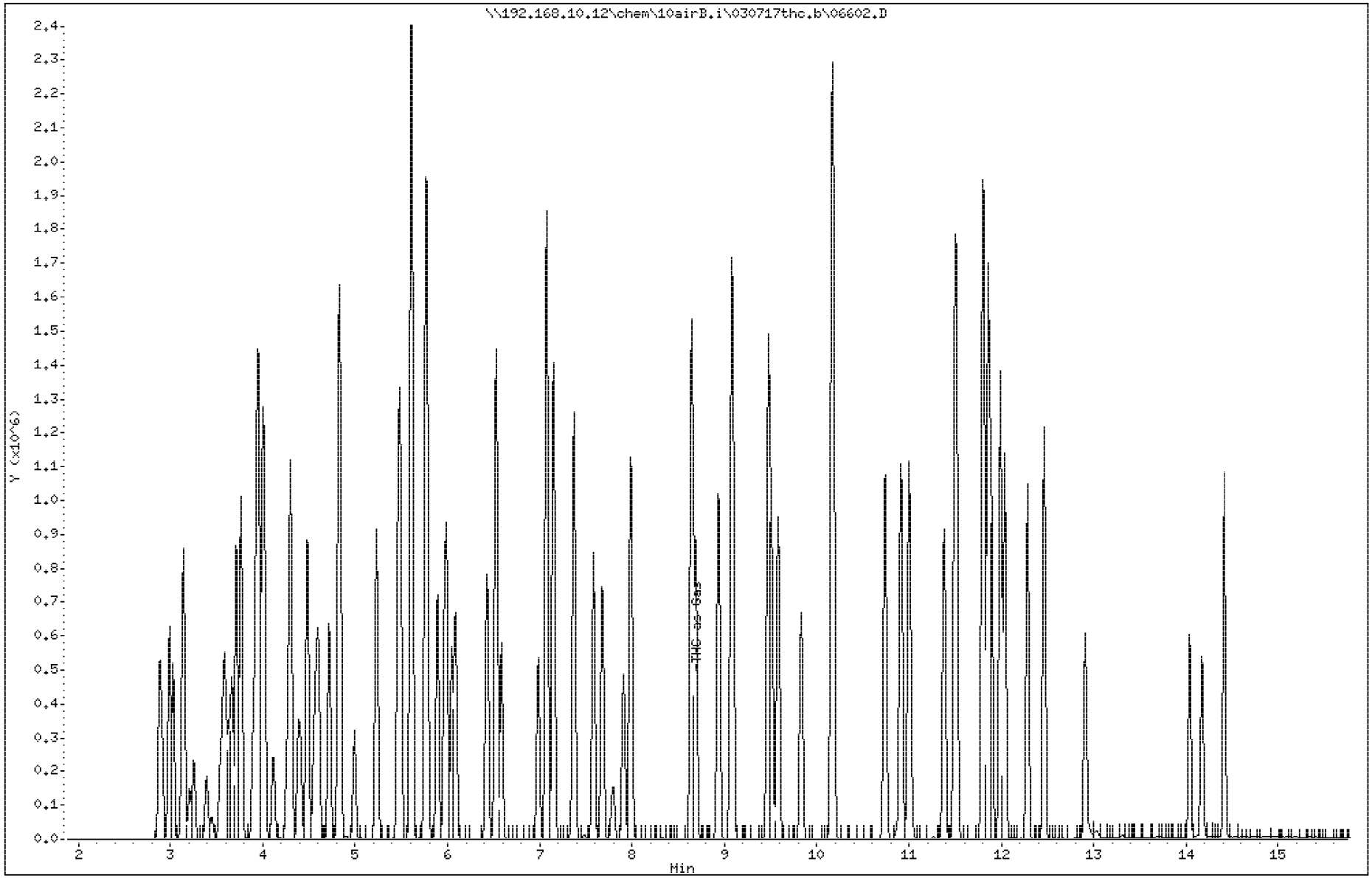
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			117611223	1195.00	1108

Data File: \\192.168.10.12\chem\10airB.i\030717thc.b\06602.D
Date : 07-MAR-2017 08:58
Client ID:
Sample Info:

Column phase: DB-624

Instrument: 10airB.i

Operator: NCK
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06101BFB.D

Date : 02-MAR-2017 07:16

Client ID: BFB

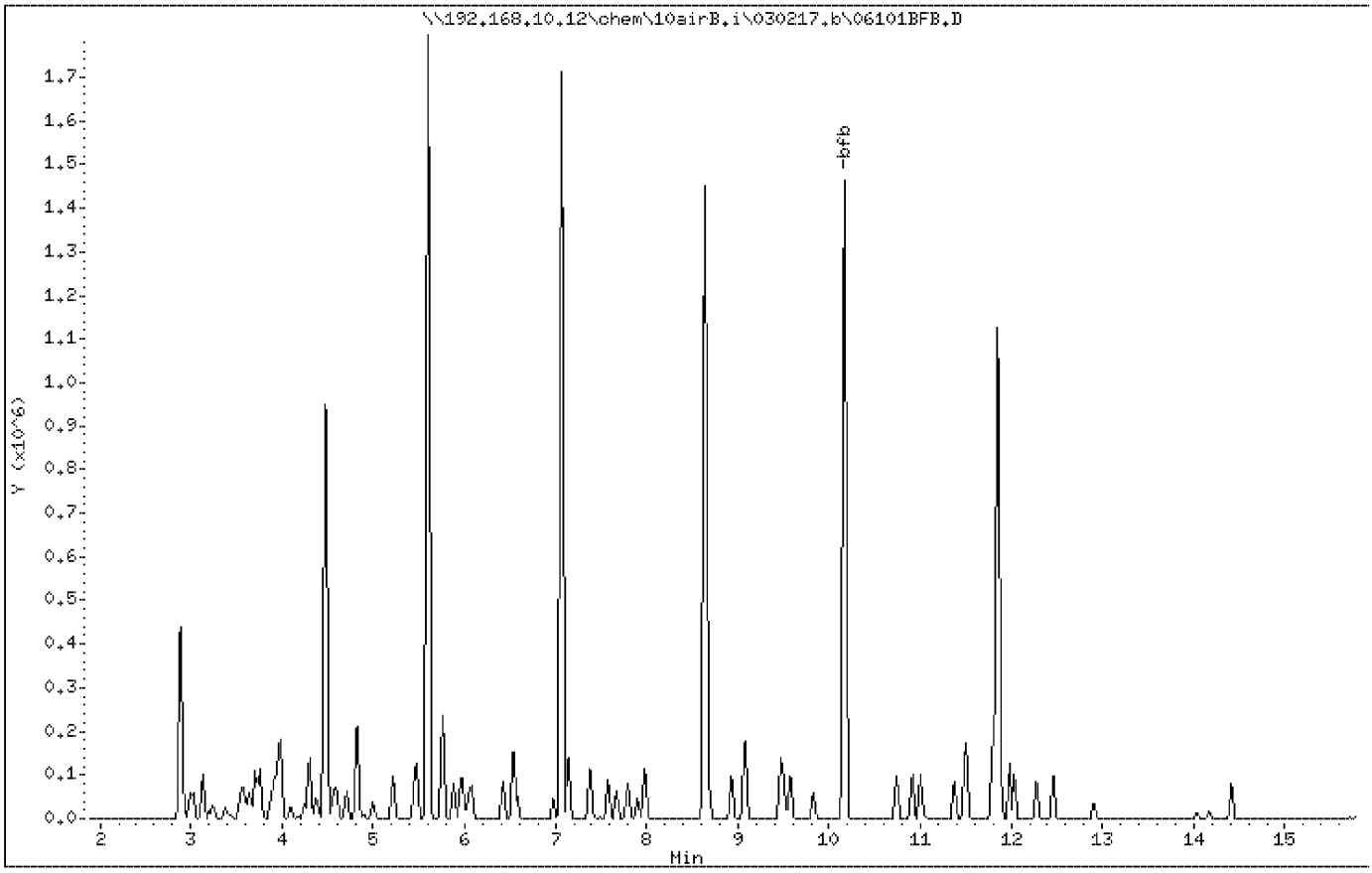
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06101BFB.D

Date : 02-MAR-2017 07:16

Client ID: BFB

Instrument: 10airB.i

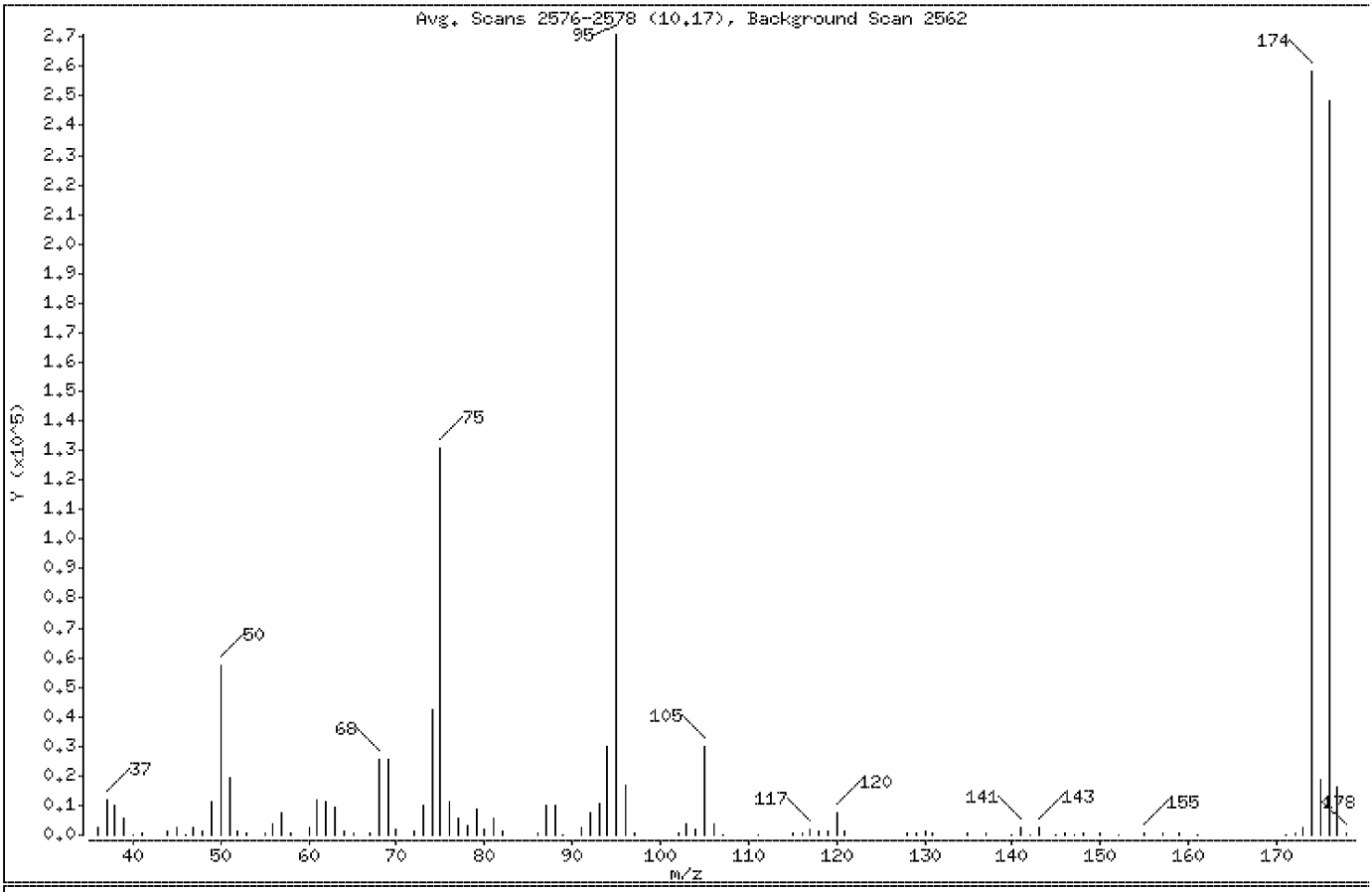
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.18
75	30.00 - 66.00% of mass 95	48.17
96	5.00 - 9.00% of mass 95	6.23
173	Less than 2.00% of mass 174	0.90 (0.94)
174	50.00 - 120.00% of mass 95	95.41
175	4.00 - 9.00% of mass 174	6.96 (7.30)
176	93.00 - 101.00% of mass 174	91.75 (96.16)
177	5.00 - 9.00% of mass 176	5.98 (6.52)

Date : 02-MAR-2017 07:16

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06101BFB.D
Spectrum: Avg. Scans 2576-2578 (10,17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2414	64.00	936	94.00	29624	140.00	93
37.00	11601	65.00	686	95.00	270784	141.00	2504
38.00	10262	67.00	691	96.00	16872	142.00	222
39.00	5600	68.00	25720	97.00	545	143.00	2723
40.00	147	69.00	25264	102.00	504	145.00	96
41.00	842	70.00	1796	103.00	3533	146.00	437
44.00	1483	72.00	1183	104.00	1718	147.00	85
45.00	2196	73.00	10041	105.00	29728	148.00	636
46.00	89	74.00	42280	106.00	3474	150.00	499
47.00	2667	75.00	130432	107.00	217	152.00	219
48.00	1338	76.00	11065	111.00	101	155.00	641
49.00	11307	77.00	5335	115.00	595	157.00	435
50.00	57344	78.00	2928	116.00	910	159.00	361
51.00	19488	79.00	8724	117.00	1673	161.00	149
52.00	1472	80.00	1611	118.00	1063	171.00	83
53.00	374	81.00	5466	119.00	1240	172.00	358
55.00	735	82.00	1172	120.00	7547	173.00	2436
56.00	3772	86.00	382	121.00	971	174.00	258368
57.00	7168	87.00	9720	128.00	762	175.00	18856
58.00	462	88.00	9915	129.00	434	176.00	248448
60.00	2457	89.00	211	130.00	1020	177.00	16201
61.00	11592	91.00	2631	131.00	384	178.00	373
62.00	11482	92.00	7204	135.00	463		
63.00	9244	93.00	10331	137.00	344		

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06401BFB.D

Date : 05-MAR-2017 09:08

Client ID: BFB

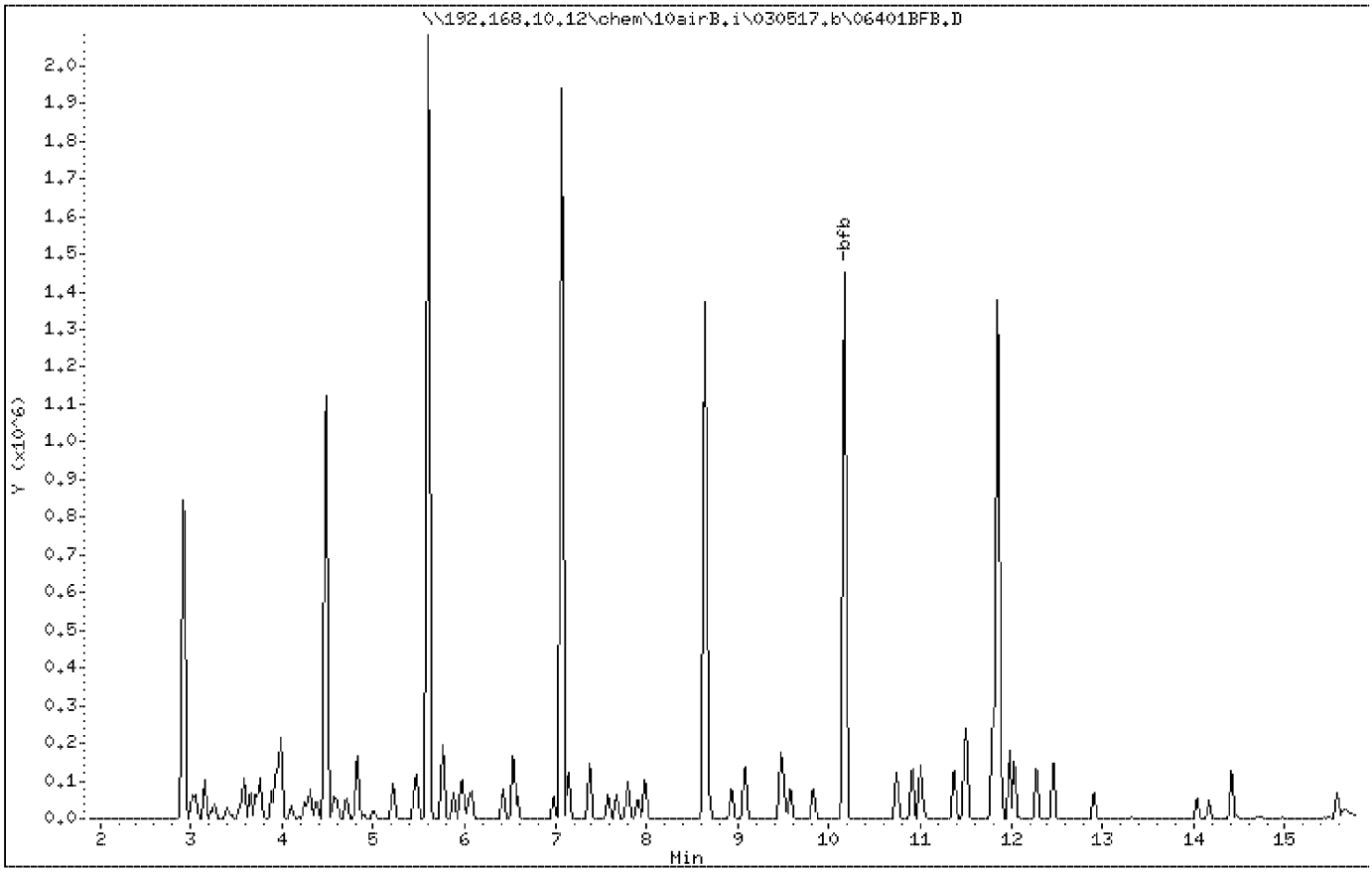
Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06401BFB.D

Date : 05-MAR-2017 09:08

Client ID: BFB

Instrument: 10airB.i

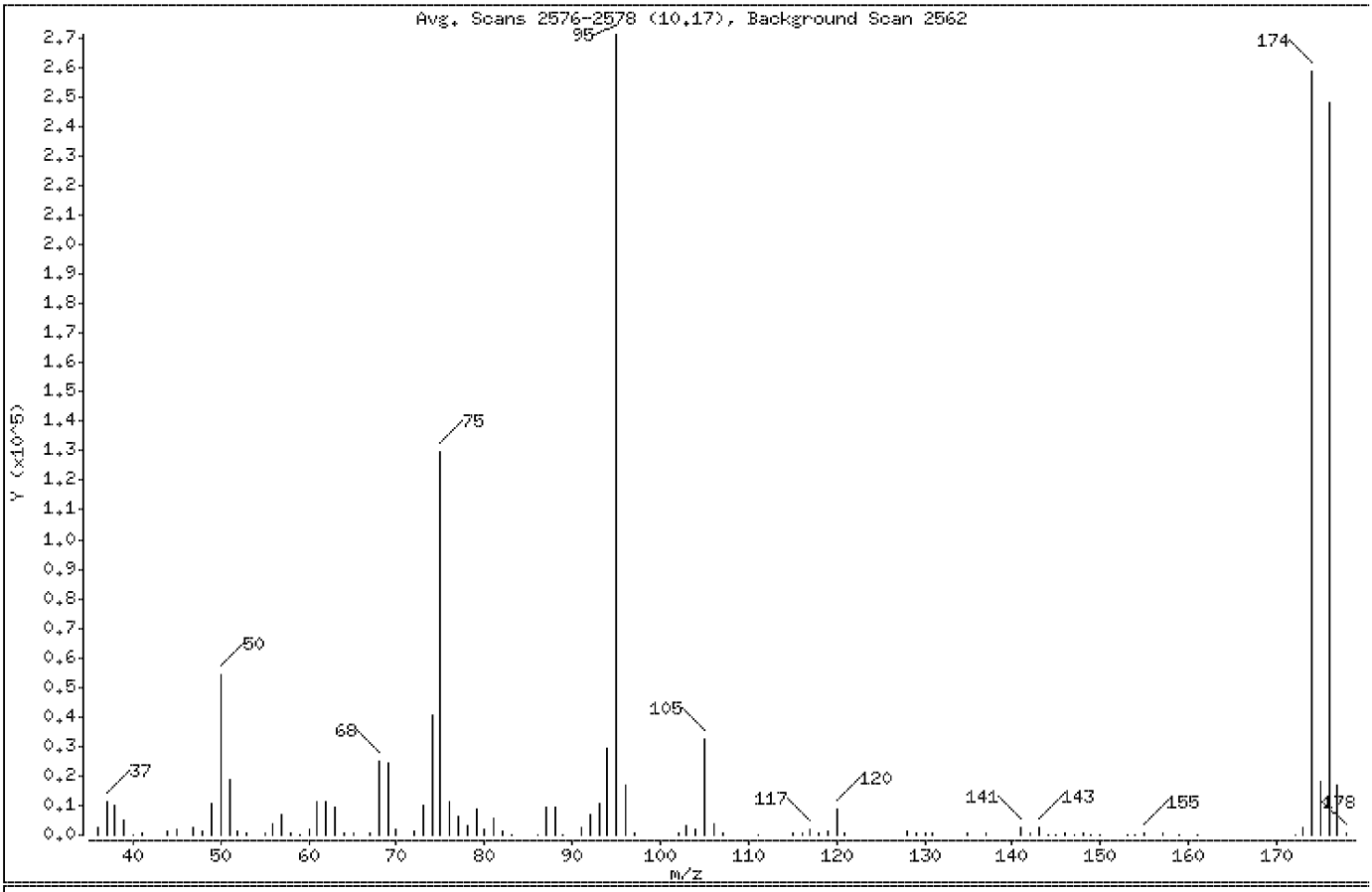
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	20.04
75	30.00 - 66.00% of mass 95	47.83
96	5.00 - 9.00% of mass 95	6.22
173	Less than 2.00% of mass 174	0.95 (0.99)
174	50.00 - 120.00% of mass 95	95.49
175	4.00 - 9.00% of mass 174	6.70 (7.02)
176	93.00 - 101.00% of mass 174	91.43 (95.75)
177	5.00 - 9.00% of mass 176	6.11 (6.68)

Date : 05-MAR-2017 09:08

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06401BFB.D
Spectrum: Avg. Scans 2576-2578 (10.17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2261	65.00	861	95.00	271104	143.00	2397
37.00	11370	67.00	610	96.00	16864	144.00	87
38.00	9930	68.00	25048	97.00	547	145.00	99
39.00	5222	69.00	24592	102.00	482	146.00	350
40.00	205	70.00	1617	103.00	3304	147.00	99
41.00	541	72.00	1334	104.00	1904	148.00	760
44.00	1536	73.00	10277	105.00	32208	149.00	97
45.00	2081	74.00	40464	106.00	3765	150.00	231
47.00	2550	75.00	129664	107.00	398	153.00	113
48.00	1379	76.00	11014	111.00	86	154.00	86
49.00	10811	77.00	5941	115.00	570	155.00	733
50.00	54336	78.00	2878	116.00	764	157.00	461
51.00	18440	79.00	8608	117.00	1678	159.00	250
52.00	1512	80.00	1839	118.00	853	161.00	101
53.00	399	81.00	5465	119.00	1315	172.00	243
55.00	755	82.00	1078	120.00	8860	173.00	2574
56.00	3801	83.00	88	121.00	828	174.00	258880
57.00	6954	86.00	128	128.00	980	175.00	18176
58.00	521	87.00	9269	129.00	402	176.00	247872
59.00	87	88.00	9464	130.00	721	177.00	16568
60.00	2030	89.00	172	131.00	384	178.00	387
61.00	11074	91.00	2573	135.00	401		
62.00	11150	92.00	7069	137.00	382		
63.00	9338	93.00	10724	141.00	2410		
64.00	899	94.00	29288	142.00	315		

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06501BFB.D

Date : 06-MAR-2017 08:42

Client ID: BFB

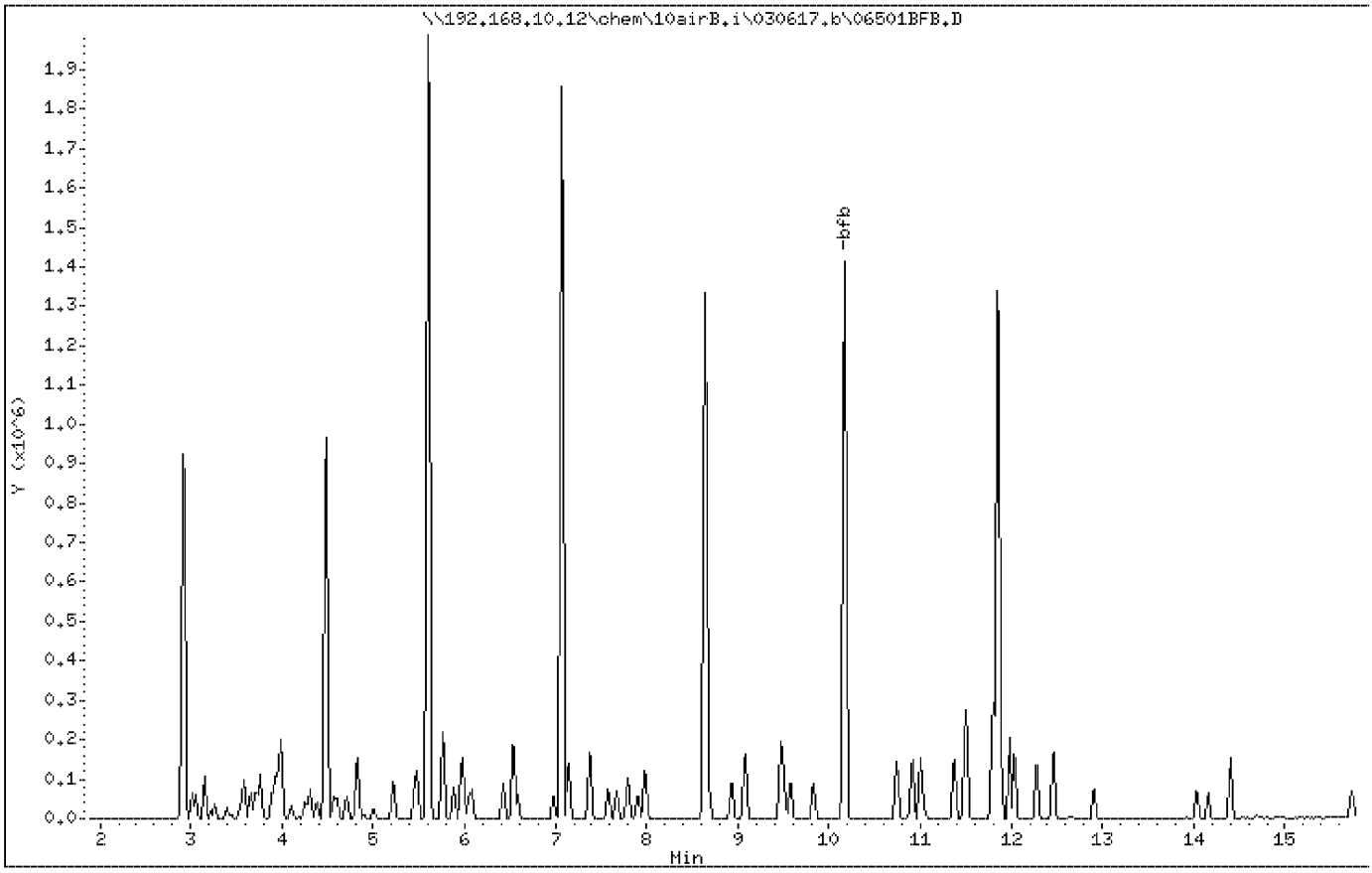
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b\06501BFB.D

Date : 06-MAR-2017 08:42

Client ID: BFB

Instrument: 10airB.i

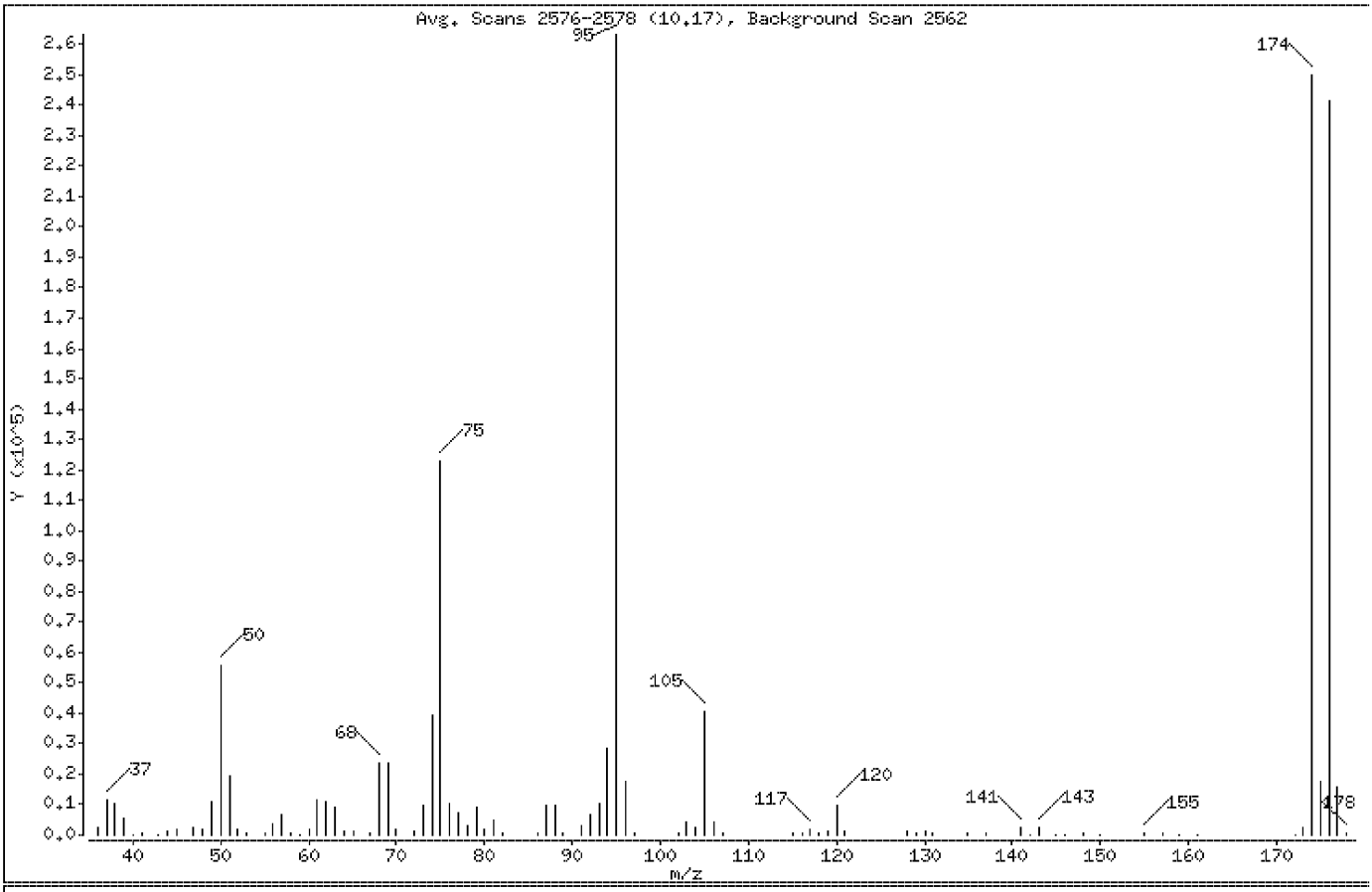
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.14
75	30.00 - 66.00% of mass 95	46.63
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.90 (0.95)
174	50.00 - 120.00% of mass 95	94.92
175	4.00 - 9.00% of mass 174	6.78 (7.14)
176	93.00 - 101.00% of mass 174	91.76 (96.67)
177	5.00 - 9.00% of mass 176	5.88 (6.41)

Date : 06-MAR-2017 08:42

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06501BFB.D
Spectrum: Avg. Scans 2576-2578 (10,17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2325	62.00	11012	91.00	2938	131.00	358
37.00	11363	63.00	8855	92.00	6439	135.00	485
38.00	10300	64.00	937	93.00	10110	137.00	416
39.00	5334	65.00	1130	94.00	28720	141.00	2261
40.00	104	67.00	529	95.00	263168	142.00	100
41.00	892	68.00	23696	96.00	17472	143.00	2367
43.00	222	69.00	23584	97.00	492	145.00	180
44.00	1357	70.00	1767	102.00	790	146.00	221
45.00	2117	72.00	1173	103.00	4244	148.00	567
47.00	2525	73.00	9694	104.00	2122	150.00	239
48.00	1514	74.00	39080	105.00	40264	155.00	667
49.00	11023	75.00	122728	106.00	4143	157.00	483
50.00	55640	76.00	10525	107.00	311	159.00	212
51.00	19336	77.00	7127	115.00	657	161.00	237
52.00	1544	78.00	3030	116.00	780	172.00	257
53.00	470	79.00	9188	117.00	1540	173.00	2363
55.00	615	80.00	1632	118.00	810	174.00	249792
56.00	3480	81.00	5074	119.00	1247	175.00	17840
57.00	6663	82.00	862	120.00	9951	176.00	241472
58.00	487	86.00	354	121.00	932	177.00	15485
59.00	184	87.00	9764	128.00	1011	178.00	433
60.00	1965	88.00	9392	129.00	403		
61.00	11244	89.00	472	130.00	977		

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06601BFB.D

Date : 07-MAR-2017 08:30

Client ID: BFB

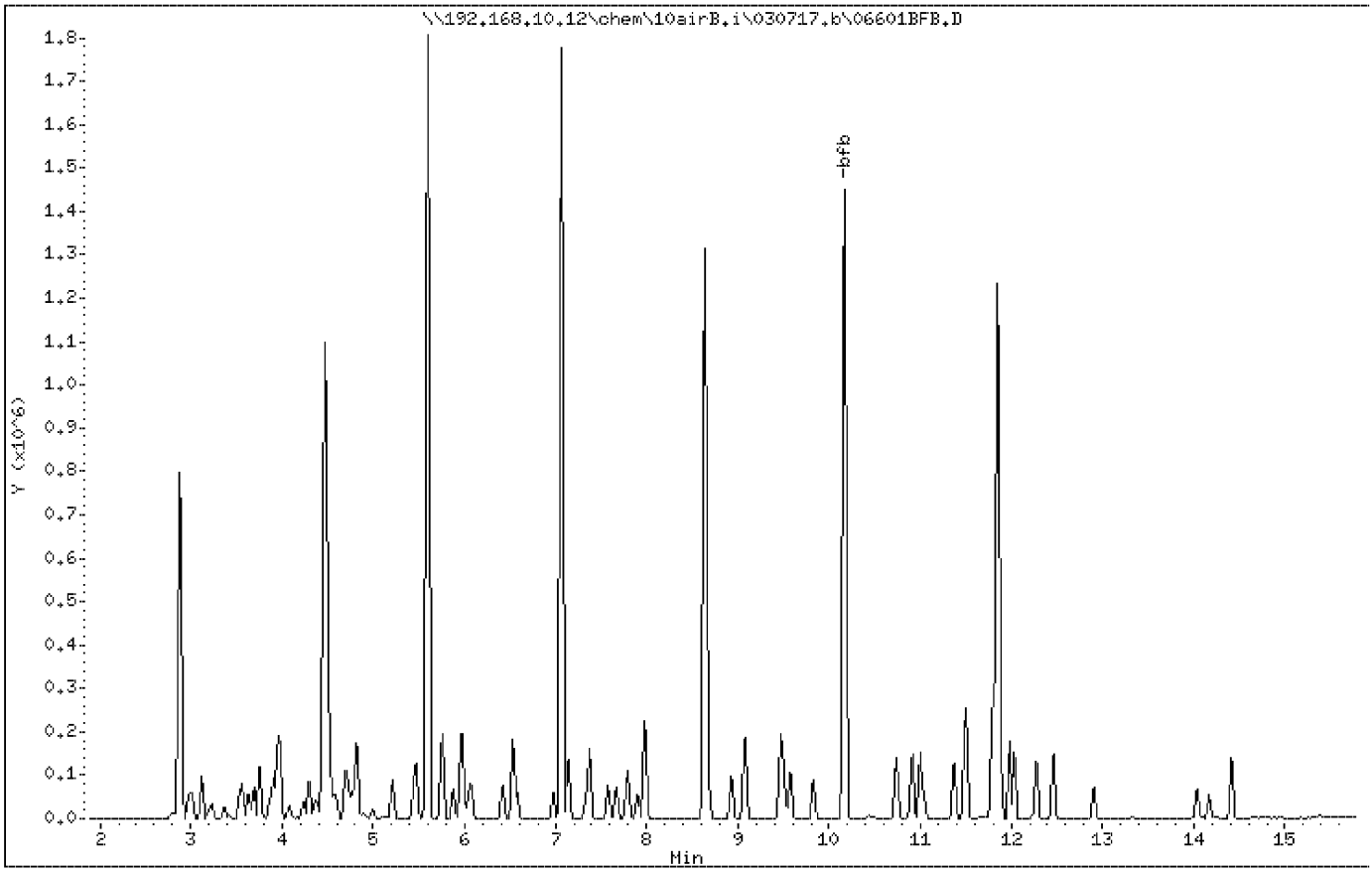
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030717.b\06601BFB.D

Date : 07-MAR-2017 08:30

Client ID: BFB

Instrument: 10airB.i

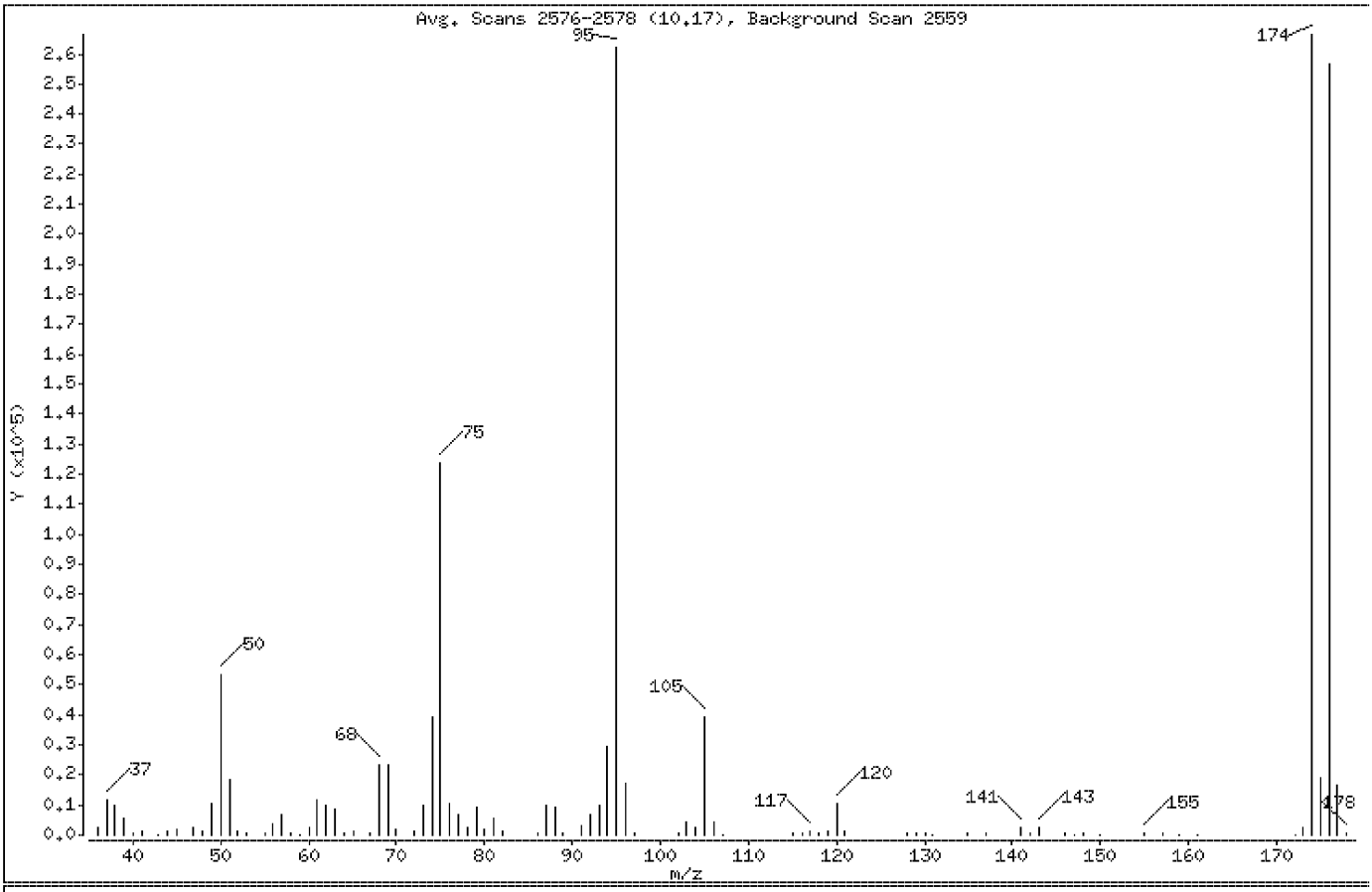
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	20.28
75	30.00 - 66.00% of mass 95	47.24
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.98 (0.96)
174	50.00 - 120.00% of mass 95	101.69
175	4.00 - 9.00% of mass 174	7.28 (7.16)
176	93.00 - 101.00% of mass 174	98.02 (96.40)
177	5.00 - 9.00% of mass 176	6.37 (6.49)

Date : 07-MAR-2017 08:30

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06601BFB.D
Spectrum: Avg. Scans 2576-2578 (10,17), Background Scan 2559
Location of Maximum: 174.00
Number of points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2273	62.00	10081	91.00	2931	131.00	92
37.00	11401	63.00	8792	92.00	6668	135.00	578
38.00	10059	64.00	878	93.00	9983	137.00	386
39.00	5397	65.00	1023	94.00	29104	141.00	2272
40.00	443	67.00	697	95.00	262016	142.00	339
41.00	929	68.00	23400	96.00	17280	143.00	2236
43.00	108	69.00	23352	97.00	577	146.00	352
44.00	1295	70.00	1609	102.00	677	147.00	99
45.00	2037	72.00	1330	103.00	4125	148.00	696
47.00	2445	73.00	9923	104.00	2303	150.00	185
48.00	1330	74.00	39048	105.00	39000	155.00	602
49.00	10271	75.00	123784	106.00	3985	157.00	449
50.00	53128	76.00	10504	107.00	290	159.00	215
51.00	18488	77.00	6644	115.00	750	161.00	111
52.00	1519	78.00	2748	116.00	909	172.00	96
53.00	423	79.00	8919	117.00	1490	173.00	2556
55.00	750	80.00	1764	118.00	814	174.00	266432
56.00	3557	81.00	5253	119.00	1224	175.00	19080
57.00	6743	82.00	1167	120.00	10274	176.00	256832
58.00	408	86.00	396	121.00	961	177.00	16680
59.00	92	87.00	9914	128.00	866	178.00	531
60.00	2274	88.00	9223	129.00	384		
61.00	11388	89.00	475	130.00	833		

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10380193001	**VP-NYSDEC-5_5_20170223**	TO-15	462594		
10380193002	**VP-NYSDEC-5_10_20170223**	TO-15	462594		
10380193003	**VP-NYSDEC-5_20_20170223**	TO-15	462594		
10380193004	**VP-NYSDEC-5_30_20170223**	TO-15	462594		
10380193005	**VP-NYSDEC-5_40_20170223**	TO-15	462594		
10380193006	**VP-NYSDEC-5_50_20170223**	TO-15	462594		
10380193007	**VP-9_10_20170223**	TO-15	462594		
10380193008	**VP-9_20_20170223**	TO-15	462594		
10380193009	**VP-9_30_20170223**	TO-15	462594		
10380193010	**VP-9_40_20170223**	TO-15	462594		
10380193011	**VP-9_50_20170223**	TO-15	462594		
10380193012	**VP-9_60_20170223**	TO-15	462594		
10380193013	**VP-105_5_20170223**	TO-15	462594		
10380193014	**VP-105_10_20170223**	TO-15	462987		
10380193015	**VP-105_20_20170223**	TO-15	462987		
10380193016	**VP-105_50_20170223**	TO-15	462794		
10380193017	**VP-105_60_20170223**	TO-15	462794		
10380193018	**VP-105_72_20170223**	TO-15	462794		
10380193019	**VP-9_60_20170223DUP**	TO-15	462794		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

QC Batch: 462594 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10380193001, 10380193002, 10380193003, 10380193004, 10380193005, 10380193006, 10380193007, 10380193008, 10380193009, 10380193010, 10380193011, 10380193012, 10380193013

METHOD BLANK: 2529703 Matrix: Air
Associated Lab Samples: 10380193001, 10380193002, 10380193003, 10380193004, 10380193005, 10380193006, 10380193007, 10380193008, 10380193009, 10380193010, 10380193011, 10380193012, 10380193013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/05/17 13:11	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/05/17 13:11	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/05/17 13:11	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/05/17 13:11	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/05/17 13:11	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/05/17 13:11	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/05/17 13:11	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/05/17 13:11	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/05/17 13:11	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/05/17 13:11	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/05/17 13:11	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/05/17 13:11	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/05/17 13:11	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/05/17 13:11	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/05/17 13:11	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/05/17 13:11	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/05/17 13:11	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/05/17 13:11	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/05/17 13:11	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/05/17 13:11	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/05/17 13:11	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/05/17 13:11	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/05/17 13:11	
Acetone	ug/m3	<0.83	2.4	0.83	03/05/17 13:11	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/05/17 13:11	
Benzene	ug/m3	<0.12	0.32	0.12	03/05/17 13:11	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/05/17 13:11	
Bromoform	ug/m3	<0.90	2.1	0.90	03/05/17 13:11	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/05/17 13:11	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/05/17 13:11	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/05/17 13:11	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/05/17 13:11	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/05/17 13:11	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/05/17 13:11	
Chloroform	ug/m3	<0.19	0.50	0.19	03/05/17 13:11	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/05/17 13:11	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/05/17 13:11	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/05/17 13:11	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/05/17 13:11	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/05/17 13:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

METHOD BLANK: 2529703 Matrix: Air

Associated Lab Samples: 10380193001, 10380193002, 10380193003, 10380193004, 10380193005, 10380193006, 10380193007, 10380193008, 10380193009, 10380193010, 10380193011, 10380193012, 10380193013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/05/17 13:11	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/05/17 13:11	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/05/17 13:11	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/05/17 13:11	
Freon 123	ug/m3	<3.2	3.2	3.2	03/05/17 13:11	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/05/17 13:11	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/05/17 13:11	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/05/17 13:11	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/05/17 13:11	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/05/17 13:11	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/05/17 13:11	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/05/17 13:11	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/05/17 13:11	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/05/17 13:11	
Styrene	ug/m3	<0.19	0.87	0.19	03/05/17 13:11	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/05/17 13:11	
Toluene	ug/m3	<0.15	0.77	0.15	03/05/17 13:11	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/05/17 13:11	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/05/17 13:11	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/05/17 13:11	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/05/17 13:11	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/05/17 13:11	

LABORATORY CONTROL SAMPLE: 2529704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.9	101	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.5	110	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	52.1	94	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	73.5	94	66-131	
1,1-Dichloroethane	ug/m3	41.1	40.2	98	62-139	
1,1-Dichloroethene	ug/m3	40.3	38.3	95	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	75.4	100	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	57.5	115	57-143	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	101	103	50-150	2M
1,2-Dibromoethane (EDB)	ug/m3	78.1	80.7	103	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	61.2	100	57-141	
1,2-Dichloroethane	ug/m3	41.1	39.9	97	61-144	
1,2-Dichloropropane	ug/m3	47	45.2	96	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	51.5	103	54-147	
1,3-Butadiene	ug/m3	22.5	21.9	97	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	64.0	105	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	68.8	113	57-143	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

LABORATORY CONTROL SAMPLE: 2529704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	35.5	97	58-144	
2-Butanone (MEK)	ug/m3	30	28.0	93	66-144	
2-Hexanone	ug/m3	104	109	105	63-147	
2-Propanol	ug/m3	125	114	91	54-146	
4-Ethyltoluene	ug/m3	50	49.5	99	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	98.2	94	58-150	
Acetone	ug/m3	121	103	86	46-140	
Allyl chloride	ug/m3	79.5	76.9	97	65-142	
Benzene	ug/m3	32.5	32.3	100	62-141	
Bromodichloromethane	ug/m3	68.1	67.7	99	58-149	
Bromoform	ug/m3	105	104	99	61-150	
Bromomethane	ug/m3	39.5	37.1	94	58-136	
Carbon disulfide	ug/m3	31.6	33.6	106	59-135	
Carbon tetrachloride	ug/m3	64	68.7	107	60-149	
Chlorobenzene	ug/m3	46.8	46.7	100	60-150	
Chlorodifluoromethane	ug/m3	36	35.6	99	70-130	
Chloroethane	ug/m3	26.8	24.2	90	61-136	
Chloroform	ug/m3	49.6	47.5	96	65-138	
Chloromethane	ug/m3	21	19.6	93	62-133	
Chloropentafluoroethane	ug/m3	64.2	38.2	60	50-150	2M,CL
cis-1,2-Dichloroethene	ug/m3	40.3	41.0	102	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	43.1	94	61-149	
Cyclohexane	ug/m3	35	33.7	96	64-134	
Dibromochloromethane	ug/m3	86.6	84.9	98	59-150	
Dichlorodifluoromethane	ug/m3	50.3	49.3	98	63-134	
Dichlorotetrafluoroethane	ug/m3	71	65.5	92	62-134	
Ethylbenzene	ug/m3	44.1	45.7	104	59-149	
Freon 123	ug/m3	63.6	49.0	77	50-150	2M
Hexachloro-1,3-butadiene	ug/m3	108	114	106	42-150	
Isopropylbenzene (Cumene)	ug/m3	50	50.6	101	65-150	
m&p-Xylene	ug/m3	88.3	90.7	103	59-146	
Methyl acetate	ug/m3	30.8	29.5	96	50-150	2M
Methyl-tert-butyl ether	ug/m3	91.6	87.7	96	64-135	
Methylcyclohexane	ug/m3	40.8	38.6	94	70-130	
Methylene Chloride	ug/m3	177	164	93	64-128	
n-Hexane	ug/m3	35.8	34.7	97	50-138	
o-Xylene	ug/m3	44.1	45.0	102	54-149	
Styrene	ug/m3	43.3	42.1	97	54-150	
Tetrachloroethene	ug/m3	68.9	68.4	99	60-142	
Toluene	ug/m3	38.3	36.7	96	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	41.9	104	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	44.1	96	59-145	
Trichloroethene	ug/m3	54.6	52.9	97	60-144	
Trichlorofluoromethane	ug/m3	57.1	52.5	92	59-134	
Vinyl chloride	ug/m3	26	24.6	95	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

SAMPLE DUPLICATE: 2530069

Parameter	Units	10380193001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.53	<0.53		25	
1,1-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<1.6	<1.6		25	
1,2,4-Trimethylbenzene	ug/m3	2.1	2.2	4	25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.6	<8.6		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4		25	
1,2-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,2-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	<0.32	<0.32		25	
1,3-Butadiene	ug/m3	<0.31	<0.31		25	
1,3-Dichlorobenzene	ug/m3	<0.93	<0.93		25	
1,4-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.62	<0.62		25	
2-Butanone (MEK)	ug/m3	14.0	14.5	3	25	
2-Hexanone	ug/m3	<0.72	<0.72		25	
2-Propanol	ug/m3	13.0	13.1	0	25	
4-Ethyltoluene	ug/m3	1.4J	1.3J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.38	<0.38		25	
Acetone	ug/m3	74.0	73.3	1	25	
Allyl chloride	ug/m3	<0.40	<0.40		25	
Benzene	ug/m3	1.5	1.5	1	25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<1.6	<1.6		25	
Bromomethane	ug/m3	<0.54	<0.54		25	
Carbon disulfide	ug/m3	<0.18	<0.18		25	
Carbon tetrachloride	ug/m3	<0.34	<0.34		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.48	<0.48		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	1.1	1.0	4	25	
Chloropentafluoroethane	ug/m3	<5.6	<5.6		25	CL
cis-1,2-Dichloroethene	ug/m3	<0.43	<0.43		25	
cis-1,3-Dichloropropene	ug/m3	<0.65	<0.65		25	
Cyclohexane	ug/m3	13.6	14.0	3	25	
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	2.1	2.1	0	25	
Dichlorotetrafluoroethane	ug/m3	<0.54	<0.54		25	
Ethylbenzene	ug/m3	32.4	32.8	1	25	
Freon 123	ug/m3	<5.6	<5.6		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.24	<0.24		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

SAMPLE DUPLICATE: 2530069

Parameter	Units	10380193001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	118	121	3	25	
Methyl acetate	ug/m3	<2.7	<2.7		25	
Methyl-tert-butyl ether	ug/m3	<0.53	<0.53		25	
Methylcyclohexane	ug/m3	8.4	8.4	1	25	
Methylene Chloride	ug/m3	6.1J	6.0J		25	
n-Hexane	ug/m3	2.4	2.6	6	25	
o-Xylene	ug/m3	29.1	30.0	3	25	
Styrene	ug/m3	1.8	1.9	3	25	
Tetrachloroethene	ug/m3	4.7	5.0	5	25	
Toluene	ug/m3	69.3	69.9	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.67	<0.67		25	
trans-1,3-Dichloropropene	ug/m3	<0.46	<0.46		25	
Trichloroethene	ug/m3	1.2	1.2	1	25	
Trichlorofluoromethane	ug/m3	1.2J	1.2J		25	
Vinyl chloride	ug/m3	<0.34	<0.34		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

QC Batch: 462794 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10380193016, 10380193017, 10380193018, 10380193019

METHOD BLANK: 2530439 Matrix: Air
Associated Lab Samples: 10380193016, 10380193017, 10380193018, 10380193019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/06/17 10:09	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/06/17 10:09	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/06/17 10:09	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/06/17 10:09	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/06/17 10:09	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/06/17 10:09	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/06/17 10:09	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/06/17 10:09	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/06/17 10:09	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/06/17 10:09	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/06/17 10:09	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/06/17 10:09	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/06/17 10:09	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/06/17 10:09	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/06/17 10:09	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/06/17 10:09	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/06/17 10:09	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/06/17 10:09	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/06/17 10:09	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/06/17 10:09	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/06/17 10:09	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/06/17 10:09	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/06/17 10:09	
Acetone	ug/m3	<0.83	2.4	0.83	03/06/17 10:09	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/06/17 10:09	
Benzene	ug/m3	<0.12	0.32	0.12	03/06/17 10:09	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/06/17 10:09	
Bromoform	ug/m3	<0.90	2.1	0.90	03/06/17 10:09	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/06/17 10:09	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/06/17 10:09	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/06/17 10:09	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/06/17 10:09	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/06/17 10:09	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/06/17 10:09	
Chloroform	ug/m3	<0.19	0.50	0.19	03/06/17 10:09	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/06/17 10:09	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/06/17 10:09	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/06/17 10:09	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/06/17 10:09	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/06/17 10:09	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/06/17 10:09	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

METHOD BLANK: 2530439 Matrix: Air
Associated Lab Samples: 10380193016, 10380193017, 10380193018, 10380193019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/06/17 10:09	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/06/17 10:09	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/06/17 10:09	
Freon 123	ug/m3	<3.2	3.2	3.2	03/06/17 10:09	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/06/17 10:09	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/06/17 10:09	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/06/17 10:09	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/06/17 10:09	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/06/17 10:09	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/06/17 10:09	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/06/17 10:09	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/06/17 10:09	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/06/17 10:09	
Styrene	ug/m3	<0.19	0.87	0.19	03/06/17 10:09	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/06/17 10:09	
Toluene	ug/m3	<0.15	0.77	0.15	03/06/17 10:09	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/06/17 10:09	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/06/17 10:09	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/06/17 10:09	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/06/17 10:09	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/06/17 10:09	

LABORATORY CONTROL SAMPLE: 2530440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.0	101	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	83.2	119	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	58.0	104	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	67.1	86	75-128	
1,1-Dichloroethane	ug/m3	41.1	37.1	90	75-127	
1,1-Dichloroethene	ug/m3	40.3	36.1	90	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	81.8	108	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	60.2	121	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	105	106		2M
1,2-Dibromoethane (EDB)	ug/m3	78.1	86.4	111	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	63.6	104	75-139	
1,2-Dichloroethane	ug/m3	41.1	41.7	101	75-130	
1,2-Dichloropropane	ug/m3	47	50.4	107	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	54.8	110	75-133	
1,3-Butadiene	ug/m3	22.5	21.5	96	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	66.9	109	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	72.6	119	75-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	40.3	110	65-149	
2-Butanone (MEK)	ug/m3	30	26.0	87	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

LABORATORY CONTROL SAMPLE: 2530440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	123	118	75-138	
2-Propanol	ug/m3	125	109	87	75-127	
4-Ethyltoluene	ug/m3	50	53.3	107	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	114	109	75-130	
Acetone	ug/m3	121	99.4	82	64-129	
Allyl chloride	ug/m3	79.5	68.7	86	60-147	
Benzene	ug/m3	32.5	35.0	108	75-129	
Bromodichloromethane	ug/m3	68.1	73.8	108	75-134	
Bromoform	ug/m3	105	107	102	75-150	
Bromomethane	ug/m3	39.5	35.5	90	75-127	
Carbon disulfide	ug/m3	31.6	31.0	98	75-134	
Carbon tetrachloride	ug/m3	64	67.3	105	68-150	
Chlorobenzene	ug/m3	46.8	50.0	107	75-132	
Chlorodifluoromethane	ug/m3	36	38.1	106	67-134	
Chloroethane	ug/m3	26.8	23.7	88	75-132	
Chloroform	ug/m3	49.6	53.3	107	75-125	
Chloromethane	ug/m3	21	22.3	106	75-126	
Chloropentafluoroethane	ug/m3	64.2	106	165		2M,CH
cis-1,2-Dichloroethene	ug/m3	40.3	37.7	94	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	46.8	102	75-137	
Cyclohexane	ug/m3	35	36.6	105	75-126	
Dibromochloromethane	ug/m3	86.6	89.3	103	75-144	
Dichlorodifluoromethane	ug/m3	50.3	53.2	106	75-129	
Dichlorotetrafluoroethane	ug/m3	71	71.6	101	75-125	
Ethylbenzene	ug/m3	44.1	49.1	111	75-134	
Freon 123	ug/m3	63.6	49.4	78		2M
Hexachloro-1,3-butadiene	ug/m3	108	124	114	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	53.6	107	75-140	
m&p-Xylene	ug/m3	88.3	96.3	109	75-129	
Methyl acetate	ug/m3	30.8	27.1	88		2M
Methyl-tert-butyl ether	ug/m3	91.6	80.8	88	66-148	
Methylcyclohexane	ug/m3	40.8	43.9	108	73-137	
Methylene Chloride	ug/m3	177	152	86	67-133	
n-Hexane	ug/m3	35.8	32.7	91	67-132	
o-Xylene	ug/m3	44.1	48.4	110	75-129	
Styrene	ug/m3	43.3	44.8	103	75-139	
Tetrachloroethene	ug/m3	68.9	71.4	104	75-129	
Toluene	ug/m3	38.3	40.6	106	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	38.0	94	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	47.7	103	75-142	
Trichloroethene	ug/m3	54.6	58.1	106	75-128	
Trichlorofluoromethane	ug/m3	57.1	48.5	85	75-127	
Vinyl chloride	ug/m3	26	24.8	96	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

SAMPLE DUPLICATE: 2530739

Parameter	Units	10380602001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.40	<0.40		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.53	<0.53		25	
1,1,2-Trichloroethane	ug/m3	<0.40	<0.40		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.48	0.64J		25	
1,1-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,1-Dichloroethene	ug/m3	<0.38	<0.38		25	
1,2,4-Trichlorobenzene	ug/m3	<1.5	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	6.3	6.3	1	25	
1,2-Dibromo-3-chloropropane	ug/m3	<7.9	<7.9		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.2	<1.2		25	
1,2-Dichlorobenzene	ug/m3	<0.82	<0.82		25	
1,2-Dichloroethane	ug/m3	<0.33	<0.33		25	
1,2-Dichloropropane	ug/m3	<0.43	<0.43		25	
1,3,5-Trimethylbenzene	ug/m3	1.9	1.9	1	25	
1,3-Butadiene	ug/m3	<0.28	<0.28		25	
1,3-Dichlorobenzene	ug/m3	<0.85	<0.85		25	
1,4-Dichlorobenzene	ug/m3	<0.80	<0.80		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.57	<0.57		25	
2-Butanone (MEK)	ug/m3	<0.37	3.7J		25	
2-Hexanone	ug/m3	<0.66	<0.66		25	
2-Propanol	ug/m3	<0.39	<0.39		25	
4-Ethyltoluene	ug/m3	2.8	2.8	0	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.35	<0.35		25	
Acetone	ug/m3	46.1	44.2	4	25	
Allyl chloride	ug/m3	<0.37	<0.37		25	
Benzene	ug/m3	10.1	9.5	6	25	
Bromodichloromethane	ug/m3	<0.31	<0.31		25	
Bromoform	ug/m3	<1.5	<1.5		25	
Bromomethane	ug/m3	<0.50	<0.50		25	
Carbon disulfide	ug/m3	1.3	1.3	3	25	
Carbon tetrachloride	ug/m3	<0.31	<0.31		25	
Chlorobenzene	ug/m3	<0.22	<0.22		25	
Chlorodifluoromethane	ug/m3	1.1J	1.0J		25	
Chloroethane	ug/m3	<0.31	<0.31		25	
Chloroform	ug/m3	1.7	1.8	4	25	
Chloromethane	ug/m3	<0.17	<0.17		25	
Chloropentafluoroethane	ug/m3	<5.2	<5.2		25	
cis-1,2-Dichloroethene	ug/m3	<0.40	<0.40		25	
cis-1,3-Dichloropropene	ug/m3	<0.59	<0.59		25	
Cyclohexane	ug/m3	531	488	8	25	E
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	2.0	2.2	9	25	
Dichlorotetrafluoroethane	ug/m3	<0.50	<0.50		25	
Ethylbenzene	ug/m3	4.9	4.8	3	25	
Freon 123	ug/m3	<5.1	<5.1		25	
Hexachloro-1,3-butadiene	ug/m3	<1.0	<1.0		25	
Isopropylbenzene (Cumene)	ug/m3	<0.22	<0.22		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

SAMPLE DUPLICATE: 2530739

Parameter	Units	10380602001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	16.2	16.3	1	25	
Methyl acetate	ug/m3	<2.5	<2.5		25	
Methyl-tert-butyl ether	ug/m3	<0.49	<0.49		25	
Methylcyclohexane	ug/m3	185	168	10	25	
Methylene Chloride	ug/m3	22.2	22.1	1	25	
n-Hexane	ug/m3	900	830	8	25	E
o-Xylene	ug/m3	5.7	5.6	2	25	
Styrene	ug/m3	0.80J	0.76J		25	
Tetrachloroethene	ug/m3	4.2	4.1	2	25	
Toluene	ug/m3	35.2	35.4	0	25	
trans-1,2-Dichloroethene	ug/m3	<0.62	<0.62		25	
trans-1,3-Dichloropropene	ug/m3	<0.42	<0.42		25	
Trichloroethene	ug/m3	9.5	9.7	3	25	
Trichlorofluoromethane	ug/m3	1.2J	1.2J		25	
Vinyl chloride	ug/m3	<0.31	<0.31		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

QC Batch: 462987 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10380193014, 10380193015

METHOD BLANK: 2531281 Matrix: Air
Associated Lab Samples: 10380193014, 10380193015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/07/17 09:56	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/07/17 09:56	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/07/17 09:56	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/07/17 09:56	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/07/17 09:56	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/07/17 09:56	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/07/17 09:56	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/07/17 09:56	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/07/17 09:56	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/07/17 09:56	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/07/17 09:56	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/07/17 09:56	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/07/17 09:56	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/07/17 09:56	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/07/17 09:56	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/07/17 09:56	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/07/17 09:56	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/07/17 09:56	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/07/17 09:56	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/07/17 09:56	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/07/17 09:56	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/07/17 09:56	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/07/17 09:56	
Acetone	ug/m3	<0.83	2.4	0.83	03/07/17 09:56	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/07/17 09:56	
Benzene	ug/m3	<0.12	0.32	0.12	03/07/17 09:56	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/07/17 09:56	
Bromoform	ug/m3	<0.90	2.1	0.90	03/07/17 09:56	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/07/17 09:56	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/07/17 09:56	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/07/17 09:56	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/07/17 09:56	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/07/17 09:56	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/07/17 09:56	
Chloroform	ug/m3	<0.19	0.50	0.19	03/07/17 09:56	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/07/17 09:56	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/07/17 09:56	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/07/17 09:56	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/07/17 09:56	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/07/17 09:56	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/07/17 09:56	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

METHOD BLANK: 2531281 Matrix: Air
Associated Lab Samples: 10380193014, 10380193015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/07/17 09:56	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/07/17 09:56	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/07/17 09:56	
Freon 123	ug/m3	<3.2	3.2	3.2	03/07/17 09:56	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/07/17 09:56	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/07/17 09:56	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/07/17 09:56	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/07/17 09:56	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/07/17 09:56	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/07/17 09:56	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/07/17 09:56	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/07/17 09:56	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/07/17 09:56	
Styrene	ug/m3	<0.19	0.87	0.19	03/07/17 09:56	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/07/17 09:56	
Toluene	ug/m3	<0.15	0.77	0.15	03/07/17 09:56	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/07/17 09:56	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/07/17 09:56	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/07/17 09:56	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/07/17 09:56	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/07/17 09:56	

LABORATORY CONTROL SAMPLE: 2531282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.4	107	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	81.0	116	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	59.2	107	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	76.9	99	75-128	
1,1-Dichloroethane	ug/m3	41.1	40.1	97	75-127	
1,1-Dichloroethene	ug/m3	40.3	38.8	96	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	81.5	108	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	60.8	122	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	109	111		2M
1,2-Dibromoethane (EDB)	ug/m3	78.1	87.7	112	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	66.6	109	75-139	
1,2-Dichloroethane	ug/m3	41.1	42.0	102	75-130	
1,2-Dichloropropane	ug/m3	47	49.2	105	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	55.4	111	75-133	
1,3-Butadiene	ug/m3	22.5	22.2	99	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	70.2	115	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	75.7	124	75-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	40.9	112	65-149	
2-Butanone (MEK)	ug/m3	30	28.9	96	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

LABORATORY CONTROL SAMPLE: 2531282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	116	112	75-138	
2-Propanol	ug/m3	125	121	97	75-127	
4-Ethyltoluene	ug/m3	50	53.9	108	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	109	105	75-130	
Acetone	ug/m3	121	105	87	64-129	
Allyl chloride	ug/m3	79.5	78.5	99	60-147	
Benzene	ug/m3	32.5	34.2	105	75-129	
Bromodichloromethane	ug/m3	68.1	76.0	112	75-134	
Bromoform	ug/m3	105	120	114	75-150	
Bromomethane	ug/m3	39.5	38.6	98	75-127	
Carbon disulfide	ug/m3	31.6	34.3	109	75-134	
Carbon tetrachloride	ug/m3	64	72.8	114	68-150	
Chlorobenzene	ug/m3	46.8	52.3	112	75-132	
Chlorodifluoromethane	ug/m3	36	38.1	106	67-134	
Chloroethane	ug/m3	26.8	24.8	92	75-132	
Chloroform	ug/m3	49.6	46.1	93	75-125	
Chloromethane	ug/m3	21	21.0	100	75-126	
Chloropentafluoroethane	ug/m3	64.2	68.6	107		1M
cis-1,2-Dichloroethene	ug/m3	40.3	42.1	105	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	47.6	103	75-137	
Cyclohexane	ug/m3	35	35.5	102	75-126	
Dibromochloromethane	ug/m3	86.6	97.0	112	75-144	
Dichlorodifluoromethane	ug/m3	50.3	54.1	108	75-129	
Dichlorotetrafluoroethane	ug/m3	71	73.3	103	75-125	
Ethylbenzene	ug/m3	44.1	51.0	115	75-134	
Freon 123	ug/m3	63.6	56.8	89		1M
Hexachloro-1,3-butadiene	ug/m3	108	131	121	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	55.9	112	75-140	
m&p-Xylene	ug/m3	88.3	99.7	113	75-129	
Methyl acetate	ug/m3	30.8	29.8	97		1M
Methyl-tert-butyl ether	ug/m3	91.6	93.1	102	66-148	
Methylcyclohexane	ug/m3	40.8	43.8	107	73-137	
Methylene Chloride	ug/m3	177	160	91	67-133	
n-Hexane	ug/m3	35.8	34.7	97	67-132	
o-Xylene	ug/m3	44.1	50.0	113	75-129	
Styrene	ug/m3	43.3	46.2	107	75-139	
Tetrachloroethene	ug/m3	68.9	78.3	114	75-129	
Toluene	ug/m3	38.3	41.6	109	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	42.4	105	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	48.9	106	75-142	
Trichloroethene	ug/m3	54.6	61.4	112	75-128	
Trichlorofluoromethane	ug/m3	57.1	55.0	96	75-127	
Vinyl chloride	ug/m3	26	26.1	100	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

SAMPLE DUPLICATE: 2531695

Parameter	Units	10380193014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.53	<0.53		25	
1,1-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<1.6	<1.6		25	
1,2,4-Trimethylbenzene	ug/m3	1.1J	1.1J		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.6	<8.6		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4		25	
1,2-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,2-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	<0.32	<0.32		25	
1,3-Butadiene	ug/m3	<0.31	<0.31		25	
1,3-Dichlorobenzene	ug/m3	<0.93	<0.93		25	
1,4-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.62	<0.62		25	
2-Butanone (MEK)	ug/m3	<0.40	<0.40		25	
2-Hexanone	ug/m3	<0.72	<0.72		25	
2-Propanol	ug/m3	<0.42	<0.42		25	
4-Ethyltoluene	ug/m3	1.2J	1.1J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.38	<0.38		25	
Acetone	ug/m3	13.0	13.8	6	25	
Allyl chloride	ug/m3	<0.40	<0.40		25	
Benzene	ug/m3	3.2	3.2	3	25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<1.6	<1.6		25	
Bromomethane	ug/m3	<0.54	<0.54		25	
Carbon disulfide	ug/m3	<0.18	<0.18		25	
Carbon tetrachloride	ug/m3	<0.34	<0.34		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.48	<0.48		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	<0.19	<0.19		25	
Chloropentafluoroethane	ug/m3	<5.6	<5.6		25	
cis-1,2-Dichloroethene	ug/m3	<0.43	<0.43		25	
cis-1,3-Dichloropropene	ug/m3	<0.65	<0.65		25	
Cyclohexane	ug/m3	120	280	2	25	E
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	2.2	2.1	2	25	
Dichlorotetrafluoroethane	ug/m3	<0.54	<0.54		25	
Ethylbenzene	ug/m3	1.1J	1.2J		25	
Freon 123	ug/m3	<5.6	<5.6		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.24	<0.24		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

SAMPLE DUPLICATE: 2531695

Parameter	Units	10380193014 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	5.1	5.2	2	25	
Methyl acetate	ug/m3	<2.7	<2.7		25	
Methyl-tert-butyl ether	ug/m3	<0.53	<0.53		25	
Methylcyclohexane	ug/m3	85.5	85.7	0	25	
Methylene Chloride	ug/m3	3.3J	3.2J		25	
n-Hexane	ug/m3	293	573	3	25	E
o-Xylene	ug/m3	1.2J	1.2J		25	
Styrene	ug/m3	0.82J	0.81J		25	
Tetrachloroethene	ug/m3	8.9	8.9	0	25	
Toluene	ug/m3	14.8	15.1	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.67	<0.67		25	
trans-1,3-Dichloropropene	ug/m3	<0.46	<0.46		25	
Trichloroethene	ug/m3	4.8	4.5	8	25	
Trichlorofluoromethane	ug/m3	1.2J	1.4J		25	
Vinyl chloride	ug/m3	<0.34	<0.34		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Report Date: 07-Mar-2017 15:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Lab Smp Id: 2529703
Inj Date : 05-MAR-2017 13:11
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Report Date: 07-Mar-2017 15:01

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppbv)	(ppbv)	
	24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25	Methylene chloride	49	Compound Not Detected.						(D)
	26	Allyl Chloride	76	Compound Not Detected.						
	27	Carbon Disulfide	76	Compound Not Detected.						
	28	trans-1,2-dichloroethene	96	Compound Not Detected.						
	29	Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30	Vinyl Acetate	43	Compound Not Detected.						
	31	1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32	Hexane-d14(S)	66	4.478	4.481	(0.800)	420704	9.66527	9.67	
	33	Methyl Ethyl Ketone	72	Compound Not Detected.						
	34	n-Hexane	57	Compound Not Detected.						
	35	Di-isopropyl Ether	45	Compound Not Detected.						
	36	Ethyl Acetate	43	Compound Not Detected.						
	37	cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38	Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39	Chloroform	83	Compound Not Detected.						
	40	Tetrahydrofuran	42	Compound Not Detected.						
	41	1,1,1-Trichloroethane	97	Compound Not Detected.						
	42	1,2-Dichloroethane	62	Compound Not Detected.						
	43	Benzene	78	Compound Not Detected.						
	44	Carbon tetrachloride	117	Compound Not Detected.						
	45	Cyclohexane	56	Compound Not Detected.						
	46	Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47	1,4-Difluorobenzene	114	5.597	5.610	(1.000)	1368126	10.0000		
	48	2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49	Heptane	43	Compound Not Detected.						
	50	1,2-Dichloropropane	63	Compound Not Detected.						
	51	Trichloroethene	130	Compound Not Detected.						
	52	Methyl methacrylate	69	Compound Not Detected.						
	53	1,4-Dioxane	88	Compound Not Detected.						
	54	Bromodichloromethane	83	Compound Not Detected.						
	55	Methylcyclohexane	98	Compound Not Detected.						
	56	Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57	cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58	trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59	Toluene-d8 (S)	98	7.069	7.076	(1.263)	1167923	9.53788	9.54	
	60	1,1,2-Trichloroethane	97	Compound Not Detected.						
	61	Toluene	91	Compound Not Detected.						
	62	Methyl Butyl Ketone	43	Compound Not Detected.						
	63	n-Octane	43	Compound Not Detected.						
	64	Dibromochloromethane	129	Compound Not Detected.						
	65	1,2-Dibromoethane	107	Compound Not Detected.						
	66	Tetrachloroethene	166	Compound Not Detected.						
*	67	Chlorobenzene - d5	117	8.639	8.645	(1.000)	883486	10.0000		
	68	Chlorobenzene	112	Compound Not Detected.						
	69	Ethyl Benzene	91	Compound Not Detected.						
	70	m&p-Xylene	91	Compound Not Detected.						
	71	n-Nonane	43	Compound Not Detected.						
	72	Bromoform	173	Compound Not Detected.						
	73	Styrene	104	Compound Not Detected.						
	74	o-Xylene	91	Compound Not Detected.						
	75	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76	Isopropylbenzene	105	Compound Not Detected.						
	77	N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Report Date: 07-Mar-2017 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	448752	9.22063	9.22
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Report Date: 07-Mar-2017 15:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06409_27839.D
Lab Smp Id: 2529703
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

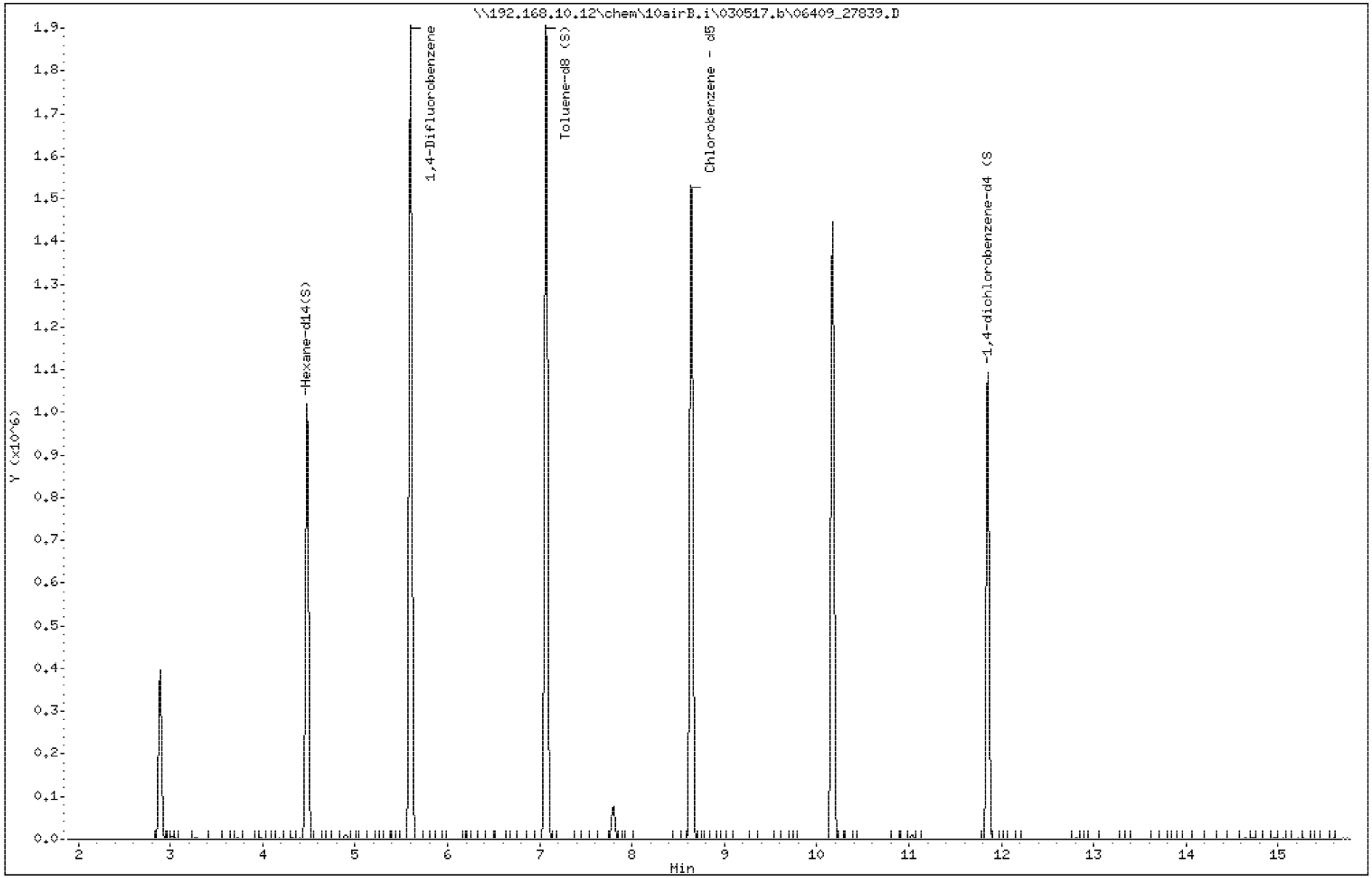
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1368126	-3.25
67 Chlorobenzene - d	951026	570616	1331436	883486	-7.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Date : 05-MAR-2017 13:11
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b/06409.D
Injection Date: 05-MAR-2017 13:11
Instrument: 10airB.i
Lab Sample ID: CERT
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06504_27846.D
Report Date: 07-Mar-2017 11:51

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06504_27846.D
Lab Smp Id: 2530439
Inj Date : 06-MAR-2017 10:09
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27846
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 09:17 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06504_27846.D
Report Date: 07-Mar-2017 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.801)	380095	8.78459	8.78	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1359985	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						(D)
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.079	(1.262)	1171955	9.62810	9.63	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	894111	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06504_27846.D
Report Date: 07-Mar-2017 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	460415	9.34786	9.35	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						(D)
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06504_27846.D
Report Date: 07-Mar-2017 11:51

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06504_27846.D
Lab Smp Id: 2530439
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27846

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

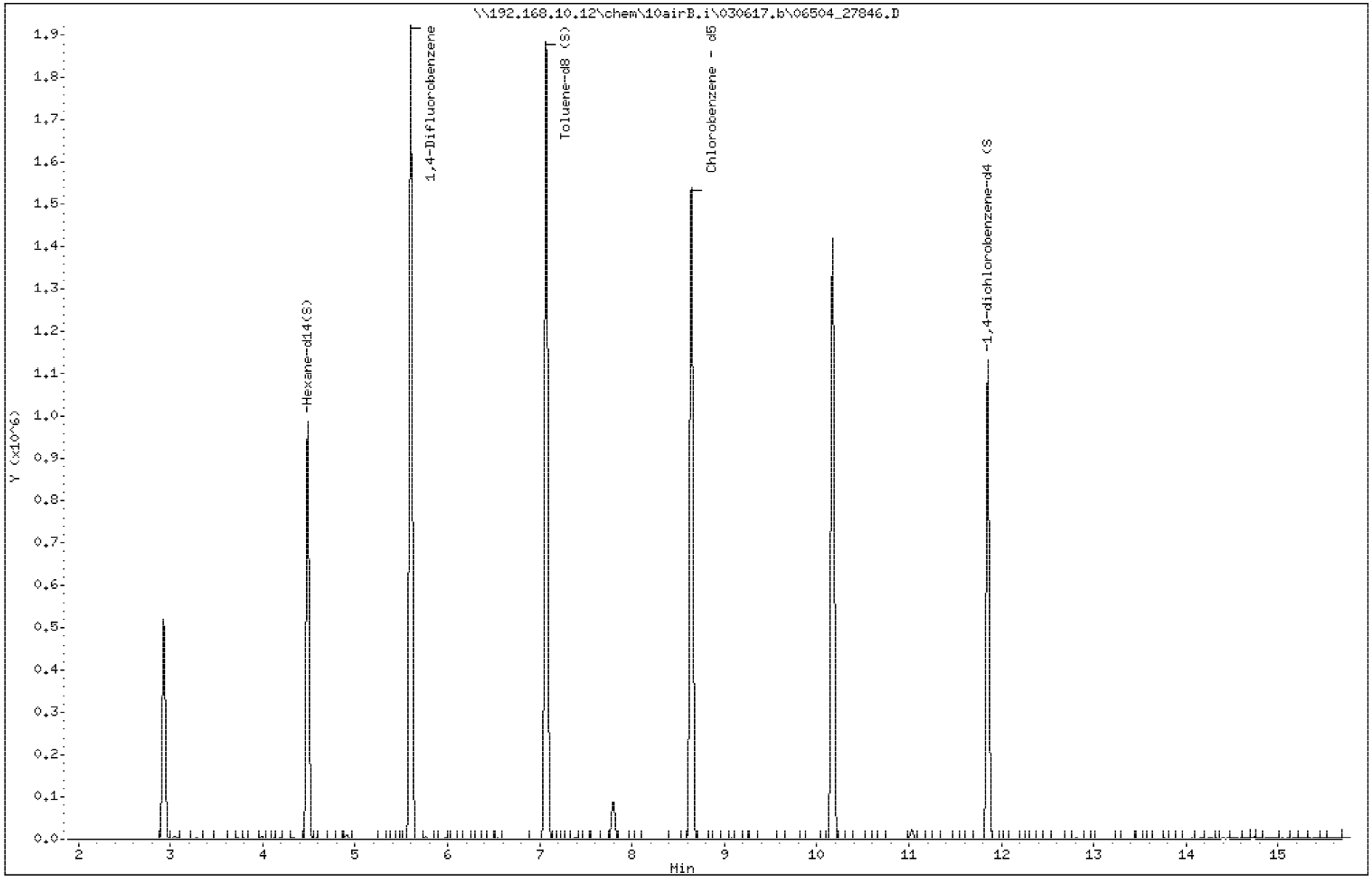
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1359985	-3.83
67 Chlorobenzene - d	951026	570616	1331436	894111	-5.98

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06504_27846.D
Date : 06-MAR-2017 10:09
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030617.b/06504.D
Injection Date: 06-MAR-2017 10:09
Instrument: 10airB.i
Lab Sample ID: cert
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06604_27858.D
Report Date: 08-Mar-2017 09:27

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030717.b\06604_27858.D
Lab Smp Id: 2531281
Inj Date : 07-MAR-2017 09:56
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27858
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Meth Date : 08-Mar-2017 09:09 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06604_27858.D
Report Date: 08-Mar-2017 09:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.481	(0.801)	370616	8.67308	8.67	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1343118	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						(D)
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1147353	9.54435	9.54	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	880519	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06604_27858.D
Report Date: 08-Mar-2017 09:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	472938	9.75033	9.75
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06604_27858.D
Report Date: 08-Mar-2017 09:27

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06604_27858.D
Lab Smp Id: 253128I
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Misc Info: 27858

Calibration Date: 07-MAR-2017
Calibration Time: 08:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

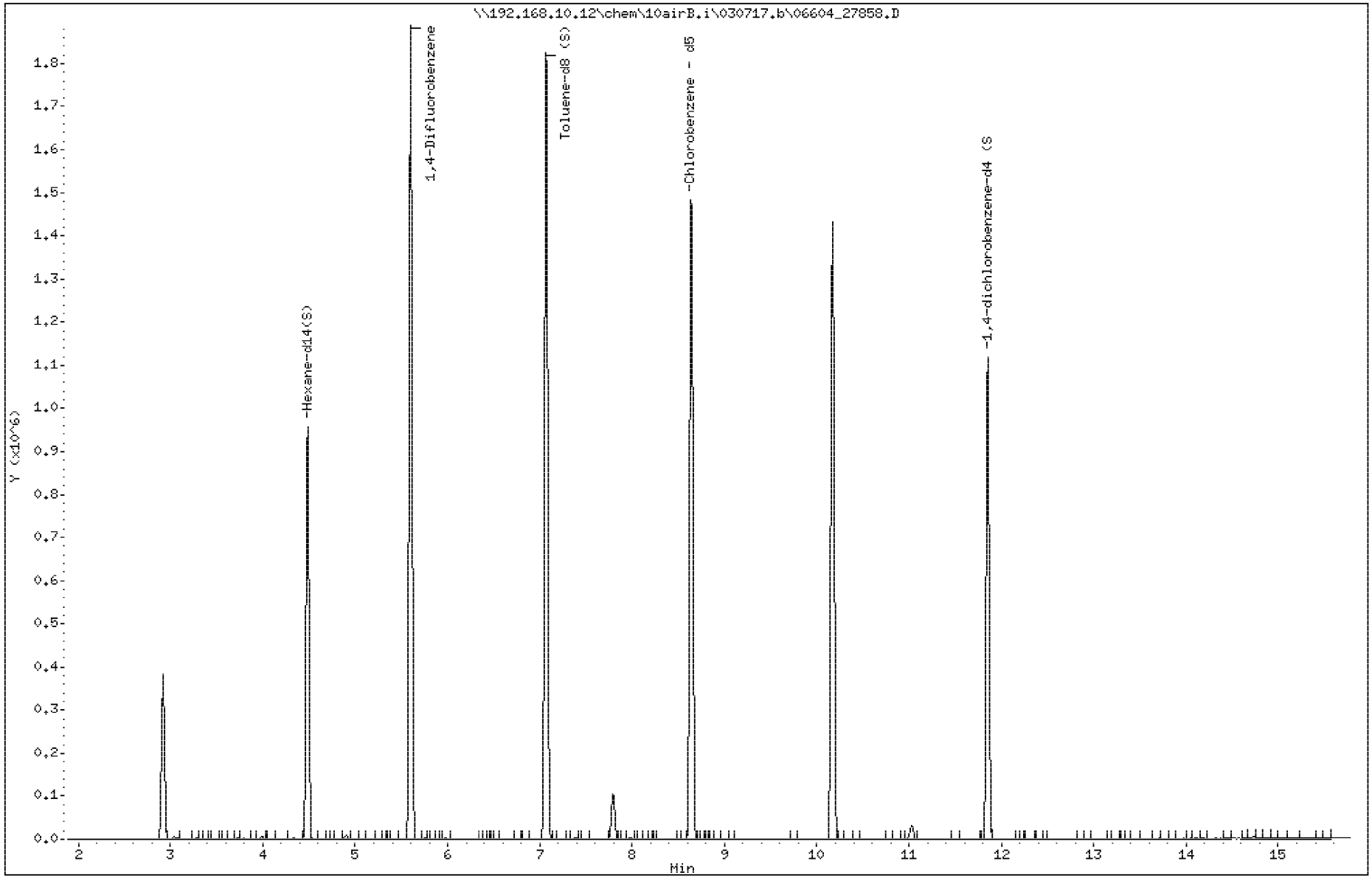
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1343118	-5.02
67 Chlorobenzene - d	951026	570616	1331436	880519	-7.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06604_27858.D
Date : 07-MAR-2017 09:56
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030717.b/06604.D
Injection Date: 07-MAR-2017 09:56
Instrument: 10airB.i
Lab Sample ID: cert
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Report Date: 07-Mar-2017 15:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Lab Smp Id: 2529704
Inj Date : 05-MAR-2017 09:36
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.906	2.906	(0.518)	61853	5.95094	5.95
2	1,1-Difluoroethane	65	2.979	2.979	(0.531)	80881	9.70113	9.70
3	Chlorodifluoromethane	67	2.989	2.989	(0.533)	39537	9.89362	9.89
4	Propylene	41	2.989	2.989	(0.533)	93322	8.79567	8.80
5	Dichlorodifluoromethane	85	3.021	3.021	(0.539)	396554	9.81287	9.81
6	Chloromethane	50	3.124	3.124	(0.557)	152709	9.34617	9.35
7	Dichlorotetrafluoroethane	85	3.134	3.134	(0.559)	363783	9.21411	9.21
8	Vinyl chloride	62	3.201	3.201	(0.571)	133643	9.46835	9.47
9	1,3-Butadiene	54	3.246	3.246	(0.579)	100207	9.74790	9.75
10	Bromomethane	94	3.381	3.381	(0.603)	122753	9.40077	9.40
11	Chloroethane	64	3.443	3.443	(0.614)	58565	9.02327	9.02
12	Ethanol	45	3.542	3.542	(0.631)	227246	43.4894	43.5
13	Vinyl Bromide	106	3.561	3.561	(0.635)	127636	9.43686	9.44
14	Isopentane	43	3.578	3.578	(0.638)	138770	9.68376	9.68
15	Freon 123	83	3.587	3.587	(0.639)	116046	7.70672	7.71
16	Trichlorofluoromethane	101	3.655	3.655	(0.652)	358608	9.19799	9.20
17	Acrolein	56	3.674	3.674	(0.655)	124215	23.5005	23.5
18	Acetone	43	3.713	3.713	(0.662)	965079	42.7714	42.8
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	1050352	45.6440	45.6
20	1,1-Dichloroethene	61	3.896	3.896	(0.695)	215505	9.50425	9.50
21	Acrylonitrile	53	3.925	3.925	(0.700)	256889	24.6390	24.6
22	Freon 113	101	3.934	3.934	(0.701)	277630	9.42989	9.43
23	Methyl Acetate	43	3.951	3.951	(0.704)	328938	9.57513	9.58

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Report Date: 07-Mar-2017 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.951	3.951	(0.704)	716691	24.2273	24.2
	25 Methylene chloride	49	3.992	3.992	(0.712)	737643	46.3180	46.3
	26 Allyl Chloride	76	4.005	4.005	(0.714)	134194	24.1661	24.2
	27 Carbon Disulfide	76	4.108	4.108	(0.732)	318108	10.6061	10.6
	28 trans-1,2-dichloroethene	96	4.269	4.269	(0.761)	132198	10.3911	10.4
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.767)	867421	23.9175	23.9
	30 Vinyl Acetate	43	4.385	4.385	(0.782)	357151	9.41597	9.42
	31 1,1-Dichloroethane	63	4.407	4.407	(0.786)	242193	9.77320	9.77
$	32 Hexane-d14(S)	66	4.481	4.481	(0.799)	445940	9.85626	9.86
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.811)	62672	9.32700	9.33
	34 n-Hexane	57	4.578	4.578	(0.816)	219567	9.68228	9.68(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.820)	422031	9.59601	9.60
	36 Ethyl Acetate	43	4.713	4.713	(0.840)	280134	9.59824	9.60
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	144620	10.1742	10.2
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.860)	1045459	22.7036	22.7
	39 Chloroform	83	4.838	4.838	(0.862)	282025	9.57266	9.57
	40 Tetrahydrofuran	42	4.989	4.989	(0.889)	146640	9.31188	9.31
	41 1,1,1-Trichloroethane	97	5.227	5.227	(0.932)	349436	10.0819	10.1
	42 1,2-Dichloroethane	62	5.233	5.233	(0.933)	255013	9.69898	9.70
	43 Benzene	78	5.465	5.465	(0.974)	456629	9.95625	9.96
	44 Carbon tetrachloride	117	5.484	5.484	(0.978)	371966	10.7385	10.7
	45 Cyclohexane	56	5.484	5.484	(0.978)	221130	9.63152	9.63
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.999)	422988	9.42662	9.43
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	1422092	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.767	(1.028)	1720030	24.2128	24.2
	49 Heptane	43	5.889	5.889	(1.050)	244948	9.55818	9.56
	50 1,2-Dichloropropane	63	5.963	5.963	(1.063)	160000	9.63106	9.63
	51 Trichloroethene	130	5.986	5.986	(1.067)	231513	9.68925	9.69
	52 Methyl methacrylate	69	6.040	6.040	(1.077)	150776	9.70176	9.70
	53 1,4-Dioxane	88	6.063	6.063	(1.081)	103802	9.68729	9.69
	54 Bromodichloromethane	83	6.082	6.082	(1.084)	336521	9.93960	9.94
	55 Methylcyclohexane	98	6.430	6.430	(1.146)	122127	9.44647	9.45
	56 Methyl Isobutyl Ketone	43	6.526	6.526	(1.163)	825159	23.5897	23.6
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	266697	9.35091	9.35
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	250708	9.56218	9.56
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1194198	9.38236	9.38
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	179305	9.40090	9.40
	61 Toluene	91	7.153	7.153	(1.275)	549623	9.56930	9.57
	62 Methyl Butyl Ketone	43	7.368	7.368	(0.852)	807218	26.2022	26.2
	63 n-Octane	43	7.584	7.584	(0.877)	320189	9.59697	9.60
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	376841	9.80152	9.80
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	325489	10.3387	10.3
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	336043	9.92144	9.92
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	975415	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	482830	9.98023	9.98
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	743401	10.3621	10.4
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1157009	20.5474	20.5
	71 n-Nonane	43	9.468	9.468	(1.095)	332289	11.4412	11.4
	72 Bromoform	173	9.481	9.481	(1.097)	365698	9.85964	9.86
	73 Styrene	104	9.507	9.507	(1.100)	464058	9.73387	9.73
	74 o-Xylene	91	9.581	9.581	(1.108)	584045	10.1951	10.2
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	346022	10.9616	11.0
	76 Isopropylbenzene	105	10.162	10.162	(1.176)	821136	10.1277	10.1
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	932866	10.1691	10.2

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Report Date: 07-Mar-2017 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	826397	9.91522	9.92
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	707961	10.3025	10.3
80	n-Decane	57	11.378	11.378	(2.028)	365391	10.0561	10.1
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	729576	11.2641	11.3
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	666942	11.5103	11.5
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	430925	10.4657	10.5
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	934339	11.5131	11.5
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	607225	11.3009	11.3(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	443390	10.0916	10.1
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	427376	11.2592	11.3
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	800227	10.3283	10.3
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	650323	11.3681	11.4
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	401062	10.0162	10.0
91	N-Butylbenzene	91	12.461	12.461	(1.441)	625873	10.5236	10.5
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	160243	10.3069	10.3
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.623)	165012	9.99354	9.99
94	Naphthalene	128	14.169	14.169	(1.639)	379174	9.63840	9.64
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	178756	10.5611	10.6

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Report Date: 07-Mar-2017 15:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06402_27839.D
Lab Smp Id: 2529704
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

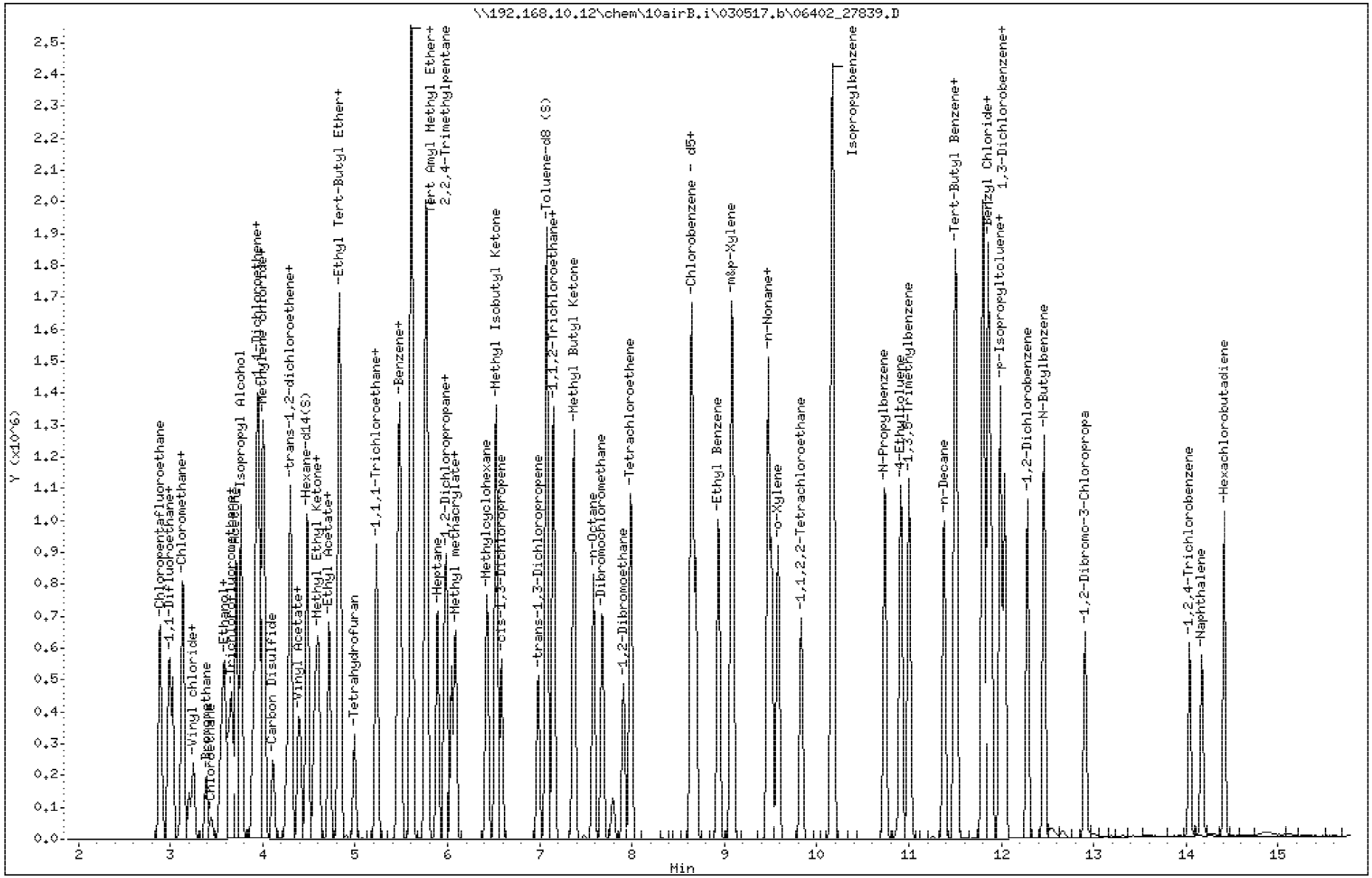
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1422092	0.56
67 Chlorobenzene - d	951026	570616	1331436	975415	2.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

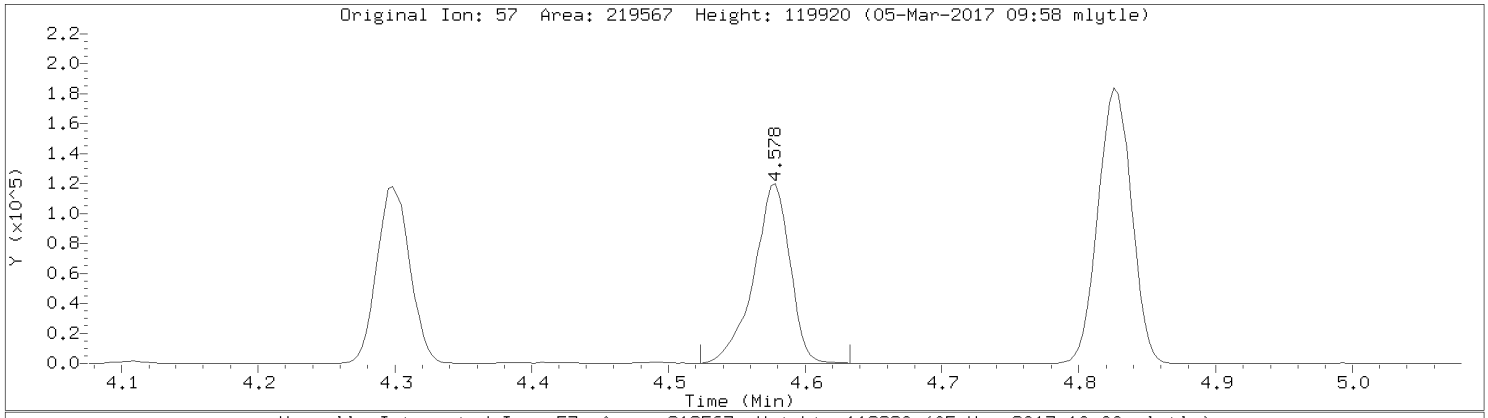
Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Date : 05-MAR-2017 09:36
Client ID:
Sample Info:

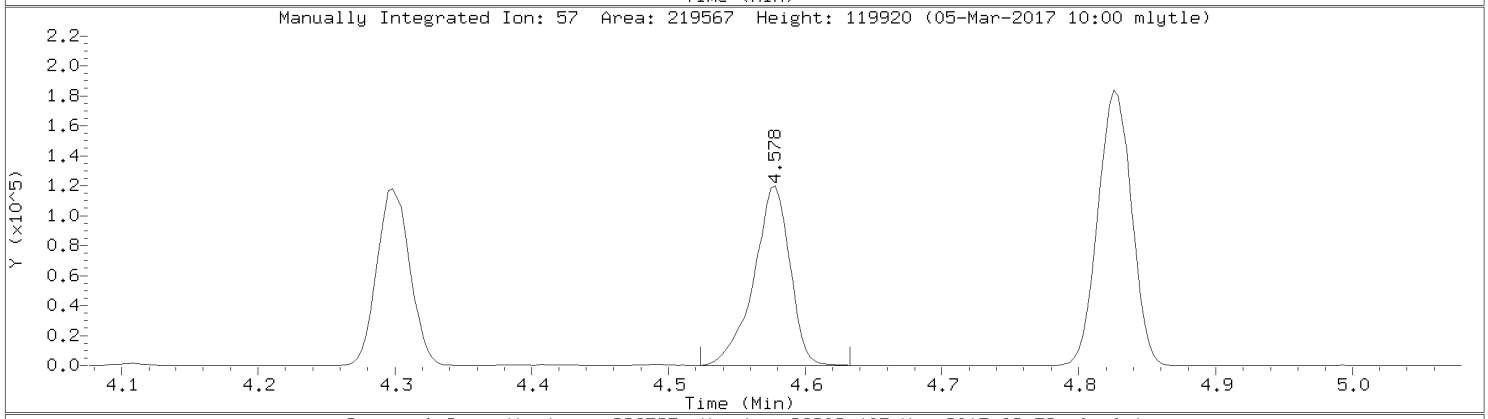
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

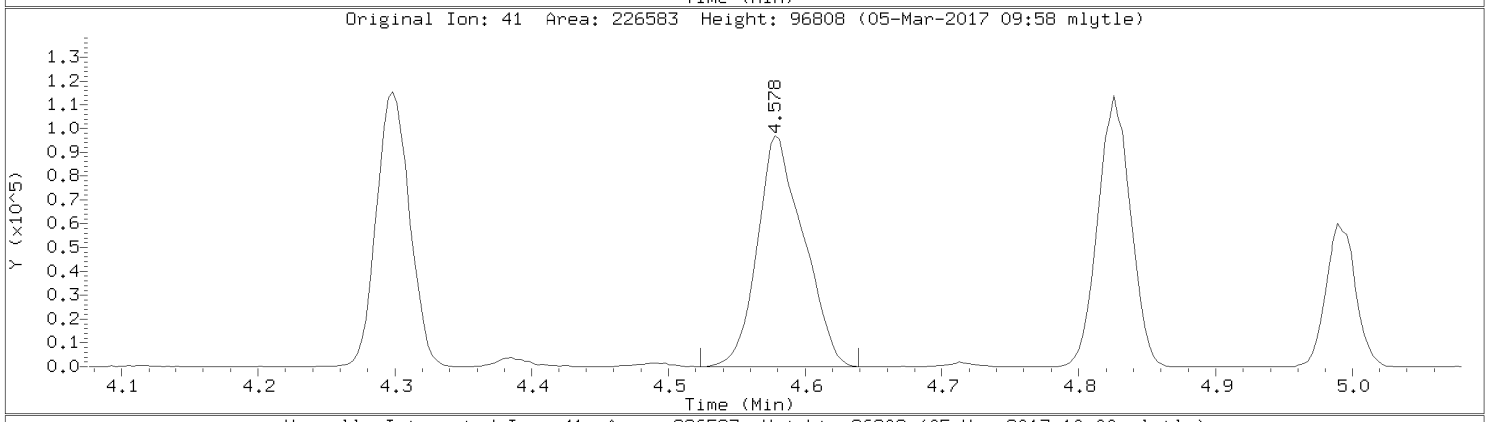


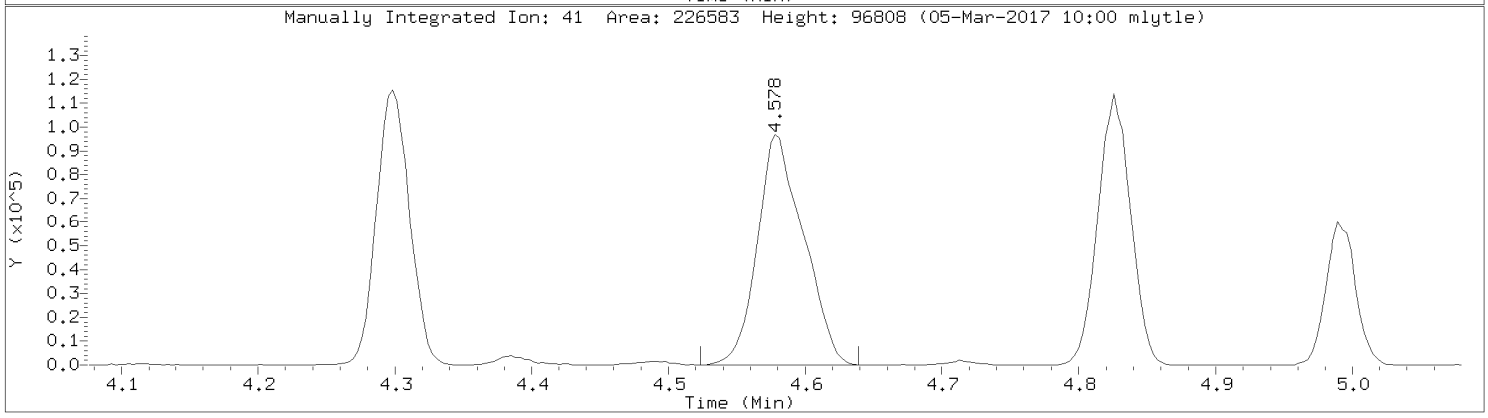
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

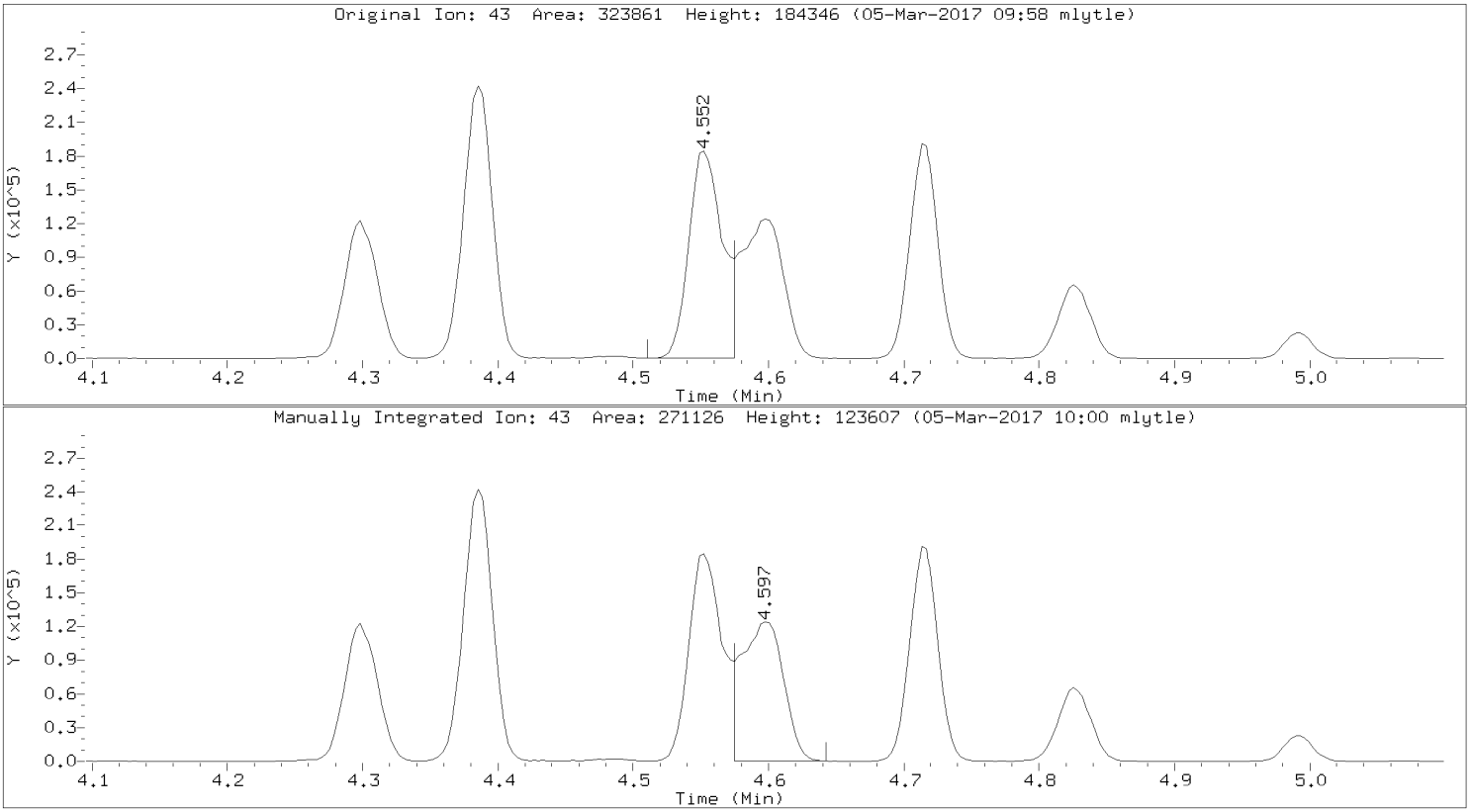






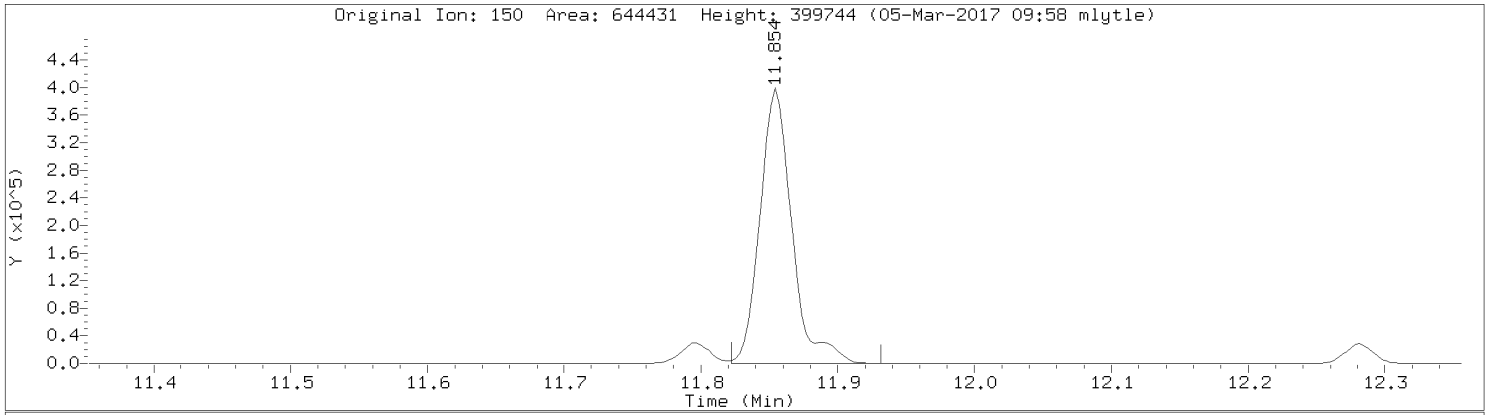


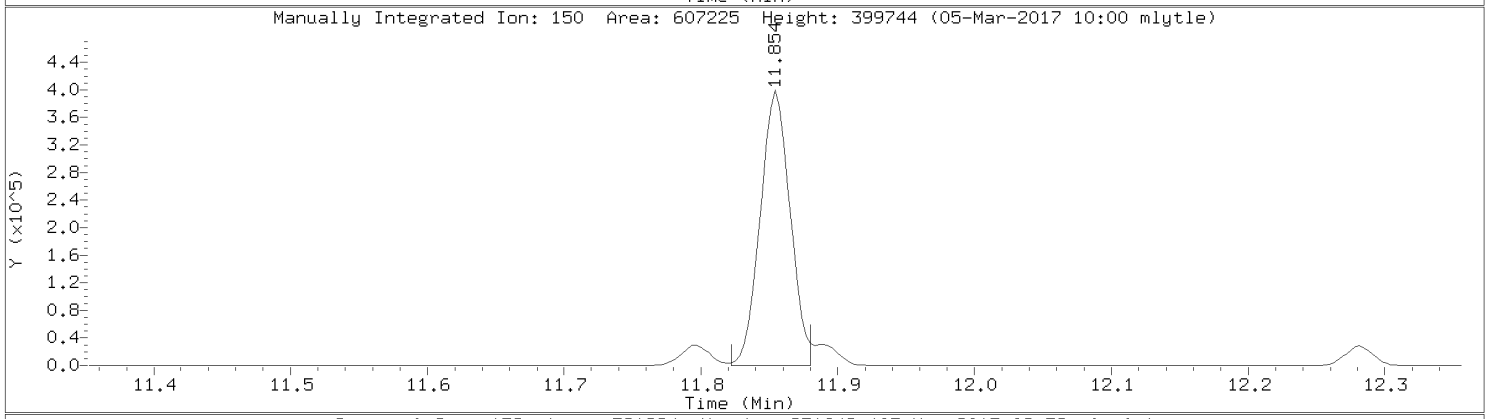
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

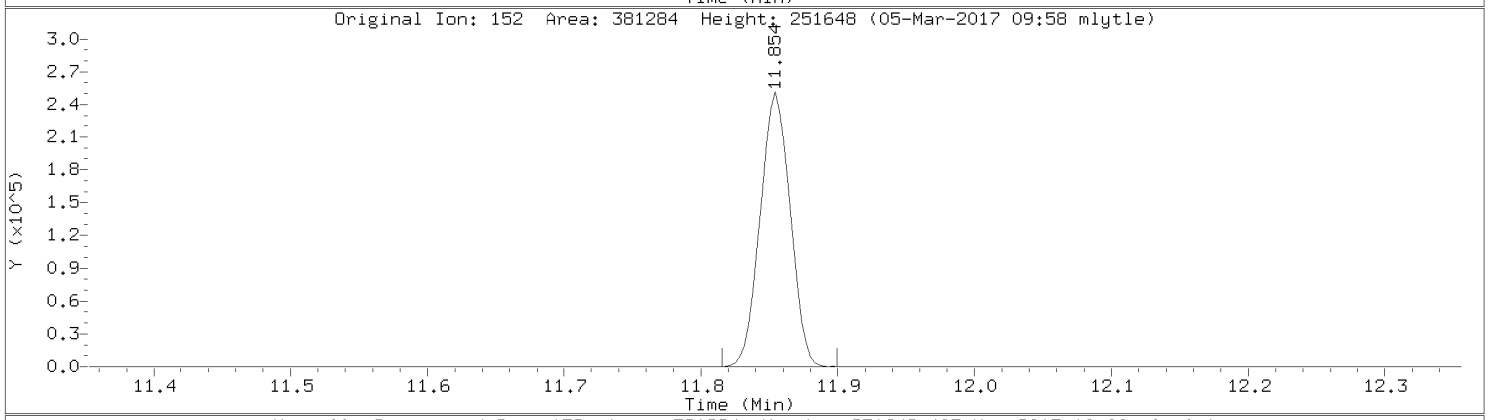


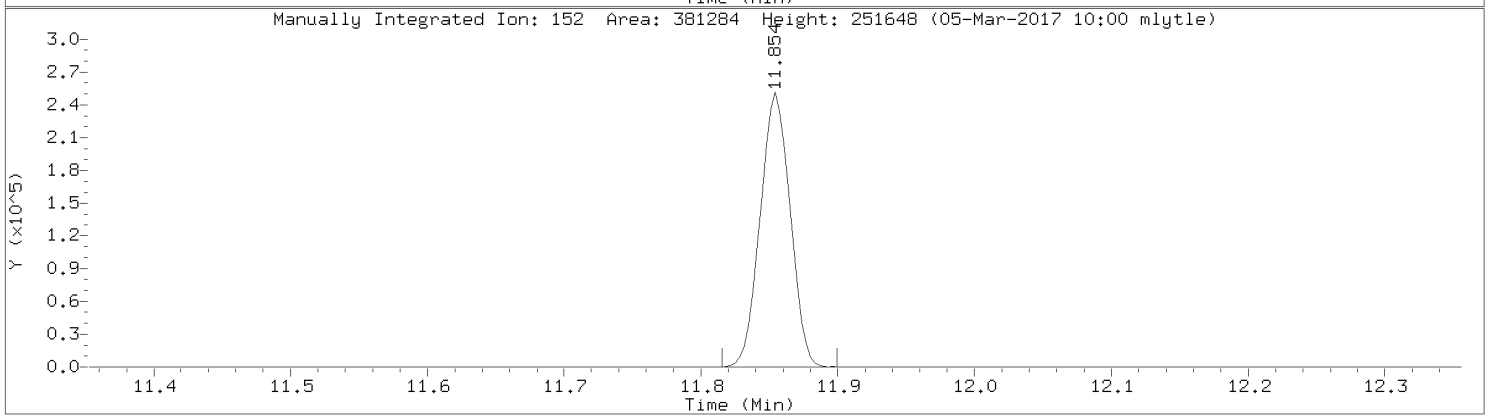
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502_27846.D
Report Date: 07-Mar-2017 11:51

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030617.b\06502_27846.D
Lab Smp Id: 2530440
Inj Date : 06-MAR-2017 09:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27846
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Meth Date : 07-Mar-2017 09:17 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.950	2.950	(0.526)	164639	16.5105	16.5
2	1,1-Difluoroethane	65	3.021	3.021	(0.538)	88616	11.2253	11.2
3	Chlorodifluoromethane	67	3.031	3.031	(0.540)	40142	10.6117	10.6
4	Propylene	41	3.034	3.034	(0.541)	103331	10.4004	10.4
5	Dichlorodifluoromethane	85	3.066	3.066	(0.546)	404580	10.5794	10.6(H)
6	Chloromethane	50	3.163	3.163	(0.564)	163998	10.6003	10.6
7	Dichlorotetrafluoroethane	85	3.169	3.169	(0.565)	376431	10.0695	10.1
8	Vinyl chloride	62	3.237	3.237	(0.577)	127782	9.56111	9.56
9	1,3-Butadiene	54	3.278	3.278	(0.584)	93078	9.56248	9.56
10	Bromomethane	94	3.417	3.417	(0.609)	111070	8.98336	8.98
11	Chloroethane	64	3.468	3.468	(0.618)	54226	8.82356	8.82
12	Ethanol	45	3.545	3.545	(0.632)	218377	44.1371	44.1
13	Vinyl Bromide	106	3.587	3.587	(0.639)	116878	9.12636	9.13
14	Isopentane	43	3.603	3.603	(0.642)	119459	8.79145	8.79
15	Freon 123	83	3.606	3.606	(0.643)	110799	7.77184	7.77
16	Trichlorofluoromethane	101	3.677	3.677	(0.655)	313262	8.48576	8.49
17	Acrolein	56	3.684	3.684	(0.656)	109422	21.9030	21.9
18	Acetone	43	3.722	3.722	(0.663)	879733	41.1767	41.2
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	952325	43.7063	43.7
20	1,1-Dichloroethene	61	3.912	3.912	(0.697)	192234	8.95367	8.95
21	Acrylonitrile	53	3.928	3.928	(0.700)	232805	23.5820	23.6
22	Freon 113	101	3.954	3.954	(0.704)	240289	8.61955	8.62
23	Methyl Acetate	43	3.960	3.960	(0.706)	286033	8.79340	8.79

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502_27846.D
Report Date: 07-Mar-2017 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.704)	623394	22.2560	22.3(M)
	25 Methylene chloride	49	4.008	4.008	(0.714)	648645	43.0151	43.0
	26 Allyl Chloride	76	4.021	4.021	(0.716)	113806	21.5885	21.6
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	278118	9.79313	9.79
	28 trans-1,2-dichloroethene	96	4.278	4.278	(0.762)	113430	9.41614	9.42
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	756957	22.0428	22.0
	30 Vinyl Acetate	43	4.391	4.391	(0.782)	321535	8.96231	8.96
	31 1,1-Dichloroethane	63	4.413	4.413	(0.786)	211371	9.00805	9.01
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	372360	8.69179	8.69
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	55179	8.67778	8.68
	34 n-Hexane	57	4.587	4.587	(0.817)	195899	9.12332	9.12
	35 Di-isopropyl Ether	45	4.603	4.603	(0.820)	380485	9.13680	9.14
	36 Ethyl Acetate	43	4.719	4.719	(0.841)	257271	9.30951	9.31
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	126007	9.36218	9.36
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	1165586	26.7327	26.7
	39 Chloroform	83	4.841	4.841	(0.863)	299311	10.7295	10.7
	40 Tetrahydrofuran	42	4.995	4.995	(0.890)	155756	10.4458	10.4
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	331142	10.0902	10.1
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	252604	10.1465	10.1
	43 Benzene	78	5.468	5.468	(0.974)	468681	10.7924	10.8
	44 Carbon tetrachloride	117	5.484	5.484	(0.977)	345027	10.5197	10.5
	45 Cyclohexane	56	5.491	5.491	(0.978)	227694	10.4739	10.5
	46 Tert Amyl Methyl Ether	73	5.606	5.606	(0.999)	425389	10.0315	10.0
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1346534	10.0000	
	48 2,2,4-Trimethylpentane	57	5.774	5.774	(1.029)	1786497	26.5596	26.6
	49 Heptane	43	5.892	5.892	(1.050)	264431	10.8974	10.9
	50 1,2-Dichloropropane	63	5.966	5.966	(1.063)	168781	10.7297	10.7
	51 Trichloroethene	130	5.989	5.989	(1.067)	240752	10.6413	10.6
	52 Methyl methacrylate	69	6.047	6.047	(1.077)	164026	11.1466	11.1
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	111628	11.0022	11.0
	54 Bromodichloromethane	83	6.085	6.085	(1.084)	347515	10.8403	10.8
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	132179	10.7574	10.8
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	904918	27.3215	27.3
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	274299	10.1489	10.1
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	257113	10.3321	10.3
$	59 Toluene-d8 (S)	98	7.079	7.079	(1.261)	1196519	9.92809	9.93
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	188708	10.4491	10.4
	61 Toluene	91	7.153	7.153	(1.274)	576400	10.5986	10.6
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	858838	29.5730	29.6
	63 n-Octane	43	7.584	7.584	(0.877)	349301	11.1062	11.1
	64 Dibromochloromethane	129	7.680	7.680	(0.888)	373700	10.3086	10.3
	65 1,2-Dibromoethane	107	7.908	7.908	(0.915)	328373	11.0646	11.1
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	330722	10.3581	10.4
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	919501	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	487670	10.6932	10.7
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	751915	11.1181	11.1
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1158201	21.8193	21.8
	71 n-Nonane	43	9.471	9.471	(1.096)	340894	12.4512	12.5
	72 Bromoform	173	9.481	9.481	(1.097)	357033	10.2245	10.2
	73 Styrene	104	9.506	9.506	(1.100)	464144	10.3495	10.3
	74 o-Xylene	91	9.580	9.580	(1.108)	592666	10.9747	11.0
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	354892	11.9263	11.9
	76 Isopropylbenzene	105	10.162	10.162	(1.176)	819253	10.7189	10.7
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	942732	10.8997	10.9

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502_27846.D
Report Date: 07-Mar-2017 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.263)	835610	10.6582	10.7
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	710808	10.9718	11.0
80	n-Decane	57	11.381	11.381	(2.028)	379307	11.0020	11.0
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	719260	11.7801	11.8
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	658531	12.0563	12.1
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	424917	10.9478	10.9
84	Sec- Butylbenzene	105	11.809	11.809	(1.366)	926141	12.1060	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	602687	11.8985	11.9
86	Benzyl Chloride	91	11.867	11.867	(1.373)	390831	9.45567	9.46
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	424827	11.8727	11.9
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	790934	10.8293	10.8
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	642084	11.9066	11.9
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	392589	10.4103	10.4
91	N-Butylbenzene	91	12.461	12.461	(1.441)	612494	10.9257	10.9
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	156072	10.6425	10.6
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.623)	170039	10.8479	10.8
94	Naphthalene	128	14.165	14.165	(1.639)	399149	10.7234	10.7
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	182510	11.4386	11.4

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502_27846.D
Report Date: 07-Mar-2017 11:51

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06502_27846.D
Lab Smp Id: 2530440
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m
Misc Info: 27846

Calibration Date: 06-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1346534	-4.78
67 Chlorobenzene - d	951026	570616	1331436	919501	-3.31

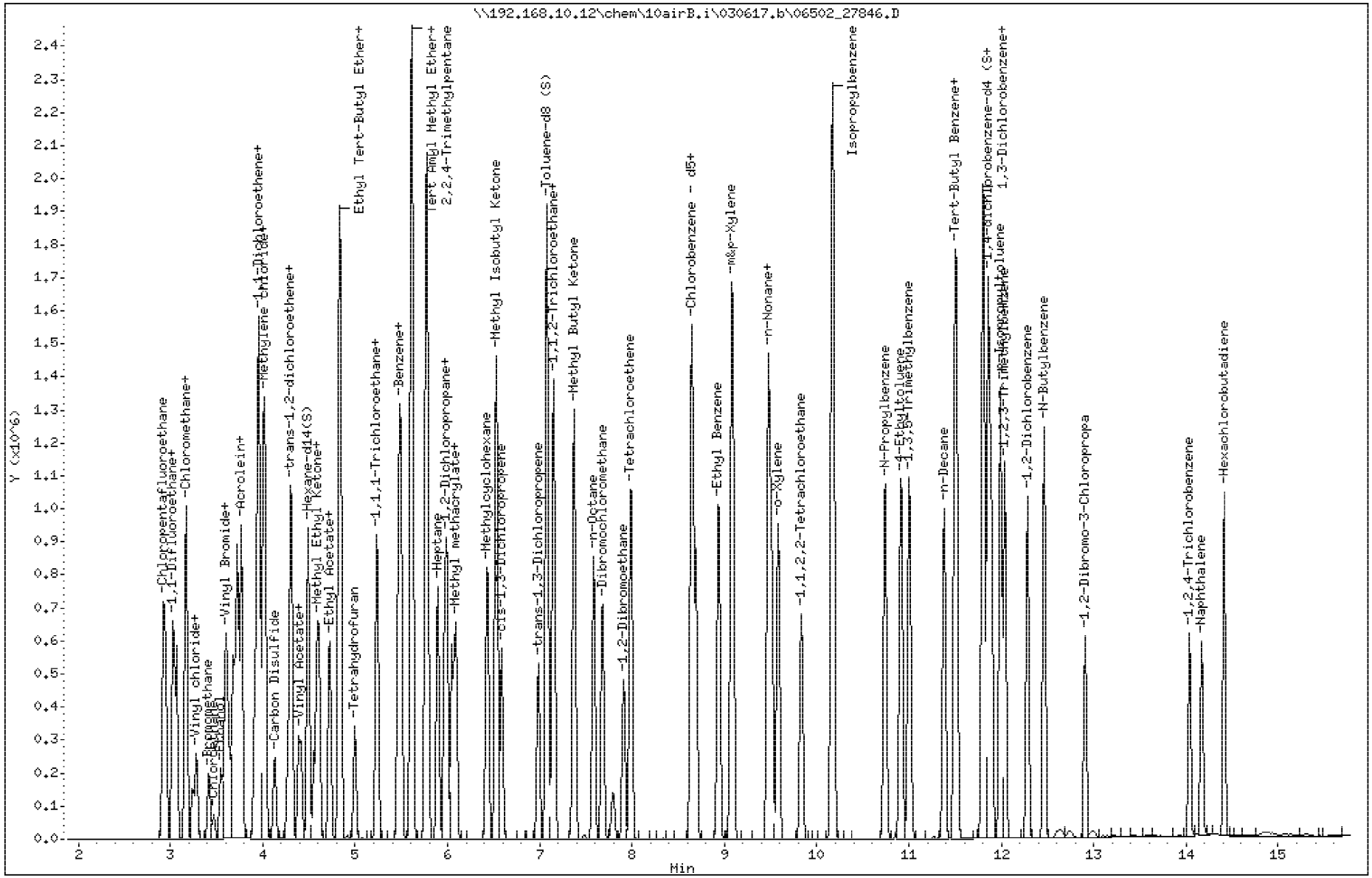
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502_27846.D
Date : 06-MAR-2017 09:10
Client ID:
Sample Info:

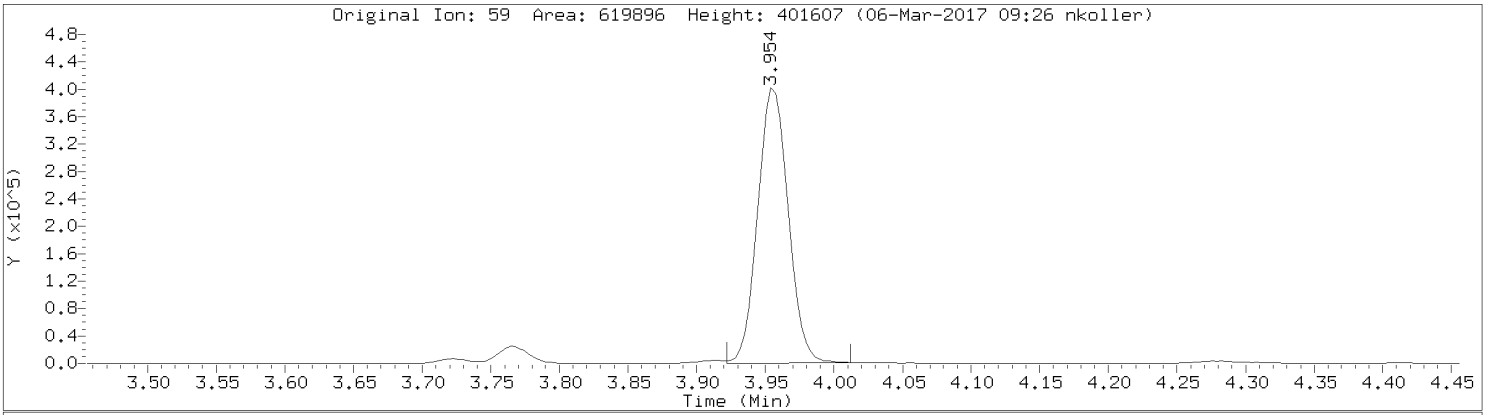
Instrument: 10airB.i

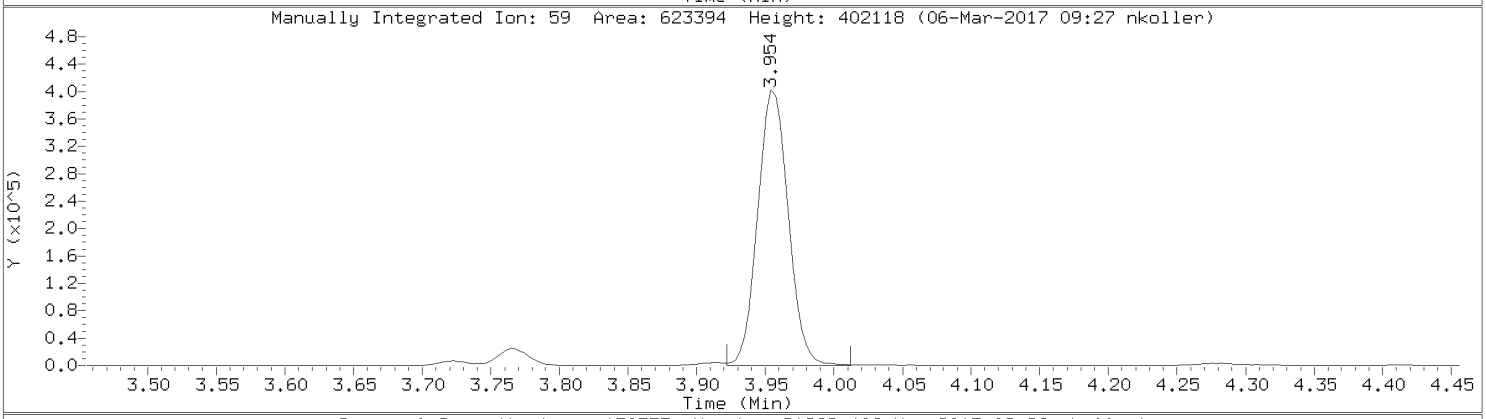
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

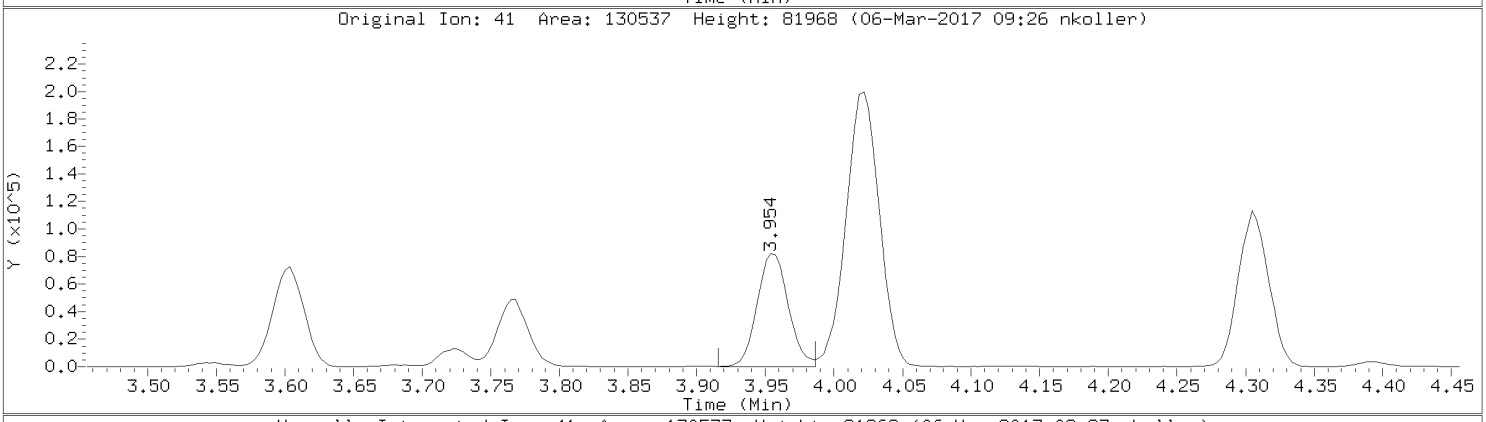


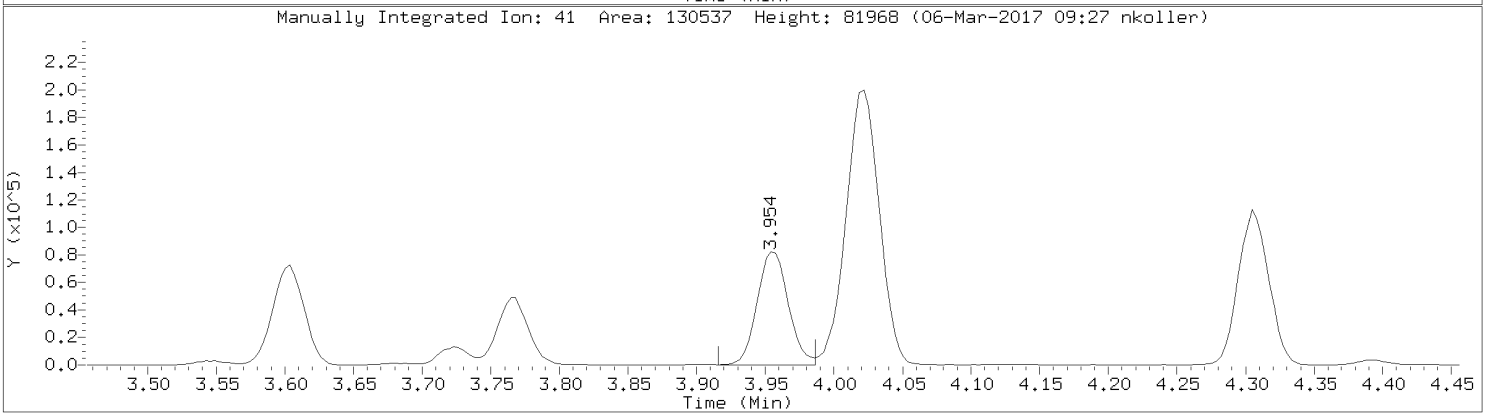
Data File: \\192.168.10.12\chem\10airB.i\030617.b/06502.D
Injection Date: 06-MAR-2017 09:10
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0









Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602_27858.D
Report Date: 08-Mar-2017 09:27

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030717.b\06602_27858.D
Lab Smp Id: 2531282
Inj Date : 07-MAR-2017 08:58
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27858
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Meth Date : 08-Mar-2017 09:09 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.909	2.909	(0.519)	104975	10.6786	10.7
2	1,1-Difluoroethane	65	2.986	2.986	(0.532)	81918	10.4838	10.5
3	Chlorodifluoromethane	67	2.992	2.992	(0.533)	39662	10.5927	10.6
4	Propylene	41	2.992	2.992	(0.533)	91981	9.28511	9.29(H)
5	Dichlorodifluoromethane	85	3.028	3.028	(0.540)	407345	10.7628	10.8(H)
6	Chloromethane	50	3.127	3.127	(0.558)	153497	10.0238	10.0
7	Dichlorotetrafluoroethane	85	3.144	3.144	(0.560)	381871	10.3202	10.3
8	Vinyl chloride	62	3.208	3.208	(0.572)	132772	10.0368	10.0
9	1,3-Butadiene	54	3.253	3.253	(0.580)	95132	9.87419	9.87
10	Bromomethane	94	3.391	3.391	(0.605)	119550	9.76883	9.77
11	Chloroethane	64	3.446	3.446	(0.614)	56241	9.24572	9.25
12	Ethanol	45	3.539	3.539	(0.631)	232707	47.5180	47.5
13	Vinyl Bromide	106	3.565	3.565	(0.635)	124922	9.85496	9.85
14	Isopentane	43	3.584	3.584	(0.639)	125018	9.30323	9.30
15	Freon 123	83	3.594	3.594	(0.641)	125962	8.93867	8.94
16	Trichlorofluoromethane	101	3.661	3.661	(0.653)	351690	9.62486	9.62
17	Acrolein	56	3.674	3.674	(0.655)	114993	23.2205	23.2
18	Acetone	43	3.713	3.713	(0.662)	918163	43.4182	43.4
19	Isopropyl Alcohol	45	3.761	3.761	(0.670)	1042503	48.3379	48.3
20	1,1-Dichloroethene	61	3.896	3.896	(0.695)	204412	9.61897	9.62
21	Acrylonitrile	53	3.925	3.925	(0.700)	239892	24.5502	24.6
22	Freon 113	101	3.938	3.938	(0.702)	272345	9.87010	9.87
23	Methyl Acetate	43	3.954	3.954	(0.705)	311753	9.68284	9.68

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602_27858.D
Report Date: 08-Mar-2017 09:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.705)	711551	25.6650	25.7
	25 Methylene chloride	49	3.999	3.999	(0.713)	675368	45.2487	45.2
	26 Allyl Chloride	76	4.012	4.012	(0.715)	128384	24.6823	24.7
	27 Carbon Disulfide	76	4.115	4.115	(0.733)	304991	10.8500	10.9
	28 trans-1,2-dichloroethene	96	4.269	4.269	(0.761)	125468	10.5228	10.5
	29 Methyl Tert Butyl Ether	73	4.298	4.298	(0.766)	863472	25.4036	25.4
	30 Vinyl Acetate	43	4.385	4.385	(0.782)	338915	9.53133	9.53
	31 1,1-Dichloroethane	63	4.407	4.407	(0.786)	226159	9.73757	9.74
$	32 Hexane-d14(S)	66	4.481	4.481	(0.799)	379513	8.95002	8.95
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.811)	60745	9.64336	9.64
	34 n-Hexane	57	4.578	4.578	(0.816)	206107	9.69762	9.70(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.820)	397804	9.65111	9.65
	36 Ethyl Acetate	43	4.716	4.716	(0.841)	265354	9.70092	9.70
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	139266	10.4539	10.5
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.860)	1021699	23.6741	23.7
	39 Chloroform	83	4.838	4.838	(0.862)	256437	9.28726	9.29
	40 Tetrahydrofuran	42	4.989	4.989	(0.889)	147922	10.0226	10.0
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	347926	10.7109	10.7
	42 1,2-Dichloroethane	62	5.233	5.233	(0.933)	251809	10.2187	10.2
	43 Benzene	78	5.465	5.465	(0.974)	453012	10.5391	10.5
	44 Carbon tetrachloride	117	5.481	5.481	(0.977)	369465	11.3808	11.4
	45 Cyclohexane	56	5.487	5.487	(0.978)	218510	10.1550	10.2
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.999)	452095	10.7942	10.8
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	1332803	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.029)	1702123	25.5659	25.6
	49 Heptane	43	5.889	5.889	(1.050)	245783	10.2333	10.2
	50 1,2-Dichloropropane	63	5.967	5.967	(1.064)	163111	10.4761	10.5
	51 Trichloroethene	130	5.986	5.986	(1.067)	251743	11.2417	11.2
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	161088	11.0597	11.1
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	112137	11.1662	11.2
	54 Bromodichloromethane	83	6.086	6.086	(1.085)	354216	11.1631	11.2
	55 Methylcyclohexane	98	6.430	6.430	(1.146)	130511	10.7318	10.7
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.164)	856960	26.1401	26.1
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	276265	10.3253	10.3
	58 trans-1,3-Dichloropropene	75	6.983	6.983	(1.245)	261160	10.5944	10.6
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1169664	9.80525	9.81
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	190743	10.6706	10.7
	61 Toluene	91	7.150	7.150	(1.275)	584102	10.8509	10.9
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	799202	27.9748	28.0
	63 n-Octane	43	7.584	7.584	(0.877)	327638	10.5898	10.6
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	399507	11.1989	11.2
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	327909	11.2318	11.2
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	356893	11.3627	11.4
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	904534	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	501166	11.1710	11.2
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	767976	11.5435	11.5
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1179110	22.5808	22.6
	71 n-Nonane	43	9.471	9.471	(1.096)	311929	11.5818	11.6
	72 Bromoform	173	9.481	9.481	(1.097)	390132	11.4081	11.4
	73 Styrene	104	9.507	9.507	(1.100)	469950	10.6641	10.7
	74 o-Xylene	91	9.581	9.581	(1.108)	601706	11.3265	11.3
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	339848	11.6097	11.6
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	841017	11.1858	11.2
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	933256	10.9685	11.0

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602_27858.D
Report Date: 08-Mar-2017 09:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	831151	10.7807	10.8
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	706564	11.0865	11.1
80	n-Decane	57	11.378	11.378	(2.028)	343630	10.0899	10.1
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	726966	12.1033	12.1
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	653546	12.1630	12.2
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	438736	11.4914	11.5
84	Sec- Butylbenzene	105	11.809	11.809	(1.366)	908255	12.0687	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	605592	12.1537	12.2
86	Benzyl Chloride	91	11.867	11.867	(1.373)	421106	10.3283	10.3
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	436108	12.3896	12.4
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	801271	11.1525	11.2
89	1,2,3-Trimethylbenzene	105	12.037	12.037	(1.392)	636453	11.9974	12.0
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	403592	10.8918	10.9
91	N-Butylbenzene	91	12.461	12.461	(1.441)	603440	10.9424	10.9
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	160601	11.1235	11.1
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.624)	166582	10.8068	10.8
94	Naphthalene	128	14.169	14.169	(1.639)	366483	10.0314	10.0
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	189728	12.0877	12.1

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602_27858.D
Report Date: 08-Mar-2017 09:27

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06602_27858.D
Lab Smp Id: 2531282
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m
Misc Info: 27858

Calibration Date: 07-MAR-2017
Calibration Time: 08:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

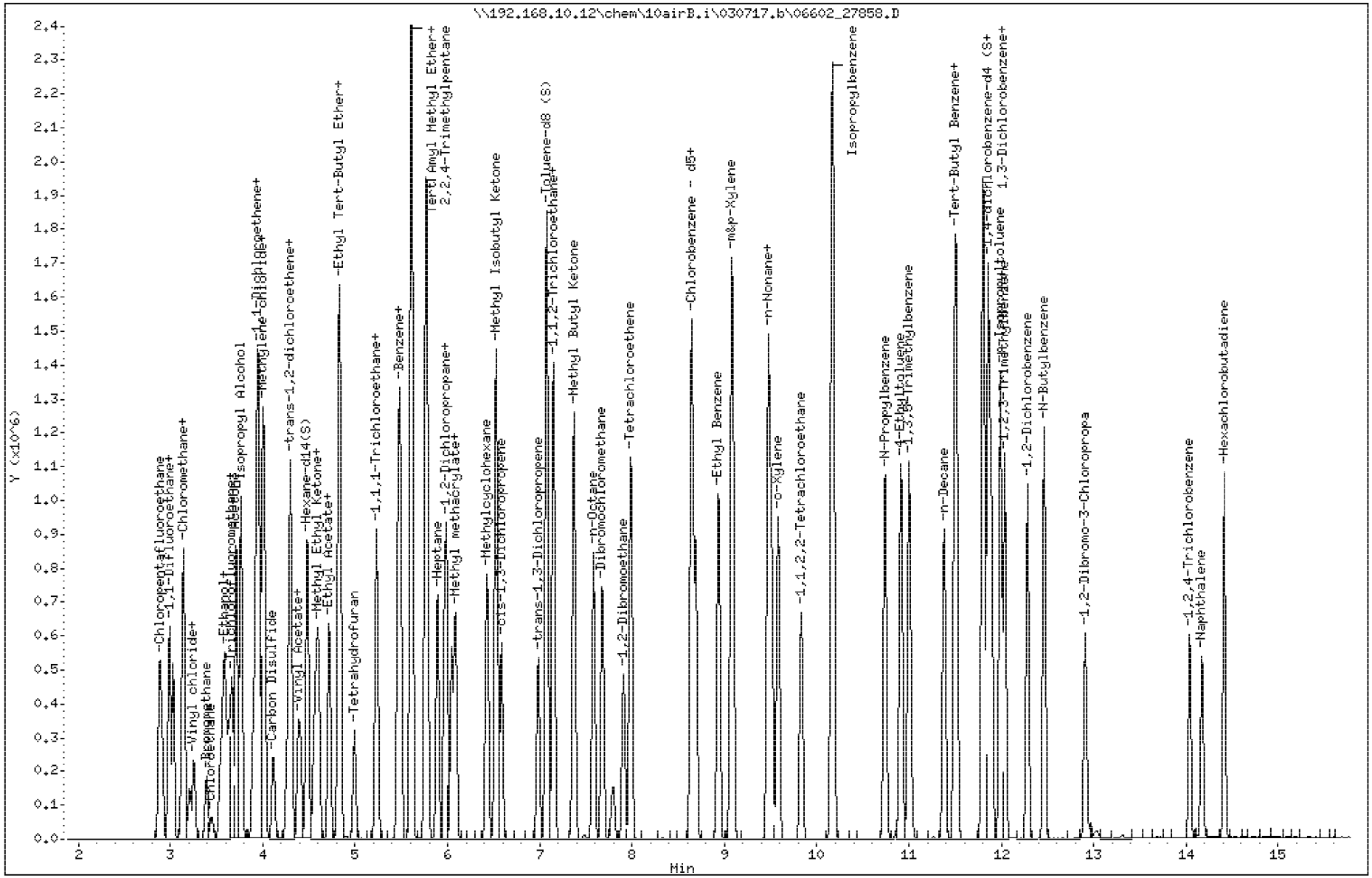
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1332803	-5.75
67 Chlorobenzene - d	951026	570616	1331436	904534	-4.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

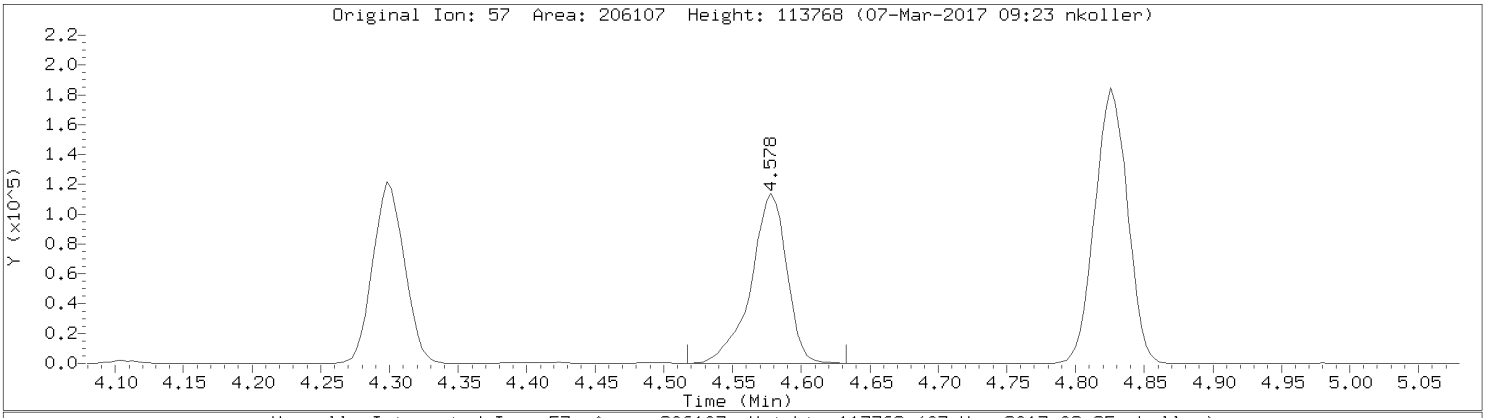
Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602_27858.D
Date : 07-MAR-2017 08:58
Client ID:
Sample Info:

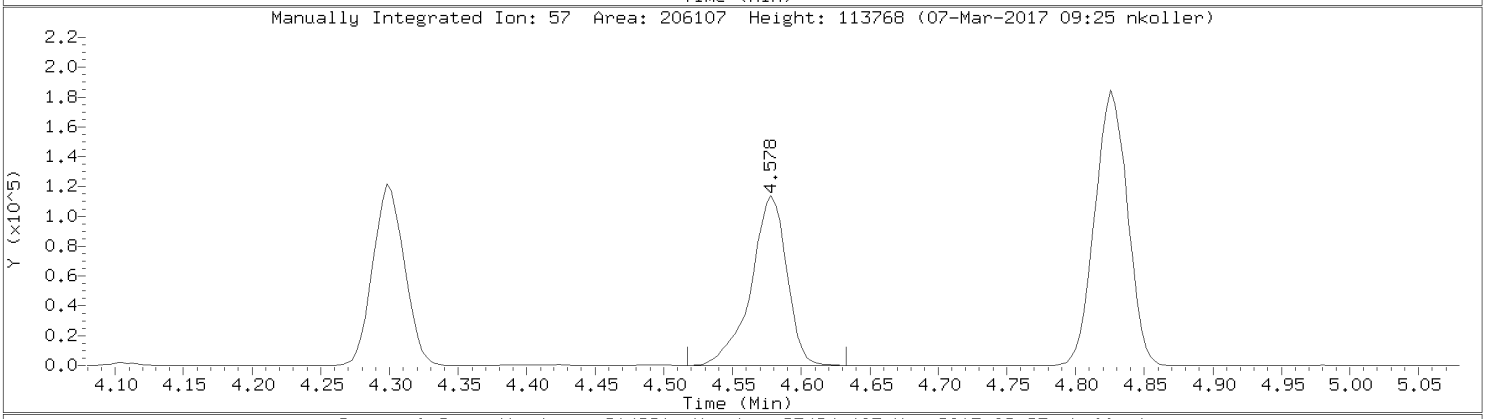
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

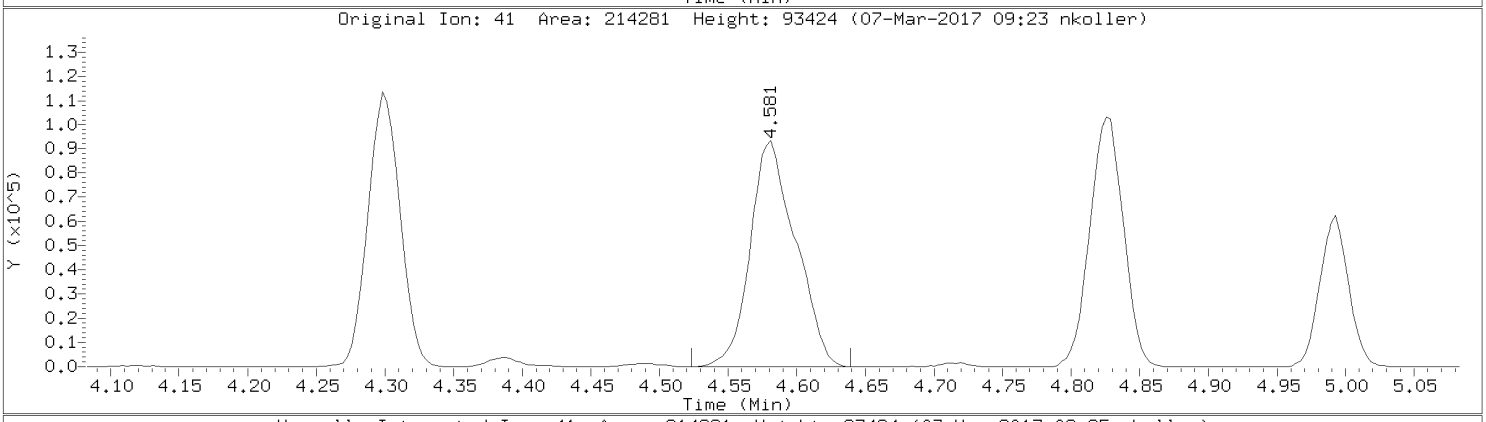


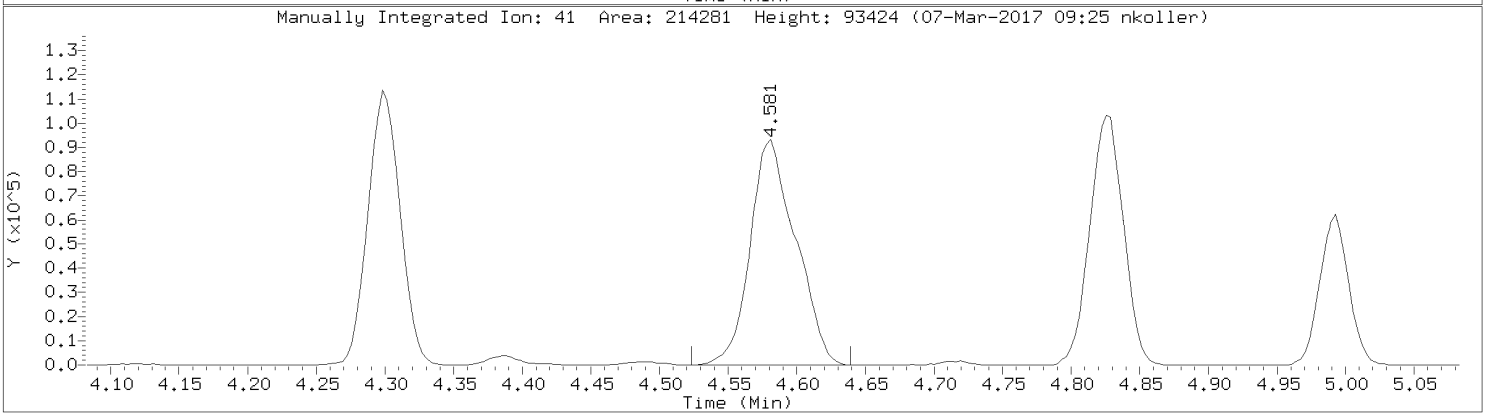
Data File: \\192.168.10.12\chem\10airB.i\030717.b/06602.D
Injection Date: 07-MAR-2017 08:58
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: n-Hexane
CAS Number: 110-54-3

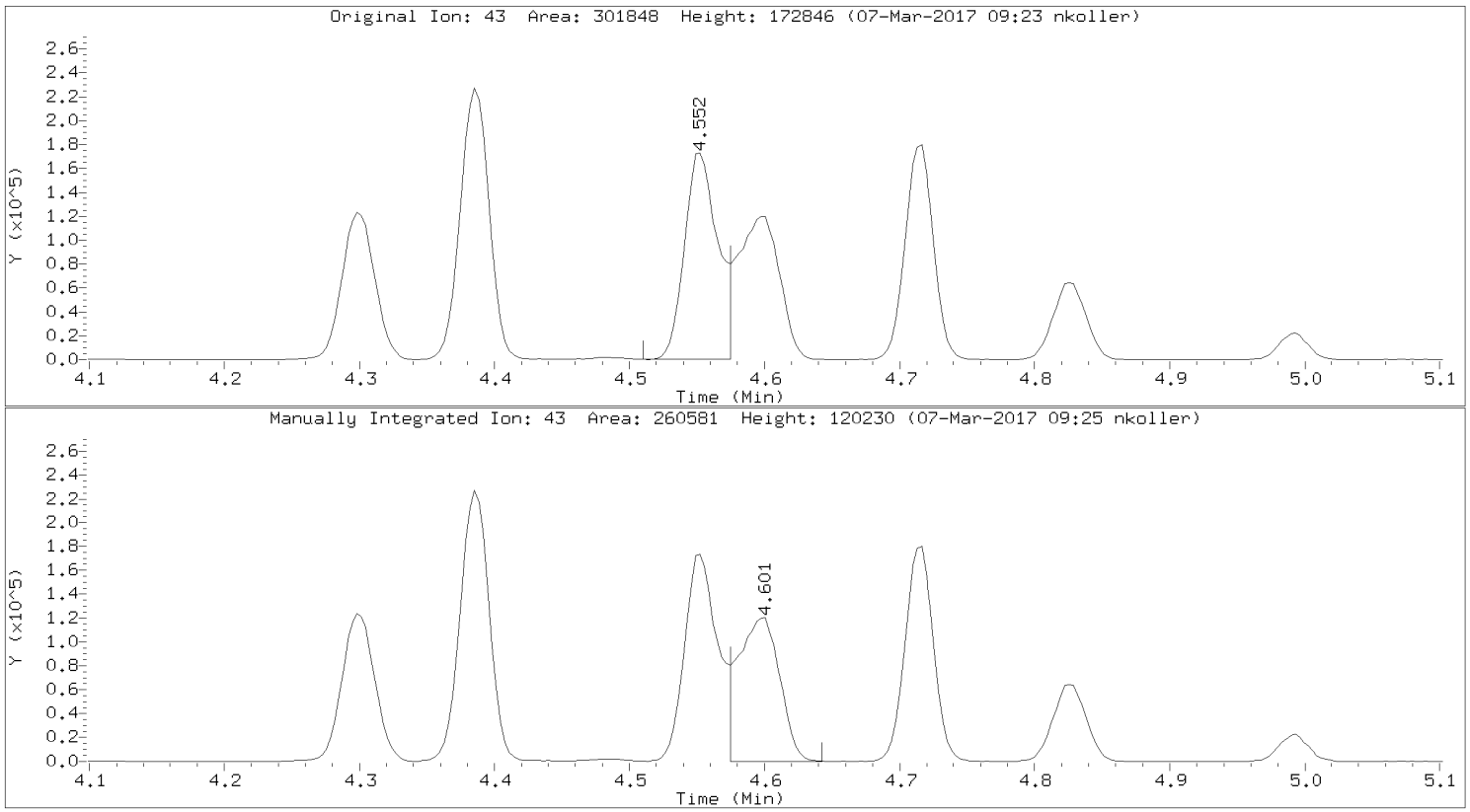








Data File: \\192.168.10.12\chem\10airB.i\030717.b/06602.D
Injection Date: 07-MAR-2017 08:58
Instrument: 10airB.i
Lab Sample ID: ccv



Equation 1: Concentration of each component in the flask (Static Dilution Technique, section 10.4.1. S-MN-A-013 rev. 19).

$$\text{Concentration}(\text{mg/L}) = \frac{(V_i)(d)}{V_f}$$

where:

V_i =Volume of liquid neat standard injected into the flask in mL;
d=Density of the liquid neat standard in mg/mL;
V_f =Volume of the flask in liters.

Caution: In the preparation of standards by this technique, make sure that the volume of neat standard injected into the flask does not result in an overpressure due to the higher partial pressure produced by the standard compared to the vapor pressure in the flask.

Equation 2: First determine the volume of the compound as a gas.

$$V = \frac{nRT}{P} \quad \text{where,} \quad n = \frac{(V_i)(d)}{M}$$

where,
V=Volume of injected compound at STP in liters;
n=Moles;
R=Gas constant (0.08206 L-atm/mole ^{o}K);
T=Ambient temperature in ^{o}K;
P=Ambient pressure in atm;
V_i=Volume of liquid neat standard injected into the flask in mL;
d=Density of the neat standard in g/mL;
M=Molecular weight of the compound in g/mole.

Equation 3: Now calculate the concentration in the flask in ppbv.

$$\text{ppbv} = \frac{V}{V_f}(10^9)$$

where:
V=Gas volume of compound as determined in Eq. 8 in liters;
V_f=Volume of static dilution flask in liters.

Equation 4*:* The concentration in ppbv of each compound in the canister can be determined.

$$\text{ppbv} = \frac{(V_i)(C_x)}{V_c}$$

where:
V_i=Volume removed from static dilution flask and injected into the canister in liters;
C_x=Concentration of compound *x* in the static dilution flask in ppbv;
V_c=Final canister volume in liters.

Equation 5: Calculate the relative response factors (RRF) for each compound.

$$\text{Relative Response Factor (RRF)} = \frac{(A_x)(C_i)}{(A_i)(C_x)}$$

where,
A_x=Area of the primary ion for compound *x* to be measured;
A_i=Area of the primary ion for the internal standard associated with compound *x*;
C_i=Concentration of the internal standard in ppbv;
C_x =Concentration of compound *x* to be measured in ppbv.

Equation 6: Calculate the mean RRF for each compound.

$$\overline{R_f} = \frac{\sum_{n=5} R_f}{n}$$

where,
$\overline{R_f}$ =Average relative response factor;
R_f=Relative response factor from calibration curve;
n=Number of data points.

Equation 7: Standard Deviation.

$$\sigma_{(n-1)} = \sqrt{\sum_{i-1}^{n} \frac{(x_i - \bar{x})^2}{(n-1)}}$$

Equation 8: %Relative Standard Deviation (%RSD).

$$\%RSD = \frac{s_{(n-1)}}{\bar{R}_f} x100$$

Equation 9: Mean area response for Internal Standard.

$$\bar{y} = \sum_{i=1}^{n} \frac{y_i}{n}$$

where,

$\bar{y}$ = mean area response

y = Area response for the internal standard for each initial calibration standard

Equation 10: If a linear regression is used, the regression produces the slope and intercept terms for a linear equation.

y = ax + b

where:

y = instrument response (peak area or height)

a = Slope of the line (also called the coefficient of x)

x = Concentration of the calibration standard

b = the intercept, do not include the origin (0) as a calibration point

Equation 11: To calculate the sample concentration by the internal standard method using the linear regression.

$C_s=[(A_sC_{is}/A_{is})-b]/a$

where:

As = Area of the peak for the target analyte in the sample

Ais = Area of the peak of the internal standard

Cs = Concentration of the target analyte in the calibration standard

Cis = Concentration of the internal standard

a = Slope of the line (also called the coefficient of Cs)

b = The intercept

Equation 12: To calculate the coefficient of determination (or r^2) for a quadratic curve fit.

$$COD = \frac{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2 - \left(\frac{n-1}{n-p}\right)\sum_{i=1}^{n}(y_{obs} - Y_i)^2}{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2}$$

where:
y_{obs} = Observed response for each concentration from each initial calibration standard
y = Mean observed response from the initial calibration (See equation 6)
Y_i = Calculated response at each concentration from the initial calibration (See Equation 5)
n = Total number of calibration points in the equation, 6 points for quadratic
p = Number of adjustable parameters in the polynomial equation

Equation 13: Calculate the sample concentration by the internal standard method using the quadratic regression by comparing peak heights to the calibration curve.

Regression equation (quadratic):

$y = ax^2 + bx + c$

Equation 14: Percent Difference (%D). The % D in the RRF of the daily RRF of an individual compound compared to the mean RRF for that compound in the most recent calibration curve.

$$\%D = \frac{|R_i - R_c|}{R_i}(100)$$

where,

R_i=The average RRF from the initial calibration curve for compound *x*;
R_c=RRF for compound *x* from the CCV standard.

Equation 15: Calculate the percent recovery of the LCS.

$$\text{Percent Recovery} = \frac{C_q}{C_a}(100)$$

where:
C_q=Quantitated concentration of compound *x* in ppbv;
C_a=Actual concentration of compound *x* in ppbv.

Equation 16: Calculate the resultant dilution factor.

DF = (Pf + 14.7) / Pi + 14.7)

Pi = Pressure reading of canister prior to pressurization (psig)
Pf = Pressure reading of canister after pressurization (psig)
DF = Dilution factor

To convert Hg to psig:
Multiply by 0.491559 or divide by 2.036

PSIG reading is converted to One Atmosphere:
One Atmosphere = 14.7 psig = 29.21 inches of Hg

Equation 17: Calculate the concentration of the sample component.

$$C_x = \frac{(A_x)(C_i)(D_f)}{(A_i)(R_f)}$$

where:

C_x=Concentration of compound *x* in ppbv;
A_x=EICP area of the quantitation ion for compound *x*;
C_i=Concentration of the internal standard associated with compound *x* in ppbv;
D_f=Dilution factor from Equation 12 (if no dilution was performed, D_f equals 1.)
A_i=EICP area of the quantitation ion for the internal standard associated with compound *x*;
R_f=Average RRF for compound *x* from the most recent calibration curve.

Equation 18: The RPD between the sample and the sample duplicate.

$$RPD = \frac{|A - B|}{(A + B)/2} \times 100$$

Where:

RPD = Relative Percent Difference
A = Sample Value
B = Duplicate Value

Equation 19: Convert ppbv to µg/m³.

$$\frac{(x\ ppbv \times MW\frac{g}{mol})}{24.055\frac{L}{mol}} = y\frac{\mu g}{m^3}$$

Where:

MW = Molecular Weight
24.055 L/mol = Molar Volume of an ideal Gas

$$PV = nRT$$

$$V = \frac{nRT}{P}$$

Where:

V = Volume in liters
N = mols of ideal Gas (1 mol)
R = Ideal gas constant
T = Temperatire in Kelvin

$$V = \frac{(1mol) \times (0.082\ \frac{(L \times atm)}{(mol \times K)} \times 293.15K}{1\ atm}$$

$$V = 24.055\frac{L}{mol}$$

Equation 20: Preparation of Working TO15 Standard.

$$\frac{X}{Y} \times C = Z$$

Where:

X = Volume (L) spiked from stock
Y = Volume (L) of container
C = Concentration (ppbv) of Stock
Z = Concentration (ppbv) of working standard

DATA USABILITY SUMMARY REPORT
FEBRUARY/MARCH 2017 AIR SAMPLES
LOCKHEED MARTIN CORPORATION: GREAT NECK SITE
NEW YORK
DATE SAMPLES COLLECTED: FEBRUARY 23, 2017

LAB REPORT No. 10380193

1.0 INTRODUCTION

Nineteen air samples were collected by Tetra Tech, Inc., at the Lockheed Martin Corporation Great Neck site, on February 23, 2017. The samples were sent to Pace Analytical Services, LLC in Minneapolis, Minnesota. All analyses were conducted in accordance with USEPA TO-15 analytical and reporting protocols.

The data package deliverables provided by the laboratory included a Category B deliverable as outlined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols.

Data validation was performed on the aforementioned samples in accordance with EPA Region II data validation guidelines and USEPA Method TO-15. Data validation was conducted using USEPA Region II Standard Operating Procedure (SOP) HW-31, September 2016, Revision 6.

The Data Usability Summary Report (DUSR) was prepared after the process of data validation was completed and summarizes the overall data quality and usability in accordance with the NYSDEC Technical Guidance for Site Investigation and Remediation (NYSDEC 2010).

The DUSR review is based on the following parameters:

- Data completeness
- * Hold times/Sample Preservation
- * GC/MS System Tuning and Performance
- Initial/continuing calibrations
- * Laboratory Method Blank Results
- * Internal Standard Results
- * Laboratory Control Sample Results
- * Laboratory Duplicate Precision
- Field Duplicate Precision
- * Compound Identification/Quantitation
- * Tentatively Identified Compounds Results
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

This report was prepared to provide a critical review of the laboratory analysis and reported chemical results. Overall, the data quality is acceptable. The results of the DUSR are presented in Section 3.0. Summary tables are provided. Attachments 1, 2, and 3 are provided so that the data user can review the qualified analytical results, results reported by the laboratory and the supporting documentation associated with data findings and data quality.

2.0 SAMPLES INCLUDED IN REVIEW

Lab Report No. 10380193

Sample ID	Lab ID	Date Collected	Test Requested
VP-105_10_20170223	10380193014	2/23/17	VOCs
VP-105_20_20170223	10380193015	2/23/17	VOCs
VP-105_5_20170223	10380193013	2/23/17	VOCs
VP-105_50_20170223	10380193016	2/23/17	VOCs
VP-105_60_20170223	10380193017	2/23/17	VOCs
VP-105_72_20170223	10380193018	2/23/17	VOCs
VP-9_10_20170223	10380193007	2/23/17	VOCs
VP-9_20_20170223	10380193008	2/23/17	VOCs
VP-9_30_20170223	10380193009	2/23/17	VOCs
VP-9_40_20170223	10380193010	2/23/17	VOCs
VP-9_50_20170223	10380193011	2/23/17	VOCs
VP-9_60_20170223	10380193012	2/23/17	VOCs
VP-9_60_20170223DUP	10380193019	2/23/17	VOCs
VP-NYSDEC-5_10_20170223	10380193002	2/23/17	VOCs
VP-NYSDEC-5_20_20170223	10380193003	2/23/17	VOCs
VP-NYSDEC-5_30_20170223	10380193004	2/23/17	VOCs
VP-NYSDEC-5_40_20170223	10380193005	2/23/17	VOCs
VP-NYSDEC-5_5_20170223	10380193001	2/23/17	VOCs
VP-NYSDEC-5_50_20170223	10380193006	2/23/17	VOCs

Legend:

VOCs = Volatile Organic Compounds in accordance with EPA TO-15 Method

3.0 RESULTS

3.1 DATA COMPLETENESS

With the exception of clean canister certification batch samples, the data package deliverables were complete and the format requirements were met. Clean canister certification samples should be included in every data package to verify the canister cleaning was performed according to method requirements. The laboratory was contacted and described that they perform canister cleaning on all sample containers but only provide analysis on a single canister on a batch basis. The laboratory was asked to provide the clean canister results, however, the clean canister results were not provided at the time of this report.

3.2 ORGANIC QUALIFIERS

Hold Times/Sample Preservation: Technical hold times and preservation were assessed by comparing the sample dates and preservation code on the sample Chain of Custody (COC) with that of the analysis dates.

- All project samples were properly preserved and analyzed within the required hold time for VOC analyses.

GC/MS Performance Check (Tuning) Summary: Gas chromatograph/mass spectrometer (GC/MS) instrument tuning and performance checks are performed to ensure the instrument's ability to provide appropriate mass-resolution, identification and sensitivity.

- The BFB tuning compound mass-ion abundance criteria for the VOC analyses were reported within control limits.

Initial and Continuing Calibration Results: Control limits for initial and continuing instrument calibrations are established to ensure that the instrument is capable of producing accurate quantitative data. The following issues were noted:

- The continuing calibration performed on 03/05/2017 @ 9:36 had a Percent Difference (%D) for chloropentafluoroethane above the quality control limit. Samples VP-NYSDEC-5_5_20170223, VP-NYSDEC-5_10_20170223, VP-NYSDEC-5_20_20170223, VP-NYSDEC-_30_20170223, VP-NYSDEC-5_40_20170223, VP-NYSDEC-5_50_20170223, VP-9_10_20170223, VP-9_20_20170223, VP-9_30_20170223, VP-9_40_20170223, VP-9_50_20170223, VP-9_60_20170223 and VP-105_5_20170223 were affected. The non-detected results reported for this compound in the affected samples were qualified as estimated, (UJ).

- The continuing calibration performed on 03/06/2017 @ 9:10 had a %D for chloropentafluoroethane above the quality control limit. Samples VP-105_50_20170223, VP-105_60_20170223, VP-105_72_20170223 and VP-9_60_20170223DUP were affected. The non-detected results reported for this compound in the affected samples were qualified as estimated, (UJ).

- All other initial and continuing calibration response factors and percent relative standard deviations were within acceptable quality control limits for the parameters reviewed.

Laboratory Method Contamination:

- No target compound contaminants were detected in the laboratory method blank associated with the reviewed parameters in this data set.

- Methylene chloride was detected in 13 of 19 samples. Methylene chloride was not reported or detected in the associated laboratory method blanks. Despite the absence of methylene chloride in the method blanks, the data reviewer has qualified all methylene chloride detections as estimated, (J) considering them suspected laboratory contaminants.

Internal Standards Area Performance:

- The internal standard area counts and retention times fell within control limits for the project samples received and reviewed.

Laboratory Control Spike (LCS) Results:

- All LCS recoveries were compliant.

Laboratory Duplicate Precision: Laboratory duplicates provide information on laboratory precision.

- The laboratory duplicate precision Relative Percent Differences (RPDs) fell within control limits, thereby satisfying laboratory precision.

Field Duplicate Precision: Field duplicates are collected to provide information on sampling precision.

- VP-9_60_20170223DUP was collected as a field duplicate sample of VP-9_60_20170223DUP. The RPDs exceeded the 50% quality control limit for 1,2-dichlorobenzene and trichloroethene. The detected results reported for these compounds in the field duplicate pair were qualified as estimated, (J).

- The remaining results associated with these two samples fell within quality control limits, thereby satisfying precision.

Target Compound Identification and Quantitation: The laboratory calculations are verified and compound identifications are reviewed and assessed by the data reviewer.

- The GC/MS raw data (quantitation reports and chromatograms) were provided for review. No laboratory calculation errors were noted for the sample selected for verification during data validation.

Tentatively Identified Compounds (TIC) Results: A targeted TIC library search was conducted for each sample for the compound 1,2-difluoroethane.

- 1,2-Difluoroethane was not detected in the targeted TIC library search in the reviewed samples. No Reporting Limit (RL) was assigned. This compound was not included on the sample Form Is or the electronic deliverable.

Detection Limits: Non-detected results were reported to the RL.

- Cis-1,2-dichloroethene exceeded the calibration range of the instrument in sample VP-NYSDEC-5_50_20170223. The laboratory reanalyzed the sample at a 9370X dilution resulting in a nondetected result. The original result was chosen and qualified as estimated, (J).

- Trans-1,2-dichloroethene exceeded the calibration range of the instrument in sample VP-9_40_20170223. The laboratory reanalyzed the sample at a 8960X dilution resulting in a nondetected result. The original result was chosen and qualified as estimated, (J).

- The following samples were further diluted due to concentrations of target compounds:

Sample	Compound	Dilution
VP-NYSDEC-5_20_20170223	trichloroethene	38.4X
VP-NYSDEC-5_30_20170223	1,1,2-trichlorotrifluoroethane	643.2X
	cis-1,2-dichloroethene	643.2X
	tetrachloroethene	643.2X
	trichloroethene	643.2X
VP-NYSDEC-5_40_20170223	1,1,2-trichlorotrifluoroethane	9369.6X
	cis-1,2-dichloroethene	9369.6X
	tetrachloroethene	9369.6X
	trichloroethene	9369.6X
VP-NYSDEC-5_50_20170223	tetrachloroethene	9369.6X
	Trichloroethene	9369.6X
VP-9_20_20170223	trichloroethene	51.46X
VP-9_30_20170223	cis-1,2-dichloroethene	292.8X
	Tetrachloroethene	292.8X
	Trichloroethene	292.8X
VP-9_40_20170223	1,1,2-trichlorotrifluoroethane	8960X
	1,1-dichloroethene	8960X
	Chloroform	8960X
	cis-1,2-dichloroethene	8960X
	tetrachloroethene	8960X
	trichloroethene	8960X
VP-9_50_20170223	cis-1,2-dichloroethene	292.8X
	Tetrachloroethene	292.8X
	Trichloroethene	292.8X
VP-9_60_20170223	cis-1,2-dichloroethene	292.8X
	Tetrachloroethene	292.8X
	Trichloroethene	292.8X
VP-9_60_20170223DUP	trichloroethene	2457.6X
VP-105_10_20170223	cyclohexane	17.5X
	hexane	17.5X
VP-105_50_20170223	trichloroethene	586X
VP-105_60_20170223	trichloroethene	560X
VP-105_72_20170223	trichloroethene	280X

  The results from the diluted analyses were used in the data review.

- Detected result reported below the RL but above the MDL were qualified as estimated, "J".

Additional Comments: According to the laboratory, the sample canisters were batch certified. All sample canisters contained an initial vacuum of approximately -30 psig (-27 to -30 psig) and finished at sub atmospheric pressures (-8 to -10).

4.0 CONCLUSIONS

Overall, based on the outcome of data validation as summarized in the DUSR, and with exception to the presence of methylene chloride which may be a laboratory contaminant in the opinion of the data reviewer, the data quality is acceptable with the qualifiers noted in this report.

Tetra Tech, Inc.
Terri L. Solomon
Chemist/Data Validator

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

May 15, 2017

Attachments:
Attachment 1 – Qualified Analytical Results
Attachment 2 – Results as Reported by the Laboratory
Attachment 3 – Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Appendix A

Qualified Analytical Results

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed
Z3 = Tentatively Identified Compound aldol condensate
Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 07792	NSAMPLE	VP-105_10_20170223			VP-105_10_20170223-DL			VP-105_20_20170223			VP-105_5_20170223		
SDG: 10380193	LAB_ID	10380193014			10380193014			10380193015			10380193013		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.9	U					2	U		2.4	U	
1,1,2,2-TETRACHLOROETHANE		1.2	U					1.3	U		1.5	U	
1,1,2-TRICHLOROETHANE		0.96	U					1	U		1.2	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.8	U					3.2			1.5	J	P
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	U					5.8	U		6.7	U	
1,1-DICHLOROETHANE		1.4	U					1.5	U		1.7	U	
1,1-DICHLOROETHENE		1.4	U					1.5	U		1.7	U	
1,2,4-TRICHLOROBENZENE		6.6	U					6.9	U		8	U	
1,2,4-TRIMETHYLBENZENE		1.1	J	P				1.5	J	P	3.6		
1,2-DIBROMO-3-CHLOROPROPANE		8.6	U					9	U		10.4	U	
1,2-DIBROMOETHANE		2.7	U					2.9	U		3.3	U	
1,2-DICHLOROBENZENE		2.1	U					2.2	U		2.6	U	
1,2-DICHLOROETHANE		0.72	U					0.75	U		0.87	U	
1,2-DICHLOROPROPANE		1.6	U					1.7	U		2	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U					2.6	U		3	U	
1,3,5-TRIMETHYLBENZENE		1.7	U					1.8	U		1.1	J	P
1,3-BUTADIENE		0.79	U					0.82	U		0.95	U	
1,3-DICHLOROBENZENE		2.1	U					2.2	U		2.6	U	
1,4-DICHLOROBENZENE		2.1	U					2.2	U		2.6	U	
1,4-DIOXANE		6.4	U					6.7	U		7.8	U	
1-ETHYL-4-METHYL BENZENE		1.2	J	P				1.3	J	P	2.1	J	P
2-BUTANONE		5.2	U					5.5	J	P	6.4	U	
2-HEXANONE		7.3	U					7.6	U		8.8	U	
3-CHLOROPROPENE		2.8	U					2.9	U		3.4	U	
4-METHYL-2-PENTANONE		7.3	U					7.6	U		8.8	U	
ACETONE		13						44			74.9		
BENZENE		3.2						0.48	J	P	2.7		
BROMODICHLOROMETHANE		2.4	U					2.5	U		2.9	U	
BROMOFORM		3.7	U					3.8	U		4.5	U	
BROMOMETHANE		1.4	U					1.4	U		1.7	U	
CARBON DISULFIDE		1.1	U					1.2	U		1.3	U	
CARBON TETRACHLORIDE		1.1	U					1.2	U		1.4	U	
CHLOROBENZENE		1.6	U					1.7	U		2	U	
CHLORODIBROMOMETHANE		3	U					3.2	U		3.7	U	
CHLORODIFLUOROMETHANE		1.3	U					1.3	U		10.6		

PROJ_NO: 07792	NSAMPLE	VP-105_50_20170223			VP-105_50_20170223-DL			VP-105_60_20170223			VP-105_60_20170223-DL		
SDG: 10380193	LAB_ID	10380193016			10380193016			10380193017			10380193017		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		20.3	U					19.4	U				
1,1,2,2-TETRACHLOROETHANE		12.8	U					12.2	U				
1,1,2-TRICHLOROETHANE		10.1	U					9.6	U				
1,1,2-TRICHLOROTRIFLUOROETHANE		398						308					
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		58.2	U					55.6	U				
1,1-DICHLOROETHANE		15	U					14.4	U				
1,1-DICHLOROETHENE		9	J	P				14.2	U				
1,2,4-TRICHLOROBENZENE		69	U					66	U				
1,2,4-TRIMETHYLBENZENE		18.3	U					17.5	U				
1,2-DIBROMO-3-CHLOROPROPANE		89.9	U					85.9	U				
1,2-DIBROMOETHANE		28.5	U					27.3	U				
1,2-DICHLOROBENZENE		22.3	U					21.4	U				
1,2-DICHLOROETHANE		7.5	U					7.2	U				
1,2-DICHLOROPROPANE		17.2	U					16.4	U				
1,2-DICHLOROTETRAFLUOROETHANE		26	U					24.8	U				
1,3,5-TRIMETHYLBENZENE		18.3	U					17.5	U				
1,3-BUTADIENE		8.2	U					7.9	U				
1,3-DICHLOROBENZENE		22.3	U					21.4	U				
1,4-DICHLOROBENZENE		22.3	U					21.4	U				
1,4-DIOXANE		67	U					64	U				
1-ETHYL-4-METHYL BENZENE		18.3	U					17.5	U				
2-BUTANONE		54.9	U					52.5	U				
2-HEXANONE		76.2	U					72.9	U				
3-CHLOROPROPENE		29.1	U					27.8	U				
4-METHYL-2-PENTANONE		76.2	U					72.9	U				
ACETONE		44.2	U					42.2	U				
BENZENE		8.5						4.2	J	P			
BROMODICHLOROMETHANE		24.9	U					23.8	U				
BROMOFORM		38.4	U					36.8	U				
BROMOMETHANE		14.5	U					13.8	U				
CARBON DISULFIDE		11.5	U					11	U				
CARBON TETRACHLORIDE		11.7	U					11.2	U				
CHLOROBENZENE		17.2	U					16.4	U				
CHLORODIBROMOMETHANE		31.7	U					30.3	U				
CHLORODIFLUOROMETHANE		160						166					

PROJ_NO: 07792	NSAMPLE	VP-105_72_20170223			VP-105_72_20170223-DL			VP-9_10_20170223			VP-9_20_20170223		
SDG: 10380193	LAB_ID	10380193018			10380193018			10380193007			10380193008		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		19.4	U					1.4	J	P	3.6		
1,1,2,2-TETRACHLOROETHANE		12.2	U					1.3	U		1.3	U	
1,1,2-TRICHLOROETHANE		9.6	U					1.1	U		10.9		
1,1,2-TRICHLOROTRIFLUOROETHANE		292						3.1	U		14.2		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		55.6	U					6.1	U		6.1	U	
1,1-DICHLOROETHANE		14.4	U					1.6	U		1.6	U	
1,1-DICHLOROETHENE		14.2	U					1.6	U		1.6	U	
1,2,4-TRICHLOROBENZENE		66	U					7.2	U		7.2	U	
1,2,4-TRIMETHYLBENZENE		17.5	U					1.2	J	P	3.5		
1,2-DIBROMO-3-CHLOROPROPANE		85.9	U					9.4	U		9.4	U	
1,2-DIBROMOETHANE		27.3	U					3	U		3	U	
1,2-DICHLOROBENZENE		21.4	U					2.3	U		2.3	U	
1,2-DICHLOROETHANE		7.2	U					0.79	U		0.79	U	
1,2-DICHLOROPROPANE		16.4	U					1.8	U		1.8	U	
1,2-DICHLOROTETRAFLUOROETHANE		24.8	U					2.7	U		2.7	U	
1,3,5-TRIMETHYLBENZENE		17.5	U					1.9	U		1.3	J	P
1,3-BUTADIENE		7.9	U					0.86	U		0.86	U	
1,3-DICHLOROBENZENE		21.4	U					2.3	U		2.3	U	
1,4-DICHLOROBENZENE		21.9						2.3	U		2.3	U	
1,4-DIOXANE		64	U					7	U		7	U	
1-ETHYL-4-METHYL BENZENE		17.5	U					1.3	J	P	1.6	J	P
2-BUTANONE		52.5	U					5.8	U		6.9		
2-HEXANONE		72.9	U					8	U		8	U	
3-CHLOROPROPENE		27.8	U					3.1	U		3.1	U	
4-METHYL-2-PENTANONE		72.9	U					8	U		8	U	
ACETONE		42.2	U					12.6			98.7		
BENZENE		3	J	P				0.85			1.3		
BROMODICHLOROMETHANE		23.8	U					2.6	U		2.6	U	
BROMOFORM		36.8	U					4	U		4	U	
BROMOMETHANE		13.8	U					1.5	U		1.5	U	
CARBON DISULFIDE		11	U					1.2	U		1.2	U	
CARBON TETRACHLORIDE		11.2	U					1.2	U		1.2	U	
CHLOROBENZENE		16.4	U					1.8	U		1.8	U	
CHLORODIBROMOMETHANE		30.3	U					3.3	U		3.3	U	
CHLORODIFLUOROMETHANE		76.1						1.4	U		94.1		

PROJ_NO: 07792	NSAMPLE	VP-9_20_20170223-DL			VP-9_30_20170223			VP-9_30_20170223-DL			VP-9_40_20170223		
SDG: 10380193	LAB_ID	10380193008			10380193009			10380193009			10380193010		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					1.3	J	P				1.9	U	
1,1,2,2-TETRACHLOROETHANE					1.3	U					1.2	U	
1,1,2-TRICHLOROETHANE					44.8						94.1		
1,1,2-TRICHLOROTRIFLUOROETHANE					137								
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					5.8	U					5.6	U	
1,1-DICHLOROETHANE					1.9						1.4	U	
1,1-DICHLOROETHENE					3.8								
1,2,4-TRICHLOROBENZENE					6.9	U					6.6	U	
1,2,4-TRIMETHYLBENZENE					1.2	J	P				1.7	U	
1,2-DIBROMO-3-CHLOROPROPANE					9	U					8.6	U	
1,2-DIBROMOETHANE					2.9	U					2.7	U	
1,2-DICHLOROBENZENE					2.2	U					1.6	J	P
1,2-DICHLOROETHANE					2.3						17.5		
1,2-DICHLOROPROPANE					1.7	U					1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE					2.6	U					2.5	U	
1,3,5-TRIMETHYLBENZENE					1.8	U					1.7	U	
1,3-BUTADIENE					0.82	U					0.79	U	
1,3-DICHLOROBENZENE					2.2	U					2.1	U	
1,4-DICHLOROBENZENE					2.2	U					2.1	U	
1,4-DIOXANE					6.7	U					6.4	U	
1-ETHYL-4-METHYL BENZENE					1.5	J	P				1.4	J	P
2-BUTANONE					3.4	J	P				5.2	U	
2-HEXANONE					7.6	U					7.3	U	
3-CHLOROPROPENE					2.9	U					2.8	U	
4-METHYL-2-PENTANONE					7.6	U					7.3	U	
ACETONE					15.3						11.6		
BENZENE					2.7						91.1		
BROMODICHLOROMETHANE					2	J	P				2.4	U	
BROMOFORM					3.8	U					3.7	U	
BROMOMETHANE					1.4	U					1.4	U	
CARBON DISULFIDE					1.2	U					1.1	U	
CARBON TETRACHLORIDE					3.8						32.4		
CHLOROBENZENE					1.7	U					1	J	P
CHLORODIBROMOMETHANE					3.2	U					3	U	
CHLORODIFLUOROMETHANE					1.3	U					58		

PROJ_NO: 07792	NSAMPLE	VP-9_40_20170223-DL			VP-9_50_20170223			VP-9_50_20170223-DL			VP-9_60_20170223		
SDG: 10380193	LAB_ID	10380193010			10380193011			10380193011			10380193012		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					6.7						9.7		
1,1,2,2-TETRACHLOROETHANE					1.3	U					1.3	U	
1,1,2-TRICHLOROETHANE					5.7						6.3		
1,1,2-TRICHLOROTRIFLUOROETHANE		473000			294						279		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					5.8	U					5.8	U	
1,1-DICHLOROETHANE					0.97	J	P				1.5	U	
1,1-DICHLOROETHENE		2910	J	P	12.4						12.4		
1,2,4-TRICHLOROBENZENE					6.9	U					6.9	U	
1,2,4-TRIMETHYLBENZENE					2.2						1.2	J	P
1,2-DIBROMO-3-CHLOROPROPANE					9	U					9	U	
1,2-DIBROMOETHANE					2.9	U					2.9	U	
1,2-DICHLOROBENZENE					3.2						4.2	J	G
1,2-DICHLOROETHANE					0.75	U					0.94		
1,2-DICHLOROPROPANE					1.7	U					1.7	U	
1,2-DICHLOROTETRAFLUOROETHANE					2.6	U					2.6	U	
1,3,5-TRIMETHYLBENZENE					1.1	J	P				1.8	U	
1,3-BUTADIENE					0.82	U					0.82	U	
1,3-DICHLOROBENZENE					2.2	U					2.2	U	
1,4-DICHLOROBENZENE					2.2	U					1.1	J	P
1,4-DIOXANE					6.7	U					6.7	U	
1-ETHYL-4-METHYL BENZENE					1.5	J	P				1.4	J	P
2-BUTANONE					5.5	U					5.5	U	
2-HEXANONE					7.6	U					7.6	U	
3-CHLOROPROPENE					2.9	U					2.9	U	
4-METHYL-2-PENTANONE					7.6	U					7.6	U	
ACETONE					30.5						11.9		
BENZENE					3.4						2.5		
BROMODICHLOROMETHANE					2.5	U					2.5	U	
BROMOFORM					3.8	U					3.8	U	
BROMOMETHANE					1.4	U					1.4	U	
CARBON DISULFIDE					0.68	J	P				0.88	J	P
CARBON TETRACHLORIDE					1.2						1.1	J	P
CHLOROBENZENE					1.7	U					1.7	U	
CHLORODIBROMOMETHANE					3.2	U					3.2	U	
CHLORODIFLUOROMETHANE					1.3	U					1.3	U	

PROJ_NO: 07792	NSAMPLE	VP-9_60_20170223-DL			VP-9_60_20170223DUP			VP-9_60_20170223DUP-DL			VP-NYSDEC-5_10_20170223		
SDG: 10380193	LAB_ID	10380193012			10380193019			10380193019			10380193002		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF				VP-9_60_20170223			VP-9_60_20170223					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					11.8	J	P				1.9	U	
1,1,2,2-TETRACHLOROETHANE					13.4	U					1.2	U	
1,1,2-TRICHLOROETHANE					10.6	U					0.96	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					329						2.8	U	
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					61.1	U					5.6	U	
1,1-DICHLOROETHANE					15.7	U					1.4	U	
1,1-DICHLOROETHENE					13	J	P				1.4	U	
1,2,4-TRICHLOROBENZENE					72.4	U					6.6	U	
1,2,4-TRIMETHYLBENZENE					19.2	U					1.2	J	P
1,2-DIBROMO-3-CHLOROPROPANE					94.3	U					8.6	U	
1,2-DIBROMOETHANE					30	U					2.7	U	
1,2-DICHLOROBENZENE					13.2	J	GP				2.1	U	
1,2-DICHLOROETHANE					7.9	U					0.72	U	
1,2-DICHLOROPROPANE					18	U					1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE					27.3	U					2.5	U	
1,3,5-TRIMETHYLBENZENE					19.2	U					1.7	U	
1,3-BUTADIENE					8.6	U					0.79	U	
1,3-DICHLOROBENZENE					23.4	U					2.1	U	
1,4-DICHLOROBENZENE					23.4	U					2.1	U	
1,4-DIOXANE					70.3	U					6.4	U	
1-ETHYL-4-METHYL BENZENE					19.2	U					1.3	J	P
2-BUTANONE					57.6	U					5.2	U	
2-HEXANONE					79.9	U					7.3	U	
3-CHLOROPROPENE					30.5	U					2.8	U	
4-METHYL-2-PENTANONE					79.9	U					7.3	U	
ACETONE					46.3	U					34.2		
BENZENE					6.2	U					1.4		
BROMODICHLOROMETHANE					26.1	U					2.4	U	
BROMOFORM					40.3	U					3.7	U	
BROMOMETHANE					15.2	U					1.4	U	
CARBON DISULFIDE					12.1	U					0.74	J	P
CARBON TETRACHLORIDE					12.3	U					1.1	U	
CHLOROBENZENE					18	U					1.6	U	
CHLORODIBROMOMETHANE					33.2	U					3	U	
CHLORODIFLUOROMETHANE					13.8	U					15.1		

PROJ_NO: 07792	NSAMPLE	VP-NYSDEC-5_20_20170223			VP-NYSDEC-5_20_20170223-DL			VP-NYSDEC-5_30_20170223			VP-NYSDEC-5_30_20170223-DL		
SDG: 10380193	LAB_ID	10380193003			10380193003			10380193004			10380193004		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		2.1	U					2.2	U				
1,1,2,2-TETRACHLOROETHANE		1.3	U					1.4	U				
1,1,2-TRICHLOROETHANE		1.1	U					4.2					
1,1,2-TRICHLOROTRIFLUOROETHANE		30									26500		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		6.1	U					6.4	U				
1,1-DICHLOROETHANE		1.6	U					2.4					
1,1-DICHLOROETHENE		1.6	U					5.3					
1,2,4-TRICHLOROBENZENE		7.2	U					7.6	U				
1,2,4-TRIMETHYLBENZENE		1.5	J	P				1.6	J	P			
1,2-DIBROMO-3-CHLOROPROPANE		9.4	U					9.9	U				
1,2-DIBROMOETHANE		3	U					3.1	U				
1,2-DICHLOROBENZENE		2.3	U					2.5	U				
1,2-DICHLOROETHANE		0.79	U					0.82	U				
1,2-DICHLOROPROPANE		1.8	U					1.9	U				
1,2-DICHLOROTETRAFLUOROETHANE		2.7	U					2.9	U				
1,3,5-TRIMETHYLBENZENE		1.9	U					2	U				
1,3-BUTADIENE		0.86	U					0.9	U				
1,3-DICHLOROBENZENE		2.3	U					2.5	U				
1,4-DICHLOROBENZENE		2.3	U					2.5	U				
1,4-DIOXANE		7	U					7.4	U				
1-ETHYL-4-METHYL BENZENE		1.3	J	P				1.6	J	P			
2-BUTANONE		3.2	J	P				3.8	J	P			
2-HEXANONE		8	U					8.4	U				
3-CHLOROPROPENE		3.1	U					3.2	U				
4-METHYL-2-PENTANONE		8	U					8.4	U				
ACETONE		18.8						30.7					
BENZENE		1.1						0.65	U				
BROMODICHLOROMETHANE		2.6	U					2.7	U				
BROMOFORM		4	U					4.2	U				
BROMOMETHANE		1.5	U					1.6	U				
CARBON DISULFIDE		1.2	U					1.3	U				
CARBON TETRACHLORIDE		4.6						56.6					
CHLOROBENZENE		1.8	U					1.9	U				
CHLORODIBROMOMETHANE		3.3	U					3.5	U				
CHLORODIFLUOROMETHANE		218						151					

PROJ_NO: 07792	NSAMPLE	VP-NYSDEC-5_40_20170223			VP-NYSDEC-5_40_20170223-DL			VP-NYSDEC-5_5_20170223			VP-NYSDEC-5_50_20170223		
SDG: 10380193	LAB_ID	10380193005			10380193005			10380193001			10380193006		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.2	J	P				1.9	U		1.5	J	P
1,1,2,2-TETRACHLOROETHANE		1.3	U					1.2	U		1.3	U	
1,1,2-TRICHLOROETHANE		26.4						0.96	U		162		
1,1,2-TRICHLOROTRIFLUOROETHANE					50300			2.8	U		239		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.8	U					5.6	U		5.8	U	
1,1-DICHLOROETHANE		7.5						1.4	U		1.5	U	
1,1-DICHLOROETHENE		7.6						1.4	U		27.8		
1,2,4-TRICHLOROBENZENE		6.9	U					6.6	U		6.9	U	
1,2,4-TRIMETHYLBENZENE		1.8	U					2.1			1.8	U	
1,2-DIBROMO-3-CHLOROPROPANE		9	U					8.6	U		9	U	
1,2-DIBROMOETHANE		2.9	U					2.7	U		2.9	U	
1,2-DICHLOROBENZENE		2.2	U					2.1	U		3.7		
1,2-DICHLOROETHANE		0.75	U					0.72	U		1.8		
1,2-DICHLOROPROPANE		1.7	U					1.6	U		1.7	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.6	U					2.5	U		2.6	U	
1,3,5-TRIMETHYLBENZENE		1.8	U					1.7	U		1.8	U	
1,3-BUTADIENE		0.82	U					0.79	U		0.82	U	
1,3-DICHLOROBENZENE		2.2	U					2.1	U		2.2	U	
1,4-DICHLOROBENZENE		2.2	U					2.1	U		1.2	J	P
1,4-DIOXANE		6.7	U					6.4	U		6.7	U	
1-ETHYL-4-METHYL BENZENE		1.2	J	P				1.4	J	P	1.3	J	P
2-BUTANONE		5.5	U					14			5.5	U	
2-HEXANONE		7.6	U					7.3	U		7.6	U	
3-CHLOROPROPENE		2.9	U					2.8	U		2.9	U	
4-METHYL-2-PENTANONE		7.6	U					7.3	U		7.6	U	
ACETONE		11						74			9.1		
BENZENE		1.7						1.5			0.59	U	
BROMODICHLOROMETHANE		2.5	U					2.4	U		2.5	U	
BROMOFORM		3.8	U					3.7	U		3.8	U	
BROMOMETHANE		1.4	U					1.4	U		1.4	U	
CARBON DISULFIDE		1.2	U					1.1	U		1.2	U	
CARBON TETRACHLORIDE		16.6						1.1	U		3.2		
CHLOROBENZENE		1.7	U					1.6	U		0.94	J	P
CHLORODIBROMOMETHANE		3.2	U					3	U		3.2	U	
CHLORODIFLUOROMETHANE		170						1.3	U		77.3		

PROJ_NO: 07792	NSAMPLE	VP-NYSDEC-5_50_20170223-DL		
SDG: 10380193	LAB_ID	10380193006		
FRACTION: OV	SAMP_DATE	2/23/2017		
MEDIA: AIR	QC_TYPE	NM		
	UNITS	UG/M3		
	PCT_SOLIDS			
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE				
1,1,2,2-TETRACHLOROETHANE				
1,1,2-TRICHLOROETHANE				
1,1,2-TRICHLOROTRIFLUOROETHANE				
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE				
1,1-DICHLOROETHANE				
1,1-DICHLOROETHENE				
1,2,4-TRICHLOROBENZENE				
1,2,4-TRIMETHYLBENZENE				
1,2-DIBROMO-3-CHLOROPROPANE				
1,2-DIBROMOETHANE				
1,2-DICHLOROBENZENE				
1,2-DICHLOROETHANE				
1,2-DICHLOROPROPANE				
1,2-DICHLOROTETRAFLUOROETHANE				
1,3,5-TRIMETHYLBENZENE				
1,3-BUTADIENE				
1,3-DICHLOROBENZENE				
1,4-DICHLOROBENZENE				
1,4-DIOXANE				
1-ETHYL-4-METHYL BENZENE				
2-BUTANONE				
2-HEXANONE				
3-CHLOROPROPENE				
4-METHYL-2-PENTANONE				
ACETONE				
BENZENE				
BROMODICHLOROMETHANE				
BROMOFORM				
BROMOMETHANE				
CARBON DISULFIDE				
CARBON TETRACHLORIDE				
CHLOROBENZENE				
CHLORODIBROMOMETHANE				
CHLORODIFLUOROMETHANE				

PROJ_NO: 07792	NSAMPLE	VP-105_10_20170223			VP-105_10_20170223-DL			VP-105_20_20170223			VP-105_5_20170223		
SDG: 10380193	LAB_ID	10380193014			10380193014			10380193015			10380193013		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.94	U					0.99	U		1.1	U	
CHLOROFORM		0.87	U					2			1.1	U	
CHLOROMETHANE		0.74	U					0.77	U		1.8		
CIS-1,2-DICHLOROETHENE		1.4	U					2.3			2.2		
CIS-1,3-DICHLOROPROPENE		1.6	U					1.7	U		2	U	
CYCLOHEXANE					120			0.66	J	P	9.8		
DICHLORODIFLUOROMETHANE		2.2						2.1			3.8		
ETHYLBENZENE		1.1	J	P				1.3	J	P	11.7		
HEXACHLOROBUTADIENE		3.8	U					4	U		4.6	U	
HEXANE					293			2			41.1		
ISOPROPANOL		4.4	U					3.1	J	P	12		
ISOPROPYLBENZENE		4.4	U					4.6	U		5.3	U	
M+P-XYLENES		5.1						5.5			36.4		
METHYL ACETATE		2.7	U					2.8	U		3.3	U	
METHYL CYCLOHEXANE		85.5						1.5	U		4.6		
METHYL TERT-BUTYL ETHER		6.4	U					6.7	U		7.8	U	
METHYLENE CHLORIDE		3.3	J	AP				5.7	J	AP	515	J	A
O-XYLENE		1.2	J	P				1.4	J	P	10.4		
PENTAFLUOROETHYL CHLORIDE		5.6	U					5.9	U		6.8	UJ	C
STYRENE		0.82	J	P				1.6	U		2		
TETRACHLOROETHENE		8.9						103			10.2		
TOLUENE		14.8						7.9			52.9		
TRANS-1,2-DICHLOROETHENE		1.4	U					1.5	U		1.7	U	
TRANS-1,3-DICHLOROPROPENE		1.6	U					1.7	U		2	U	
TRICHLOROETHENE		4.8						170			49.9		
TRICHLOROFLUOROMETHANE		1.2	J	P				1.2	J	P	2.2	J	P
VINYL CHLORIDE		0.46	U					0.48	U		0.55	U	

PROJ_NO: 07792	NSAMPLE	VP-105_50_20170223			VP-105_50_20170223-DL			VP-105_60_20170223			VP-105_60_20170223-DL		
SDG: 10380193	LAB_ID	10380193016			10380193016			10380193017			10380193017		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		9.9	U					9.4	U				
CHLOROFORM		25.4						21.6					
CHLOROMETHANE		7.7	U					7.4	U				
CIS-1,2-DICHLOROETHENE		2010						850					
CIS-1,3-DICHLOROPROPENE		16.8	U					16.1	U				
CYCLOHEXANE		12.8	U					12.2	U				
DICHLORODIFLUOROMETHANE		18.5	U					17.7	U				
ETHYLBENZENE		16.1	U					15.4	U				
HEXACHLOROBUTADIENE		39.7	U					37.9	U				
HEXANE		13.2	U					12.6	U				
ISOPROPANOL		45.8	U					43.8	U				
ISOPROPYLBENZENE		45.8	U					43.8	U				
M+P-XYLENES		32.4	U					31	U				
METHYL ACETATE		28.2	U					27	U				
METHYL CYCLOHEXANE		14.9	U					14.3	U				
METHYL TERT-BUTYL ETHER		67.1	U					64.1	U				
METHYLENE CHLORIDE		64.6	U					61.8	U				
O-XYLENE		16.1	U					15.4	U				
PENTAFLUOROETHYL CHLORIDE		58.7	UJ	C				56.2	UJ	C			
STYRENE		15.9	U					15.2	U				
TETRACHLOROETHENE		1880						1730					
TOLUENE		119						19.7					
TRANS-1,2-DICHLOROETHENE		19.8						11.6	J	P			
TRANS-1,3-DICHLOROPROPENE		16.8	U					16.1	U				
TRICHLOROETHENE					34500						30100		
TRICHLOROFLUOROMETHANE		32.1						33.2					
VINYL CHLORIDE		4.8	U					4.6	U				

PROJ_NO: 07792	NSAMPLE	VP-105_72_20170223			VP-105_72_20170223-DL			VP-9_10_20170223			VP-9_20_20170223		
SDG: 10380193	LAB_ID	10380193018			10380193018			10380193007			10380193008		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		9.4	U					1	U		1	U	
CHLOROFORM		12.1						2.4			9.3		
CHLOROMETHANE		7.4	U					0.81	U		1.4		
CIS-1,2-DICHLOROETHENE		266						1.6	U		63.5		
CIS-1,3-DICHLOROPROPENE		16.1	U					1.8	U		1.8	U	
CYCLOHEXANE		12.2	U					2.9			1.8		
DICHLORODIFLUOROMETHANE		17.7	U					2.1			2.3		
ETHYLBENZENE		15.4	U					5.8			3.7		
HEXACHLOROBUTADIENE		37.9	U					4.2	U		4.2	U	
HEXANE		12.6	U					1.2	J	P	2.9		
ISOPROPANOL		43.8	U					4.8	U		138		
ISOPROPYLBENZENE		43.8	U					4.8	U		4.8	U	
M+P-XYLENES		31	U					23			15.6		
METHYL ACETATE		27	U					3	U		3	U	
METHYL CYCLOHEXANE		14.3	U					1.1	J	P	0.97	J	P
METHYL TERT-BUTYL ETHER		64.1	U					7	U		3.6	J	P
METHYLENE CHLORIDE		61.8	U					8.7	J	A	12.3	J	A
O-XYLENE		15.4	U					5.4			3.8		
PENTAFLUOROETHYL CHLORIDE		56.2	UJ	C				6.2	UJ	C	6.2	UJ	C
STYRENE		15.2	U					1.7	U		1.7	U	
TETRACHLOROETHENE		1400						13.4			340		
TOLUENE		16.7						16.6			20.1		
TRANS-1,2-DICHLOROETHENE		14.2	U					1.6	U		1.6	U	
TRANS-1,3-DICHLOROPROPENE		16.1	U					1.8	U		1.8	U	
TRICHLOROETHENE					12200			108					
TRICHLOROFLUOROMETHANE		33.1						1.1	J	P	1.3	J	P
VINYL CHLORIDE		4.6	U					0.5	U		0.5	U	

PROJ_NO: 07792	NSAMPLE	VP-9_20_20170223-DL			VP-9_30_20170223			VP-9_30_20170223-DL			VP-9_40_20170223		
SDG: 10380193	LAB_ID	10380193008			10380193009			10380193009			10380193010		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					0.99	U					0.94	U	
CHLOROFORM					95.8								
CHLOROMETHANE					0.42	J	P				0.74	U	
CIS-1,2-DICHLOROETHENE								1810					
CIS-1,3-DICHLOROPROPENE					1.7	U					1.6	U	
CYCLOHEXANE					1.2	J	P				1.2	U	
DICHLORODIFLUOROMETHANE					2.2						1.8	U	
ETHYLBENZENE					2.9						2.9		
HEXACHLOROBUTADIENE					4	U					3.8	U	
HEXANE					3.4						7.6		
ISOPROPANOL					4.6	U					4.4	U	
ISOPROPYLBENZENE					4.6	U					4.4	U	
M+P-XYLENES					11.7						7.4		
METHYL ACETATE					2.8	U					2.7	U	
METHYL CYCLOHEXANE					1.5	U					11.8		
METHYL TERT-BUTYL ETHER					9.2						6.4	U	
METHYLENE CHLORIDE					32.4	J	A				6.2	U	
O-XYLENE					2.8						2.2		
PENTAFLUOROETHYL CHLORIDE					5.9	UJ	C				5.6	UJ	C
STYRENE					1.6	U					1.5	U	
TETRACHLOROETHENE								2380					
TOLUENE					14.4						17.8		
TRANS-1,2-DICHLOROETHENE					5.4						377	J	L
TRANS-1,3-DICHLOROPROPENE					1.7	U					1.6	U	
TRICHLOROETHENE		638						15300					
TRICHLOROFLUOROMETHANE					1.9	J	P				140		
VINYL CHLORIDE					0.48	U					76.2		

PROJ_NO: 07792	NSAMPLE	VP-9_40_20170223-DL			VP-9_50_20170223			VP-9_50_20170223-DL			VP-9_60_20170223		
SDG: 10380193	LAB_ID	10380193010			10380193011			10380193011			10380193012		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					0.99	U					0.99	U	
CHLOROFORM		3740	J	P	36.4						40.2		
CHLOROMETHANE					0.77	U					0.77	U	
CIS-1,2-DICHLOROETHENE		342000						1830					
CIS-1,3-DICHLOROPROPENE					1.7	U					1.7	U	
CYCLOHEXANE					5						1.3	U	
DICHLORODIFLUOROMETHANE					2.3						2.8		
ETHYLBENZENE					12.1						3.3		
HEXACHLOROBUTADIENE					4	U					4	U	
HEXANE					4.1						2.2		
ISOPROPANOL					9.3						4.6	U	
ISOPROPYLBENZENE					4.6	U					4.6	U	
M+P-XYLENES					44.5						12.8		
METHYL ACETATE					2.8	U					2.8	U	
METHYL CYCLOHEXANE					2.8						0.97	J	P
METHYL TERT-BUTYL ETHER					6.7	U					6.7	U	
METHYLENE CHLORIDE					6	J	AP				5.4	J	AP
O-XYLENE					10.7						3		
PENTAFLUOROETHYL CHLORIDE					5.9	UJ	C				5.9	UJ	C
STYRENE					1	J	P				1.6	U	
TETRACHLOROETHENE		183000						3870					
TOLUENE					96						18.8		
TRANS-1,2-DICHLOROETHENE					15.1						12.7		
TRANS-1,3-DICHLOROPROPENE					1.7	U					1.7	U	
TRICHLOROETHENE		1310000						26400					
TRICHLOROFLUOROMETHANE					3.8						4.1		
VINYL CHLORIDE					0.48	U					1		

PROJ_NO: 07792	NSAMPLE	VP-9_60_20170223-DL			VP-9_60_20170223DUP			VP-9_60_20170223DUP-DL			VP-NYSDEC-5_10_20170223		
SDG: 10380193	LAB_ID	10380193012			10380193019			10380193019			10380193002		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF				VP-9_60_20170223								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					10.4	U					0.94	U	
CHLOROFORM					44.9						0.87	U	
CHLOROMETHANE					8.1	U					0.74	U	
CIS-1,2-DICHLOROETHENE		1210			732						1.4	U	
CIS-1,3-DICHLOROPROPENE					17.7	U					1.6	U	
CYCLOHEXANE					13.4	U					4.7		
DICHLORODIFLUOROMETHANE					19.4	U					2.8		
ETHYLBENZENE					16.9	U					1.9		
HEXACHLOROBUTADIENE					41.6	U					3.8	U	
HEXANE					13.8	U					13.9		
ISOPROPANOL					48	U					6.1		
ISOPROPYLBENZENE					48	U					4.4	U	
M+P-XYLENES					34	U					7.8		
METHYL ACETATE					29.6	U					2.7	U	
METHYL CYCLOHEXANE					15.7	U					1.4	U	
METHYL TERT-BUTYL ETHER					70.4	U					6.4	U	
METHYLENE CHLORIDE					67.8	U					83.9	J	A
O-XYLENE					16.9	U					1.8		
PENTAFLUOROETHYL CHLORIDE					61.6	UJ	C				5.6	UJ	C
STYRENE					16.7	U					0.85	J	P
TETRACHLOROETHENE		4410			3100						1.8		
TOLUENE					21						26.5		
TRANS-1,2-DICHLOROETHENE					14.6	J	P				1.4	U	
TRANS-1,3-DICHLOROPROPENE					17.7	U					1.6	U	
TRICHLOROETHENE		26000	J	G				85700	J	G	9.6		
TRICHLOROFLUOROMETHANE					21.9	U					1.6	J	P
VINYL CHLORIDE					5	U					0.46	U	

PROJ_NO: 07792	NSAMPLE	VP-NYSDEC-5_20_20170223			VP-NYSDEC-5_20_20170223-DL			VP-NYSDEC-5_30_20170223			VP-NYSDEC-5_30_20170223-DL		
SDG: 10380193	LAB_ID	10380193003			10380193003			10380193004			10380193004		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		1	U					1.1	U				
CHLOROFORM		8						212					
CHLOROMETHANE		0.81	U					0.84	U				
CIS-1,2-DICHLOROETHENE		14.4									992		
CIS-1,3-DICHLOROPROPENE		1.8	U					1.8	U				
CYCLOHEXANE		1.3	J	P				7.4					
DICHLORODIFLUOROMETHANE		2.8						7.9					
ETHYLBENZENE		2.1						15.9					
HEXACHLOROBUTADIENE		4.2	U					4.4	U				
HEXANE		1.9						2.3					
ISOPROPANOL		4.2	J	P				5.3					
ISOPROPYLBENZENE		4.8	U					5	U				
M+P-XYLENES		9						59.1					
METHYL ACETATE		3	U					17.9					
METHYL CYCLOHEXANE		0.96	J	P				3.6					
METHYL TERT-BUTYL ETHER		7	U					7.4	U				
METHYLENE CHLORIDE		6.8	U					149	J	A			
O-XYLENE		2.1						13.7					
PENTAFLUOROETHYL CHLORIDE		6.2	UJ	C				6.5	UJ	C			
STYRENE		1.7	U					1.1	J	P			
TETRACHLOROETHENE		98.1									8450		
TOLUENE		101						31.1					
TRANS-1,2-DICHLOROETHENE		1.6						39.5					
TRANS-1,3-DICHLOROPROPENE		1.8	U					1.8	U				
TRICHLOROETHENE					1720						100000		
TRICHLOROFLUOROMETHANE		1.8	J	P				39.9					
VINYL CHLORIDE		0.5	U					0.52	U				

PROJ_NO: 07792	NSAMPLE	VP-NYSDEC-5_40_20170223			VP-NYSDEC-5_40_20170223-DL			VP-NYSDEC-5_5_20170223			VP-NYSDEC-5_50_20170223		
SDG: 10380193	LAB_ID	10380193005			10380193005			10380193001			10380193006		
FRACTION: OV	SAMP_DATE	2/23/2017			2/23/2017			2/23/2017			2/23/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.99	U					0.94	U		0.99	U	
CHLOROFORM		134						0.87	U		99.5		
CHLOROMETHANE		0.77	U					1.1			0.77	U	
CIS-1,2-DICHLOROETHENE					14600			1.4	U		550	J	L
CIS-1,3-DICHLOROPROPENE		1.7	U					1.6	U		1.7	U	
CYCLOHEXANE		4.5						13.6			1.7		
DICHLORODIFLUOROMETHANE		1.8	U					2.1			1.9		
ETHYLBENZENE		3.3						32.4			4.6		
HEXACHLOROBUTADIENE		4	U					3.8	U		4	U	
HEXANE		1.6						2.4			0.83	J	P
ISOPROPANOL		4.6	U					13			4.6	U	
ISOPROPYLBENZENE		4.6	U					4.4	U		4.6	U	
M+P-XYLENES		12.2						118			17		
METHYL ACETATE		14.8						2.7	U		2.8	U	
METHYL CYCLOHEXANE		2.9						8.4			0.95	J	P
METHYL TERT-BUTYL ETHER		6.7	U					6.4	U		6.7	U	
METHYLENE CHLORIDE		124	J	A				6.1	J	AP	3.5	J	AP
O-XYLENE		2.8						29.1			3.9		
PENTAFLUOROETHYL CHLORIDE		5.9	UJ	C				5.6	UJ	C	5.9	UJ	C
STYRENE		1.6	U					1.8			1.6	U	
TETRACHLOROETHENE					59300			4.7					
TOLUENE		13.3						69.3			12.1		
TRANS-1,2-DICHLOROETHENE		142						1.4	U		27.8		
TRANS-1,3-DICHLOROPROPENE		1.7	U					1.6	U		1.7	U	
TRICHLOROETHENE					564000			1.2					
TRICHLOROFLUOROMETHANE		33.8						1.2	J	P	8.4		
VINYL CHLORIDE		0.48	U					0.46	U		1.3		

PROJ_NO: 07792	NSAMPLE	VP-NYSDEC-5_50_20170223-DL		
SDG: 10380193	LAB_ID	10380193006		
FRACTION: OV	SAMP_DATE	2/23/2017		
MEDIA: AIR	QC_TYPE	NM		
	UNITS	UG/M3		
	PCT_SOLIDS			
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
CHLOROETHANE				
CHLOROFORM				
CHLOROMETHANE				
CIS-1,2-DICHLOROETHENE				
CIS-1,3-DICHLOROPROPENE				
CYCLOHEXANE				
DICHLORODIFLUOROMETHANE				
ETHYLBENZENE				
HEXACHLOROBUTADIENE				
HEXANE				
ISOPROPANOL				
ISOPROPYLBENZENE				
M+P-XYLENES				
METHYL ACETATE				
METHYL CYCLOHEXANE				
METHYL TERT-BUTYL ETHER				
METHYLENE CHLORIDE				
O-XYLENE				
PENTAFLUOROETHYL CHLORIDE				
STYRENE				
TETRACHLOROETHENE		6860		
TOLUENE				
TRANS-1,2-DICHLOROETHENE				
TRANS-1,3-DICHLOROPROPENE				
TRICHLOROETHENE		848000		
TRICHLOROFLUOROMETHANE				
VINYL CHLORIDE				

Appendix B

Results as Reported by the Laboratory

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_5_20170223 **Lab ID: 10380193001** Collected: 02/23/17 12:27 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**74.0**	ug/m3	4.2	1.5	1.75		03/05/17 17:49	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/05/17 17:49	107-05-1	
Benzene	**1.5**	ug/m3	0.57	0.21	1.75		03/05/17 17:49	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/05/17 17:49	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/05/17 17:49	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/05/17 17:49	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/05/17 17:49	106-99-0	
2-Butanone (MEK)	**14.0**	ug/m3	5.2	0.40	1.75		03/05/17 17:49	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/05/17 17:49	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/05/17 17:49	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/05/17 17:49	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/05/17 17:49	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/05/17 17:49	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/05/17 17:49	67-66-3	
Chloromethane	**1.1**	ug/m3	0.74	0.19	1.75		03/05/17 17:49	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 17:49	76-15-3	CL
Cyclohexane	**13.6**	ug/m3	1.2	0.55	1.75		03/05/17 17:49	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/05/17 17:49	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/05/17 17:49	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/05/17 17:49	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/05/17 17:49	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/05/17 17:49	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/05/17 17:49	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.8	0.84	1.75		03/05/17 17:49	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/05/17 17:49	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/05/17 17:49	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/05/17 17:49	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/05/17 17:49	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/05/17 17:49	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/05/17 17:49	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/05/17 17:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/05/17 17:49	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/05/17 17:49	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 17:49	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/05/17 17:49	123-91-1	
Ethylbenzene	**32.4**	ug/m3	1.5	0.74	1.75		03/05/17 17:49	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.8	0.33	1.75		03/05/17 17:49	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/05/17 17:49	87-68-3	
n-Hexane	**2.4**	ug/m3	1.3	0.62	1.75		03/05/17 17:49	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/05/17 17:49	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/05/17 17:49	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/05/17 17:49	79-20-9	
Methylcyclohexane	**8.4**	ug/m3	1.4	0.42	1.75		03/05/17 17:49	108-87-2	
Methylene Chloride	**6.1J**	ug/m3	6.2	0.95	1.75		03/05/17 17:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/05/17 17:49	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/05/17 17:49	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_5_20170223 **Lab ID: 10380193001** Collected: 02/23/17 12:27 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**13.0**	ug/m3	4.4	0.42	1.75		03/05/17 17:49	67-63-0	
Styrene	**1.8**	ug/m3	1.5	0.34	1.75		03/05/17 17:49	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/05/17 17:49	79-34-5	
Tetrachloroethene	**4.7**	ug/m3	1.2	0.49	1.75		03/05/17 17:49	127-18-4	
Toluene	**69.3**	ug/m3	1.3	0.27	1.75		03/05/17 17:49	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/05/17 17:49	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/05/17 17:49	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/05/17 17:49	79-00-5	
Trichloroethene	**1.2**	ug/m3	0.96	0.48	1.75		03/05/17 17:49	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.0	0.23	1.75		03/05/17 17:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.53**	ug/m3	2.8	0.53	1.75		03/05/17 17:49	76-13-1	
1,2,4-Trimethylbenzene	**2.1**	ug/m3	1.7	0.22	1.75		03/05/17 17:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/05/17 17:49	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/05/17 17:49	75-01-4	
m&p-Xylene	**118**	ug/m3	3.1	1.4	1.75		03/05/17 17:49	179601-23-1	
o-Xylene	**29.1**	ug/m3	1.5	0.61	1.75		03/05/17 17:49	95-47-6	

Sample: VP-NYSDEC-5_10_20170223 **Lab ID: 10380193002** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**34.2**	ug/m3	4.2	1.5	1.75		03/05/17 18:53	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/05/17 18:53	107-05-1	
Benzene	**1.4**	ug/m3	0.57	0.21	1.75		03/05/17 18:53	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/05/17 18:53	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/05/17 18:53	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/05/17 18:53	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/05/17 18:53	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/05/17 18:53	78-93-3	
Carbon disulfide	**0.74J**	ug/m3	1.1	0.18	1.75		03/05/17 18:53	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/05/17 18:53	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/05/17 18:53	108-90-7	
Chlorodifluoromethane	**15.1**	ug/m3	1.3	0.48	1.75		03/05/17 18:53	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/05/17 18:53	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/05/17 18:53	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/05/17 18:53	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 18:53	76-15-3	CL
Cyclohexane	**4.7**	ug/m3	1.2	0.55	1.75		03/05/17 18:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/05/17 18:53	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/05/17 18:53	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/05/17 18:53	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/05/17 18:53	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_10_20170223 **Lab ID: 10380193002** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/05/17 18:53	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/05/17 18:53	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	0.84	1.75		03/05/17 18:53	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/05/17 18:53	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/05/17 18:53	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/05/17 18:53	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/05/17 18:53	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/05/17 18:53	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/05/17 18:53	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/05/17 18:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/05/17 18:53	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/05/17 18:53	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 18:53	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/05/17 18:53	123-91-1	
Ethylbenzene	**1.9**	ug/m3	1.5	0.74	1.75		03/05/17 18:53	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.8	0.33	1.75		03/05/17 18:53	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/05/17 18:53	87-68-3	
n-Hexane	**13.9**	ug/m3	1.3	0.62	1.75		03/05/17 18:53	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/05/17 18:53	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/05/17 18:53	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/05/17 18:53	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/05/17 18:53	108-87-2	
Methylene Chloride	**83.9**	ug/m3	6.2	0.95	1.75		03/05/17 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/05/17 18:53	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/05/17 18:53	1634-04-4	
2-Propanol	**6.1**	ug/m3	4.4	0.42	1.75		03/05/17 18:53	67-63-0	
Styrene	**0.85J**	ug/m3	1.5	0.34	1.75		03/05/17 18:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/05/17 18:53	79-34-5	
Tetrachloroethene	**1.8**	ug/m3	1.2	0.49	1.75		03/05/17 18:53	127-18-4	
Toluene	**26.5**	ug/m3	1.3	0.27	1.75		03/05/17 18:53	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/05/17 18:53	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/05/17 18:53	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/05/17 18:53	79-00-5	
Trichloroethene	**9.6**	ug/m3	0.96	0.48	1.75		03/05/17 18:53	79-01-6	
Trichlorofluoromethane	**1.6J**	ug/m3	2.0	0.23	1.75		03/05/17 18:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.53**	ug/m3	2.8	0.53	1.75		03/05/17 18:53	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.22	1.75		03/05/17 18:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/05/17 18:53	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/05/17 18:53	75-01-4	
m&p-Xylene	**7.8**	ug/m3	3.1	1.4	1.75		03/05/17 18:53	179601-23-1	
o-Xylene	**1.8**	ug/m3	1.5	0.61	1.75		03/05/17 18:53	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_20_20170223 **Lab ID: 10380193003** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**18.8**	ug/m3	4.6	1.6	1.92		03/05/17 19:59	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 19:59	107-05-1	
Benzene	**1.1**	ug/m3	0.62	0.23	1.92		03/05/17 19:59	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 19:59	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 19:59	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 19:59	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 19:59	106-99-0	
2-Butanone (MEK)	**3.2J**	ug/m3	5.8	0.44	1.92		03/05/17 19:59	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 19:59	75-15-0	
Carbon tetrachloride	**4.6**	ug/m3	1.2	0.37	1.92		03/05/17 19:59	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 19:59	108-90-7	
Chlorodifluoromethane	**218**	ug/m3	1.4	0.53	1.92		03/05/17 19:59	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 19:59	75-00-3	
Chloroform	**8.0**	ug/m3	0.95	0.36	1.92		03/05/17 19:59	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/05/17 19:59	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 19:59	76-15-3	CL
Cyclohexane	**1.3J**	ug/m3	1.3	0.61	1.92		03/05/17 19:59	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 19:59	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 19:59	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 19:59	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 19:59	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 19:59	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 19:59	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.9	0.92	1.92		03/05/17 19:59	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 19:59	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 19:59	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 19:59	75-35-4	
cis-1,2-Dichloroethene	**14.4**	ug/m3	1.6	0.47	1.92		03/05/17 19:59	156-59-2	
trans-1,2-Dichloroethene	**1.6**	ug/m3	1.6	0.74	1.92		03/05/17 19:59	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 19:59	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 19:59	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 19:59	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 19:59	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 19:59	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 19:59	123-91-1	
Ethylbenzene	**2.1**	ug/m3	1.7	0.82	1.92		03/05/17 19:59	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.9	0.36	1.92		03/05/17 19:59	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/05/17 19:59	87-68-3	
n-Hexane	**1.9**	ug/m3	1.4	0.69	1.92		03/05/17 19:59	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 19:59	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 19:59	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 19:59	79-20-9	
Methylcyclohexane	**0.96J**	ug/m3	1.6	0.46	1.92		03/05/17 19:59	108-87-2	
Methylene Chloride	**<1.0**	ug/m3	6.8	1.0	1.92		03/05/17 19:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 19:59	108-10-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_20_20170223 **Lab ID: 10380193003** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/05/17 19:59	1634-04-4	
2-Propanol	**4.2J**	ug/m3	4.8	0.46	1.92		03/05/17 19:59	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/05/17 19:59	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 19:59	79-34-5	
Tetrachloroethene	**98.1**	ug/m3	1.3	0.53	1.92		03/05/17 19:59	127-18-4	
Toluene	**101**	ug/m3	1.5	0.30	1.92		03/05/17 19:59	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/05/17 19:59	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/05/17 19:59	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/05/17 19:59	79-00-5	
Trichloroethene	**982**	ug/m3	1.1	0.53	1.92		03/05/17 19:59	79-01-6	
Trichloroethene	**1720**	ug/m3	21.1	10.6	38.4		03/06/17 12:14	79-01-6	
Trichlorofluoromethane	**1.8J**	ug/m3	2.2	0.25	1.92		03/05/17 19:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	**30.0**	ug/m3	3.1	0.58	1.92		03/05/17 19:59	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.9	0.24	1.92		03/05/17 19:59	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/05/17 19:59	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 19:59	75-01-4	
m&p-Xylene	**9.0**	ug/m3	3.4	1.5	1.92		03/05/17 19:59	179601-23-1	
o-Xylene	**2.1**	ug/m3	1.7	0.67	1.92		03/05/17 19:59	95-47-6	

Sample: VP-NYSDEC-5_30_20170223 **Lab ID: 10380193004** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**30.7**	ug/m3	4.9	1.7	2.01		03/05/17 20:31	67-64-1	
Allyl chloride	**<0.46**	ug/m3	3.2	0.46	2.01		03/05/17 20:31	107-05-1	
Benzene	**<0.25**	ug/m3	0.65	0.25	2.01		03/05/17 20:31	71-43-2	
Bromodichloromethane	**<0.39**	ug/m3	2.7	0.39	2.01		03/05/17 20:31	75-27-4	
Bromoform	**<1.8**	ug/m3	4.2	1.8	2.01		03/05/17 20:31	75-25-2	
Bromomethane	**<0.62**	ug/m3	1.6	0.62	2.01		03/05/17 20:31	74-83-9	
1,3-Butadiene	**<0.35**	ug/m3	0.90	0.35	2.01		03/05/17 20:31	106-99-0	
2-Butanone (MEK)	**3.8J**	ug/m3	6.0	0.46	2.01		03/05/17 20:31	78-93-3	
Carbon disulfide	**<0.20**	ug/m3	1.3	0.20	2.01		03/05/17 20:31	75-15-0	
Carbon tetrachloride	**56.6**	ug/m3	1.3	0.39	2.01		03/05/17 20:31	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		03/05/17 20:31	108-90-7	
Chlorodifluoromethane	**151**	ug/m3	1.4	0.55	2.01		03/05/17 20:31	75-45-6	
Chloroethane	**<0.39**	ug/m3	1.1	0.39	2.01		03/05/17 20:31	75-00-3	
Chloroform	**212**	ug/m3	1.0	0.38	2.01		03/05/17 20:31	67-66-3	
Chloromethane	**<0.22**	ug/m3	0.84	0.22	2.01		03/05/17 20:31	74-87-3	
Chloropentafluoroethane	**<6.5**	ug/m3	6.5	6.5	2.01		03/05/17 20:31	76-15-3	CL
Cyclohexane	**7.4**	ug/m3	1.4	0.64	2.01		03/05/17 20:31	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.9**	ug/m3	9.9	9.9	2.01		03/05/17 20:31	96-12-8	
Dibromochloromethane	**<1.7**	ug/m3	3.5	1.7	2.01		03/05/17 20:31	124-48-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_30_20170223 **Lab ID: 10380193004** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.1	1.6	2.01		03/05/17 20:31	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 20:31	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.5	1.1	2.01		03/05/17 20:31	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 20:31	106-46-7	
Dichlorodifluoromethane	**7.9**	ug/m3	2.0	0.96	2.01		03/05/17 20:31	75-71-8	
1,1-Dichloroethane	**2.4**	ug/m3	1.6	0.32	2.01		03/05/17 20:31	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/m3	0.82	0.41	2.01		03/05/17 20:31	107-06-2	
1,1-Dichloroethene	**5.3**	ug/m3	1.6	0.48	2.01		03/05/17 20:31	75-35-4	
cis-1,2-Dichloroethene	**441**	ug/m3	1.6	0.49	2.01		03/05/17 20:31	156-59-2	
cis-1,2-Dichloroethene	**992**	ug/m3	521	158	643.2		03/06/17 12:42	156-59-2	A3
trans-1,2-Dichloroethene	**39.5**	ug/m3	1.6	0.77	2.01		03/05/17 20:31	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/m3	1.9	0.54	2.01		03/05/17 20:31	78-87-5	
cis-1,3-Dichloropropene	**<0.74**	ug/m3	1.8	0.74	2.01		03/05/17 20:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/m3	1.8	0.52	2.01		03/05/17 20:31	10061-02-6	
Dichlorotetrafluoroethane	**<0.62**	ug/m3	2.9	0.62	2.01		03/05/17 20:31	76-14-2	
Freon 123	**<6.4**	ug/m3	6.4	6.4	2.01		03/05/17 20:31	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.71**	ug/m3	7.4	0.71	2.01		03/05/17 20:31	123-91-1	
Ethylbenzene	**15.9**	ug/m3	1.8	0.85	2.01		03/05/17 20:31	100-41-4	
4-Ethyltoluene	**1.6J**	ug/m3	2.0	0.38	2.01		03/05/17 20:31	622-96-8	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	4.4	1.3	2.01		03/05/17 20:31	87-68-3	
n-Hexane	**2.3**	ug/m3	1.4	0.72	2.01		03/05/17 20:31	110-54-3	
2-Hexanone	**<0.82**	ug/m3	8.4	0.82	2.01		03/05/17 20:31	591-78-6	
Isopropylbenzene (Cumene)	**<0.28**	ug/m3	5.0	0.28	2.01		03/05/17 20:31	98-82-8	
Methyl acetate	**17.9**	ug/m3	3.1	3.1	2.01		03/05/17 20:31	79-20-9	
Methylcyclohexane	**3.6**	ug/m3	1.6	0.49	2.01		03/05/17 20:31	108-87-2	
Methylene Chloride	**149**	ug/m3	7.1	1.1	2.01		03/05/17 20:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.44**	ug/m3	8.4	0.44	2.01		03/05/17 20:31	108-10-1	
Methyl-tert-butyl ether	**<0.61**	ug/m3	7.4	0.61	2.01		03/05/17 20:31	1634-04-4	
2-Propanol	**5.3**	ug/m3	5.0	0.48	2.01		03/05/17 20:31	67-63-0	
Styrene	**1.1J**	ug/m3	1.7	0.39	2.01		03/05/17 20:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	1.4	0.66	2.01		03/05/17 20:31	79-34-5	
Tetrachloroethene	**2060**	ug/m3	1.4	0.56	2.01		03/05/17 20:31	127-18-4	
Tetrachloroethene	**8450**	ug/m3	443	179	643.2		03/06/17 12:42	127-18-4	A3
Toluene	**31.1**	ug/m3	1.5	0.31	2.01		03/05/17 20:31	108-88-3	
1,2,4-Trichlorobenzene	**<1.8**	ug/m3	7.6	1.8	2.01		03/05/17 20:31	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	2.2	0.50	2.01		03/05/17 20:31	71-55-6	
1,1,2-Trichloroethane	**4.2**	ug/m3	1.1	0.49	2.01		03/05/17 20:31	79-00-5	
Trichloroethene	**6840**	ug/m3	1.1	0.55	2.01		03/05/17 20:31	79-01-6	
Trichloroethene	**100000**	ug/m3	354	178	643.2		03/06/17 12:42	79-01-6	A3
Trichlorofluoromethane	**39.9**	ug/m3	2.3	0.27	2.01		03/05/17 20:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	**4470**	ug/m3	3.2	0.61	2.01		03/05/17 20:31	76-13-1	
1,1,2-Trichlorotrifluoroethane	**26500**	ug/m3	1030	194	643.2		03/06/17 12:42	76-13-1	A3
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	2.0	0.25	2.01		03/05/17 20:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.37**	ug/m3	2.0	0.37	2.01		03/05/17 20:31	108-67-8	
Vinyl chloride	**<0.39**	ug/m3	0.52	0.39	2.01		03/05/17 20:31	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_30_20170223 **Lab ID: 10380193004** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
m&p-Xylene	**59.1**	ug/m3	3.6	1.6	2.01		03/05/17 20:31	179601-23-1	
o-Xylene	**13.7**	ug/m3	1.8	0.71	2.01		03/05/17 20:31	95-47-6	

Sample: VP-NYSDEC-5_40_20170223 **Lab ID: 10380193005** Collected: 02/23/17 13:03 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.0**	ug/m3	4.4	1.5	1.83		03/05/17 21:02	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/05/17 21:02	107-05-1	
Benzene	**1.7**	ug/m3	0.59	0.22	1.83		03/05/17 21:02	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/05/17 21:02	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/05/17 21:02	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/05/17 21:02	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/05/17 21:02	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/05/17 21:02	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/05/17 21:02	75-15-0	
Carbon tetrachloride	**16.6**	ug/m3	1.2	0.35	1.83		03/05/17 21:02	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/05/17 21:02	108-90-7	
Chlorodifluoromethane	**170**	ug/m3	1.3	0.51	1.83		03/05/17 21:02	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/05/17 21:02	75-00-3	
Chloroform	**134**	ug/m3	0.91	0.35	1.83		03/05/17 21:02	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/05/17 21:02	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/05/17 21:02	76-15-3	CL
Cyclohexane	**4.5**	ug/m3	1.3	0.58	1.83		03/05/17 21:02	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/05/17 21:02	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/05/17 21:02	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/05/17 21:02	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/05/17 21:02	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/05/17 21:02	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/05/17 21:02	106-46-7	
Dichlorodifluoromethane	**<0.88**	ug/m3	1.8	0.88	1.83		03/05/17 21:02	75-71-8	
1,1-Dichloroethane	**7.5**	ug/m3	1.5	0.29	1.83		03/05/17 21:02	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/05/17 21:02	107-06-2	
1,1-Dichloroethene	**7.6**	ug/m3	1.5	0.44	1.83		03/05/17 21:02	75-35-4	
cis-1,2-Dichloroethene	**1670**	ug/m3	1.5	0.45	1.83		03/05/17 21:02	156-59-2	
cis-1,2-Dichloroethene	**14600**	ug/m3	7590	2300	9369.6		03/06/17 13:10	156-59-2	A3
trans-1,2-Dichloroethene	**142**	ug/m3	1.5	0.70	1.83		03/05/17 21:02	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/05/17 21:02	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/05/17 21:02	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/05/17 21:02	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/05/17 21:02	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/05/17 21:02	306-83-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_40_20170223 **Lab ID: 10380193005** Collected: 02/23/17 13:03 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/05/17 21:02	123-91-1	
Ethylbenzene	**3.3**	ug/m3	1.6	0.78	1.83		03/05/17 21:02	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.8	0.34	1.83		03/05/17 21:02	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/05/17 21:02	87-68-3	
n-Hexane	**1.6**	ug/m3	1.3	0.65	1.83		03/05/17 21:02	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/05/17 21:02	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/05/17 21:02	98-82-8	
Methyl acetate	**14.8**	ug/m3	2.8	2.8	1.83		03/05/17 21:02	79-20-9	
Methylcyclohexane	**2.9**	ug/m3	1.5	0.44	1.83		03/05/17 21:02	108-87-2	
Methylene Chloride	**124**	ug/m3	6.5	0.99	1.83		03/05/17 21:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/05/17 21:02	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/05/17 21:02	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/05/17 21:02	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/05/17 21:02	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/05/17 21:02	79-34-5	
Tetrachloroethene	**3900**	ug/m3	1.3	0.51	1.83		03/05/17 21:02	127-18-4	
Tetrachloroethene	**59300**	ug/m3	6460	2600	9369.6		03/06/17 13:10	127-18-4	A3
Toluene	**13.3**	ug/m3	1.4	0.28	1.83		03/05/17 21:02	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/05/17 21:02	120-82-1	
1,1,1-Trichloroethane	**1.2J**	ug/m3	2.0	0.45	1.83		03/05/17 21:02	71-55-6	
1,1,2-Trichloroethane	**26.4**	ug/m3	1.0	0.45	1.83		03/05/17 21:02	79-00-5	
Trichloroethene	**9620**	ug/m3	1.0	0.51	1.83		03/05/17 21:02	79-01-6	
Trichloroethene	**564000**	ug/m3	5150	2590	9369.6		03/06/17 13:10	79-01-6	A3
Trichlorofluoromethane	**33.8**	ug/m3	2.1	0.24	1.83		03/05/17 21:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3660**	ug/m3	2.9	0.55	1.83		03/05/17 21:02	76-13-1	
1,1,2-Trichlorotrifluoroethane	**50300**	ug/m3	15000	2820	9369.6		03/06/17 13:10	76-13-1	A3
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/05/17 21:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/05/17 21:02	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/05/17 21:02	75-01-4	
m&p-Xylene	**12.2**	ug/m3	3.2	1.4	1.83		03/05/17 21:02	179601-23-1	
o-Xylene	**2.8**	ug/m3	1.6	0.64	1.83		03/05/17 21:02	95-47-6	

Sample: VP-NYSDEC-5_50_20170223 **Lab ID: 10380193006** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**9.1**	ug/m3	4.4	1.5	1.83		03/05/17 21:33	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/05/17 21:33	107-05-1	
Benzene	**<0.22**	ug/m3	0.59	0.22	1.83		03/05/17 21:33	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/05/17 21:33	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/05/17 21:33	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/05/17 21:33	74-83-9	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_50_20170223 **Lab ID: 10380193006** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/05/17 21:33	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/05/17 21:33	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/05/17 21:33	75-15-0	
Carbon tetrachloride	**3.2**	ug/m3	1.2	0.35	1.83		03/05/17 21:33	56-23-5	
Chlorobenzene	**0.94J**	ug/m3	1.7	0.25	1.83		03/05/17 21:33	108-90-7	
Chlorodifluoromethane	**77.3**	ug/m3	1.3	0.51	1.83		03/05/17 21:33	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/05/17 21:33	75-00-3	
Chloroform	**99.5**	ug/m3	0.91	0.35	1.83		03/05/17 21:33	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/05/17 21:33	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/05/17 21:33	76-15-3	
Cyclohexane	**1.7**	ug/m3	1.3	0.58	1.83		03/05/17 21:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/05/17 21:33	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/05/17 21:33	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/05/17 21:33	106-93-4	
1,2-Dichlorobenzene	**3.7**	ug/m3	2.2	0.94	1.83		03/05/17 21:33	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/05/17 21:33	541-73-1	
1,4-Dichlorobenzene	**1.2J**	ug/m3	2.2	0.91	1.83		03/05/17 21:33	106-46-7	
Dichlorodifluoromethane	**1.9**	ug/m3	1.8	0.88	1.83		03/05/17 21:33	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/05/17 21:33	75-34-3	
1,2-Dichloroethane	**1.8**	ug/m3	0.75	0.38	1.83		03/05/17 21:33	107-06-2	
1,1-Dichloroethene	**27.8**	ug/m3	1.5	0.44	1.83		03/05/17 21:33	75-35-4	
cis-1,2-Dichloroethene	**550**	ug/m3	1.5	0.45	1.83		03/05/17 21:33	156-59-2	
cis-1,2-Dichloroethene	**<2300**	ug/m3	7590	2300	9369.6		03/06/17 13:38	156-59-2	A3
trans-1,2-Dichloroethene	**27.8**	ug/m3	1.5	0.70	1.83		03/05/17 21:33	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/05/17 21:33	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/05/17 21:33	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/05/17 21:33	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/05/17 21:33	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/05/17 21:33	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/05/17 21:33	123-91-1	
Ethylbenzene	**4.6**	ug/m3	1.6	0.78	1.83		03/05/17 21:33	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.8	0.34	1.83		03/05/17 21:33	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/05/17 21:33	87-68-3	
n-Hexane	**0.83J**	ug/m3	1.3	0.65	1.83		03/05/17 21:33	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/05/17 21:33	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/05/17 21:33	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/05/17 21:33	79-20-9	
Methylcyclohexane	**0.95J**	ug/m3	1.5	0.44	1.83		03/05/17 21:33	108-87-2	
Methylene Chloride	**3.5J**	ug/m3	6.5	0.99	1.83		03/05/17 21:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/05/17 21:33	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/05/17 21:33	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/05/17 21:33	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/05/17 21:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/05/17 21:33	79-34-5	
Tetrachloroethene	**1110**	ug/m3	1.3	0.51	1.83		03/05/17 21:33	127-18-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-NYSDEC-5_50_20170223 **Lab ID: 10380193006** Collected: 02/23/17 12:08 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**6860**	ug/m3	6460	2600	9369.6		03/06/17 13:38	127-18-4	A3
Toluene	**12.1**	ug/m3	1.4	0.28	1.83		03/05/17 21:33	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/05/17 21:33	120-82-1	
1,1,1-Trichloroethane	**1.5J**	ug/m3	2.0	0.45	1.83		03/05/17 21:33	71-55-6	
1,1,2-Trichloroethane	**162**	ug/m3	1.0	0.45	1.83		03/05/17 21:33	79-00-5	
Trichloroethene	**12400**	ug/m3	1.0	0.51	1.83		03/05/17 21:33	79-01-6	
Trichloroethene	**848000**	ug/m3	5150	2590	9369.6		03/06/17 13:38	79-01-6	A3
Trichlorofluoromethane	**8.4**	ug/m3	2.1	0.24	1.83		03/05/17 21:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	**239**	ug/m3	2.9	0.55	1.83		03/05/17 21:33	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/05/17 21:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/05/17 21:33	108-67-8	
Vinyl chloride	**1.3**	ug/m3	0.48	0.36	1.83		03/05/17 21:33	75-01-4	
m&p-Xylene	**17.0**	ug/m3	3.2	1.4	1.83		03/05/17 21:33	179601-23-1	
o-Xylene	**3.9**	ug/m3	1.6	0.64	1.83		03/05/17 21:33	95-47-6	

Sample: VP-9_10_20170223 **Lab ID: 10380193007** Collected: 02/23/17 11:56 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**12.6**	ug/m3	4.6	1.6	1.92		03/05/17 22:04	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 22:04	107-05-1	
Benzene	**0.85**	ug/m3	0.62	0.23	1.92		03/05/17 22:04	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 22:04	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 22:04	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 22:04	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 22:04	106-99-0	
2-Butanone (MEK)	**<0.44**	ug/m3	5.8	0.44	1.92		03/05/17 22:04	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 22:04	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/05/17 22:04	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 22:04	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/05/17 22:04	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 22:04	75-00-3	
Chloroform	**2.4**	ug/m3	0.95	0.36	1.92		03/05/17 22:04	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/05/17 22:04	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 22:04	76-15-3	CL
Cyclohexane	**2.9**	ug/m3	1.3	0.61	1.92		03/05/17 22:04	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 22:04	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 22:04	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 22:04	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 22:04	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 22:04	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 22:04	106-46-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_10_20170223 **Lab ID: 10380193007** Collected: 02/23/17 11:56 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Dichlorodifluoromethane	**2.1**	ug/m3	1.9	0.92	1.92		03/05/17 22:04	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 22:04	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 22:04	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 22:04	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/05/17 22:04	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/05/17 22:04	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 22:04	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 22:04	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 22:04	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 22:04	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 22:04	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 22:04	123-91-1	
Ethylbenzene	**5.8**	ug/m3	1.7	0.82	1.92		03/05/17 22:04	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.9	0.36	1.92		03/05/17 22:04	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/05/17 22:04	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.4	0.69	1.92		03/05/17 22:04	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 22:04	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 22:04	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 22:04	79-20-9	
Methylcyclohexane	**1.1J**	ug/m3	1.6	0.46	1.92		03/05/17 22:04	108-87-2	
Methylene Chloride	**8.7**	ug/m3	6.8	1.0	1.92		03/05/17 22:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 22:04	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/05/17 22:04	1634-04-4	
2-Propanol	**<0.46**	ug/m3	4.8	0.46	1.92		03/05/17 22:04	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/05/17 22:04	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 22:04	79-34-5	
Tetrachloroethene	**13.4**	ug/m3	1.3	0.53	1.92		03/05/17 22:04	127-18-4	
Toluene	**16.6**	ug/m3	1.5	0.30	1.92		03/05/17 22:04	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/05/17 22:04	120-82-1	
1,1,1-Trichloroethane	**1.4J**	ug/m3	2.1	0.47	1.92		03/05/17 22:04	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/05/17 22:04	79-00-5	
Trichloroethene	**108**	ug/m3	1.1	0.53	1.92		03/05/17 22:04	79-01-6	
Trichlorofluoromethane	**1.1J**	ug/m3	2.2	0.25	1.92		03/05/17 22:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/05/17 22:04	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.9	0.24	1.92		03/05/17 22:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/05/17 22:04	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 22:04	75-01-4	
m&p-Xylene	**23.0**	ug/m3	3.4	1.5	1.92		03/05/17 22:04	179601-23-1	
o-Xylene	**5.4**	ug/m3	1.7	0.67	1.92		03/05/17 22:04	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_20_20170223 **Lab ID: 10380193008** Collected: 02/23/17 12:04 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**98.7**	ug/m3	4.6	1.6	1.92		03/05/17 22:37	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 22:37	107-05-1	
Benzene	**1.3**	ug/m3	0.62	0.23	1.92		03/05/17 22:37	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 22:37	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 22:37	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 22:37	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 22:37	106-99-0	
2-Butanone (MEK)	**6.9**	ug/m3	5.8	0.44	1.92		03/05/17 22:37	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 22:37	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/05/17 22:37	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 22:37	108-90-7	
Chlorodifluoromethane	**94.1**	ug/m3	1.4	0.53	1.92		03/05/17 22:37	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 22:37	75-00-3	
Chloroform	**9.3**	ug/m3	0.95	0.36	1.92		03/05/17 22:37	67-66-3	
Chloromethane	**1.4**	ug/m3	0.81	0.21	1.92		03/05/17 22:37	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 22:37	76-15-3	CL
Cyclohexane	**1.8**	ug/m3	1.3	0.61	1.92		03/05/17 22:37	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 22:37	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 22:37	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 22:37	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 22:37	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 22:37	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 22:37	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.9	0.92	1.92		03/05/17 22:37	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 22:37	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 22:37	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 22:37	75-35-4	
cis-1,2-Dichloroethene	**63.5**	ug/m3	1.6	0.47	1.92		03/05/17 22:37	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/05/17 22:37	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 22:37	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 22:37	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 22:37	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 22:37	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 22:37	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 22:37	123-91-1	
Ethylbenzene	**3.7**	ug/m3	1.7	0.82	1.92		03/05/17 22:37	100-41-4	
4-Ethyltoluene	**1.6J**	ug/m3	1.9	0.36	1.92		03/05/17 22:37	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/05/17 22:37	87-68-3	
n-Hexane	**2.9**	ug/m3	1.4	0.69	1.92		03/05/17 22:37	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 22:37	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 22:37	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 22:37	79-20-9	
Methylcyclohexane	**0.97J**	ug/m3	1.6	0.46	1.92		03/05/17 22:37	108-87-2	
Methylene Chloride	**12.3**	ug/m3	6.8	1.0	1.92		03/05/17 22:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 22:37	108-10-1	
Methyl-tert-butyl ether	**3.6J**	ug/m3	7.0	0.58	1.92		03/05/17 22:37	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_20_20170223 **Lab ID: 10380193008** Collected: 02/23/17 12:04 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**138**	ug/m3	4.8	0.46	1.92		03/05/17 22:37	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/05/17 22:37	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 22:37	79-34-5	
Tetrachloroethene	**340**	ug/m3	1.3	0.53	1.92		03/05/17 22:37	127-18-4	
Toluene	**20.1**	ug/m3	1.5	0.30	1.92		03/05/17 22:37	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/05/17 22:37	120-82-1	
1,1,1-Trichloroethane	**3.6**	ug/m3	2.1	0.47	1.92		03/05/17 22:37	71-55-6	
1,1,2-Trichloroethane	**10.9**	ug/m3	1.1	0.47	1.92		03/05/17 22:37	79-00-5	
Trichloroethene	**594**	ug/m3	1.1	0.53	1.92		03/05/17 22:37	79-01-6	
Trichloroethene	**638**	ug/m3	28.3	14.2	51.46		03/06/17 15:58	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.2	0.25	1.92		03/05/17 22:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	**14.2**	ug/m3	3.1	0.58	1.92		03/05/17 22:37	76-13-1	
1,2,4-Trimethylbenzene	**3.5**	ug/m3	1.9	0.24	1.92		03/05/17 22:37	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.9	0.35	1.92		03/05/17 22:37	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 22:37	75-01-4	
m&p-Xylene	**15.6**	ug/m3	3.4	1.5	1.92		03/05/17 22:37	179601-23-1	
o-Xylene	**3.8**	ug/m3	1.7	0.67	1.92		03/05/17 22:37	95-47-6	

Sample: VP-9_30_20170223 **Lab ID: 10380193009** Collected: 02/23/17 12:10 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.3**	ug/m3	4.4	1.5	1.83		03/05/17 23:10	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/05/17 23:10	107-05-1	
Benzene	**2.7**	ug/m3	0.59	0.22	1.83		03/05/17 23:10	71-43-2	
Bromodichloromethane	**2.0J**	ug/m3	2.5	0.36	1.83		03/05/17 23:10	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/05/17 23:10	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/05/17 23:10	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/05/17 23:10	106-99-0	
2-Butanone (MEK)	**3.4J**	ug/m3	5.5	0.42	1.83		03/05/17 23:10	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/05/17 23:10	75-15-0	
Carbon tetrachloride	**3.8**	ug/m3	1.2	0.35	1.83		03/05/17 23:10	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/05/17 23:10	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/05/17 23:10	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/05/17 23:10	75-00-3	
Chloroform	**95.8**	ug/m3	0.91	0.35	1.83		03/05/17 23:10	67-66-3	
Chloromethane	**0.42J**	ug/m3	0.77	0.20	1.83		03/05/17 23:10	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/05/17 23:10	76-15-3	CL
Cyclohexane	**1.2J**	ug/m3	1.3	0.58	1.83		03/05/17 23:10	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/05/17 23:10	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/05/17 23:10	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/05/17 23:10	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/05/17 23:10	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_30_20170223 **Lab ID: 10380193009** Collected: 02/23/17 12:10 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/05/17 23:10	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/05/17 23:10	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.8	0.88	1.83		03/05/17 23:10	75-71-8	
1,1-Dichloroethane	**1.9**	ug/m3	1.5	0.29	1.83		03/05/17 23:10	75-34-3	
1,2-Dichloroethane	**2.3**	ug/m3	0.75	0.38	1.83		03/05/17 23:10	107-06-2	
1,1-Dichloroethene	**3.8**	ug/m3	1.5	0.44	1.83		03/05/17 23:10	75-35-4	
cis-1,2-Dichloroethene	**880**	ug/m3	1.5	0.45	1.83		03/05/17 23:10	156-59-2	
cis-1,2-Dichloroethene	**1810**	ug/m3	237	72.0	292.8		03/06/17 14:06	156-59-2	A3
trans-1,2-Dichloroethene	**5.4**	ug/m3	1.5	0.70	1.83		03/05/17 23:10	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/05/17 23:10	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/05/17 23:10	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/05/17 23:10	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/05/17 23:10	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/05/17 23:10	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/05/17 23:10	123-91-1	
Ethylbenzene	**2.9**	ug/m3	1.6	0.78	1.83		03/05/17 23:10	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.8	0.34	1.83		03/05/17 23:10	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/05/17 23:10	87-68-3	
n-Hexane	**3.4**	ug/m3	1.3	0.65	1.83		03/05/17 23:10	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/05/17 23:10	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/05/17 23:10	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/05/17 23:10	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/05/17 23:10	108-87-2	
Methylene Chloride	**32.4**	ug/m3	6.5	0.99	1.83		03/05/17 23:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/05/17 23:10	108-10-1	
Methyl-tert-butyl ether	**9.2**	ug/m3	6.7	0.55	1.83		03/05/17 23:10	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/05/17 23:10	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/05/17 23:10	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/05/17 23:10	79-34-5	
Tetrachloroethene	**1090**	ug/m3	1.3	0.51	1.83		03/05/17 23:10	127-18-4	
Tetrachloroethene	**2380**	ug/m3	202	81.4	292.8		03/06/17 14:06	127-18-4	A3
Toluene	**14.4**	ug/m3	1.4	0.28	1.83		03/05/17 23:10	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/05/17 23:10	120-82-1	
1,1,1-Trichloroethane	**1.3J**	ug/m3	2.0	0.45	1.83		03/05/17 23:10	71-55-6	
1,1,2-Trichloroethane	**44.8**	ug/m3	1.0	0.45	1.83		03/05/17 23:10	79-00-5	
Trichloroethene	**3230**	ug/m3	1.0	0.51	1.83		03/05/17 23:10	79-01-6	
Trichloroethene	**15300**	ug/m3	161	80.8	292.8		03/06/17 14:06	79-01-6	A3
Trichlorofluoromethane	**1.9J**	ug/m3	2.1	0.24	1.83		03/05/17 23:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	**137**	ug/m3	2.9	0.55	1.83		03/05/17 23:10	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.8	0.23	1.83		03/05/17 23:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/05/17 23:10	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/05/17 23:10	75-01-4	
m&p-Xylene	**11.7**	ug/m3	3.2	1.4	1.83		03/05/17 23:10	179601-23-1	
o-Xylene	**2.8**	ug/m3	1.6	0.64	1.83		03/05/17 23:10	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_40_20170223 **Lab ID: 10380193010** Collected: 02/23/17 12:10 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.6**	ug/m3	4.2	1.5	1.75		03/05/17 23:41	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/05/17 23:41	107-05-1	
Benzene	**91.1**	ug/m3	0.57	0.21	1.75		03/05/17 23:41	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/05/17 23:41	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/05/17 23:41	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/05/17 23:41	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/05/17 23:41	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/05/17 23:41	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/05/17 23:41	75-15-0	
Carbon tetrachloride	**32.4**	ug/m3	1.1	0.34	1.75		03/05/17 23:41	56-23-5	
Chlorobenzene	**1.0J**	ug/m3	1.6	0.23	1.75		03/05/17 23:41	108-90-7	
Chlorodifluoromethane	**58.0**	ug/m3	1.3	0.48	1.75		03/05/17 23:41	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/05/17 23:41	75-00-3	
Chloroform	**648**	ug/m3	0.87	0.33	1.75		03/05/17 23:41	67-66-3	
Chloroform	**3740J**	ug/m3	4440	1700	8960		03/06/17 15:30	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/05/17 23:41	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 23:41	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/05/17 23:41	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/05/17 23:41	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/05/17 23:41	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/05/17 23:41	106-93-4	
1,2-Dichlorobenzene	**1.6J**	ug/m3	2.1	0.90	1.75		03/05/17 23:41	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/05/17 23:41	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/05/17 23:41	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	1.8	0.84	1.75		03/05/17 23:41	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/05/17 23:41	75-34-3	
1,2-Dichloroethane	**17.5**	ug/m3	0.72	0.36	1.75		03/05/17 23:41	107-06-2	
1,1-Dichloroethene	**589**	ug/m3	1.4	0.42	1.75		03/05/17 23:41	75-35-4	
1,1-Dichloroethene	**2910J**	ug/m3	7260	2130	8960		03/06/17 15:30	75-35-4	
cis-1,2-Dichloroethene	**6490**	ug/m3	1.4	0.43	1.75		03/05/17 23:41	156-59-2	
cis-1,2-Dichloroethene	**342000**	ug/m3	7260	2200	8960		03/06/17 15:30	156-59-2	A3
trans-1,2-Dichloroethene	**377**	ug/m3	1.4	0.67	1.75		03/05/17 23:41	156-60-5	
trans-1,2-Dichloroethene	**<3440**	ug/m3	7260	3440	8960		03/06/17 15:30	156-60-5	A3
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/05/17 23:41	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/05/17 23:41	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/05/17 23:41	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/05/17 23:41	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/05/17 23:41	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/05/17 23:41	123-91-1	
Ethylbenzene	**2.9**	ug/m3	1.5	0.74	1.75		03/05/17 23:41	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.8	0.33	1.75		03/05/17 23:41	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/05/17 23:41	87-68-3	
n-Hexane	**7.6**	ug/m3	1.3	0.62	1.75		03/05/17 23:41	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/05/17 23:41	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/05/17 23:41	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/05/17 23:41	79-20-9	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_40_20170223 **Lab ID: 10380193010** Collected: 02/23/17 12:10 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methylcyclohexane	**11.8**	ug/m3	1.4	0.42	1.75		03/05/17 23:41	108-87-2	
Methylene Chloride	**<0.95**	ug/m3	6.2	0.95	1.75		03/05/17 23:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/05/17 23:41	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/05/17 23:41	1634-04-4	
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/05/17 23:41	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/05/17 23:41	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/05/17 23:41	79-34-5	
Tetrachloroethene	**6760**	ug/m3	1.2	0.49	1.75		03/05/17 23:41	127-18-4	
Tetrachloroethene	**183000**	ug/m3	6170	2490	8960		03/06/17 15:30	127-18-4	A3
Toluene	**17.8**	ug/m3	1.3	0.27	1.75		03/05/17 23:41	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/05/17 23:41	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/05/17 23:41	71-55-6	
1,1,2-Trichloroethane	**94.1**	ug/m3	0.96	0.43	1.75		03/05/17 23:41	79-00-5	
Trichloroethene	**11700**	ug/m3	0.96	0.48	1.75		03/05/17 23:41	79-01-6	
Trichloroethene	**1310000**	ug/m3	4930	2470	8960		03/06/17 15:30	79-01-6	A3
Trichlorofluoromethane	**140**	ug/m3	2.0	0.23	1.75		03/05/17 23:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	**2110**	ug/m3	2.8	0.53	1.75		03/05/17 23:41	76-13-1	
1,1,2-Trichlorotrifluoroethane	**473000**	ug/m3	14300	2700	8960		03/06/17 15:30	76-13-1	A3
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/05/17 23:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/05/17 23:41	108-67-8	
Vinyl chloride	**76.2**	ug/m3	0.46	0.34	1.75		03/05/17 23:41	75-01-4	
m&p-Xylene	**7.4**	ug/m3	3.1	1.4	1.75		03/05/17 23:41	179601-23-1	
o-Xylene	**2.2**	ug/m3	1.5	0.61	1.75		03/05/17 23:41	95-47-6	

Sample: VP-9_50_20170223 **Lab ID: 10380193011** Collected: 02/23/17 11:56 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**30.5**	ug/m3	4.4	1.5	1.83		03/06/17 00:39	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/06/17 00:39	107-05-1	
Benzene	**3.4**	ug/m3	0.59	0.22	1.83		03/06/17 00:39	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/06/17 00:39	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/06/17 00:39	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/06/17 00:39	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/06/17 00:39	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/06/17 00:39	78-93-3	
Carbon disulfide	**0.68J**	ug/m3	1.2	0.18	1.83		03/06/17 00:39	75-15-0	
Carbon tetrachloride	**1.2**	ug/m3	1.2	0.35	1.83		03/06/17 00:39	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/06/17 00:39	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/06/17 00:39	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/06/17 00:39	75-00-3	
Chloroform	**36.4**	ug/m3	0.91	0.35	1.83		03/06/17 00:39	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/06/17 00:39	74-87-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_50_20170223 **Lab ID: 10380193011** Collected: 02/23/17 11:56 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/06/17 00:39	76-15-3	
Cyclohexane	**5.0**	ug/m3	1.3	0.58	1.83		03/06/17 00:39	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/06/17 00:39	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/06/17 00:39	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/06/17 00:39	106-93-4	
1,2-Dichlorobenzene	**3.2**	ug/m3	2.2	0.94	1.83		03/06/17 00:39	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/06/17 00:39	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/06/17 00:39	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.8	0.88	1.83		03/06/17 00:39	75-71-8	
1,1-Dichloroethane	**0.97J**	ug/m3	1.5	0.29	1.83		03/06/17 00:39	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/06/17 00:39	107-06-2	
1,1-Dichloroethene	**12.4**	ug/m3	1.5	0.44	1.83		03/06/17 00:39	75-35-4	
cis-1,2-Dichloroethene	**799**	ug/m3	1.5	0.45	1.83		03/06/17 00:39	156-59-2	
cis-1,2-Dichloroethene	**1830**	ug/m3	237	72.0	292.8		03/06/17 14:34	156-59-2	A3
trans-1,2-Dichloroethene	**15.1**	ug/m3	1.5	0.70	1.83		03/06/17 00:39	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/06/17 00:39	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/06/17 00:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/06/17 00:39	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/06/17 00:39	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/06/17 00:39	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/06/17 00:39	123-91-1	
Ethylbenzene	**12.1**	ug/m3	1.6	0.78	1.83		03/06/17 00:39	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.8	0.34	1.83		03/06/17 00:39	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/06/17 00:39	87-68-3	
n-Hexane	**4.1**	ug/m3	1.3	0.65	1.83		03/06/17 00:39	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/06/17 00:39	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/06/17 00:39	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/06/17 00:39	79-20-9	
Methylcyclohexane	**2.8**	ug/m3	1.5	0.44	1.83		03/06/17 00:39	108-87-2	
Methylene Chloride	**6.0J**	ug/m3	6.5	0.99	1.83		03/06/17 00:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/06/17 00:39	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/06/17 00:39	1634-04-4	
2-Propanol	**9.3**	ug/m3	4.6	0.44	1.83		03/06/17 00:39	67-63-0	
Styrene	**1.0J**	ug/m3	1.6	0.35	1.83		03/06/17 00:39	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/06/17 00:39	79-34-5	
Tetrachloroethene	**1340**	ug/m3	1.3	0.51	1.83		03/06/17 00:39	127-18-4	
Tetrachloroethene	**3870**	ug/m3	202	81.4	292.8		03/06/17 14:34	127-18-4	A3
Toluene	**96.0**	ug/m3	1.4	0.28	1.83		03/06/17 00:39	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/06/17 00:39	120-82-1	
1,1,1-Trichloroethane	**6.7**	ug/m3	2.0	0.45	1.83		03/06/17 00:39	71-55-6	
1,1,2-Trichloroethane	**5.7**	ug/m3	1.0	0.45	1.83		03/06/17 00:39	79-00-5	
Trichloroethene	**3680**	ug/m3	1.0	0.51	1.83		03/06/17 00:39	79-01-6	
Trichloroethene	**26400**	ug/m3	161	80.8	292.8		03/06/17 14:34	79-01-6	A3
Trichlorofluoromethane	**3.8**	ug/m3	2.1	0.24	1.83		03/06/17 00:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	**294**	ug/m3	2.9	0.55	1.83		03/06/17 00:39	76-13-1	
1,2,4-Trimethylbenzene	**2.2**	ug/m3	1.8	0.23	1.83		03/06/17 00:39	95-63-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_50_20170223 **Lab ID: 10380193011** Collected: 02/23/17 11:56 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3,5-Trimethylbenzene	**1.1J**	ug/m3	1.8	0.33	1.83		03/06/17 00:39	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/06/17 00:39	75-01-4	
m&p-Xylene	**44.5**	ug/m3	3.2	1.4	1.83		03/06/17 00:39	179601-23-1	
o-Xylene	**10.7**	ug/m3	1.6	0.64	1.83		03/06/17 00:39	95-47-6	

Sample: VP-9_60_20170223 **Lab ID: 10380193012** Collected: 02/23/17 11:59 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.9**	ug/m3	4.4	1.5	1.83		03/06/17 01:10	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/06/17 01:10	107-05-1	
Benzene	**2.5**	ug/m3	0.59	0.22	1.83		03/06/17 01:10	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/06/17 01:10	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/06/17 01:10	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/06/17 01:10	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/06/17 01:10	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/06/17 01:10	78-93-3	
Carbon disulfide	**0.88J**	ug/m3	1.2	0.18	1.83		03/06/17 01:10	75-15-0	
Carbon tetrachloride	**1.1J**	ug/m3	1.2	0.35	1.83		03/06/17 01:10	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/06/17 01:10	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/06/17 01:10	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/06/17 01:10	75-00-3	
Chloroform	**40.2**	ug/m3	0.91	0.35	1.83		03/06/17 01:10	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/06/17 01:10	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/06/17 01:10	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/06/17 01:10	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/06/17 01:10	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/06/17 01:10	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/06/17 01:10	106-93-4	
1,2-Dichlorobenzene	**4.2**	ug/m3	2.2	0.94	1.83		03/06/17 01:10	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/06/17 01:10	541-73-1	
1,4-Dichlorobenzene	**1.1J**	ug/m3	2.2	0.91	1.83		03/06/17 01:10	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	0.88	1.83		03/06/17 01:10	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/06/17 01:10	75-34-3	
1,2-Dichloroethane	**0.94**	ug/m3	0.75	0.38	1.83		03/06/17 01:10	107-06-2	
1,1-Dichloroethene	**12.4**	ug/m3	1.5	0.44	1.83		03/06/17 01:10	75-35-4	
cis-1,2-Dichloroethene	**576**	ug/m3	1.5	0.45	1.83		03/06/17 01:10	156-59-2	
cis-1,2-Dichloroethene	**1210**	ug/m3	237	72.0	292.8		03/06/17 15:02	156-59-2	A3
trans-1,2-Dichloroethene	**12.7**	ug/m3	1.5	0.70	1.83		03/06/17 01:10	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/06/17 01:10	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/06/17 01:10	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/06/17 01:10	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/06/17 01:10	76-14-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_60_20170223 **Lab ID: 10380193012** Collected: 02/23/17 11:59 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/06/17 01:10	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/06/17 01:10	123-91-1	
Ethylbenzene	**3.3**	ug/m3	1.6	0.78	1.83		03/06/17 01:10	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.8	0.34	1.83		03/06/17 01:10	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/06/17 01:10	87-68-3	
n-Hexane	**2.2**	ug/m3	1.3	0.65	1.83		03/06/17 01:10	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/06/17 01:10	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/06/17 01:10	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/06/17 01:10	79-20-9	
Methylcyclohexane	**0.97J**	ug/m3	1.5	0.44	1.83		03/06/17 01:10	108-87-2	
Methylene Chloride	**5.4J**	ug/m3	6.5	0.99	1.83		03/06/17 01:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/06/17 01:10	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/06/17 01:10	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/06/17 01:10	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/06/17 01:10	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/06/17 01:10	79-34-5	
Tetrachloroethene	**1430**	ug/m3	1.3	0.51	1.83		03/06/17 01:10	127-18-4	
Tetrachloroethene	**4410**	ug/m3	202	81.4	292.8		03/06/17 15:02	127-18-4	A3
Toluene	**18.8**	ug/m3	1.4	0.28	1.83		03/06/17 01:10	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/06/17 01:10	120-82-1	
1,1,1-Trichloroethane	**9.7**	ug/m3	2.0	0.45	1.83		03/06/17 01:10	71-55-6	
1,1,2-Trichloroethane	**6.3**	ug/m3	1.0	0.45	1.83		03/06/17 01:10	79-00-5	
Trichloroethene	**3730**	ug/m3	1.0	0.51	1.83		03/06/17 01:10	79-01-6	
Trichloroethene	**26000**	ug/m3	161	80.8	292.8		03/06/17 15:02	79-01-6	A3
Trichlorofluoromethane	**4.1**	ug/m3	2.1	0.24	1.83		03/06/17 01:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	**279**	ug/m3	2.9	0.55	1.83		03/06/17 01:10	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.8	0.23	1.83		03/06/17 01:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/06/17 01:10	108-67-8	
Vinyl chloride	**1.0**	ug/m3	0.48	0.36	1.83		03/06/17 01:10	75-01-4	
m&p-Xylene	**12.8**	ug/m3	3.2	1.4	1.83		03/06/17 01:10	179601-23-1	
o-Xylene	**3.0**	ug/m3	1.6	0.64	1.83		03/06/17 01:10	95-47-6	

Sample: VP-105_5_20170223 **Lab ID: 10380193013** Collected: 02/23/17 12:50 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**74.9**	ug/m3	5.1	1.8	2.12		03/06/17 01:43	67-64-1	
Allyl chloride	**<0.48**	ug/m3	3.4	0.48	2.12		03/06/17 01:43	107-05-1	
Benzene	**2.7**	ug/m3	0.69	0.26	2.12		03/06/17 01:43	71-43-2	
Bromodichloromethane	**<0.41**	ug/m3	2.9	0.41	2.12		03/06/17 01:43	75-27-4	
Bromoform	**<1.9**	ug/m3	4.5	1.9	2.12		03/06/17 01:43	75-25-2	
Bromomethane	**<0.66**	ug/m3	1.7	0.66	2.12		03/06/17 01:43	74-83-9	
1,3-Butadiene	**<0.37**	ug/m3	0.95	0.37	2.12		03/06/17 01:43	106-99-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_5_20170223 **Lab ID: 10380193013** Collected: 02/23/17 12:50 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Butanone (MEK)	**<0.48**	ug/m3	6.4	0.48	2.12		03/06/17 01:43	78-93-3	
Carbon disulfide	**<0.21**	ug/m3	1.3	0.21	2.12		03/06/17 01:43	75-15-0	
Carbon tetrachloride	**<0.41**	ug/m3	1.4	0.41	2.12		03/06/17 01:43	56-23-5	
Chlorobenzene	**<0.28**	ug/m3	2.0	0.28	2.12		03/06/17 01:43	108-90-7	
Chlorodifluoromethane	**10.6**	ug/m3	1.5	0.59	2.12		03/06/17 01:43	75-45-6	
Chloroethane	**<0.41**	ug/m3	1.1	0.41	2.12		03/06/17 01:43	75-00-3	
Chloroform	**<0.40**	ug/m3	1.1	0.40	2.12		03/06/17 01:43	67-66-3	
Chloromethane	**1.8**	ug/m3	0.89	0.23	2.12		03/06/17 01:43	74-87-3	
Chloropentafluoroethane	**<6.8**	ug/m3	6.8	6.8	2.12		03/06/17 01:43	76-15-3	
Cyclohexane	**9.8**	ug/m3	1.5	0.67	2.12		03/06/17 01:43	110-82-7	
1,2-Dibromo-3-chloropropane	**<10.4**	ug/m3	10.4	10.4	2.12		03/06/17 01:43	96-12-8	
Dibromochloromethane	**<1.8**	ug/m3	3.7	1.8	2.12		03/06/17 01:43	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.3	1.6	2.12		03/06/17 01:43	106-93-4	
1,2-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/06/17 01:43	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/06/17 01:43	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/06/17 01:43	106-46-7	
Dichlorodifluoromethane	**3.8**	ug/m3	2.1	1.0	2.12		03/06/17 01:43	75-71-8	
1,1-Dichloroethane	**<0.33**	ug/m3	1.7	0.33	2.12		03/06/17 01:43	75-34-3	
1,2-Dichloroethane	**<0.43**	ug/m3	0.87	0.43	2.12		03/06/17 01:43	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/m3	1.7	0.50	2.12		03/06/17 01:43	75-35-4	
cis-1,2-Dichloroethene	**2.2**	ug/m3	1.7	0.52	2.12		03/06/17 01:43	156-59-2	
trans-1,2-Dichloroethene	**<0.81**	ug/m3	1.7	0.81	2.12		03/06/17 01:43	156-60-5	
1,2-Dichloropropane	**<0.57**	ug/m3	2.0	0.57	2.12		03/06/17 01:43	78-87-5	
cis-1,3-Dichloropropene	**<0.78**	ug/m3	2.0	0.78	2.12		03/06/17 01:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.55**	ug/m3	2.0	0.55	2.12		03/06/17 01:43	10061-02-6	
Dichlorotetrafluoroethane	**<0.66**	ug/m3	3.0	0.66	2.12		03/06/17 01:43	76-14-2	
Freon 123	**<6.7**	ug/m3	6.7	6.7	2.12		03/06/17 01:43	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.75**	ug/m3	7.8	0.75	2.12		03/06/17 01:43	123-91-1	
Ethylbenzene	**11.7**	ug/m3	1.9	0.90	2.12		03/06/17 01:43	100-41-4	
4-Ethyltoluene	**2.1J**	ug/m3	2.1	0.40	2.12		03/06/17 01:43	622-96-8	
Hexachloro-1,3-butadiene	**<1.4**	ug/m3	4.6	1.4	2.12		03/06/17 01:43	87-68-3	
n-Hexane	**41.1**	ug/m3	1.5	0.76	2.12		03/06/17 01:43	110-54-3	
2-Hexanone	**<0.87**	ug/m3	8.8	0.87	2.12		03/06/17 01:43	591-78-6	
Isopropylbenzene (Cumene)	**<0.29**	ug/m3	5.3	0.29	2.12		03/06/17 01:43	98-82-8	
Methyl acetate	**<3.3**	ug/m3	3.3	3.3	2.12		03/06/17 01:43	79-20-9	
Methylcyclohexane	**4.6**	ug/m3	1.7	0.51	2.12		03/06/17 01:43	108-87-2	
Methylene Chloride	**515**	ug/m3	7.5	1.1	2.12		03/06/17 01:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.46**	ug/m3	8.8	0.46	2.12		03/06/17 01:43	108-10-1	
Methyl-tert-butyl ether	**<0.64**	ug/m3	7.8	0.64	2.12		03/06/17 01:43	1634-04-4	
2-Propanol	**12.0**	ug/m3	5.3	0.51	2.12		03/06/17 01:43	67-63-0	
Styrene	**2.0**	ug/m3	1.8	0.41	2.12		03/06/17 01:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.70**	ug/m3	1.5	0.70	2.12		03/06/17 01:43	79-34-5	
Tetrachloroethene	**10.2**	ug/m3	1.5	0.59	2.12		03/06/17 01:43	127-18-4	
Toluene	**52.9**	ug/m3	1.6	0.33	2.12		03/06/17 01:43	108-88-3	
1,2,4-Trichlorobenzene	**<1.9**	ug/m3	8.0	1.9	2.12		03/06/17 01:43	120-82-1	
1,1,1-Trichloroethane	**<0.52**	ug/m3	2.4	0.52	2.12		03/06/17 01:43	71-55-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_5_20170223 **Lab ID: 10380193013** Collected: 02/23/17 12:50 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,2-Trichloroethane	**<0.52**	ug/m3	1.2	0.52	2.12		03/06/17 01:43	79-00-5	
Trichloroethene	**49.9**	ug/m3	1.2	0.59	2.12		03/06/17 01:43	79-01-6	
Trichlorofluoromethane	**2.2J**	ug/m3	2.4	0.28	2.12		03/06/17 01:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.5J**	ug/m3	3.4	0.64	2.12		03/06/17 01:43	76-13-1	
1,2,4-Trimethylbenzene	**3.6**	ug/m3	2.1	0.26	2.12		03/06/17 01:43	95-63-6	
1,3,5-Trimethylbenzene	**1.1J**	ug/m3	2.1	0.39	2.12		03/06/17 01:43	108-67-8	
Vinyl chloride	**<0.41**	ug/m3	0.55	0.41	2.12		03/06/17 01:43	75-01-4	
m&p-Xylene	**36.4**	ug/m3	3.8	1.7	2.12		03/06/17 01:43	179601-23-1	
o-Xylene	**10.4**	ug/m3	1.9	0.74	2.12		03/06/17 01:43	95-47-6	

Sample: VP-105_10_20170223 **Lab ID: 10380193014** Collected: 02/23/17 12:49 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.0**	ug/m3	4.2	1.5	1.75		03/07/17 18:33	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/07/17 18:33	107-05-1	
Benzene	**3.2**	ug/m3	0.57	0.21	1.75		03/07/17 18:33	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/07/17 18:33	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/07/17 18:33	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/07/17 18:33	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/07/17 18:33	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/07/17 18:33	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/07/17 18:33	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/07/17 18:33	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/07/17 18:33	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/07/17 18:33	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/07/17 18:33	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/07/17 18:33	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/07/17 18:33	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/07/17 18:33	76-15-3	
Cyclohexane	**120**	ug/m3	12.2	5.5	17.5		03/07/17 01:33	110-82-7	
Cyclohexane	**275**	ug/m3	1.2	0.55	1.75		03/07/17 18:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/07/17 18:33	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/07/17 18:33	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/07/17 18:33	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/07/17 18:33	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/07/17 18:33	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/07/17 18:33	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.8	0.84	1.75		03/07/17 18:33	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/07/17 18:33	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/07/17 18:33	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/07/17 18:33	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/07/17 18:33	156-59-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_10_20170223 **Lab ID: 10380193014** Collected: 02/23/17 12:49 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/07/17 18:33	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/07/17 18:33	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/07/17 18:33	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/07/17 18:33	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/07/17 18:33	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/07/17 18:33	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/07/17 18:33	123-91-1	
Ethylbenzene	**1.1J**	ug/m3	1.5	0.74	1.75		03/07/17 18:33	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.8	0.33	1.75		03/07/17 18:33	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/07/17 18:33	87-68-3	
n-Hexane	**293**	ug/m3	12.6	6.2	17.5		03/07/17 01:33	110-54-3	
n-Hexane	**554**	ug/m3	1.3	0.62	1.75		03/07/17 18:33	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/07/17 18:33	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/07/17 18:33	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/07/17 18:33	79-20-9	
Methylcyclohexane	**85.5**	ug/m3	1.4	0.42	1.75		03/07/17 18:33	108-87-2	
Methylene Chloride	**3.3J**	ug/m3	6.2	0.95	1.75		03/07/17 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/07/17 18:33	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/07/17 18:33	1634-04-4	
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/07/17 18:33	67-63-0	
Styrene	**0.82J**	ug/m3	1.5	0.34	1.75		03/07/17 18:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/07/17 18:33	79-34-5	
Tetrachloroethene	**8.9**	ug/m3	1.2	0.49	1.75		03/07/17 18:33	127-18-4	
Toluene	**14.8**	ug/m3	1.3	0.27	1.75		03/07/17 18:33	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/07/17 18:33	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/07/17 18:33	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/07/17 18:33	79-00-5	
Trichloroethene	**4.8**	ug/m3	0.96	0.48	1.75		03/07/17 18:33	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.0	0.23	1.75		03/07/17 18:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.53**	ug/m3	2.8	0.53	1.75		03/07/17 18:33	76-13-1	
1,2,4-Trimethylbenzene	**1.1J**	ug/m3	1.7	0.22	1.75		03/07/17 18:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/07/17 18:33	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/07/17 18:33	75-01-4	
m&p-Xylene	**5.1**	ug/m3	3.1	1.4	1.75		03/07/17 18:33	179601-23-1	
o-Xylene	**1.2J**	ug/m3	1.5	0.61	1.75		03/07/17 18:33	95-47-6	

Sample: VP-105_20_20170223 **Lab ID: 10380193015** Collected: 02/23/17 12:49 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**44.0**	ug/m3	4.4	1.5	1.83		03/07/17 19:37	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/07/17 19:37	107-05-1	
Benzene	**0.48J**	ug/m3	0.59	0.22	1.83		03/07/17 19:37	71-43-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_20_20170223 **Lab ID: 10380193015** Collected: 02/23/17 12:49 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/07/17 19:37	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/07/17 19:37	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/07/17 19:37	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/07/17 19:37	106-99-0	
2-Butanone (MEK)	**5.5J**	ug/m3	5.5	0.42	1.83		03/07/17 19:37	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/07/17 19:37	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/07/17 19:37	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/07/17 19:37	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/07/17 19:37	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/07/17 19:37	75-00-3	
Chloroform	**2.0**	ug/m3	0.91	0.35	1.83		03/07/17 19:37	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/07/17 19:37	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/07/17 19:37	76-15-3	
Cyclohexane	**0.66J**	ug/m3	1.3	0.58	1.83		03/07/17 19:37	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/07/17 19:37	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/07/17 19:37	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/07/17 19:37	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/07/17 19:37	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/07/17 19:37	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/07/17 19:37	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.8	0.88	1.83		03/07/17 19:37	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/07/17 19:37	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/07/17 19:37	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/07/17 19:37	75-35-4	
cis-1,2-Dichloroethene	**2.3**	ug/m3	1.5	0.45	1.83		03/07/17 19:37	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/07/17 19:37	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/07/17 19:37	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/07/17 19:37	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/07/17 19:37	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/07/17 19:37	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/07/17 19:37	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/07/17 19:37	123-91-1	
Ethylbenzene	**1.3J**	ug/m3	1.6	0.78	1.83		03/07/17 19:37	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.8	0.34	1.83		03/07/17 19:37	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/07/17 19:37	87-68-3	
n-Hexane	**2.0**	ug/m3	1.3	0.65	1.83		03/07/17 19:37	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/07/17 19:37	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/07/17 19:37	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/07/17 19:37	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/07/17 19:37	108-87-2	
Methylene Chloride	**5.7J**	ug/m3	6.5	0.99	1.83		03/07/17 19:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/07/17 19:37	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/07/17 19:37	1634-04-4	
2-Propanol	**3.1J**	ug/m3	4.6	0.44	1.83		03/07/17 19:37	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/07/17 19:37	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/07/17 19:37	79-34-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_20_20170223 **Lab ID: 10380193015** Collected: 02/23/17 12:49 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**103**	ug/m3	1.3	0.51	1.83		03/07/17 19:37	127-18-4	
Toluene	**7.9**	ug/m3	1.4	0.28	1.83		03/07/17 19:37	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/07/17 19:37	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/07/17 19:37	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/07/17 19:37	79-00-5	
Trichloroethene	**170**	ug/m3	1.0	0.51	1.83		03/07/17 19:37	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.1	0.24	1.83		03/07/17 19:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.2**	ug/m3	2.9	0.55	1.83		03/07/17 19:37	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.8	0.23	1.83		03/07/17 19:37	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/07/17 19:37	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/07/17 19:37	75-01-4	
m&p-Xylene	**5.5**	ug/m3	3.2	1.4	1.83		03/07/17 19:37	179601-23-1	
o-Xylene	**1.4J**	ug/m3	1.6	0.64	1.83		03/07/17 19:37	95-47-6	

Sample: VP-105_50_20170223 **Lab ID: 10380193016** Collected: 02/23/17 12:50 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<15.2**	ug/m3	44.2	15.2	18.3		03/07/17 02:27	67-64-1	
Allyl chloride	**<4.2**	ug/m3	29.1	4.2	18.3		03/07/17 02:27	107-05-1	
Benzene	**8.5**	ug/m3	5.9	2.2	18.3		03/07/17 02:27	71-43-2	
Bromodichloromethane	**<3.6**	ug/m3	24.9	3.6	18.3		03/07/17 02:27	75-27-4	
Bromoform	**<16.5**	ug/m3	38.4	16.5	18.3		03/07/17 02:27	75-25-2	
Bromomethane	**<5.7**	ug/m3	14.5	5.7	18.3		03/07/17 02:27	74-83-9	
1,3-Butadiene	**<3.2**	ug/m3	8.2	3.2	18.3		03/07/17 02:27	106-99-0	
2-Butanone (MEK)	**<4.2**	ug/m3	54.9	4.2	18.3		03/07/17 02:27	78-93-3	
Carbon disulfide	**<1.8**	ug/m3	11.5	1.8	18.3		03/07/17 02:27	75-15-0	
Carbon tetrachloride	**<3.5**	ug/m3	11.7	3.5	18.3		03/07/17 02:27	56-23-5	
Chlorobenzene	**<2.5**	ug/m3	17.2	2.5	18.3		03/07/17 02:27	108-90-7	
Chlorodifluoromethane	**160**	ug/m3	13.2	5.1	18.3		03/07/17 02:27	75-45-6	
Chloroethane	**<3.6**	ug/m3	9.9	3.6	18.3		03/07/17 02:27	75-00-3	
Chloroform	**25.4**	ug/m3	9.1	3.5	18.3		03/07/17 02:27	67-66-3	
Chloromethane	**<2.0**	ug/m3	7.7	2.0	18.3		03/07/17 02:27	74-87-3	
Chloropentafluoroethane	**<58.7**	ug/m3	58.7	58.7	18.3		03/07/17 02:27	76-15-3	CH
Cyclohexane	**<5.8**	ug/m3	12.8	5.8	18.3		03/07/17 02:27	110-82-7	
1,2-Dibromo-3-chloropropane	**<89.9**	ug/m3	89.9	89.9	18.3		03/07/17 02:27	96-12-8	
Dibromochloromethane	**<15.7**	ug/m3	31.7	15.7	18.3		03/07/17 02:27	124-48-1	
1,2-Dibromoethane (EDB)	**<14.2**	ug/m3	28.5	14.2	18.3		03/07/17 02:27	106-93-4	
1,2-Dichlorobenzene	**<9.4**	ug/m3	22.3	9.4	18.3		03/07/17 02:27	95-50-1	
1,3-Dichlorobenzene	**<9.7**	ug/m3	22.3	9.7	18.3		03/07/17 02:27	541-73-1	
1,4-Dichlorobenzene	**<9.1**	ug/m3	22.3	9.1	18.3		03/07/17 02:27	106-46-7	
Dichlorodifluoromethane	**<8.8**	ug/m3	18.5	8.8	18.3		03/07/17 02:27	75-71-8	
1,1-Dichloroethane	**<2.9**	ug/m3	15.0	2.9	18.3		03/07/17 02:27	75-34-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_50_20170223 **Lab ID: 10380193016** Collected: 02/23/17 12:50 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichloroethane	**<3.8**	ug/m3	7.5	3.8	18.3		03/07/17 02:27	107-06-2	
1,1-Dichloroethene	**9.0J**	ug/m3	14.8	4.4	18.3		03/07/17 02:27	75-35-4	
cis-1,2-Dichloroethene	**2010**	ug/m3	14.8	4.5	18.3		03/07/17 02:27	156-59-2	
trans-1,2-Dichloroethene	**19.8**	ug/m3	14.8	7.0	18.3		03/07/17 02:27	156-60-5	
1,2-Dichloropropane	**<4.9**	ug/m3	17.2	4.9	18.3		03/07/17 02:27	78-87-5	
cis-1,3-Dichloropropene	**<6.8**	ug/m3	16.8	6.8	18.3		03/07/17 02:27	10061-01-5	
trans-1,3-Dichloropropene	**<4.8**	ug/m3	16.8	4.8	18.3		03/07/17 02:27	10061-02-6	
Dichlorotetrafluoroethane	**<5.7**	ug/m3	26.0	5.7	18.3		03/07/17 02:27	76-14-2	
Freon 123	**<58.2**	ug/m3	58.2	58.2	18.3		03/07/17 02:27	306-83-2	
1,4-Dioxane (p-Dioxane)	**<6.4**	ug/m3	67.0	6.4	18.3		03/07/17 02:27	123-91-1	
Ethylbenzene	**<7.8**	ug/m3	16.1	7.8	18.3		03/07/17 02:27	100-41-4	
4-Ethyltoluene	**<3.4**	ug/m3	18.3	3.4	18.3		03/07/17 02:27	622-96-8	
Hexachloro-1,3-butadiene	**<11.9**	ug/m3	39.7	11.9	18.3		03/07/17 02:27	87-68-3	
n-Hexane	**<6.5**	ug/m3	13.2	6.5	18.3		03/07/17 02:27	110-54-3	
2-Hexanone	**<7.5**	ug/m3	76.2	7.5	18.3		03/07/17 02:27	591-78-6	
Isopropylbenzene (Cumene)	**<2.5**	ug/m3	45.8	2.5	18.3		03/07/17 02:27	98-82-8	
Methyl acetate	**<28.2**	ug/m3	28.2	28.2	18.3		03/07/17 02:27	79-20-9	
Methylcyclohexane	**<4.4**	ug/m3	14.9	4.4	18.3		03/07/17 02:27	108-87-2	
Methylene Chloride	**<9.9**	ug/m3	64.6	9.9	18.3		03/07/17 02:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<4.0**	ug/m3	76.2	4.0	18.3		03/07/17 02:27	108-10-1	
Methyl-tert-butyl ether	**<5.5**	ug/m3	67.1	5.5	18.3		03/07/17 02:27	1634-04-4	
2-Propanol	**<4.4**	ug/m3	45.8	4.4	18.3		03/07/17 02:27	67-63-0	
Styrene	**<3.5**	ug/m3	15.9	3.5	18.3		03/07/17 02:27	100-42-5	
1,1,2,2-Tetrachloroethane	**<6.0**	ug/m3	12.8	6.0	18.3		03/07/17 02:27	79-34-5	
Tetrachloroethene	**1880**	ug/m3	12.6	5.1	18.3		03/07/17 02:27	127-18-4	
Toluene	**119**	ug/m3	14.1	2.8	18.3		03/07/17 02:27	108-88-3	
1,2,4-Trichlorobenzene	**<16.6**	ug/m3	69.0	16.6	18.3		03/07/17 02:27	120-82-1	
1,1,1-Trichloroethane	**<4.5**	ug/m3	20.3	4.5	18.3		03/07/17 02:27	71-55-6	
1,1,2-Trichloroethane	**<4.5**	ug/m3	10.1	4.5	18.3		03/07/17 02:27	79-00-5	
Trichloroethene	**12200**	ug/m3	10.1	5.1	18.3		03/07/17 02:27	79-01-6	
Trichloroethene	**34500**	ug/m3	322	162	585.6		03/07/17 15:42	79-01-6	A3
Trichlorofluoromethane	**32.1**	ug/m3	20.9	2.4	18.3		03/07/17 02:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	**398**	ug/m3	29.3	5.5	18.3		03/07/17 02:27	76-13-1	
1,2,4-Trimethylbenzene	**<2.3**	ug/m3	18.3	2.3	18.3		03/07/17 02:27	95-63-6	
1,3,5-Trimethylbenzene	**<3.3**	ug/m3	18.3	3.3	18.3		03/07/17 02:27	108-67-8	
Vinyl chloride	**<3.6**	ug/m3	4.8	3.6	18.3		03/07/17 02:27	75-01-4	
m&p-Xylene	**<14.4**	ug/m3	32.4	14.4	18.3		03/07/17 02:27	179601-23-1	
o-Xylene	**<6.4**	ug/m3	16.1	6.4	18.3		03/07/17 02:27	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_60_20170223 **Lab ID: 10380193017** Collected: 02/23/17 12:48 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<14.6**	ug/m3	42.2	14.6	17.5		03/07/17 02:54	67-64-1	
Allyl chloride	**<4.0**	ug/m3	27.8	4.0	17.5		03/07/17 02:54	107-05-1	
Benzene	**4.2J**	ug/m3	5.7	2.1	17.5		03/07/17 02:54	71-43-2	
Bromodichloromethane	**<3.4**	ug/m3	23.8	3.4	17.5		03/07/17 02:54	75-27-4	
Bromoform	**<15.8**	ug/m3	36.8	15.8	17.5		03/07/17 02:54	75-25-2	
Bromomethane	**<5.4**	ug/m3	13.8	5.4	17.5		03/07/17 02:54	74-83-9	
1,3-Butadiene	**<3.1**	ug/m3	7.9	3.1	17.5		03/07/17 02:54	106-99-0	
2-Butanone (MEK)	**<4.0**	ug/m3	52.5	4.0	17.5		03/07/17 02:54	78-93-3	
Carbon disulfide	**<1.8**	ug/m3	11.0	1.8	17.5		03/07/17 02:54	75-15-0	
Carbon tetrachloride	**<3.4**	ug/m3	11.2	3.4	17.5		03/07/17 02:54	56-23-5	
Chlorobenzene	**<2.3**	ug/m3	16.4	2.3	17.5		03/07/17 02:54	108-90-7	
Chlorodifluoromethane	**166**	ug/m3	12.6	4.8	17.5		03/07/17 02:54	75-45-6	
Chloroethane	**<3.4**	ug/m3	9.4	3.4	17.5		03/07/17 02:54	75-00-3	
Chloroform	**21.6**	ug/m3	8.7	3.3	17.5		03/07/17 02:54	67-66-3	
Chloromethane	**<1.9**	ug/m3	7.4	1.9	17.5		03/07/17 02:54	74-87-3	
Chloropentafluoroethane	**<56.2**	ug/m3	56.2	56.2	17.5		03/07/17 02:54	76-15-3	CH
Cyclohexane	**<5.5**	ug/m3	12.2	5.5	17.5		03/07/17 02:54	110-82-7	
1,2-Dibromo-3-chloropropane	**<85.9**	ug/m3	85.9	85.9	17.5		03/07/17 02:54	96-12-8	
Dibromochloromethane	**<15.0**	ug/m3	30.3	15.0	17.5		03/07/17 02:54	124-48-1	
1,2-Dibromoethane (EDB)	**<13.5**	ug/m3	27.3	13.5	17.5		03/07/17 02:54	106-93-4	
1,2-Dichlorobenzene	**<9.0**	ug/m3	21.4	9.0	17.5		03/07/17 02:54	95-50-1	
1,3-Dichlorobenzene	**<9.3**	ug/m3	21.4	9.3	17.5		03/07/17 02:54	541-73-1	
1,4-Dichlorobenzene	**<8.7**	ug/m3	21.4	8.7	17.5		03/07/17 02:54	106-46-7	
Dichlorodifluoromethane	**<8.4**	ug/m3	17.7	8.4	17.5		03/07/17 02:54	75-71-8	
1,1-Dichloroethane	**<2.7**	ug/m3	14.4	2.7	17.5		03/07/17 02:54	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/m3	7.2	3.6	17.5		03/07/17 02:54	107-06-2	
1,1-Dichloroethene	**<4.2**	ug/m3	14.2	4.2	17.5		03/07/17 02:54	75-35-4	
cis-1,2-Dichloroethene	**850**	ug/m3	14.2	4.3	17.5		03/07/17 02:54	156-59-2	
trans-1,2-Dichloroethene	**11.6J**	ug/m3	14.2	6.7	17.5		03/07/17 02:54	156-60-5	
1,2-Dichloropropane	**<4.7**	ug/m3	16.4	4.7	17.5		03/07/17 02:54	78-87-5	
cis-1,3-Dichloropropene	**<6.5**	ug/m3	16.1	6.5	17.5		03/07/17 02:54	10061-01-5	
trans-1,3-Dichloropropene	**<4.6**	ug/m3	16.1	4.6	17.5		03/07/17 02:54	10061-02-6	
Dichlorotetrafluoroethane	**<5.4**	ug/m3	24.8	5.4	17.5		03/07/17 02:54	76-14-2	
Freon 123	**<55.6**	ug/m3	55.6	55.6	17.5		03/07/17 02:54	306-83-2	
1,4-Dioxane (p-Dioxane)	**<6.2**	ug/m3	64.0	6.2	17.5		03/07/17 02:54	123-91-1	
Ethylbenzene	**<7.4**	ug/m3	15.4	7.4	17.5		03/07/17 02:54	100-41-4	
4-Ethyltoluene	**<3.3**	ug/m3	17.5	3.3	17.5		03/07/17 02:54	622-96-8	
Hexachloro-1,3-butadiene	**<11.4**	ug/m3	37.9	11.4	17.5		03/07/17 02:54	87-68-3	
n-Hexane	**<6.2**	ug/m3	12.6	6.2	17.5		03/07/17 02:54	110-54-3	
2-Hexanone	**<7.2**	ug/m3	72.9	7.2	17.5		03/07/17 02:54	591-78-6	
Isopropylbenzene (Cumene)	**<2.4**	ug/m3	43.8	2.4	17.5		03/07/17 02:54	98-82-8	
Methyl acetate	**<27.0**	ug/m3	27.0	27.0	17.5		03/07/17 02:54	79-20-9	
Methylcyclohexane	**<4.2**	ug/m3	14.3	4.2	17.5		03/07/17 02:54	108-87-2	
Methylene Chloride	**<9.5**	ug/m3	61.8	9.5	17.5		03/07/17 02:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.8**	ug/m3	72.9	3.8	17.5		03/07/17 02:54	108-10-1	
Methyl-tert-butyl ether	**<5.3**	ug/m3	64.1	5.3	17.5		03/07/17 02:54	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_60_20170223 **Lab ID: 10380193017** Collected: 02/23/17 12:48 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<4.2**	ug/m3	43.8	4.2	17.5		03/07/17 02:54	67-63-0	
Styrene	**<3.4**	ug/m3	15.2	3.4	17.5		03/07/17 02:54	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.8**	ug/m3	12.2	5.8	17.5		03/07/17 02:54	79-34-5	
Tetrachloroethene	**1730**	ug/m3	12.1	4.9	17.5		03/07/17 02:54	127-18-4	
Toluene	**19.7**	ug/m3	13.5	2.7	17.5		03/07/17 02:54	108-88-3	
1,2,4-Trichlorobenzene	**<15.9**	ug/m3	66.0	15.9	17.5		03/07/17 02:54	120-82-1	
1,1,1-Trichloroethane	**<4.3**	ug/m3	19.4	4.3	17.5		03/07/17 02:54	71-55-6	
1,1,2-Trichloroethane	**<4.3**	ug/m3	9.6	4.3	17.5		03/07/17 02:54	79-00-5	
Trichloroethene	**11300**	ug/m3	9.6	4.8	17.5		03/07/17 02:54	79-01-6	
Trichloroethene	**30100**	ug/m3	308	155	560		03/07/17 16:10	79-01-6	A3
Trichlorofluoromethane	**33.2**	ug/m3	20.0	2.3	17.5		03/07/17 02:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**308**	ug/m3	28.0	5.3	17.5		03/07/17 02:54	76-13-1	
1,2,4-Trimethylbenzene	**<2.2**	ug/m3	17.5	2.2	17.5		03/07/17 02:54	95-63-6	
1,3,5-Trimethylbenzene	**<3.2**	ug/m3	17.5	3.2	17.5		03/07/17 02:54	108-67-8	
Vinyl chloride	**<3.4**	ug/m3	4.6	3.4	17.5		03/07/17 02:54	75-01-4	
m&p-Xylene	**<13.8**	ug/m3	31.0	13.8	17.5		03/07/17 02:54	179601-23-1	
o-Xylene	**<6.1**	ug/m3	15.4	6.1	17.5		03/07/17 02:54	95-47-6	

Sample: VP-105_72_20170223 **Lab ID: 10380193018** Collected: 02/23/17 12:48 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<14.6**	ug/m3	42.2	14.6	17.5		03/07/17 03:21	67-64-1	
Allyl chloride	**<4.0**	ug/m3	27.8	4.0	17.5		03/07/17 03:21	107-05-1	
Benzene	**3.0J**	ug/m3	5.7	2.1	17.5		03/07/17 03:21	71-43-2	
Bromodichloromethane	**<3.4**	ug/m3	23.8	3.4	17.5		03/07/17 03:21	75-27-4	
Bromoform	**<15.8**	ug/m3	36.8	15.8	17.5		03/07/17 03:21	75-25-2	
Bromomethane	**<5.4**	ug/m3	13.8	5.4	17.5		03/07/17 03:21	74-83-9	
1,3-Butadiene	**<3.1**	ug/m3	7.9	3.1	17.5		03/07/17 03:21	106-99-0	
2-Butanone (MEK)	**<4.0**	ug/m3	52.5	4.0	17.5		03/07/17 03:21	78-93-3	
Carbon disulfide	**<1.8**	ug/m3	11.0	1.8	17.5		03/07/17 03:21	75-15-0	
Carbon tetrachloride	**<3.4**	ug/m3	11.2	3.4	17.5		03/07/17 03:21	56-23-5	
Chlorobenzene	**<2.3**	ug/m3	16.4	2.3	17.5		03/07/17 03:21	108-90-7	
Chlorodifluoromethane	**76.1**	ug/m3	12.6	4.8	17.5		03/07/17 03:21	75-45-6	
Chloroethane	**<3.4**	ug/m3	9.4	3.4	17.5		03/07/17 03:21	75-00-3	
Chloroform	**12.1**	ug/m3	8.7	3.3	17.5		03/07/17 03:21	67-66-3	
Chloromethane	**<1.9**	ug/m3	7.4	1.9	17.5		03/07/17 03:21	74-87-3	
Chloropentafluoroethane	**<56.2**	ug/m3	56.2	56.2	17.5		03/07/17 03:21	76-15-3	CH
Cyclohexane	**<5.5**	ug/m3	12.2	5.5	17.5		03/07/17 03:21	110-82-7	
1,2-Dibromo-3-chloropropane	**<85.9**	ug/m3	85.9	85.9	17.5		03/07/17 03:21	96-12-8	
Dibromochloromethane	**<15.0**	ug/m3	30.3	15.0	17.5		03/07/17 03:21	124-48-1	
1,2-Dibromoethane (EDB)	**<13.5**	ug/m3	27.3	13.5	17.5		03/07/17 03:21	106-93-4	
1,2-Dichlorobenzene	**<9.0**	ug/m3	21.4	9.0	17.5		03/07/17 03:21	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-105_72_20170223 **Lab ID: 10380193018** Collected: 02/23/17 12:48 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<9.3**	ug/m3	21.4	9.3	17.5		03/07/17 03:21	541-73-1	
1,4-Dichlorobenzene	**21.9**	ug/m3	21.4	8.7	17.5		03/07/17 03:21	106-46-7	
Dichlorodifluoromethane	**<8.4**	ug/m3	17.7	8.4	17.5		03/07/17 03:21	75-71-8	
1,1-Dichloroethane	**<2.7**	ug/m3	14.4	2.7	17.5		03/07/17 03:21	75-34-3	
1,2-Dichloroethane	**<3.6**	ug/m3	7.2	3.6	17.5		03/07/17 03:21	107-06-2	
1,1-Dichloroethene	**<4.2**	ug/m3	14.2	4.2	17.5		03/07/17 03:21	75-35-4	
cis-1,2-Dichloroethene	**266**	ug/m3	14.2	4.3	17.5		03/07/17 03:21	156-59-2	
trans-1,2-Dichloroethene	**<6.7**	ug/m3	14.2	6.7	17.5		03/07/17 03:21	156-60-5	
1,2-Dichloropropane	**<4.7**	ug/m3	16.4	4.7	17.5		03/07/17 03:21	78-87-5	
cis-1,3-Dichloropropene	**<6.5**	ug/m3	16.1	6.5	17.5		03/07/17 03:21	10061-01-5	
trans-1,3-Dichloropropene	**<4.6**	ug/m3	16.1	4.6	17.5		03/07/17 03:21	10061-02-6	
Dichlorotetrafluoroethane	**<5.4**	ug/m3	24.8	5.4	17.5		03/07/17 03:21	76-14-2	
Freon 123	**<55.6**	ug/m3	55.6	55.6	17.5		03/07/17 03:21	306-83-2	
1,4-Dioxane (p-Dioxane)	**<6.2**	ug/m3	64.0	6.2	17.5		03/07/17 03:21	123-91-1	
Ethylbenzene	**<7.4**	ug/m3	15.4	7.4	17.5		03/07/17 03:21	100-41-4	
4-Ethyltoluene	**<3.3**	ug/m3	17.5	3.3	17.5		03/07/17 03:21	622-96-8	
Hexachloro-1,3-butadiene	**<11.4**	ug/m3	37.9	11.4	17.5		03/07/17 03:21	87-68-3	
n-Hexane	**<6.2**	ug/m3	12.6	6.2	17.5		03/07/17 03:21	110-54-3	
2-Hexanone	**<7.2**	ug/m3	72.9	7.2	17.5		03/07/17 03:21	591-78-6	
Isopropylbenzene (Cumene)	**<2.4**	ug/m3	43.8	2.4	17.5		03/07/17 03:21	98-82-8	
Methyl acetate	**<27.0**	ug/m3	27.0	27.0	17.5		03/07/17 03:21	79-20-9	
Methylcyclohexane	**<4.2**	ug/m3	14.3	4.2	17.5		03/07/17 03:21	108-87-2	
Methylene Chloride	**<9.5**	ug/m3	61.8	9.5	17.5		03/07/17 03:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.8**	ug/m3	72.9	3.8	17.5		03/07/17 03:21	108-10-1	
Methyl-tert-butyl ether	**<5.3**	ug/m3	64.1	5.3	17.5		03/07/17 03:21	1634-04-4	
2-Propanol	**<4.2**	ug/m3	43.8	4.2	17.5		03/07/17 03:21	67-63-0	
Styrene	**<3.4**	ug/m3	15.2	3.4	17.5		03/07/17 03:21	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.8**	ug/m3	12.2	5.8	17.5		03/07/17 03:21	79-34-5	
Tetrachloroethene	**1400**	ug/m3	12.1	4.9	17.5		03/07/17 03:21	127-18-4	
Toluene	**16.7**	ug/m3	13.5	2.7	17.5		03/07/17 03:21	108-88-3	
1,2,4-Trichlorobenzene	**<15.9**	ug/m3	66.0	15.9	17.5		03/07/17 03:21	120-82-1	
1,1,1-Trichloroethane	**<4.3**	ug/m3	19.4	4.3	17.5		03/07/17 03:21	71-55-6	
1,1,2-Trichloroethane	**<4.3**	ug/m3	9.6	4.3	17.5		03/07/17 03:21	79-00-5	
Trichloroethene	**7080**	ug/m3	9.6	4.8	17.5		03/07/17 03:21	79-01-6	
Trichloroethene	**12200**	ug/m3	154	77.3	280		03/07/17 15:15	79-01-6	A3
Trichlorofluoromethane	**33.1**	ug/m3	20.0	2.3	17.5		03/07/17 03:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	**292**	ug/m3	28.0	5.3	17.5		03/07/17 03:21	76-13-1	
1,2,4-Trimethylbenzene	**<2.2**	ug/m3	17.5	2.2	17.5		03/07/17 03:21	95-63-6	
1,3,5-Trimethylbenzene	**<3.2**	ug/m3	17.5	3.2	17.5		03/07/17 03:21	108-67-8	
Vinyl chloride	**<3.4**	ug/m3	4.6	3.4	17.5		03/07/17 03:21	75-01-4	
m&p-Xylene	**<13.8**	ug/m3	31.0	13.8	17.5		03/07/17 03:21	179601-23-1	
o-Xylene	**<6.1**	ug/m3	15.4	6.1	17.5		03/07/17 03:21	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_60_20170223DUP **Lab ID: 10380193019** Collected: 02/23/17 11:59 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<16.0**	ug/m3	46.3	16.0	19.2		03/07/17 03:49	67-64-1	
Allyl chloride	**<4.4**	ug/m3	30.5	4.4	19.2		03/07/17 03:49	107-05-1	
Benzene	**<2.3**	ug/m3	6.2	2.3	19.2		03/07/17 03:49	71-43-2	
Bromodichloromethane	**<3.7**	ug/m3	26.1	3.7	19.2		03/07/17 03:49	75-27-4	
Bromoform	**<17.3**	ug/m3	40.3	17.3	19.2		03/07/17 03:49	75-25-2	
Bromomethane	**<6.0**	ug/m3	15.2	6.0	19.2		03/07/17 03:49	74-83-9	
1,3-Butadiene	**<3.4**	ug/m3	8.6	3.4	19.2		03/07/17 03:49	106-99-0	
2-Butanone (MEK)	**<4.4**	ug/m3	57.6	4.4	19.2		03/07/17 03:49	78-93-3	
Carbon disulfide	**<1.9**	ug/m3	12.1	1.9	19.2		03/07/17 03:49	75-15-0	
Carbon tetrachloride	**<3.7**	ug/m3	12.3	3.7	19.2		03/07/17 03:49	56-23-5	
Chlorobenzene	**<2.6**	ug/m3	18.0	2.6	19.2		03/07/17 03:49	108-90-7	
Chlorodifluoromethane	**<5.3**	ug/m3	13.8	5.3	19.2		03/07/17 03:49	75-45-6	
Chloroethane	**<3.7**	ug/m3	10.4	3.7	19.2		03/07/17 03:49	75-00-3	
Chloroform	**44.9**	ug/m3	9.5	3.6	19.2		03/07/17 03:49	67-66-3	
Chloromethane	**<2.1**	ug/m3	8.1	2.1	19.2		03/07/17 03:49	74-87-3	
Chloropentafluoroethane	**<61.6**	ug/m3	61.6	61.6	19.2		03/07/17 03:49	76-15-3	CH
Cyclohexane	**<6.1**	ug/m3	13.4	6.1	19.2		03/07/17 03:49	110-82-7	
1,2-Dibromo-3-chloropropane	**<94.3**	ug/m3	94.3	94.3	19.2		03/07/17 03:49	96-12-8	
Dibromochloromethane	**<16.4**	ug/m3	33.2	16.4	19.2		03/07/17 03:49	124-48-1	
1,2-Dibromoethane (EDB)	**<14.9**	ug/m3	30.0	14.9	19.2		03/07/17 03:49	106-93-4	
1,2-Dichlorobenzene	**13.2J**	ug/m3	23.4	9.8	19.2		03/07/17 03:49	95-50-1	
1,3-Dichlorobenzene	**<10.2**	ug/m3	23.4	10.2	19.2		03/07/17 03:49	541-73-1	
1,4-Dichlorobenzene	**<9.6**	ug/m3	23.4	9.6	19.2		03/07/17 03:49	106-46-7	
Dichlorodifluoromethane	**<9.2**	ug/m3	19.4	9.2	19.2		03/07/17 03:49	75-71-8	
1,1-Dichloroethane	**<3.0**	ug/m3	15.7	3.0	19.2		03/07/17 03:49	75-34-3	
1,2-Dichloroethane	**<3.9**	ug/m3	7.9	3.9	19.2		03/07/17 03:49	107-06-2	
1,1-Dichloroethene	**13.0J**	ug/m3	15.6	4.6	19.2		03/07/17 03:49	75-35-4	
cis-1,2-Dichloroethene	**732**	ug/m3	15.6	4.7	19.2		03/07/17 03:49	156-59-2	
trans-1,2-Dichloroethene	**14.6J**	ug/m3	15.6	7.4	19.2		03/07/17 03:49	156-60-5	
1,2-Dichloropropane	**<5.2**	ug/m3	18.0	5.2	19.2		03/07/17 03:49	78-87-5	
cis-1,3-Dichloropropene	**<7.1**	ug/m3	17.7	7.1	19.2		03/07/17 03:49	10061-01-5	
trans-1,3-Dichloropropene	**<5.0**	ug/m3	17.7	5.0	19.2		03/07/17 03:49	10061-02-6	
Dichlorotetrafluoroethane	**<6.0**	ug/m3	27.3	6.0	19.2		03/07/17 03:49	76-14-2	
Freon 123	**<61.1**	ug/m3	61.1	61.1	19.2		03/07/17 03:49	306-83-2	
1,4-Dioxane (p-Dioxane)	**<6.8**	ug/m3	70.3	6.8	19.2		03/07/17 03:49	123-91-1	
Ethylbenzene	**<8.2**	ug/m3	16.9	8.2	19.2		03/07/17 03:49	100-41-4	
4-Ethyltoluene	**<3.6**	ug/m3	19.2	3.6	19.2		03/07/17 03:49	622-96-8	
Hexachloro-1,3-butadiene	**<12.5**	ug/m3	41.6	12.5	19.2		03/07/17 03:49	87-68-3	
n-Hexane	**<6.9**	ug/m3	13.8	6.9	19.2		03/07/17 03:49	110-54-3	
2-Hexanone	**<7.9**	ug/m3	79.9	7.9	19.2		03/07/17 03:49	591-78-6	
Isopropylbenzene (Cumene)	**<2.6**	ug/m3	48.0	2.6	19.2		03/07/17 03:49	98-82-8	
Methyl acetate	**<29.6**	ug/m3	29.6	29.6	19.2		03/07/17 03:49	79-20-9	
Methylcyclohexane	**<4.6**	ug/m3	15.7	4.6	19.2		03/07/17 03:49	108-87-2	
Methylene Chloride	**<10.4**	ug/m3	67.8	10.4	19.2		03/07/17 03:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<4.2**	ug/m3	79.9	4.2	19.2		03/07/17 03:49	108-10-1	
Methyl-tert-butyl ether	**<5.8**	ug/m3	70.4	5.8	19.2		03/07/17 03:49	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample: VP-9_60_20170223DUP **Lab ID: 10380193019** Collected: 02/23/17 11:59 Received: 02/25/17 09:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<4.6**	ug/m3	48.0	4.6	19.2		03/07/17 03:49	67-63-0	
Styrene	**<3.7**	ug/m3	16.7	3.7	19.2		03/07/17 03:49	100-42-5	
1,1,2,2-Tetrachloroethane	**<6.3**	ug/m3	13.4	6.3	19.2		03/07/17 03:49	79-34-5	
Tetrachloroethene	**3100**	ug/m3	13.2	5.3	19.2		03/07/17 03:49	127-18-4	
Toluene	**21.0**	ug/m3	14.8	3.0	19.2		03/07/17 03:49	108-88-3	
1,2,4-Trichlorobenzene	**<17.5**	ug/m3	72.4	17.5	19.2		03/07/17 03:49	120-82-1	
1,1,1-Trichloroethane	**11.8J**	ug/m3	21.3	4.7	19.2		03/07/17 03:49	71-55-6	
1,1,2-Trichloroethane	**<4.7**	ug/m3	10.6	4.7	19.2		03/07/17 03:49	79-00-5	
Trichloroethene	**13100**	ug/m3	10.6	5.3	19.2		03/07/17 03:49	79-01-6	
Trichloroethene	**85700**	ug/m3	1350	678	2457.6		03/07/17 16:38	79-01-6	A3
Trichlorofluoromethane	**<2.5**	ug/m3	21.9	2.5	19.2		03/07/17 03:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**329**	ug/m3	30.7	5.8	19.2		03/07/17 03:49	76-13-1	
1,2,4-Trimethylbenzene	**<2.4**	ug/m3	19.2	2.4	19.2		03/07/17 03:49	95-63-6	
1,3,5-Trimethylbenzene	**<3.5**	ug/m3	19.2	3.5	19.2		03/07/17 03:49	108-67-8	
Vinyl chloride	**<3.7**	ug/m3	5.0	3.7	19.2		03/07/17 03:49	75-01-4	
m&p-Xylene	**<15.1**	ug/m3	34.0	15.1	19.2		03/07/17 03:49	179601-23-1	
o-Xylene	**<6.7**	ug/m3	16.9	6.7	19.2		03/07/17 03:49	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Appendix C

Support Documentation

ANALYTE	ORIGINAL VP-9_60	DUPLICATE VP-9_60DUP	RL	RPD	RPD > 50%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
1,1,1-TRICHLOROETHANE	9.7	11.8	2	19.535	FALSE	TRUE	TRUE	FALSE
1,1,2-TRICHLOROETHANE	6.3	10.6 U	1	50.888	TRUE	TRUE	TRUE	TRUE
1,1,2-TRICHLOROTRIFLUOROETHANE	279	329	2.9	16.447	FALSE	TRUE	TRUE	TRUE
1,1-DICHLOROETHENE	12.4	13	1.5	4.724	FALSE	TRUE	TRUE	FALSE
1,2,4-TRIMETHYLBENZENE	1.2	19.2 U	1.8	176.471	TRUE	FALSE	TRUE	TRUE
1,2-DICHLOROBENZENE	4.2	13.2	2.2	103.448	TRUE	FALSE	TRUE	TRUE
1,2-DICHLOROETHANE	0.94	7.9 U	0.75	157.466	TRUE	FALSE	TRUE	TRUE
1,4-DICHLOROBENZENE	1.1	23.4 U	2.2	182.041	TRUE	FALSE	TRUE	TRUE
1-ETHYL-4-METHYL BENZENE	1.4	19.2 U	1.8	172.816	TRUE	FALSE	TRUE	TRUE
ACETONE	11.9	46.3 U	4.4	118.213	TRUE	TRUE	TRUE	TRUE
BENZENE	2.5	6.2 U	0.59	85.057	TRUE	TRUE	TRUE	TRUE
CARBON DISULFIDE	0.88	12.1 U	1.2	172.881	TRUE	FALSE	TRUE	TRUE
CARBON TETRACHLORIDE	1.1	12.1 U	1.2	166.667	TRUE	FALSE	TRUE	TRUE
CHLOROFORM	40.2	44.9	0.91	11.046	FALSE	TRUE	TRUE	TRUE
DICHLORODIFLUOROMETHANE	2.8	19.4 U	1.8	149.550	TRUE	FALSE	TRUE	TRUE
ETHYLBENZENE	3.3	16.9 U	1.6	134.653	TRUE	TRUE	TRUE	TRUE
HEXANE	2.2	13.8 U	1.3	145.000	TRUE	FALSE	TRUE	TRUE
M+P-XYLENES	12.8	34 U	3.2	90.598	TRUE	TRUE	TRUE	TRUE
METHYL CYCLOHEXANE	0.97	15.7 U	1.5	176.725	TRUE	FALSE	TRUE	TRUE
METHYLENE CHLORIDE	5.4	67.8 U	6.5	170.492	TRUE	FALSE	TRUE	TRUE
O-XYLENE	3	16.9 U	1.6	139.698	TRUE	FALSE	TRUE	TRUE
TOLUENE	18.8	21	1.4	11.055	FALSE	TRUE	TRUE	FALSE
TRANS-1,2-DICHLOROETHENE	12.7	14.6	1.5	13.919	FALSE	TRUE	TRUE	FALSE
TRICHLOROFLUOROMETHANE	4.1	21.9 U	2.1	136.923	TRUE	FALSE	TRUE	TRUE
VINYL CHLORIDE	1	5 U	0.48	133.333	TRUE	TRUE	TRUE	TRUE
CIS-1,2-DICHLOROETHENE	1210	732	237	49.228	FALSE	TRUE	TRUE	TRUE
TETRACHLOROETHENE	4410	3100	202	34.887	FALSE	TRUE	TRUE	TRUE
TRICHLOROETHENE	26000	85700	161	106.893	TRUE	TRUE	TRUE	TRUE

1038 0193

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26321

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: TETRA TECH	Report To: DOUGLAS MELLOTT	Attention:
Address: 285 RT. 22E, SUITE 104E WHITEHOUSE STATION, NJ 08889	Copy To:	Company Name:
		Address:
Email To: DOUGLAS.MELLOTT@TETRATECH.COM	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: LINC GREAT NECK	Pace Project Manager/Sales Rep.
Requested Due Date/TAT:	Project Number: 117-0507644	Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ X mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level: II.___ III.___ IV.___ Other ___

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-NYSDEC-5_5_20170223	6LC		2/23/17	0845	2/23/17	1227	-30	-9	26760	3688								X		001
2	VP-NYSDEC-5_10_20170223				0845		1208	-30	-9	15820	0358								X		002
3	VP-NYSDEC-5_20_20170223				0845		1208	-30	-9	22950	0865								X		003
4	VP-NYSDEC-5_30_20170223				0845		1208	-27	-9	10411	0253								X		004
5	VP-NYSDEC-5_40_20170223				0845		1303	-30	-9	28246	1048								X		005
6	VP-NYSDEC-5_56_20170223				0845		1208	-29.5	-9	27622	0054								X		006
7	VP-9_10_20170223				0826		1156	-30	-9	11999	0134								X		007
8	VP-9_20_20170223				0826		1204	-28	-9	08721	0056								X		008
9	VP-9_30_20170223				0826		1210	-29	-9	23680	0053								X		009
10	VP-9_40_20170223				0826		1210	-30	-9	28240	0091								X		010
11	VP-9_50_20170223				0826		1156	-30	-9	23666	0355								X		011
12	VP-9_60_20170223	↓		↓	0826	↓	1159	-29	-8	21883	1084								X		012

Comments:

X Modified Lst

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
TT	2/24/17	1215	FedEx	2/24/17	1215
	2/24/17	1315	Pace	2/25/17	0900

SAMPLE CONDITIONS

ANB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jon Byk, Andrew Kelly, Dan Mackenzie

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2/23/17

ORIGINAL

10380193

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26322

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: TETRA TECH	Report To: DARIUS MELIOT	Attention:
Address: 295 RT 22E, SUITE 104C	Copy To:	Company Name:
WHITEHOUSE STATION, NJ 08889		Address:
Email To: DARIUS.MELIOT@TETRATECH.COM	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: LIMC GREAT NECK	Pace Project Manager/Sales Rep.
Requested Due Date/TAT:	Project Number: 117-05076664	Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-105_5_20170223	6K		2/23/17	0901	2/23/17	1250	-29	-10	1087	0320								X		013
2	VP-105_10_20170223				0901		1249	-30	-9	944	0356								X		014
3	VP-105_20_20170223				0901		1249	-30	-9	2700	0045								X		015
4	VP-105_32_20170223																				
5	VP-105_50_20170223				0901		1250	-30	-8	858	0133								X		016
6	VP-105_60_20170223				0905		1248	-30	-8	1065	0039								X		017
7	VP-105_72_20170223	↓		↓	0901	↓	1248	-30	-8	2768	0308								X		018
8	VP-9_60_20170223DUP	6K		2/23/17	0826	2/23/17	1159	-30	-10	952	0354								X		019
9																					020-023 unused
10																					
11																					
12																					

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	2/24/17	1215		2/24/17	1215
	2/24/17	1315		22517	0900

SAMPLE CONDITIONS

	Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
		Y/N	Y/N	Y/N
ANB		Y	N	N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JON BUNK, ANDREW KEAY, DAN TRACHTENBERG

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 2/23/17

ORIGINAL

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Date: March 13, 2017

VP-NYSDEC-5_5_20170223 (Lab ID: 10380193001)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-NYSDEC-5_10_20170223 (Lab ID: 10380193002)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-NYSDEC-5_20_20170223 (Lab ID: 10380193003)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-NYSDEC-5_30_20170223 (Lab ID: 10380193004)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-NYSDEC-5_40_20170223 (Lab ID: 10380193005)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-NYSDEC-5_50_20170223 (Lab ID: 10380193006)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_10_20170223 (Lab ID: 10380193007)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_20_20170223 (Lab ID: 10380193008)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_30_20170223 (Lab ID: 10380193009)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_40_20170223 (Lab ID: 10380193010)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_50_20170223 (Lab ID: 10380193011)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_60_20170223 (Lab ID: 10380193012)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-105_5_20170223 (Lab ID: 10380193013)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-105_10_20170223 (Lab ID: 10380193014)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-105_20_20170223 (Lab ID: 10380193015)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-105_50_20170223 (Lab ID: 10380193016)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-105_60_20170223 (Lab ID: 10380193017)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Date: March 13, 2017

VP-105_72_20170223 (Lab ID: 10380193018)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-9_60_20170223DUP (Lab ID: 10380193019)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

General Information:
19 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 462594

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- DUP (Lab ID: 2530069)
  - Chloropentafluoroethane
- LCS (Lab ID: 2529704)
  - Chloropentafluoroethane
- VP-9_10_20170223 (Lab ID: 10380193007)
  - Chloropentafluoroethane
- VP-9_20_20170223 (Lab ID: 10380193008)
  - Chloropentafluoroethane
- VP-9_30_20170223 (Lab ID: 10380193009)
  - Chloropentafluoroethane
- VP-NYSDEC-5_10_20170223 (Lab ID: 10380193002)
  - Chloropentafluoroethane
- VP-NYSDEC-5_20_20170223 (Lab ID: 10380193003)
  - Chloropentafluoroethane
- VP-NYSDEC-5_30_20170223 (Lab ID: 10380193004)
  - Chloropentafluoroethane
- VP-NYSDEC-5_40_20170223 (Lab ID: 10380193005)
  - Chloropentafluoroethane
- VP-NYSDEC-5_5_20170223 (Lab ID: 10380193001)
  - Chloropentafluoroethane

QC Batch: 462794

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2530440)
  - Chloropentafluoroethane
- VP-105_50_20170223 (Lab ID: 10380193016)
  - Chloropentafluoroethane
- VP-105_60_20170223 (Lab ID: 10380193017)
  - Chloropentafluoroethane
- VP-105_72_20170223 (Lab ID: 10380193018)
  - Chloropentafluoroethane

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

QC Batch: 462794

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- VP-9_60_20170223DUP (Lab ID: 10380193019)
  - Chloropentafluoroethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 462594

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
- LCS (Lab ID: 2529704)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.
- VP-9_30_20170223 (Lab ID: 10380193009)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
- VP-9_40_20170223 (Lab ID: 10380193010)
  - cis-1,2-Dichloroethene
  - trans-1,2-Dichloroethene
  - Tetrachloroethene
  - 1,1,2-Trichlorotrifluoroethane
  - Trichloroethene
- VP-9_50_20170223 (Lab ID: 10380193011)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene
- VP-9_60_20170223 (Lab ID: 10380193012)
  - cis-1,2-Dichloroethene

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

Analyte Comments:

QC Batch: 462594

A3: The sample was analyzed by serial dilution.

- VP-9_60_20170223 (Lab ID: 10380193012)
  - Tetrachloroethene
  - Trichloroethene
- VP-NYSDEC-5_30_20170223 (Lab ID: 10380193004)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - 1,1,2-Trichlorotrifluoroethane
  - Trichloroethene
- VP-NYSDEC-5_40_20170223 (Lab ID: 10380193005)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - 1,1,2-Trichlorotrifluoroethane
  - Trichloroethene
- VP-NYSDEC-5_50_20170223 (Lab ID: 10380193006)
  - cis-1,2-Dichloroethene
  - Tetrachloroethene
  - Trichloroethene

QC Batch: 462794

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2530440)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.

- VP-105_50_20170223 (Lab ID: 10380193016)
  - Trichloroethene
- VP-105_60_20170223 (Lab ID: 10380193017)
  - Trichloroethene
- VP-105_72_20170223 (Lab ID: 10380193018)
  - Trichloroethene
- VP-9_60_20170223DUP (Lab ID: 10380193019)
  - Trichloroethene

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- DUP (Lab ID: 2530739)
  - Cyclohexane
  - n-Hexane

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 13, 2017

Analyte Comments:

QC Batch: 462987

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure

- LCS (Lab ID: 2531282)
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2531282)
  - 1,2-Dibromo-3-chloropropane

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- DUP (Lab ID: 2531695)
  - Cyclohexane
  - n-Hexane

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10380193001	**VP-NYSDEC-5_5_20170223**	Air	02/23/17 12:27	02/25/17 09:00
10380193002	**VP-NYSDEC-5_10_20170223**	Air	02/23/17 12:08	02/25/17 09:00
10380193003	**VP-NYSDEC-5_20_20170223**	Air	02/23/17 12:08	02/25/17 09:00
10380193004	**VP-NYSDEC-5_30_20170223**	Air	02/23/17 12:08	02/25/17 09:00
10380193005	**VP-NYSDEC-5_40_20170223**	Air	02/23/17 13:03	02/25/17 09:00
10380193006	**VP-NYSDEC-5_50_20170223**	Air	02/23/17 12:08	02/25/17 09:00
10380193007	**VP-9_10_20170223**	Air	02/23/17 11:56	02/25/17 09:00
10380193008	**VP-9_20_20170223**	Air	02/23/17 12:04	02/25/17 09:00
10380193009	**VP-9_30_20170223**	Air	02/23/17 12:10	02/25/17 09:00
10380193010	**VP-9_40_20170223**	Air	02/23/17 12:10	02/25/17 09:00
10380193011	**VP-9_50_20170223**	Air	02/23/17 11:56	02/25/17 09:00
10380193012	**VP-9_60_20170223**	Air	02/23/17 11:59	02/25/17 09:00
10380193013	**VP-105_5_20170223**	Air	02/23/17 12:50	02/25/17 09:00
10380193014	**VP-105_10_20170223**	Air	02/23/17 12:49	02/25/17 09:00
10380193015	**VP-105_20_20170223**	Air	02/23/17 12:49	02/25/17 09:00
10380193016	**VP-105_50_20170223**	Air	02/23/17 12:50	02/25/17 09:00
10380193017	**VP-105_60_20170223**	Air	02/23/17 12:48	02/25/17 09:00
10380193018	**VP-105_72_20170223**	Air	02/23/17 12:48	02/25/17 09:00
10380193019	**VP-9_60_20170223DUP**	Air	02/23/17 11:59	02/25/17 09:00
10380193020	**Unused Can#1651**	Air		02/25/17 09:00
10380193021	**Unused Can#2023**	Air		02/25/17 09:00
10380193022	**Unused Can#2697**	Air		02/25/17 09:00
10380193023	**Unused Can#2563**	Air		02/25/17 09:00

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample VP-NYSDEC-5_5_20170223

SAMPLE DUPLICATE: 2530069

Parameter	Units	10380193001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.53	<0.53		25	
1,1-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<1.6	<1.6		25	
1,2,4-Trimethylbenzene	ug/m3	2.1	2.2	4	25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.6	<8.6		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4		25	
1,2-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,2-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	<0.32	<0.32		25	
1,3-Butadiene	ug/m3	<0.31	<0.31		25	
1,3-Dichlorobenzene	ug/m3	<0.93	<0.93		25	
1,4-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.62	<0.62		25	
2-Butanone (MEK)	ug/m3	14.0	14.5	3	25	
2-Hexanone	ug/m3	<0.72	<0.72		25	
2-Propanol	ug/m3	13.0	13.1	0	25	
4-Ethyltoluene	ug/m3	1.4J	1.3J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.38	<0.38		25	
Acetone	ug/m3	74.0	73.3	1	25	
Allyl chloride	ug/m3	<0.40	<0.40		25	
Benzene	ug/m3	1.5	1.5	1	25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<1.6	<1.6		25	
Bromomethane	ug/m3	<0.54	<0.54		25	
Carbon disulfide	ug/m3	<0.18	<0.18		25	
Carbon tetrachloride	ug/m3	<0.34	<0.34		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.48	<0.48		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	1.1	1.0	4	25	
Chloropentafluoroethane	ug/m3	<5.6	<5.6		25	CL
cis-1,2-Dichloroethene	ug/m3	<0.43	<0.43		25	
cis-1,3-Dichloropropene	ug/m3	<0.65	<0.65		25	
Cyclohexane	ug/m3	13.6	14.0	3	25	
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	2.1	2.1	0	25	
Dichlorotetrafluoroethane	ug/m3	<0.54	<0.54		25	
Ethylbenzene	ug/m3	32.4	32.8	1	25	
Freon 123	ug/m3	<5.6	<5.6		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.24	<0.24		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

SAMPLE DUPLICATE: 2530069

Parameter	Units	10380193001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	118	121	3	25	
Methyl acetate	ug/m3	<2.7	<2.7		25	
Methyl-tert-butyl ether	ug/m3	<0.53	<0.53		25	
Methylcyclohexane	ug/m3	8.4	8.4	1	25	
Methylene Chloride	ug/m3	6.1J	6.0J		25	
n-Hexane	ug/m3	2.4	2.6	6	25	
o-Xylene	ug/m3	29.1	30.0	3	25	
Styrene	ug/m3	1.8	1.9	3	25	
Tetrachloroethene	ug/m3	4.7	5.0	5	25	
Toluene	ug/m3	69.3	69.9	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.67	<0.67		25	
trans-1,3-Dichloropropene	ug/m3	<0.46	<0.46		25	
Trichloroethene	ug/m3	1.2	1.2	1	25	
Trichlorofluoromethane	ug/m3	1.2J	1.2J		25	
Vinyl chloride	ug/m3	<0.34	<0.34		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample not included in SDG.

SAMPLE DUPLICATE: 2530739

Parameter	Units	10380602001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.40	<0.40		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.53	<0.53		25	
1,1,2-Trichloroethane	ug/m3	<0.40	<0.40		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.48	0.64J		25	
1,1-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,1-Dichloroethene	ug/m3	<0.38	<0.38		25	
1,2,4-Trichlorobenzene	ug/m3	<1.5	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	6.3	6.3	1	25	
1,2-Dibromo-3-chloropropane	ug/m3	<7.9	<7.9		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.2	<1.2		25	
1,2-Dichlorobenzene	ug/m3	<0.82	<0.82		25	
1,2-Dichloroethane	ug/m3	<0.33	<0.33		25	
1,2-Dichloropropane	ug/m3	<0.43	<0.43		25	
1,3,5-Trimethylbenzene	ug/m3	1.9	1.9	1	25	
1,3-Butadiene	ug/m3	<0.28	<0.28		25	
1,3-Dichlorobenzene	ug/m3	<0.85	<0.85		25	
1,4-Dichlorobenzene	ug/m3	<0.80	<0.80		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.57	<0.57		25	
2-Butanone (MEK)	ug/m3	<0.37	3.7J		25	
2-Hexanone	ug/m3	<0.66	<0.66		25	
2-Propanol	ug/m3	<0.39	<0.39		25	
4-Ethyltoluene	ug/m3	2.8	2.8	0	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.35	<0.35		25	
Acetone	ug/m3	46.1	44.2	4	25	
Allyl chloride	ug/m3	<0.37	<0.37		25	
Benzene	ug/m3	10.1	9.5	6	25	
Bromodichloromethane	ug/m3	<0.31	<0.31		25	
Bromoform	ug/m3	<1.5	<1.5		25	
Bromomethane	ug/m3	<0.50	<0.50		25	
Carbon disulfide	ug/m3	1.3	1.3	3	25	
Carbon tetrachloride	ug/m3	<0.31	<0.31		25	
Chlorobenzene	ug/m3	<0.22	<0.22		25	
Chlorodifluoromethane	ug/m3	1.1J	1.0J		25	
Chloroethane	ug/m3	<0.31	<0.31		25	
Chloroform	ug/m3	1.7	1.8	4	25	
Chloromethane	ug/m3	<0.17	<0.17		25	
Chloropentafluoroethane	ug/m3	<5.2	<5.2		25	
cis-1,2-Dichloroethene	ug/m3	<0.40	<0.40		25	
cis-1,3-Dichloropropene	ug/m3	<0.59	<0.59		25	
Cyclohexane	ug/m3	531	488	8	25	E
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	2.0	2.2	9	25	
Dichlorotetrafluoroethane	ug/m3	<0.50	<0.50		25	
Ethylbenzene	ug/m3	4.9	4.8	3	25	
Freon 123	ug/m3	<5.1	<5.1		25	
Hexachloro-1,3-butadiene	ug/m3	<1.0	<1.0		25	
Isopropylbenzene (Cumene)	ug/m3	<0.22	<0.22		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

SAMPLE DUPLICATE: 2530739

Parameter	Units	10380602001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	16.2	16.3	1	25	
Methyl acetate	ug/m3	<2.5	<2.5		25	
Methyl-tert-butyl ether	ug/m3	<0.49	<0.49		25	
Methylcyclohexane	ug/m3	185	168	10	25	
Methylene Chloride	ug/m3	22.2	22.1	1	25	
n-Hexane	ug/m3	900	830	8	25	E
o-Xylene	ug/m3	5.7	5.6	2	25	
Styrene	ug/m3	0.80J	0.76J		25	
Tetrachloroethene	ug/m3	4.2	4.1	2	25	
Toluene	ug/m3	35.2	35.4	0	25	
trans-1,2-Dichloroethene	ug/m3	<0.62	<0.62		25	
trans-1,3-Dichloropropene	ug/m3	<0.42	<0.42		25	
Trichloroethene	ug/m3	9.5	9.7	3	25	
Trichlorofluoromethane	ug/m3	1.2J	1.2J		25	
Vinyl chloride	ug/m3	<0.31	<0.31		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

Sample VP-105_10_20170223

SAMPLE DUPLICATE: 2531695

Parameter	Units	10380193014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.53	<0.53		25	
1,1-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<1.6	<1.6		25	
1,2,4-Trimethylbenzene	ug/m3	1.1J	1.1J		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.6	<8.6		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4		25	
1,2-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,2-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	<0.32	<0.32		25	
1,3-Butadiene	ug/m3	<0.31	<0.31		25	
1,3-Dichlorobenzene	ug/m3	<0.93	<0.93		25	
1,4-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.62	<0.62		25	
2-Butanone (MEK)	ug/m3	<0.40	<0.40		25	
2-Hexanone	ug/m3	<0.72	<0.72		25	
2-Propanol	ug/m3	<0.42	<0.42		25	
4-Ethyltoluene	ug/m3	1.2J	1.1J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.38	<0.38		25	
Acetone	ug/m3	13.0	13.8	6	25	
Allyl chloride	ug/m3	<0.40	<0.40		25	
Benzene	ug/m3	3.2	3.2	3	25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<1.6	<1.6		25	
Bromomethane	ug/m3	<0.54	<0.54		25	
Carbon disulfide	ug/m3	<0.18	<0.18		25	
Carbon tetrachloride	ug/m3	<0.34	<0.34		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.48	<0.48		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	<0.19	<0.19		25	
Chloropentafluoroethane	ug/m3	<5.6	<5.6		25	
cis-1,2-Dichloroethene	ug/m3	<0.43	<0.43		25	
cis-1,3-Dichloropropene	ug/m3	<0.65	<0.65		25	
Cyclohexane	ug/m3	120	280	2	25	E
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	2.2	2.1	2	25	
Dichlorotetrafluoroethane	ug/m3	<0.54	<0.54		25	
Ethylbenzene	ug/m3	1.1J	1.2J		25	
Freon 123	ug/m3	<5.6	<5.6		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.24	<0.24		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

SAMPLE DUPLICATE: 2531695

Parameter	Units	10380193014 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	5.1	5.2	2	25	
Methyl acetate	ug/m3	<2.7	<2.7		25	
Methyl-tert-butyl ether	ug/m3	<0.53	<0.53		25	
Methylcyclohexane	ug/m3	85.5	85.7	0	25	
Methylene Chloride	ug/m3	3.3J	3.2J		25	
n-Hexane	ug/m3	293	573	3	25	E
o-Xylene	ug/m3	1.2J	1.2J		25	
Styrene	ug/m3	0.82J	0.81J		25	
Tetrachloroethene	ug/m3	8.9	8.9	0	25	
Toluene	ug/m3	14.8	15.1	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.67	<0.67		25	
trans-1,3-Dichloropropene	ug/m3	<0.46	<0.46		25	
Trichloroethene	ug/m3	4.8	4.5	8	25	
Trichlorofluoromethane	ug/m3	1.2J	1.4J		25	
Vinyl chloride	ug/m3	<0.34	<0.34		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462594 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06409_27839.D Lab Sample ID: 2529703
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 13:11
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-NYSDEC-5_5_20170223	10380193001	06418.D	17:49
02	VP-NYSDEC-5_10_20170223	10380193002	06420.D	18:53
03	VP-NYSDEC-5_20_20170223	10380193003	06422.D	19:59
04	VP-NYSDEC-5_30_20170223	10380193004	06423.D	20:31
05	VP-NYSDEC-5_40_20170223	10380193005	06424.D	21:02
06	VP-NYSDEC-5_50_20170223	10380193006	06425.D	21:33
07	VP-9_10_20170223	10380193007	06426.D	22:04
08	VP-9_20_20170223	10380193008	06427.D	22:37
09	VP-9_30_20170223	10380193009	06428.D	23:10
10	VP-9_40_20170223	10380193010	06429.D	23:41
11	VP-9_50_20170223	10380193011	06431.D	00:39
12	VP-9_60_20170223	10380193012	06432.D	01:10
13	VP-105_5_20170223	10380193013	06433.D	01:43

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

QC Batch: 462594 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10380193001, 10380193002, 10380193003, 10380193004, 10380193005, 10380193006, 10380193007, 10380193008, 10380193009, 10380193010, 10380193011, 10380193012, 10380193013

METHOD BLANK: 2529703 Matrix: Air
Associated Lab Samples: 10380193001, 10380193002, 10380193003, 10380193004, 10380193005, 10380193006, 10380193007, 10380193008, 10380193009, 10380193010, 10380193011, 10380193012, 10380193013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/05/17 13:11	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/05/17 13:11	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/05/17 13:11	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/05/17 13:11	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/05/17 13:11	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/05/17 13:11	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/05/17 13:11	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/05/17 13:11	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/05/17 13:11	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/05/17 13:11	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/05/17 13:11	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/05/17 13:11	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/05/17 13:11	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/05/17 13:11	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/05/17 13:11	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/05/17 13:11	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/05/17 13:11	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/05/17 13:11	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/05/17 13:11	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/05/17 13:11	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/05/17 13:11	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/05/17 13:11	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/05/17 13:11	
Acetone	ug/m3	<0.83	2.4	0.83	03/05/17 13:11	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/05/17 13:11	
Benzene	ug/m3	<0.12	0.32	0.12	03/05/17 13:11	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/05/17 13:11	
Bromoform	ug/m3	<0.90	2.1	0.90	03/05/17 13:11	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/05/17 13:11	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/05/17 13:11	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/05/17 13:11	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/05/17 13:11	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/05/17 13:11	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/05/17 13:11	
Chloroform	ug/m3	<0.19	0.50	0.19	03/05/17 13:11	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/05/17 13:11	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/05/17 13:11	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/05/17 13:11	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/05/17 13:11	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/05/17 13:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

METHOD BLANK: 2529703 Matrix: Air

Associated Lab Samples: 10380193001, 10380193002, 10380193003, 10380193004, 10380193005, 10380193006, 10380193007, 10380193008, 10380193009, 10380193010, 10380193011, 10380193012, 10380193013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/05/17 13:11	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/05/17 13:11	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/05/17 13:11	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/05/17 13:11	
Freon 123	ug/m3	<3.2	3.2	3.2	03/05/17 13:11	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/05/17 13:11	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/05/17 13:11	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/05/17 13:11	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/05/17 13:11	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/05/17 13:11	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/05/17 13:11	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/05/17 13:11	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/05/17 13:11	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/05/17 13:11	
Styrene	ug/m3	<0.19	0.87	0.19	03/05/17 13:11	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/05/17 13:11	
Toluene	ug/m3	<0.15	0.77	0.15	03/05/17 13:11	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/05/17 13:11	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/05/17 13:11	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/05/17 13:11	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/05/17 13:11	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/05/17 13:11	

LABORATORY CONTROL SAMPLE: 2529704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.9	101	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.5	110	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	52.1	94	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	73.5	94	66-131	
1,1-Dichloroethane	ug/m3	41.1	40.2	98	62-139	
1,1-Dichloroethene	ug/m3	40.3	38.3	95	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	75.4	100	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	57.5	115	57-143	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	101	103	50-150	2M
1,2-Dibromoethane (EDB)	ug/m3	78.1	80.7	103	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	61.2	100	57-141	
1,2-Dichloroethane	ug/m3	41.1	39.9	97	61-144	
1,2-Dichloropropane	ug/m3	47	45.2	96	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	51.5	103	54-147	
1,3-Butadiene	ug/m3	22.5	21.9	97	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	64.0	105	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	68.8	113	57-143	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

LABORATORY CONTROL SAMPLE: 2529704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	35.5	97	58-144	
2-Butanone (MEK)	ug/m3	30	28.0	93	66-144	
2-Hexanone	ug/m3	104	109	105	63-147	
2-Propanol	ug/m3	125	114	91	54-146	
4-Ethyltoluene	ug/m3	50	49.5	99	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	98.2	94	58-150	
Acetone	ug/m3	121	103	86	46-140	
Allyl chloride	ug/m3	79.5	76.9	97	65-142	
Benzene	ug/m3	32.5	32.3	100	62-141	
Bromodichloromethane	ug/m3	68.1	67.7	99	58-149	
Bromoform	ug/m3	105	104	99	61-150	
Bromomethane	ug/m3	39.5	37.1	94	58-136	
Carbon disulfide	ug/m3	31.6	33.6	106	59-135	
Carbon tetrachloride	ug/m3	64	68.7	107	60-149	
Chlorobenzene	ug/m3	46.8	46.7	100	60-150	
Chlorodifluoromethane	ug/m3	36	35.6	99	70-130	
Chloroethane	ug/m3	26.8	24.2	90	61-136	
Chloroform	ug/m3	49.6	47.5	96	65-138	
Chloromethane	ug/m3	21	19.6	93	62-133	
Chloropentafluoroethane	ug/m3	64.2	38.2	60	50-150	2M,CL
cis-1,2-Dichloroethene	ug/m3	40.3	41.0	102	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	43.1	94	61-149	
Cyclohexane	ug/m3	35	33.7	96	64-134	
Dibromochloromethane	ug/m3	86.6	84.9	98	59-150	
Dichlorodifluoromethane	ug/m3	50.3	49.3	98	63-134	
Dichlorotetrafluoroethane	ug/m3	71	65.5	92	62-134	
Ethylbenzene	ug/m3	44.1	45.7	104	59-149	
Freon 123	ug/m3	63.6	49.0	77	50-150	2M
Hexachloro-1,3-butadiene	ug/m3	108	114	106	42-150	
Isopropylbenzene (Cumene)	ug/m3	50	50.6	101	65-150	
m&p-Xylene	ug/m3	88.3	90.7	103	59-146	
Methyl acetate	ug/m3	30.8	29.5	96	50-150	2M
Methyl-tert-butyl ether	ug/m3	91.6	87.7	96	64-135	
Methylcyclohexane	ug/m3	40.8	38.6	94	70-130	
Methylene Chloride	ug/m3	177	164	93	64-128	
n-Hexane	ug/m3	35.8	34.7	97	50-138	
o-Xylene	ug/m3	44.1	45.0	102	54-149	
Styrene	ug/m3	43.3	42.1	97	54-150	
Tetrachloroethene	ug/m3	68.9	68.4	99	60-142	
Toluene	ug/m3	38.3	36.7	96	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	41.9	104	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	44.1	96	59-145	
Trichloroethene	ug/m3	54.6	52.9	97	60-144	
Trichlorofluoromethane	ug/m3	57.1	52.5	92	59-134	
Vinyl chloride	ug/m3	26	24.6	95	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462794 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06504_27846.D Lab Sample ID: 2530439
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 10:09
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-105_50_20170223	10380193016	06536.D	02:27
02	VP-105_60_20170223	10380193017	06537.D	02:54
03	VP-105_72_20170223	10380193018	06538.D	03:21
04	VP-9_60_20170223DUP	10380193019	06539.D	03:49

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

QC Batch: 462794 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10380193016, 10380193017, 10380193018, 10380193019

METHOD BLANK: 2530439 Matrix: Air
Associated Lab Samples: 10380193016, 10380193017, 10380193018, 10380193019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/06/17 10:09	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/06/17 10:09	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/06/17 10:09	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/06/17 10:09	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/06/17 10:09	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/06/17 10:09	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/06/17 10:09	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/06/17 10:09	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/06/17 10:09	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/06/17 10:09	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/06/17 10:09	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/06/17 10:09	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/06/17 10:09	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/06/17 10:09	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/06/17 10:09	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/06/17 10:09	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/06/17 10:09	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/06/17 10:09	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/06/17 10:09	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/06/17 10:09	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/06/17 10:09	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/06/17 10:09	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/06/17 10:09	
Acetone	ug/m3	<0.83	2.4	0.83	03/06/17 10:09	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/06/17 10:09	
Benzene	ug/m3	<0.12	0.32	0.12	03/06/17 10:09	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/06/17 10:09	
Bromoform	ug/m3	<0.90	2.1	0.90	03/06/17 10:09	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/06/17 10:09	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/06/17 10:09	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/06/17 10:09	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/06/17 10:09	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/06/17 10:09	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/06/17 10:09	
Chloroform	ug/m3	<0.19	0.50	0.19	03/06/17 10:09	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/06/17 10:09	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/06/17 10:09	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/06/17 10:09	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/06/17 10:09	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/06/17 10:09	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/06/17 10:09	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

METHOD BLANK: 2530439 Matrix: Air
Associated Lab Samples: 10380193016, 10380193017, 10380193018, 10380193019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/06/17 10:09	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/06/17 10:09	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/06/17 10:09	
Freon 123	ug/m3	<3.2	3.2	3.2	03/06/17 10:09	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/06/17 10:09	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/06/17 10:09	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/06/17 10:09	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/06/17 10:09	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/06/17 10:09	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/06/17 10:09	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/06/17 10:09	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/06/17 10:09	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/06/17 10:09	
Styrene	ug/m3	<0.19	0.87	0.19	03/06/17 10:09	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/06/17 10:09	
Toluene	ug/m3	<0.15	0.77	0.15	03/06/17 10:09	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/06/17 10:09	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/06/17 10:09	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/06/17 10:09	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/06/17 10:09	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/06/17 10:09	

LABORATORY CONTROL SAMPLE: 2530440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.0	101	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	83.2	119	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	58.0	104	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	67.1	86	75-128	
1,1-Dichloroethane	ug/m3	41.1	37.1	90	75-127	
1,1-Dichloroethene	ug/m3	40.3	36.1	90	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	81.8	108	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	60.2	121	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	105	106		2M
1,2-Dibromoethane (EDB)	ug/m3	78.1	86.4	111	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	63.6	104	75-139	
1,2-Dichloroethane	ug/m3	41.1	41.7	101	75-130	
1,2-Dichloropropane	ug/m3	47	50.4	107	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	54.8	110	75-133	
1,3-Butadiene	ug/m3	22.5	21.5	96	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	66.9	109	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	72.6	119	75-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	40.3	110	65-149	
2-Butanone (MEK)	ug/m3	30	26.0	87	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

LABORATORY CONTROL SAMPLE: 2530440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	123	118	75-138	
2-Propanol	ug/m3	125	109	87	75-127	
4-Ethyltoluene	ug/m3	50	53.3	107	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	114	109	75-130	
Acetone	ug/m3	121	99.4	82	64-129	
Allyl chloride	ug/m3	79.5	68.7	86	60-147	
Benzene	ug/m3	32.5	35.0	108	75-129	
Bromodichloromethane	ug/m3	68.1	73.8	108	75-134	
Bromoform	ug/m3	105	107	102	75-150	
Bromomethane	ug/m3	39.5	35.5	90	75-127	
Carbon disulfide	ug/m3	31.6	31.0	98	75-134	
Carbon tetrachloride	ug/m3	64	67.3	105	68-150	
Chlorobenzene	ug/m3	46.8	50.0	107	75-132	
Chlorodifluoromethane	ug/m3	36	38.1	106	67-134	
Chloroethane	ug/m3	26.8	23.7	88	75-132	
Chloroform	ug/m3	49.6	53.3	107	75-125	
Chloromethane	ug/m3	21	22.3	106	75-126	
Chloropentafluoroethane	ug/m3	64.2	106	165		2M,CH
cis-1,2-Dichloroethene	ug/m3	40.3	37.7	94	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	46.8	102	75-137	
Cyclohexane	ug/m3	35	36.6	105	75-126	
Dibromochloromethane	ug/m3	86.6	89.3	103	75-144	
Dichlorodifluoromethane	ug/m3	50.3	53.2	106	75-129	
Dichlorotetrafluoroethane	ug/m3	71	71.6	101	75-125	
Ethylbenzene	ug/m3	44.1	49.1	111	75-134	
Freon 123	ug/m3	63.6	49.4	78		2M
Hexachloro-1,3-butadiene	ug/m3	108	124	114	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	53.6	107	75-140	
m&p-Xylene	ug/m3	88.3	96.3	109	75-129	
Methyl acetate	ug/m3	30.8	27.1	88		2M
Methyl-tert-butyl ether	ug/m3	91.6	80.8	88	66-148	
Methylcyclohexane	ug/m3	40.8	43.9	108	73-137	
Methylene Chloride	ug/m3	177	152	86	67-133	
n-Hexane	ug/m3	35.8	32.7	91	67-132	
o-Xylene	ug/m3	44.1	48.4	110	75-129	
Styrene	ug/m3	43.3	44.8	103	75-139	
Tetrachloroethene	ug/m3	68.9	71.4	104	75-129	
Toluene	ug/m3	38.3	40.6	106	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	38.0	94	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	47.7	103	75-142	
Trichloroethene	ug/m3	54.6	58.1	106	75-128	
Trichlorofluoromethane	ug/m3	57.1	48.5	85	75-127	
Vinyl chloride	ug/m3	26	24.8	96	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462987 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06604_27858.D Lab Sample ID: 2531281
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 09:56
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-105_10_20170223	10380193014	06622.D	18:33
02	VP-105_20_20170223	10380193015	06624.D	19:37

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

QC Batch: 462987 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10380193014, 10380193015

METHOD BLANK: 2531281 Matrix: Air
Associated Lab Samples: 10380193014, 10380193015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/07/17 09:56	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/07/17 09:56	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/07/17 09:56	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/07/17 09:56	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/07/17 09:56	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/07/17 09:56	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/07/17 09:56	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/07/17 09:56	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/07/17 09:56	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/07/17 09:56	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/07/17 09:56	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/07/17 09:56	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/07/17 09:56	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/07/17 09:56	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/07/17 09:56	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/07/17 09:56	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/07/17 09:56	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/07/17 09:56	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/07/17 09:56	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/07/17 09:56	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/07/17 09:56	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/07/17 09:56	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/07/17 09:56	
Acetone	ug/m3	<0.83	2.4	0.83	03/07/17 09:56	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/07/17 09:56	
Benzene	ug/m3	<0.12	0.32	0.12	03/07/17 09:56	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/07/17 09:56	
Bromoform	ug/m3	<0.90	2.1	0.90	03/07/17 09:56	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/07/17 09:56	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/07/17 09:56	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/07/17 09:56	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/07/17 09:56	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/07/17 09:56	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/07/17 09:56	
Chloroform	ug/m3	<0.19	0.50	0.19	03/07/17 09:56	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/07/17 09:56	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/07/17 09:56	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/07/17 09:56	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/07/17 09:56	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/07/17 09:56	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/07/17 09:56	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

METHOD BLANK: 2531281 Matrix: Air
Associated Lab Samples: 10380193014, 10380193015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/07/17 09:56	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/07/17 09:56	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/07/17 09:56	
Freon 123	ug/m3	<3.2	3.2	3.2	03/07/17 09:56	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/07/17 09:56	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/07/17 09:56	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/07/17 09:56	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/07/17 09:56	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/07/17 09:56	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/07/17 09:56	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/07/17 09:56	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/07/17 09:56	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/07/17 09:56	
Styrene	ug/m3	<0.19	0.87	0.19	03/07/17 09:56	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/07/17 09:56	
Toluene	ug/m3	<0.15	0.77	0.15	03/07/17 09:56	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/07/17 09:56	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/07/17 09:56	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/07/17 09:56	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/07/17 09:56	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/07/17 09:56	

LABORATORY CONTROL SAMPLE: 2531282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.4	107	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	81.0	116	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	59.2	107	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	76.9	99	75-128	
1,1-Dichloroethane	ug/m3	41.1	40.1	97	75-127	
1,1-Dichloroethene	ug/m3	40.3	38.8	96	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	81.5	108	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	60.8	122	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	109	111		2M
1,2-Dibromoethane (EDB)	ug/m3	78.1	87.7	112	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	66.6	109	75-139	
1,2-Dichloroethane	ug/m3	41.1	42.0	102	75-130	
1,2-Dichloropropane	ug/m3	47	49.2	105	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	55.4	111	75-133	
1,3-Butadiene	ug/m3	22.5	22.2	99	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	70.2	115	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	75.7	124	75-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	40.9	112	65-149	
2-Butanone (MEK)	ug/m3	30	28.9	96	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380193

LABORATORY CONTROL SAMPLE: 2531282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	116	112	75-138	
2-Propanol	ug/m3	125	121	97	75-127	
4-Ethyltoluene	ug/m3	50	53.9	108	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	109	105	75-130	
Acetone	ug/m3	121	105	87	64-129	
Allyl chloride	ug/m3	79.5	78.5	99	60-147	
Benzene	ug/m3	32.5	34.2	105	75-129	
Bromodichloromethane	ug/m3	68.1	76.0	112	75-134	
Bromoform	ug/m3	105	120	114	75-150	
Bromomethane	ug/m3	39.5	38.6	98	75-127	
Carbon disulfide	ug/m3	31.6	34.3	109	75-134	
Carbon tetrachloride	ug/m3	64	72.8	114	68-150	
Chlorobenzene	ug/m3	46.8	52.3	112	75-132	
Chlorodifluoromethane	ug/m3	36	38.1	106	67-134	
Chloroethane	ug/m3	26.8	24.8	92	75-132	
Chloroform	ug/m3	49.6	46.1	93	75-125	
Chloromethane	ug/m3	21	21.0	100	75-126	
Chloropentafluoroethane	ug/m3	64.2	68.6	107		1M
cis-1,2-Dichloroethene	ug/m3	40.3	42.1	105	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	47.6	103	75-137	
Cyclohexane	ug/m3	35	35.5	102	75-126	
Dibromochloromethane	ug/m3	86.6	97.0	112	75-144	
Dichlorodifluoromethane	ug/m3	50.3	54.1	108	75-129	
Dichlorotetrafluoroethane	ug/m3	71	73.3	103	75-125	
Ethylbenzene	ug/m3	44.1	51.0	115	75-134	
Freon 123	ug/m3	63.6	56.8	89		1M
Hexachloro-1,3-butadiene	ug/m3	108	131	121	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	55.9	112	75-140	
m&p-Xylene	ug/m3	88.3	99.7	113	75-129	
Methyl acetate	ug/m3	30.8	29.8	97		1M
Methyl-tert-butyl ether	ug/m3	91.6	93.1	102	66-148	
Methylcyclohexane	ug/m3	40.8	43.8	107	73-137	
Methylene Chloride	ug/m3	177	160	91	67-133	
n-Hexane	ug/m3	35.8	34.7	97	67-132	
o-Xylene	ug/m3	44.1	50.0	113	75-129	
Styrene	ug/m3	43.3	46.2	107	75-139	
Tetrachloroethene	ug/m3	68.9	78.3	114	75-129	
Toluene	ug/m3	38.3	41.6	109	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	42.4	105	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	48.9	106	75-142	
Trichloroethene	ug/m3	54.6	61.4	112	75-128	
Trichlorofluoromethane	ug/m3	57.1	55.0	96	75-127	
Vinyl chloride	ug/m3	26	26.1	100	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06101BFB.D BFB Injection Date: 03/02/2017
Instrument ID: 10AIRB BFB Injection Time: 07:16
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.18	
75	30.00 - 66.00% of mass 95	48.17	
96	5.00 - 9.00% of mass 95	6.23	
173	Less than 2.00% of mass 174	0.90	(0.94)
174	50.00 - 120.00% of mass 95	95.41	
175	4.00 - 9.00% of mass 174	6.96	(7.30)
176	93.00 - 101.00% of mass 174	91.75	(96.16)
177	5.00 - 9.00% of mass 176	5.98	(6.52)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	06109.D	03/02/2017	11:19
2	CAL2	CAL2	06110.D	03/02/2017	11:46
3	CAL3	CAL3	06111.D	03/02/2017	12:14
4	CAL4	CAL4	06112.D	03/02/2017	12:43
5	CAL5	CAL5	06113.D	03/02/2017	13:10
6	CAL6	CAL6	06114.D	03/02/2017	13:39
7	CAL7	CAL7	06115.D	03/02/2017	14:08
8	ICV	ICV	06117.D	03/02/2017	15:02

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\192.168.10.12\chem\10airB.i\030217thc.b\THC_061-17.m
Last Edit : 03-Mar-2017 06:42 mschmitz

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\030217thc.b\06109.D
Level 02: all \\192.168.10.12\chem\10airB.i\030217thc.b\06110.D
Level 03: all \\192.168.10.12\chem\10airB.i\030217thc.b\06111.D
Level 04: all \\192.168.10.12\chem\10airB.i\030217thc.b\06112.D
Level 05: all \\192.168.10.12\chem\10airB.i\030217thc.b\06113.D
Level 06: all \\192.168.10.12\chem\10airB.i\030217thc.b\06114.D
Level 07: all \\192.168.10.12\chem\10airB.i\030217thc.b\06115.D

Compound (all.sb)	11.9500 Level 1	23.9000 Level 2	59.7500 Level 3	119.5000 Level 4	1195.0000 Level 5	2390.0000 Level 6	3585.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
S 5 THC as Gas	16089192	17119064	20636209	27096955	123073161	224553871						
	306343116							QUAD	14810905	97768	-4.53707	0.99989

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Level 02: all \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Level 03: all \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Level 04: all \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Level 05: all \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Level 06: all \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Level 07: all \\192.168.10.12\chem\10airB.i\030217.b\06115.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	1604	3252	3232	5096	104607	+++++	+++++	LINR	-0.00090	0.07460		0.99641
2 1,1-Difluoroethane	0.04907	0.06383	0.05871	0.05580	0.06051	0.05847	0.06399	AVRG		0.05863		8.77337
3 Chlorodifluoromethane	246	740	2020	3964	41204	80199	+++++	LINR	0.00012	0.02798		0.99946
4 Propylene	+++++	5938	12525	24954	98681	197124	287080	LINR	0.00470	0.06927		0.99648

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	5463 +++++	9737	20944	41132	413909	810812	LINR	0.00223	0.28189		0.99963
6 Chloromethane	0.11898	0.12708	0.10813	0.10743	0.11466	0.11047					
	0.11752						AVRG		0.11490		6.08607
7 Dichlorotetrafluoroethane	0.28412	0.30889	0.27070	0.26600	0.27057	0.26389					
	0.27923						AVRG		0.27763		5.58743
8 Vinyl chloride	0.09509	0.10099	0.09950	0.09199	0.10191	0.09874					
	0.10655						AVRG		0.09925		4.75711
9 1,3-Butadiene	0.05391	0.07556	0.07312	0.07192	0.07709	0.07383					
	0.08059						AVRG		0.07229		11.89494
10 Bromomethane	0.08947	0.09822	0.08330	0.09096	0.09309	0.09088					
	0.09682						AVRG		0.09182		5.39696
11 Chloroethane	0.03819	0.05297	0.04520	0.04372	0.04546	0.04563					
	0.04831						AVRG		0.04564		9.80664

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.03522	0.04042	0.03424	0.03385	0.03683	0.03737						
	0.03928							AVRG		0.03674		6.78934
13 Vinyl Bromide	0.08975	0.10765	0.08918	0.09053	0.09716	0.09296						
	0.09853							AVRG		0.09511		6.95676
14 Isopentane	2027	3504	8126	19900	145015	281297						
	397743							LINR	0.00137	0.09936		0.99946
15 Freon 123	3166	6319	15648	16103	129273	313230						
	415076							LINR	0.00086	0.10477		0.99707
16 Trichlorofluoromethane	0.26982	0.32357	0.26730	0.26491	0.26724	0.25660						
	0.26965							AVRG		0.27416		8.11471
17 Acrolein	775	1831	4758	9510	138213	268448						
	385253							QUAD	-0.00070	0.03680	0.00028	0.99942
18 Acetone	0.18064	0.18872	0.15744	0.15292	0.14823	0.14001						
	0.14269							AVRG		0.15867		11.88329

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
19 Isopropyl Alcohol	0.15763	0.18004	0.16031	0.15685	0.16644	0.15379					
	0.15766						AVRG		0.16182		5.52630
20 1,1-Dichloroethene	0.15042	0.18079	0.15074	0.15557	0.16140	0.15494					
	0.16226						AVRG		0.15945		6.57851
21 Acrylonitrile	0.06401	0.07958	0.07178	0.06963	0.07949	0.07360					
	0.07512						AVRG		0.07332		7.53853
22 Freon 113	0.20290	0.23676	0.21541	0.21019	0.20544	0.18768					
	0.19083						AVRG		0.20703		7.93831
23 Methyl Acetate	0.24600	0.28365	0.24125	0.23673	0.24529	0.22152					
	0.21654						AVRG		0.24157		9.03208
24 Tert Butyl Alcohol (TBA)	0.20789	0.23454	0.21267	0.20927	0.21143	0.19109					
	0.18922						AVRG		0.20802		7.28573
25 Methylene chloride	0.12486	0.12863	0.11364	0.10974	0.10908	0.09990					
	0.09808						AVRG		0.11199		10.29977

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
26 Allyl Chloride	998	2156	5091	11220	140726	270021					
	360233						QUAD	-0.00091	0.04080	-0.00057	0.99986
27 Carbon Disulfide	0.17986	0.19150	0.20428	0.20601	0.23438	0.22813					
	0.23219						AVRG		0.21091		10.07488
28 trans-1,2-dichloroethene	0.07503	0.08339	0.09494	0.09061	0.09728	0.09169					
	0.09329						AVRG		0.08946		8.62620
29 Methyl Tert Butyl Ether	0.25867	0.26679	0.26248	0.25662	0.25690	0.24424					
	0.23949						AVRG		0.25503		3.82490
30 Vinyl Acetate	+++++	4581	11738	24341	385061	772513					
	1072670						QUAD	-0.00502	0.27169	0.00039	0.99985
31 1,1-Dichloroethane	0.16713	0.17331	0.17791	0.16887	0.17978	0.17421					
	0.17860						AVRG		0.17426		2.80642
33 Methyl Ethyl Ketone	413	1030	3113	6401	65846	136332					
	188259						LINR	-0.00035	0.04762		0.99995

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.15219	0.17180	0.15757	0.15809	0.16476	0.15753					
	0.15431						AVRG		0.15946		4.19713
35 Di-isopropyl Ether	0.29073	0.32953	0.30665	0.31510	0.31267	0.30686					
	0.30329						AVRG		0.30926		3.84474
36 Ethyl Acetate	0.18718	0.20821	0.20219	0.20145	0.22630	0.20681					
	0.20449						AVRG		0.20523		5.64392
37 cis-1,2-Dichloroethene	0.08790	0.09791	0.09585	0.10208	0.11359	0.10201					
	0.10033						AVRG		0.09995		7.76168
38 Ethyl Tert-Butyl Ether	0.33357	0.32421	0.30640	0.35487	0.34762	0.31600					
	0.28396						AVRG		0.32381		7.54289
39 Chloroform	0.19920	0.19789	0.20212	0.22254	0.22603	0.20669					
	0.19573						AVRG		0.20717		5.90539
40 Tetrahydrofuran	0.09352	0.11602	0.11217	0.11030	0.11359	0.11356					
	0.11599						AVRG		0.11074		7.09391

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.22737	0.25316	0.24262	0.24336	0.25641	0.24012					
	0.24303						AVRG		0.24372		3.86416
42 1,2-Dichloroethane	0.18128	0.20743	0.18724	0.17899	0.18979	0.17568					
	0.17382						AVRG		0.18489		6.21802
43 Benzene	0.31171	0.32607	0.33236	0.31269	0.33860	0.32105					
	0.31508						AVRG		0.32251		3.19963
44 Carbon tetrachloride	0.20909	0.24599	0.24225	0.23334	0.27264	0.25235					
	0.24937						AVRG		0.24358		7.96219
45 Cyclohexane	0.16443	0.16627	0.16904	0.16158	0.16763	0.15400					
	0.14717						AVRG		0.16145		4.97615
46 Tert Amyl Methyl Ether	18270	20967	35082	56548	445708	890854					
	1221003						LINR	0.00956	0.30539		0.99998
48 2,2,4-Trimethylpentane	0.50958	0.53058	0.50192	0.51218	0.51793	0.47603					
	0.44850						AVRG		0.49953		5.61871

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
49 Heptane	0.16777	0.18321	0.17622	0.17889	0.18730	0.18280						
	0.18526						AVRG		0.18021		3.68106	
50 1,2-Dichloropropane	0.10497	0.12424	0.11629	0.11669	0.12070	0.11726						
	0.11759						AVRG		0.11682		5.08339	
51 Trichloroethene	0.15582	0.17814	0.16982	0.16813	0.17159	0.16617						
	0.16646						AVRG		0.16802		4.01609	
52 Methyl methacrylate	0.09772	0.11462	0.09998	0.10330	0.11687	0.11624						
	0.11625						AVRG		0.10928		7.82967	
53 1,4-Dioxane	+++++	0.07571	0.07103	0.06920	0.07879	0.07867						
	0.07869						AVRG		0.07535		5.65122	<-
54 Bromodichloromethane	0.21158	0.24802	0.22534	0.22917	0.25791	0.24572						
	0.24880						AVRG		0.23808		6.87954	
55 Methylcyclohexane	880	2326	5684	12229	132902	266242						
	381479						QUAD	0.00004	0.08838	0.00263	0.99977	

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
						30.0000 Level 7					
56 Methyl Isobutyl Ketone	0.22195	0.26034	0.23797	0.24491	0.26557	0.24586					
	0.24523						AVRG		0.24597		5.82913
57 cis-1,3-Dichloropropene	1869	4624	11439	23875	285919	572916					
	802416						LINR	-0.00192	0.20261		0.99982
58 trans-1,3-Dichloropropene	1570	3360	9313	20281	268282	540240					
	767727						QUAD	-0.00158	0.18207	0.00413	0.99982
60 1,1,2-Trichloroethane	0.13072	0.14804	0.13627	0.12746	0.13595	0.12970					
	0.13071						AVRG		0.13412		5.17316
61 Toluene	0.38916	0.44540	0.40158	0.39773	0.40896	0.39760					
	0.38675						AVRG		0.40388		4.89194
62 Methyl Butyl Ketone	0.28663	0.29631	0.30585	0.31073	0.36206	0.34067					
	0.30862						AVRG		0.31584		8.34206
63 n-Octane	0.29207	0.33524	0.34580	0.35107	0.38006	0.35999					
	0.33009						AVRG		0.34204		8.05009

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	2474 +++++	5941	14525	31027	385835	768082		LINR	-0.00176	0.39596		0.99963
65 1,2-Dibromoethane	0.29331	0.32167	0.31961	0.32276	0.34926	0.33384		AVRG		0.32276		5.24361
	0.31887											
66 Tetrachloroethene	0.34391	0.39141	0.35716	0.34645	0.34946	0.33288		AVRG		0.34724		7.15405
	0.30942											
68 Chlorobenzene	0.50757	0.49302	0.50324	0.47975	0.51011	0.49597		AVRG		0.49598		2.39875
	0.48219											
69 Ethyl Benzene	0.63105	0.69350	0.75373	0.75767	0.80239	0.76885		AVRG		0.73550		7.67448
	0.74134											
70 m&p-Xylene	0.54709	0.56056	0.58709	0.58750	0.63367	0.58090		AVRG		0.57729		5.32940
	0.54419											
71 n-Nonane	0.23991	0.25232	0.30355	0.32308	0.35571	0.32001		AVRG		0.29775		13.71498
	0.28968											

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
72 Bromoform	1731 / 1008290	3665	10681	23365	367770	705920	QUAD	-0.00691	0.40720	-0.02023	0.99982
73 Styrene	3030 / 1314898	6483	19327	41273	465333	918818	QUAD	-0.00399	0.51302	-0.02071	0.99999
74 o-Xylene	0.54284 / 0.58304	0.55619	0.58404	0.60209	0.63683	0.60612	AVRG		0.58731		5.38409
75 1,1,2,2-Tetrachloroethane	0.28133 / 0.34089	0.29909	0.30949	0.31566	0.36746	0.35145	AVRG		0.32362		9.48066
76 Isopropylbenzene	0.86950 / 0.78729	0.84572	0.82595	0.80512	0.86425	0.82068	AVRG		0.83122		3.64806
77 N-Propylbenzene	5321 / +++++	12256	35990	77311	929423	1826015	LINR	-0.00241	0.94285		0.99939
78 4-Ethyltoluene	4421 / 2322755	10605	30251	69266	815307	1614385	QUAD	-0.00900	0.89638	-0.03311	0.99998

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	4235	9860	28097	61066	689551	1370583					
	+++++						LINR	-0.00130	0.70575		0.99966
80 n-Decane	1450	3858	11603	27313	350331	729038					
	1038909						LINR	-0.00620	0.26167		0.99940
81 Tert-Butyl Benzene	0.56680	0.61270	0.67584	0.68138	0.74872	0.70347					
	0.65929						AVRG		0.66403		8.96869
82 1,2,4-Trimethylbenzene	0.49112	0.54574	0.57970	0.62431	0.68706	0.63694					
	0.59336						AVRG		0.59403		10.76645
83 1,3-Dichlorobenzene	2849	6190	16619	35362	423299	815126					
	+++++						LINR	0.00042	0.42172		0.99883
84 Sec- Butylbenzene	0.69229	0.74745	0.81958	0.87314	0.98355	0.88644					
	0.82157						AVRG		0.83200		11.46062
86 Benzyl Chloride	+++++	3597	9078	22499	427013	897595					
	1343950						QUAD	-0.01363	0.46373	0.00022	0.99991

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
87 1,4-Dichlorobenzene	0.34312	0.35215	0.36805	0.38523	0.44083	0.42325					
	0.41139						AVRG		0.38915		9.54420
88 p-Isopropyltoluene	4750	11000	31230	67948	793111	1535893					
	+++++						LINR	0.00032	0.79402		0.99902
89 1,2,3-Trimethylbenzene	0.49291	0.51053	0.57370	0.59567	0.68477	0.63533					
	0.61245						AVRG		0.58648		11.54196
90 1,2-Dichlorobenzene	2466	5537	14338	32463	395633	776749					
	1131959						QUAD	-0.00389	0.42770	-0.01328	0.99994
91 N-Butylbenzene	2805	7061	20942	47311	612616	1214291					
	1755538						LINR	0.00139	0.60841		0.99917
92 1,2-Dibromo-3-Chloropropane	387	957	3096	7071	154681	319932					
	467876						LINR	-0.00318	0.16248		0.99959
93 1,2,4-Trichlorobenzene	+++++	513	2447	7389	156379	358428					
	553071						QUAD	-0.00633	0.16753	0.00809	0.99974

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	645	1944	7018	19022	369664	797177					
	1218782						LINR	-0.01424	0.41809		0.99958
95 Hexachlorobutadiene	0.13792	0.16150	0.17377	0.18747	0.19308	0.18620					
	0.17473						AVRG		0.17353		10.91245
$ 32 Hexane-d14(S)	0.31889	0.30929	0.31483	0.31375	0.31188	0.32281					
	0.33562						AVRG		0.31815		2.79904
$ 59 Toluene-d8 (S)	0.86049	0.94509	0.86662	0.86999	0.88227	0.89817					
	0.94256						AVRG		0.89503		3.96718
$ 85 1,4-dichlorobenzene-d4 (S)	0.49310	0.47520	0.50594	0.53279	0.61007	0.62504					
	0.61393						AVRG		0.55087		11.57446

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Average %RSD Results.	
Calculated Average %RSD =	6.97496
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06401BFB.D BFB Injection Date: 03/05/2017
Instrument ID: 10AIRB BFB Injection Time: 09:08
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.04	
75	30.00 - 66.00% of mass 95	47.83	
96	5.00 - 9.00% of mass 95	6.22	
173	Less than 2.00% of mass 174	0.95	(0.99)
174	50.00 - 120.00% of mass 95	95.49	
175	4.00 - 9.00% of mass 174	6.70	(7.02)
176	93.00 - 101.00% of mass 174	91.43	(95.75)
177	5.00 - 9.00% of mass 176	6.11	(6.68)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 462594 [AIR/27839]	2529704	06402_27839.D	03/05/2017	09:36
2	CCV	CCV	06402.D	03/05/2017	09:36
3	BLANK for HBN 462594 [AIR/2783	2529703	06409_27839.D	03/05/2017	13:11
4	VP-NYSDEC-5_5_20170223	10380193001	06418.D	03/05/2017	17:49
5	VP-NYSDEC-5_5_2...(2524233DUP)	2530069-DUP	06419.D	03/05/2017	18:20
6	VP-NYSDEC-5_10_20170223	10380193002	06420.D	03/05/2017	18:53
7	VP-NYSDEC-5_20_20170223	10380193003	06422.D	03/05/2017	19:59
8	VP-NYSDEC-5_30_20170223	10380193004	06423.D	03/05/2017	20:31
9	VP-NYSDEC-5_40_20170223	10380193005	06424.D	03/05/2017	21:02
10	VP-NYSDEC-5_50_20170223	10380193006	06425.D	03/05/2017	21:33
11	VP-9_10_20170223	10380193007	06426.D	03/05/2017	22:04
12	VP-9_20_20170223	10380193008	06427.D	03/05/2017	22:37
13	VP-9_30_20170223	10380193009	06428.D	03/05/2017	23:10
14	VP-9_40_20170223	10380193010	06429.D	03/05/2017	23:41
15	VP-9_50_20170223	10380193011	06431.D	03/06/2017	00:39
16	VP-9_60_20170223	10380193012	06432.D	03/06/2017	01:10
17	VP-105_5_20170223	10380193013	06433.D	03/06/2017	01:43

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	5.95094	0.04349	0.010	-40.49065	30.00000	Line		<-
	2 1,1-Difluoroethane	0.05863	0.05687	0.05687	0.010	-2.98870	30.00000	Aver		
	3 Chlorodifluoromethane	10.00000	9.89362	0.02780	0.010	-1.06375	30.00000	Line		
	4 Propylene	10.00000	8.79567	0.06562	0.010	-12.04329	30.00000	Line		
	5 Dichlorodifluoromethane	10.00000	9.81287	0.27885	0.010	-1.87128	30.00000	Line		
	6 Chloromethane	0.11490	0.10738	0.10738	0.010	-6.53830	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.27763	0.25581	0.25581	0.010	-7.85894	30.00000	Aver		
	8 Vinyl chloride	0.09925	0.09398	0.09398	0.010	-5.31650	30.00000	Aver		
	9 1,3-Butadiene	0.07229	0.07046	0.07046	0.010	-2.52096	30.00000	Aver		
	10 Bromomethane	0.09182	0.08632	0.08632	0.010	-5.99227	30.00000	Aver		
	11 Chloroethane	0.04564	0.04118	0.04118	0.010	-9.76728	30.00000	Aver		
	12 Ethanol	0.03674	0.03196	0.03196	0.005	-13.02125	30.00000	Aver		
	13 Vinyl Bromide	0.09511	0.08975	0.08975	0.010	-5.63138	30.00000	Aver		
	14 Isopentane	10.00000	9.68376	0.09758	0.010	-3.16239	30.00000	Line		
	15 Freon 123	10.00000	7.70672	0.08160	0.010	-22.93282	30.00000	Line		
	16 Trichlorofluoromethane	0.27416	0.25217	0.25217	0.010	-8.02013	30.00000	Aver		
	17 Acrolein	25.00000	23.50046	0.03494	0.010	-5.99815	30.00000	Quad		
	18 Acetone	0.15867	0.13573	0.13573	0.010	-14.45730	30.00000	Aver		
	19 Isopropyl Alcohol	0.16182	0.14772	0.14772	0.010	-8.71206	30.00000	Aver		
	20 1,1-Dichloroethene	0.15945	0.15154	0.15154	0.010	-4.95750	30.00000	Aver		
	21 Acrylonitrile	0.07332	0.07226	0.07226	0.010	-1.44396	30.00000	Aver		
	22 Freon 113	0.20703	0.19523	0.19523	0.010	-5.70109	30.00000	Aver		
	23 Methyl Acetate	0.24157	0.23131	0.23131	0.010	-4.24875	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.20802	0.20159	0.20159	0.010	-3.09060	30.00000	Aver		
	25 Methylene chloride	0.11199	0.10374	0.10374	0.010	-7.36392	30.00000	Aver		
	26 Allyl Chloride	25.00000	24.16612	0.03775	0.010	-3.33553	30.00000	Quad		
	27 Carbon Disulfide	0.21091	0.22369	0.22369	0.010	6.06122	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.08946	0.09296	0.09296	0.010	3.91051	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.25503	0.24398	0.24398	0.010	-4.33001	30.00000	Aver		
	30 Vinyl Acetate	10.00000	9.41597	0.25114	0.010	-5.84028	30.00000	Quad		
	31 1,1-Dichloroethane	0.17426	0.17031	0.17031	0.010	-2.26804	30.00000	Aver		
$	32 Hexane-d14(S)	0.31815	0.31358	0.31358	0.010	-1.43741	30.00000	Aver		
	33 Methyl Ethyl Ketone	10.00000	9.32700	0.04407	0.010	-6.73000	30.00000	Line		
	34 n-Hexane	0.15946	0.15440	0.15440	0.010	-3.17721	30.00000	Aver	(M)	
	35 Di-isopropyl Ether	0.30926	0.29677	0.29677	0.010	-4.03993	30.00000	Aver		
	36 Ethyl Acetate	0.20523	0.19699	0.19699	0.010	-4.01765	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.09995	0.10170	0.10170	0.010	1.74201	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.32381	0.29406	0.29406	0.010	-9.18557	30.00000	Aver		
	39 Chloroform	0.20717	0.19832	0.19832	0.010	-4.27336	30.00000	Aver		
	40 Tetrahydrofuran	0.11074	0.10312	0.10312	0.010	-6.88125	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.24372	0.24572	0.24572	0.010	0.81922	30.00000	Aver		
	42 1,2-Dichloroethane	0.18489	0.17932	0.17932	0.010	-3.01020	30.00000	Aver		

RRF greater than laboratory minimum. No validation required.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	43 Benzene	0.32251	0.32110	0.32110	0.010	-0.43753	30.00000	Aver	
	44 Carbon tetrachloride	0.24358	0.26156	0.26156	0.010	7.38452	30.00000	Aver	
	45 Cyclohexane	0.16145	0.15550	0.15550	0.010	-3.68484	30.00000	Aver	
	46 Tert Amyl Methyl Ether	10.00000	9.42662	0.29744	0.010	-5.73375	30.00000	Line	
	48 2,2,4-Trimethylpentane	0.49953	0.48380	0.48380	0.010	-3.14877	30.00000	Aver	
	49 Heptane	0.18021	0.17224	0.17224	0.010	-4.41825	30.00000	Aver	
	50 1,2-Dichloropropane	0.11682	0.11251	0.11251	0.010	-3.68941	30.00000	Aver	
	51 Trichloroethene	0.16802	0.16280	0.16280	0.010	-3.10752	30.00000	Aver	
	52 Methyl methacrylate	0.10928	0.10602	0.10602	0.010	-2.98241	30.00000	Aver	
	53 1,4-Dioxane	0.07535	0.07299	0.07299	0.010	-3.12715	30.00000	Aver	
	54 Bromodichloromethane	0.23808	0.23664	0.23664	0.010	-0.60402	30.00000	Aver	
	55 Methylcyclohexane	10.00000	9.44647	0.08588	0.010	-5.53531	30.00000	Quad	
	56 Methyl Isobutyl Ketone	0.24597	0.23210	0.23210	0.010	-5.64128	30.00000	Aver	
	57 cis-1,3-Dichloropropene	10.00000	9.35091	0.18754	0.010	-6.49092	30.00000	Line	
	58 trans-1,3-Dichloropropene	10.00000	9.56218	0.17630	0.010	-4.37823	30.00000	Quad	
$	59 Toluene-d8 (S)	0.89503	0.83975	0.83975	0.010	-6.17637	30.00000	Aver	
	60 1,1,2-Trichloroethane	0.13412	0.12609	0.12609	0.010	-5.99098	30.00000	Aver	
	61 Toluene	0.40388	0.38649	0.38649	0.010	-4.30703	30.00000	Aver	
	62 Methyl Butyl Ketone	0.31584	0.33103	0.33103	0.010	4.80865	30.00000	Aver	
	63 n-Octane	0.34204	0.32826	0.32826	0.010	-4.03028	30.00000	Aver	
	64 Dibromochloromethane	10.00000	9.80152	0.38634	0.010	-1.98483	30.00000	Line	
	65 1,2-Dibromoethane	0.32276	0.33369	0.33369	0.010	3.38746	30.00000	Aver	
	66 Tetrachloroethene	0.34724	0.34451	0.34451	0.010	-0.78561	30.00000	Aver	
	68 Chlorobenzene	0.49598	0.49500	0.49500	0.010	-0.19771	30.00000	Aver	
	69 Ethyl Benzene	0.73550	0.76214	0.76214	0.010	3.62108	30.00000	Aver	
	70 m&p-Xylene	0.57729	0.59309	0.59309	0.010	2.73688	30.00000	Aver	
	71 n-Nonane	0.29775	0.34066	0.34066	0.010	14.41192	30.00000	Aver	
	72 Bromoform	10.00000	9.85964	0.37492	0.010	-1.40357	30.00000	Quad	
	73 Styrene	10.00000	9.73387	0.47575	0.010	-2.66130	30.00000	Quad	
	74 o-Xylene	0.58731	0.59877	0.59877	0.010	1.95106	30.00000	Aver	
	75 1,1,2,2-Tetrachloroethane	0.32362	0.35474	0.35474	0.010	9.61628	30.00000	Aver	
	76 Isopropylbenzene	0.83122	0.84183	0.84183	0.010	1.27728	30.00000	Aver	
	77 N-Propylbenzene	10.00000	10.16911	0.95638	0.010	1.69109	30.00000	Line	
	78 4-Ethyltoluene	10.00000	9.91522	0.84723	0.010	-0.84783	30.00000	Quad	
	79 1,3,5-Trimethylbenzene	10.00000	10.30251	0.72580	0.010	3.02509	30.00000	Line	
	80 n-Decane	10.00000	10.05606	0.25694	0.010	0.56057	30.00000	Line	
	81 Tert-Butyl Benzene	0.66403	0.74796	0.74796	0.010	12.64074	30.00000	Aver	
	82 1,2,4-Trimethylbenzene	0.59403	0.68375	0.68375	0.010	15.10319	30.00000	Aver	
	83 1,3-Dichlorobenzene	10.00000	10.46569	0.44179	0.010	4.65690	30.00000	Line	
	84 Sec- Butylbenzene	0.83200	0.95789	0.95789	0.010	15.13067	30.00000	Aver	
$	85 1,4-dichlorobenzene-d4 (S)	0.55087	0.62253	0.62253	0.010	13.00930	30.00000	Aver	(M)
	86 Benzyl Chloride	10.00000	10.09163	0.45457	0.010	0.91634	30.00000	Quad	

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.43815	0.43815	0.010	12.59229	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.32826	0.82040	0.010	3.28262	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.66671	0.66671	0.010	13.68067	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.01620	0.41117	0.010	0.16198	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.52355	0.64165	0.010	5.23555	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.30687	0.16428	0.010	3.06865	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.99354	0.16917	0.010	-0.06461	30.00000	Quad	
94 Naphthalene	10.00000	9.63840	0.38873	0.010	-3.61601	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.18326	0.18326	0.010	5.61095	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 5.60064
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06501BFB.D BFB Injection Date: 03/06/2017
Instrument ID: 10AIRB BFB Injection Time: 08:42
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.14	
75	30.00 - 66.00% of mass 95	46.63	
96	5.00 - 9.00% of mass 95	6.64	
173	Less than 2.00% of mass 174	0.90	(0.95)
174	50.00 - 120.00% of mass 95	94.92	
175	4.00 - 9.00% of mass 174	6.78	(7.14)
176	93.00 - 101.00% of mass 174	91.76	(96.67)
177	5.00 - 9.00% of mass 176	5.88	(6.41)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06502.D	03/06/2017	09:10
2	LCS for HBN 462794 [AIR/27846]	2530440	06502_27846.D	03/06/2017	09:10
3	BLANK for HBN 462794 [AIR/2784	2530439	06504_27846.D	03/06/2017	10:09
4	CERT	CERT	06504.D	03/06/2017	10:09
5	VP-NYSDEC-5_20_20170223 DL	10380193003	06508.D	03/06/2017	12:14
6	VP-NYSDEC-5_30_20170223 DL	10380193004	06509.D	03/06/2017	12:42
7	VP-NYSDEC-5_40_20170223 DL	10380193005	06510.D	03/06/2017	13:10
8	VP-NYSDEC-5_50_20170223 DL	10380193006	06511.D	03/06/2017	13:38
9	VP-9_30_20170223 DL	10380193009	06512.D	03/06/2017	14:06
10	VP-9_50_20170223 DL	10380193011	06513.D	03/06/2017	14:34
11	VP-9_60_20170223 DL	10380193012	06514.D	03/06/2017	15:02
12	VP-9_40_20170223 DL	10380193010	06515.D	03/06/2017	15:30
13	VP-9_20_20170223 DL	10380193008	06516.D	03/06/2017	15:58
14	IA-2(2527393DUP)	2530739-DUP	06531.D	03/07/2017	00:07
15	VP-105_10_20170223 DL	10380193014	06534.D	03/07/2017	01:33
16	VP-105_50_20170223	10380193016	06536.D	03/07/2017	02:27
17	VP-105_60_20170223	10380193017	06537.D	03/07/2017	02:54
18	VP-105_72_20170223	10380193018	06538.D	03/07/2017	03:21
19	VP-9_60_20170223DUP	10380193019	06539.D	03/07/2017	03:49

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 06-MAR-2017 09:10
Lab File ID: 06502.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	16.51054	0.12227	0.010	65.10542	30.00000	Line		<-
	2 1,1-Difluoroethane	0.05863	0.06581	0.06581	0.010	12.25310	30.00000	Aver		
	3 Chlorodifluoromethane	10.00000	10.61169	0.02981	0.010	6.11687	30.00000	Line		
	4 Propylene	10.00000	10.40042	0.07674	0.010	4.00419	30.00000	Line		
	5 Dichlorodifluoromethane	10.00000	10.57940	0.30046	0.010	5.79395	30.00000	Line	(H)	
	6 Chloromethane	0.11490	0.12179	0.12179	0.010	6.00295	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.27763	0.27956	0.27956	0.010	0.69468	30.00000	Aver		
	8 Vinyl chloride	0.09925	0.09490	0.09490	0.010	-4.38894	30.00000	Aver		
	9 1,3-Butadiene	0.07229	0.06912	0.06912	0.010	-4.37519	30.00000	Aver		
	10 Bromomethane	0.09182	0.08249	0.08249	0.010	-10.16644	30.00000	Aver		
	11 Chloroethane	0.04564	0.04027	0.04027	0.010	-11.76440	30.00000	Aver		
	12 Ethanol	0.03674	0.03244	0.03244	0.005	-11.72572	30.00000	Aver		
	13 Vinyl Bromide	0.09511	0.08680	0.08680	0.010	-8.73641	30.00000	Aver		
	14 Isopentane	10.00000	8.79145	0.08872	0.010	-12.08547	30.00000	Line		
	15 Freon 123	10.00000	7.77184	0.08228	0.010	-22.28158	30.00000	Line		
	16 Trichlorofluoromethane	0.27416	0.23264	0.23264	0.010	-15.14237	30.00000	Aver		
	17 Acrolein	25.00000	21.90301	0.03250	0.010	-12.38796	30.00000	Quad		
	18 Acetone	0.15867	0.13067	0.13067	0.010	-17.64664	30.00000	Aver		
	19 Isopropyl Alcohol	0.16182	0.14145	0.14145	0.010	-12.58739	30.00000	Aver		
	20 1,1-Dichloroethene	0.15945	0.14276	0.14276	0.010	-10.46330	30.00000	Aver		
	21 Acrylonitrile	0.07332	0.06916	0.06916	0.010	-5.67205	30.00000	Aver		
	22 Freon 113	0.20703	0.17845	0.17845	0.010	-13.80452	30.00000	Aver		
	23 Methyl Acetate	0.24157	0.21242	0.21242	0.010	-12.06598	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.20802	0.18518	0.18518	0.010	-10.97603	30.00000	Aver	(M)	
	25 Methylene chloride	0.11199	0.09634	0.09634	0.010	-13.96971	30.00000	Aver		
	26 Allyl Chloride	25.00000	21.58852	0.03381	0.010	-13.64592	30.00000	Quad		
	27 Carbon Disulfide	0.21091	0.20654	0.20654	0.010	-2.06871	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.08946	0.08424	0.08424	0.010	-5.83861	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.25503	0.22486	0.22486	0.010	-11.82867	30.00000	Aver		
	30 Vinyl Acetate	10.00000	8.96231	0.23879	0.010	-10.37691	30.00000	Quad		
	31 1,1-Dichloroethane	0.17426	0.15697	0.15697	0.010	-9.91949	30.00000	Aver		
$	32 Hexane-d14(S)	0.31815	0.27653	0.27653	0.010	-13.08213	30.00000	Aver		
	33 Methyl Ethyl Ketone	10.00000	8.67778	0.04098	0.010	-13.22222	30.00000	Line		
	34 n-Hexane	0.15946	0.14548	0.14548	0.010	-8.76675	30.00000	Aver		
	35 Di-isopropyl Ether	0.30926	0.28257	0.28257	0.010	-8.63201	30.00000	Aver		
	36 Ethyl Acetate	0.20523	0.19106	0.19106	0.010	-6.90491	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.09995	0.09358	0.09358	0.010	-6.37820	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.32381	0.34625	0.34625	0.010	6.93074	30.00000	Aver		
	39 Chloroform	0.20717	0.22228	0.22228	0.010	7.29470	30.00000	Aver		
	40 Tetrahydrofuran	0.11074	0.11567	0.11567	0.010	4.45755	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.24372	0.24592	0.24592	0.010	0.90213	30.00000	Aver		
	42 1,2-Dichloroethane	0.18489	0.18760	0.18760	0.010	1.46455	30.00000	Aver		

RRF greater than laboratory minimum. No validation required.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 06-MAR-2017 09:10
Lab File ID: 06502.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	43 Benzene	0.32251	0.34806	0.34806	0.010	7.92447	30.00000	Aver	
	44 Carbon tetrachloride	0.24358	0.25623	0.25623	0.010	5.19665	30.00000	Aver	
	45 Cyclohexane	0.16145	0.16910	0.16910	0.010	4.73912	30.00000	Aver	
	46 Tert Amyl Methyl Ether	10.00000	10.03153	0.31591	0.010	0.31530	30.00000	Line	
	48 2,2,4-Trimethylpentane	0.49953	0.53069	0.53069	0.010	6.23847	30.00000	Aver	
	49 Heptane	0.18021	0.19638	0.19638	0.010	8.97424	30.00000	Aver	
	50 1,2-Dichloropropane	0.11682	0.12534	0.12534	0.010	7.29711	30.00000	Aver	
	51 Trichloroethene	0.16802	0.17879	0.17879	0.010	6.41307	30.00000	Aver	
	52 Methyl methacrylate	0.10928	0.12181	0.12181	0.010	11.46572	30.00000	Aver	
	53 1,4-Dioxane	0.07535	0.08290	0.08290	0.010	10.02209	30.00000	Aver	
	54 Bromodichloromethane	0.23808	0.25808	0.25808	0.010	8.40282	30.00000	Aver	
	55 Methylcyclohexane	10.00000	10.75739	0.09816	0.010	7.57391	30.00000	Quad	
	56 Methyl Isobutyl Ketone	0.24597	0.26881	0.26881	0.010	9.28586	30.00000	Aver	
	57 cis-1,3-Dichloropropene	10.00000	10.14894	0.20371	0.010	1.48935	30.00000	Line	
	58 trans-1,3-Dichloropropene	10.00000	10.33206	0.19094	0.010	3.32057	30.00000	Quad	
$	59 Toluene-d8 (S)	0.89503	0.88859	0.88859	0.010	-0.71907	30.00000	Aver	
	60 1,1,2-Trichloroethane	0.13412	0.14014	0.14014	0.010	4.49074	30.00000	Aver	
	61 Toluene	0.40388	0.42806	0.42806	0.010	5.98624	30.00000	Aver	
	62 Methyl Butyl Ketone	0.31584	0.37361	0.37361	0.010	18.29183	30.00000	Aver	
	63 n-Octane	0.34204	0.37988	0.37988	0.010	11.06184	30.00000	Aver	
	64 Dibromochloromethane	10.00000	10.30856	0.40642	0.010	3.08561	30.00000	Line	
	65 1,2-Dibromoethane	0.32276	0.35712	0.35712	0.010	10.64613	30.00000	Aver	
	66 Tetrachloroethene	0.34724	0.35968	0.35968	0.010	3.58101	30.00000	Aver	
	68 Chlorobenzene	0.49598	0.53036	0.53036	0.010	6.93245	30.00000	Aver	
	69 Ethyl Benzene	0.73550	0.81774	0.81774	0.010	11.18110	30.00000	Aver	
	70 m&p-Xylene	0.57729	0.62980	0.62980	0.010	9.09650	30.00000	Aver	
	71 n-Nonane	0.29775	0.37074	0.37074	0.010	24.51219	30.00000	Aver	
	72 Bromoform	10.00000	10.22450	0.38829	0.010	2.24497	30.00000	Quad	
	73 Styrene	10.00000	10.34952	0.50478	0.010	3.49518	30.00000	Quad	
	74 o-Xylene	0.58731	0.64455	0.64455	0.010	9.74700	30.00000	Aver	
	75 1,1,2,2-Tetrachloroethane	0.32362	0.38596	0.38596	0.010	19.26274	30.00000	Aver	
	76 Isopropylbenzene	0.83122	0.89098	0.89098	0.010	7.18949	30.00000	Aver	
	77 N-Propylbenzene	10.00000	10.89973	1.02526	0.010	8.99727	30.00000	Line	
	78 4-Ethyltoluene	10.00000	10.65820	0.90876	0.010	6.58202	30.00000	Quad	
	79 1,3,5-Trimethylbenzene	10.00000	10.97175	0.77304	0.010	9.71751	30.00000	Line	
	80 n-Decane	10.00000	11.00198	0.28169	0.010	10.01977	30.00000	Line	
	81 Tert-Butyl Benzene	0.66403	0.78223	0.78223	0.010	17.80076	30.00000	Aver	
	82 1,2,4-Trimethylbenzene	0.59403	0.71618	0.71618	0.010	20.56264	30.00000	Aver	
	83 1,3-Dichlorobenzene	10.00000	10.94777	0.46212	0.010	9.47774	30.00000	Line	
	84 Sec- Butylbenzene	0.83200	1.00722	1.00722	0.010	21.06006	30.00000	Aver	
$	85 1,4-dichlorobenzene-d4 (S)	0.55087	0.65545	0.65545	0.010	18.98538	30.00000	Aver	
	86 Benzyl Chloride	10.00000	9.45567	0.42505	0.010	-5.44332	30.00000	Quad	

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030617.b\06502.D
Report Date: 06-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 06-MAR-2017 09:10
Lab File ID: 06502.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030617.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.46202	0.46202	0.010	18.72655	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.82927	0.86018	0.010	8.29272	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.69830	0.69830	0.010	19.06568	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.41035	0.42696	0.010	4.10348	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.92571	0.66612	0.010	9.25715	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.64252	0.16974	0.010	6.42517	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	10.84794	0.18493	0.010	8.47943	30.00000	Quad	
94 Naphthalene	10.00000	10.72337	0.43409	0.010	7.23373	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.19849	0.19849	0.010	14.38582	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 9.85725
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193
Lab File ID: 06601BFB.D BFB Injection Date: 03/07/2017
Instrument ID: 10AIRB BFB Injection Time: 08:30
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.28	
75	30.00 - 66.00% of mass 95	47.24	
96	5.00 - 9.00% of mass 95	6.60	
173	Less than 2.00% of mass 174	0.98	(0.96)
174	50.00 - 120.00% of mass 95	101.69	
175	4.00 - 9.00% of mass 174	7.28	(7.16)
176	93.00 - 101.00% of mass 174	98.02	(96.40)
177	5.00 - 9.00% of mass 176	6.37	(6.49)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06602.D	03/07/2017	08:58
2	LCS for HBN 462987 [AIR/27858]	2531282	06602_27858.D	03/07/2017	08:58
3	CERT	CERT	06604.D	03/07/2017	09:56
4	BLANK for HBN 462987 [AIR/2785	2531281	06604_27858.D	03/07/2017	09:56
5	VP-105_72_20170223 DL	10380193018	06615.D	03/07/2017	15:15
6	VP-105_50_20170223 DL	10380193016	06616.D	03/07/2017	15:42
7	VP-105_60_20170223 DL	10380193017	06617.D	03/07/2017	16:10
8	VP-9_60_20170223DUP DL	10380193019	06618.D	03/07/2017	16:38
9	VP-105_10_20170223	10380193014	06622.D	03/07/2017	18:33
10	VP-105_10_20170223(2524246DUP)	2531695-DUP	06623.D	03/07/2017	19:05
11	VP-105_20_20170223	10380193015	06624.D	03/07/2017	19:37

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 07-MAR-2017 08:58
Lab File ID: 06602.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
1	Chloropentafluoroethane	10.00000	10.67860	0.07876	0.010	6.78595	30.00000	Line	
2	1,1-Difluoroethane	0.05863	0.06146	0.06146	0.010	4.83756	30.00000	Aver	
3	Chlorodifluoromethane	10.00000	10.59274	0.02976	0.010	5.92741	30.00000	Line	
4	Propylene	10.00000	9.28511	0.06901	0.010	-7.14889	30.00000	Line	(H)
5	Dichlorodifluoromethane	10.00000	10.76280	0.30563	0.010	7.62799	30.00000	Line	(H)
6	Chloromethane	0.11490	0.11517	0.11517	0.010	0.23760	30.00000	Aver	
7	Dichlorotetrafluoroethane	0.27763	0.28652	0.28652	0.010	3.20226	30.00000	Aver	
8	Vinyl chloride	0.09925	0.09962	0.09962	0.010	0.36824	30.00000	Aver	
9	1,3-Butadiene	0.07229	0.07138	0.07138	0.010	-1.25809	30.00000	Aver	
10	Bromomethane	0.09182	0.08970	0.08970	0.010	-2.31165	30.00000	Aver	
11	Chloroethane	0.04564	0.04220	0.04220	0.010	-7.54282	30.00000	Aver	
12	Ethanol	0.03674	0.03492	0.03492	0.005	-4.96401	30.00000	Aver	
13	Vinyl Bromide	0.09511	0.09373	0.09373	0.010	-1.45035	30.00000	Aver	
14	Isopentane	10.00000	9.30323	0.09380	0.010	-6.96765	30.00000	Line	
15	Freon 123	10.00000	8.93867	0.09451	0.010	-10.61327	30.00000	Line	
16	Trichlorofluoromethane	0.27416	0.26387	0.26387	0.010	-3.75136	30.00000	Aver	
17	Acrolein	25.00000	23.22045	0.03451	0.010	-7.11818	30.00000	Quad	
18	Acetone	0.15867	0.13778	0.13778	0.010	-13.16364	30.00000	Aver	
19	Isopropyl Alcohol	0.16182	0.15644	0.15644	0.010	-3.32425	30.00000	Aver	
20	1,1-Dichloroethene	0.15945	0.15337	0.15337	0.010	-3.81029	30.00000	Aver	
21	Acrylonitrile	0.07332	0.07200	0.07200	0.010	-1.79915	30.00000	Aver	
22	Freon 113	0.20703	0.20434	0.20434	0.010	-1.29904	30.00000	Aver	
23	Methyl Acetate	0.24157	0.23391	0.23391	0.010	-3.17159	30.00000	Aver	
24	Tert Butyl Alcohol (TBA)	0.20802	0.21355	0.21355	0.010	2.66011	30.00000	Aver	
25	Methylene chloride	0.11199	0.10135	0.10135	0.010	-9.50259	30.00000	Aver	
26	Allyl Chloride	25.00000	24.68226	0.03853	0.010	-1.27097	30.00000	Quad	
27	Carbon Disulfide	0.21091	0.22883	0.22883	0.010	8.50026	30.00000	Aver	
28	trans-1,2-dichloroethene	0.08946	0.09414	0.09414	0.010	5.22751	30.00000	Aver	
29	Methyl Tert Butyl Ether	0.25503	0.25914	0.25914	0.010	1.61453	30.00000	Aver	
30	Vinyl Acetate	10.00000	9.53133	0.25429	0.010	-4.68669	30.00000	Quad	
31	1,1-Dichloroethane	0.17426	0.16969	0.16969	0.010	-2.62429	30.00000	Aver	
$ 32	Hexane-d14(S)	0.31815	0.28475	0.28475	0.010	-10.49978	30.00000	Aver	
33	Methyl Ethyl Ketone	10.00000	9.64336	0.04558	0.010	-3.56636	30.00000	Line	
34	n-Hexane	0.15946	0.15464	0.15464	0.010	-3.02383	30.00000	Aver	(M)
35	Di-isopropyl Ether	0.30926	0.29847	0.29847	0.010	-3.48895	30.00000	Aver	
36	Ethyl Acetate	0.20523	0.19909	0.19909	0.010	-2.99080	30.00000	Aver	
37	cis-1,2-Dichloroethene	0.09995	0.10449	0.10449	0.010	4.53911	30.00000	Aver	
38	Ethyl Tert-Butyl Ether	0.32381	0.30663	0.30663	0.010	-5.30380	30.00000	Aver	
39	Chloroform	0.20717	0.19240	0.19240	0.010	-7.12739	30.00000	Aver	
40	Tetrahydrofuran	0.11074	0.11099	0.11099	0.010	0.22572	30.00000	Aver	
41	1,1,1-Trichloroethane	0.24372	0.26105	0.26105	0.010	7.10859	30.00000	Aver	
42	1,2-Dichloroethane	0.18489	0.18893	0.18893	0.010	2.18725	30.00000	Aver	

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 07-MAR-2017 08:58
Lab File ID: 06602.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m

			CCAL	MIN		MAX	CURVE	QC
COMPOUND	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	TYPE	FLAGS
43 Benzene	0.32251	0.33989	0.33989	0.010	5.39103	30.00000	Aver	
44 Carbon tetrachloride	0.24358	0.27721	0.27721	0.010	13.80818	30.00000	Aver	
45 Cyclohexane	0.16145	0.16395	0.16395	0.010	1.55002	30.00000	Aver	
46 Tert Amyl Methyl Ether	10.00000	10.79422	0.33921	0.010	7.94223	30.00000	Line	
48 2,2,4-Trimethylpentane	0.49953	0.51084	0.51084	0.010	2.26377	30.00000	Aver	
49 Heptane	0.18021	0.18441	0.18441	0.010	2.33276	30.00000	Aver	
50 1,2-Dichloropropane	0.11682	0.12238	0.12238	0.010	4.76086	30.00000	Aver	
51 Trichloroethene	0.16802	0.18888	0.18888	0.010	12.41747	30.00000	Aver	
52 Methyl methacrylate	0.10928	0.12086	0.12086	0.010	10.59696	30.00000	Aver	
53 1,4-Dioxane	0.07535	0.08414	0.08414	0.010	11.66242	30.00000	Aver	
54 Bromodichloromethane	0.23808	0.26577	0.26577	0.010	11.63145	30.00000	Aver	
55 Methylcyclohexane	10.00000	10.73185	0.09792	0.010	7.31850	30.00000	Quad	
56 Methyl Isobutyl Ketone	0.24597	0.25719	0.25719	0.010	4.56026	30.00000	Aver	
57 cis-1,3-Dichloropropene	10.00000	10.32532	0.20728	0.010	3.25320	30.00000	Line	
58 trans-1,3-Dichloropropene	10.00000	10.59443	0.19595	0.010	5.94435	30.00000	Quad	
$ 59 Toluene-d8 (S)	0.89503	0.87760	0.87760	0.010	-1.94748	30.00000	Aver	
60 1,1,2-Trichloroethane	0.13412	0.14311	0.14311	0.010	6.70566	30.00000	Aver	
61 Toluene	0.40388	0.43825	0.43825	0.010	8.50895	30.00000	Aver	
62 Methyl Butyl Ketone	0.31584	0.35342	0.35342	0.010	11.89930	30.00000	Aver	
63 n-Octane	0.34204	0.36222	0.36222	0.010	5.89772	30.00000	Aver	
64 Dibromochloromethane	10.00000	11.19894	0.44167	0.010	11.98941	30.00000	Line	
65 1,2-Dibromoethane	0.32276	0.36252	0.36252	0.010	12.31802	30.00000	Aver	
66 Tetrachloroethene	0.34724	0.39456	0.39456	0.010	13.62722	30.00000	Aver	
68 Chlorobenzene	0.49598	0.55406	0.55406	0.010	11.71009	30.00000	Aver	
69 Ethyl Benzene	0.73550	0.84903	0.84903	0.010	15.43491	30.00000	Aver	
70 m&p-Xylene	0.57729	0.65178	0.65178	0.010	12.90378	30.00000	Aver	
71 n-Nonane	0.29775	0.34485	0.34485	0.010	15.81788	30.00000	Aver	
72 Bromoform	10.00000	11.40810	0.43131	0.010	14.08097	30.00000	Quad	
73 Styrene	10.00000	10.66413	0.51955	0.010	6.64128	30.00000	Quad	
74 o-Xylene	0.58731	0.66521	0.66521	0.010	13.26463	30.00000	Aver	
75 1,1,2,2-Tetrachloroethane	0.32362	0.37572	0.37572	0.010	16.09689	30.00000	Aver	
76 Isopropylbenzene	0.83122	0.92978	0.92978	0.010	11.85779	30.00000	Aver	
77 N-Propylbenzene	10.00000	10.96855	1.03175	0.010	9.68546	30.00000	Line	
78 4-Ethyltoluene	10.00000	10.78066	0.91887	0.010	7.80658	30.00000	Quad	
79 1,3,5-Trimethylbenzene	10.00000	11.08651	0.78114	0.010	10.86511	30.00000	Line	
80 n-Decane	10.00000	10.08991	0.25783	0.010	0.89915	30.00000	Line	
81 Tert-Butyl Benzene	0.66403	0.80369	0.80369	0.010	21.03294	30.00000	Aver	
82 1,2,4-Trimethylbenzene	0.59403	0.72252	0.72252	0.010	21.62980	30.00000	Aver	
83 1,3-Dichlorobenzene	10.00000	11.49135	0.48504	0.010	14.91352	30.00000	Line	
84 Sec- Butylbenzene	0.83200	1.00411	1.00411	0.010	20.68655	30.00000	Aver	
$ 85 1,4-dichlorobenzene-d4 (S)	0.55087	0.66951	0.66951	0.010	21.53719	30.00000	Aver	
86 Benzyl Chloride	10.00000	10.32829	0.46555	0.010	3.28285	30.00000	Quad	

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030717.b\06602.D
Report Date: 07-Mar-2017 09:25

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 07-MAR-2017 08:58
Lab File ID: 06602.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030717.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.48214	0.48214	0.010	23.89595	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	11.15245	0.88584	0.010	11.52452	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.70363	0.70363	0.010	19.97435	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.89180	0.44619	0.010	8.91798	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.94235	0.66713	0.010	9.42355	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	11.12353	0.17755	0.010	11.23533	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	10.80677	0.18416	0.010	8.06766	30.00000	Quad	
94 Naphthalene	10.00000	10.03140	0.40516	0.010	0.31403	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.20975	0.20975	0.010	20.87717	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 7.93048
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/05/2017

Lab File ID (Standard): 06402.D Time Analyzed: 09:36

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
16	24 HOUR STANDARD	1422092	5.610	975415	8.645
16	UPPER LIMIT 1990929	~~2844184~~	6.110	1365581 ~~1950830~~	9.145
16	LOWER LIMIT 853255	~~711046~~	5.110	585249 ~~487708~~	8.145
16	EPA SAMPLE NO.				
16	LCS for HBN 462594 [AIR/27839]	1422092	5.610	975415	8.645
16	BLANK for HBN 462594 [AIR/2783	1368126	5.597	883486	8.639
16	VP-NYSDEC-5_5_20170223	1262802	5.597	830523	8.642
16	VP-NYSDEC-5_5_2...(2524233DUP)	1253537	5.600	819331	8.642
16	VP-NYSDEC-5_10_20170223	1081291	5.600	725538	8.642
16	VP-NYSDEC-5_20_20170223	1180495	5.610	765836	8.642
16	VP-NYSDEC-5_30_20170223	1260991	5.636	798160	8.658
16	VP-NYSDEC-5_40_20170223	1308029	5.642	824752	8.671
16	VP-NYSDEC-5_50_20170223	1360217	5.649	819476	8.681
16	VP-9_10_20170223	1326873	5.600	866451	8.642
16	VP-9_20_20170223	1139845	5.604	771806	8.639
16	VP-9_30_20170223	1263920	5.623	824428	8.649
16	VP-9_40_20170223	1281545	5.665	821398	8.713
16	VP-9_50_20170223	1373377	5.626	880233	8.652
16	VP-9_60_20170223	1391442	5.623	889276	8.652
16	VP-105_5_20170223	1189236	5.601	811554	8.639

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/06/2017

Lab File ID (Standard): 06502.D Time Analyzed: 09:10

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
13	24 HOUR STANDARD	1346534	5.613	919501	8.645
13	UPPER LIMIT 1885148	~~2693068~~	6.113	1287301 ~~1839002~~	9.145
13	LOWER LIMIT 807920	~~673267~~	5.113	551701 ~~459750~~	8.145
13	EPA SAMPLE NO.				
13	LCS for HBN 462794 [AIR/27846]	1346534	5.613	919501	8.645
13	BLANK for HBN 462794 [AIR/2784	1359985	5.600	894111	8.642
13	VP-NYSDEC-5_20_20170223	1057299	5.597	713732	8.639
13	VP-NYSDEC-5_30_20170223	1346987	5.600	869211	8.639
13	VP-NYSDEC-5_40_20170223	1325196	5.601	848313	8.639
13	VP-NYSDEC-5_50_20170223	1321054	5.601	839913	8.639
13	VP-9_30_20170223	1314471	5.600	847945	8.642
13	VP-9_50_20170223	1320888	5.604	846651	8.642
13	VP-9_60_20170223	1304089	5.604	833233	8.639
13	VP-9_40_20170223	1299167	5.600	839874	8.642
13	VP-9_20_20170223	1287626	5.600	846484	8.642
13	IA-2(2527393DUP)	1351232	5.620	910798	8.646
13	VP-105_10_20170223	1380790	5.601	913748	8.639

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380193

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/07/2017

Lab File ID (Standard): 06602.D Time Analyzed: 08:58

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
02	24 HOUR STANDARD	1332803	5.610	904534	8.645
02	UPPER LIMIT 1865924	~~2665606~~	6.110 1266348	~~1809068~~	9.145
02	LOWER LIMIT 799682	~~666402~~	5.110 542720	~~452267~~	8.145
02	EPA SAMPLE NO.				
02	LCS for HBN 462987 [AIR/27858]	1332803	5.610	904534	8.645
02	BLANK for HBN 462987 [AIR/2785	1343118	5.600	880519	8.639

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

VOA Calibration Calculations:

Initial Calibration 4/2/2017
Instrument 10airB

Chloromethane

Analyte Concentration	Analyte Response	Internal Standard Response	Internal Standard Amount	RRF	Reported RRF
0.1	1673	1406108	10	0.1190	0.11898
0.2	3263	1283793	10	0.1271	0.12708
0.5	7549	1396320	10	0.1081	0.10813
1	15341	1428064	10	0.1074	0.10743
10	162140	1414114	10	0.1147	0.11466
20	318845	1443091	10	0.1105	0.11047
30	464037	1316191	10	0.1175	0.11752
			Average	0.1149	0.1149
			Standard Deviation	0.0070	
			RSD	0.0609	
			%RSD	6.0861	6.1

Internal standard for chloromethane is 1,4-diflourobenzene

Continuing Calibration 03/05/2017@ 9:36
Instrument 10airB

Chloromethane

Analyte Concentration	Analyte Response	Internal Standard Response	Internal Standard Amount	RRF	%D	Reported RRF	Reported %D
10	152709	1422092	10	0.1074	-6.7704366	0.10738	-6.5383

LMC-GREAT NECK
SDG 10380193

SAMPLE IDENTIFICATION	VP-NYSDEC-5_5-20170223		
COMPOUND	TRICHLOROETHENE	MW	131.388
		GAS CONSTANT	24.04
COMPOUND AREA	2559		
INTERNAL STANDARD AMOUNT (ppbv)	10		
CALIBRATION VOLUME (ppbv)	200		
DILUTION FACTOR	1.75		
INTERNAL STANDARD AREA	1262802		
AVERAGE RRF	0.16802		
SAMPLE VOLUME (ppbv)	200		

CONCENTRATION =	0.211063	ppbv	1.2
	1.2	µg/m³	

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 14, 2017

Dallas Mellott
Tetra Tech
234 Mall Boulevard
King Of Prussia, PA 19406

RE: Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Dear Dallas Mellott:
Enclosed are the analytical results for sample(s) received by the laboratory on February 28, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Jon Byk, Tetra Tech
Priscilla Merta, Tetra Tech
Joseph Samchuck, Tetra Tech

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 14, 2017

General Information:
21 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: 463555

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 2534384)
  - 1,2,4-Trichlorobenzene

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 463555

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2534384)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dibromo-3-chloropropane
  - 1,4-Dioxane (p-Dioxane)
  - Chloropentafluoroethane
- VP-102_19.5_20170226 (Lab ID: 10380372002)
  - Chloropentafluoroethane

QC Batch: 463593

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2534981)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dibromo-3-chloropropane
  - Allyl chloride
  - Carbon tetrachloride
  - Dibromochloromethane
  - Hexachloro-1,3-butadiene
- LIJ-VP-7_40_20170226 (Lab ID: 10380372018)
  - Carbon tetrachloride
- LIJ-VP-7_50_20170226 (Lab ID: 10380372019)
  - Carbon tetrachloride
- VP-103_30_20170226 (Lab ID: 10380372010)
  - Carbon tetrachloride
- VP-103_40_20170226 (Lab ID: 10380372011)
  - Carbon tetrachloride

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 14, 2017

QC Batch: 463593

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- VP-103_50_20170226 (Lab ID: 10380372012)
  - Carbon tetrachloride
- VP-103_61.5_20170226 (Lab ID: 10380372013)
  - Carbon tetrachloride
- VP-103_74.5_20170226 (Lab ID: 10380372014)
  - Carbon tetrachloride

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 2534980)
  - Chloropentafluoroethane
- LCS (Lab ID: 2534981)
  - Chloropentafluoroethane
- LIJ-VP-7_10_20170226 (Lab ID: 10380372016)
  - Chloropentafluoroethane
- LIJ-VP-7_20_20170226 (Lab ID: 10380372017)
  - Chloropentafluoroethane
- LIJ-VP-7_40_20170226 (Lab ID: 10380372018)
  - Chloropentafluoroethane
- LIJ-VP-7_50_20170226 (Lab ID: 10380372019)
  - Chloropentafluoroethane
- LIJ-VP-7_50_20170226DUP (Lab ID: 10380372020)
  - Chloropentafluoroethane
- LIJ-VP-7_5_20170226 (Lab ID: 10380372015)
  - Chloropentafluoroethane
- VP-102_73.5_20170226DUP (Lab ID: 10380372021)
  - Chloropentafluoroethane
- VP-103_20_20170226 (Lab ID: 10380372009)
  - Chloropentafluoroethane
- VP-103_30_20170226 (Lab ID: 10380372010)
  - Chloropentafluoroethane
- VP-103_40_20170226 (Lab ID: 10380372011)
  - Chloropentafluoroethane
- VP-103_50_20170226 (Lab ID: 10380372012)
  - Chloropentafluoroethane
- VP-103_61.5_20170226 (Lab ID: 10380372013)
  - Chloropentafluoroethane
- VP-103_74.5_20170226 (Lab ID: 10380372014)
  - Chloropentafluoroethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 14, 2017

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 463555

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- LCS (Lab ID: 2534384)
  - 1,2,4-Trichlorobenzene
  - 2-Propanol

QC Batch: 463593

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- LCS (Lab ID: 2534981)
  - 1,2,4-Trichlorobenzene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 463555

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
- LCS (Lab ID: 2534384)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

QC Batch: 463593

1M: The internal standard recovery associated with this result exceeds the lower control limit. .
- LIJ-VP-7_50_20170226 (Lab ID: 10380372019)
  - Tetrachloroethene

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
- LCS (Lab ID: 2534981)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.
- LIJ-VP-7_20_20170226 (Lab ID: 10380372017)
  - Trichloroethene
- LIJ-VP-7_40_20170226 (Lab ID: 10380372018)
  - cis-1,2-Dichloroethene

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 14, 2017

Analyte Comments:

QC Batch: 463593

A3: The sample was analyzed by serial dilution.
- LIJ-VP-7_50_20170226 (Lab ID: 10380372019)
  - cis-1,2-Dichloroethene

C0: Result confirmed by second analysis.
- LIJ-VP-7_50_20170226 (Lab ID: 10380372019)
  - Tetrachloroethene

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

10380392

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26388

Page: 1 of 2

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE, NJ 08889
Email To: DALLAS.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELLOTT
Copy To:
Purchase Order No.:
Project Name: LML GREAT NECK
Project Number: 117-05076.44

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☑ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

*Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	*Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-102_5.5_20170226	6VL		2/26/17	1010	2/26/17	1347	-30	-5	0196	0033							X			001
2	VP-102_19.5_20170226				1010		1344	-28	-5	6822	0426							X			002
3	VP-102_51.5_20170226				1010		1345	-29	-5	9311	0429							X			003
4	VP-102_57.5_20170226				1010		1350	-30	-9	1046	0598							X			004
5	VP-102_61.5_20170226				1010		1344	-29	-5	4299	0428							X			005
6	VP-102_73.5_20170226				1010		1400	-29	-7.5	2703	0597							X			006
7	VP-103_5_20170226				0821		1209	-30	-8	6220	0129							X			007
8	VP-103_10_20170226				0821		1210	-30	-8	1031	0049							X			008
9	VP-103_20_20170226				0821		1154	-29	-8	1258	0600							X			009
10	VP-103_30_20170226				0821		1220	-30	-5	1267	0530							X			010
11	VP-103_70_20170226				0822		1209	-30	-8	1069	0044							X			011
12	VP-103_50_20170226	↓		↓	0822	↓	1155	-29	-8	2171	0376							X			012

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	2/27/17	1030		2/27/17	1030
	2/27/17	1530		22817	0945

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dallas Mellott, Dan Blackwood, A. Kelly
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 2/26/17

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

10380372

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26390

Page: 2 of 2

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104C
WHITEHOUSE, NJ 08889
Email To: DAVID.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DAVID MELLOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-0507644

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State:

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level: II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-103_01.5_20170226	6LC		2/26/17	0822	2/26/17	1226	-30	-8	570	0040							X			013
2	VP-103_74.5_20170226				0822		1208	-30	-8	1750	0082							X			014
3	LIS-VP-7_5_20170226				0956		1336	-30	-9	847	0041							X			015
4	LIS-VP-7_10_20170226				0957		1336	-30	-8	1515	0103							X			016
5	LIS-VP-7_20_20170226				0955		1400	-30	-9	1288	0264							X			017
6	LIS-VP-7_40_20170226				0958		1337	-30	-8	859	0037							X			018
7	LIS-VP-7_50_20170226				0956		1335	-30	-8	1051	0145							X			019
8	LIS-VP-7_5_20170226DUP				0956		1336	-28.5	-7	1261	0036							X			020
9	VP-102_73.5_20170226DUP				1010		1400	-30	-9.5	1740	0051							X			021
10																					022
11																					
12																					

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	2/27/17	1030		2/27/17	1030
	2/27/17	1530	Pace	2/28/17	0945

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Bolt, D. Brancaccio, A. Kelly
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 2/26/17

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: TT - NJ

Project #: WO# : 10380372

10380372

Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 7857 4106 2418 -master

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** 0 **Thermom. Used:** ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 2/28/17

Type of ice Received ☐ Blue ☐ Wet ☒ None

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
UNUSED	2816	0025			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Nathan Roberg **Date:** 2/28/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
Alaska Certification UST-107
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1M	The internal standard recovery associated with this result exceeds the lower control limit. .
2M	This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
A3	The sample was analyzed by serial dilution.
C0	Result confirmed by second analysis.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10380372001	**VP-102_8.5_20170226**	Air	02/26/17 13:47	02/28/17 09:45
10380372002	**VP-102_19.5_20170226**	Air	02/26/17 13:44	02/28/17 09:45
10380372003	**VP-102_51.5_20170226**	Air	02/26/17 13:45	02/28/17 09:45
10380372004	**VP-102_57.5_20170226**	Air	02/26/17 13:50	02/28/17 09:45
10380372005	**VP-102_61.5_20170226**	Air	02/26/17 13:44	02/28/17 09:45
10380372006	**VP-102_73.5_20170226**	Air	02/26/17 14:00	02/28/17 09:45
10380372007	**VP-103_5_20170226**	Air	02/26/17 12:09	02/28/17 09:45
10380372008	**VP-103_10_20170226**	Air	02/26/17 12:10	02/28/17 09:45
10380372009	**VP-103_20_20170226**	Air	02/26/17 11:54	02/28/17 09:45
10380372010	**VP-103_30_20170226**	Air	02/26/17 12:20	02/28/17 09:45
10380372011	**VP-103_40_20170226**	Air	02/26/17 12:09	02/28/17 09:45
10380372012	**VP-103_50_20170226**	Air	02/26/17 11:55	02/28/17 09:45
10380372013	**VP-103_61.5_20170226**	Air	02/26/17 12:26	02/28/17 09:45
10380372014	**VP-103_74.5_20170226**	Air	02/26/17 12:08	02/28/17 09:45
10380372015	**LIJ-VP-7_5_20170226**	Air	02/26/17 13:36	02/28/17 09:45
10380372016	**LIJ-VP-7_10_20170226**	Air	02/26/17 13:36	02/28/17 09:45
10380372017	**LIJ-VP-7_20_20170226**	Air	02/26/17 14:00	02/28/17 09:45
10380372018	**LIJ-VP-7_40_20170226**	Air	02/26/17 13:37	02/28/17 09:45
10380372019	**LIJ-VP-7_50_20170226**	Air	02/26/17 13:35	02/28/17 09:45
10380372020	**LIJ-VP-7_50_20170226DUP**	Air	02/26/17 13:36	02/28/17 09:45
10380372021	**VP-102_73.5_20170226DUP**	Air	02/26/17 14:00	02/28/17 09:45
10380372022	**Unused Can#2816**	Air		02/28/17 09:45

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10380372001	VP-102_8.5_20170226	TO-15	EMC	62
10380372002	VP-102_19.5_20170226	TO-15	DR1	62
10380372003	VP-102_51.5_20170226	TO-15	DR1	62
10380372004	VP-102_57.5_20170226	TO-15	DR1	62
10380372005	VP-102_61.5_20170226	TO-15	DR1	62
10380372006	VP-102_73.5_20170226	TO-15	DR1	62
10380372007	VP-103_5_20170226	TO-15	DR1	62
10380372008	VP-103_10_20170226	TO-15	DR1	62
10380372009	VP-103_20_20170226	TO-15	DR1	62
10380372010	VP-103_30_20170226	TO-15	DR1, EMC	62
10380372011	VP-103_40_20170226	TO-15	DR1, EMC	62
10380372012	VP-103_50_20170226	TO-15	DR1, EMC	62
10380372013	VP-103_61.5_20170226	TO-15	DR1, EMC	62
10380372014	VP-103_74.5_20170226	TO-15	DR1, EMC	62
10380372015	LIJ-VP-7_5_20170226	TO-15	DR1, EMC	62
10380372016	LIJ-VP-7_10_20170226	TO-15	DR1	62
10380372017	LIJ-VP-7_20_20170226	TO-15	DR1, EMC	62
10380372018	LIJ-VP-7_40_20170226	TO-15	DR1, EMC	62
10380372019	LIJ-VP-7_50_20170226	TO-15	DR1, EMC	62
10380372020	LIJ-VP-7_50_20170226DUP	TO-15	DR1, EMC	62
10380372021	VP-102_73.5_20170226DUP	TO-15	DR1	62

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 463555 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 06904L.D Lab Sample ID: 2534383
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 16:11
Instrument ID: 10AIRD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-102_8.5_20170226	10380372001	06905.D	16:54
02	VP-102_19.5_20170226	10380372002	06906.D	17:22
03	VP-102_51.5_20170226	10380372003	06908.D	18:21
04	VP-102_57.5_20170226	10380372004	06909.D	18:48
05	VP-102_61.5_20170226	10380372005	06911.D	19:44
06	VP-102_73.5_20170226	10380372006	06912.D	20:12
07	VP-103_5_20170226	10380372007	06913.D	20:42
08	VP-103_10_20170226	10380372008	06914.D	21:10

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 463593 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 07006L.D Lab Sample ID: 2534980
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 13:09
Instrument ID: 10AIRD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-103_30_20170226	10380372010	07011.D	16:24
02	VP-103_20_20170226	10380372009	07013.D	17:23
03	VP-103_40_20170226	10380372011	07014.D	17:51
04	VP-103_50_20170226	10380372012	07015.D	18:19
05	VP-103_61.5_20170226	10380372013	07016.D	18:50
06	VP-103_74.5_20170226	10380372014	07022.D	21:23
07	LIJ-VP-7_5_20170226	10380372015	07023.D	21:54
08	LIJ-VP-7_10_20170226	10380372016	07024.D	22:22
09	LIJ-VP-7_20_20170226	10380372017	07025.D	22:49
10	LIJ-VP-7_40_20170226	10380372018	07026.D	23:18
11	LIJ-VP-7_50_20170226	10380372019	07027.D	23:46
12	LIJ-VP-7_50_20170226DUP	10380372020	07028.D	00:14
13	VP-102_73.5_20170226DUP	10380372021	07029.D	00:43

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 06814.D BFB Injection Date: 03/09/2017
Instrument ID: 10AIRD BFB Injection Time: 16:21
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.69	
75	30.00 - 66.00% of mass 95	50.93	
96	5.00 - 9.00% of mass 95	6.95	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	109.15	
175	4.00 - 9.00% of mass 174	9.25	(8.47)
176	93.00 - 101.00% of mass 174	104.38	(95.63)
177	5.00 - 9.00% of mass 176	7.72	(7.40)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL2	CAL2	06816.D	03/09/2017	19:29
2	CAL3	CAL3	06817.D	03/09/2017	20:31
3	CAL4	CAL4	06818.D	03/09/2017	21:36
4	CAL5	CAL5	06819.D	03/09/2017	22:41
5	CAL6	CAL6	06820.D	03/09/2017	23:55
6	CAL7	CAL7	06821.D	03/10/2017	01:09
7	CAL1	CAL1	06824.D	03/10/2017	09:35
8	ICV	ICV	06826.D	03/10/2017	11:47

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 06901.D BFB Injection Date: 03/10/2017
Instrument ID: 10AIRD BFB Injection Time: 14:22
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.22	
75	30.00 - 66.00% of mass 95	48.99	
96	5.00 - 9.00% of mass 95	7.00	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	110.34	
175	4.00 - 9.00% of mass 174	8.91	(8.08)
176	93.00 - 101.00% of mass 174	105.37	(95.50)
177	5.00 - 9.00% of mass 176	7.38	(7.00)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06902.D	03/10/2017	14:46
2	LCS for HBN 463555 [AIR/27876]	2534384	06902L.D	03/10/2017	14:46
3	BLANK for HBN 463555 [AIR/2787	2534383	06904L.D	03/10/2017	16:11
4	VP-102_8.5_20170226	10380372001	06905.D	03/10/2017	16:54
5	VP-102_19.5_20170226	10380372002	06906.D	03/10/2017	17:22
6	VP-102_19.5_201...(2525908DUP)	2534983-DUP	06907.D	03/10/2017	17:50
7	VP-102_51.5_20170226	10380372003	06908.D	03/10/2017	18:21
8	VP-102_57.5_20170226	10380372004	06909.D	03/10/2017	18:48
9	VP-102_61.5_20170226	10380372005	06911.D	03/10/2017	19:44
10	VP-102_73.5_20170226	10380372006	06912.D	03/10/2017	20:12
11	VP-103_5_20170226	10380372007	06913.D	03/10/2017	20:42
12	VP-103_10_20170226	10380372008	06914.D	03/10/2017	21:10

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 07002BFB.D BFB Injection Date: 03/11/2017
Instrument ID: 10AIRD BFB Injection Time: 10:37
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	28.58	
75	30.00 - 66.00% of mass 95	51.71	
96	5.00 - 9.00% of mass 95	7.09	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	103.35	
175	4.00 - 9.00% of mass 174	8.72	(8.43)
176	93.00 - 101.00% of mass 174	98.39	(95.20)
177	5.00 - 9.00% of mass 176	7.40	(7.52)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 463593 [AIR/27878]	2534981	07002L.D	03/11/2017	10:37
2	CCV	CCV	07002.D	03/11/2017	10:37
3	CERT	CERT	07005.D	03/11/2017	12:24
4	BLANK for HBN 463593 [AIR/2787	2534980	07006L.D	03/11/2017	13:09
5	VP-103_5_20170226	10380372007	07007.D	03/11/2017	14:44
6	VP-102_51.5_20170226	10380372003	07008.D	03/11/2017	15:07
7	VP-102_57.5_20170226	10380372004	07009.D	03/11/2017	15:31
8	VP-102_61.5_20170226	10380372005	07010.D	03/11/2017	15:54
9	VP-103_30_20170226	10380372010	07011.D	03/11/2017	16:24
10	VP-103_20_20170226	10380372009	07013.D	03/11/2017	17:23
11	VP-103_40_20170226	10380372011	07014.D	03/11/2017	17:51
12	VP-103_50_20170226	10380372012	07015.D	03/11/2017	18:19
13	VP-103_61.5_20170226	10380372013	07016.D	03/11/2017	18:50
14	VP-103_74.5_20170226	10380372014	07022.D	03/11/2017	21:23
15	LIJ-VP-7_5_20170226	10380372015	07023.D	03/11/2017	21:54
16	LIJ-VP-7_10_20170226	10380372016	07024.D	03/11/2017	22:22
17	LIJ-VP-7_20_20170226	10380372017	07025.D	03/11/2017	22:49
18	LIJ-VP-7_40_20170226	10380372018	07026.D	03/11/2017	23:18
19	LIJ-VP-7_50_20170226	10380372019	07027.D	03/11/2017	23:46
20	LIJ-VP-7_50_20170226DUP	10380372020	07028.D	03/12/2017	00:14
21	VP-102_73.5_20170226DUP	10380372021	07029.D	03/12/2017	00:43
22	VP-102_8.5_20170226	10380372001	07030.D	03/12/2017	01:16

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 07101BFB.D BFB Injection Date: 03/12/2017
Instrument ID: 10AIRD BFB Injection Time: 09:41
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.91	
75	30.00 - 66.00% of mass 95	50.04	
96	5.00 - 9.00% of mass 95	6.73	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	113.23	
175	4.00 - 9.00% of mass 174	9.31	(8.22)
176	93.00 - 101.00% of mass 174	110.42	(97.52)
177	5.00 - 9.00% of mass 176	7.68	(6.96)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	07102.D	03/12/2017	10:04
2	IC	IC	07105.D	03/12/2017	12:32
3	LIJ-VP-7_50_20170226DUP	10380372020	07108.D	03/12/2017	14:10
4	VP-103_50_20170226	10380372012	07109.D	03/12/2017	14:34
5	VP-103_40_20170226	10380372011	07110.D	03/12/2017	14:58
6	VP-103_30_20170226	10380372010	07111.D	03/12/2017	15:21
7	LIJ-VP-7_5_20170226	10380372015	07112.D	03/12/2017	15:44
8	VP-103_74.5_20170226	10380372014	07114.D	03/12/2017	16:30
9	LIJ-VP-7_20_20170226	10380372017	07115.D	03/12/2017	16:52
10	LIJ-VP-7_50_20170226	10380372019	07117.D	03/12/2017	17:38
11	LIJ-VP-7_40_20170226	10380372018	07118.D	03/12/2017	18:01

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 07201.D BFB Injection Date: 03/13/2017
Instrument ID: 10AIRD BFB Injection Time: 07:38
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.06	
75	30.00 - 66.00% of mass 95	50.10	
96	5.00 - 9.00% of mass 95	6.77	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	114.14	
175	4.00 - 9.00% of mass 174	9.34	(8.18)
176	93.00 - 101.00% of mass 174	110.53	(96.84)
177	5.00 - 9.00% of mass 176	7.66	(6.93)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	07205.D	03/13/2017	09:58
2	CAL2	CAL2	07206.D	03/13/2017	10:21
3	CAL3	CAL3	07207.D	03/13/2017	10:45
4	CAL4	CAL4	07208.D	03/13/2017	11:11
5	CAL5	CAL5	07209.D	03/13/2017	11:34
6	CAL6	CAL6	07210.D	03/13/2017	11:59
7	CAL7	CAL7	07211.D	03/13/2017	12:24
8	ICV	ICV	07213.D	03/13/2017	13:11
9	IC	IC	07215.D	03/13/2017	14:15
10	VP-103_61.5_20170226	10380372013	07220.D	03/13/2017	17:03

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/10/2017

Lab File ID (Standard): 06902.D Time Analyzed: 14:46

Instrument ID: 10AIRD Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
02	24 HOUR STANDARD	3611878	4.248	3035016	7.033
02	UPPER LIMIT	7223756	4.748	6070032	7.533
02	LOWER LIMIT	1805939	3.748	1517508	6.533
02	EPA SAMPLE NO.				
02	LCS for HBN 463555 [AIR/27876]	3611878	4.248	3035016	7.033
02	BLANK for HBN 463555 [AIR/2787	3558981	4.242	2875542	7.027

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/11/2017

Lab File ID (Standard): 07002.D Time Analyzed: 10:37

Instrument ID: 10AIRD Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
15	24 HOUR STANDARD	3596167	4.267	2947178	7.043
15	UPPER LIMIT	7192334	4.767	5894356	7.543
15	LOWER LIMIT	1798084	3.767	1473589	6.543
15	EPA SAMPLE NO.				
15	BLANK for HBN 463593 [AIR/2787	3411782	4.242	2674794	7.027
15	VP-103_30_20170226	3146304	4.245	2366358	7.027
15	VP-103_20_20170226	3236191	4.242	2413807	7.027
15	VP-103_40_20170226	3190258	4.245	2420048	7.030
15	VP-103_50_20170226	3207634	4.245	2391849	7.030
15	VP-103_61.5_20170226	2991050	4.245	2130890	7.030
15	VP-103_74.5_20170226	2977542	4.242	2109062	7.027
15	LIJ-VP-7_5_20170226	2872336	4.242	1983703	7.027
15	LIJ-VP-7_10_20170226	3151082	4.245	2334805	7.030
15	LIJ-VP-7_20_20170226	3279655	4.248	2419694	7.034
15	LIJ-VP-7_40_20170226	3402989	4.264	2297342	7.043
15	LIJ-VP-7_50_20170226	3249733	4.248	2369908	7.033
15	LIJ-VP-7_50_20170226DUP	3035456	4.239	2225424	7.027
15	VP-102_73.5_20170226DUP	3061704	4.238	2218298	7.027
15	VP-102_8.5_20170226	2911380	4.242	2114819	7.027

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/12/2017

Lab File ID (Standard): 07102.D Time Analyzed: 10:04

Instrument ID: 10AIRD Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
09	24 HOUR STANDARD	3220013	4.251	2478835	7.033
09	UPPER LIMIT	6440026	4.751	4957670	7.533
09	LOWER LIMIT	1610006	3.751	1239418	6.533
09	EPA SAMPLE NO.				
09	LIJ-VP-7_50_20170226DUP	3039952	4.238	2237836	7.027
09	VP-103_50_20170226	2991512	4.238	2177985	7.027
09	VP-103_40_20170226	2933653	4.238	2128228	7.027
09	VP-103_30_20170226	3082569	4.239	2313635	7.027
09	LIJ-VP-7_5_20170226	2829098	4.239	1912229	7.024
09	VP-103_74.5_20170226	2771287	4.235	1888417	7.024
09	LIJ-VP-7_20_20170226	3128315	4.238	2374143	7.027
09	LIJ-VP-7_50_20170226	2769867	4.239	1909533	7.027
09	LIJ-VP-7_40_20170226	3035779	4.238	2236622	7.027

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_8.5_20170226 **Lab ID: 10380372001** Collected: 02/26/17 13:47 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**216**	ug/m3	10.6	1.5	1.75		03/10/17 16:54	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/10/17 16:54	107-05-1	
Benzene	**3.4**	ug/m3	0.57	0.21	1.75		03/10/17 16:54	71-43-2	
Bromodichloromethane	**0.34U**	ug/m3	2.4	0.34	1.75		03/10/17 16:54	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/10/17 16:54	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/10/17 16:54	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/10/17 16:54	106-99-0	
2-Butanone (MEK)	**2.3J**	ug/m3	5.2	0.40	1.75		03/10/17 16:54	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/10/17 16:54	75-15-0	
Carbon tetrachloride	**0.34U**	ug/m3	1.1	0.34	1.75		03/10/17 16:54	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/10/17 16:54	108-90-7	
Chlorodifluoromethane	**15.5**	ug/m3	1.3	0.48	1.75		03/10/17 16:54	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/10/17 16:54	75-00-3	
Chloroform	**0.33U**	ug/m3	0.87	0.33	1.75		03/10/17 16:54	67-66-3	
Chloromethane	**1.0**	ug/m3	0.74	0.19	1.75		03/10/17 16:54	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 16:54	76-15-3	
Cyclohexane	**1.2J**	ug/m3	1.2	0.55	1.75		03/10/17 16:54	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/10/17 16:54	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/10/17 16:54	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/10/17 16:54	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/10/17 16:54	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/10/17 16:54	541-73-1	
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/10/17 16:54	106-46-7	
Dichlorodifluoromethane	**3.5**	ug/m3	1.8	0.84	1.75		03/10/17 16:54	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/10/17 16:54	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/10/17 16:54	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 16:54	75-35-4	
cis-1,2-Dichloroethene	**0.43U**	ug/m3	1.4	0.43	1.75		03/10/17 16:54	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/10/17 16:54	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/10/17 16:54	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/10/17 16:54	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/10/17 16:54	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/10/17 16:54	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 16:54	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/10/17 16:54	123-91-1	
Ethylbenzene	**0.74U**	ug/m3	1.5	0.74	1.75		03/10/17 16:54	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/10/17 16:54	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/10/17 16:54	87-68-3	
n-Hexane	**138**	ug/m3	1.3	0.62	1.75		03/10/17 16:54	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/10/17 16:54	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/10/17 16:54	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/10/17 16:54	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 16:54	108-87-2	
Methylene Chloride	**861**	ug/m3	6.2	0.95	1.75		03/10/17 16:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/10/17 16:54	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/10/17 16:54	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.d
Report Date: 13-Mar-2017 15:46

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06905.d
Lab Smp Id: 10380372001
Inj Date : 10-MAR-2017 16:54
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 5
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.117	2.114	(0.499)	4021	0.23403	0.410(Q)	
3	Chlorodifluoromethane	67	2.126	2.123	(0.501)	20946	2.45897	4.30(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.152	2.149	(0.507)	31061	0.40041	0.701	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	2.223	2.216	(0.524)	9954	0.27361	0.479	
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.502	2.499	(0.590)	27215	5.02400	8.79	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	2.544	2.544	(0.600)	25263	0.74735	1.31	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.601	2.605	(0.613)	16368	0.20170	0.353	
17	Acrolein	56	2.611	2.608	(0.616)	1444	0.55980	0.980	
18	Acetone	43	2.637	2.637	(0.622)	1897537	51.1911	89.6(M)	
19	Isopropyl Alcohol	45	2.675	2.672	(0.631)	63784	2.32064	4.06(QM)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.d
Report Date: 13-Mar-2017 15:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						(D)
	25 Methylene chloride	49	2.868	2.871	(0.676)	3197169	139.365	244	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	3.214	3.192	(0.758)	77044	1.15187	2.02(H)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.269	(0.771)	1926453	10.2846	10.3	
	33 Methyl Ethyl Ketone	72	3.349	3.336	(0.790)	4968	0.44285	0.775(QM)	
	34 n-Hexane	57	3.349	3.349	(0.790)	893397	22.0265	38.5(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	4.100	4.106	(0.967)	46000	0.59244	1.04	
	45 Carbon tetrachloride	117	Compound Not Detected.						(D)
	44 Cyclohexane	56	4.119	4.119	(0.971)	7844	0.19569	0.342(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	3528356	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						(D)
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.566	(1.311)	3403632	9.62707	9.63	
	60 Toluene	91	5.631	5.634	(1.328)	51103	0.48994	0.857	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						(D)
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	7.026	7.033	(1.000)	2721296	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 Bromoform	173	Compound Not Detected.						(D)
	72 n-Nonane	43	7.851	7.861	(1.117)	103437	1.66006	2.91	
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.d
Report Date: 13-Mar-2017 15:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.197	(1.451)	1636670	9.81627	9.82	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						(D)
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						(D)
94	Naphthalene	128	Compound Not Detected.						(D)
95	Hexachlorobutadiene	225	Compound Not Detected.						(D)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.d
Report Date: 13-Mar-2017 15:46

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06905.d
Lab Smp Id: 10380372001
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 10-MAR-2017
Calibration Time: 14:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

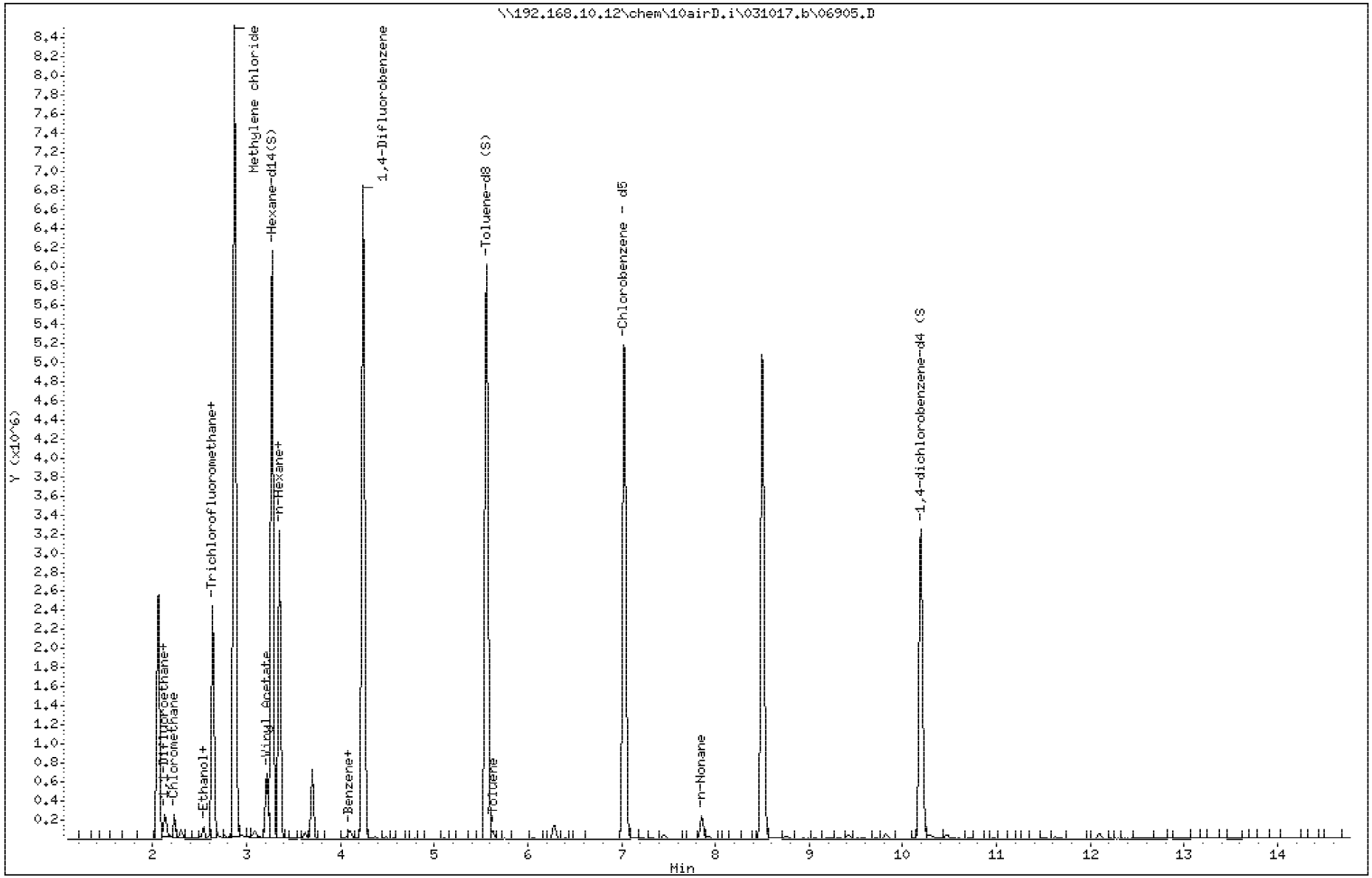
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3528356	-6.84
67 Chlorobenzene - d	3280875	1968525	4593225	2721296	-17.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D
Date : 10-MAR-2017 16:54
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

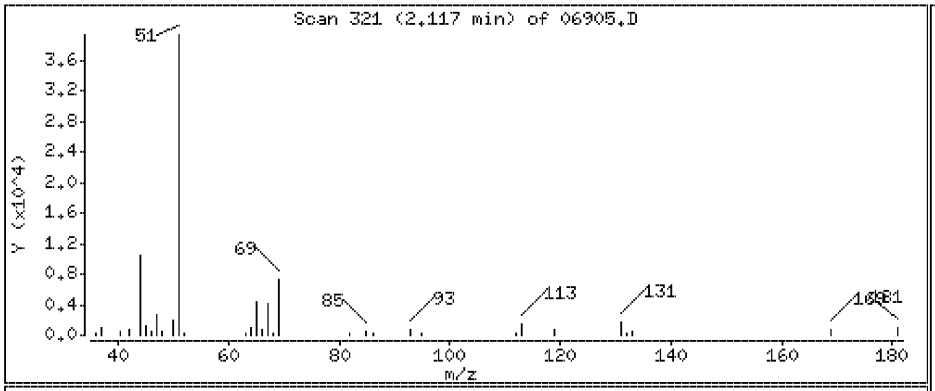
Operator: EMC

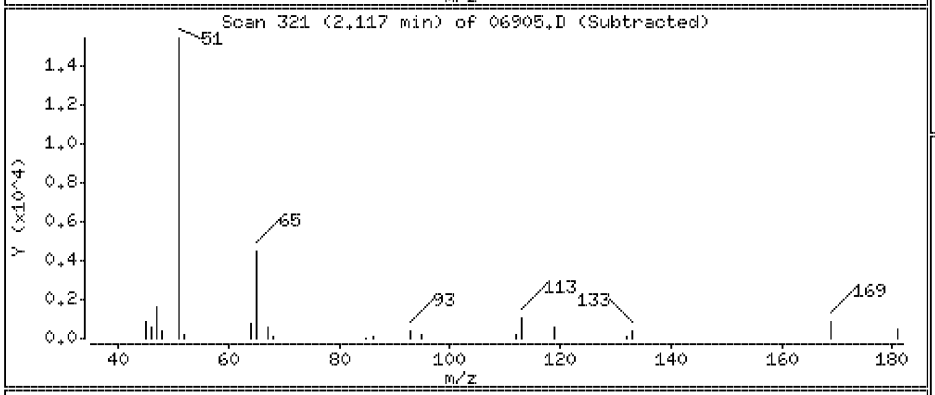
Column phase: J&W DB-5

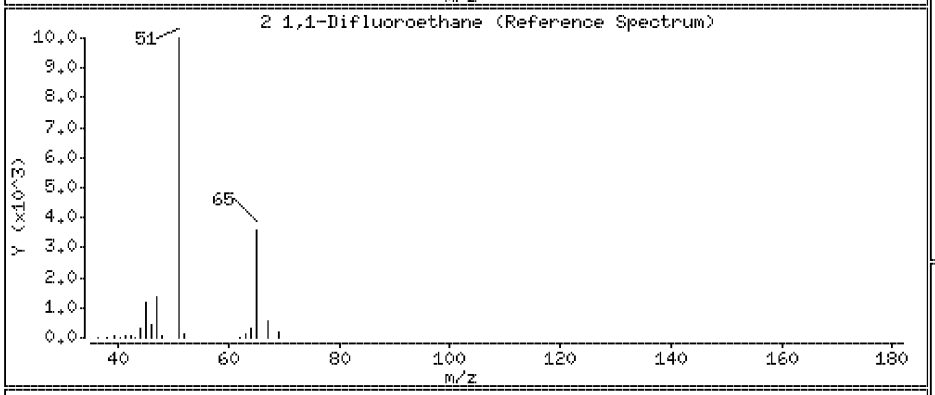
Column diameter: 0.32

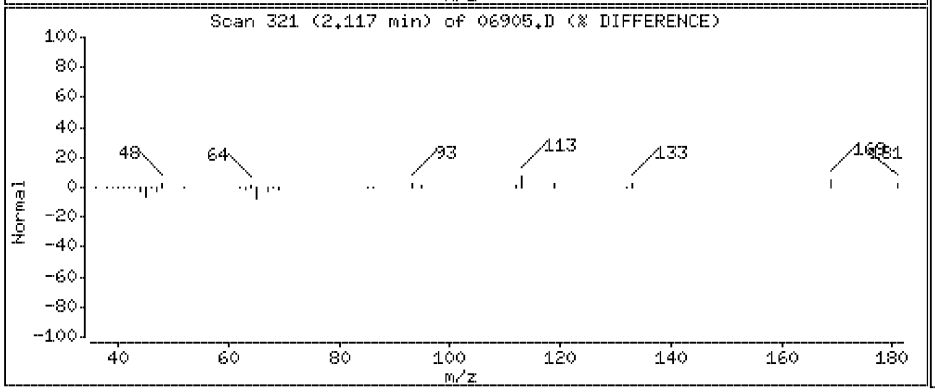
2 1,1-Difluoroethane

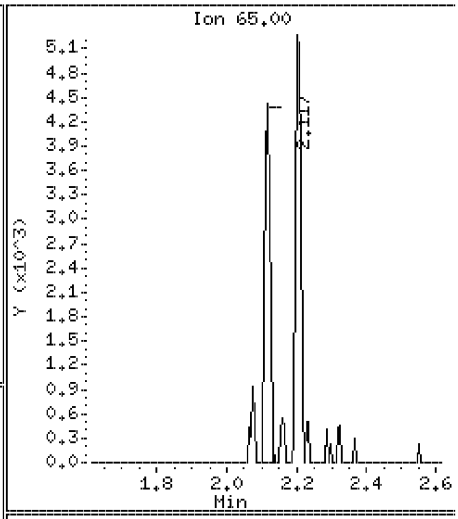
Concentration: 0.410 ppbv

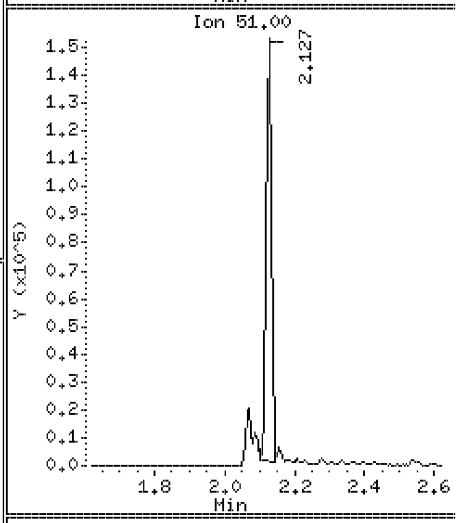


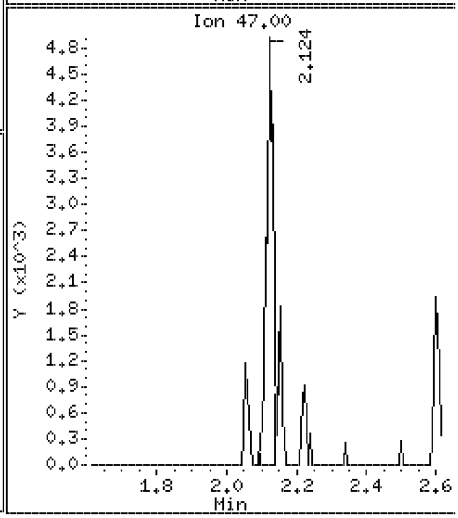












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

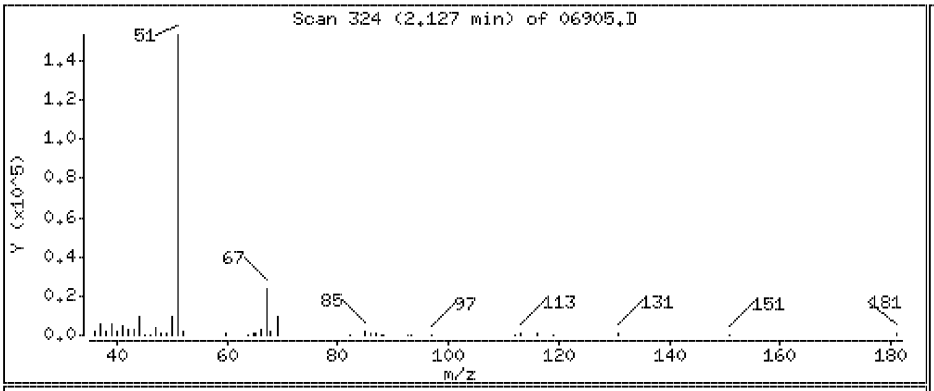
Operator: EMC

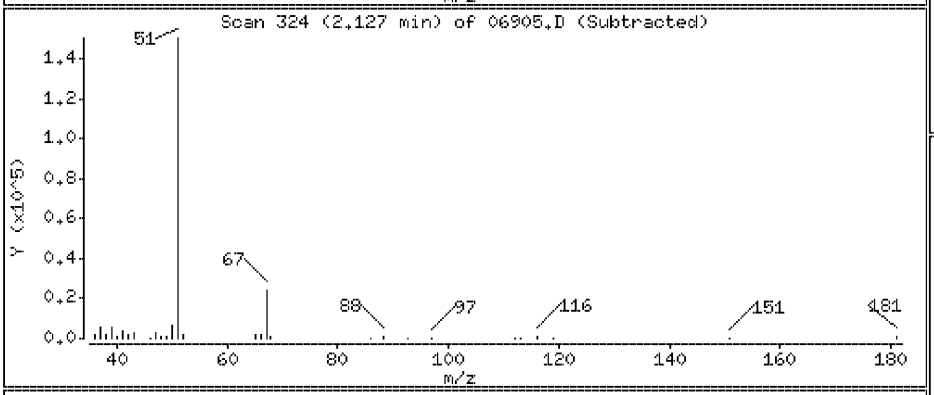
Column phase: J&W DB-5

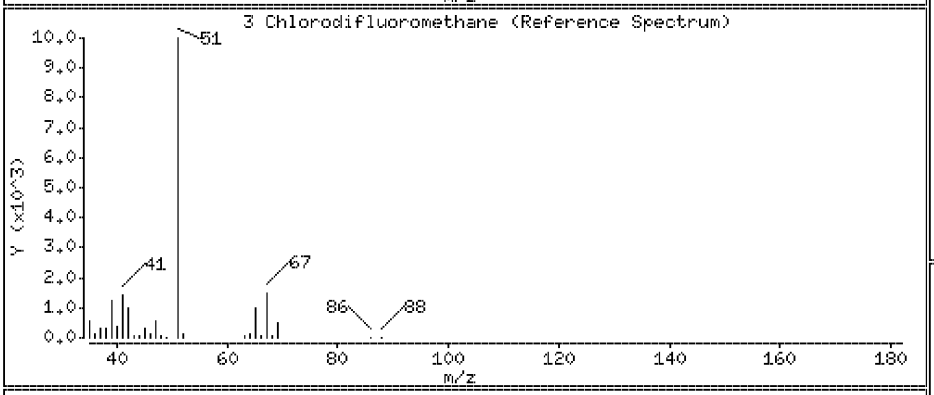
Column diameter: 0.32

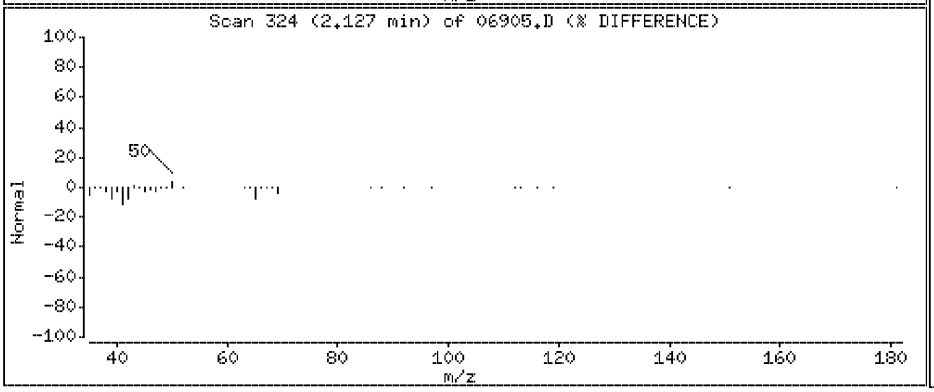
3 Chlorodifluoromethane

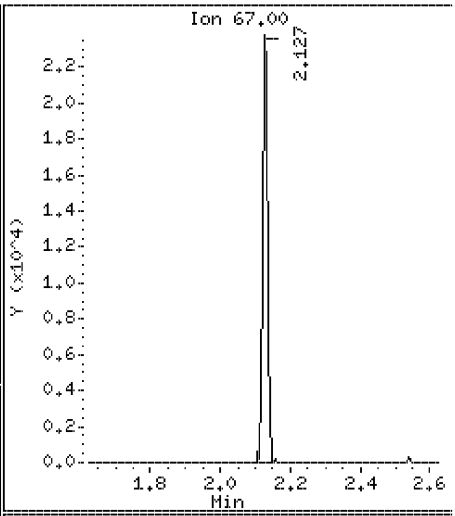
Concentration: 4.30 ppbv

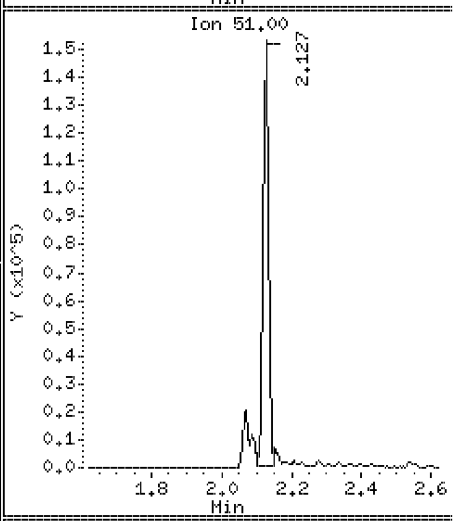


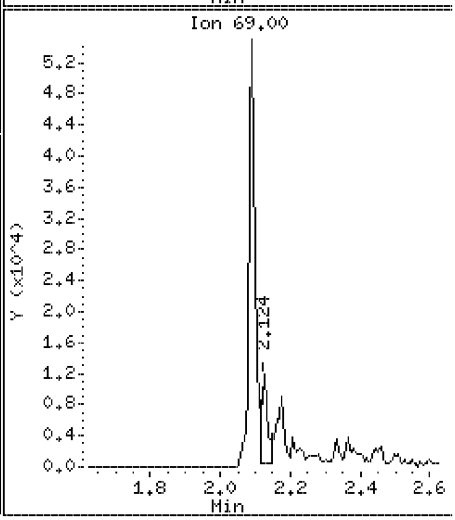












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

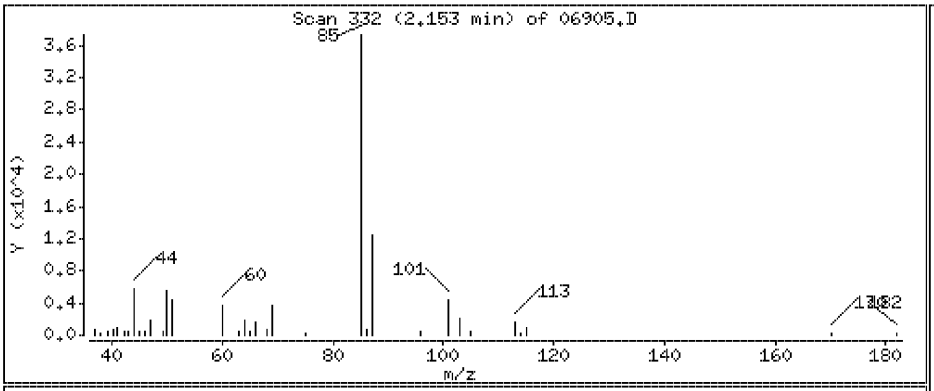
Operator: EMC

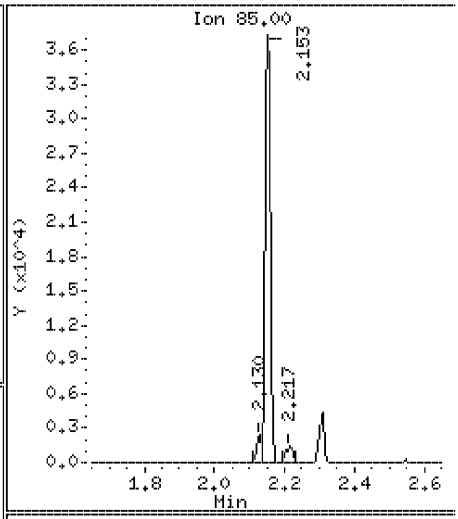
Column phase: J&W DB-5

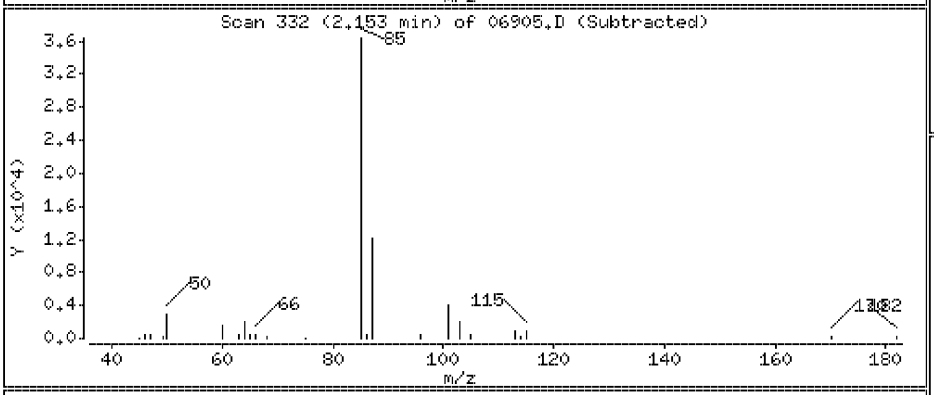
Column diameter: 0.32

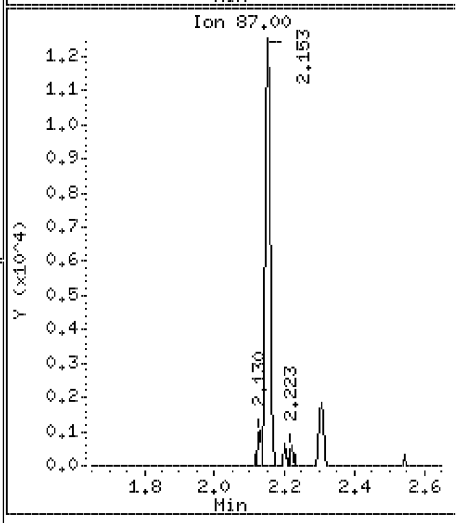
5 Dichlorodifluoromethane

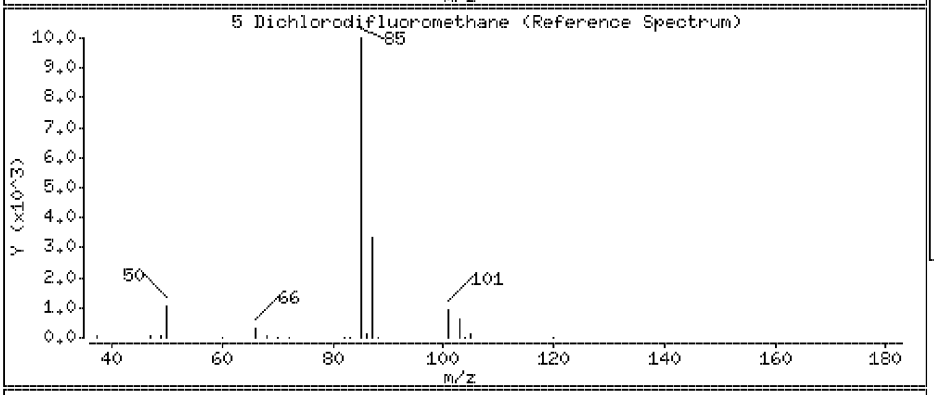
Concentration: 0.701 ppbv

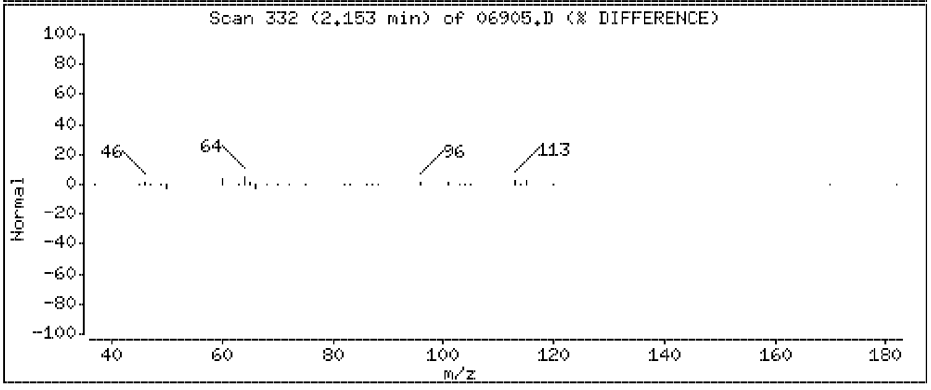












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

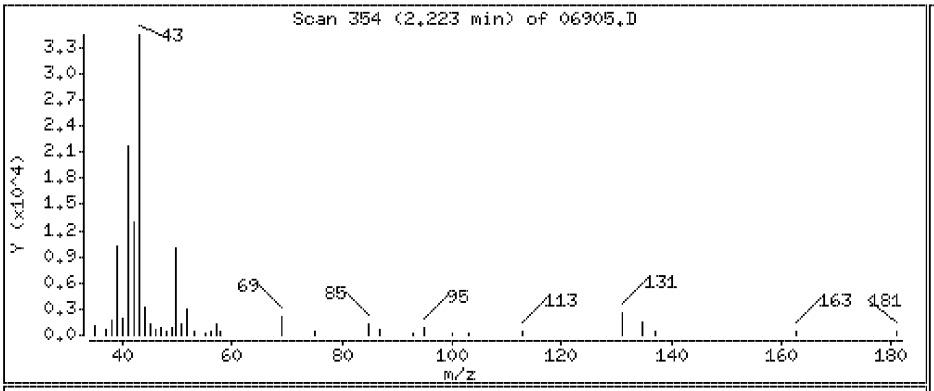
Operator: EMC

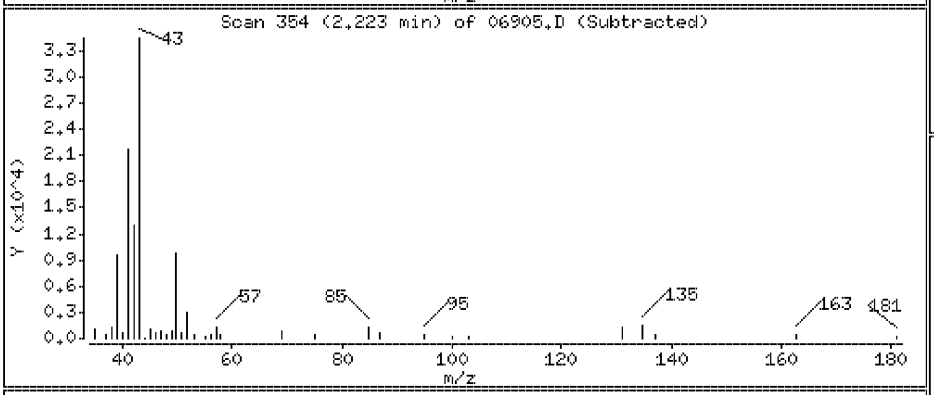
Column phase: J&W DB-5

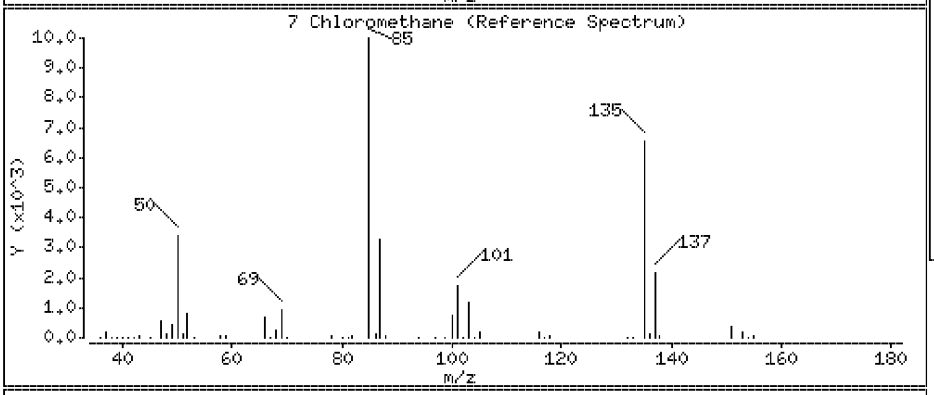
Column diameter: 0.32

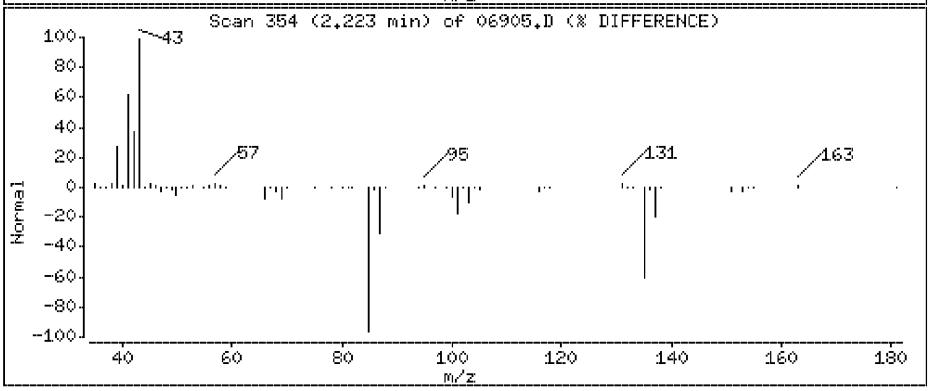
7 Chloromethane

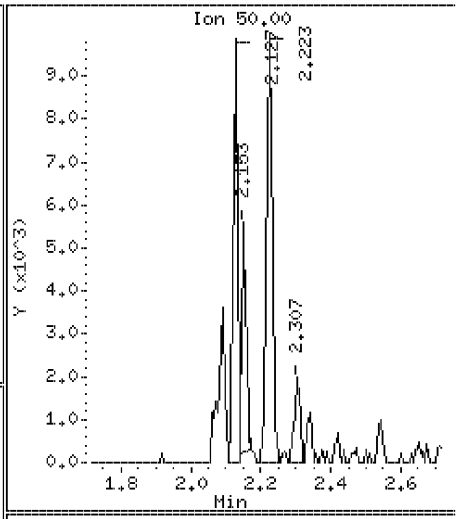
Concentration: 0.479 ppbv

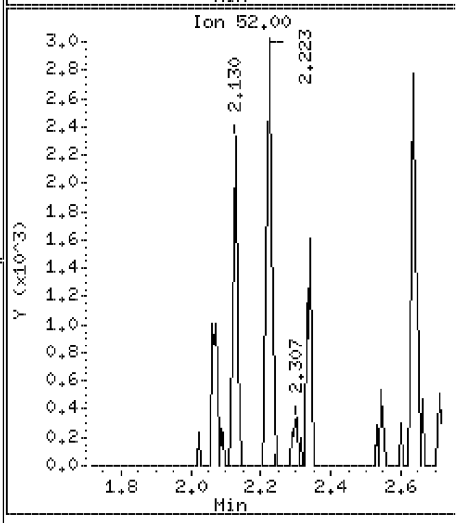












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

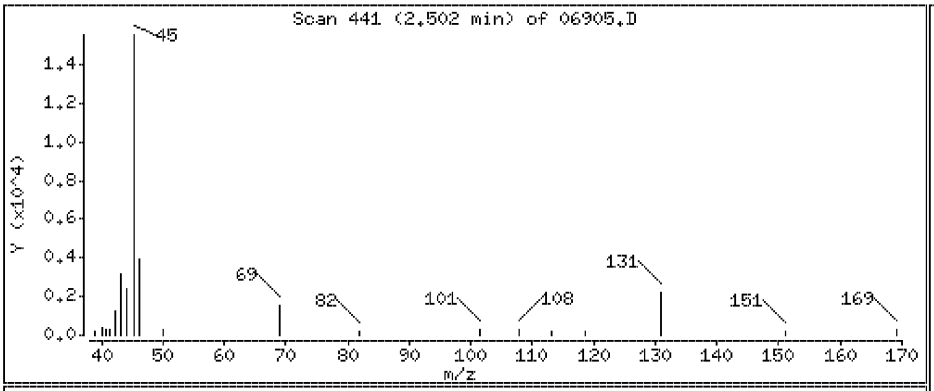
Operator: EMC

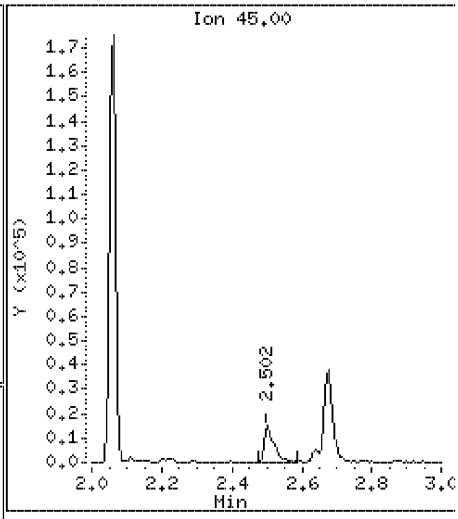
Column phase: J&W DB-5

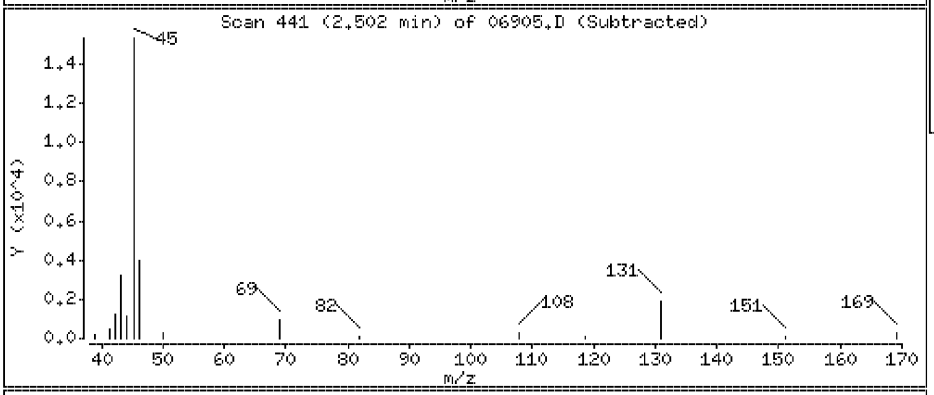
Column diameter: 0.32

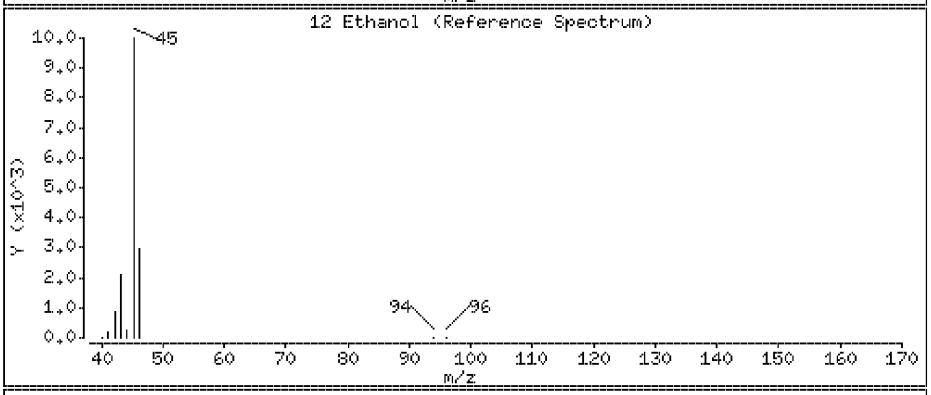
12 Ethanol

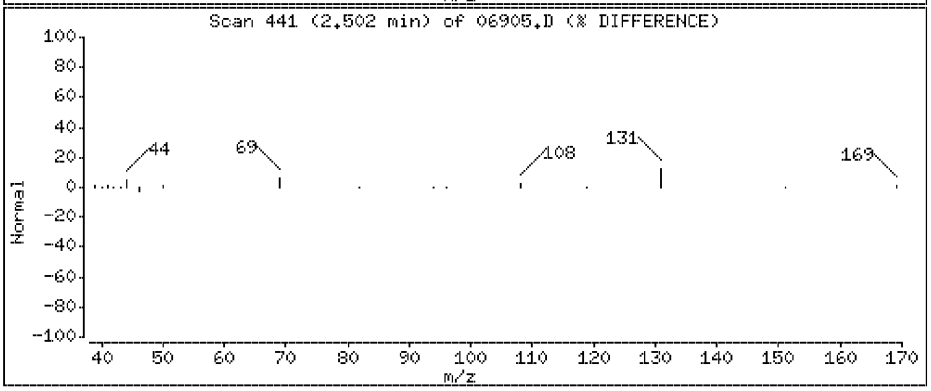
Concentration: 8.79 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

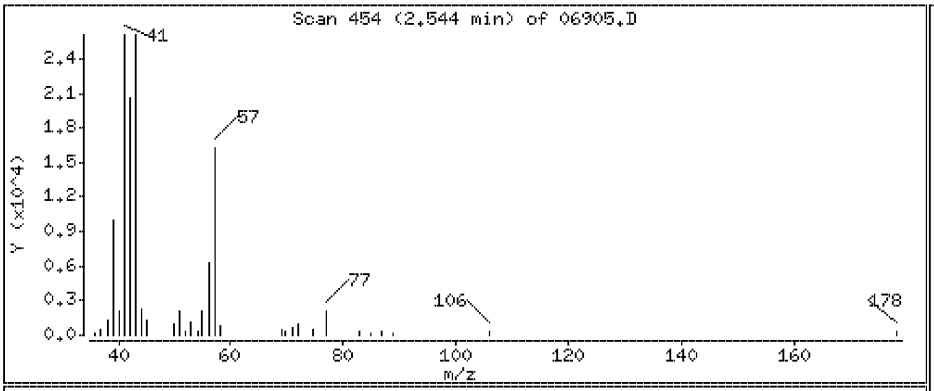
Operator: EMC

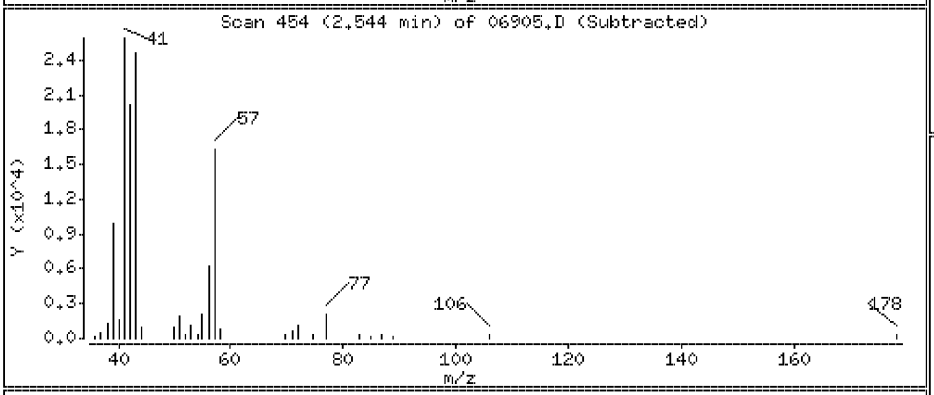
Column phase: J&W DB-5

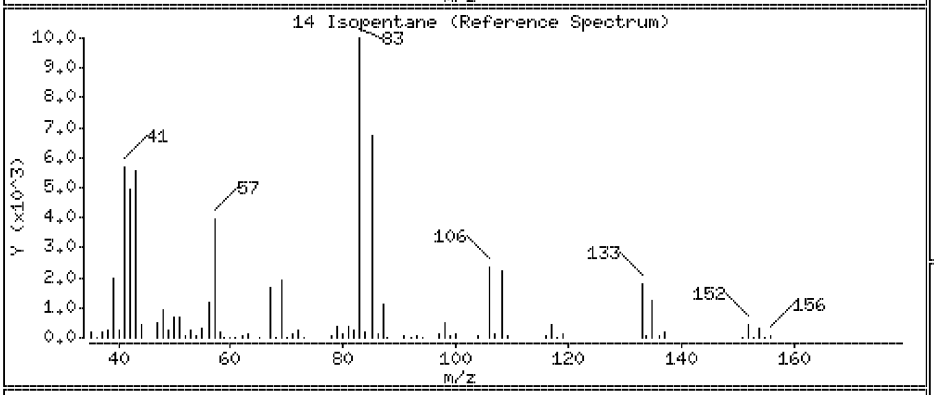
Column diameter: 0.32

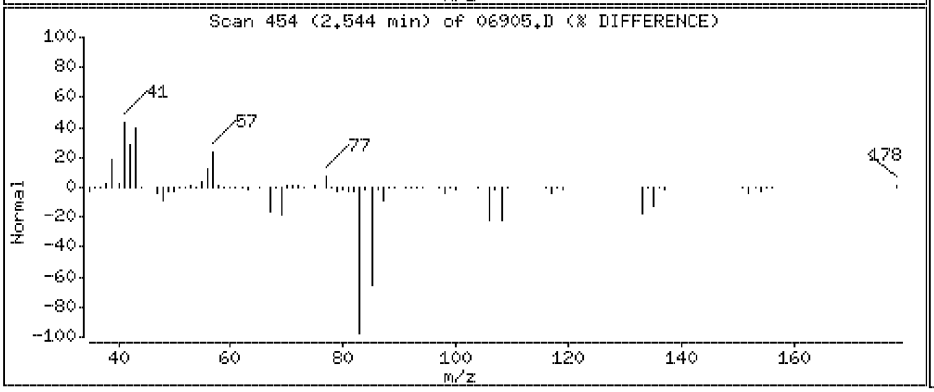
14 Isopentane

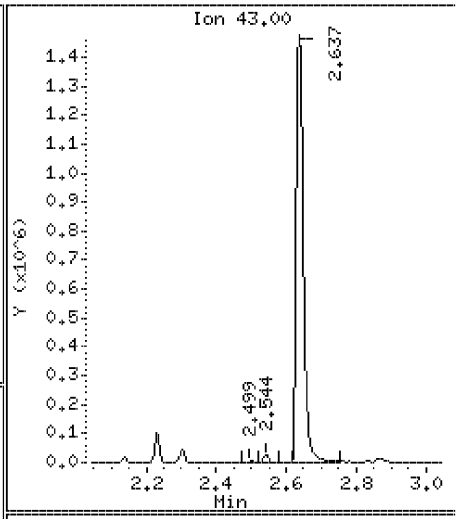
Concentration: 1.31 ppbv

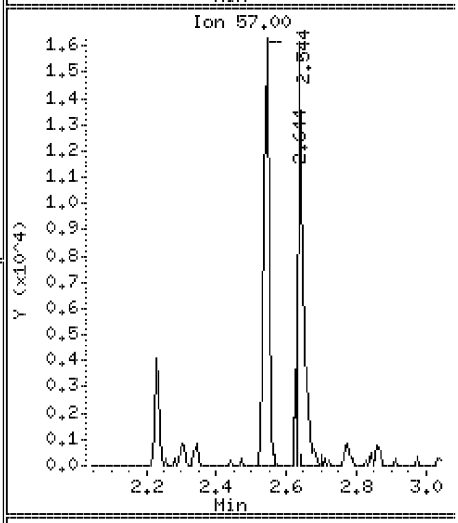


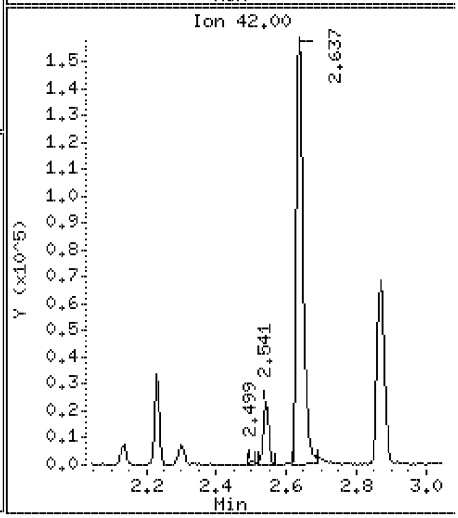












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

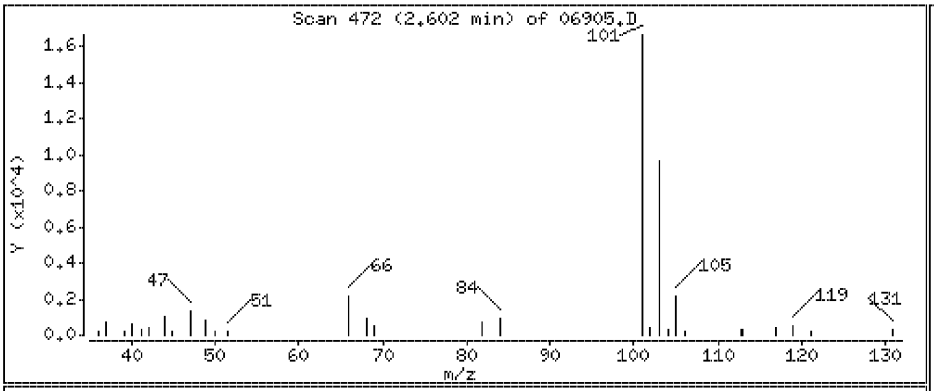
Operator: EMC

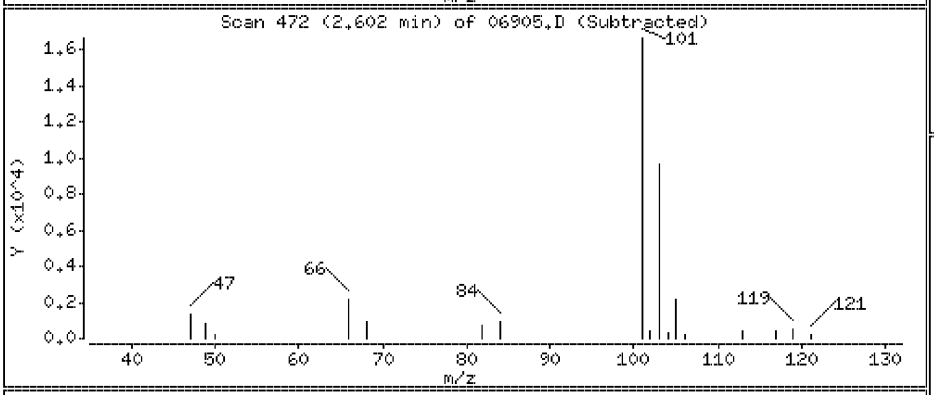
Column phase: J&W DB-5

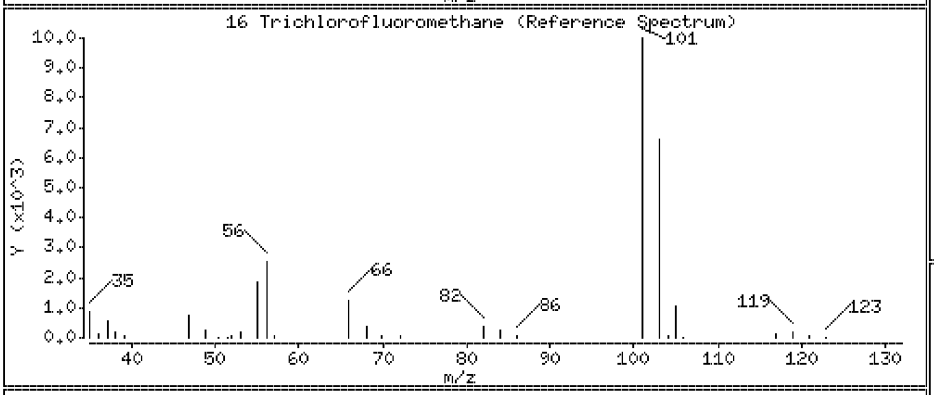
Column diameter: 0.32

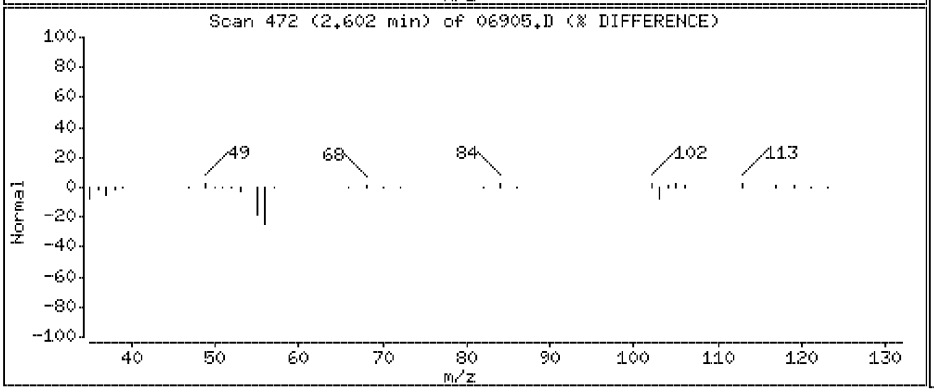
16 Trichlorofluoromethane

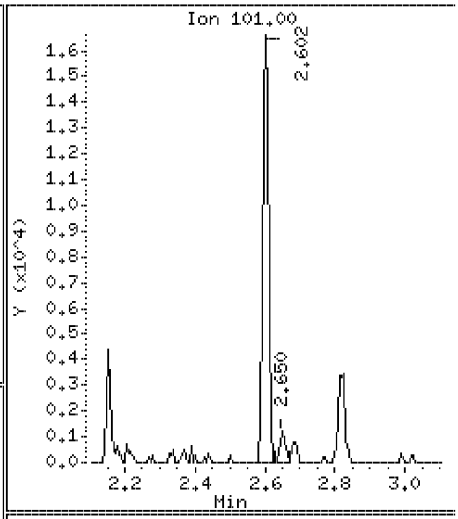
Concentration: 0.353 ppbv

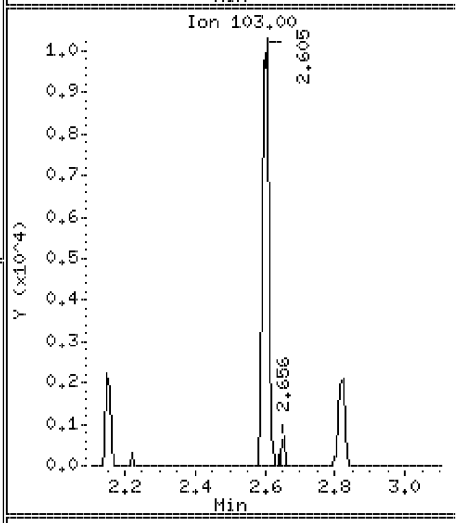


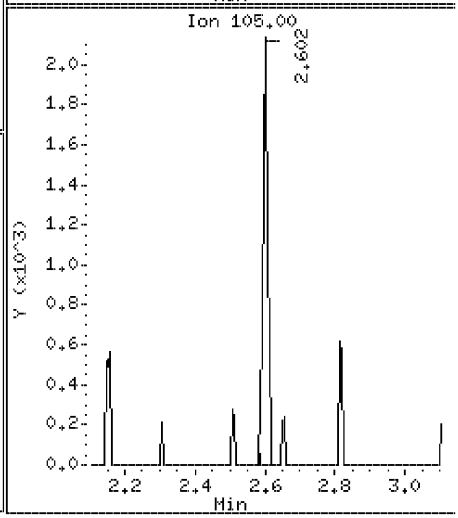












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

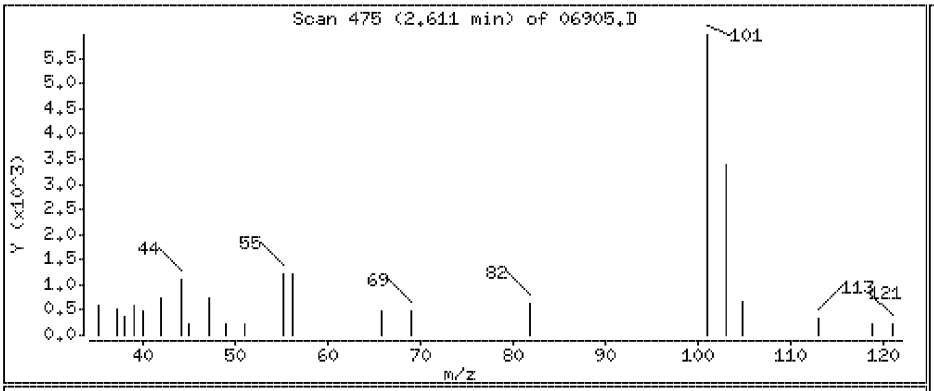
Operator: EMC

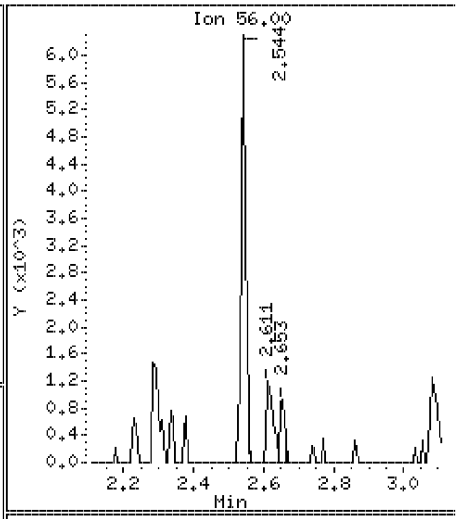
Column phase: J&W DB-5

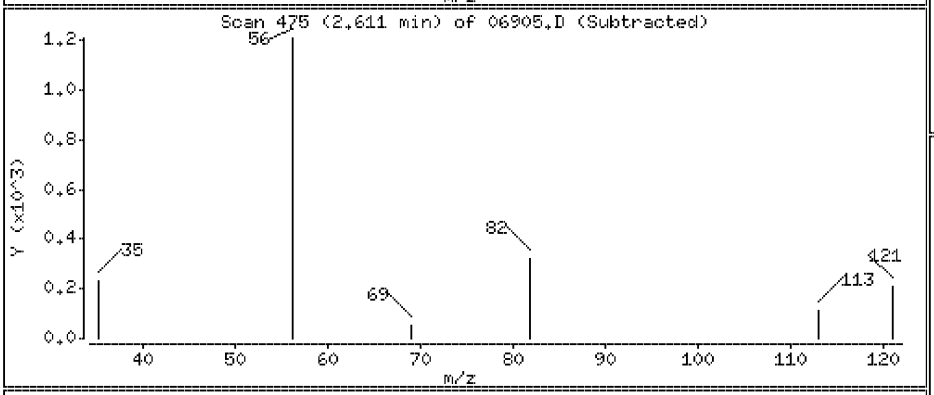
Column diameter: 0.32

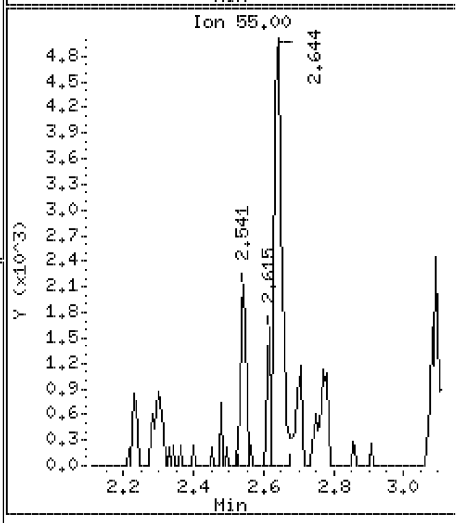
17 Acrolein

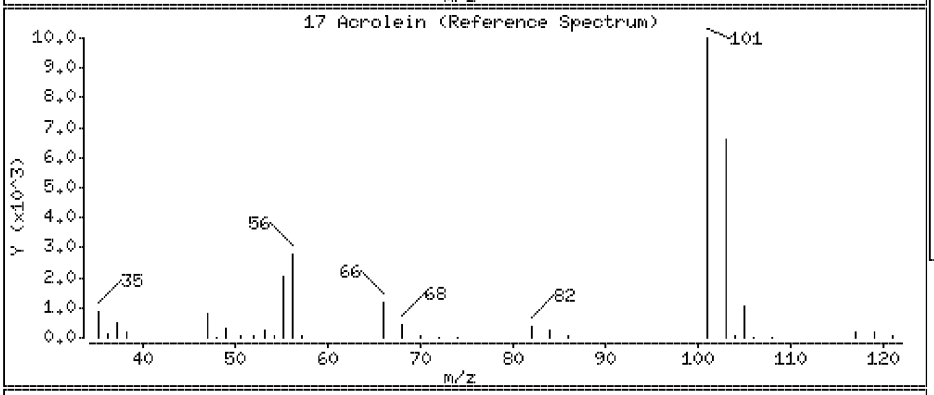
Concentration: 0.980 ppbv

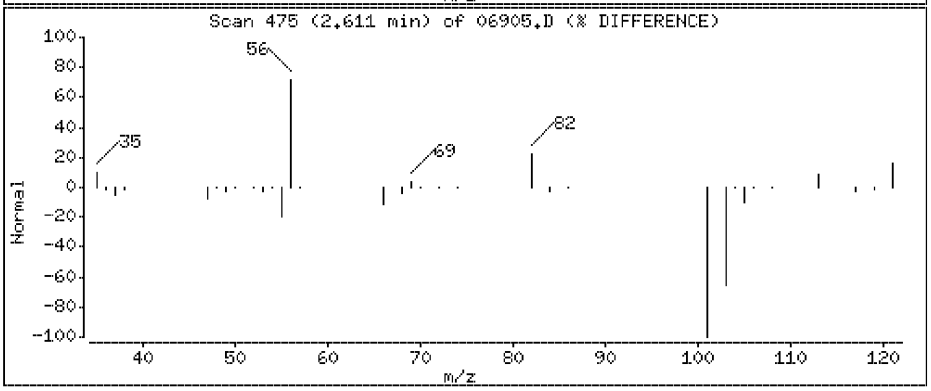












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

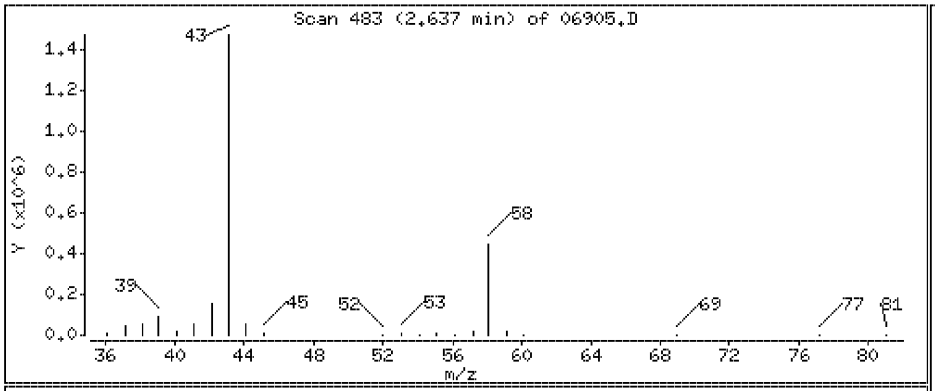
Operator: EMC

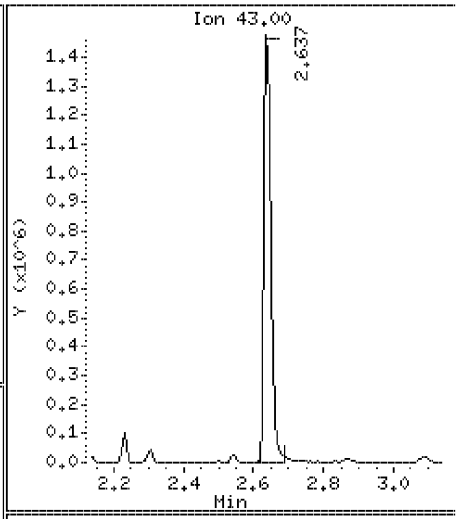
Column phase: J&W DB-5

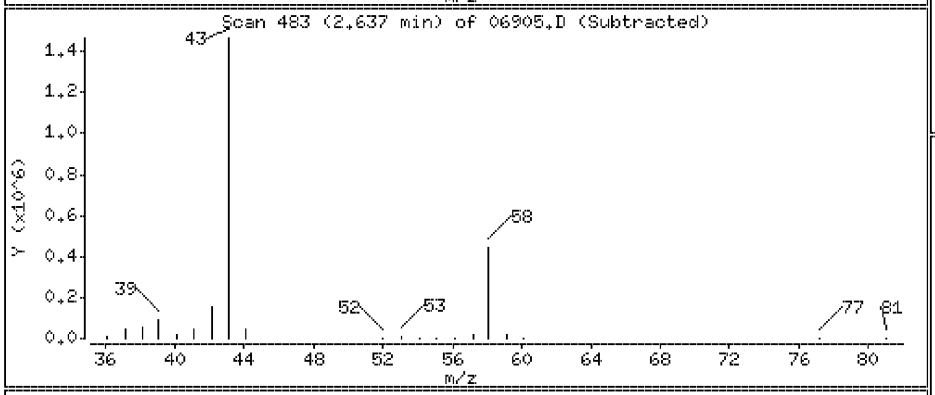
Column diameter: 0.32

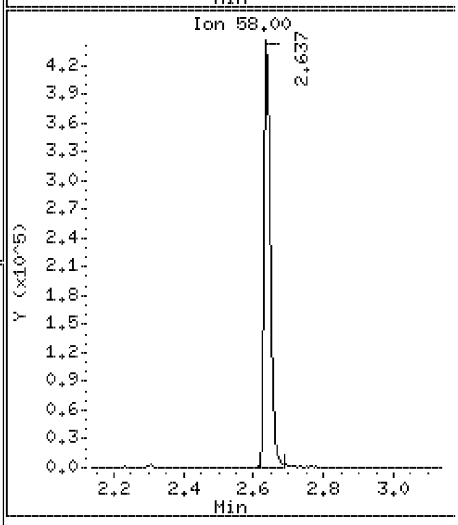
18 Acetone

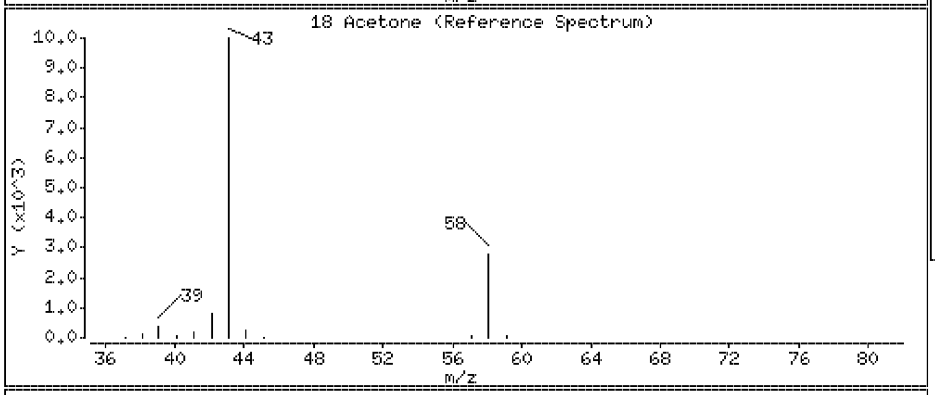
Concentration: 89.6 ppbv

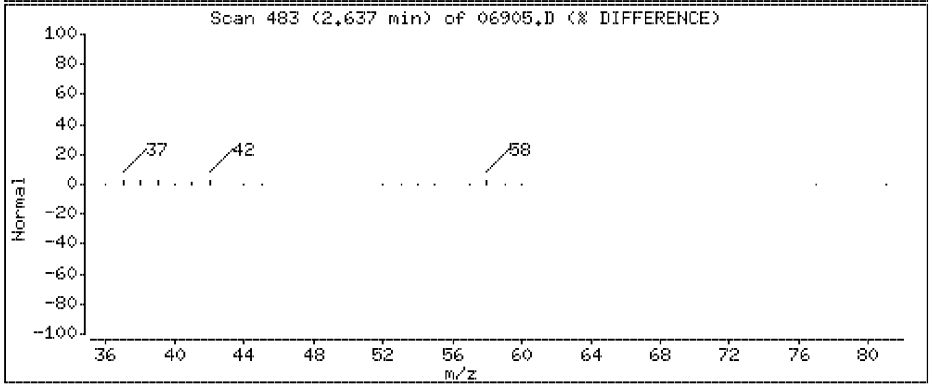












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

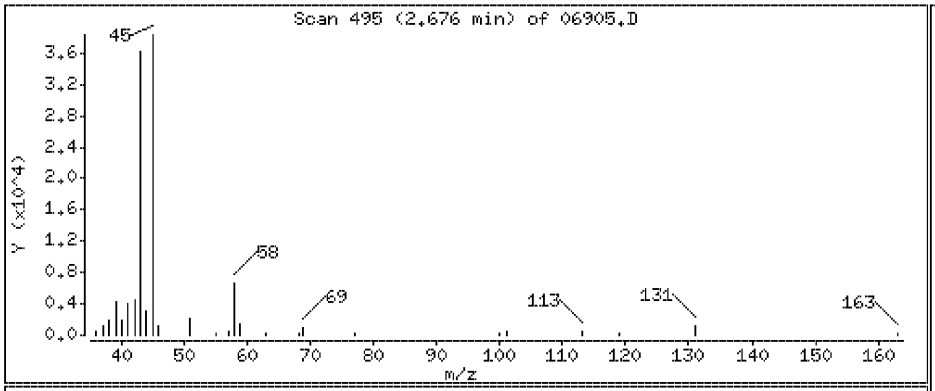
Operator: EMC

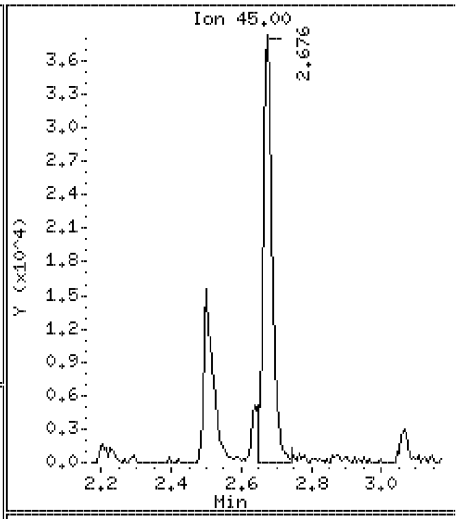
Column phase: J&W DB-5

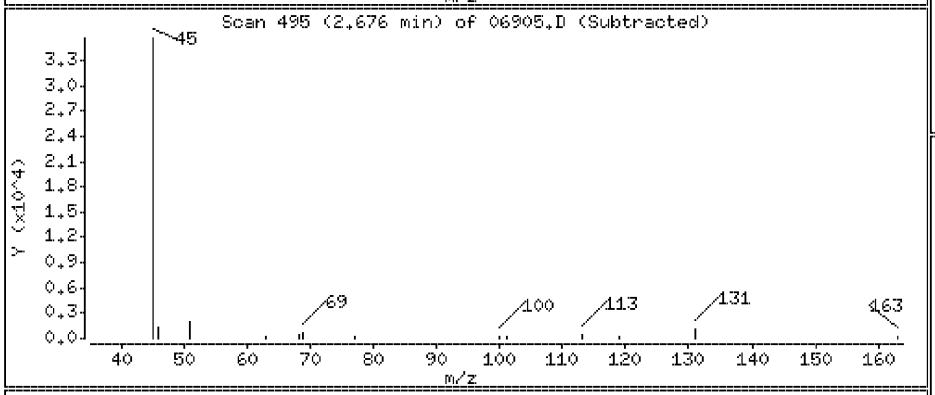
Column diameter: 0.32

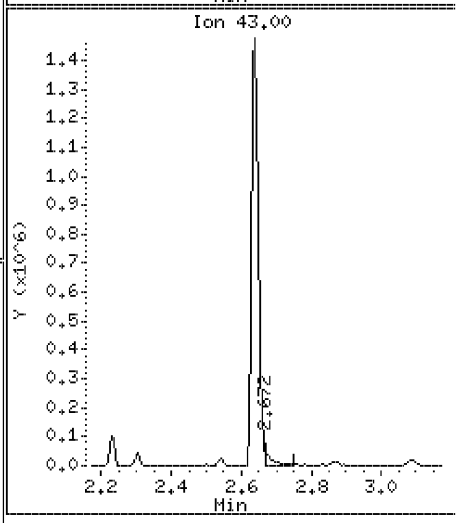
19 Isopropyl Alcohol

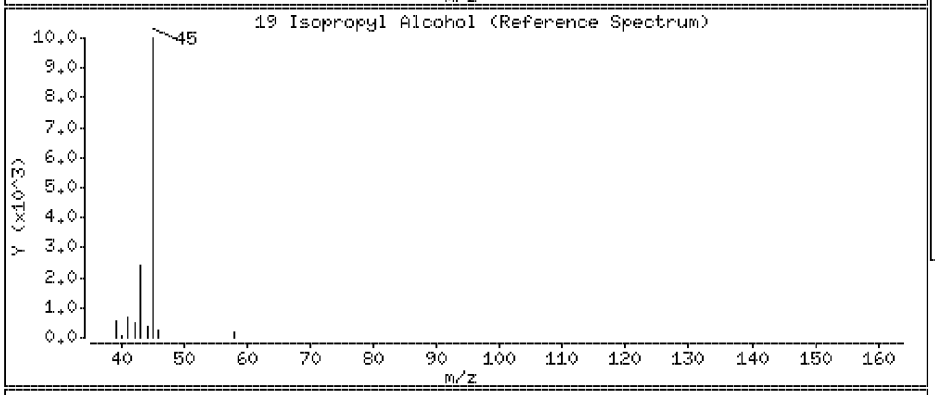
Concentration: 4.06 ppbv

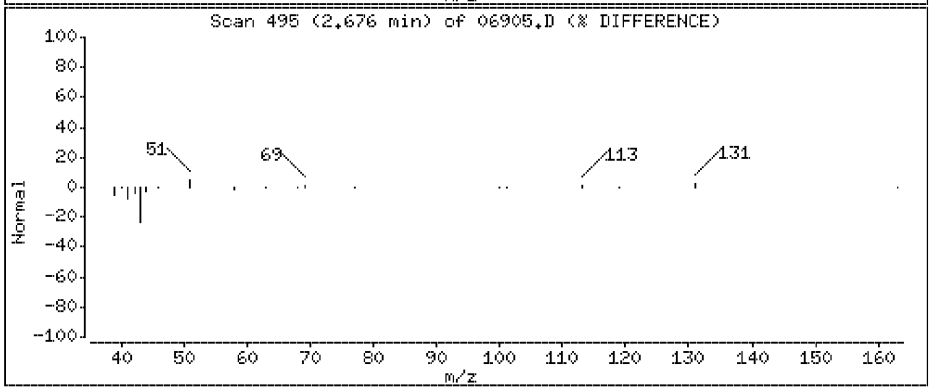












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

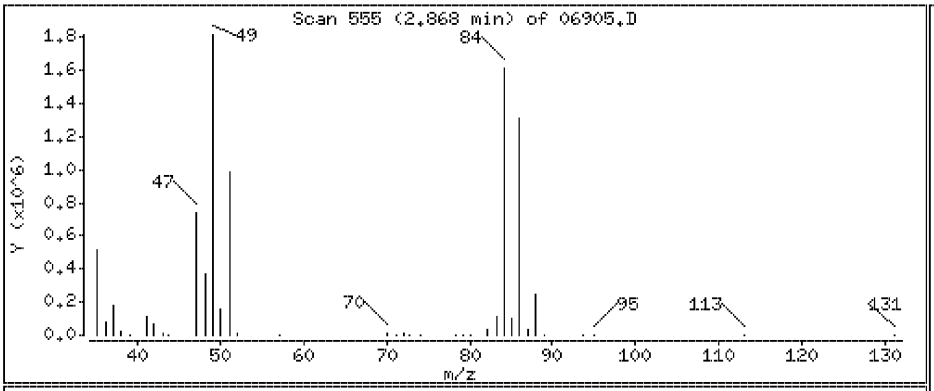
Operator: EMC

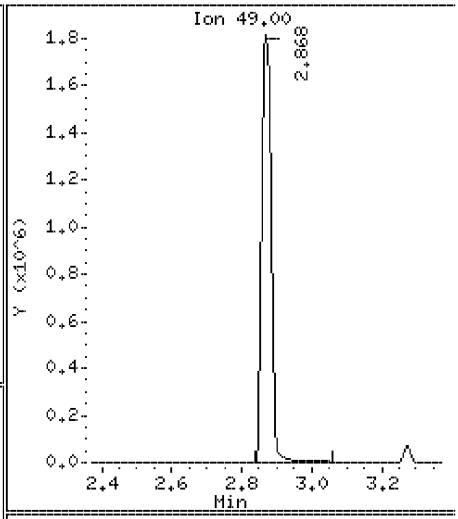
Column phase: J&W DB-5

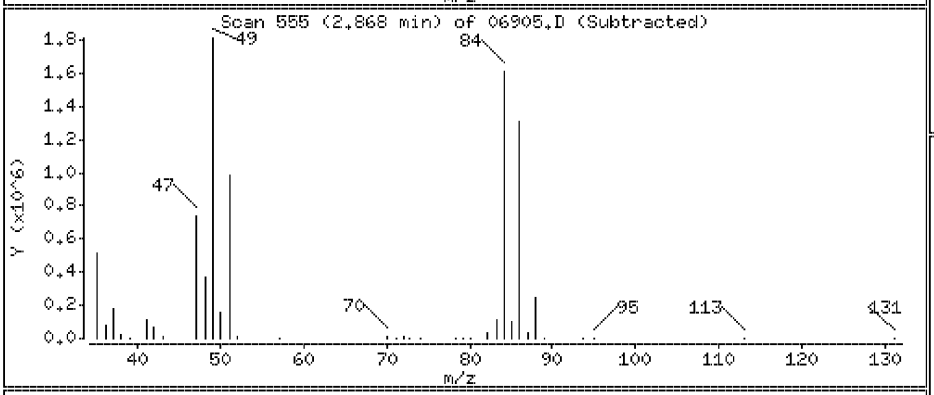
Column diameter: 0.32

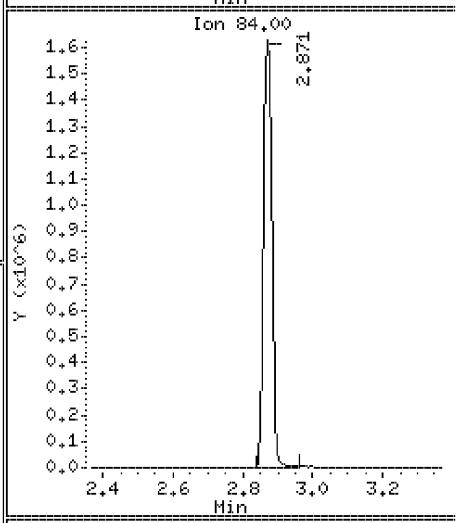
25 Methylene chloride

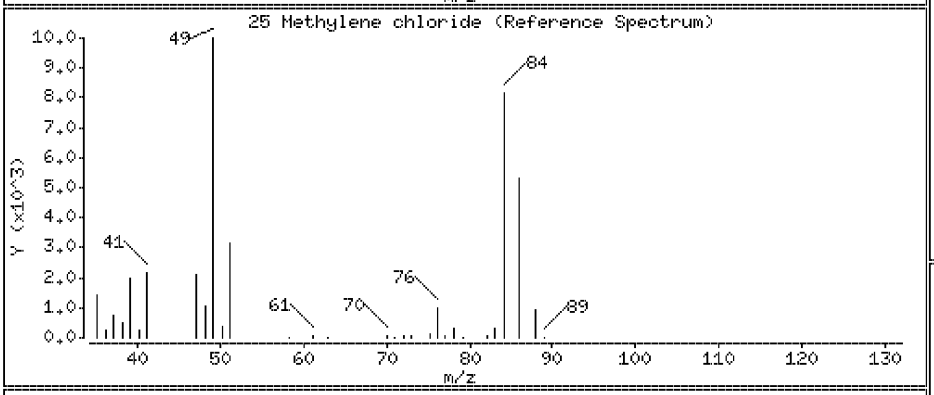
Concentration: 244 ppbv

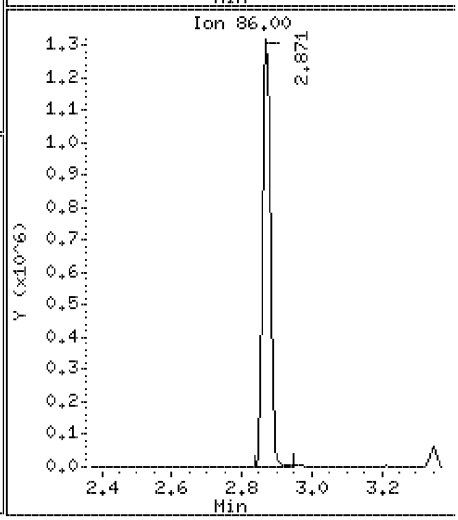


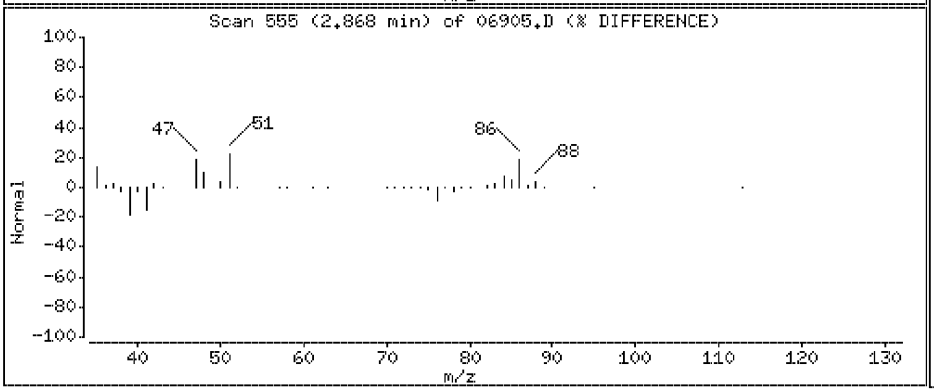












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

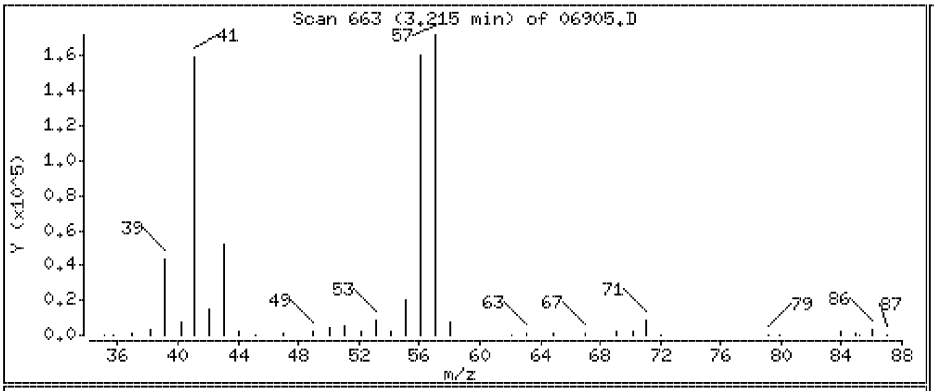
Operator: EMC

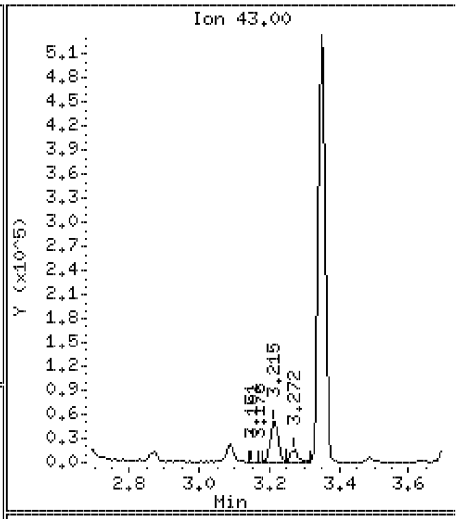
Column phase: J&W DB-5

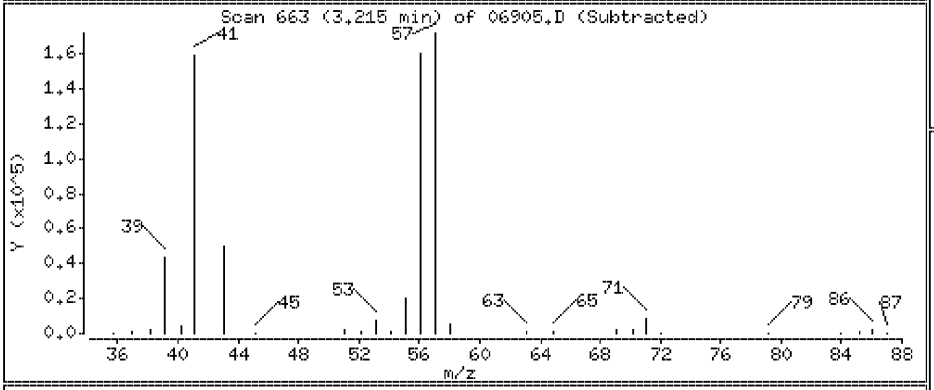
Column diameter: 0.32

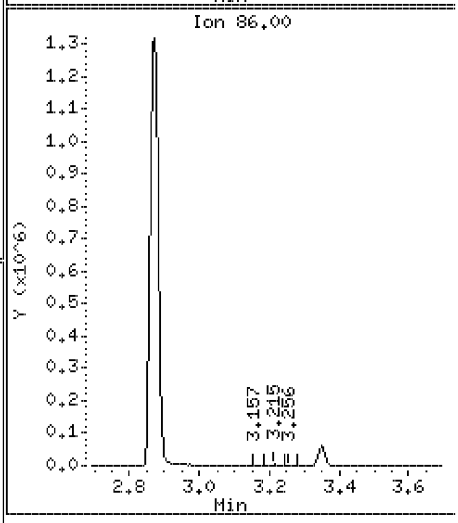
30 Vinyl Acetate

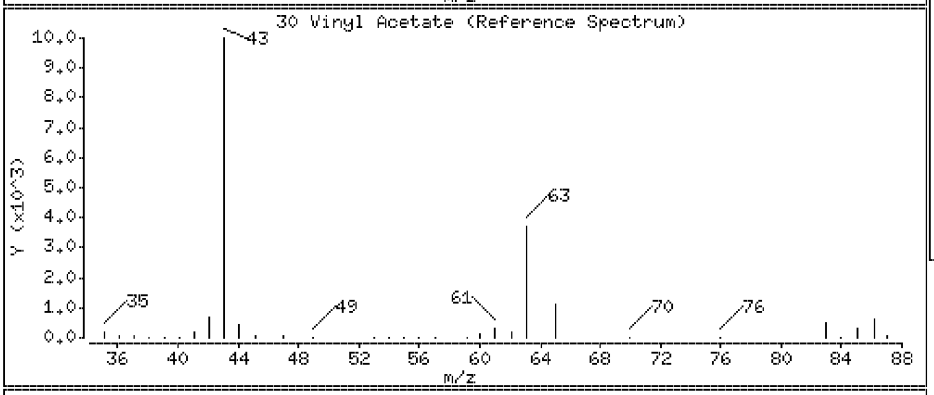
Concentration: 2.02 ppbv

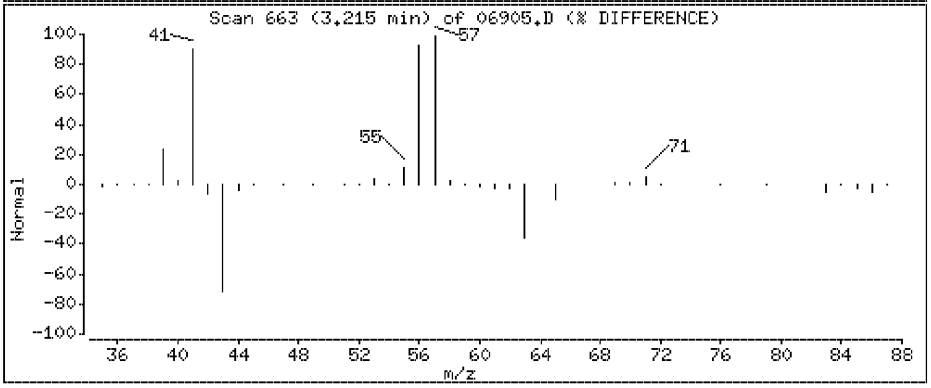












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

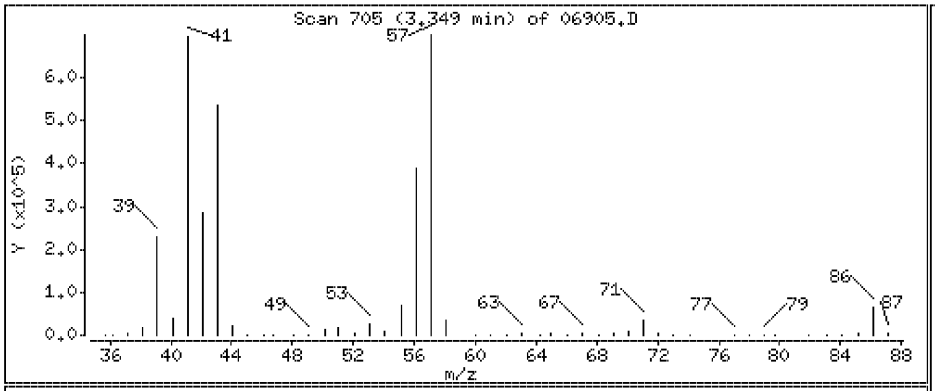
Operator: EMC

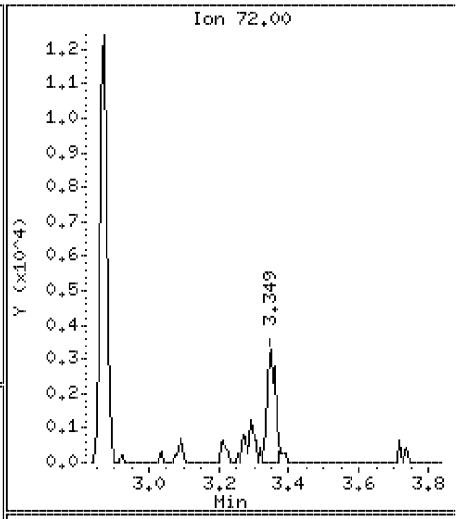
Column phase: J&W DB-5

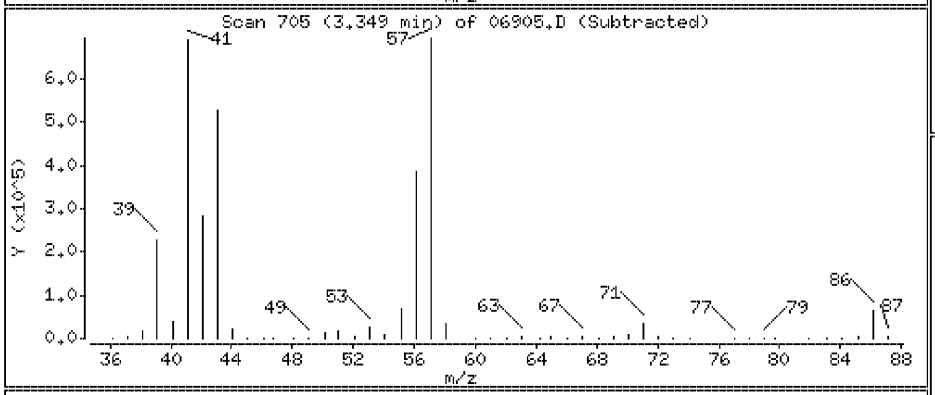
Column diameter: 0.32

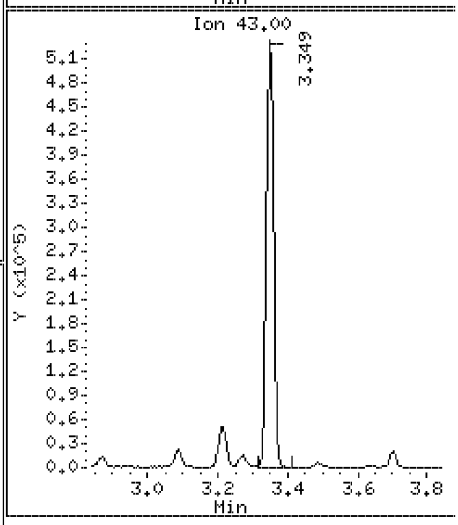
33 Methyl Ethyl Ketone

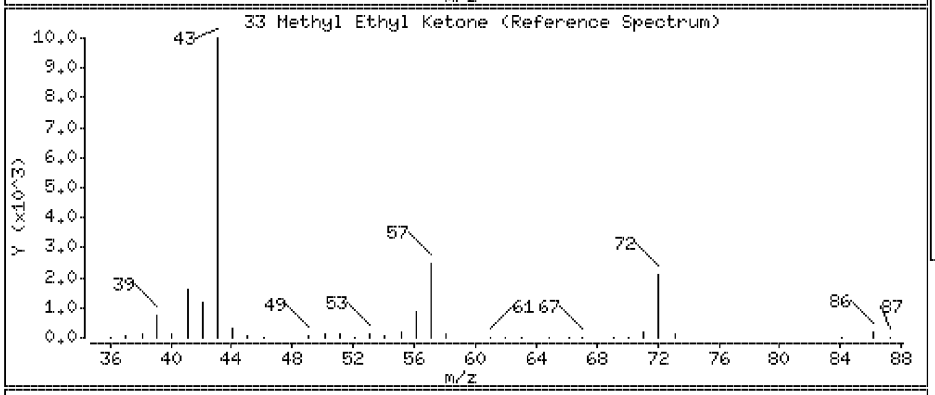
Concentration: 0.775 ppbv

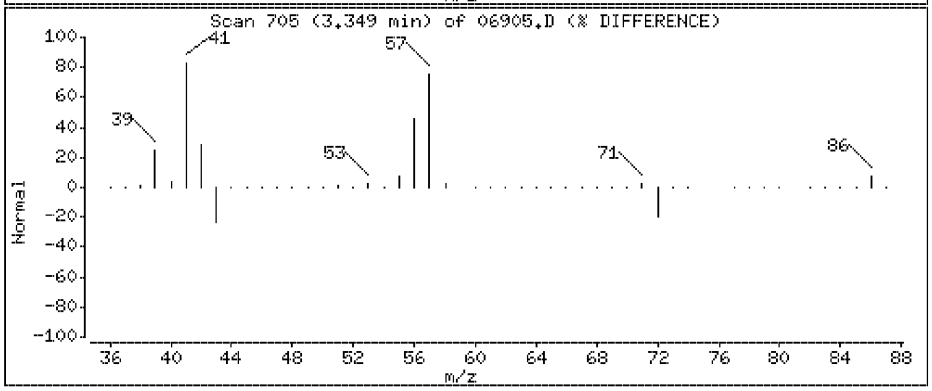












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

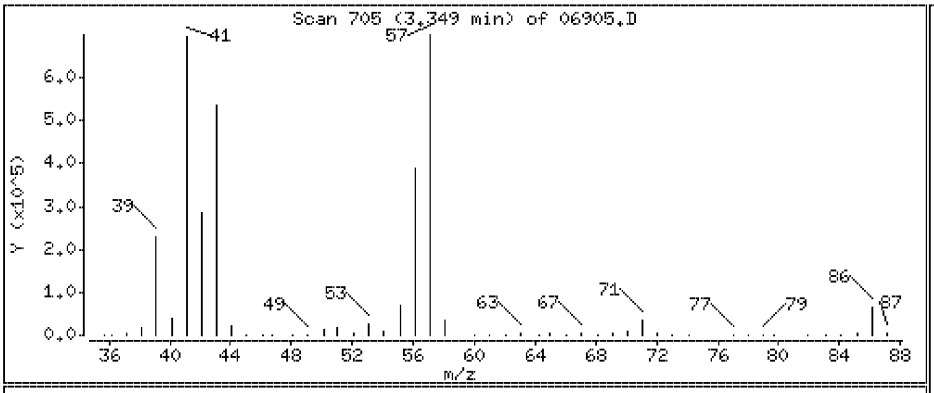
Operator: EMC

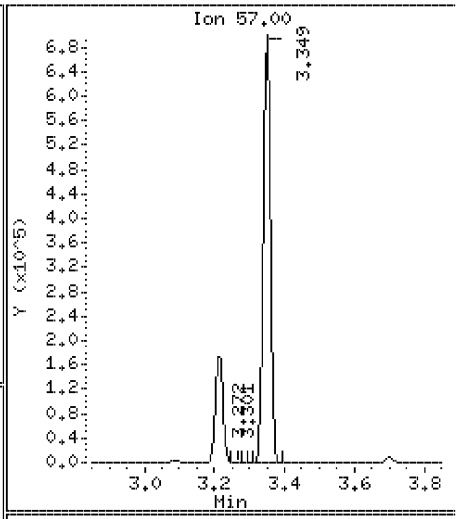
Column phase: J&W DB-5

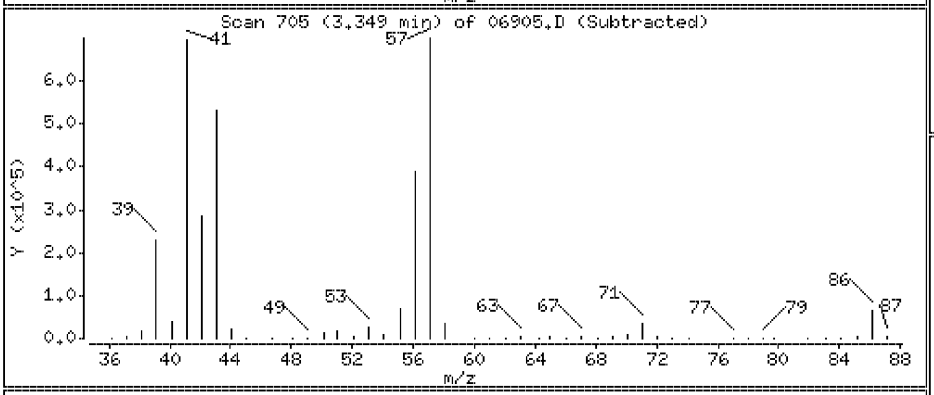
Column diameter: 0.32

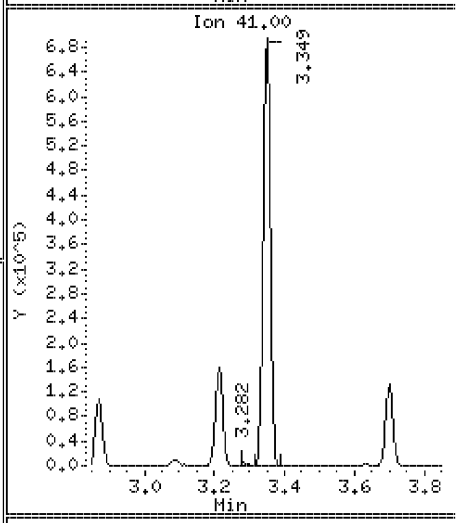
34 n-Hexane

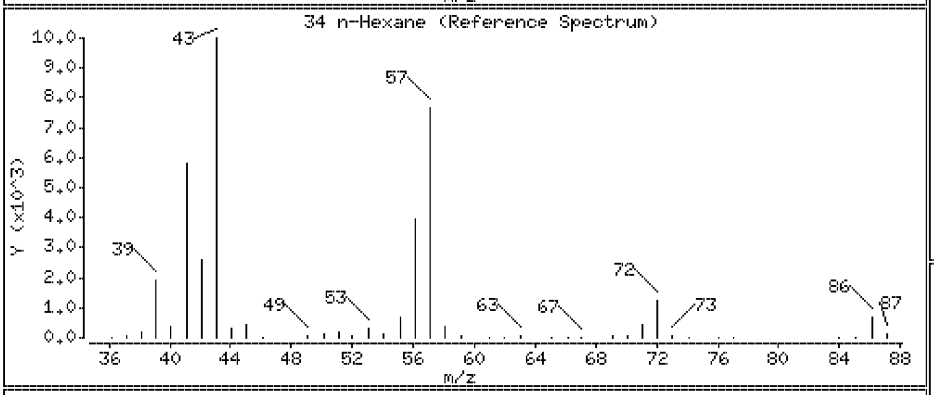
Concentration: 38.5 ppbv

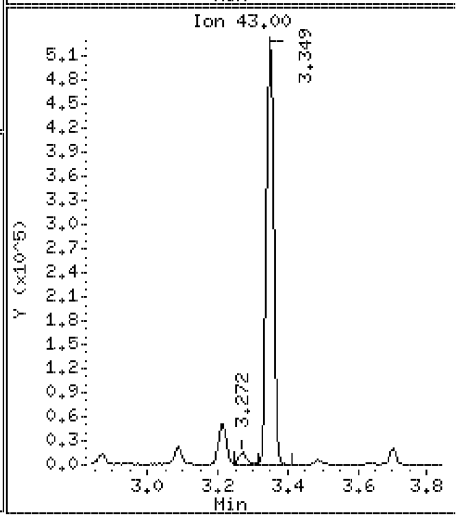


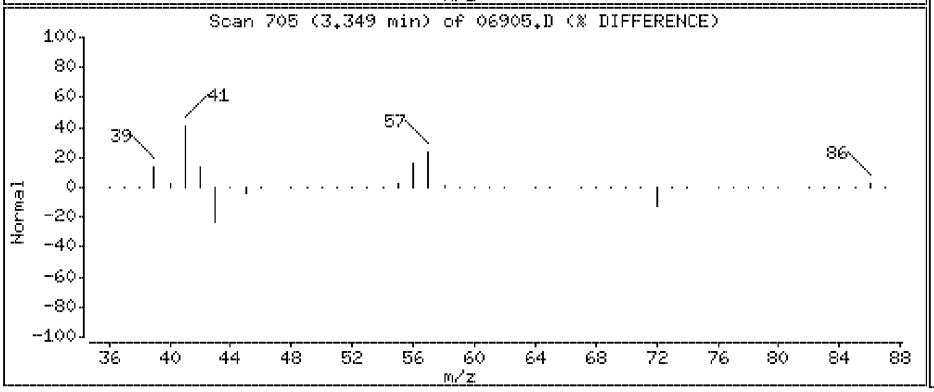












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

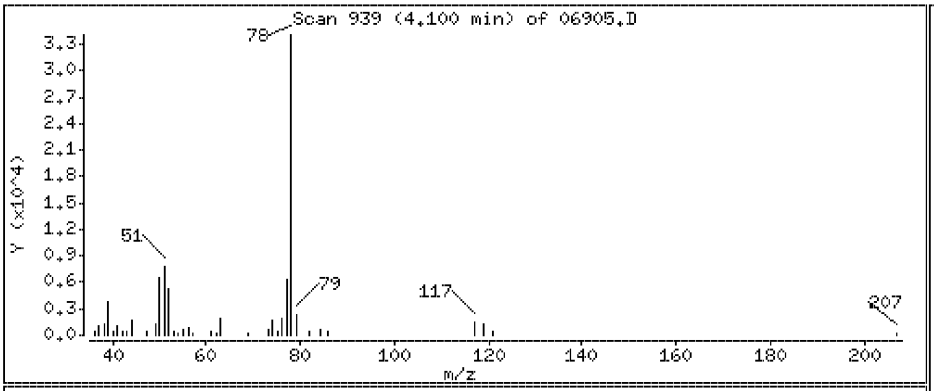
Operator: EMC

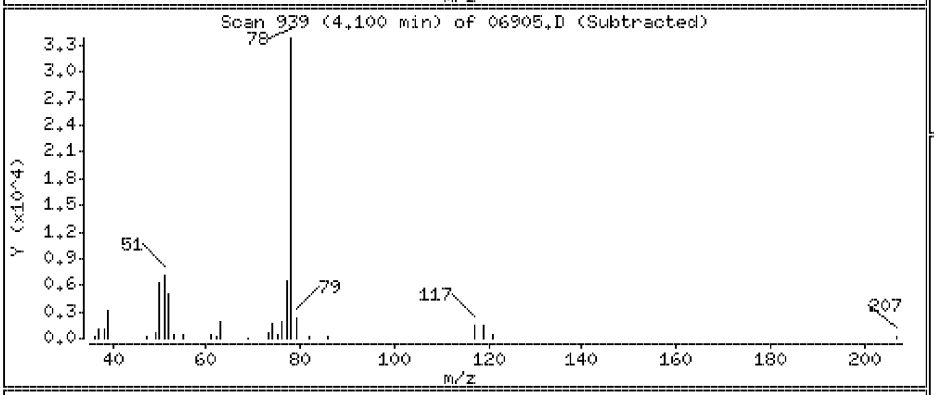
Column phase: J&W DB-5

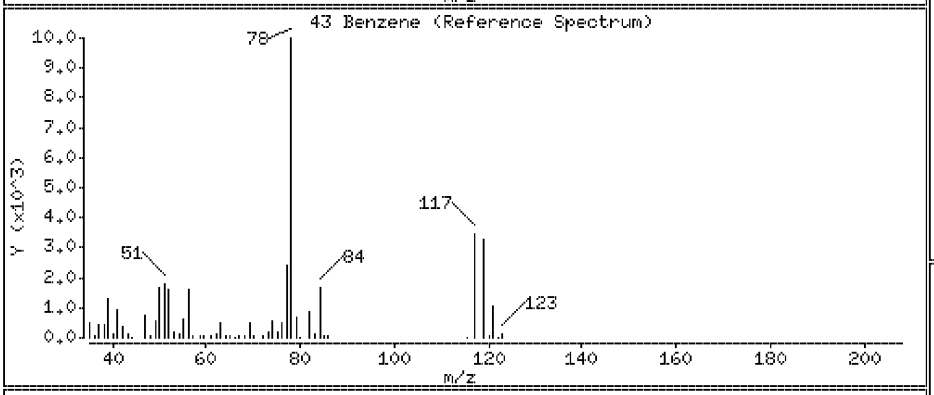
Column diameter: 0.32

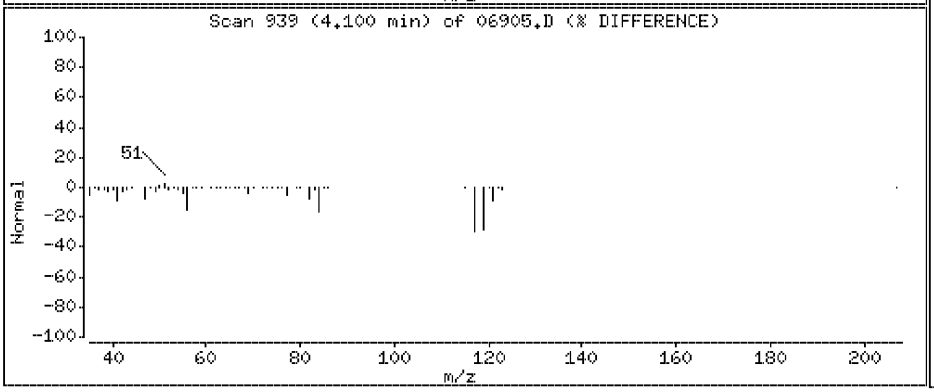
43 Benzene

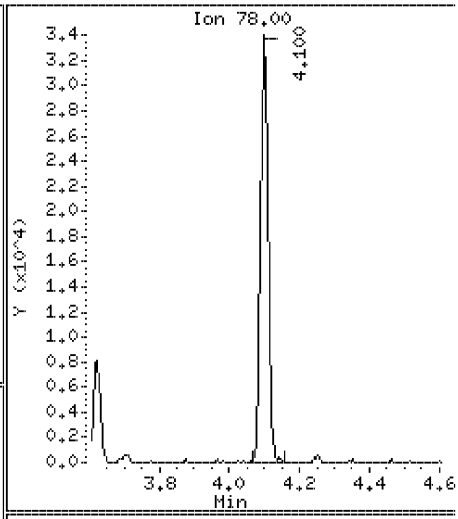
Concentration: 1.04 ppbv

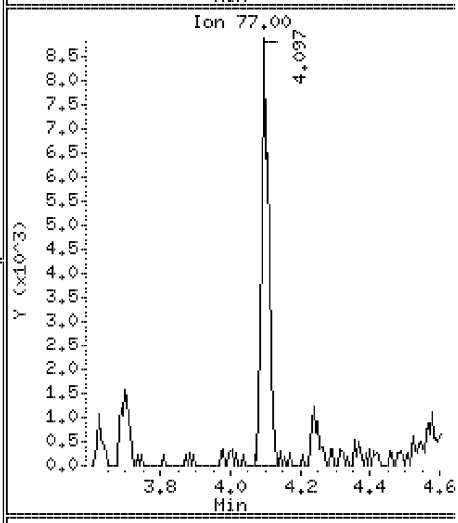


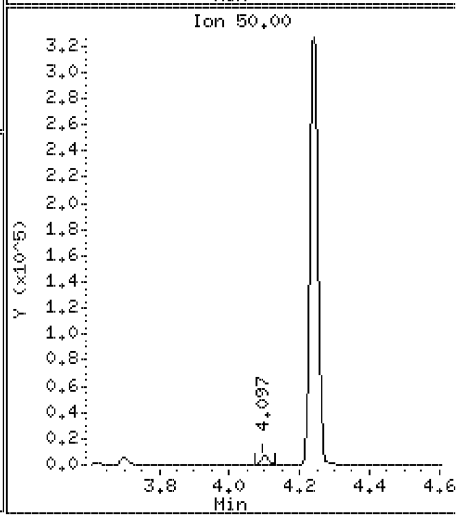












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

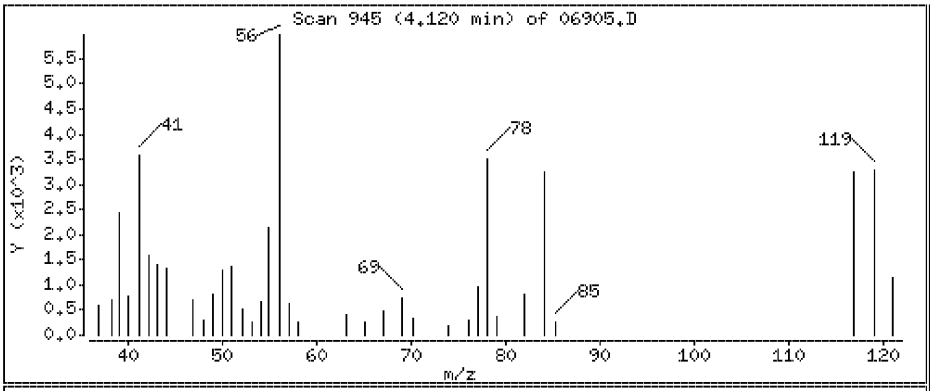
Operator: EMC

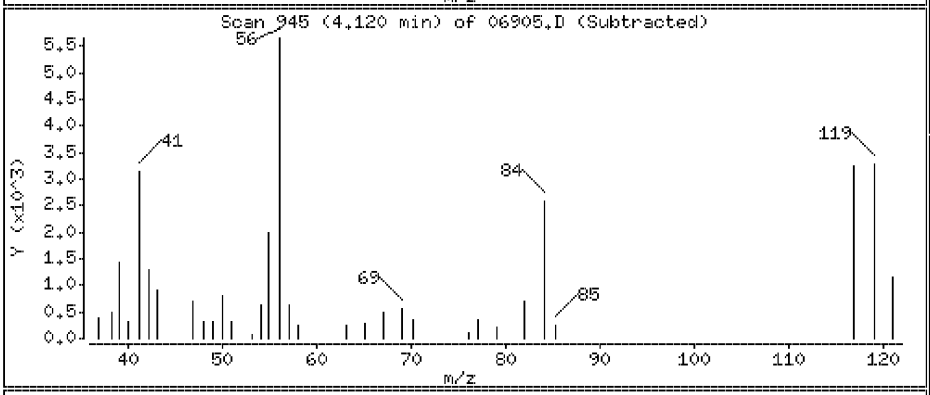
Column phase: J&W DB-5

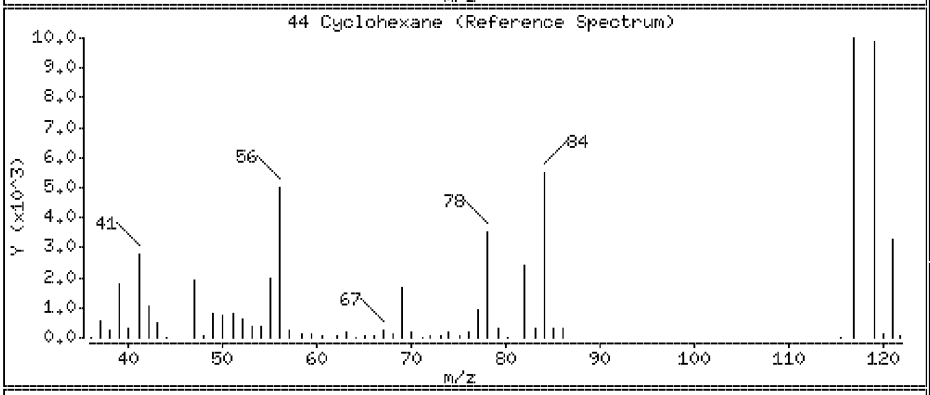
Column diameter: 0.32

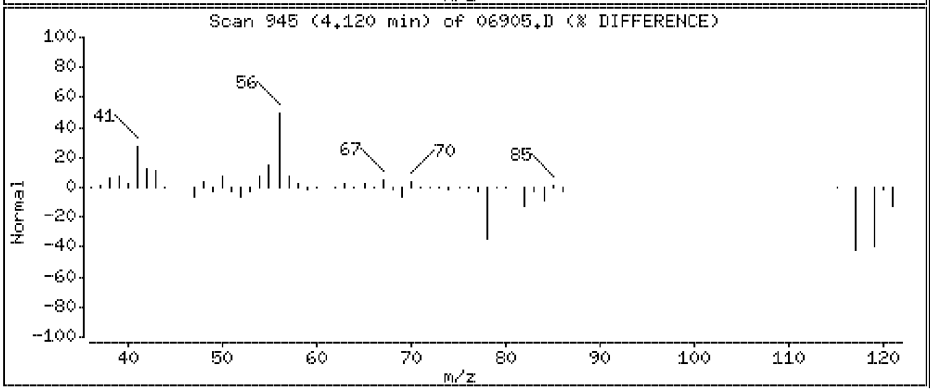
44 Cyclohexane

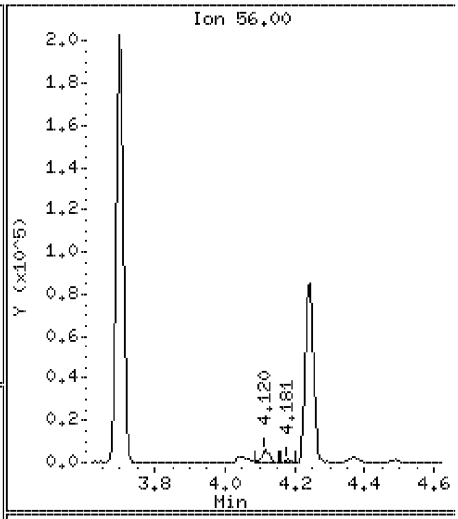
Concentration: 0.342 ppbv

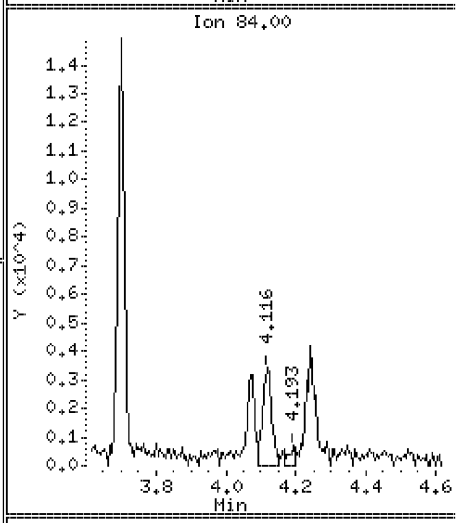


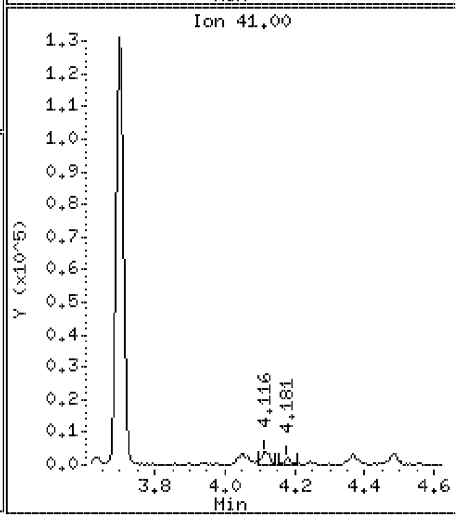












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

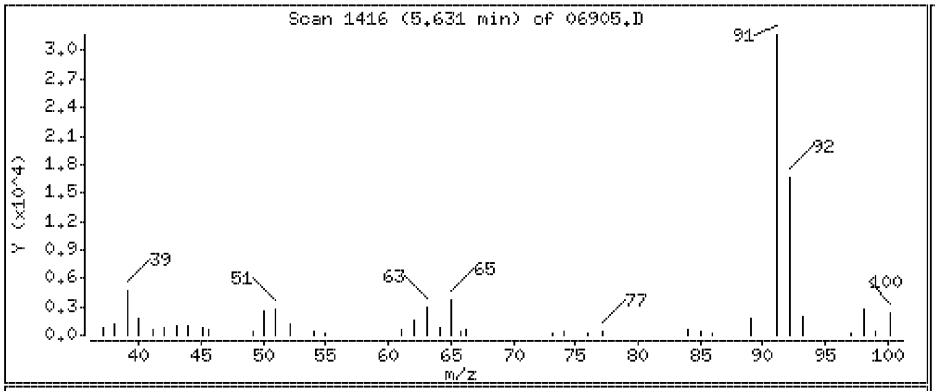
Operator: EMC

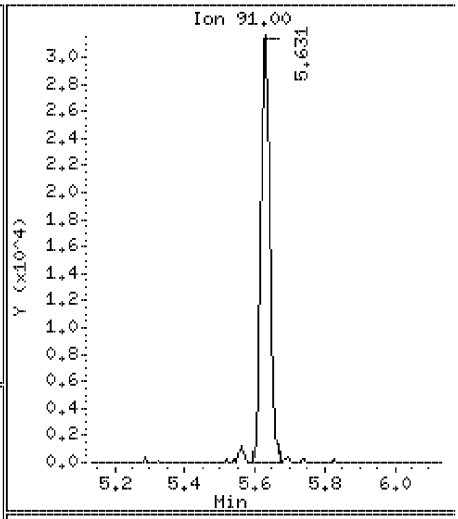
Column phase: J&W DB-5

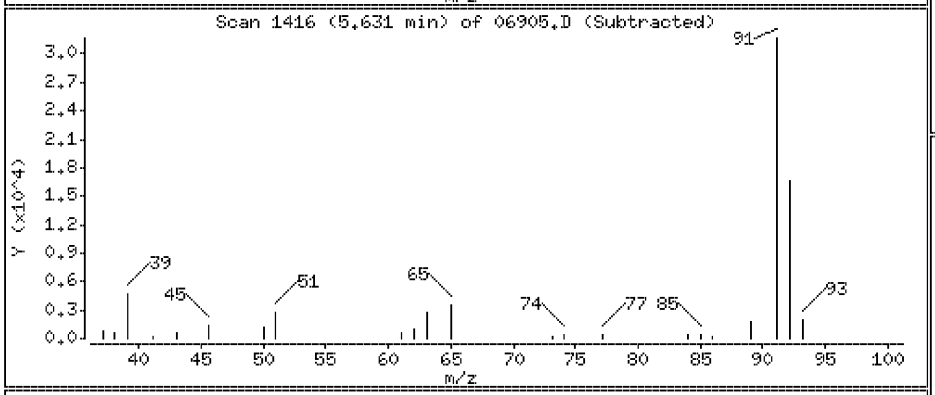
Column diameter: 0.32

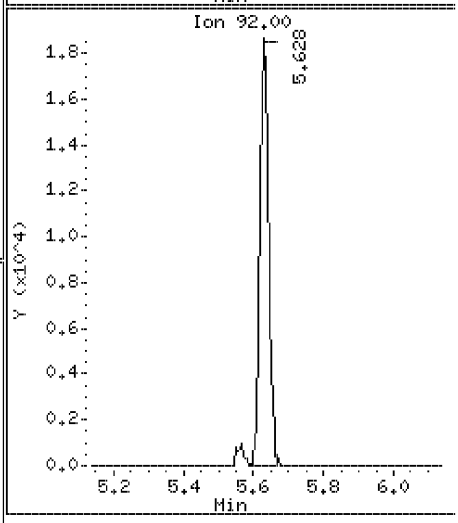
60 Toluene

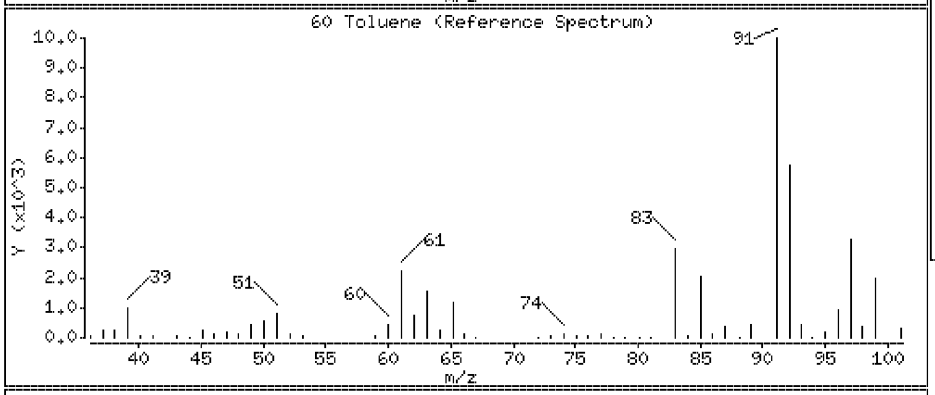
Concentration: 0.857 ppbv

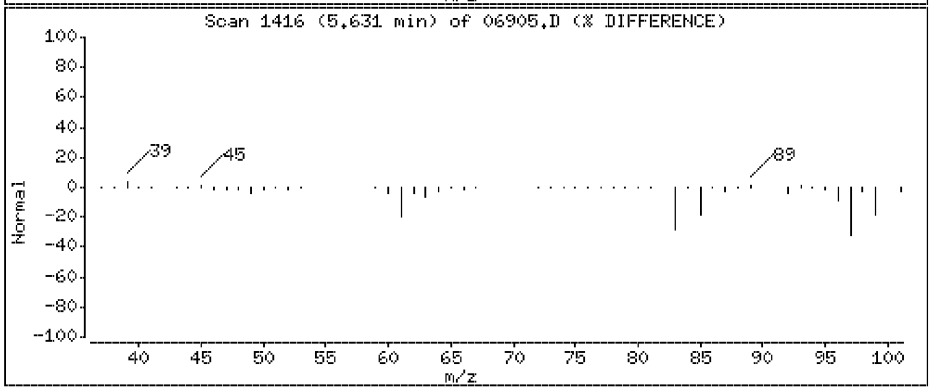












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06905.D

Date : 10-MAR-2017 16:54

Client ID:

Instrument: 10airD.i

Sample Info:

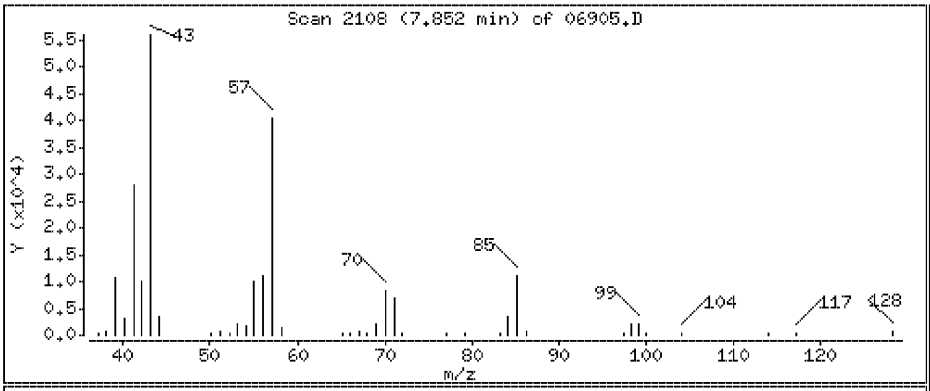
Operator: EMC

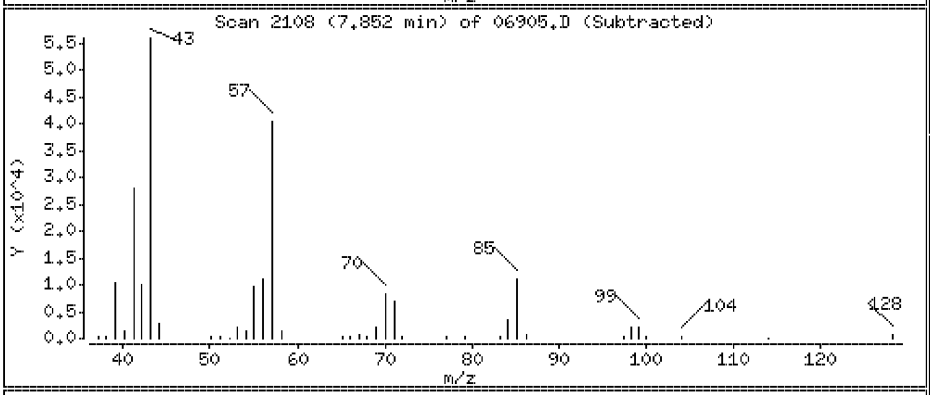
Column phase: J&W DB-5

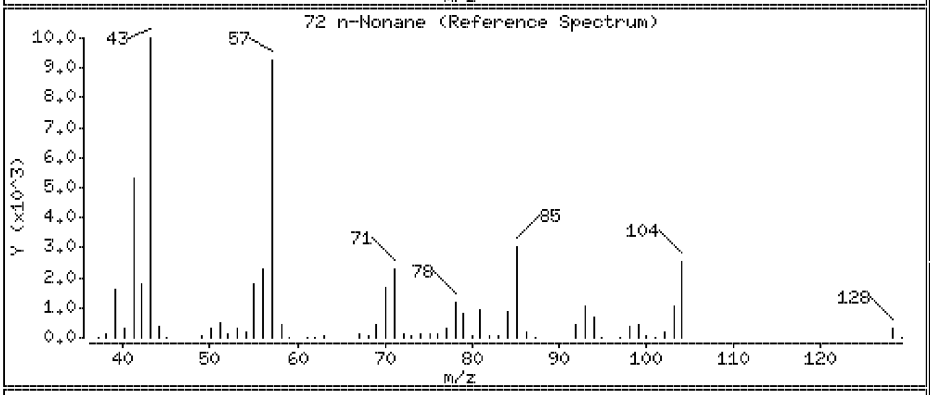
Column diameter: 0.32

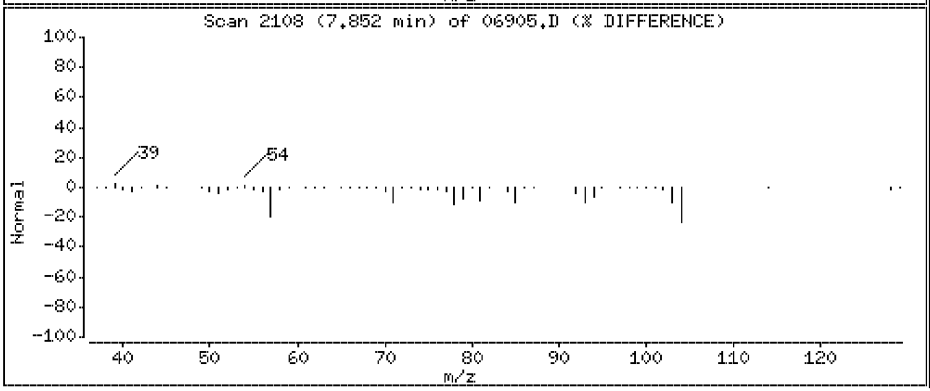
72 n-Nonane

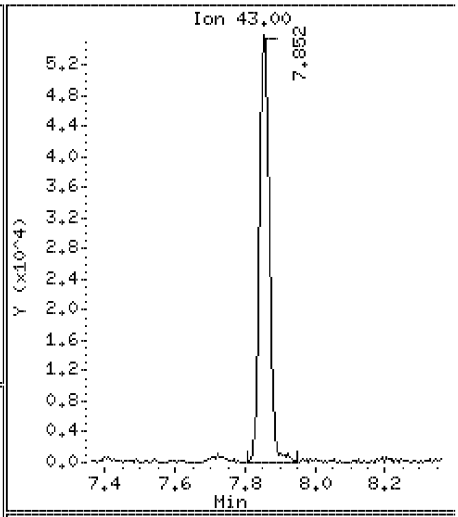
Concentration: 2.91 ppbv

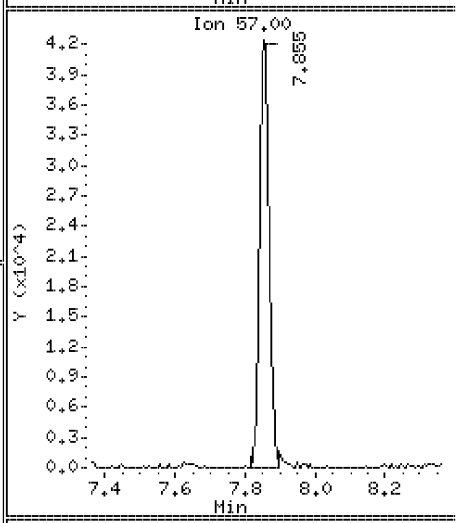


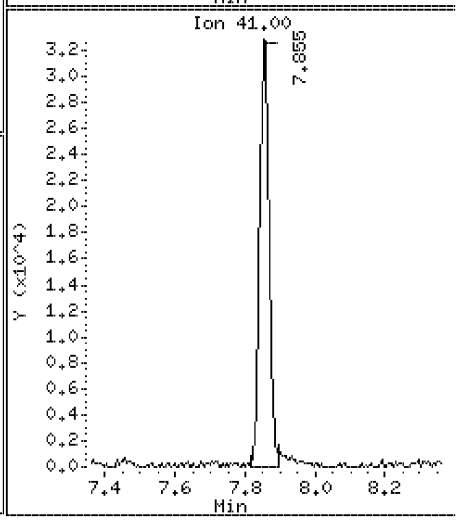






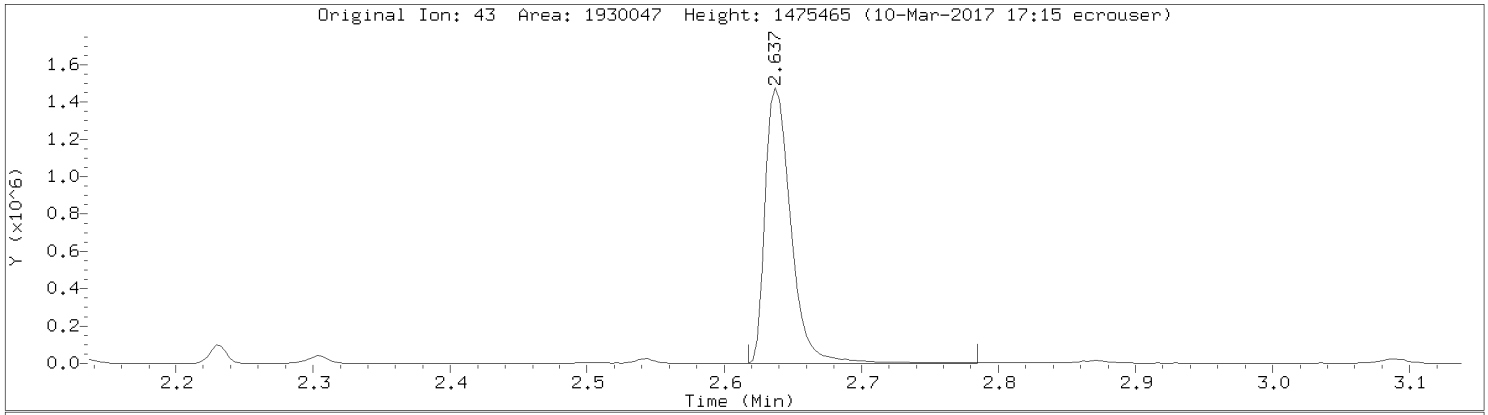


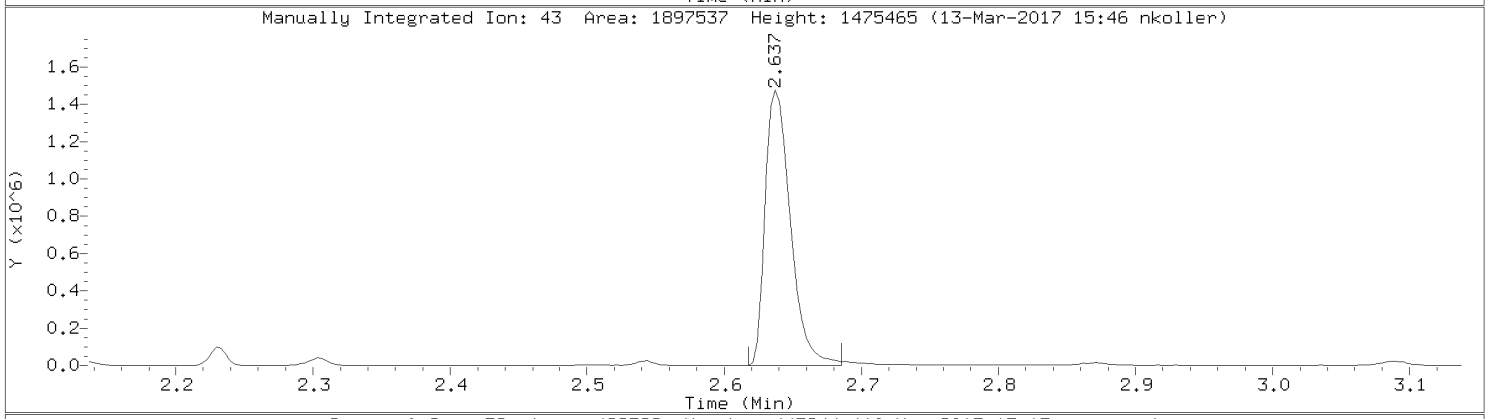


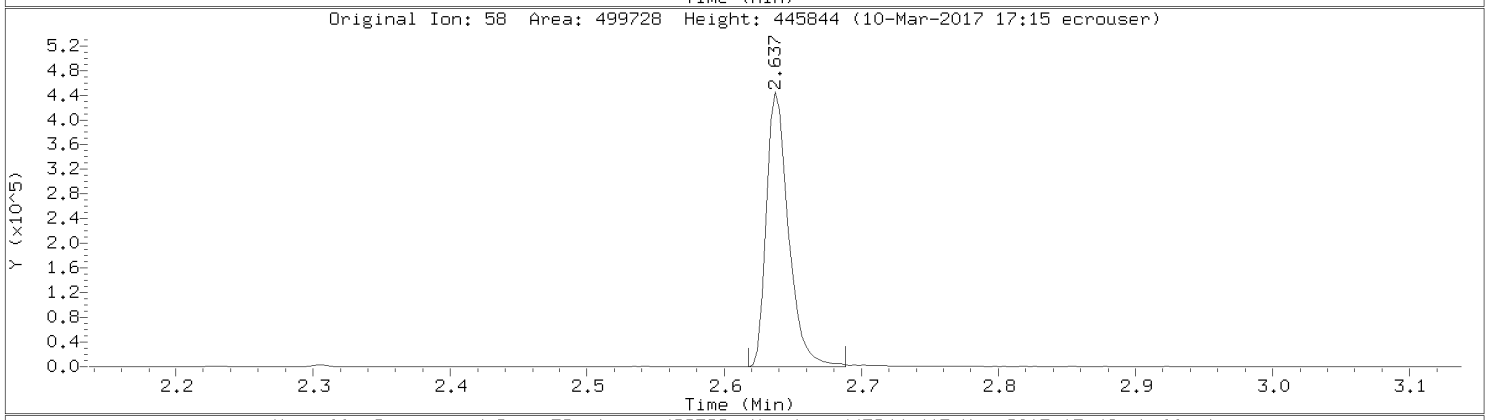


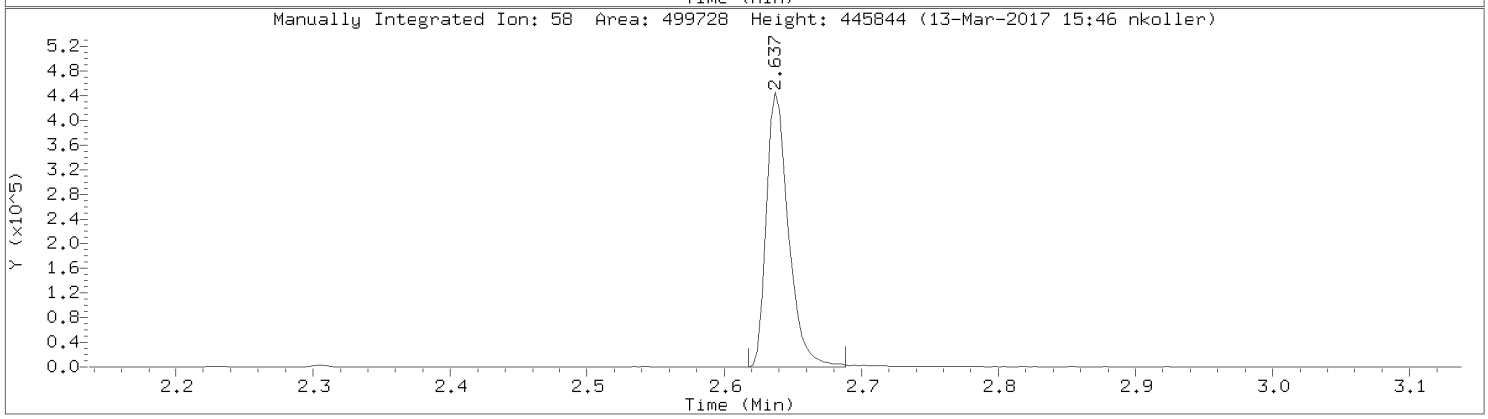
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06905.d
Injection Date: 10-MAR-2017 16:54
Instrument: 10airD.i
Lab Sample ID: 10380372001

Compound: Acetone
CAS Number: 67-64-1



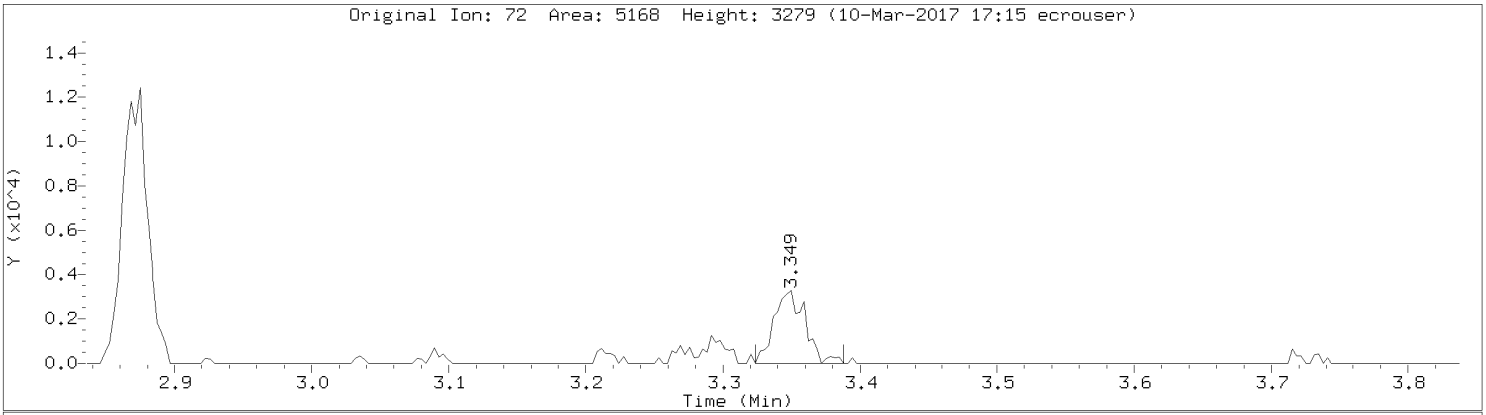


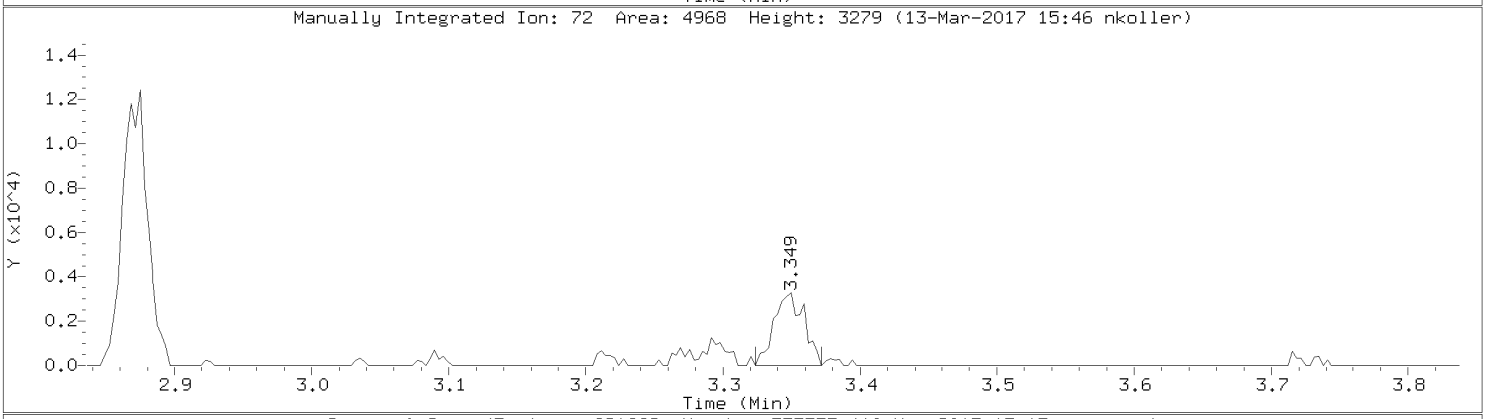


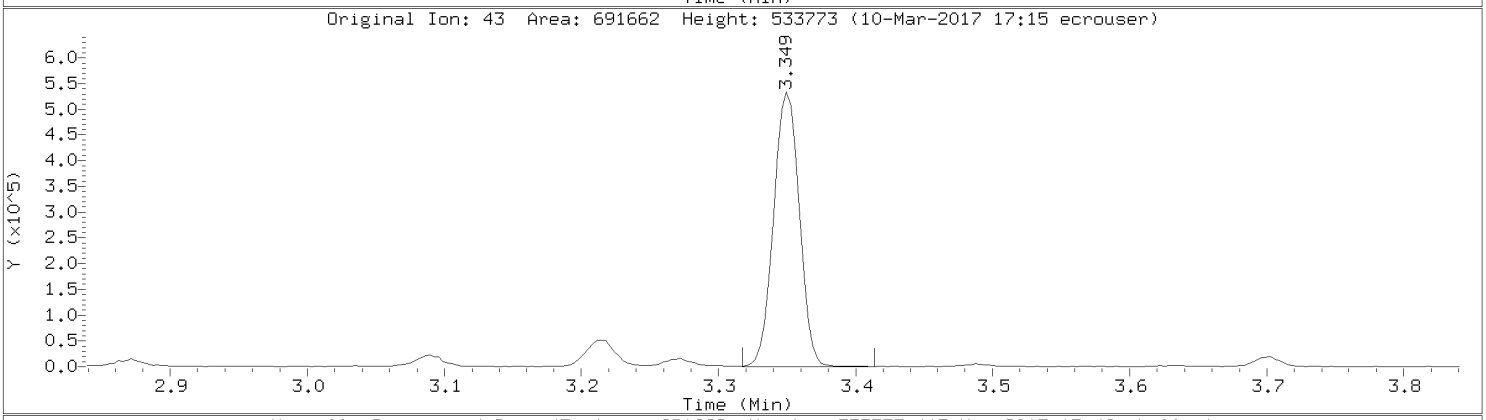


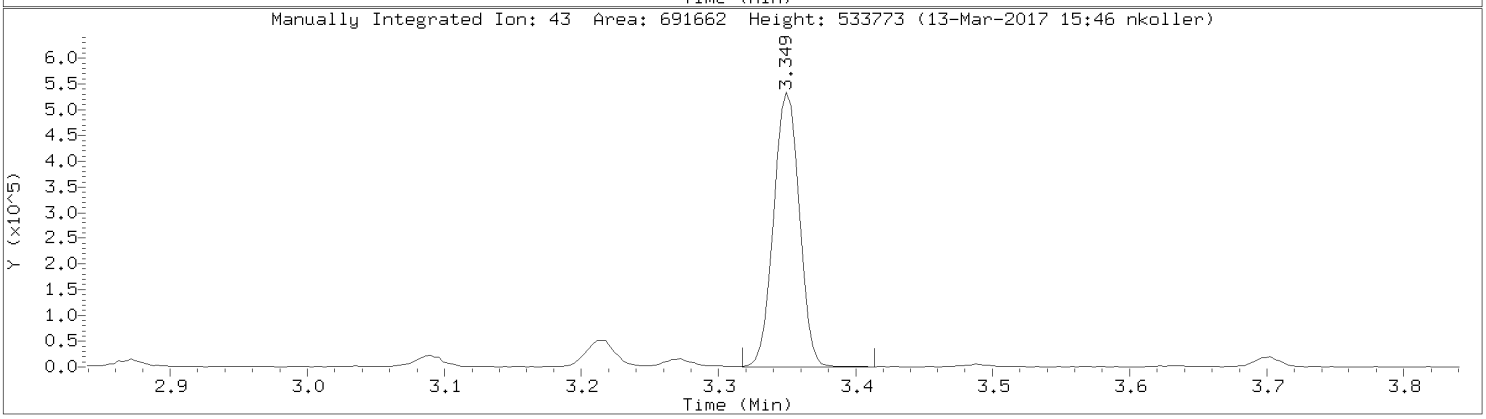
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06905.d
Injection Date: 10-MAR-2017 16:54
Instrument: 10airD.i
Lab Sample ID: 10380372001

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



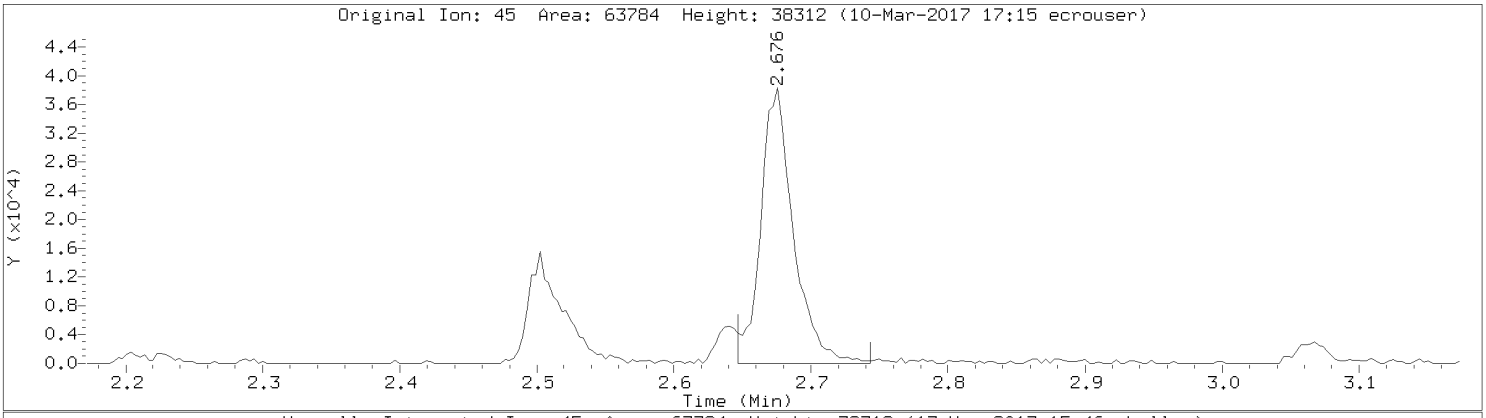


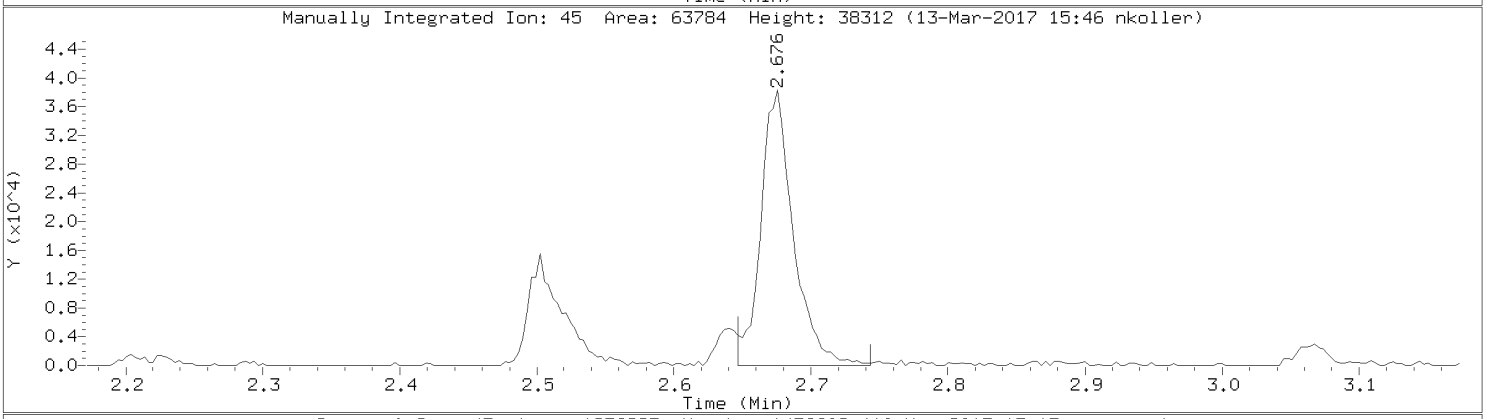


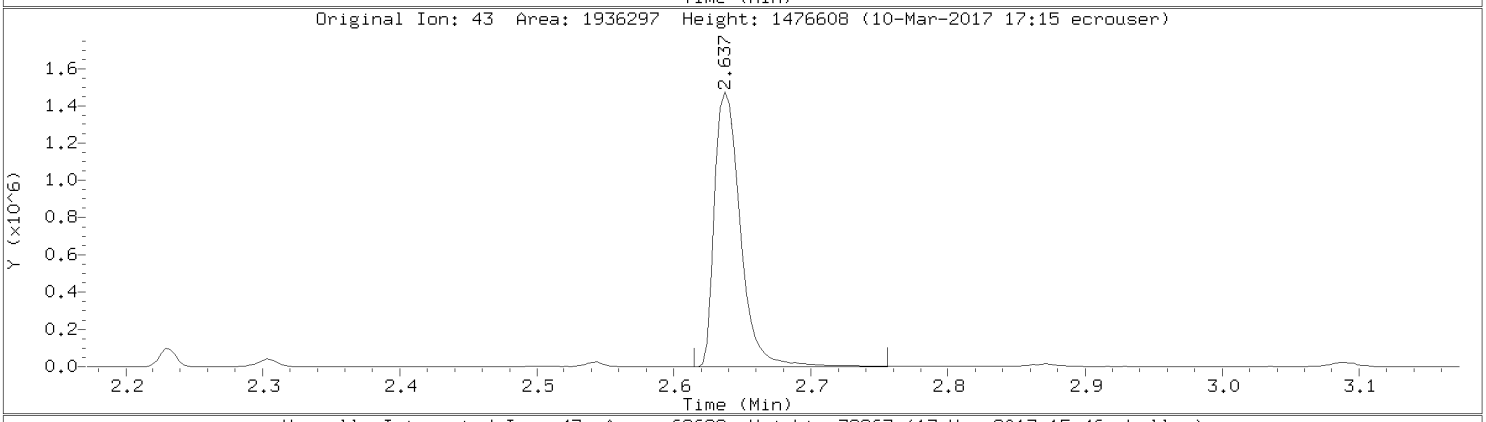


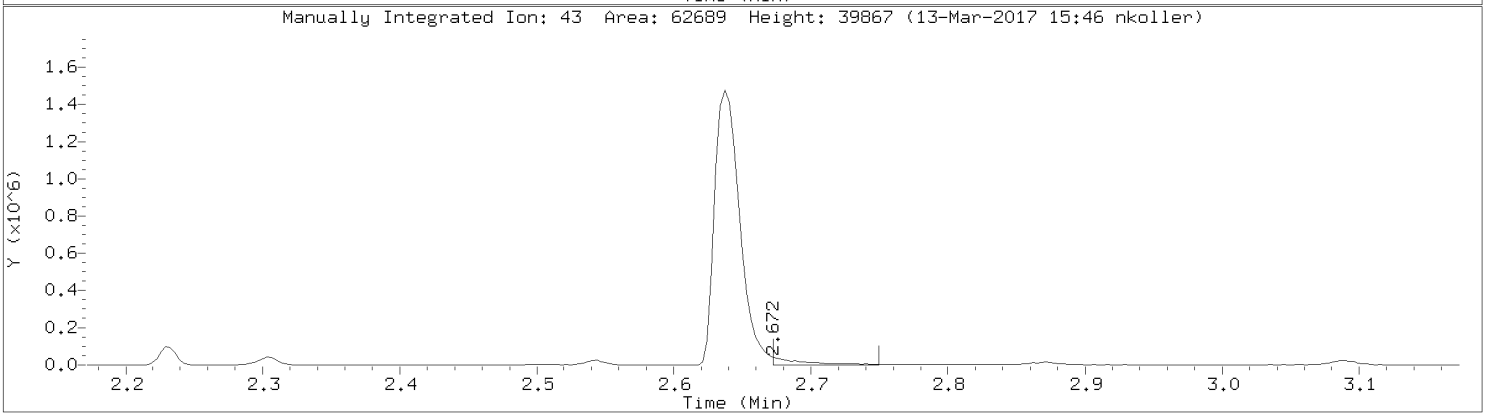
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06905.d
Injection Date: 10-MAR-2017 16:54
Instrument: 10airD.i
Lab Sample ID: 10380372001

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.d
Report Date: 12-Mar-2017 10:56

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07030.d
Lab Smp Id: 10380372001
Inj Date : 12-MAR-2017 01:16
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 30
Dil Factor: 2.34500
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.345	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.130	2.155	(0.502)	9355	1.33097	3.12(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.165	(0.507)	8436	0.13180	0.309	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.508	2.521	(0.591)	4642	1.03853	2.44	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	2.544	2.592	(0.600)	9324	0.33428	0.784(Q)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.643	2.653	(0.623)	59970	0.90468	2.12	
19	Isopropyl Alcohol	45	2.685	2.688	(0.633)	11152	0.49172	1.15(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.d
Report Date: 12-Mar-2017 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						
	25 Methylene chloride	49	2.861	2.871	(0.675)	171321	5.52896	13.0	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.266	3.275	(0.770)	1385960	8.96710	8.97	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	3.349	3.352	(0.790)	24919	0.74457	1.75(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	45 Carbon tetrachloride	117	Compound Not Detected.						(D)
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	2911380	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	4.565	4.568	(1.076)	2604	0.07405	0.174(QH)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.563	(1.311)	2737106	9.38245	9.38	
	60 Toluene	91	5.634	5.631	(1.328)	8249	0.09584	0.225	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.401	6.404	(0.911)	3829	0.08190	0.192(H)	
*	67 Chlorobenzene - d5	117	7.026	7.030	(1.000)	2114819	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.309	7.315	(1.040)	3902	0.04205	0.0986(a)	
	70 m&p-Xylene	91	7.453	7.460	(1.061)	10924	0.02359	0.0553(a)	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	Compound Not Detected.						(D)
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	7.928	7.928	(1.128)	6656	0.08701	0.204	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.d
Report Date: 12-Mar-2017 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	9.314	9.318	(1.326)	7361	0.05943	0.139	
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.825	9.825	(1.398)	15394	0.10041	0.235	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1225302	9.45652	9.46	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.973	12.960	(1.846)	2607	0.11764	0.276	(M)
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.d
Report Date: 12-Mar-2017 10:56

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07030.d
Lab Smp Id: 10380372001
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

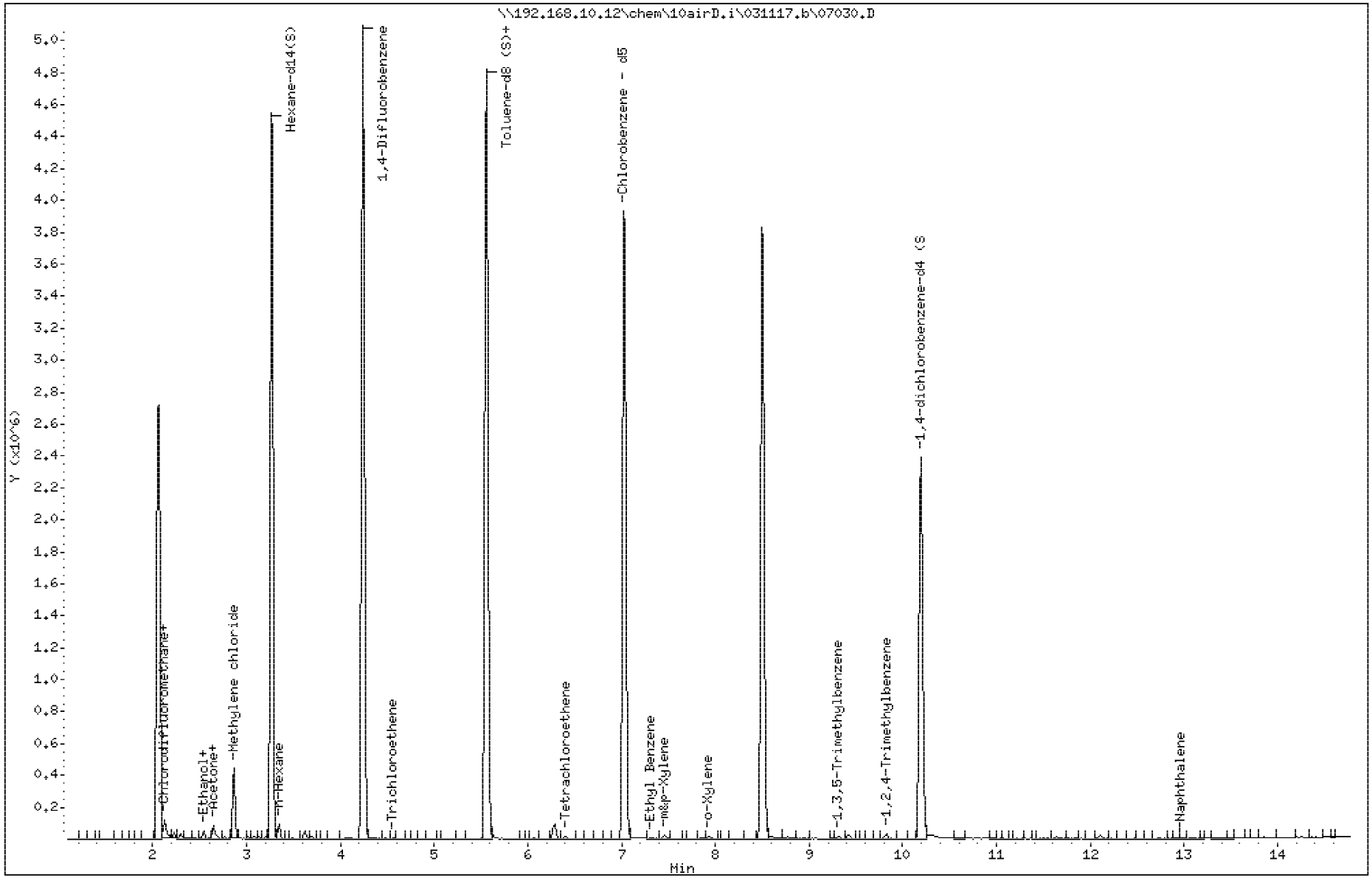
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	2911380	-23.13
67 Chlorobenzene - d	3280875	1968525	4593225	2114819	-35.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D
Date : 12-MAR-2017 01:16
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

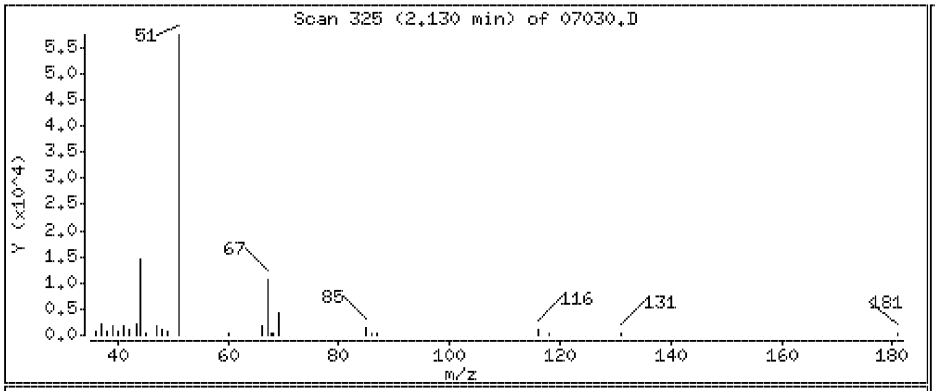
Operator: DR1

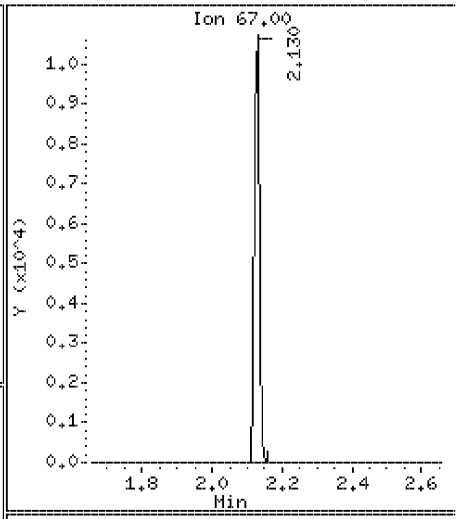
Column phase: J&W DB-5

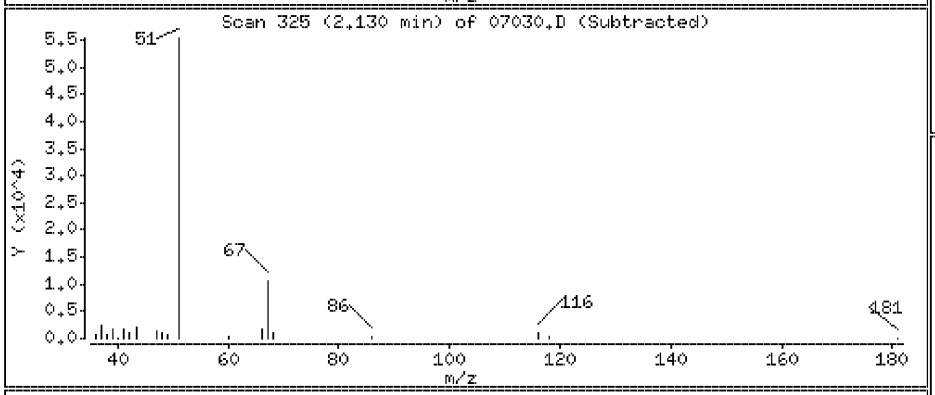
Column diameter: 0.32

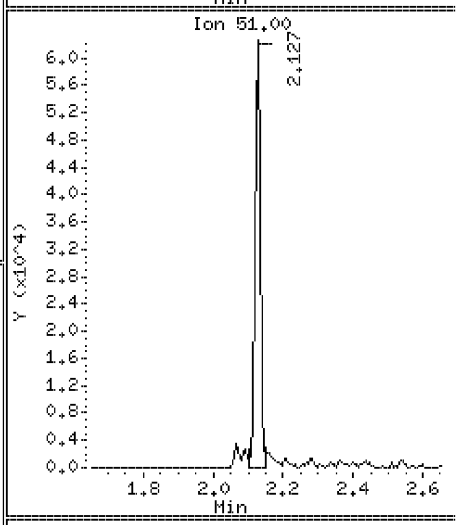
3 Chlorodifluoromethane

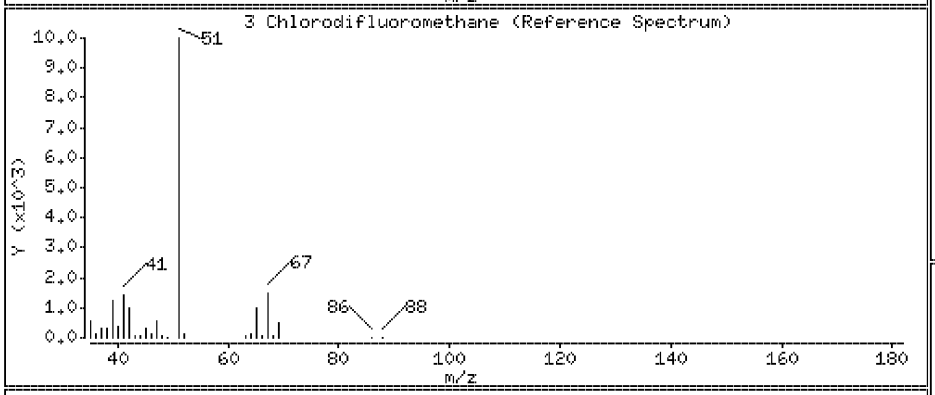
Concentration: 3.12 ppbv

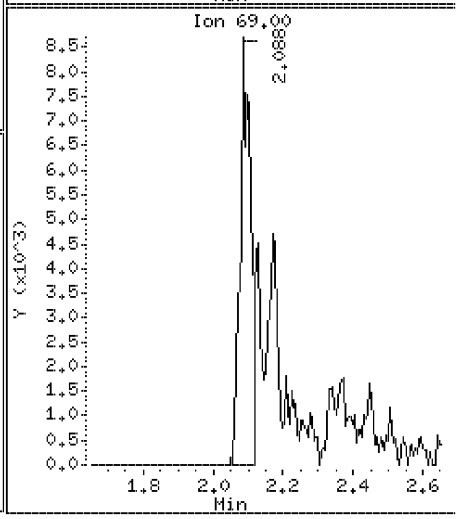


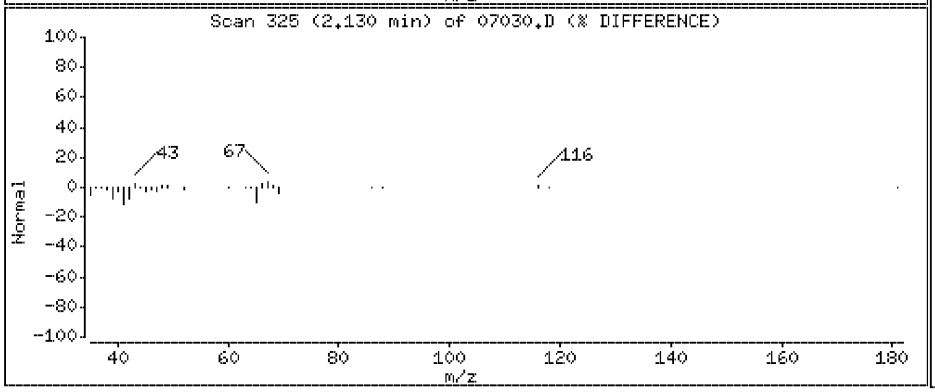












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

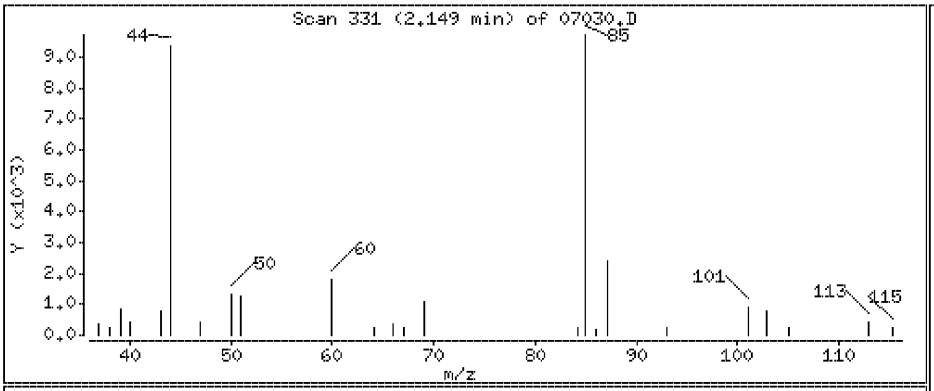
Operator: DR1

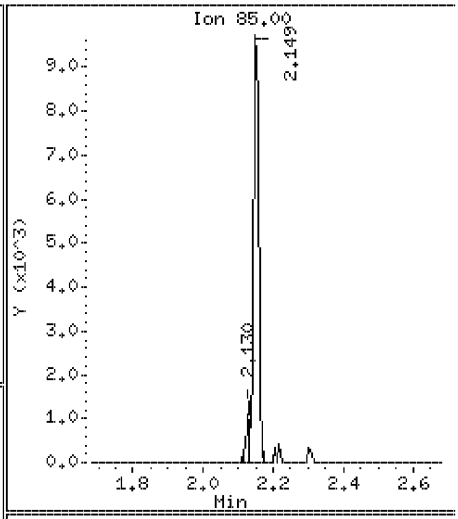
Column phase: J&W DB-5

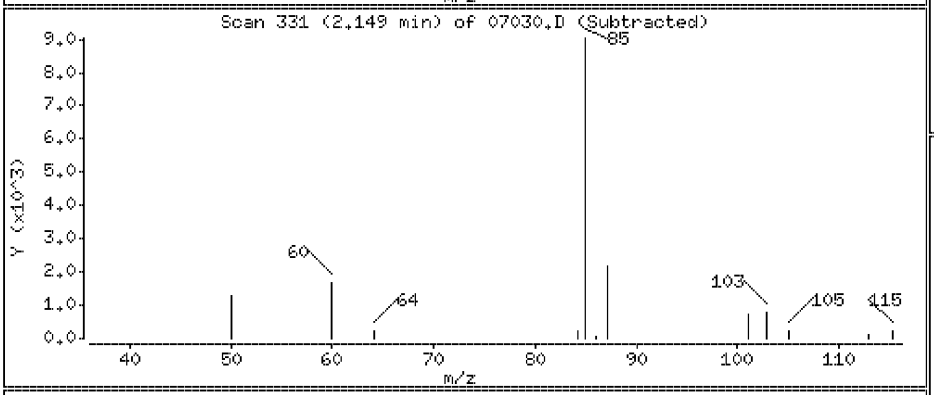
Column diameter: 0.32

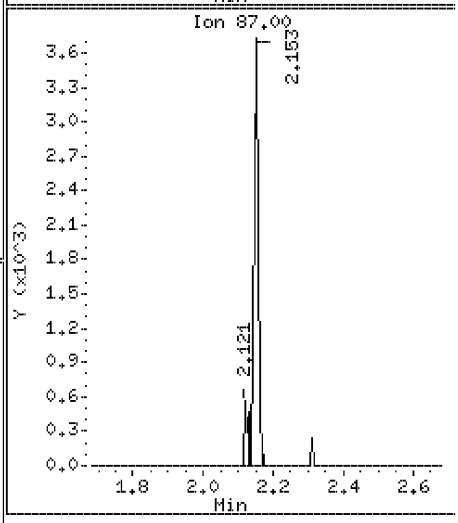
5 Dichlorodifluoromethane

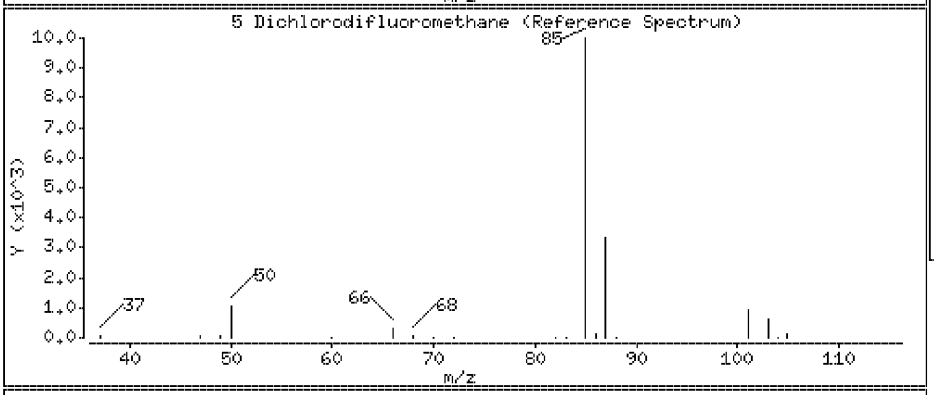
Concentration: 0.309 ppbv

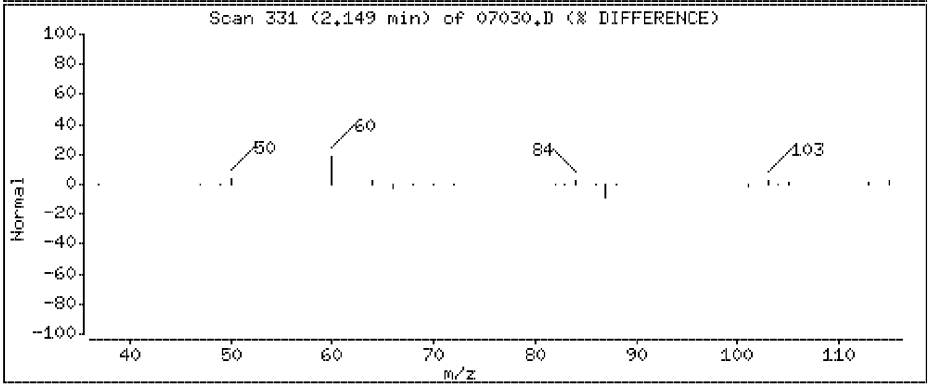












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

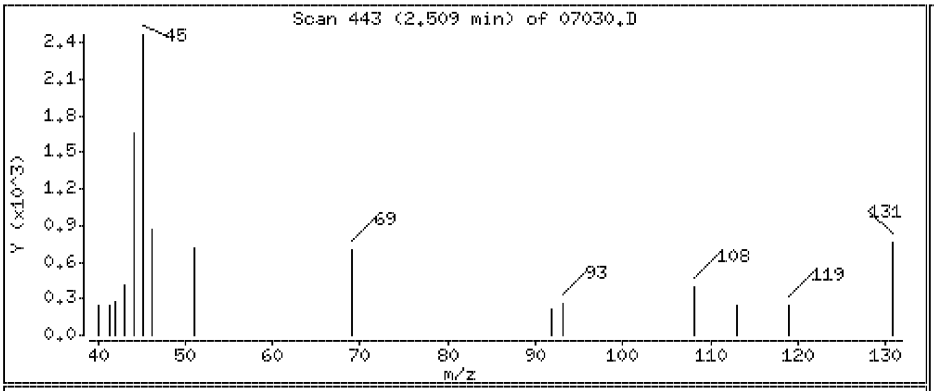
Operator: DR1

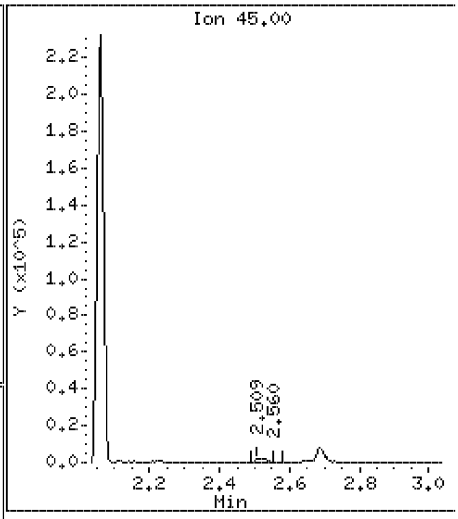
Column phase: J&W DB-5

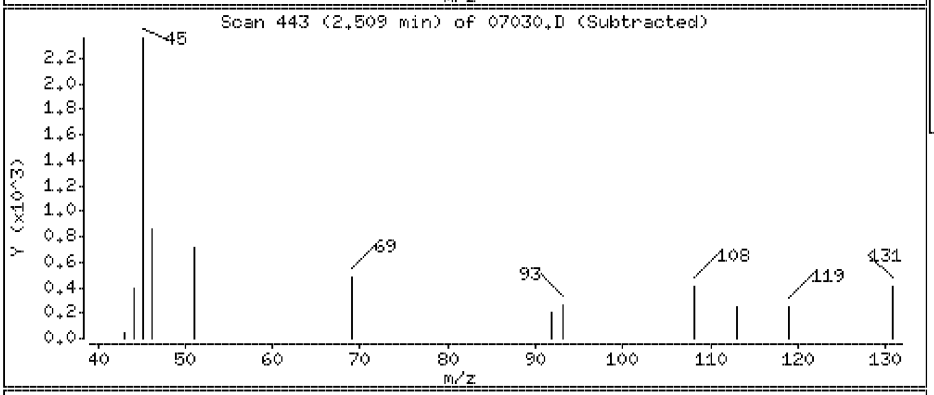
Column diameter: 0.32

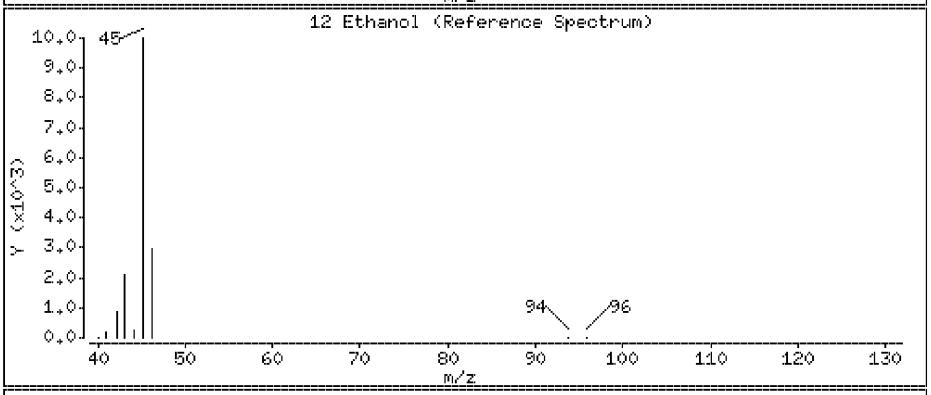
12 Ethanol

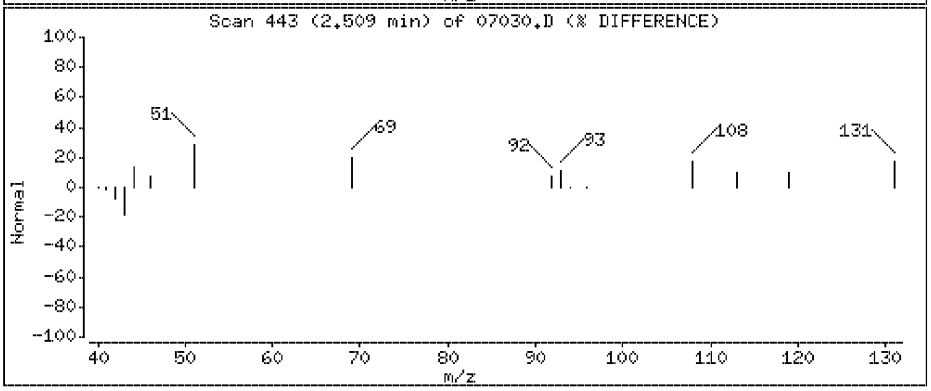
Concentration: 2.44 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

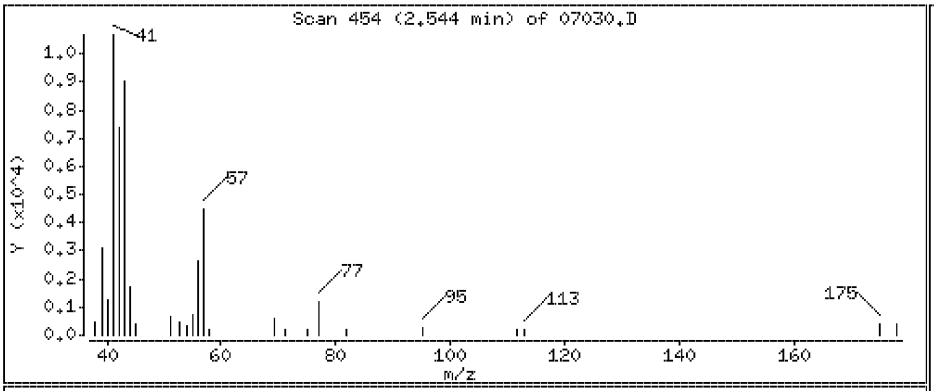
Operator: DR1

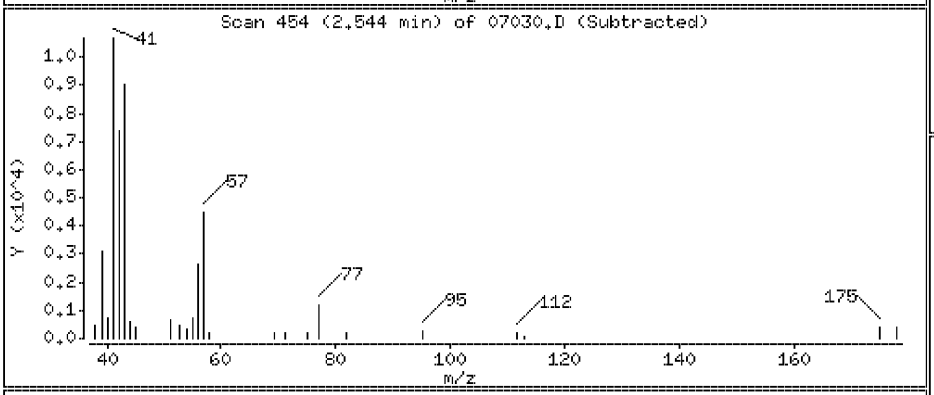
Column phase: J&W DB-5

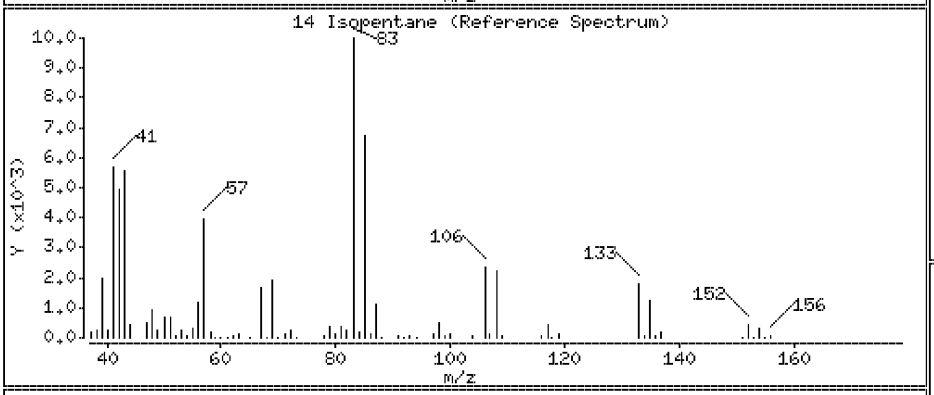
Column diameter: 0.32

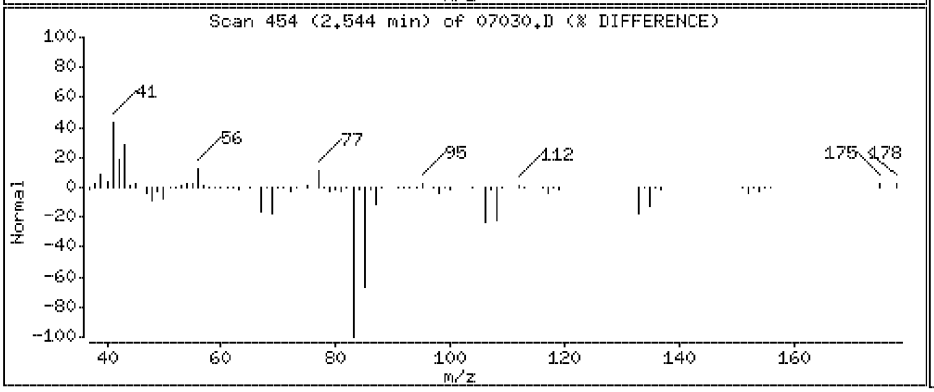
14 Isopentane

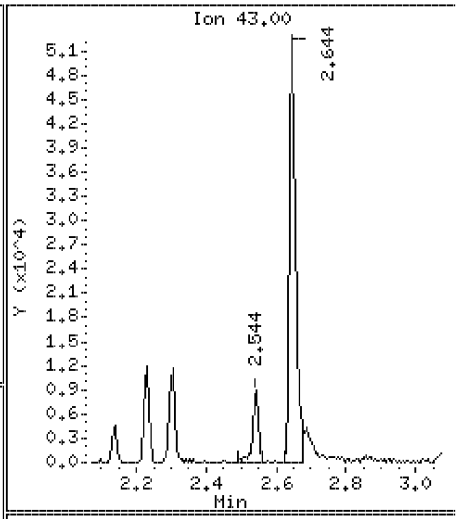
Concentration: 0.784 ppbv

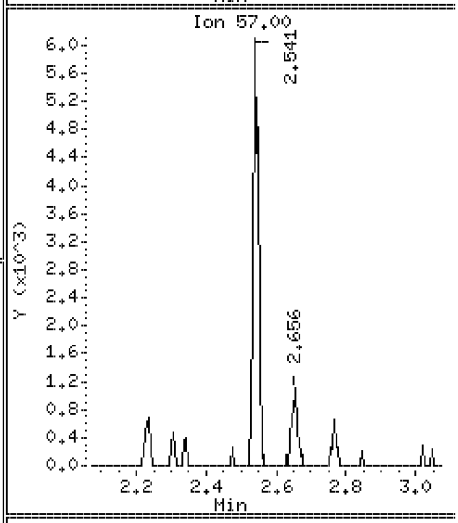


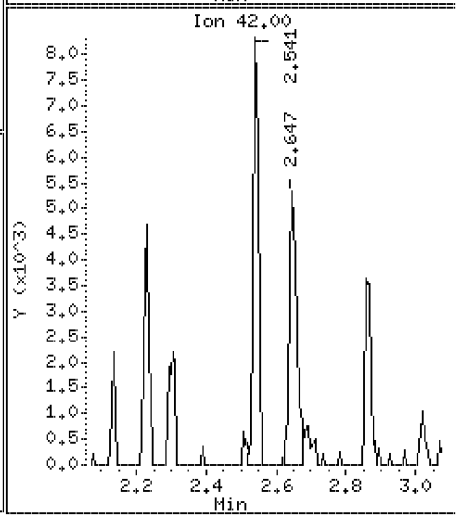












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

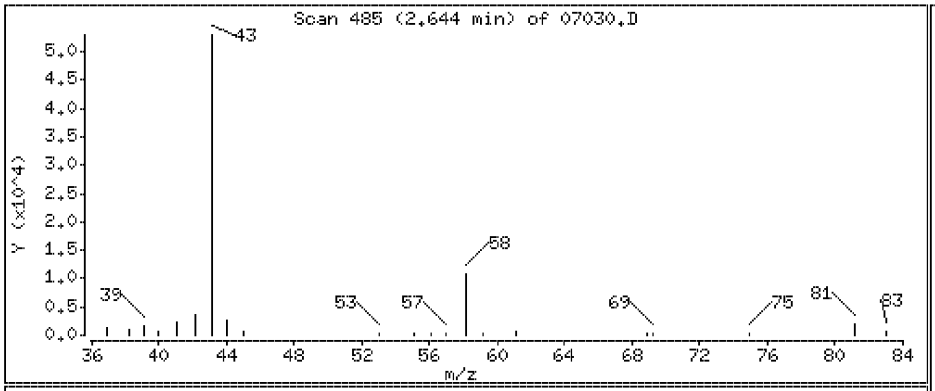
Operator: DR1

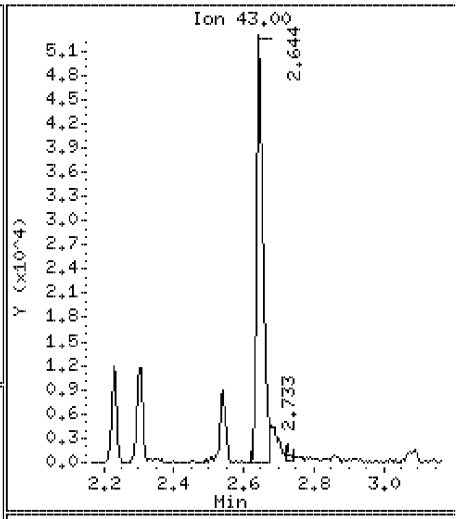
Column phase: J&W DB-5

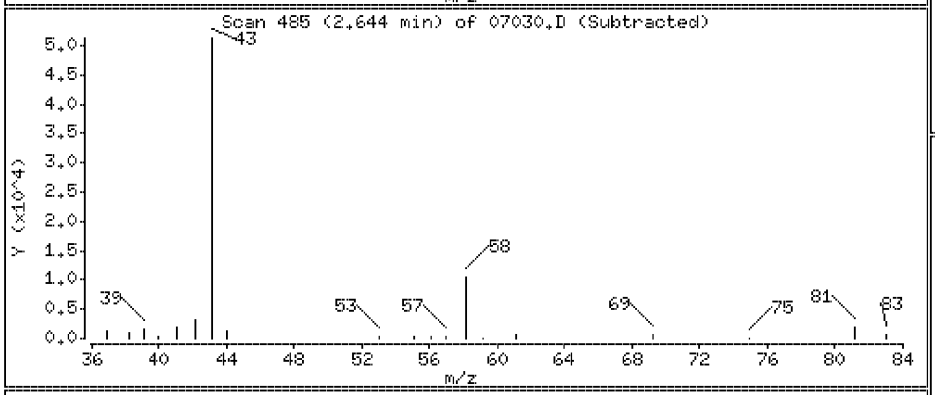
Column diameter: 0.32

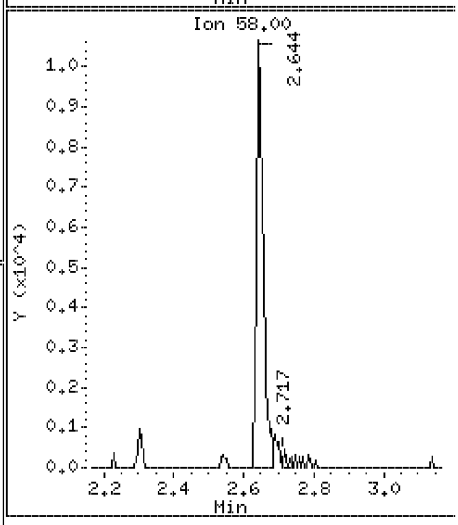
18 Acetone

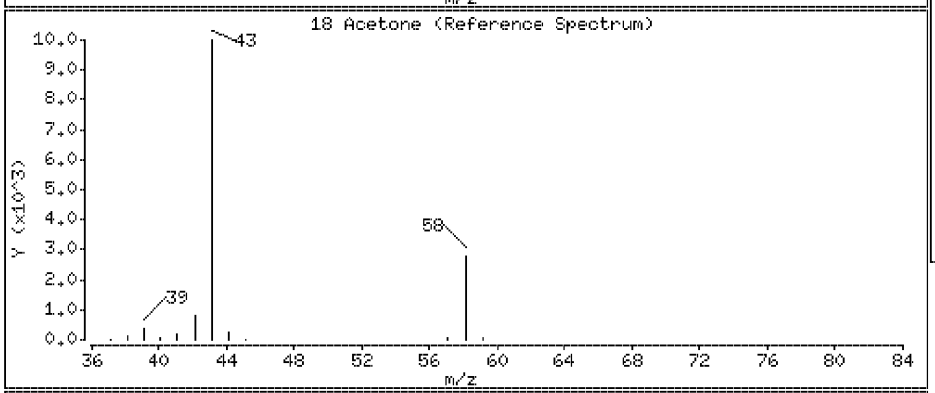
Concentration: 2.12 ppbv

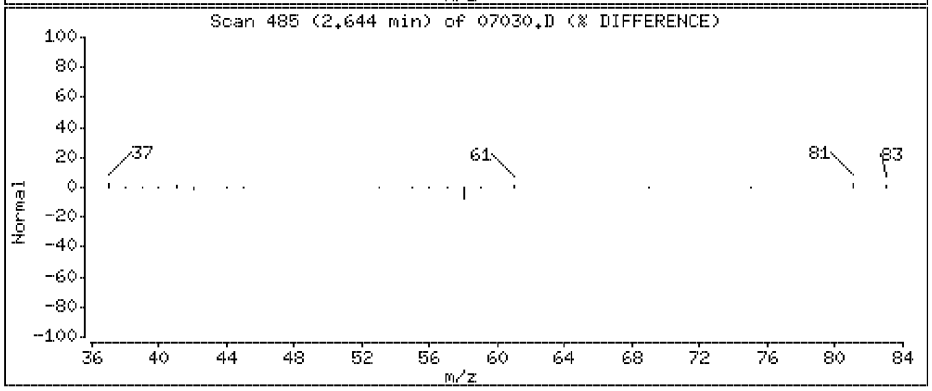












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

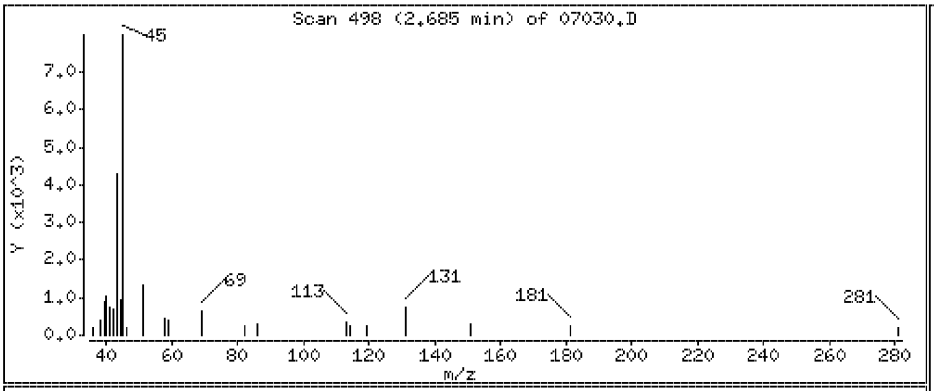
Operator: DR1

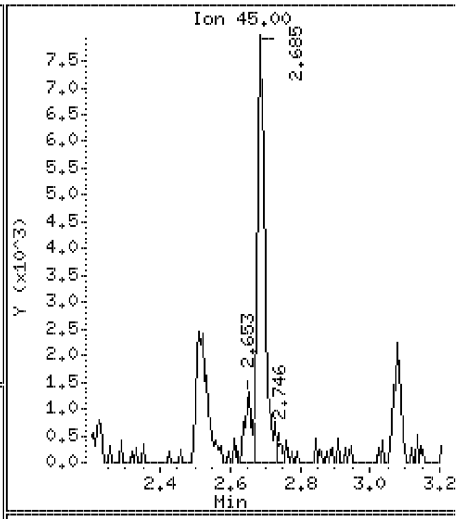
Column phase: J&W DB-5

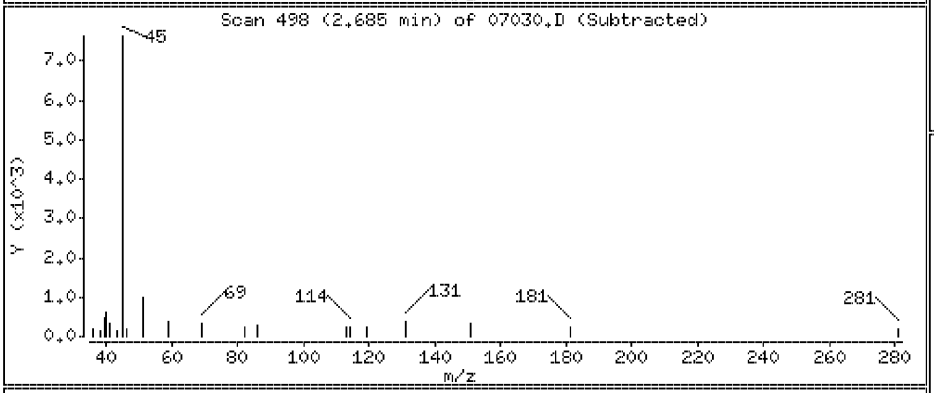
Column diameter: 0.32

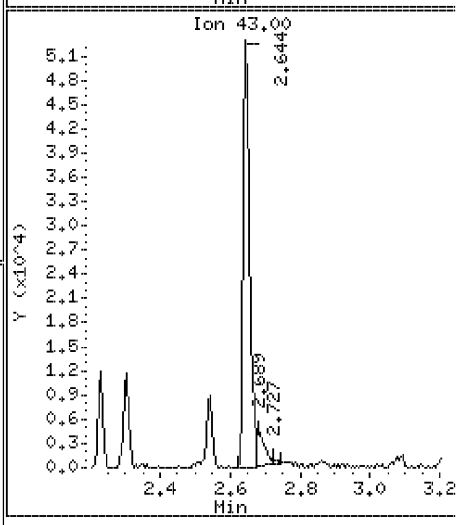
19 Isopropyl Alcohol

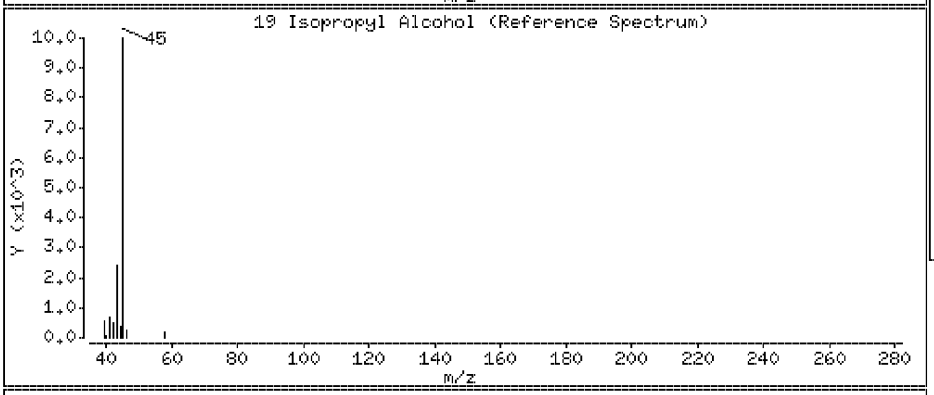
Concentration: 1.15 ppbv

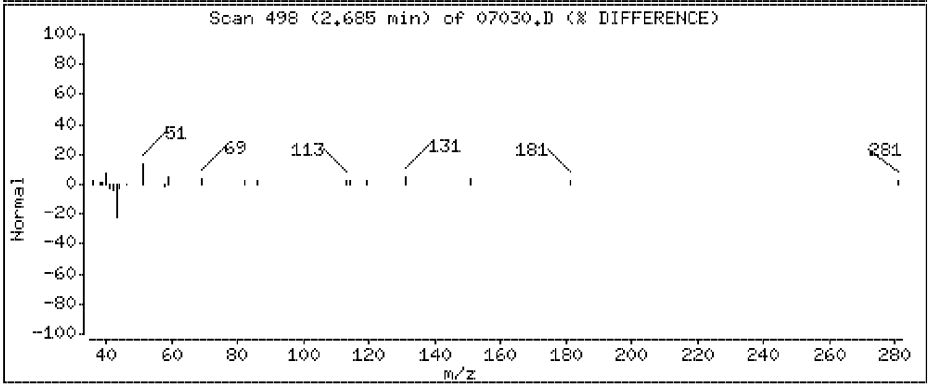












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

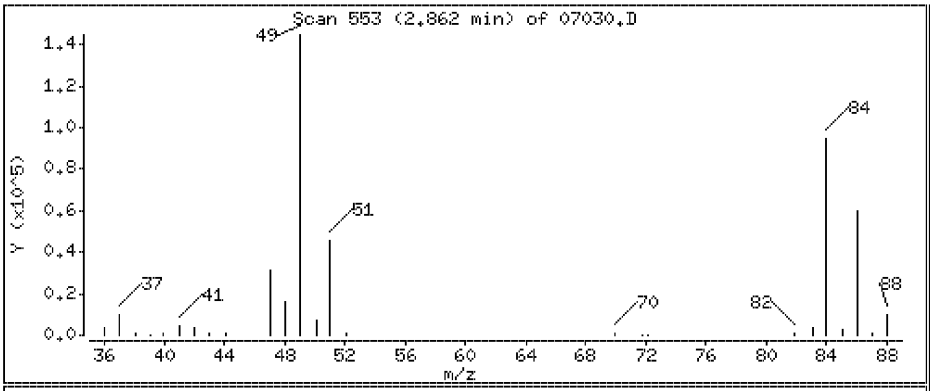
Operator: DR1

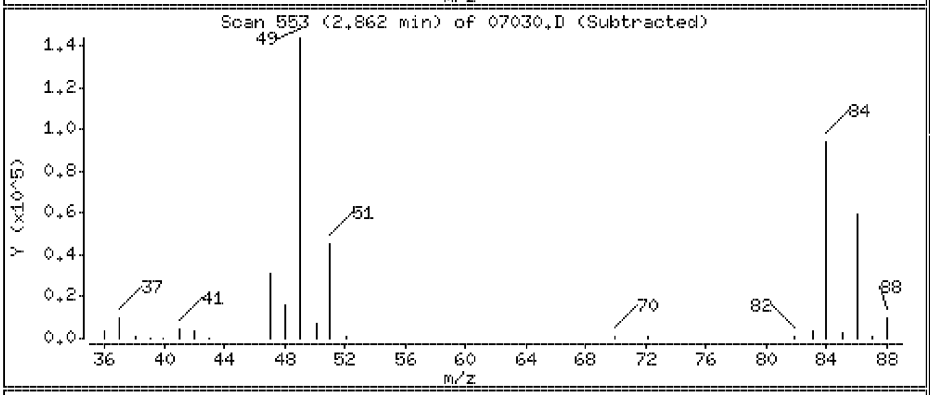
Column phase: J&W DB-5

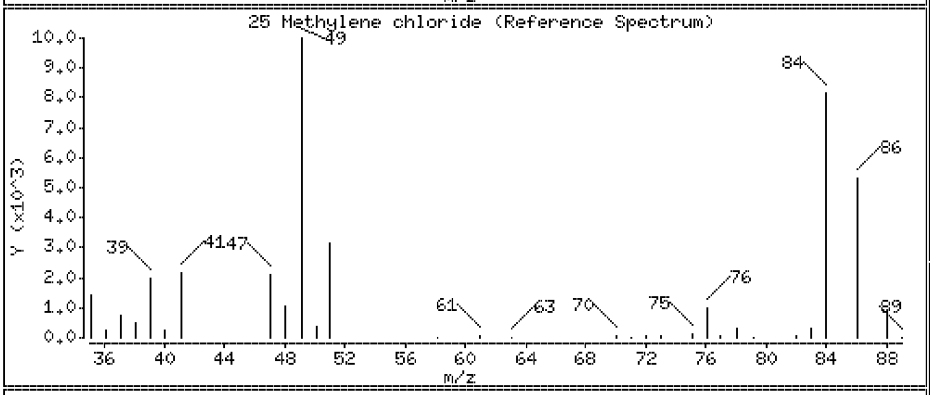
Column diameter: 0.32

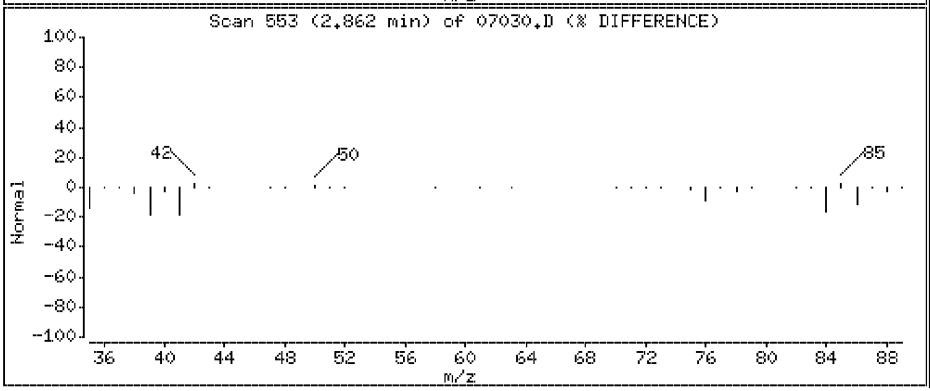
25 Methylene chloride

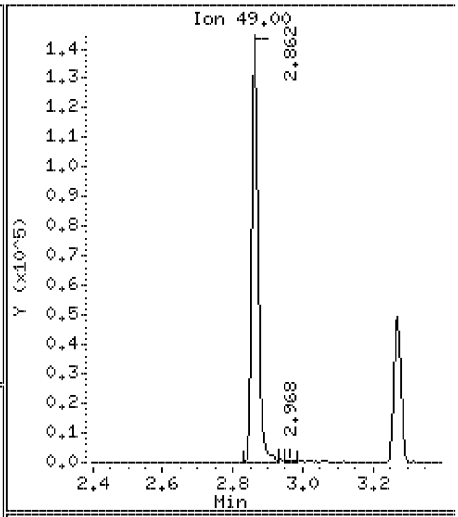
Concentration: 13.0 ppbv

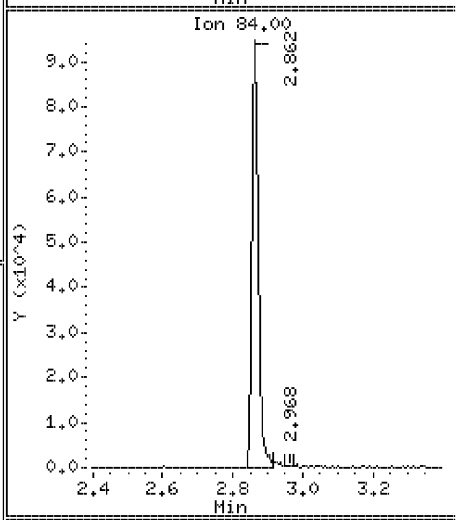


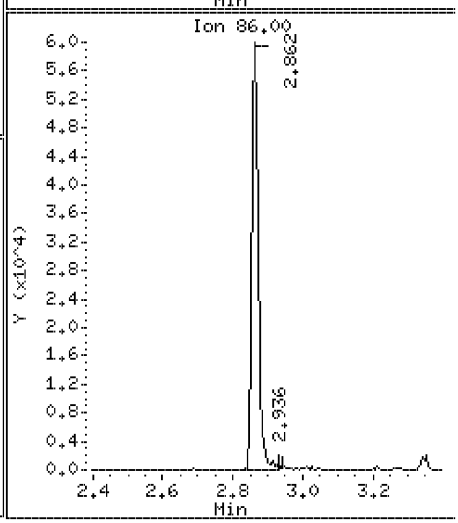












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

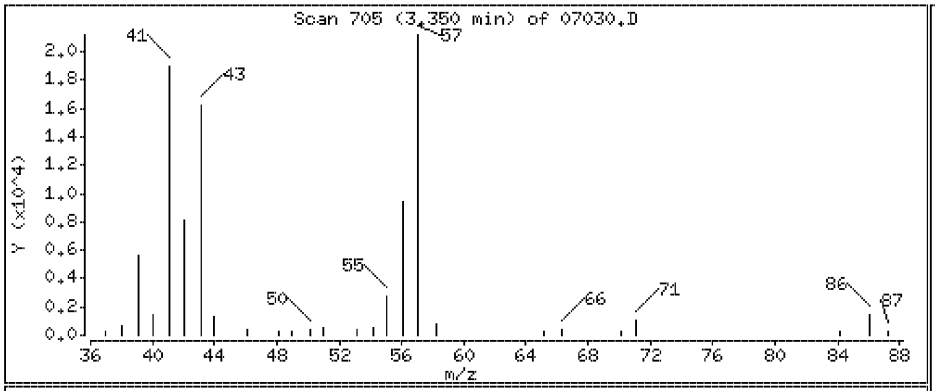
Operator: DR1

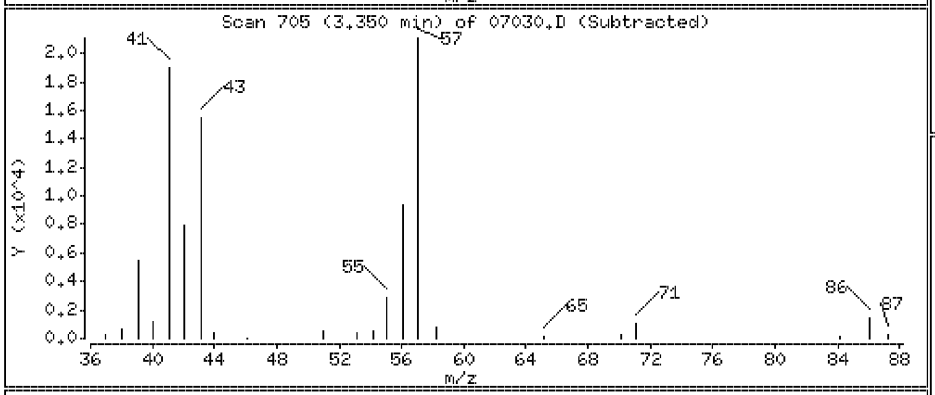
Column phase: J&W DB-5

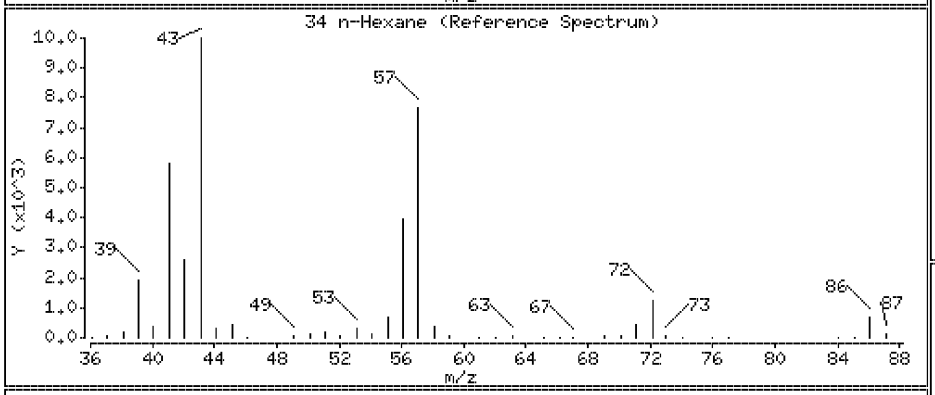
Column diameter: 0.32

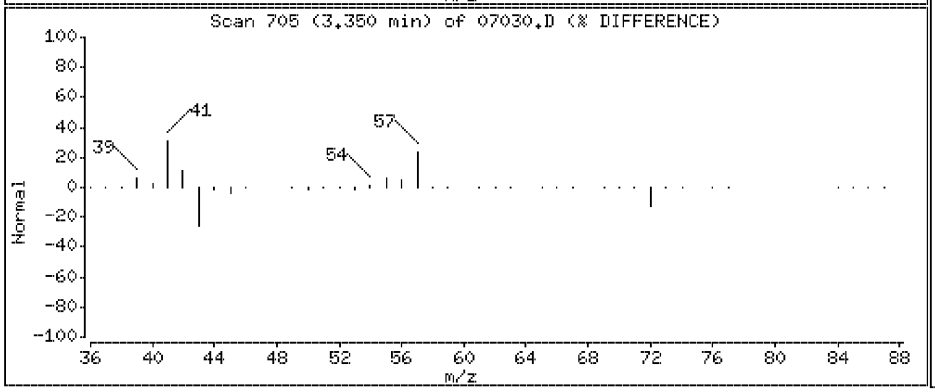
34 n-Hexane

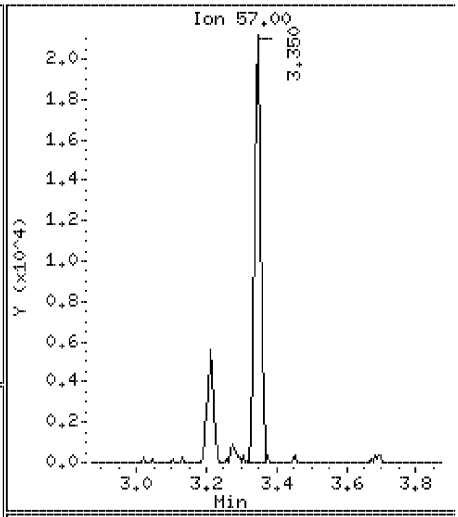
Concentration: 1.75 ppbv

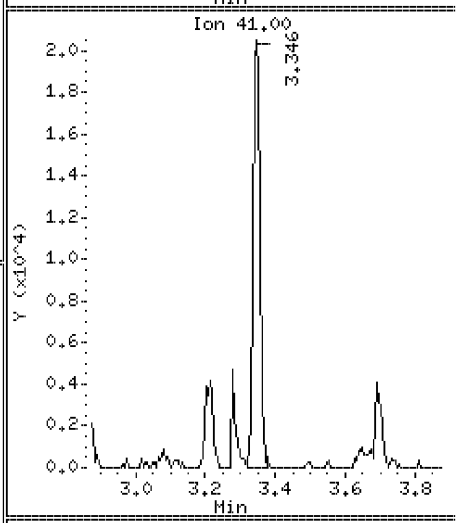


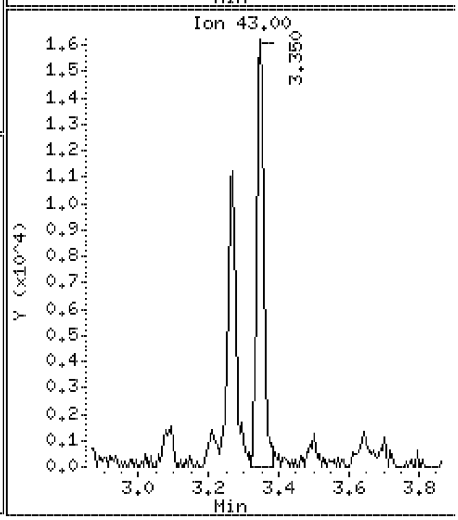












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

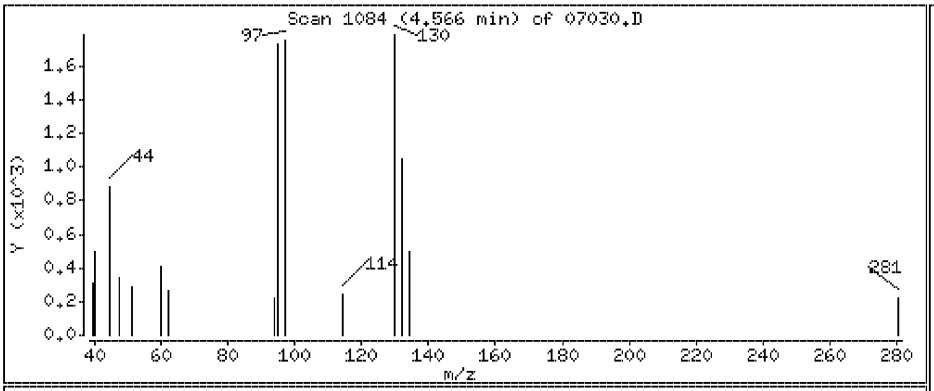
Operator: DR1

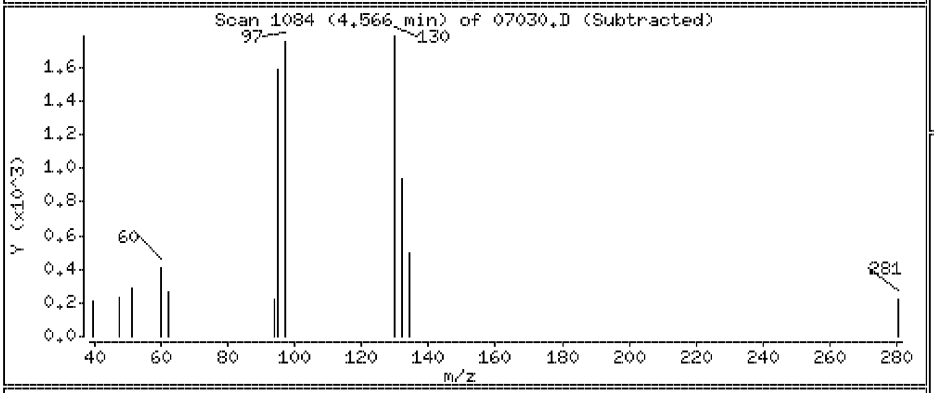
Column phase: J&W DB-5

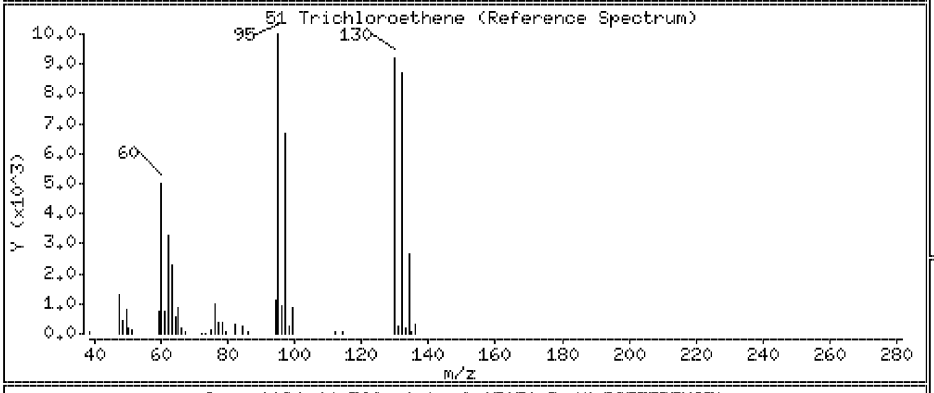
Column diameter: 0.32

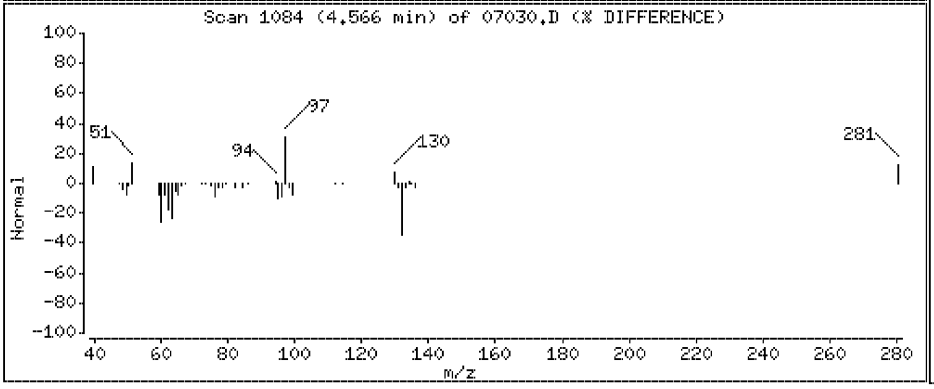
51 Trichloroethene

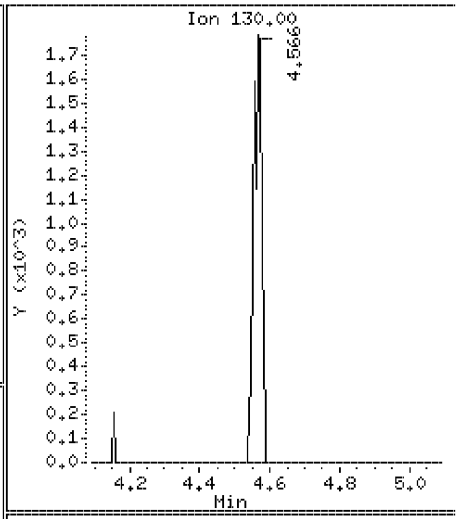
Concentration: 0.174 ppbv

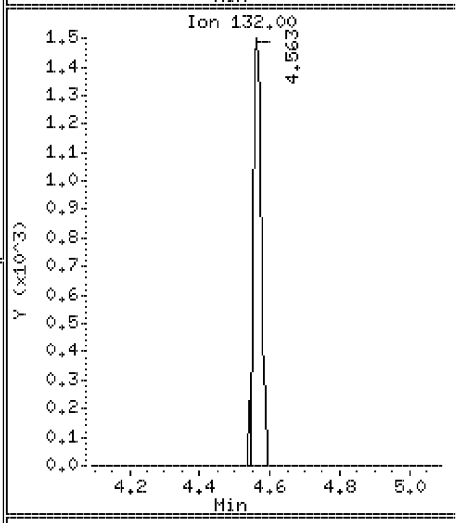


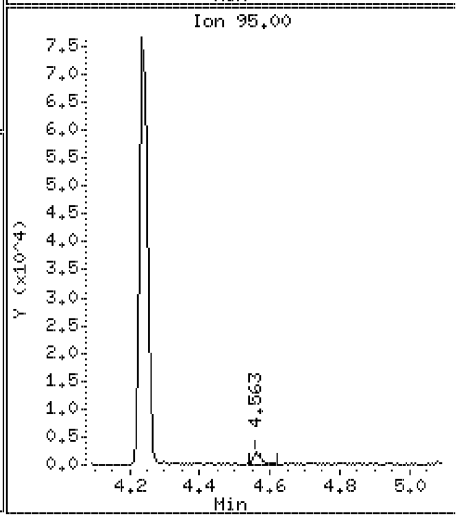












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

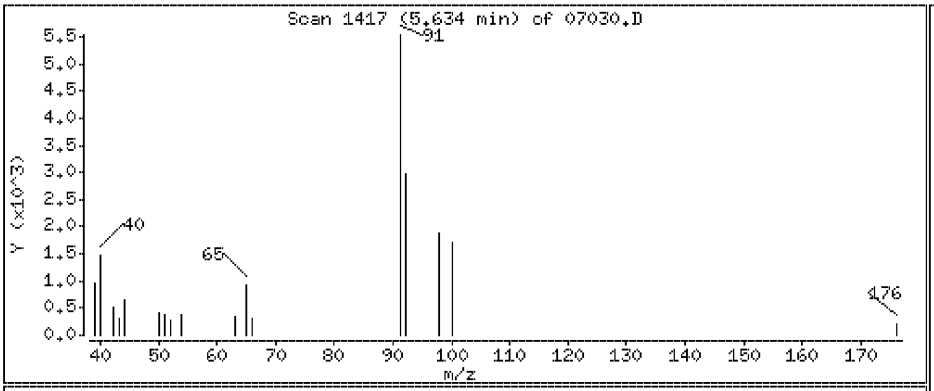
Operator: DR1

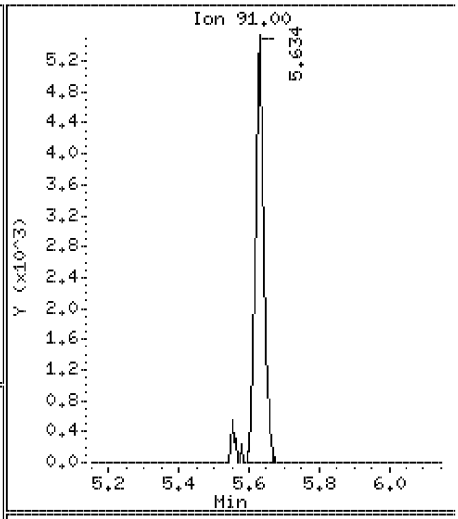
Column phase: J&W DB-5

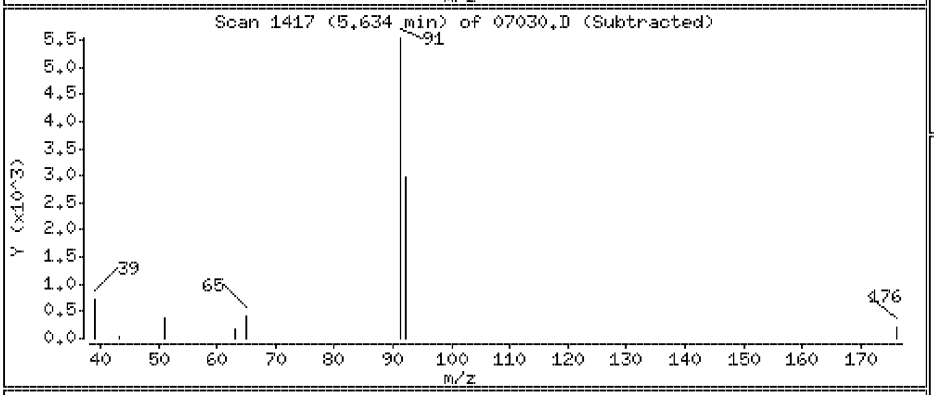
Column diameter: 0.32

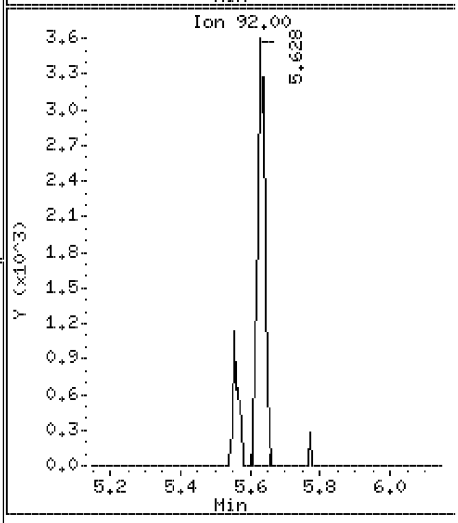
60 Toluene

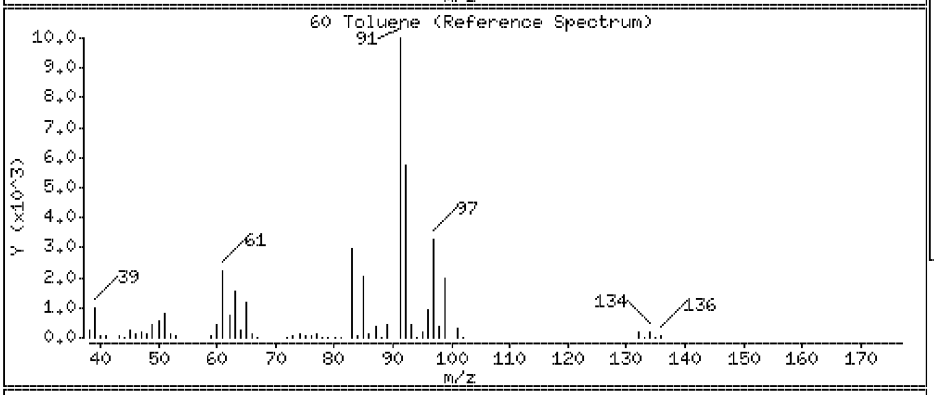
Concentration: 0.225 ppbv

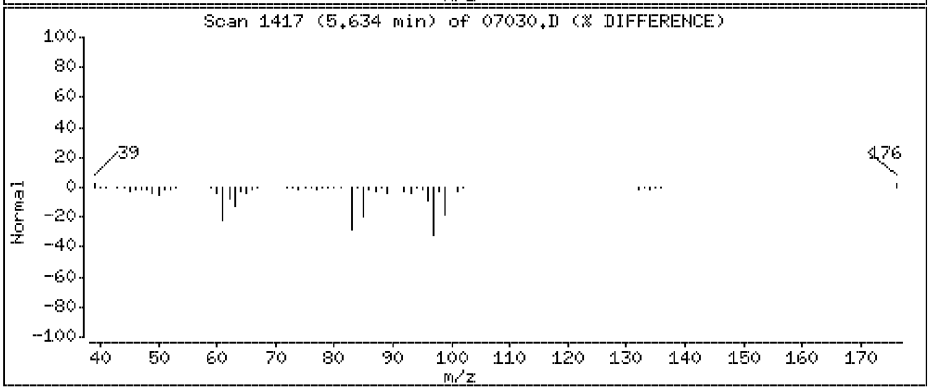












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

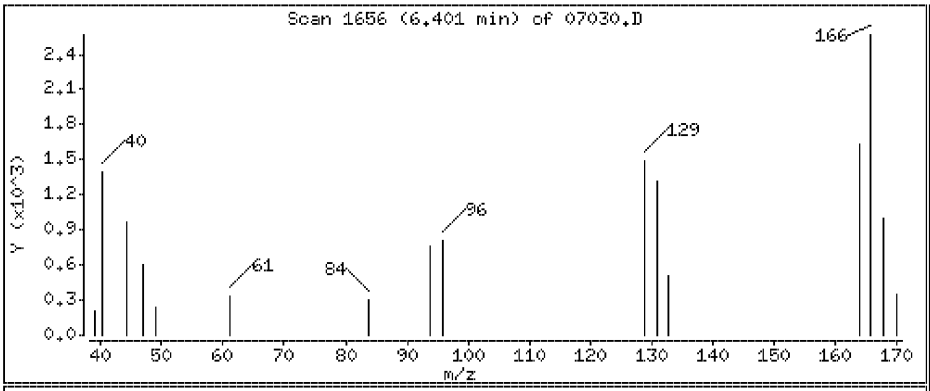
Operator: DR1

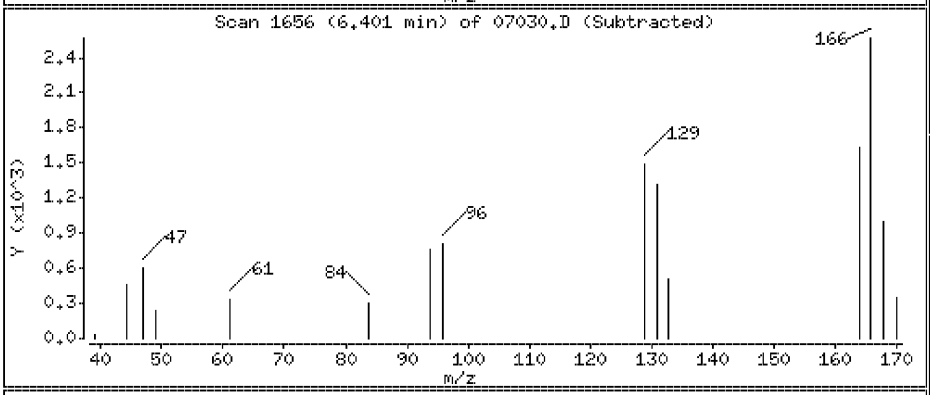
Column phase: J&W DB-5

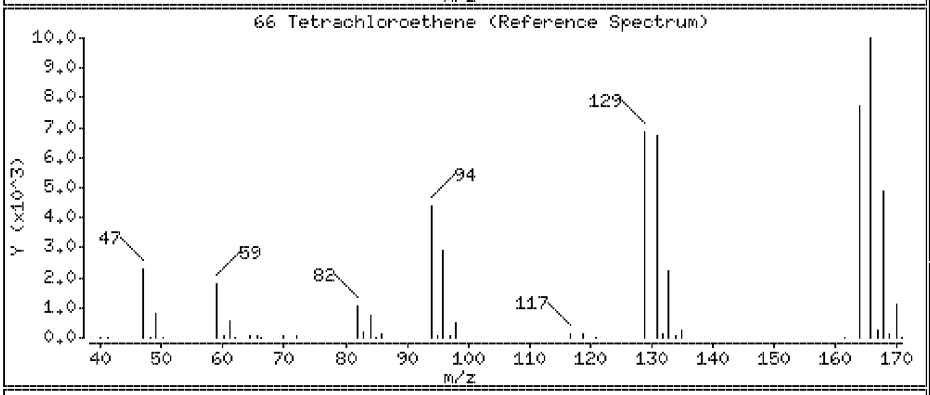
Column diameter: 0.32

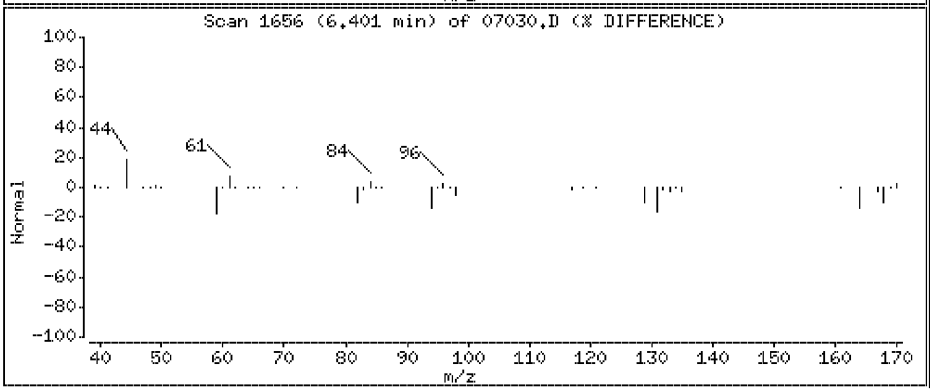
66 Tetrachloroethene

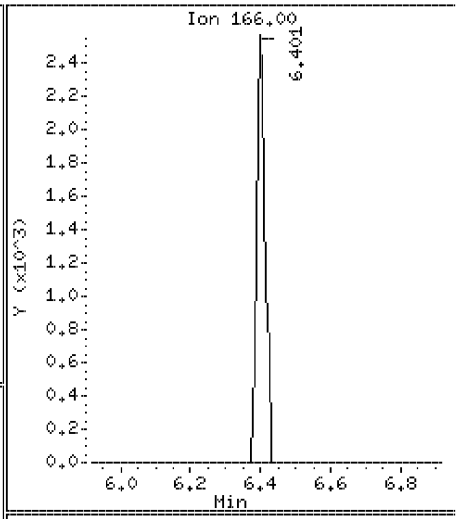
Concentration: 0.192 ppbv

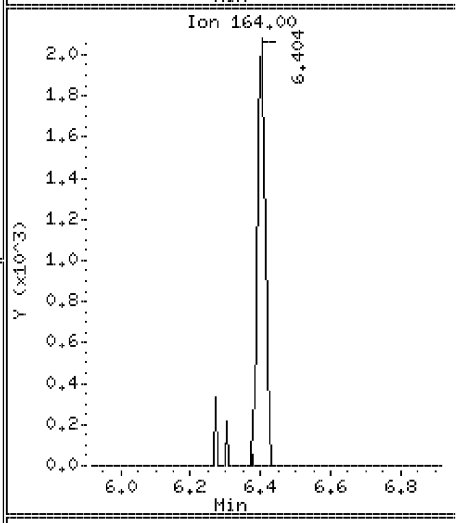


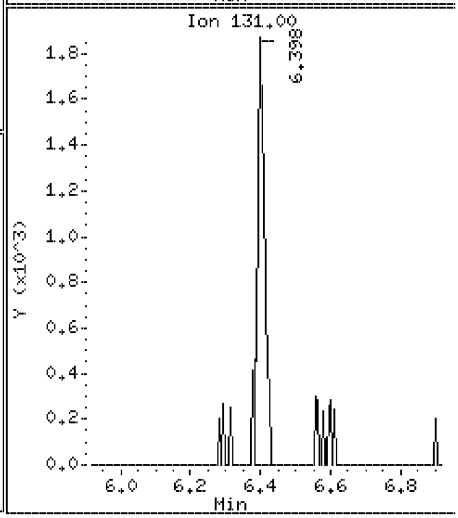












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

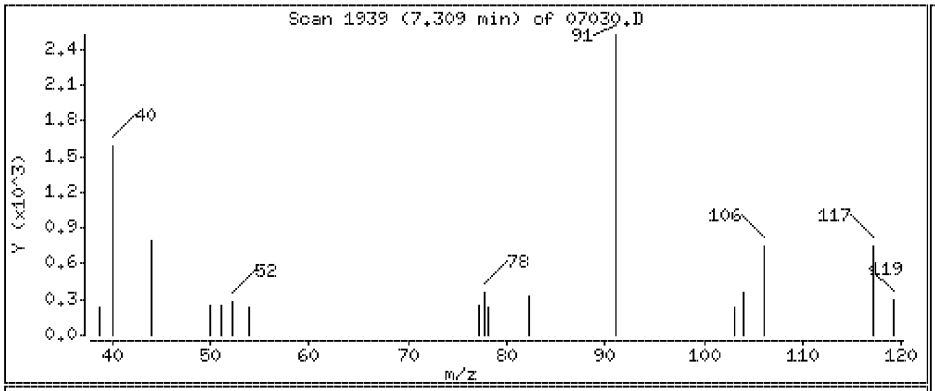
Operator: DR1

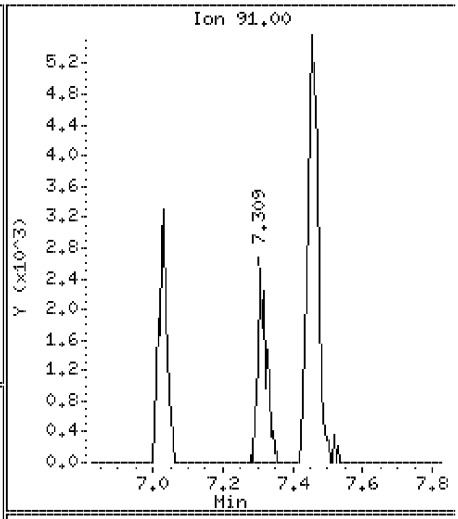
Column phase: J&W DB-5

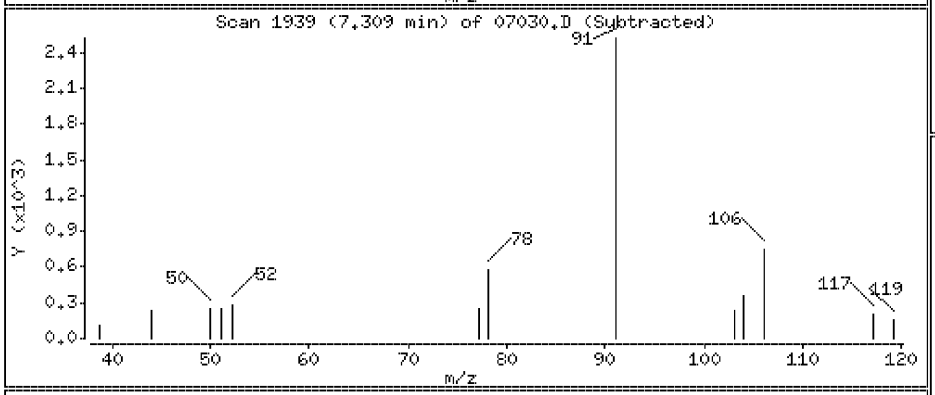
Column diameter: 0.32

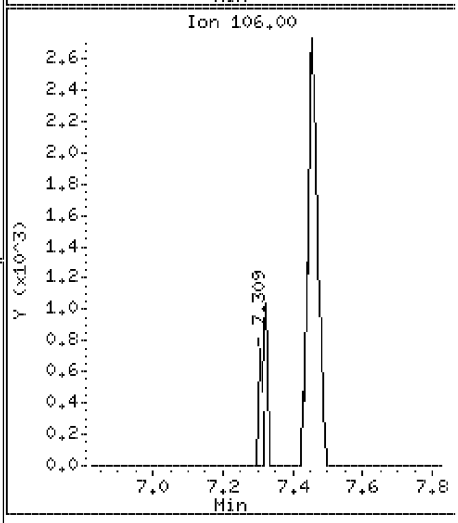
69 Ethyl Benzene

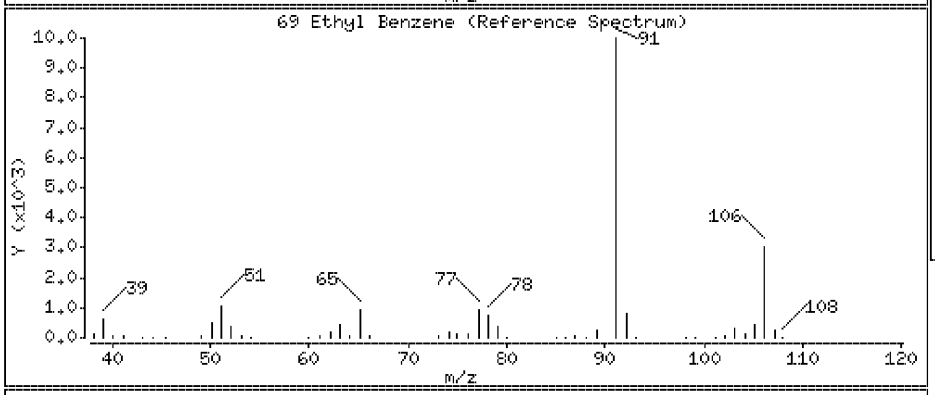
Concentration: 0.0986 ppbv

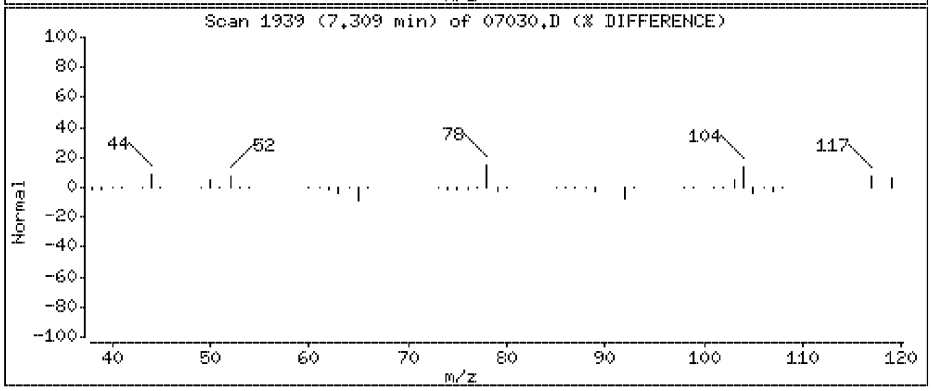












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

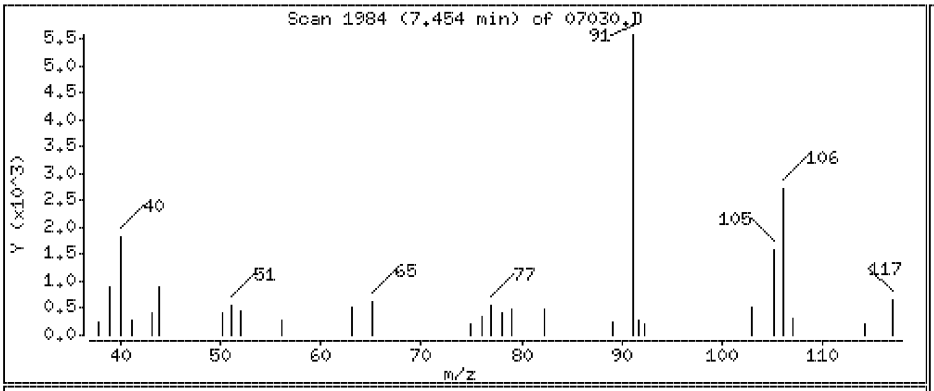
Operator: DR1

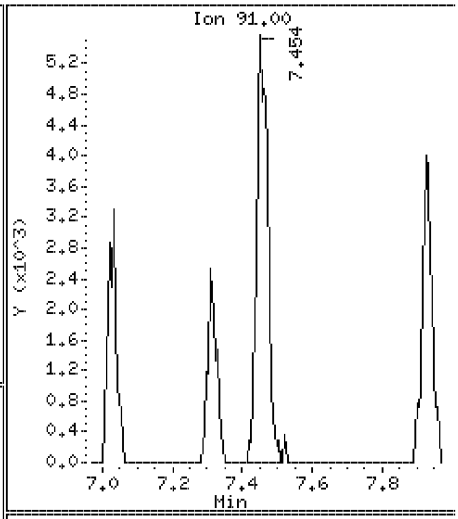
Column phase: J&W DB-5

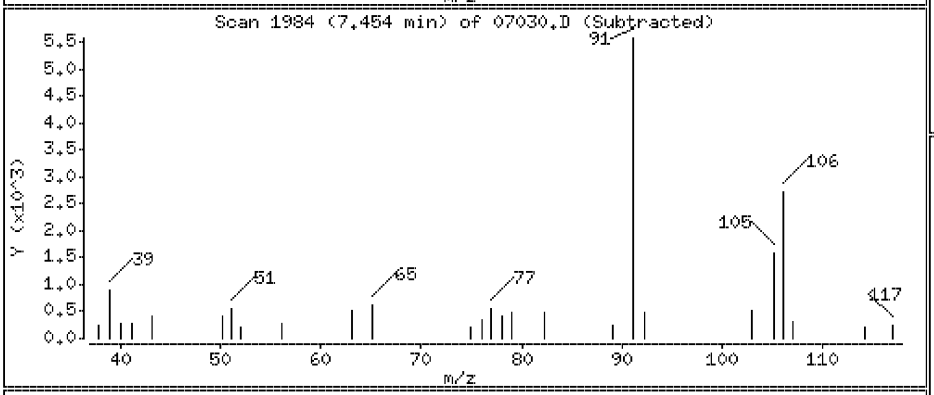
Column diameter: 0.32

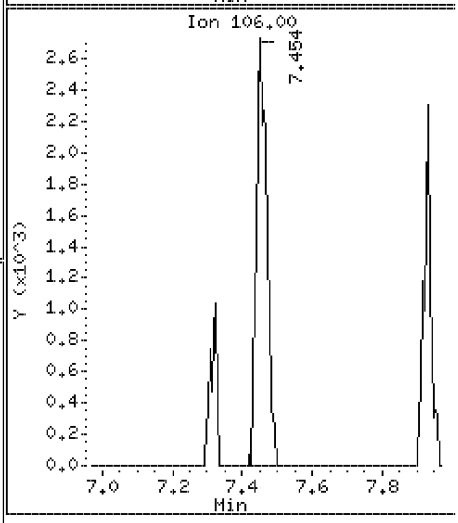
70 m&p-Xylene

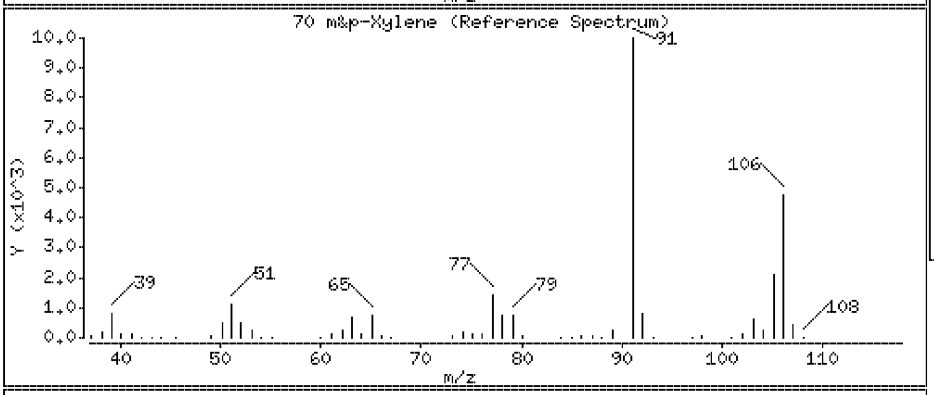
Concentration: 0.0553 ppbv

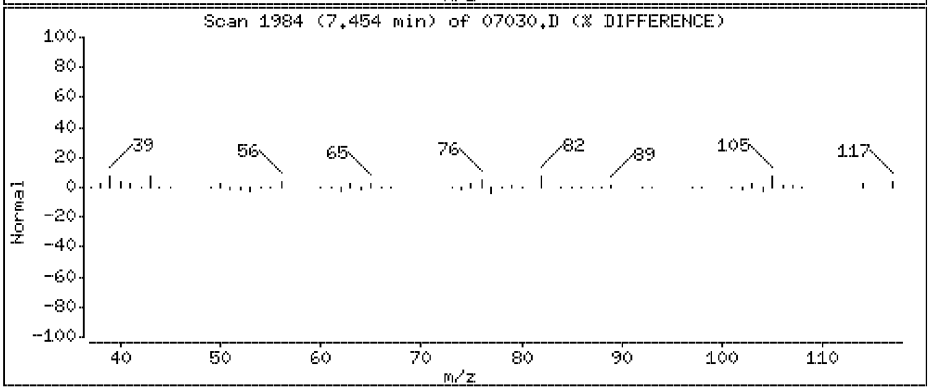












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

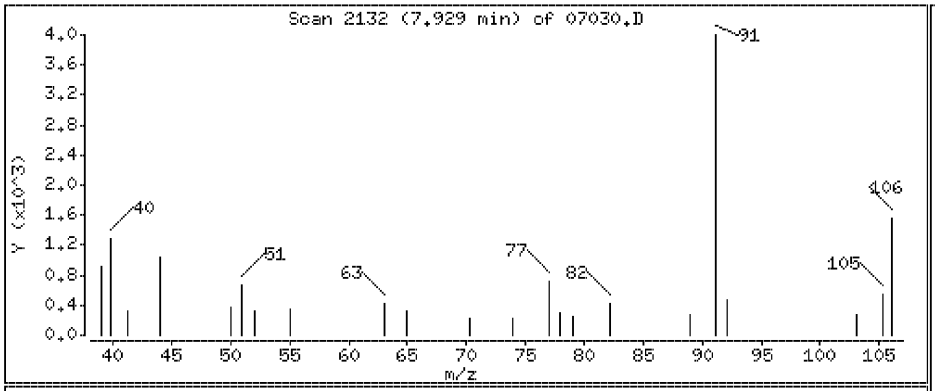
Operator: DR1

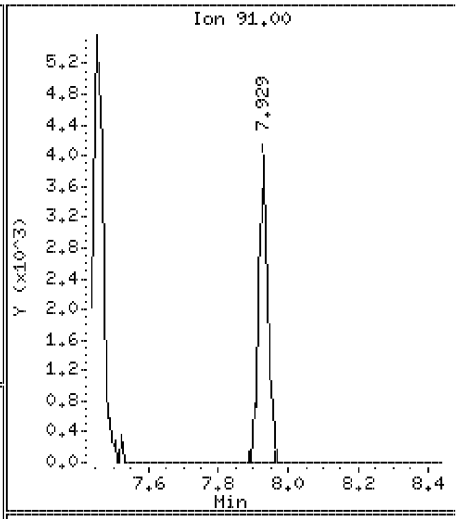
Column phase: J&W DB-5

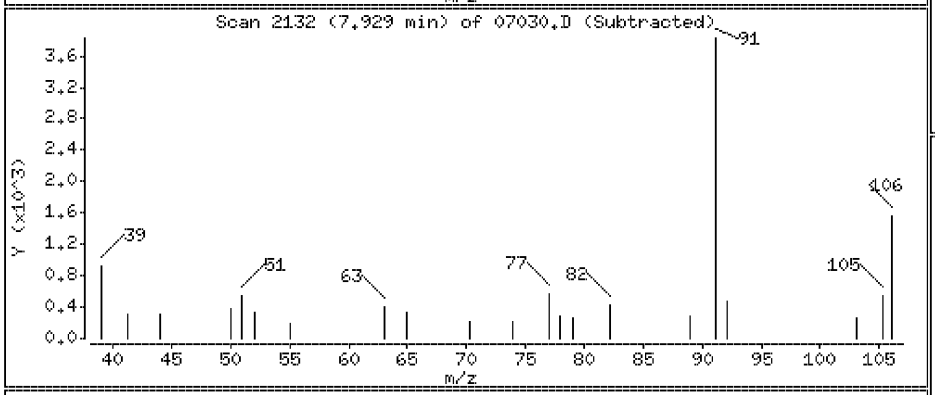
Column diameter: 0.32

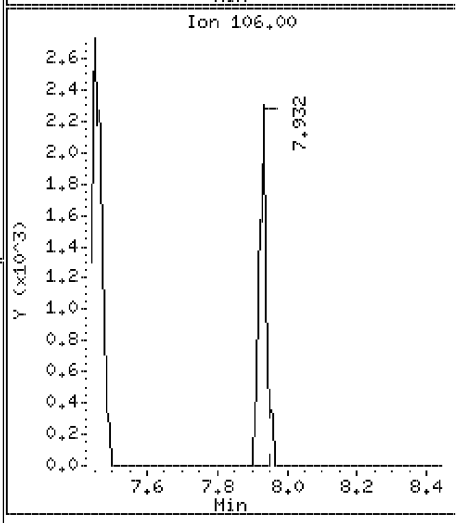
74 o-Xylene

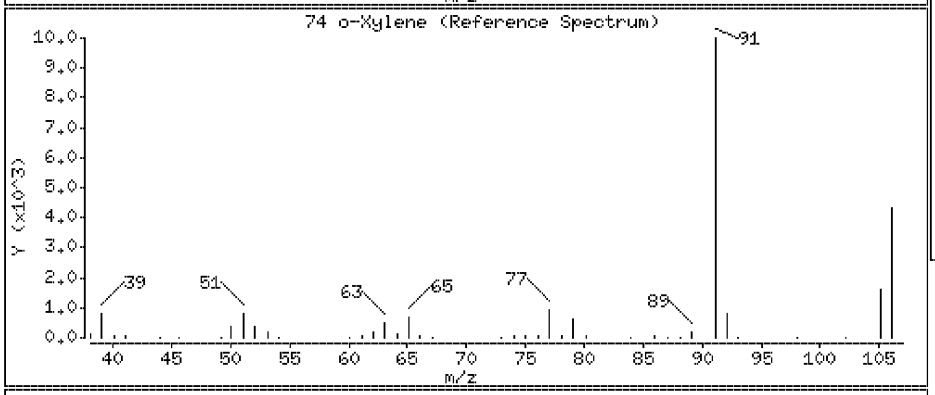
Concentration: 0.204 ppbv

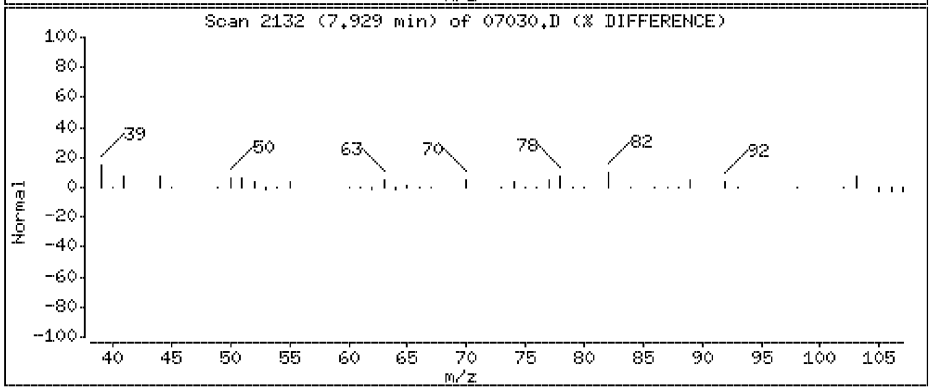












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

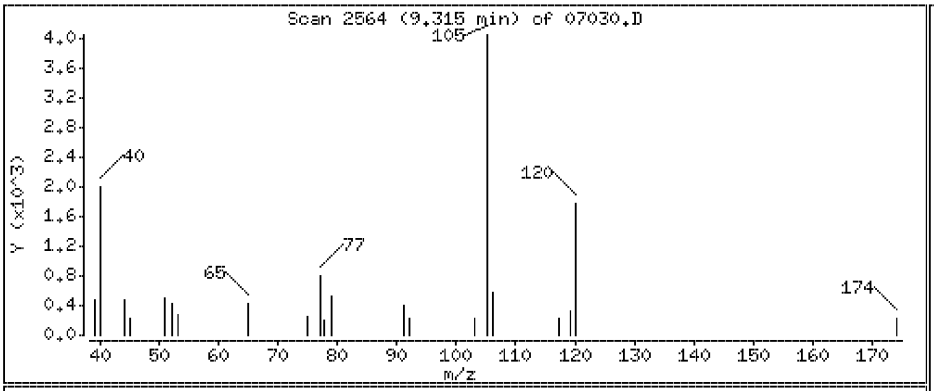
Operator: DR1

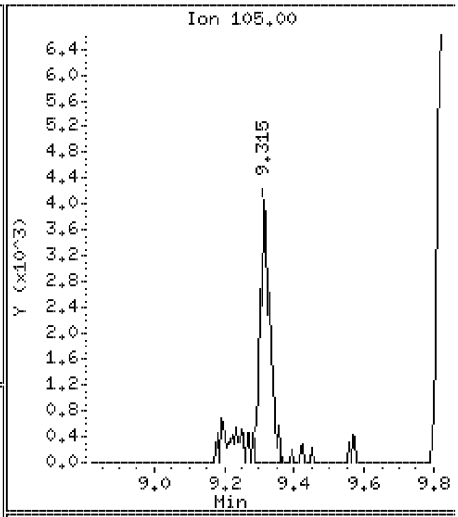
Column phase: J&W DB-5

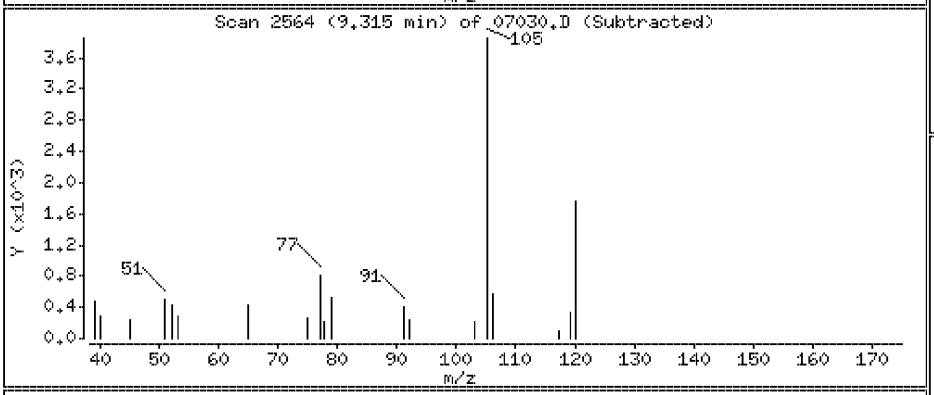
Column diameter: 0.32

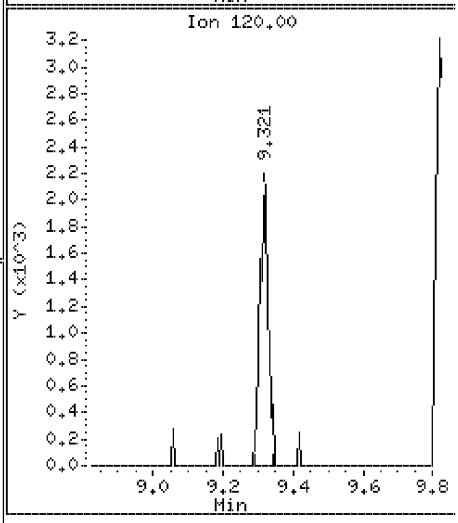
79 1,3,5-Trimethylbenzene

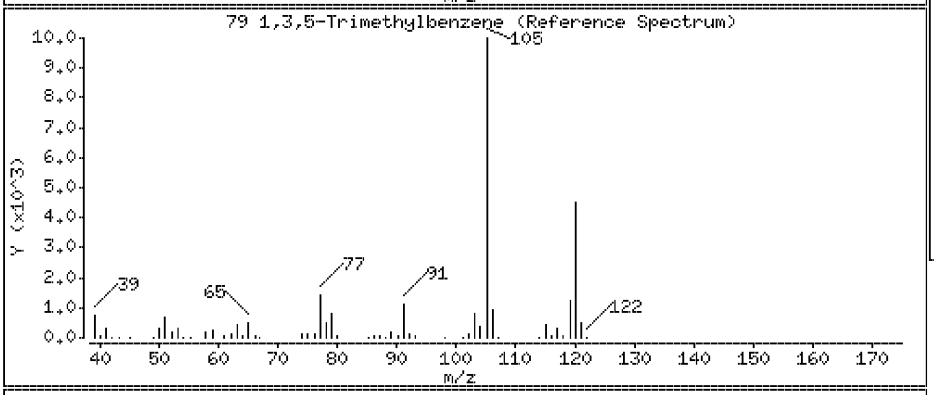
Concentration: 0.139 ppbv

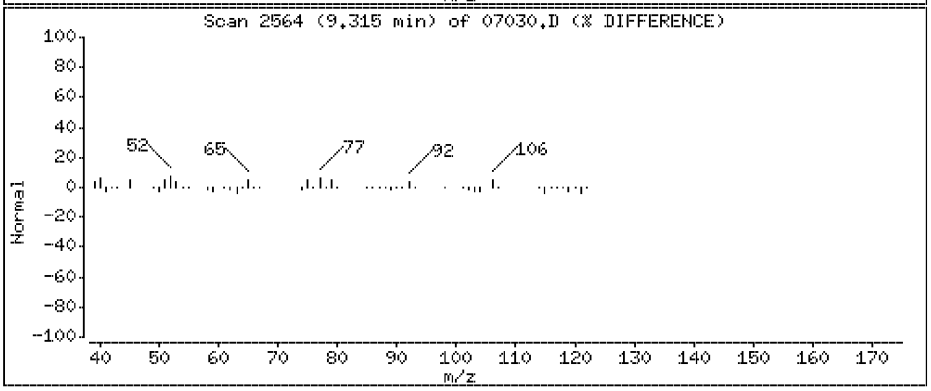












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

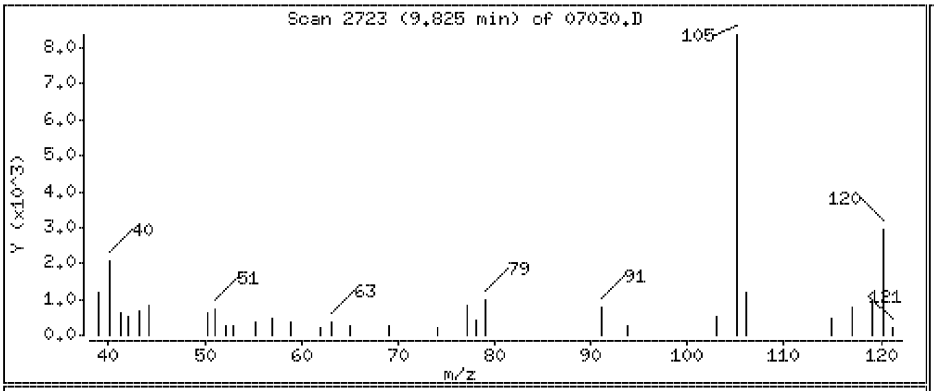
Operator: DR1

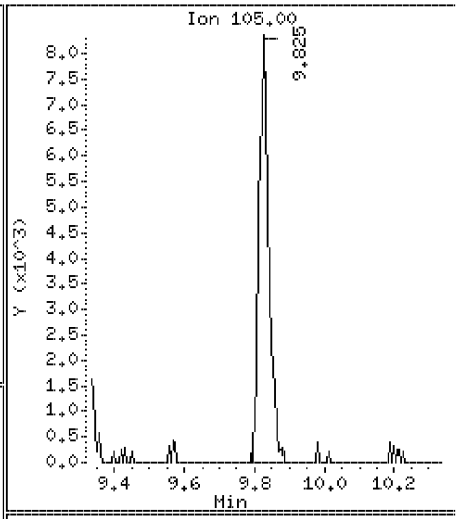
Column phase: J&W DB-5

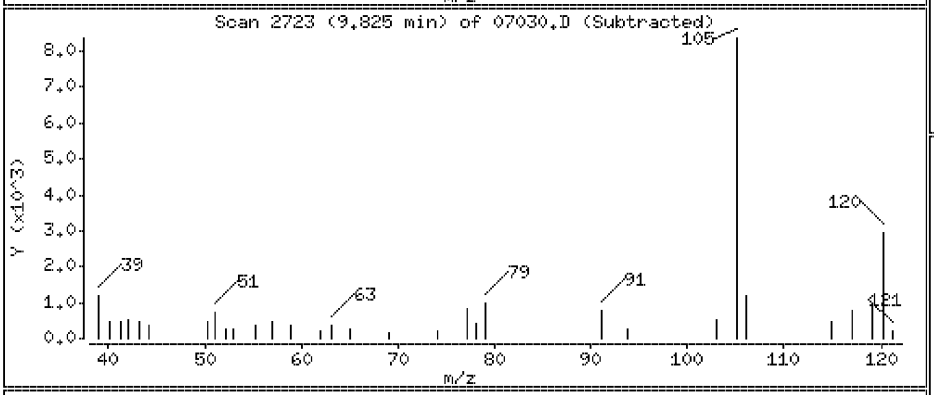
Column diameter: 0.32

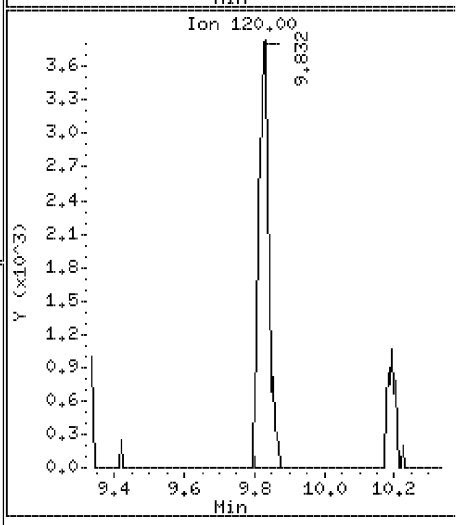
82 1,2,4-Trimethylbenzene

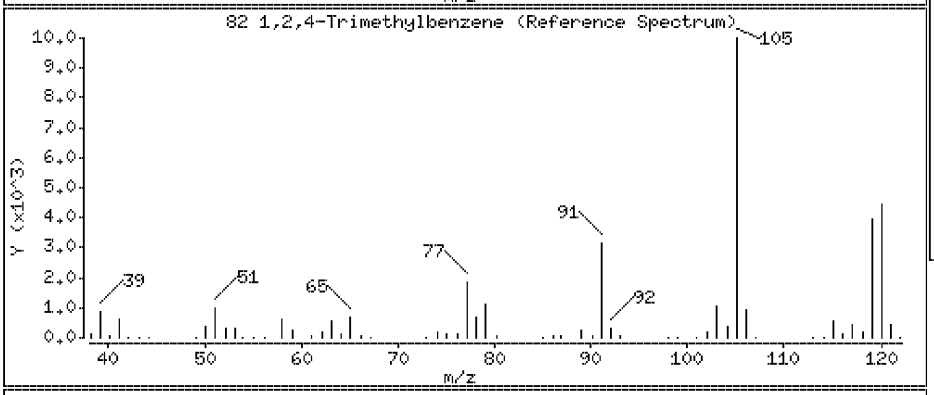
Concentration: 0.235 ppbv

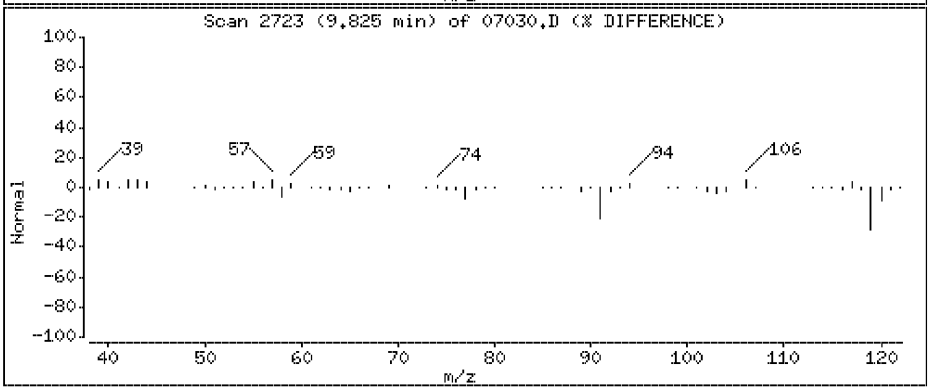












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07030.D

Date : 12-MAR-2017 01:16

Client ID:

Instrument: 10airD.i

Sample Info:

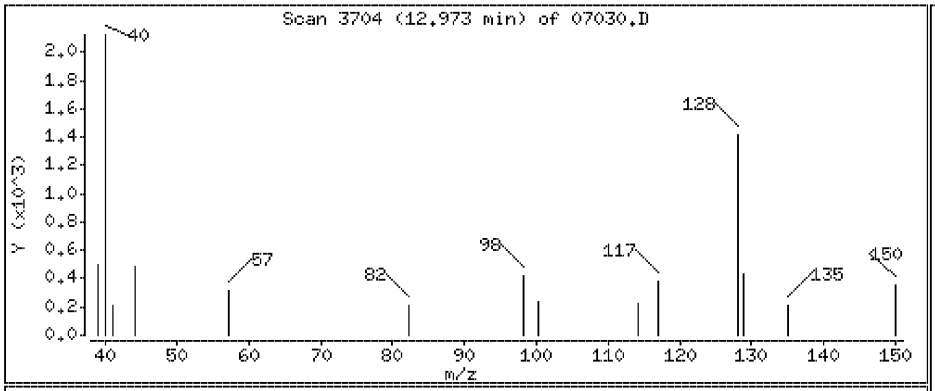
Operator: DR1

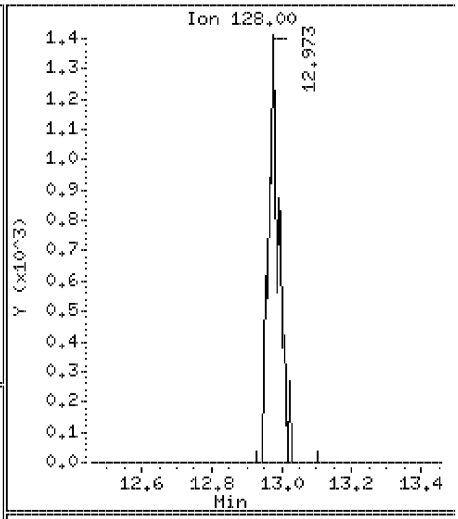
Column phase: J&W DB-5

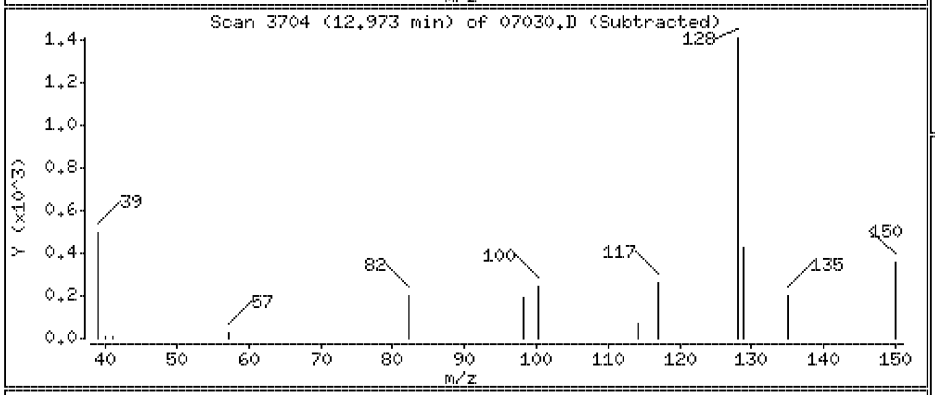
Column diameter: 0.32

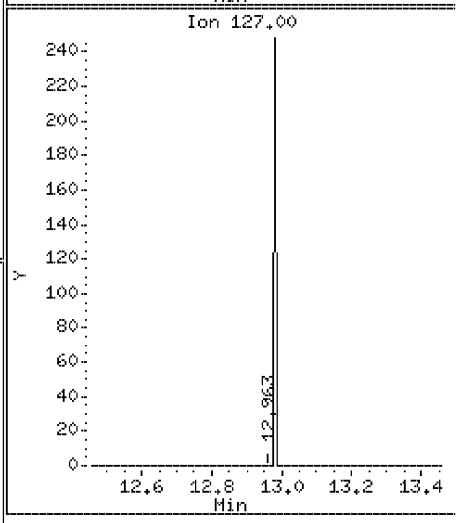
94 Naphthalene

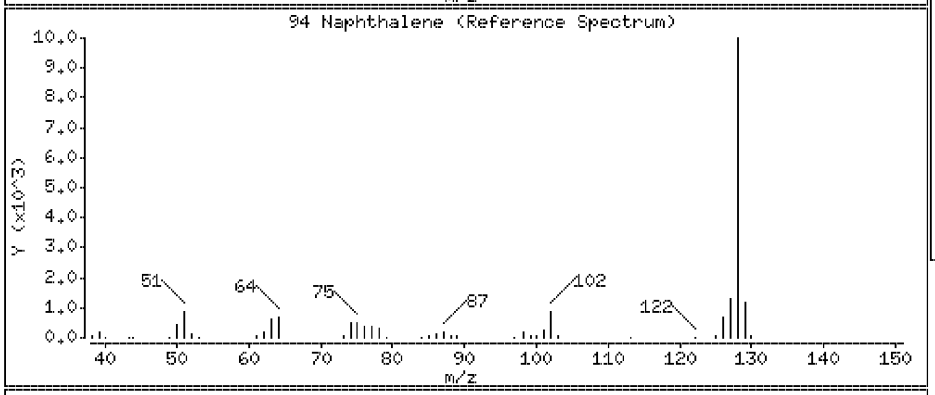
Concentration: 0.276 ppbv

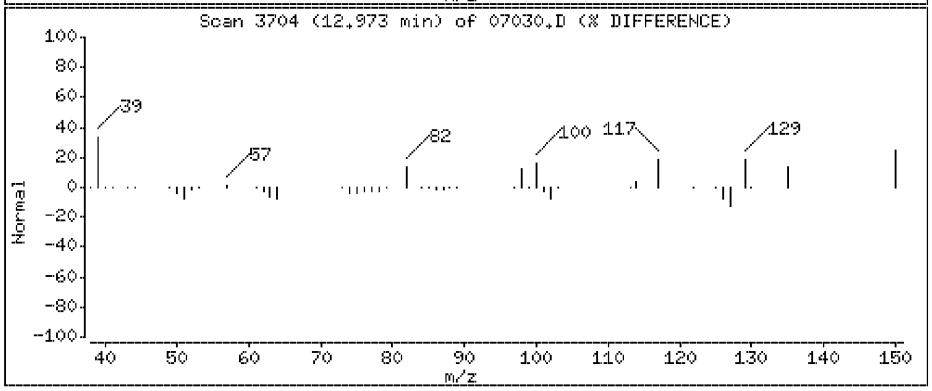






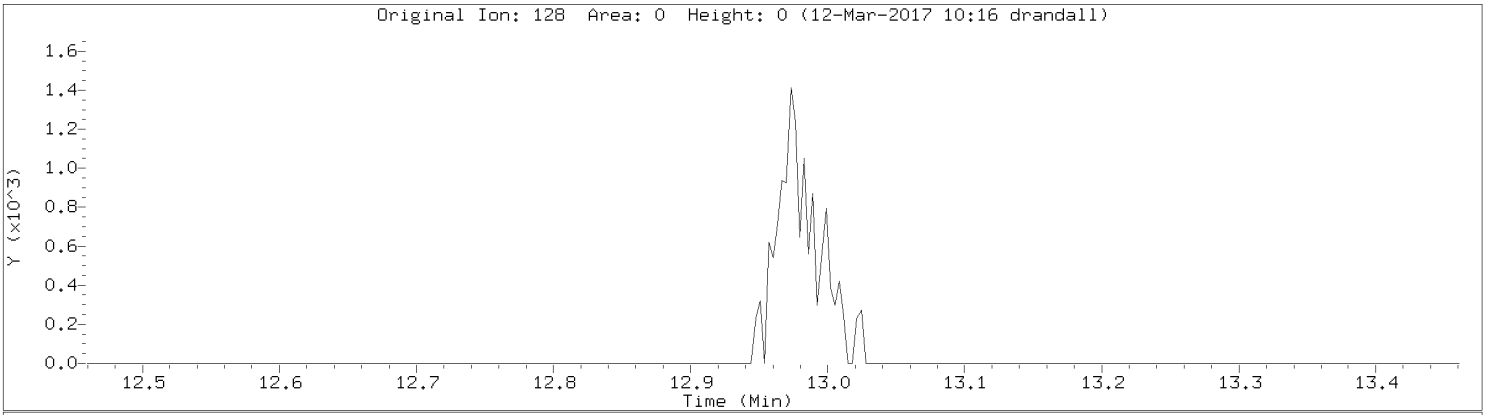


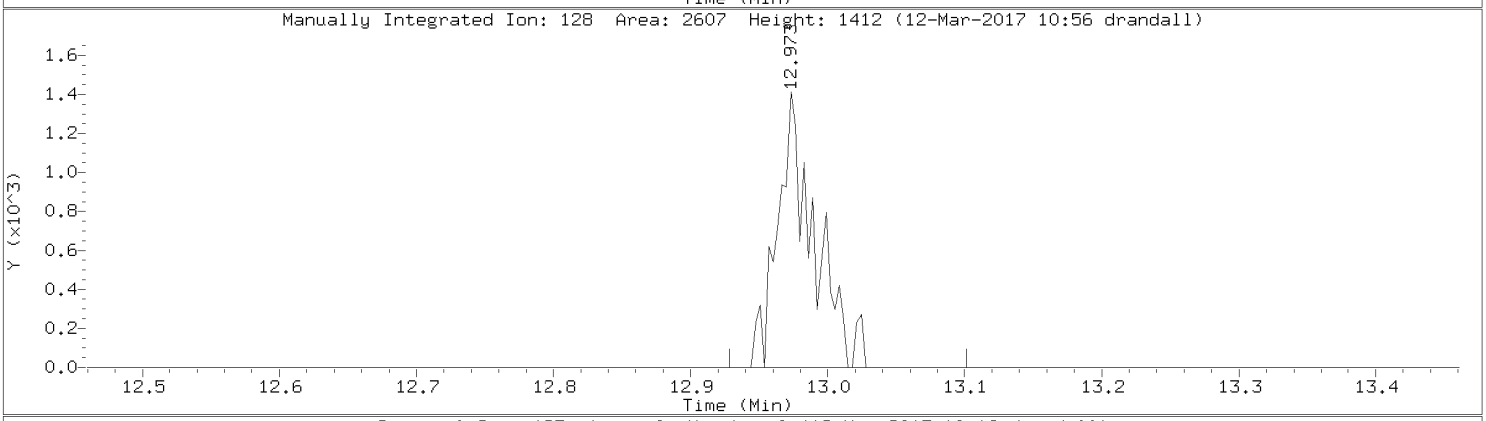


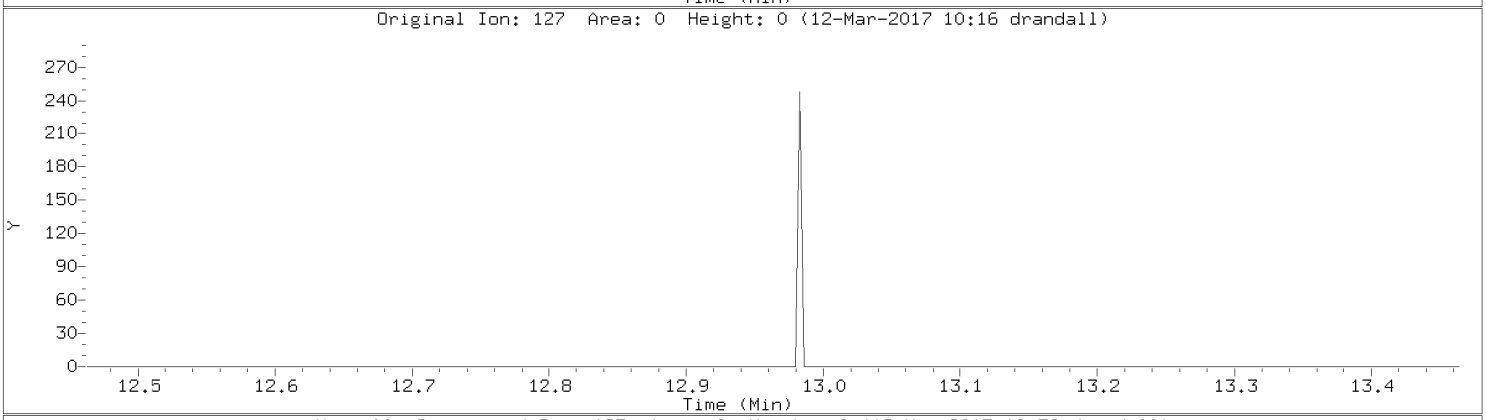


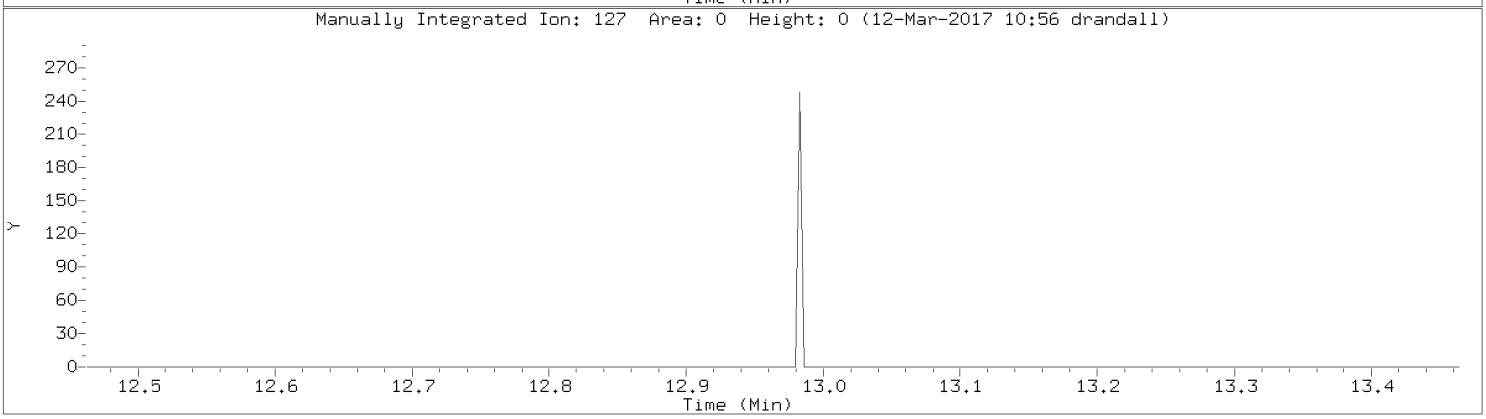
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07030.d
Injection Date: 12-MAR-2017 01:16
Instrument: 10airD.i
Lab Sample ID: 10380372001

Compound: Naphthalene
CAS Number: 91-20-3









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_8.5_20170226 **Lab ID: 10380372001** Collected: 02/26/17 13:47 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**10.1**	ug/m3	4.4	0.42	1.75		03/10/17 16:54	67-63-0	L1
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/10/17 16:54	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/10/17 16:54	79-34-5	
Tetrachloroethene	**0.49U**	ug/m3	1.2	0.49	1.75		03/10/17 16:54	127-18-4	
Toluene	**3.3**	ug/m3	1.3	0.27	1.75		03/10/17 16:54	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/10/17 16:54	120-82-1	
1,1,1-Trichloroethane	**0.43U**	ug/m3	1.9	0.43	1.75		03/10/17 16:54	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/10/17 16:54	79-00-5	
Trichloroethene	**0.48U**	ug/m3	0.96	0.48	1.75		03/10/17 16:54	79-01-6	
Trichlorofluoromethane	**2.0**	ug/m3	2.0	0.23	1.75		03/10/17 16:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.53U**	ug/m3	2.8	0.53	1.75		03/10/17 16:54	76-13-1	
1,2,4-Trimethylbenzene	**0.22U**	ug/m3	1.7	0.22	1.75		03/10/17 16:54	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/10/17 16:54	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/10/17 16:54	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.1	1.4	1.75		03/10/17 16:54	179601-23-1	
o-Xylene	**0.61U**	ug/m3	1.5	0.61	1.75		03/10/17 16:54	95-47-6	

Sample: VP-102_19.5_20170226 **Lab ID: 10380372002** Collected: 02/26/17 13:44 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**4.2J**	ug/m3	11.0	1.5	1.83		03/10/17 17:22	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/10/17 17:22	107-05-1	
Benzene	**0.22U**	ug/m3	0.59	0.22	1.83		03/10/17 17:22	71-43-2	
Bromodichloromethane	**0.36U**	ug/m3	2.5	0.36	1.83		03/10/17 17:22	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/10/17 17:22	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/10/17 17:22	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/10/17 17:22	106-99-0	
2-Butanone (MEK)	**0.99J**	ug/m3	5.5	0.42	1.83		03/10/17 17:22	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/10/17 17:22	75-15-0	
Carbon tetrachloride	**0.54J**	ug/m3	1.2	0.35	1.83		03/10/17 17:22	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/10/17 17:22	108-90-7	
Chlorodifluoromethane	**32.2**	ug/m3	1.3	0.51	1.83		03/10/17 17:22	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/10/17 17:22	75-00-3	
Chloroform	**0.35U**	ug/m3	0.91	0.35	1.83		03/10/17 17:22	67-66-3	
Chloromethane	**0.20U**	ug/m3	0.77	0.20	1.83		03/10/17 17:22	74-87-3	
Chloropentafluoroethane	**10.4**	ug/m3	5.9	5.9	1.83		03/10/17 17:22	76-15-3	CH
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/10/17 17:22	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/10/17 17:22	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/10/17 17:22	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/10/17 17:22	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/10/17 17:22	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/10/17 17:22	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_19.5_20170226 **Lab ID: 10380372002** Collected: 02/26/17 13:44 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/10/17 17:22	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	0.88	1.83		03/10/17 17:22	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/10/17 17:22	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/10/17 17:22	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 17:22	75-35-4	
cis-1,2-Dichloroethene	**0.45U**	ug/m3	1.5	0.45	1.83		03/10/17 17:22	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/10/17 17:22	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/10/17 17:22	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/10/17 17:22	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/10/17 17:22	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/10/17 17:22	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/10/17 17:22	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/10/17 17:22	123-91-1	
Ethylbenzene	**0.78U**	ug/m3	1.6	0.78	1.83		03/10/17 17:22	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/10/17 17:22	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/10/17 17:22	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.65	1.83		03/10/17 17:22	110-54-3	
2-Hexanone	**0.75U**	ug/m3	7.6	0.75	1.83		03/10/17 17:22	591-78-6	
Isopropylbenzene (Cumene)	**0.26J**	ug/m3	4.6	0.25	1.83		03/10/17 17:22	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/10/17 17:22	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 17:22	108-87-2	
Methylene Chloride	**7.3**	ug/m3	6.5	0.99	1.83		03/10/17 17:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/10/17 17:22	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/10/17 17:22	1634-04-4	
2-Propanol	**11.6**	ug/m3	4.6	0.44	1.83		03/10/17 17:22	67-63-0	L1
Styrene	**0.35U**	ug/m3	1.6	0.35	1.83		03/10/17 17:22	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/10/17 17:22	79-34-5	
Tetrachloroethene	**3.1**	ug/m3	1.3	0.51	1.83		03/10/17 17:22	127-18-4	
Toluene	**8.4**	ug/m3	1.4	0.28	1.83		03/10/17 17:22	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/10/17 17:22	120-82-1	
1,1,1-Trichloroethane	**0.45U**	ug/m3	2.0	0.45	1.83		03/10/17 17:22	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/10/17 17:22	79-00-5	
Trichloroethene	**1.9**	ug/m3	1.0	0.51	1.83		03/10/17 17:22	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.1	0.24	1.83		03/10/17 17:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.99J**	ug/m3	2.9	0.55	1.83		03/10/17 17:22	76-13-1	
1,2,4-Trimethylbenzene	**0.83J**	ug/m3	1.8	0.23	1.83		03/10/17 17:22	95-63-6	
1,3,5-Trimethylbenzene	**0.33U**	ug/m3	1.8	0.33	1.83		03/10/17 17:22	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/10/17 17:22	75-01-4	
m&p-Xylene	**2.0J**	ug/m3	3.2	1.4	1.83		03/10/17 17:22	179601-23-1	
o-Xylene	**0.87J**	ug/m3	1.6	0.64	1.83		03/10/17 17:22	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.d
Report Date: 13-Mar-2017 15:47

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06906.d
Lab Smp Id: 10380372002
Inj Date : 10-MAR-2017 17:22
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 6
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	2.127	2.065	(0.501)	5339	0.88899	1.63	
2	1,1-Difluoroethane	65	2.114	2.114	(0.498)	10708	0.63041	1.15(Q)	
3	Chlorodifluoromethane	67	2.123	2.123	(0.501)	41193	4.89161	8.95(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.149	(0.507)	23165	0.30207	0.553	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.502	2.499	(0.590)	32314	6.03405	11.0	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	2.537	2.544	(0.598)	11816	0.35358	0.647	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.601	2.605	(0.613)	11145	0.13892	0.254	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.643	2.637	(0.623)	73407	0.94168	1.72(M)	
19	Isopropyl Alcohol	45	2.672	2.672	(0.630)	68850	2.53382	4.64(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	2.826	2.829	(0.666)	2804	0.07585	0.139	
22	Freon 113	101	2.813	2.823	(0.663)	4350	0.06916	0.127	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.d
Report Date: 13-Mar-2017 15:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	2.861	2.871	(0.675)	52089	1.13408	2.08	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	2.974	2.964	(0.701)	1017	0.01502	0.0275(a)	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.266	3.269	(0.770)	1803254	9.73782	9.74	
	33 Methyl Ethyl Ketone	72	3.349	3.336	(0.790)	2009	0.18115	0.332(Q)	
	34 n-Hexane	57	3.349	3.349	(0.790)	6537	0.16303	0.298(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	3.487	3.477	(0.822)	6116	0.09533	0.174(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	45 Carbon tetrachloride	117	4.122	4.119	(0.972)	2858	0.04644	0.0850(a)	
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	4.241	4.241	(1.000)	59522	0.01143	0.0209(aQ)	
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	3488152	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	4.546	4.556	(1.072)	448	0.01267	0.0232(aQ)	
	51 Trichloroethene	130	4.562	4.572	(1.076)	7937	0.18837	0.345	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.566	(1.311)	3387605	9.69217	9.69	
	60 Toluene	91	5.631	5.634	(1.328)	123653	1.19916	2.19	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	6.048	6.054	(0.861)	6171	0.09063	0.166(QM)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.407	6.407	(0.912)	14687	0.24212	0.443	
*	67 Chlorobenzene - d5	117	7.027	7.033	(1.000)	2743872	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.309	7.318	(1.040)	11523	0.09571	0.175	
	70 m&p-Xylene	91	7.453	7.460	(1.061)	35360	0.24638	0.451	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.861	7.861	(1.119)	3589	0.05713	0.105	
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	7.925	7.931	(1.128)	10725	0.10805	0.198	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	8.499	8.499	(1.210)	3538	0.02879	0.0527(a)	
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.d
Report Date: 13-Mar-2017 15:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	9.716	9.725	(2.291)	4012	0.07077	0.130	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.821	9.828	(1.398)	19027	0.09037	0.165	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.197	(1.451)	1520556	9.04482	9.04	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.966	12.953	(1.845)	11450	0.39822	0.729	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.d
Report Date: 13-Mar-2017 15:47

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06906.d
Lab Smp Id: 10380372002
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 10-MAR-2017
Calibration Time: 14:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

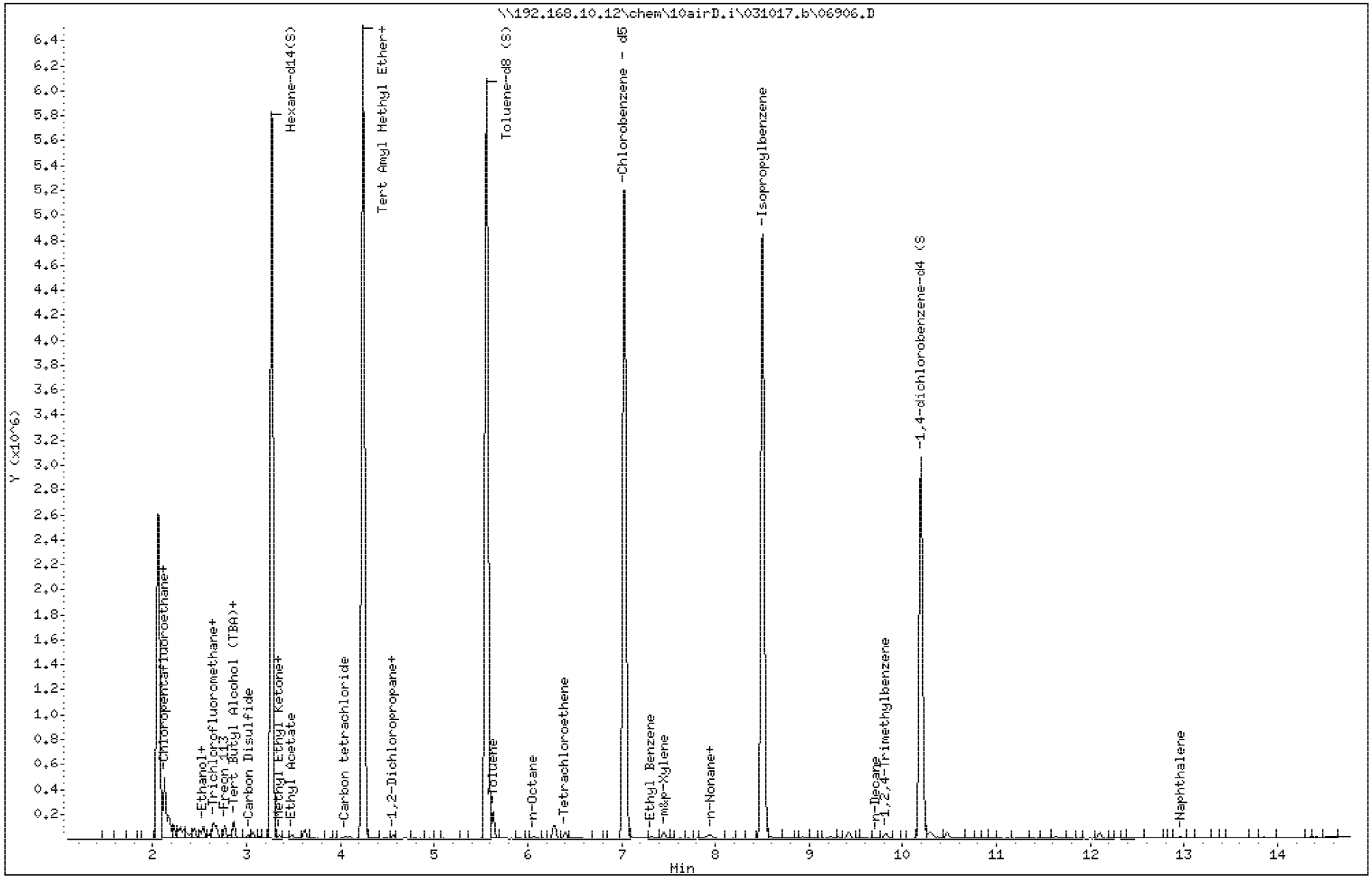
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3488152	-7.91
67 Chlorobenzene - d	3280875	1968525	4593225	2743872	-16.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D
Date : 10-MAR-2017 17:22
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

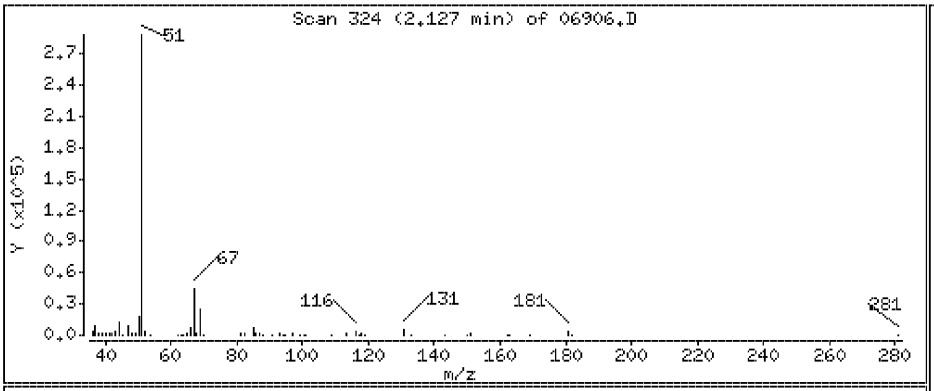
Operator: DR1

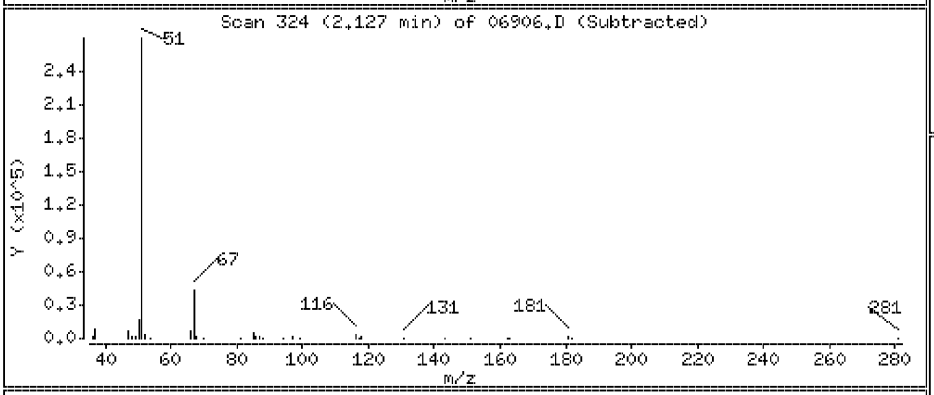
Column phase: J&W DB-5

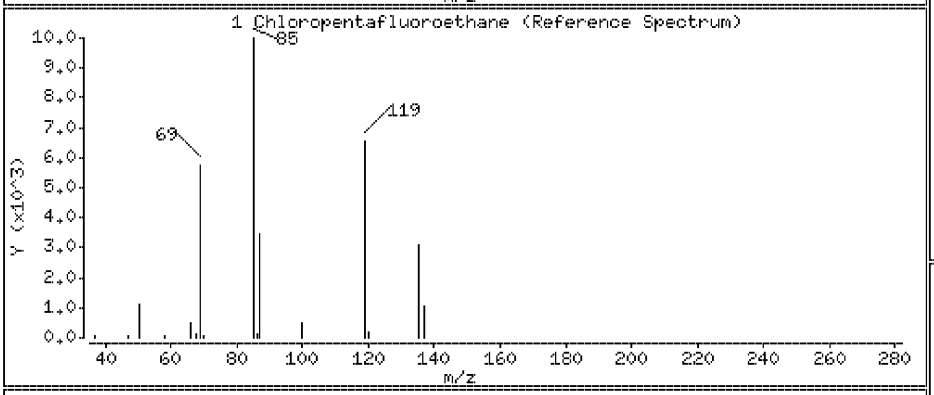
Column diameter: 0.32

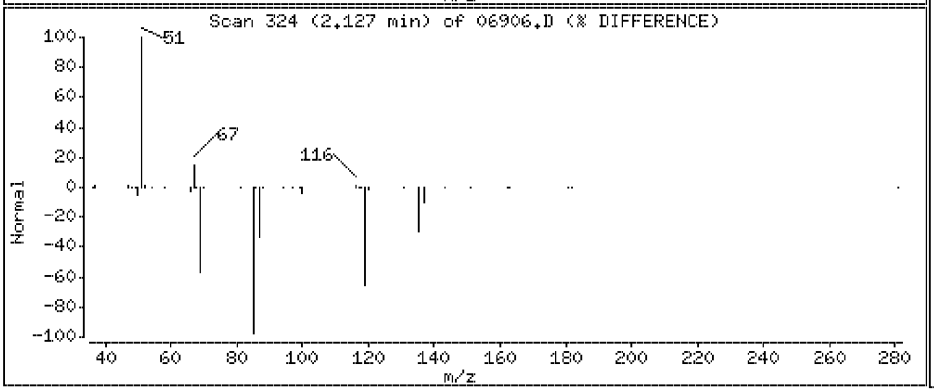
1 Chloropentafluoroethane

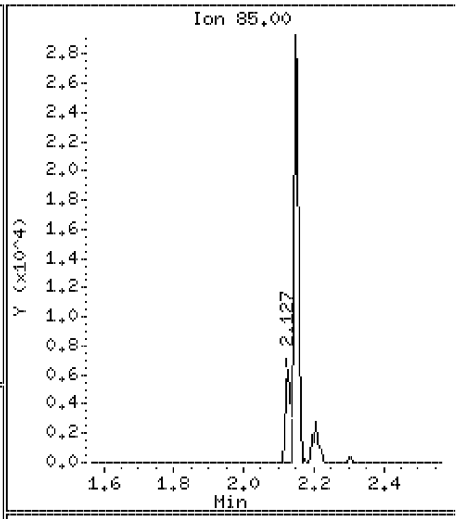
Concentration: 1.63 ppbv

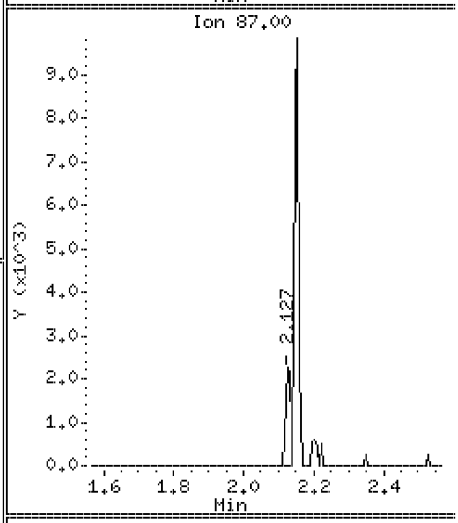


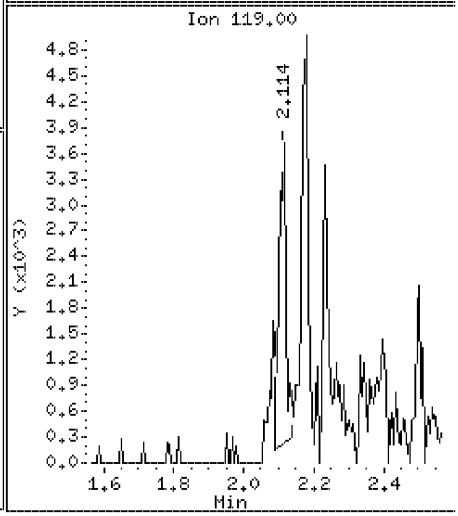












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

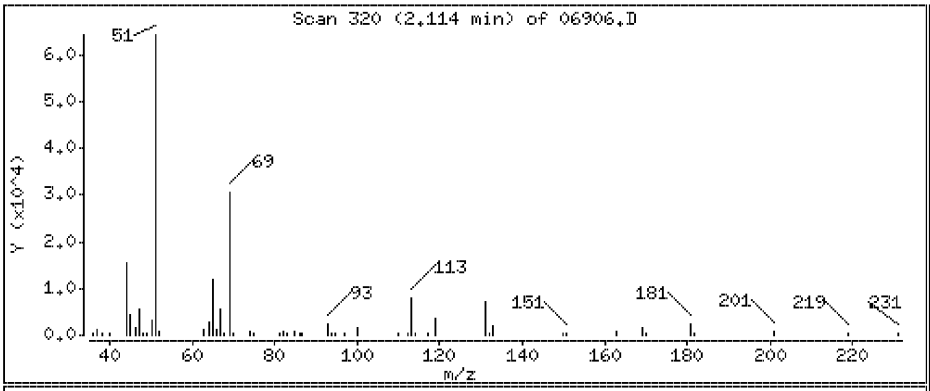
Operator: DR1

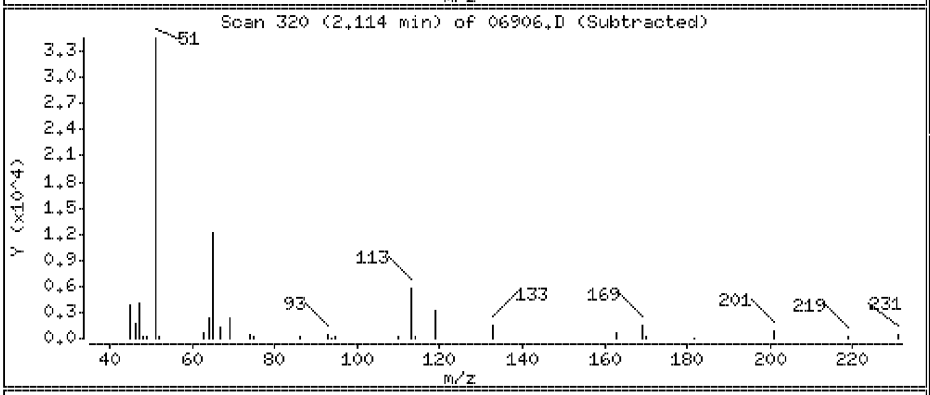
Column phase: J&W DB-5

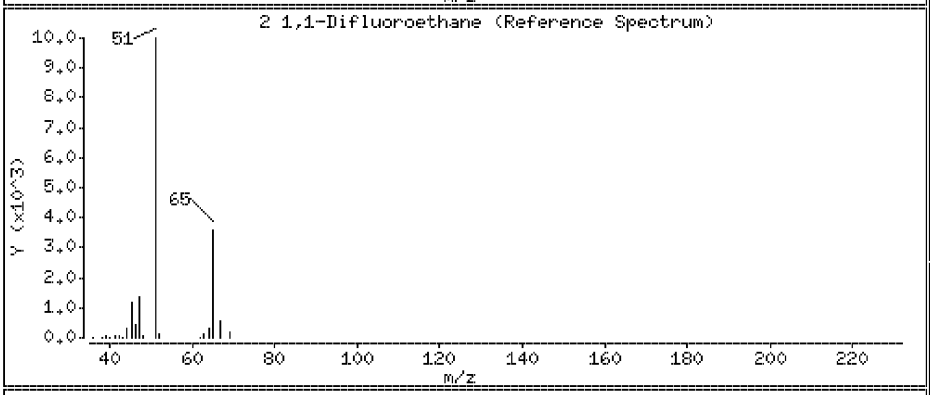
Column diameter: 0.32

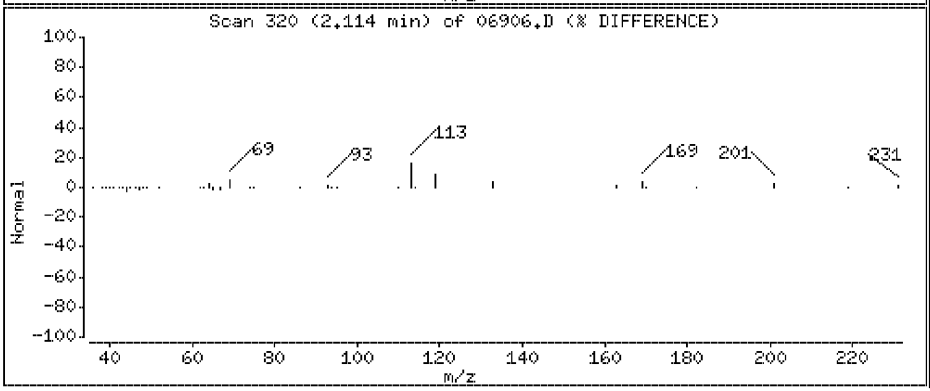
2 1,1-Difluoroethane

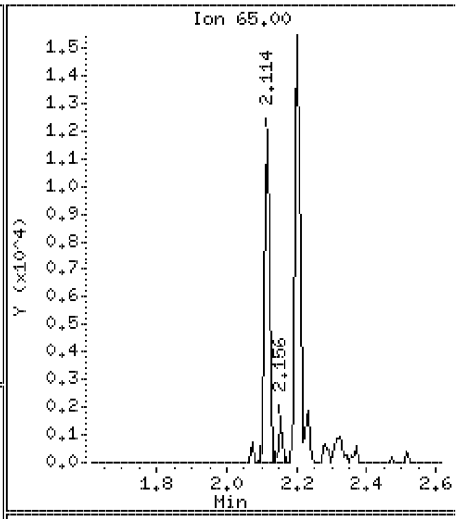
Concentration: 1.15 ppbv

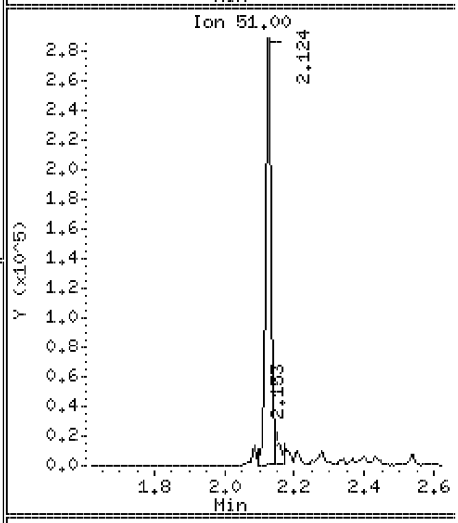


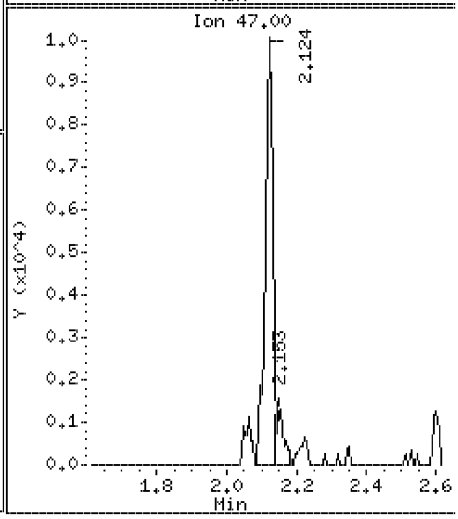












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

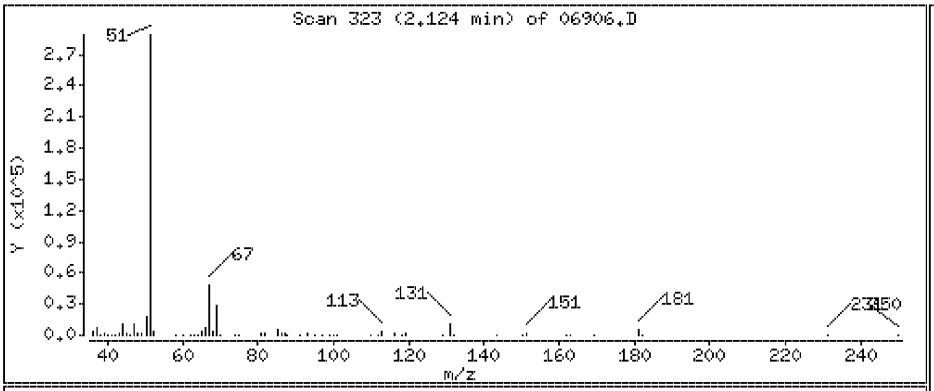
Operator: DR1

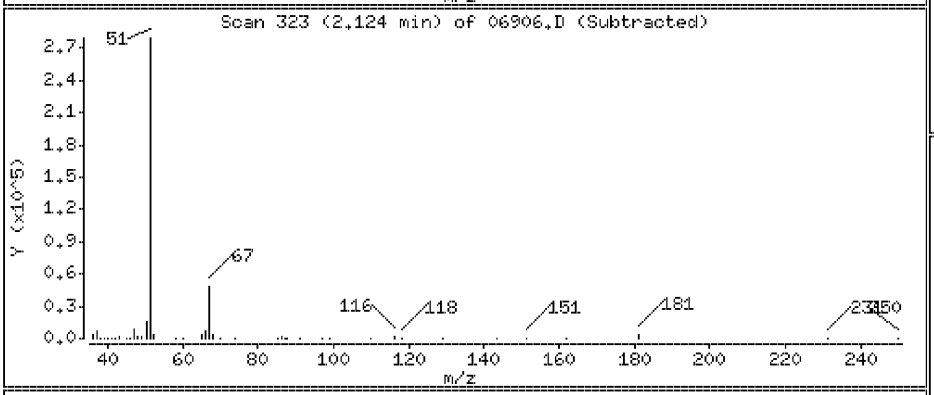
Column phase: J&W DB-5

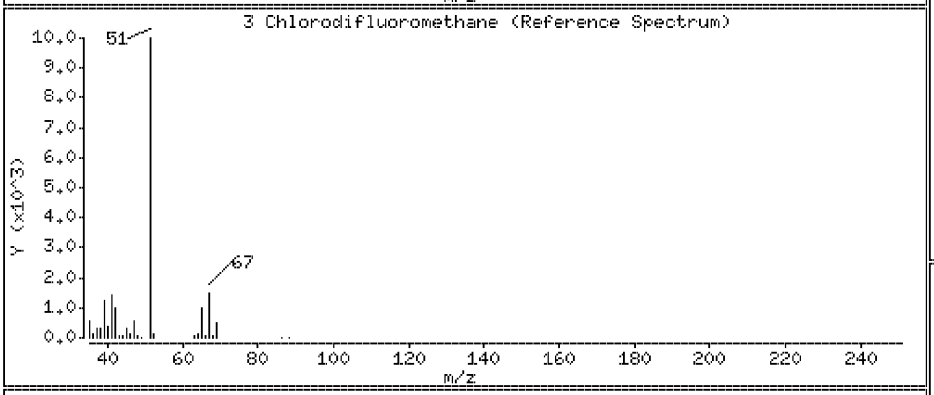
Column diameter: 0.32

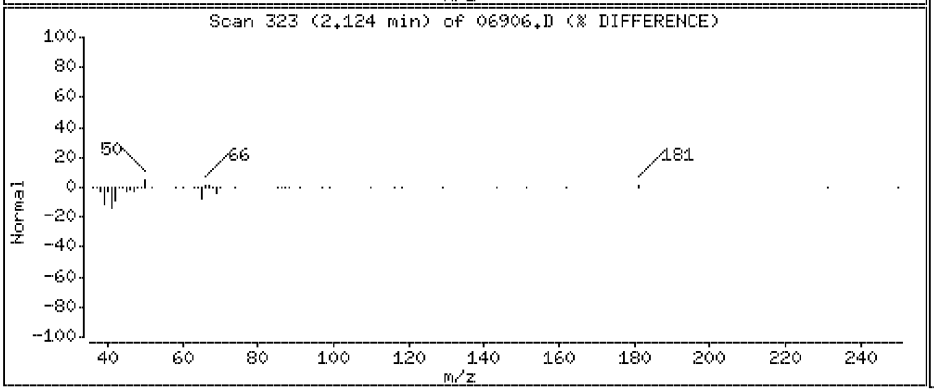
3 Chlorodifluoromethane

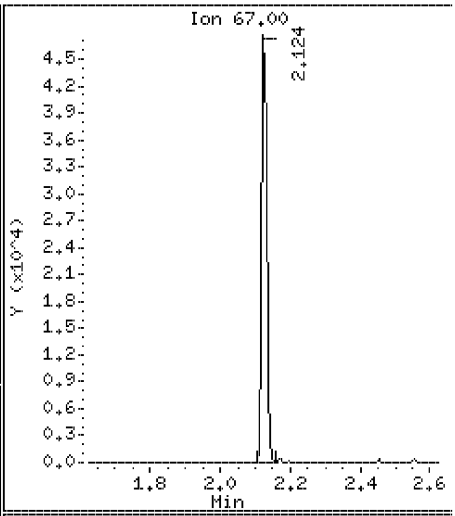
Concentration: 8.95 ppbv

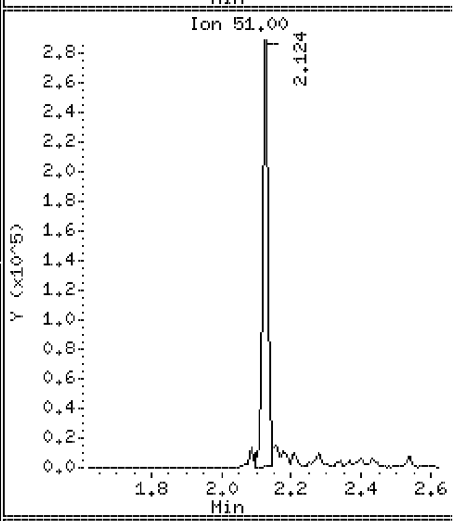


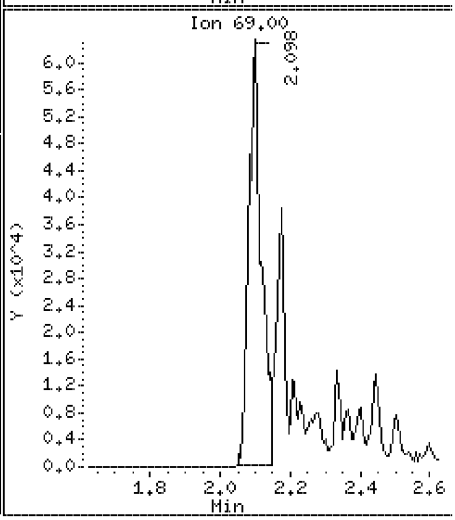












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

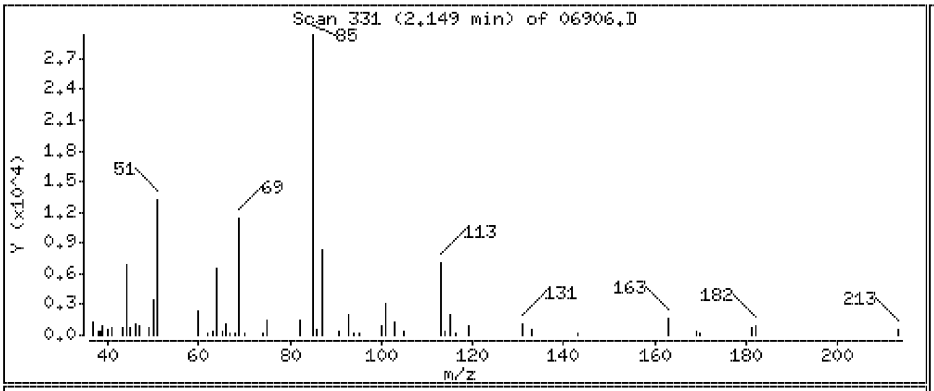
Operator: DR1

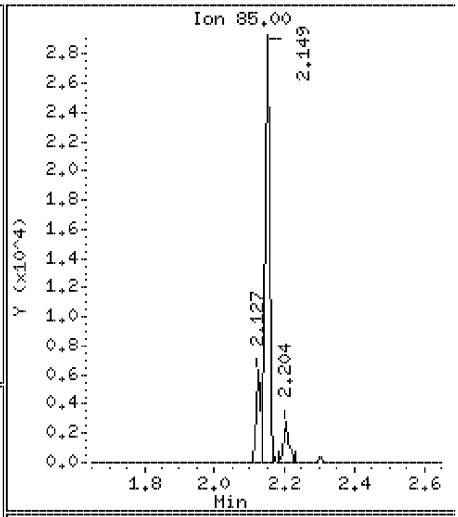
Column phase: J&W DB-5

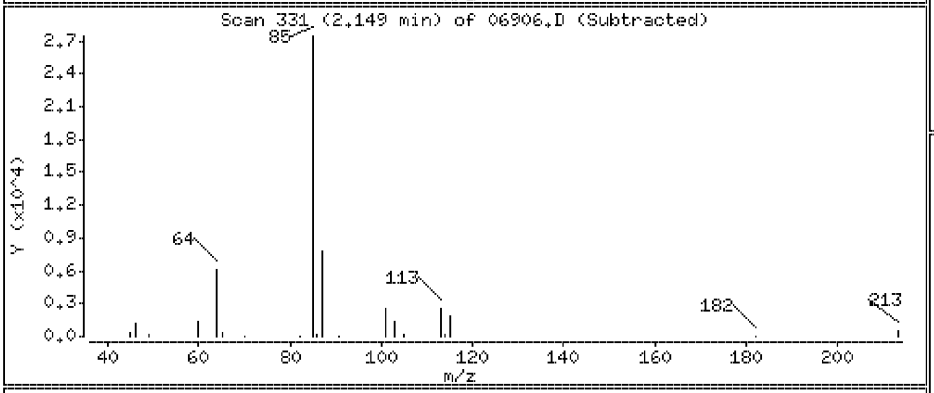
Column diameter: 0.32

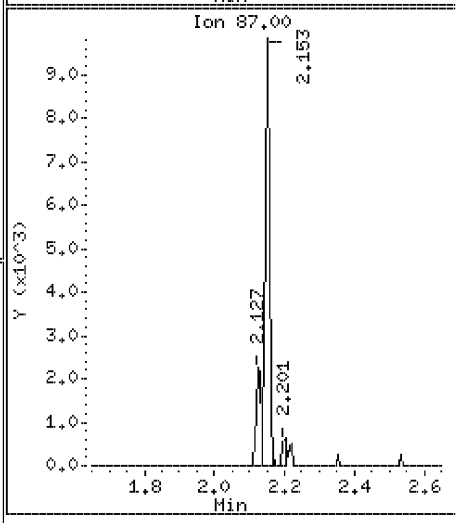
5 Dichlorodifluoromethane

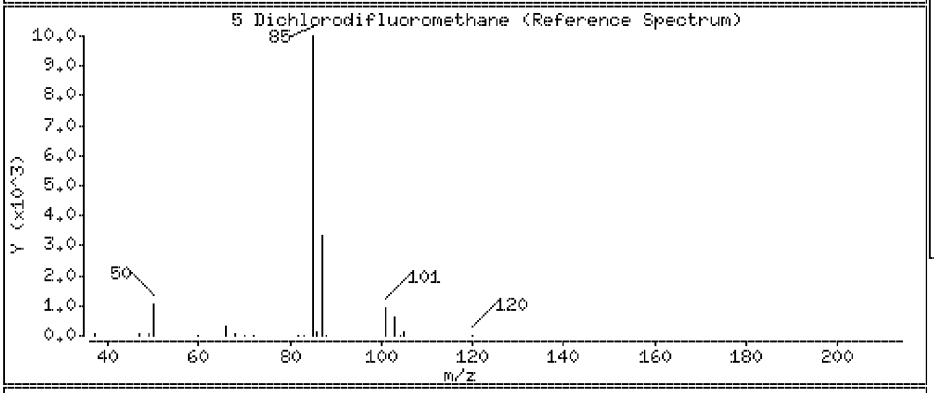
Concentration: 0.553 ppbv

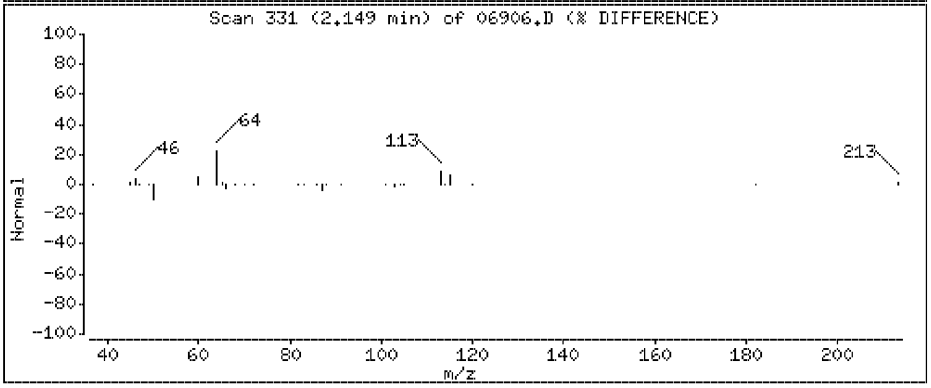












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

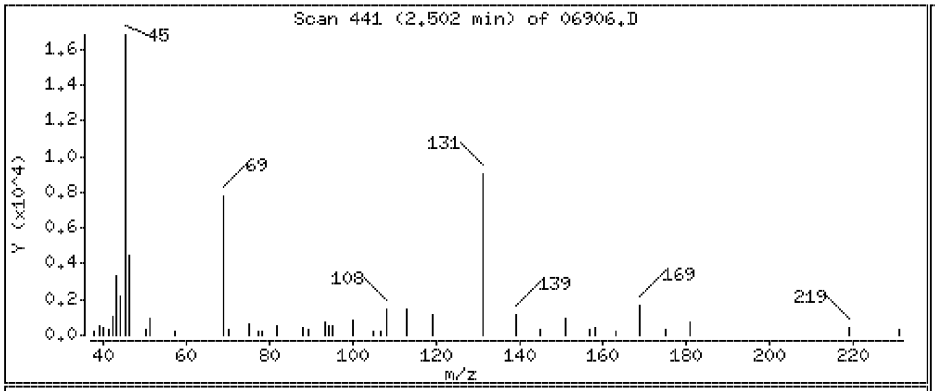
Operator: DR1

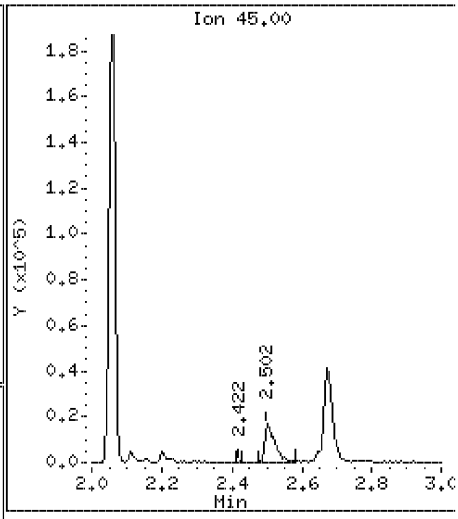
Column phase: J&W DB-5

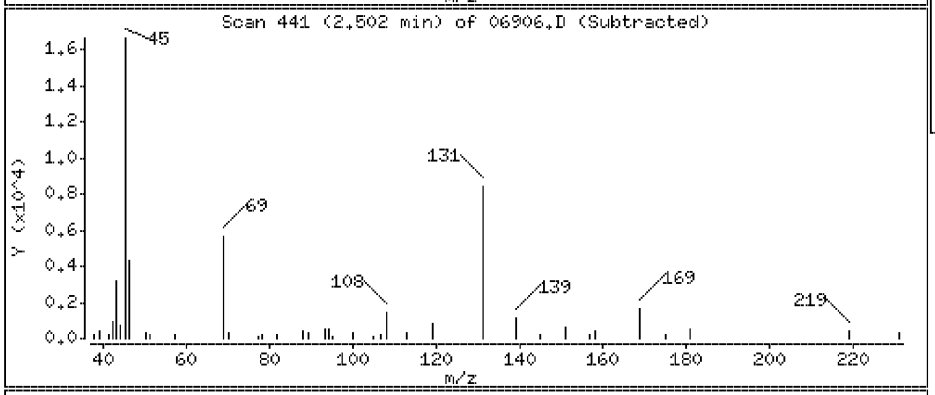
Column diameter: 0.32

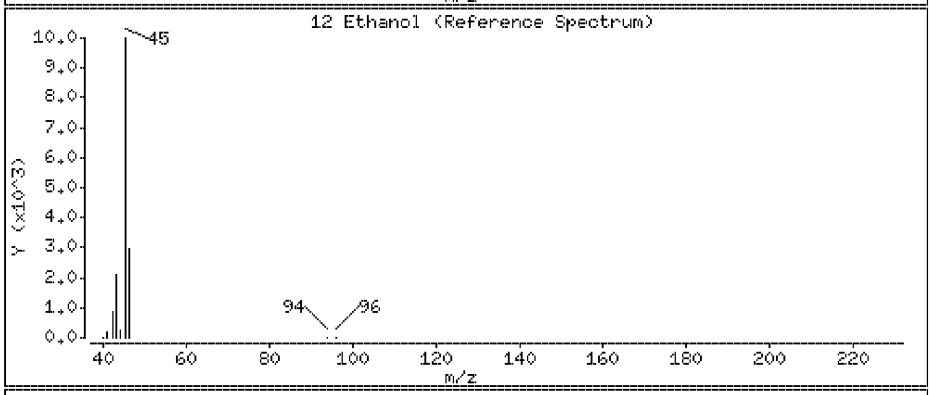
12 Ethanol

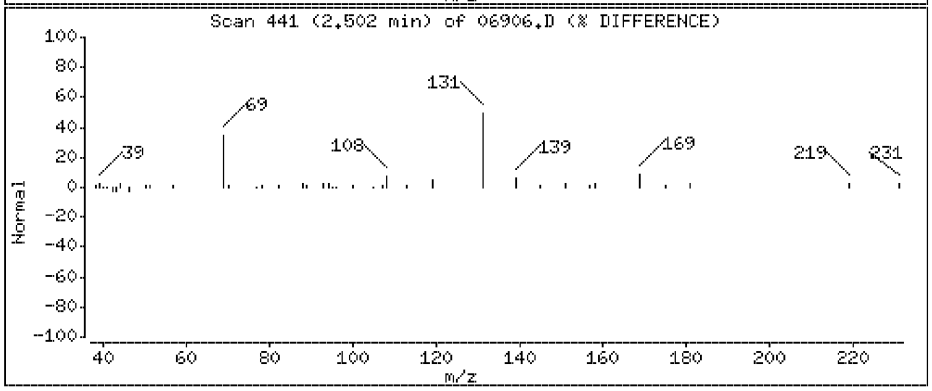
Concentration: 11.0 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

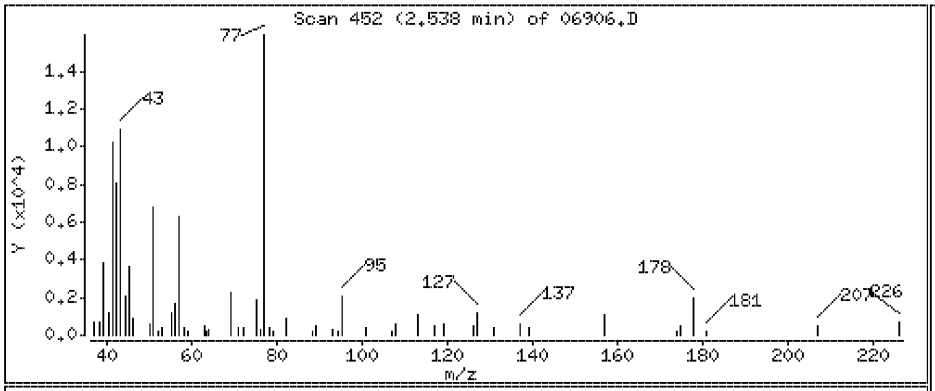
Operator: DR1

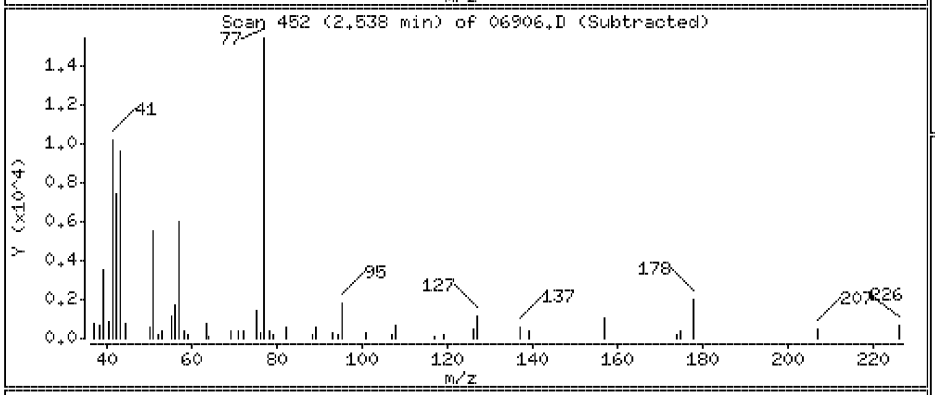
Column phase: J&W DB-5

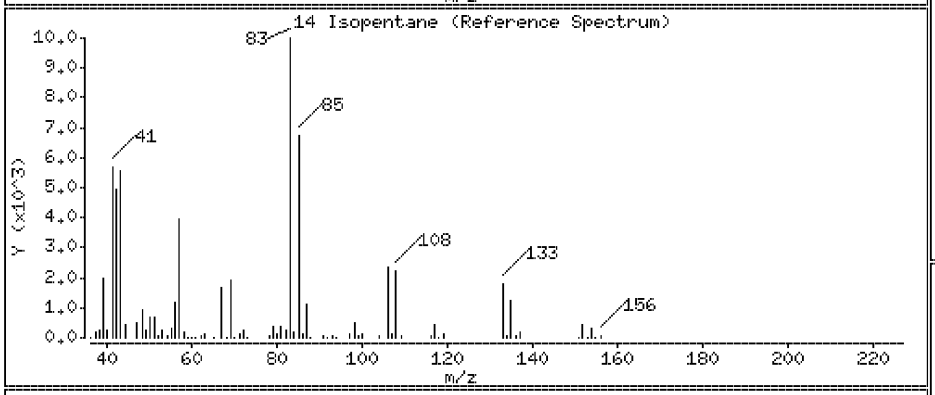
Column diameter: 0.32

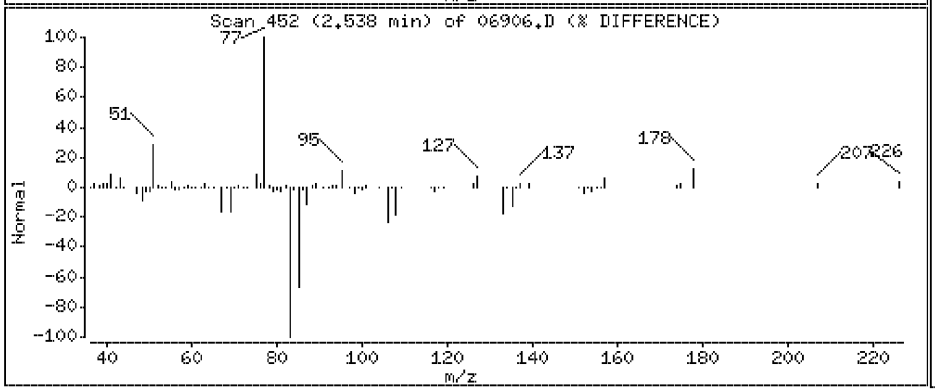
14 Isopentane

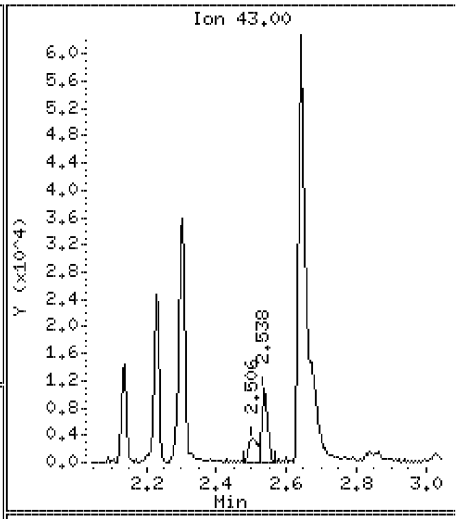
Concentration: 0.647 ppbv

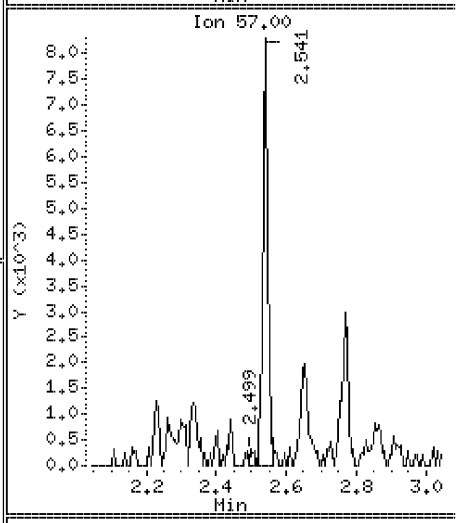


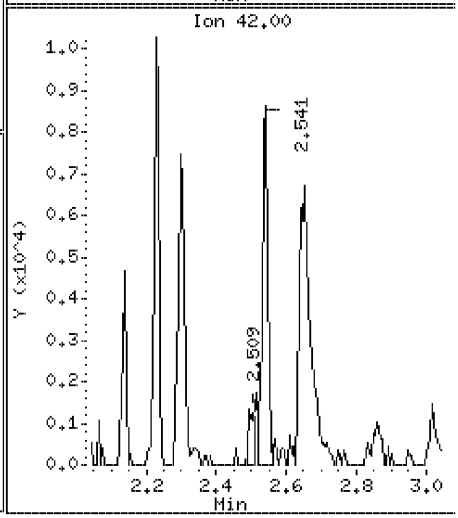












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

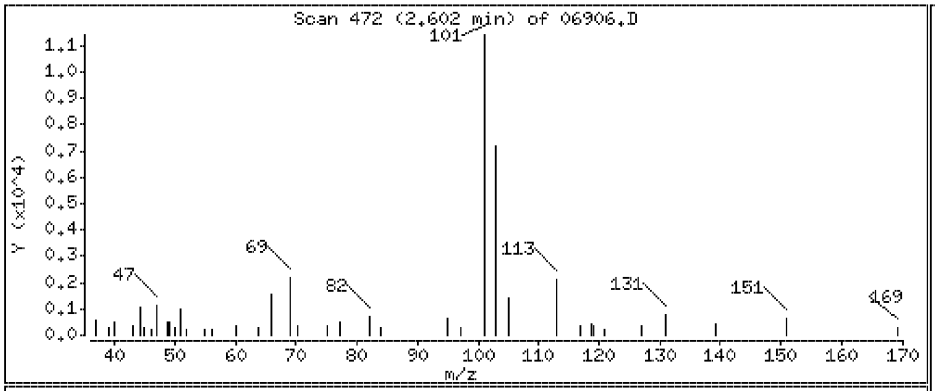
Operator: DR1

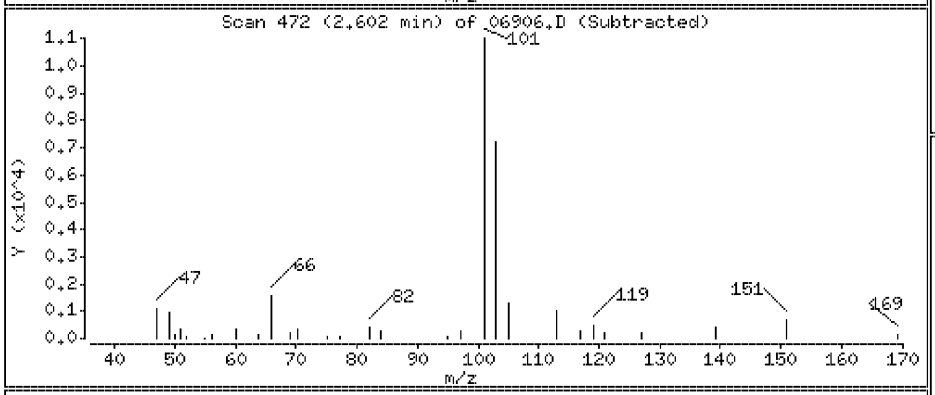
Column phase: J&W DB-5

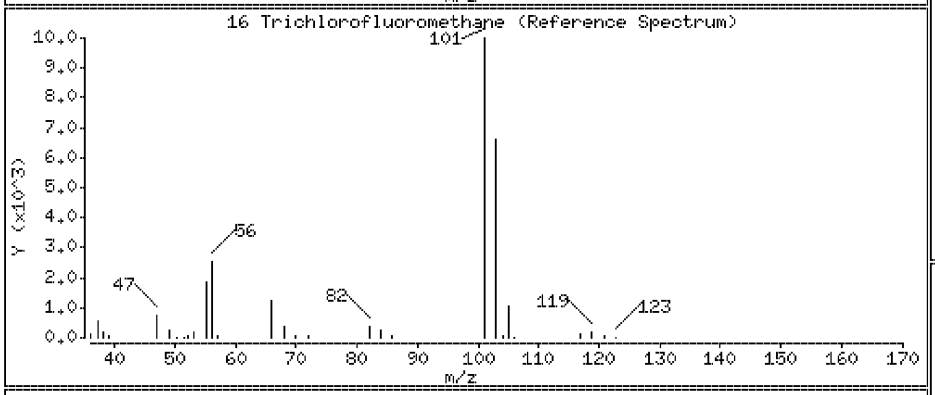
Column diameter: 0.32

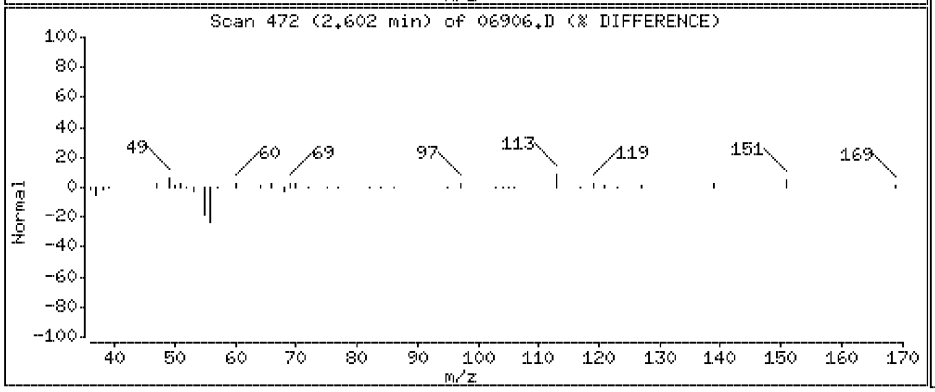
16 Trichlorofluoromethane

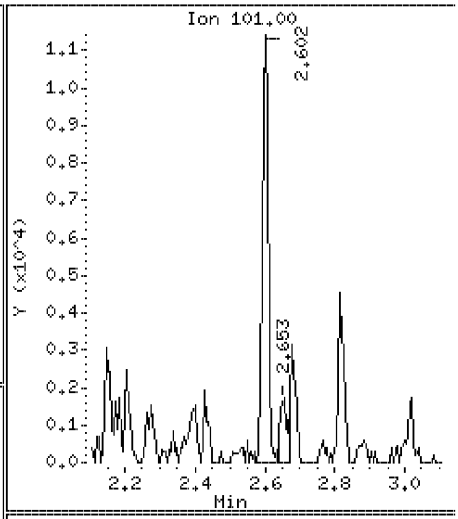
Concentration: 0.254 ppbv

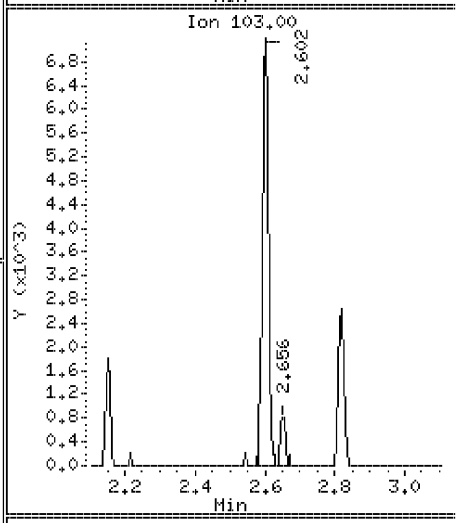


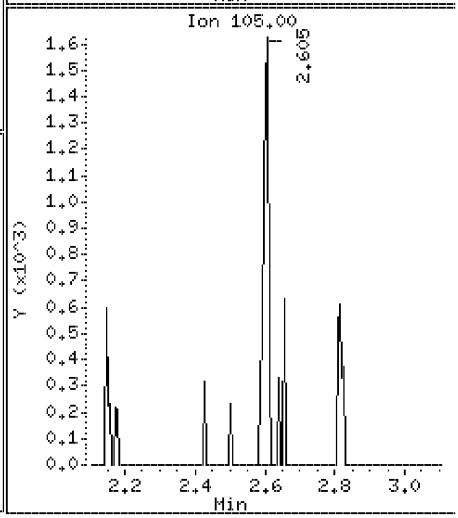












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

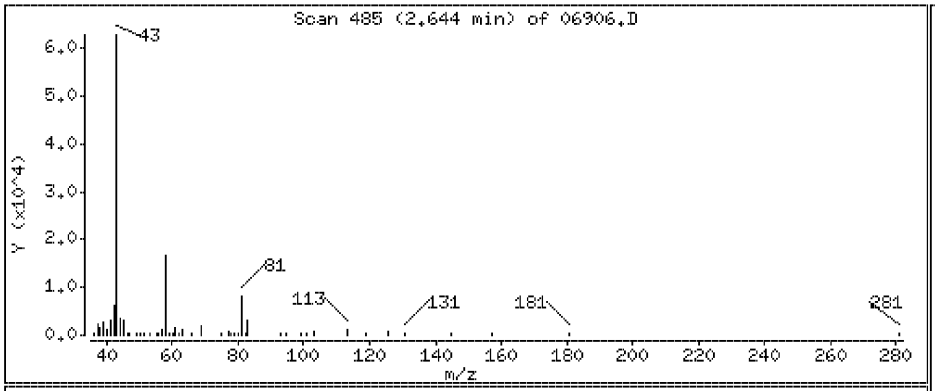
Operator: DR1

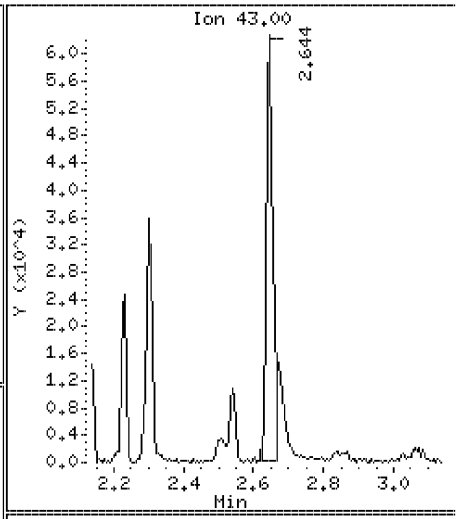
Column phase: J&W DB-5

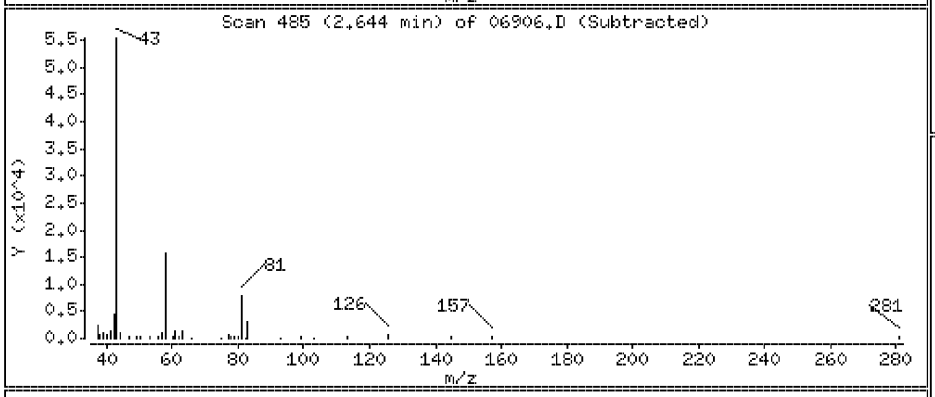
Column diameter: 0.32

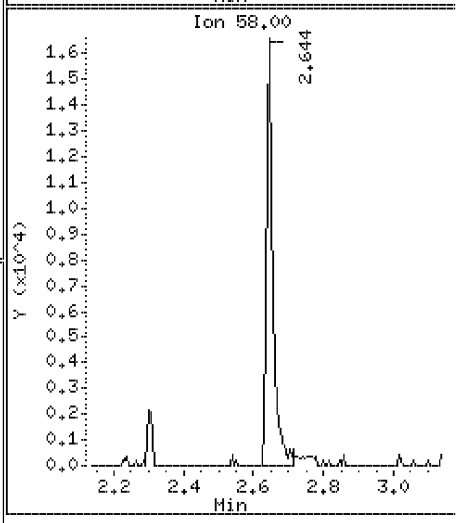
18 Acetone

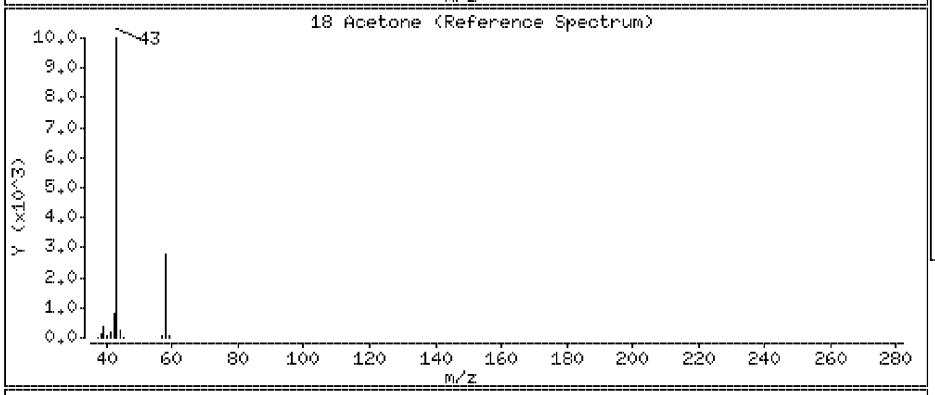
Concentration: 1.72 ppbv

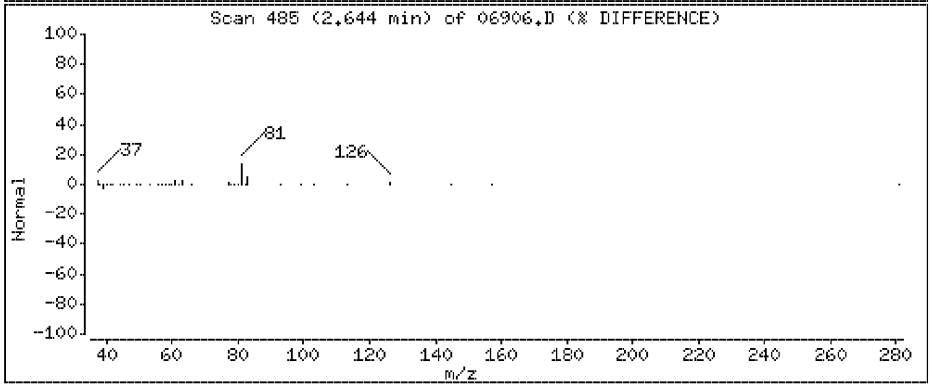












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

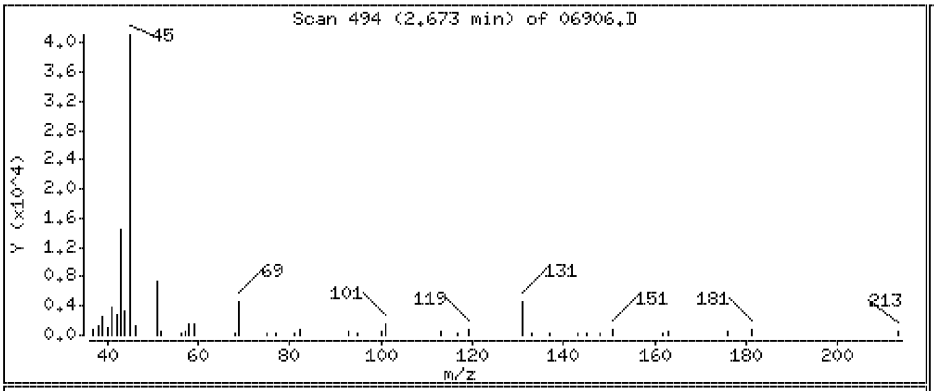
Operator: DR1

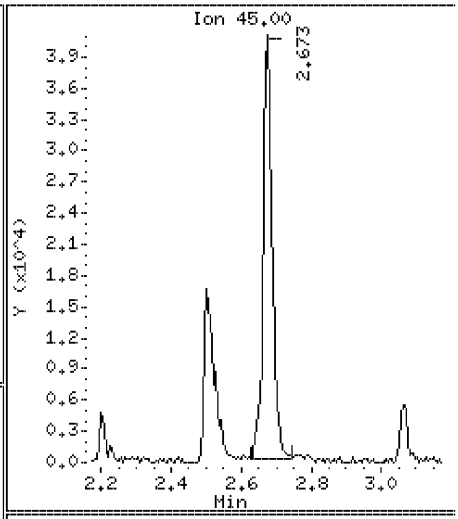
Column phase: J&W DB-5

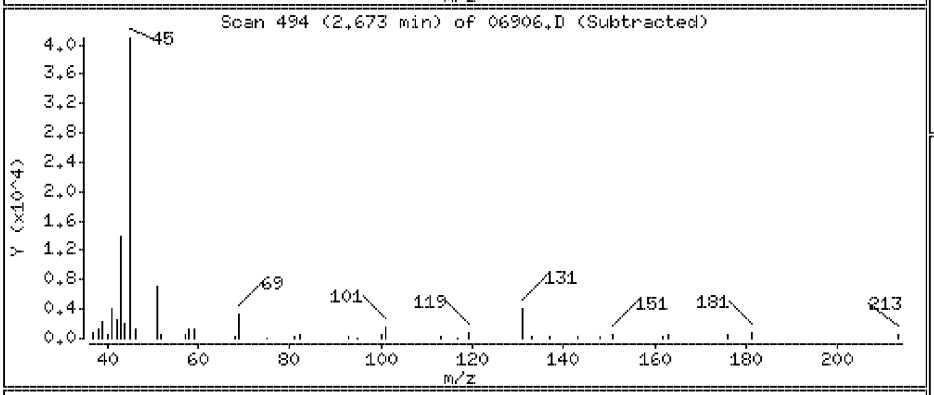
Column diameter: 0.32

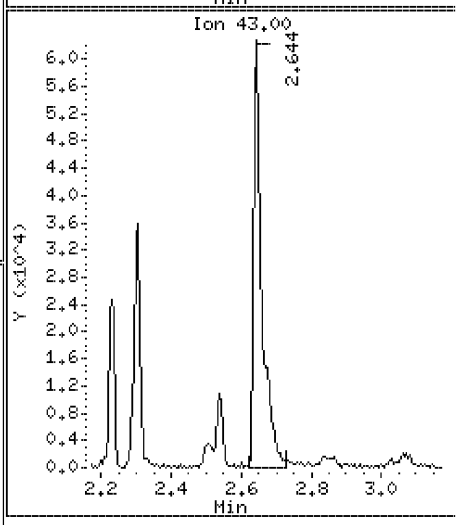
19 Isopropyl Alcohol

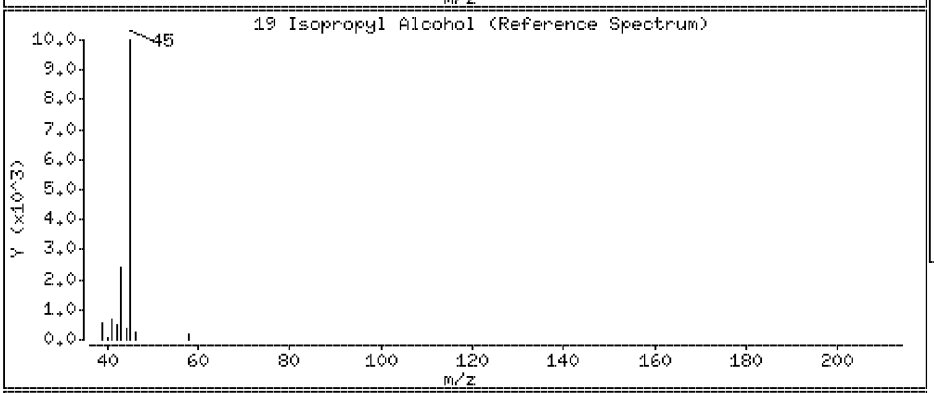
Concentration: 4.64 ppbv

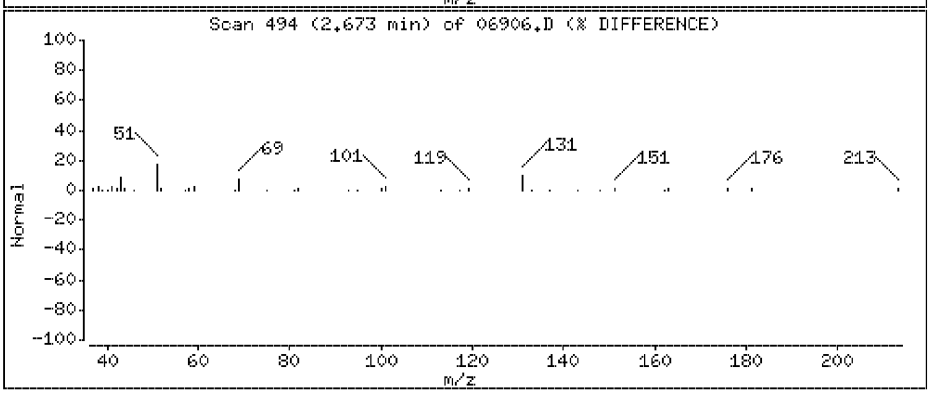












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

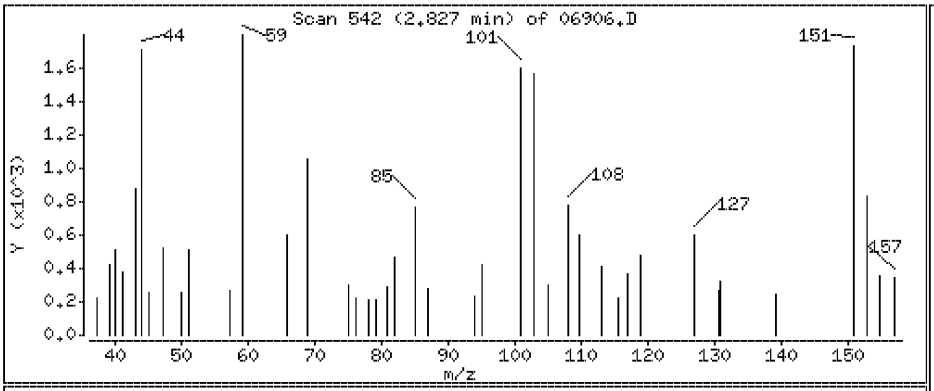
Operator: DR1

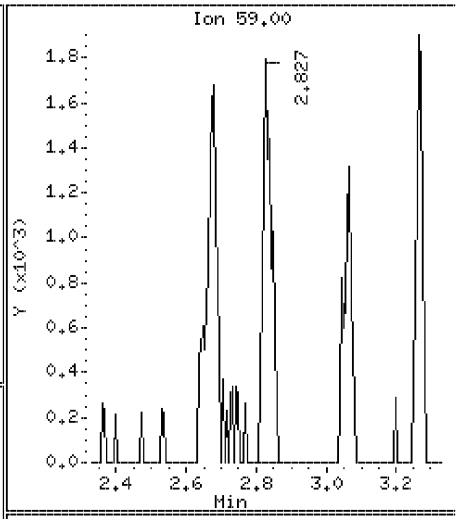
Column phase: J&W DB-5

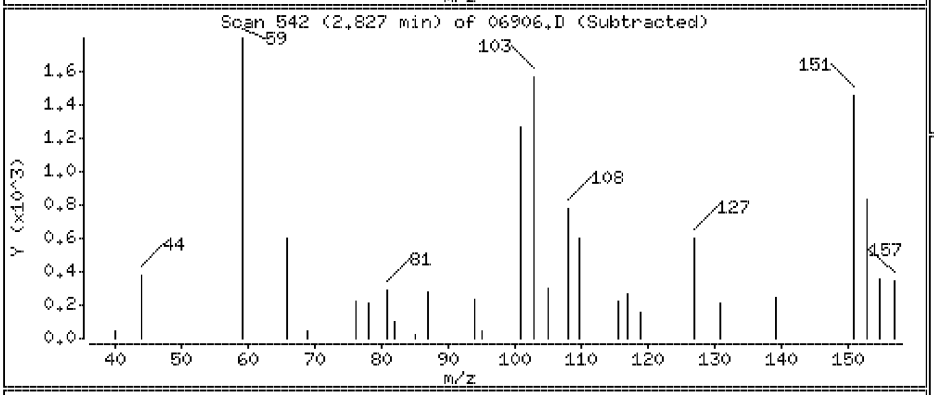
Column diameter: 0.32

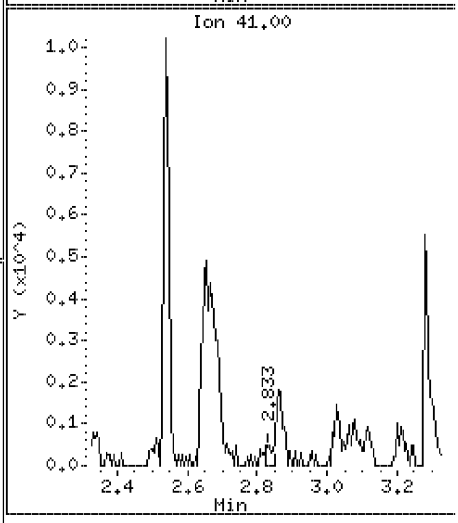
24 Tert Butyl Alcohol (TBA)

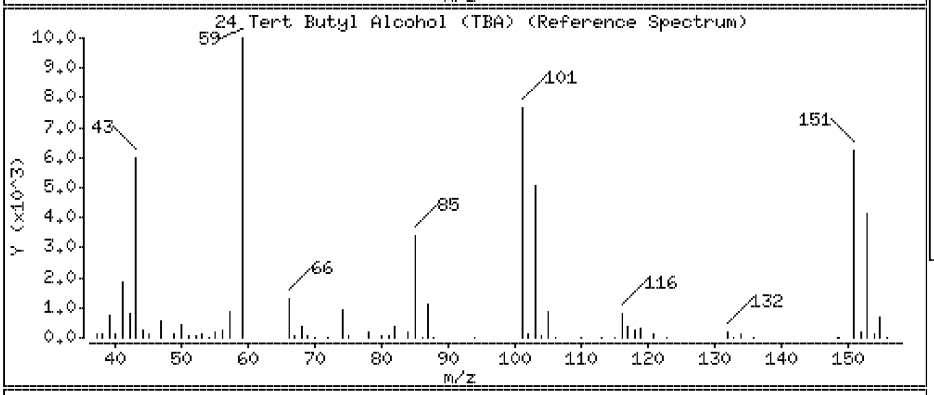
Concentration: 0.139 ppbv

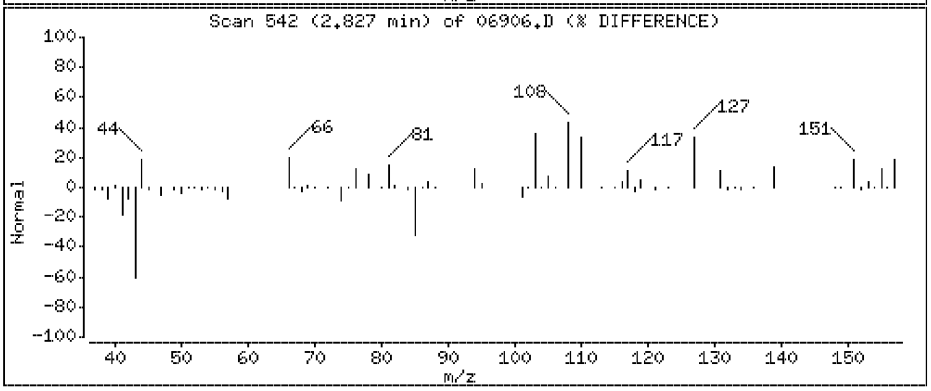












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

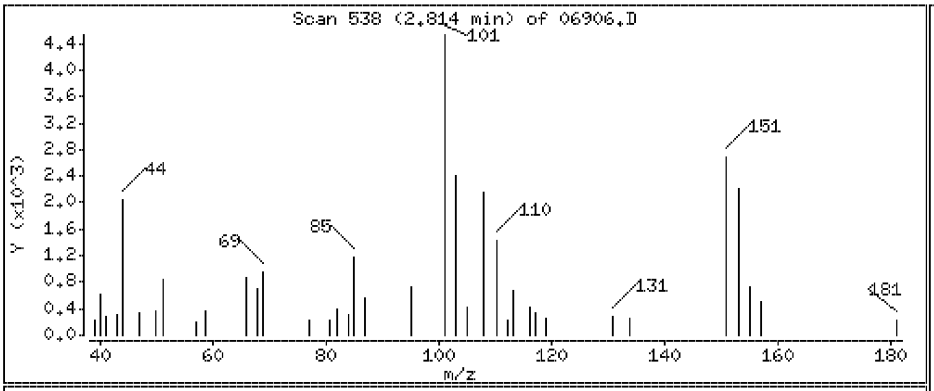
Operator: DR1

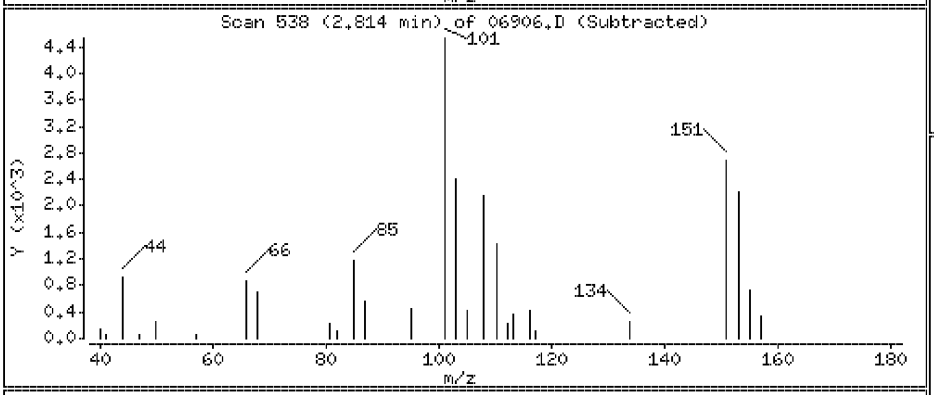
Column phase: J&W DB-5

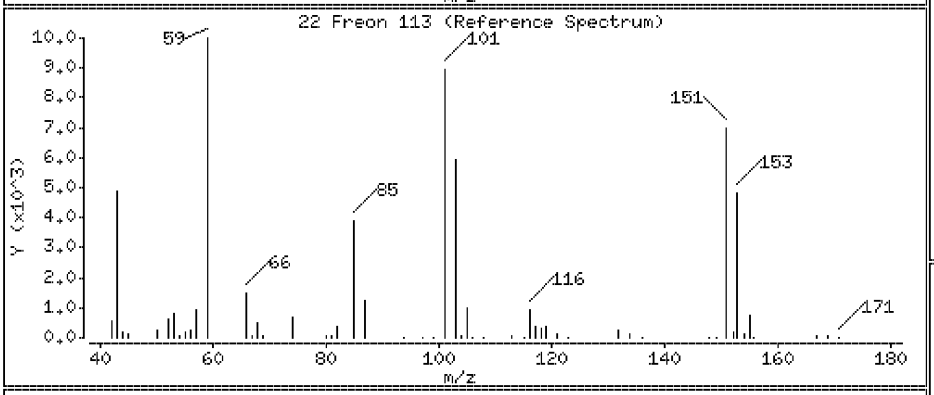
Column diameter: 0.32

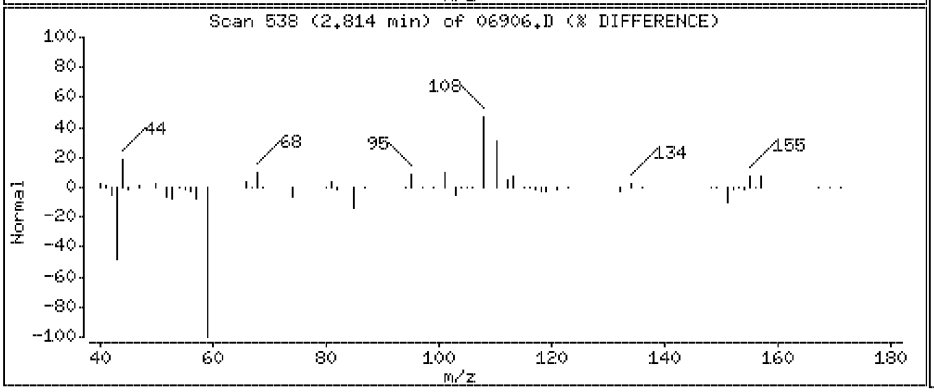
22 Freon 113

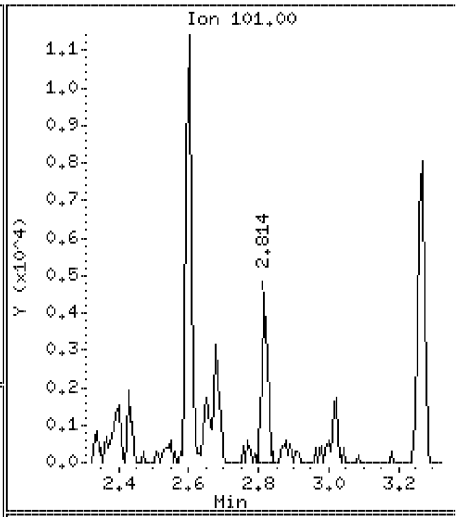
Concentration: 0.127 ppbv

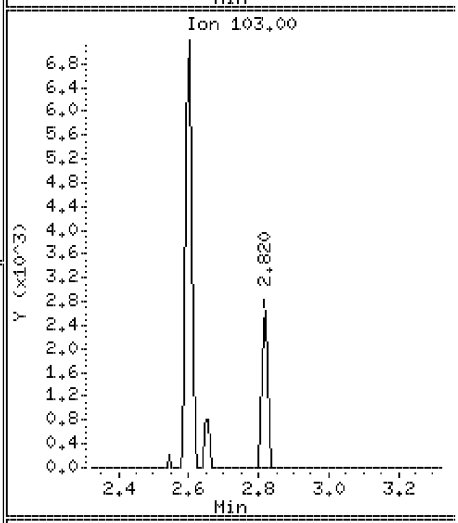


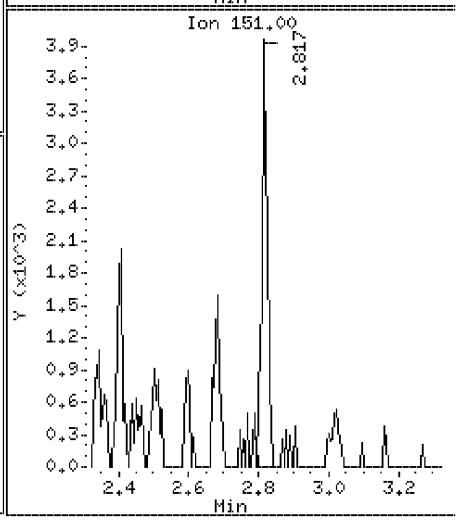












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

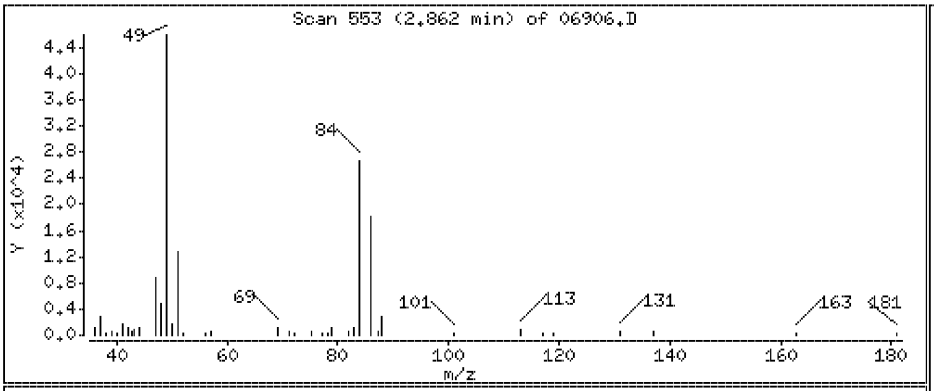
Operator: DR1

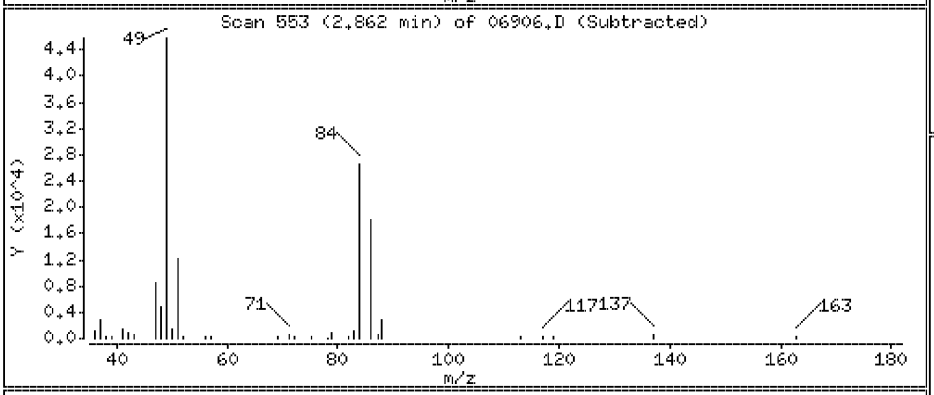
Column phase: J&W DB-5

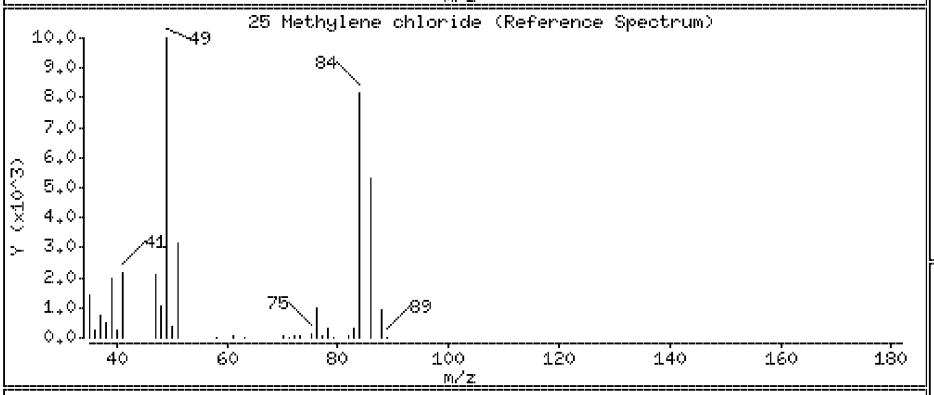
Column diameter: 0.32

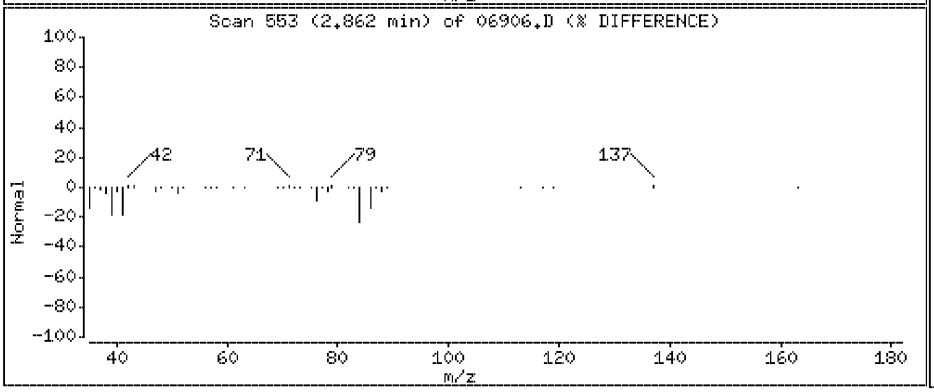
25 Methylene chloride

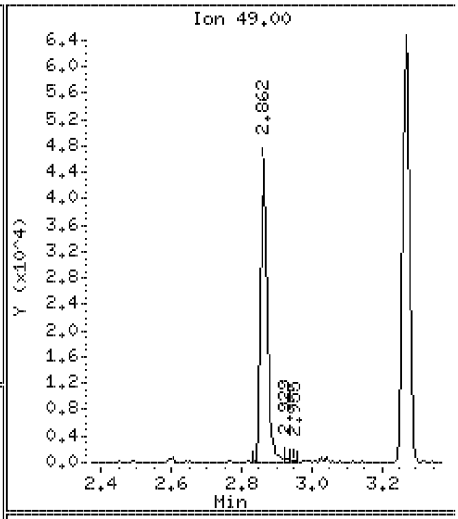
Concentration: 2.08 ppbv

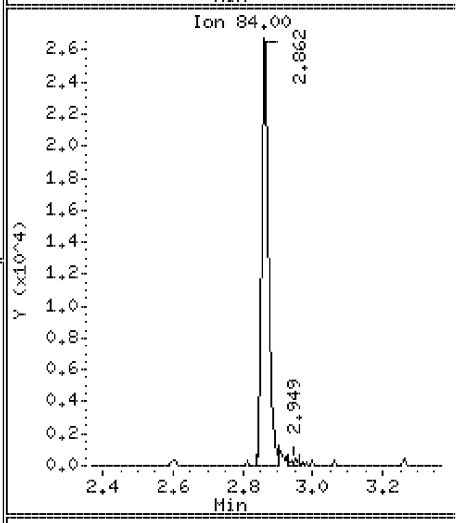


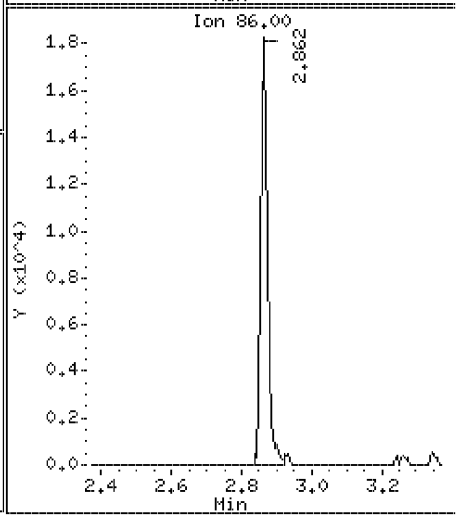












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

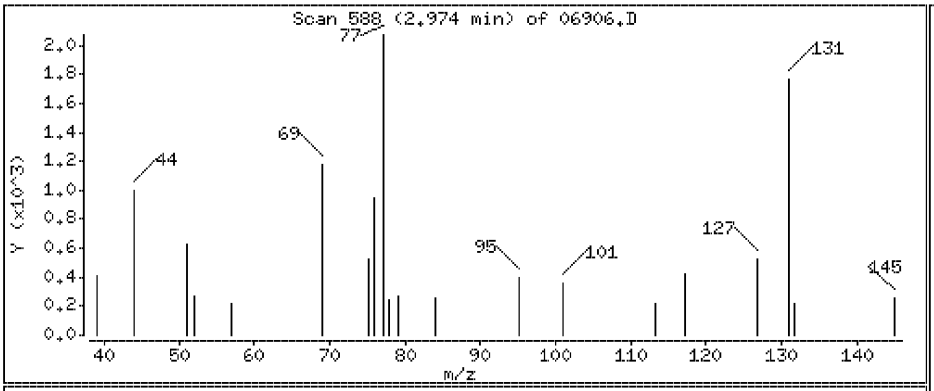
Operator: DR1

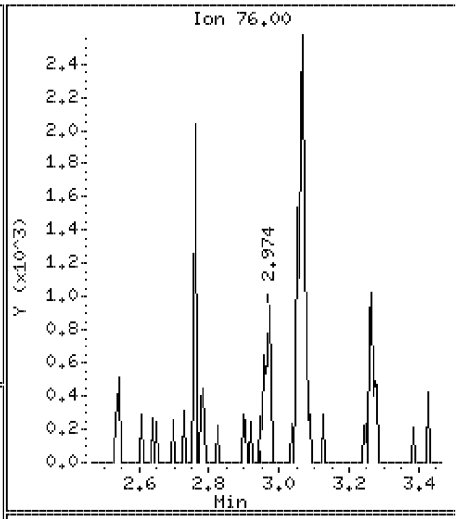
Column phase: J&W DB-5

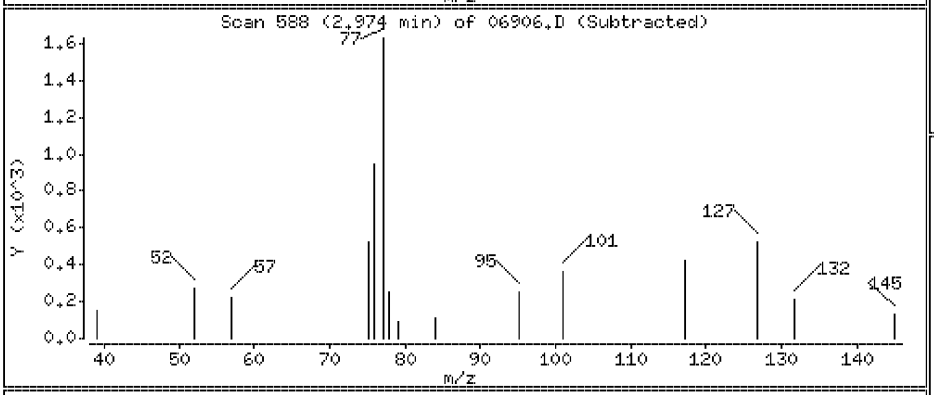
Column diameter: 0.32

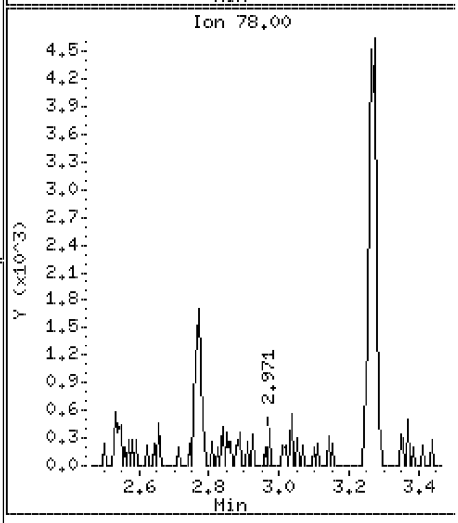
27 Carbon Disulfide

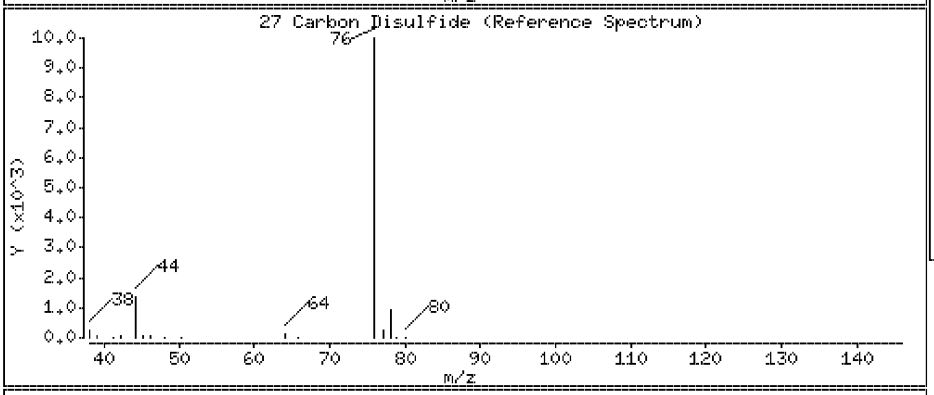
Concentration: 0.0275 ppbv

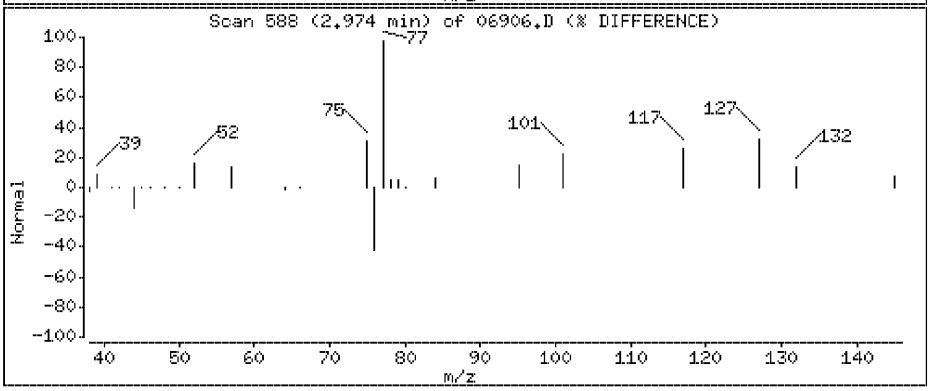












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

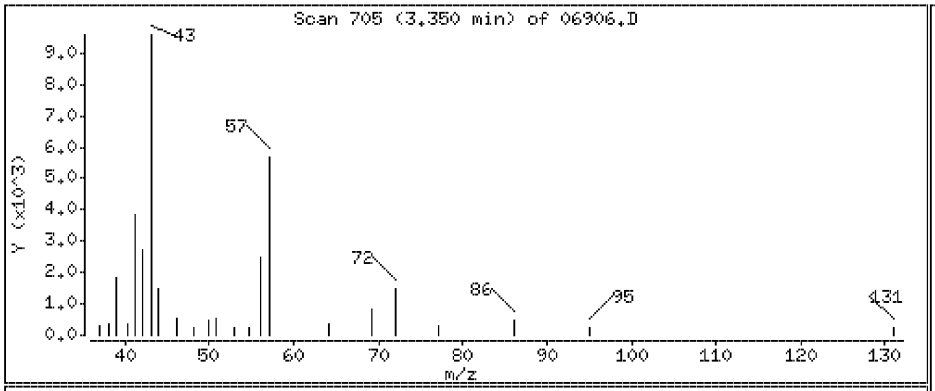
Operator: DR1

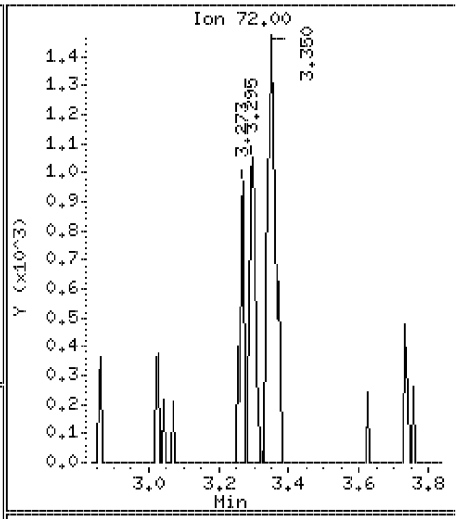
Column phase: J&W DB-5

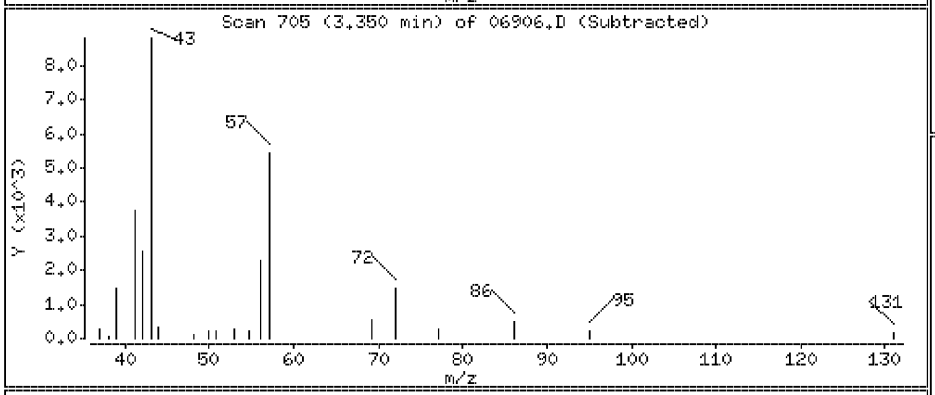
Column diameter: 0.32

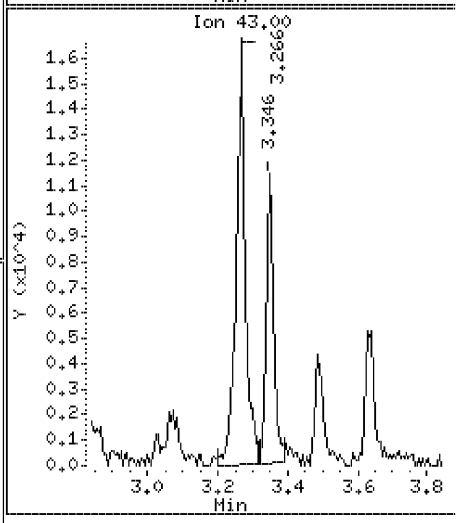
33 Methyl Ethyl Ketone

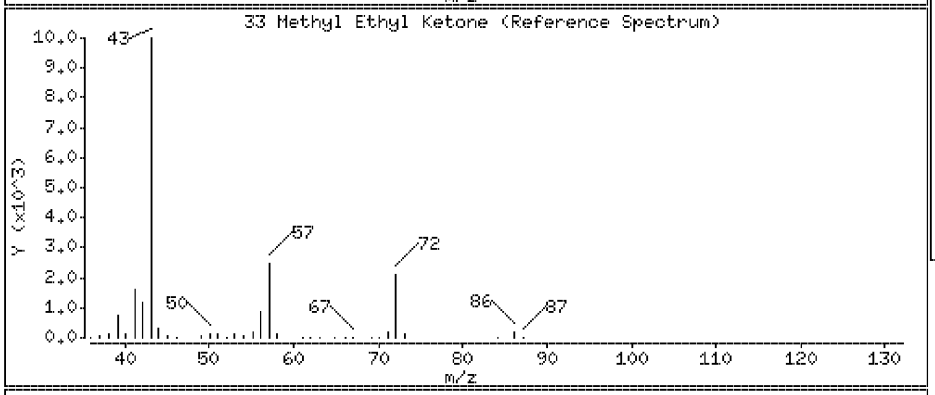
Concentration: 0.332 ppbv

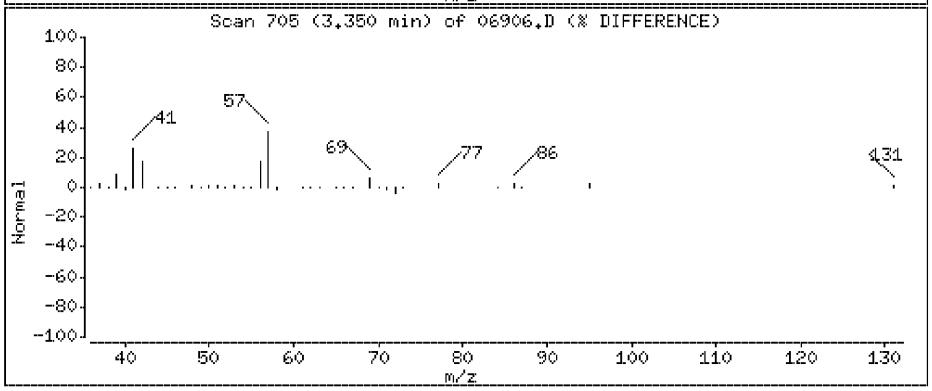












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

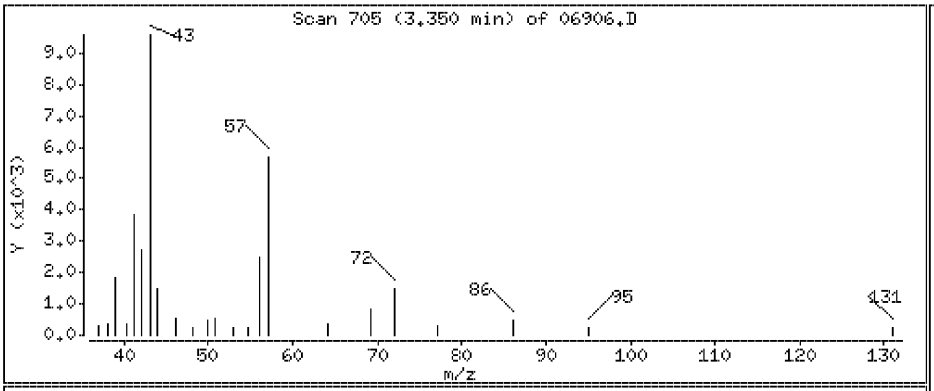
Operator: DR1

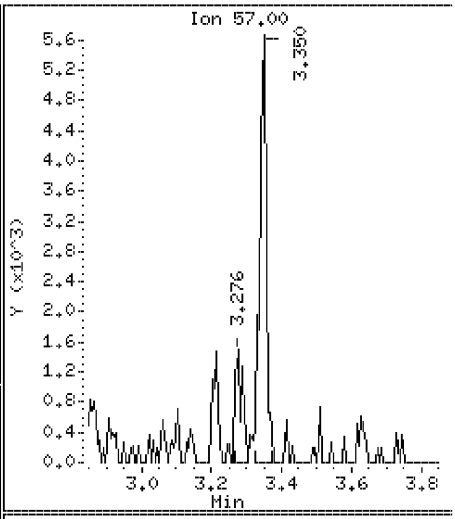
Column phase: J&W DB-5

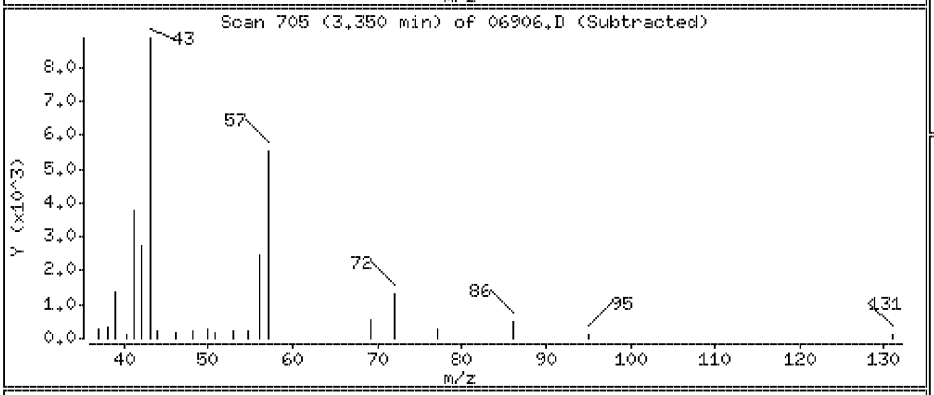
Column diameter: 0.32

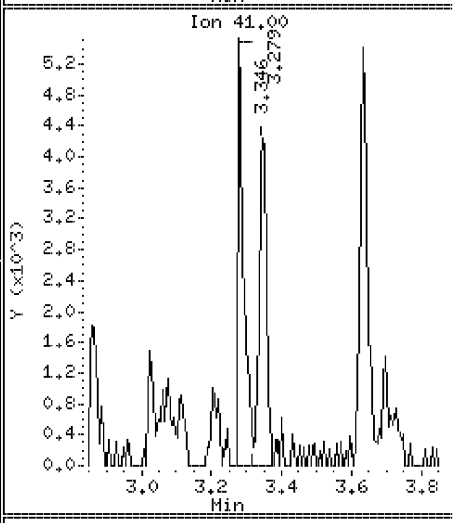
34 n-Hexane

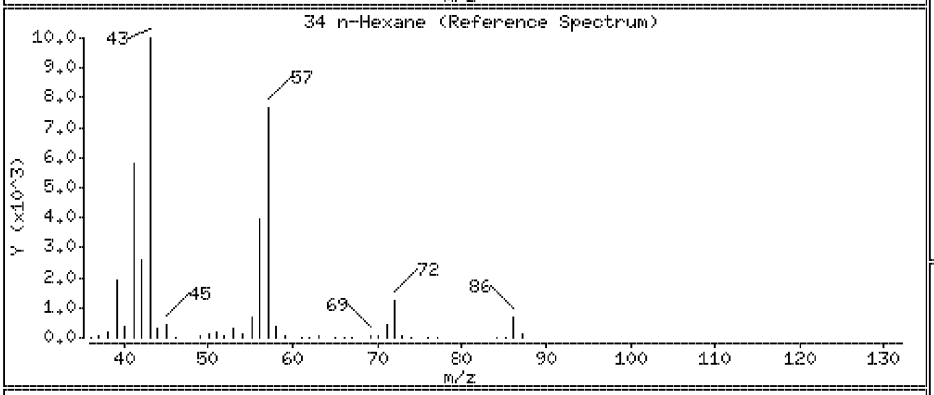
Concentration: 0.298 ppbv

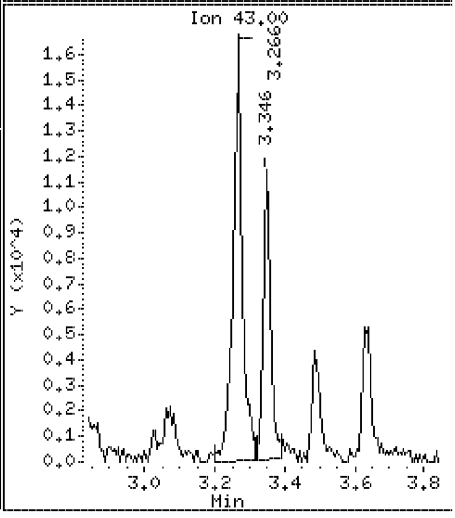


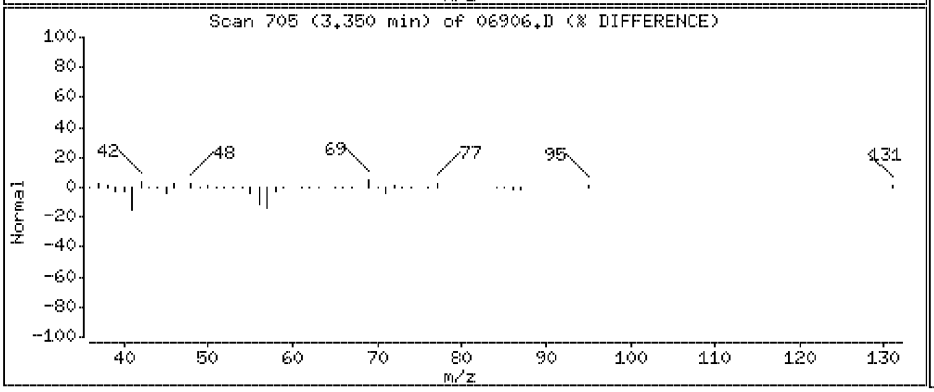












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

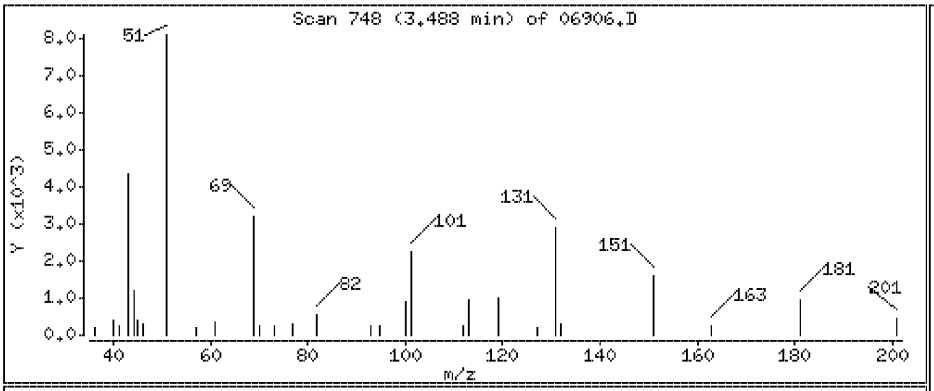
Operator: DR1

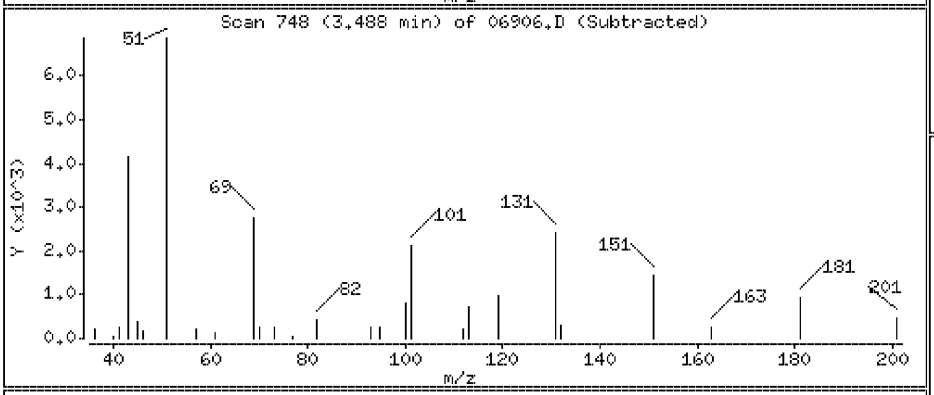
Column phase: J&W DB-5

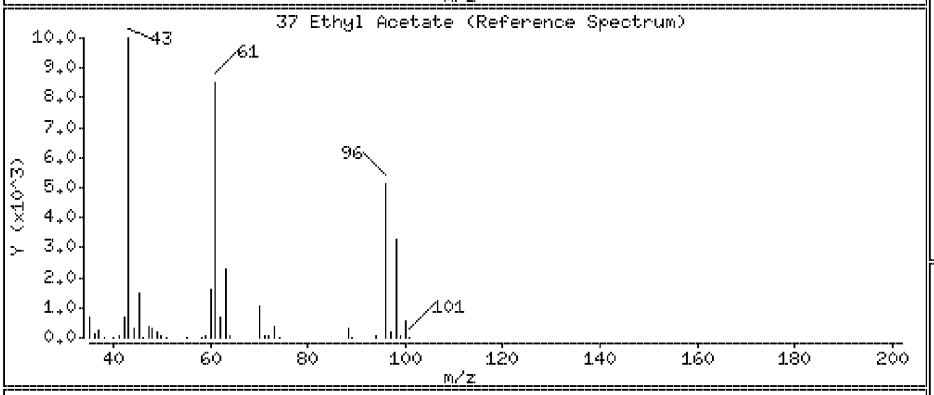
Column diameter: 0.32

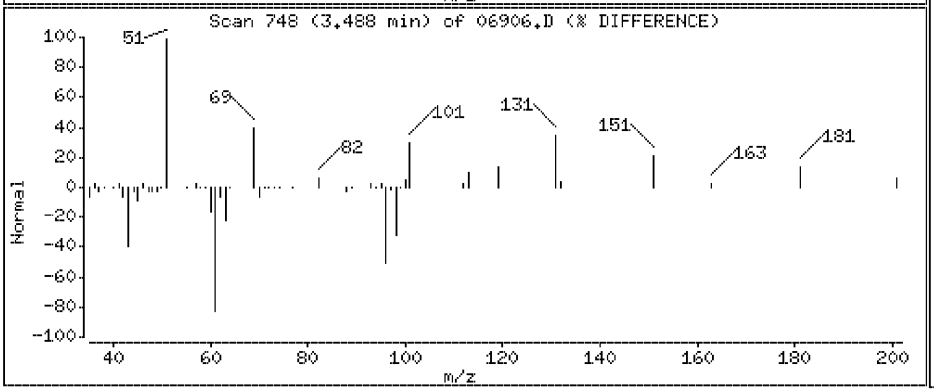
37 Ethyl Acetate

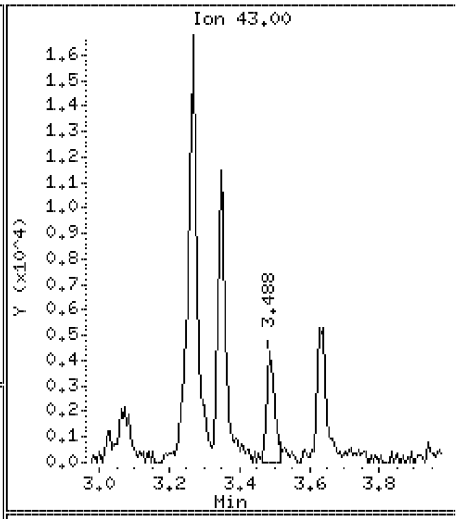
Concentration: 0.174 ppbv

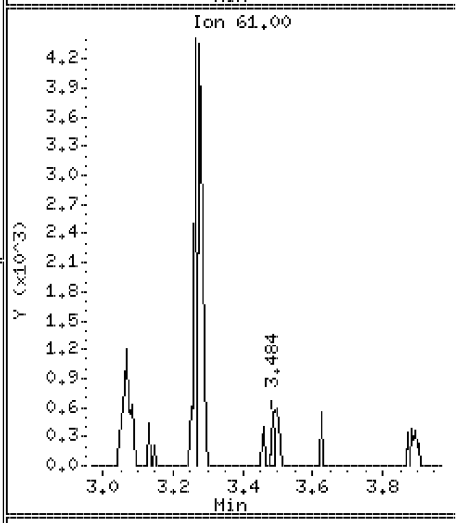


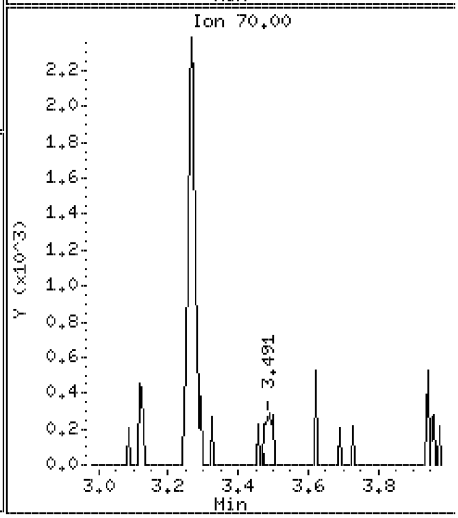












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

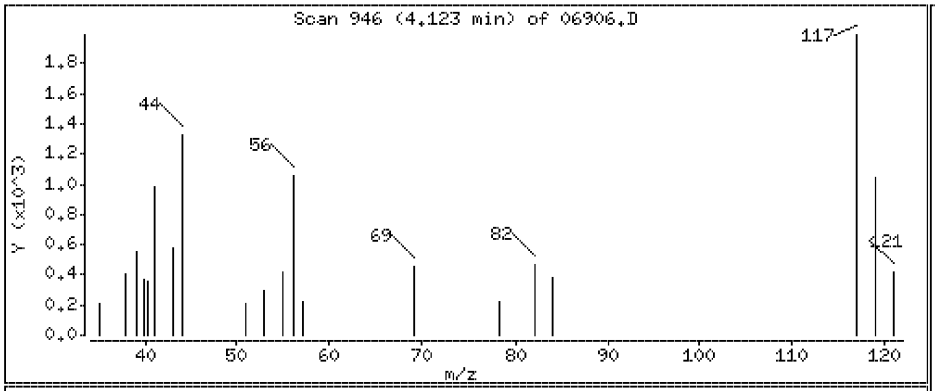
Operator: DR1

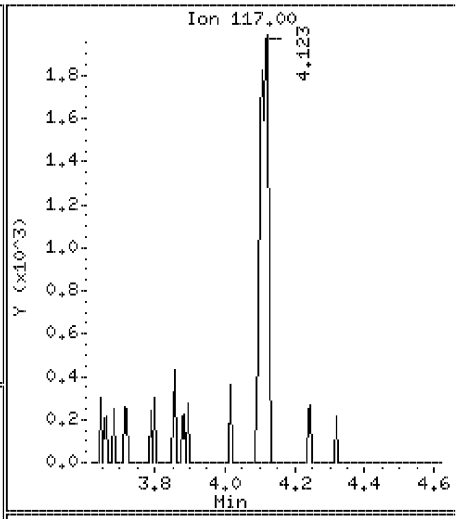
Column phase: J&W DB-5

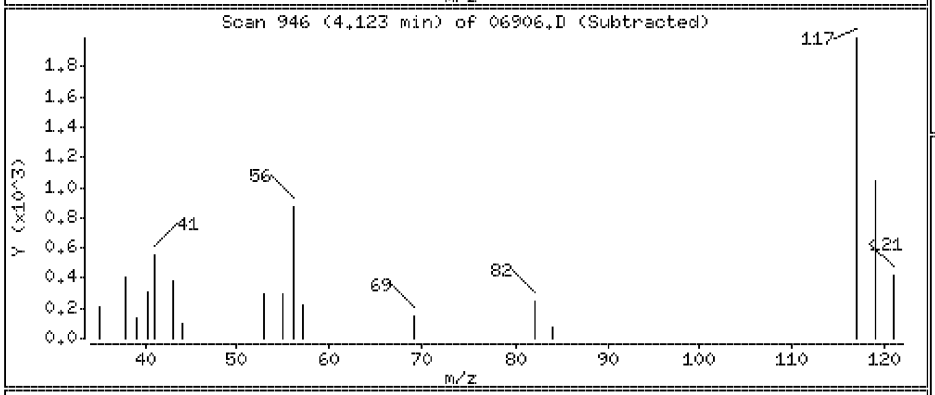
Column diameter: 0.32

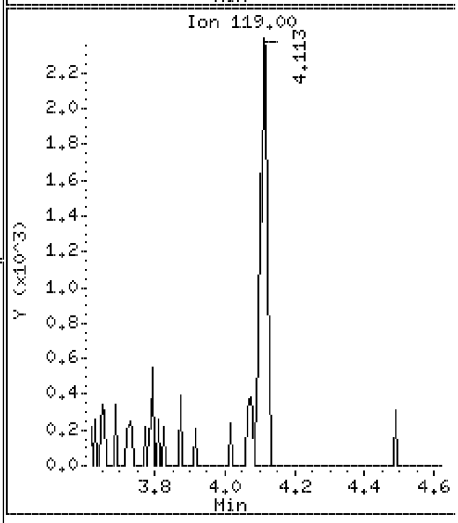
45 Carbon tetrachloride

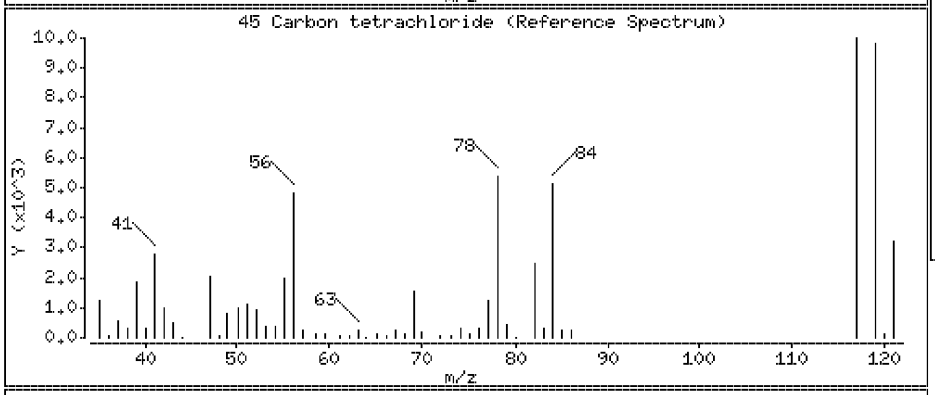
Concentration: 0.0850 ppbv

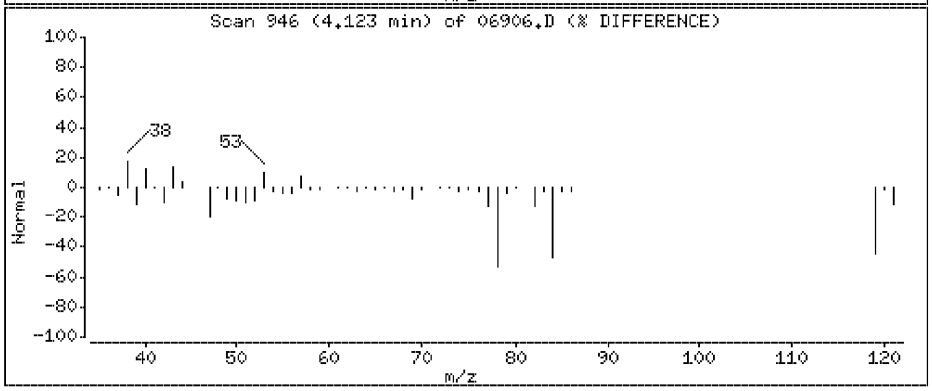












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

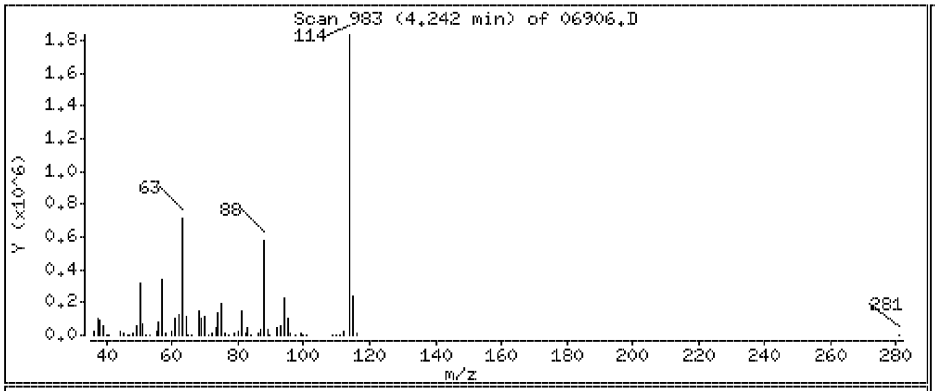
Operator: DR1

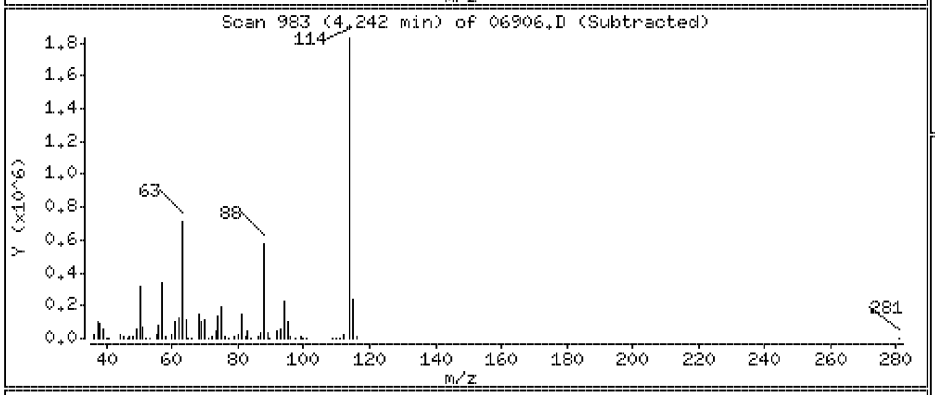
Column phase: J&W DB-5

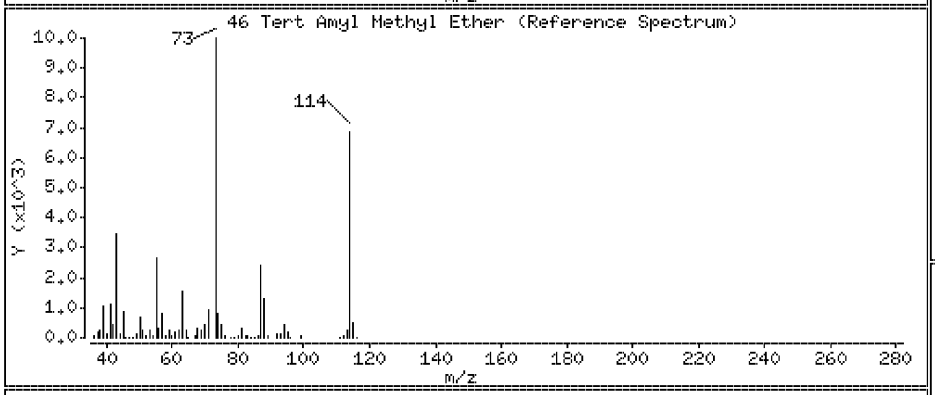
Column diameter: 0.32

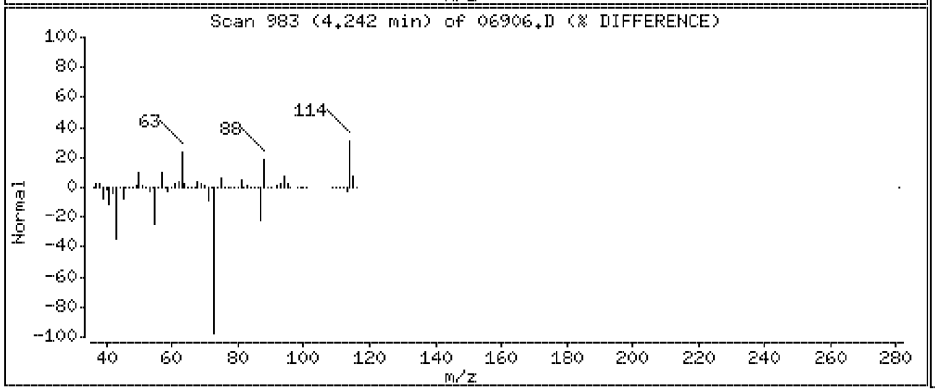
46 Tert Amyl Methyl Ether

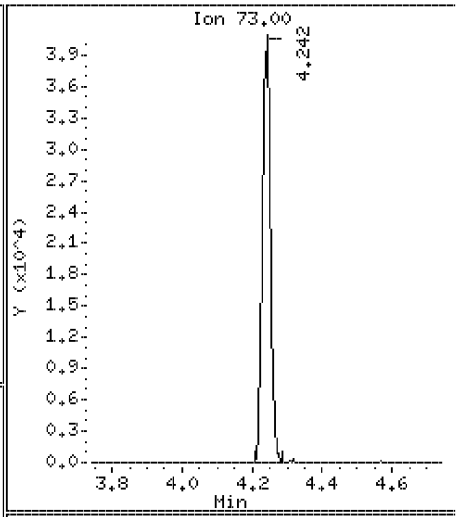
Concentration: 0.0209 ppbv

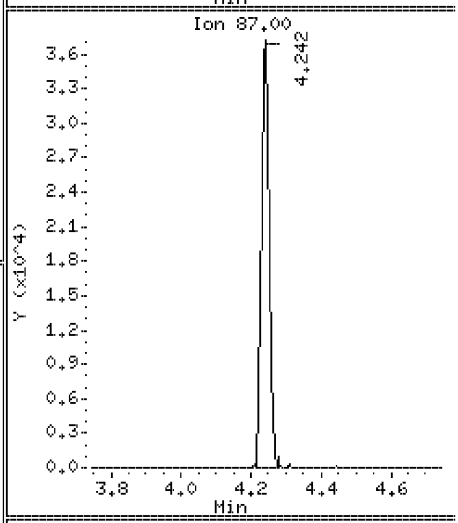


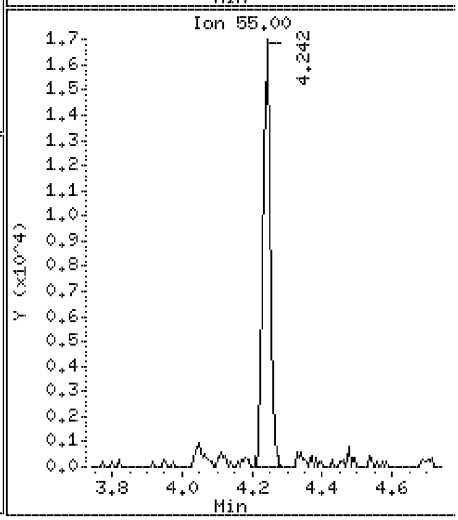












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

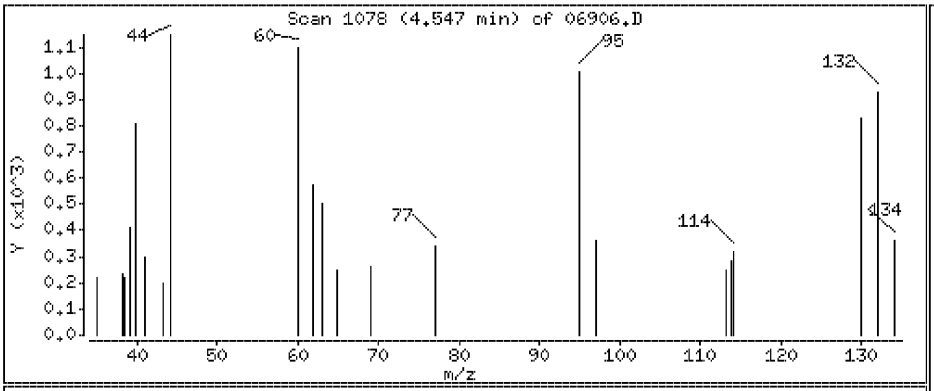
Operator: DR1

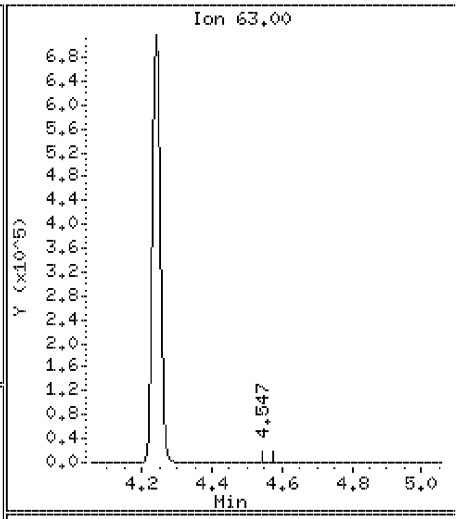
Column phase: J&W DB-5

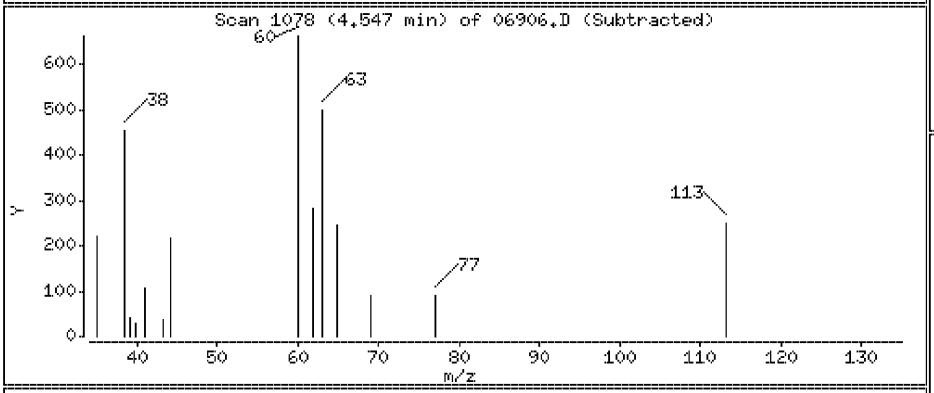
Column diameter: 0.32

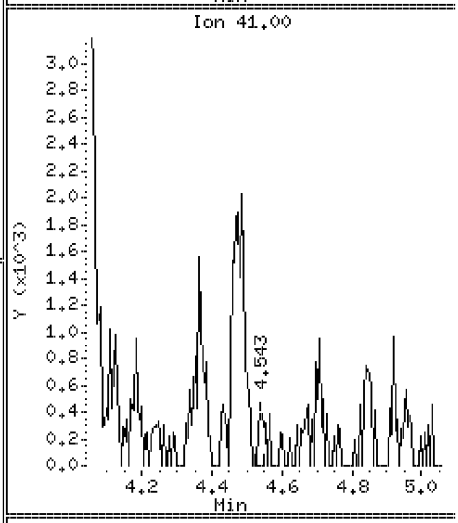
50 1,2-Dichloropropane

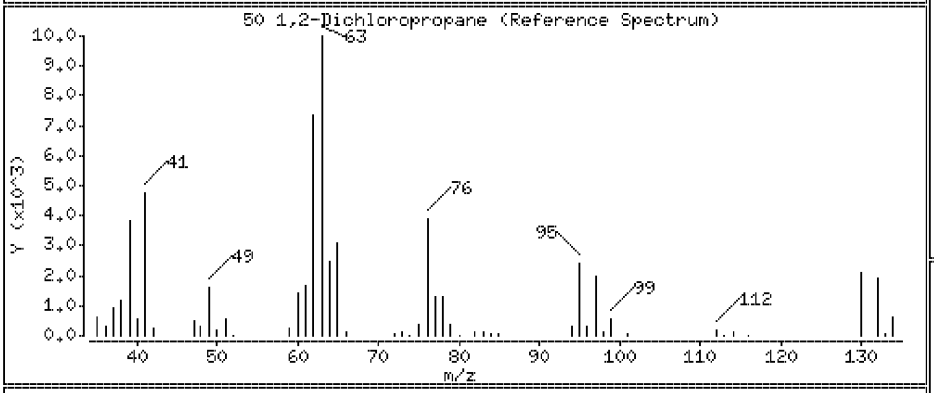
Concentration: 0.0232 ppbv

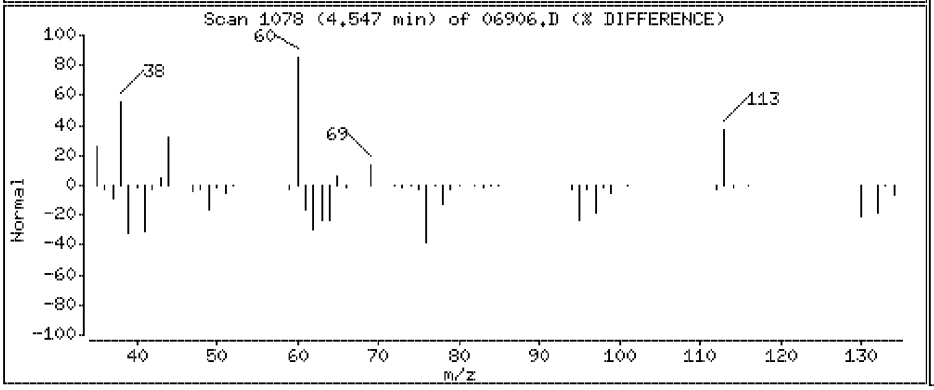


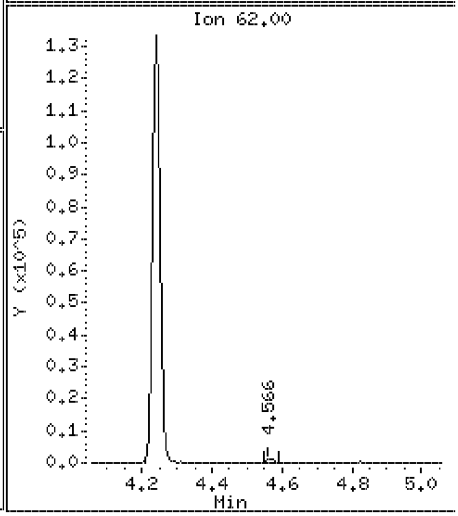












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

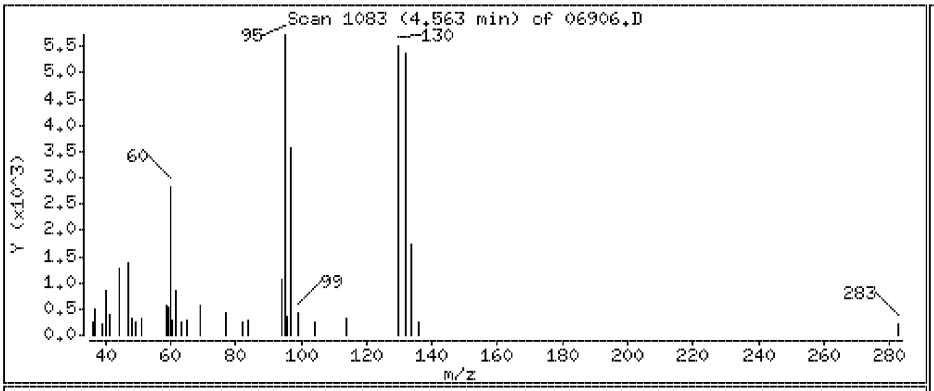
Operator: DR1

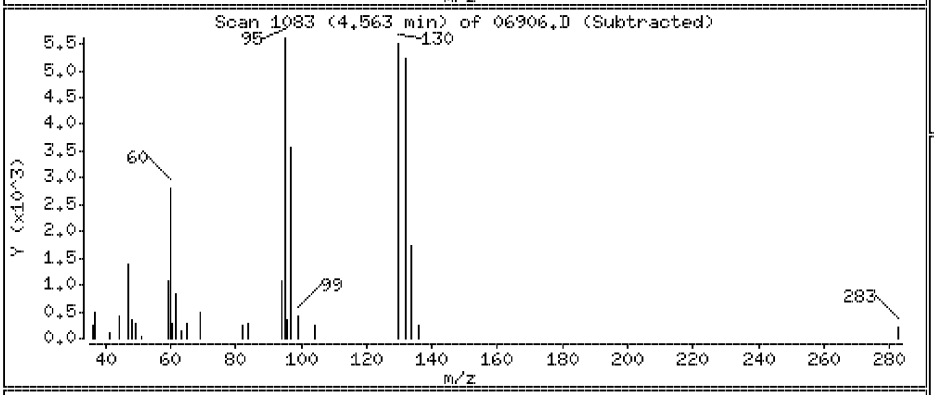
Column phase: J&W DB-5

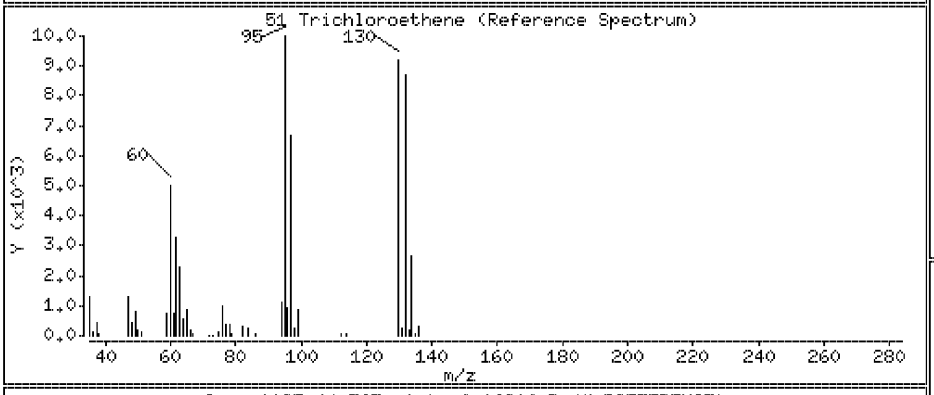
Column diameter: 0.32

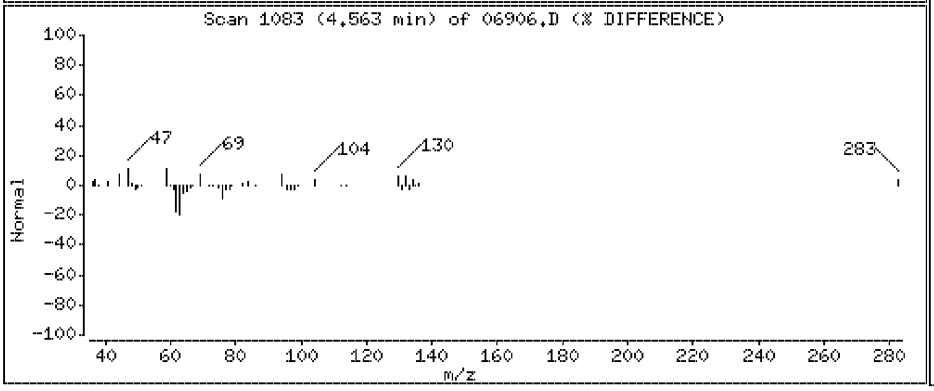
51 Trichloroethene

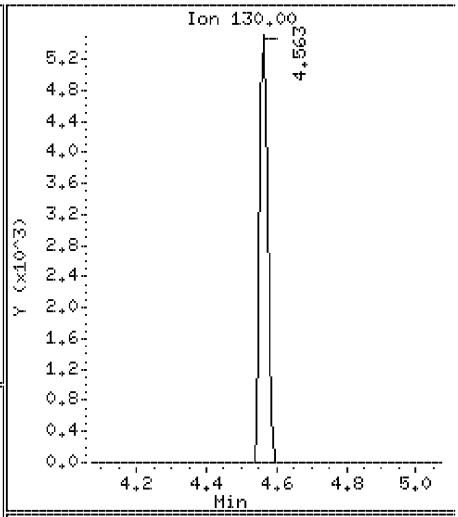
Concentration: 0.345 ppbv

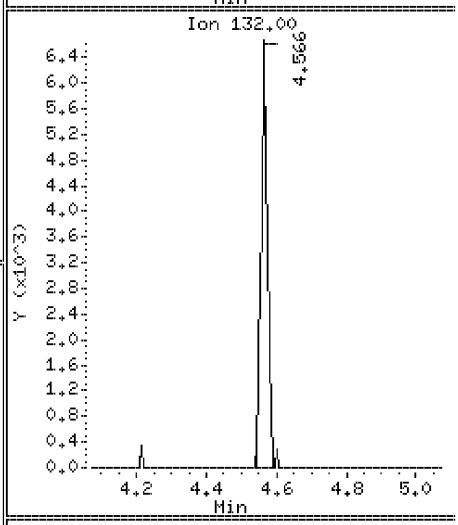


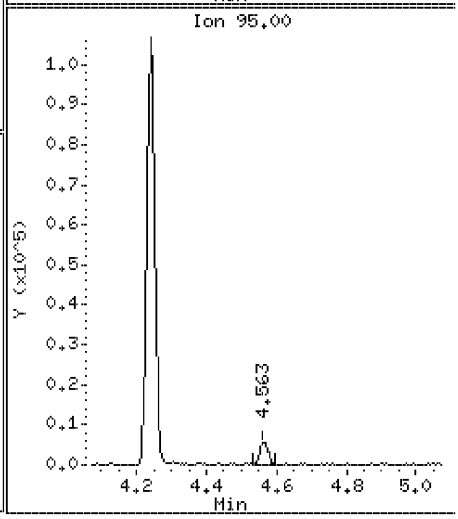












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

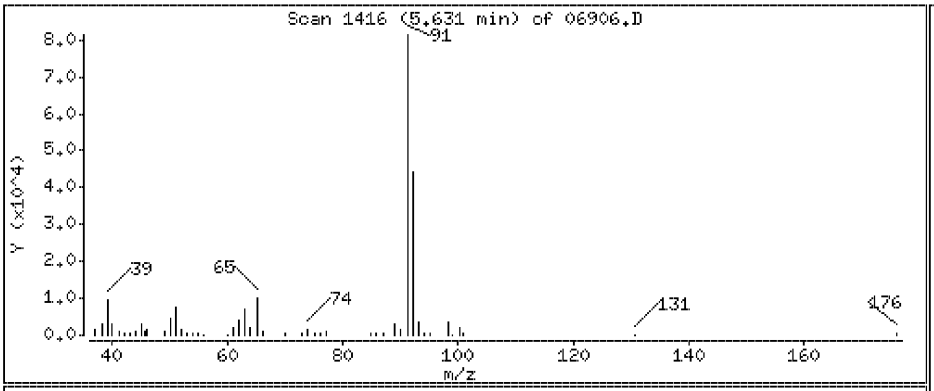
Operator: DR1

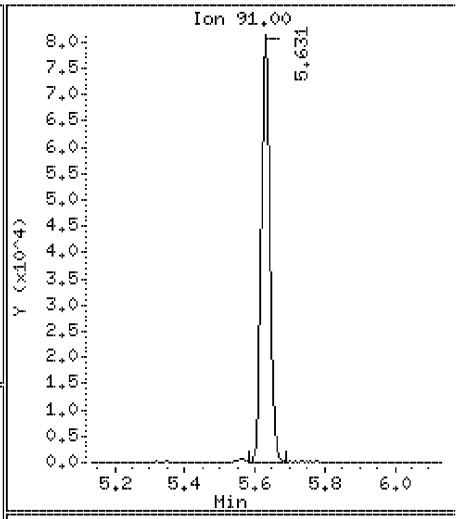
Column phase: J&W DB-5

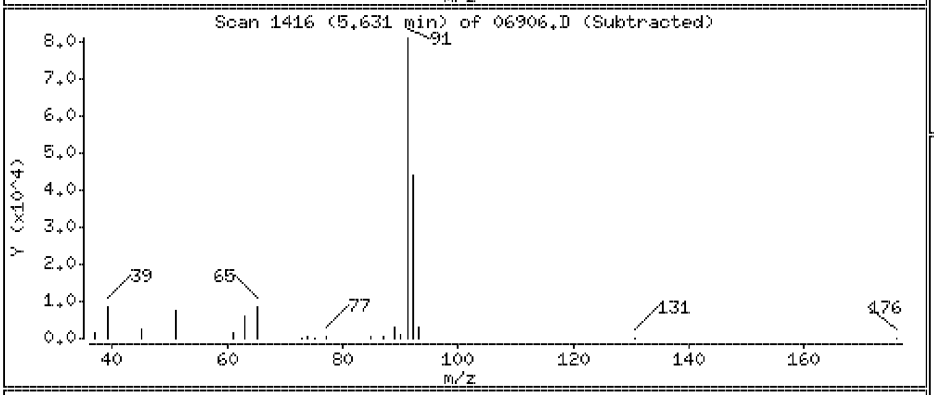
Column diameter: 0.32

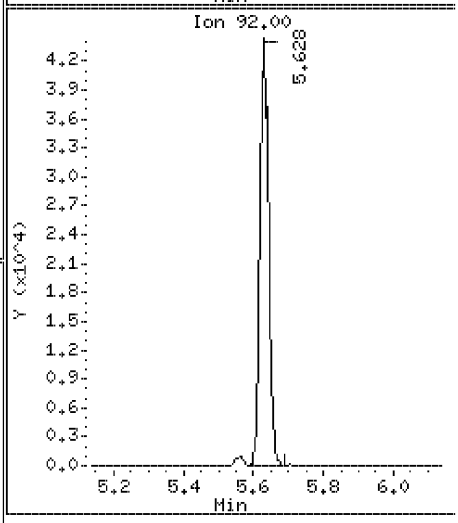
60 Toluene

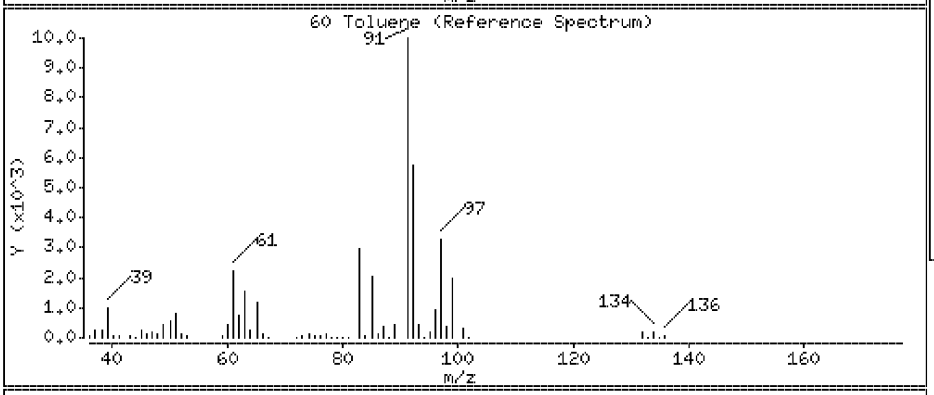
Concentration: 2.19 ppbv

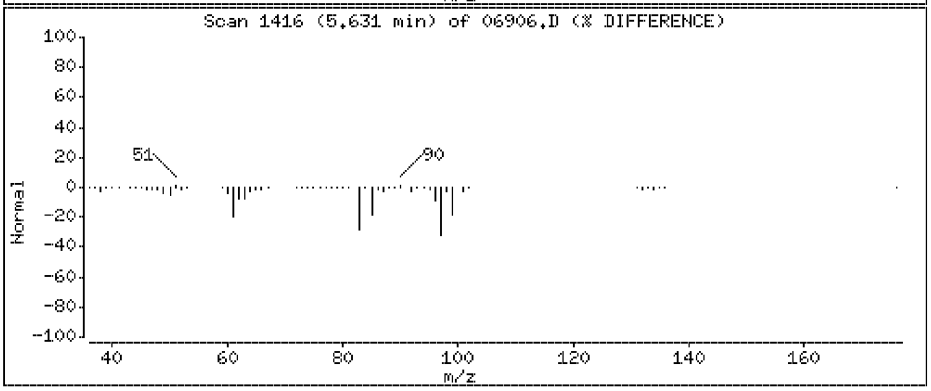












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

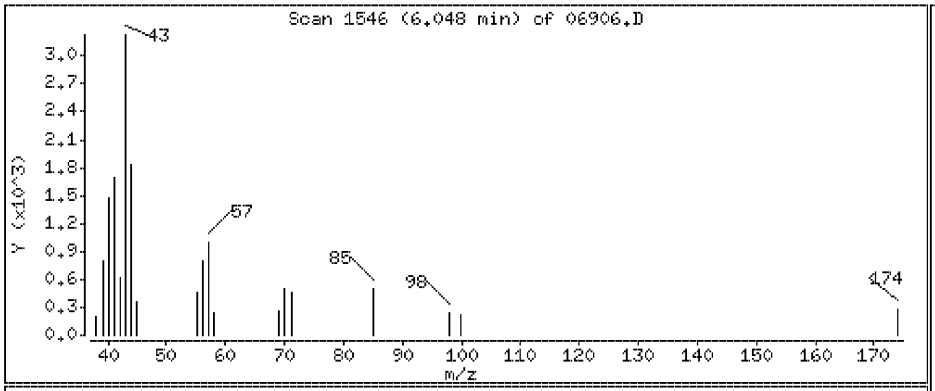
Operator: DR1

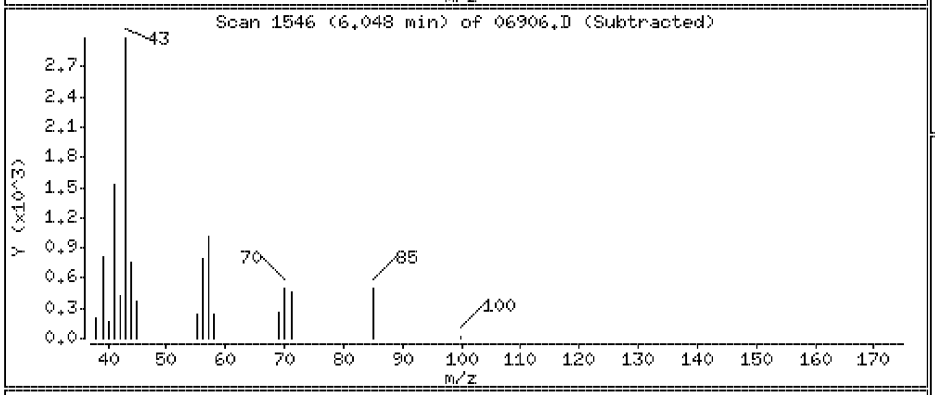
Column phase: J&W DB-5

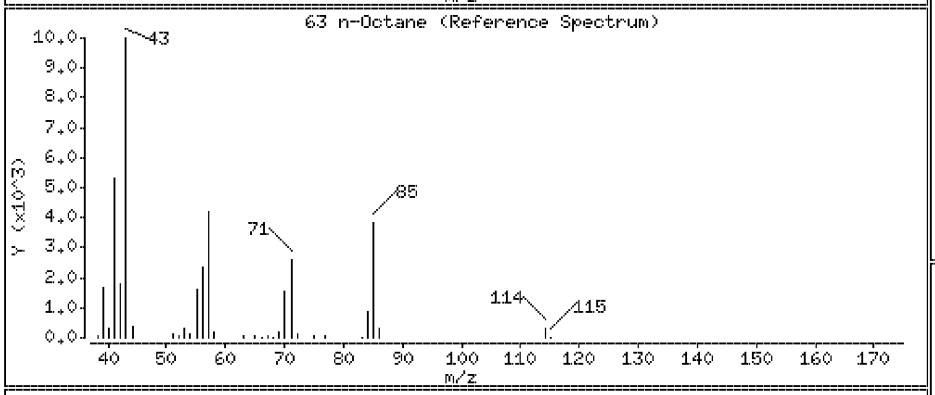
Column diameter: 0.32

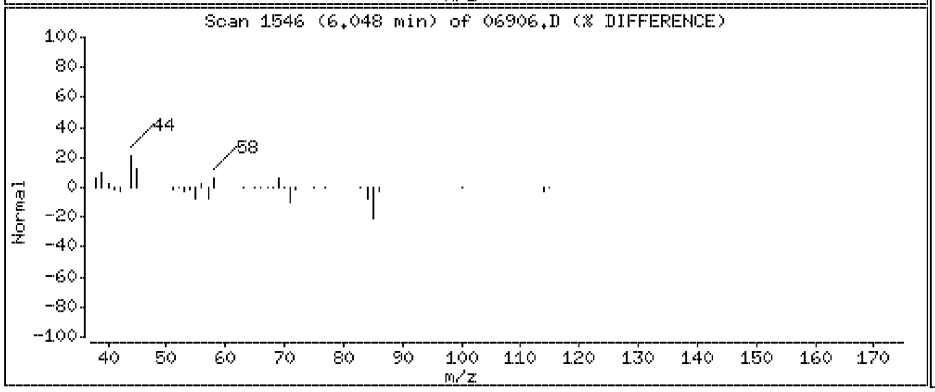
63 n-Octane

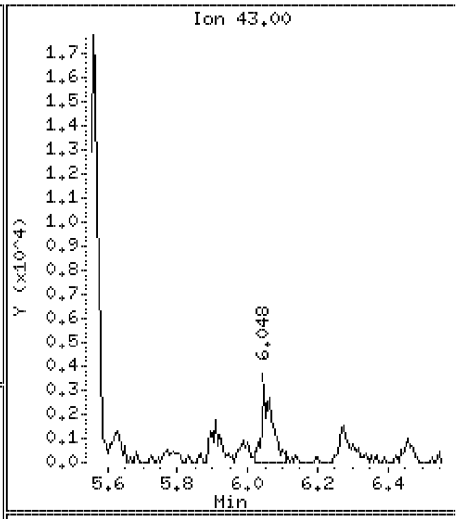
Concentration: 0.166 ppbv

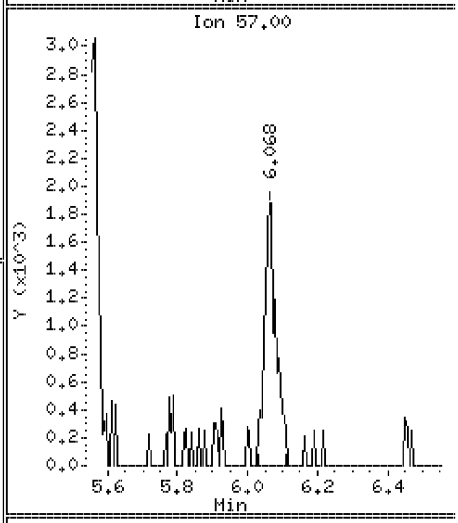


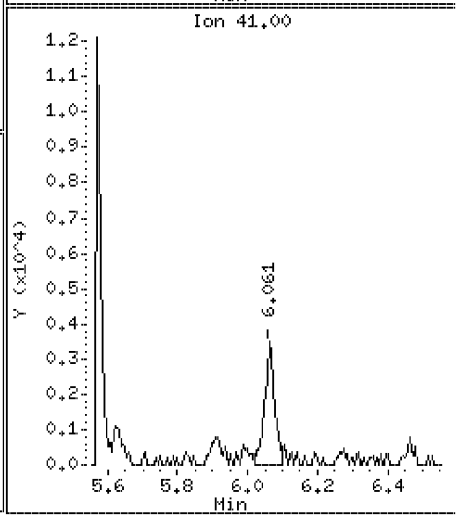












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

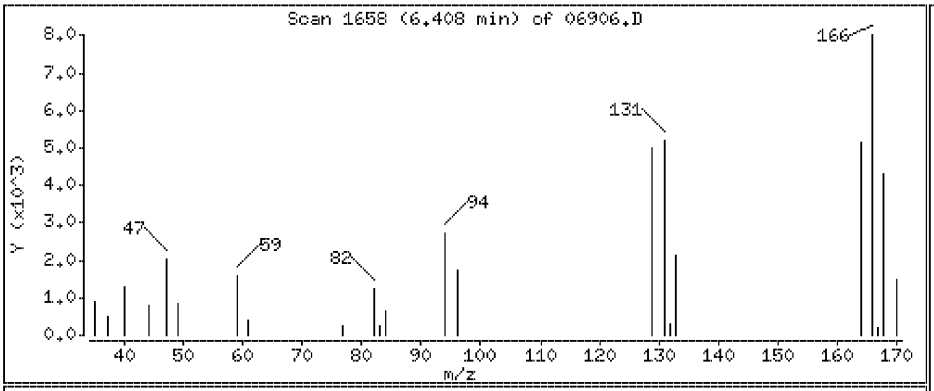
Operator: DR1

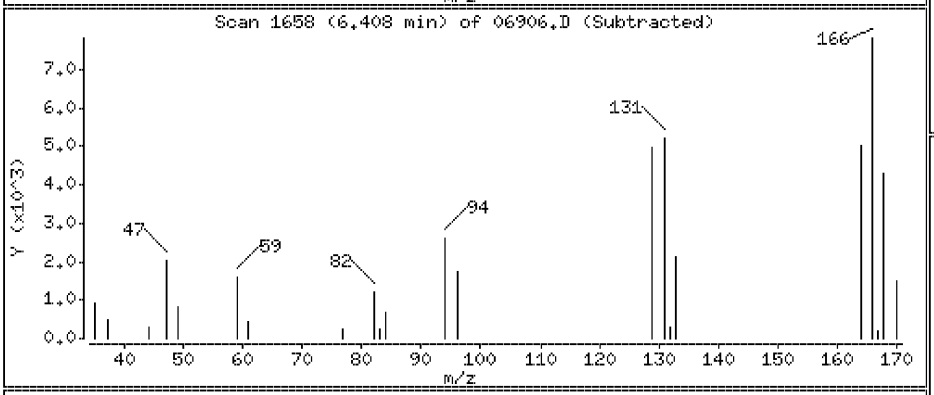
Column phase: J&W DB-5

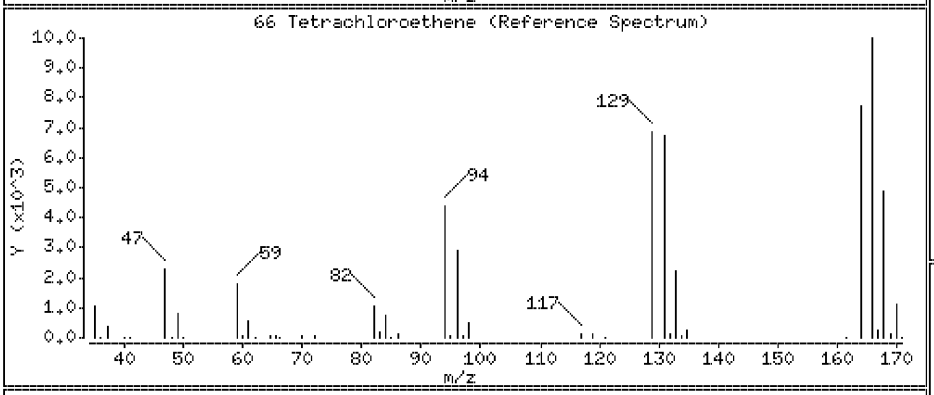
Column diameter: 0.32

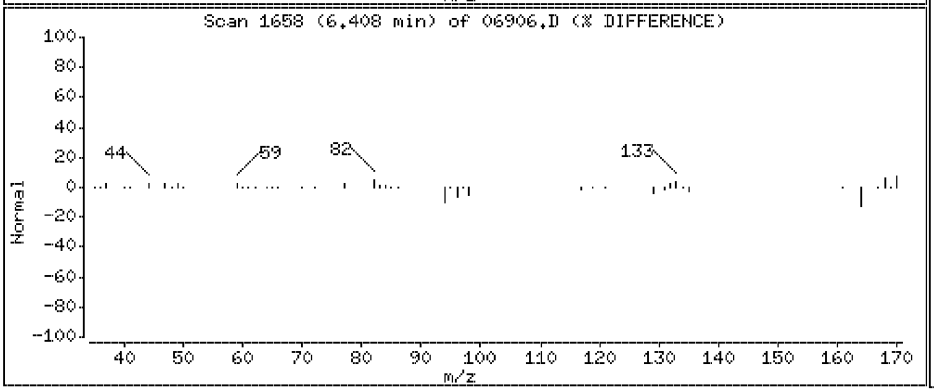
66 Tetrachloroethene

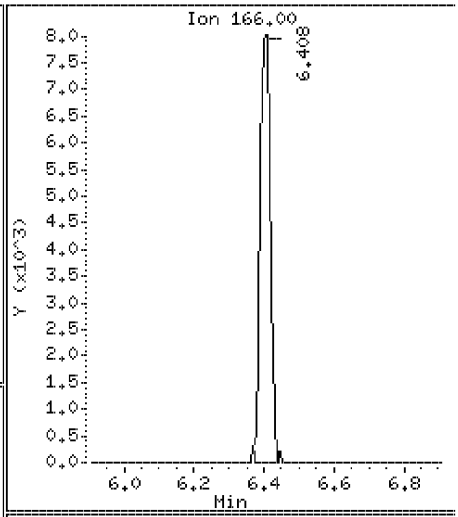
Concentration: 0.443 ppbv

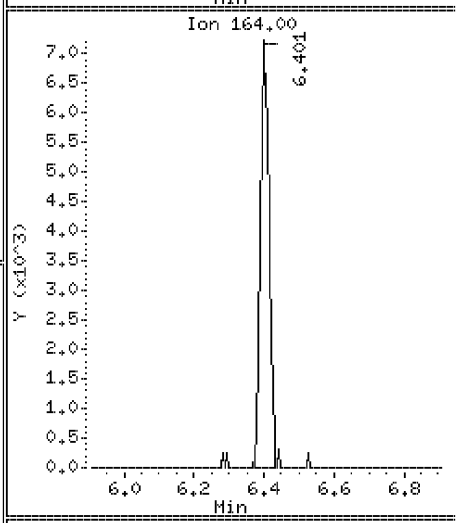


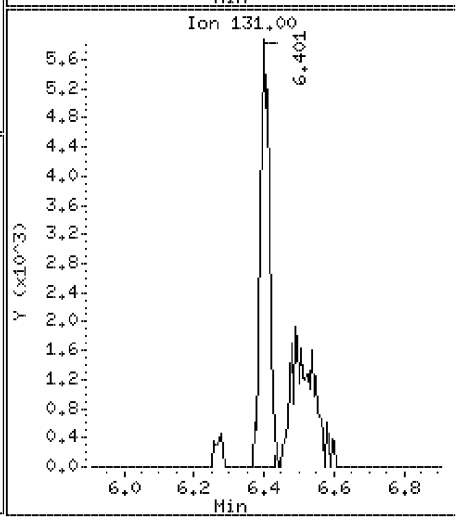












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

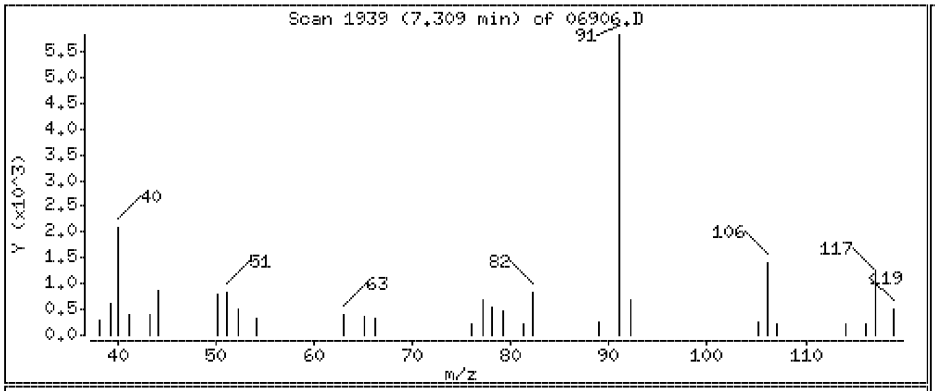
Operator: DR1

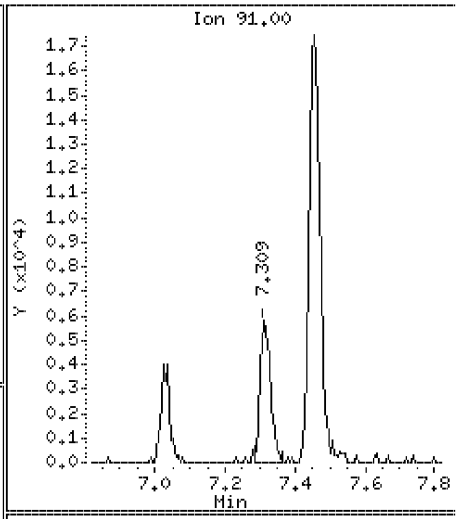
Column phase: J&W DB-5

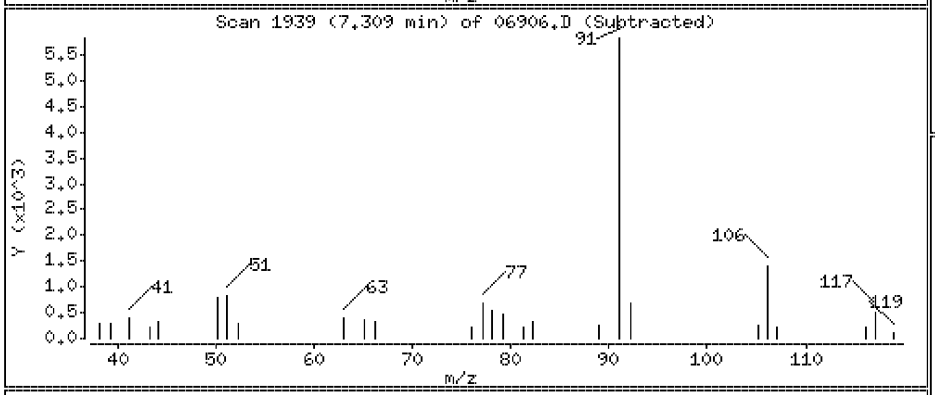
Column diameter: 0.32

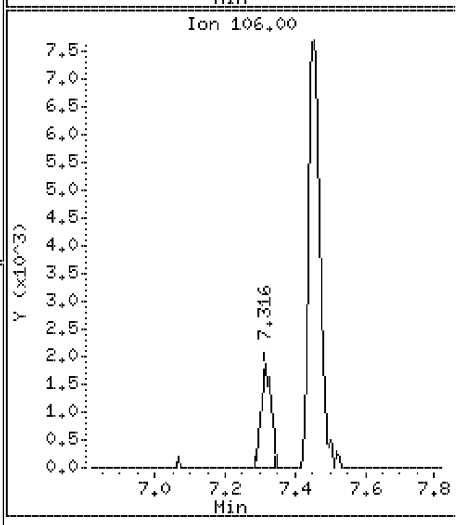
69 Ethyl Benzene

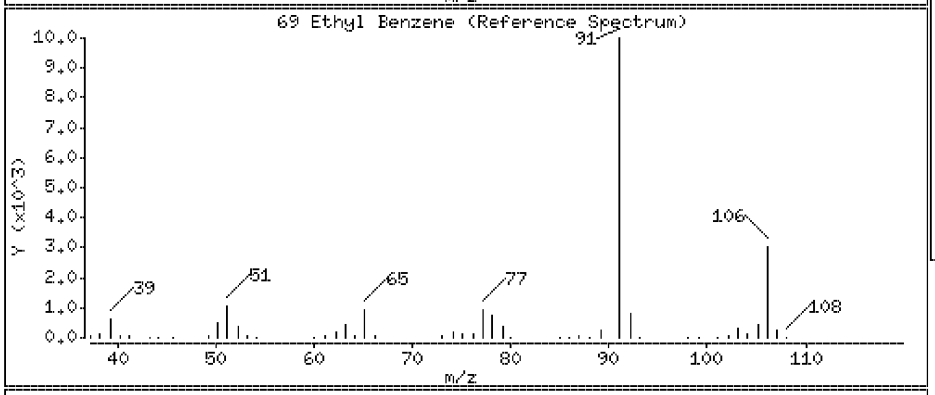
Concentration: 0.175 ppbv

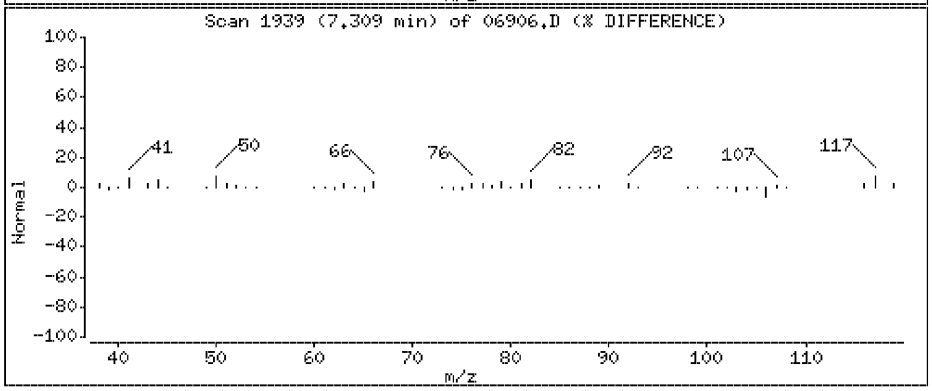












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

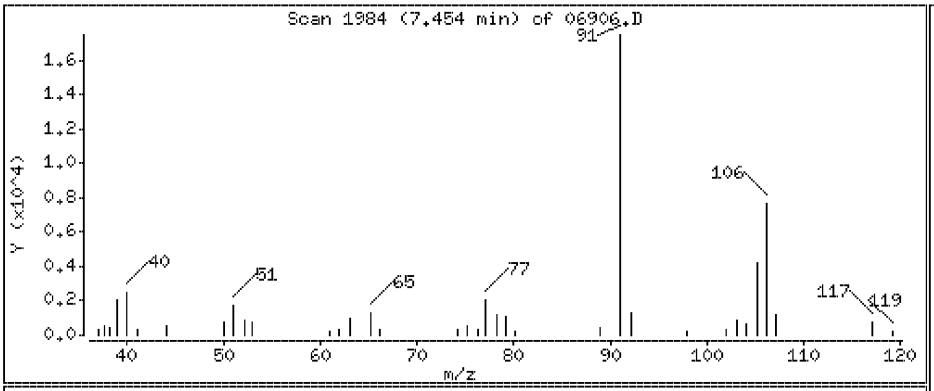
Operator: DR1

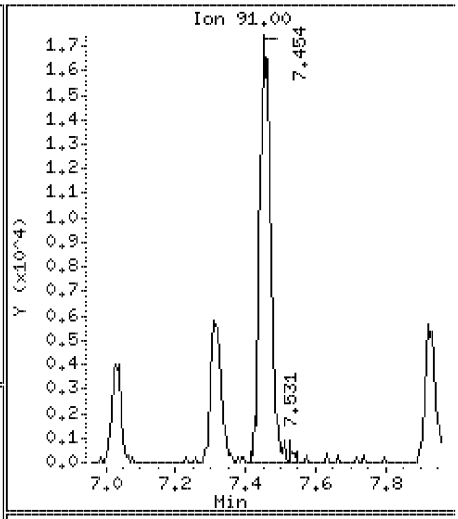
Column phase: J&W DB-5

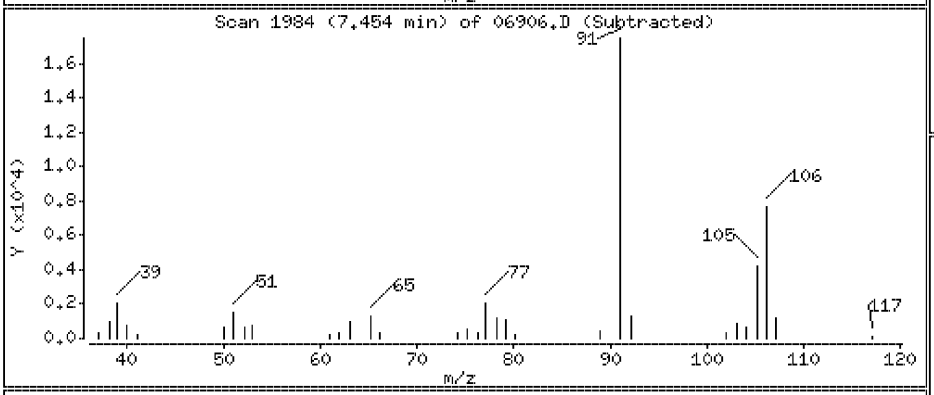
Column diameter: 0.32

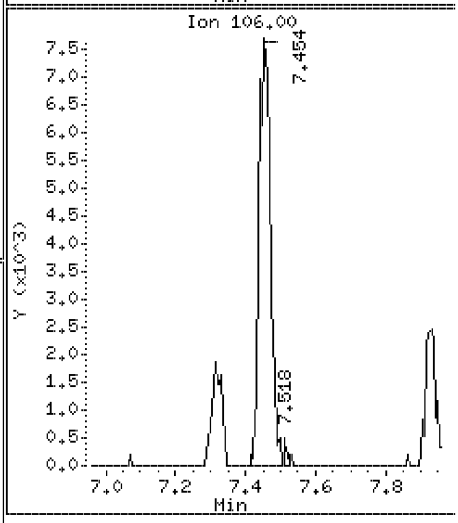
70 m&p-Xylene

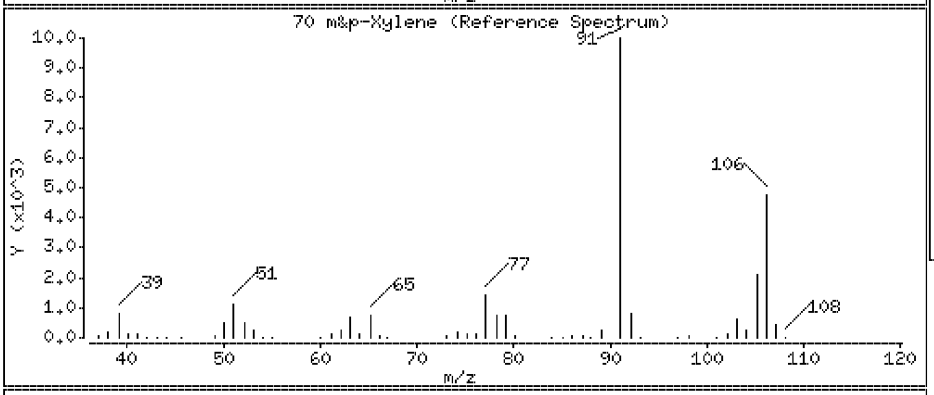
Concentration: 0.451 ppbv

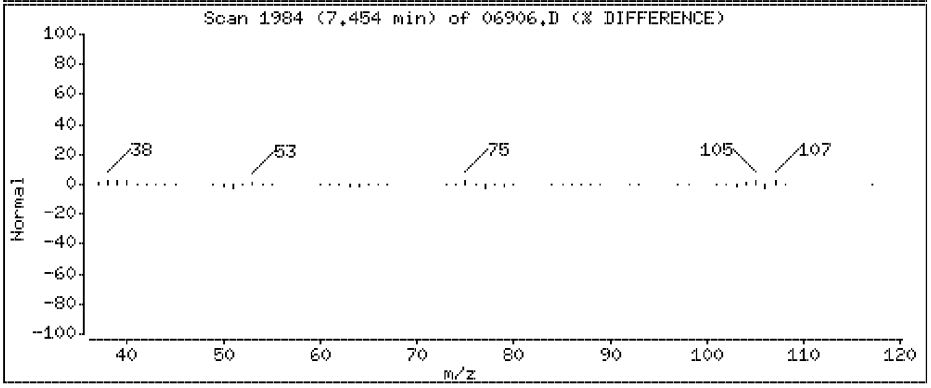












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

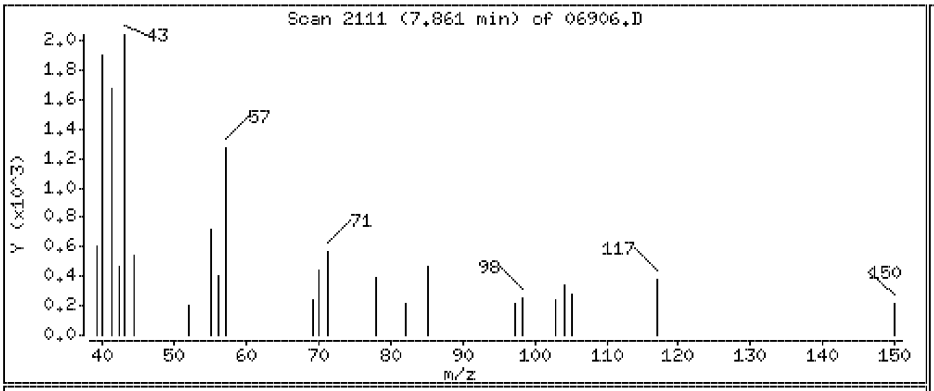
Operator: DR1

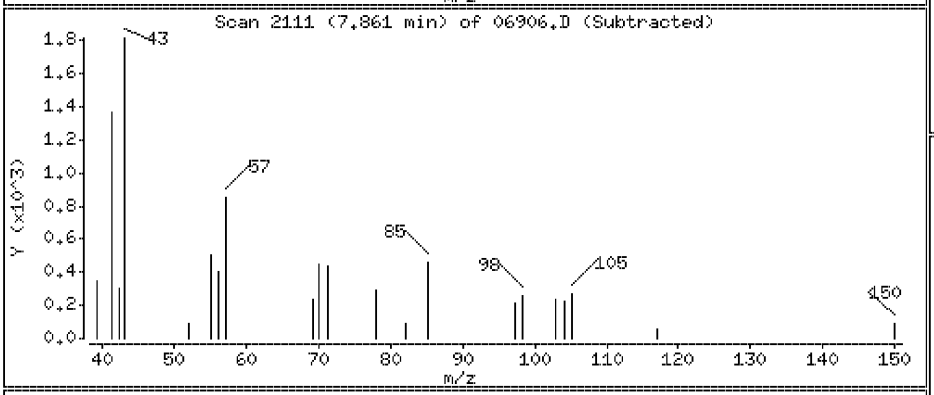
Column phase: J&W DB-5

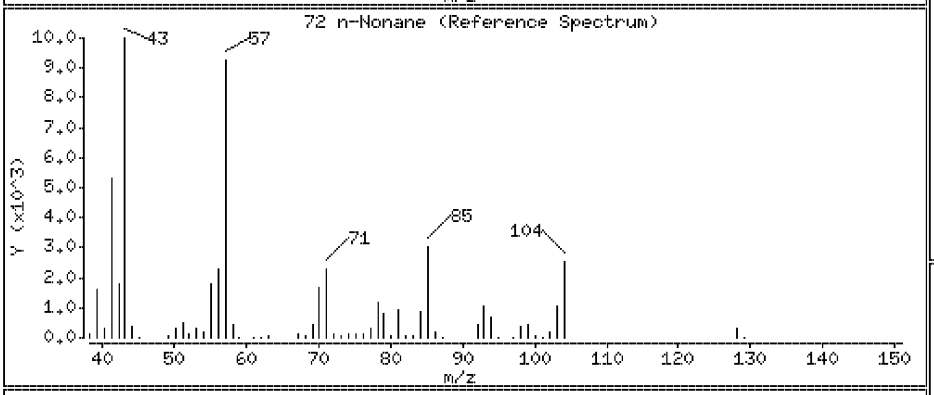
Column diameter: 0.32

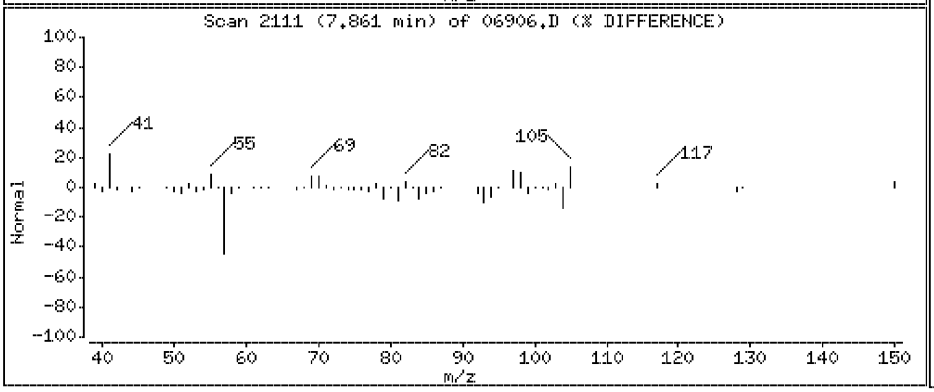
72 n-Nonane

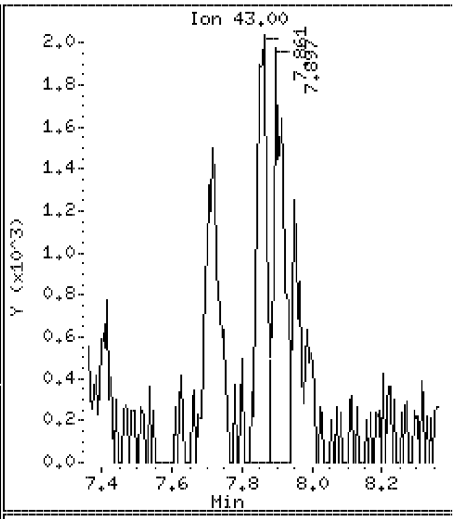
Concentration: 0.105 ppbv

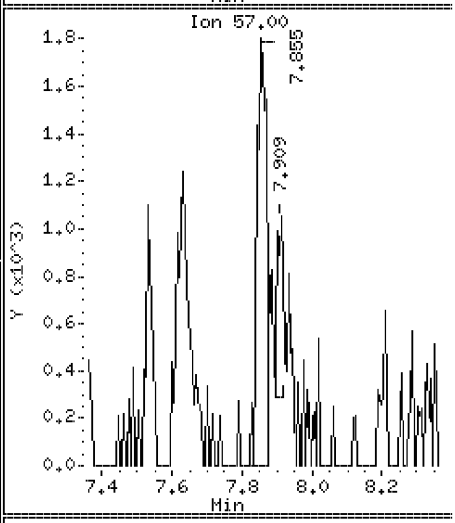


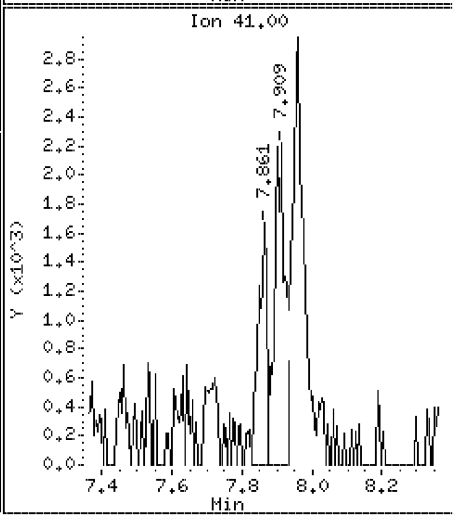












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

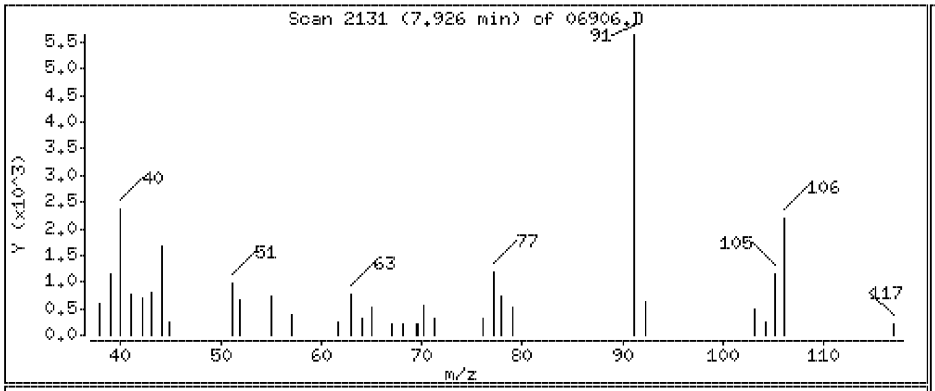
Operator: DR1

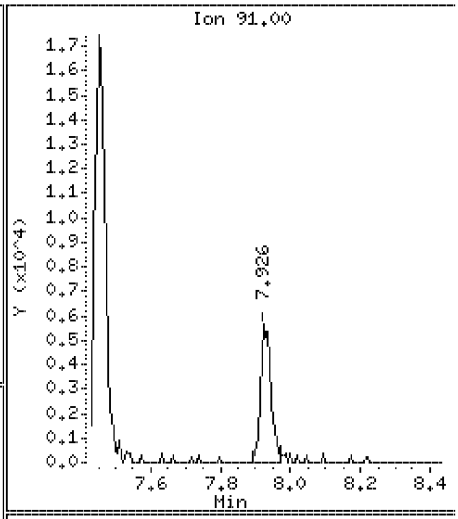
Column phase: J&W DB-5

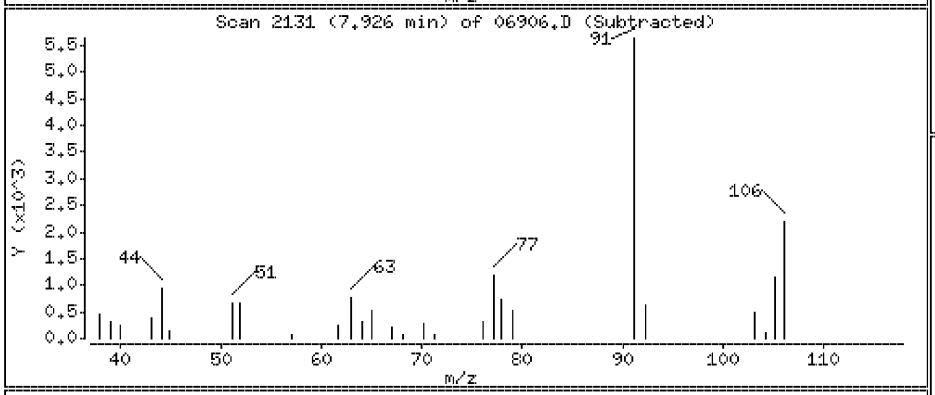
Column diameter: 0.32

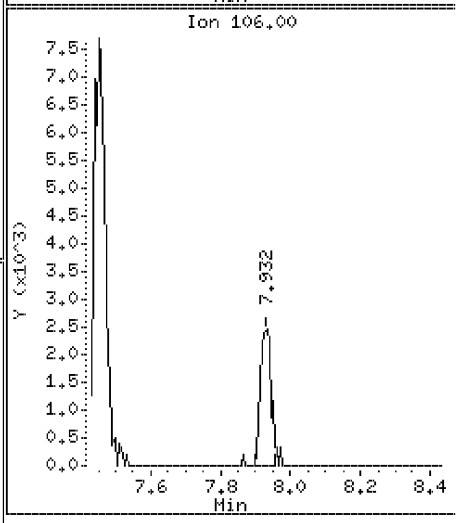
74 o-Xylene

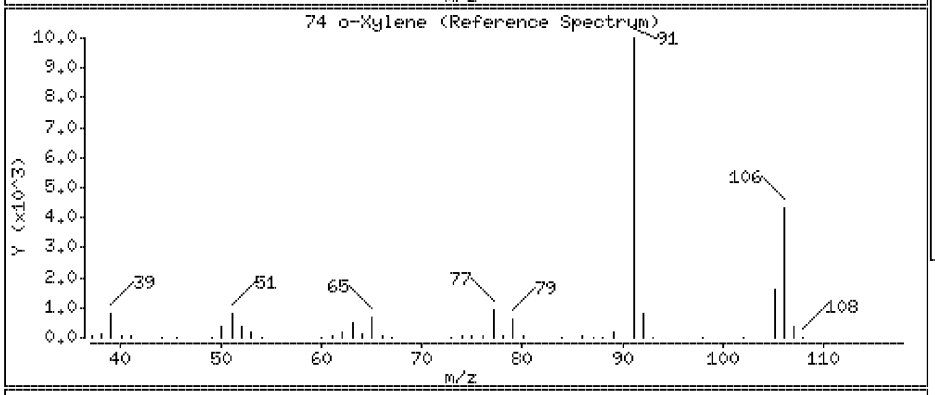
Concentration: 0.198 ppbv

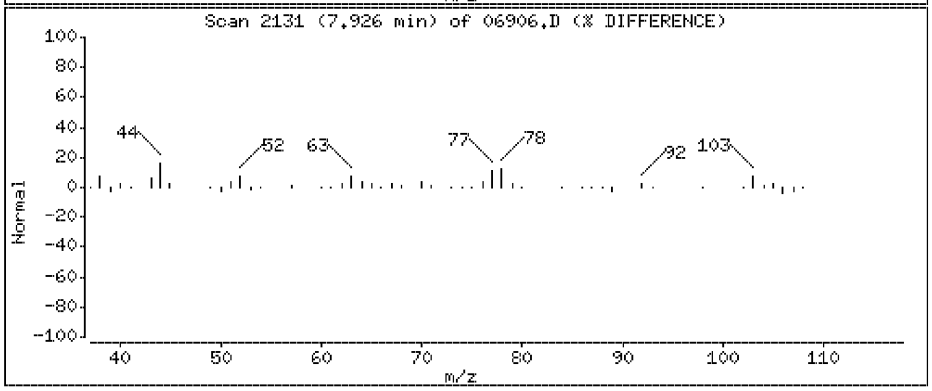












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

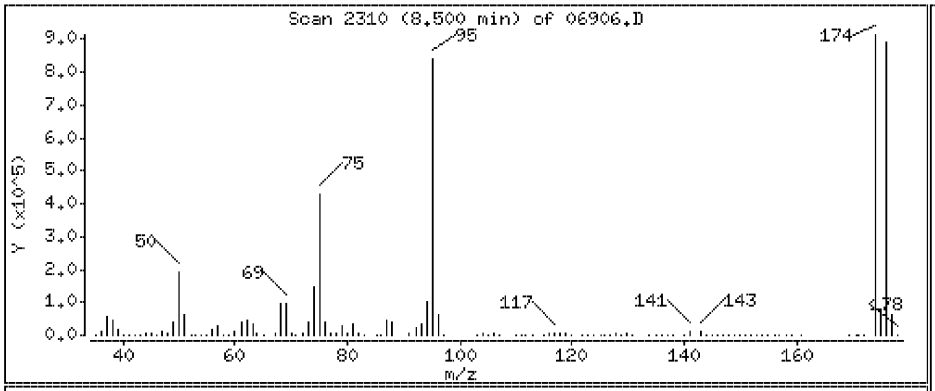
Operator: DR1

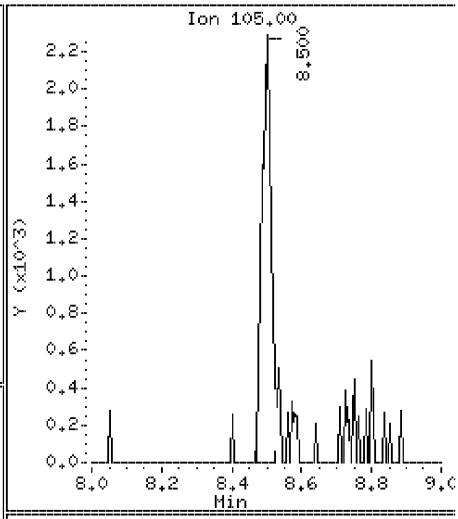
Column phase: J&W DB-5

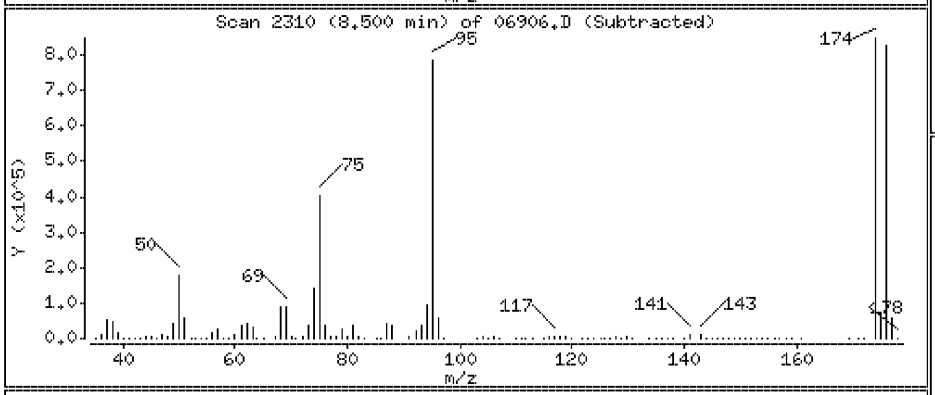
Column diameter: 0.32

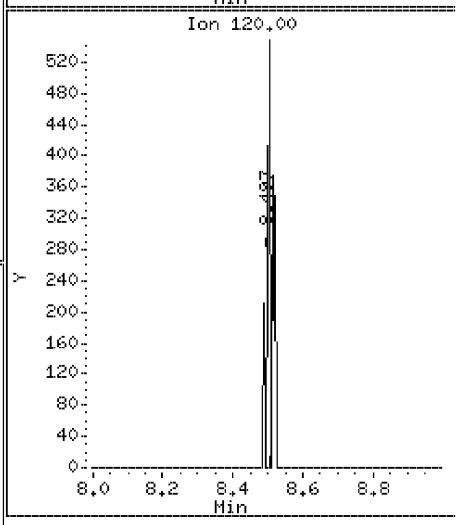
76 Isopropylbenzene

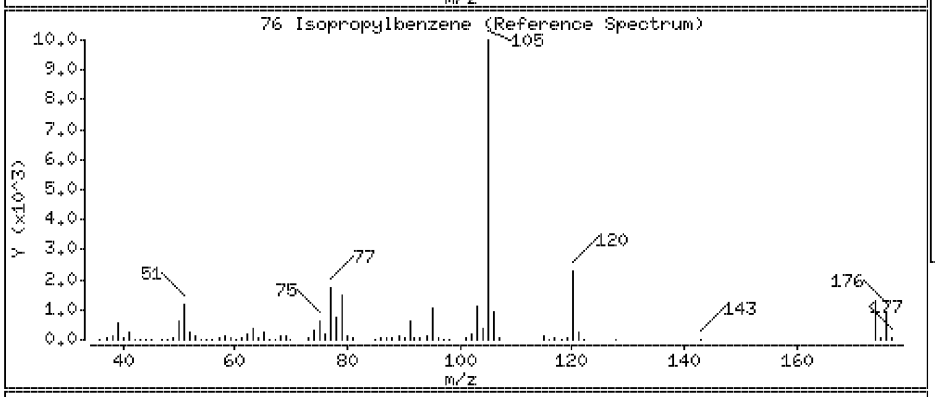
Concentration: 0.0527 ppbv

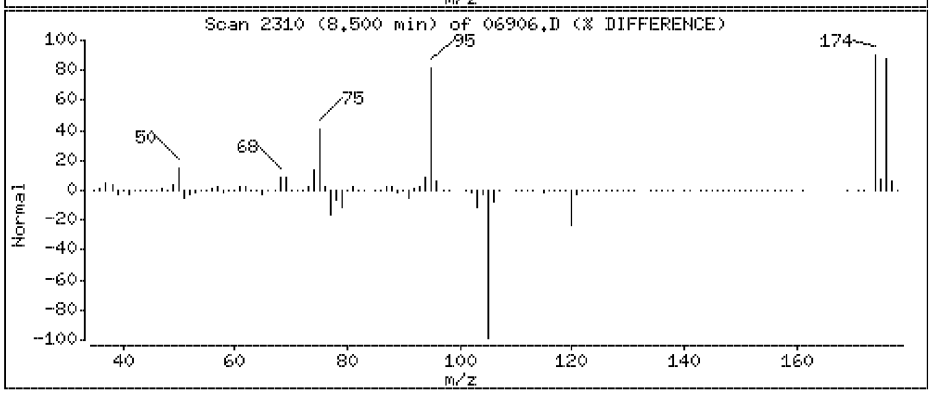












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

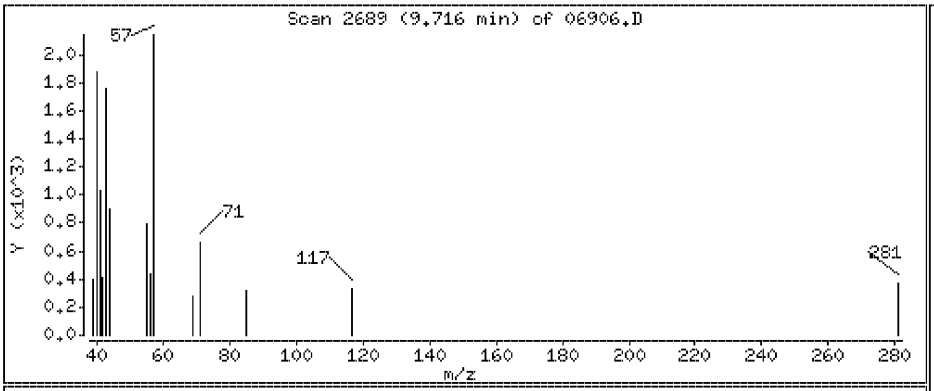
Operator: DR1

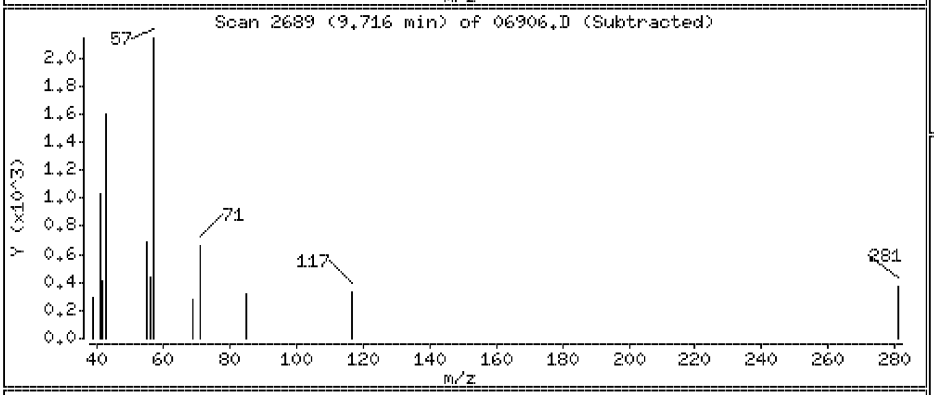
Column phase: J&W DB-5

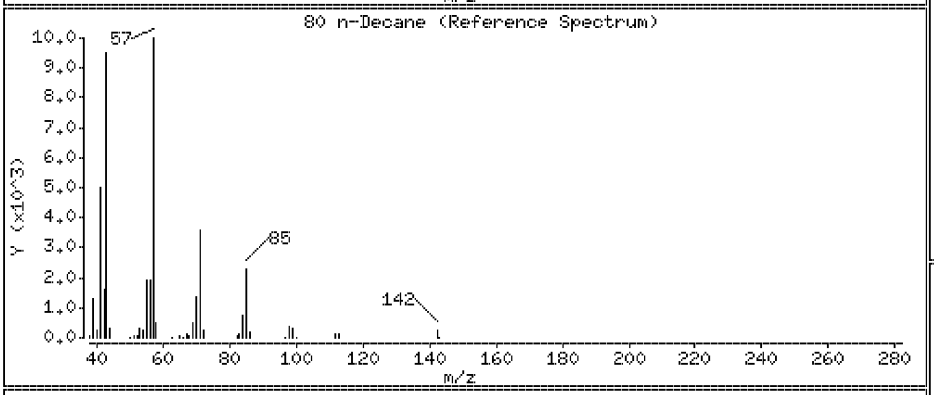
Column diameter: 0.32

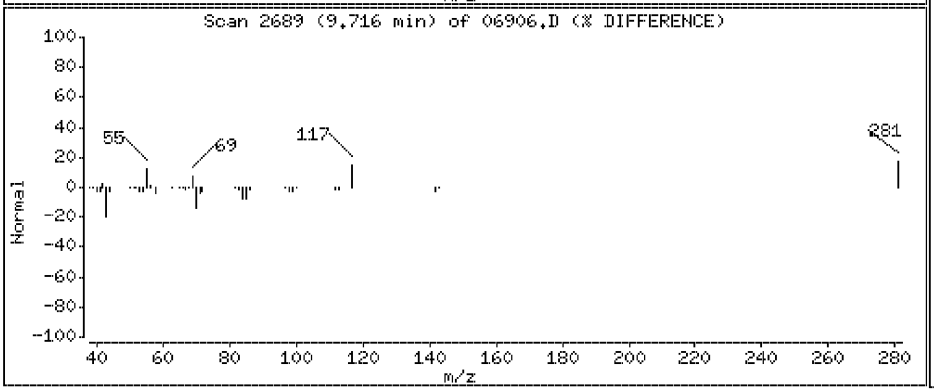
80 n-Decane

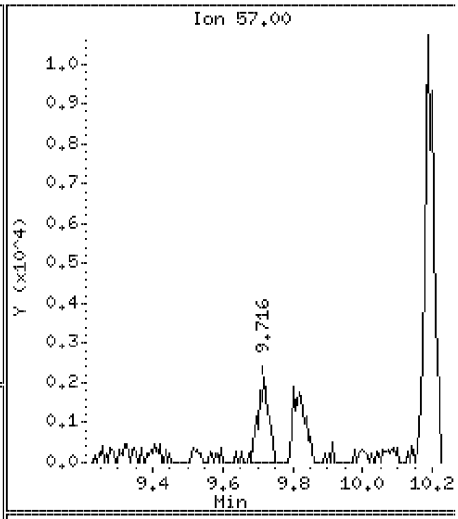
Concentration: 0.130 ppbv

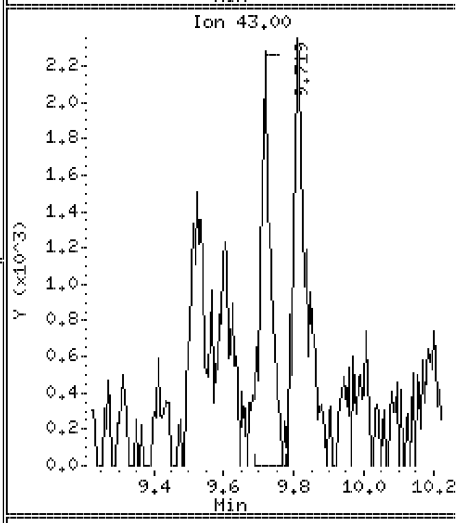


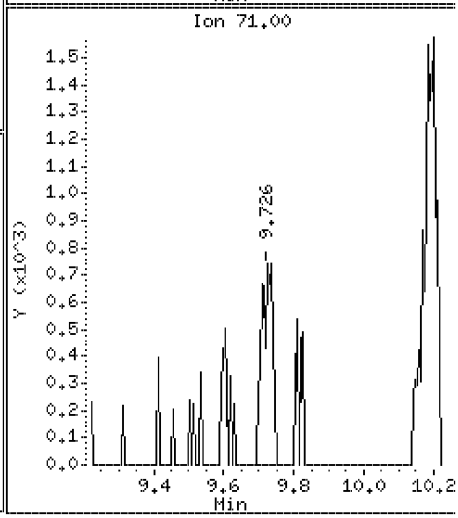












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

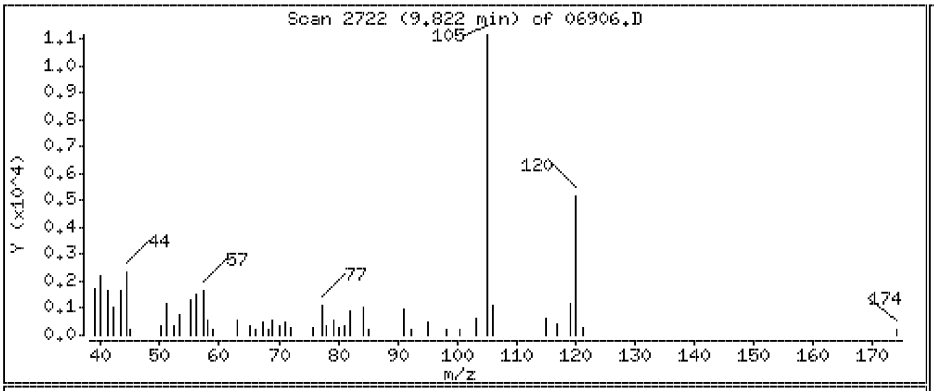
Operator: DR1

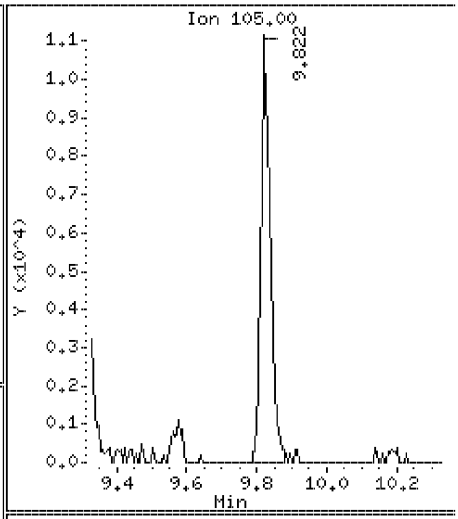
Column phase: J&W DB-5

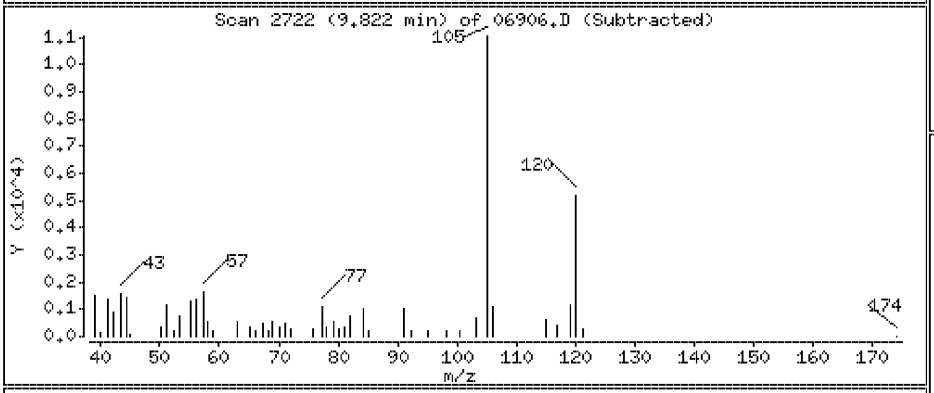
Column diameter: 0.32

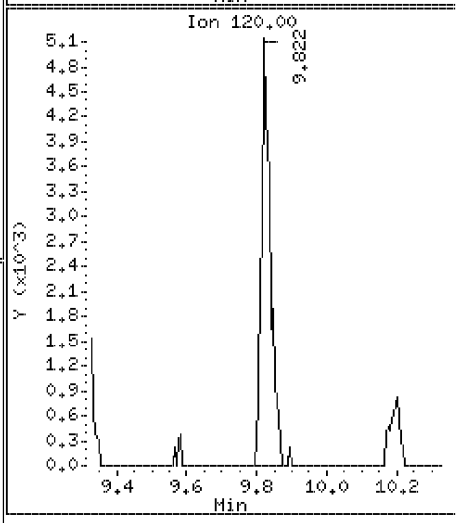
82 1,2,4-Trimethylbenzene

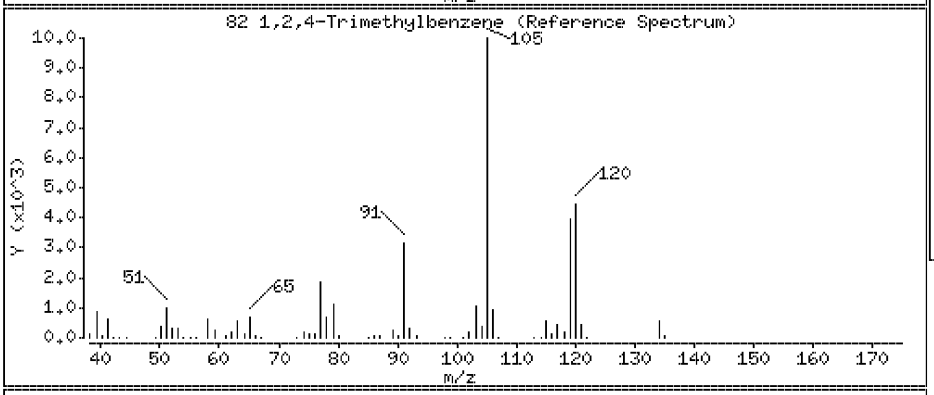
Concentration: 0.165 ppbv

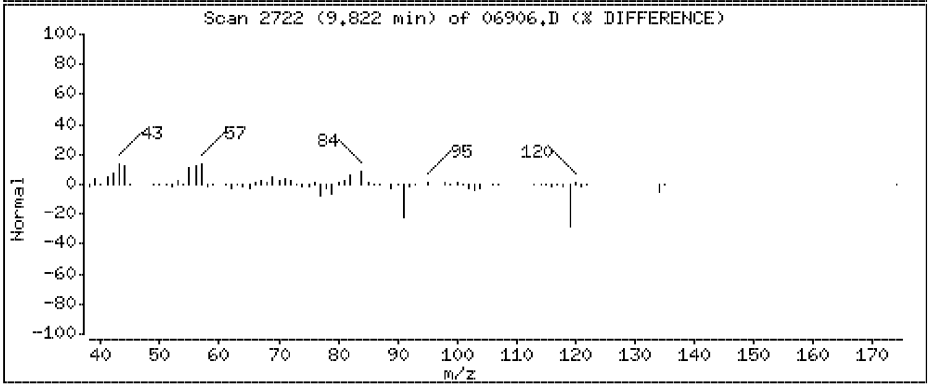












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06906.D

Date : 10-MAR-2017 17:22

Client ID:

Instrument: 10airD.i

Sample Info:

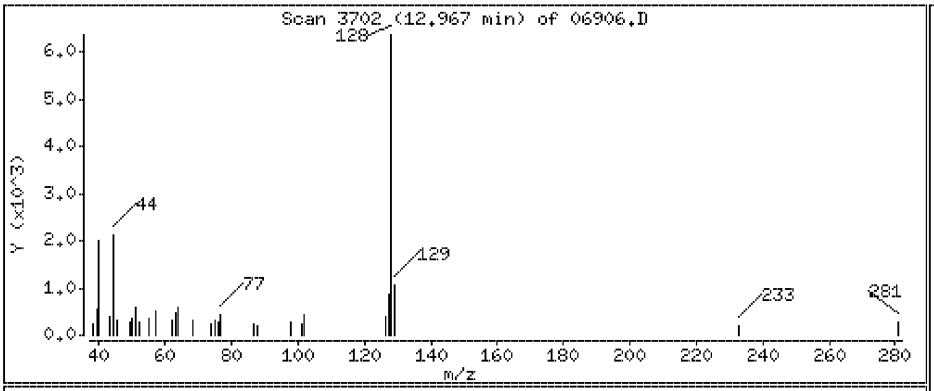
Operator: DR1

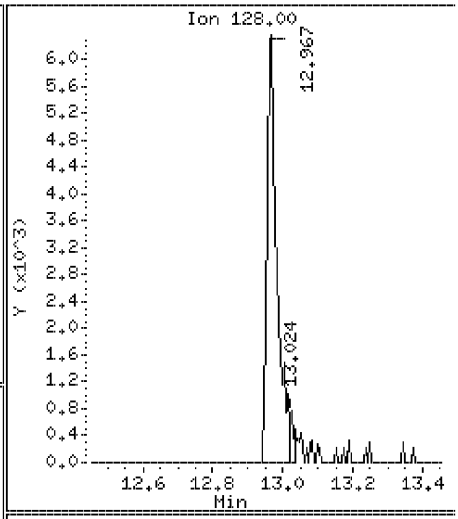
Column phase: J&W DB-5

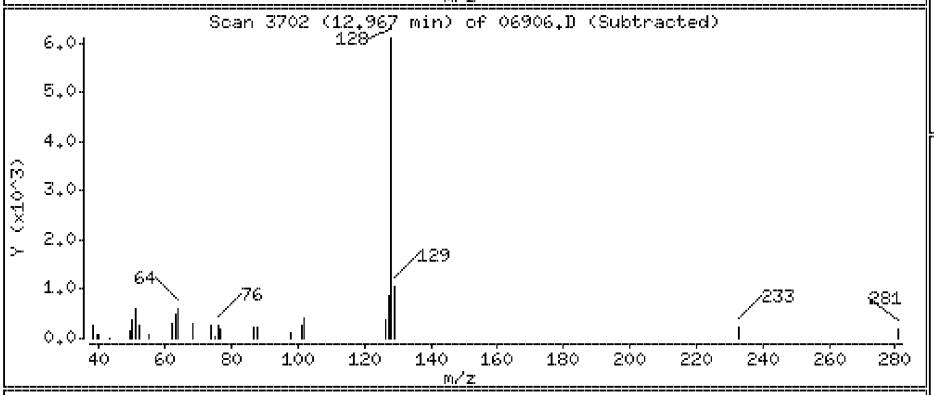
Column diameter: 0.32

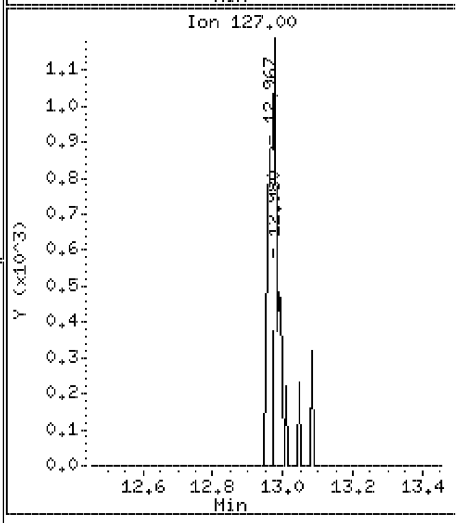
94 Naphthalene

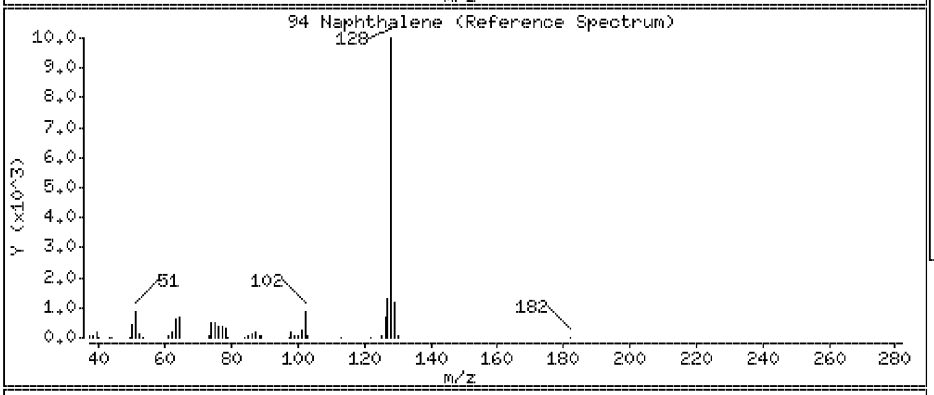
Concentration: 0.729 ppbv

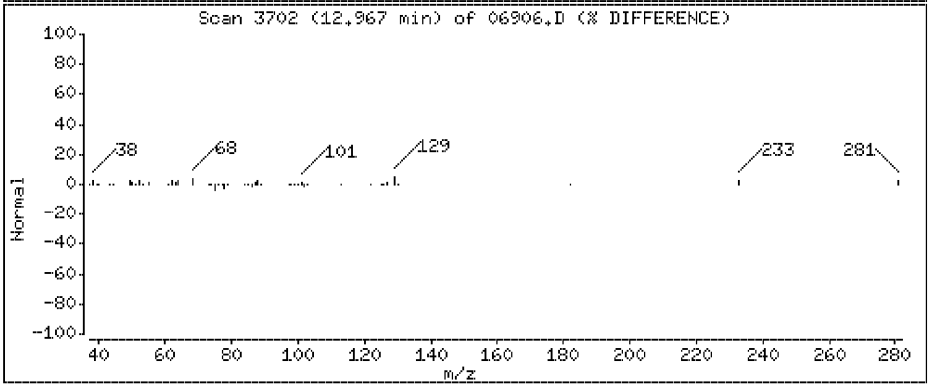






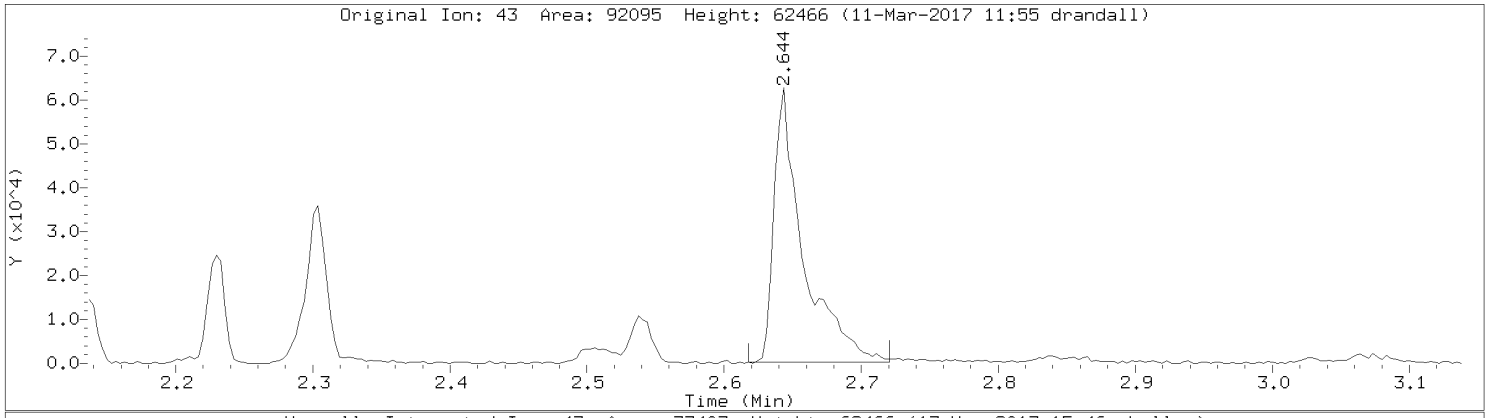


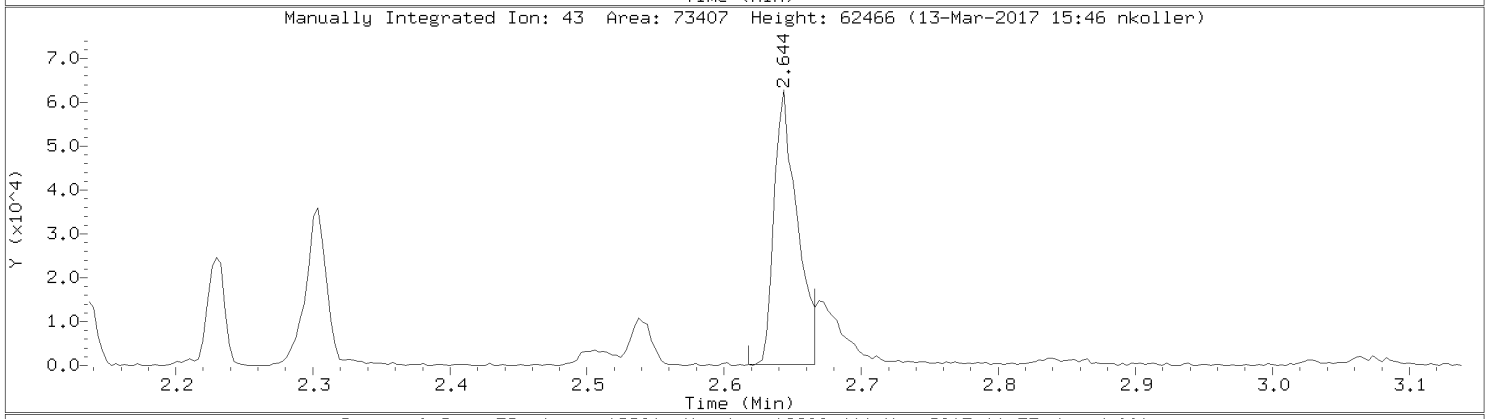


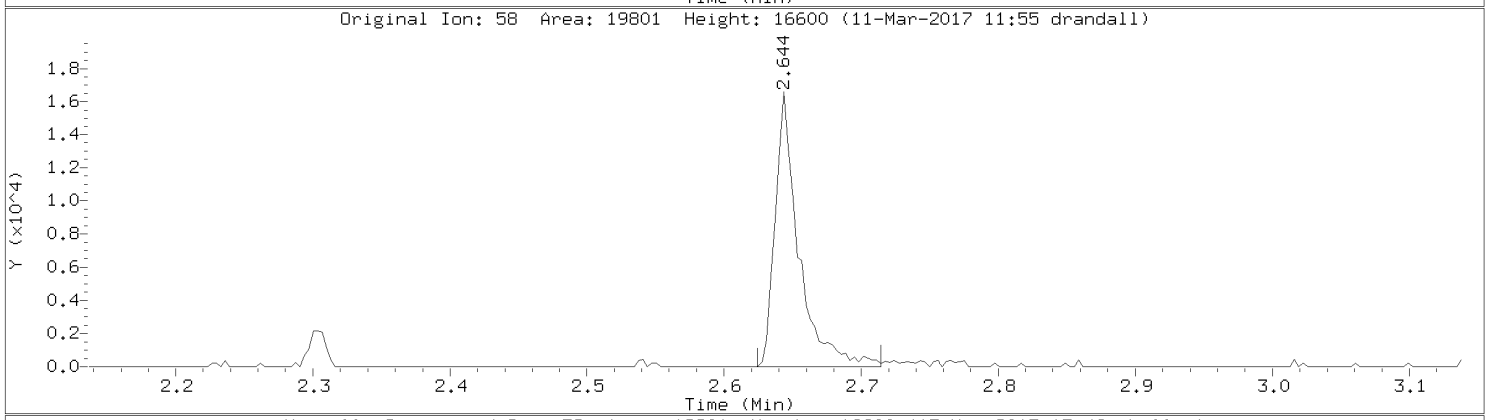


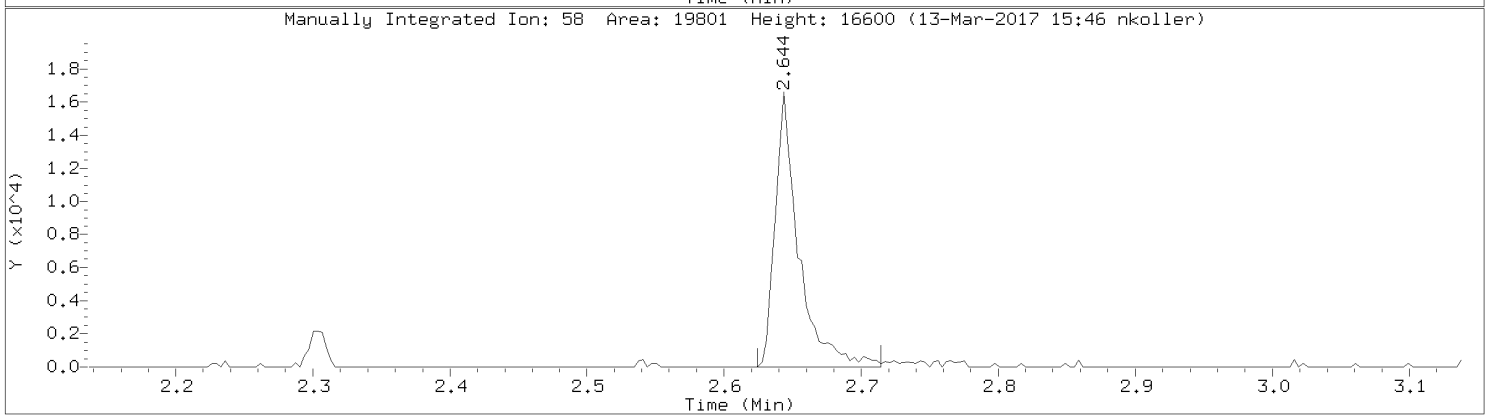
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06906.d
Injection Date: 10-MAR-2017 17:22
Instrument: 10airD.i
Lab Sample ID: 10380372002

Compound: Acetone
CAS Number: 67-64-1



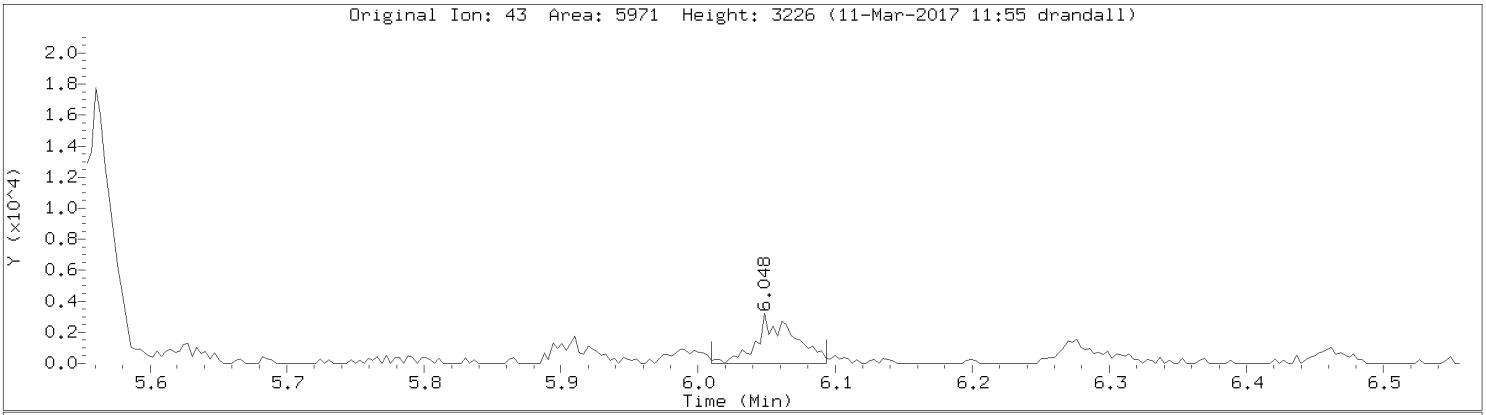


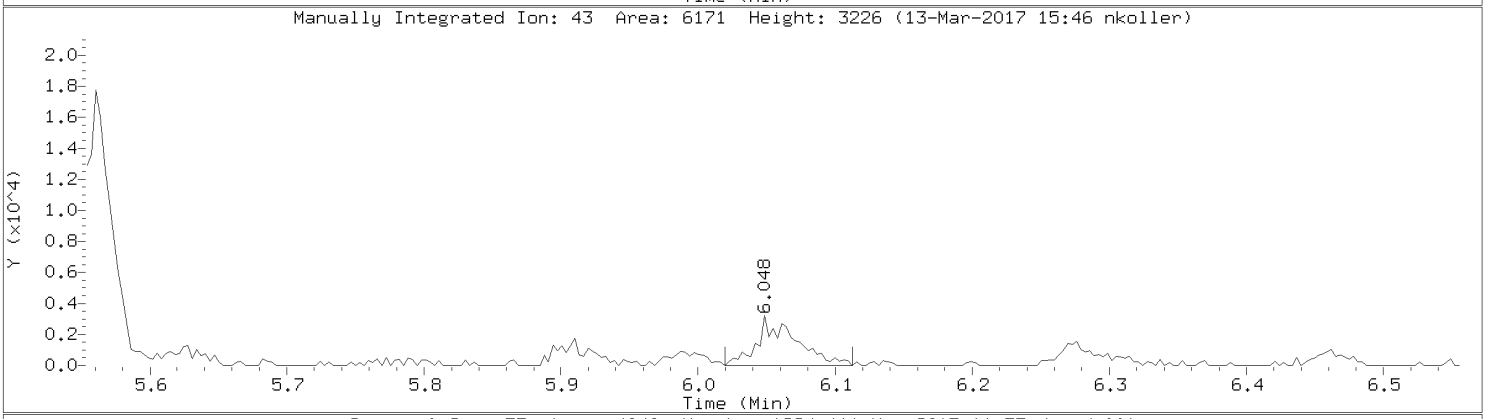


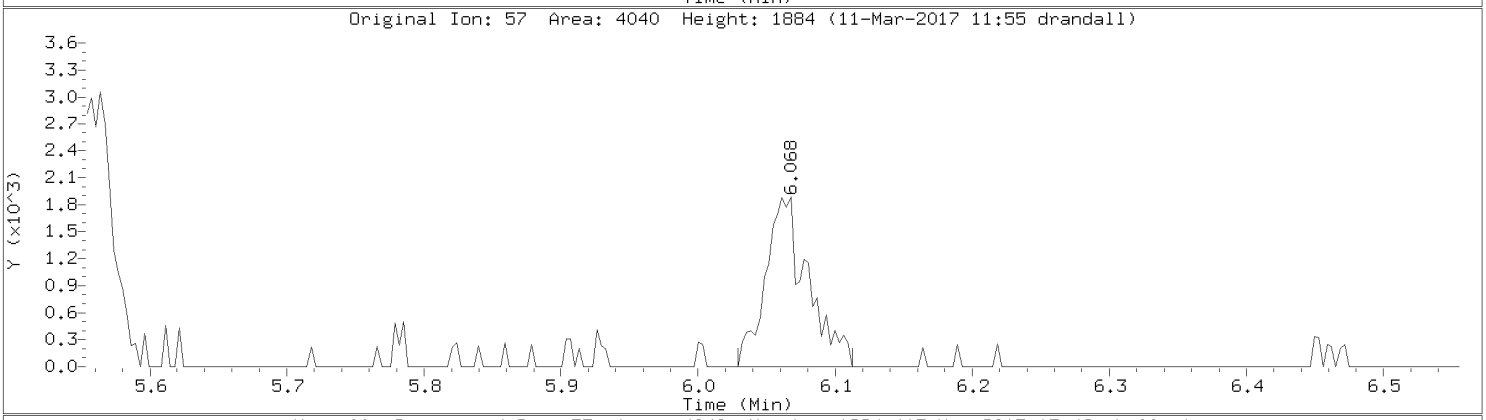


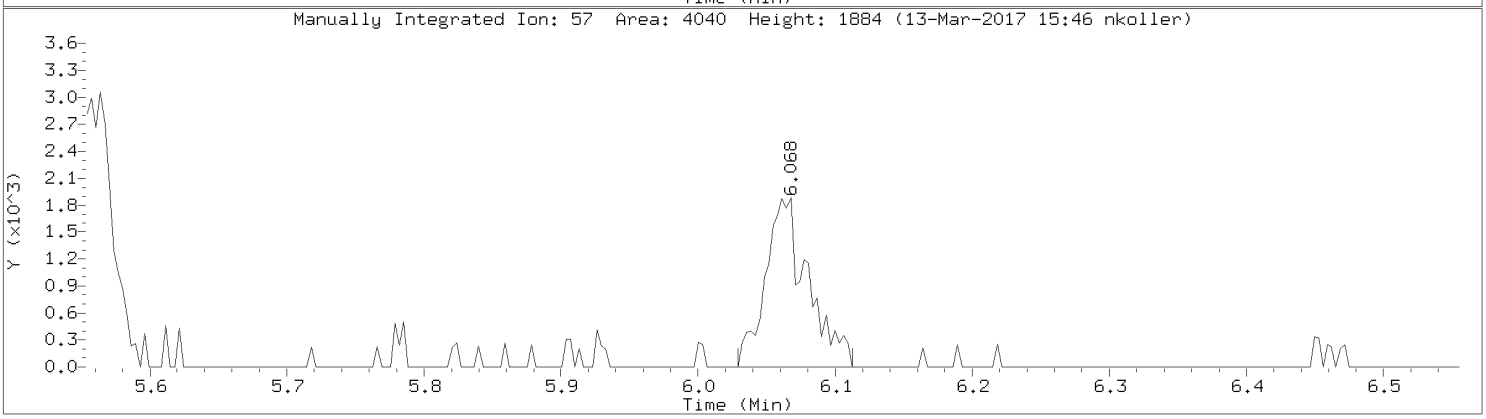
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06906.d
Injection Date: 10-MAR-2017 17:22
Instrument: 10airD.i
Lab Sample ID: 10380372002

Compound: n-Octane
CAS Number: 111-65-9

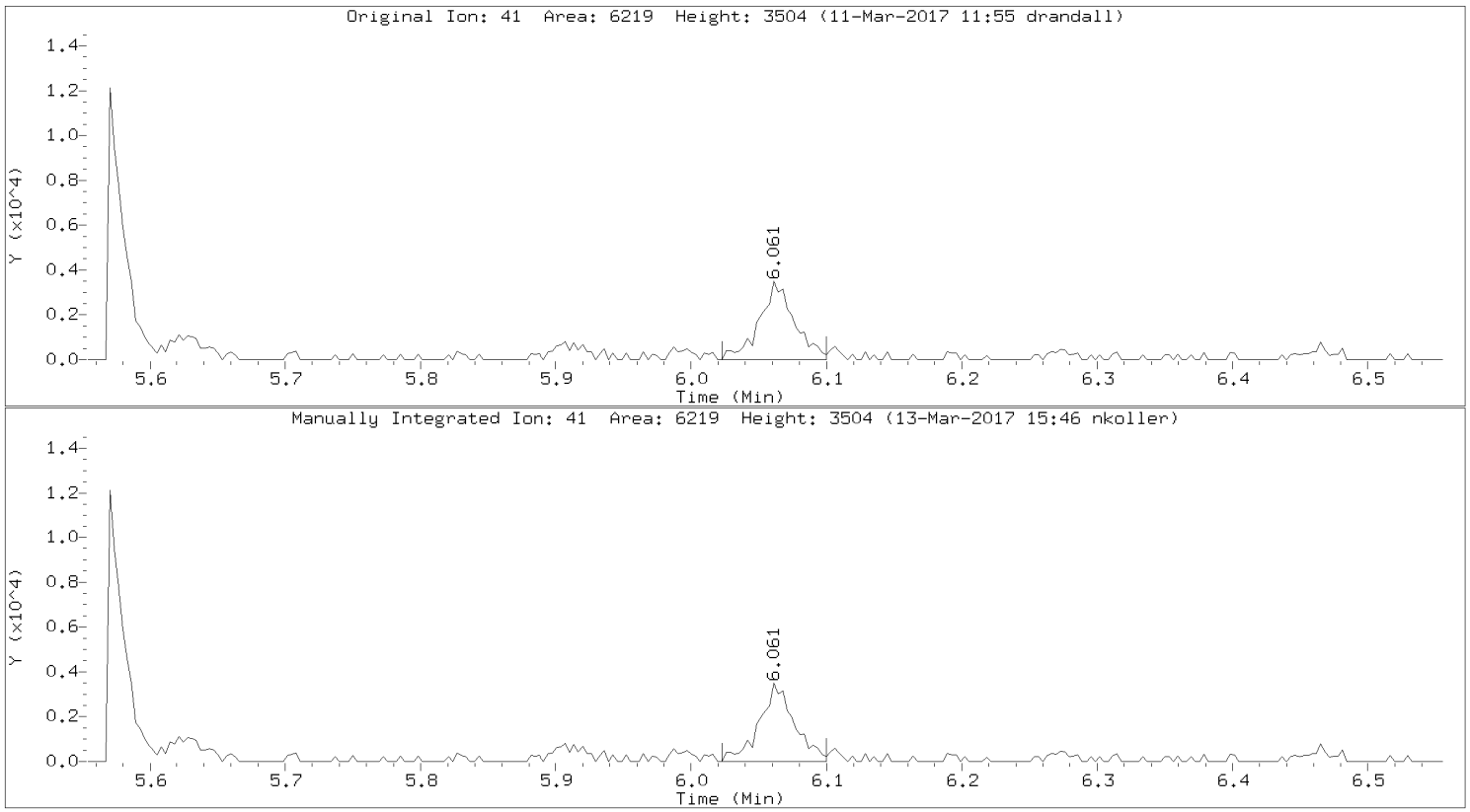








Data File: \\192.168.10.12\chem\10airD.i\031017.b/06906.d
Injection Date: 10-MAR-2017 17:22
Instrument: 10airD.i
Lab Sample ID: 10380372002



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_51.5_20170226 **Lab ID: 10380372003** Collected: 02/26/17 13:45 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**153**	ug/m3	10.6	1.5	1.75		03/10/17 18:21	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/10/17 18:21	107-05-1	
Benzene	**0.94**	ug/m3	0.57	0.21	1.75		03/10/17 18:21	71-43-2	
Bromodichloromethane	**0.89J**	ug/m3	2.4	0.34	1.75		03/10/17 18:21	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/10/17 18:21	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/10/17 18:21	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/10/17 18:21	106-99-0	
2-Butanone (MEK)	**2.0J**	ug/m3	5.2	0.40	1.75		03/10/17 18:21	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/10/17 18:21	75-15-0	
Carbon tetrachloride	**0.71J**	ug/m3	1.1	0.34	1.75		03/10/17 18:21	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/10/17 18:21	108-90-7	
Chlorodifluoromethane	**0.48U**	ug/m3	1.3	0.48	1.75		03/10/17 18:21	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/10/17 18:21	75-00-3	
Chloroform	**3.9**	ug/m3	0.87	0.33	1.75		03/10/17 18:21	67-66-3	
Chloromethane	**0.71J**	ug/m3	0.74	0.19	1.75		03/10/17 18:21	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 18:21	76-15-3	
Cyclohexane	**0.89J**	ug/m3	1.2	0.55	1.75		03/10/17 18:21	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/10/17 18:21	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/10/17 18:21	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/10/17 18:21	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/10/17 18:21	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/10/17 18:21	541-73-1	
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/10/17 18:21	106-46-7	
Dichlorodifluoromethane	**3.1**	ug/m3	1.8	0.84	1.75		03/10/17 18:21	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/10/17 18:21	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/10/17 18:21	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 18:21	75-35-4	
cis-1,2-Dichloroethene	**7.1**	ug/m3	1.4	0.43	1.75		03/10/17 18:21	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/10/17 18:21	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/10/17 18:21	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/10/17 18:21	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/10/17 18:21	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/10/17 18:21	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 18:21	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/10/17 18:21	123-91-1	
Ethylbenzene	**0.74U**	ug/m3	1.5	0.74	1.75		03/10/17 18:21	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/10/17 18:21	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/10/17 18:21	87-68-3	
n-Hexane	**146**	ug/m3	1.3	0.62	1.75		03/10/17 18:21	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/10/17 18:21	591-78-6	
Isopropylbenzene (Cumene)	**0.24J**	ug/m3	4.4	0.24	1.75		03/10/17 18:21	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/10/17 18:21	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 18:21	108-87-2	
Methylene Chloride	**687**	ug/m3	6.2	0.95	1.75		03/10/17 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/10/17 18:21	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/10/17 18:21	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.d
Report Date: 13-Mar-2017 15:47

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06908.d
Lab Smp Id: 10380372003
Inj Date : 10-MAR-2017 18:21
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 8
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.149	(0.507)	27188	0.35751	0.626	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	2.220	2.216	(0.523)	6888	0.19313	0.338	
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.512	2.499	(0.592)	12679	2.38750	4.18	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	2.540	2.544	(0.599)	10647	0.32128	0.562(Q)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.598	2.605	(0.613)	23985	0.30148	0.528	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.633	2.637	(0.621)	1393462	36.2582	63.5	
19	Isopropyl Alcohol	45	2.678	2.672	(0.632)	19570	0.72628	1.27(QH)	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	2.820	2.823	(0.665)	52101	0.83532	1.46	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.d
Report Date: 13-Mar-2017 15:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	2.868	2.871	(0.676)	2789517	111.152	195	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.269	(0.771)	1920481	10.4582	10.5	
	33 Methyl Ethyl Ketone	72	3.349	3.336	(0.790)	4143	0.37671	0.659(Q)	
	34 n-Hexane	57	3.349	3.349	(0.790)	925451	23.2740	40.7(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 cis-1,2-Dichloroethene	96	3.461	3.468	(0.816)	25638	1.00461	1.76(Q)	
	37 Ethyl Acetate	43	3.487	3.477	(0.822)	3907	0.06141	0.107(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	3.558	3.567	(0.839)	29012	0.45015	0.788	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	3.898	3.901	(0.919)	9262	0.14286	0.250	
	42 1,2-Dichloroethane	62	3.907	3.911	(0.921)	491	0.01043	0.0182(aQ)	
	43 Benzene	78	4.097	4.106	(0.966)	12645	0.16612	0.291	
	45 Carbon tetrachloride	117	4.116	4.119	(0.970)	3862	0.06329	0.111	
	44 Cyclohexane	56	4.116	4.119	(0.970)	5721	0.14558	0.255(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	3459033	10.0000		
	48 2,2,4-Trimethylpentane	57	4.363	4.373	(1.029)	11643	158.665	278(A)	
	49 Heptane	43	4.485	4.491	(1.057)	44864	0.75501	1.32	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	4.565	4.572	(1.076)	1925463	46.0824	80.6(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 Bromodichloromethane	83	4.652	4.665	(1.097)	5399	0.07504	0.131	
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.563	5.566	(1.312)	3335780	9.62424	9.62	
	60 Toluene	91	5.627	5.634	(1.327)	37395	0.36570	0.640	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.404	6.407	(0.911)	1669815	27.5263	48.2	
*	67 Chlorobenzene - d5	117	7.026	7.033	(1.000)	2743997	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.854	7.861	(1.118)	57314	0.91222	1.60	
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	7.925	7.931	(1.128)	7435	0.07490	0.131	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	8.499	8.499	(1.210)	3418	0.02781	0.0487(a)	
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.d
Report Date: 13-Mar-2017 15:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	9.314	9.321	(1.326)	7284	0.03612	0.0632(a)	
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.825	9.828	(1.398)	18731	0.08721	0.153	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.197	(1.451)	1746788	10.3901	10.4	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.960	12.953	(1.844)	4957	0.17239	0.302	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.d
Report Date: 13-Mar-2017 15:47

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06908.d
Lab Smp Id: 10380372003
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 10-MAR-2017
Calibration Time: 14:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

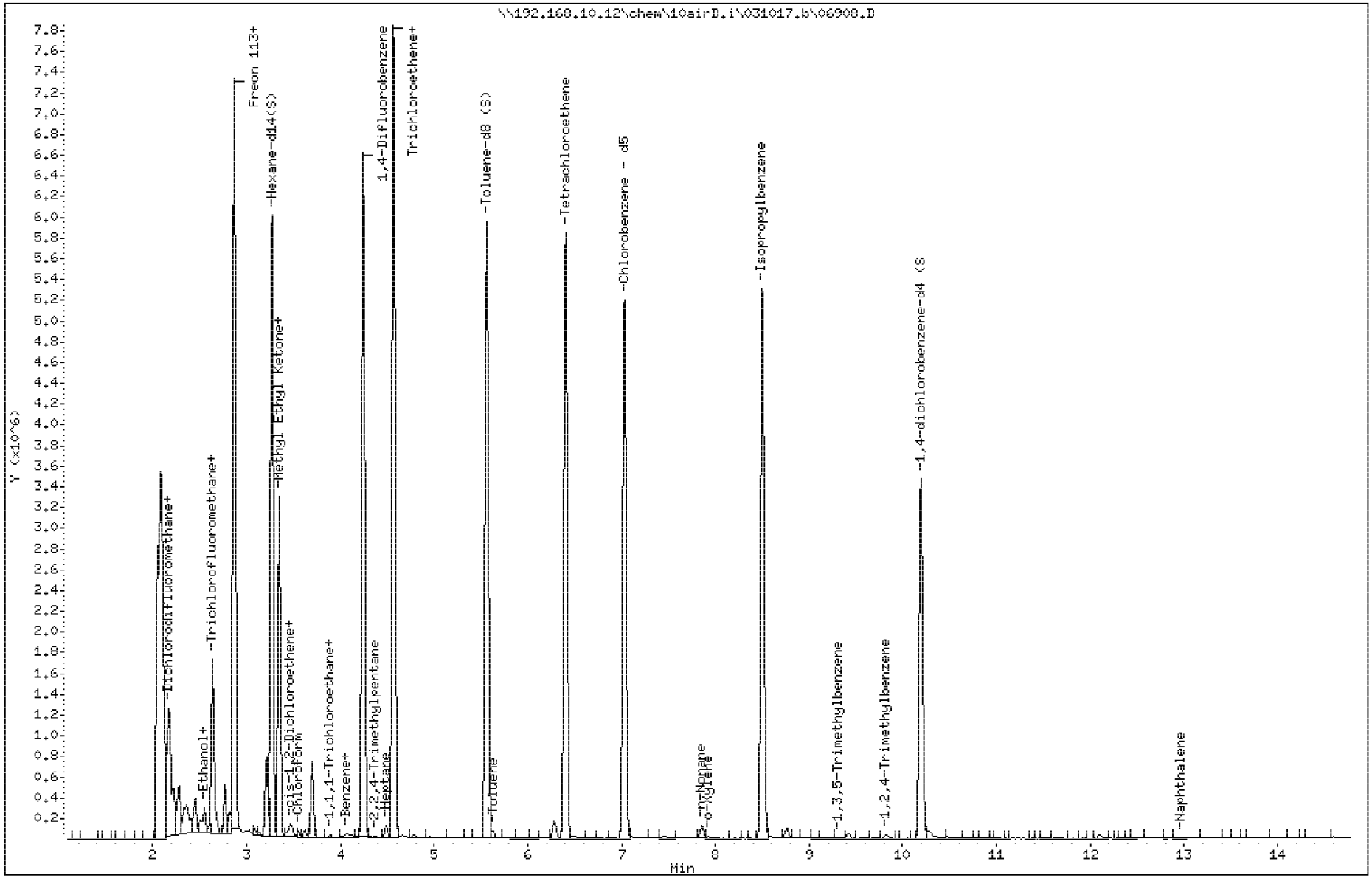
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3459033	-8.67
67 Chlorobenzene - d	3280875	1968525	4593225	2743997	-16.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D
Date : 10-MAR-2017 18:21
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

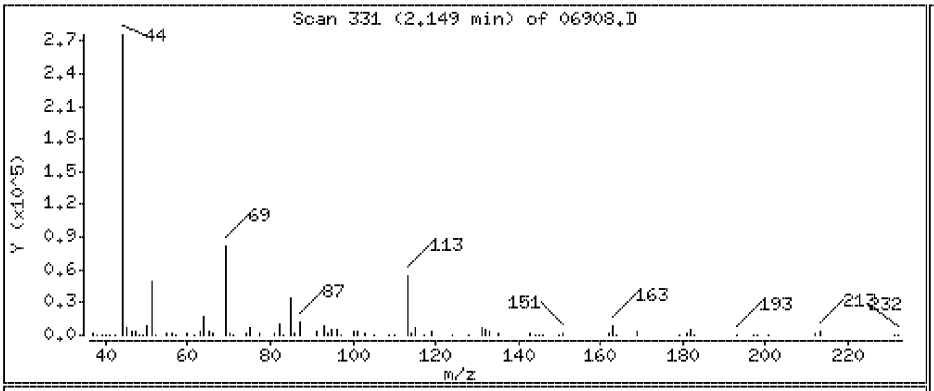
Operator: DR1

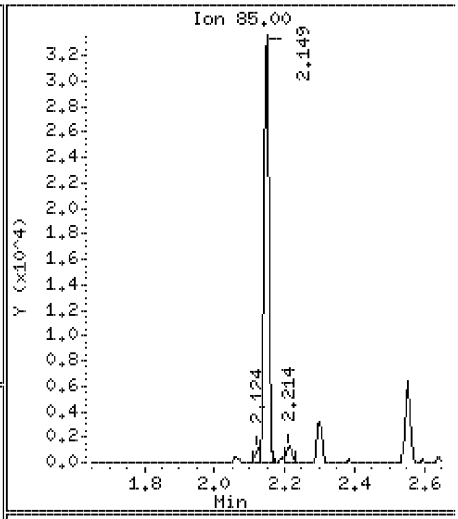
Column phase: J&W DB-5

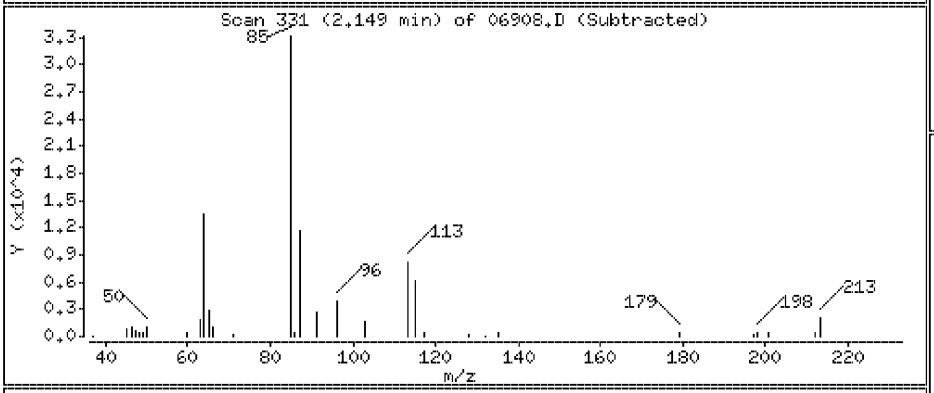
Column diameter: 0.32

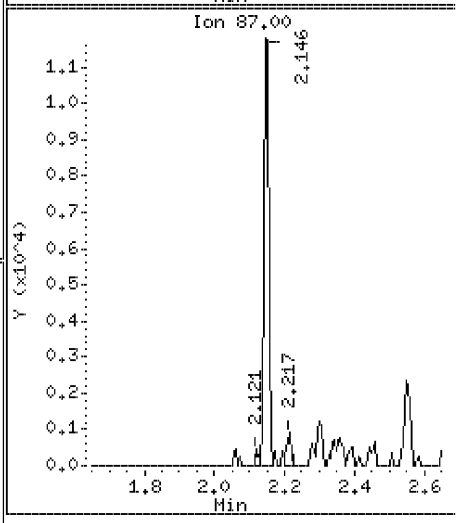
5 Dichlorodifluoromethane

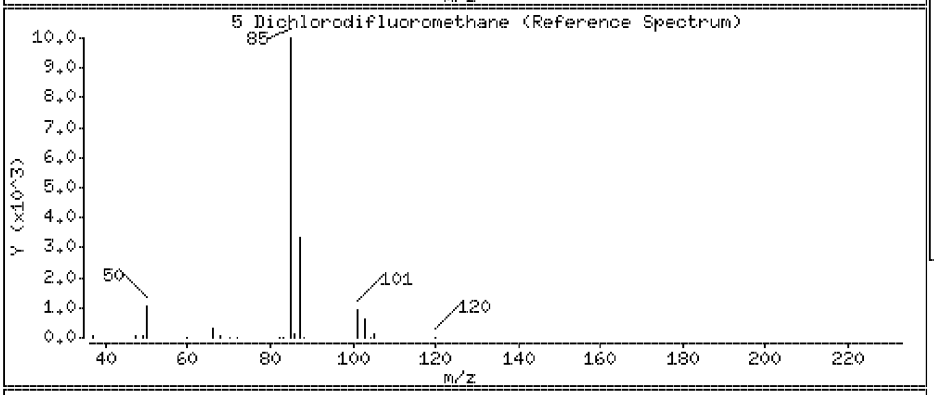
Concentration: 0.626 ppbv

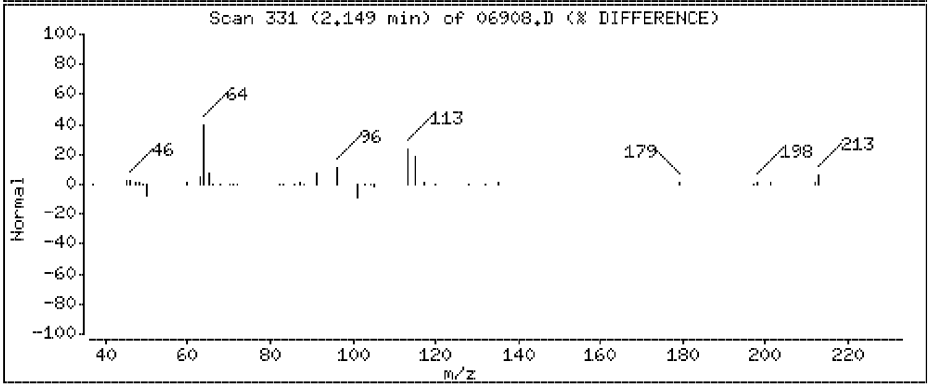












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

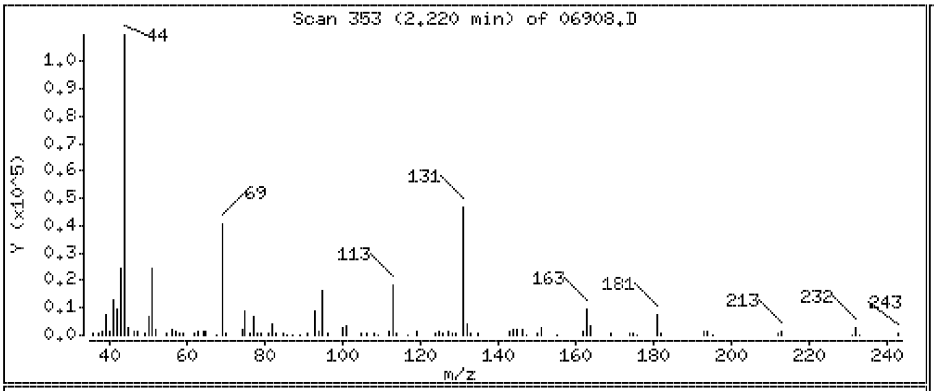
Operator: DR1

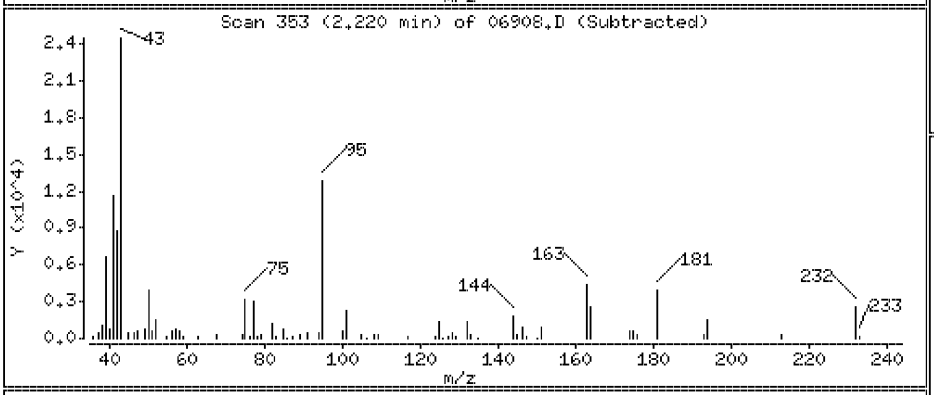
Column phase: J&W DB-5

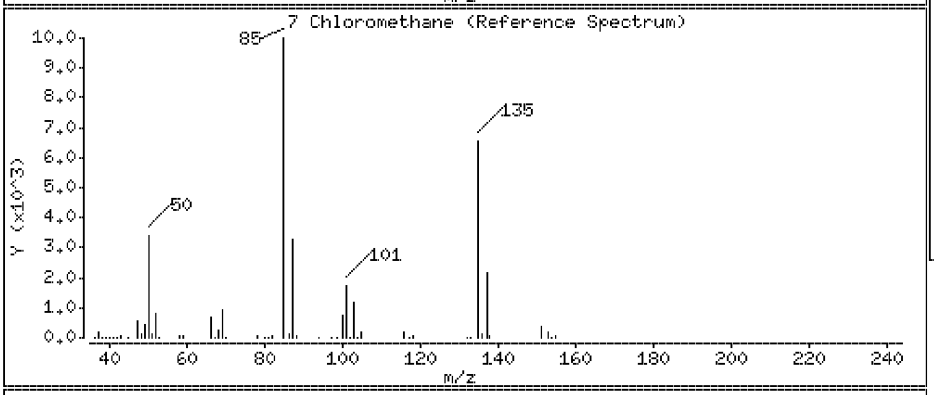
Column diameter: 0.32

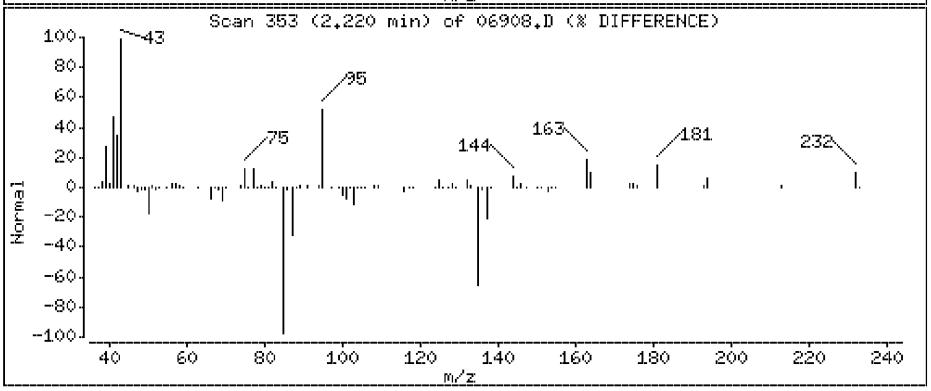
7 Chloromethane

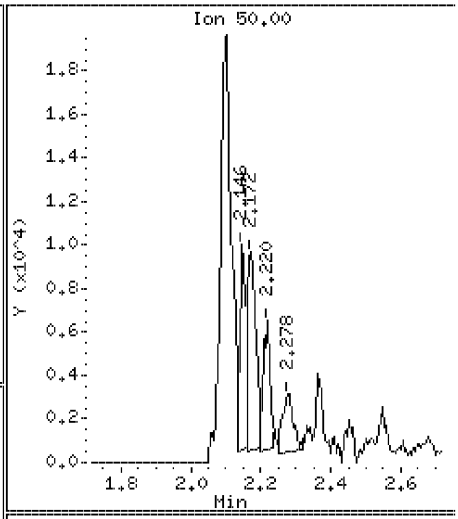
Concentration: 0.338 ppbv

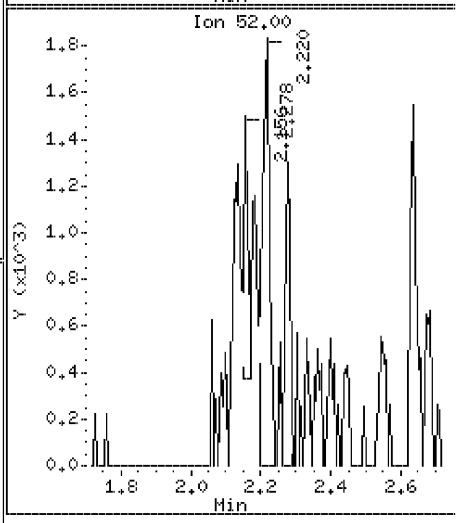












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

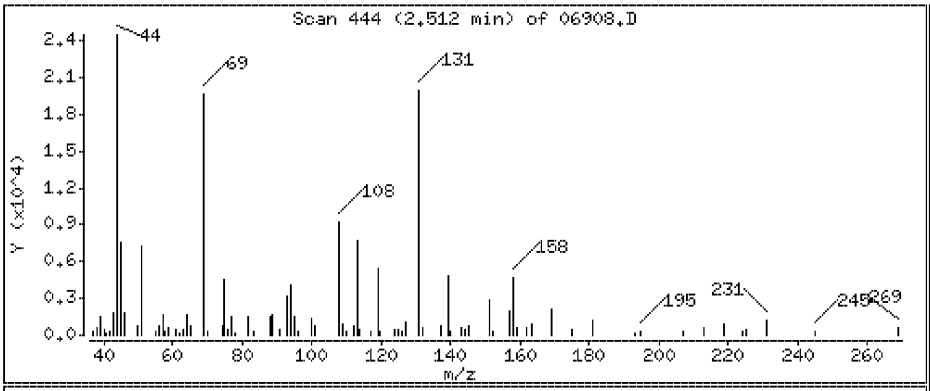
Operator: DR1

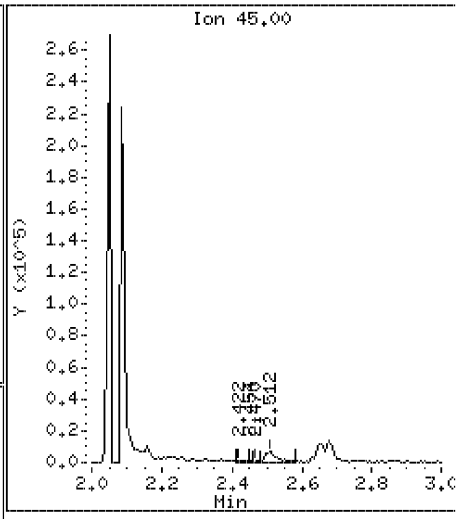
Column phase: J&W DB-5

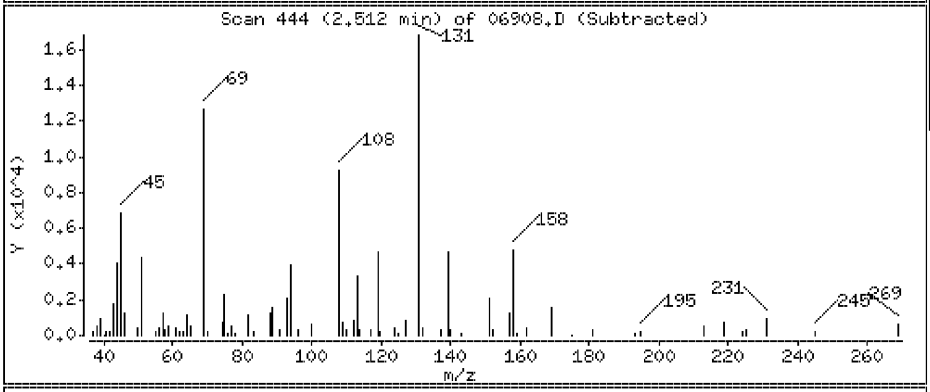
Column diameter: 0.32

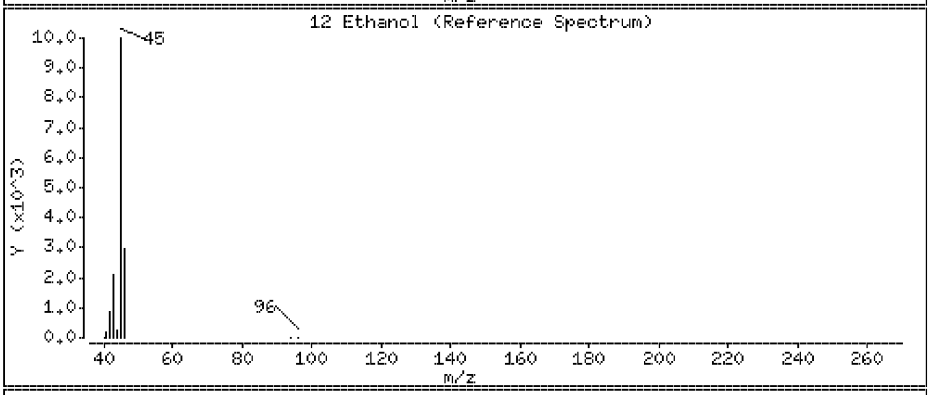
12 Ethanol

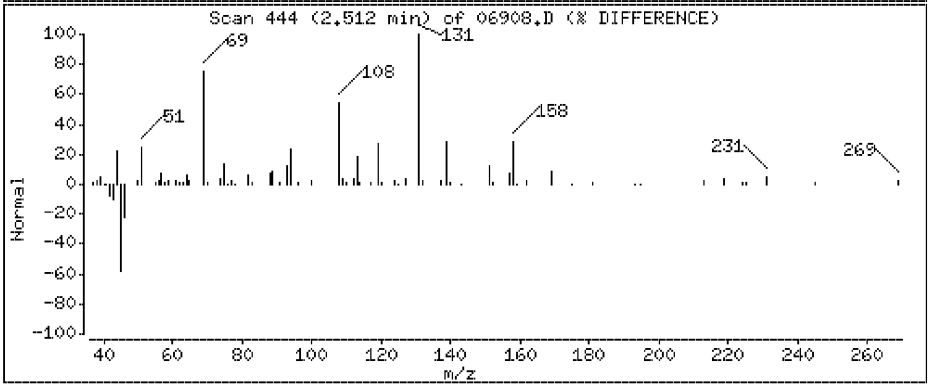
Concentration: 4.18 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

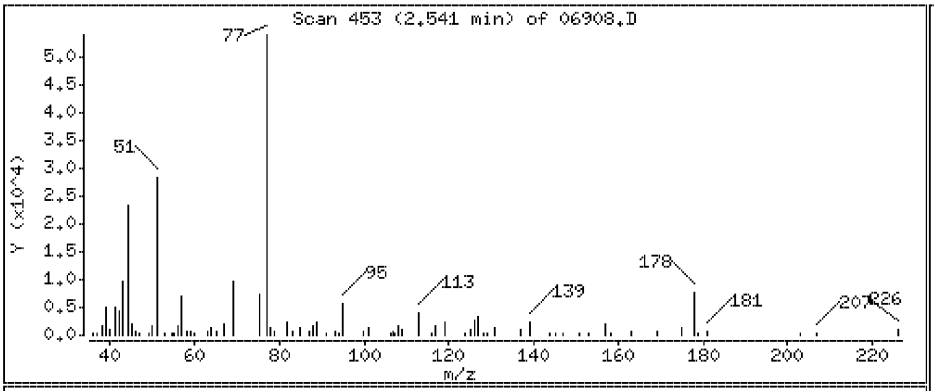
Operator: DR1

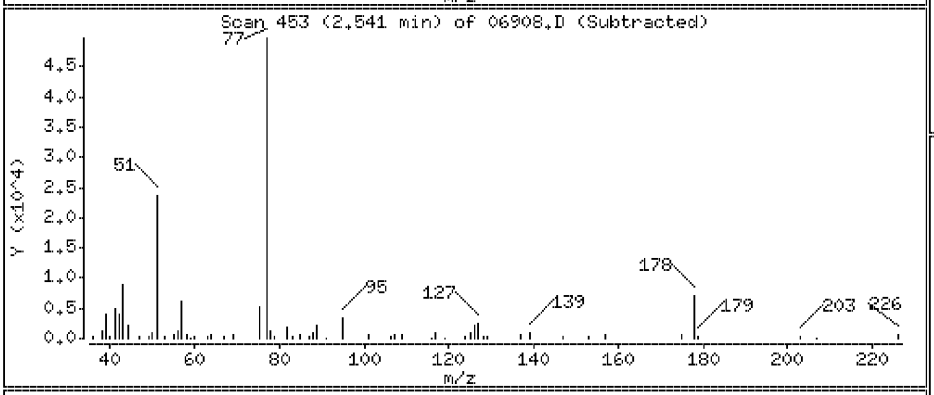
Column phase: J&W DB-5

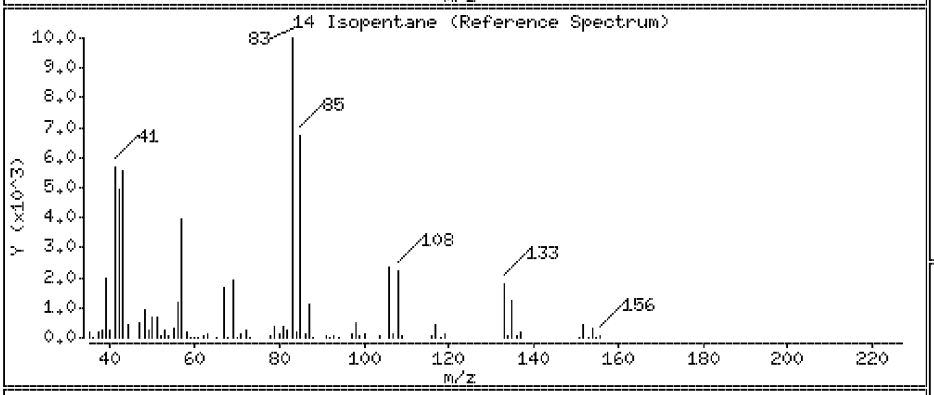
Column diameter: 0.32

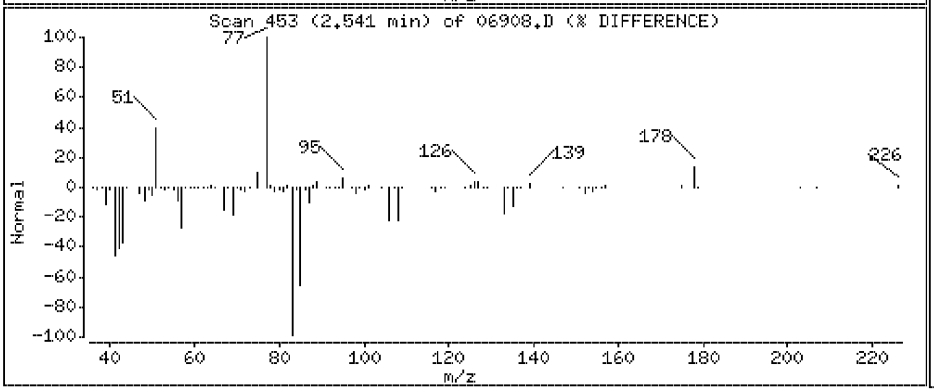
14 Isopentane

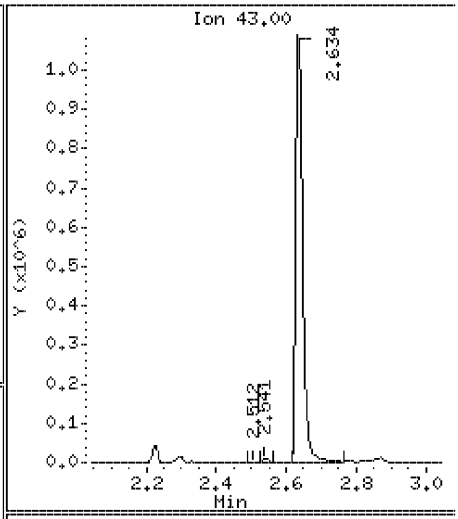
Concentration: 0.562 ppbv

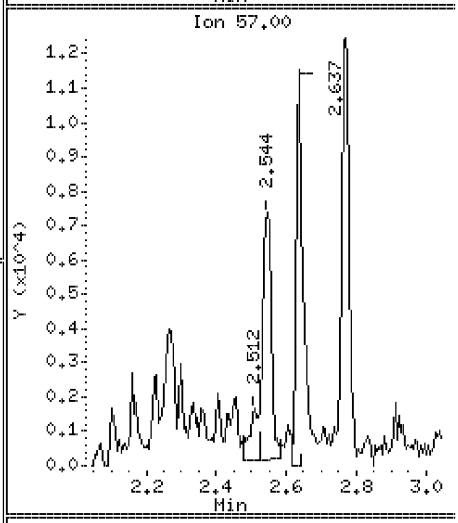


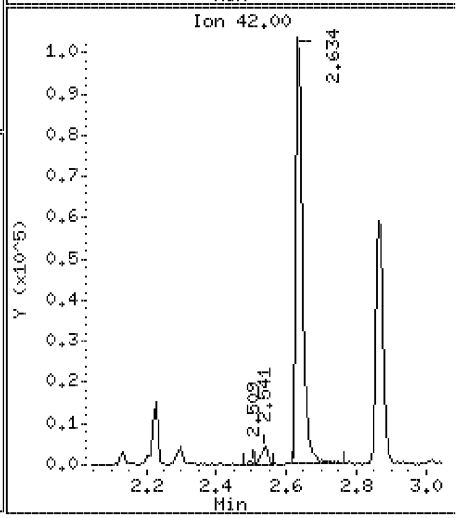












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

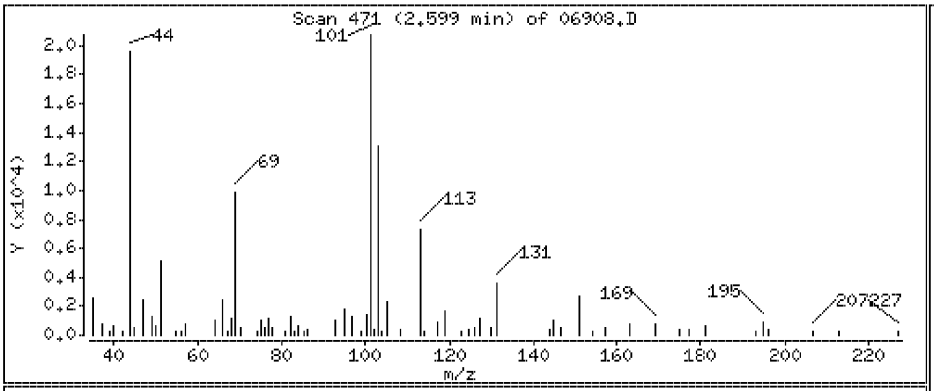
Operator: DR1

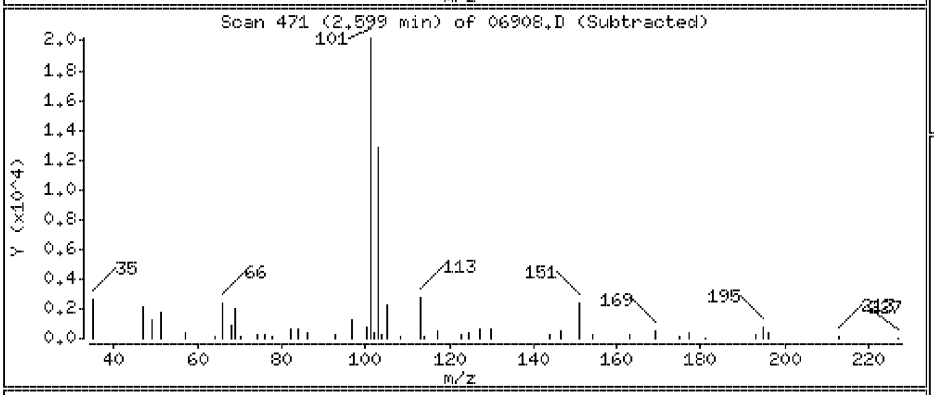
Column phase: J&W DB-5

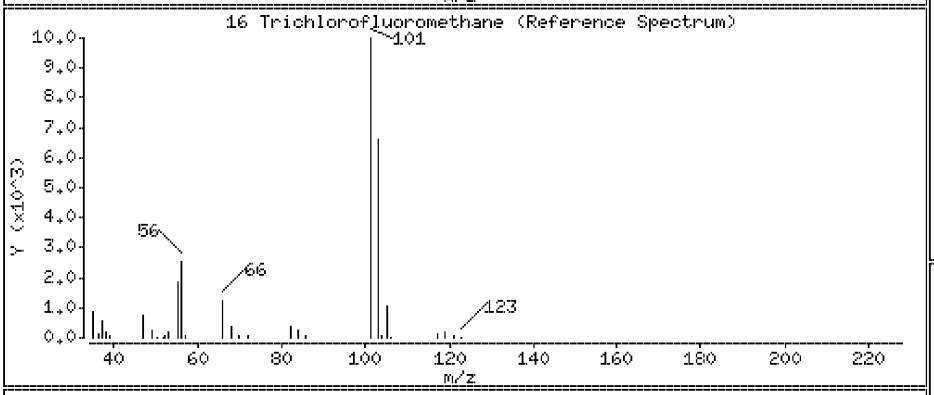
Column diameter: 0.32

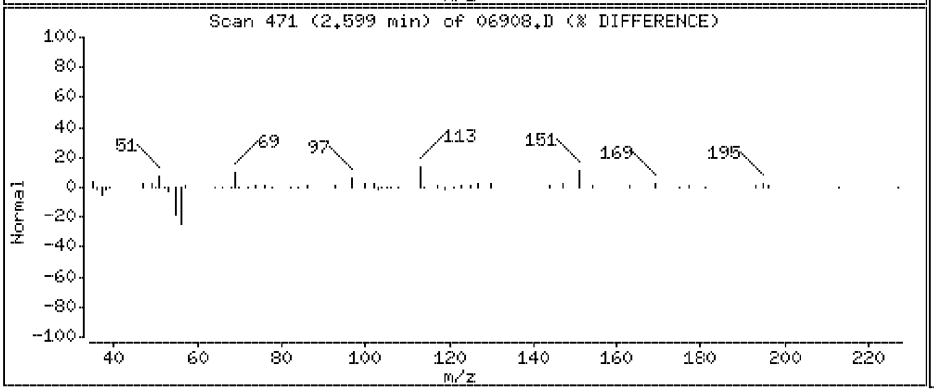
16 Trichlorofluoromethane

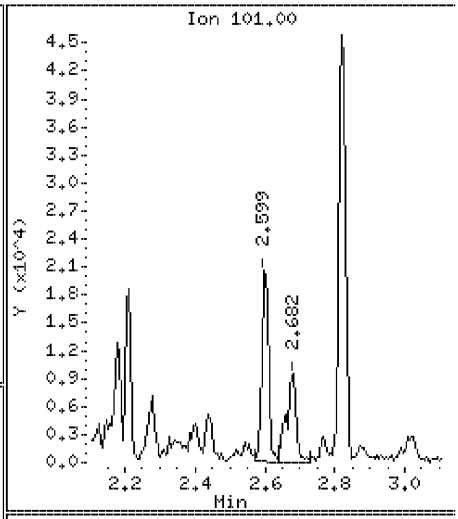
Concentration: 0.528 ppbv

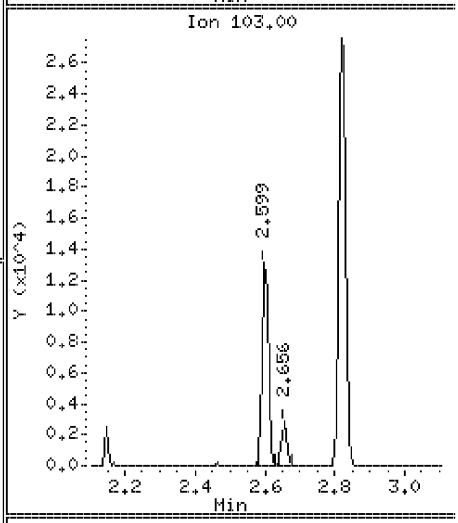


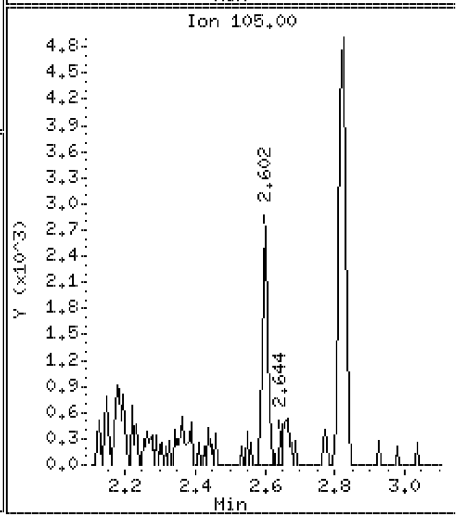












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

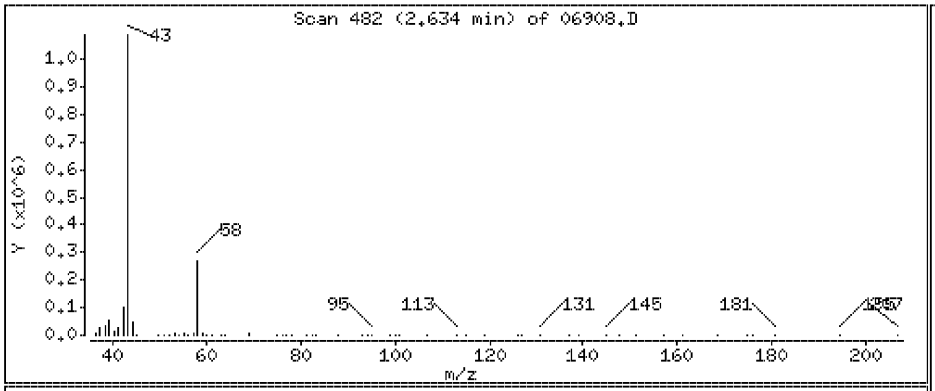
Operator: DR1

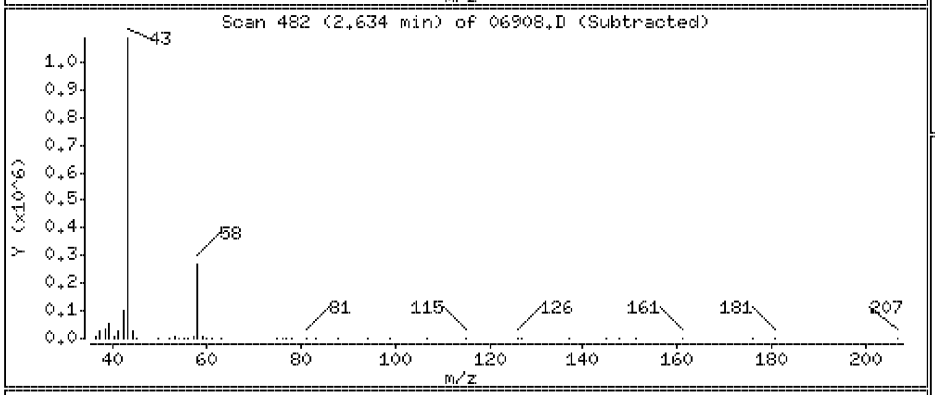
Column phase: J&W DB-5

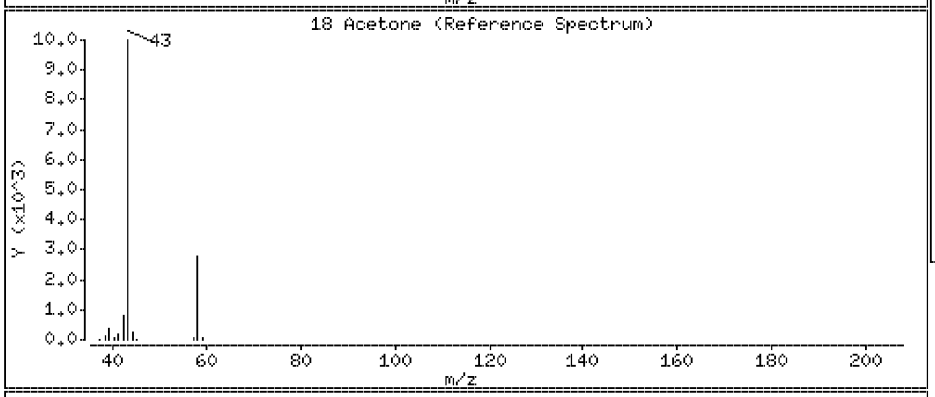
Column diameter: 0.32

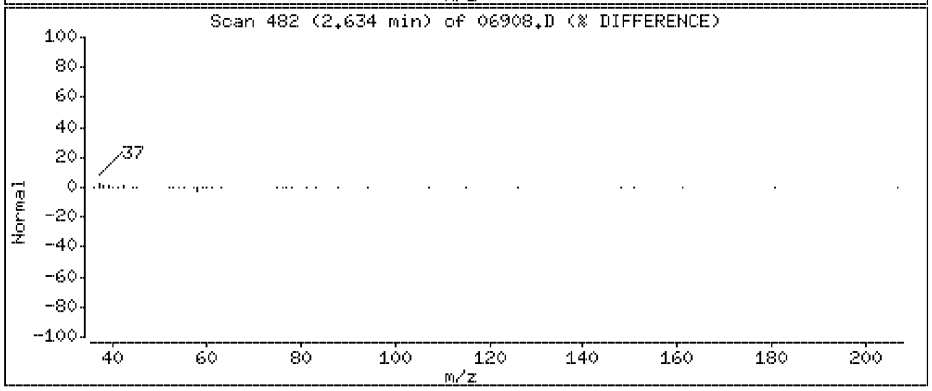
18 Acetone

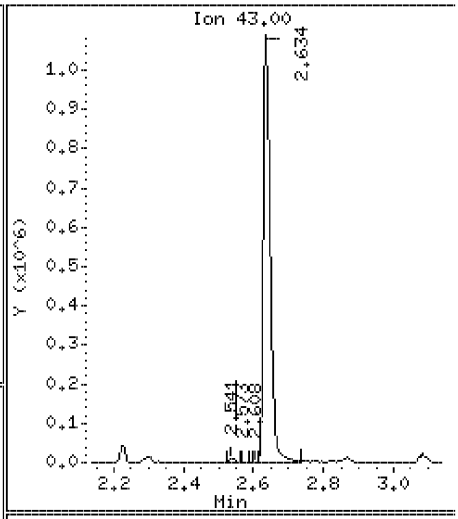
Concentration: 63.5 ppbv

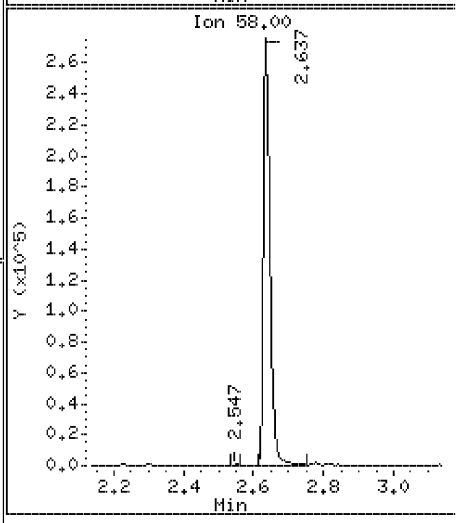












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

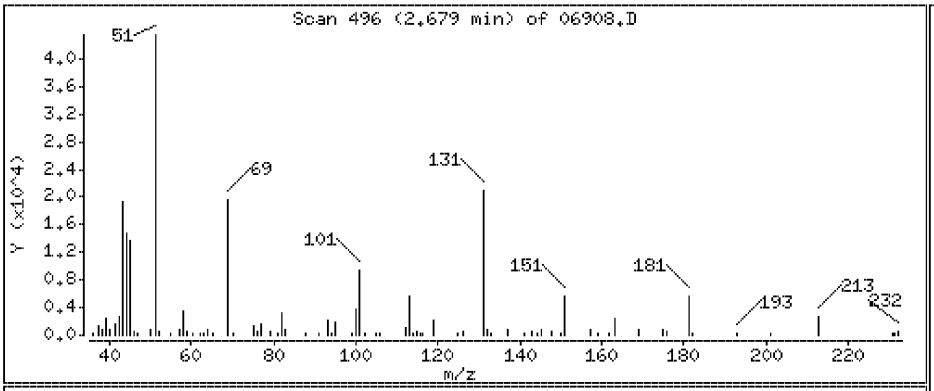
Operator: DR1

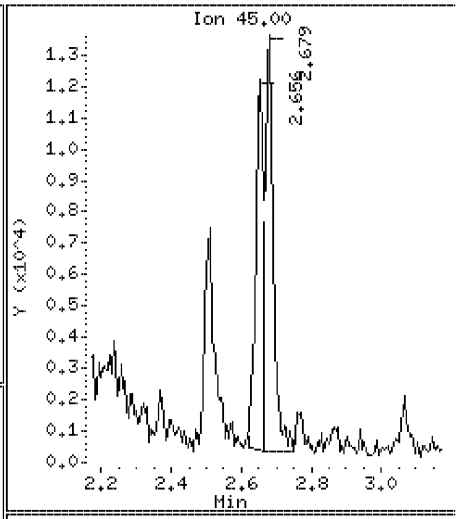
Column phase: J&W DB-5

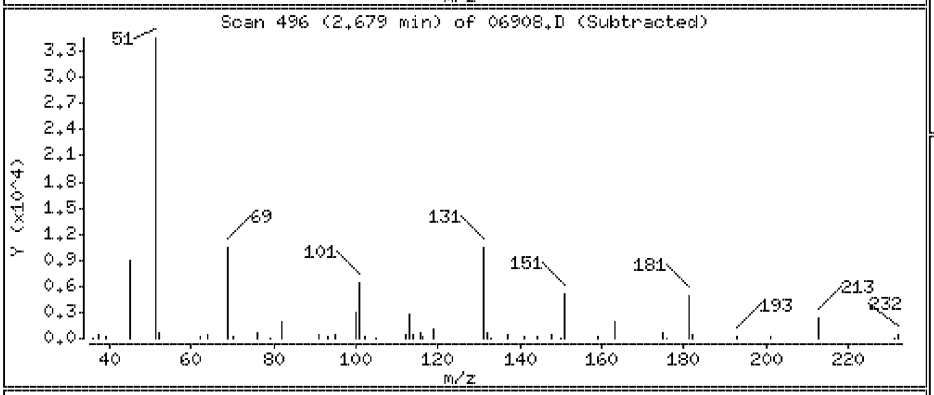
Column diameter: 0.32

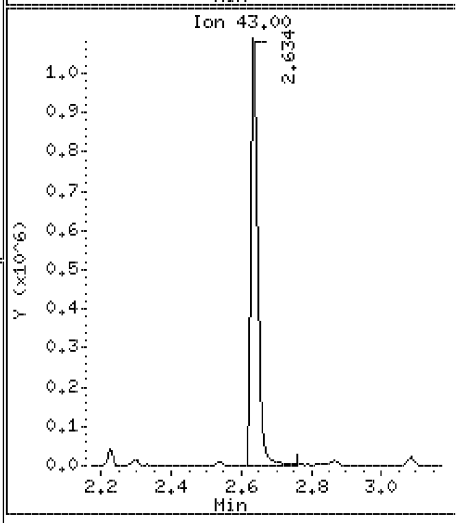
19 Isopropyl Alcohol

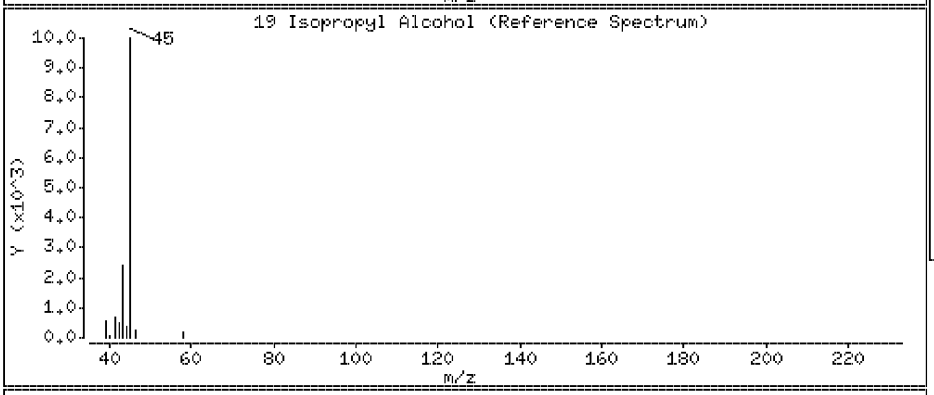
Concentration: 1.27 ppbv

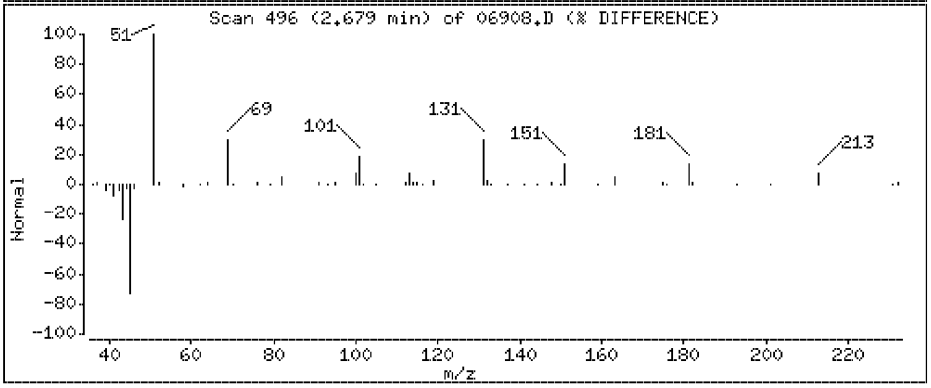












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

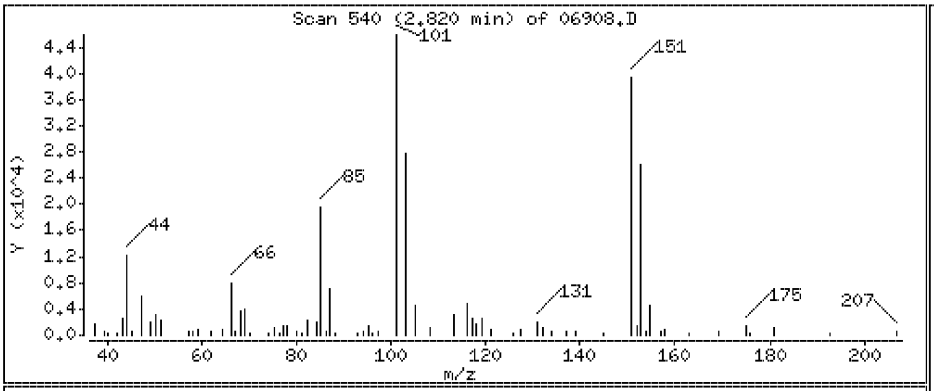
Operator: DR1

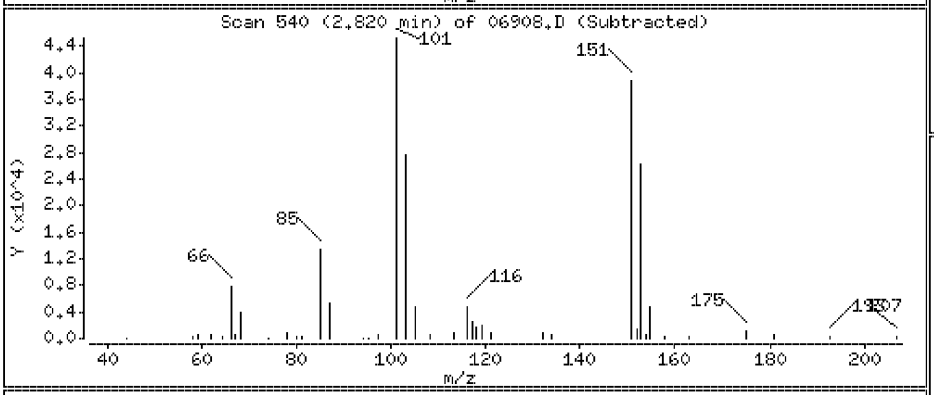
Column phase: J&W DB-5

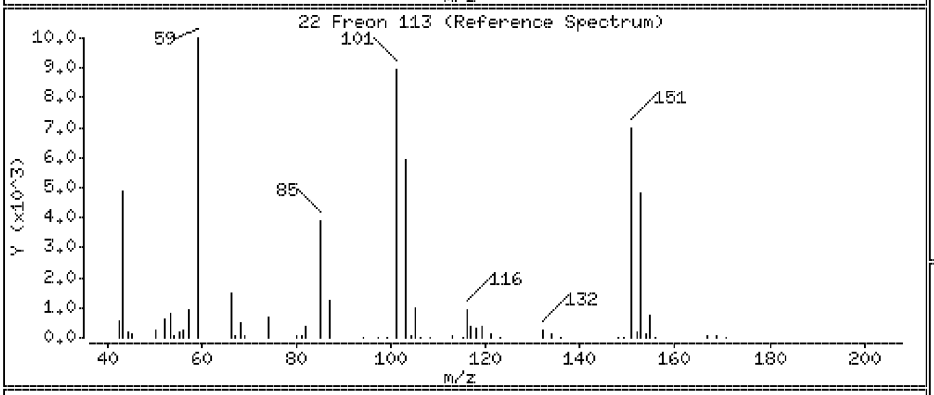
Column diameter: 0.32

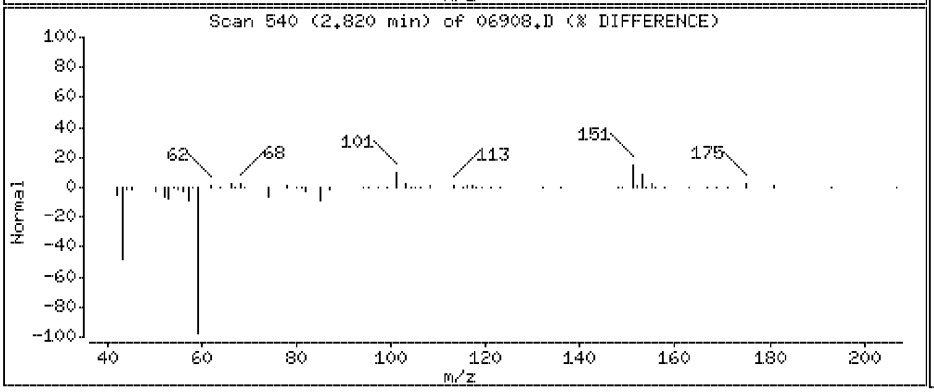
22 Freon 113

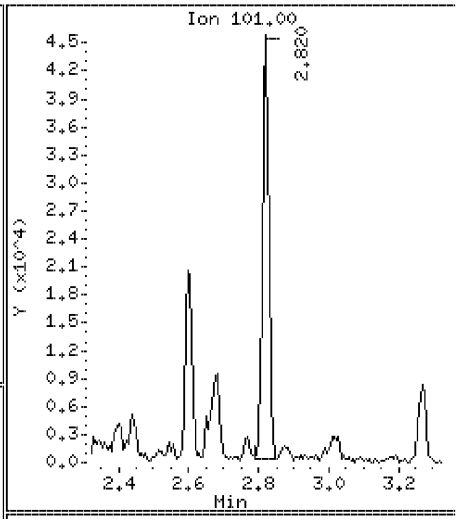
Concentration: 1.46 ppbv

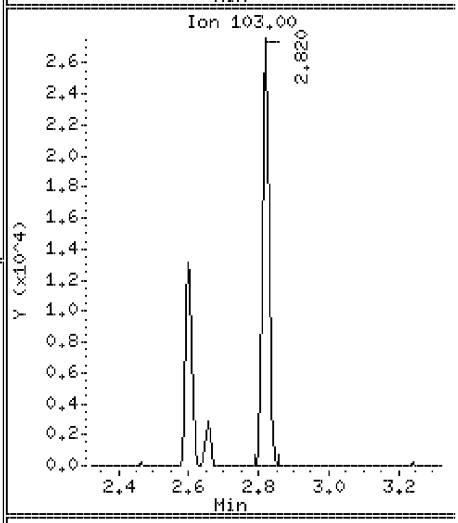


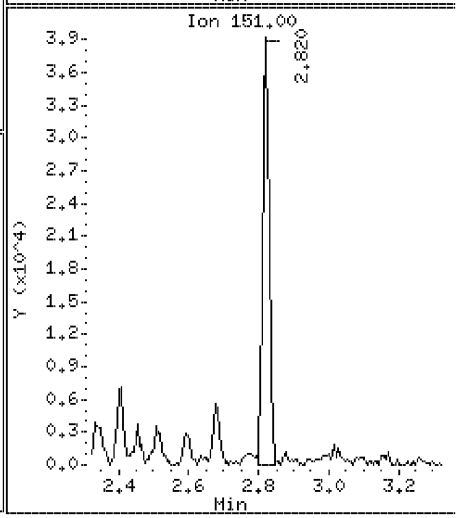












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

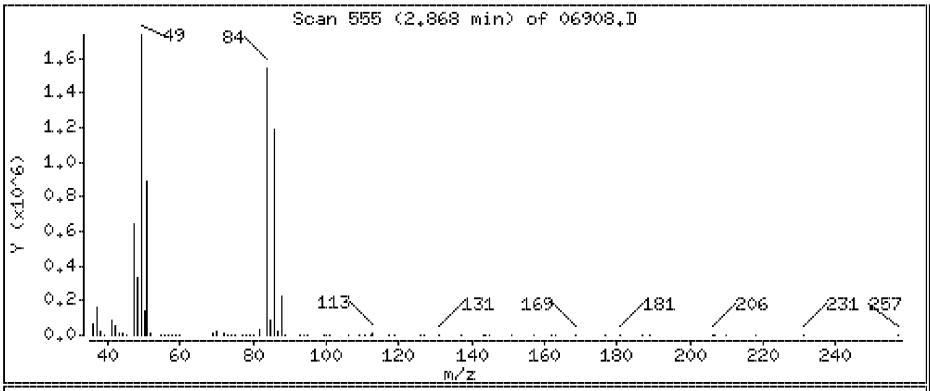
Operator: DR1

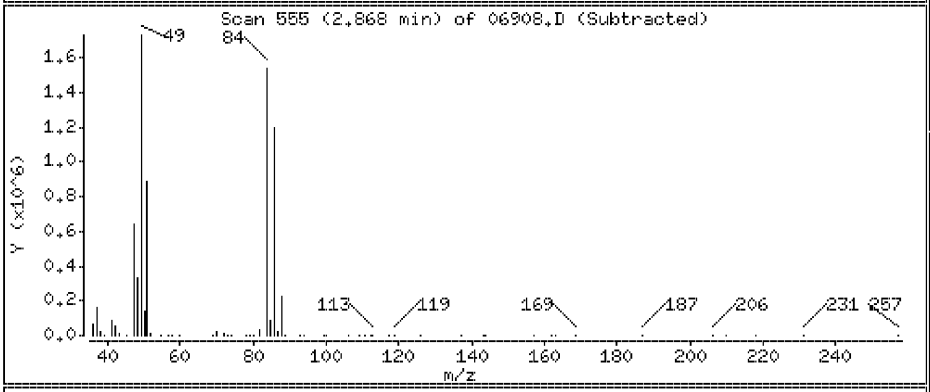
Column phase: J&W DB-5

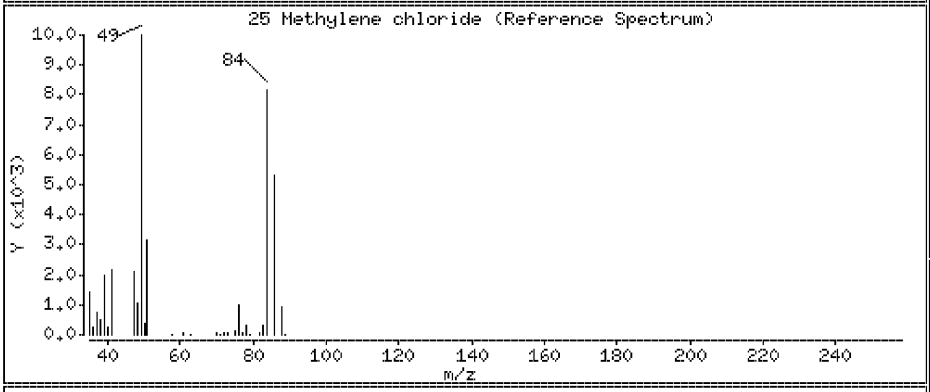
Column diameter: 0.32

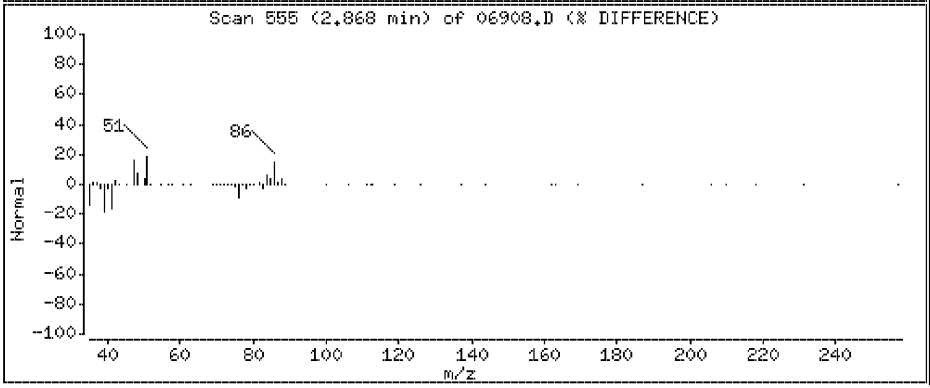
25 Methylene chloride

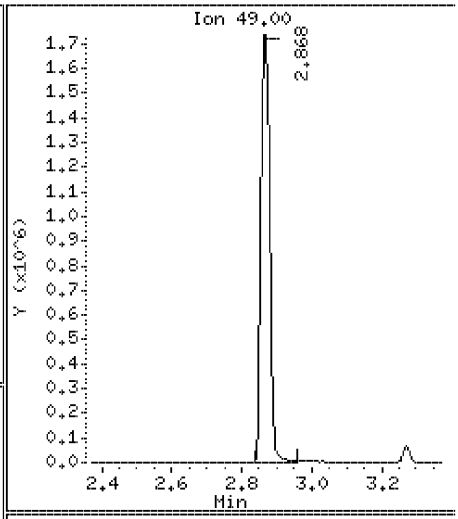
Concentration: 195 ppbv

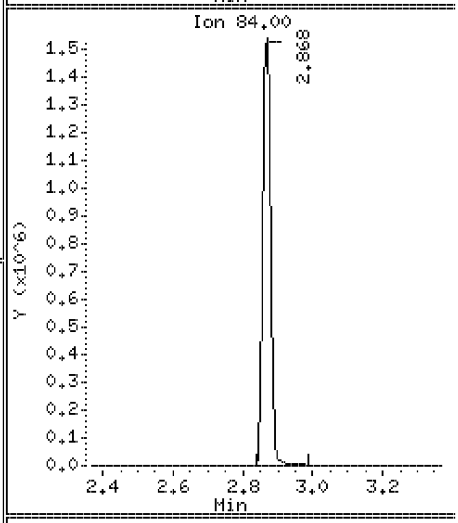


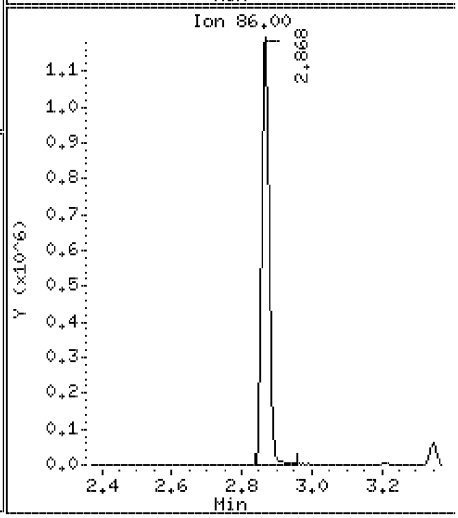












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

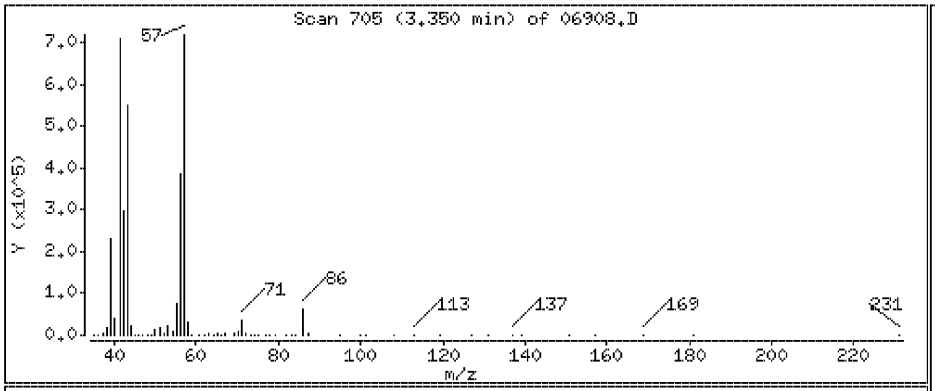
Operator: DR1

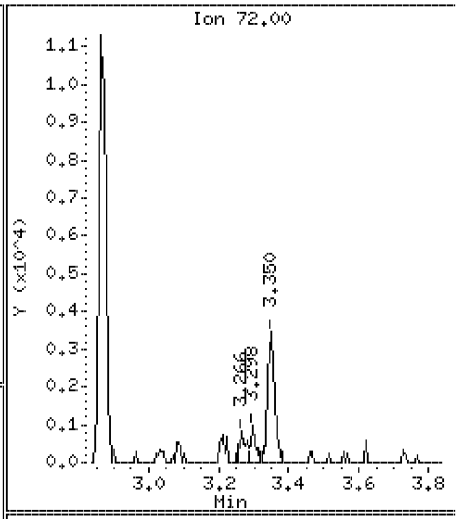
Column phase: J&W DB-5

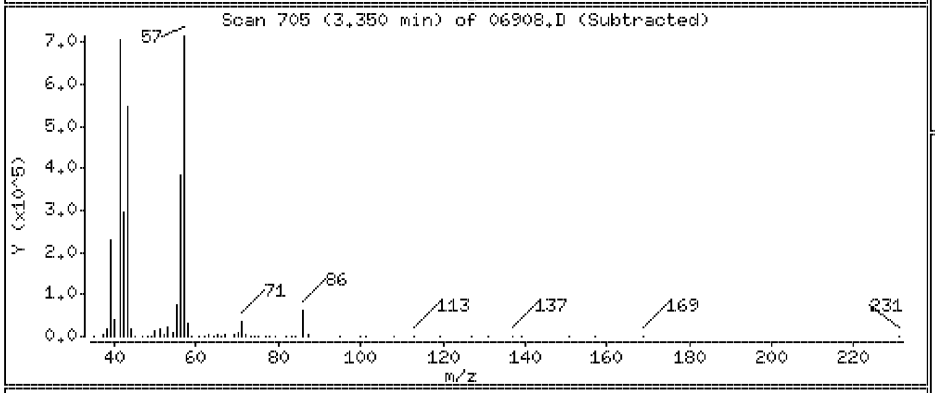
Column diameter: 0.32

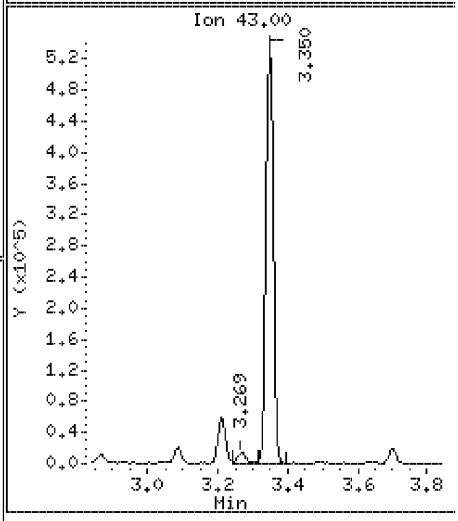
33 Methyl Ethyl Ketone

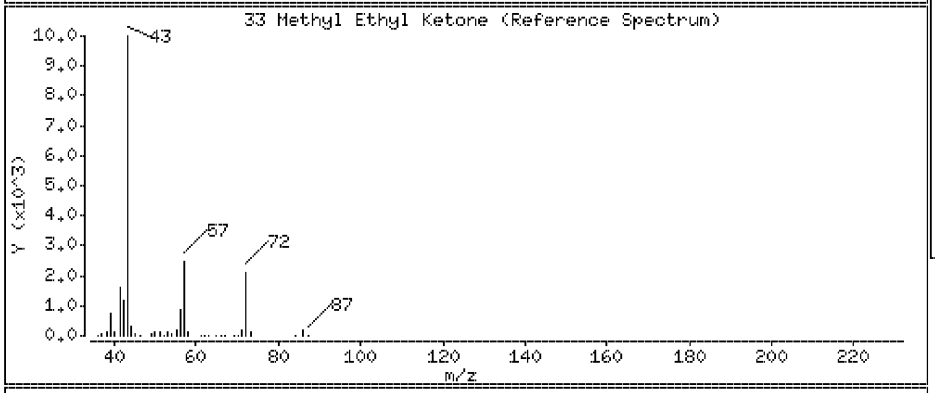
Concentration: 0.659 ppbv

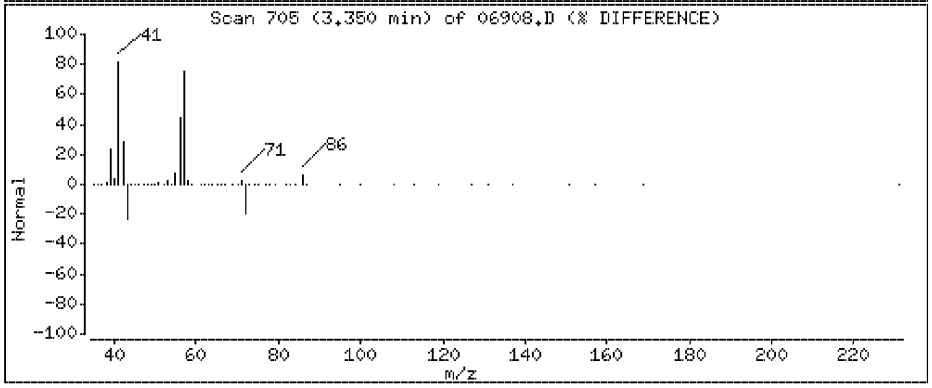












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

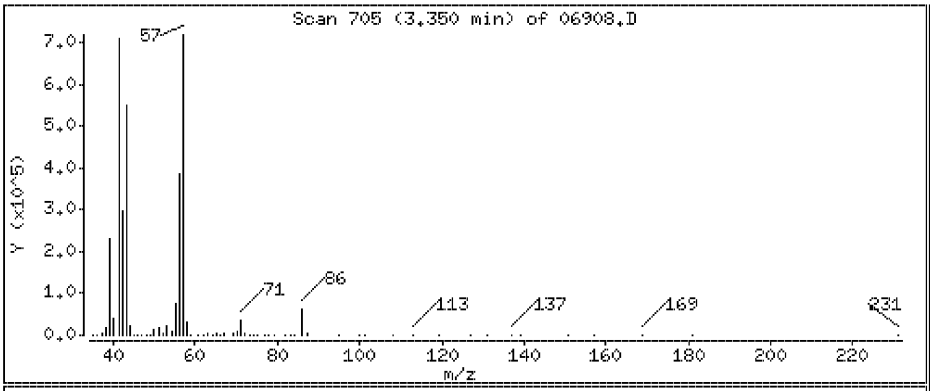
Operator: DR1

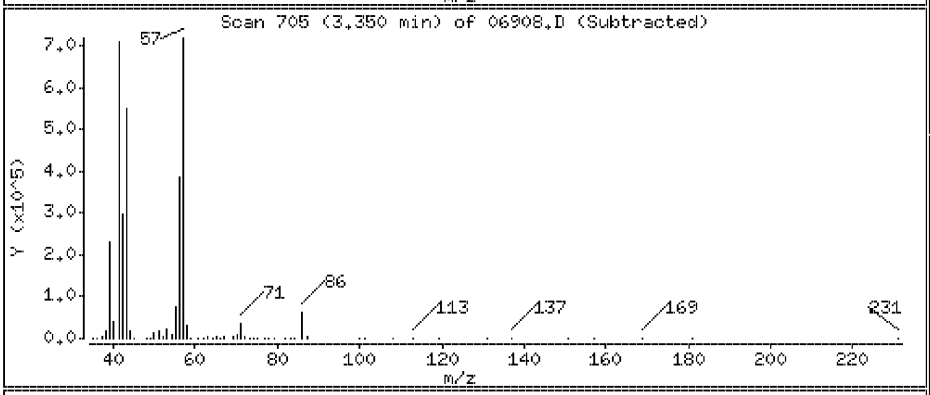
Column phase: J&W DB-5

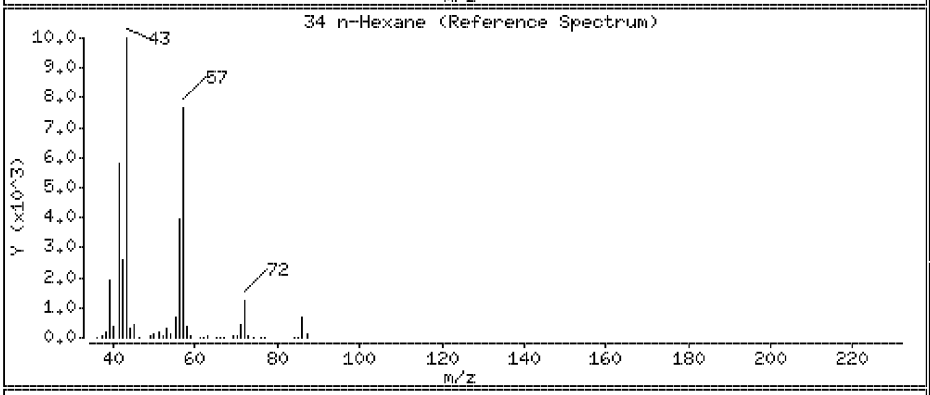
Column diameter: 0.32

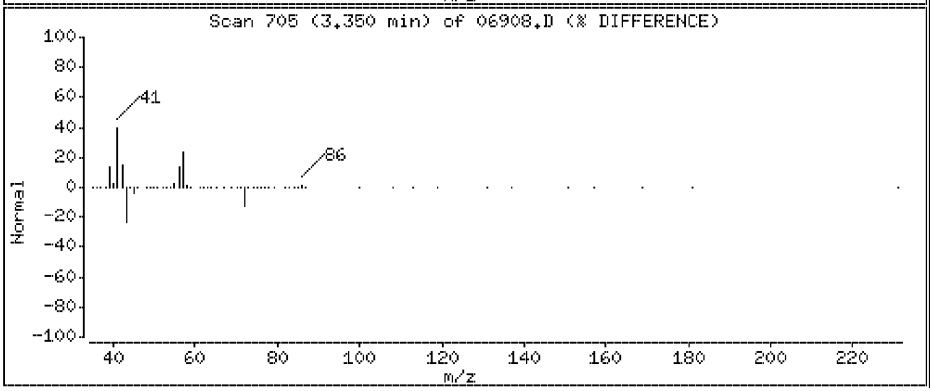
34 n-Hexane

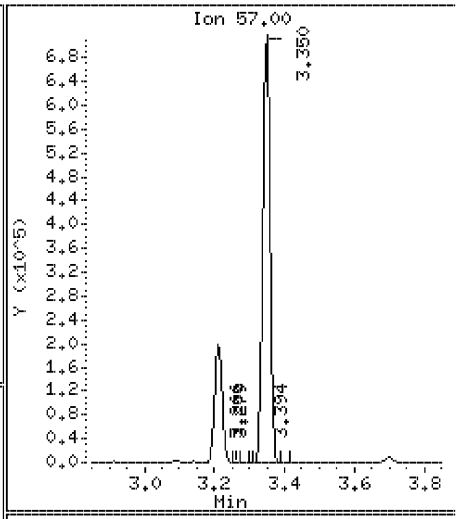
Concentration: 40.7 ppbv

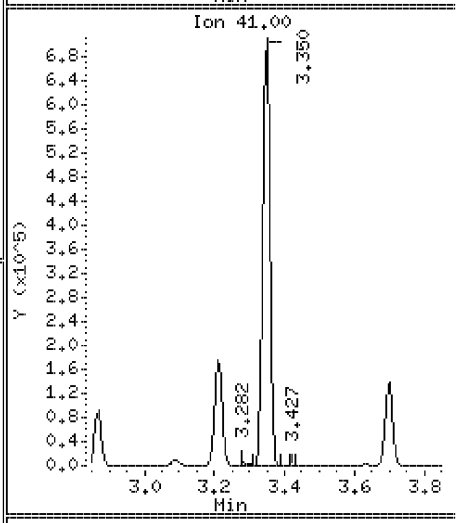


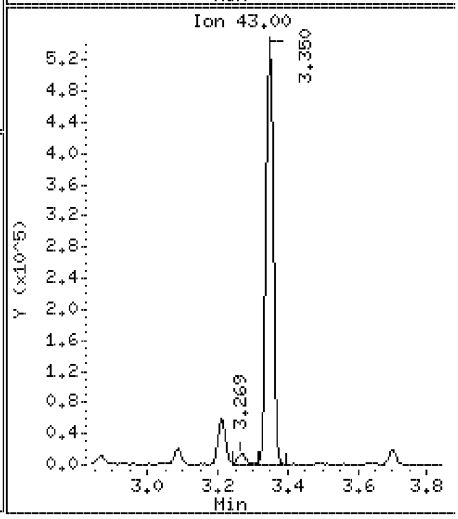












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

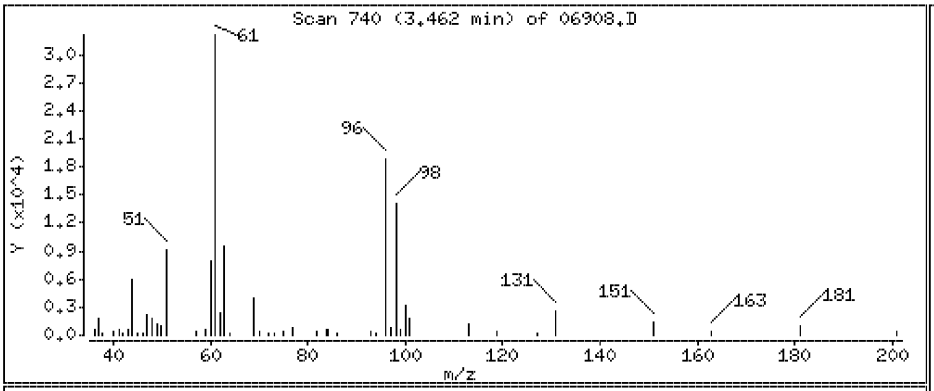
Operator: DR1

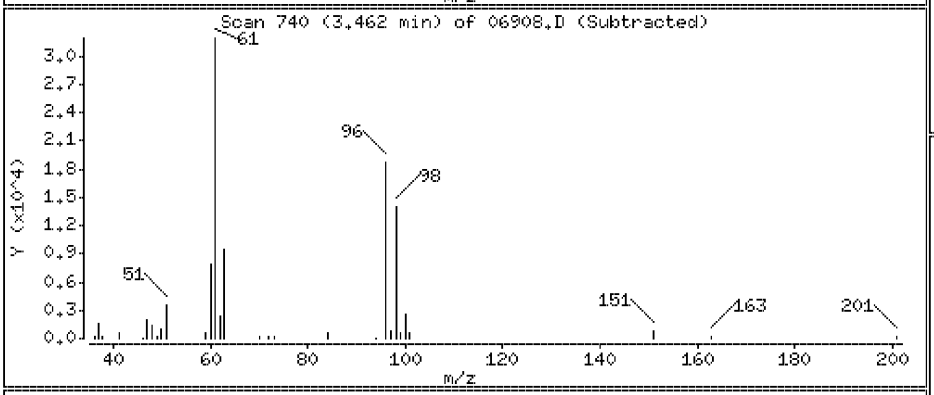
Column phase: J&W DB-5

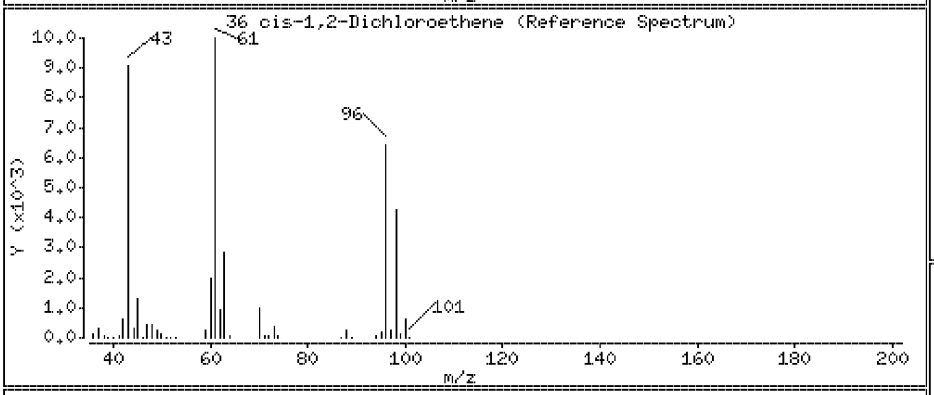
Column diameter: 0.32

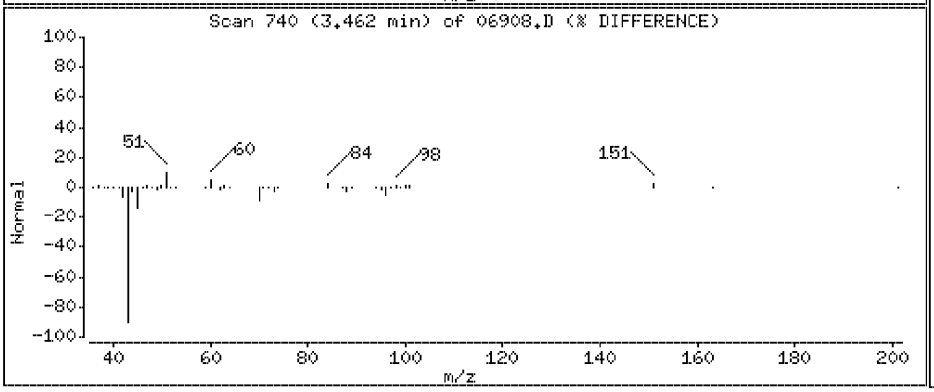
36 cis-1,2-Dichloroethene

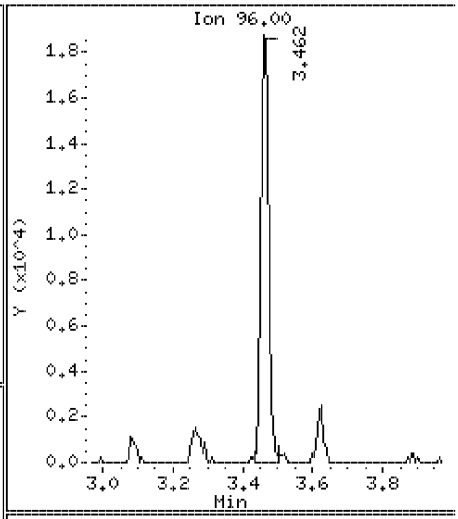
Concentration: 1.76 ppbv

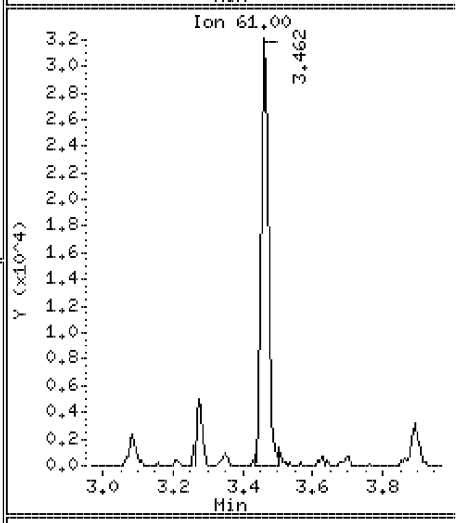


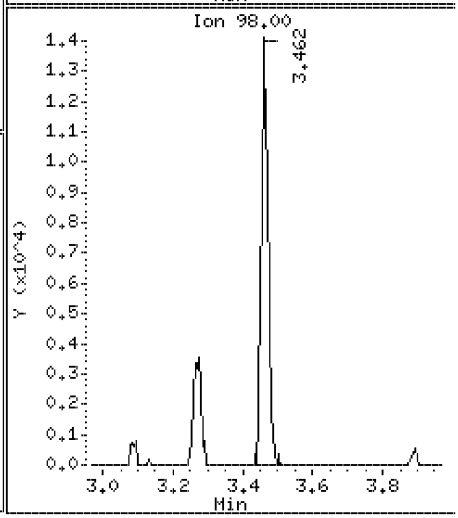












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

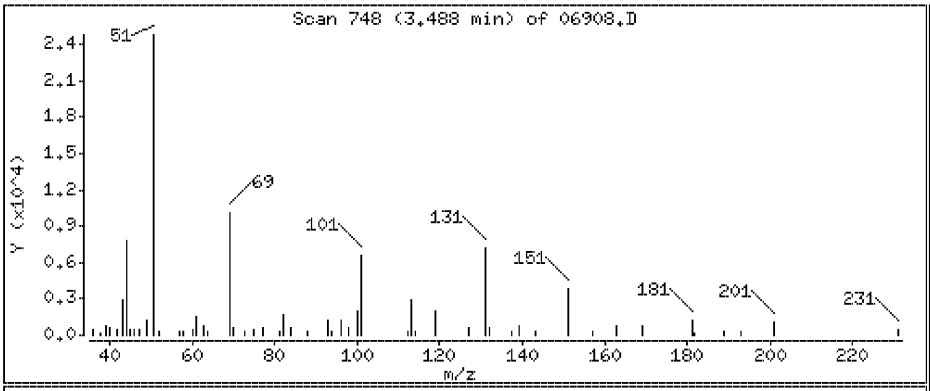
Operator: DR1

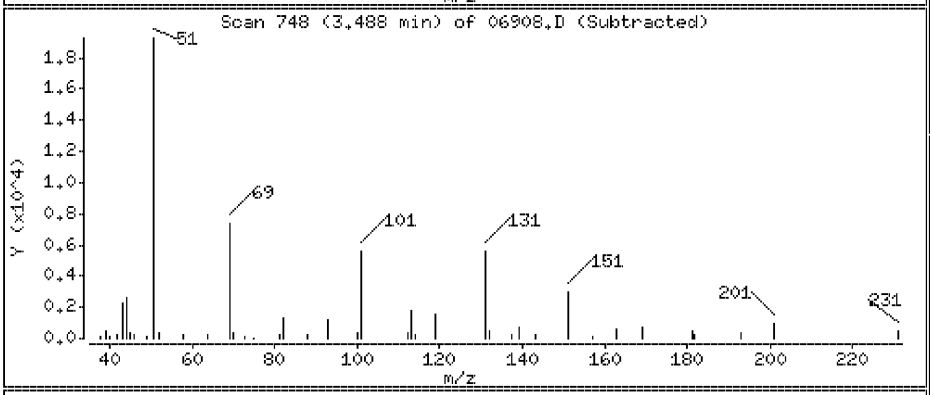
Column phase: J&W DB-5

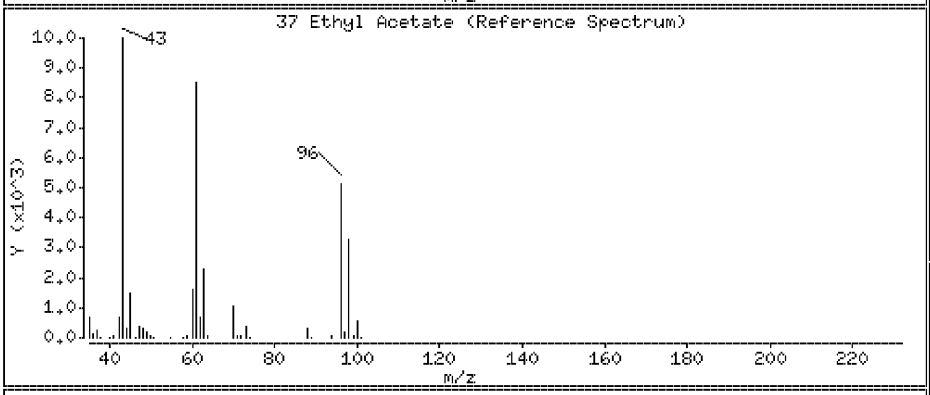
Column diameter: 0.32

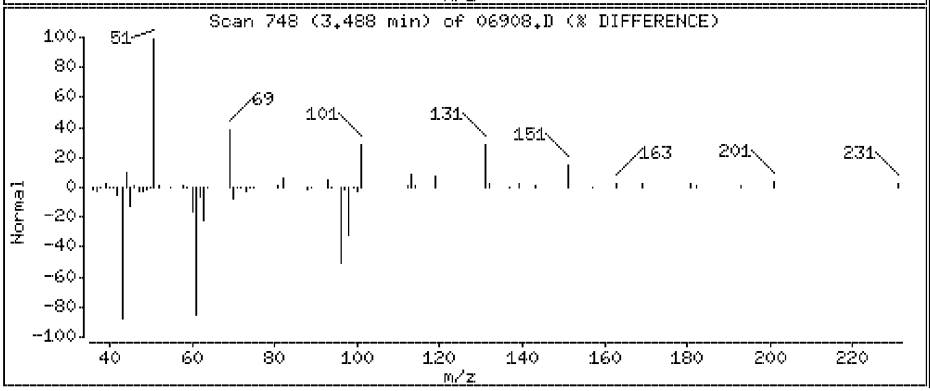
37 Ethyl Acetate

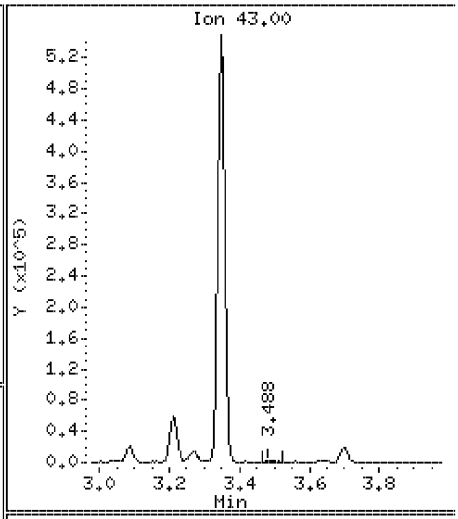
Concentration: 0.107 ppbv

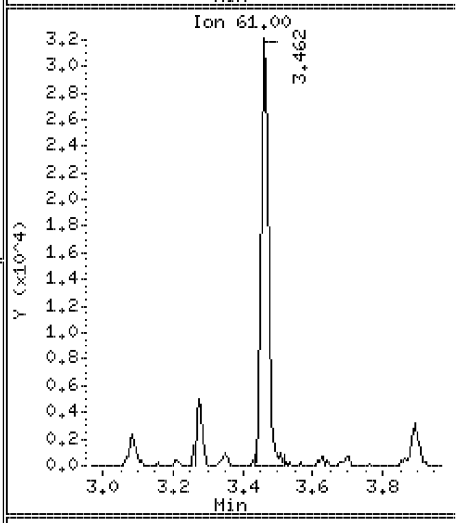


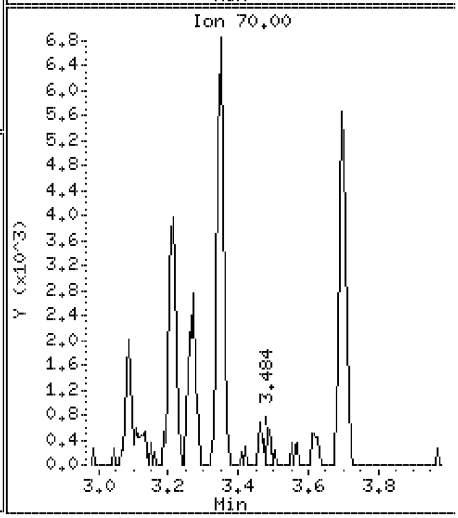












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

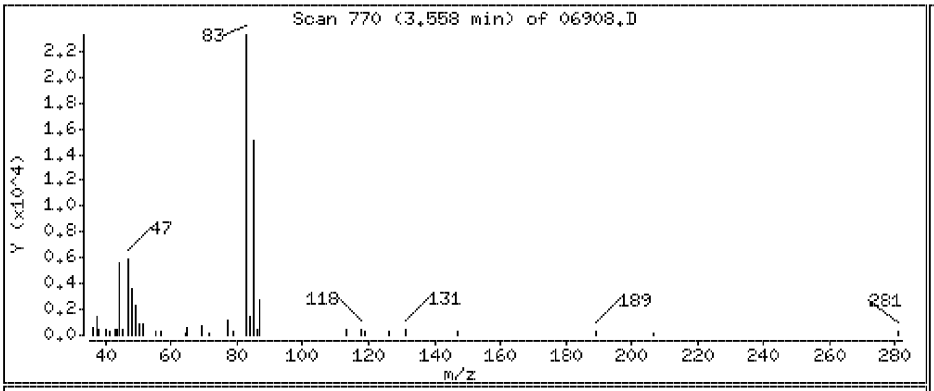
Operator: DR1

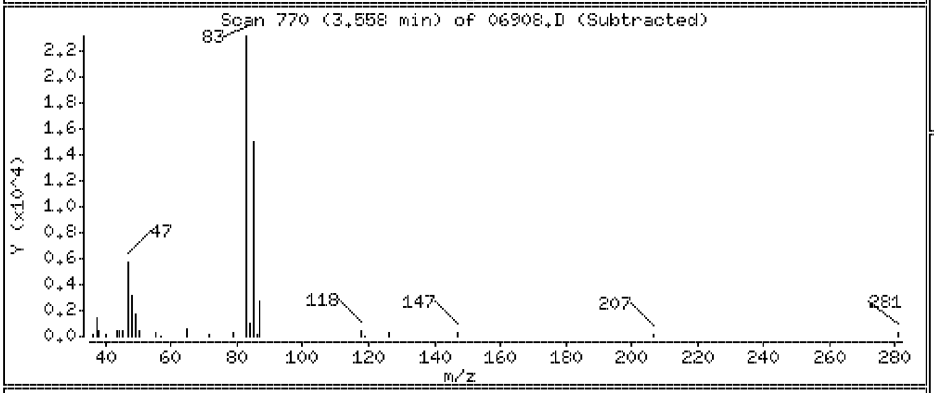
Column phase: J&W DB-5

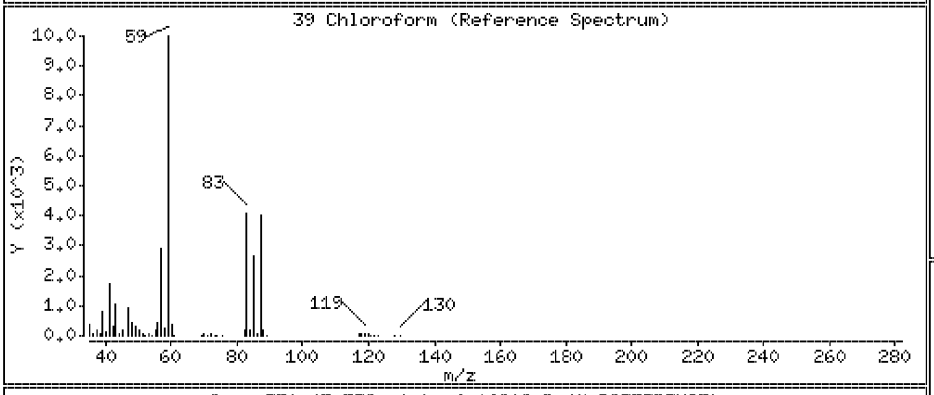
Column diameter: 0.32

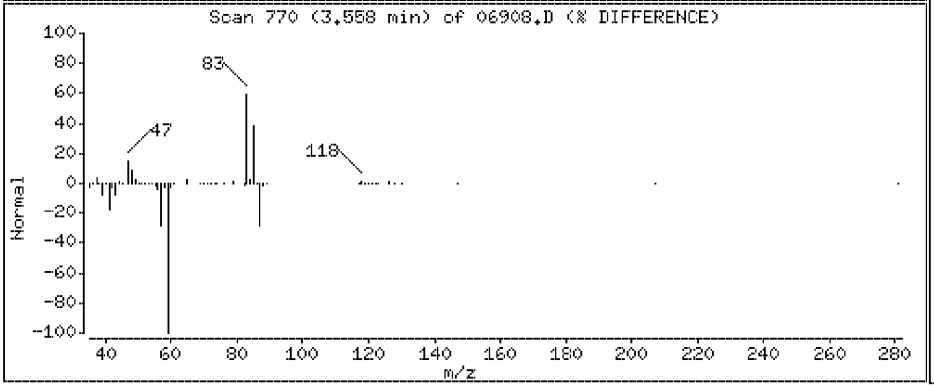
39 Chloroform

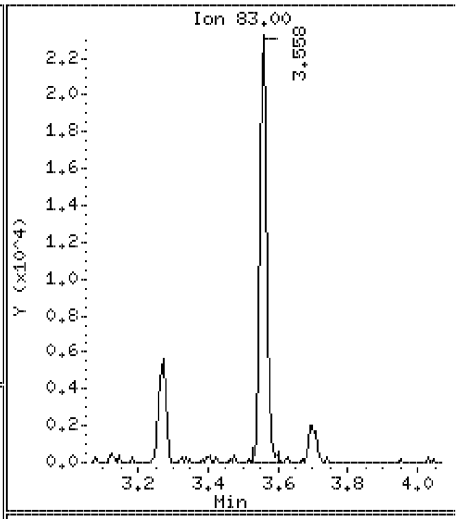
Concentration: 0.788 ppbv

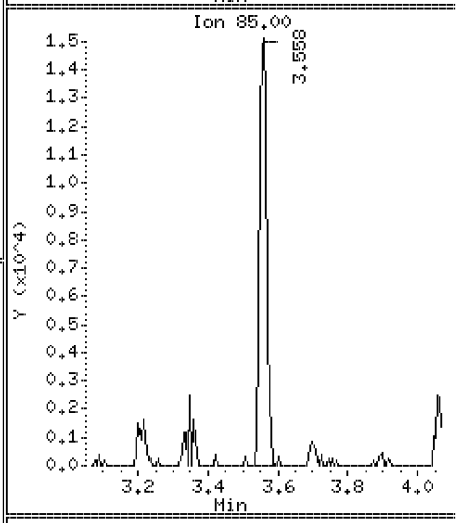


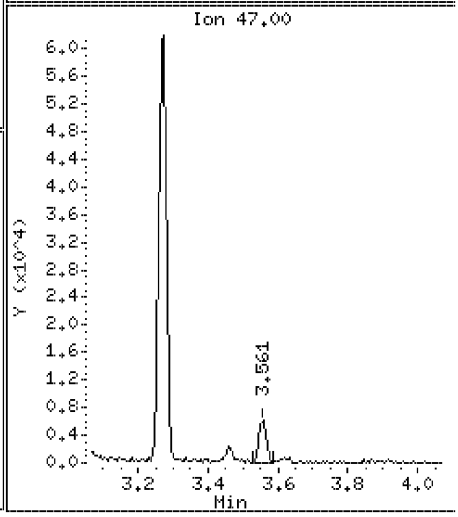












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

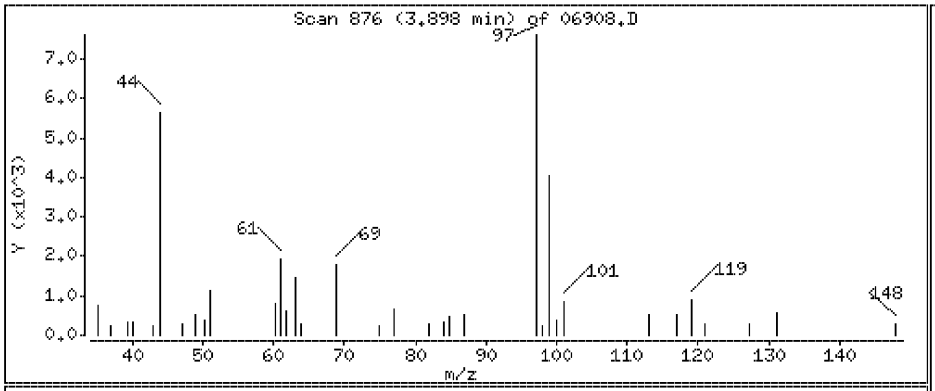
Operator: DR1

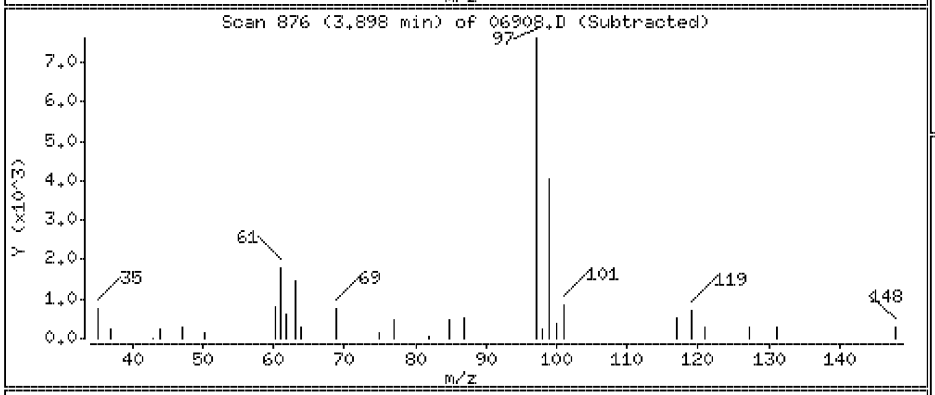
Column phase: J&W DB-5

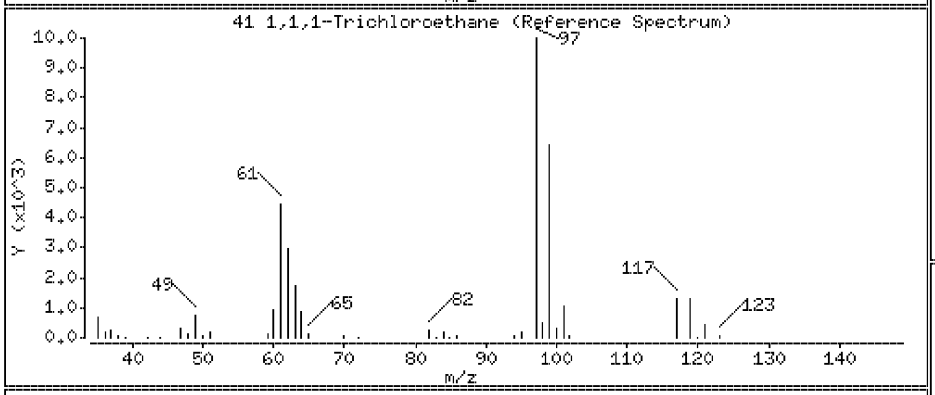
Column diameter: 0.32

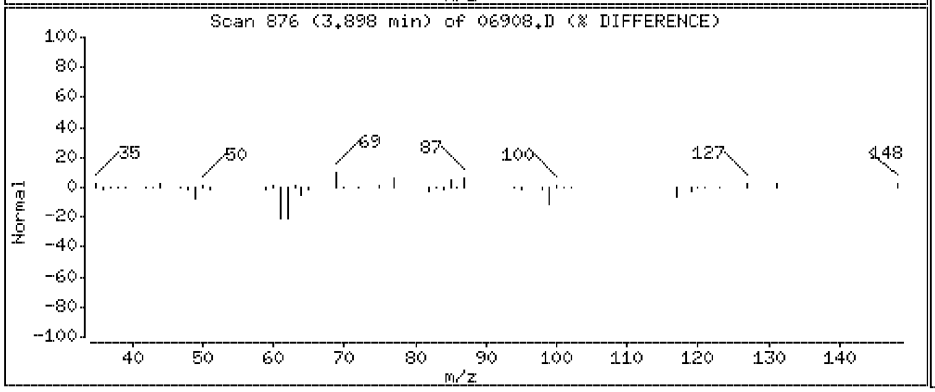
41 1,1,1-Trichloroethane

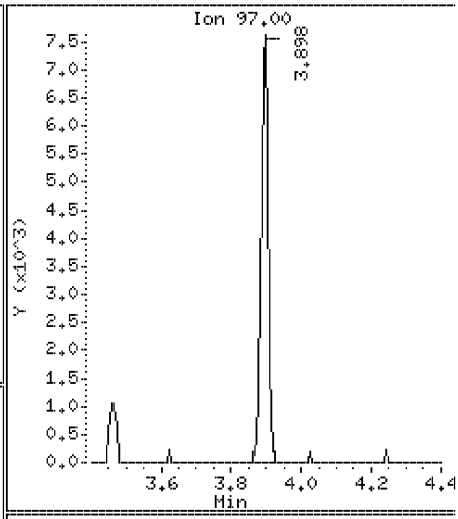
Concentration: 0.250 ppbv

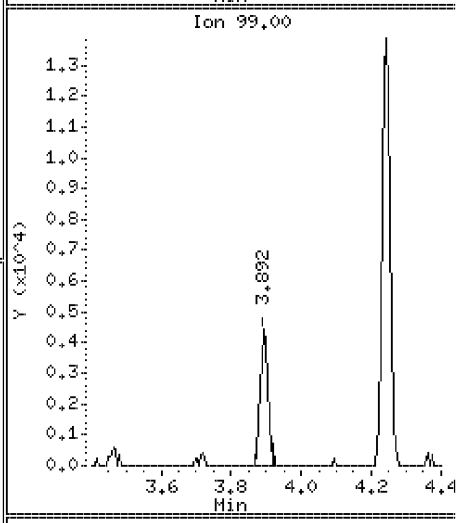


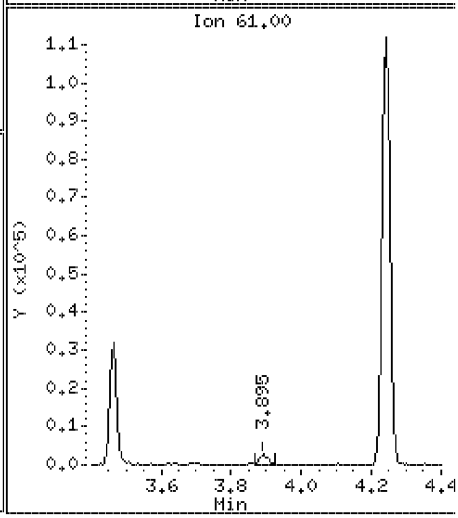












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

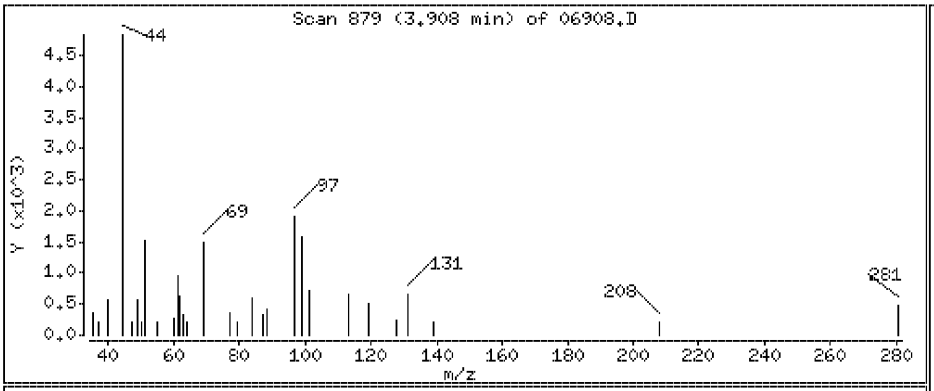
Operator: DR1

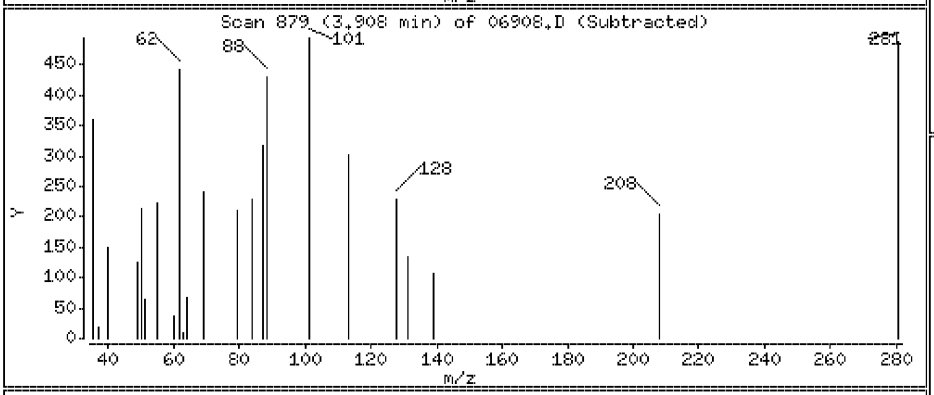
Column phase: J&W DB-5

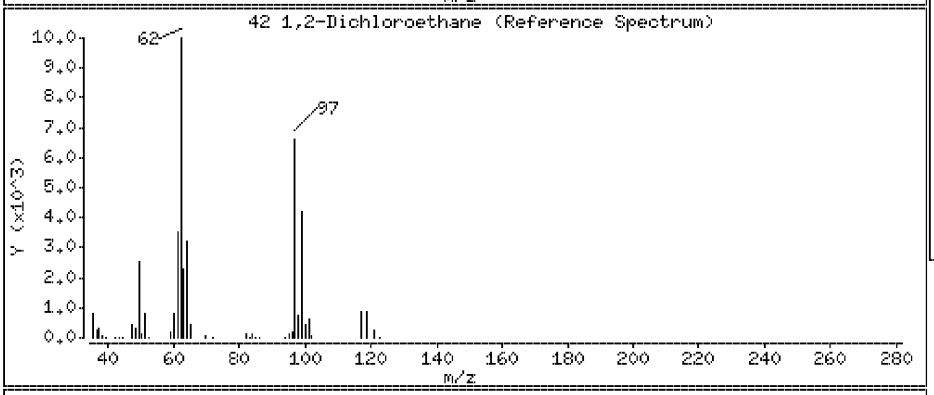
Column diameter: 0.32

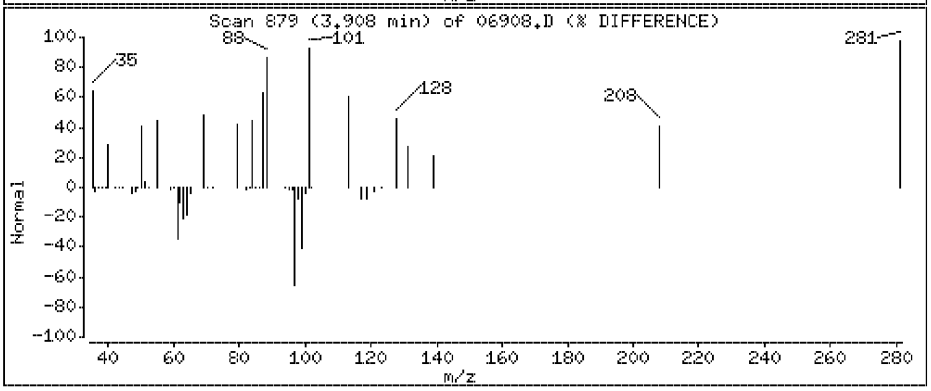
42 1,2-Dichloroethane

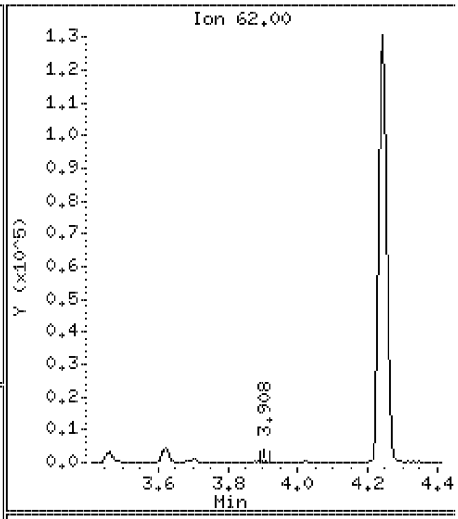
Concentration: 0.0182 ppbv

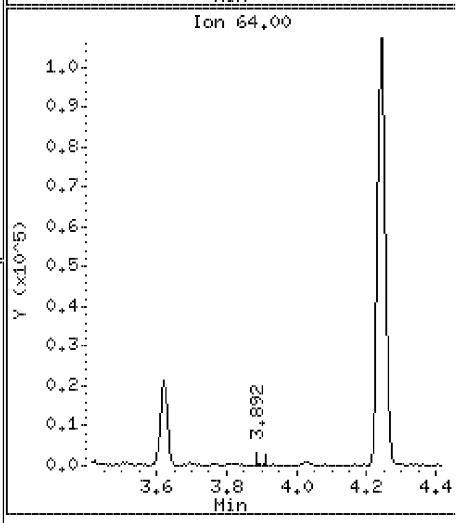












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

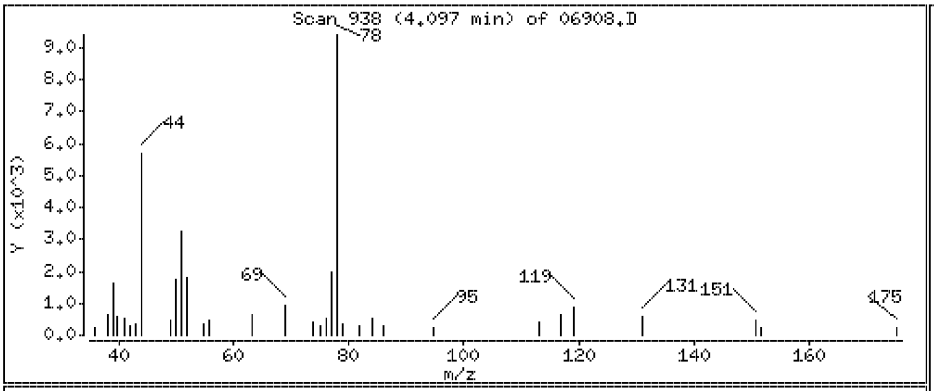
Operator: DR1

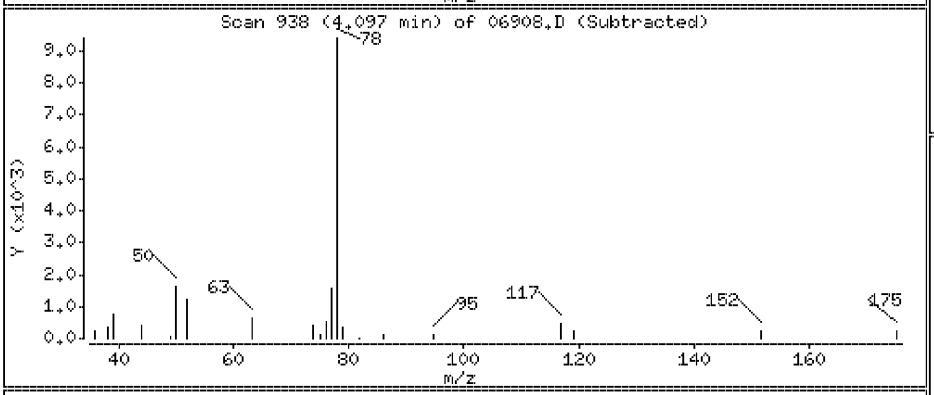
Column phase: J&W DB-5

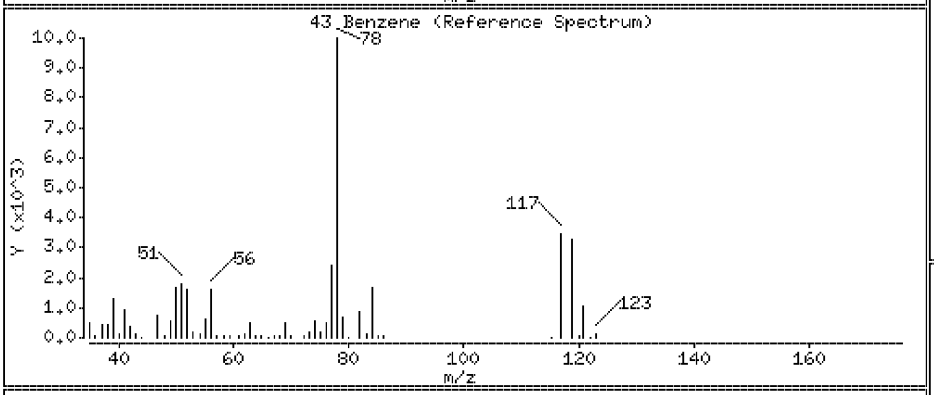
Column diameter: 0.32

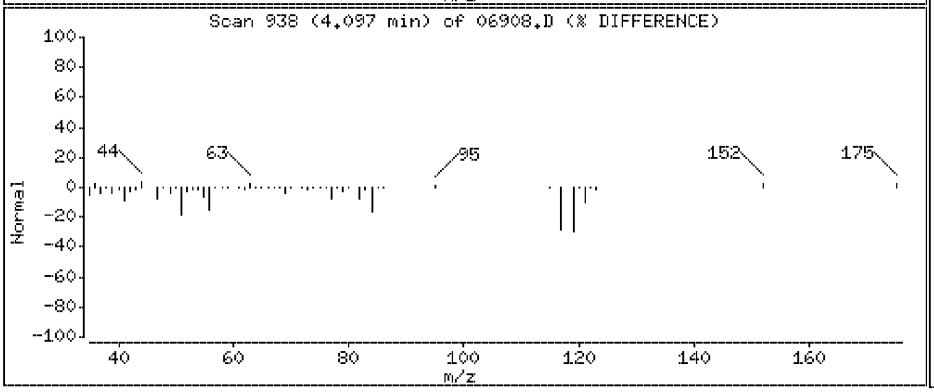
43 Benzene

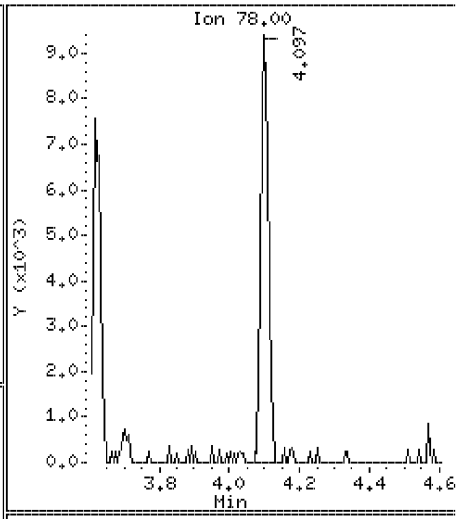
Concentration: 0.291 ppbv

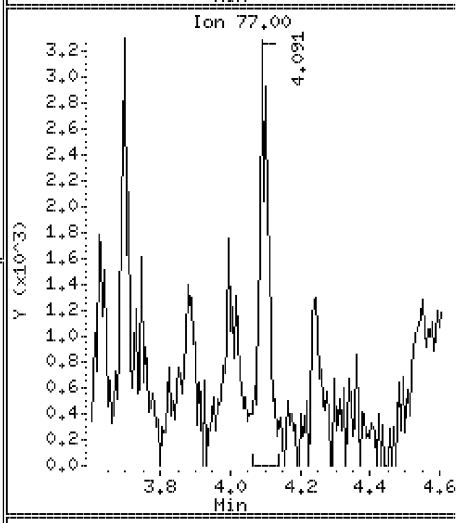


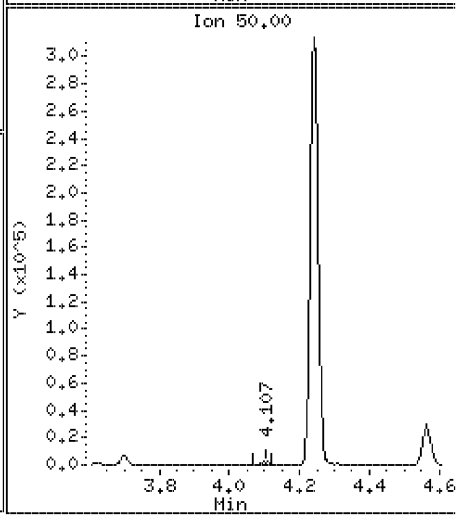












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

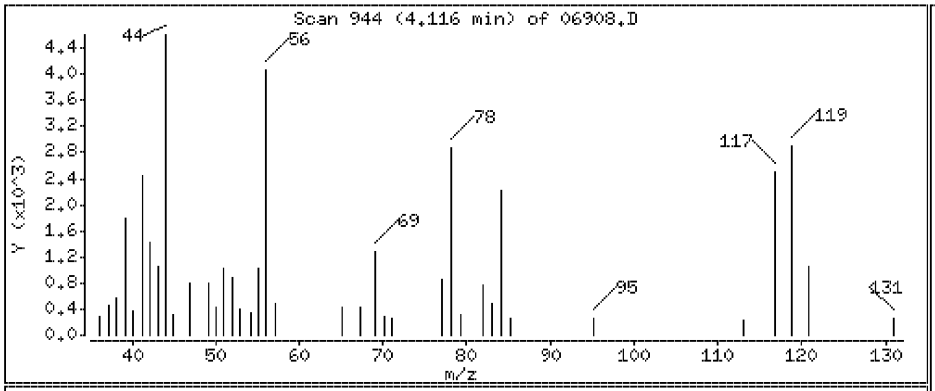
Operator: DR1

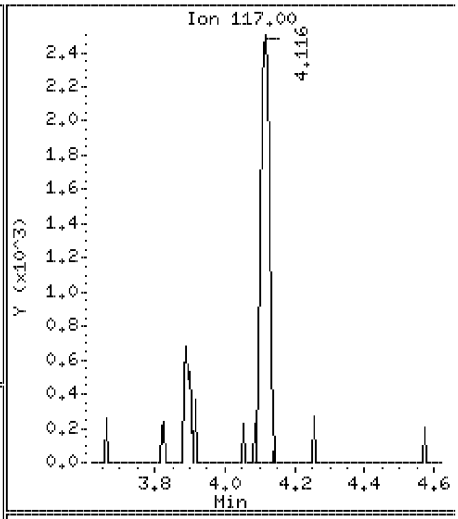
Column phase: J&W DB-5

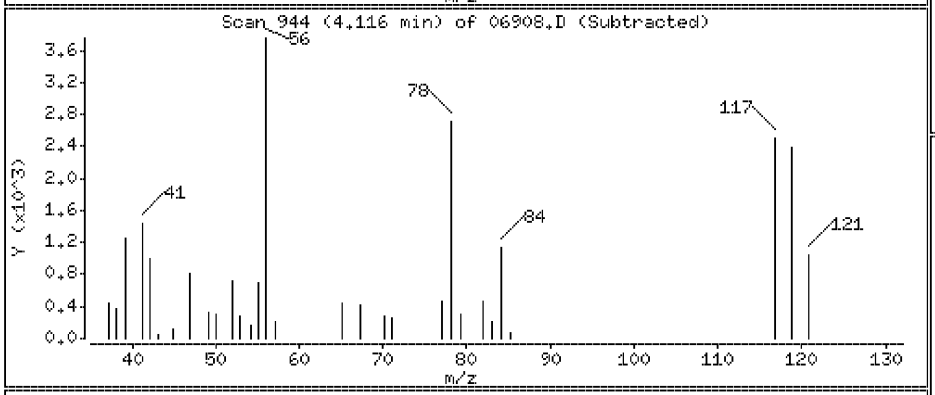
Column diameter: 0.32

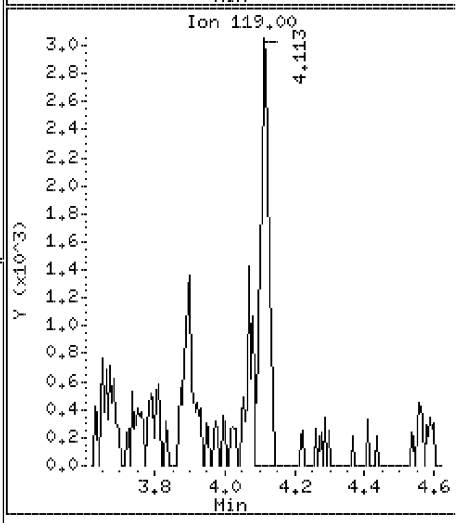
45 Carbon tetrachloride

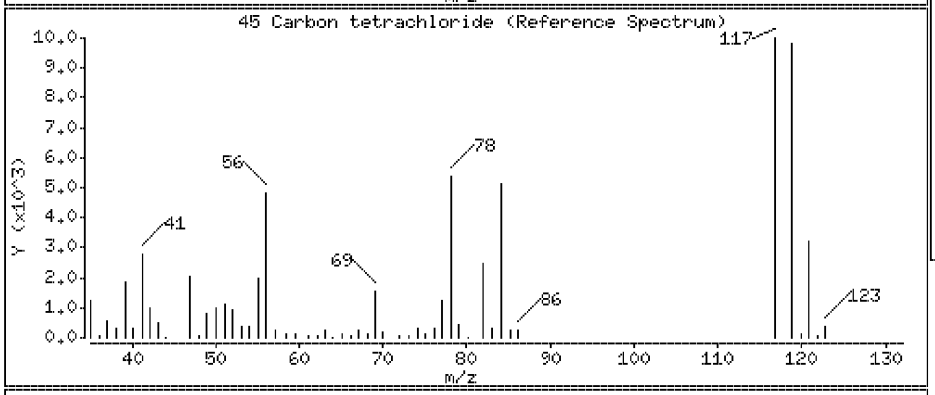
Concentration: 0.111 ppbv

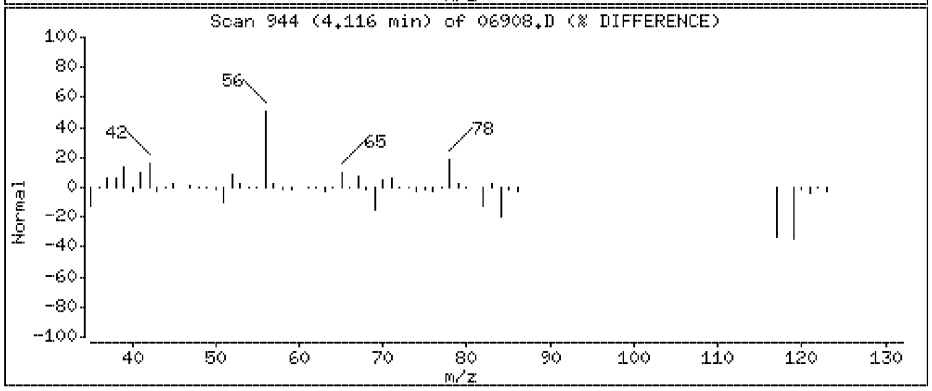












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

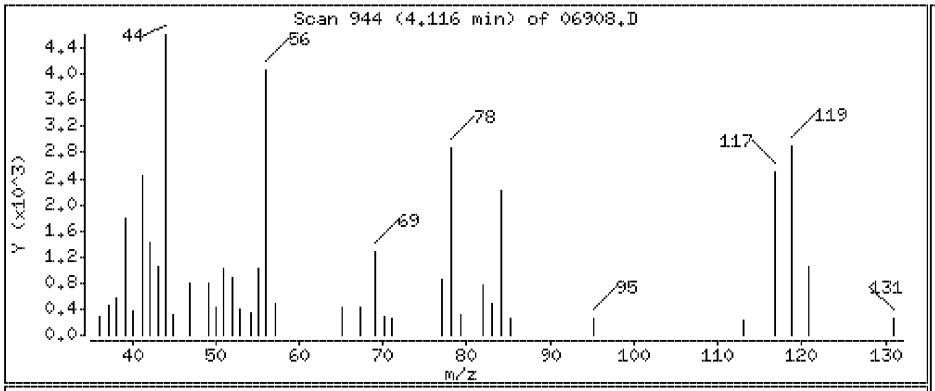
Operator: DR1

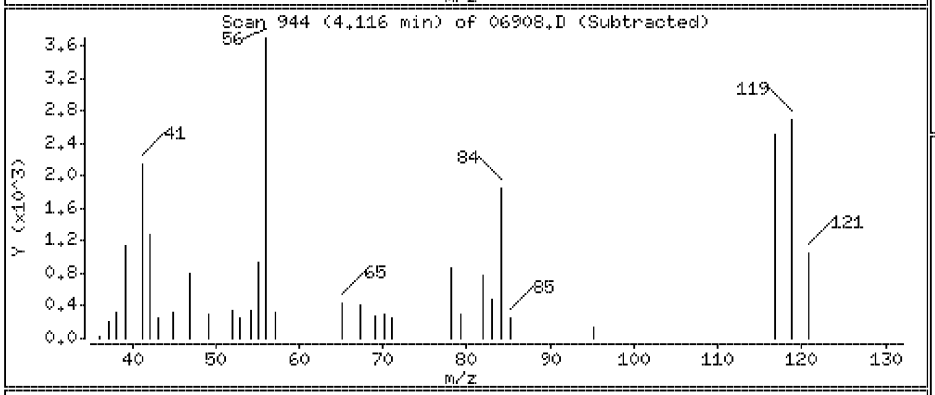
Column phase: J&W DB-5

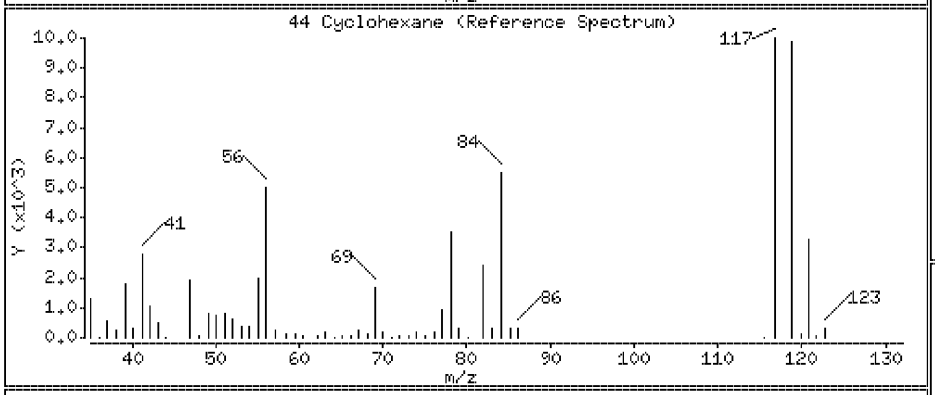
Column diameter: 0.32

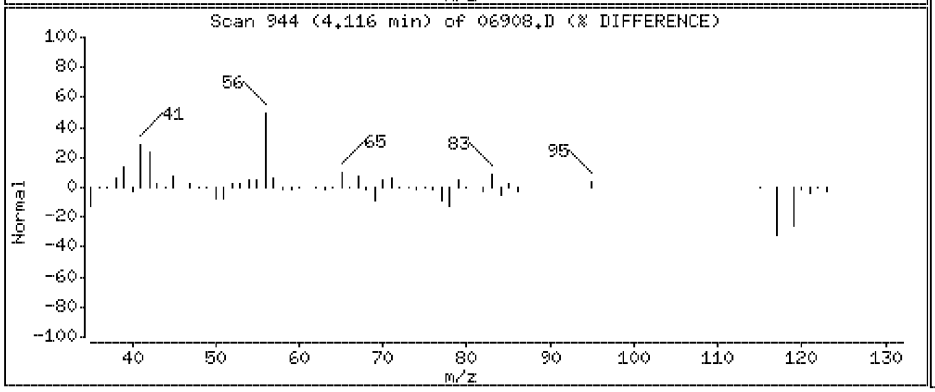
44 Cyclohexane

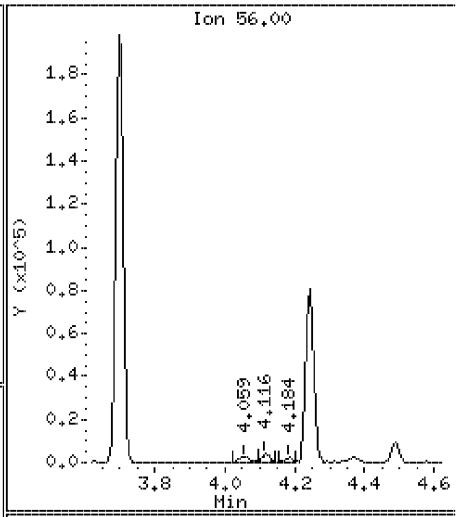
Concentration: 0.255 ppbv

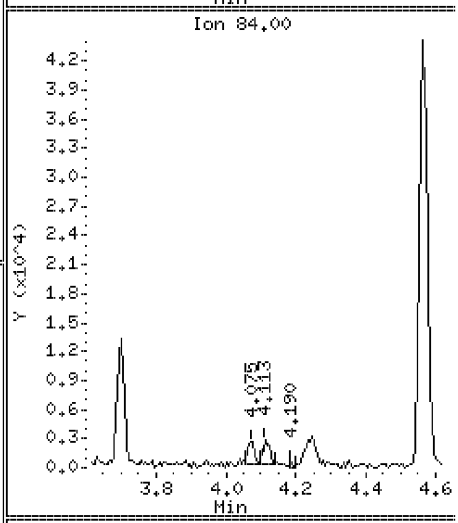


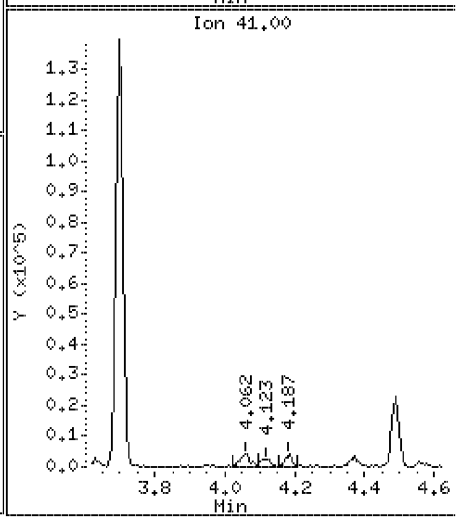












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

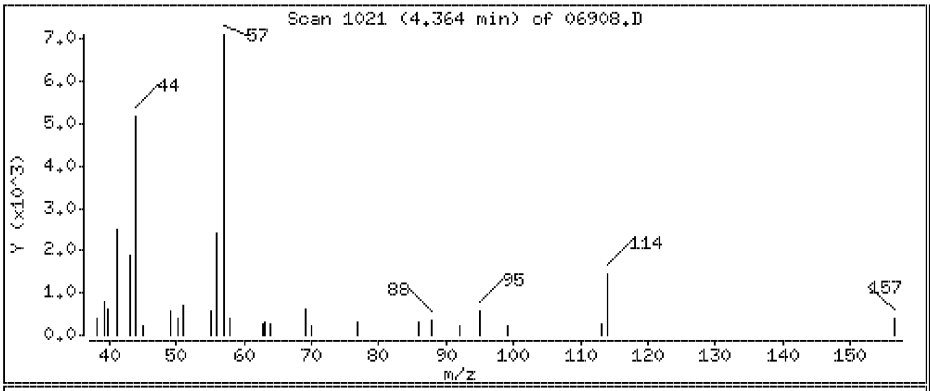
Operator: DR1

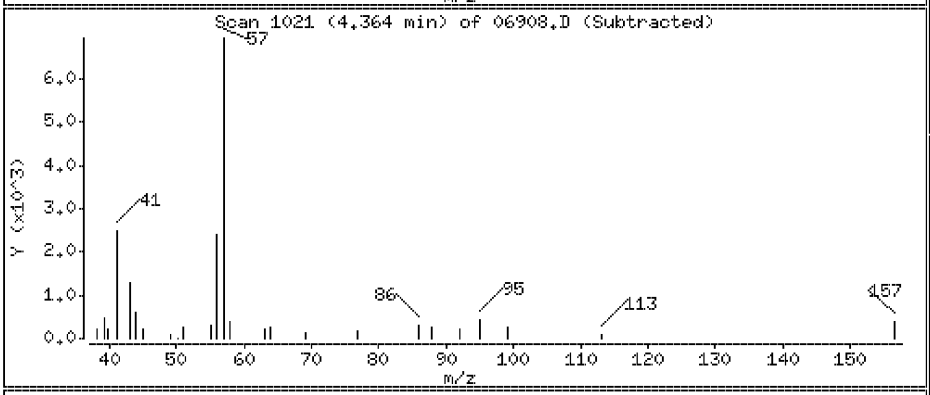
Column phase: J&W DB-5

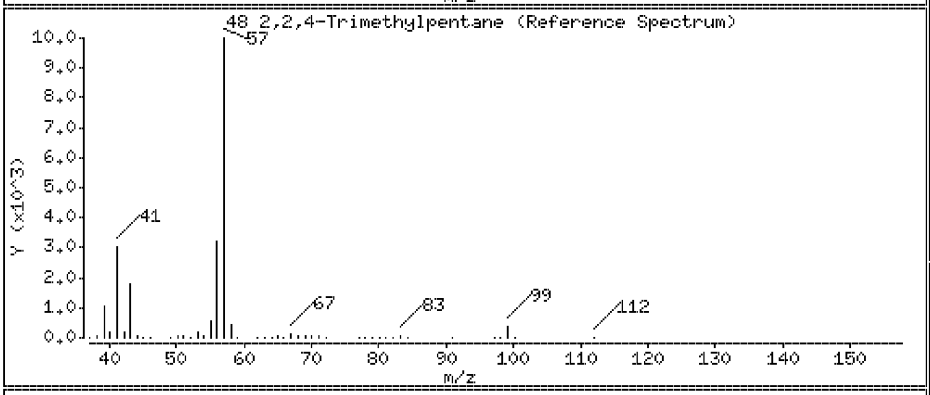
Column diameter: 0.32

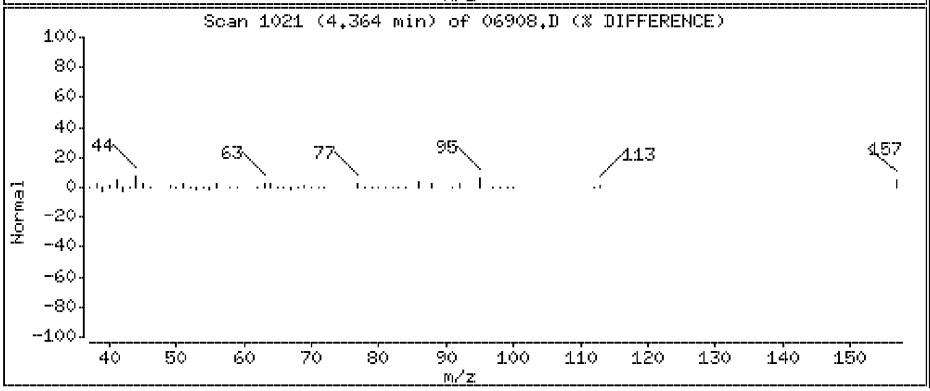
48 2,2,4-Trimethylpentane

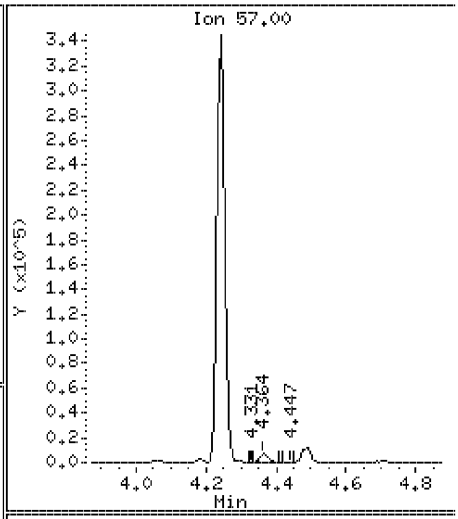
Concentration: 278 ppbv

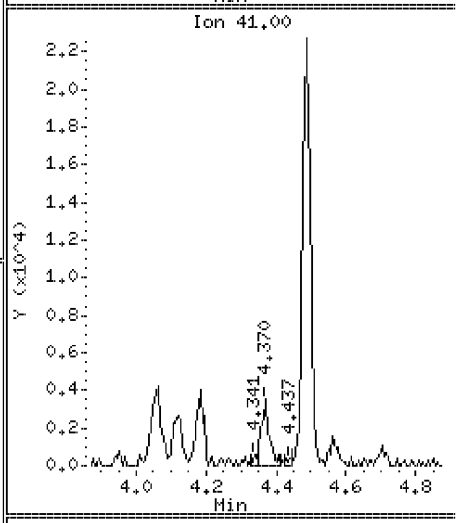


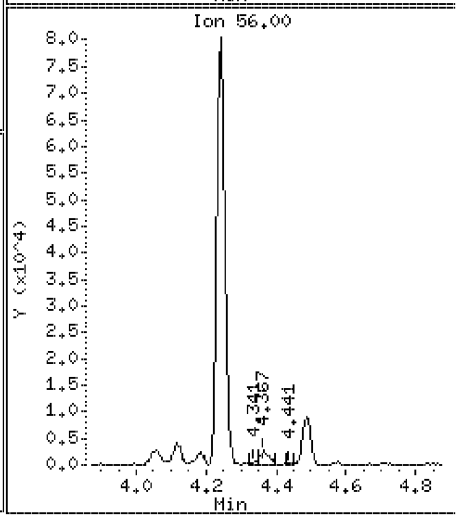












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

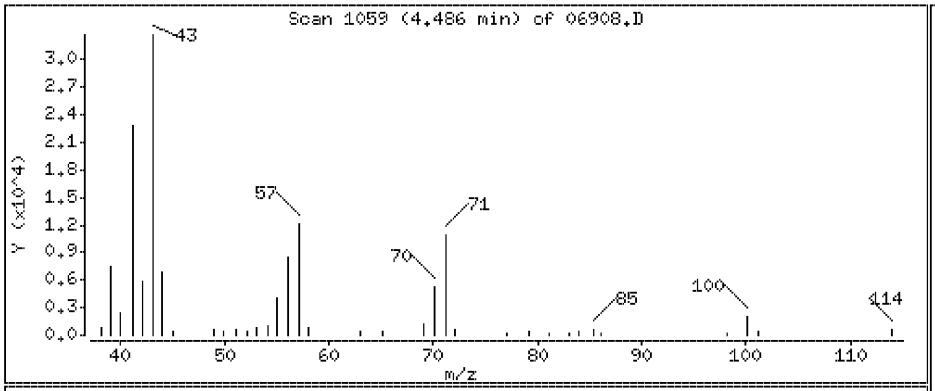
Operator: DR1

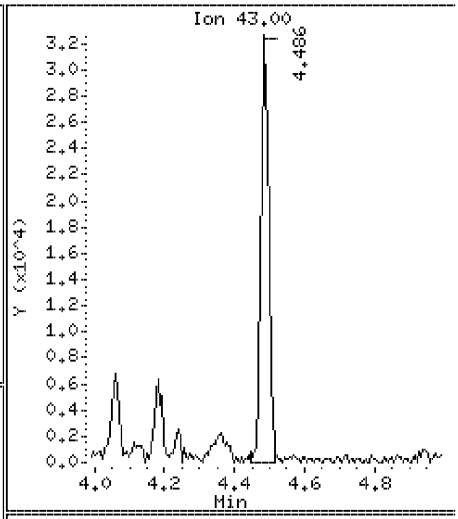
Column phase: J&W DB-5

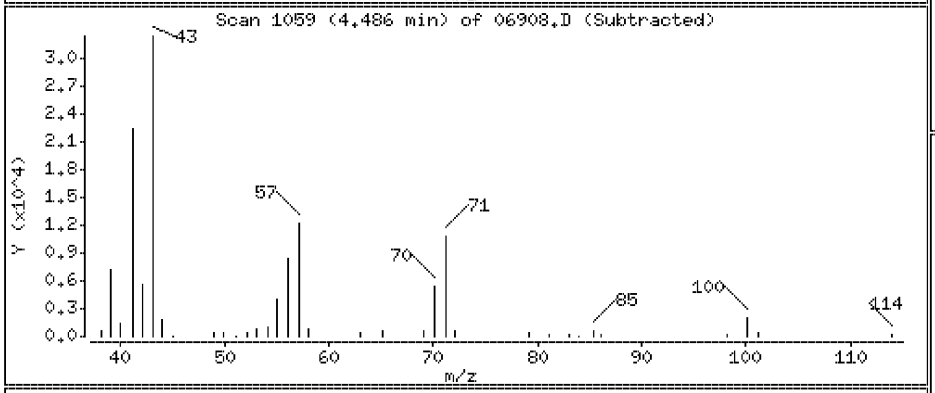
Column diameter: 0.32

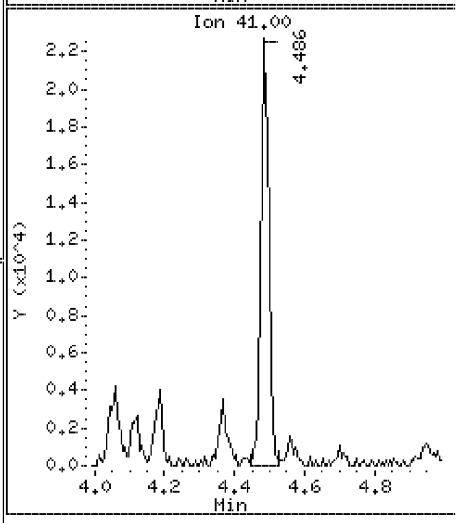
49 Heptane

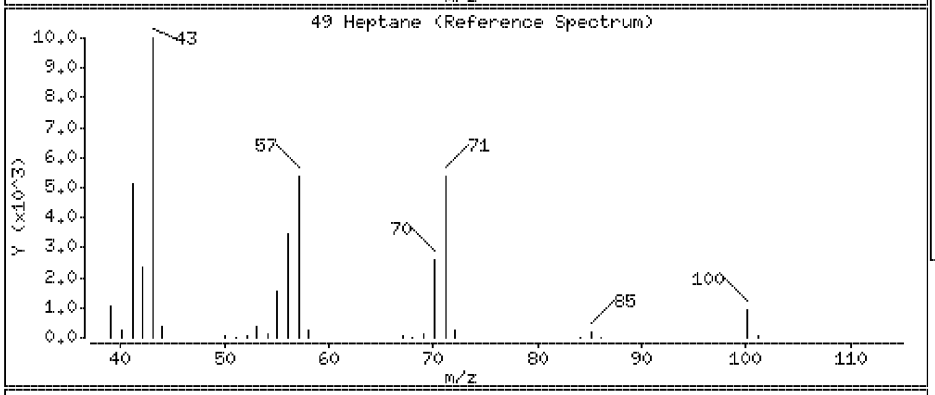
Concentration: 1.32 ppbv

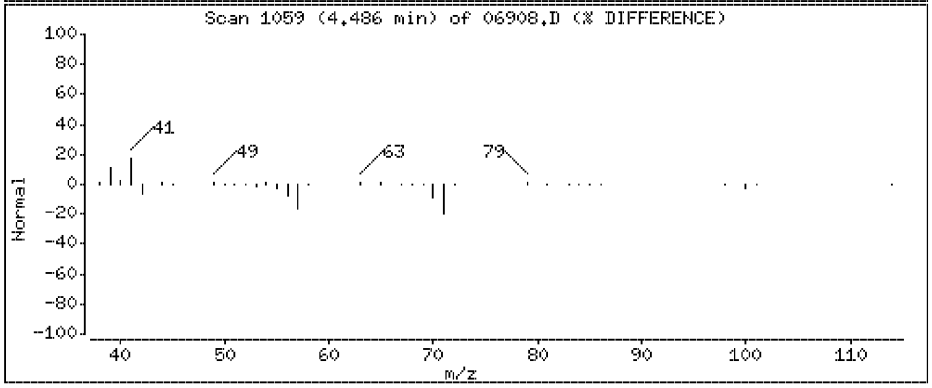












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

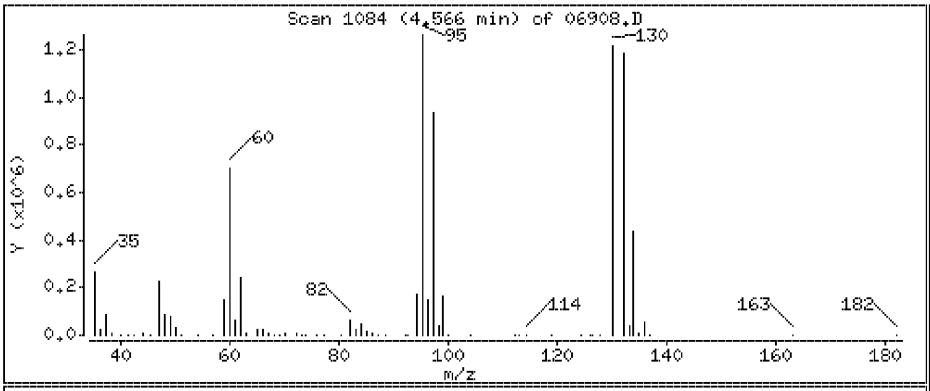
Operator: DR1

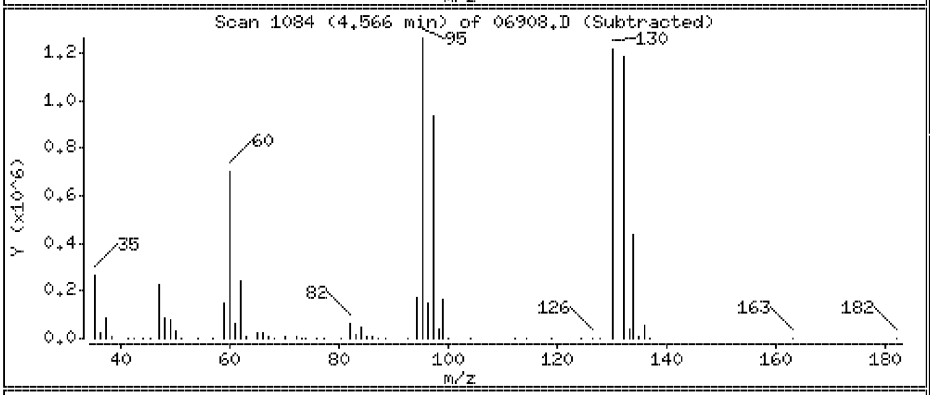
Column phase: J&W DB-5

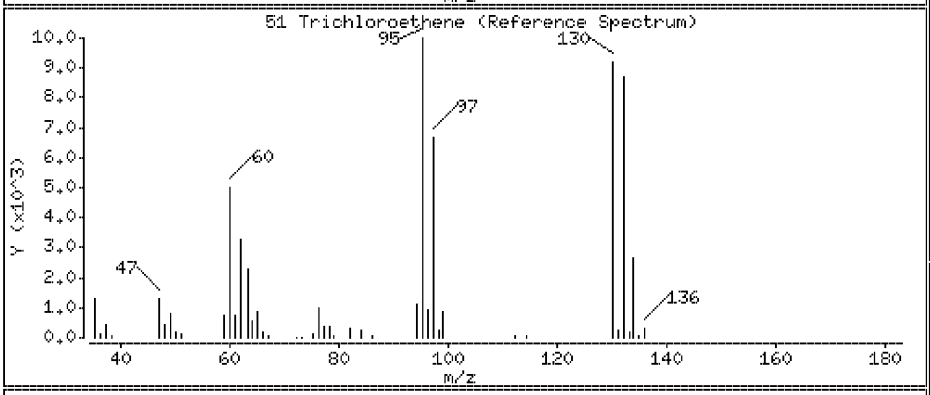
Column diameter: 0.32

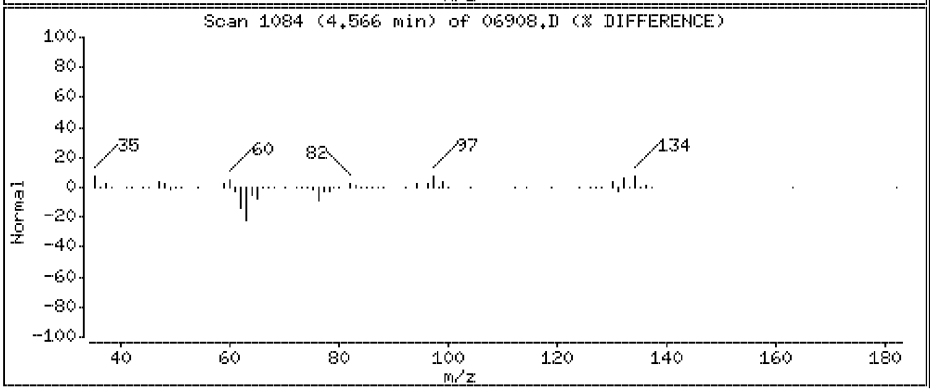
51 Trichloroethene

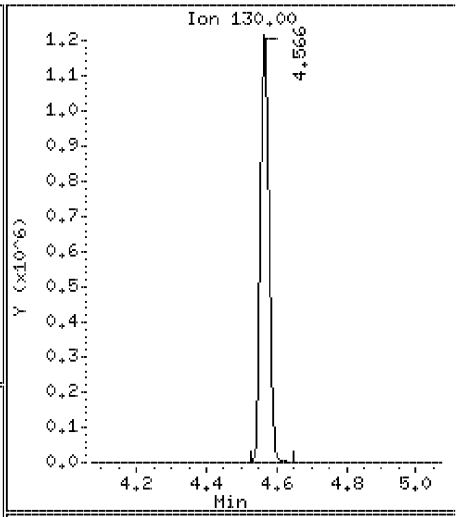
Concentration: 80.6 ppbv

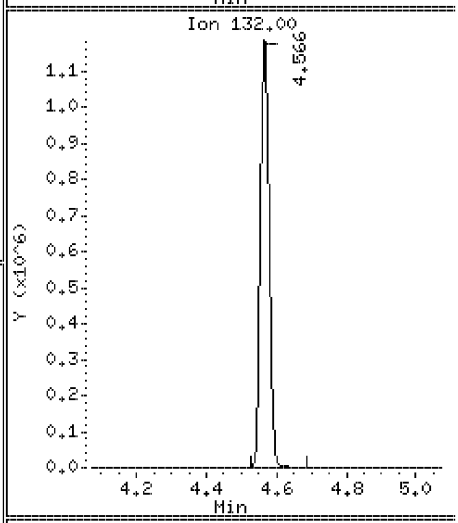


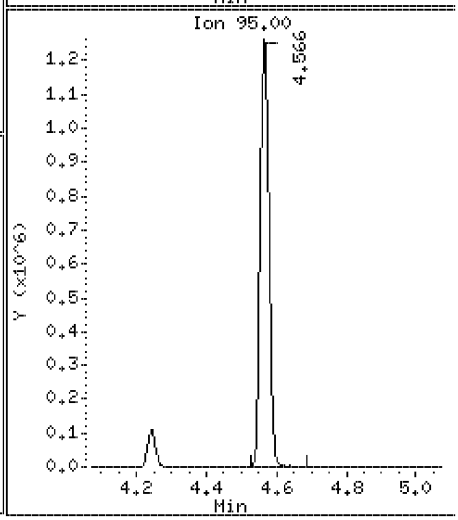












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

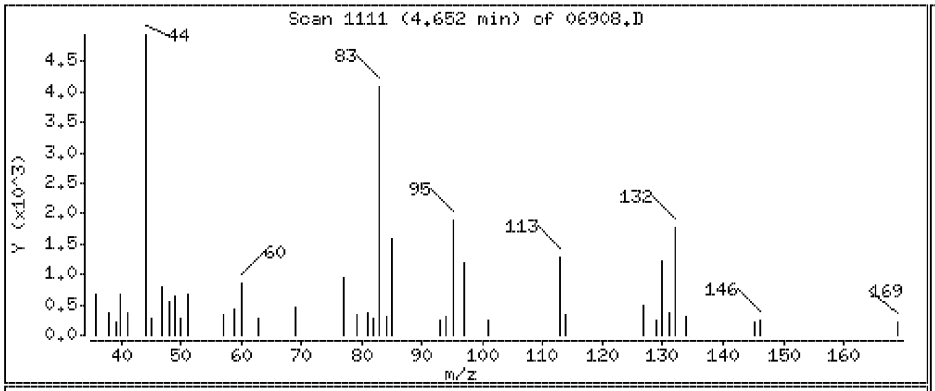
Operator: DR1

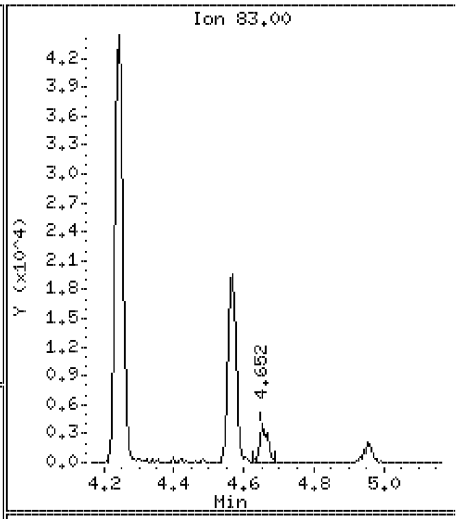
Column phase: J&W DB-5

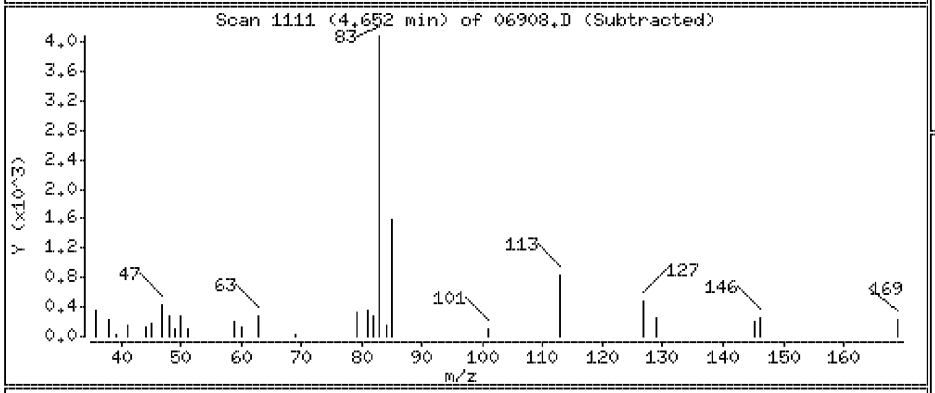
Column diameter: 0.32

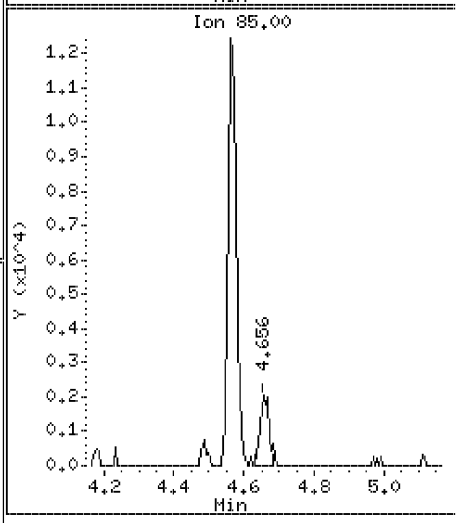
53 Bromodichloromethane

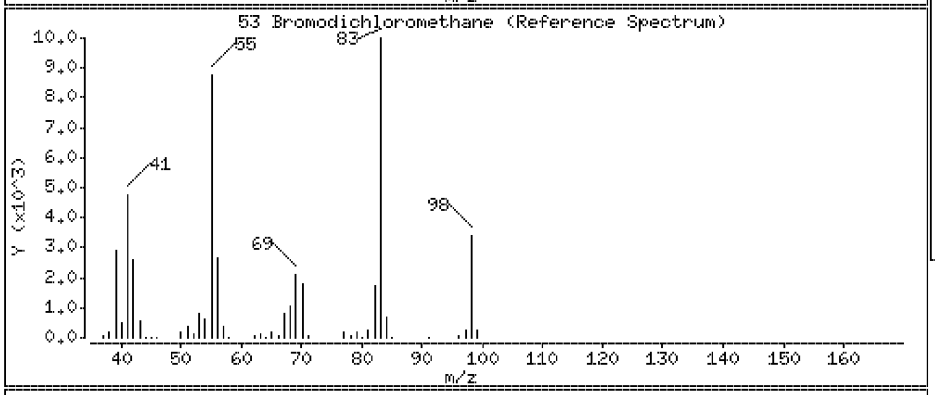
Concentration: 0.131 ppbv

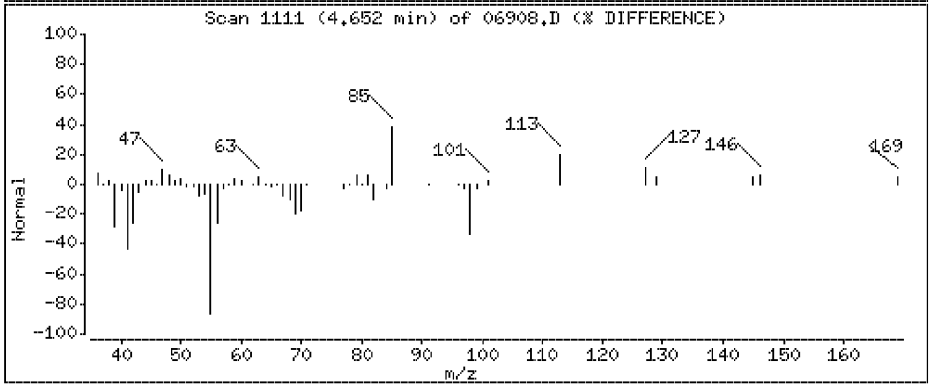












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

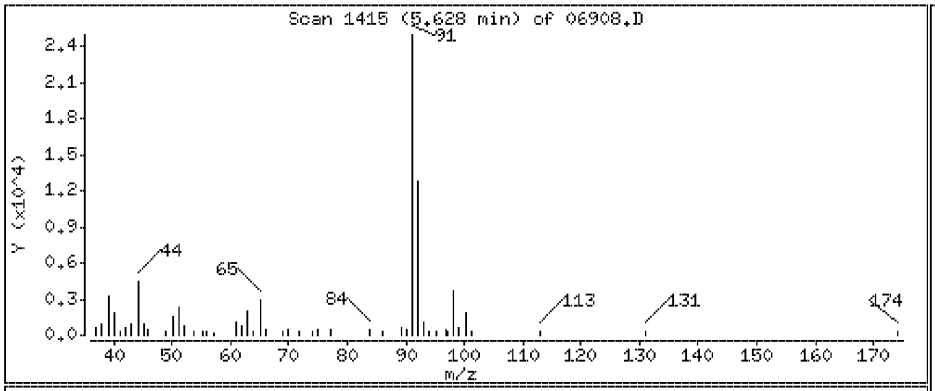
Operator: DR1

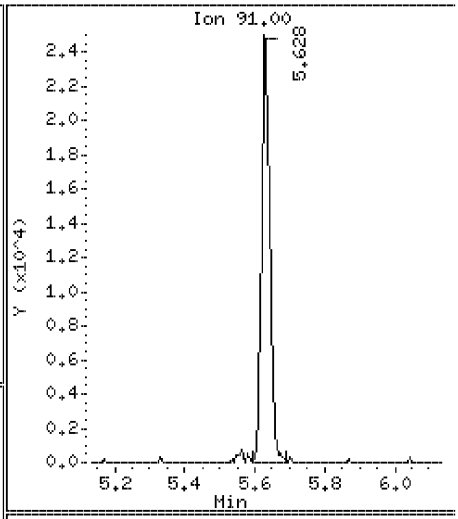
Column phase: J&W DB-5

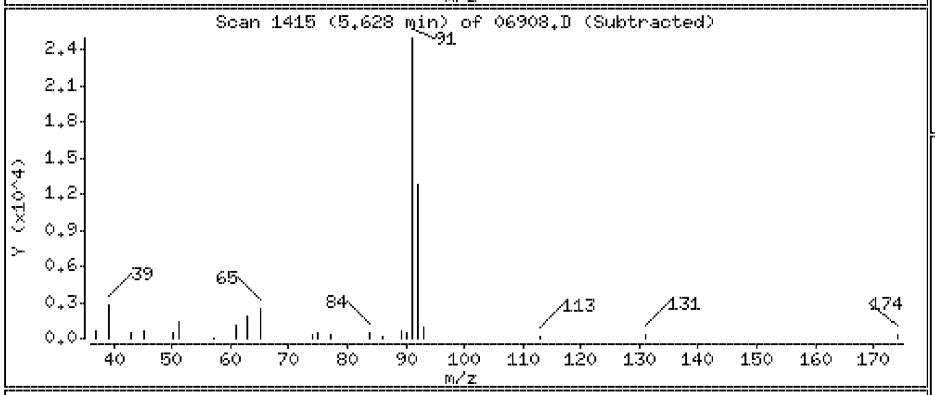
Column diameter: 0.32

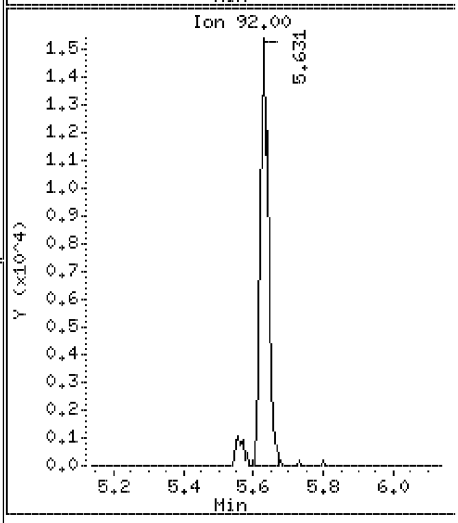
60 Toluene

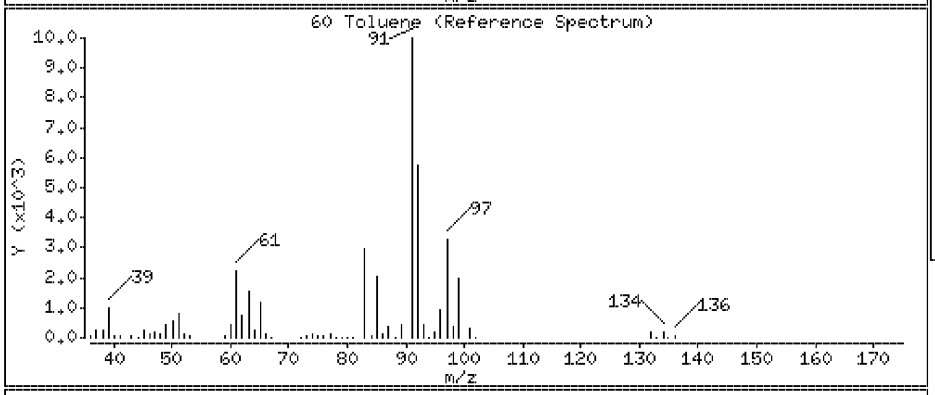
Concentration: 0.640 ppbv

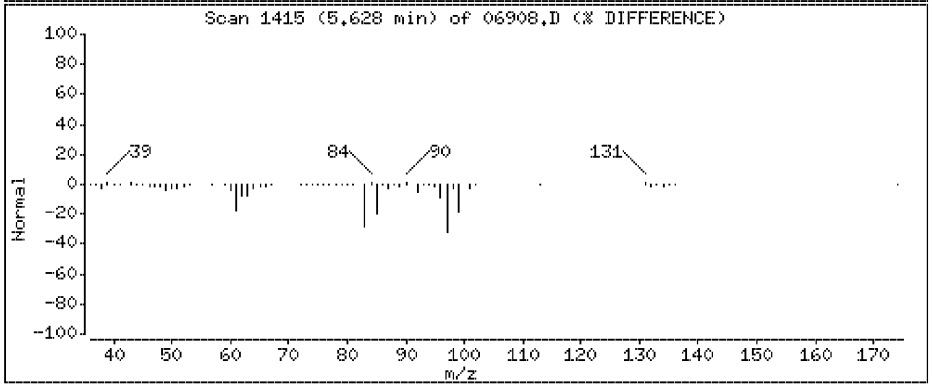












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

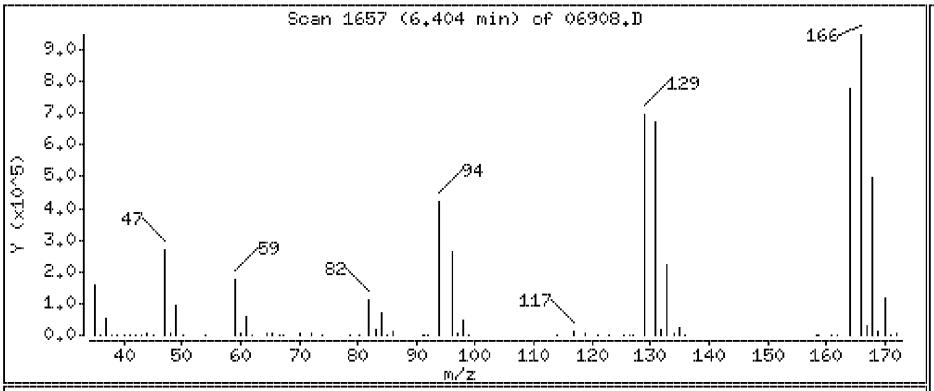
Operator: DR1

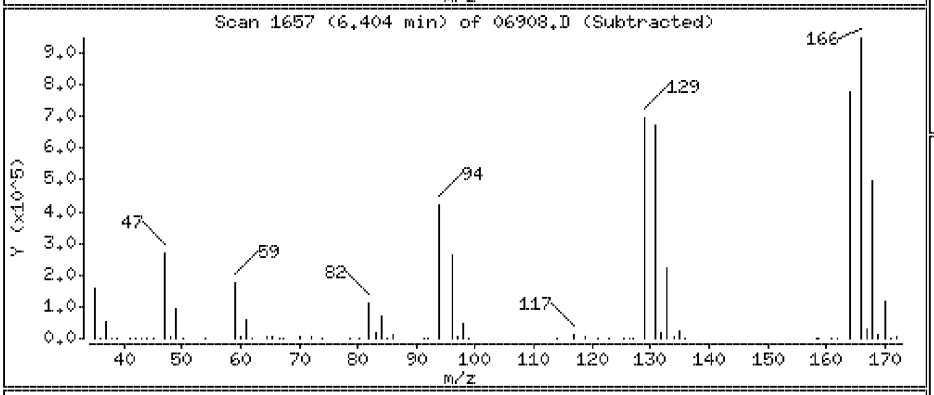
Column phase: J&W DB-5

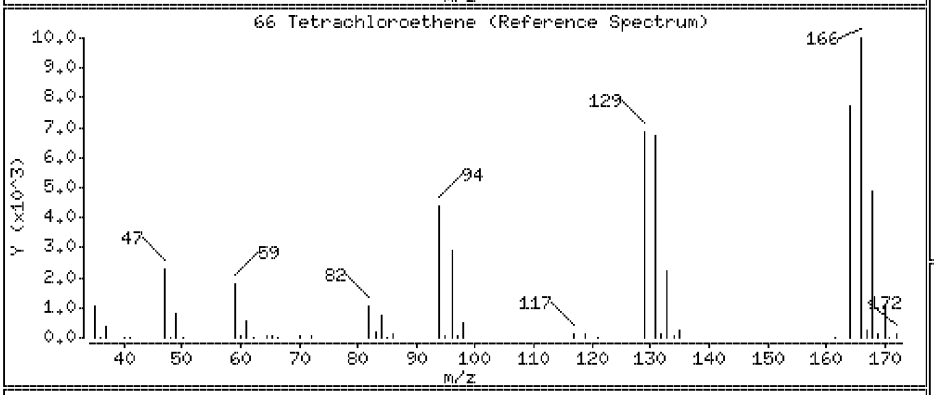
Column diameter: 0.32

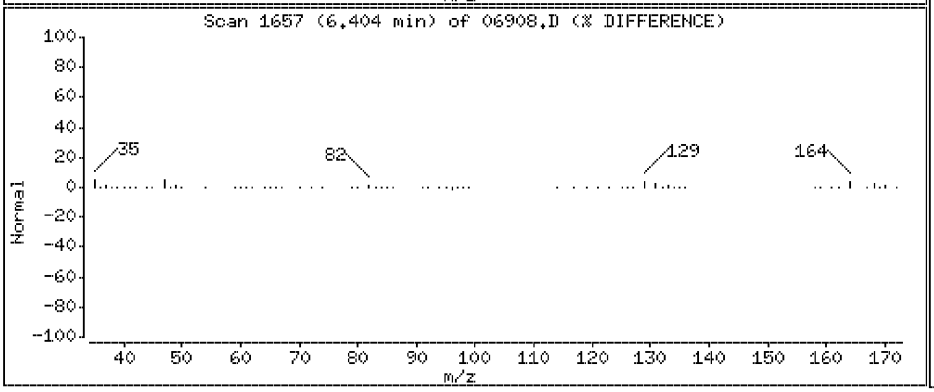
66 Tetrachloroethene

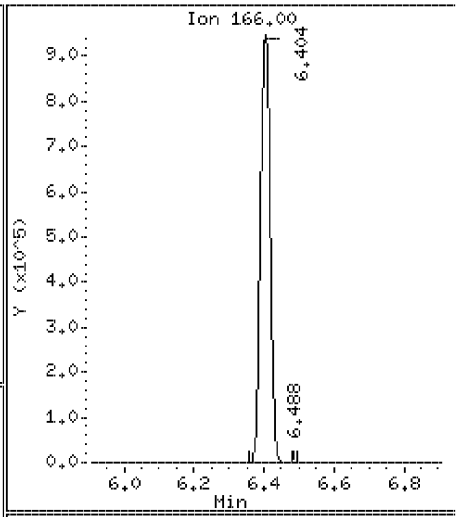
Concentration: 48.2 ppbv

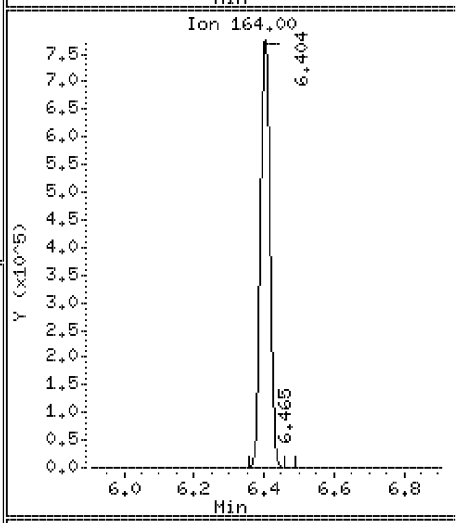


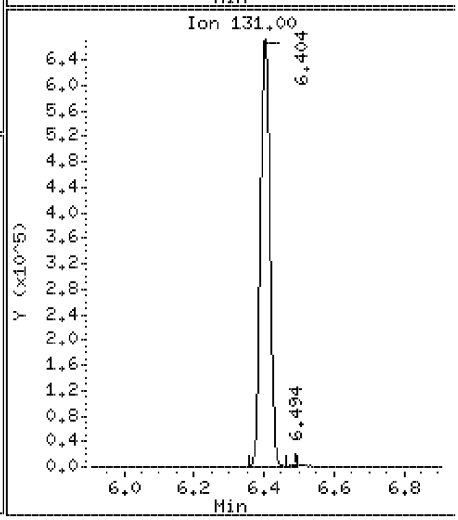












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

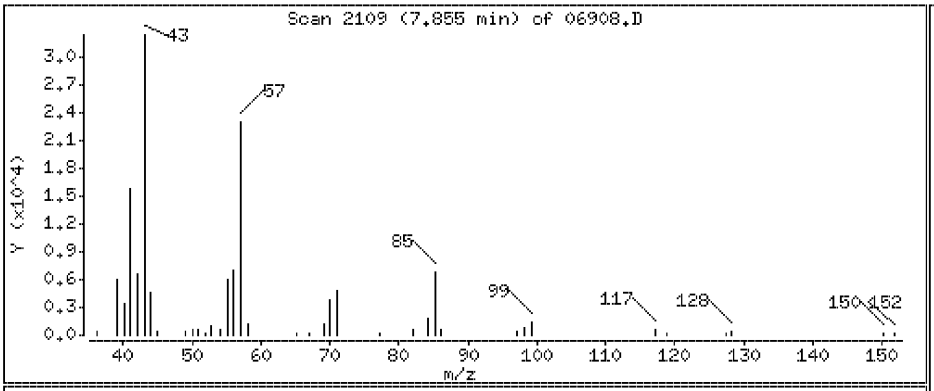
Operator: DR1

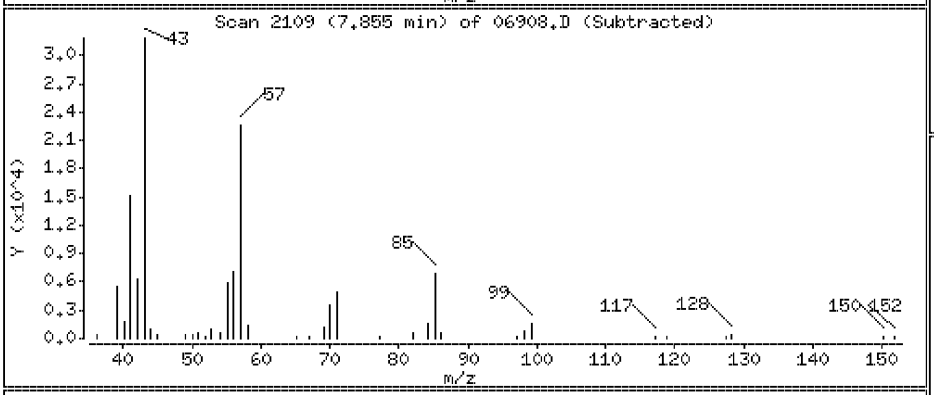
Column phase: J&W DB-5

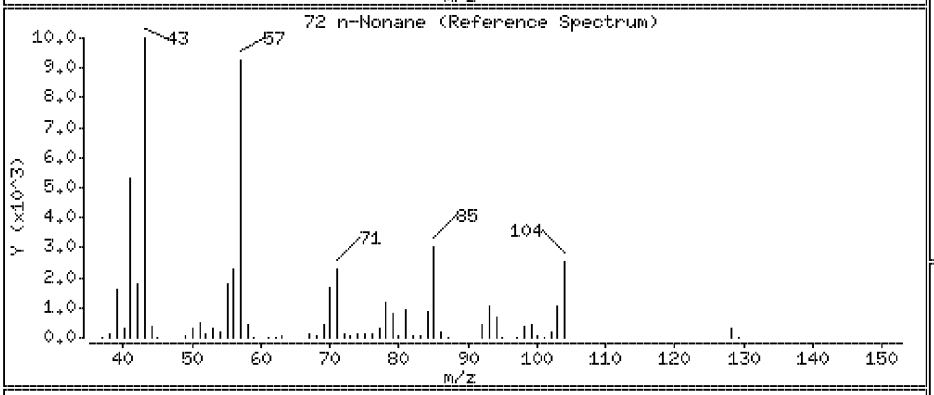
Column diameter: 0.32

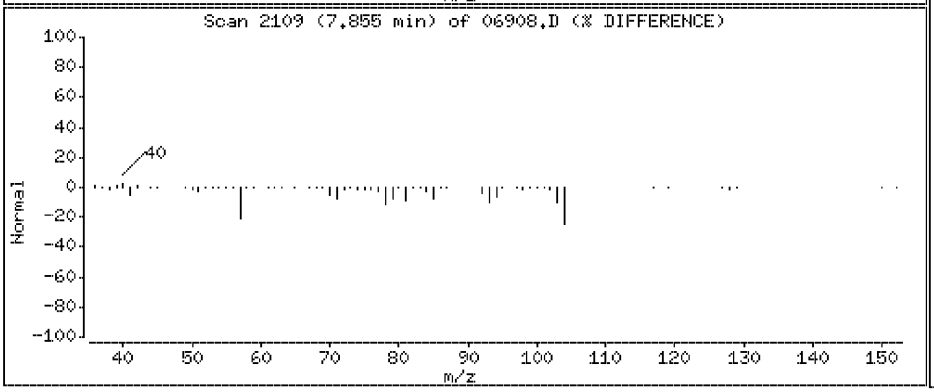
72 n-Nonane

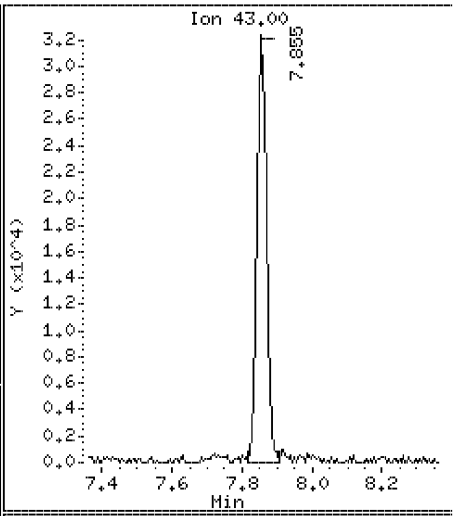
Concentration: 1.60 ppbv

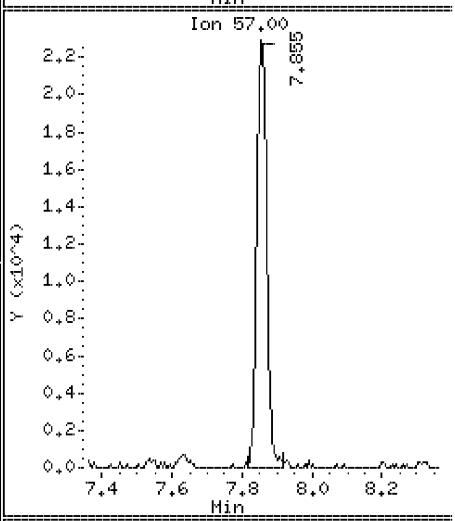


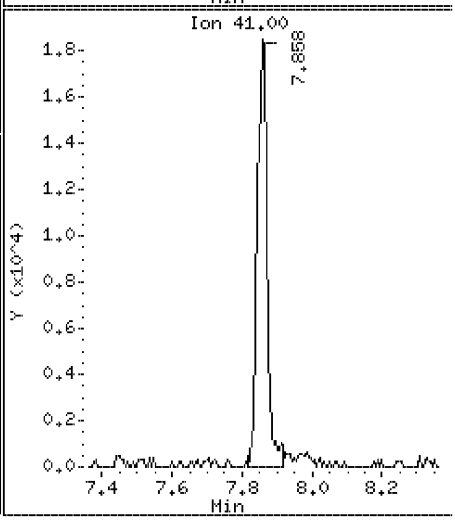












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

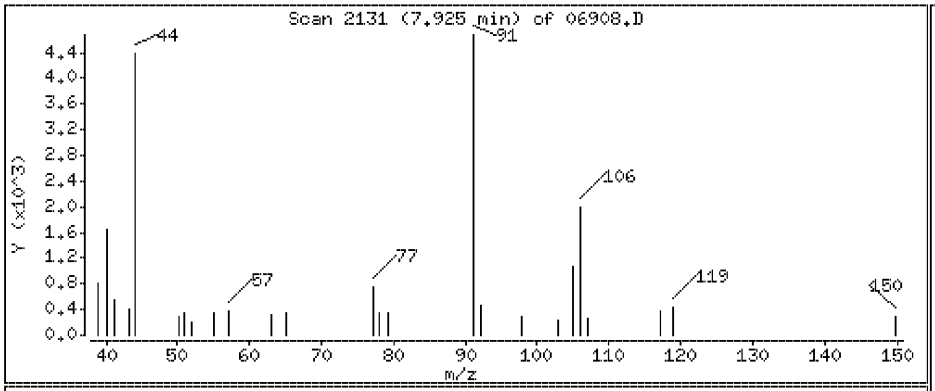
Operator: DR1

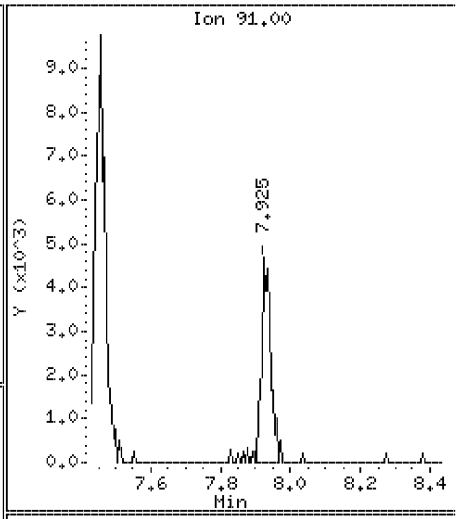
Column phase: J&W DB-5

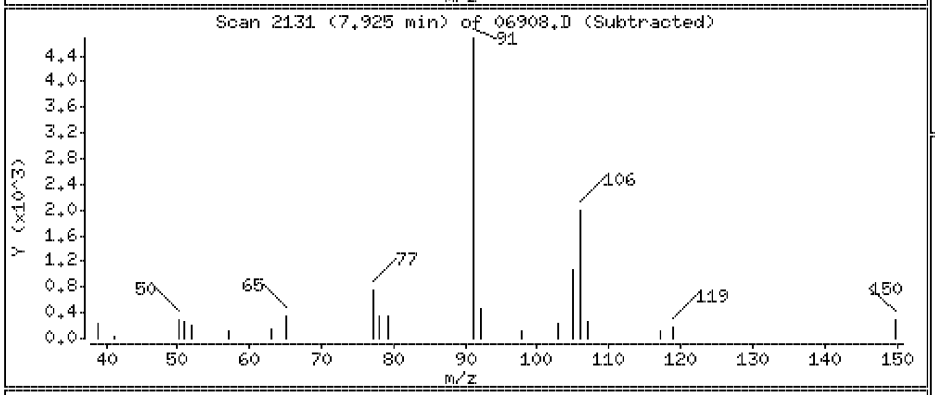
Column diameter: 0.32

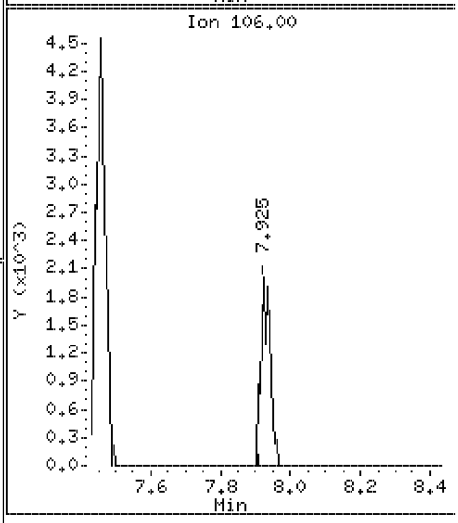
74 o-Xylene

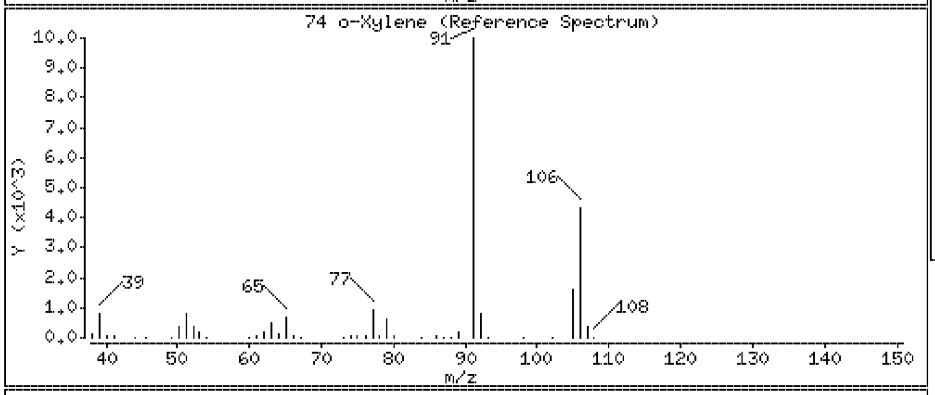
Concentration: 0.131 ppbv

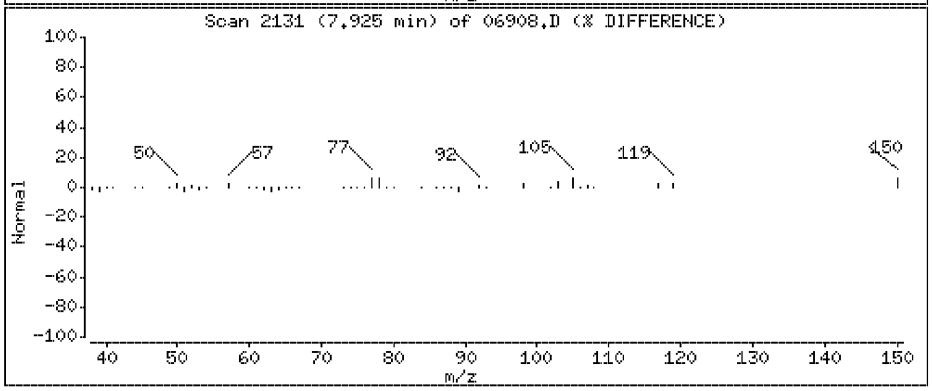












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

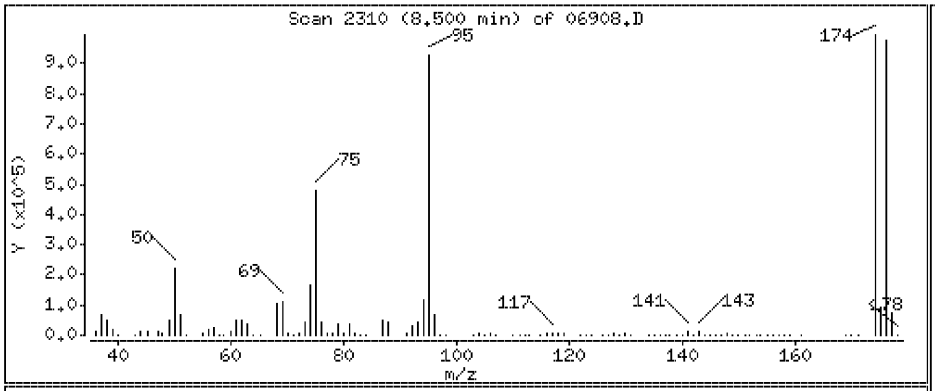
Operator: DR1

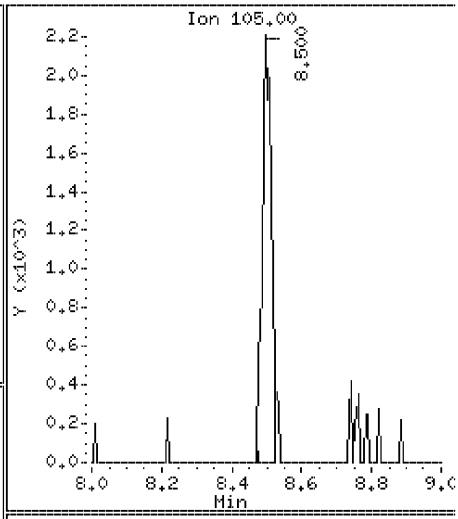
Column phase: J&W DB-5

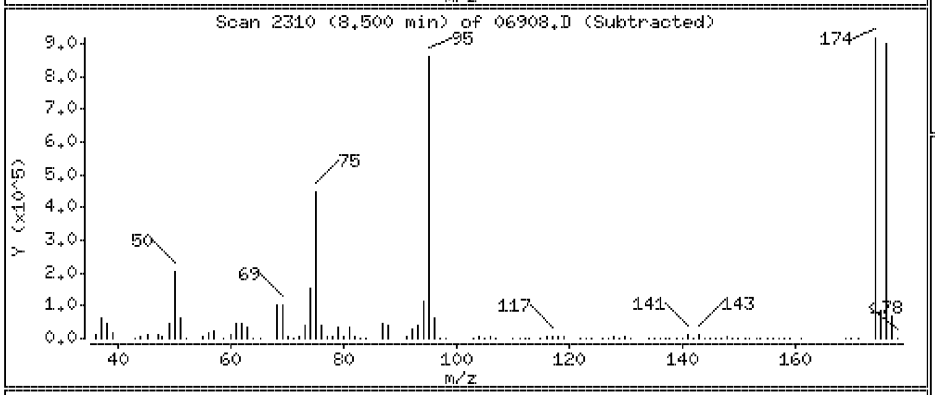
Column diameter: 0.32

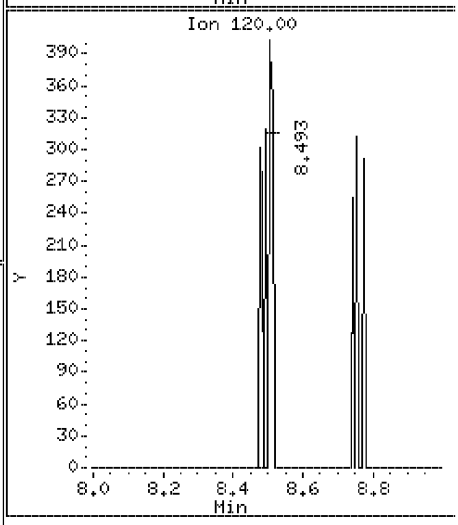
76 Isopropylbenzene

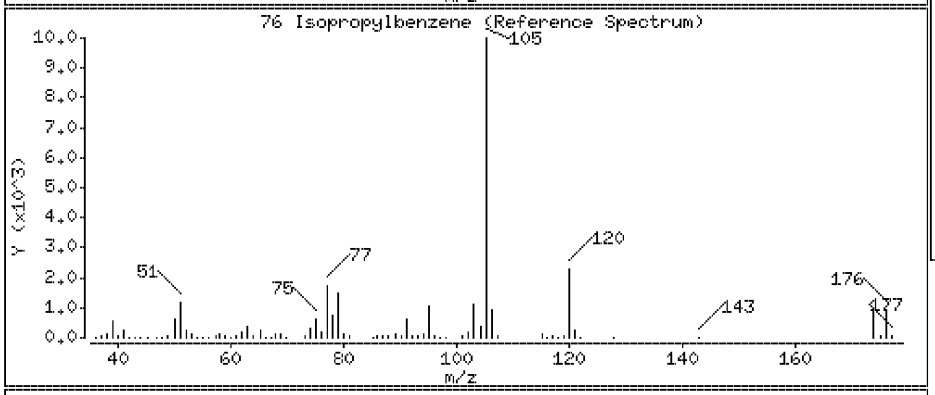
Concentration: 0.0487 ppbv

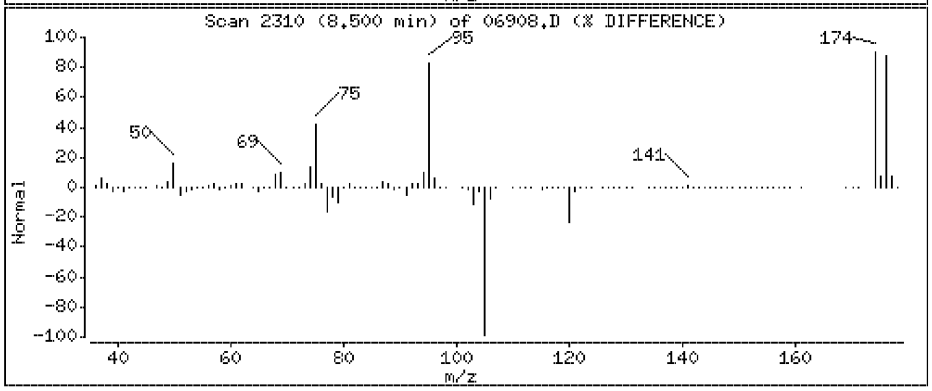












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

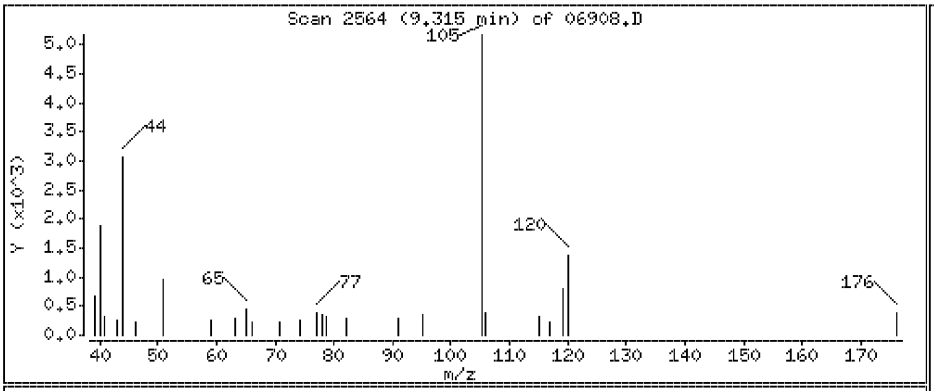
Operator: DR1

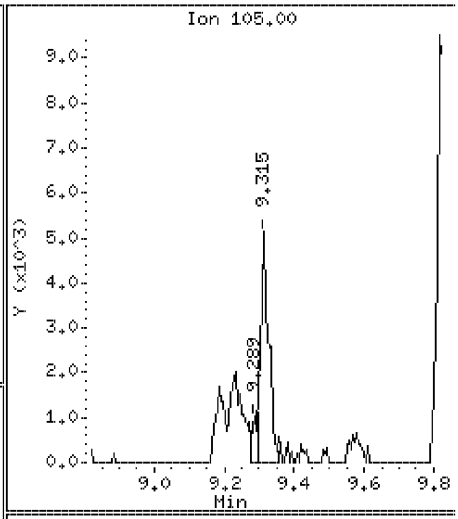
Column phase: J&W DB-5

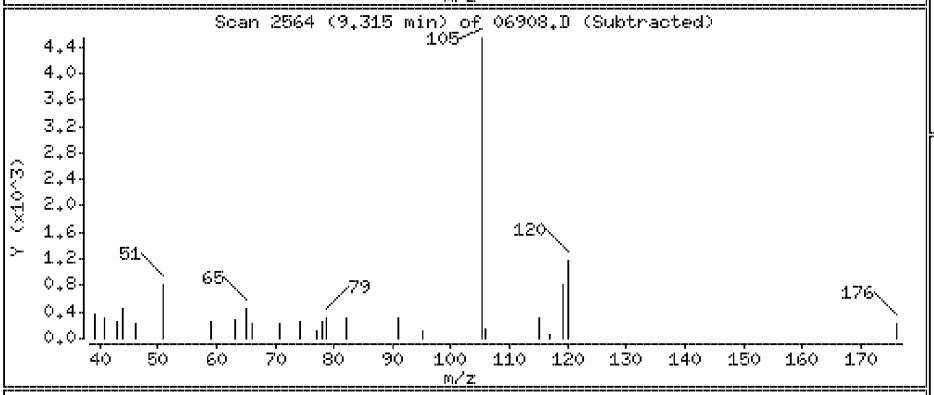
Column diameter: 0.32

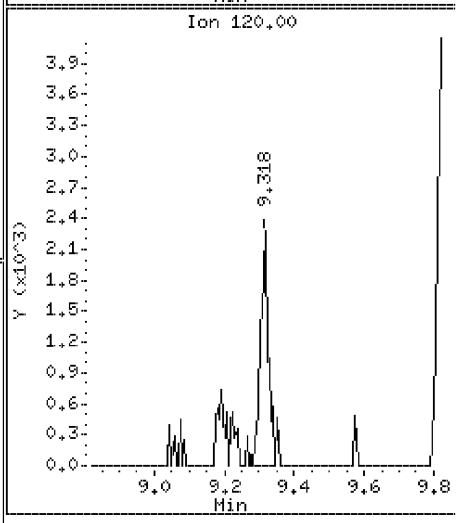
79 1,3,5-Trimethylbenzene

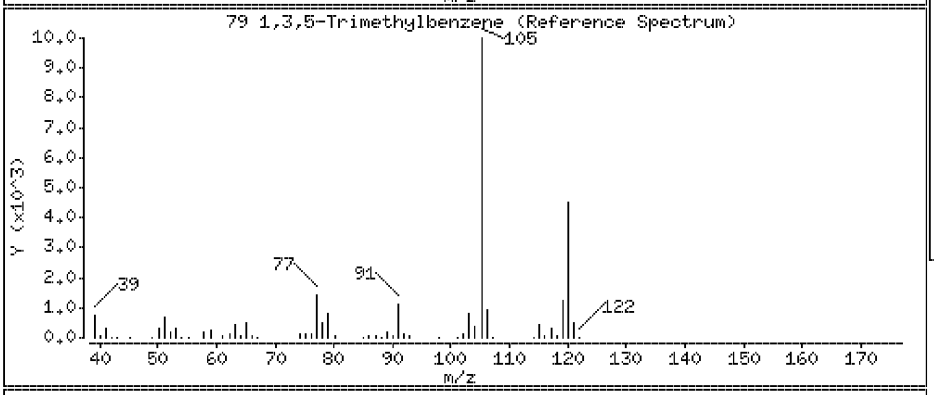
Concentration: 0.0632 ppbv

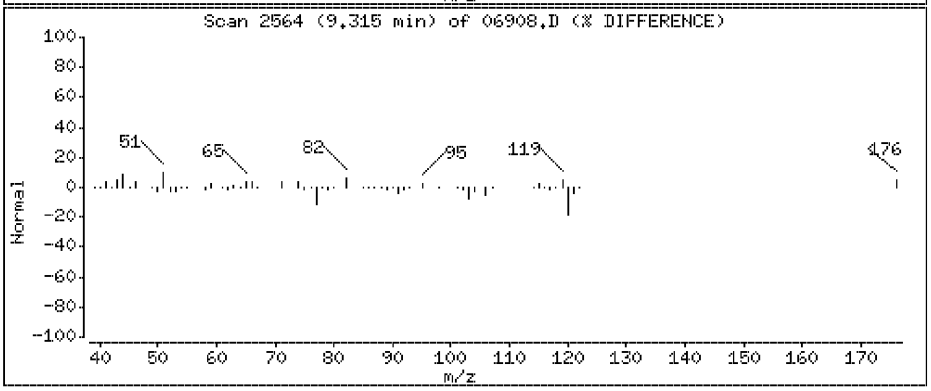












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

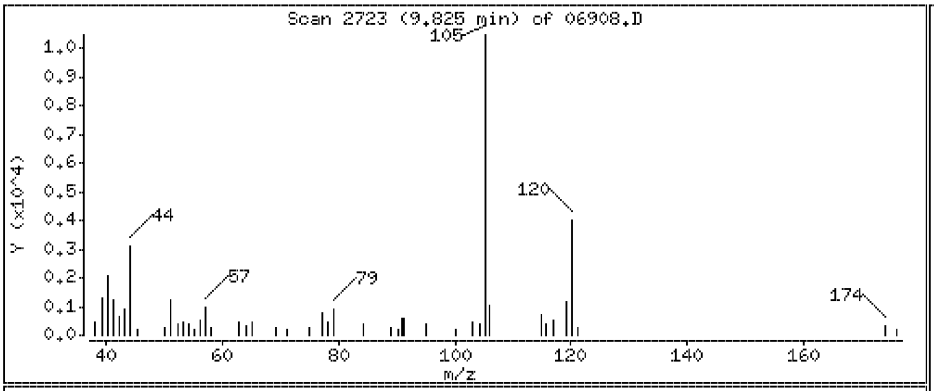
Operator: DR1

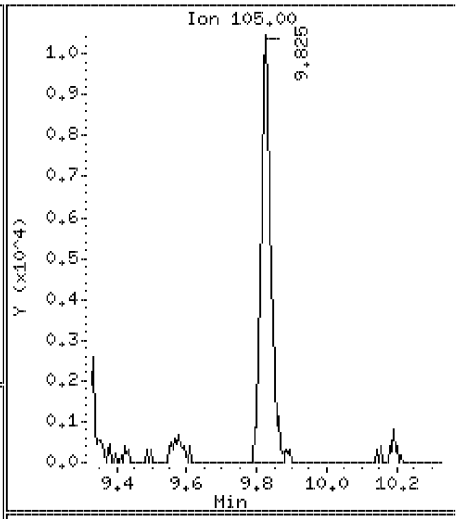
Column phase: J&W DB-5

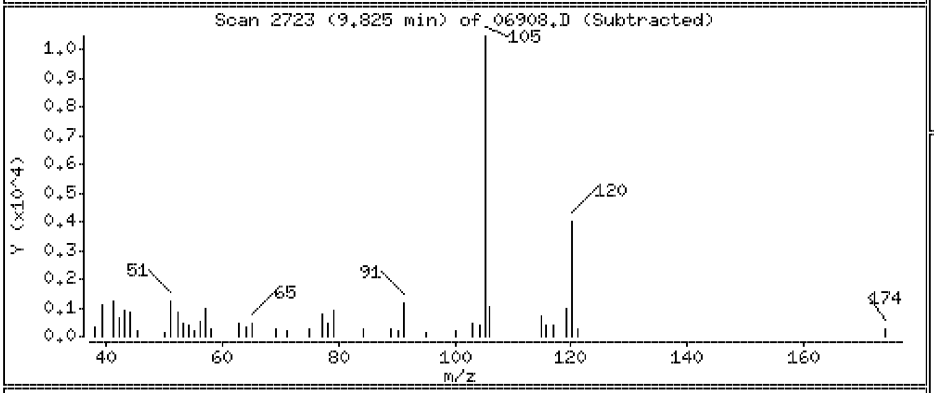
Column diameter: 0.32

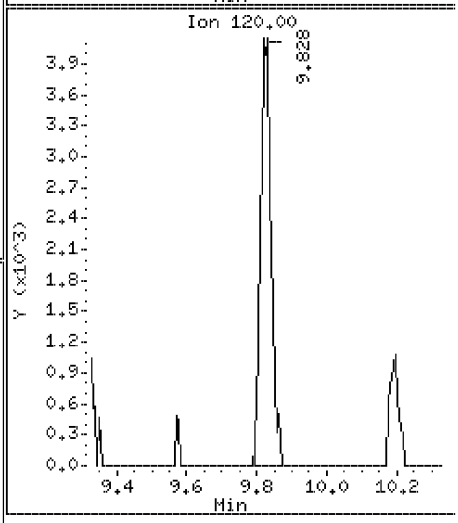
82 1,2,4-Trimethylbenzene

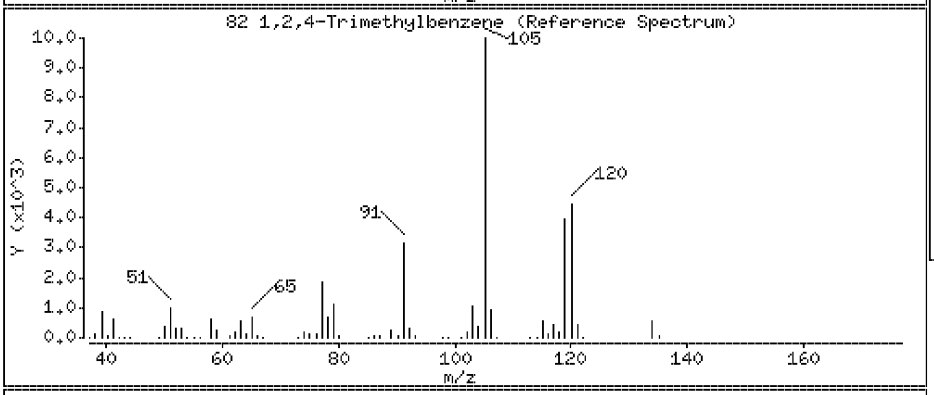
Concentration: 0.153 ppbv

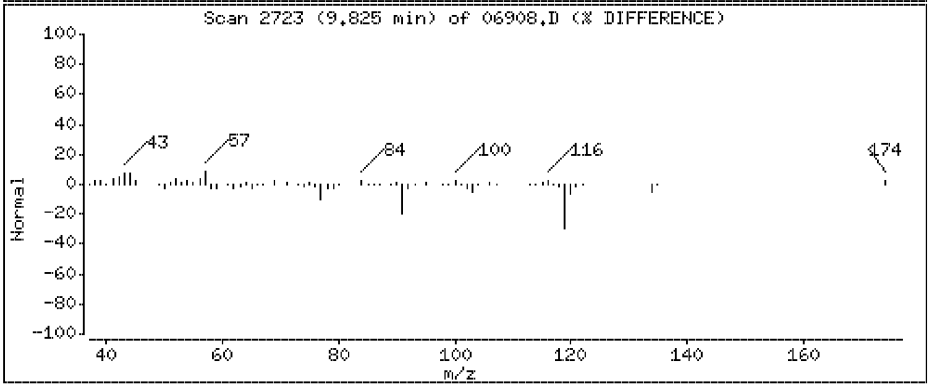












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06908.D

Date : 10-MAR-2017 18:21

Client ID:

Instrument: 10airD.i

Sample Info:

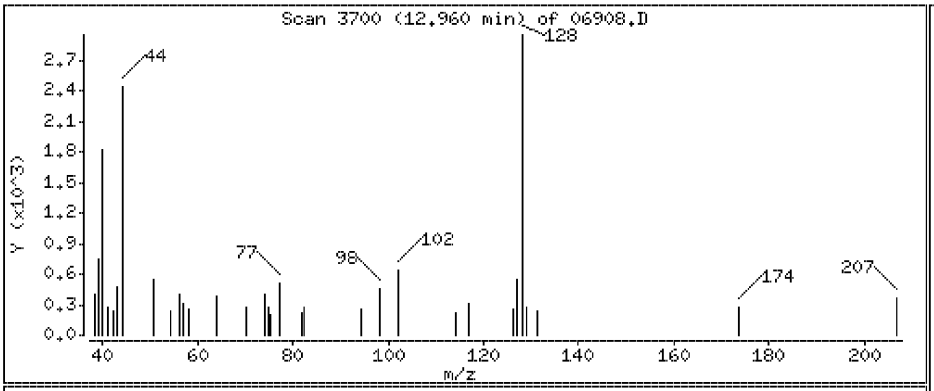
Operator: DR1

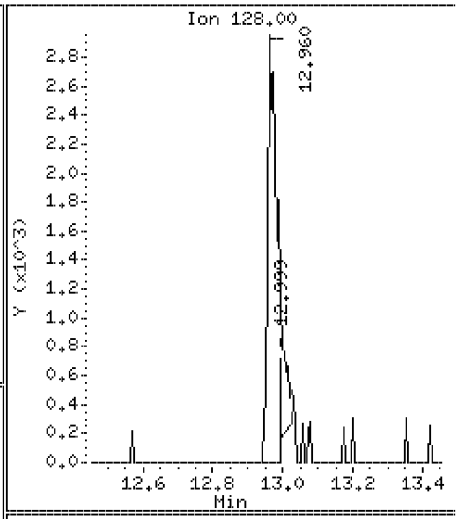
Column phase: J&W DB-5

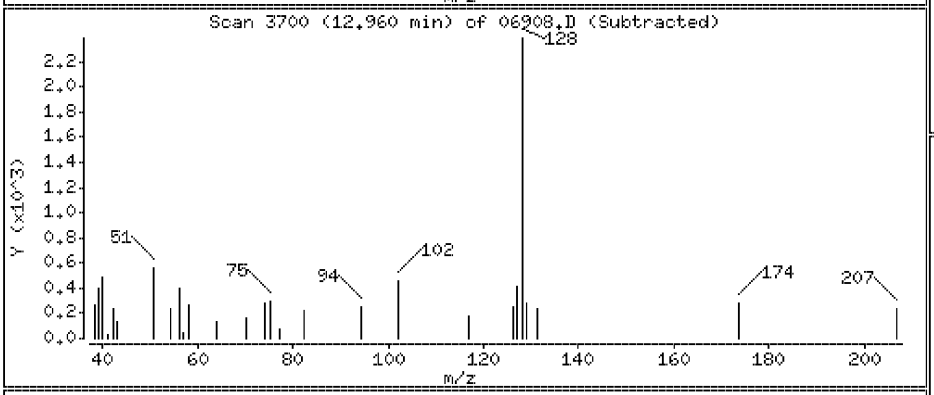
Column diameter: 0.32

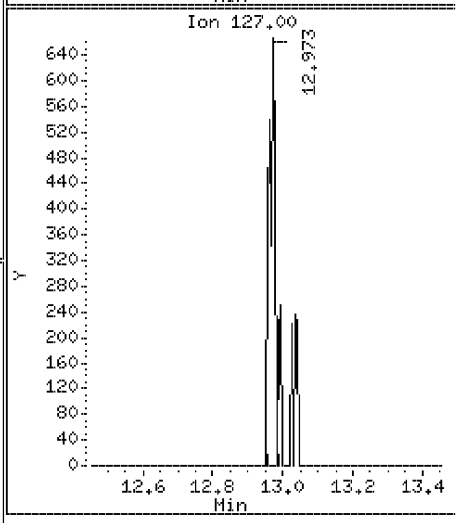
94 Naphthalene

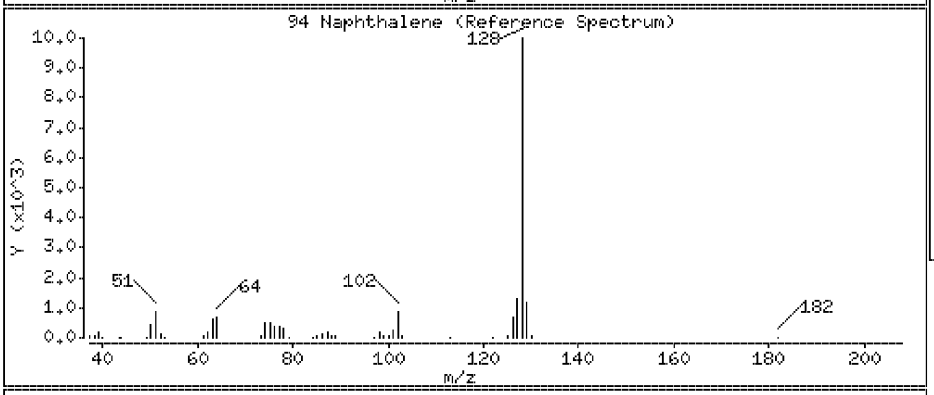
Concentration: 0.302 ppbv

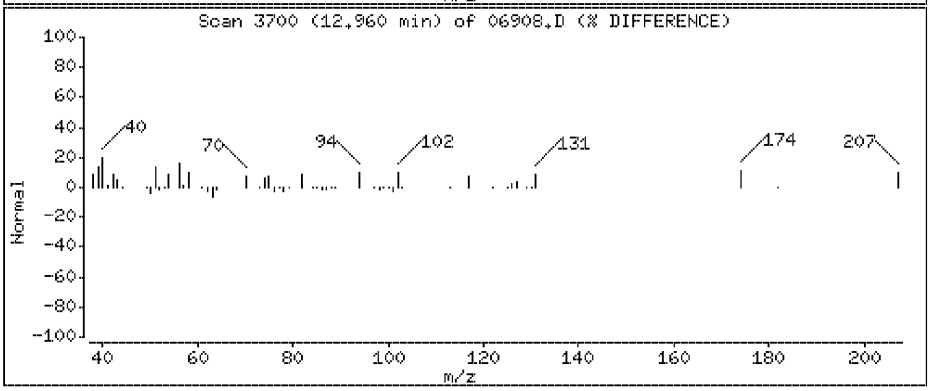












Data File: \\192.168.10.12\chem\10airD.i\031017.b/06908.d
Injection Date: 10-MAR-2017 18:21
Instrument: 10airD.i
Lab Sample ID: 10380372003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.d
Report Date: 13-Mar-2017 14:15

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07008.d
Lab Smp Id: 10380372003
Inj Date : 11-MAR-2017 15:07
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 8
Dil Factor: 23.45000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	23.450	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						
7	Chloromethane	50	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	2.649	2.666	(0.625)	36846	0.18004	4.22	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
22	Freon 113	101	2.820	2.848	(0.665)	3322	0.05920	1.39	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.d
Report Date: 13-Mar-2017 14:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	2.864	2.897	(0.675)	179967	5.42653	127	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.291	(0.771)	1503367	9.10021	9.10	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	3.346	3.372	(0.789)	21321	0.59603	14.0(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	37 Ethyl Acetate	43	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	45 Carbon tetrachloride	117	Compound Not Detected.						
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.267	(1.000)	3111816	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	4.485	4.507	(1.057)	3061	0.05726	1.34	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	4.565	4.591	(1.076)	125354	3.33487	78.2	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						(D)
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.579	(1.311)	2920115	9.36504	9.37	
	60 Toluene	91	Compound Not Detected.						(D)
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.404	6.417	(0.911)	107838	2.16727	50.8	
*	67 Chlorobenzene - d5	117	7.030	7.042	(1.000)	2250717	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.315	7.325	(1.041)	2939	0.02976	0.698(a)	
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	7.938	7.938	(1.129)	3517	0.04320	1.01(a)	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.d
Report Date: 13-Mar-2017 14:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	9.318	9.321	(1.325)	6645	0.04453	1.04(a)	
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.825	9.834	(1.398)	15131	0.08420	1.97	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.203	(1.450)	1342084	9.73240	9.73	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.d
Report Date: 13-Mar-2017 14:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07008.d
Lab Smp Id: 10380372003
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 11-MAR-2017
Calibration Time: 10:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

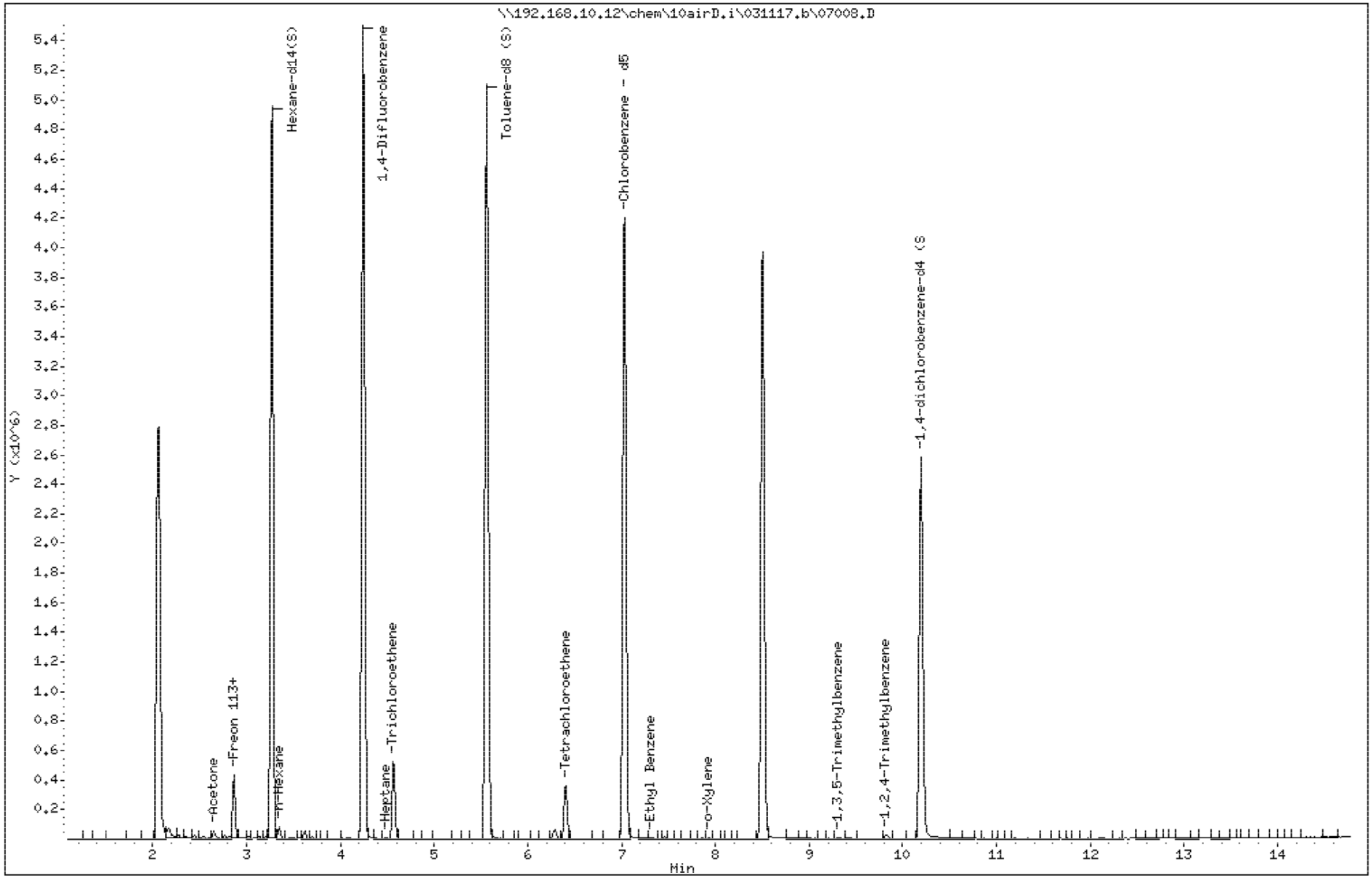
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3111816	-17.84
67 Chlorobenzene - d	3280875	1968525	4593225	2250717	-31.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.27	3.94	4.60	4.24	-0.60
67 Chlorobenzene - d	7.04	6.71	7.37	7.03	-0.18

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D
Date : 11-MAR-2017 15:07
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

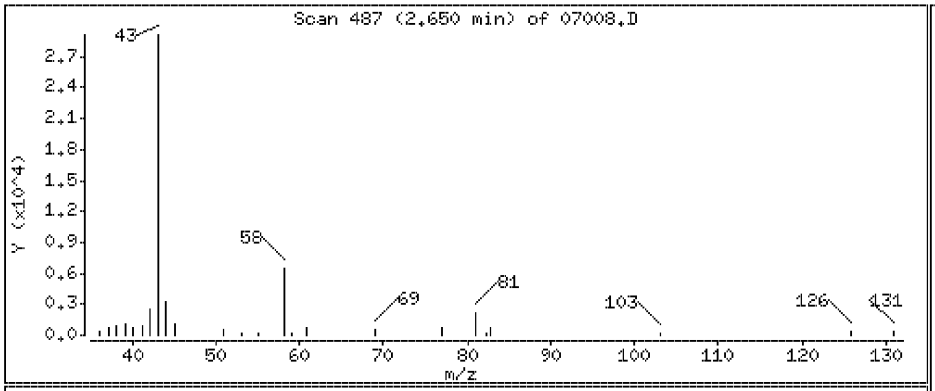
Operator: DR1

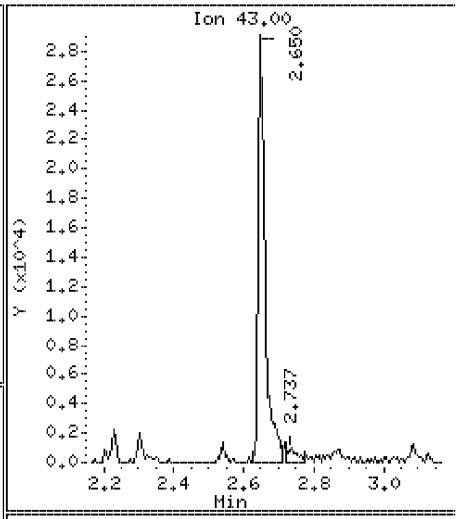
Column phase: J&W DB-5

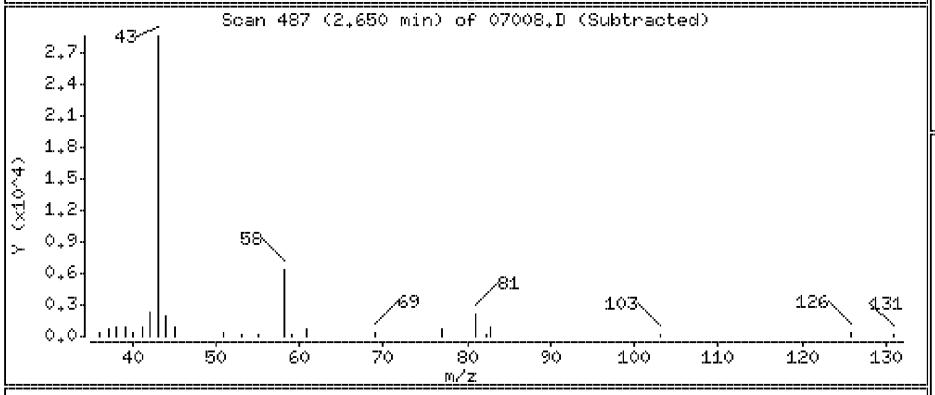
Column diameter: 0.32

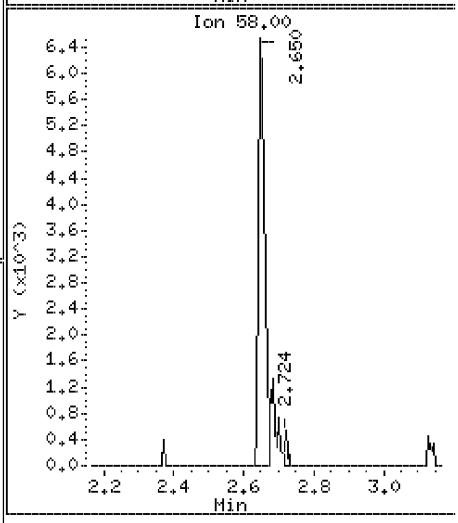
18 Acetone

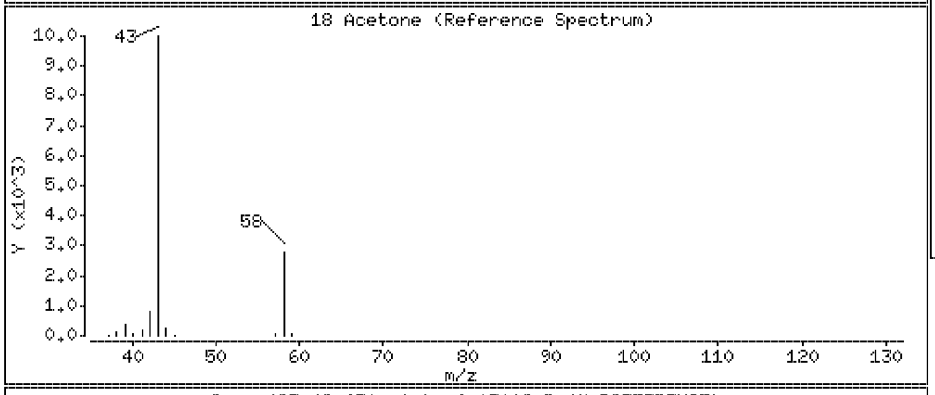
Concentration: 4.22 ppbv

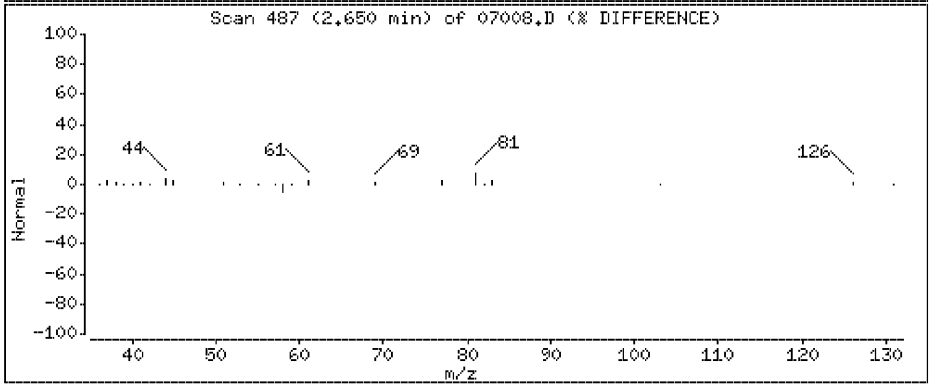












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

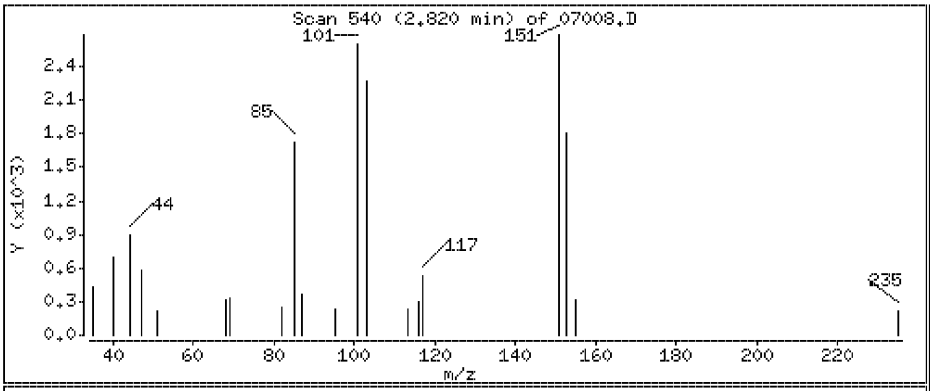
Operator: DR1

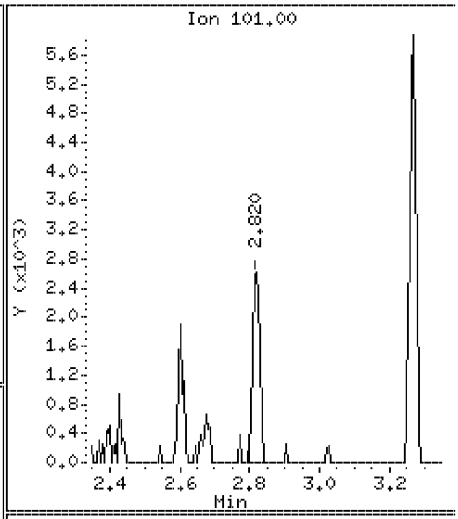
Column phase: J&W DB-5

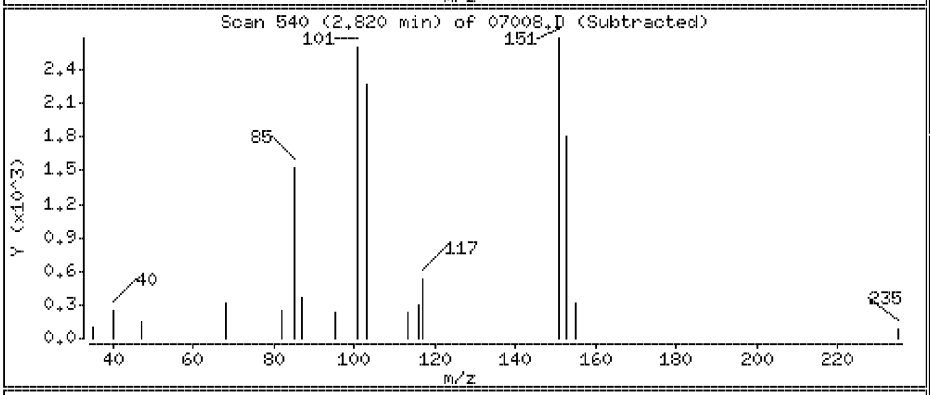
Column diameter: 0.32

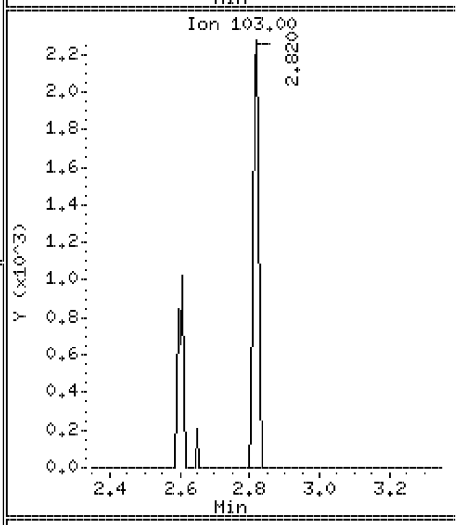
22 Freon 113

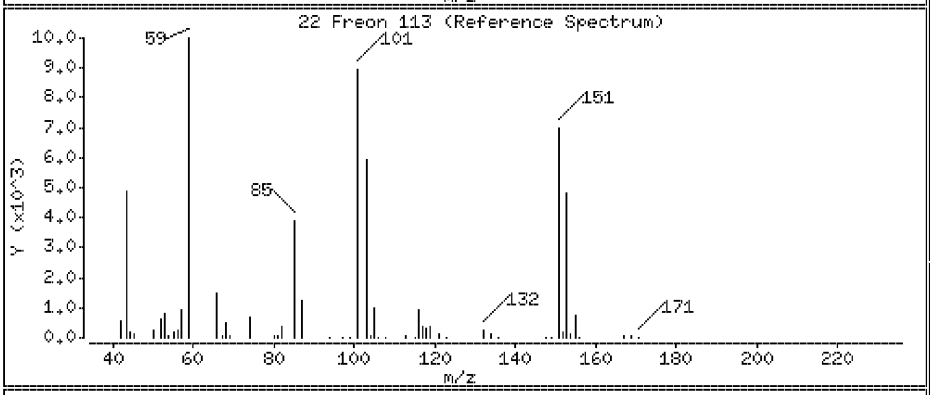
Concentration: 1.39 ppbv

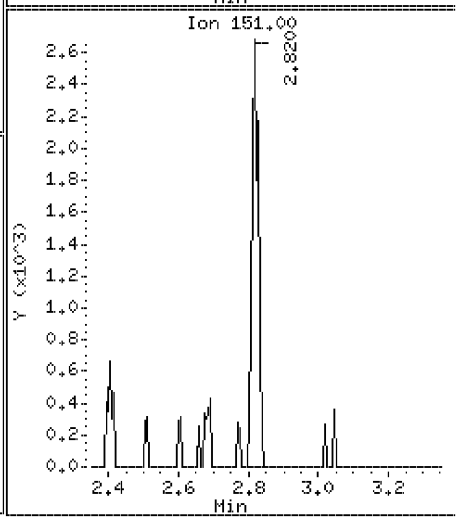


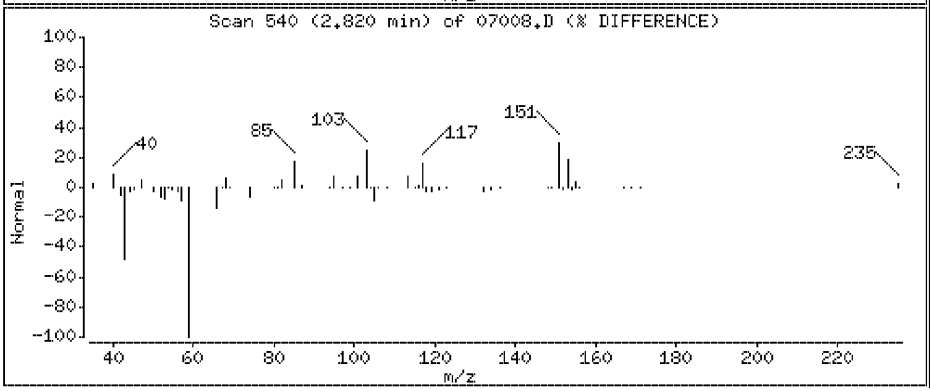












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

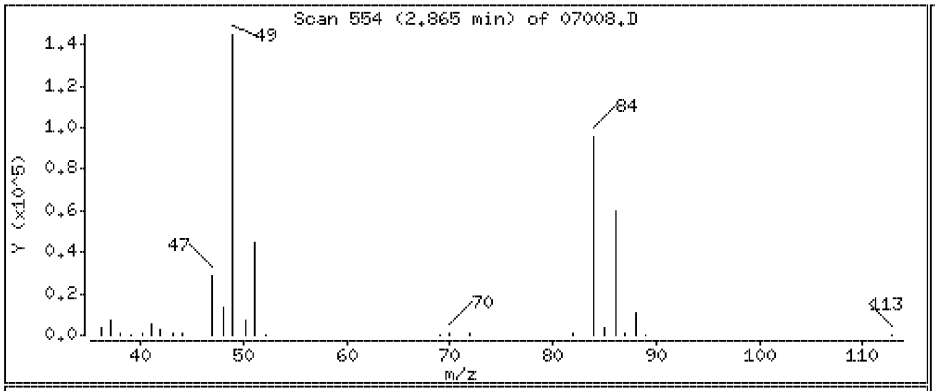
Operator: DR1

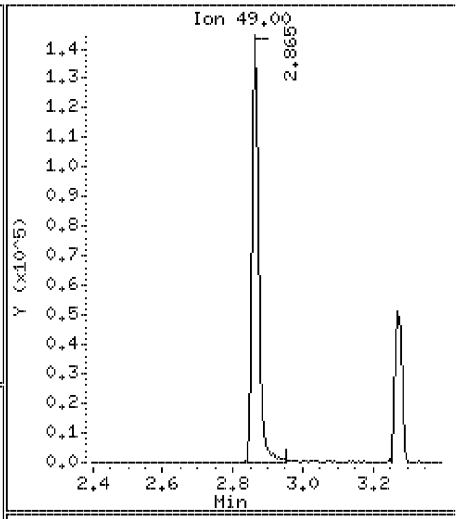
Column phase: J&W DB-5

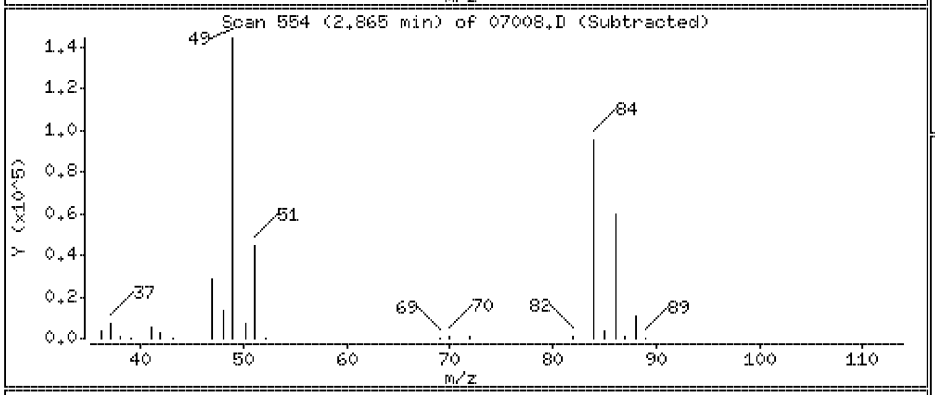
Column diameter: 0.32

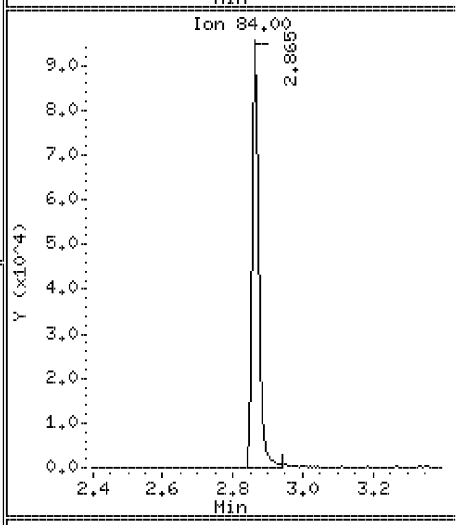
25 Methylene chloride

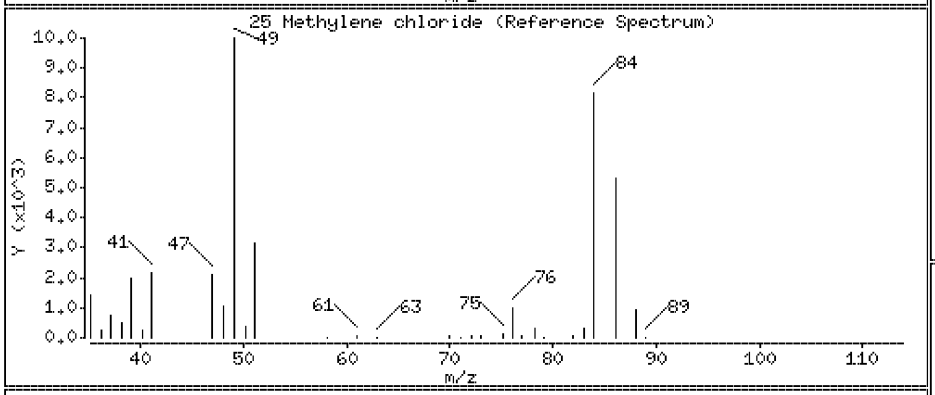
Concentration: 127 ppbv

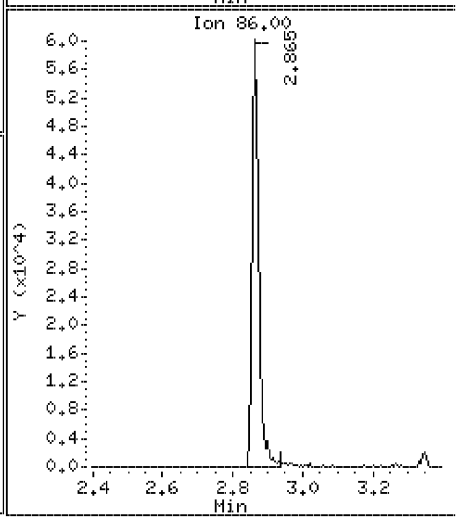


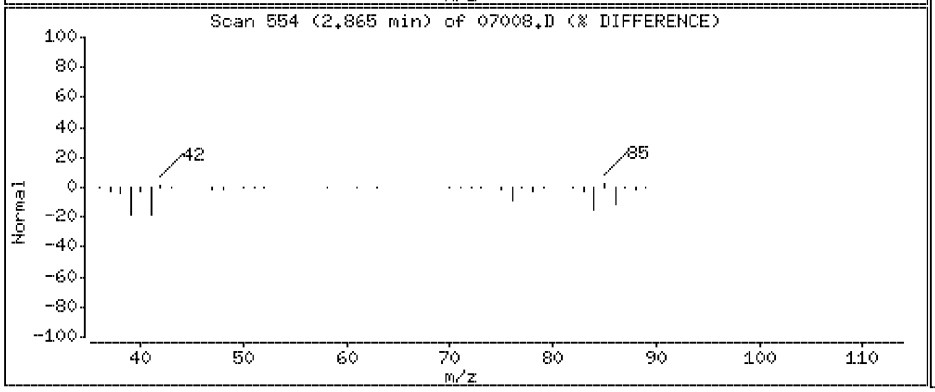












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

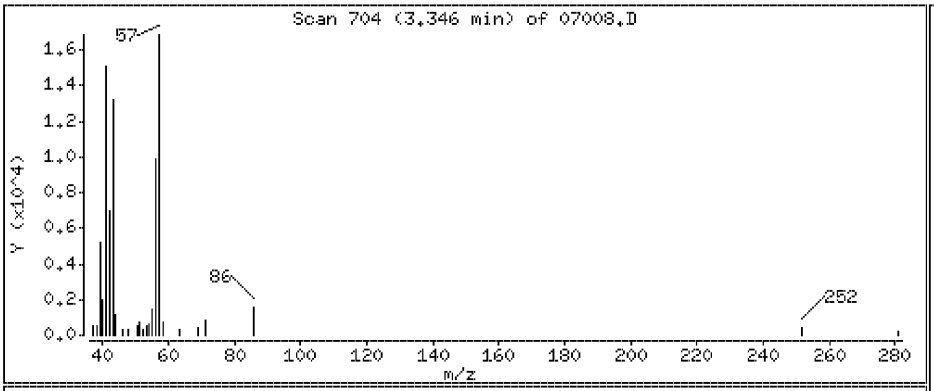
Operator: DR1

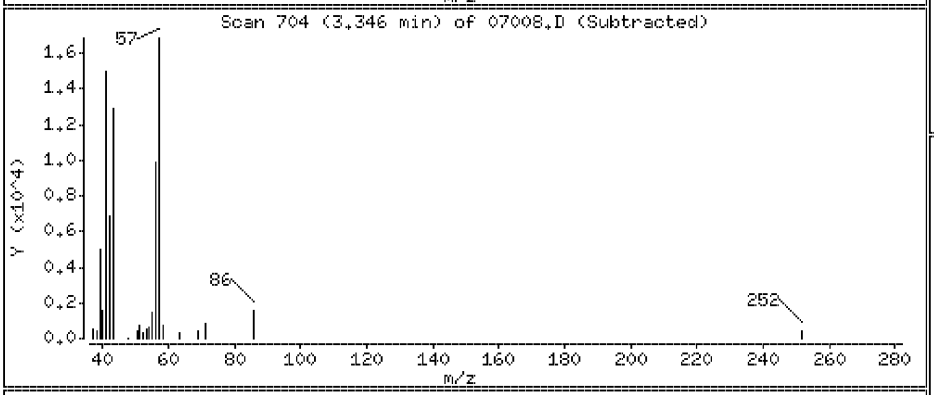
Column phase: J&W DB-5

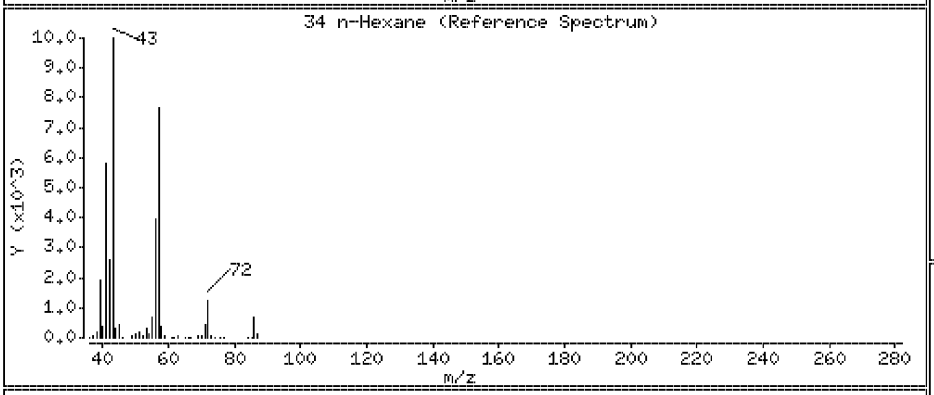
Column diameter: 0.32

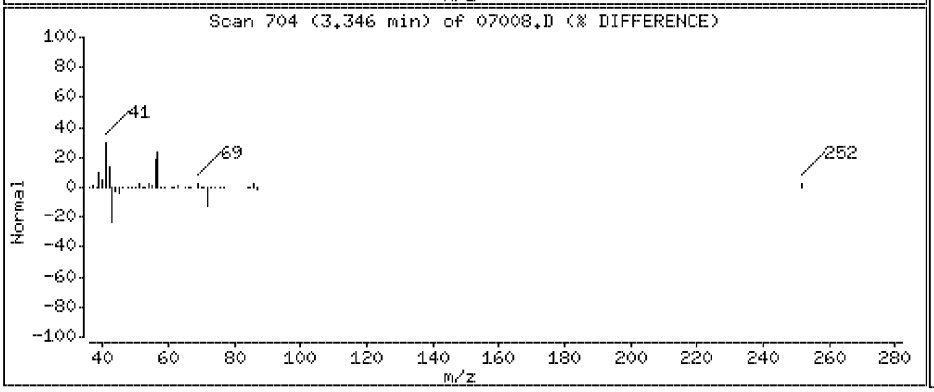
34 n-Hexane

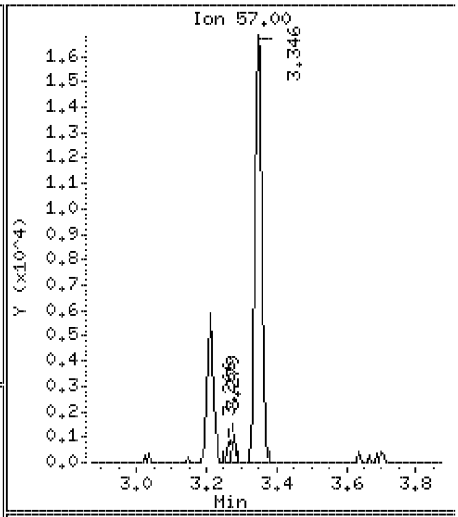
Concentration: 14.0 ppbv

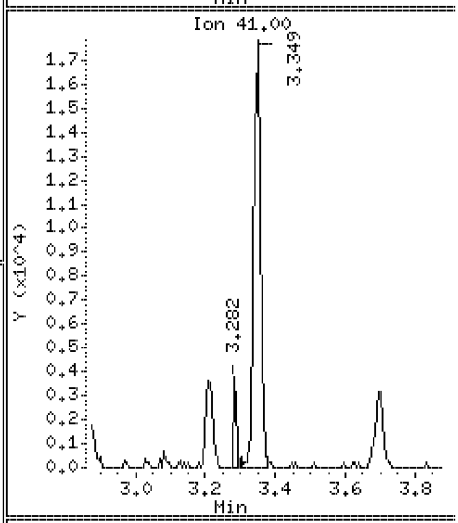


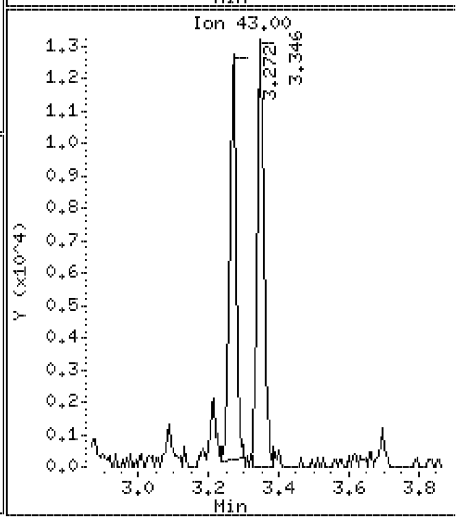












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

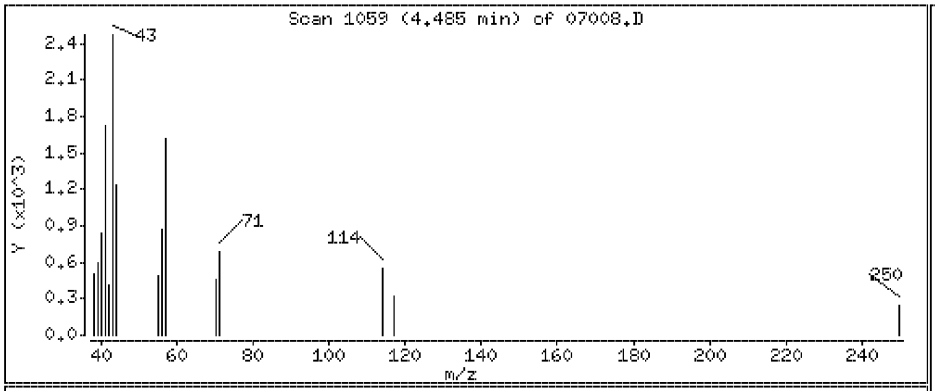
Operator: DR1

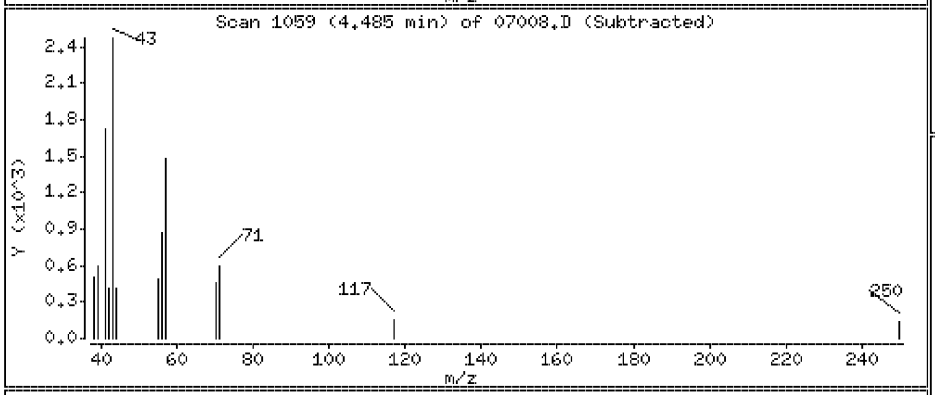
Column phase: J&W DB-5

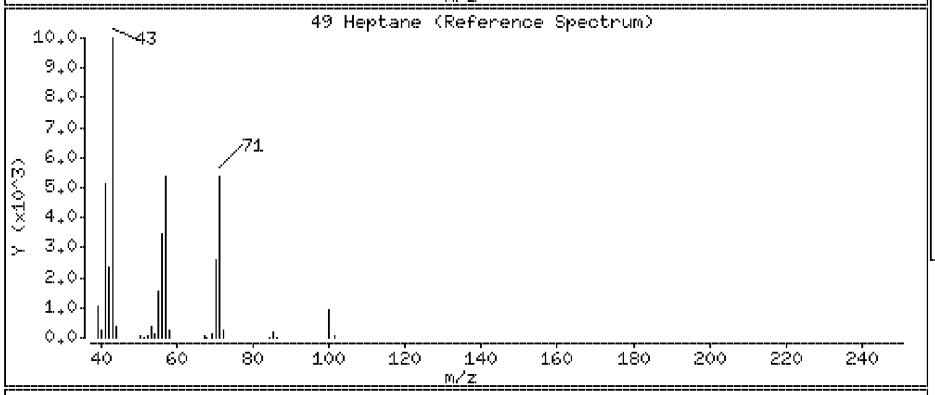
Column diameter: 0.32

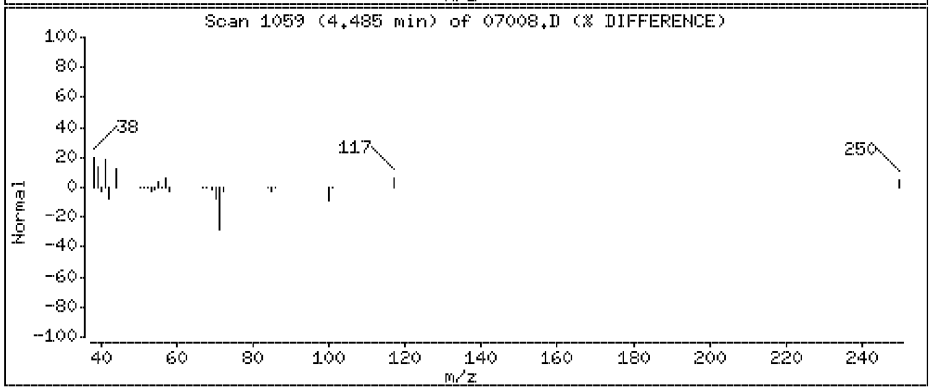
49 Heptane

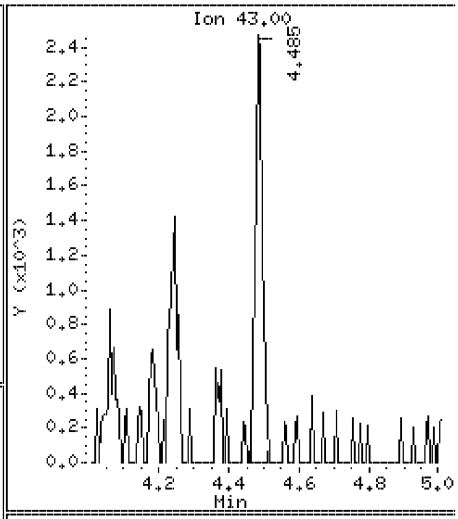
Concentration: 1.34 ppbv

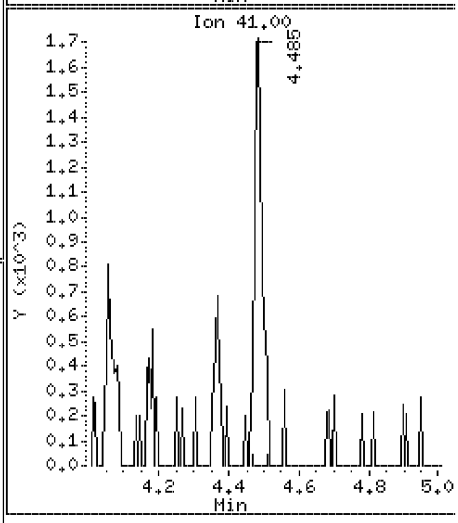












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

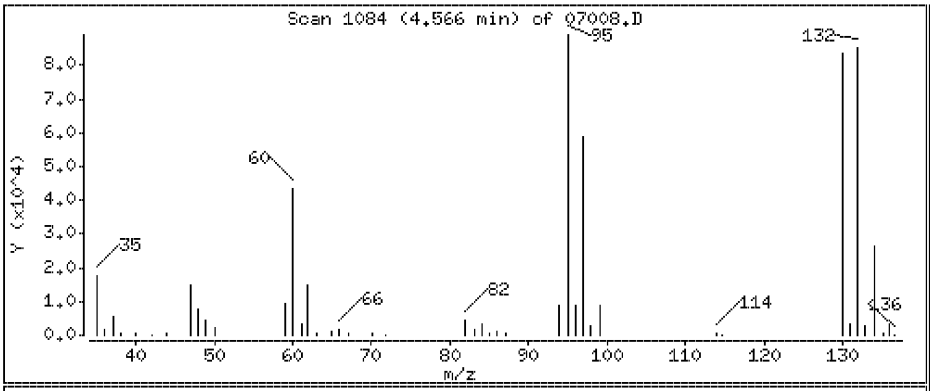
Operator: DR1

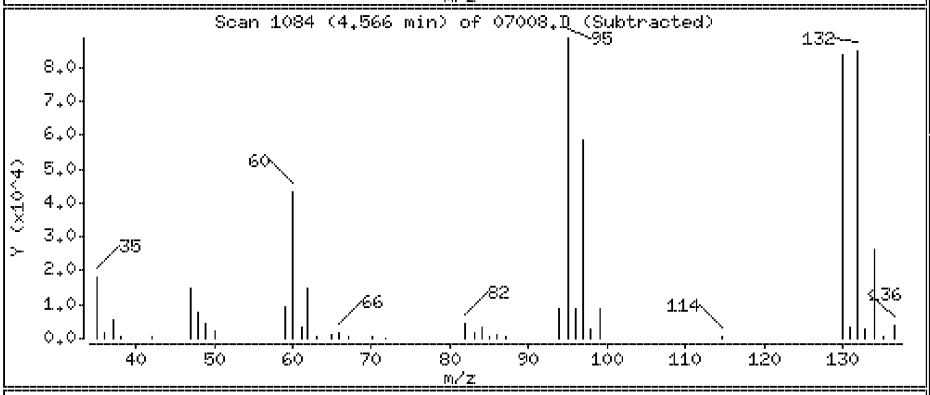
Column phase: J&W DB-5

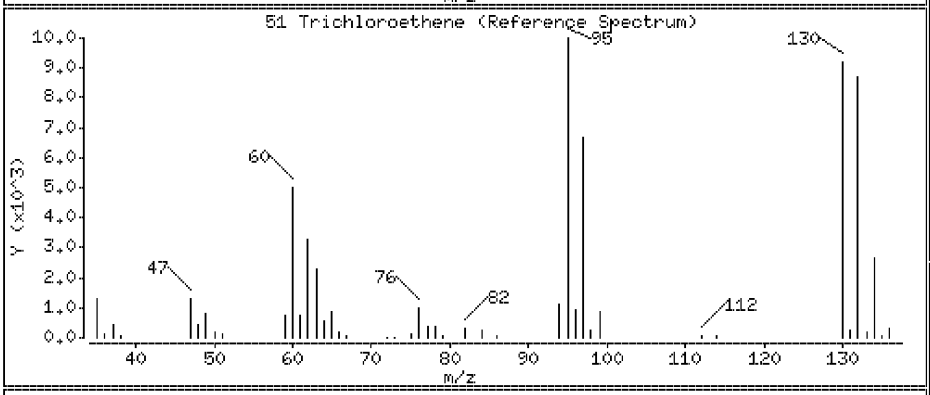
Column diameter: 0.32

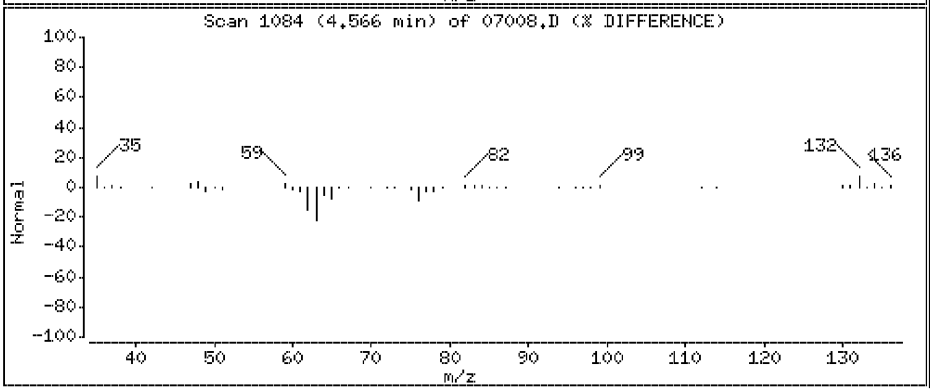
51 Trichloroethene

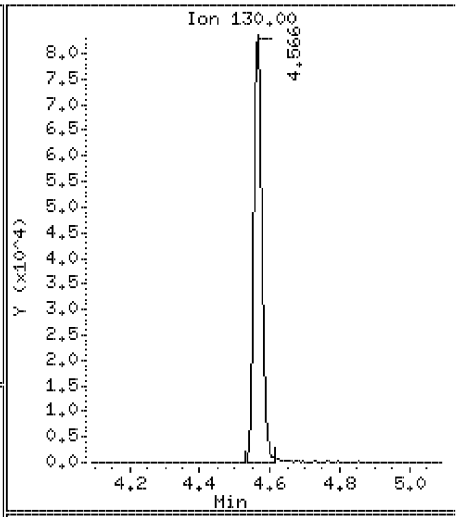
Concentration: 78.2 ppbv

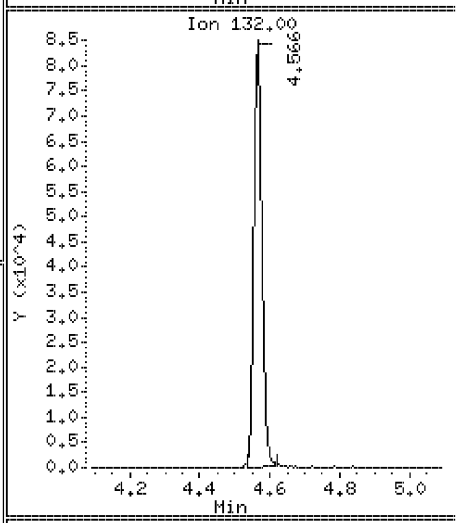


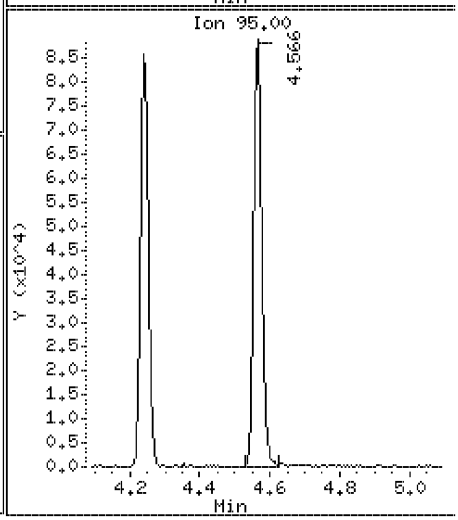












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

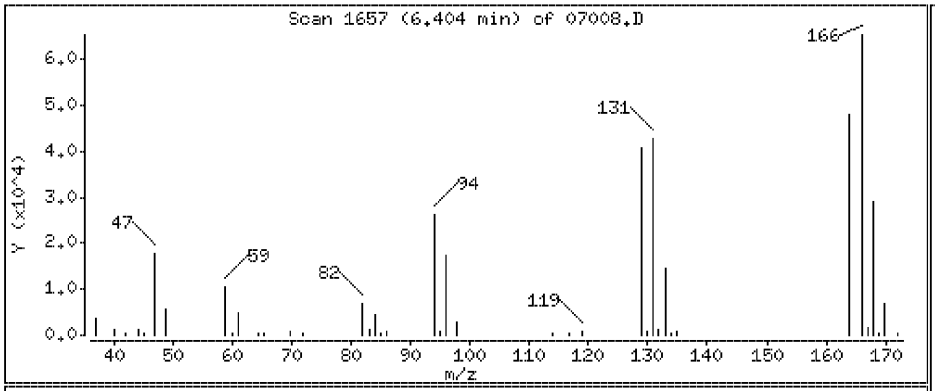
Operator: DR1

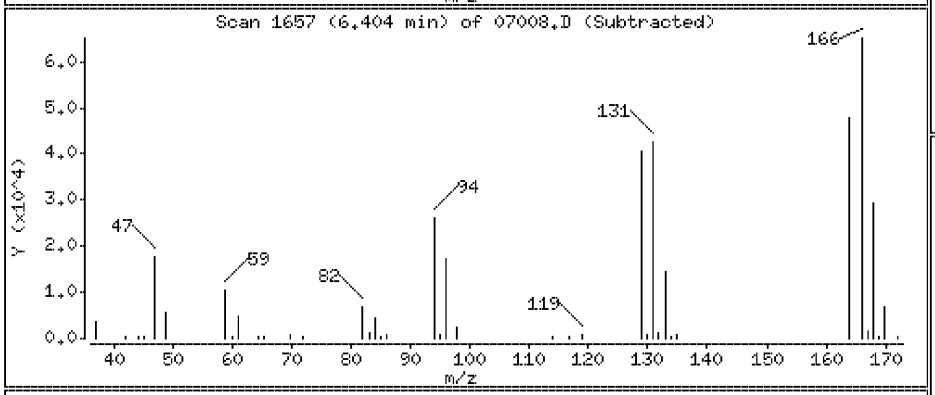
Column phase: J&W DB-5

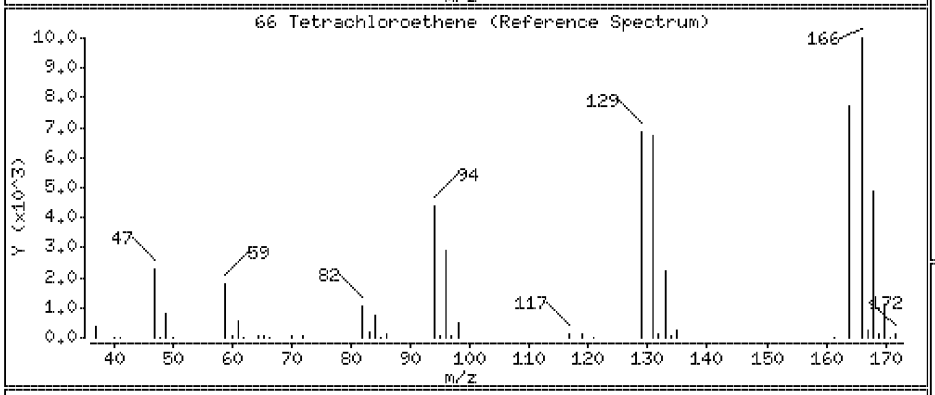
Column diameter: 0.32

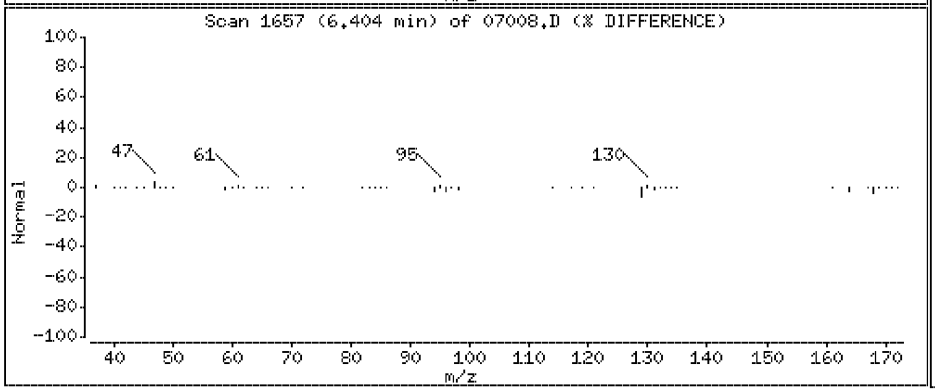
66 Tetrachloroethene

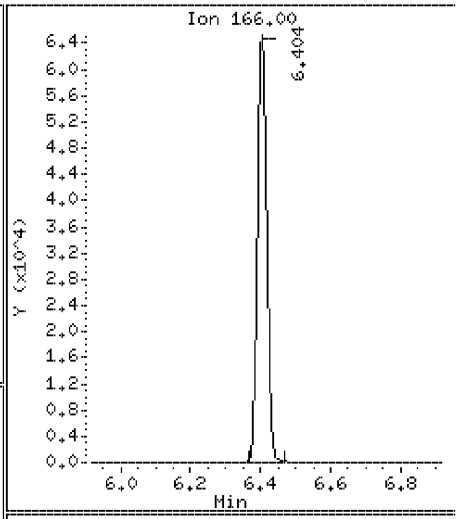
Concentration: 50.8 ppbv

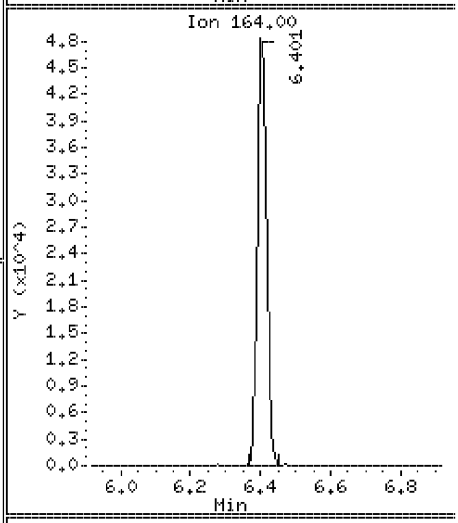


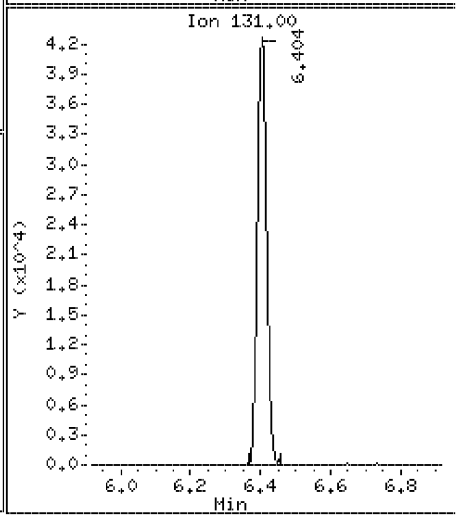












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

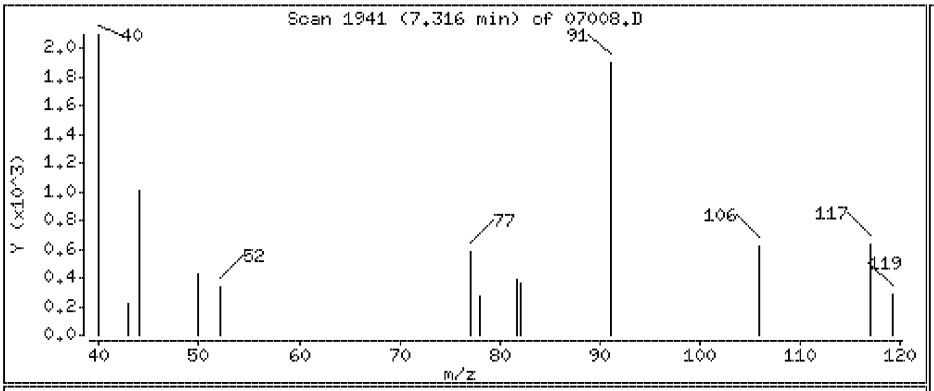
Operator: DR1

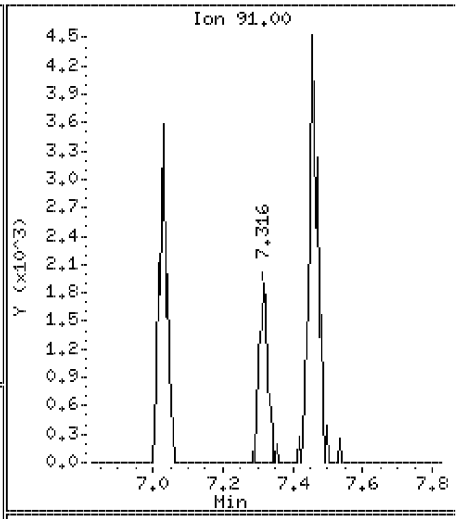
Column phase: J&W DB-5

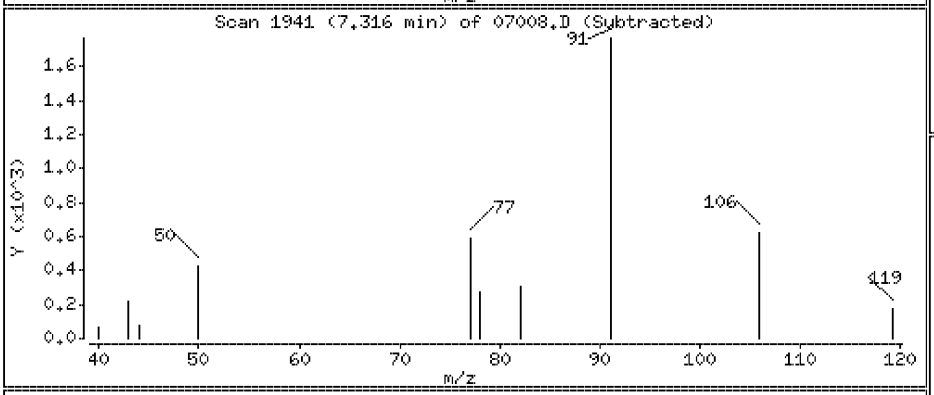
Column diameter: 0.32

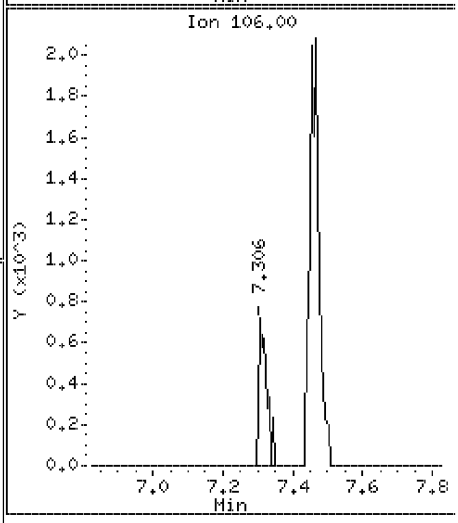
69 Ethyl Benzene

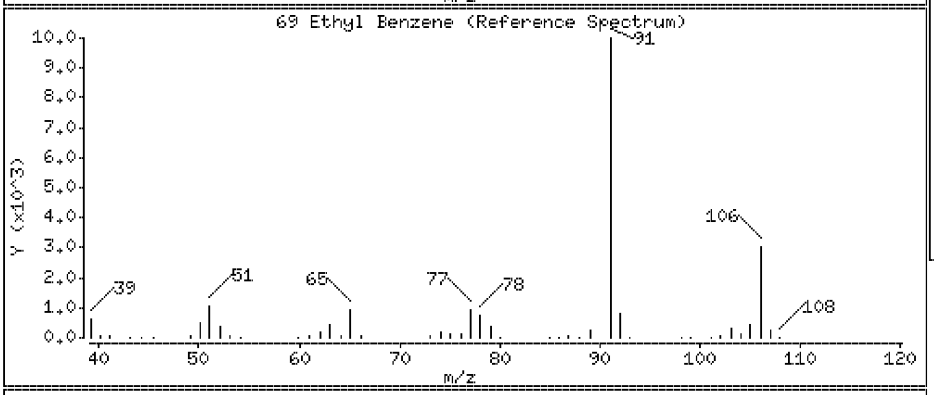
Concentration: 0.698 ppbv

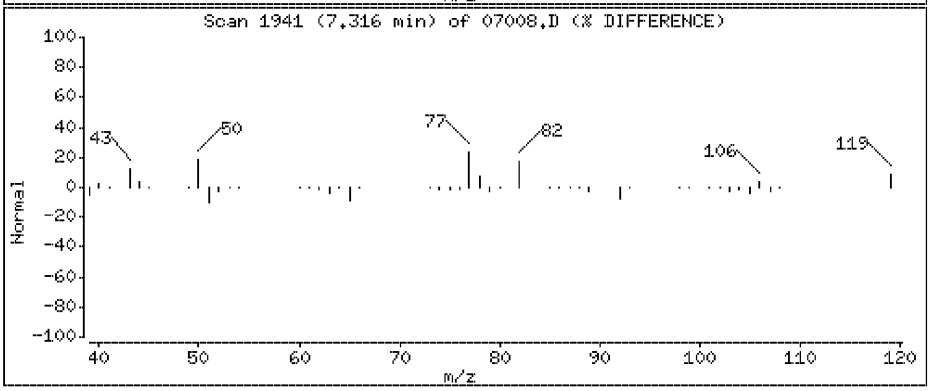












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

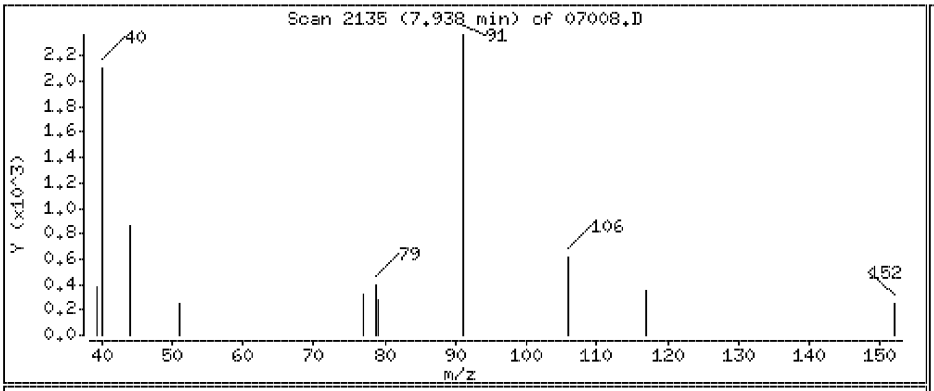
Operator: DR1

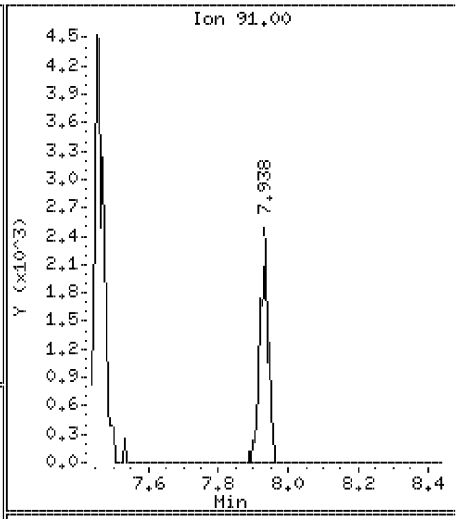
Column phase: J&W DB-5

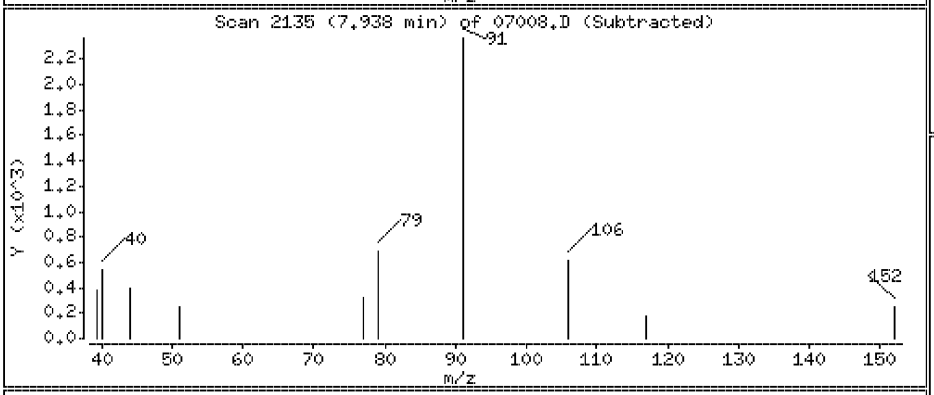
Column diameter: 0.32

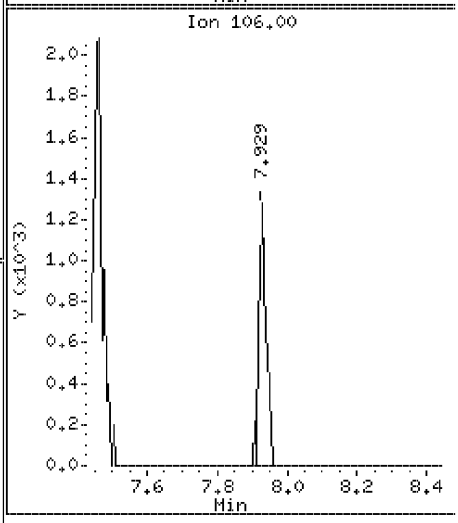
74 o-Xylene

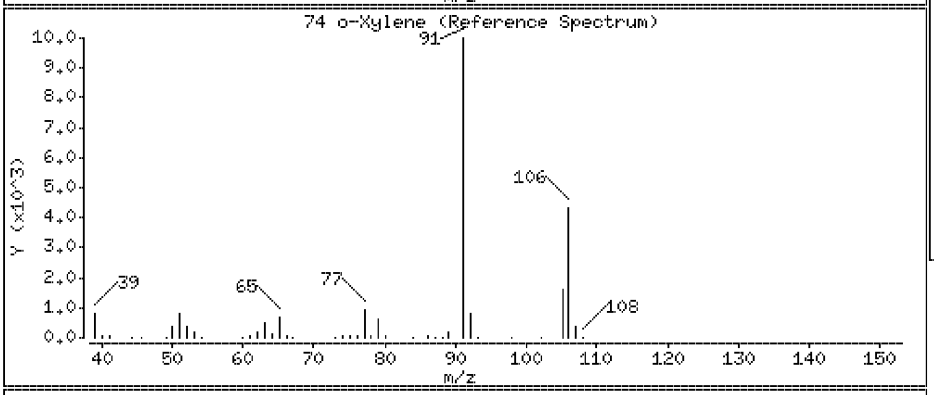
Concentration: 1.01 ppbv

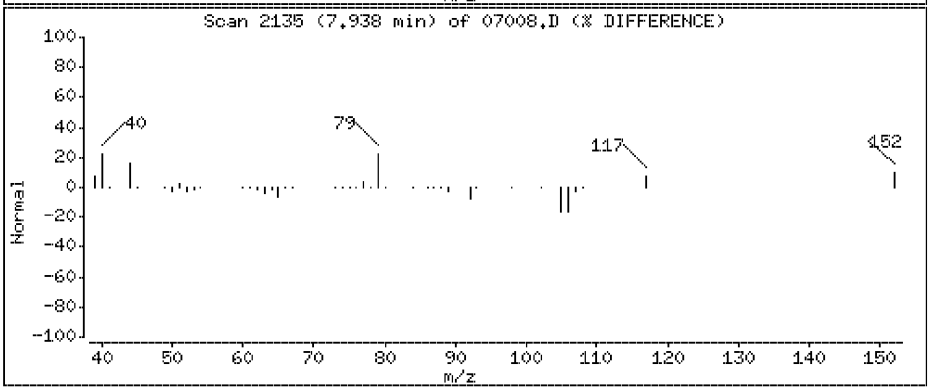












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

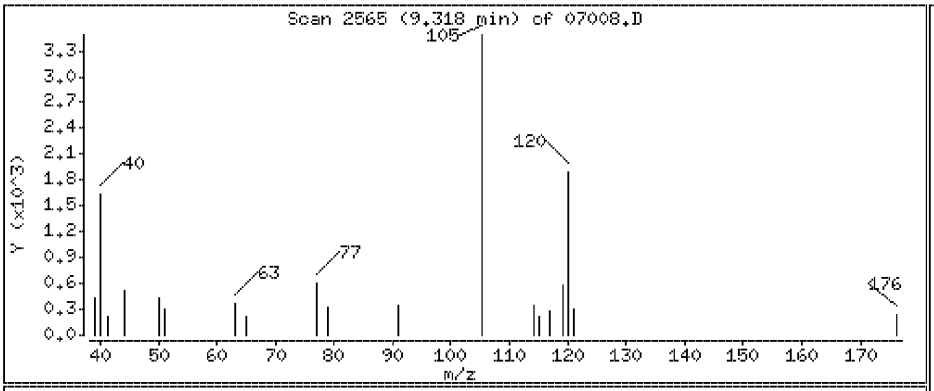
Operator: DR1

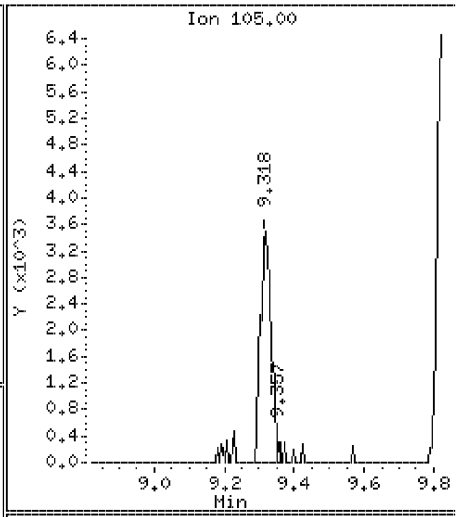
Column phase: J&W DB-5

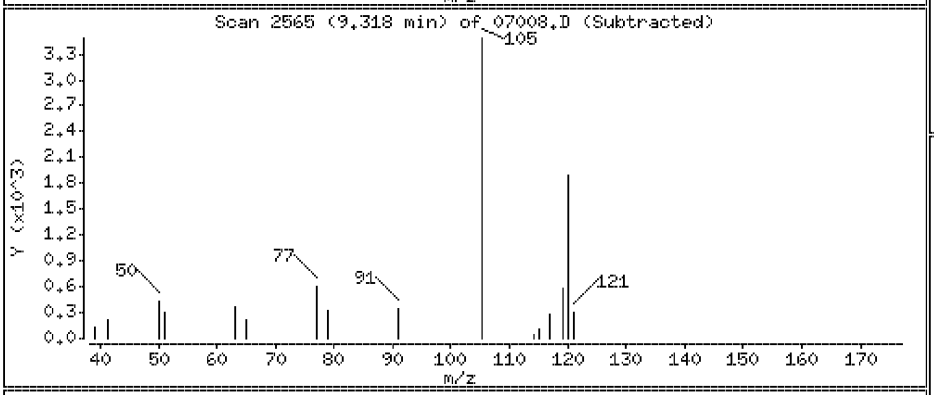
Column diameter: 0.32

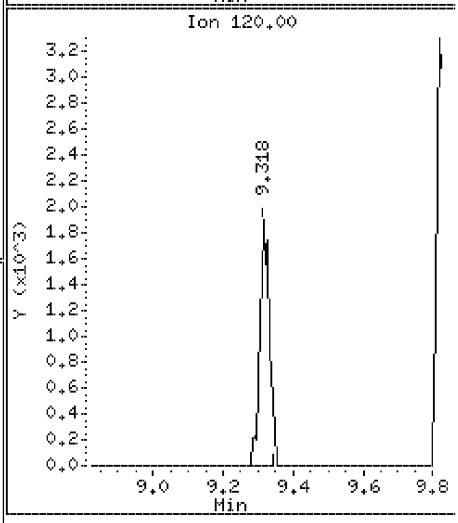
79 1,3,5-Trimethylbenzene

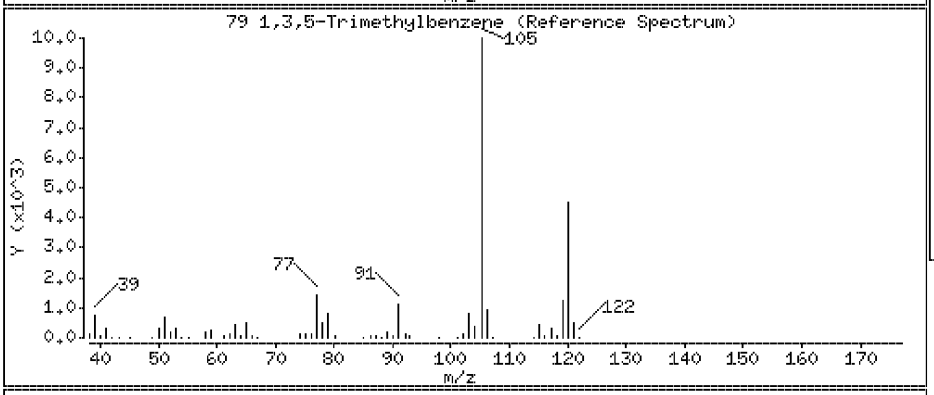
Concentration: 1.04 ppbv

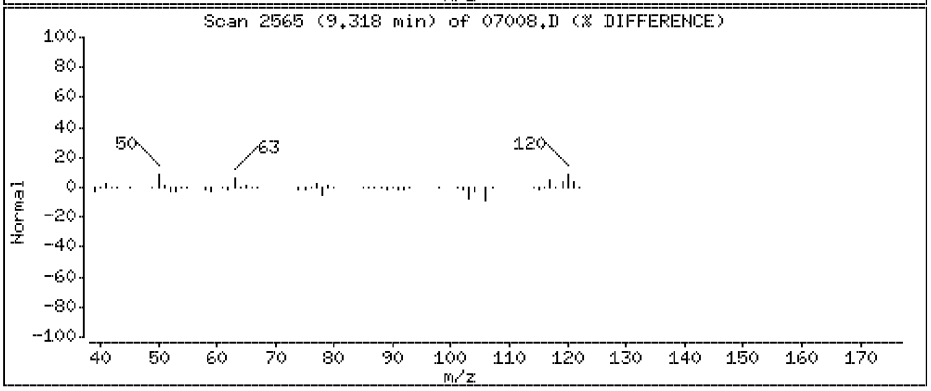












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07008.D

Date : 11-MAR-2017 15:07

Client ID:

Instrument: 10airD.i

Sample Info:

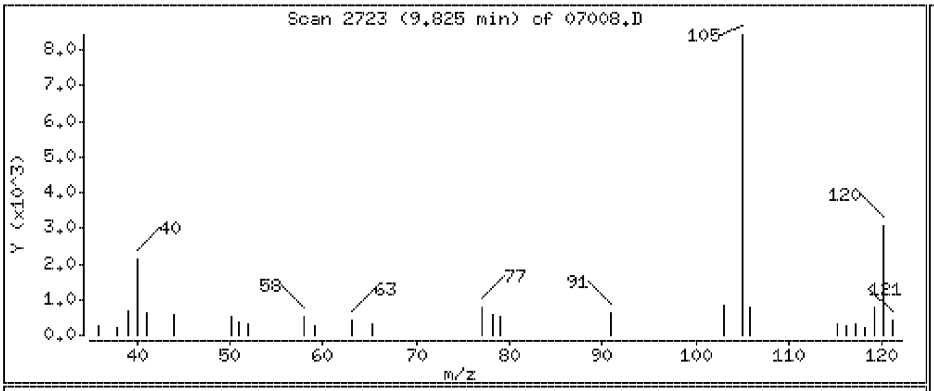
Operator: DR1

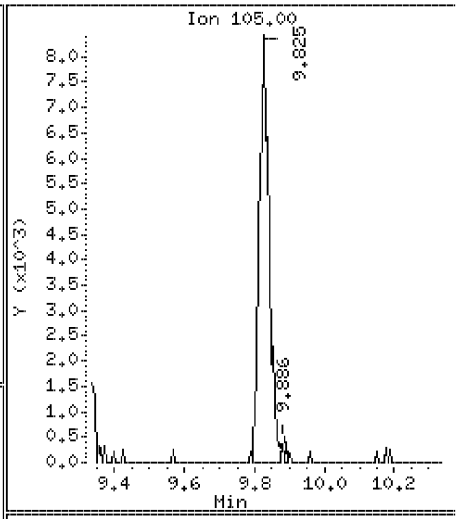
Column phase: J&W DB-5

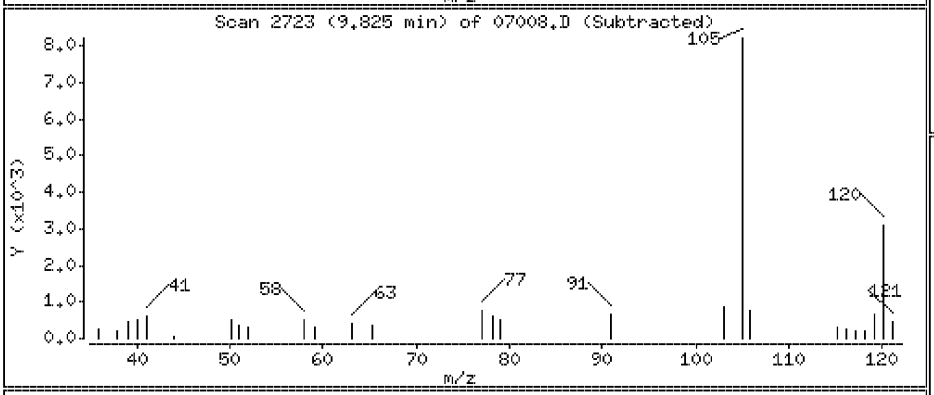
Column diameter: 0.32

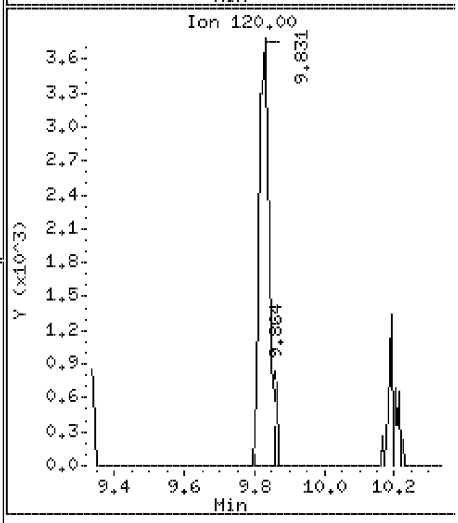
82 1,2,4-Trimethylbenzene

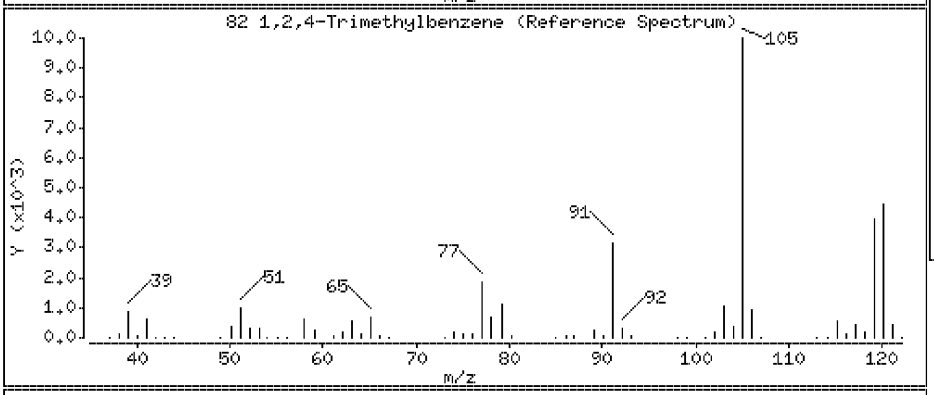
Concentration: 1.97 ppbv

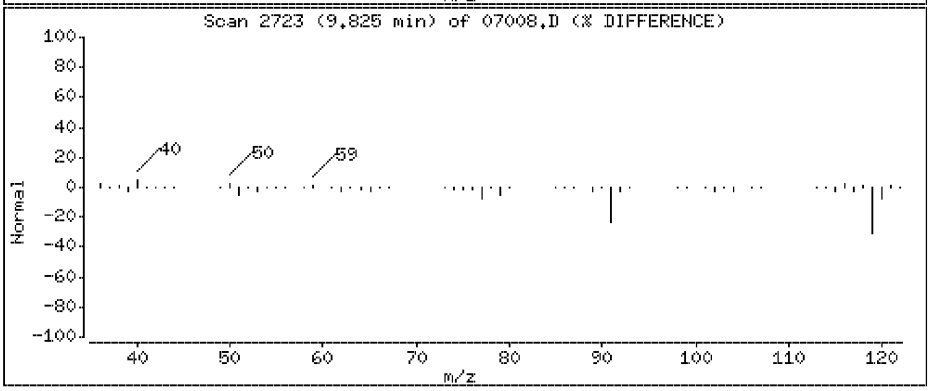












Data File: \\192.168.10.12\chem\10airD.i\031117.b/07008.d
Injection Date: 11-MAR-2017 15:07
Instrument: 10airD.i
Lab Sample ID: 10380372003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_51.5_20170226 **Lab ID: 10380372003** Collected: 02/26/17 13:45 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**3.2J**	ug/m3	4.4	0.42	1.75		03/10/17 18:21	67-63-0	
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/10/17 18:21	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/10/17 18:21	79-34-5	
Tetrachloroethene	**332**	ug/m3	1.2	0.49	1.75		03/10/17 18:21	127-18-4	
Toluene	**2.5**	ug/m3	1.3	0.27	1.75		03/10/17 18:21	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/10/17 18:21	120-82-1	
1,1,1-Trichloroethane	**1.4J**	ug/m3	1.9	0.43	1.75		03/10/17 18:21	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/10/17 18:21	79-00-5	
Trichloroethene	**441**	ug/m3	0.96	0.48	1.75		03/10/17 18:21	79-01-6	
Trichloroethene	**427**	ug/m3	12.9	6.5	23.45		03/11/17 15:07	79-01-6	
Trichlorofluoromethane	**3.0**	ug/m3	2.0	0.23	1.75		03/10/17 18:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	**11.4**	ug/m3	2.8	0.53	1.75		03/10/17 18:21	76-13-1	
1,2,4-Trimethylbenzene	**0.76J**	ug/m3	1.7	0.22	1.75		03/10/17 18:21	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/10/17 18:21	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/10/17 18:21	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.1	1.4	1.75		03/10/17 18:21	179601-23-1	
o-Xylene	**0.61U**	ug/m3	1.5	0.61	1.75		03/10/17 18:21	95-47-6	

Sample: VP-102_57.5_20170226 **Lab ID: 10380372004** Collected: 02/26/17 13:50 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.1**	ug/m3	11.0	1.5	1.83		03/10/17 18:48	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/10/17 18:48	107-05-1	
Benzene	**0.48J**	ug/m3	0.59	0.22	1.83		03/10/17 18:48	71-43-2	
Bromodichloromethane	**0.89J**	ug/m3	2.5	0.36	1.83		03/10/17 18:48	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/10/17 18:48	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/10/17 18:48	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/10/17 18:48	106-99-0	
2-Butanone (MEK)	**1.2J**	ug/m3	5.5	0.42	1.83		03/10/17 18:48	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/10/17 18:48	75-15-0	
Carbon tetrachloride	**0.71J**	ug/m3	1.2	0.35	1.83		03/10/17 18:48	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/10/17 18:48	108-90-7	
Chlorodifluoromethane	**0.51U**	ug/m3	1.3	0.51	1.83		03/10/17 18:48	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/10/17 18:48	75-00-3	
Chloroform	**3.8**	ug/m3	0.91	0.35	1.83		03/10/17 18:48	67-66-3	
Chloromethane	**0.20U**	ug/m3	0.77	0.20	1.83		03/10/17 18:48	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/10/17 18:48	76-15-3	
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/10/17 18:48	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/10/17 18:48	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/10/17 18:48	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/10/17 18:48	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/10/17 18:48	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_57.5_20170226 **Lab ID: 10380372004** Collected: 02/26/17 13:50 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/10/17 18:48	541-73-1	
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/10/17 18:48	106-46-7	
Dichlorodifluoromethane	**0.88U**	ug/m3	1.8	0.88	1.83		03/10/17 18:48	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/10/17 18:48	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/10/17 18:48	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 18:48	75-35-4	
cis-1,2-Dichloroethene	**8.5**	ug/m3	1.5	0.45	1.83		03/10/17 18:48	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/10/17 18:48	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/10/17 18:48	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/10/17 18:48	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/10/17 18:48	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/10/17 18:48	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/10/17 18:48	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/10/17 18:48	123-91-1	
Ethylbenzene	**0.78U**	ug/m3	1.6	0.78	1.83		03/10/17 18:48	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/10/17 18:48	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/10/17 18:48	87-68-3	
n-Hexane	**0.65U**	ug/m3	1.3	0.65	1.83		03/10/17 18:48	110-54-3	
2-Hexanone	**0.75U**	ug/m3	7.6	0.75	1.83		03/10/17 18:48	591-78-6	
Isopropylbenzene (Cumene)	**0.25U**	ug/m3	4.6	0.25	1.83		03/10/17 18:48	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/10/17 18:48	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 18:48	108-87-2	
Methylene Chloride	**0.99U**	ug/m3	6.5	0.99	1.83		03/10/17 18:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/10/17 18:48	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/10/17 18:48	1634-04-4	
2-Propanol	**0.44U**	ug/m3	4.6	0.44	1.83		03/10/17 18:48	67-63-0	
Styrene	**0.35U**	ug/m3	1.6	0.35	1.83		03/10/17 18:48	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/10/17 18:48	79-34-5	
Tetrachloroethene	**363**	ug/m3	1.3	0.51	1.83		03/10/17 18:48	127-18-4	
Toluene	**7.0**	ug/m3	1.4	0.28	1.83		03/10/17 18:48	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/10/17 18:48	120-82-1	
1,1,1-Trichloroethane	**1.3J**	ug/m3	2.0	0.45	1.83		03/10/17 18:48	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/10/17 18:48	79-00-5	
Trichloroethene	**470**	ug/m3	1.0	0.51	1.83		03/10/17 18:48	79-01-6	
Trichloroethene	**927**	ug/m3	22.5	11.3	40.99		03/11/17 15:31	79-01-6	
Trichlorofluoromethane	**3.4**	ug/m3	2.1	0.24	1.83		03/10/17 18:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	**12.2**	ug/m3	2.9	0.55	1.83		03/10/17 18:48	76-13-1	
1,2,4-Trimethylbenzene	**0.70J**	ug/m3	1.8	0.23	1.83		03/10/17 18:48	95-63-6	
1,3,5-Trimethylbenzene	**0.33U**	ug/m3	1.8	0.33	1.83		03/10/17 18:48	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/10/17 18:48	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.2	1.4	1.83		03/10/17 18:48	179601-23-1	
o-Xylene	**0.64U**	ug/m3	1.6	0.64	1.83		03/10/17 18:48	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.d
Report Date: 13-Mar-2017 15:47

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06909.d
Lab Smp Id: 10380372004
Inj Date : 10-MAR-2017 18:48
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 9
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.601	2.605	(0.613)	25677	0.32205	0.589	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.650	2.637	(0.624)	176100	3.42746	6.27	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	2.826	2.823	(0.666)	53338	0.85329	1.56(H)	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.d
Report Date: 13-Mar-2017 15:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	2.865	2.871	(0.675)	16207	0.12193	0.223	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.266	3.269	(0.769)	1747674	9.49638	9.50	
	33 Methyl Ethyl Ketone	72	3.352	3.336	(0.790)	2429	0.22038	0.403(QH)	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 cis-1,2-Dichloroethene	96	3.458	3.468	(0.815)	29598	1.15725	2.12(Q)	
	37 Ethyl Acetate	43	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	3.551	3.567	(0.837)	26812	0.41511	0.760	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	3.888	3.901	(0.916)	8589	0.13219	0.242(Q)	
	42 1,2-Dichloroethane	62	3.898	3.911	(0.918)	582	0.01233	0.0226(aQ)	
	43 Benzene	78	4.100	4.106	(0.966)	6101	0.07998	0.146(Q)	
	45 Carbon tetrachloride	117	4.106	4.119	(0.967)	3689	0.06032	0.110	
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.244	4.247	(1.000)	3466592	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	4.565	4.572	(1.076)	1966856	46.9704	86.0(A)	
	52 Methyl methacrylate	69	4.658	4.652	(1.097)	753	0.02722	0.0498(aQ)	
	53 Bromodichloromethane	83	4.662	4.665	(1.098)	5149	0.07141	0.131	
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.563	5.566	(1.311)	3323966	9.56924	9.57	
	60 Toluene	91	5.634	5.634	(1.327)	102919	1.00429	1.84	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	5.897	5.881	(0.839)	2919	0.04541	0.0831(a)	
	63 n-Octane	43	6.057	6.054	(0.862)	4676	0.06996	0.128(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.404	6.407	(0.911)	1711632	28.7463	52.6	
*	67 Chlorobenzene - d5	117	7.030	7.033	(1.000)	2693340	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.319	7.318	(1.041)	6191	0.05239	0.0959	
	70 m&p-Xylene	91	7.460	7.460	(1.061)	16625	0.05262	0.0963	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	Compound Not Detected.						(D)
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	7.935	7.931	(1.129)	5847	0.06001	0.110(M)	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.d
Report Date: 13-Mar-2017 15:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.828	9.828	(1.398)	17384	0.07638	0.140	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.197	(1.450)	1494152	9.05451	9.05	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.963	12.953	(1.844)	5169	0.18315	0.335	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.d
Report Date: 13-Mar-2017 15:47

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06909.d
Lab Smp Id: 10380372004
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 10-MAR-2017
Calibration Time: 14:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

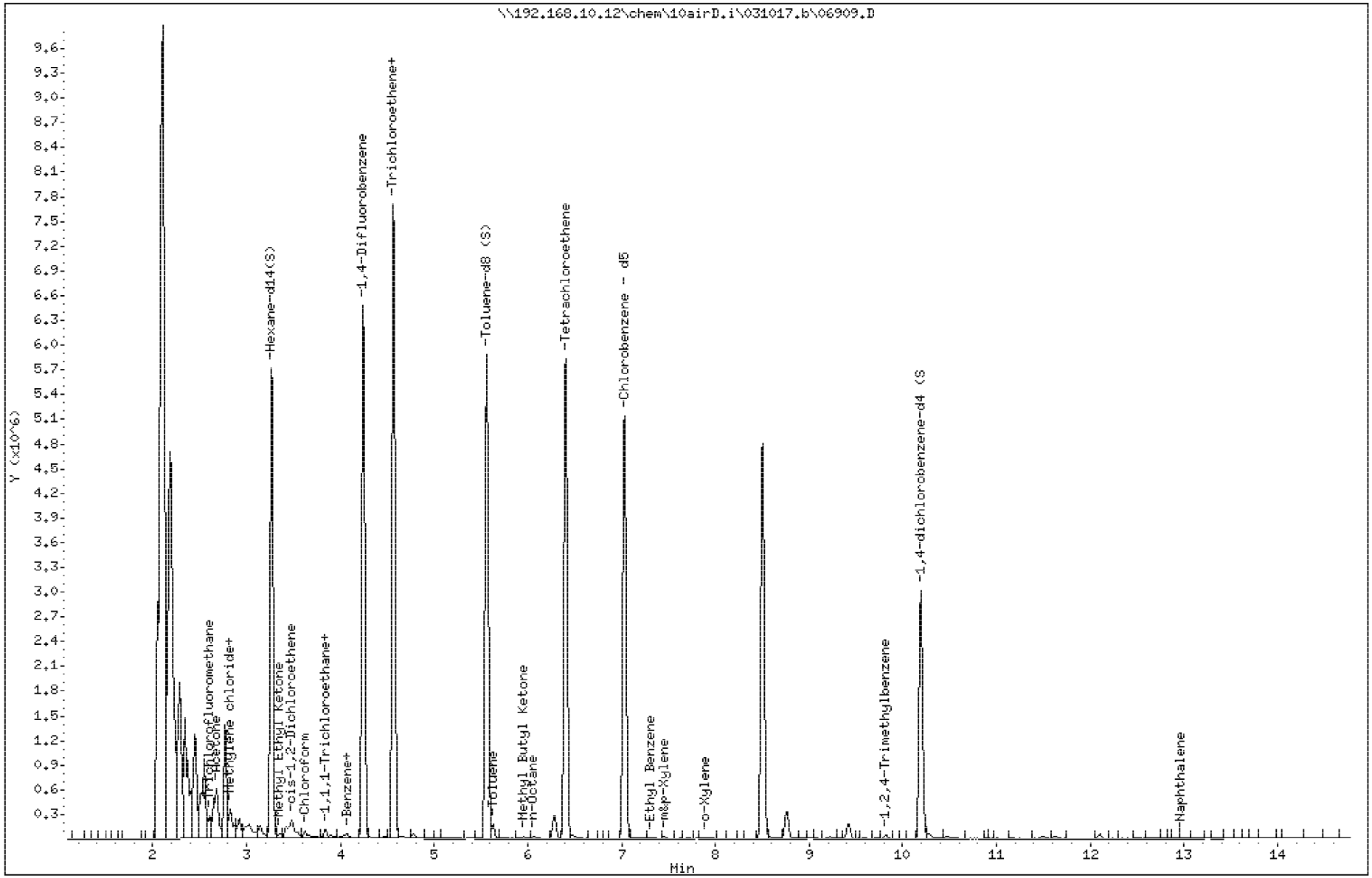
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3466592	-8.47
67 Chlorobenzene - d	3280875	1968525	4593225	2693340	-17.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.07
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D
Date : 10-MAR-2017 18:48
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

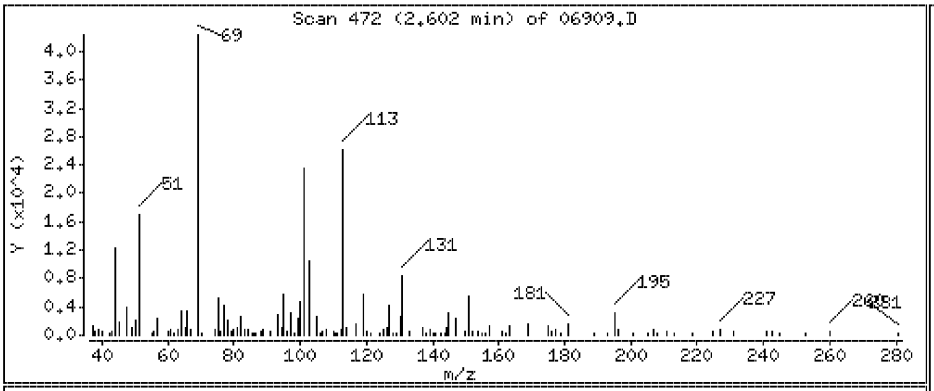
Operator: DR1

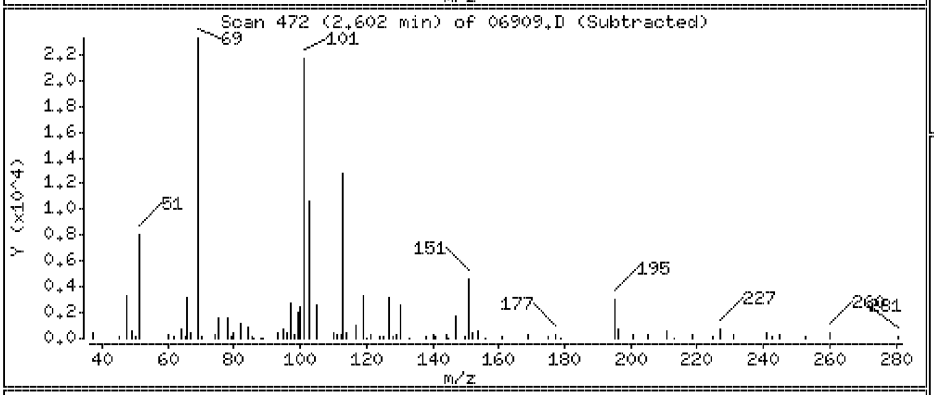
Column phase: J&W DB-5

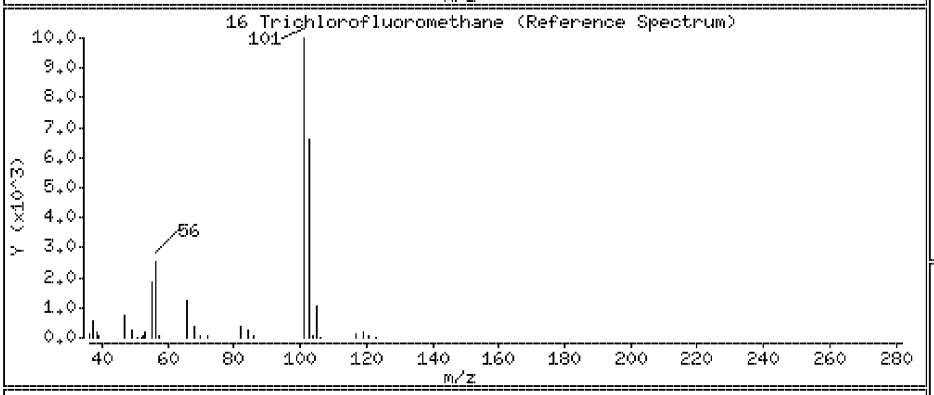
Column diameter: 0.32

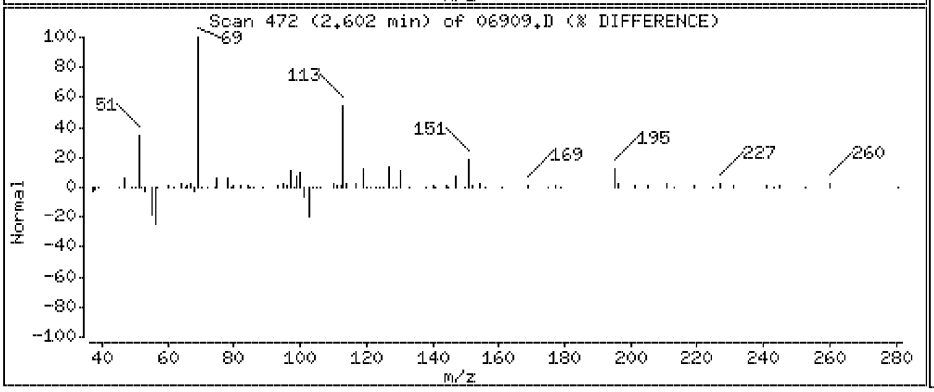
16 Trichlorofluoromethane

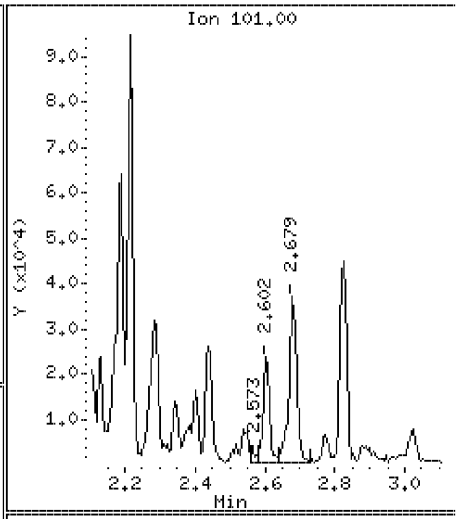
Concentration: 0.589 ppbv

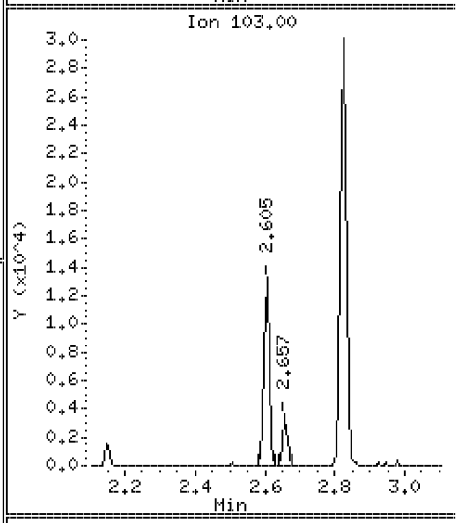


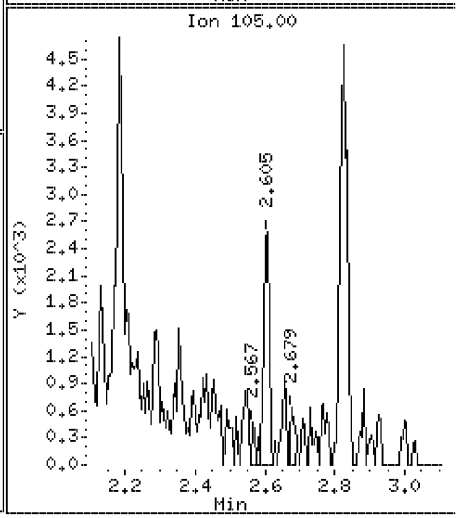












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

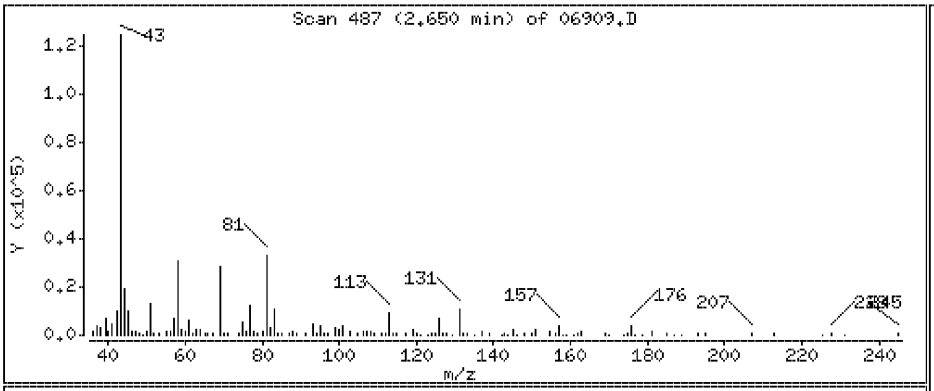
Operator: DR1

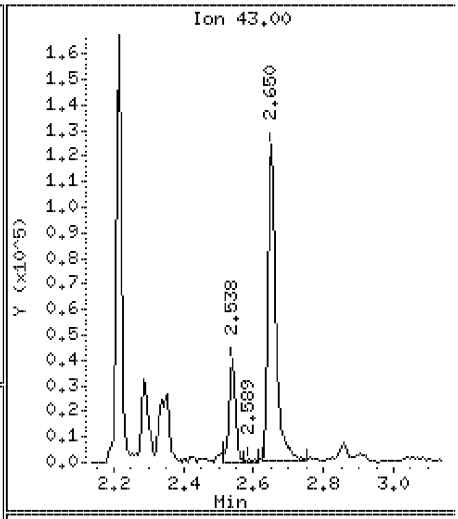
Column phase: J&W DB-5

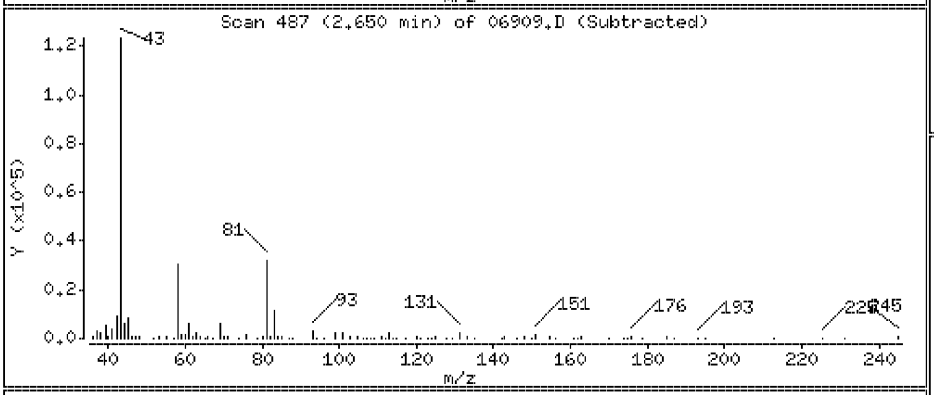
Column diameter: 0.32

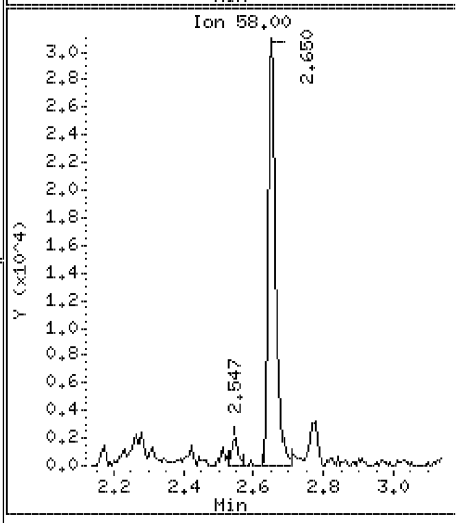
18 Acetone

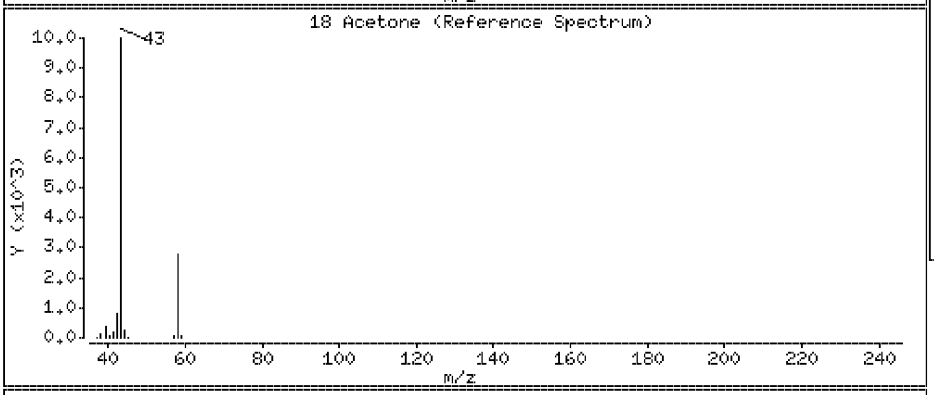
Concentration: 6.27 ppbv

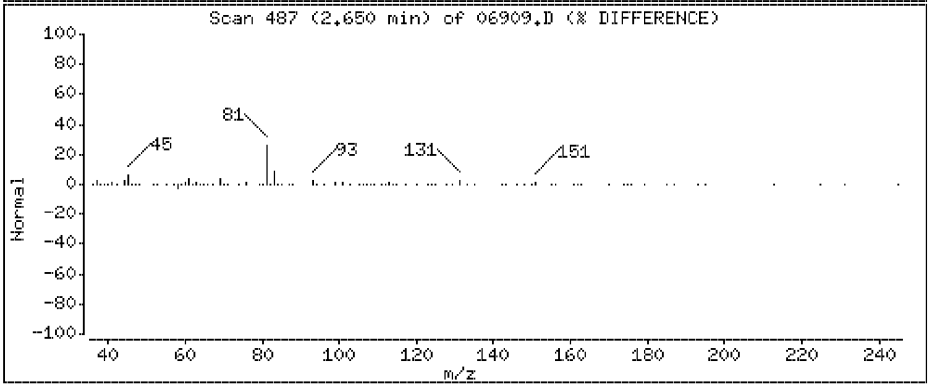












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

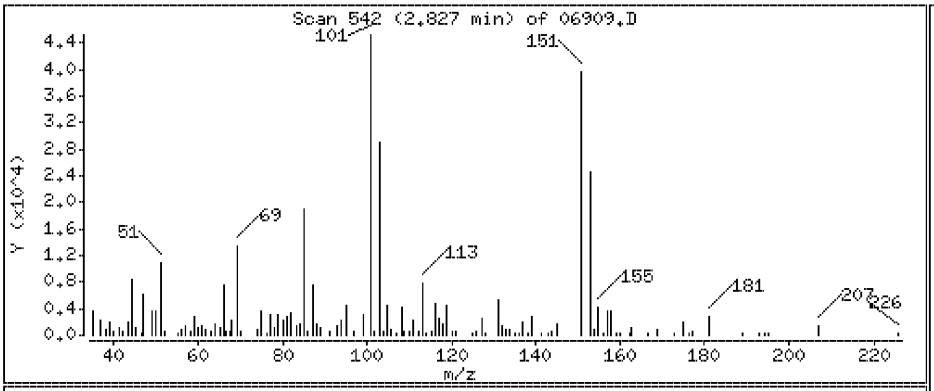
Operator: DR1

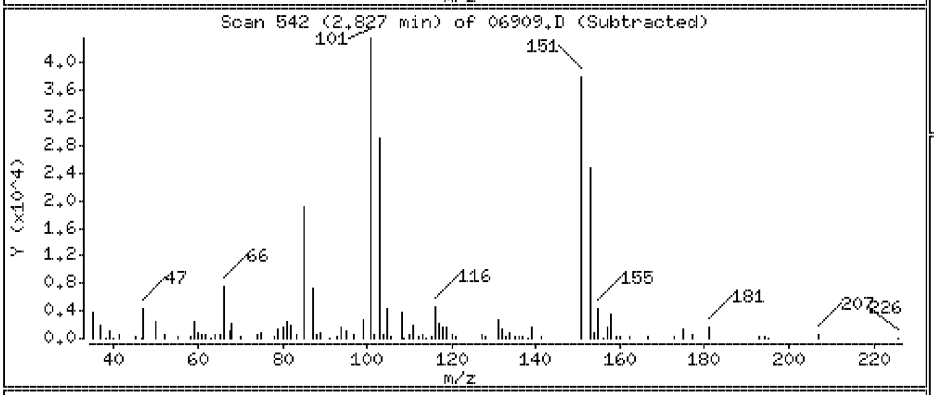
Column phase: J&W DB-5

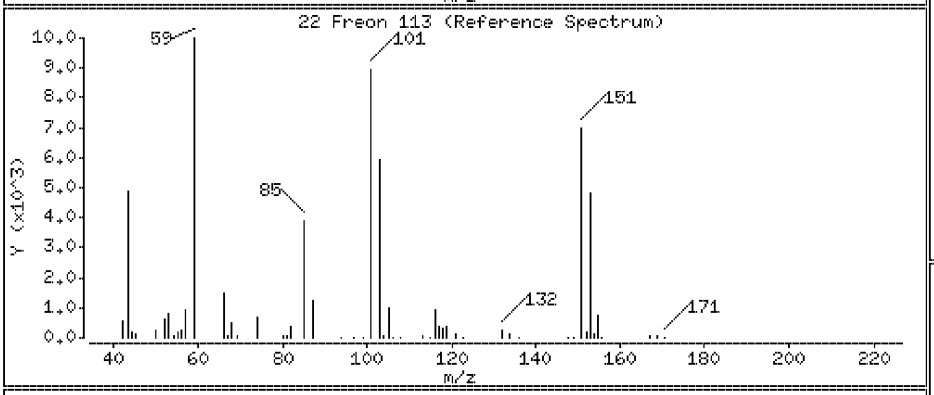
Column diameter: 0.32

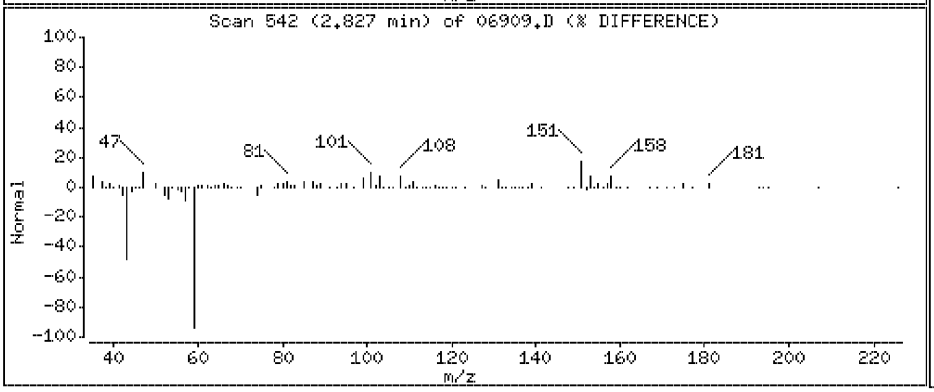
22 Freon 113

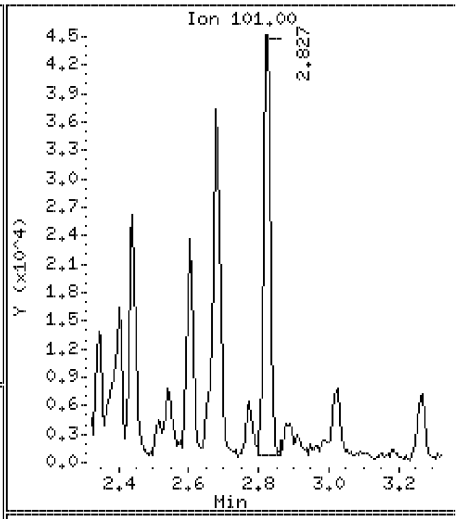
Concentration: 1.56 ppbv

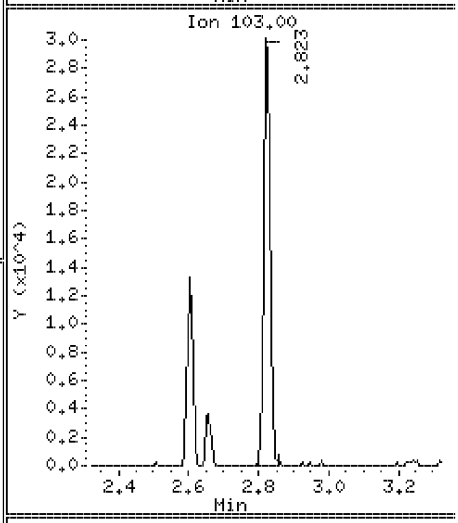


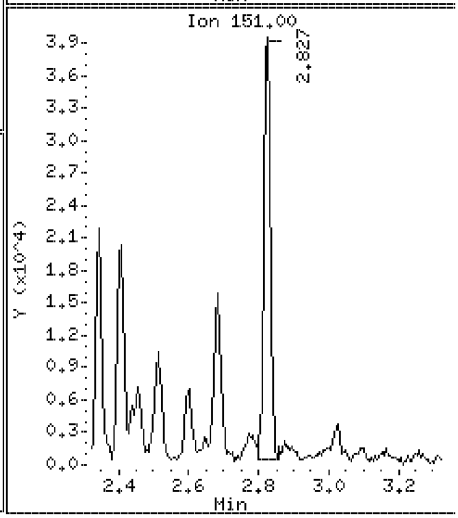












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

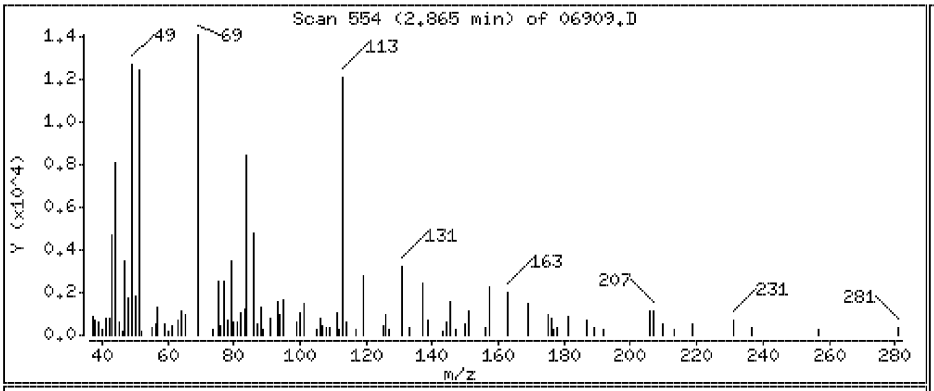
Operator: DR1

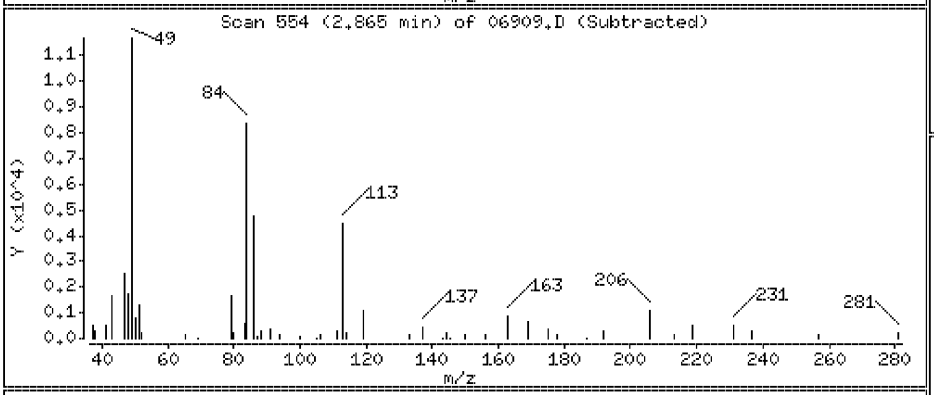
Column phase: J&W DB-5

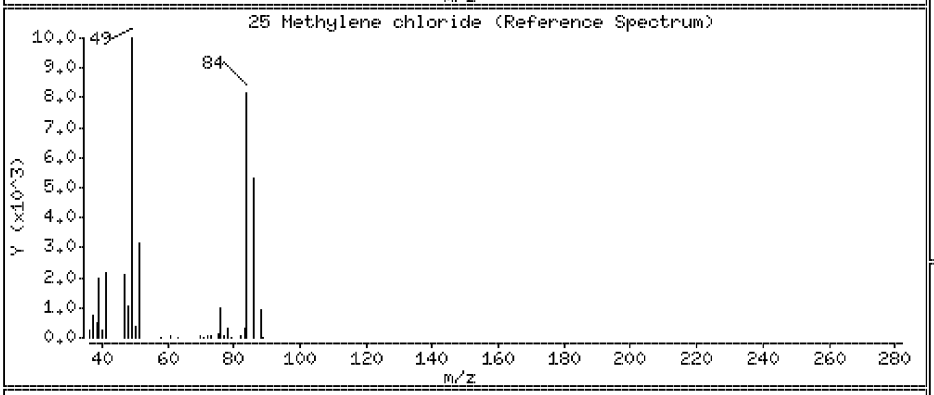
Column diameter: 0.32

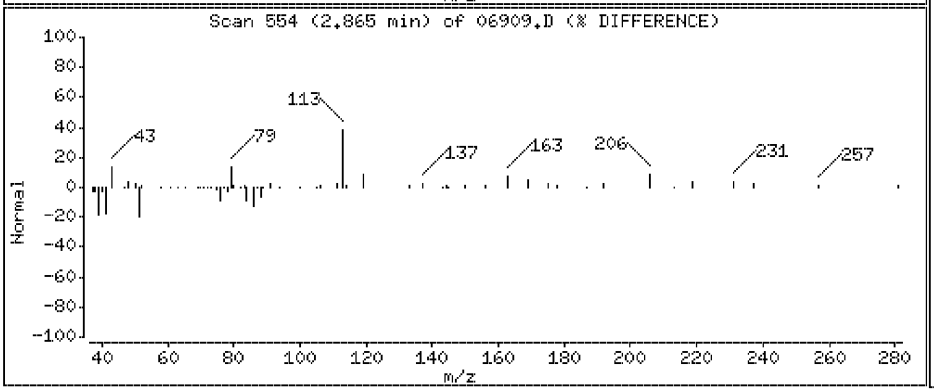
25 Methylene chloride

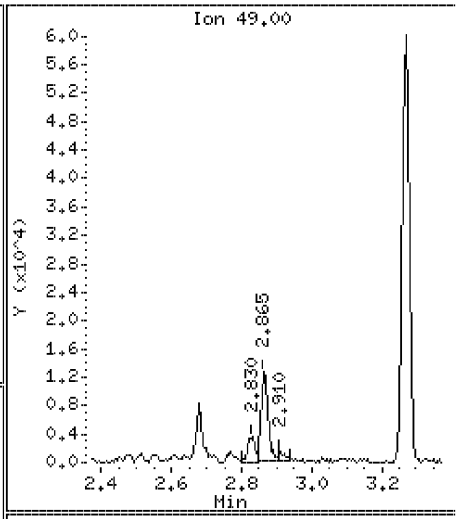
Concentration: 0.223 ppbv

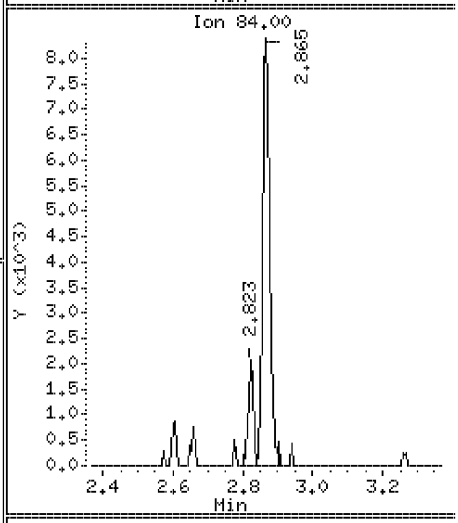


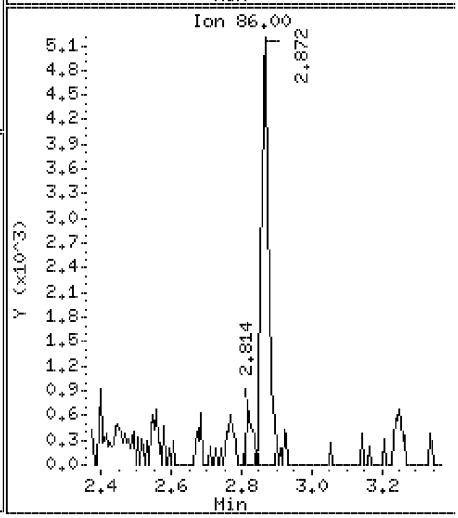












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

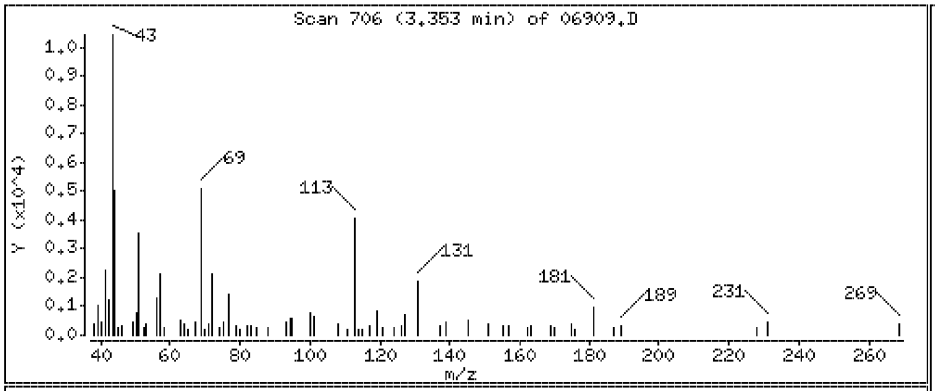
Operator: DR1

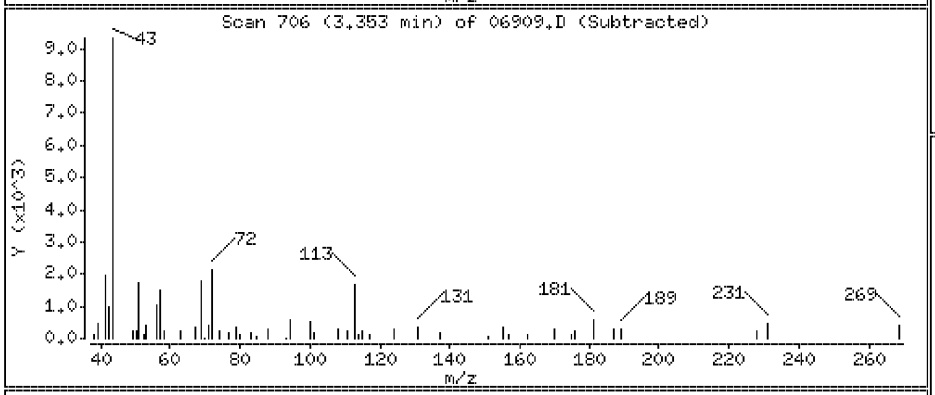
Column phase: J&W DB-5

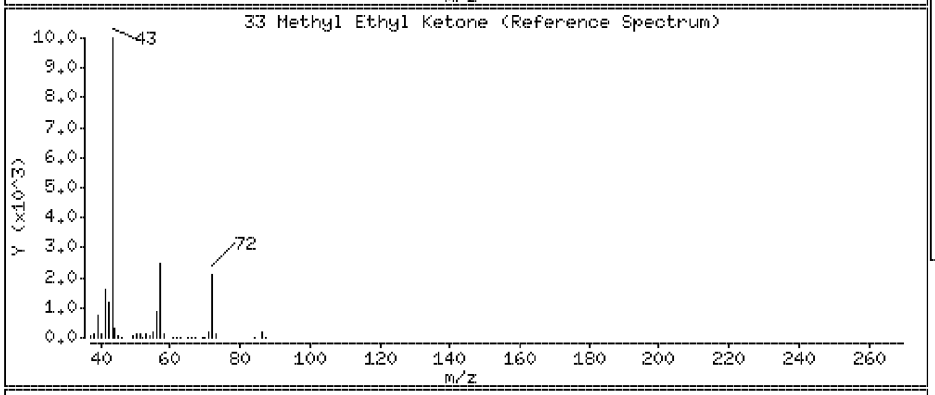
Column diameter: 0.32

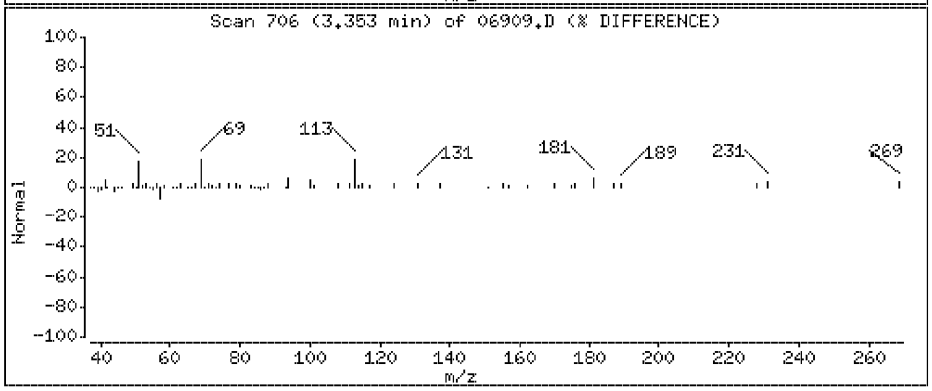
33 Methyl Ethyl Ketone

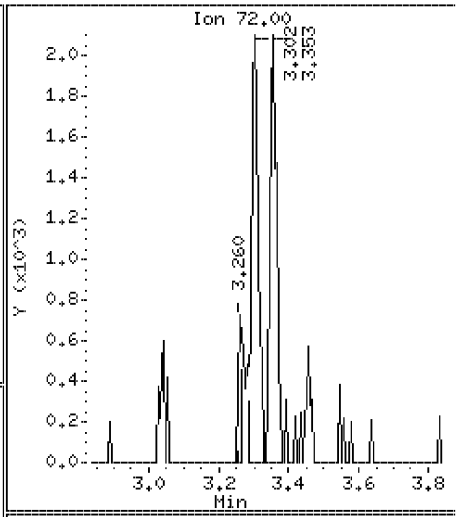
Concentration: 0.403 ppbv

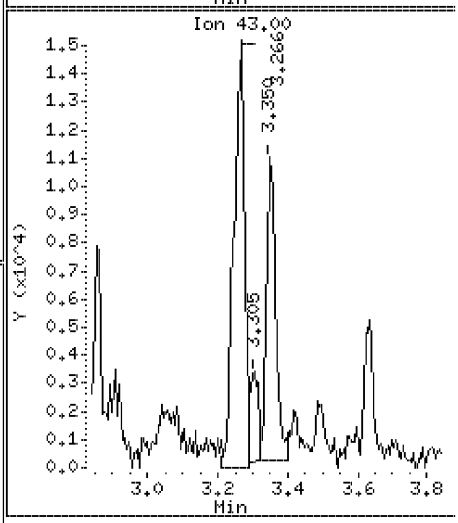












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

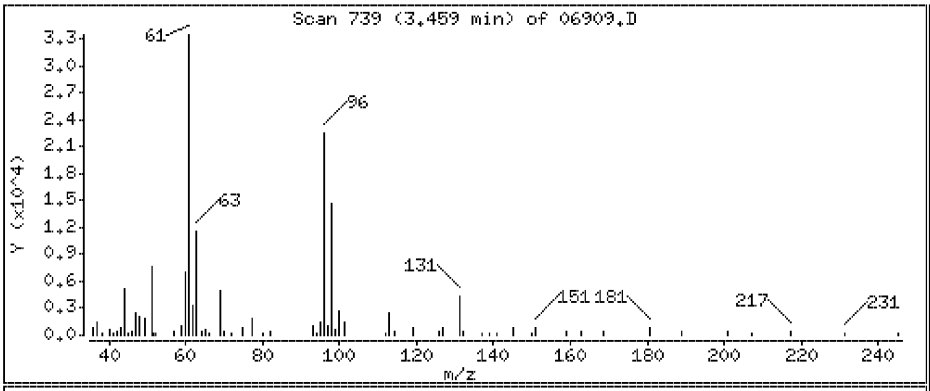
Operator: DR1

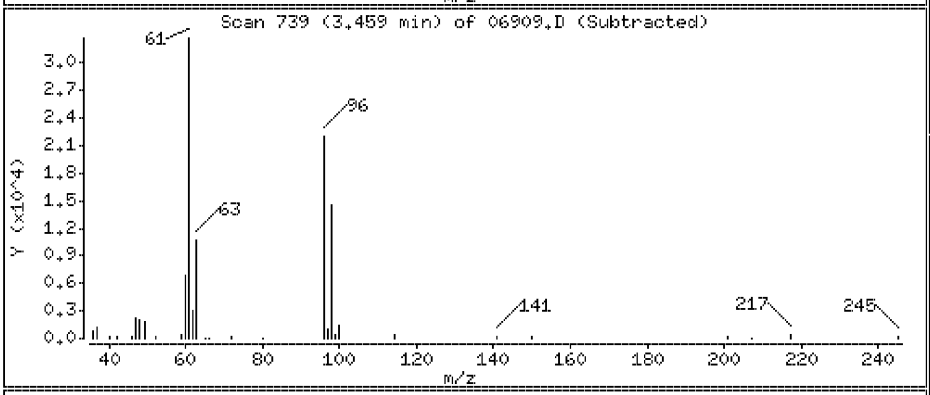
Column phase: J&W DB-5

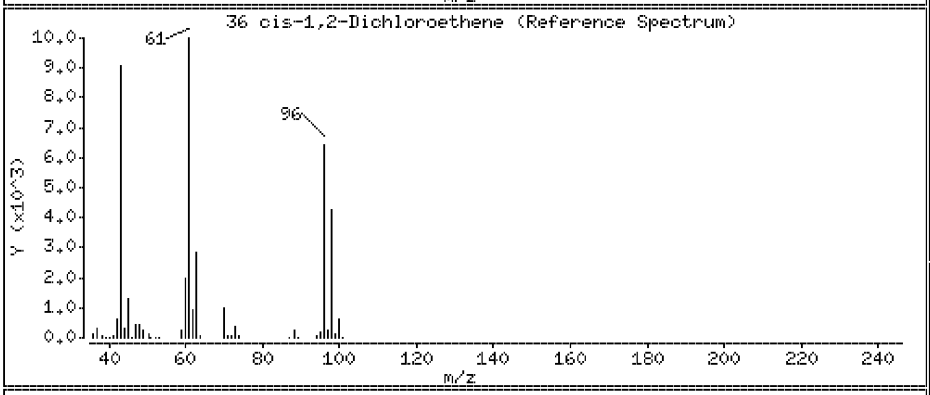
Column diameter: 0.32

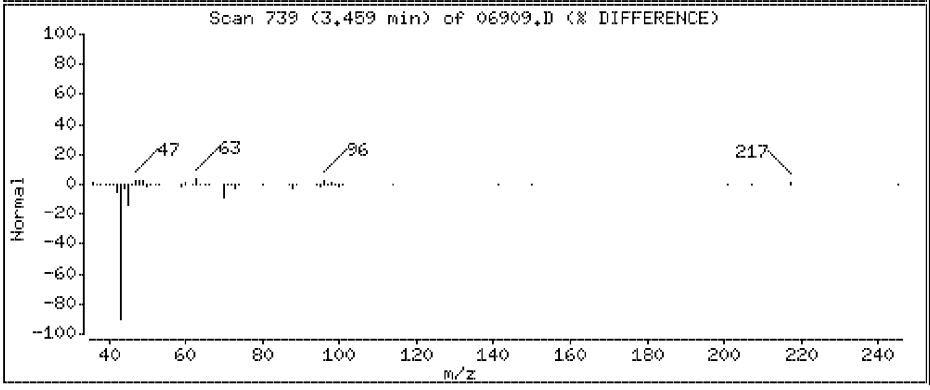
36 cis-1,2-Dichloroethene

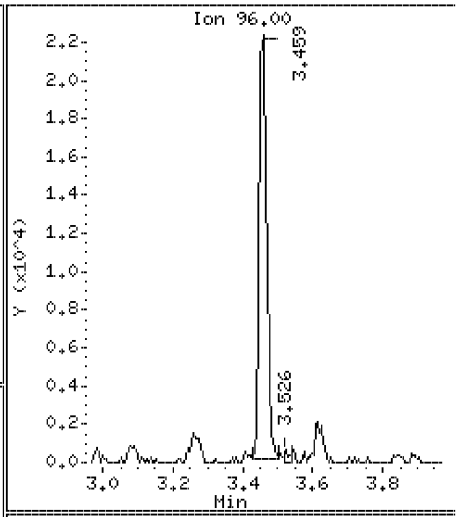
Concentration: 2.12 ppbv

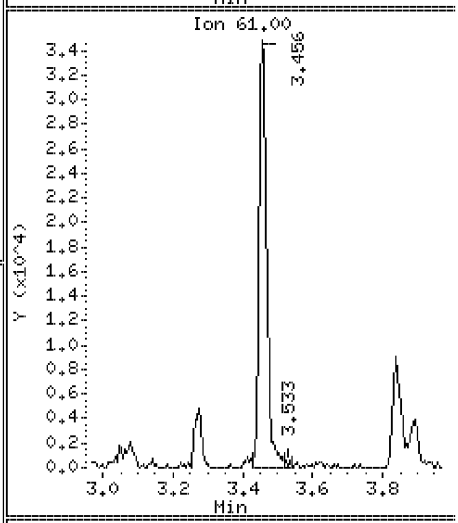


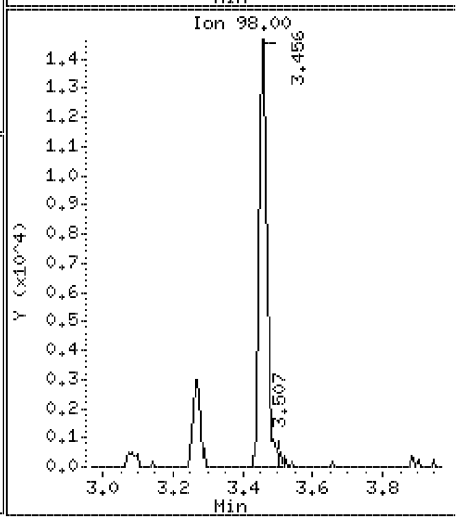












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

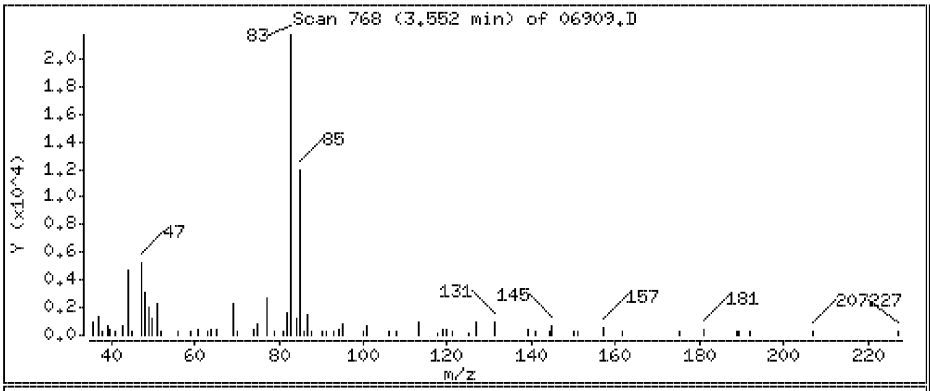
Operator: DR1

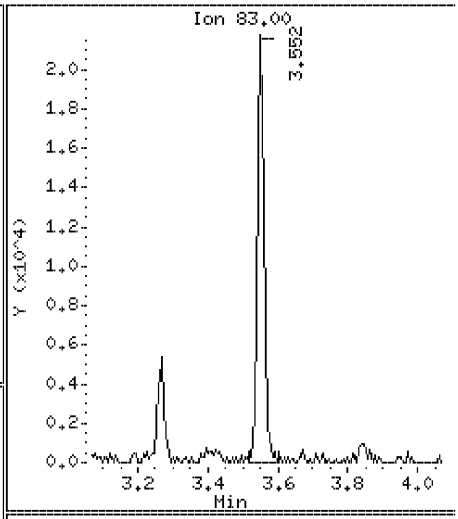
Column phase: J&W DB-5

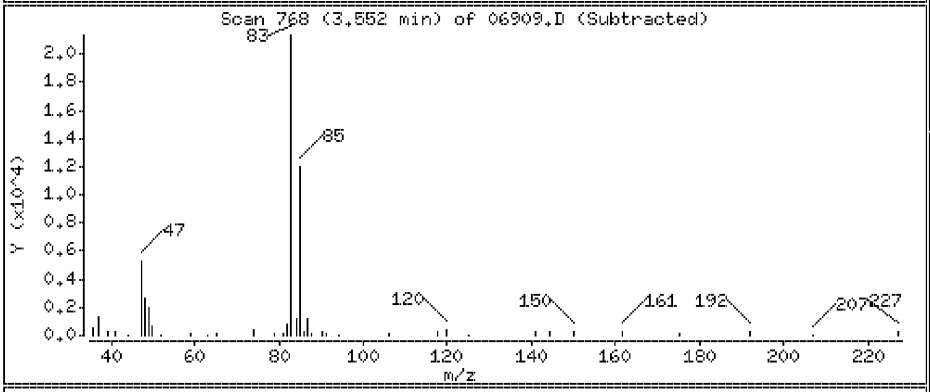
Column diameter: 0.32

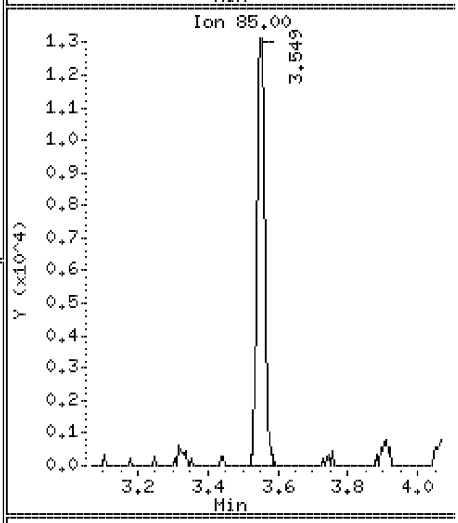
39 Chloroform

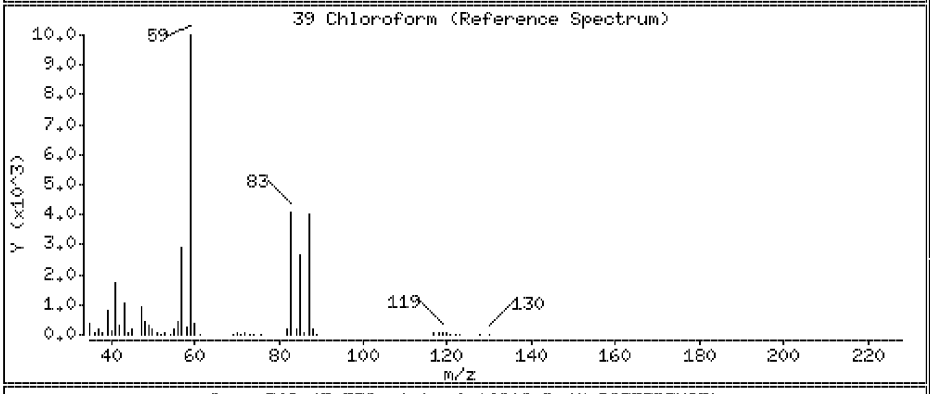
Concentration: 0.760 ppbv

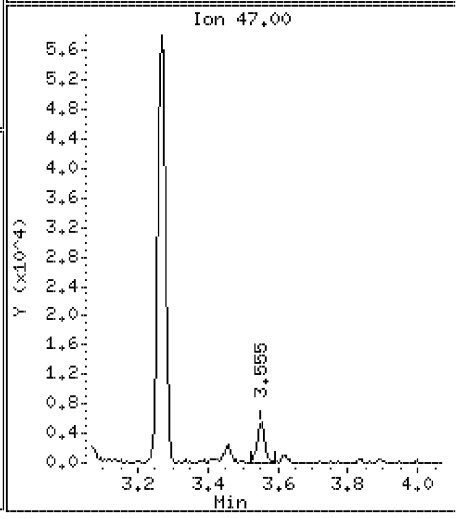


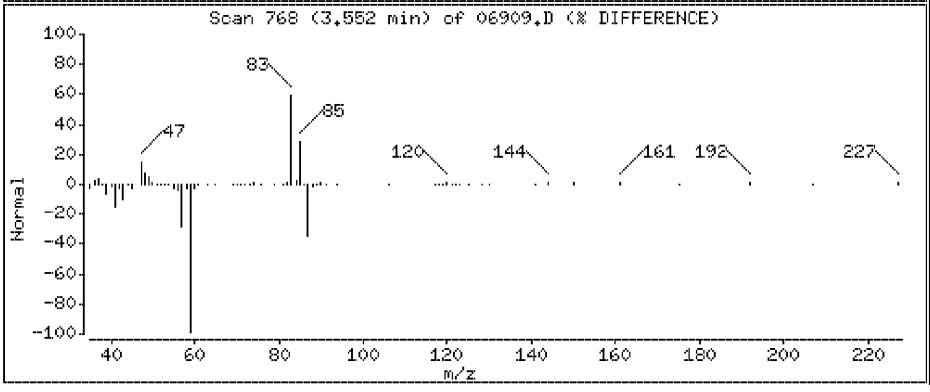












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

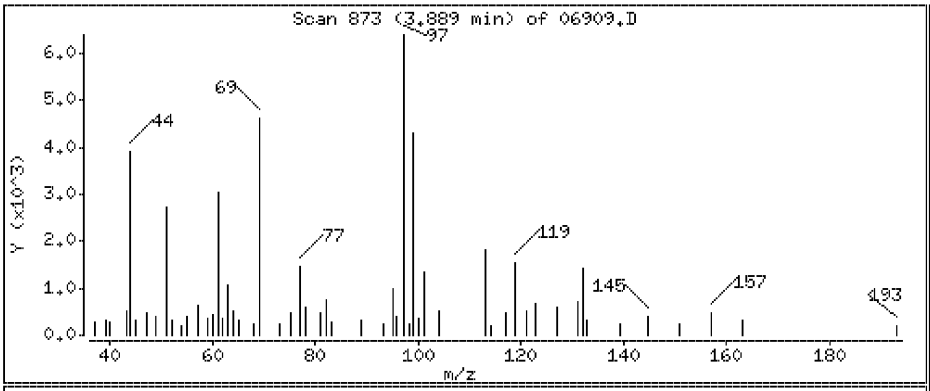
Operator: DR1

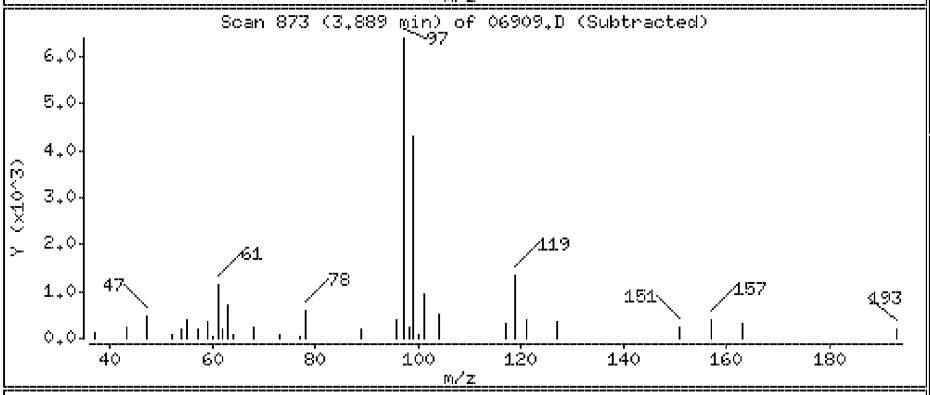
Column phase: J&W DB-5

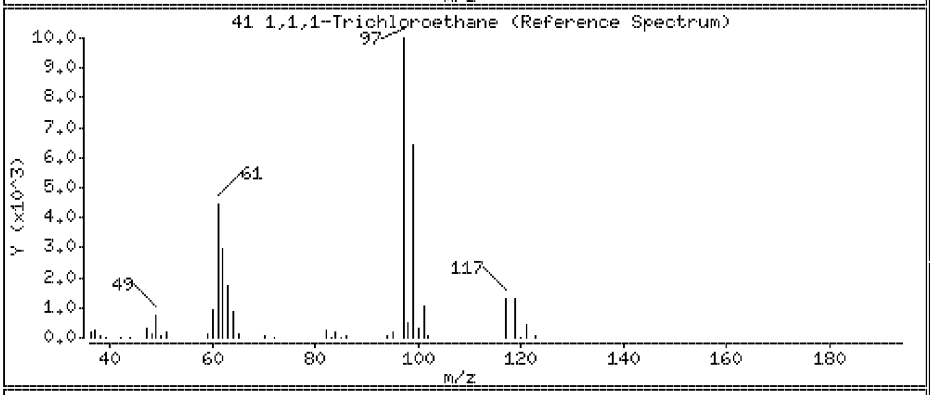
Column diameter: 0.32

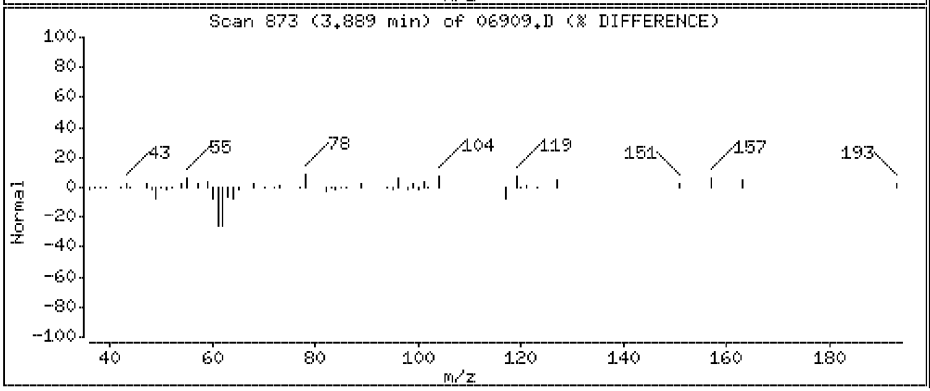
41 1,1,1-Trichloroethane

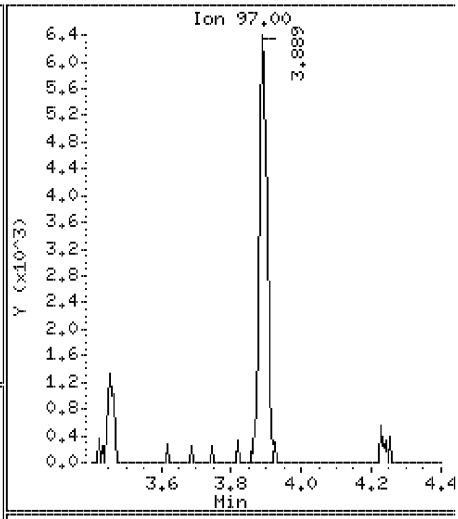
Concentration: 0.242 ppbv

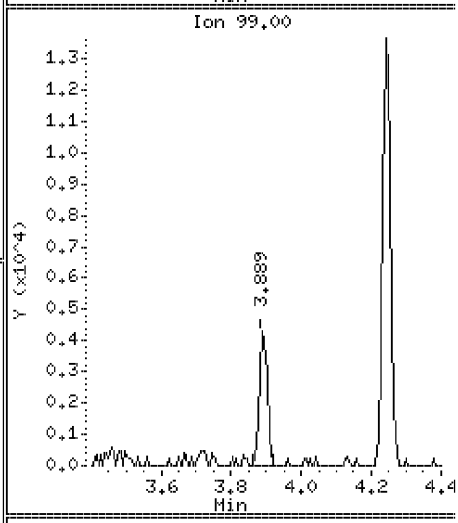


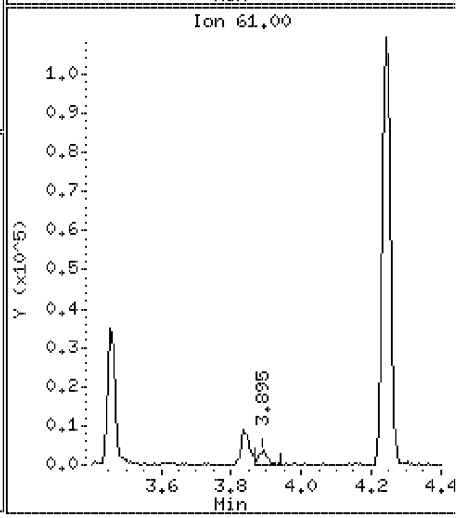












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

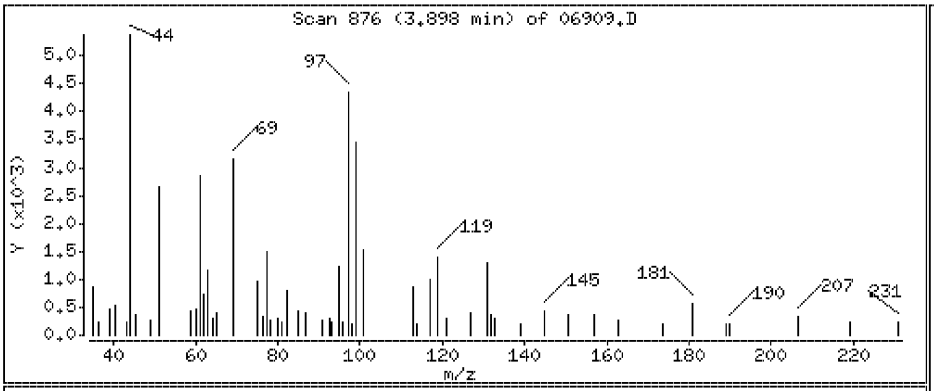
Operator: DR1

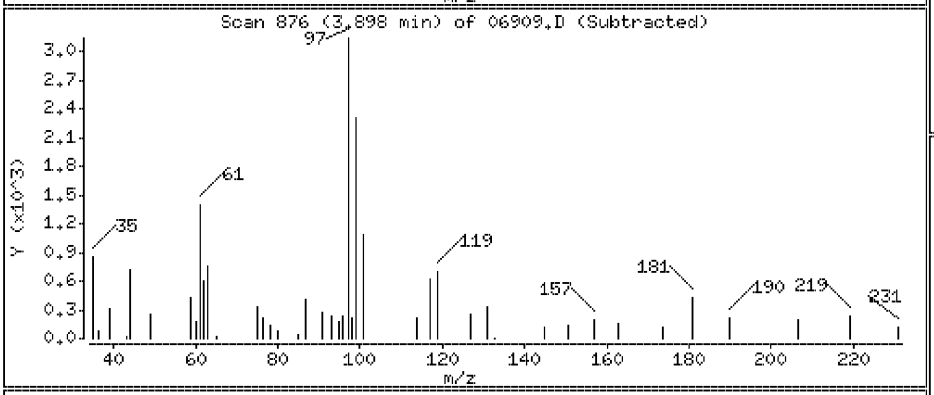
Column phase: J&W DB-5

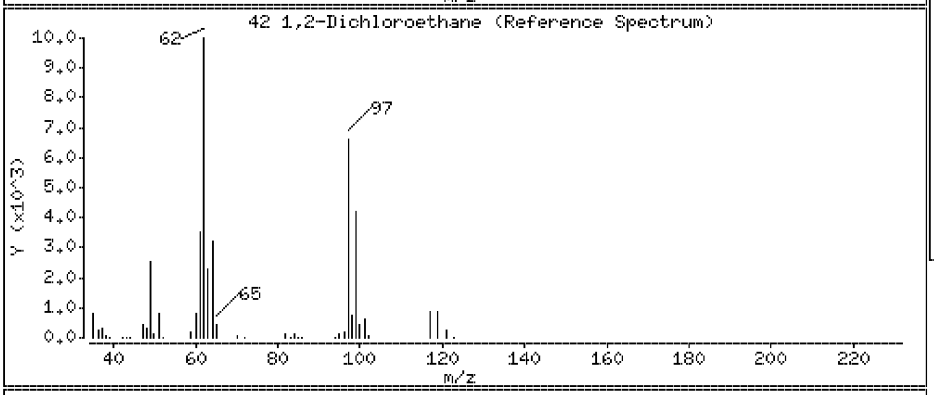
Column diameter: 0.32

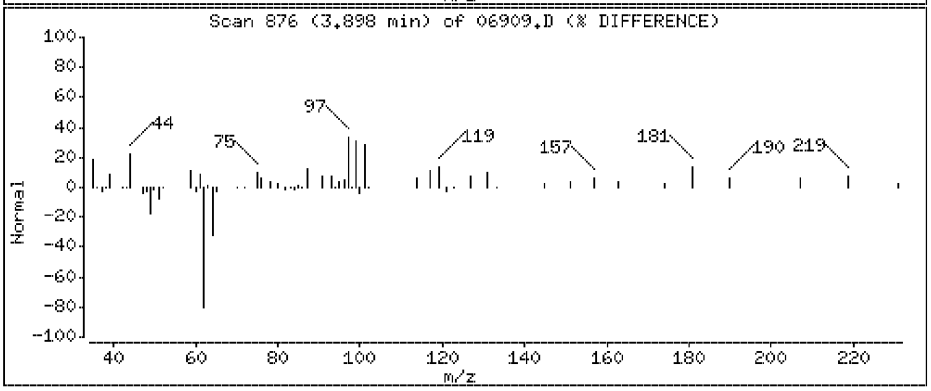
42 1,2-Dichloroethane

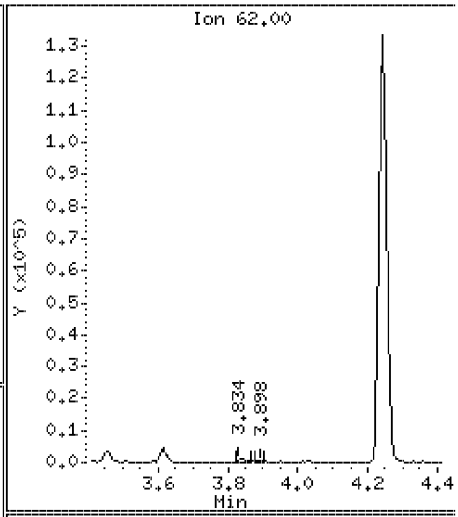
Concentration: 0.0226 ppbv

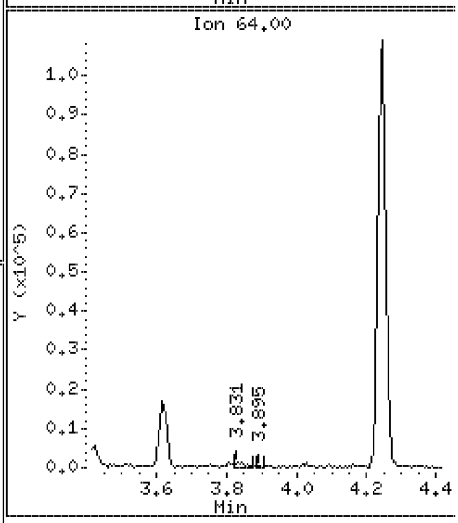












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

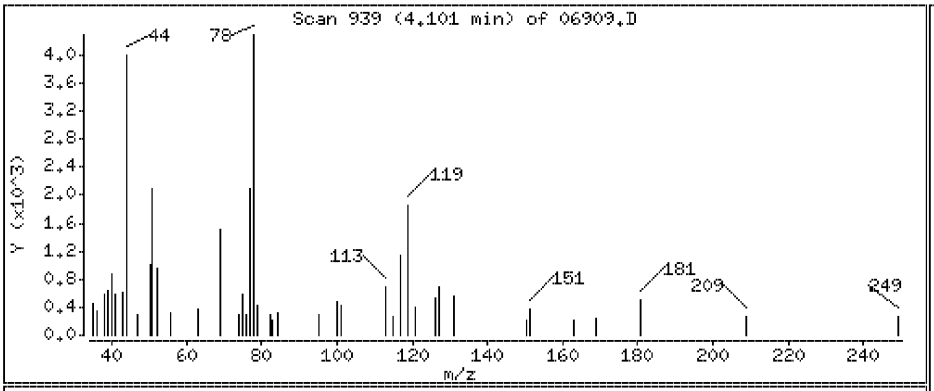
Operator: DR1

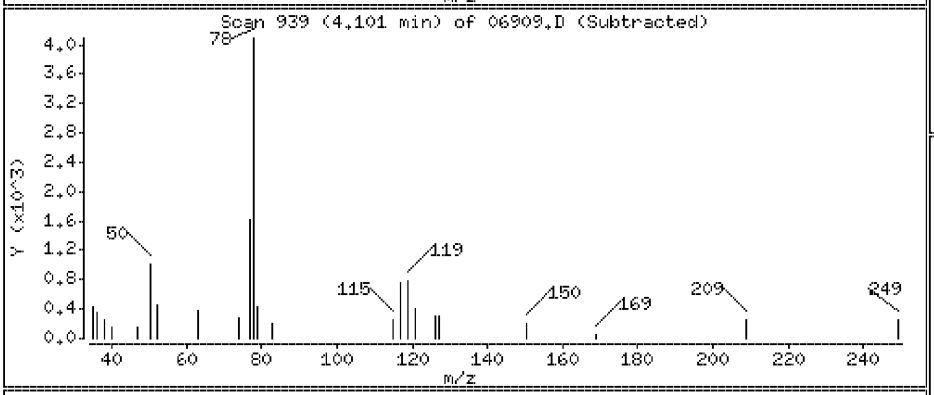
Column phase: J&W DB-5

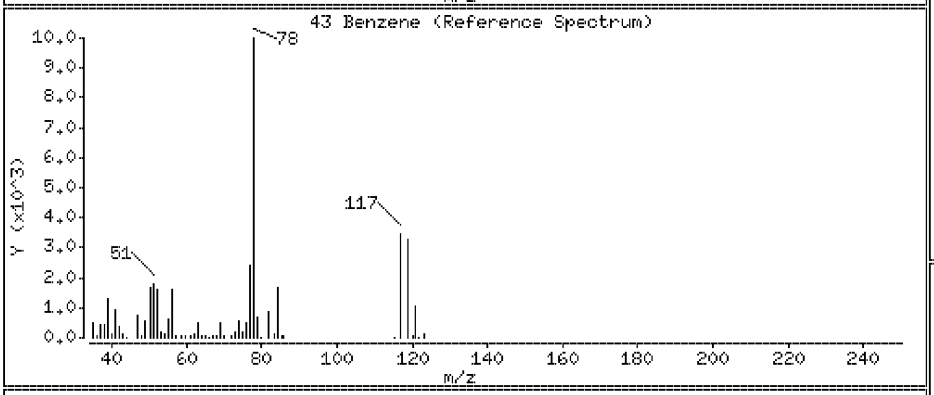
Column diameter: 0.32

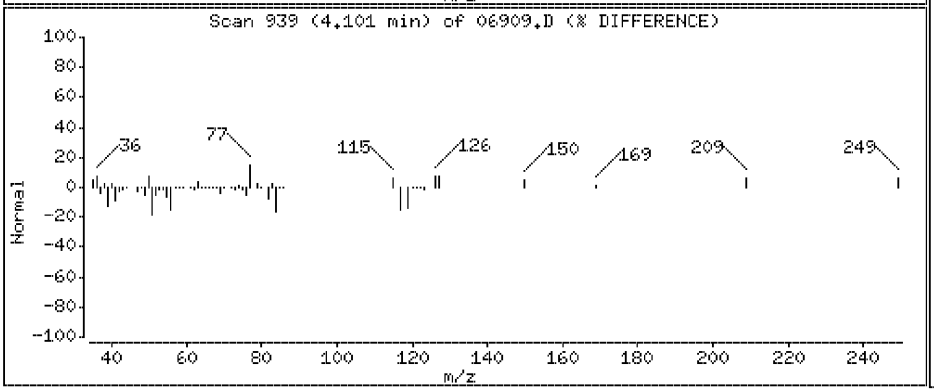
43 Benzene

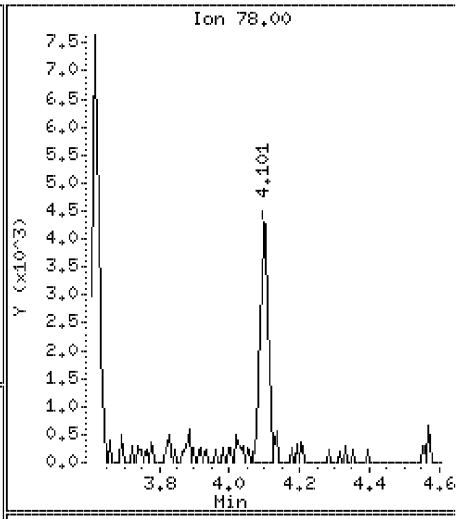
Concentration: 0.146 ppbv

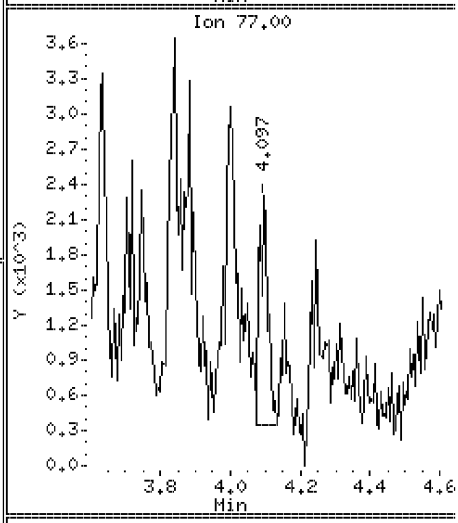


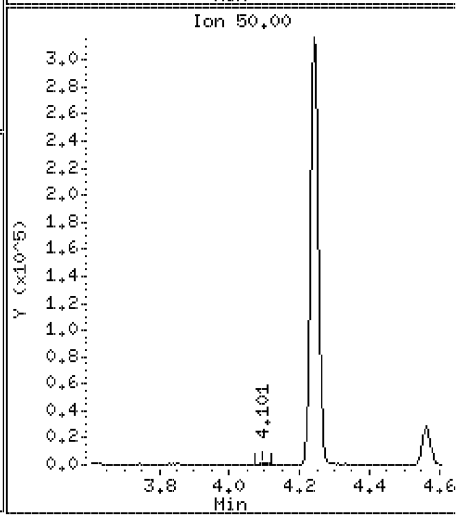












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

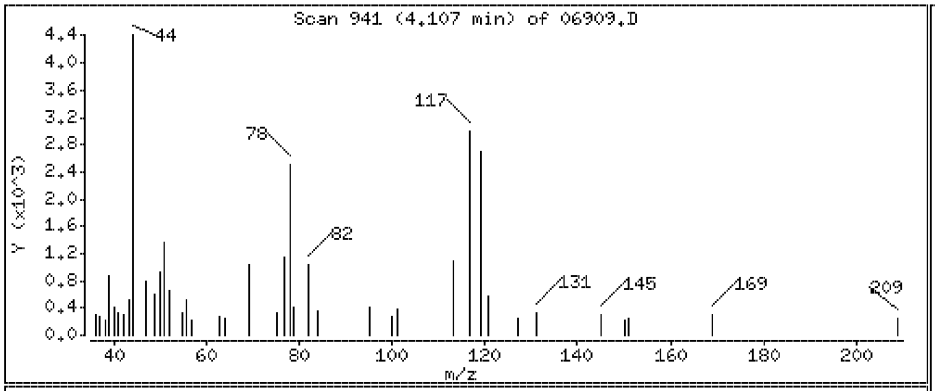
Operator: DR1

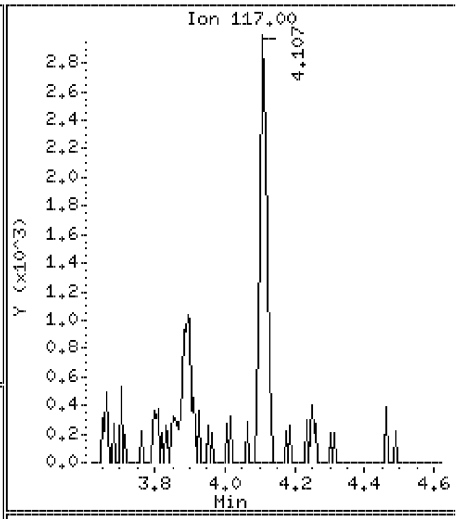
Column phase: J&W DB-5

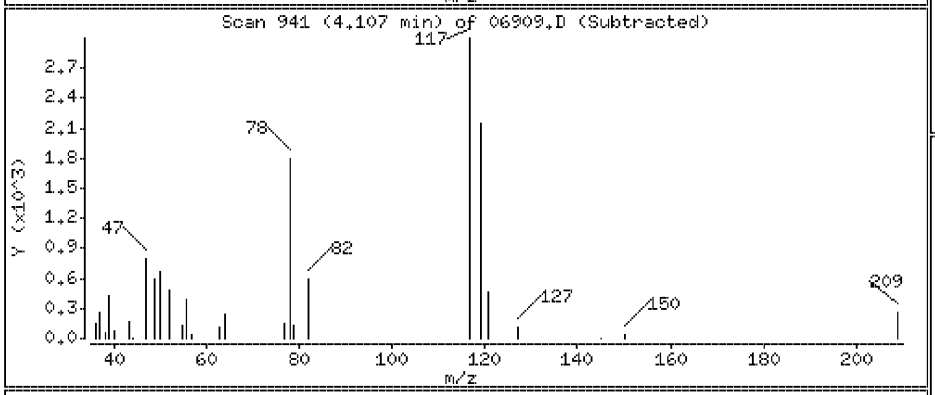
Column diameter: 0.32

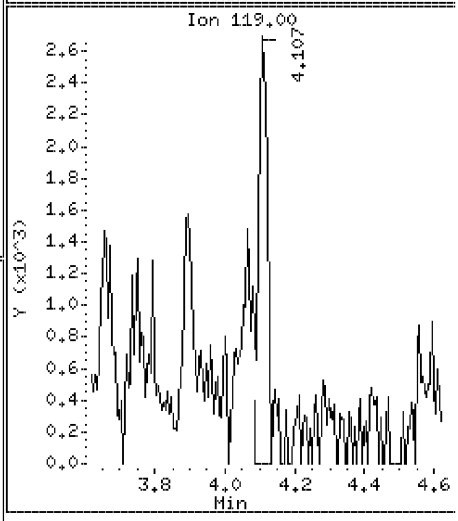
45 Carbon tetrachloride

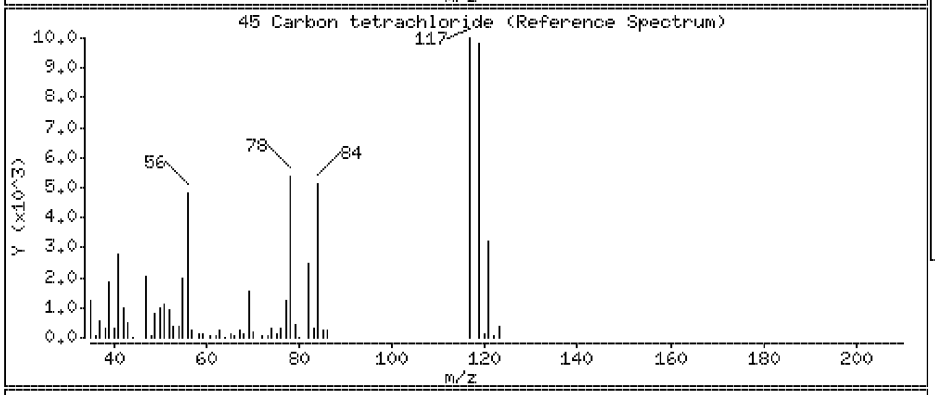
Concentration: 0.110 ppbv

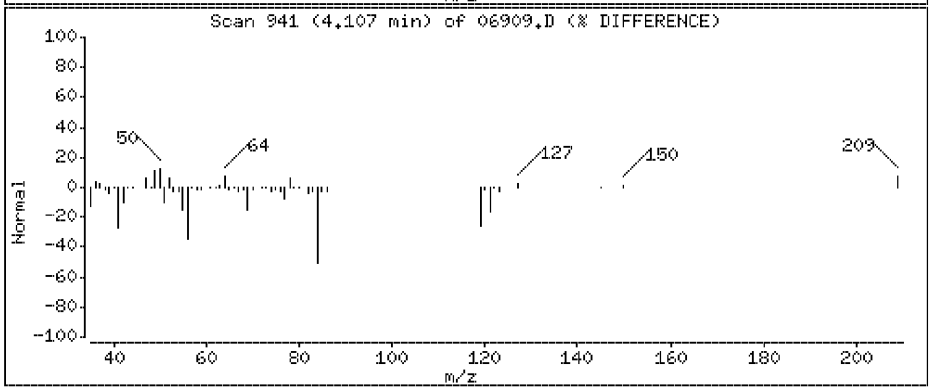












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

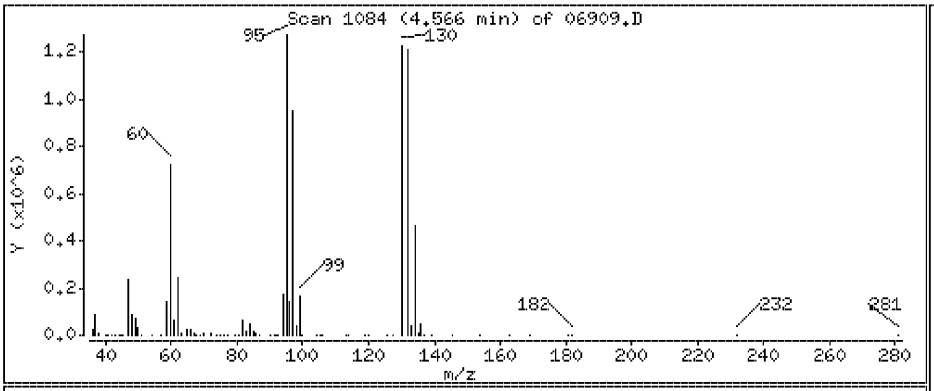
Operator: DR1

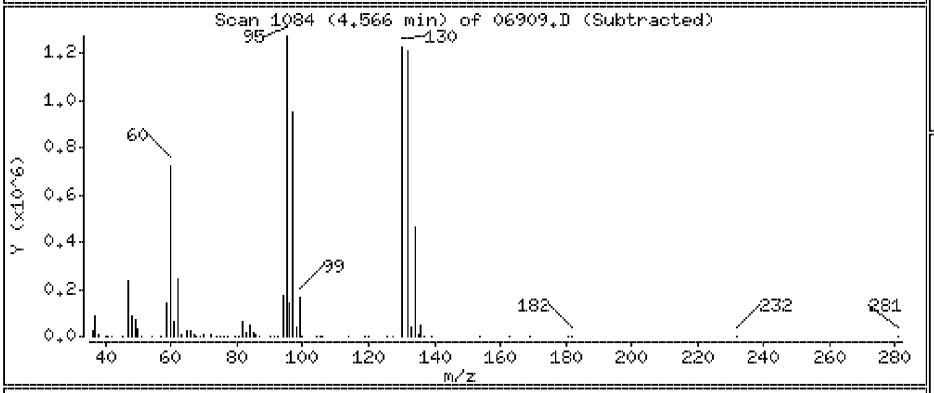
Column phase: J&W DB-5

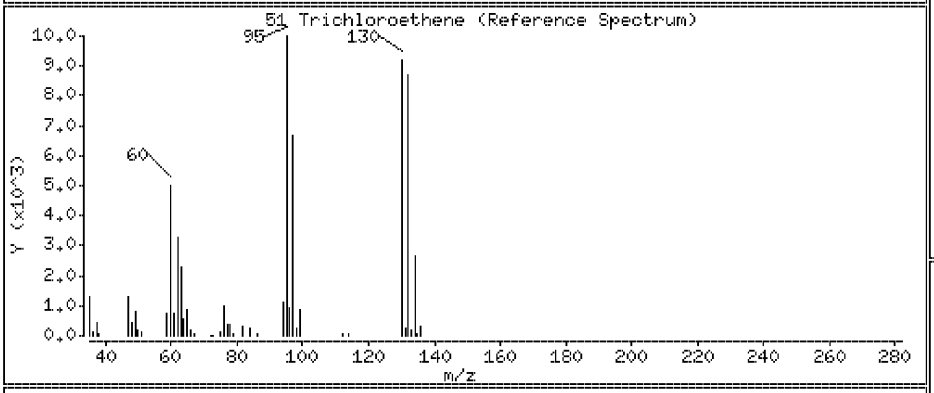
Column diameter: 0.32

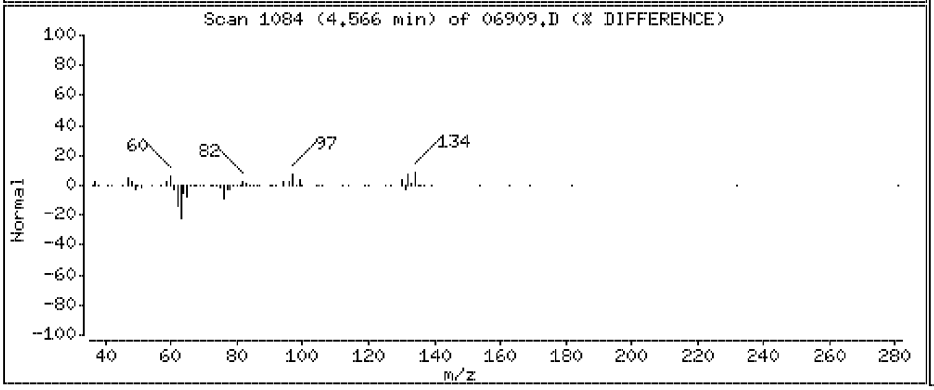
51 Trichloroethene

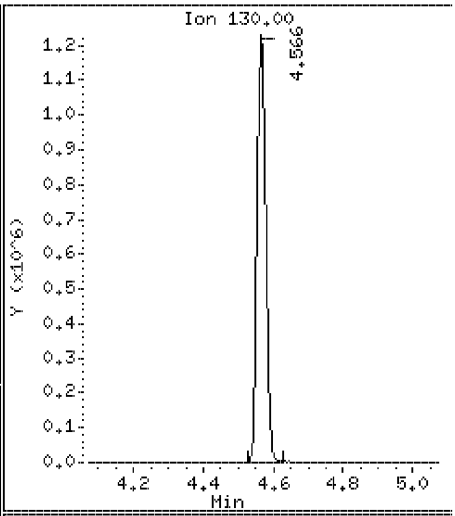
Concentration: 86.0 ppbv

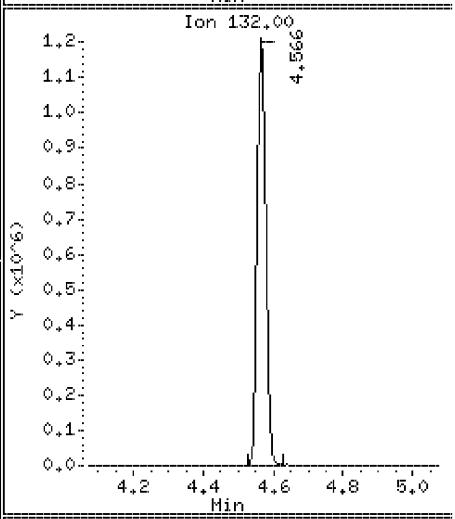


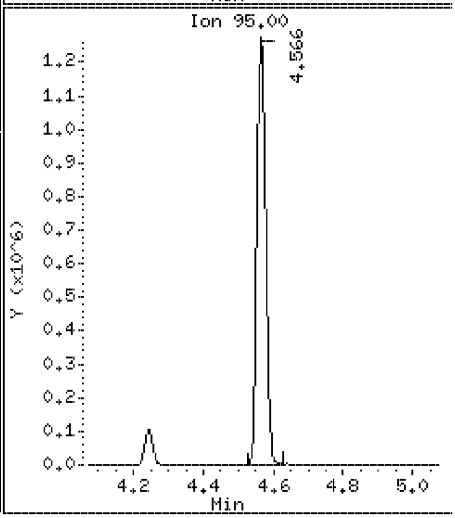












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

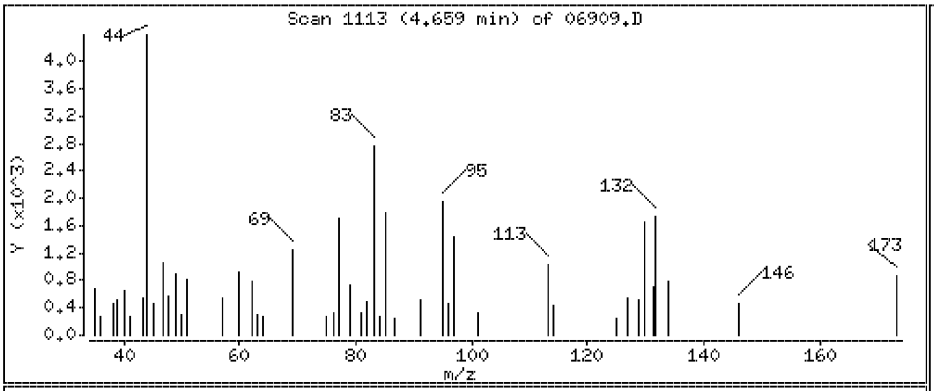
Operator: DR1

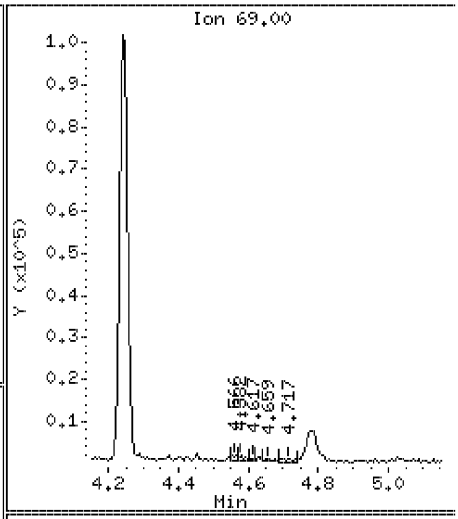
Column phase: J&W DB-5

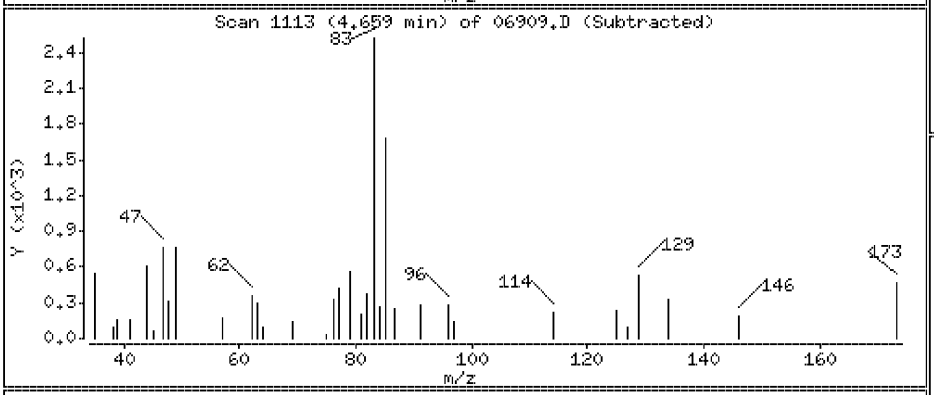
Column diameter: 0.32

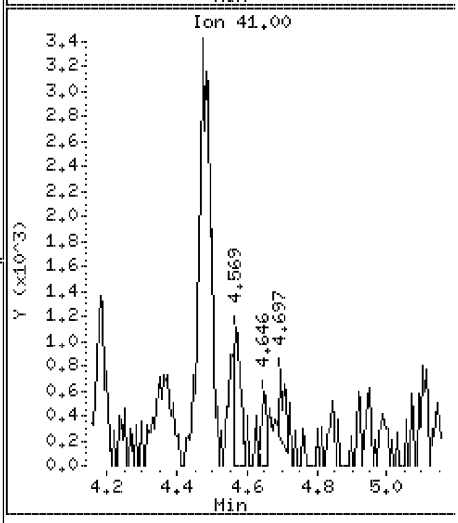
52 Methyl methacrylate

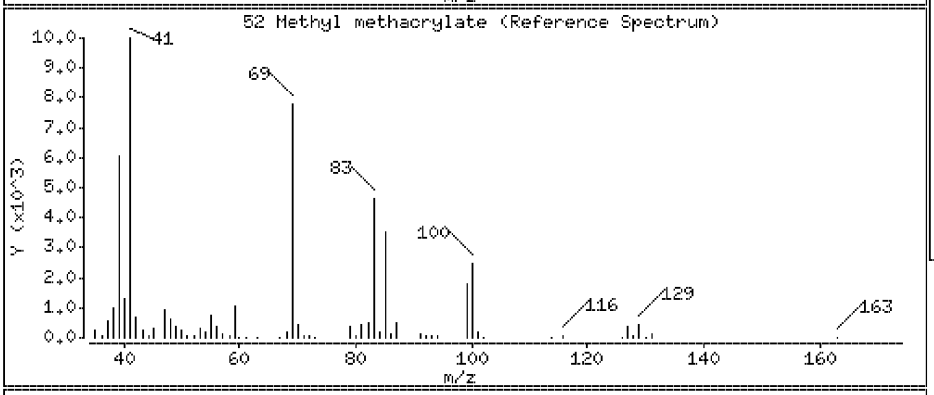
Concentration: 0.0498 ppbv

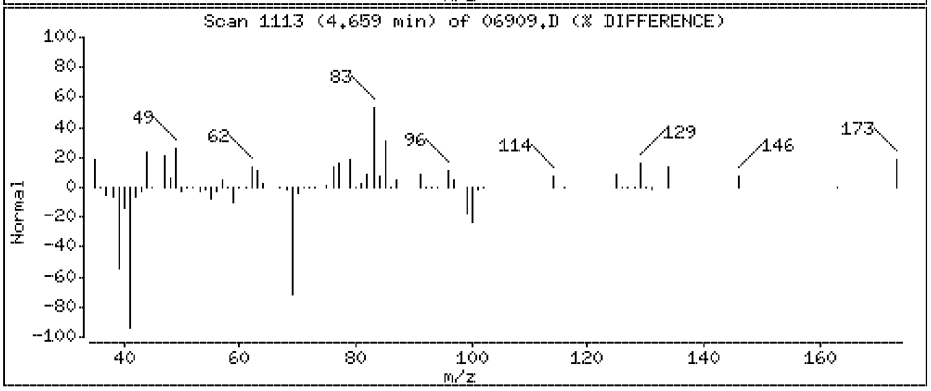












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

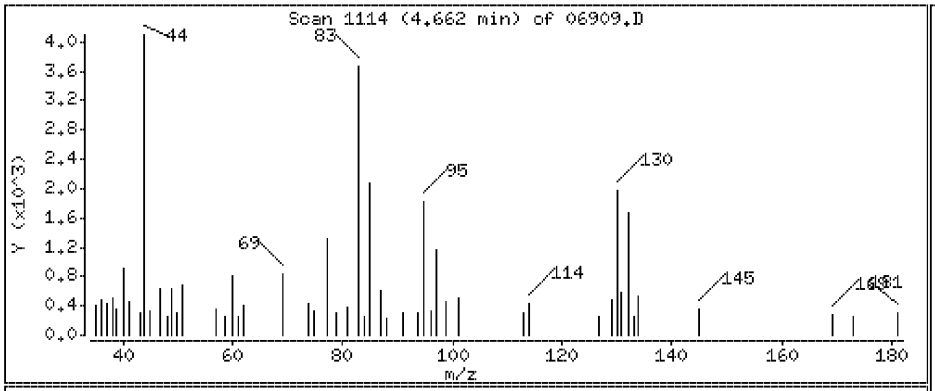
Operator: DR1

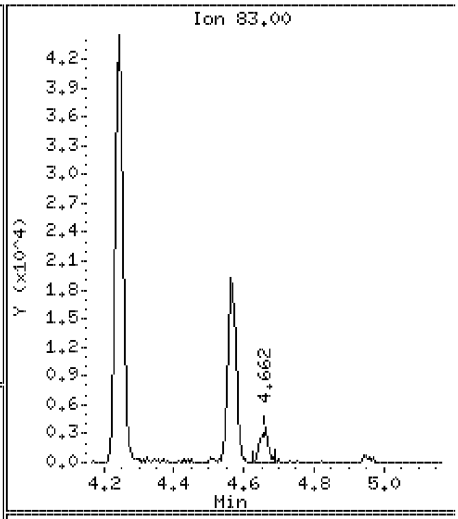
Column phase: J&W DB-5

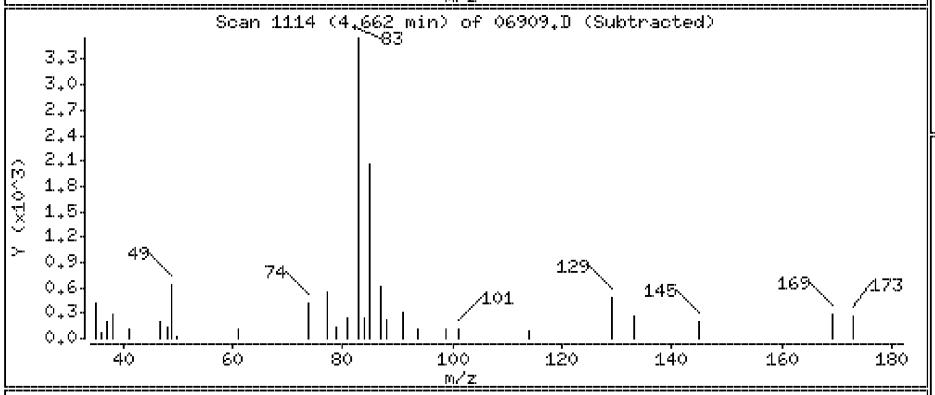
Column diameter: 0.32

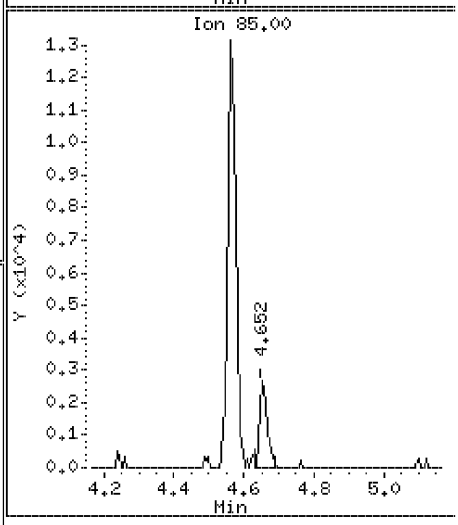
53 Bromodichloromethane

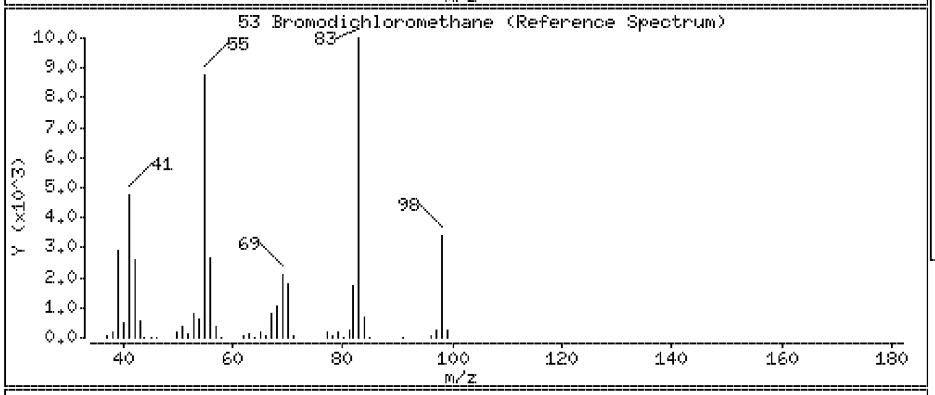
Concentration: 0.131 ppbv

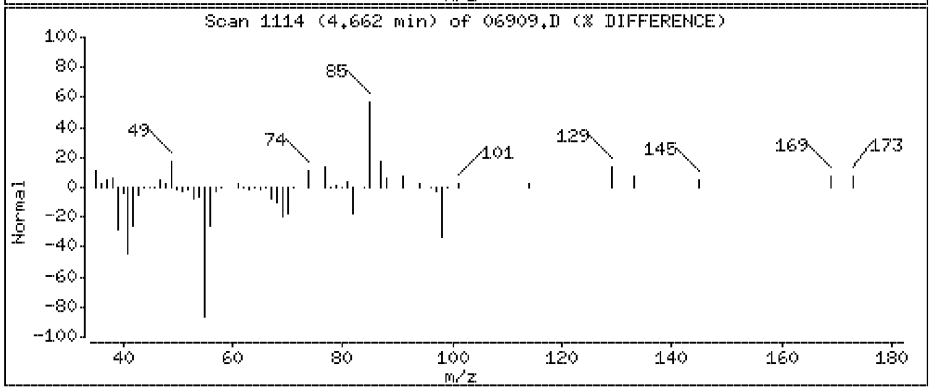












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

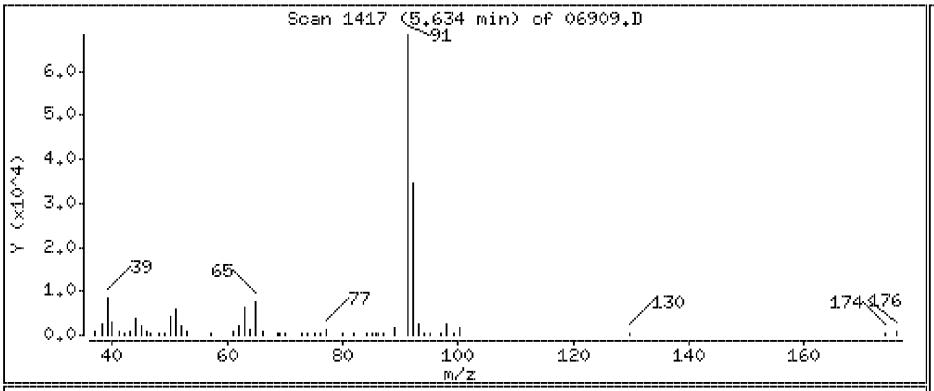
Operator: DR1

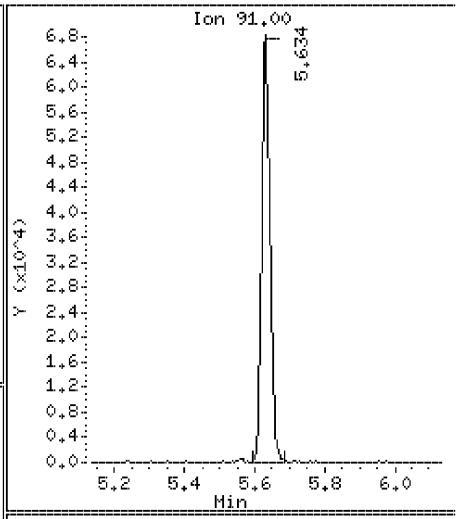
Column phase: J&W DB-5

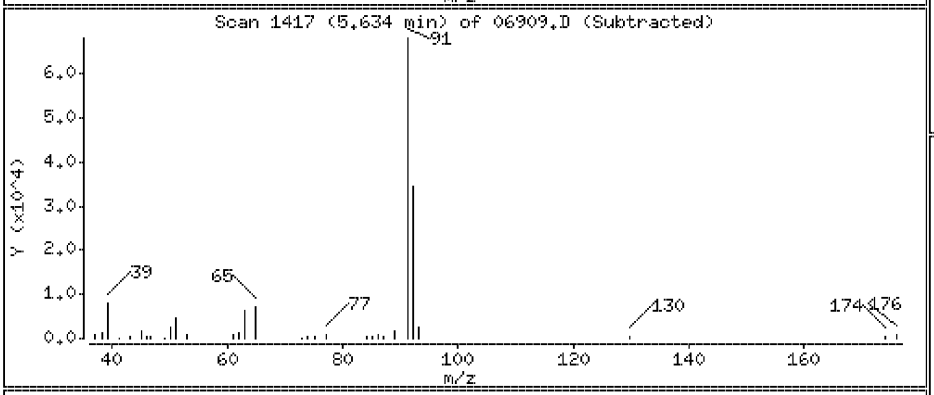
Column diameter: 0.32

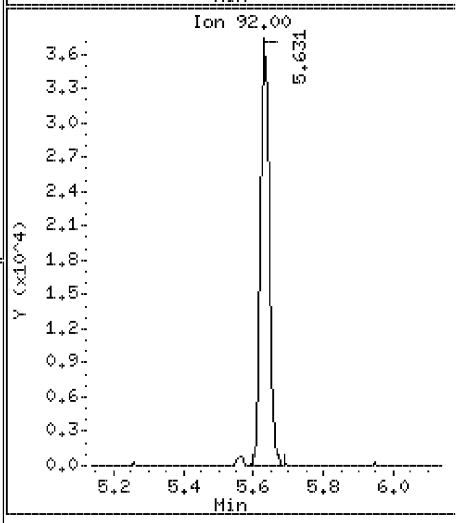
60 Toluene

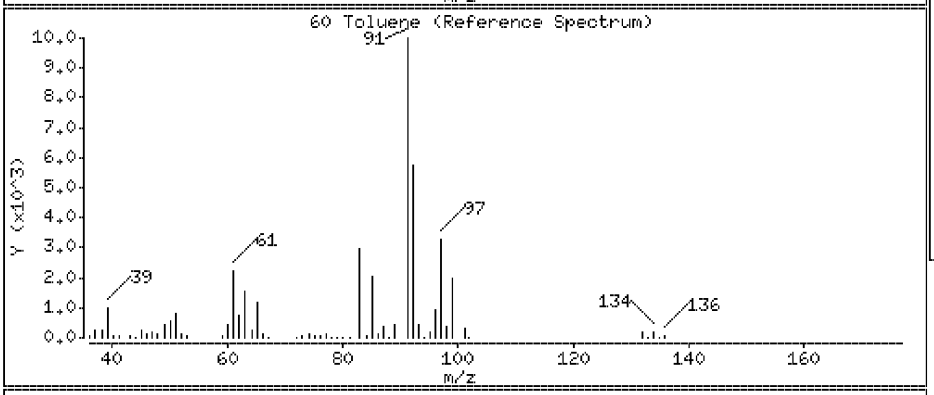
Concentration: 1.84 ppbv

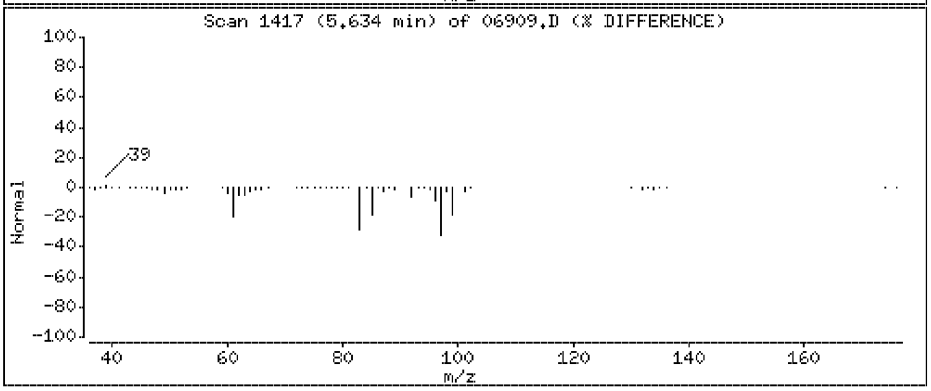












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

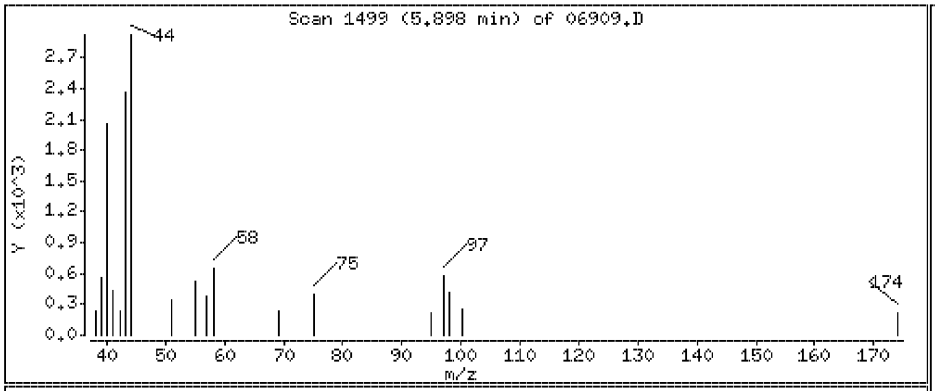
Operator: DR1

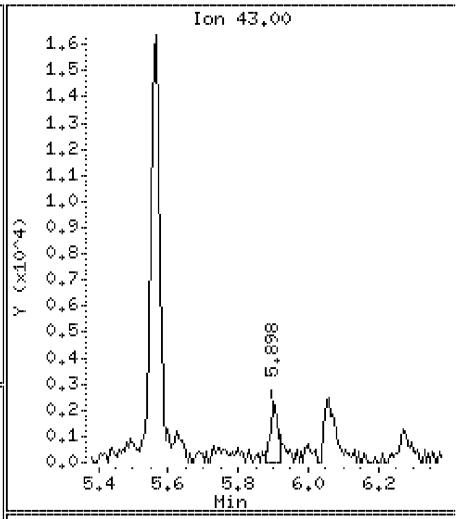
Column phase: J&W DB-5

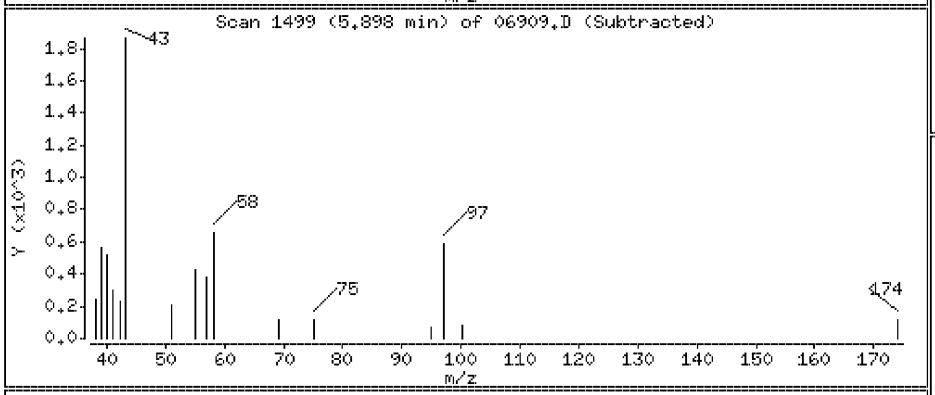
Column diameter: 0.32

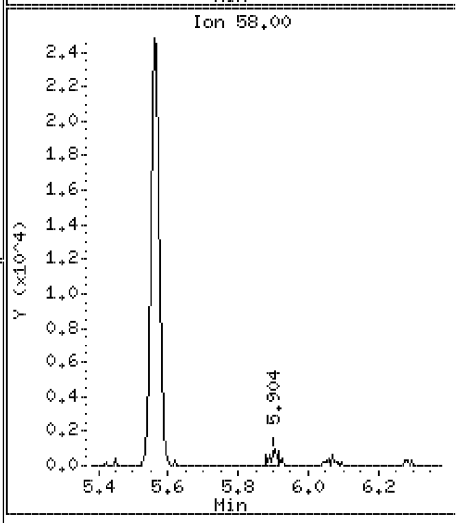
62 Methyl Butyl Ketone

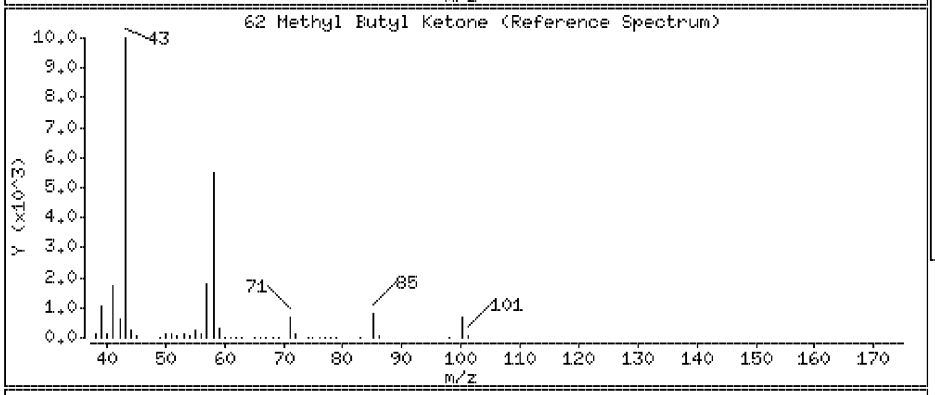
Concentration: 0.0831 ppbv

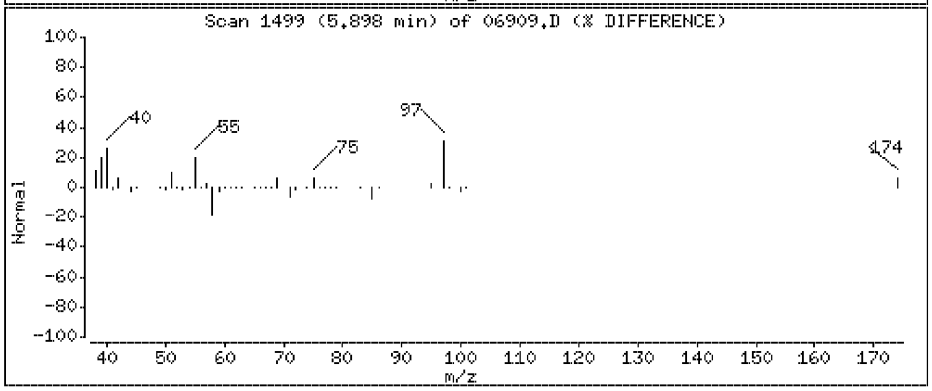












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

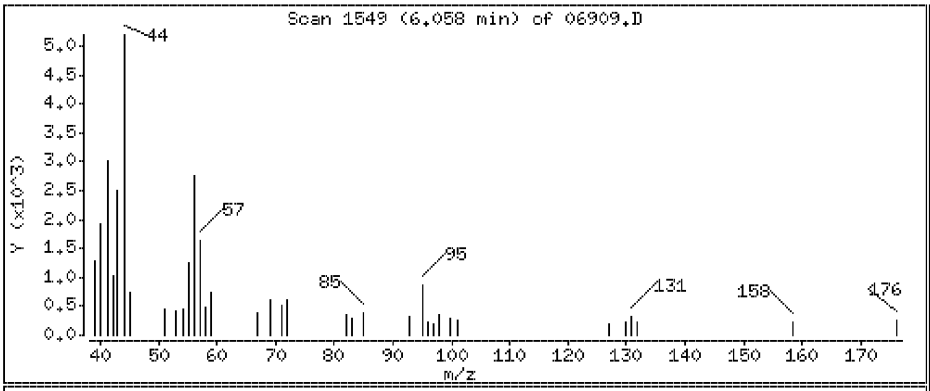
Operator: DR1

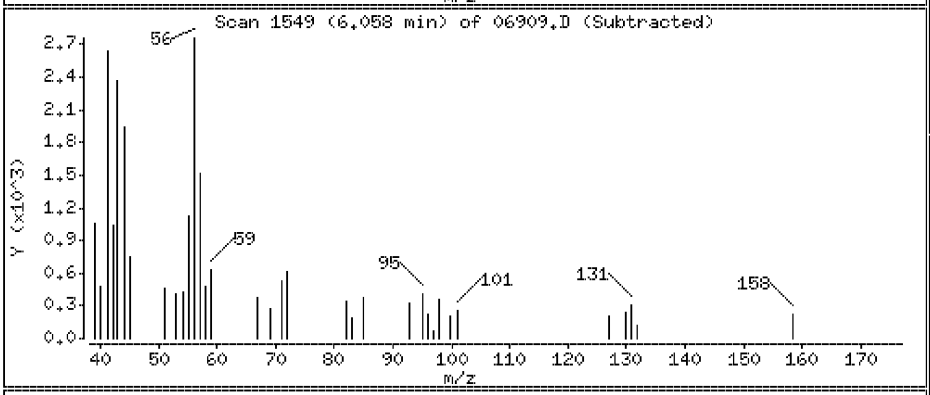
Column phase: J&W DB-5

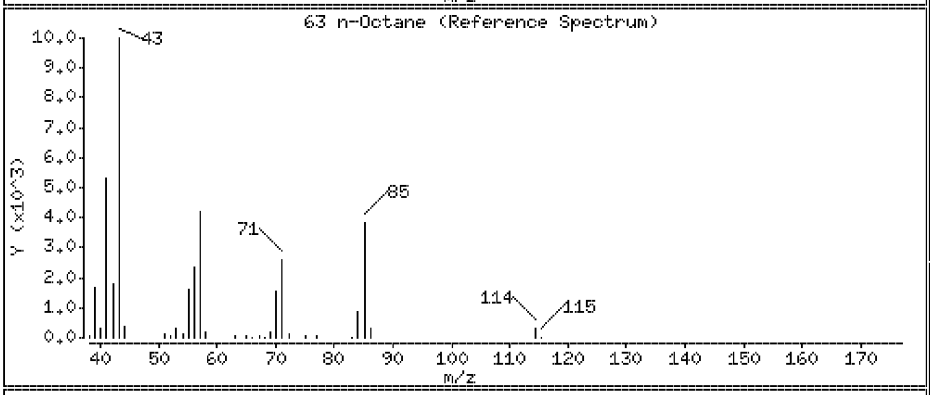
Column diameter: 0.32

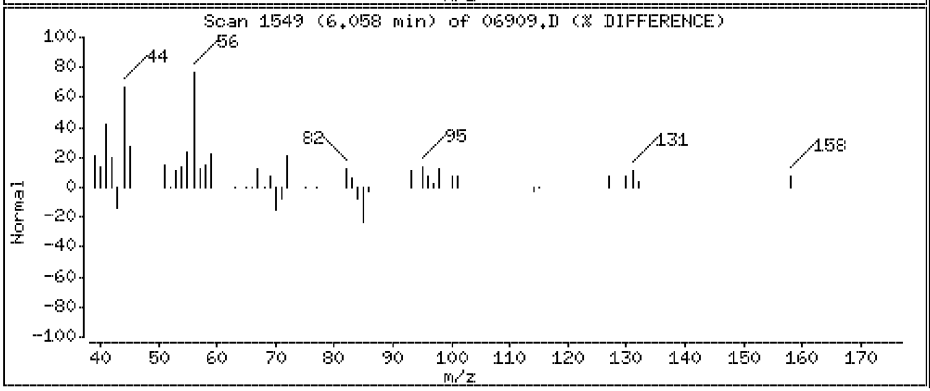
63 n-Octane

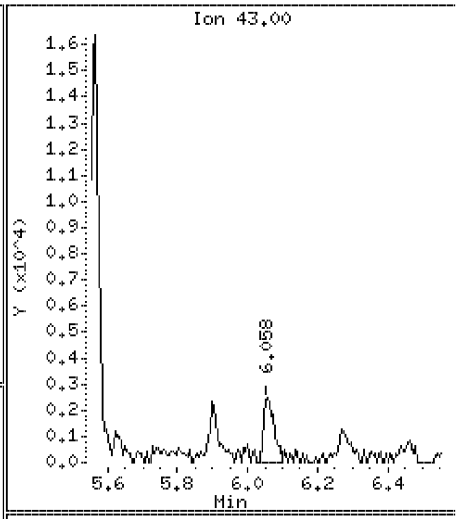
Concentration: 0.128 ppbv

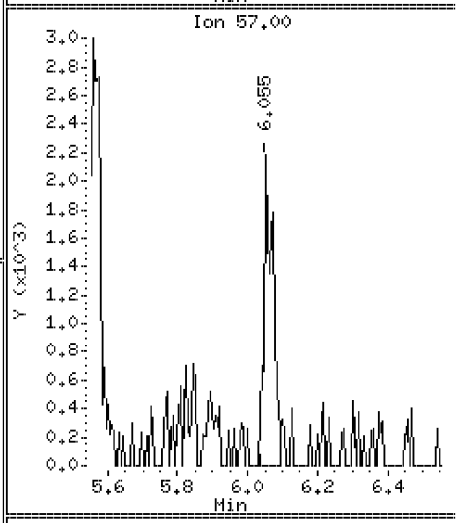


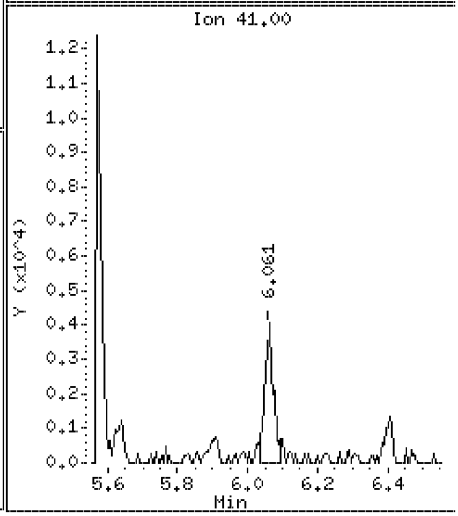












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

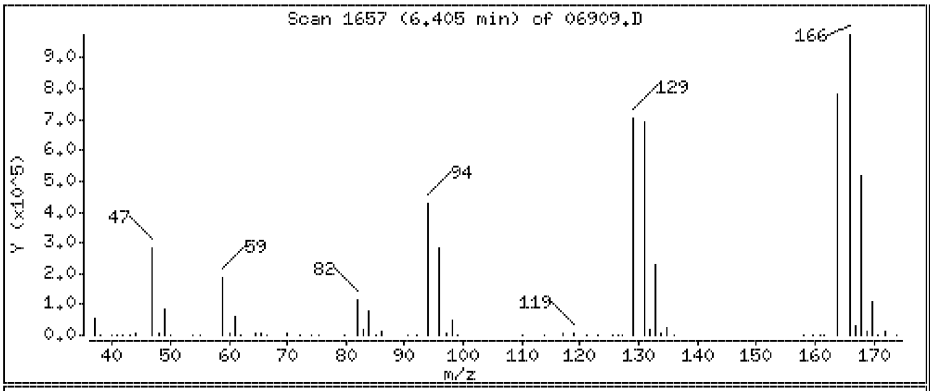
Operator: DR1

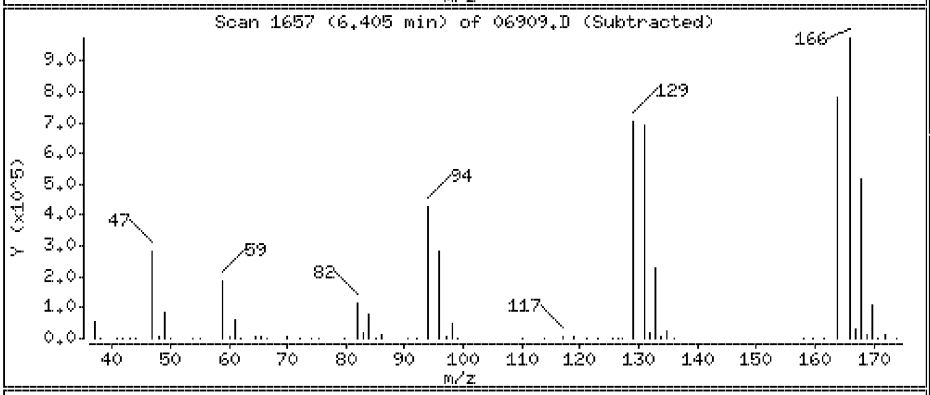
Column phase: J&W DB-5

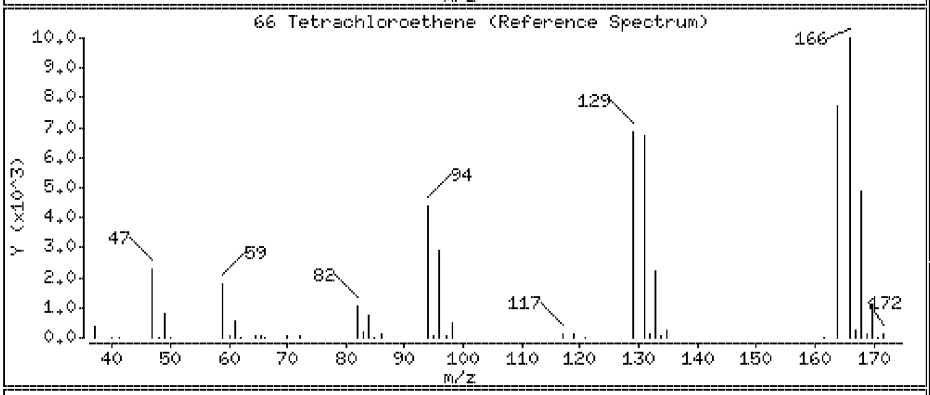
Column diameter: 0.32

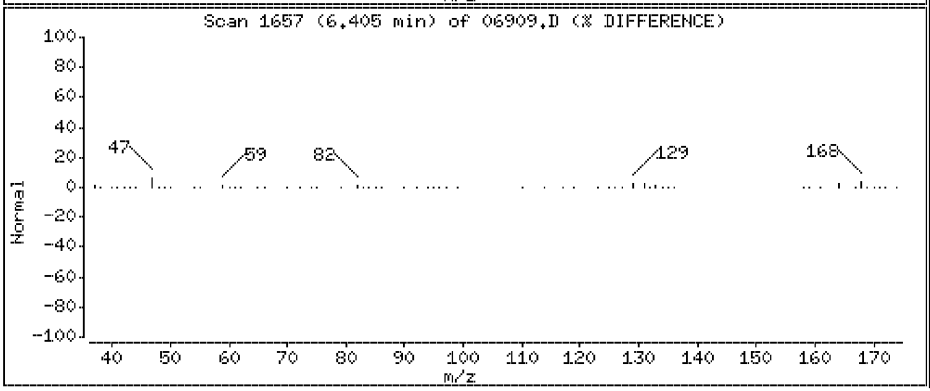
66 Tetrachloroethene

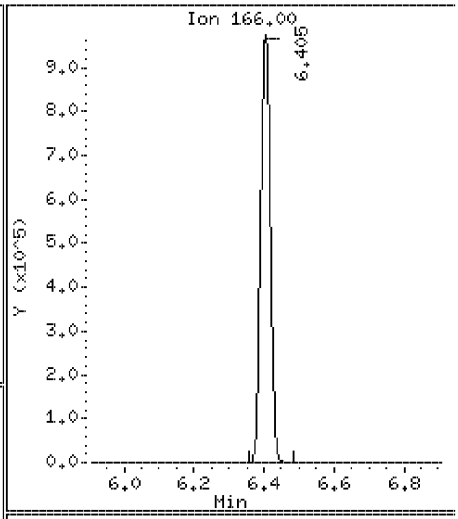
Concentration: 52.6 ppbv

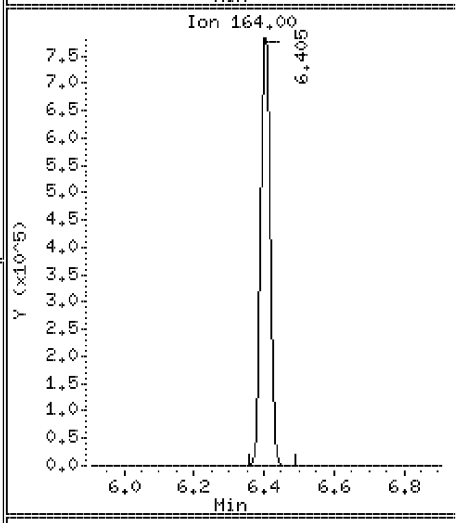


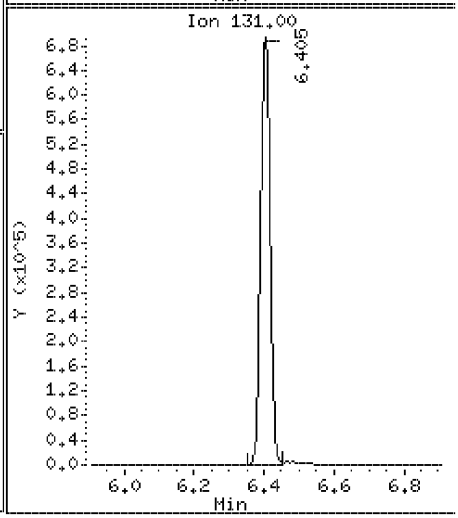












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

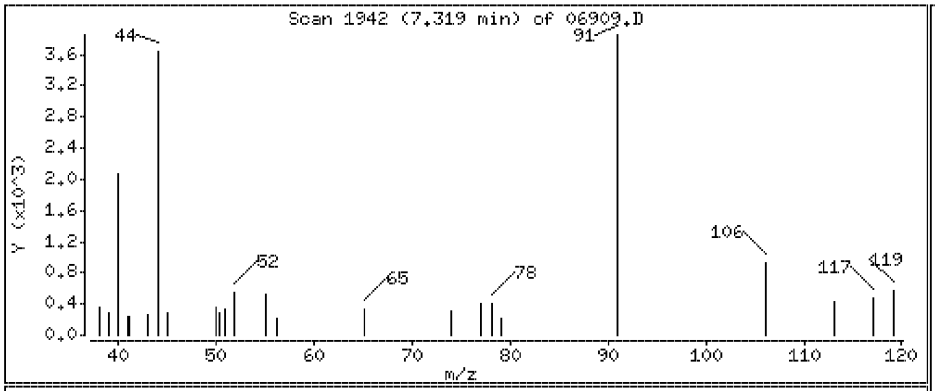
Operator: DR1

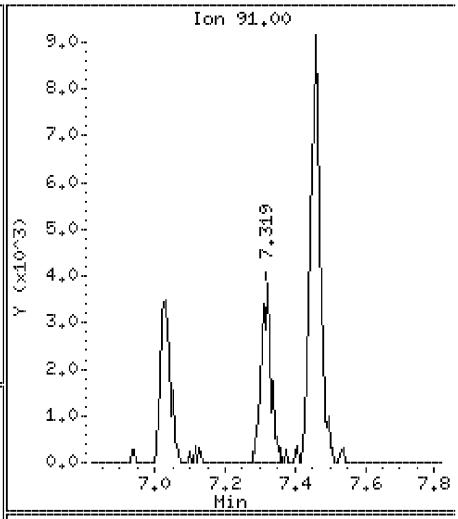
Column phase: J&W DB-5

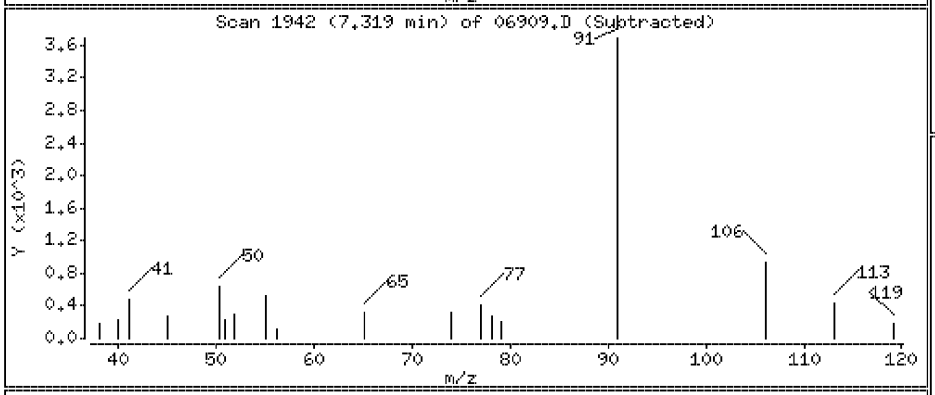
Column diameter: 0.32

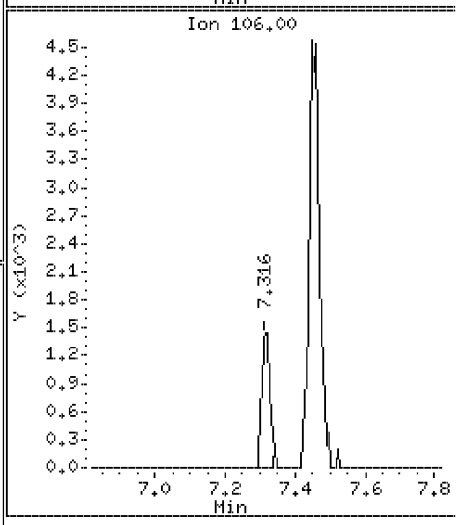
69 Ethyl Benzene

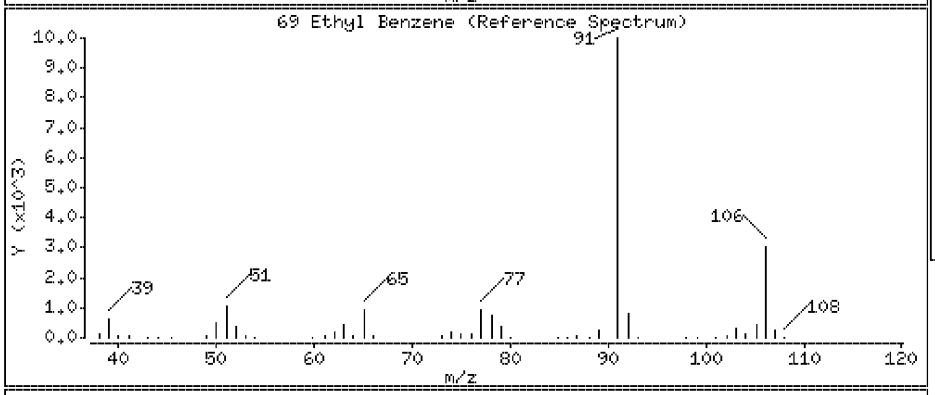
Concentration: 0.0959 ppbv

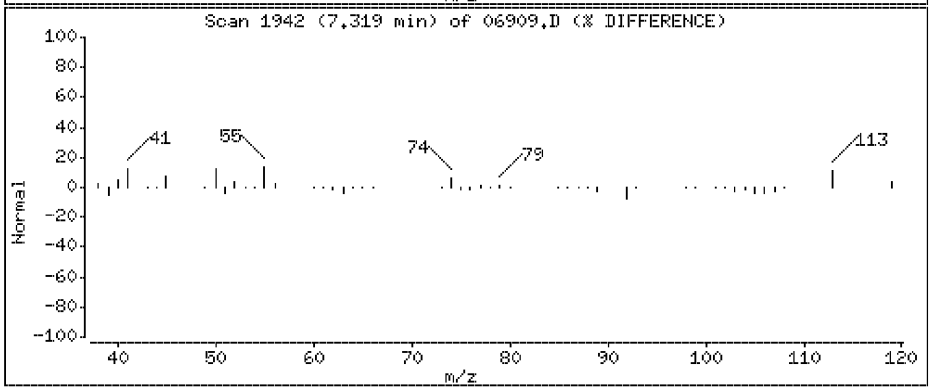












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

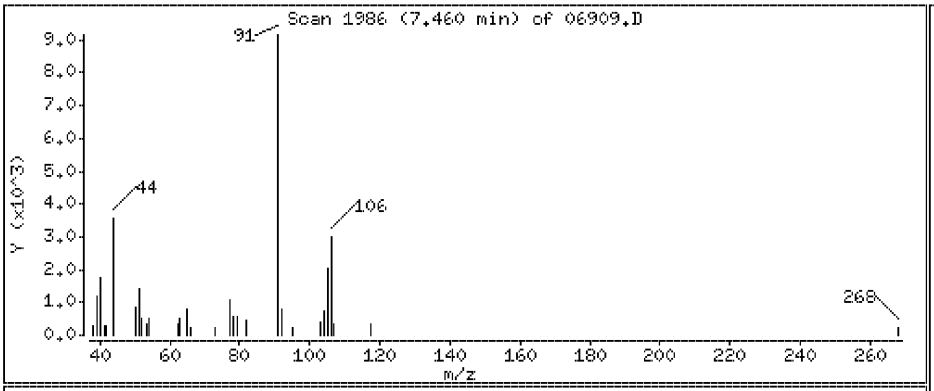
Operator: DR1

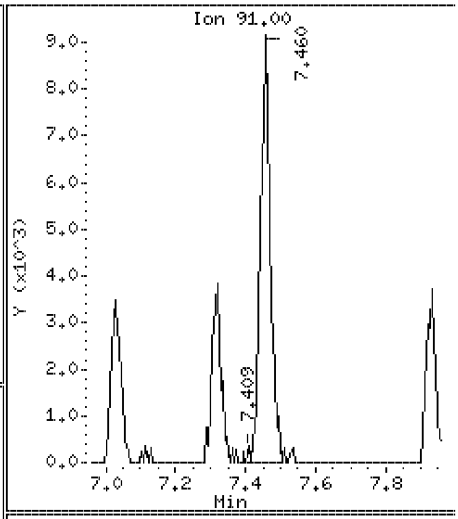
Column phase: J&W DB-5

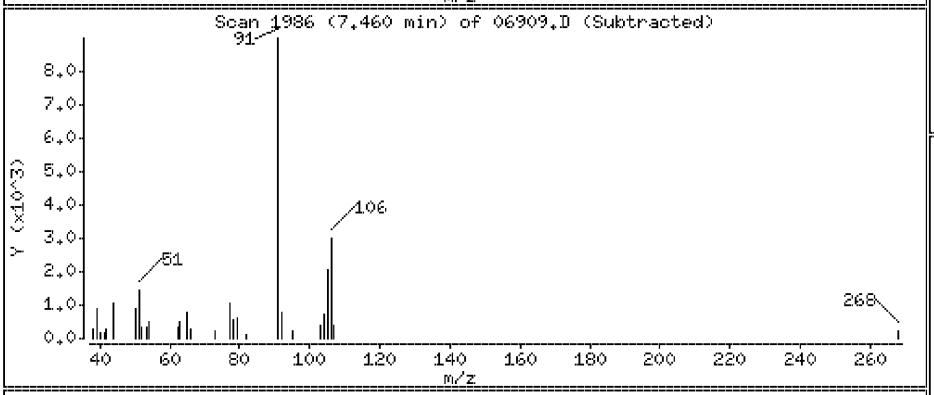
Column diameter: 0.32

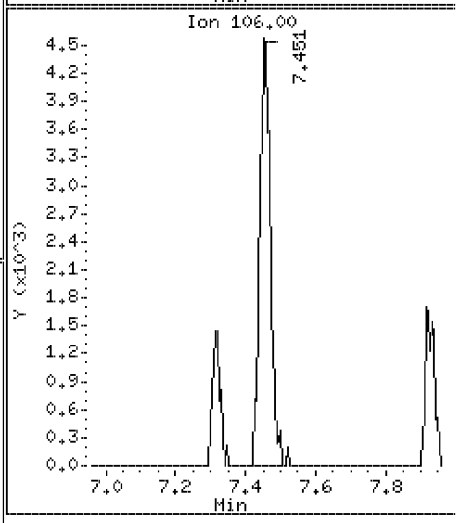
70 m&p-Xylene

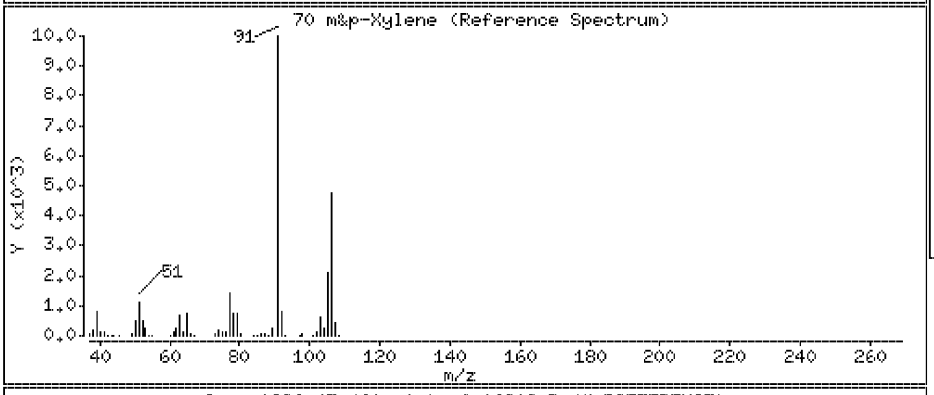
Concentration: 0.0963 ppbv

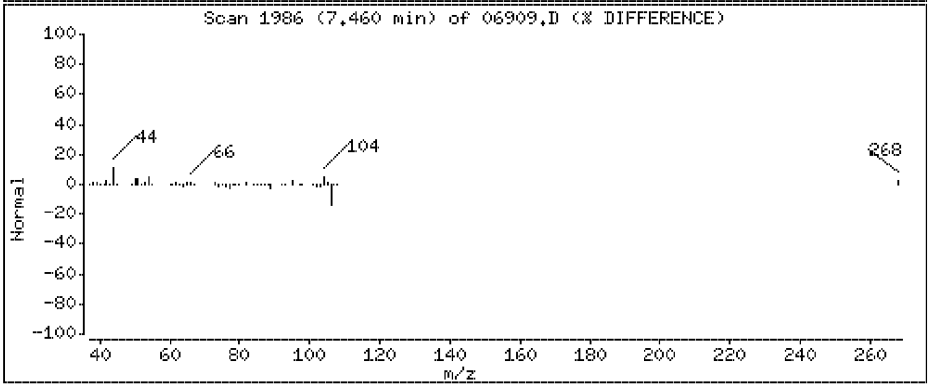












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

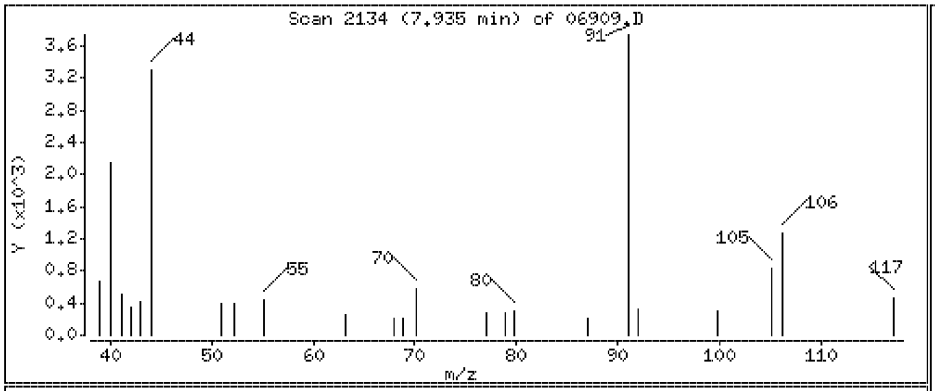
Operator: DR1

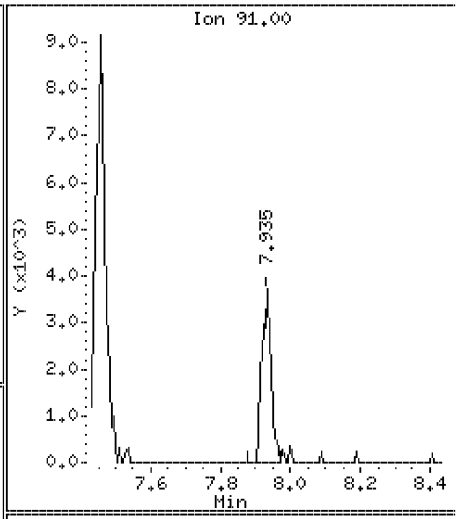
Column phase: J&W DB-5

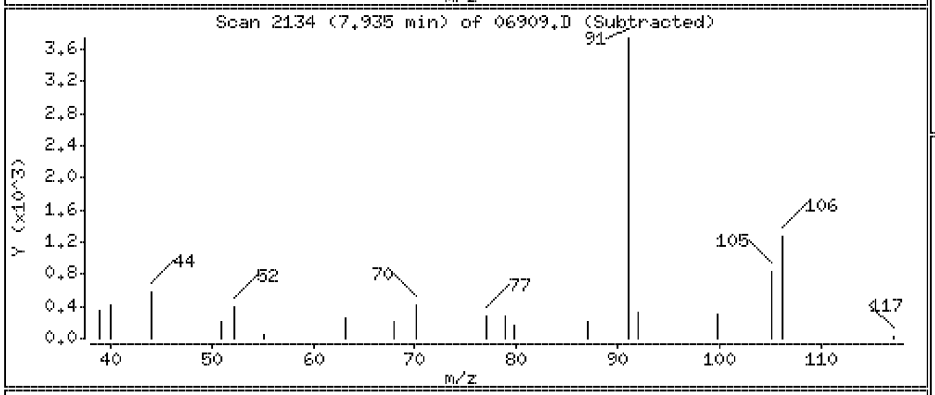
Column diameter: 0.32

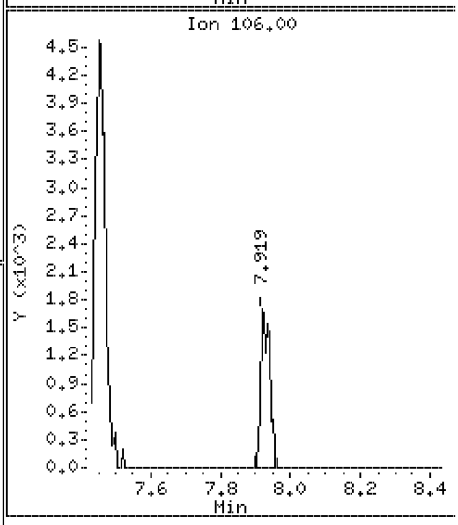
74 o-Xylene

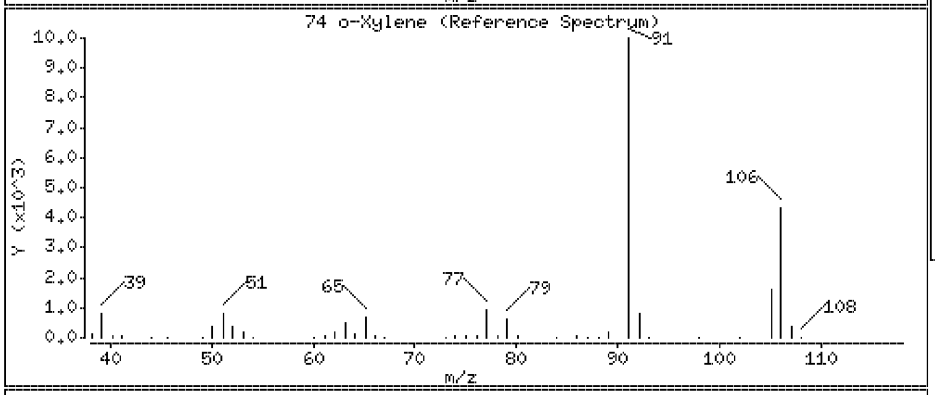
Concentration: 0.110 ppbv

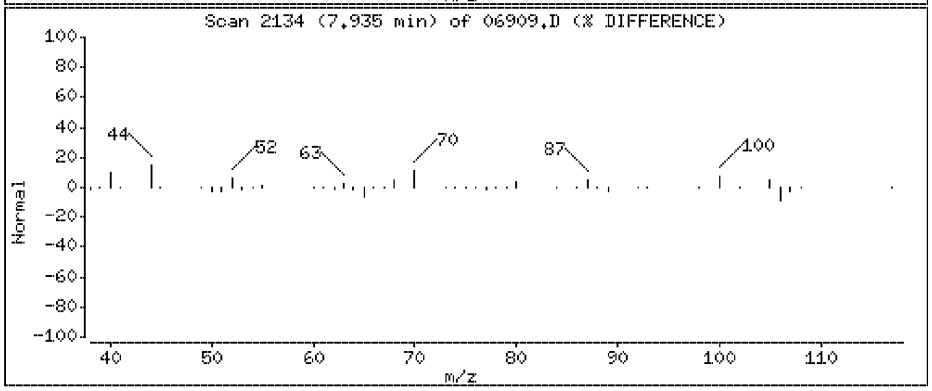












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

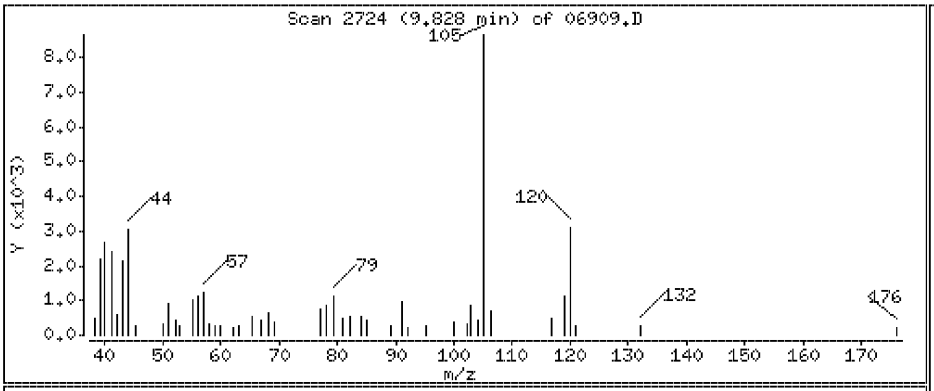
Operator: DR1

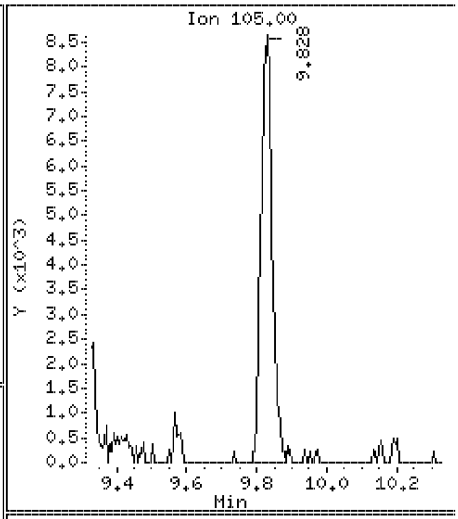
Column phase: J&W DB-5

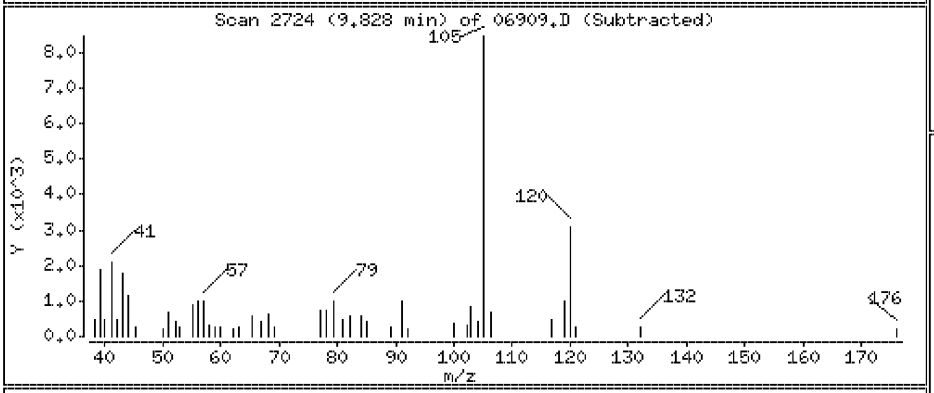
Column diameter: 0.32

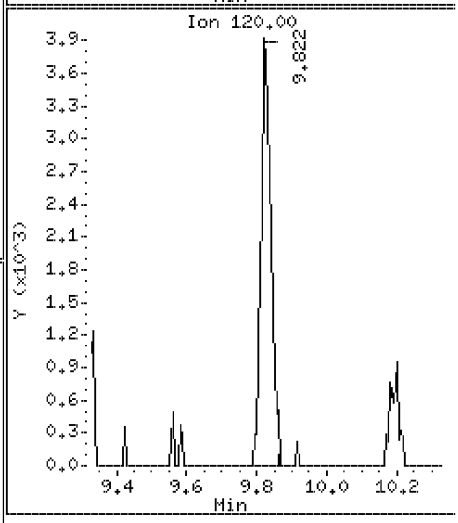
82 1,2,4-Trimethylbenzene

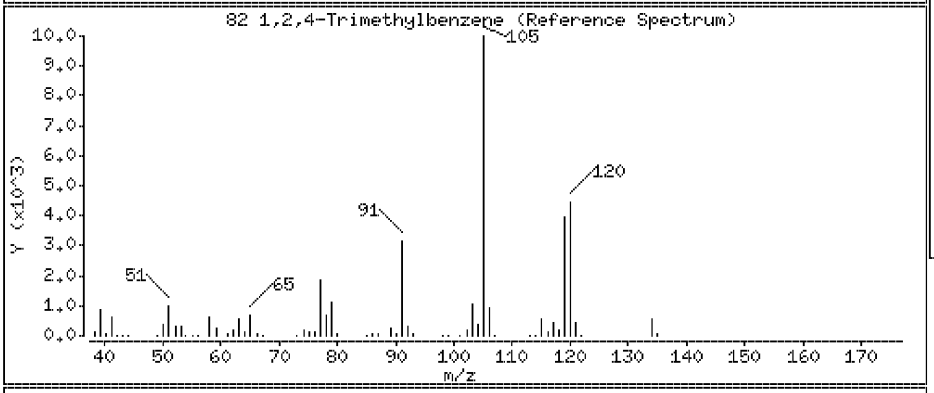
Concentration: 0.140 ppbv

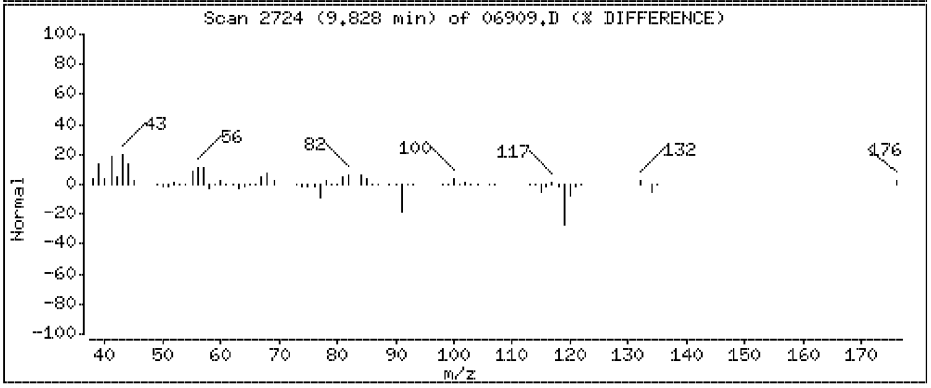












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06909.D

Date : 10-MAR-2017 18:48

Client ID:

Instrument: 10airD.i

Sample Info:

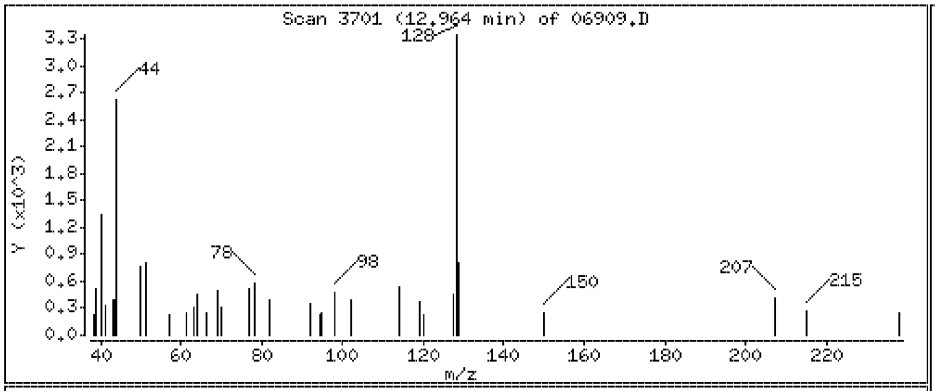
Operator: DR1

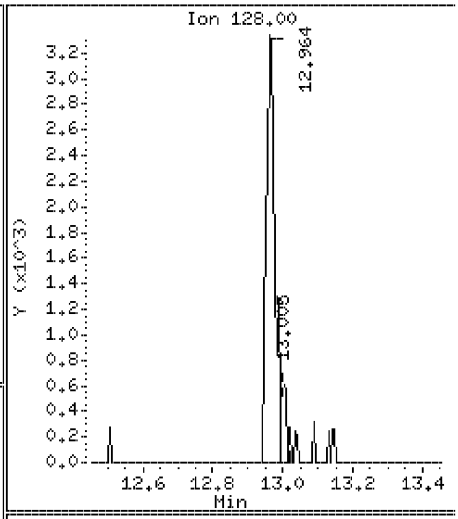
Column phase: J&W DB-5

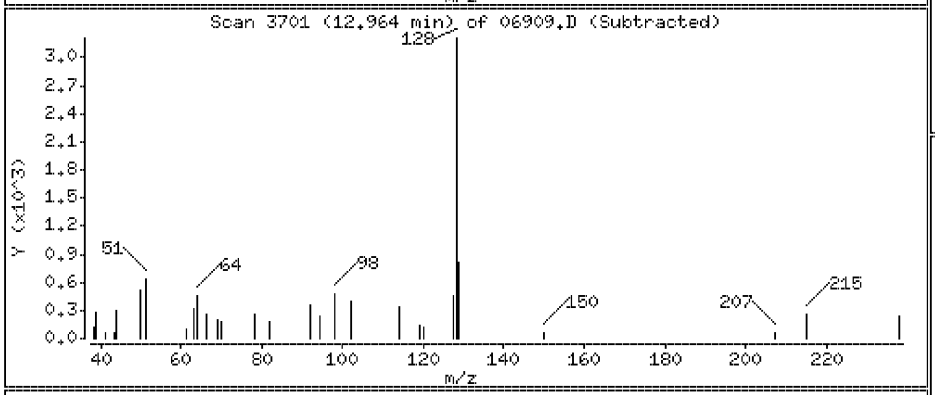
Column diameter: 0.32

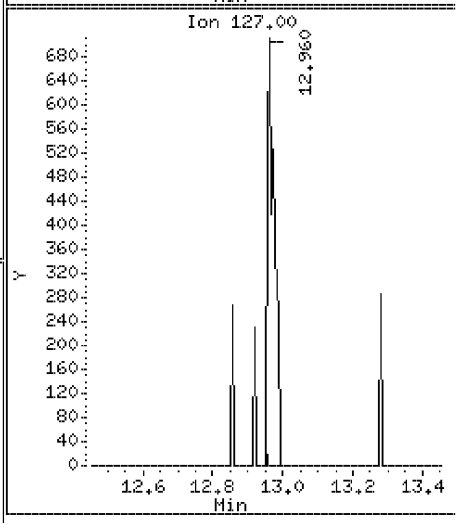
94 Naphthalene

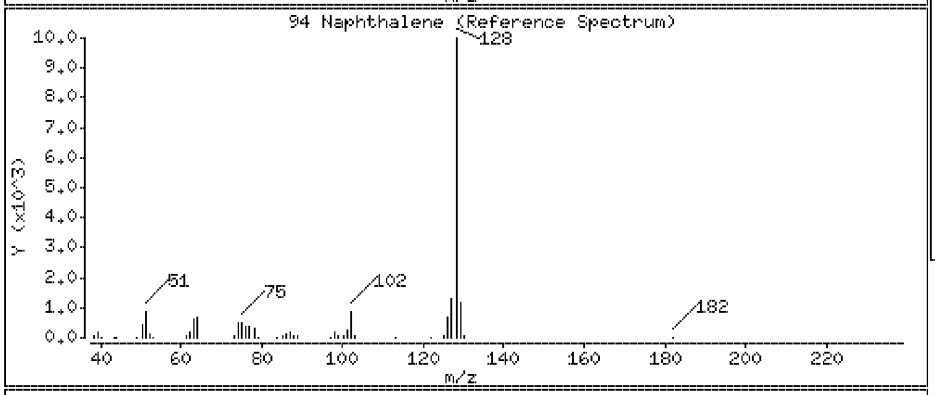
Concentration: 0.335 ppbv

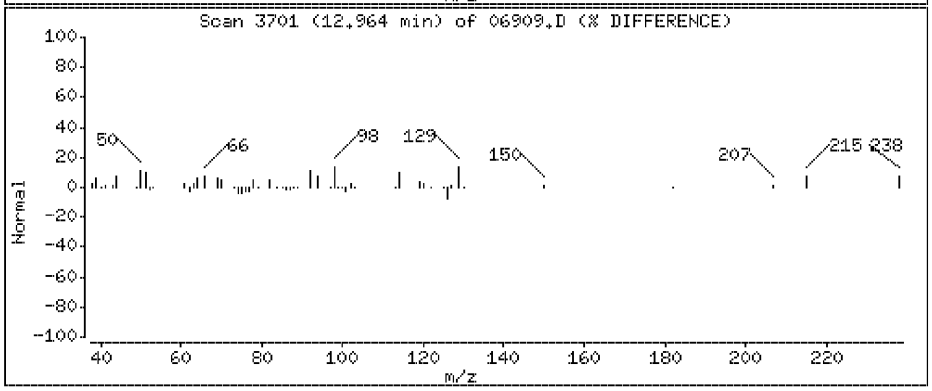






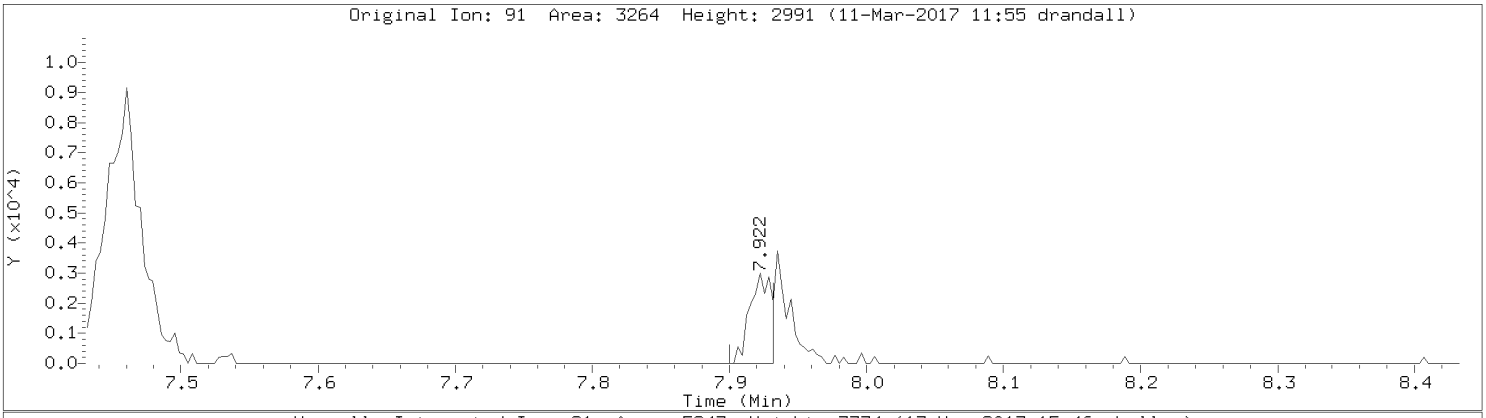


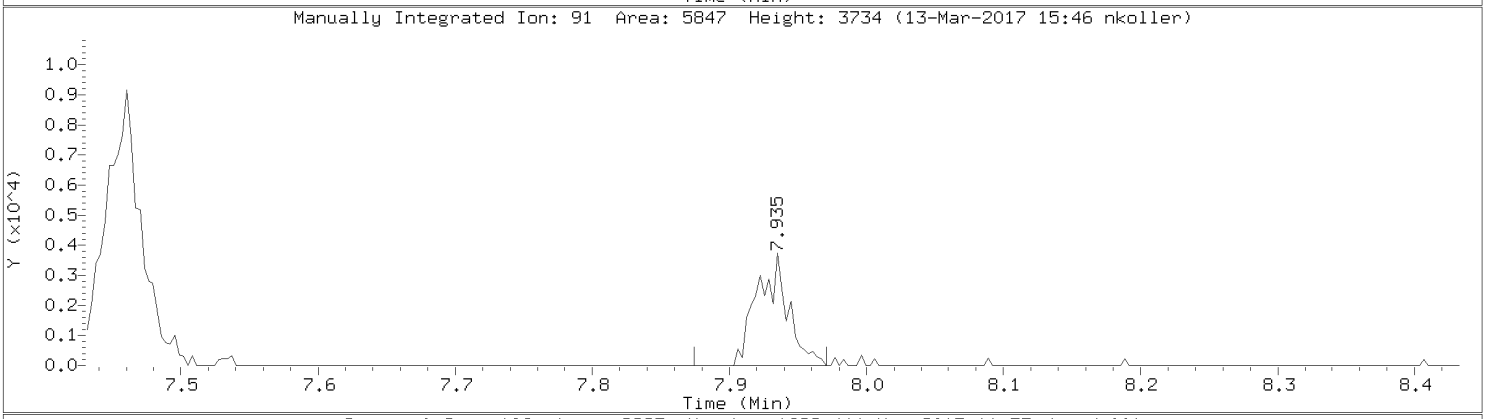


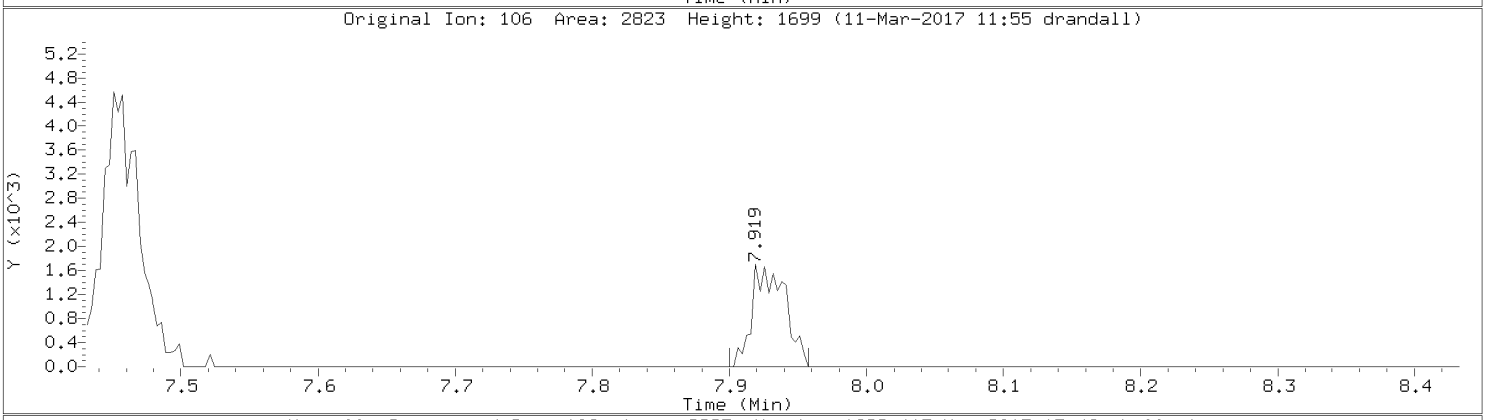


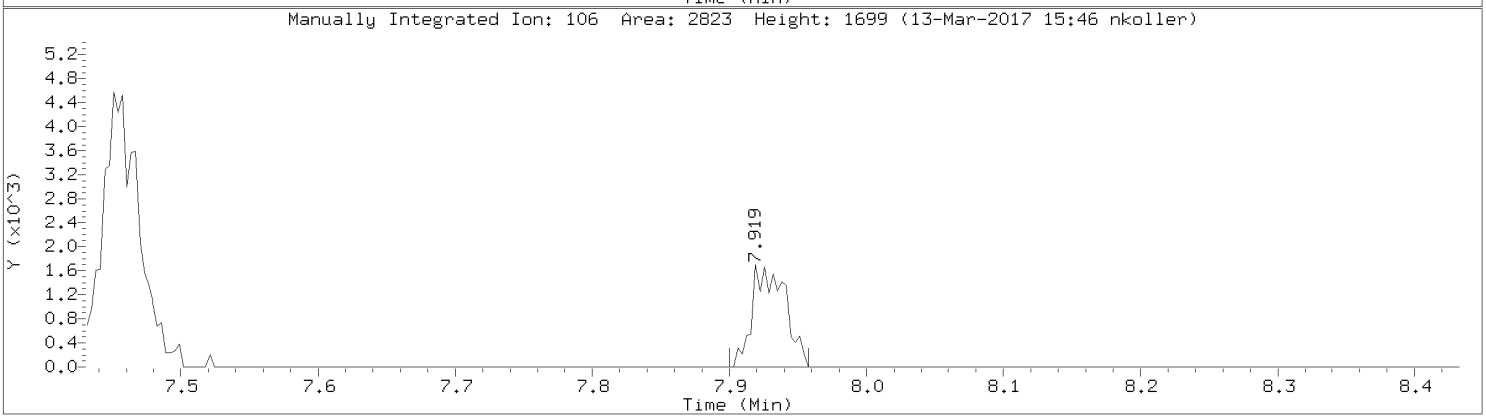
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06909.d
Injection Date: 10-MAR-2017 18:48
Instrument: 10airD.i
Lab Sample ID: 10380372004

Compound: o-Xylene
CAS Number: 95-47-6









Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.d
Report Date: 13-Mar-2017 14:16

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07009.d
Lab Smp Id: 10380372004
Inj Date : 11-MAR-2017 15:31
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 9
Dil Factor: 40.99200
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	40.992	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.d
Report Date: 13-Mar-2017 14:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.266	3.291	(0.770)	1593462	9.38644	9.39	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	37 Ethyl Acetate	43	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	3.548	3.590	(0.837)	1528	0.02565	1.05(aQ)	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	45 Carbon tetrachloride	117	Compound Not Detected.						
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.267	(1.000)	3197725	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	4.562	4.591	(1.076)	159944	4.14077	170	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						(D)
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.579	(1.311)	3093738	9.65531	9.66	
	60 Toluene	91	5.631	5.650	(1.328)	8240	0.08717	3.57	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.401	6.417	(0.911)	137097	2.56290	105	
*	67 Chlorobenzene - d5	117	7.026	7.042	(1.000)	2419687	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.312	7.325	(1.041)	1744	0.01643	0.673(a)	
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	7.928	7.938	(1.128)	3622	0.04138	1.70(a)	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.d
Report Date: 13-Mar-2017 14:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	9.318	9.321	(1.326)	6775	0.04022	1.65(aH)	
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.825	9.834	(1.398)	14481	0.06269	2.57	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.203	(1.451)	1340678	9.04329	9.04	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.d
Report Date: 13-Mar-2017 14:16

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07009.d
Lab Smp Id: 10380372004
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 11-MAR-2017
Calibration Time: 10:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

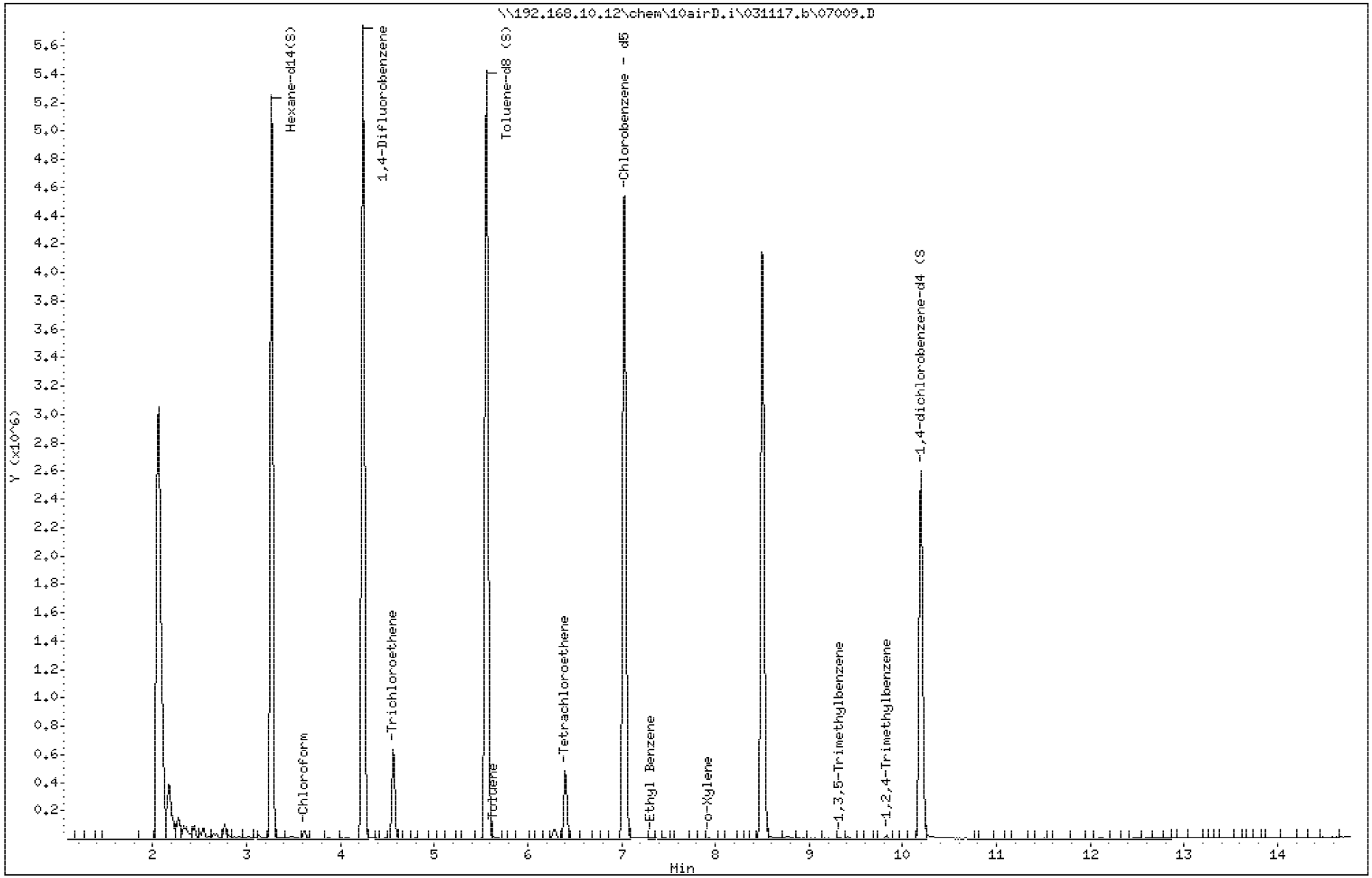
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3197725	-15.57
67 Chlorobenzene - d	3280875	1968525	4593225	2419687	-26.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.27	3.94	4.60	4.24	-0.60
67 Chlorobenzene - d	7.04	6.71	7.37	7.03	-0.23

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.D
Date : 11-MAR-2017 15:31
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.D

Date : 11-MAR-2017 15:31

Client ID:

Instrument: 10airD.i

Sample Info:

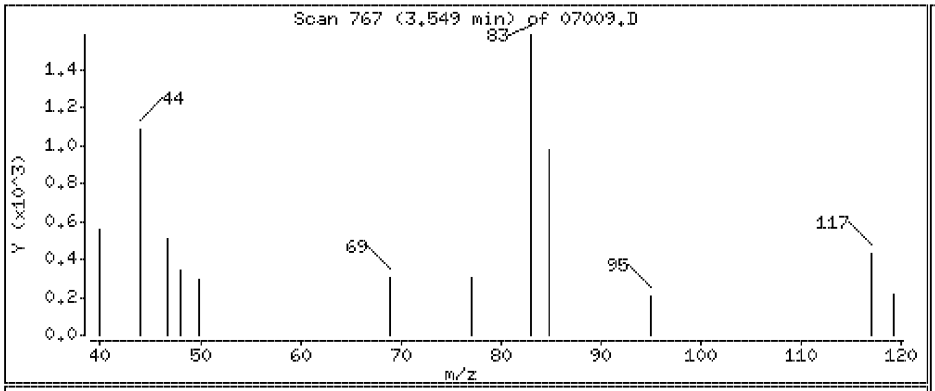
Operator: DR1

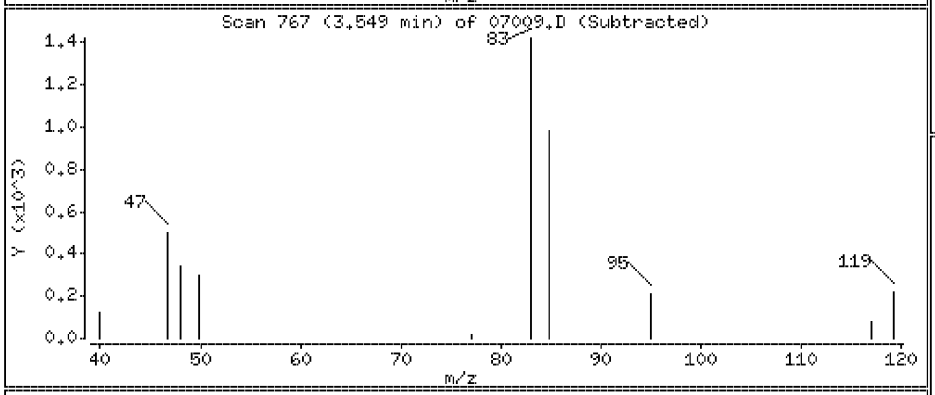
Column phase: J&W DB-5

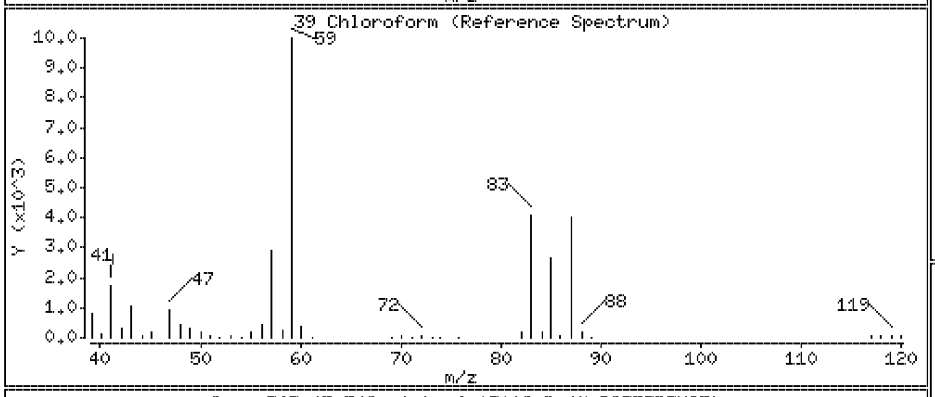
Column diameter: 0.32

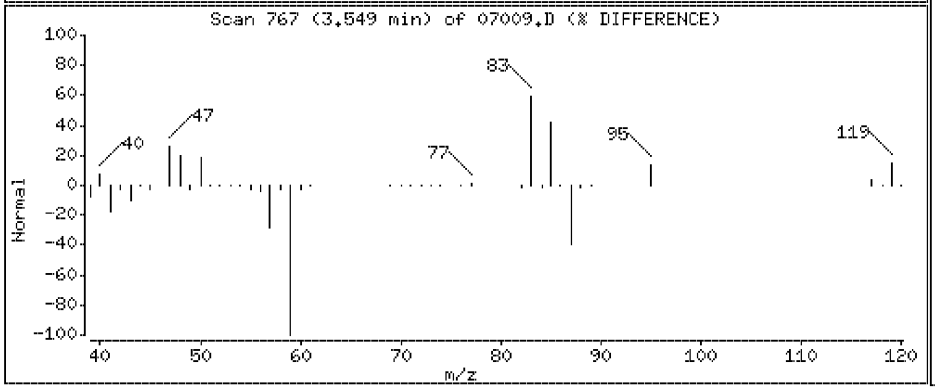
39 Chloroform

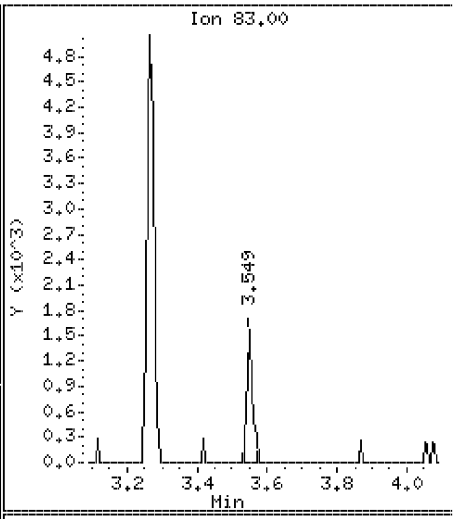
Concentration: 1.05 ppbv

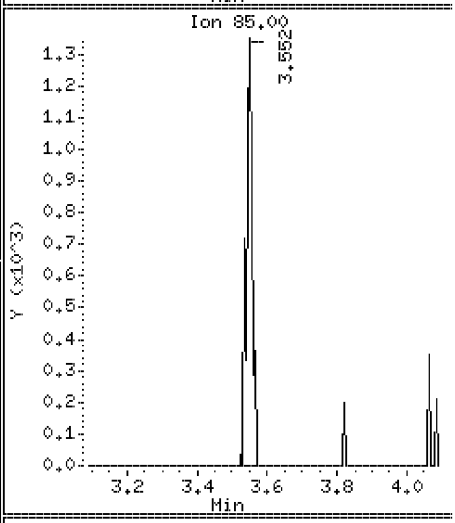


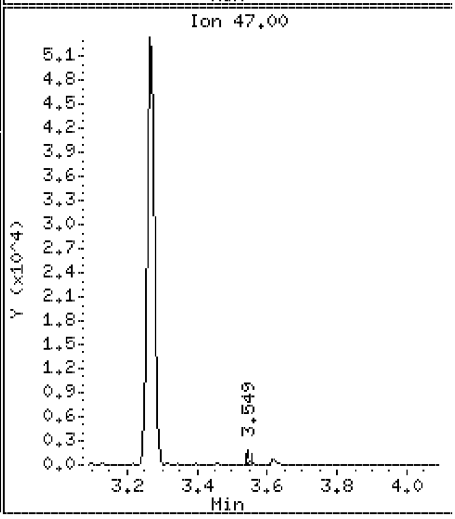












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.D

Date : 11-MAR-2017 15:31

Client ID:

Instrument: 10airD.i

Sample Info:

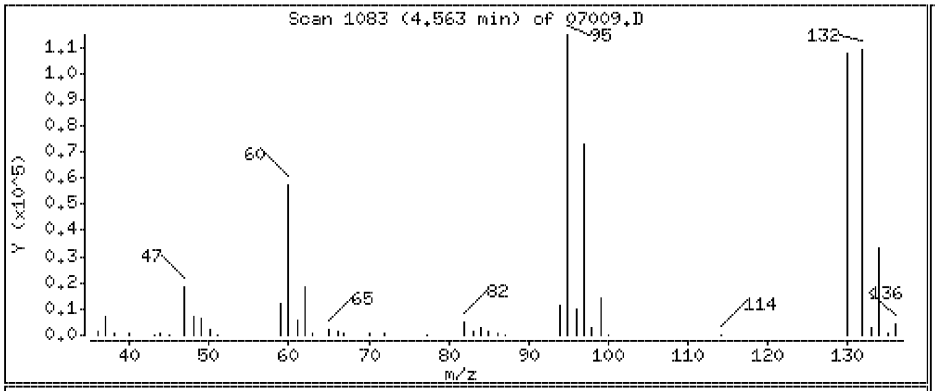
Operator: DR1

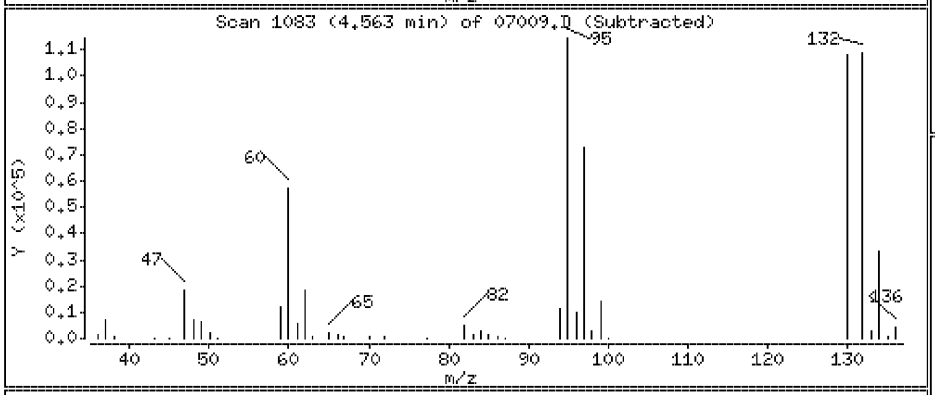
Column phase: J&W DB-5

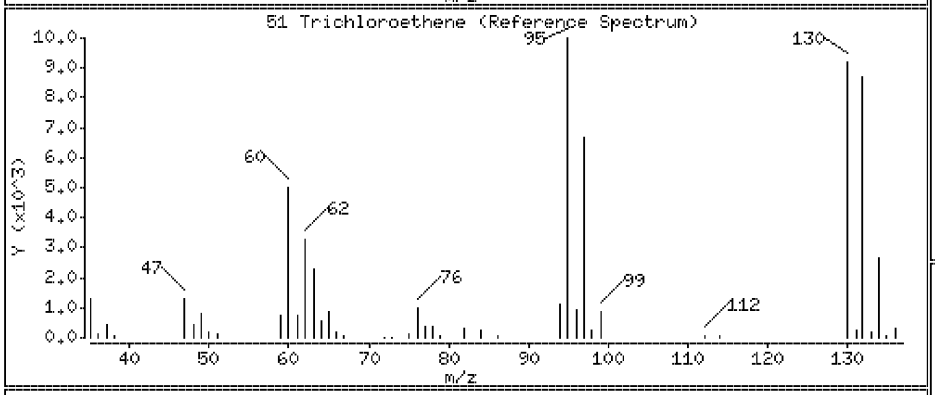
Column diameter: 0.32

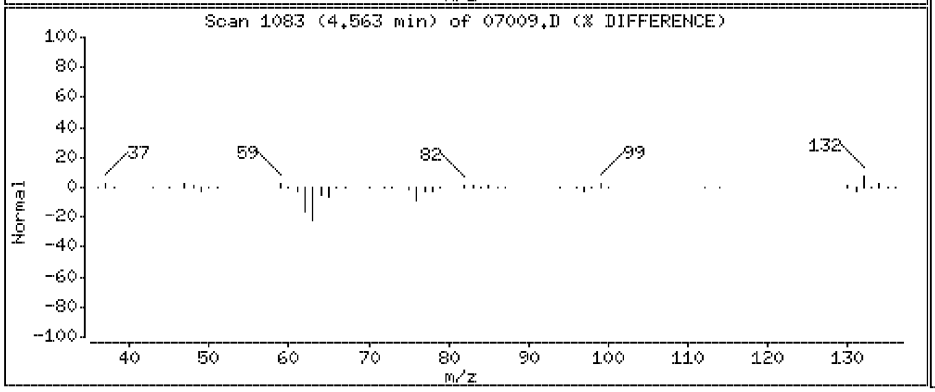
51 Trichloroethene

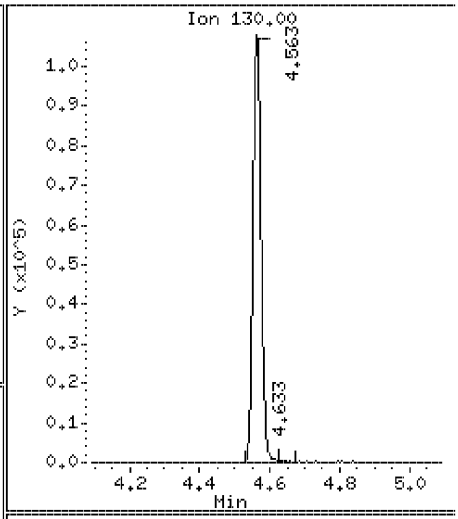
Concentration: 170 ppbv

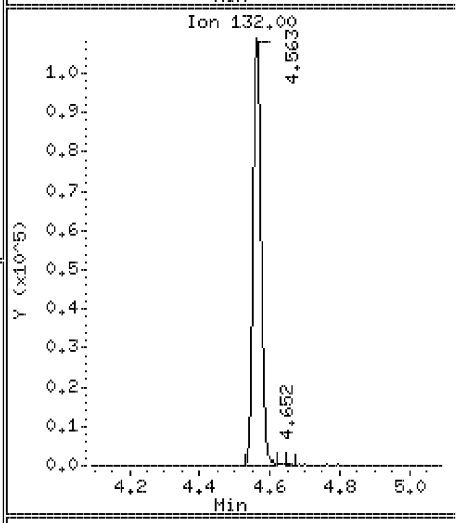


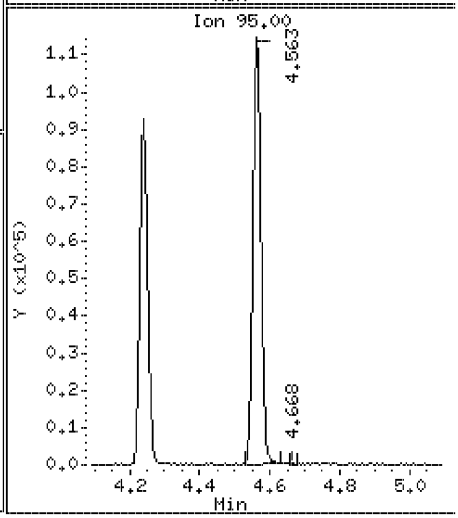












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.D

Date : 11-MAR-2017 15:31

Client ID:

Instrument: 10airD.i

Sample Info:

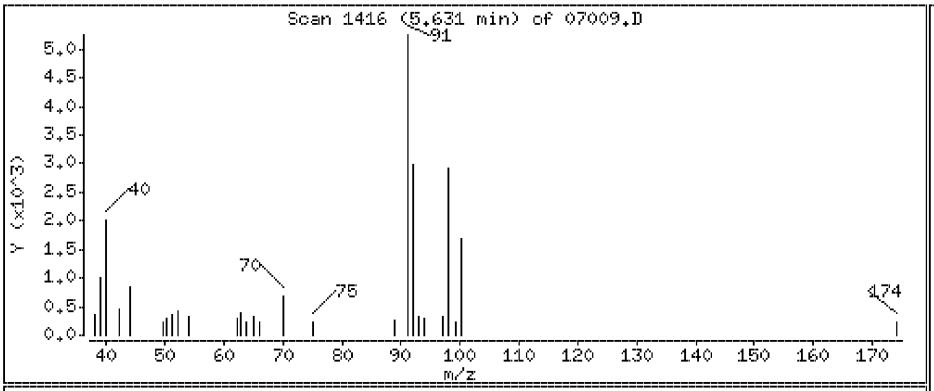
Operator: DR1

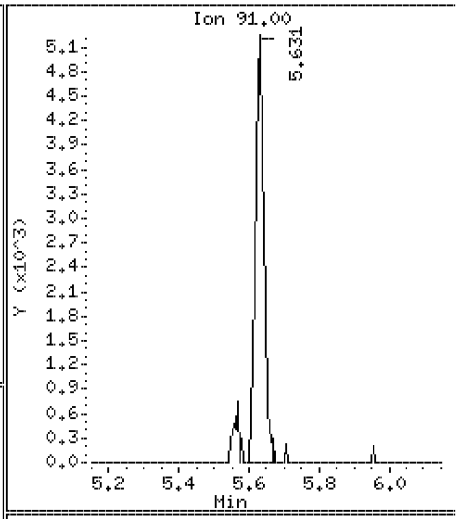
Column phase: J&W DB-5

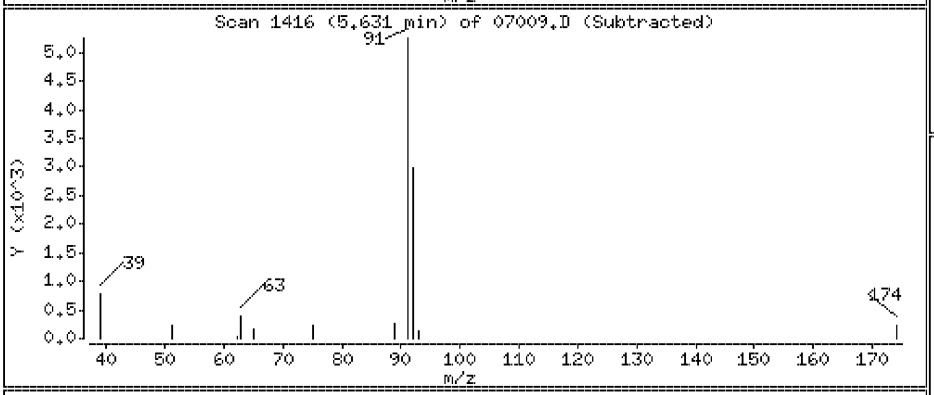
Column diameter: 0.32

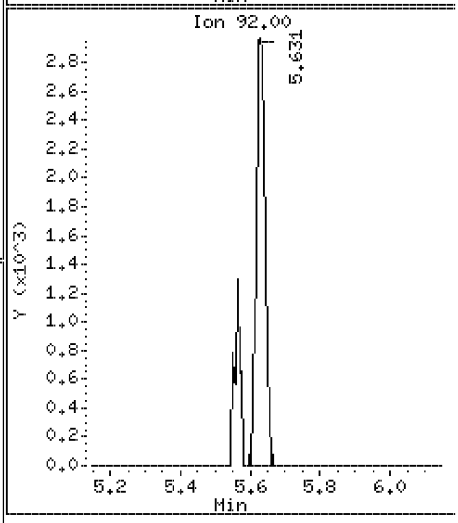
60 Toluene

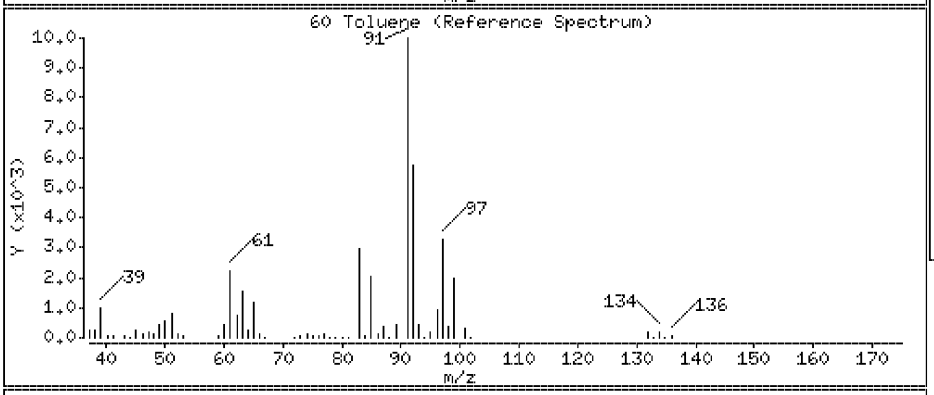
Concentration: 3.57 ppbv

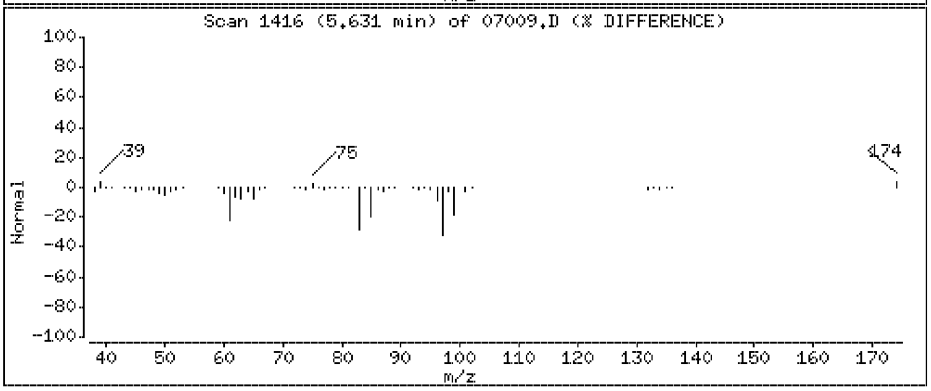












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.D

Date : 11-MAR-2017 15:31

Client ID:

Instrument: 10airD.i

Sample Info:

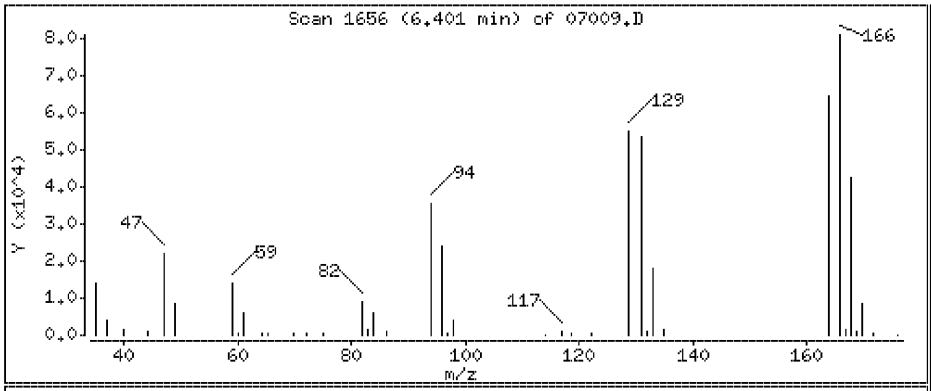
Operator: DR1

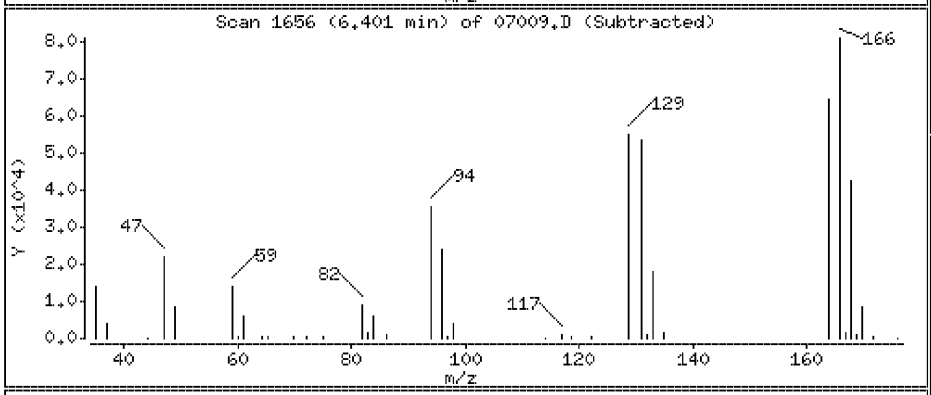
Column phase: J&W DB-5

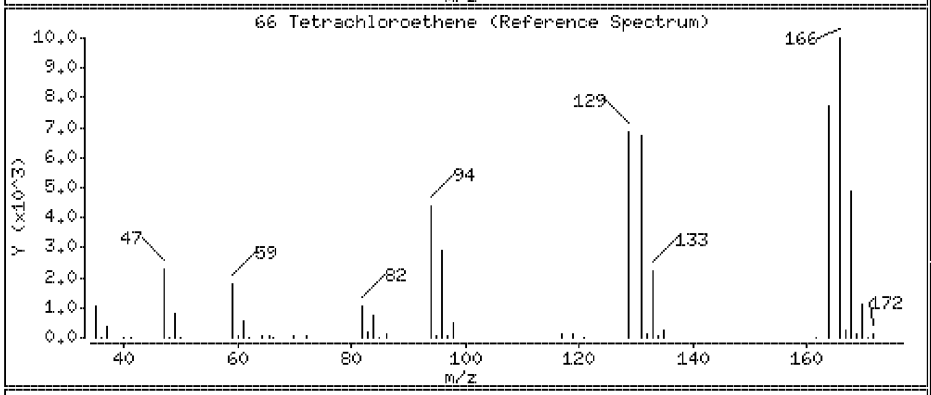
Column diameter: 0.32

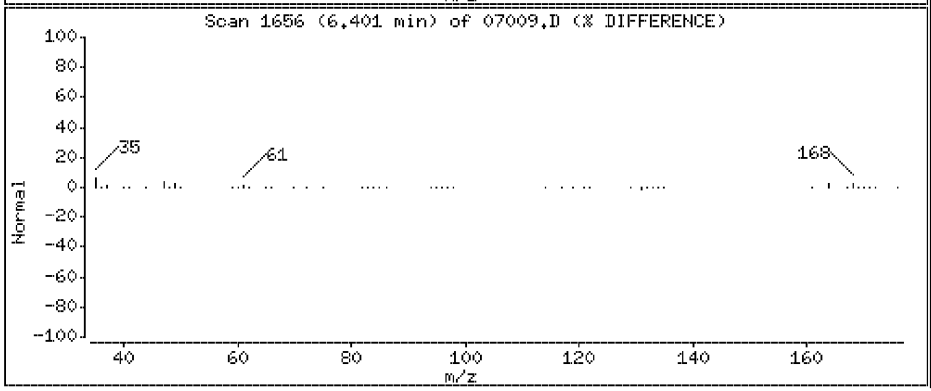
66 Tetrachloroethene

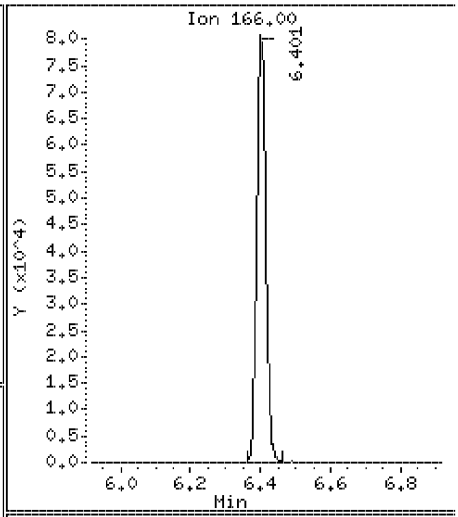
Concentration: 105 ppbv

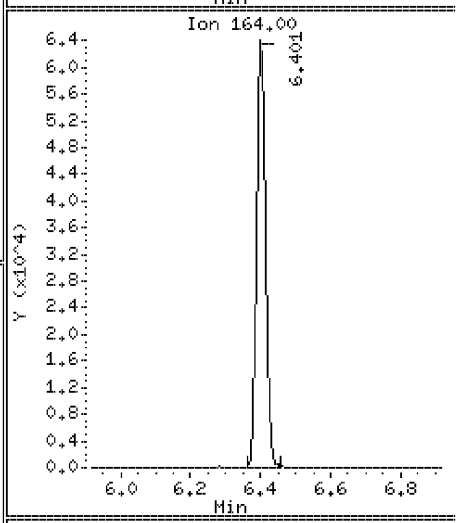


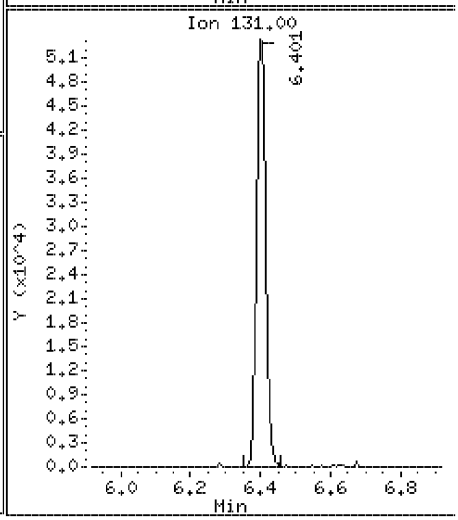












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.D

Date : 11-MAR-2017 15:31

Client ID:

Instrument: 10airD.i

Sample Info:

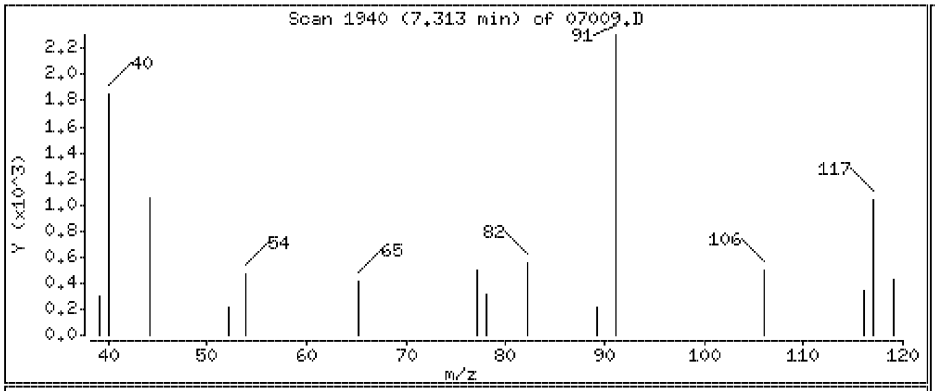
Operator: DR1

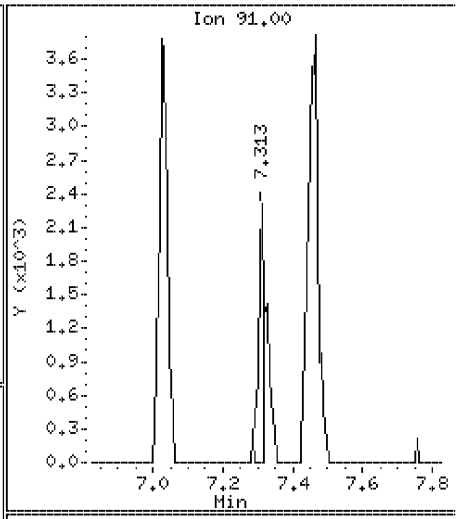
Column phase: J&W DB-5

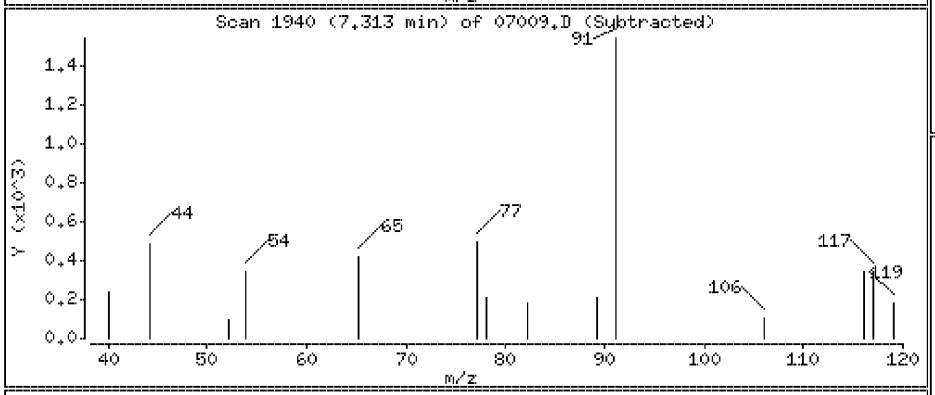
Column diameter: 0.32

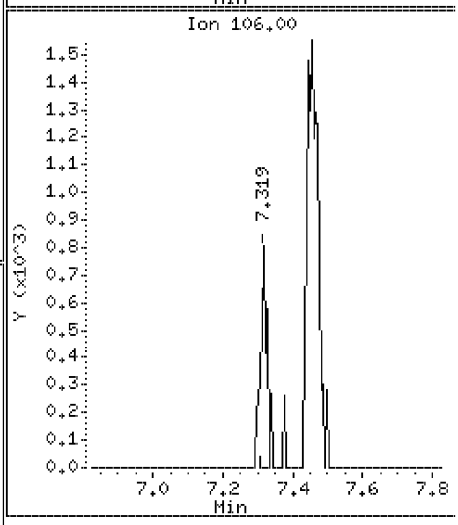
69 Ethyl Benzene

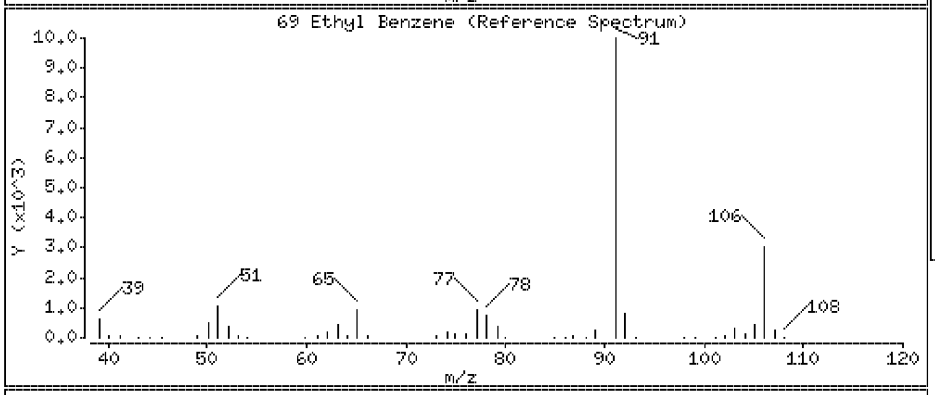
Concentration: 0.673 ppbv

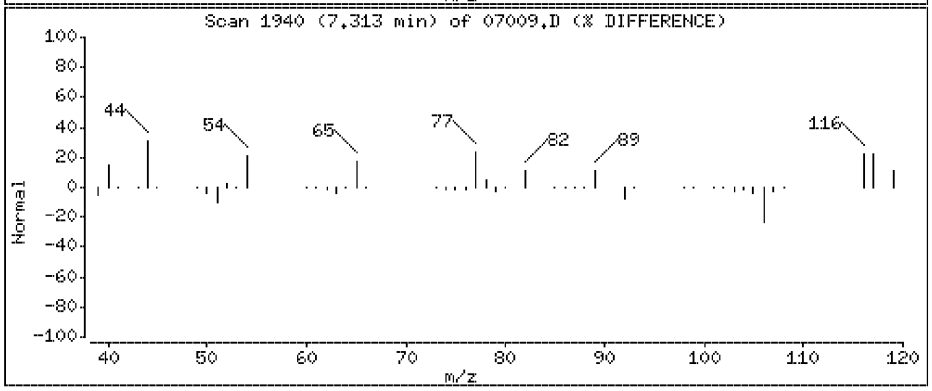












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.D

Date : 11-MAR-2017 15:31

Client ID:

Instrument: 10airD.i

Sample Info:

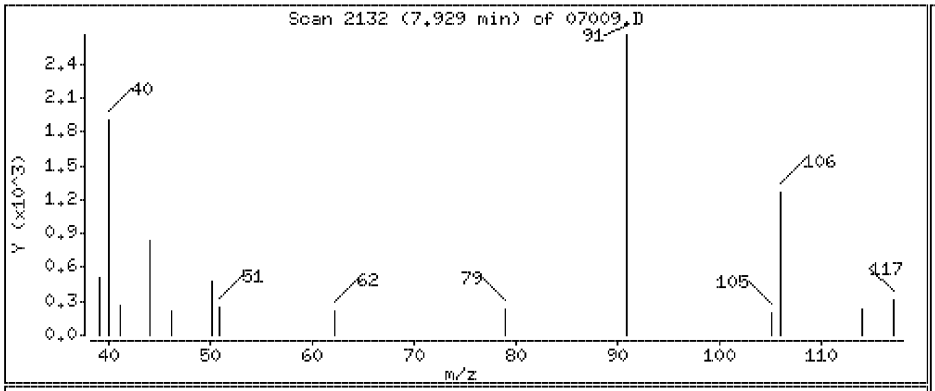
Operator: DR1

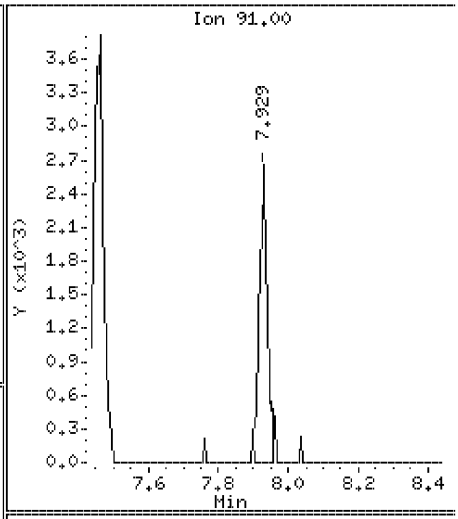
Column phase: J&W DB-5

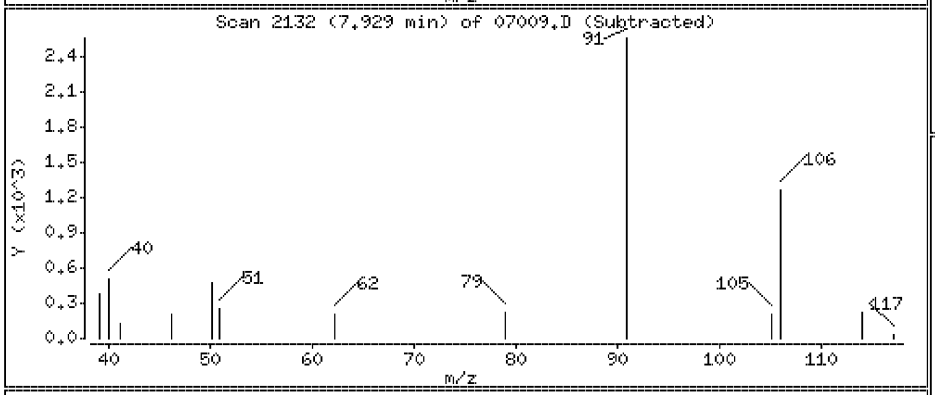
Column diameter: 0.32

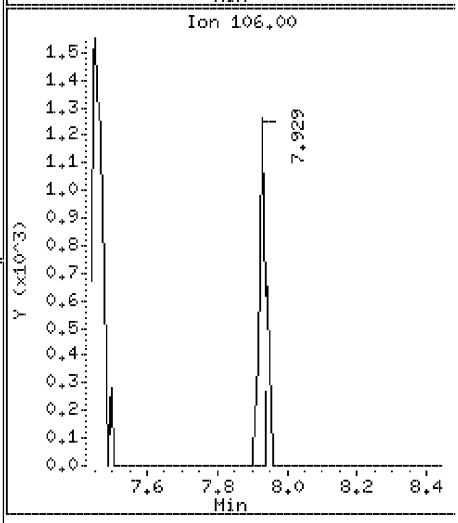
74 o-Xylene

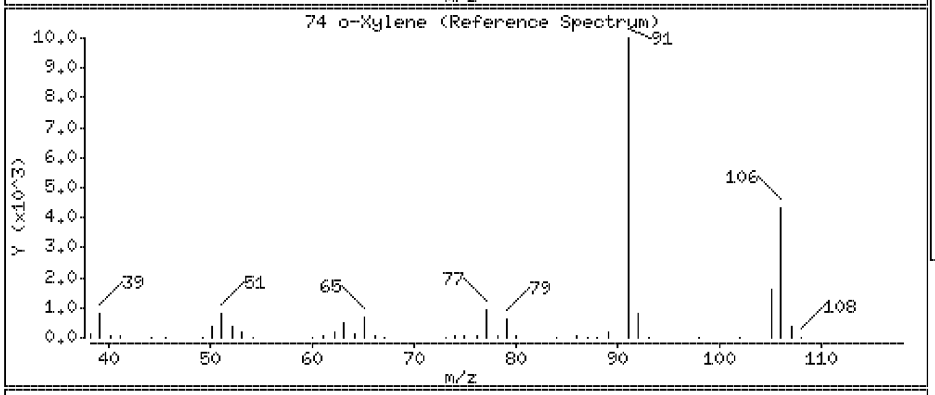
Concentration: 1.70 ppbv

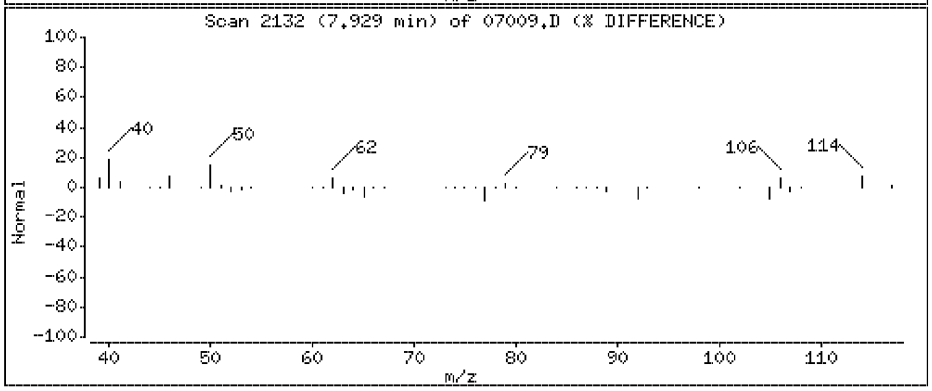












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.D

Date : 11-MAR-2017 15:31

Client ID:

Instrument: 10airD.i

Sample Info:

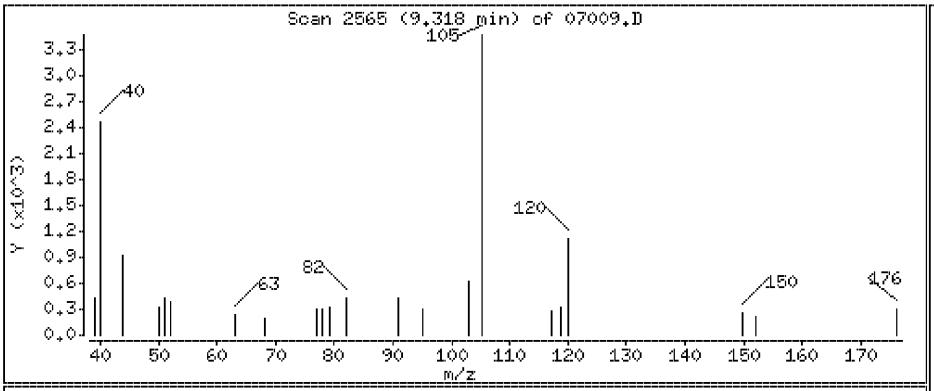
Operator: DR1

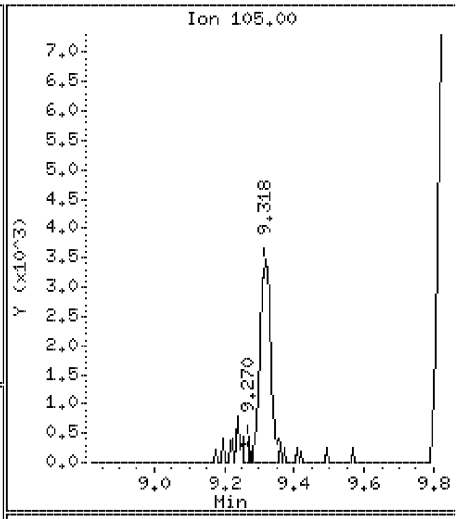
Column phase: J&W DB-5

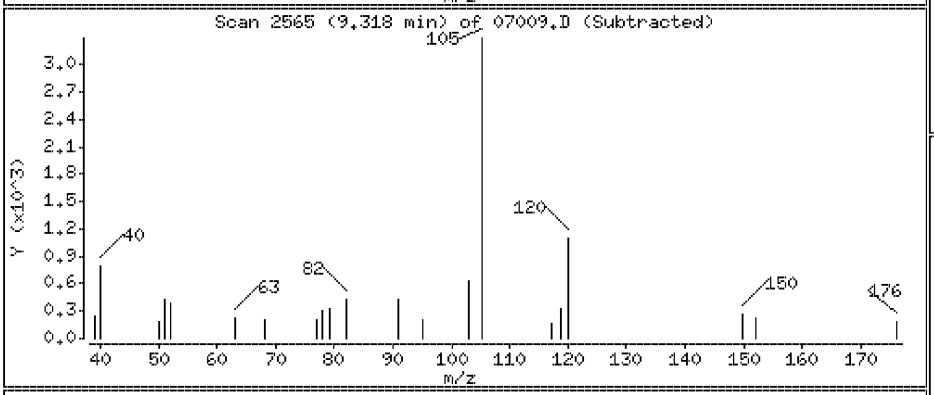
Column diameter: 0.32

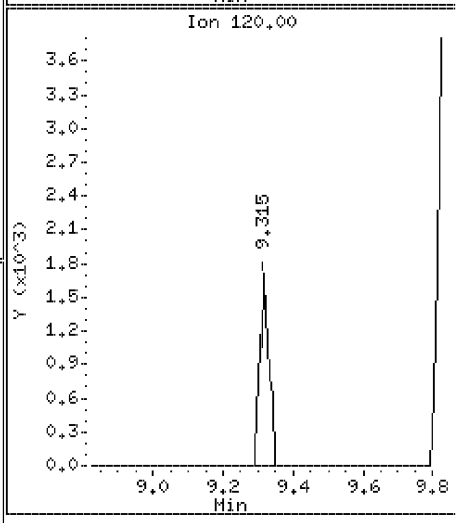
79 1,3,5-Trimethylbenzene

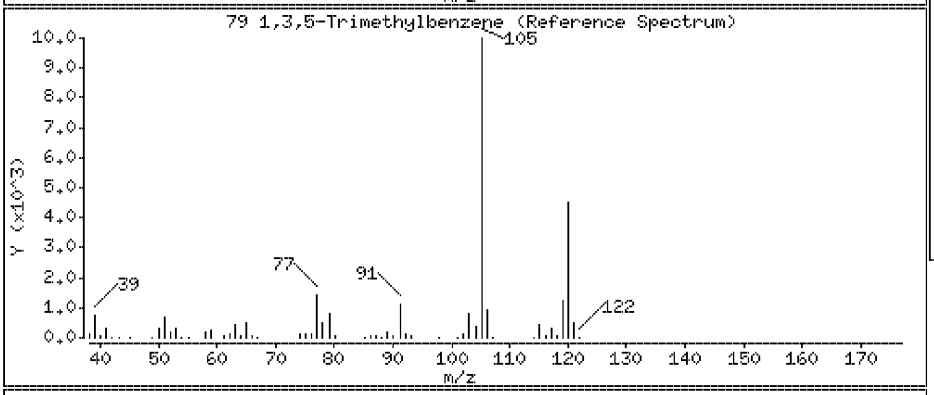
Concentration: 1.65 ppbv

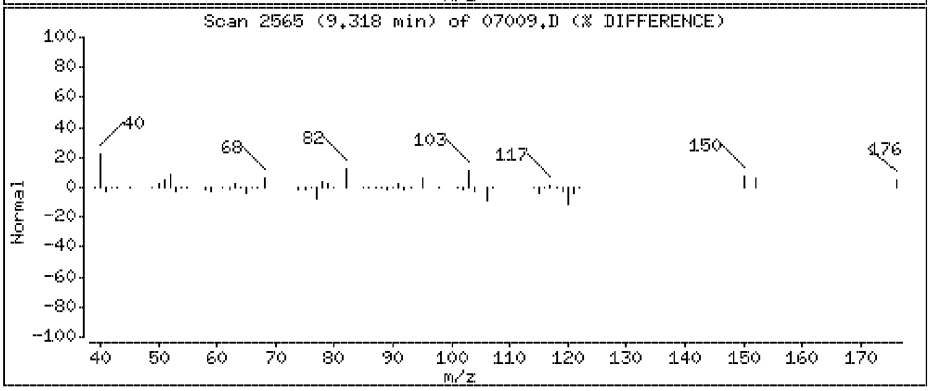












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07009.D

Date : 11-MAR-2017 15:31

Client ID:

Instrument: 10airD.i

Sample Info:

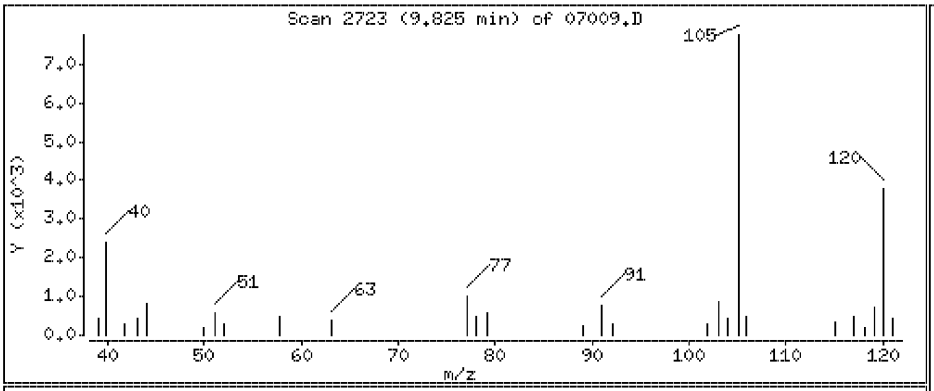
Operator: DR1

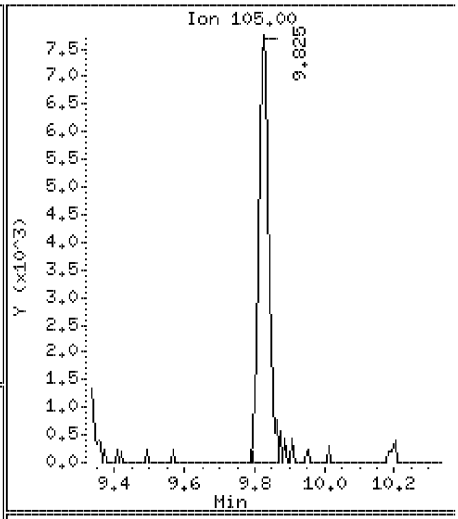
Column phase: J&W DB-5

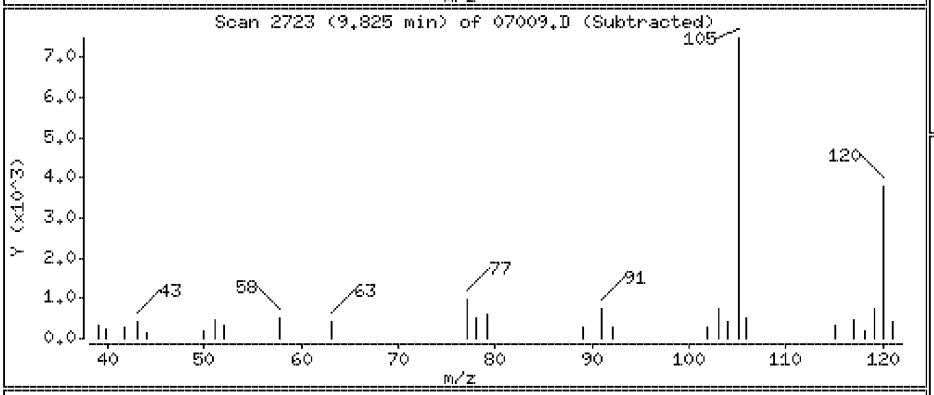
Column diameter: 0.32

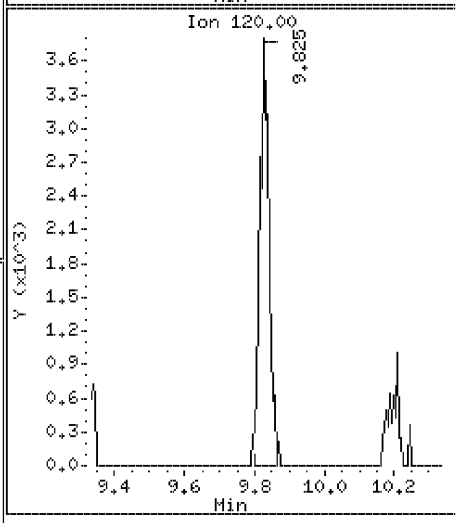
82 1,2,4-Trimethylbenzene

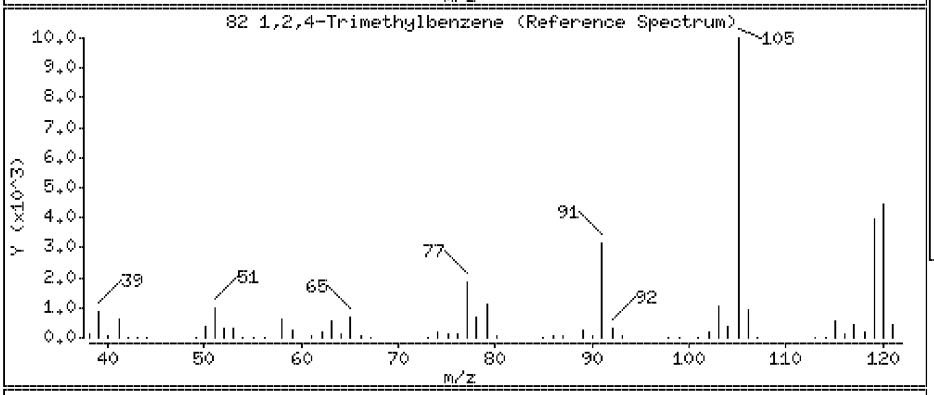
Concentration: 2.57 ppbv

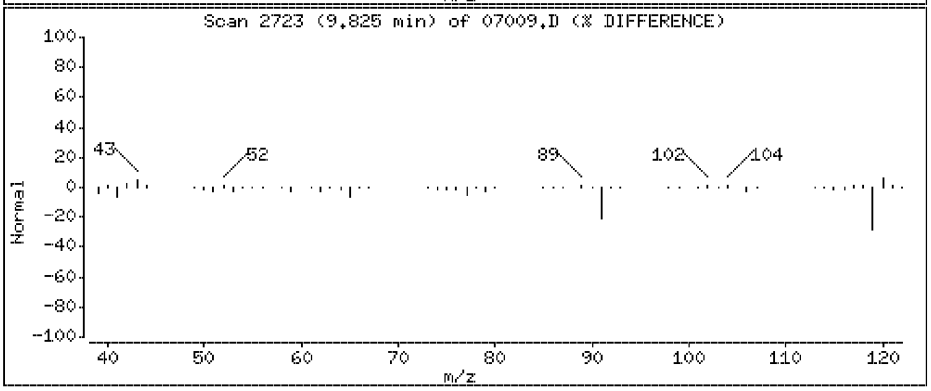












Data File: \\192.168.10.12\chem\10airD.i\031117.b/07009.d
Injection Date: 11-MAR-2017 15:31
Instrument: 10airD.i
Lab Sample ID: 10380372004
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_61.5_20170226 **Lab ID: 10380372005** Collected: 02/26/17 13:44 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**79.4**	ug/m3	11.0	1.5	1.83		03/10/17 19:44	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/10/17 19:44	107-05-1	
Benzene	**0.58J**	ug/m3	0.59	0.22	1.83		03/10/17 19:44	71-43-2	
Bromodichloromethane	**0.36U**	ug/m3	2.5	0.36	1.83		03/10/17 19:44	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/10/17 19:44	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/10/17 19:44	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/10/17 19:44	106-99-0	
2-Butanone (MEK)	**11.4**	ug/m3	5.5	0.42	1.83		03/10/17 19:44	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/10/17 19:44	75-15-0	
Carbon tetrachloride	**0.69J**	ug/m3	1.2	0.35	1.83		03/10/17 19:44	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/10/17 19:44	108-90-7	
Chlorodifluoromethane	**0.51U**	ug/m3	1.3	0.51	1.83		03/10/17 19:44	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/10/17 19:44	75-00-3	
Chloroform	**3.6**	ug/m3	0.91	0.35	1.83		03/10/17 19:44	67-66-3	
Chloromethane	**0.20U**	ug/m3	0.77	0.20	1.83		03/10/17 19:44	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/10/17 19:44	76-15-3	
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/10/17 19:44	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/10/17 19:44	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/10/17 19:44	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/10/17 19:44	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/10/17 19:44	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/10/17 19:44	541-73-1	
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/10/17 19:44	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.88	1.83		03/10/17 19:44	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/10/17 19:44	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/10/17 19:44	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 19:44	75-35-4	
cis-1,2-Dichloroethene	**6.1**	ug/m3	1.5	0.45	1.83		03/10/17 19:44	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/10/17 19:44	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/10/17 19:44	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/10/17 19:44	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/10/17 19:44	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/10/17 19:44	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/10/17 19:44	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/10/17 19:44	123-91-1	
Ethylbenzene	**0.84J**	ug/m3	1.6	0.78	1.83		03/10/17 19:44	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/10/17 19:44	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/10/17 19:44	87-68-3	
n-Hexane	**2.6**	ug/m3	1.3	0.65	1.83		03/10/17 19:44	110-54-3	
2-Hexanone	**1.3J**	ug/m3	7.6	0.75	1.83		03/10/17 19:44	591-78-6	
Isopropylbenzene (Cumene)	**0.32J**	ug/m3	4.6	0.25	1.83		03/10/17 19:44	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/10/17 19:44	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 19:44	108-87-2	
Methylene Chloride	**5.9J**	ug/m3	6.5	0.99	1.83		03/10/17 19:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.2J**	ug/m3	7.6	0.40	1.83		03/10/17 19:44	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/10/17 19:44	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.d
Report Date: 13-Mar-2017 15:52

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06911.d
Lab Smp Id: 10380372005
Inj Date : 10-MAR-2017 19:44
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 11
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	2.133	2.130	(0.503)	4601	0.07790	0.143	
5	Dichlorodifluoromethane	85	2.149	2.149	(0.506)	23335	0.31276	0.572	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	2.492	2.499	(0.587)	125027	23.9970	43.9	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.598	2.605	(0.612)	23231	0.29764	0.545	
17	Acrolein	56	2.611	2.608	(0.615)	11325	1.70828	3.13	
18	Acetone	43	2.640	2.637	(0.622)	733813	17.9797	32.9	
19	Isopropyl Alcohol	45	2.662	2.672	(0.627)	371032	14.0352	25.7(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	2.816	2.829	(0.664)	23344	0.64907	1.19	
22	Freon 113	101	2.820	2.823	(0.664)	52207	0.85316	1.56	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.d
Report Date: 13-Mar-2017 15:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	2.861	2.871	(0.674)	43059	0.91212	1.67	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.266	3.269	(0.769)	1720070	9.54742	9.55	
	33 Methyl Ethyl Ketone	72	3.336	3.336	(0.786)	22515	2.08670	3.82(QM)	
	34 n-Hexane	57	3.343	3.349	(0.788)	15251	0.39094	0.715(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	3.455	3.468	(0.814)	20682	0.82604	1.51	
	37 Ethyl Acetate	43	3.481	3.477	(0.820)	82951	1.32897	2.43(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	3.551	3.567	(0.837)	25165	0.39799	0.728	
	40 Tetrahydrofuran	42	3.715	3.705	(0.875)	11183	0.35501	0.650(Q)	
	41 1,1,1-Trichloroethane	97	3.895	3.901	(0.918)	8446	0.13279	0.243	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	4.094	4.106	(0.964)	7249	0.09707	0.178(Q)	
	45 Carbon tetrachloride	117	4.110	4.119	(0.968)	3536	0.05906	0.108	
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.244	4.247	(1.000)	3393597	10.0000		
	48 2,2,4-Trimethylpentane	57	4.376	4.373	(1.031)	9665	158.681	290(A)	
	49 Heptane	43	4.485	4.491	(1.057)	7141	0.12249	0.224(QM)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	4.565	4.572	(1.076)	1889053	46.0827	84.3(A)	
	52 Methyl methacrylate	69	4.655	4.652	(1.097)	8922	0.32940	0.603(M)	
	53 Bromodichloromethane	83	Compound Not Detected.						(D)
	54 1,4-Dioxane	88	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	5.095	5.091	(1.200)	29270	0.28898	0.529	
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.566	(1.310)	3252031	9.56353	9.56	
	60 Toluene	91	5.631	5.634	(1.327)	613908	6.11941	11.2	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	5.897	5.881	(0.839)	10541	0.17107	0.313	
	63 n-Octane	43	6.057	6.054	(0.862)	20881	0.32590	0.596(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.404	6.407	(0.911)	1662630	29.1283	53.3	
*	67 Chlorobenzene - d5	117	7.030	7.033	(1.000)	2581924	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.312	7.318	(1.040)	11785	0.10403	0.190	
	70 m&p-Xylene	91	7.453	7.460	(1.060)	36467	0.28213	0.516	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.861	7.861	(1.118)	4777	0.08080	0.148(M)	
	73 Styrene	104	7.870	7.867	(1.120)	5229	0.09099	0.167	
	74 o-Xylene	91	7.931	7.931	(1.128)	13594	0.14555	0.266	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	8.499	8.499	(1.209)	4029	0.03485	0.0638(a)	
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.d
Report Date: 13-Mar-2017 15:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.825	9.828	(1.398)	22572	0.14307	0.262	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.197	(1.450)	1446774	9.14573	9.15	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.960	12.953	(1.843)	19306	0.71356	1.31	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.d
Report Date: 13-Mar-2017 15:52

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06911.d
Lab Smp Id: 10380372005
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 10-MAR-2017
Calibration Time: 14:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

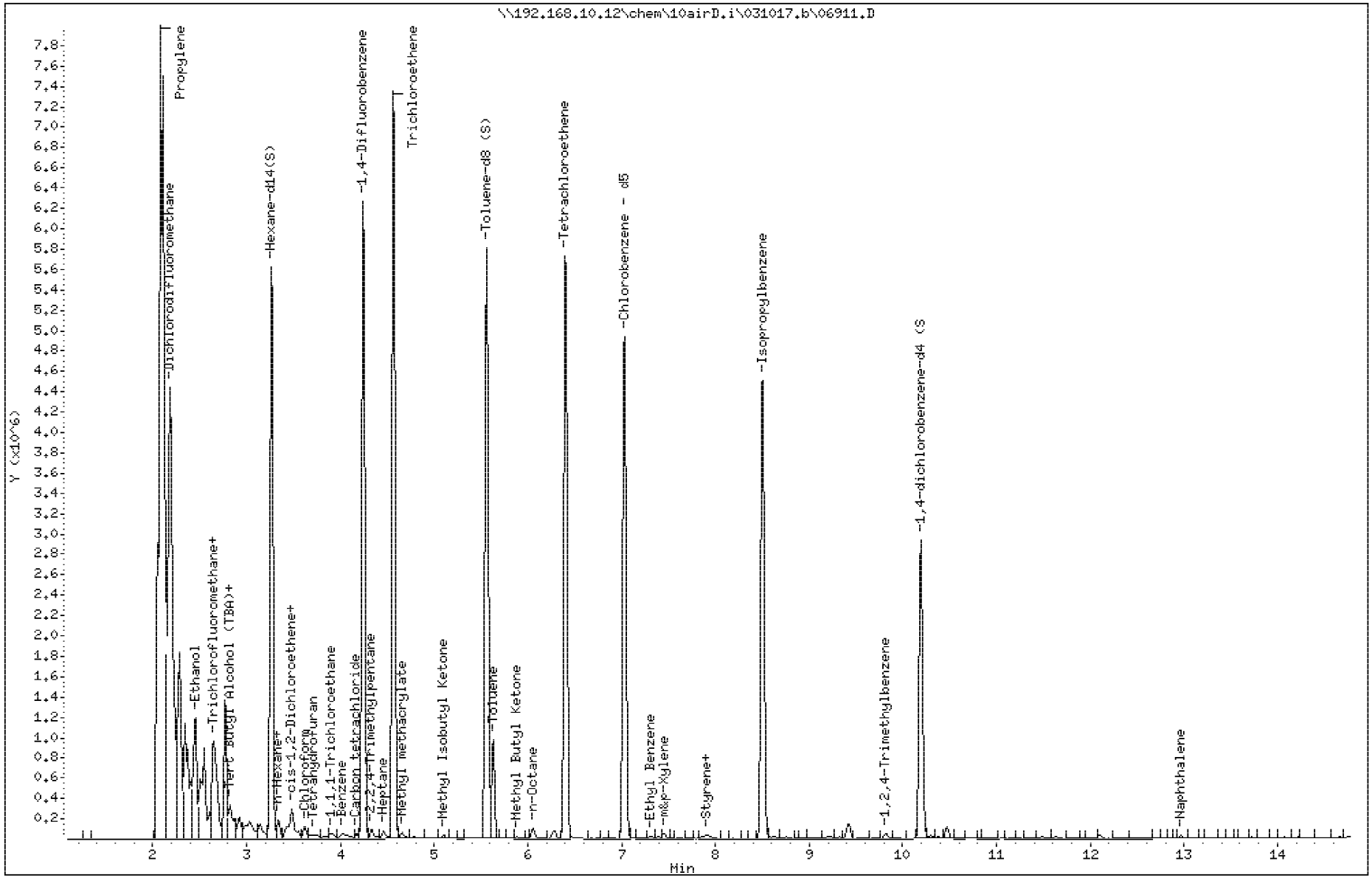
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3393597	-10.40
67 Chlorobenzene - d	3280875	1968525	4593225	2581924	-21.30

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.07
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D
Date : 10-MAR-2017 19:44
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

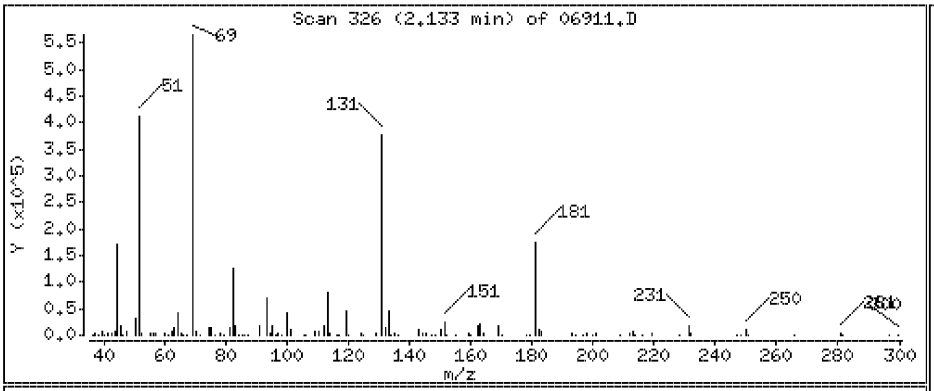
Operator: DR1

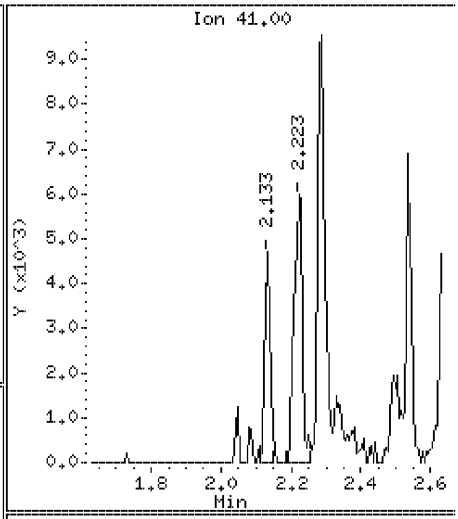
Column phase: J&W DB-5

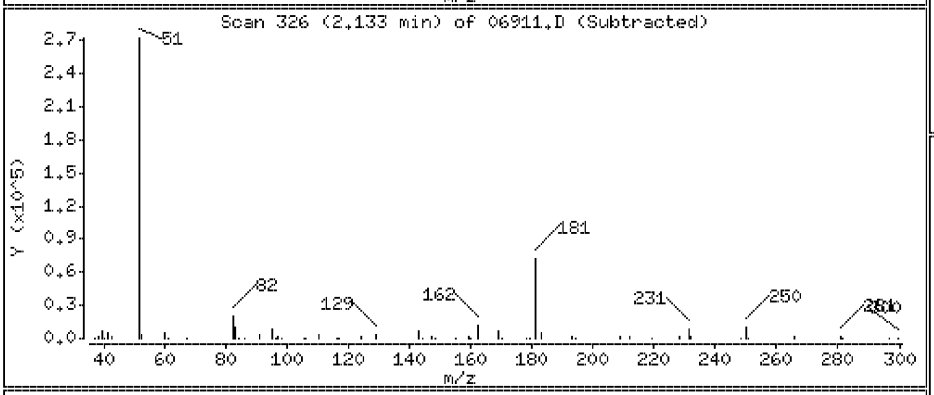
Column diameter: 0.32

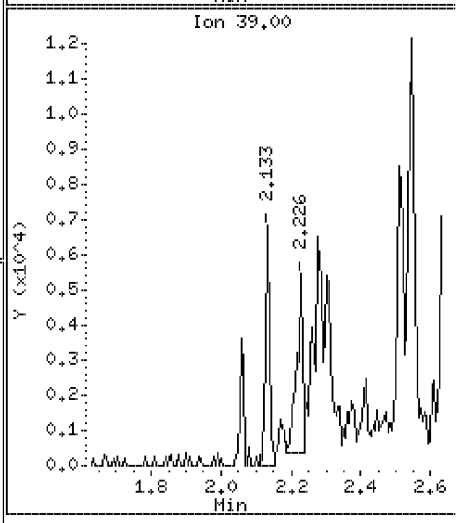
4 Propylene

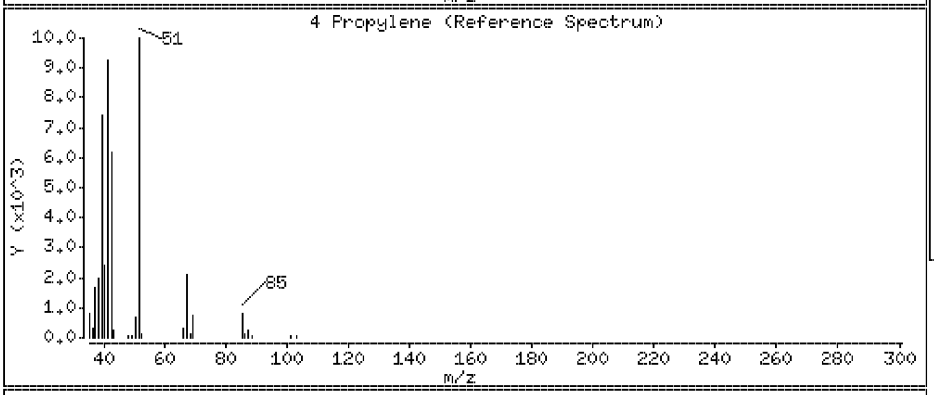
Concentration: 0.143 ppbv

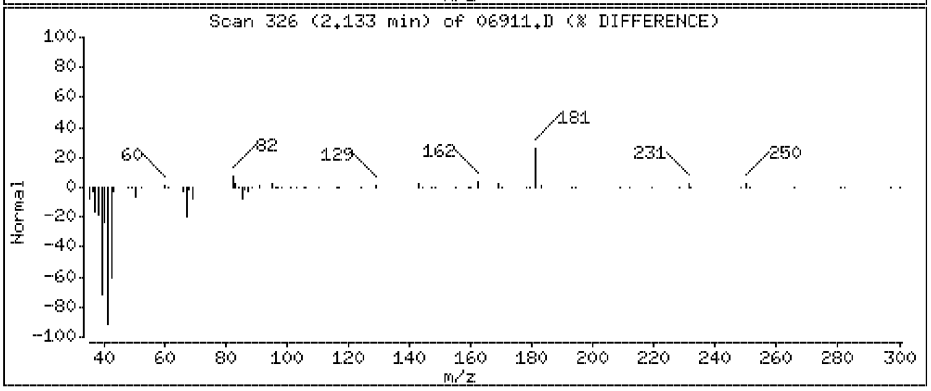












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

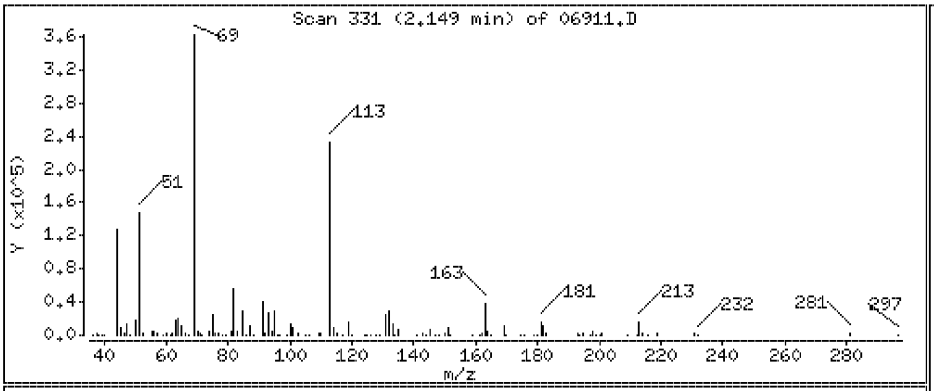
Operator: DR1

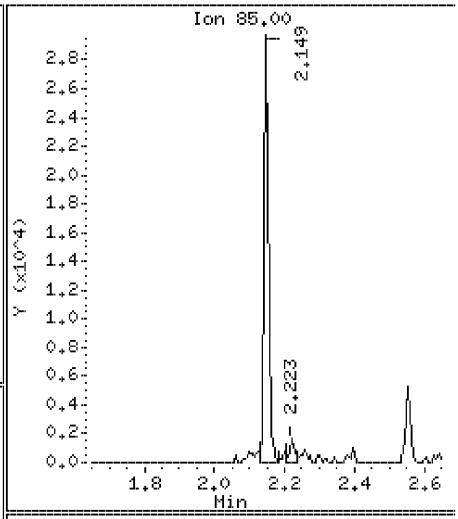
Column phase: J&W DB-5

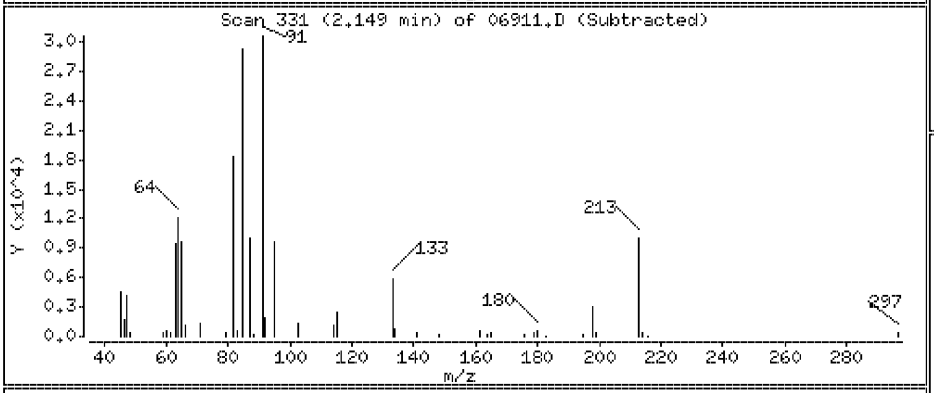
Column diameter: 0.32

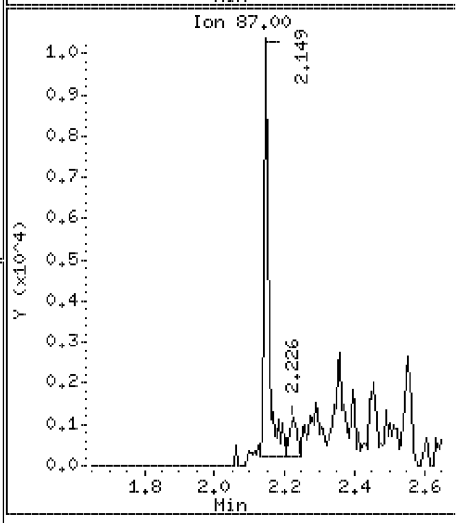
5 Dichlorodifluoromethane

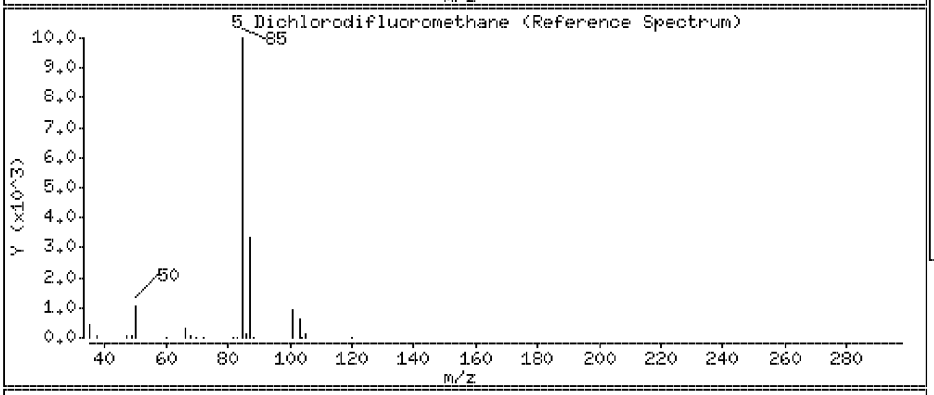
Concentration: 0.572 ppbv

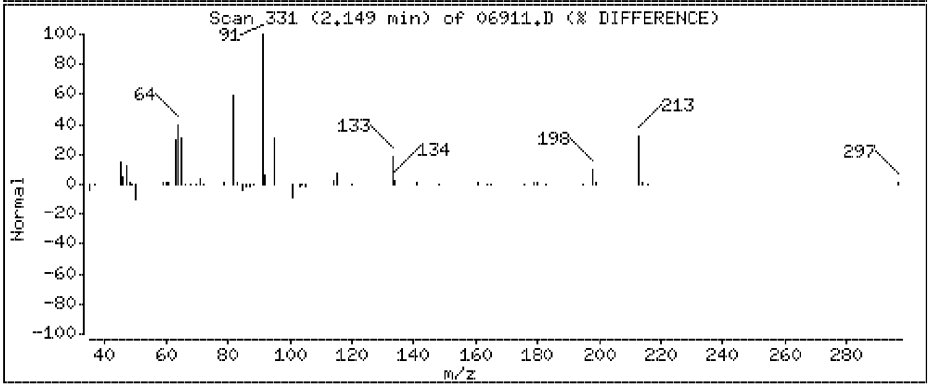












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

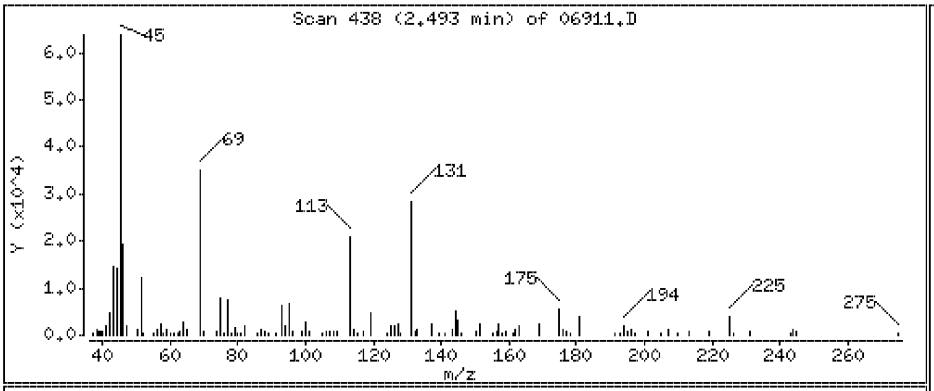
Operator: DR1

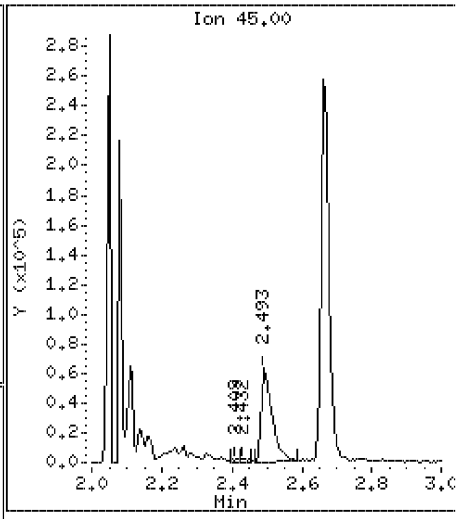
Column phase: J&W DB-5

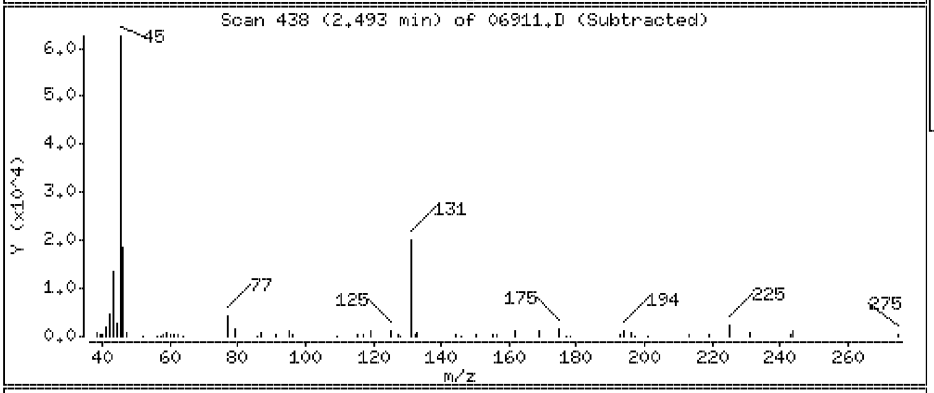
Column diameter: 0.32

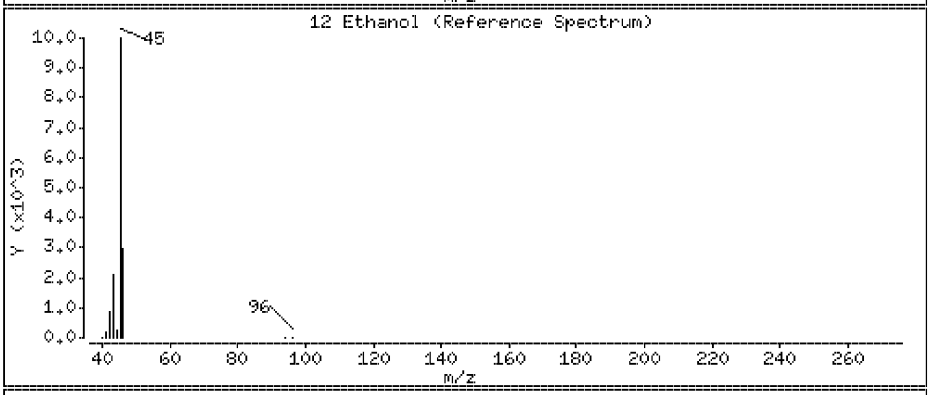
12 Ethanol

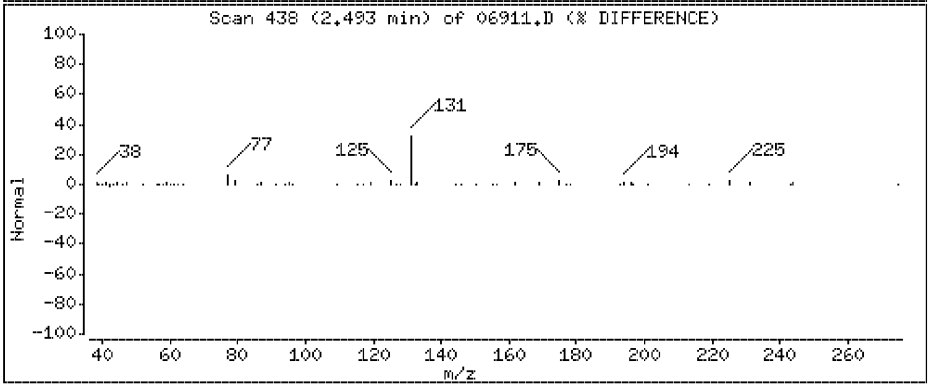
Concentration: 43.9 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

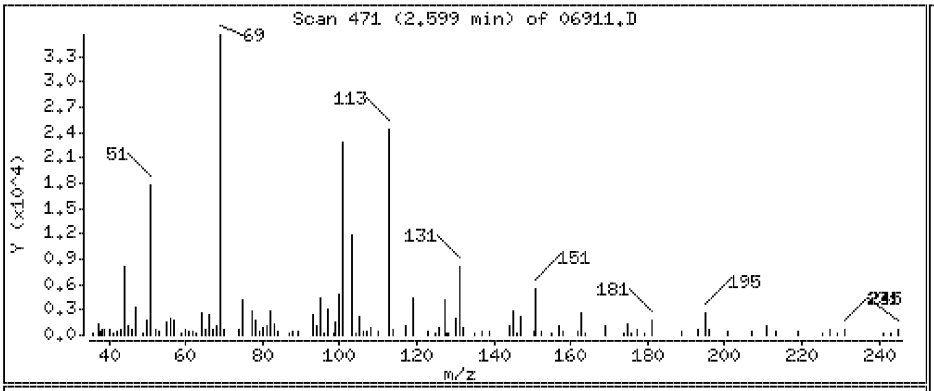
Operator: DR1

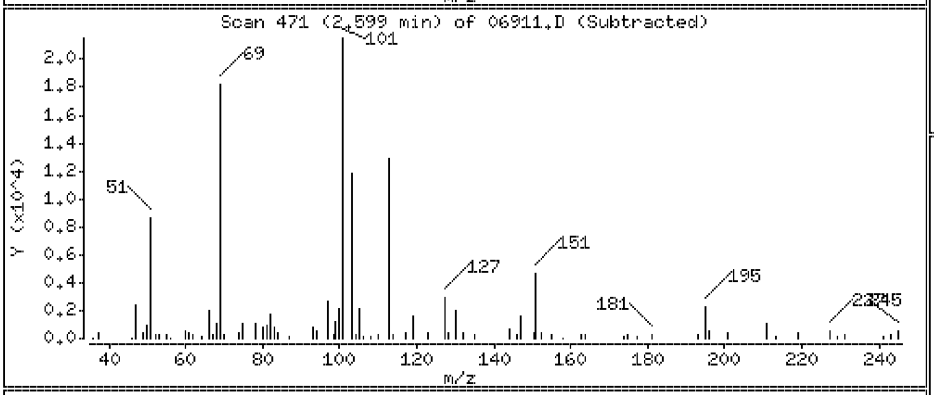
Column phase: J&W DB-5

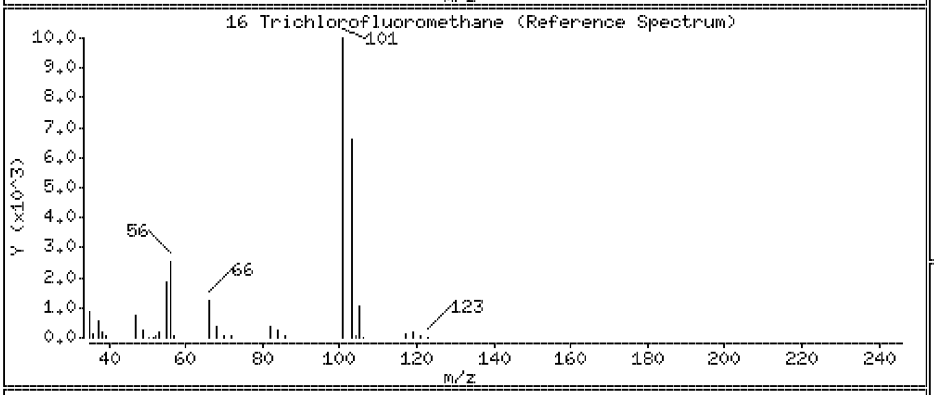
Column diameter: 0.32

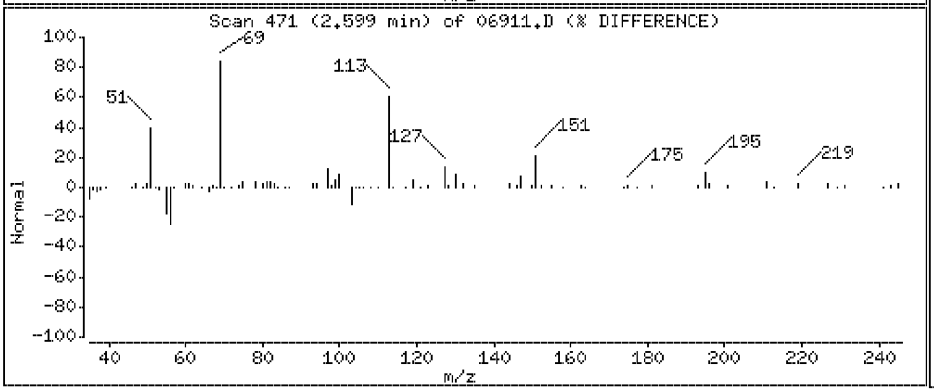
16 Trichlorofluoromethane

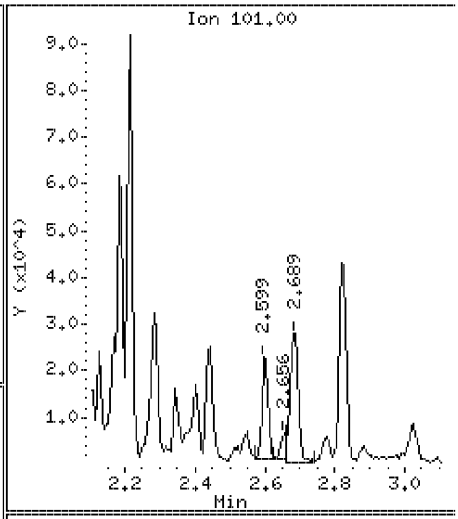
Concentration: 0.545 ppbv

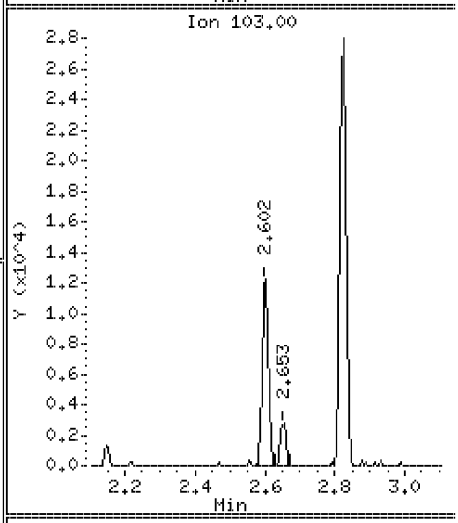


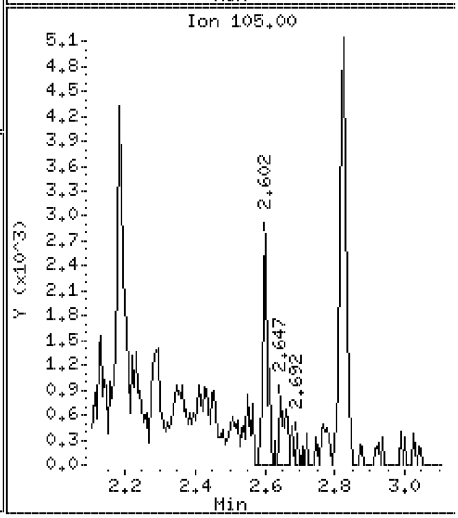












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

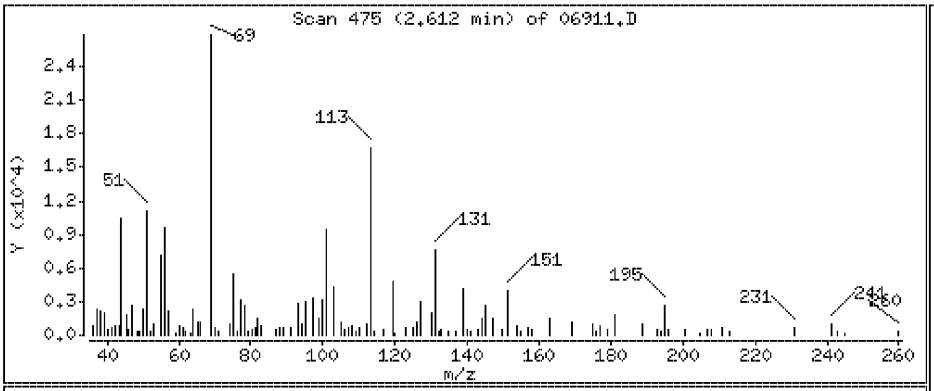
Operator: DR1

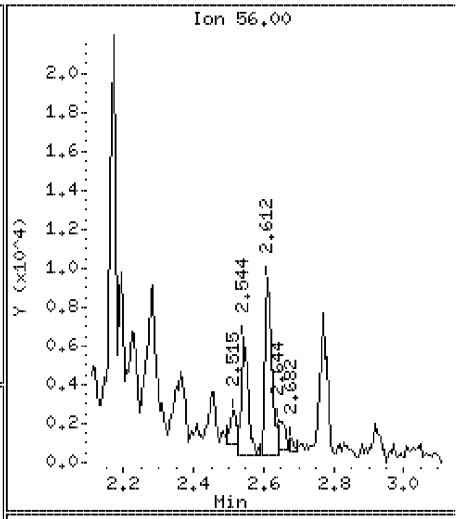
Column phase: J&W DB-5

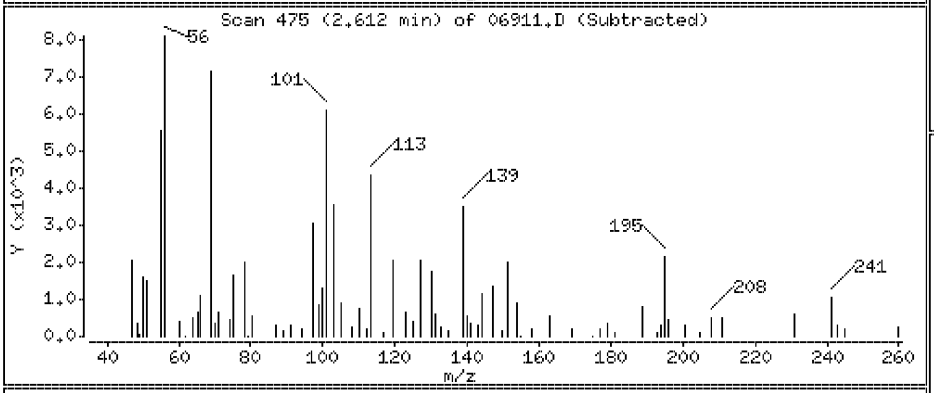
Column diameter: 0.32

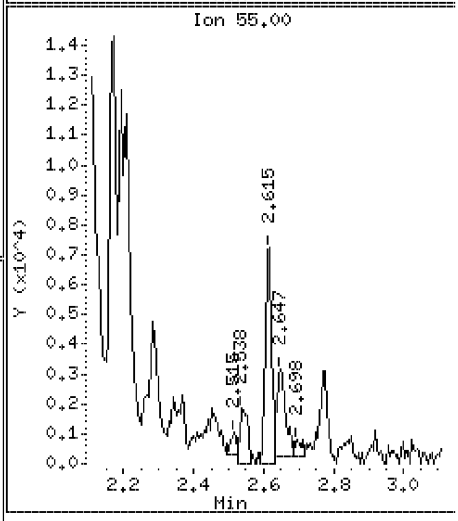
17 Acrolein

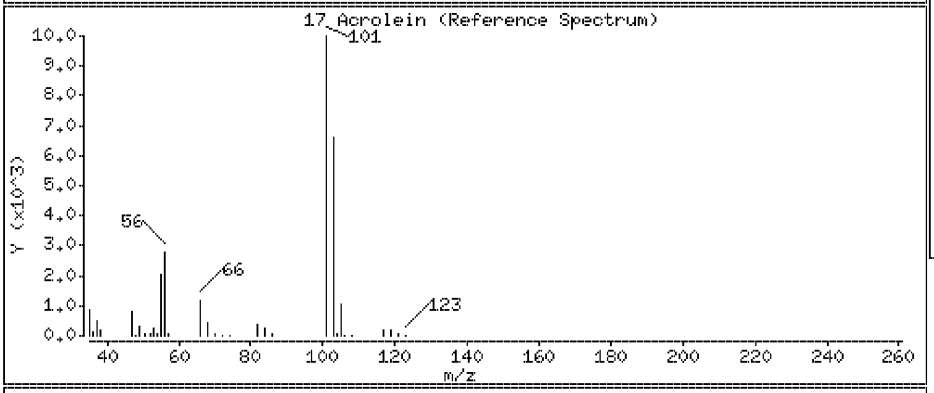
Concentration: 3.13 ppbv

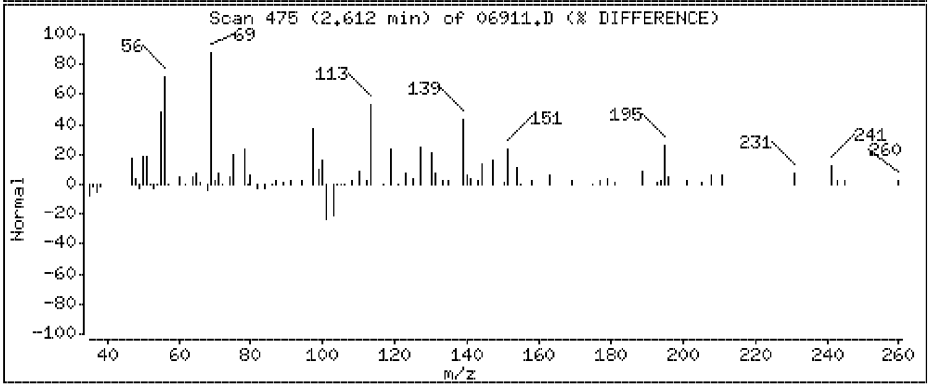












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

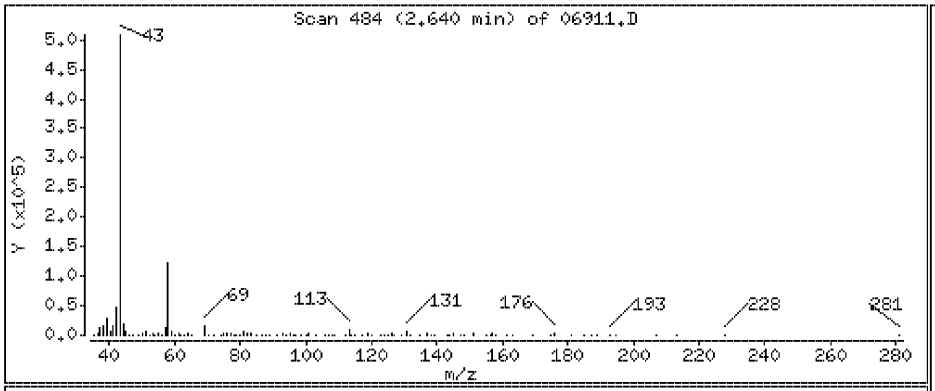
Operator: DR1

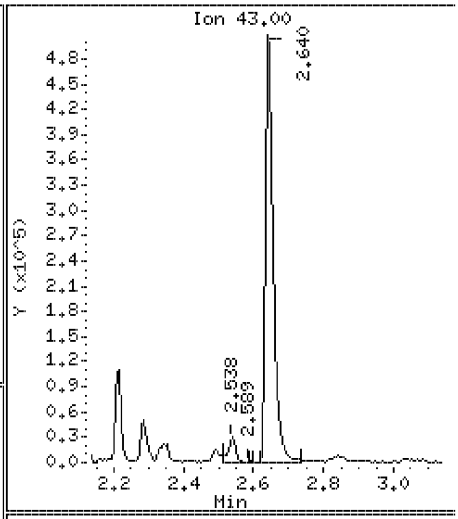
Column phase: J&W DB-5

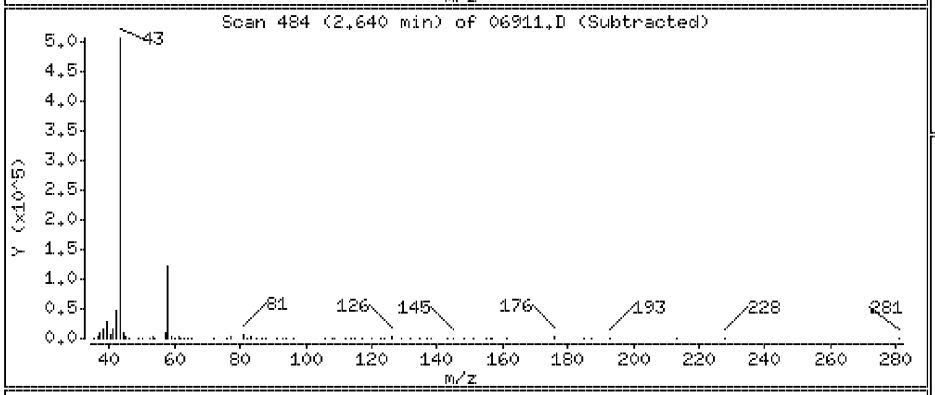
Column diameter: 0.32

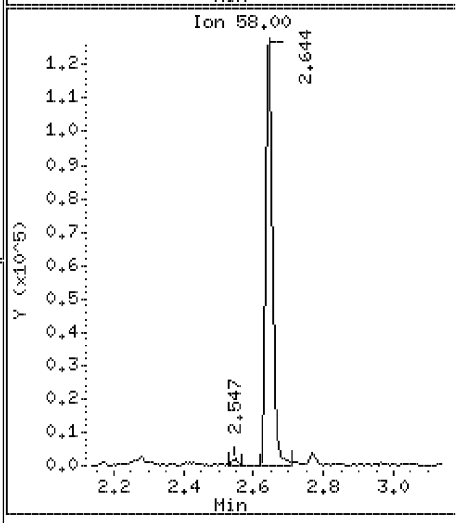
18 Acetone

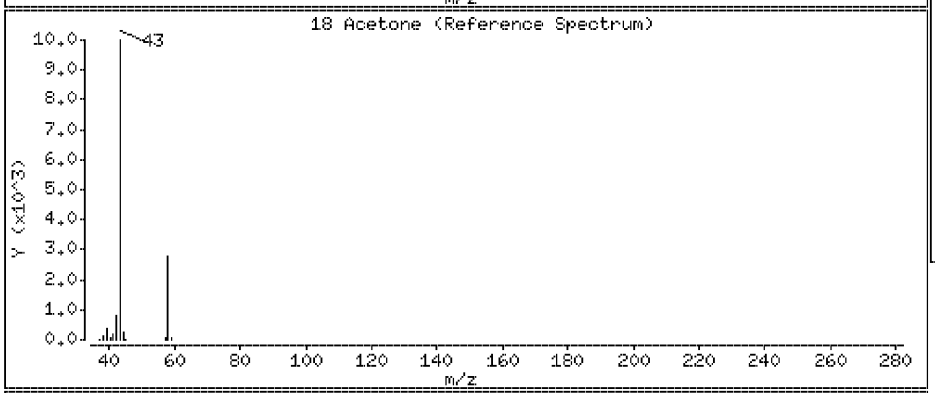
Concentration: 32.9 ppbv

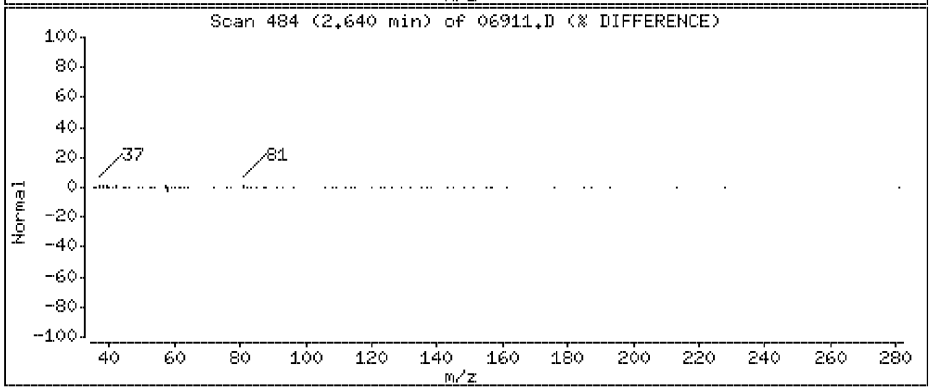












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

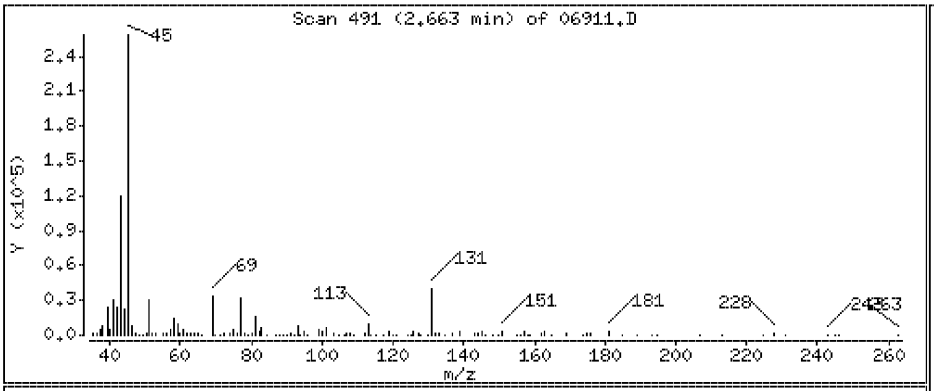
Operator: DR1

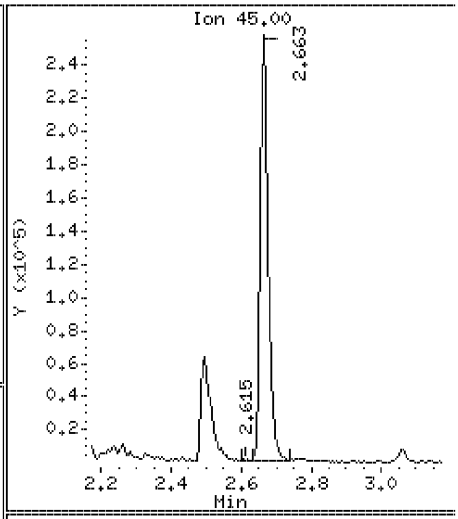
Column phase: J&W DB-5

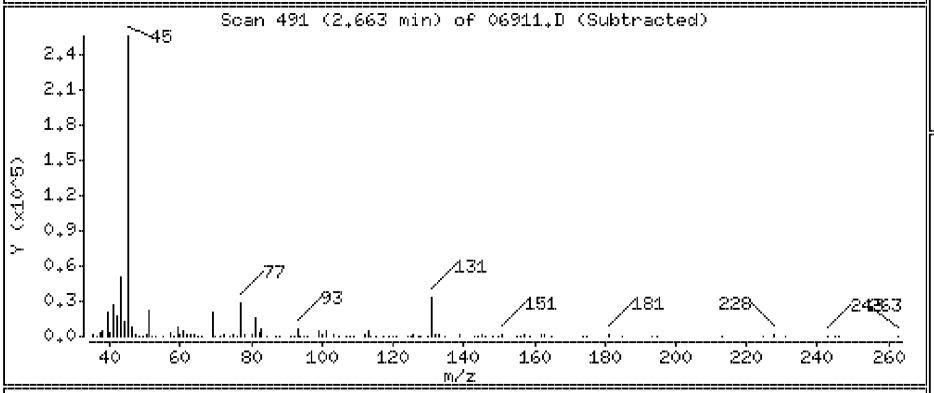
Column diameter: 0.32

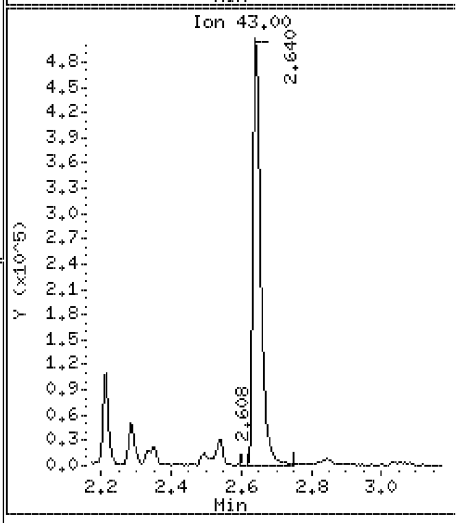
19 Isopropyl Alcohol

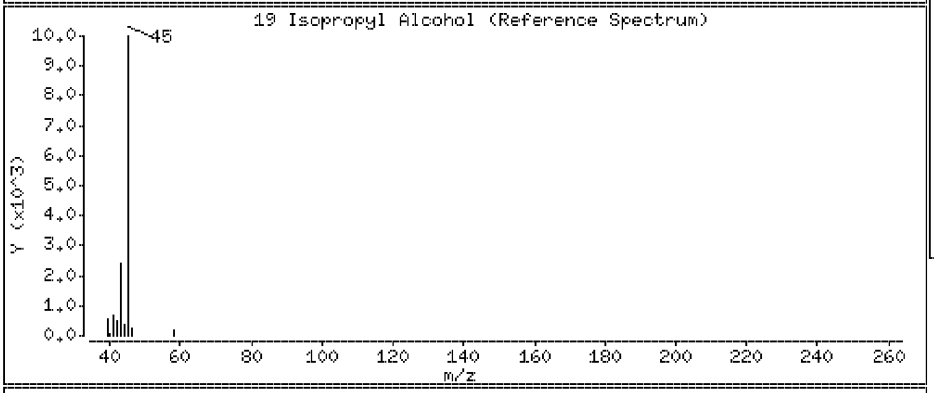
Concentration: 25.7 ppbv

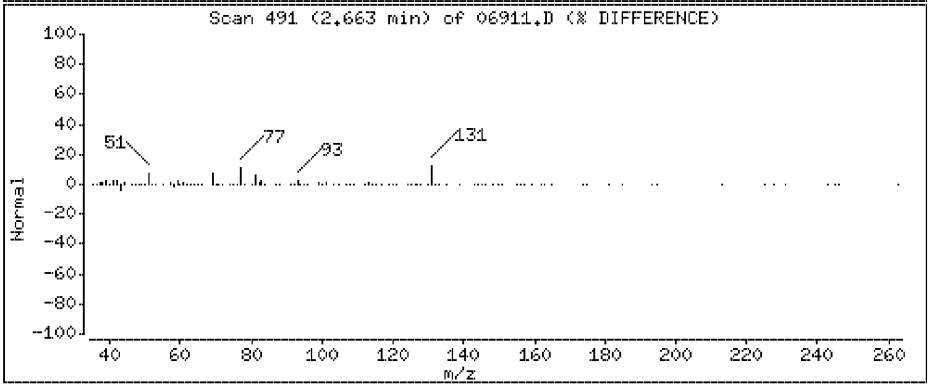












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

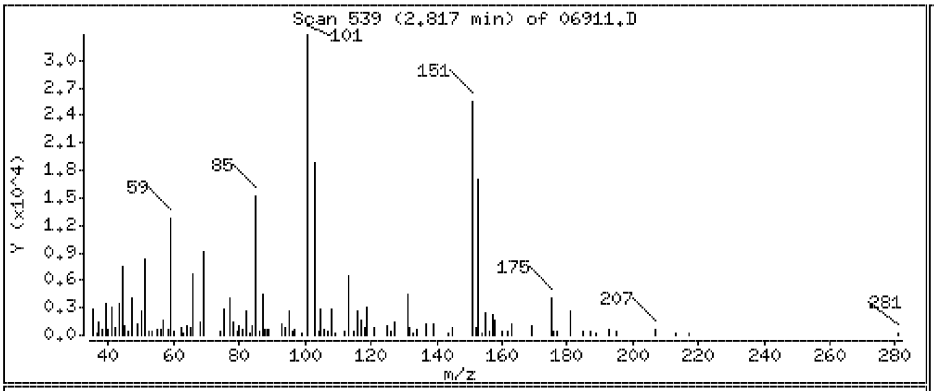
Operator: DR1

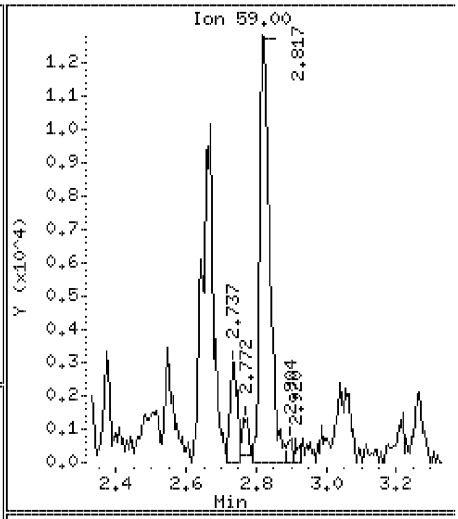
Column phase: J&W DB-5

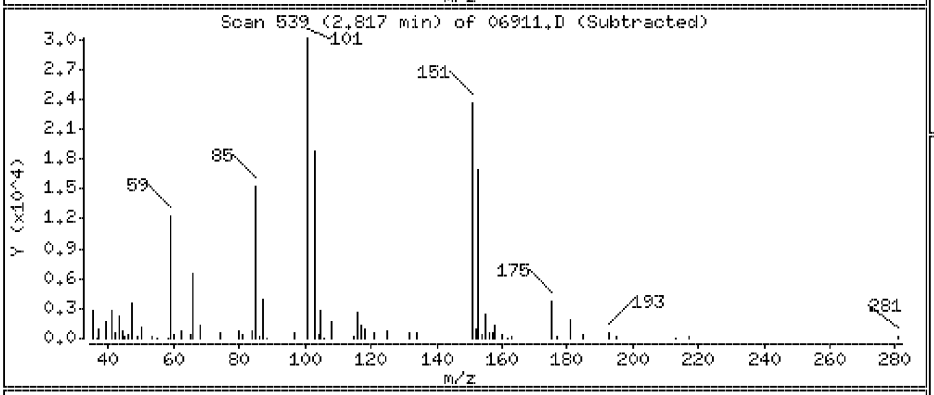
Column diameter: 0.32

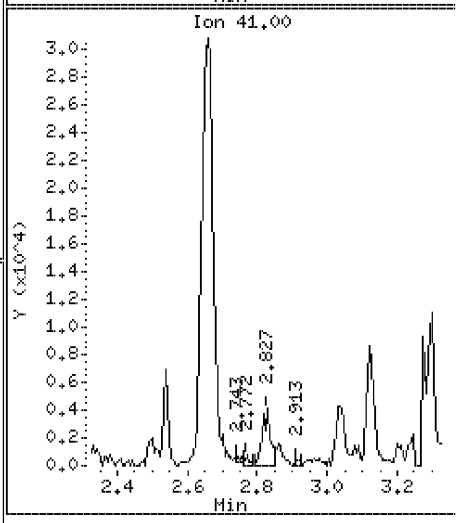
24 Tert Butyl Alcohol (TBA)

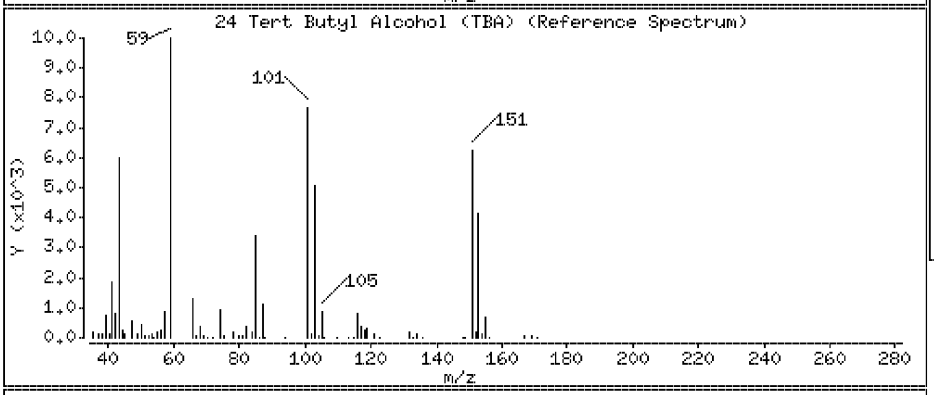
Concentration: 1.19 ppbv

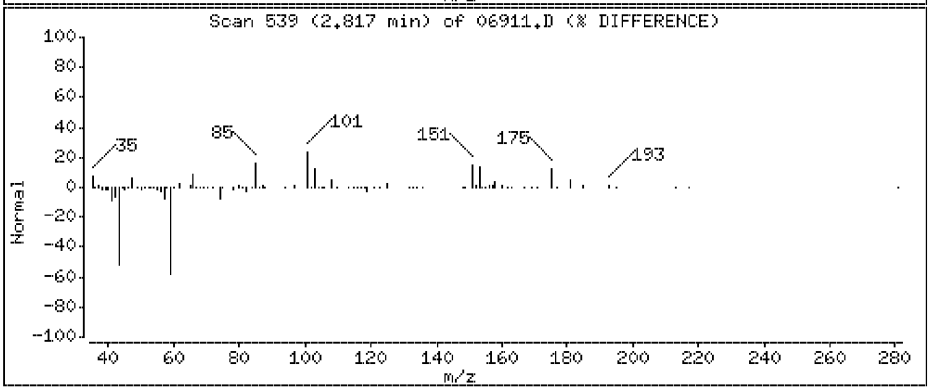












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

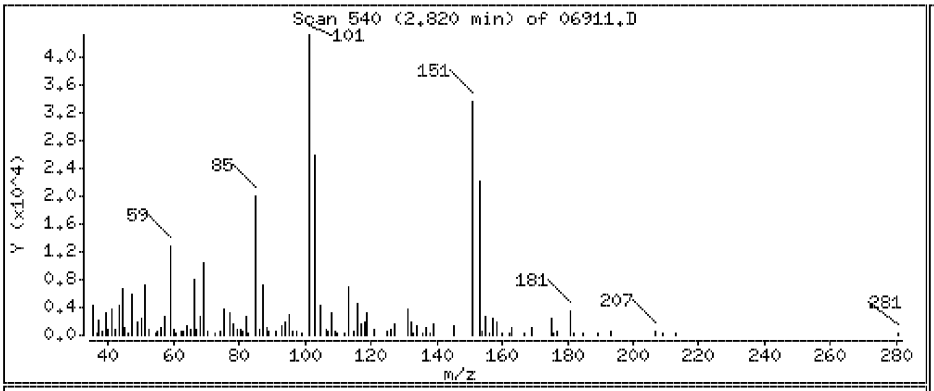
Operator: DR1

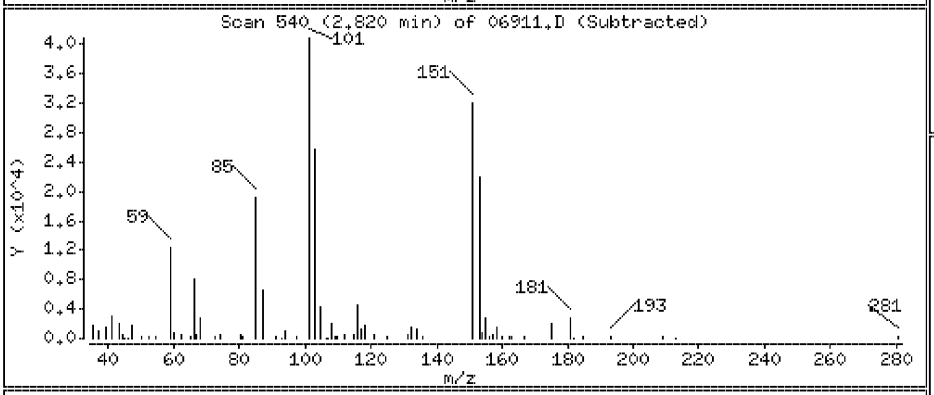
Column phase: J&W DB-5

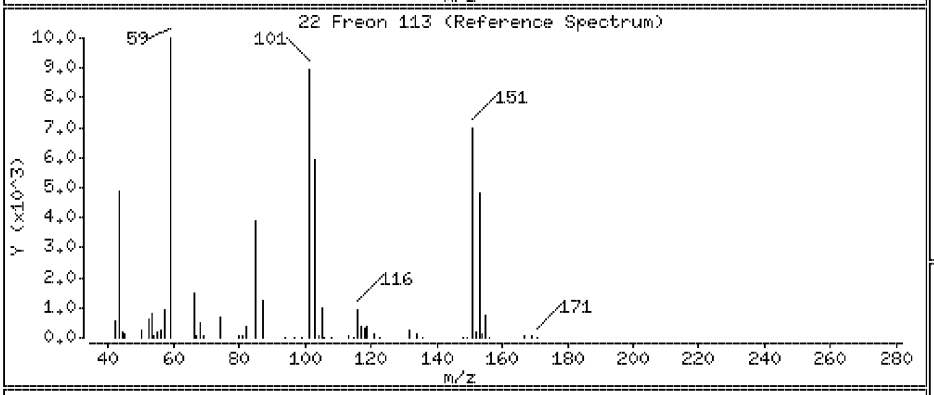
Column diameter: 0.32

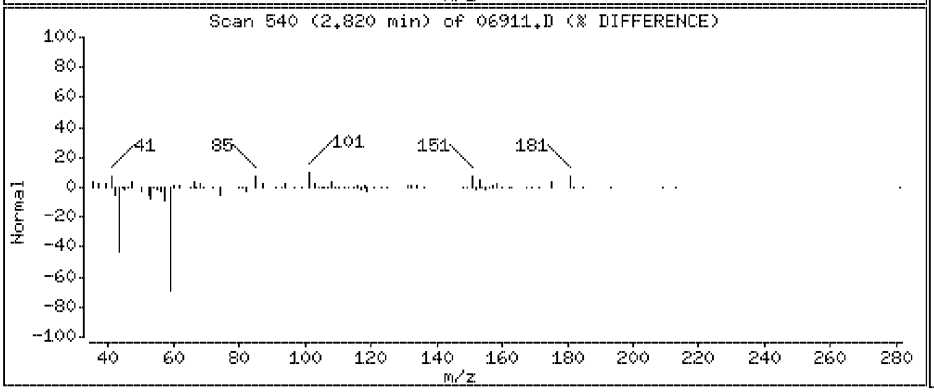
22 Freon 113

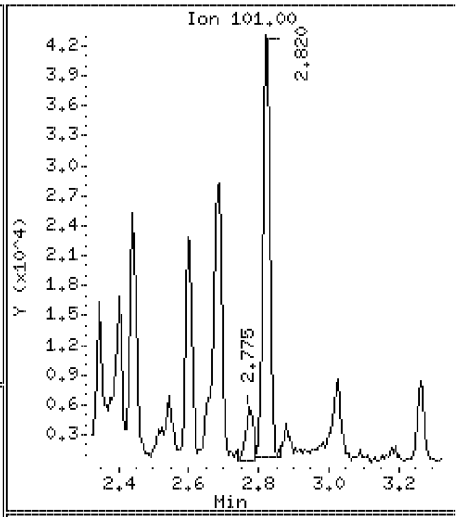
Concentration: 1.56 ppbv

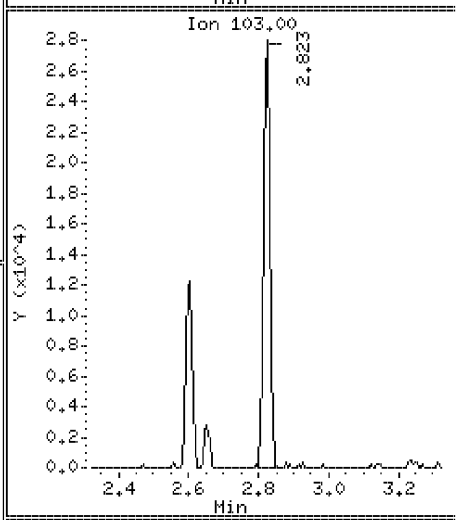


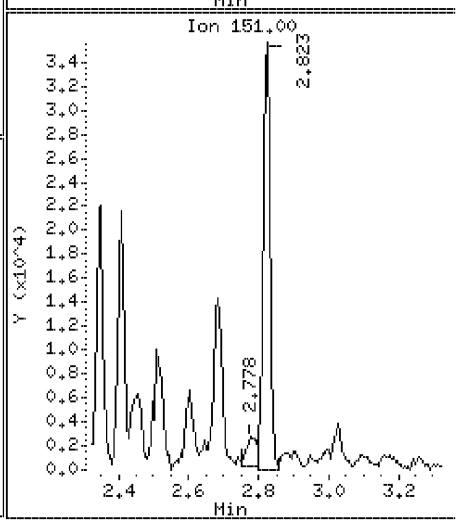












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

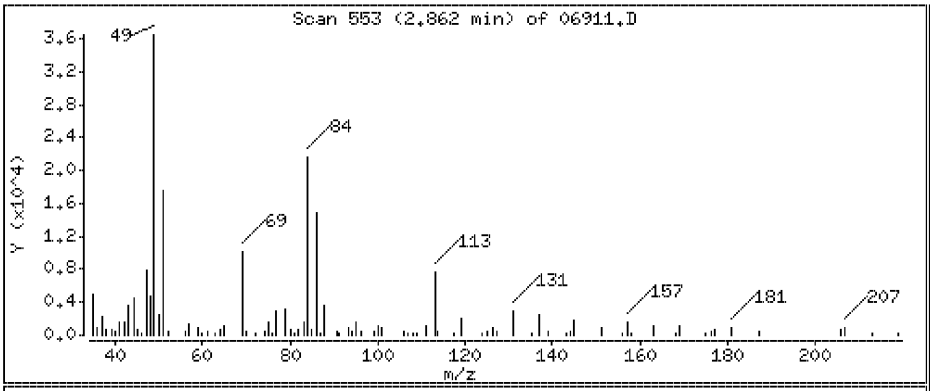
Operator: DR1

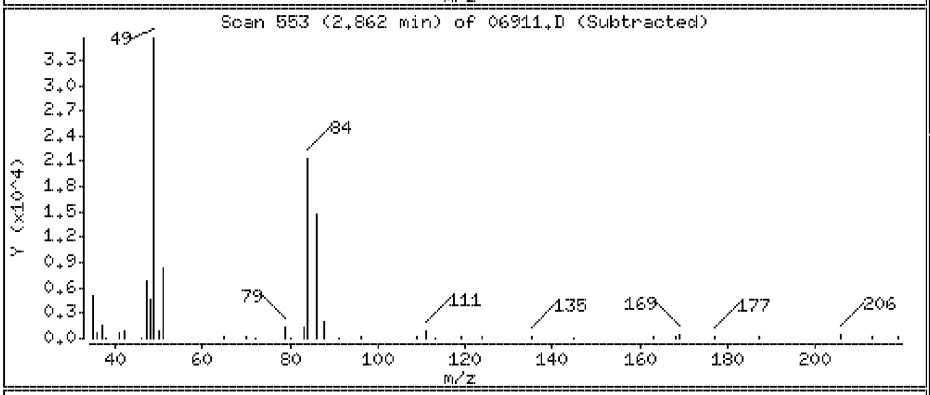
Column phase: J&W DB-5

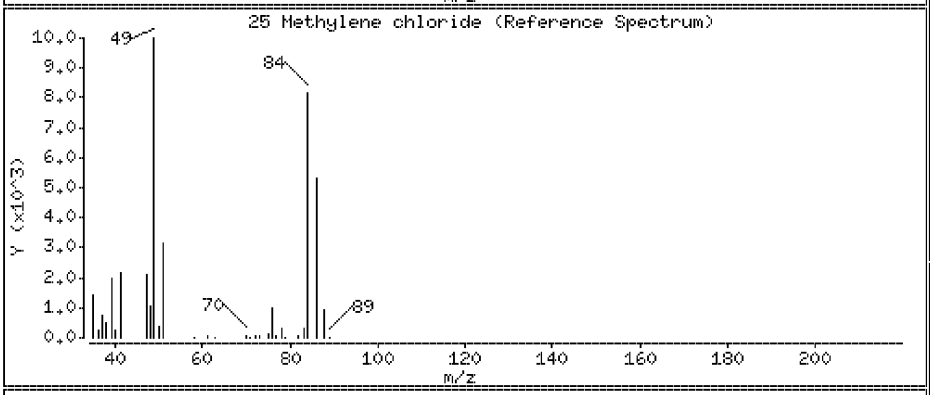
Column diameter: 0.32

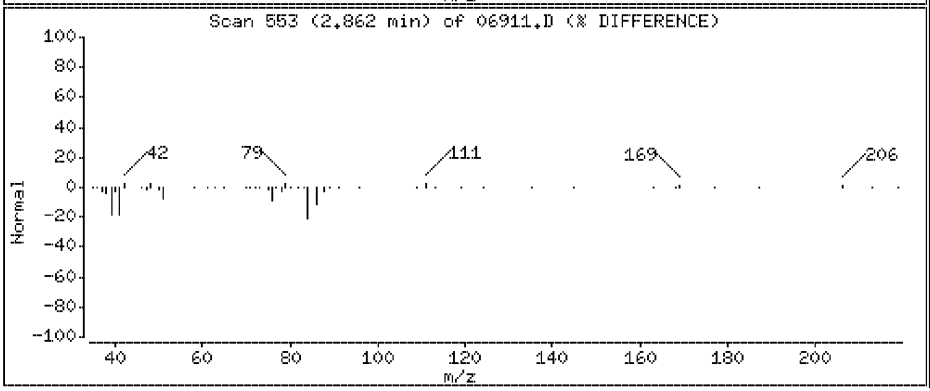
25 Methylene chloride

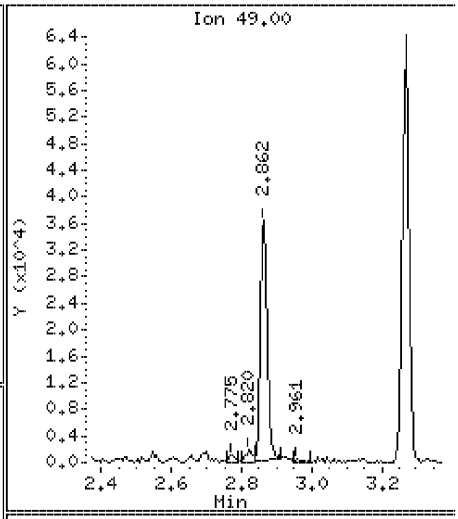
Concentration: 1.67 ppbv

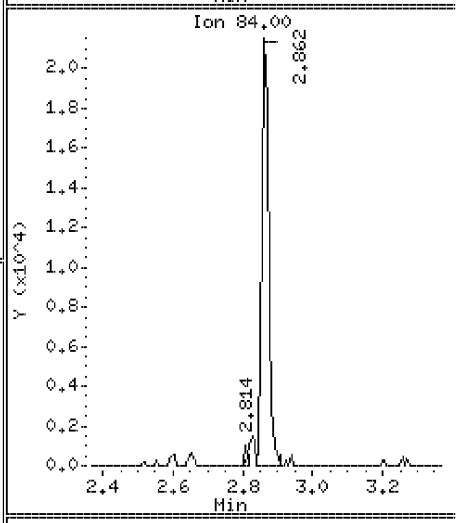


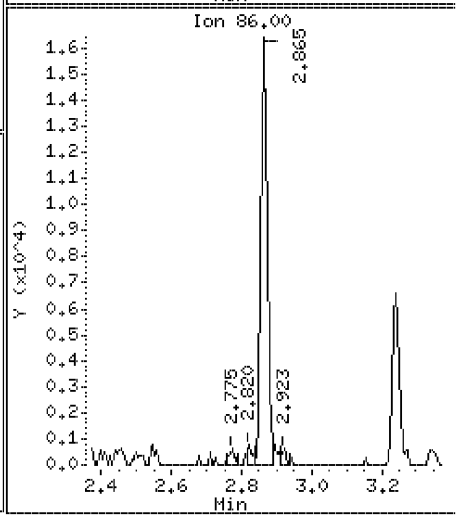












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

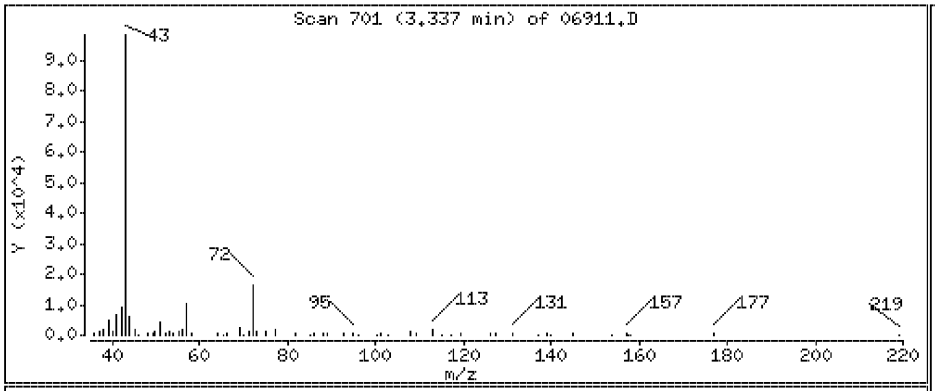
Operator: DR1

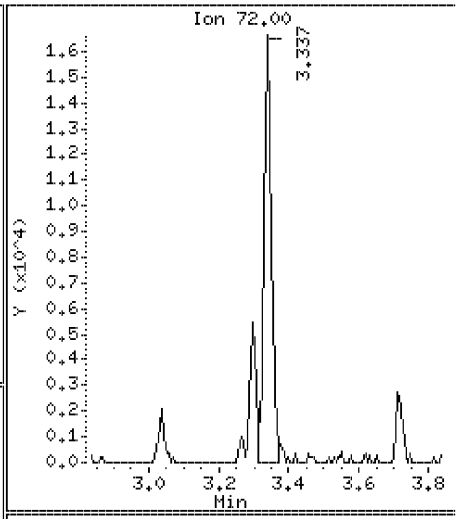
Column phase: J&W DB-5

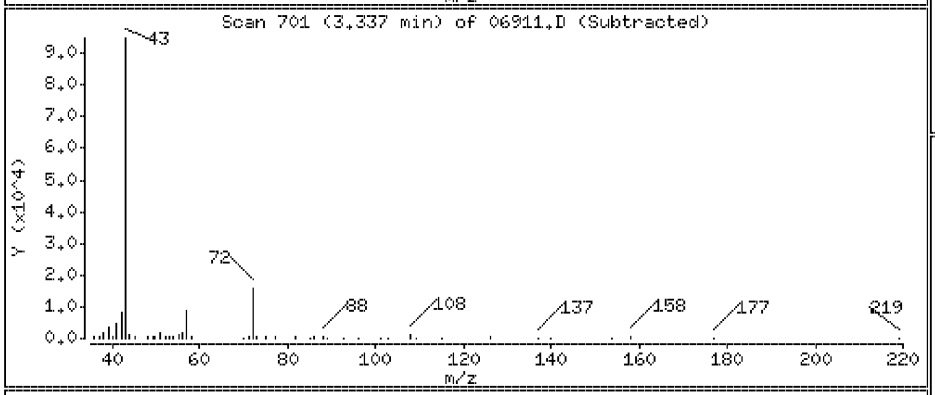
Column diameter: 0.32

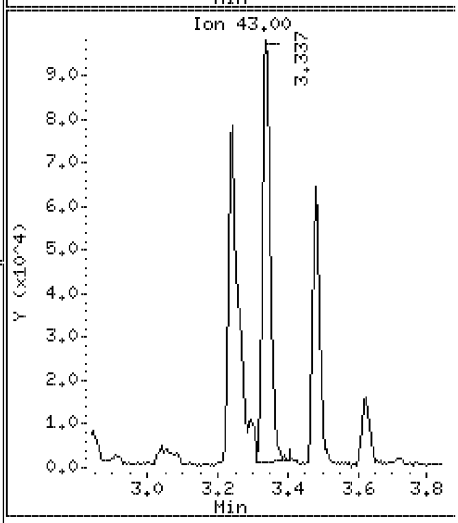
33 Methyl Ethyl Ketone

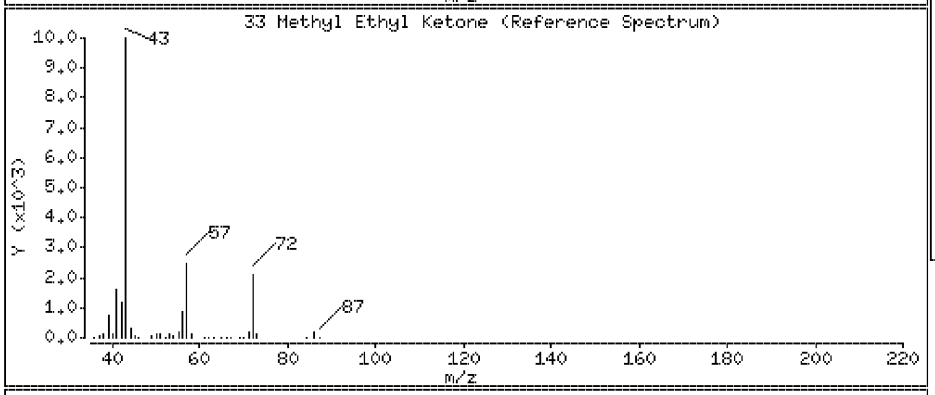
Concentration: 3.82 ppbv

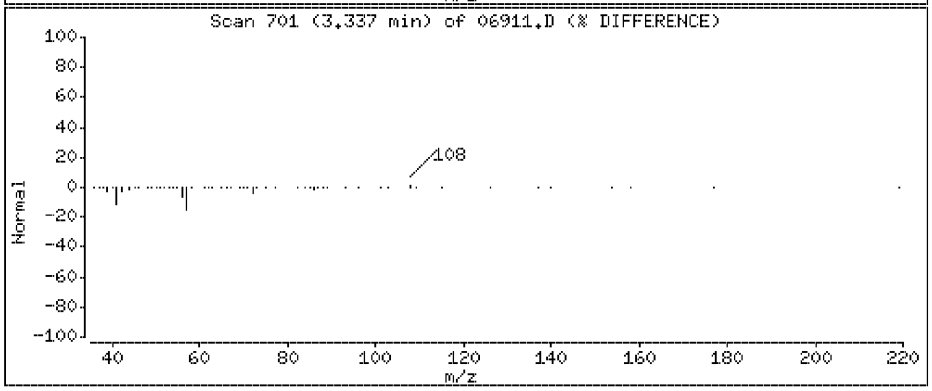












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

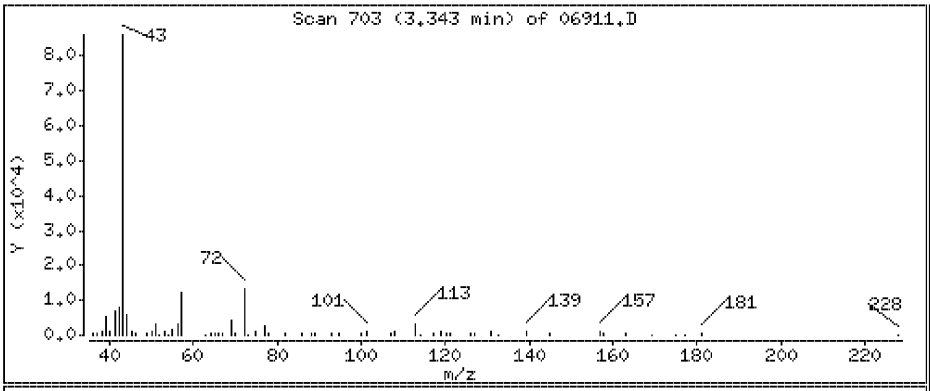
Operator: DR1

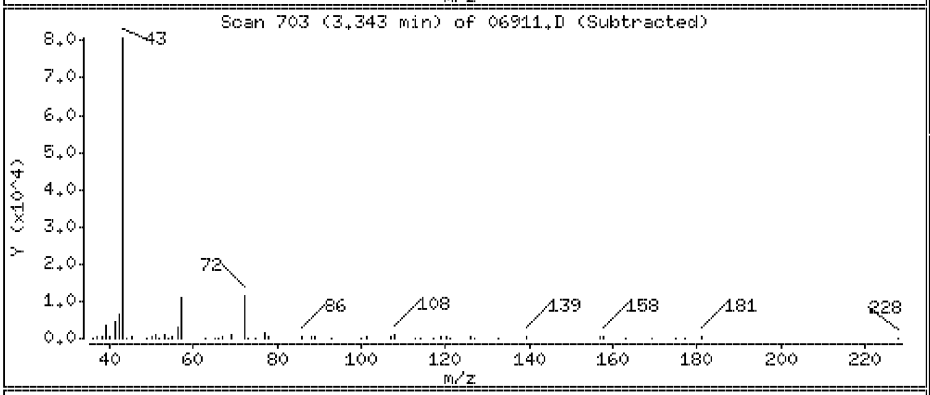
Column phase: J&W DB-5

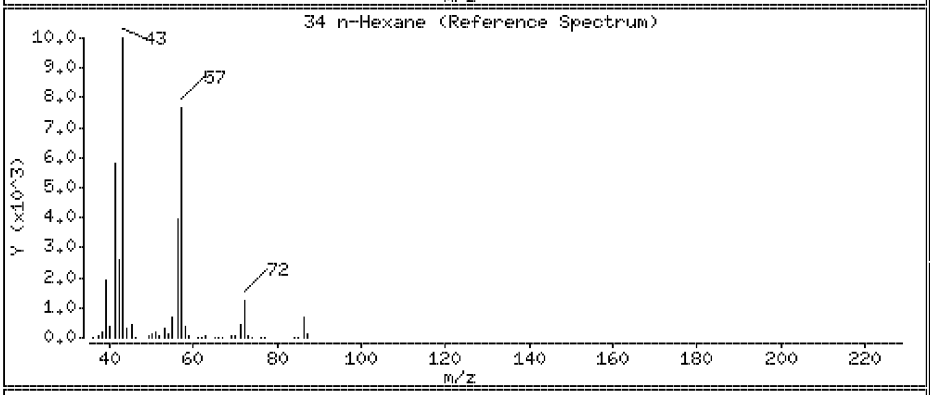
Column diameter: 0.32

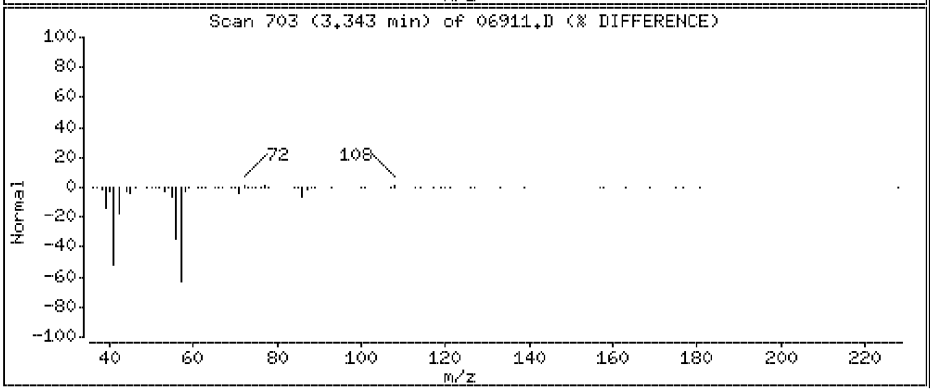
34 n-Hexane

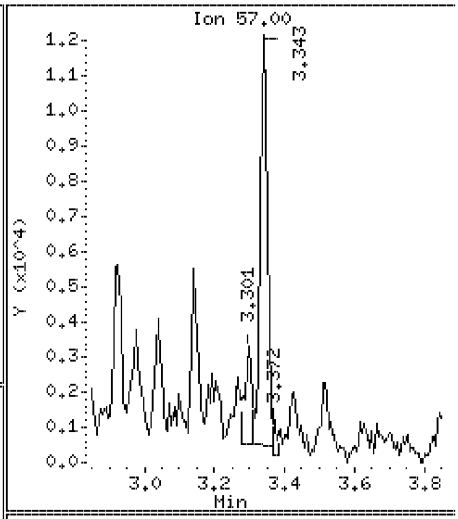
Concentration: 0.715 ppbv

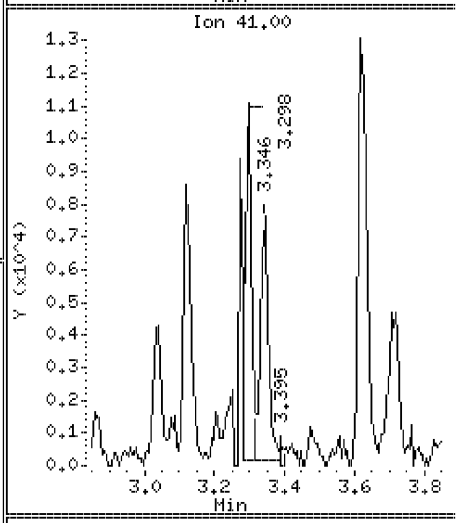


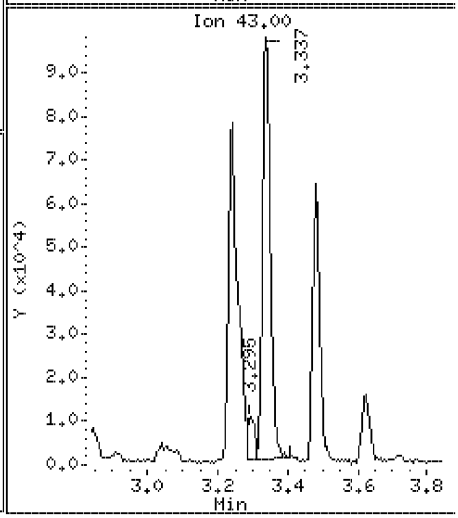












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

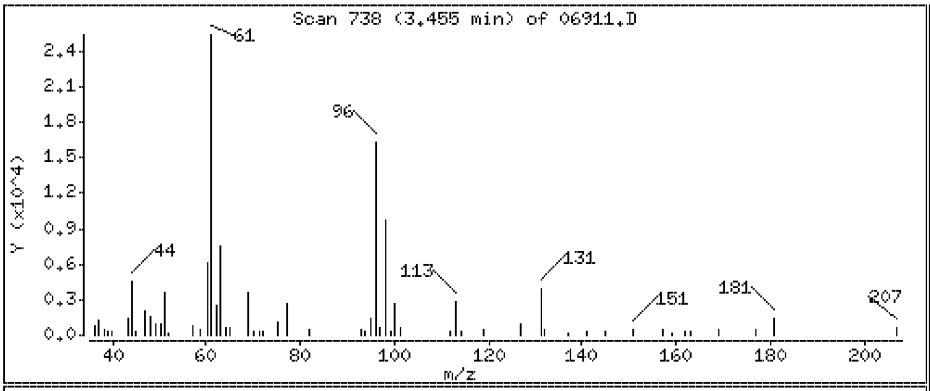
Operator: DR1

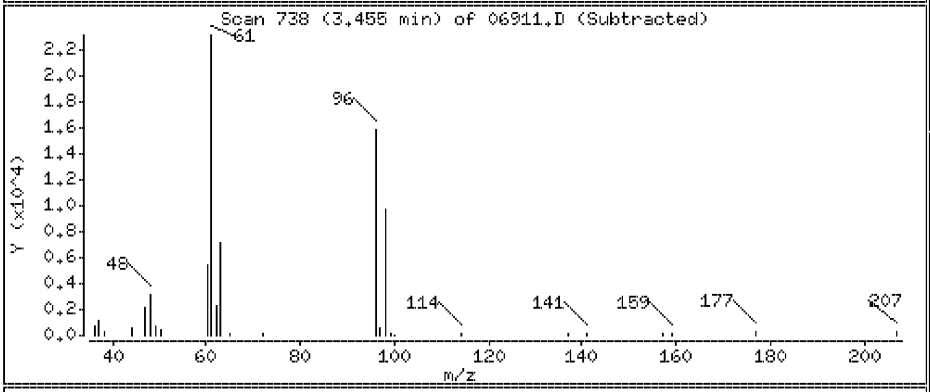
Column phase: J&W DB-5

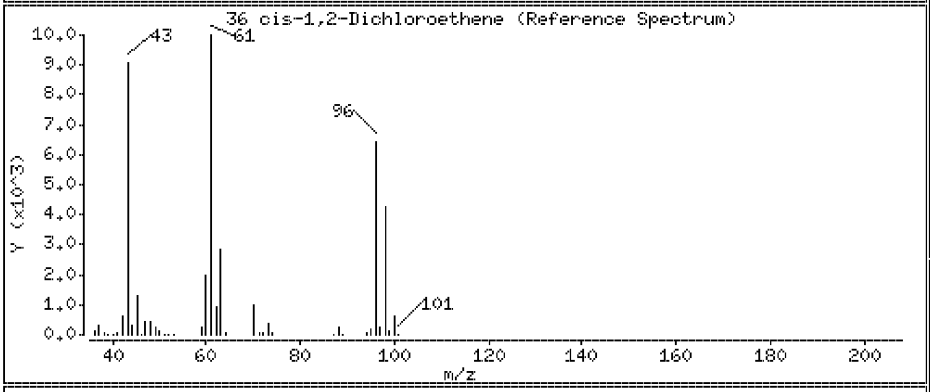
Column diameter: 0.32

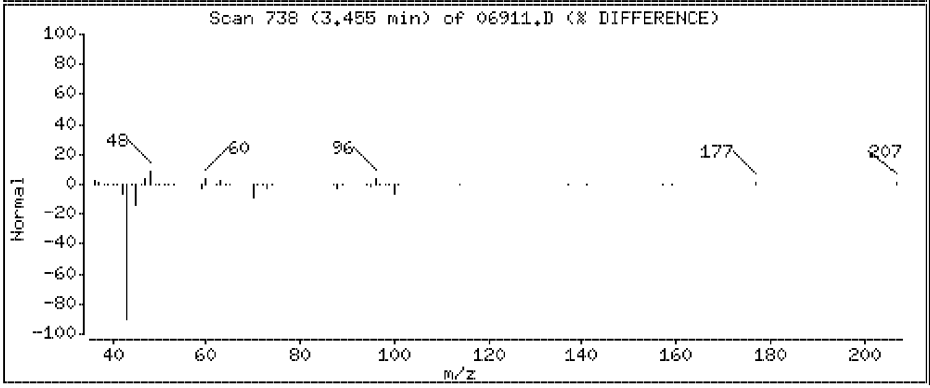
36 cis-1,2-Dichloroethene

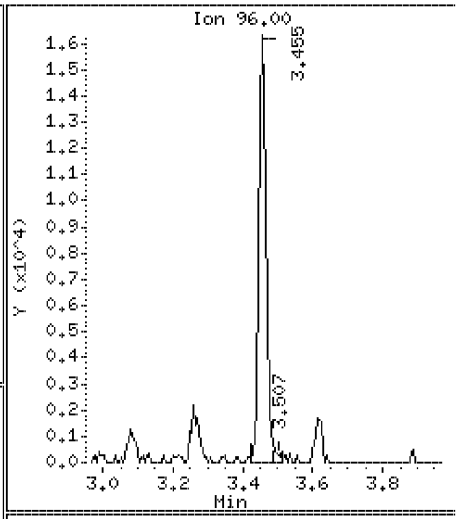
Concentration: 1.51 ppbv

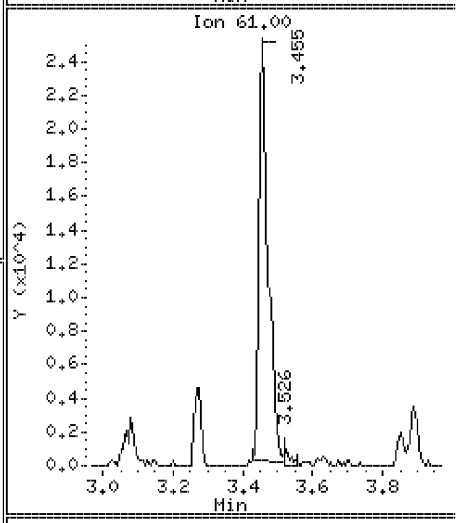


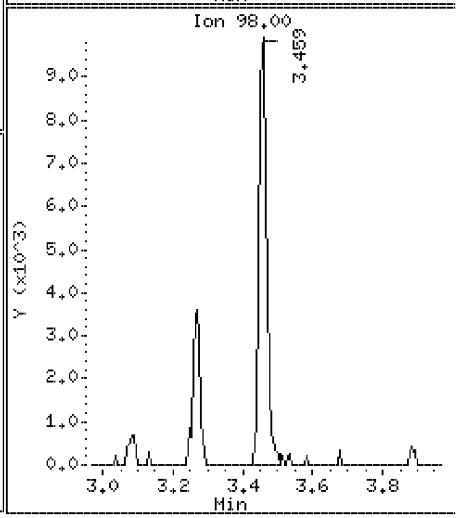












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

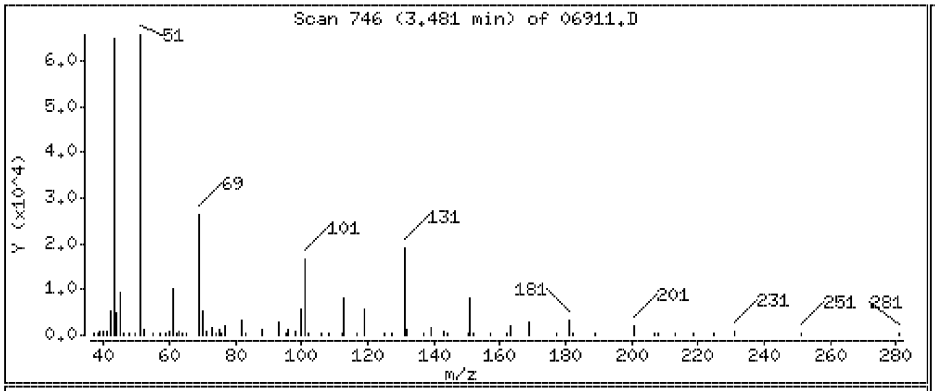
Operator: DR1

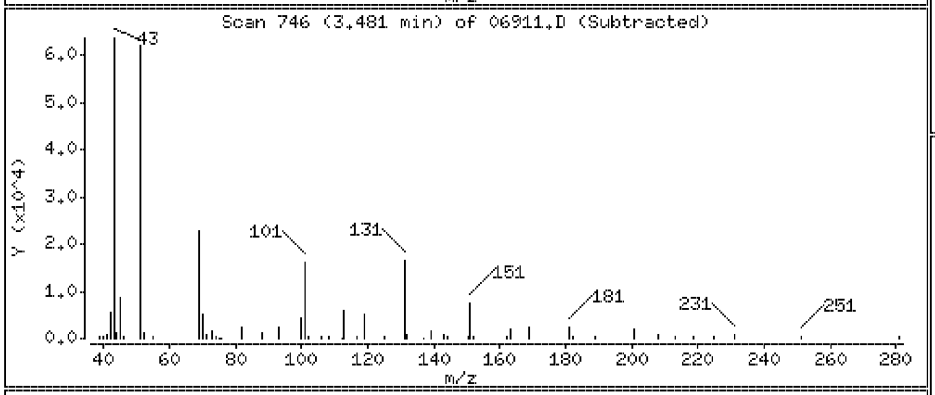
Column phase: J&W DB-5

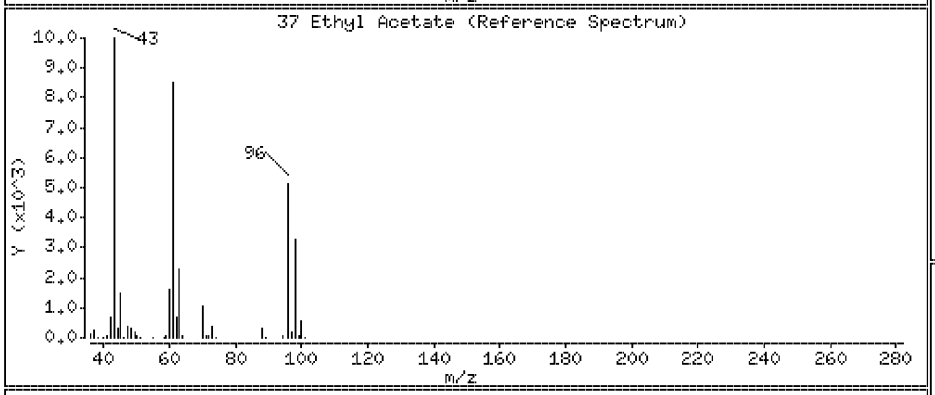
Column diameter: 0.32

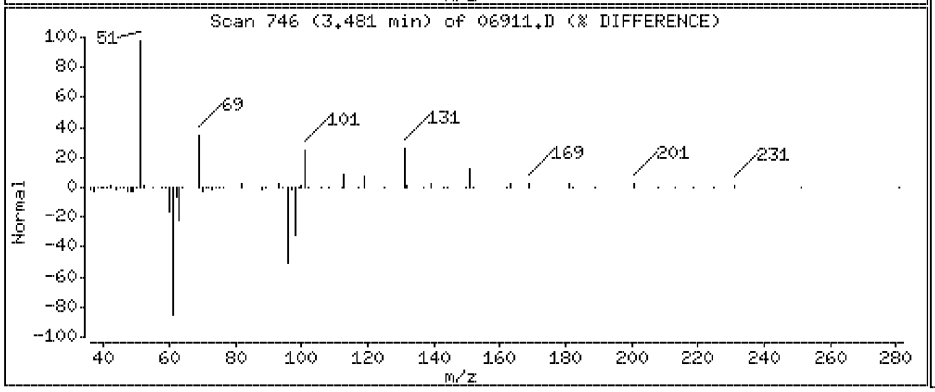
37 Ethyl Acetate

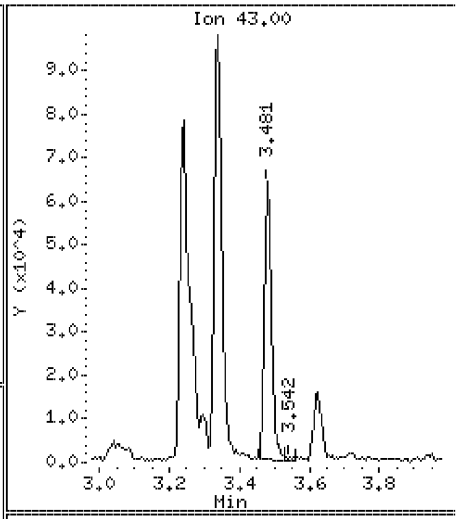
Concentration: 2.43 ppbv

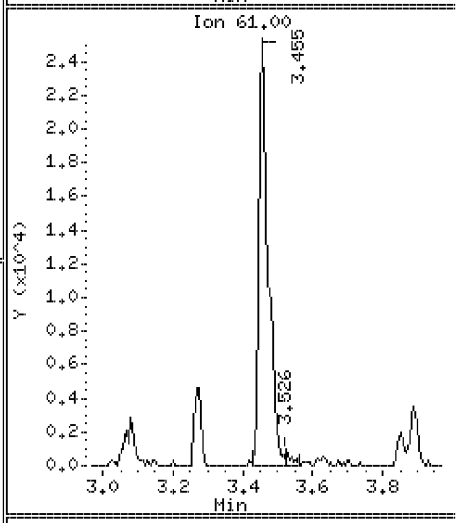


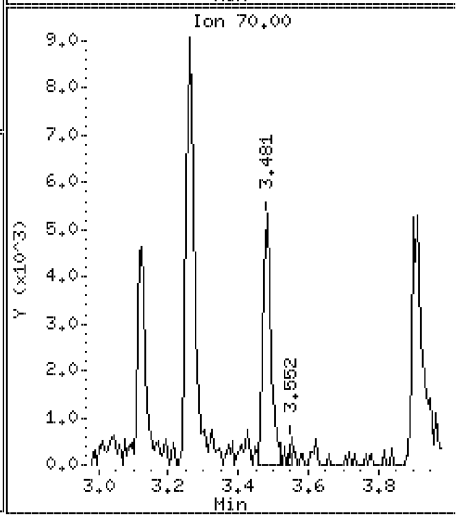












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

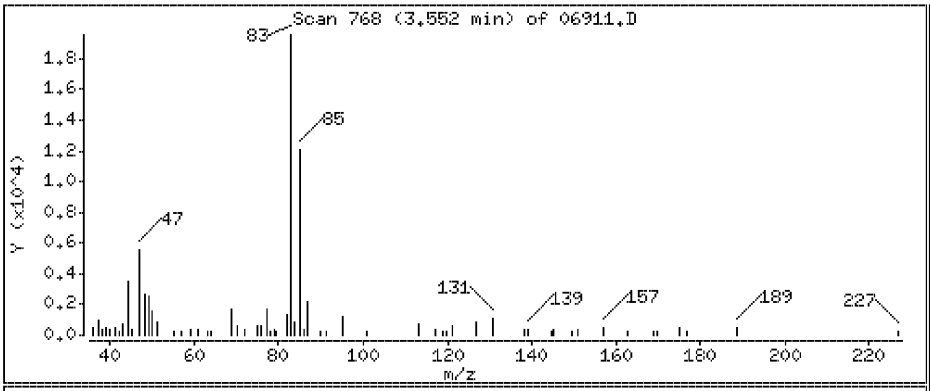
Operator: DR1

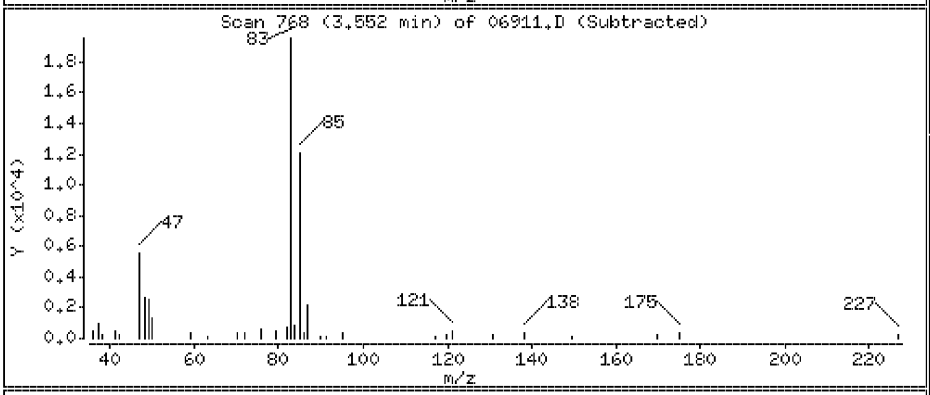
Column phase: J&W DB-5

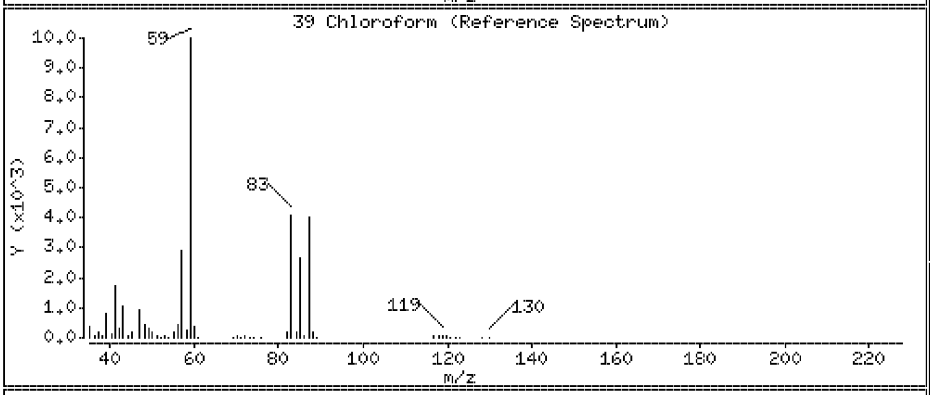
Column diameter: 0.32

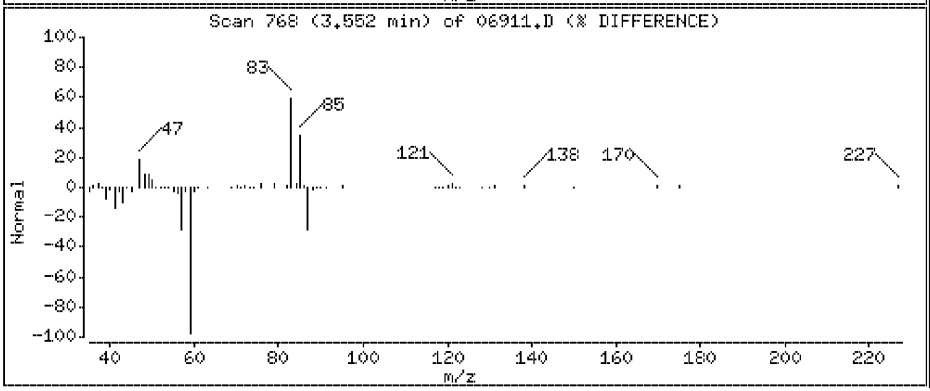
39 Chloroform

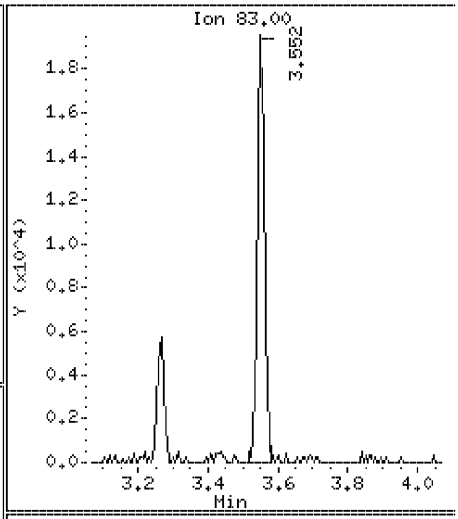
Concentration: 0.728 ppbv

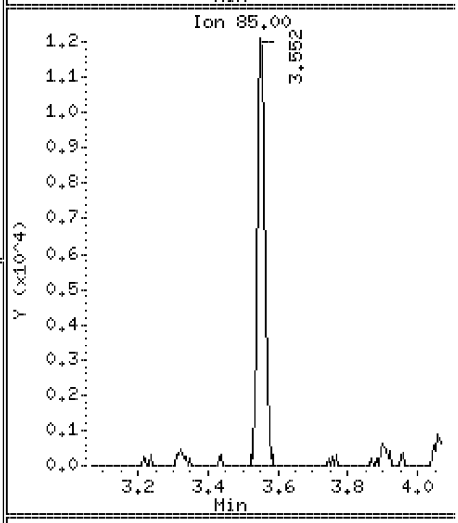


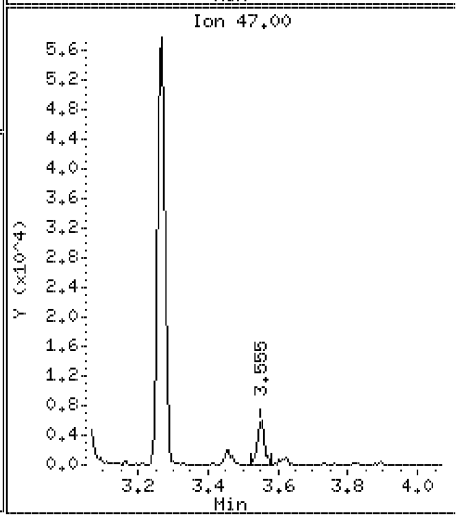












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

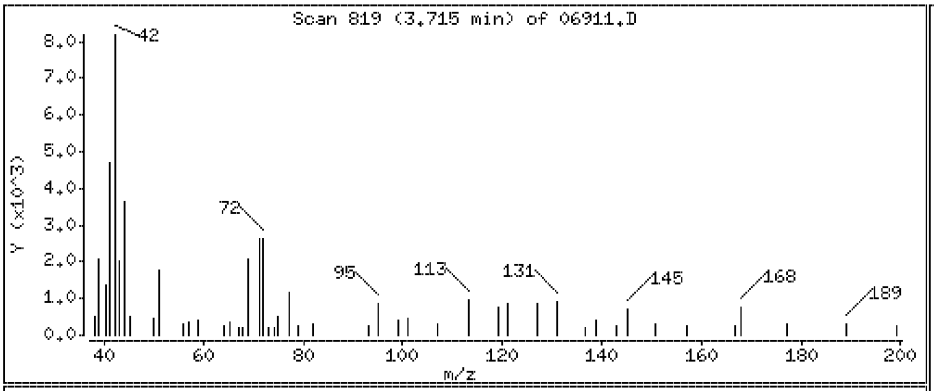
Operator: DR1

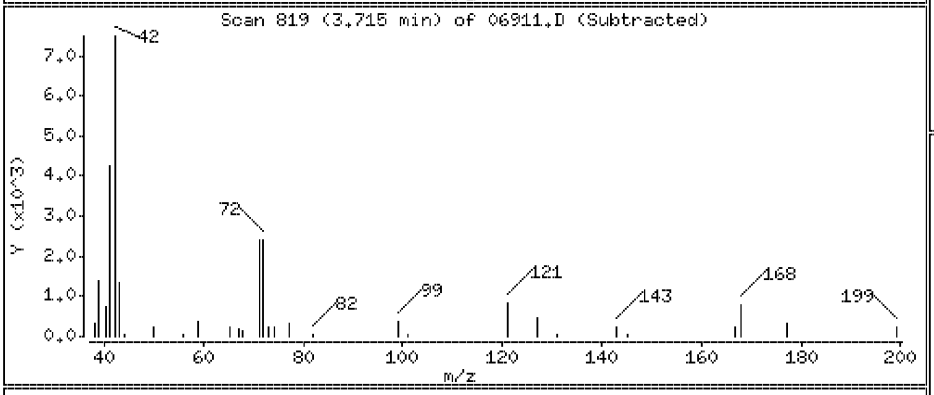
Column phase: J&W DB-5

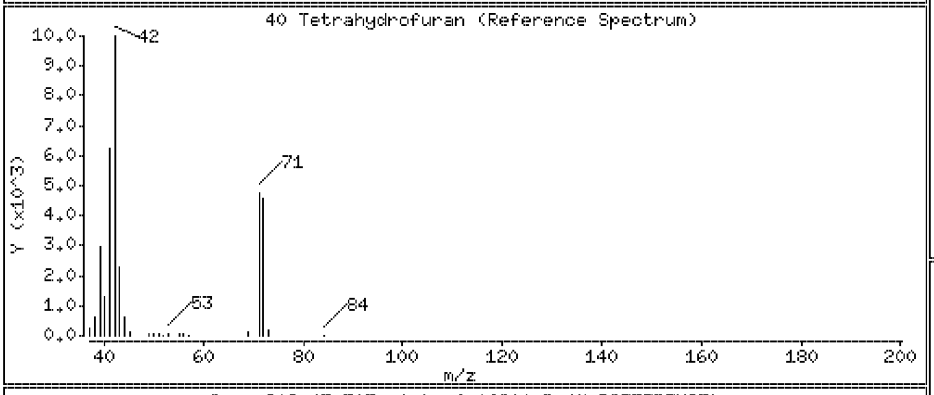
Column diameter: 0.32

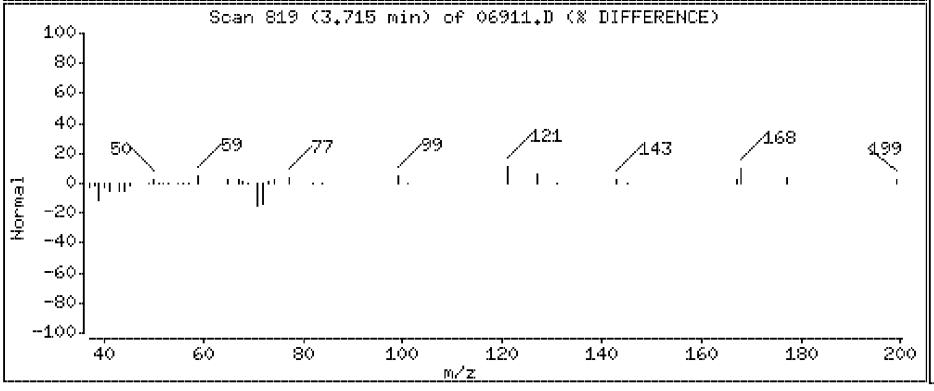
40 Tetrahydrofuran

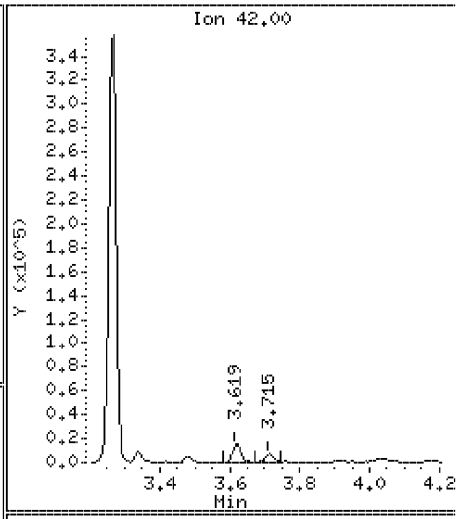
Concentration: 0.650 ppbv

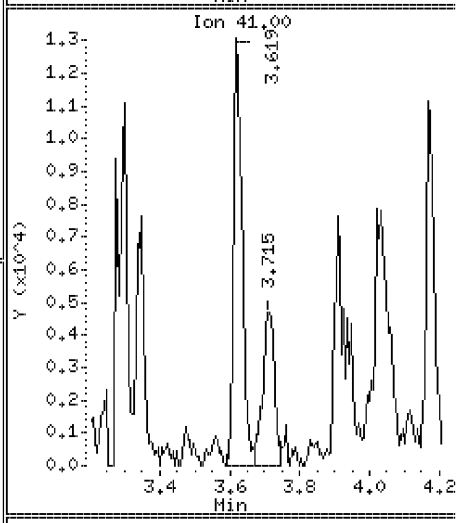


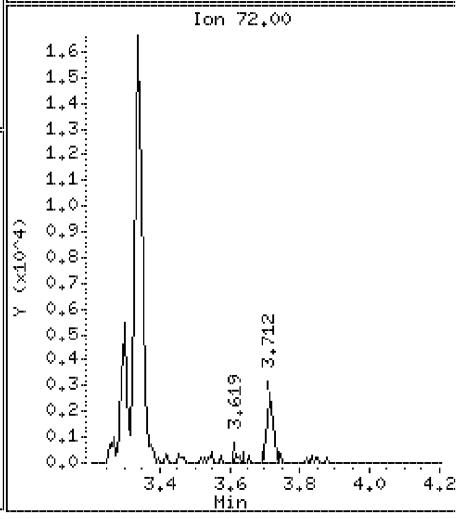












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

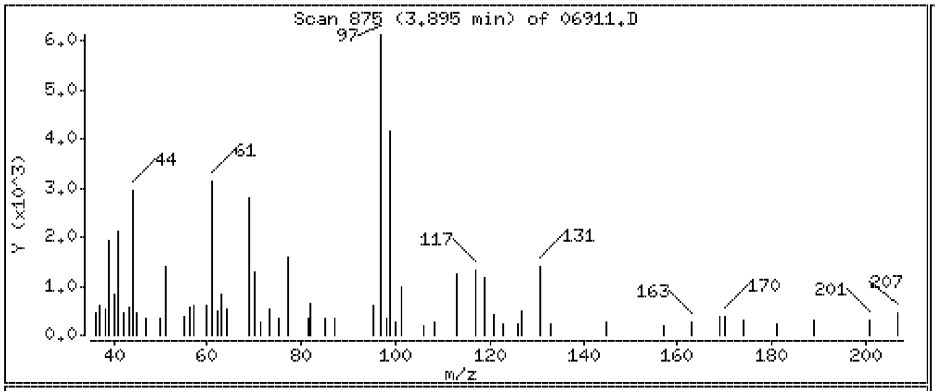
Operator: DR1

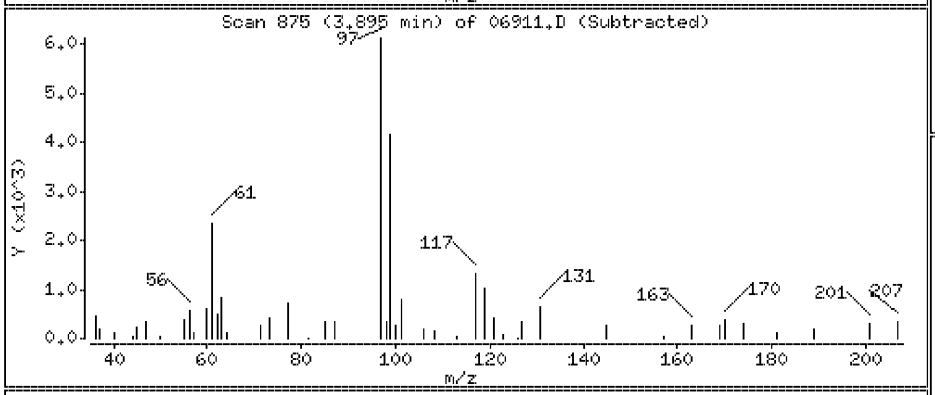
Column phase: J&W DB-5

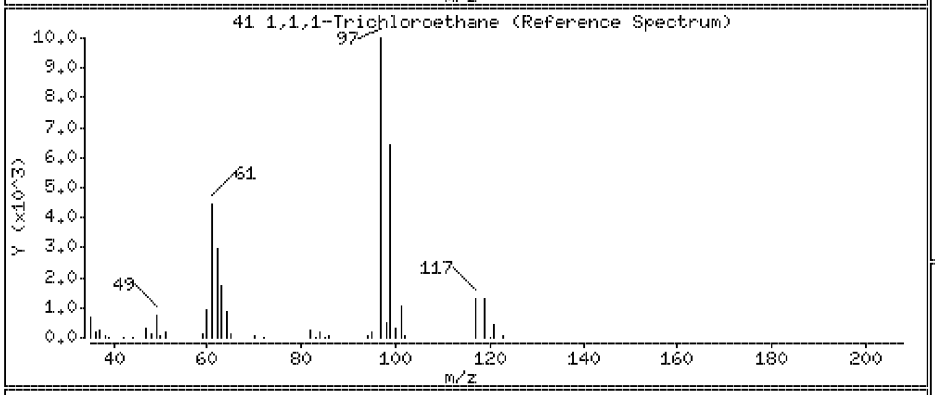
Column diameter: 0.32

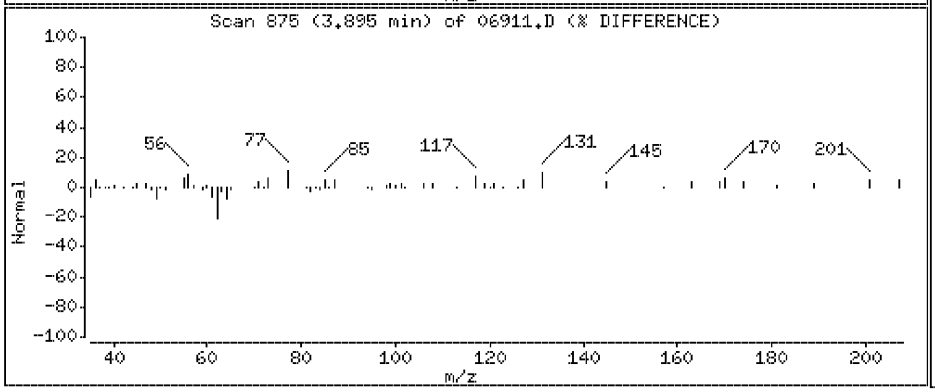
41 1,1,1-Trichloroethane

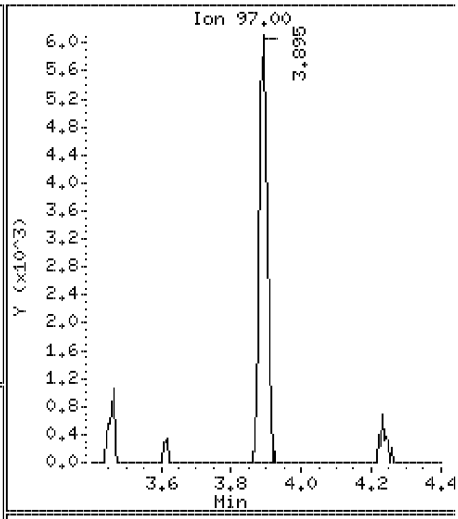
Concentration: 0.243 ppbv

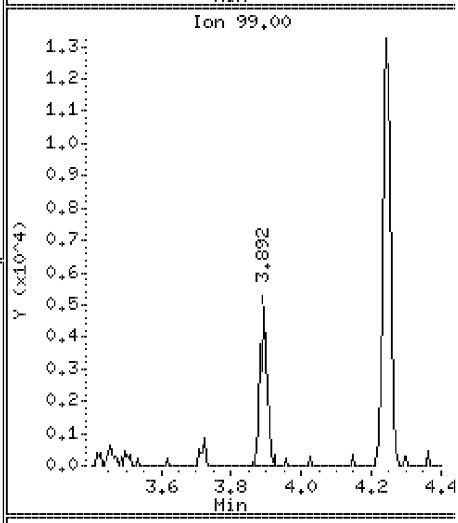


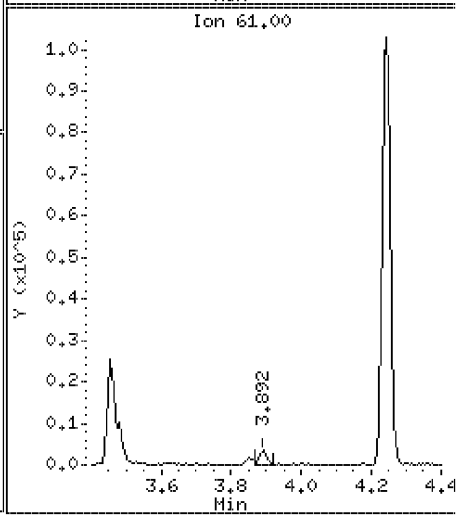












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

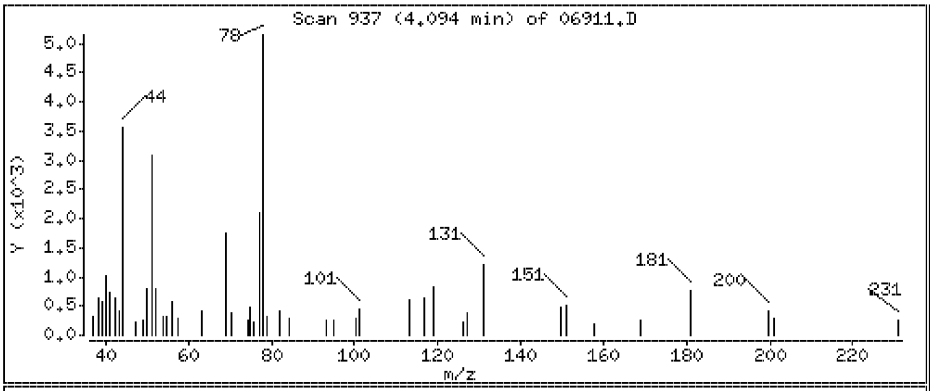
Operator: DR1

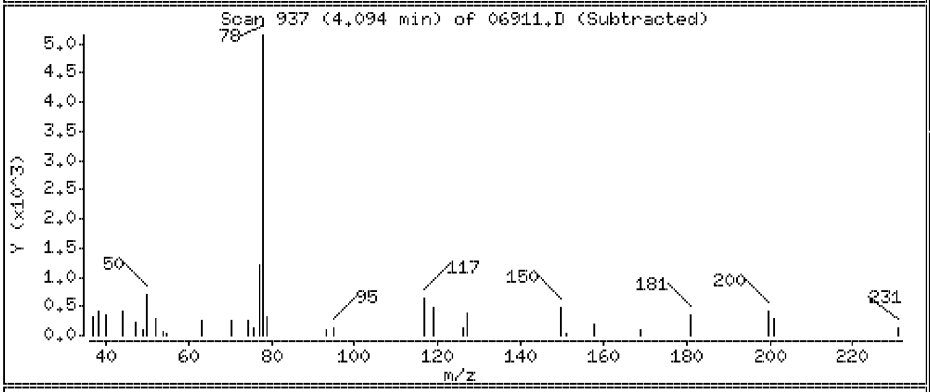
Column phase: J&W DB-5

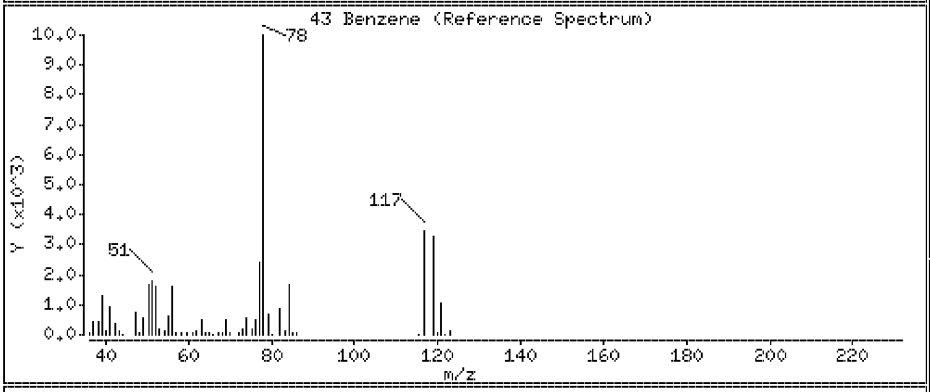
Column diameter: 0.32

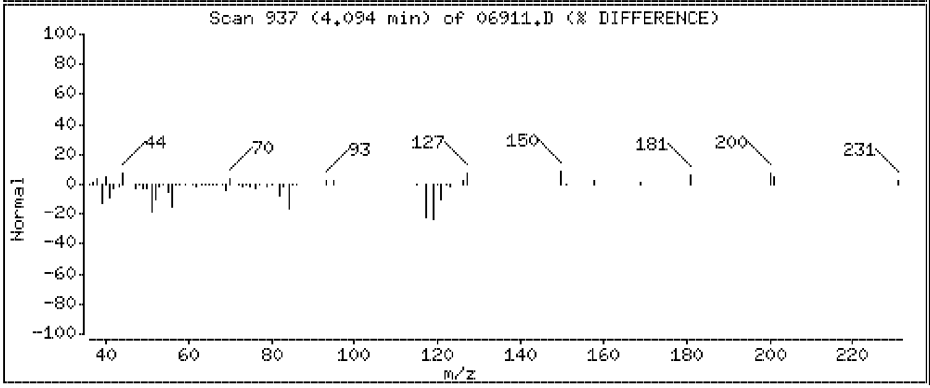
43 Benzene

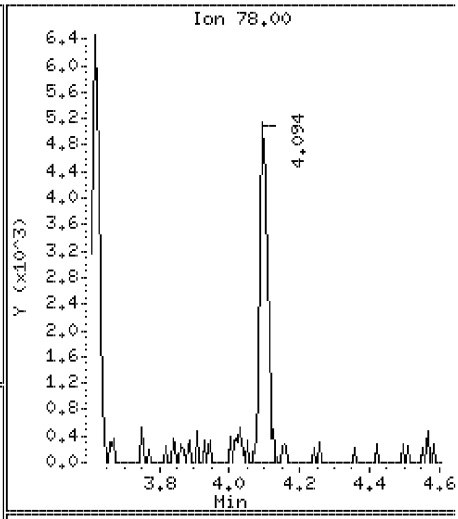
Concentration: 0.178 ppbv

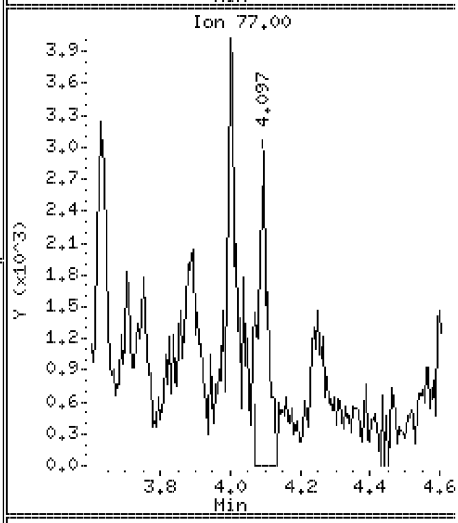


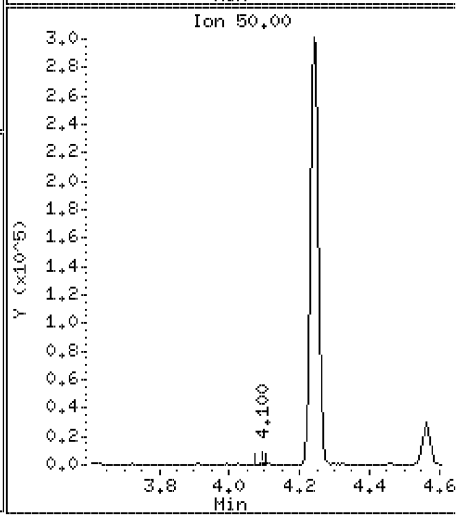












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

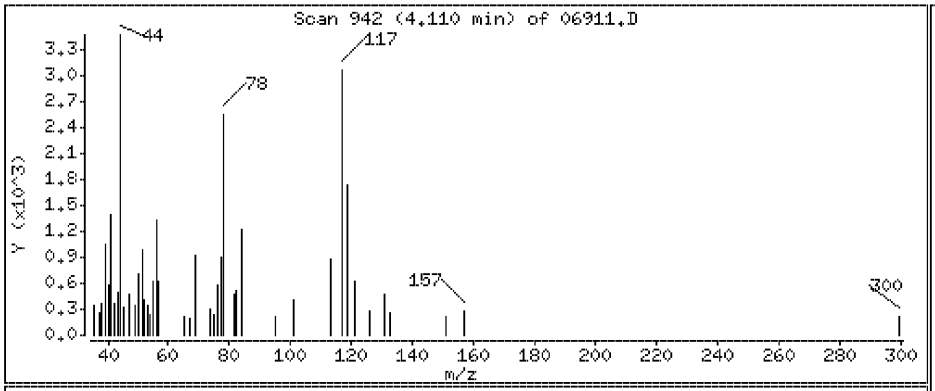
Operator: DR1

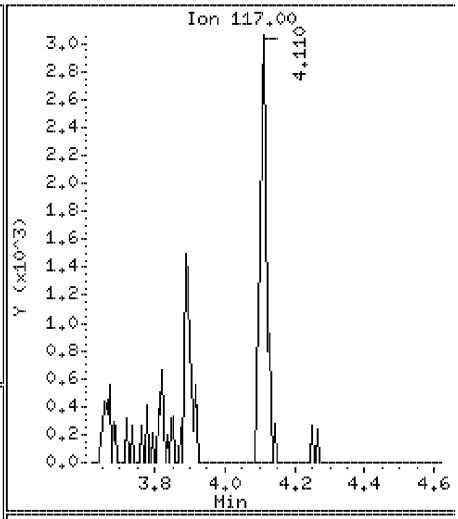
Column phase: J&W DB-5

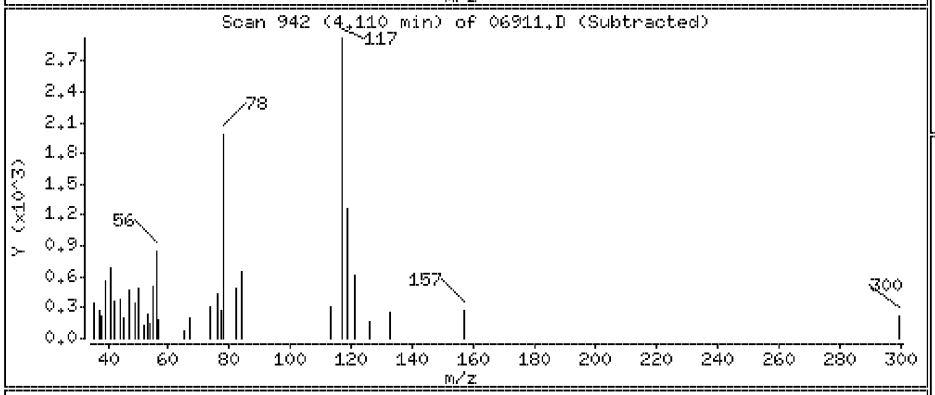
Column diameter: 0.32

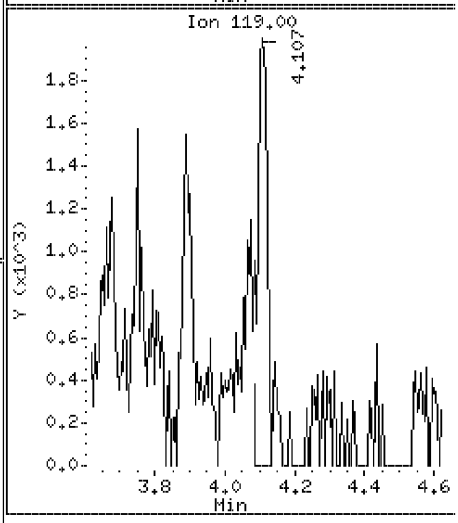
45 Carbon tetrachloride

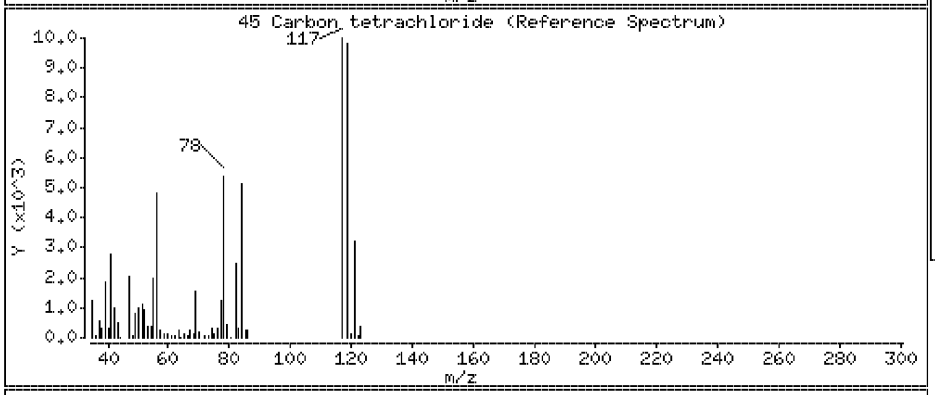
Concentration: 0.108 ppbv

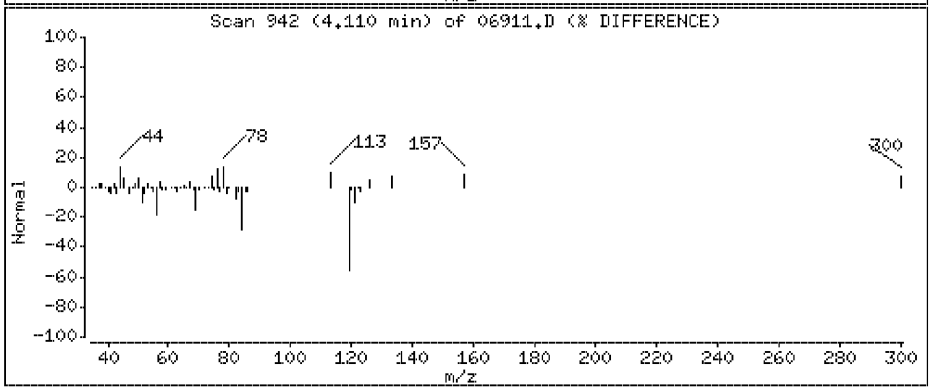












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

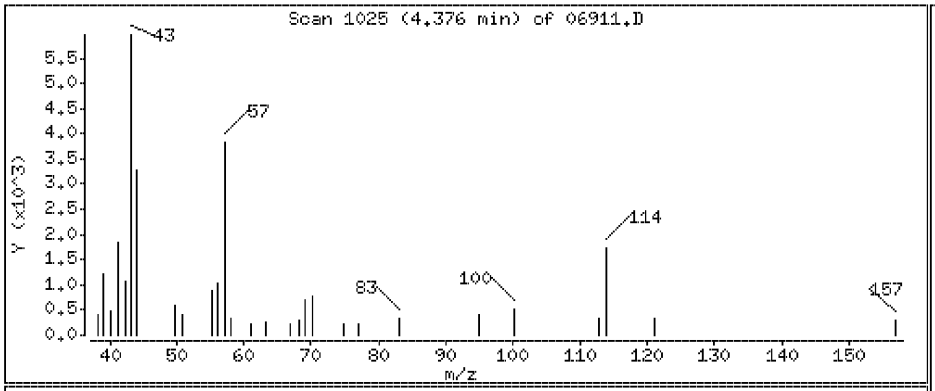
Operator: DR1

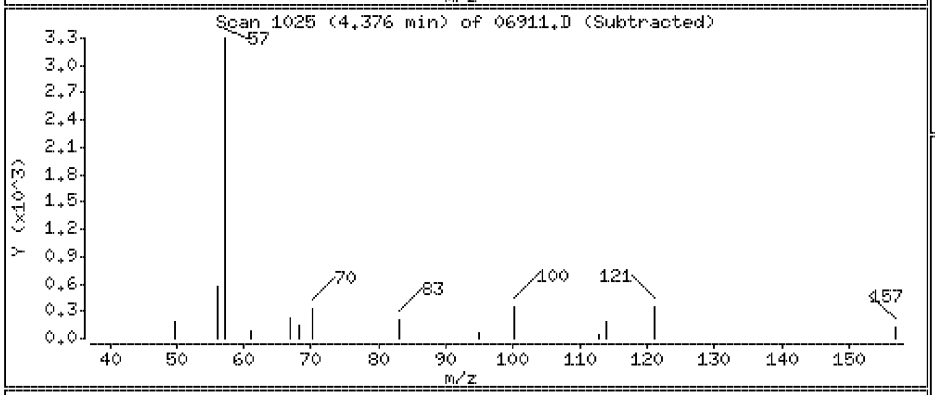
Column phase: J&W DB-5

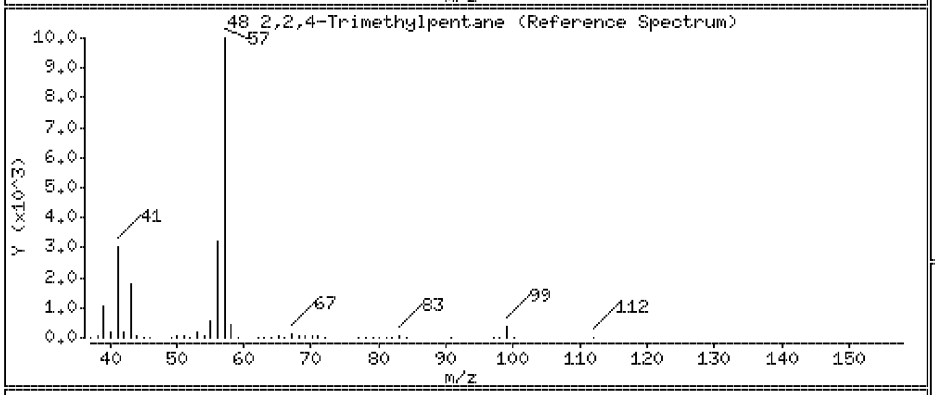
Column diameter: 0.32

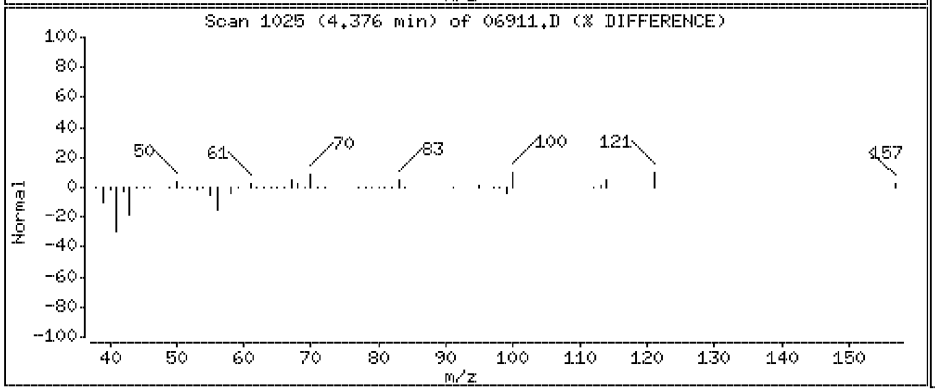
48 2,2,4-Trimethylpentane

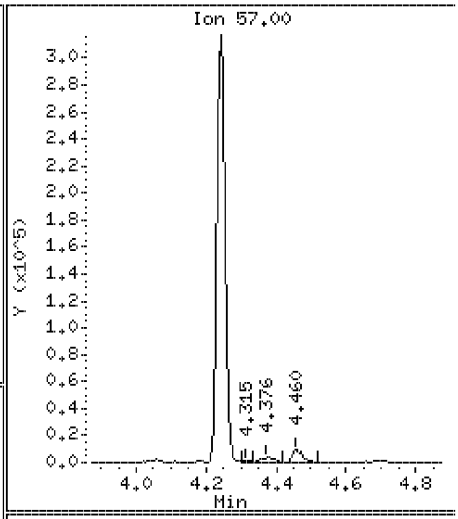
Concentration: 290 ppbv

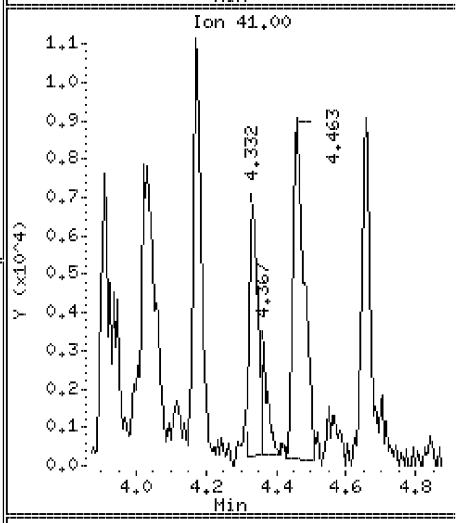


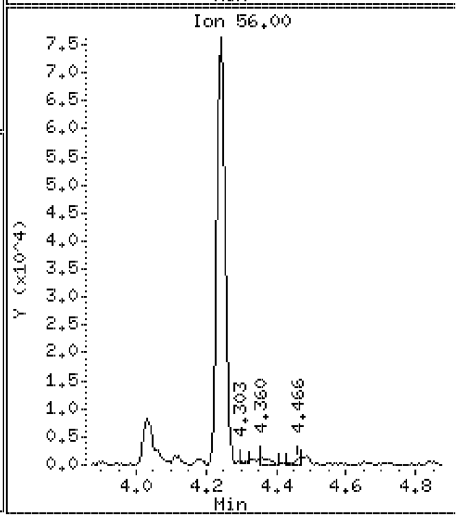












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

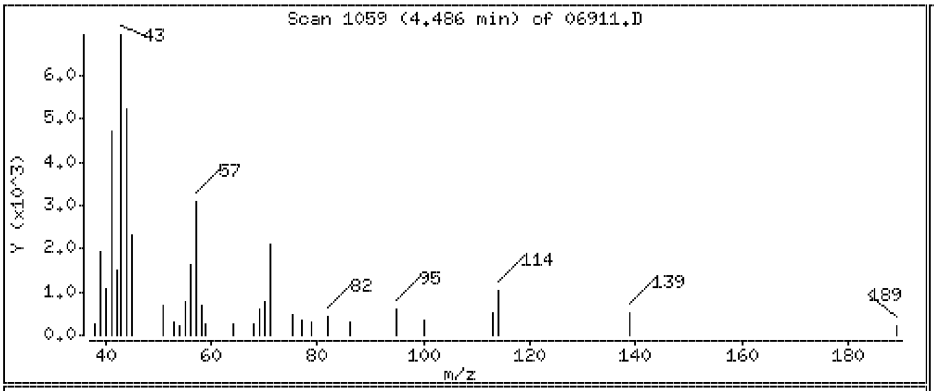
Operator: DR1

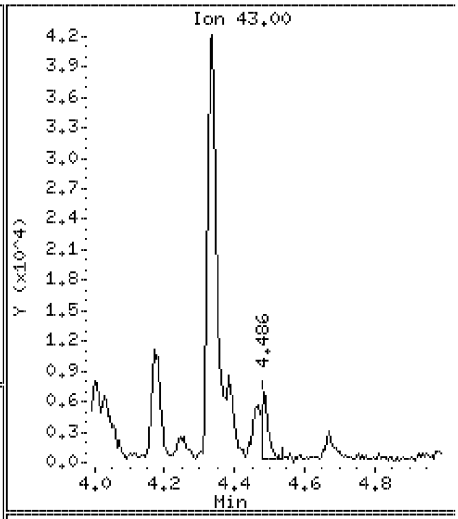
Column phase: J&W DB-5

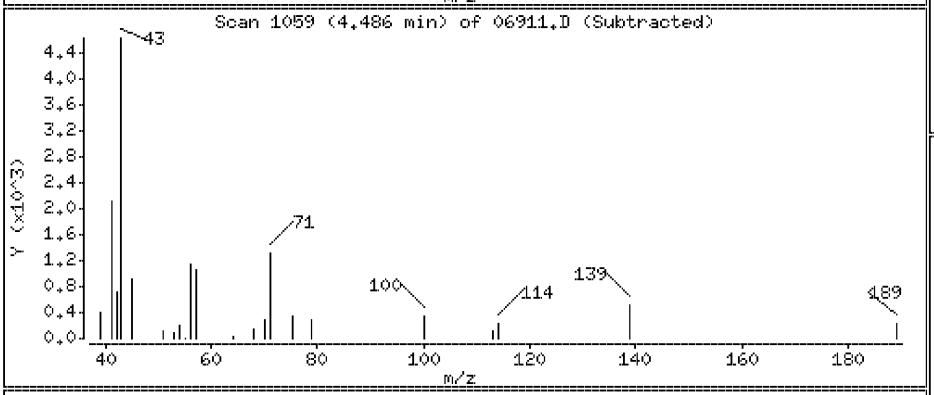
Column diameter: 0.32

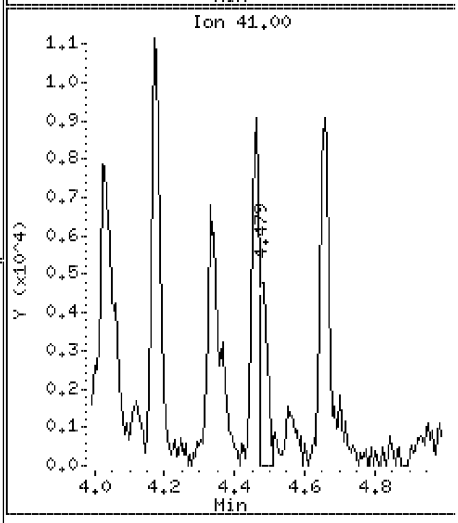
49 Heptane

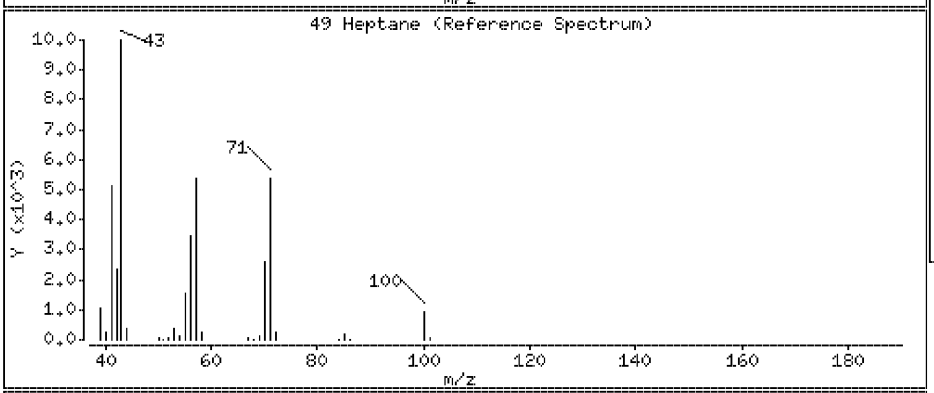
Concentration: 0.224 ppbv

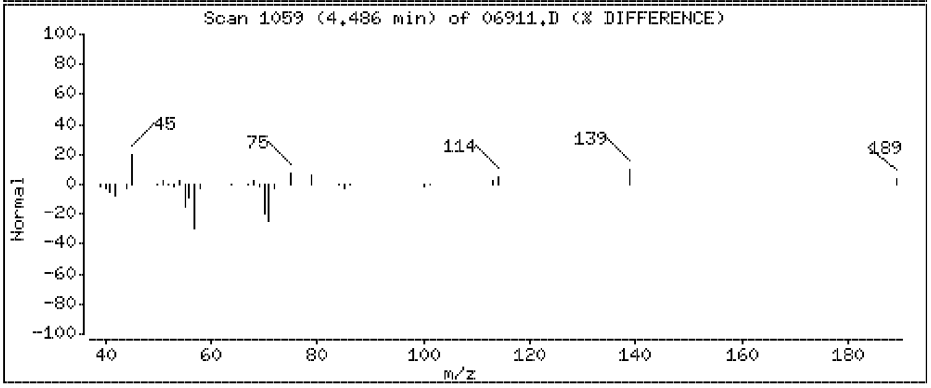












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

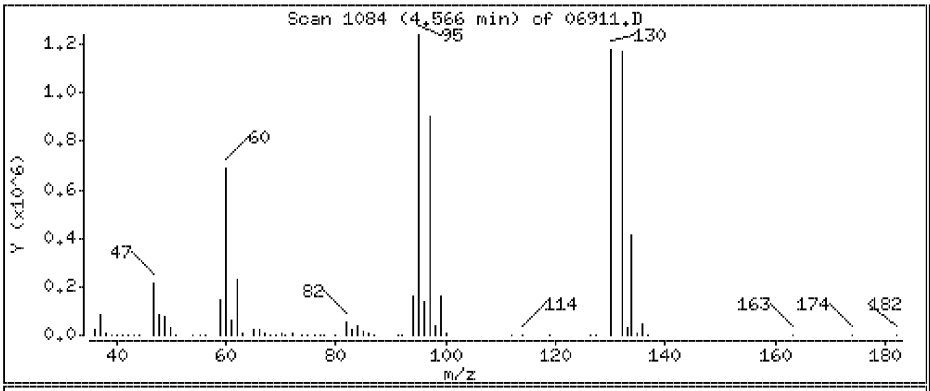
Operator: DR1

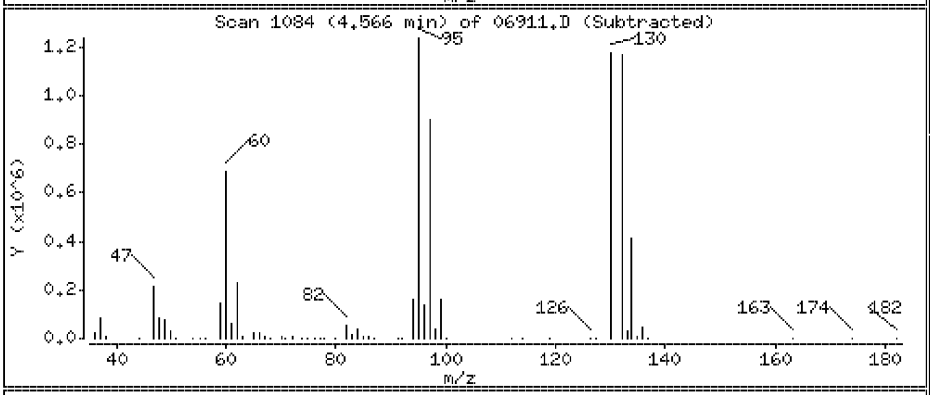
Column phase: J&W DB-5

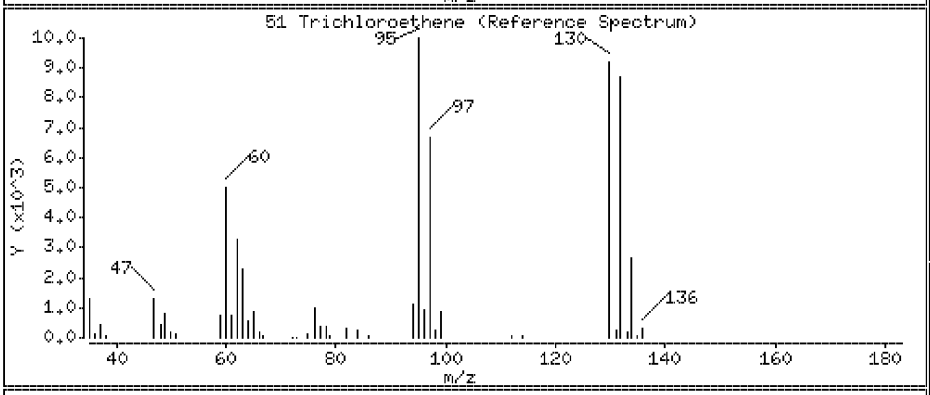
Column diameter: 0.32

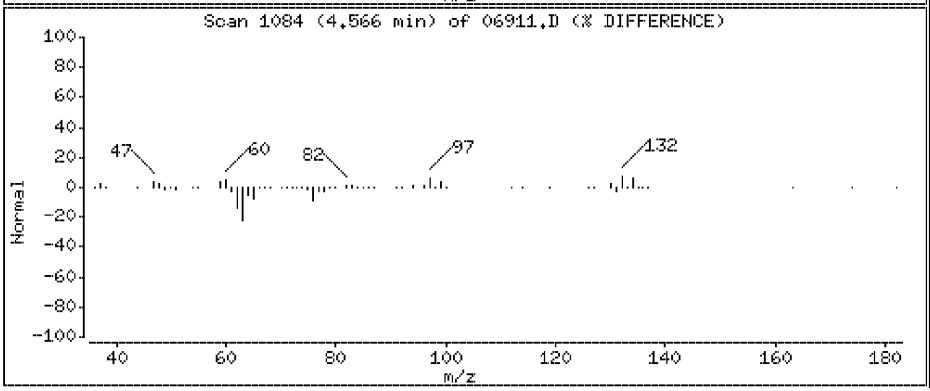
51 Trichloroethene

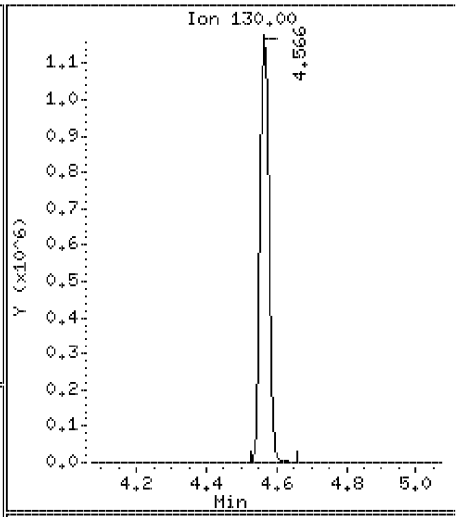
Concentration: 84.3 ppbv

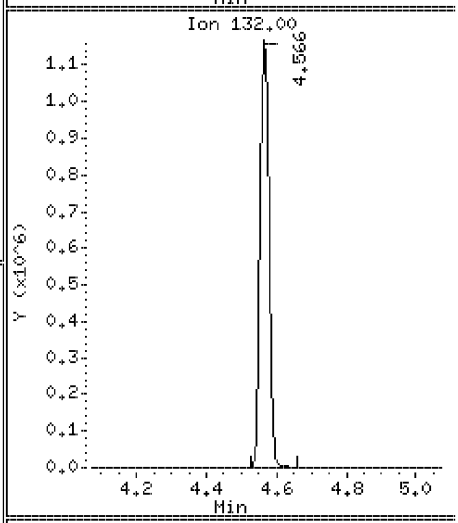


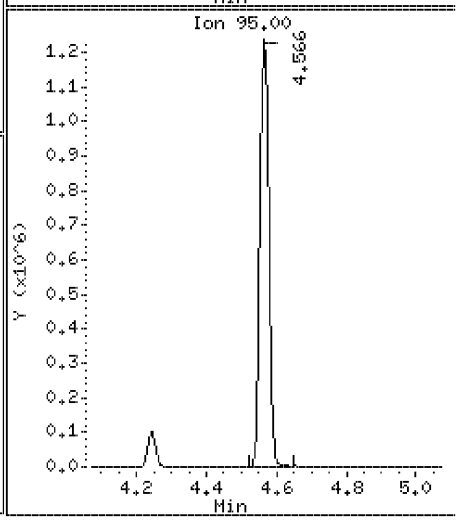












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

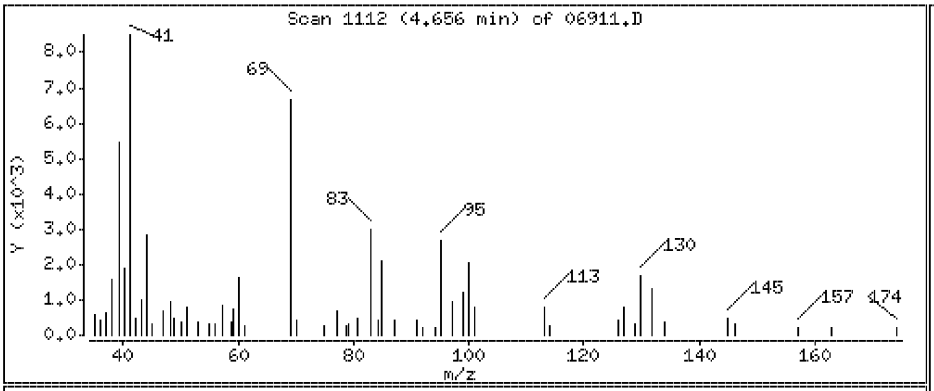
Operator: DR1

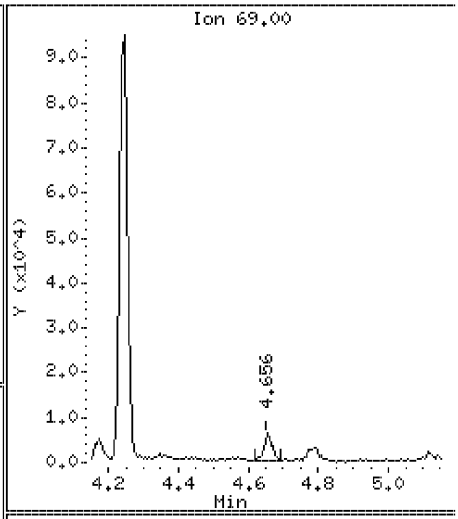
Column phase: J&W DB-5

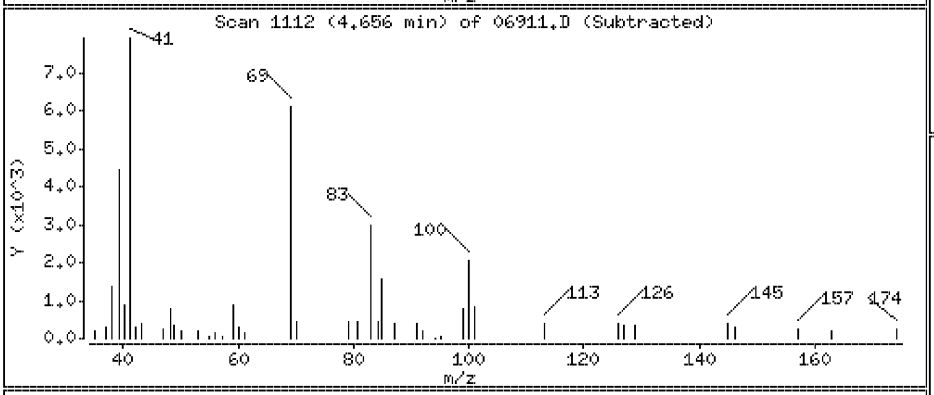
Column diameter: 0.32

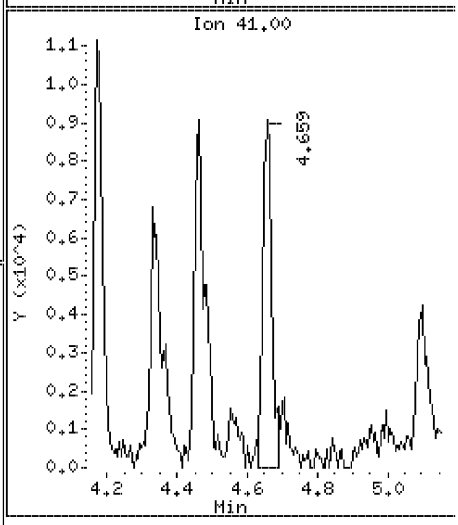
52 Methyl methacrylate

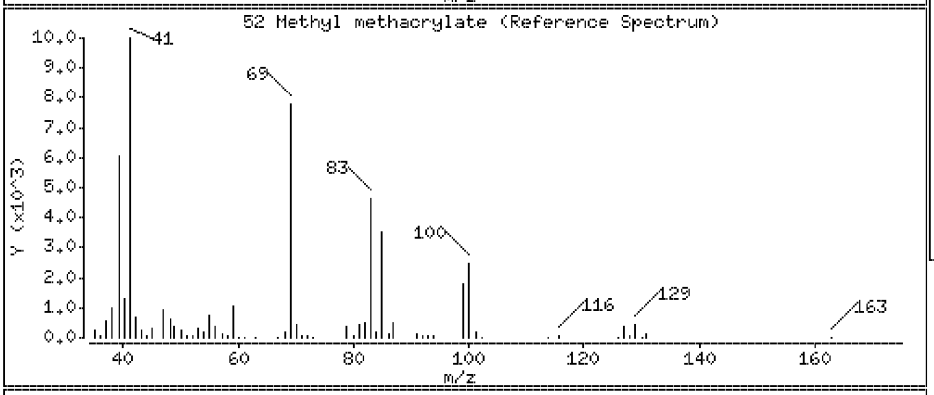
Concentration: 0.603 ppbv

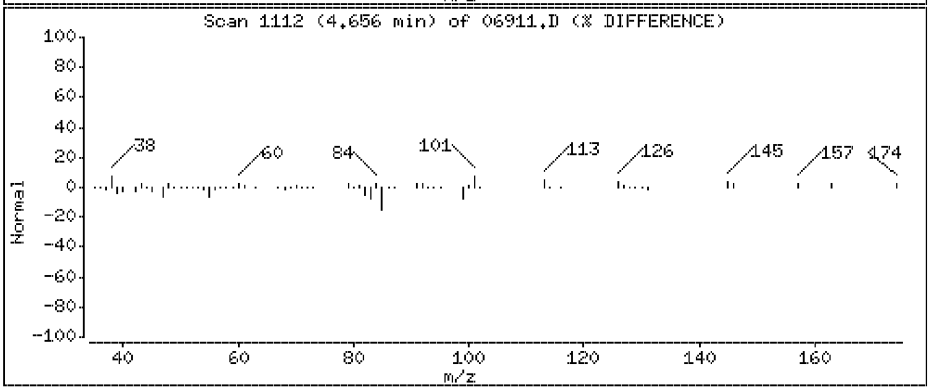












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

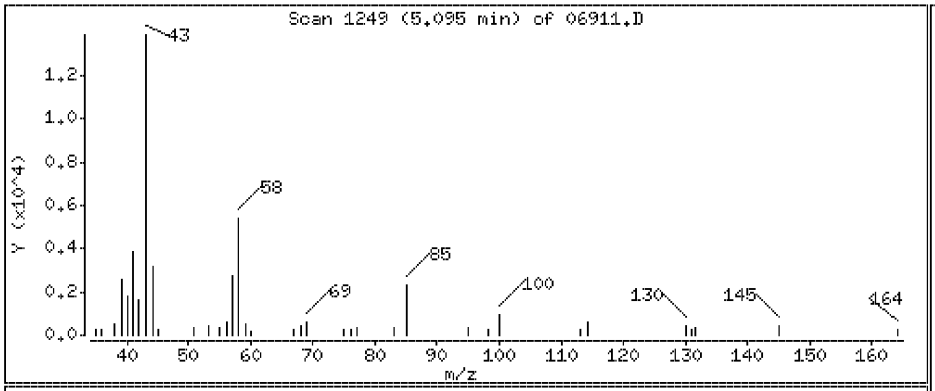
Operator: DR1

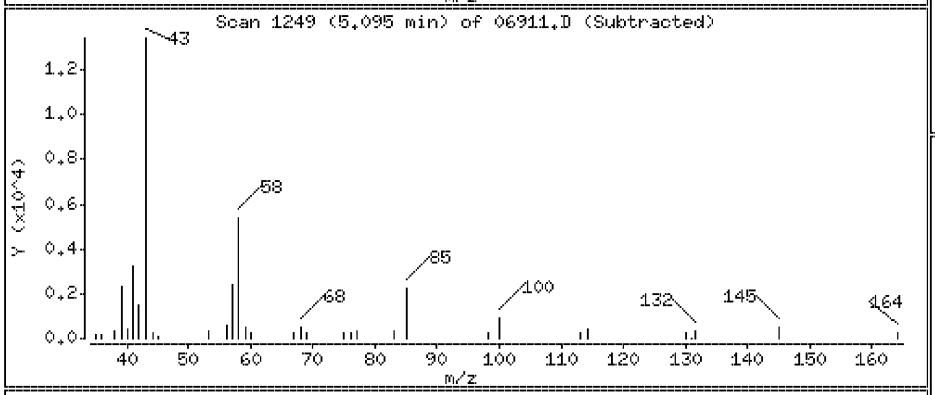
Column phase: J&W DB-5

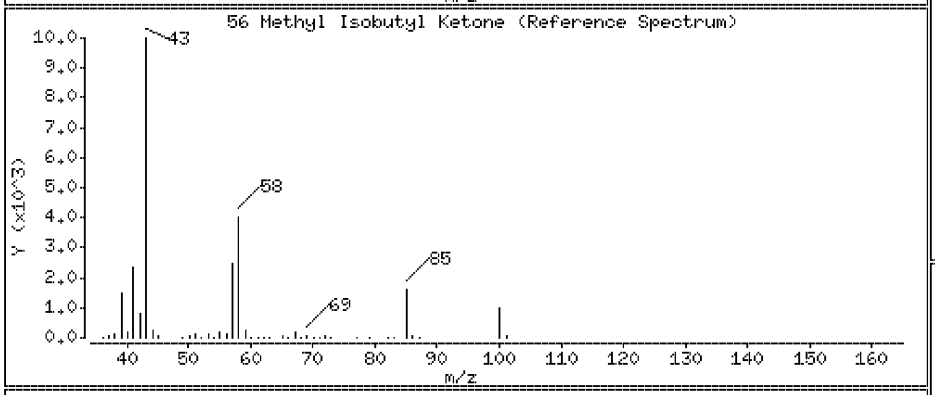
Column diameter: 0.32

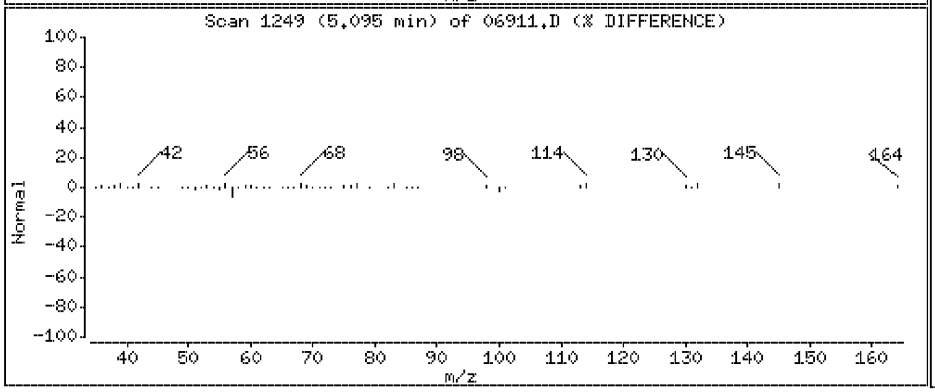
56 Methyl Isobutyl Ketone

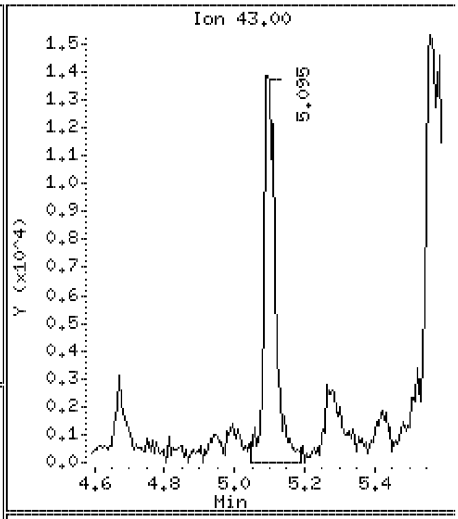
Concentration: 0.529 ppbv

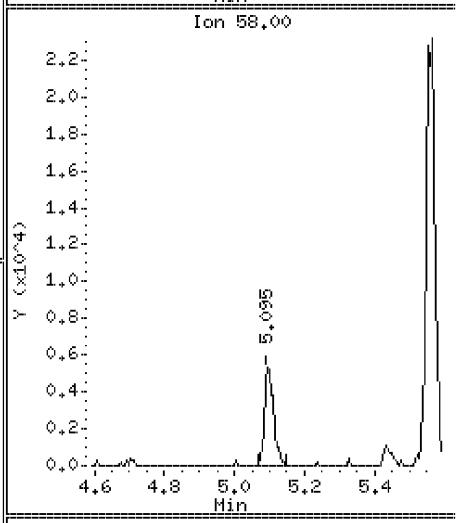


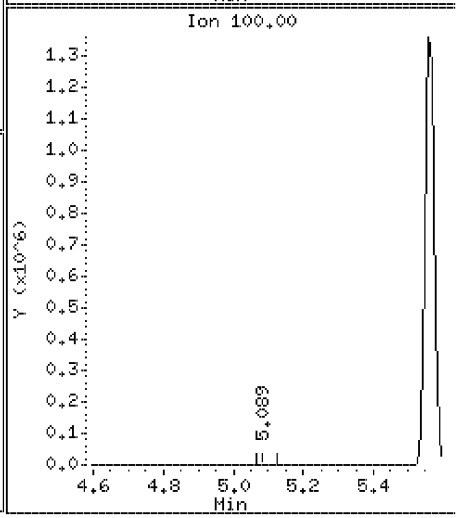












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

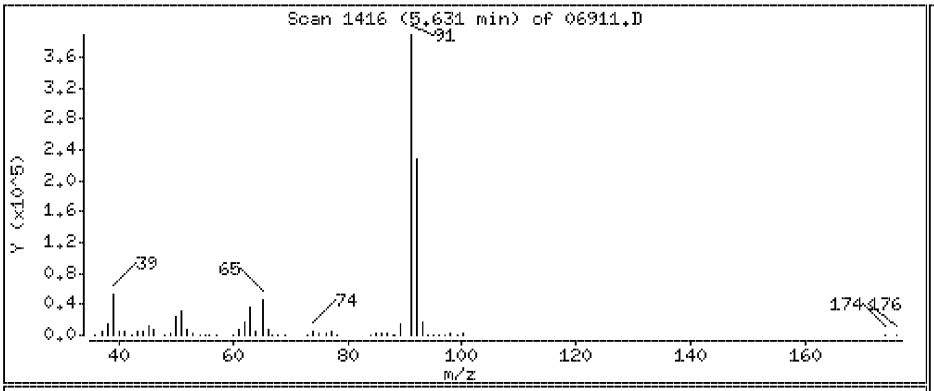
Operator: DR1

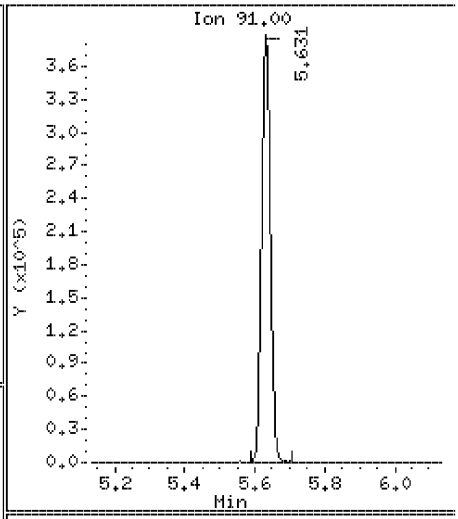
Column phase: J&W DB-5

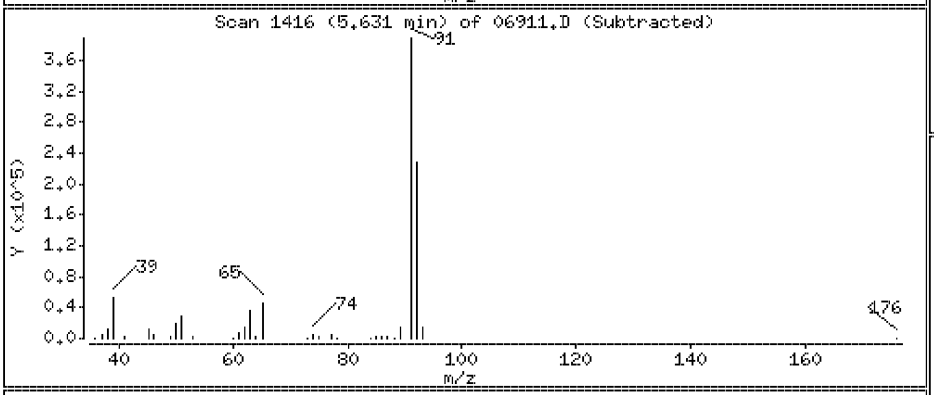
Column diameter: 0.32

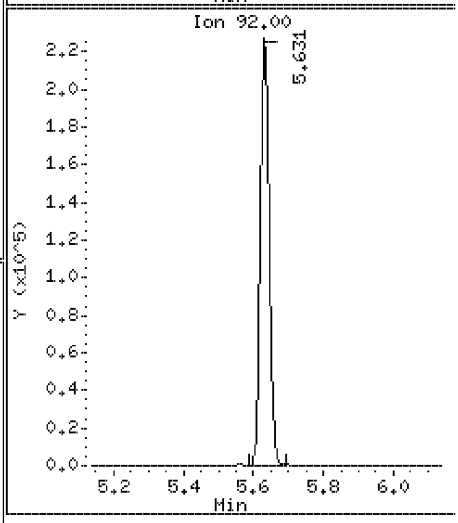
60 Toluene

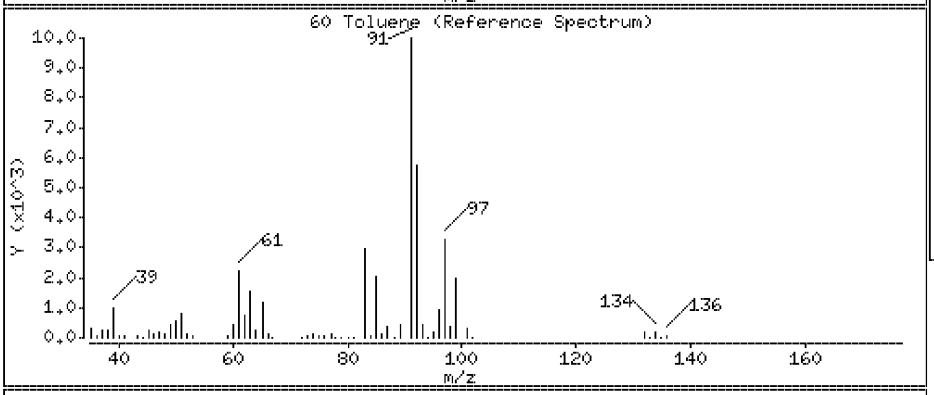
Concentration: 11.2 ppbv

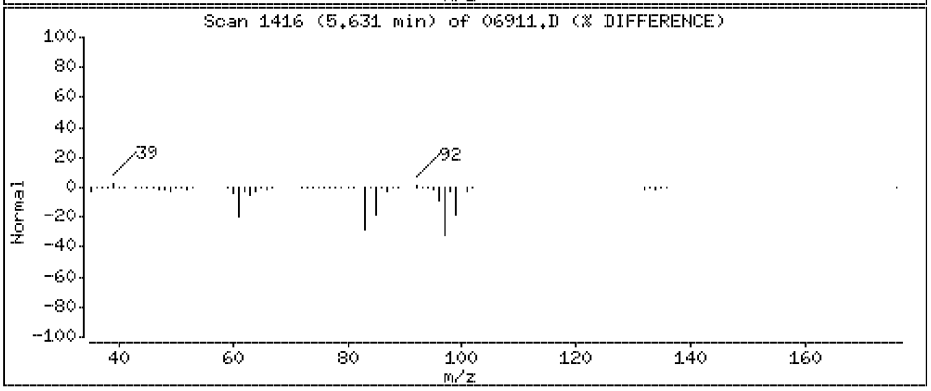












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

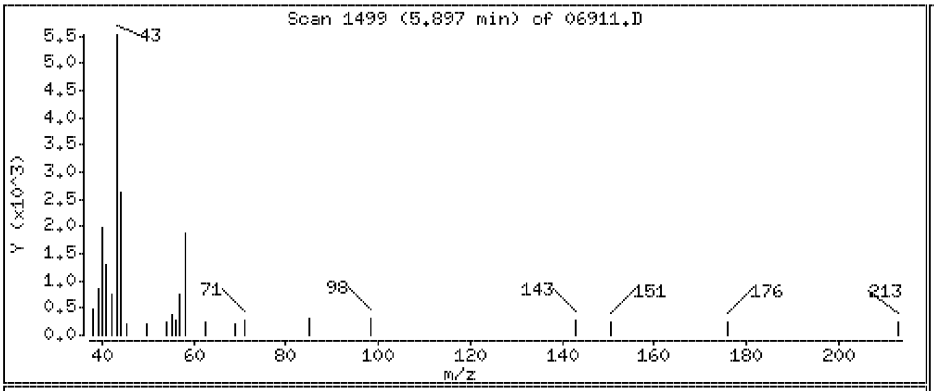
Operator: DR1

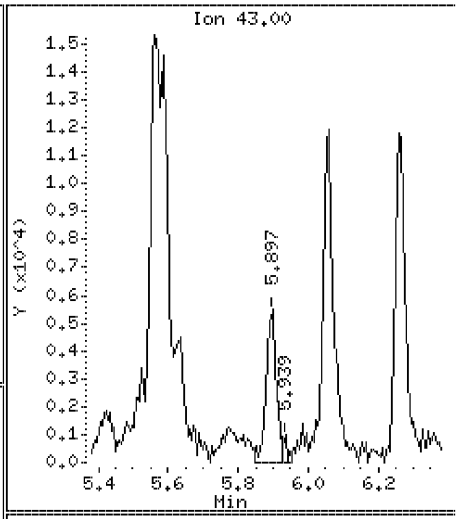
Column phase: J&W DB-5

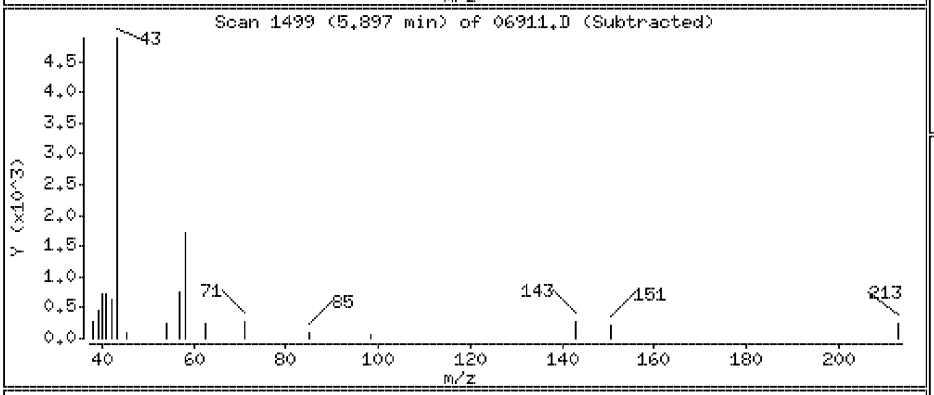
Column diameter: 0.32

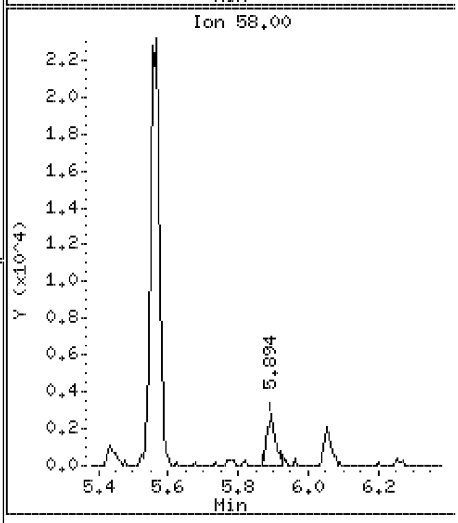
62 Methyl Butyl Ketone

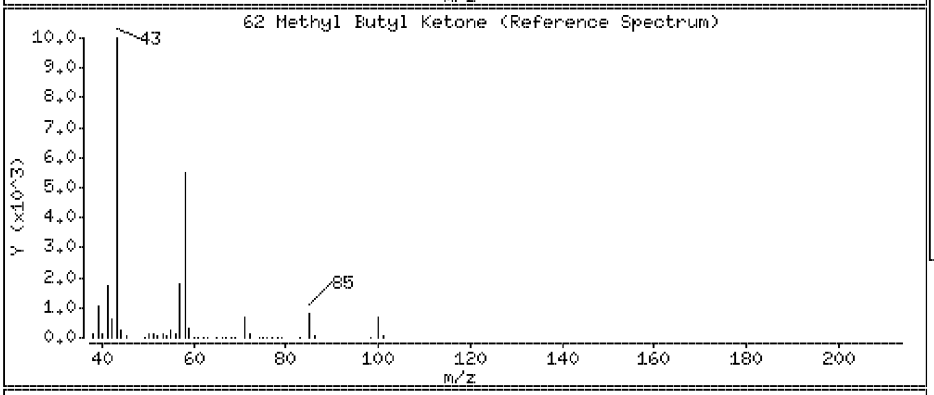
Concentration: 0.313 ppbv

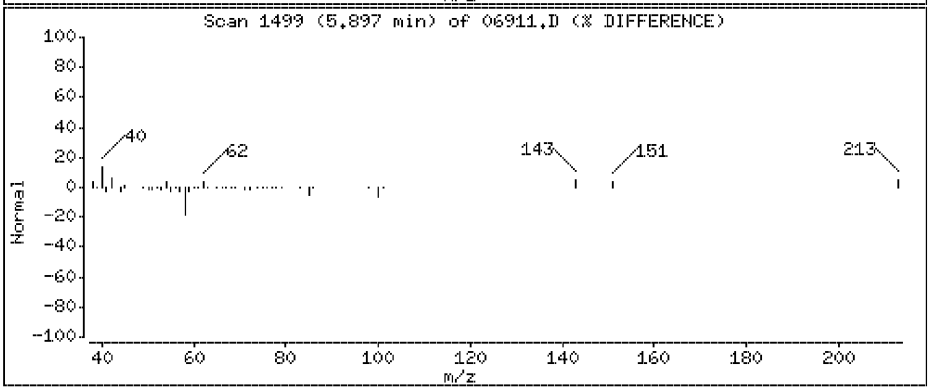












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

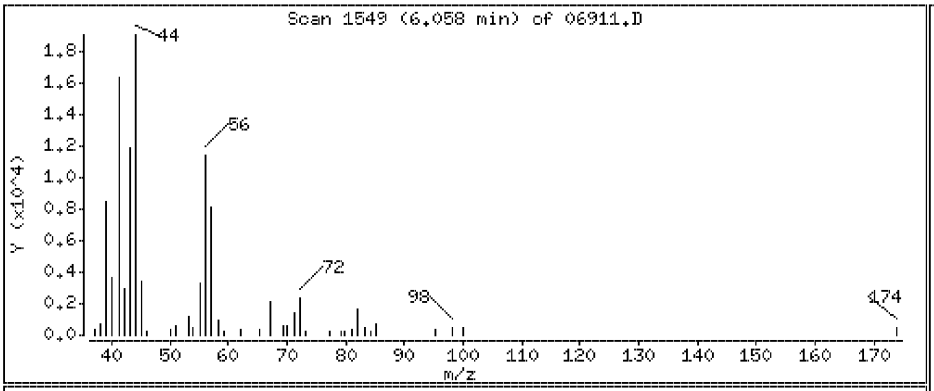
Operator: DR1

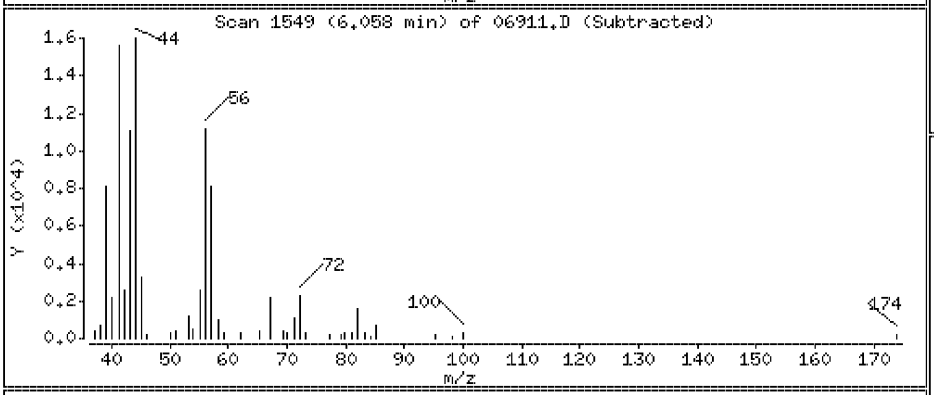
Column phase: J&W DB-5

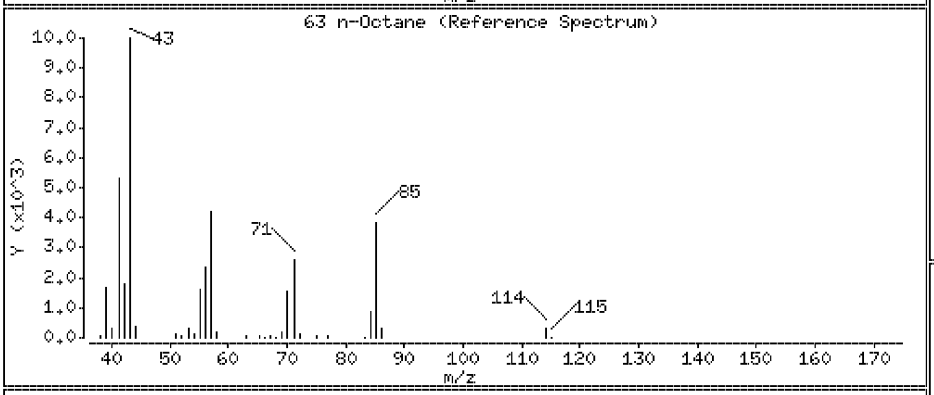
Column diameter: 0.32

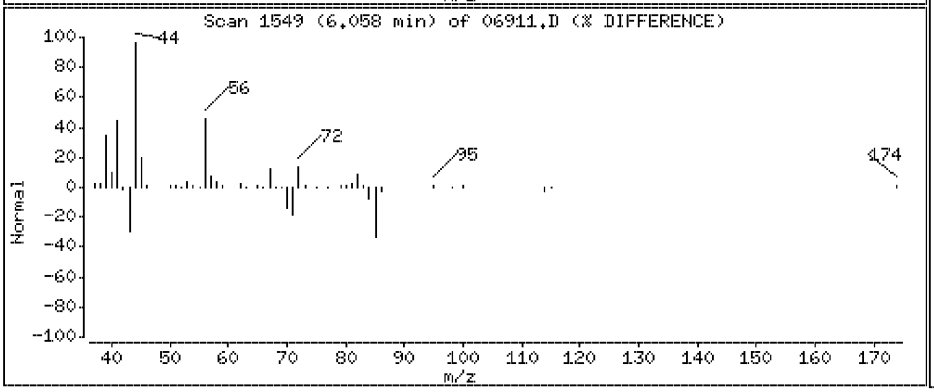
63 n-Octane

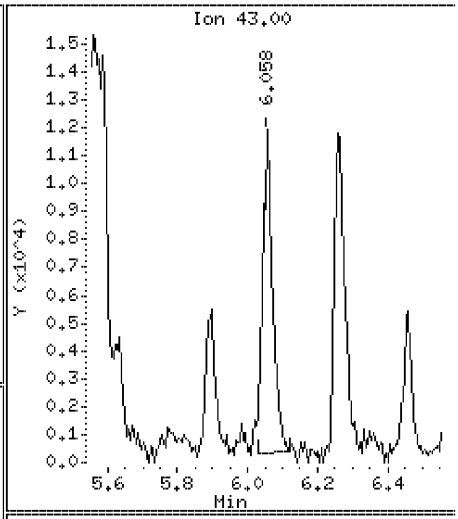
Concentration: 0.596 ppbv

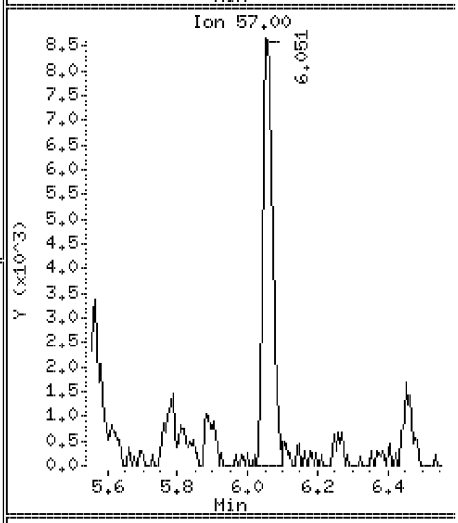


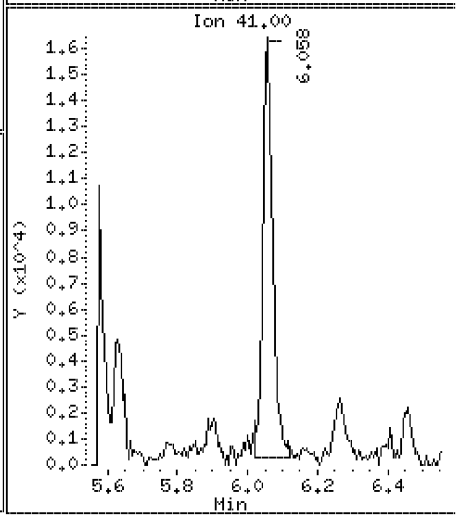












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

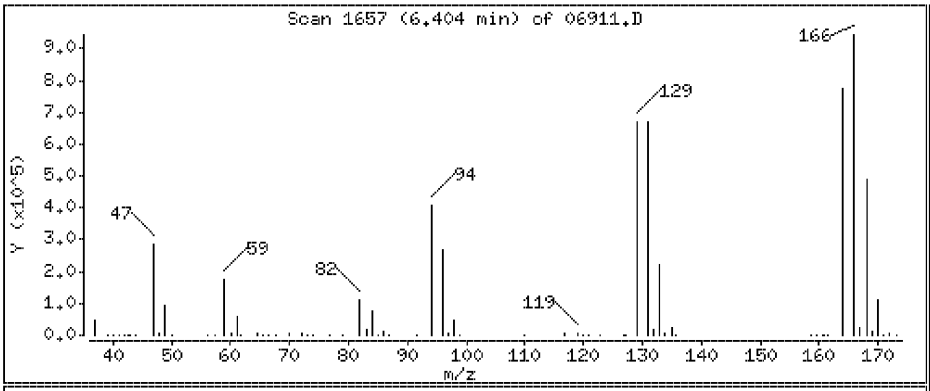
Operator: DR1

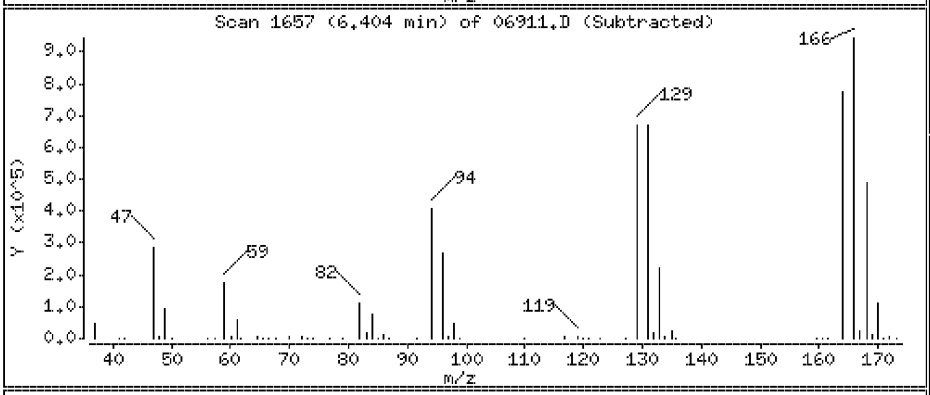
Column phase: J&W DB-5

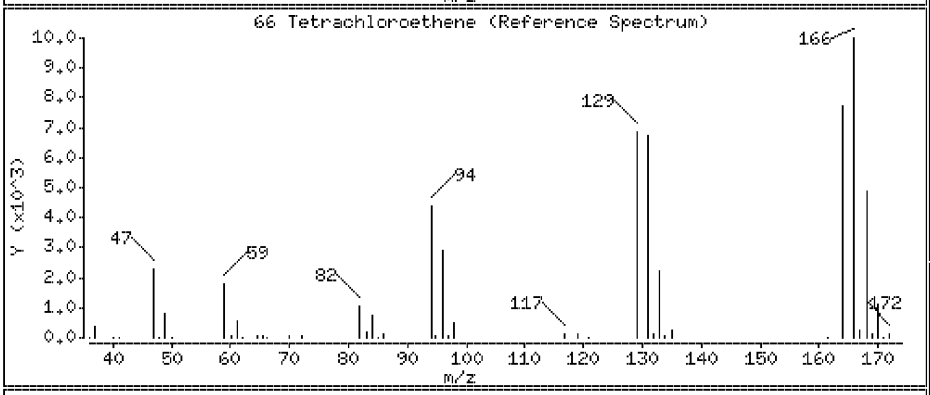
Column diameter: 0.32

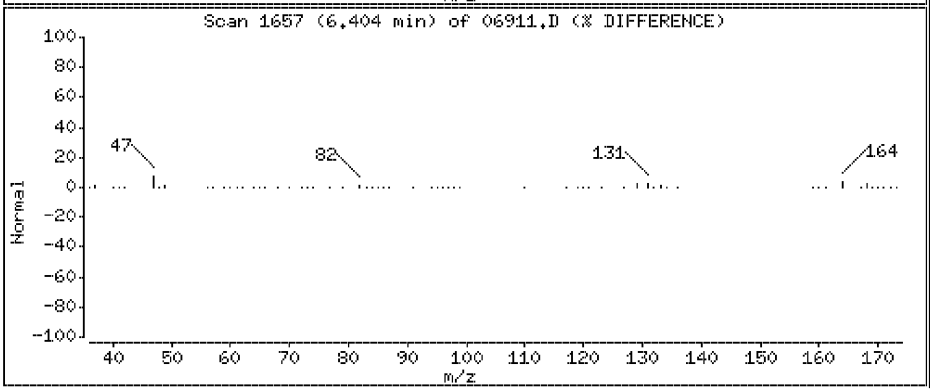
66 Tetrachloroethene

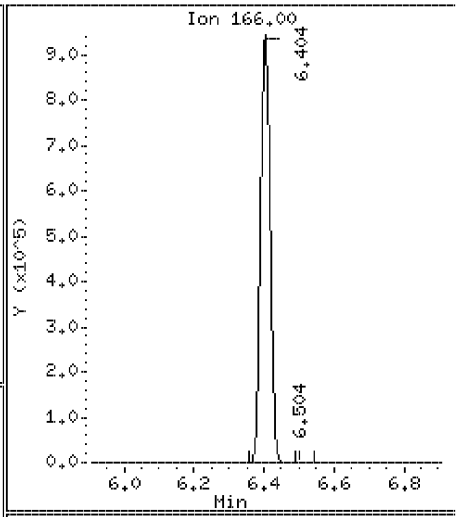
Concentration: 53.3 ppbv

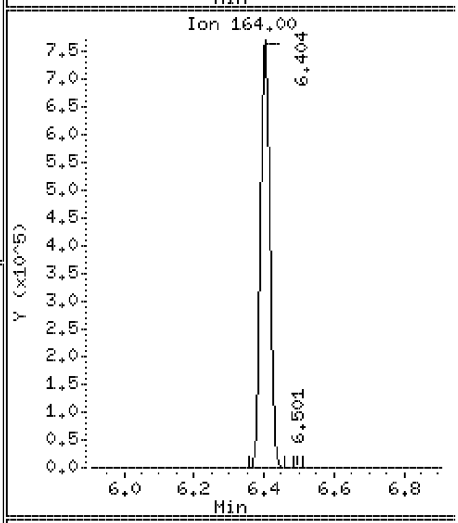


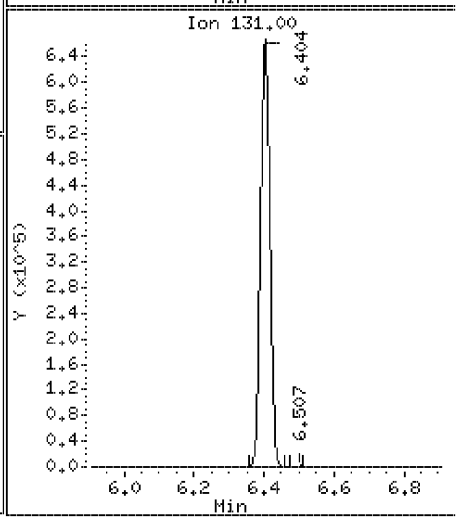












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

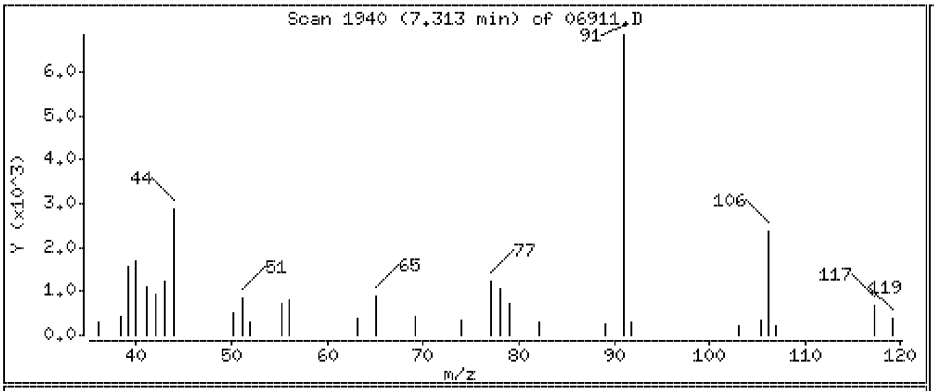
Operator: DR1

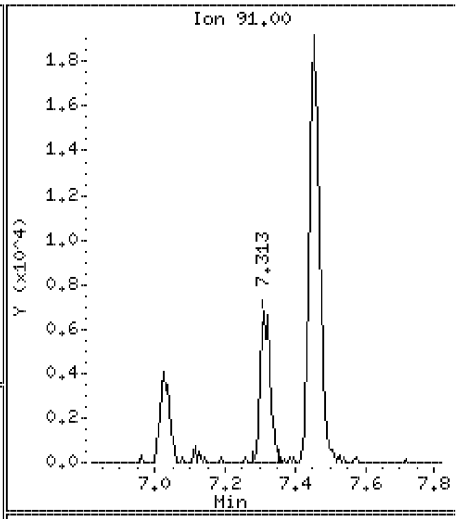
Column phase: J&W DB-5

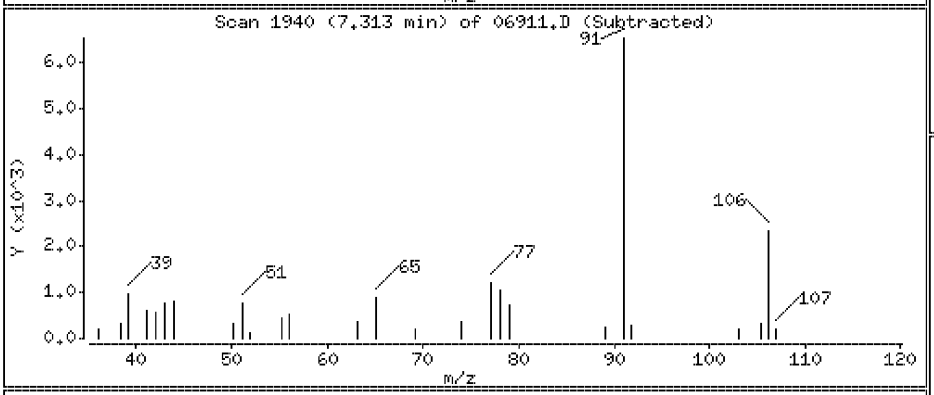
Column diameter: 0.32

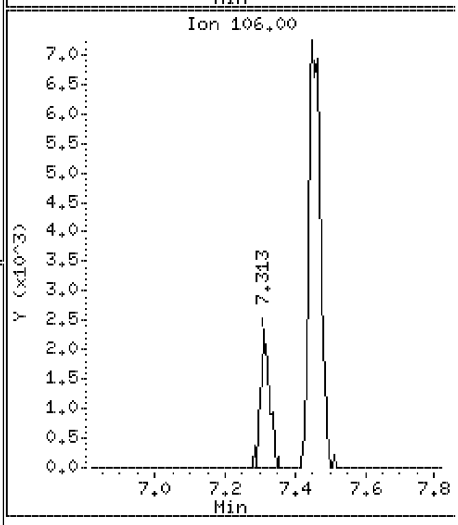
69 Ethyl Benzene

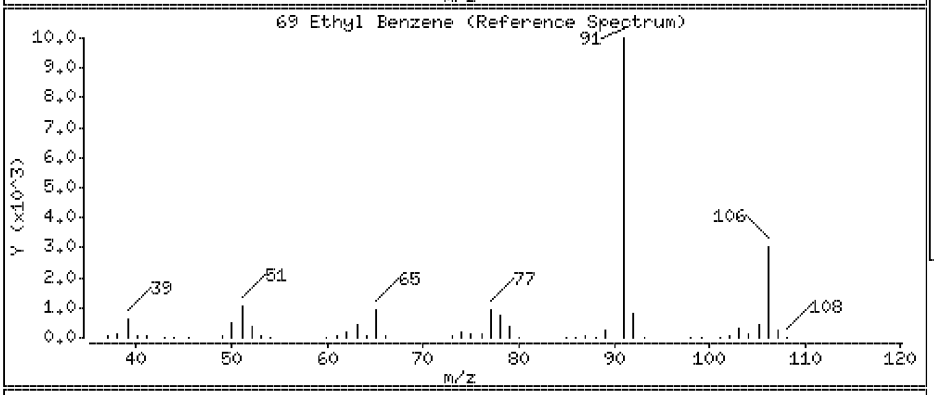
Concentration: 0.190 ppbv

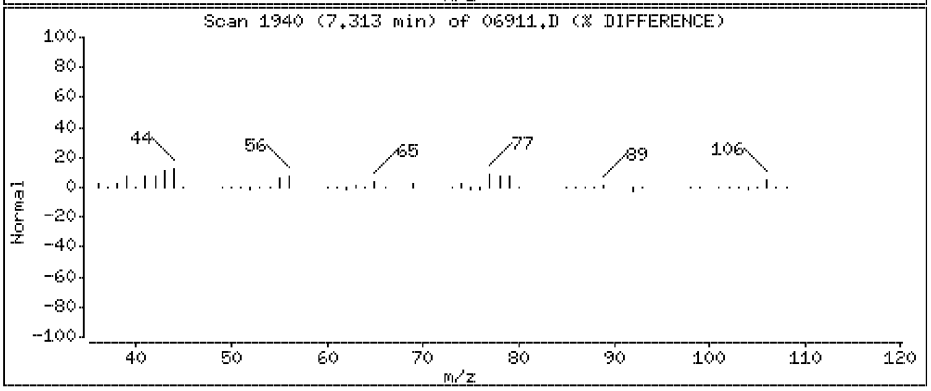












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

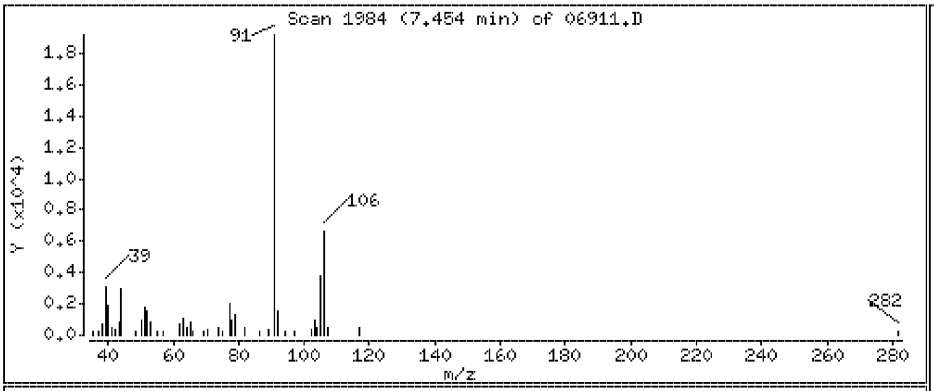
Operator: DR1

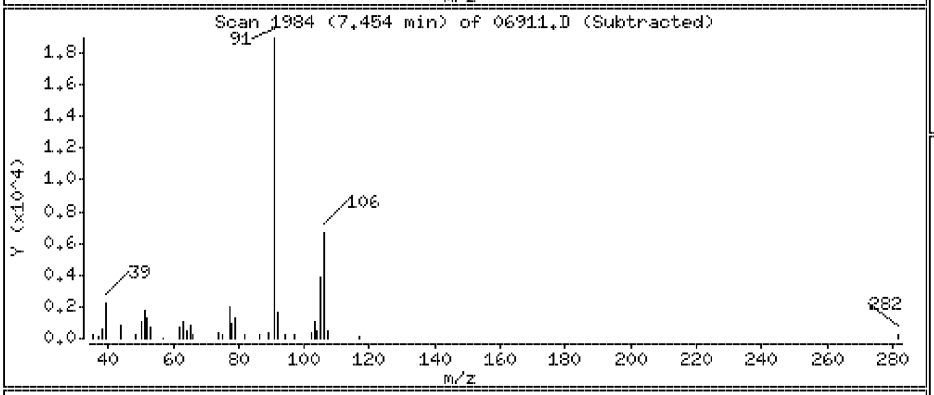
Column phase: J&W DB-5

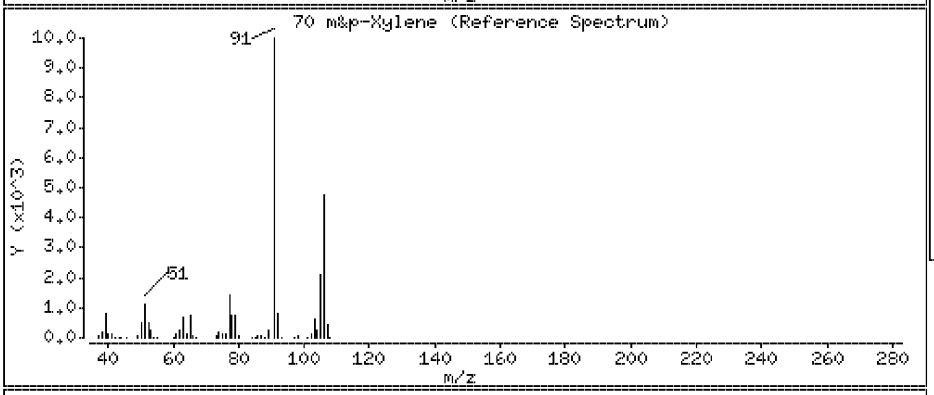
Column diameter: 0.32

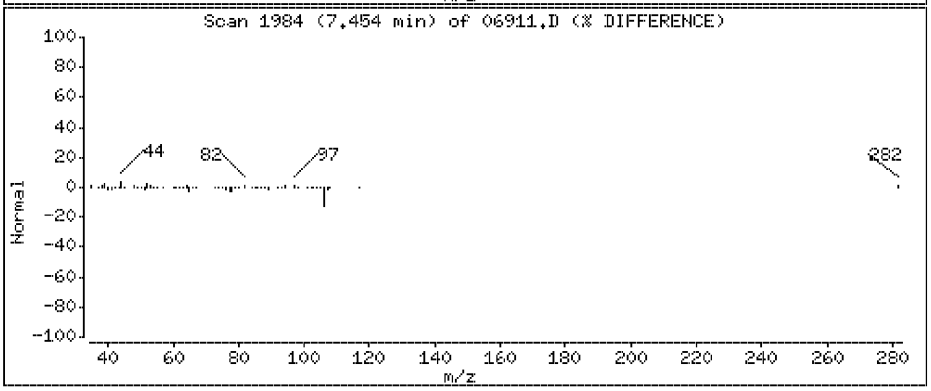
70 m&p-Xylene

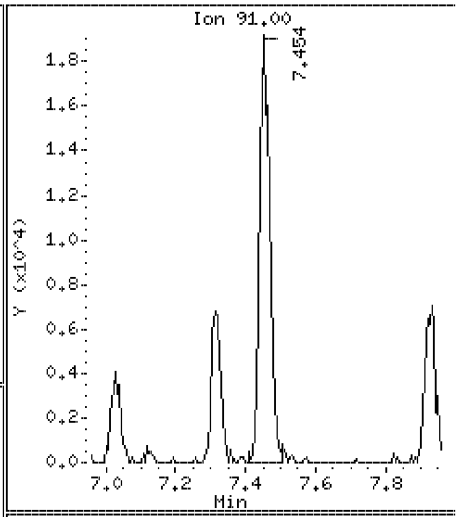
Concentration: 0.516 ppbv

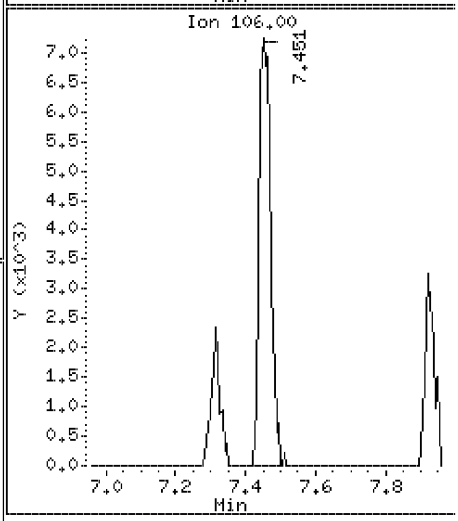












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

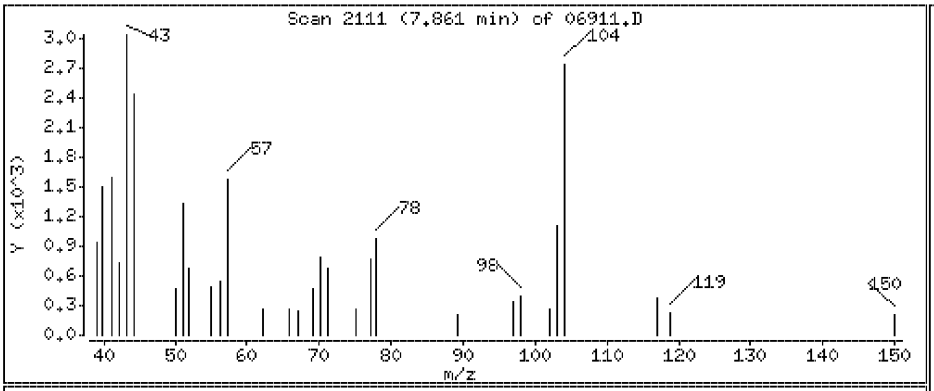
Operator: DR1

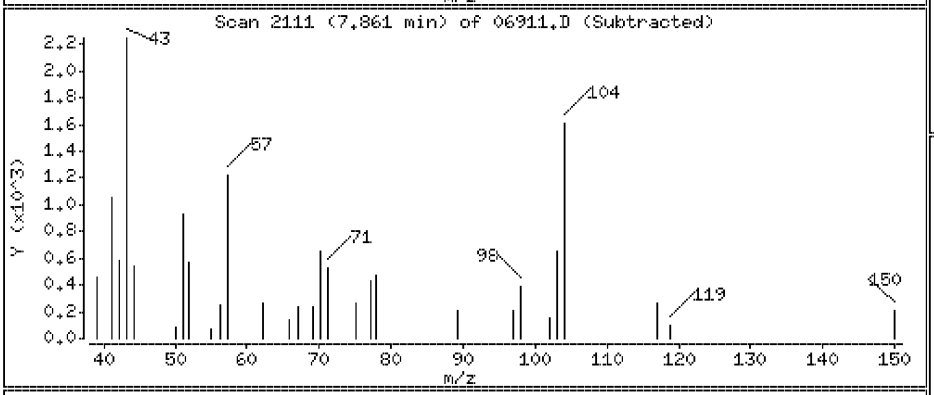
Column phase: J&W DB-5

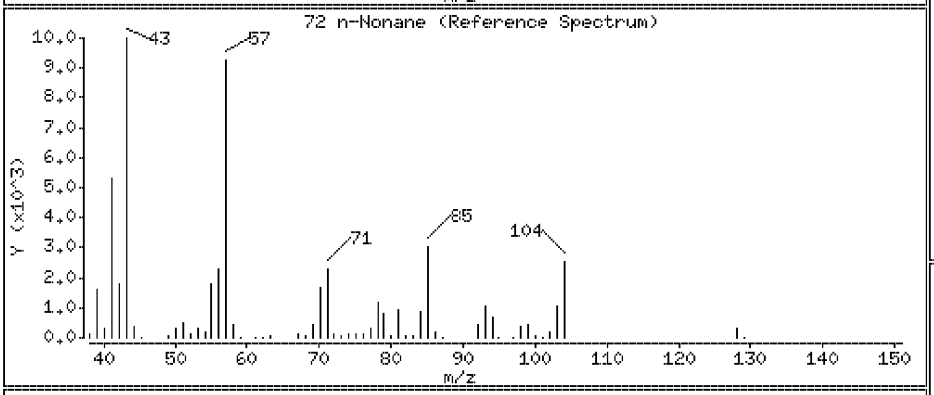
Column diameter: 0.32

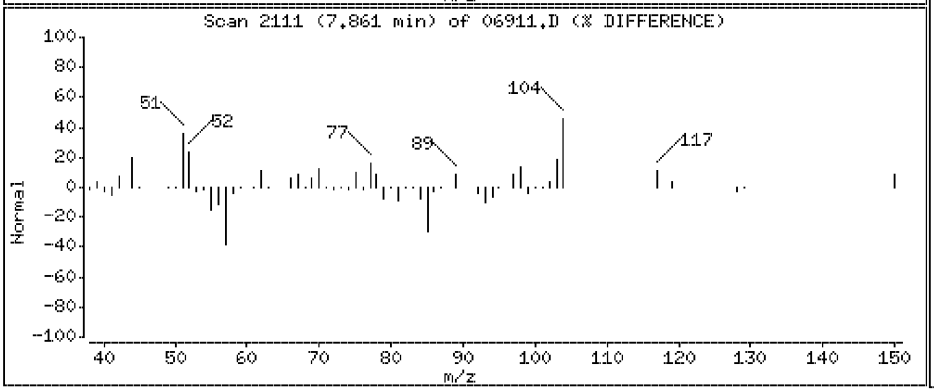
72 n-Nonane

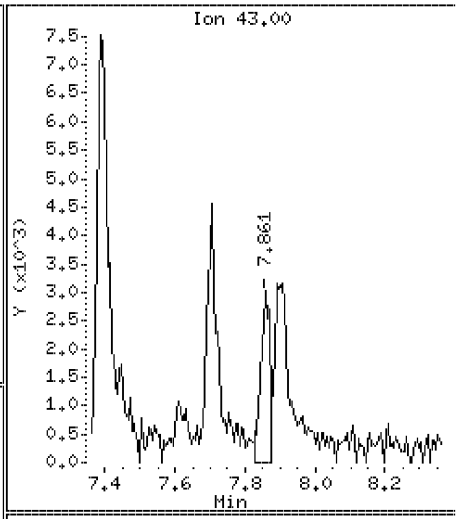
Concentration: 0.148 ppbv

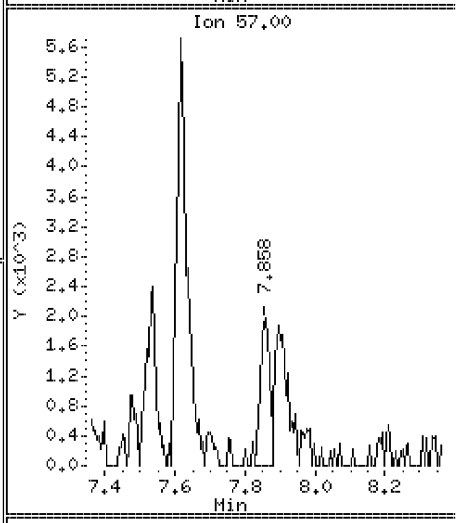


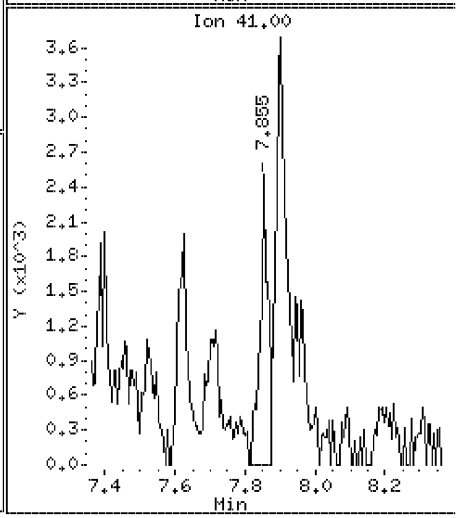












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

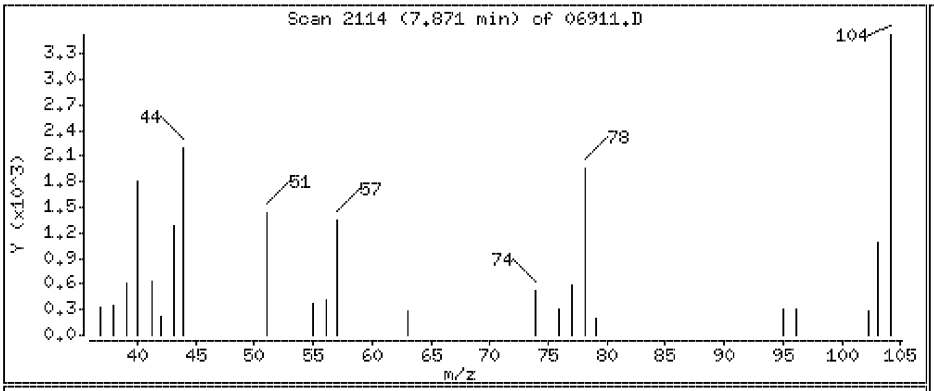
Operator: DR1

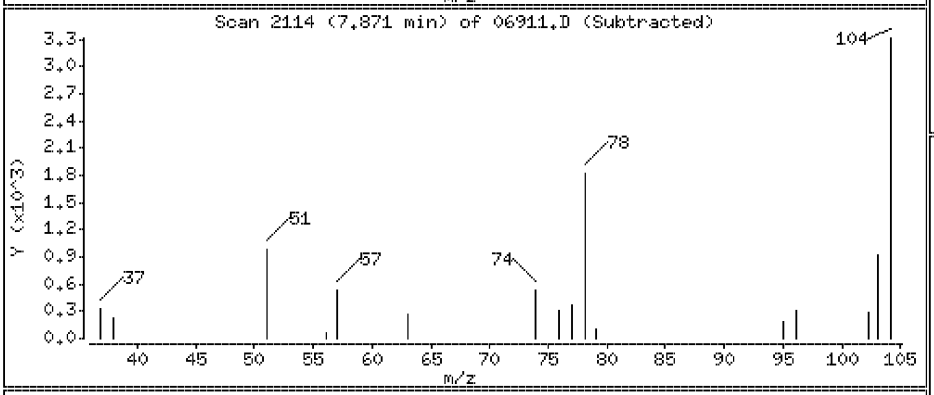
Column phase: J&W DB-5

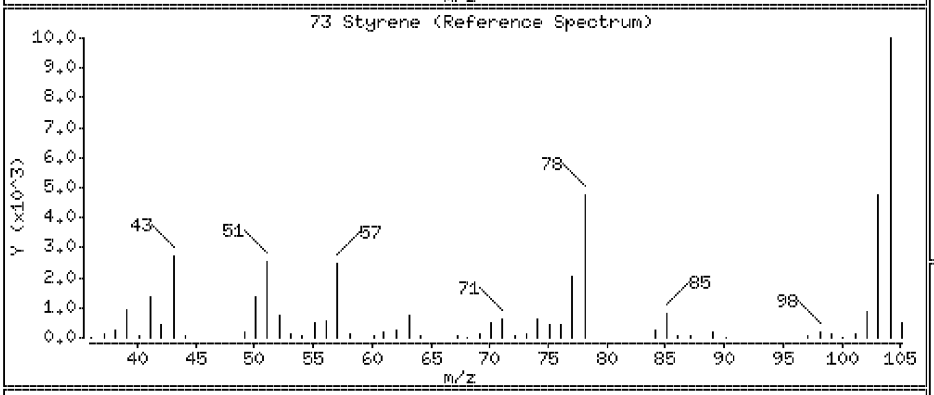
Column diameter: 0.32

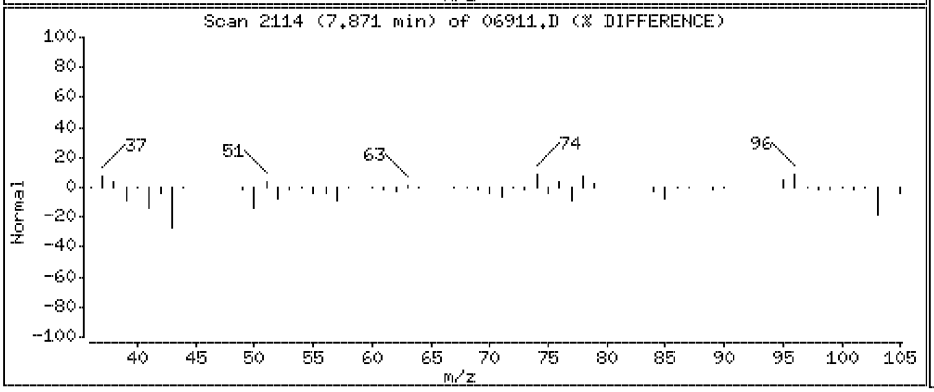
73 Styrene

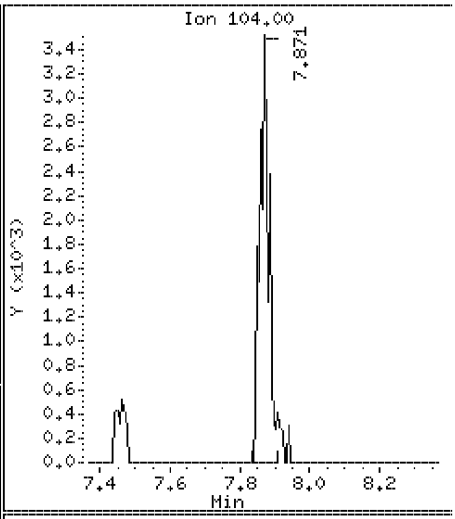
Concentration: 0.167 ppbv

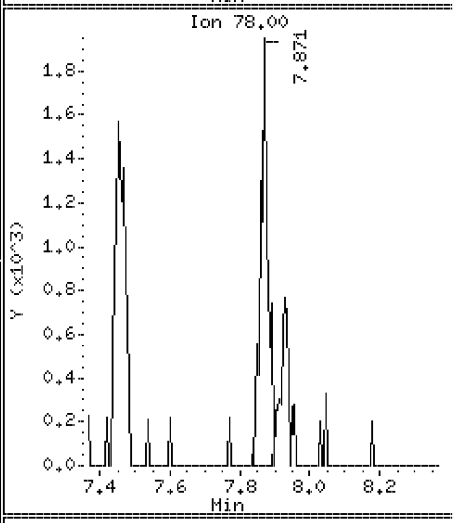


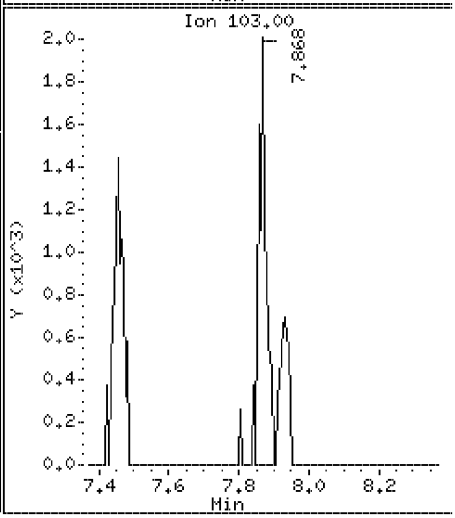












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

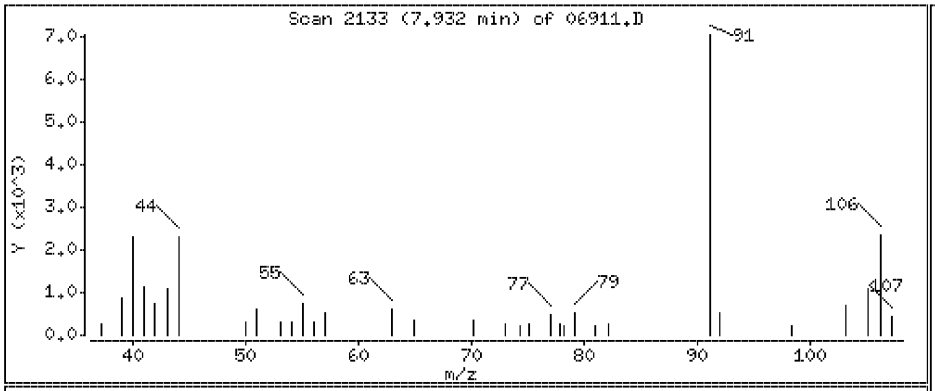
Operator: DR1

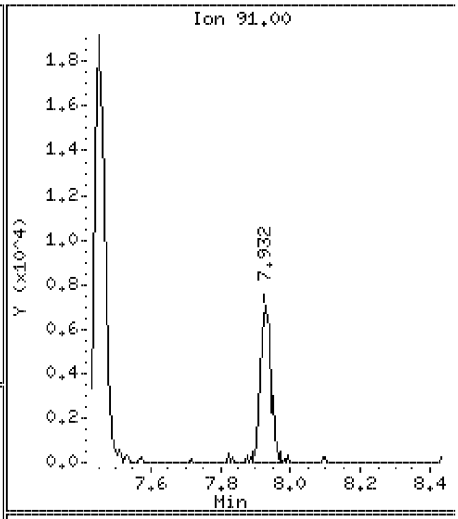
Column phase: J&W DB-5

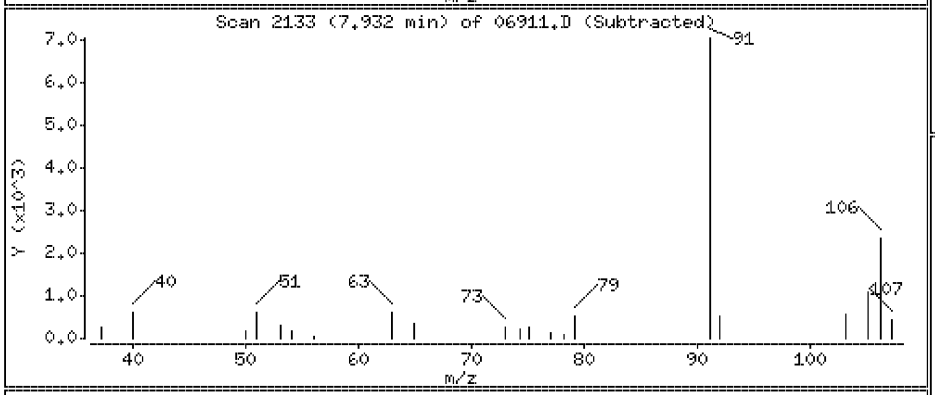
Column diameter: 0.32

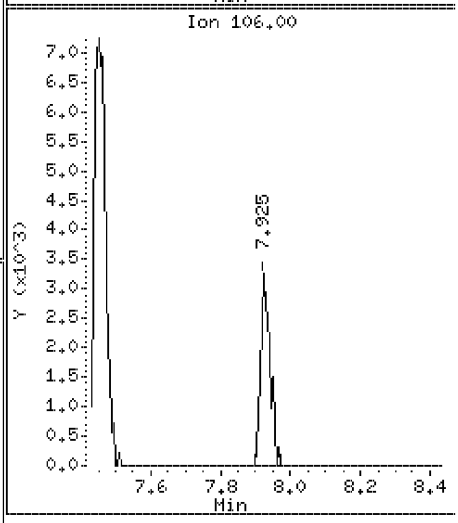
74 o-Xylene

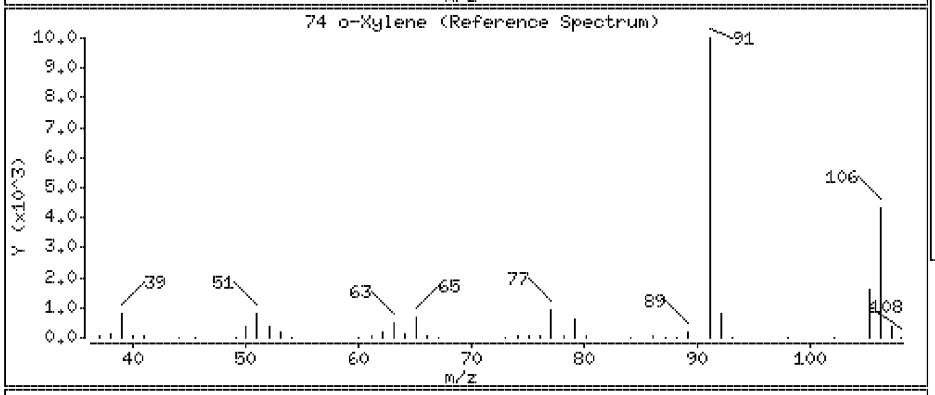
Concentration: 0.266 ppbv

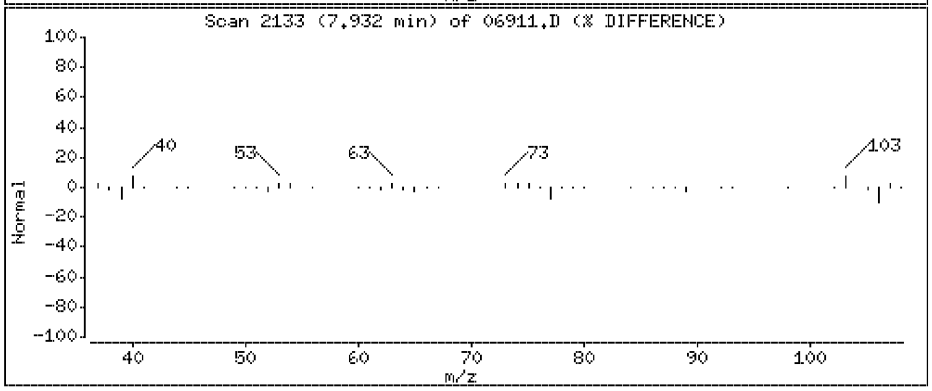












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

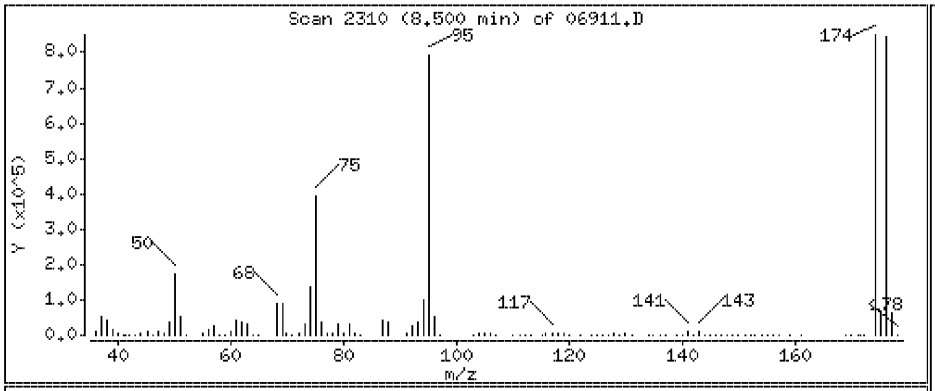
Operator: DR1

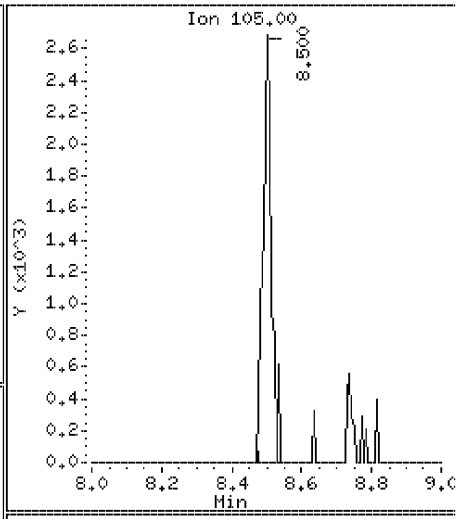
Column phase: J&W DB-5

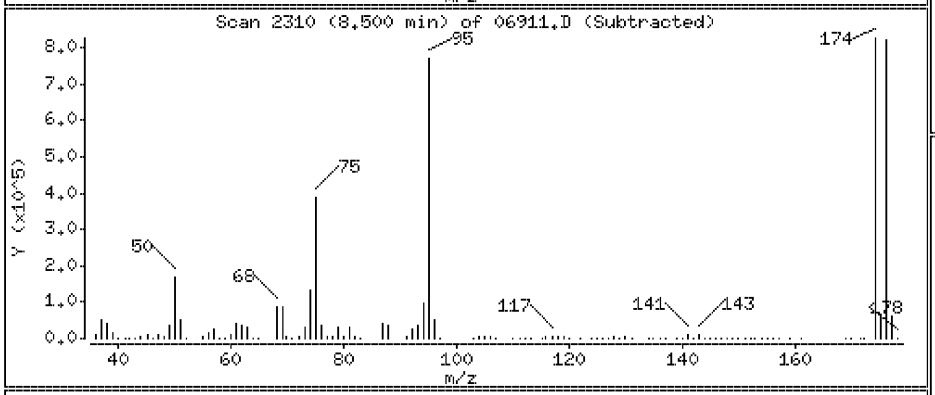
Column diameter: 0.32

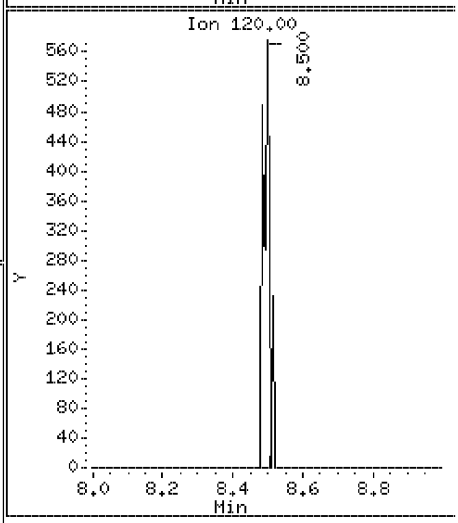
76 Isopropylbenzene

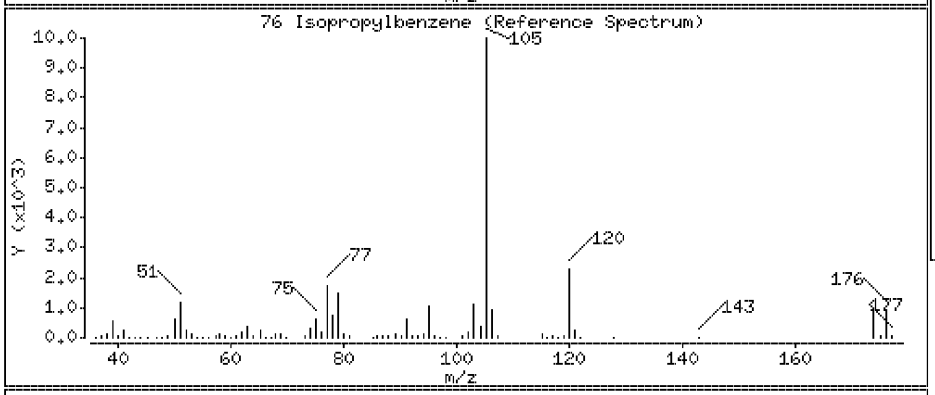
Concentration: 0.0638 ppbv

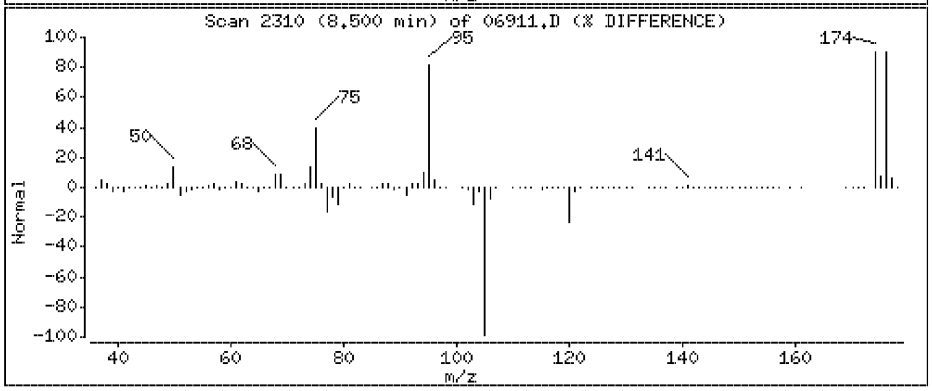












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

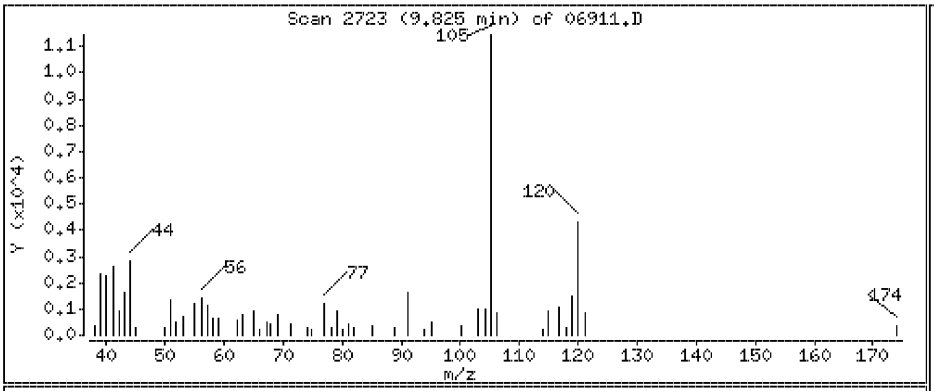
Operator: DR1

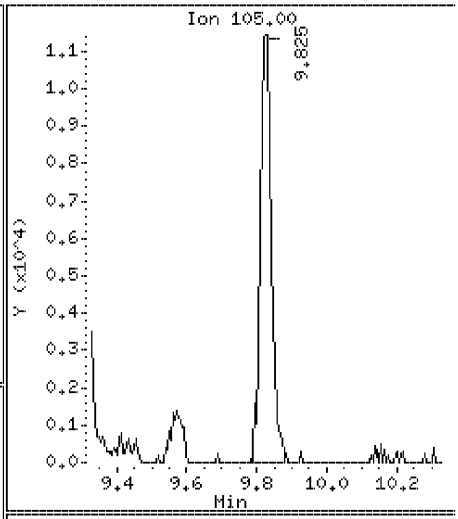
Column phase: J&W DB-5

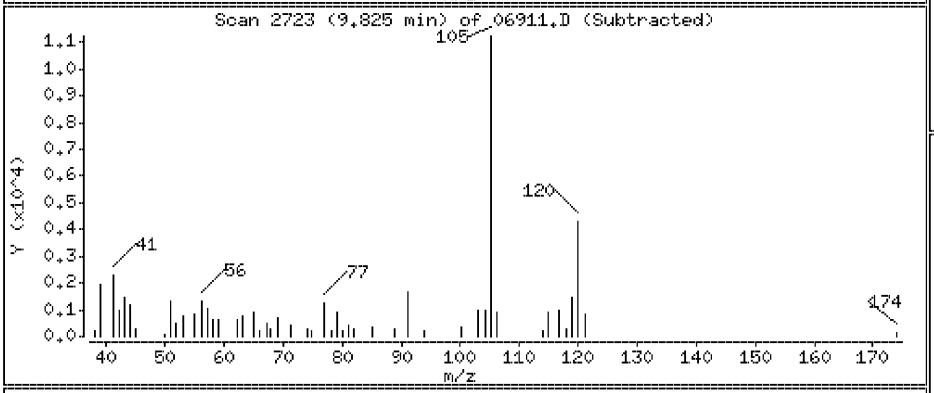
Column diameter: 0.32

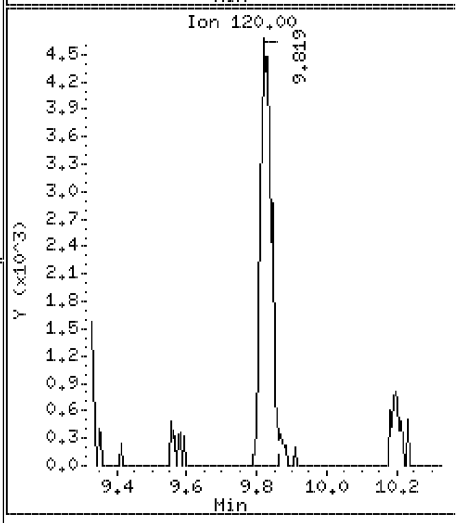
82 1,2,4-Trimethylbenzene

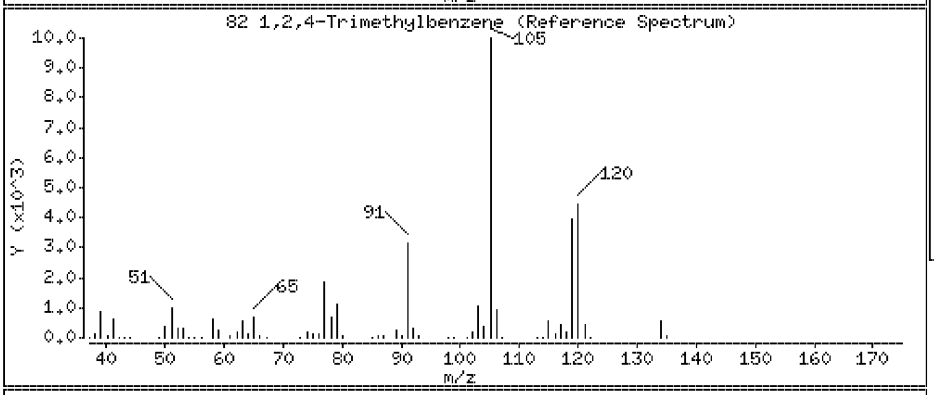
Concentration: 0.262 ppbv

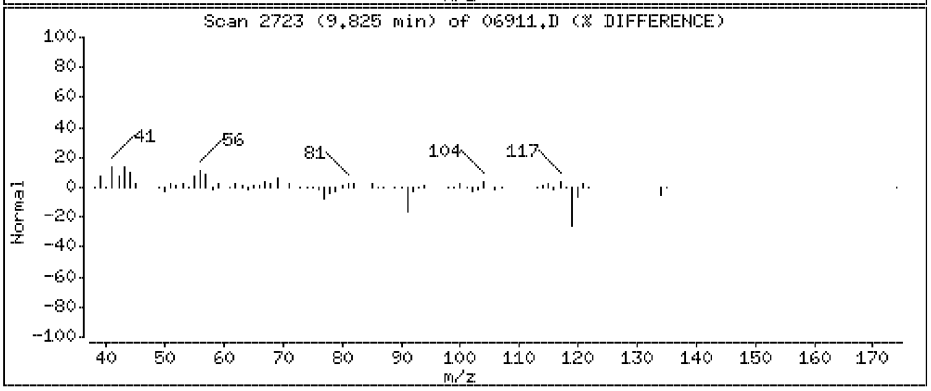












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06911.D

Date : 10-MAR-2017 19:44

Client ID:

Instrument: 10airD.i

Sample Info:

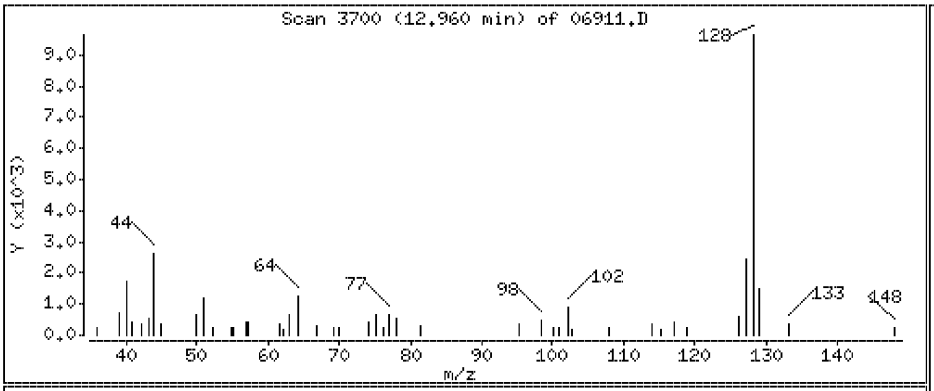
Operator: DR1

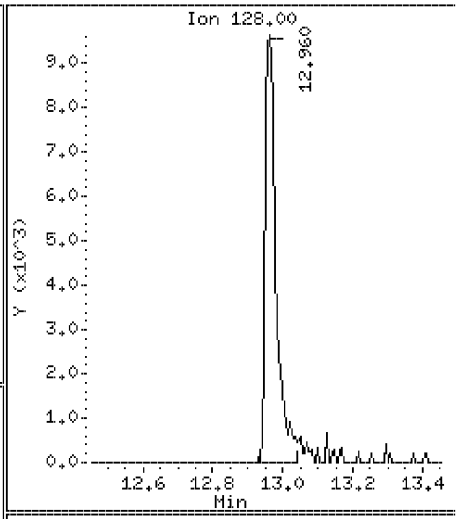
Column phase: J&W DB-5

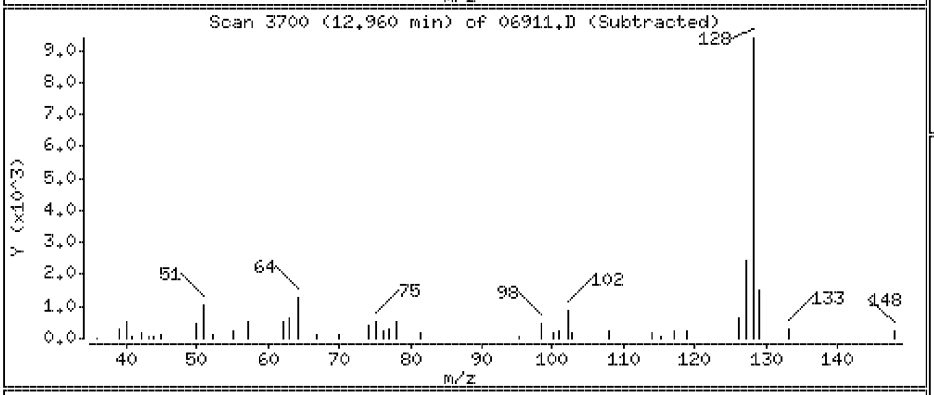
Column diameter: 0.32

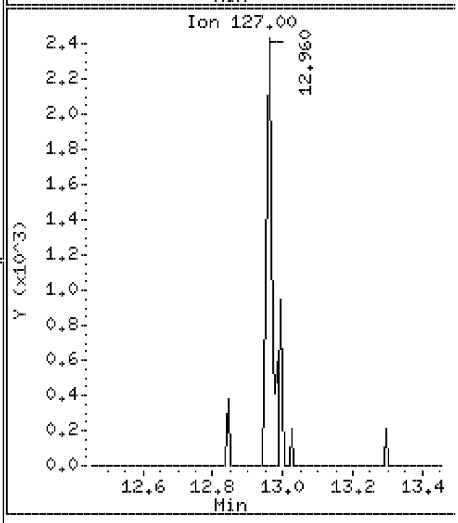
94 Naphthalene

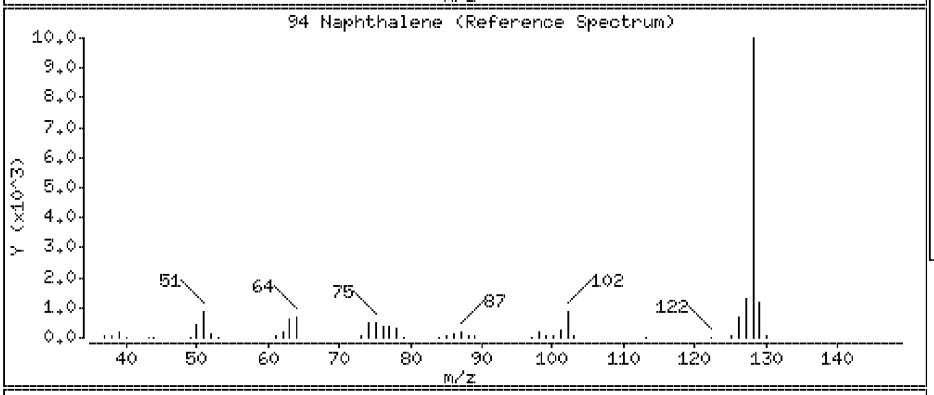
Concentration: 1.31 ppbv

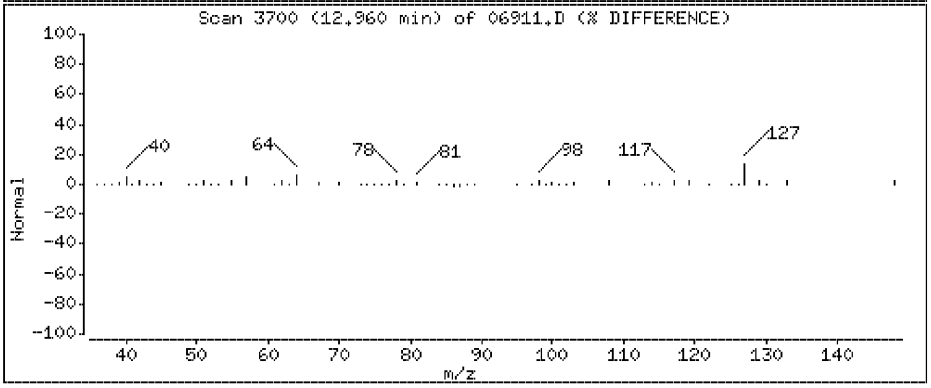






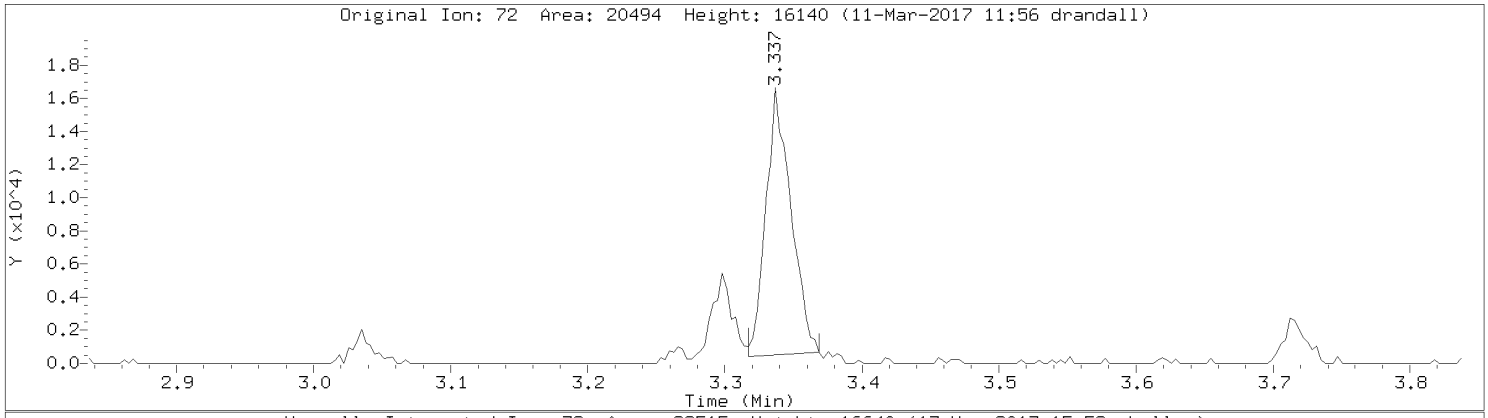


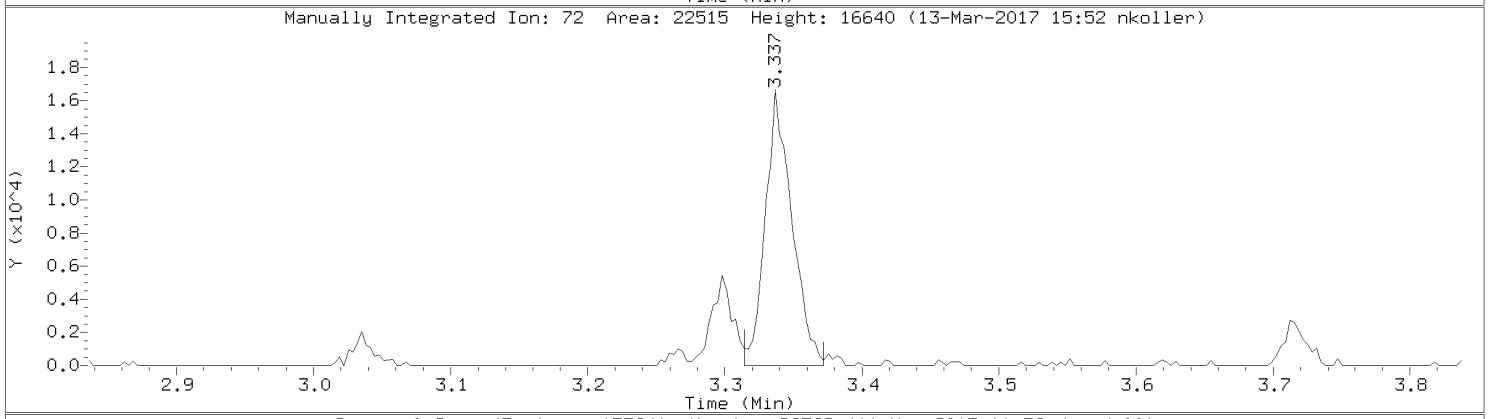


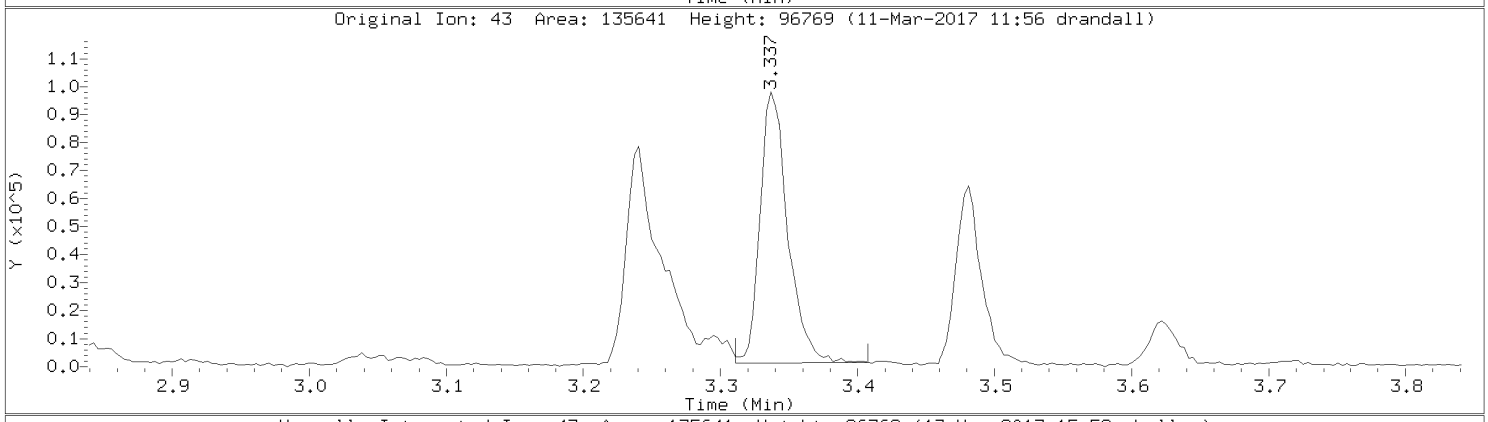


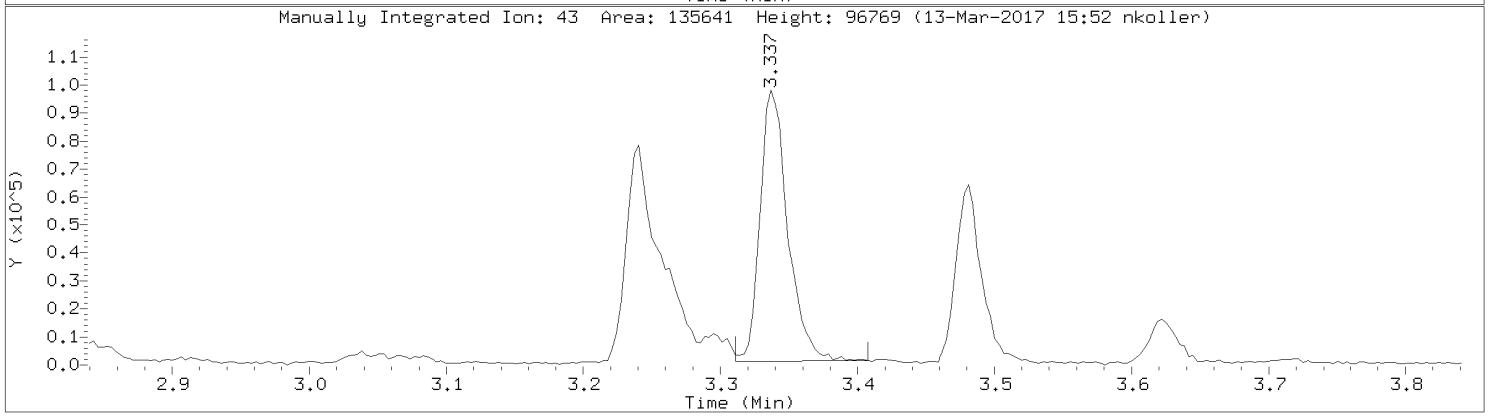
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06911.d
Injection Date: 10-MAR-2017 19:44
Instrument: 10airD.i
Lab Sample ID: 10380372005

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



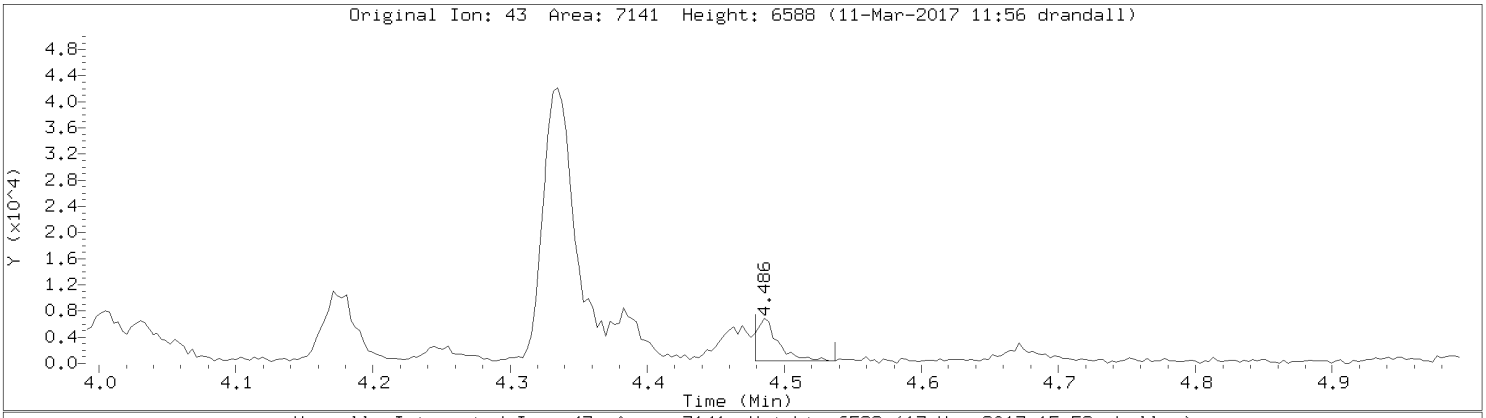


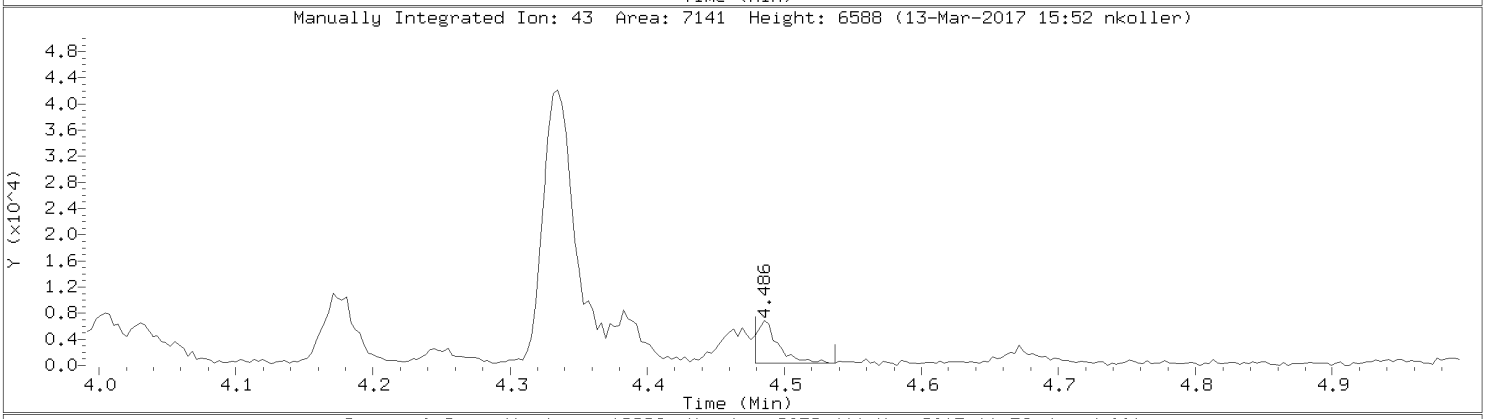


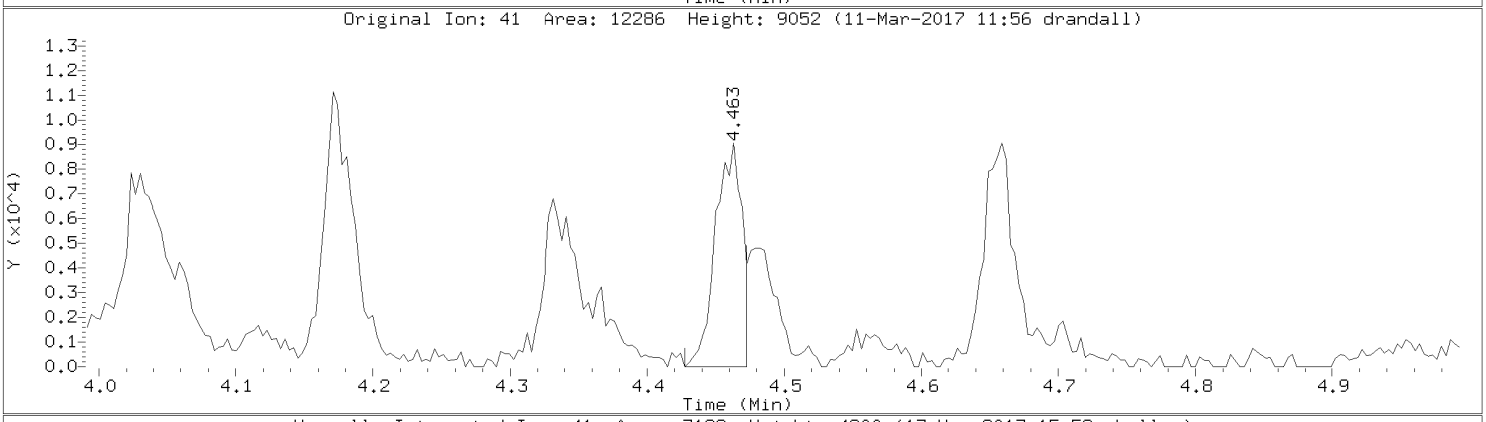


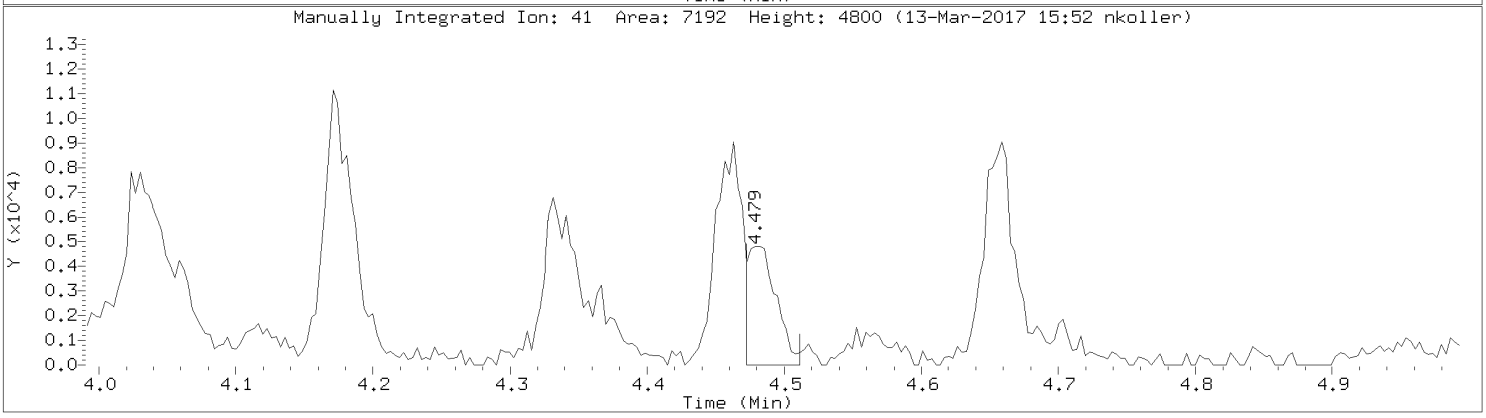
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06911.d
Injection Date: 10-MAR-2017 19:44
Instrument: 10airD.i
Lab Sample ID: 10380372005

Compound: Heptane
CAS Number: 142-82-5



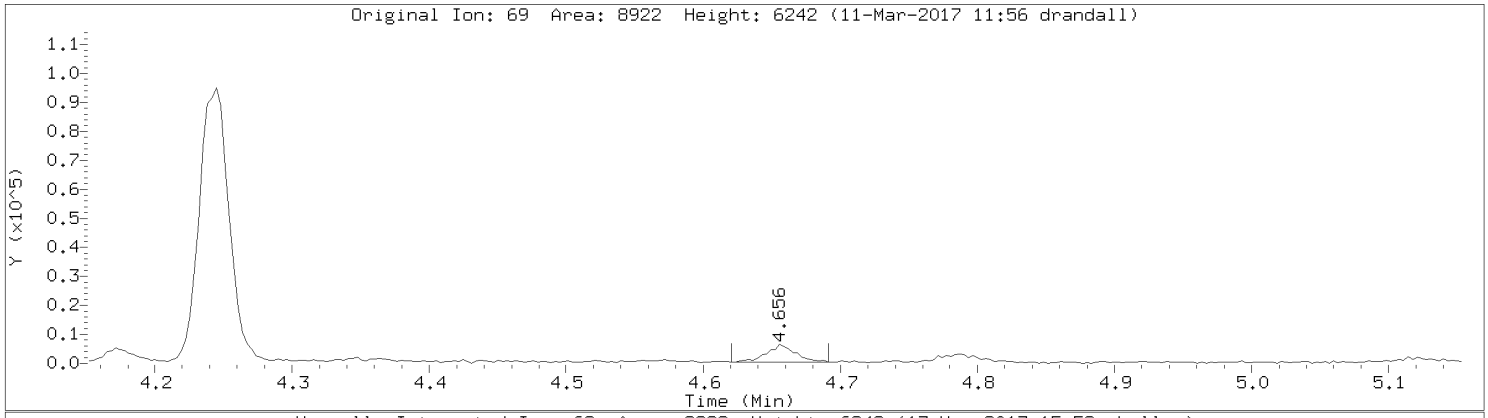


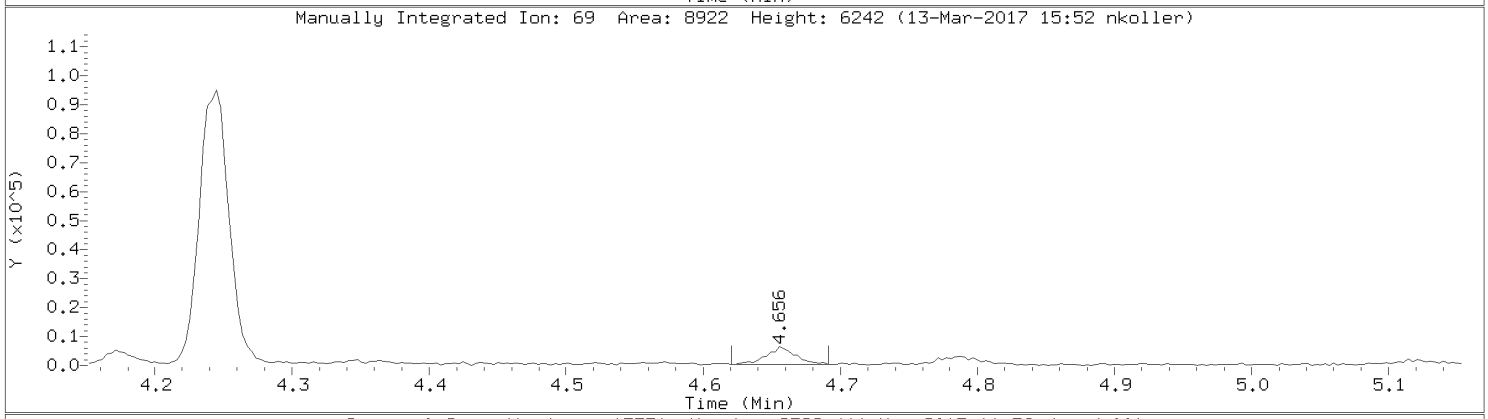


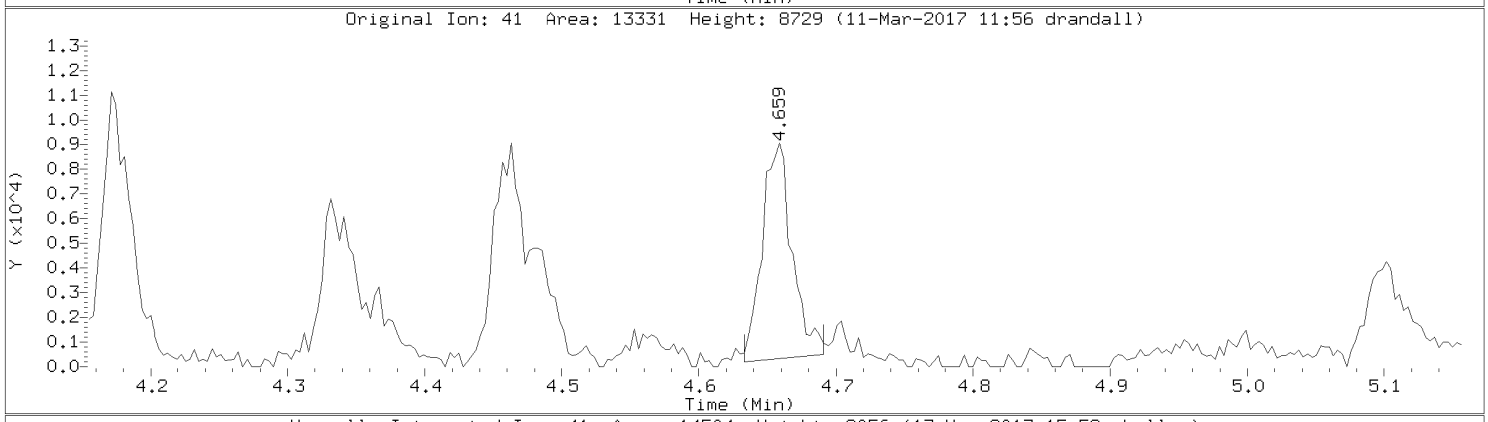


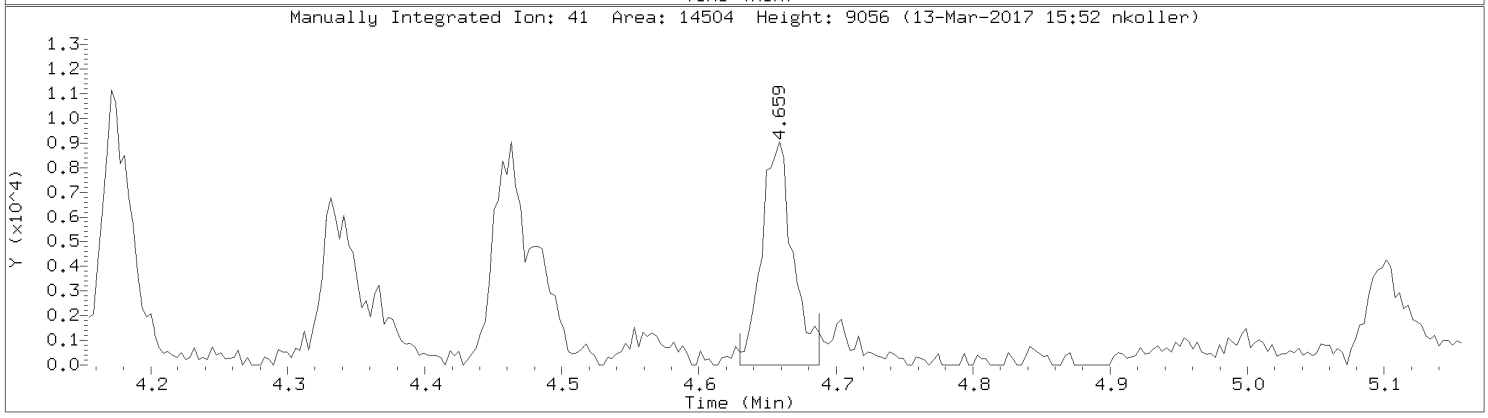
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06911.d
Injection Date: 10-MAR-2017 19:44
Instrument: 10airD.i
Lab Sample ID: 10380372005

Compound: Methyl methacrylate
CAS Number: 80-62-6



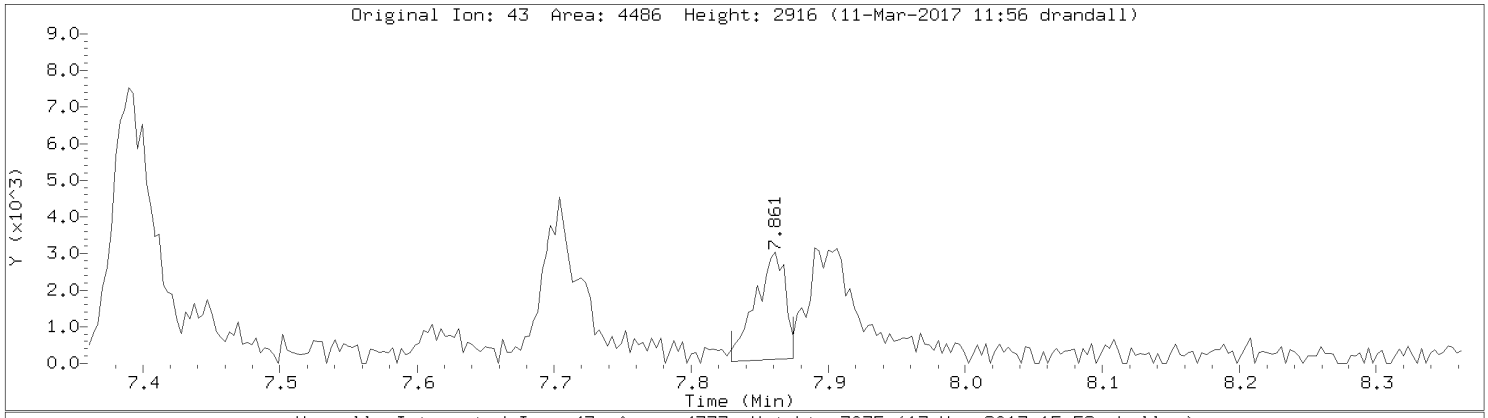


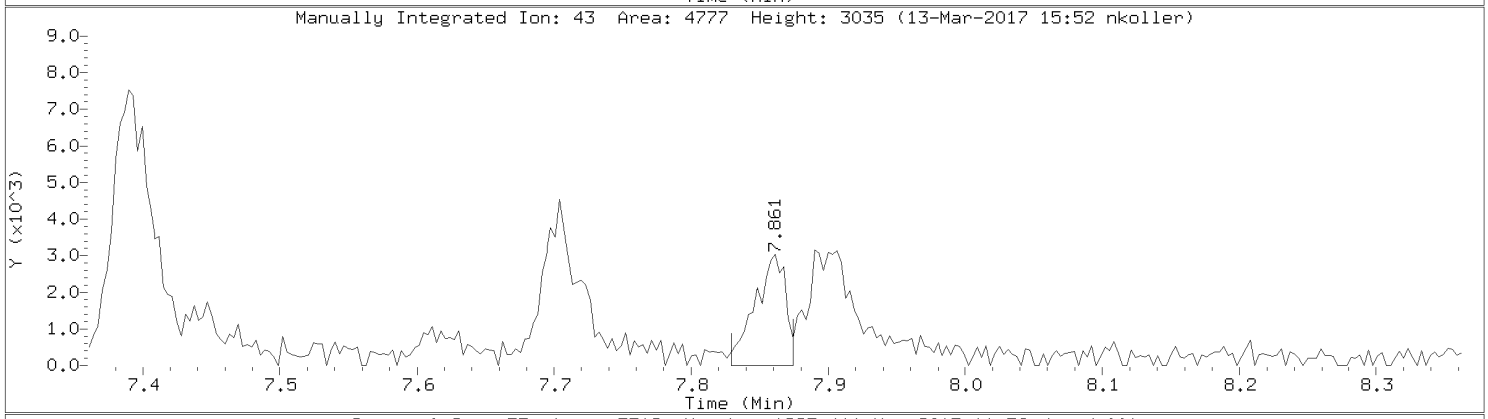


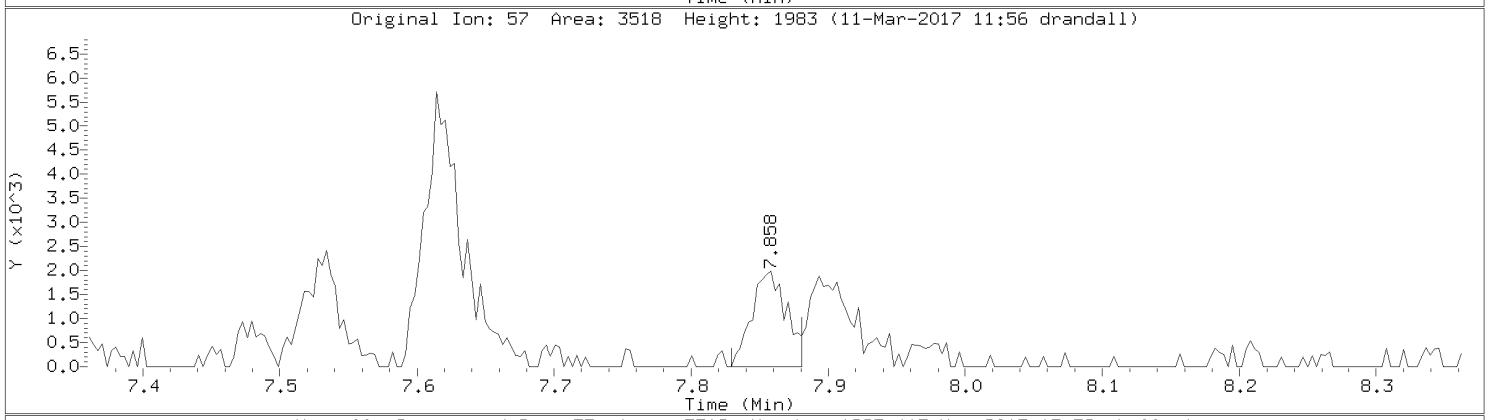


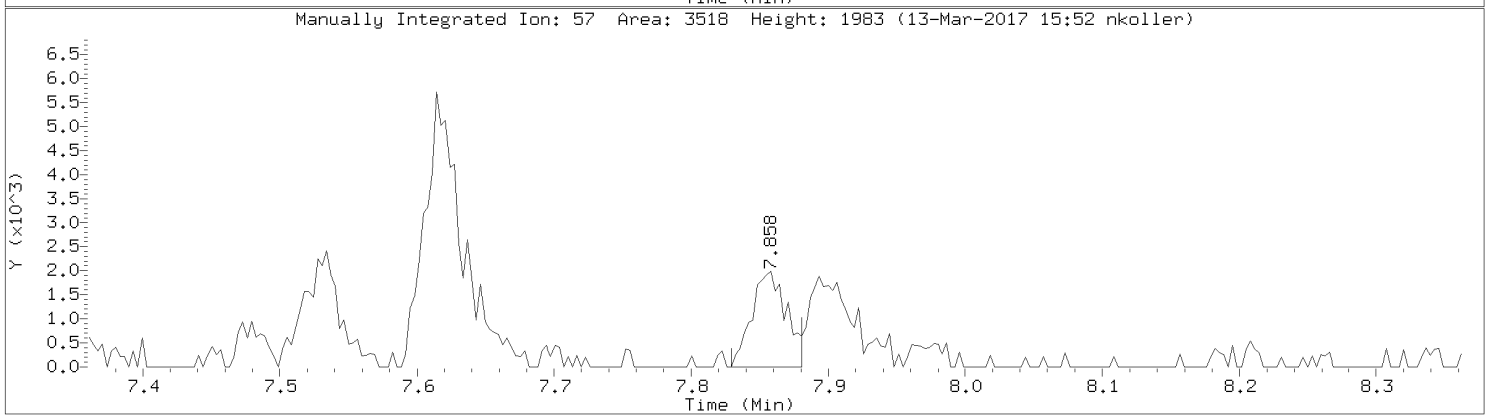
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06911.d
Injection Date: 10-MAR-2017 19:44
Instrument: 10airD.i
Lab Sample ID: 10380372005

Compound: n-Nonane
CAS Number: 111-84-2

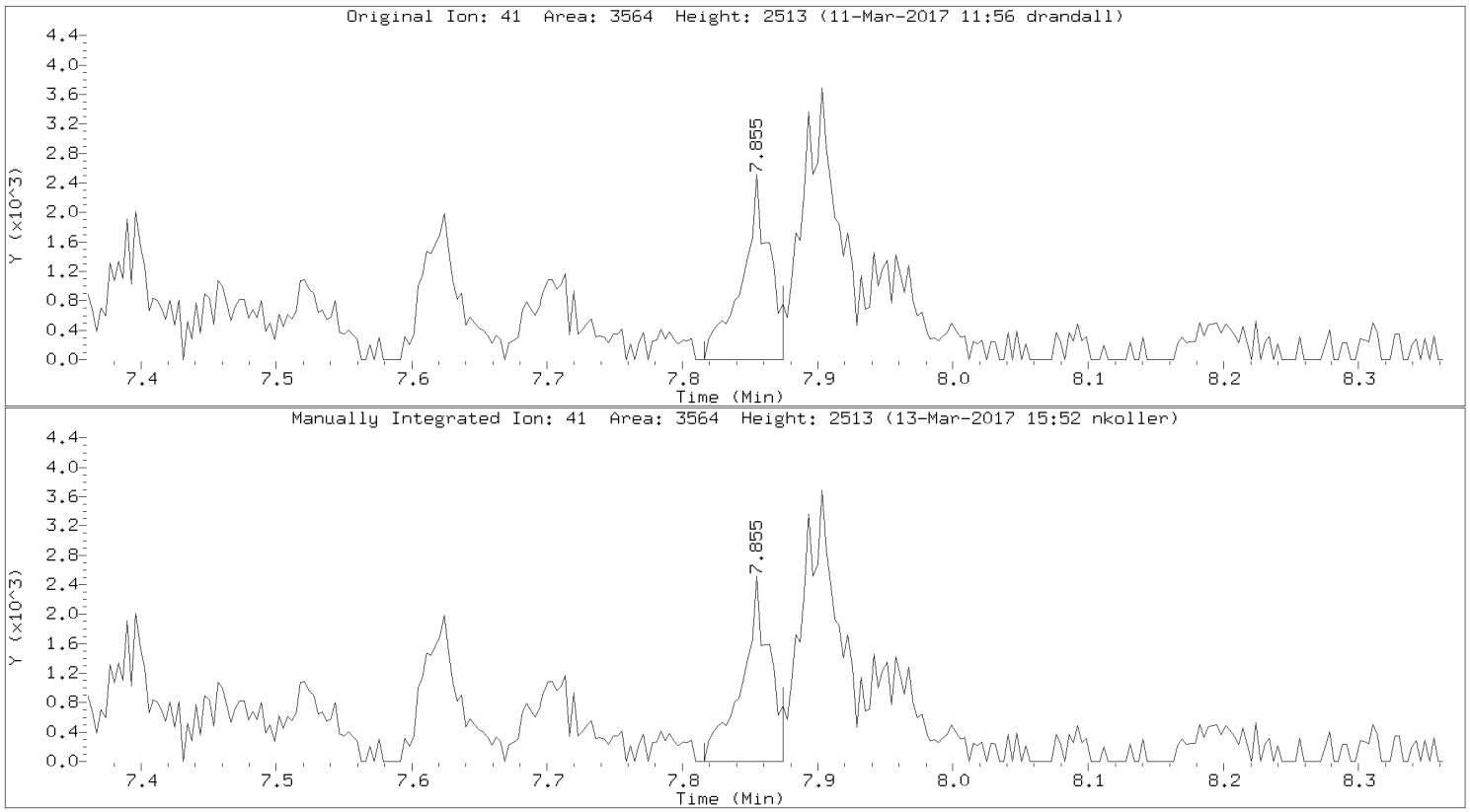








Data File: \\192.168.10.12\chem\10airD.i\031017.b/06911.d
Injection Date: 10-MAR-2017 19:44
Instrument: 10airD.i
Lab Sample ID: 10380372005



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.d
Report Date: 13-Mar-2017 14:17

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07010.d
Lab Smp Id: 10380372005
Inj Date : 11-MAR-2017 15:54
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 10
Dil Factor: 18.30000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	18.300	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.508	2.534	(0.591)	11231	2.35548	43.1	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	2.537	2.572	(0.598)	4489	0.15087	2.76(Q)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.646	2.666	(0.624)	50438	0.54373	9.95(M)	
19	Isopropyl Alcohol	45	2.685	2.704	(0.633)	31564	1.30469	23.9(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.d
Report Date: 13-Mar-2017 14:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.291	(0.771)	1510567	9.16195	9.16	
	33 Methyl Ethyl Ketone	72	3.356	3.362	(0.791)	1763	0.17855	3.27(Q)	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	37 Ethyl Acetate	43	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	45 Carbon tetrachloride	117	Compound Not Detected.						(D)
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.267	(1.000)	3105650	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	4.562	4.591	(1.076)	175202	4.67026	85.5	
	52 Methyl methacrylate	69	4.662	4.671	(1.099)	577	0.02328	0.426(aQ)	
	53 Bromodichloromethane	83	Compound Not Detected.						(D)
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.563	5.579	(1.312)	2960933	9.51480	9.51	
	60 Toluene	91	5.631	5.650	(1.328)	52913	0.57634	10.5	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.404	6.417	(0.911)	144401	2.86859	52.5	
*	67 Chlorobenzene - d5	117	7.030	7.042	(1.000)	2277008	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.312	7.325	(1.040)	3684	0.03687	0.675(a)	
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	7.931	7.938	(1.128)	4325	0.05251	0.961	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	8.503	8.506	(1.210)	2543	0.02494	0.456(a)	
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.d
Report Date: 13-Mar-2017 14:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	9.314	9.321	(1.325)	6040	0.03607	0.660(a)	
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.828	9.834	(1.398)	14423	0.07288	1.33	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.203	(1.450)	1304508	9.35069	9.35	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.d
Report Date: 13-Mar-2017 14:17

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07010.d
Lab Smp Id: 10380372005
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 11-MAR-2017
Calibration Time: 10:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

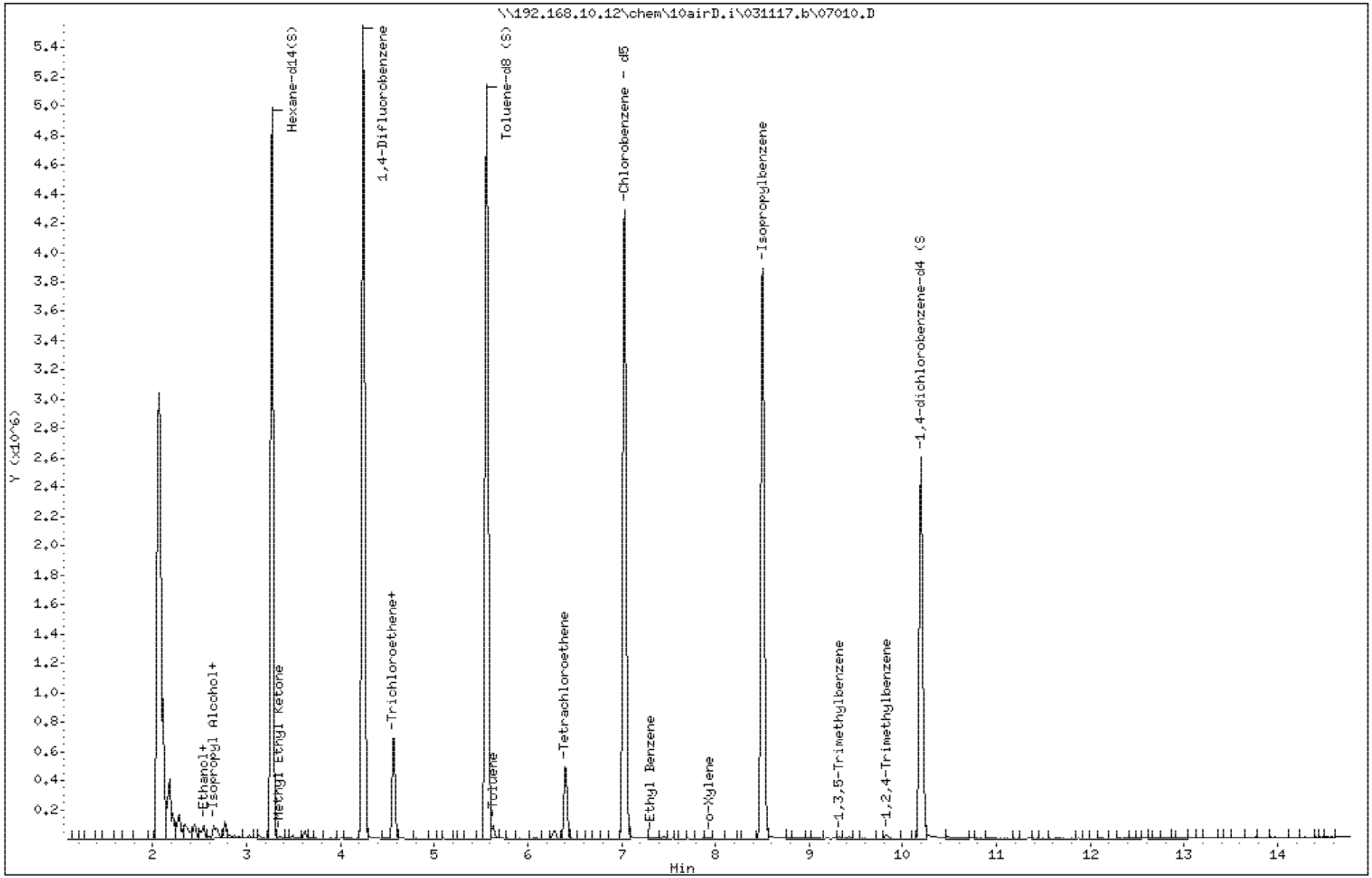
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3105650	-18.00
67 Chlorobenzene - d	3280875	1968525	4593225	2277008	-30.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.27	3.94	4.60	4.24	-0.60
67 Chlorobenzene - d	7.04	6.71	7.37	7.03	-0.18

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D
Date : 11-MAR-2017 15:54
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

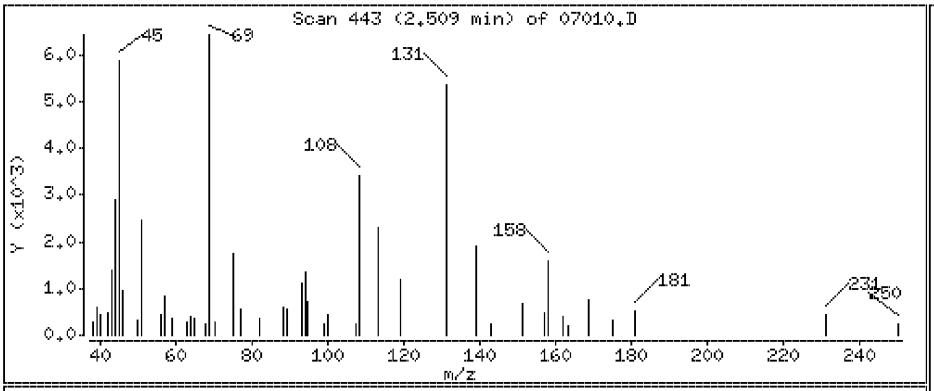
Operator: DR1

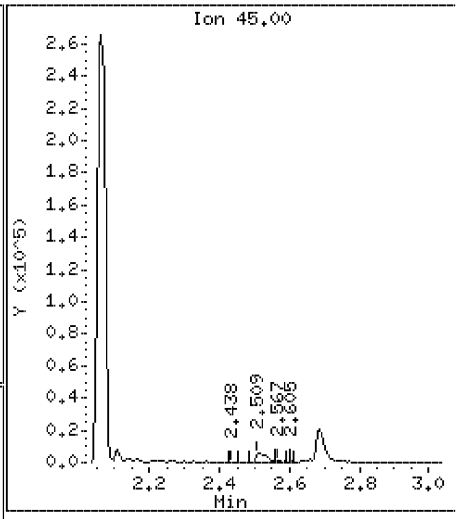
Column phase: J&W DB-5

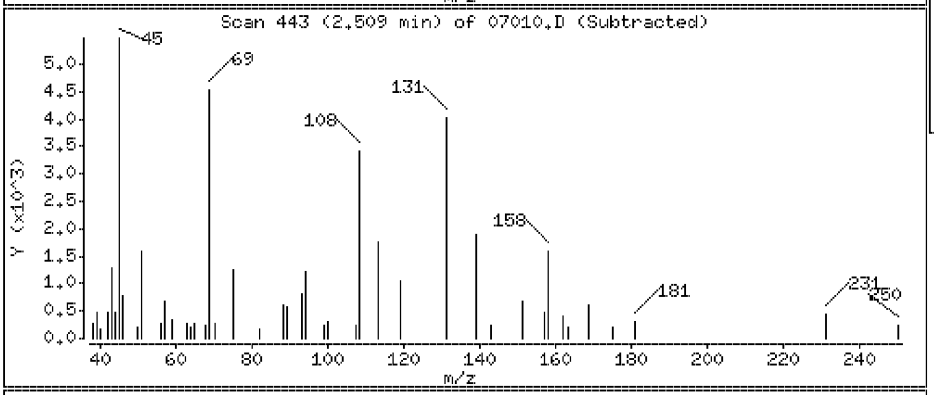
Column diameter: 0.32

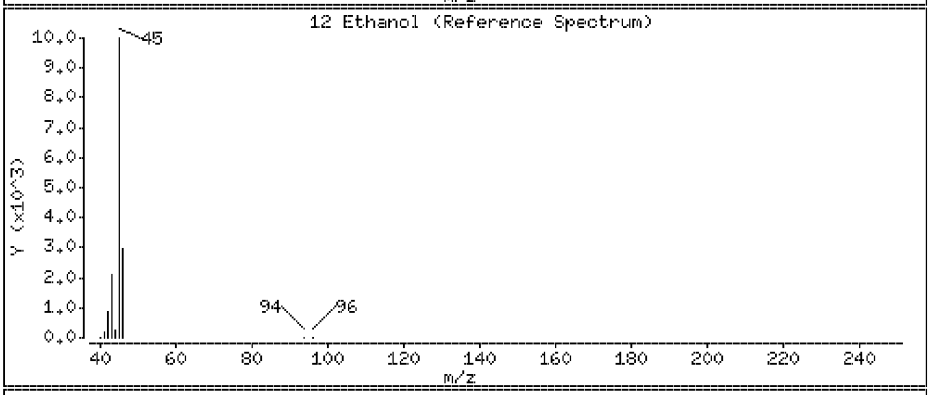
12 Ethanol

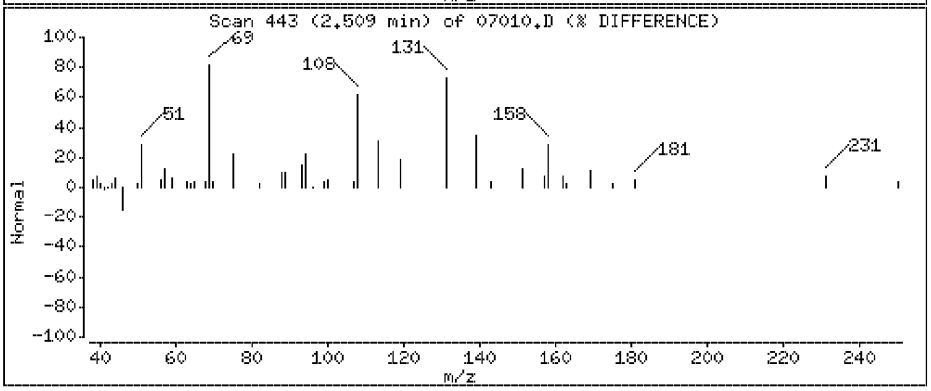
Concentration: 43.1 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

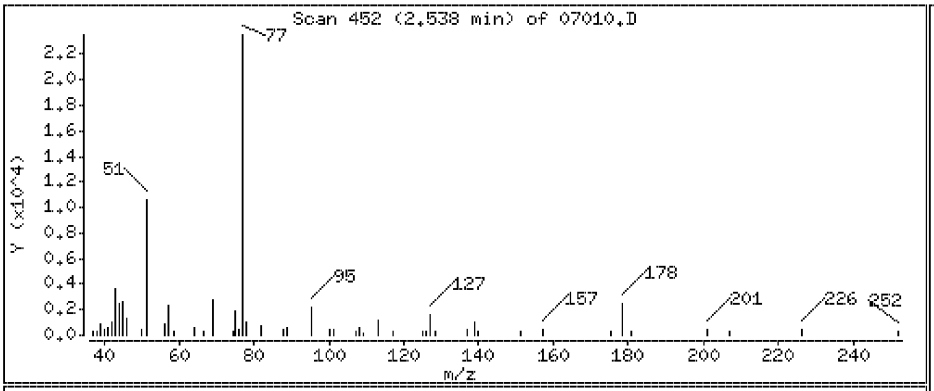
Operator: DR1

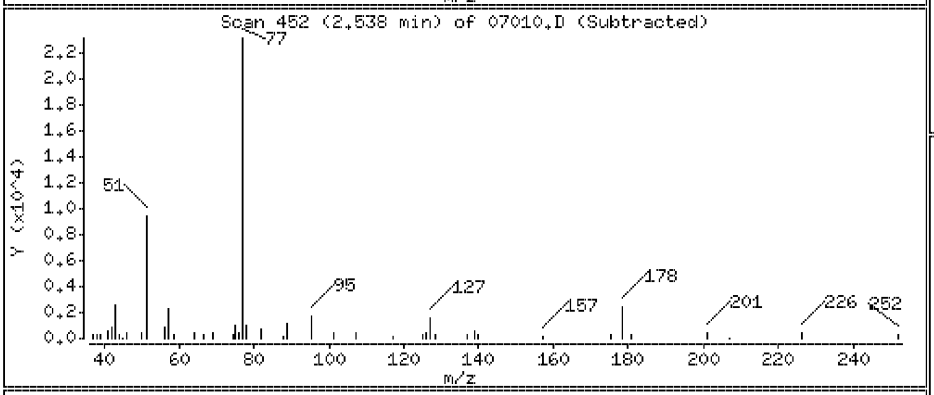
Column phase: J&W DB-5

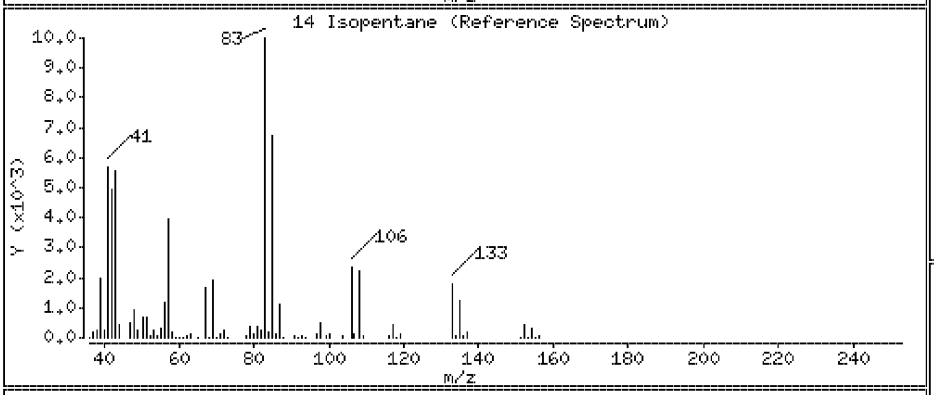
Column diameter: 0.32

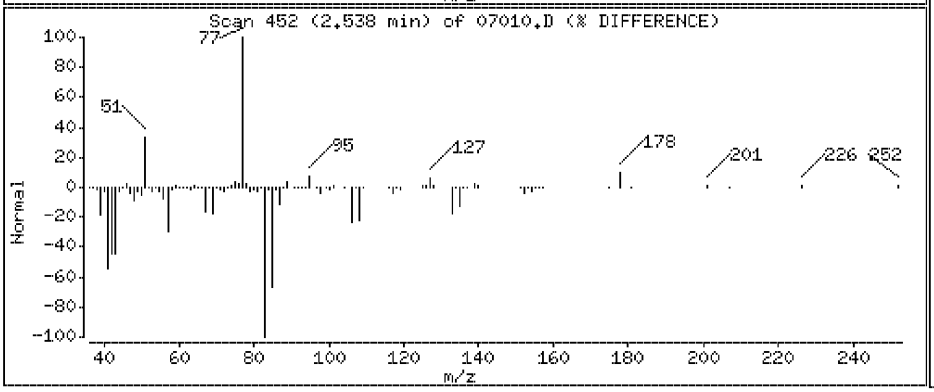
14 Isopentane

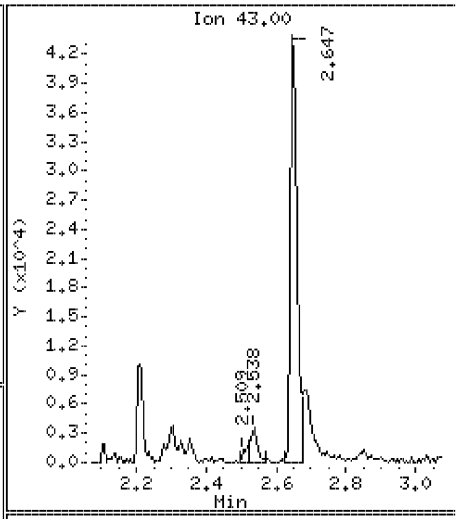
Concentration: 2.76 ppbv

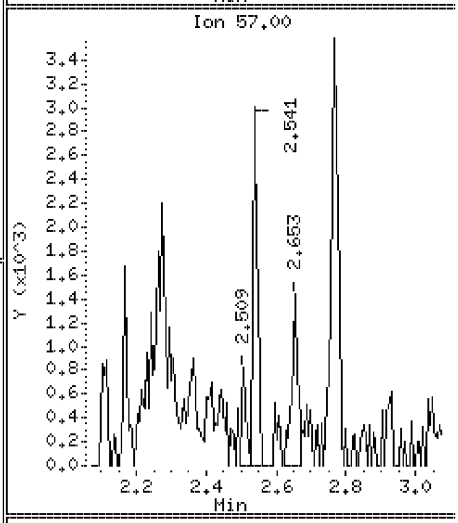


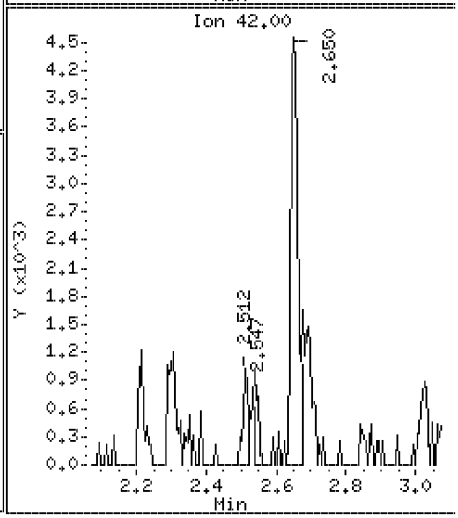












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

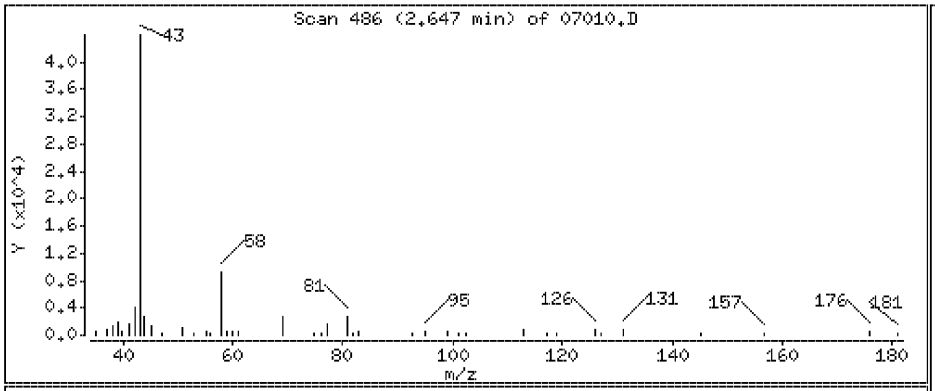
Operator: DR1

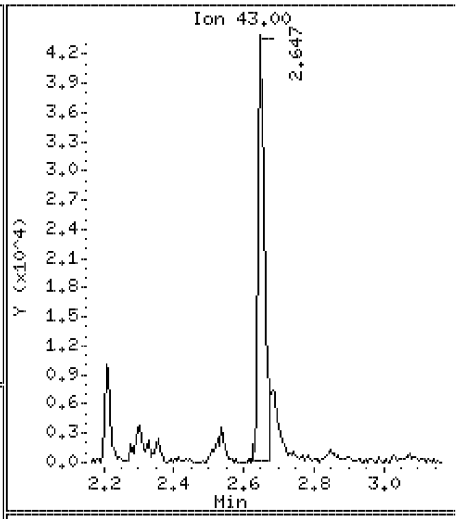
Column phase: J&W DB-5

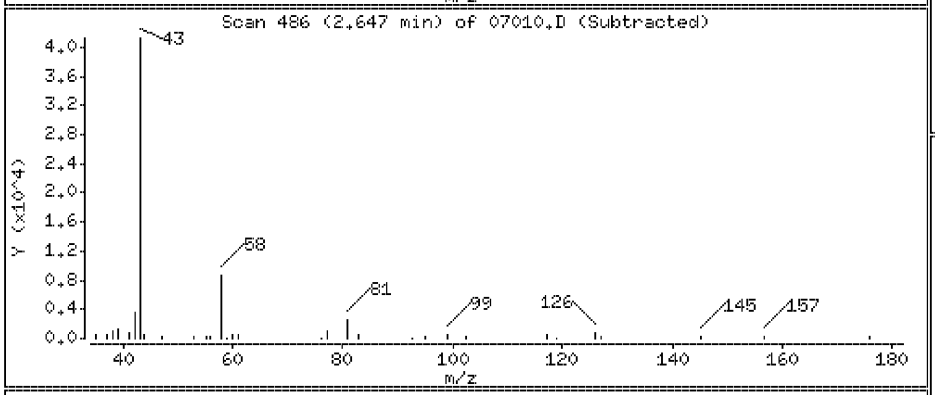
Column diameter: 0.32

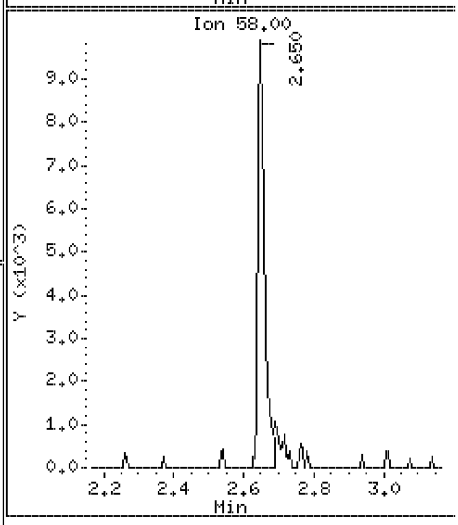
18 Acetone

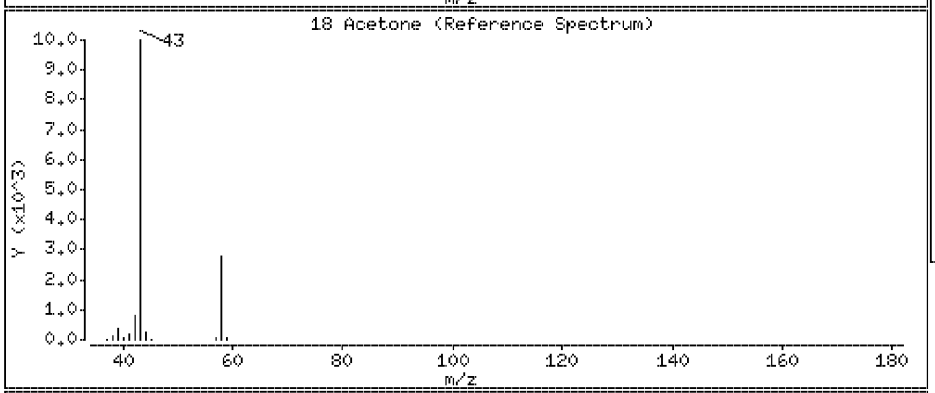
Concentration: 9.95 ppbv

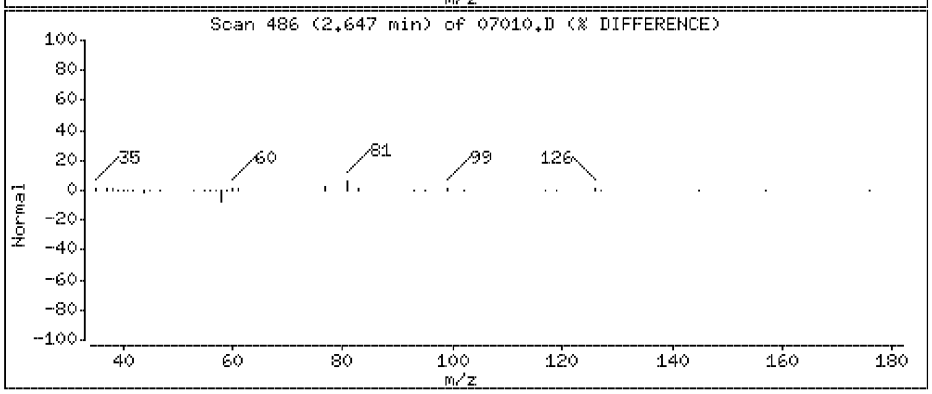












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

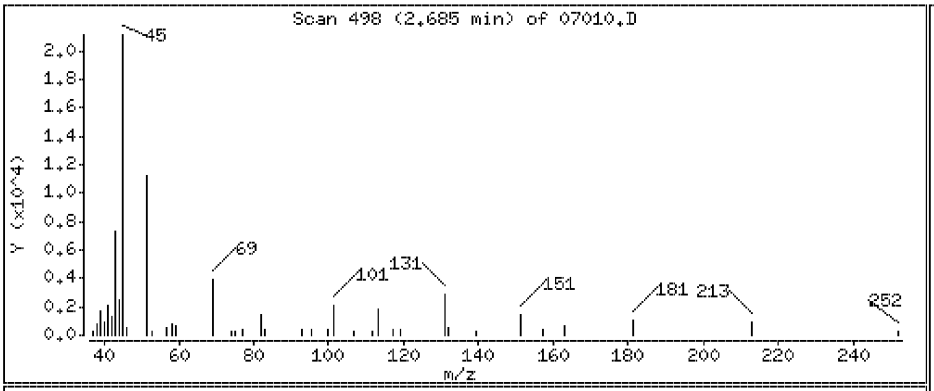
Operator: DR1

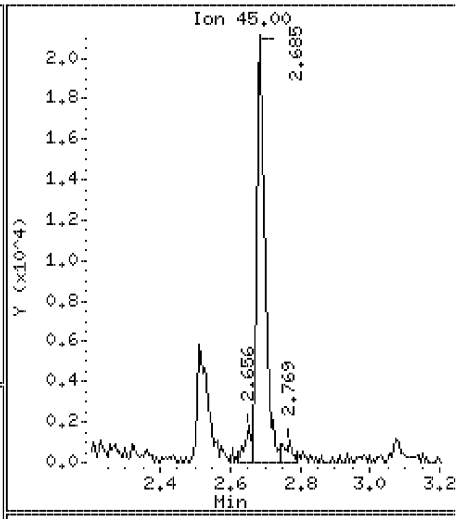
Column phase: J&W DB-5

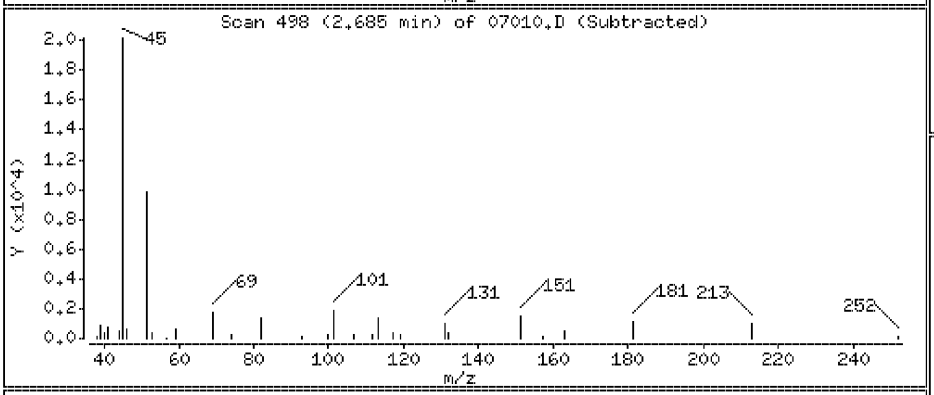
Column diameter: 0.32

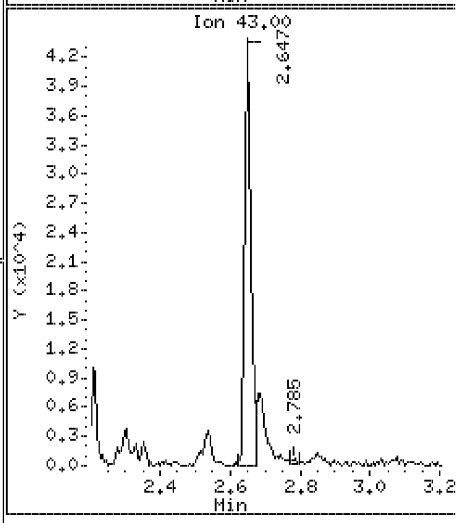
19 Isopropyl Alcohol

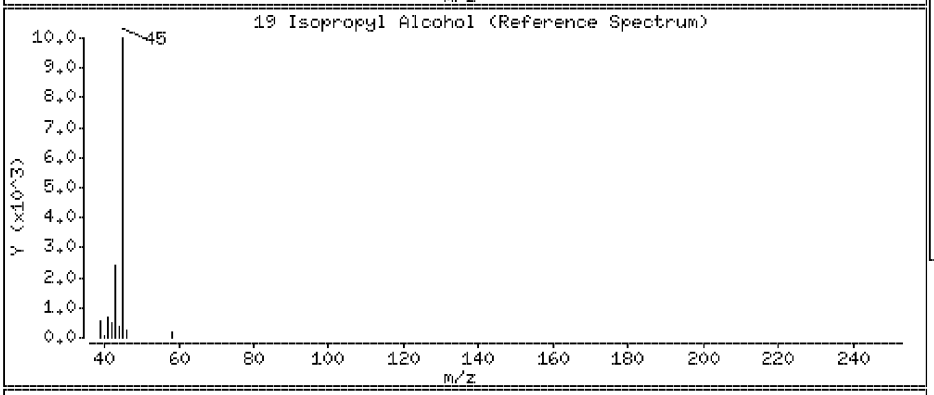
Concentration: 23.9 ppbv

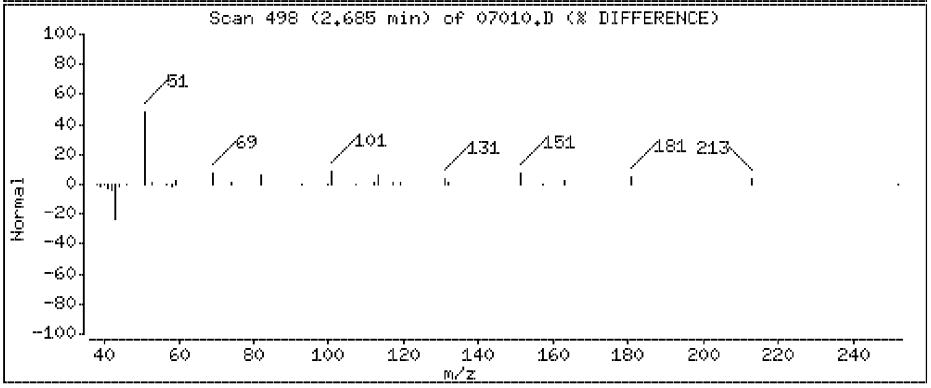












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

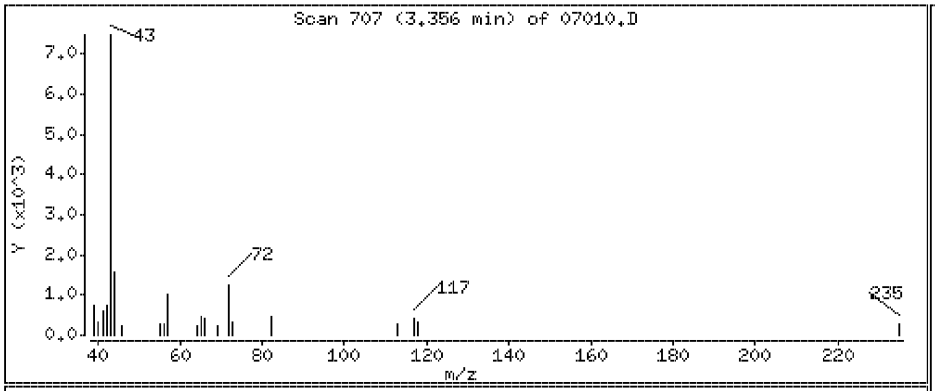
Operator: DR1

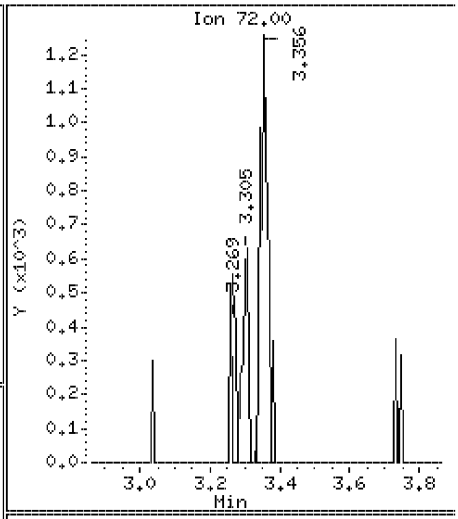
Column phase: J&W DB-5

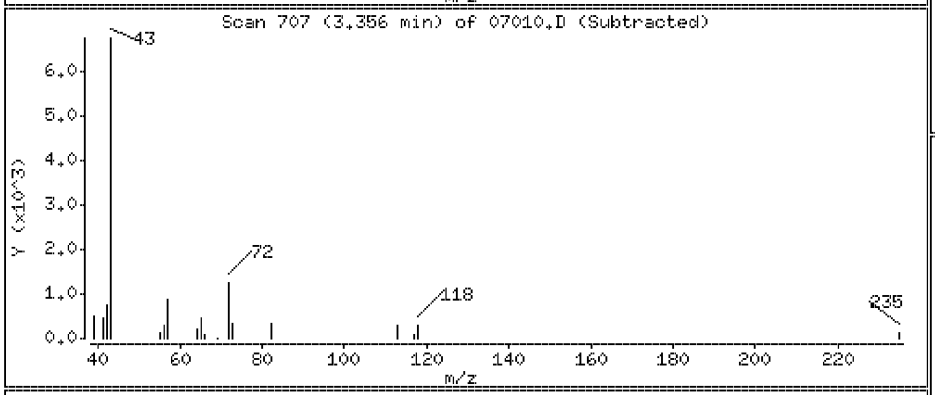
Column diameter: 0.32

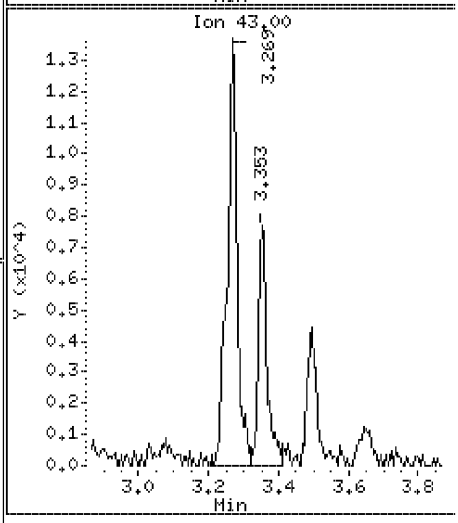
33 Methyl Ethyl Ketone

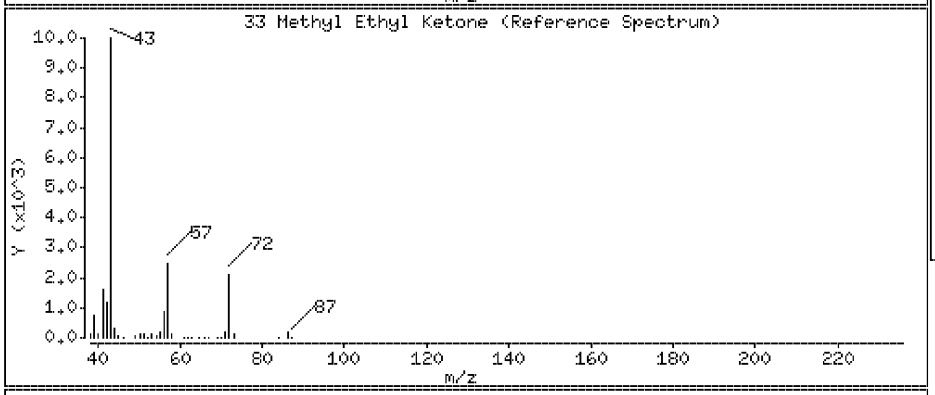
Concentration: 3.27 ppbv

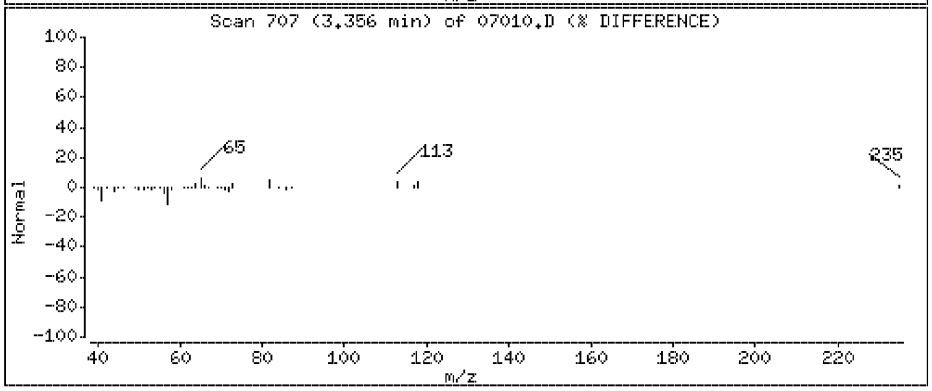












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

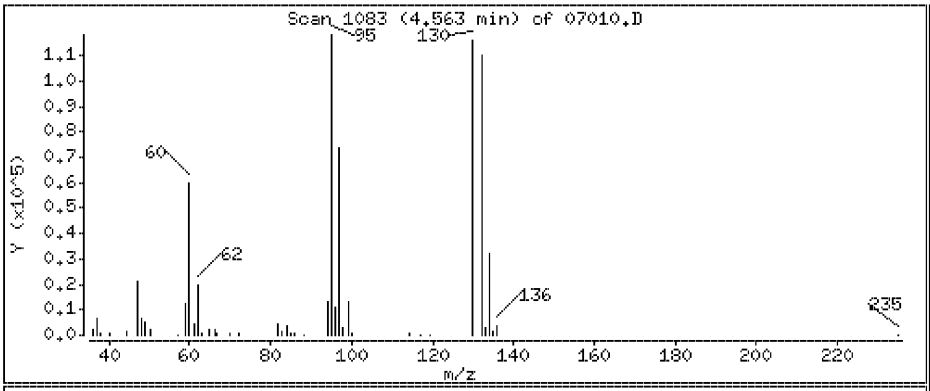
Operator: DR1

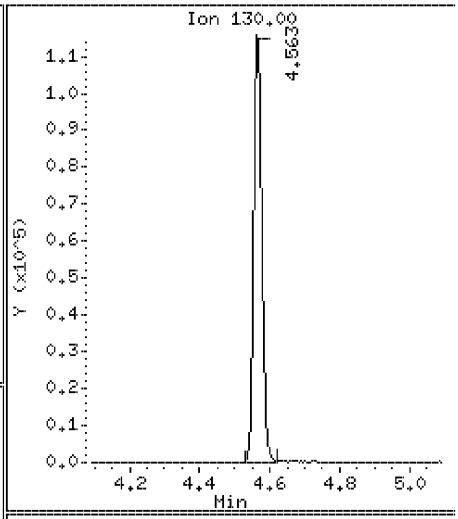
Column phase: J&W DB-5

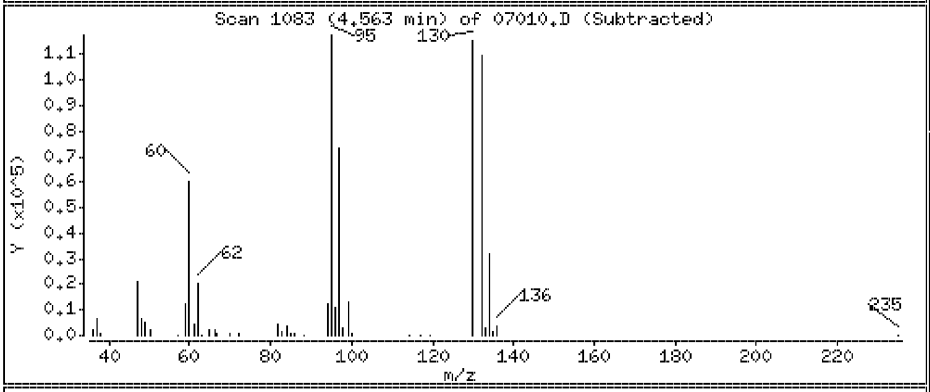
Column diameter: 0.32

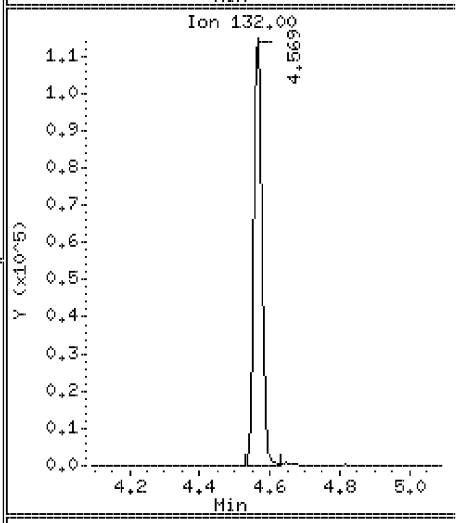
51 Trichloroethene

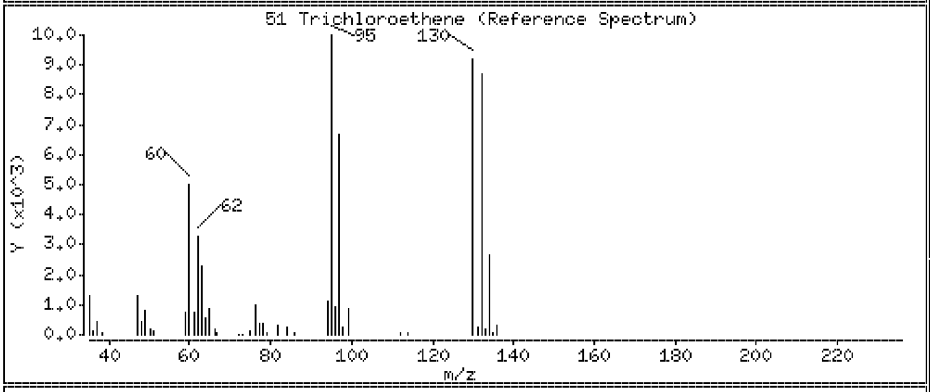
Concentration: 85.5 ppbv

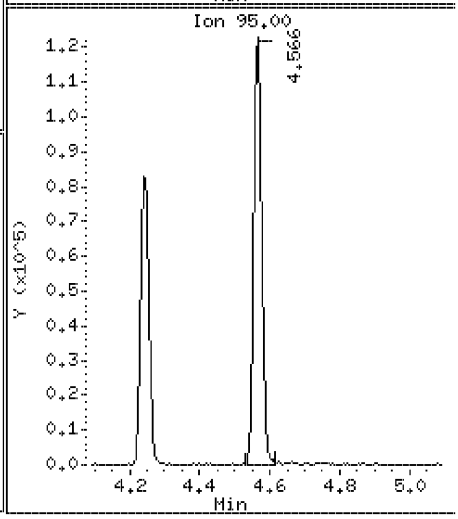


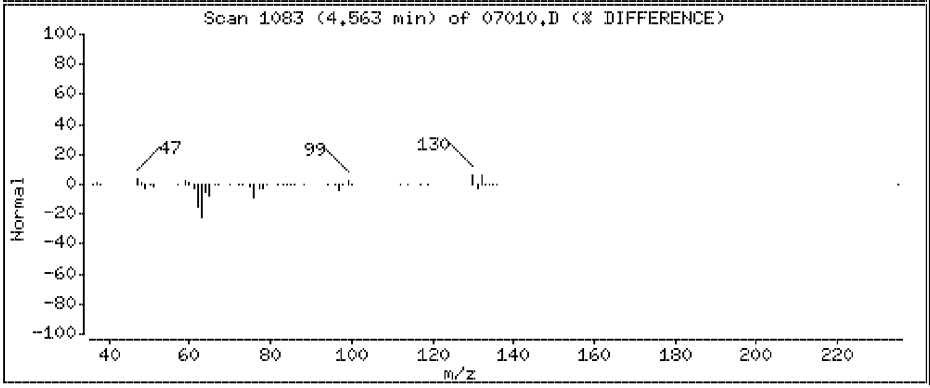












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

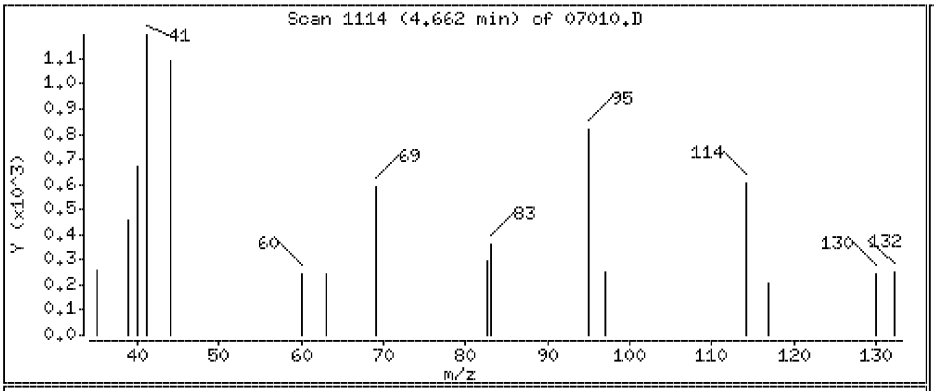
Operator: DR1

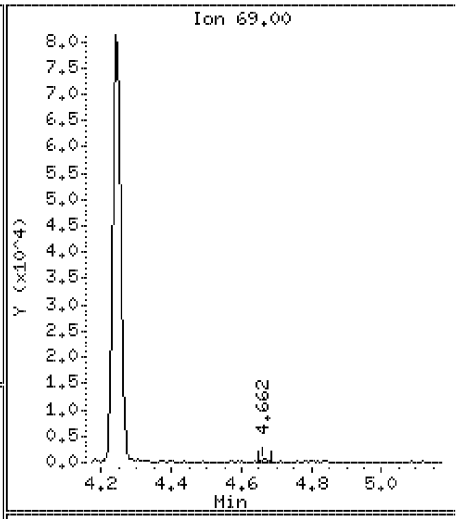
Column phase: J&W DB-5

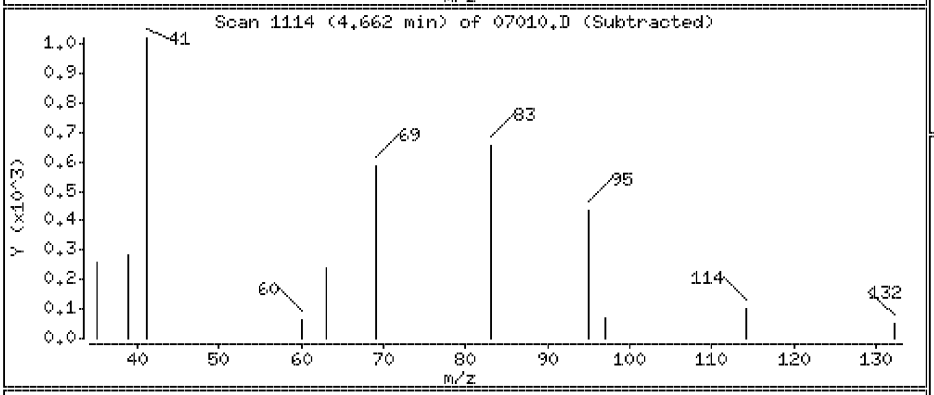
Column diameter: 0.32

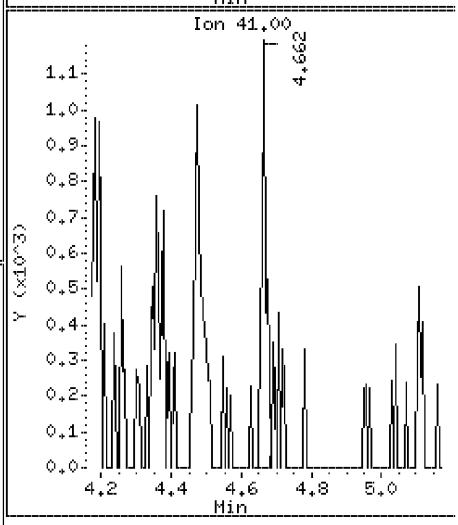
52 Methyl methacrylate

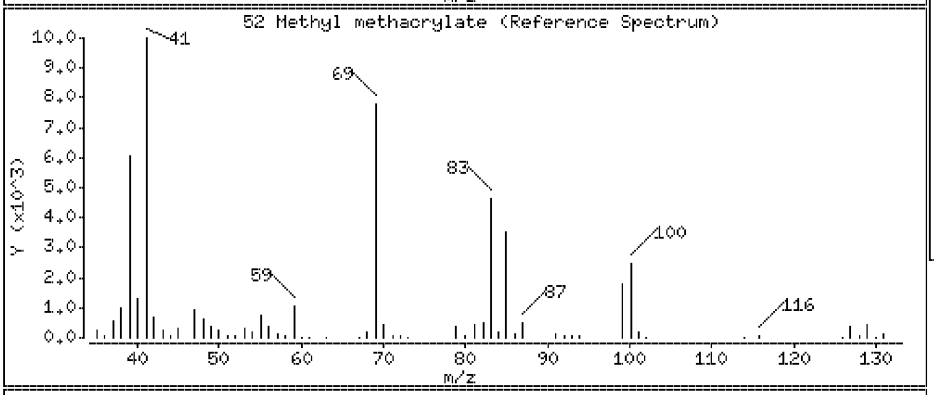
Concentration: 0.426 ppbv

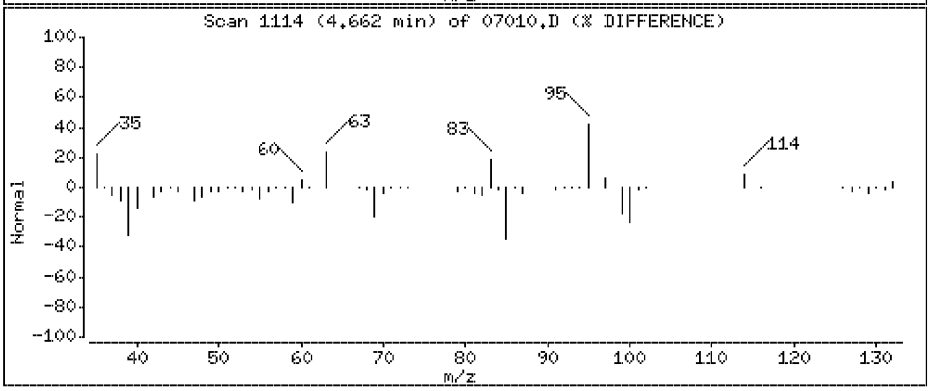












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

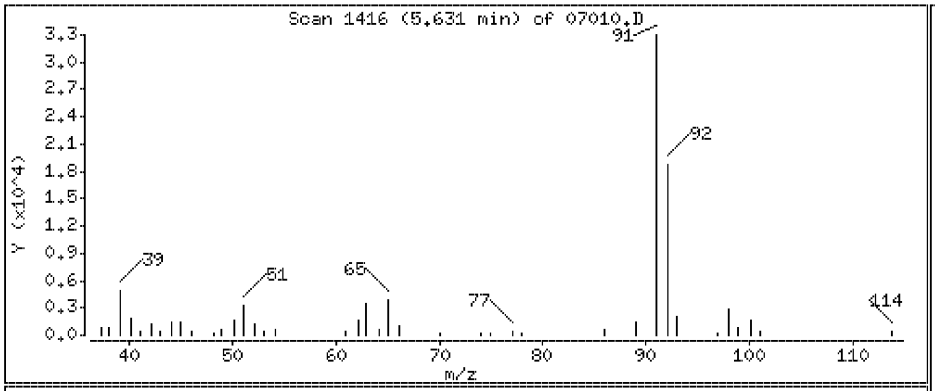
Operator: DR1

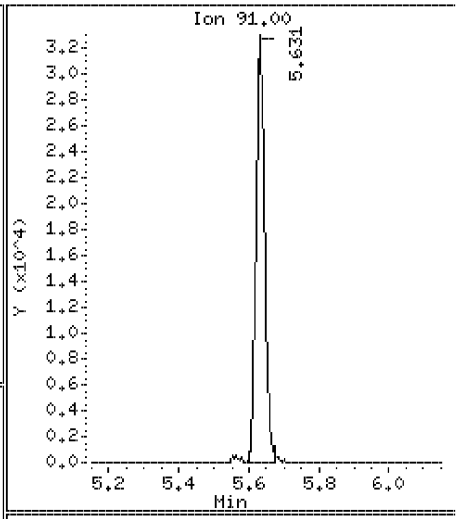
Column phase: J&W DB-5

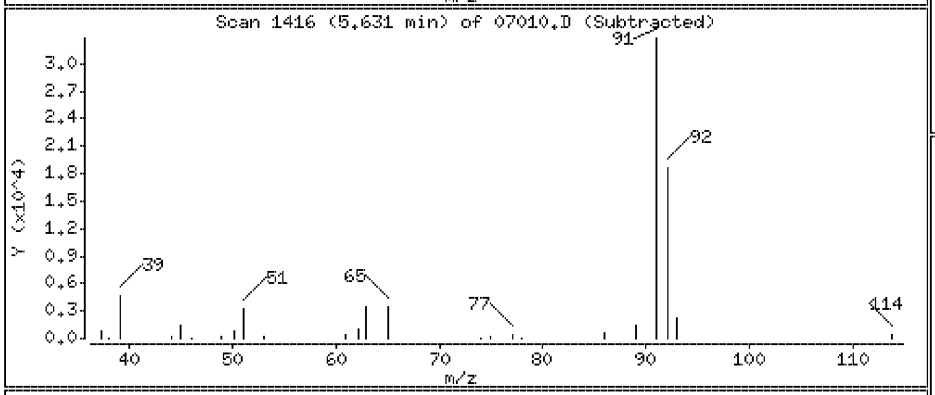
Column diameter: 0.32

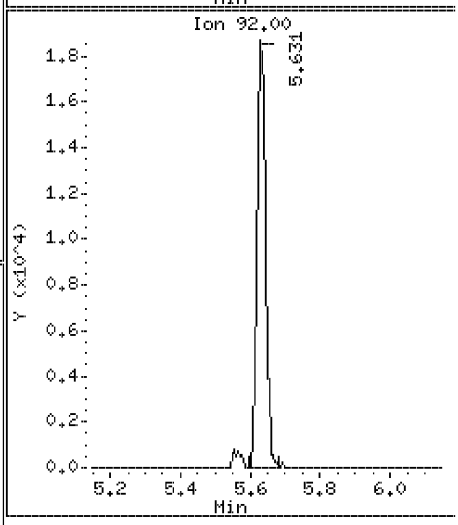
60 Toluene

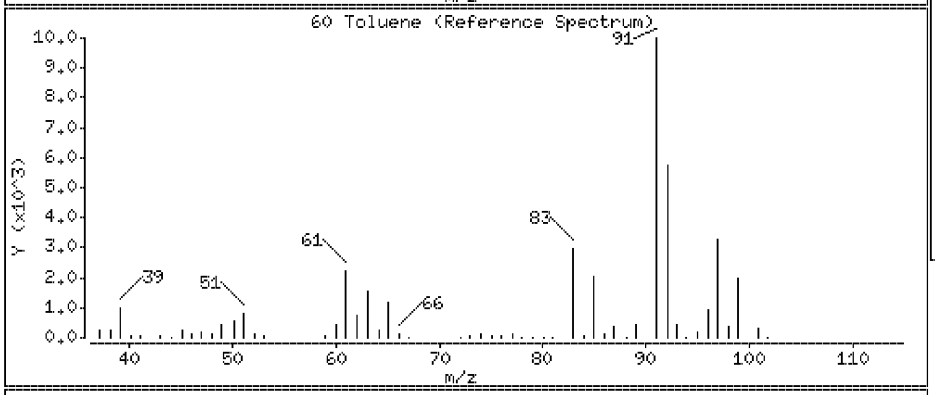
Concentration: 10.5 ppbv

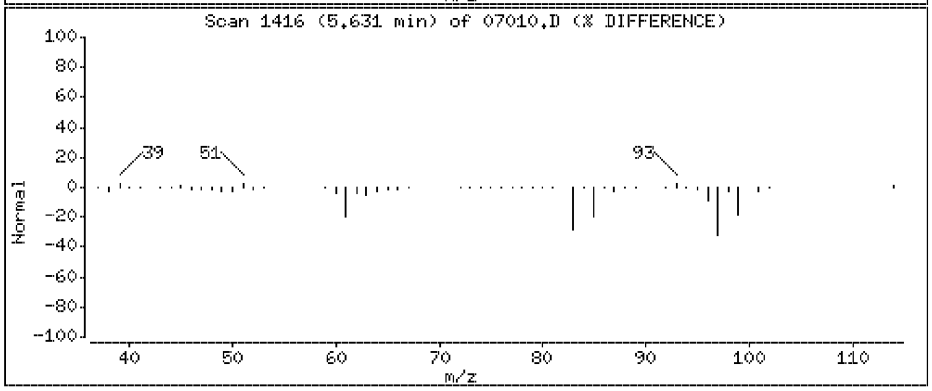












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

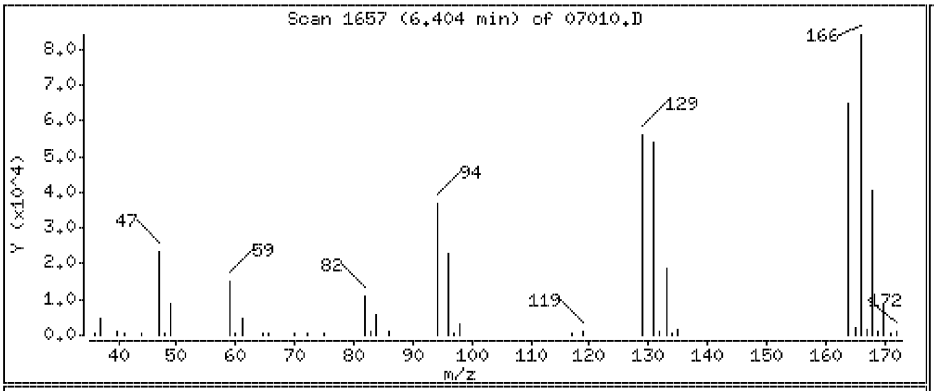
Operator: DR1

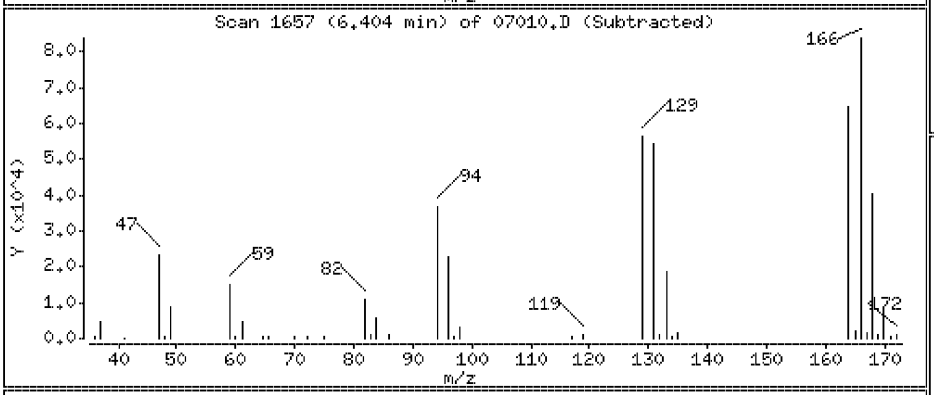
Column phase: J&W DB-5

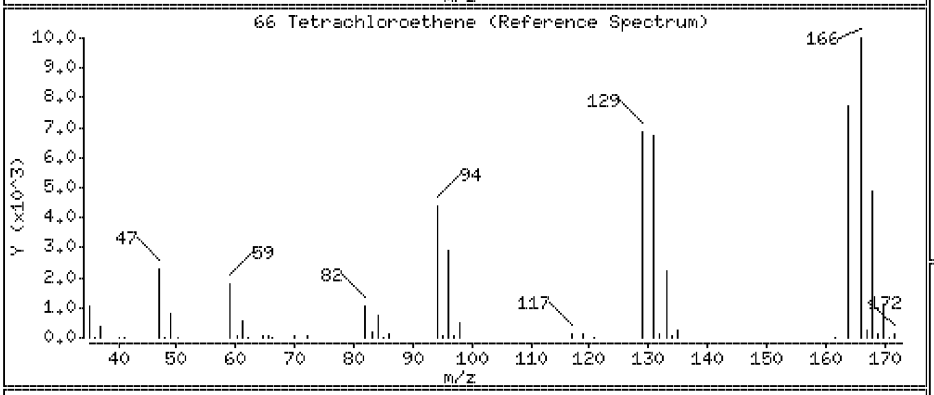
Column diameter: 0.32

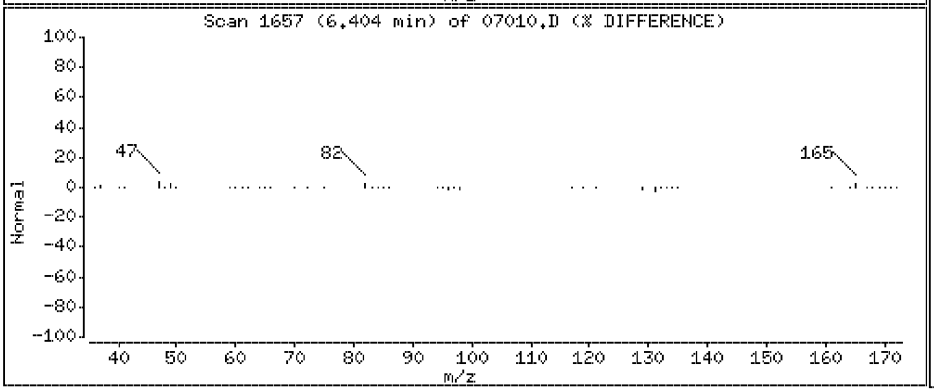
66 Tetrachloroethene

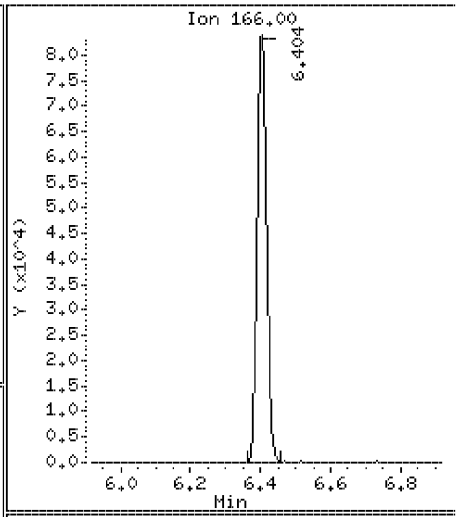
Concentration: 52.5 ppbv

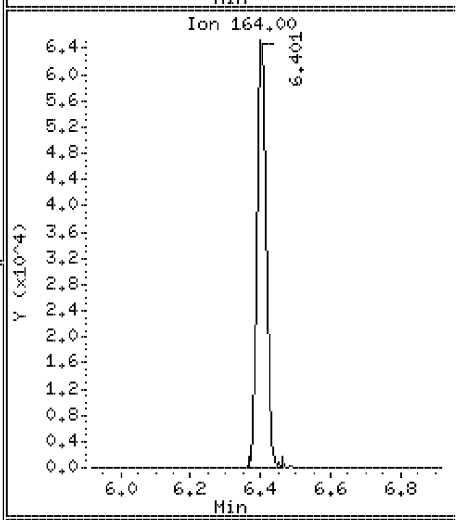


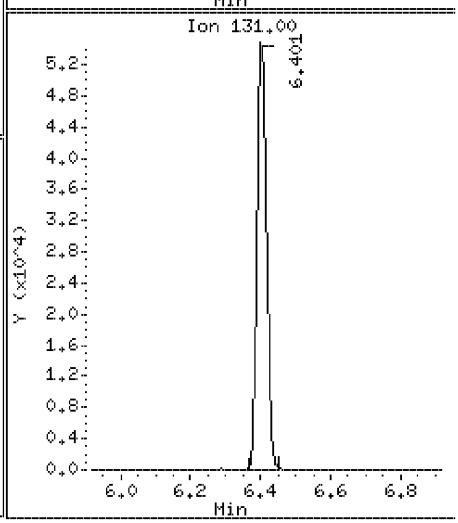












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

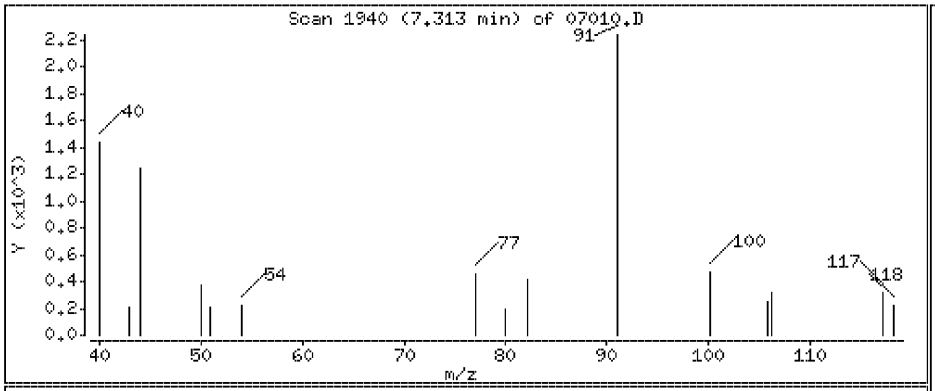
Operator: DR1

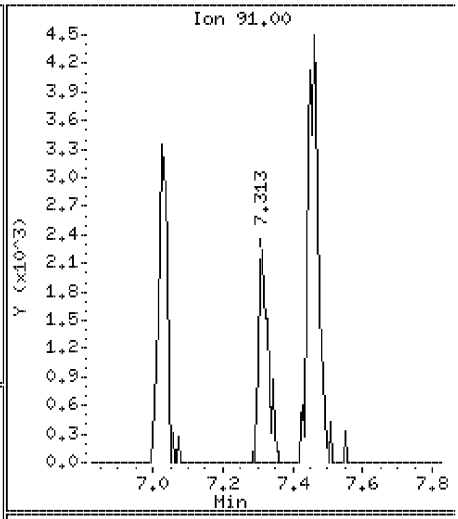
Column phase: J&W DB-5

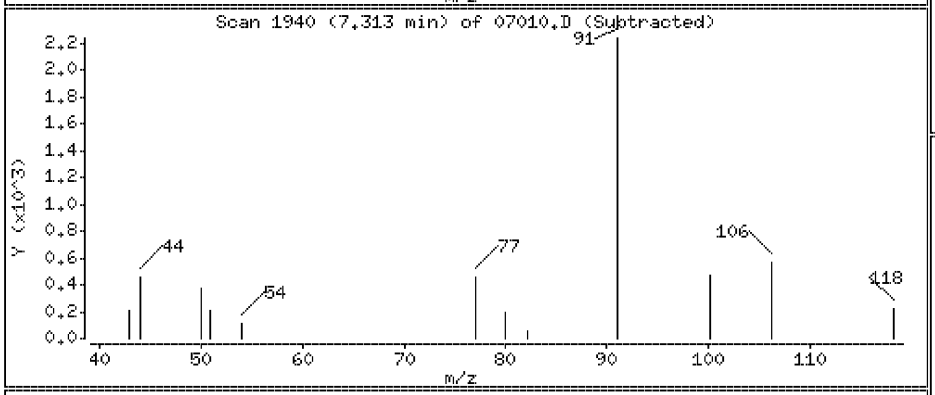
Column diameter: 0.32

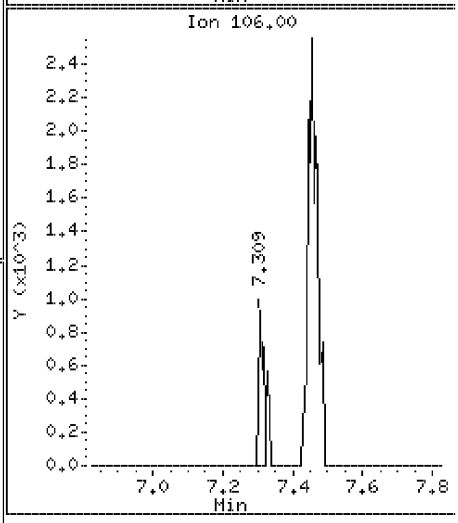
69 Ethyl Benzene

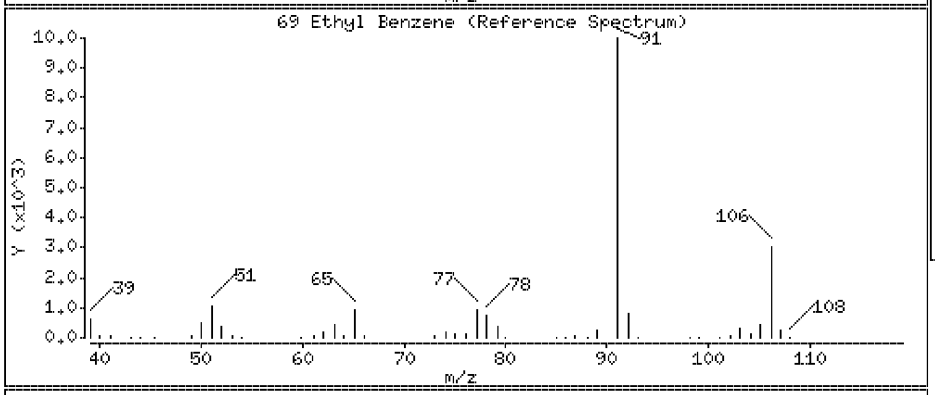
Concentration: 0.675 ppbv

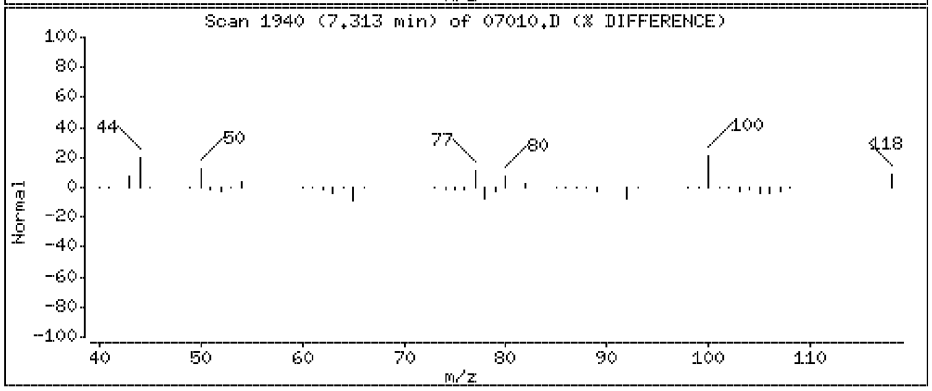












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

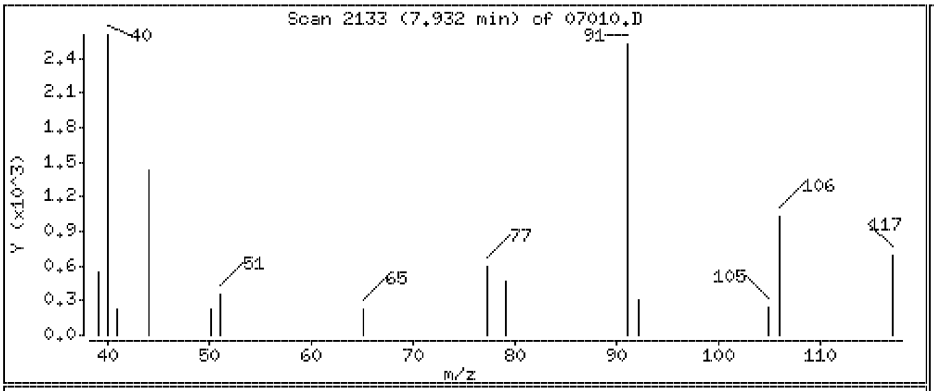
Operator: DR1

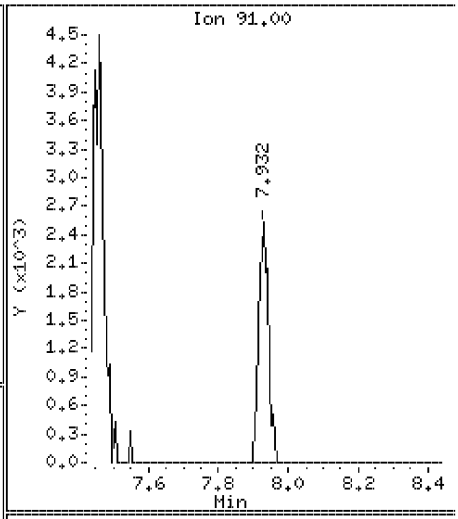
Column phase: J&W DB-5

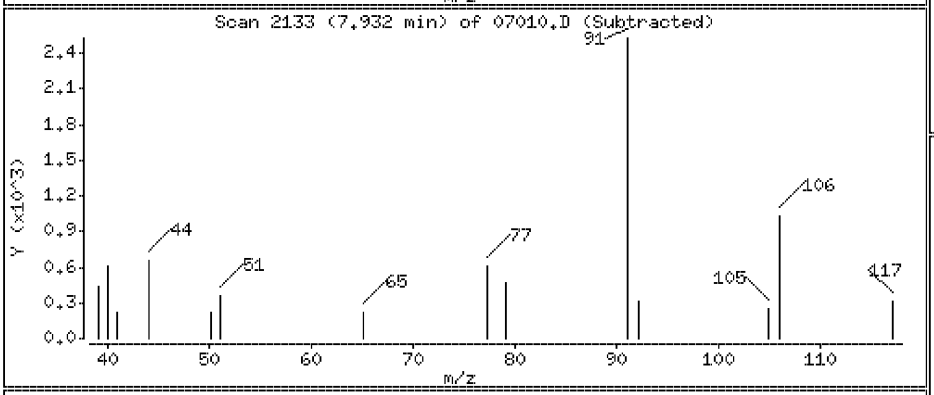
Column diameter: 0.32

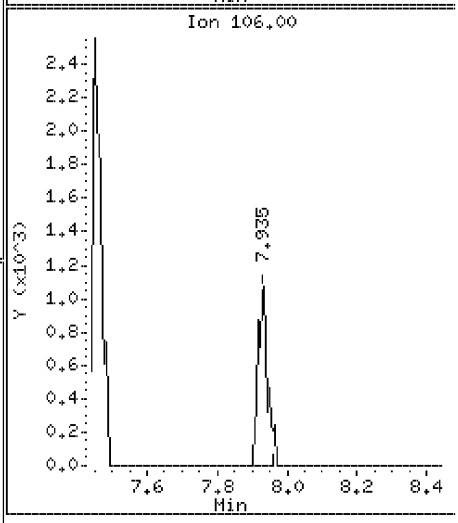
74 o-Xylene

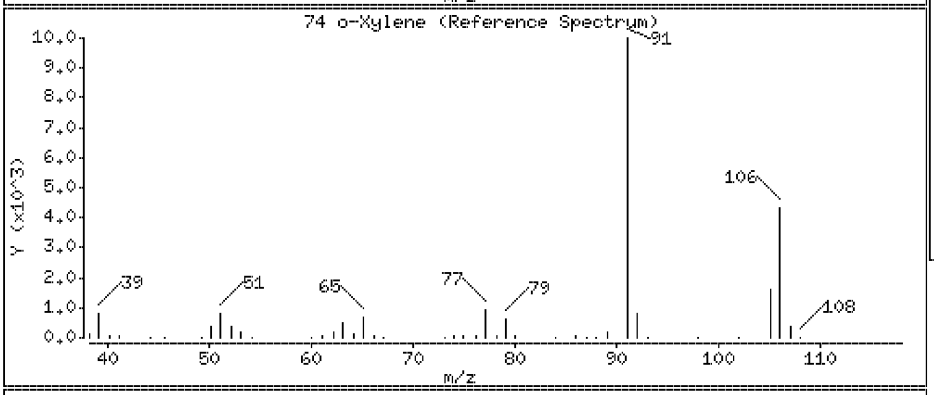
Concentration: 0.961 ppbv

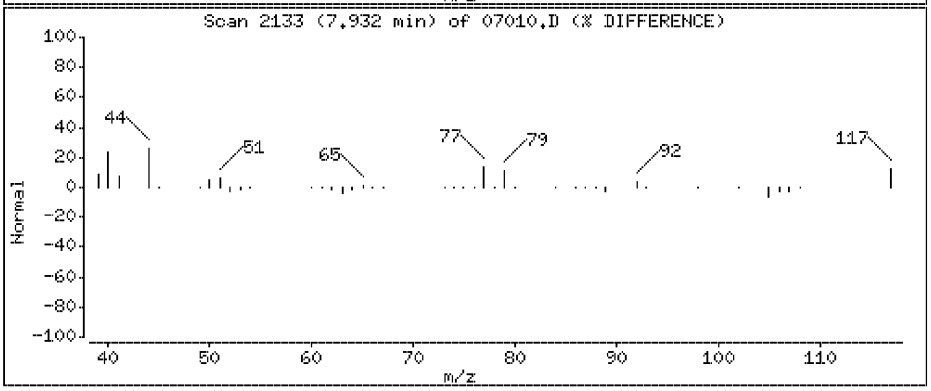












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

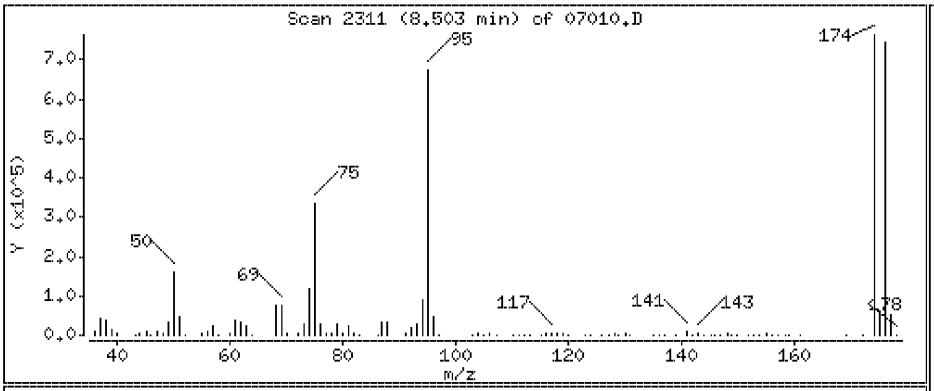
Operator: DR1

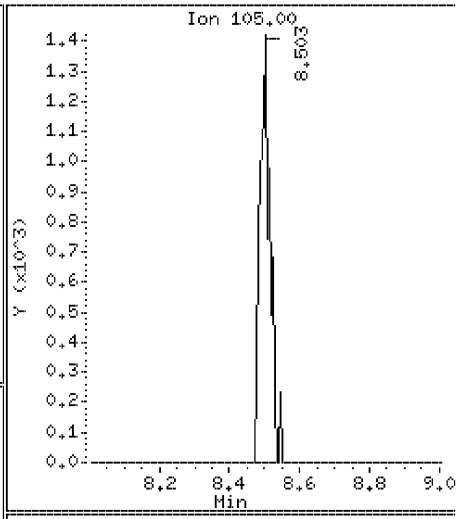
Column phase: J&W DB-5

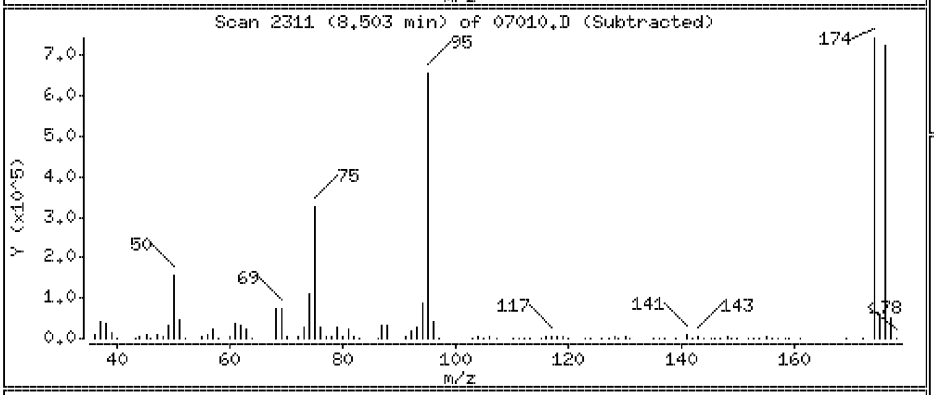
Column diameter: 0.32

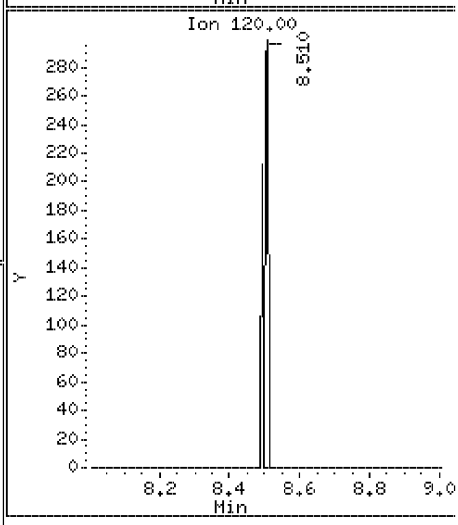
76 Isopropylbenzene

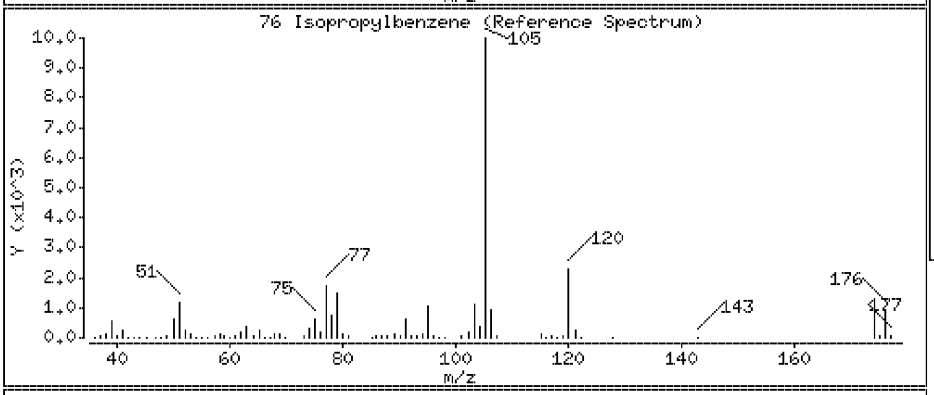
Concentration: 0.456 ppbv

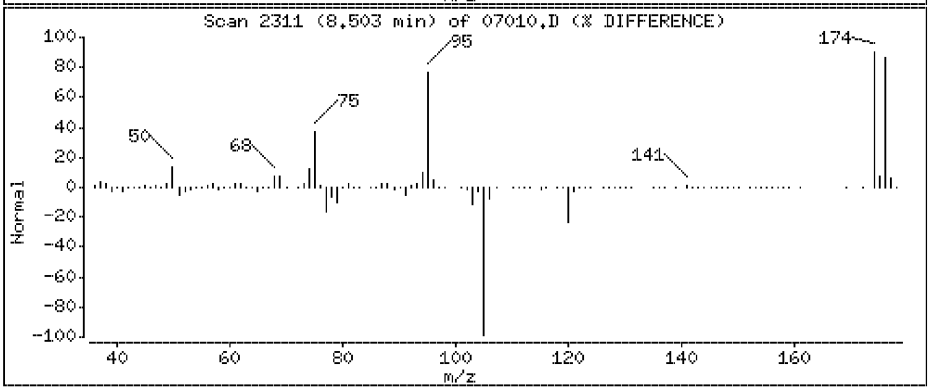












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

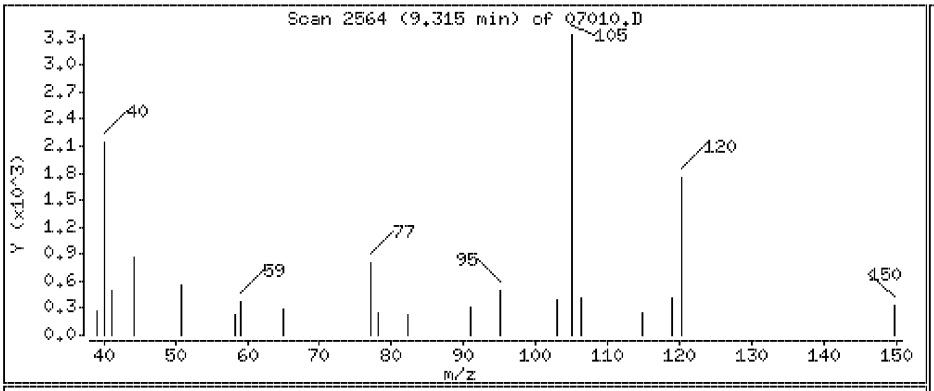
Operator: DR1

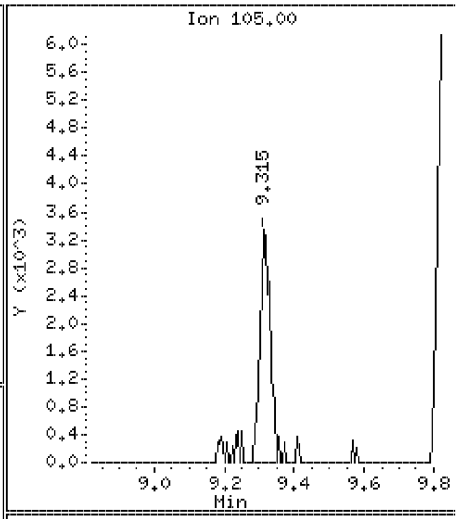
Column phase: J&W DB-5

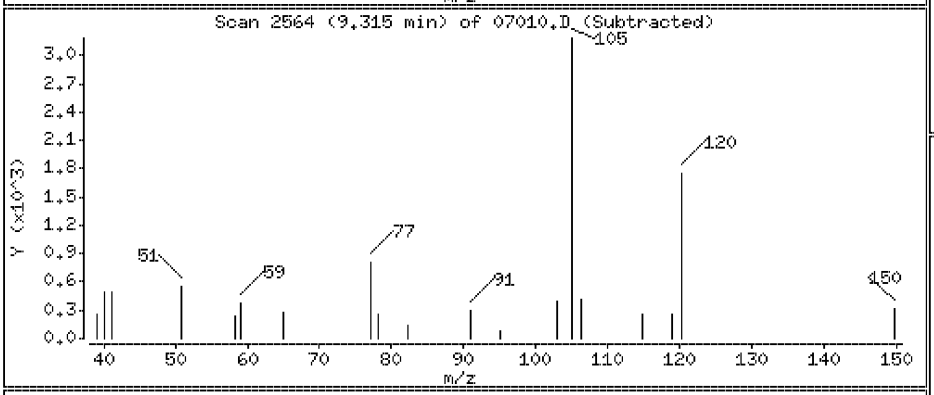
Column diameter: 0.32

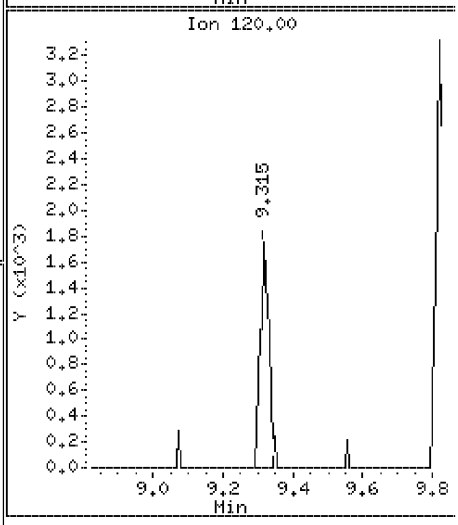
79 1,3,5-Trimethylbenzene

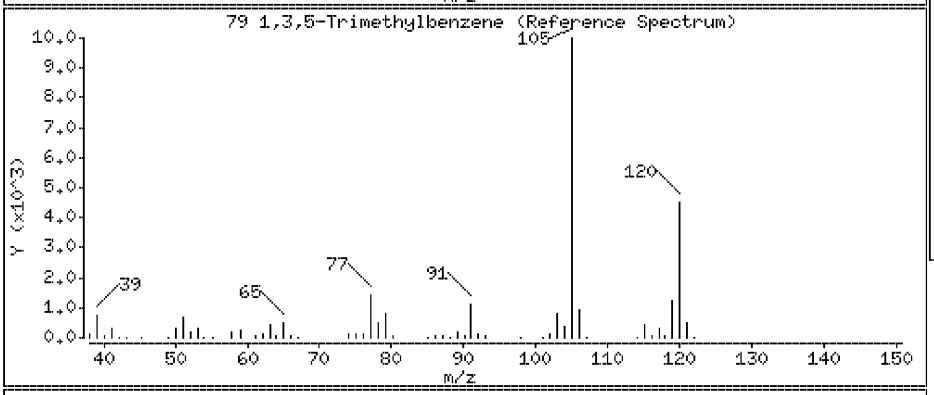
Concentration: 0.660 ppbv

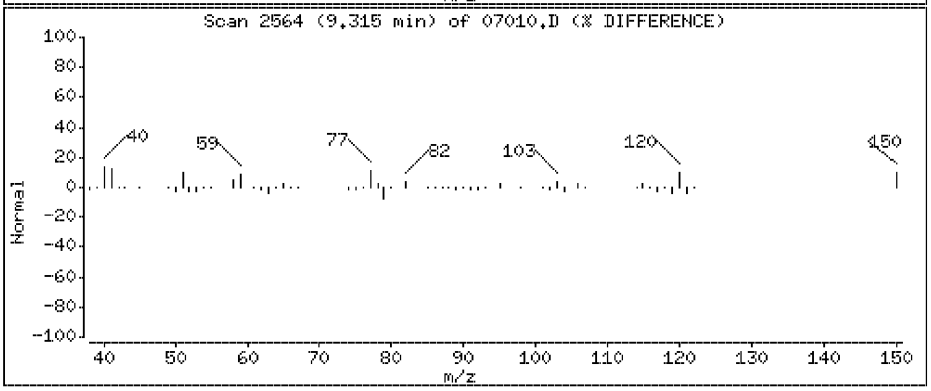












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07010.D

Date : 11-MAR-2017 15:54

Client ID:

Instrument: 10airD.i

Sample Info:

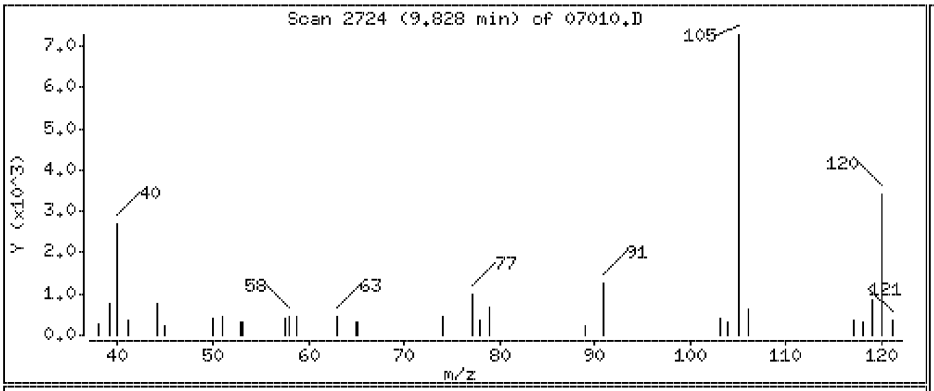
Operator: DR1

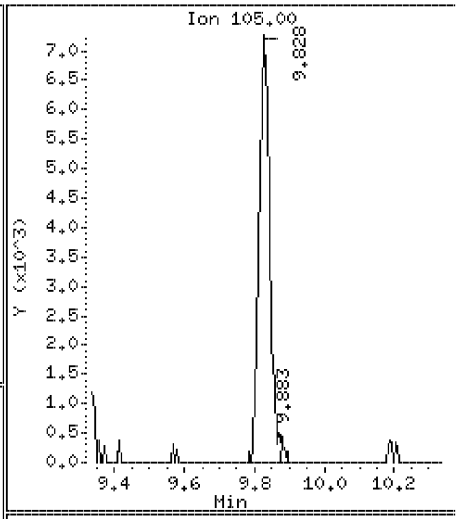
Column phase: J&W DB-5

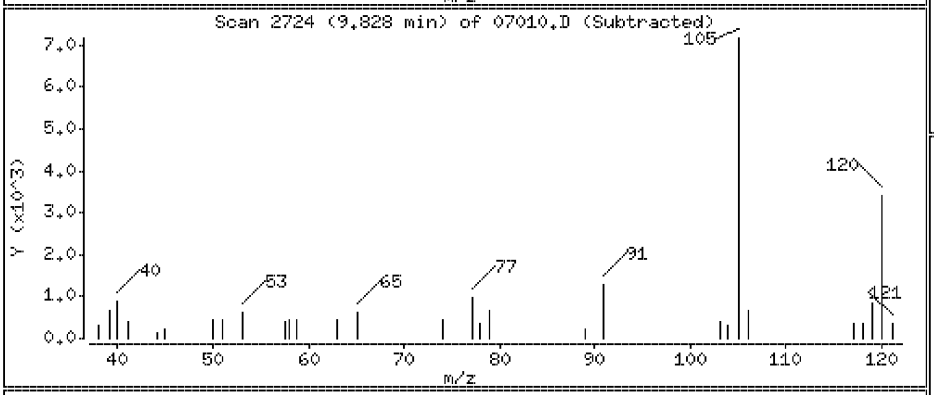
Column diameter: 0.32

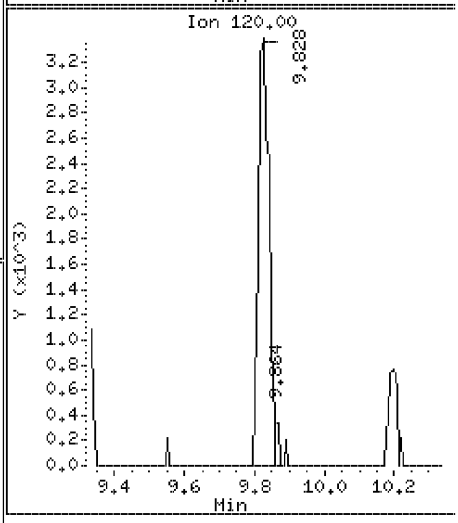
82 1,2,4-Trimethylbenzene

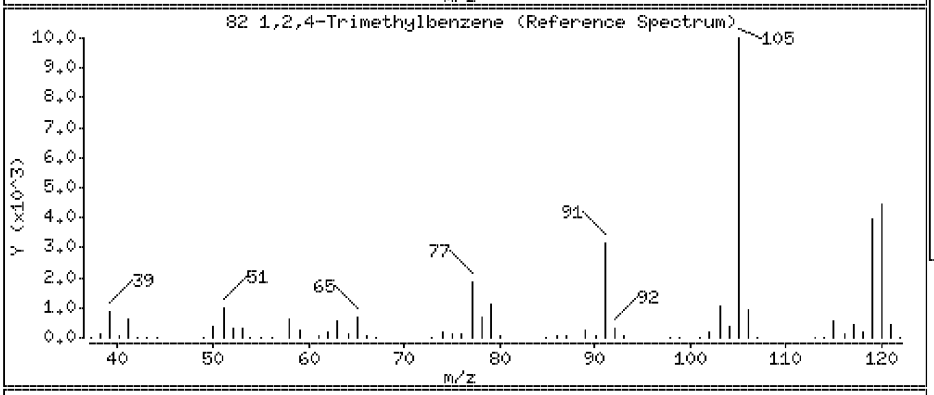
Concentration: 1.33 ppbv

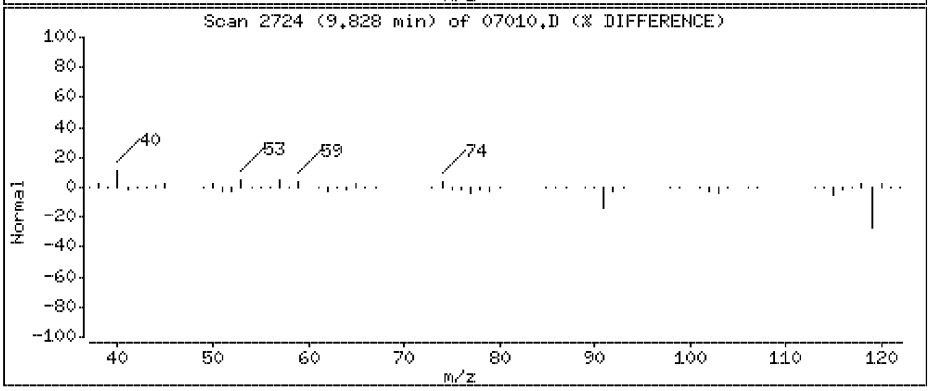






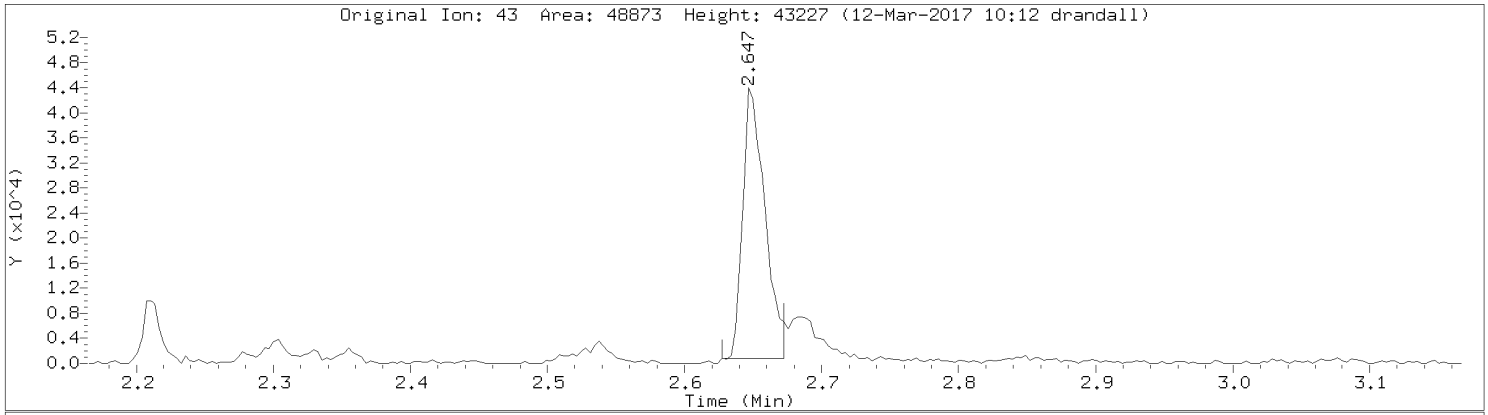


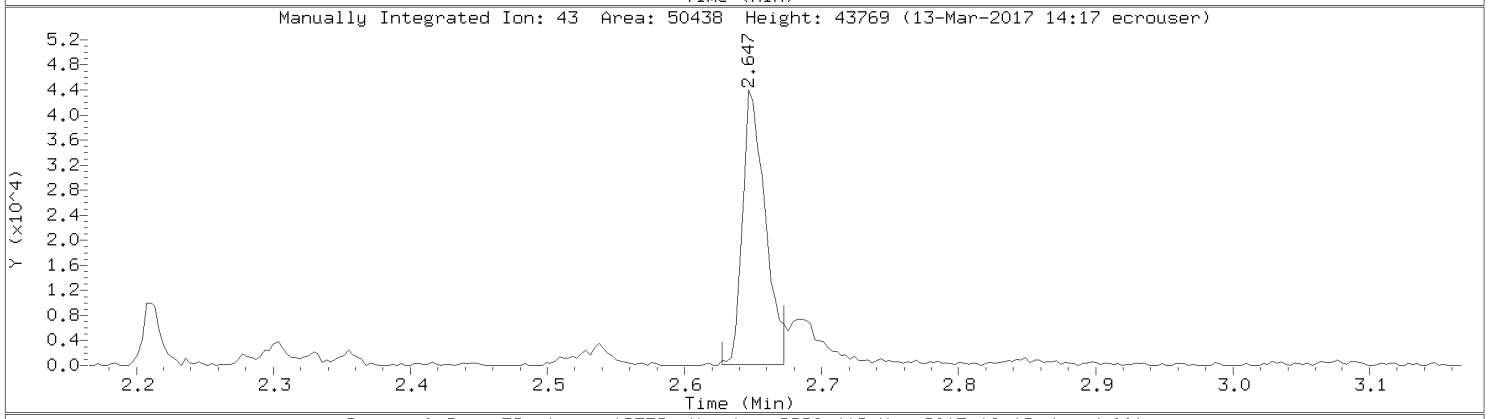


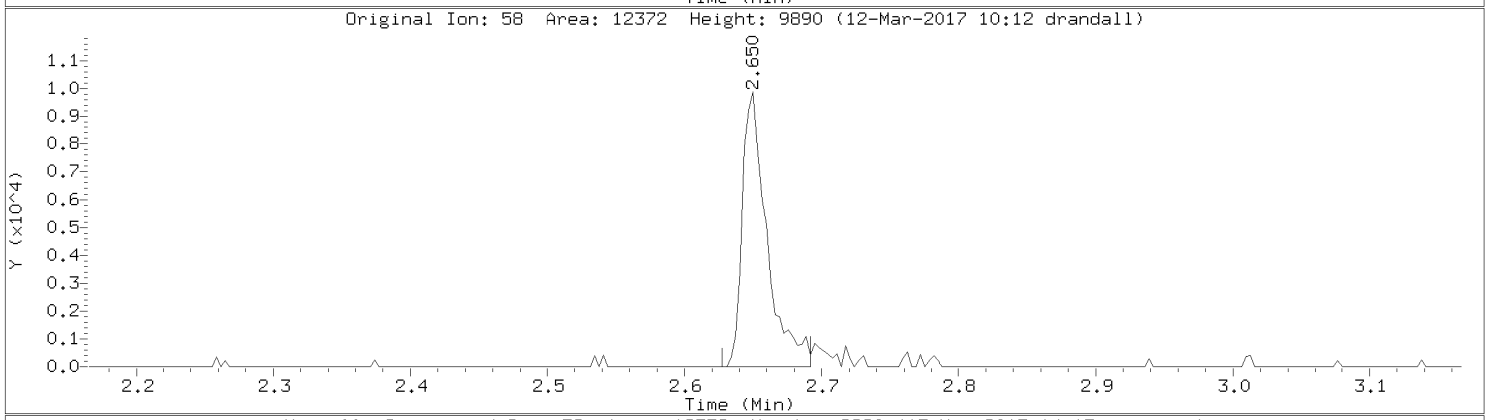


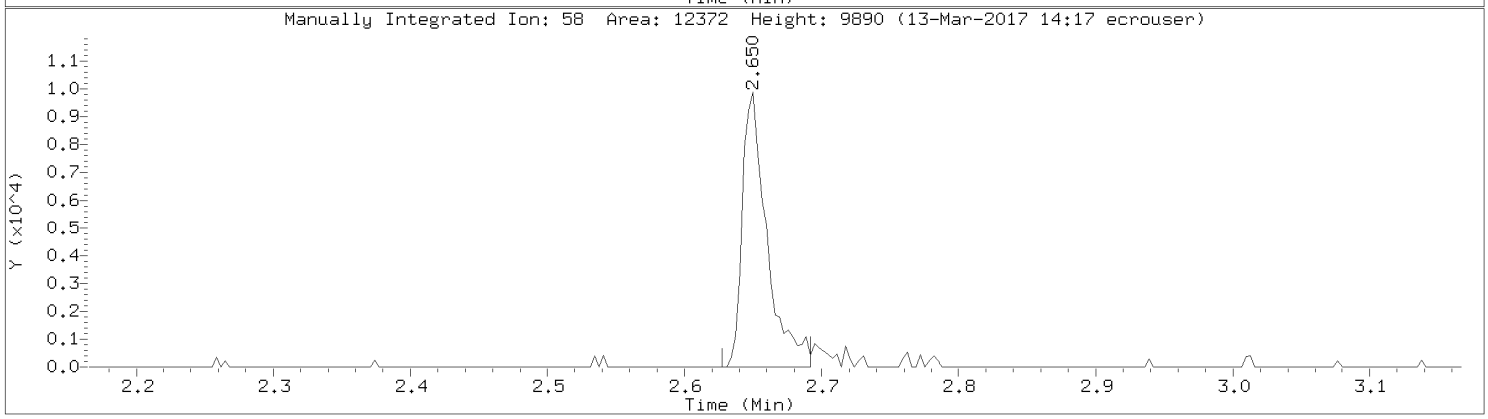
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07010.d
Injection Date: 11-MAR-2017 15:54
Instrument: 10airD.i
Lab Sample ID: 10380372005

Compound: Acetone
CAS Number: 67-64-1









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_61.5_20170226 **Lab ID: 10380372005** Collected: 02/26/17 13:44 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**64.2**	ug/m3	4.6	0.44	1.83		03/10/17 19:44	67-63-0	L1
Styrene	**0.72J**	ug/m3	1.6	0.35	1.83		03/10/17 19:44	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/10/17 19:44	79-34-5	
Tetrachloroethene	**368**	ug/m3	1.3	0.51	1.83		03/10/17 19:44	127-18-4	
Toluene	**42.9**	ug/m3	1.4	0.28	1.83		03/10/17 19:44	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/10/17 19:44	120-82-1	
1,1,1-Trichloroethane	**1.3J**	ug/m3	2.0	0.45	1.83		03/10/17 19:44	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/10/17 19:44	79-00-5	
Trichloroethene	**461**	ug/m3	1.0	0.51	1.83		03/10/17 19:44	79-01-6	
Trichloroethene	**467**	ug/m3	10.1	5.1	18.3		03/11/17 15:54	79-01-6	
Trichlorofluoromethane	**3.1**	ug/m3	2.1	0.24	1.83		03/10/17 19:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	**12.2**	ug/m3	2.9	0.55	1.83		03/10/17 19:44	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.8	0.23	1.83		03/10/17 19:44	95-63-6	
1,3,5-Trimethylbenzene	**0.33U**	ug/m3	1.8	0.33	1.83		03/10/17 19:44	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/10/17 19:44	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.2	1.4	1.83		03/10/17 19:44	179601-23-1	
o-Xylene	**1.2J**	ug/m3	1.6	0.64	1.83		03/10/17 19:44	95-47-6	

Sample: VP-102_73.5_20170226 **Lab ID: 10380372006** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**22.0**	ug/m3	10.6	1.5	1.75		03/10/17 20:12	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/10/17 20:12	107-05-1	
Benzene	**0.50J**	ug/m3	0.57	0.21	1.75		03/10/17 20:12	71-43-2	
Bromodichloromethane	**0.34U**	ug/m3	2.4	0.34	1.75		03/10/17 20:12	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/10/17 20:12	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/10/17 20:12	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/10/17 20:12	106-99-0	
2-Butanone (MEK)	**2.5J**	ug/m3	5.2	0.40	1.75		03/10/17 20:12	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/10/17 20:12	75-15-0	
Carbon tetrachloride	**0.34U**	ug/m3	1.1	0.34	1.75		03/10/17 20:12	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/10/17 20:12	108-90-7	
Chlorodifluoromethane	**21.9**	ug/m3	1.3	0.48	1.75		03/10/17 20:12	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/10/17 20:12	75-00-3	
Chloroform	**0.33U**	ug/m3	0.87	0.33	1.75		03/10/17 20:12	67-66-3	
Chloromethane	**0.94**	ug/m3	0.74	0.19	1.75		03/10/17 20:12	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 20:12	76-15-3	
Cyclohexane	**0.55U**	ug/m3	1.2	0.55	1.75		03/10/17 20:12	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/10/17 20:12	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/10/17 20:12	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/10/17 20:12	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/10/17 20:12	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_73.5_20170226 **Lab ID: 10380372006** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/10/17 20:12	541-73-1	
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/10/17 20:12	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	0.84	1.75		03/10/17 20:12	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/10/17 20:12	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/10/17 20:12	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 20:12	75-35-4	
cis-1,2-Dichloroethene	**0.43U**	ug/m3	1.4	0.43	1.75		03/10/17 20:12	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/10/17 20:12	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/10/17 20:12	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/10/17 20:12	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/10/17 20:12	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/10/17 20:12	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 20:12	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/10/17 20:12	123-91-1	
Ethylbenzene	**2.0**	ug/m3	1.5	0.74	1.75		03/10/17 20:12	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/10/17 20:12	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/10/17 20:12	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.62	1.75		03/10/17 20:12	110-54-3	
2-Hexanone	**0.93J**	ug/m3	7.3	0.72	1.75		03/10/17 20:12	591-78-6	
Isopropylbenzene (Cumene)	**0.26J**	ug/m3	4.4	0.24	1.75		03/10/17 20:12	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/10/17 20:12	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 20:12	108-87-2	
Methylene Chloride	**4.4J**	ug/m3	6.2	0.95	1.75		03/10/17 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/10/17 20:12	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/10/17 20:12	1634-04-4	
2-Propanol	**29.5**	ug/m3	4.4	0.42	1.75		03/10/17 20:12	67-63-0	L1
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/10/17 20:12	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/10/17 20:12	79-34-5	
Tetrachloroethene	**0.56J**	ug/m3	1.2	0.49	1.75		03/10/17 20:12	127-18-4	
Toluene	**1.7**	ug/m3	1.3	0.27	1.75		03/10/17 20:12	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/10/17 20:12	120-82-1	
1,1,1-Trichloroethane	**0.43U**	ug/m3	1.9	0.43	1.75		03/10/17 20:12	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/10/17 20:12	79-00-5	
Trichloroethene	**0.48U**	ug/m3	0.96	0.48	1.75		03/10/17 20:12	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.0	0.23	1.75		03/10/17 20:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.53U**	ug/m3	2.8	0.53	1.75		03/10/17 20:12	76-13-1	
1,2,4-Trimethylbenzene	**0.95J**	ug/m3	1.7	0.22	1.75		03/10/17 20:12	95-63-6	
1,3,5-Trimethylbenzene	**0.41J**	ug/m3	1.7	0.32	1.75		03/10/17 20:12	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/10/17 20:12	75-01-4	
m&p-Xylene	**6.5**	ug/m3	3.1	1.4	1.75		03/10/17 20:12	179601-23-1	
o-Xylene	**2.1**	ug/m3	1.5	0.61	1.75		03/10/17 20:12	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.d
Report Date: 13-Mar-2017 15:53

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06912.d
Lab Smp Id: 10380372006
Inj Date : 10-MAR-2017 20:12
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 12
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.123	2.123	(0.501)	27807	3.48324	6.10(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.149	(0.507)	25089	0.34511	0.604	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						
7	Chloromethane	50	2.220	2.216	(0.524)	8690	0.25488	0.446	
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.492	2.499	(0.588)	39455	7.77179	13.6	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	2.537	2.544	(0.599)	27468	0.86705	1.52	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.598	2.605	(0.613)	11028	0.14500	0.254	
17	Acrolein	56	2.602	2.608	(0.614)	3489	0.81302	1.42	
18	Acetone	43	2.630	2.637	(0.621)	237743	5.21256	9.12	
19	Isopropyl Alcohol	45	2.662	2.672	(0.628)	173499	6.73551	11.8(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	2.820	2.829	(0.665)	5295	0.15109	0.264	
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.d
Report Date: 13-Mar-2017 15:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	2.826	2.832	(0.667)	17128	0.27200	0.476(Q)	
	25 Methylene chloride	49	2.861	2.871	(0.675)	35474	0.71850	1.26	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.263	3.269	(0.770)	1669691	9.51134	9.51	
	33 Methyl Ethyl Ketone	72	3.340	3.336	(0.788)	4962	0.47197	0.826(Q)	
	34 n-Hexane	57	3.343	3.349	(0.789)	6396	0.16826	0.294(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	3.478	3.477	(0.821)	8551	0.14060	0.246(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.097	4.106	(0.967)	6423	0.08827	0.154	
	45 Carbon tetrachloride	117	Compound Not Detected.						(D)
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.238	4.247	(1.000)	3306698	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	4.453	4.491	(1.051)	17111	0.30122	0.527(Q)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						(D)
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.557	5.566	(1.311)	3185738	9.61478	9.61	
	60 Toluene	91	5.631	5.634	(1.329)	25518	0.26105	0.457	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	5.894	5.881	(0.839)	7663	0.12705	0.222(Q)	
	63 n-Octane	43	6.054	6.054	(0.862)	33599	0.53573	0.938(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.401	6.407	(0.911)	2601	0.04655	0.0815(a)	
*	67 Chlorobenzene - d5	117	7.027	7.033	(1.000)	2527299	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.312	7.318	(1.041)	29058	0.26204	0.459	
	70 m&p-Xylene	91	7.450	7.460	(1.060)	84899	0.84671	1.48	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.893	7.861	(1.123)	27587	0.47673	0.834(Q)	
	73 Styrene	104	7.877	7.867	(1.121)	1345	0.02391	0.0418(aQ)	
	74 o-Xylene	91	7.925	7.931	(1.128)	24657	0.26971	0.472	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	8.499	8.499	(1.210)	3304	0.02919	0.0511(a)	
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.d
Report Date: 13-Mar-2017 15:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	9.321	9.321	(1.327)	7713	0.04733	0.0828(a)	
80	n-Decane	57	9.709	9.725	(2.291)	7822	0.14555	0.255(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.822	9.828	(1.398)	19154	0.10915	0.191	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.191	10.197	(1.450)	1472095	9.50693	9.51	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.960	12.953	(1.844)	16724	0.63149	1.11(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.d
Report Date: 13-Mar-2017 15:53

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06912.d
Lab Smp Id: 10380372006
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 10-MAR-2017
Calibration Time: 14:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

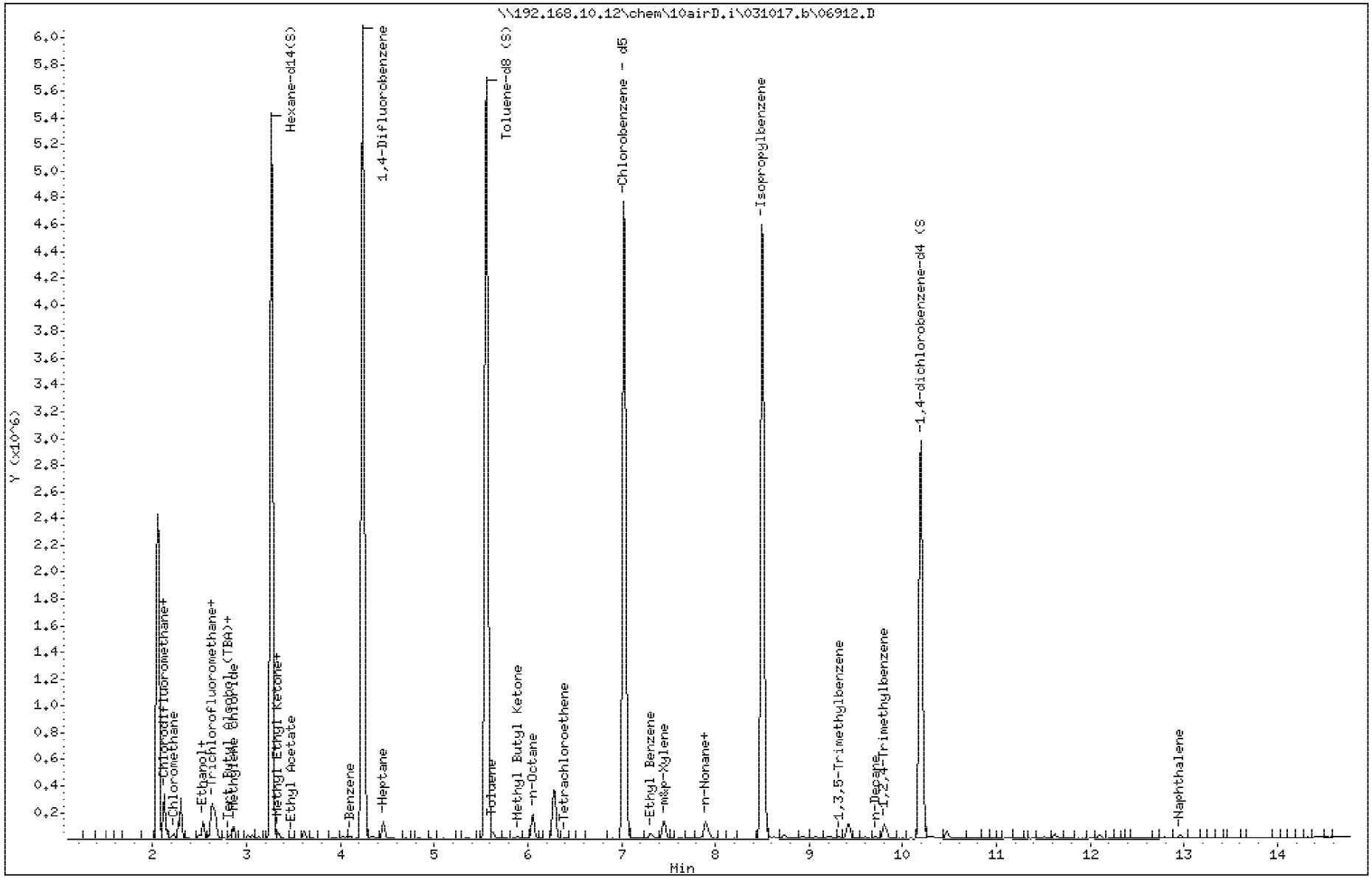
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3306698	-12.70
67 Chlorobenzene - d	3280875	1968525	4593225	2527299	-22.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.22
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D
Date : 10-MAR-2017 20:12
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

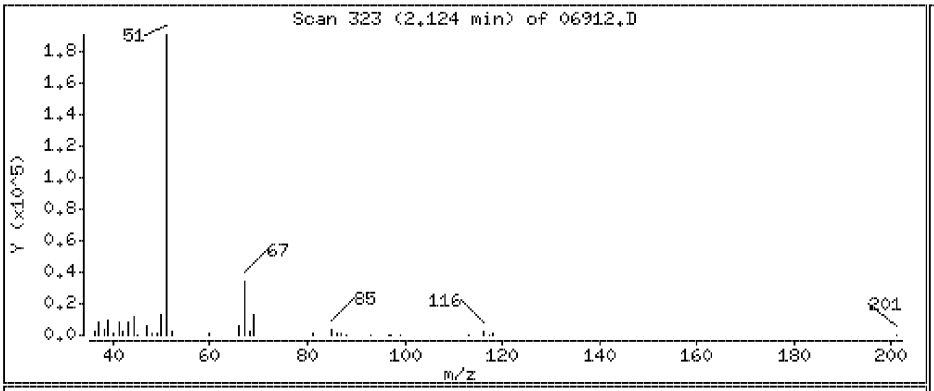
Operator: DR1

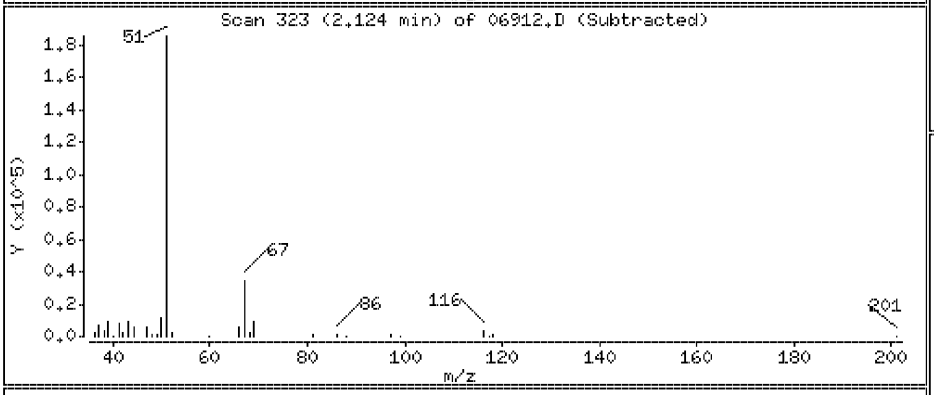
Column phase: J&W DB-5

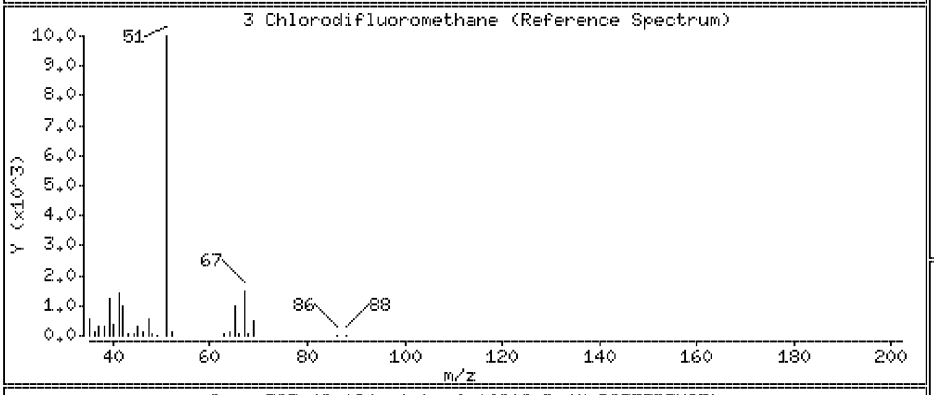
Column diameter: 0.32

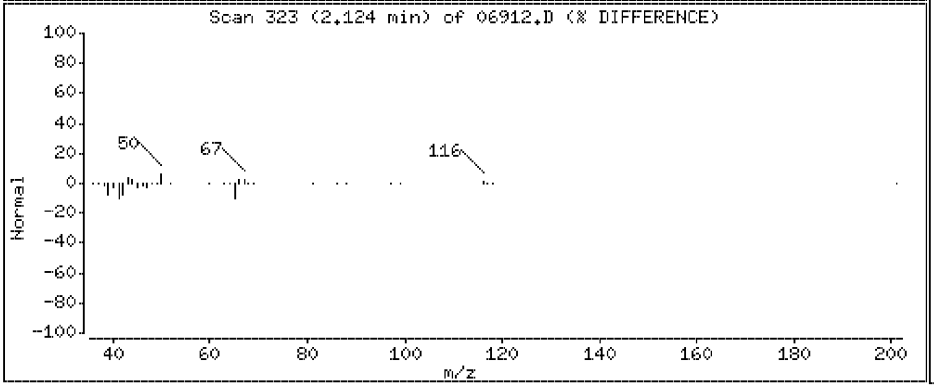
3 Chlorodifluoromethane

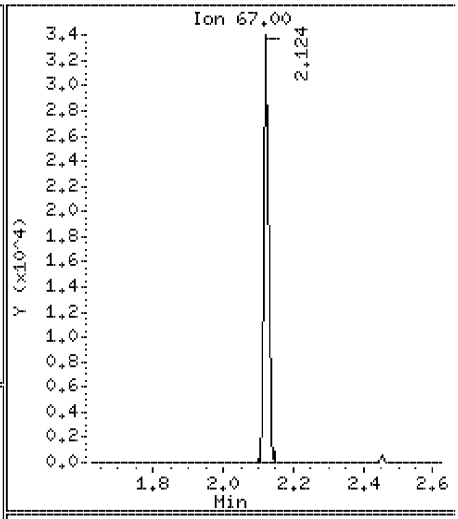
Concentration: 6.10 ppbv

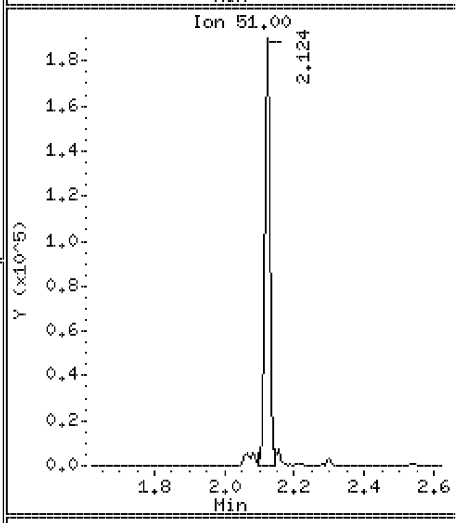


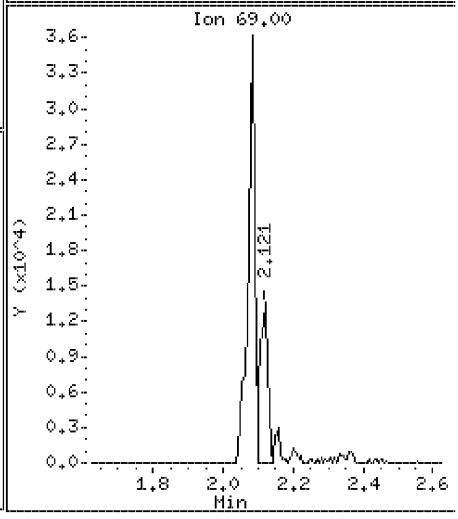












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

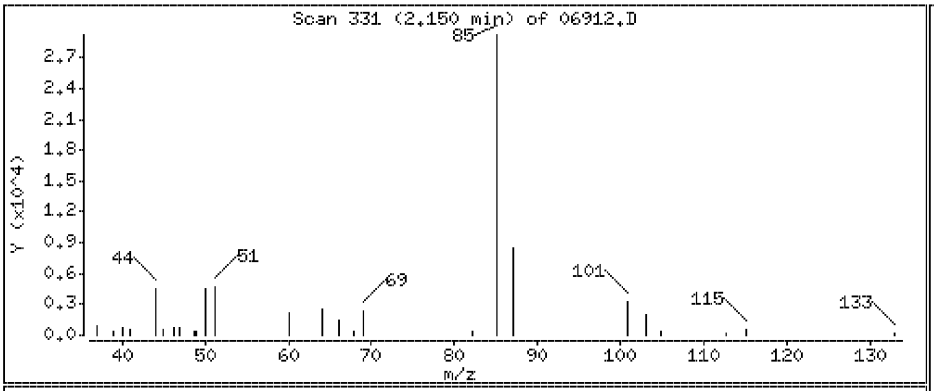
Operator: DR1

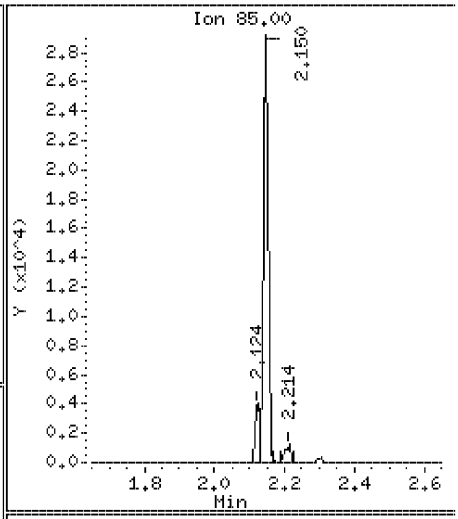
Column phase: J&W DB-5

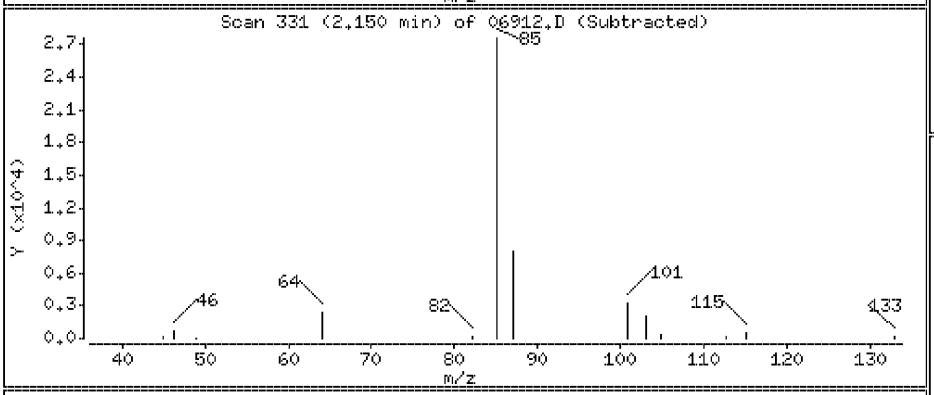
Column diameter: 0.32

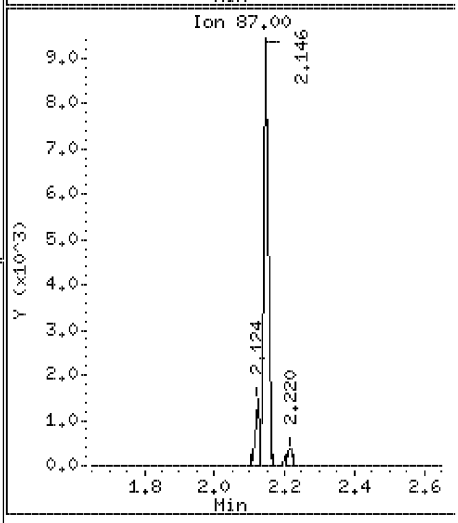
5 Dichlorodifluoromethane

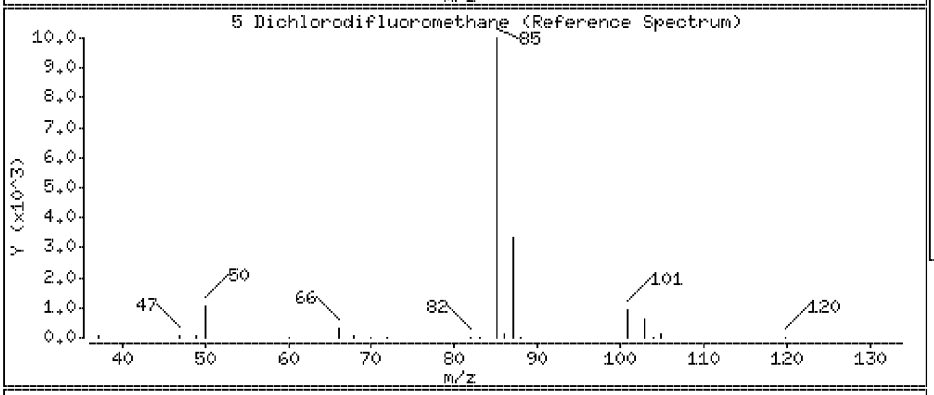
Concentration: 0.604 ppbv

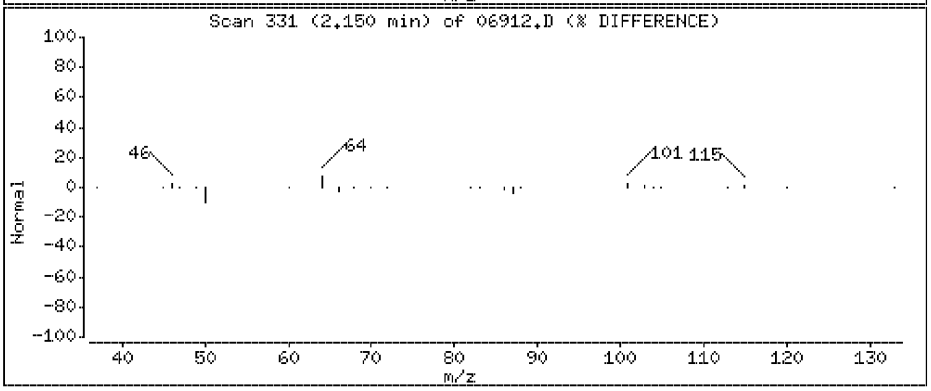












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

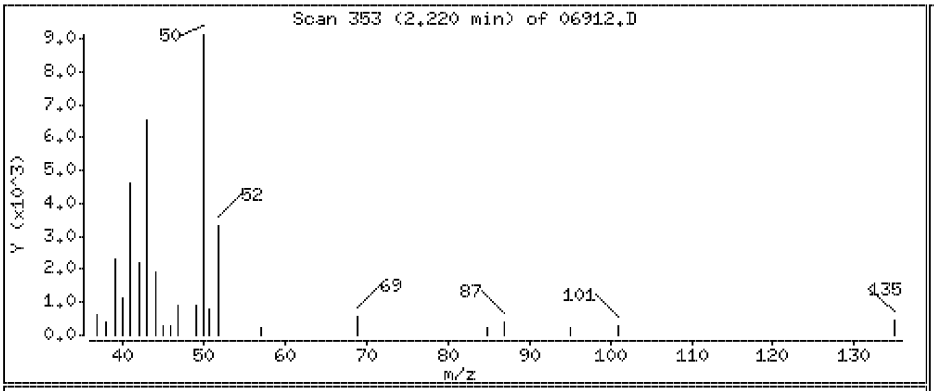
Operator: DR1

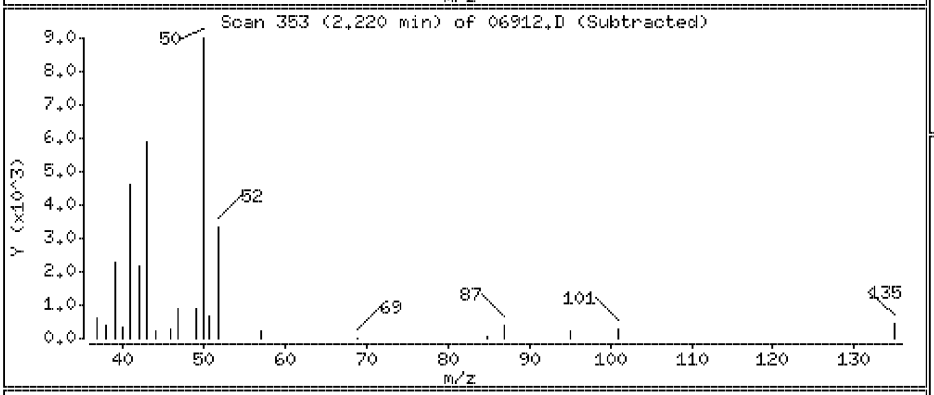
Column phase: J&W DB-5

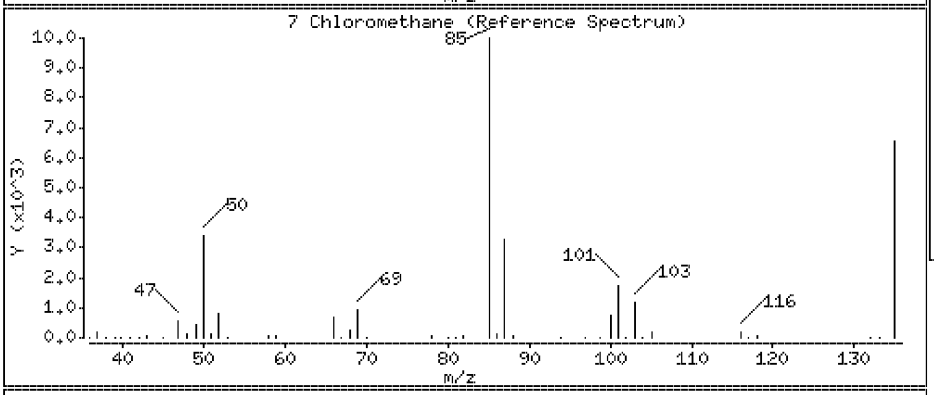
Column diameter: 0.32

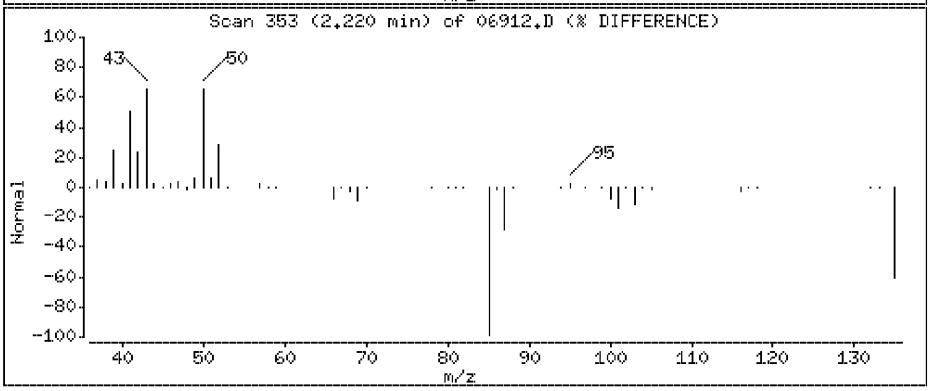
7 Chloromethane

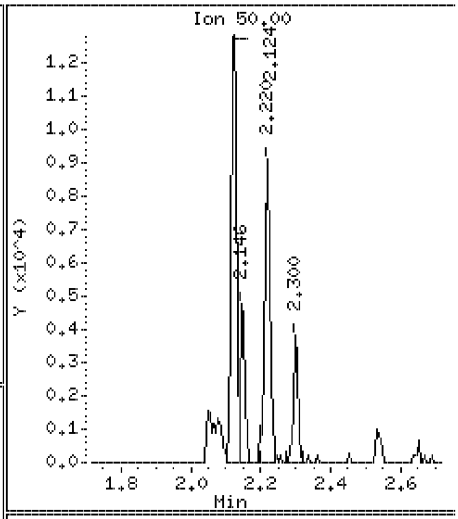
Concentration: 0.446 ppbv

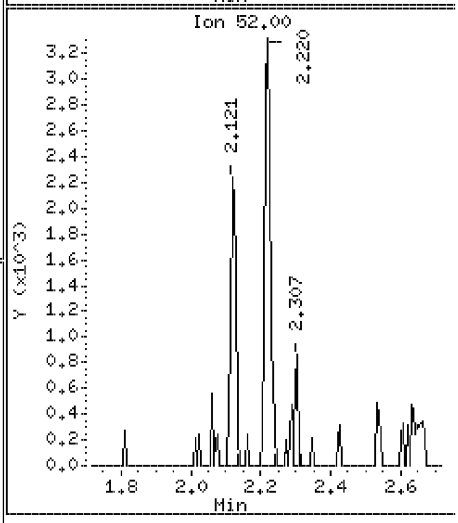












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

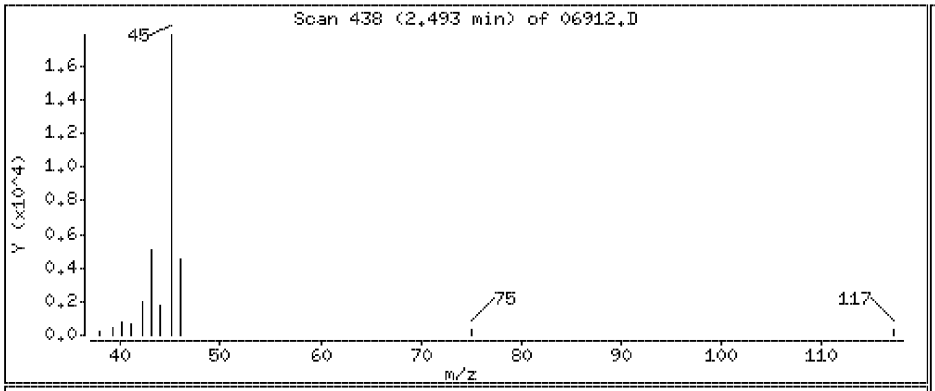
Operator: DR1

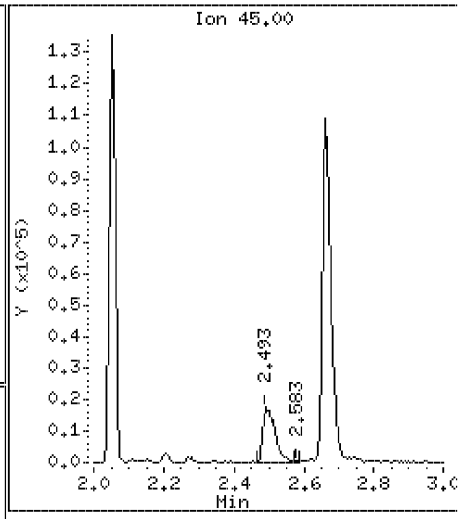
Column phase: J&W DB-5

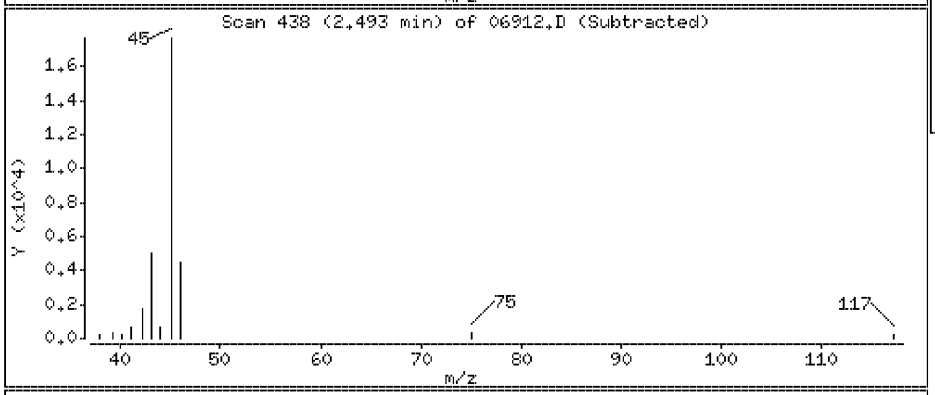
Column diameter: 0.32

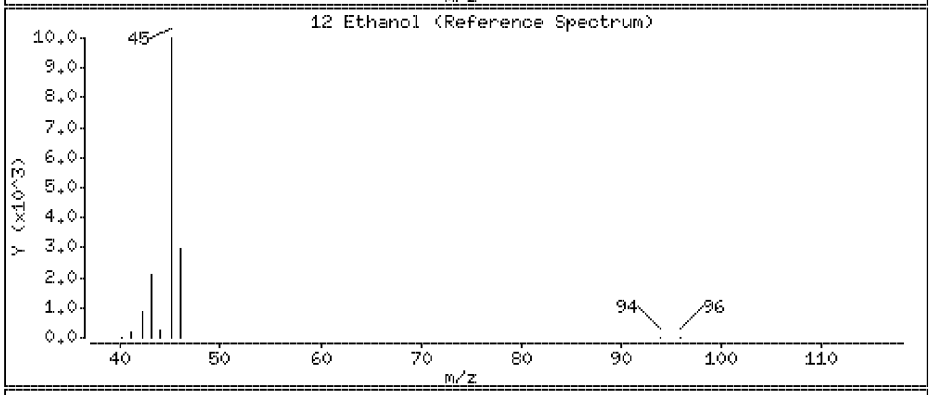
12 Ethanol

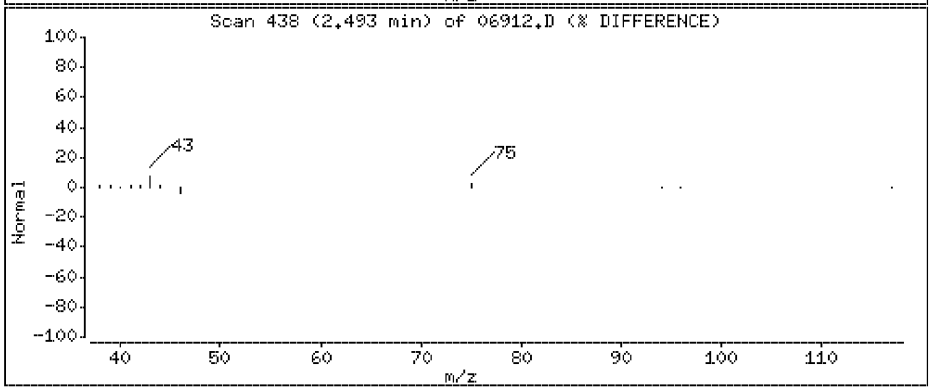
Concentration: 13.6 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

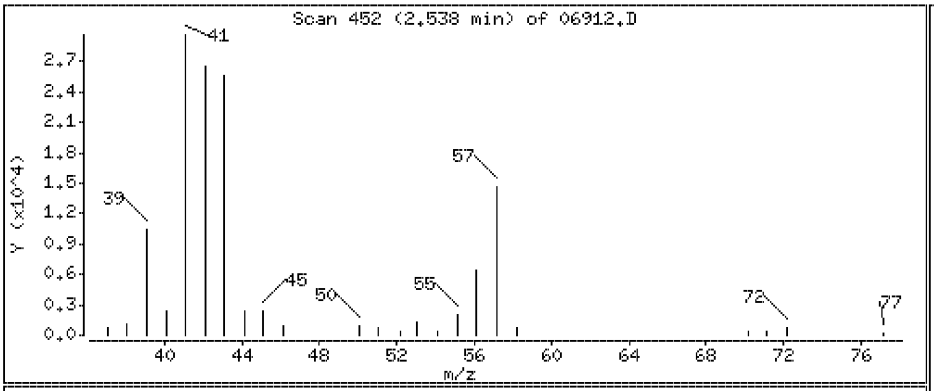
Operator: DR1

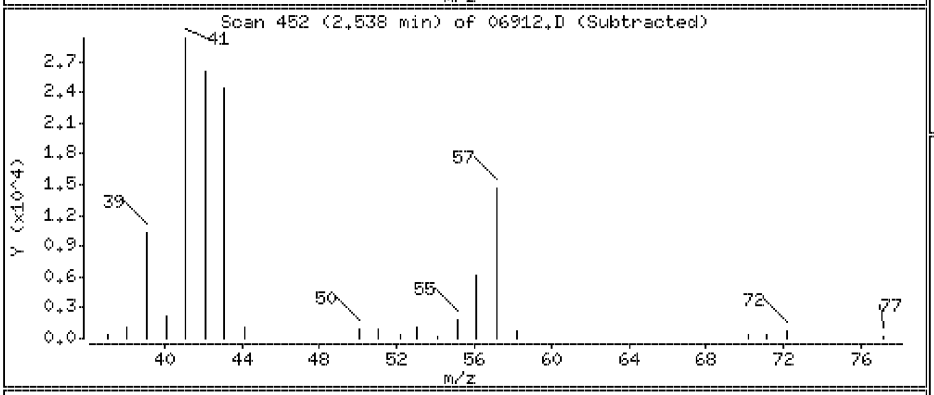
Column phase: J&W DB-5

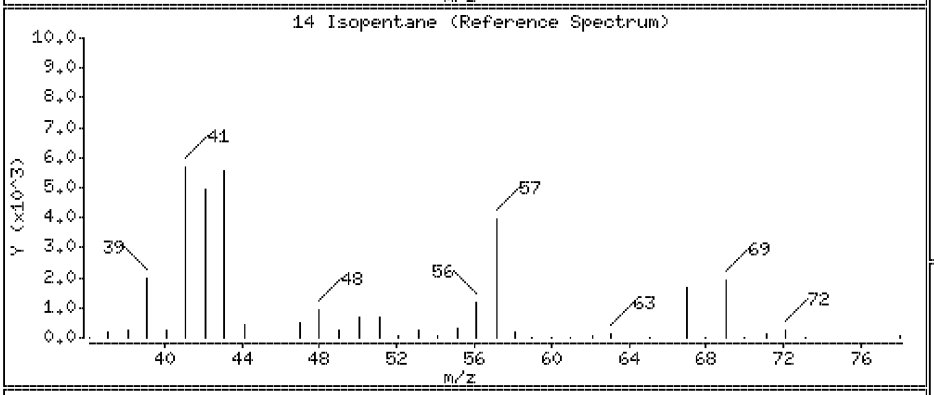
Column diameter: 0.32

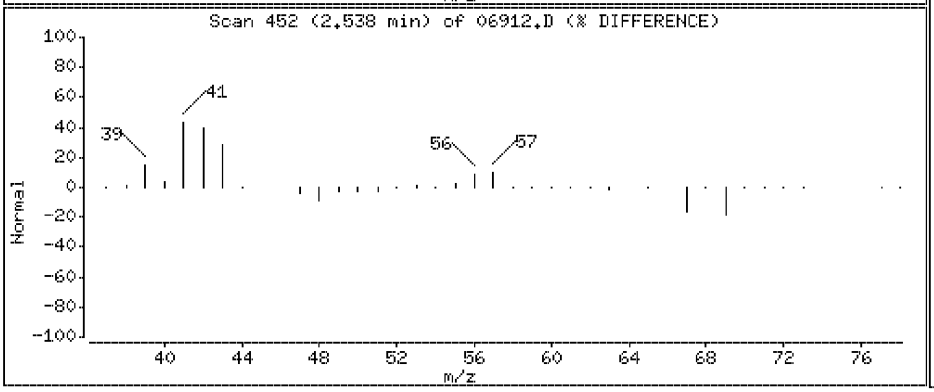
14 Isopentane

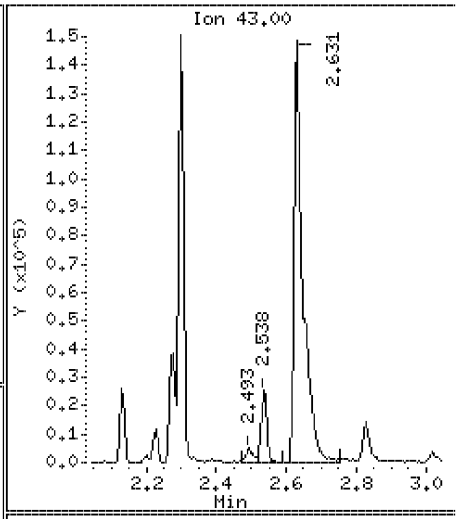
Concentration: 1.52 ppbv

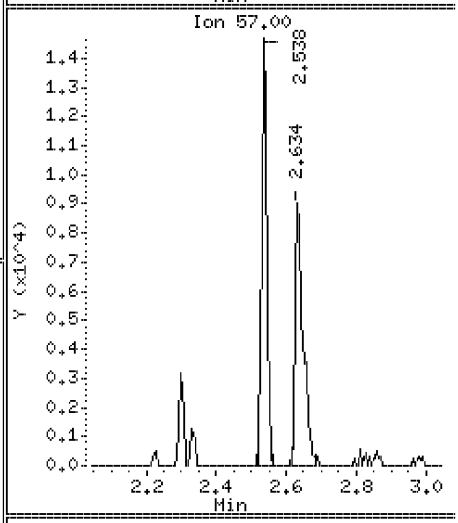


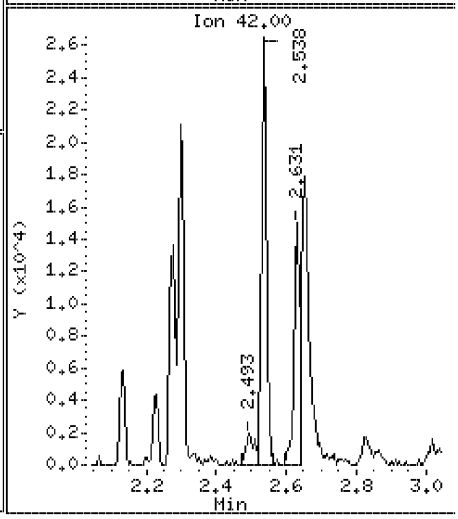












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

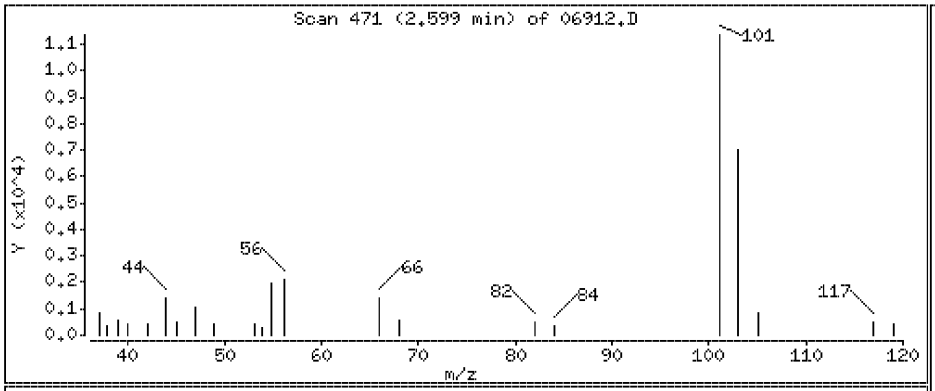
Operator: DR1

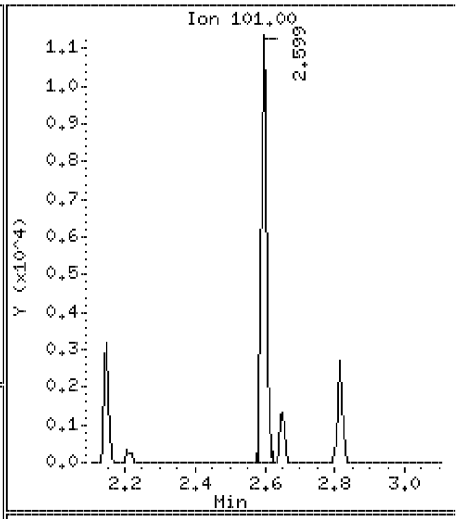
Column phase: J&W DB-5

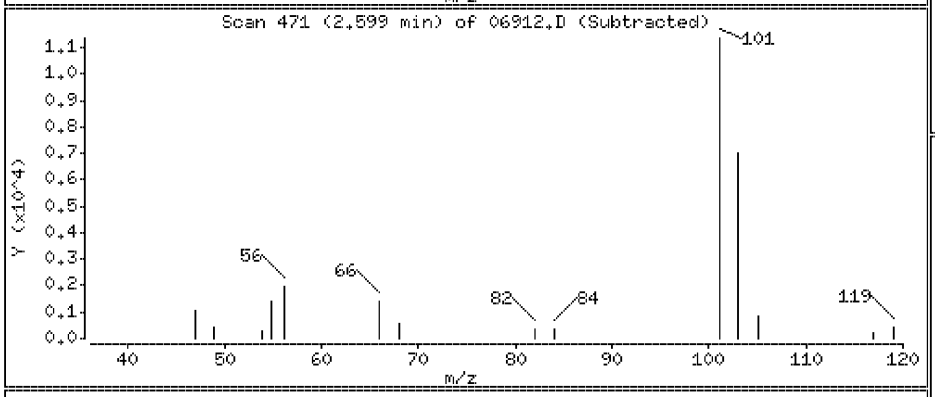
Column diameter: 0.32

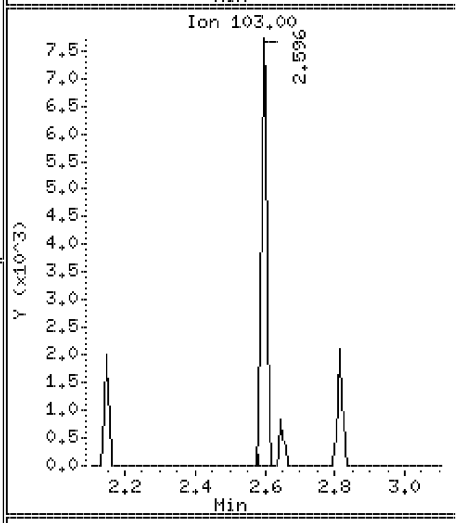
16 Trichlorofluoromethane

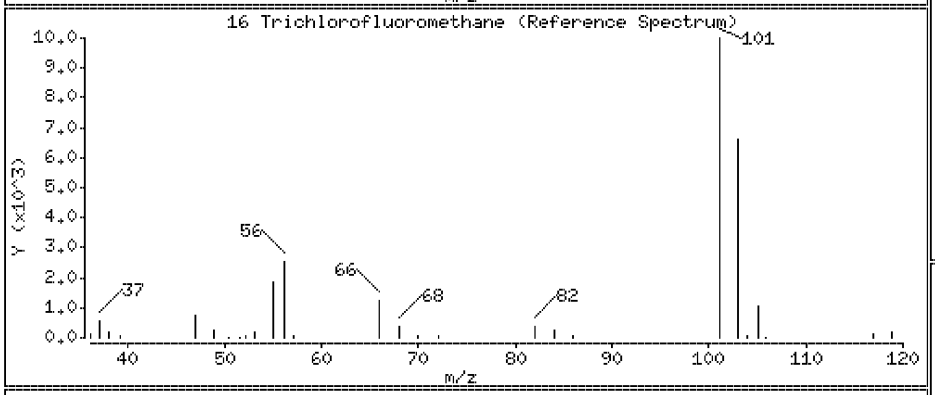
Concentration: 0.254 ppbv

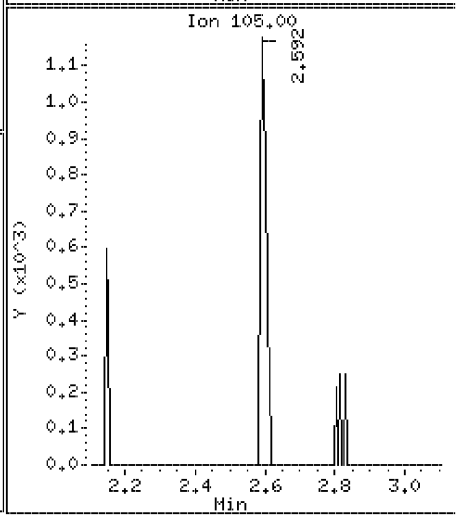


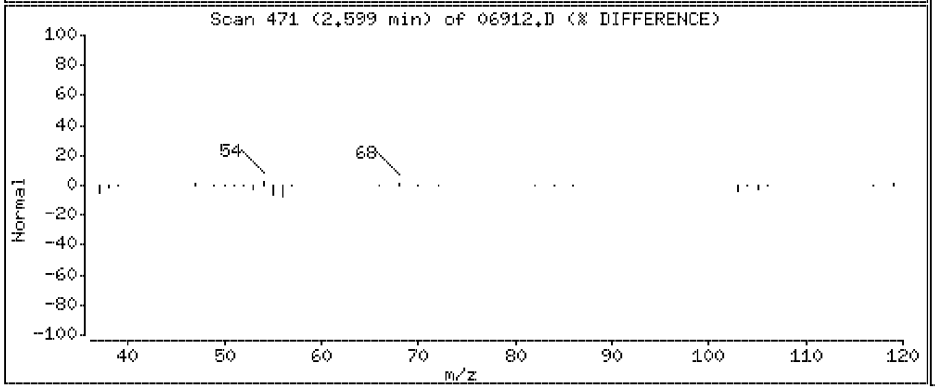












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

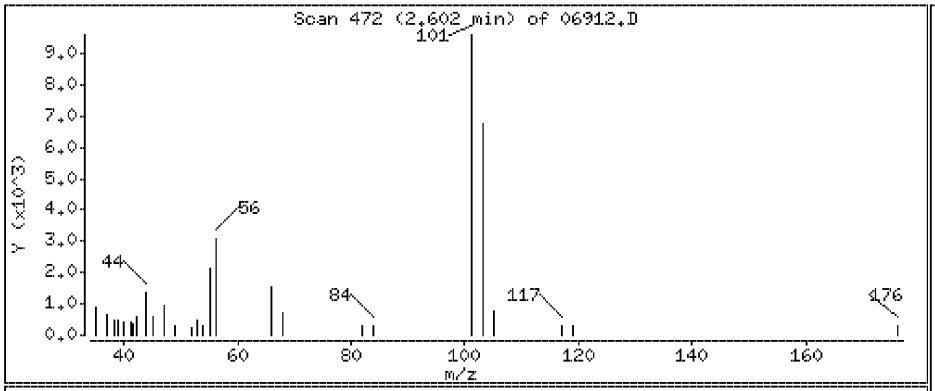
Operator: DR1

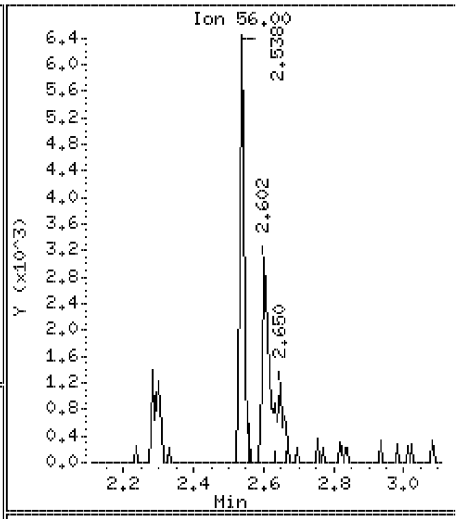
Column phase: J&W DB-5

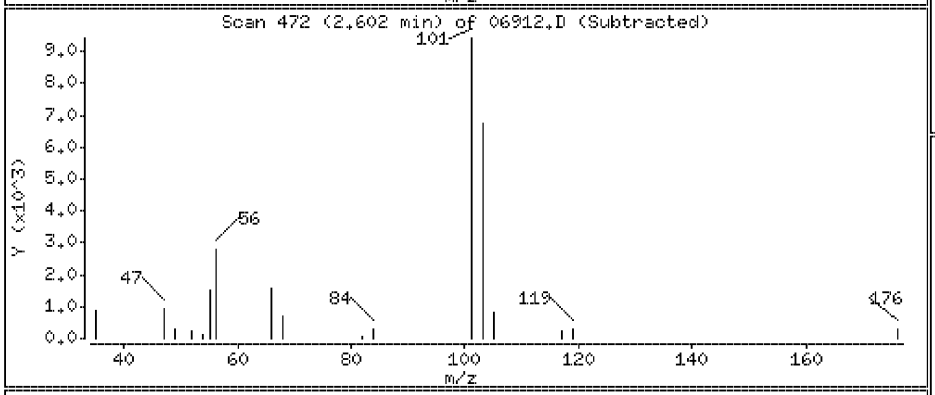
Column diameter: 0.32

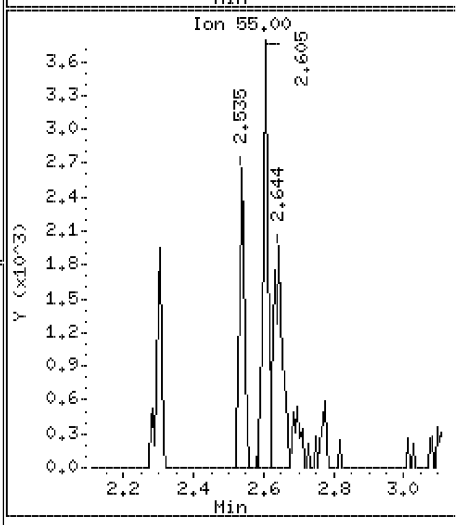
17 Acrolein

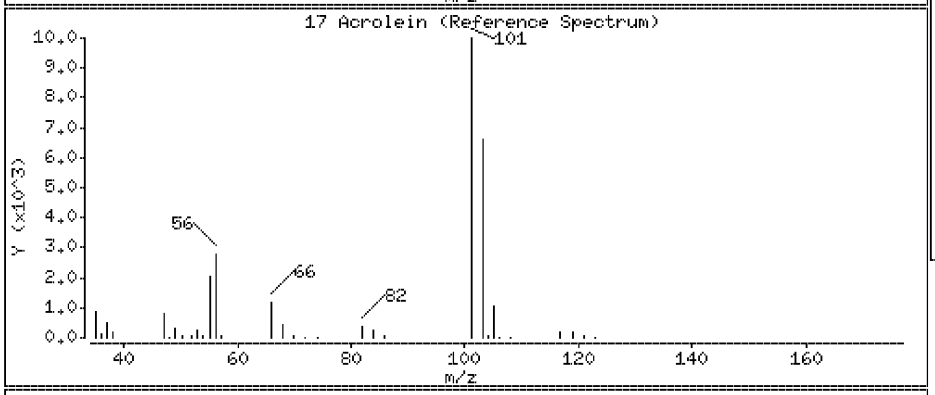
Concentration: 1.42 ppbv

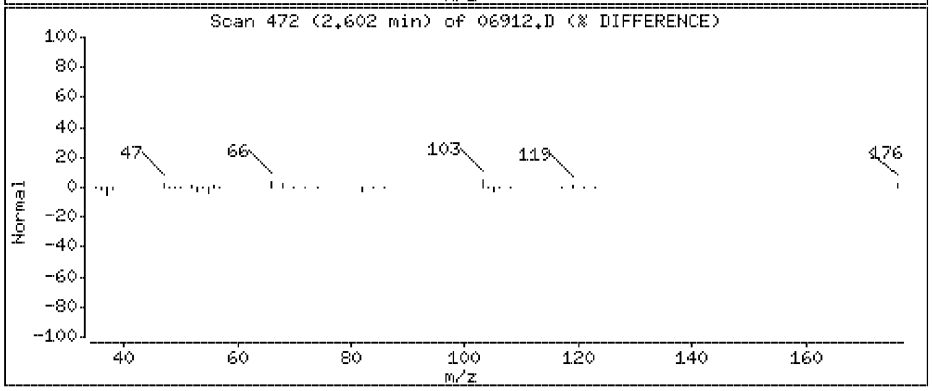












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

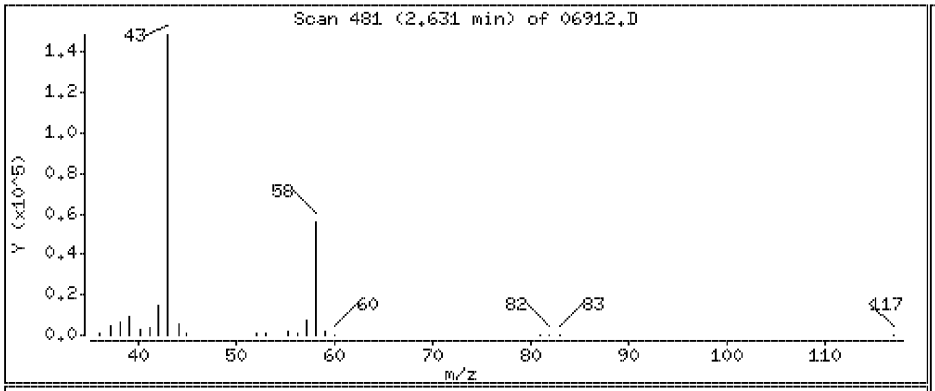
Operator: DR1

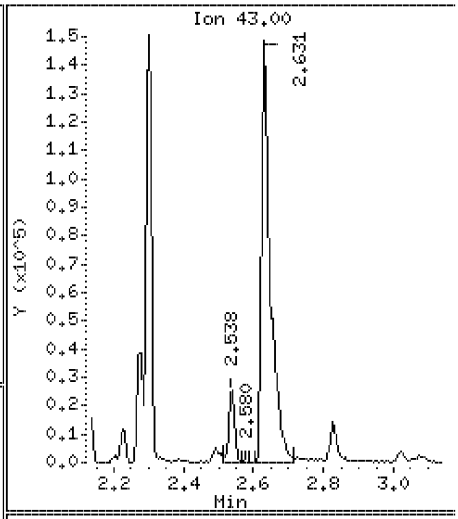
Column phase: J&W DB-5

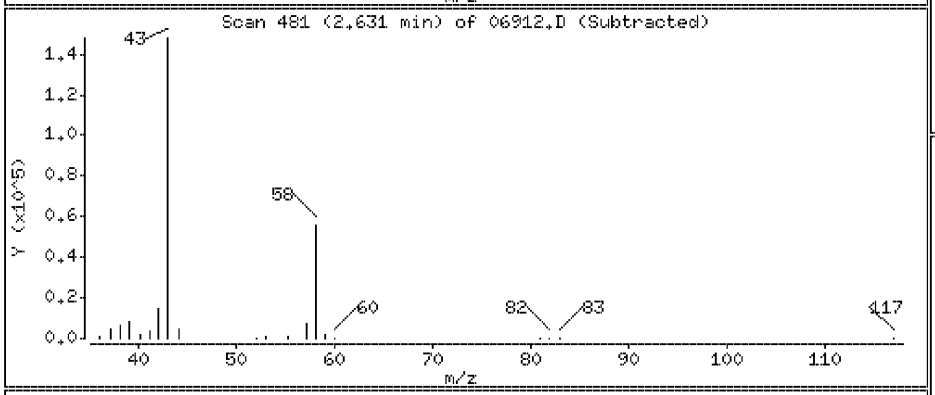
Column diameter: 0.32

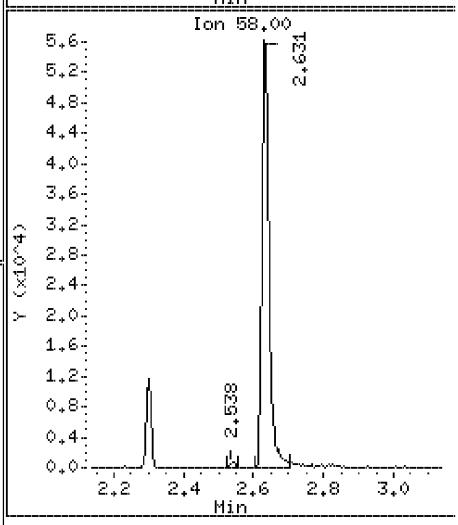
18 Acetone

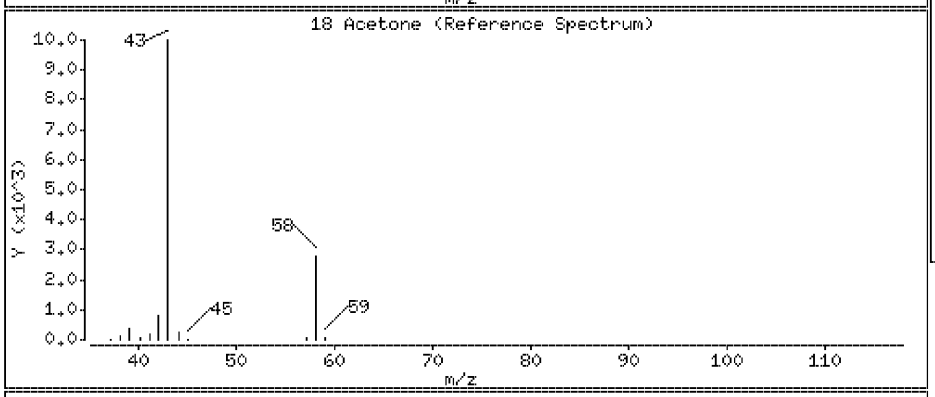
Concentration: 9.12 ppbv

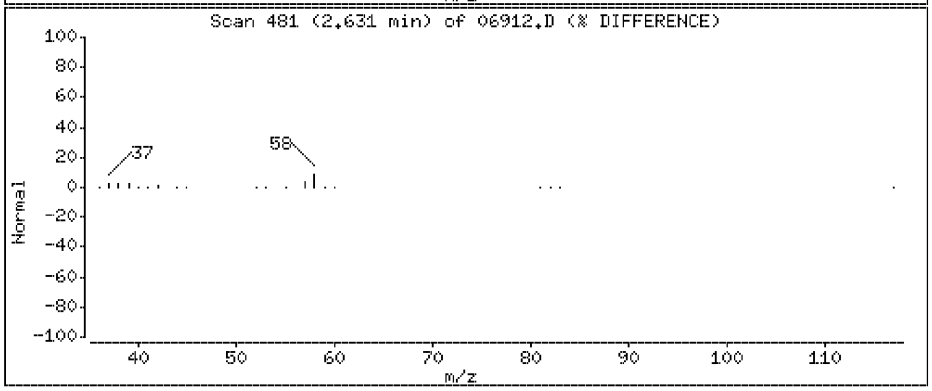












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

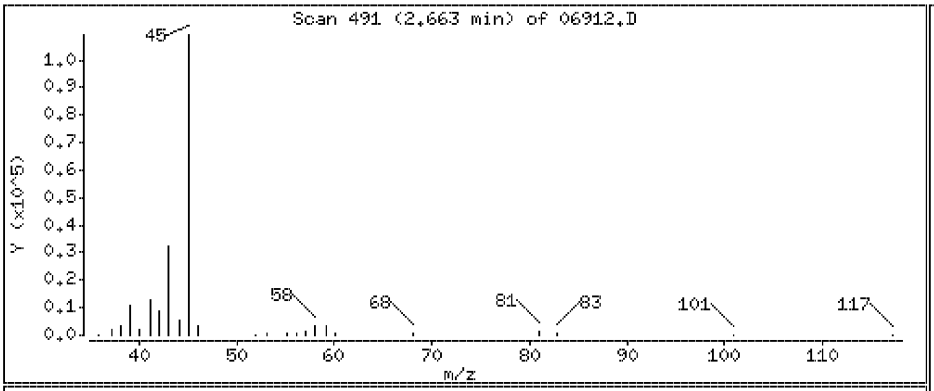
Operator: DR1

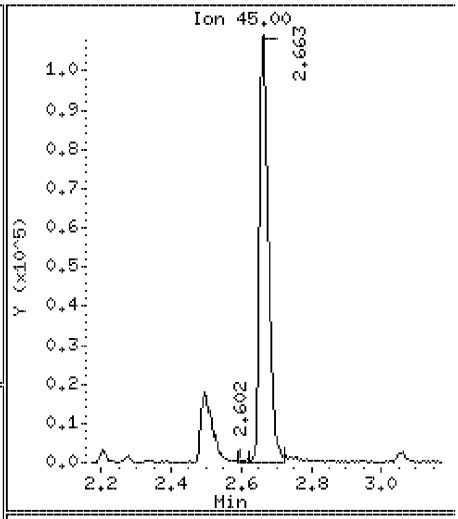
Column phase: J&W DB-5

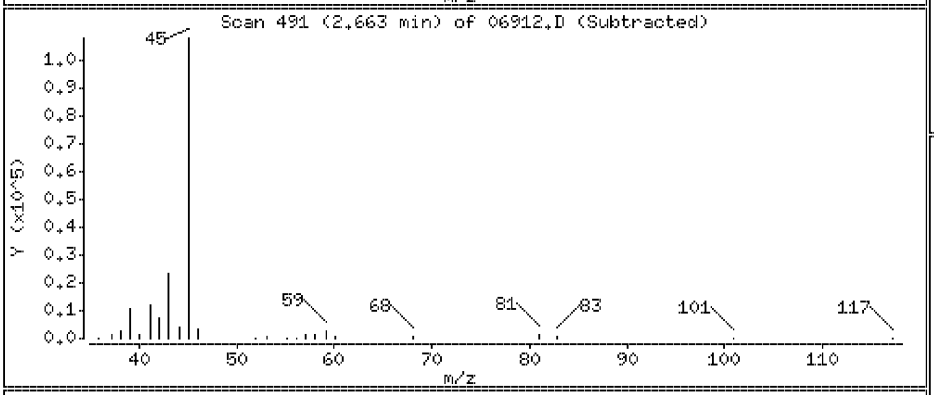
Column diameter: 0.32

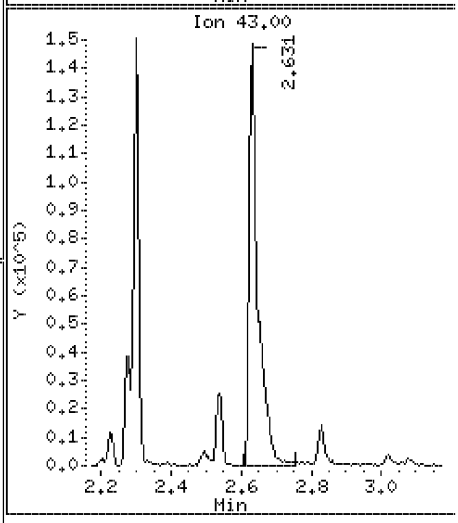
19 Isopropyl Alcohol

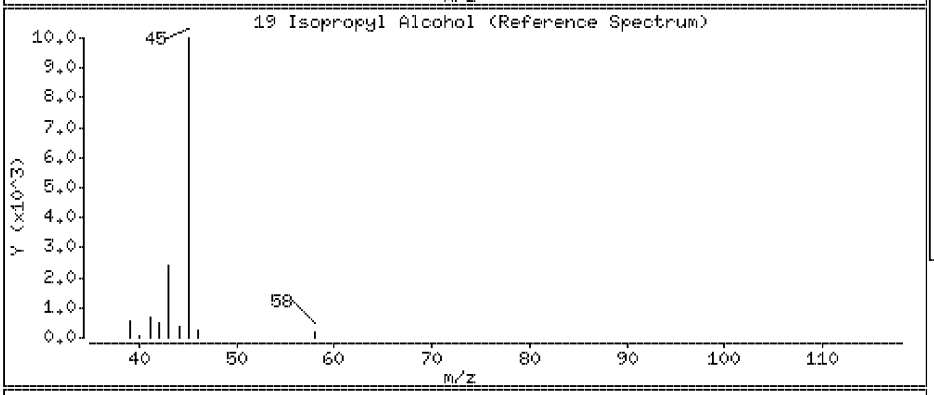
Concentration: 11.8 ppbv

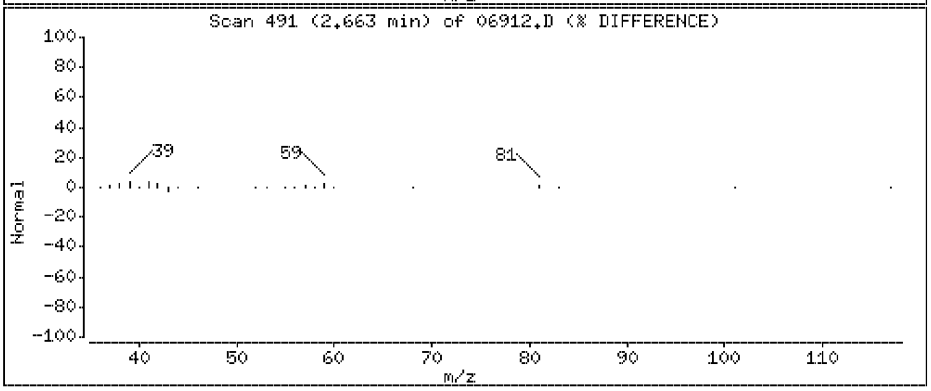












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

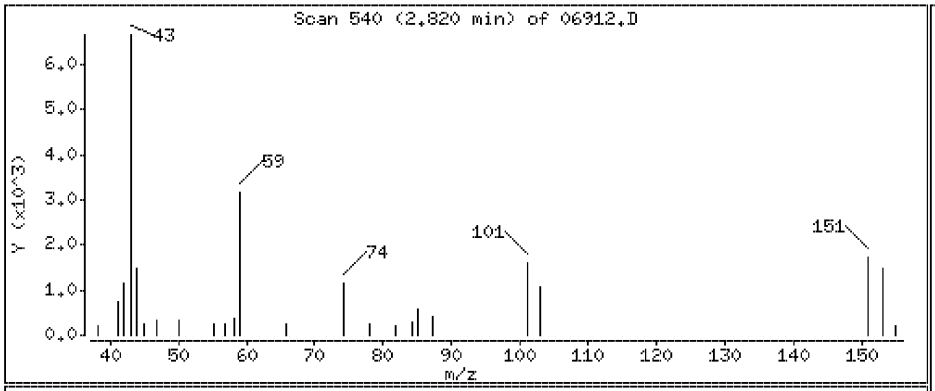
Operator: DR1

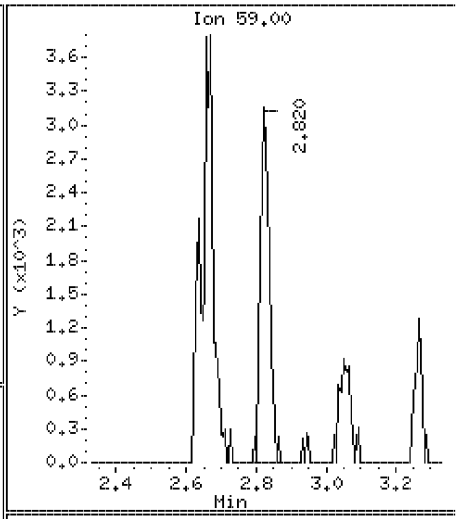
Column phase: J&W DB-5

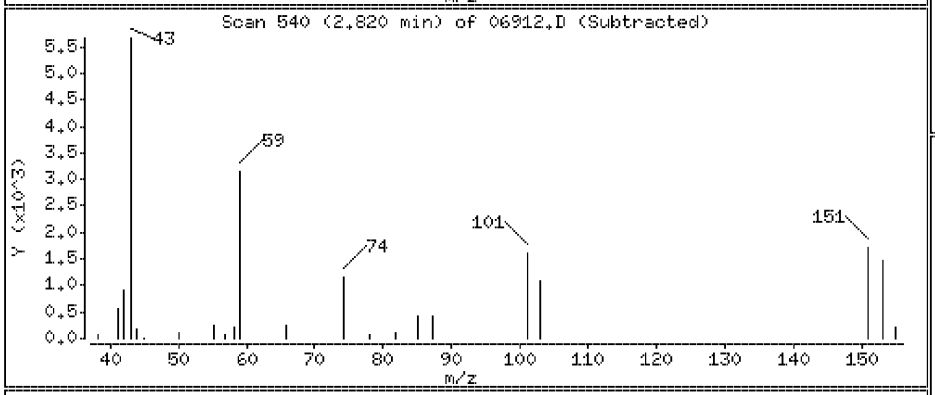
Column diameter: 0.32

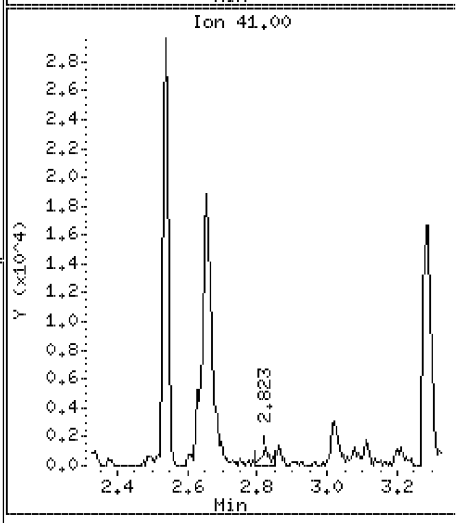
24 Tert Butyl Alcohol (TBA)

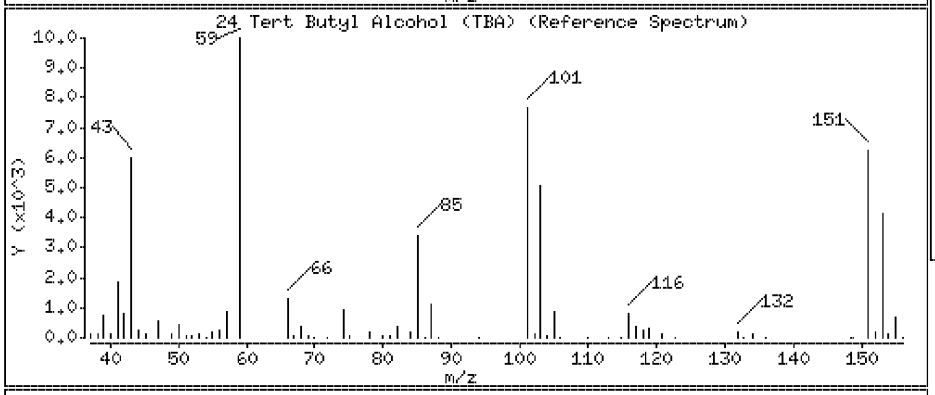
Concentration: 0.264 ppbv

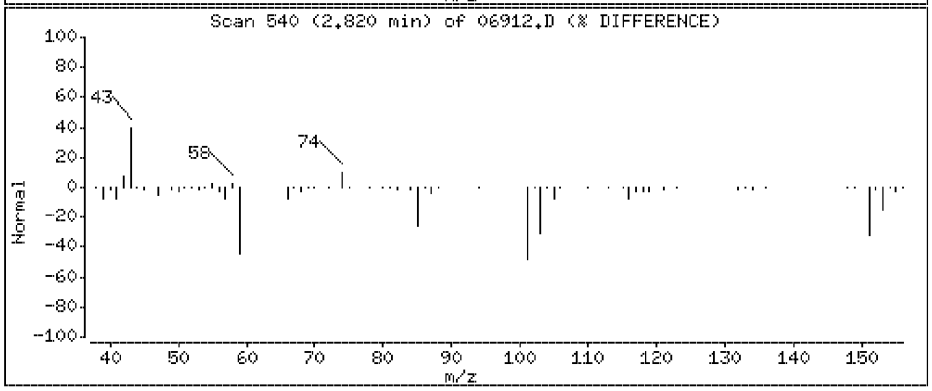












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

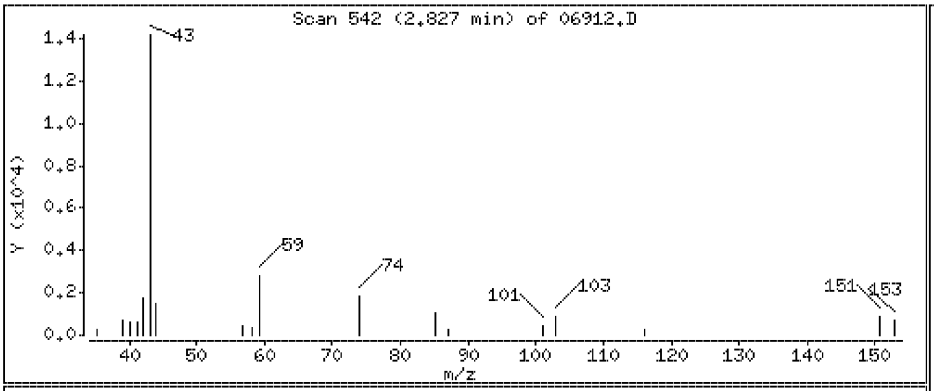
Operator: DR1

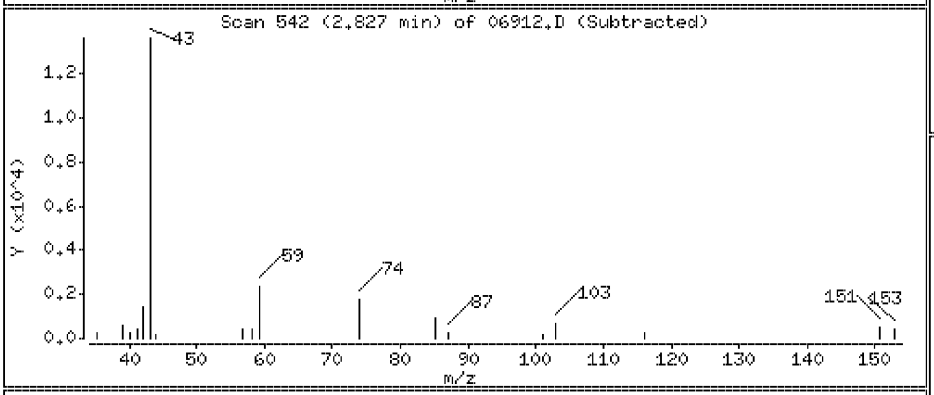
Column phase: J&W DB-5

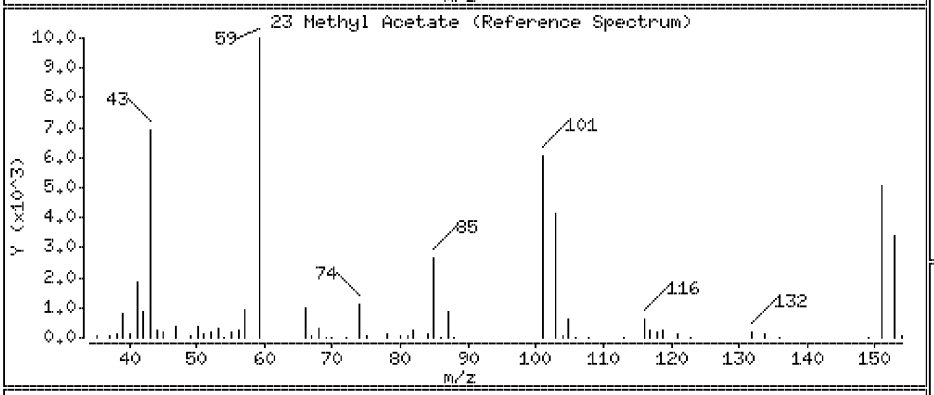
Column diameter: 0.32

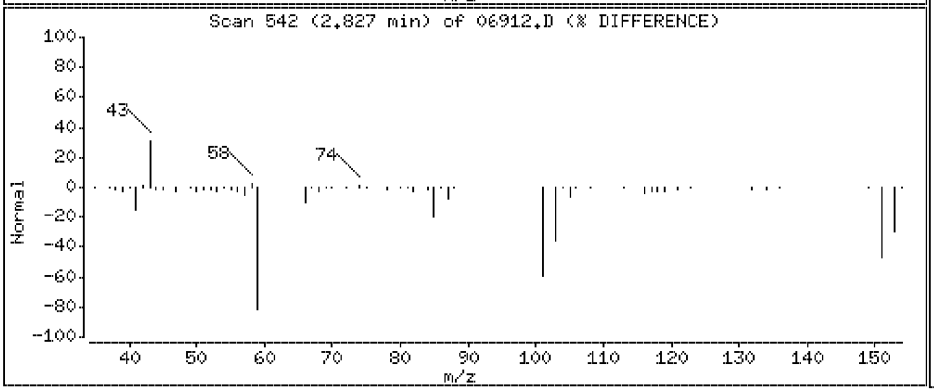
23 Methyl Acetate

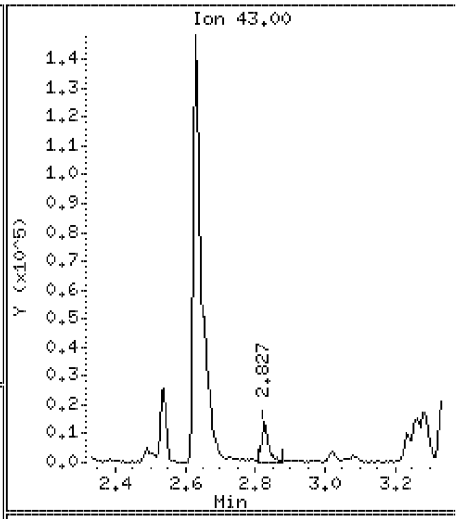
Concentration: 0.476 ppbv

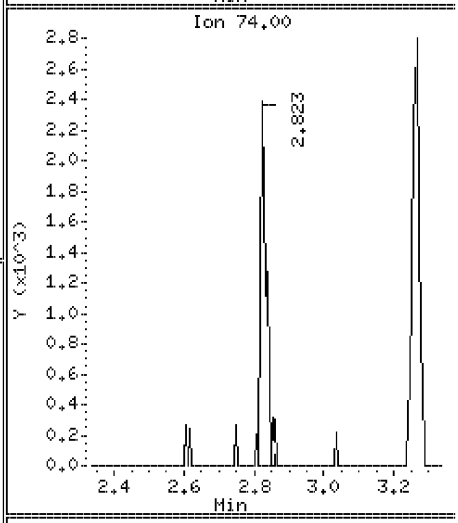


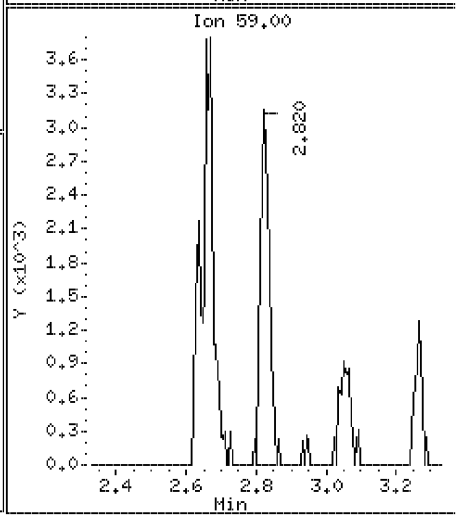












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

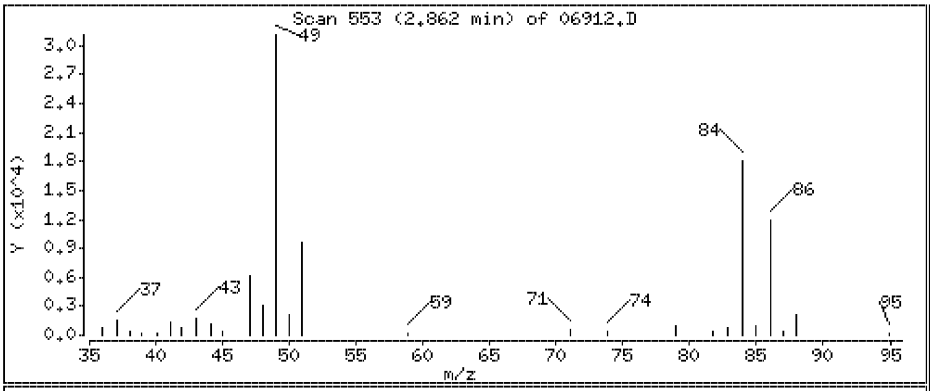
Operator: DR1

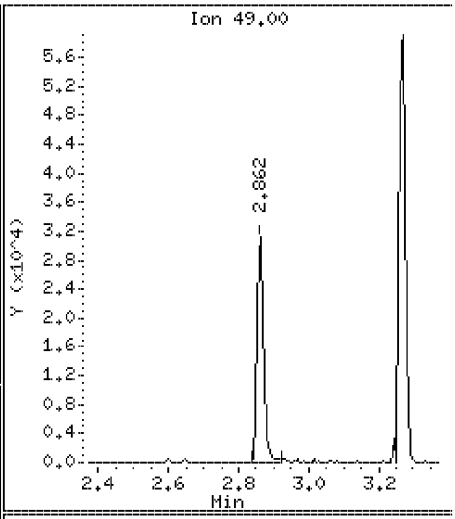
Column phase: J&W DB-5

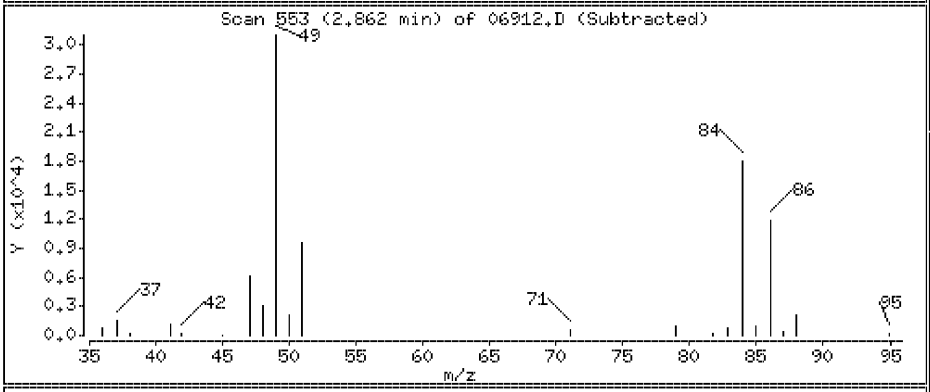
Column diameter: 0.32

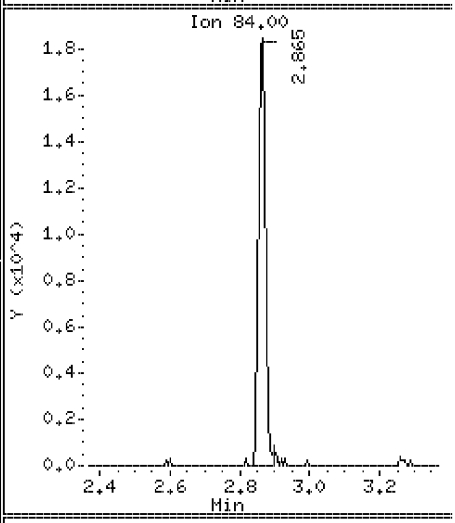
25 Methylene chloride

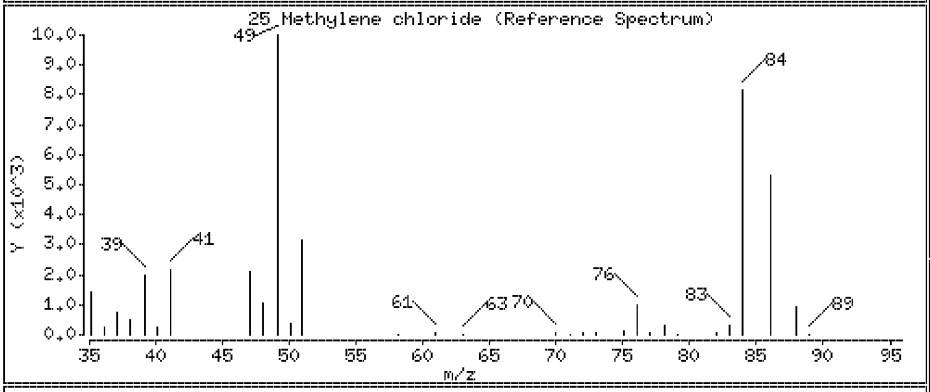
Concentration: 1.26 ppbv

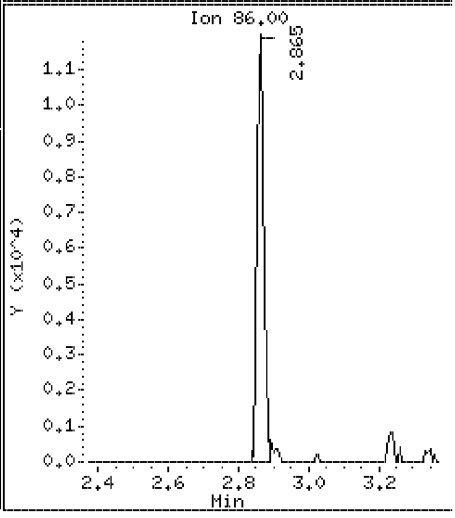


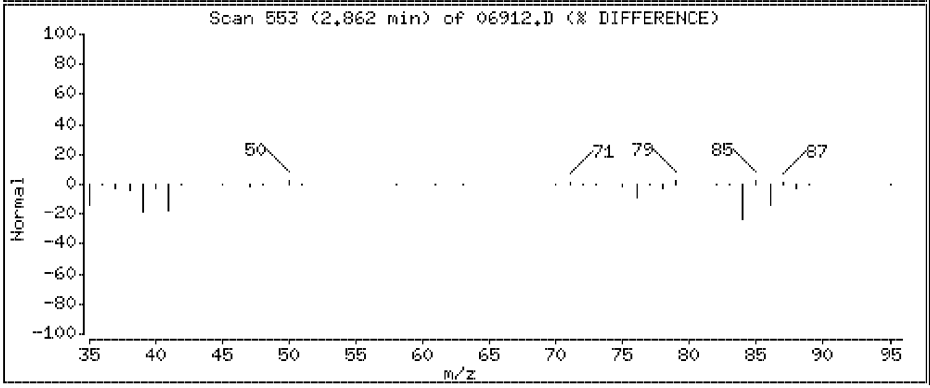












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

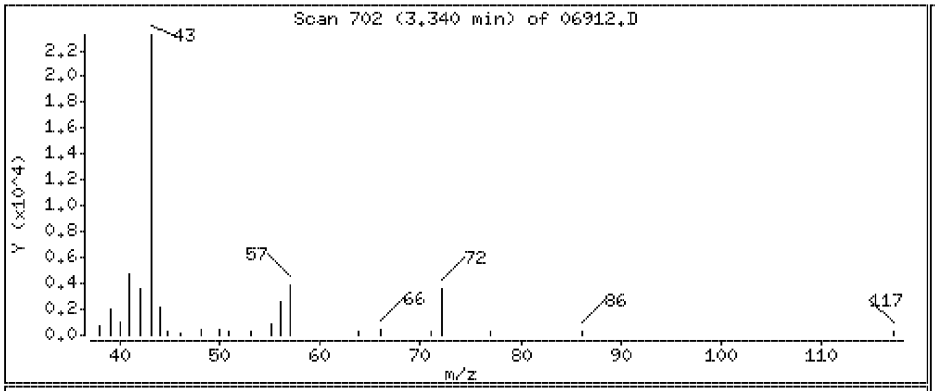
Operator: DR1

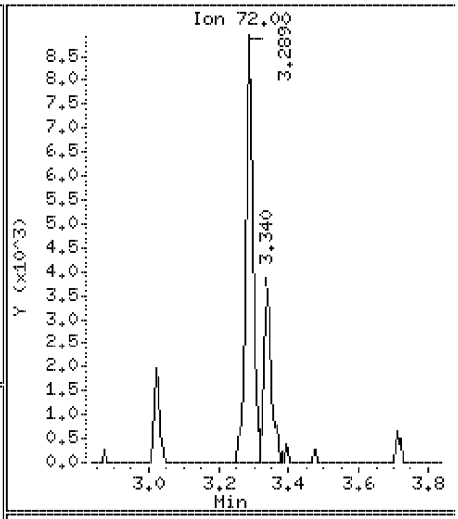
Column phase: J&W DB-5

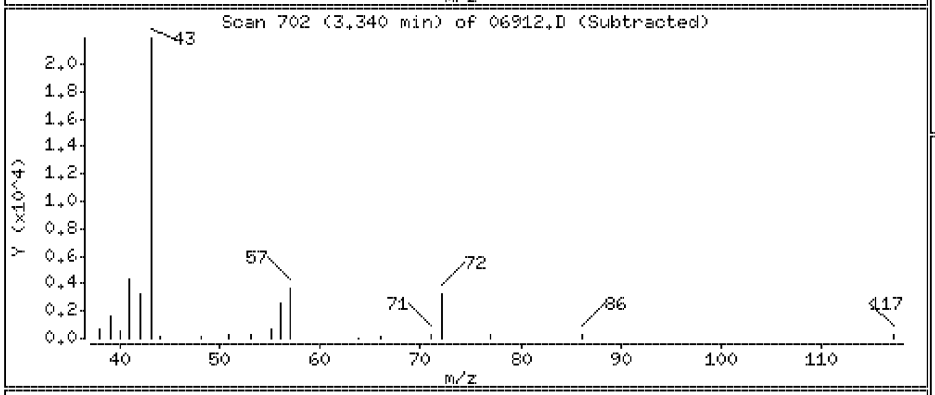
Column diameter: 0.32

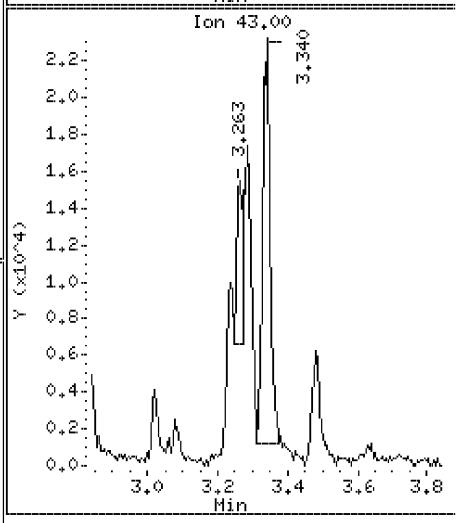
33 Methyl Ethyl Ketone

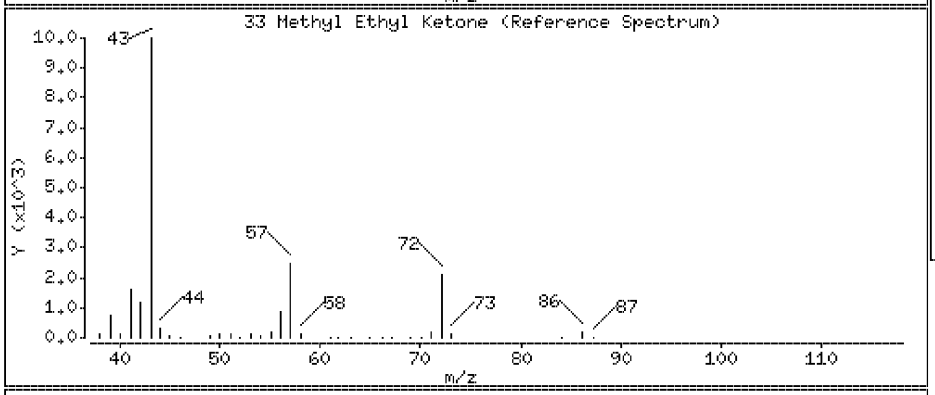
Concentration: 0.826 ppbv

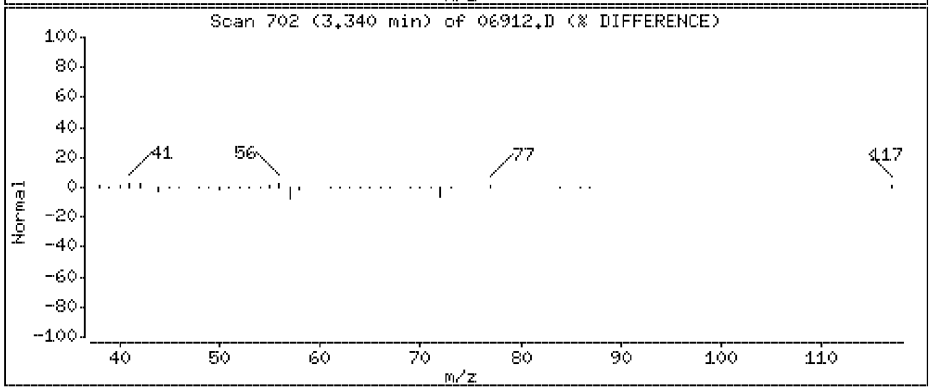












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

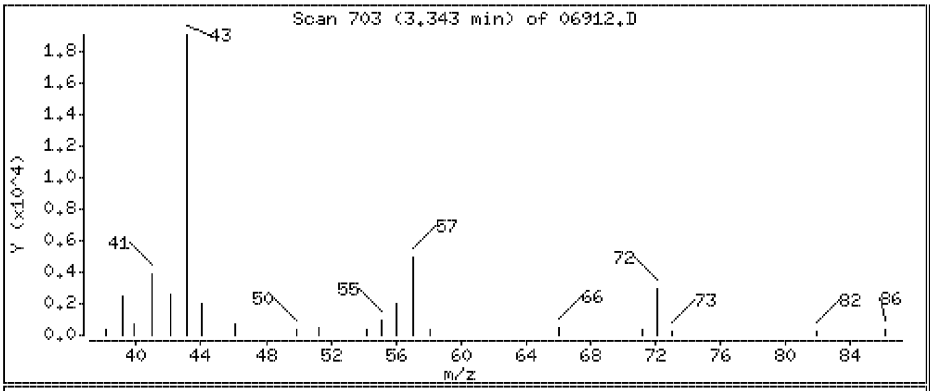
Operator: DR1

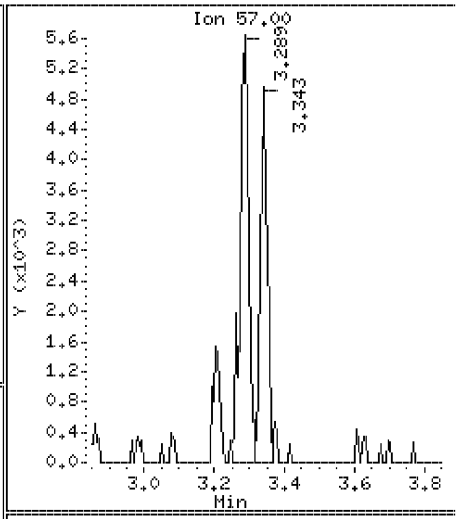
Column phase: J&W DB-5

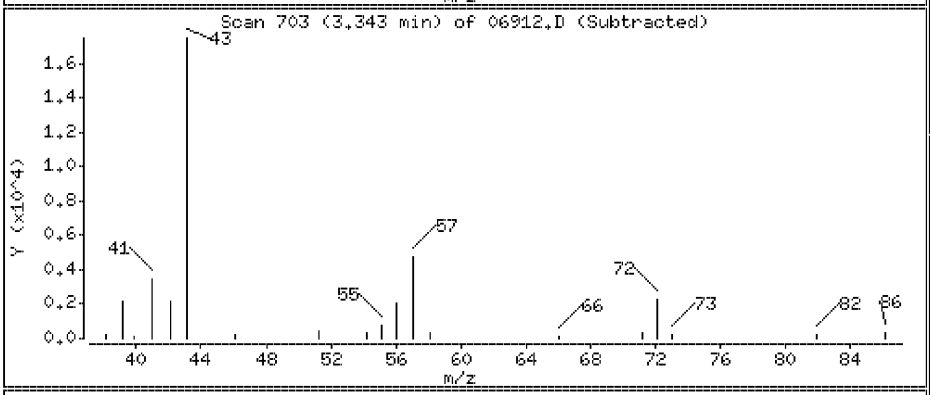
Column diameter: 0.32

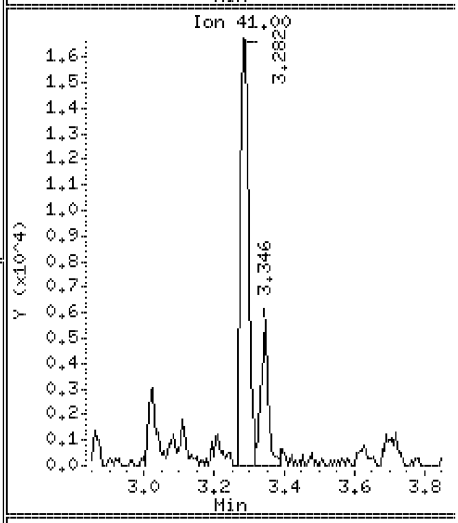
34 n-Hexane

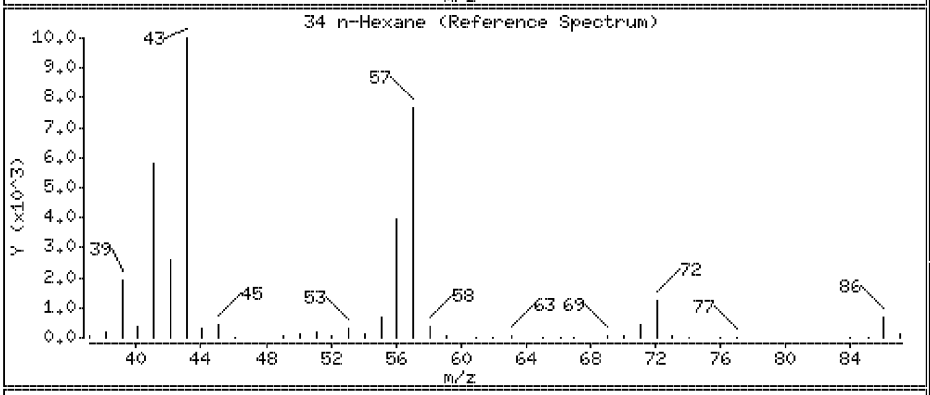
Concentration: 0.294 ppbv

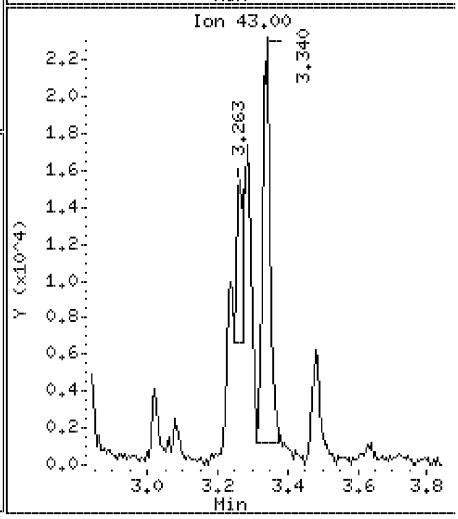


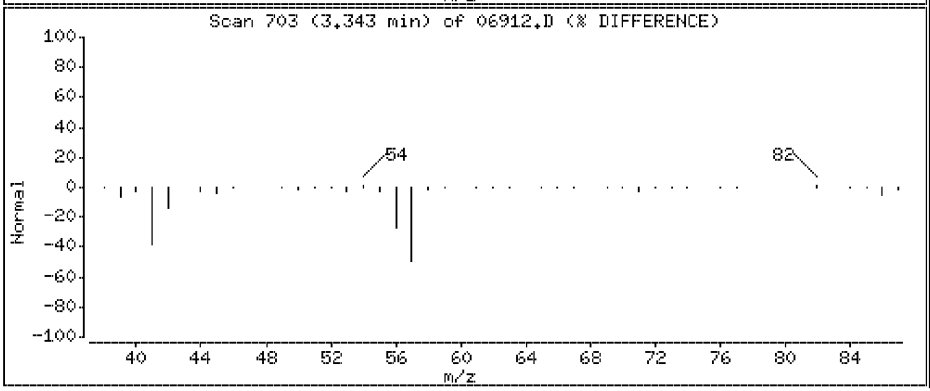












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

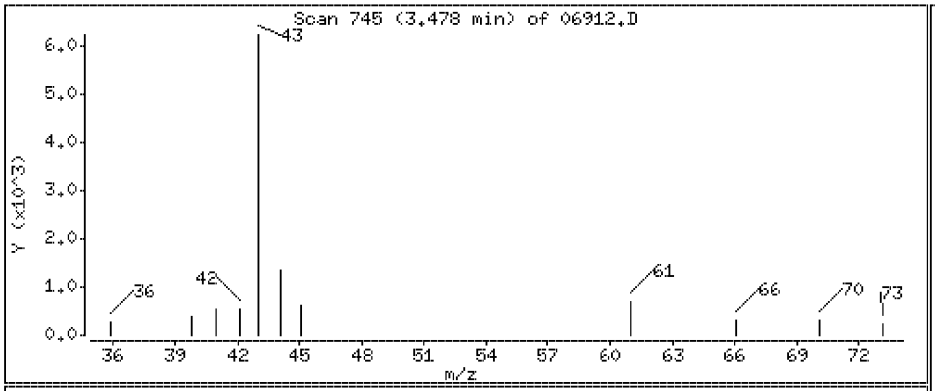
Operator: DR1

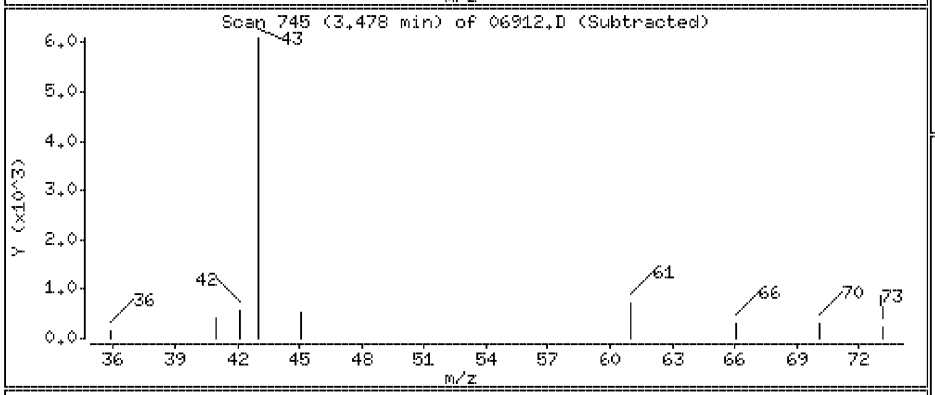
Column phase: J&W DB-5

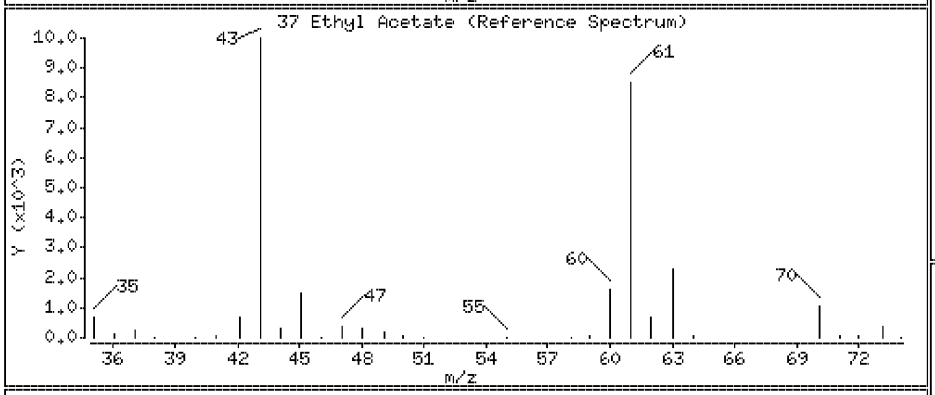
Column diameter: 0.32

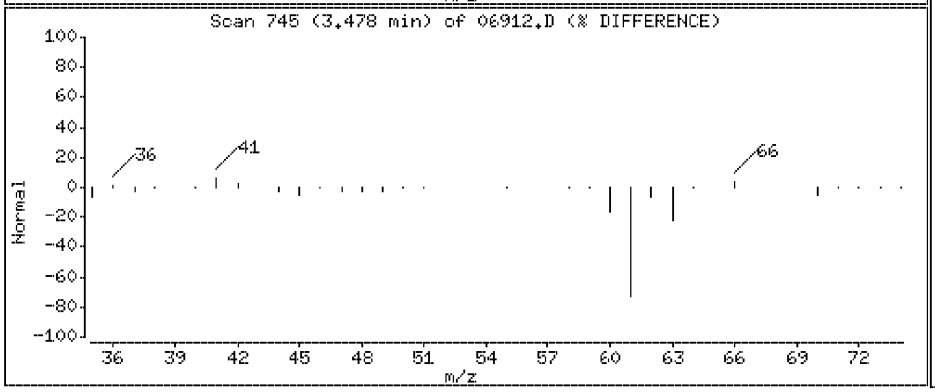
37 Ethyl Acetate

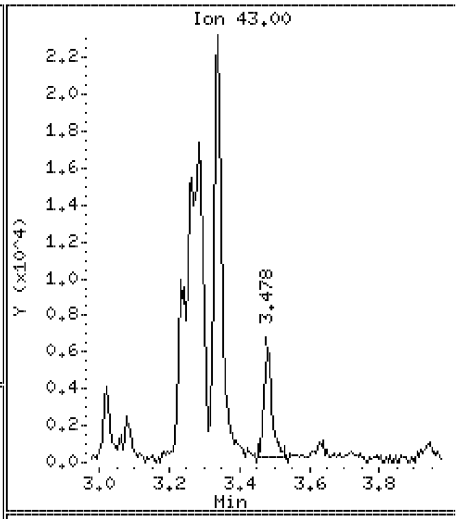
Concentration: 0.246 ppbv

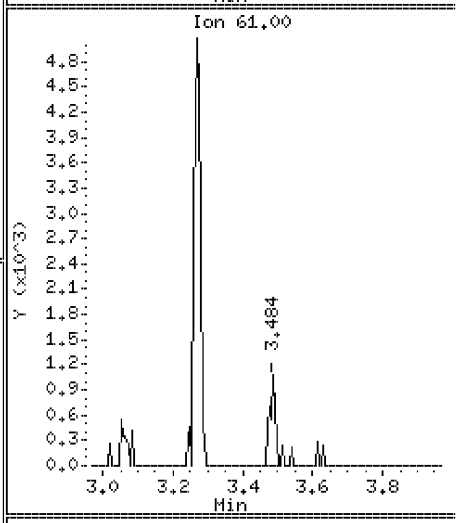


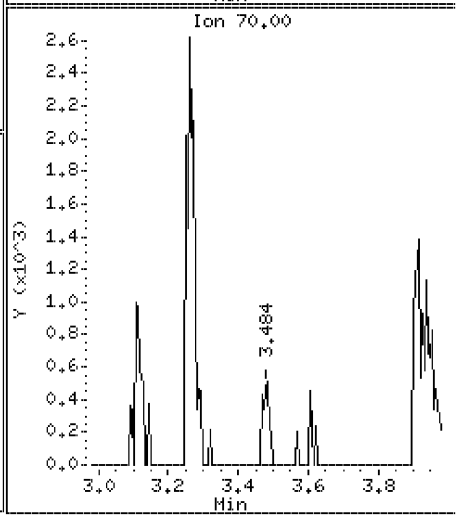












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

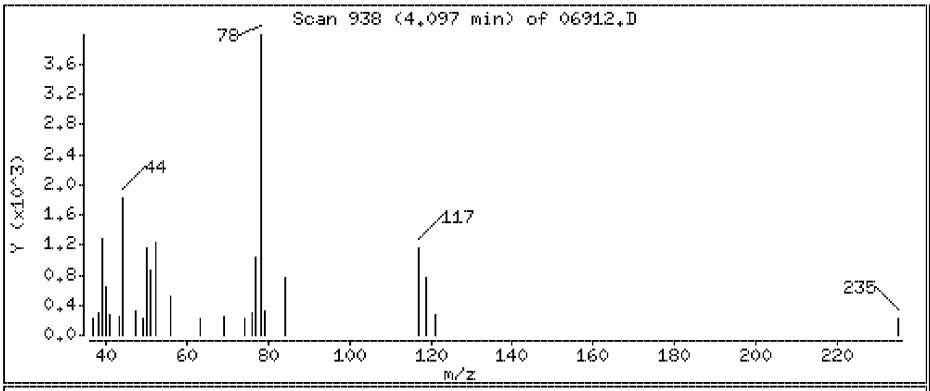
Operator: DR1

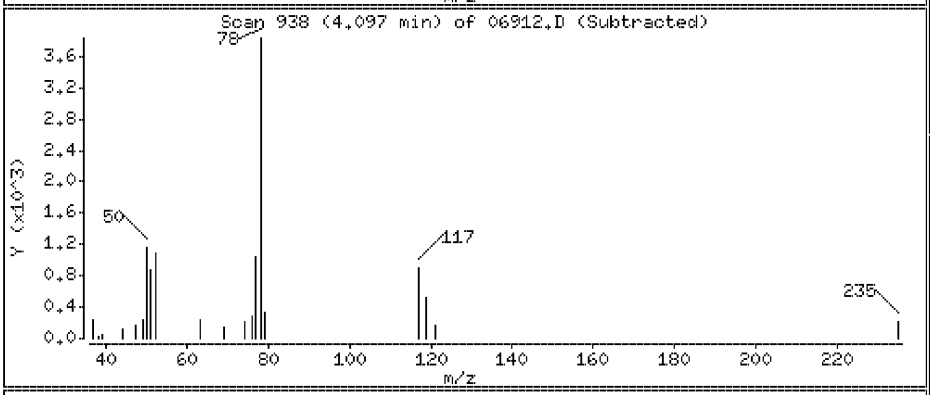
Column phase: J&W DB-5

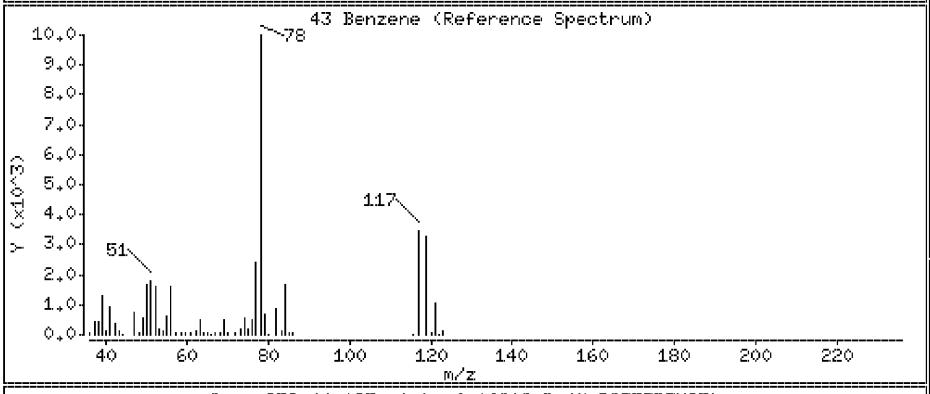
Column diameter: 0.32

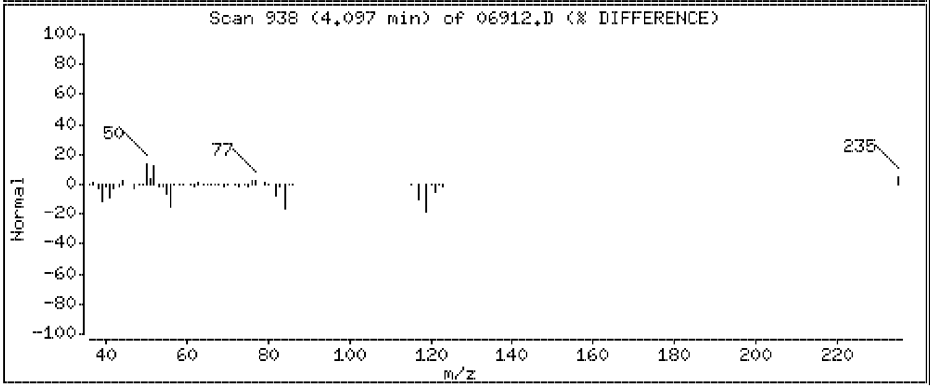
43 Benzene

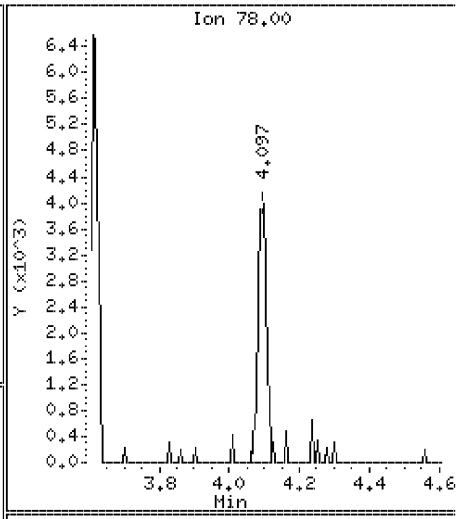
Concentration: 0.154 ppbv

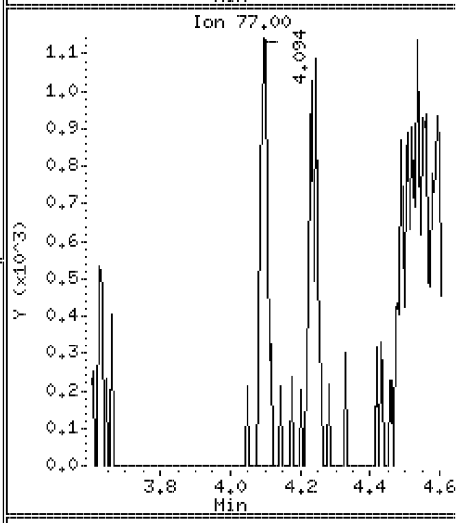


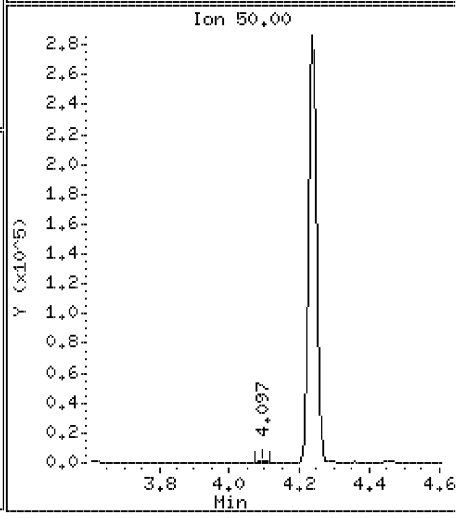












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

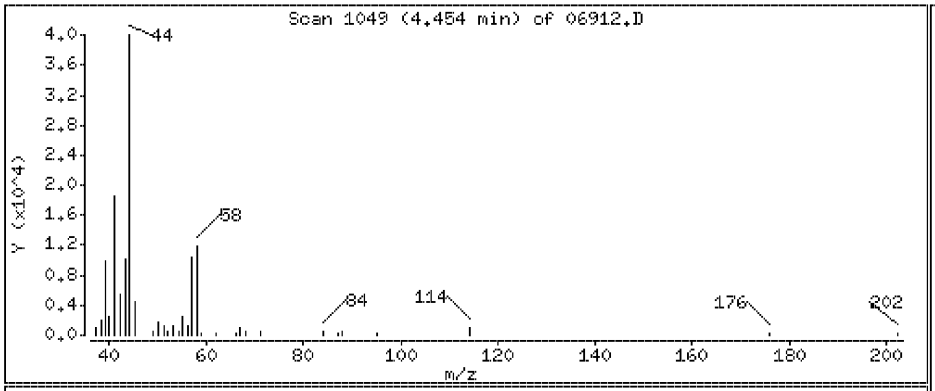
Operator: DR1

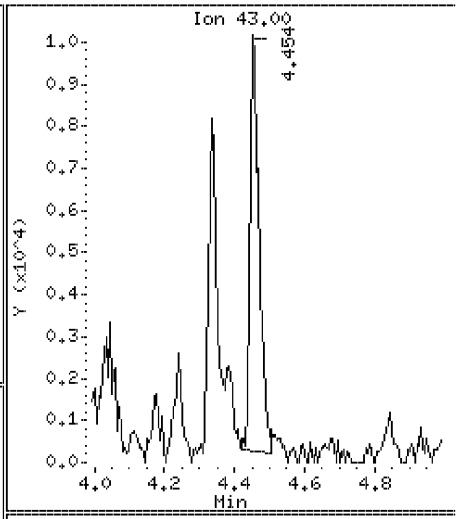
Column phase: J&W DB-5

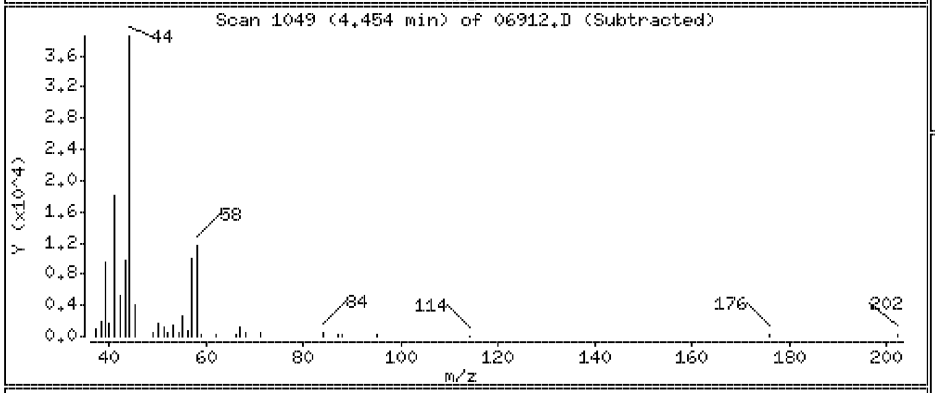
Column diameter: 0.32

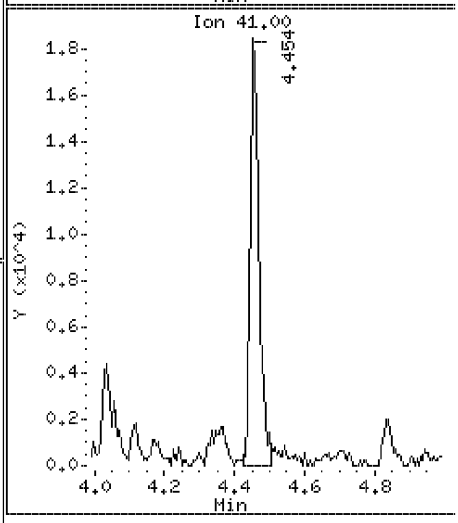
49 Heptane

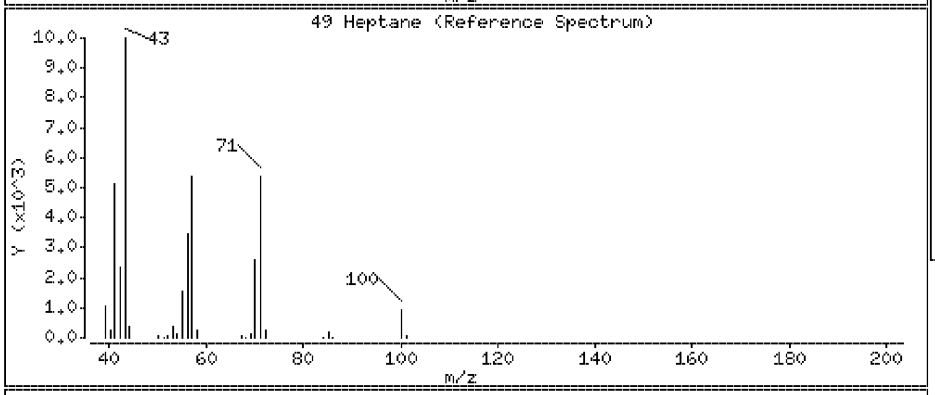
Concentration: 0.527 ppbv

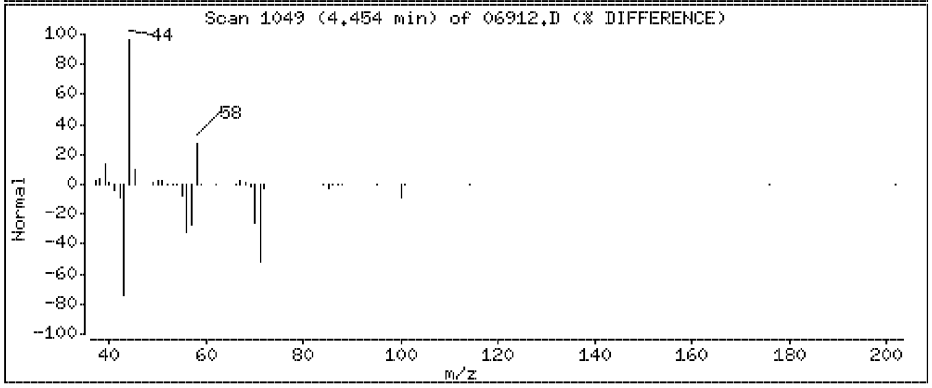












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

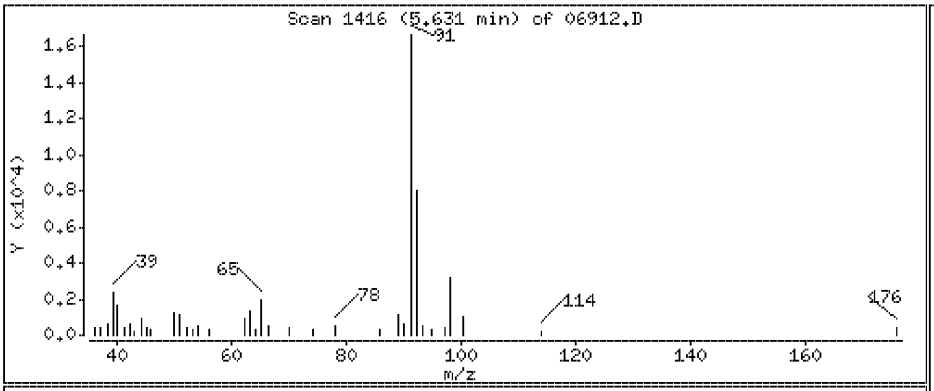
Operator: DR1

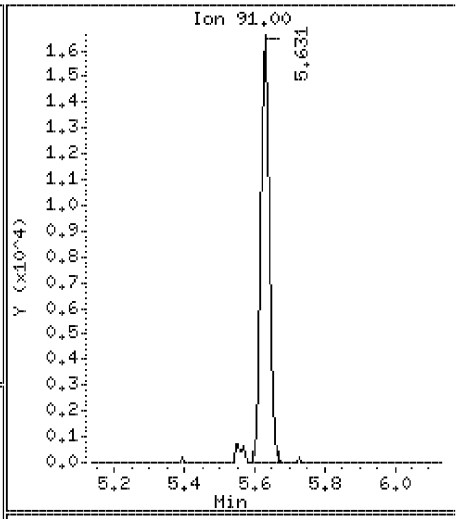
Column phase: J&W DB-5

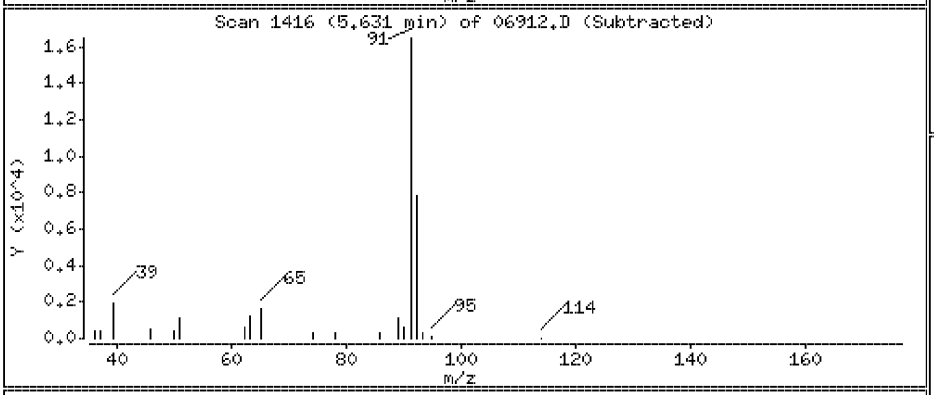
Column diameter: 0.32

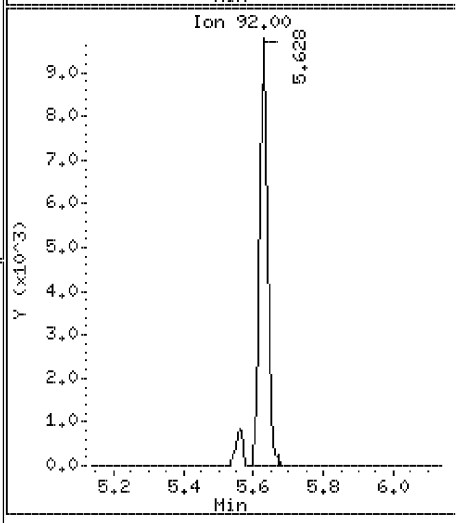
60 Toluene

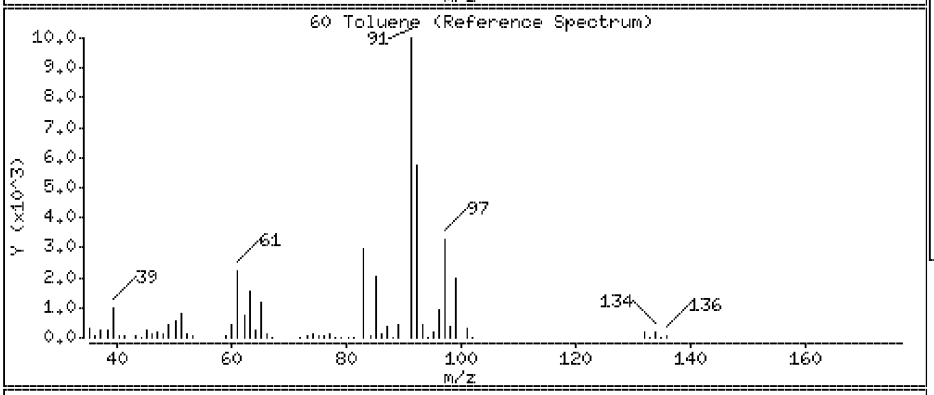
Concentration: 0.457 ppbv

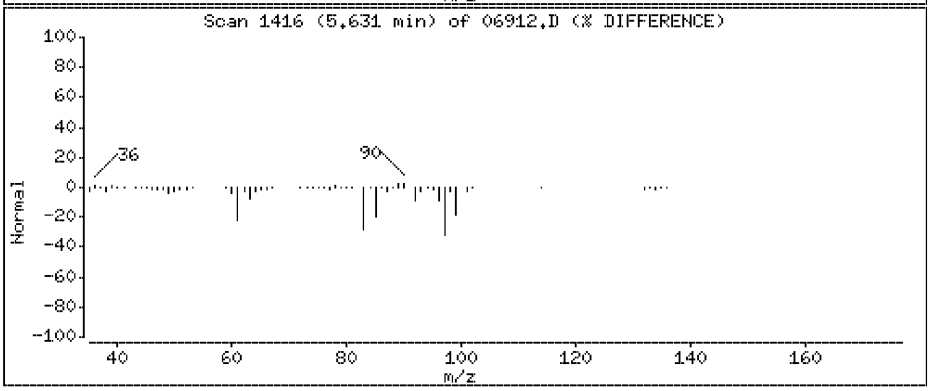












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

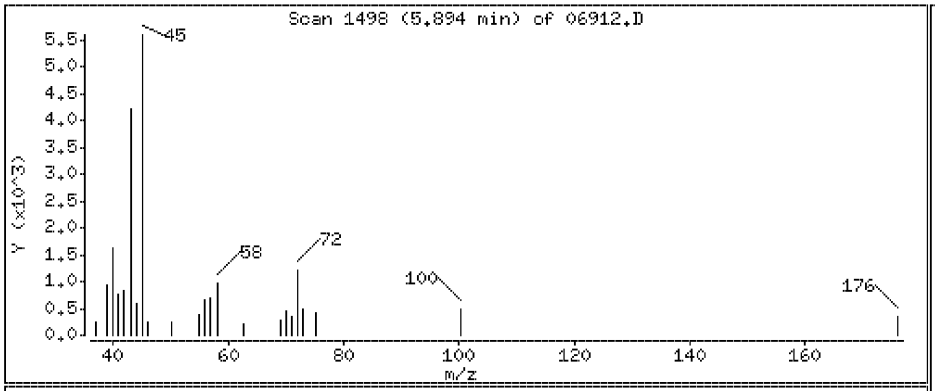
Operator: DR1

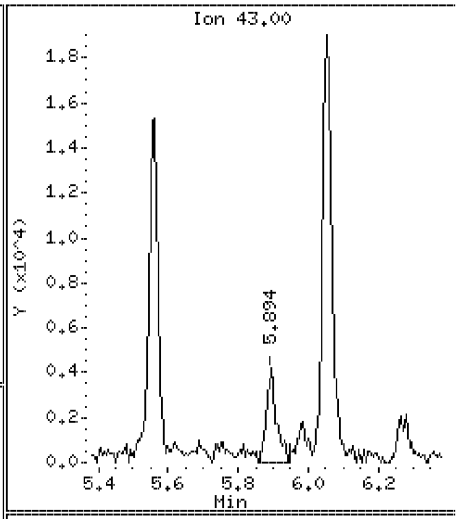
Column phase: J&W DB-5

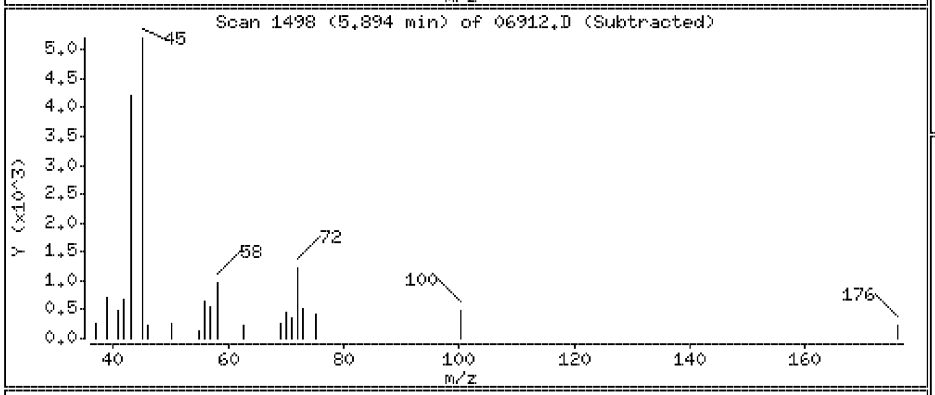
Column diameter: 0.32

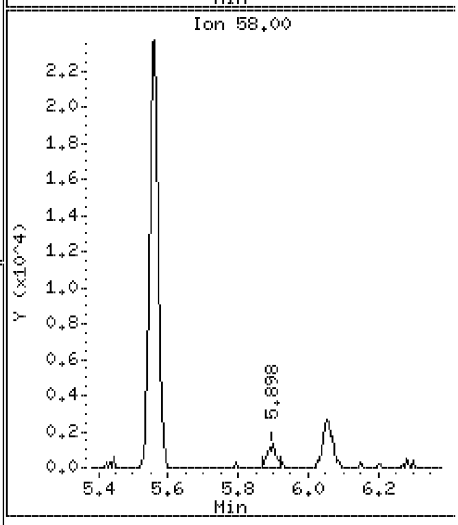
62 Methyl Butyl Ketone

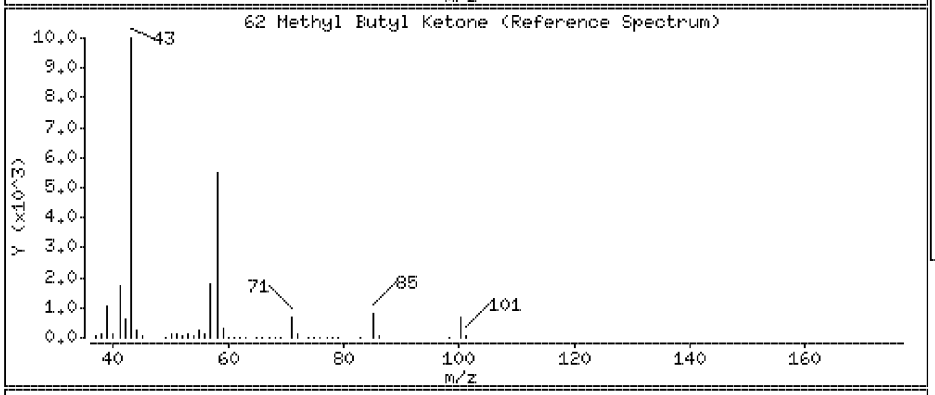
Concentration: 0.222 ppbv

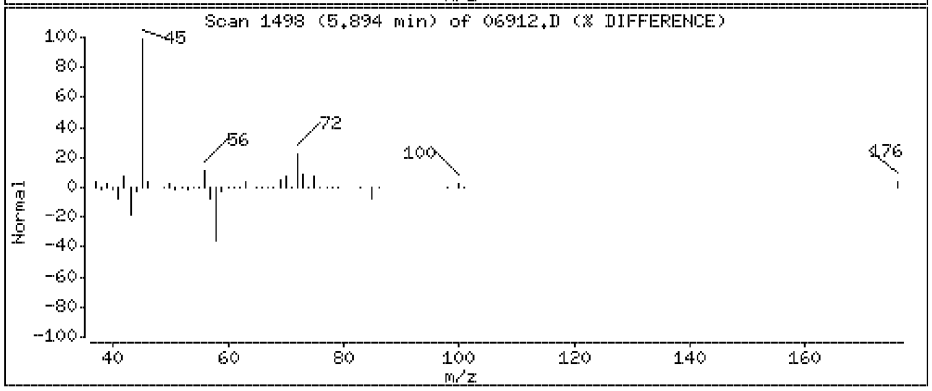












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

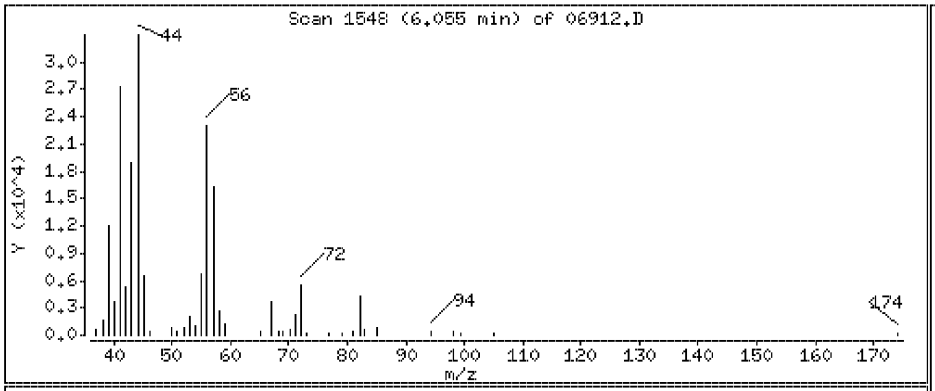
Operator: DR1

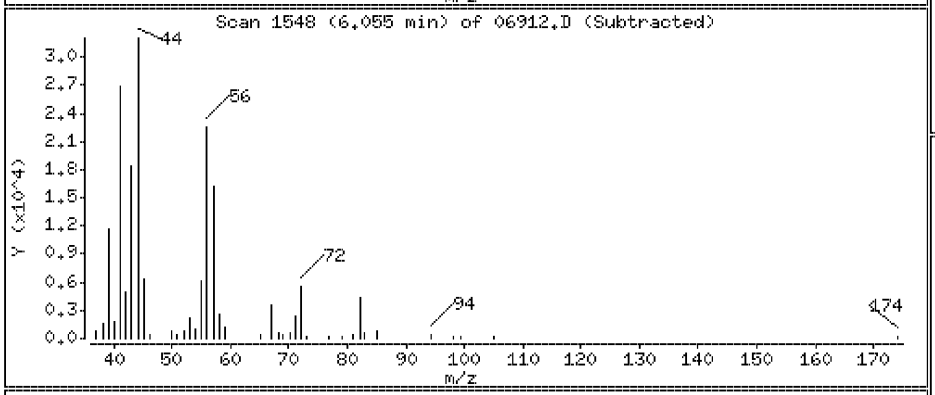
Column phase: J&W DB-5

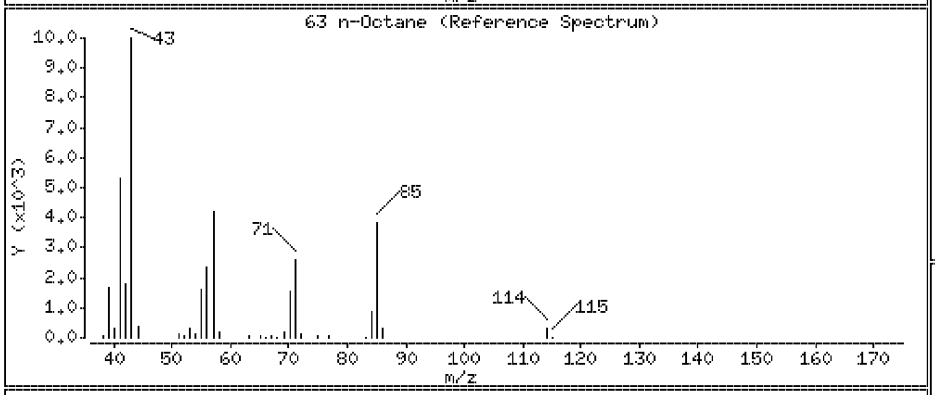
Column diameter: 0.32

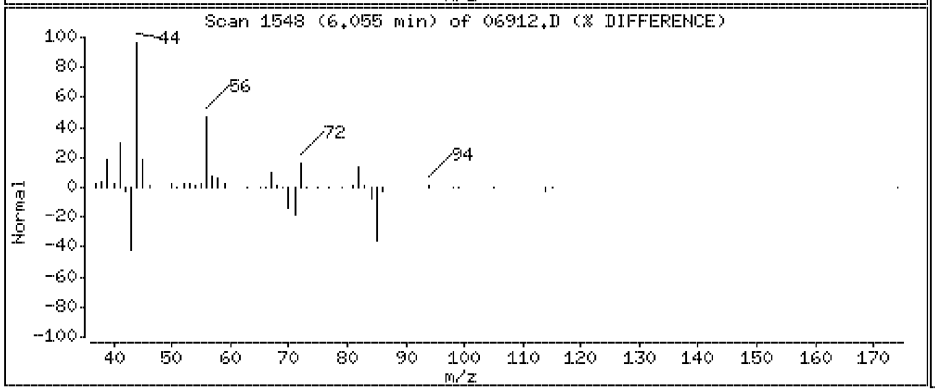
63 n-Octane

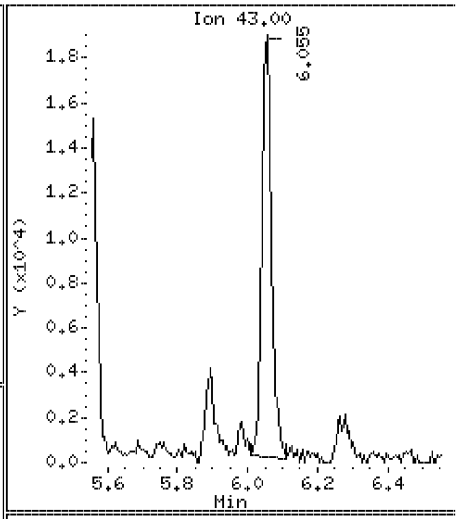
Concentration: 0.938 ppbv

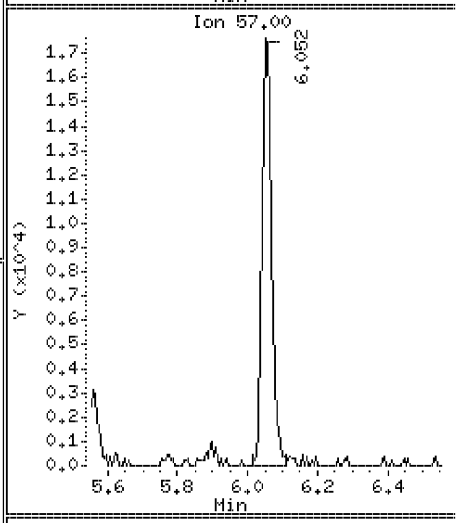


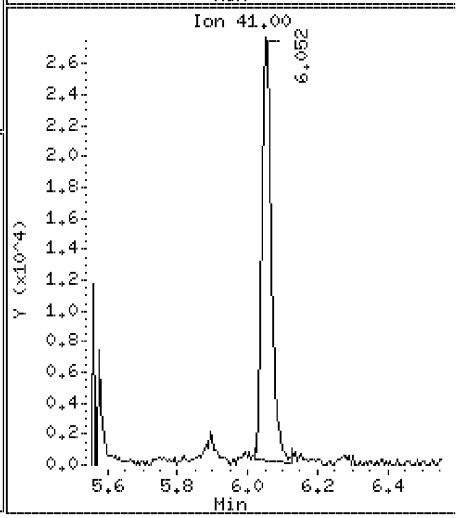












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

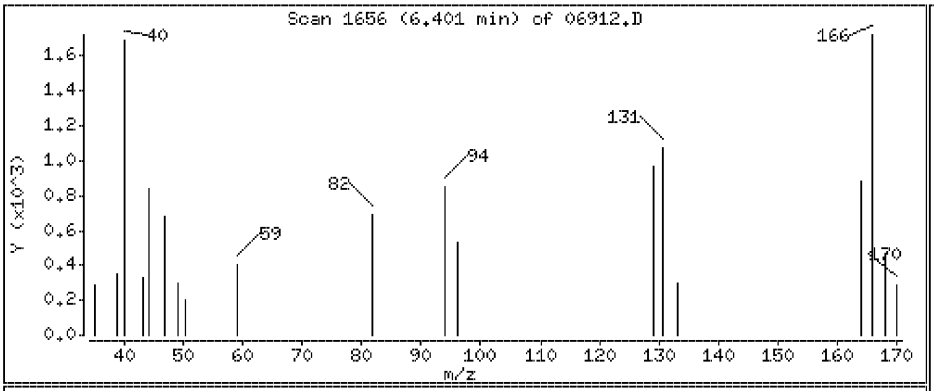
Operator: DR1

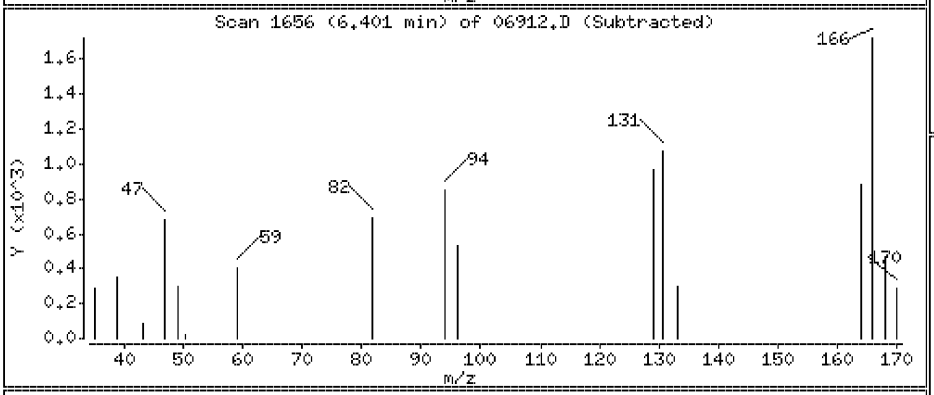
Column phase: J&W DB-5

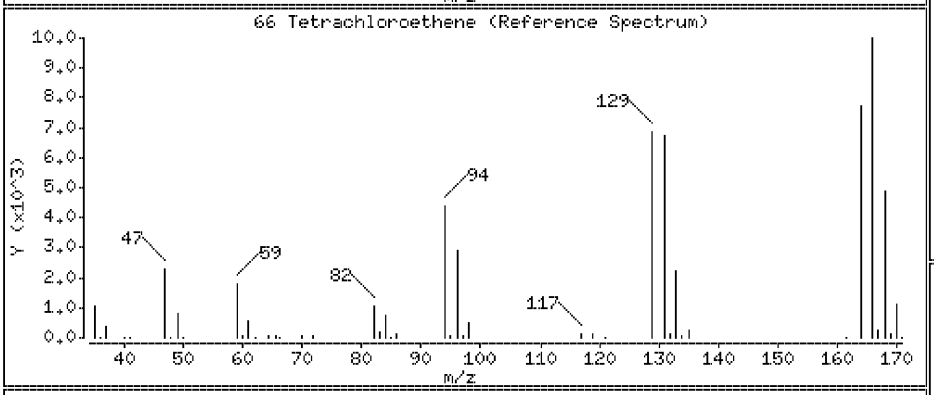
Column diameter: 0.32

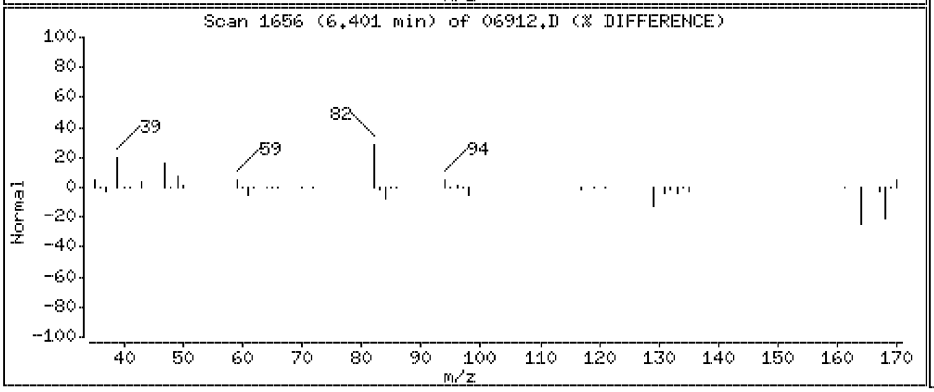
66 Tetrachloroethene

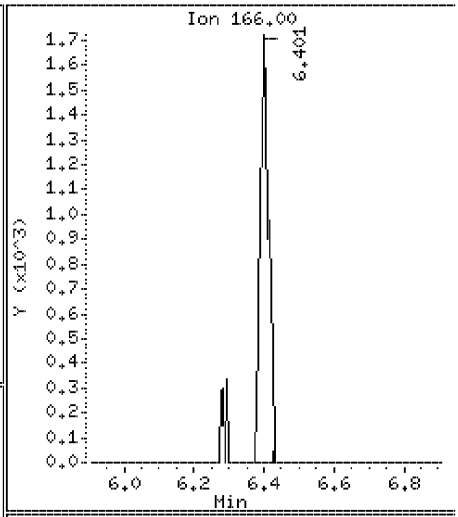
Concentration: 0.0815 ppbv

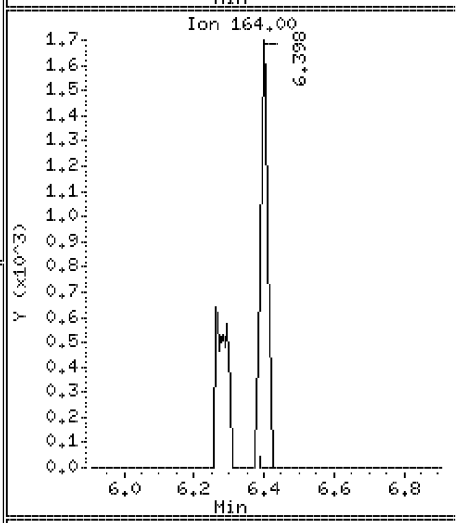


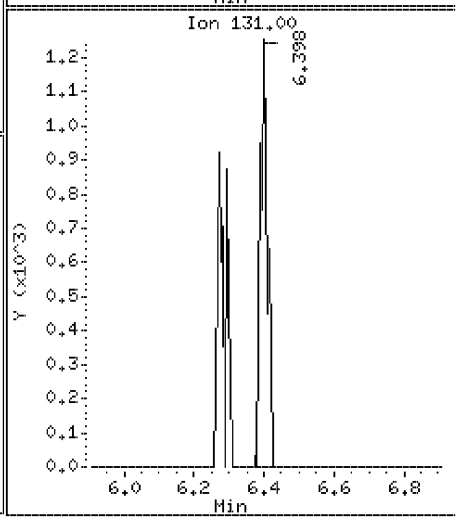












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

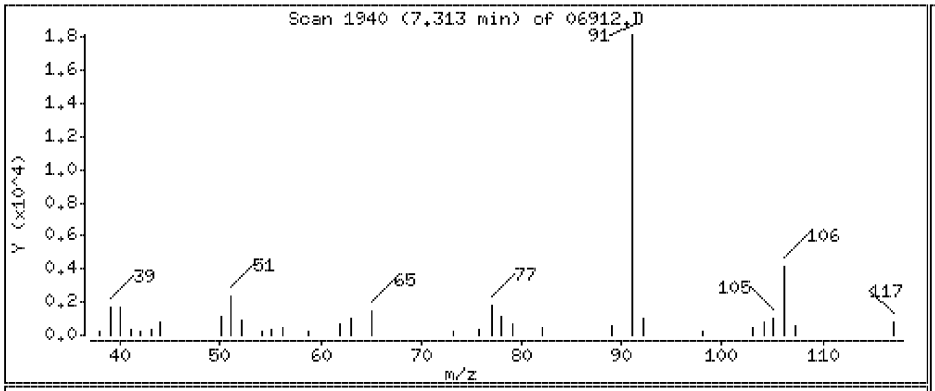
Operator: DR1

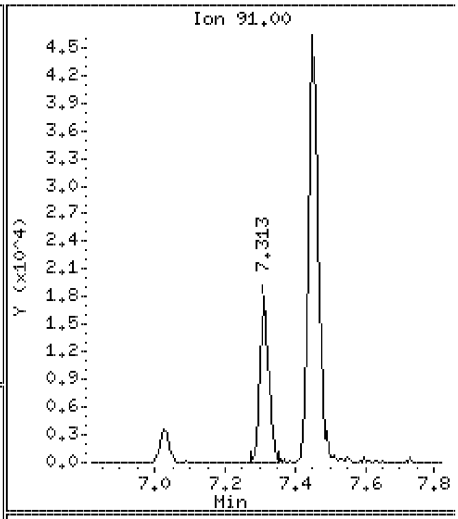
Column phase: J&W DB-5

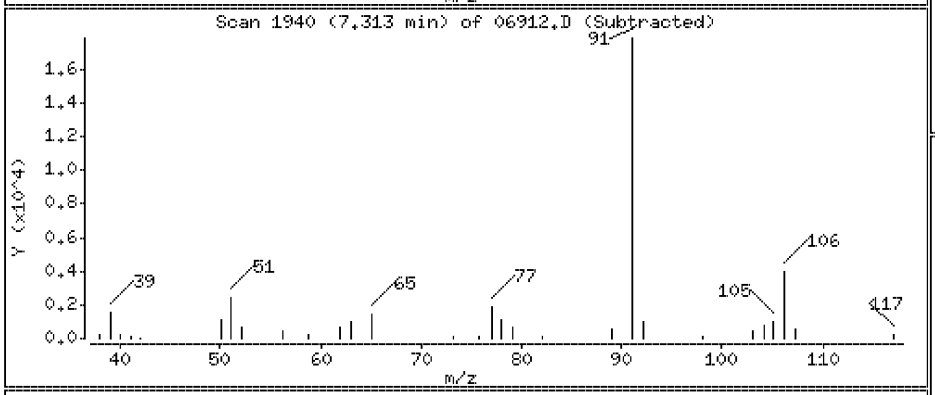
Column diameter: 0.32

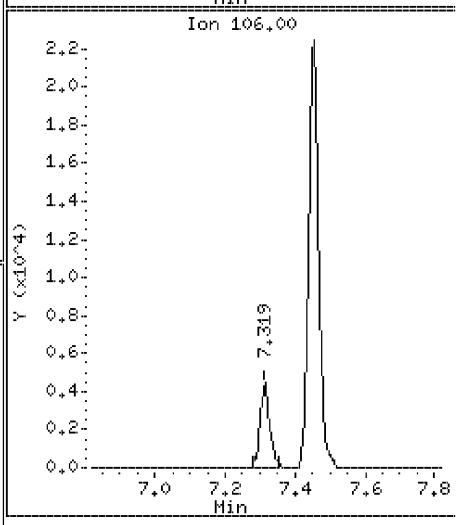
69 Ethyl Benzene

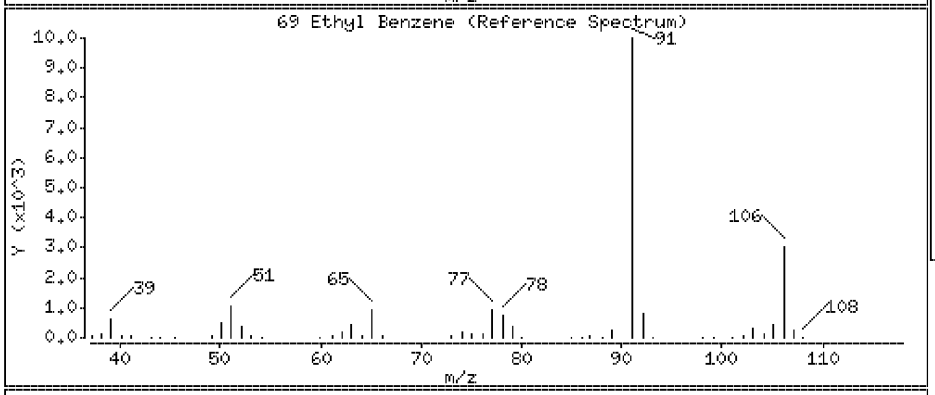
Concentration: 0.459 ppbv

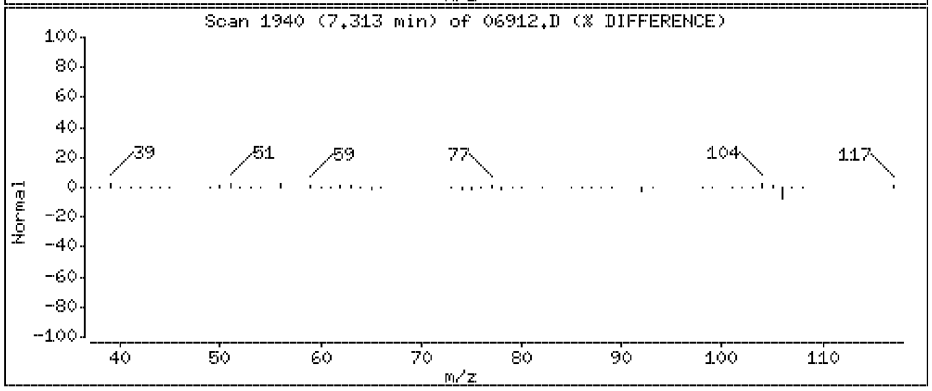












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

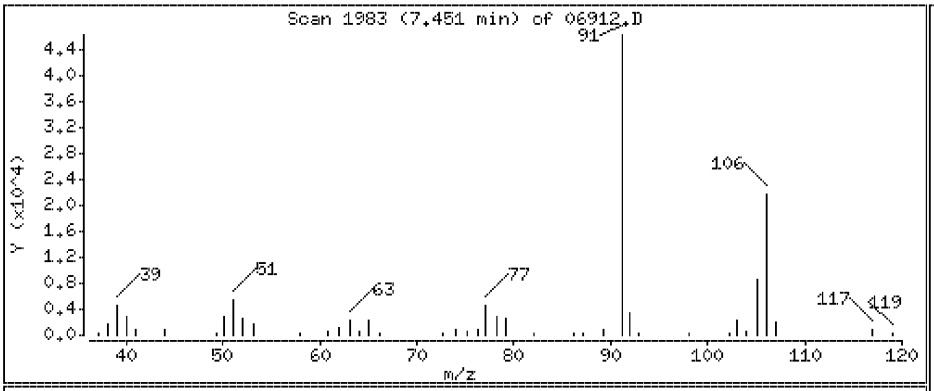
Operator: DR1

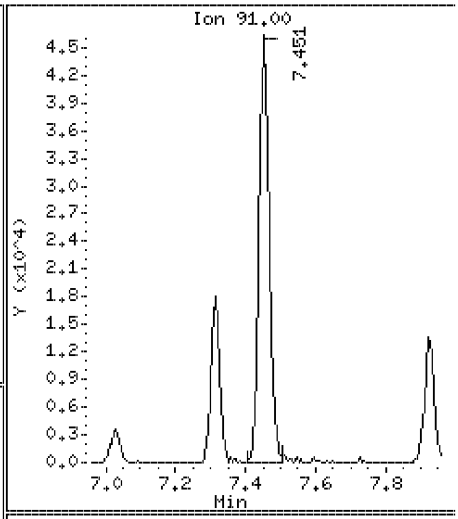
Column phase: J&W DB-5

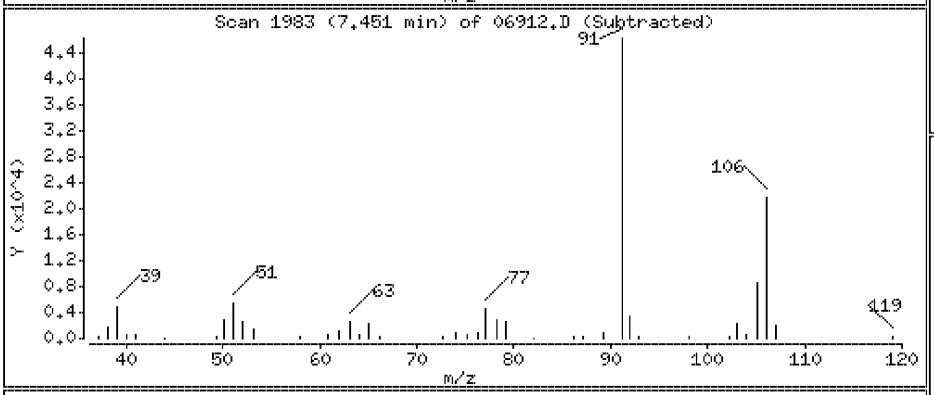
Column diameter: 0.32

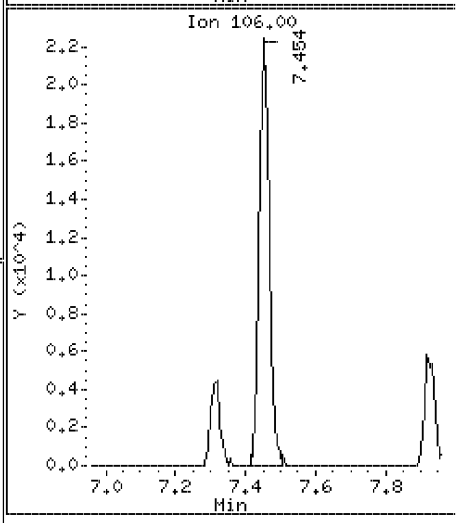
70 m&p-Xylene

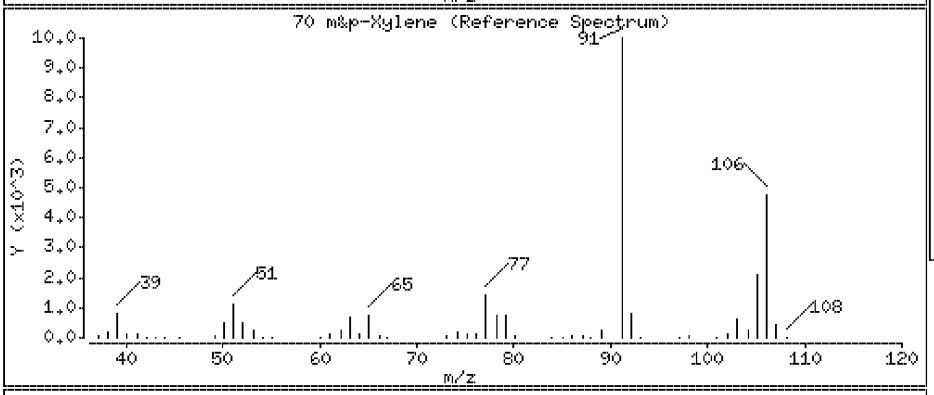
Concentration: 1.48 ppbv

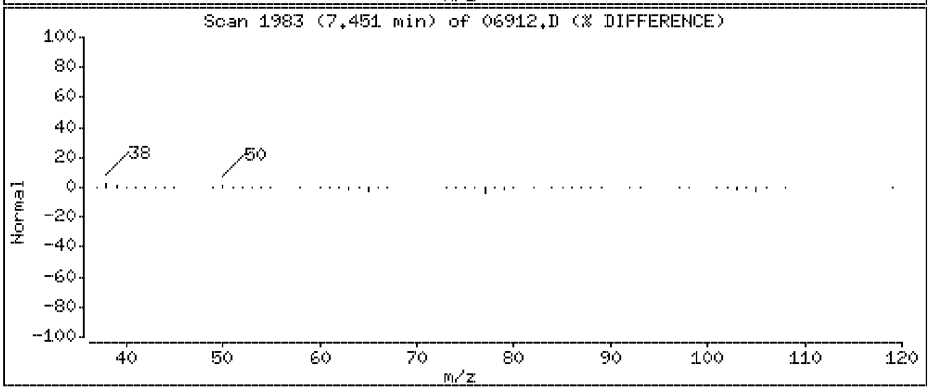












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

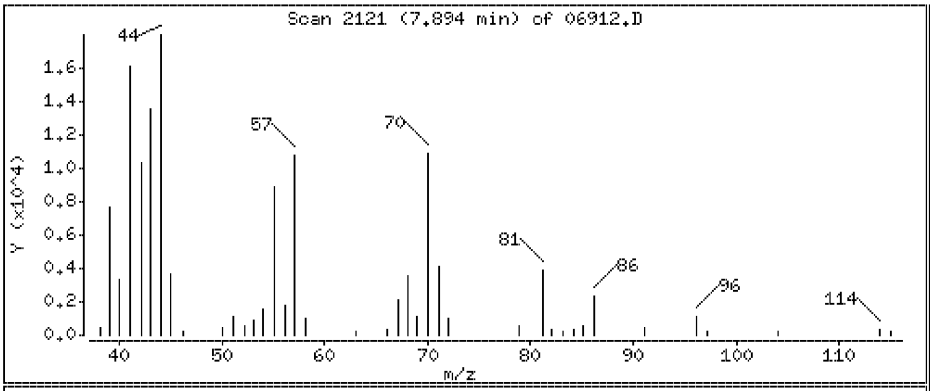
Operator: DR1

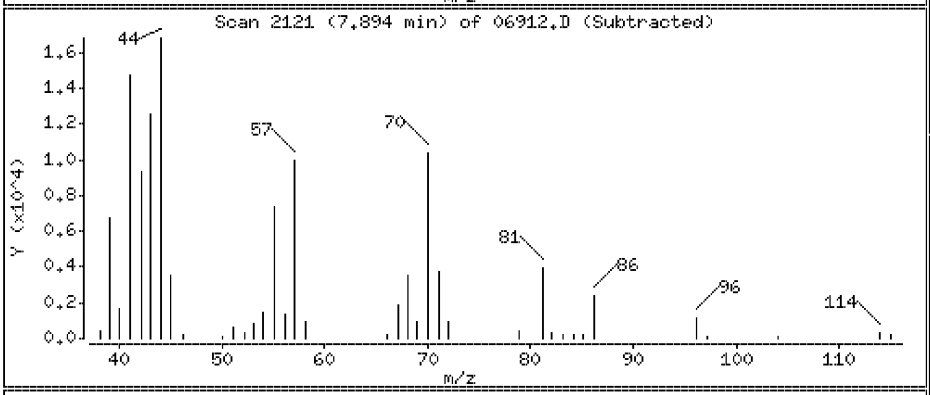
Column phase: J&W DB-5

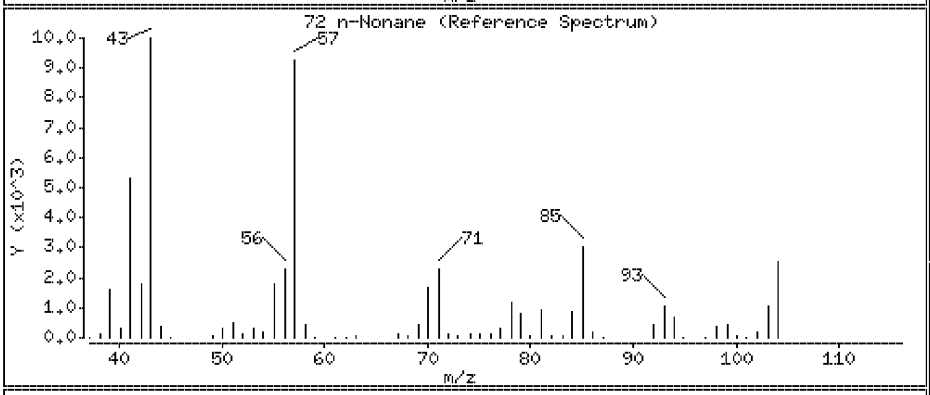
Column diameter: 0.32

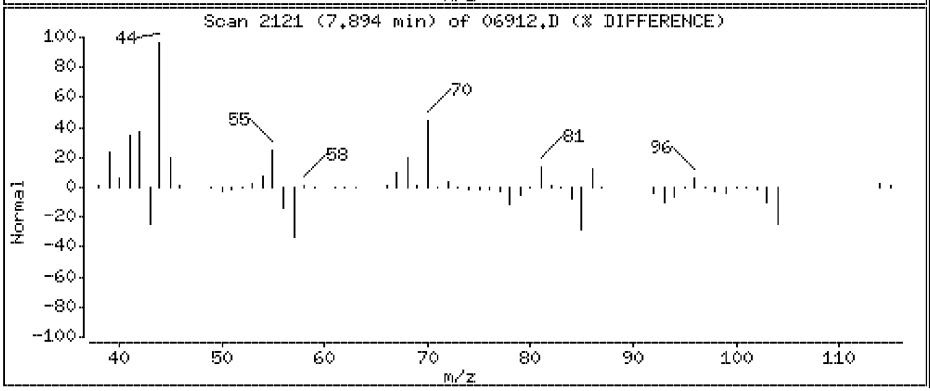
72 n-Nonane

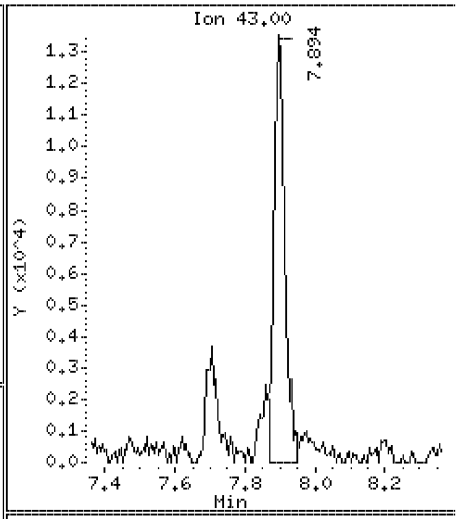
Concentration: 0.834 ppbv

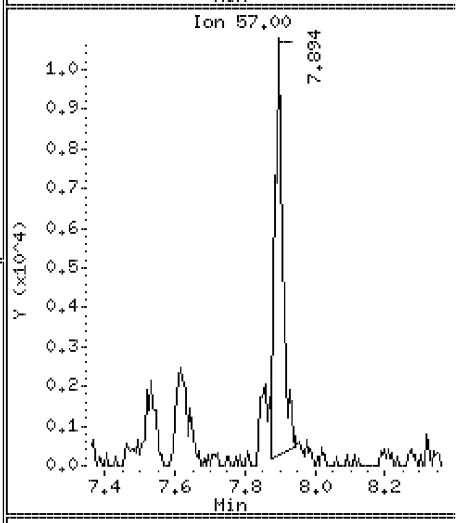


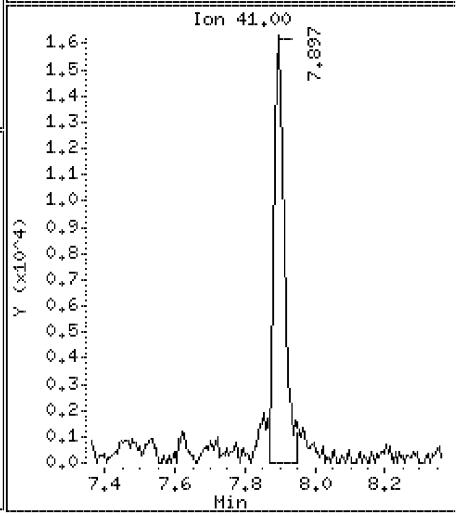












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

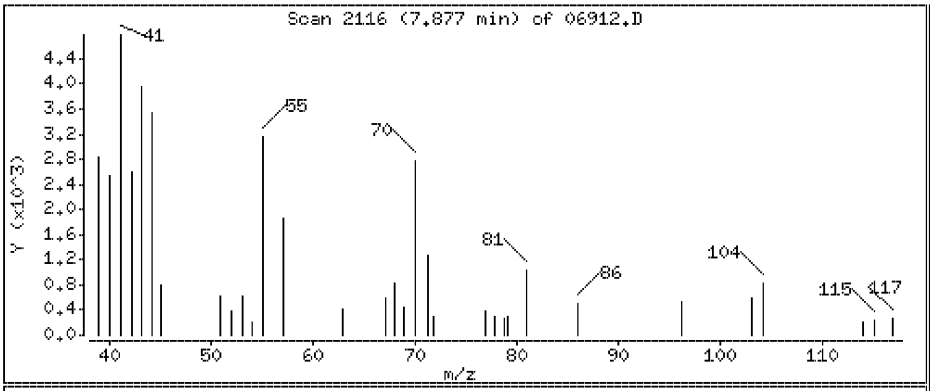
Operator: DR1

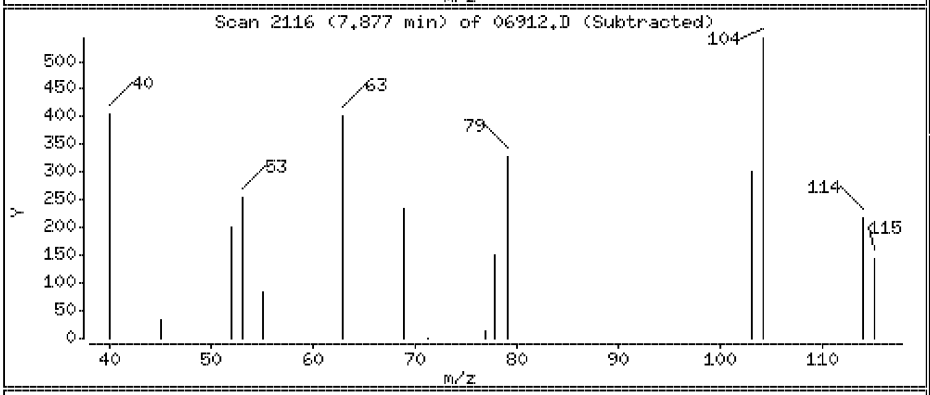
Column phase: J&W DB-5

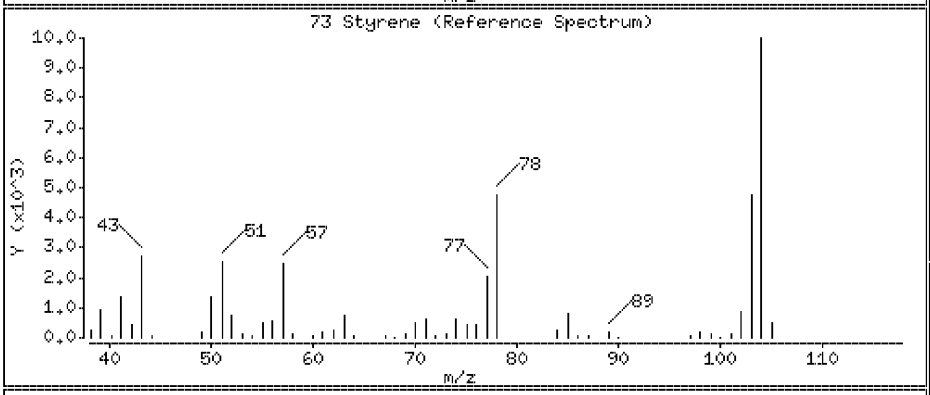
Column diameter: 0.32

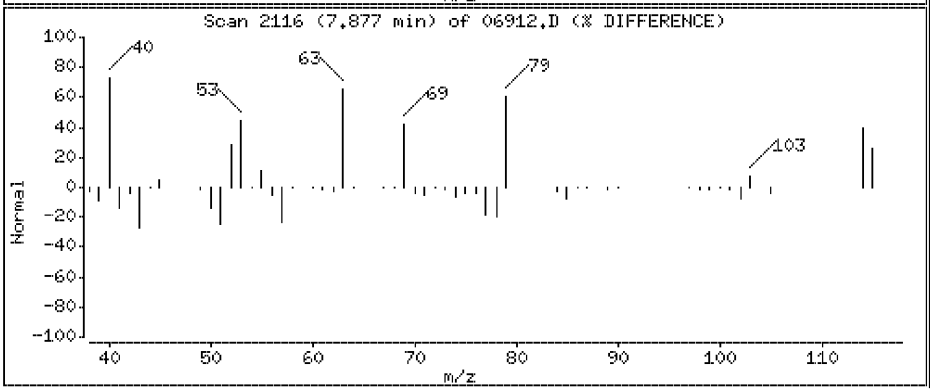
73 Styrene

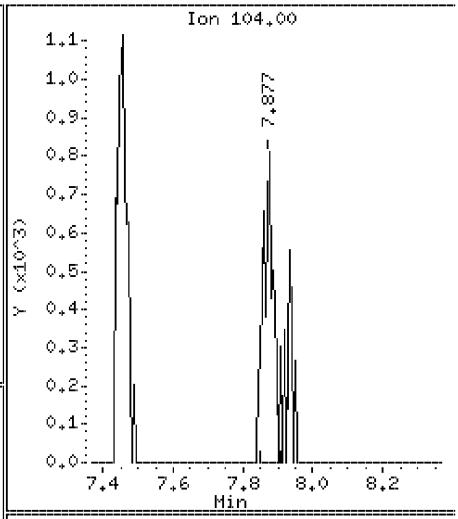
Concentration: 0.0418 ppbv

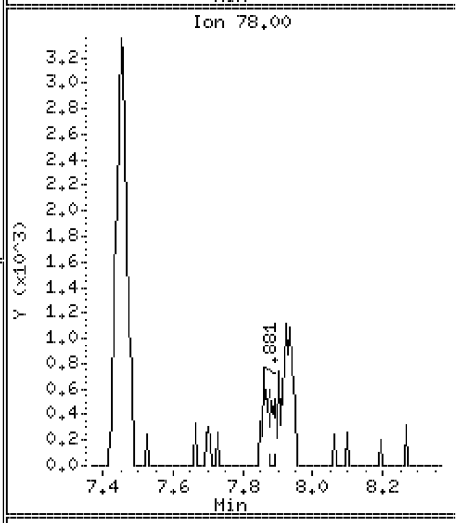


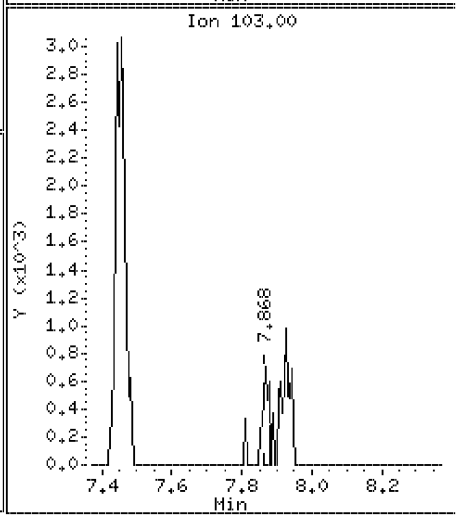












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

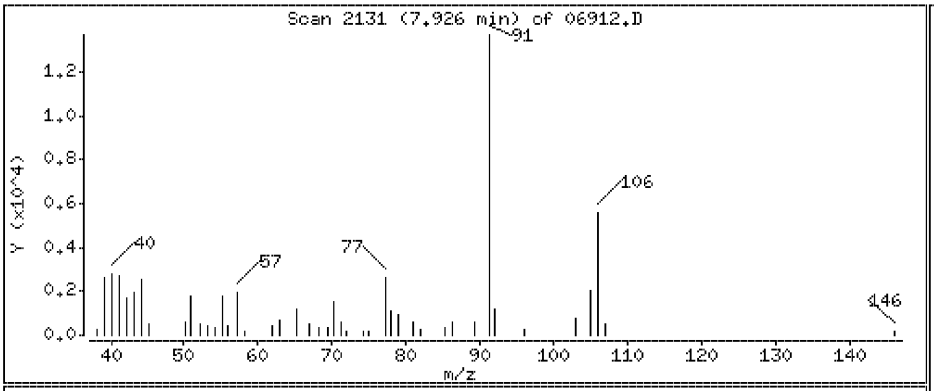
Operator: DR1

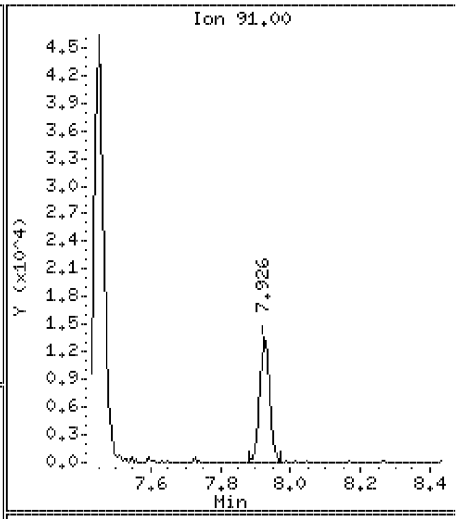
Column phase: J&W DB-5

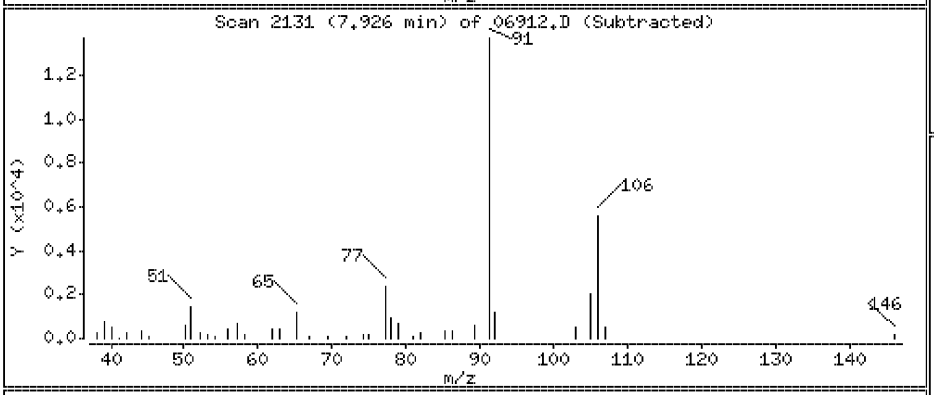
Column diameter: 0.32

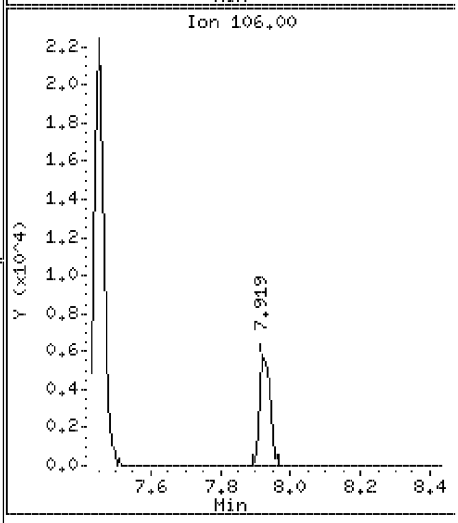
74 o-Xylene

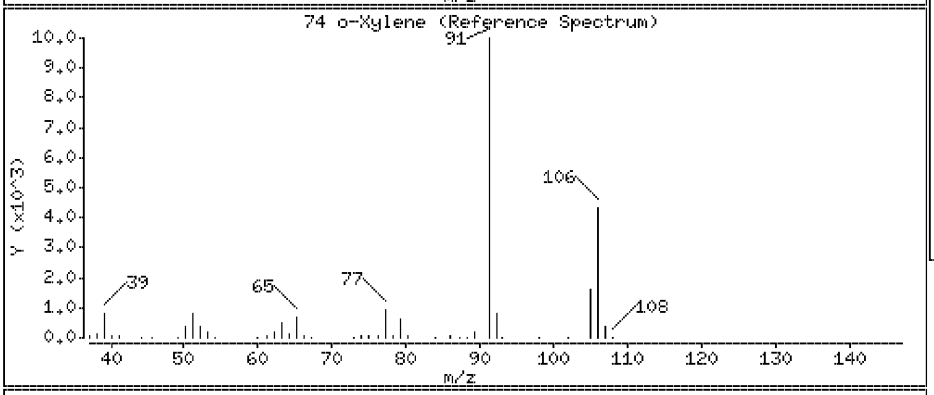
Concentration: 0.472 ppbv

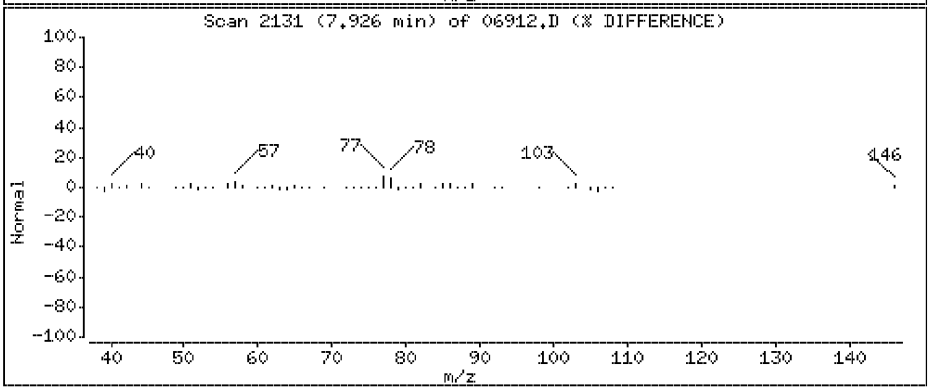












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

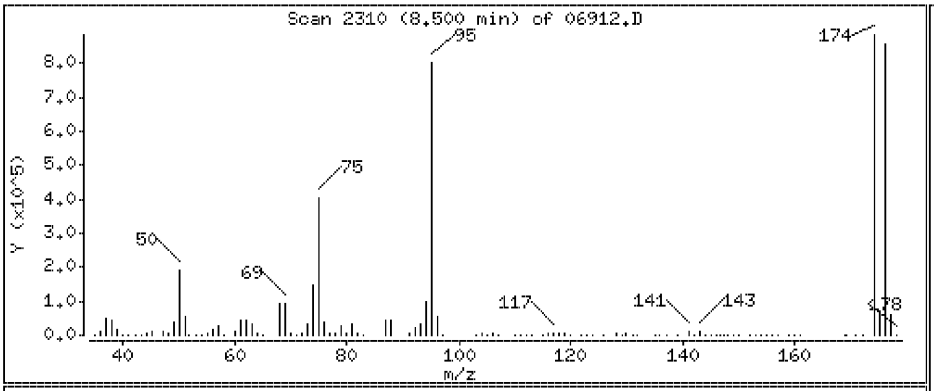
Operator: DR1

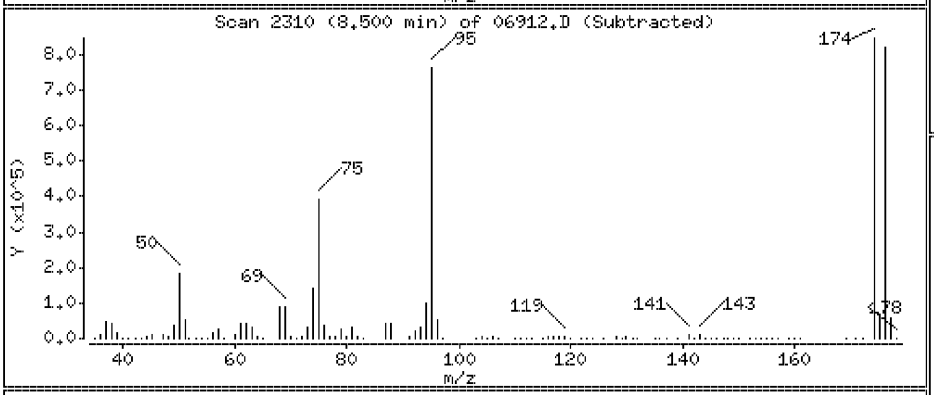
Column phase: J&W DB-5

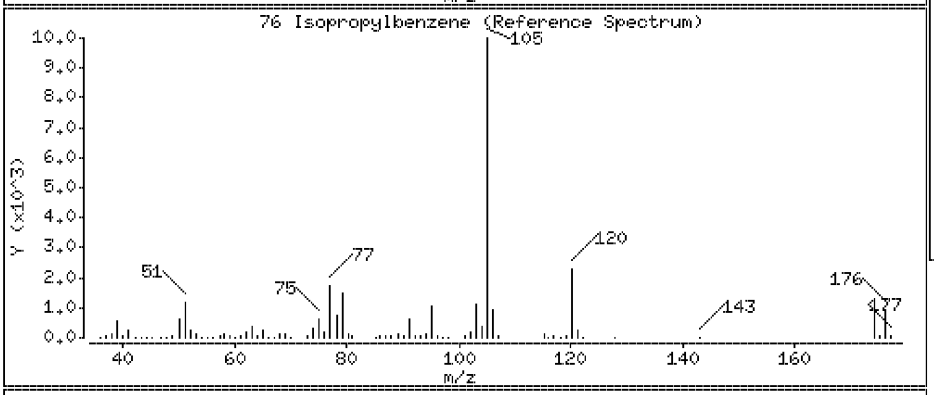
Column diameter: 0.32

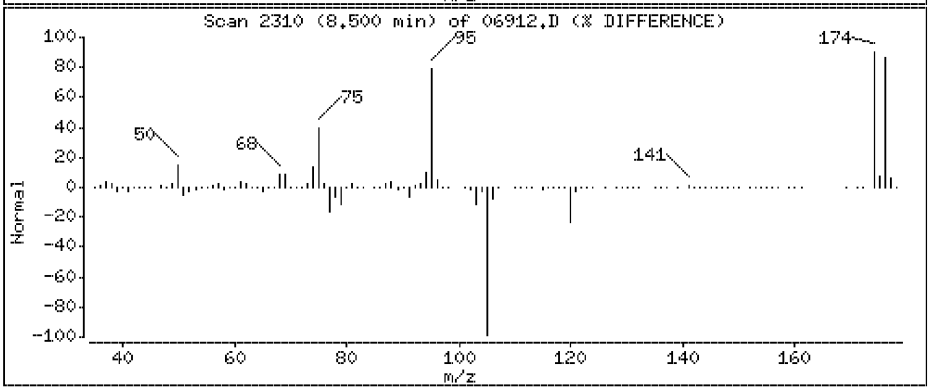
76 Isopropylbenzene

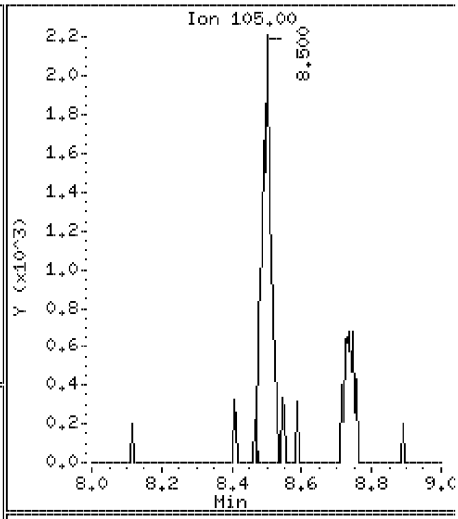
Concentration: 0.0511 ppbv

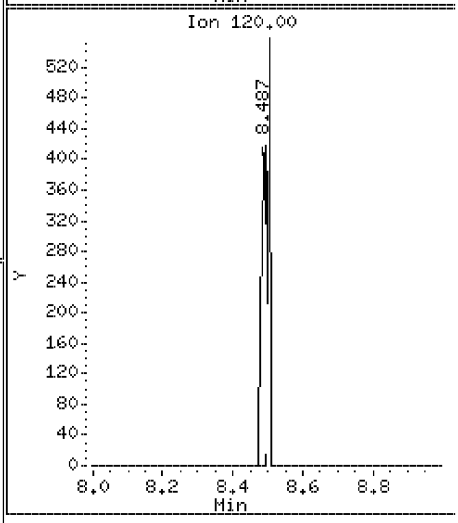












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

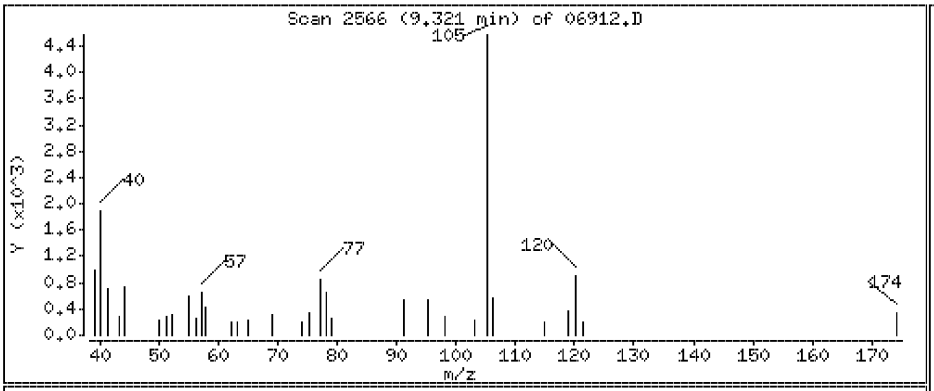
Operator: DR1

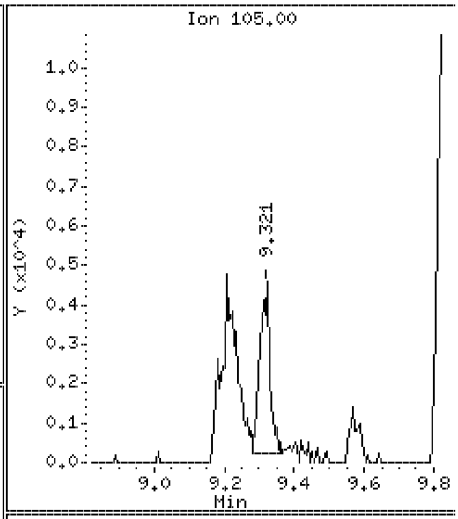
Column phase: J&W DB-5

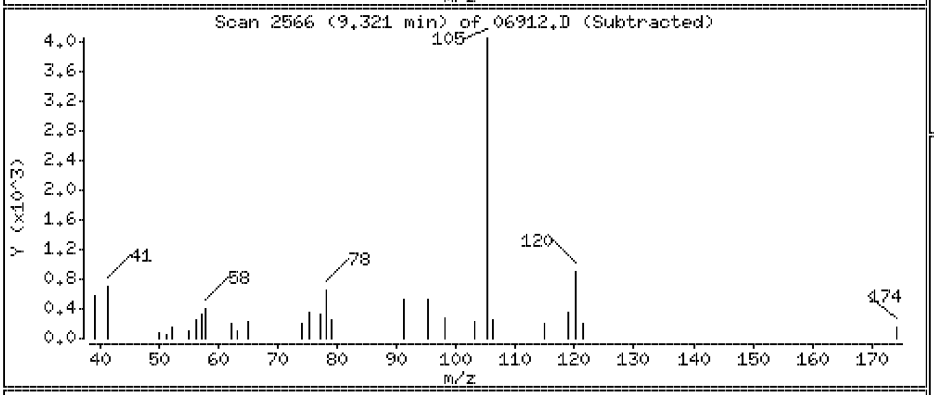
Column diameter: 0.32

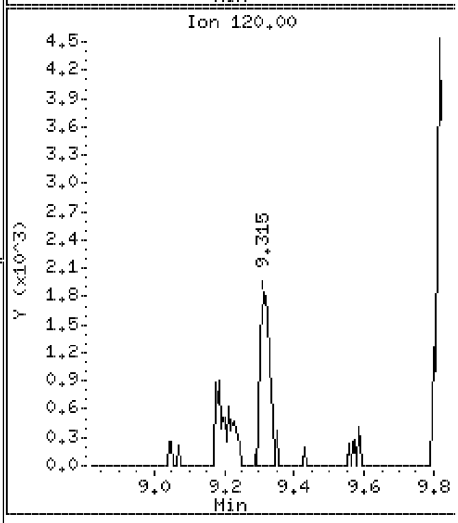
79 1,3,5-Trimethylbenzene

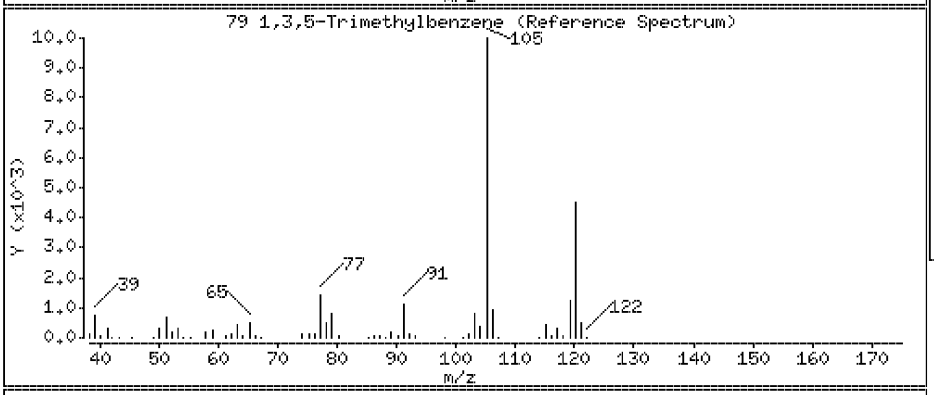
Concentration: 0.0828 ppbv

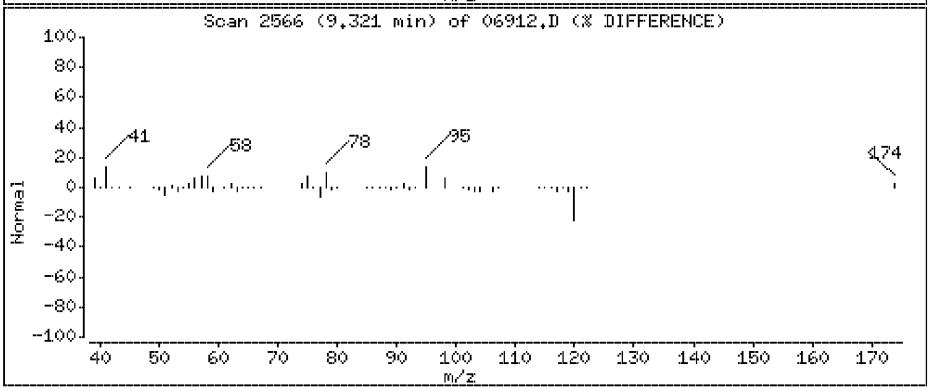












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

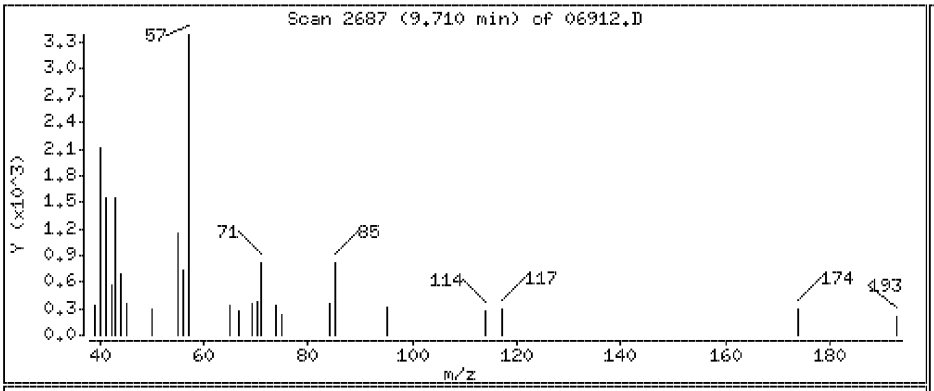
Operator: DR1

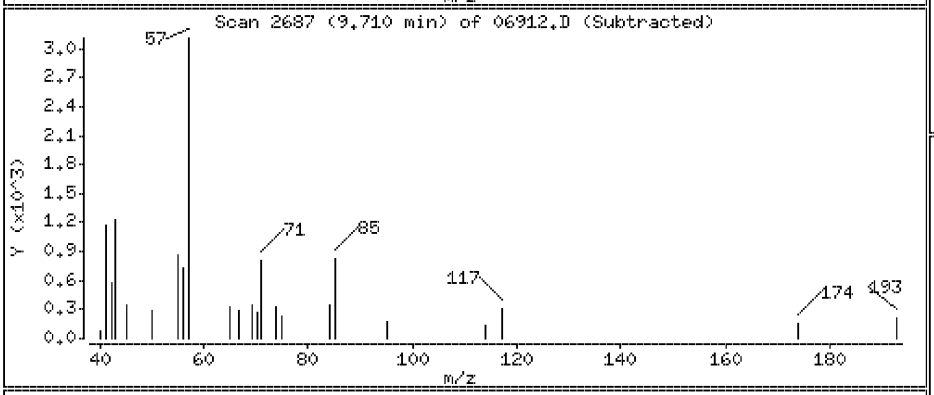
Column phase: J&W DB-5

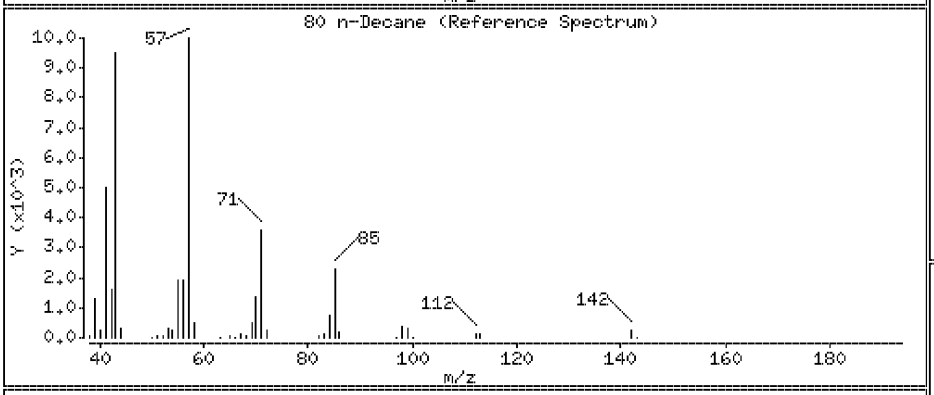
Column diameter: 0.32

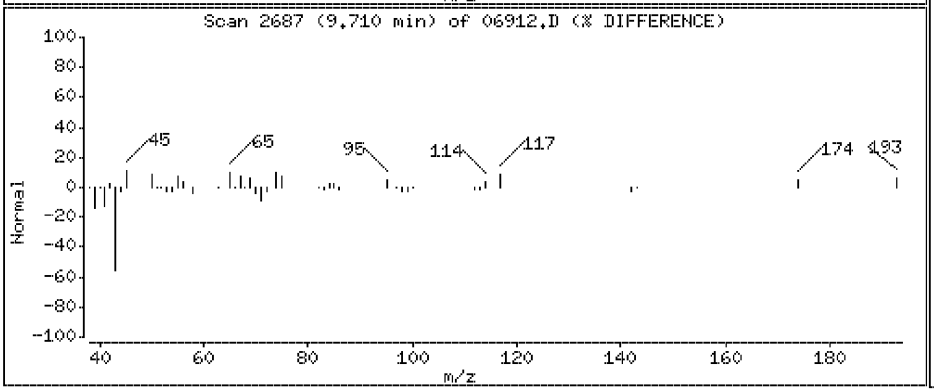
80 n-Decane

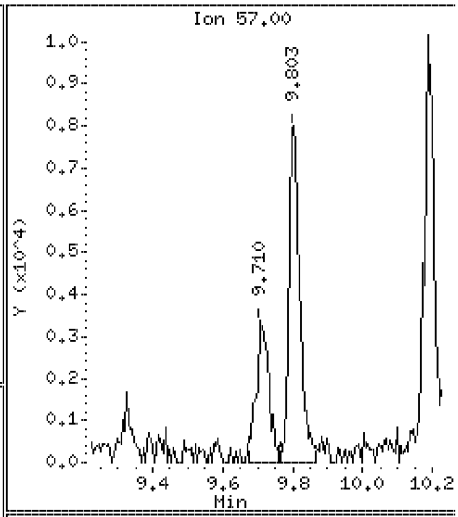
Concentration: 0.255 ppbv

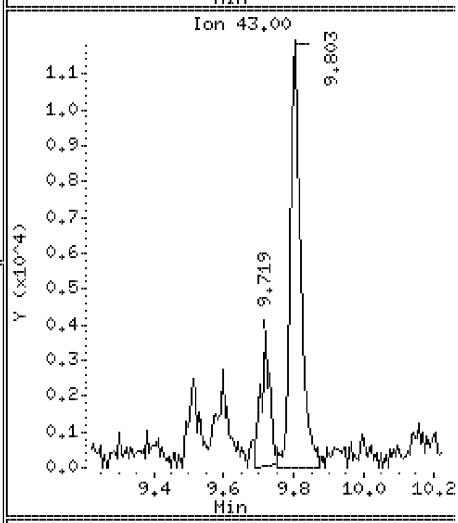


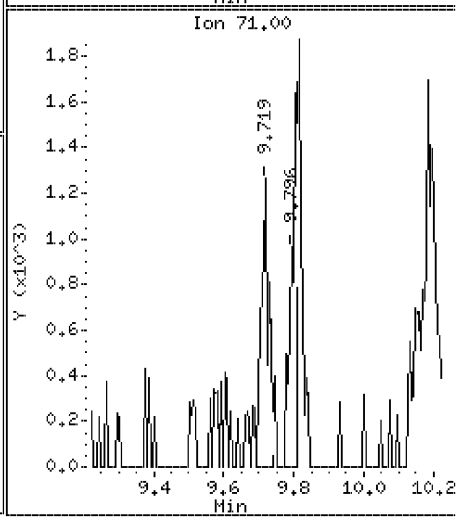












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

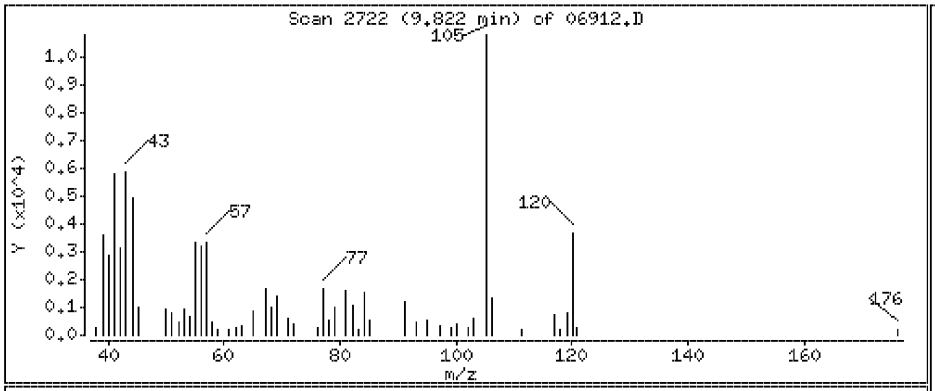
Operator: DR1

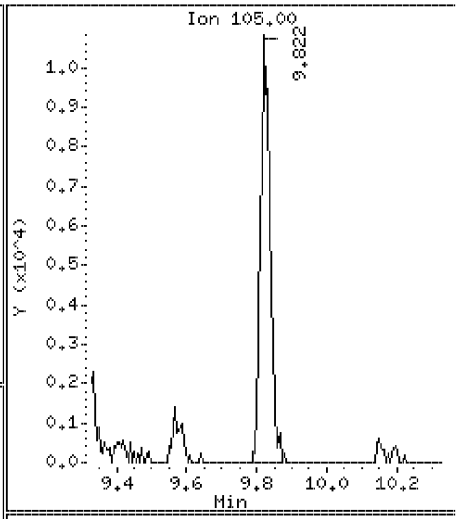
Column phase: J&W DB-5

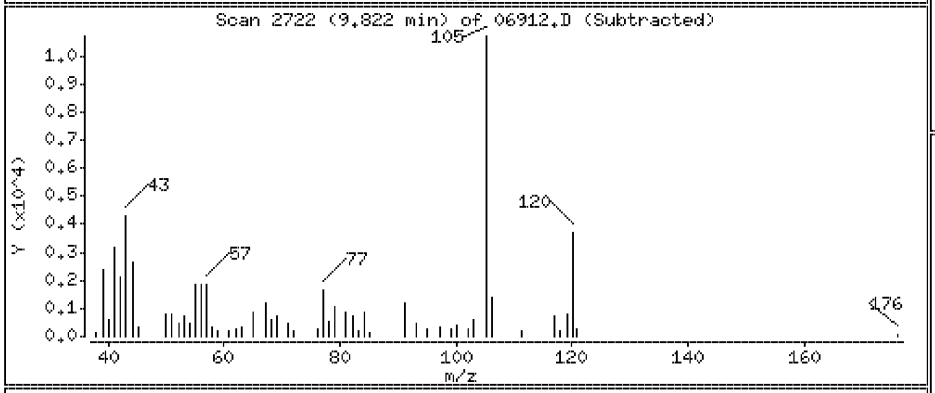
Column diameter: 0.32

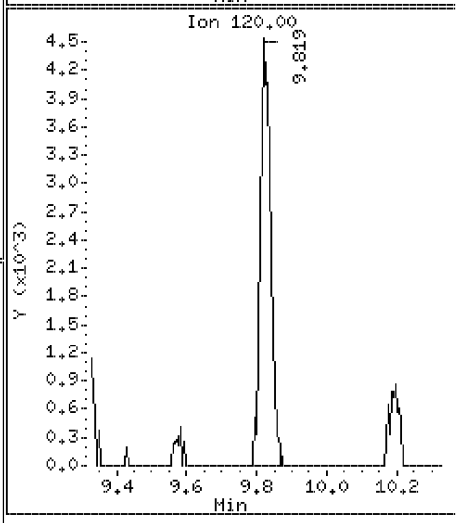
82 1,2,4-Trimethylbenzene

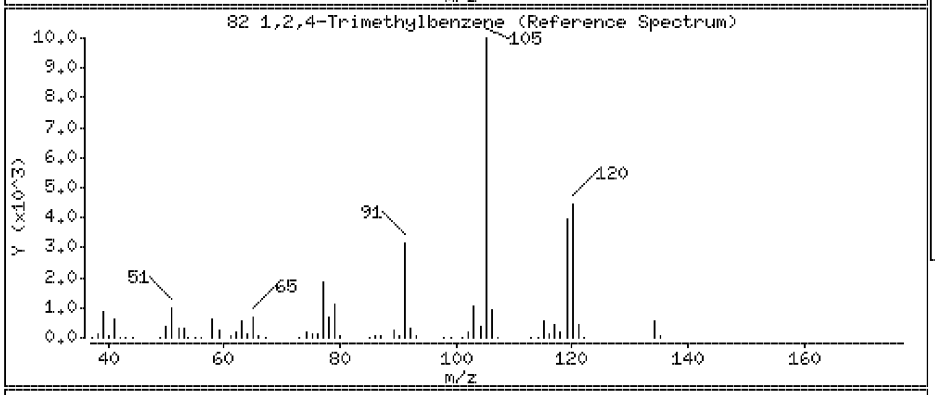
Concentration: 0.191 ppbv

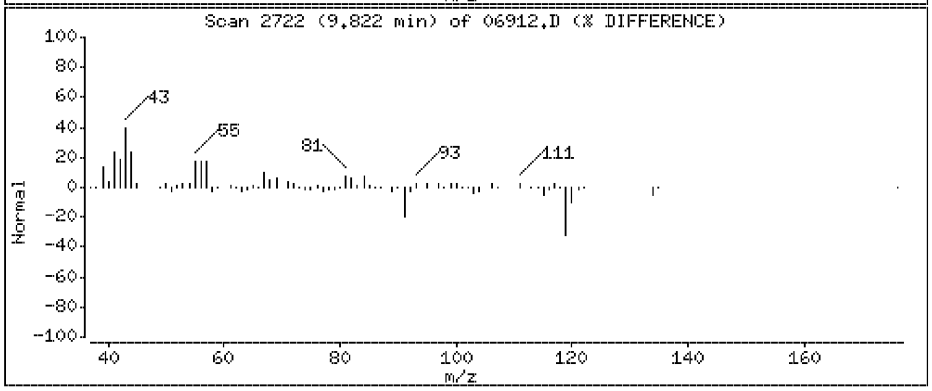












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06912.D

Date : 10-MAR-2017 20:12

Client ID:

Instrument: 10airD.i

Sample Info:

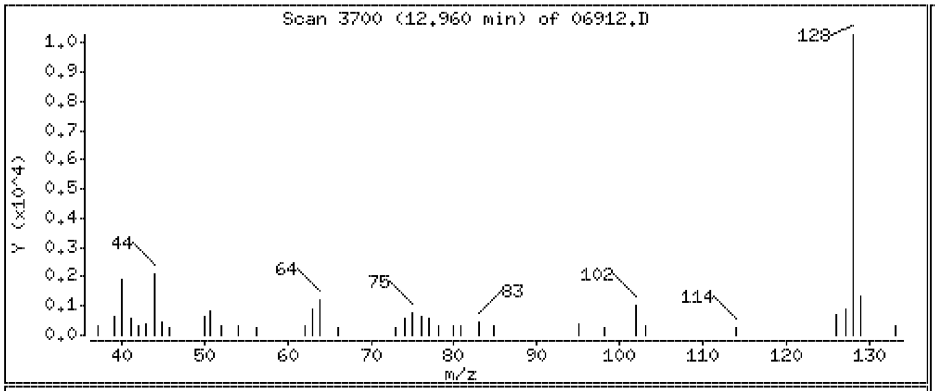
Operator: DR1

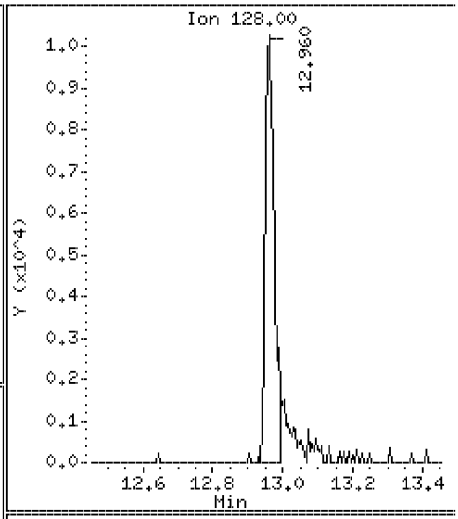
Column phase: J&W DB-5

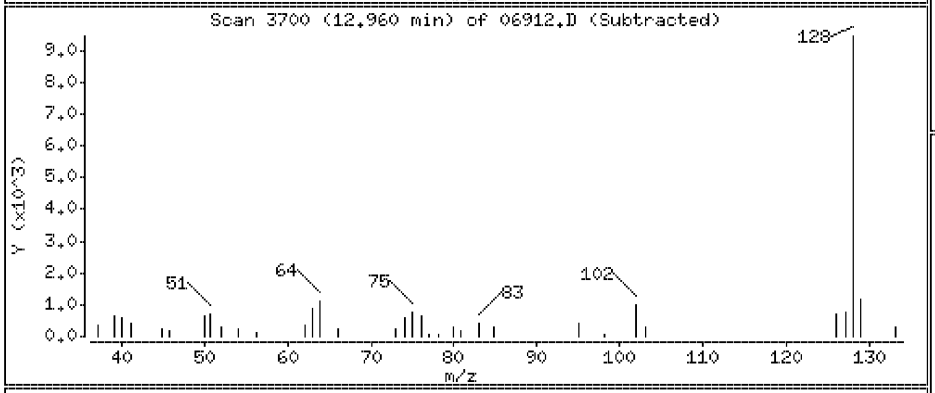
Column diameter: 0.32

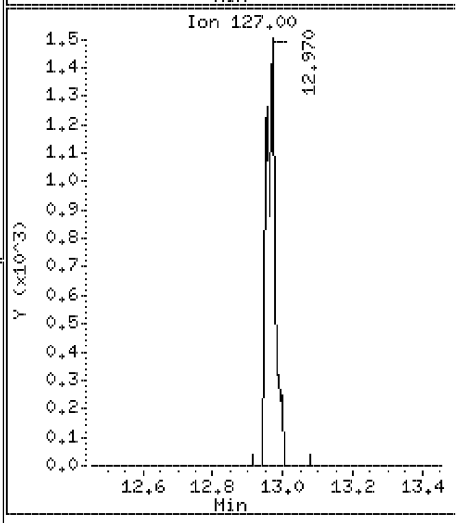
94 Naphthalene

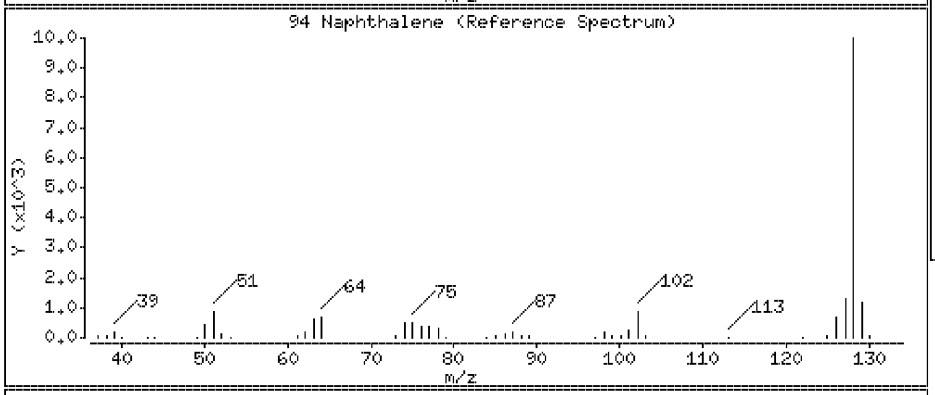
Concentration: 1.11 ppbv

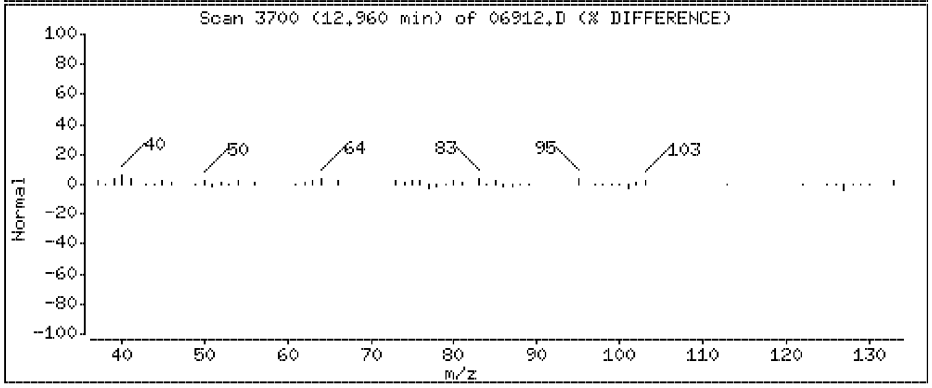






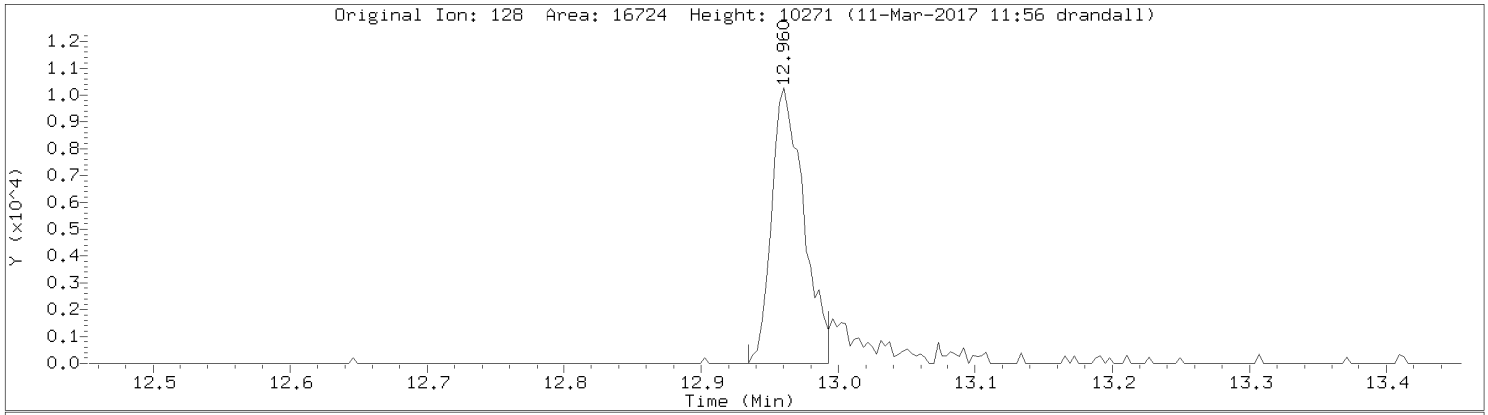


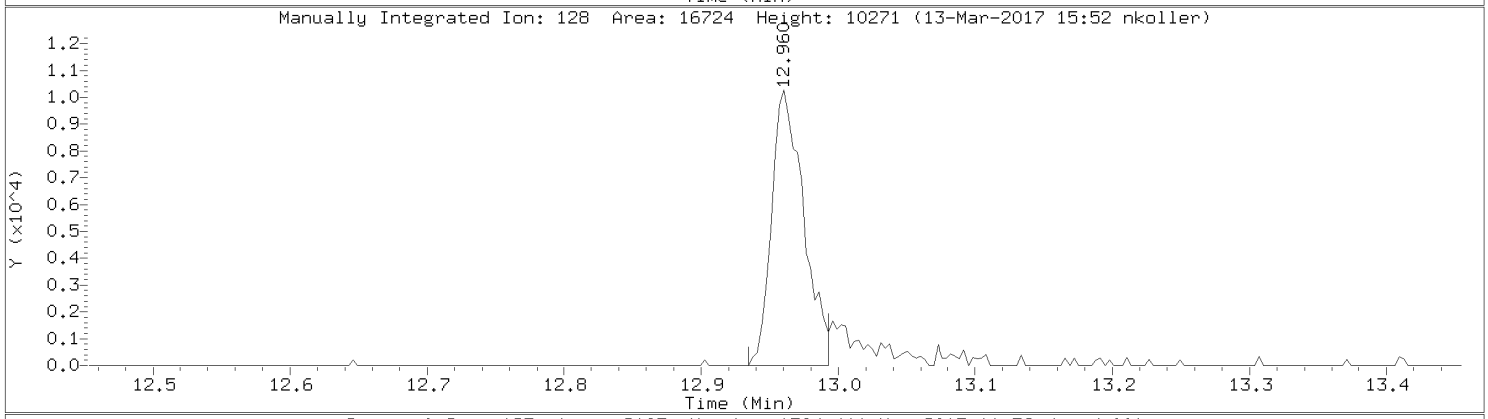


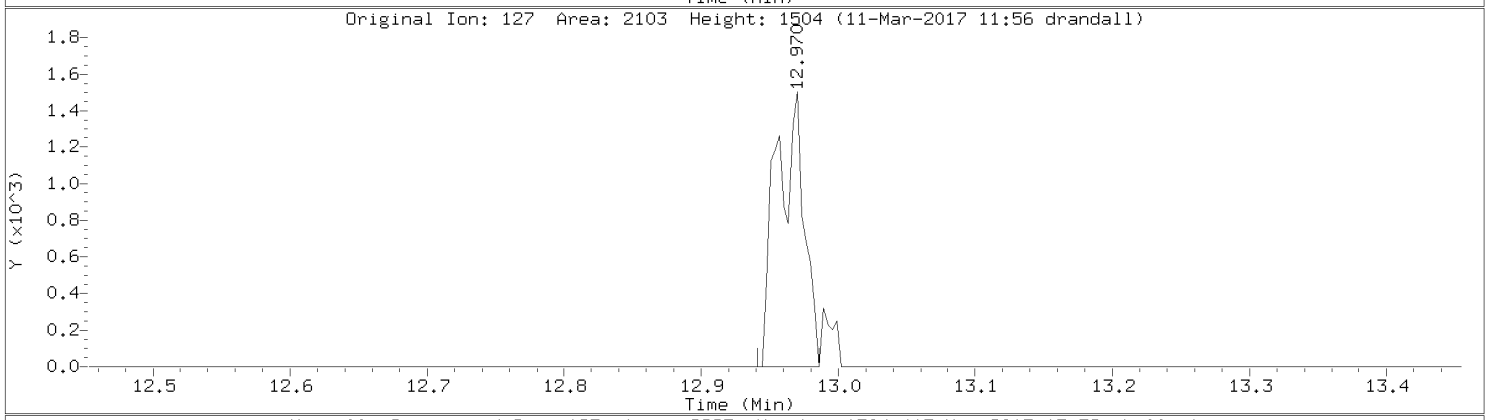


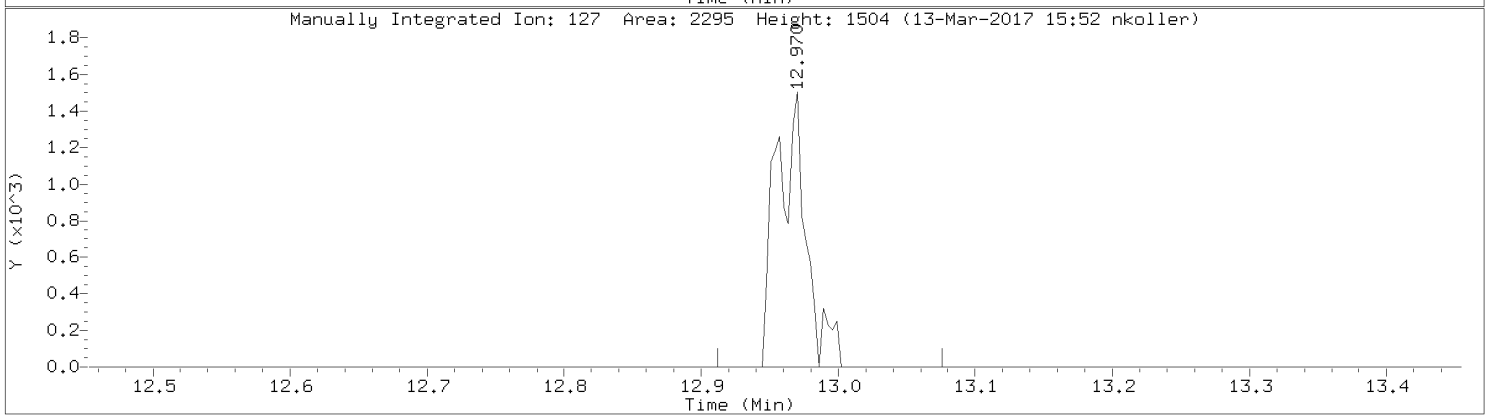
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06912.d
Injection Date: 10-MAR-2017 20:12
Instrument: 10airD.i
Lab Sample ID: 10380372006

Compound: Naphthalene
CAS Number: 91-20-3









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_5_20170226 **Lab ID: 10380372007** Collected: 02/26/17 12:09 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**182**	ug/m3	11.0	1.5	1.83		03/10/17 20:42	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/10/17 20:42	107-05-1	
Benzene	**1.9**	ug/m3	0.59	0.22	1.83		03/10/17 20:42	71-43-2	
Bromodichloromethane	**0.36U**	ug/m3	2.5	0.36	1.83		03/10/17 20:42	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/10/17 20:42	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/10/17 20:42	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/10/17 20:42	106-99-0	
2-Butanone (MEK)	**2.7J**	ug/m3	5.5	0.42	1.83		03/10/17 20:42	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/10/17 20:42	75-15-0	
Carbon tetrachloride	**0.35U**	ug/m3	1.2	0.35	1.83		03/10/17 20:42	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/10/17 20:42	108-90-7	
Chlorodifluoromethane	**12.2**	ug/m3	1.3	0.51	1.83		03/10/17 20:42	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/10/17 20:42	75-00-3	
Chloroform	**0.35U**	ug/m3	0.91	0.35	1.83		03/10/17 20:42	67-66-3	
Chloromethane	**1.9**	ug/m3	0.77	0.20	1.83		03/10/17 20:42	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/10/17 20:42	76-15-3	
Cyclohexane	**1.3**	ug/m3	1.3	0.58	1.83		03/10/17 20:42	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/10/17 20:42	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/10/17 20:42	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/10/17 20:42	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/10/17 20:42	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/10/17 20:42	541-73-1	
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/10/17 20:42	106-46-7	
Dichlorodifluoromethane	**4.8**	ug/m3	1.8	0.88	1.83		03/10/17 20:42	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/10/17 20:42	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/10/17 20:42	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 20:42	75-35-4	
cis-1,2-Dichloroethene	**0.45U**	ug/m3	1.5	0.45	1.83		03/10/17 20:42	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/10/17 20:42	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/10/17 20:42	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/10/17 20:42	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/10/17 20:42	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/10/17 20:42	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/10/17 20:42	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/10/17 20:42	123-91-1	
Ethylbenzene	**1.0J**	ug/m3	1.6	0.78	1.83		03/10/17 20:42	100-41-4	
4-Ethyltoluene	**0.61J**	ug/m3	1.8	0.34	1.83		03/10/17 20:42	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/10/17 20:42	87-68-3	
n-Hexane	**20.0**	ug/m3	1.3	0.65	1.83		03/11/17 14:44	110-54-3	
2-Hexanone	**0.75U**	ug/m3	7.6	0.75	1.83		03/10/17 20:42	591-78-6	
Isopropylbenzene (Cumene)	**0.38J**	ug/m3	4.6	0.25	1.83		03/10/17 20:42	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/10/17 20:42	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 20:42	108-87-2	
Methylene Chloride	**252**	ug/m3	6.5	0.99	1.83		03/11/17 14:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/10/17 20:42	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/10/17 20:42	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.d
Report Date: 13-Mar-2017 15:53

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06913.d
Lab Smp Id: 10380372007
Inj Date : 10-MAR-2017 20:42
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 13
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	2.110	2.114	(0.498)	4090	0.25301	0.463(Q)	
3	Chlorodifluoromethane	67	2.123	2.123	(0.501)	14864	1.85466	3.39(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.149	(0.507)	37985	0.52045	0.952	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	2.220	2.216	(0.523)	17280	0.50484	0.924	
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.499	2.499	(0.589)	42634	8.36518	15.3	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	2.540	2.544	(0.599)	38166	1.20004	2.20	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.601	2.605	(0.613)	27376	0.35855	0.656	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.640	2.637	(0.622)	1494173	41.2920	75.6	
19	Isopropyl Alcohol	45	2.669	2.672	(0.629)	86788	3.35608	6.14(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	2.836	2.829	(0.669)	2914	0.08283	0.152	
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.d
Report Date: 13-Mar-2017 15:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	2.836	2.832	(0.669)	26164	0.41387	0.757(Q)	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.269	(0.771)	1823908	10.3492	10.3(H)	
	33 Methyl Ethyl Ketone	72	3.352	3.336	(0.790)	5147	0.48765	0.892(Q)	
	34 n-Hexane	57	3.349	3.349	(0.790)	821776	21.5343	39.4(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	3.484	3.477	(0.821)	7395	0.12111	0.222(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	3.699	3.705	(0.872)	60812	1.97351	3.61(Q)	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.100	4.106	(0.967)	23175	0.31724	0.581	
	45 Carbon tetrachloride	117	Compound Not Detected.						(D)
	44 Cyclohexane	56	4.119	4.119	(0.971)	7821	0.20738	0.380(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	3319669	10.0000		
	48 2,2,4-Trimethylpentane	57	4.366	4.373	(1.030)	445117	3.61734	6.62	
	49 Heptane	43	4.485	4.491	(1.057)	9787	0.17162	0.314	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	4.562	4.572	(1.076)	4177	0.10417	0.191	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.566	(1.311)	3247061	9.76156	9.76	
	60 Toluene	91	5.631	5.634	(1.328)	129891	1.32358	2.42	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	5.900	5.881	(0.840)	1096	0.01734	0.0317(a)	
	63 n-Octane	43	6.064	6.054	(0.863)	5982	0.09099	0.167(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.401	6.407	(0.911)	1673	0.02856	0.0523(a)	
*	67 Chlorobenzene - d5	117	7.026	7.033	(1.000)	2649284	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.309	7.318	(1.040)	14450	0.12431	0.227	
	70 m&p-Xylene	91	7.456	7.460	(1.061)	40595	0.31679	0.580	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.854	7.861	(1.118)	174868	2.88273	5.28	
	73 Styrene	104	7.864	7.867	(1.119)	7224	0.12251	0.224(Q)	
	74 o-Xylene	91	7.925	7.931	(1.128)	17155	0.17901	0.328	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	8.496	8.499	(1.209)	4899	0.04129	0.0756(a)	
	77 N-Propylbenzene	91	9.054	9.058	(1.289)	3312	0.02654	0.0486(a)	
	78 4-Ethyltoluene	105	9.231	9.228	(1.314)	6761	0.06624	0.121(Q)	

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.d
Report Date: 13-Mar-2017 15:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
79	1,3,5-Trimethylbenzene	105	9.318	9.321	(1.326)	10733	0.07554	0.138
80	n-Decane	57	9.706	9.725	(2.288)	3630	0.06728	0.123(M)
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	9.818	9.828	(1.397)	26990	0.18523	0.339
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.190	10.197	(1.450)	1643287	10.1239	10.1
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	10.418	10.415	(1.483)	4436	0.05453	0.0998(M)
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	10.973	10.967	(1.562)	1561	0.01830	0.0335(aQM)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	12.960	12.953	(1.844)	12999	0.46823	0.857
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.d
Report Date: 13-Mar-2017 15:53

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06913.d
Lab Smp Id: 10380372007
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 10-MAR-2017
Calibration Time: 14:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

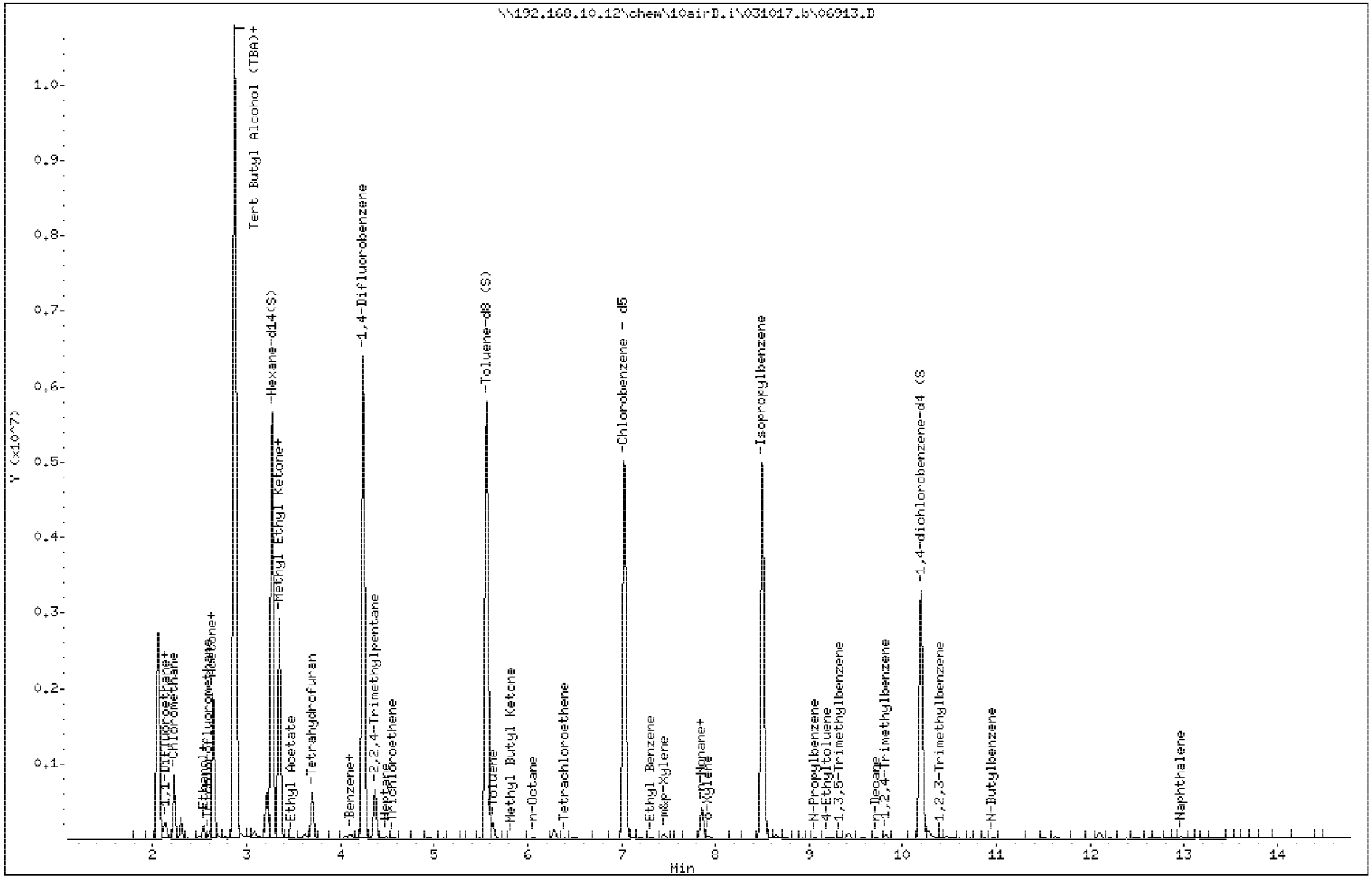
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3319669	-12.35
67 Chlorobenzene - d	3280875	1968525	4593225	2649284	-19.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D
Date : 10-MAR-2017 20:42
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

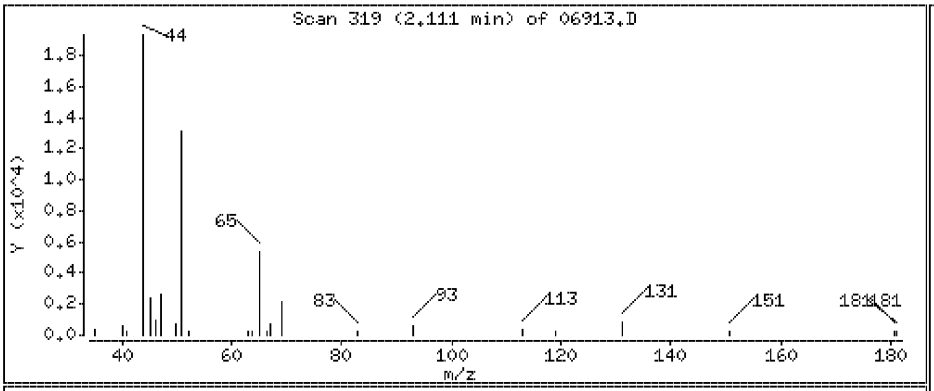
Operator: DR1

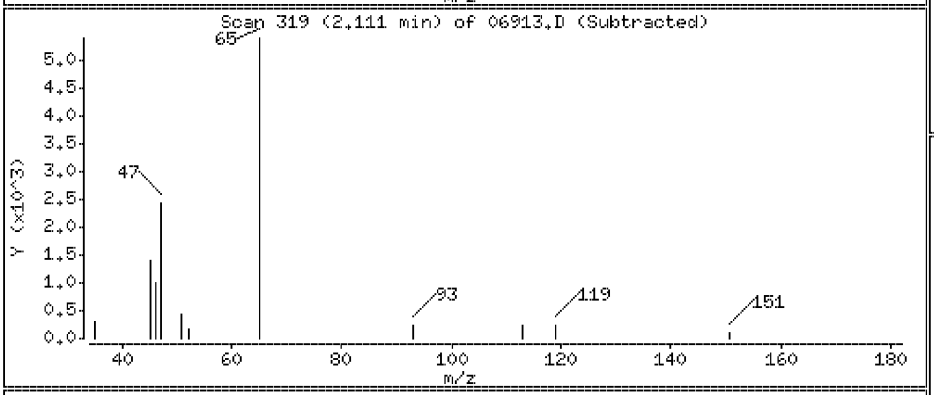
Column phase: J&W DB-5

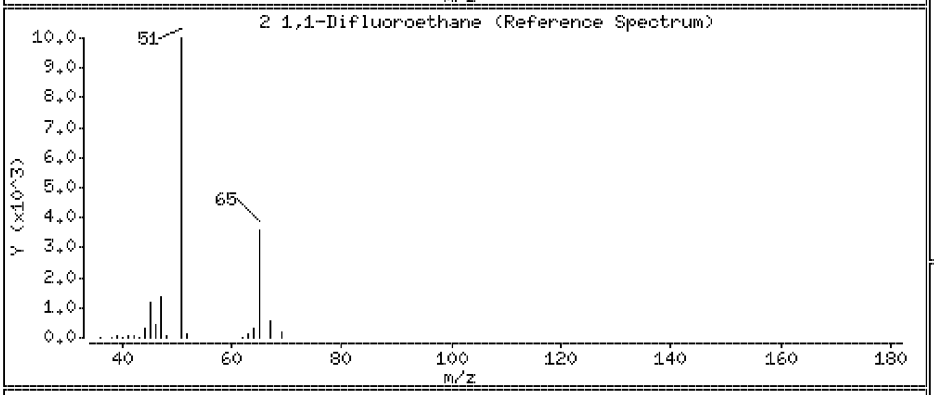
Column diameter: 0.32

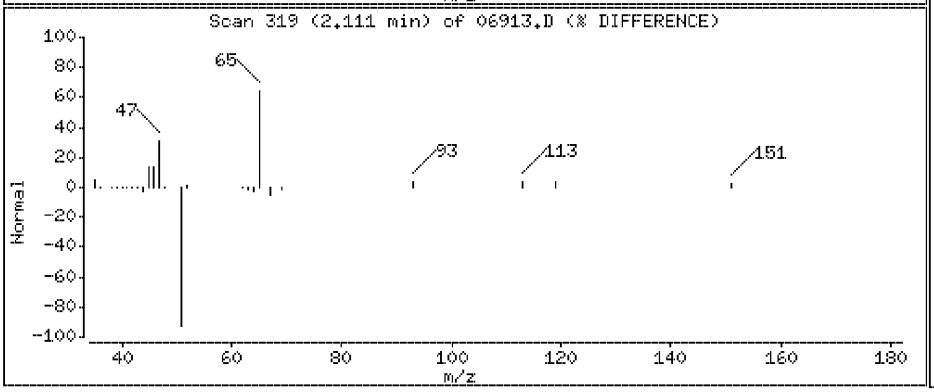
2 1,1-Difluoroethane

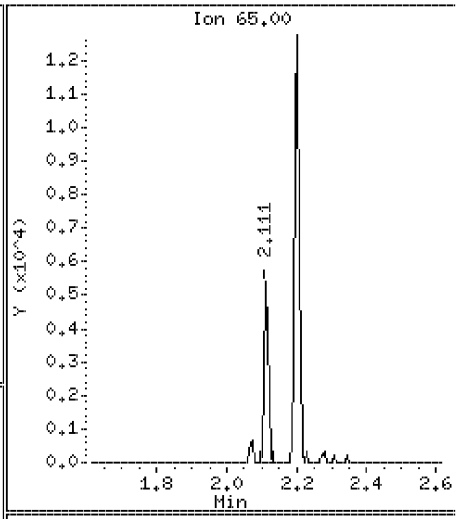
Concentration: 0.463 ppbv

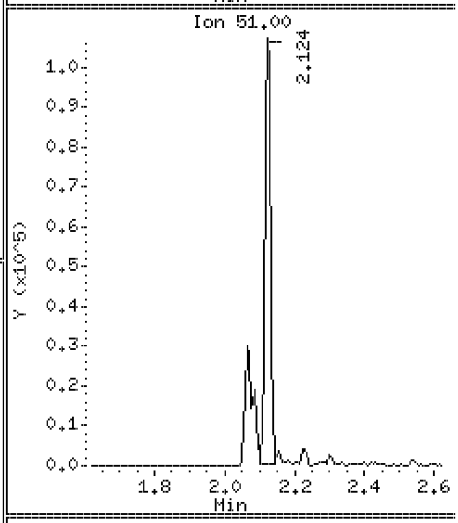


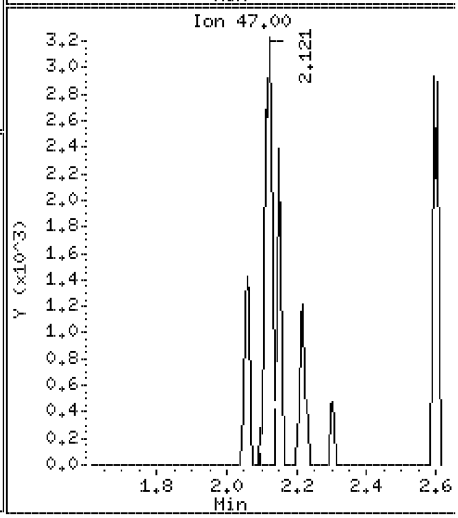












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

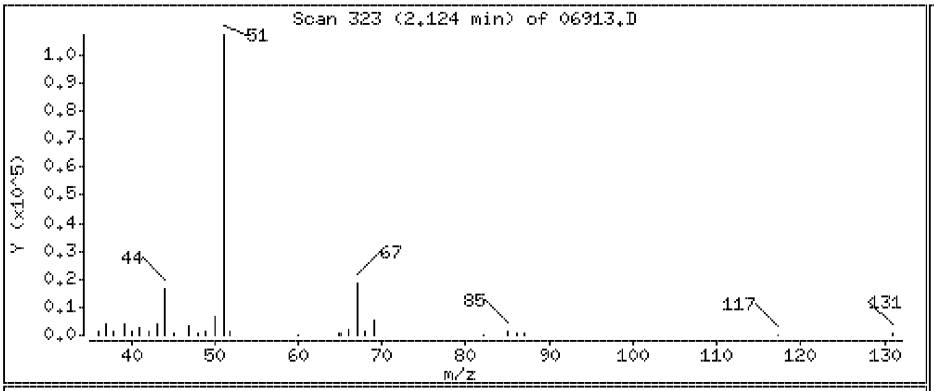
Operator: DR1

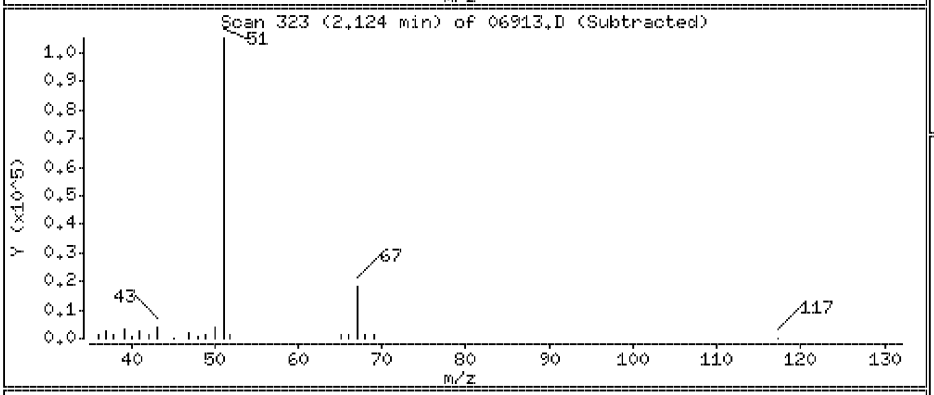
Column phase: J&W DB-5

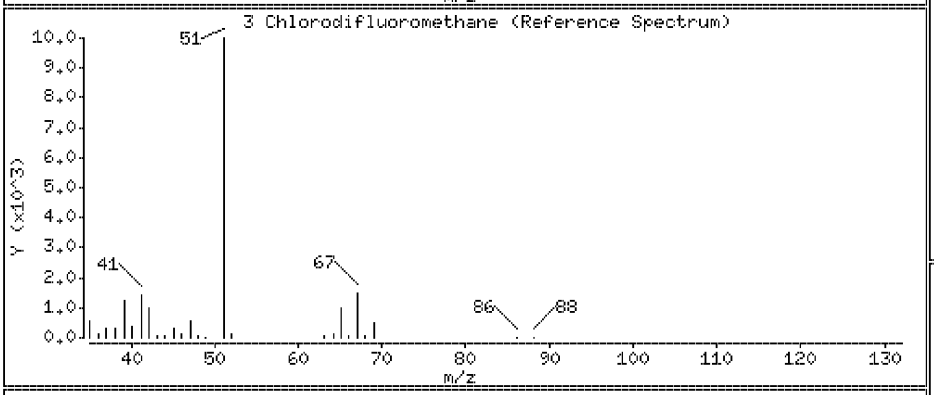
Column diameter: 0.32

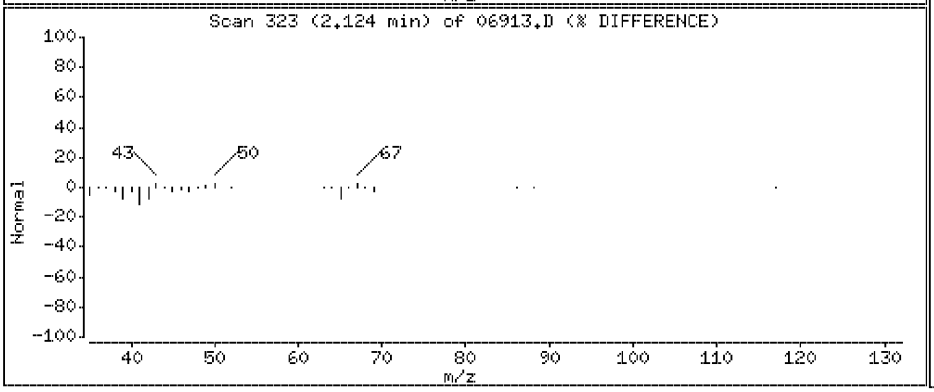
3 Chlorodifluoromethane

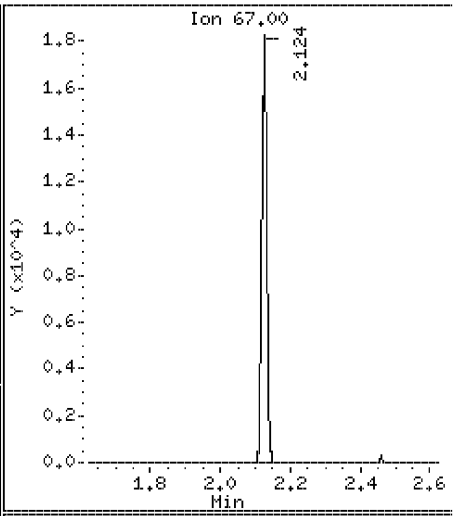
Concentration: 3.39 ppbv

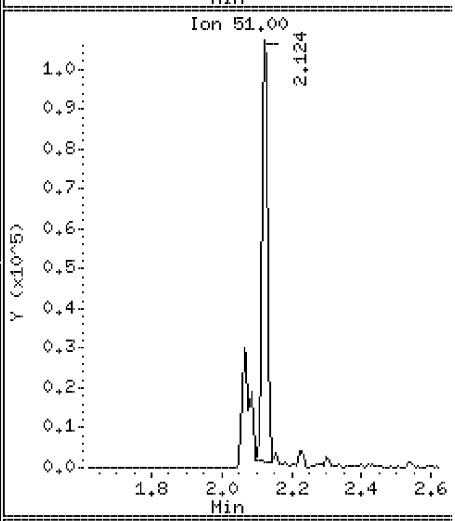


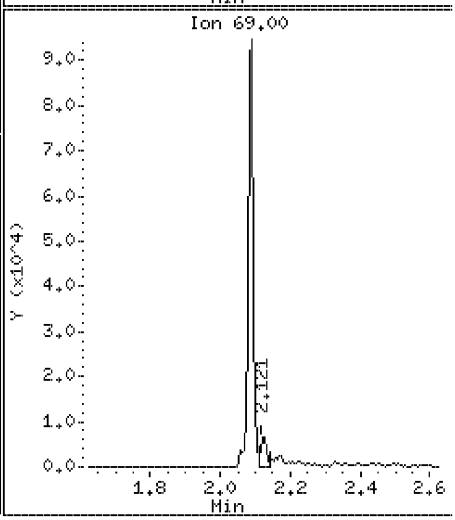












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

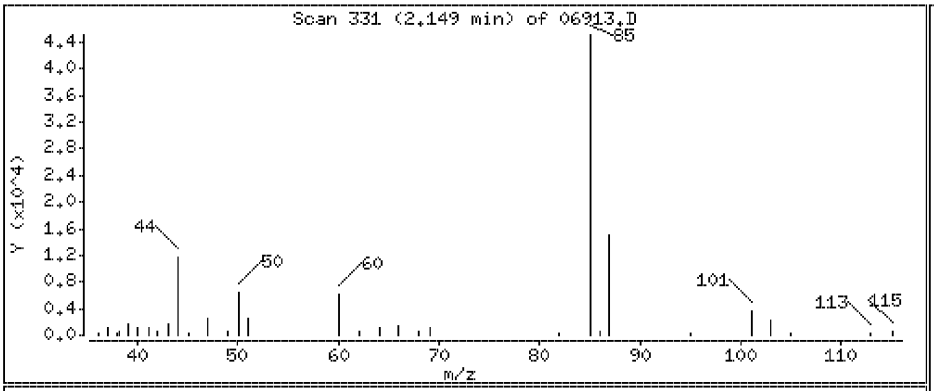
Operator: DR1

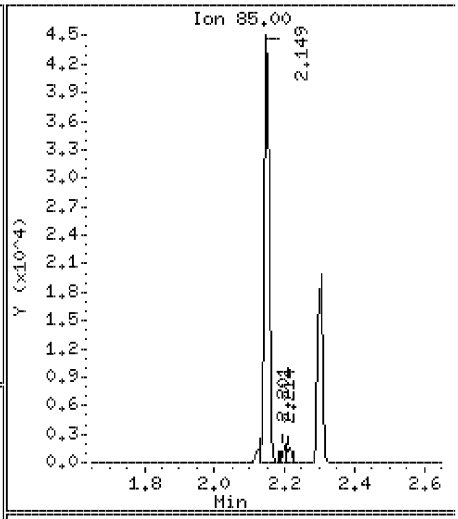
Column phase: J&W DB-5

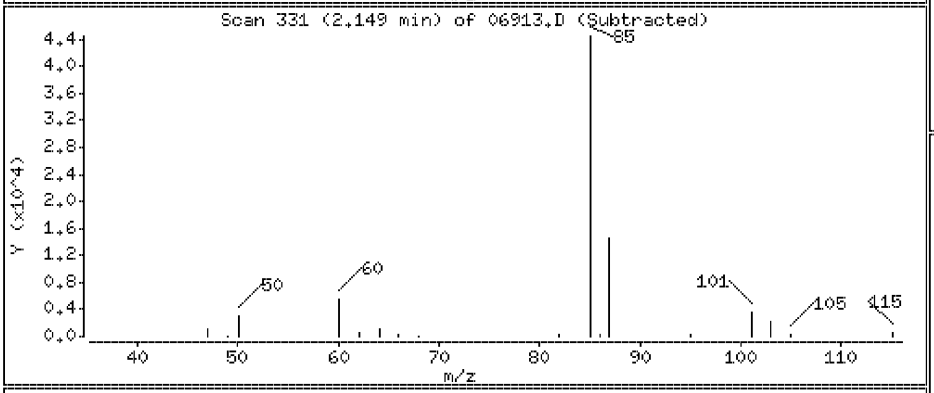
Column diameter: 0.32

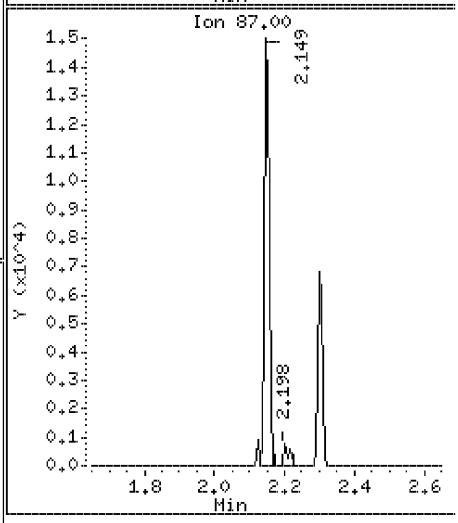
5 Dichlorodifluoromethane

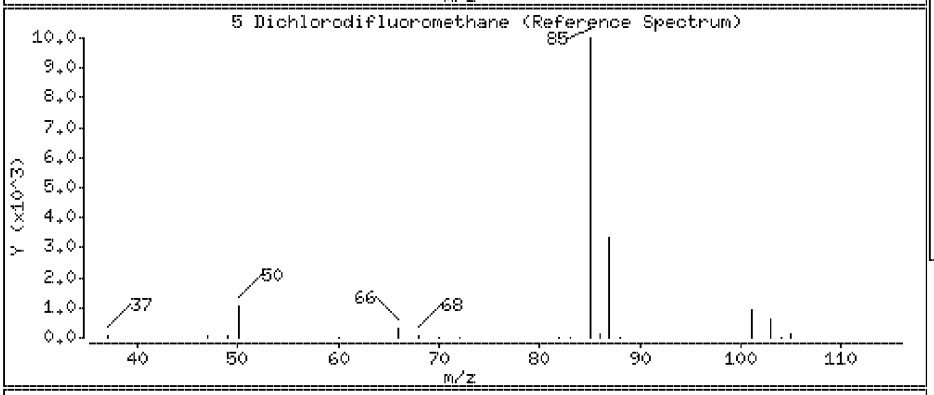
Concentration: 0.952 ppbv

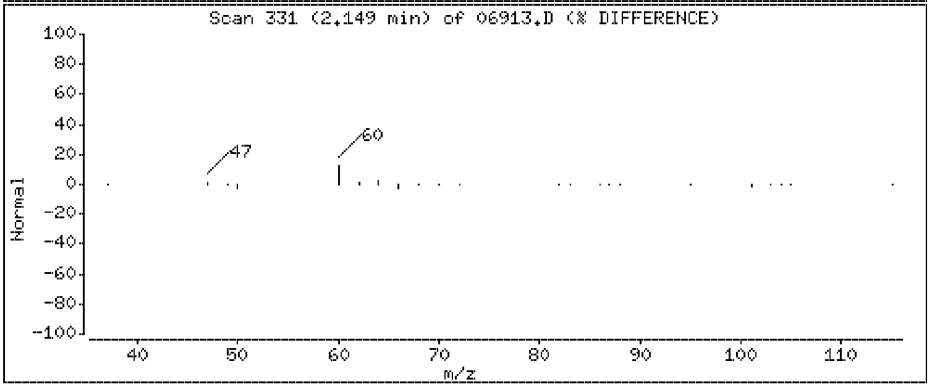












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

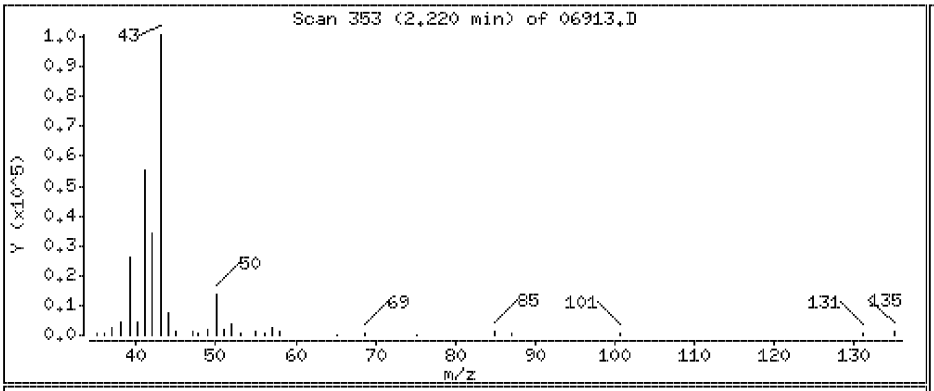
Operator: DR1

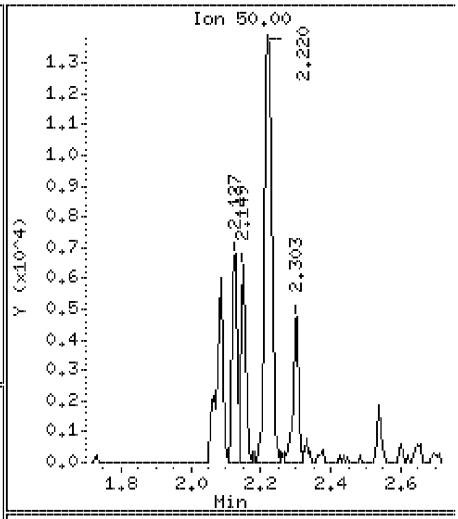
Column phase: J&W DB-5

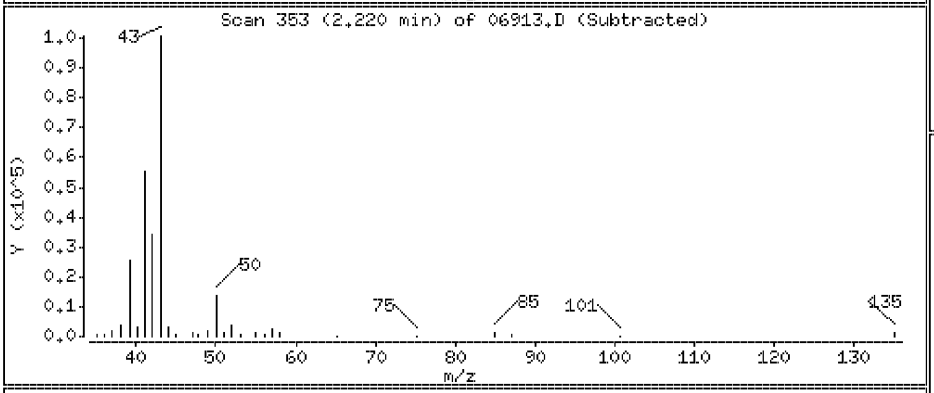
Column diameter: 0.32

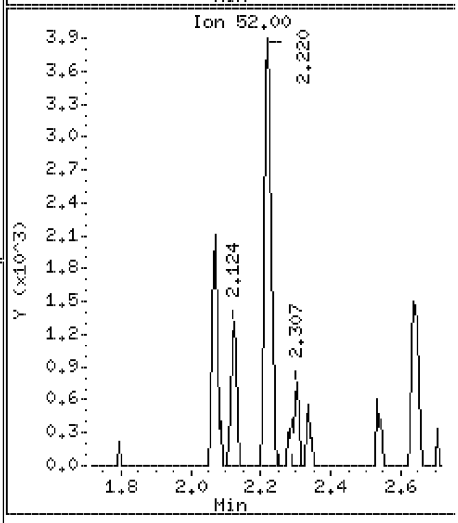
7 Chloromethane

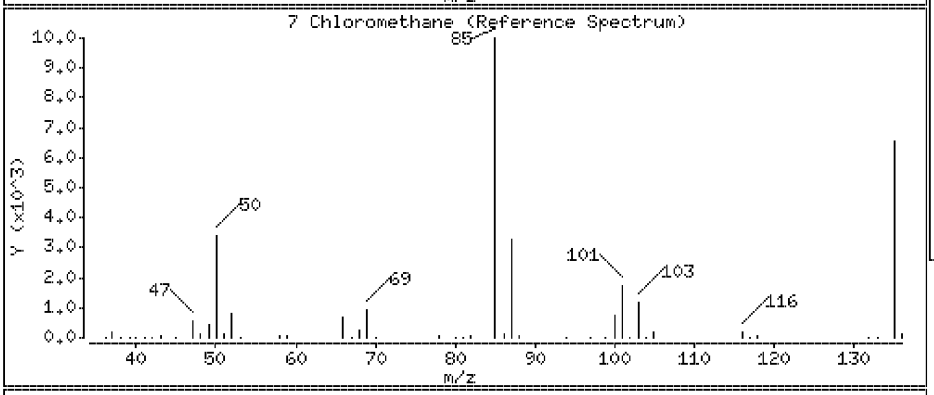
Concentration: 0.924 ppbv

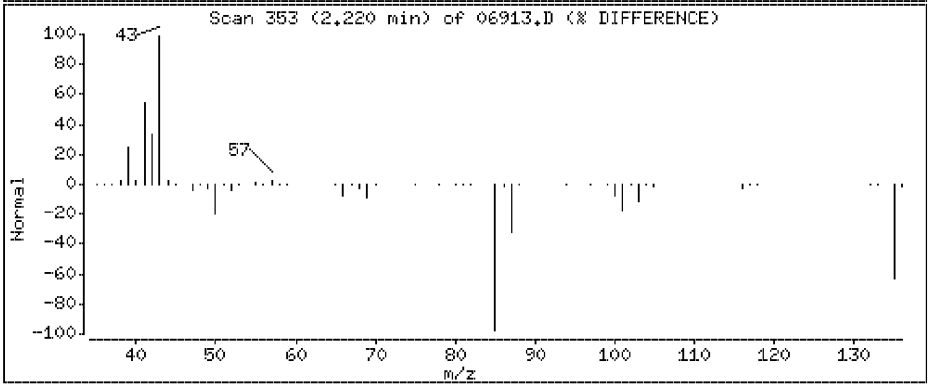












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

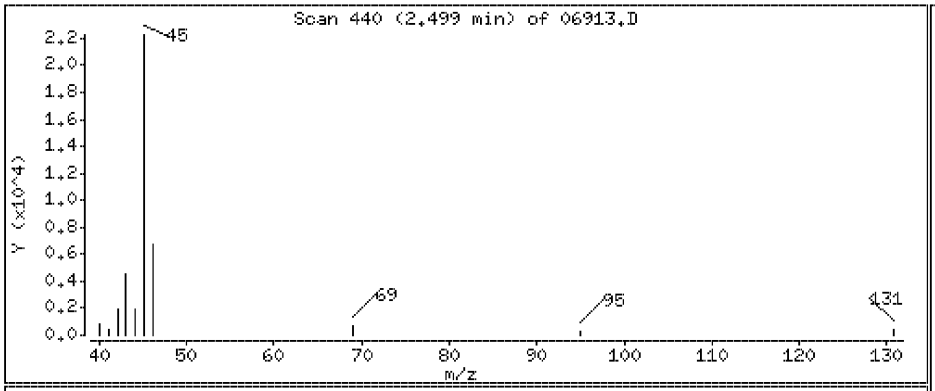
Operator: DR1

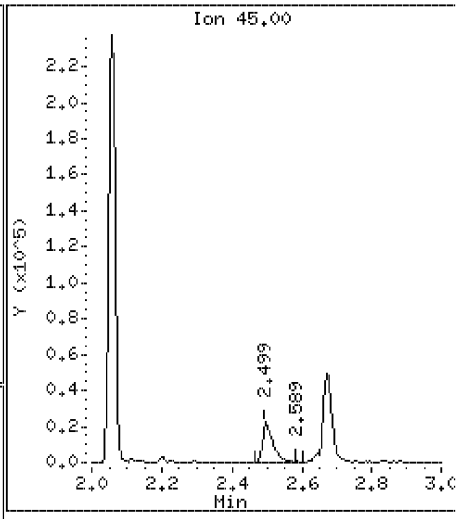
Column phase: J&W DB-5

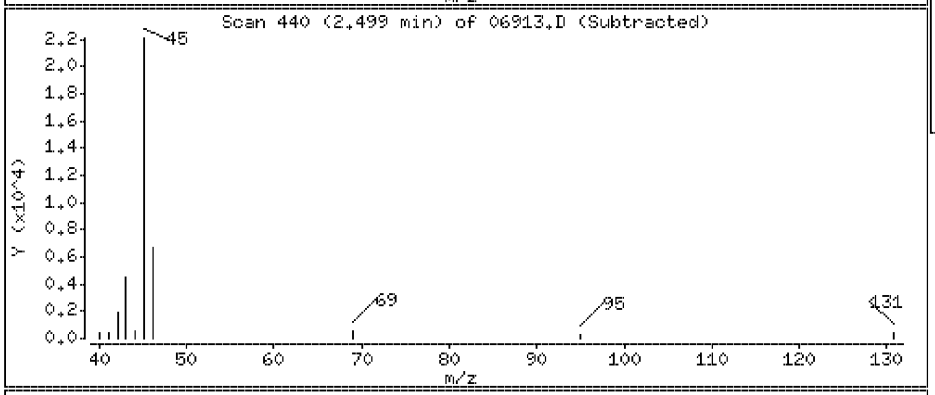
Column diameter: 0.32

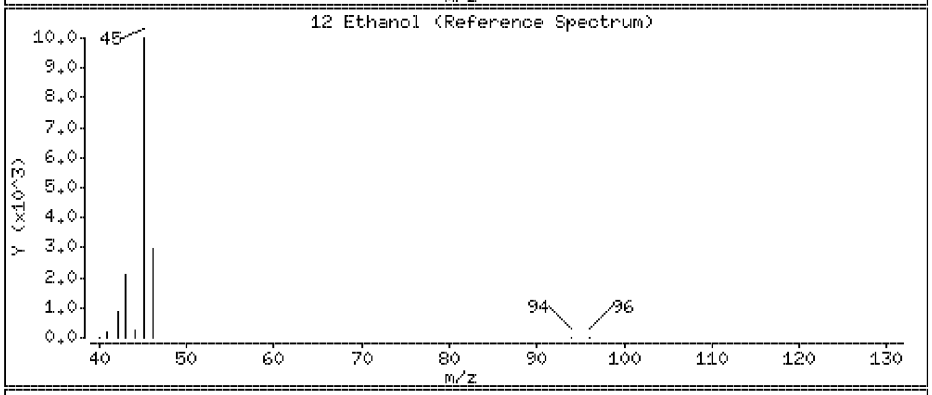
12 Ethanol

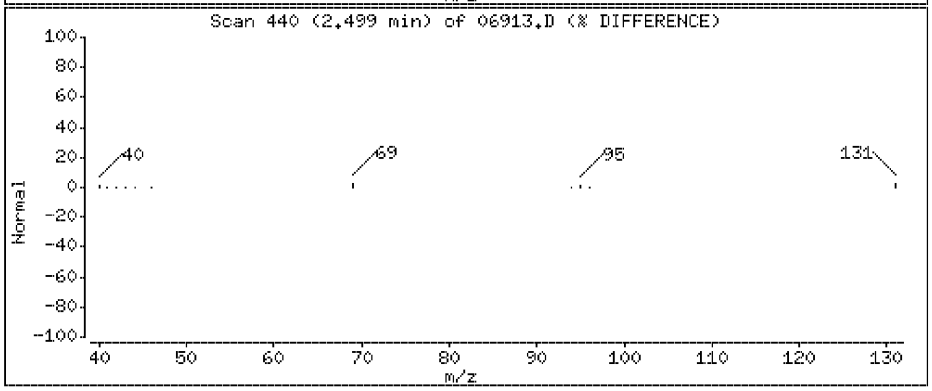
Concentration: 15.3 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

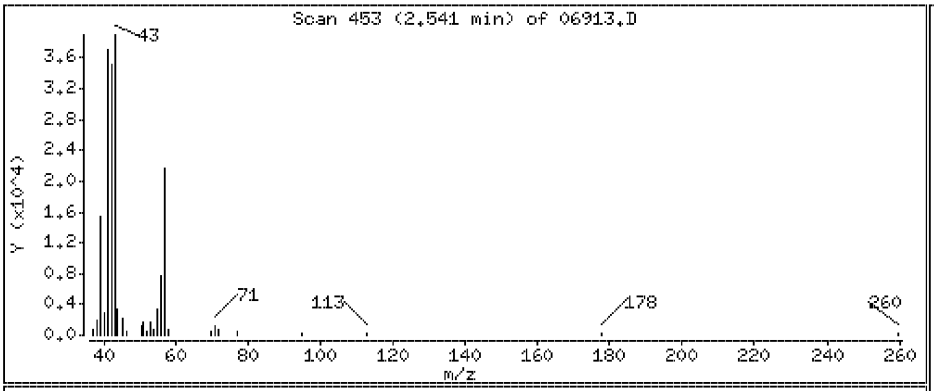
Operator: DR1

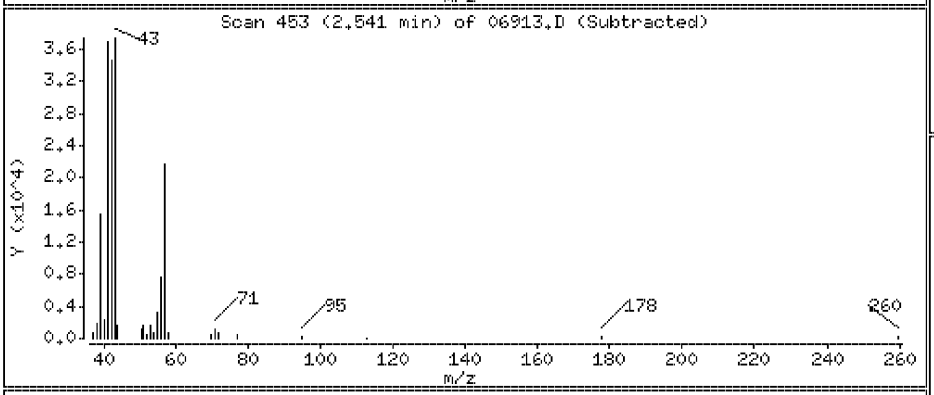
Column phase: J&W DB-5

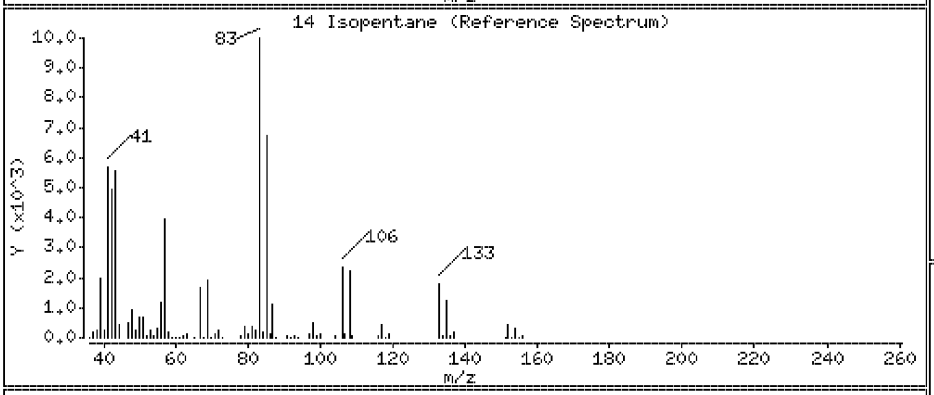
Column diameter: 0.32

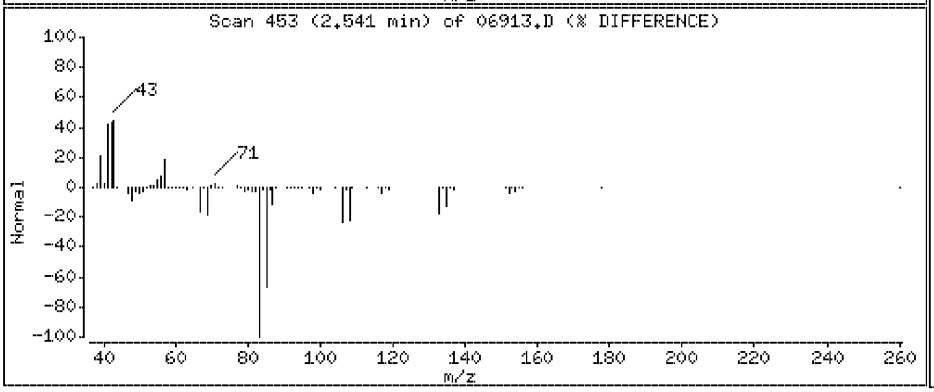
14 Isopentane

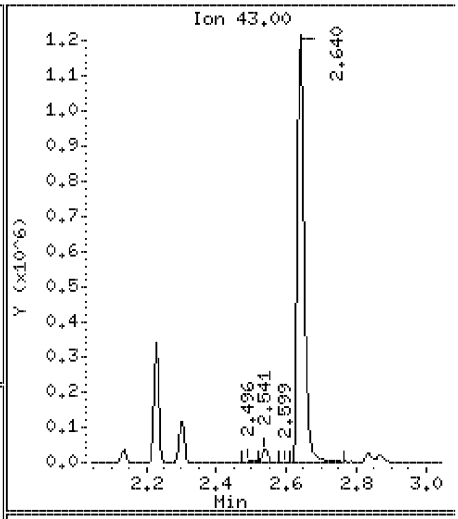
Concentration: 2.20 ppbv

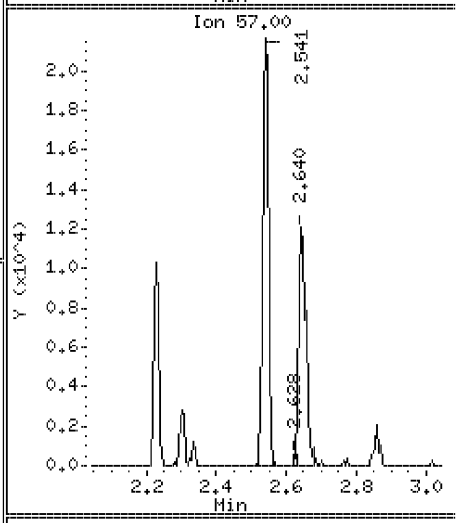


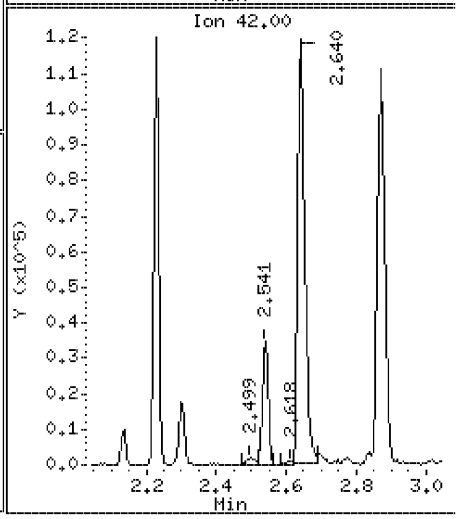












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

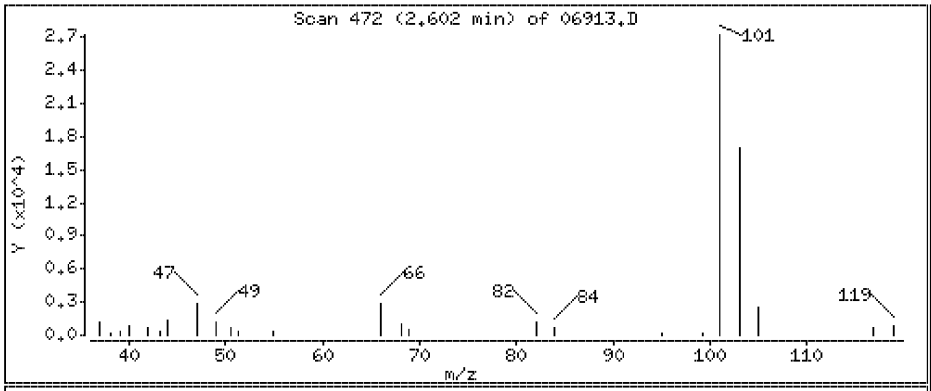
Operator: DR1

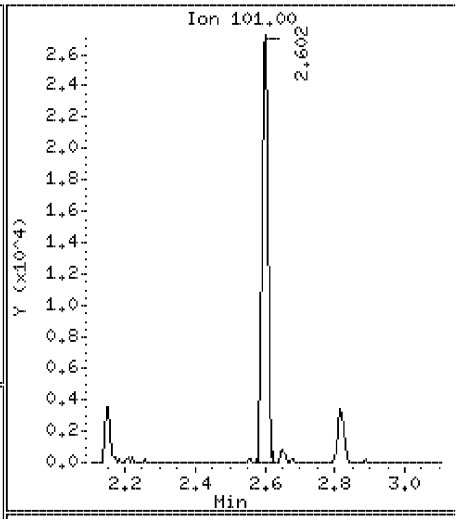
Column phase: J&W DB-5

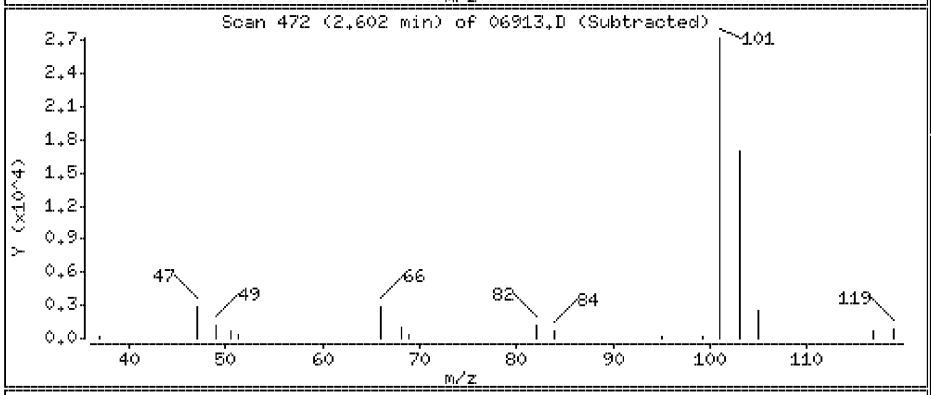
Column diameter: 0.32

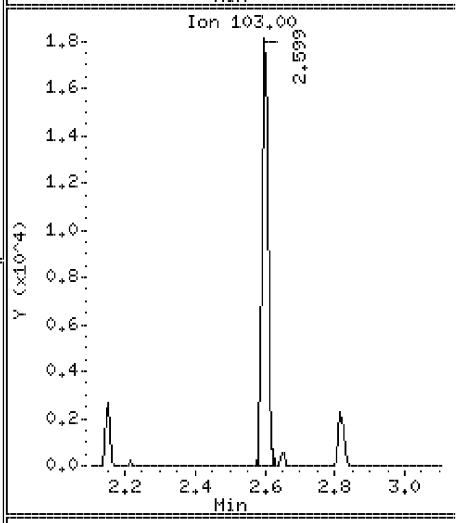
16 Trichlorofluoromethane

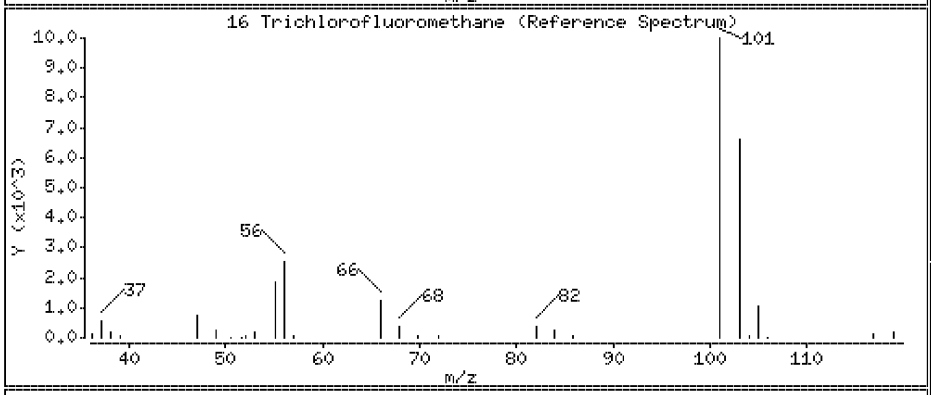
Concentration: 0.656 ppbv

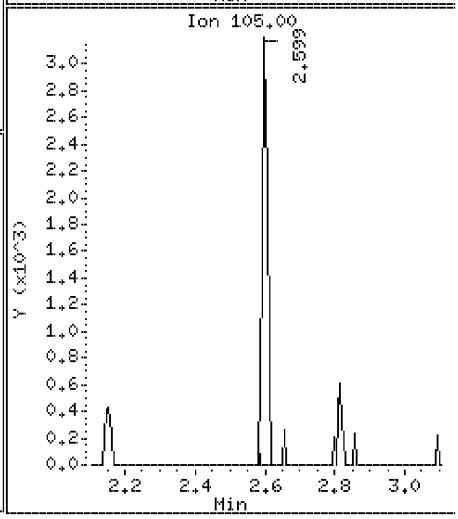


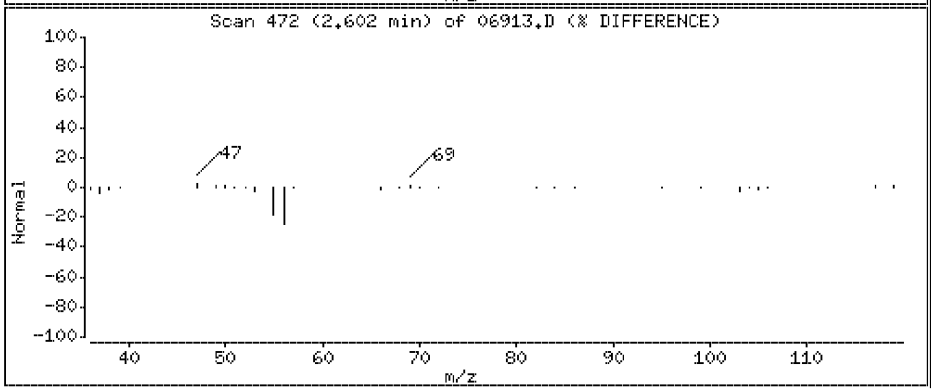












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

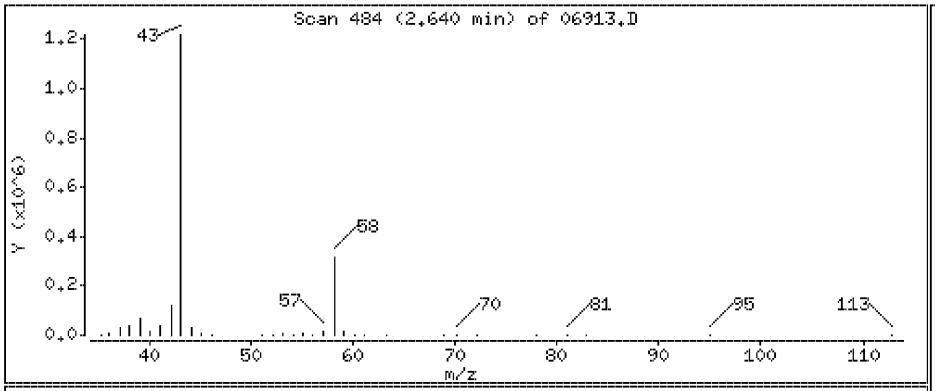
Operator: DR1

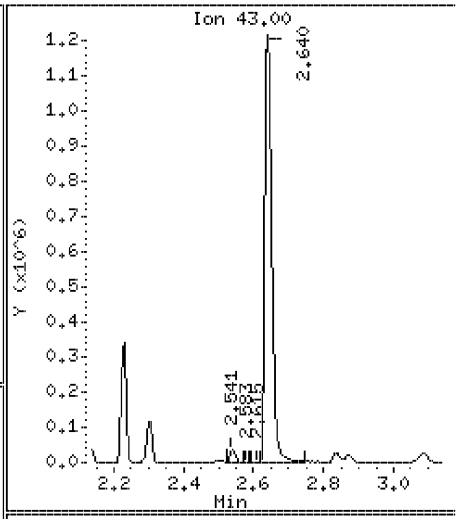
Column phase: J&W DB-5

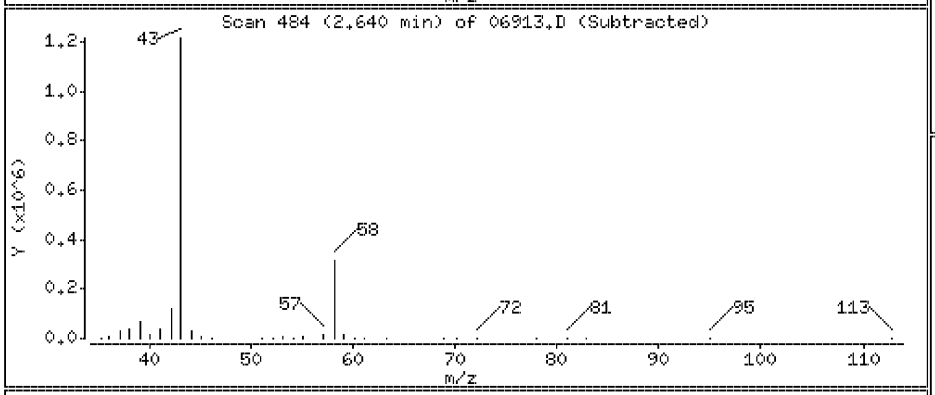
Column diameter: 0.32

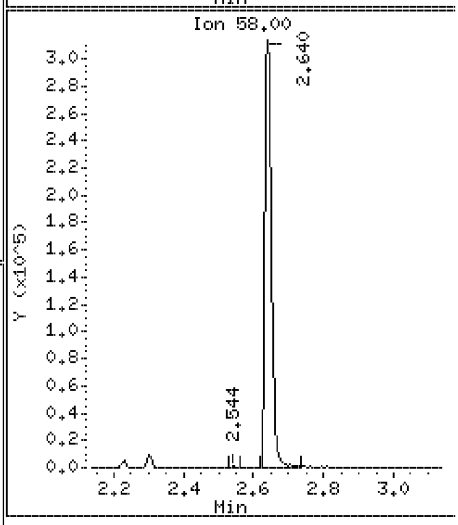
18 Acetone

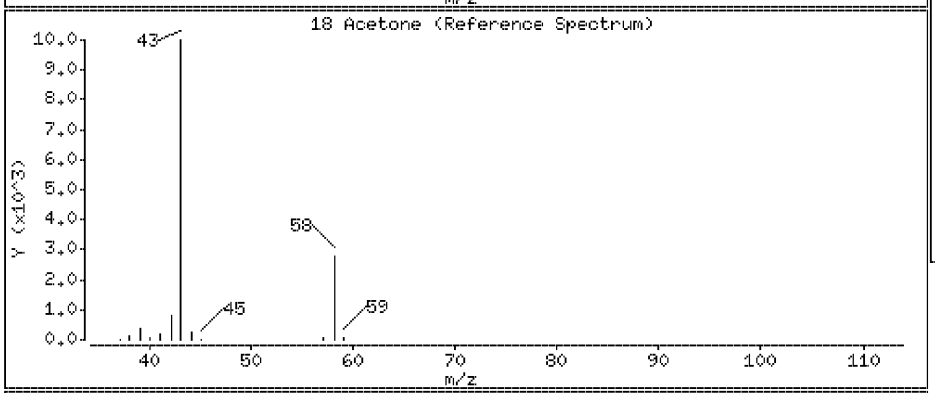
Concentration: 75.6 ppbv

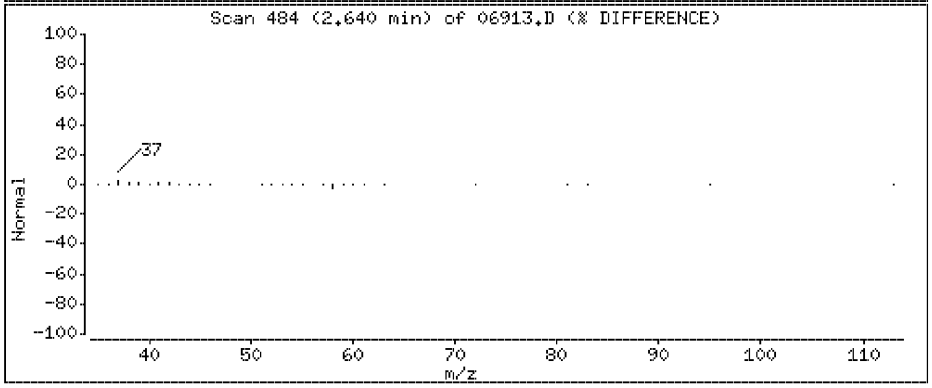












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

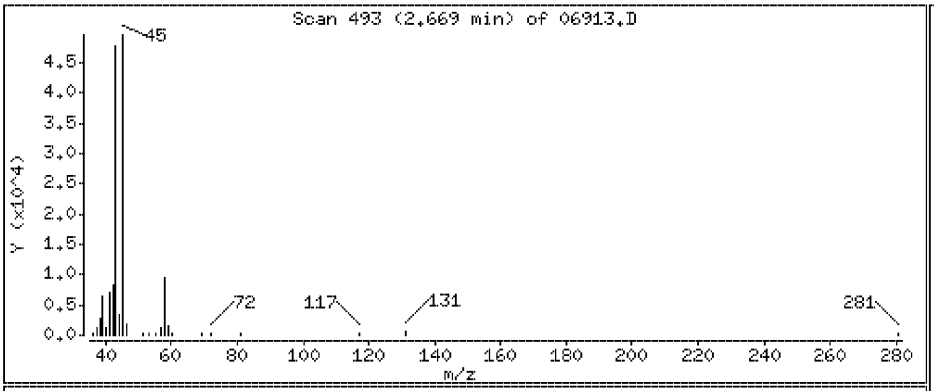
Operator: DR1

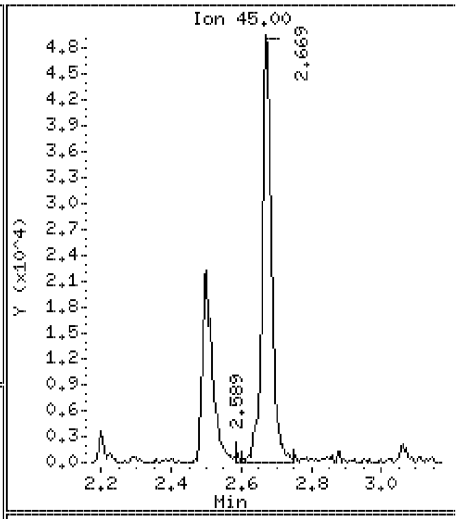
Column phase: J&W DB-5

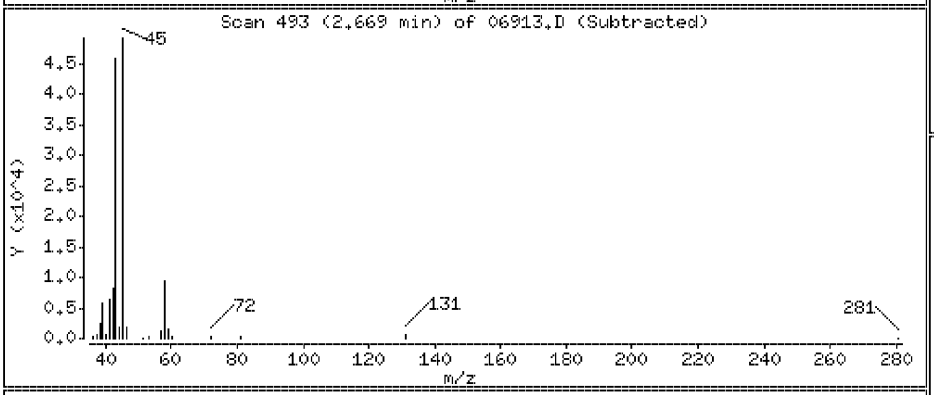
Column diameter: 0.32

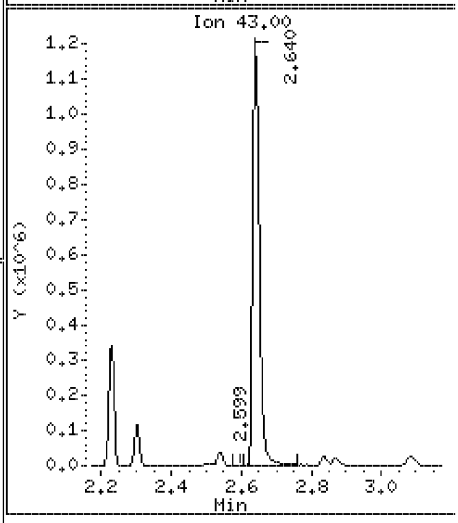
19 Isopropyl Alcohol

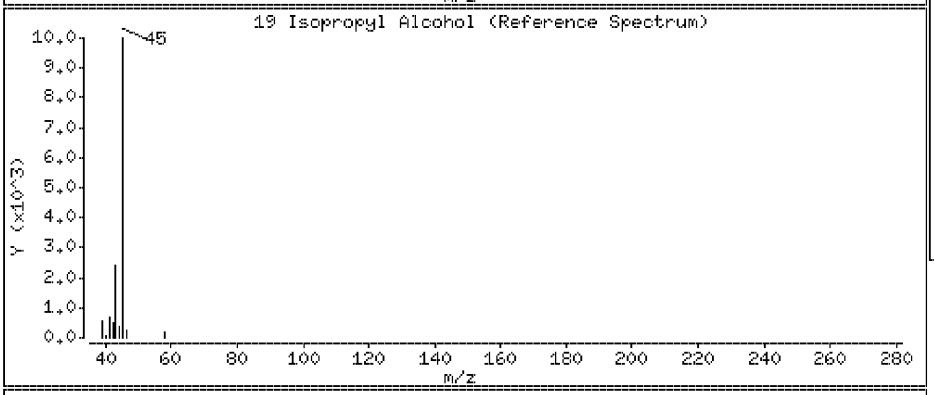
Concentration: 6.14 ppbv

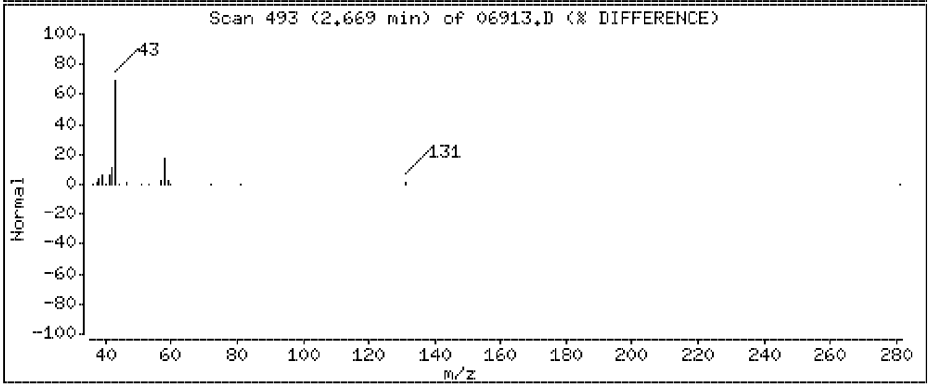












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

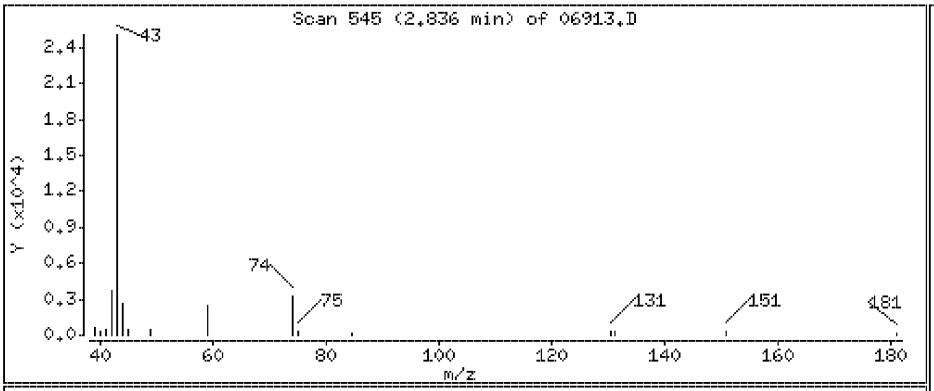
Operator: DR1

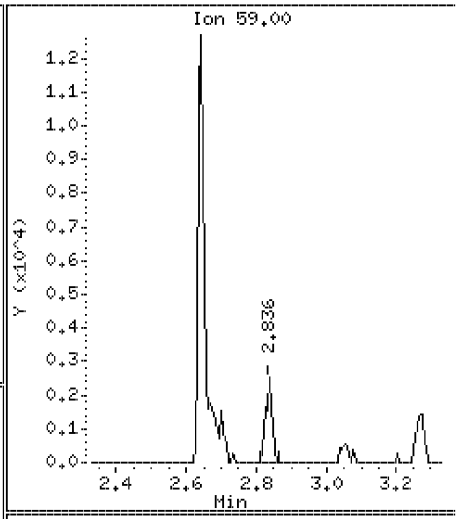
Column phase: J&W DB-5

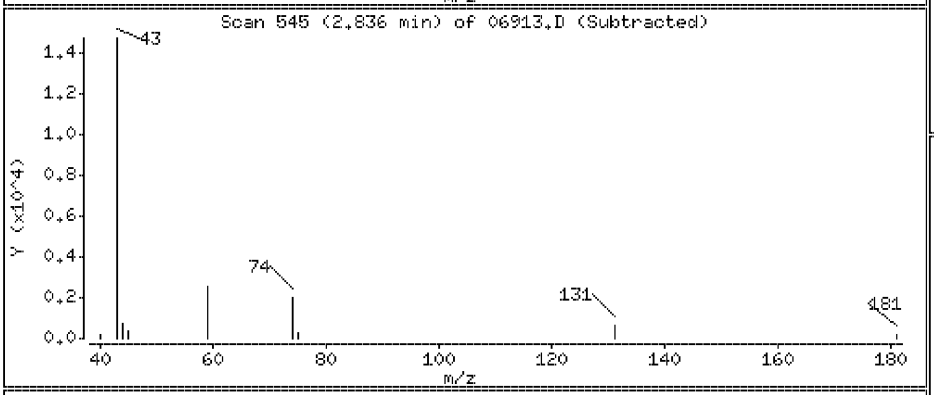
Column diameter: 0.32

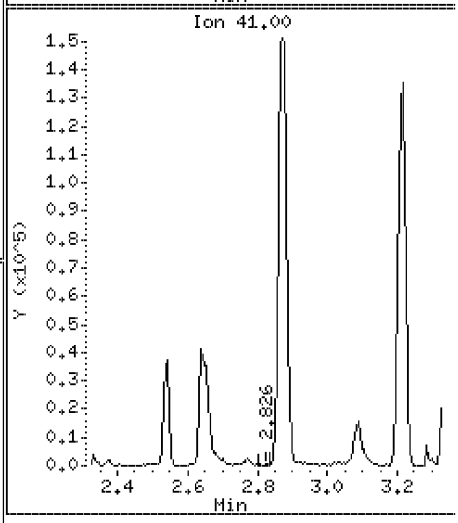
24 Tert Butyl Alcohol (TBA)

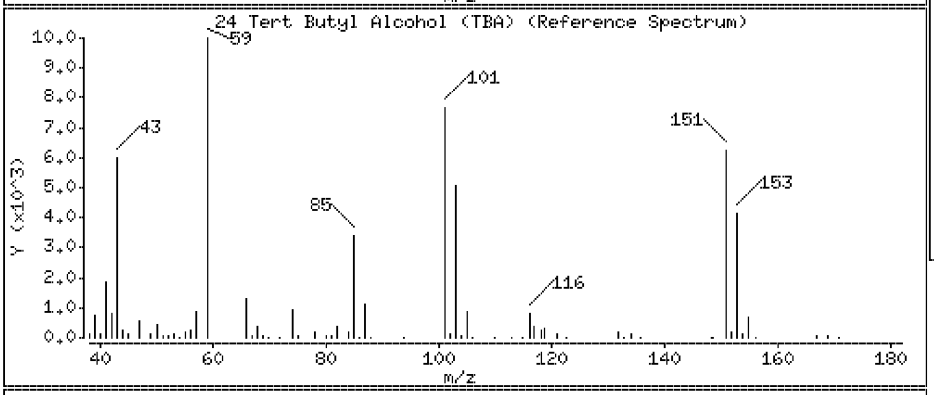
Concentration: 0.152 ppbv

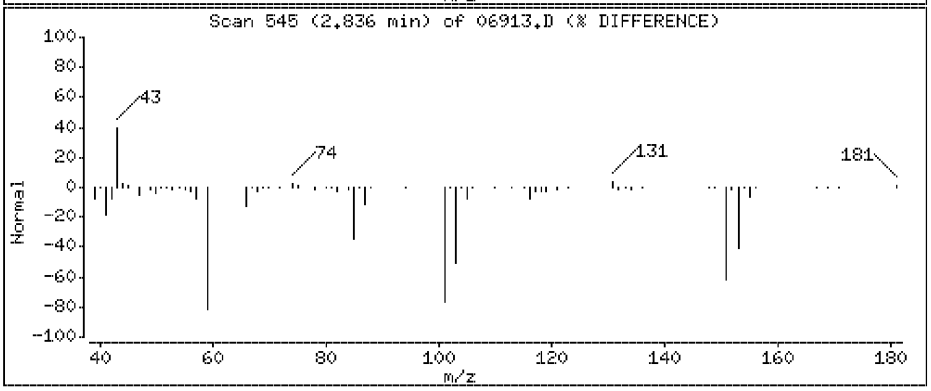












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

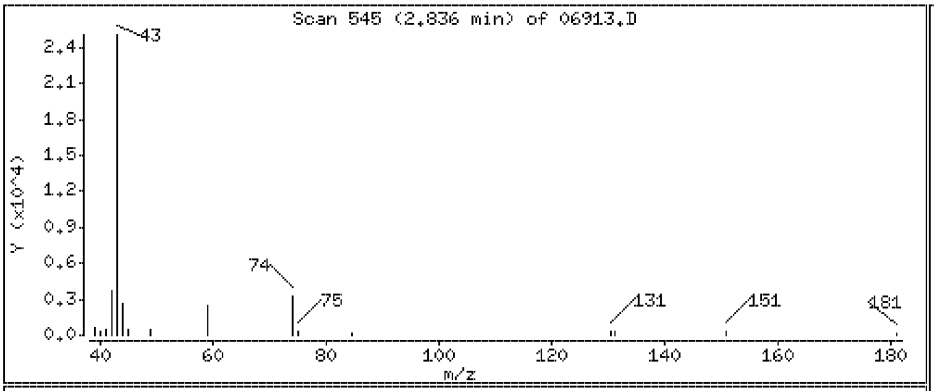
Operator: DR1

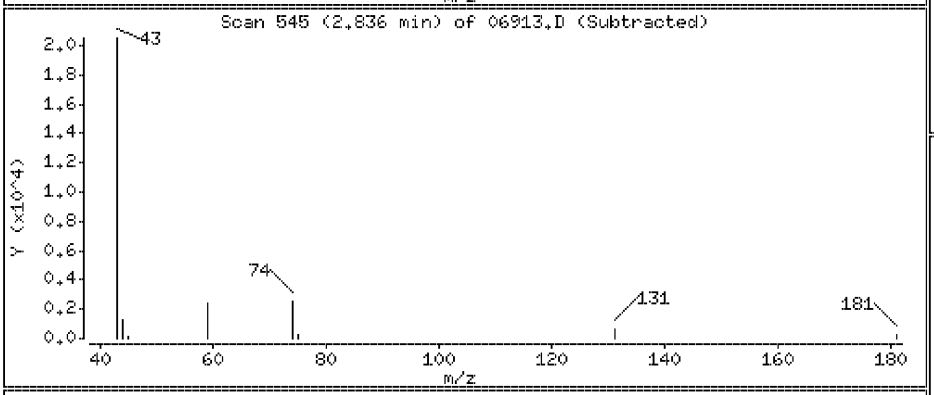
Column phase: J&W DB-5

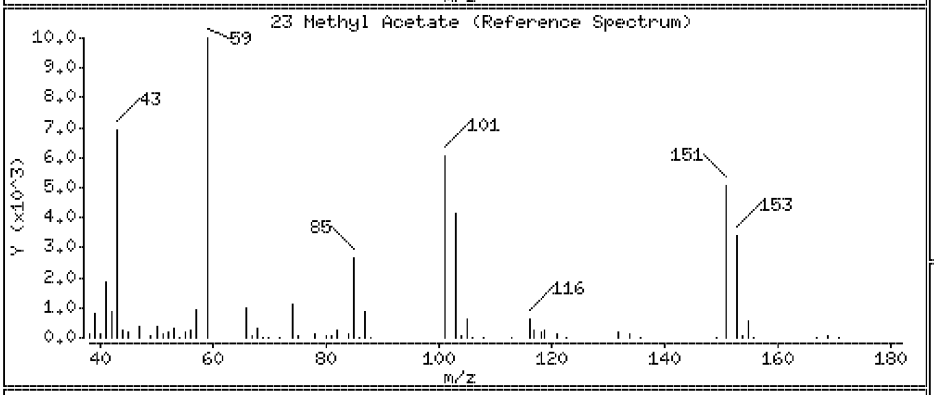
Column diameter: 0.32

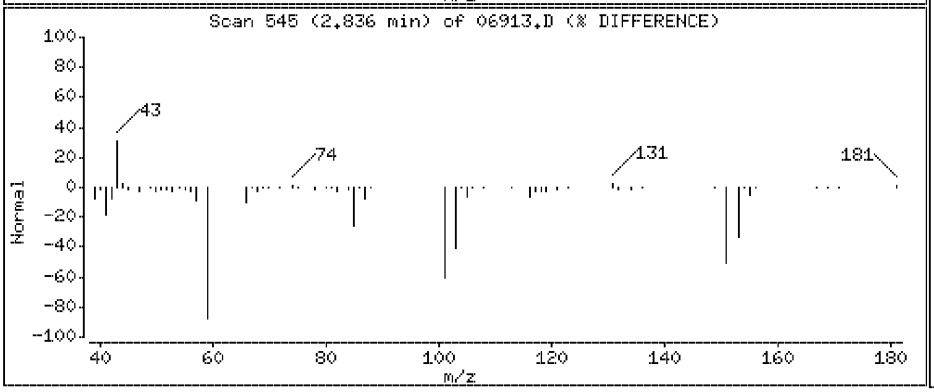
23 Methyl Acetate

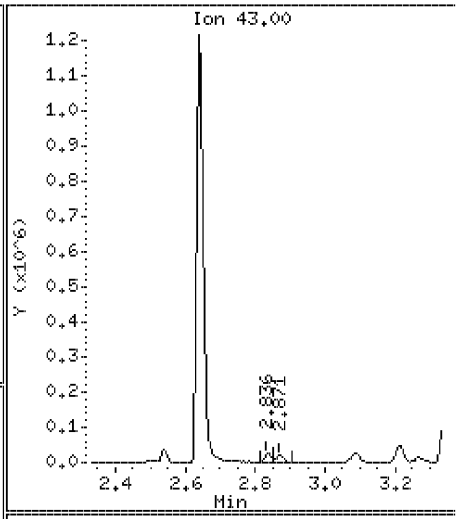
Concentration: 0.757 ppbv

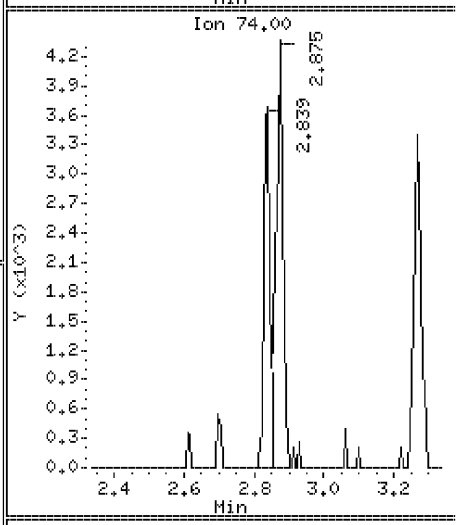


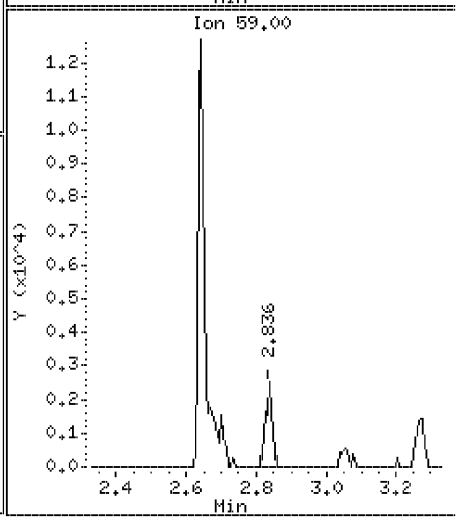












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

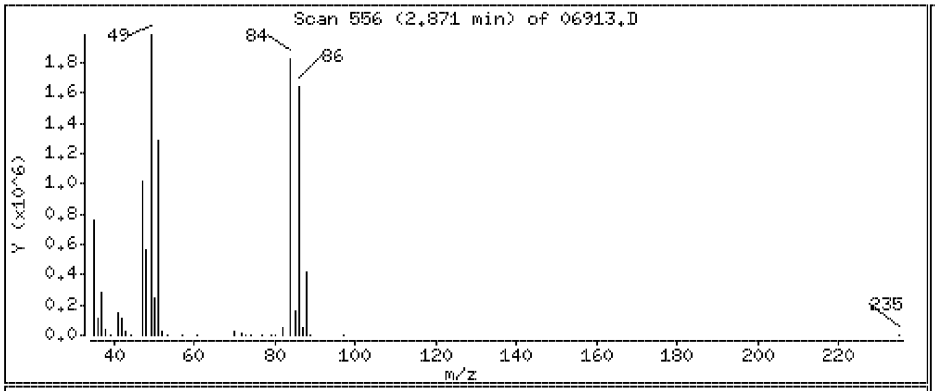
Sample Info:

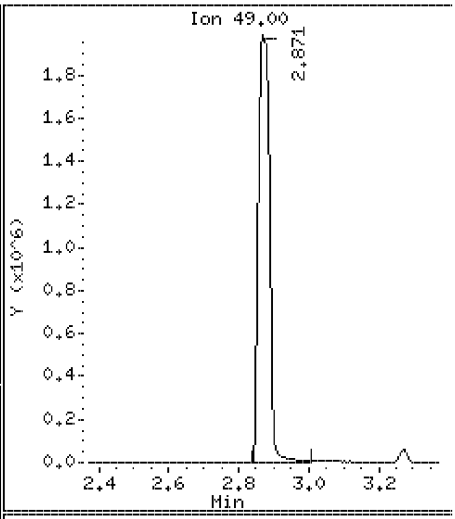
Operator: DR1

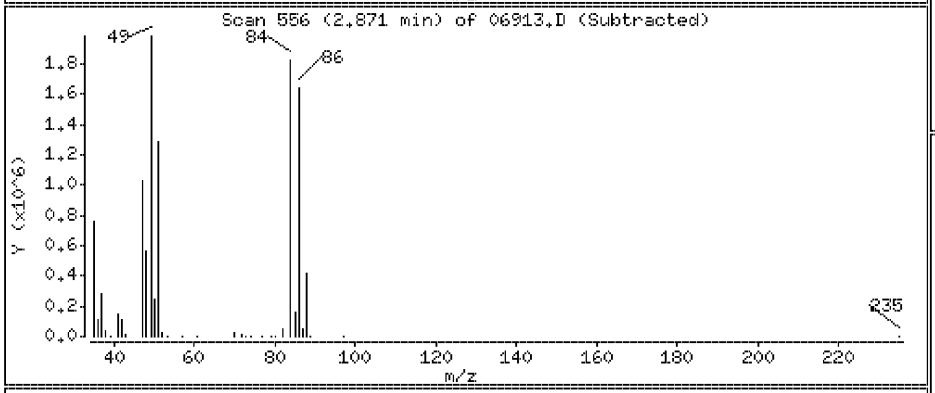
Column phase: J&W DB-5

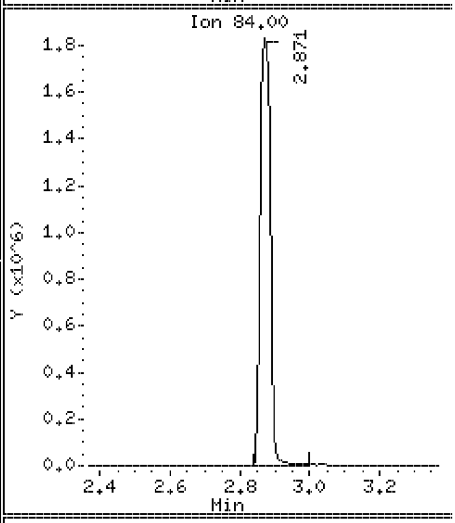
Column diameter: 0.32

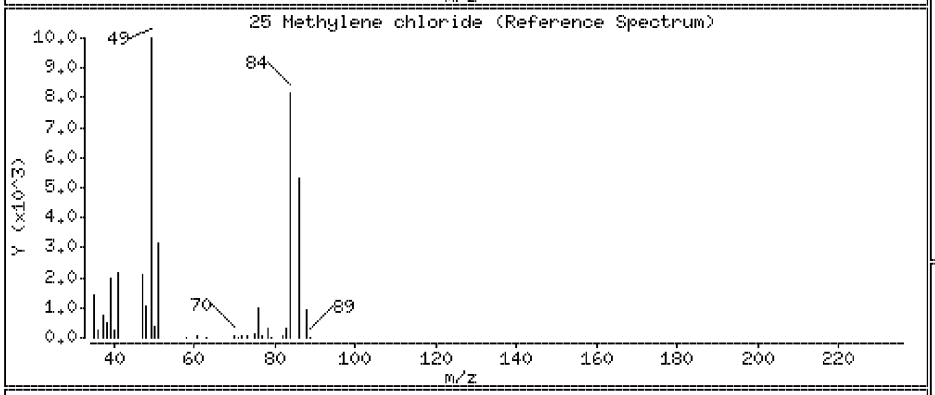
25 Methylene chloride

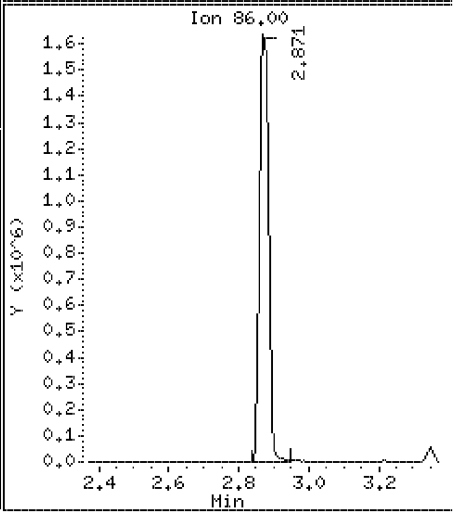


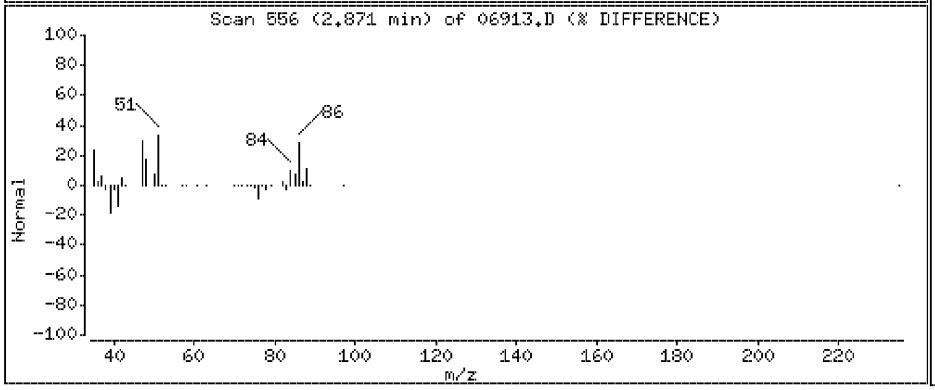












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

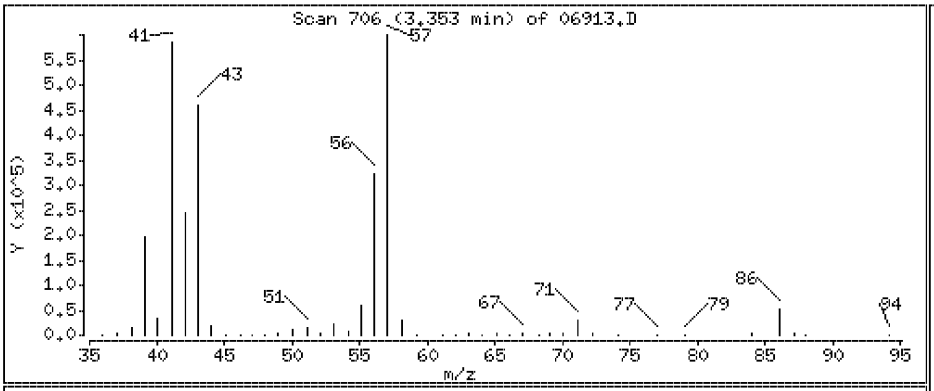
Operator: DR1

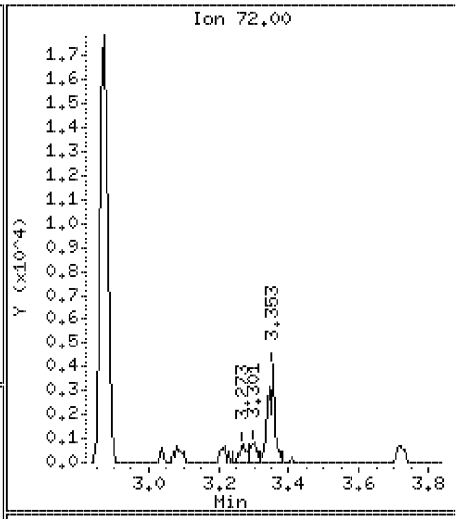
Column phase: J&W DB-5

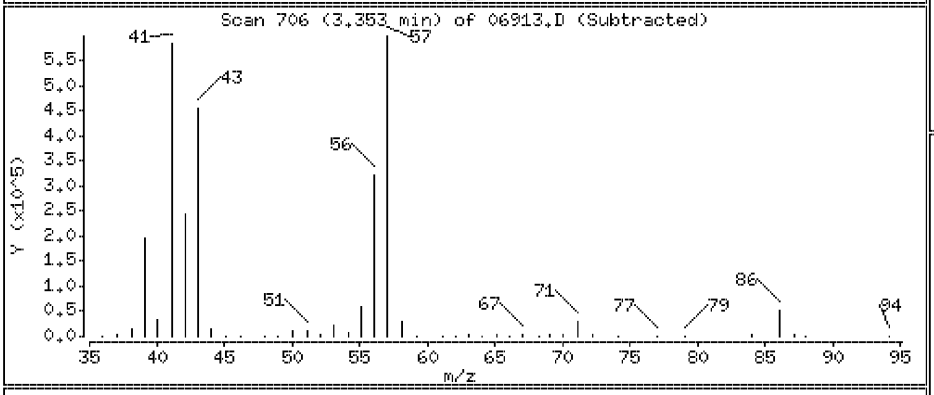
Column diameter: 0.32

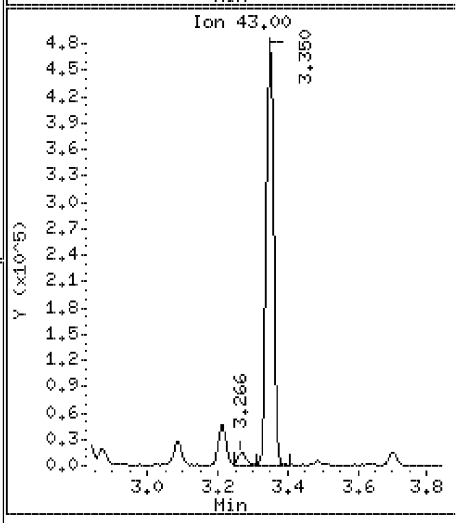
33 Methyl Ethyl Ketone

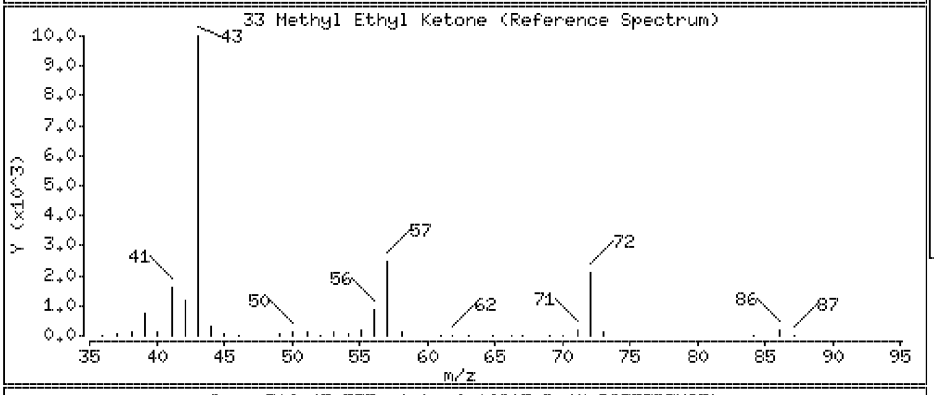
Concentration: 0.892 ppbv

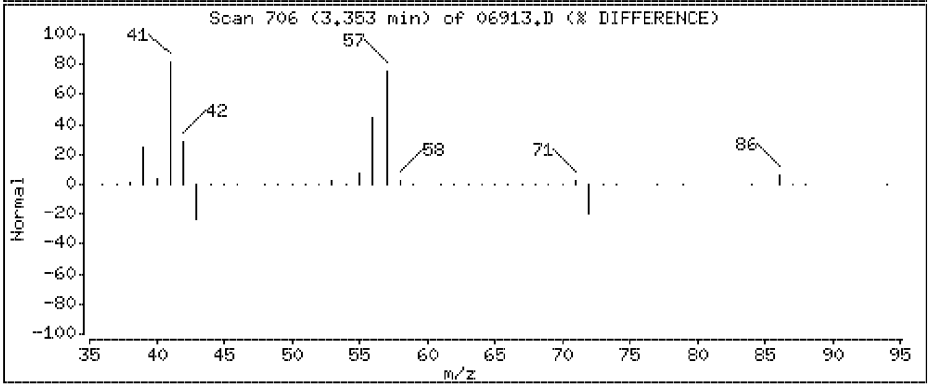












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

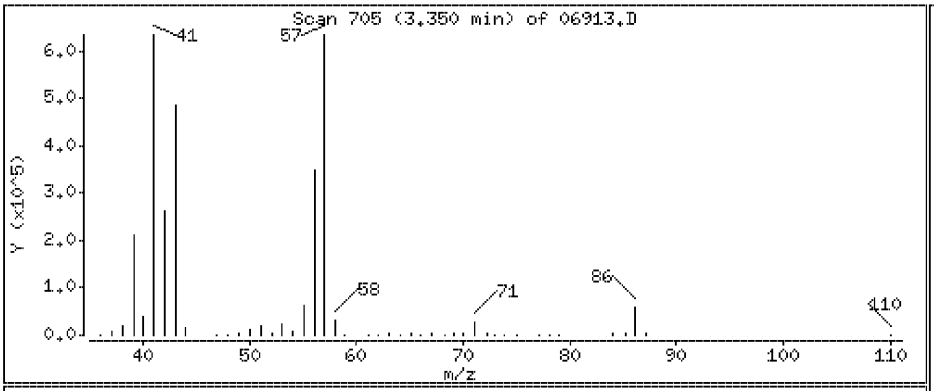
Operator: DR1

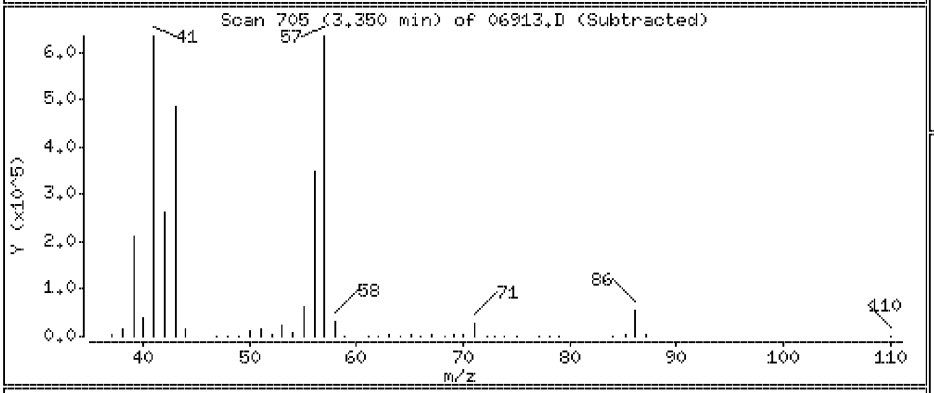
Column phase: J&W DB-5

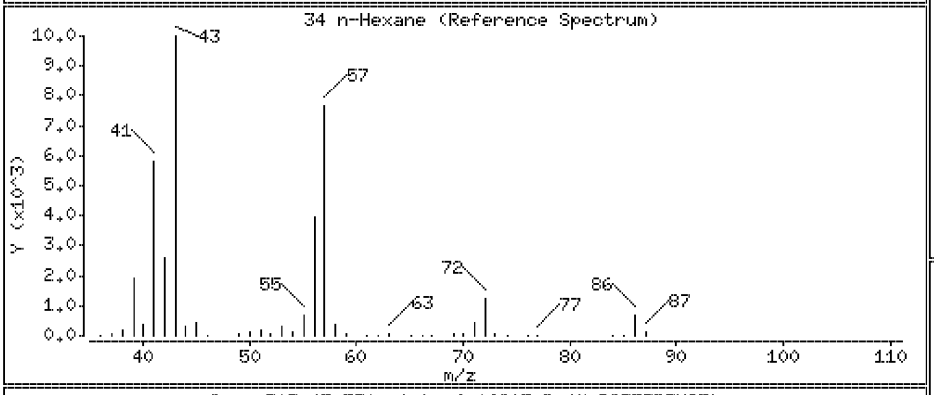
Column diameter: 0.32

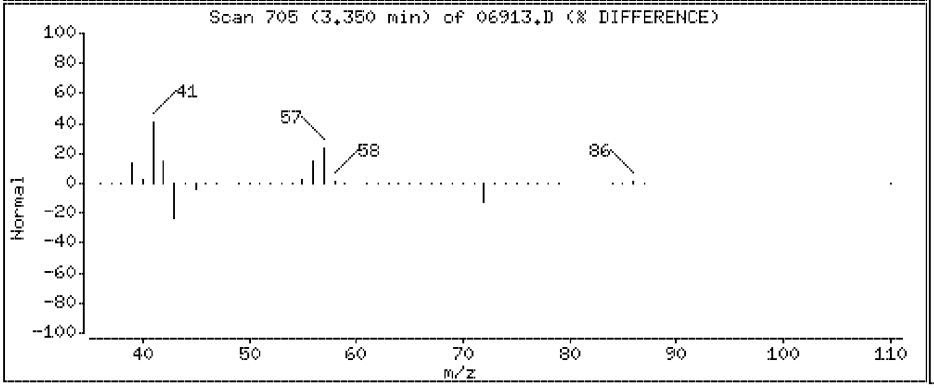
34 n-Hexane

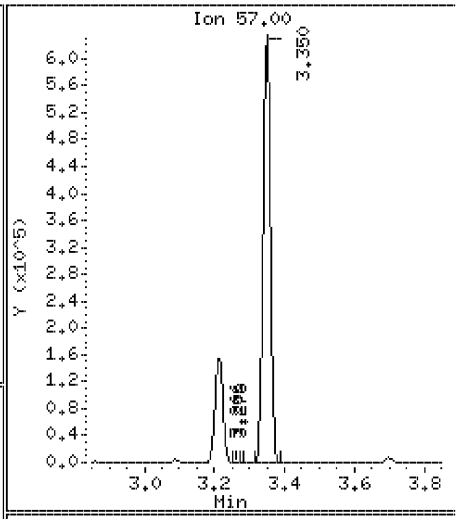
Concentration: 39.4 ppbv

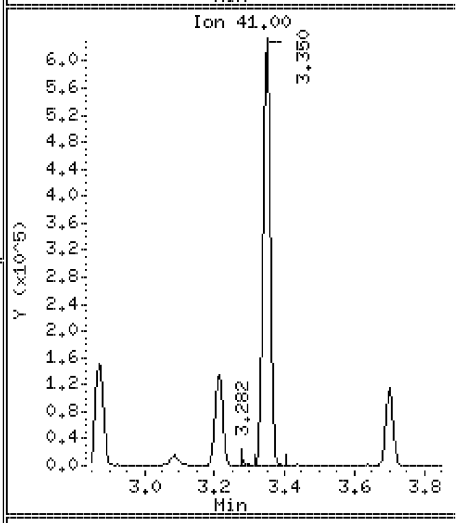


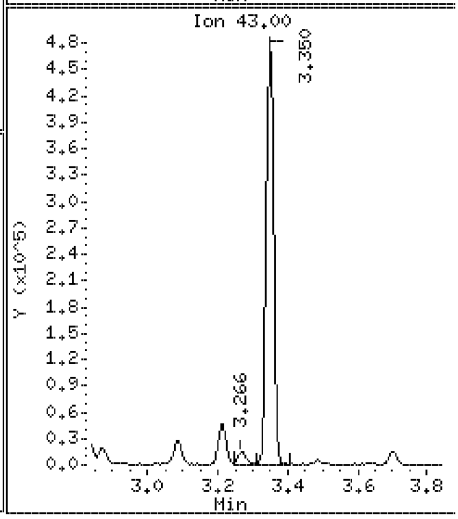












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

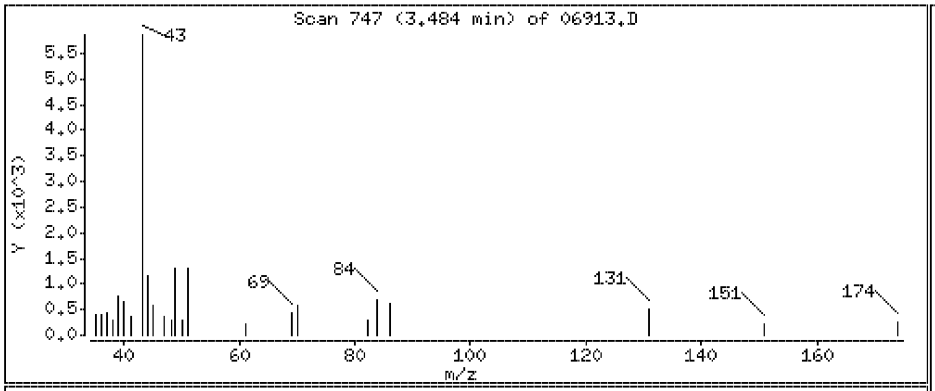
Operator: DR1

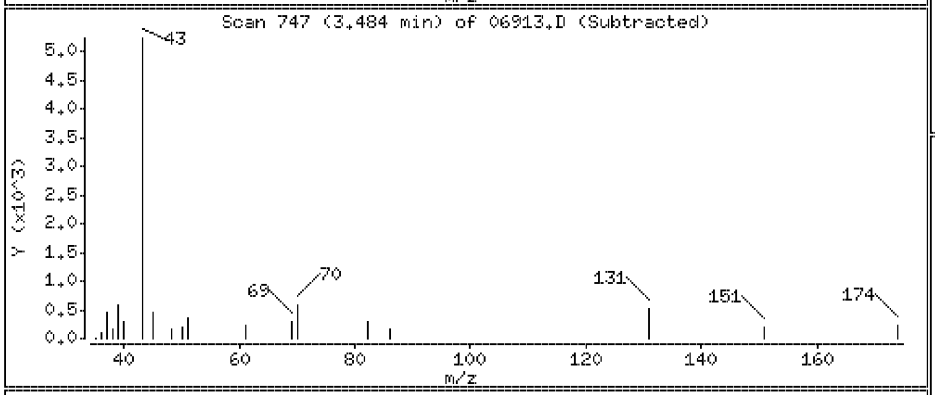
Column phase: J&W DB-5

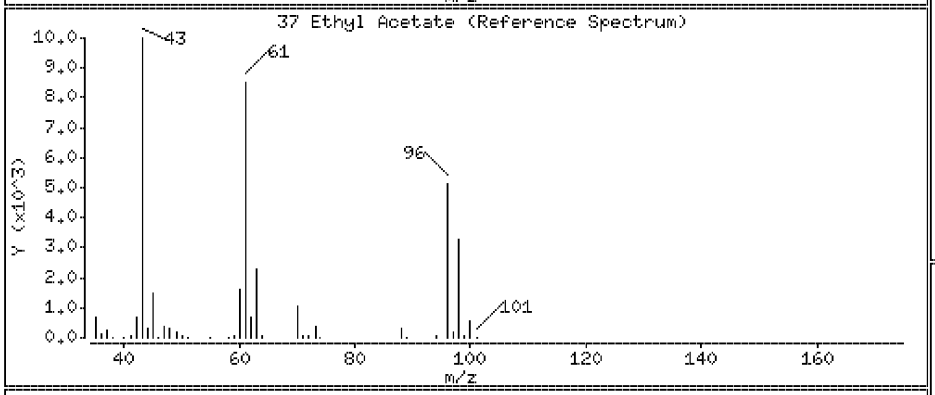
Column diameter: 0.32

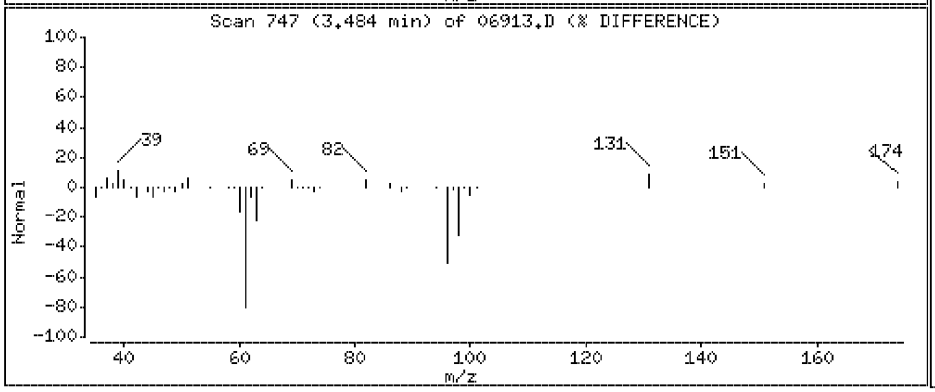
37 Ethyl Acetate

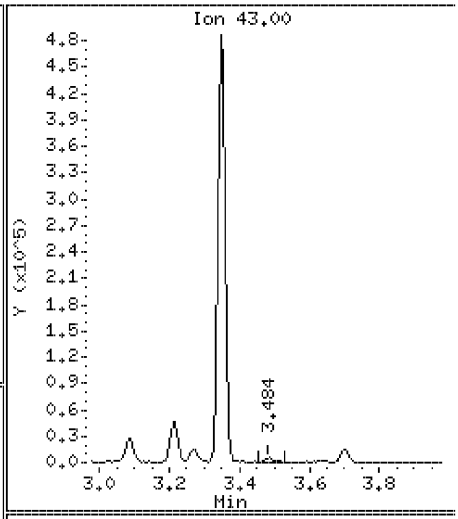
Concentration: 0.222 ppbv

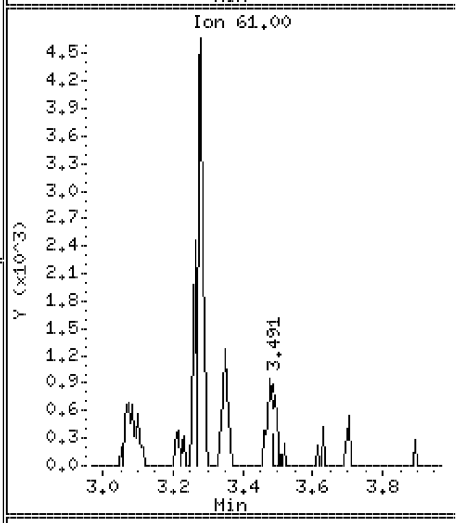


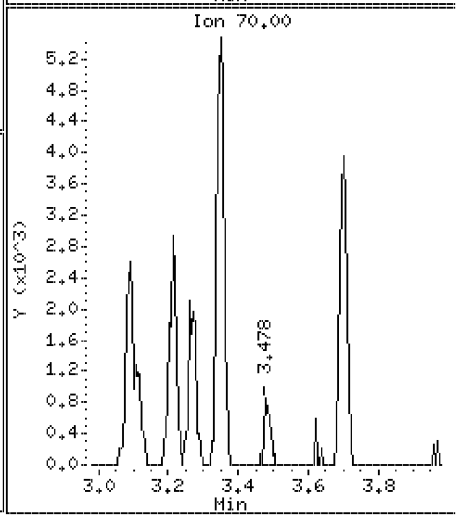












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

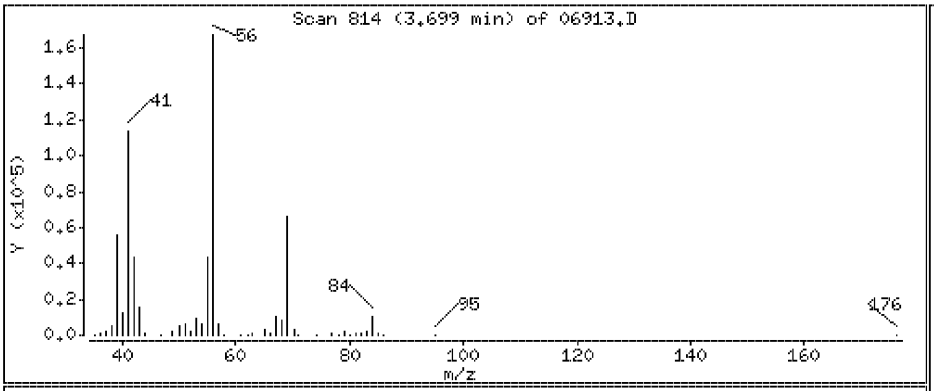
Operator: DR1

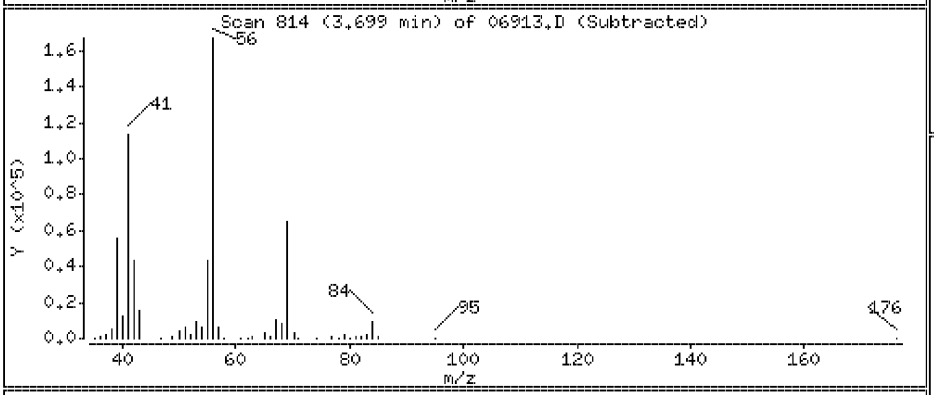
Column phase: J&W DB-5

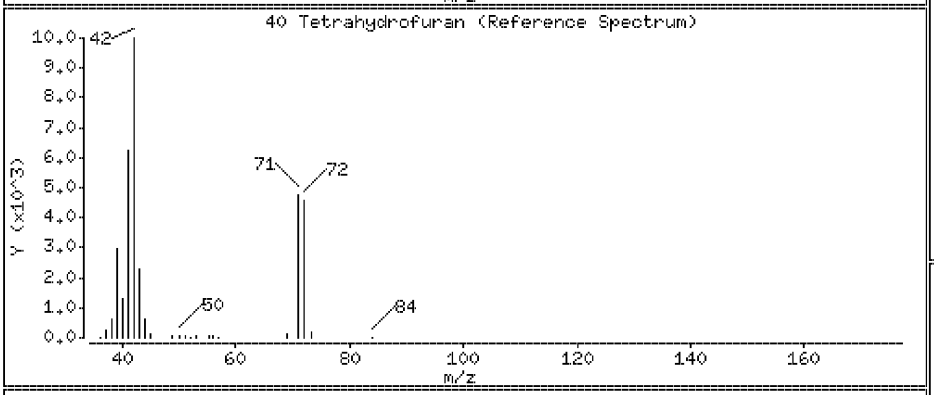
Column diameter: 0.32

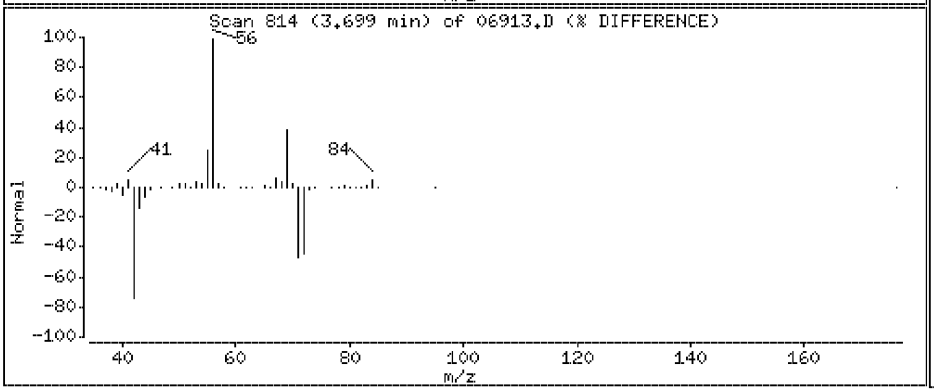
40 Tetrahydrofuran

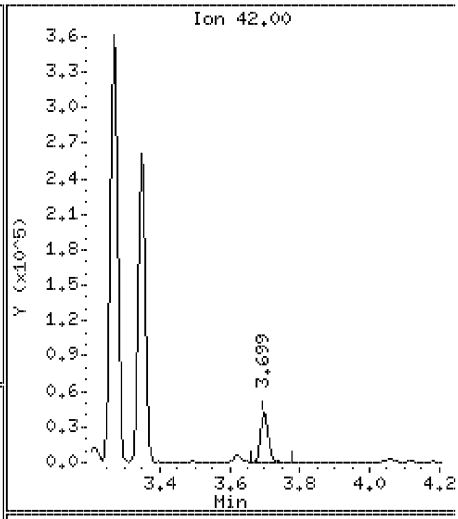
Concentration: 3.61 ppbv

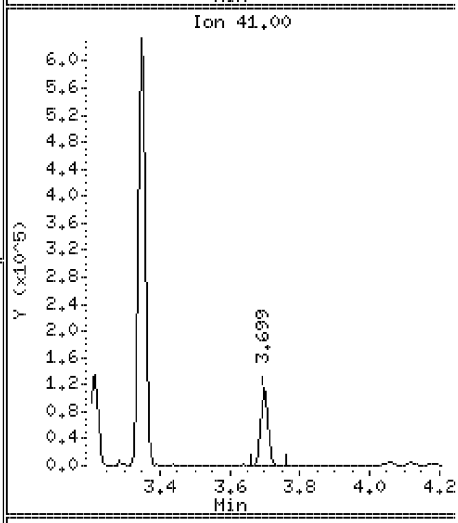


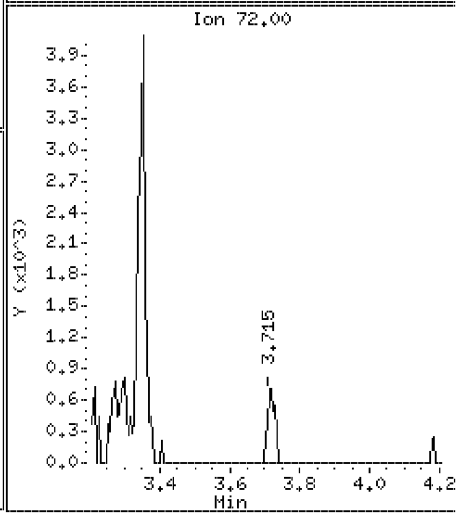












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

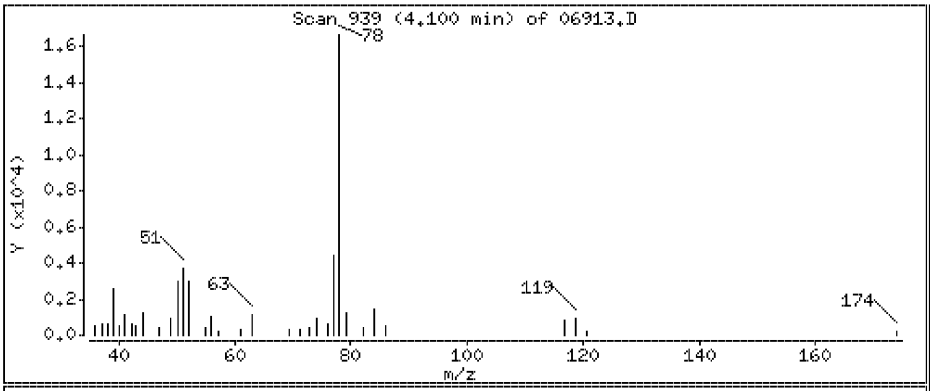
Operator: DR1

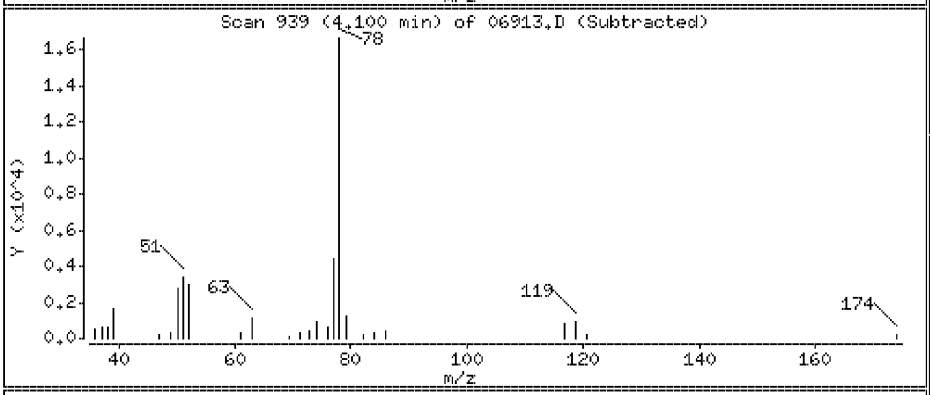
Column phase: J&W DB-5

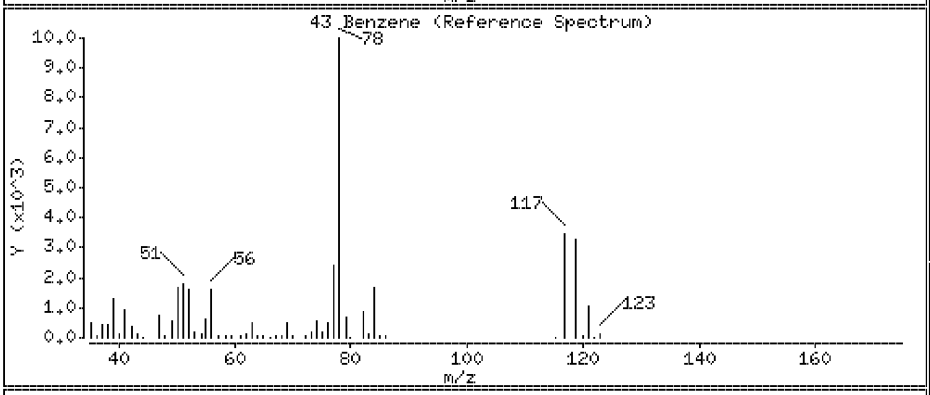
Column diameter: 0.32

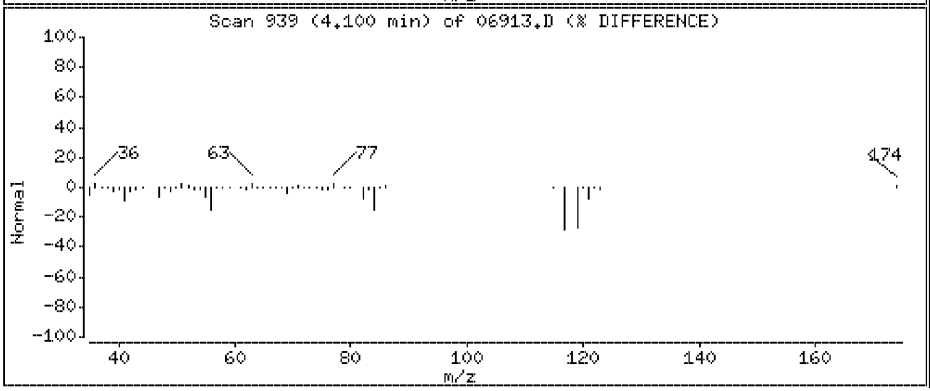
43 Benzene

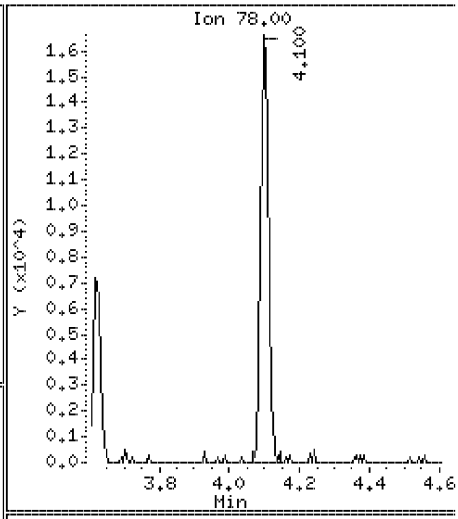
Concentration: 0.581 ppbv

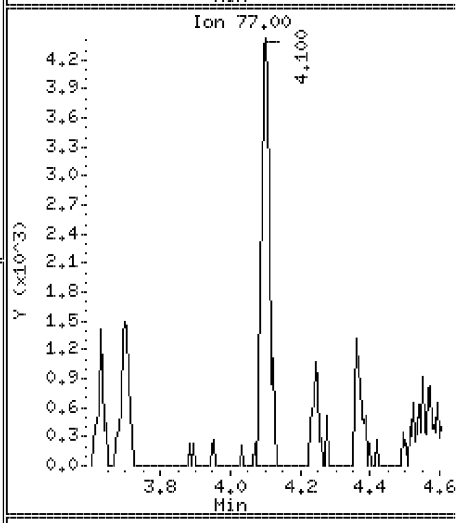


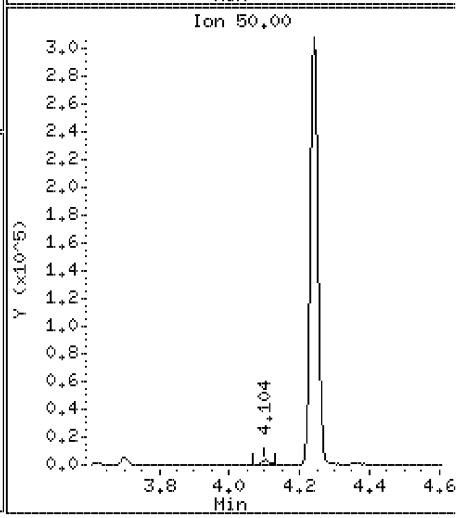












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

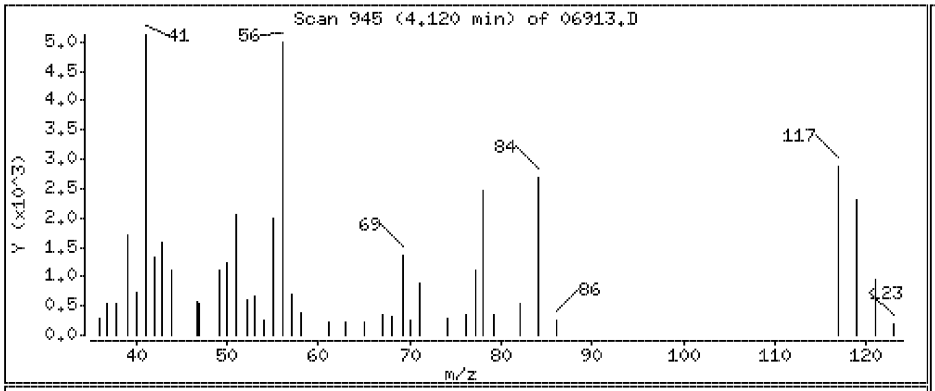
Operator: DR1

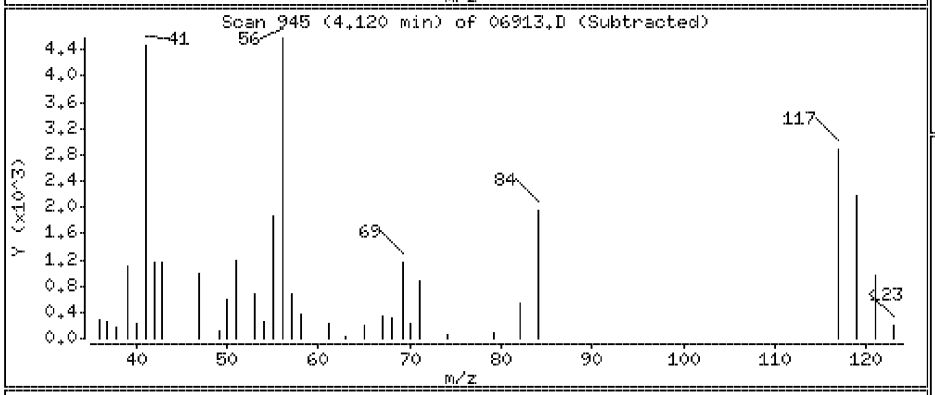
Column phase: J&W DB-5

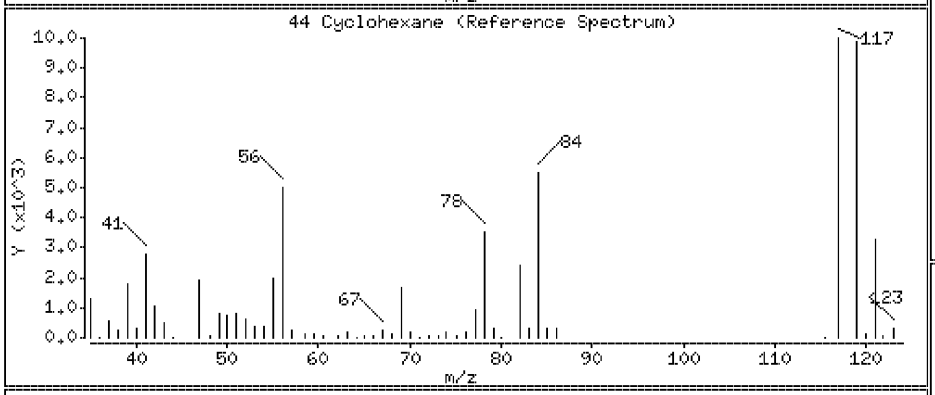
Column diameter: 0.32

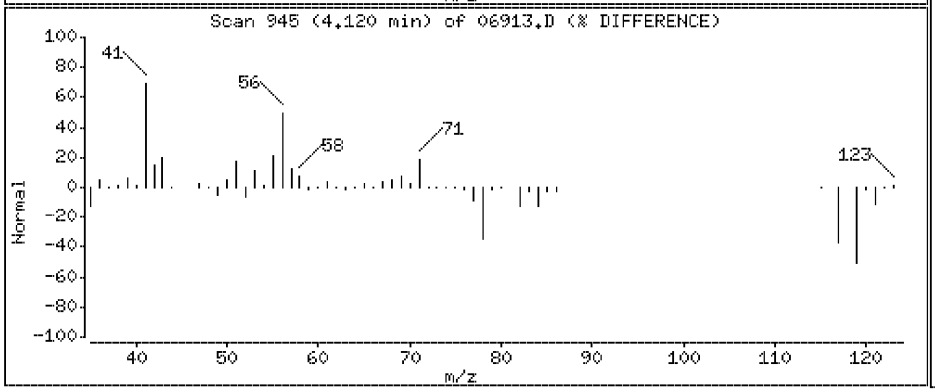
44 Cyclohexane

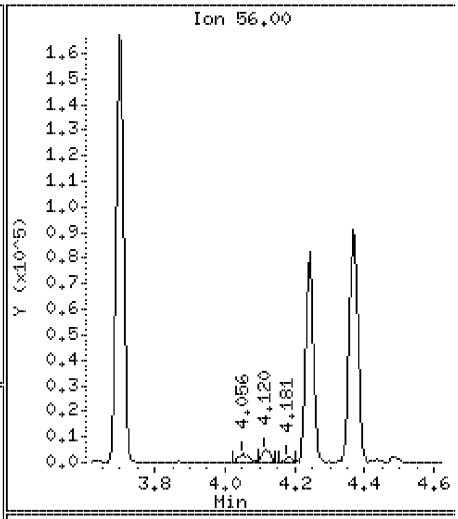
Concentration: 0.380 ppbv

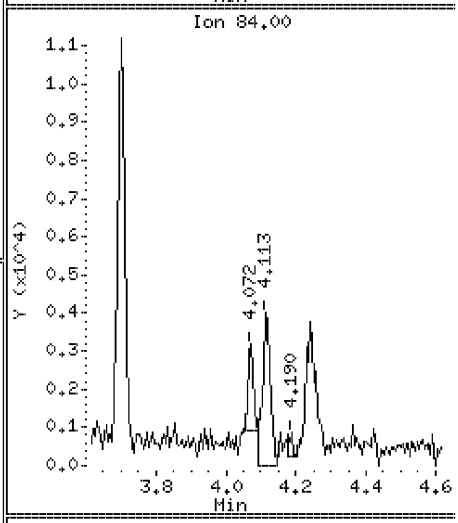


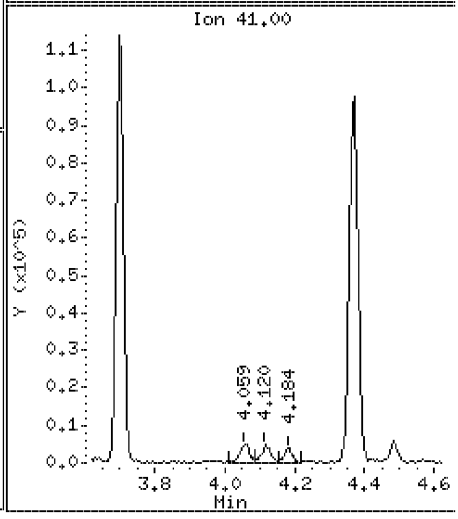












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

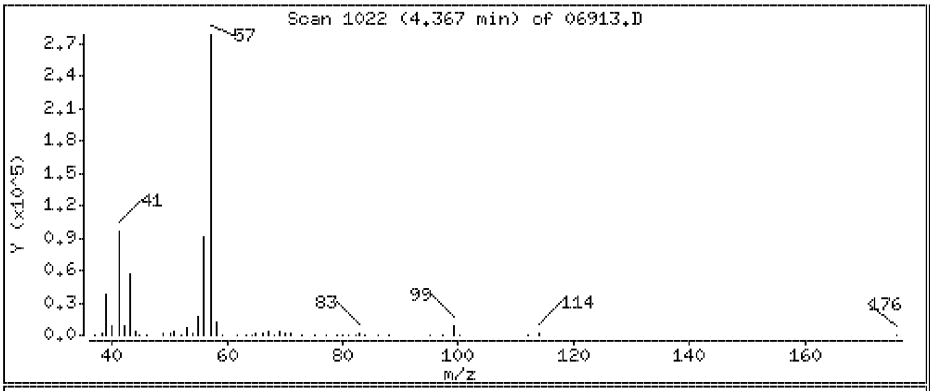
Operator: DR1

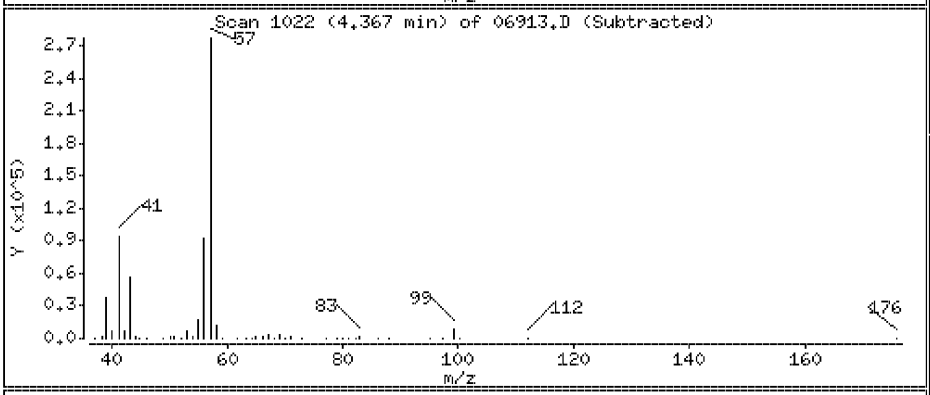
Column phase: J&W DB-5

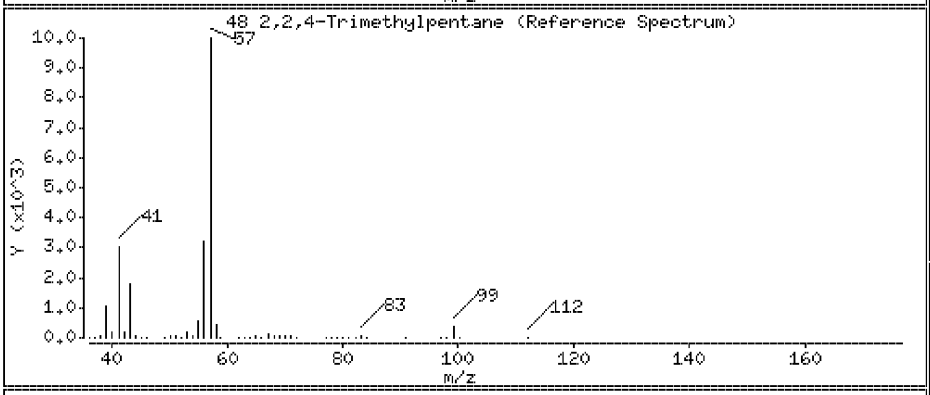
Column diameter: 0.32

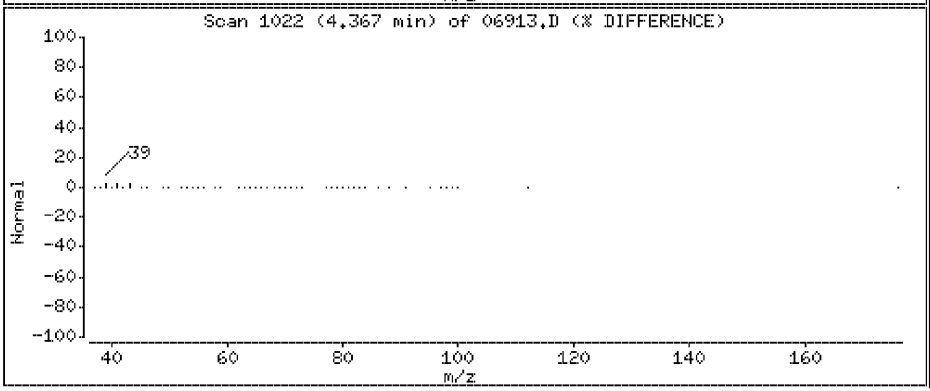
48 2,2,4-Trimethylpentane

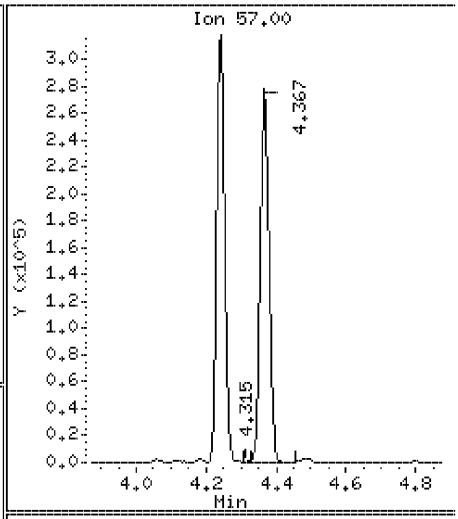
Concentration: 6.62 ppbv

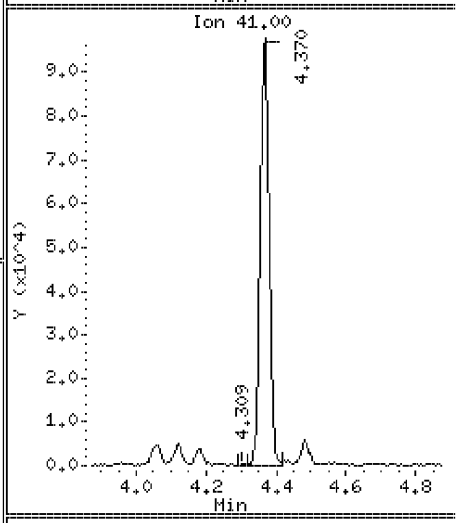


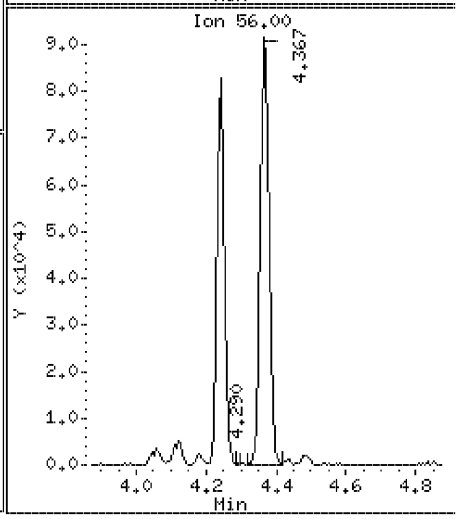












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

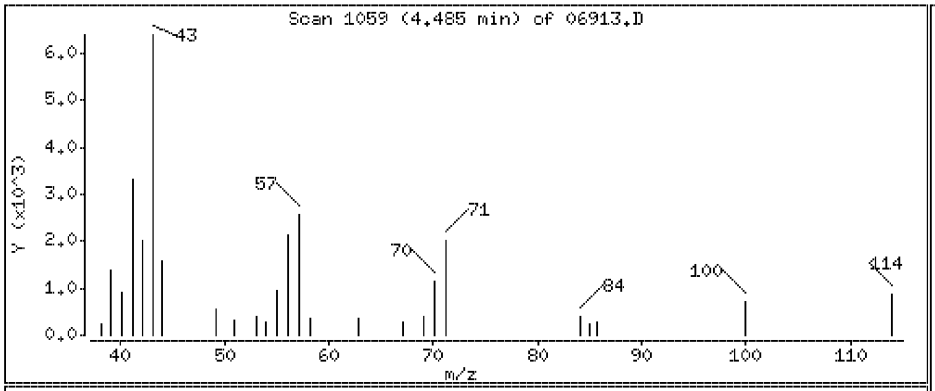
Operator: DR1

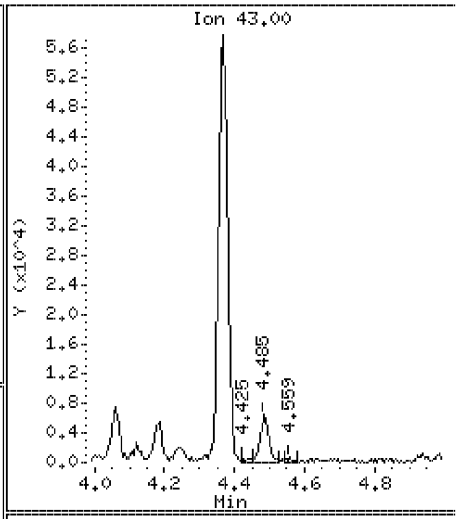
Column phase: J&W DB-5

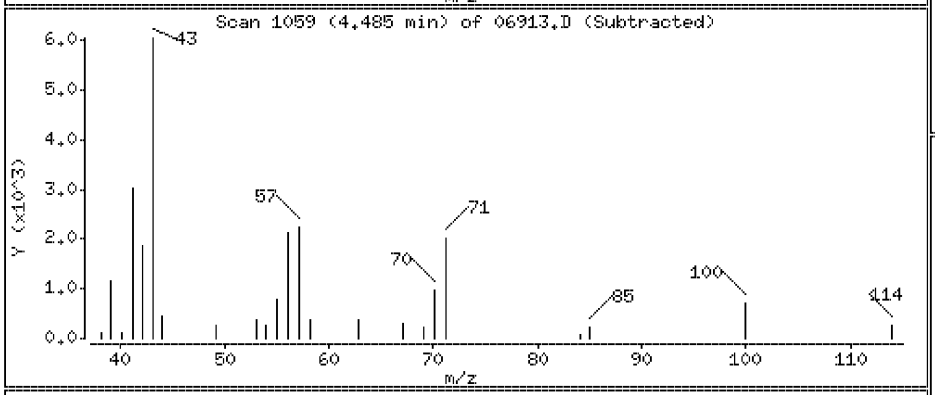
Column diameter: 0.32

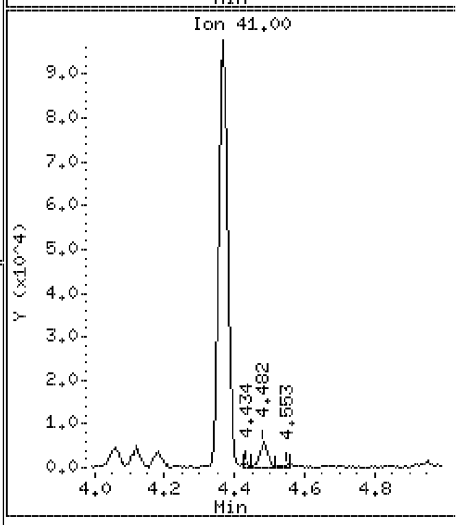
49 Heptane

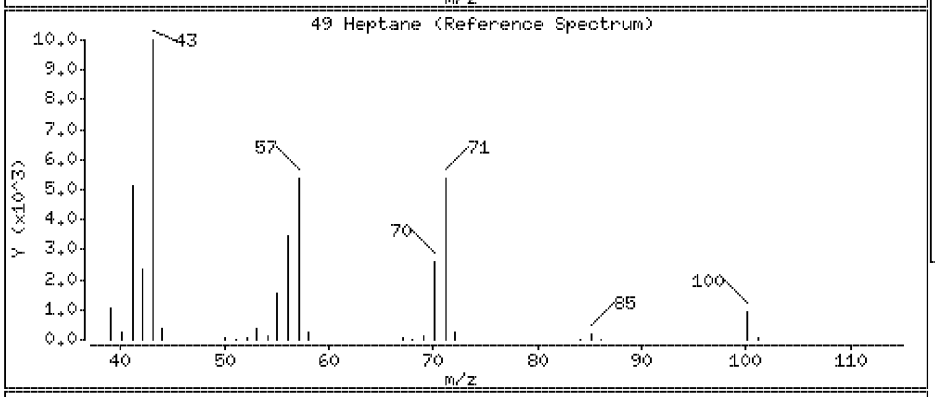
Concentration: 0.314 ppbv

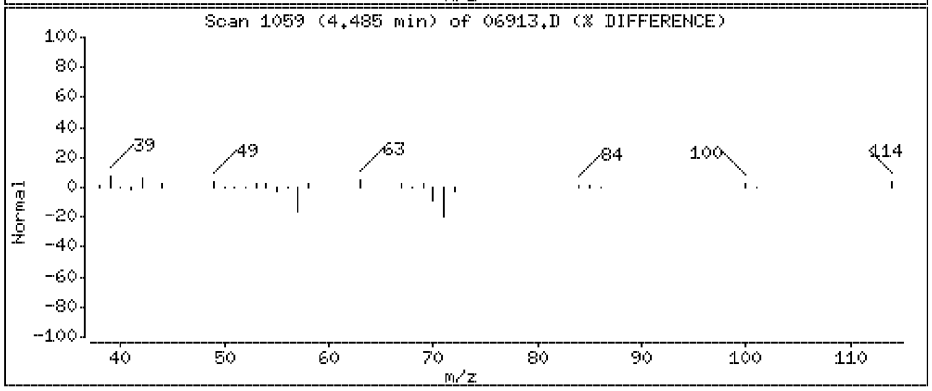












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

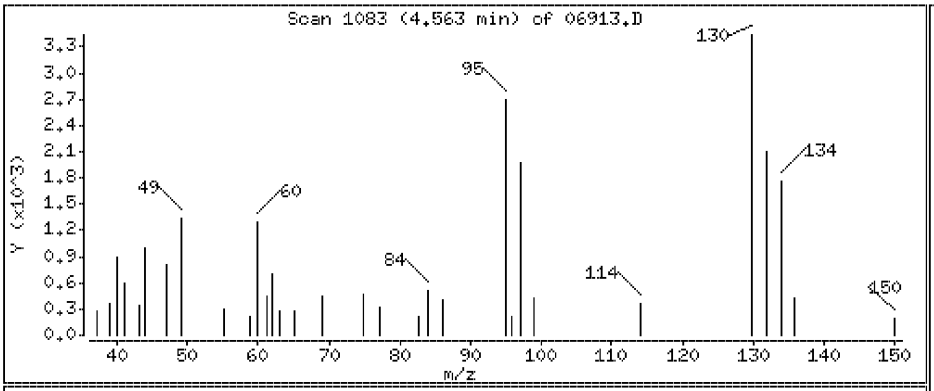
Operator: DR1

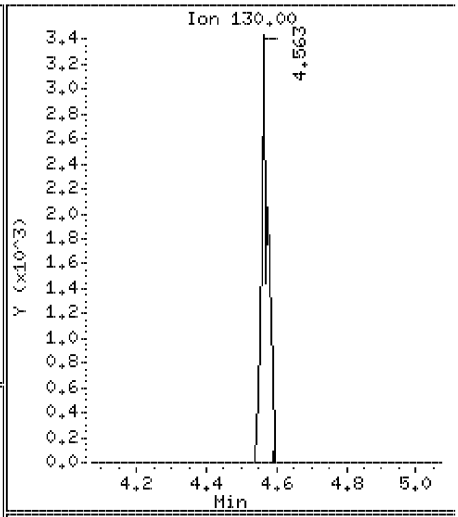
Column phase: J&W DB-5

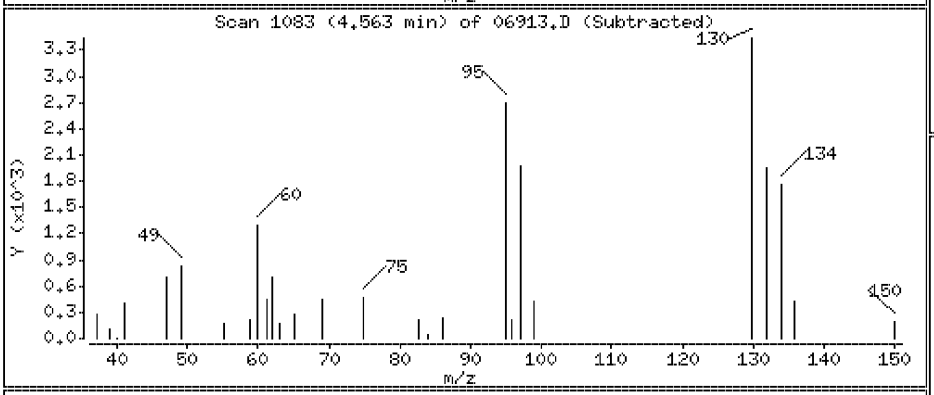
Column diameter: 0.32

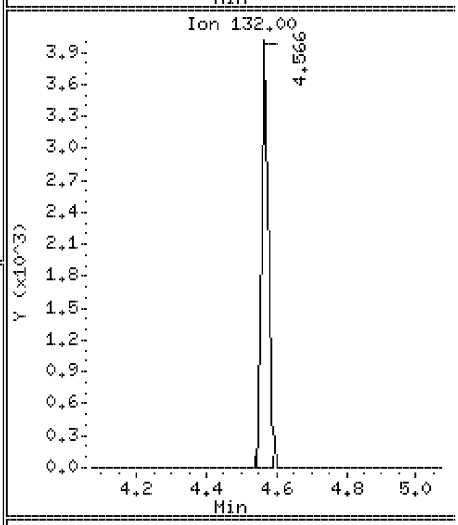
51 Trichloroethene

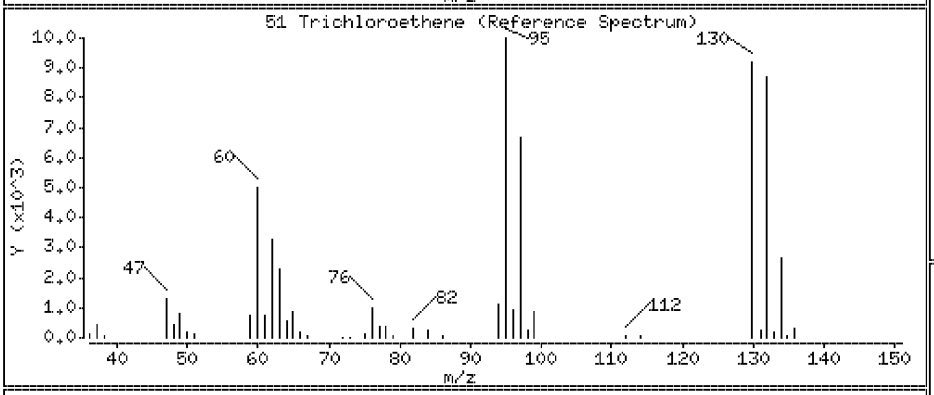
Concentration: 0.191 ppbv

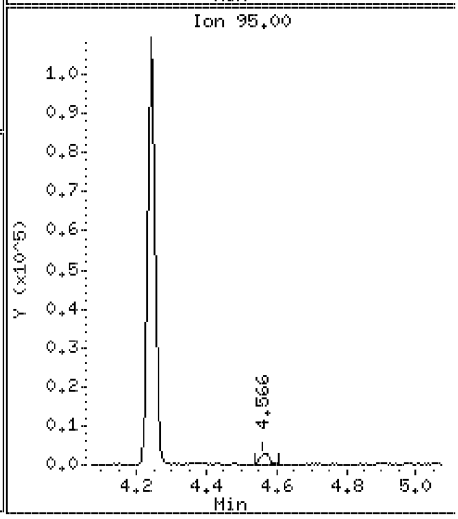


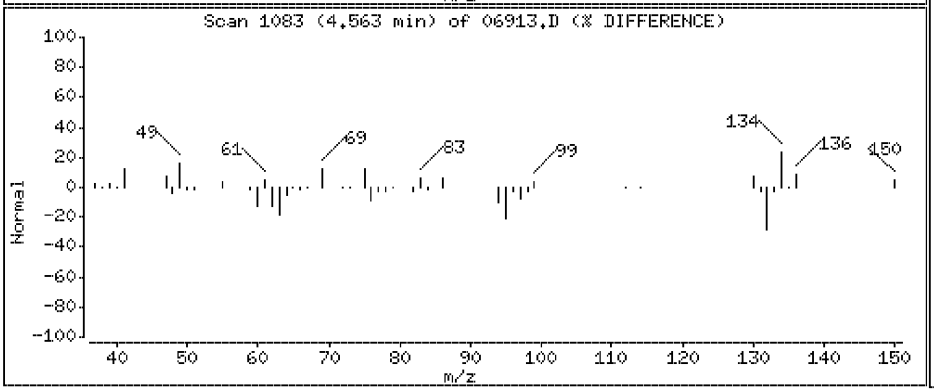












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

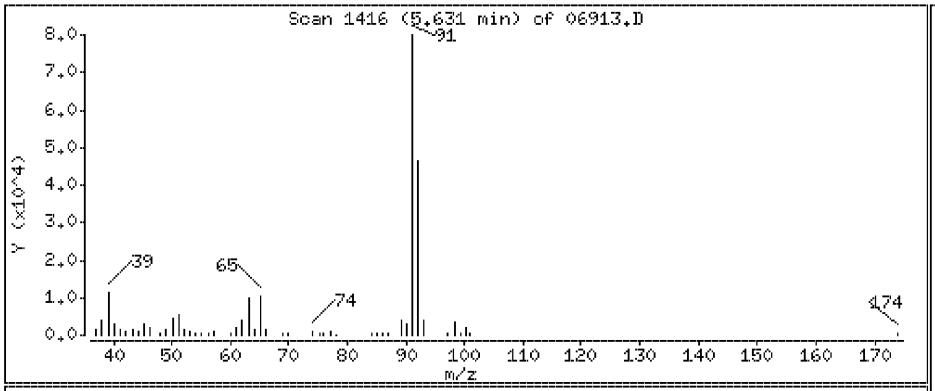
Operator: DR1

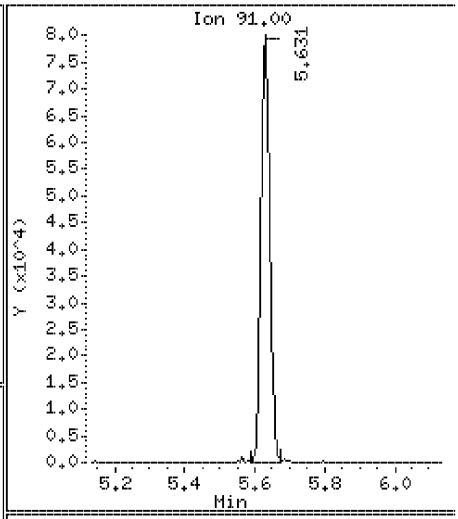
Column phase: J&W DB-5

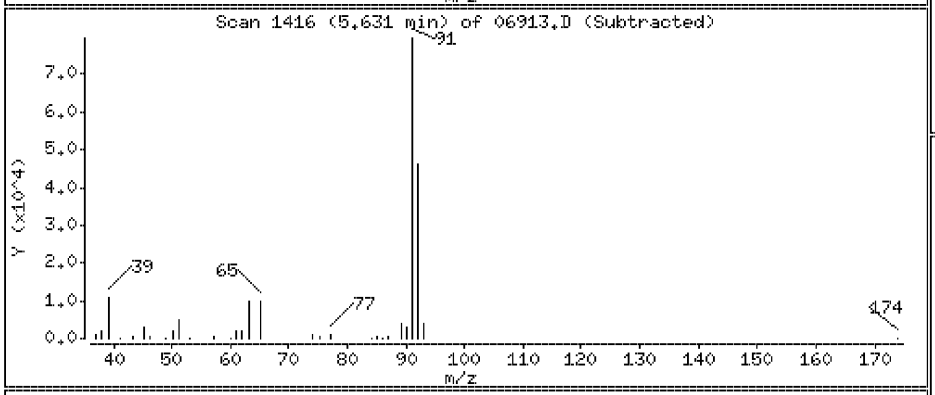
Column diameter: 0.32

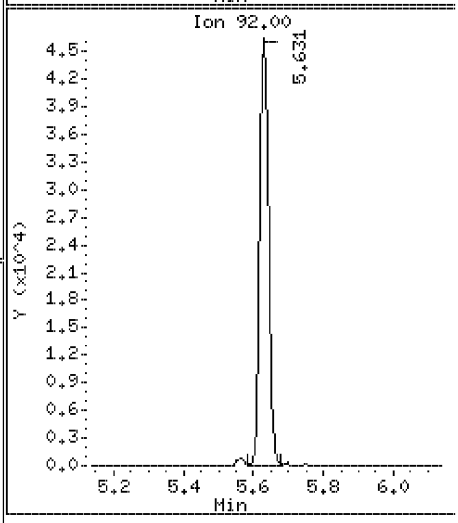
60 Toluene

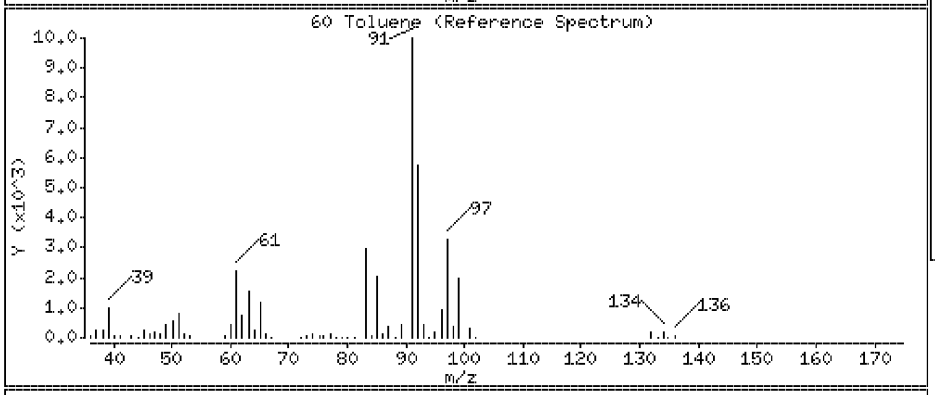
Concentration: 2.42 ppbv

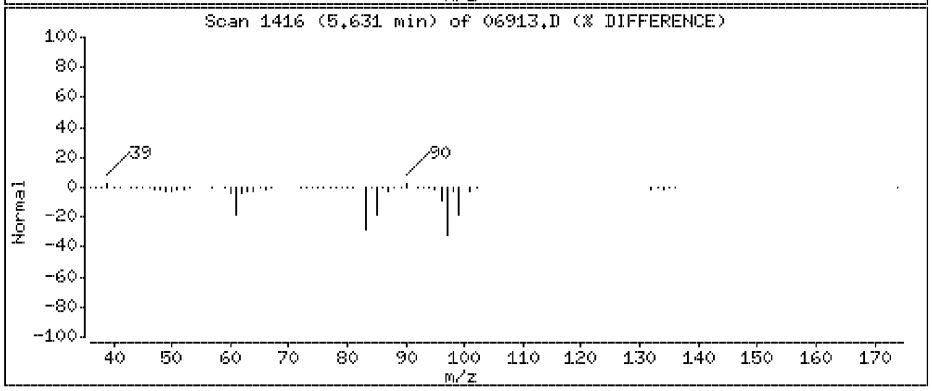












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

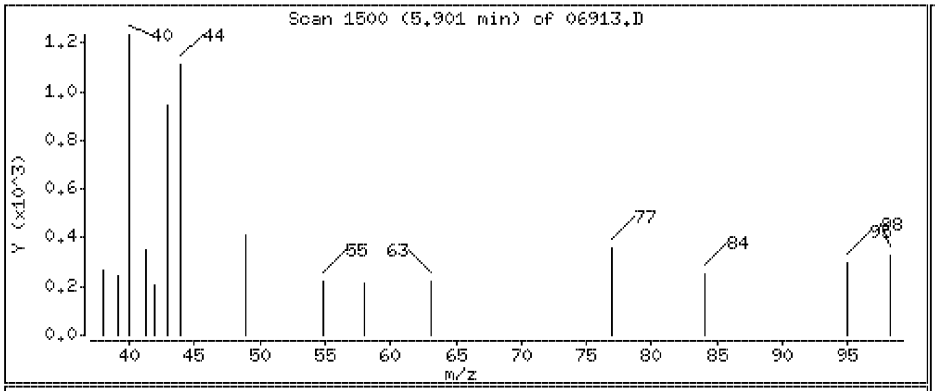
Operator: DR1

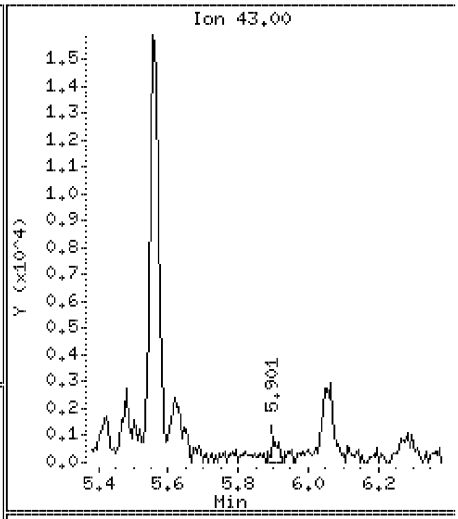
Column phase: J&W DB-5

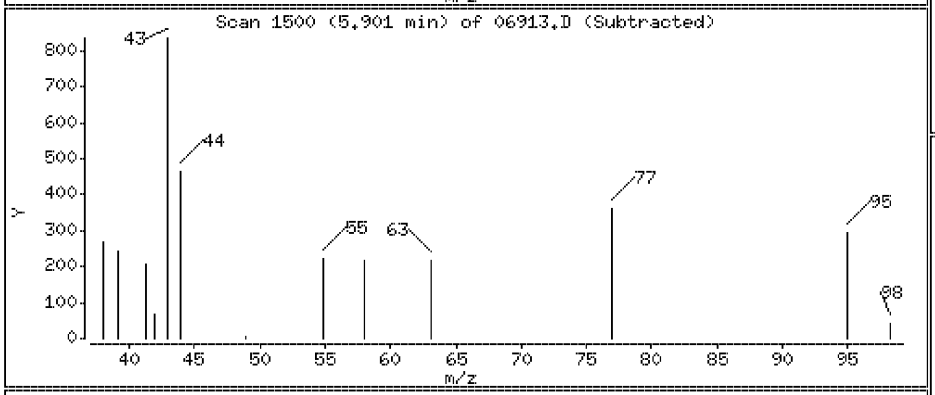
Column diameter: 0.32

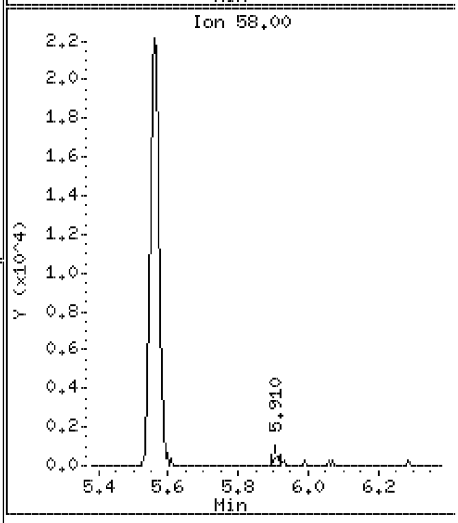
62 Methyl Butyl Ketone

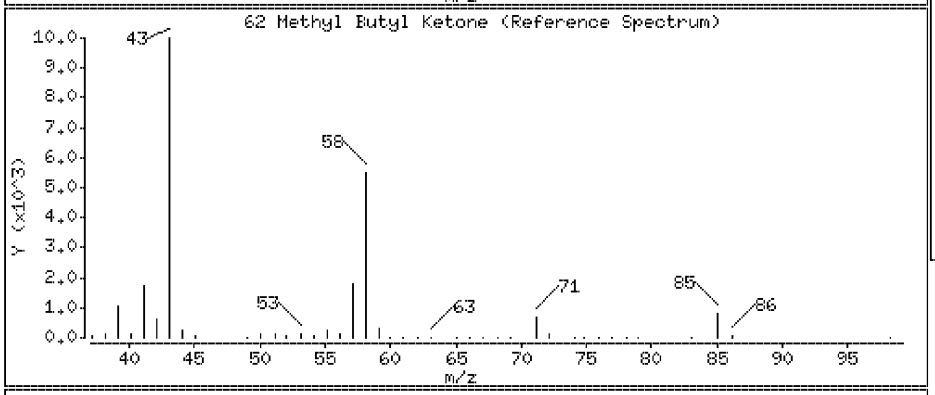
Concentration: 0.0317 ppbv

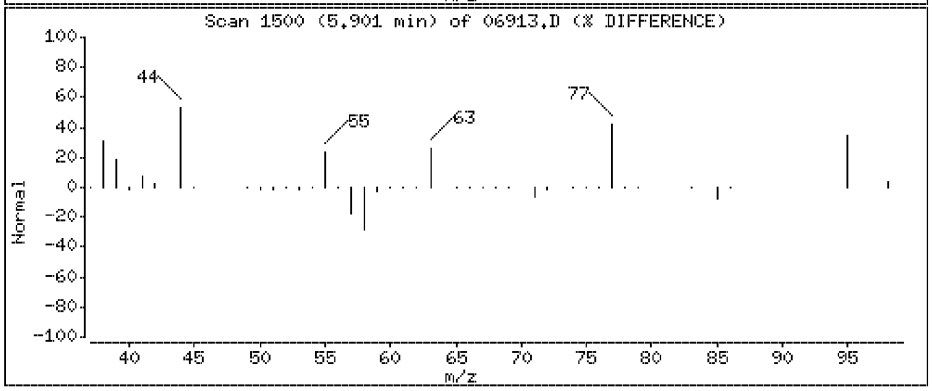












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

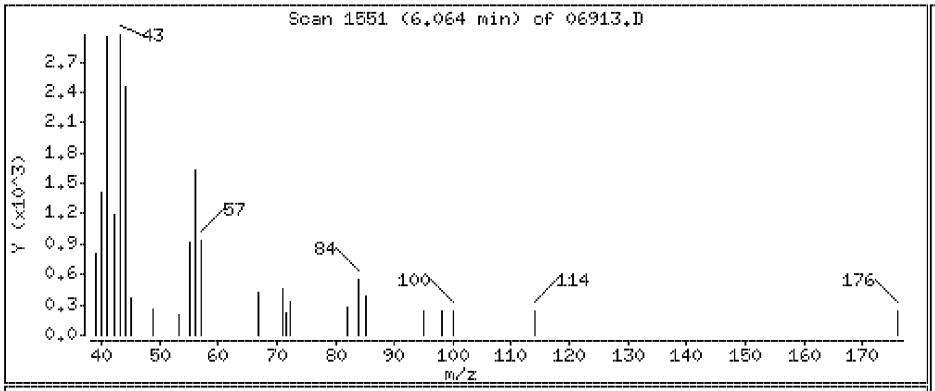
Operator: DR1

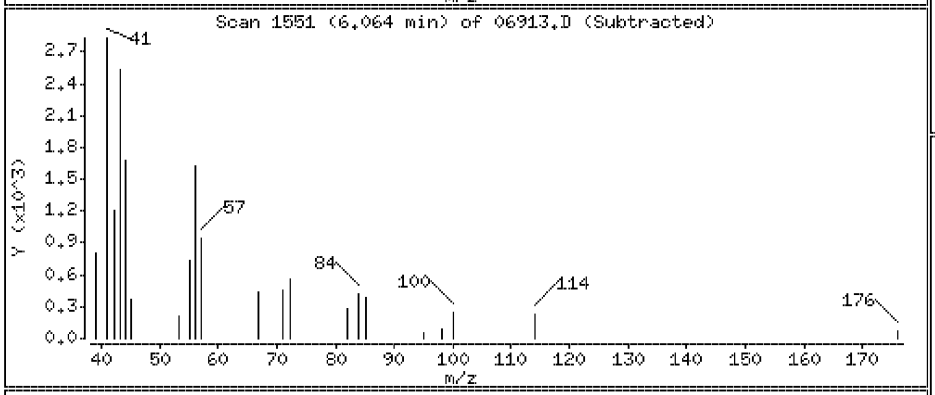
Column phase: J&W DB-5

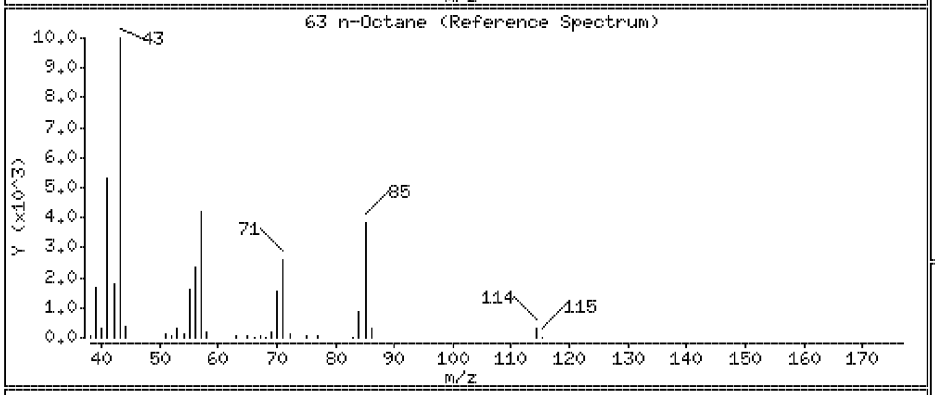
Column diameter: 0.32

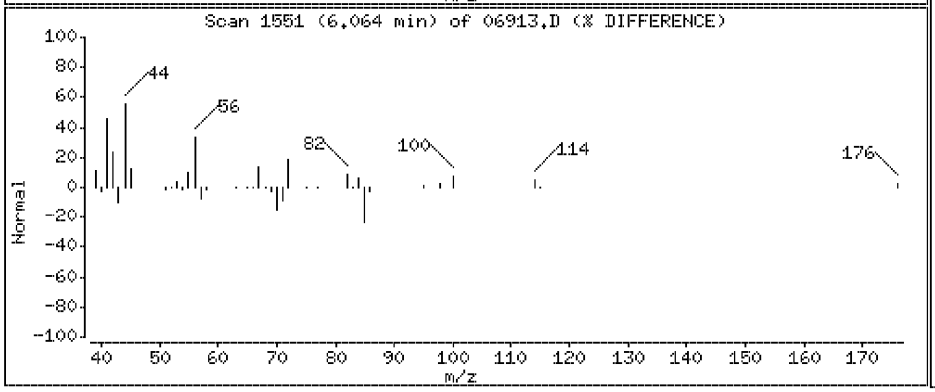
63 n-Octane

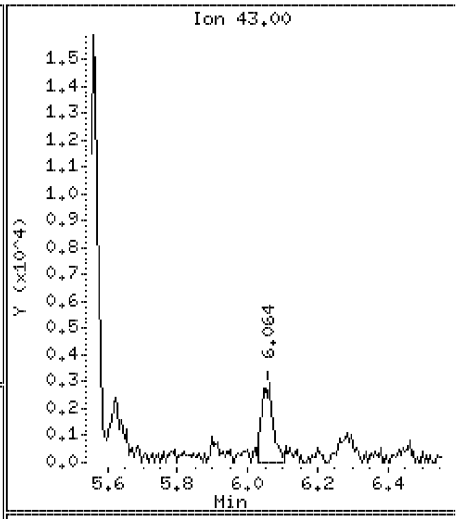
Concentration: 0.167 ppbv

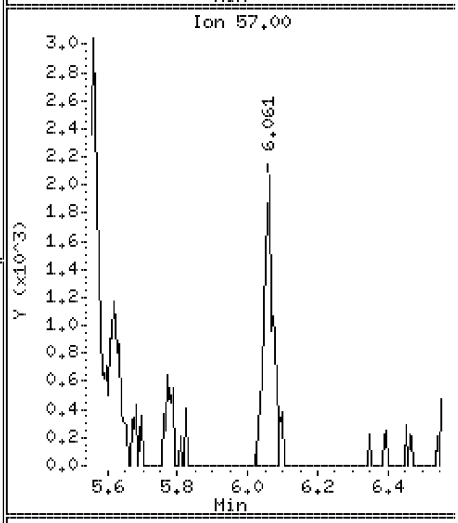


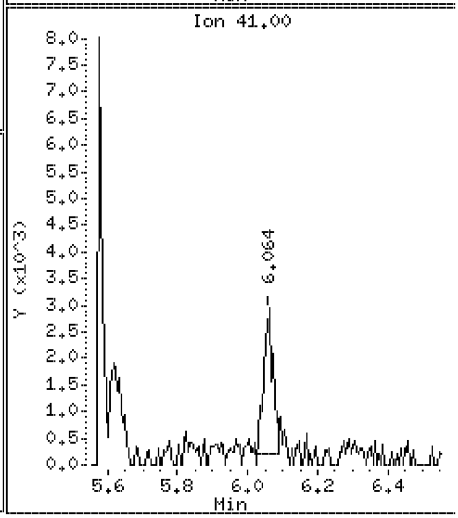












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

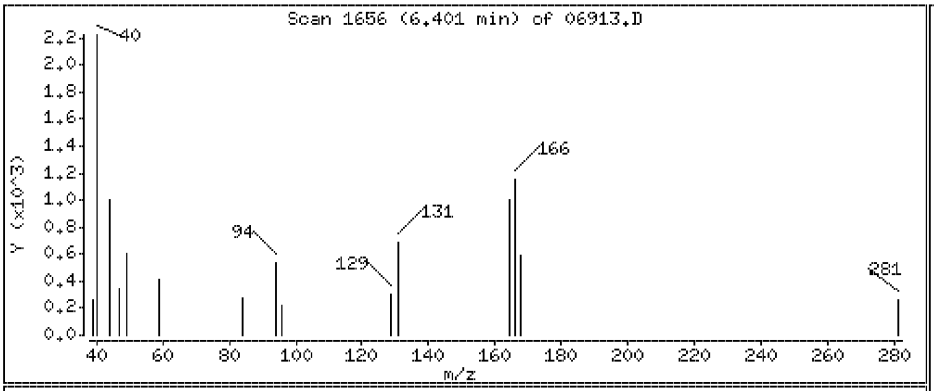
Operator: DR1

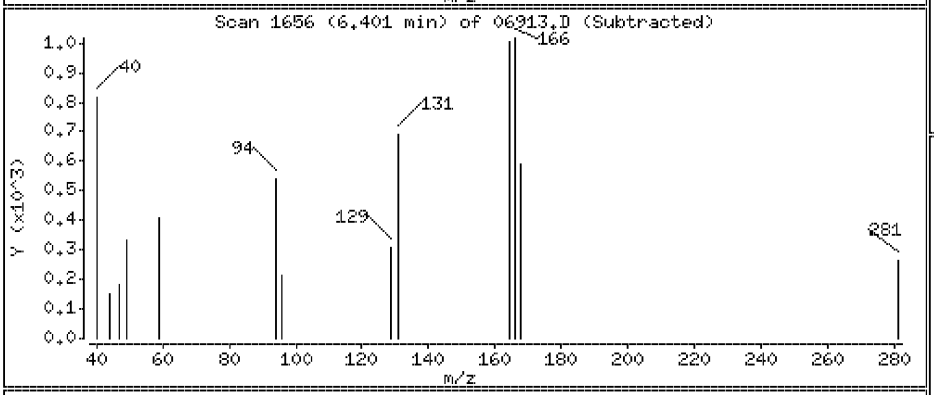
Column phase: J&W DB-5

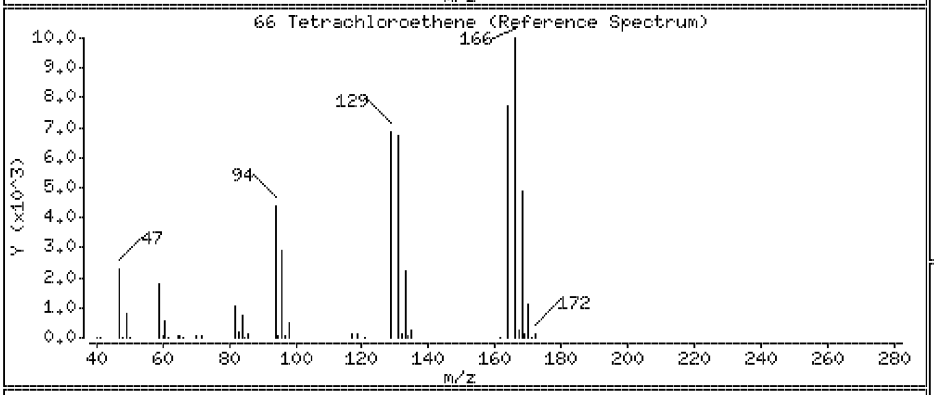
Column diameter: 0.32

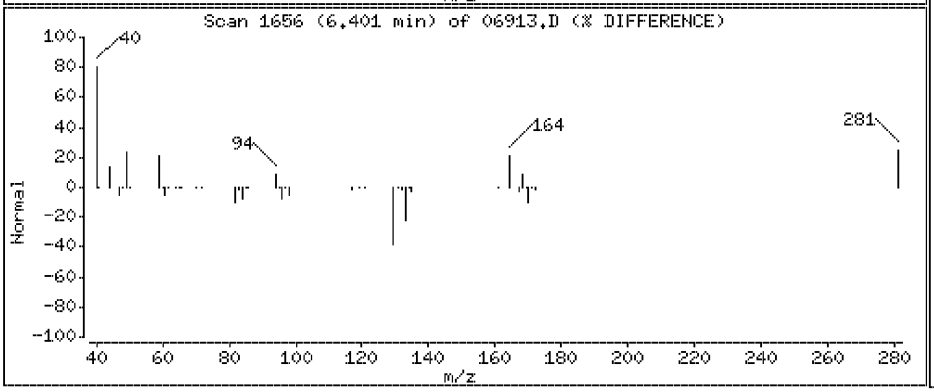
66 Tetrachloroethene

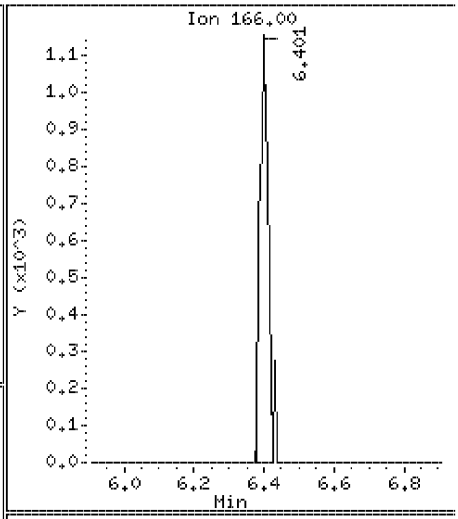
Concentration: 0.0523 ppbv

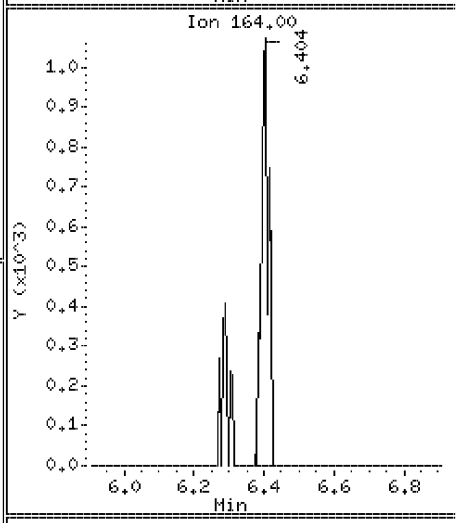


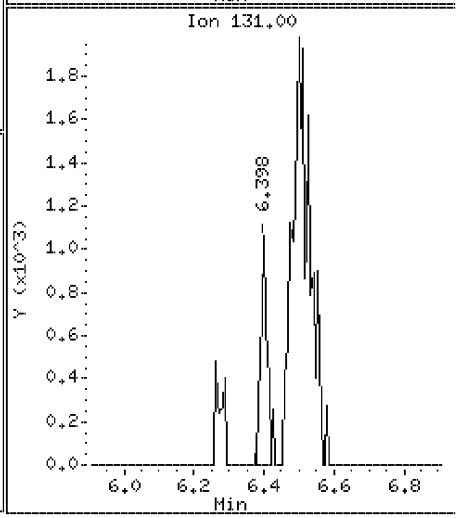












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

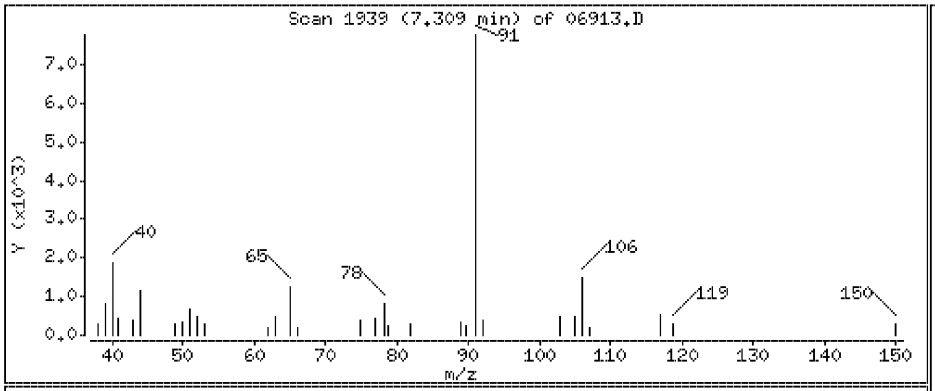
Operator: DR1

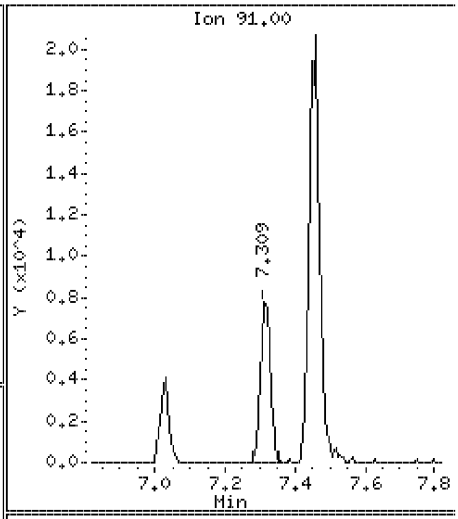
Column phase: J&W DB-5

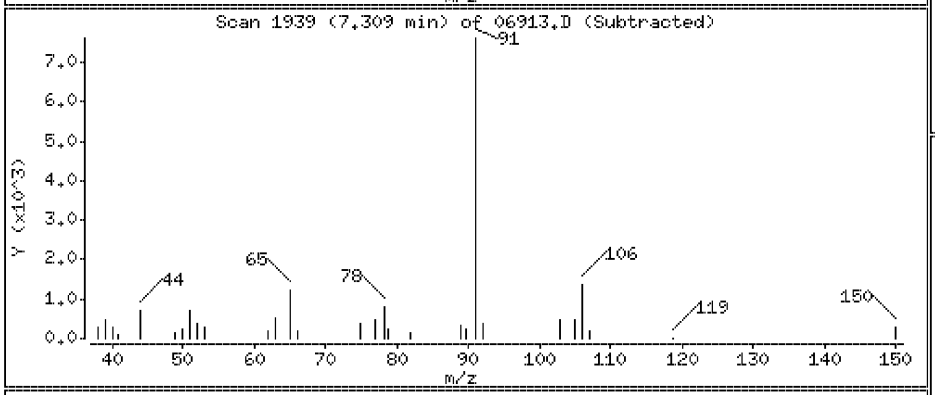
Column diameter: 0.32

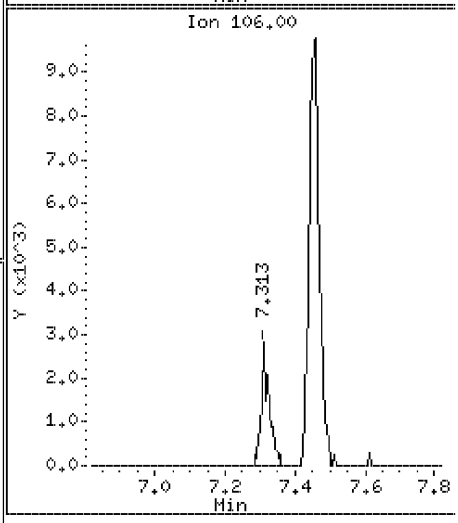
69 Ethyl Benzene

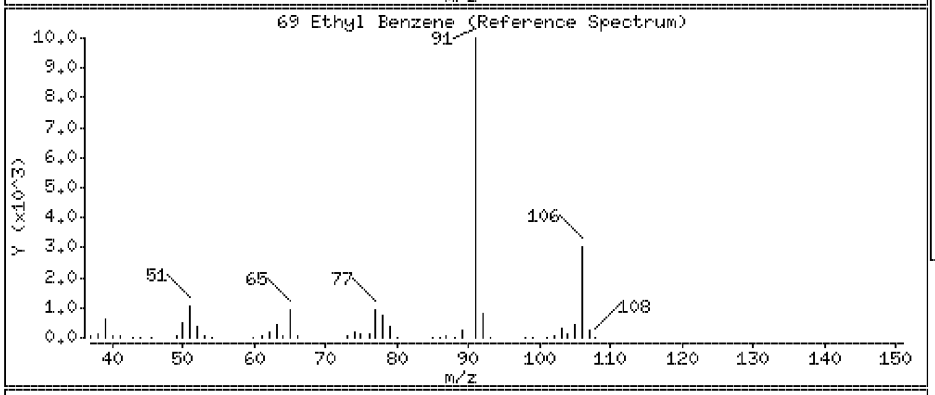
Concentration: 0.227 ppbv

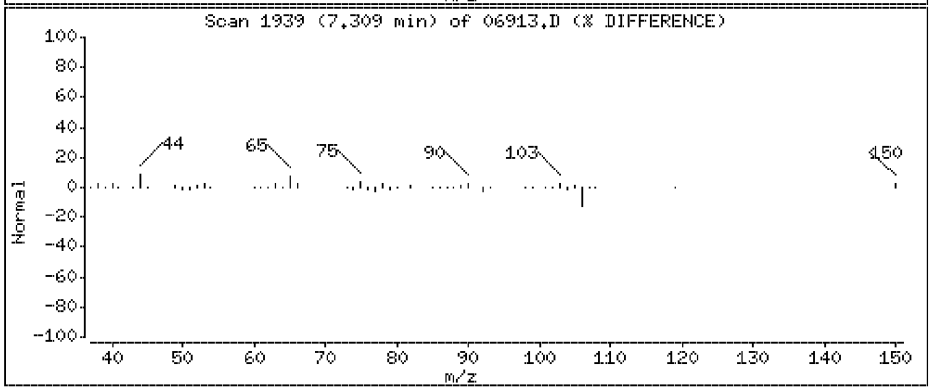












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

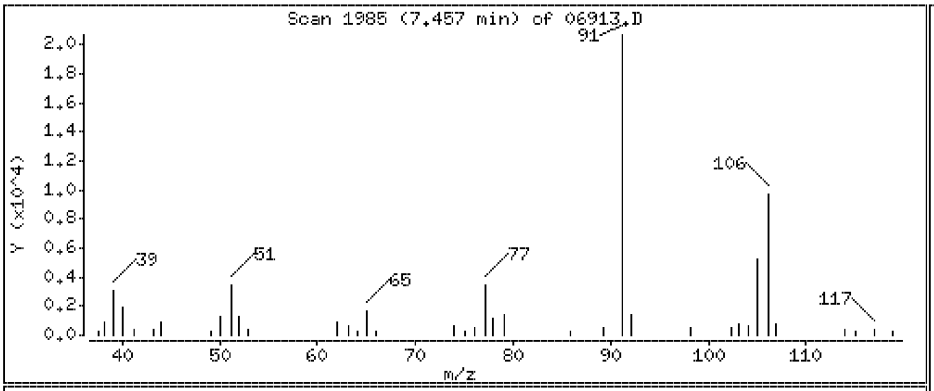
Operator: DR1

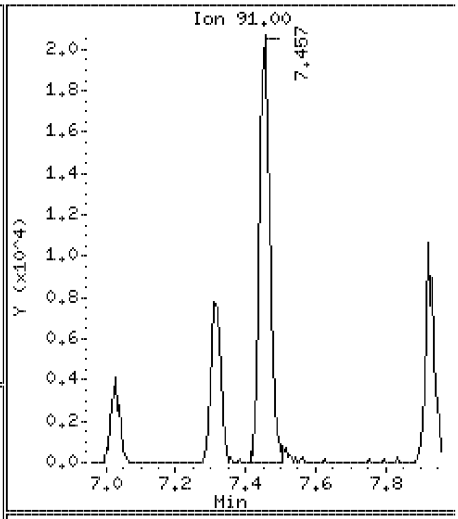
Column phase: J&W DB-5

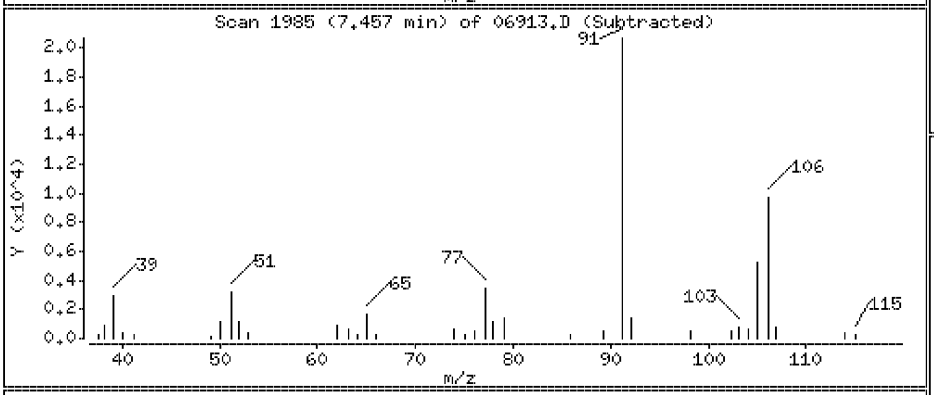
Column diameter: 0.32

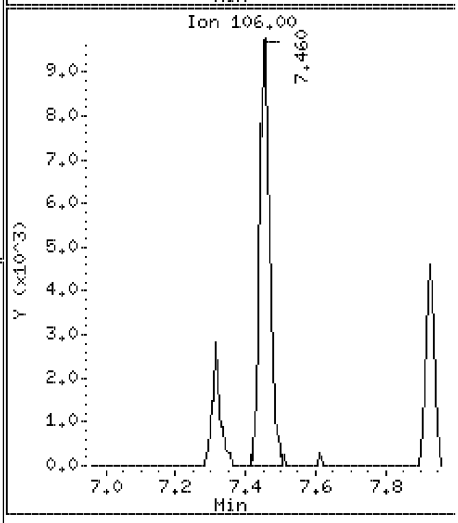
70 m&p-Xylene

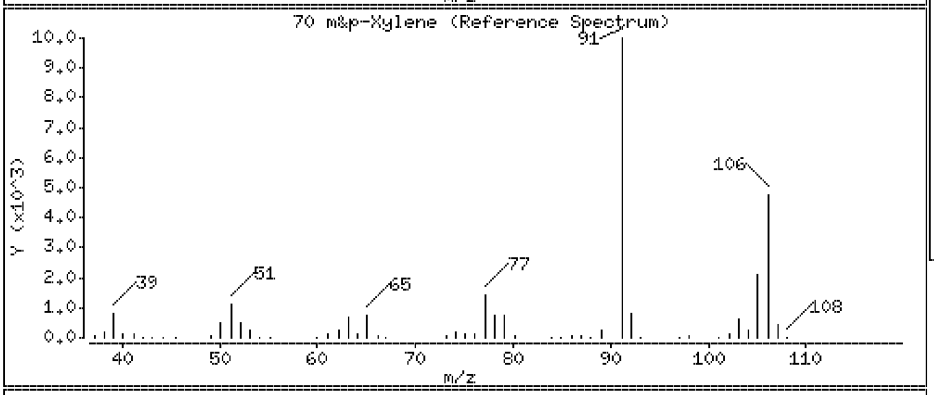
Concentration: 0.580 ppbv

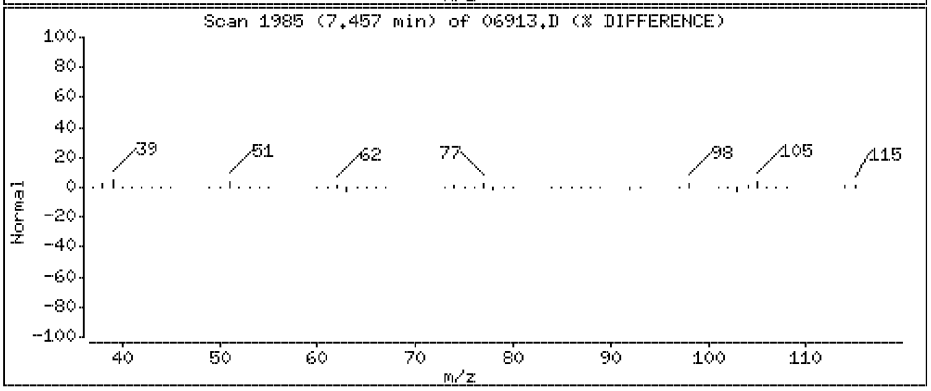












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

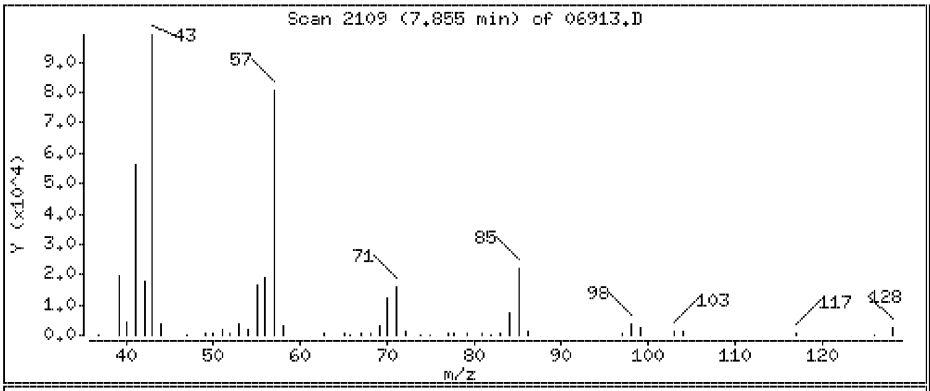
Operator: DR1

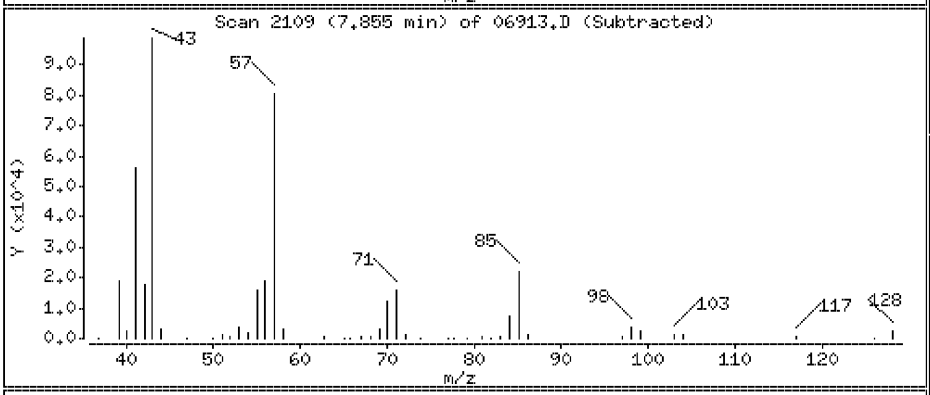
Column phase: J&W DB-5

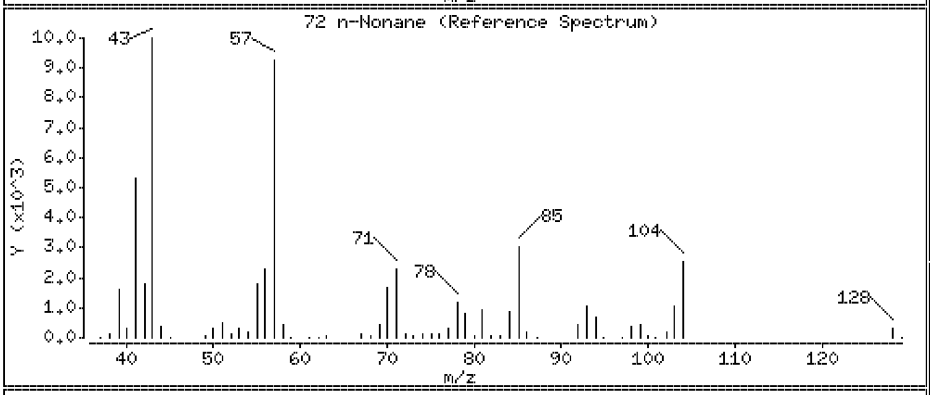
Column diameter: 0.32

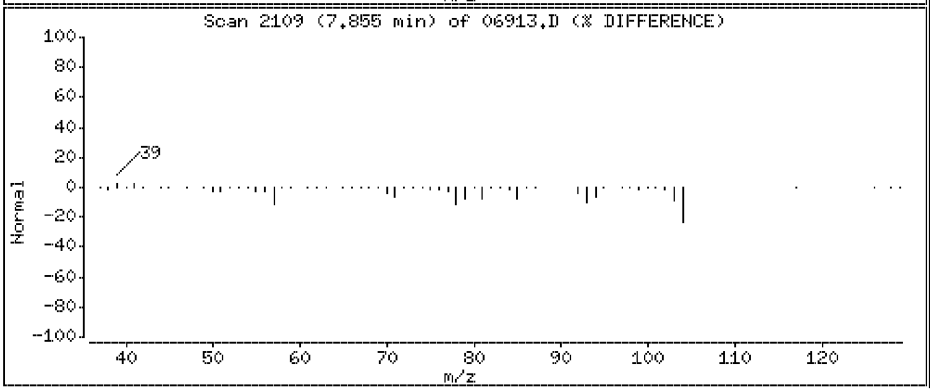
72 n-Nonane

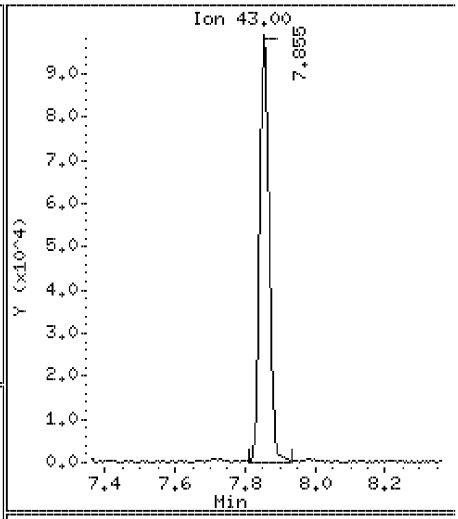
Concentration: 5.28 ppbv

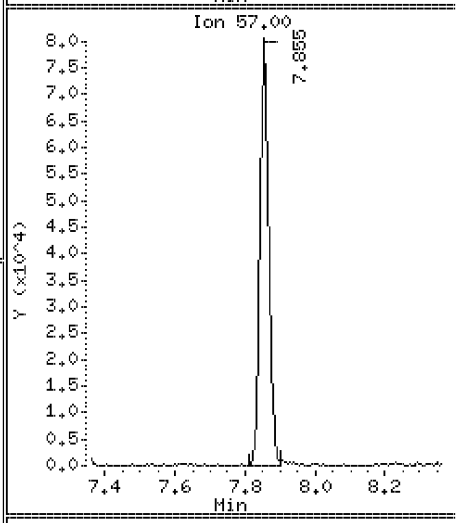


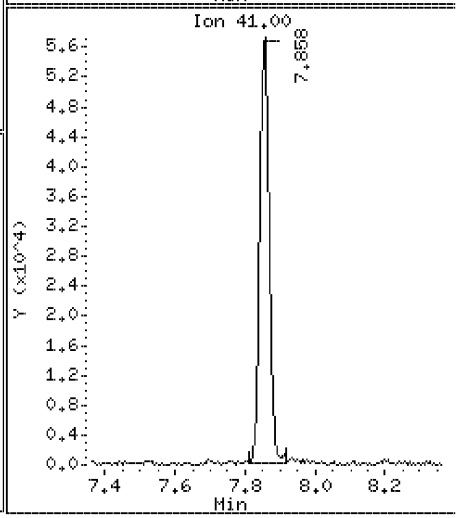












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

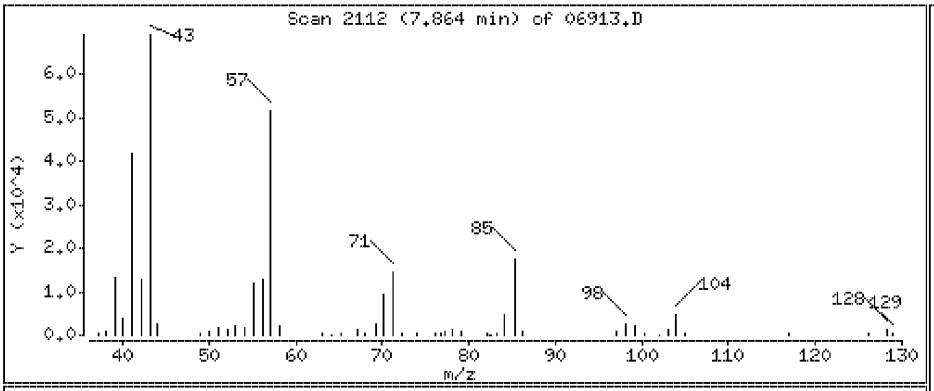
Operator: DR1

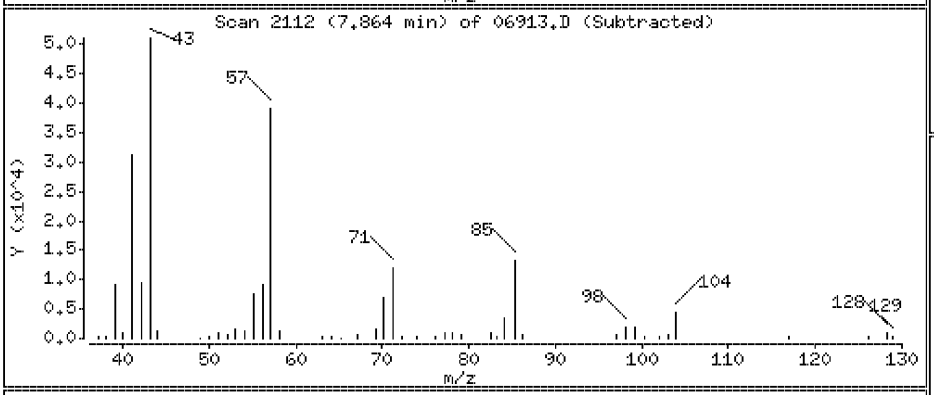
Column phase: J&W DB-5

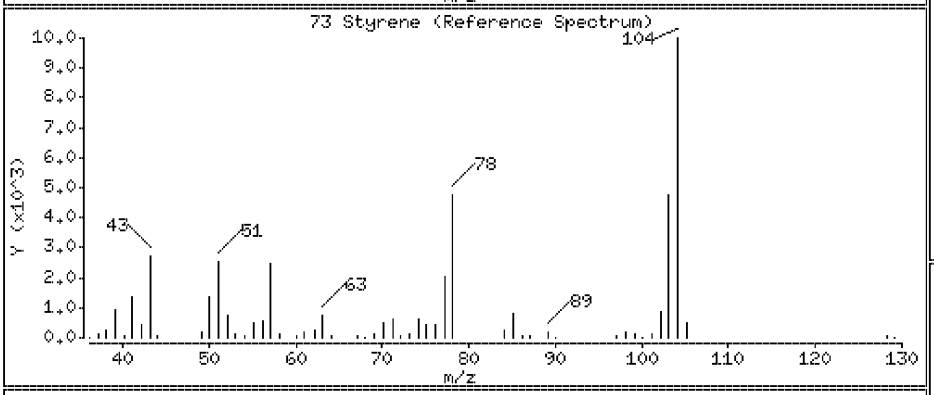
Column diameter: 0.32

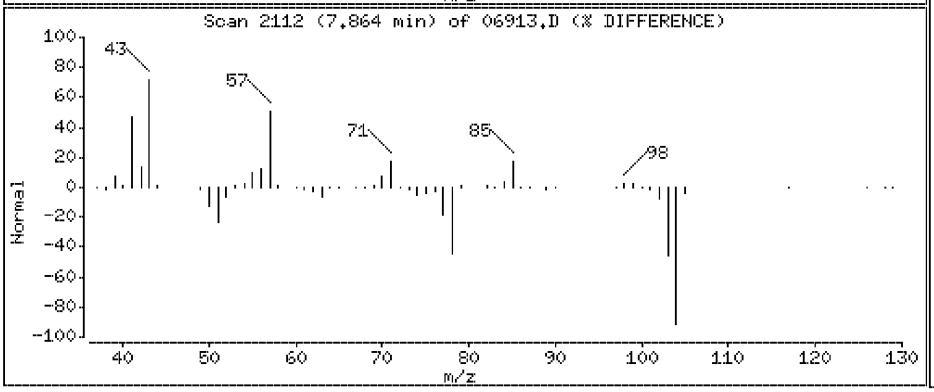
73 Styrene

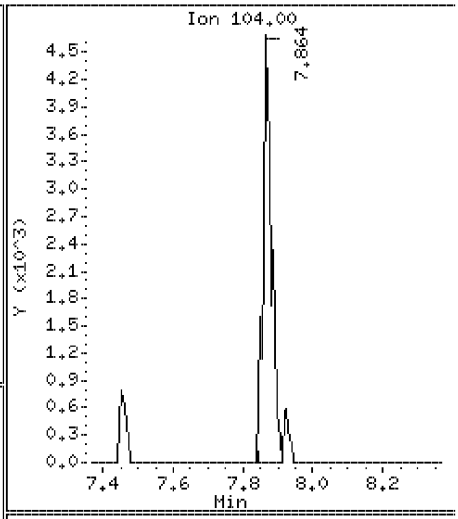
Concentration: 0.224 ppbv

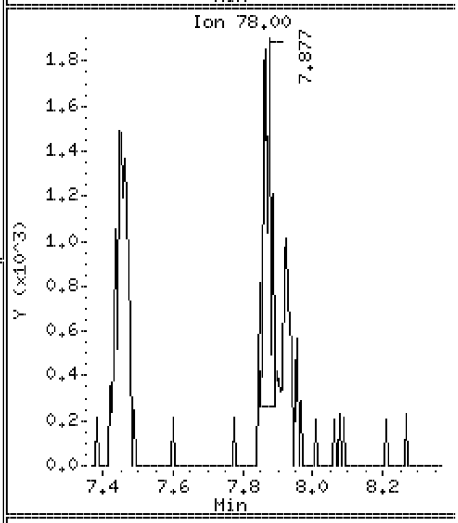


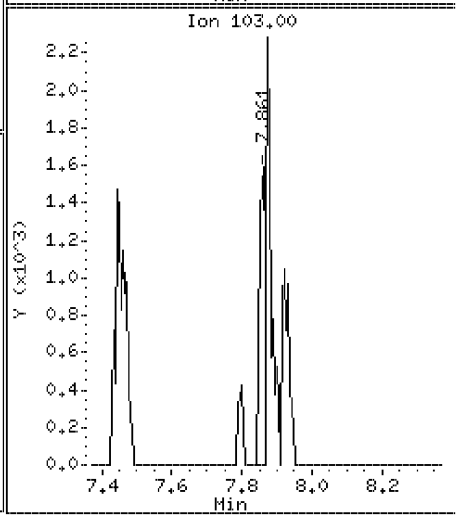












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

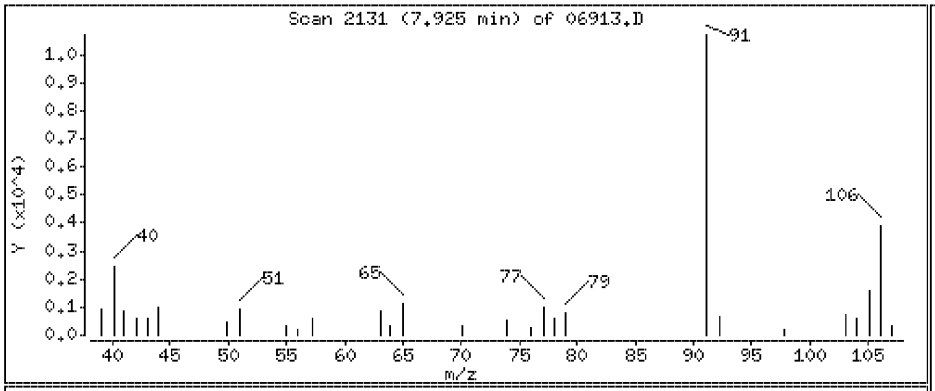
Operator: DR1

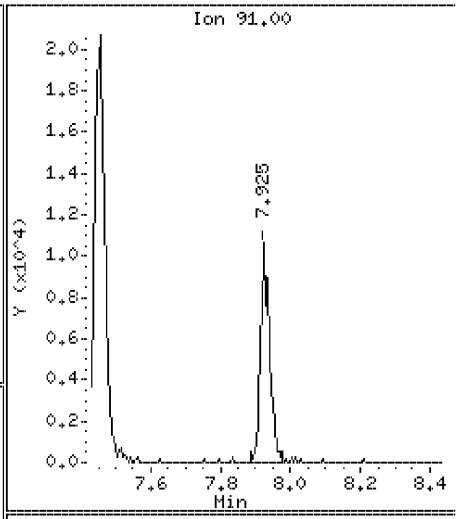
Column phase: J&W DB-5

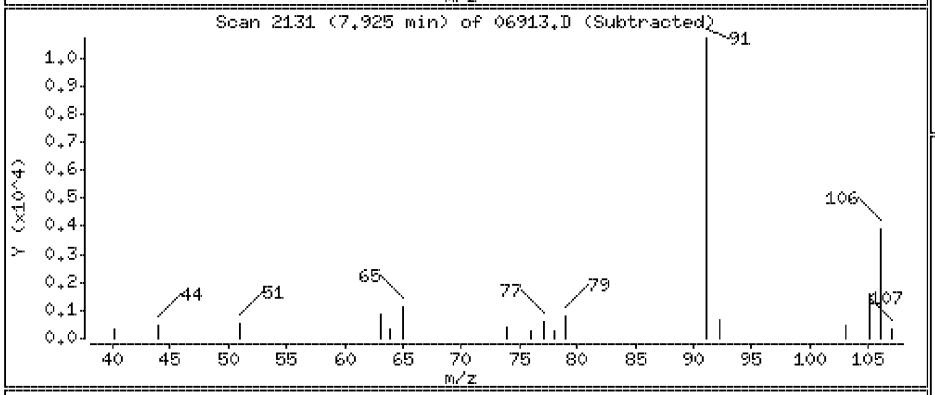
Column diameter: 0.32

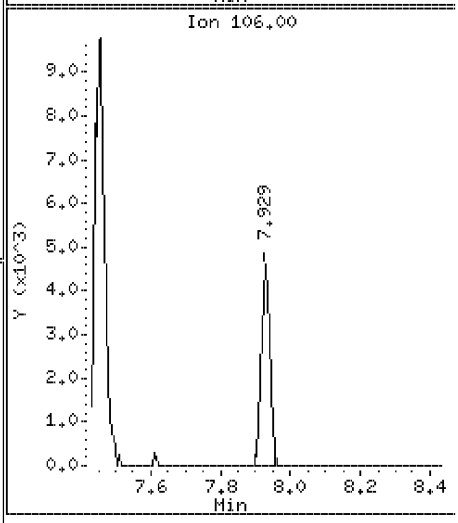
74 o-Xylene

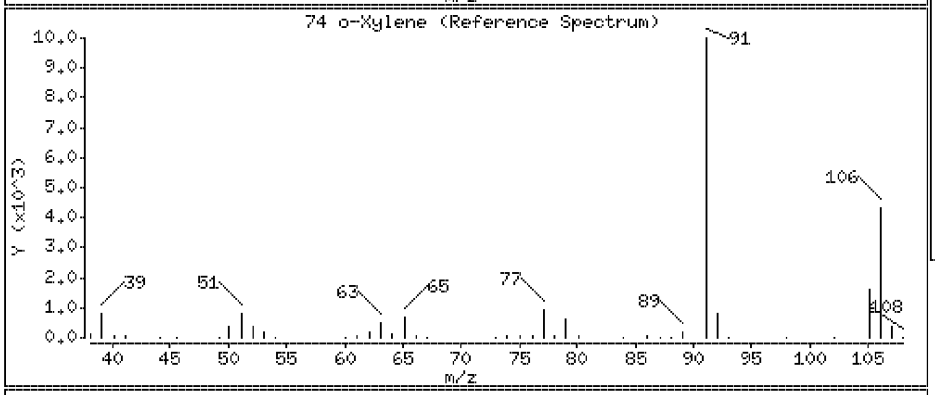
Concentration: 0.328 ppbv

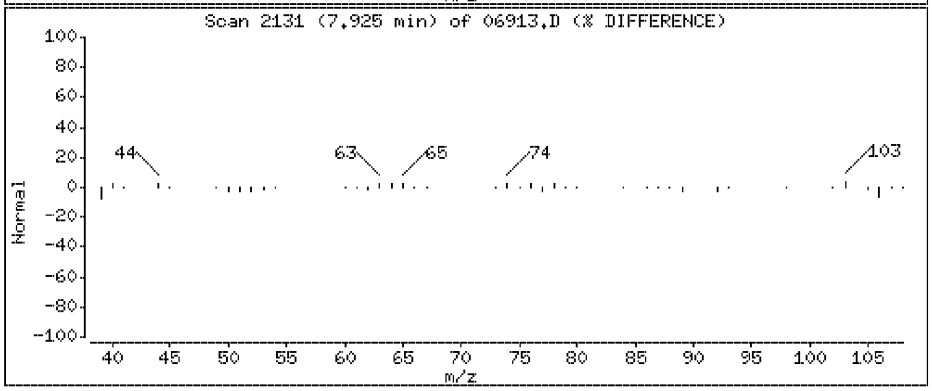












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

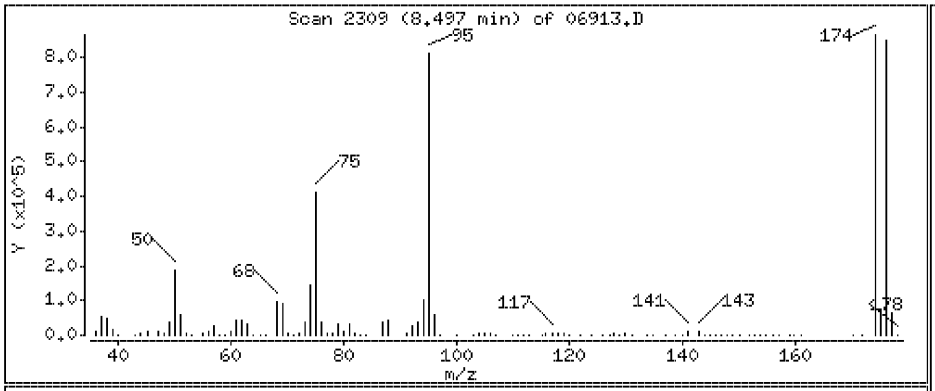
Operator: DR1

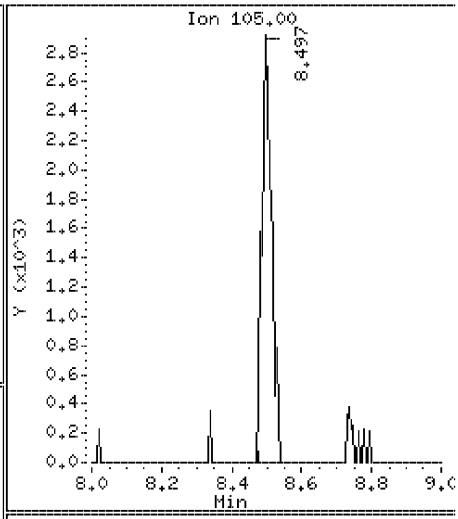
Column phase: J&W DB-5

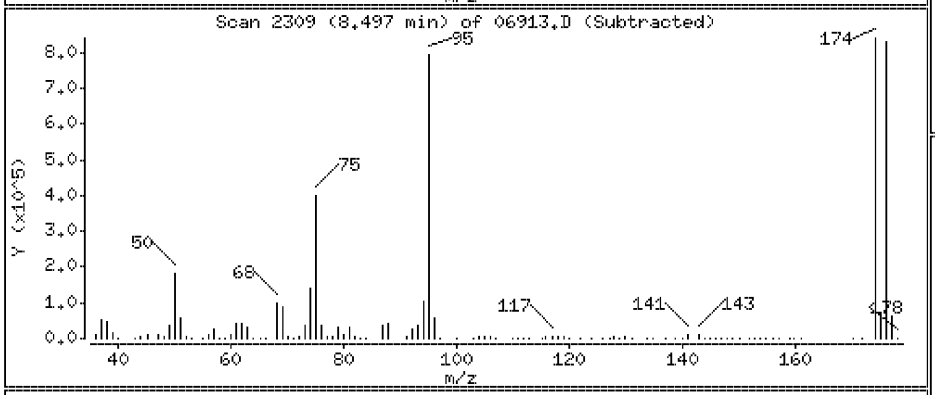
Column diameter: 0.32

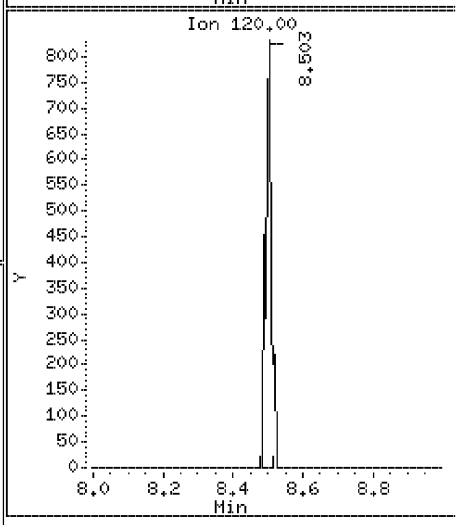
76 Isopropylbenzene

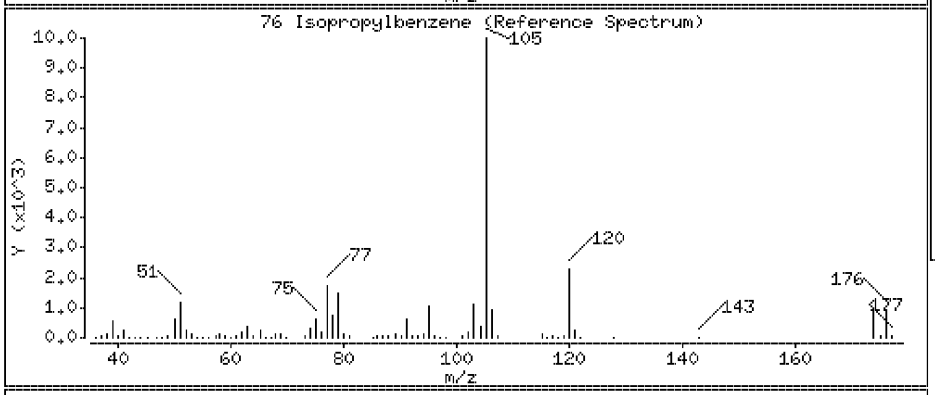
Concentration: 0.0756 ppbv

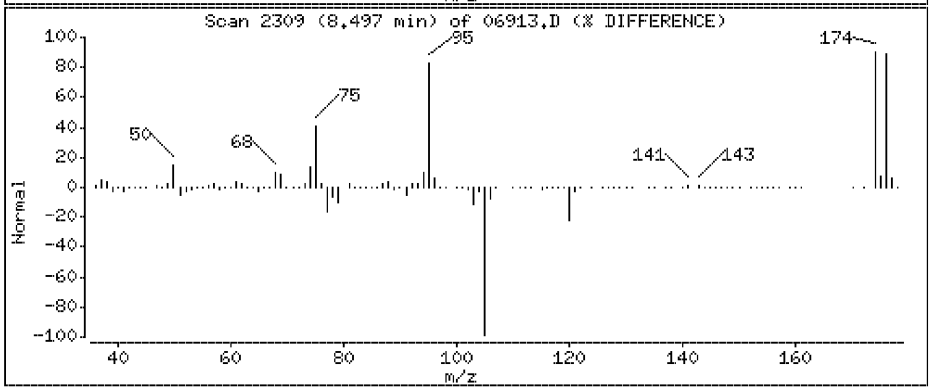












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

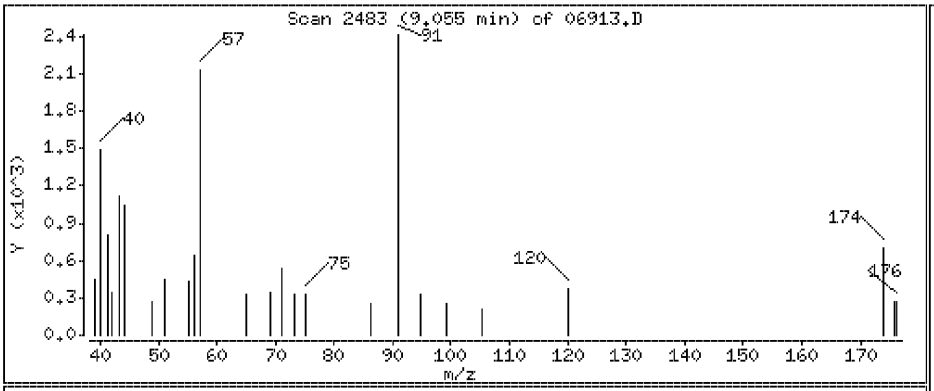
Operator: DR1

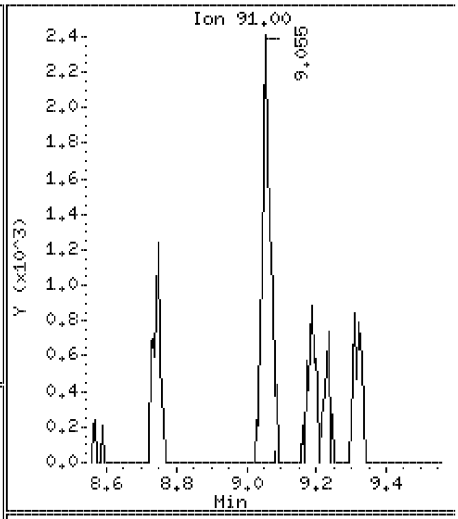
Column phase: J&W DB-5

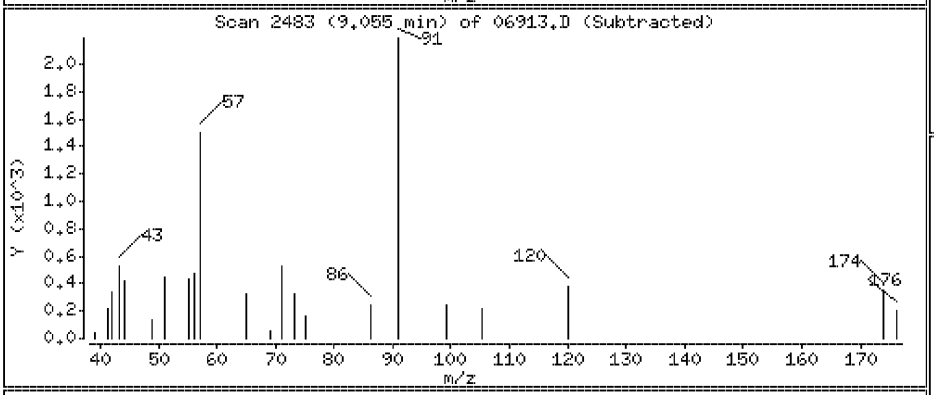
Column diameter: 0.32

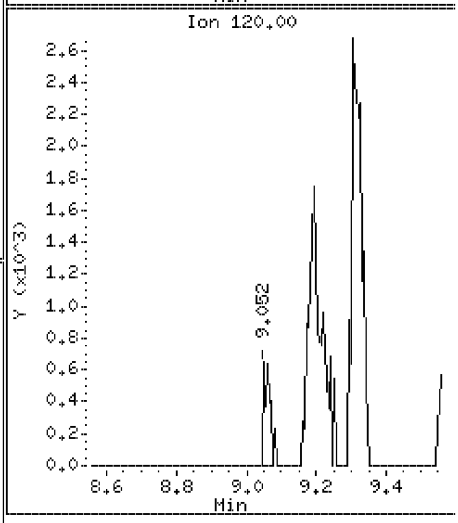
77 N-Propylbenzene

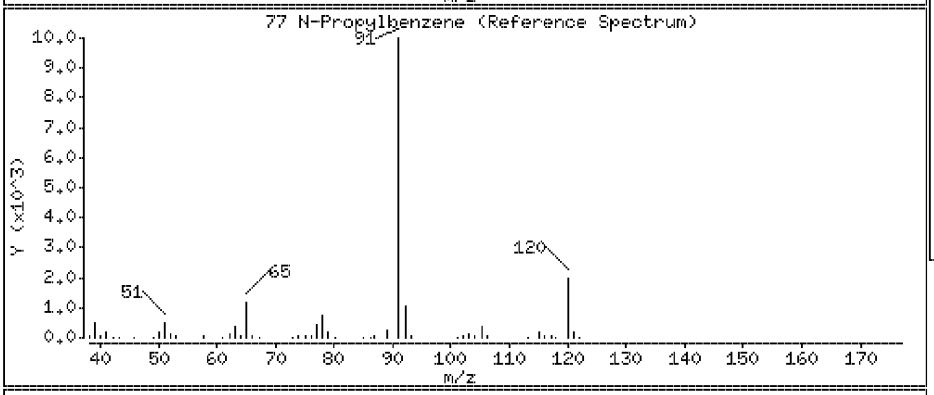
Concentration: 0.0486 ppbv

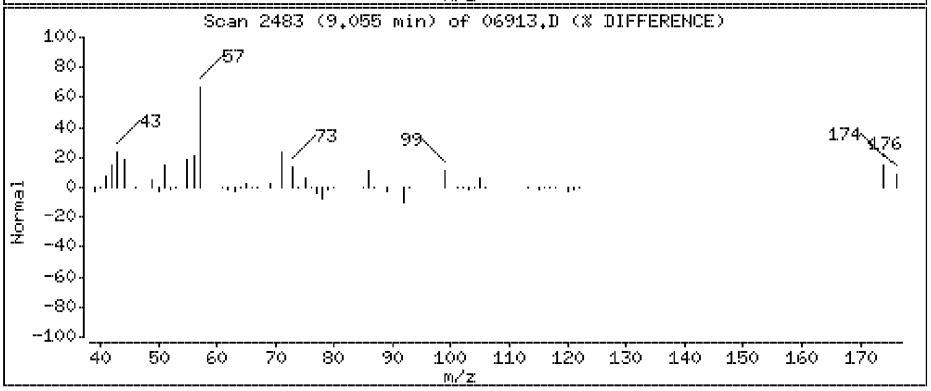












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

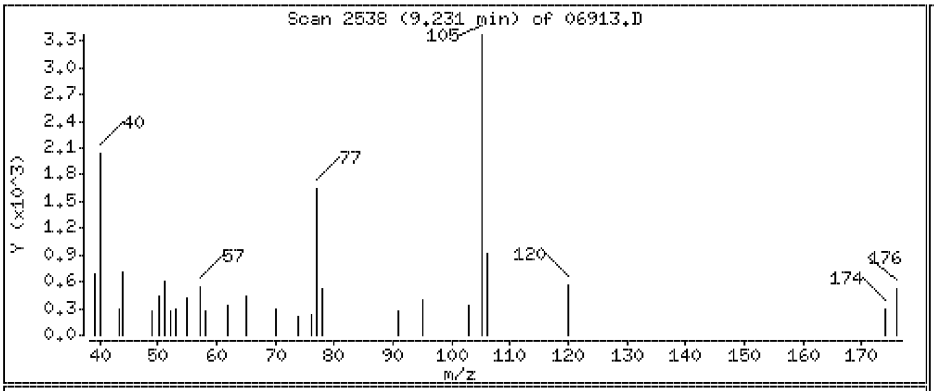
Operator: DR1

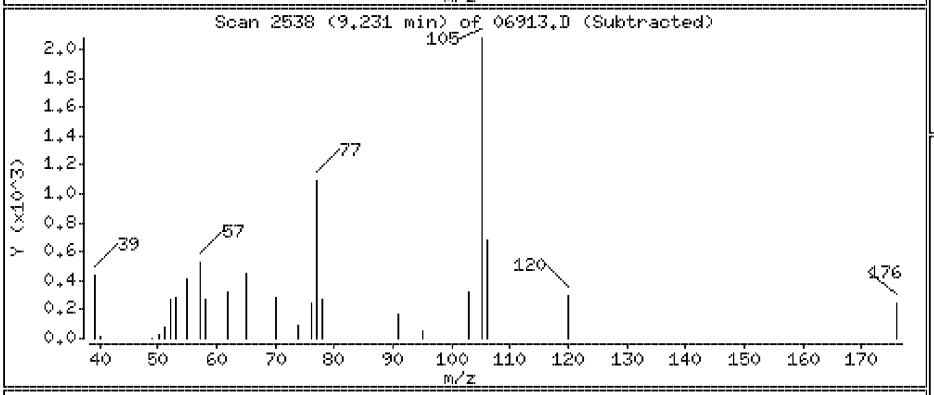
Column phase: J&W DB-5

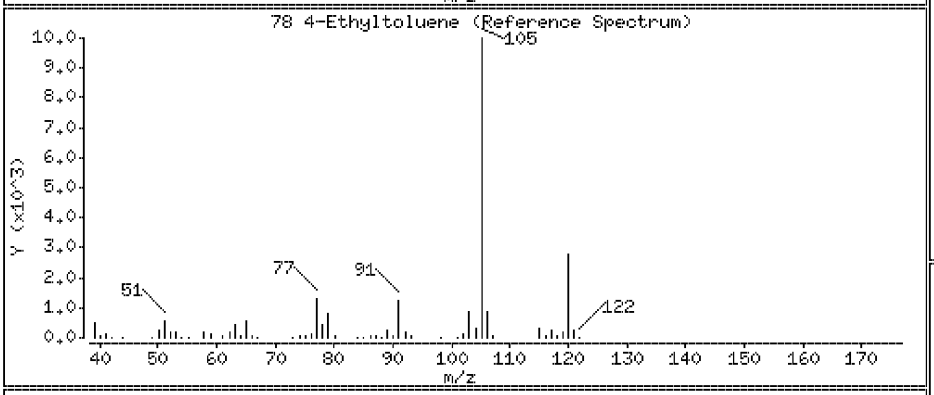
Column diameter: 0.32

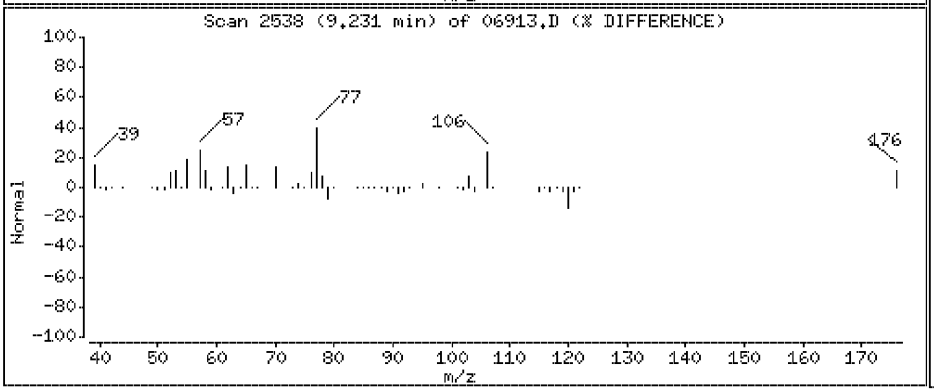
78 4-Ethyltoluene

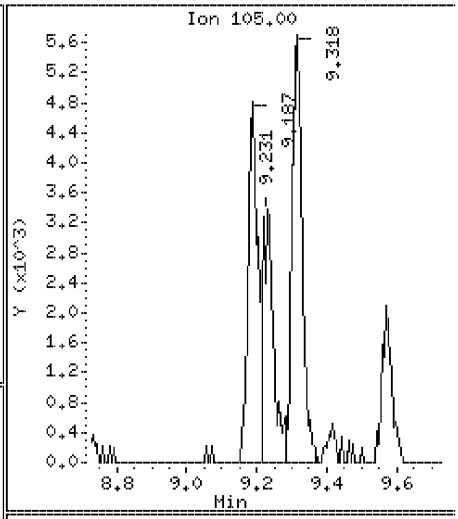
Concentration: 0.121 ppbv

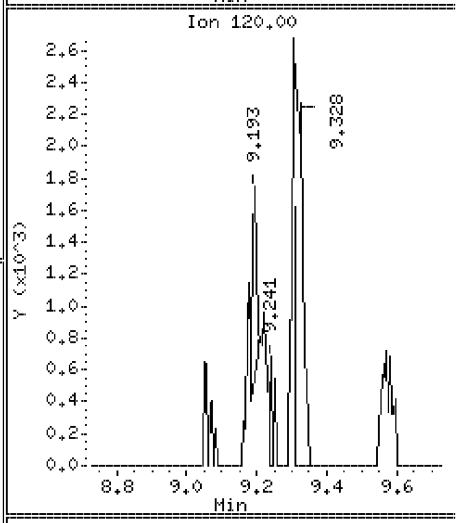


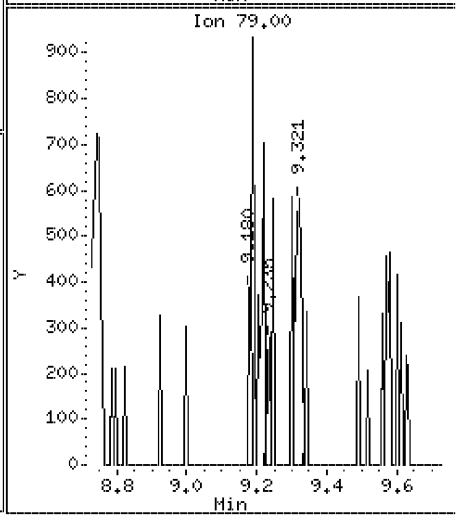












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

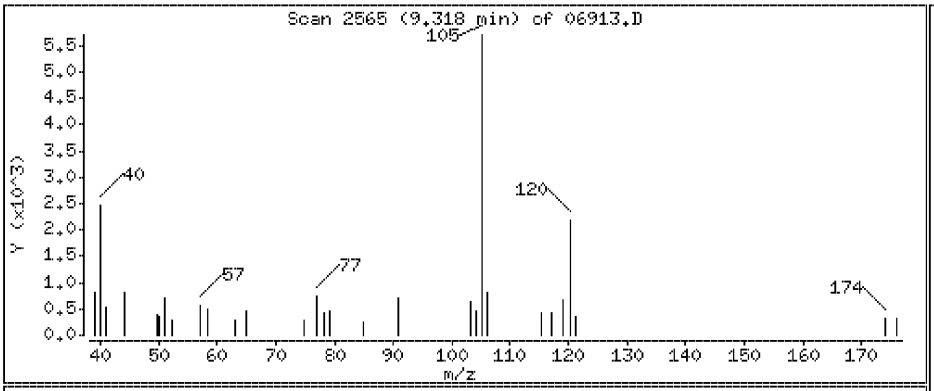
Operator: DR1

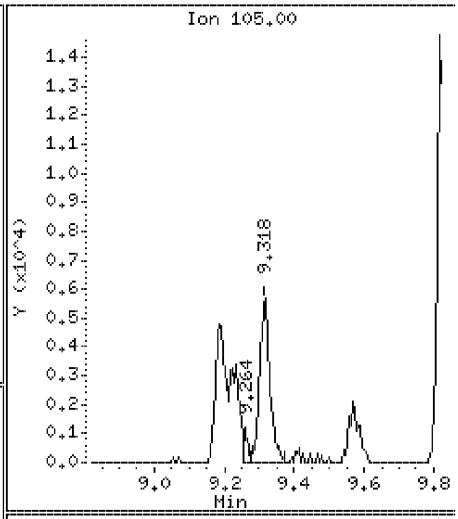
Column phase: J&W DB-5

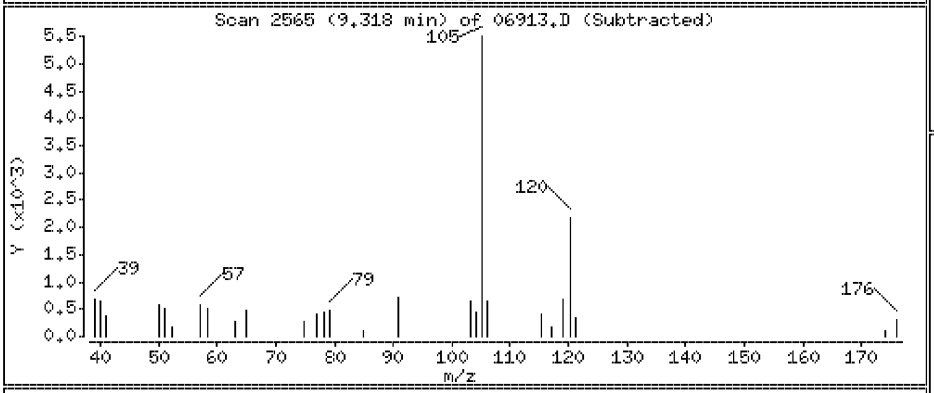
Column diameter: 0.32

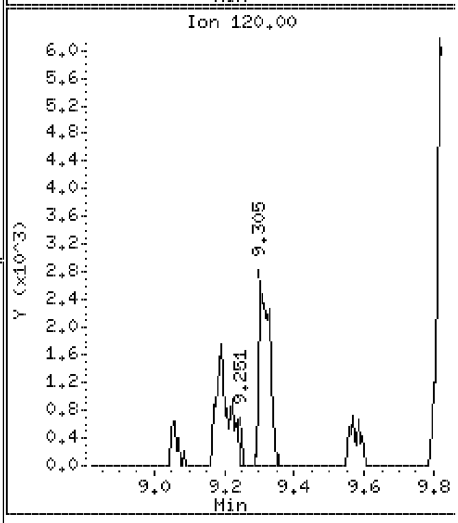
79 1,3,5-Trimethylbenzene

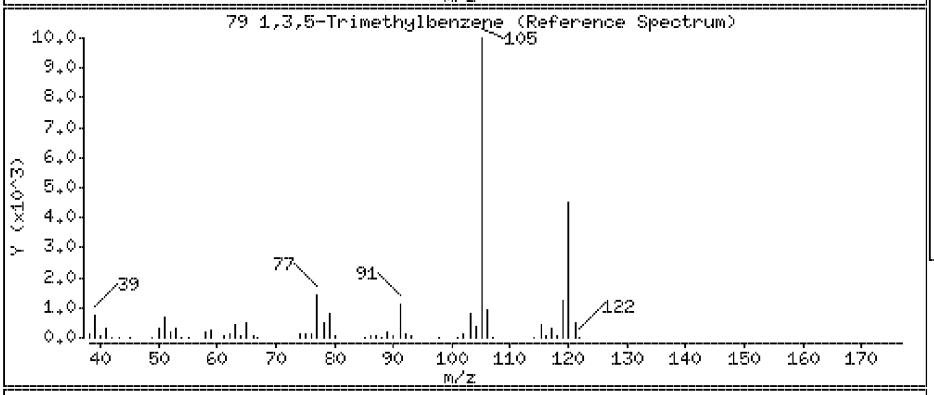
Concentration: 0.138 ppbv

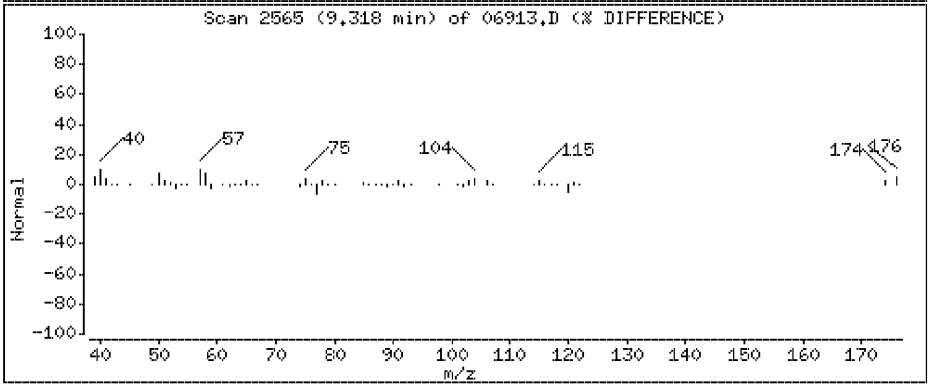












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

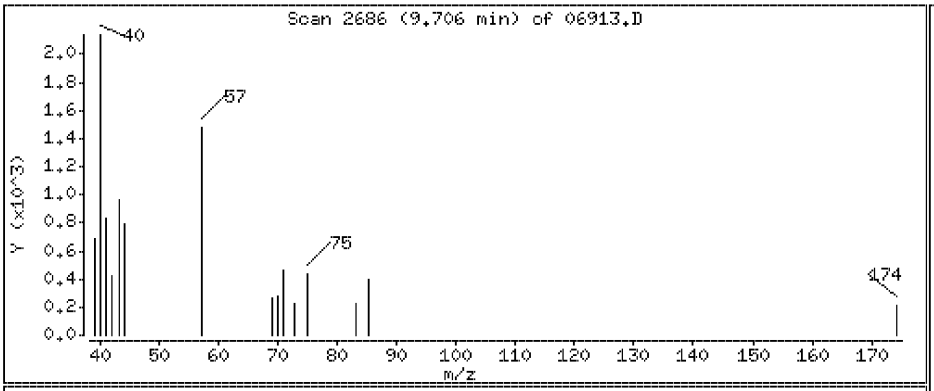
Operator: DR1

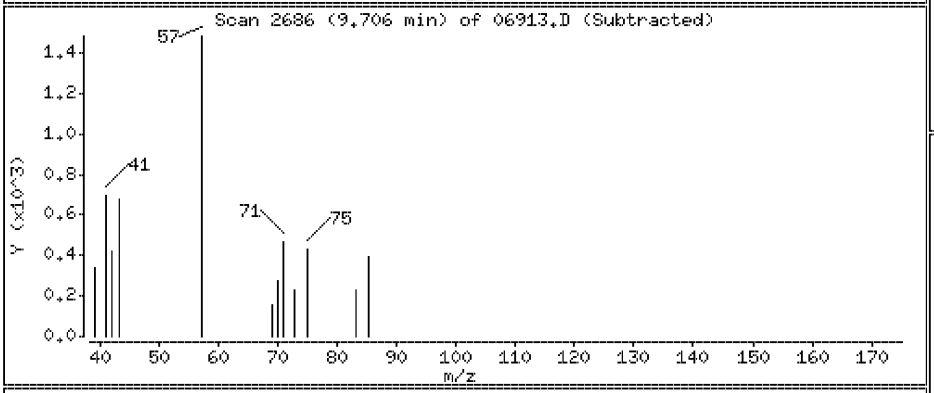
Column phase: J&W DB-5

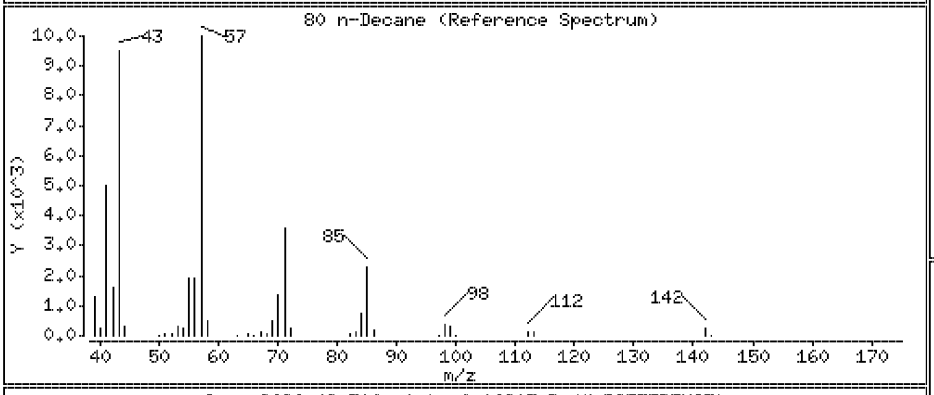
Column diameter: 0.32

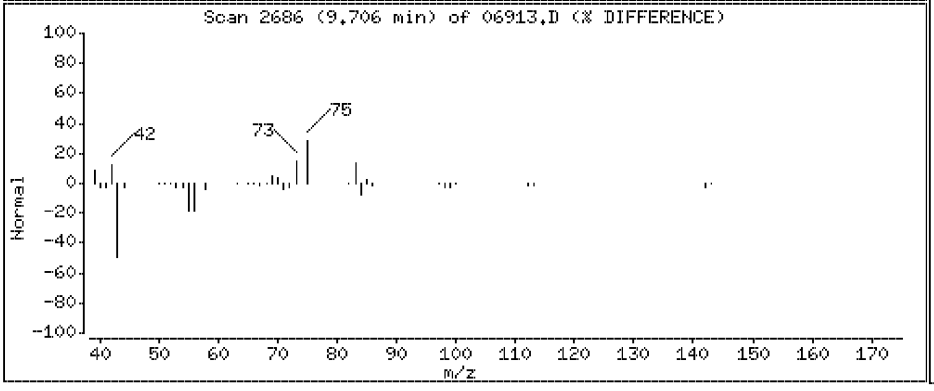
80 n-Decane

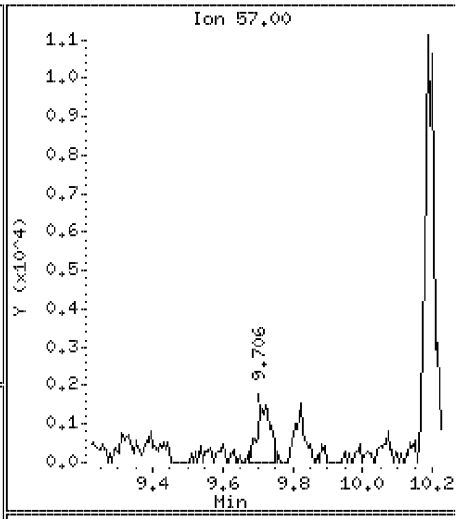
Concentration: 0.123 ppbv

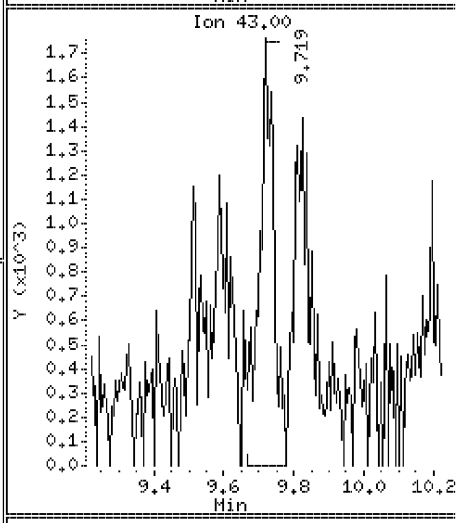


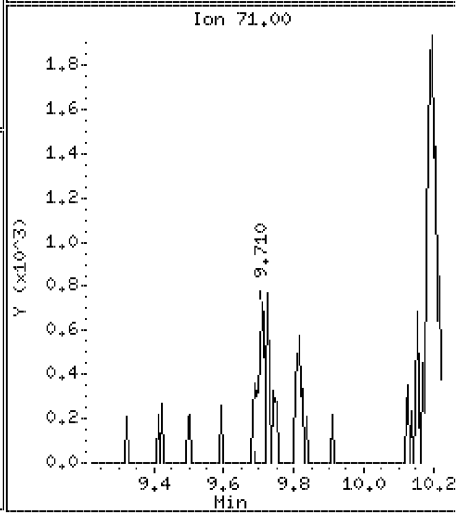












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

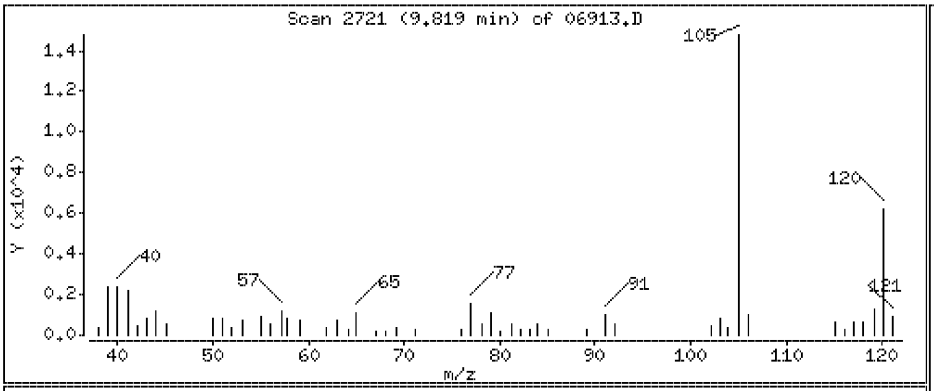
Operator: DR1

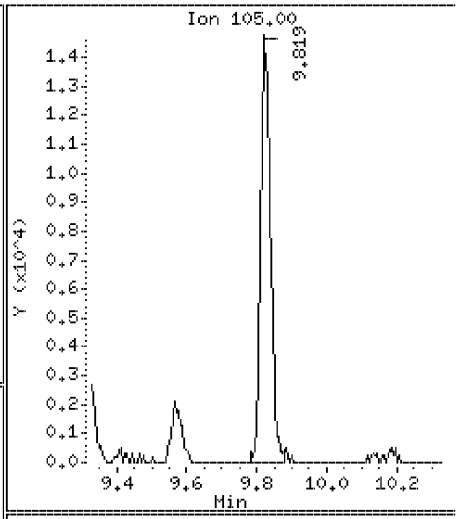
Column phase: J&W DB-5

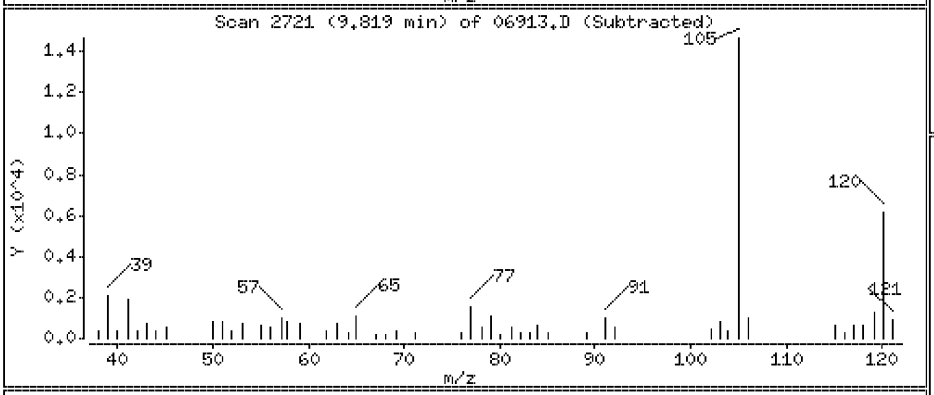
Column diameter: 0.32

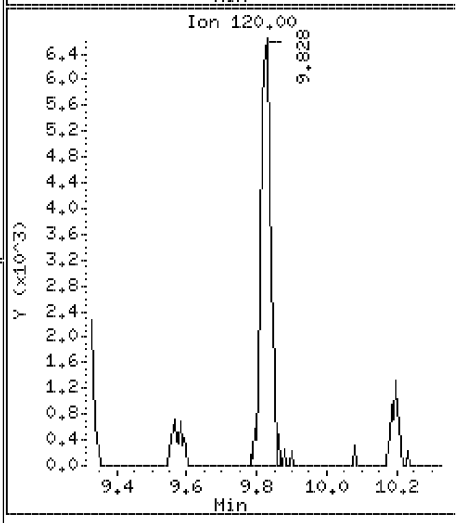
82 1,2,4-Trimethylbenzene

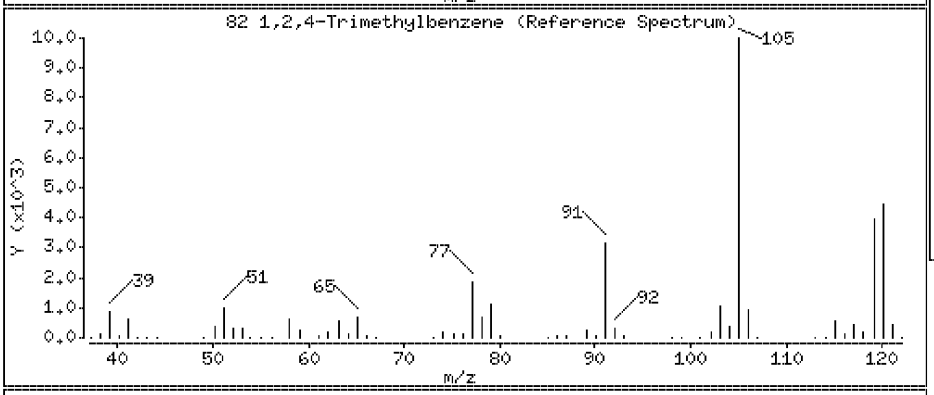
Concentration: 0.339 ppbv

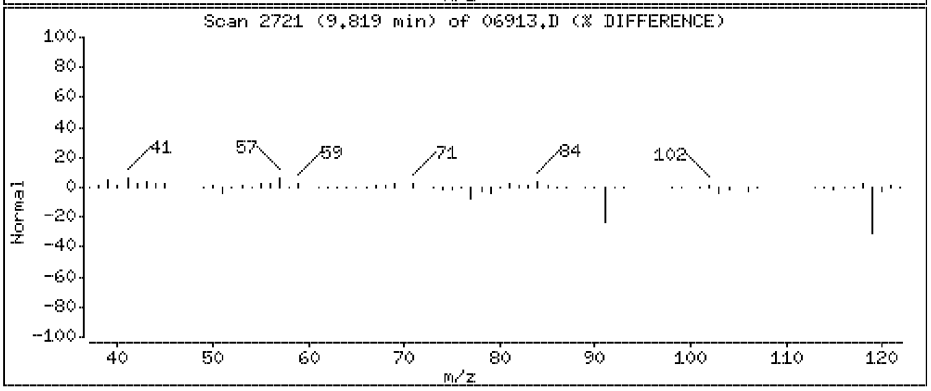












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

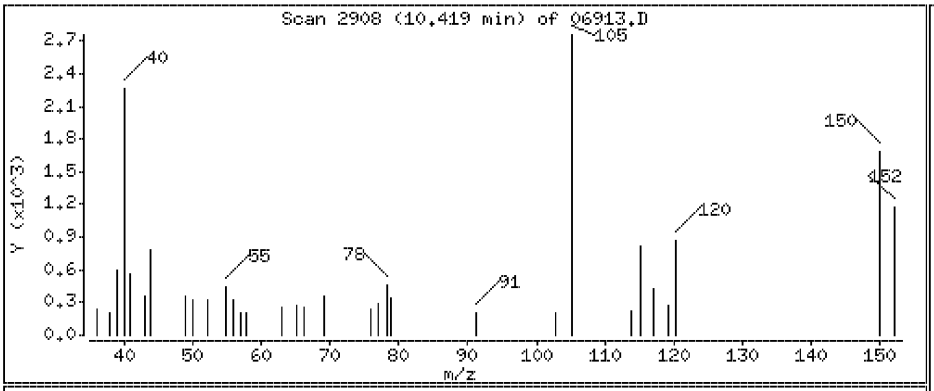
Operator: DR1

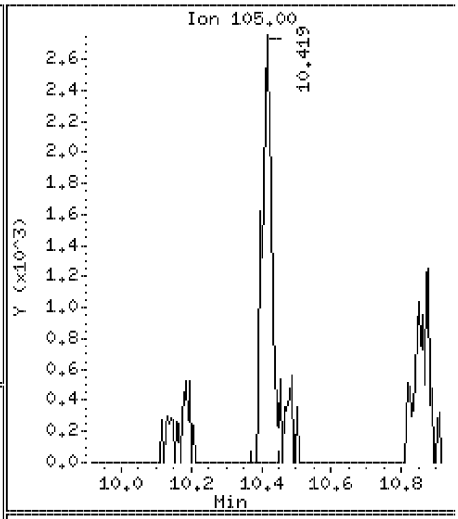
Column phase: J&W DB-5

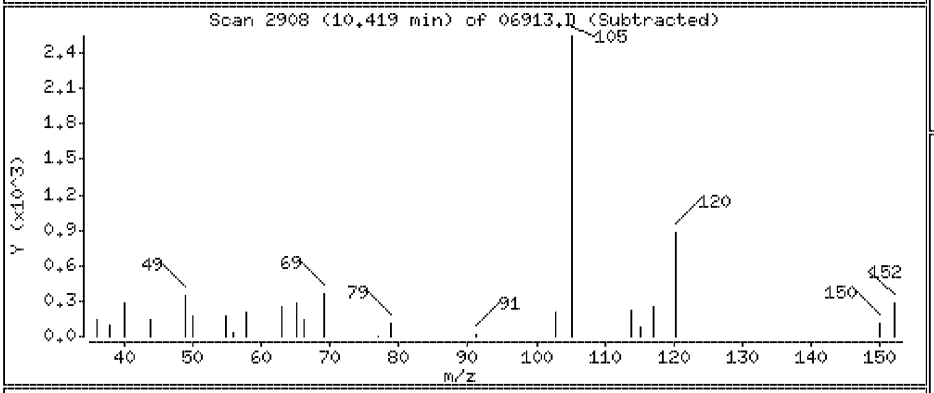
Column diameter: 0.32

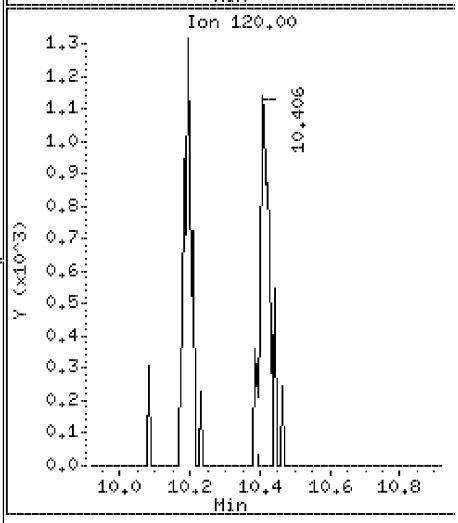
89 1,2,3-Trimethylbenzene

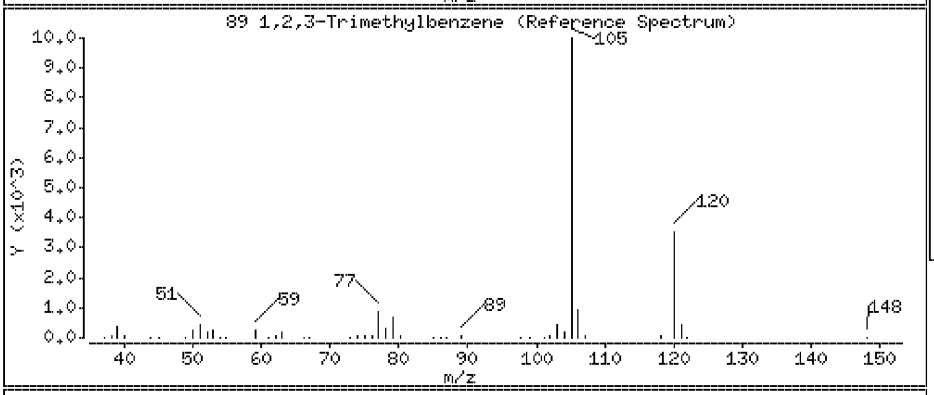
Concentration: 0.0998 ppbv

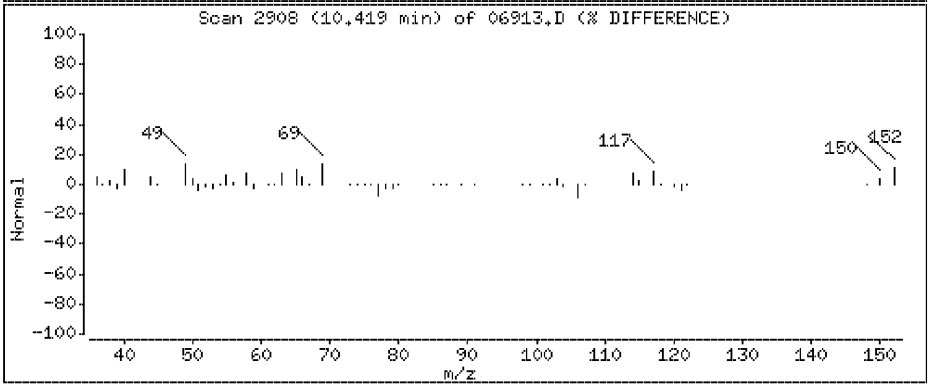












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

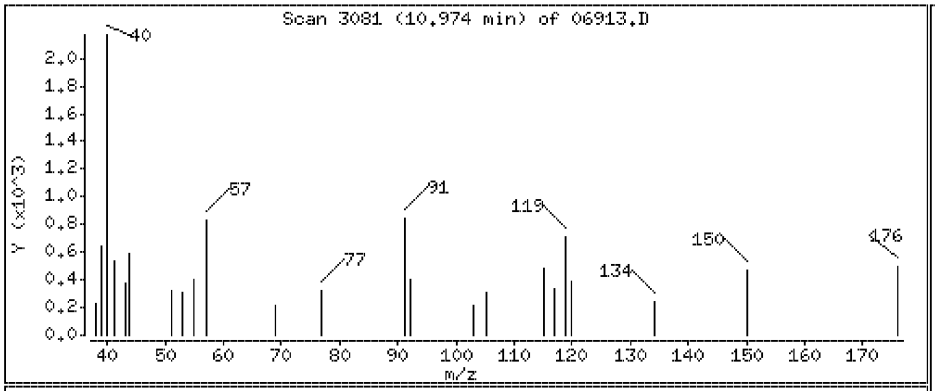
Operator: DR1

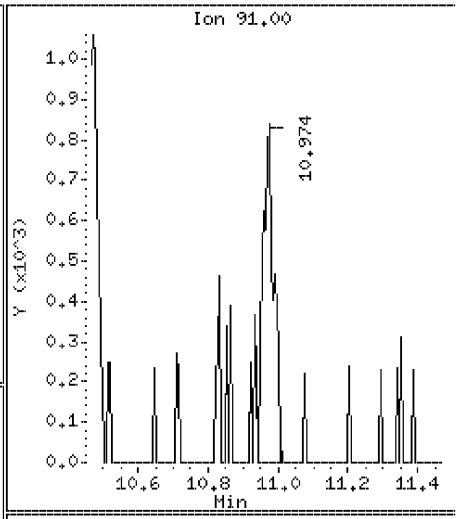
Column phase: J&W DB-5

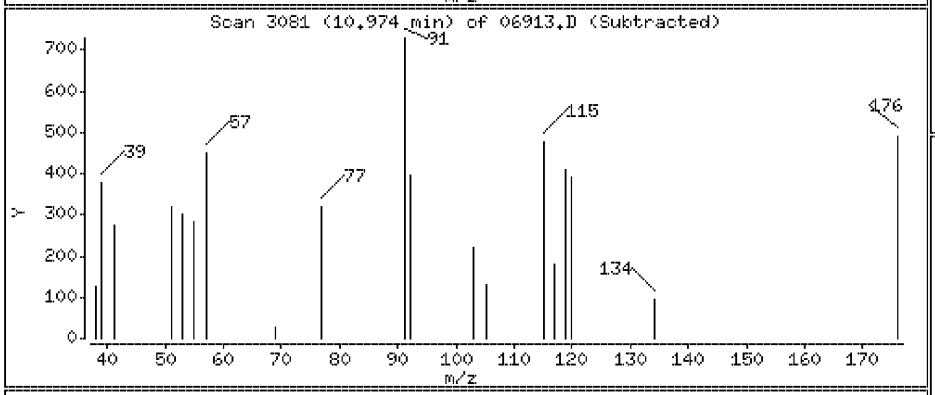
Column diameter: 0.32

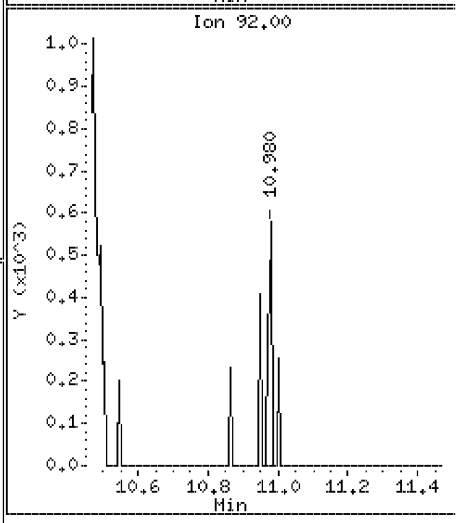
91 N-Butylbenzene

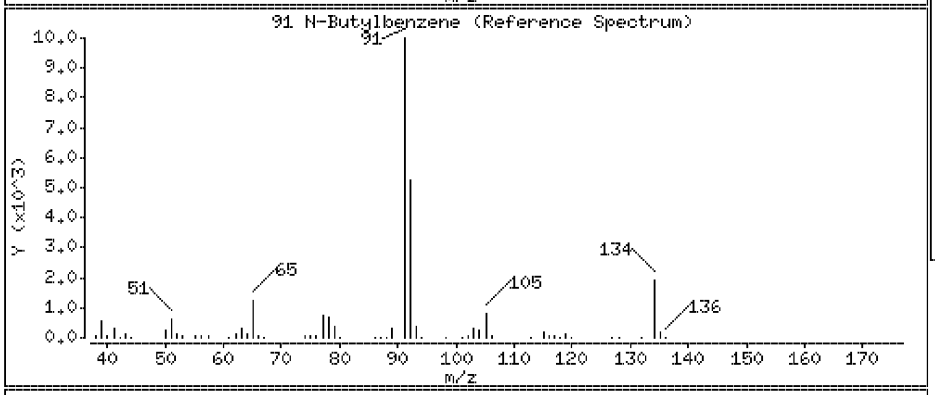
Concentration: 0.0335 ppbv

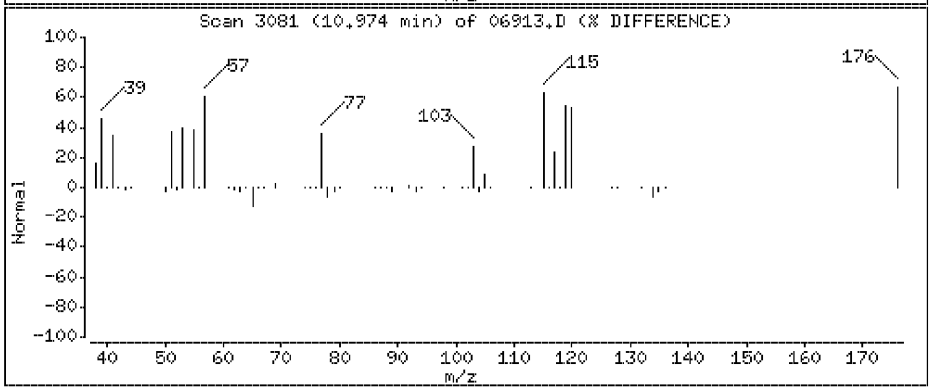












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06913.D

Date : 10-MAR-2017 20:42

Client ID:

Instrument: 10airD.i

Sample Info:

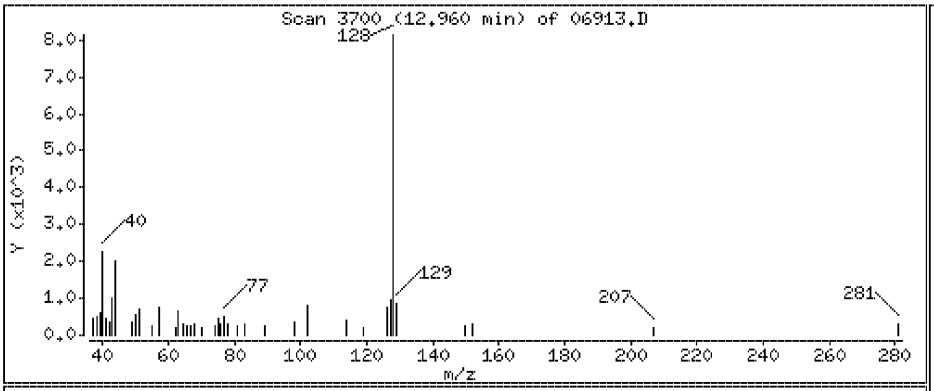
Operator: DR1

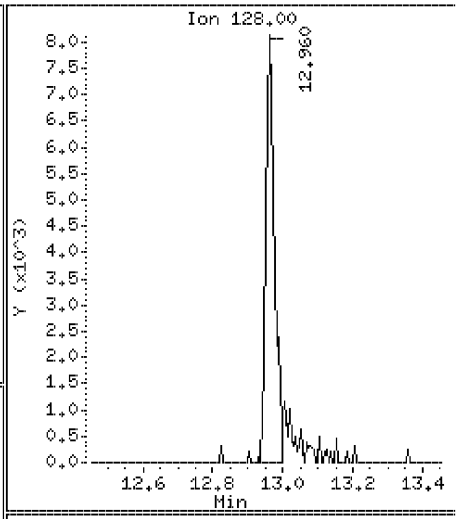
Column phase: J&W DB-5

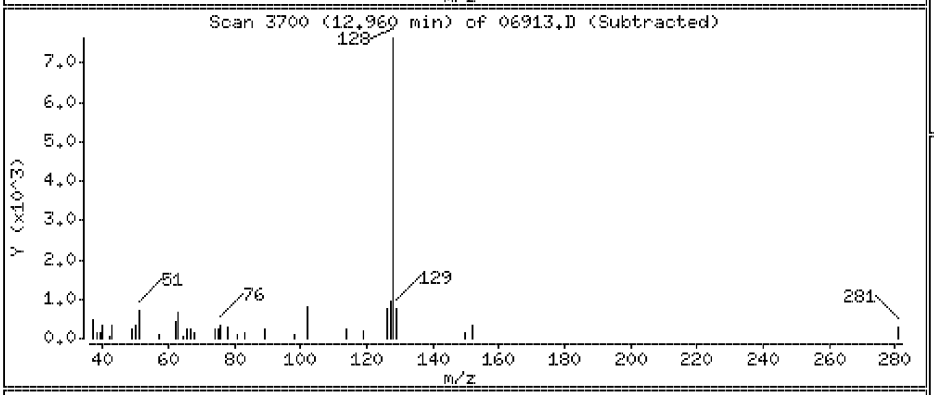
Column diameter: 0.32

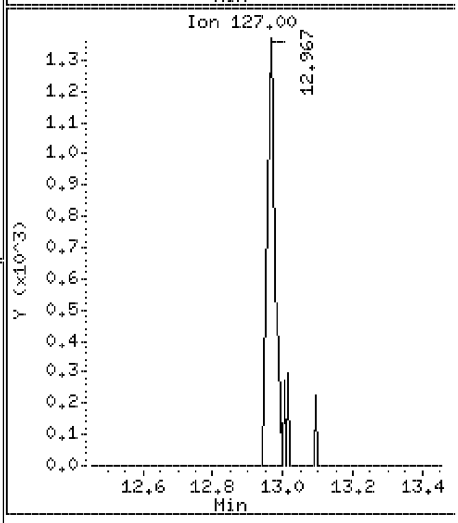
94 Naphthalene

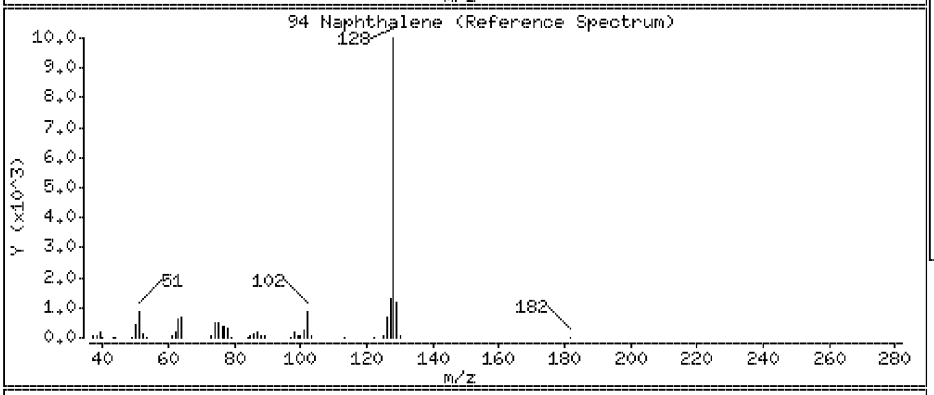
Concentration: 0.857 ppbv

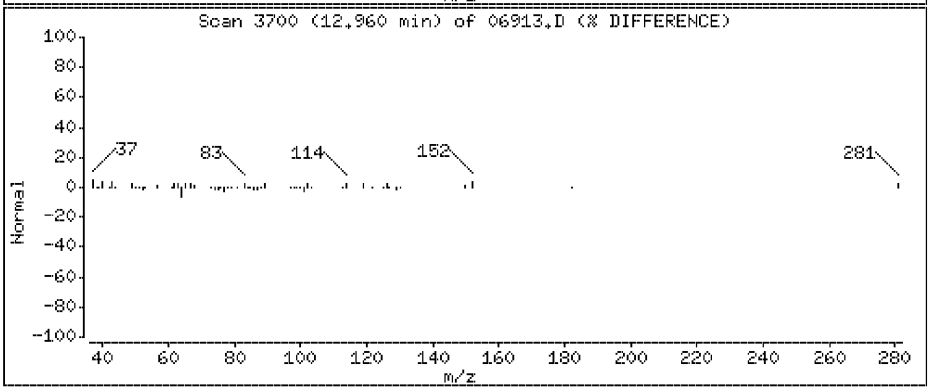






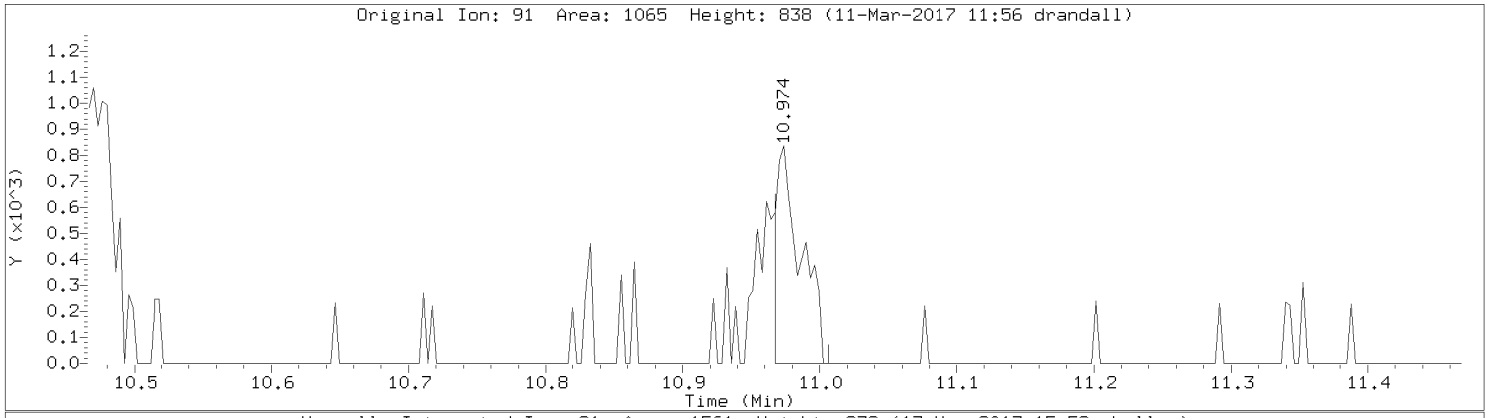


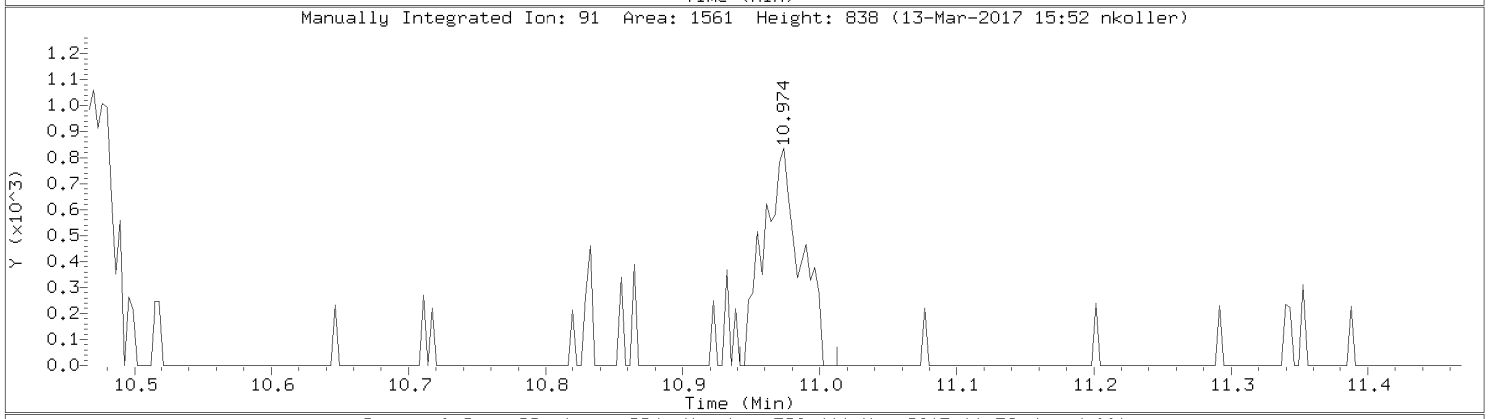


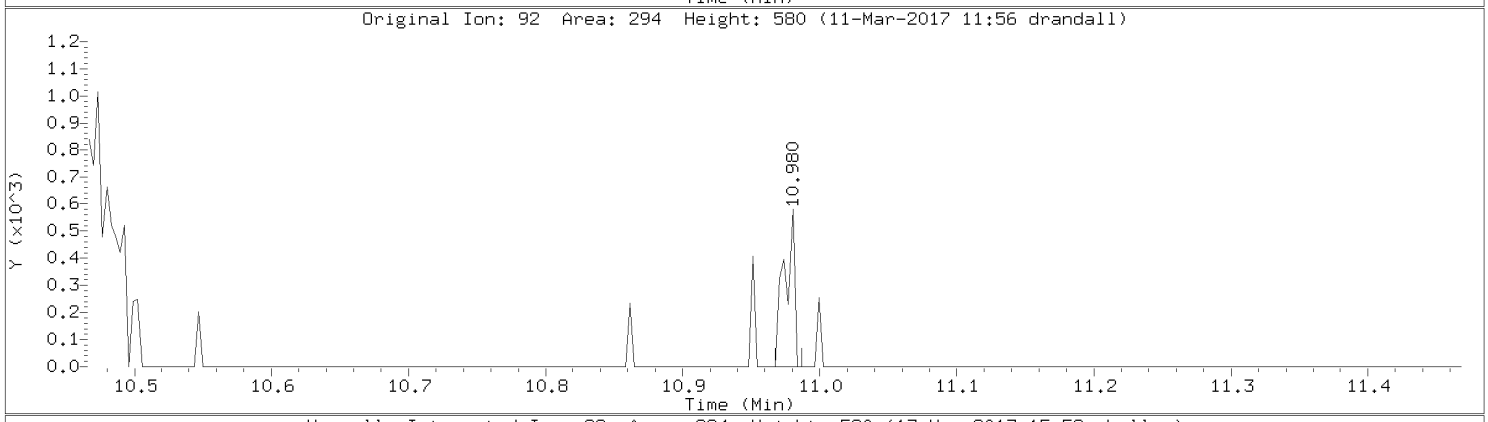


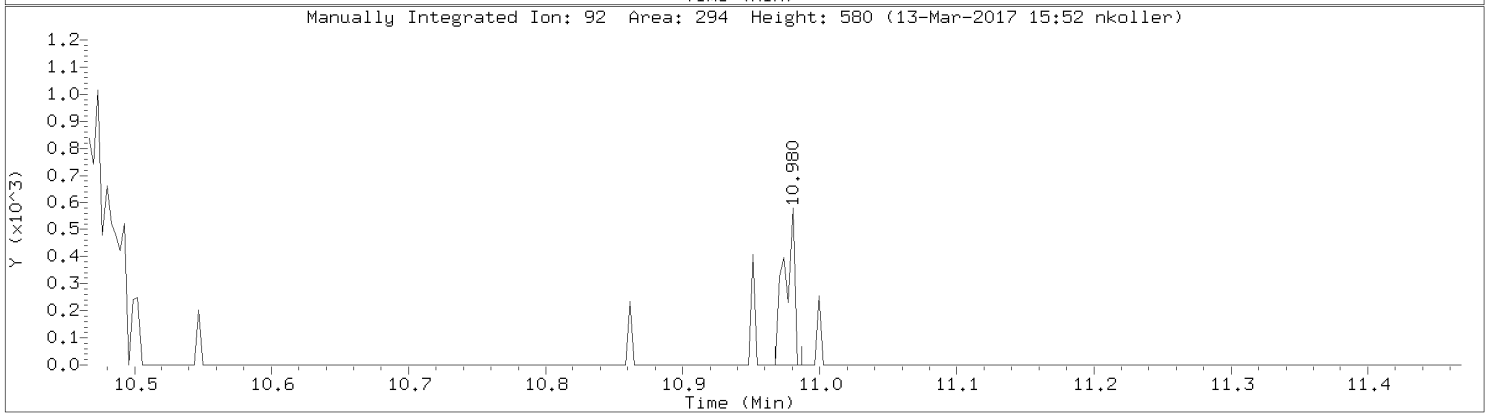
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06913.d
Injection Date: 10-MAR-2017 20:42
Instrument: 10airD.i
Lab Sample ID: 10380372007

Compound: N-Butylbenzene
CAS Number: 104-51-8



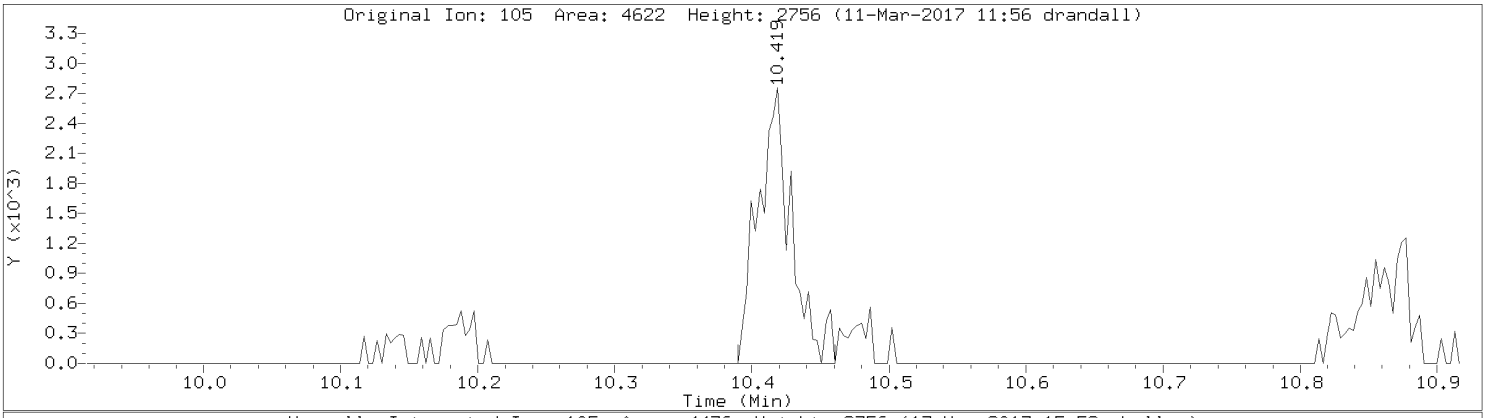


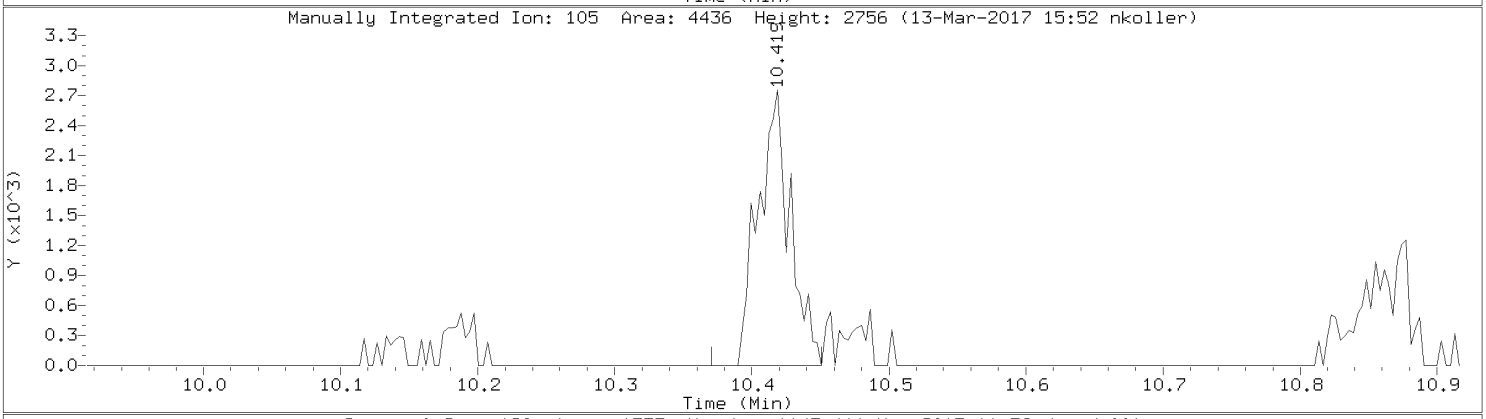


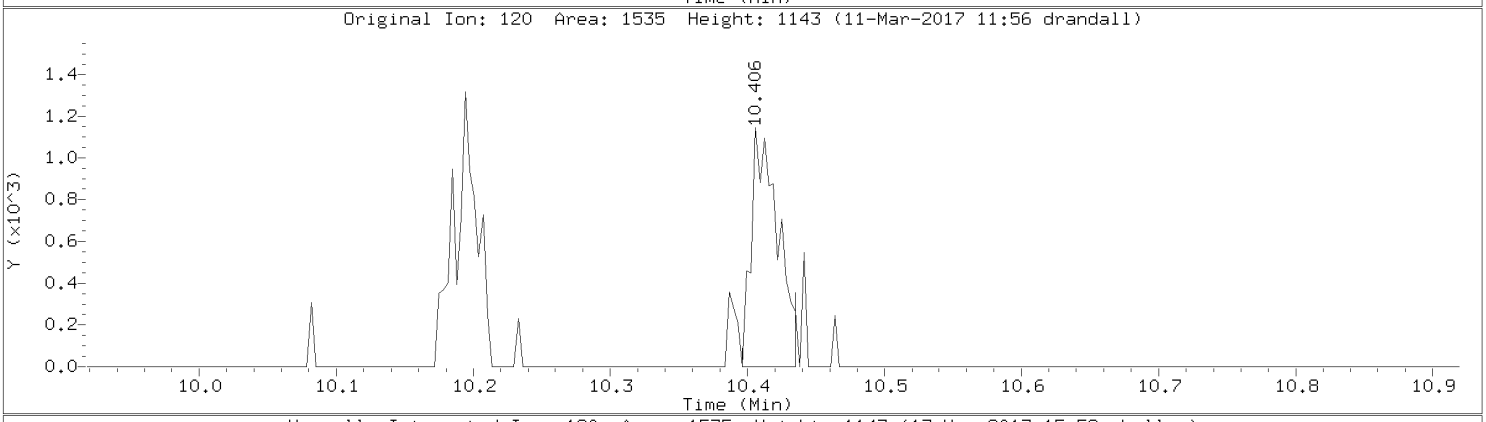


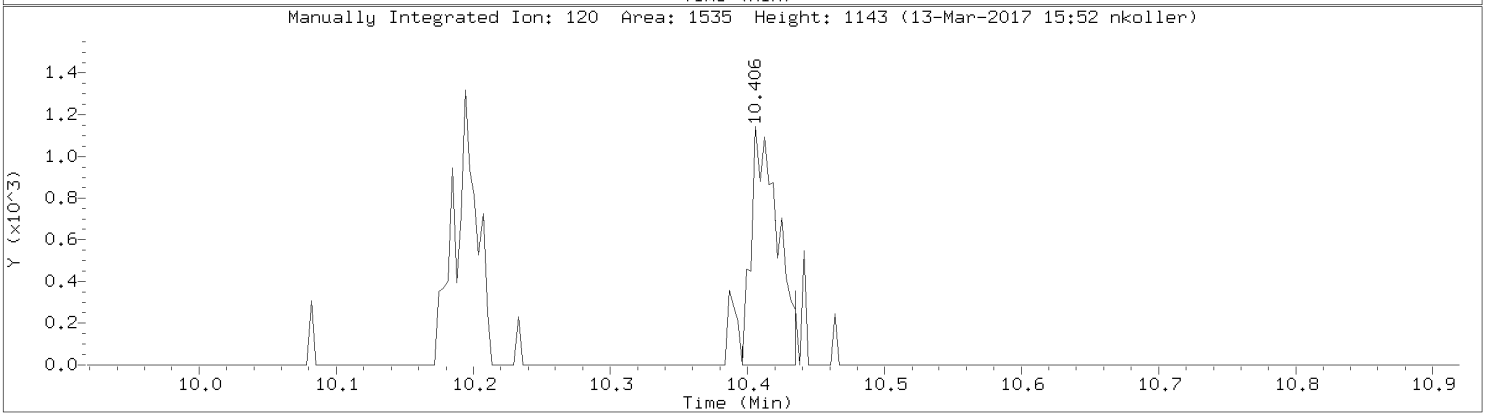
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06913.d
Injection Date: 10-MAR-2017 20:42
Instrument: 10airD.i
Lab Sample ID: 10380372007

Compound: 1,2,3-Trimethylbenzene
CAS Number: 526-73-8



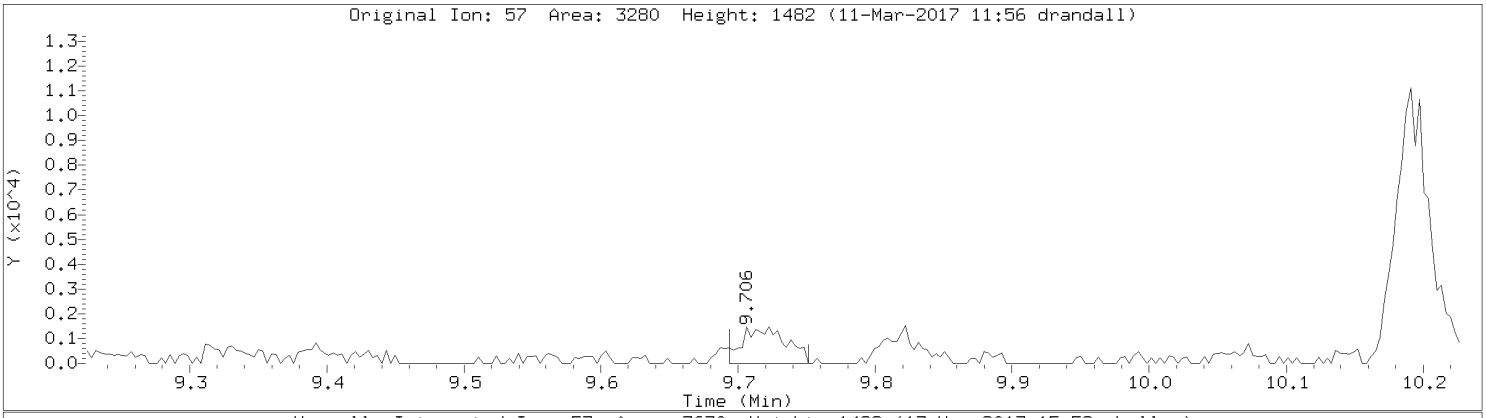


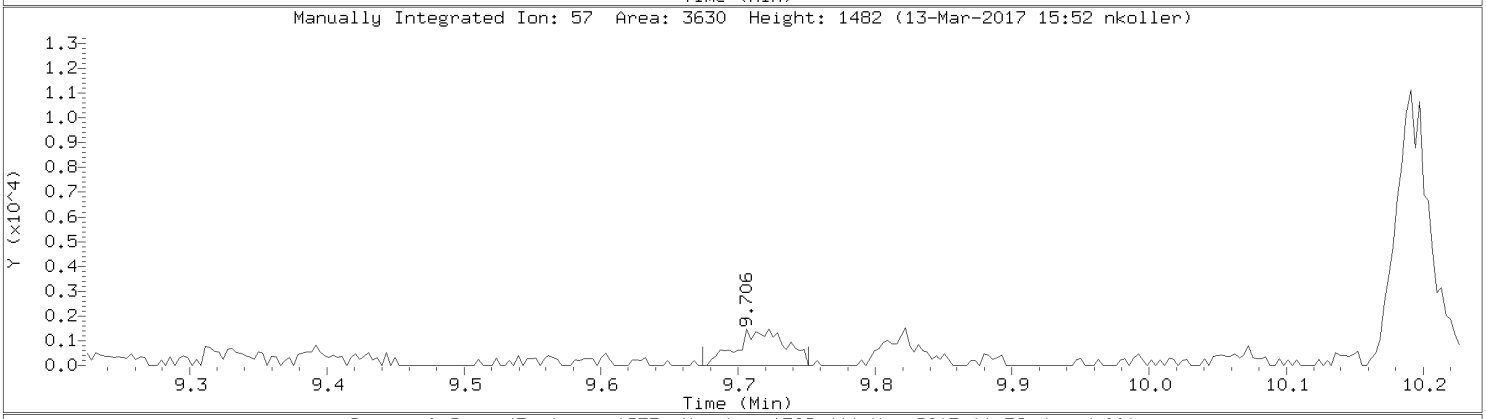


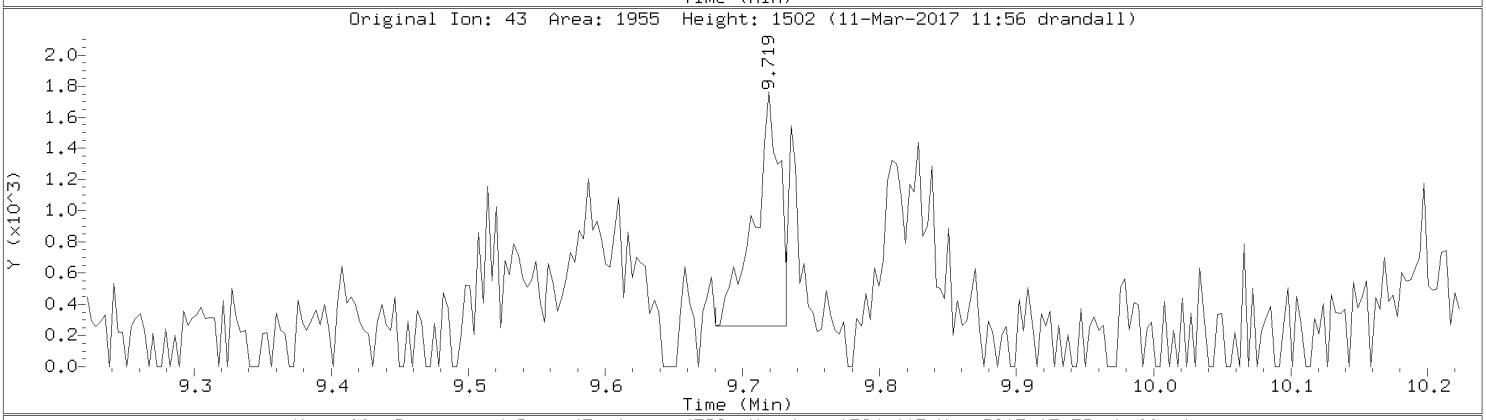


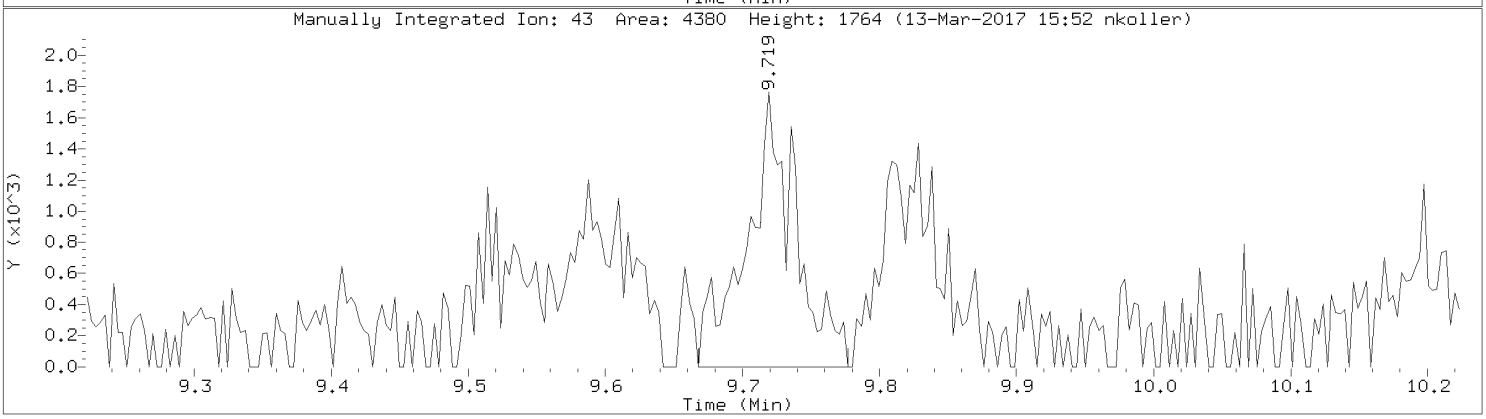
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06913.d
Injection Date: 10-MAR-2017 20:42
Instrument: 10airD.i
Lab Sample ID: 10380372007

Compound: n-Decane
CAS Number: 124-18-5

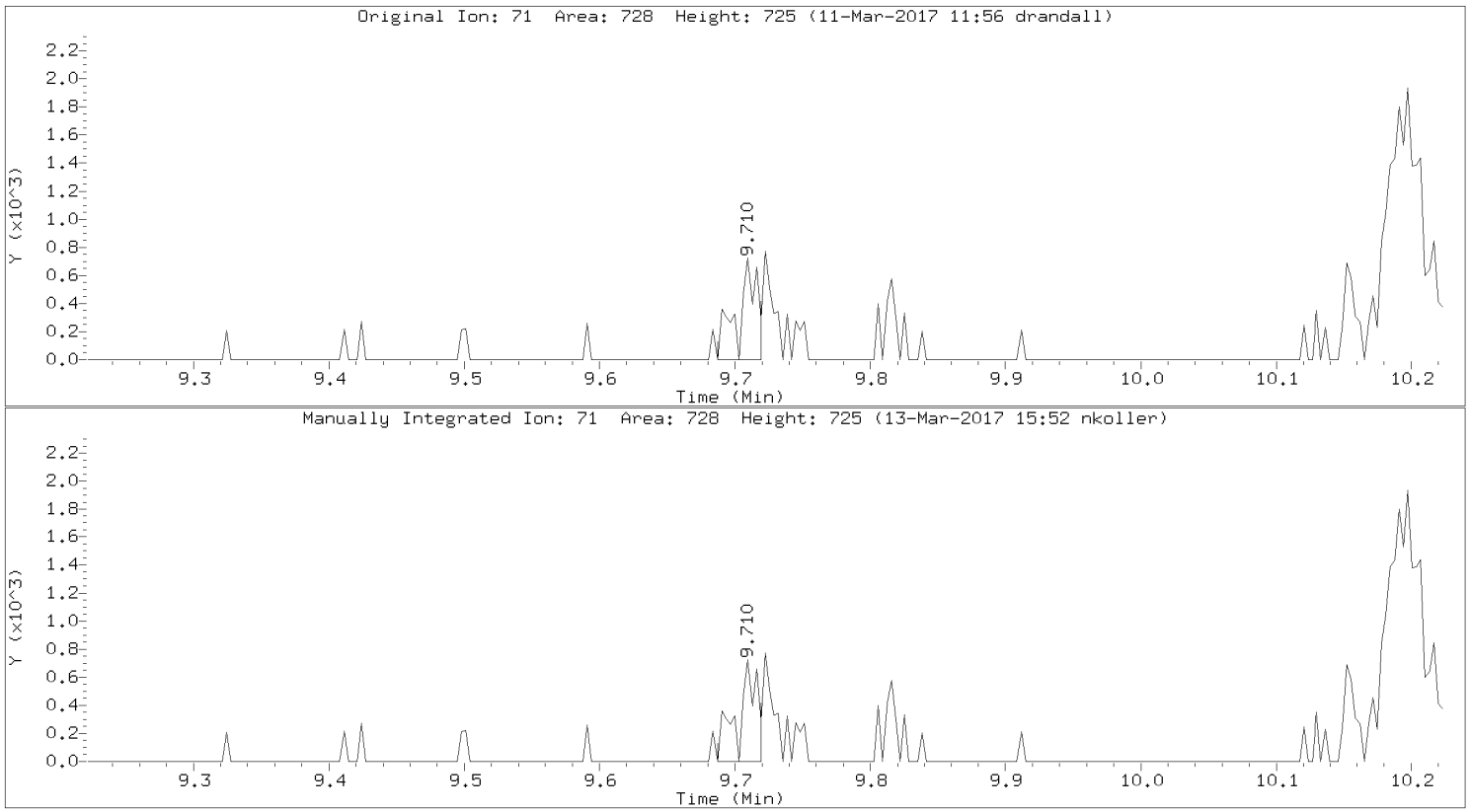








Data File: \\192.168.10.12\chem\10airD.i\031017.b/06913.d
Injection Date: 10-MAR-2017 20:42
Instrument: 10airD.i
Lab Sample ID: 10380372007



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.d
Report Date: 12-Mar-2017 10:18

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07007.d
Lab Smp Id: 10380372007
Inj Date : 11-MAR-2017 14:44
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 7
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.120	2.126	(0.500)	2024	0.12222	0.224	(Q)
3	Chlorodifluoromethane	67	2.133	2.155	(0.503)	2490	0.30327	0.555	(Q)
4	Propylene	41	2.139	2.146	(0.504)	5995	0.10128	0.185	(Q)
5	Dichlorodifluoromethane	85	2.155	2.165	(0.508)	16381	0.21908	0.401	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						
7	Chloromethane	50	2.229	2.235	(0.526)	7358	0.20983	0.384	
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.515	2.521	(0.593)	7865	1.50633	2.76	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.604	2.614	(0.614)	9932	0.12698	0.232	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.637	2.653	(0.622)	1096761	28.1020	51.4	
19	Isopropyl Alcohol	45	2.685	2.688	(0.633)	33486	1.26397	2.31	(Q)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.d
Report Date: 12-Mar-2017 10:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						(D)
	25 Methylene chloride	49	2.868	2.871	(0.676)	1223693	39.0128	71.4	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.275	(0.771)	1713608	9.49114	9.49	
	33 Methyl Ethyl Ketone	72	3.346	3.359	(0.789)	1914	0.17701	0.324(Q)	
	34 n-Hexane	57	3.349	3.352	(0.790)	119533	3.05750	5.60(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.100	4.100	(0.967)	7076	0.09455	0.173	
	45 Carbon tetrachloride	117	Compound Not Detected.						(D)
	44 Cyclohexane	56	4.119	4.126	(0.971)	2294	0.05937	0.109(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	3400896	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	4.562	4.568	(1.076)	7604	0.18510	0.339	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.563	(1.311)	3329256	9.76962	9.77	
	60 Toluene	91	5.630	5.631	(1.328)	32352	0.32179	0.589	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.401	6.404	(0.911)	2517	0.04240	0.0776(aM)	
*	67 Chlorobenzene - d5	117	7.026	7.030	(1.000)	2685352	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	6698	0.05685	0.104	
	70 m&p-Xylene	91	7.456	7.460	(1.061)	20402	0.09370	0.171	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.854	7.858	(1.118)	21211	0.34497	0.631	
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	7.928	7.928	(1.128)	9331	0.09606	0.176	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	8.502	8.496	(1.210)	3503	0.02913	0.0533(a)	
	77 N-Propylbenzene	91	9.054	9.051	(1.289)	1769	0.01399	0.0256(a)	
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.d
Report Date: 12-Mar-2017 10:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	9.314	9.318	(1.326)	14013	0.10849	0.199(H)	
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.821	9.825	(1.398)	35242	0.27092	0.496	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1464470	8.90103	8.90	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.956	12.960	(1.844)	24221	0.86074	1.58	
95	Hexachlorobutadiene	225	Compound Not Detected.						(D)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.d
Report Date: 12-Mar-2017 10:18

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07007.d
Lab Smp Id: 10380372007
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

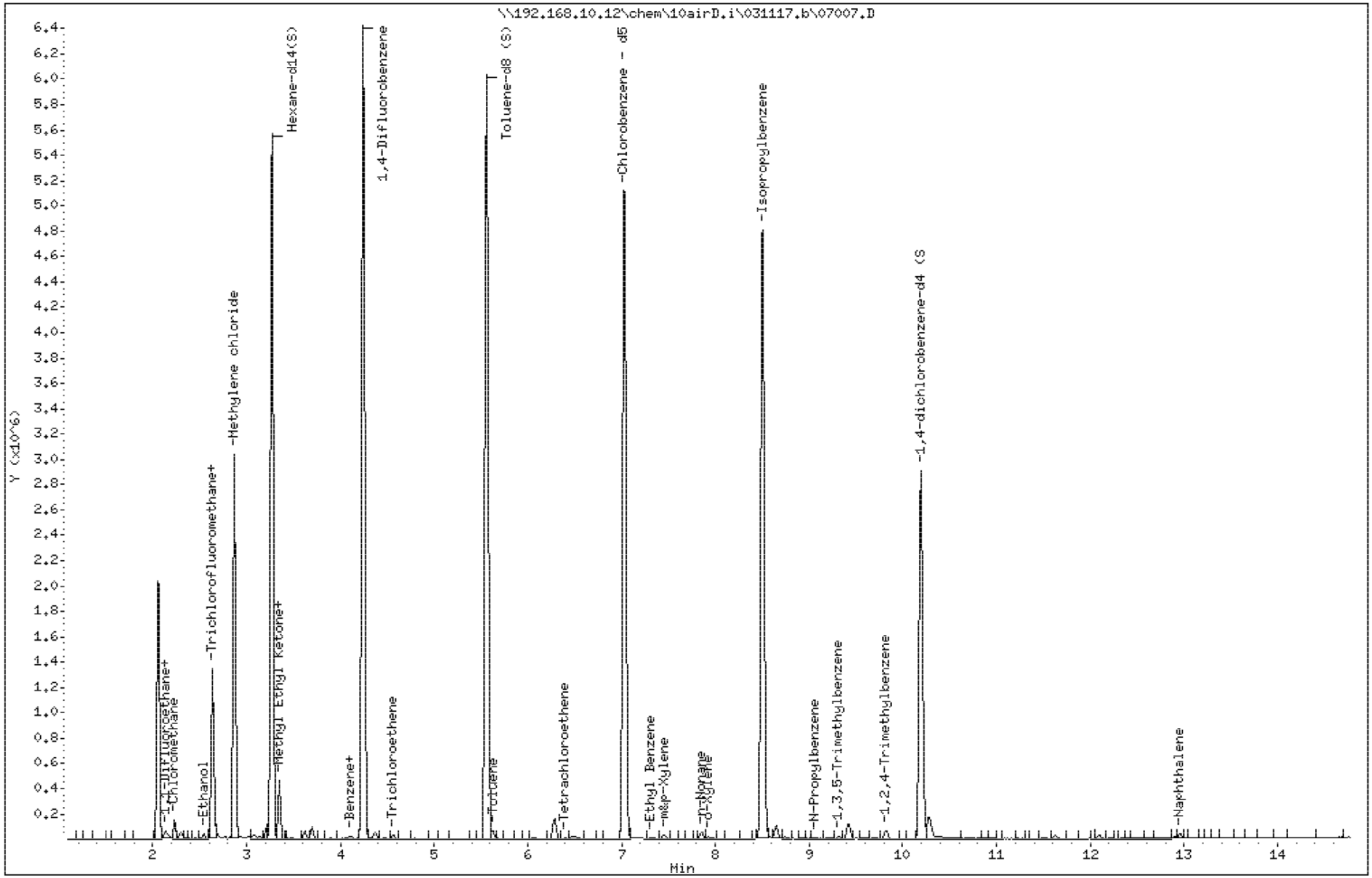
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3400896	-10.21
67 Chlorobenzene - d	3280875	1968525	4593225	2685352	-18.15

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D
Date : 11-MAR-2017 14:44
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

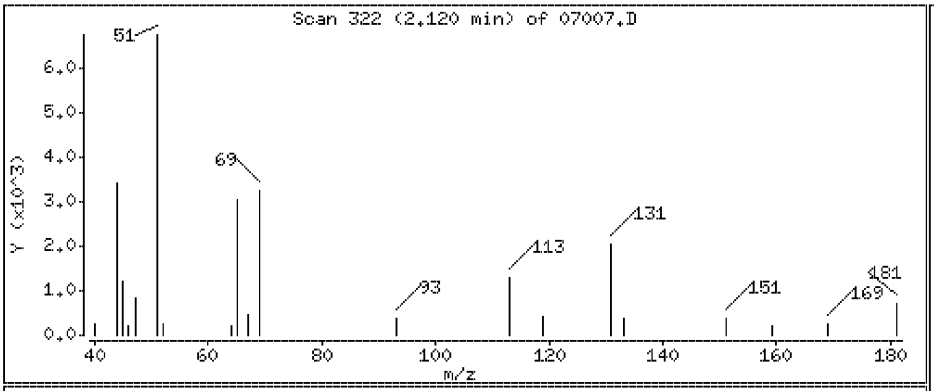
Operator: DR1

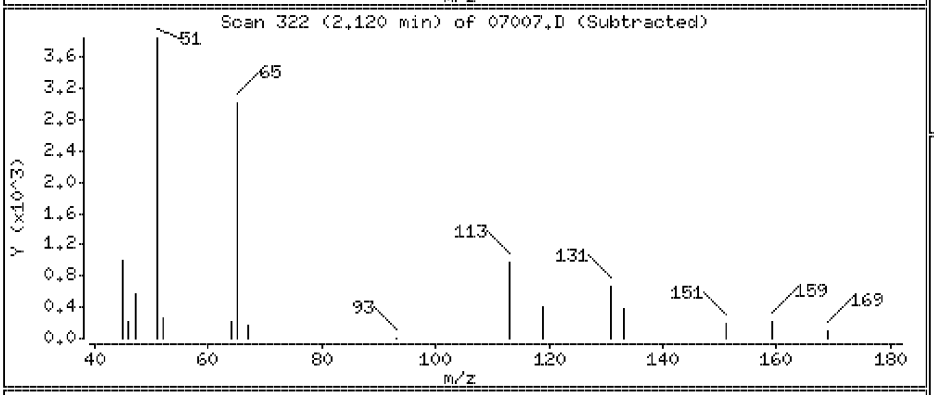
Column phase: J&W DB-5

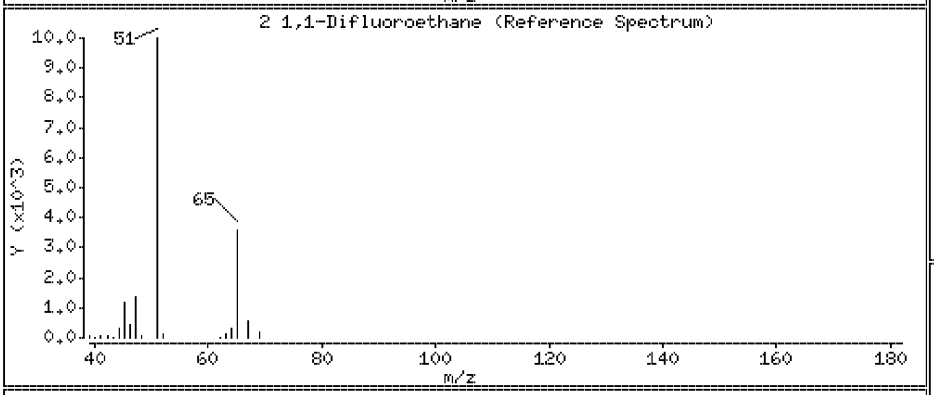
Column diameter: 0.32

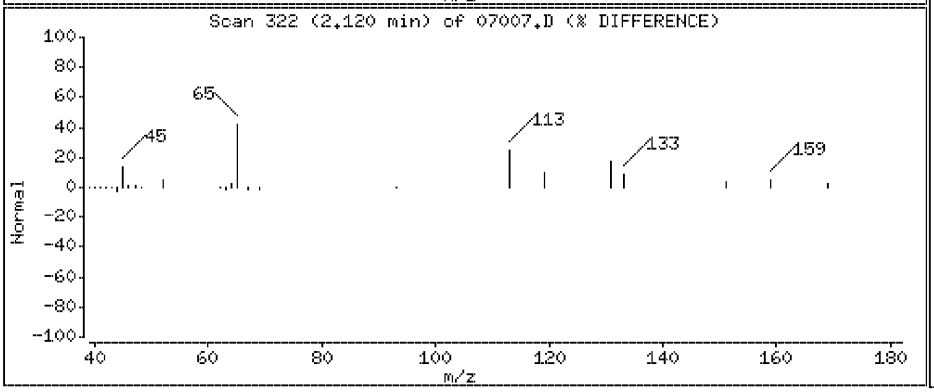
2 1,1-Difluoroethane

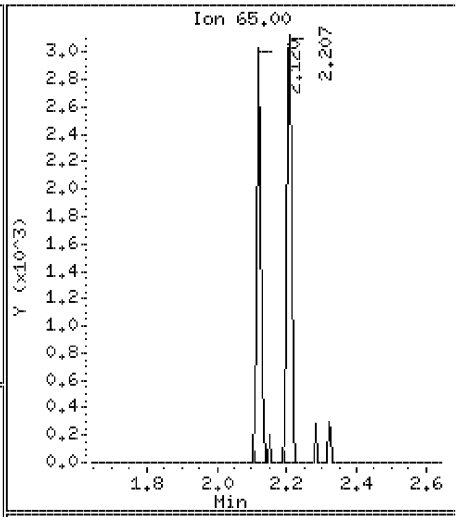
Concentration: 0.224 ppbv

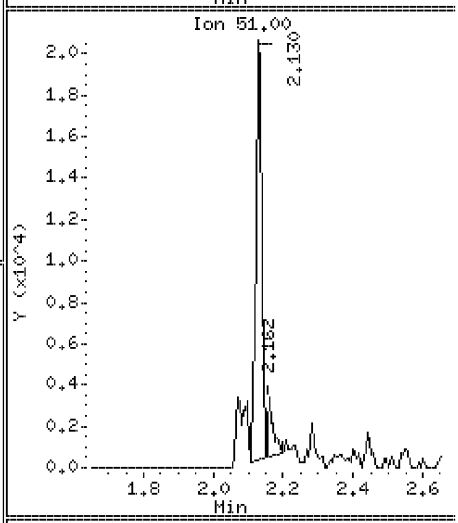


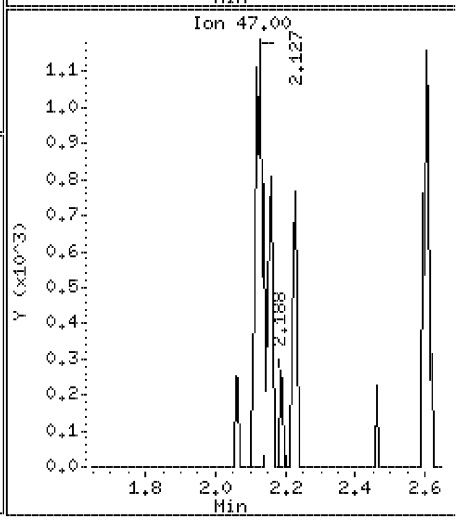












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

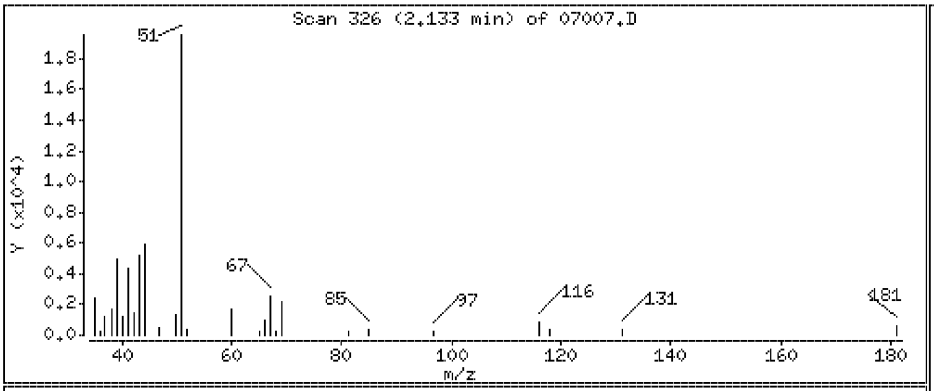
Operator: DR1

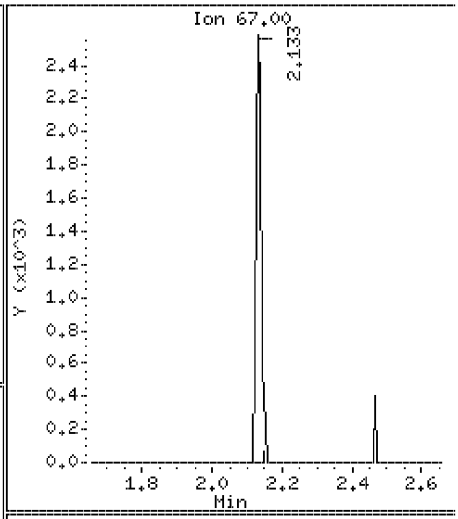
Column phase: J&W DB-5

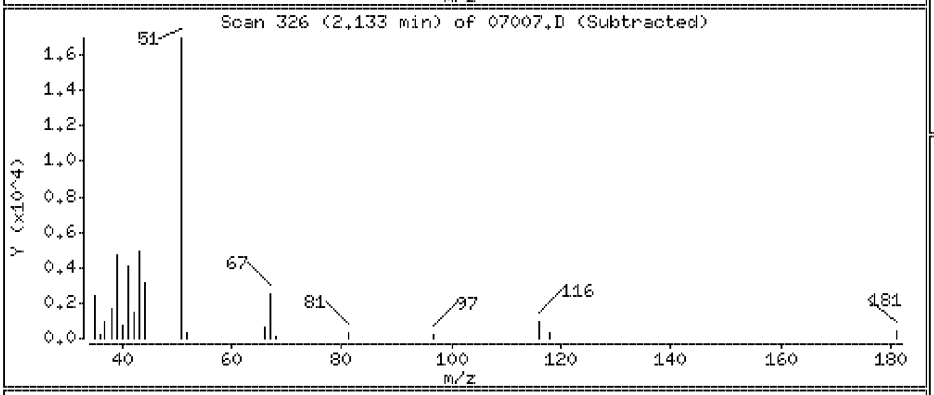
Column diameter: 0.32

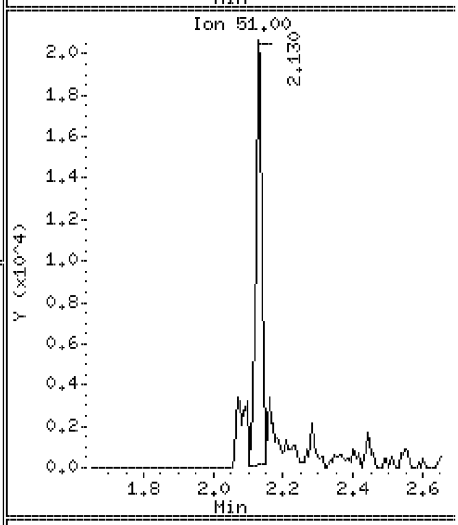
3 Chlorodifluoromethane

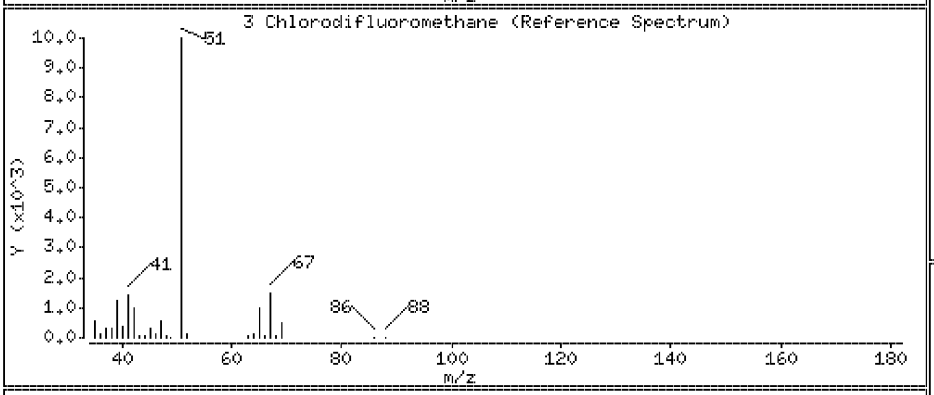
Concentration: 0.555 ppbv

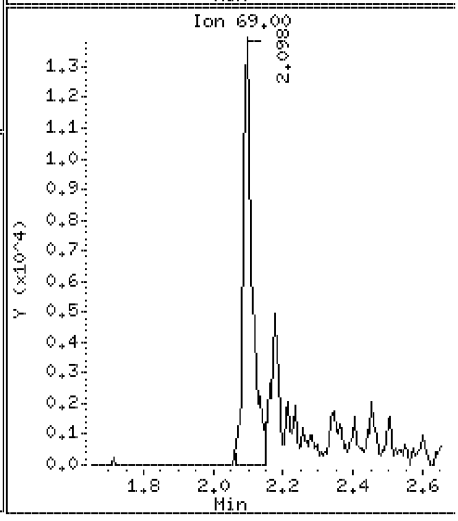


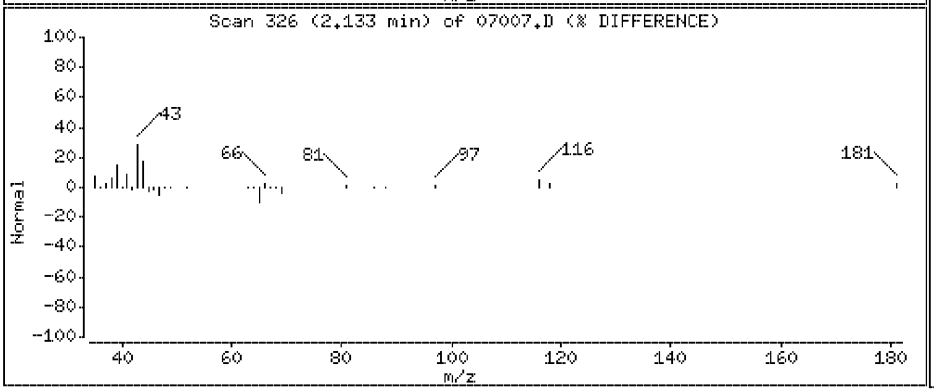












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

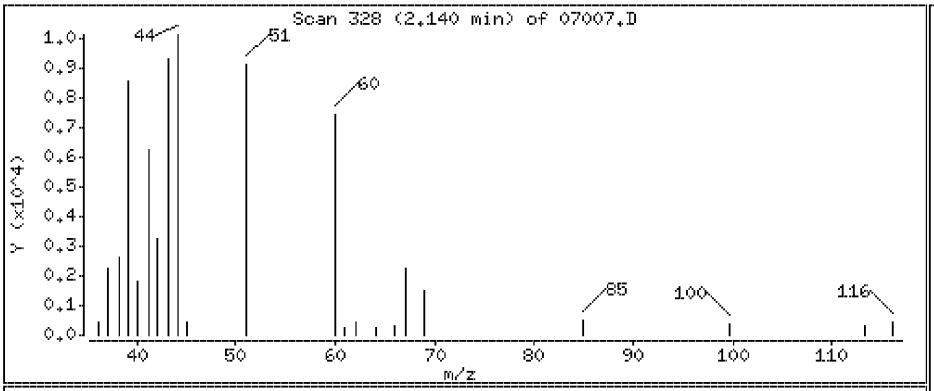
Operator: DR1

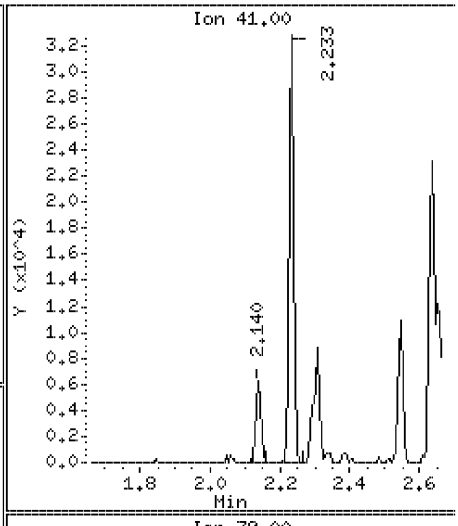
Column phase: J&W DB-5

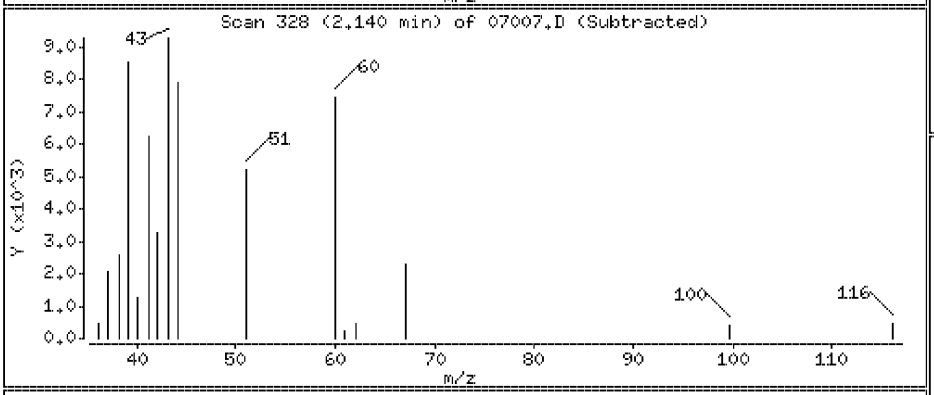
Column diameter: 0.32

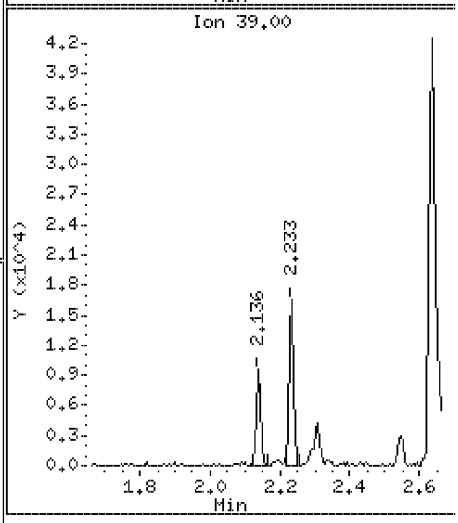
4 Propylene

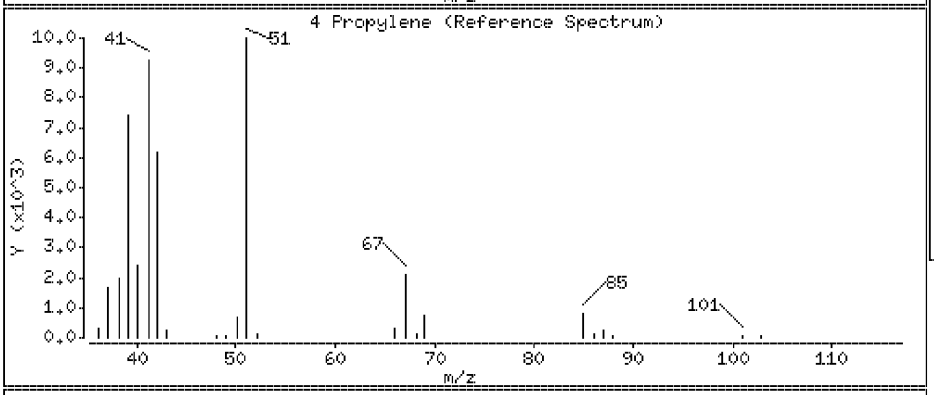
Concentration: 0.185 ppbv

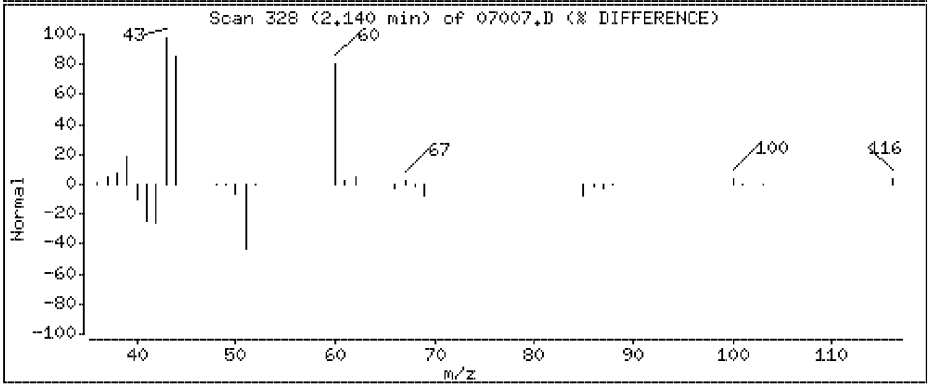












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

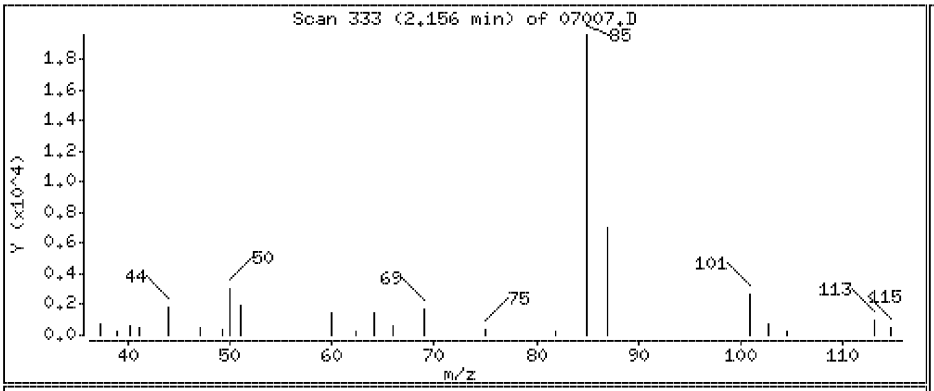
Operator: DR1

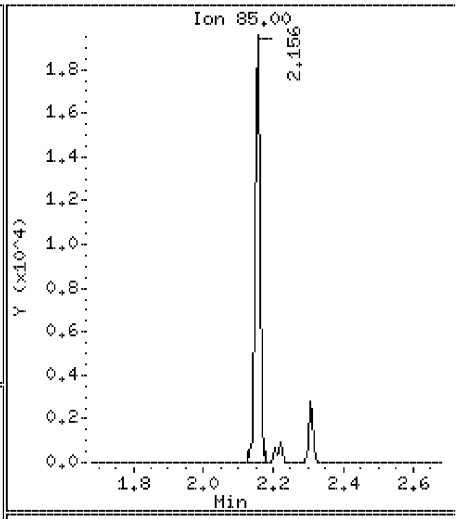
Column phase: J&W DB-5

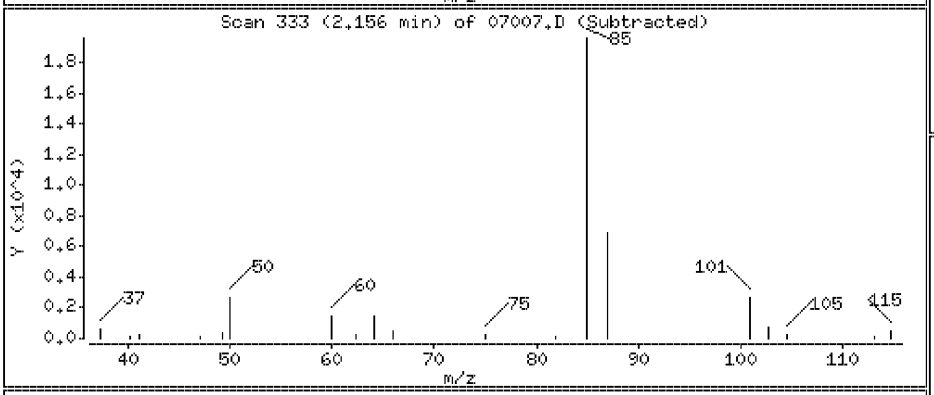
Column diameter: 0.32

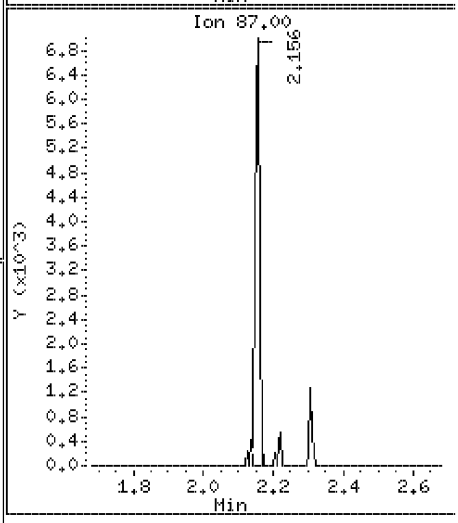
5 Dichlorodifluoromethane

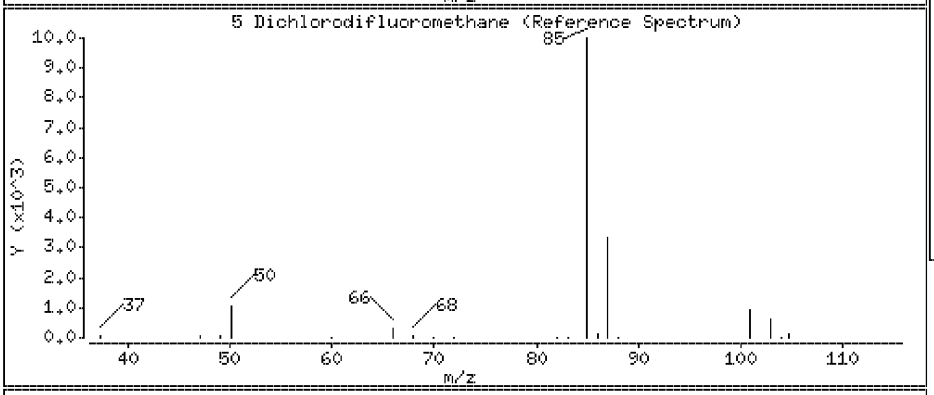
Concentration: 0.401 ppbv

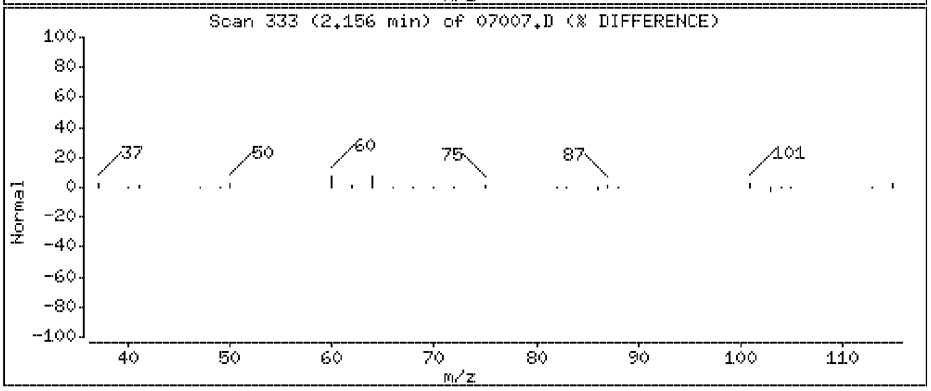












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

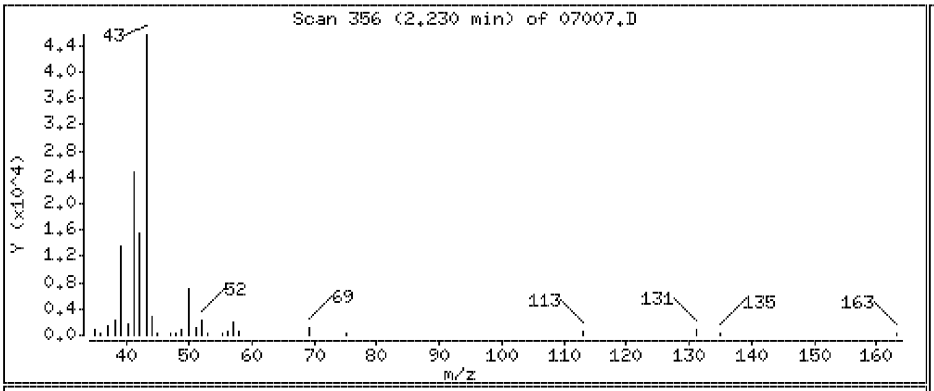
Operator: DR1

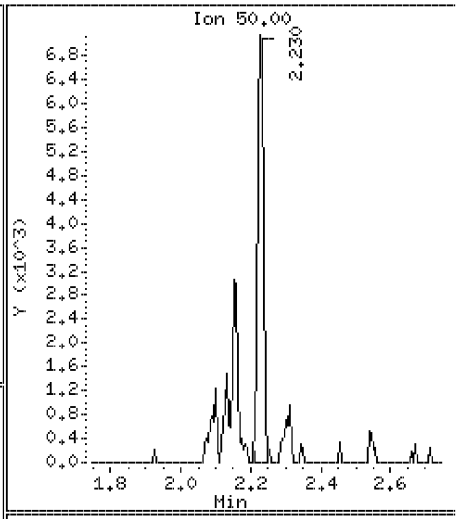
Column phase: J&W DB-5

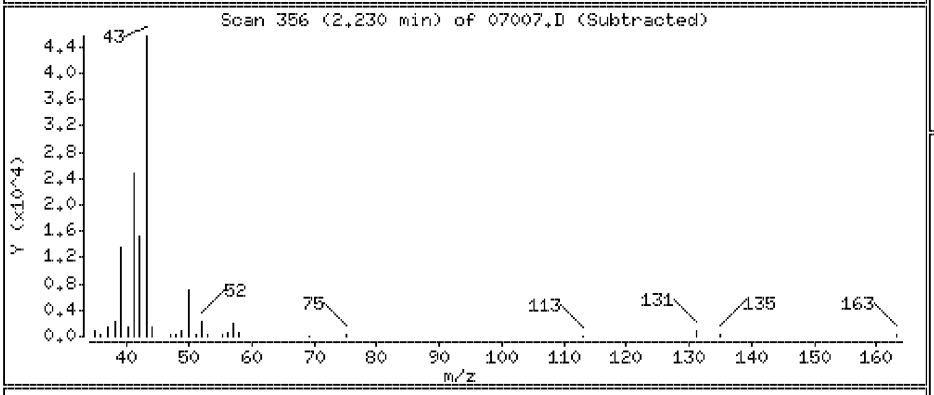
Column diameter: 0.32

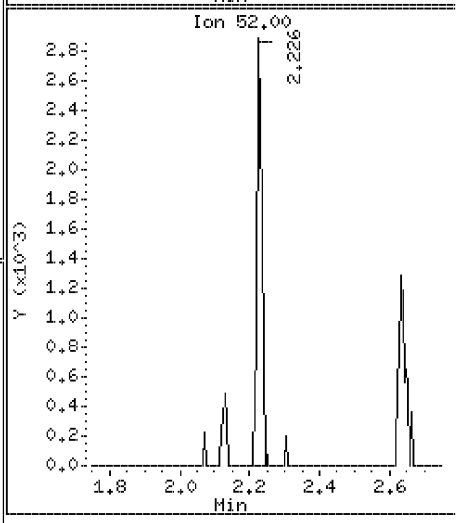
7 Chloromethane

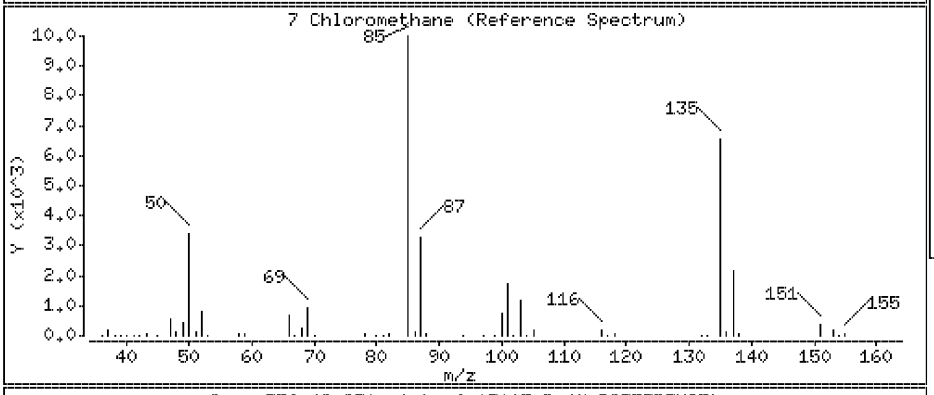
Concentration: 0.384 ppbv

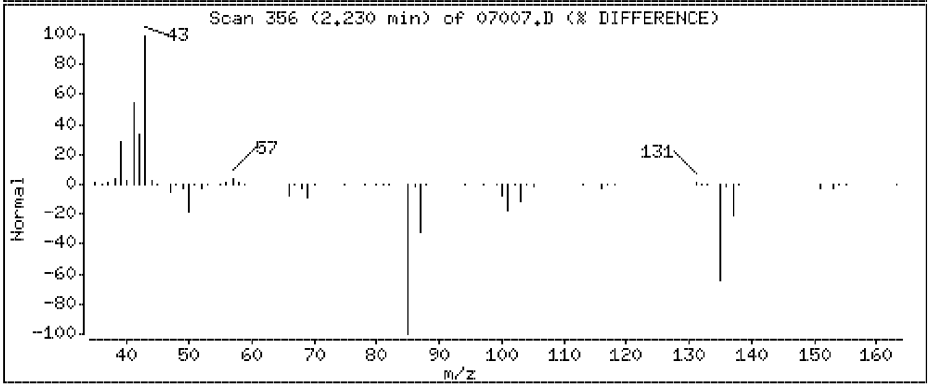












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

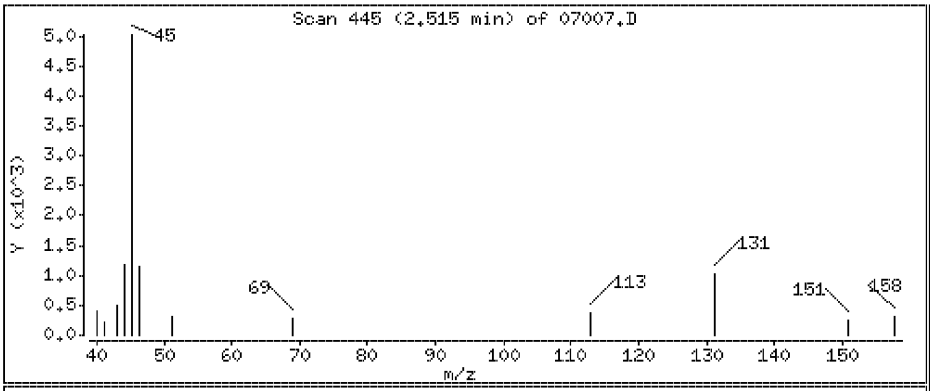
Operator: DR1

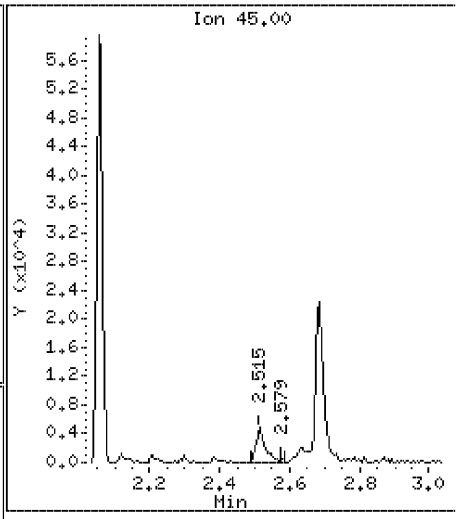
Column phase: J&W DB-5

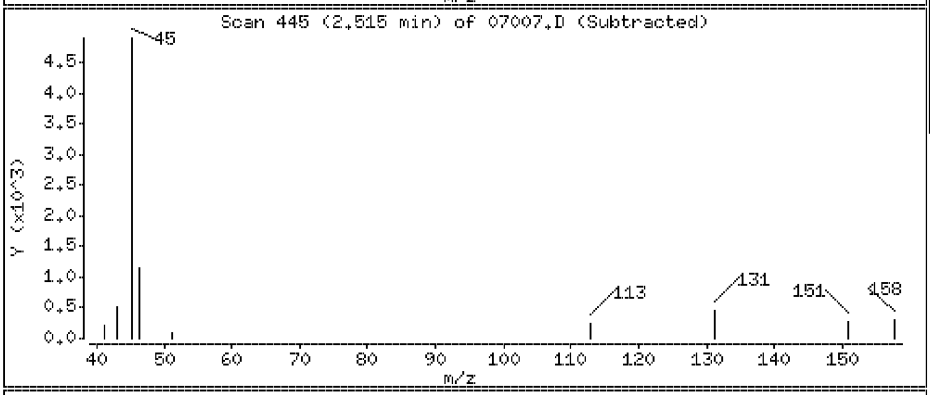
Column diameter: 0.32

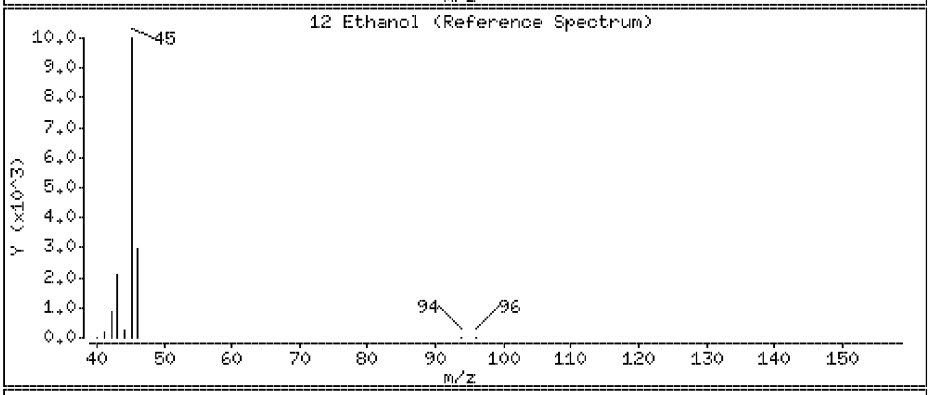
12 Ethanol

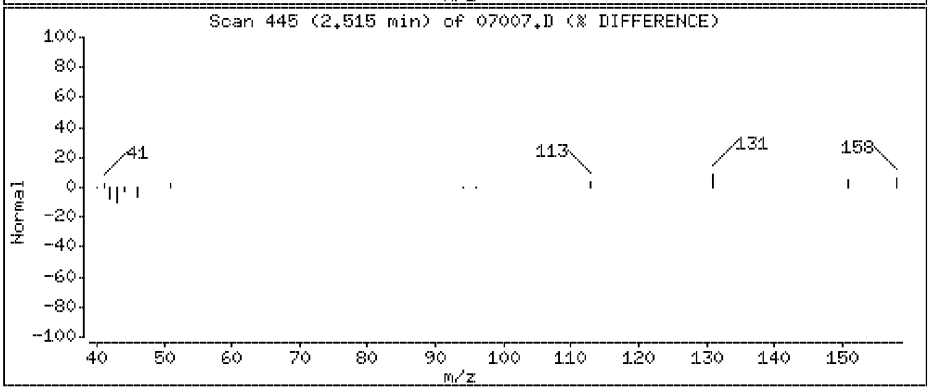
Concentration: 2.76 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

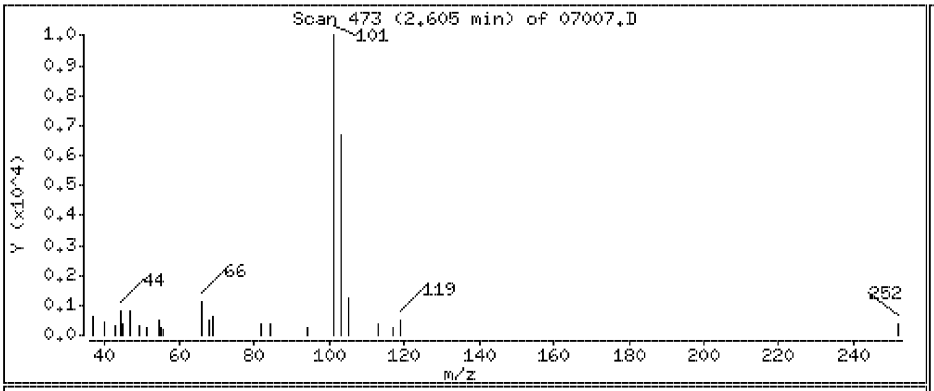
Operator: DR1

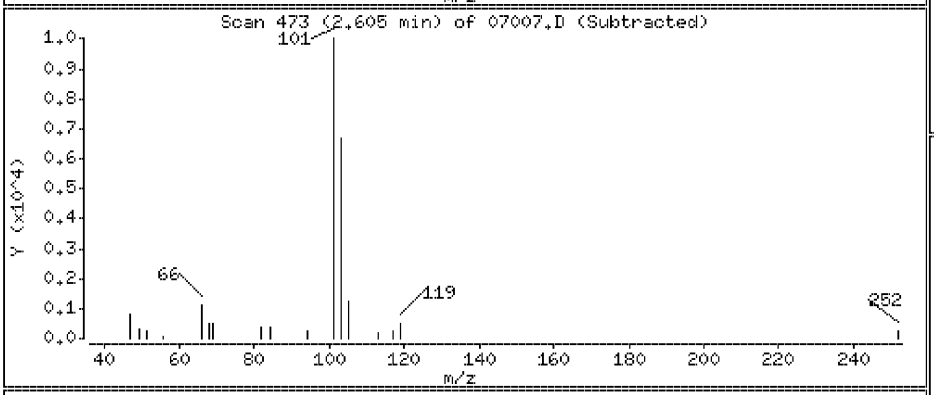
Column phase: J&W DB-5

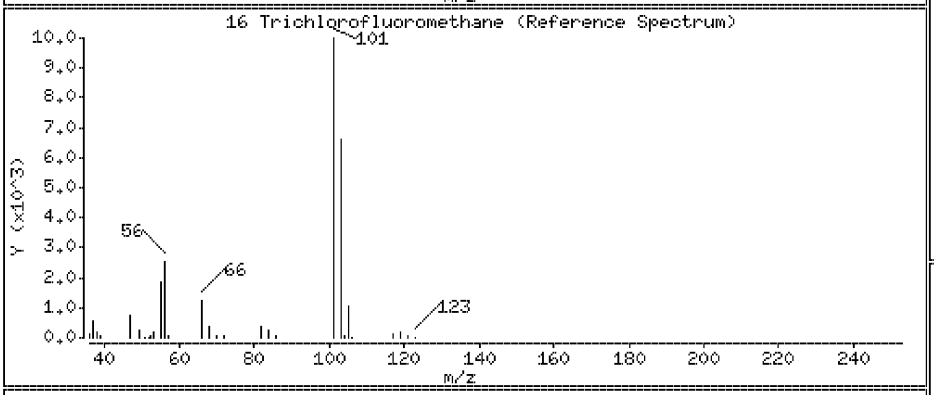
Column diameter: 0.32

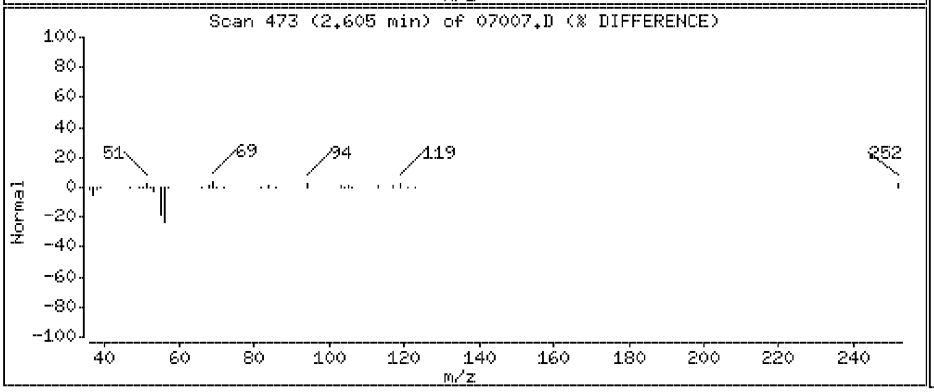
16 Trichlorofluoromethane

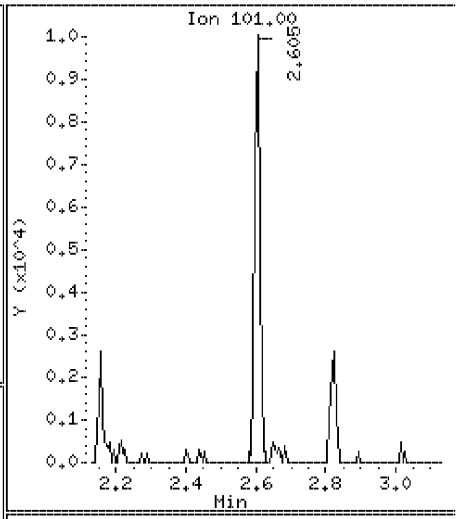
Concentration: 0.232 ppbv

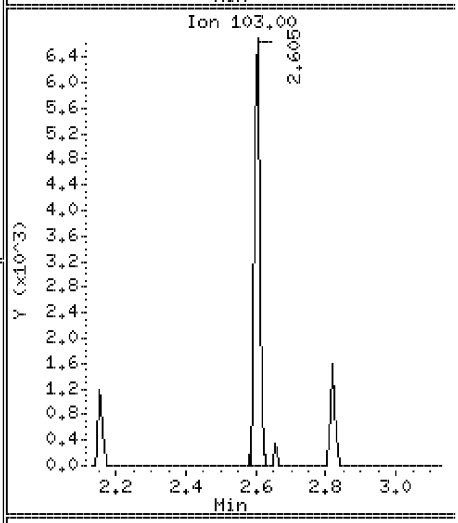


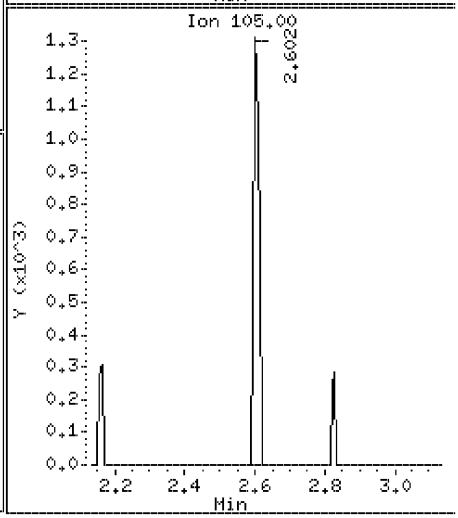












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

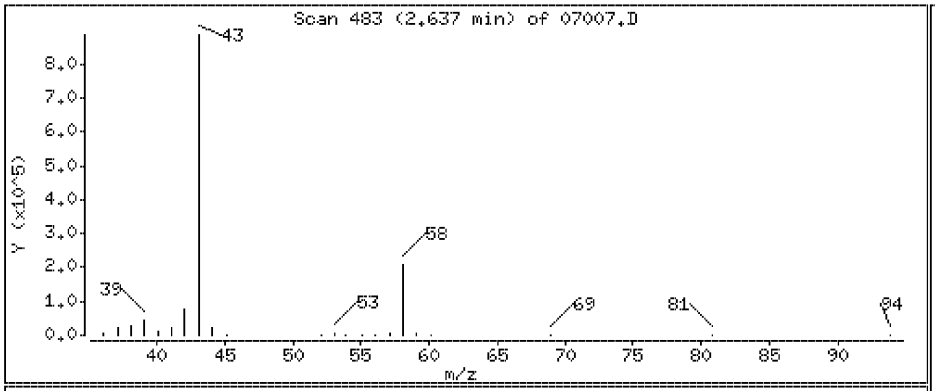
Operator: DR1

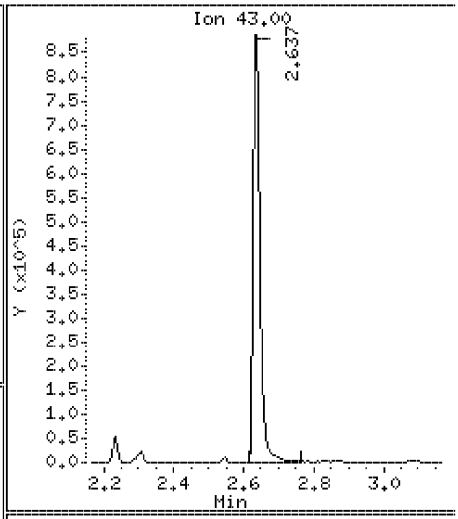
Column phase: J&W DB-5

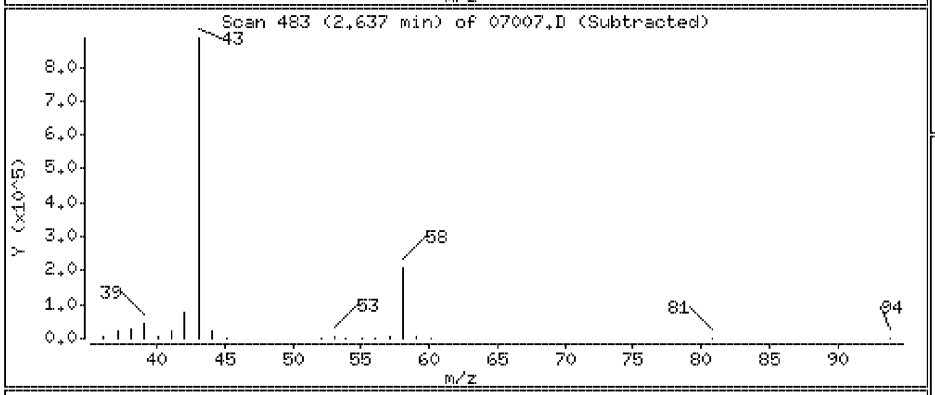
Column diameter: 0.32

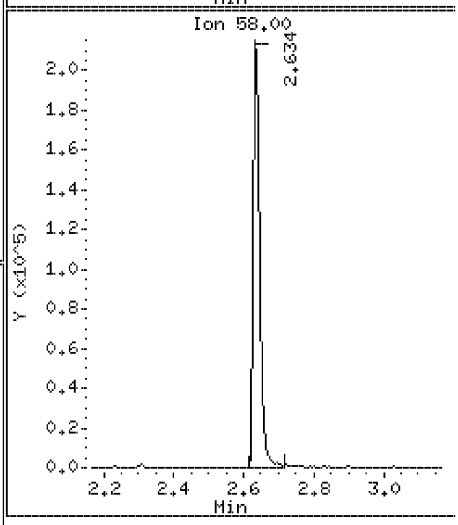
18 Acetone

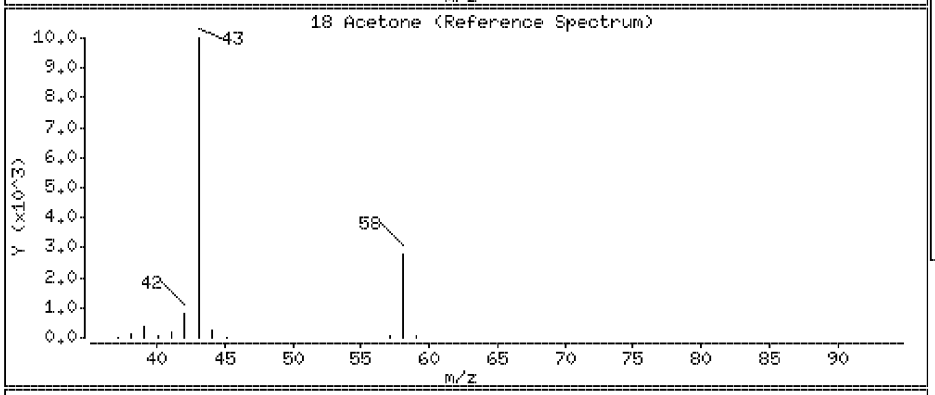
Concentration: 51.4 ppbv

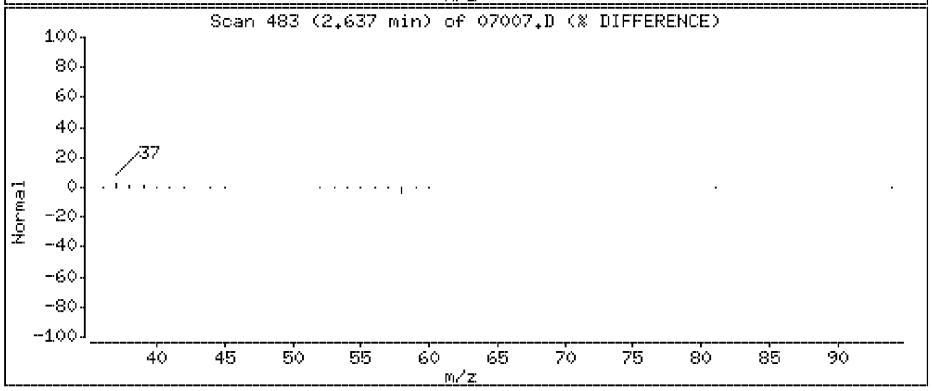












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

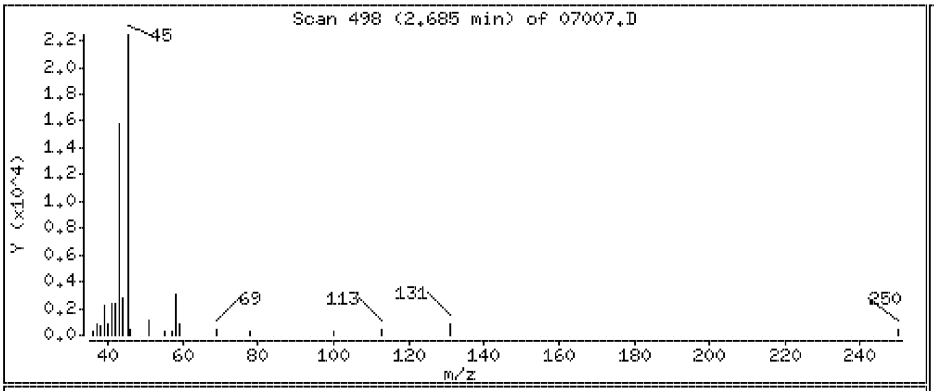
Operator: DR1

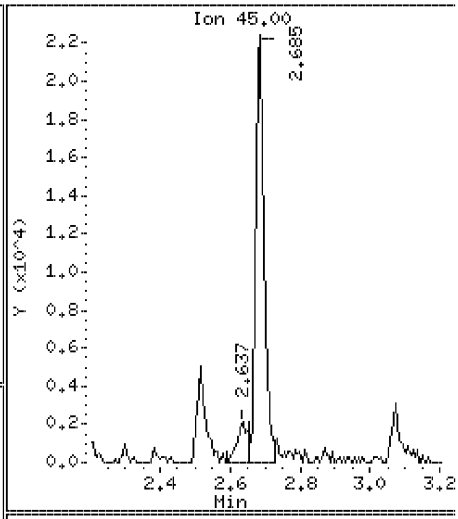
Column phase: J&W DB-5

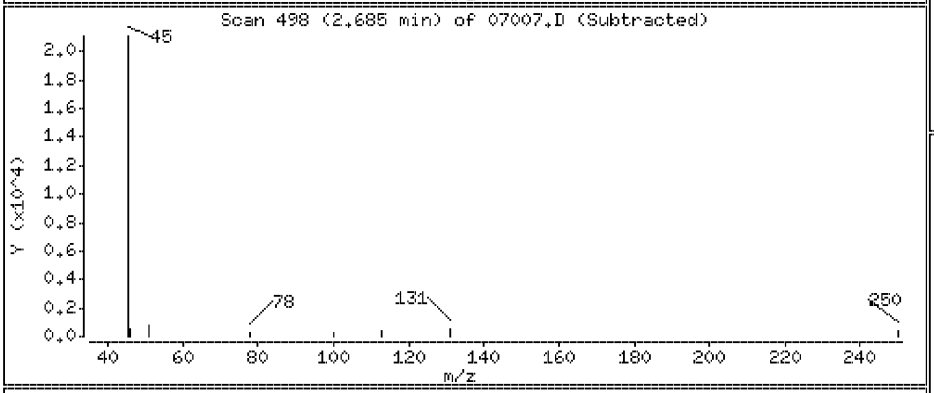
Column diameter: 0.32

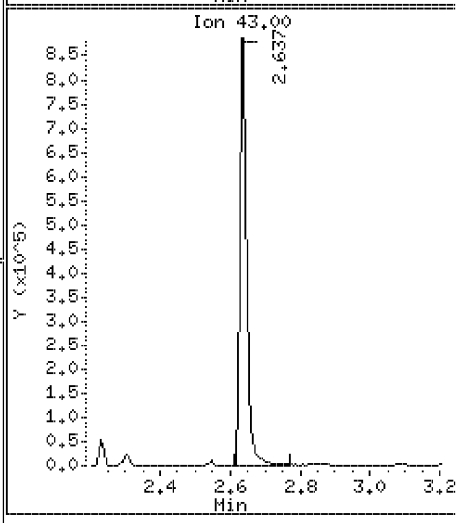
19 Isopropyl Alcohol

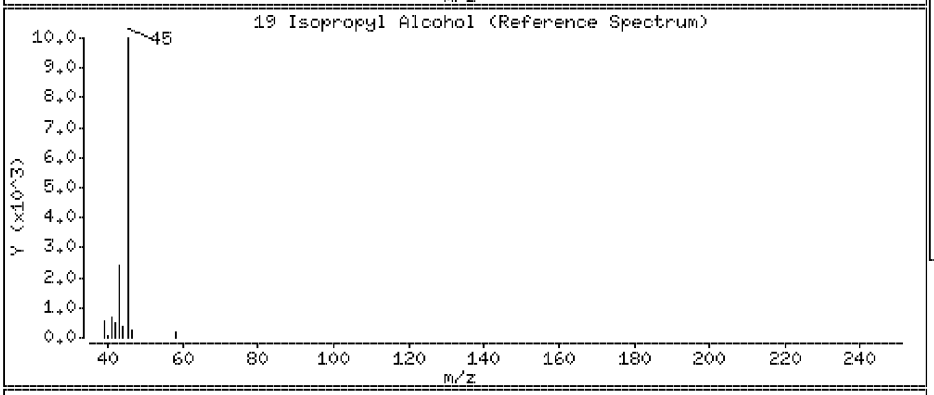
Concentration: 2.31 ppbv

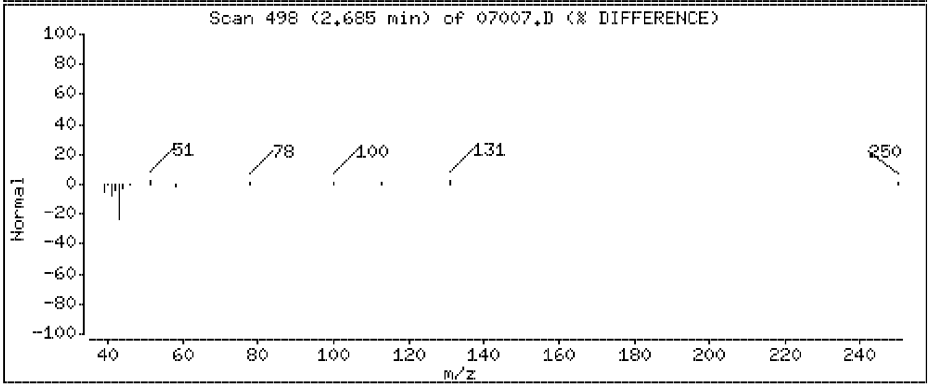












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

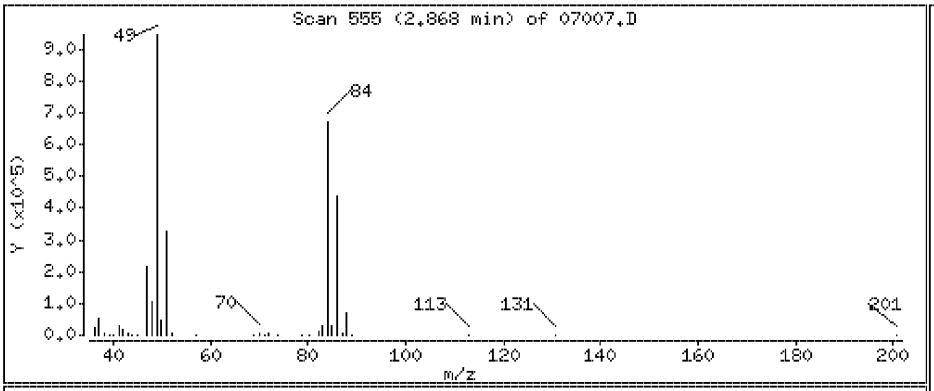
Operator: DR1

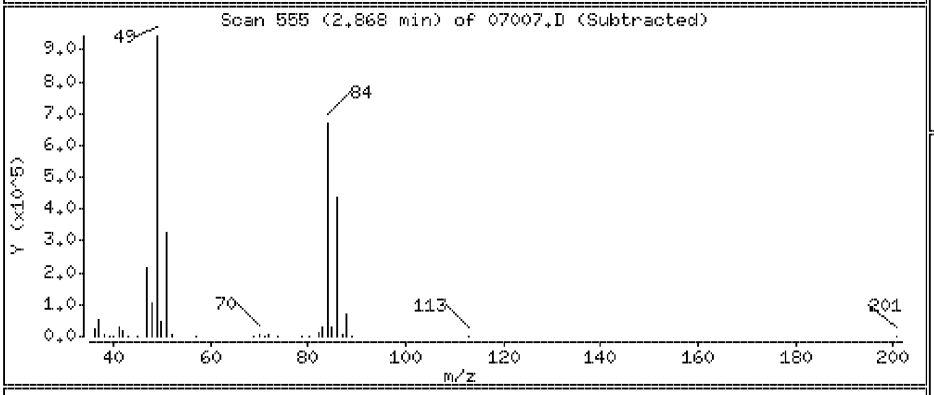
Column phase: J&W DB-5

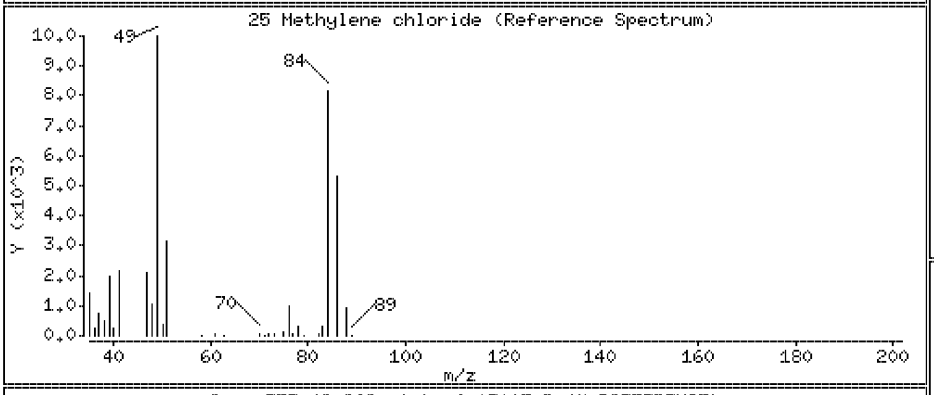
Column diameter: 0.32

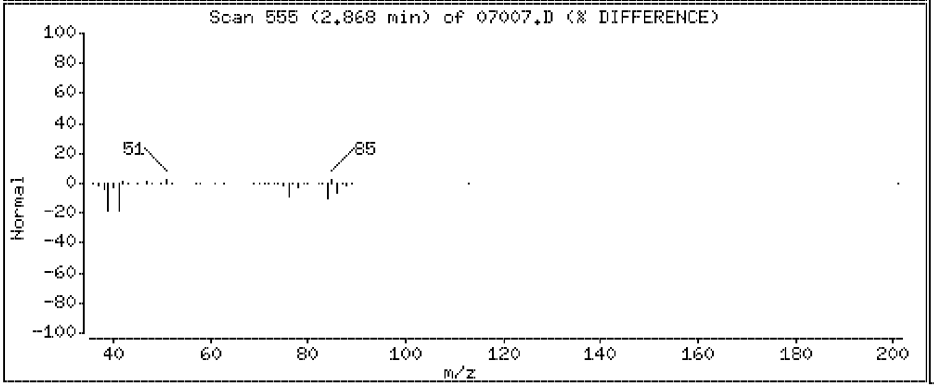
25 Methylene chloride

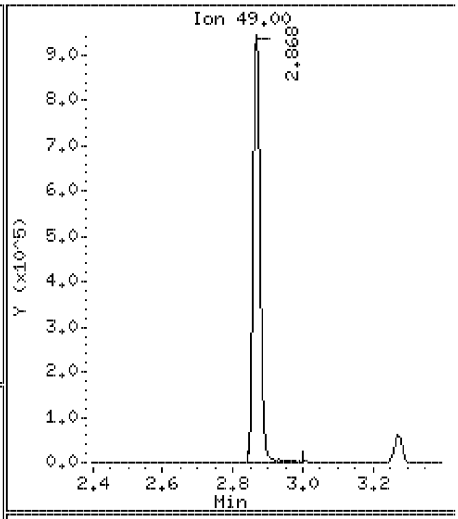
Concentration: 71.4 ppbv

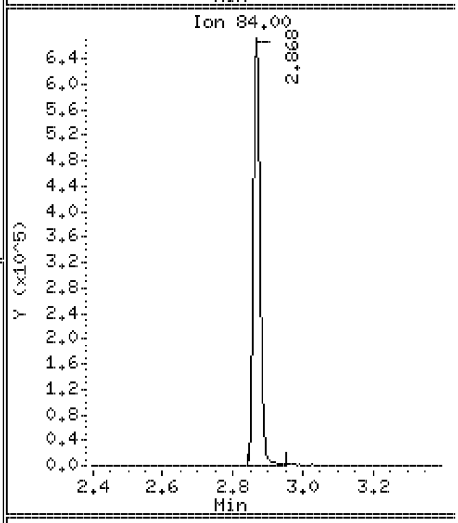


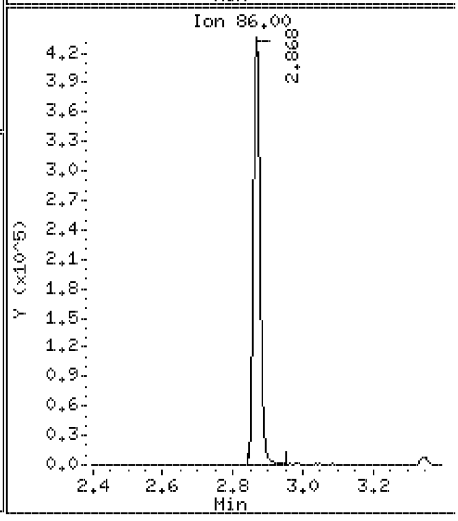












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

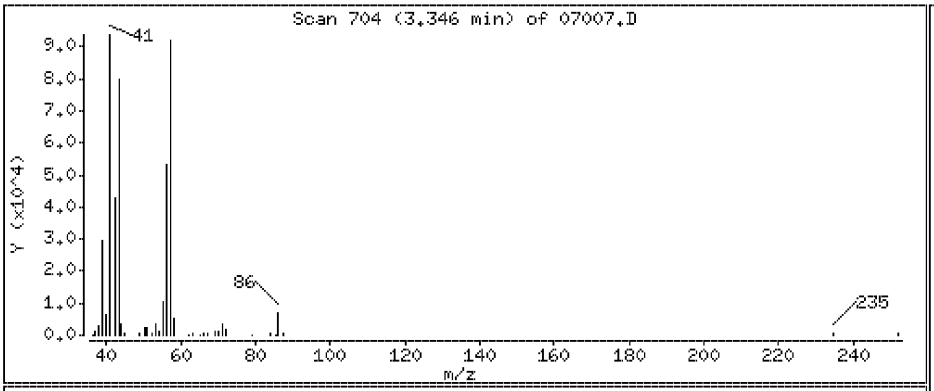
Operator: DR1

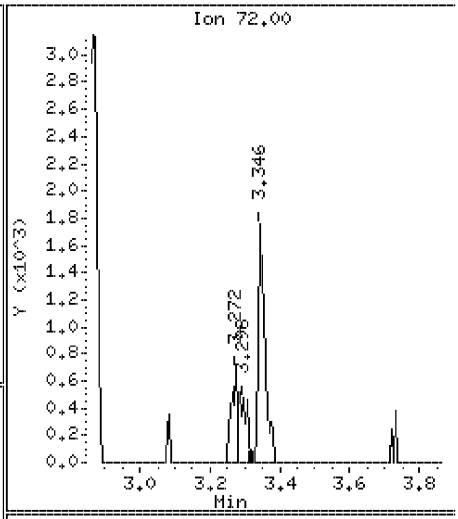
Column phase: J&W DB-5

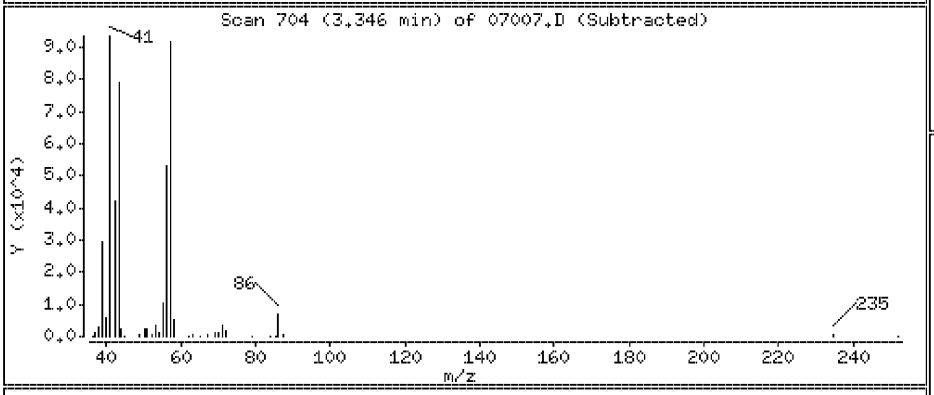
Column diameter: 0.32

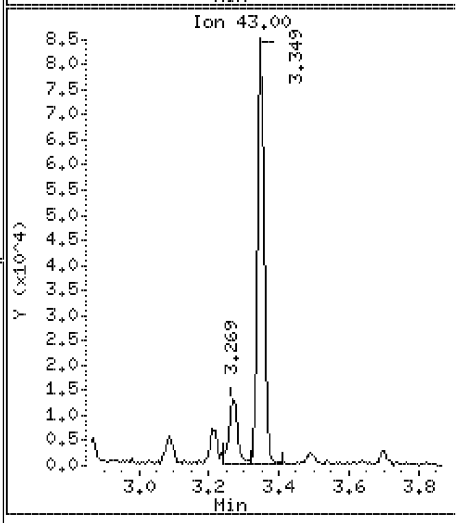
33 Methyl Ethyl Ketone

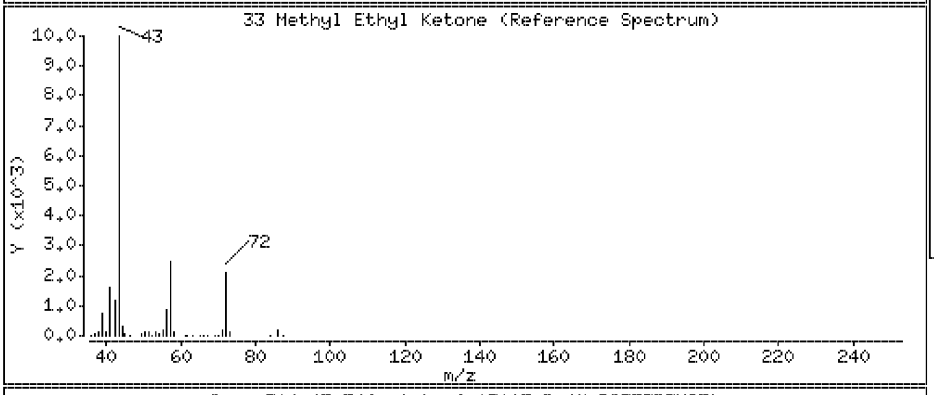
Concentration: 0.324 ppbv

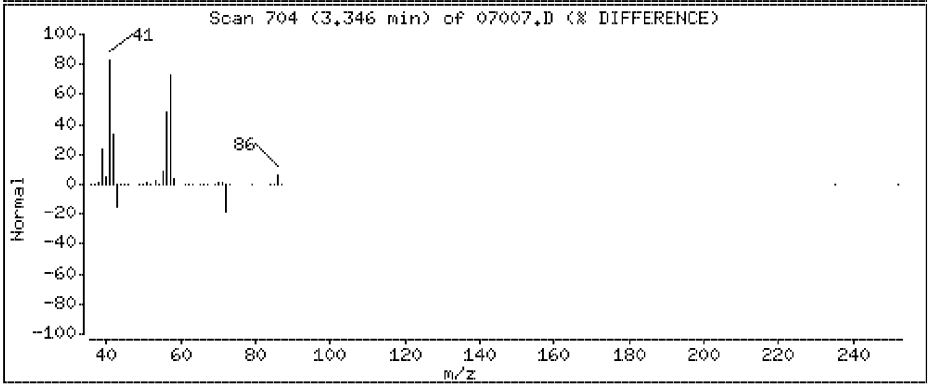












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

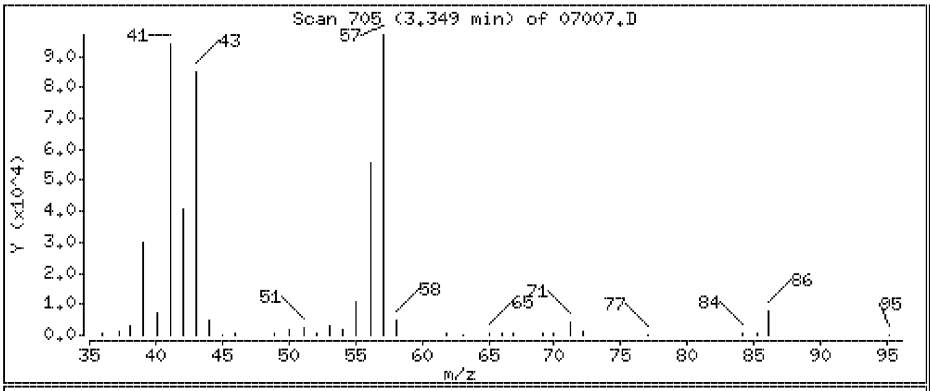
Operator: DR1

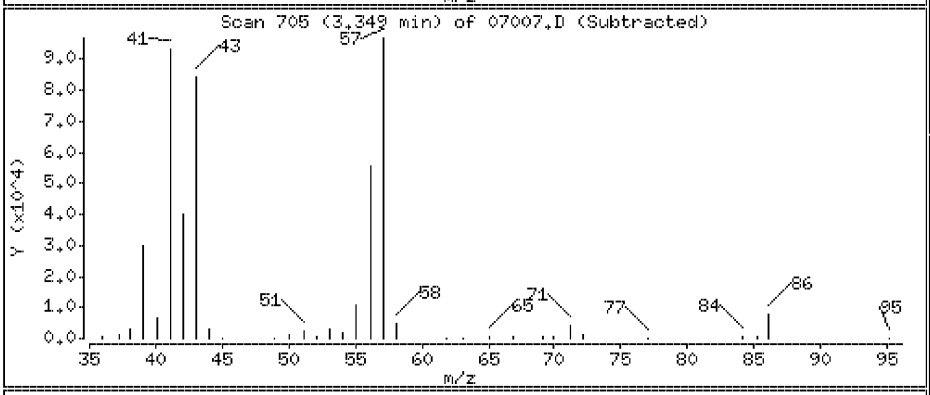
Column phase: J&W DB-5

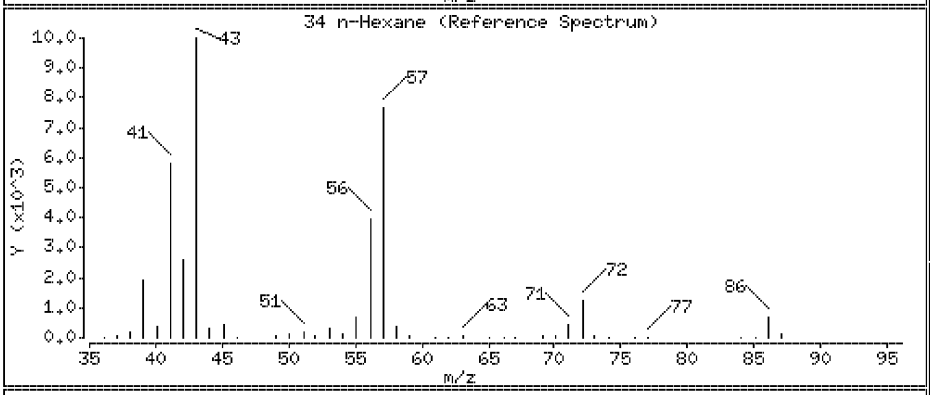
Column diameter: 0.32

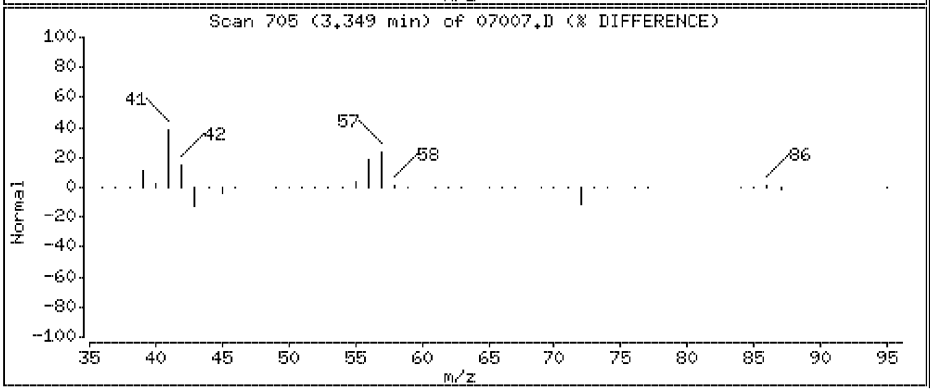
34 n-Hexane

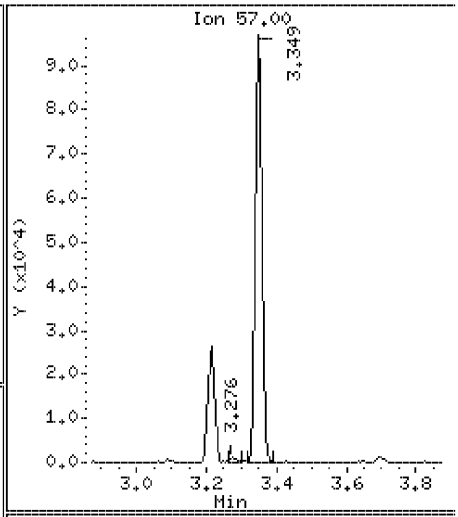
Concentration: 5.60 ppbv

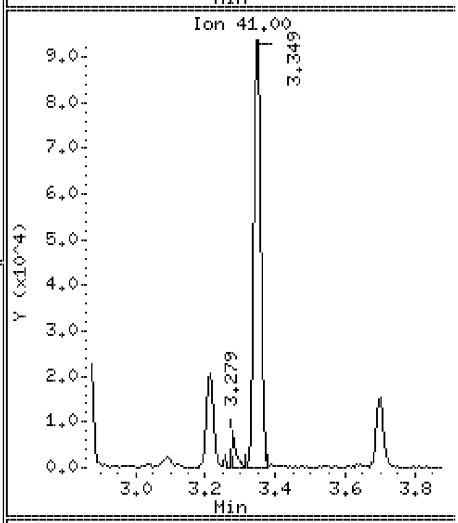


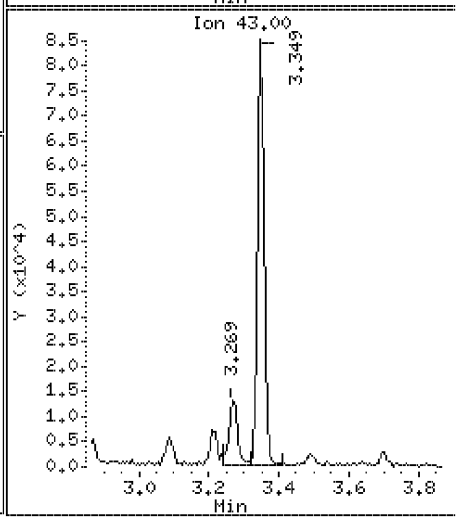












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

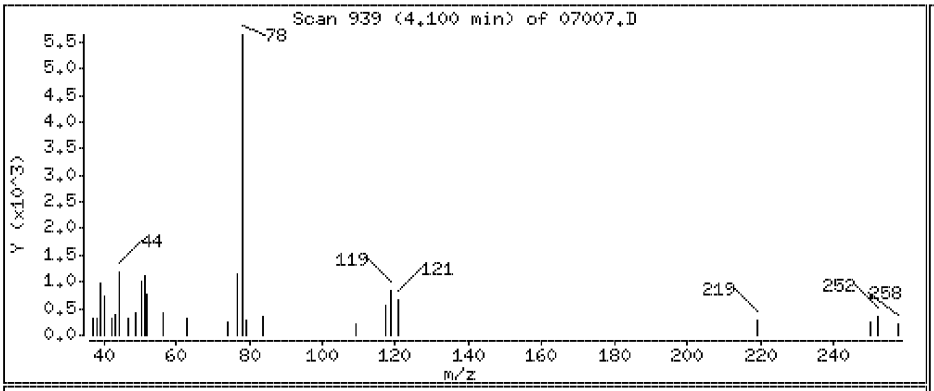
Operator: DR1

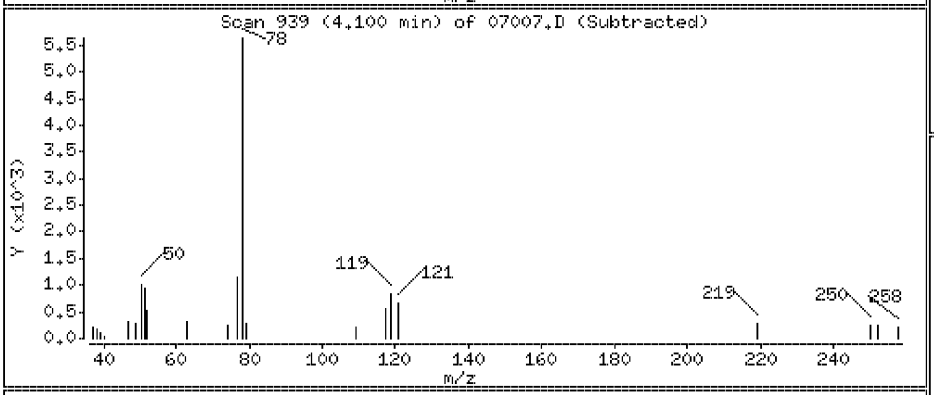
Column phase: J&W DB-5

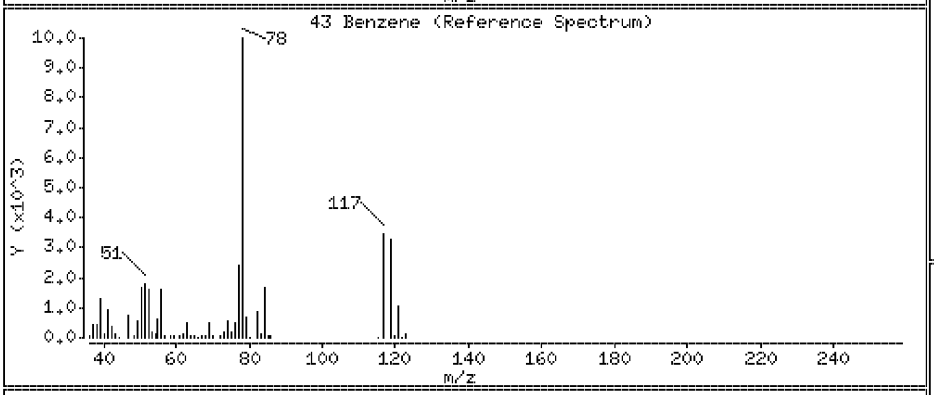
Column diameter: 0.32

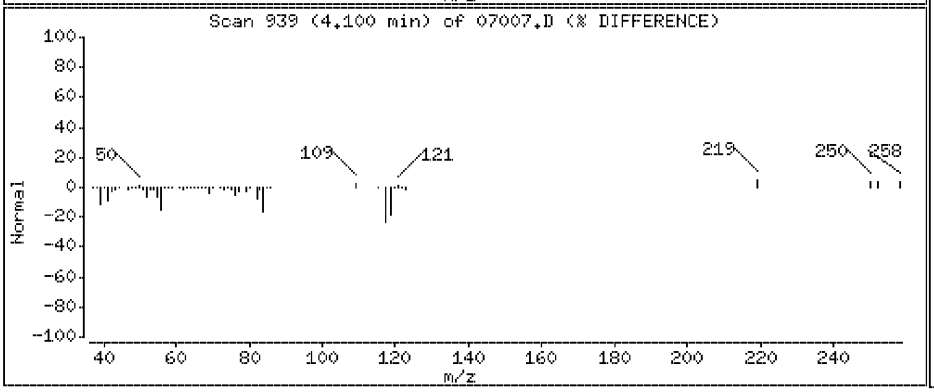
43 Benzene

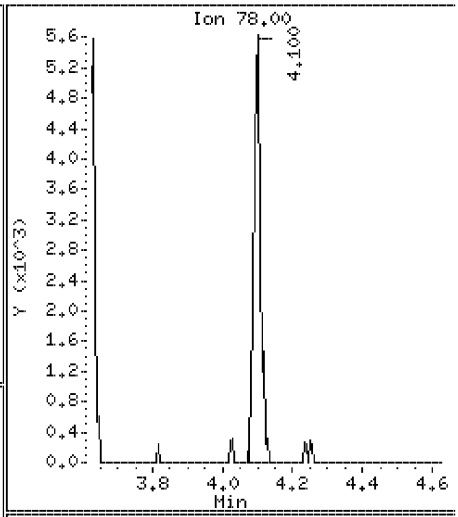
Concentration: 0.173 ppbv

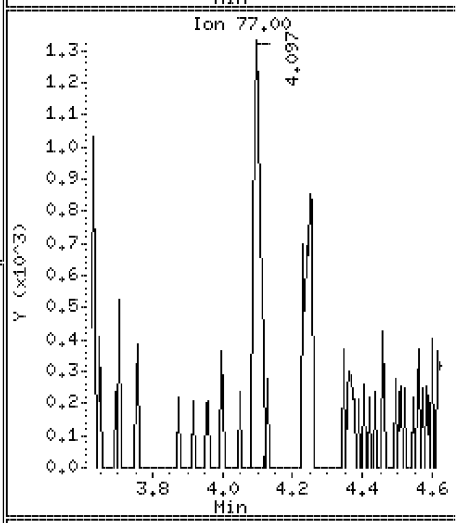


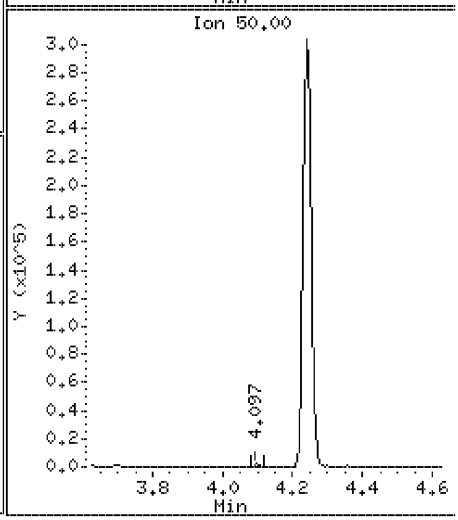












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

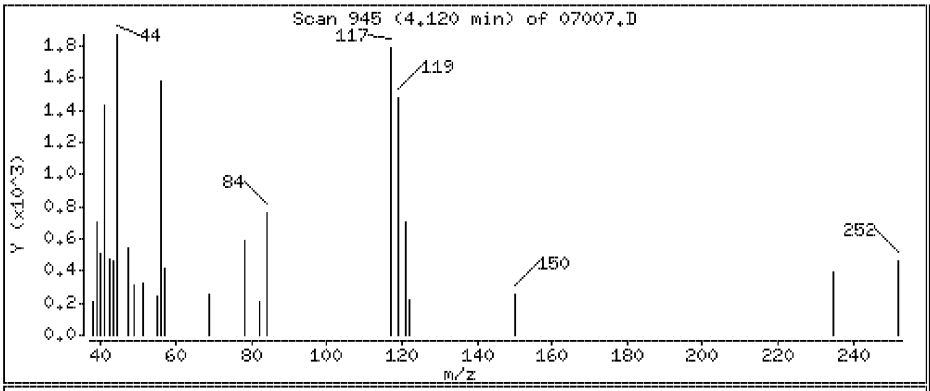
Operator: DR1

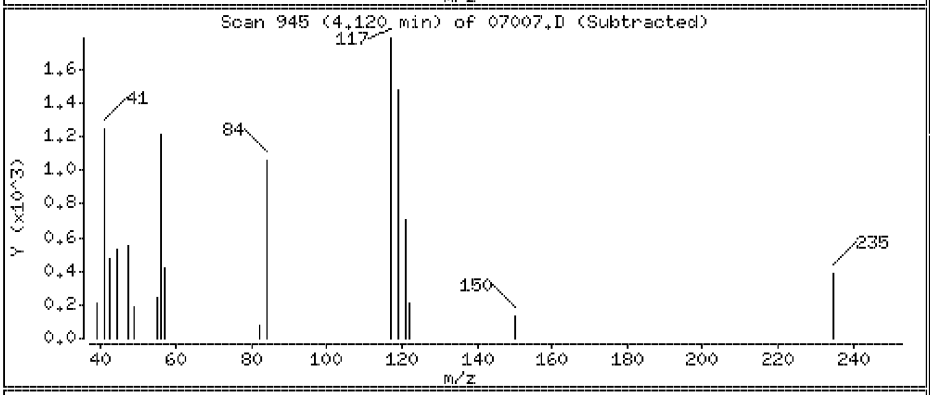
Column phase: J&W DB-5

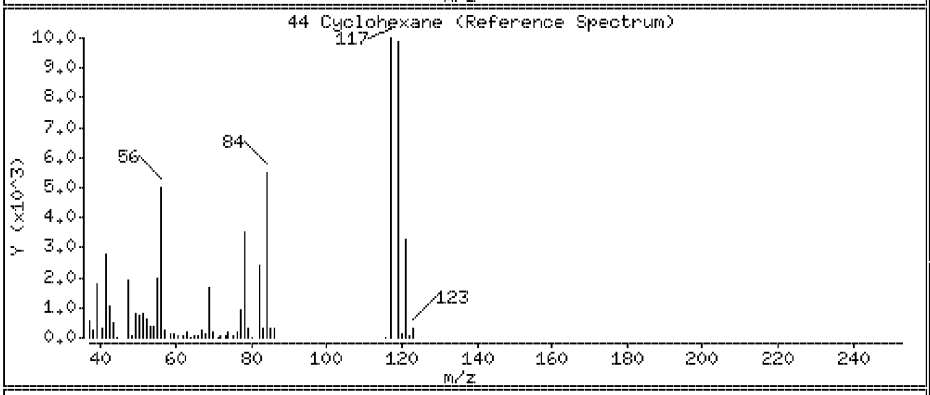
Column diameter: 0.32

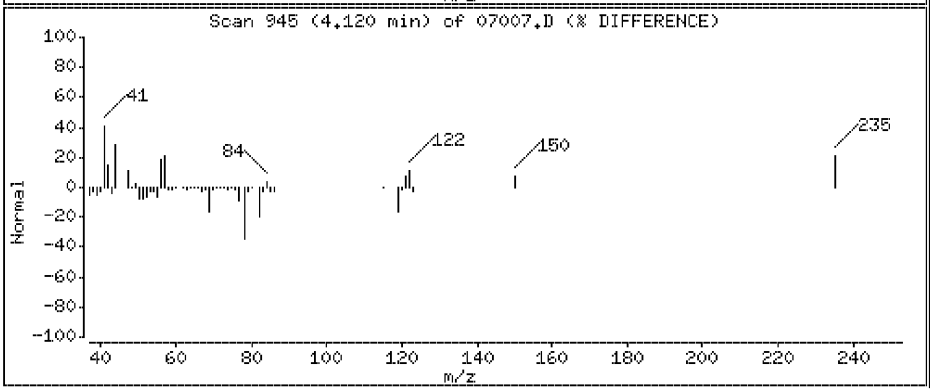
44 Cyclohexane

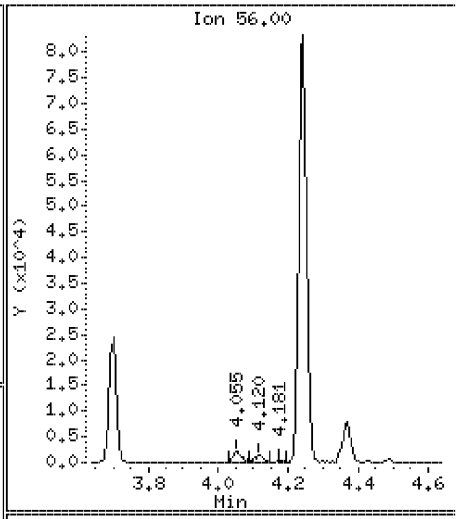
Concentration: 0.109 ppbv

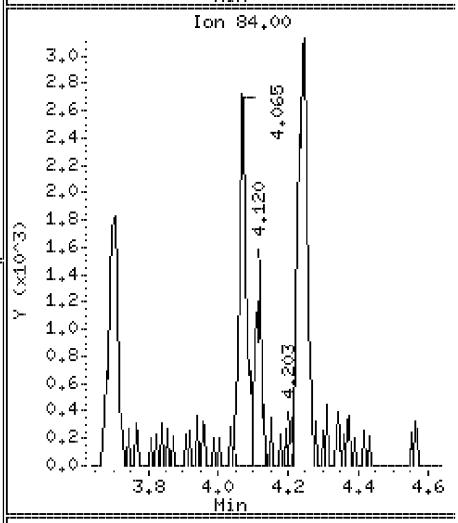


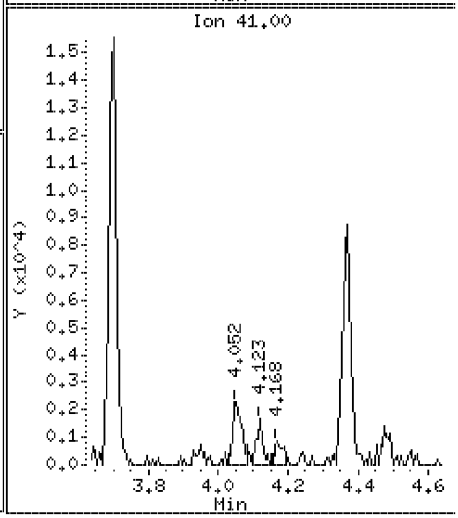












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

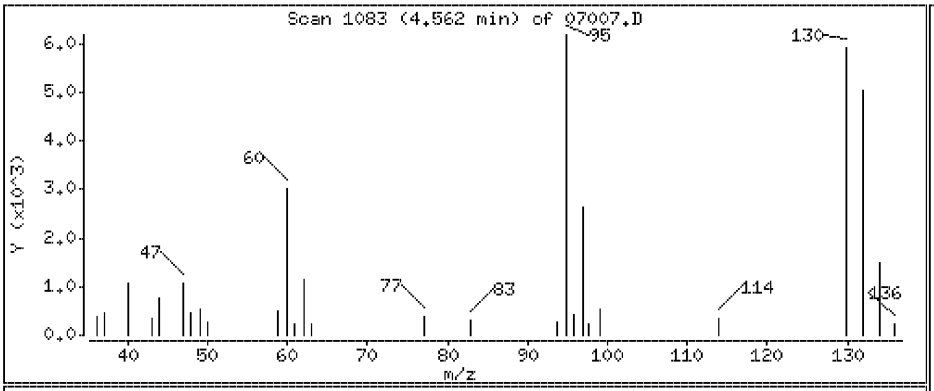
Operator: DR1

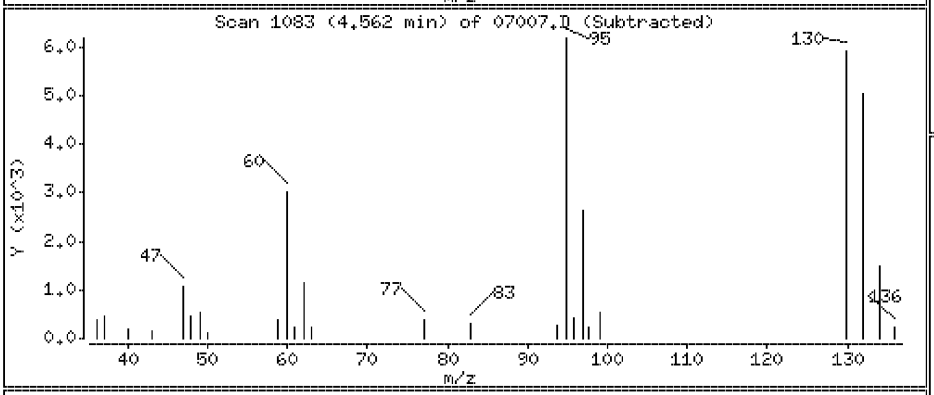
Column phase: J&W DB-5

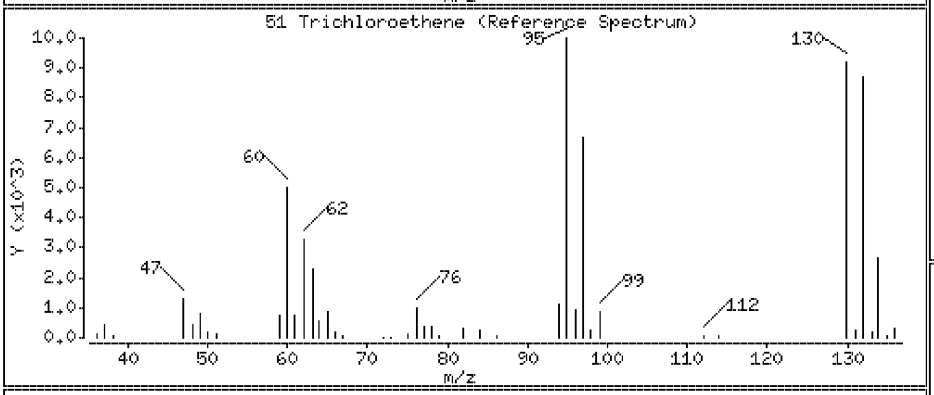
Column diameter: 0.32

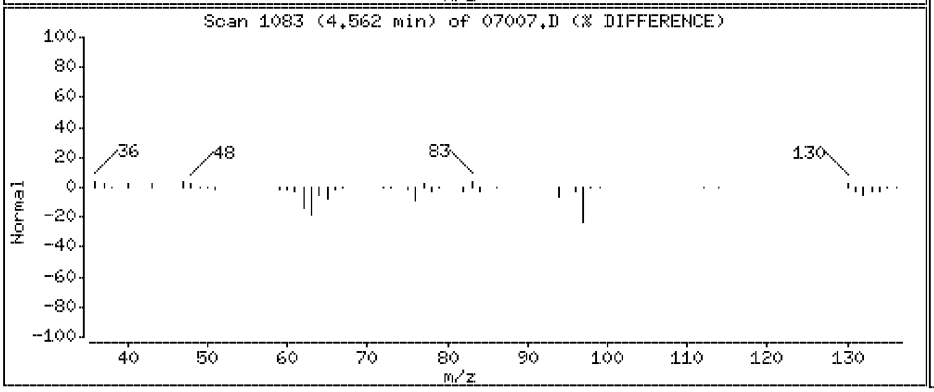
51 Trichloroethene

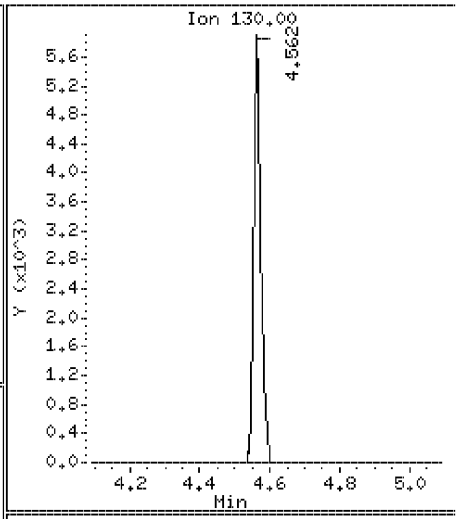
Concentration: 0.339 ppbv

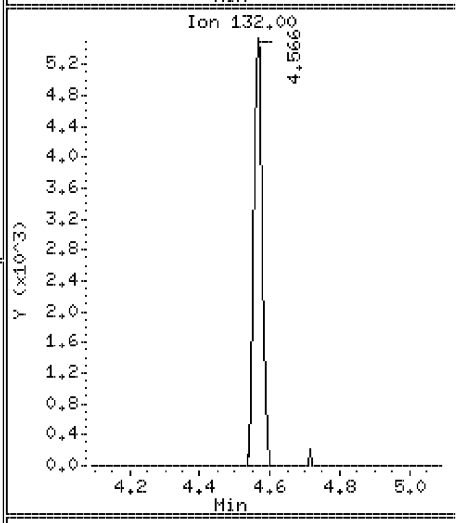


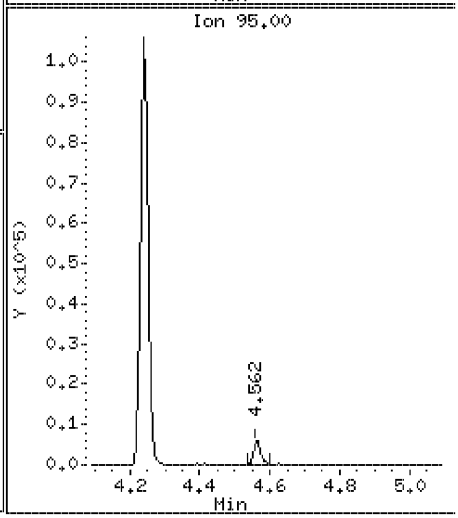












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

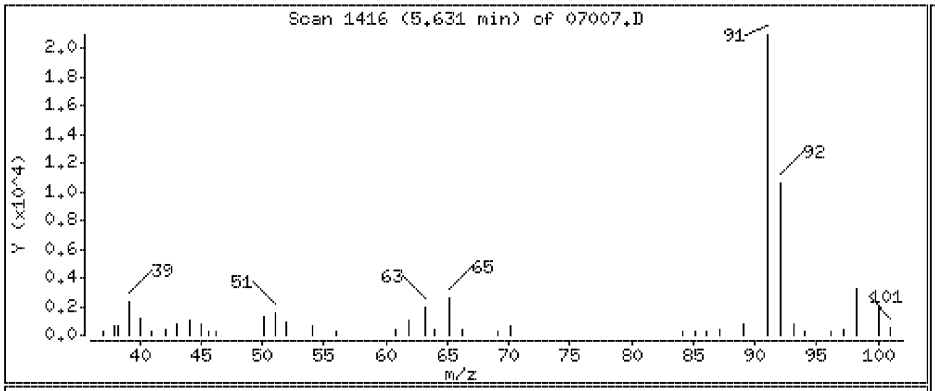
Operator: DR1

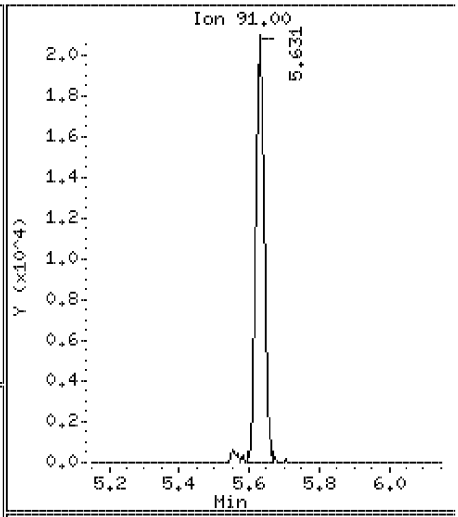
Column phase: J&W DB-5

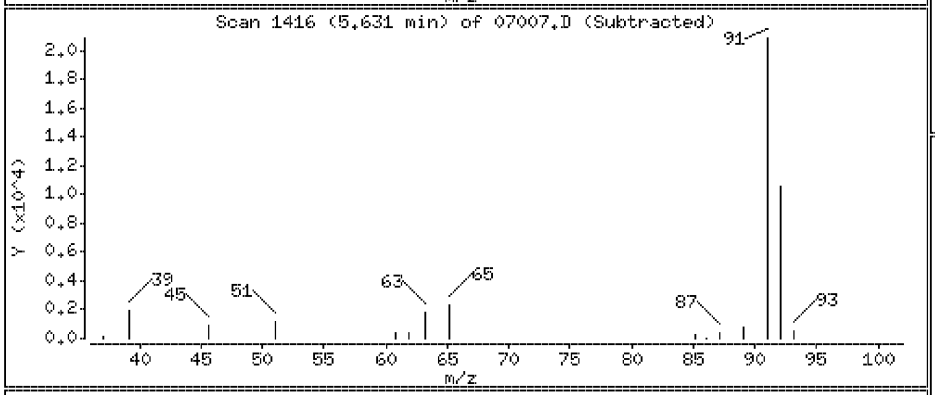
Column diameter: 0.32

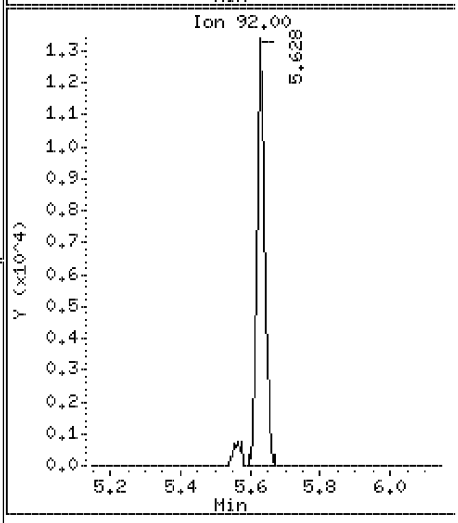
60 Toluene

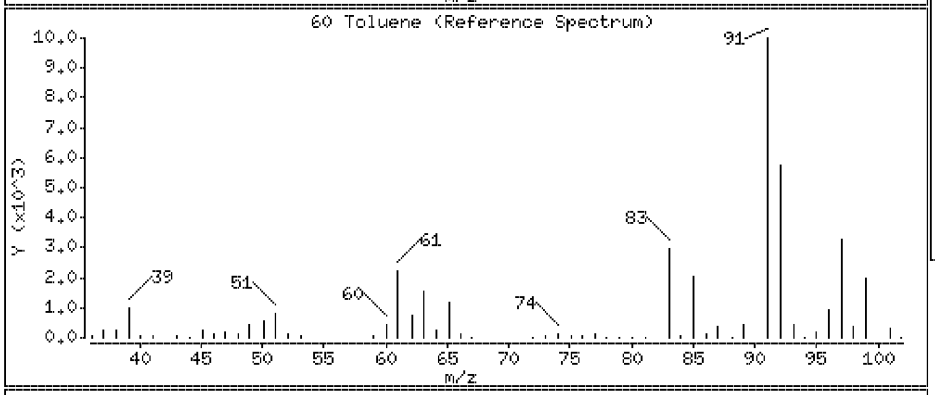
Concentration: 0.589 ppbv

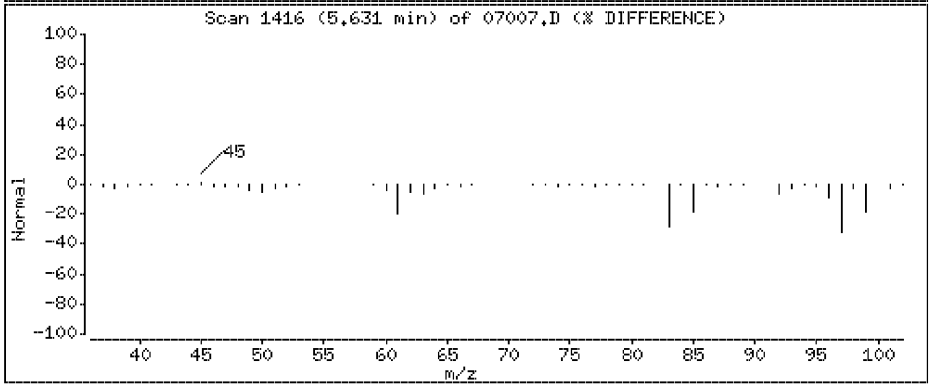












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

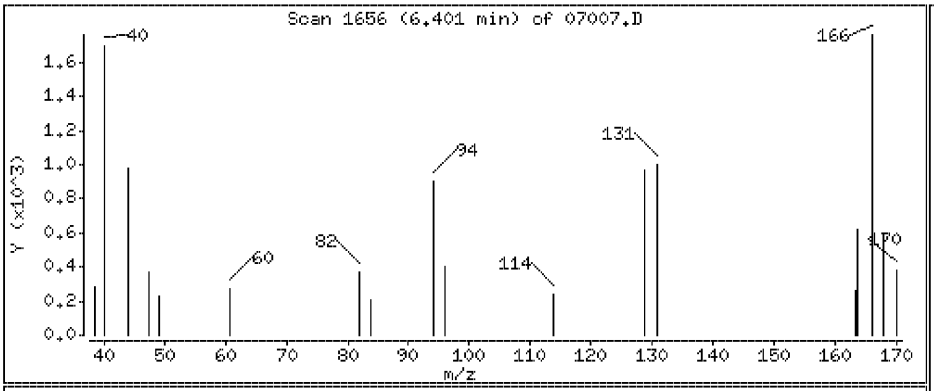
Operator: DR1

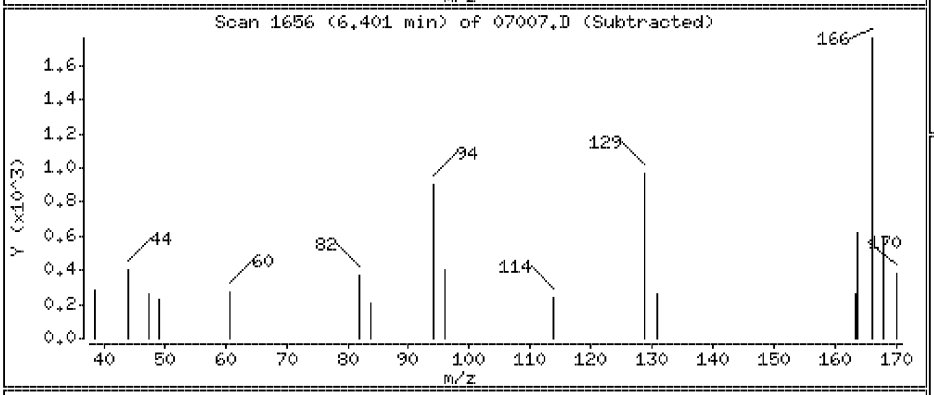
Column phase: J&W DB-5

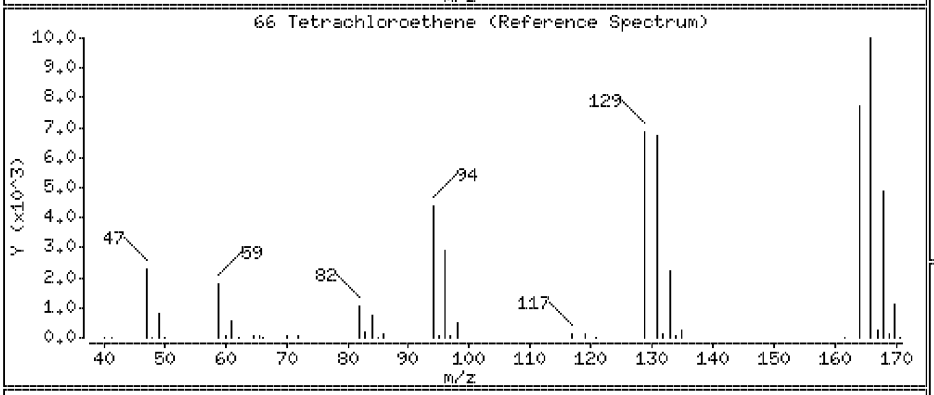
Column diameter: 0.32

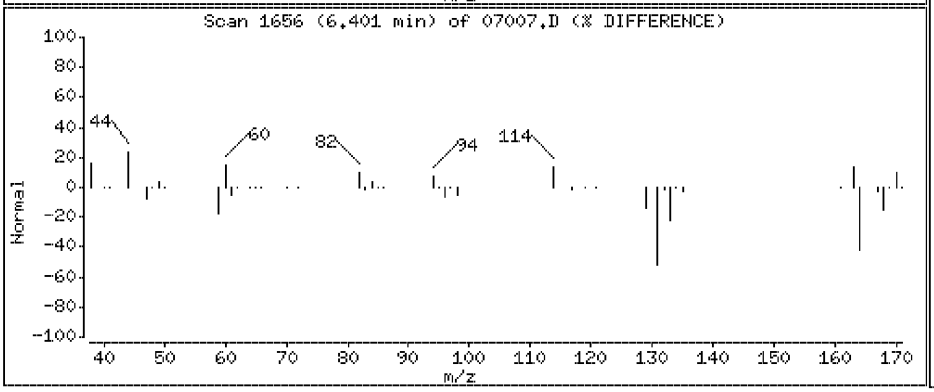
66 Tetrachloroethene

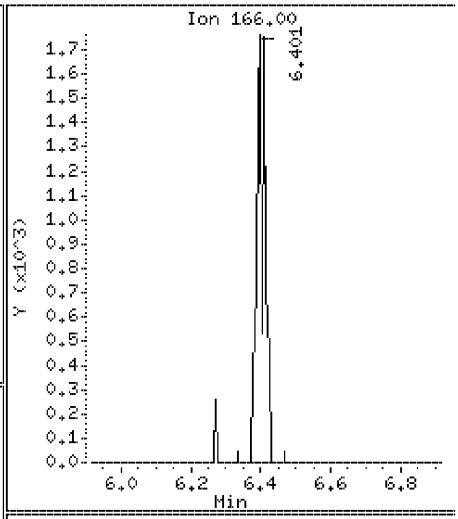
Concentration: 0.0776 ppbv

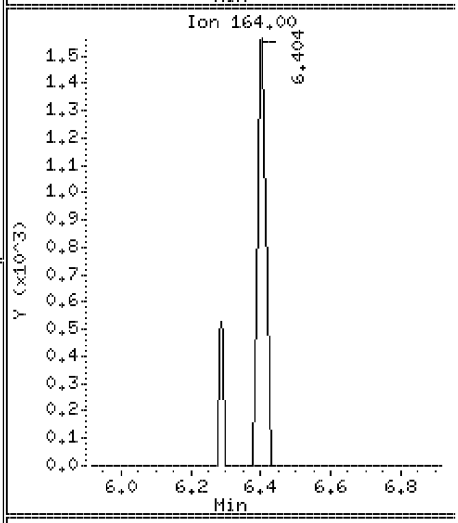


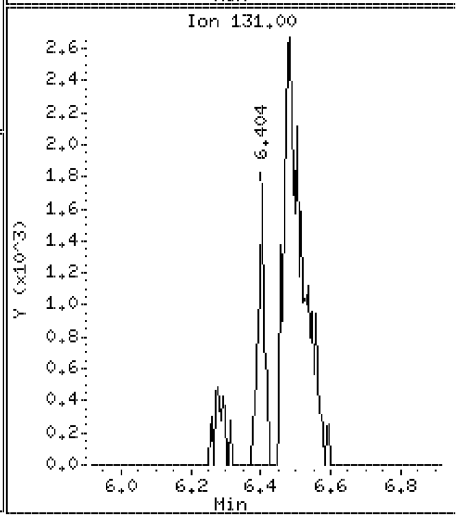












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

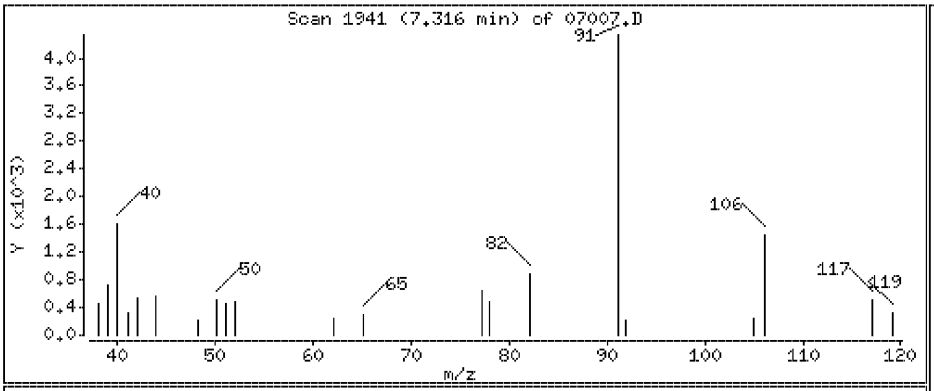
Operator: DR1

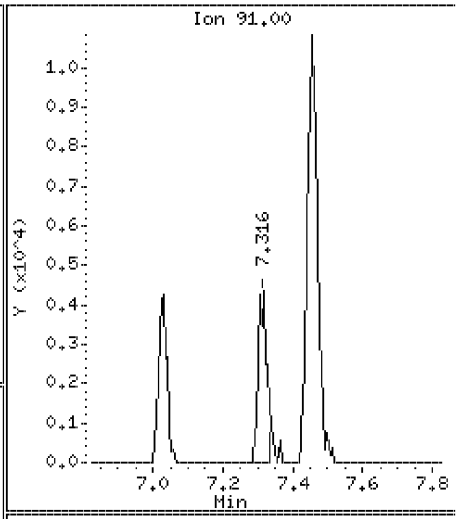
Column phase: J&W DB-5

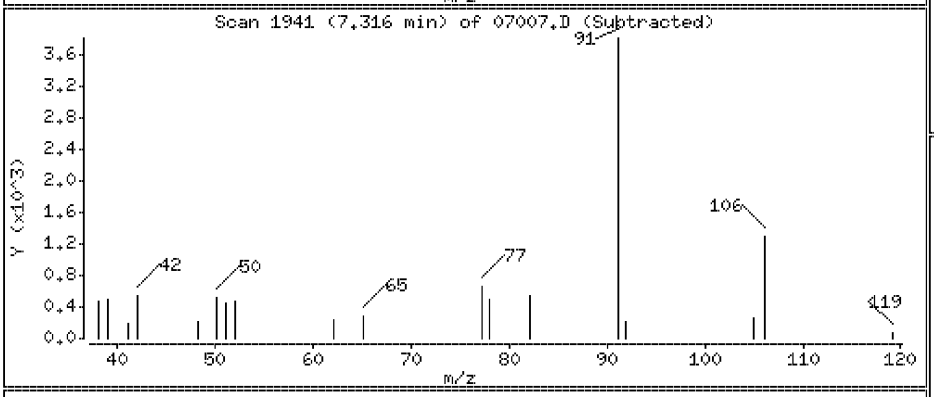
Column diameter: 0.32

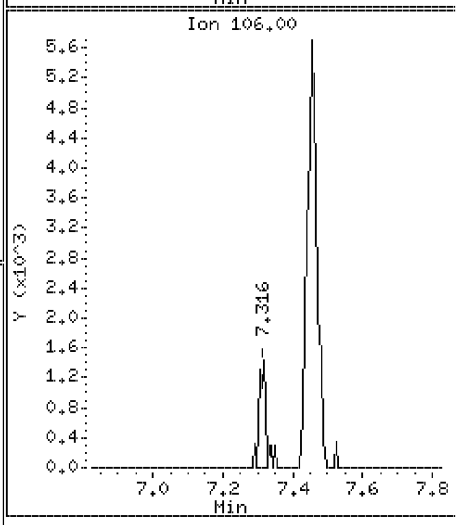
69 Ethyl Benzene

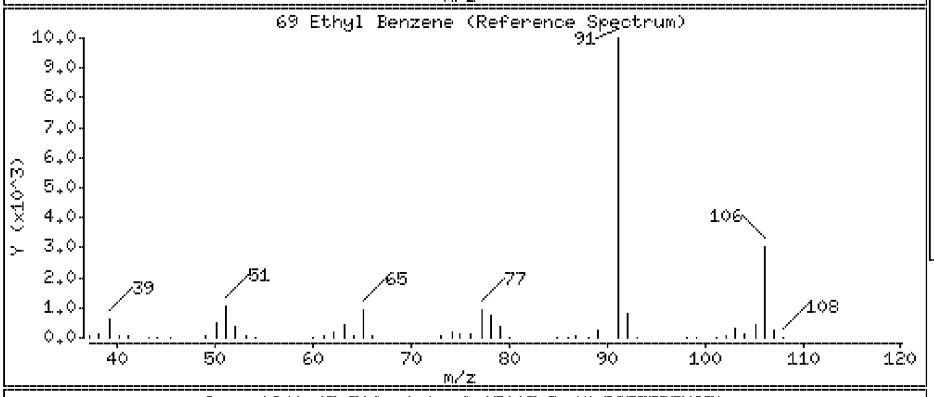
Concentration: 0.104 ppbv

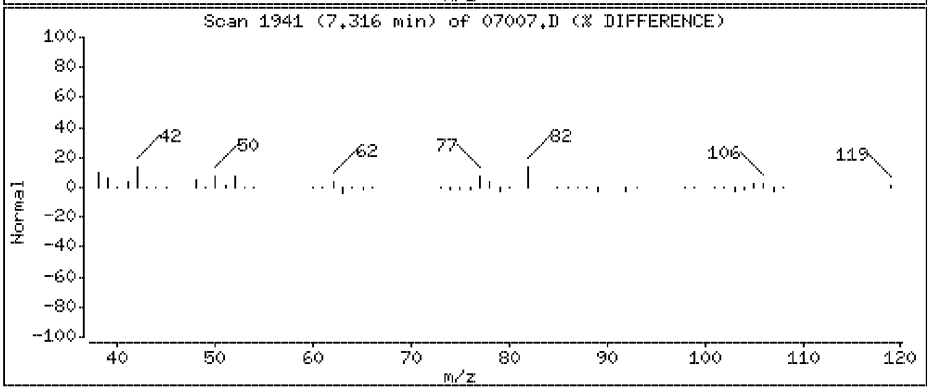












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

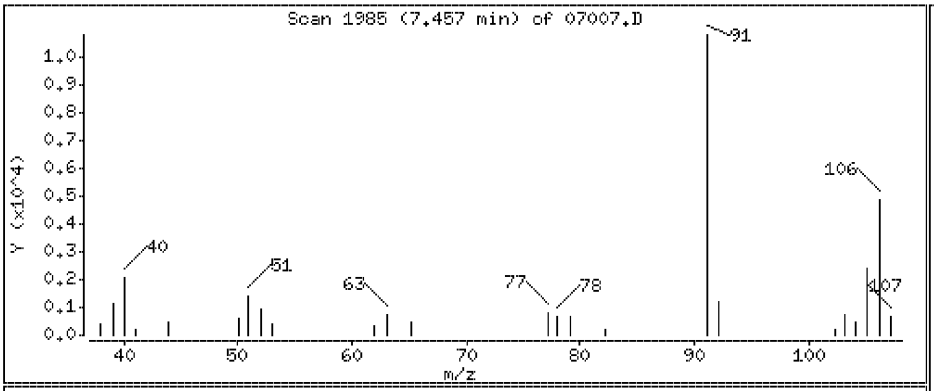
Operator: DR1

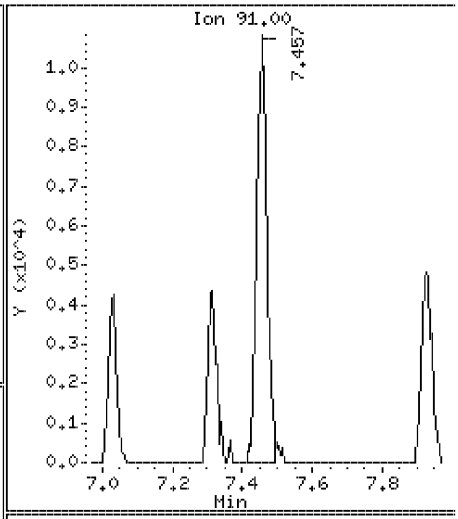
Column phase: J&W DB-5

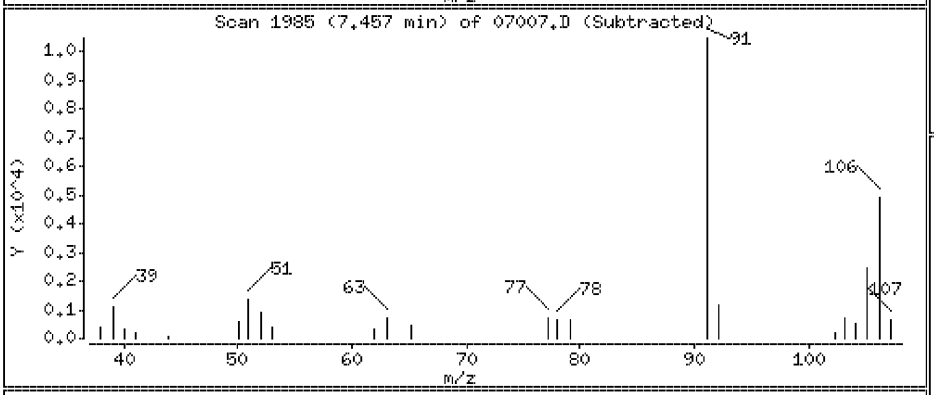
Column diameter: 0.32

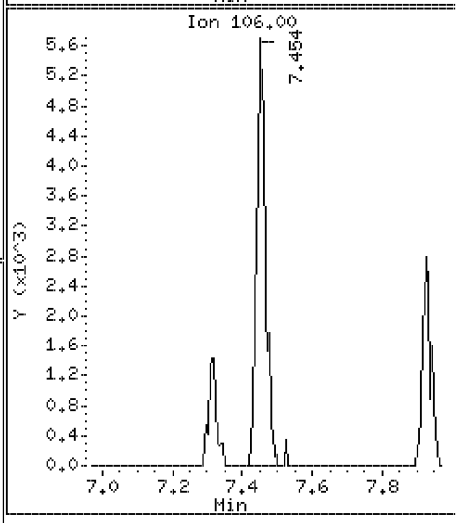
70 m&p-Xylene

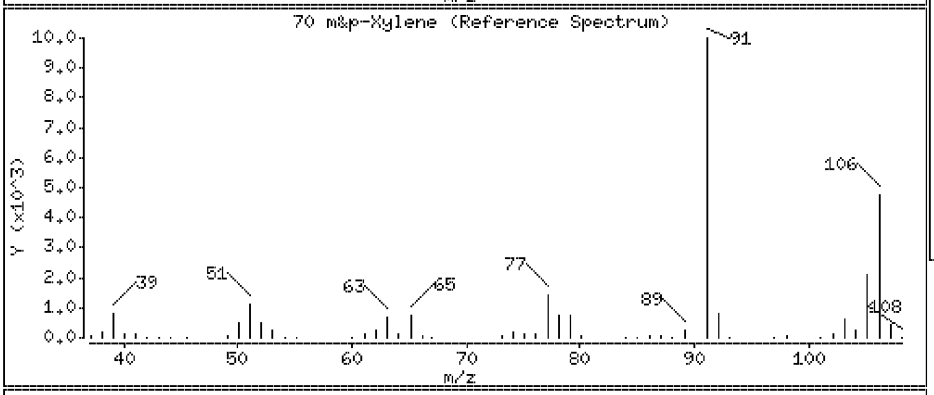
Concentration: 0.171 ppbv

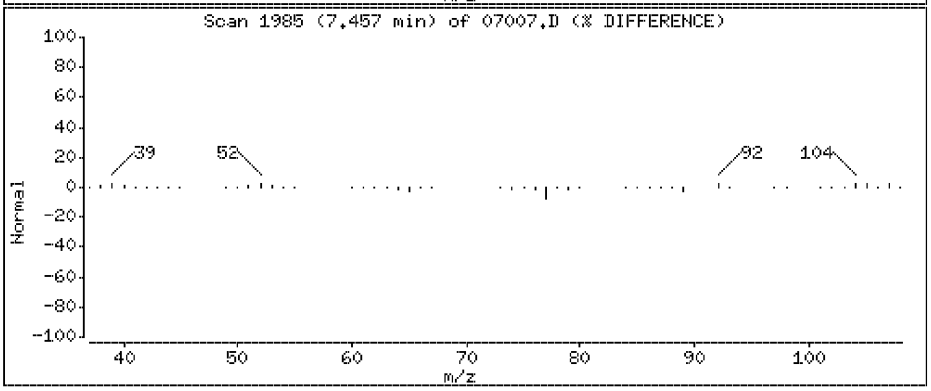












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

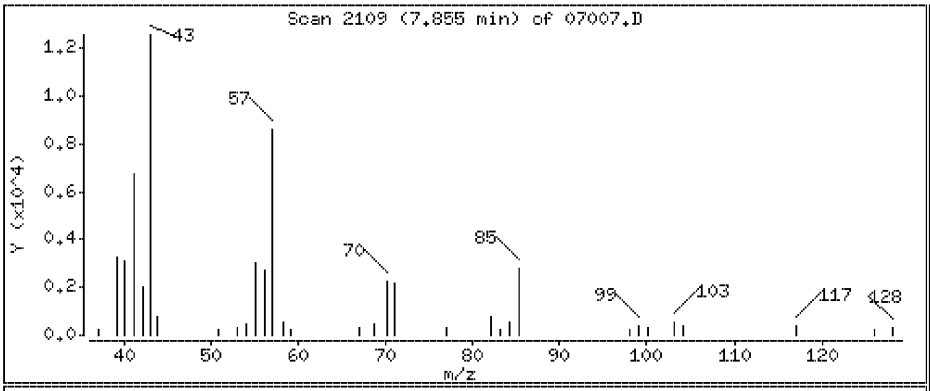
Operator: DR1

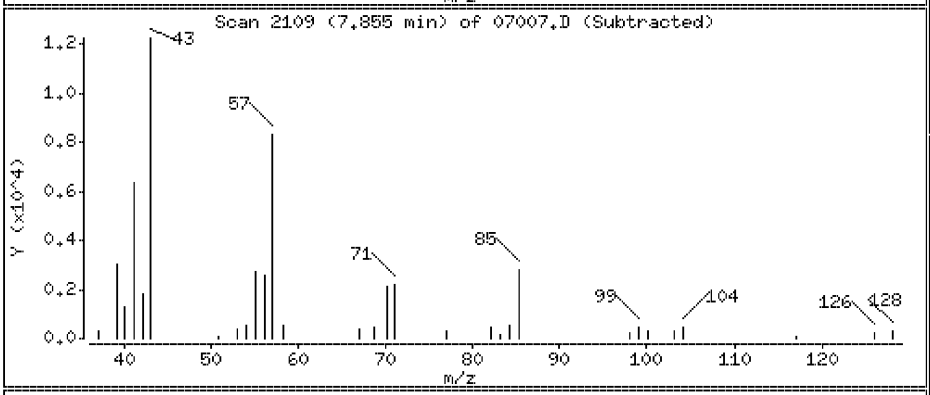
Column phase: J&W DB-5

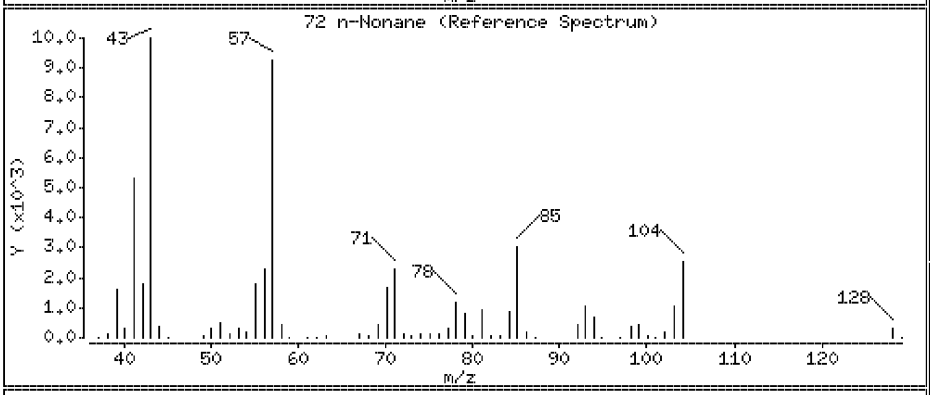
Column diameter: 0.32

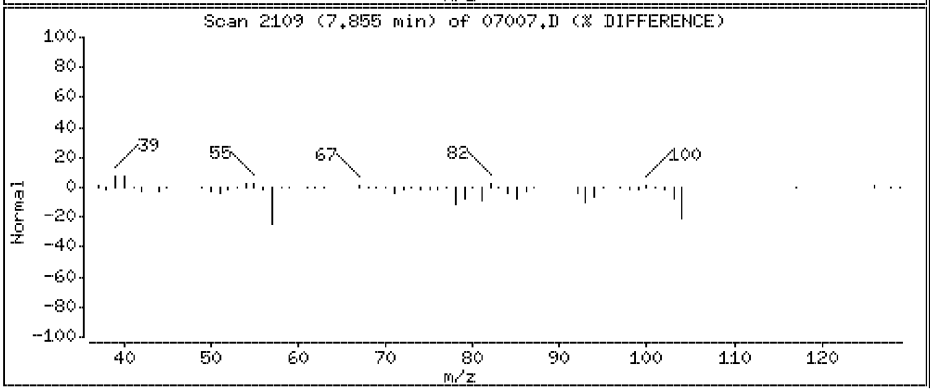
72 n-Nonane

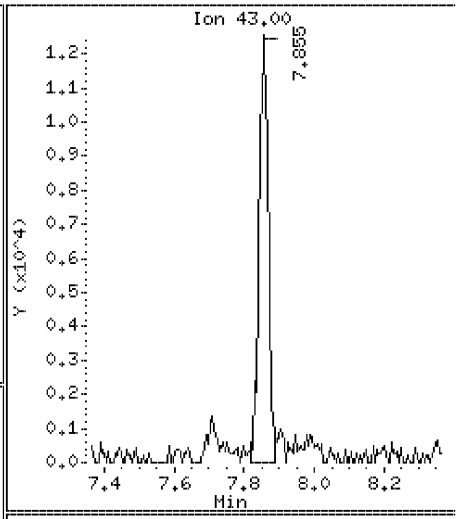
Concentration: 0.631 ppbv

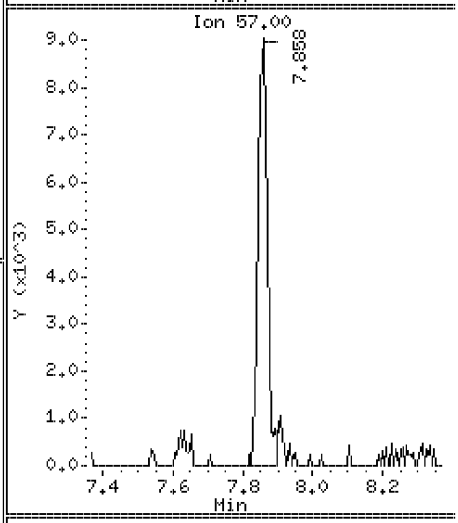


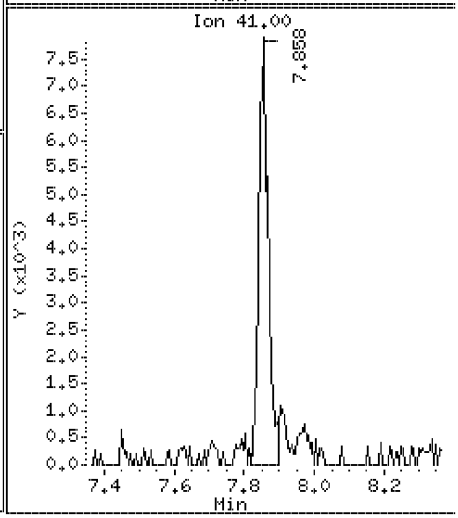












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

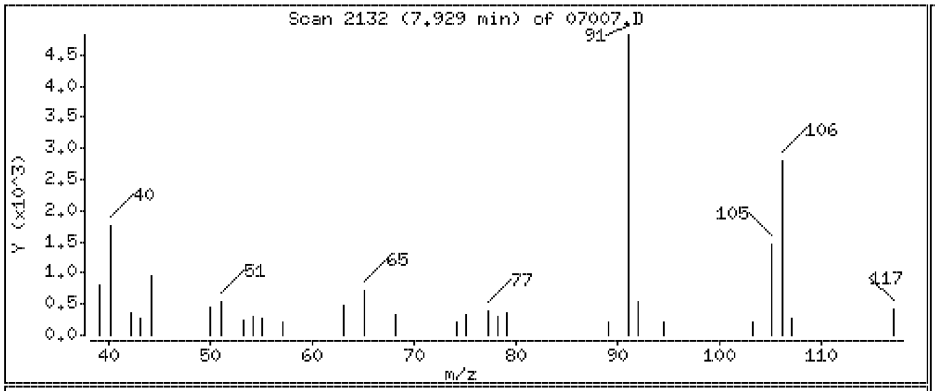
Operator: DR1

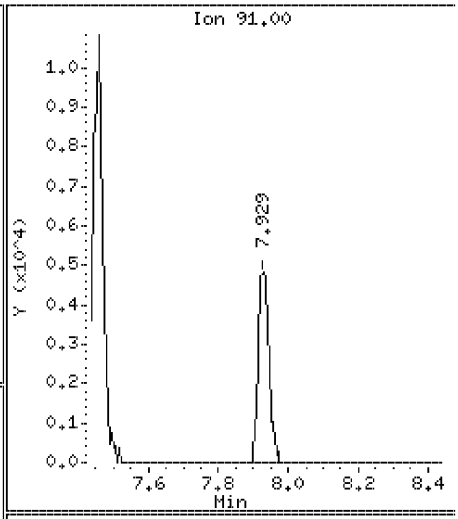
Column phase: J&W DB-5

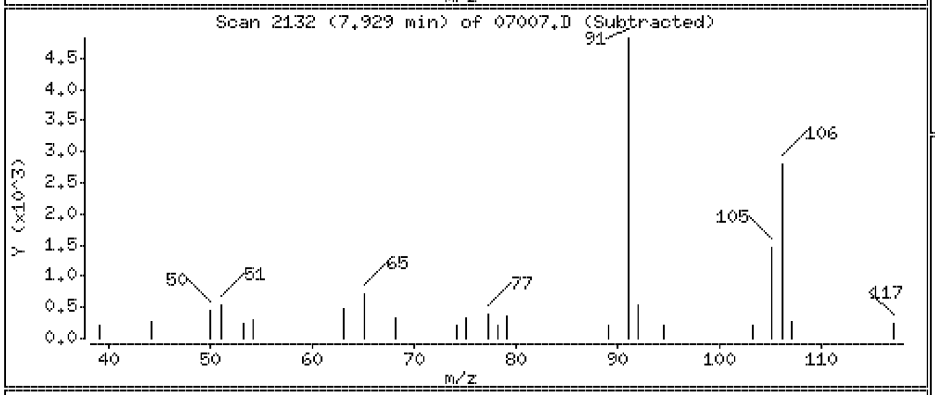
Column diameter: 0.32

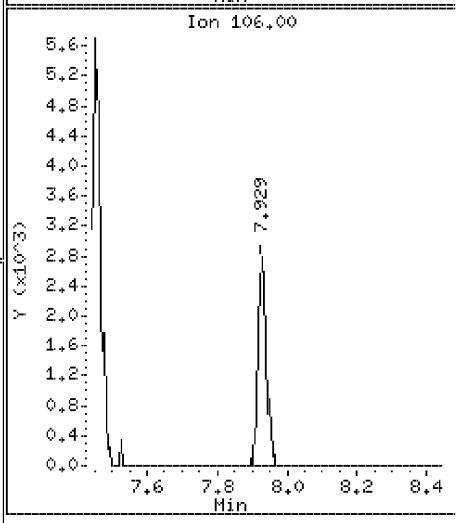
74 o-Xylene

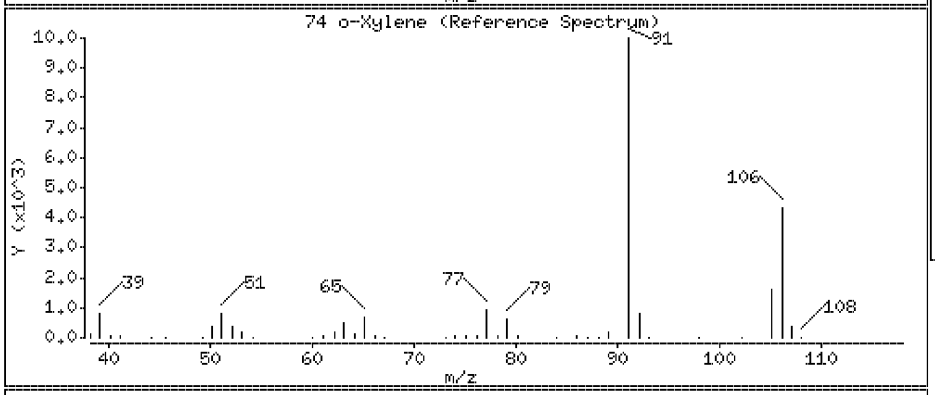
Concentration: 0.176 ppbv

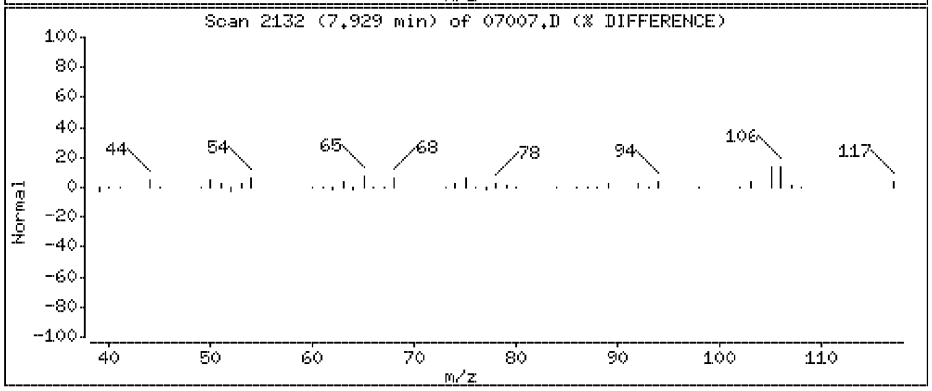












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

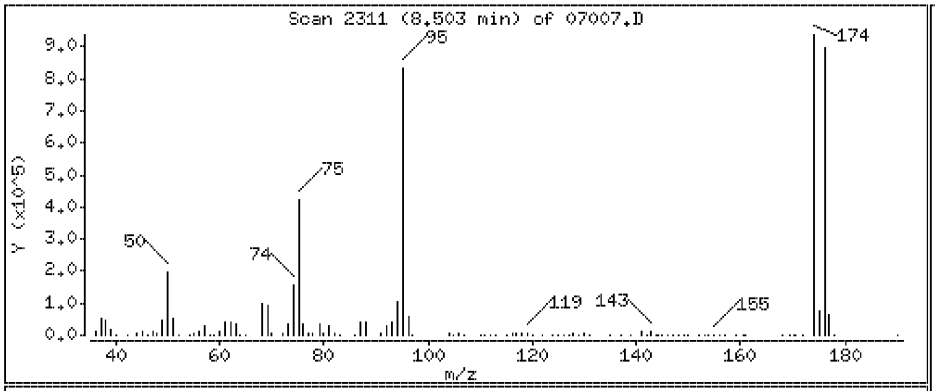
Operator: DR1

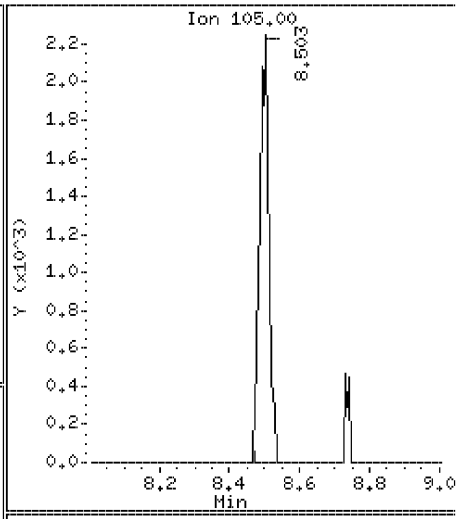
Column phase: J&W DB-5

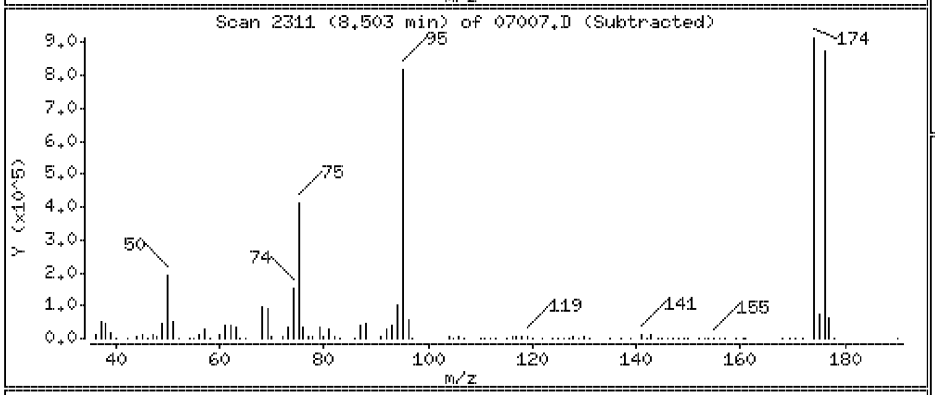
Column diameter: 0.32

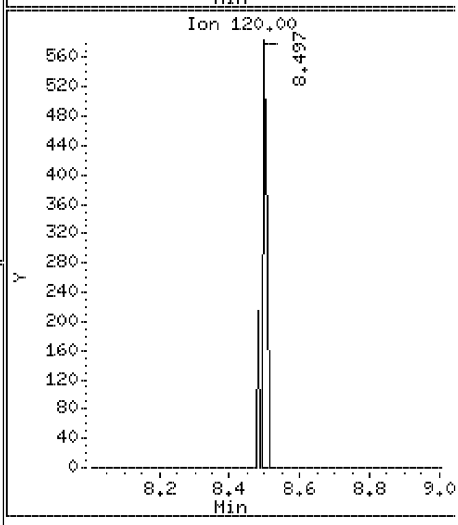
76 Isopropylbenzene

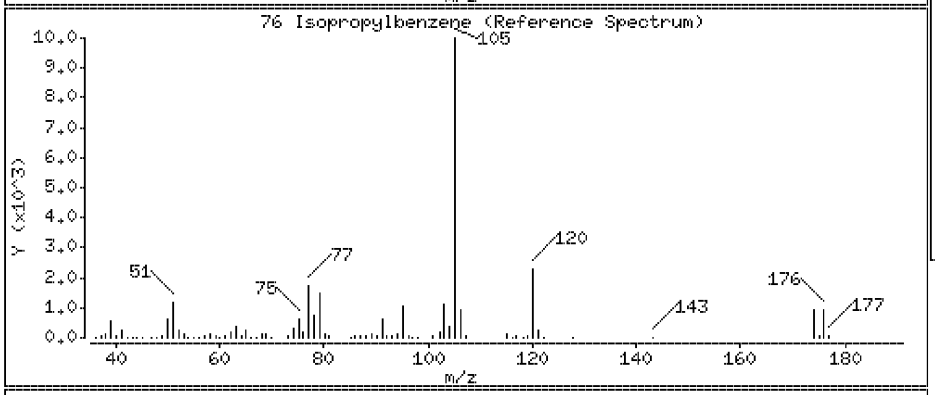
Concentration: 0.0533 ppbv

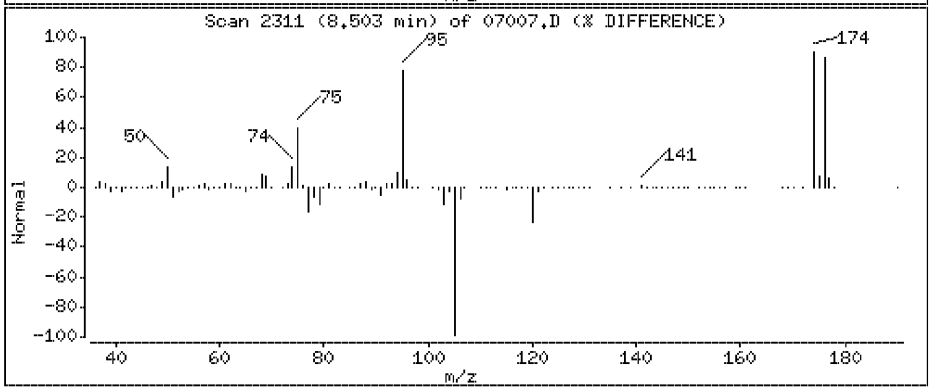












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

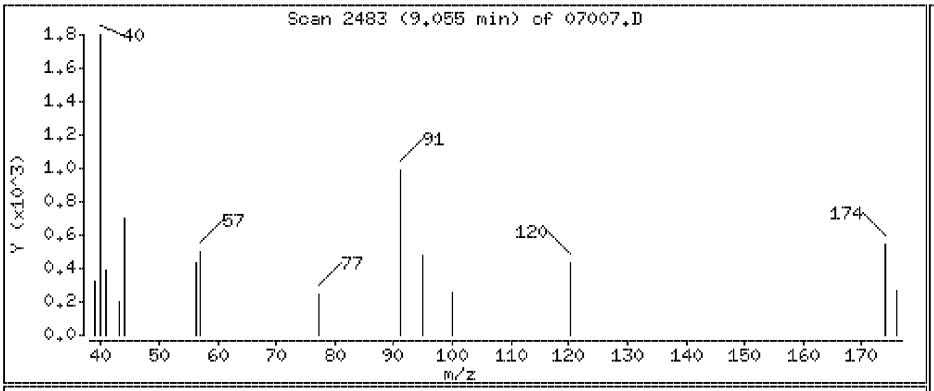
Operator: DR1

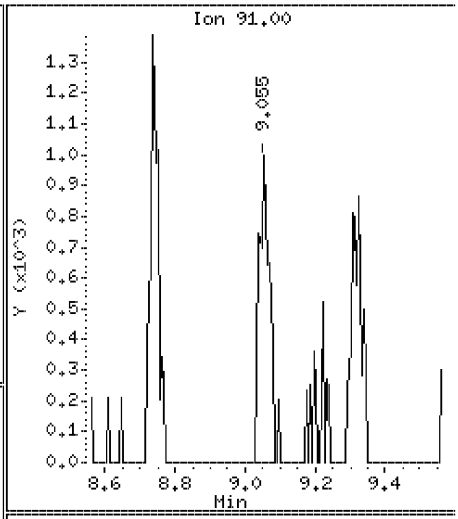
Column phase: J&W DB-5

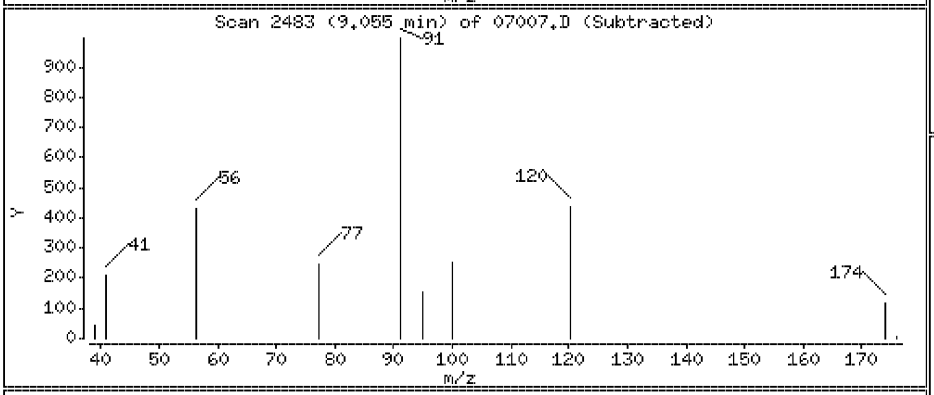
Column diameter: 0.32

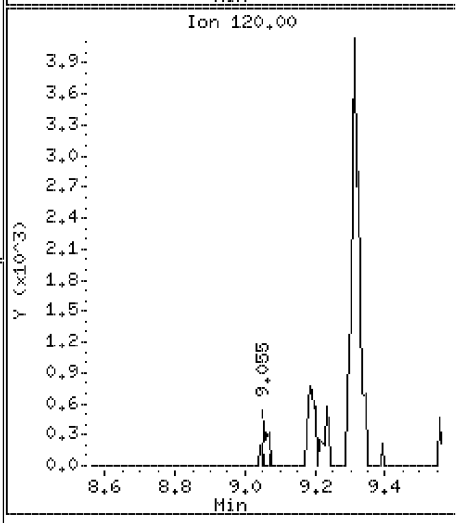
77 N-Propylbenzene

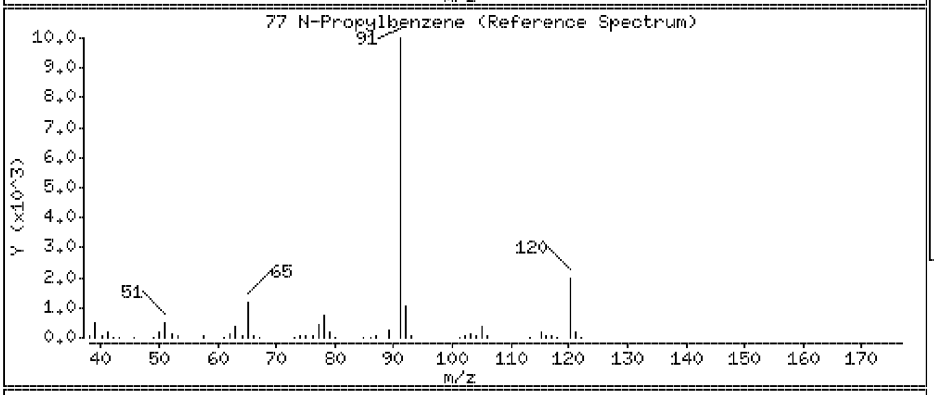
Concentration: 0.0256 ppbv

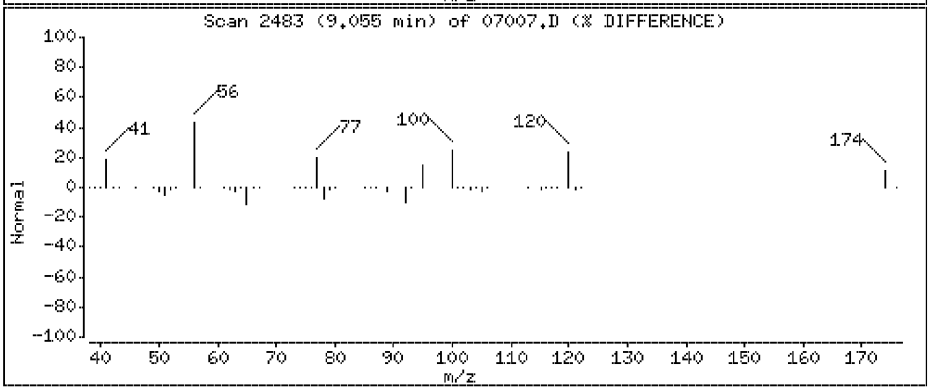












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

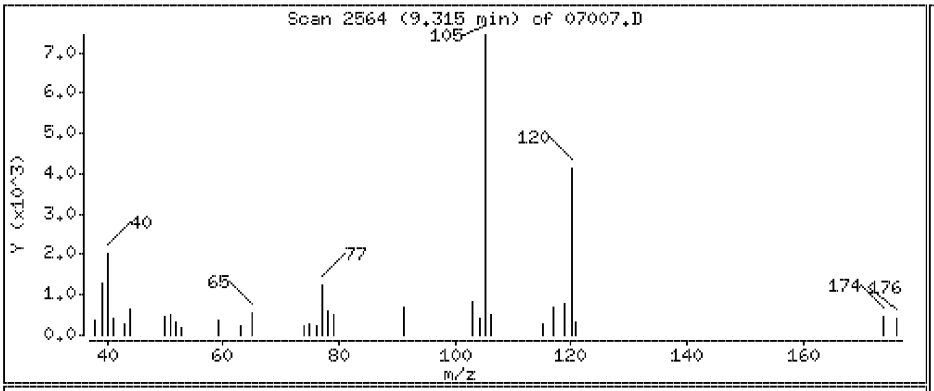
Operator: DR1

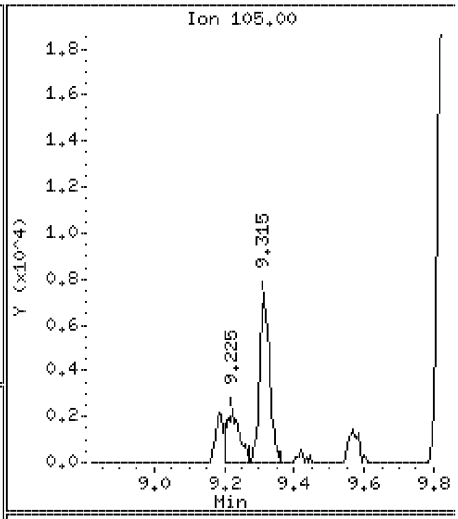
Column phase: J&W DB-5

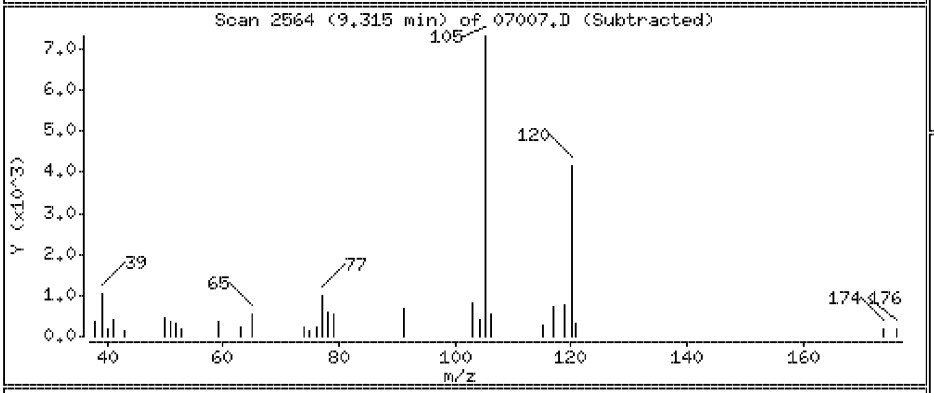
Column diameter: 0.32

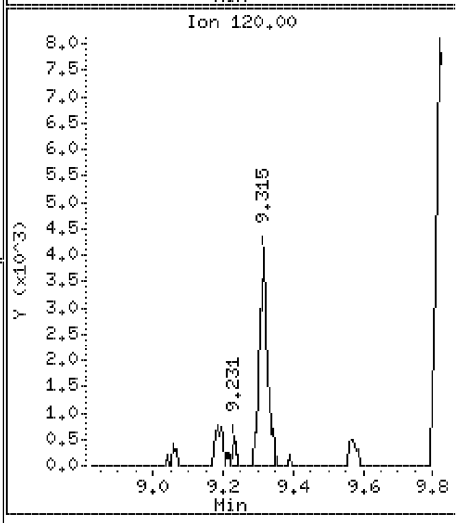
79 1,3,5-Trimethylbenzene

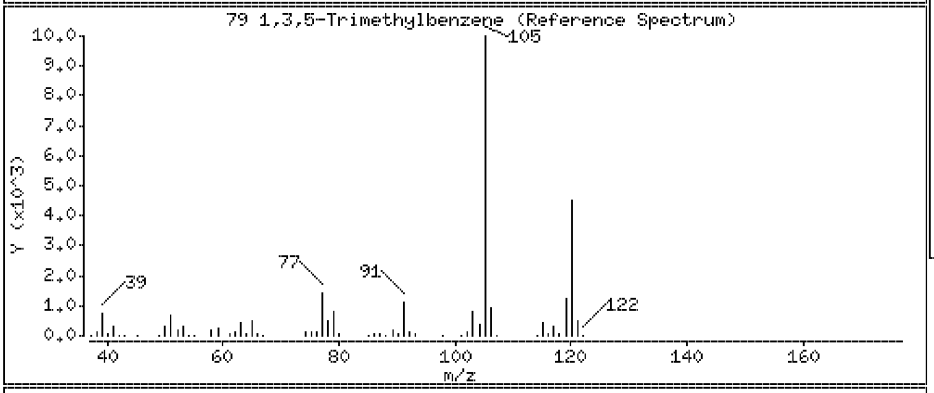
Concentration: 0.199 ppbv

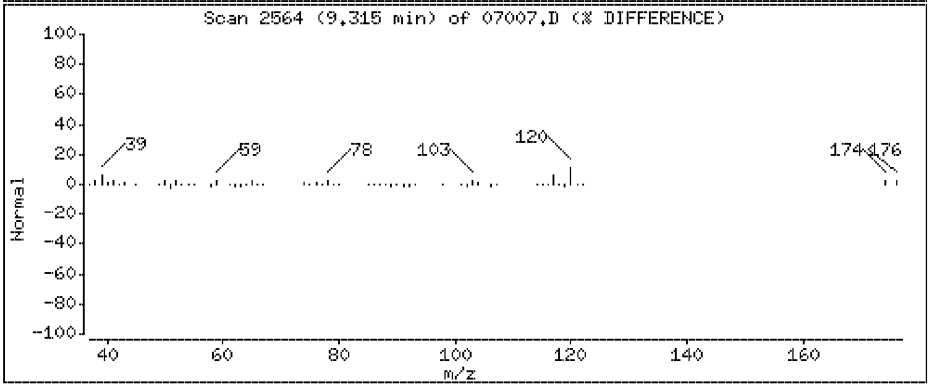












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

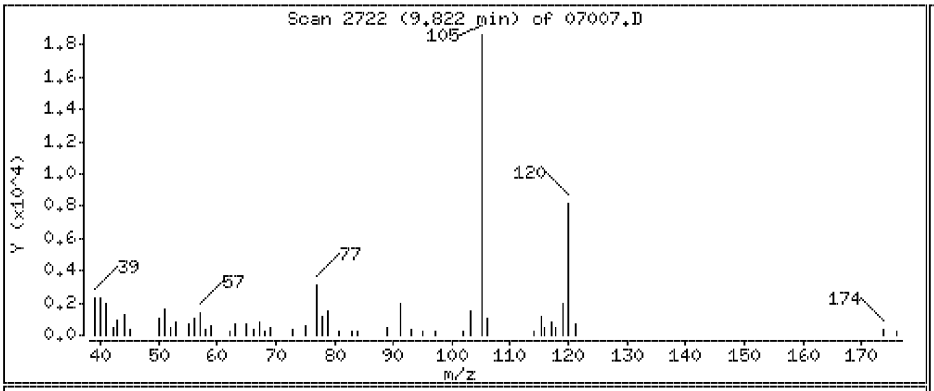
Operator: DR1

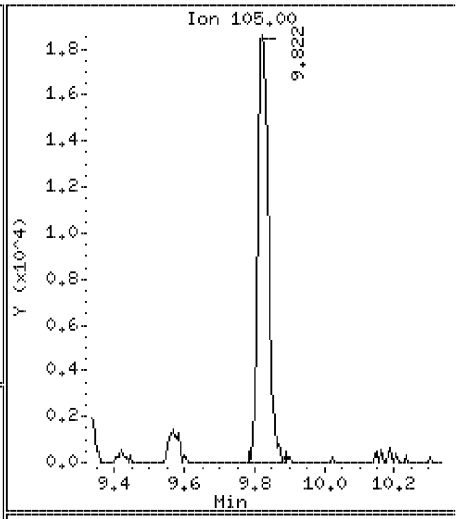
Column phase: J&W DB-5

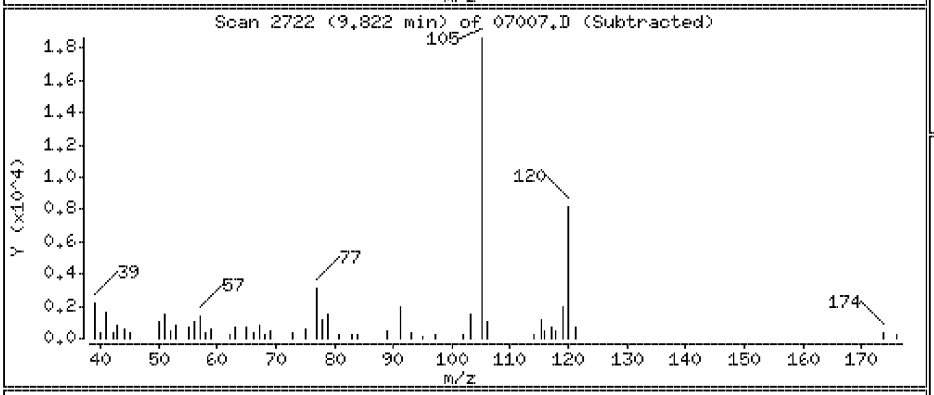
Column diameter: 0.32

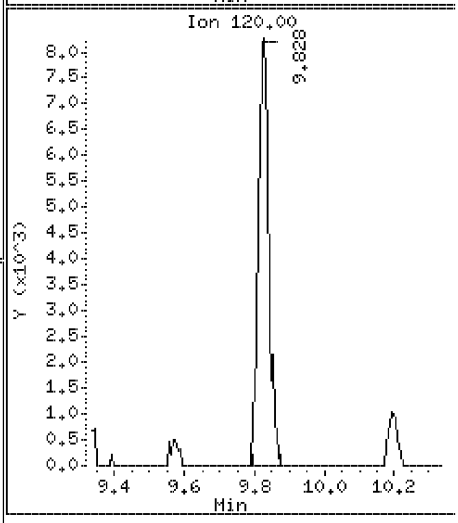
82 1,2,4-Trimethylbenzene

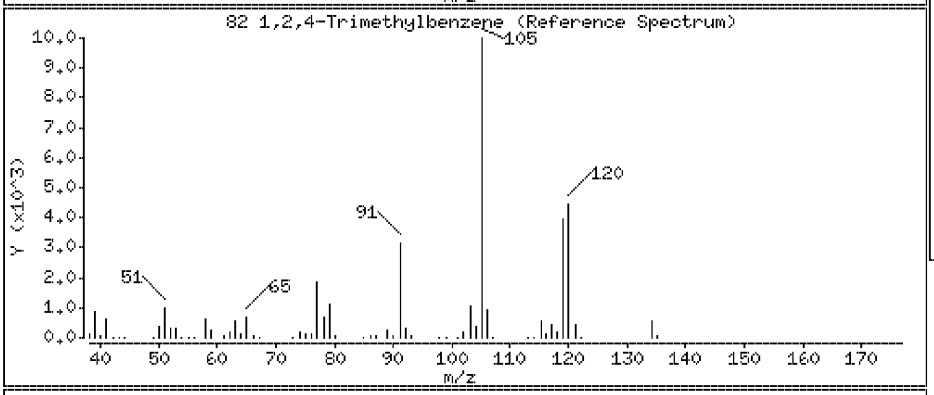
Concentration: 0.496 ppbv

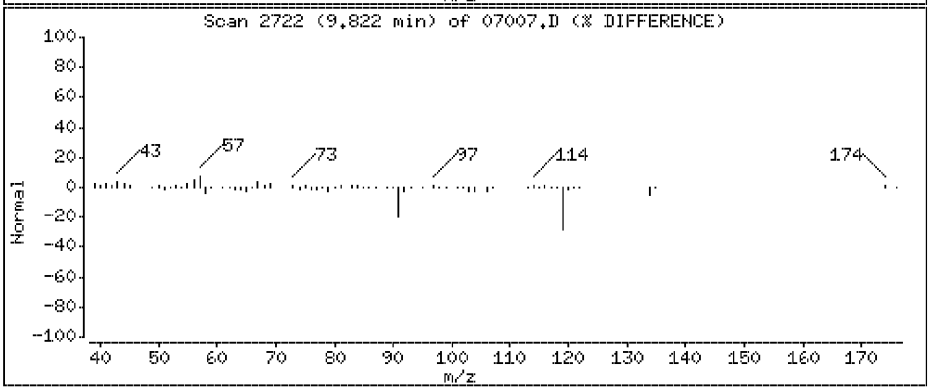












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07007.D

Date : 11-MAR-2017 14:44

Client ID:

Instrument: 10airD.i

Sample Info:

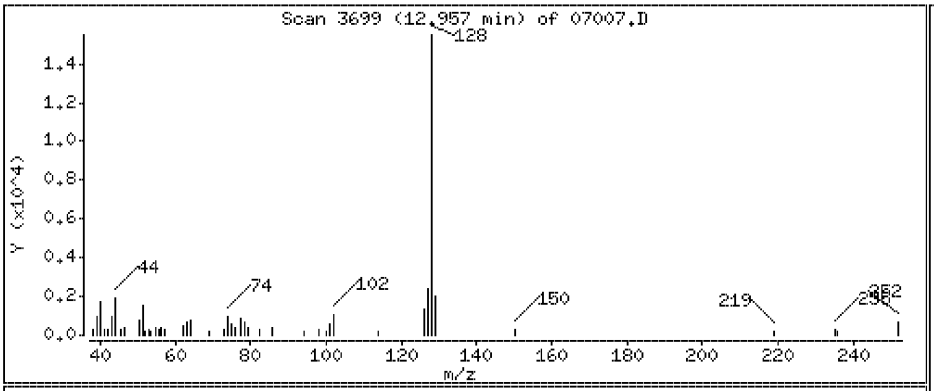
Operator: DR1

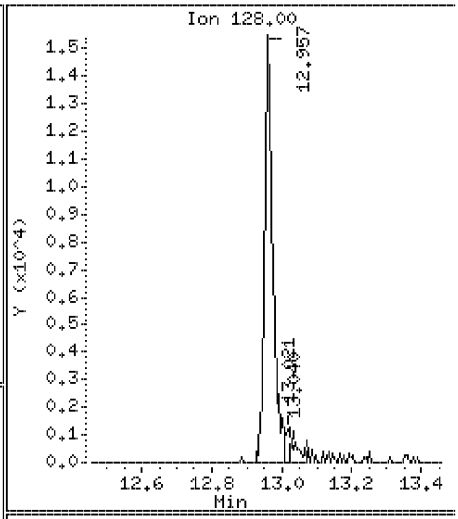
Column phase: J&W DB-5

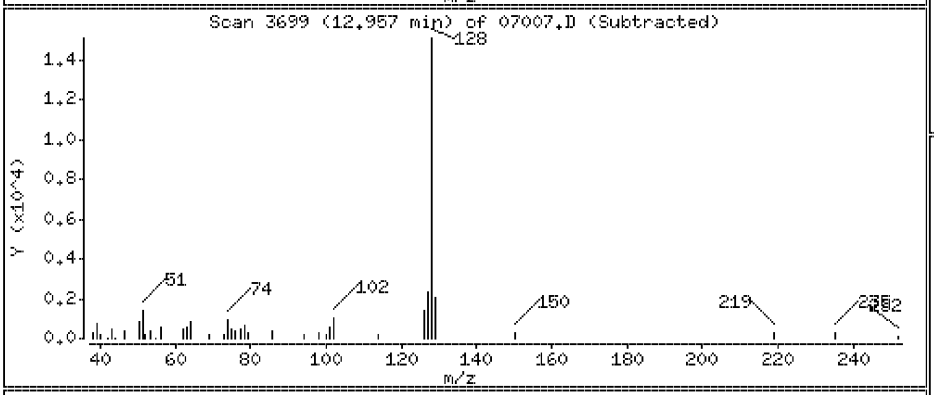
Column diameter: 0.32

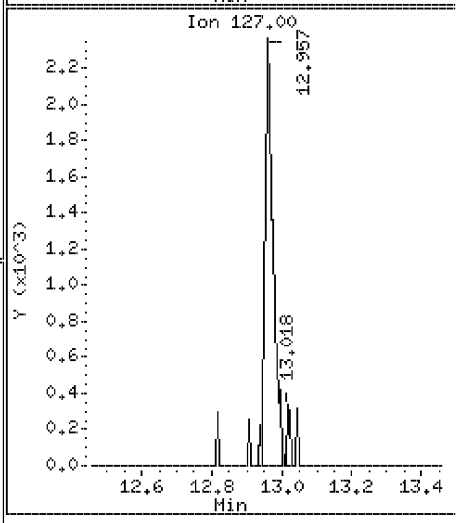
94 Naphthalene

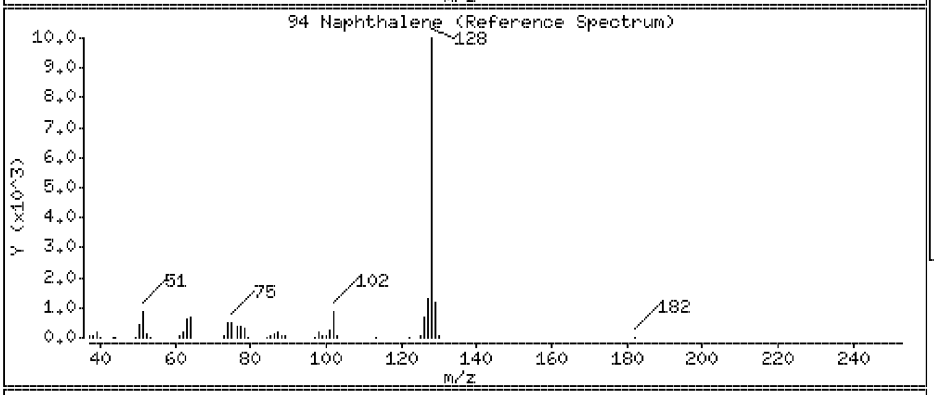
Concentration: 1.58 ppbv

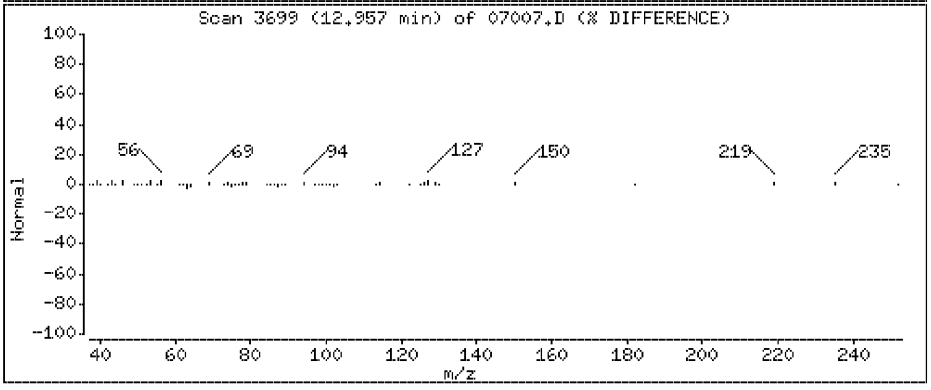






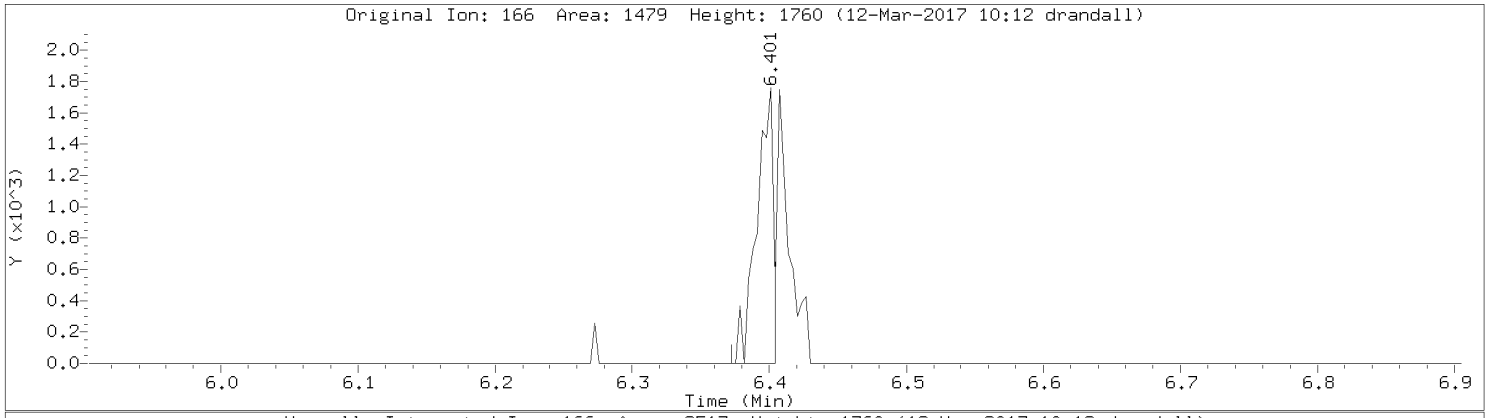


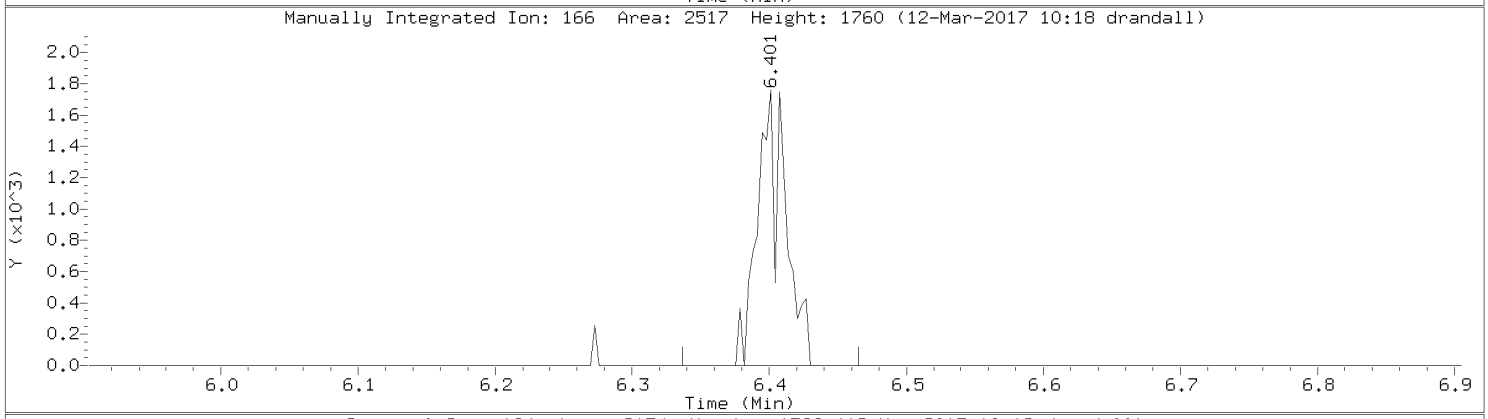


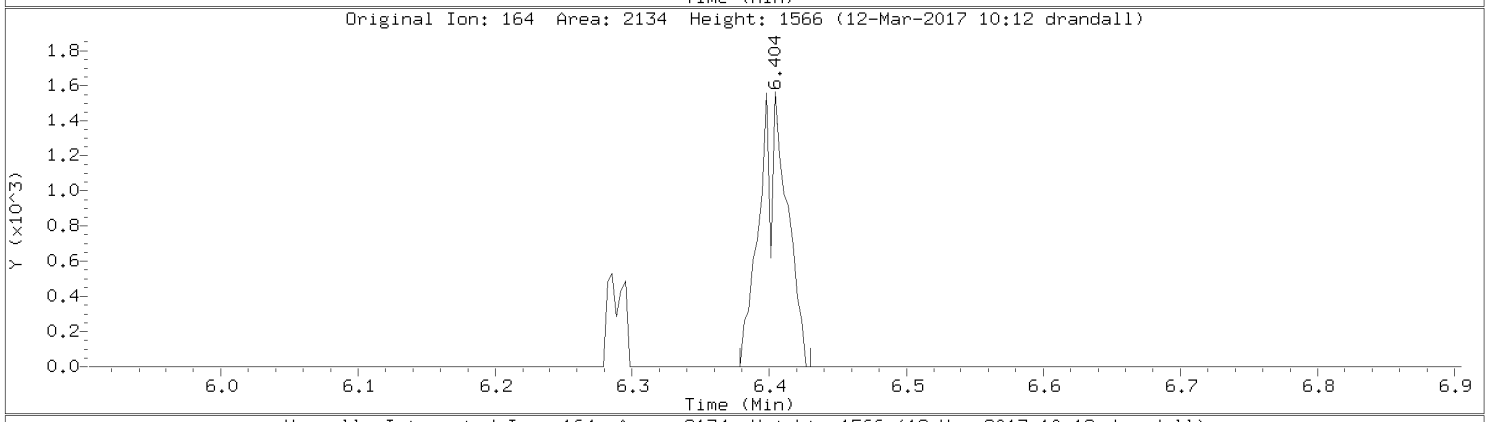


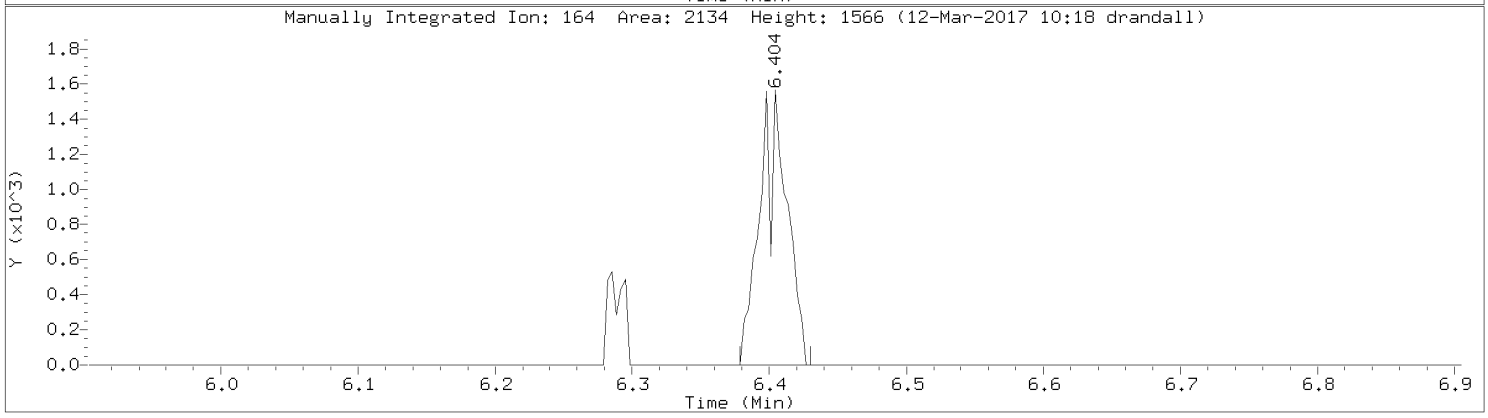
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07007.d
Injection Date: 11-MAR-2017 14:44
Instrument: 10airD.i
Lab Sample ID: 10380372007

Compound: Tetrachloroethene
CAS Number: 127-18-4

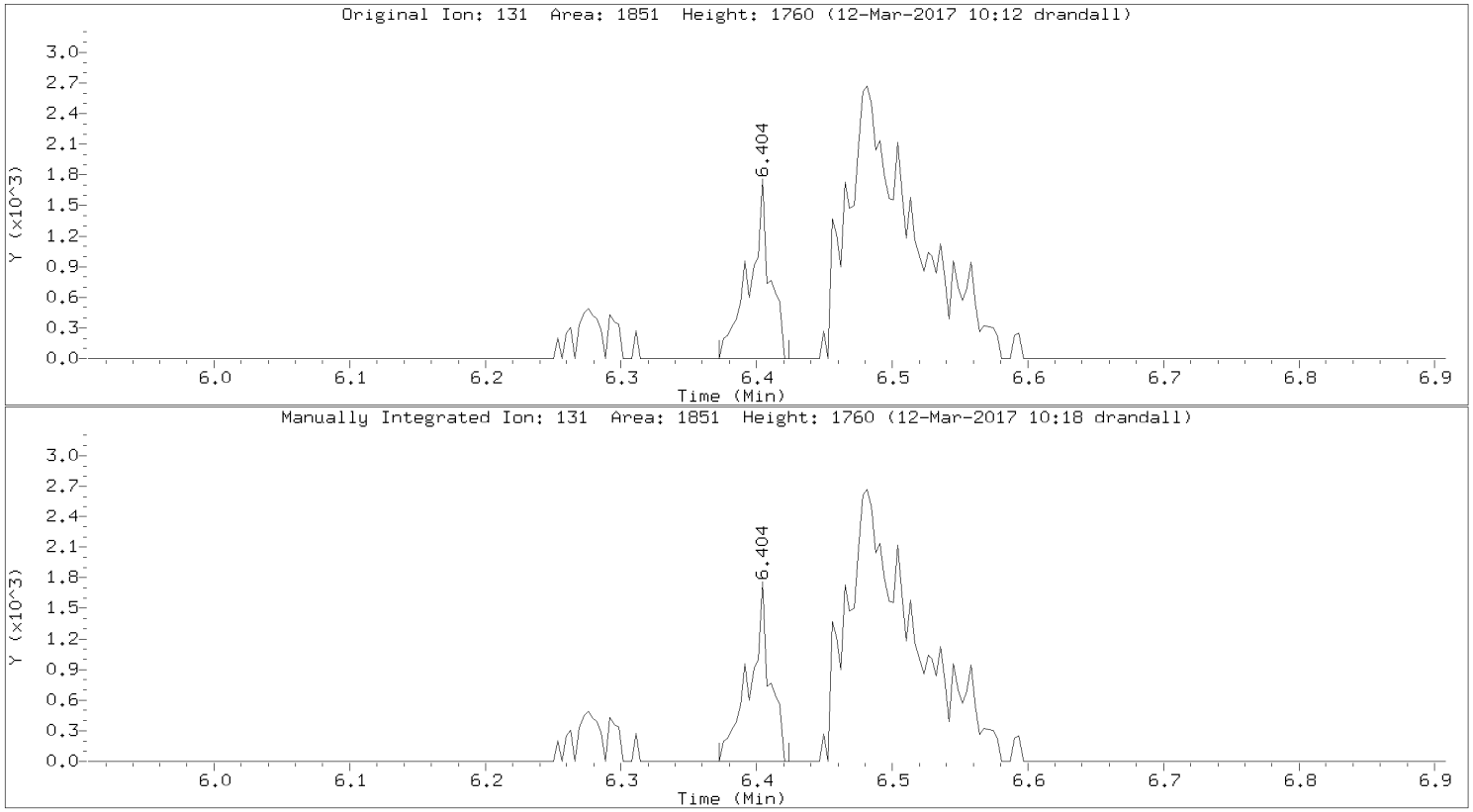








Data File: \\192.168.10.12\chem\10airD.i\031117.b/07007.d
Injection Date: 11-MAR-2017 14:44
Instrument: 10airD.i
Lab Sample ID: 10380372007



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_5_20170226 **Lab ID: 10380372007** Collected: 02/26/17 12:09 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**15.3**	ug/m3	4.6	0.44	1.83		03/10/17 20:42	67-63-0	L1
Styrene	**0.97J**	ug/m3	1.6	0.35	1.83		03/10/17 20:42	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/10/17 20:42	79-34-5	
Tetrachloroethene	**0.51U**	ug/m3	1.3	0.51	1.83		03/10/17 20:42	127-18-4	
Toluene	**9.3**	ug/m3	1.4	0.28	1.83		03/10/17 20:42	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/10/17 20:42	120-82-1	
1,1,1-Trichloroethane	**0.45U**	ug/m3	2.0	0.45	1.83		03/10/17 20:42	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/10/17 20:42	79-00-5	
Trichloroethene	**1.0**	ug/m3	1.0	0.51	1.83		03/10/17 20:42	79-01-6	
Trichlorofluoromethane	**3.7**	ug/m3	2.1	0.24	1.83		03/10/17 20:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.55U**	ug/m3	2.9	0.55	1.83		03/10/17 20:42	76-13-1	
1,2,4-Trimethylbenzene	**1.7J**	ug/m3	1.8	0.23	1.83		03/10/17 20:42	95-63-6	
1,3,5-Trimethylbenzene	**0.69J**	ug/m3	1.8	0.33	1.83		03/10/17 20:42	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/10/17 20:42	75-01-4	
m&p-Xylene	**2.6J**	ug/m3	3.2	1.4	1.83		03/10/17 20:42	179601-23-1	
o-Xylene	**1.4J**	ug/m3	1.6	0.64	1.83		03/10/17 20:42	95-47-6	

Sample: VP-103_10_20170226 **Lab ID: 10380372008** Collected: 02/26/17 12:10 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.9**	ug/m3	10.6	1.5	1.75		03/10/17 21:10	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/10/17 21:10	107-05-1	
Benzene	**0.29J**	ug/m3	0.57	0.21	1.75		03/10/17 21:10	71-43-2	
Bromodichloromethane	**0.34U**	ug/m3	2.4	0.34	1.75		03/10/17 21:10	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/10/17 21:10	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/10/17 21:10	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/10/17 21:10	106-99-0	
2-Butanone (MEK)	**4.2J**	ug/m3	5.2	0.40	1.75		03/10/17 21:10	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/10/17 21:10	75-15-0	
Carbon tetrachloride	**0.57J**	ug/m3	1.1	0.34	1.75		03/10/17 21:10	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/10/17 21:10	108-90-7	
Chlorodifluoromethane	**3.1**	ug/m3	1.3	0.48	1.75		03/10/17 21:10	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/10/17 21:10	75-00-3	
Chloroform	**2.5**	ug/m3	0.87	0.33	1.75		03/10/17 21:10	67-66-3	
Chloromethane	**0.19U**	ug/m3	0.74	0.19	1.75		03/10/17 21:10	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 21:10	76-15-3	
Cyclohexane	**0.55U**	ug/m3	1.2	0.55	1.75		03/10/17 21:10	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/10/17 21:10	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/10/17 21:10	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/10/17 21:10	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/10/17 21:10	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/10/17 21:10	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_10_20170226 **Lab ID: 10380372008** Collected: 02/26/17 12:10 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/10/17 21:10	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	0.84	1.75		03/10/17 21:10	75-71-8	
1,1-Dichloroethane	**6.4**	ug/m3	1.4	0.27	1.75		03/10/17 21:10	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/10/17 21:10	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 21:10	75-35-4	
cis-1,2-Dichloroethene	**0.43U**	ug/m3	1.4	0.43	1.75		03/10/17 21:10	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/10/17 21:10	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/10/17 21:10	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/10/17 21:10	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/10/17 21:10	10061-02-6	
Dichlorotetrafluoroethane	**1.4J**	ug/m3	2.5	0.54	1.75		03/10/17 21:10	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 21:10	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/10/17 21:10	123-91-1	
Ethylbenzene	**0.74U**	ug/m3	1.5	0.74	1.75		03/10/17 21:10	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/10/17 21:10	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/10/17 21:10	87-68-3	
n-Hexane	**2.1**	ug/m3	1.3	0.62	1.75		03/10/17 21:10	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/10/17 21:10	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/10/17 21:10	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/10/17 21:10	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 21:10	108-87-2	
Methylene Chloride	**11.8**	ug/m3	6.2	0.95	1.75		03/10/17 21:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.88J**	ug/m3	7.3	0.38	1.75		03/10/17 21:10	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/10/17 21:10	1634-04-4	
2-Propanol	**5.4**	ug/m3	4.4	0.42	1.75		03/10/17 21:10	67-63-0	L1
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/10/17 21:10	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/10/17 21:10	79-34-5	
Tetrachloroethene	**1.8**	ug/m3	1.2	0.49	1.75		03/10/17 21:10	127-18-4	
Toluene	**2.8**	ug/m3	1.3	0.27	1.75		03/10/17 21:10	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/10/17 21:10	120-82-1	
1,1,1-Trichloroethane	**0.43U**	ug/m3	1.9	0.43	1.75		03/10/17 21:10	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/10/17 21:10	79-00-5	
Trichloroethene	**3.4**	ug/m3	0.96	0.48	1.75		03/10/17 21:10	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.0	0.23	1.75		03/10/17 21:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.72J**	ug/m3	2.8	0.53	1.75		03/10/17 21:10	76-13-1	
1,2,4-Trimethylbenzene	**0.79J**	ug/m3	1.7	0.22	1.75		03/10/17 21:10	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/10/17 21:10	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/10/17 21:10	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.1	1.4	1.75		03/10/17 21:10	179601-23-1	
o-Xylene	**0.61U**	ug/m3	1.5	0.61	1.75		03/10/17 21:10	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.d
Report Date: 13-Mar-2017 15:53

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06914.d
Lab Smp Id: 10380372008
Inj Date : 10-MAR-2017 21:10
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 14
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.114	2.114	(0.498)	561161	34.9237	61.1(AQ)	
3	Chlorodifluoromethane	67	2.127	2.123	(0.501)	3904	0.49006	0.858(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.149	(0.507)	24720	0.34075	0.596	
6	Dichlorotetrafluoroethane	85	2.200	2.216	(0.519)	8081	0.10981	0.192(Q)	
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.505	2.499	(0.591)	14953	2.95163	5.17	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	2.540	2.544	(0.599)	14569	0.46085	0.806	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.598	2.605	(0.613)	12611	0.16617	0.291	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.650	2.637	(0.625)	143333	2.80905	4.92	
19	Isopropyl Alcohol	45	2.678	2.672	(0.632)	31999	1.24487	2.18(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	2.829	2.829	(0.667)	3088	0.08830	0.155	
22	Freon 113	101	2.816	2.823	(0.664)	3140	0.05277	0.0924	

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.d
Report Date: 13-Mar-2017 15:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	2.836	2.832	(0.669)	3442	0.05478	0.0959(Q)	
	25 Methylene chloride	49	2.861	2.871	(0.675)	75313	1.91632	3.35	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	3.269	3.201	(0.771)	43454	0.88987	1.56(Q)	
$	32 Hexane-d14(S)	66	3.266	3.269	(0.770)	1667093	9.51655	9.52	
	33 Methyl Ethyl Ketone	72	3.343	3.336	(0.788)	8468	0.80714	1.41(QM)	
	34 n-Hexane	57	3.343	3.349	(0.788)	12601	0.33220	0.581(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	3.484	3.477	(0.821)	19716	0.32486	0.569(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	3.551	3.567	(0.837)	17413	0.28322	0.496	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.097	4.106	(0.966)	3758	0.05175	0.0906	
	45 Carbon tetrachloride	117	4.103	4.119	(0.967)	2980	0.05119	0.0896	
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	3299747	10.0000		
	48 2,2,4-Trimethylpentane	57	4.360	4.373	(1.028)	8500	158.689	278(A)	
	49 Heptane	43	4.472	4.491	(1.054)	3198	0.05642	0.0987(QM)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	4.562	4.572	(1.076)	14055	0.35262	0.617	
	52 Methyl methacrylate	69	4.665	4.652	(1.100)	358	0.01359	0.0238(aQ)	
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	5.098	5.091	(1.202)	14914	0.12060	0.211	
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.566	(1.311)	3189222	9.64557	9.65	
	60 Toluene	91	5.627	5.634	(1.327)	40979	0.42009	0.735	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	5.910	5.881	(0.841)	1456	0.02447	0.0428(a)	
	63 n-Octane	43	6.057	6.054	(0.862)	5469	0.08841	0.155(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.404	6.407	(0.911)	8195	0.14870	0.260	
*	67 Chlorobenzene - d5	117	7.027	7.033	(1.000)	2492859	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.315	7.318	(1.041)	5287	0.04834	0.0846(a)	
	70 m&p-Xylene	91	7.457	7.460	(1.061)	13156	0.02682	0.0469(a)	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.861	7.861	(1.119)	3331	0.05836	0.102	
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	7.935	7.931	(1.129)	6351	0.07043	0.123	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.d
Report Date: 13-Mar-2017 15:53

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	78	4-Ethyltoluene	105	Compound Not Detected.						(D)
	79	1,3,5-Trimethylbenzene	105	9.314	9.321	(1.326)	6341	0.03299	0.0577(a)	
	80	n-Decane	57	Compound Not Detected.						(D)
	81	Tert-Butyl Benzene	119	Compound Not Detected.						
	82	1,2,4-Trimethylbenzene	105	9.825	9.828	(1.398)	17299	0.09051	0.158	
	83	1,3-Dichlorobenzene	146	Compound Not Detected.						
	84	Sec- Butylbenzene	105	Compound Not Detected.						
$	85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.197	(1.451)	1397251	9.14825	9.15	
	86	Benzyl Chloride	91	Compound Not Detected.						(D)
	87	1,4-Dichlorobenzene	146	Compound Not Detected.						
	88	p-Isopropyltoluene	119	Compound Not Detected.						
	89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
	90	1,2-Dichlorobenzene	146	Compound Not Detected.						
	91	N-Butylbenzene	91	Compound Not Detected.						
	92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
	93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	94	Naphthalene	128	12.969	12.953	(1.846)	3482	0.13329	0.233	
	95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.d
Report Date: 13-Mar-2017 15:53

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06914.d
Lab Smp Id: 10380372008
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 10-MAR-2017
Calibration Time: 14:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

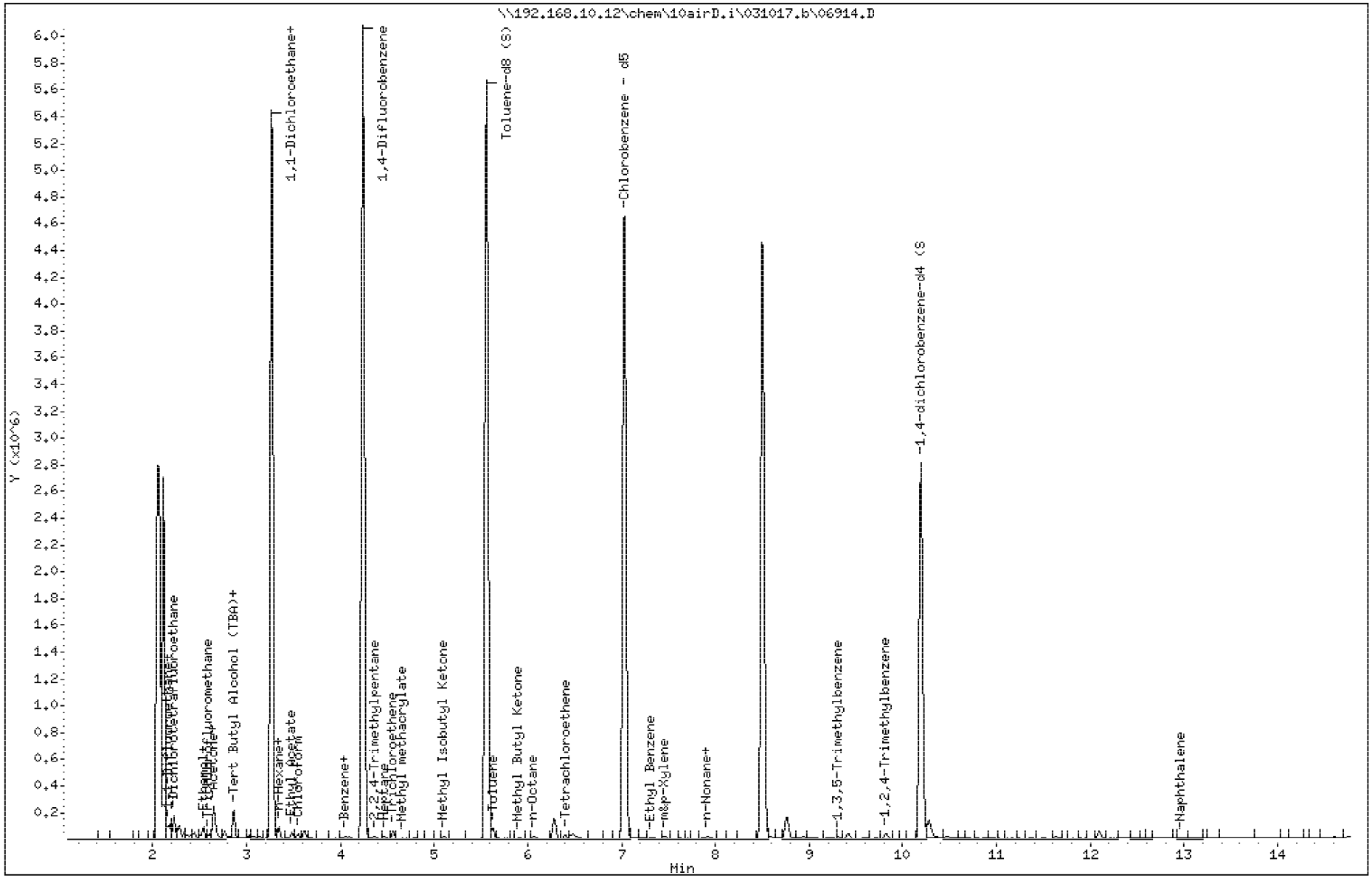
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3299747	-12.88
67 Chlorobenzene - d	3280875	1968525	4593225	2492859	-24.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D
Date : 10-MAR-2017 21:10
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

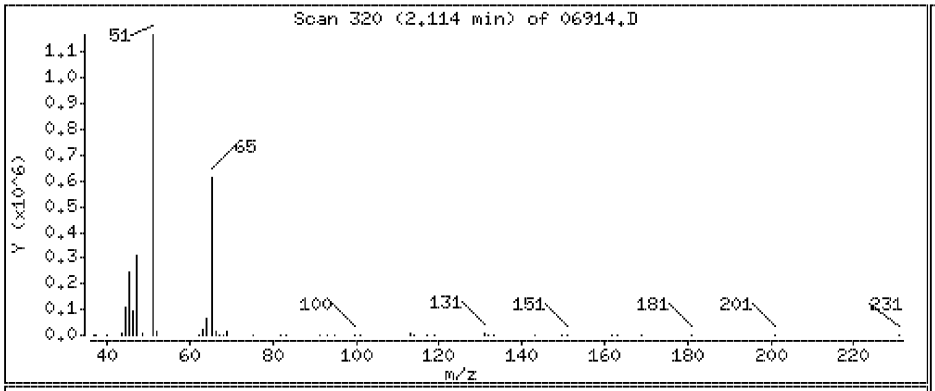
Operator: DR1

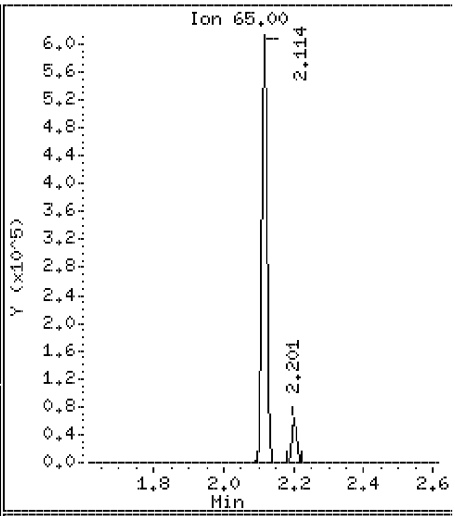
Column phase: J&W DB-5

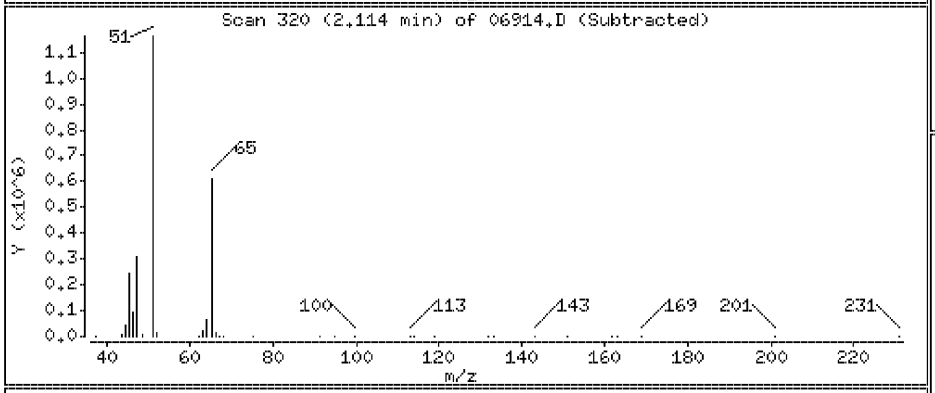
Column diameter: 0.32

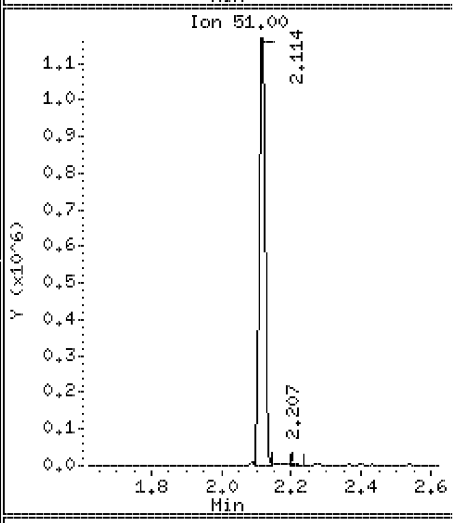
2 1,1-Difluoroethane

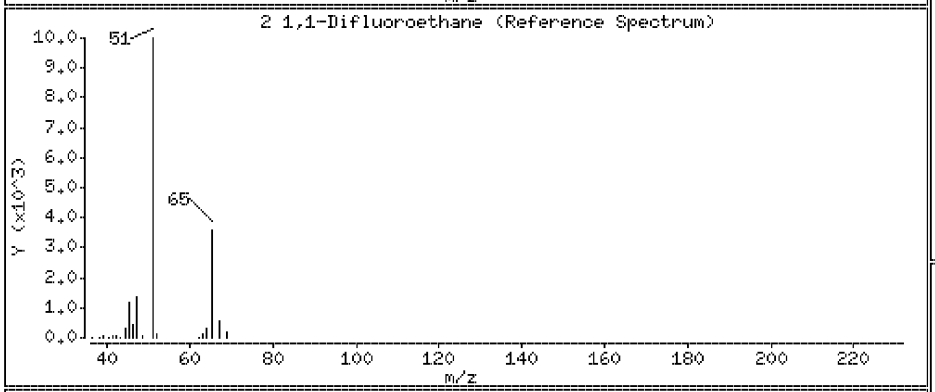
Concentration: 61.1 ppbv

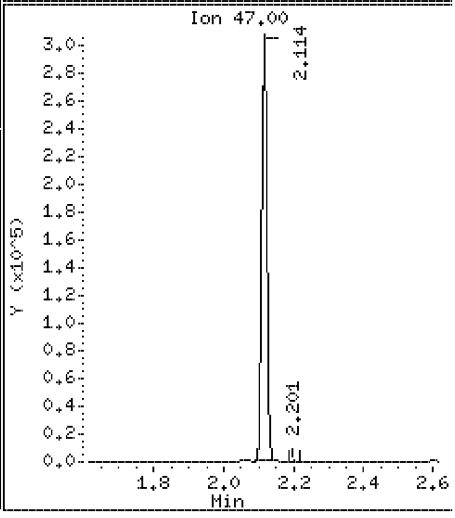


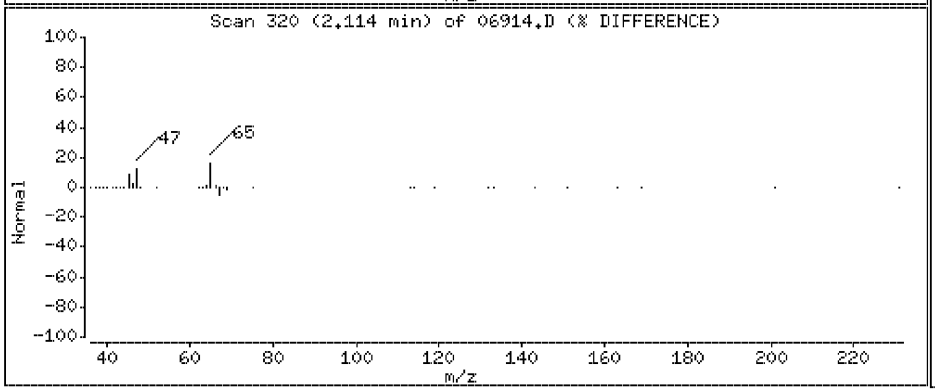












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

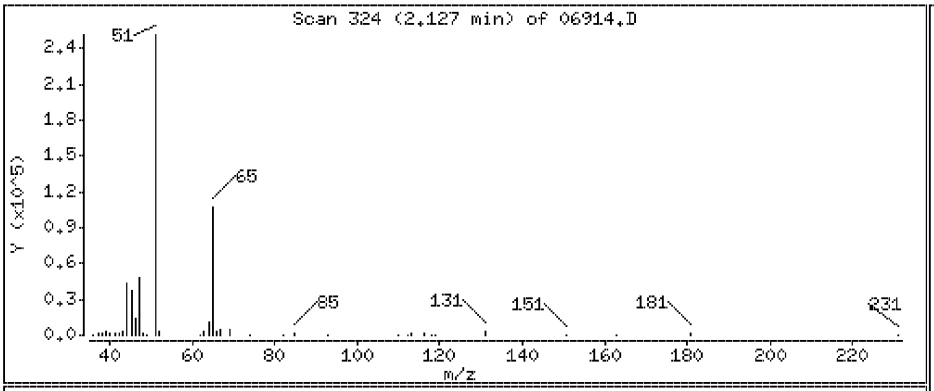
Operator: DR1

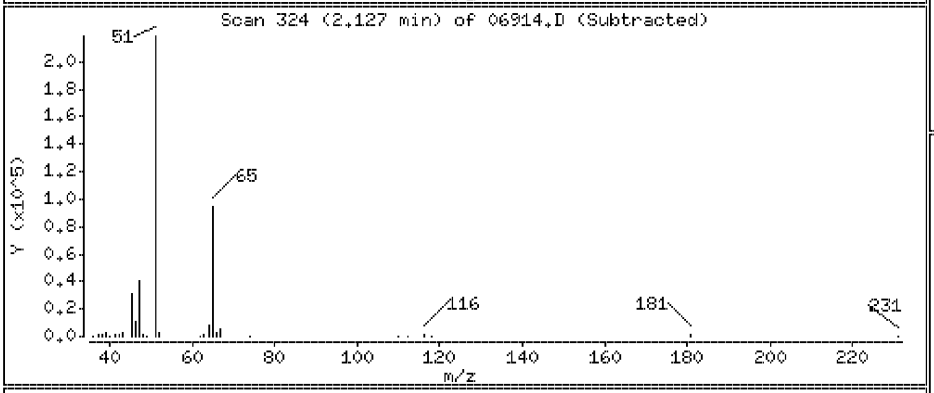
Column phase: J&W DB-5

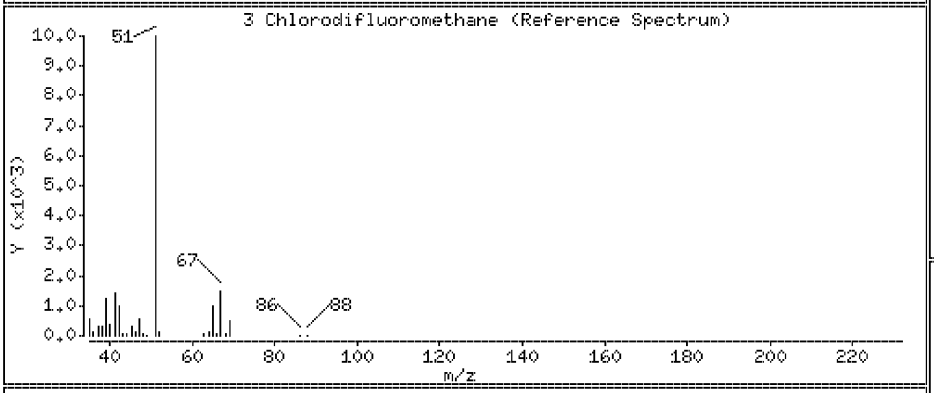
Column diameter: 0.32

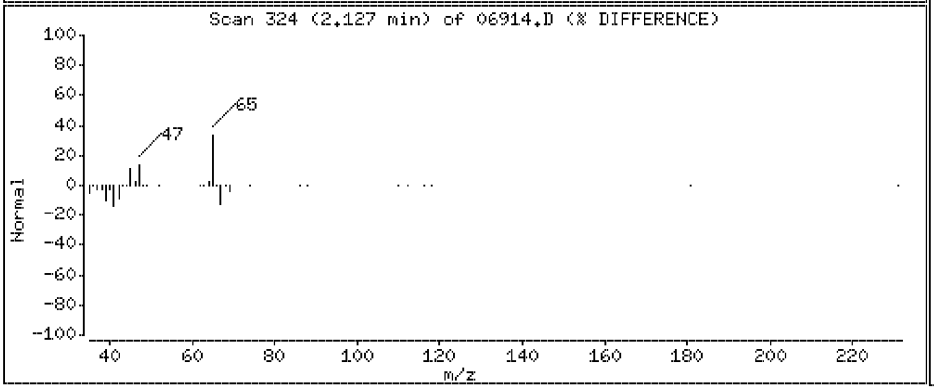
3 Chlorodifluoromethane

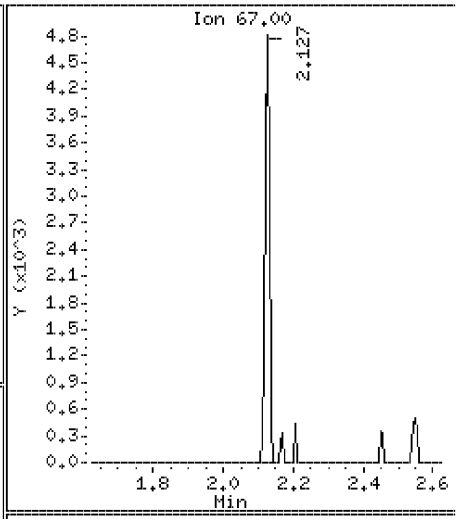
Concentration: 0.858 ppbv

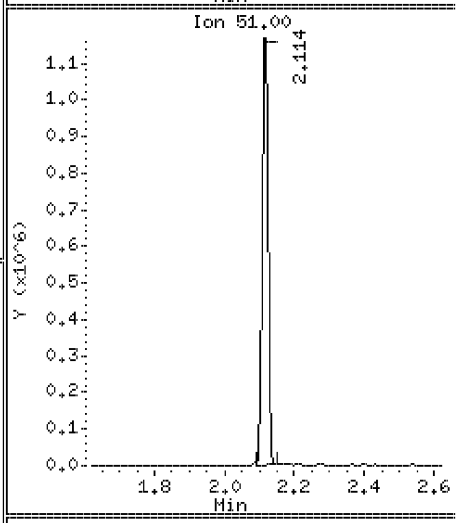


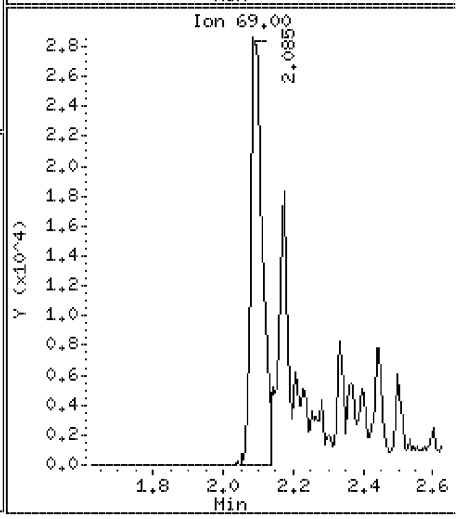












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

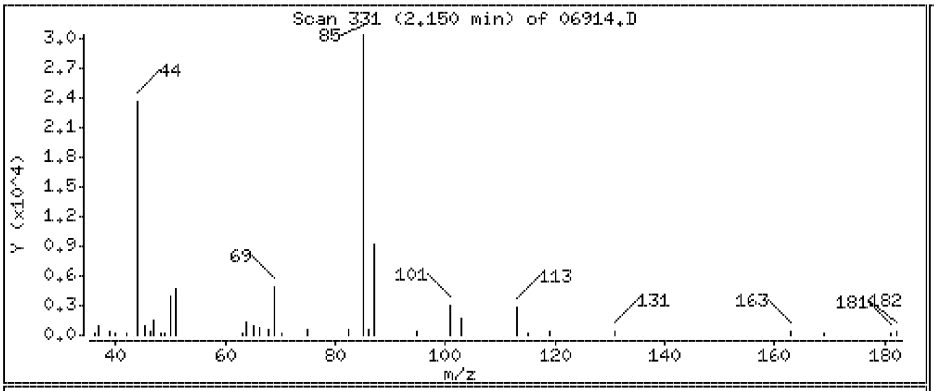
Operator: DR1

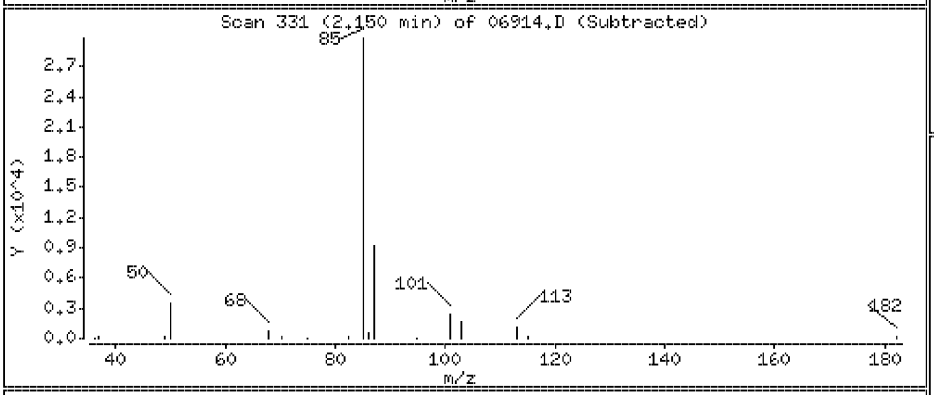
Column phase: J&W DB-5

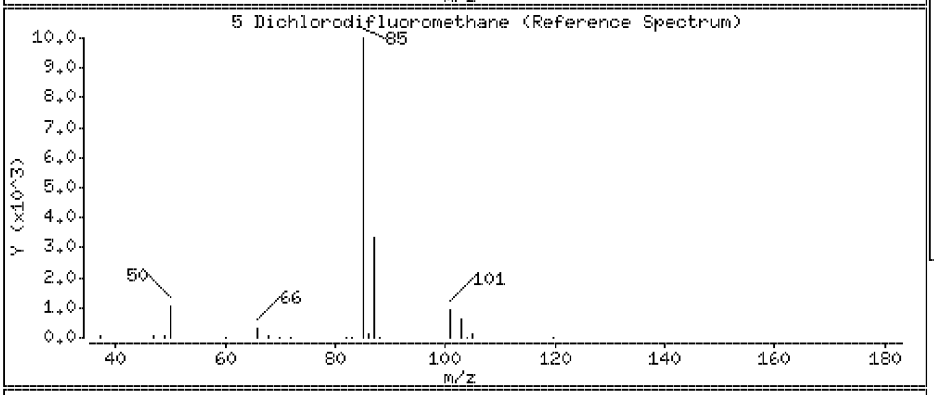
Column diameter: 0.32

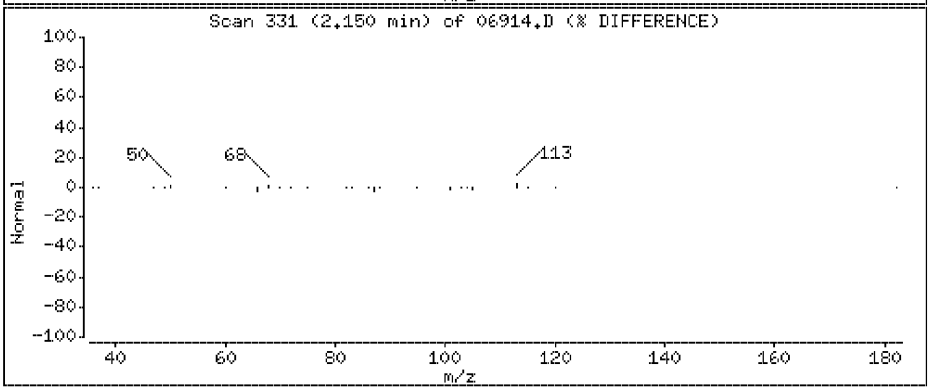
5 Dichlorodifluoromethane

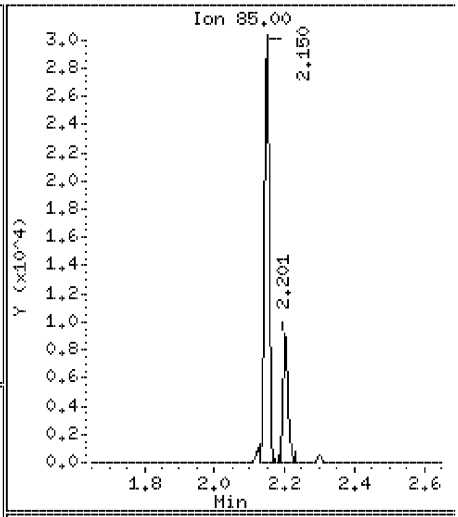
Concentration: 0.596 ppbv

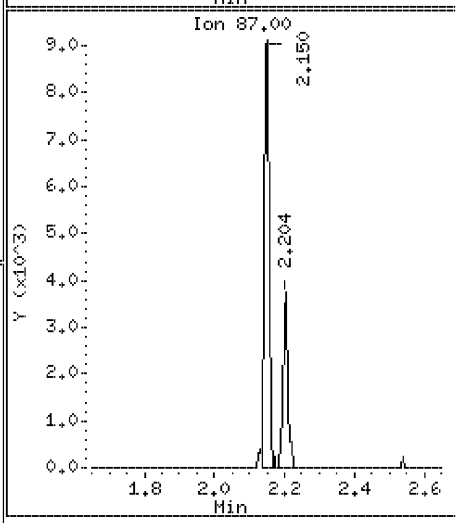












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

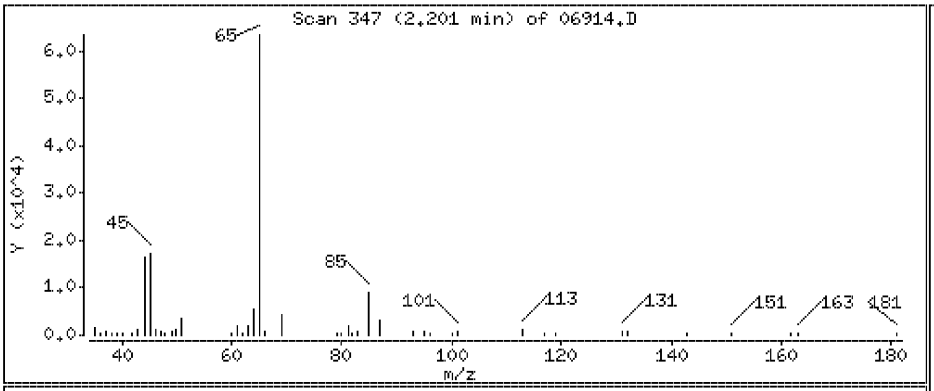
Operator: DR1

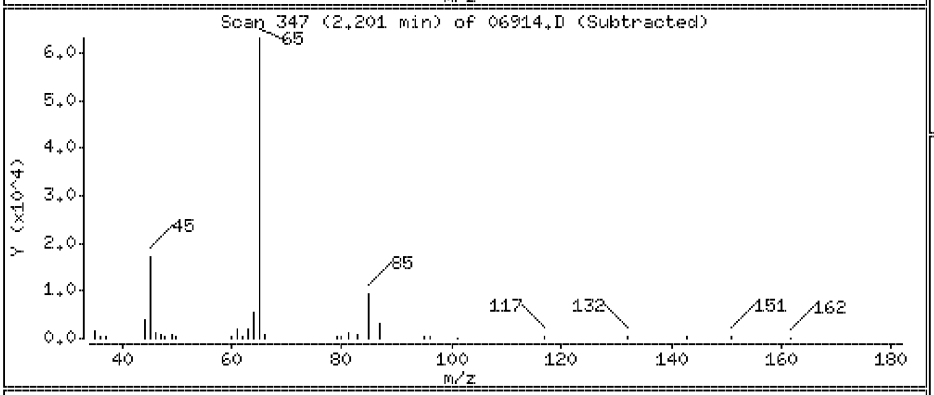
Column phase: J&W DB-5

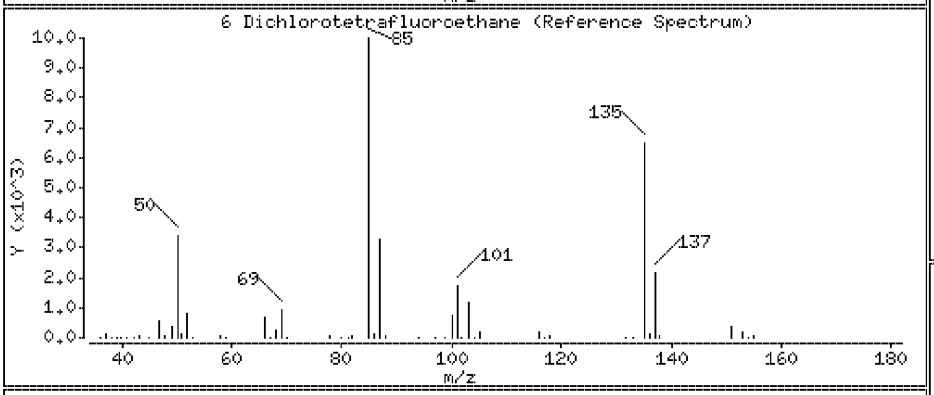
Column diameter: 0.32

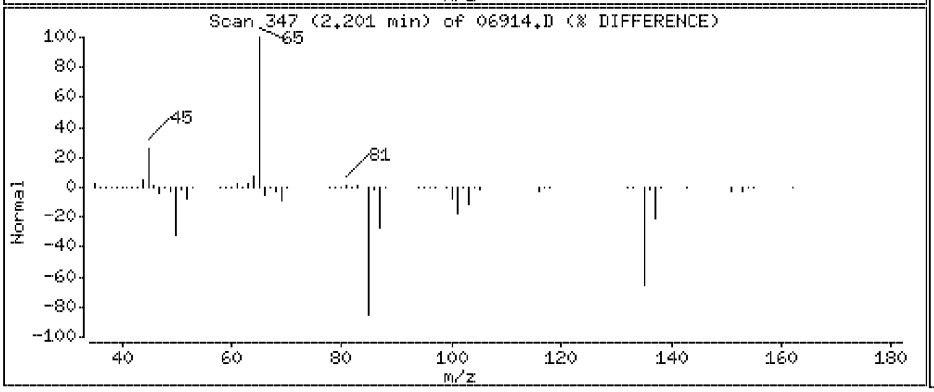
6 Dichlorotetrafluoroethane

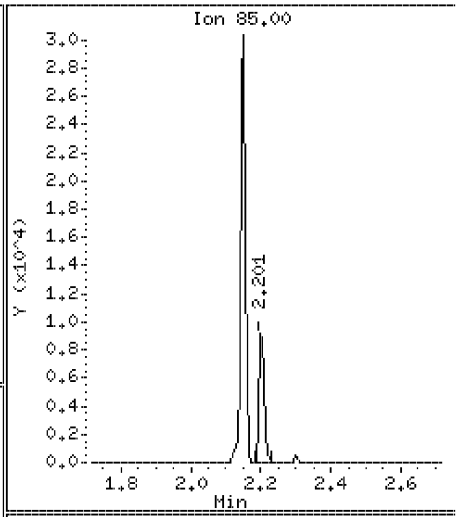
Concentration: 0.192 ppbv

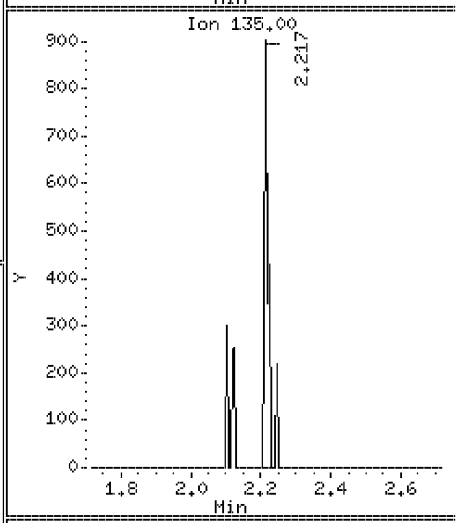


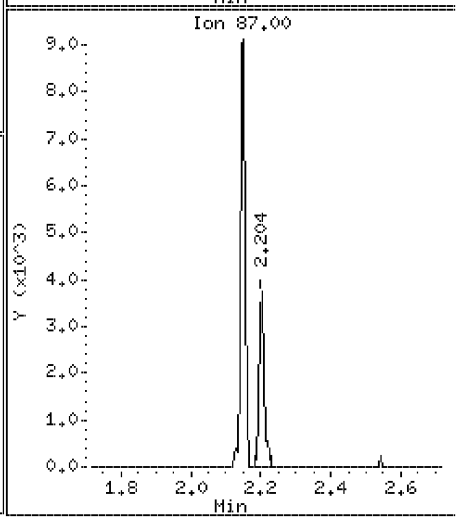












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

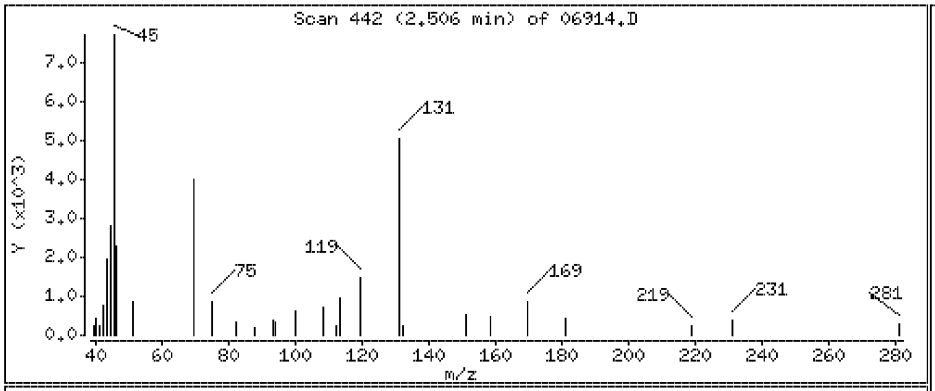
Operator: DR1

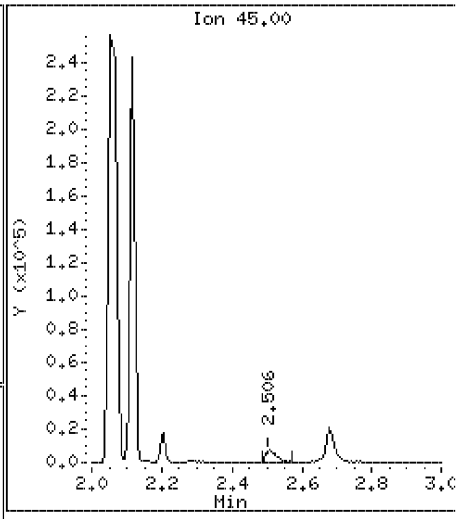
Column phase: J&W DB-5

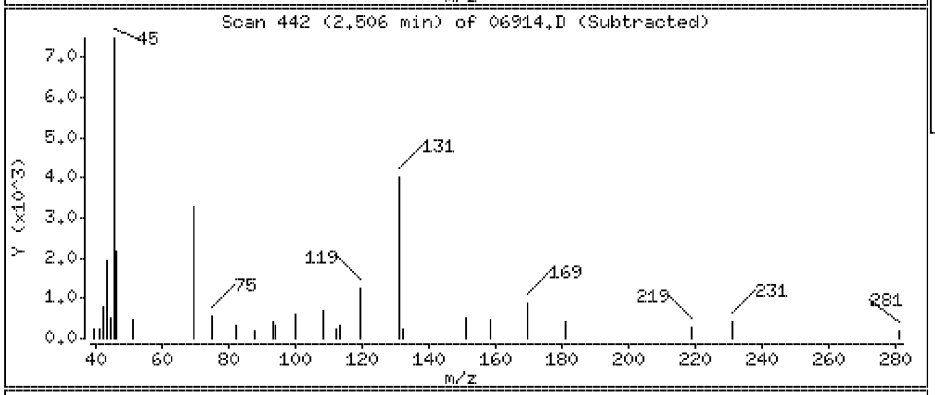
Column diameter: 0.32

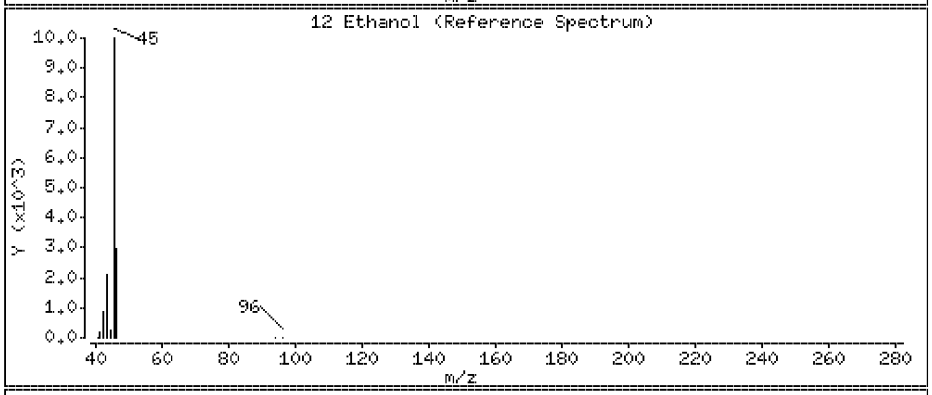
12 Ethanol

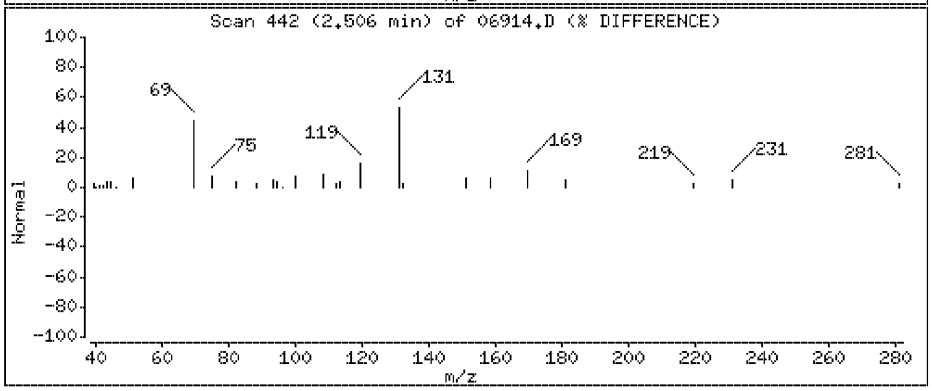
Concentration: 5.17 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

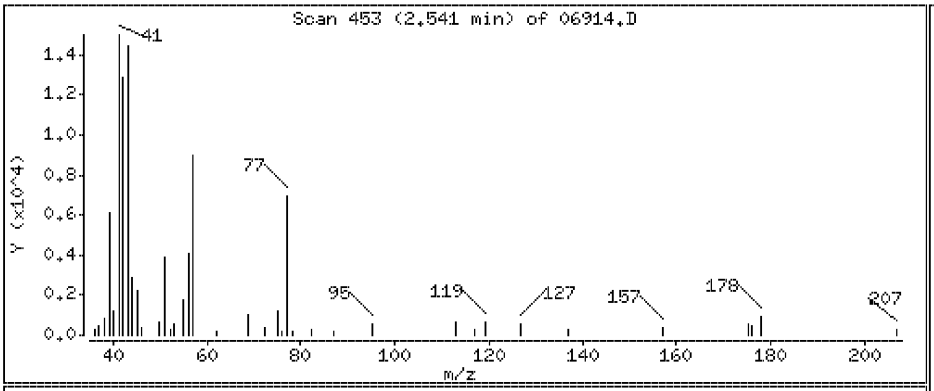
Operator: DR1

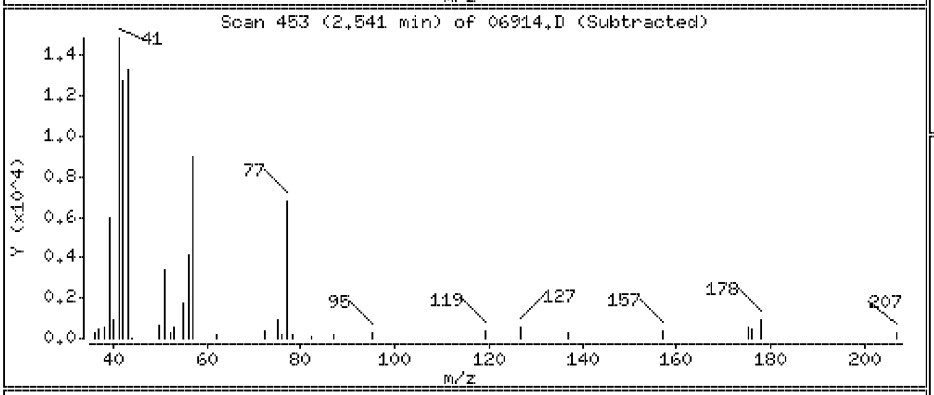
Column phase: J&W DB-5

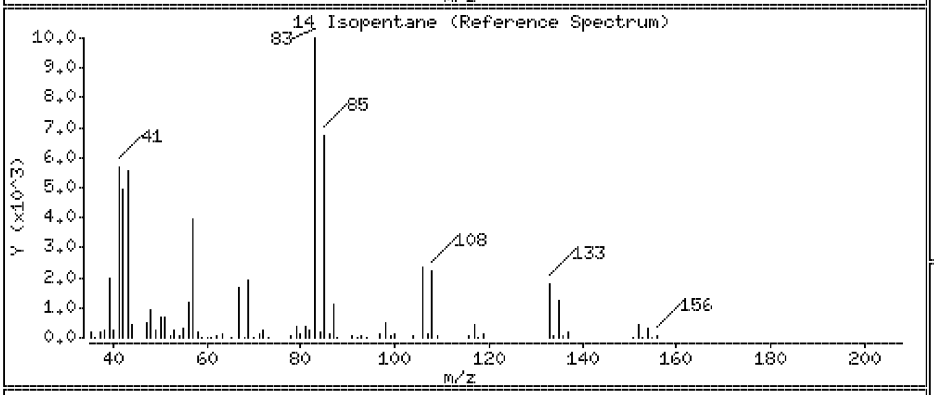
Column diameter: 0.32

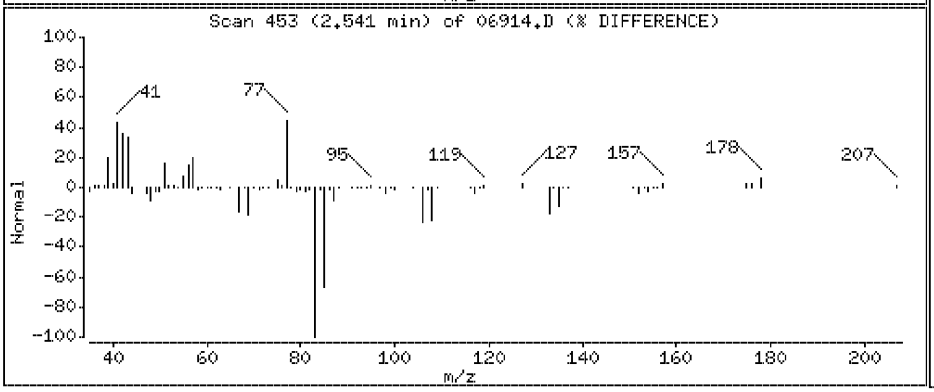
14 Isopentane

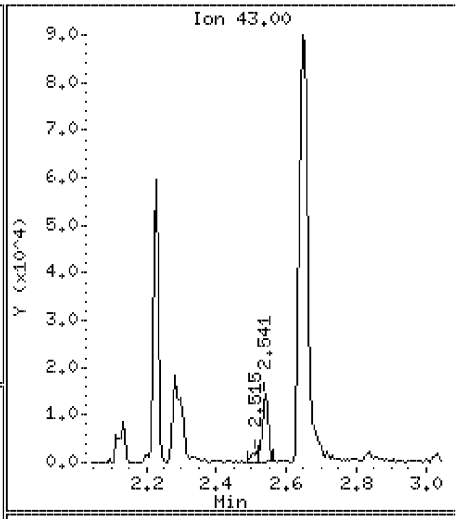
Concentration: 0.806 ppbv

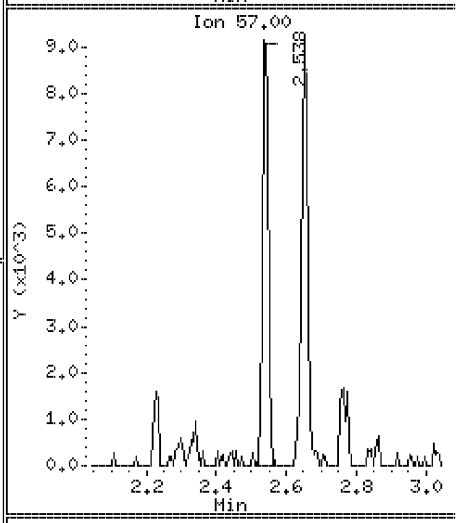


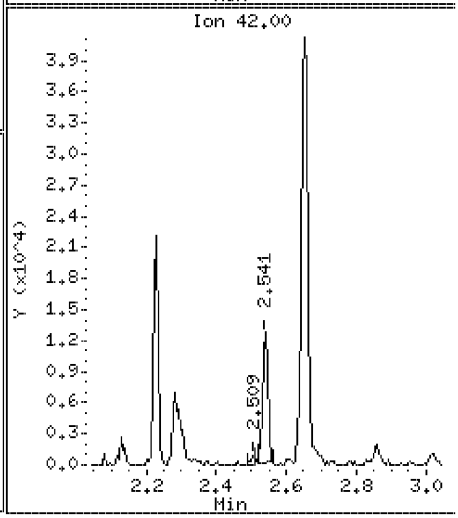












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

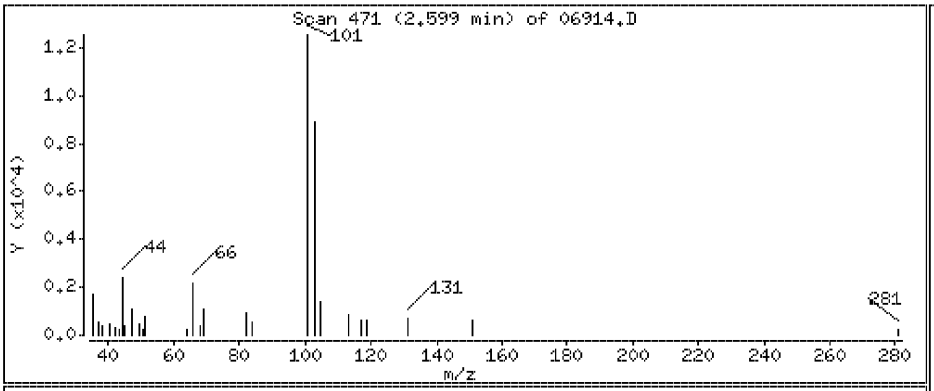
Operator: DR1

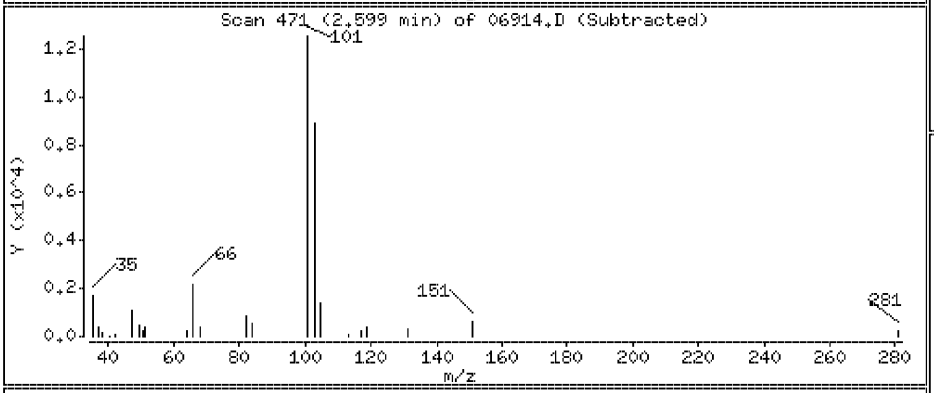
Column phase: J&W DB-5

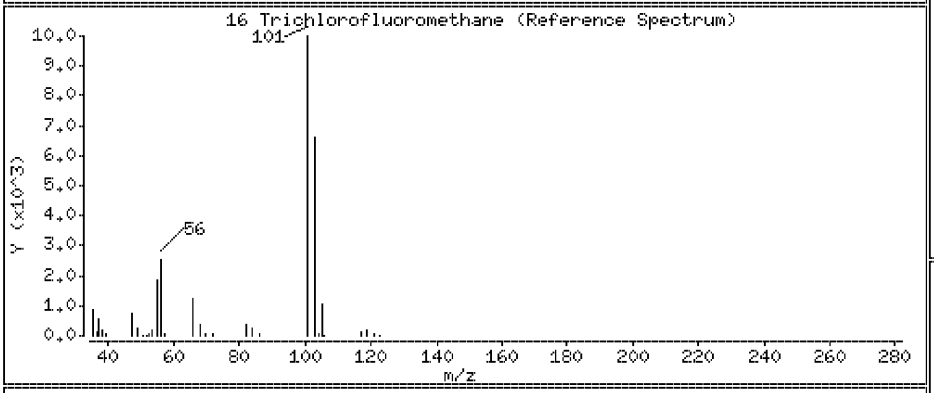
Column diameter: 0.32

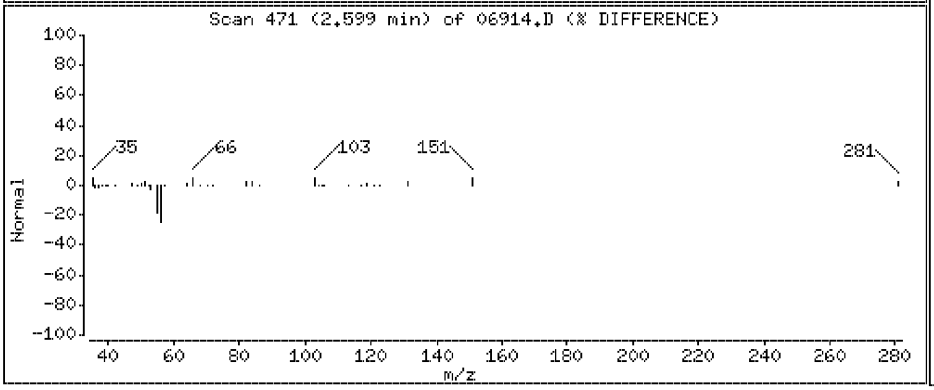
16 Trichlorofluoromethane

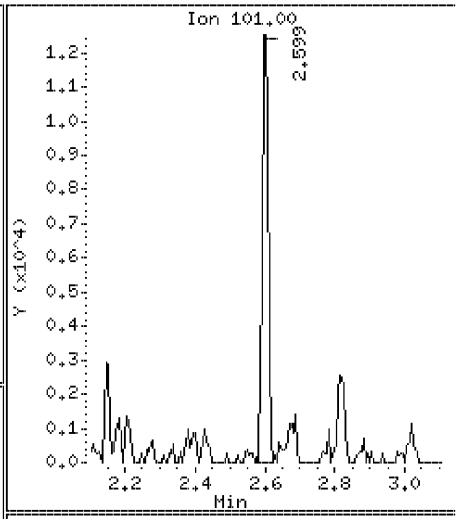
Concentration: 0.291 ppbv

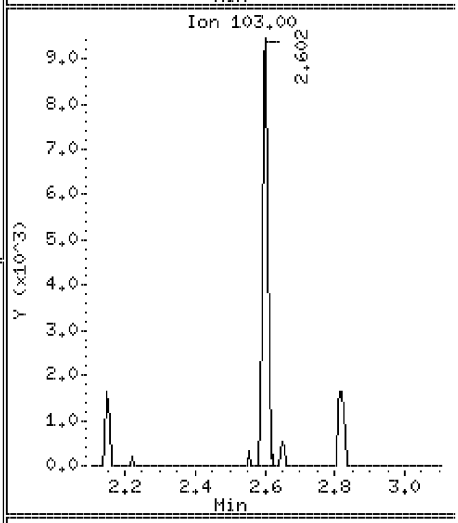


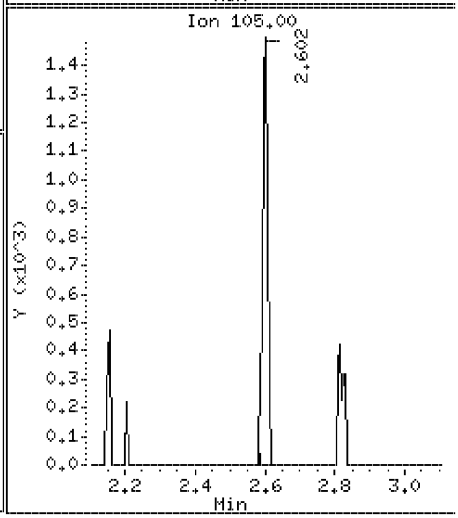












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

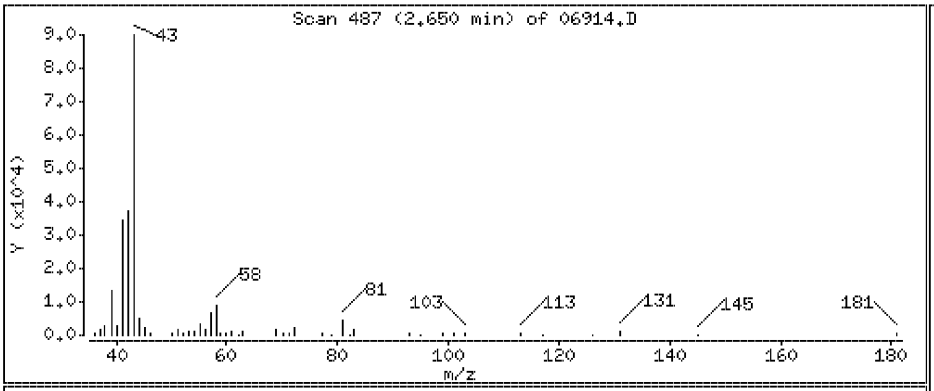
Operator: DR1

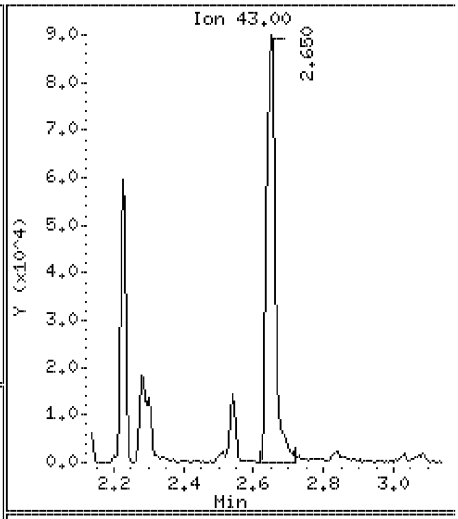
Column phase: J&W DB-5

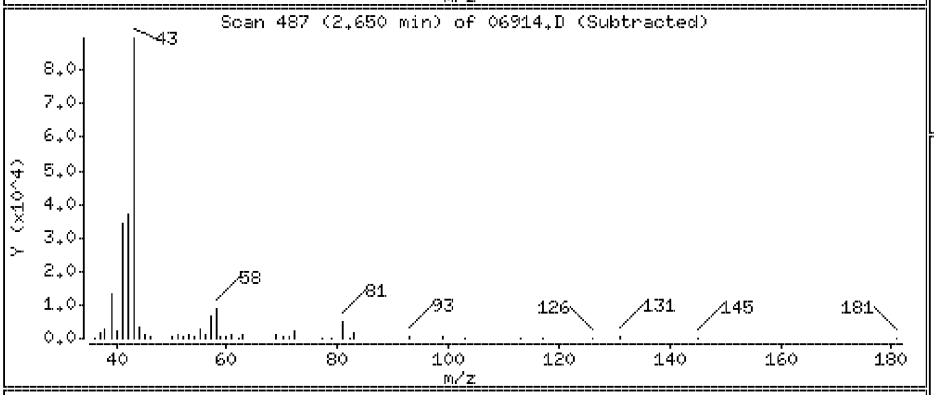
Column diameter: 0.32

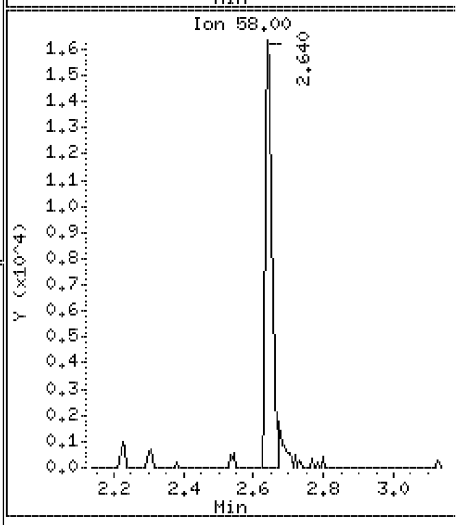
18 Acetone

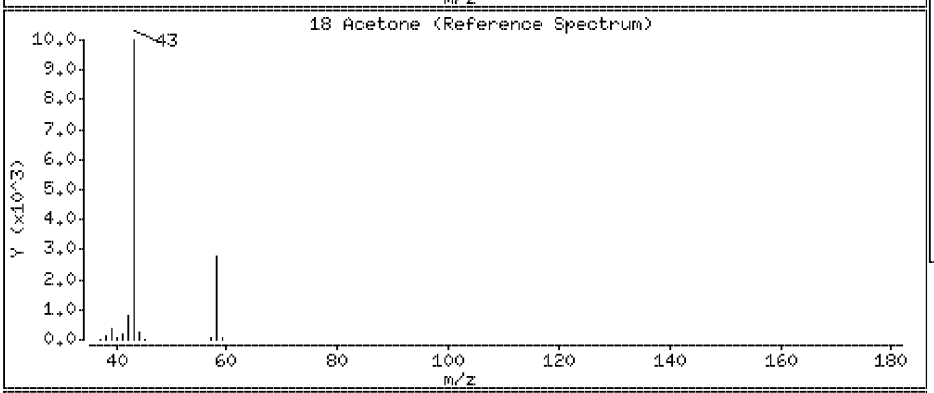
Concentration: 4.92 ppbv

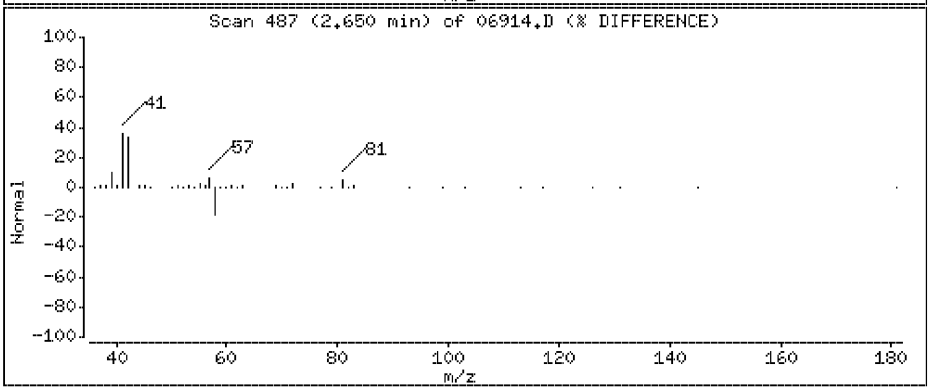












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

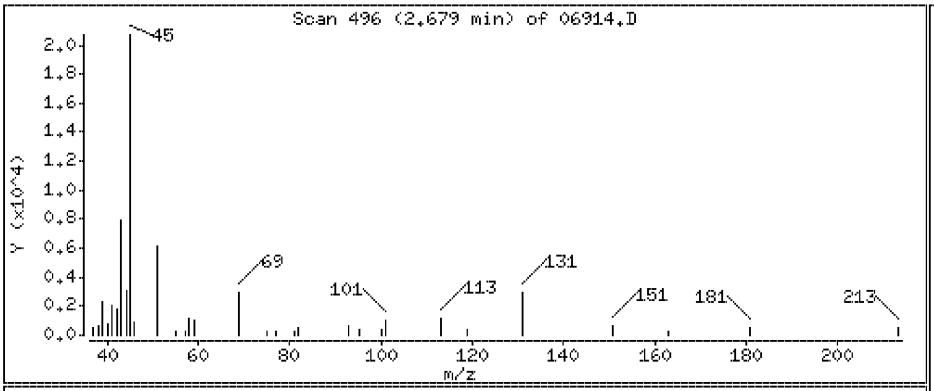
Operator: DR1

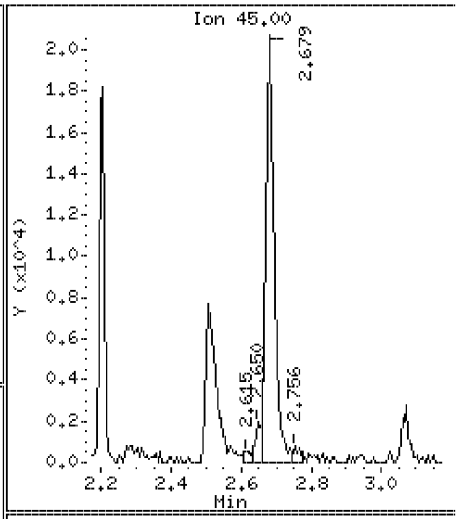
Column phase: J&W DB-5

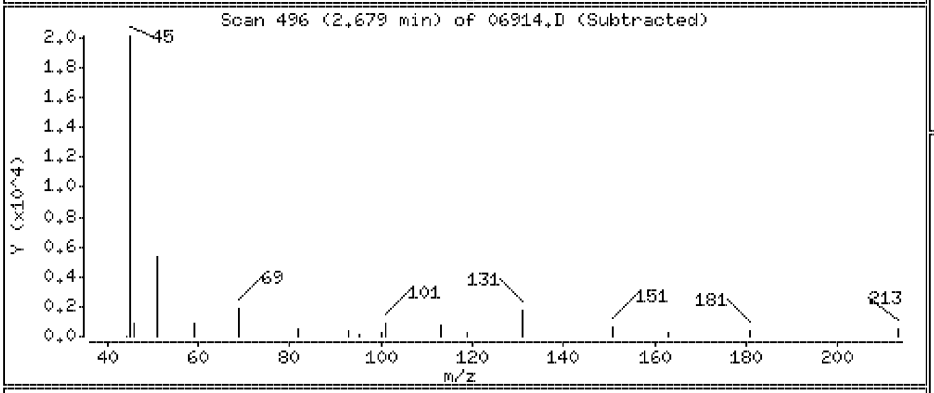
Column diameter: 0.32

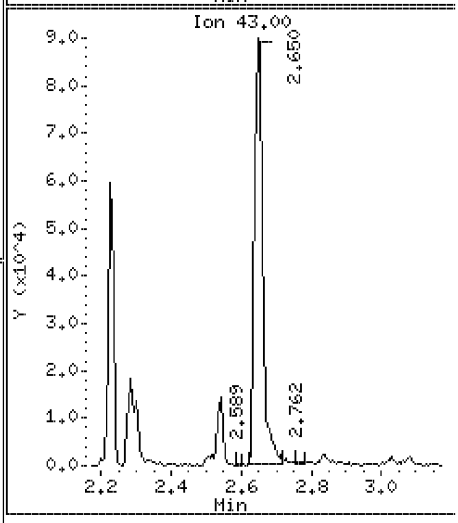
19 Isopropyl Alcohol

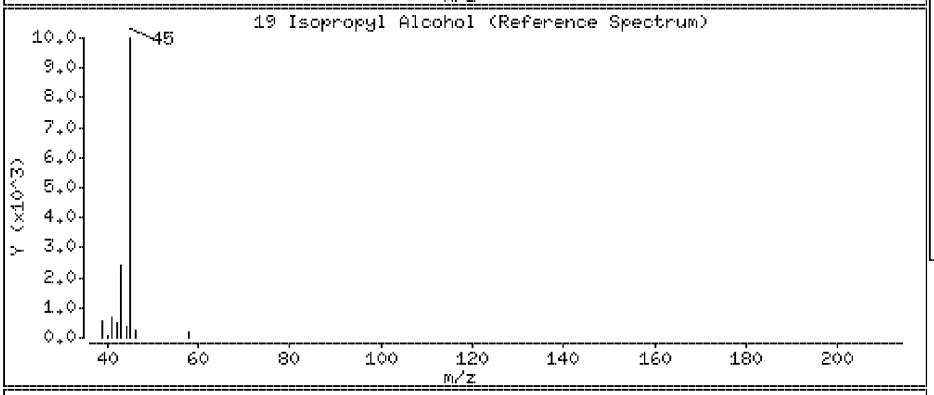
Concentration: 2.18 ppbv

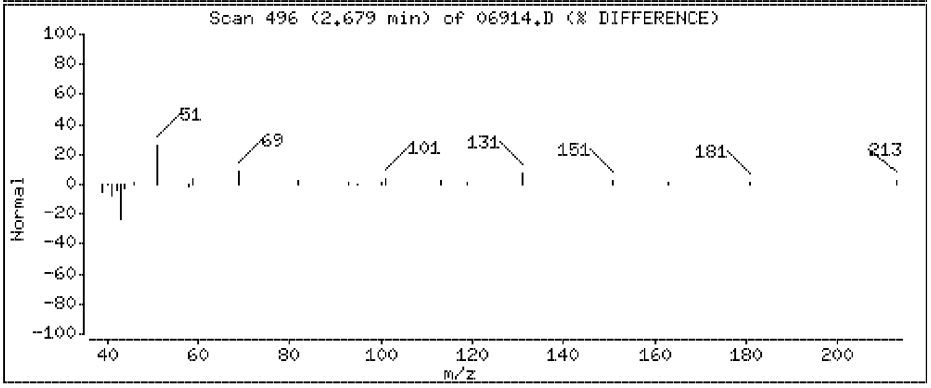












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

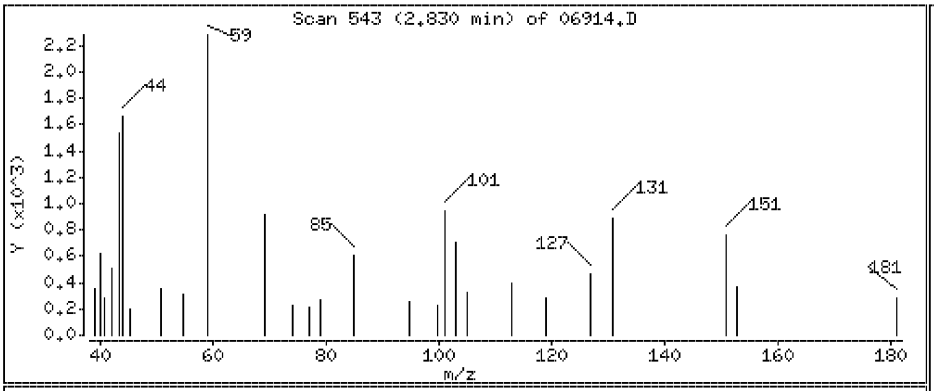
Operator: DR1

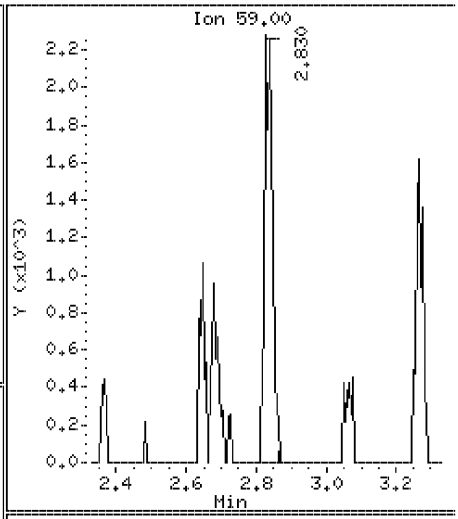
Column phase: J&W DB-5

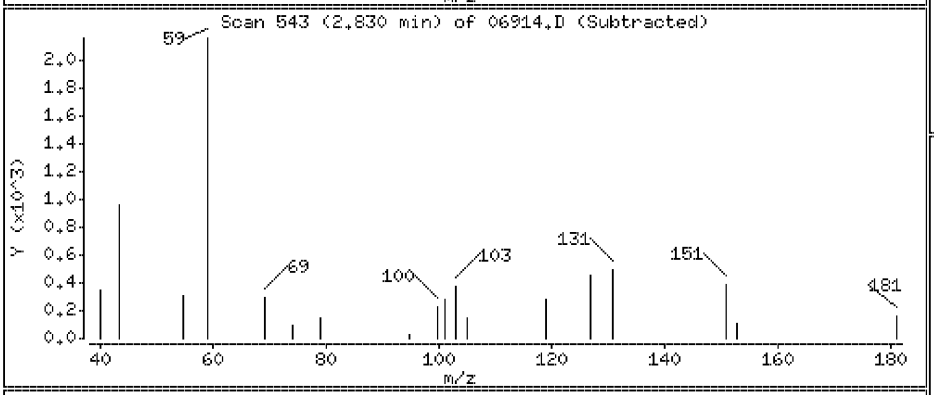
Column diameter: 0.32

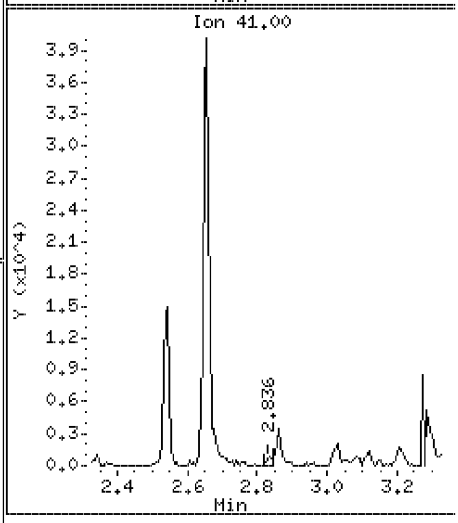
24 Tert Butyl Alcohol (TBA)

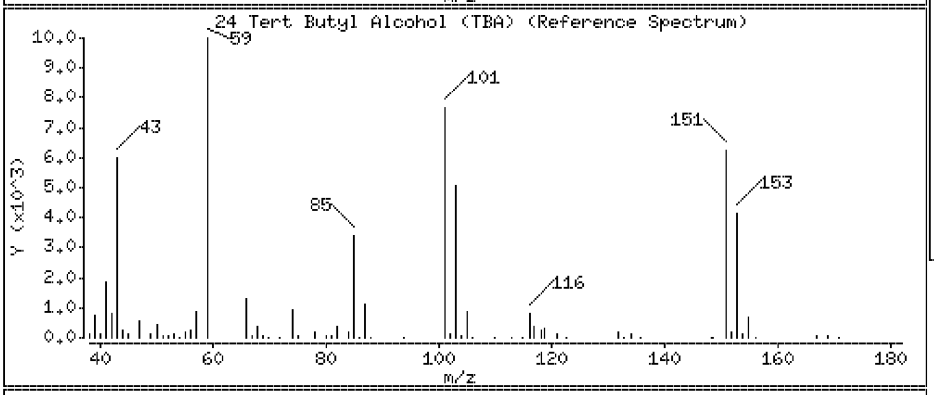
Concentration: 0.155 ppbv

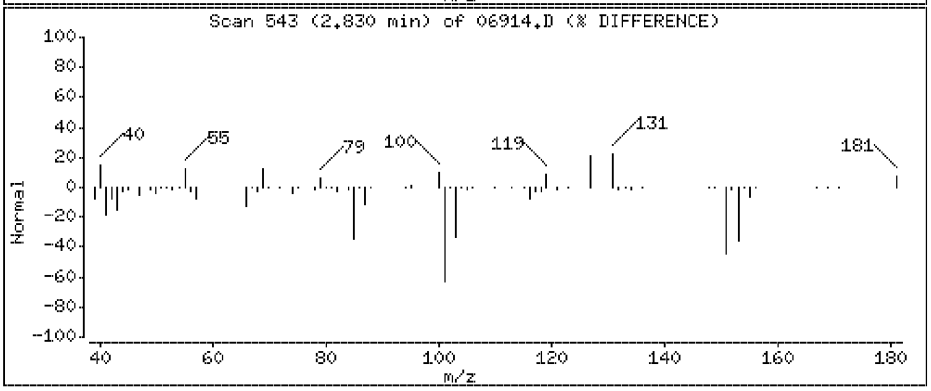












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

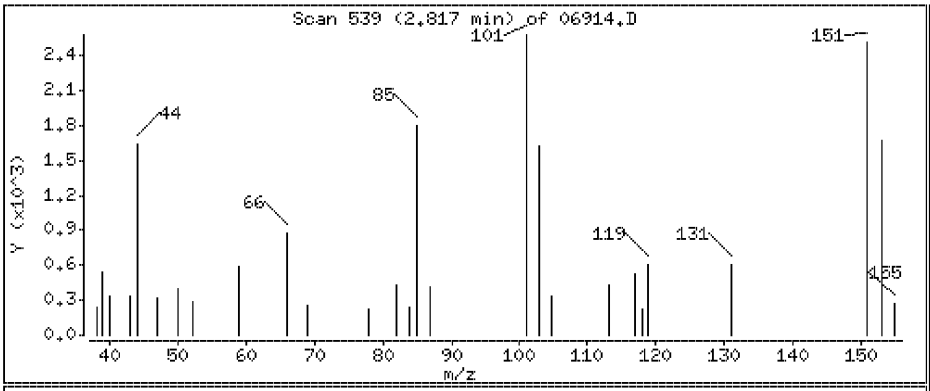
Operator: DR1

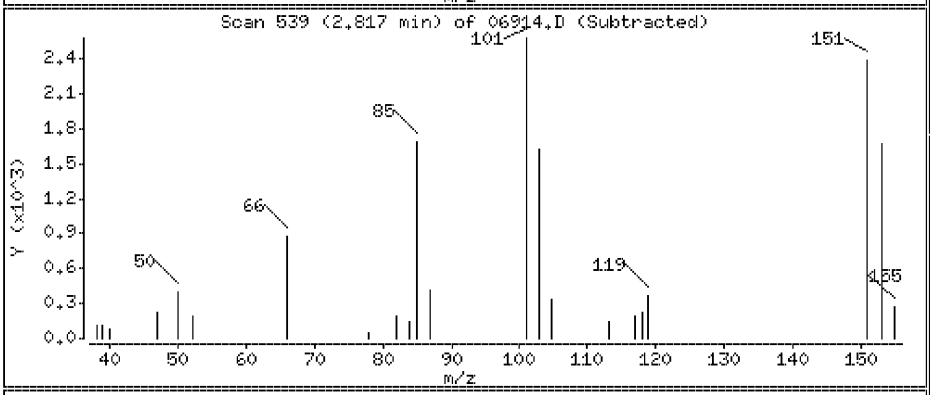
Column phase: J&W DB-5

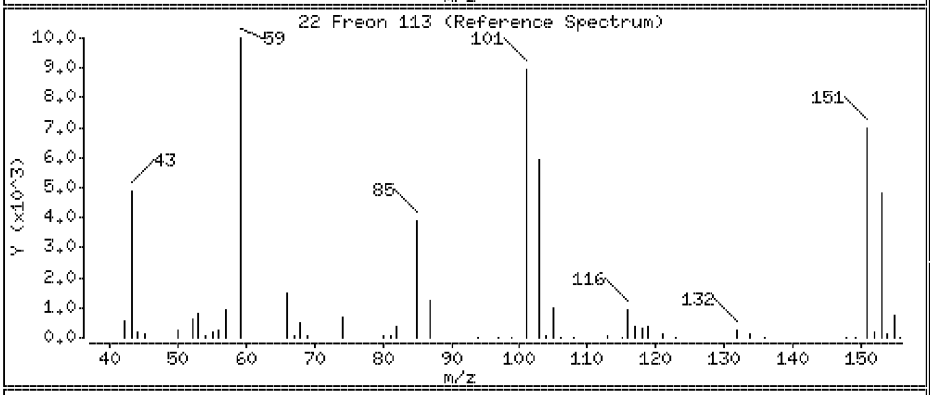
Column diameter: 0.32

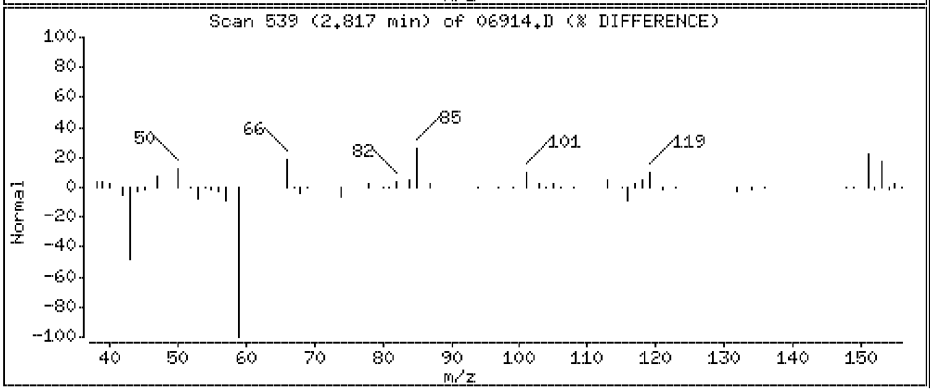
22 Freon 113

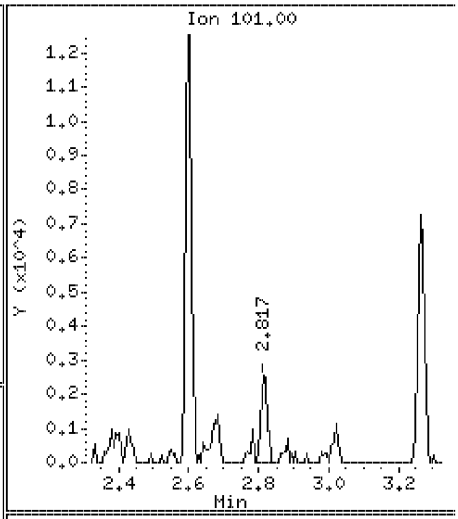
Concentration: 0.0924 ppbv

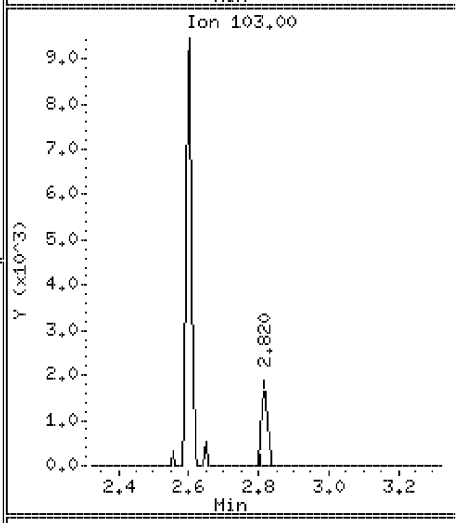


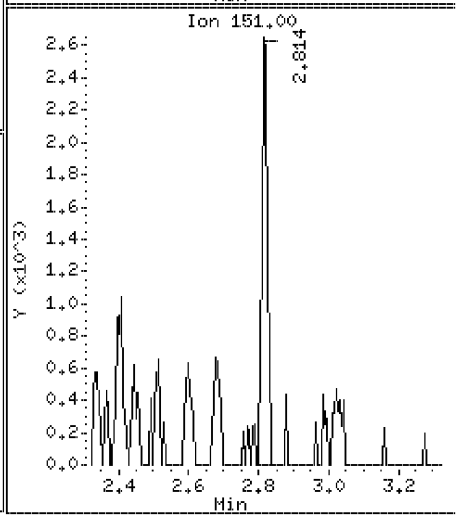












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

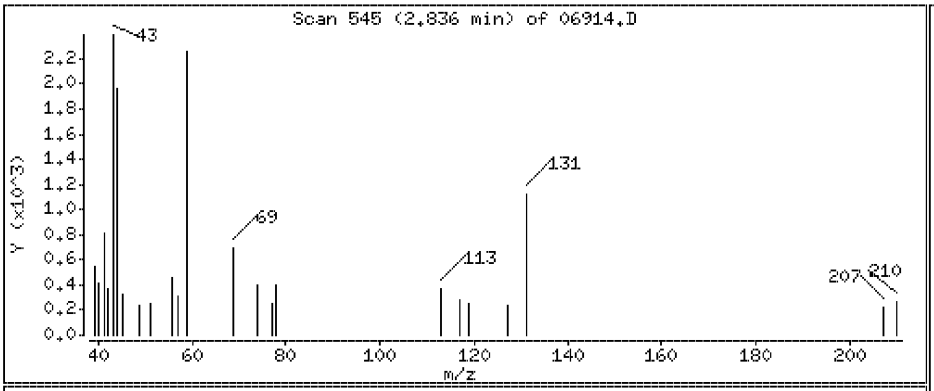
Operator: DR1

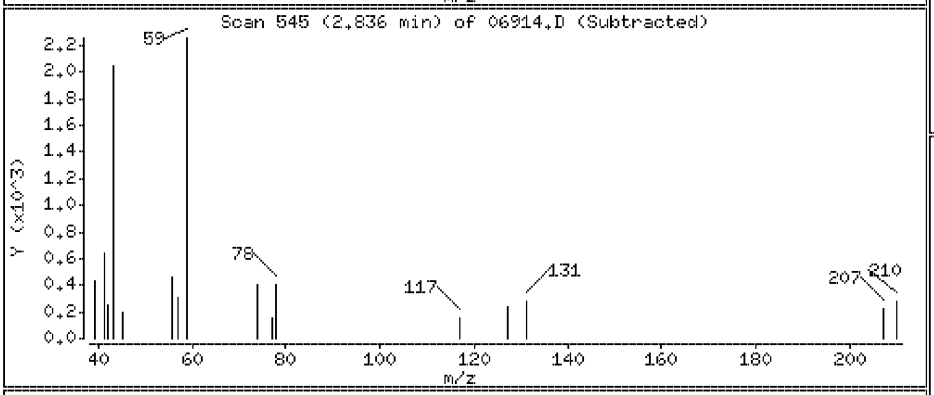
Column phase: J&W DB-5

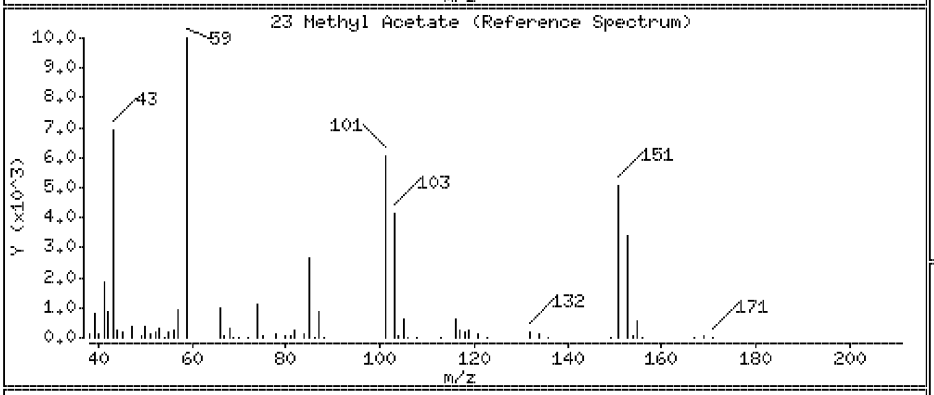
Column diameter: 0.32

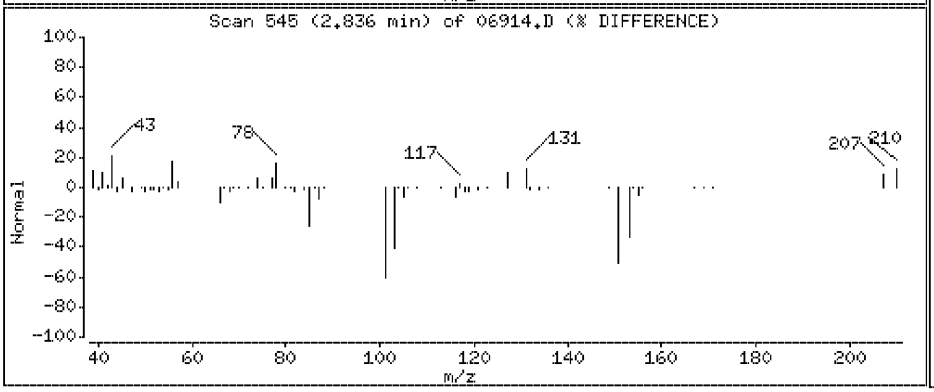
23 Methyl Acetate

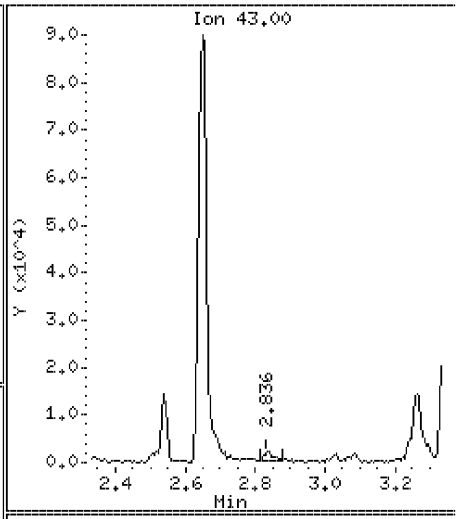
Concentration: 0.0959 ppbv

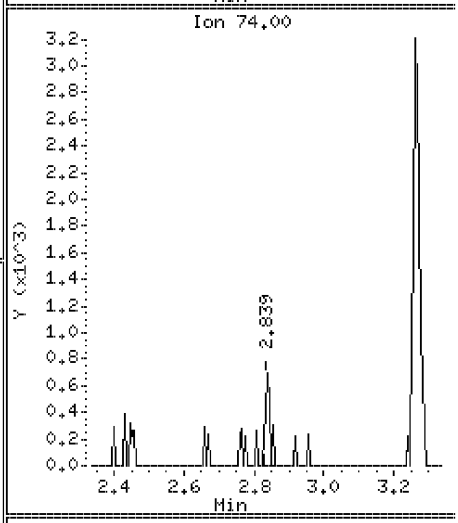


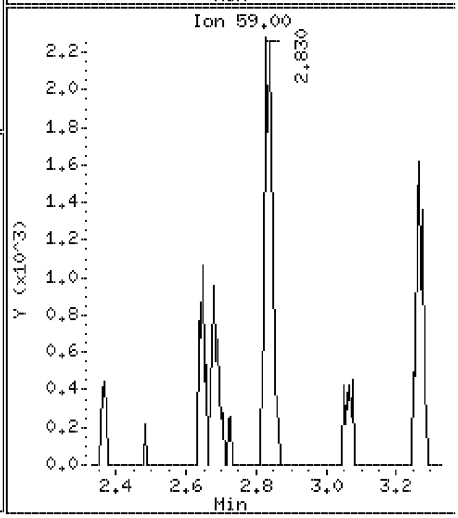












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

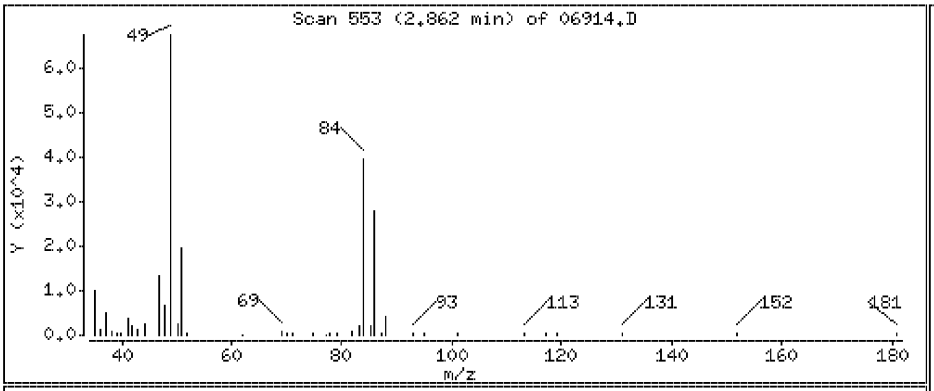
Operator: DR1

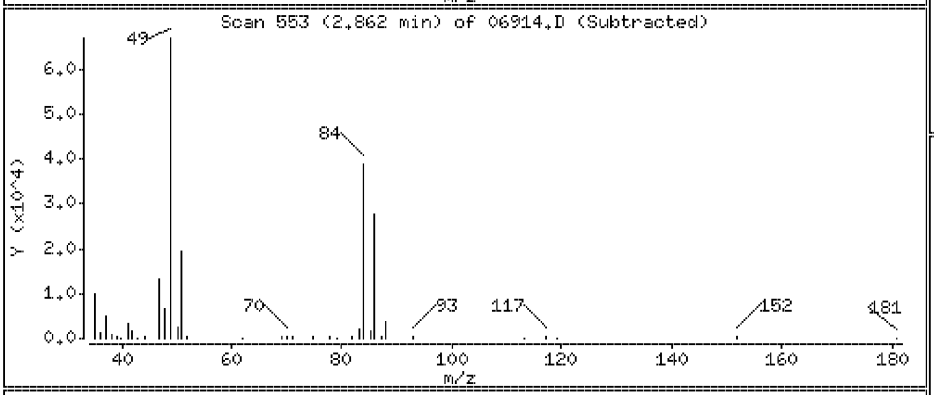
Column phase: J&W DB-5

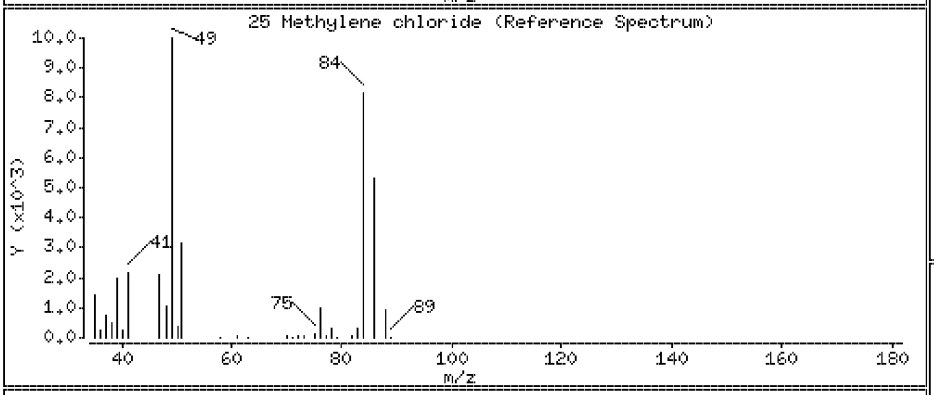
Column diameter: 0.32

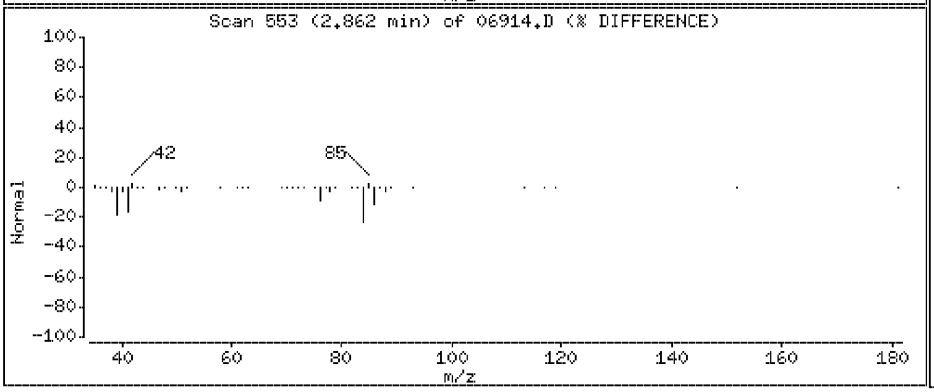
25 Methylene chloride

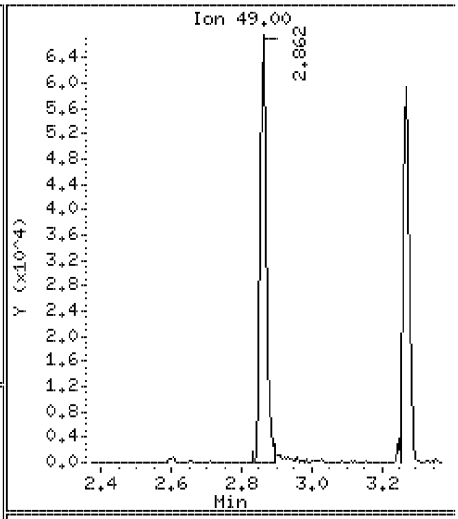
Concentration: 3.35 ppbv

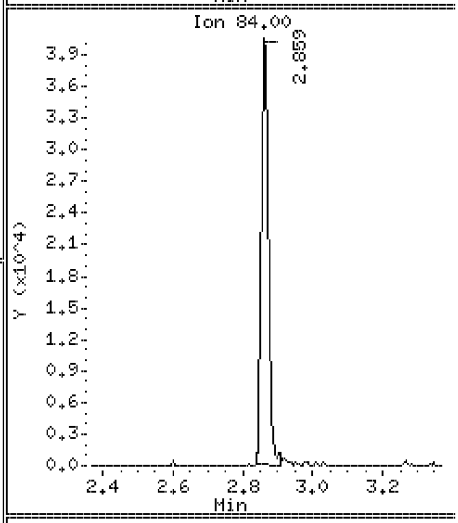


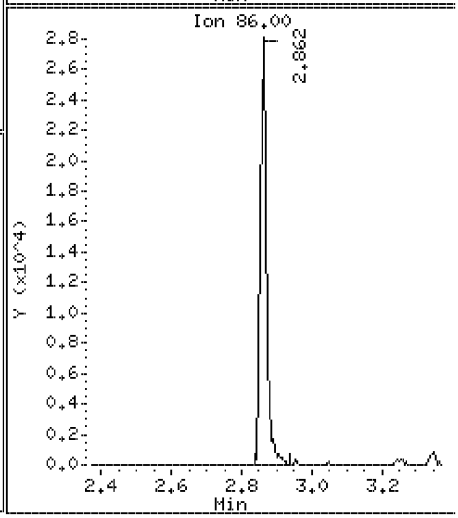












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

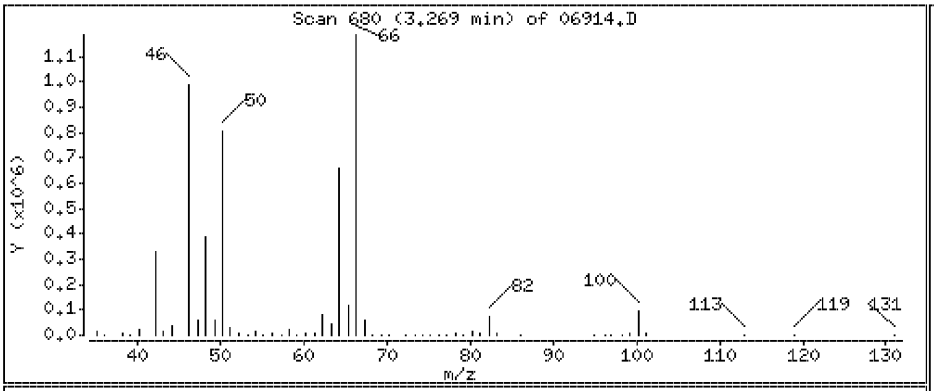
Operator: DR1

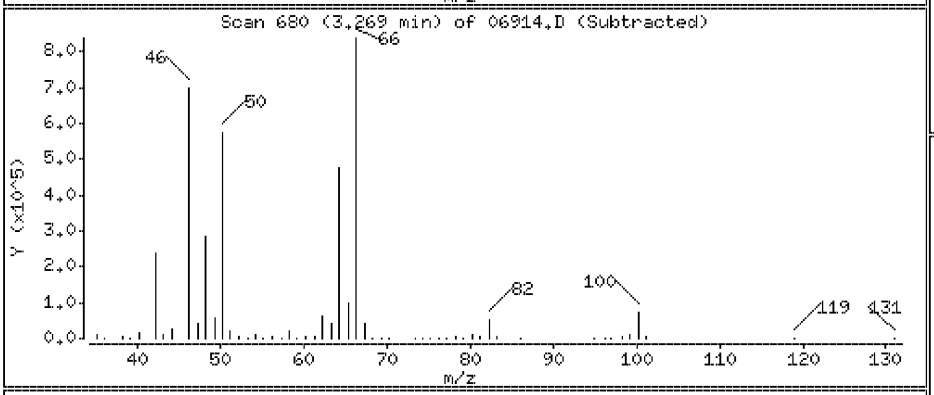
Column phase: J&W DB-5

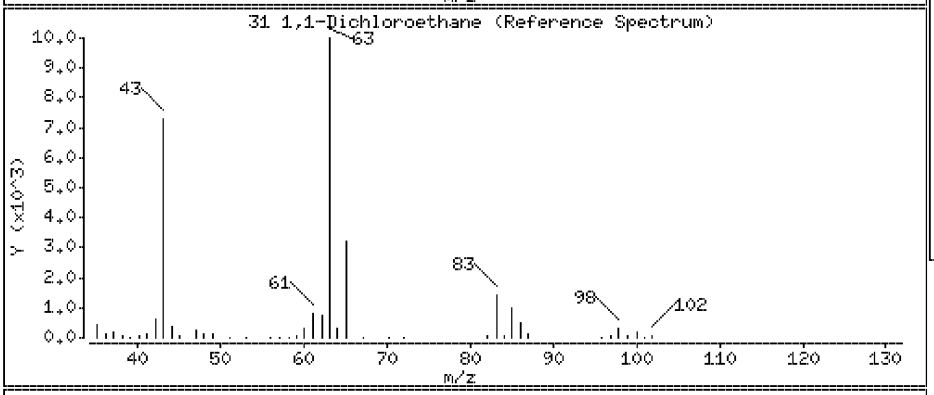
Column diameter: 0.32

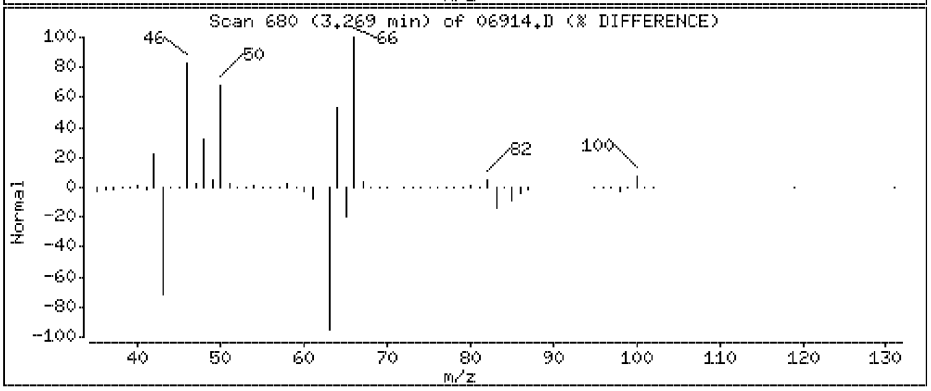
31 1,1-Dichloroethane

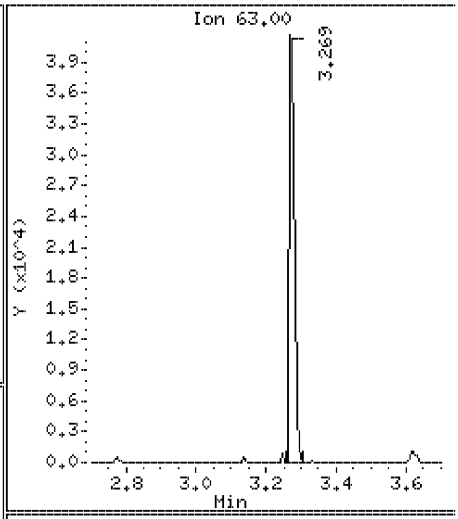
Concentration: 1.56 ppbv

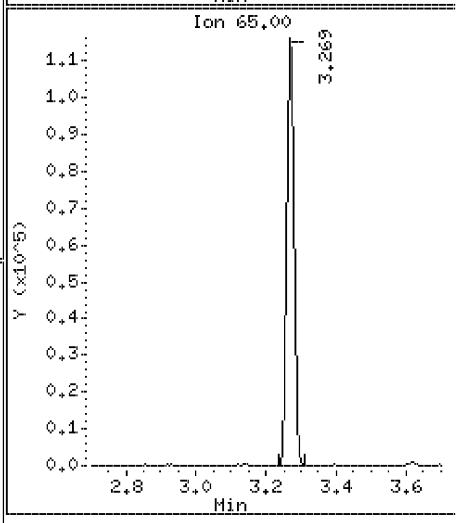












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

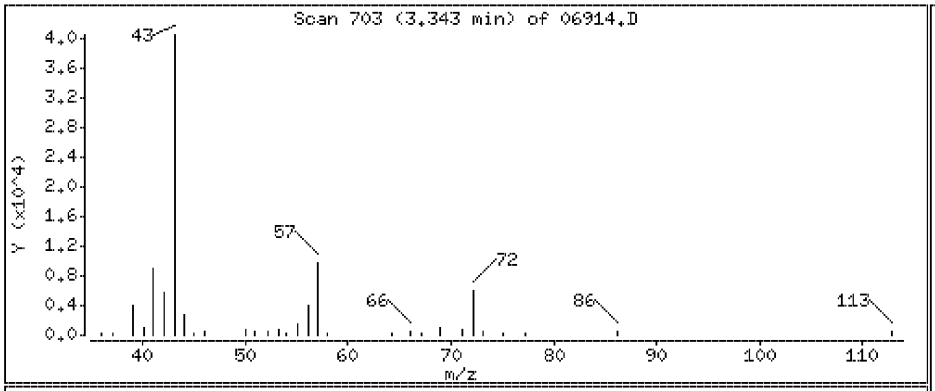
Operator: DR1

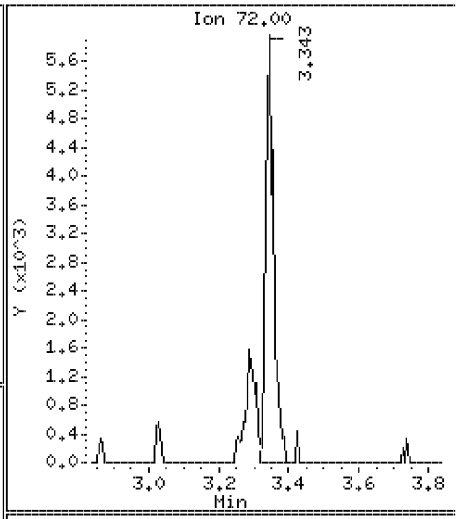
Column phase: J&W DB-5

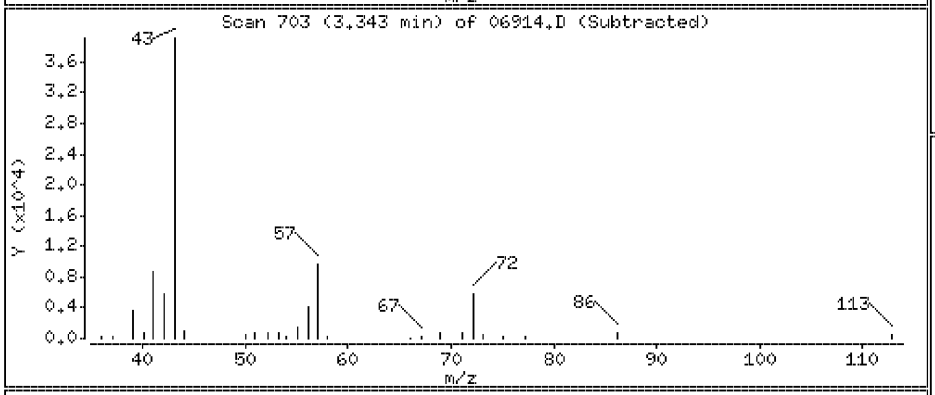
Column diameter: 0.32

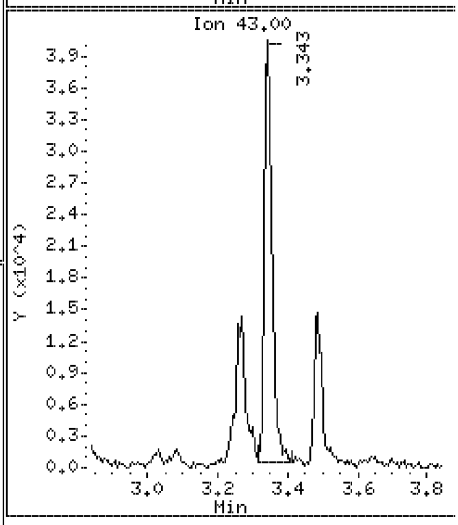
33 Methyl Ethyl Ketone

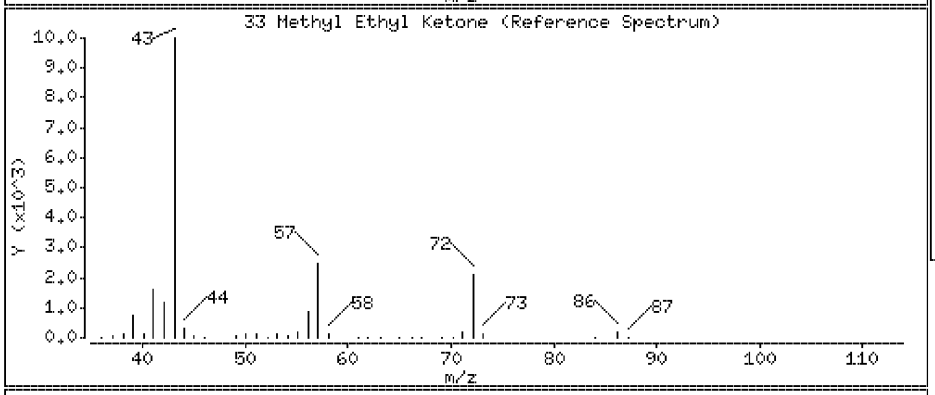
Concentration: 1.41 ppbv

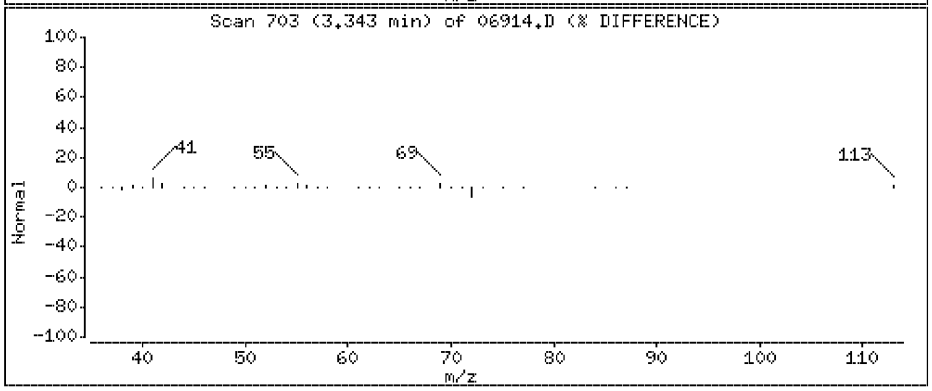












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

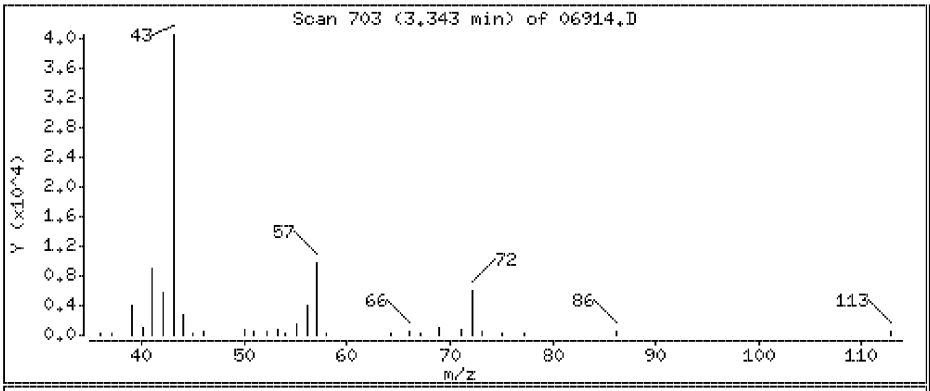
Operator: DR1

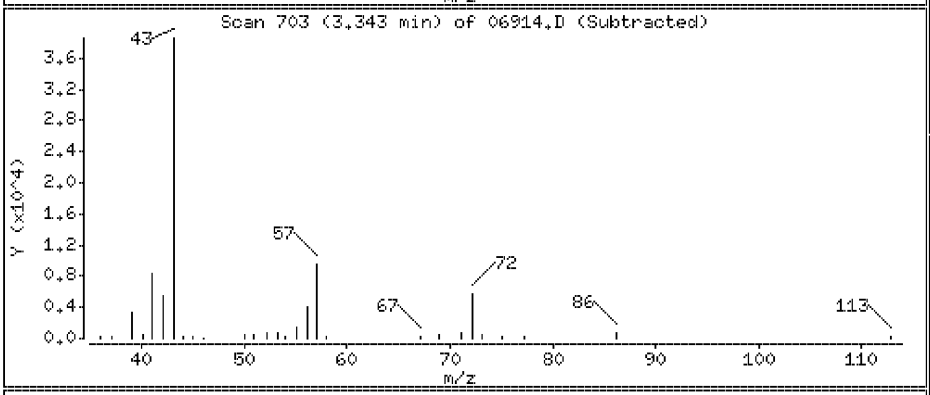
Column phase: J&W DB-5

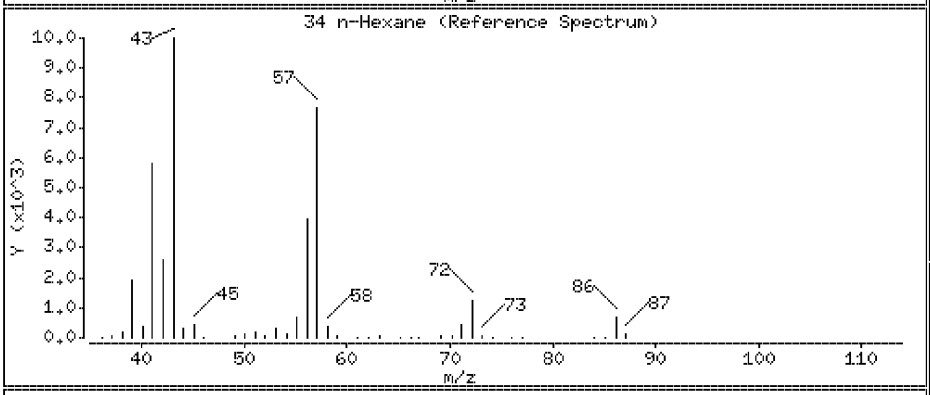
Column diameter: 0.32

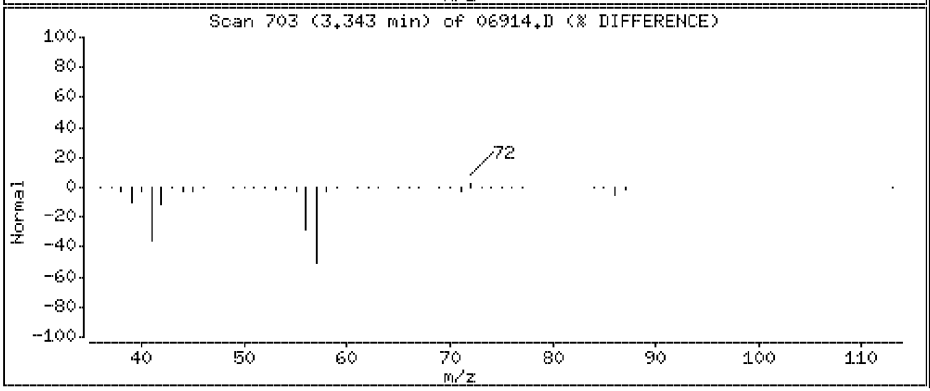
34 n-Hexane

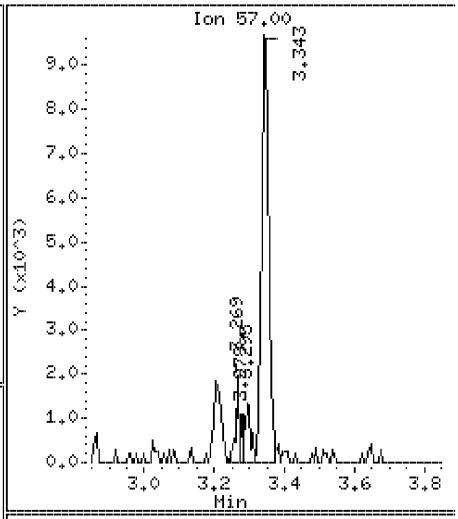
Concentration: 0.581 ppbv

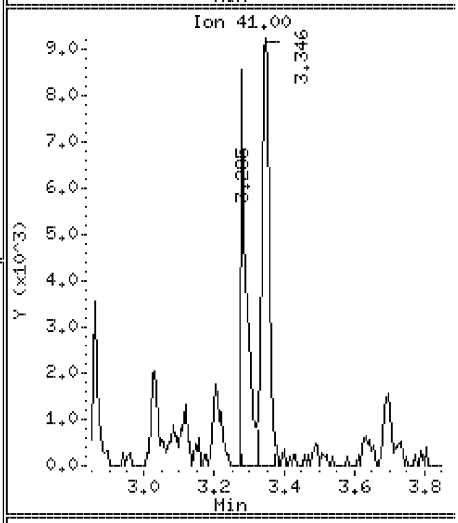


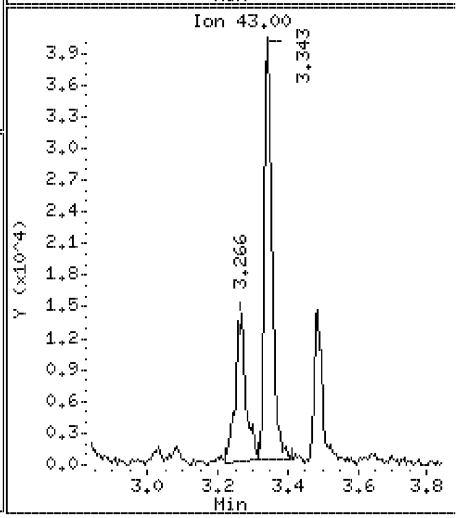












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

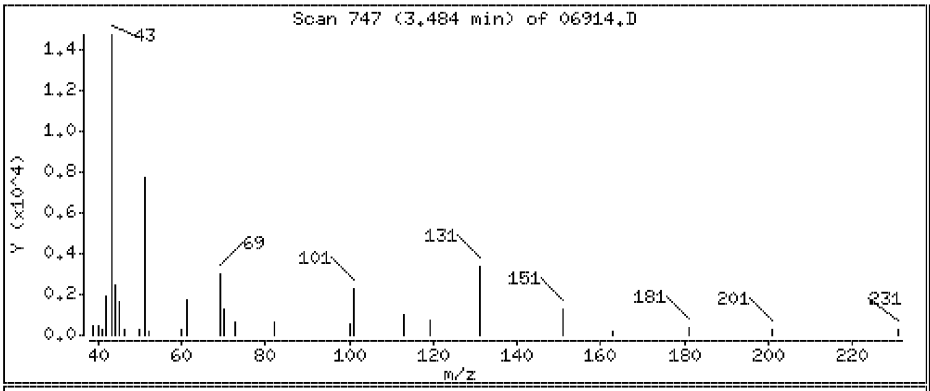
Operator: DR1

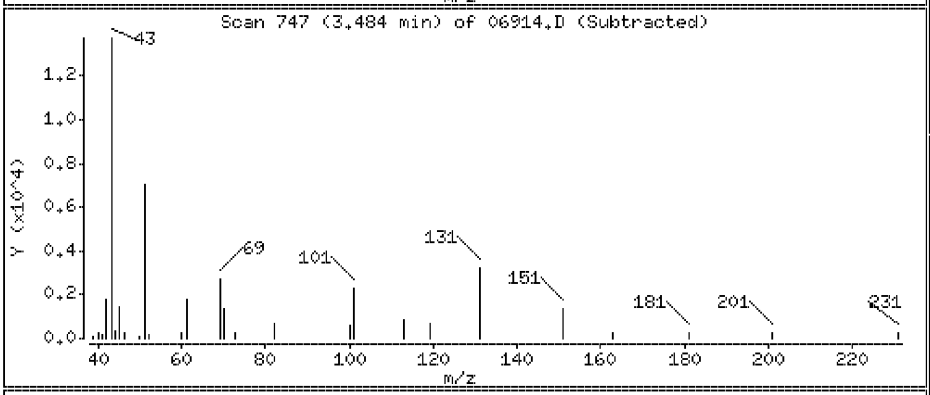
Column phase: J&W DB-5

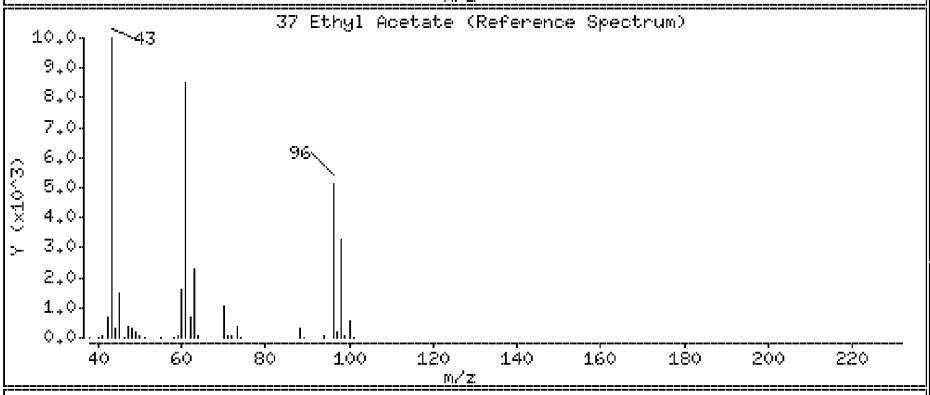
Column diameter: 0.32

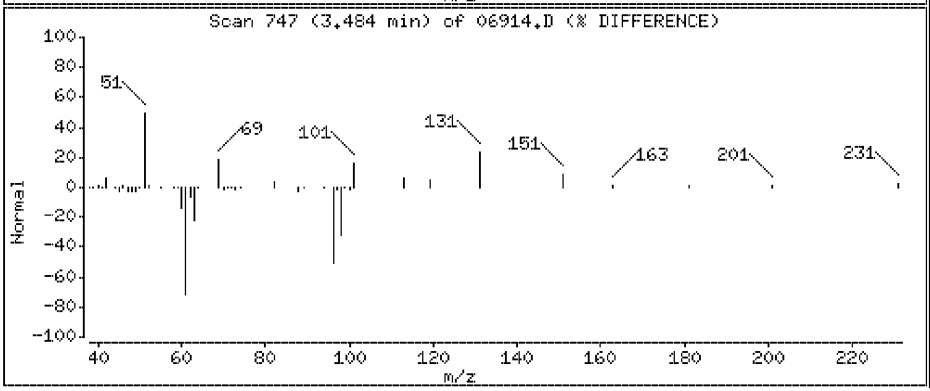
37 Ethyl Acetate

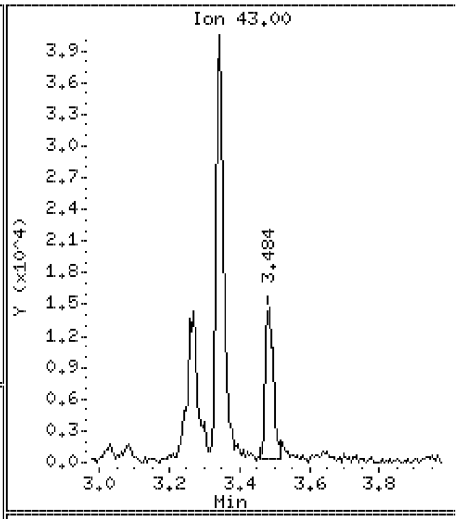
Concentration: 0.569 ppbv

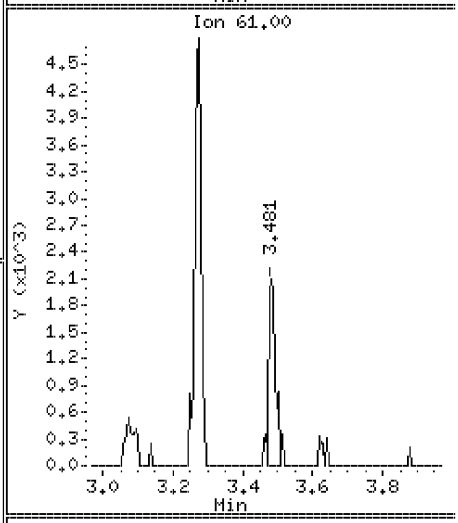


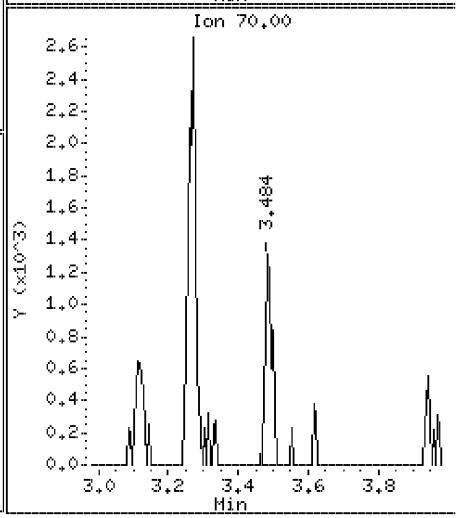












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

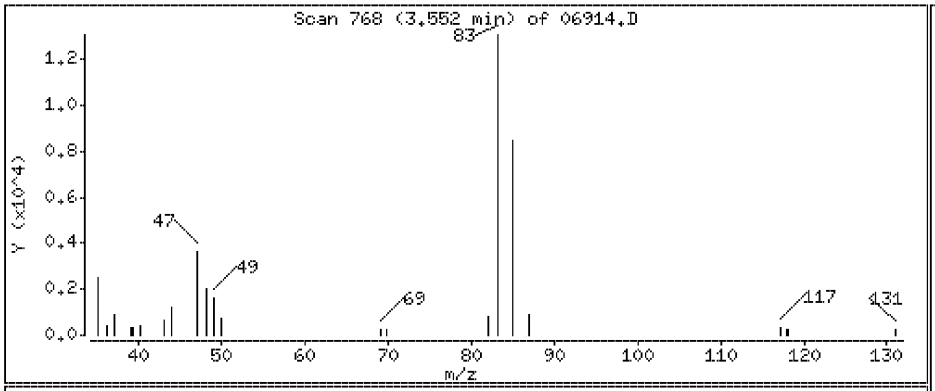
Operator: DR1

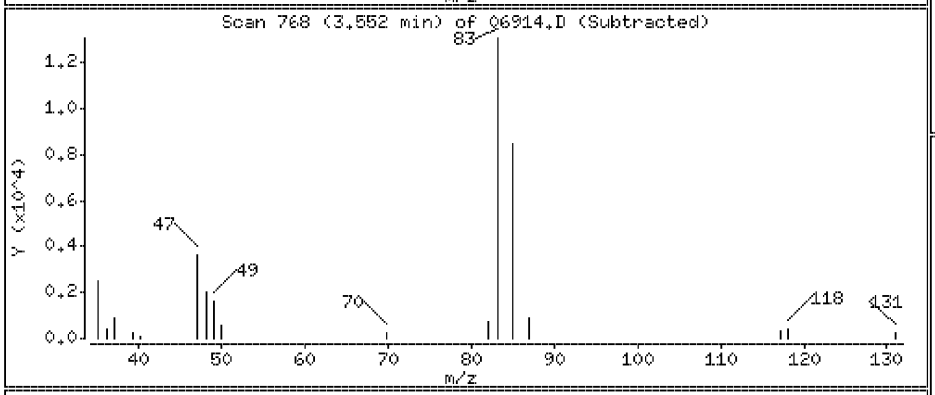
Column phase: J&W DB-5

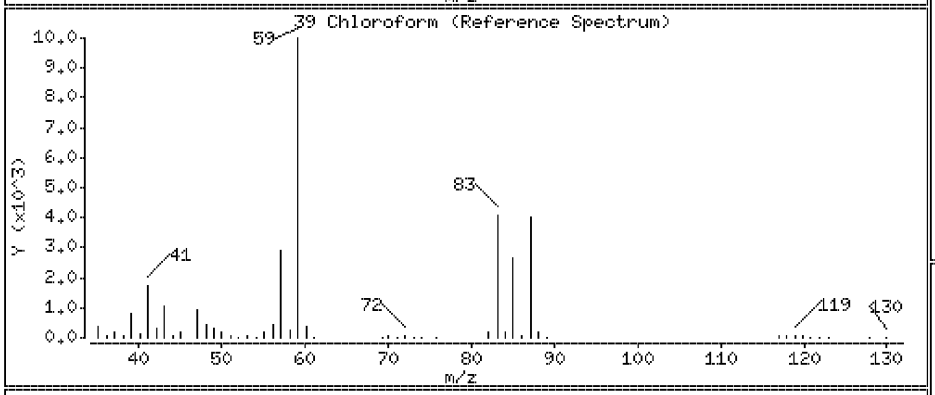
Column diameter: 0.32

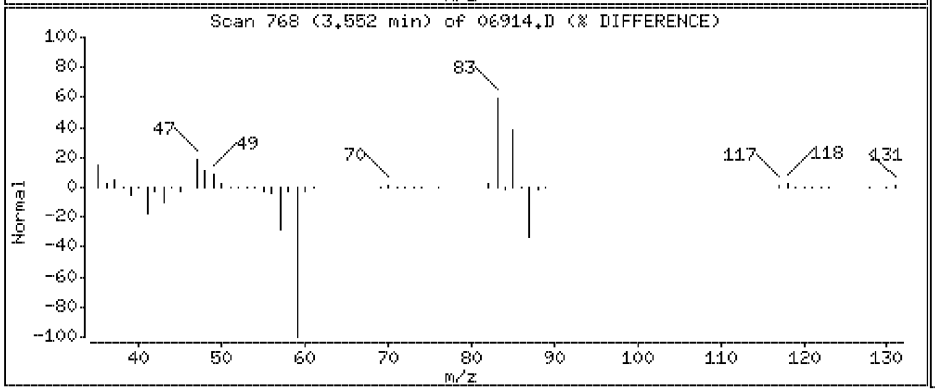
39 Chloroform

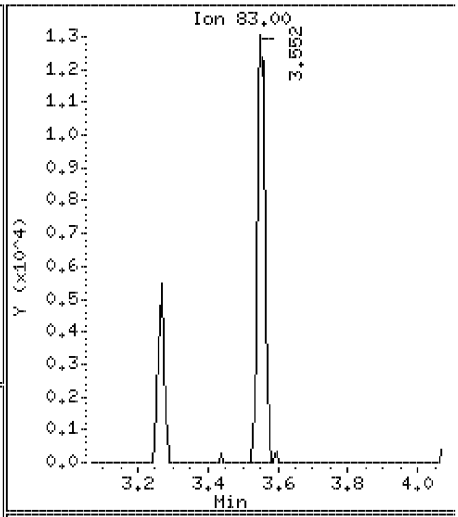
Concentration: 0.496 ppbv

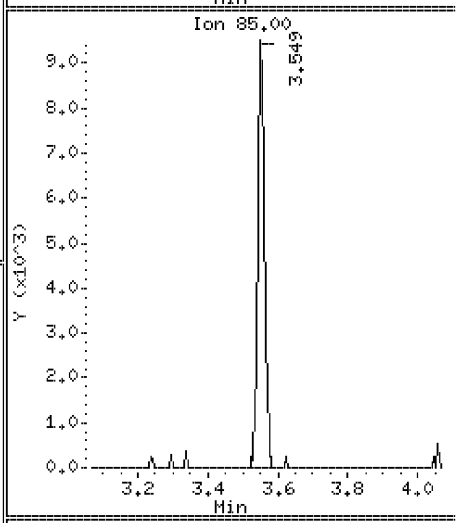


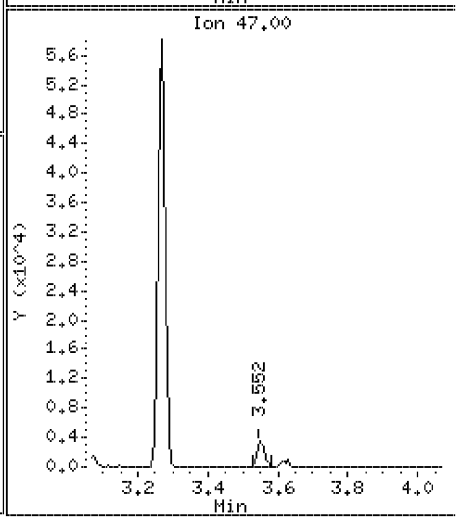












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

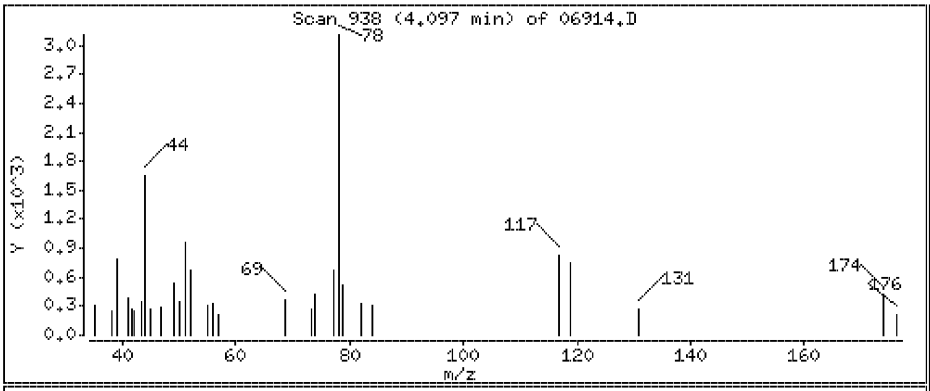
Operator: DR1

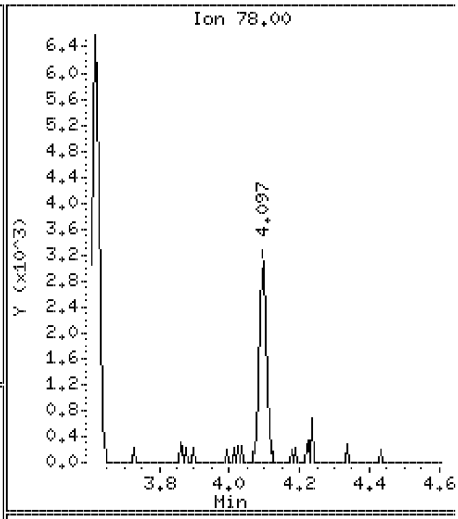
Column phase: J&W DB-5

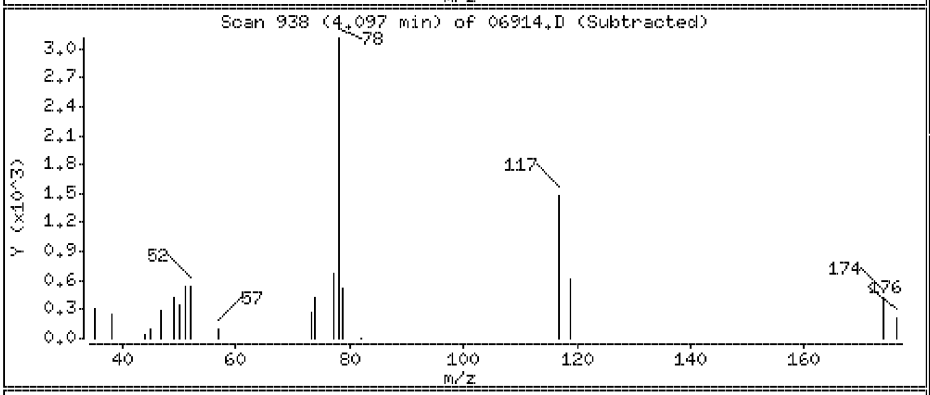
Column diameter: 0.32

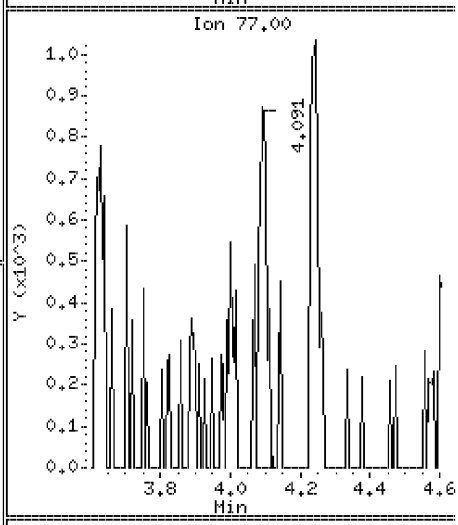
43 Benzene

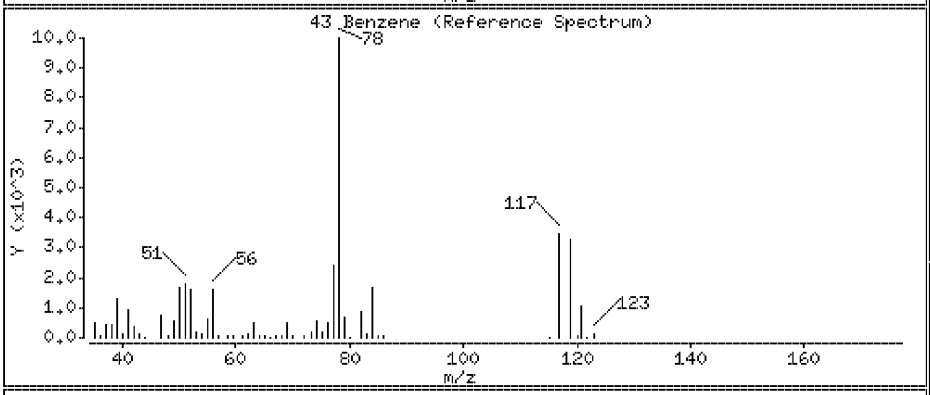
Concentration: 0.0906 ppbv

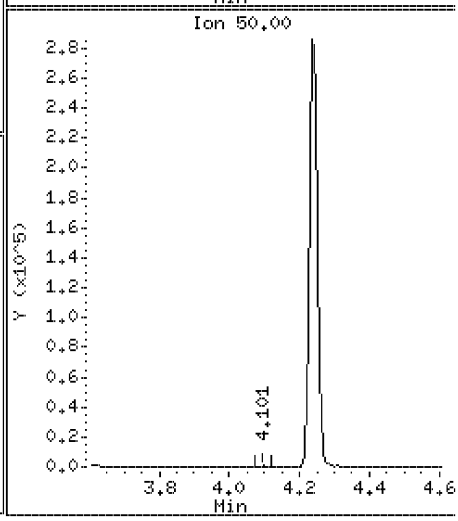


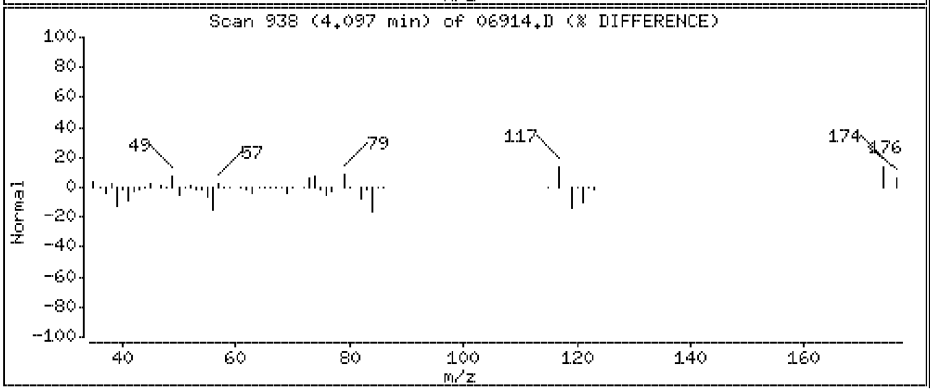












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

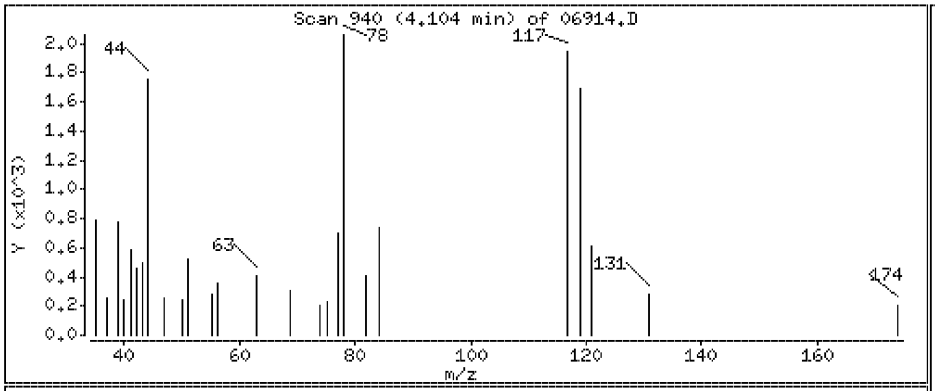
Operator: DR1

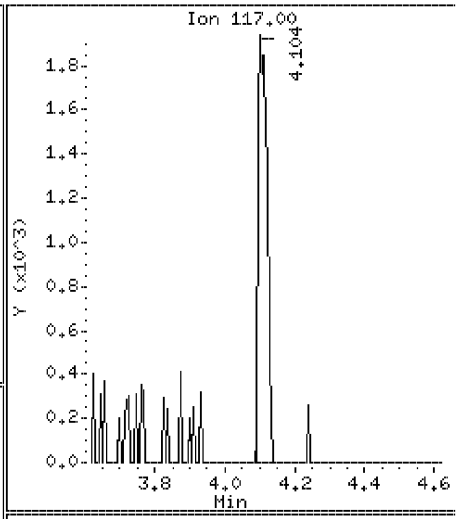
Column phase: J&W DB-5

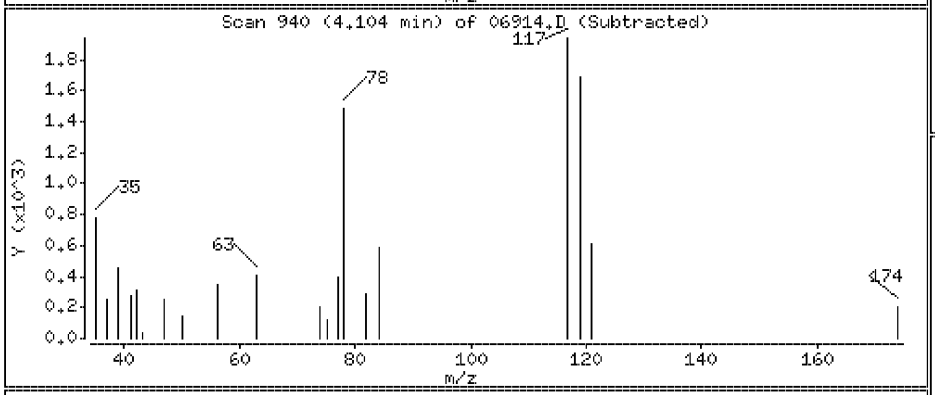
Column diameter: 0.32

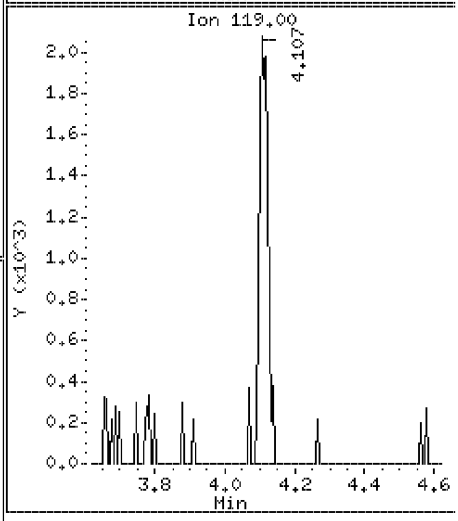
45 Carbon tetrachloride

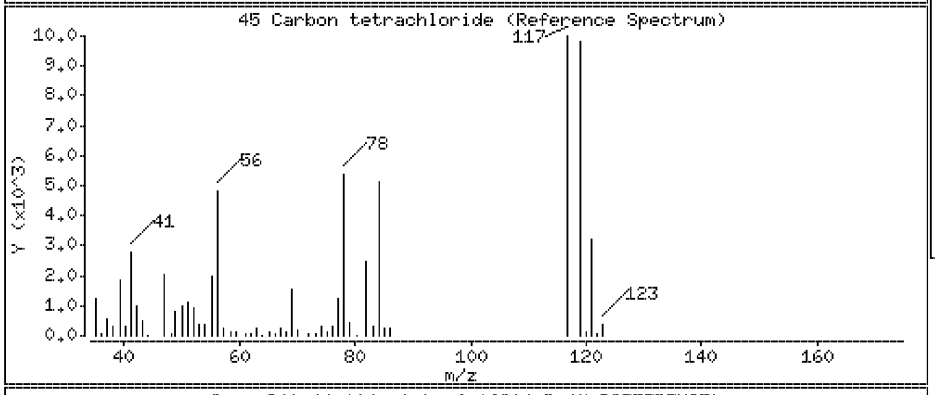
Concentration: 0.0896 ppbv

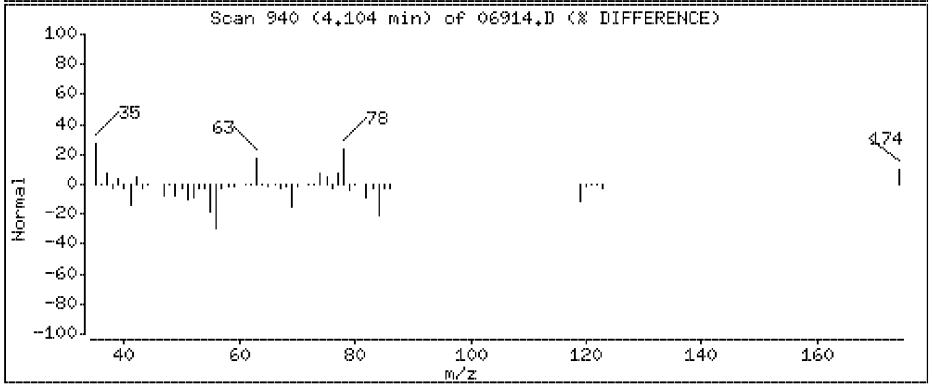












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

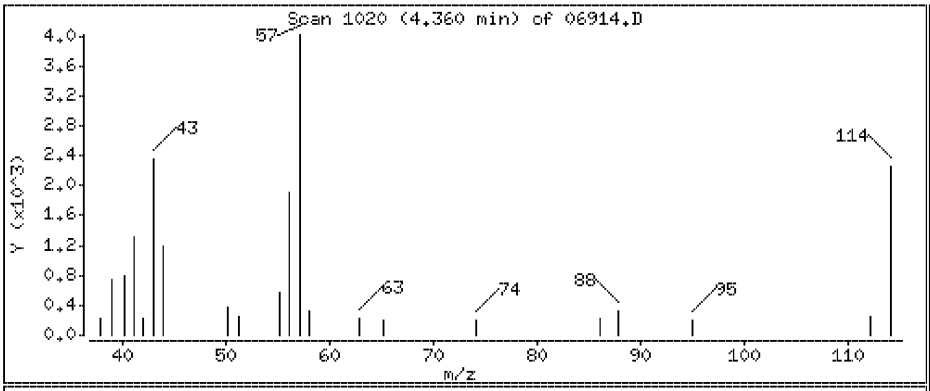
Operator: DR1

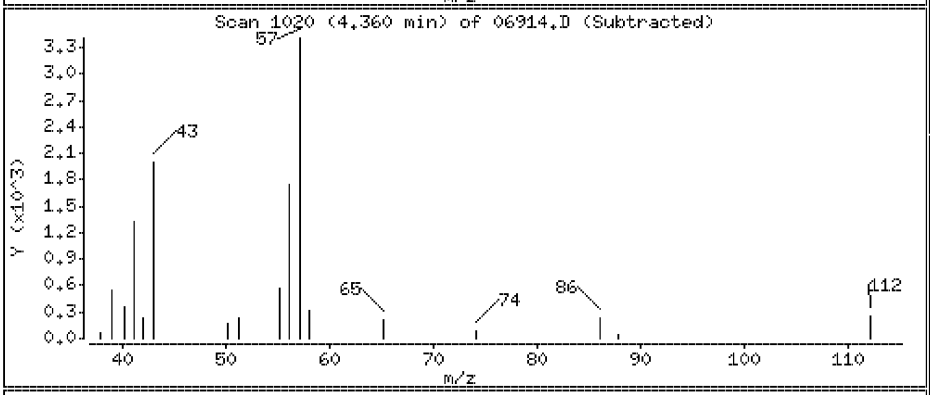
Column phase: J&W DB-5

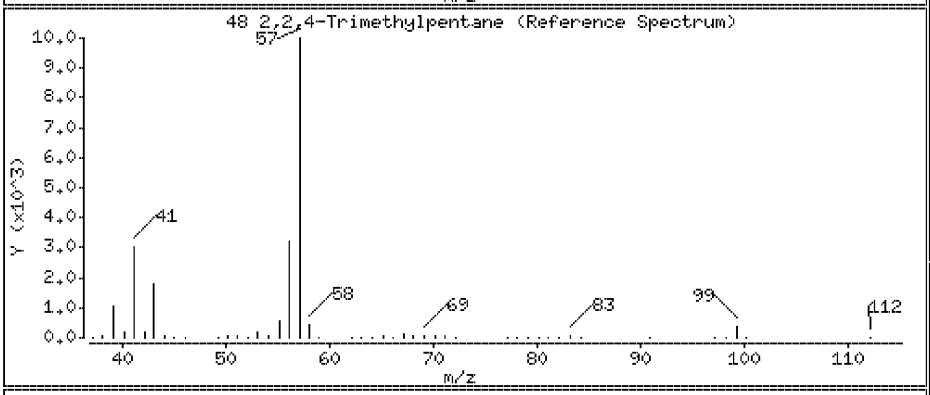
Column diameter: 0.32

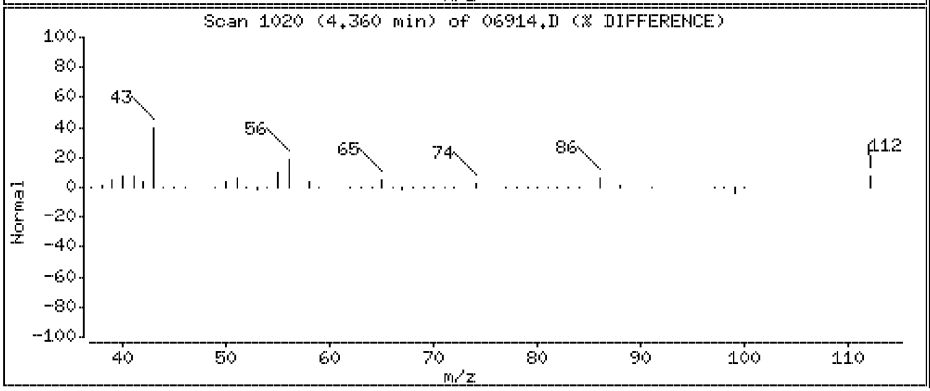
48 2,2,4-Trimethylpentane

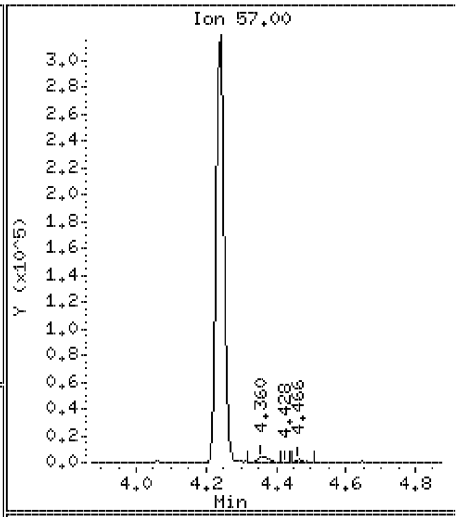
Concentration: 278 ppbv

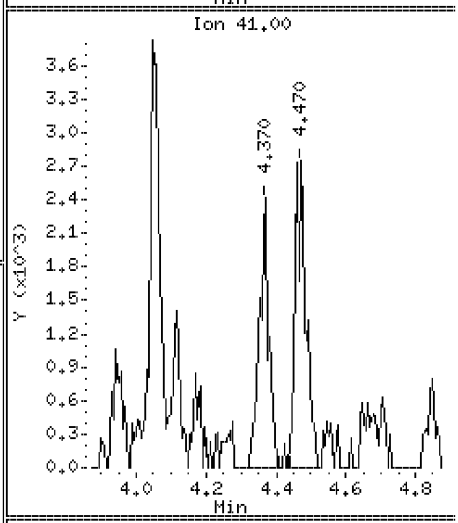


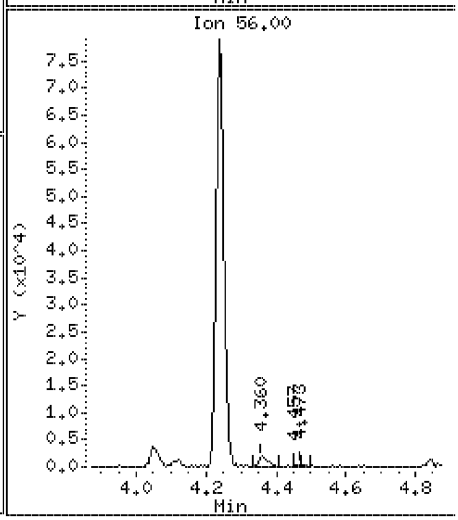












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

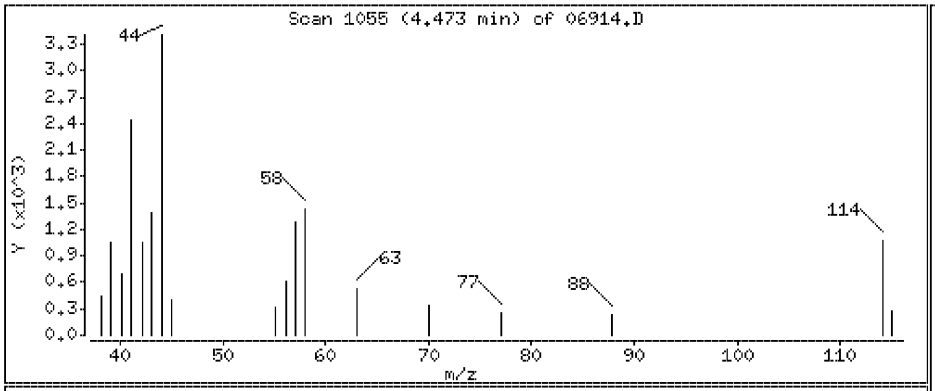
Operator: DR1

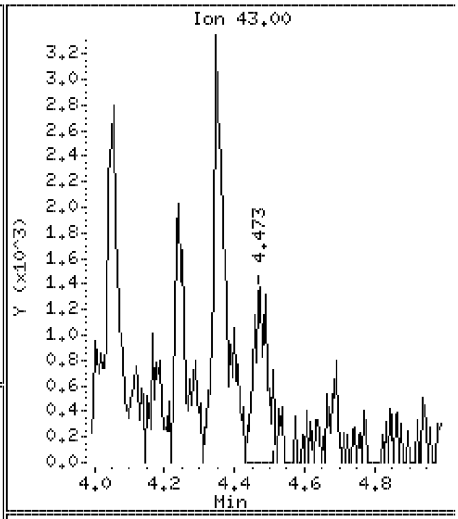
Column phase: J&W DB-5

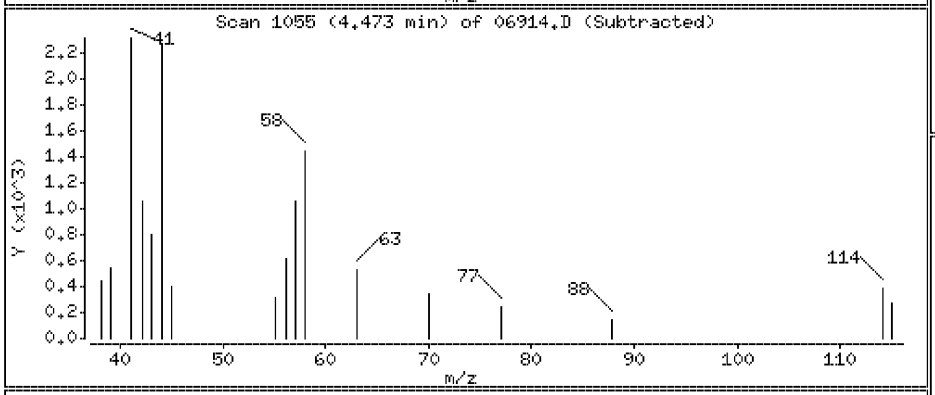
Column diameter: 0.32

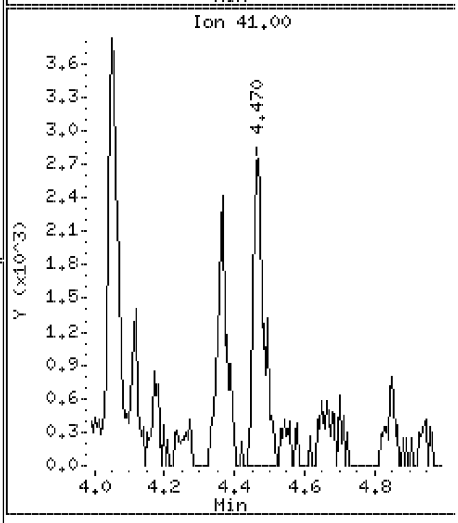
49 Heptane

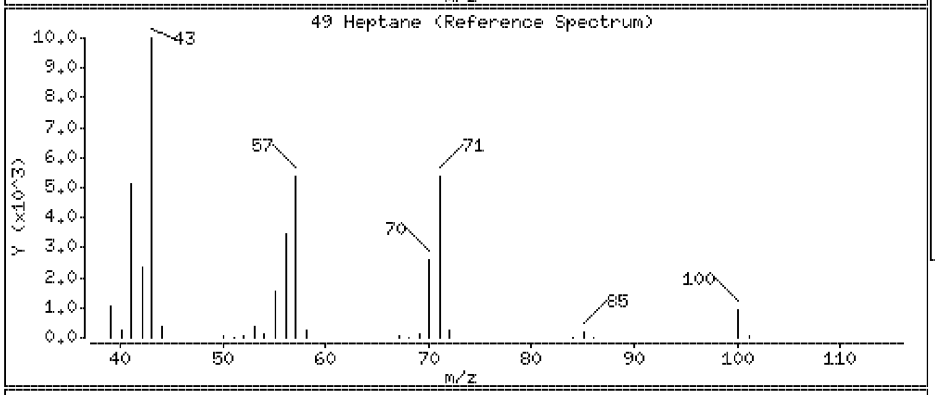
Concentration: 0.0987 ppbv

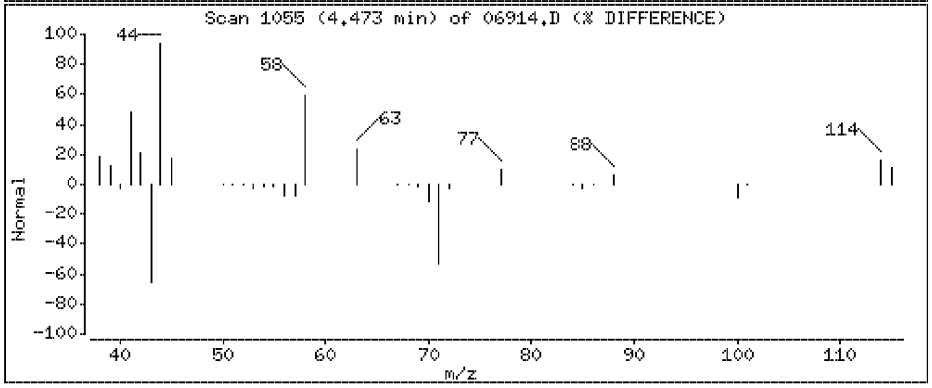












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

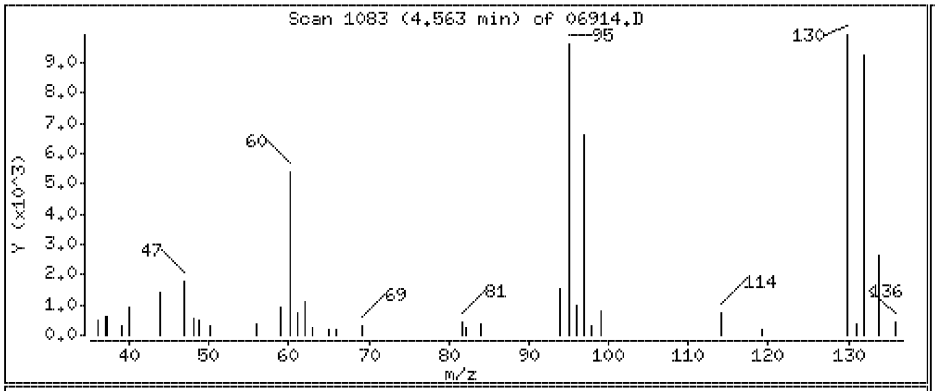
Operator: DR1

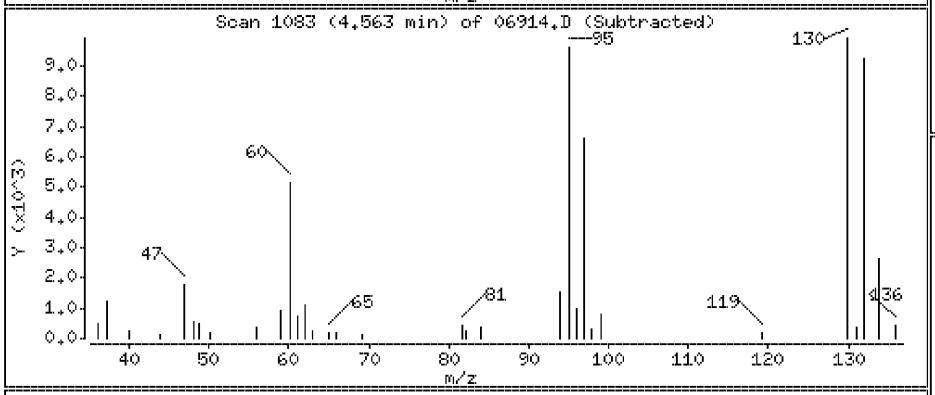
Column phase: J&W DB-5

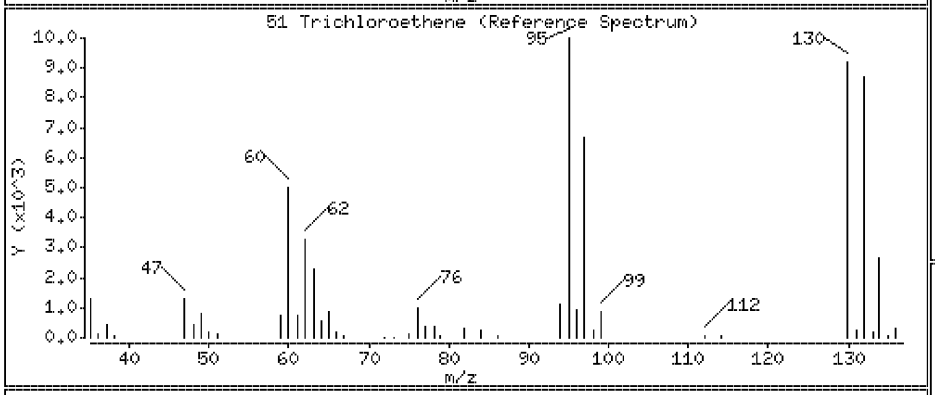
Column diameter: 0.32

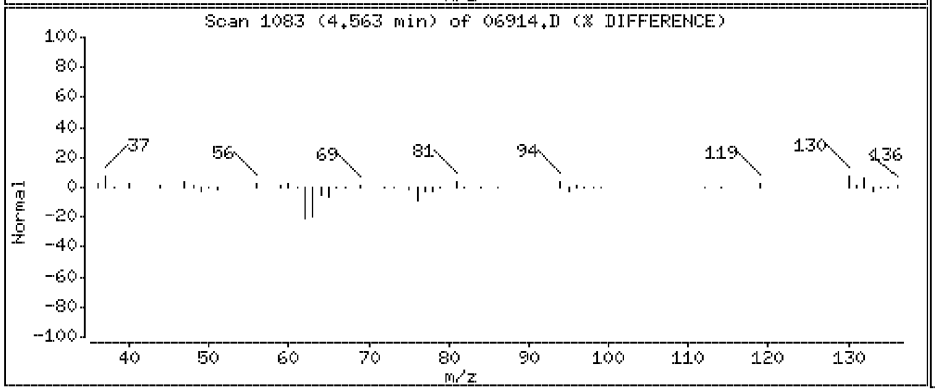
51 Trichloroethene

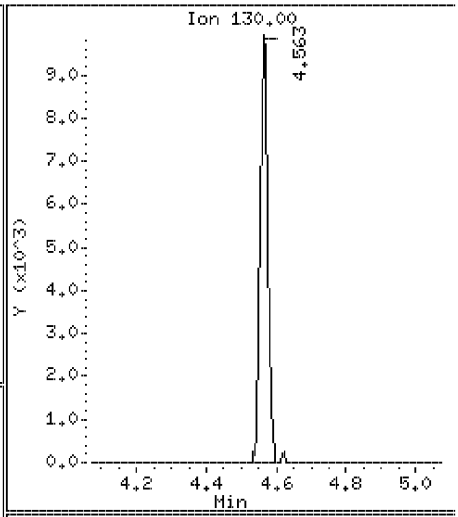
Concentration: 0.617 ppbv

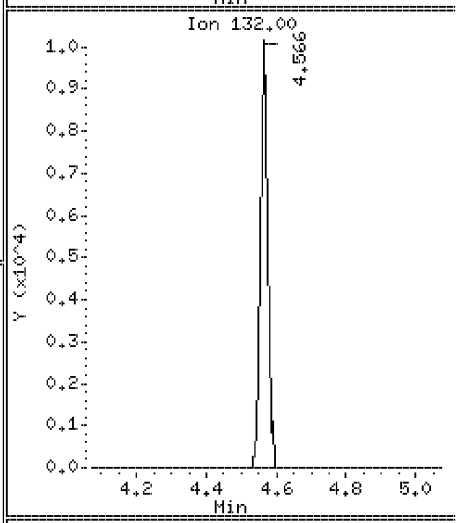


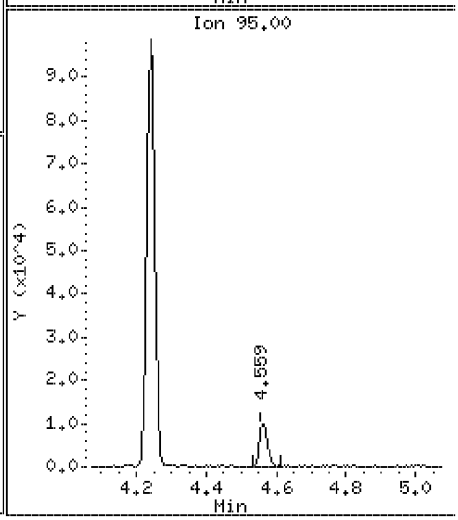












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

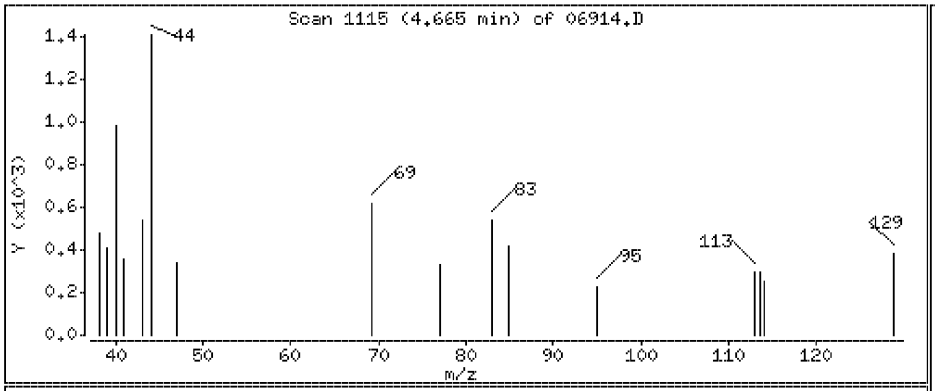
Operator: DR1

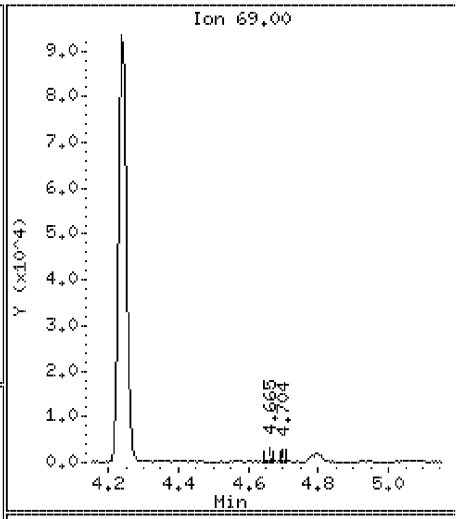
Column phase: J&W DB-5

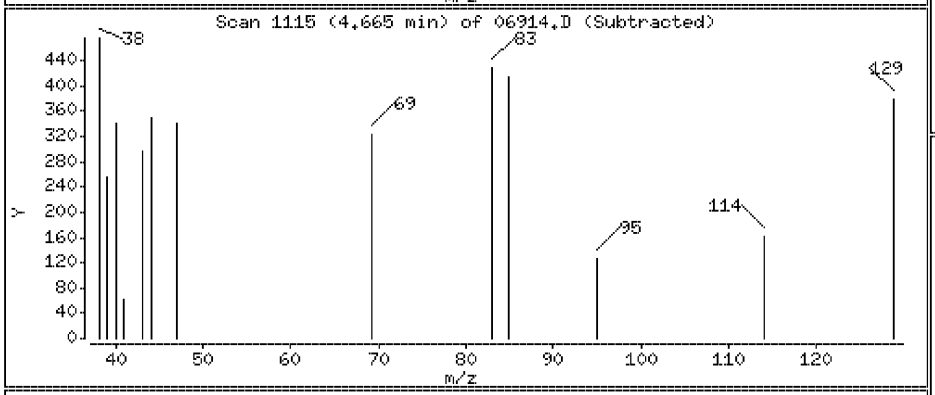
Column diameter: 0.32

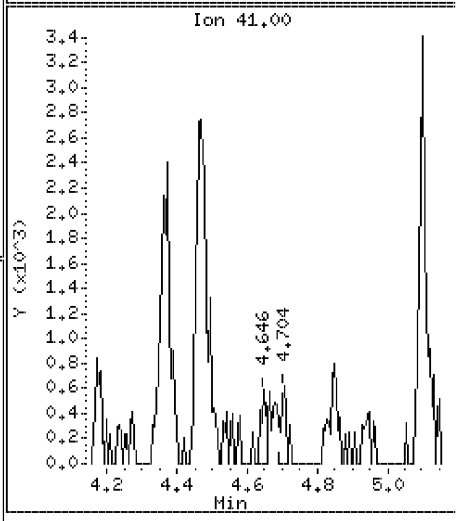
52 Methyl methacrylate

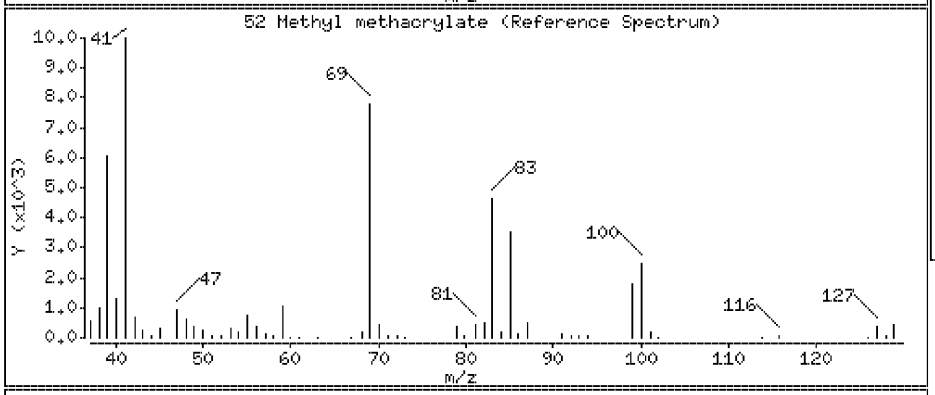
Concentration: 0.0238 ppbv

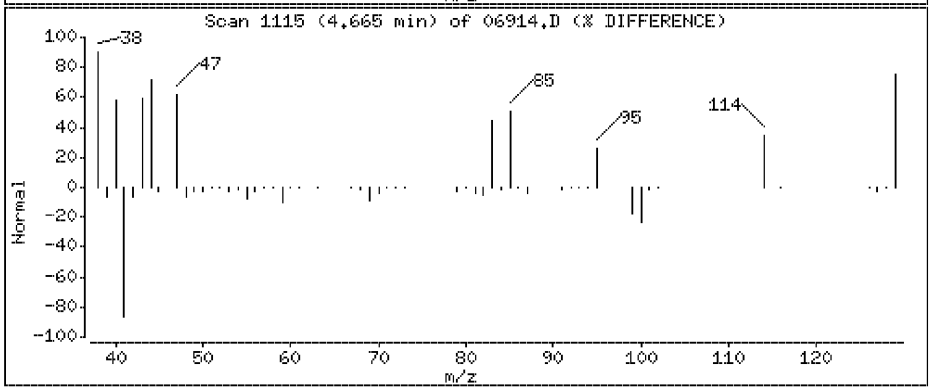












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

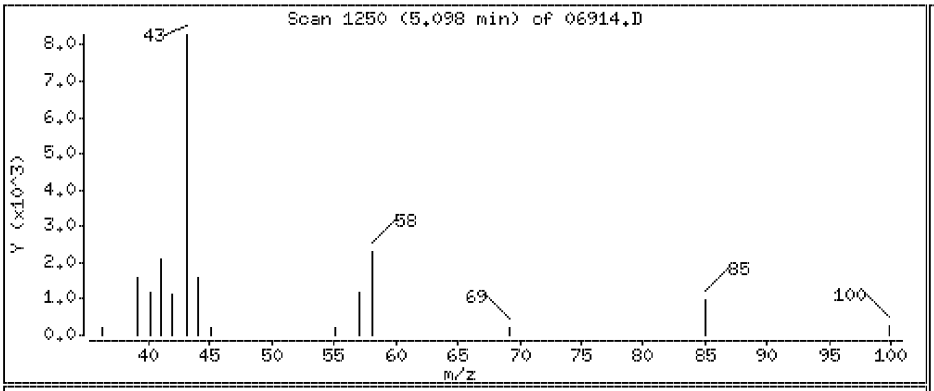
Operator: DR1

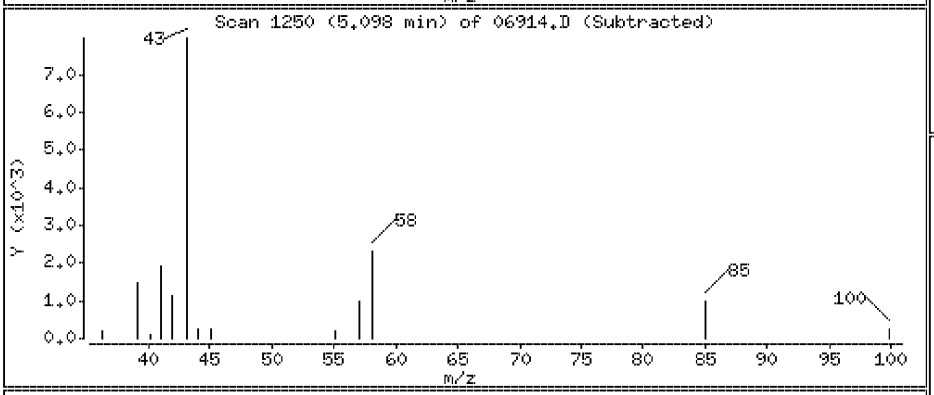
Column phase: J&W DB-5

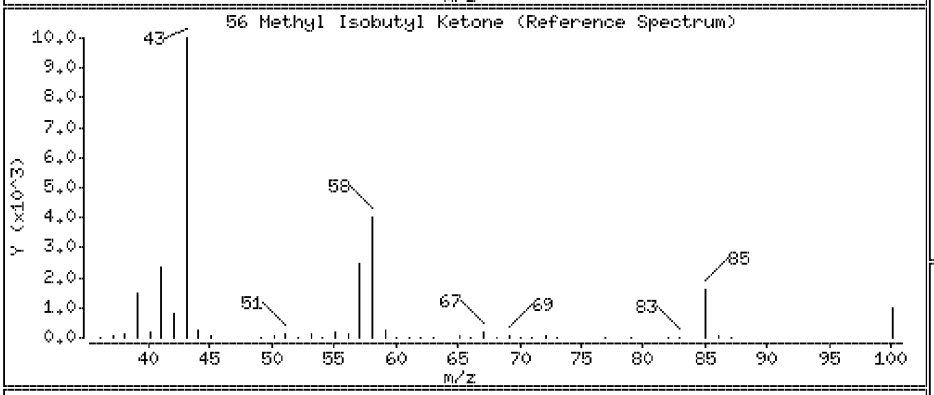
Column diameter: 0.32

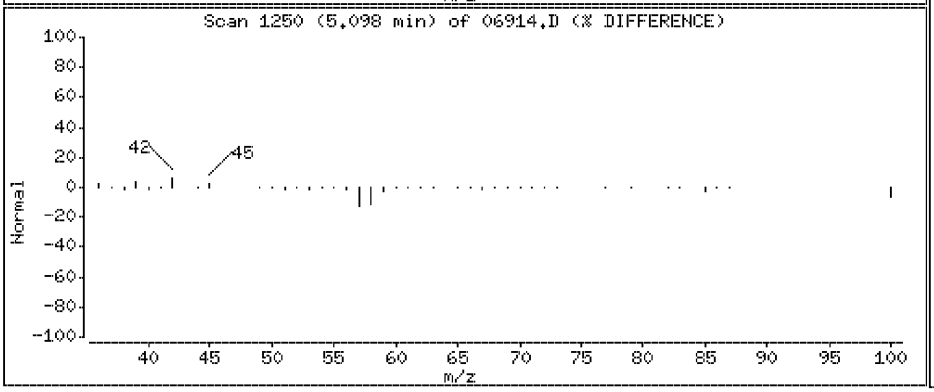
56 Methyl Isobutyl Ketone

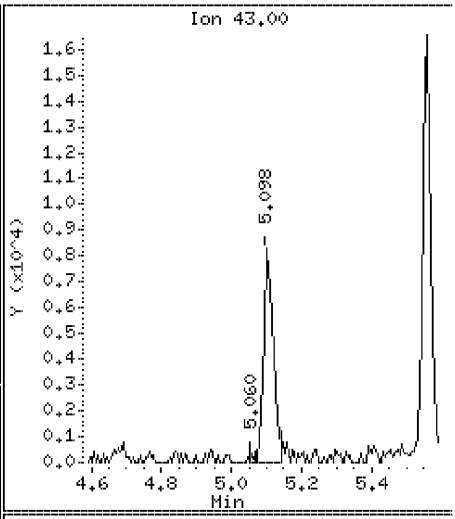
Concentration: 0.211 ppbv

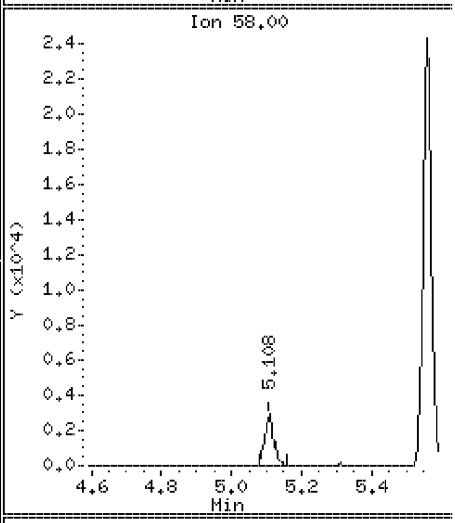


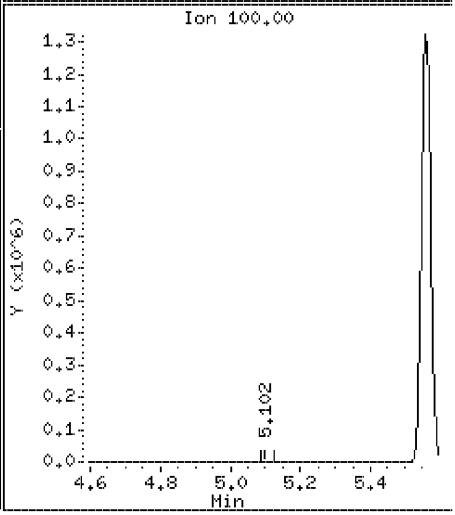












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

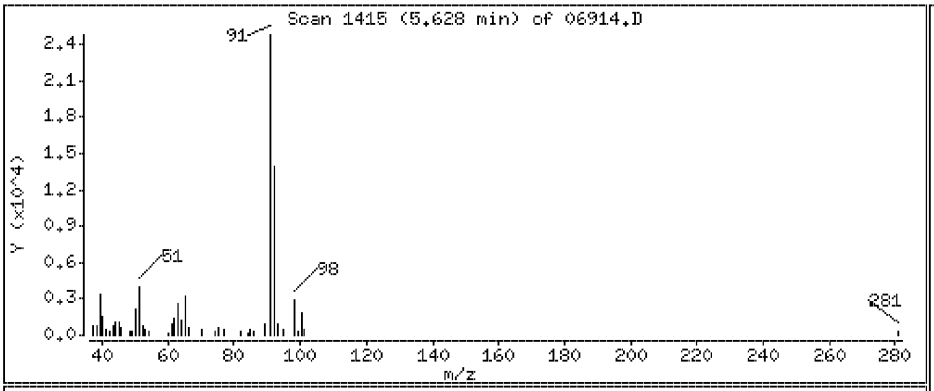
Operator: DR1

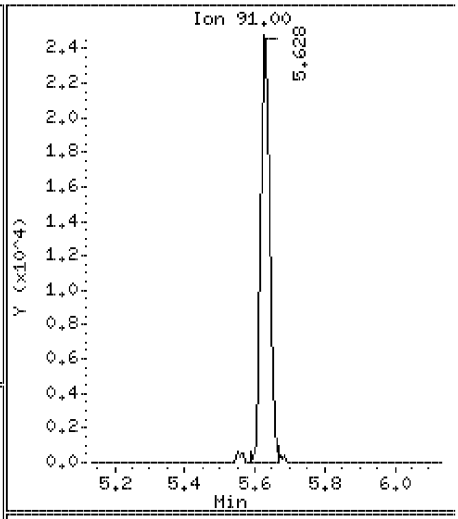
Column phase: J&W DB-5

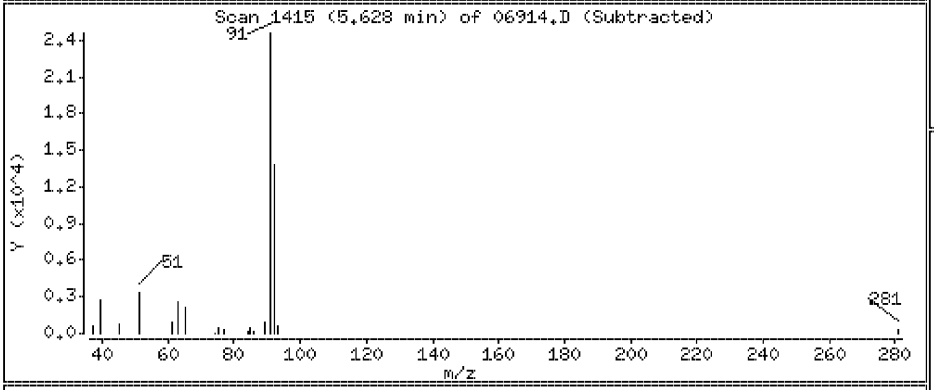
Column diameter: 0.32

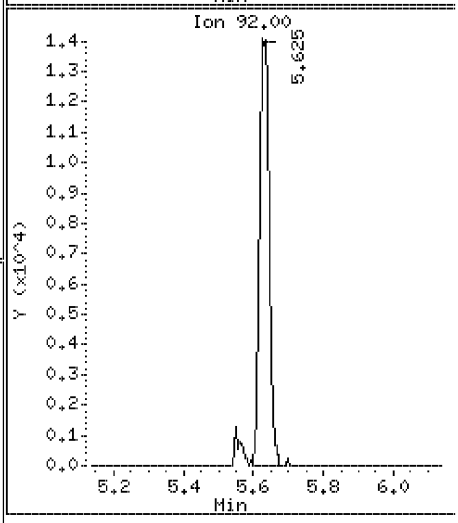
60 Toluene

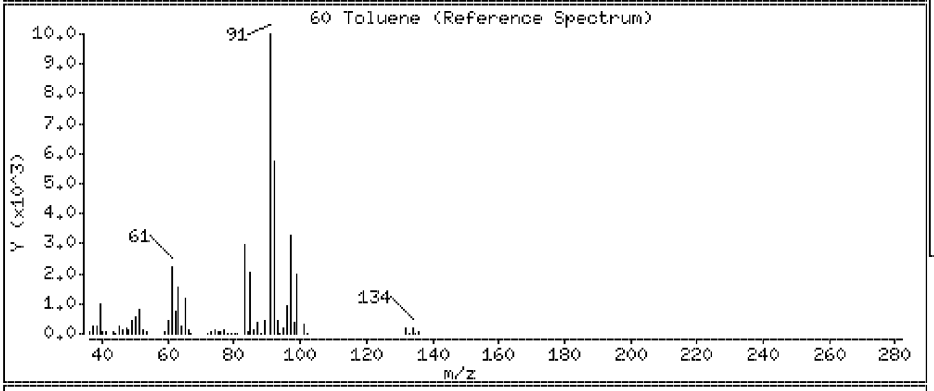
Concentration: 0.735 ppbv

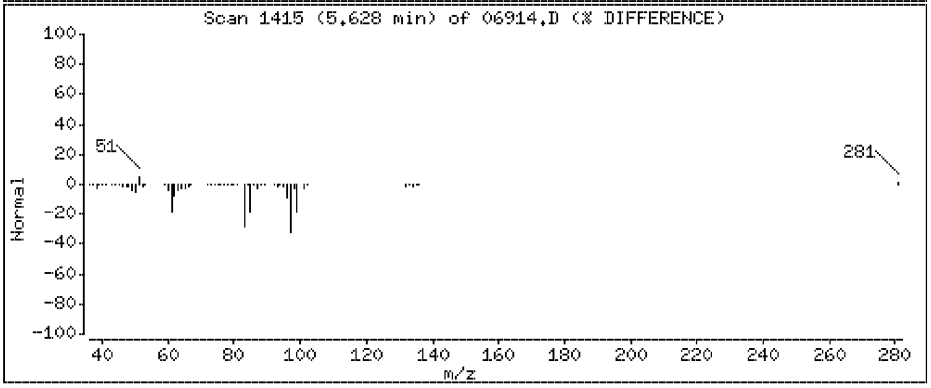












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

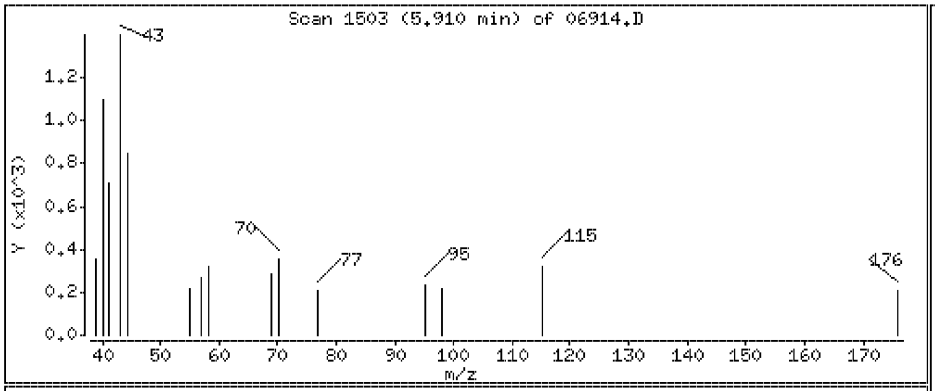
Operator: DR1

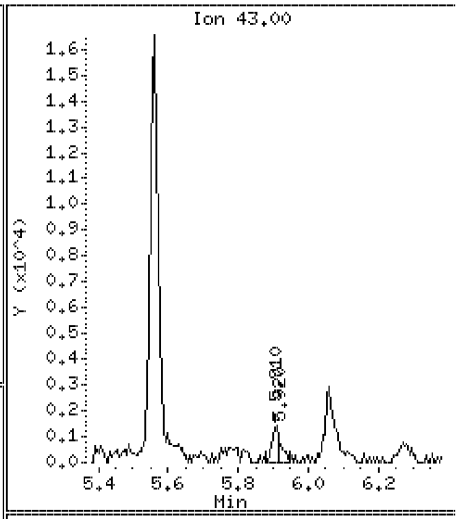
Column phase: J&W DB-5

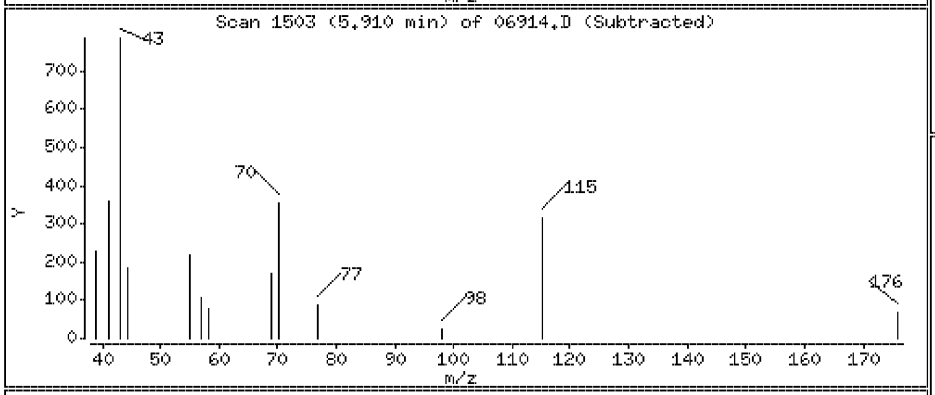
Column diameter: 0.32

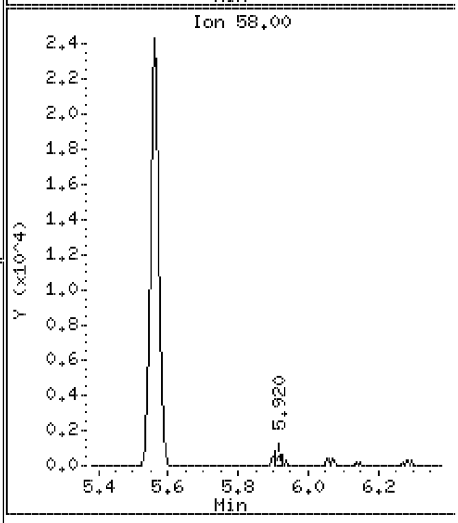
62 Methyl Butyl Ketone

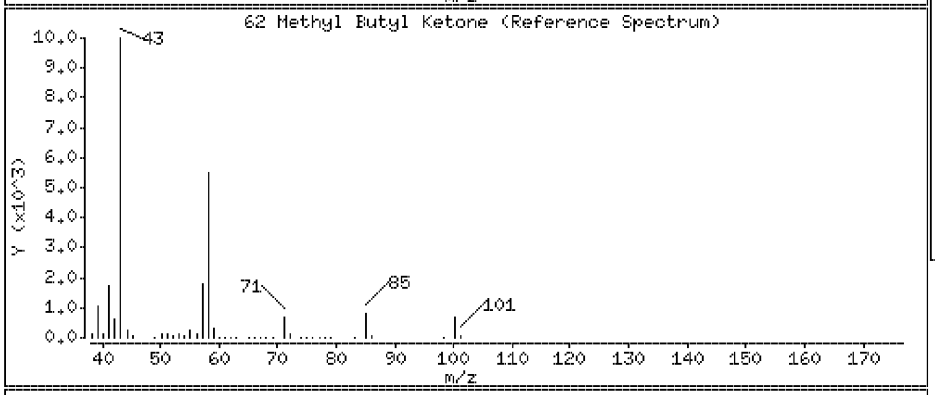
Concentration: 0.0428 ppbv

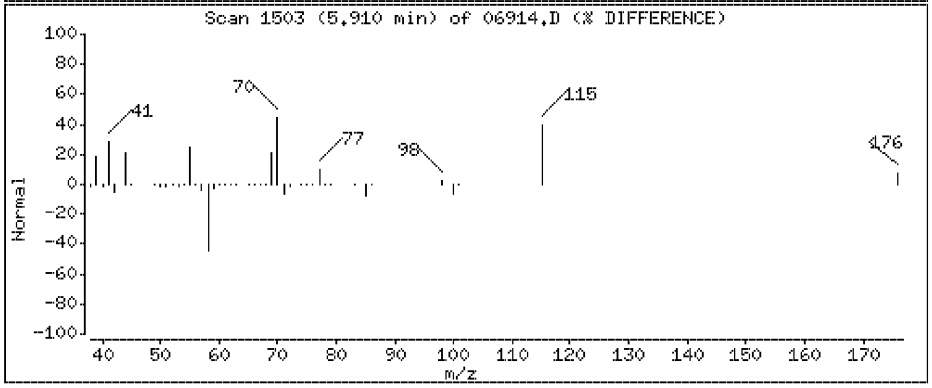












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

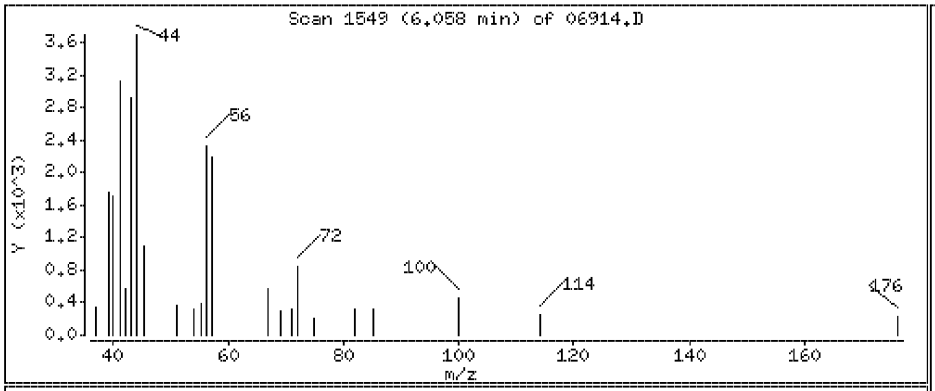
Operator: DR1

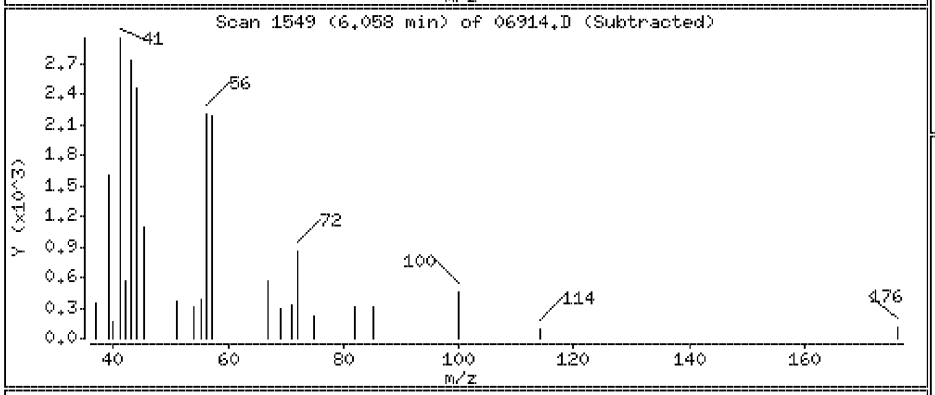
Column phase: J&W DB-5

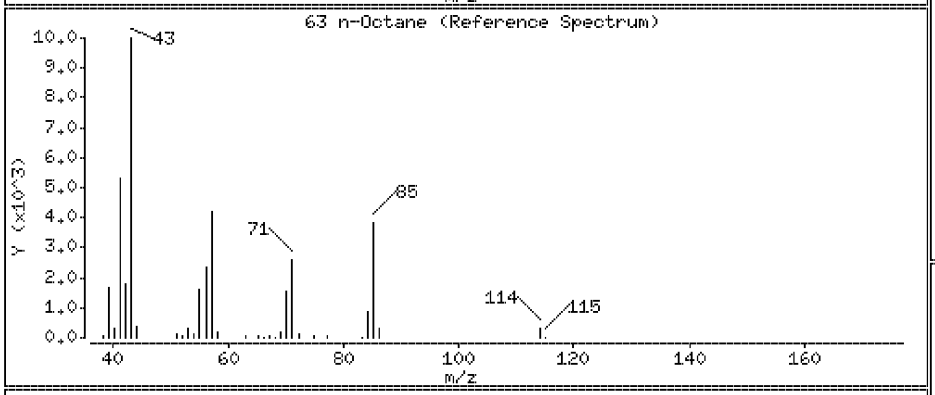
Column diameter: 0.32

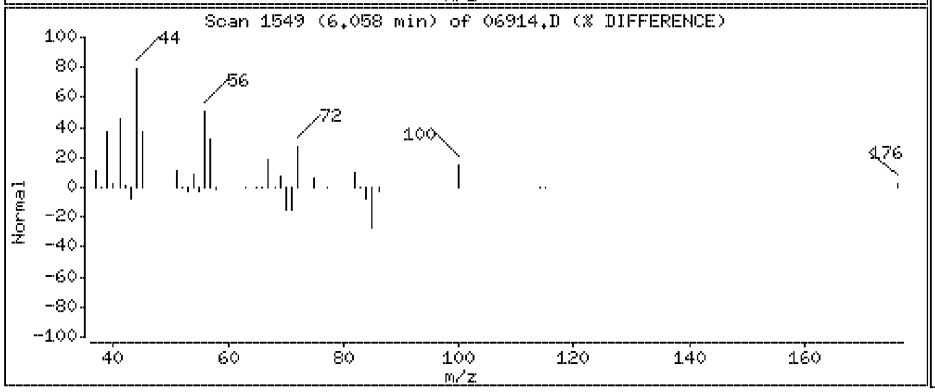
63 n-Octane

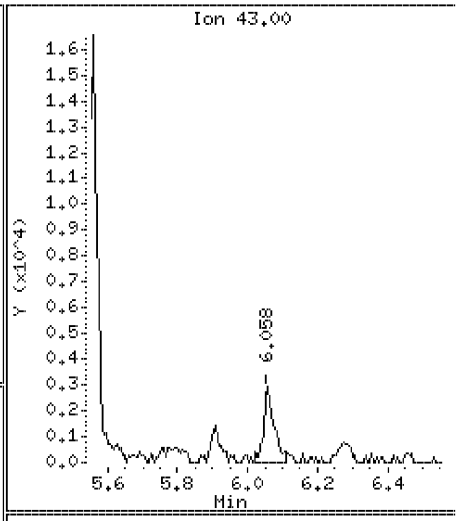
Concentration: 0.155 ppbv

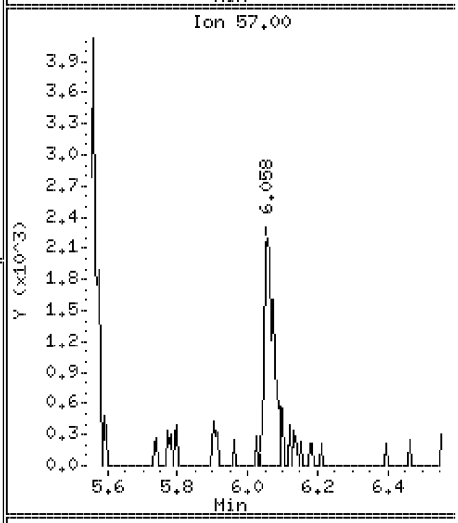


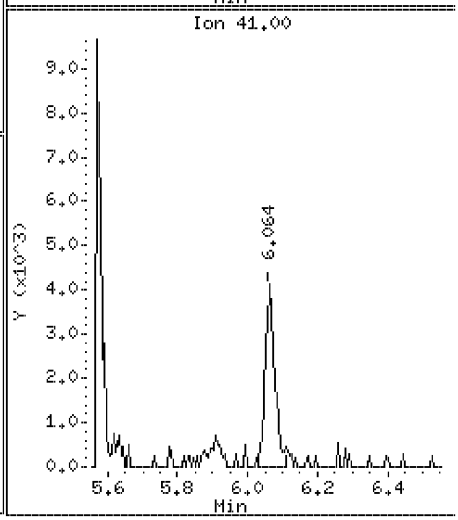












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

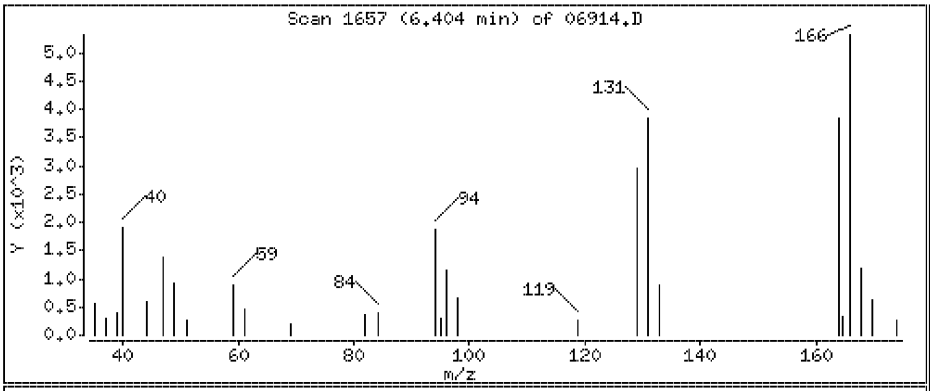
Operator: DR1

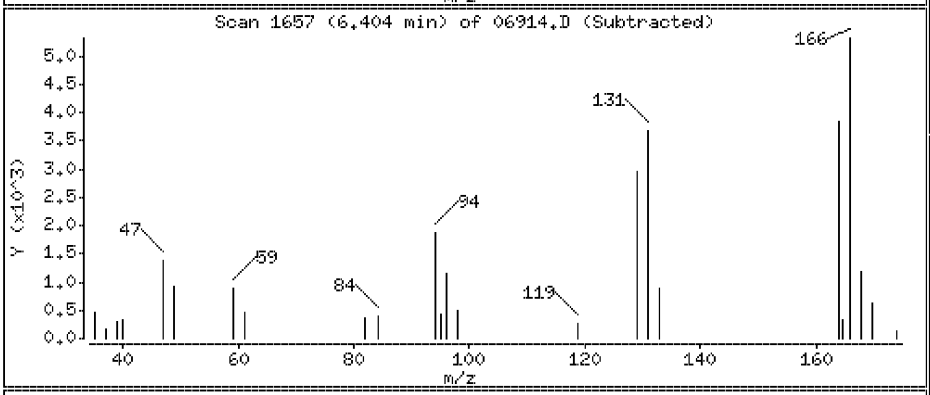
Column phase: J&W DB-5

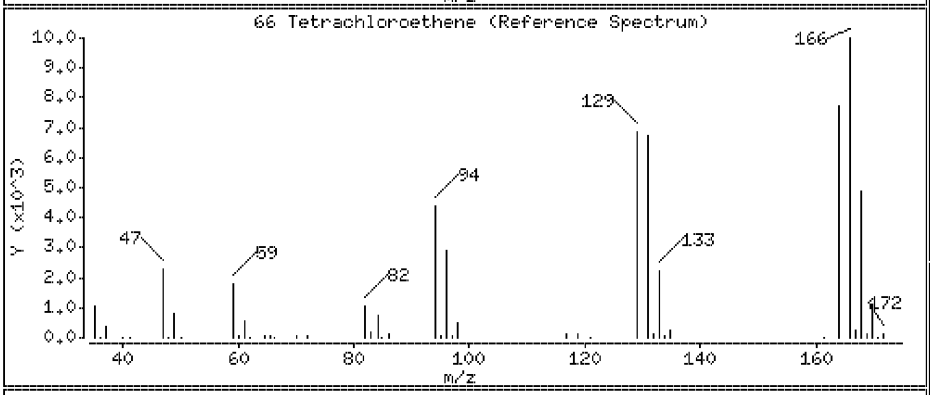
Column diameter: 0.32

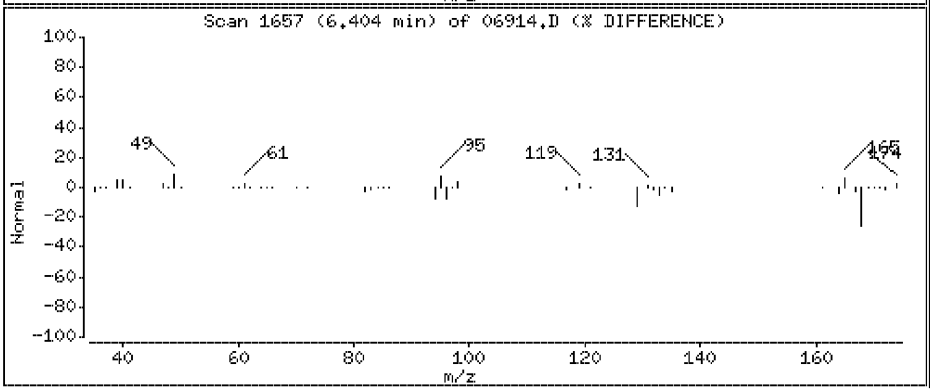
66 Tetrachloroethene

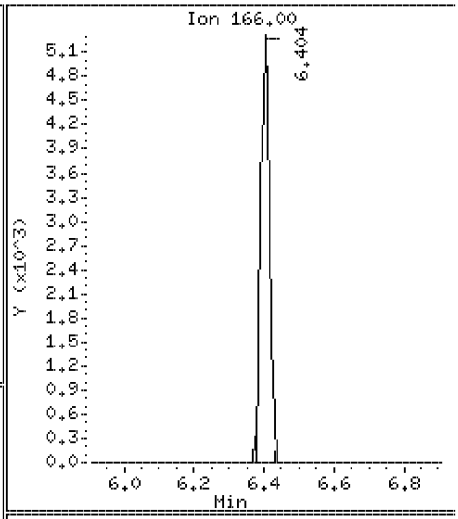
Concentration: 0.260 ppbv

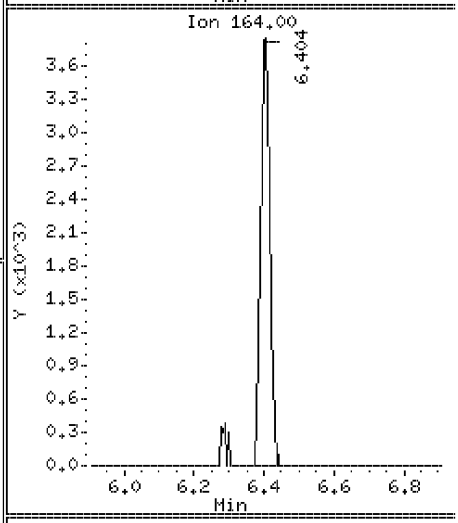


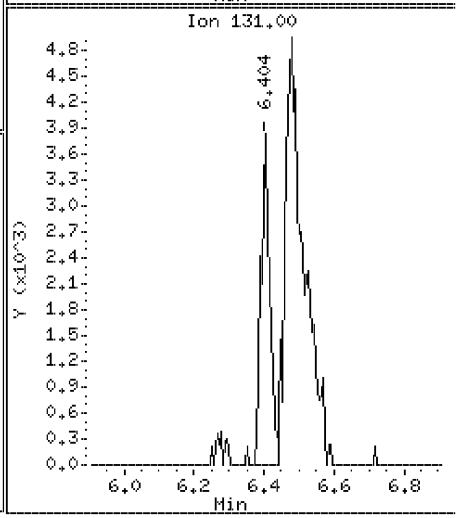












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

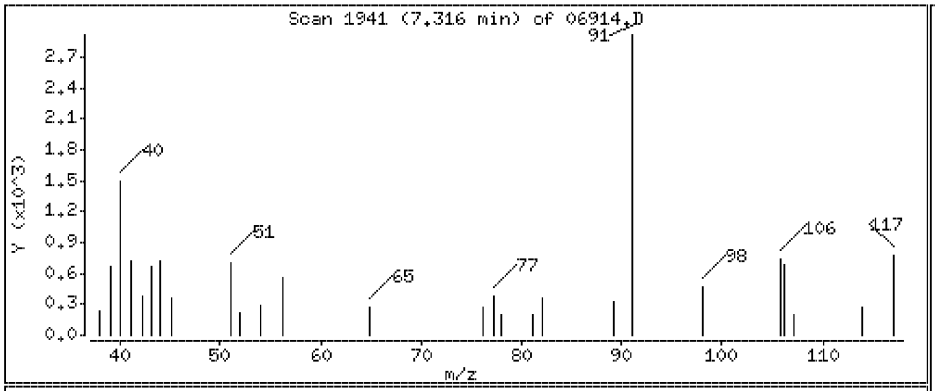
Operator: DR1

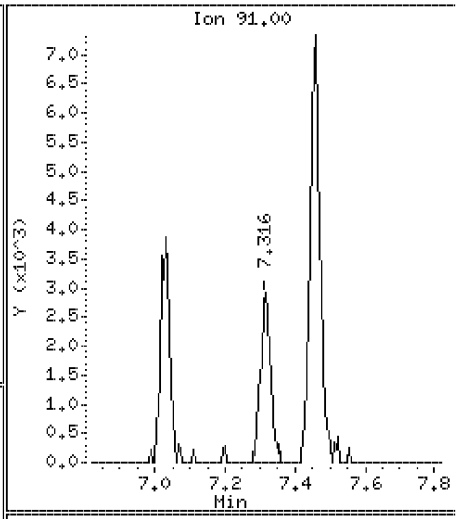
Column phase: J&W DB-5

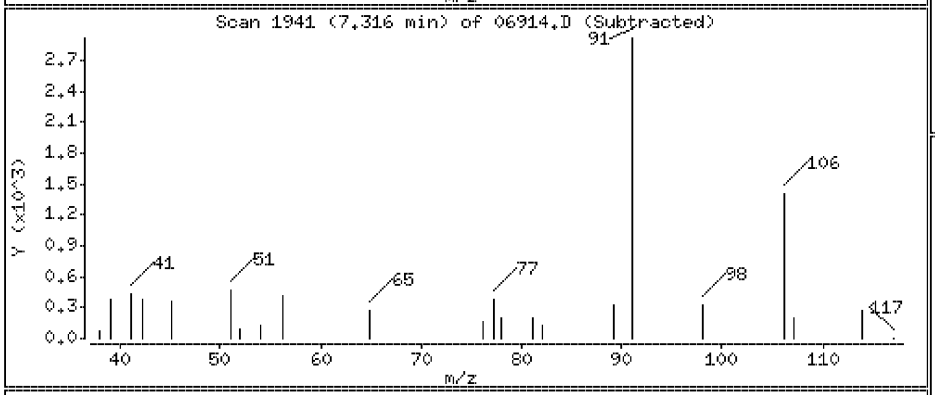
Column diameter: 0.32

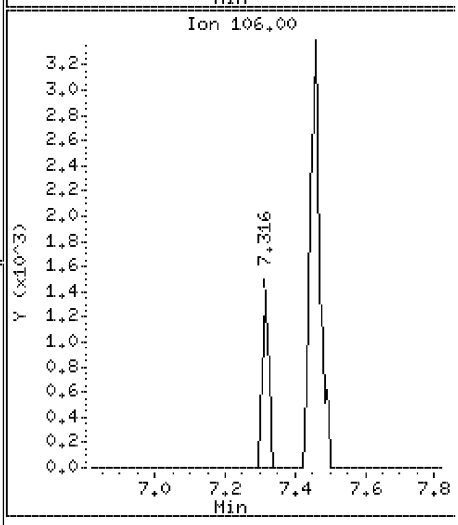
69 Ethyl Benzene

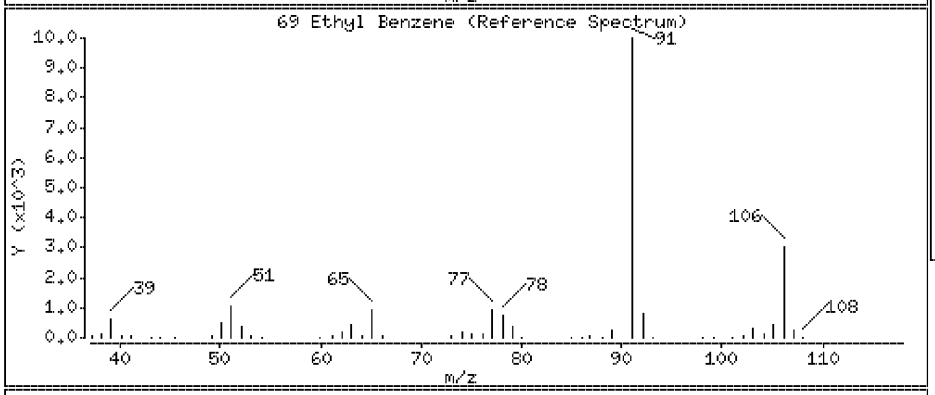
Concentration: 0.0846 ppbv

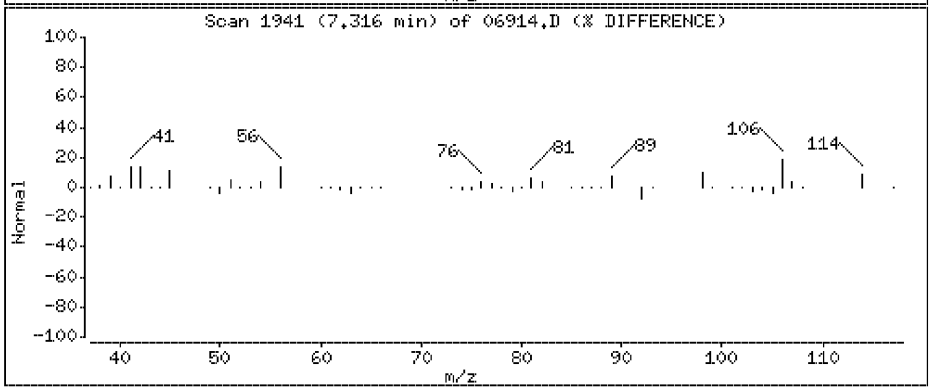












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

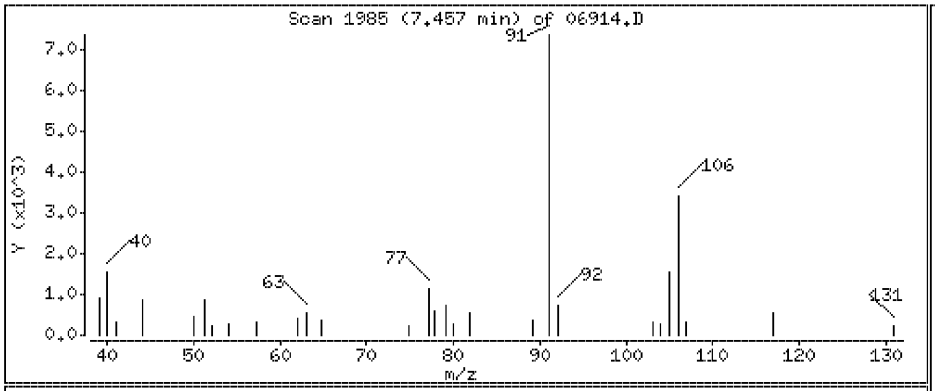
Operator: DR1

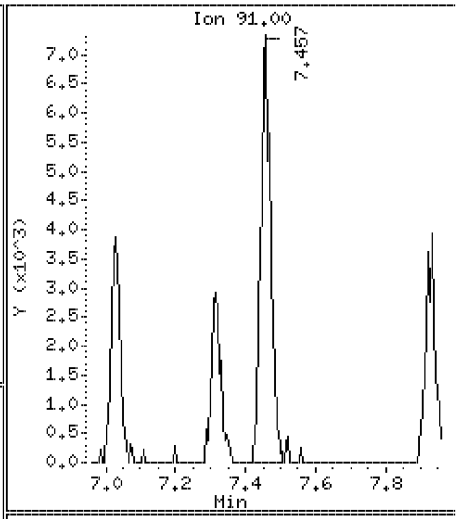
Column phase: J&W DB-5

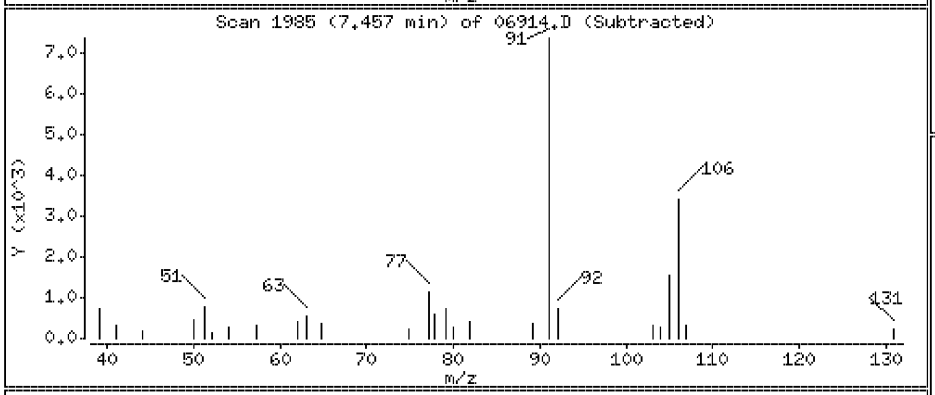
Column diameter: 0.32

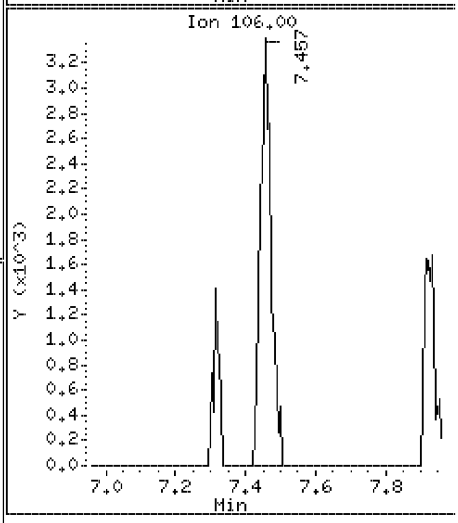
70 m&p-Xylene

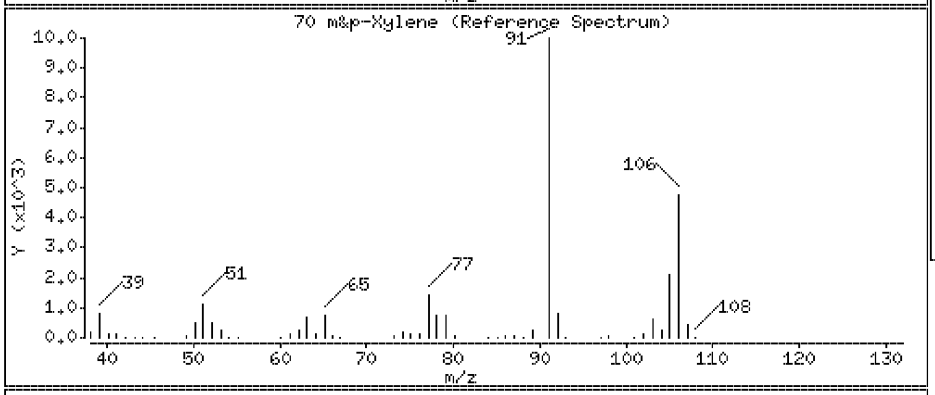
Concentration: 0.0469 ppbv

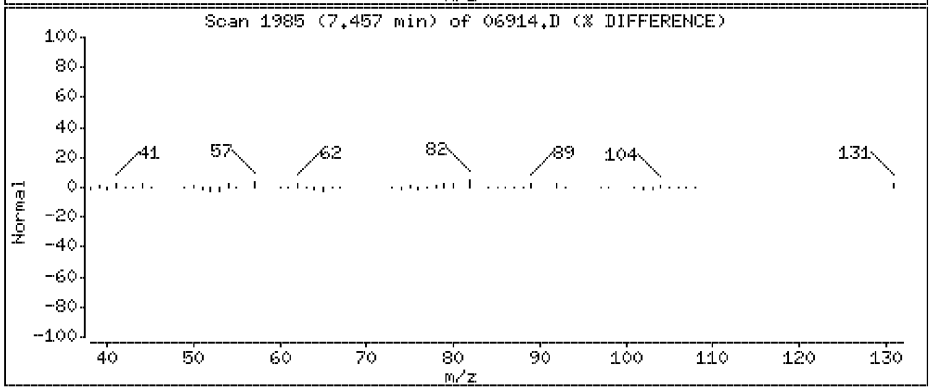












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

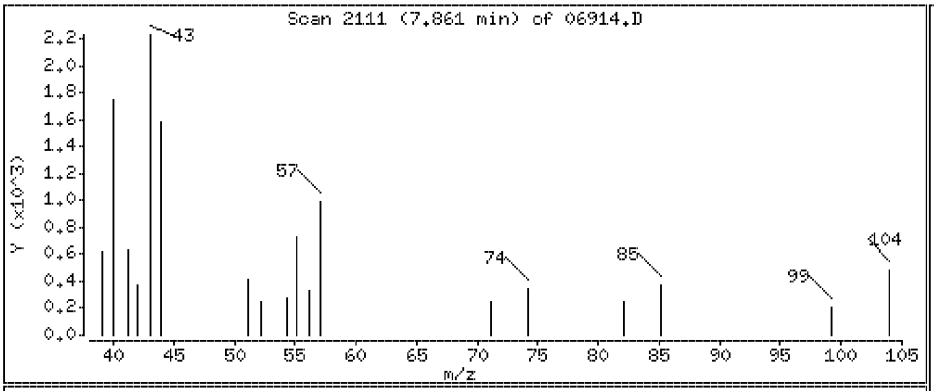
Operator: DR1

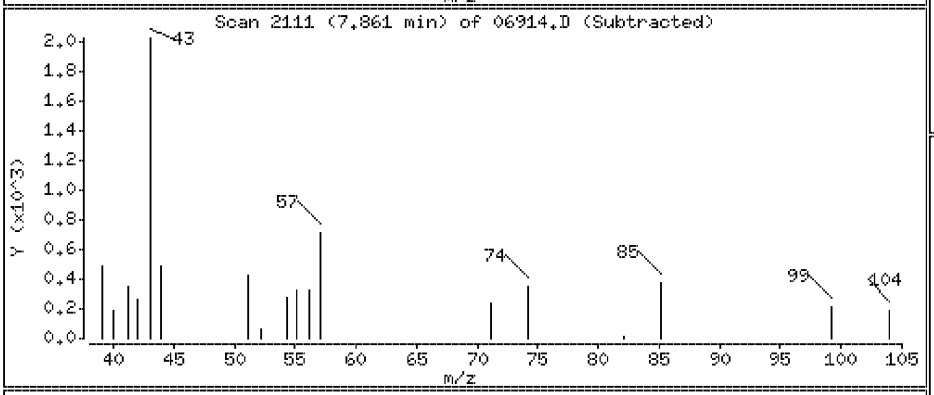
Column phase: J&W DB-5

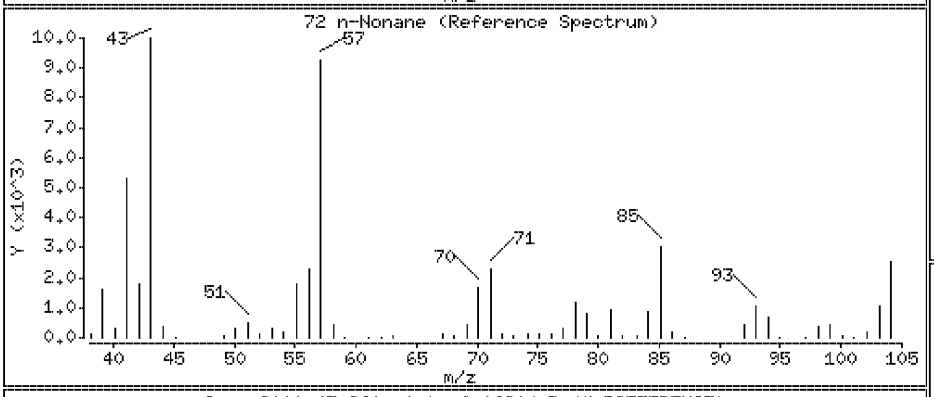
Column diameter: 0.32

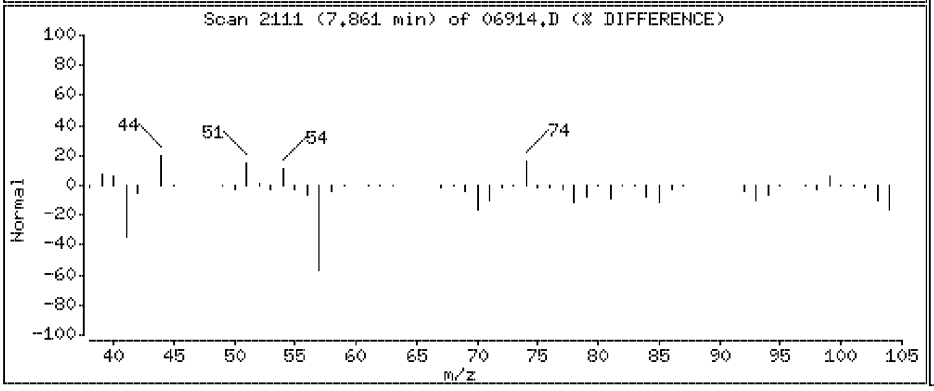
72 n-Nonane

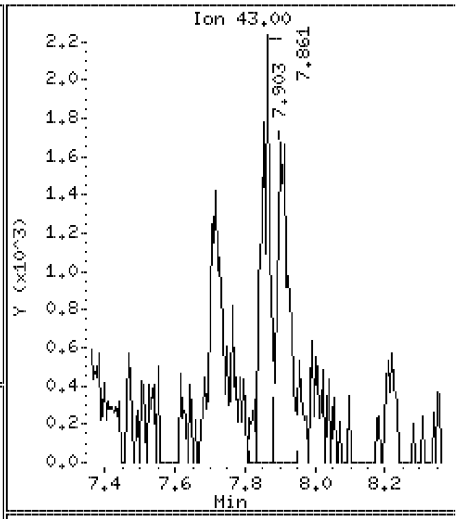
Concentration: 0.102 ppbv

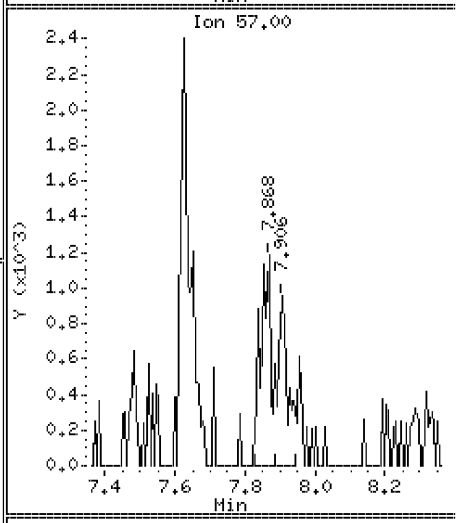


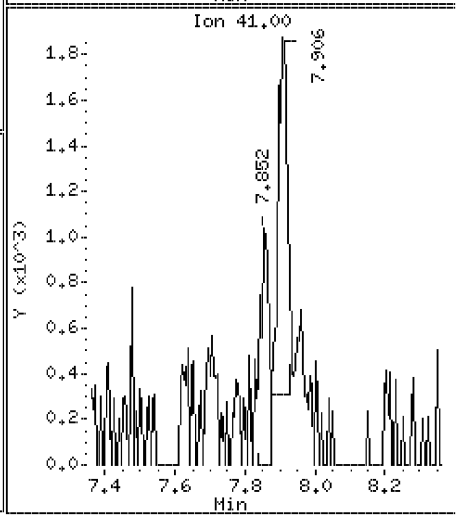












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

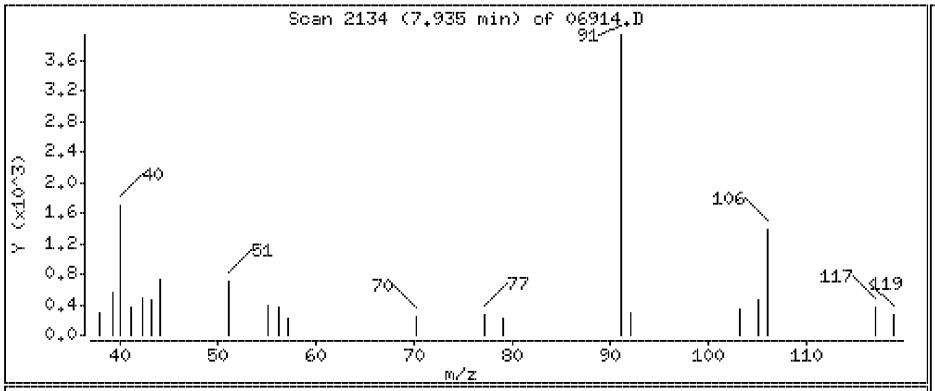
Operator: DR1

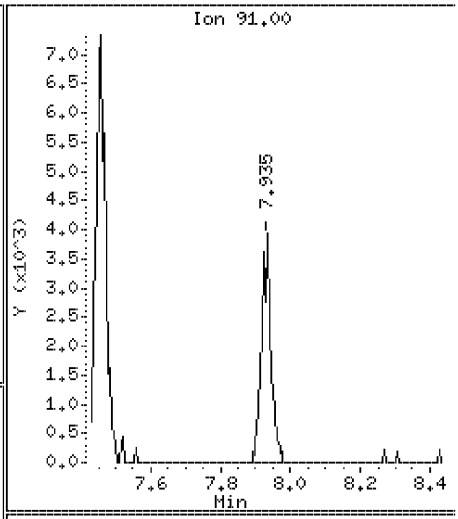
Column phase: J&W DB-5

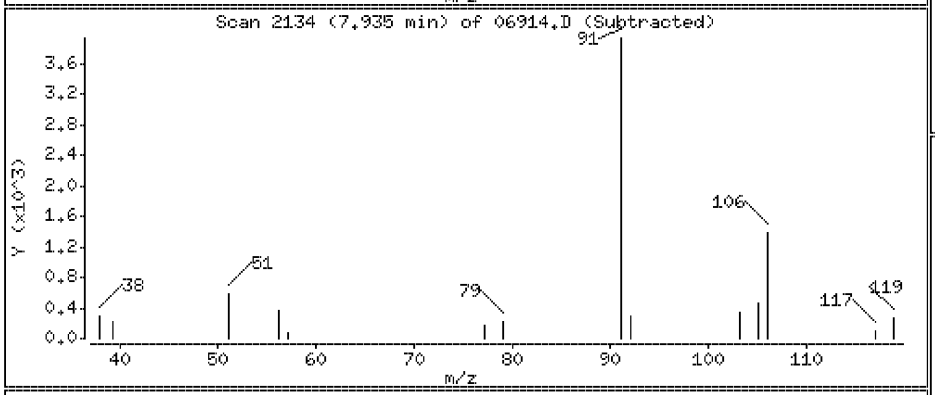
Column diameter: 0.32

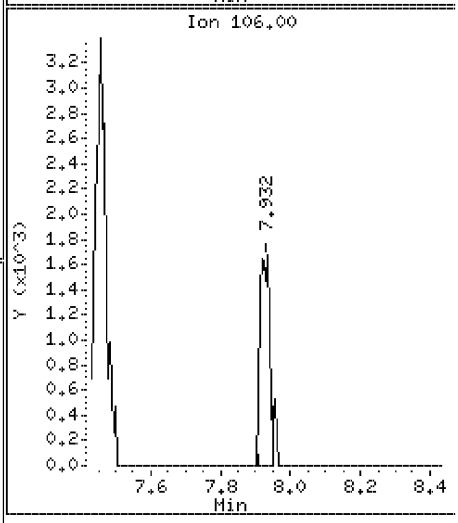
74 o-Xylene

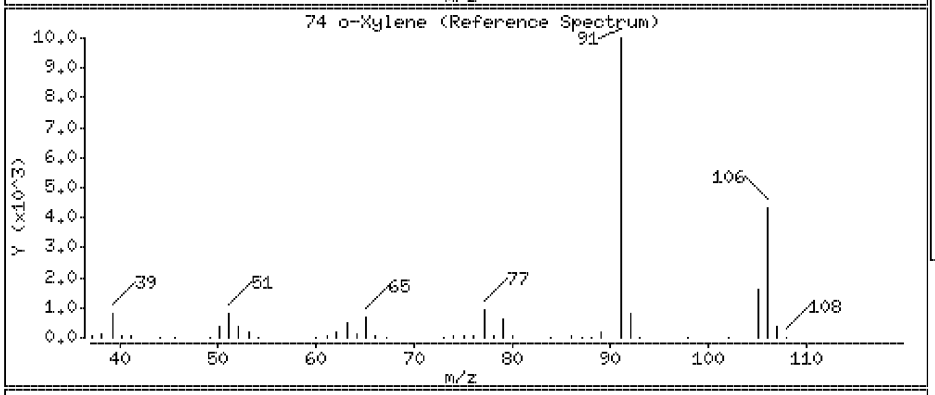
Concentration: 0.123 ppbv

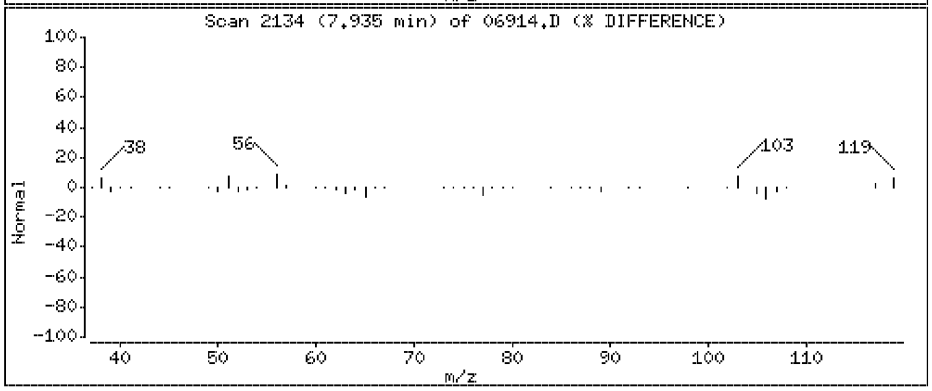












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

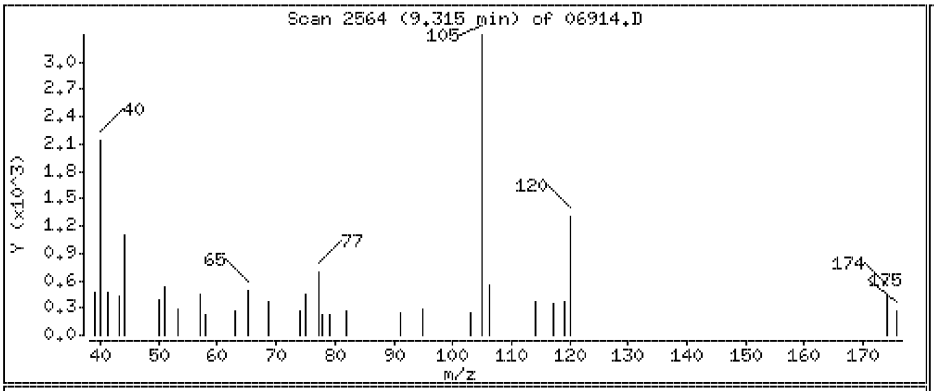
Operator: DR1

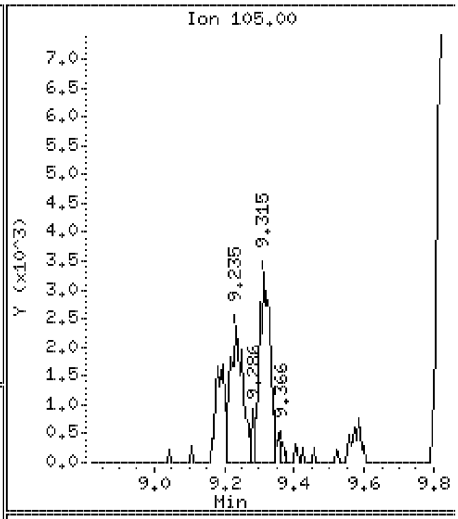
Column phase: J&W DB-5

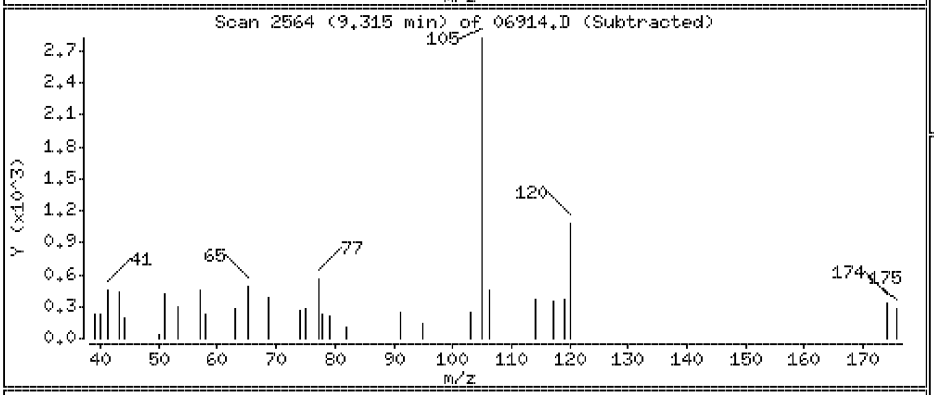
Column diameter: 0.32

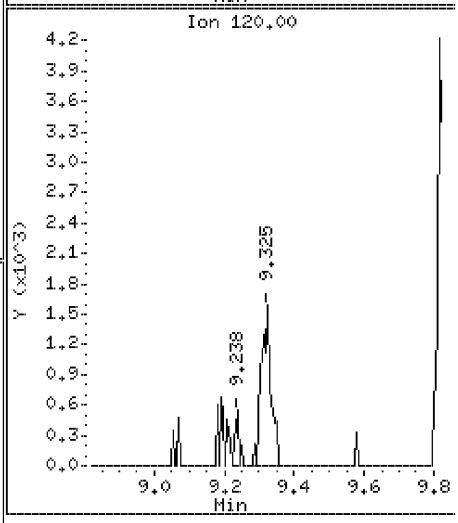
79 1,3,5-Trimethylbenzene

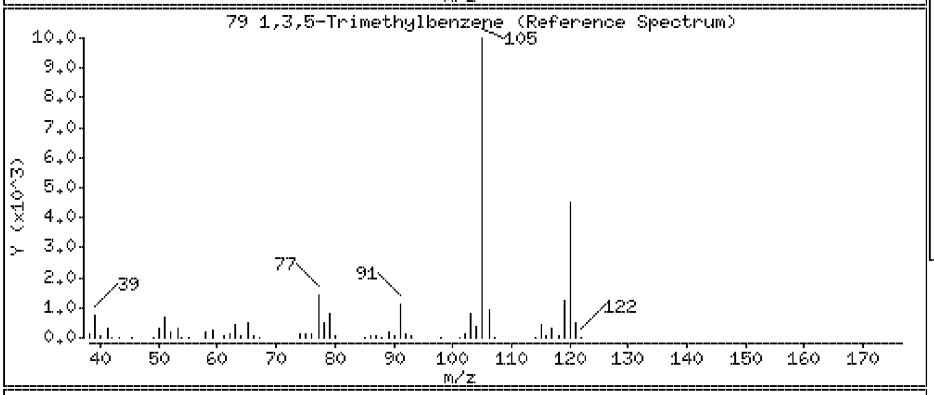
Concentration: 0.0577 ppbv

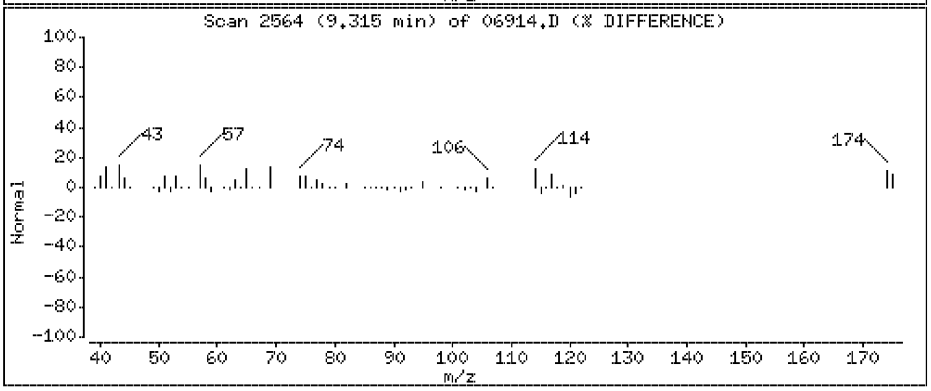












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

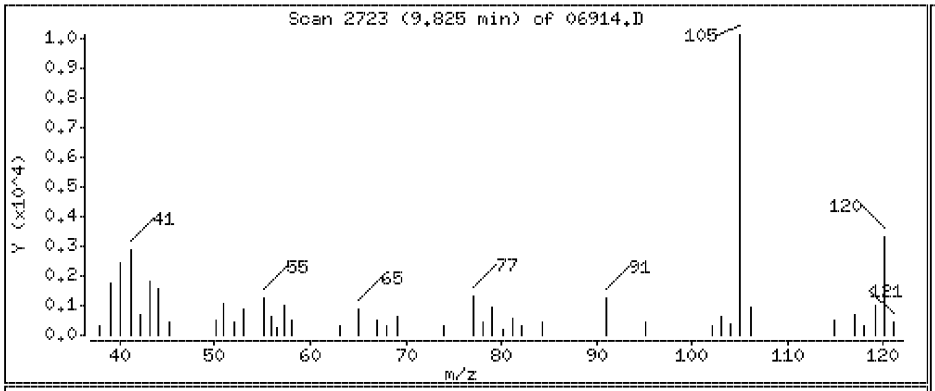
Operator: DR1

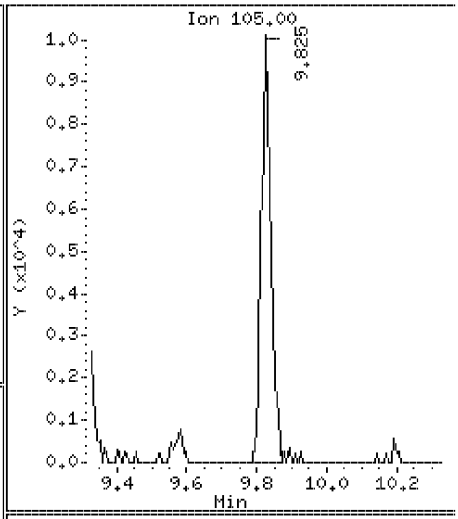
Column phase: J&W DB-5

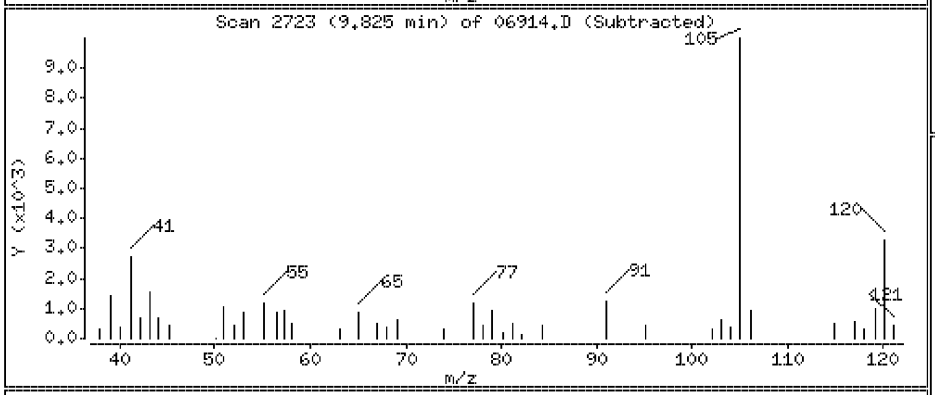
Column diameter: 0.32

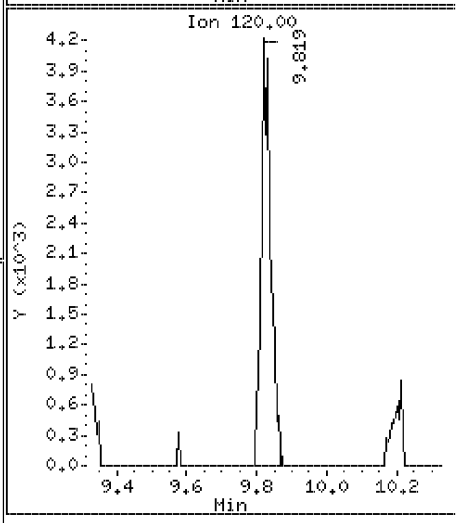
82 1,2,4-Trimethylbenzene

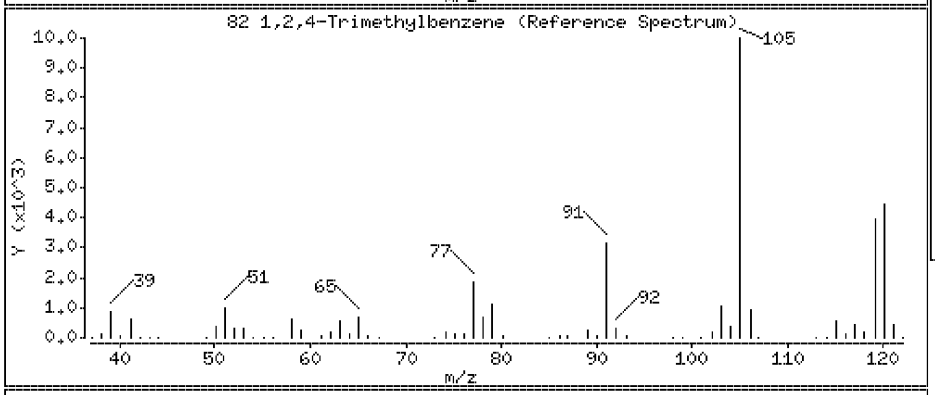
Concentration: 0.158 ppbv

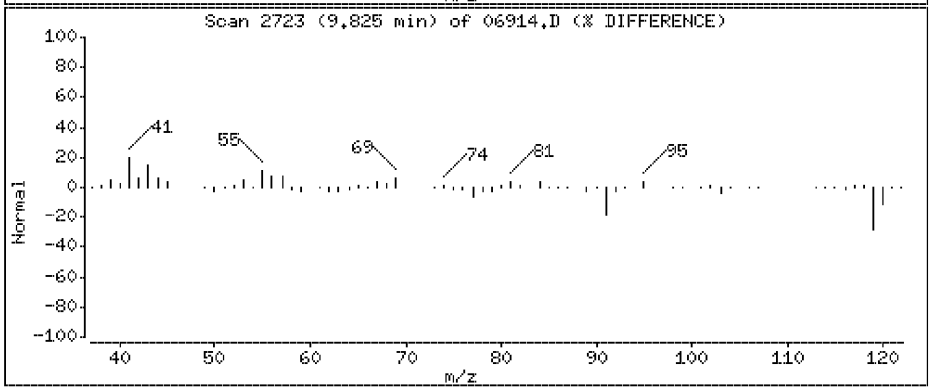












Data File: \\192.168.10.12\chem\10airD.i\031017.b\06914.D

Date : 10-MAR-2017 21:10

Client ID:

Instrument: 10airD.i

Sample Info:

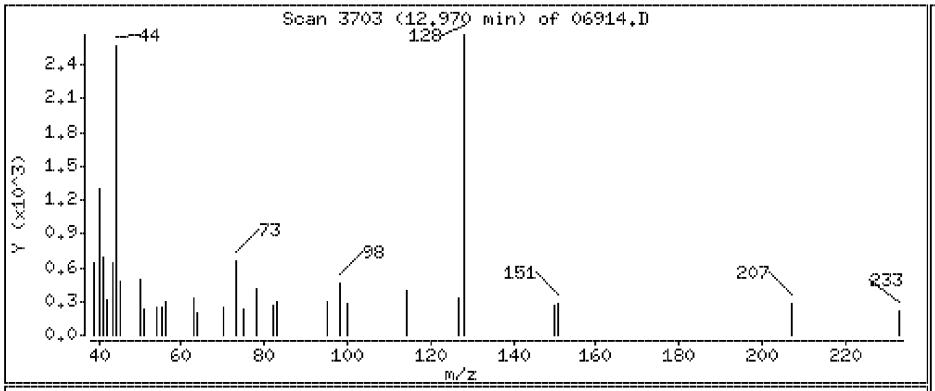
Operator: DR1

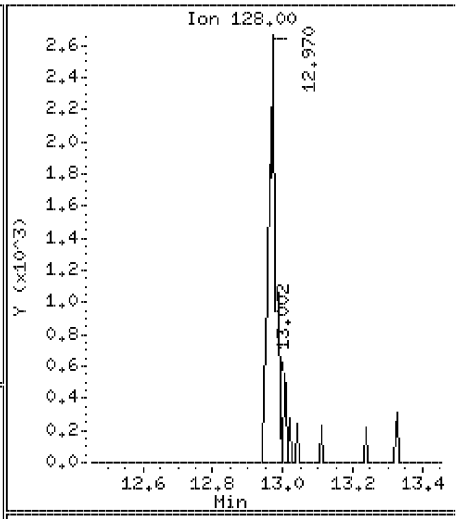
Column phase: J&W DB-5

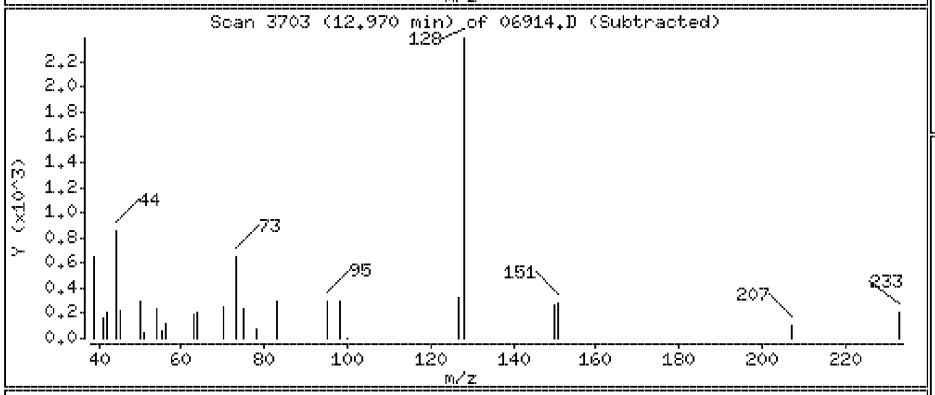
Column diameter: 0.32

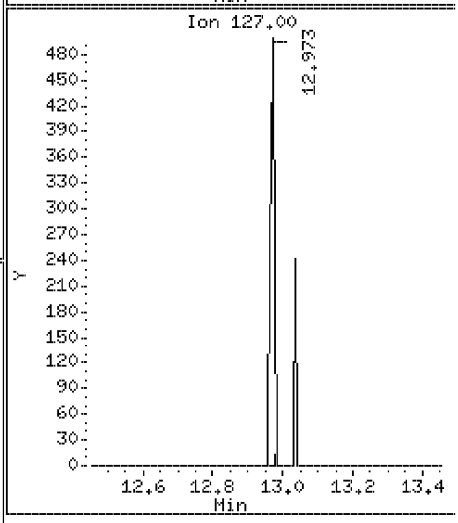
94 Naphthalene

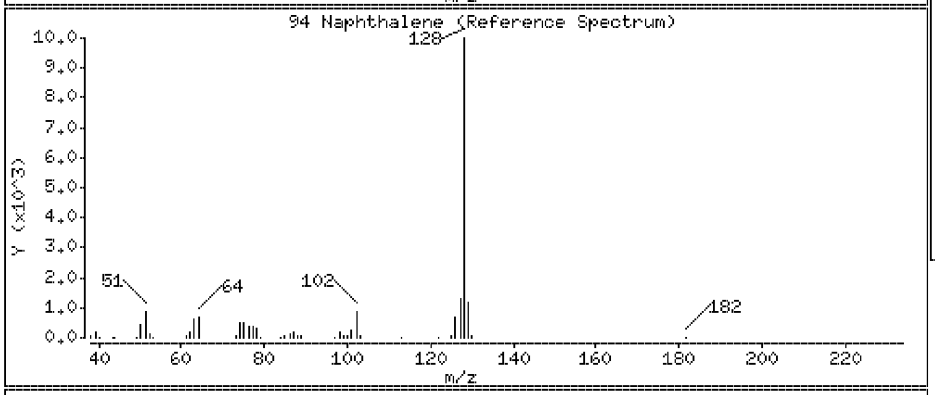
Concentration: 0.233 ppbv

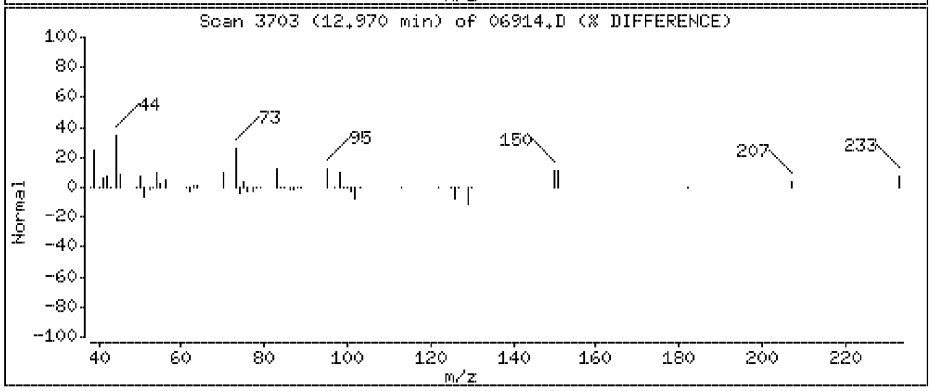






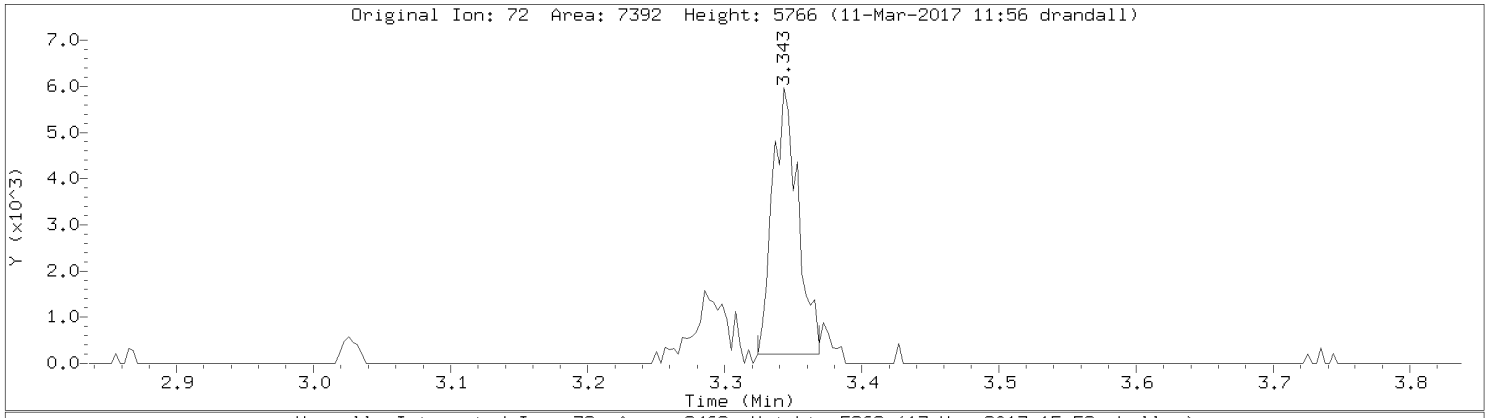


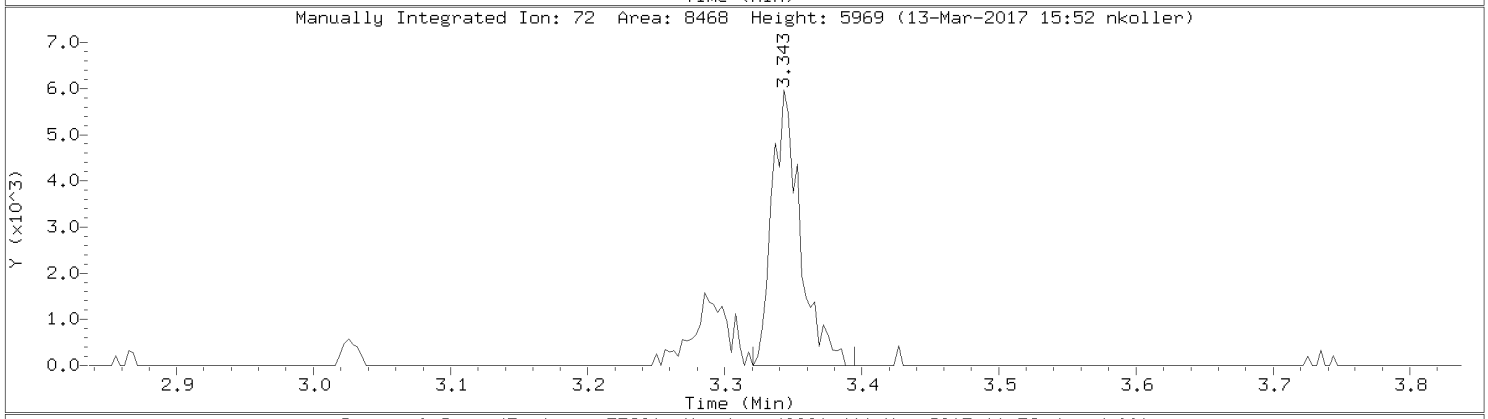


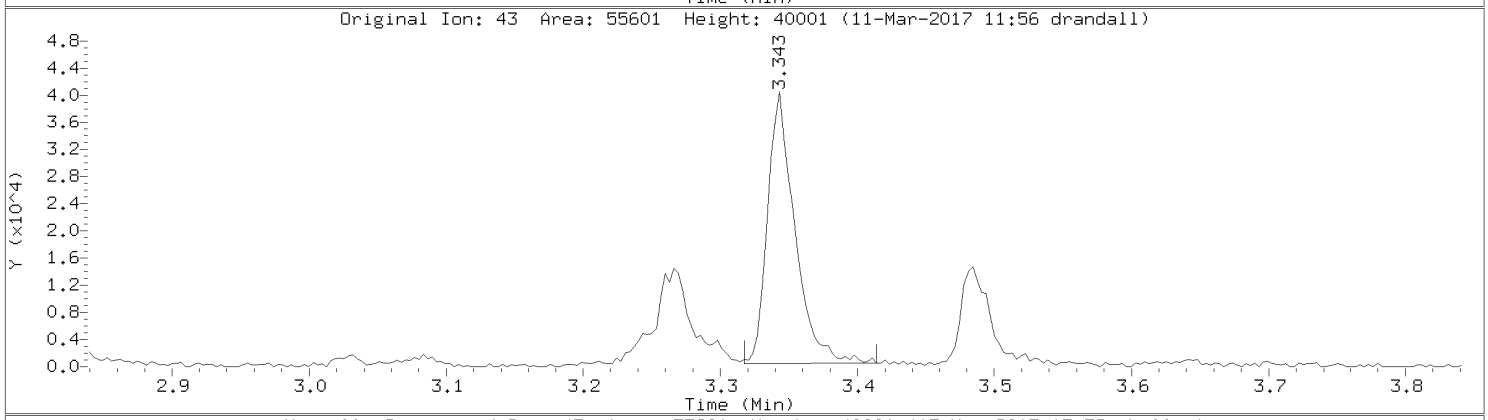


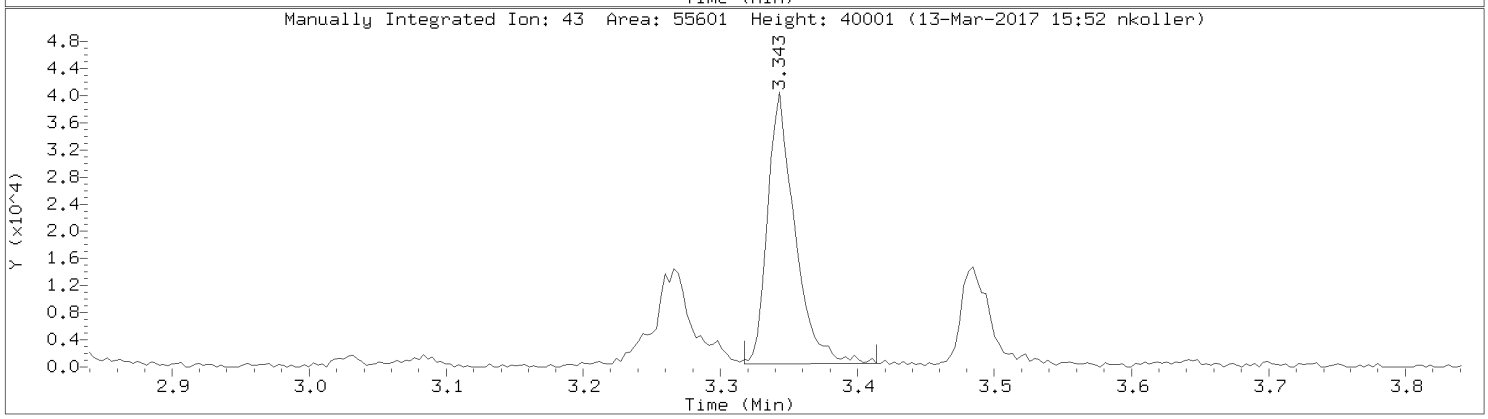
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06914.d
Injection Date: 10-MAR-2017 21:10
Instrument: 10airD.i
Lab Sample ID: 10380372008

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



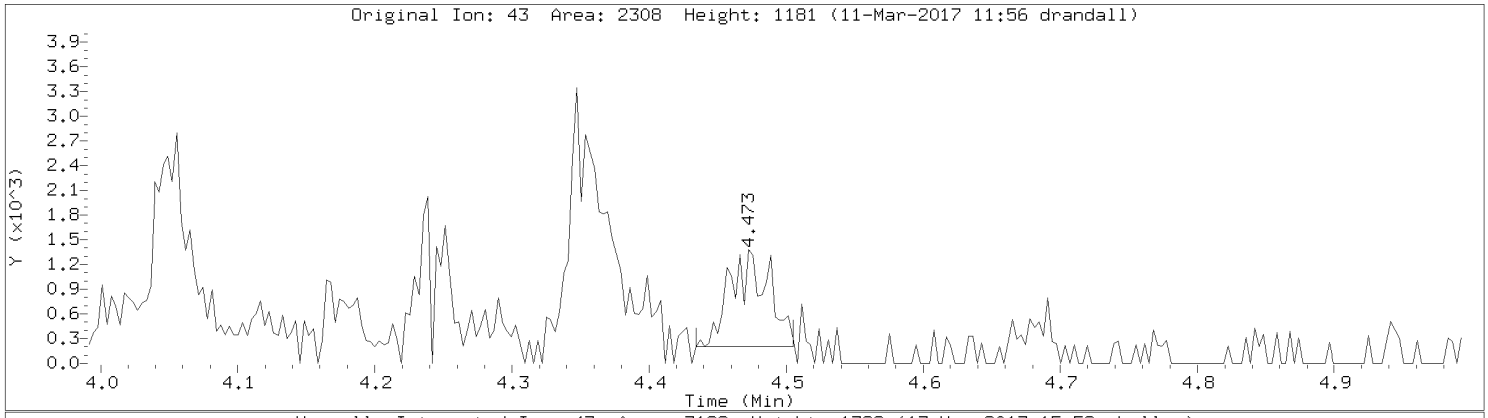


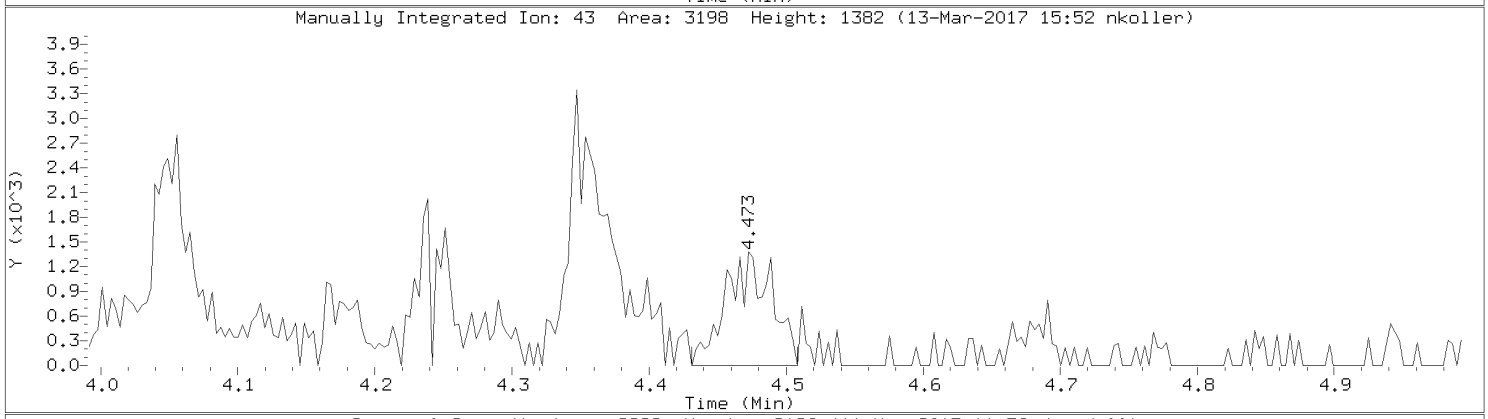


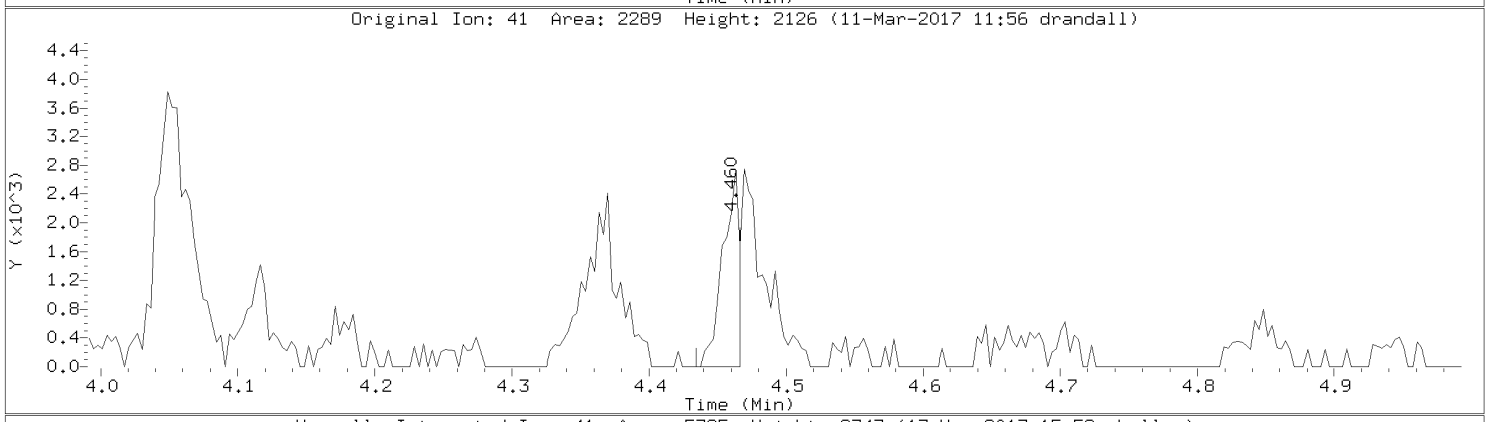


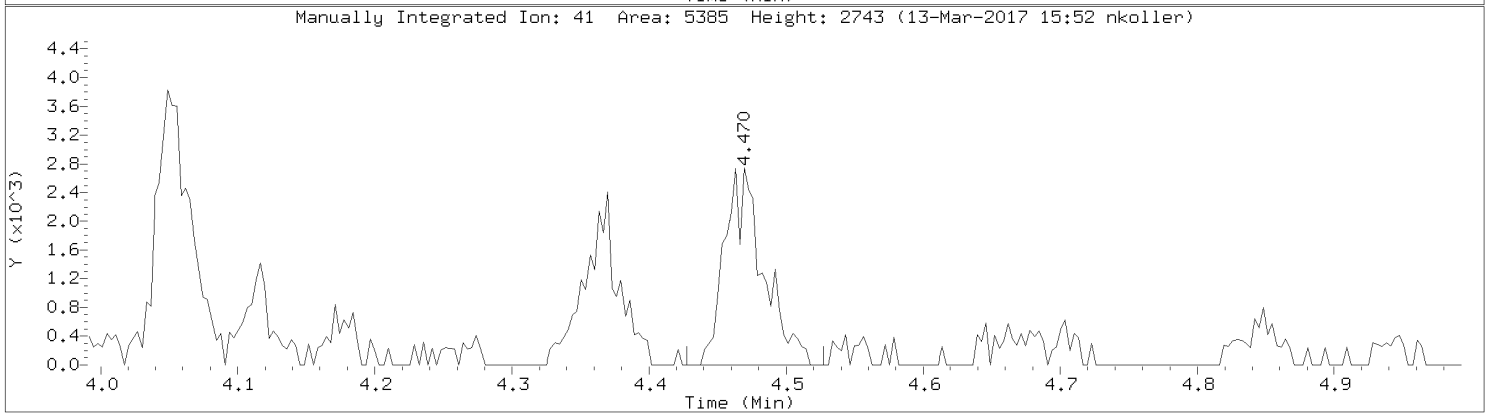
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06914.d
Injection Date: 10-MAR-2017 21:10
Instrument: 10airD.i
Lab Sample ID: 10380372008

Compound: Heptane
CAS Number: 142-82-5









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_20_20170226 **Lab ID: 10380372009** Collected: 02/26/17 11:54 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.3**	ug/m3	11.0	1.5	1.83		03/11/17 17:23	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/11/17 17:23	107-05-1	
Benzene	**0.49J**	ug/m3	0.59	0.22	1.83		03/11/17 17:23	71-43-2	
Bromodichloromethane	**0.36U**	ug/m3	2.5	0.36	1.83		03/11/17 17:23	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/11/17 17:23	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/11/17 17:23	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/11/17 17:23	106-99-0	
2-Butanone (MEK)	**1.1J**	ug/m3	5.5	0.42	1.83		03/11/17 17:23	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/11/17 17:23	75-15-0	
Carbon tetrachloride	**0.35U**	ug/m3	1.2	0.35	1.83		03/11/17 17:23	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/11/17 17:23	108-90-7	
Chlorodifluoromethane	**1.7**	ug/m3	1.3	0.51	1.83		03/11/17 17:23	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/11/17 17:23	75-00-3	
Chloroform	**0.35U**	ug/m3	0.91	0.35	1.83		03/11/17 17:23	67-66-3	
Chloromethane	**1.0**	ug/m3	0.77	0.20	1.83		03/11/17 17:23	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/11/17 17:23	76-15-3	CL
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/11/17 17:23	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/11/17 17:23	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/11/17 17:23	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/11/17 17:23	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/11/17 17:23	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/11/17 17:23	541-73-1	
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/11/17 17:23	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.88	1.83		03/11/17 17:23	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/11/17 17:23	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/11/17 17:23	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/11/17 17:23	75-35-4	
cis-1,2-Dichloroethene	**0.45U**	ug/m3	1.5	0.45	1.83		03/11/17 17:23	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/11/17 17:23	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/11/17 17:23	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/11/17 17:23	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/11/17 17:23	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/11/17 17:23	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/11/17 17:23	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/11/17 17:23	123-91-1	
Ethylbenzene	**0.78U**	ug/m3	1.6	0.78	1.83		03/11/17 17:23	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/11/17 17:23	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/11/17 17:23	87-68-3	
n-Hexane	**1.4**	ug/m3	1.3	0.65	1.83		03/11/17 17:23	110-54-3	
2-Hexanone	**0.75U**	ug/m3	7.6	0.75	1.83		03/11/17 17:23	591-78-6	
Isopropylbenzene (Cumene)	**0.25U**	ug/m3	4.6	0.25	1.83		03/11/17 17:23	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/11/17 17:23	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/11/17 17:23	108-87-2	
Methylene Chloride	**3.0J**	ug/m3	6.5	0.99	1.83		03/11/17 17:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/11/17 17:23	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/11/17 17:23	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.d
Report Date: 12-Mar-2017 10:26

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07013.d
Lab Smp Id: 10380372009
Inj Date : 11-MAR-2017 17:23
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 13
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.130	2.155	(0.502)	2047	0.26200	0.479(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.152	2.165	(0.507)	22192	0.31191	0.571	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	2.226	2.235	(0.525)	8713	0.26112	0.478	
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.502	2.521	(0.590)	58036	11.6809	21.4	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	2.598	2.614	(0.613)	10920	0.14671	0.268	
17	Acrolein	56	2.617	2.624	(0.617)	1133	0.53663	0.982(QH)	
18	Acetone	43	2.656	2.653	(0.626)	174066	3.67914	6.73	
19	Isopropyl Alcohol	45	2.672	2.688	(0.630)	161916	6.42279	11.8(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.d
Report Date: 12-Mar-2017 10:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						
	25 Methylene chloride	49	2.868	2.871	(0.676)	26306	0.46209	0.846	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.275	(0.771)	1596098	9.29021	9.29	
	33 Methyl Ethyl Ketone	72	3.352	3.359	(0.790)	2032	0.19749	0.361(Q)	
	34 n-Hexane	57	3.349	3.352	(0.790)	7850	0.21101	0.386(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.094	4.100	(0.965)	5847	0.08210	0.150	
	45 Carbon tetrachloride	117	Compound Not Detected.						(D)
	44 Cyclohexane	56	4.116	4.126	(0.970)	3172	0.08628	0.158(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	3236191	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	4.463	4.491	(1.052)	6355	0.11431	0.209(Q)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.563	(1.311)	3096317	9.54850	9.55	
	60 Toluene	91	5.627	5.631	(1.327)	14295	0.14942	0.273	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	5.916	5.887	(0.842)	4122	0.07156	0.131	
	63 n-Octane	43	6.064	6.051	(0.863)	9262	0.15462	0.283(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	7.027	7.030	(1.000)	2413807	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	7011	0.06620	0.121	
	70 m&p-Xylene	91	7.453	7.460	(1.061)	18198	0.09201	0.168	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.861	7.858	(1.119)	3848	0.06962	0.127(Q)	
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.d
Report Date: 12-Mar-2017 10:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	9.314	9.318	(1.326)	12037	0.10195	0.187	
80	n-Decane	57	9.722	9.722	(2.292)	6383	0.12136	0.222(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.821	9.825	(1.398)	27855	0.22468	0.411	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1269779	8.58592	8.59	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	10.409	10.409	(1.481)	3272	0.04414	0.0808(aM)	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.963	12.960	(1.845)	12055	0.47659	0.872(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.d
Report Date: 12-Mar-2017 10:26

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07013.d
Lab Smp Id: 10380372009
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

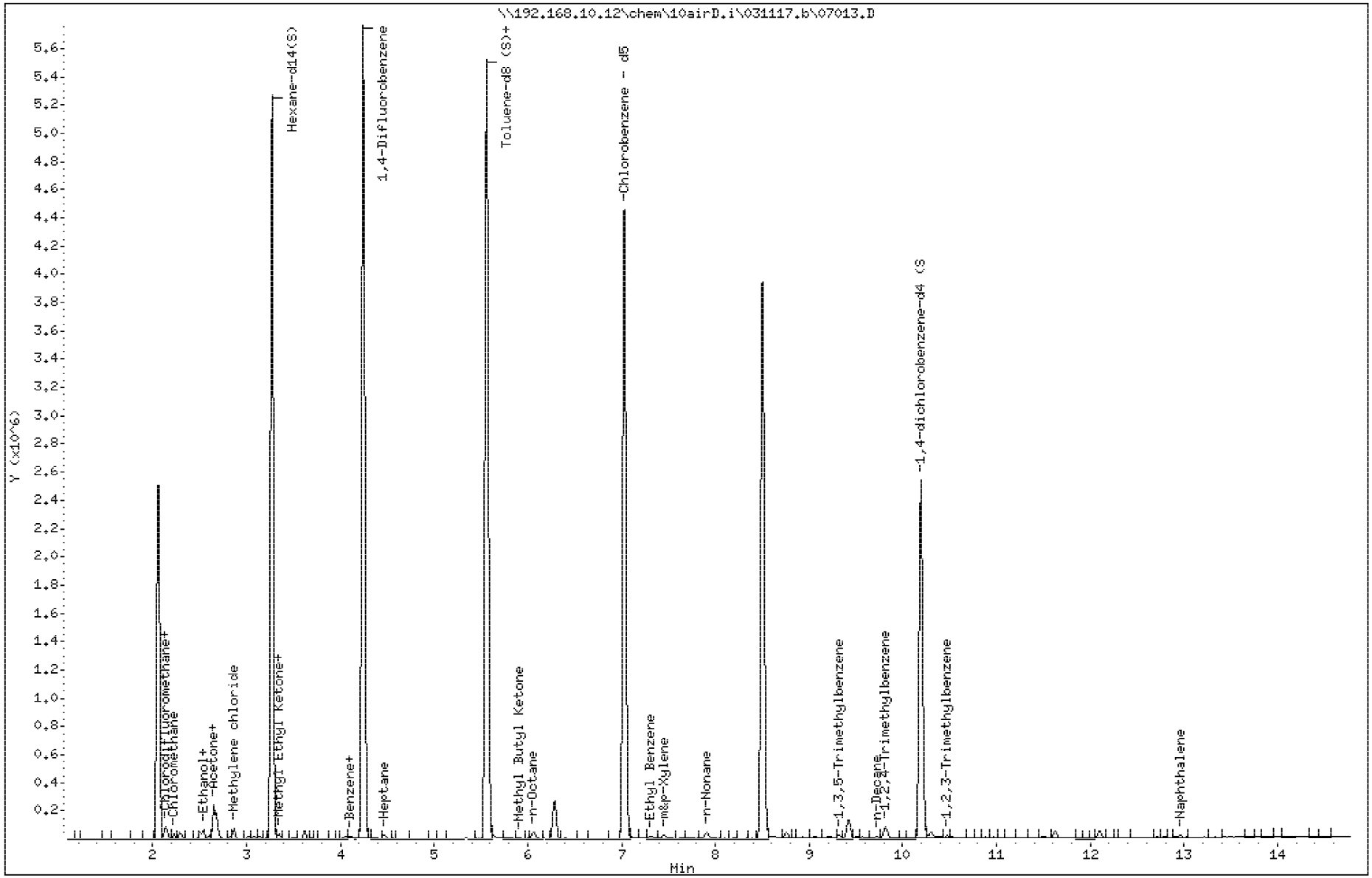
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3236191	-14.56
67 Chlorobenzene - d	3280875	1968525	4593225	2413807	-26.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D
Date : 11-MAR-2017 17:23
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

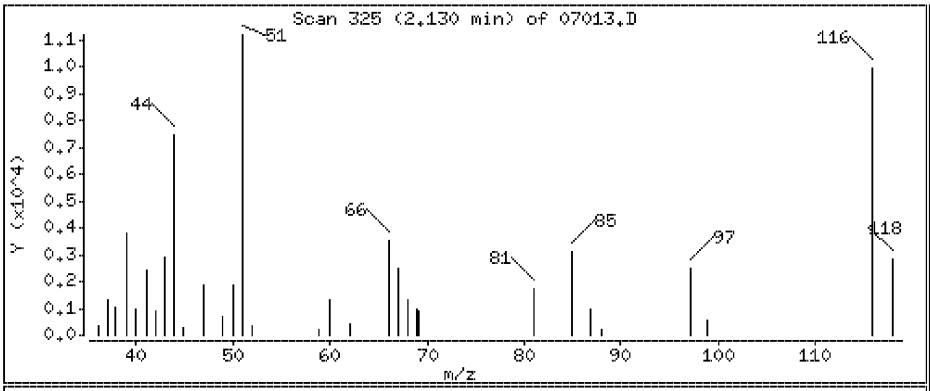
Operator: DR1

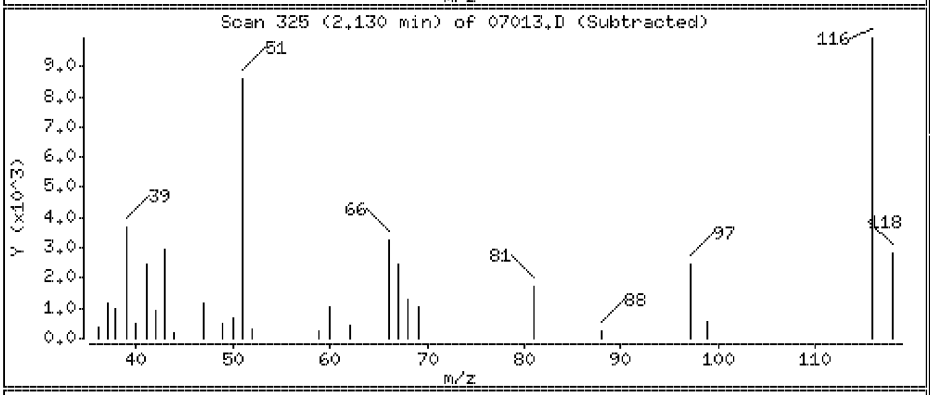
Column phase: J&W DB-5

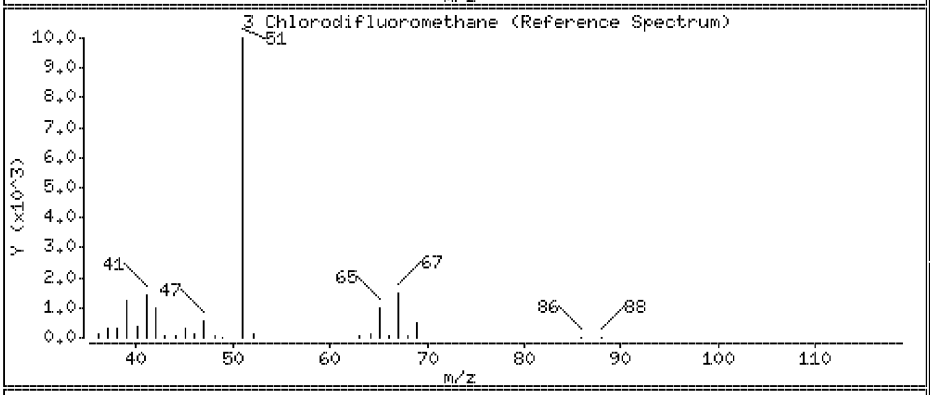
Column diameter: 0.32

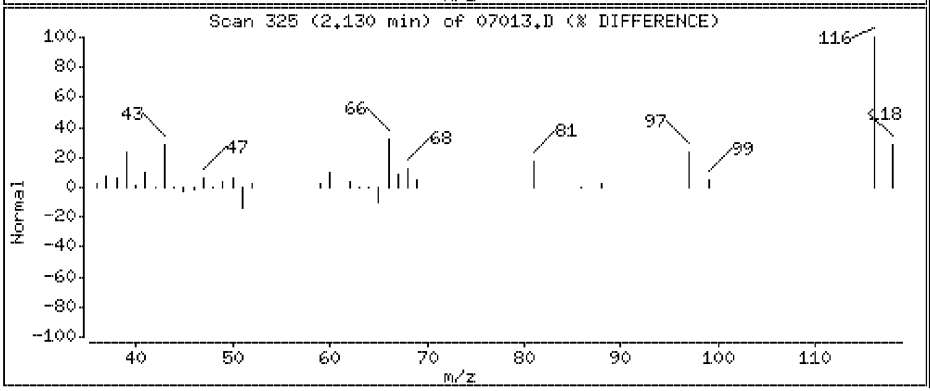
3 Chlorodifluoromethane

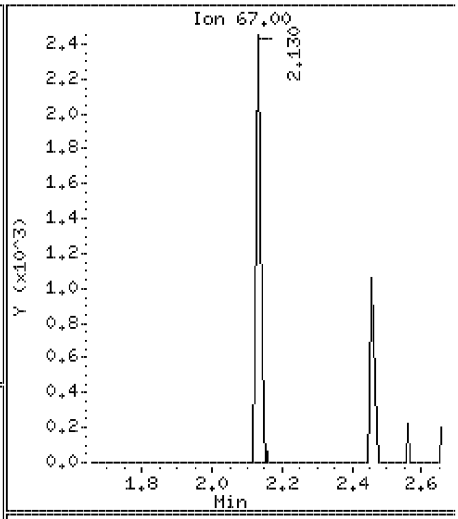
Concentration: 0.479 ppbv

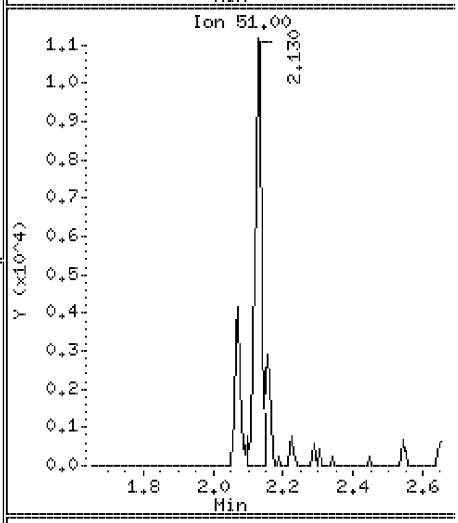


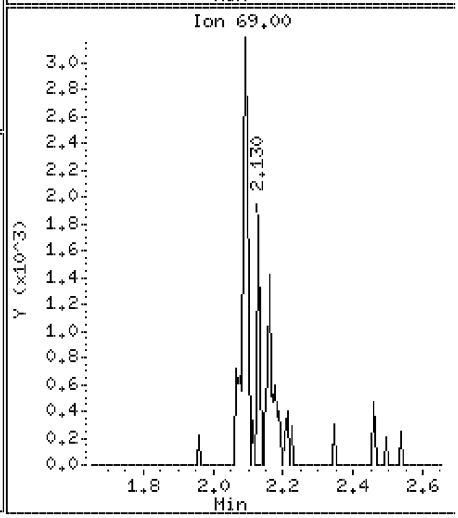












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

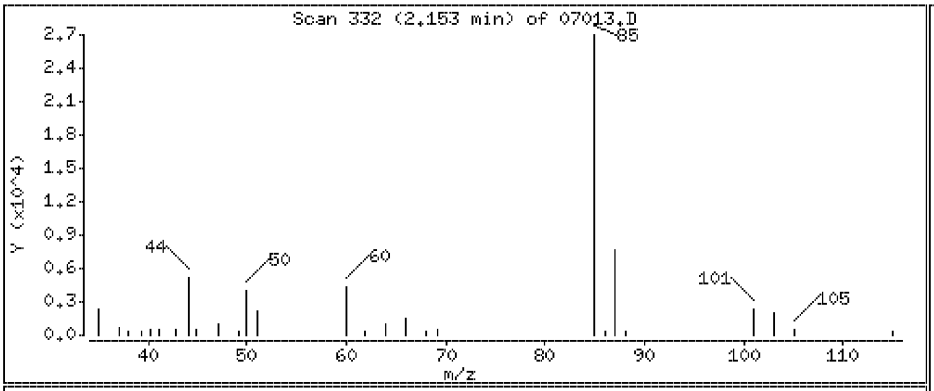
Operator: DR1

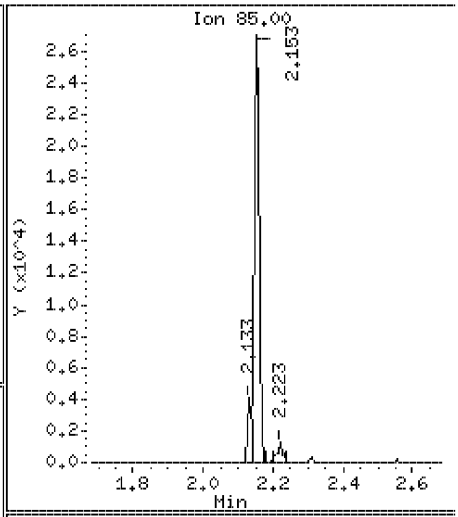
Column phase: J&W DB-5

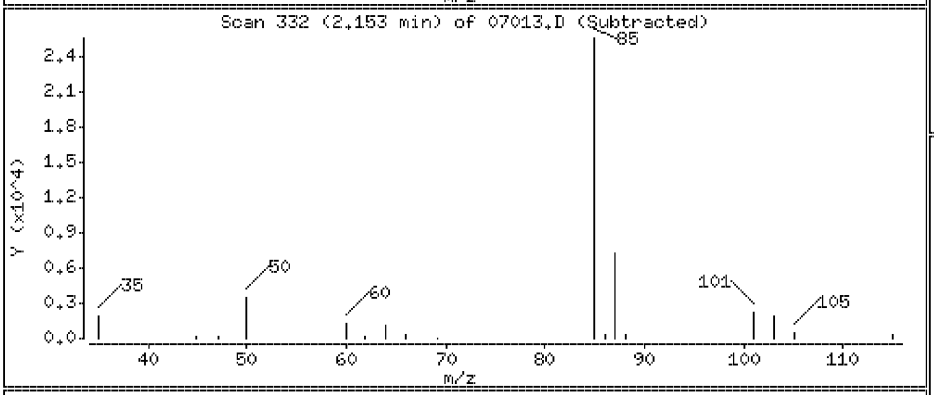
Column diameter: 0.32

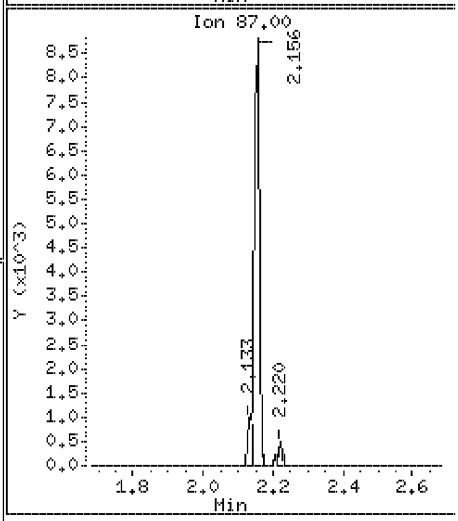
5 Dichlorodifluoromethane

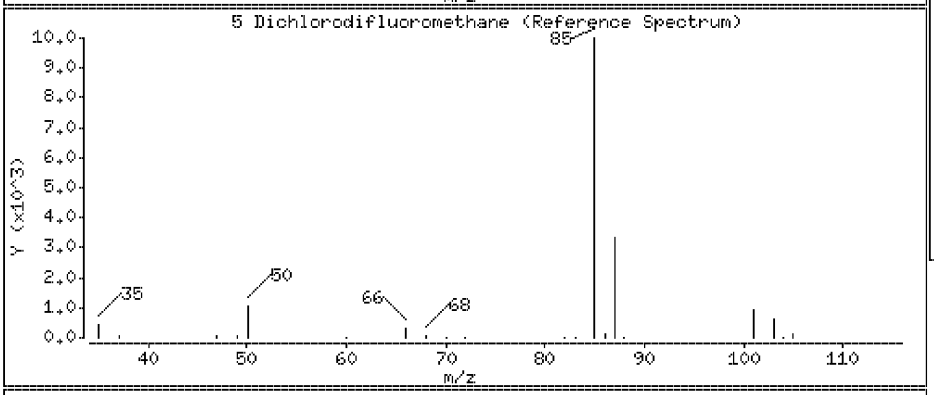
Concentration: 0.571 ppbv

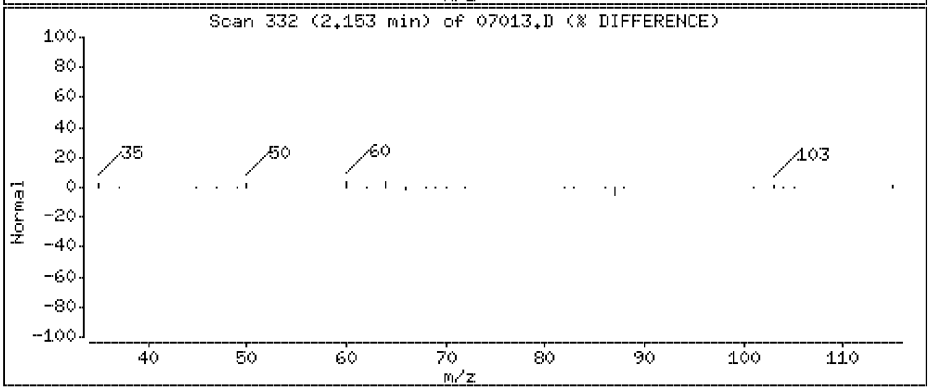












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

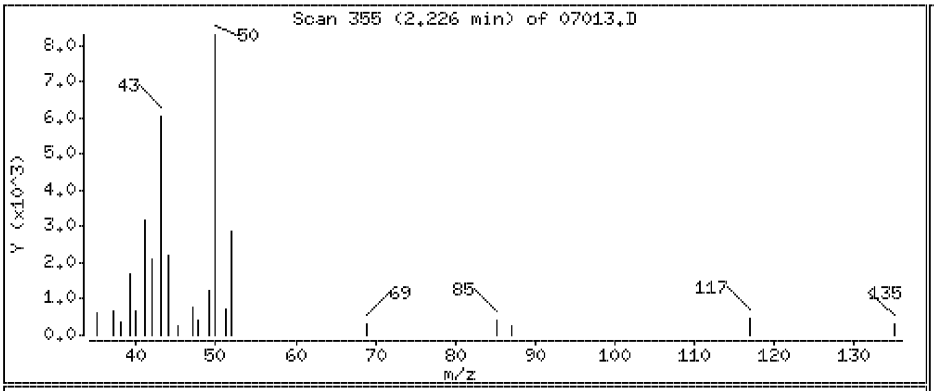
Operator: DR1

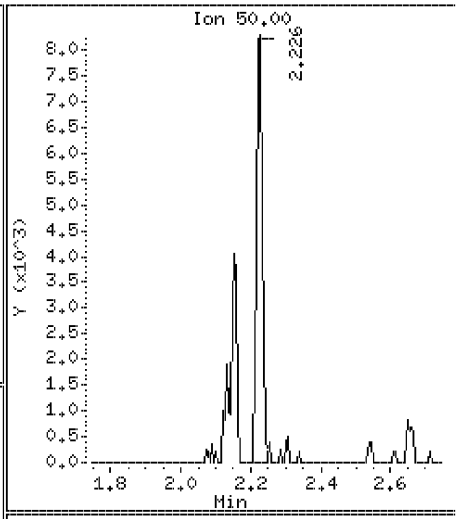
Column phase: J&W DB-5

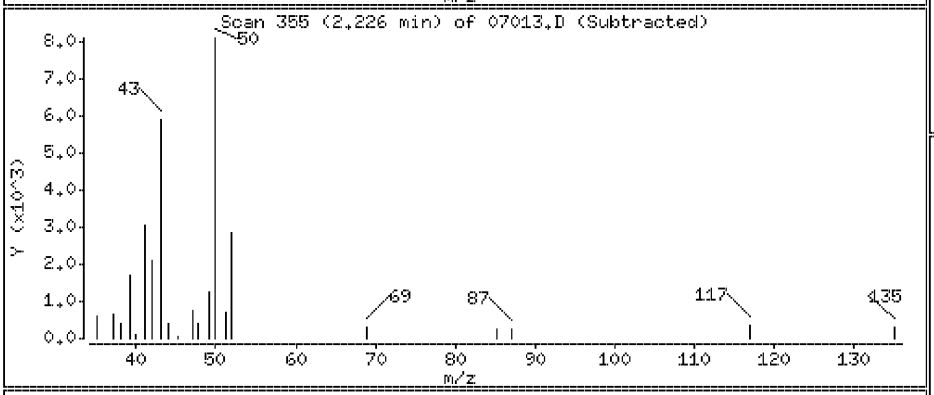
Column diameter: 0.32

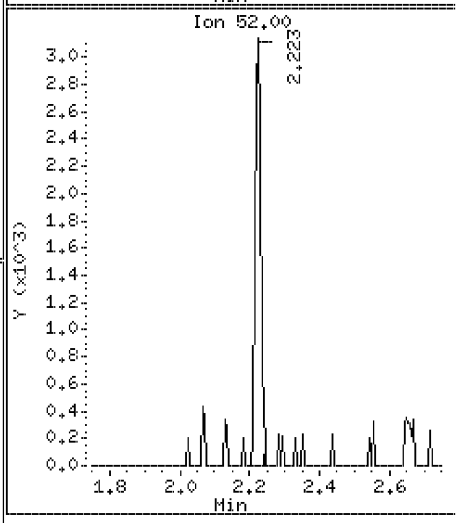
7 Chloromethane

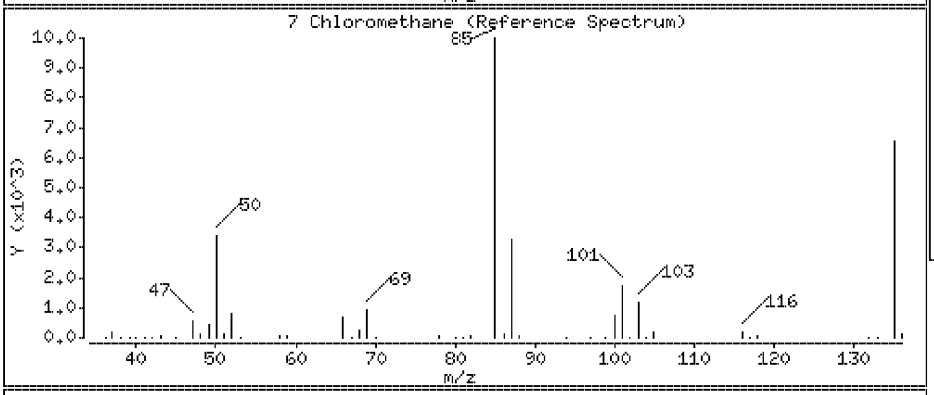
Concentration: 0.478 ppbv

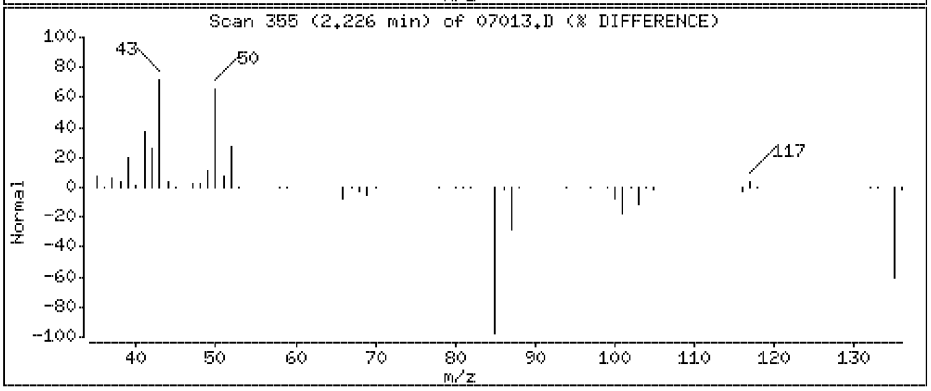












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

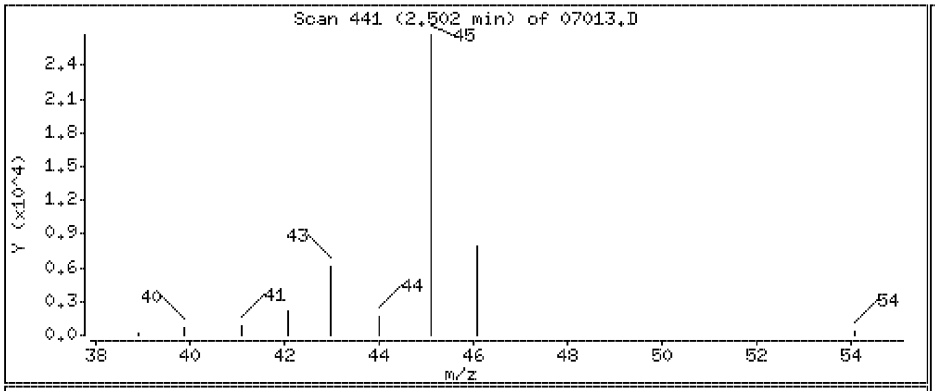
Operator: DR1

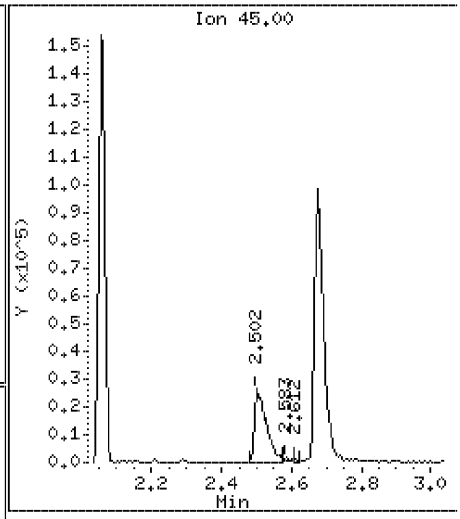
Column phase: J&W DB-5

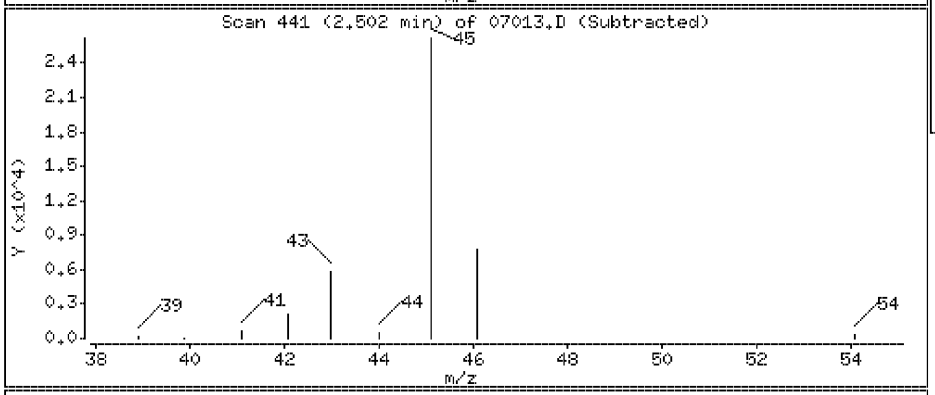
Column diameter: 0.32

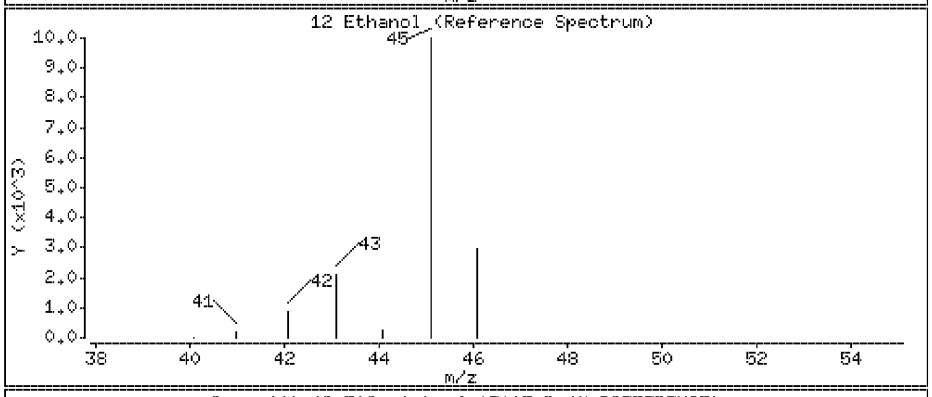
12 Ethanol

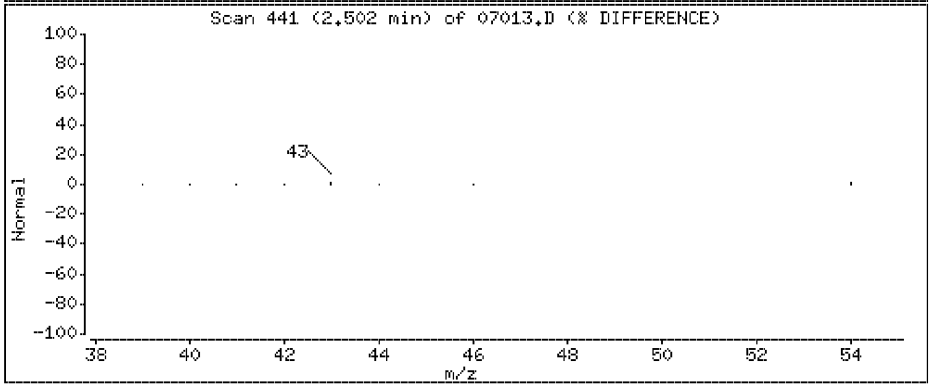
Concentration: 21.4 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

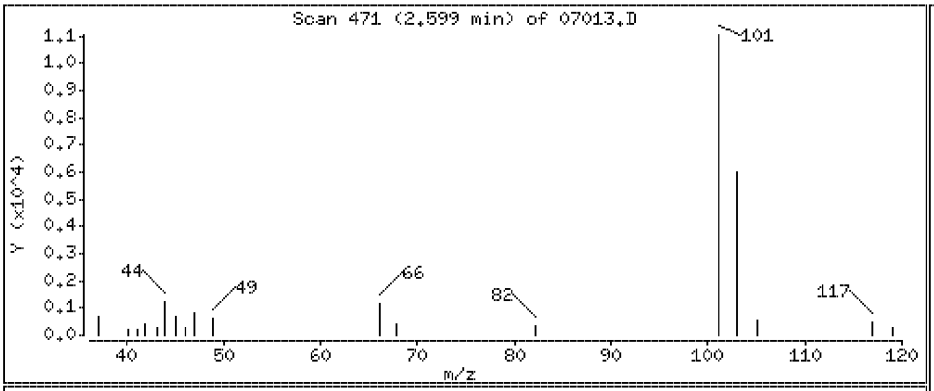
Operator: DR1

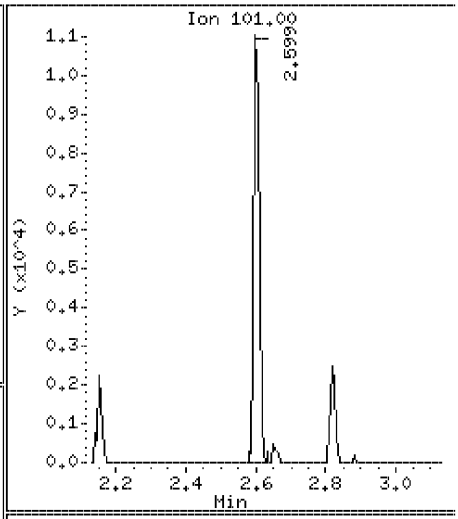
Column phase: J&W DB-5

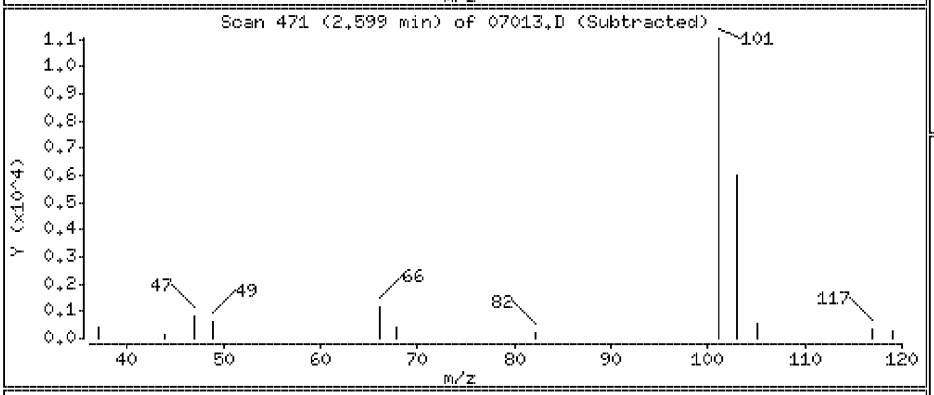
Column diameter: 0.32

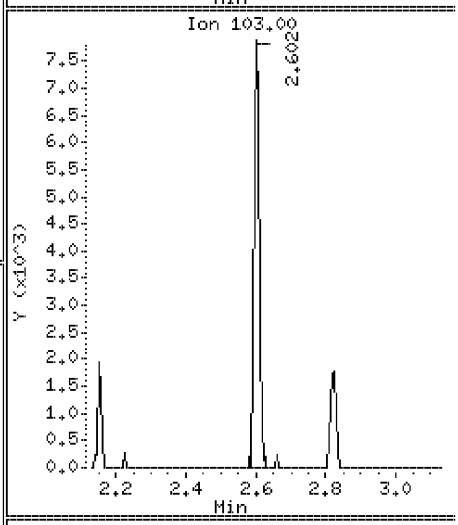
16 Trichlorofluoromethane

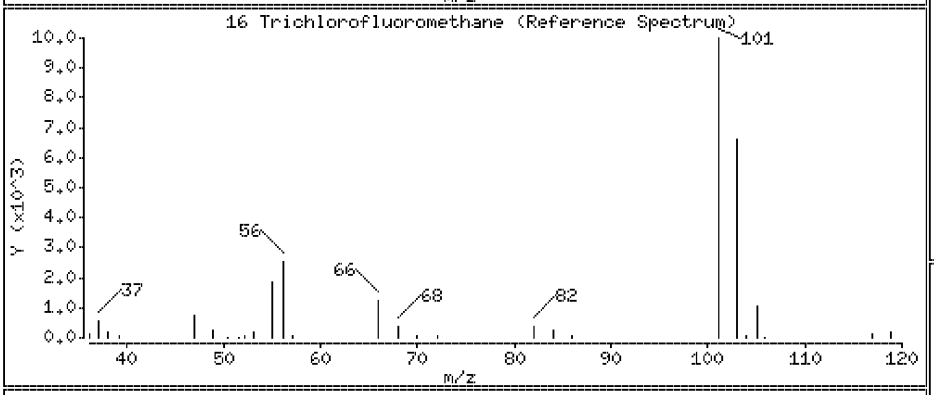
Concentration: 0.268 ppbv

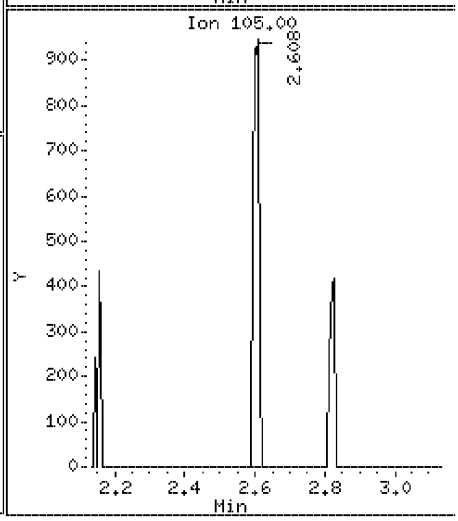


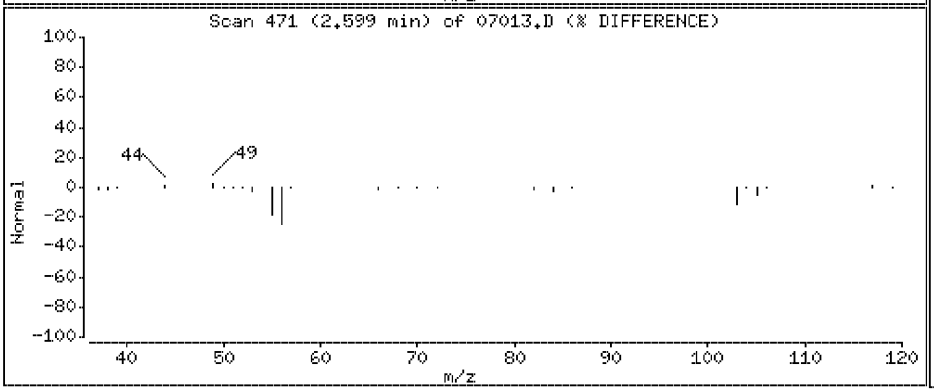












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

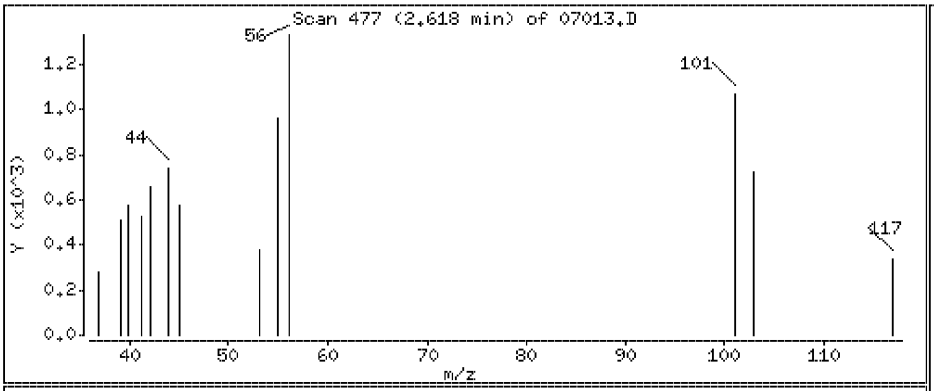
Operator: DR1

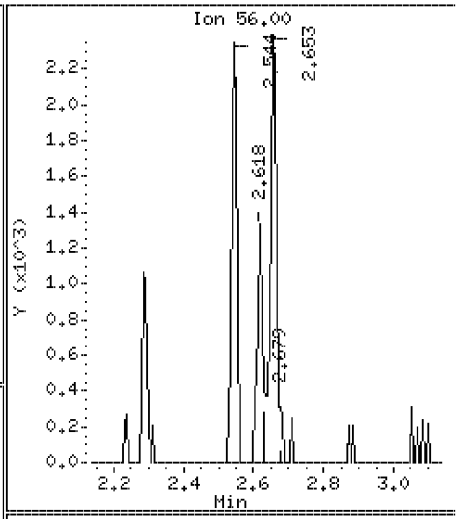
Column phase: J&W DB-5

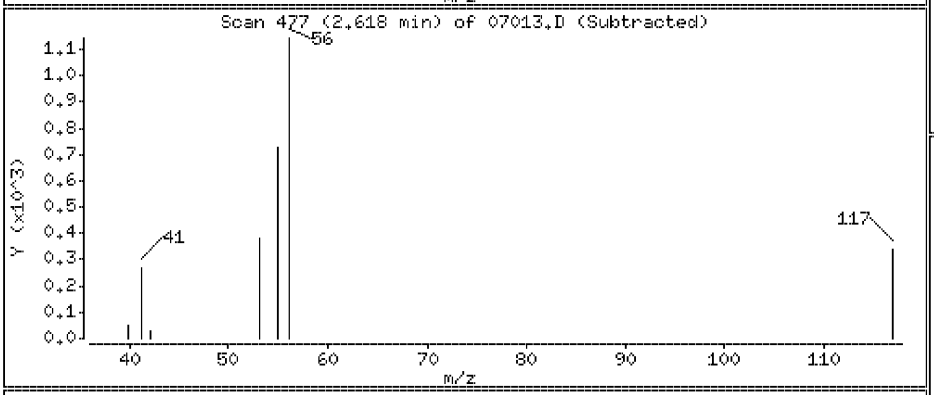
Column diameter: 0.32

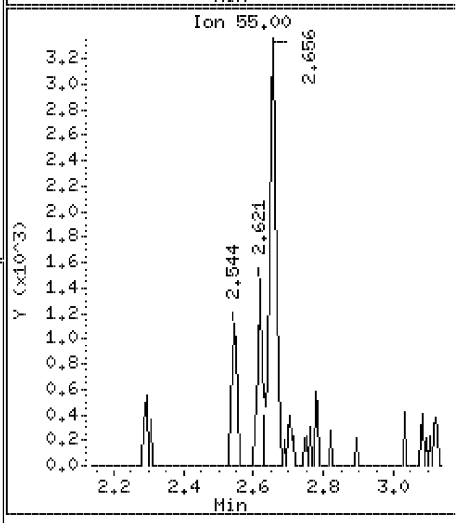
17 Acrolein

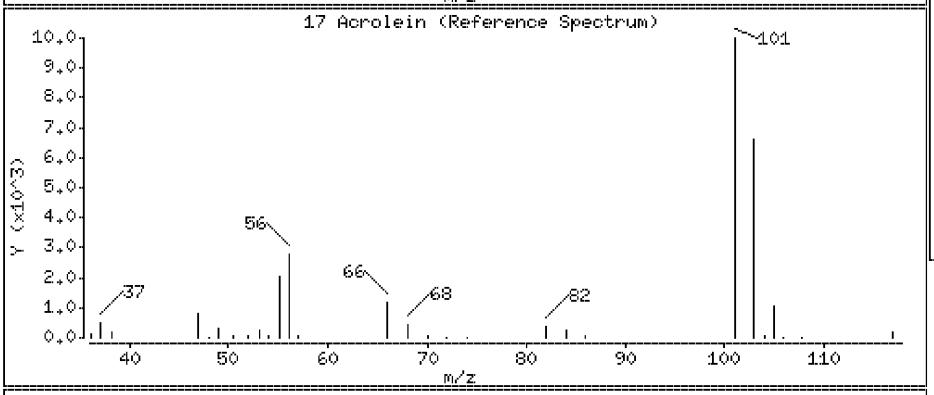
Concentration: 0.982 ppbv

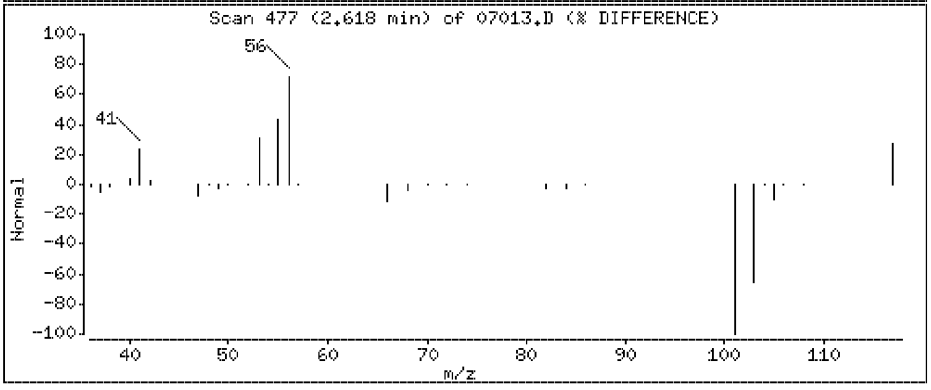












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

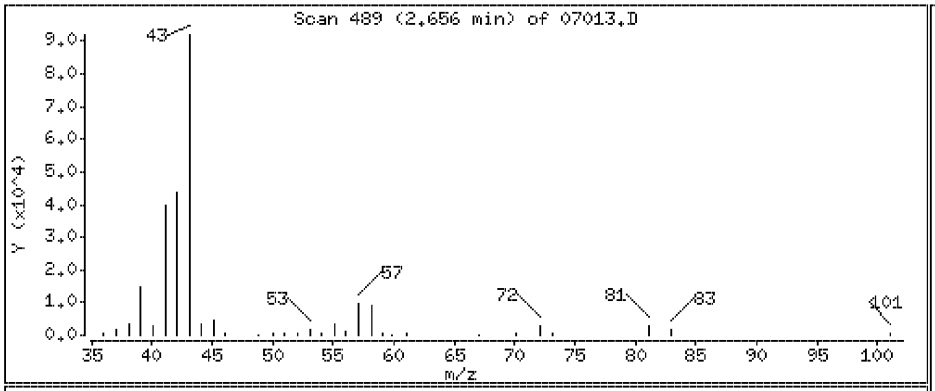
Operator: DR1

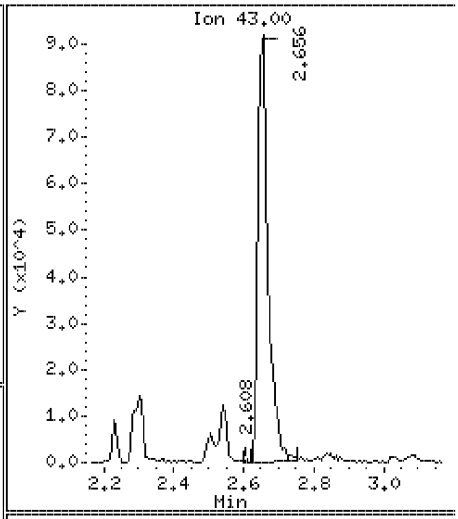
Column phase: J&W DB-5

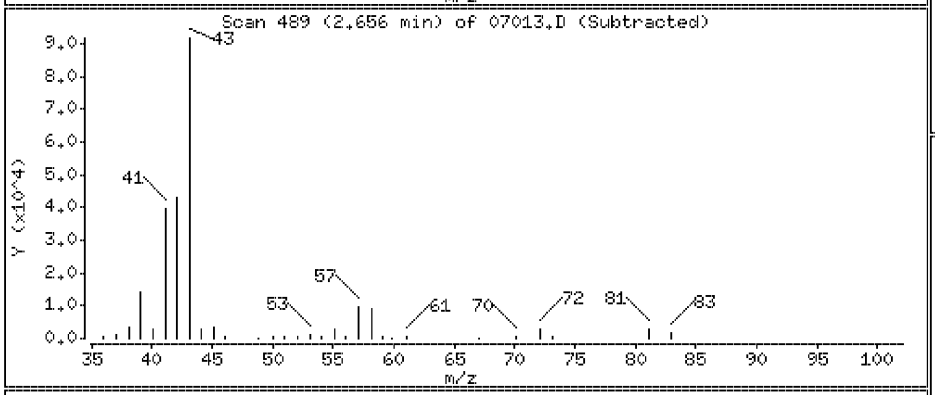
Column diameter: 0.32

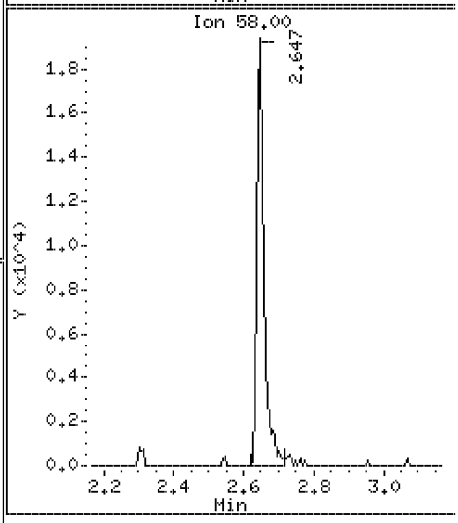
18 Acetone

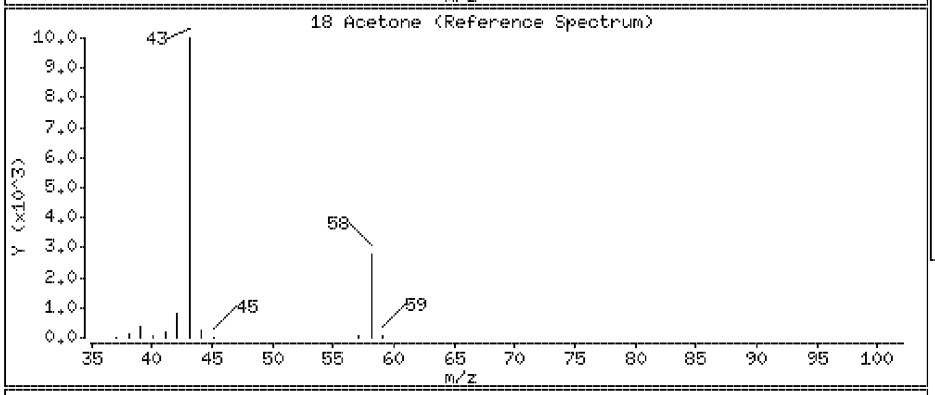
Concentration: 6.73 ppbv

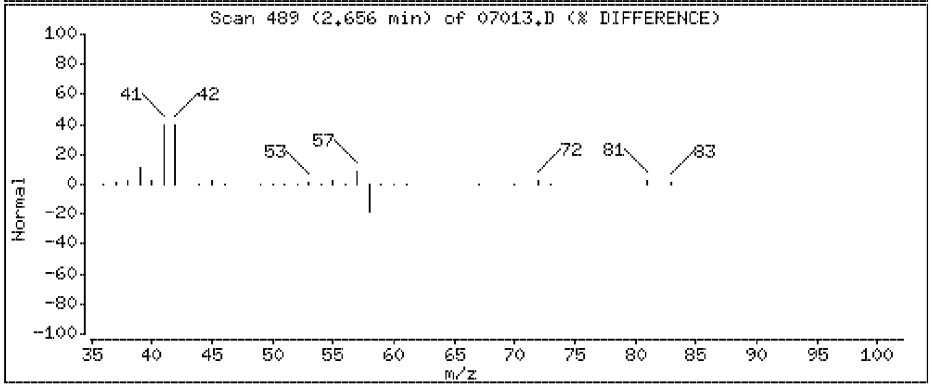












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

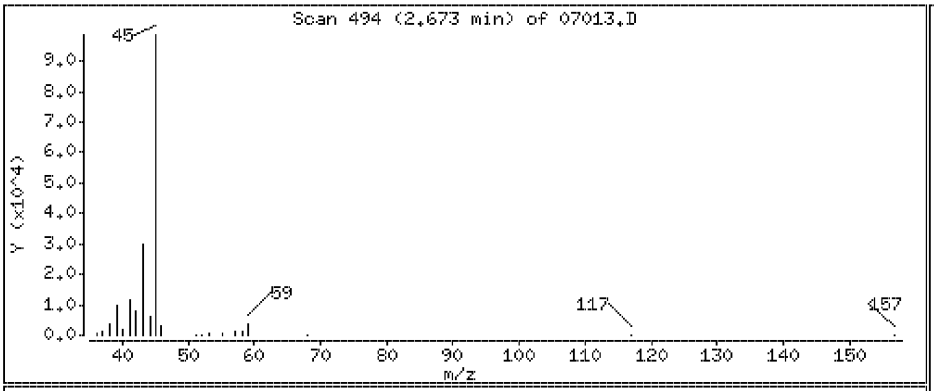
Operator: DR1

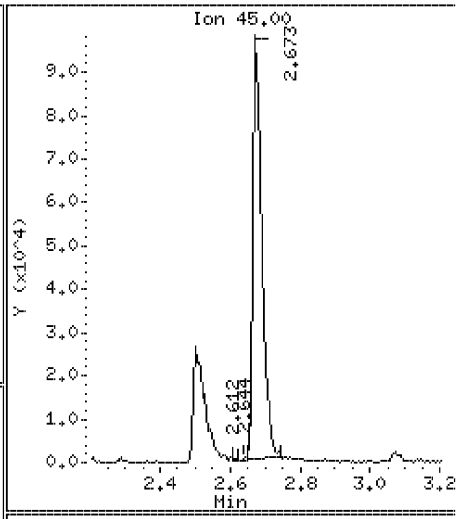
Column phase: J&W DB-5

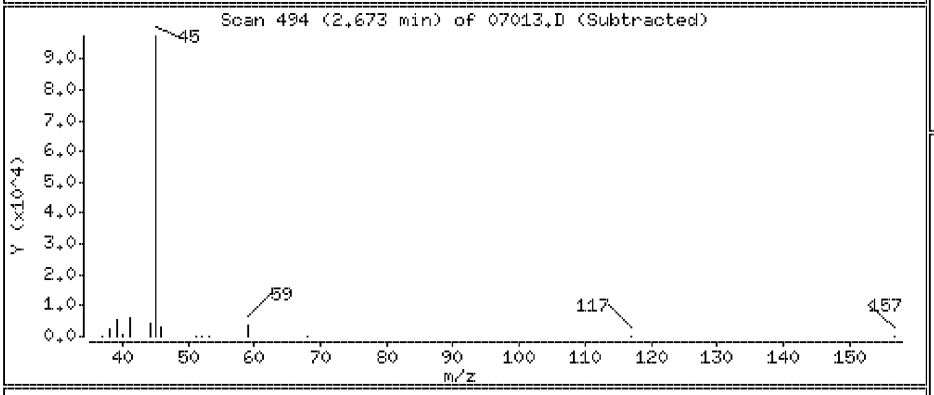
Column diameter: 0.32

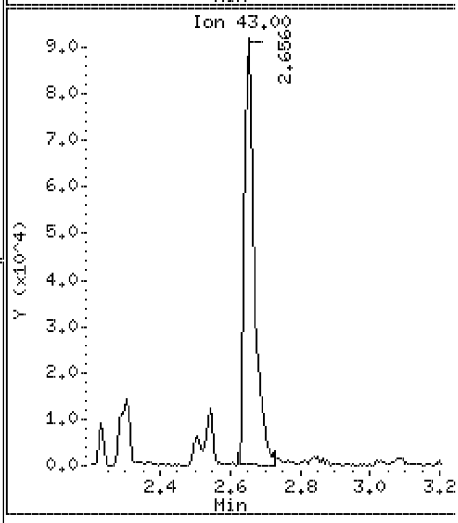
19 Isopropyl Alcohol

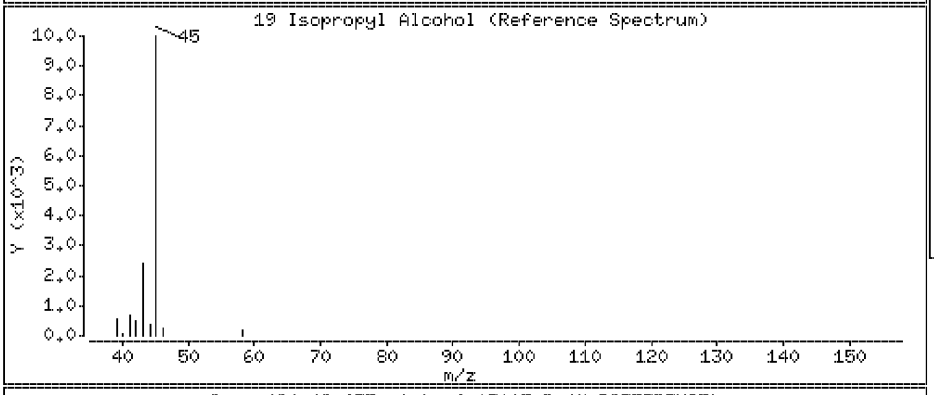
Concentration: 11.8 ppbv

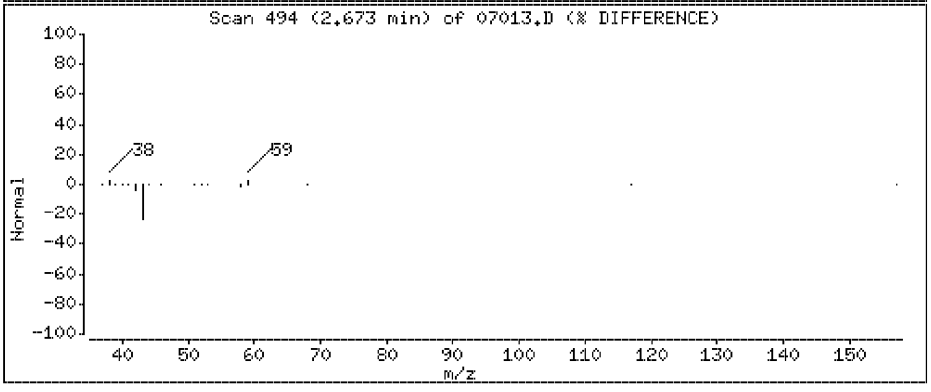












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

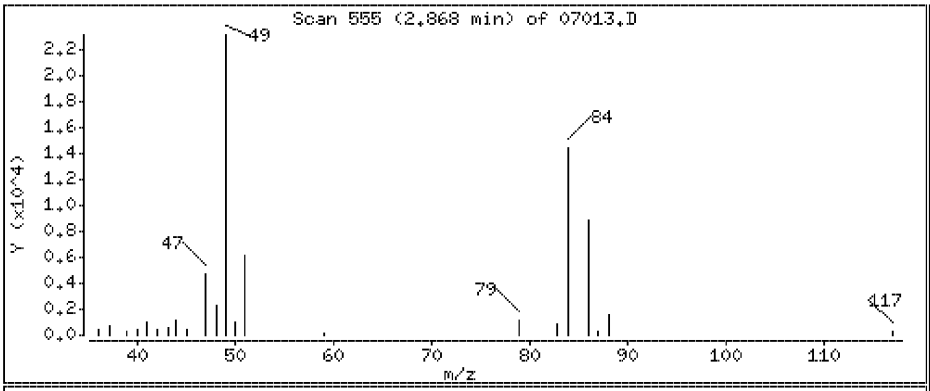
Operator: DR1

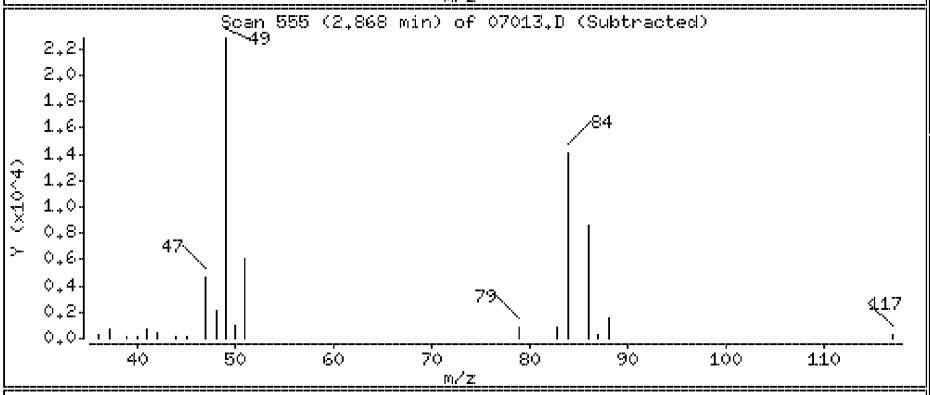
Column phase: J&W DB-5

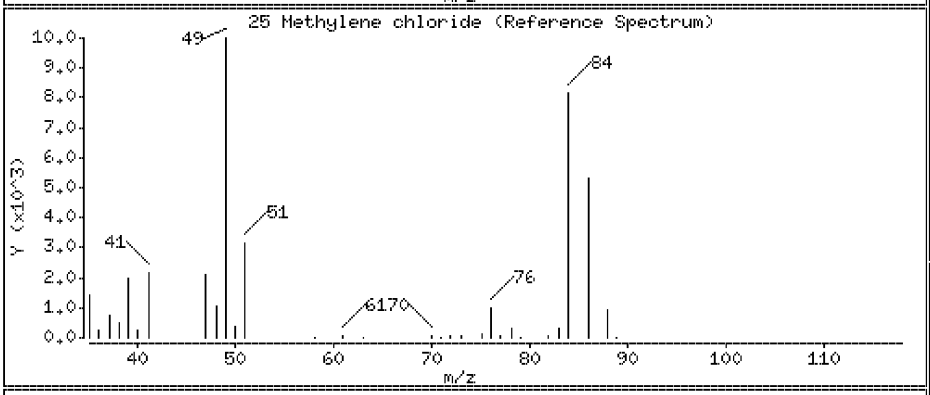
Column diameter: 0.32

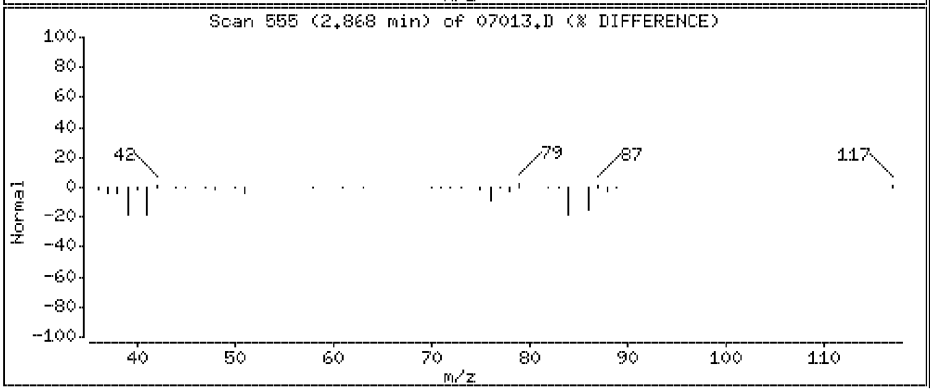
25 Methylene chloride

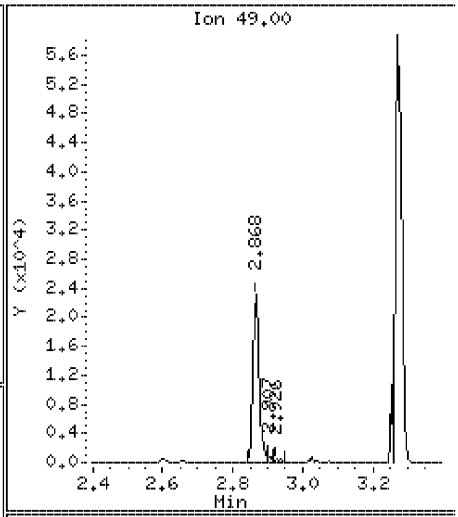
Concentration: 0.846 ppbv

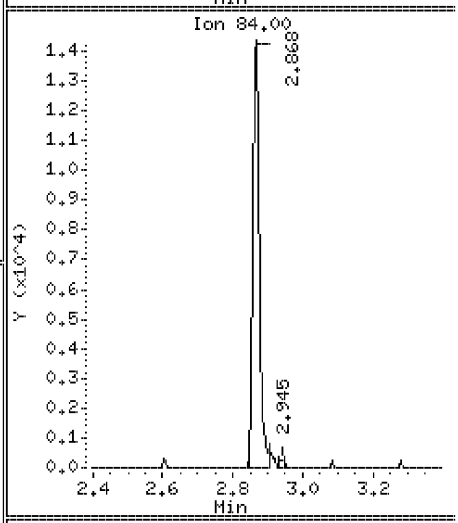


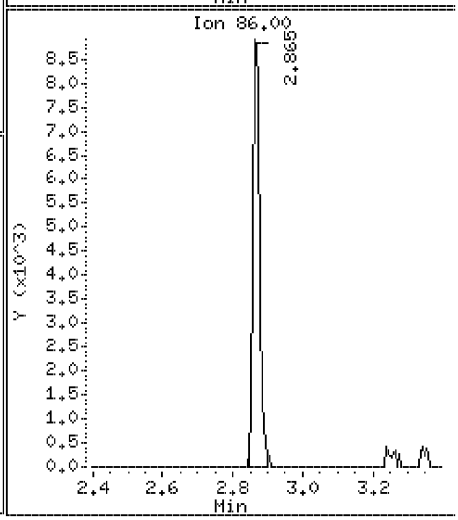












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

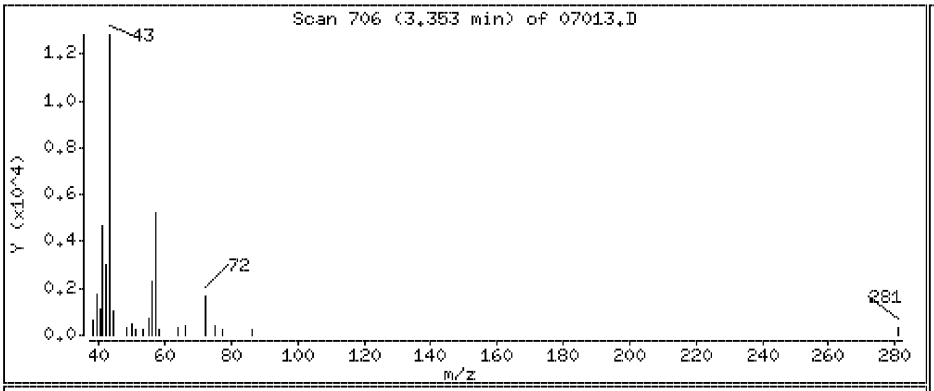
Operator: DR1

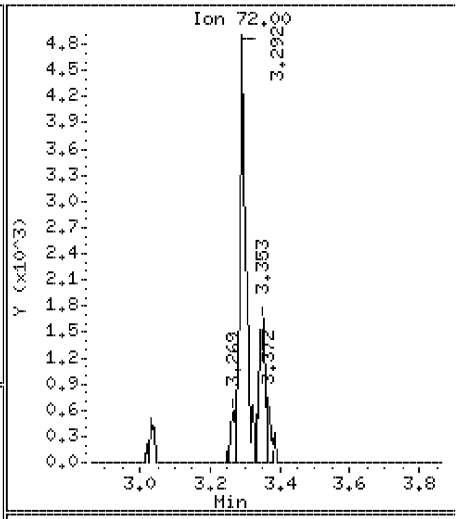
Column phase: J&W DB-5

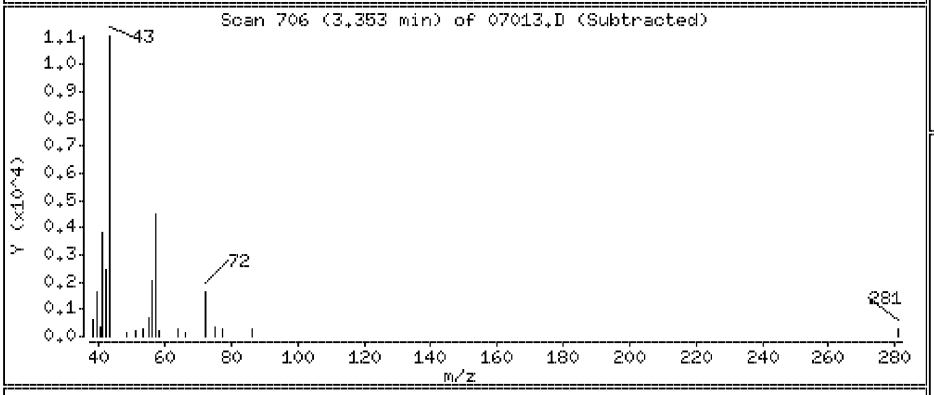
Column diameter: 0.32

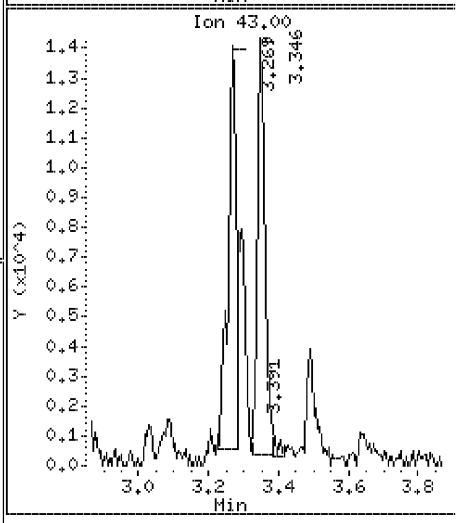
33 Methyl Ethyl Ketone

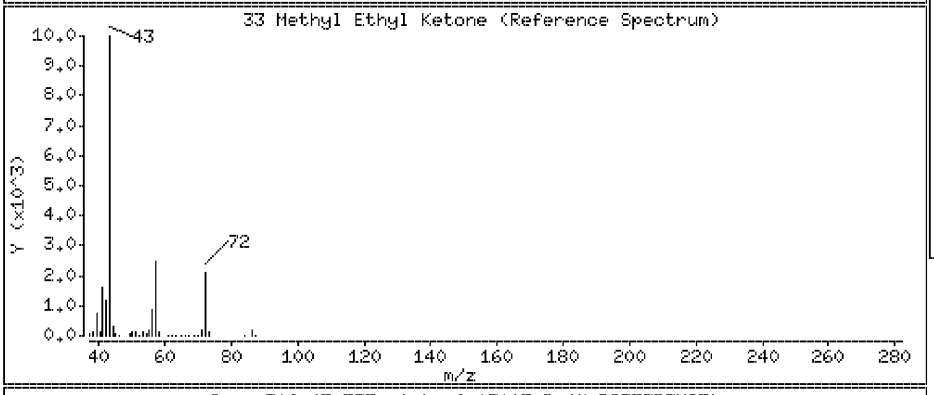
Concentration: 0.361 ppbv

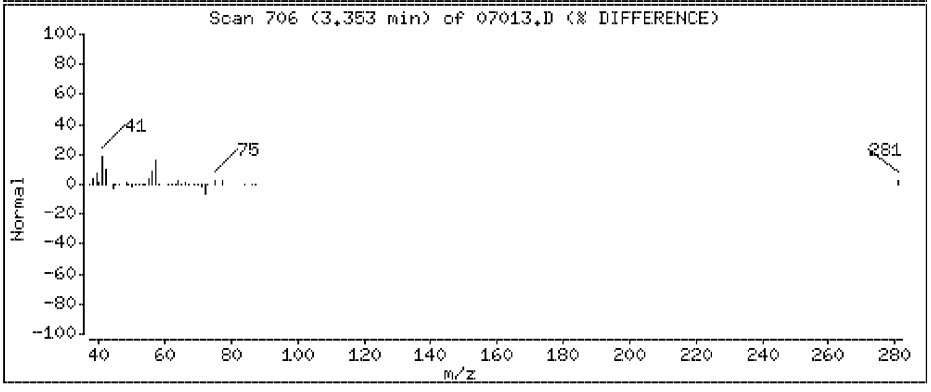












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

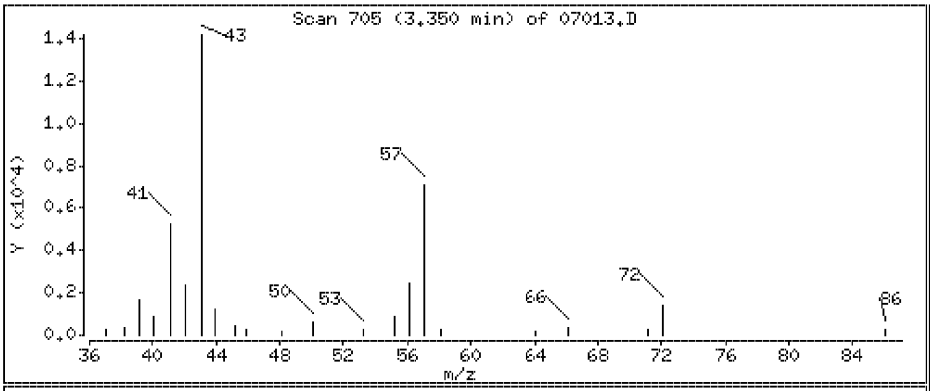
Operator: DR1

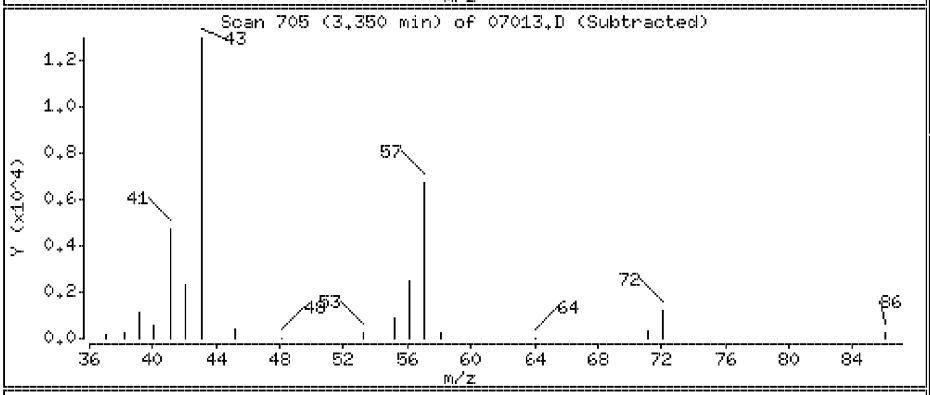
Column phase: J&W DB-5

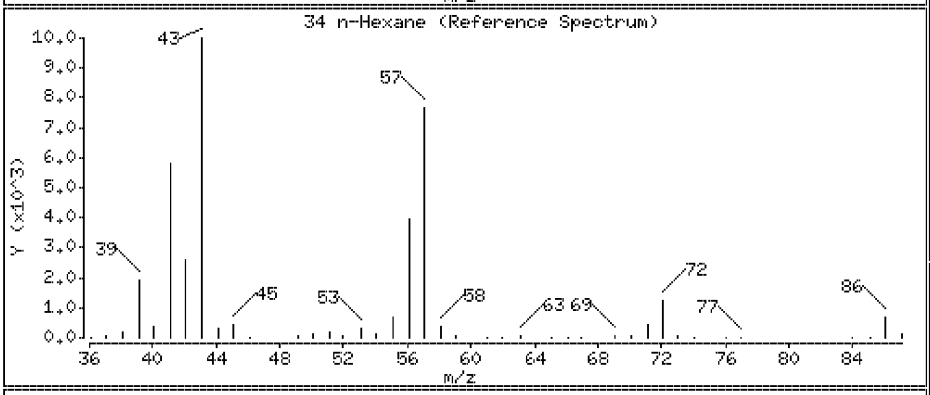
Column diameter: 0.32

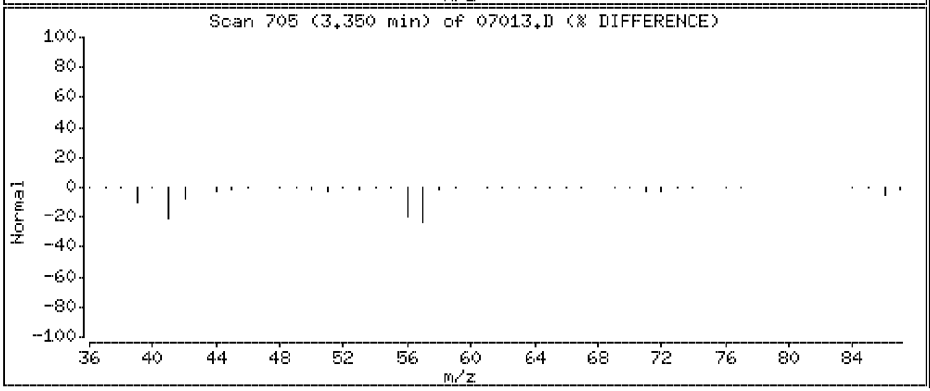
34 n-Hexane

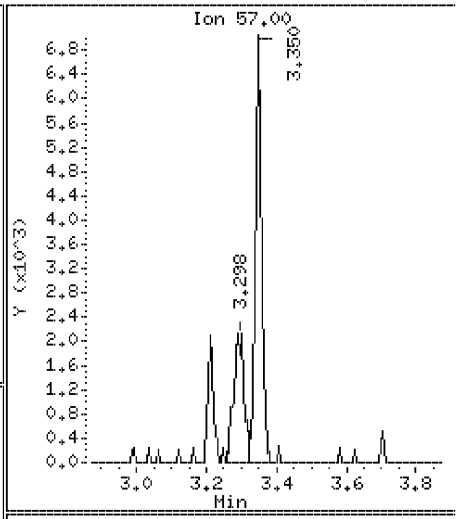
Concentration: 0.386 ppbv

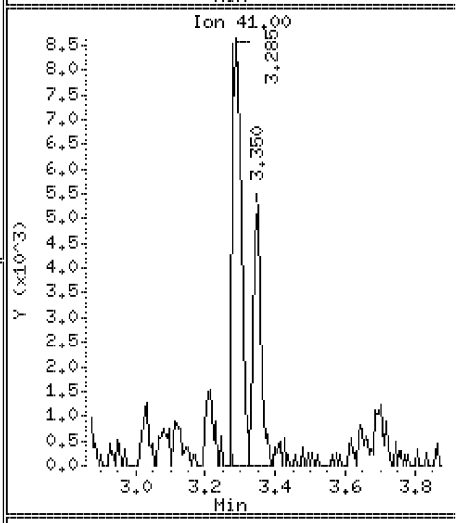


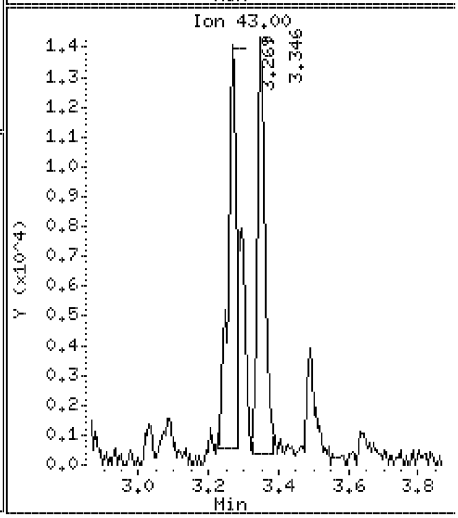












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

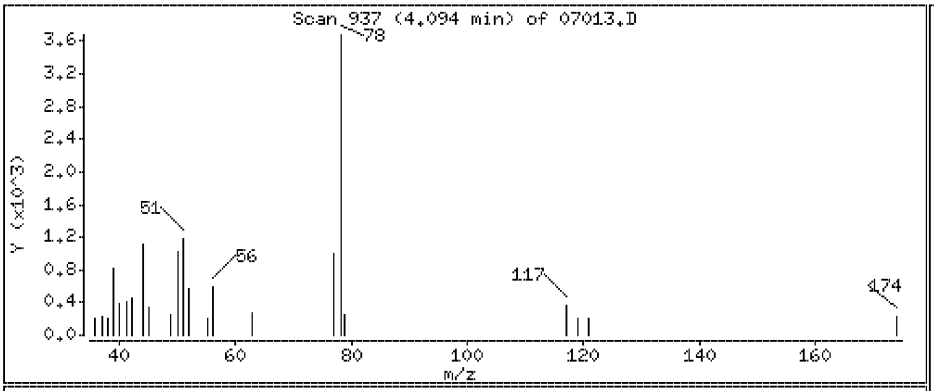
Operator: DR1

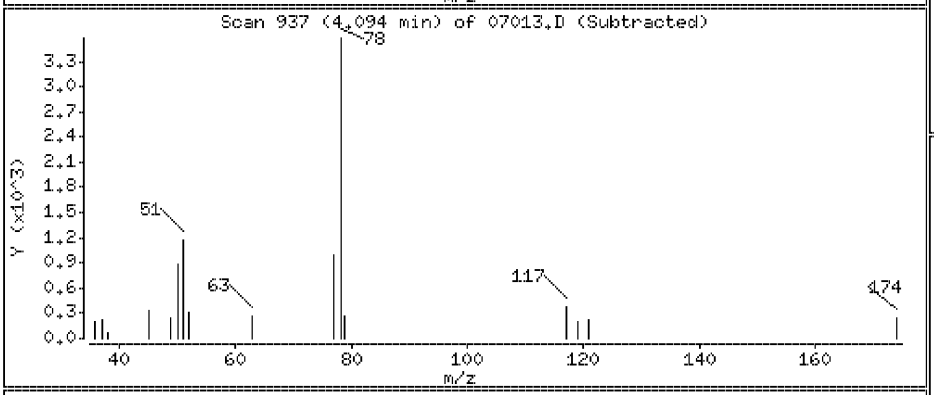
Column phase: J&W DB-5

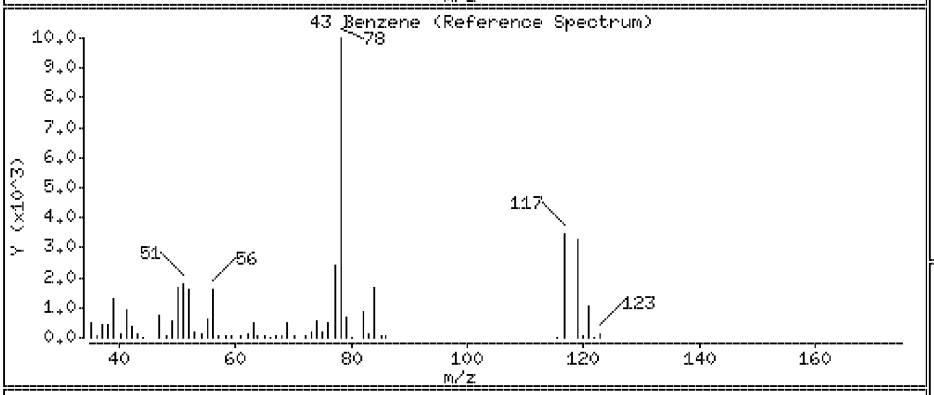
Column diameter: 0.32

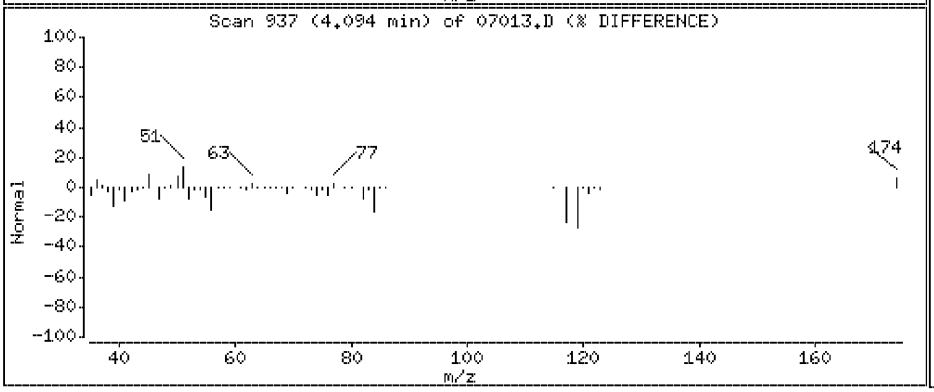
43 Benzene

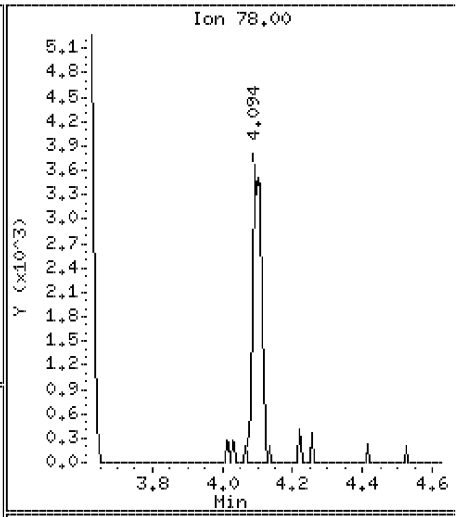
Concentration: 0.150 ppbv

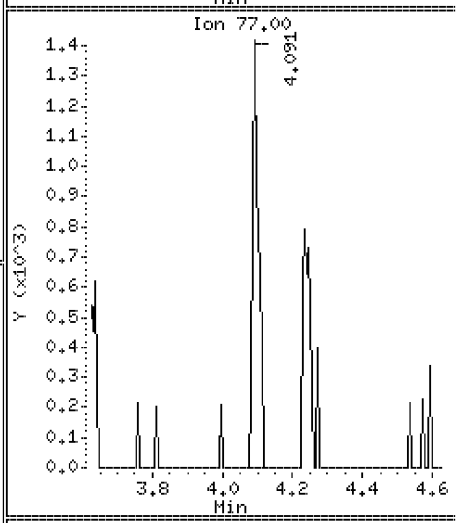


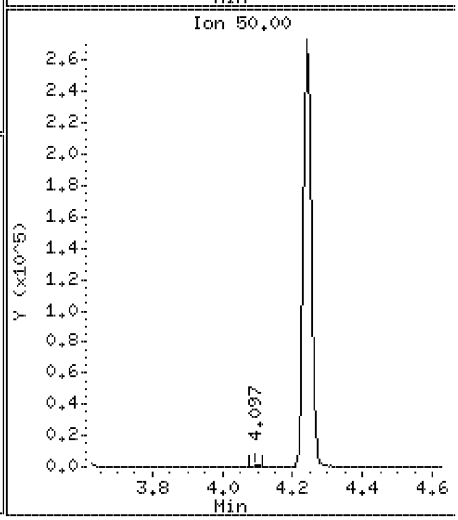












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

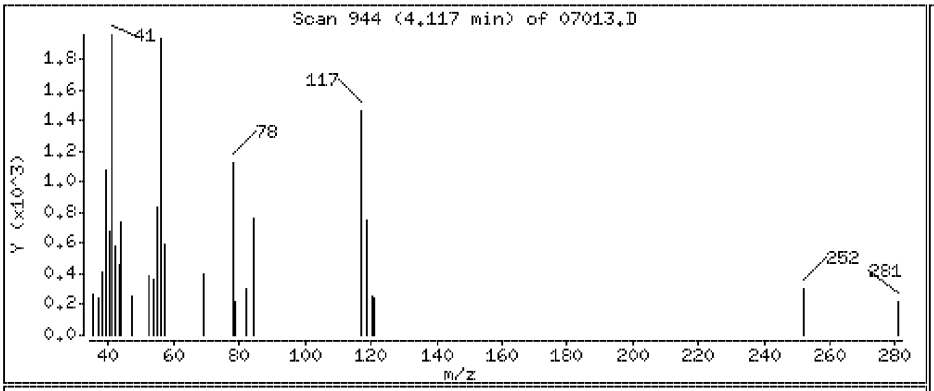
Operator: DR1

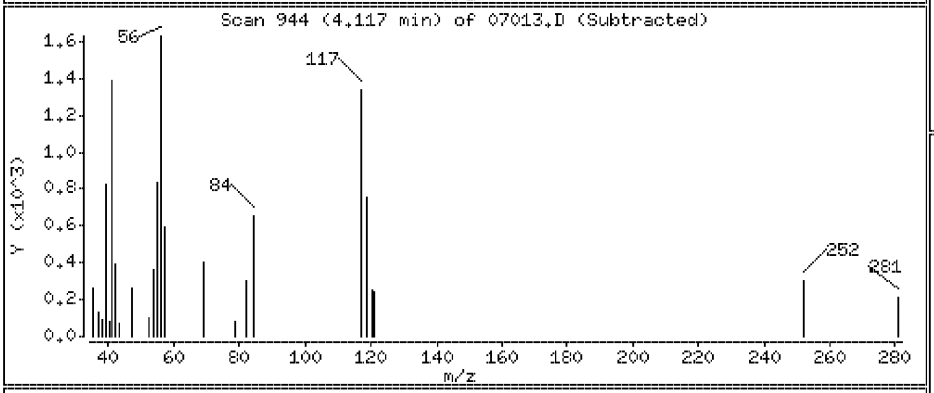
Column phase: J&W DB-5

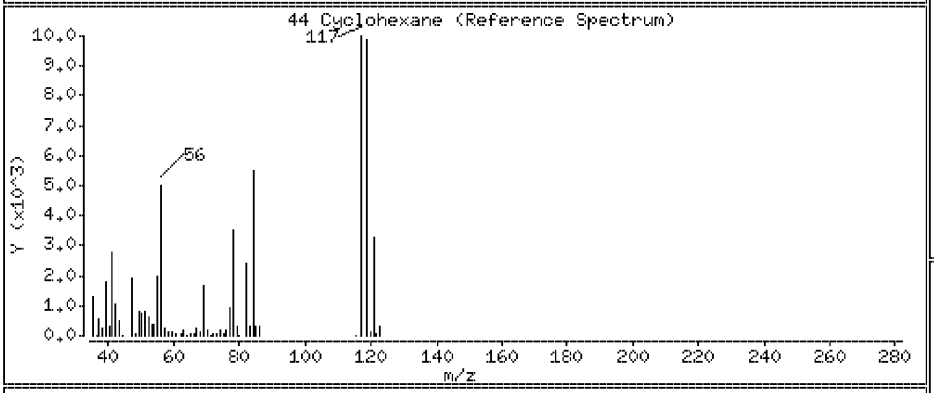
Column diameter: 0.32

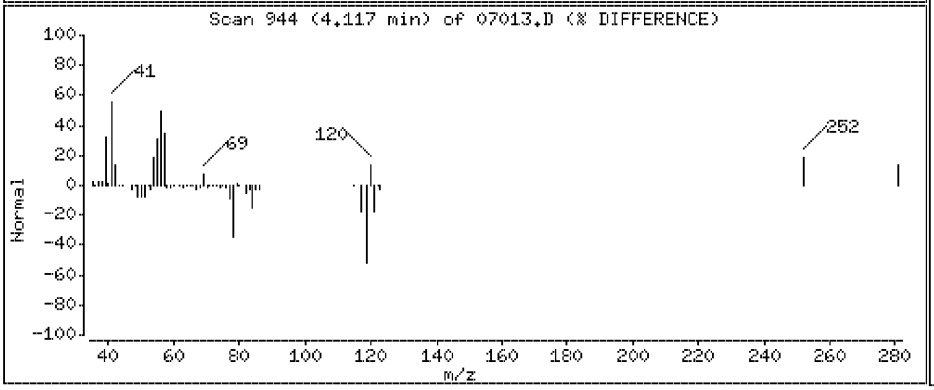
44 Cyclohexane

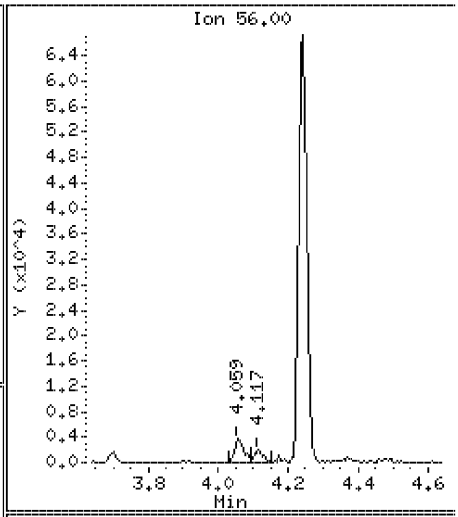
Concentration: 0.158 ppbv

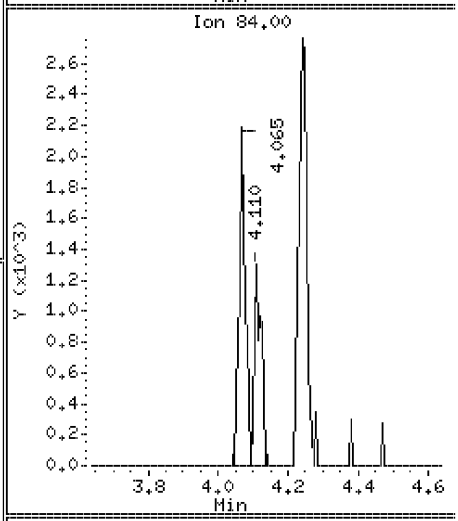


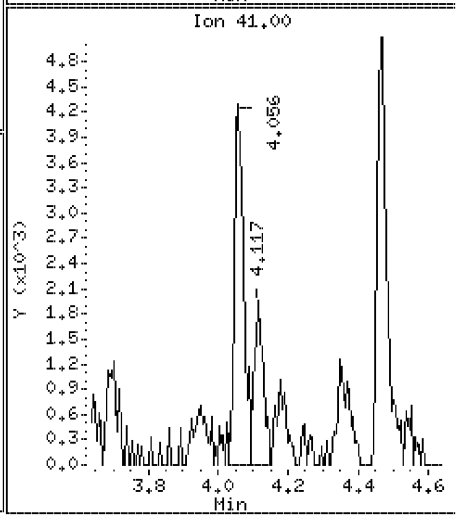












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

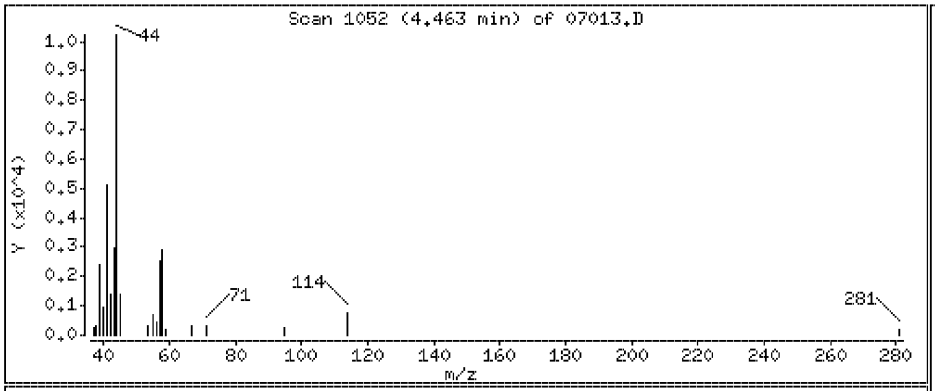
Operator: DR1

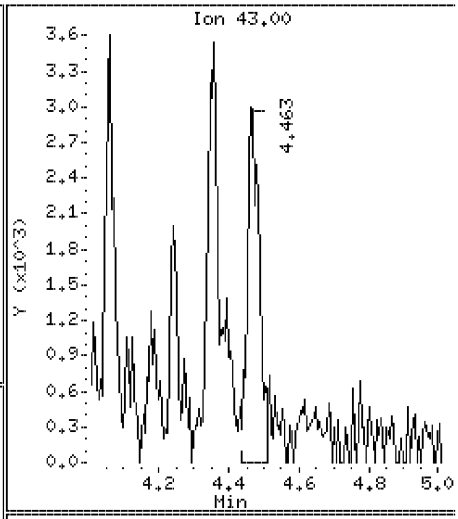
Column phase: J&W DB-5

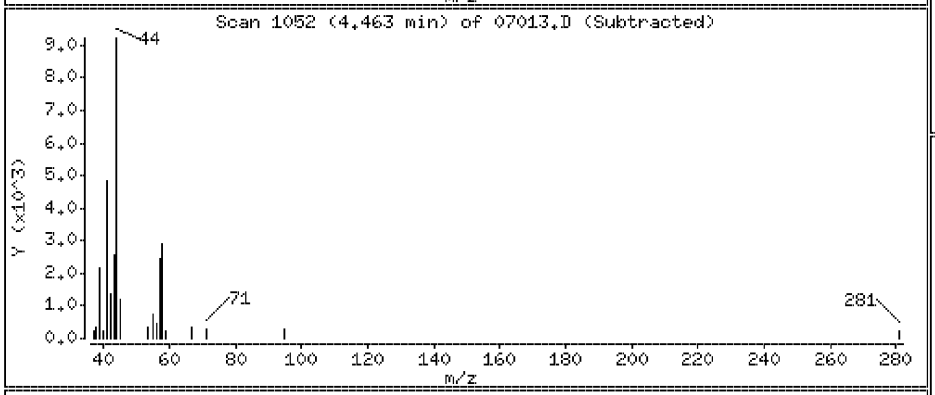
Column diameter: 0.32

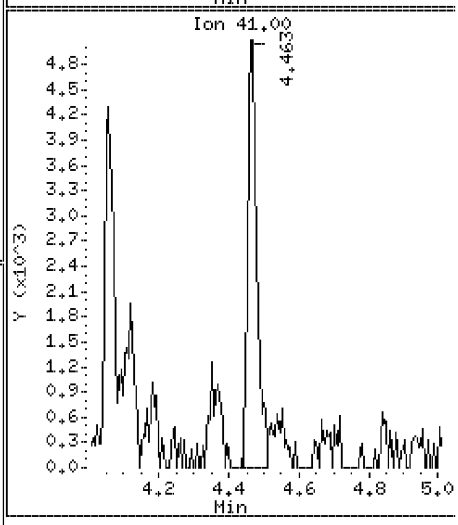
49 Heptane

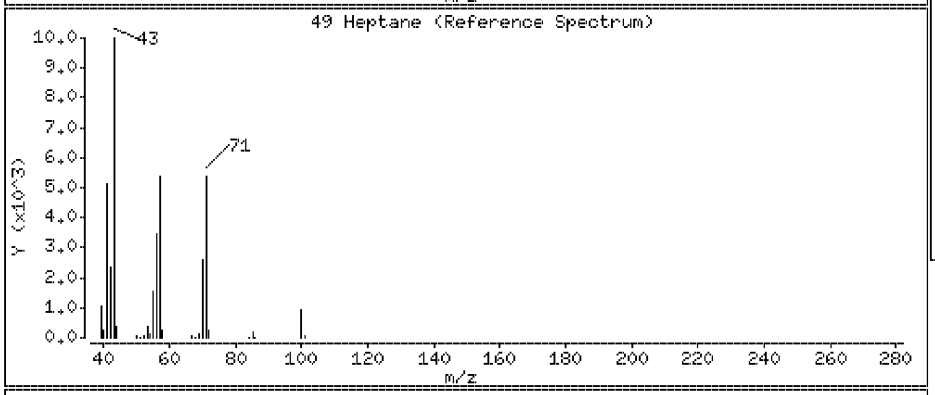
Concentration: 0.209 ppbv

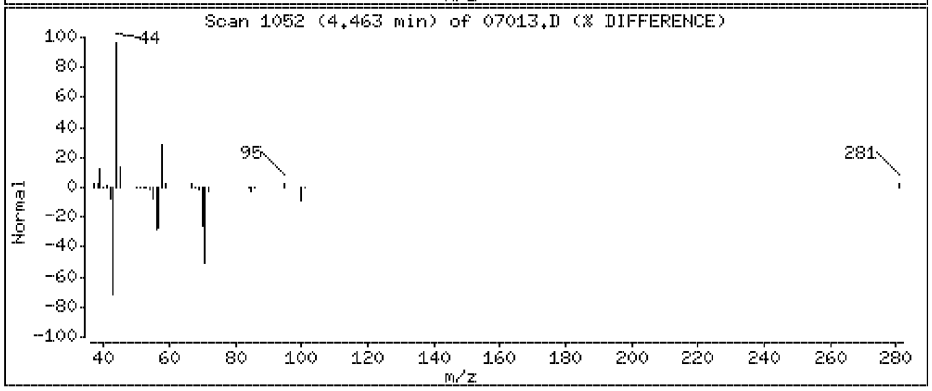












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

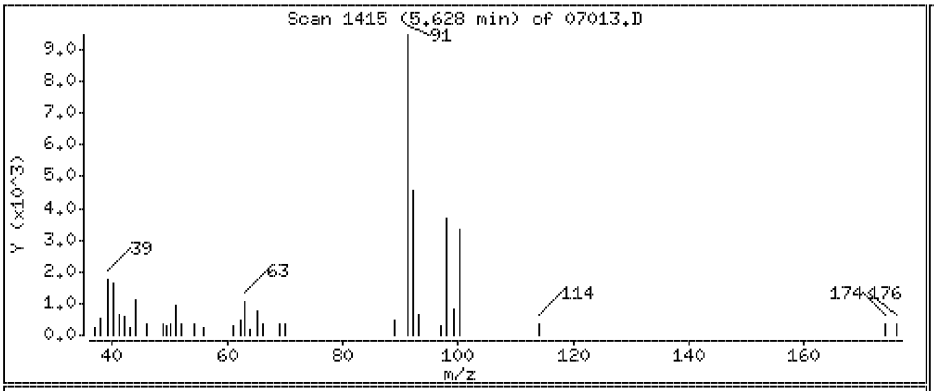
Operator: DR1

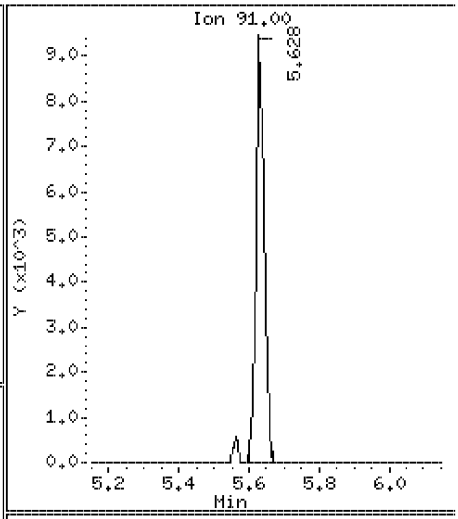
Column phase: J&W DB-5

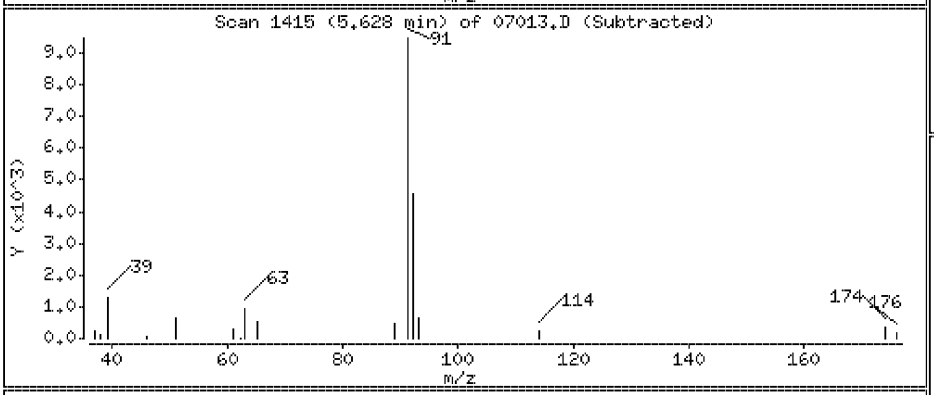
Column diameter: 0.32

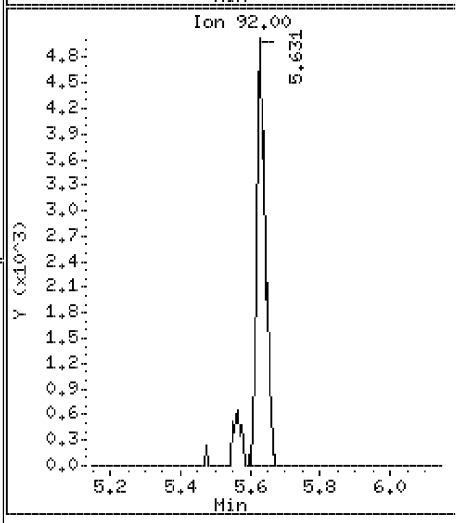
60 Toluene

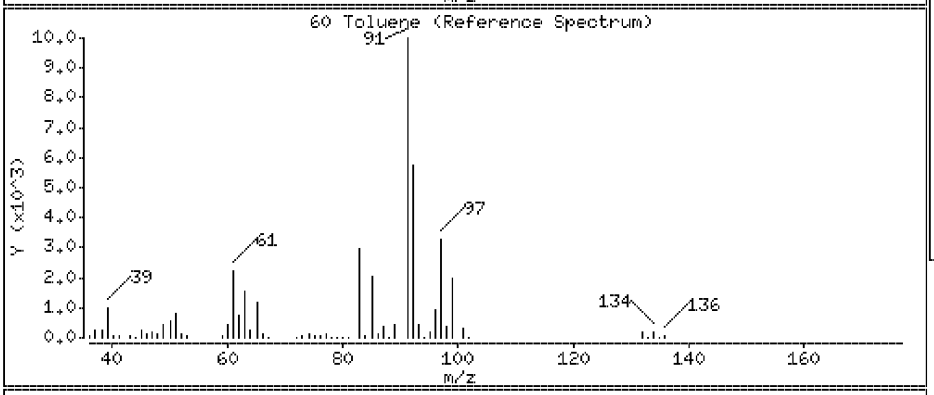
Concentration: 0.273 ppbv

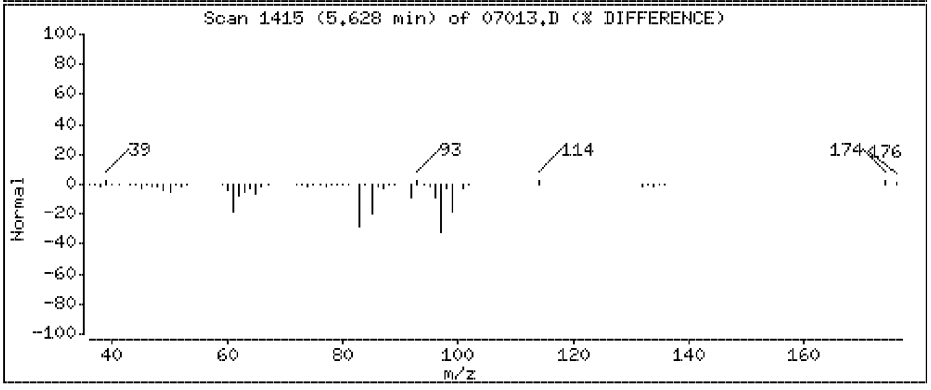












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

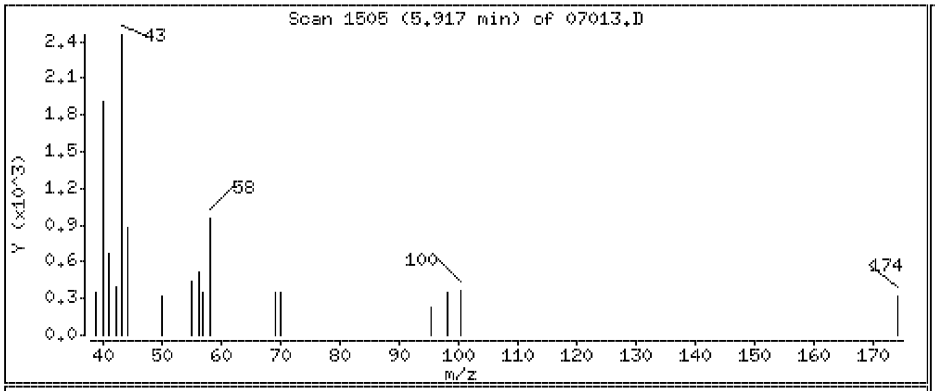
Operator: DR1

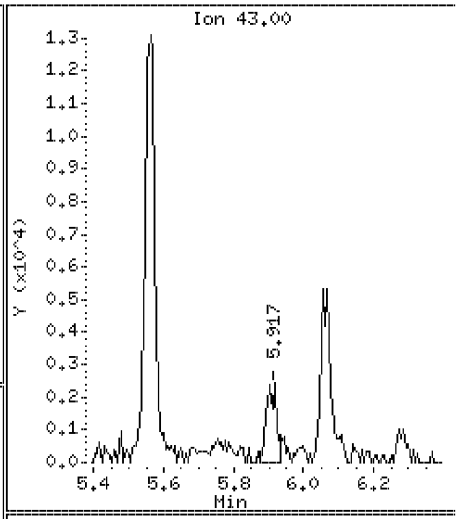
Column phase: J&W DB-5

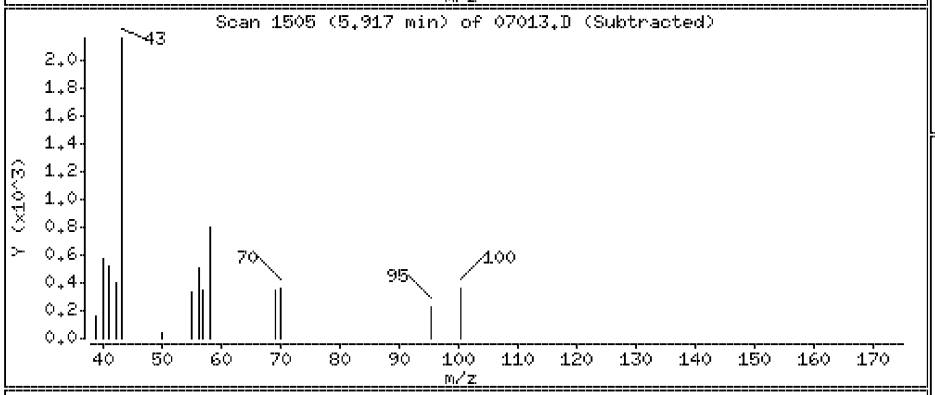
Column diameter: 0.32

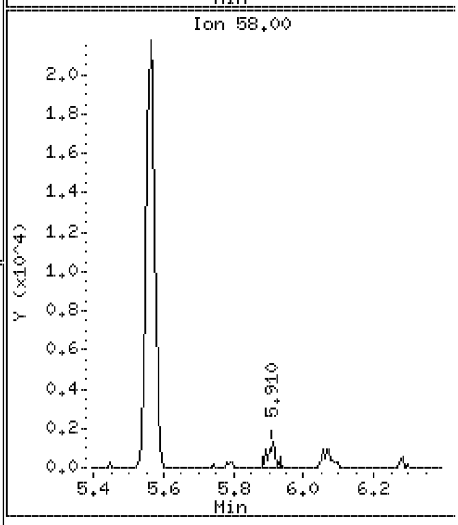
62 Methyl Butyl Ketone

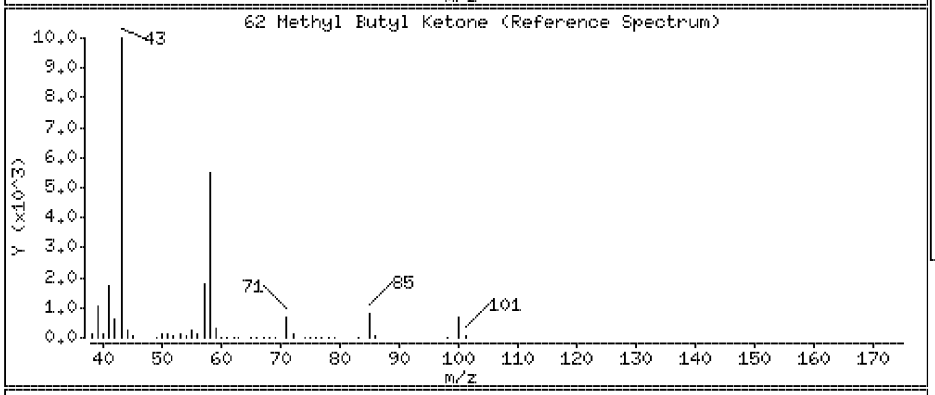
Concentration: 0.131 ppbv

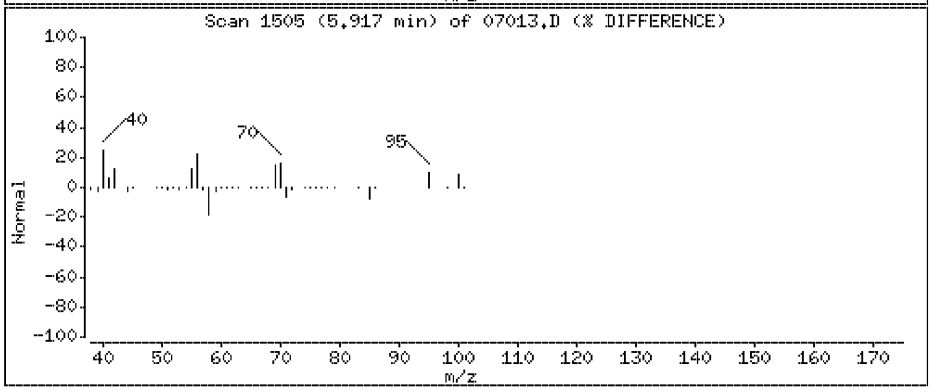












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

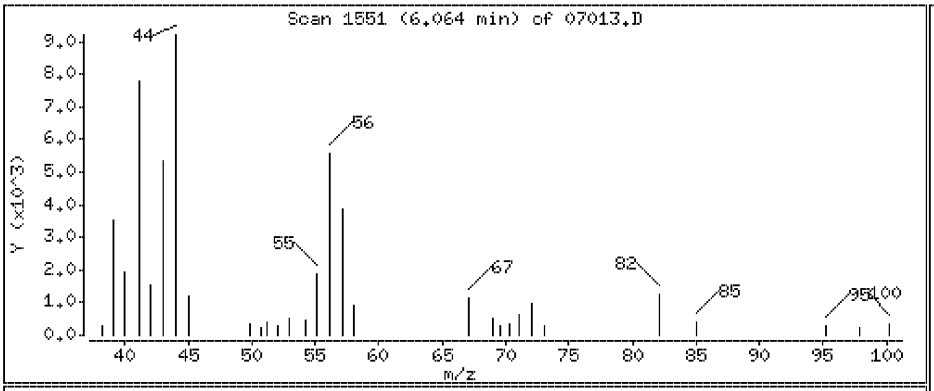
Operator: DR1

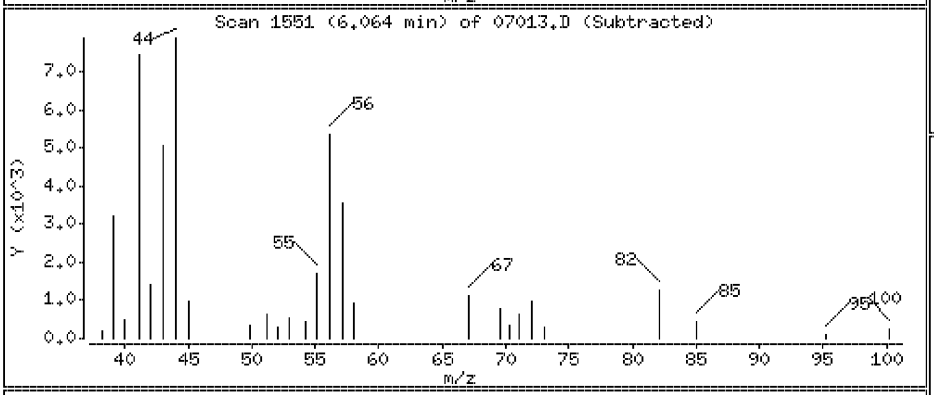
Column phase: J&W DB-5

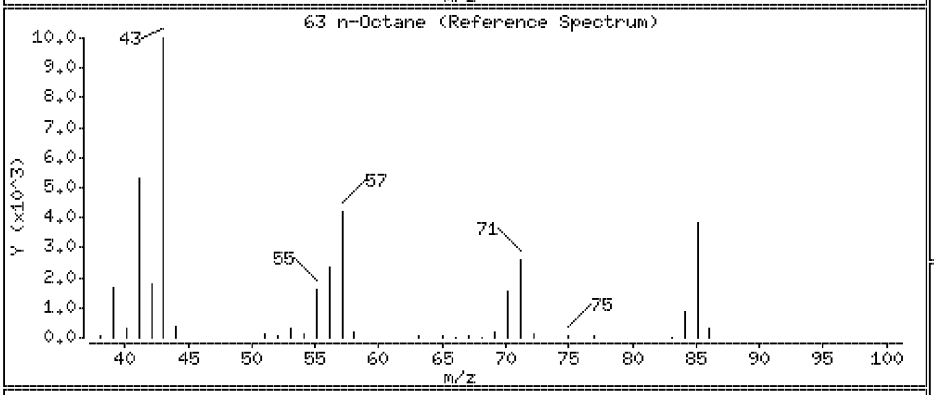
Column diameter: 0.32

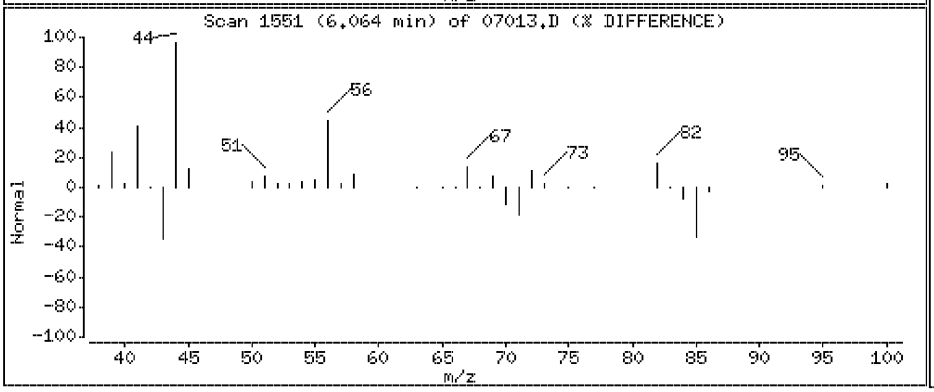
63 n-Octane

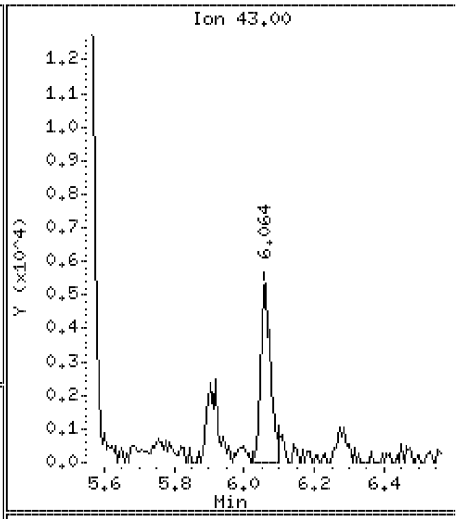
Concentration: 0.283 ppbv

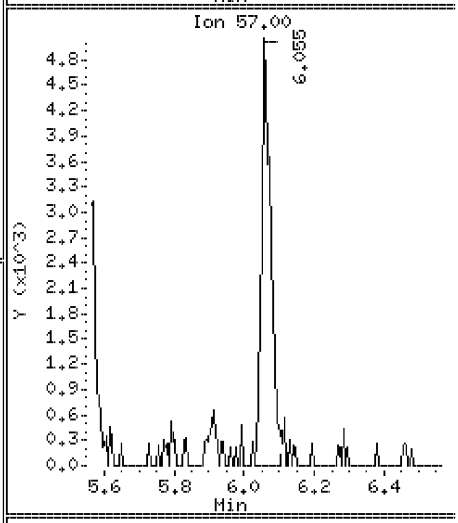


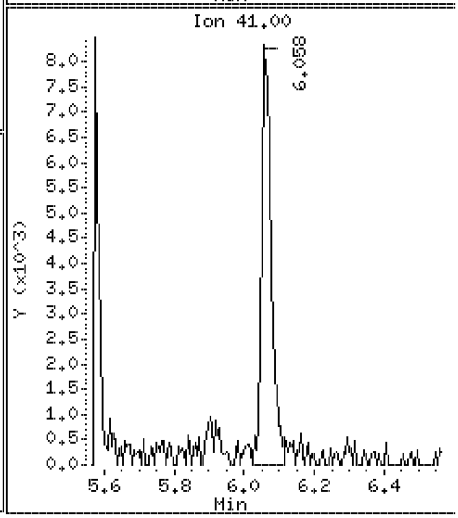












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

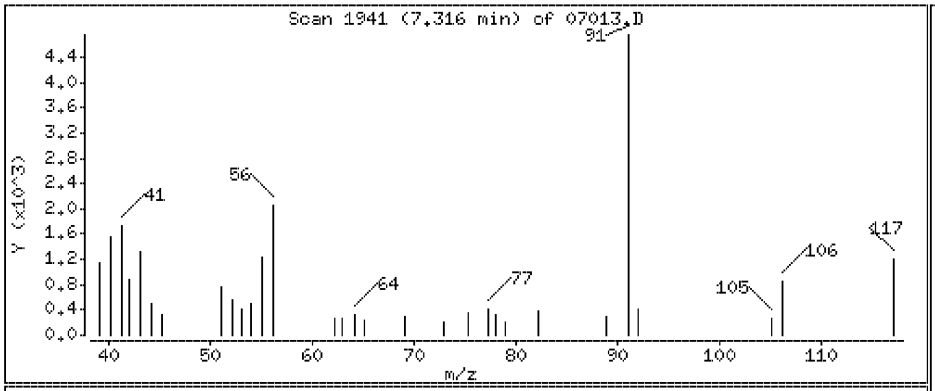
Operator: DR1

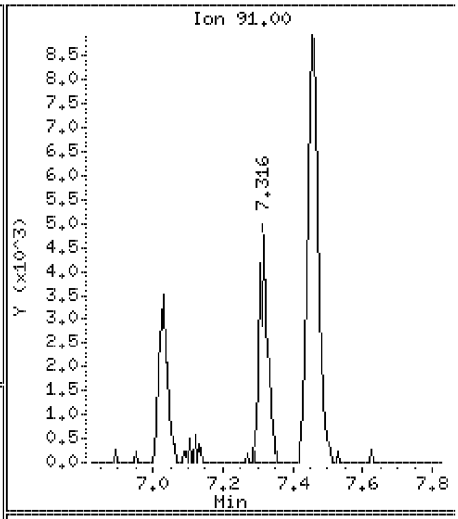
Column phase: J&W DB-5

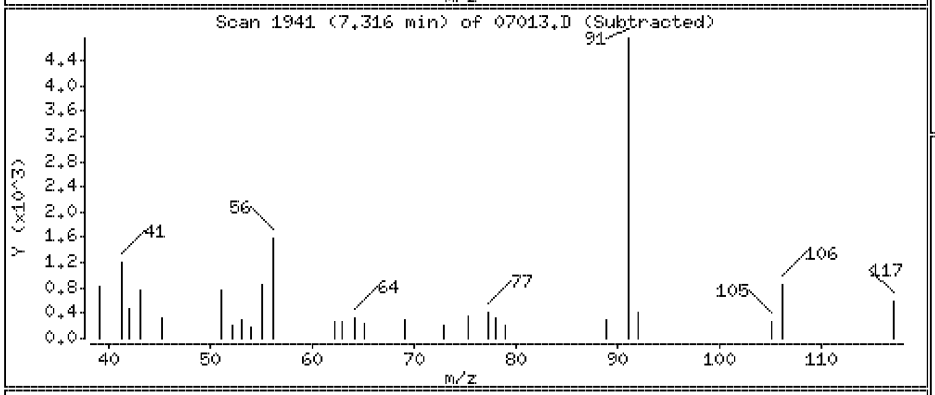
Column diameter: 0.32

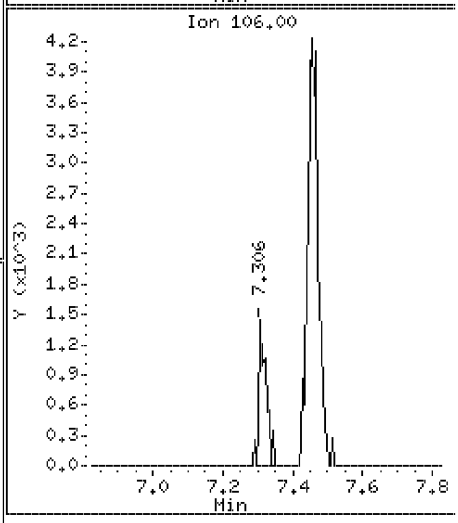
69 Ethyl Benzene

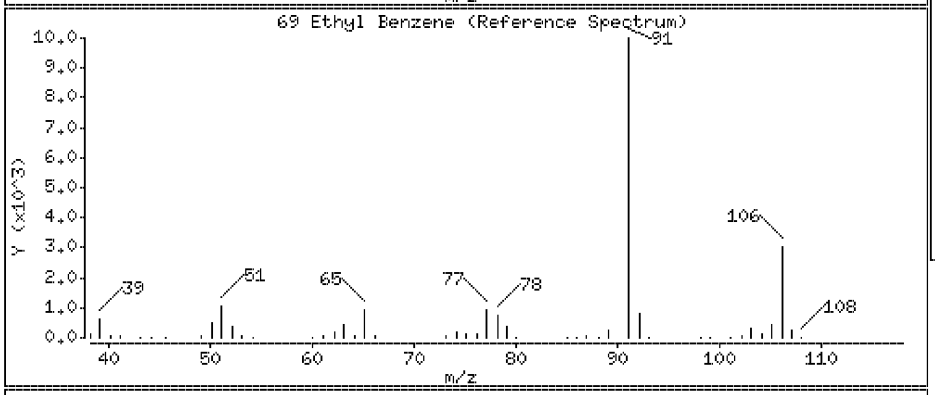
Concentration: 0.121 ppbv

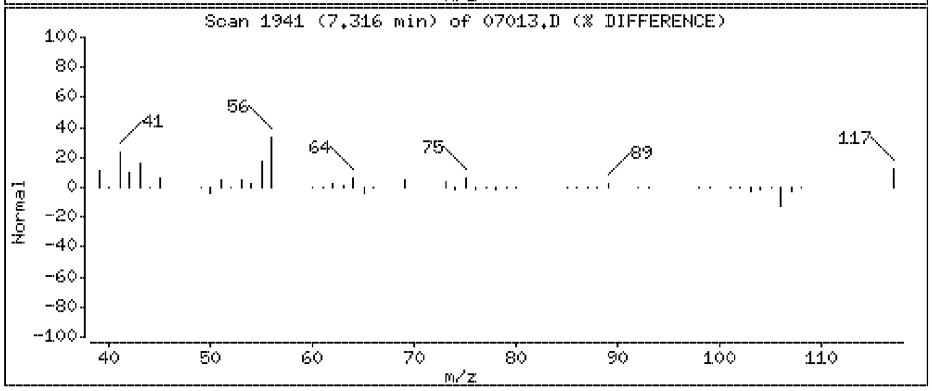












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

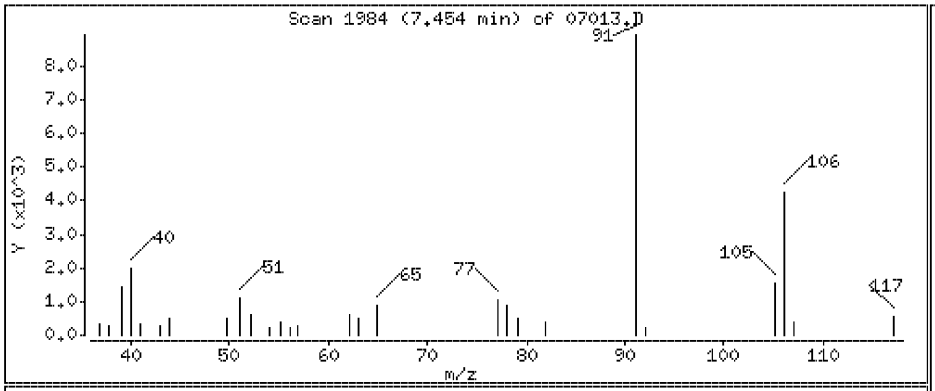
Operator: DR1

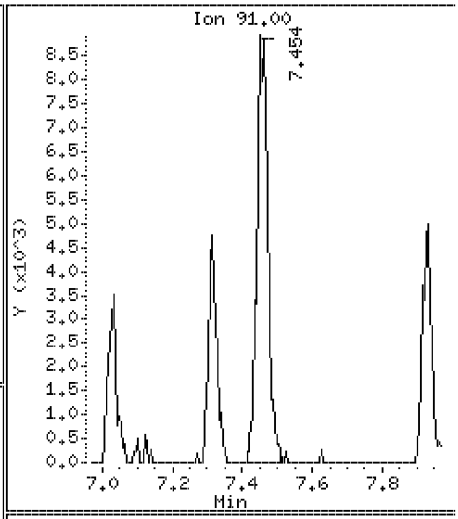
Column phase: J&W DB-5

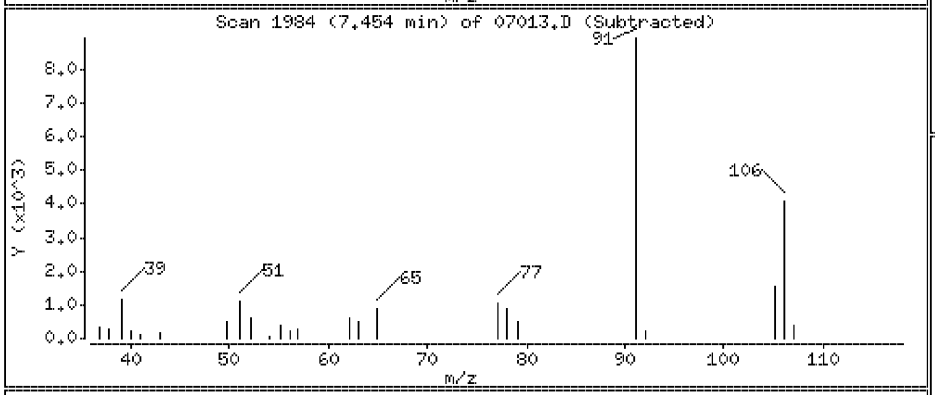
Column diameter: 0.32

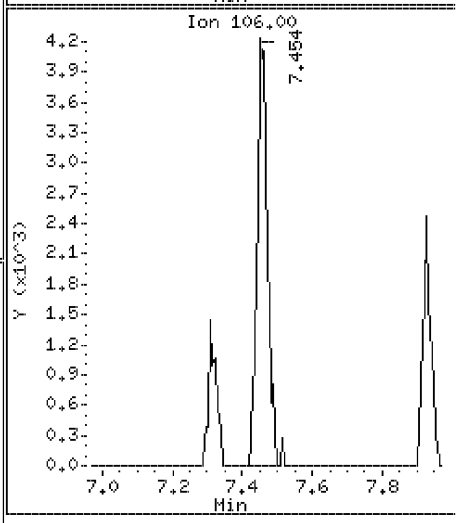
70 m&p-Xylene

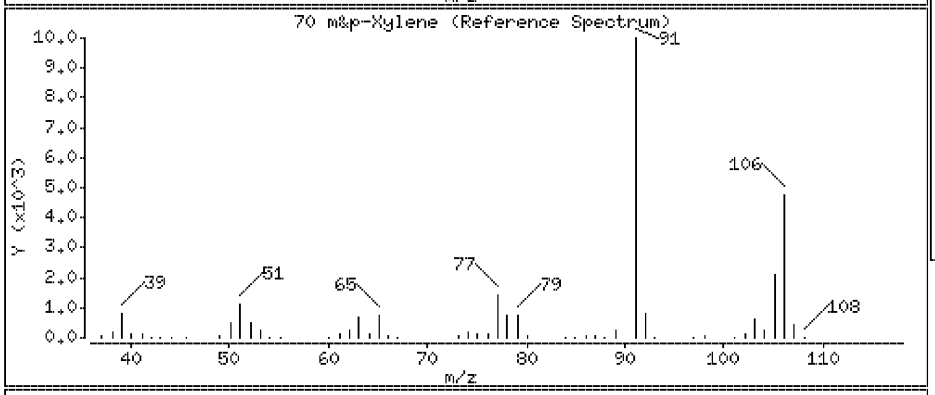
Concentration: 0.168 ppbv

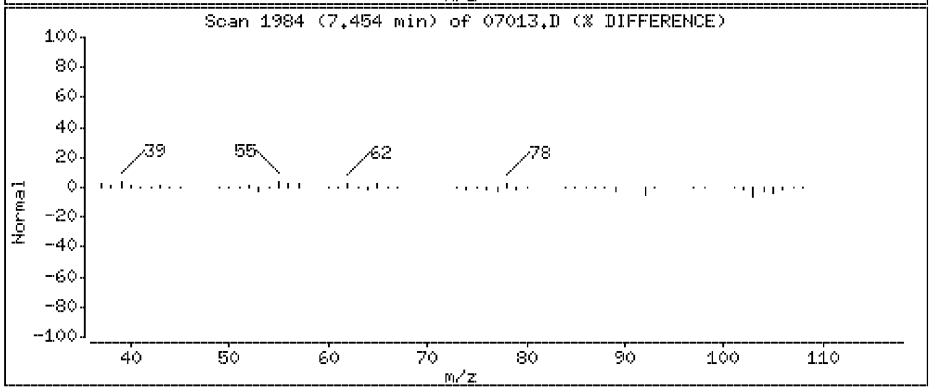












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

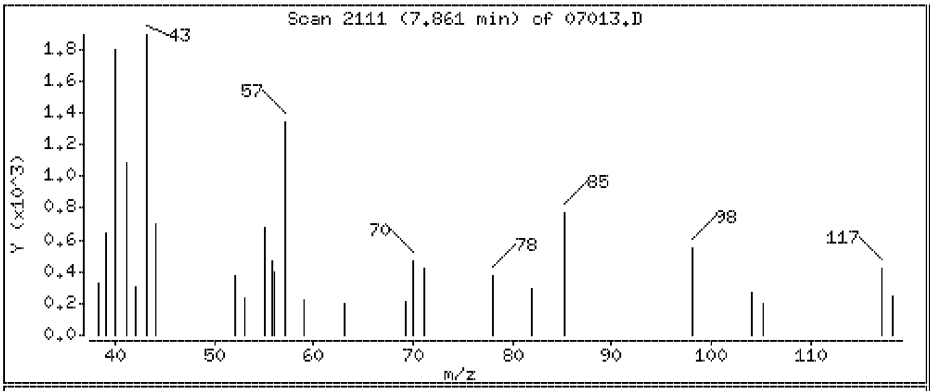
Operator: DR1

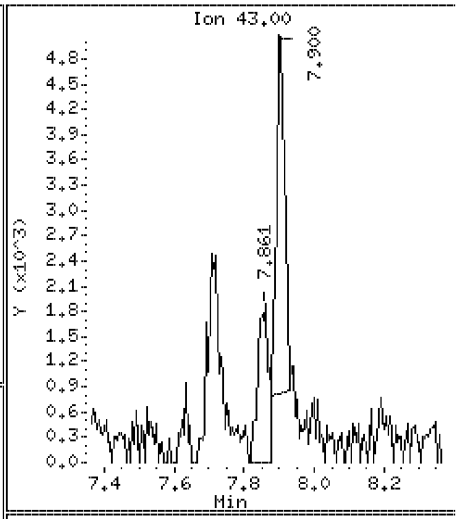
Column phase: J&W DB-5

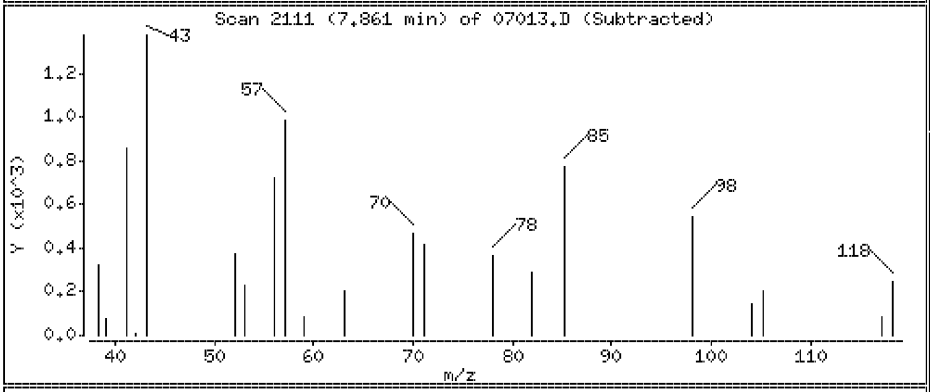
Column diameter: 0.32

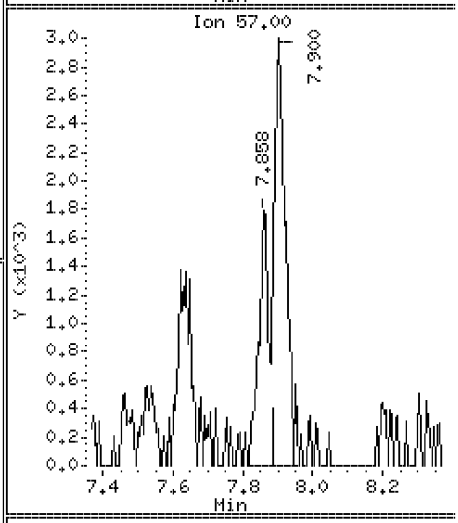
72 n-Nonane

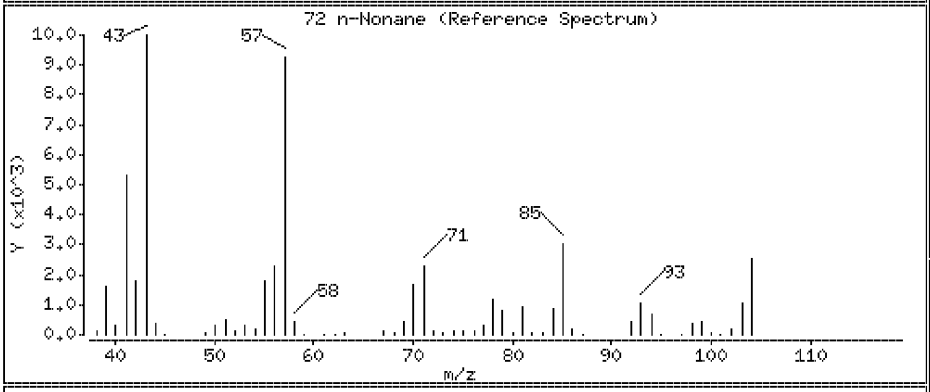
Concentration: 0.127 ppbv

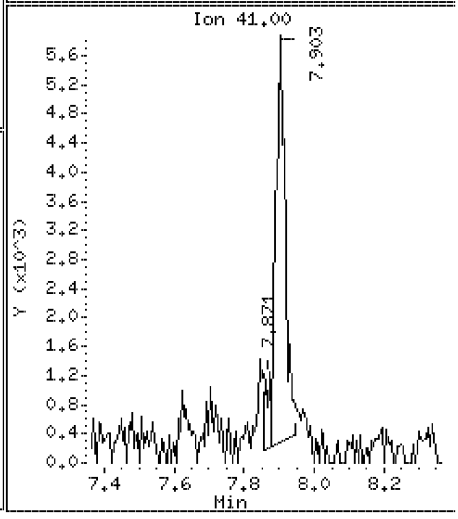


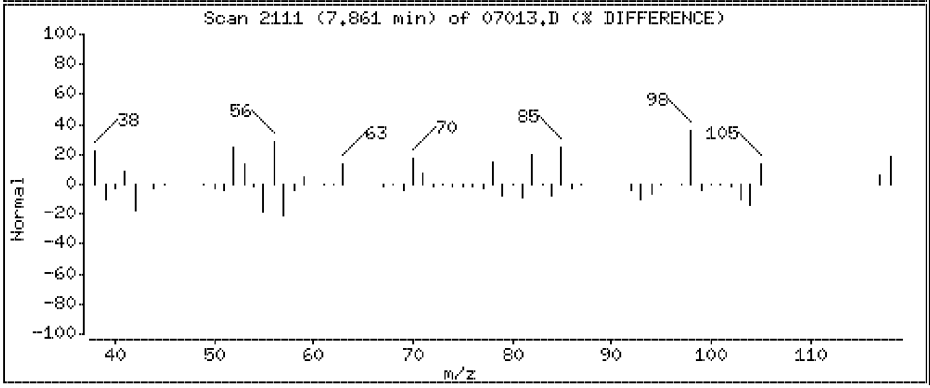












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

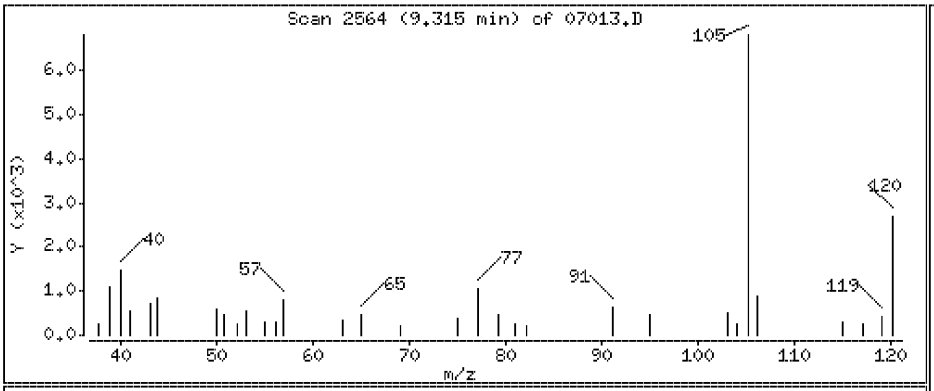
Operator: DR1

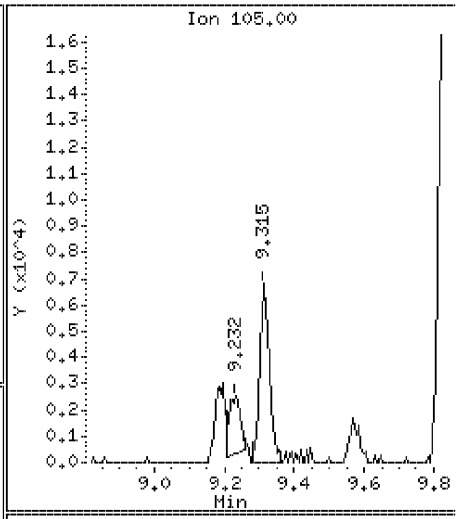
Column phase: J&W DB-5

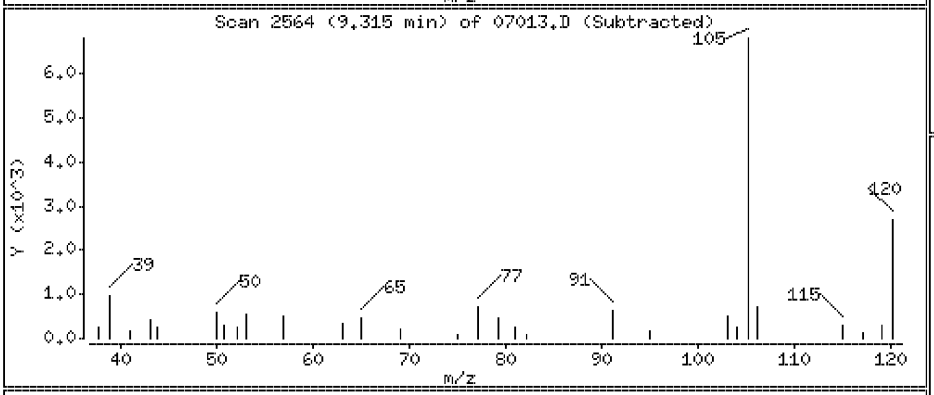
Column diameter: 0.32

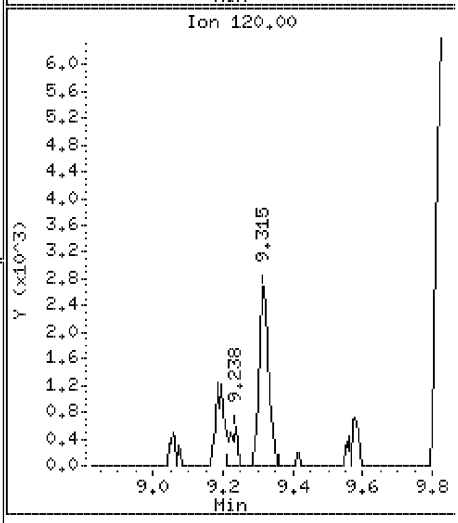
79 1,3,5-Trimethylbenzene

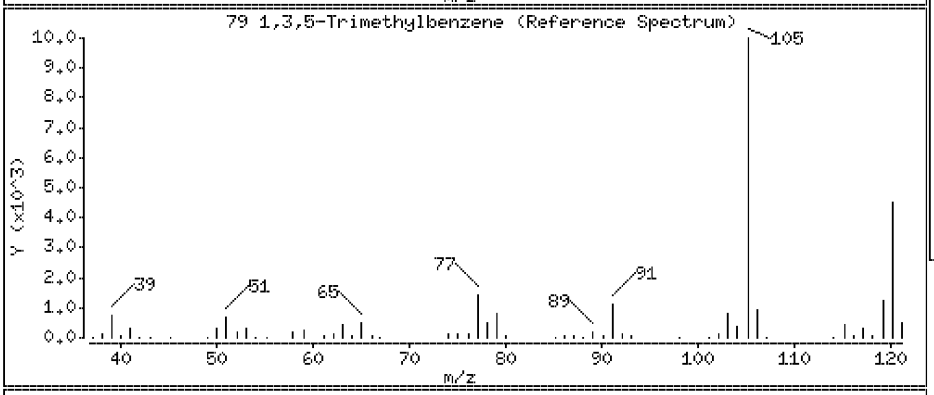
Concentration: 0.187 ppbv

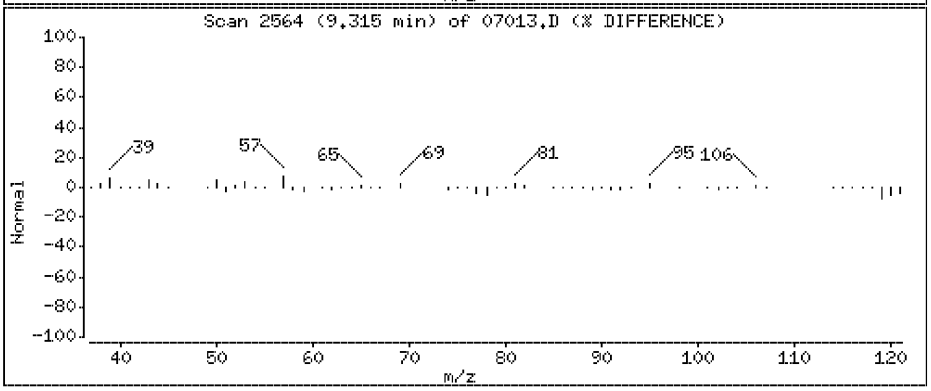












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

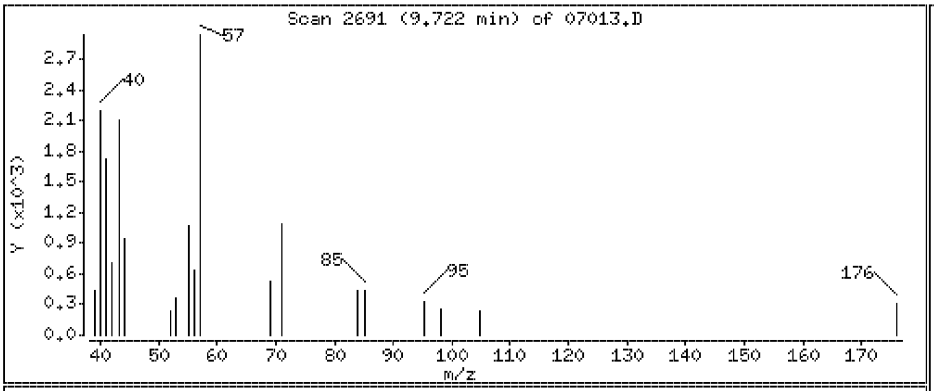
Operator: DR1

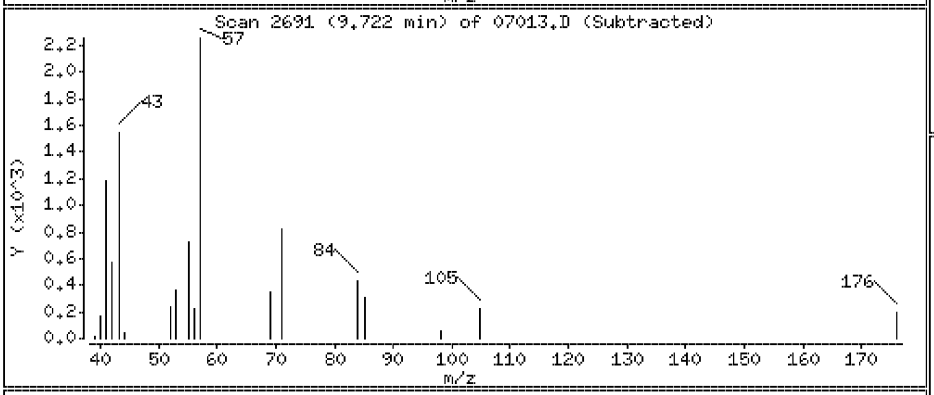
Column phase: J&W DB-5

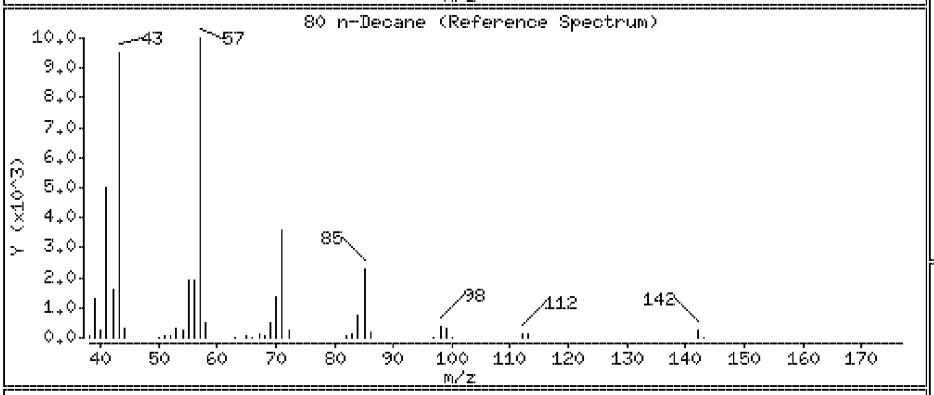
Column diameter: 0.32

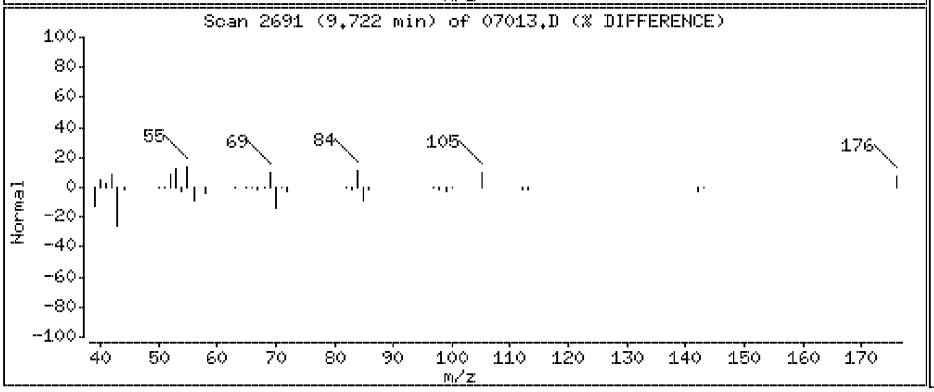
80 n-Decane

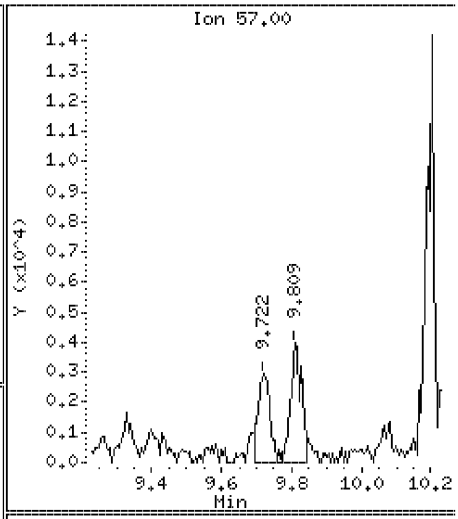
Concentration: 0.222 ppbv

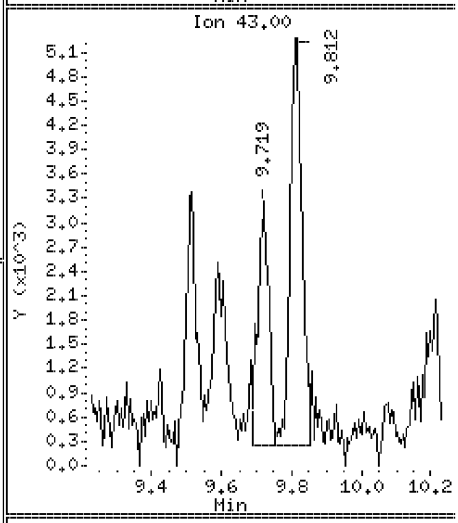


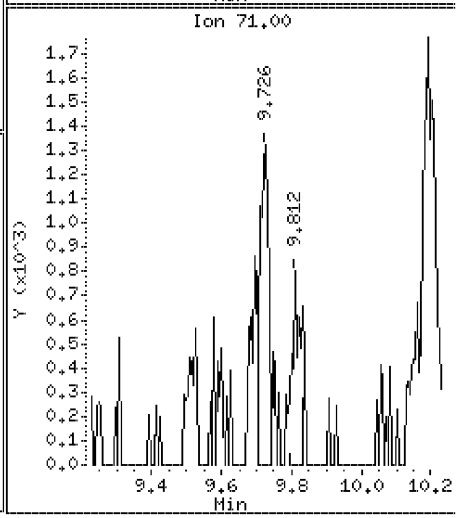












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

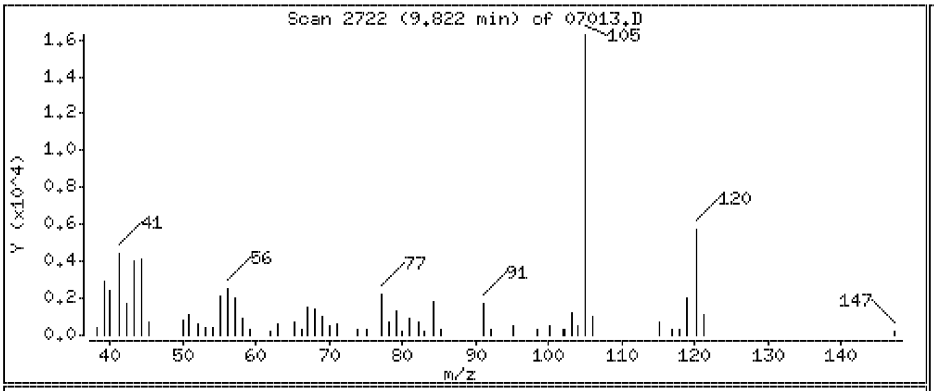
Operator: DR1

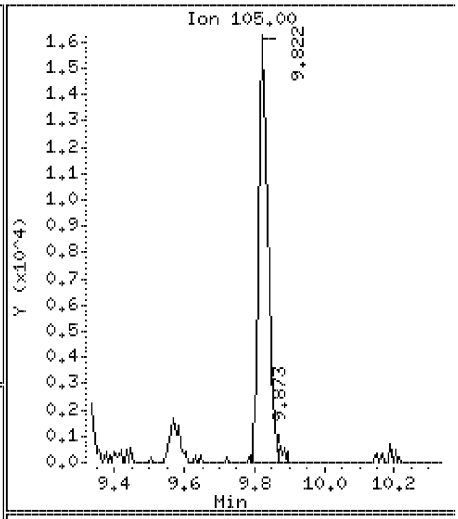
Column phase: J&W DB-5

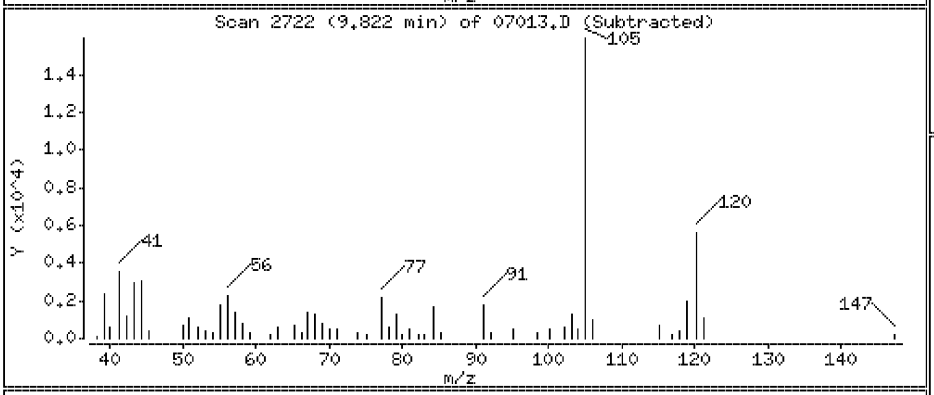
Column diameter: 0.32

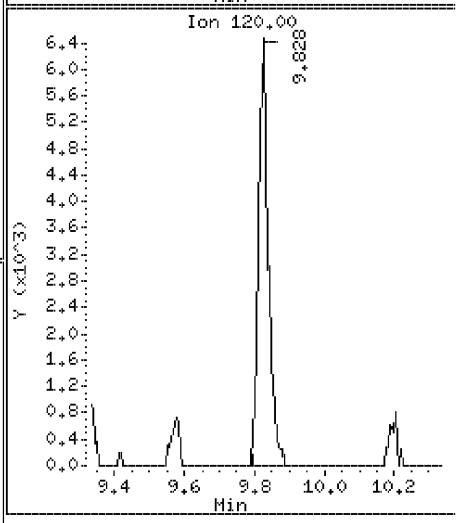
82 1,2,4-Trimethylbenzene

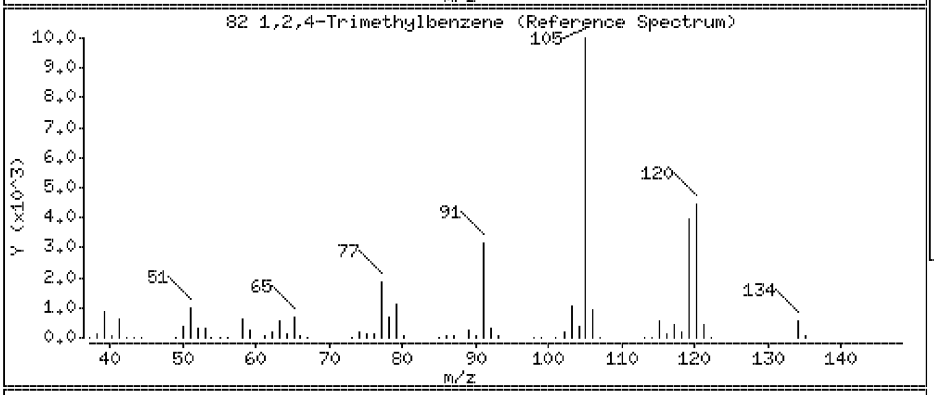
Concentration: 0.411 ppbv

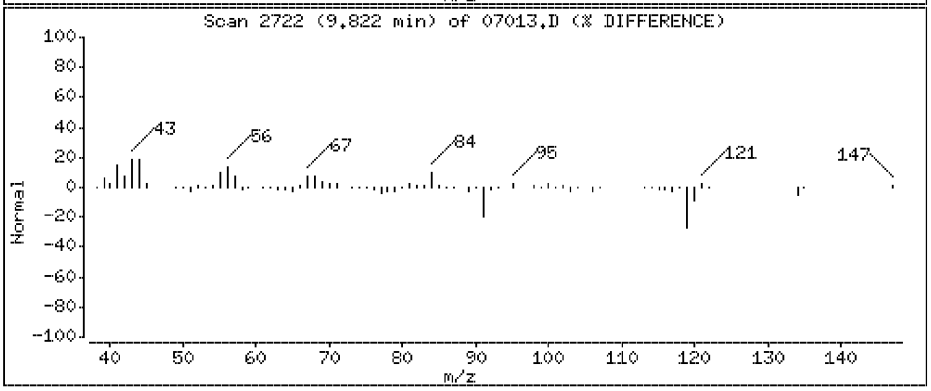












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

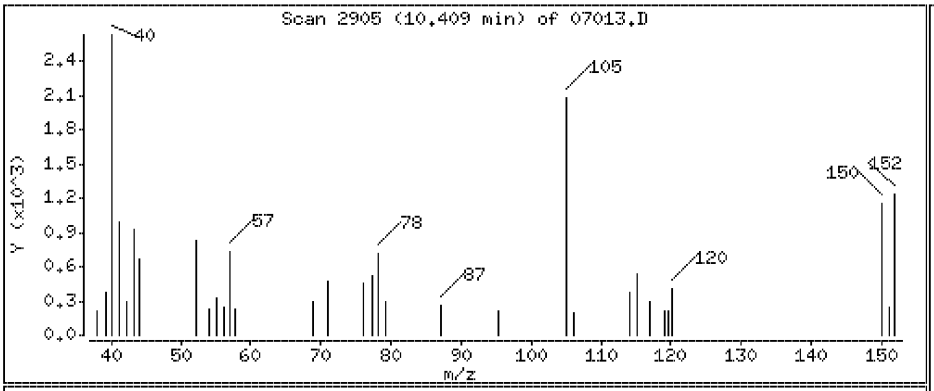
Operator: DR1

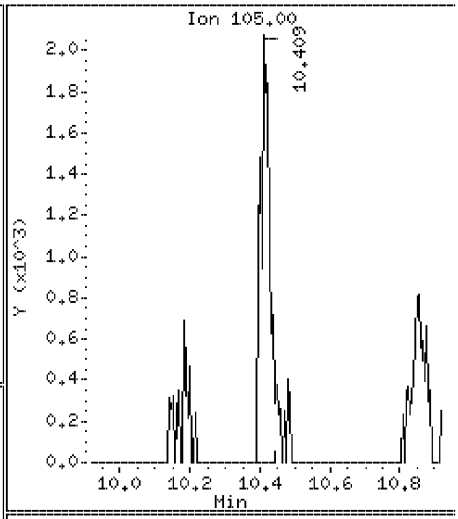
Column phase: J&W DB-5

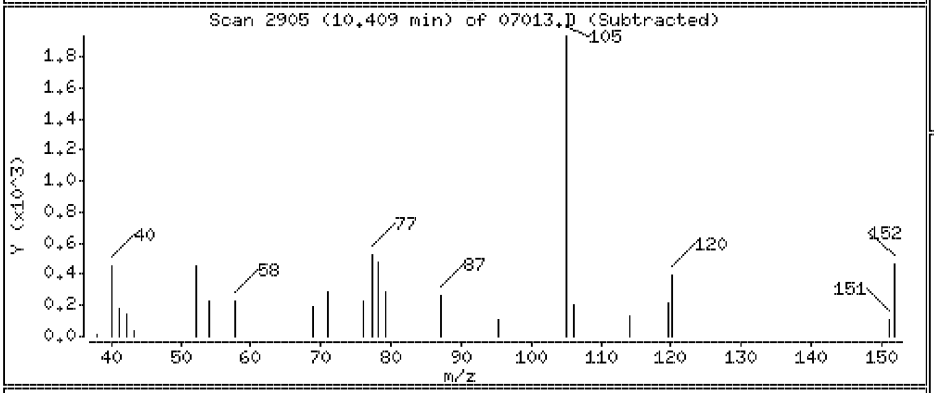
Column diameter: 0.32

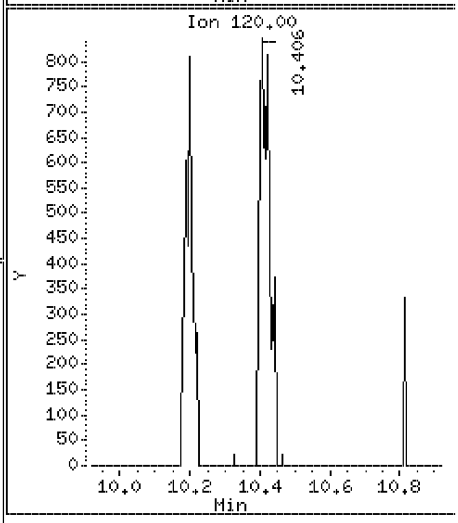
89 1,2,3-Trimethylbenzene

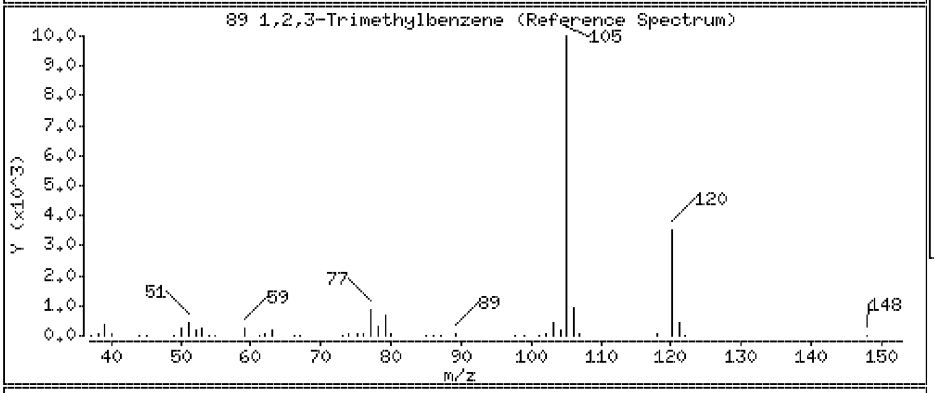
Concentration: 0.0808 ppbv

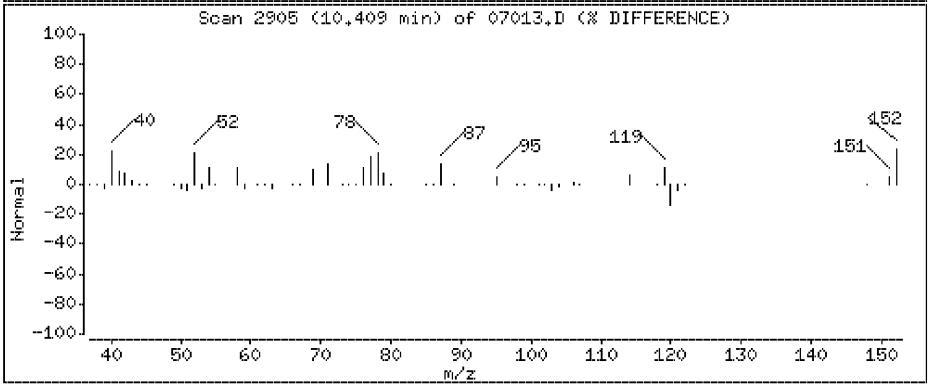












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07013.D

Date : 11-MAR-2017 17:23

Client ID:

Instrument: 10airD.i

Sample Info:

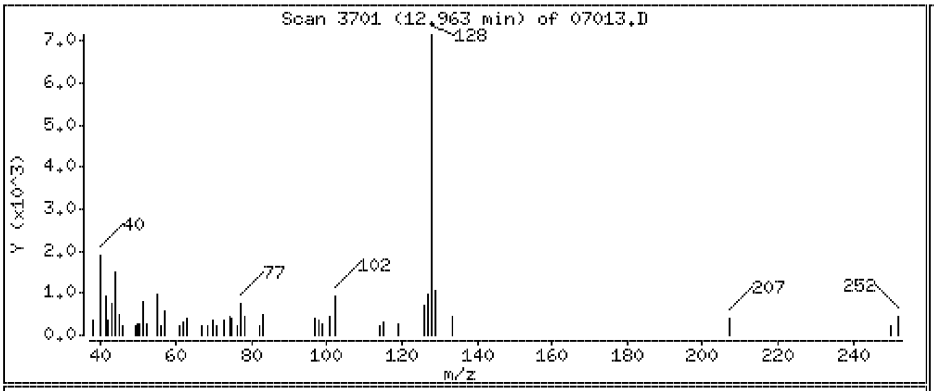
Operator: DR1

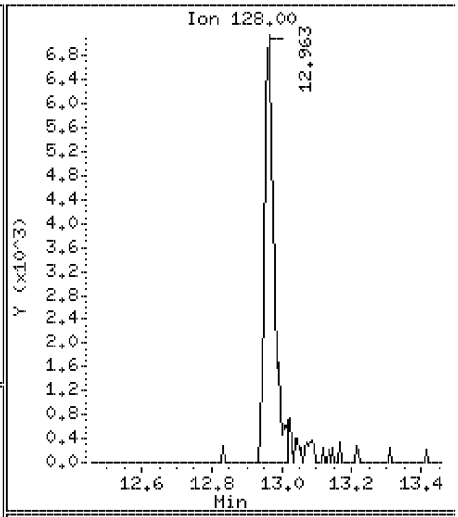
Column phase: J&W DB-5

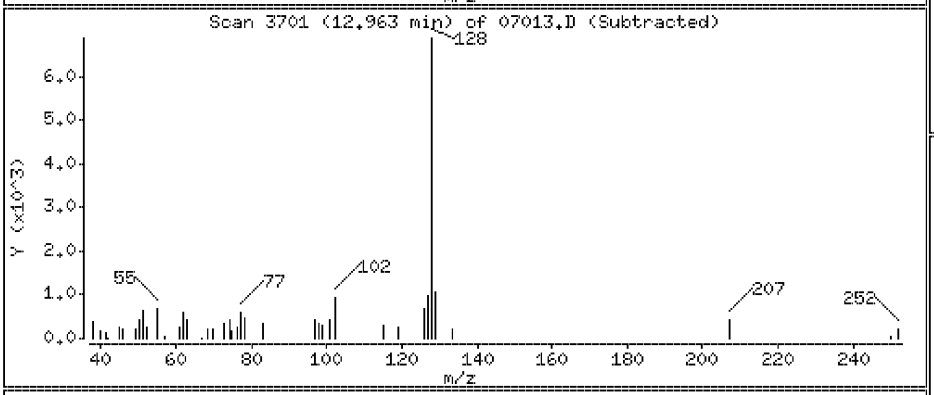
Column diameter: 0.32

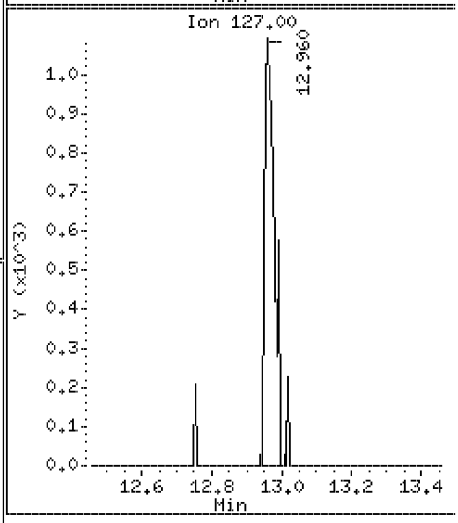
94 Naphthalene

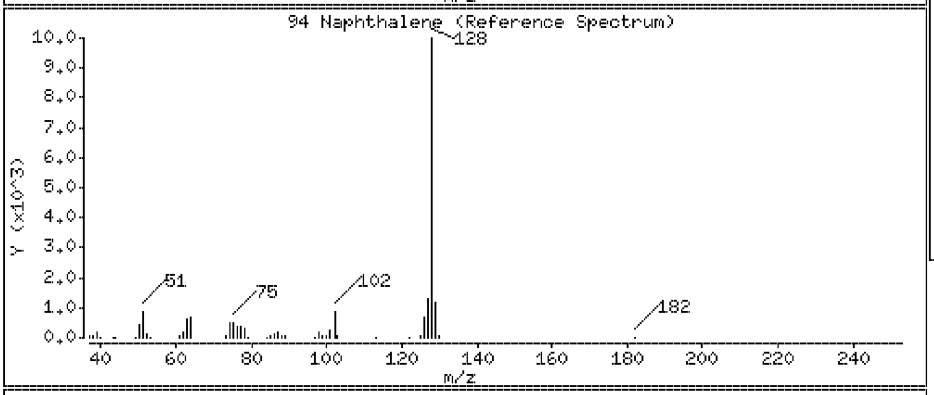
Concentration: 0.872 ppbv

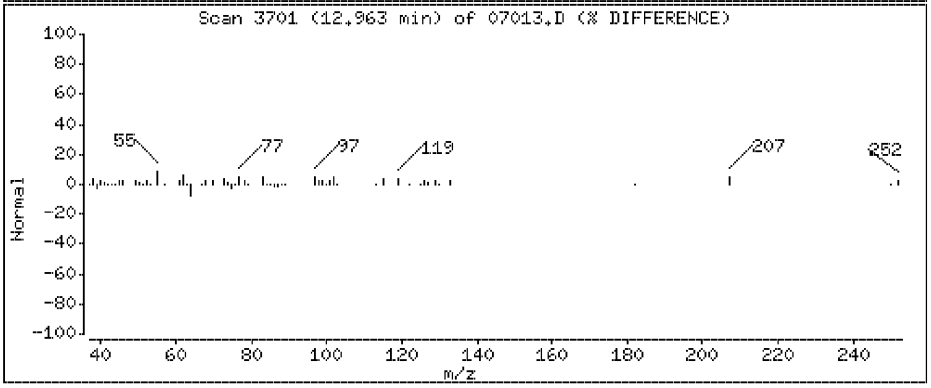






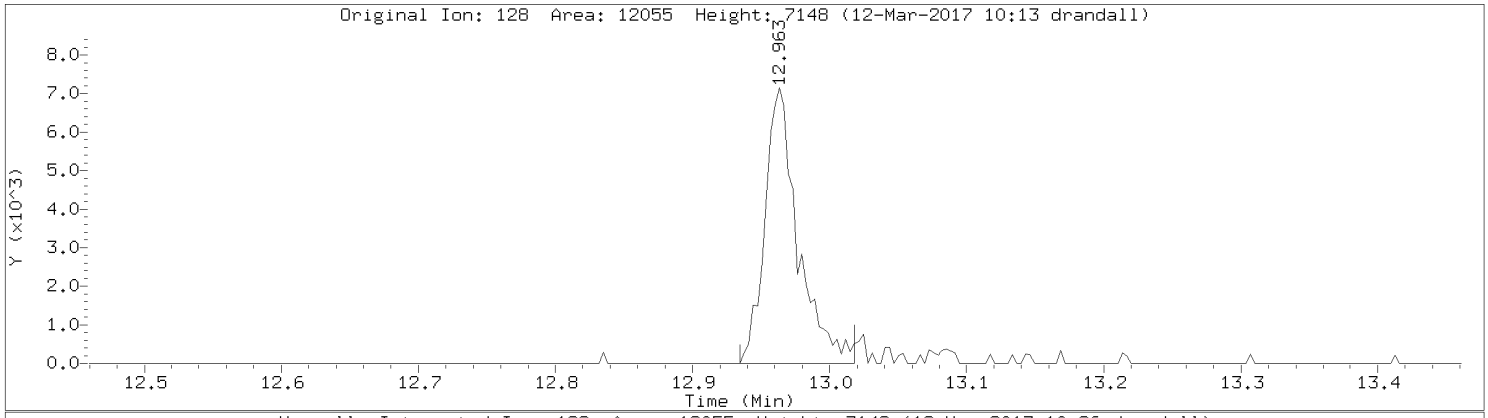


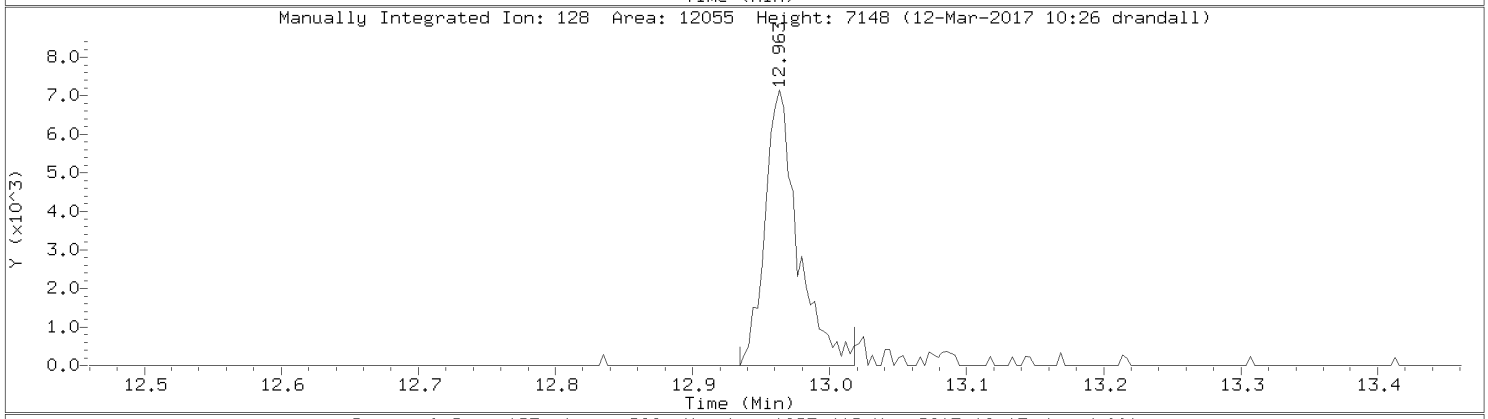


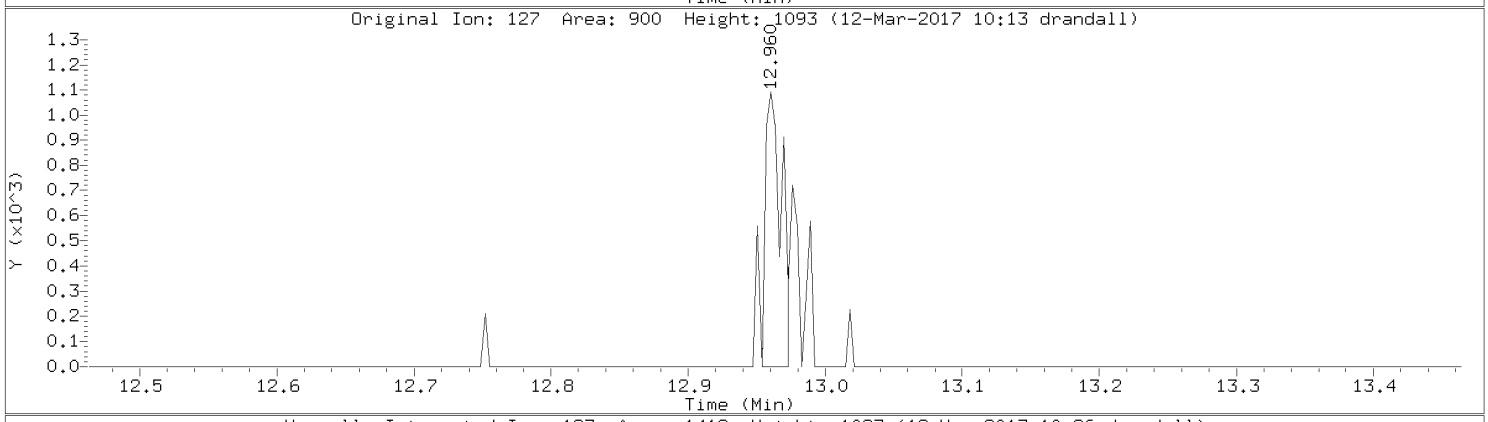


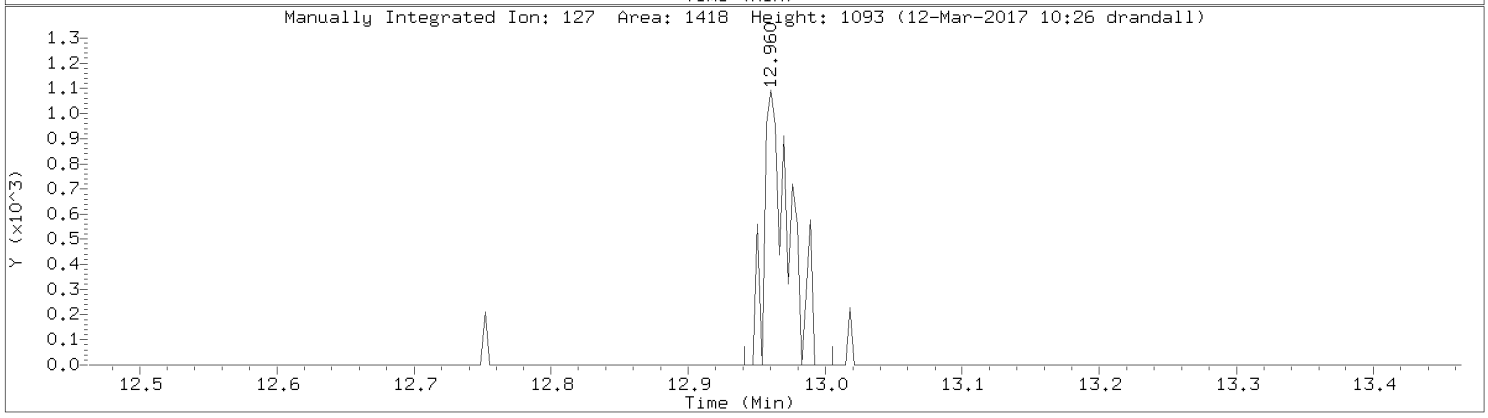
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07013.d
Injection Date: 11-MAR-2017 17:23
Instrument: 10airD.i
Lab Sample ID: 10380372009

Compound: Naphthalene
CAS Number: 91-20-3



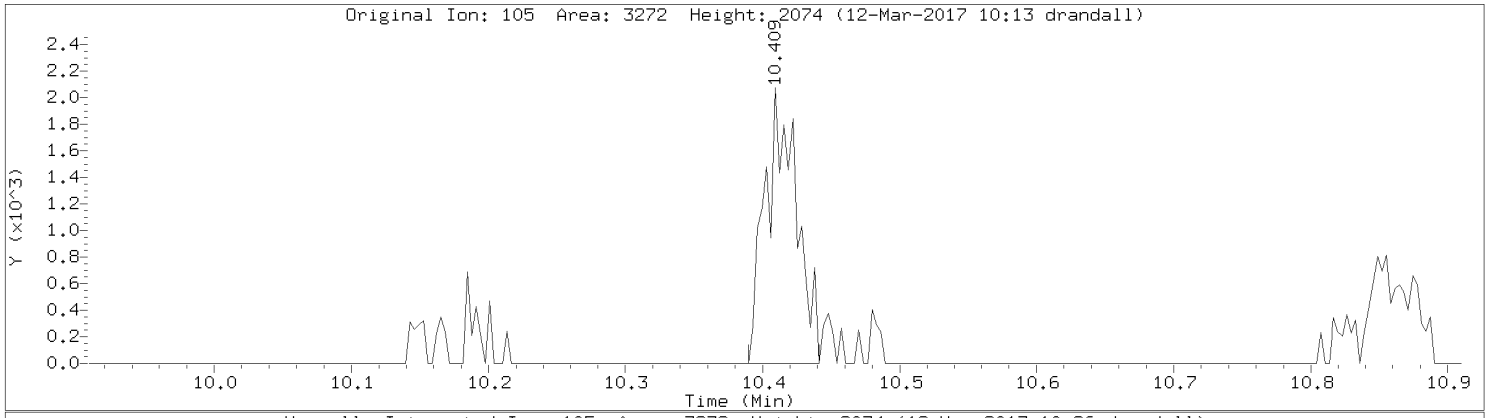


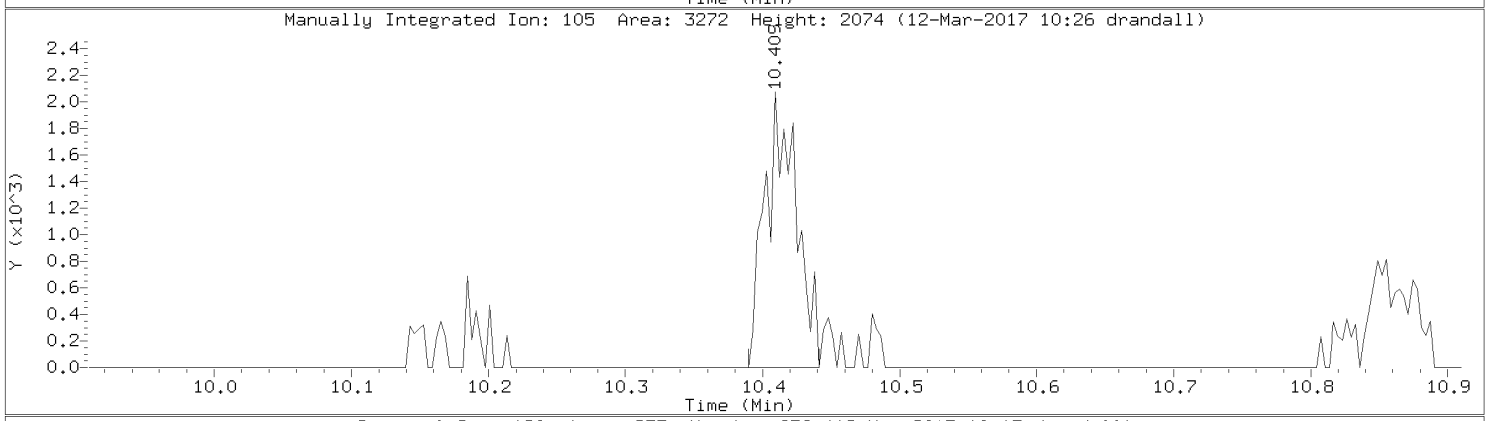


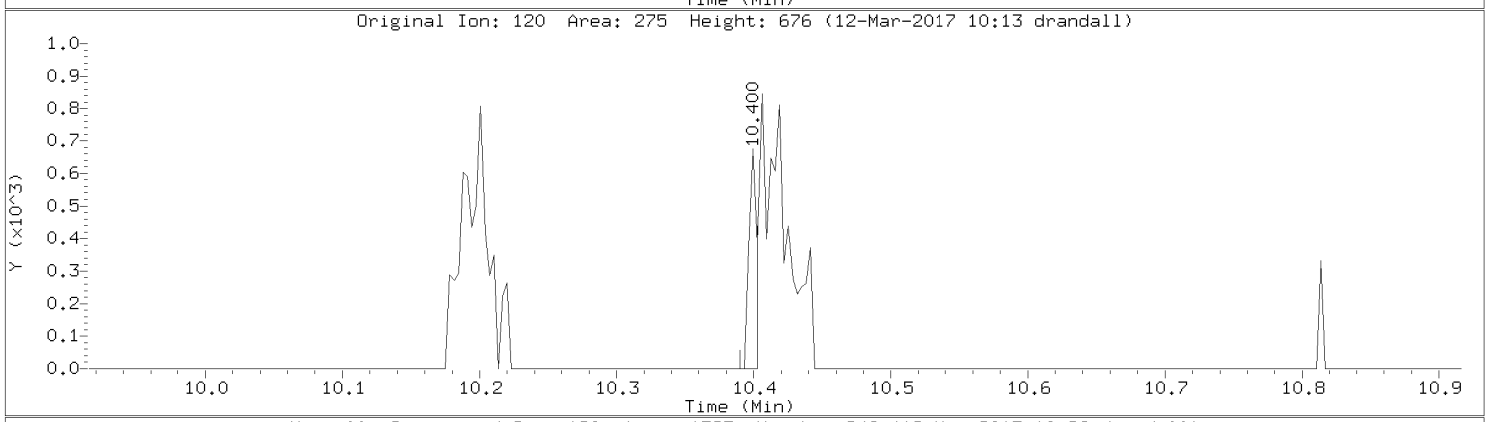


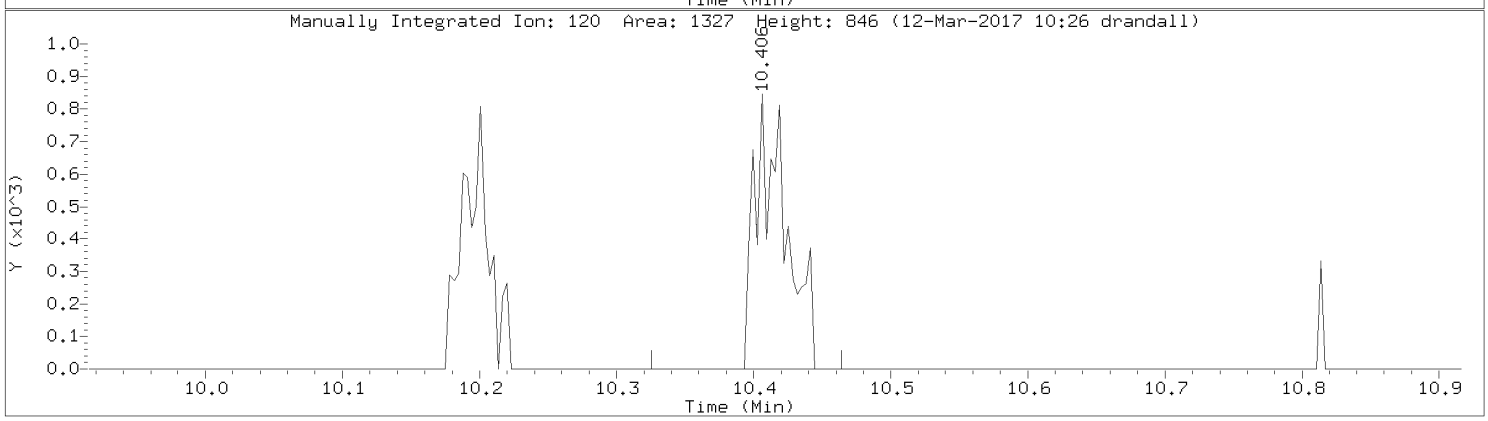
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07013.d
Injection Date: 11-MAR-2017 17:23
Instrument: 10airD.i
Lab Sample ID: 10380372009

Compound: 1,2,3-Trimethylbenzene
CAS Number: 526-73-8









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_20_20170226 **Lab ID: 10380372009** Collected: 02/26/17 11:54 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**29.4**	ug/m3	4.6	0.44	1.83		03/11/17 17:23	67-63-0	
Styrene	**0.35U**	ug/m3	1.6	0.35	1.83		03/11/17 17:23	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/11/17 17:23	79-34-5	
Tetrachloroethene	**0.51U**	ug/m3	1.3	0.51	1.83		03/11/17 17:23	127-18-4	
Toluene	**1.0J**	ug/m3	1.4	0.28	1.83		03/11/17 17:23	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/11/17 17:23	120-82-1	
1,1,1-Trichloroethane	**0.45U**	ug/m3	2.0	0.45	1.83		03/11/17 17:23	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/11/17 17:23	79-00-5	
Trichloroethene	**0.51U**	ug/m3	1.0	0.51	1.83		03/11/17 17:23	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.1	0.24	1.83		03/11/17 17:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.55U**	ug/m3	2.9	0.55	1.83		03/11/17 17:23	76-13-1	
1,2,4-Trimethylbenzene	**2.1**	ug/m3	1.8	0.23	1.83		03/11/17 17:23	95-63-6	
1,3,5-Trimethylbenzene	**0.93J**	ug/m3	1.8	0.33	1.83		03/11/17 17:23	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/11/17 17:23	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.2	1.4	1.83		03/11/17 17:23	179601-23-1	
o-Xylene	**0.64U**	ug/m3	1.6	0.64	1.83		03/11/17 17:23	95-47-6	

Sample: VP-103_30_20170226 **Lab ID: 10380372010** Collected: 02/26/17 12:20 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**168**	ug/m3	14.8	2.0	2.45		03/11/17 16:24	67-64-1	
Allyl chloride	**0.56U**	ug/m3	3.9	0.56	2.45		03/11/17 16:24	107-05-1	
Benzene	**3.4**	ug/m3	0.80	0.30	2.45		03/11/17 16:24	71-43-2	
Bromodichloromethane	**0.48U**	ug/m3	3.3	0.48	2.45		03/11/17 16:24	75-27-4	
Bromoform	**2.2U**	ug/m3	12.9	2.2	2.45		03/11/17 16:24	75-25-2	
Bromomethane	**0.76U**	ug/m3	1.9	0.76	2.45		03/11/17 16:24	74-83-9	
1,3-Butadiene	**0.43U**	ug/m3	1.1	0.43	2.45		03/11/17 16:24	106-99-0	
2-Butanone (MEK)	**12.1**	ug/m3	7.4	0.56	2.45		03/11/17 16:24	78-93-3	
Carbon disulfide	**1.4J**	ug/m3	1.5	0.25	2.45		03/11/17 16:24	75-15-0	
Carbon tetrachloride	**6.6**	ug/m3	1.6	0.47	2.45		03/11/17 16:24	56-23-5	CH
Chlorobenzene	**0.33U**	ug/m3	2.3	0.33	2.45		03/11/17 16:24	108-90-7	
Chlorodifluoromethane	**20.1**	ug/m3	1.8	0.68	2.45		03/11/17 16:24	75-45-6	
Chloroethane	**0.48U**	ug/m3	1.3	0.48	2.45		03/11/17 16:24	75-00-3	
Chloroform	**3.5**	ug/m3	1.2	0.47	2.45		03/11/17 16:24	67-66-3	
Chloromethane	**0.26U**	ug/m3	1.0	0.26	2.45		03/11/17 16:24	74-87-3	
Chloropentafluoroethane	**7.9U**	ug/m3	7.9	7.9	2.45		03/11/17 16:24	76-15-3	CL
Cyclohexane	**2.1**	ug/m3	1.7	0.77	2.45		03/11/17 16:24	110-82-7	
1,2-Dibromo-3-chloropropane	**12.0U**	ug/m3	12.0	12.0	2.45		03/11/17 16:24	96-12-8	
Dibromochloromethane	**2.1U**	ug/m3	4.2	2.1	2.45		03/11/17 16:24	124-48-1	
1,2-Dibromoethane (EDB)	**1.9U**	ug/m3	3.8	1.9	2.45		03/11/17 16:24	106-93-4	
1,2-Dichlorobenzene	**1.3U**	ug/m3	3.0	1.3	2.45		03/11/17 16:24	95-50-1	
1,3-Dichlorobenzene	**1.3U**	ug/m3	3.0	1.3	2.45		03/11/17 16:24	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_30_20170226 **Lab ID: 10380372010** Collected: 02/26/17 12:20 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**1.2U**	ug/m3	3.0	1.2	2.45		03/11/17 16:24	106-46-7	
Dichlorodifluoromethane	**6.2**	ug/m3	2.5	1.2	2.45		03/11/17 16:24	75-71-8	
1,1-Dichloroethane	**0.38U**	ug/m3	2.0	0.38	2.45		03/11/17 16:24	75-34-3	
1,2-Dichloroethane	**0.50U**	ug/m3	1.0	0.50	2.45		03/11/17 16:24	107-06-2	
1,1-Dichloroethene	**0.58U**	ug/m3	2.0	0.58	2.45		03/11/17 16:24	75-35-4	
cis-1,2-Dichloroethene	**0.60U**	ug/m3	2.0	0.60	2.45		03/11/17 16:24	156-59-2	
trans-1,2-Dichloroethene	**0.94U**	ug/m3	2.0	0.94	2.45		03/11/17 16:24	156-60-5	
1,2-Dichloropropane	**0.66U**	ug/m3	2.3	0.66	2.45		03/11/17 16:24	78-87-5	
cis-1,3-Dichloropropene	**0.90U**	ug/m3	2.3	0.90	2.45		03/11/17 16:24	10061-01-5	
trans-1,3-Dichloropropene	**0.64U**	ug/m3	2.3	0.64	2.45		03/11/17 16:24	10061-02-6	
Dichlorotetrafluoroethane	**0.76U**	ug/m3	3.5	0.76	2.45		03/11/17 16:24	76-14-2	
Freon 123	**7.8U**	ug/m3	7.8	7.8	2.45		03/11/17 16:24	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.86U**	ug/m3	9.0	0.86	2.45		03/11/17 16:24	123-91-1	
Ethylbenzene	**2.0J**	ug/m3	2.2	1.0	2.45		03/11/17 16:24	100-41-4	
4-Ethyltoluene	**2.0J**	ug/m3	2.4	0.46	2.45		03/11/17 16:24	622-96-8	
Hexachloro-1,3-butadiene	**1.6U**	ug/m3	5.3	1.6	2.45		03/11/17 16:24	87-68-3	
n-Hexane	**123**	ug/m3	1.8	0.87	2.45		03/11/17 16:24	110-54-3	
2-Hexanone	**3.4J**	ug/m3	10.2	1.0	2.45		03/11/17 16:24	591-78-6	
Isopropylbenzene (Cumene)	**0.34U**	ug/m3	6.1	0.34	2.45		03/11/17 16:24	98-82-8	
Methyl acetate	**3.8U**	ug/m3	3.8	3.8	2.45		03/11/17 16:24	79-20-9	
Methylcyclohexane	**0.59U**	ug/m3	2.0	0.59	2.45		03/11/17 16:24	108-87-2	
Methylene Chloride	**295**	ug/m3	232	35.6	65.72		03/12/17 15:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.8J**	ug/m3	10.2	0.53	2.45		03/11/17 16:24	108-10-1	
Methyl-tert-butyl ether	**0.74U**	ug/m3	9.0	0.74	2.45		03/11/17 16:24	1634-04-4	
2-Propanol	**20.5**	ug/m3	6.1	0.59	2.45		03/11/17 16:24	67-63-0	
Styrene	**0.47U**	ug/m3	2.1	0.47	2.45		03/11/17 16:24	100-42-5	
1,1,2,2-Tetrachloroethane	**0.81U**	ug/m3	1.7	0.81	2.45		03/11/17 16:24	79-34-5	
Tetrachloroethene	**68.2**	ug/m3	1.7	0.68	2.45		03/11/17 16:24	127-18-4	
Toluene	**12.8**	ug/m3	1.9	0.38	2.45		03/11/17 16:24	108-88-3	
1,2,4-Trichlorobenzene	**2.2U**	ug/m3	9.2	2.2	2.45		03/11/17 16:24	120-82-1	
1,1,1-Trichloroethane	**0.61U**	ug/m3	2.7	0.61	2.45		03/11/17 16:24	71-55-6	
1,1,2-Trichloroethane	**0.60U**	ug/m3	1.3	0.60	2.45		03/11/17 16:24	79-00-5	
Trichloroethene	**135**	ug/m3	1.3	0.68	2.45		03/11/17 16:24	79-01-6	
Trichlorofluoromethane	**4.8**	ug/m3	2.8	0.32	2.45		03/11/17 16:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	**8.1**	ug/m3	3.9	0.74	2.45		03/11/17 16:24	76-13-1	
1,2,4-Trimethylbenzene	**4.3**	ug/m3	2.4	0.31	2.45		03/11/17 16:24	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/m3	2.4	0.45	2.45		03/11/17 16:24	108-67-8	
Vinyl chloride	**0.48U**	ug/m3	0.64	0.48	2.45		03/11/17 16:24	75-01-4	
m&p-Xylene	**5.9**	ug/m3	4.3	1.9	2.45		03/11/17 16:24	179601-23-1	
o-Xylene	**2.7**	ug/m3	2.2	0.86	2.45		03/11/17 16:24	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.d
Report Date: 12-Mar-2017 10:24

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07011.d
Lab Smp Id: 10380372010
Inj Date : 11-MAR-2017 16:24
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 11
Dil Factor: 2.45220
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.452	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.123	2.155	(0.500)	17308	2.27861	5.59(QH)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.165	(0.506)	34887	0.50435	1.24	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.505	2.521	(0.590)	41957	8.68595	21.3	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.601	2.614	(0.613)	24976	0.34514	0.846	
17	Acrolein	56	2.614	2.624	(0.616)	1725	0.61431	1.51(Q)	
18	Acetone	43	2.643	2.653	(0.623)	1021405	28.3136	69.4	
19	Isopropyl Alcohol	45	2.675	2.688	(0.630)	81925	3.34259	8.20(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	2.829	2.845	(0.667)	13091	0.39260	0.963	
22	Freon 113	101	2.819	2.829	(0.664)	24108	0.42493	1.04	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.d
Report Date: 12-Mar-2017 10:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	2.964	2.970	(0.698)	11086	0.18148	0.445(H)	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.275	(0.770)	1604343	9.60499	9.60	
	33 Methyl Ethyl Ketone	72	3.343	3.359	(0.788)	16516	1.65102	4.05(Q)	
	34 n-Hexane	57	3.349	3.352	(0.789)	508049	14.0468	34.4(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	37 Ethyl Acetate	43	3.484	3.490	(0.821)	29300	0.50632	1.24(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	3.561	3.558	(0.839)	16944	0.28904	0.709(H)	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.103	4.100	(0.967)	29599	0.42750	1.05	
	45 Carbon tetrachloride	117	4.113	4.116	(0.969)	23370	0.42104	1.03	
	44 Cyclohexane	56	4.119	4.126	(0.971)	8652	0.24206	0.594(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.244	4.247	(1.000)	3146304	10.0000		
	48 2,2,4-Trimethylpentane	57	4.366	4.376	(1.029)	22538	158.551	389(AQ)	
	49 Heptane	43	4.485	4.491	(1.057)	16107	0.29800	0.731(QM)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	4.568	4.568	(1.076)	384463	10.1160	24.8	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 Bromodichloromethane	83	Compound Not Detected.						(D)
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	5.101	5.098	(1.202)	18168	0.17202	0.422	
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.563	(1.310)	3009191	9.54493	9.54	
	60 Toluene	91	5.630	5.631	(1.327)	126746	1.36270	3.34	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	5.887	5.887	(0.838)	18730	0.33166	0.813	
	63 n-Octane	43	6.051	6.051	(0.861)	22120	0.37669	0.924(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.401	6.404	(0.911)	211261	4.03833	9.90	
*	67 Chlorobenzene - d5	117	7.026	7.030	(1.000)	2366358	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	18814	0.18120	0.444	
	70 m&p-Xylene	91	7.453	7.460	(1.061)	54982	0.54587	1.34	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.854	7.858	(1.118)	120342	2.22106	5.45(M)	
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	7.925	7.928	(1.128)	21338	0.24928	0.611	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	9.048	9.051	(1.288)	7065	0.06339	0.155	
	78 4-Ethyltoluene	105	9.221	9.228	(1.312)	14583	0.15996	0.392(M)	
	79 1,3,5-Trimethylbenzene	105	9.321	9.318	(1.327)	12831	0.11425	0.280	

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.d
Report Date: 12-Mar-2017 10:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
80	n-Decane	57	9.712	9.722	(2.288)	12916	0.25259	0.619(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.824	9.825	(1.398)	37333	0.34840	0.854	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1391966	9.60084	9.60	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	10.412	10.409	(1.482)	5437	0.07482	0.183(M)	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.953	12.960	(1.843)	20579	0.82990	2.04(QM)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.d
Report Date: 12-Mar-2017 10:24

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07011.d
Lab Smp Id: 10380372010
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

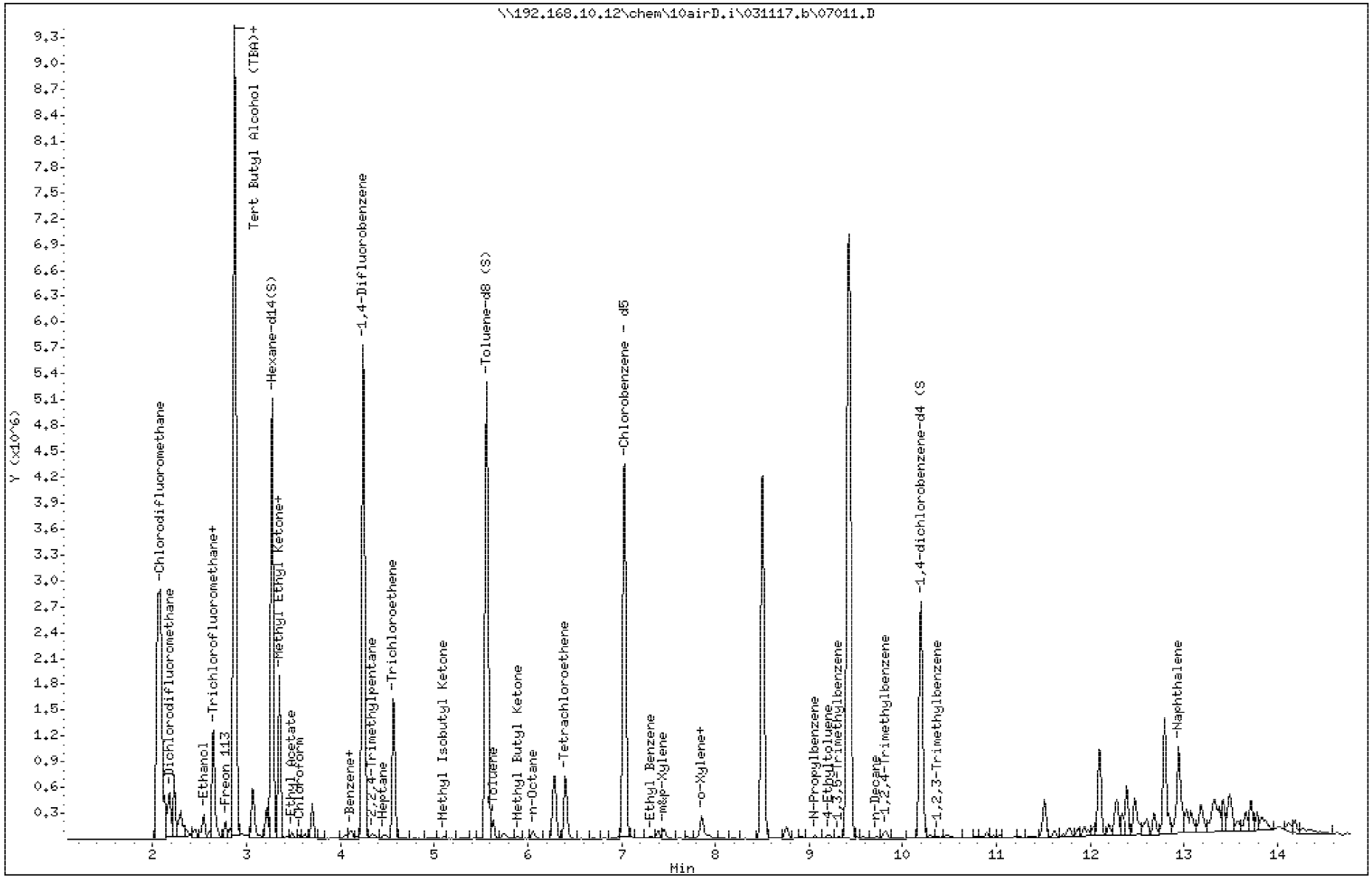
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3146304	-16.93
67 Chlorobenzene - d	3280875	1968525	4593225	2366358	-27.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.08
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D
Date : 11-MAR-2017 16:24
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

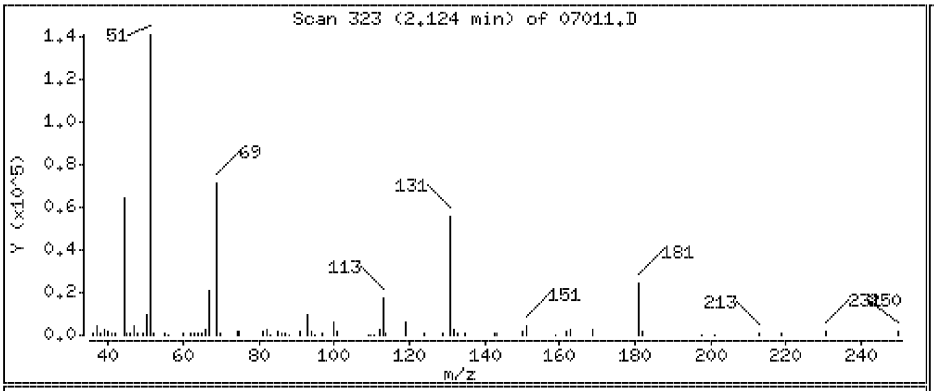
Operator: DR1

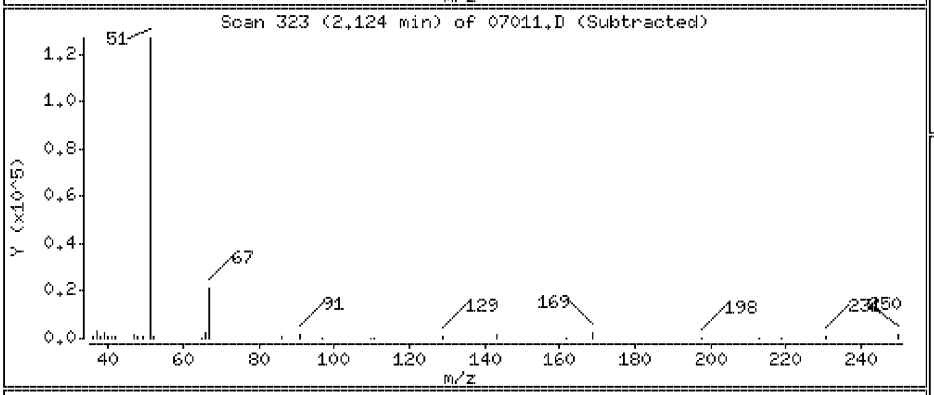
Column phase: J&W DB-5

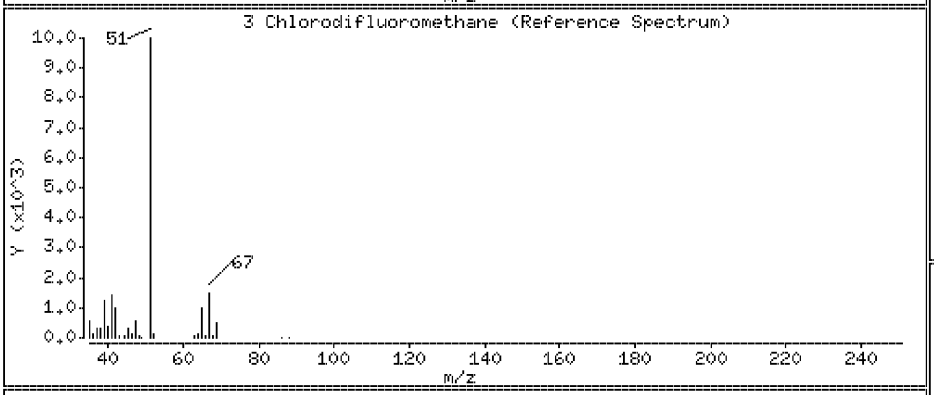
Column diameter: 0.32

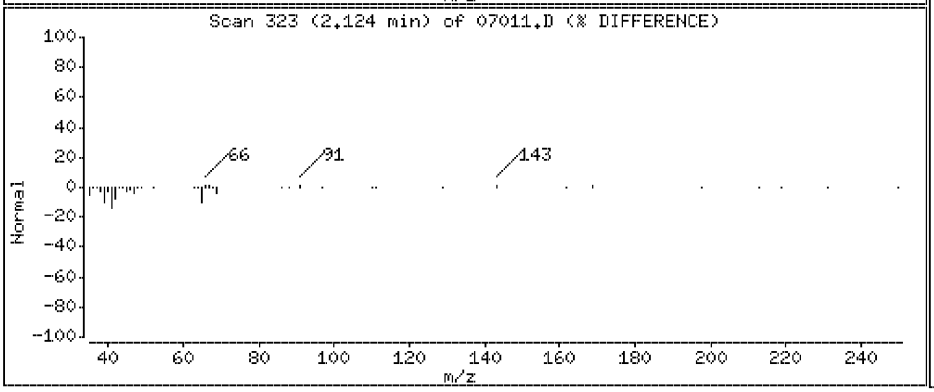
3 Chlorodifluoromethane

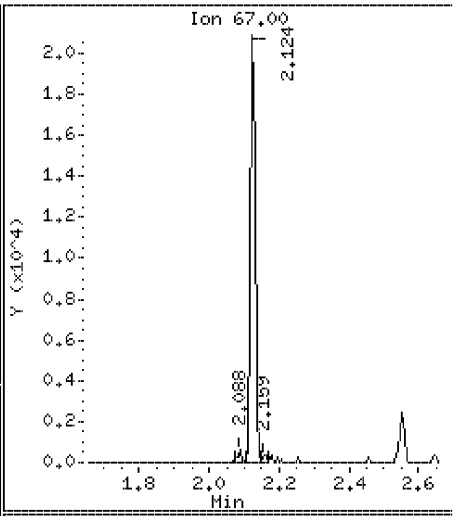
Concentration: 5.59 ppbv

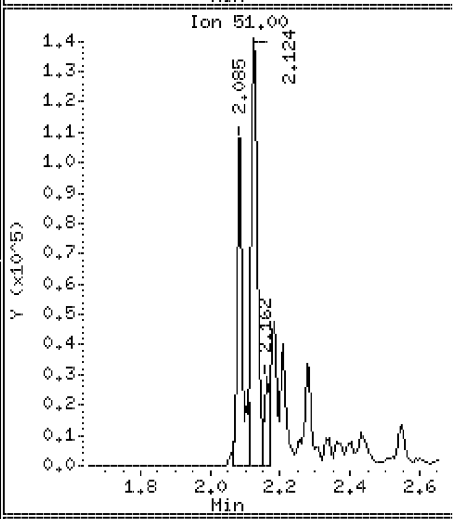


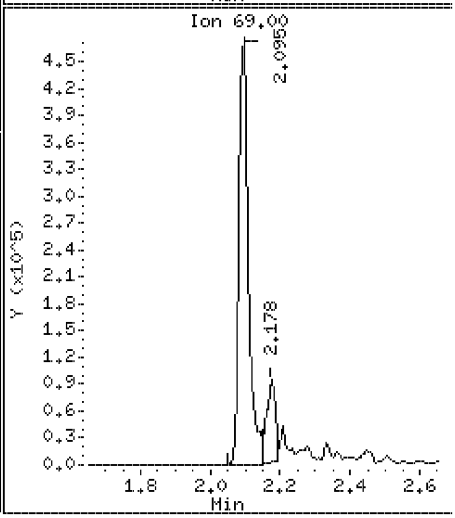












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

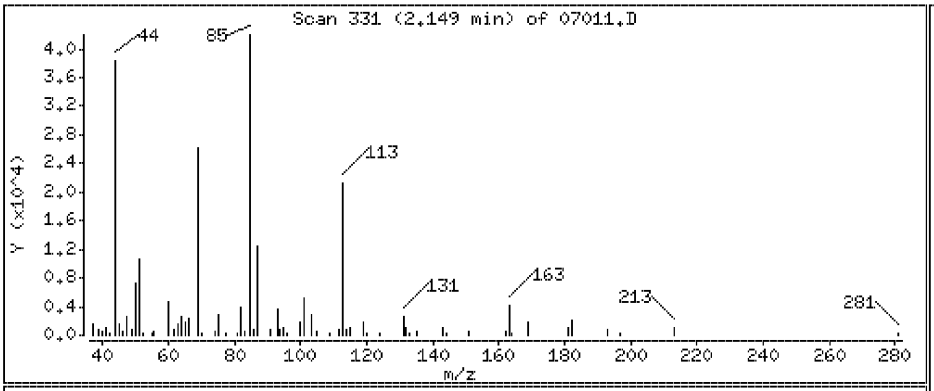
Operator: DR1

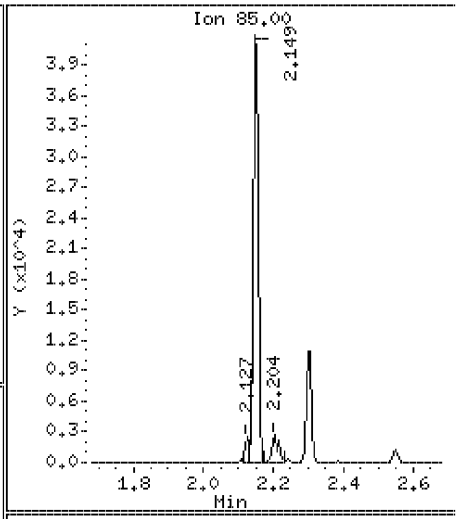
Column phase: J&W DB-5

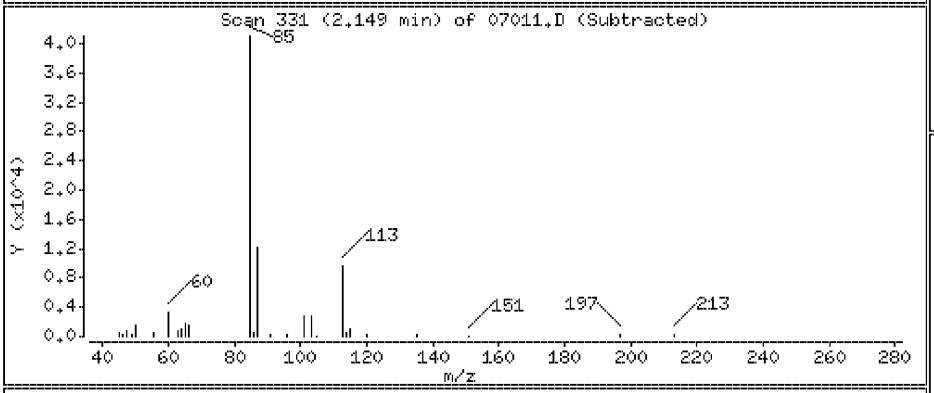
Column diameter: 0.32

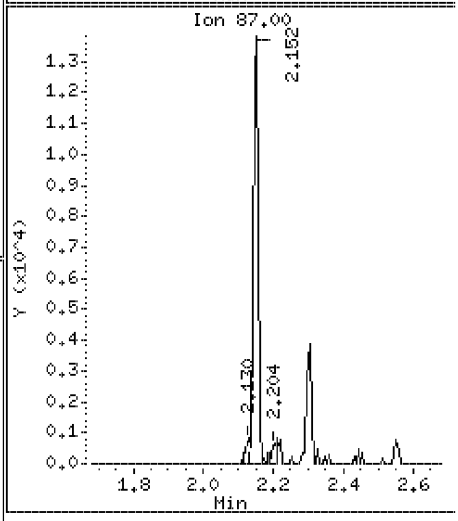
5 Dichlorodifluoromethane

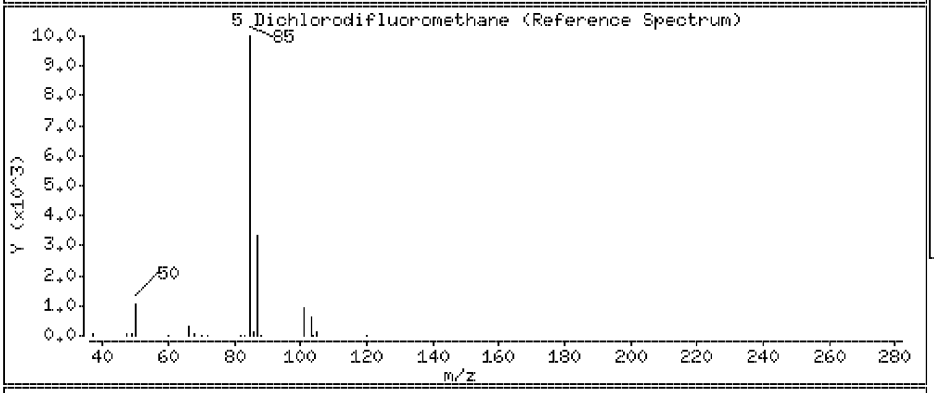
Concentration: 1.24 ppbv

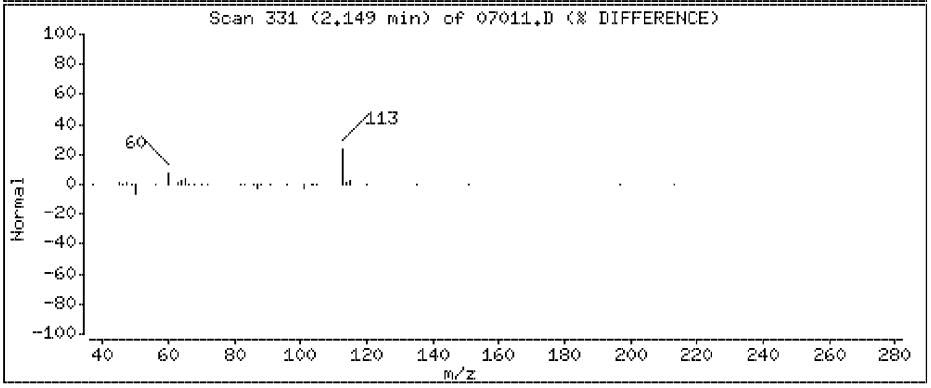












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

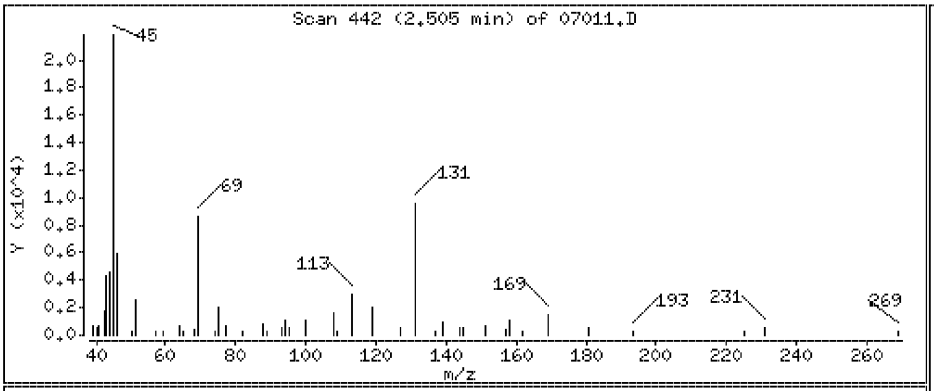
Operator: DR1

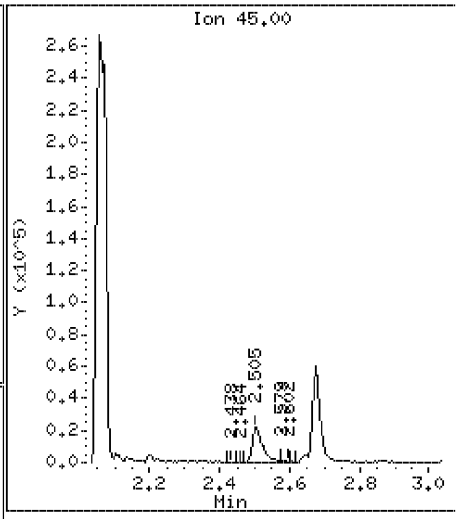
Column phase: J&W DB-5

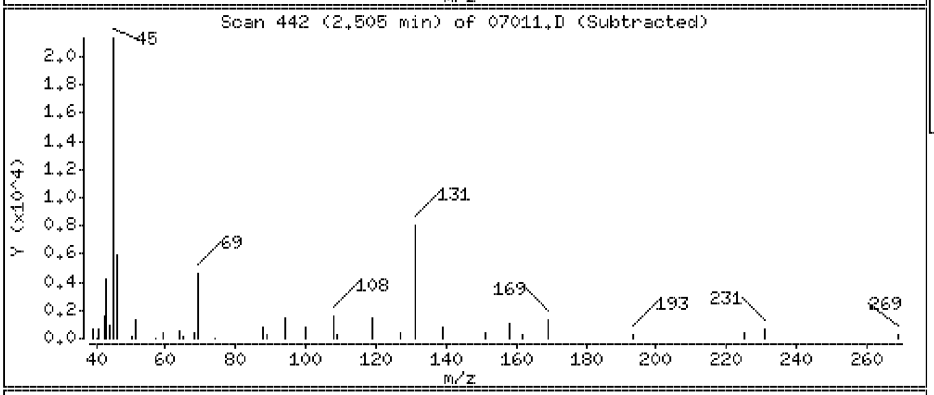
Column diameter: 0.32

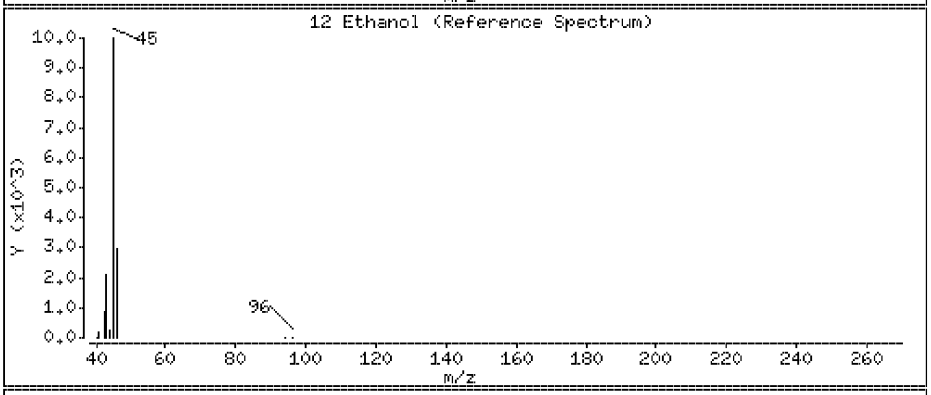
12 Ethanol

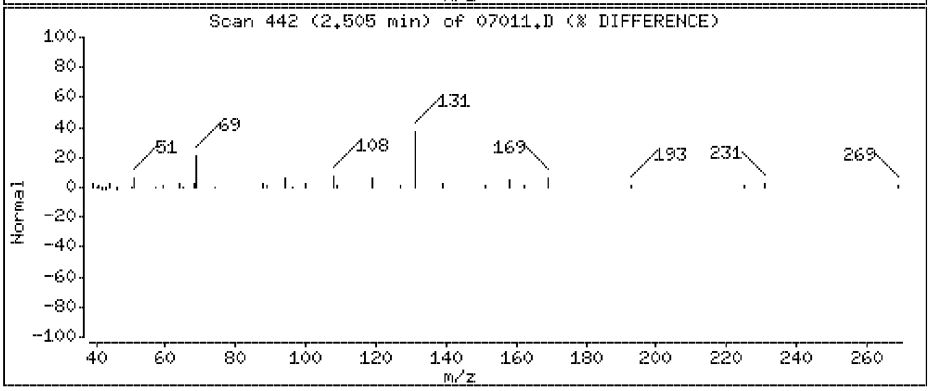
Concentration: 21.3 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

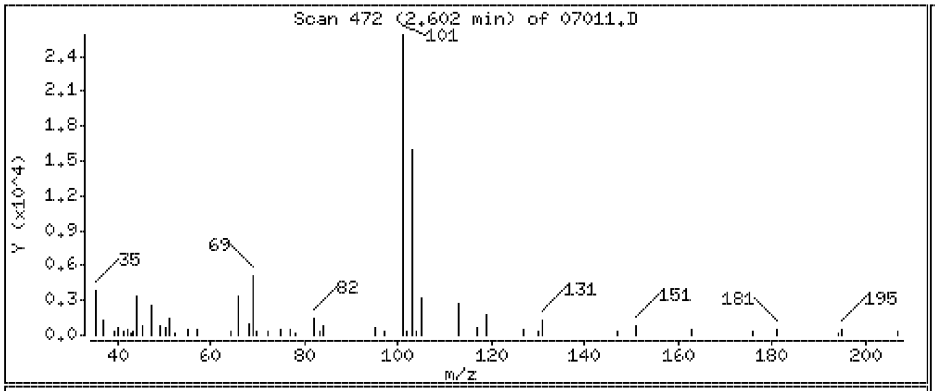
Operator: DR1

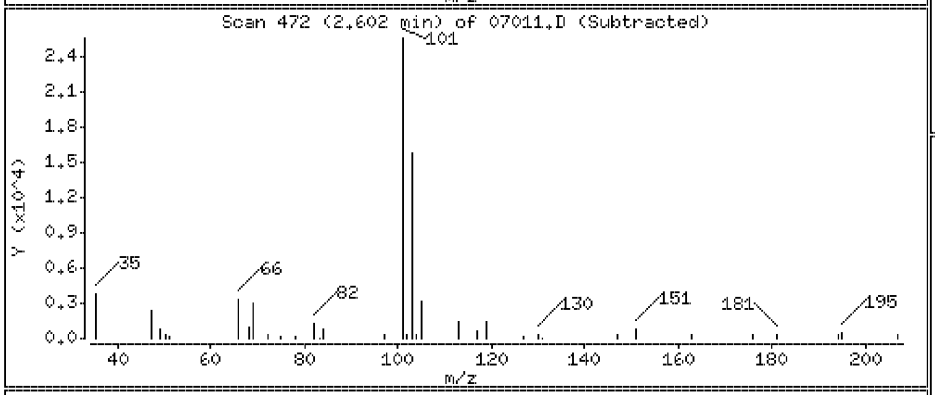
Column phase: J&W DB-5

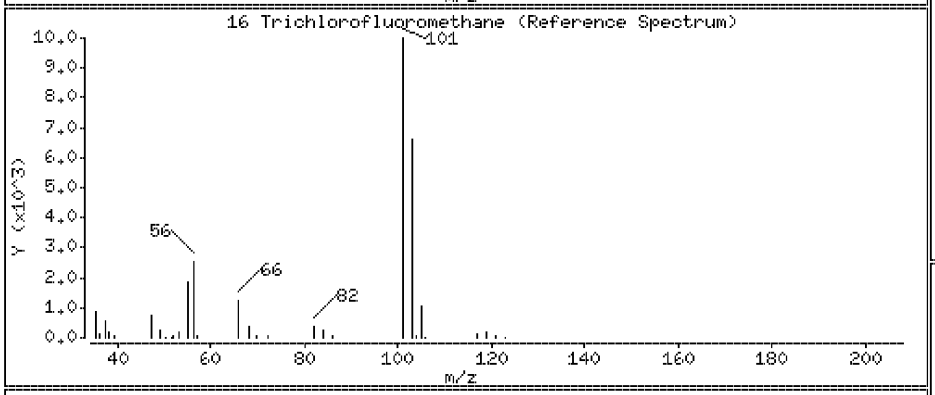
Column diameter: 0.32

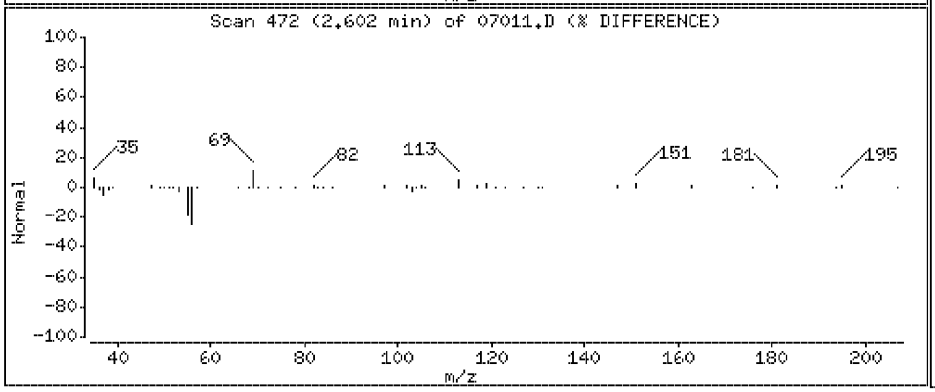
16 Trichlorofluoromethane

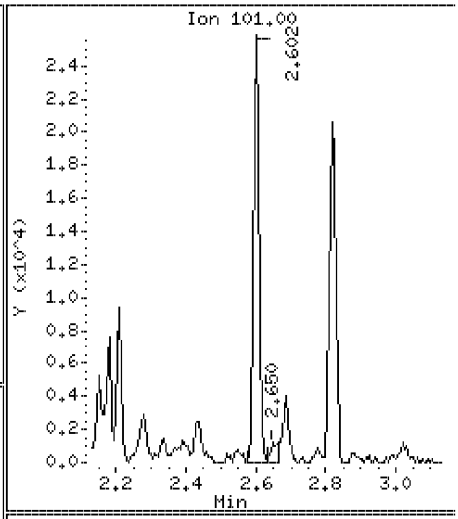
Concentration: 0.846 ppbv

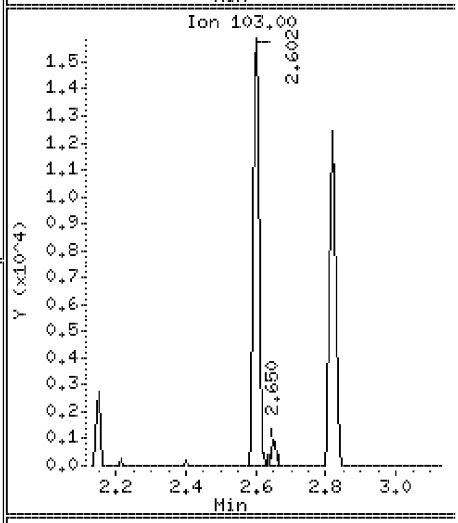


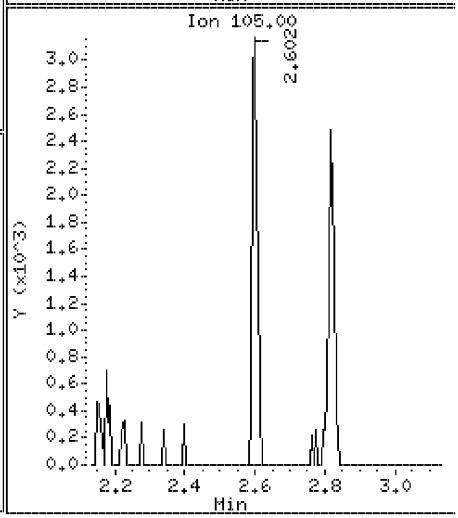












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

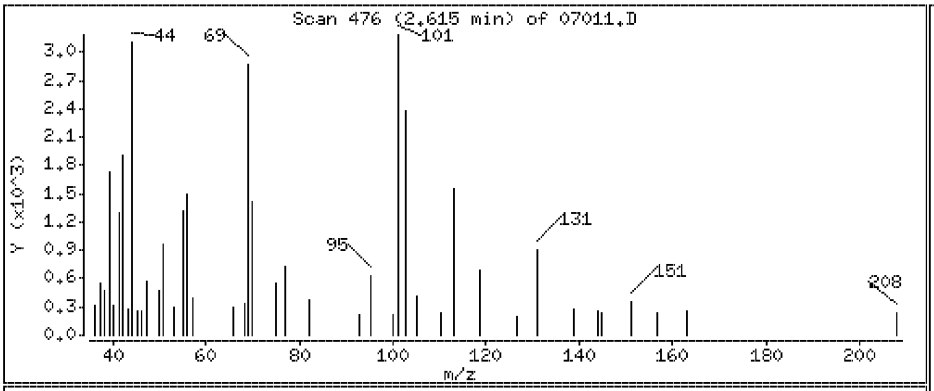
Operator: DR1

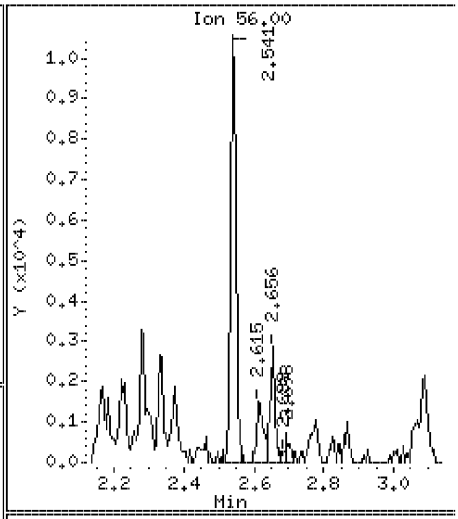
Column phase: J&W DB-5

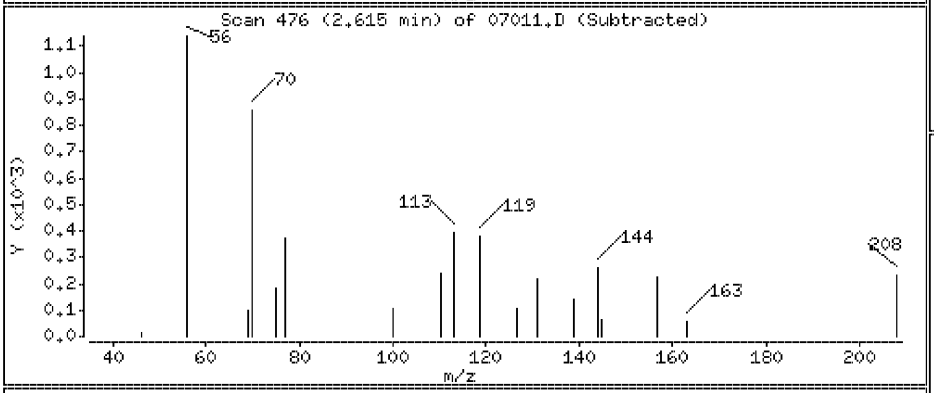
Column diameter: 0.32

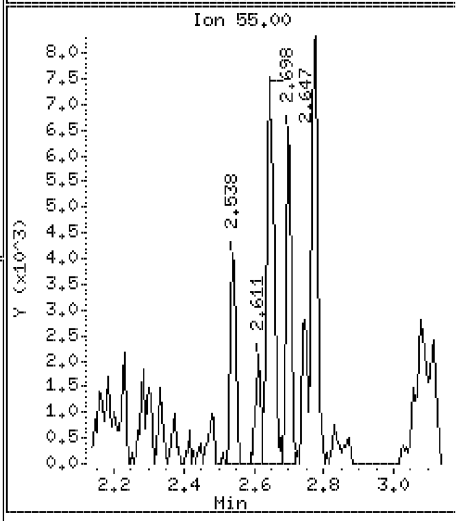
17 Acrolein

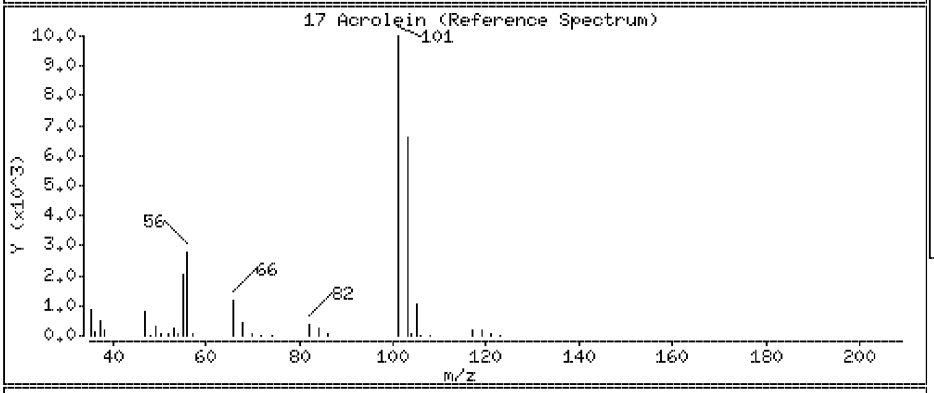
Concentration: 1.51 ppbv

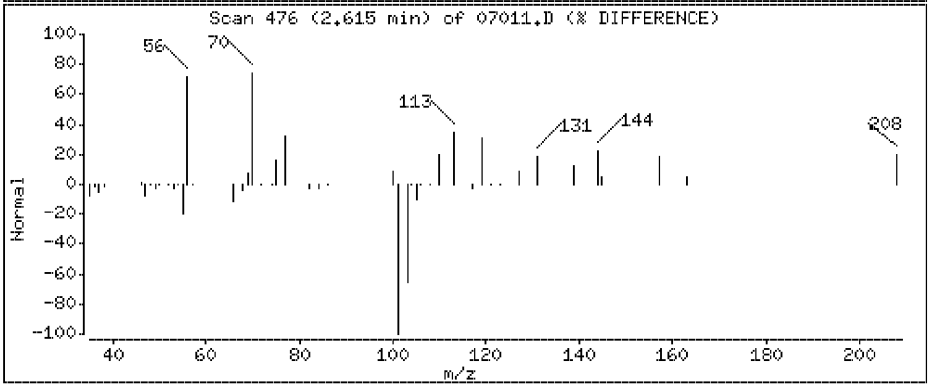












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

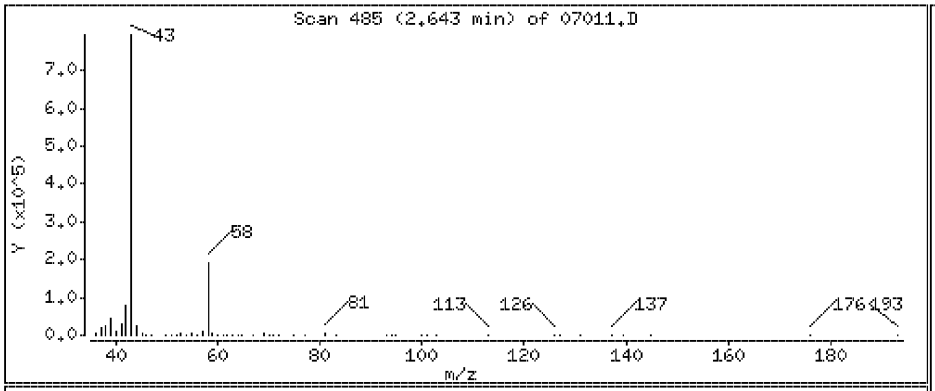
Operator: DR1

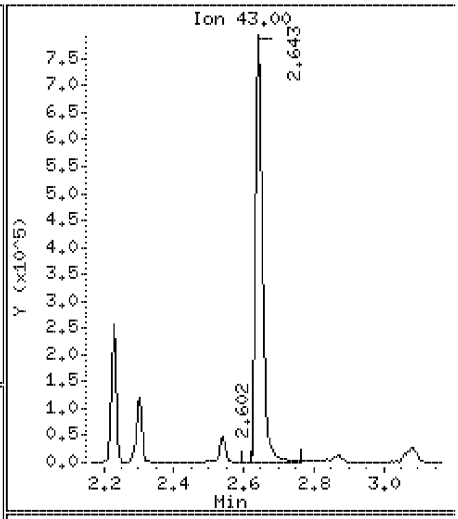
Column phase: J&W DB-5

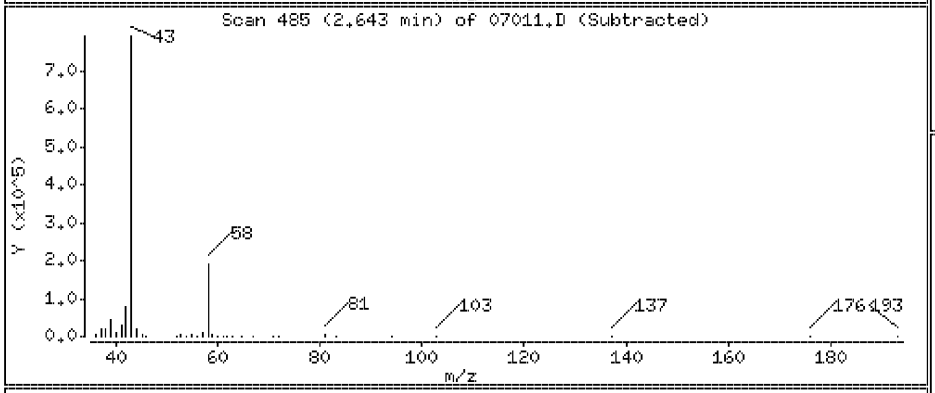
Column diameter: 0.32

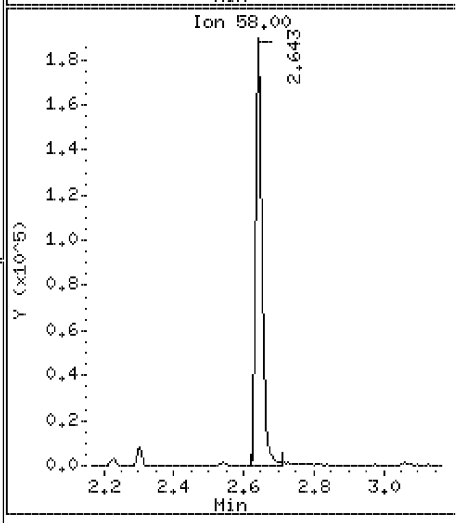
18 Acetone

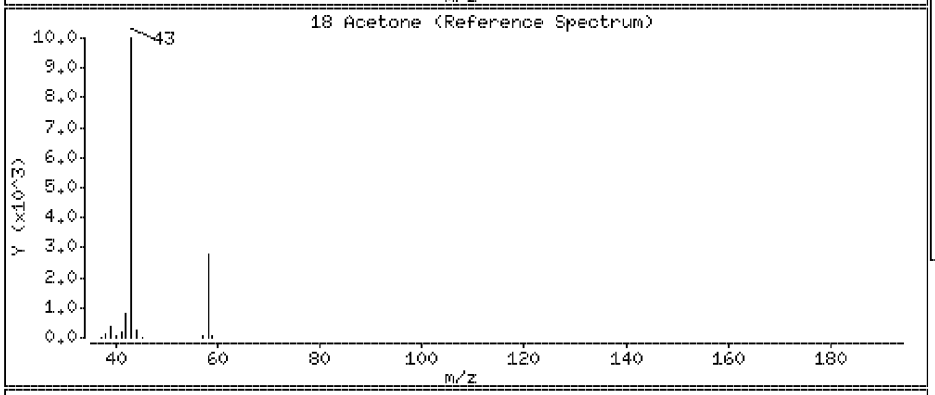
Concentration: 69.4 ppbv

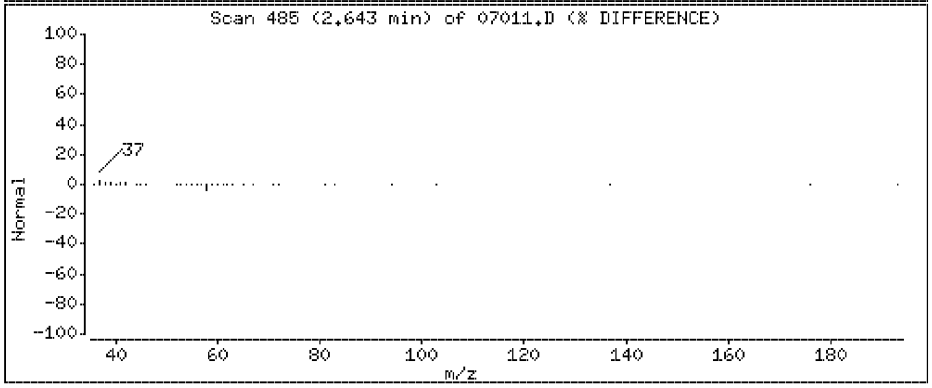












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

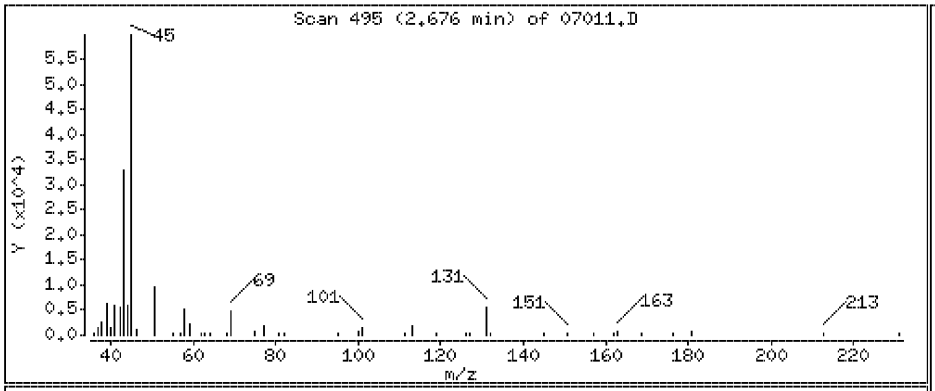
Operator: DR1

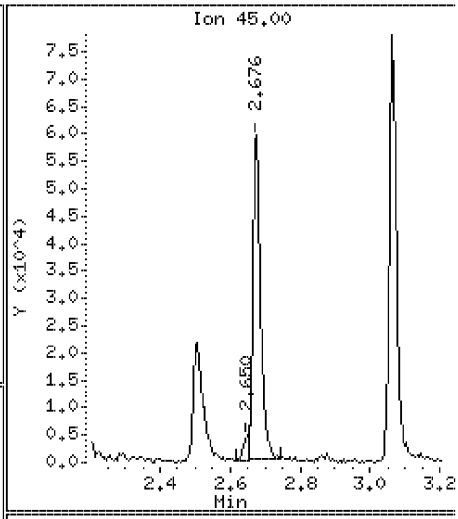
Column phase: J&W DB-5

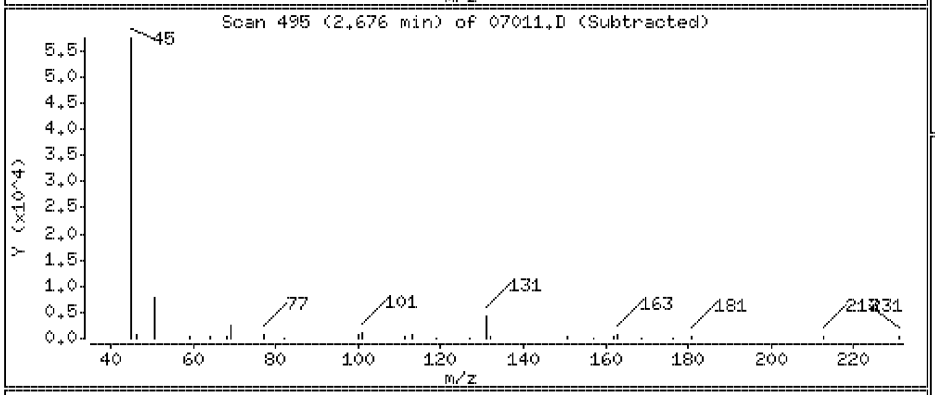
Column diameter: 0.32

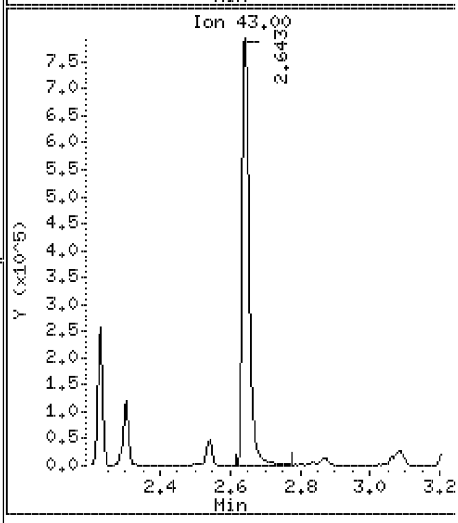
19 Isopropyl Alcohol

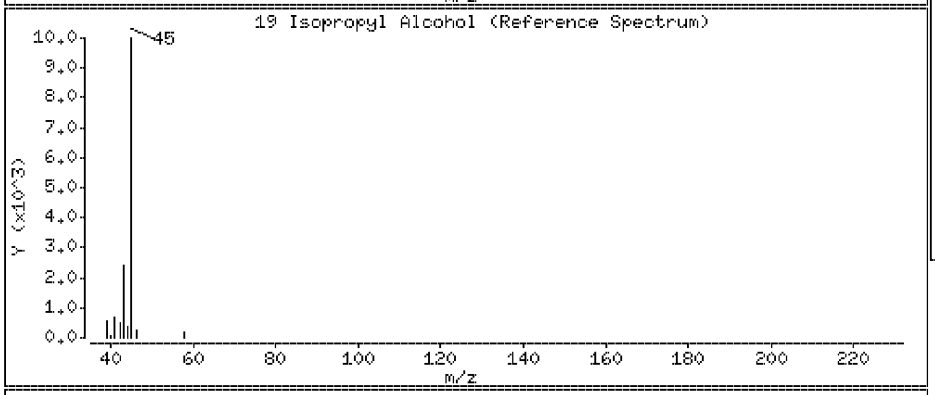
Concentration: 8.20 ppbv

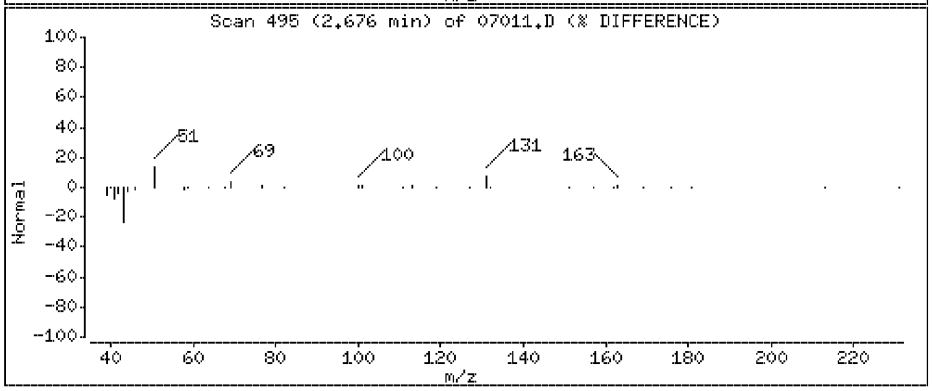












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

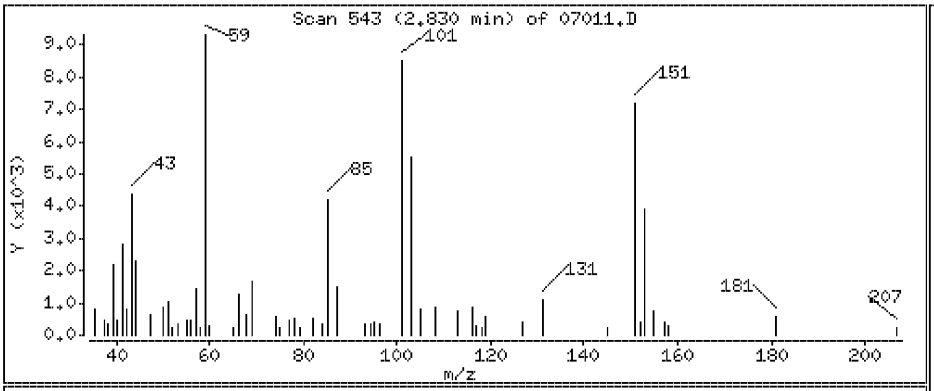
Operator: DR1

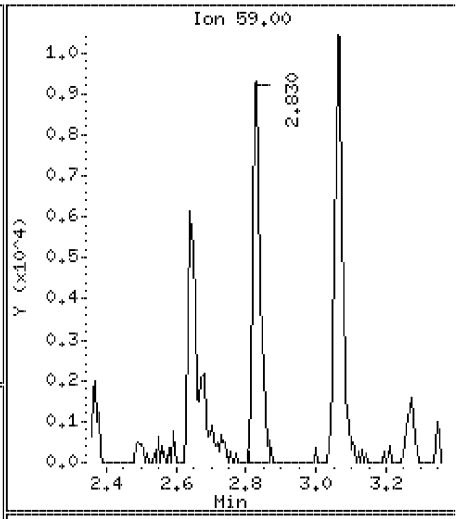
Column phase: J&W DB-5

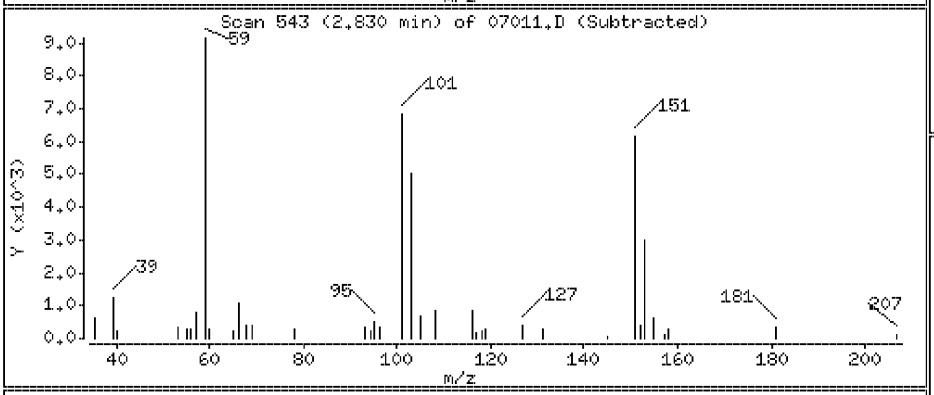
Column diameter: 0.32

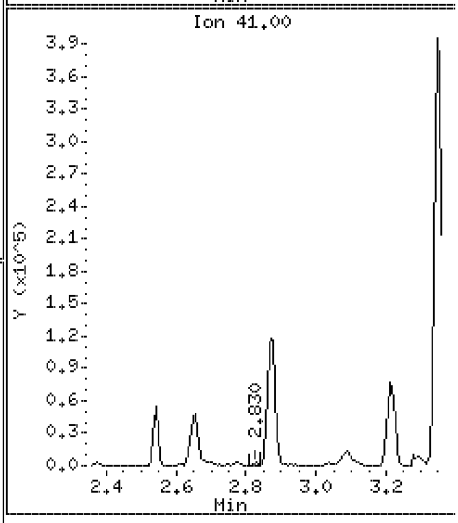
24 Tert Butyl Alcohol (TBA)

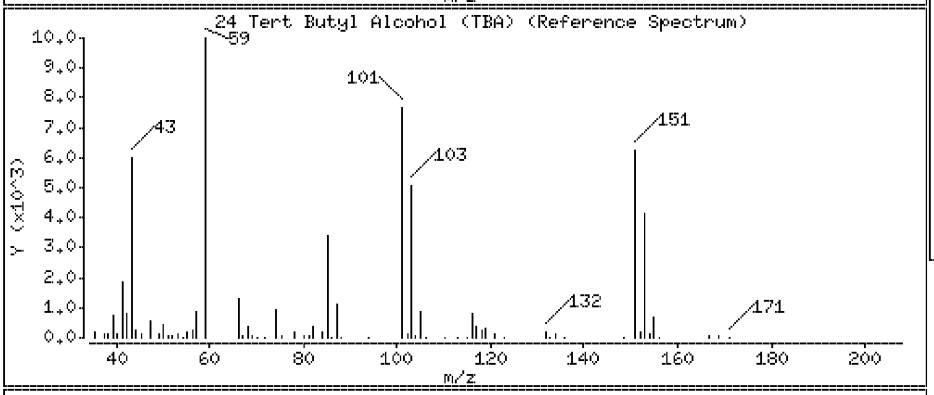
Concentration: 0.963 ppbv

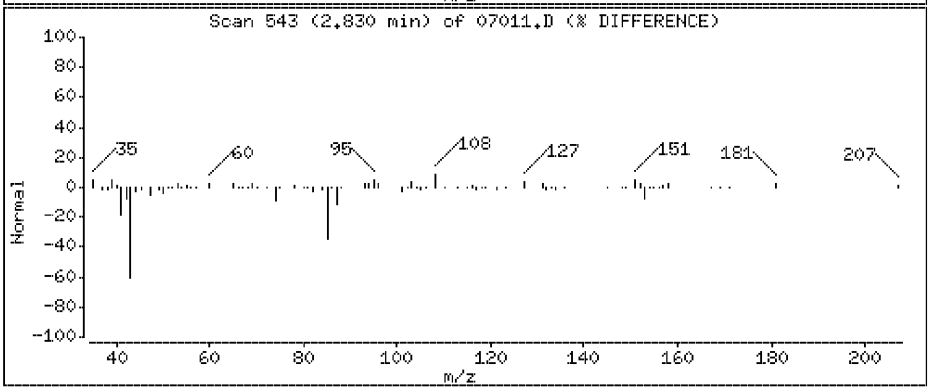












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

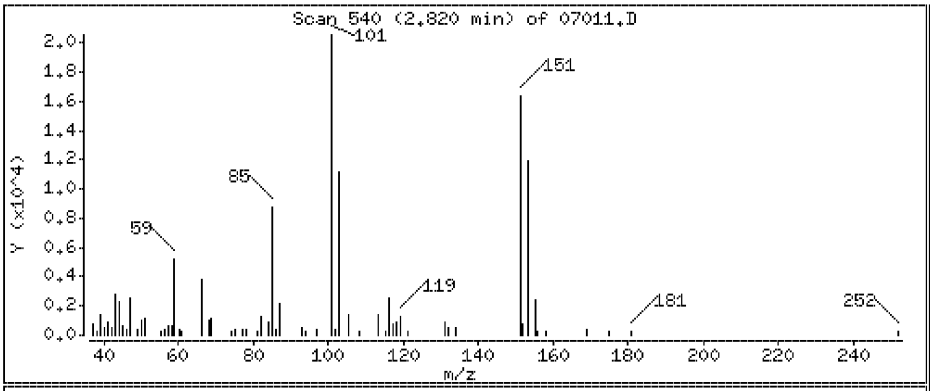
Operator: DR1

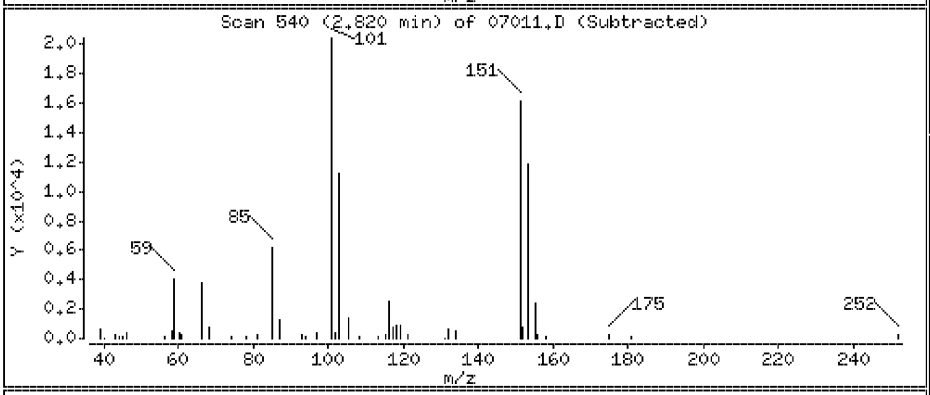
Column phase: J&W DB-5

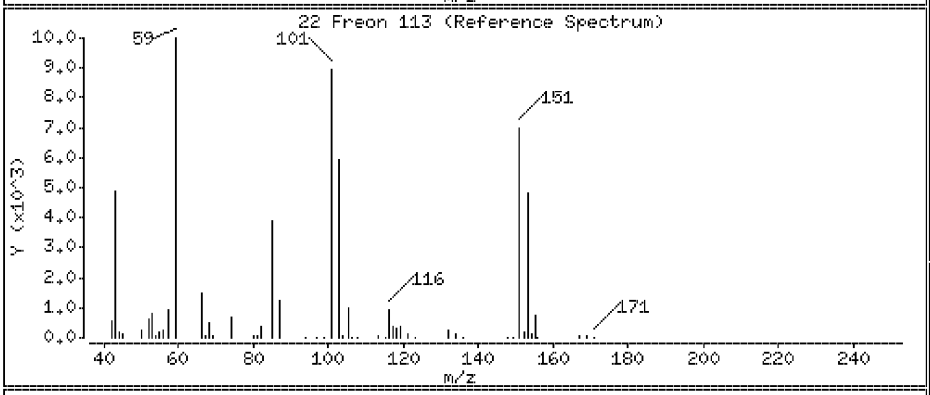
Column diameter: 0.32

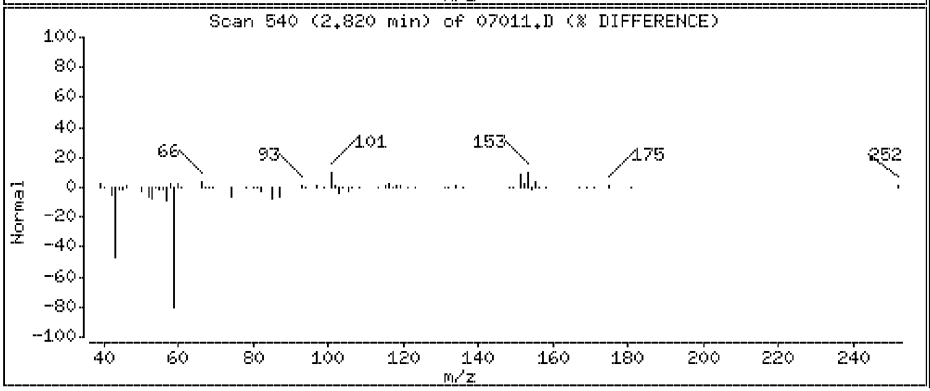
22 Freon 113

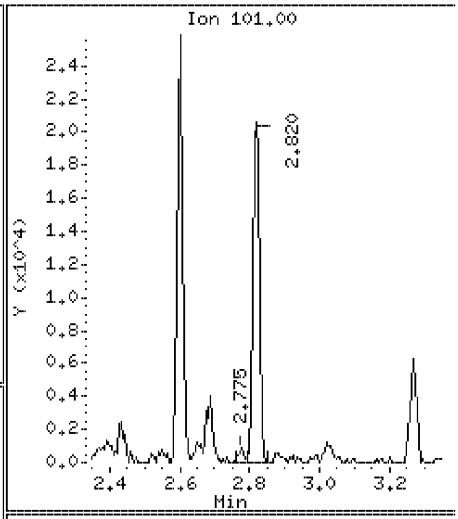
Concentration: 1.04 ppbv

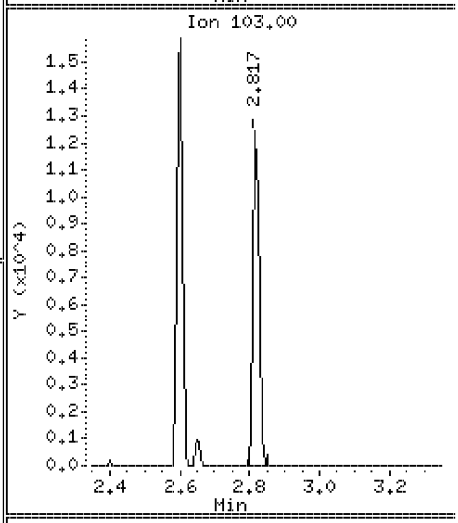


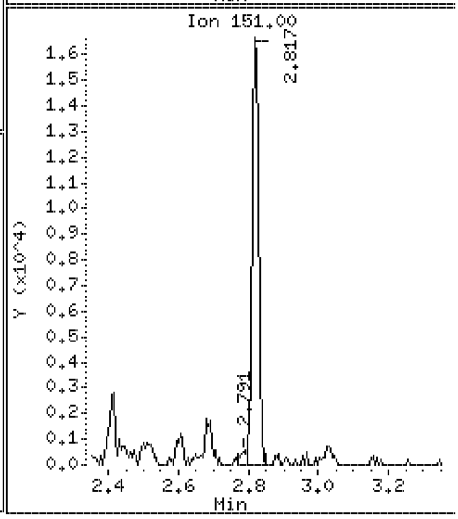












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

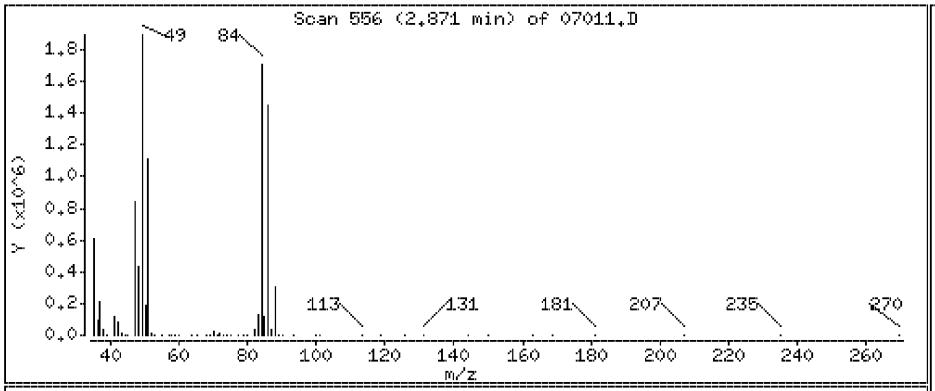
Sample Info:

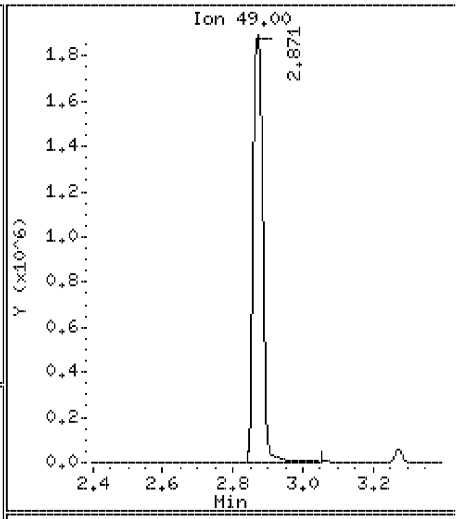
Operator: DR1

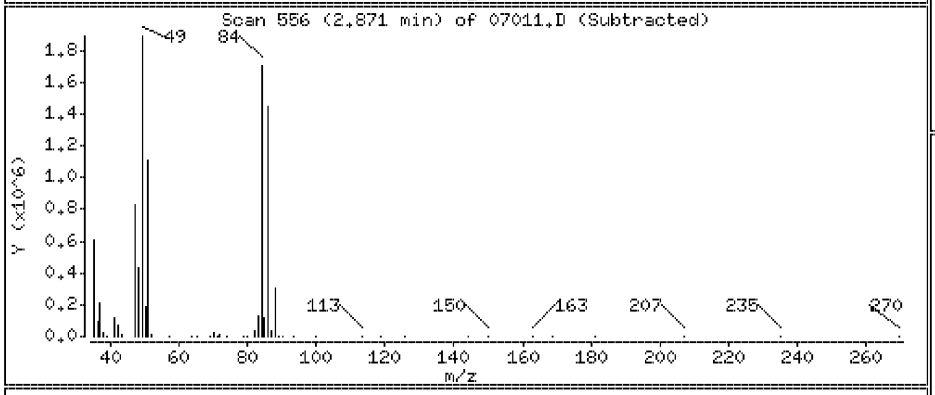
Column phase: J&W DB-5

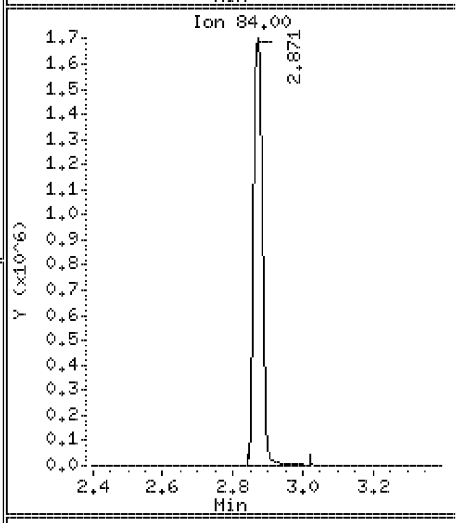
Column diameter: 0.32

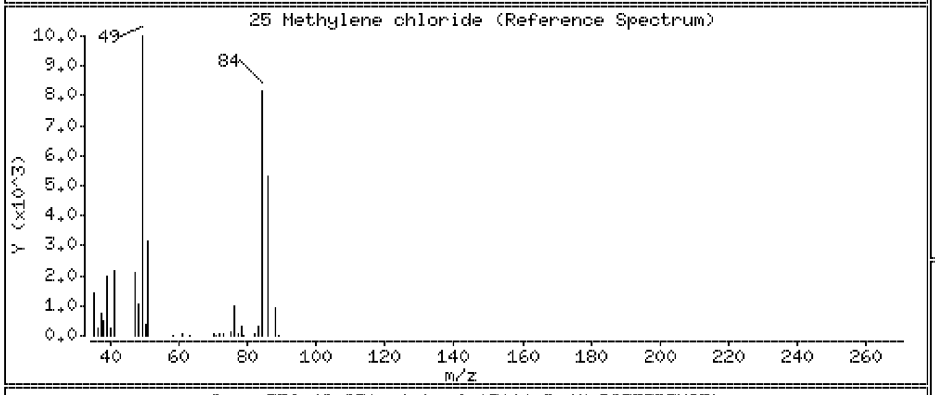
25 Methylene chloride

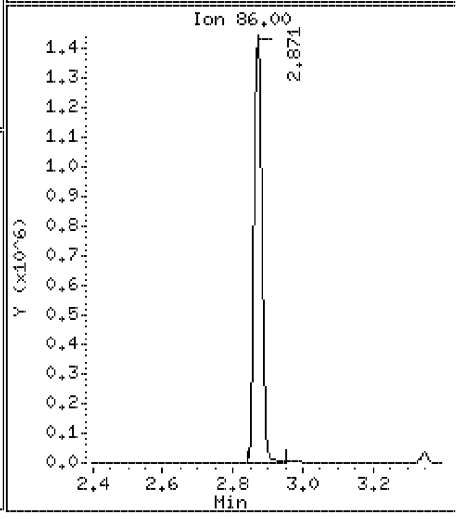


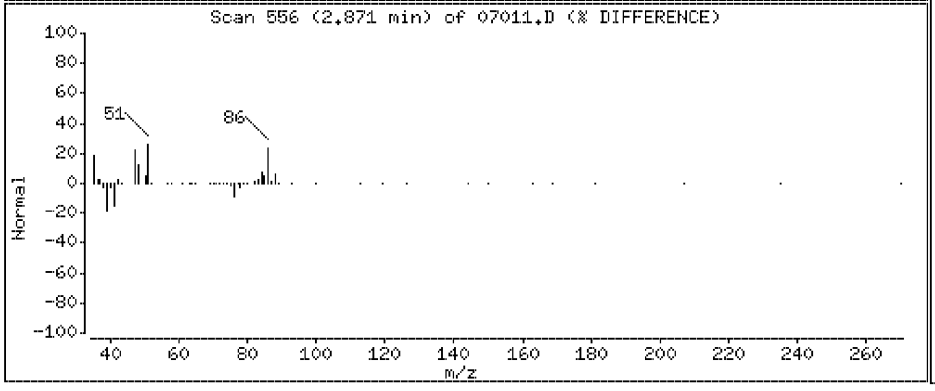












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

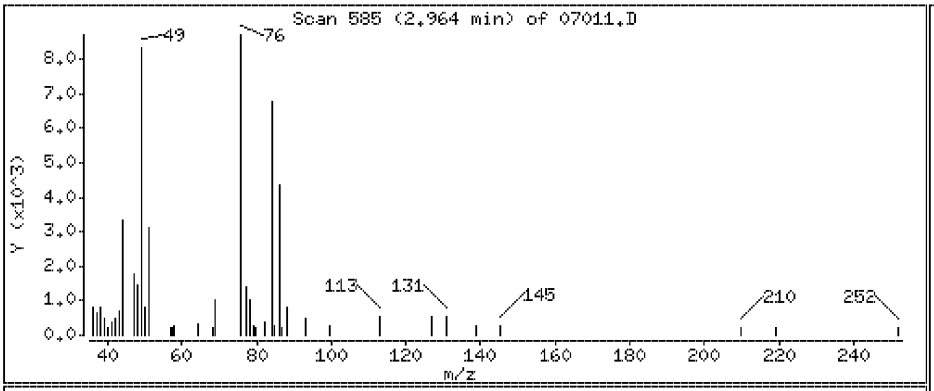
Operator: DR1

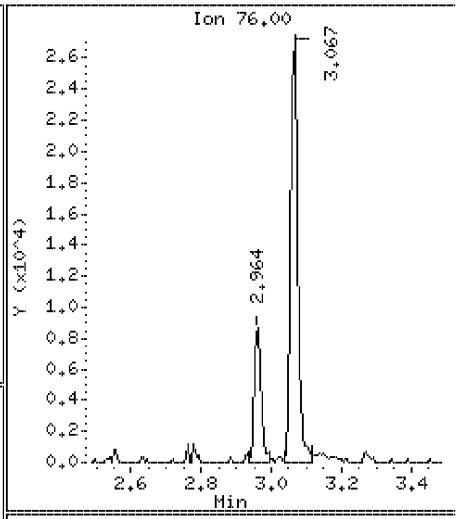
Column phase: J&W DB-5

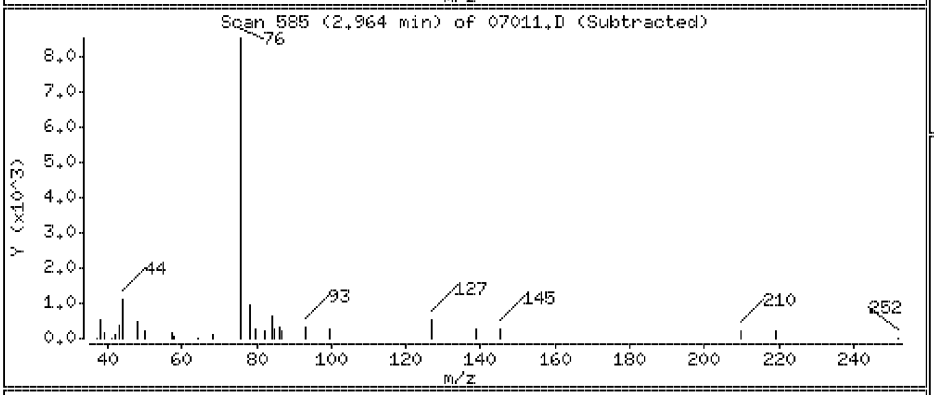
Column diameter: 0.32

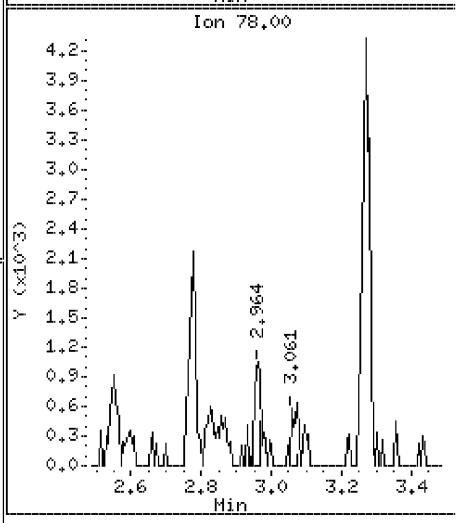
27 Carbon Disulfide

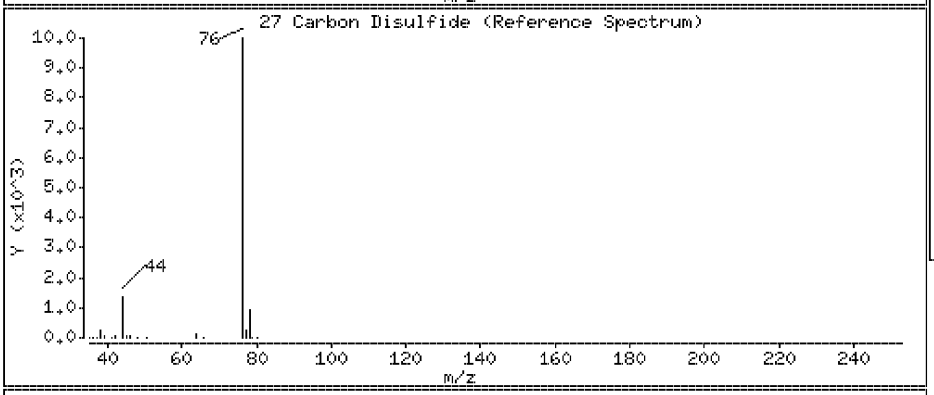
Concentration: 0.445 ppbv

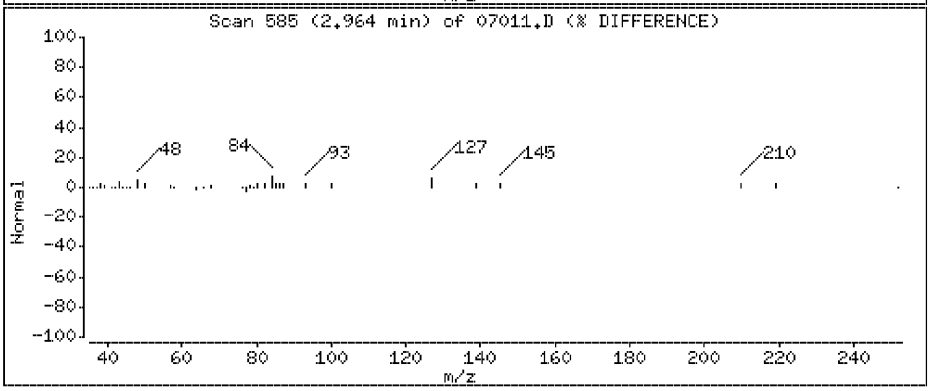












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

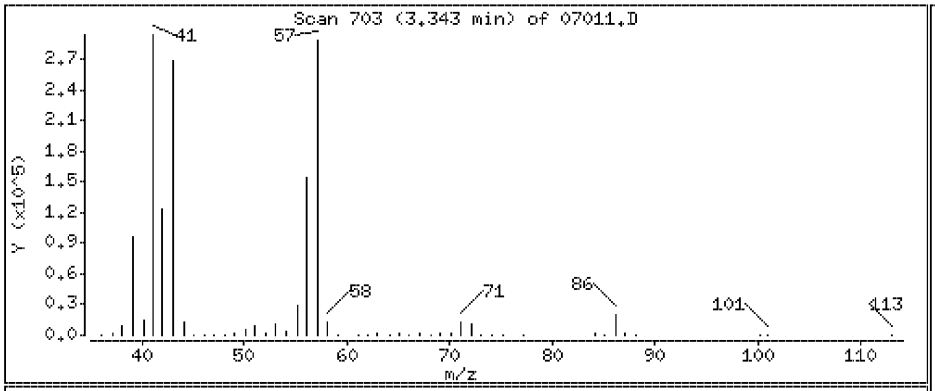
Operator: DR1

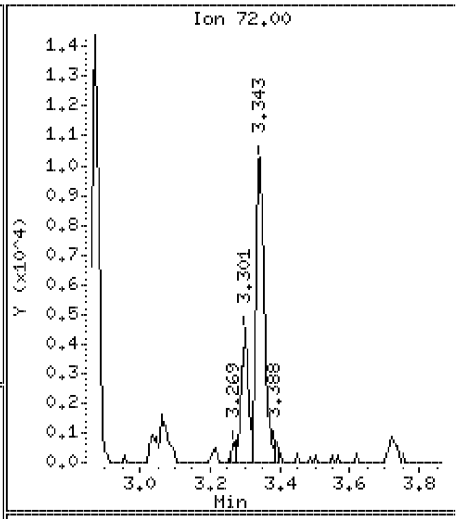
Column phase: J&W DB-5

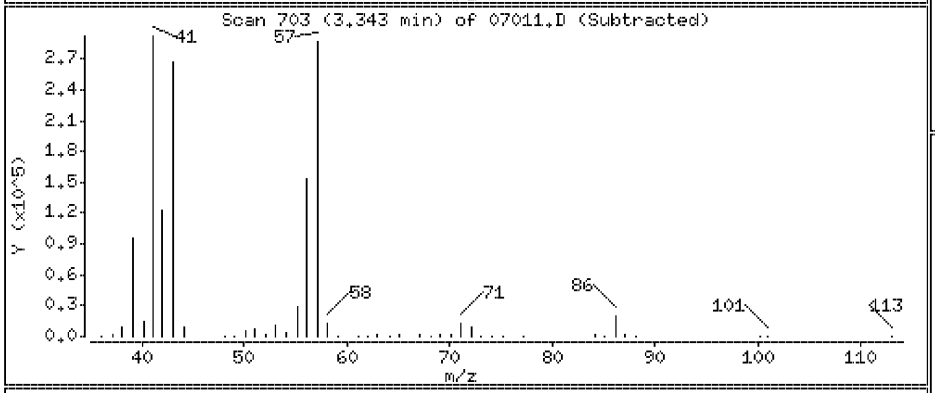
Column diameter: 0.32

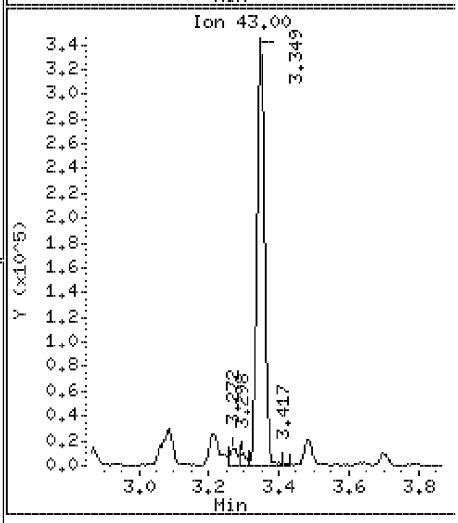
33 Methyl Ethyl Ketone

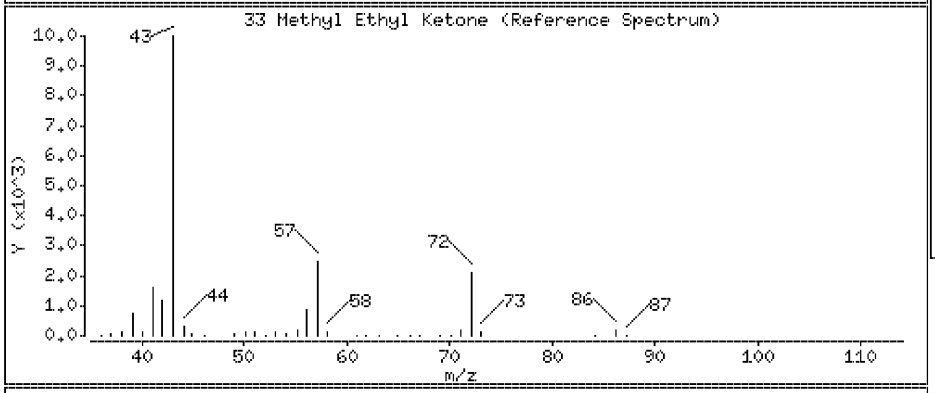
Concentration: 4.05 ppbv

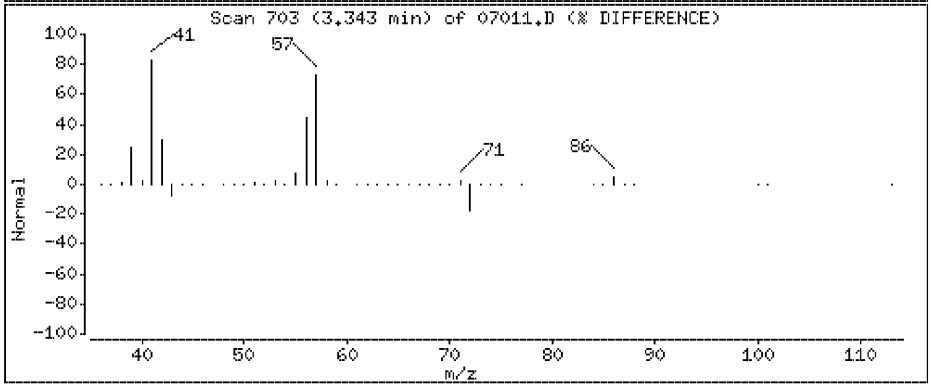












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

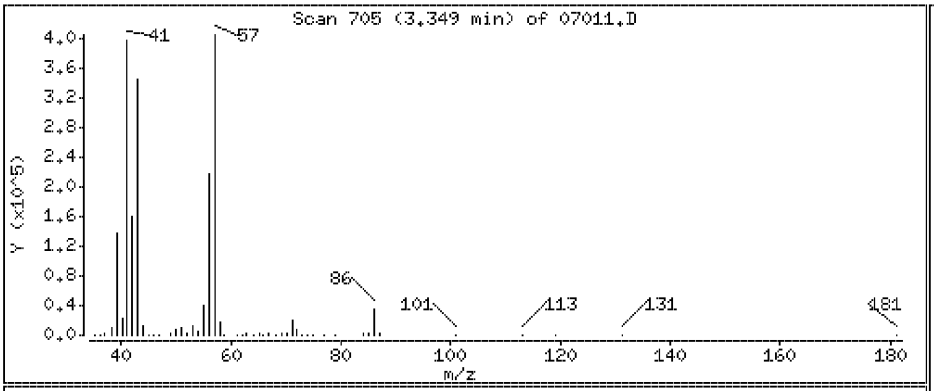
Operator: DR1

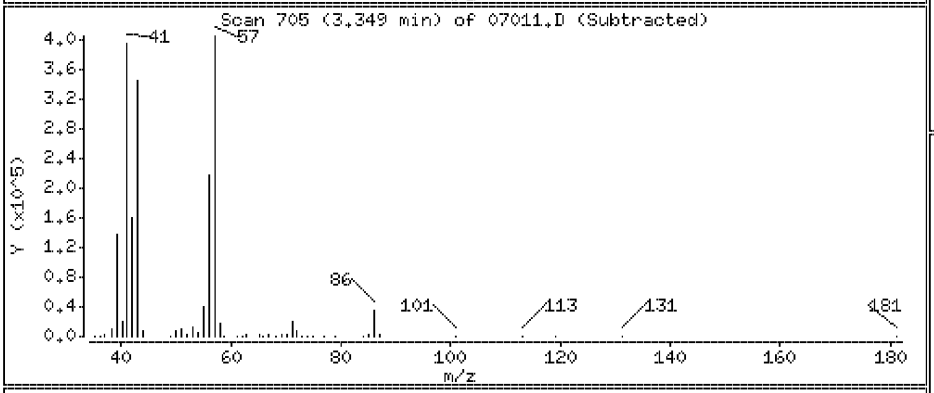
Column phase: J&W DB-5

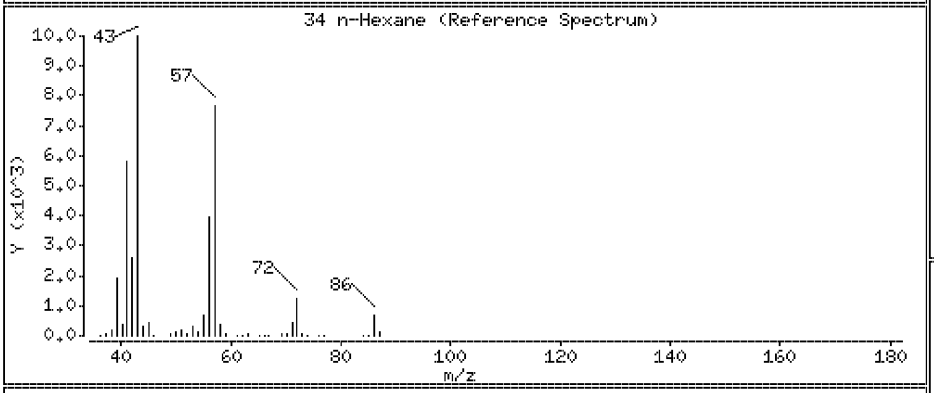
Column diameter: 0.32

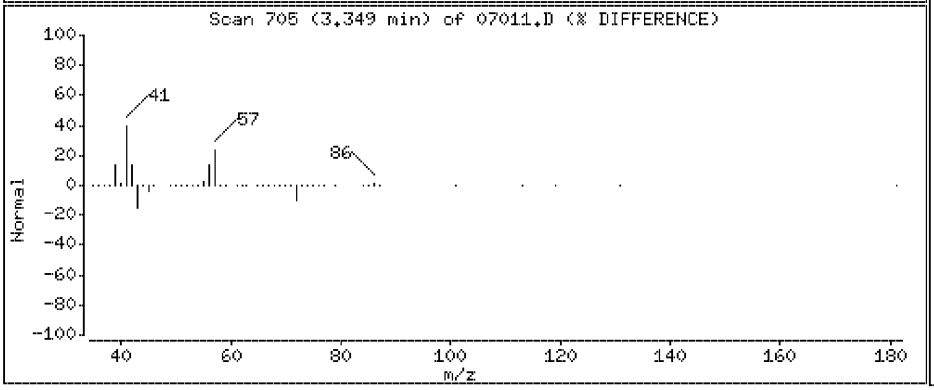
34 n-Hexane

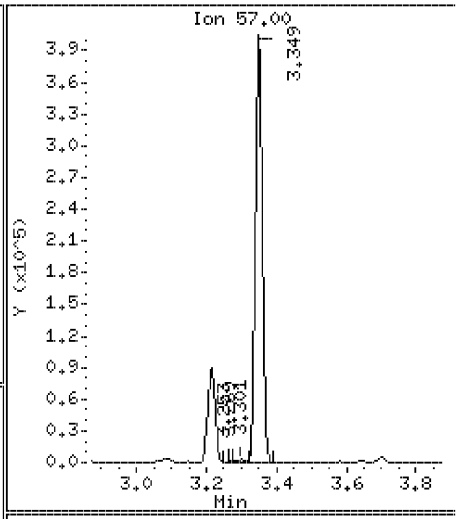
Concentration: 34.4 ppbv

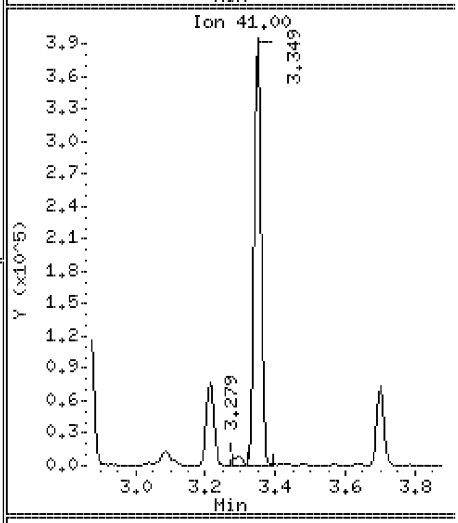


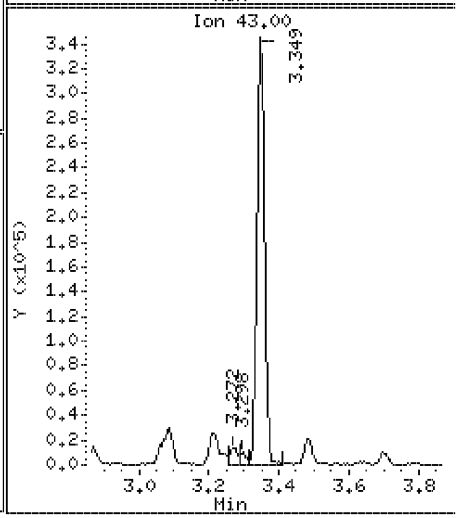












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

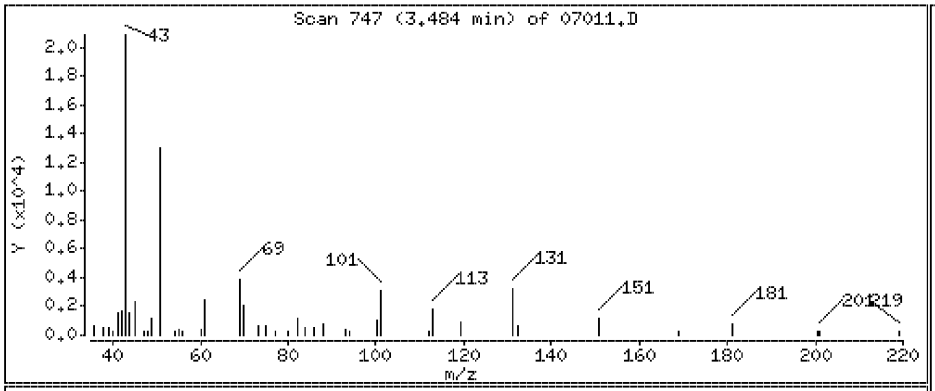
Operator: DR1

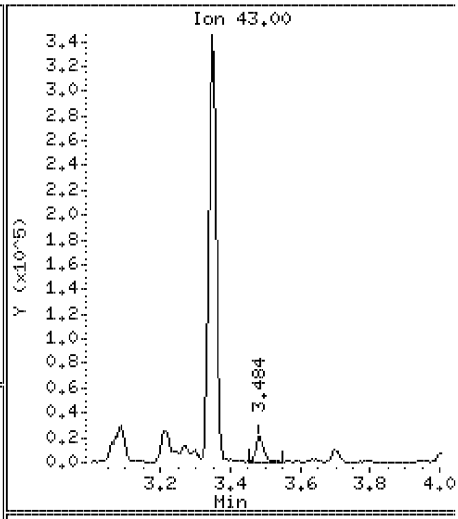
Column phase: J&W DB-5

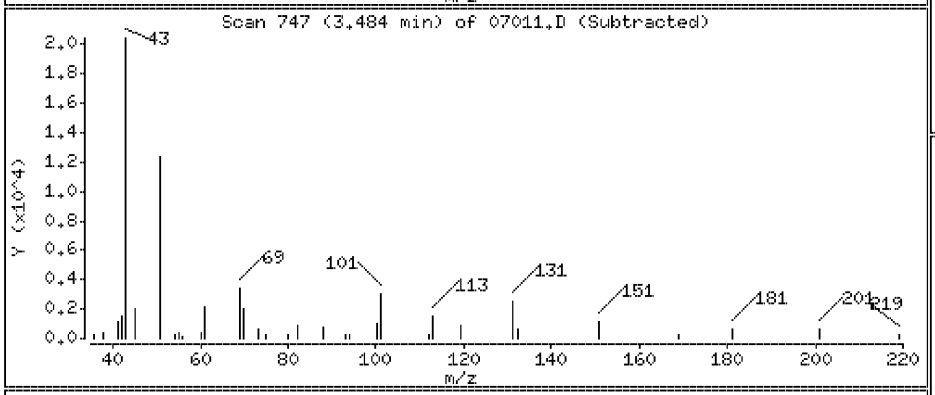
Column diameter: 0.32

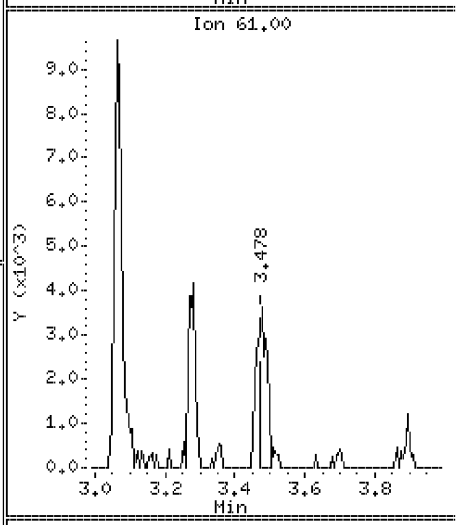
37 Ethyl Acetate

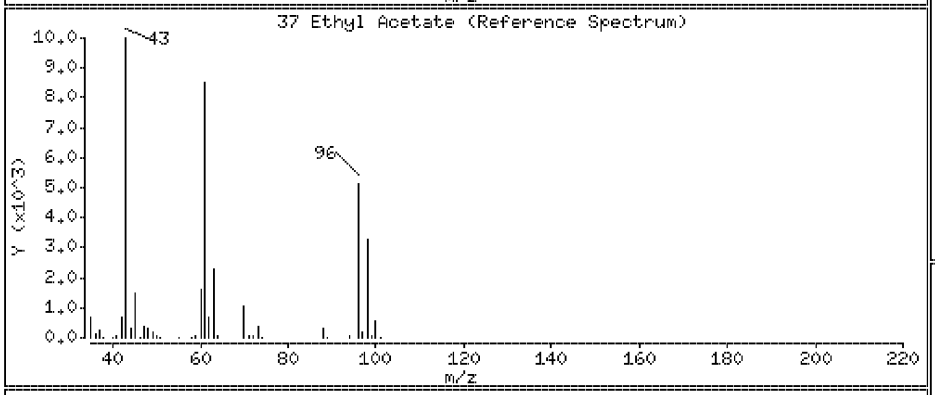
Concentration: 1.24 ppbv

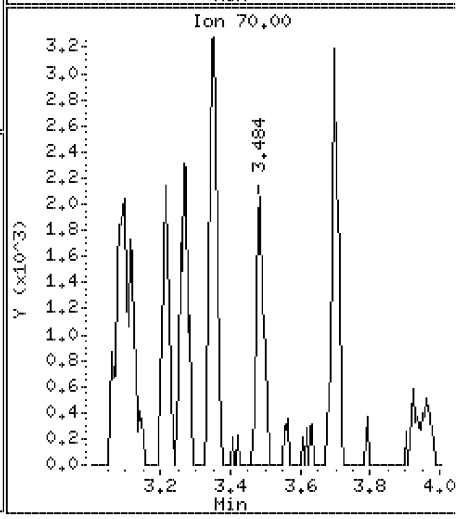


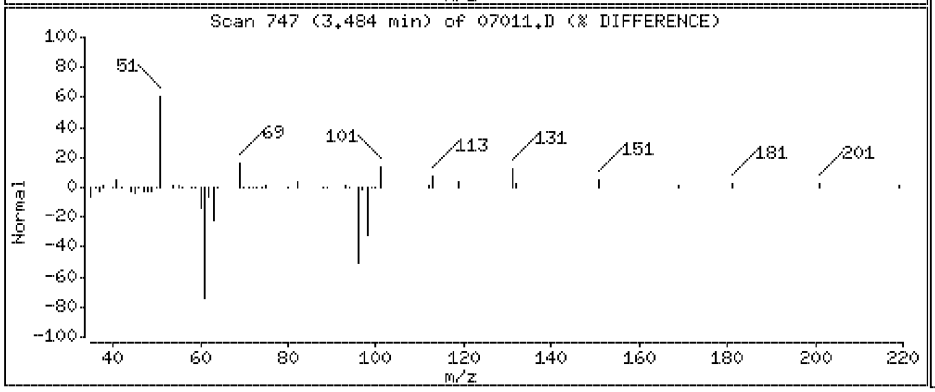












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

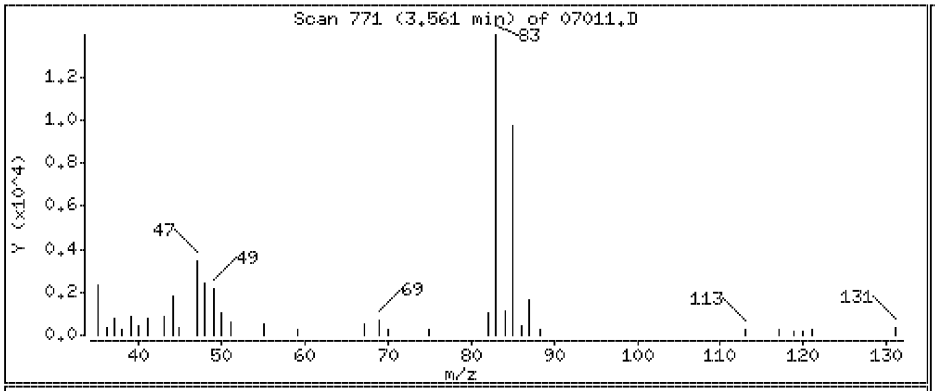
Operator: DR1

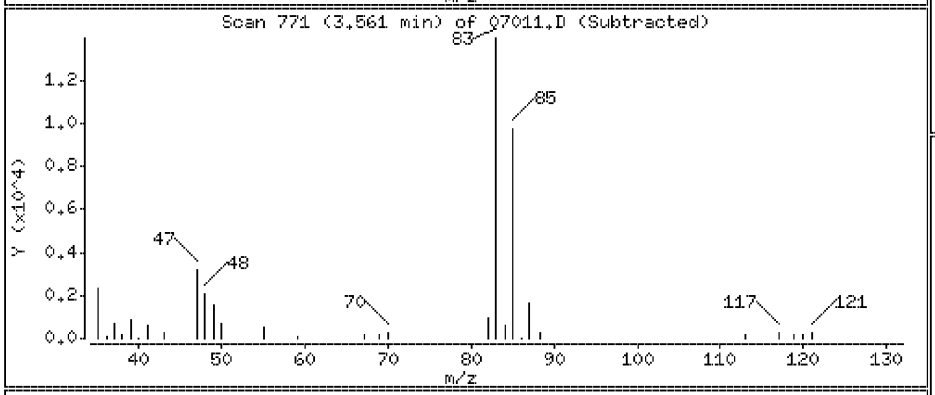
Column phase: J&W DB-5

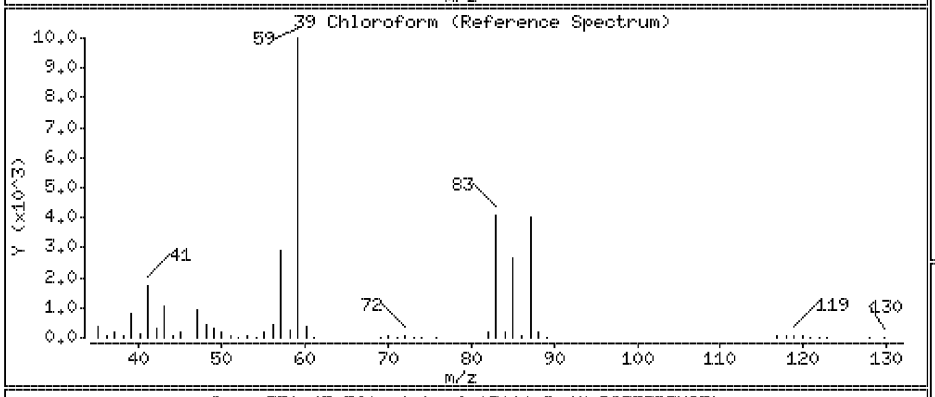
Column diameter: 0.32

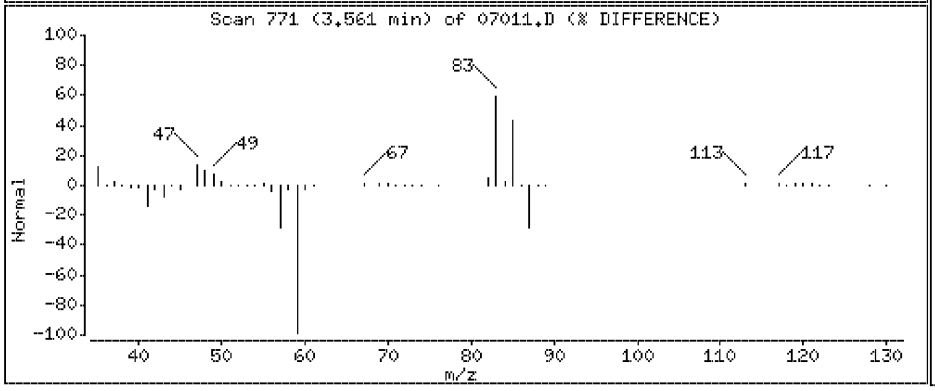
39 Chloroform

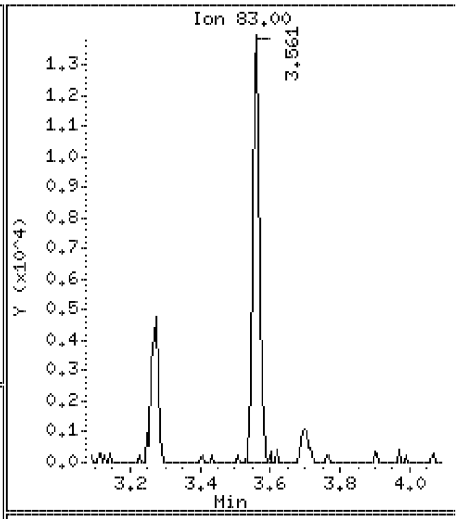
Concentration: 0.709 ppbv

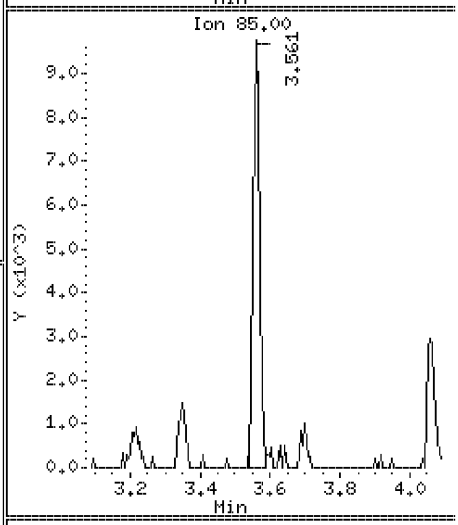


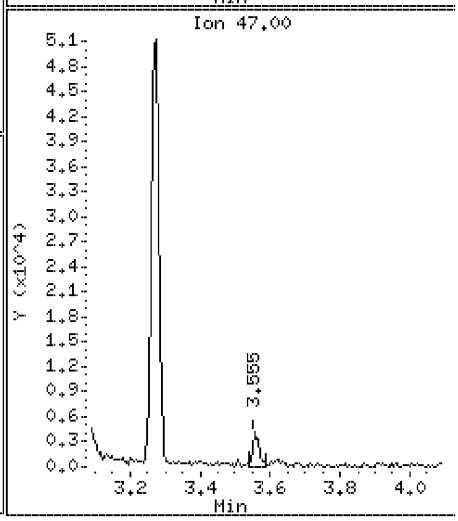












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

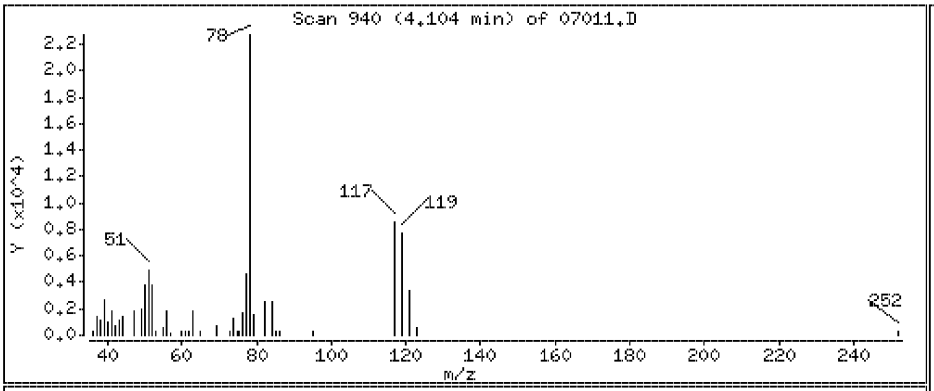
Operator: DR1

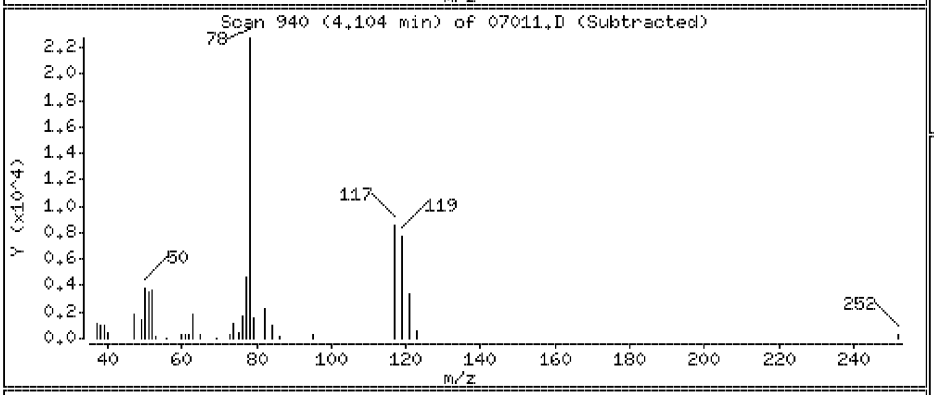
Column phase: J&W DB-5

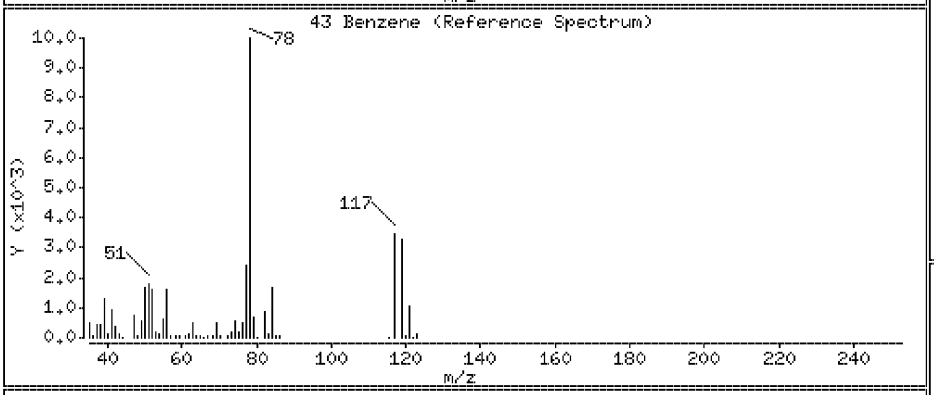
Column diameter: 0.32

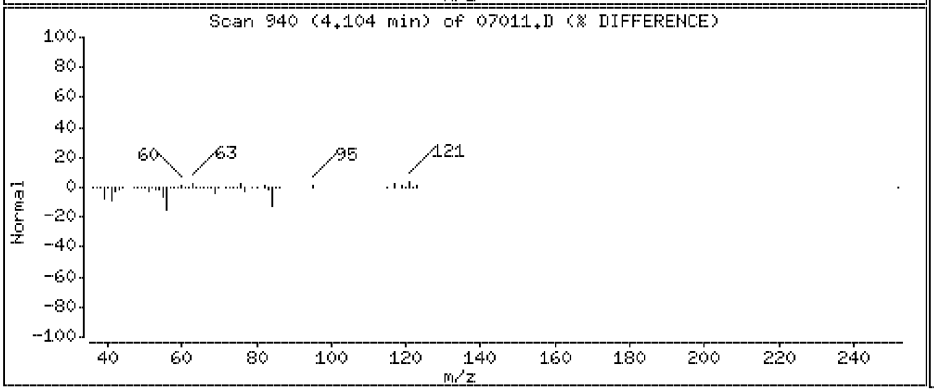
43 Benzene

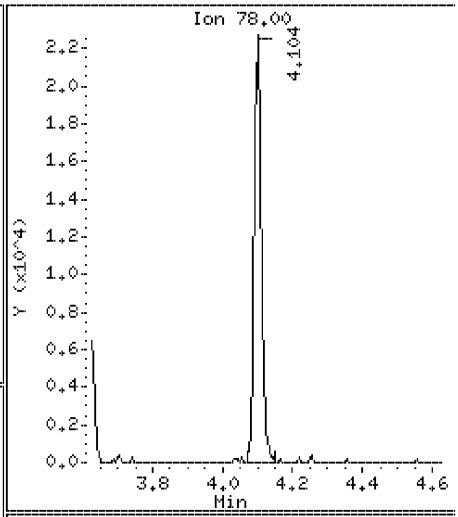
Concentration: 1.05 ppbv

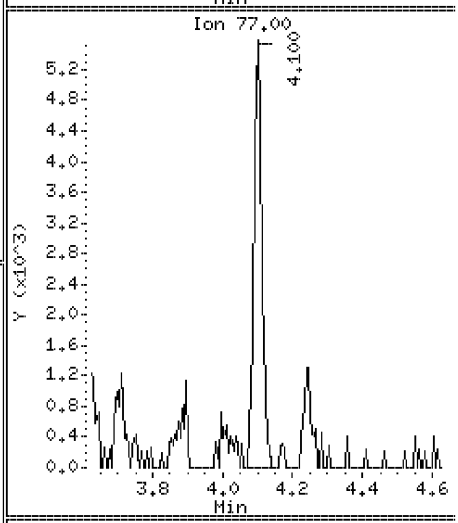


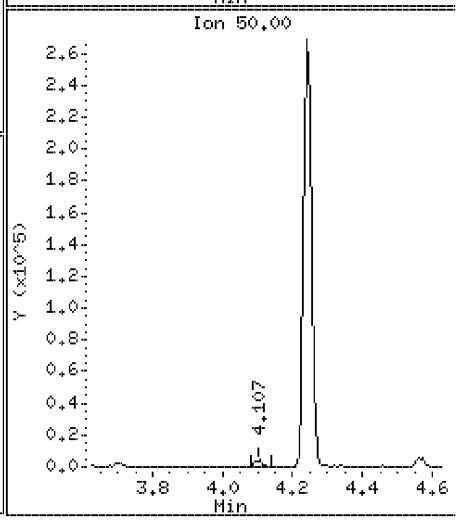












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

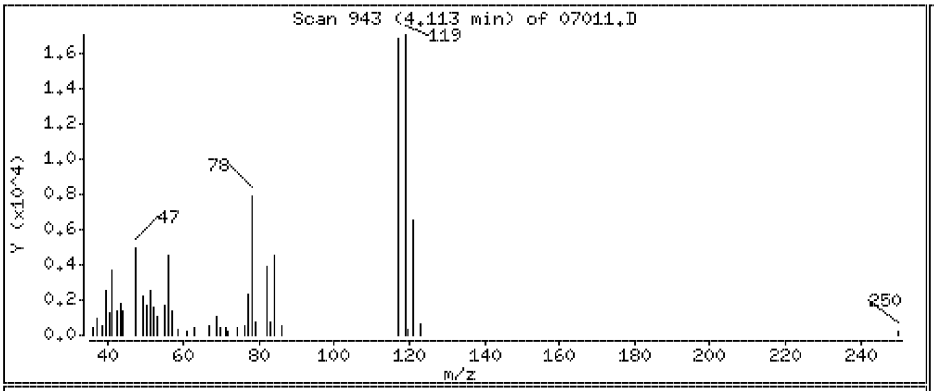
Operator: DR1

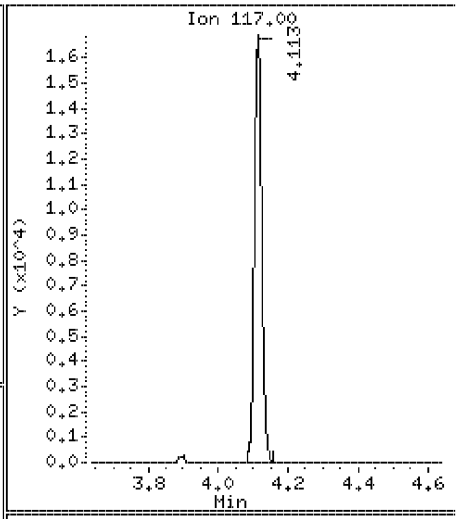
Column phase: J&W DB-5

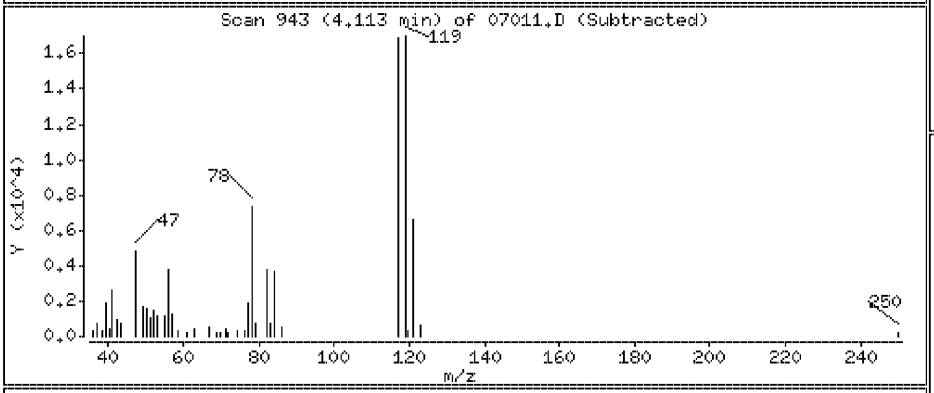
Column diameter: 0.32

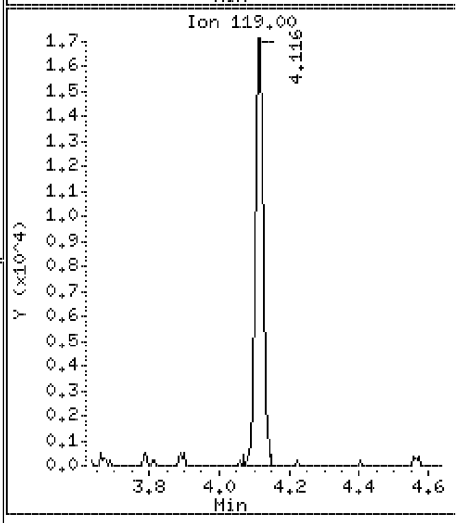
45 Carbon tetrachloride

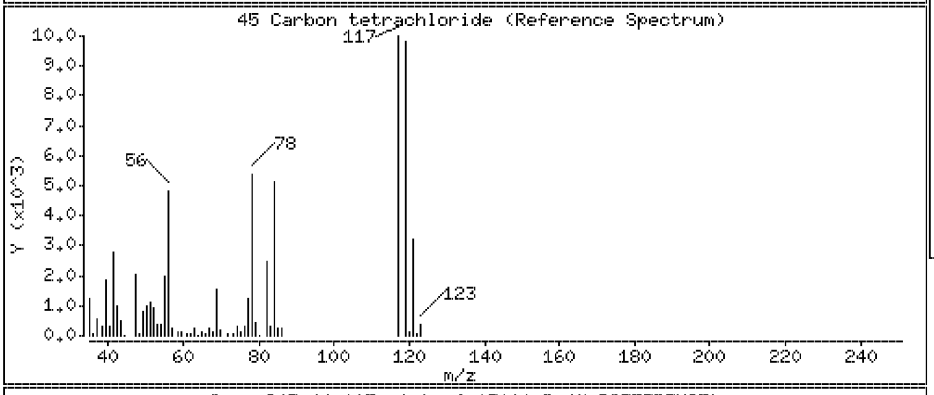
Concentration: 1.03 ppbv

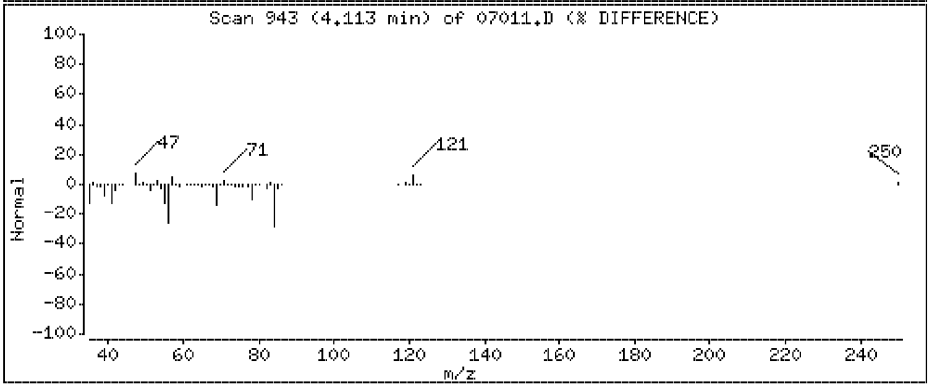












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

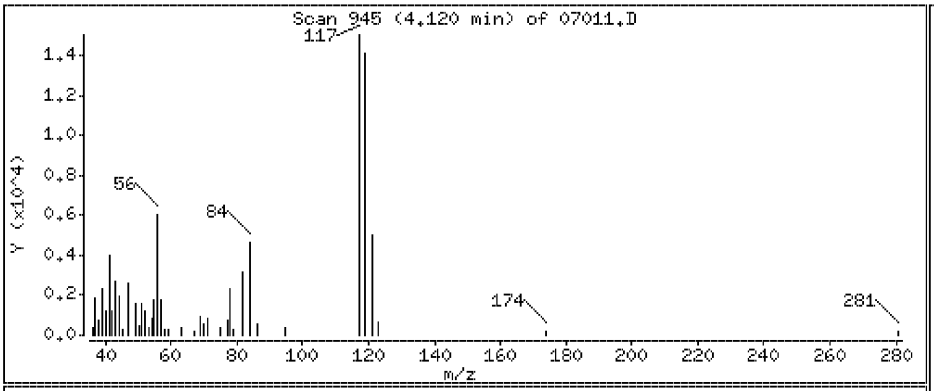
Operator: DR1

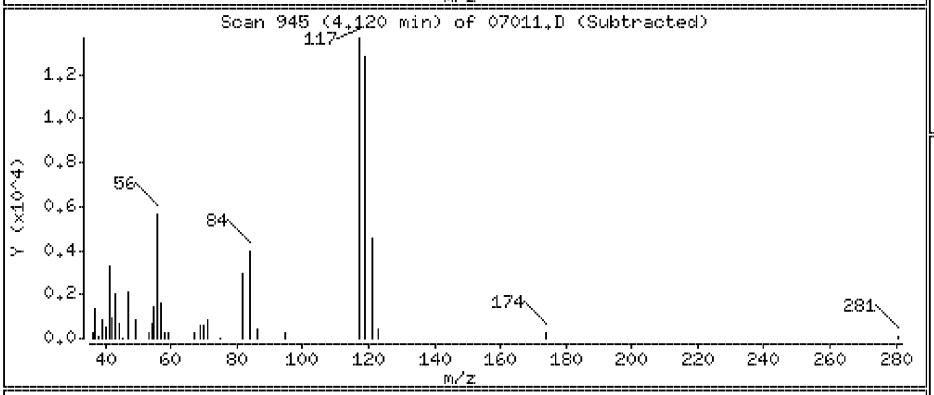
Column phase: J&W DB-5

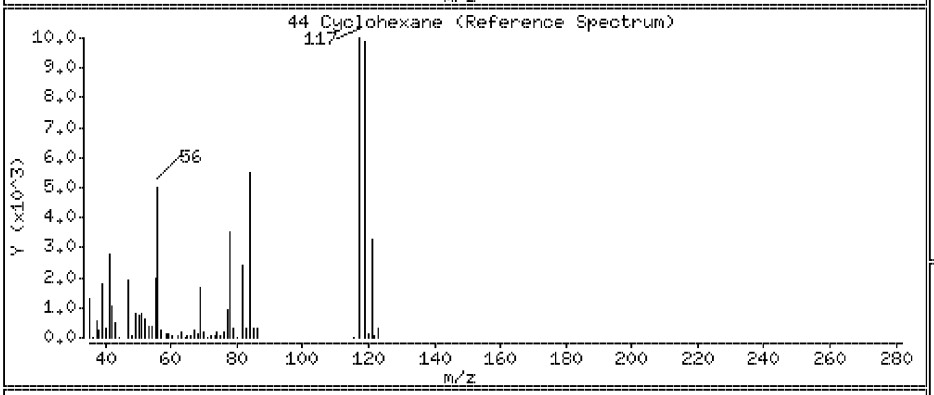
Column diameter: 0.32

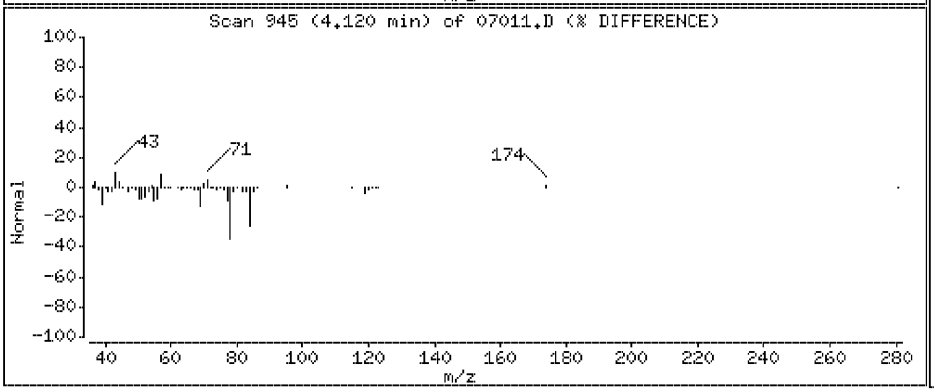
44 Cyclohexane

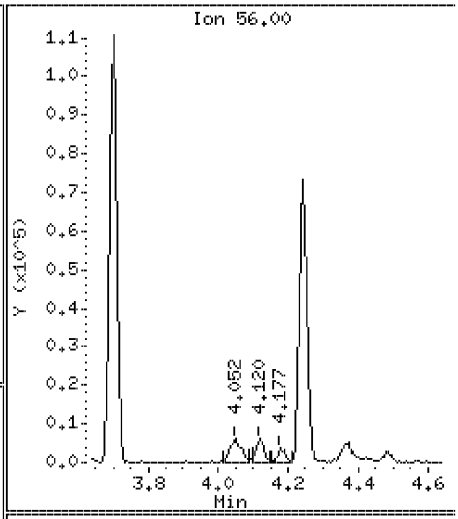
Concentration: 0.594 ppbv

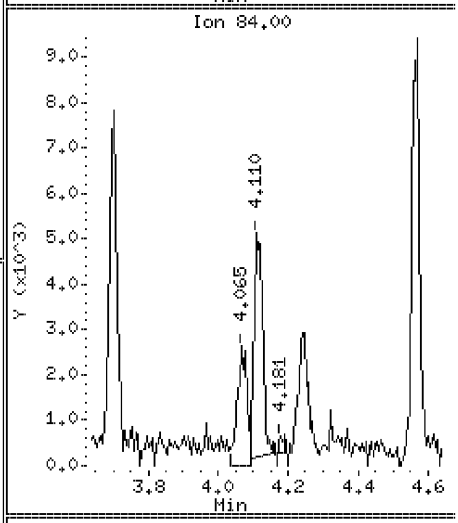


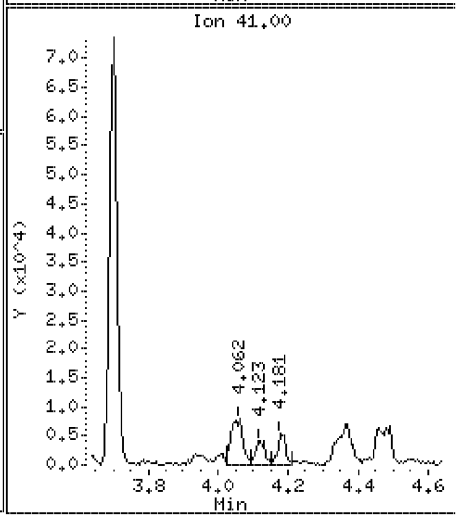












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

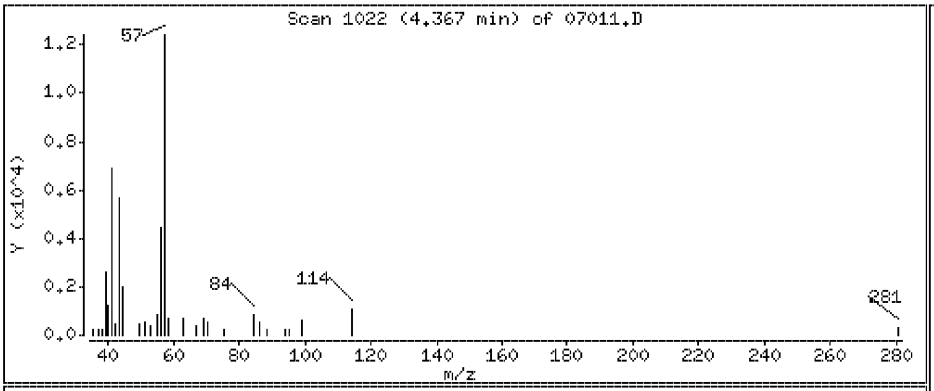
Operator: DR1

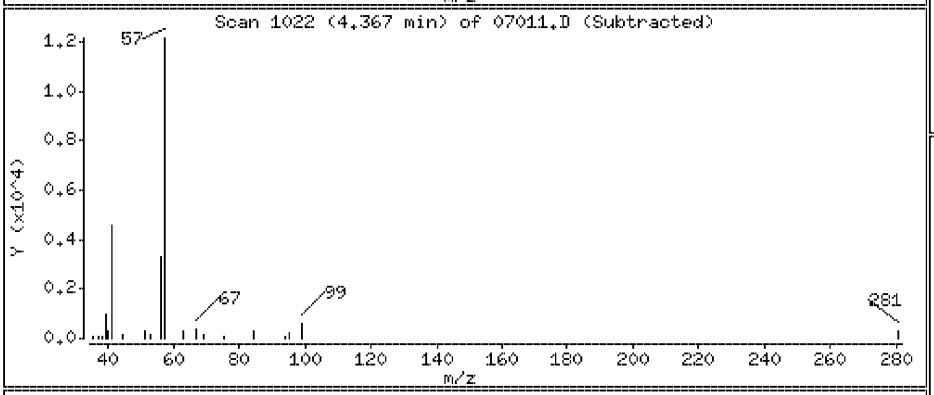
Column phase: J&W DB-5

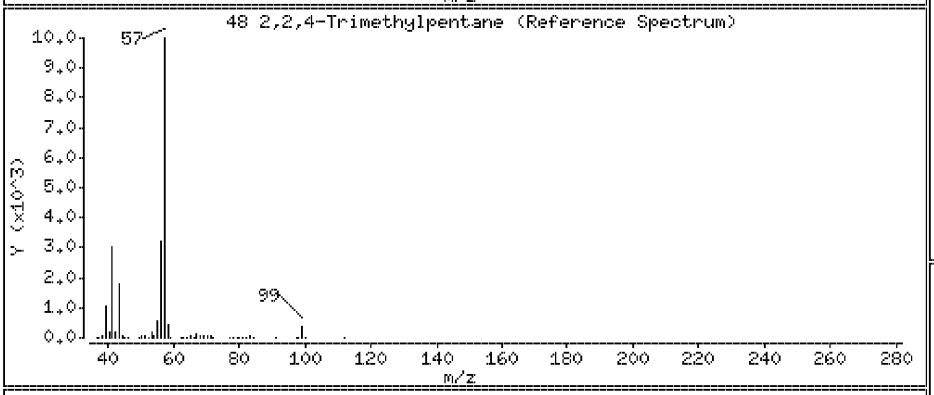
Column diameter: 0.32

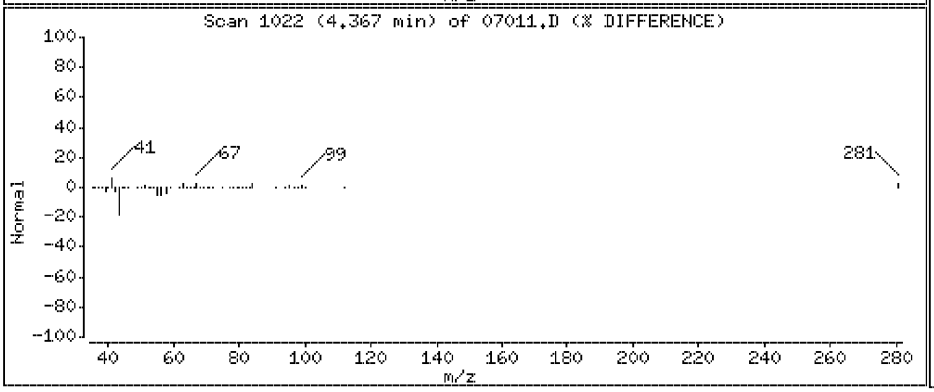
48 2,2,4-Trimethylpentane

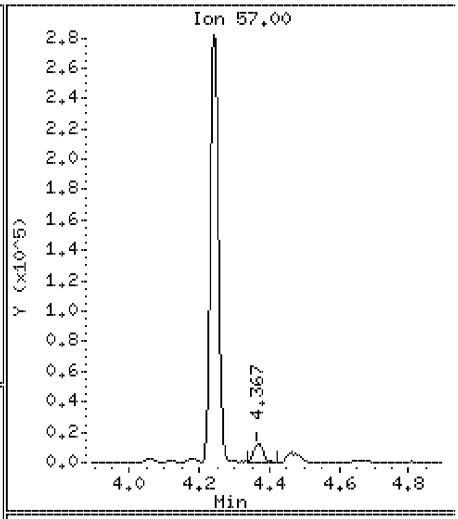
Concentration: 389 ppbv

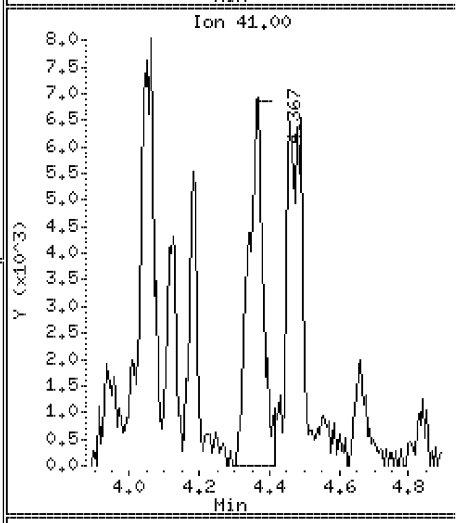


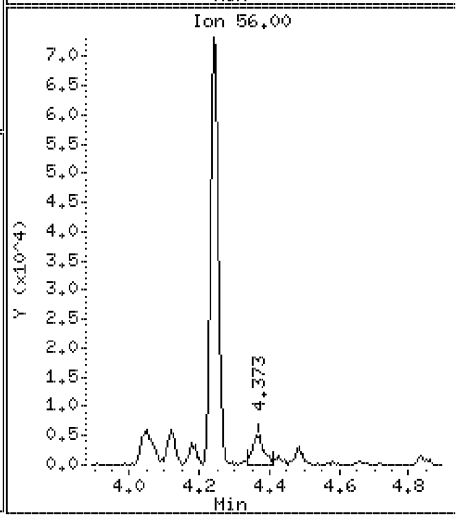












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

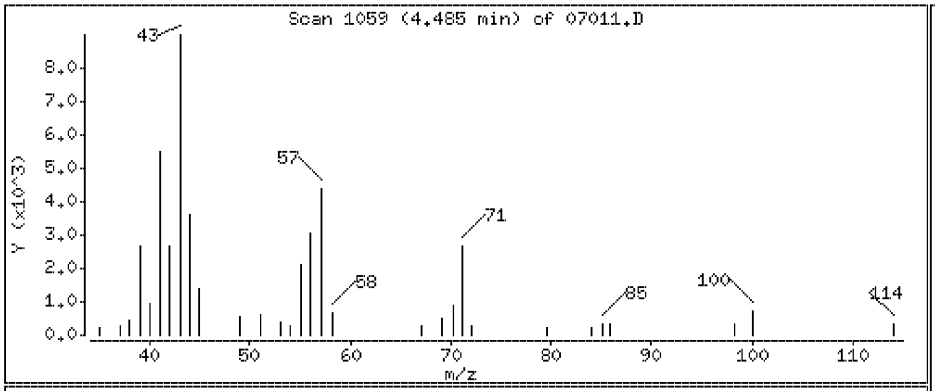
Operator: DR1

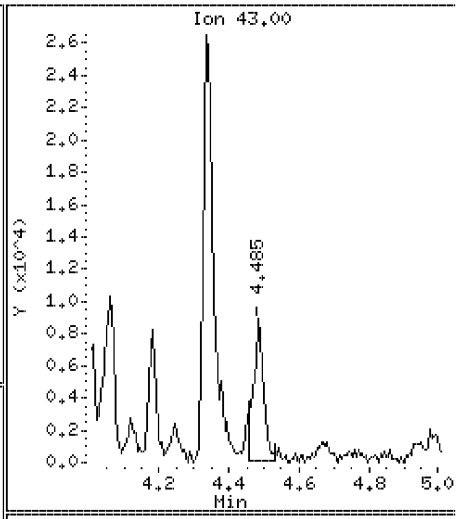
Column phase: J&W DB-5

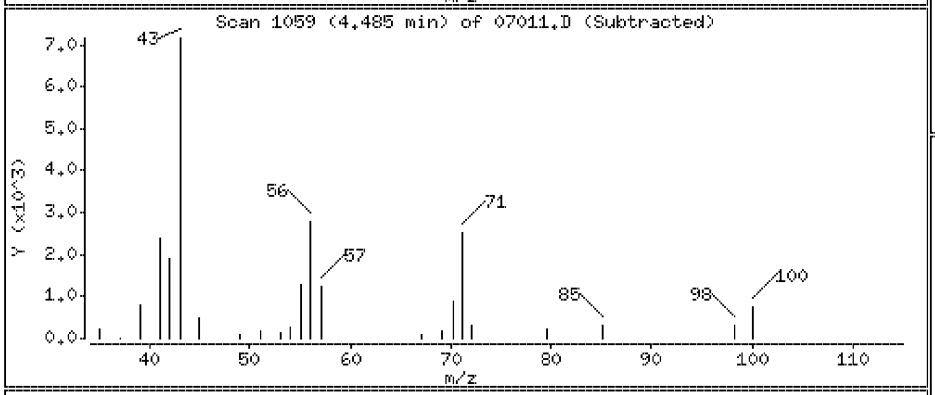
Column diameter: 0.32

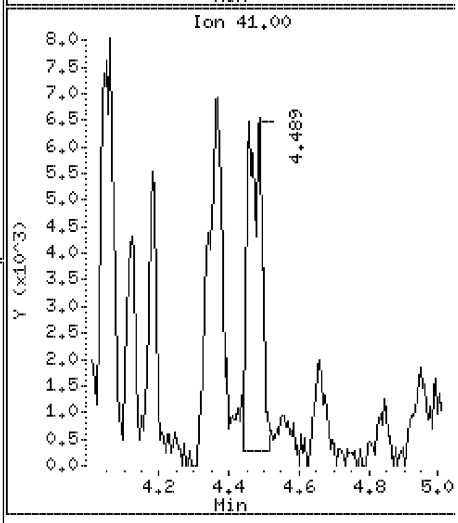
49 Heptane

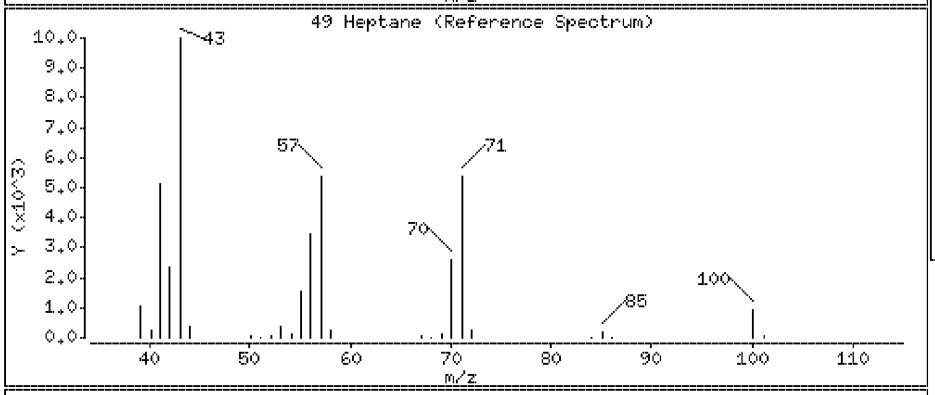
Concentration: 0.731 ppbv

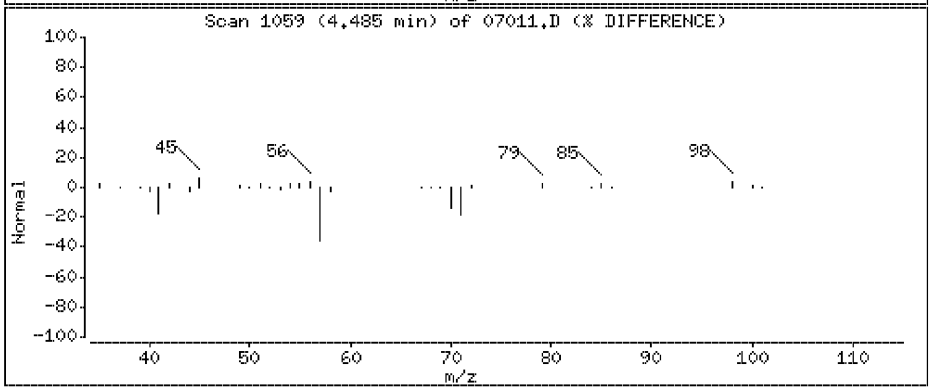












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

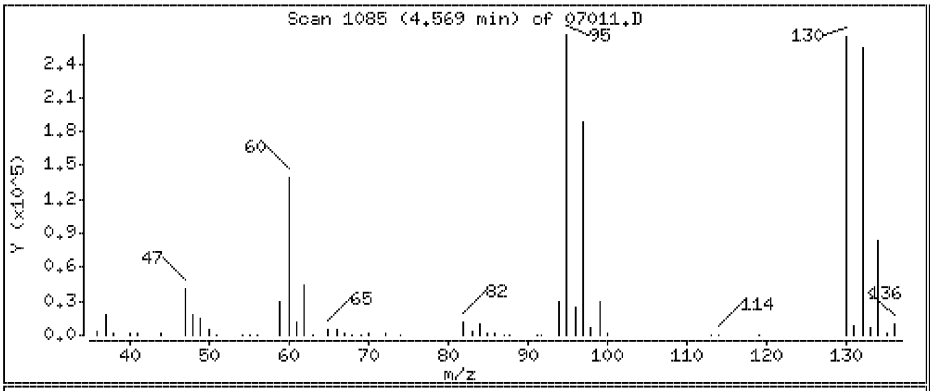
Operator: DR1

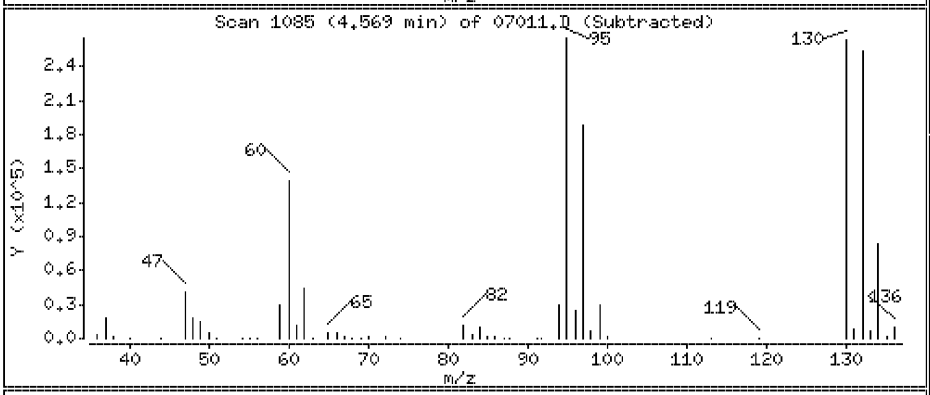
Column phase: J&W DB-5

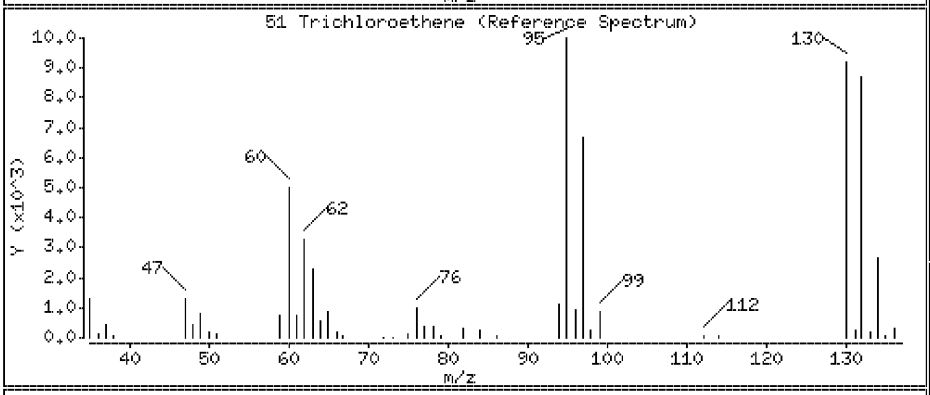
Column diameter: 0.32

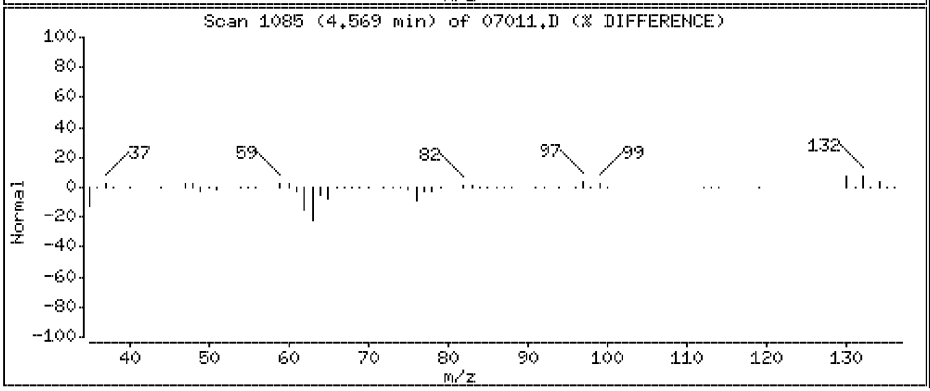
51 Trichloroethene

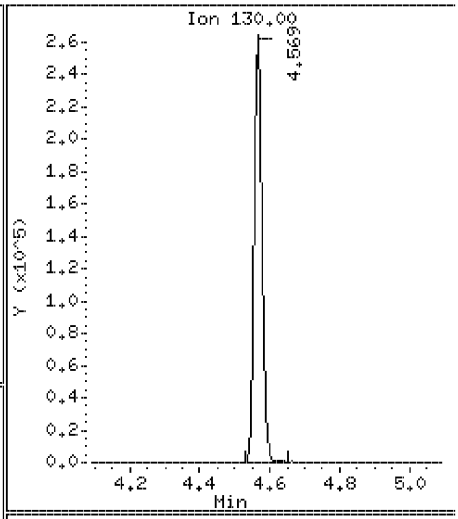
Concentration: 24.8 ppbv

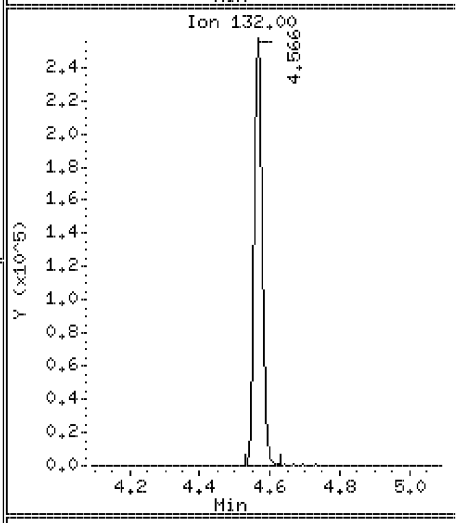


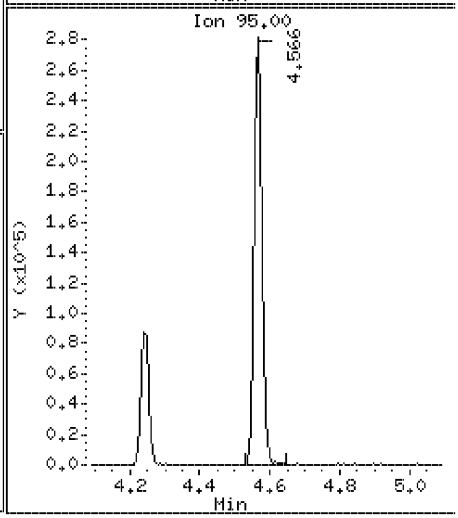












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

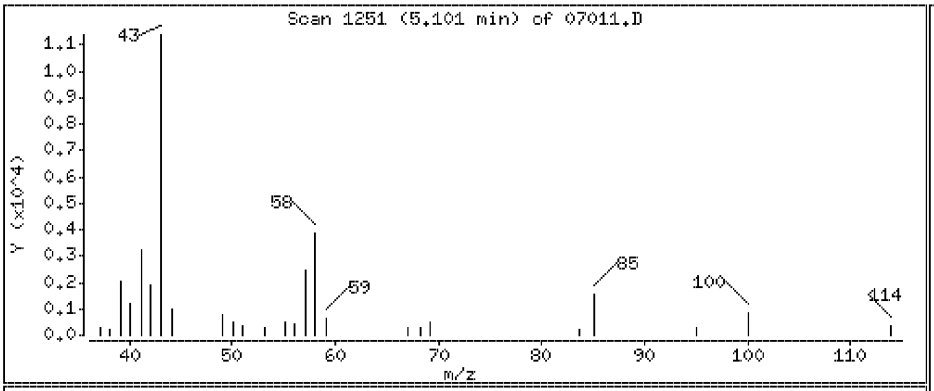
Operator: DR1

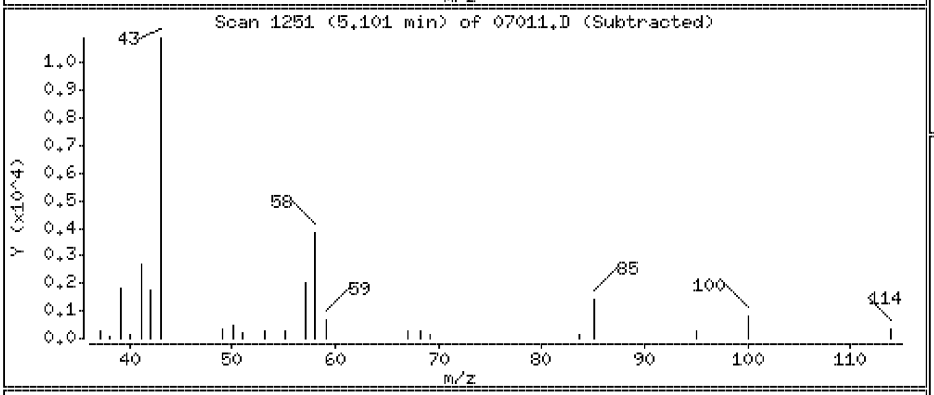
Column phase: J&W DB-5

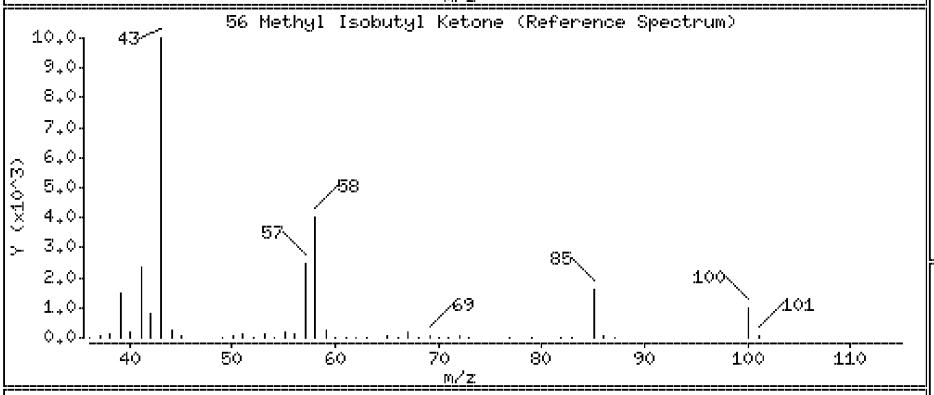
Column diameter: 0.32

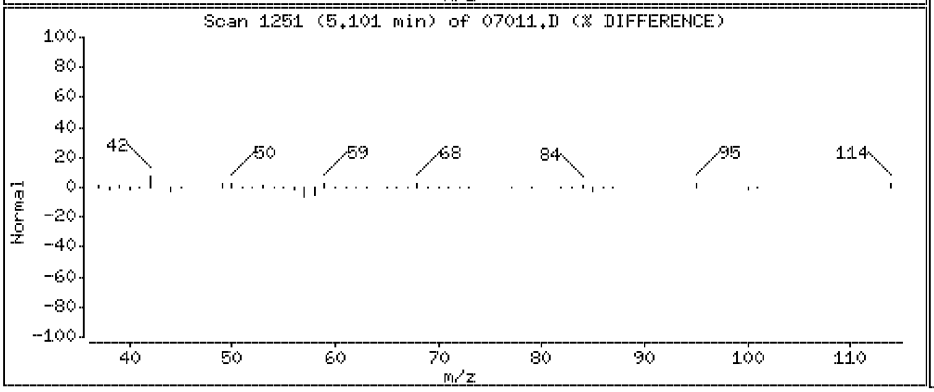
56 Methyl Isobutyl Ketone

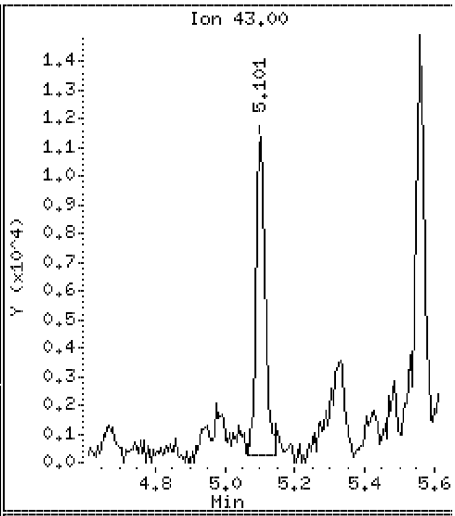
Concentration: 0.422 ppbv

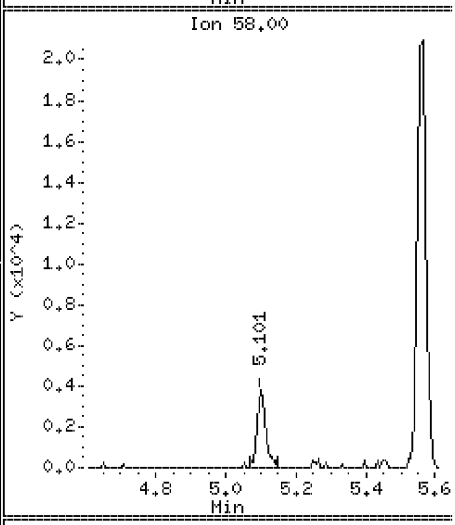


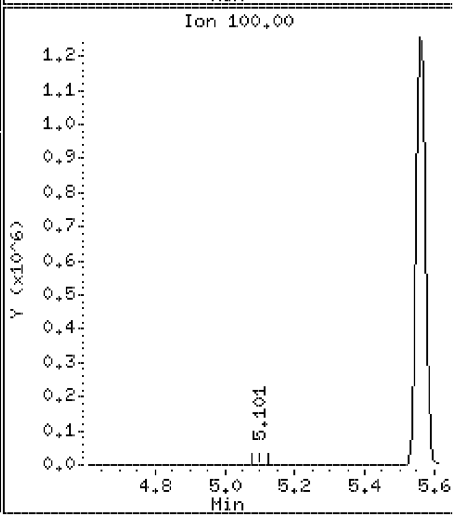












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

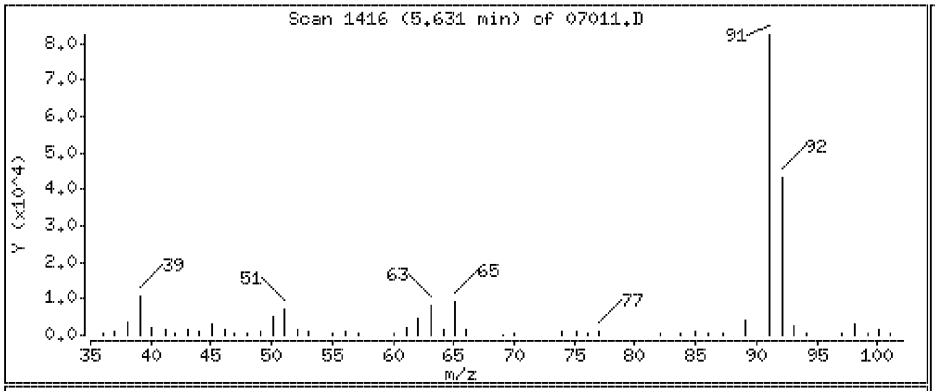
Operator: DR1

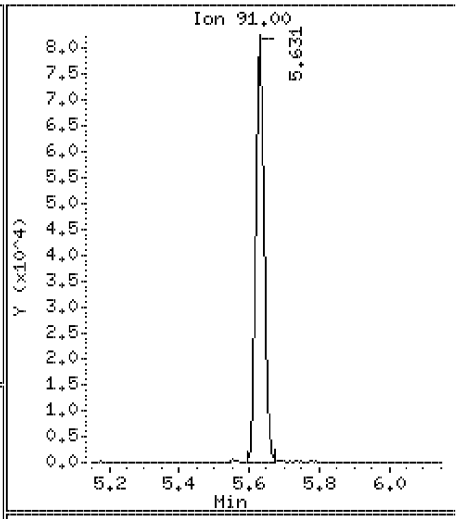
Column phase: J&W DB-5

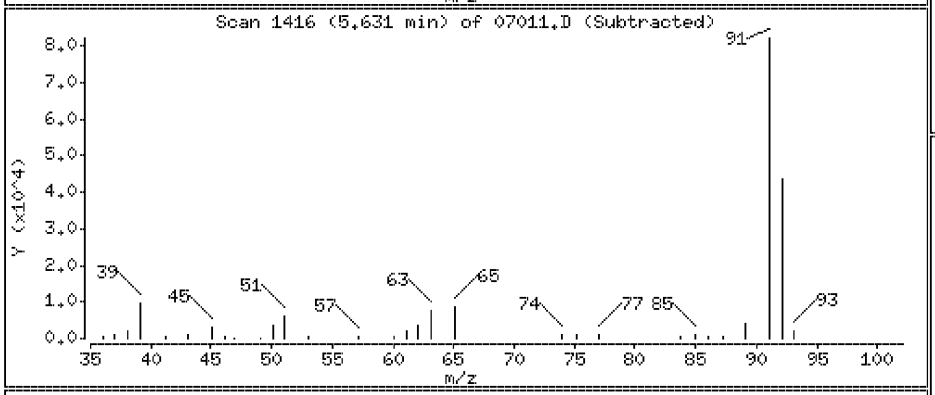
Column diameter: 0.32

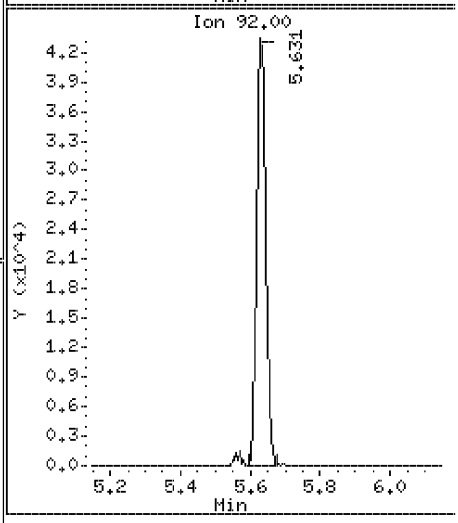
60 Toluene

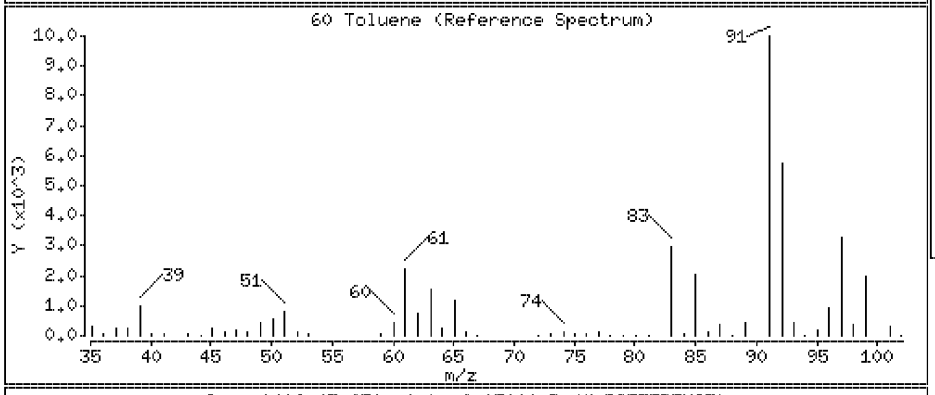
Concentration: 3.34 ppbv

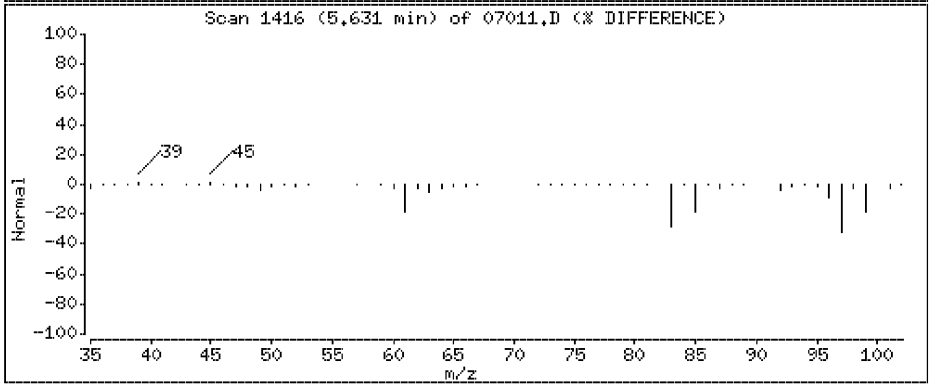












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

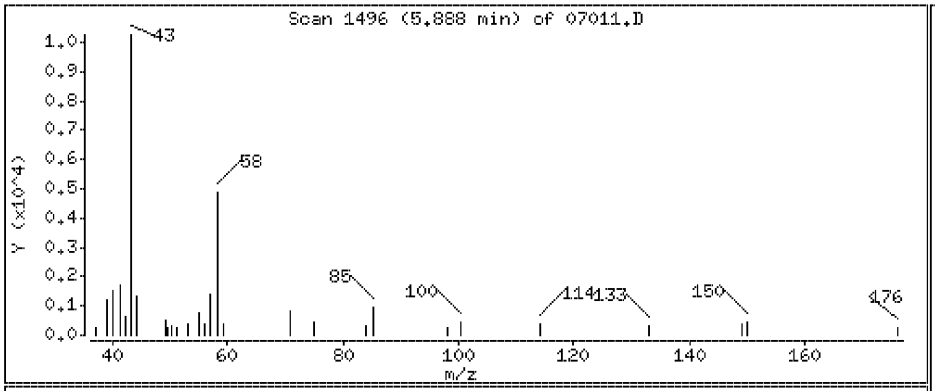
Operator: DR1

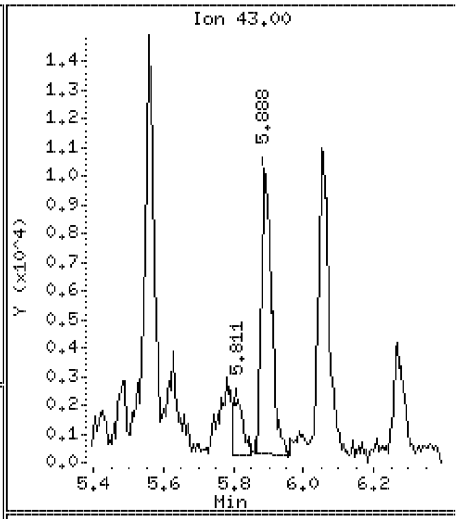
Column phase: J&W DB-5

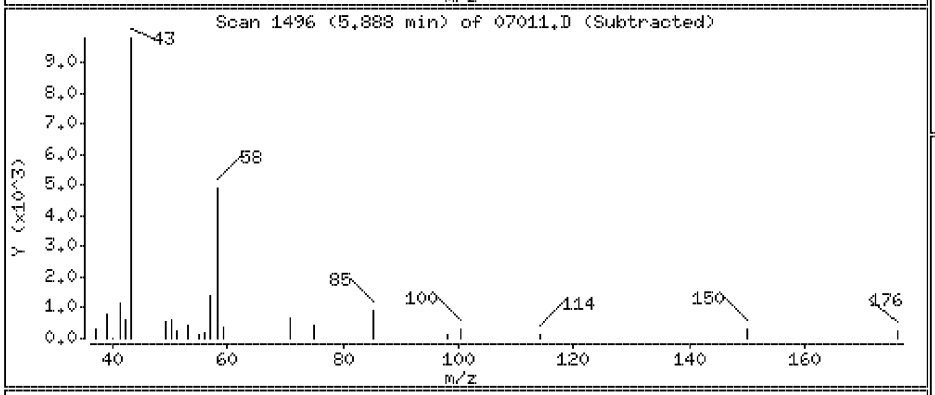
Column diameter: 0.32

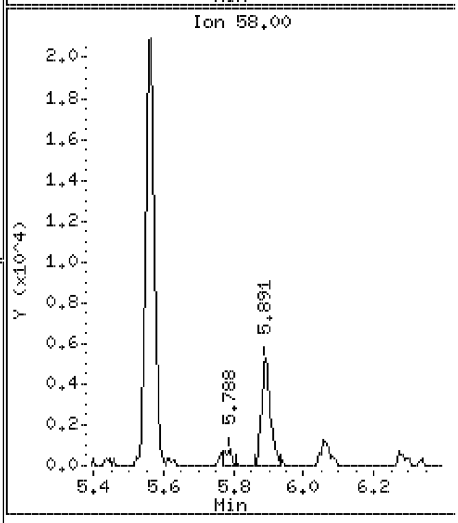
62 Methyl Butyl Ketone

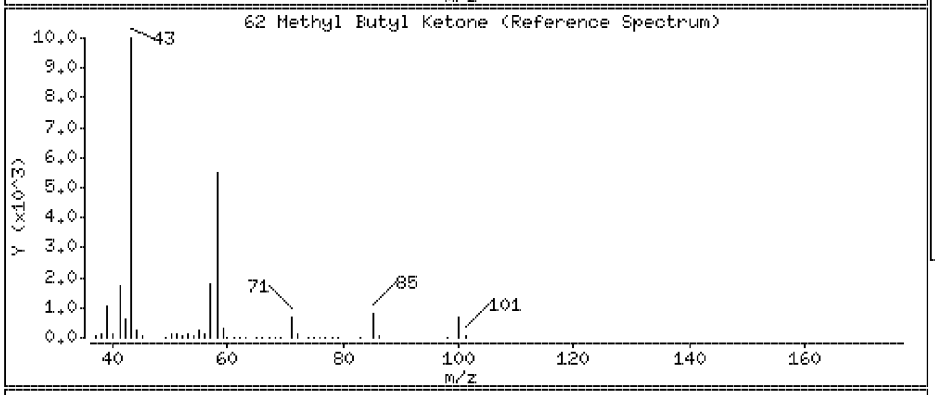
Concentration: 0.813 ppbv

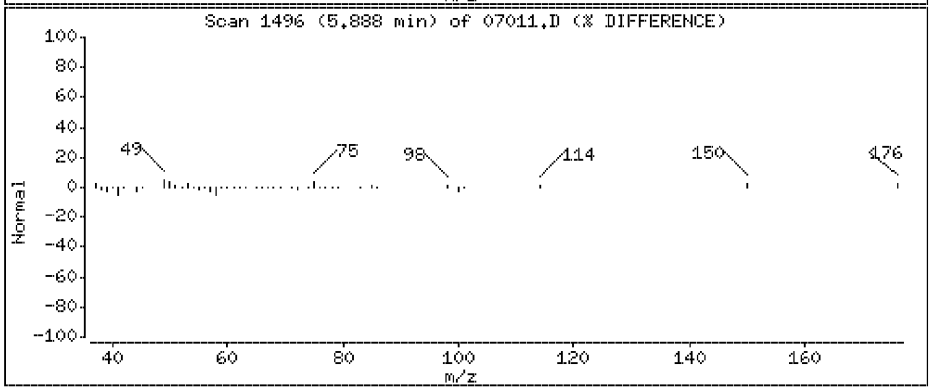












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

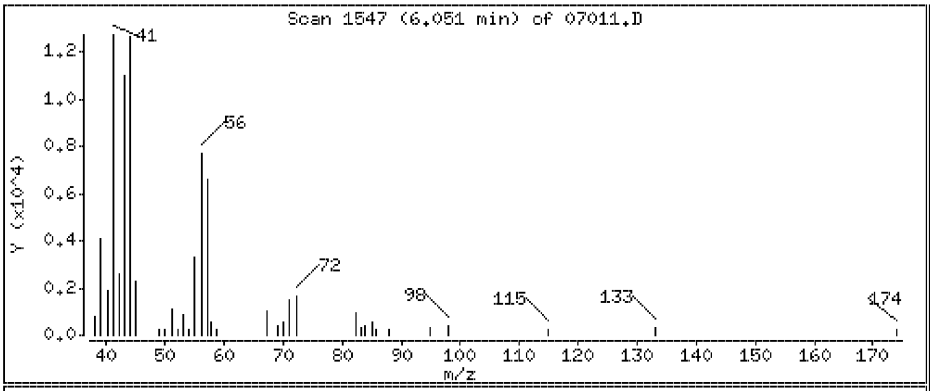
Operator: DR1

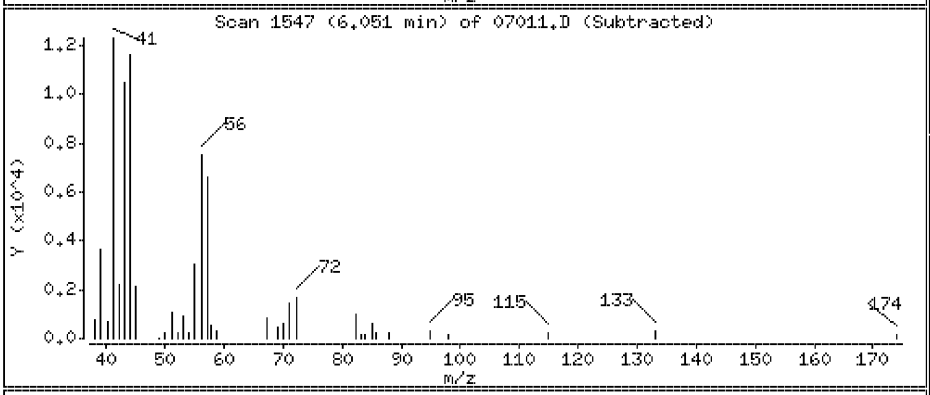
Column phase: J&W DB-5

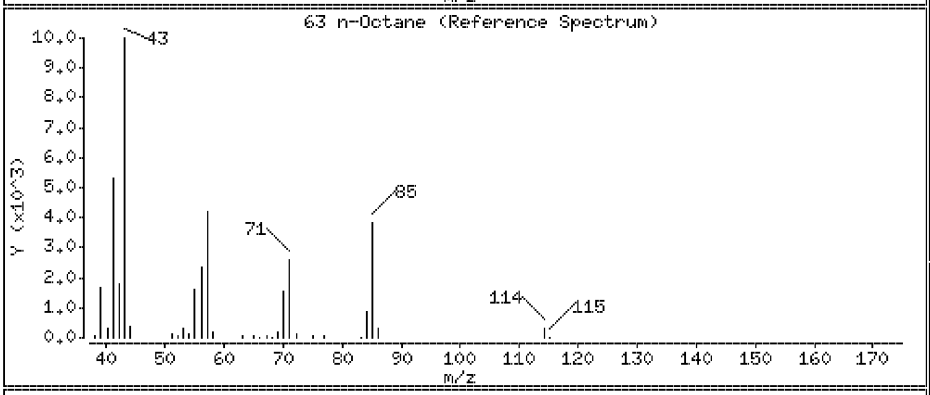
Column diameter: 0.32

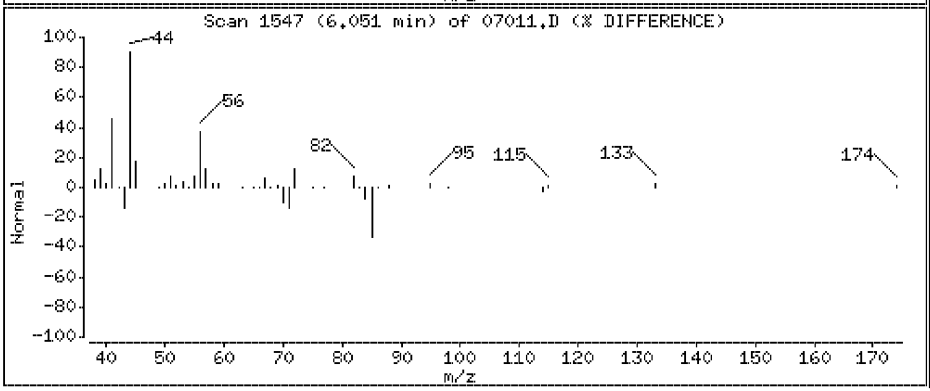
63 n-Octane

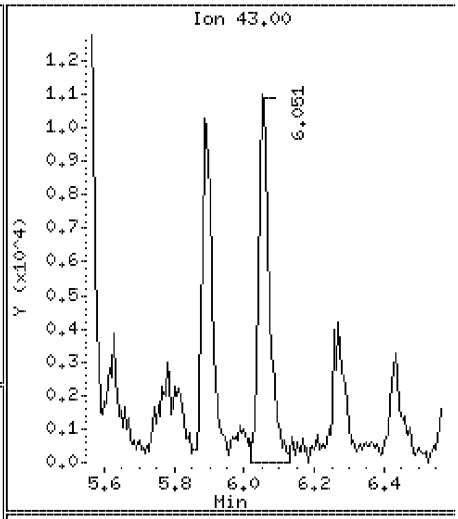
Concentration: 0.924 ppbv

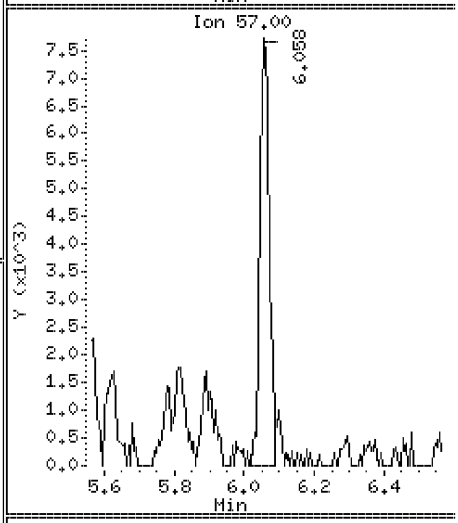


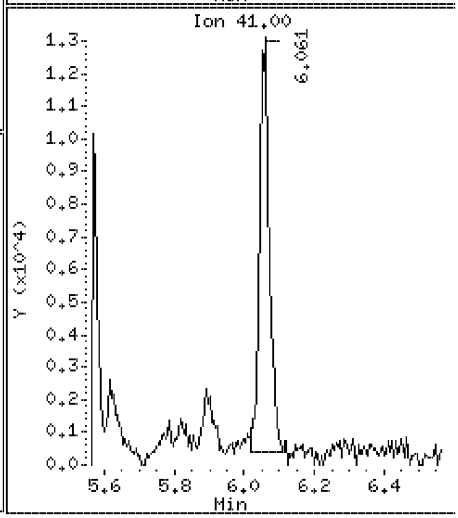












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

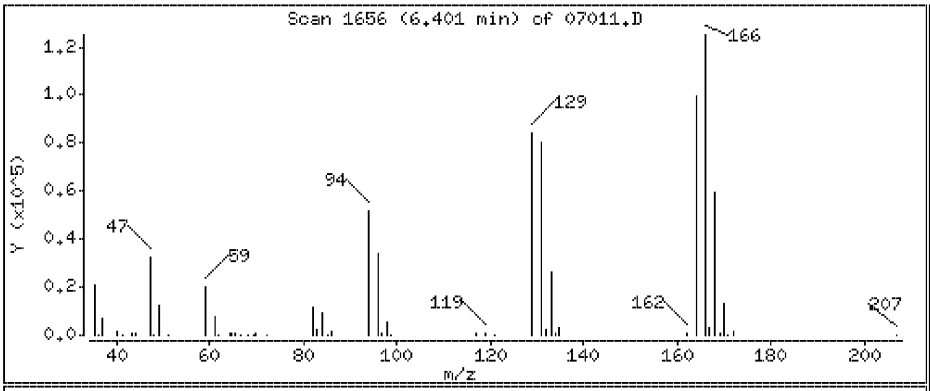
Operator: DR1

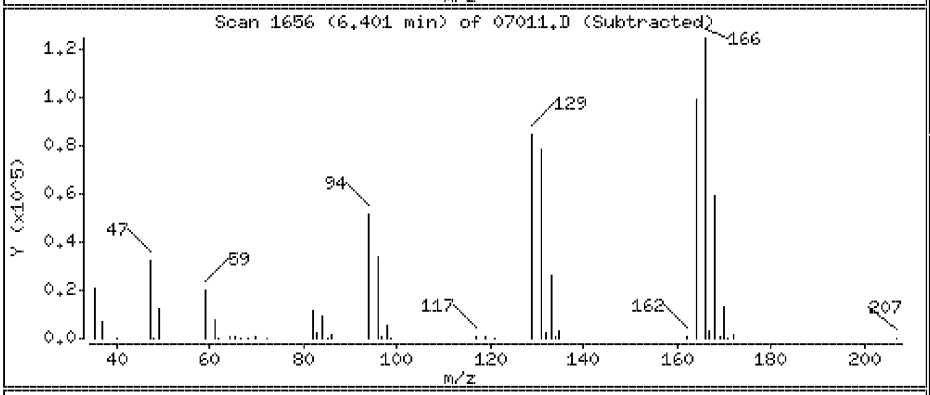
Column phase: J&W DB-5

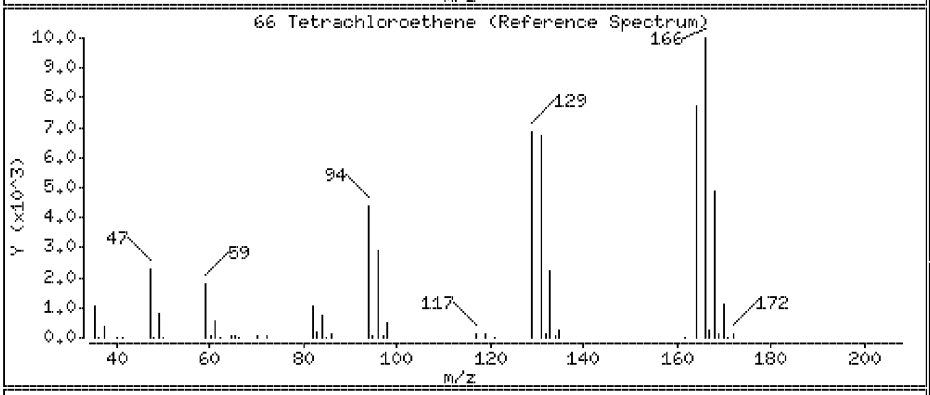
Column diameter: 0.32

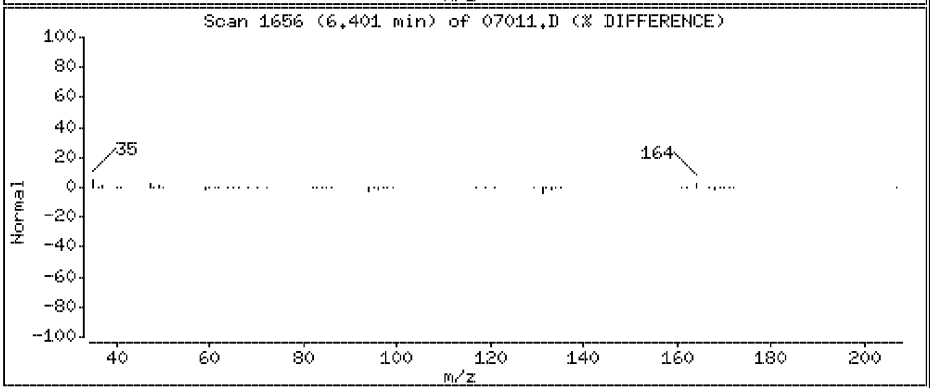
66 Tetrachloroethene

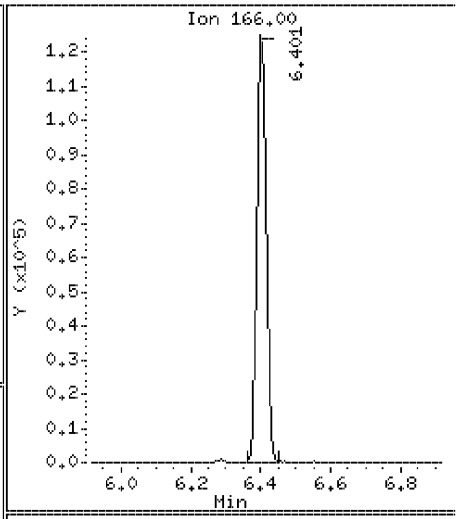
Concentration: 9.90 ppbv

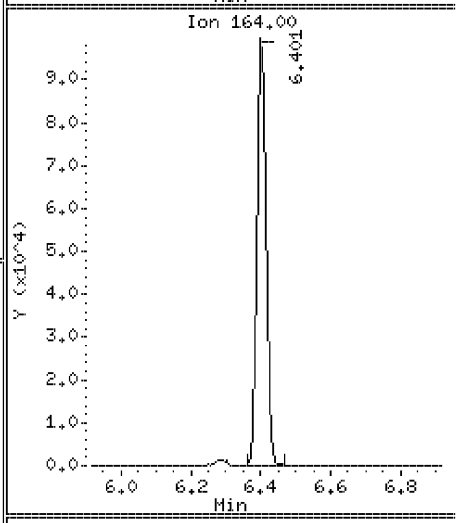


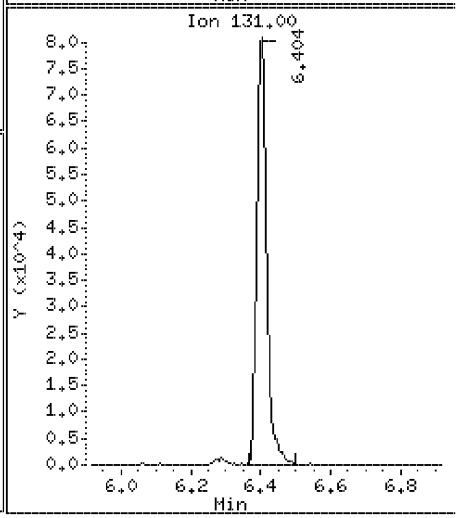












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

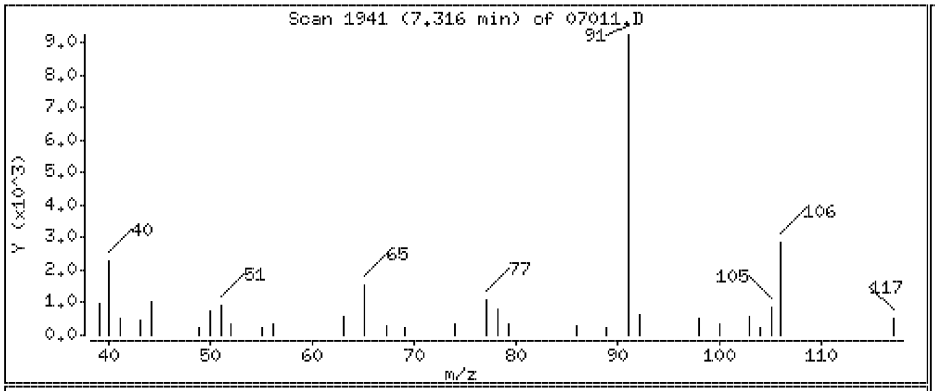
Operator: DR1

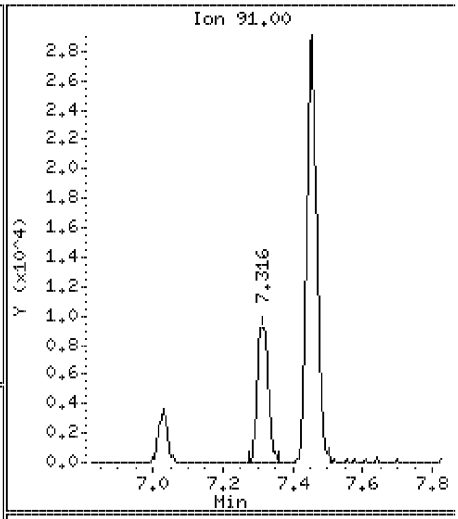
Column phase: J&W DB-5

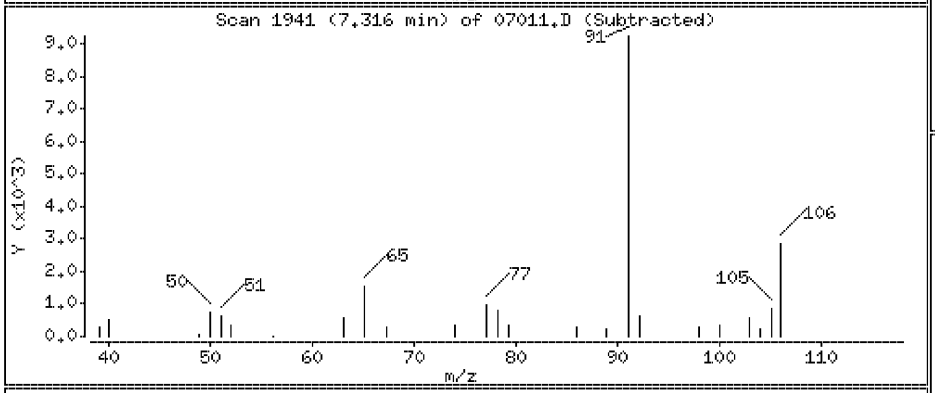
Column diameter: 0.32

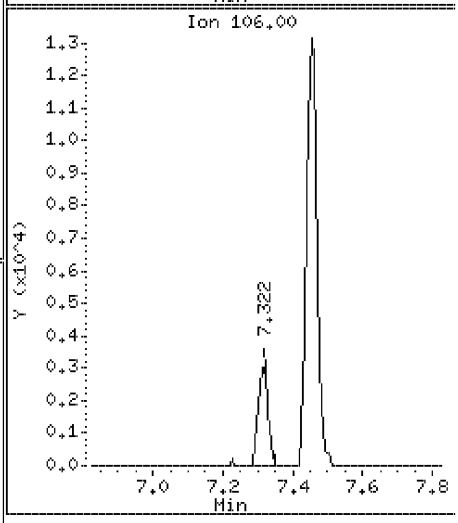
69 Ethyl Benzene

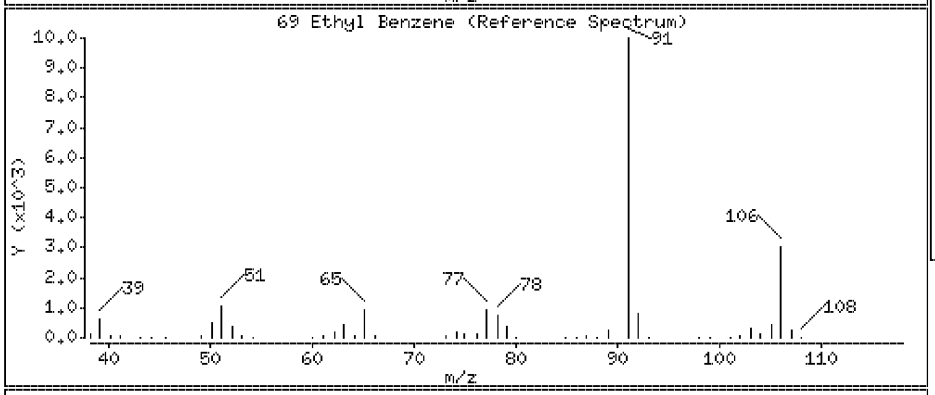
Concentration: 0.444 ppbv

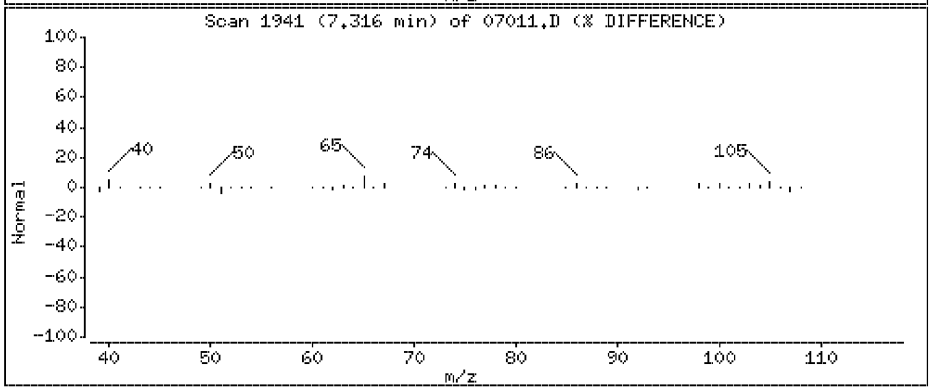












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

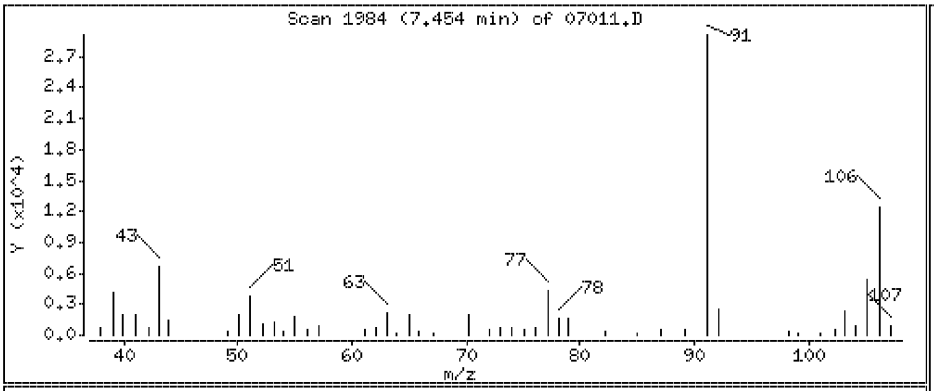
Operator: DR1

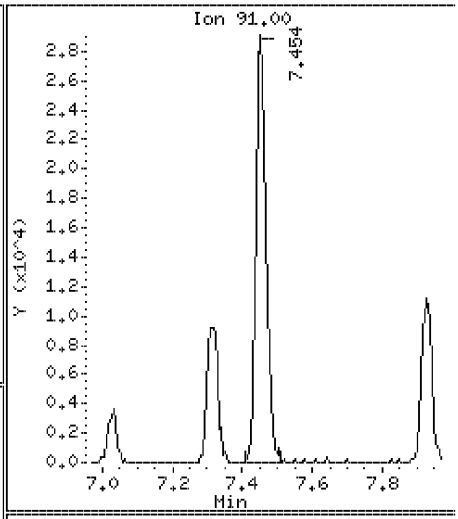
Column phase: J&W DB-5

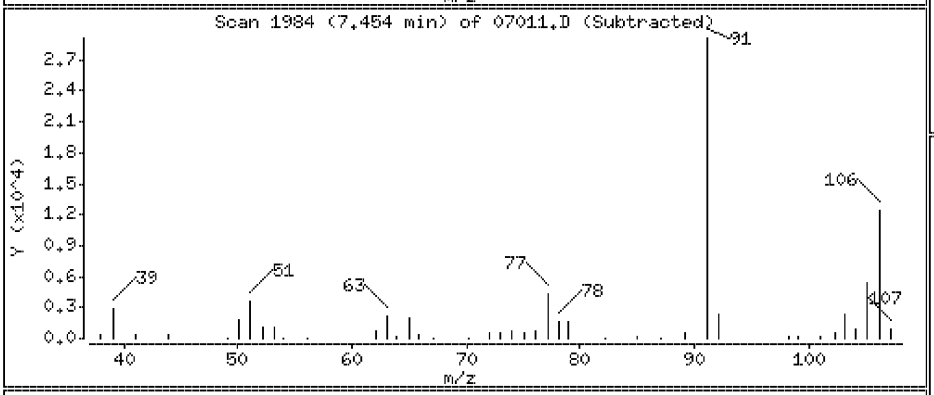
Column diameter: 0.32

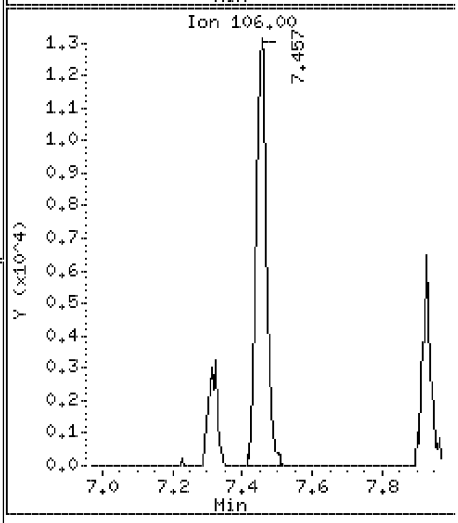
70 m&p-Xylene

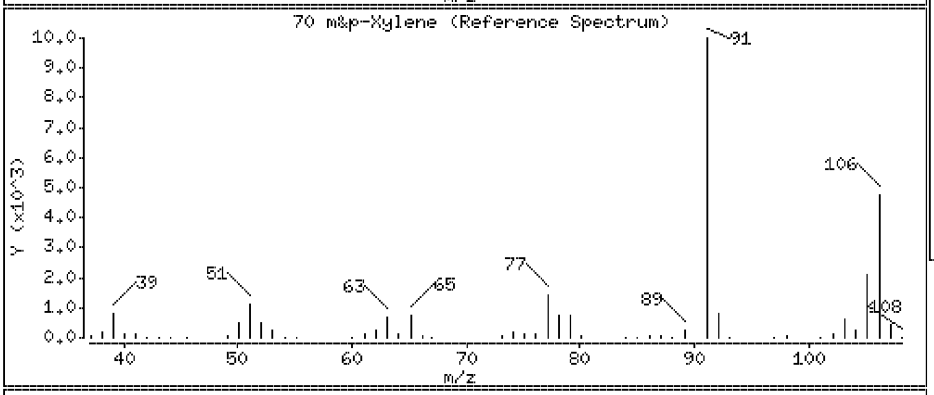
Concentration: 1.34 ppbv

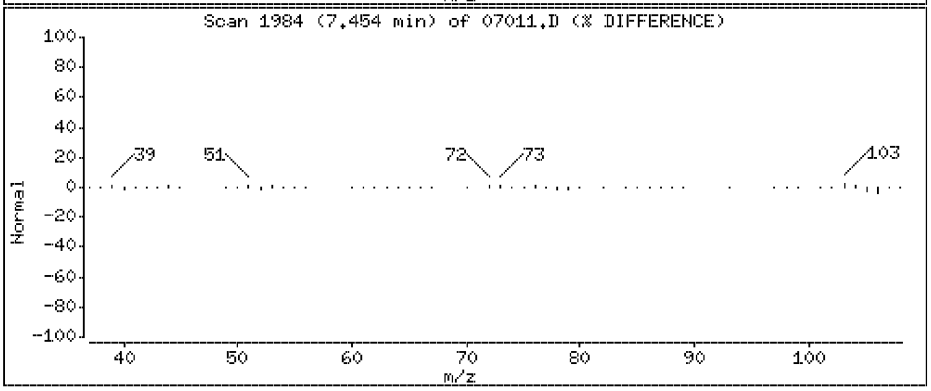












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

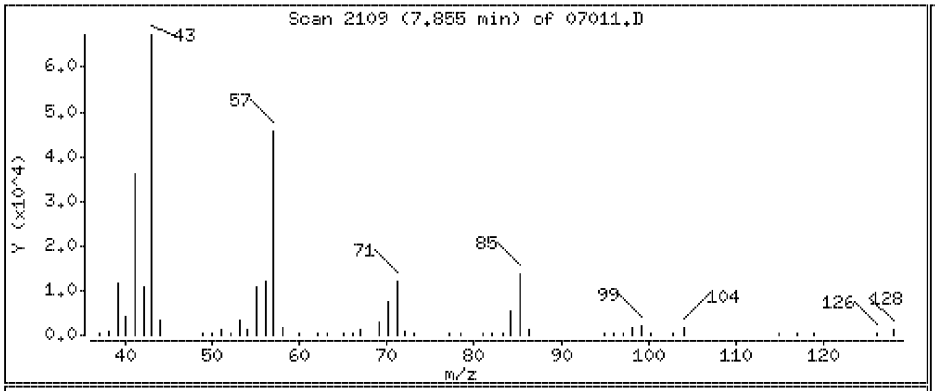
Operator: DR1

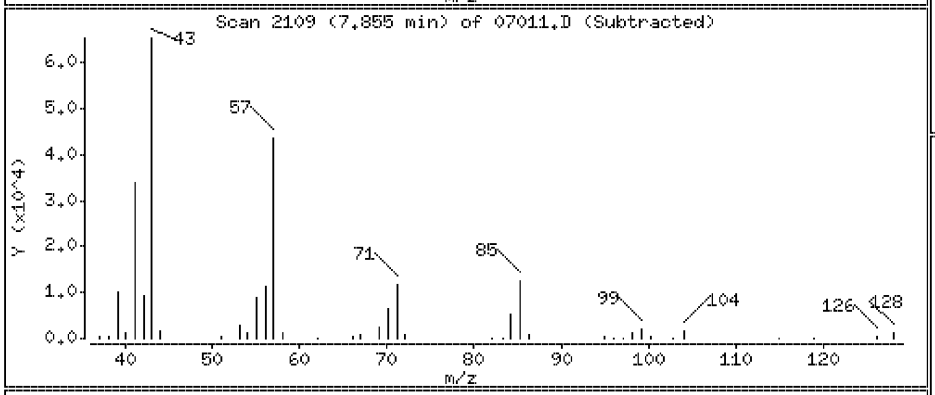
Column phase: J&W DB-5

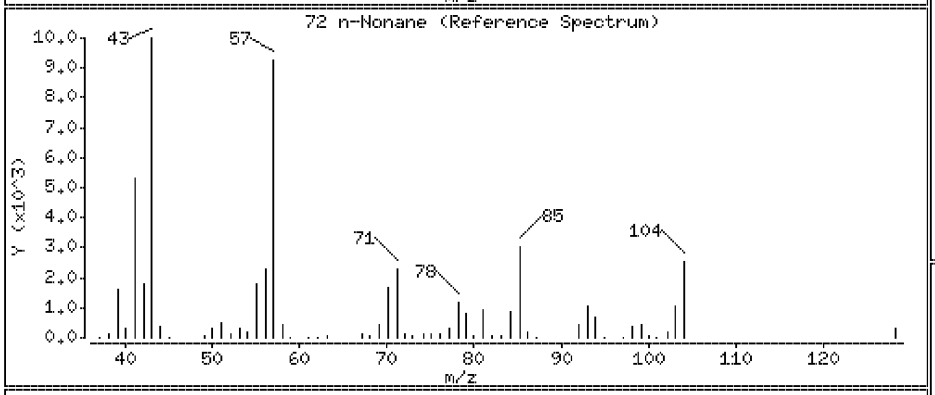
Column diameter: 0.32

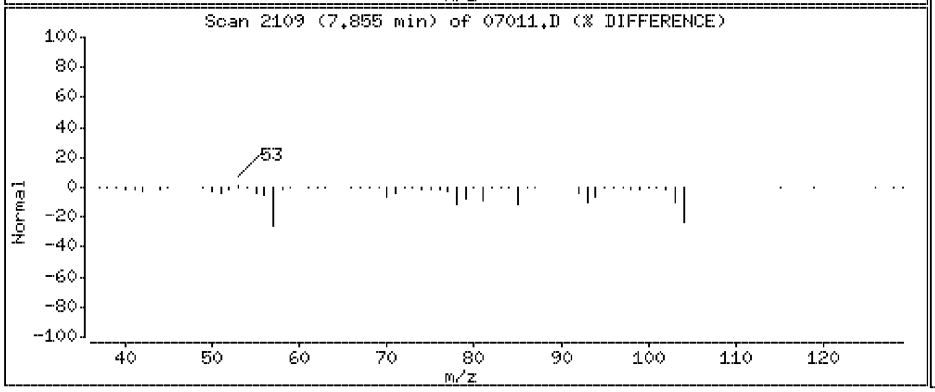
72 n-Nonane

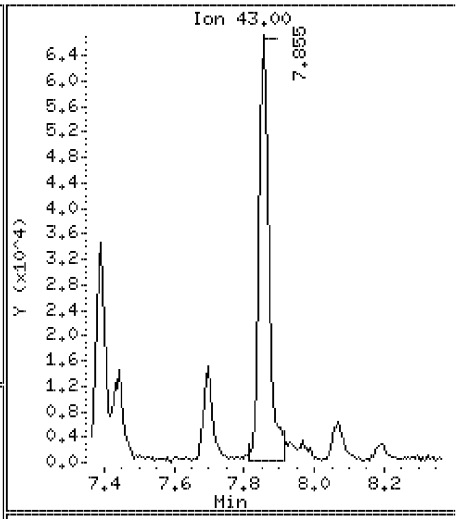
Concentration: 5.45 ppbv

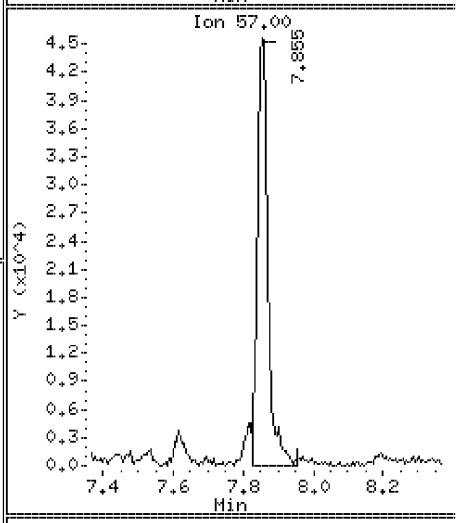


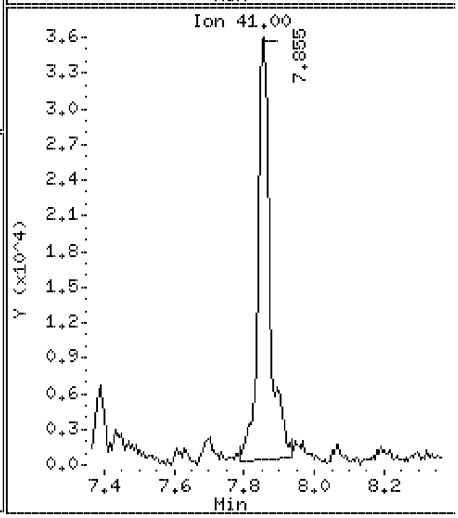












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

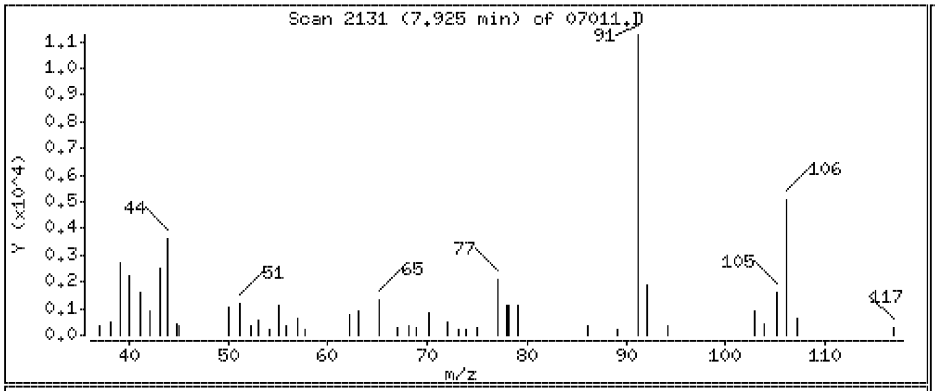
Operator: DR1

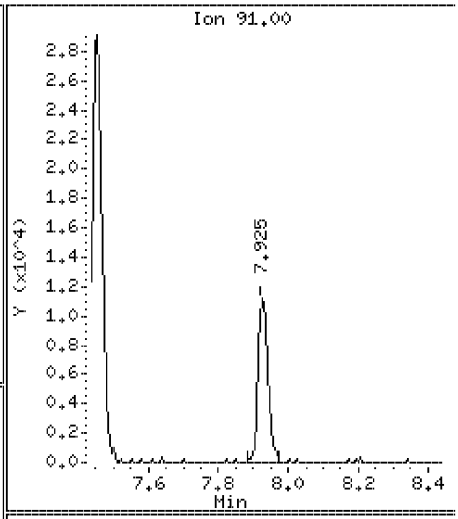
Column phase: J&W DB-5

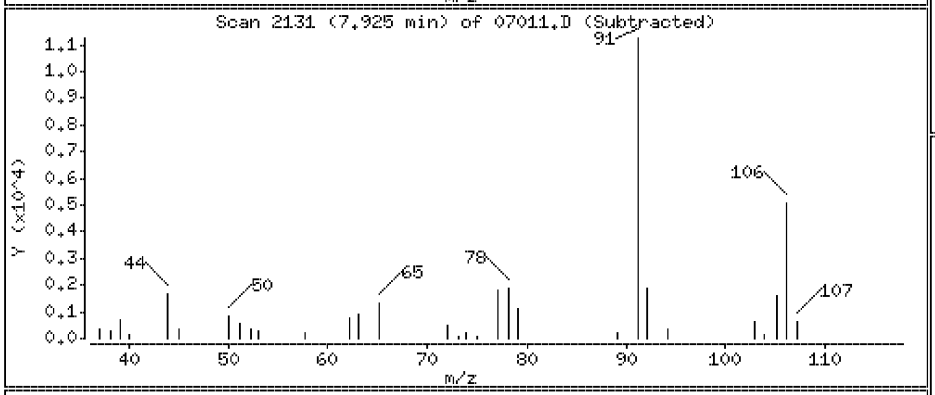
Column diameter: 0.32

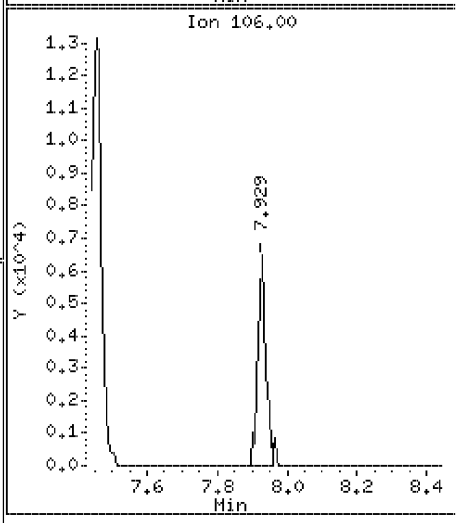
74 o-Xylene

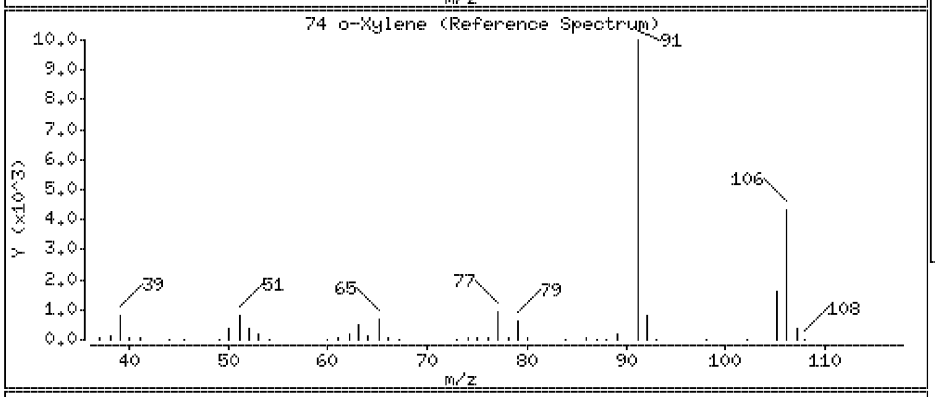
Concentration: 0.611 ppbv

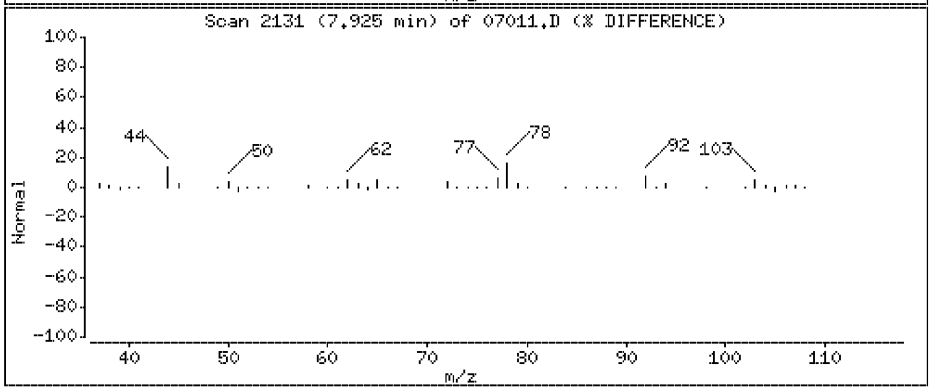












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

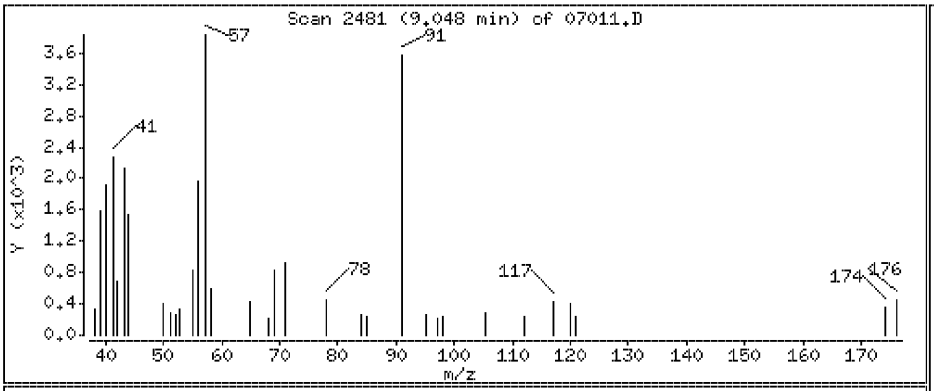
Operator: DR1

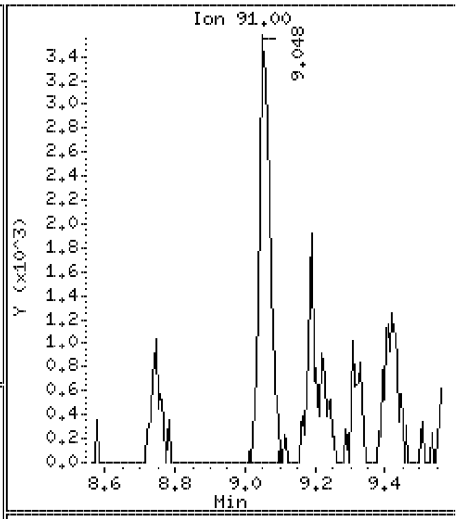
Column phase: J&W DB-5

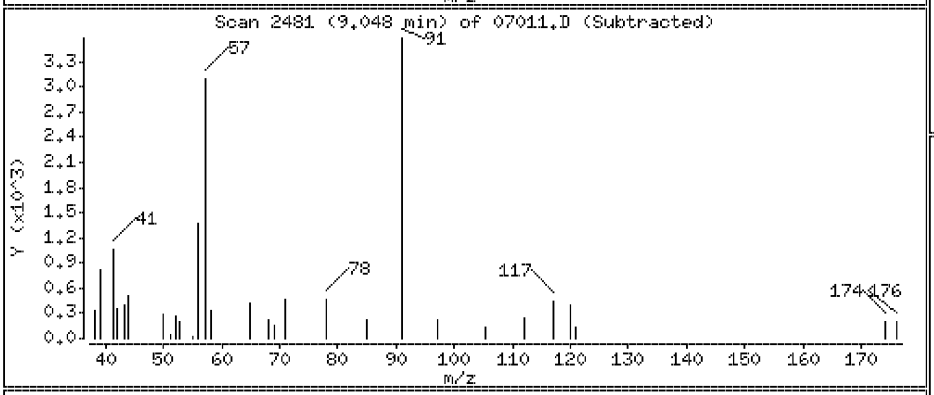
Column diameter: 0.32

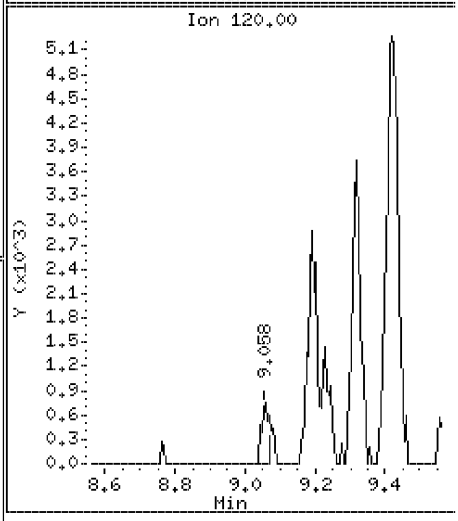
77 N-Propylbenzene

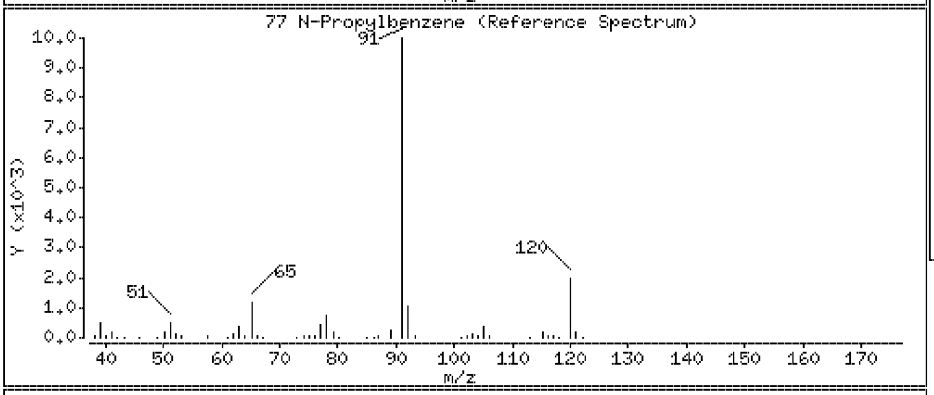
Concentration: 0.155 ppbv

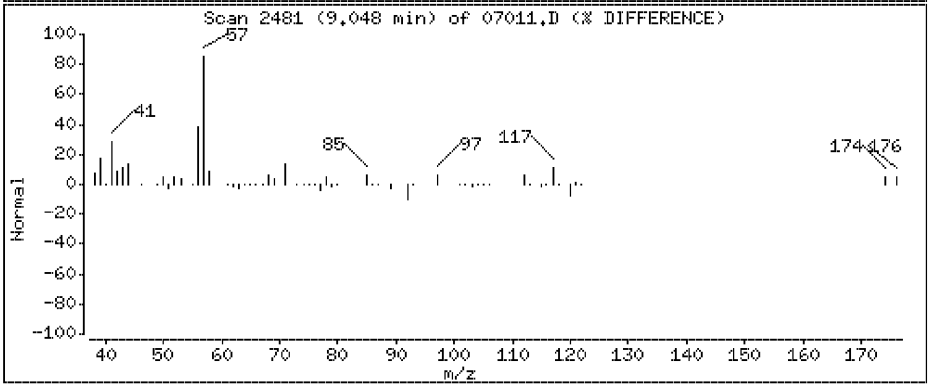












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

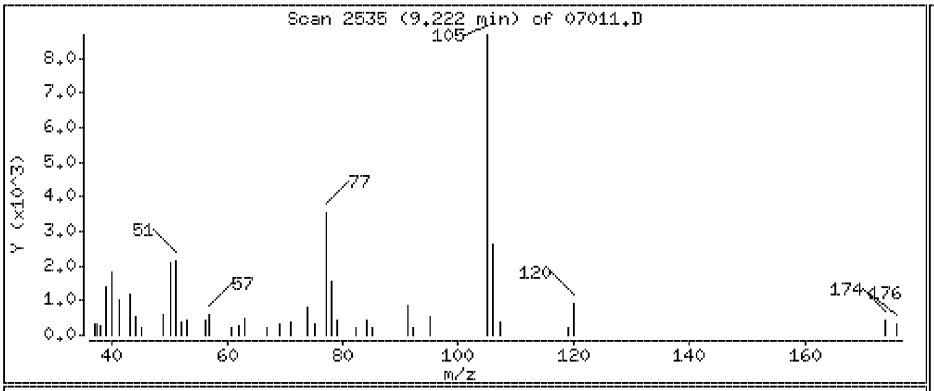
Operator: DR1

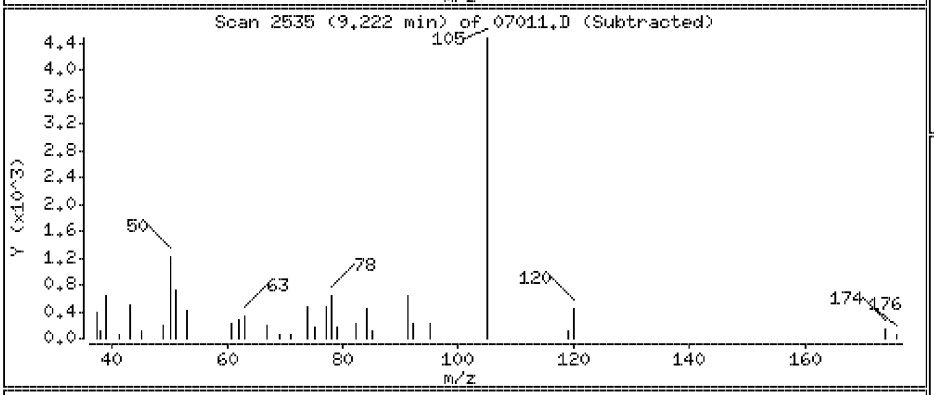
Column phase: J&W DB-5

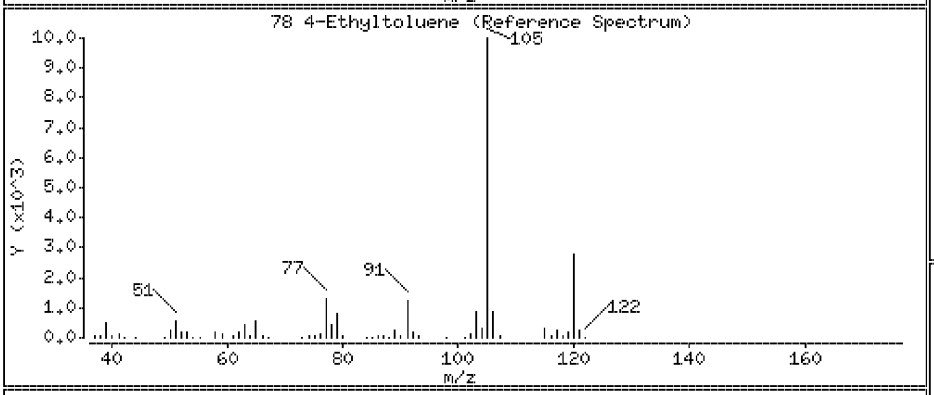
Column diameter: 0.32

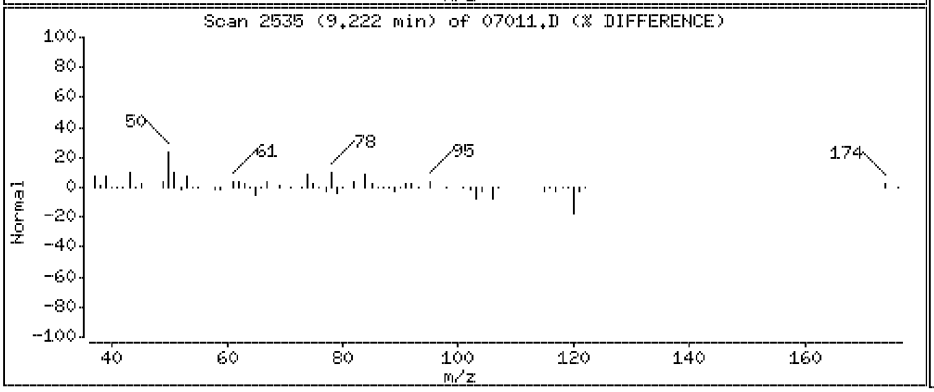
78 4-Ethyltoluene

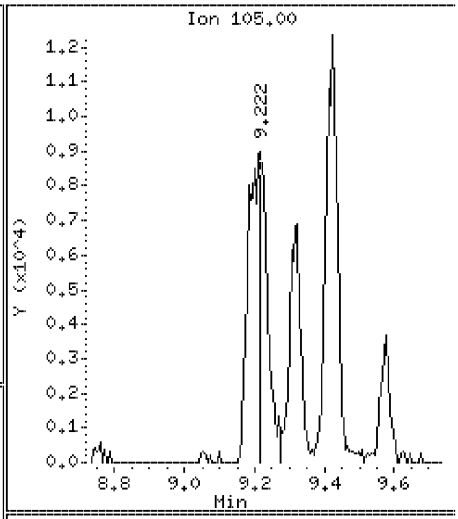
Concentration: 0.392 ppbv

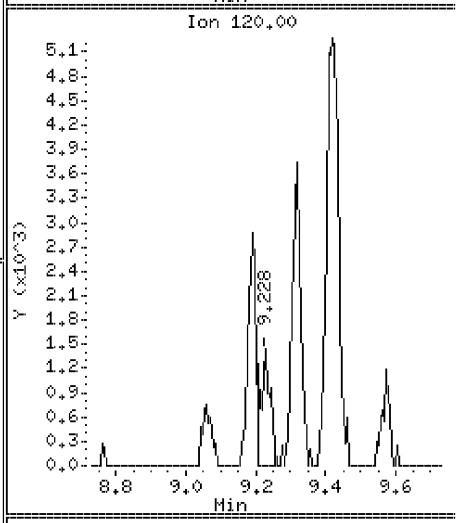


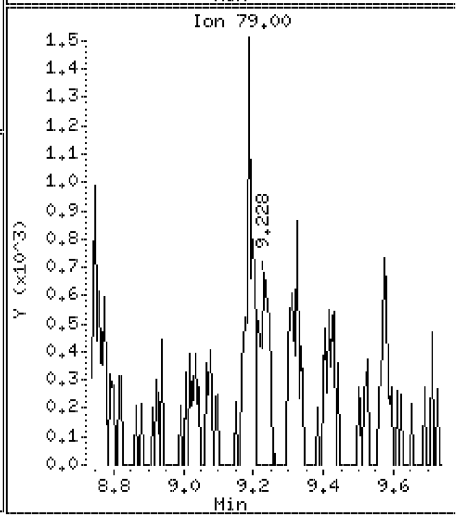












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

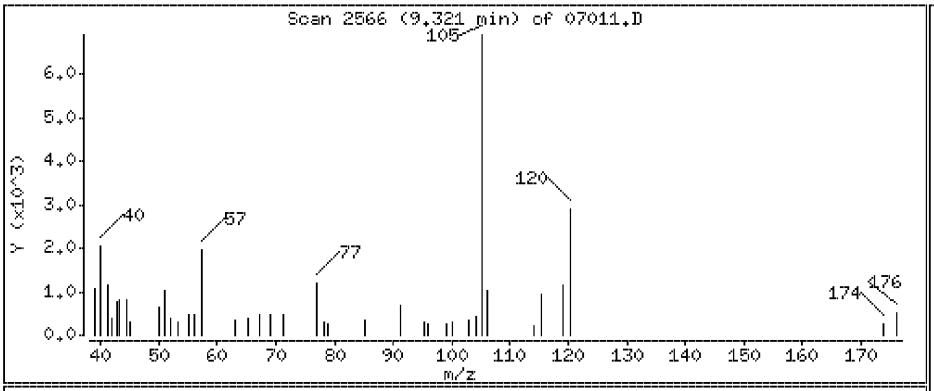
Operator: DR1

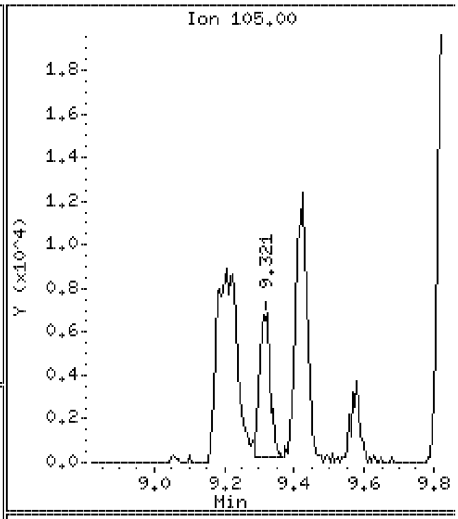
Column phase: J&W DB-5

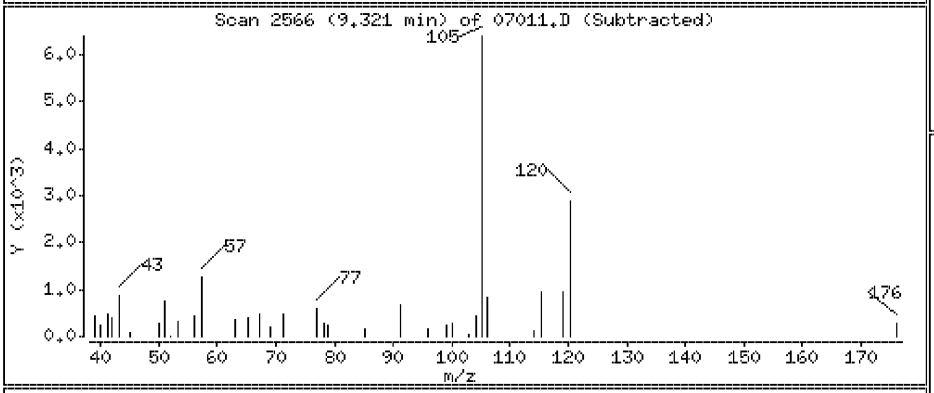
Column diameter: 0.32

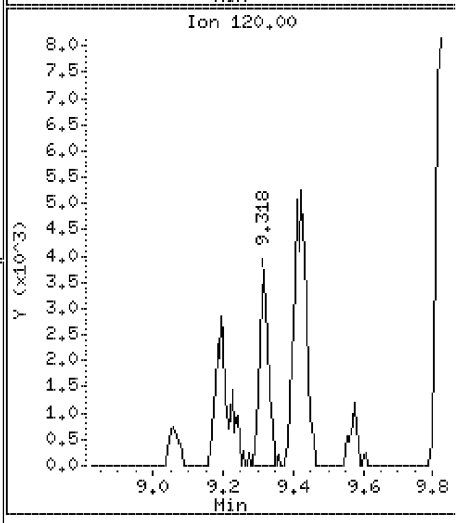
79 1,3,5-Trimethylbenzene

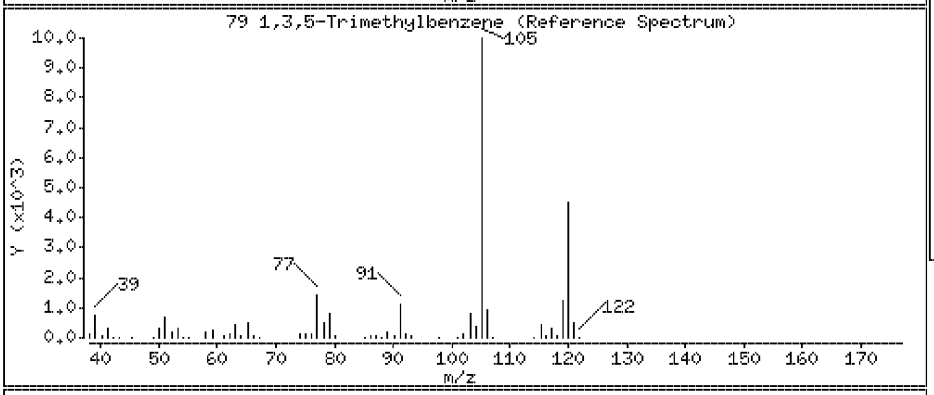
Concentration: 0.280 ppbv

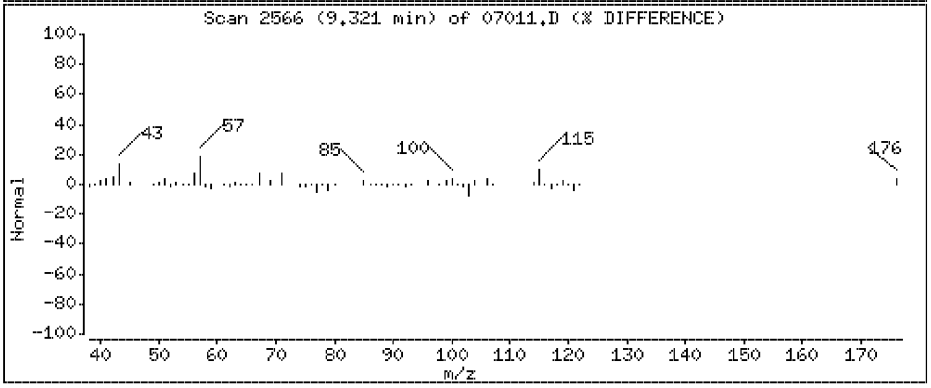












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

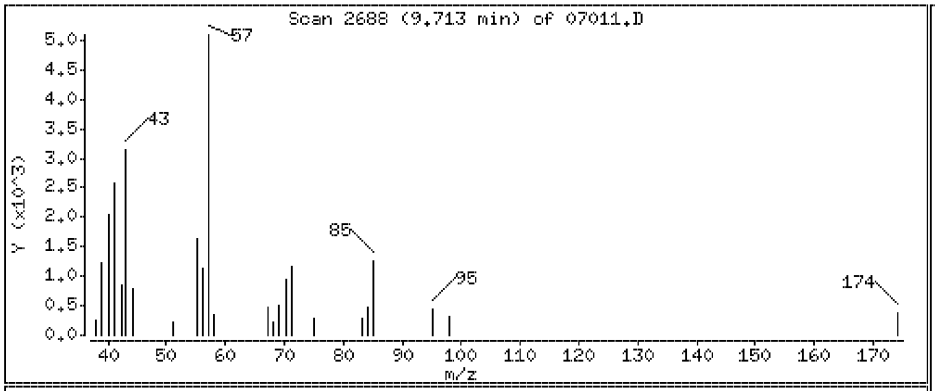
Operator: DR1

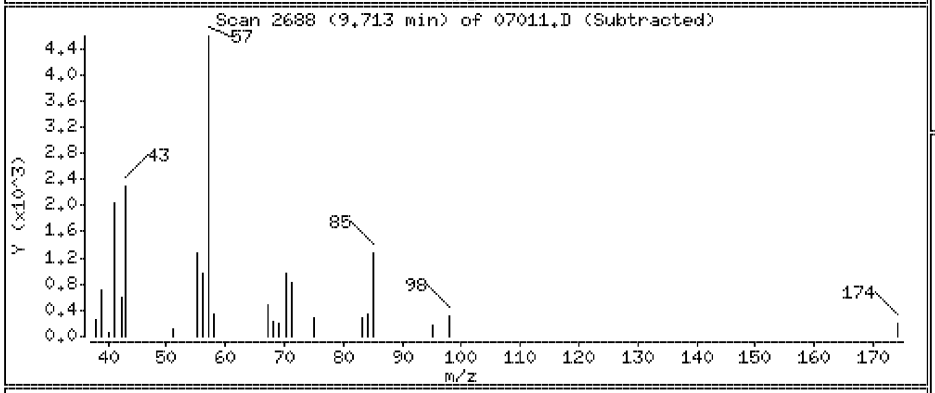
Column phase: J&W DB-5

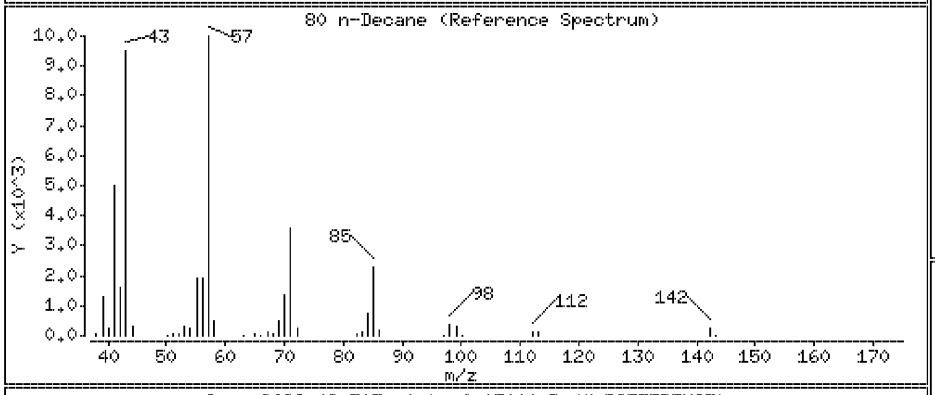
Column diameter: 0.32

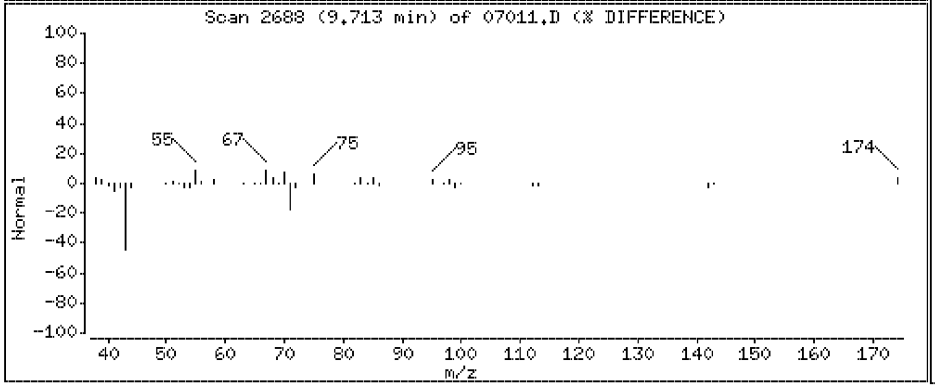
80 n-Decane

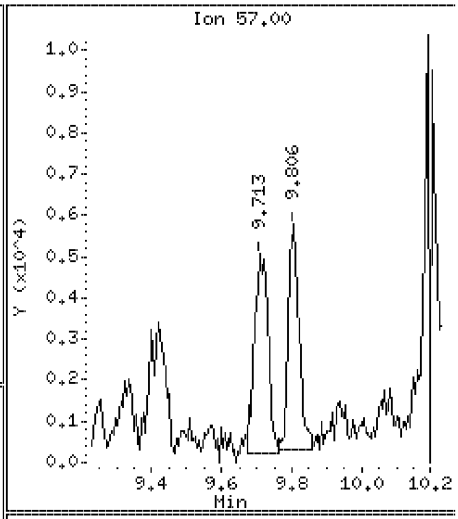
Concentration: 0.619 ppbv

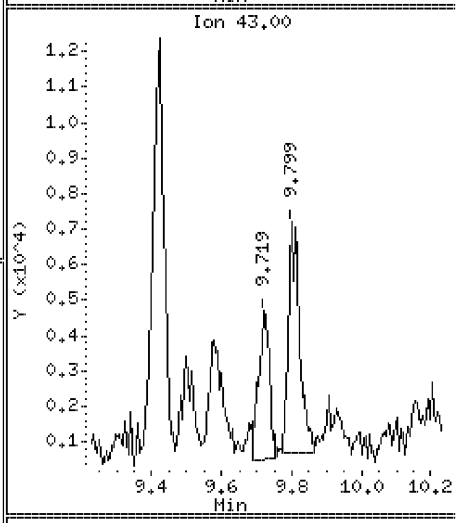


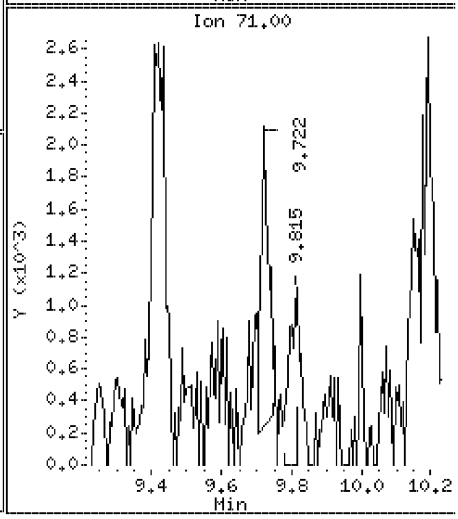












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

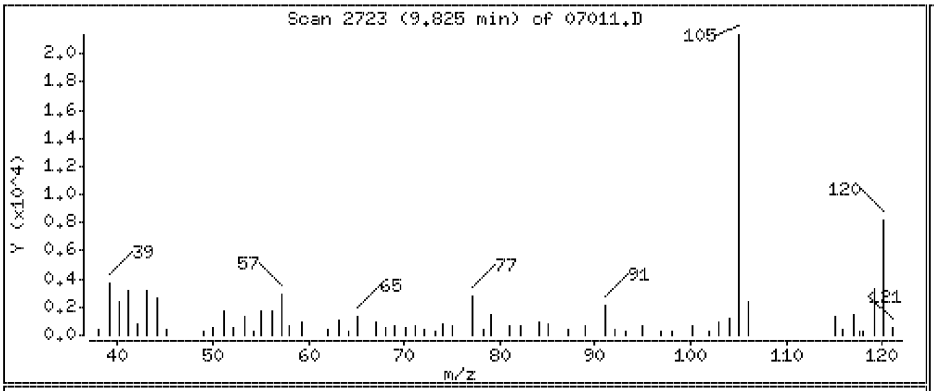
Operator: DR1

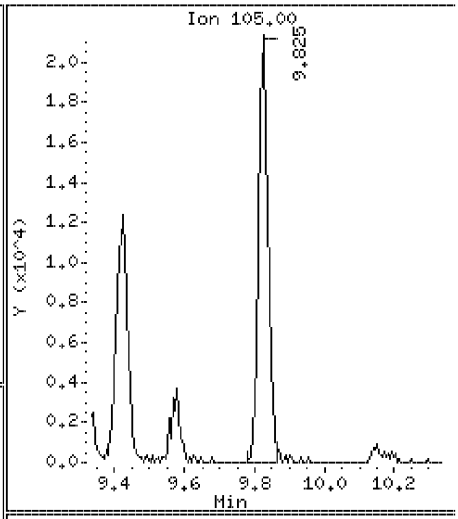
Column phase: J&W DB-5

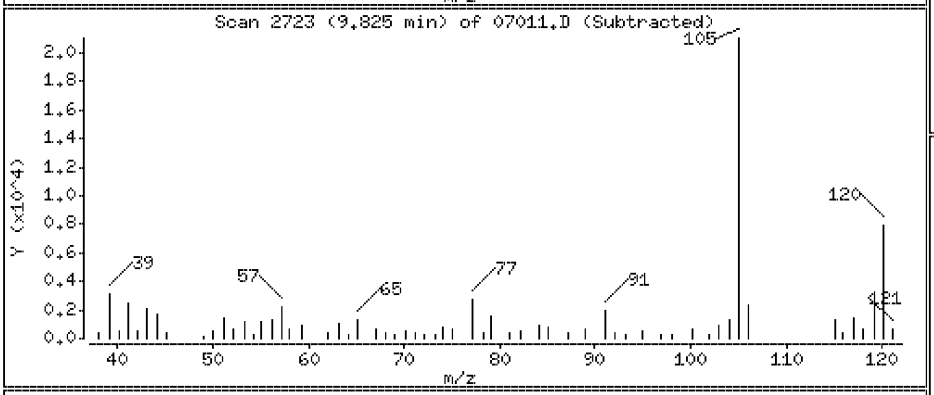
Column diameter: 0.32

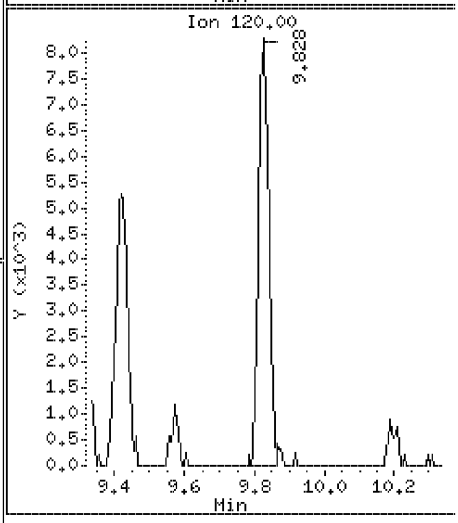
82 1,2,4-Trimethylbenzene

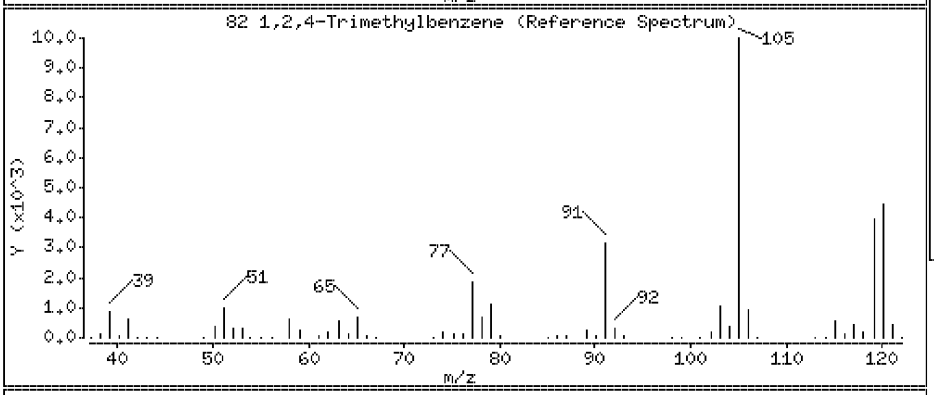
Concentration: 0.854 ppbv

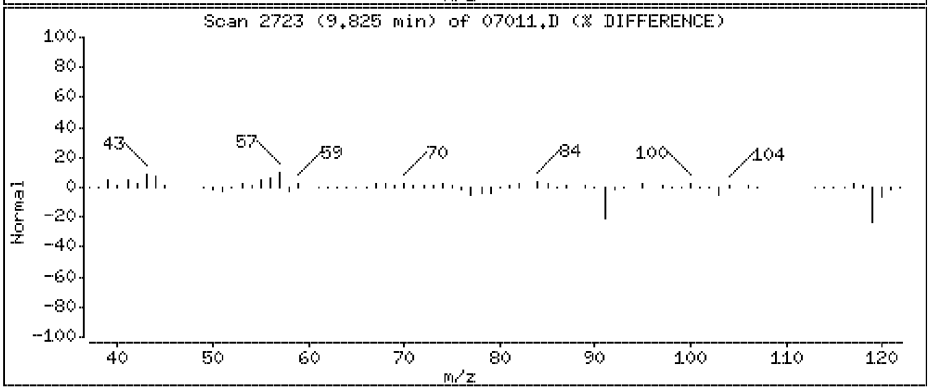












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

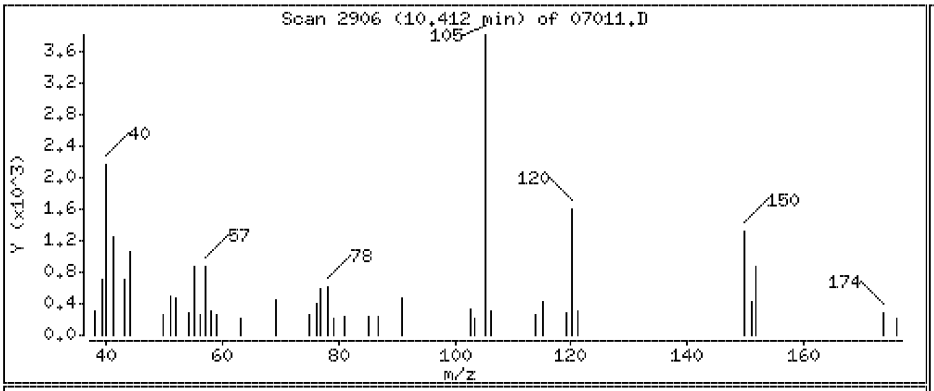
Operator: DR1

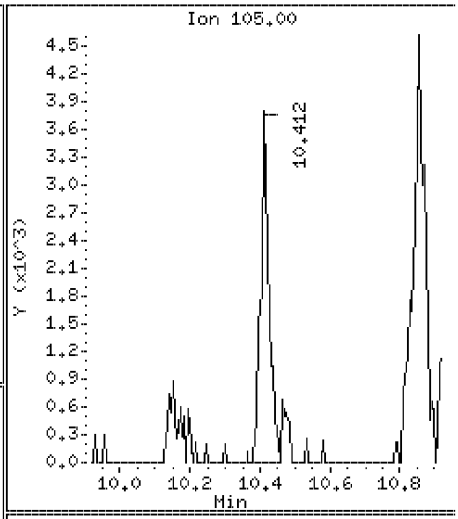
Column phase: J&W DB-5

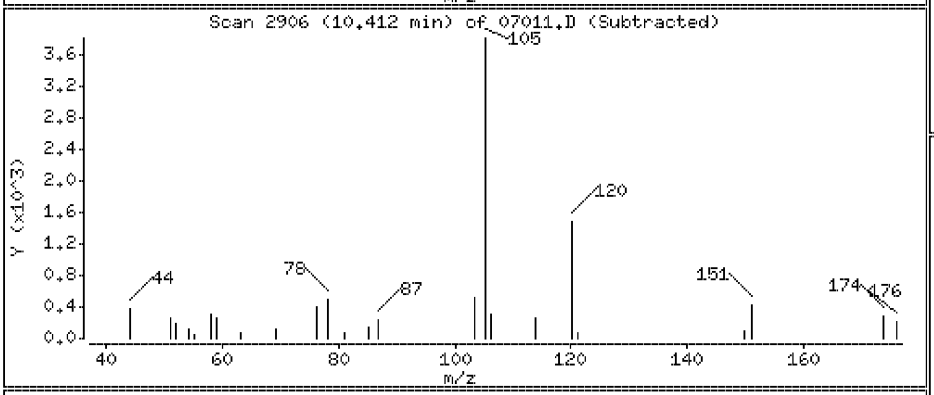
Column diameter: 0.32

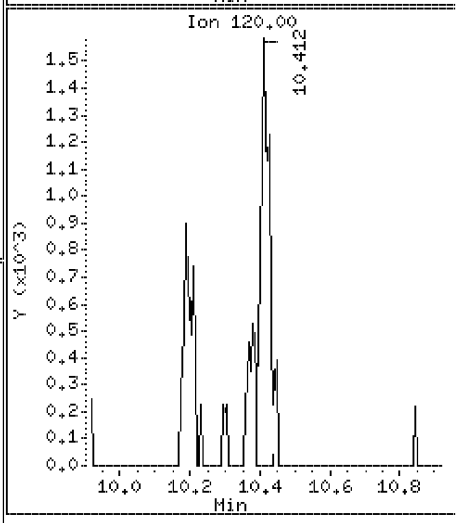
89 1,2,3-Trimethylbenzene

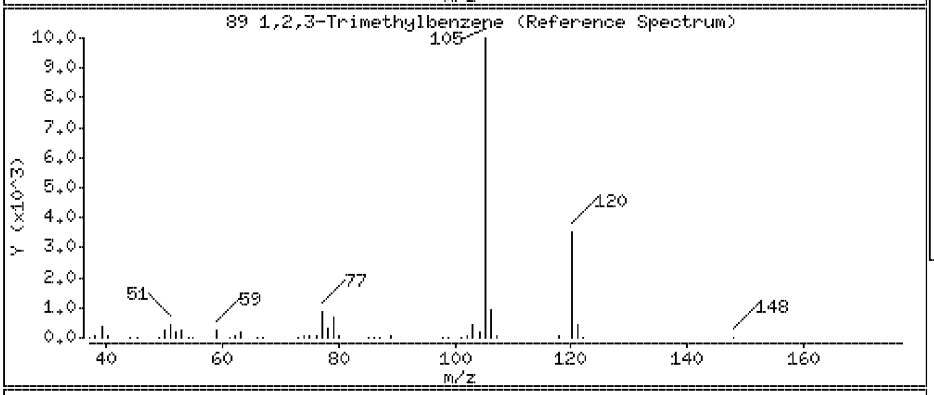
Concentration: 0.183 ppbv

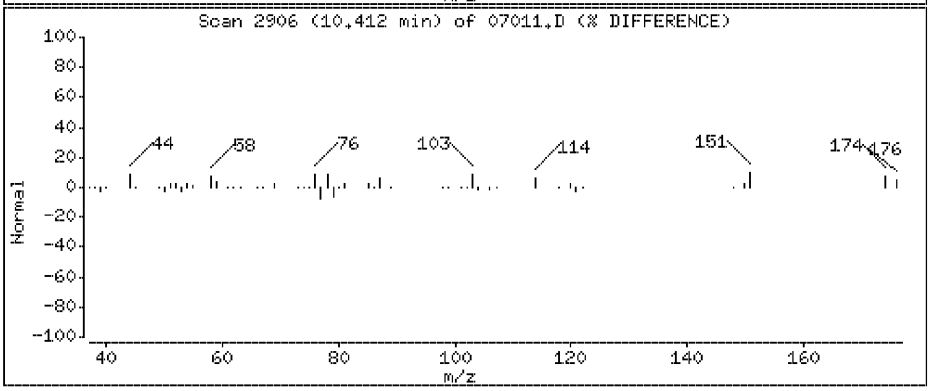












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07011.D

Date : 11-MAR-2017 16:24

Client ID:

Instrument: 10airD.i

Sample Info:

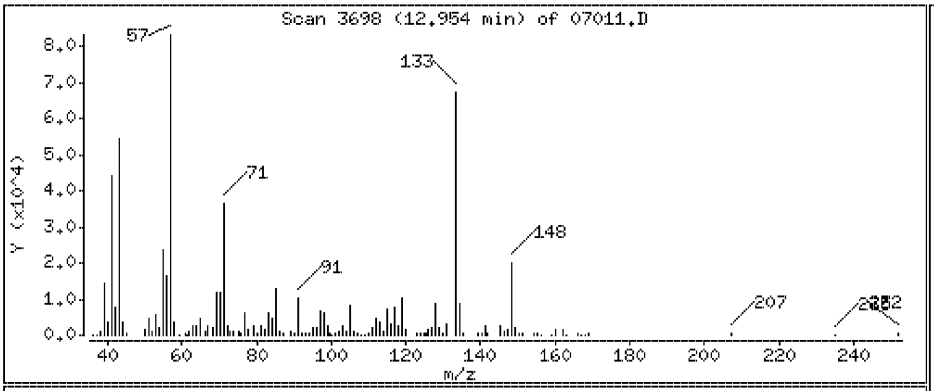
Operator: DR1

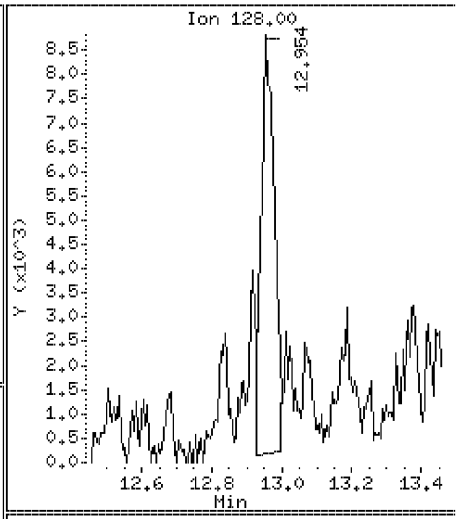
Column phase: J&W DB-5

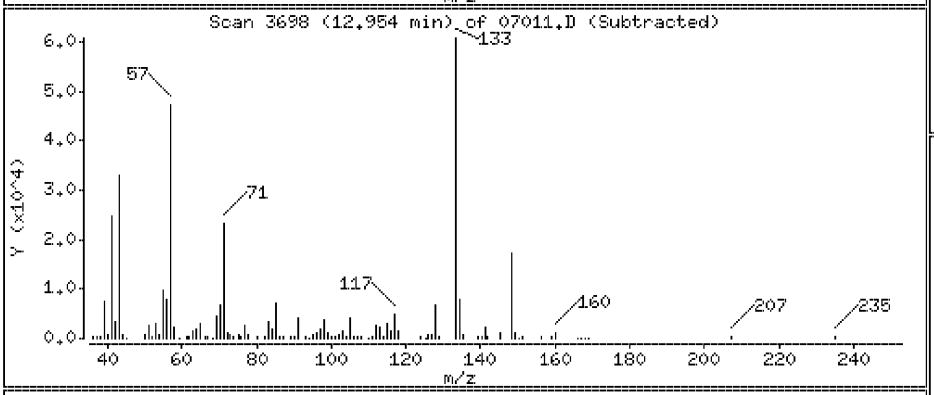
Column diameter: 0.32

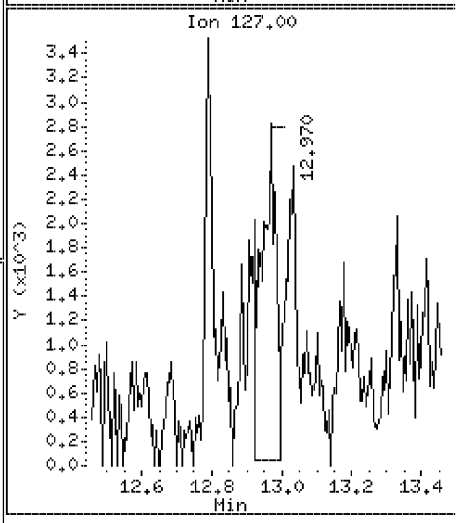
94 Naphthalene

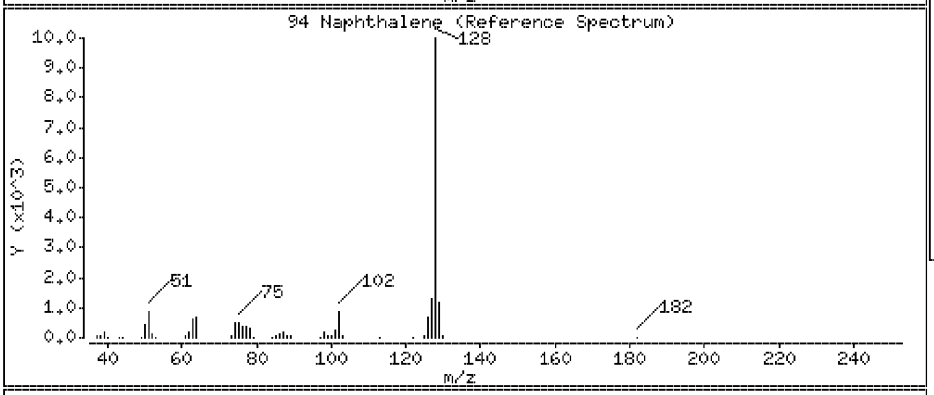
Concentration: 2.04 ppbv

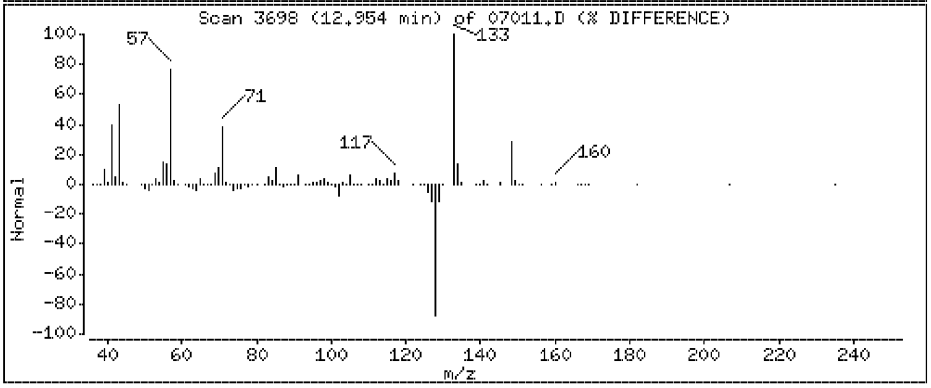






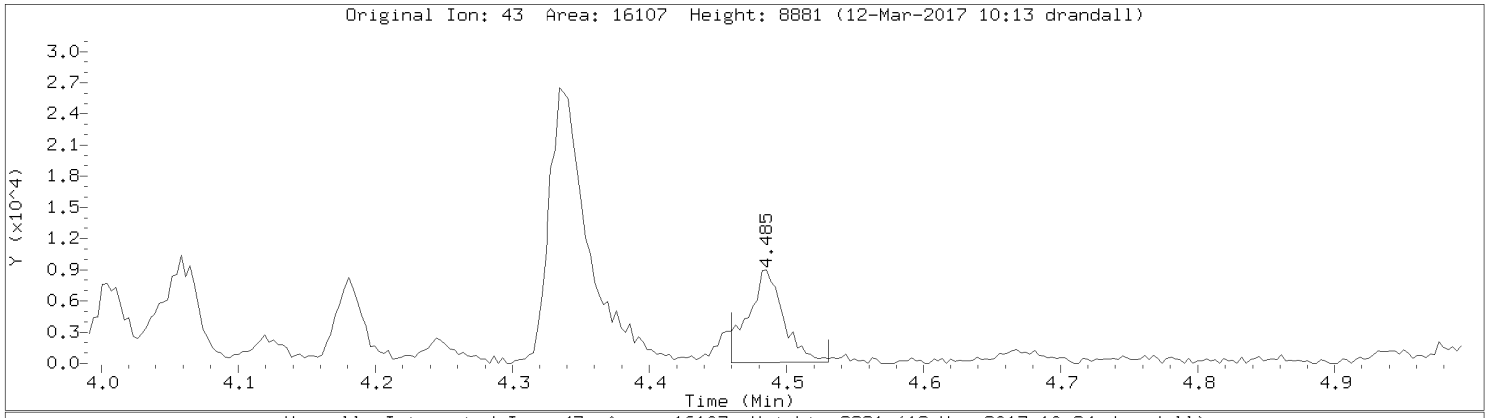


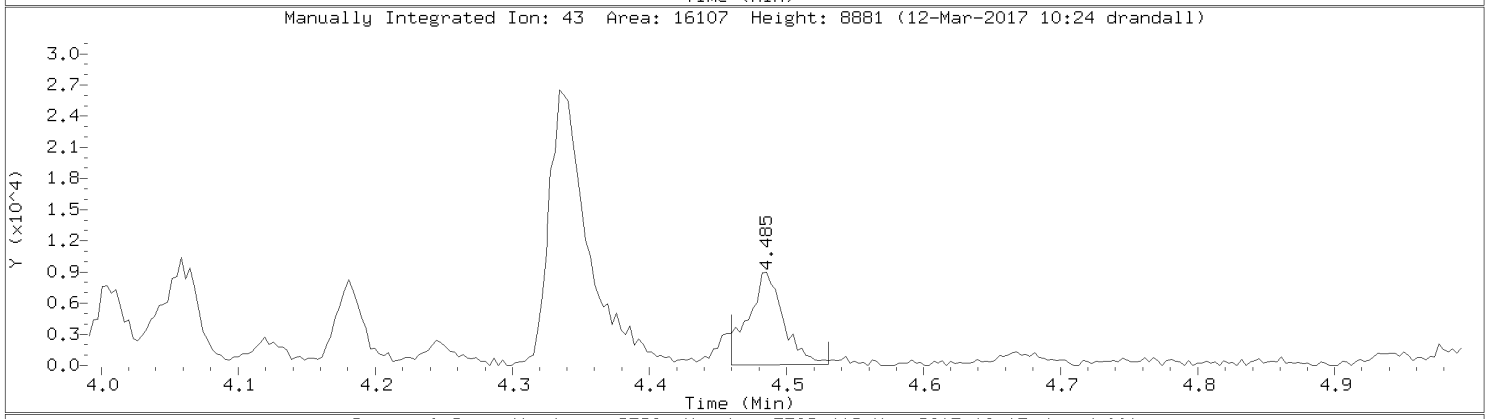


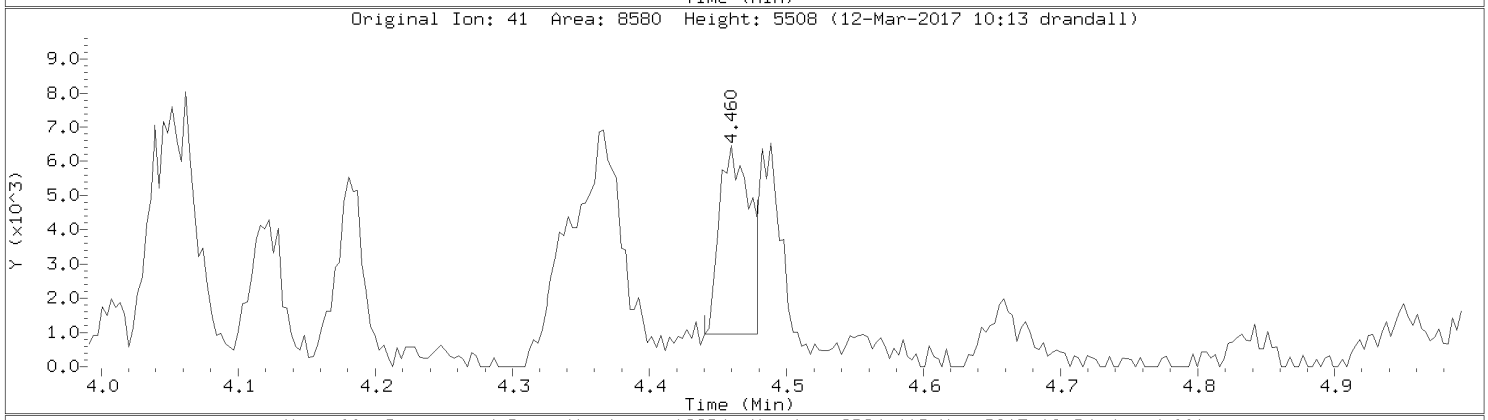


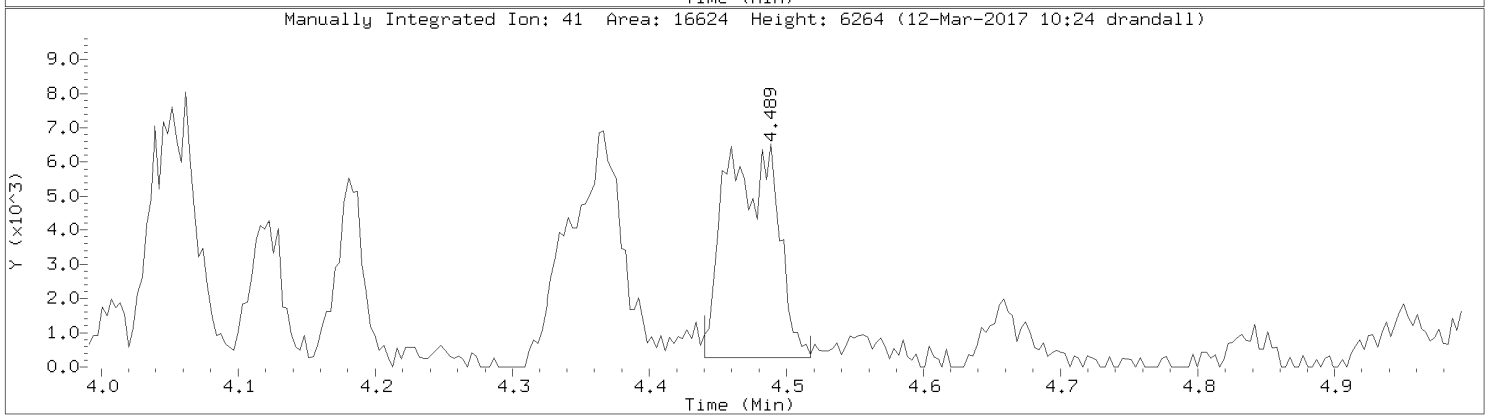
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07011.d
Injection Date: 11-MAR-2017 16:24
Instrument: 10airD.i
Lab Sample ID: 10380372010

Compound: Heptane
CAS Number: 142-82-5



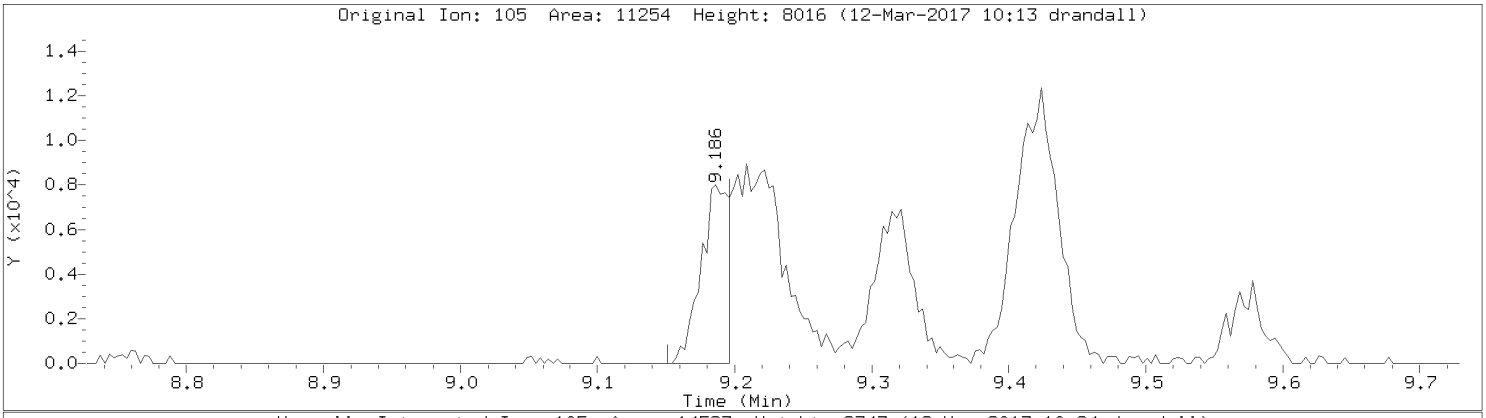


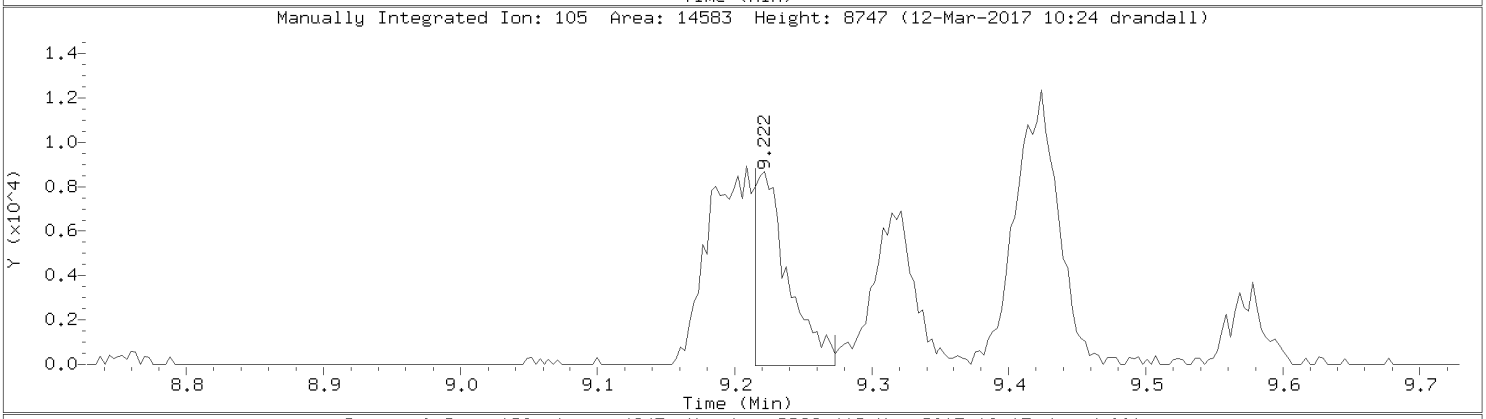


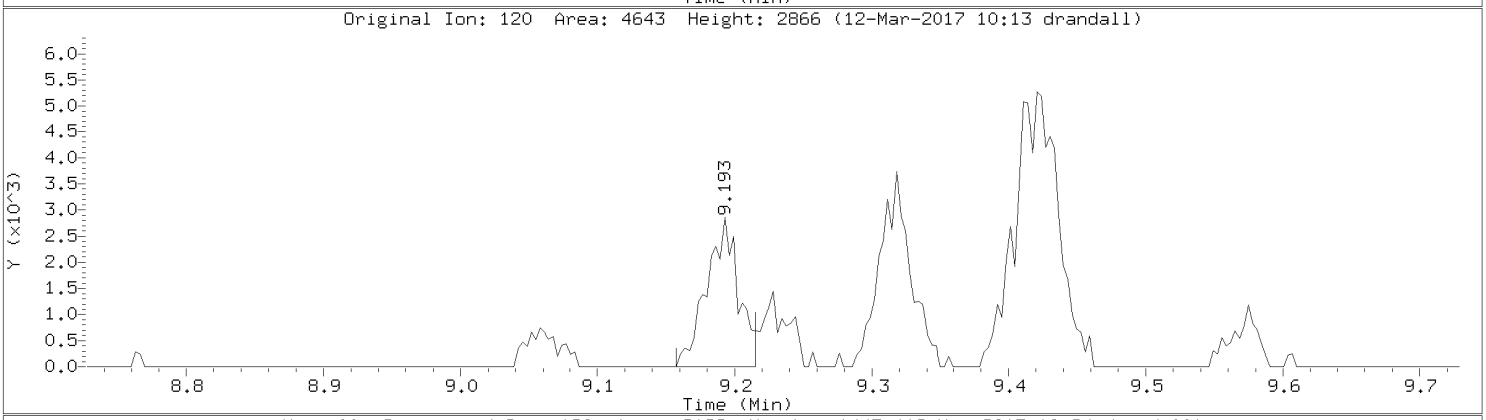


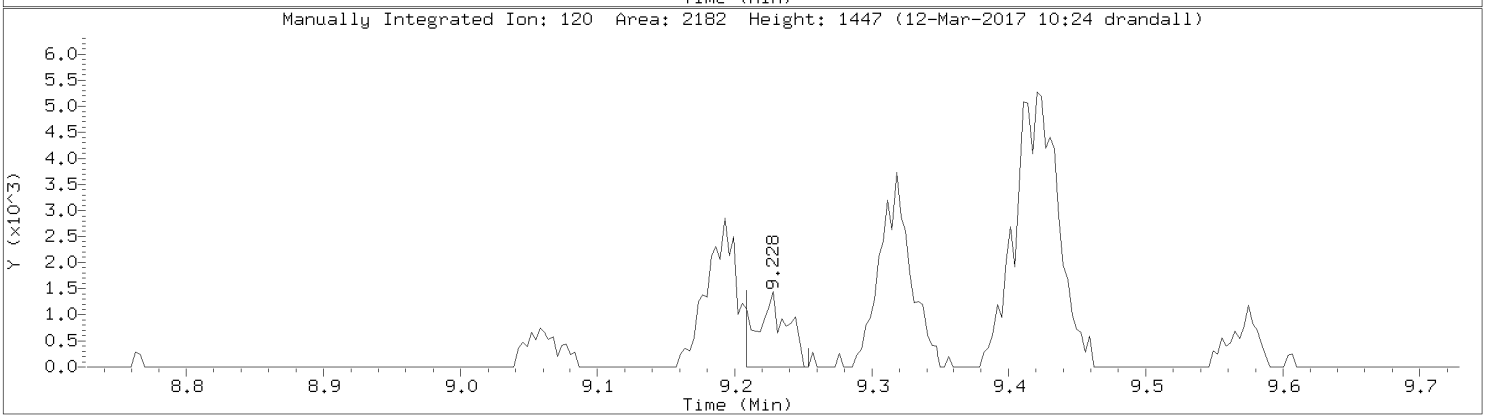
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07011.d
Injection Date: 11-MAR-2017 16:24
Instrument: 10airD.i
Lab Sample ID: 10380372010

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

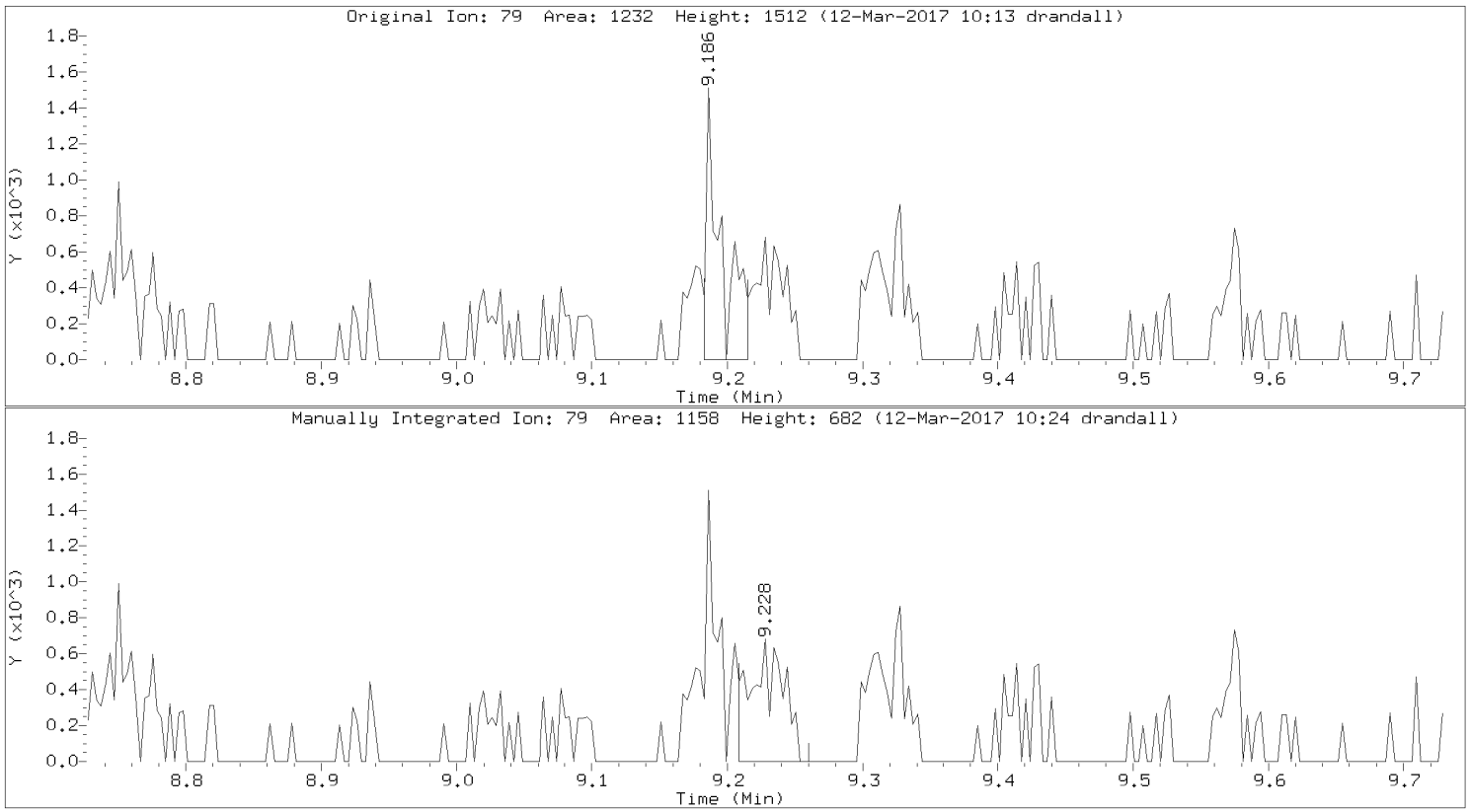






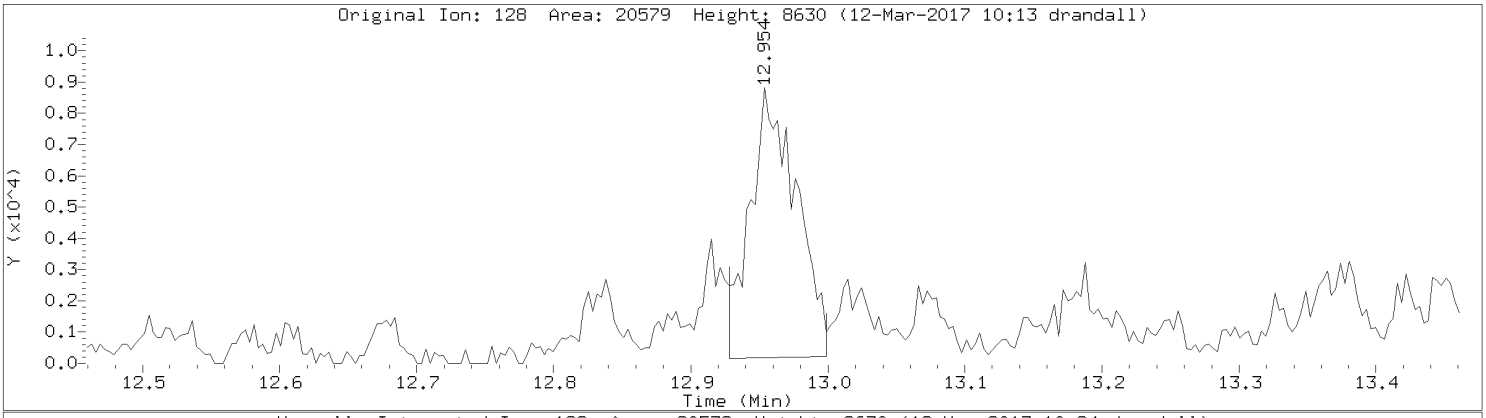


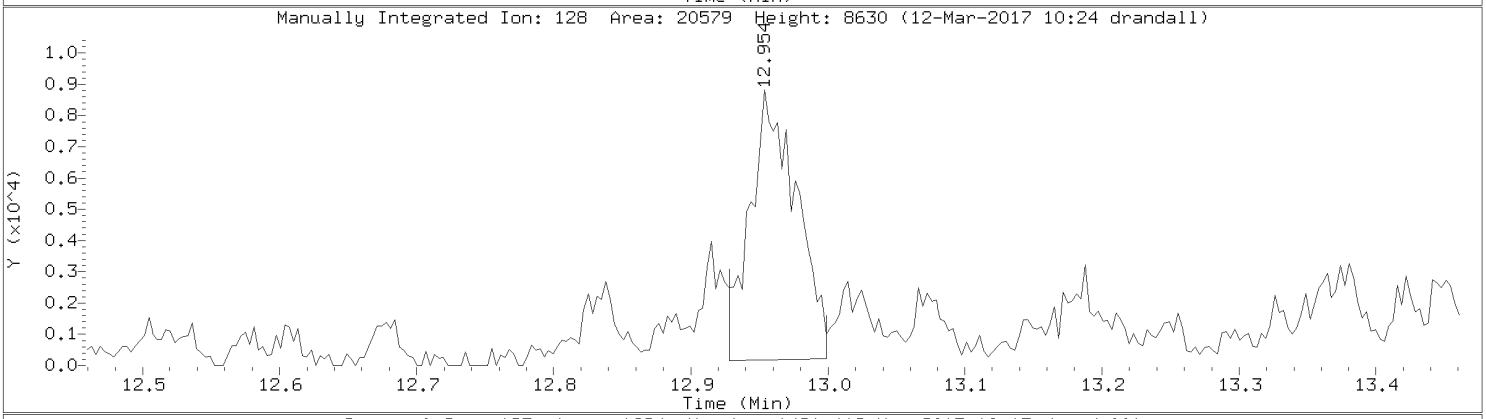
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07011.d
Injection Date: 11-MAR-2017 16:24
Instrument: 10airD.i
Lab Sample ID: 10380372010

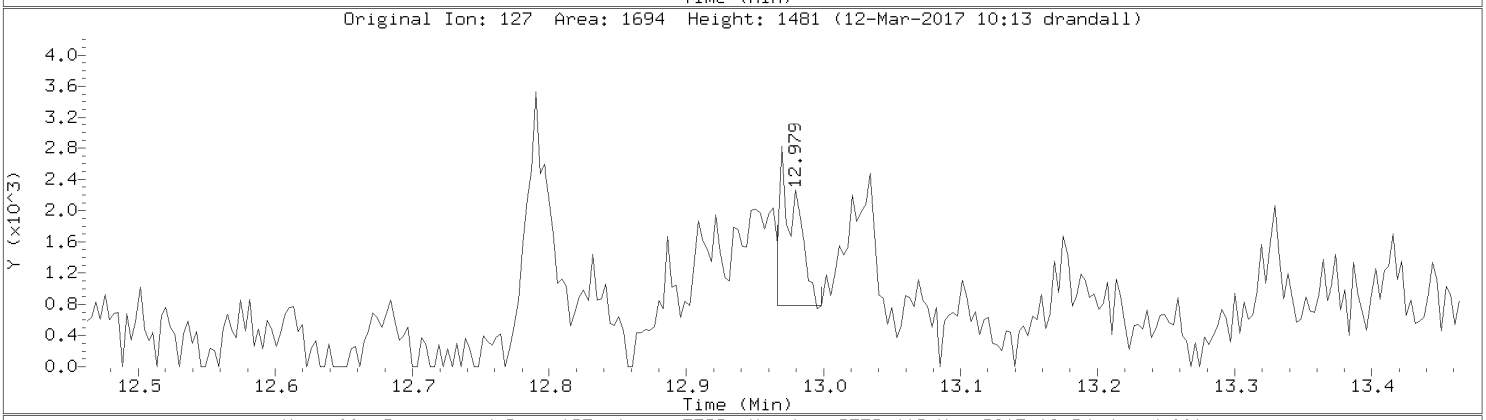


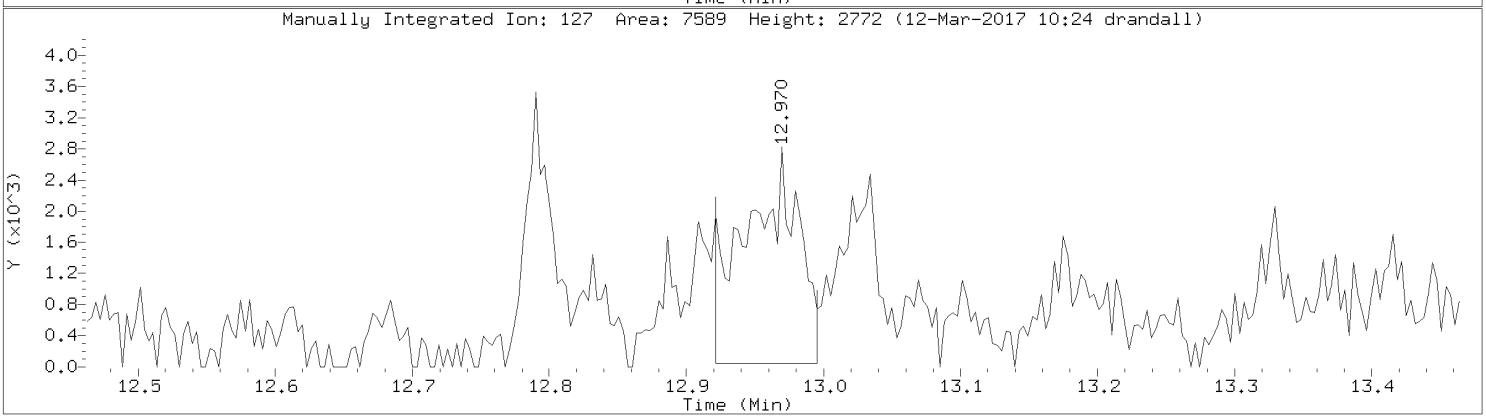
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07011.d
Injection Date: 11-MAR-2017 16:24
Instrument: 10airD.i
Lab Sample ID: 10380372010

Compound: Naphthalene
CAS Number: 91-20-3



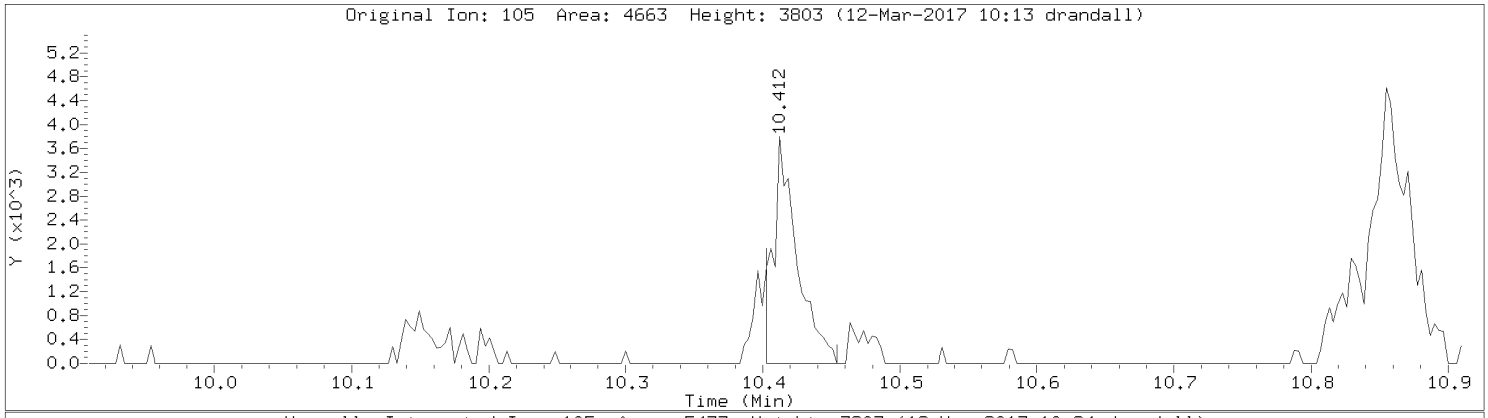


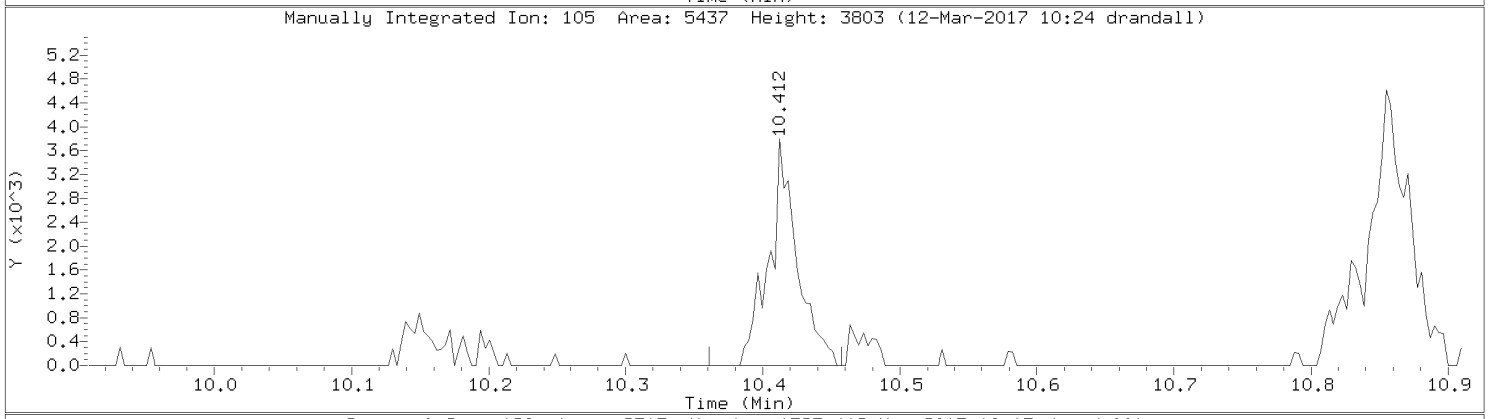


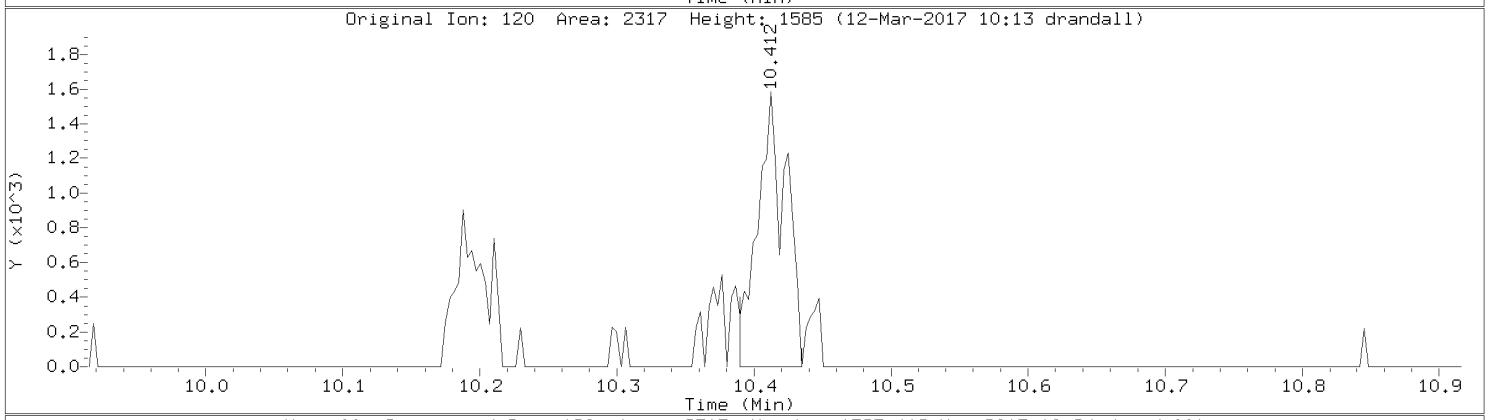


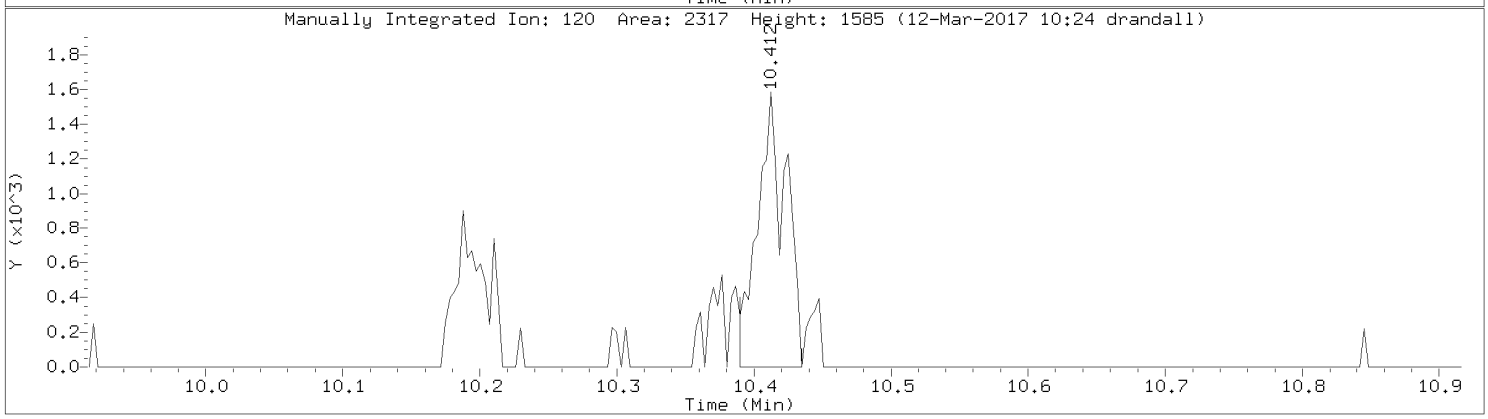
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07011.d
Injection Date: 11-MAR-2017 16:24
Instrument: 10airD.i
Lab Sample ID: 10380372010

Compound: 1,2,3-Trimethylbenzene
CAS Number: 526-73-8



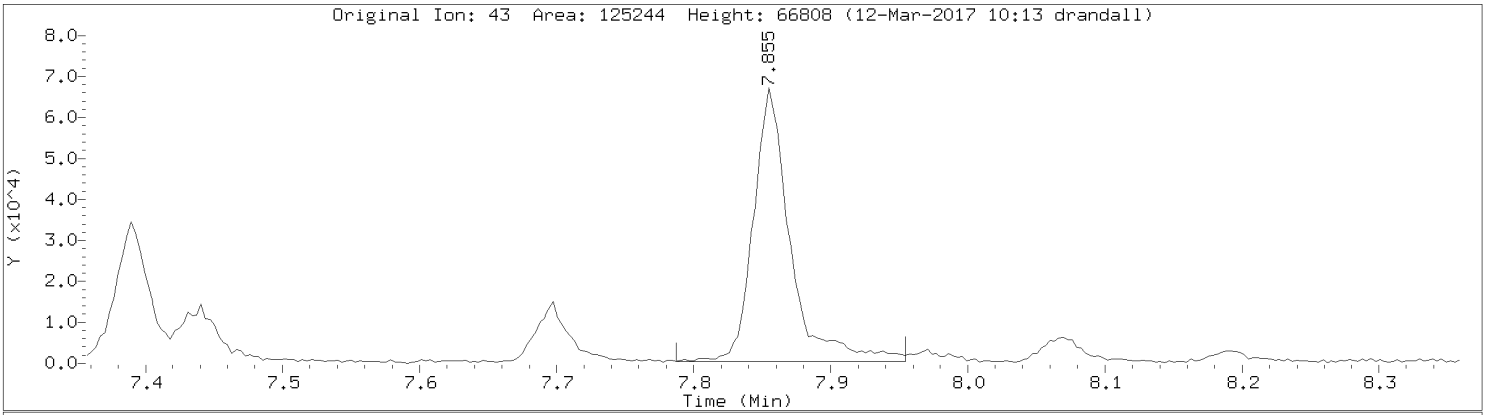


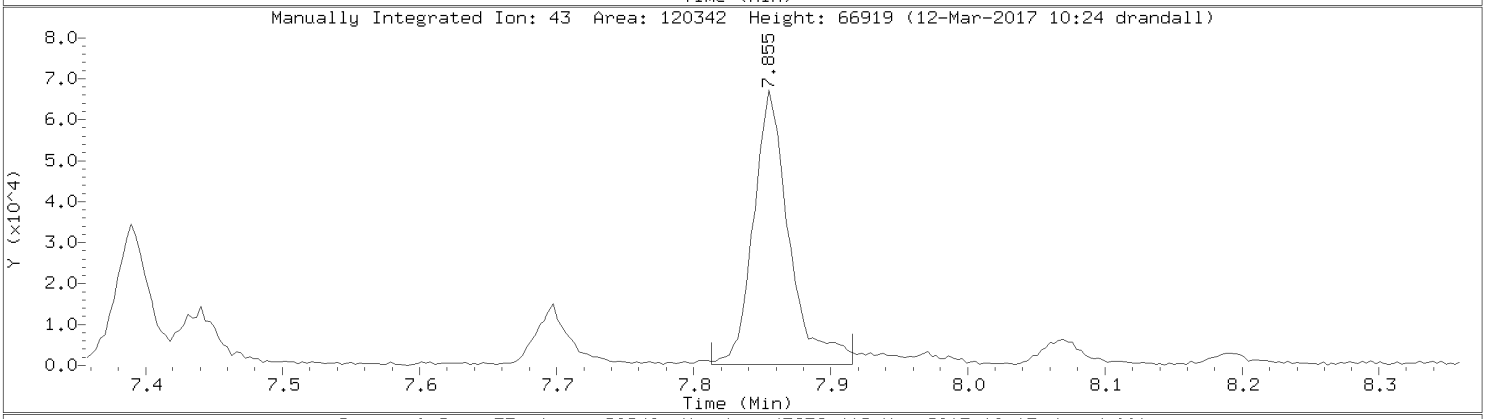


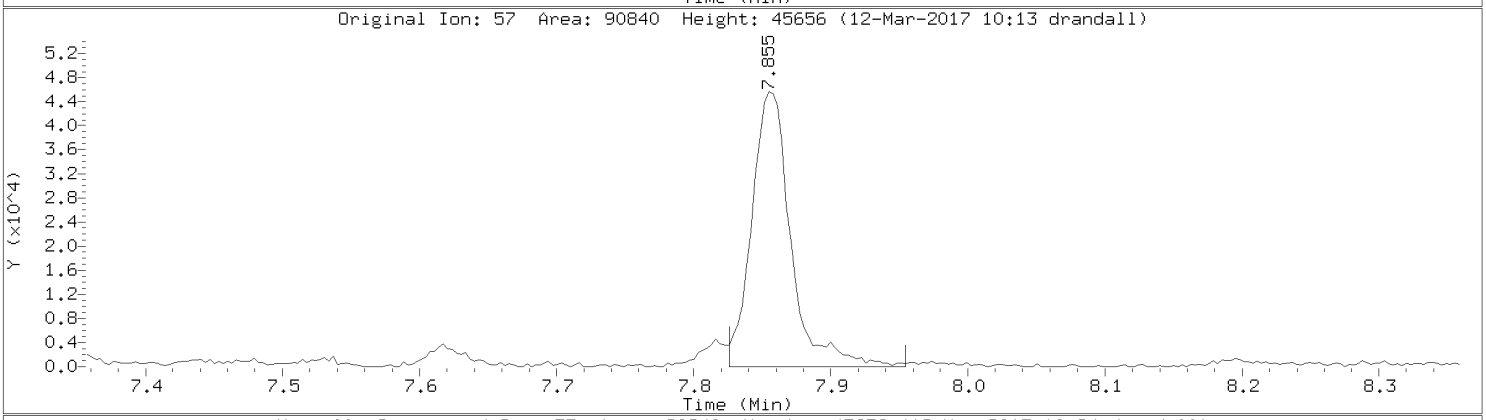


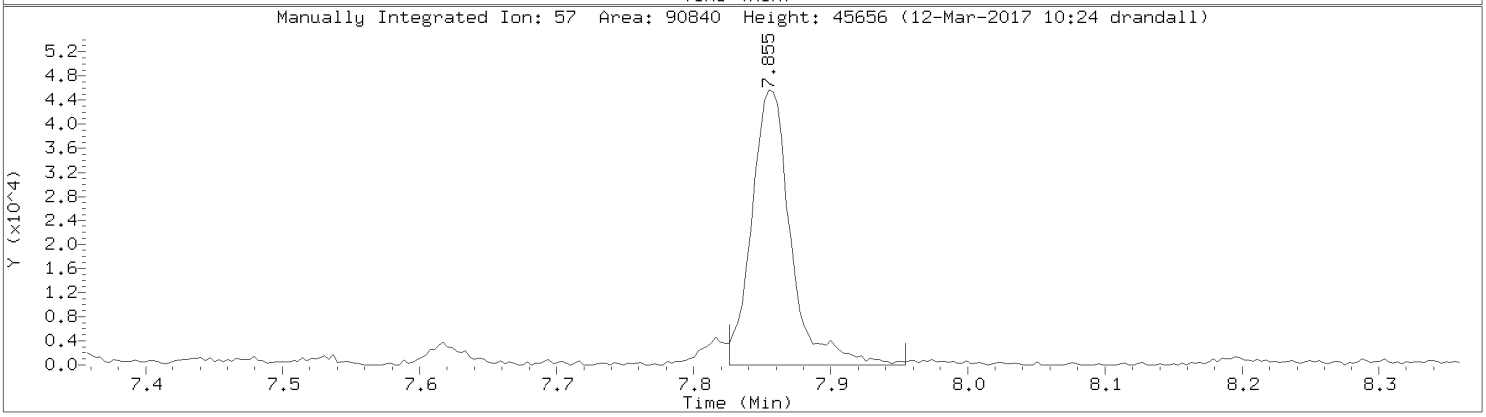
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07011.d
Injection Date: 11-MAR-2017 16:24
Instrument: 10airD.i
Lab Sample ID: 10380372010

Compound: n-Nonane
CAS Number: 111-84-2

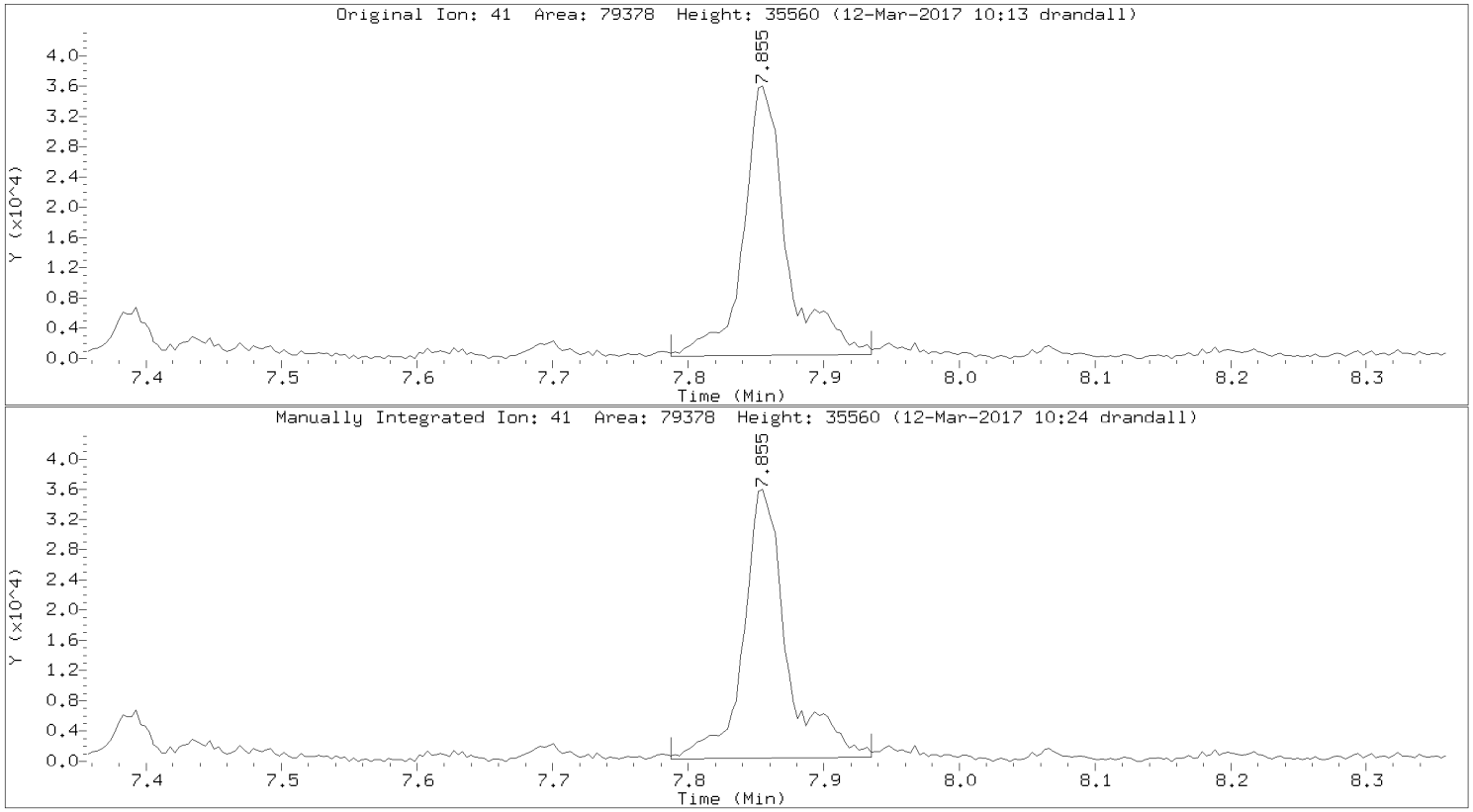








Data File: \\192.168.10.12\chem\10airD.i\031117.b/07011.d
Injection Date: 11-MAR-2017 16:24
Instrument: 10airD.i
Lab Sample ID: 10380372010



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07111.d
Report Date: 13-Mar-2017 07:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031217.b\07111.d
Lab Smp Id: 10380372010
Inj Date : 12-MAR-2017 15:21
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Meth Date : 13-Mar-2017 07:39 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 11
Dil Factor: 65.72000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	65.720	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	25 Methylene chloride	49	2.861	2.871	(0.675)	50370	1.27333	83.7
$	32 Hexane-d14(S)	66	3.263	3.272	(0.770)	1459799	8.92032	8.92
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	4.238	4.251	(1.000)	3082569	10.0000	
	51 Trichloroethene	130	4.562	4.575	(1.076)	24864	0.66775	43.9
$	59 Toluene-d8 (S)	98	5.560	5.566	(1.312)	2993329	9.69093	9.69
	66 Tetrachloroethene	166	6.401	6.407	(0.911)	14064	0.27496	18.1
*	67 Chlorobenzene - d5	117	7.027	7.033	(1.000)	2313635	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	10.194	10.200	(1.451)	1254195	8.84772	8.85

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07111.d
Report Date: 13-Mar-2017 07:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07111.d
Lab Smp Id: 10380372010
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 12-MAR-2017
Calibration Time: 10:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

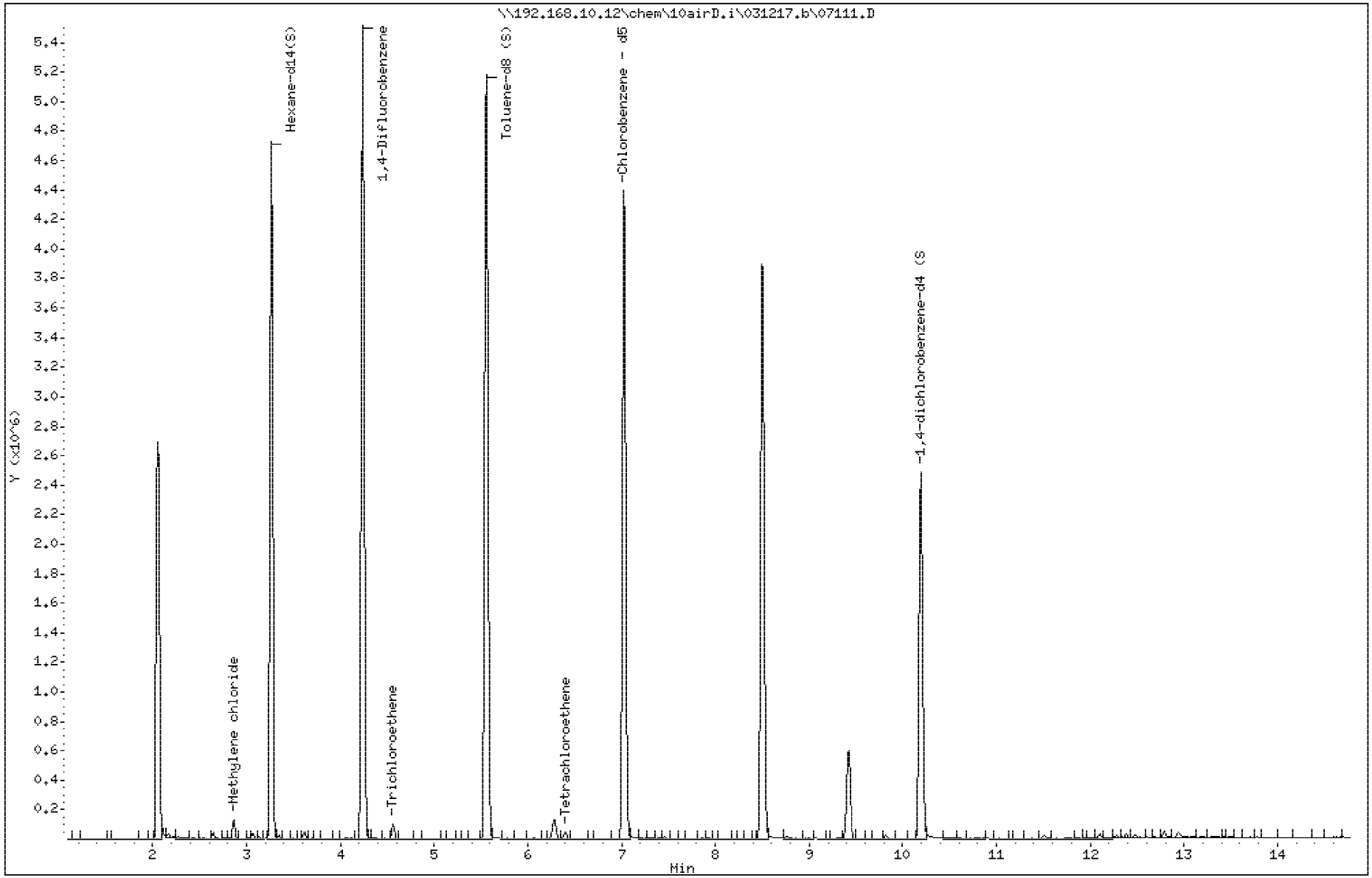
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3082569	-18.61
67 Chlorobenzene - d	3280875	1968525	4593225	2313635	-29.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.30
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07111.D
Date : 12-MAR-2017 15:21
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07111.D

Date : 12-MAR-2017 15:21

Client ID:

Instrument: 10airD.i

Sample Info:

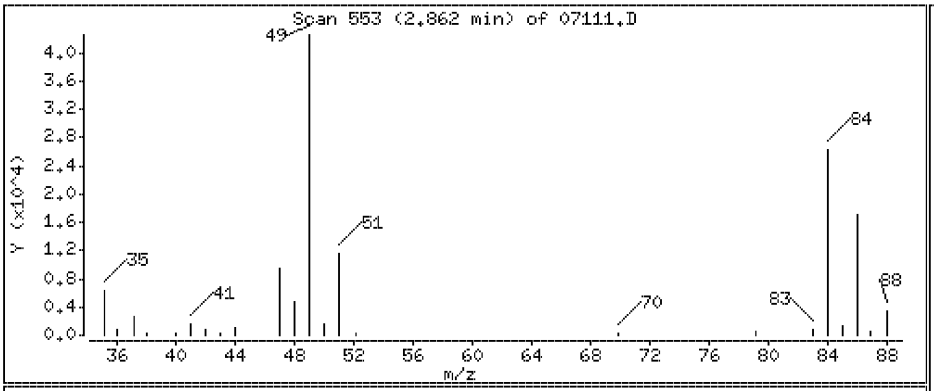
Operator: EMC

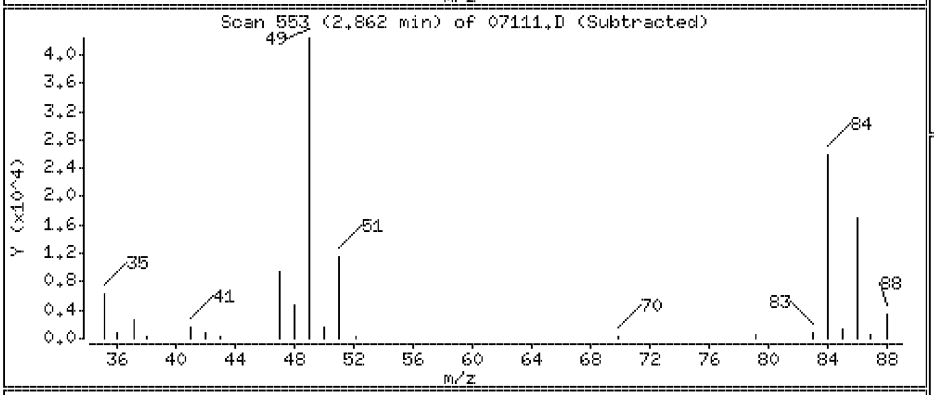
Column phase: J&W DB-5

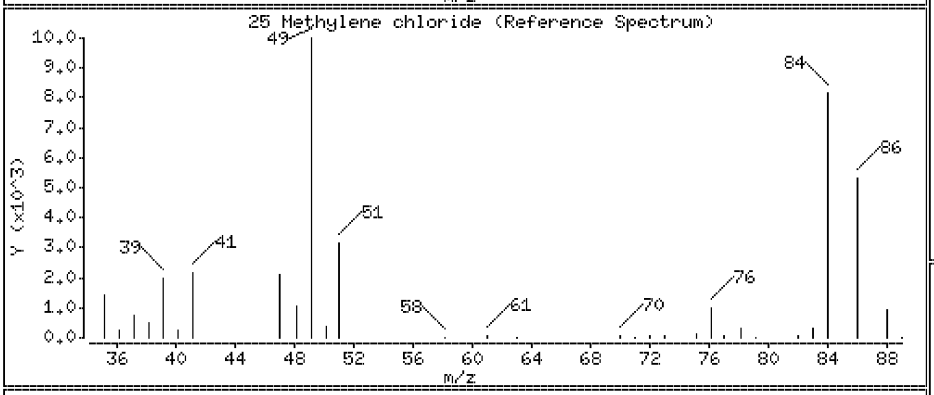
Column diameter: 0.32

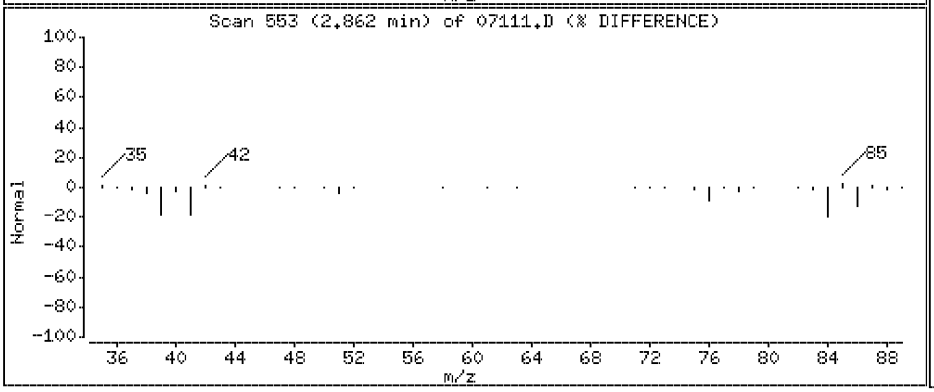
25 Methylene chloride

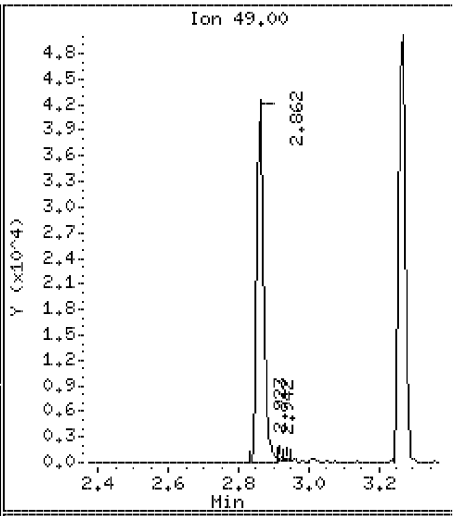
Concentration: 83.7 ppbv

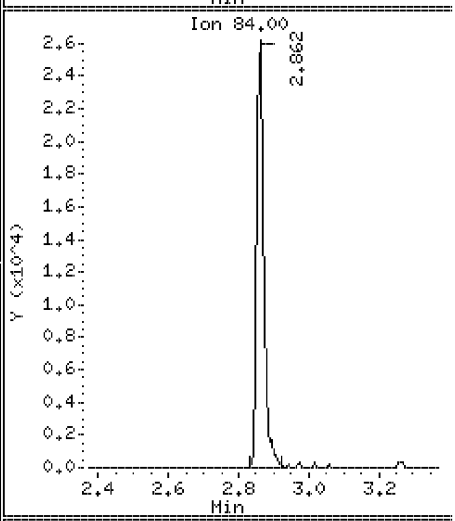


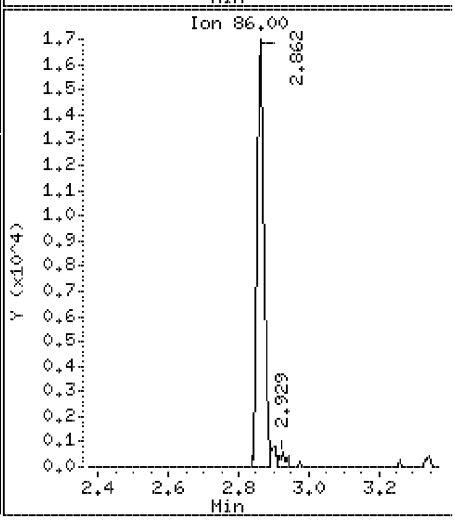












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07111.D

Date : 12-MAR-2017 15:21

Client ID:

Instrument: 10airD.i

Sample Info:

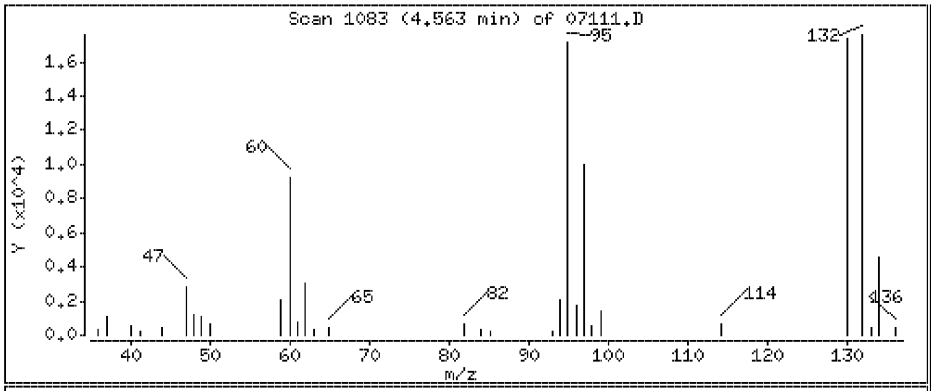
Operator: EMC

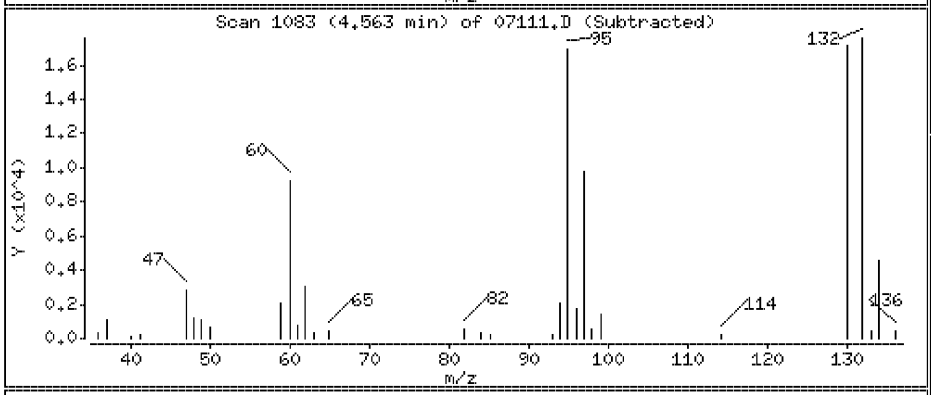
Column phase: J&W DB-5

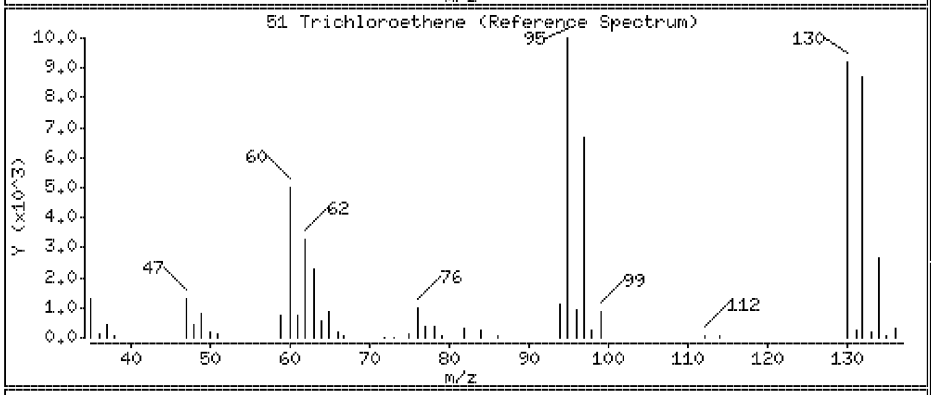
Column diameter: 0.32

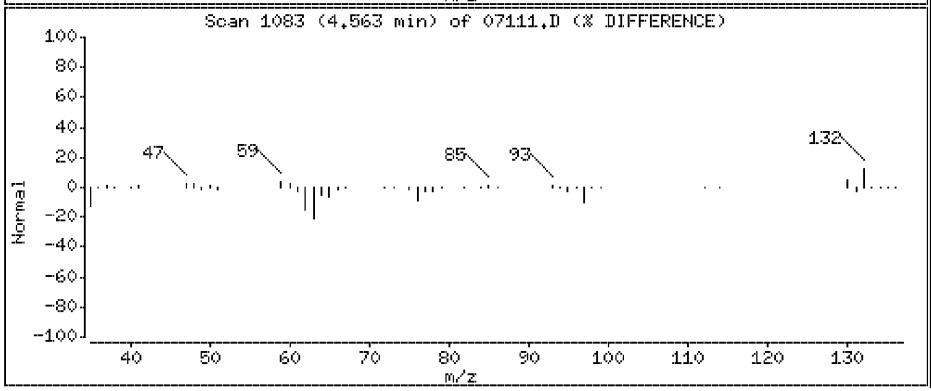
51 Trichloroethene

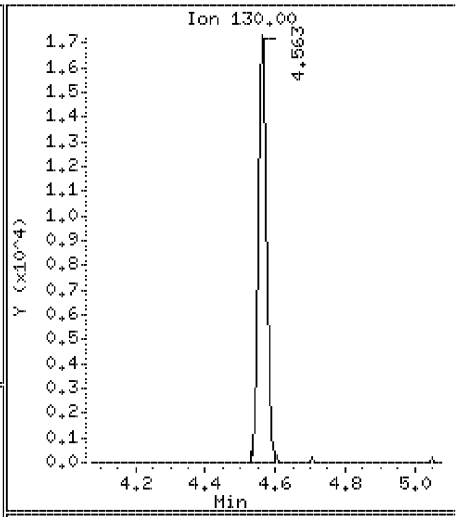
Concentration: 43.9 ppbv

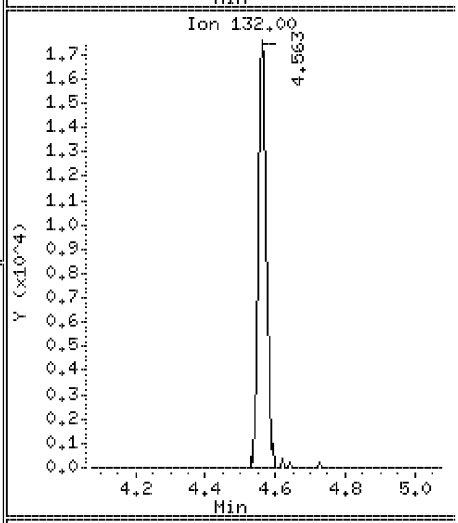


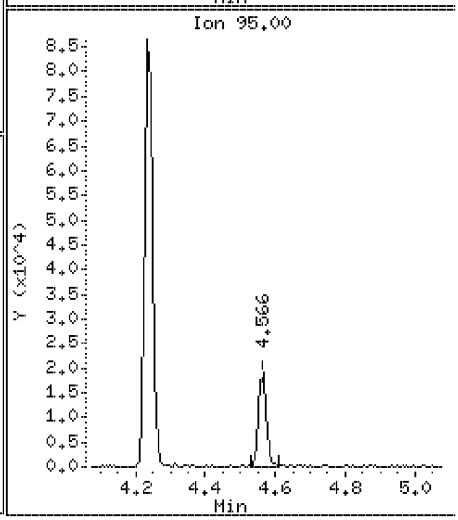












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07111.D

Date : 12-MAR-2017 15:21

Client ID:

Instrument: 10airD.i

Sample Info:

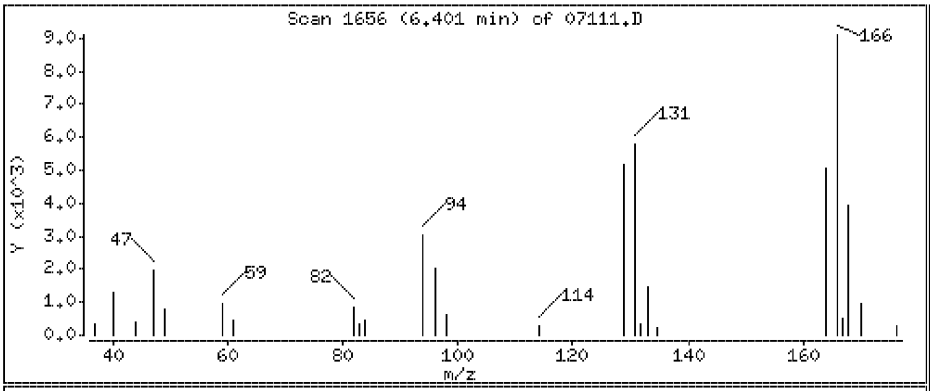
Operator: EMC

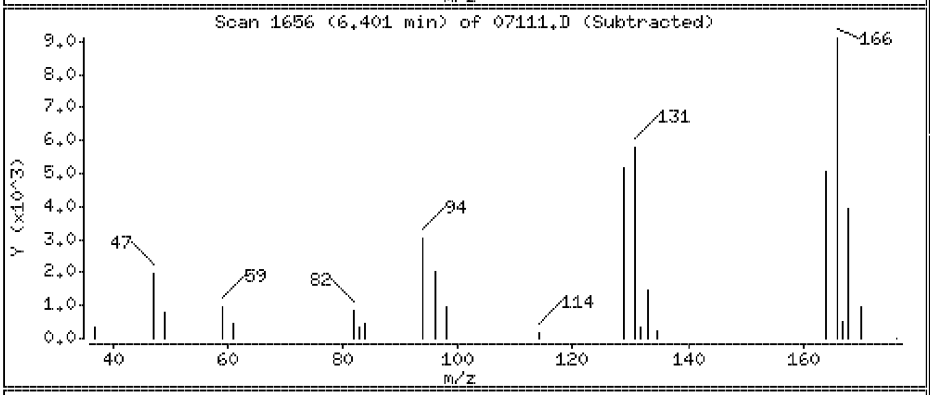
Column phase: J&W DB-5

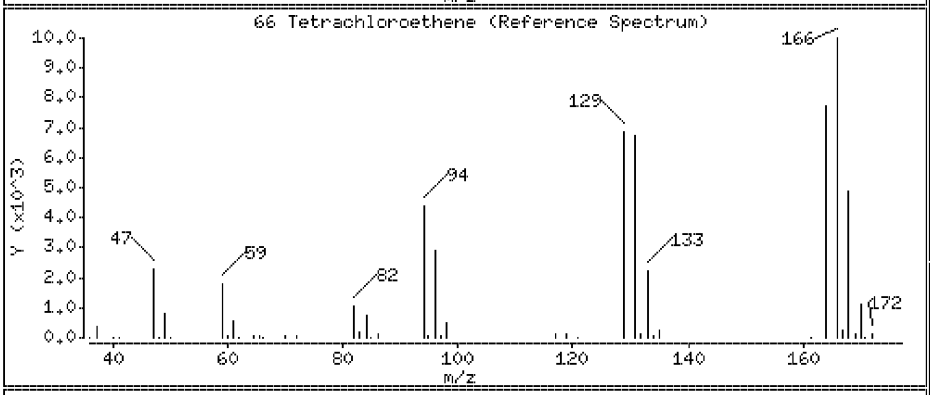
Column diameter: 0.32

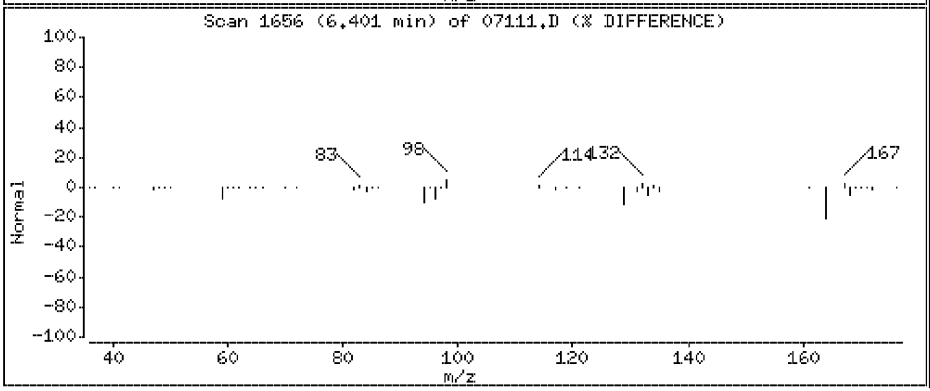
66 Tetrachloroethene

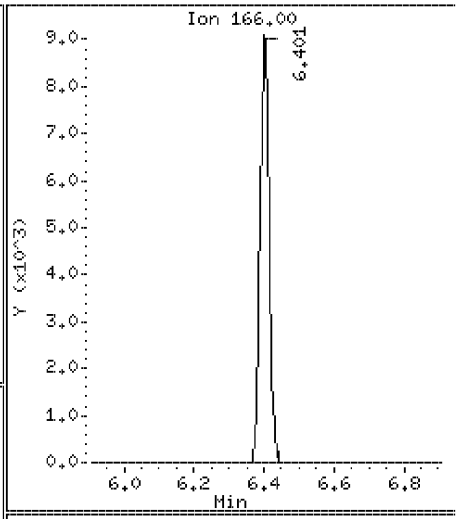
Concentration: 18.1 ppbv

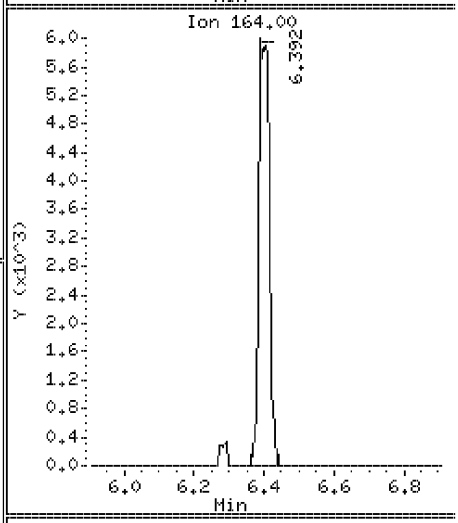


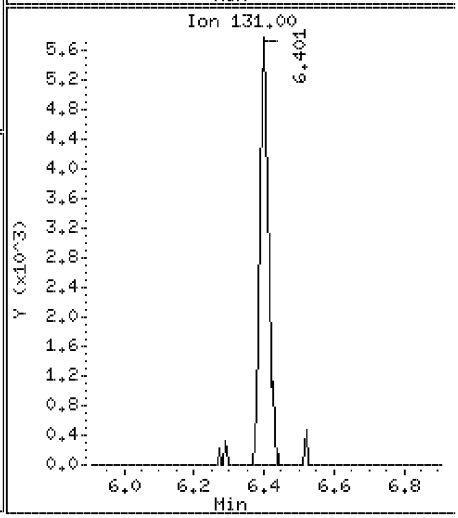












Data File: \\192.168.10.12\chem\10airD.i\031217.b/07111.d
Injection Date: 12-MAR-2017 15:21
Instrument: 10airD.i
Lab Sample ID: 10380372010
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_40_20170226 **Lab ID: 10380372011** Collected: 02/26/17 12:09 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**12.1**	ug/m3	10.6	1.5	1.75		03/11/17 17:51	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/11/17 17:51	107-05-1	
Benzene	**0.21U**	ug/m3	0.57	0.21	1.75		03/11/17 17:51	71-43-2	
Bromodichloromethane	**0.96J**	ug/m3	2.4	0.34	1.75		03/11/17 17:51	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/11/17 17:51	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/11/17 17:51	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/11/17 17:51	106-99-0	
2-Butanone (MEK)	**2.2J**	ug/m3	5.2	0.40	1.75		03/11/17 17:51	78-93-3	
Carbon disulfide	**0.79J**	ug/m3	1.1	0.18	1.75		03/11/17 17:51	75-15-0	
Carbon tetrachloride	**9.5**	ug/m3	1.1	0.34	1.75		03/11/17 17:51	56-23-5	CH
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/11/17 17:51	108-90-7	
Chlorodifluoromethane	**20.8**	ug/m3	1.3	0.48	1.75		03/11/17 17:51	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/11/17 17:51	75-00-3	
Chloroform	**6.8**	ug/m3	0.87	0.33	1.75		03/11/17 17:51	67-66-3	
Chloromethane	**0.19U**	ug/m3	0.74	0.19	1.75		03/11/17 17:51	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 17:51	76-15-3	CL
Cyclohexane	**0.55U**	ug/m3	1.2	0.55	1.75		03/11/17 17:51	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/11/17 17:51	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/11/17 17:51	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/11/17 17:51	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/11/17 17:51	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/11/17 17:51	541-73-1	
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/11/17 17:51	106-46-7	
Dichlorodifluoromethane	**3.2**	ug/m3	1.8	0.84	1.75		03/11/17 17:51	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/11/17 17:51	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/11/17 17:51	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/11/17 17:51	75-35-4	
cis-1,2-Dichloroethene	**3.6**	ug/m3	1.4	0.43	1.75		03/11/17 17:51	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/11/17 17:51	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/11/17 17:51	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/11/17 17:51	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/11/17 17:51	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/11/17 17:51	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 17:51	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/11/17 17:51	123-91-1	
Ethylbenzene	**0.74U**	ug/m3	1.5	0.74	1.75		03/11/17 17:51	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/11/17 17:51	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/11/17 17:51	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.3	0.62	1.75		03/11/17 17:51	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/11/17 17:51	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/11/17 17:51	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/11/17 17:51	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/11/17 17:51	108-87-2	
Methylene Chloride	**4.5J**	ug/m3	6.2	0.95	1.75		03/11/17 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/11/17 17:51	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/11/17 17:51	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.d
Report Date: 12-Mar-2017 10:29

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07014.d
Lab Smp Id: 10380372011
Inj Date : 11-MAR-2017 17:51
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 14
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.123	2.155	(0.500)	25471	3.30707	5.79(QH)	
4	Propylene	41	2.133	2.146	(0.503)	6577	0.11845	0.207(H)	
5	Dichlorodifluoromethane	85	2.149	2.165	(0.506)	25237	0.35981	0.630	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	2.515	2.521	(0.593)	24692	5.04132	8.82(H)	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.605	2.614	(0.614)	31687	0.43185	0.756	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.653	2.653	(0.625)	140692	2.86465	5.01	
19	Isopropyl Alcohol	45	2.682	2.688	(0.632)	52774	2.12355	3.72(QM)	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	2.842	2.845	(0.670)	6521	0.19287	0.338	
22	Freon 113	101	2.826	2.829	(0.666)	45766	0.79557	1.39	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.d
Report Date: 12-Mar-2017 10:29

							CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppbv)	(ppbv)	
	25 Methylene chloride	49	2.865	2.871	(0.675)	34506	0.72720	1.27	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	2.961	2.970	(0.698)	8812	0.14227	0.249(M)	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.275	(0.770)	1632752	9.64039	9.64(H)	
	33 Methyl Ethyl Ketone	72	3.346	3.359	(0.788)	4340	0.42787	0.749(Q)	
	34 n-Hexane	57	3.346	3.352	(0.788)	7303	0.19914	0.348(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	3.461	3.465	(0.816)	11901	0.50562	0.885	
	37 Ethyl Acetate	43	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	3.551	3.558	(0.837)	46435	0.78119	1.37	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	3.891	3.901	(0.917)	6641	0.11106	0.194	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	Compound Not Detected.						(D)
	45 Carbon tetrachloride	117	4.110	4.116	(0.968)	47910	0.85127	1.49	
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.244	4.247	(1.000)	3190258	10.0000		
	48 2,2,4-Trimethylpentane	57	4.373	4.376	(1.030)	6996	158.700	278(A)	
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	4.565	4.568	(1.076)	1431918	37.1575	65.0(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 Bromodichloromethane	83	4.655	4.655	(1.097)	5356	0.08071	0.141	
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.563	5.563	(1.311)	3092469	9.67394	9.67	
	60 Toluene	91	5.634	5.631	(1.327)	75240	0.79779	1.40	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						(D)
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.404	6.404	(0.911)	916121	17.1235	30.0	
*	67 Chlorobenzene - d5	117	7.030	7.030	(1.000)	2420048	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	8822	0.08308	0.145	
	70 m&p-Xylene	91	7.460	7.460	(1.061)	23100	0.14989	0.262	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	Compound Not Detected.						(D)
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	7.928	7.928	(1.128)	10057	0.11488	0.201	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.d
Report Date: 12-Mar-2017 10:29

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.822	9.825	(1.397)	25208	0.19189	0.336	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.450)	1295813	8.73936	8.74	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.963	12.960	(1.844)	6410	0.25276	0.442	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.d
Report Date: 12-Mar-2017 10:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07014.d
Lab Smp Id: 10380372011
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

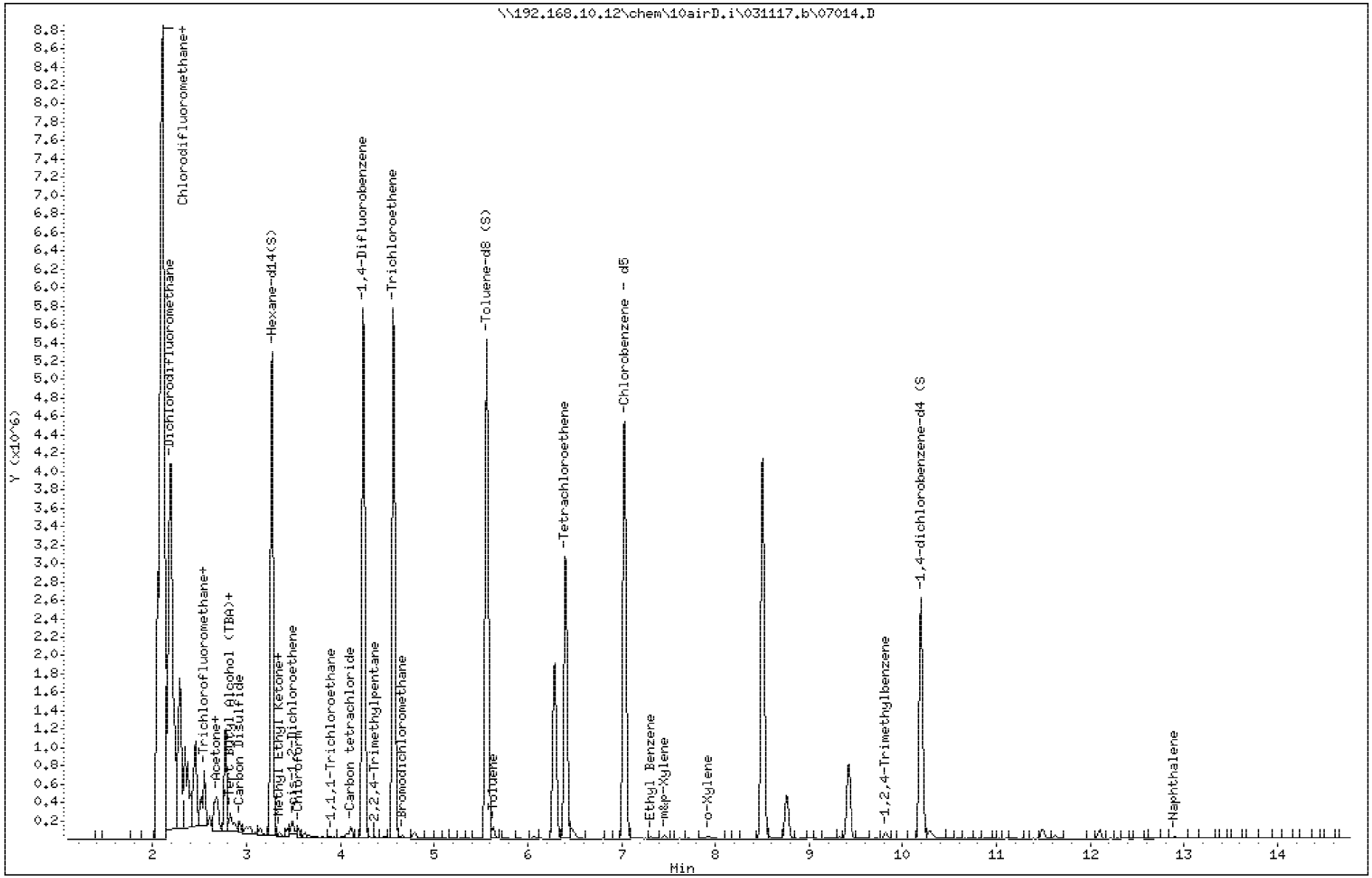
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3190258	-15.77
67 Chlorobenzene - d	3280875	1968525	4593225	2420048	-26.24

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.07
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D
Date : 11-MAR-2017 17:51
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

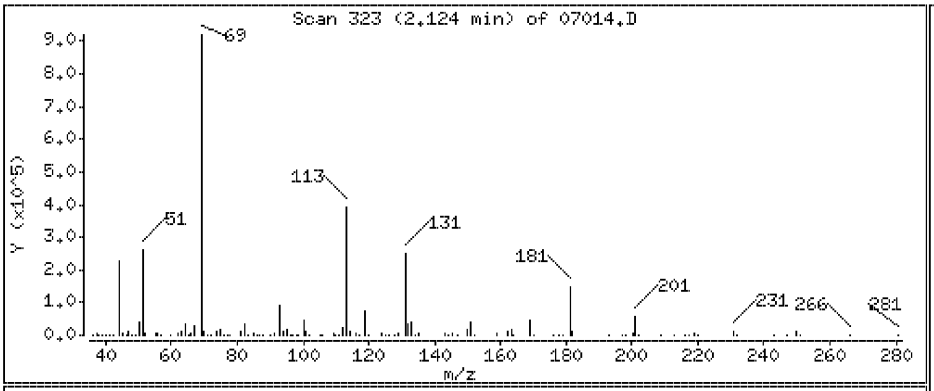
Operator: DR1

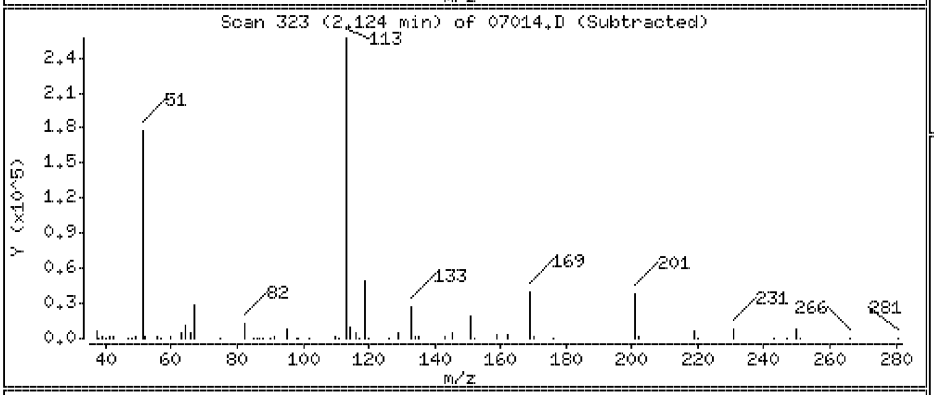
Column phase: J&W DB-5

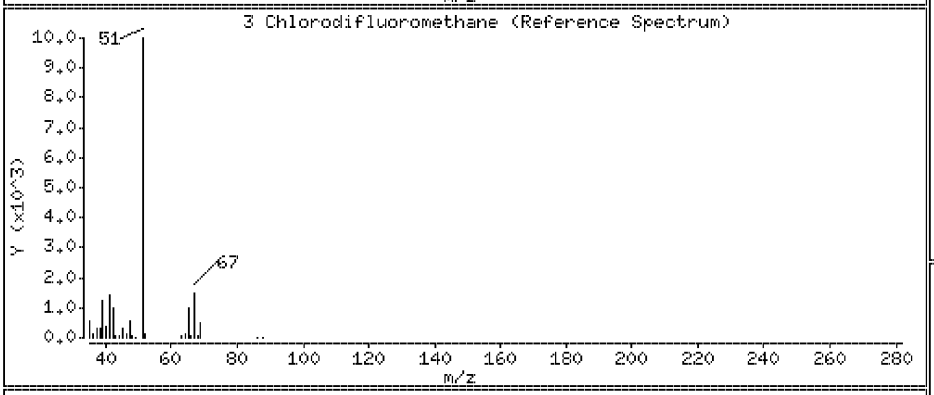
Column diameter: 0.32

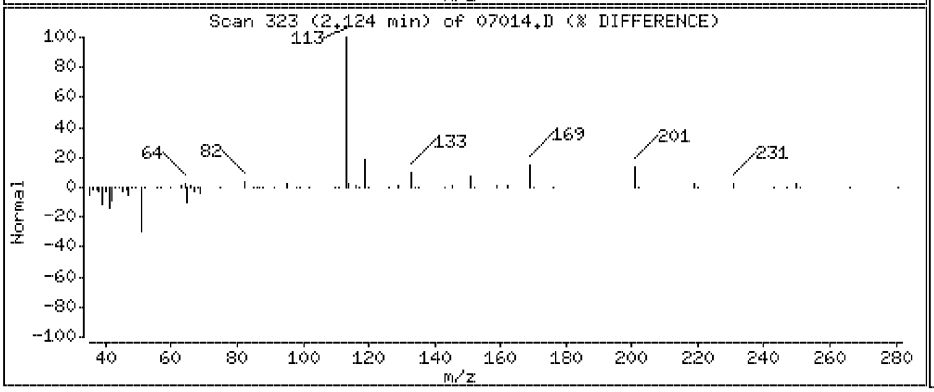
3 Chlorodifluoromethane

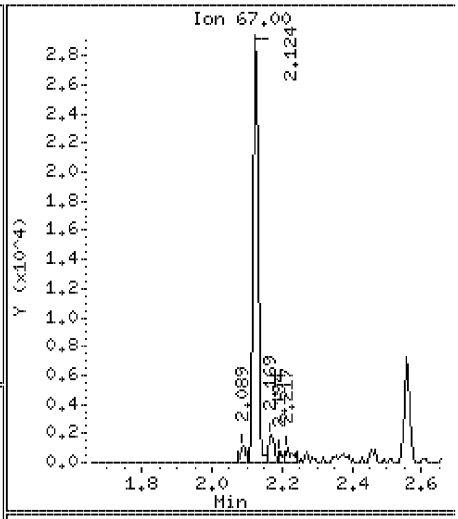
Concentration: 5.79 ppbv

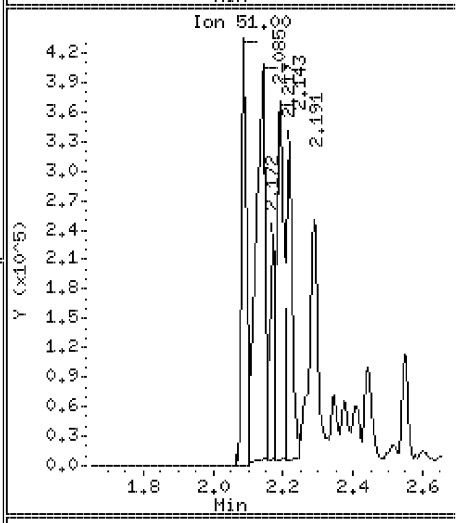


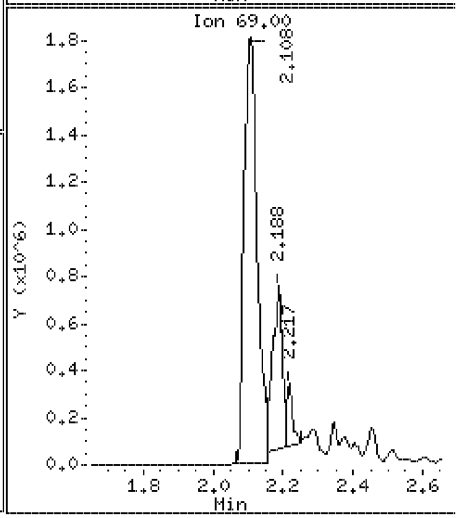












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

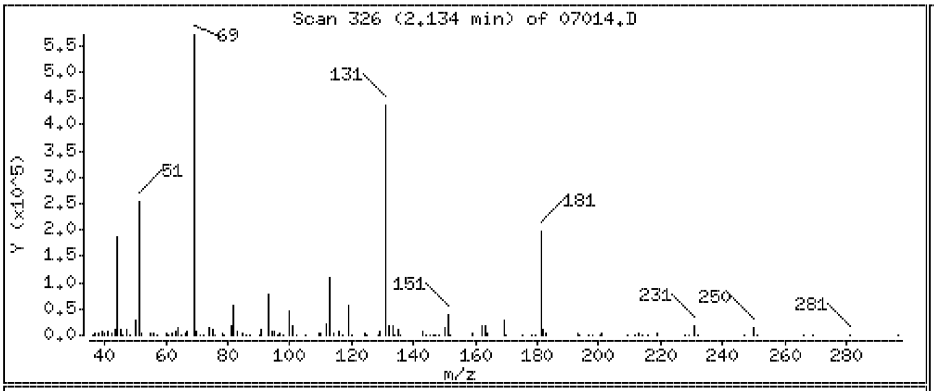
Operator: DR1

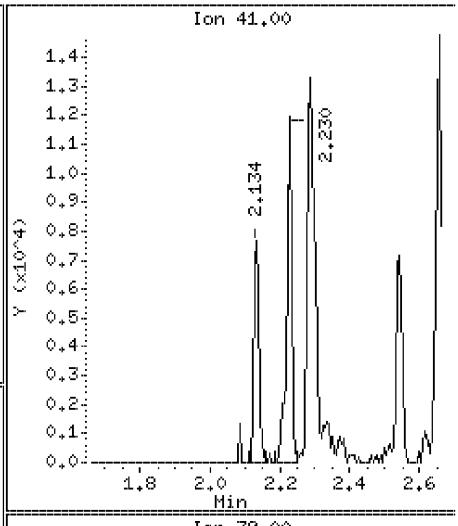
Column phase: J&W DB-5

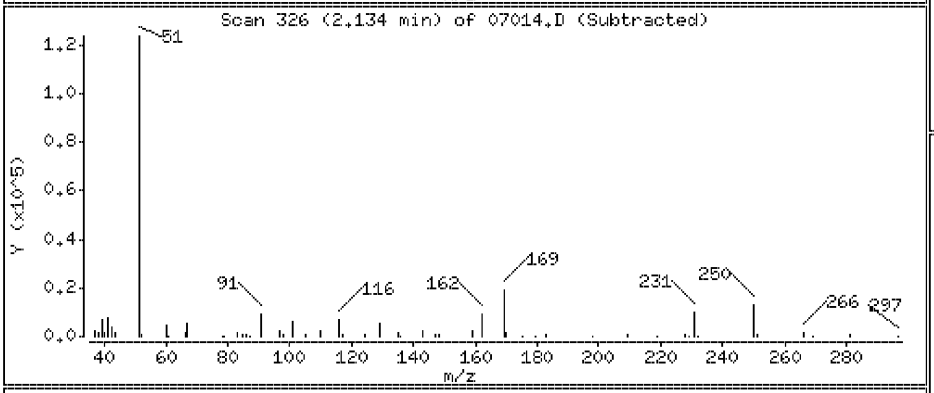
Column diameter: 0.32

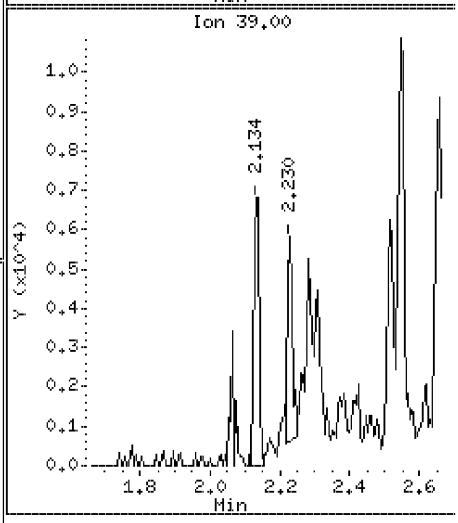
4 Propylene

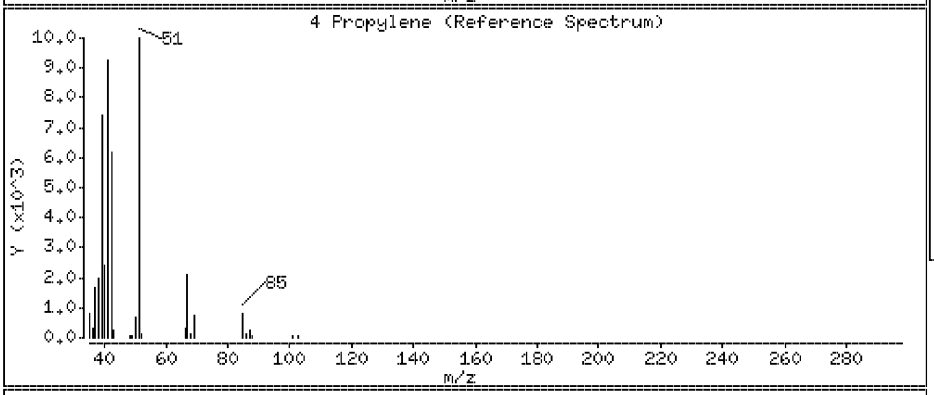
Concentration: 0.207 ppbv

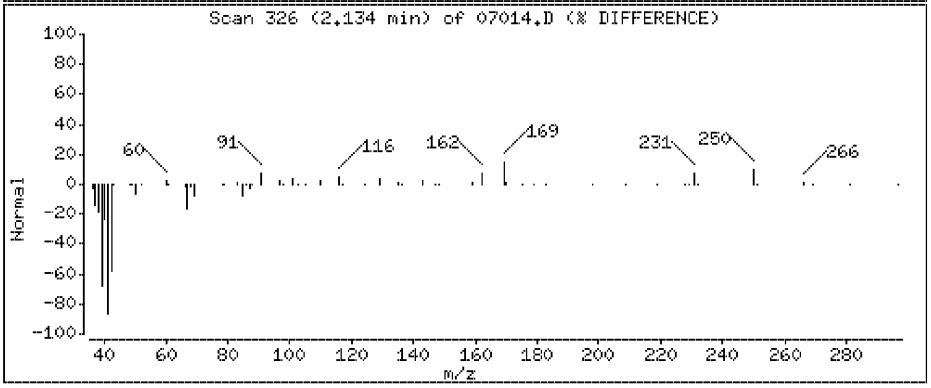












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

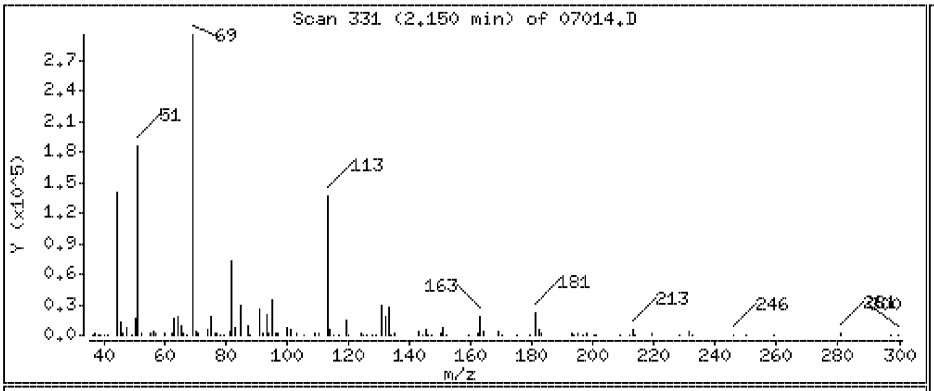
Operator: DR1

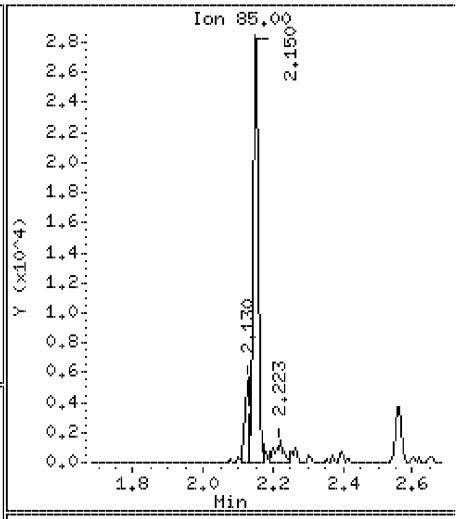
Column phase: J&W DB-5

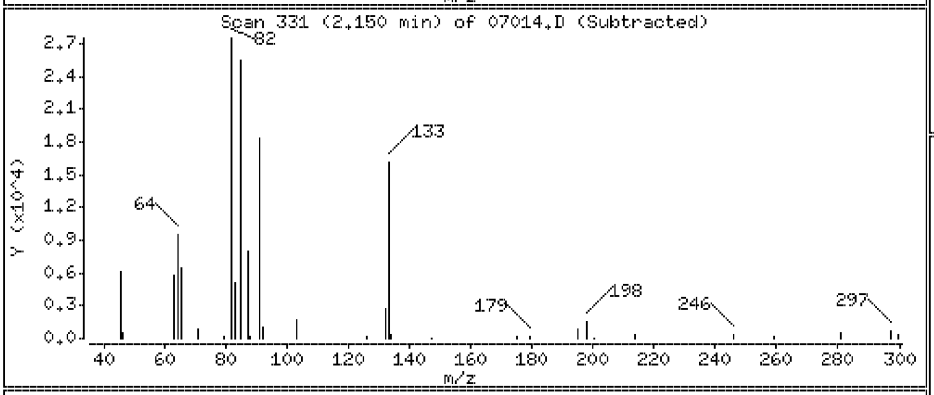
Column diameter: 0.32

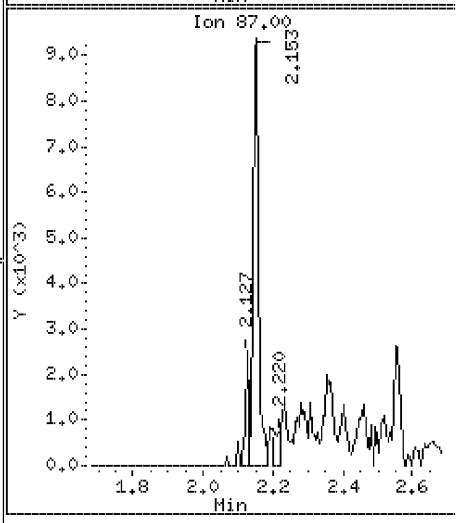
5 Dichlorodifluoromethane

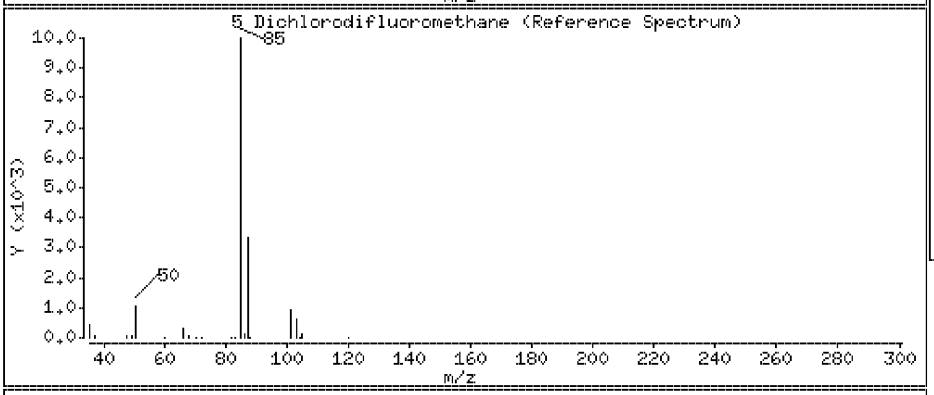
Concentration: 0.630 ppbv

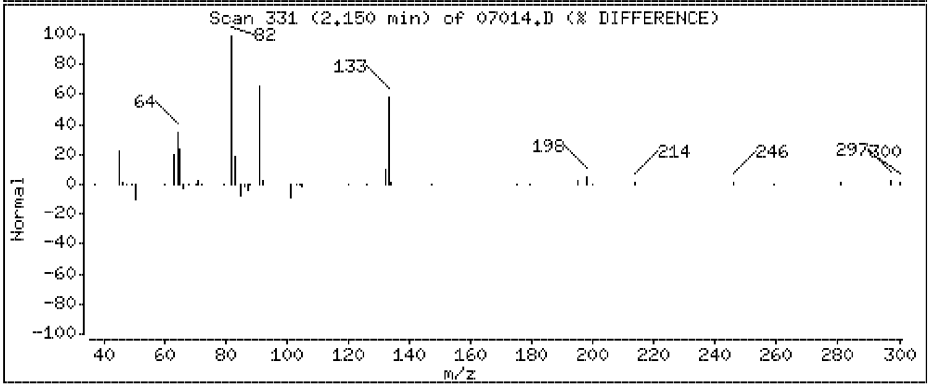












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

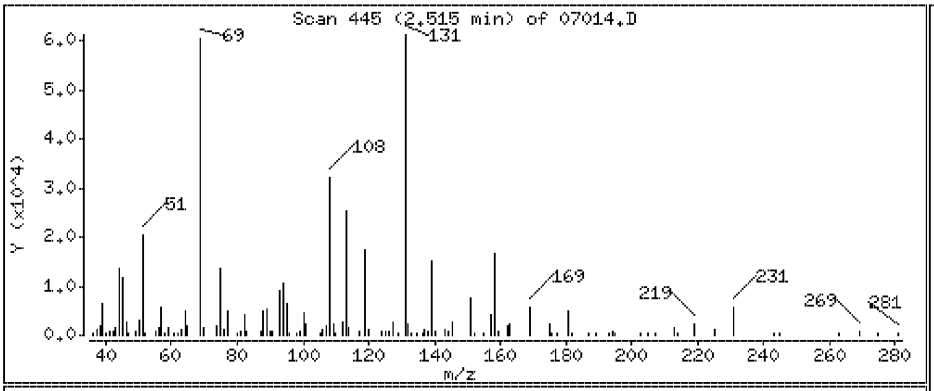
Operator: DR1

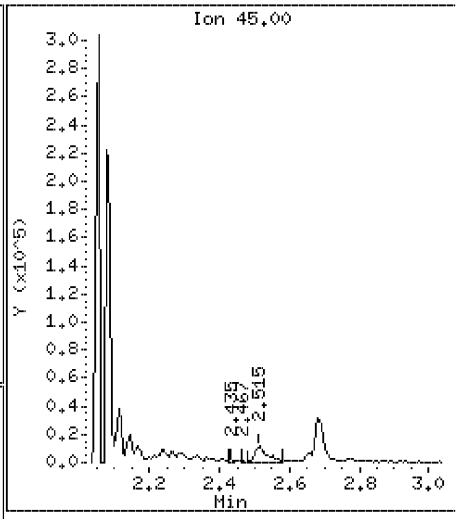
Column phase: J&W DB-5

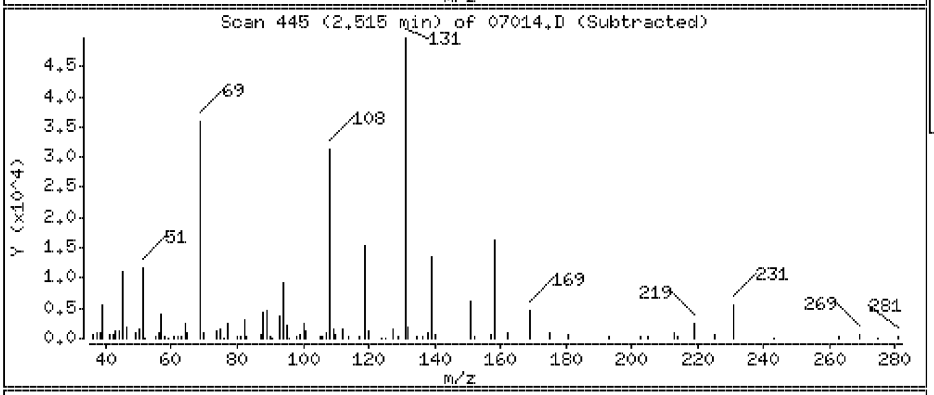
Column diameter: 0.32

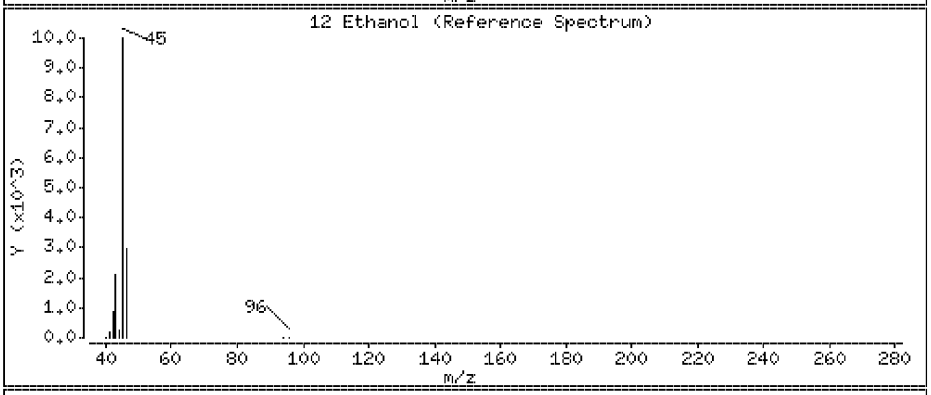
12 Ethanol

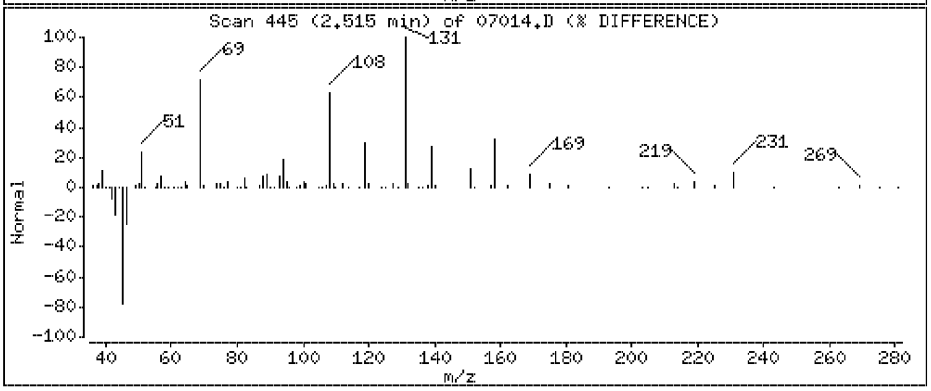
Concentration: 8.82 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

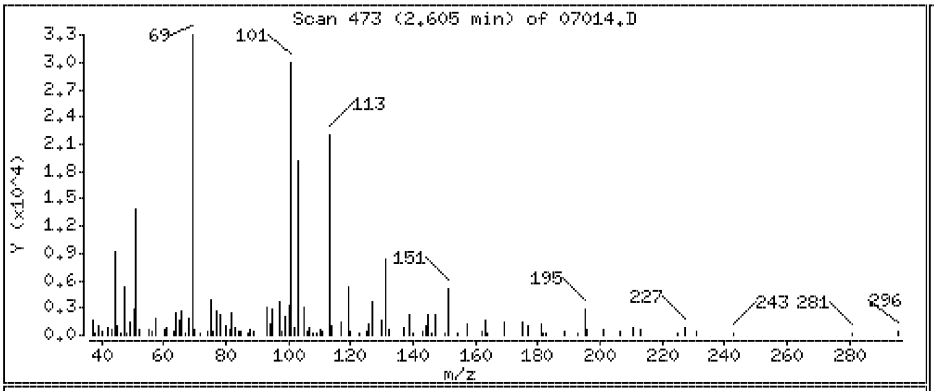
Operator: DR1

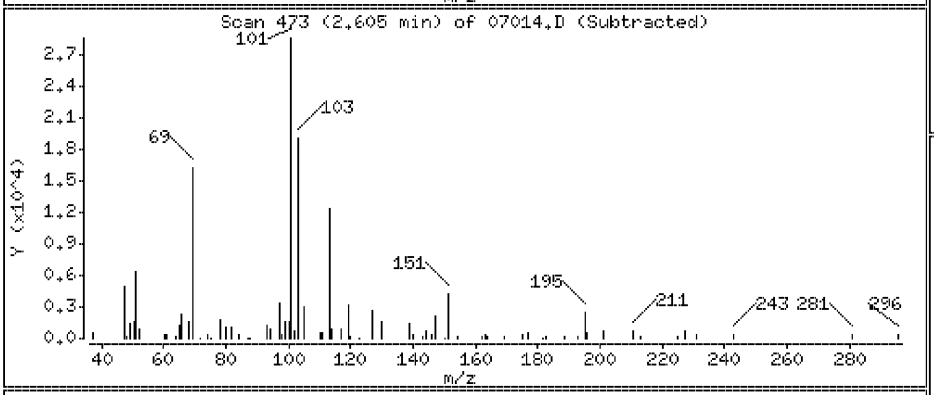
Column phase: J&W DB-5

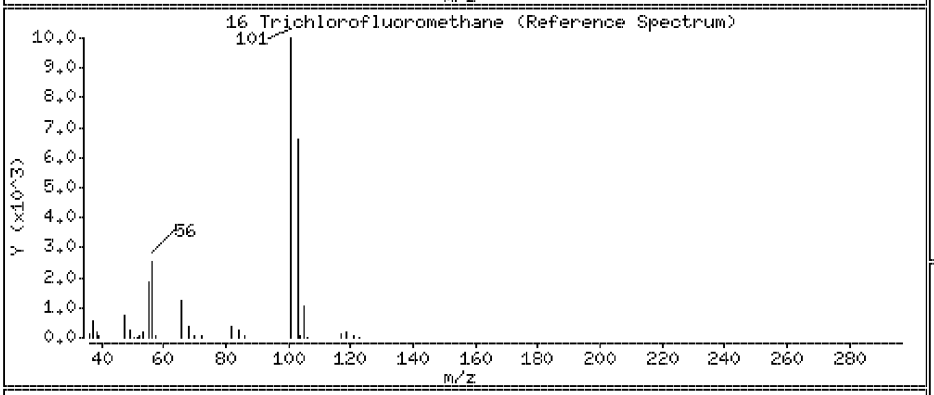
Column diameter: 0.32

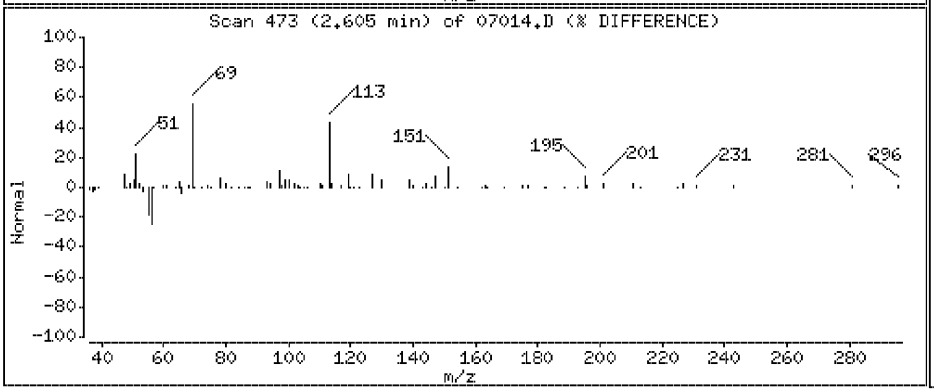
16 Trichlorofluoromethane

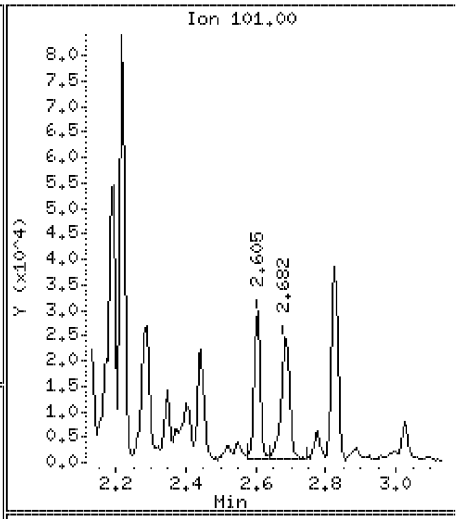
Concentration: 0.756 ppbv

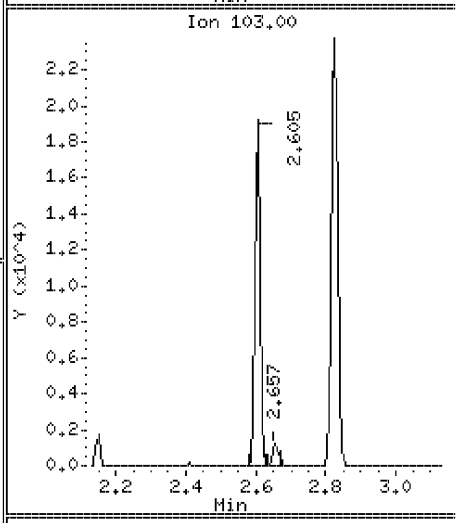


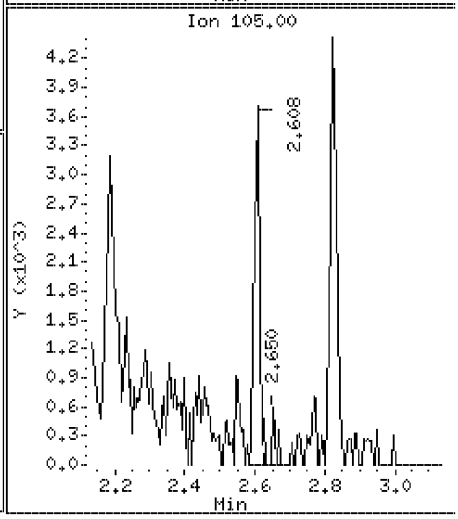












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

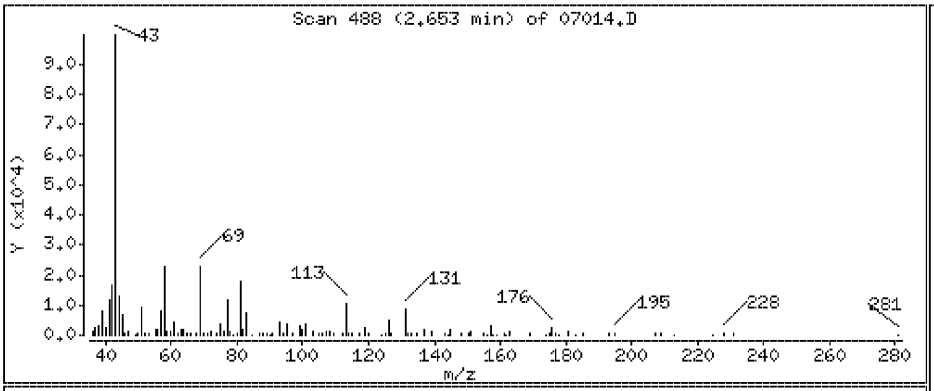
Operator: DR1

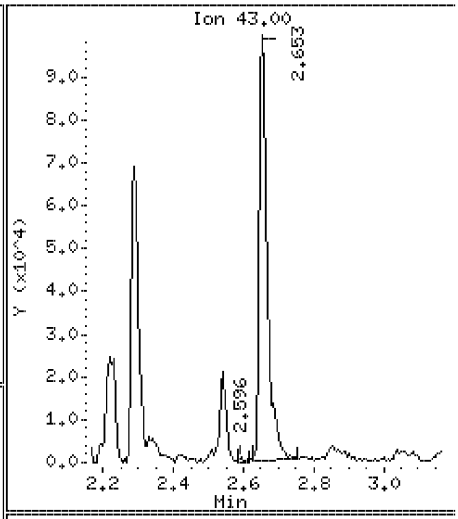
Column phase: J&W DB-5

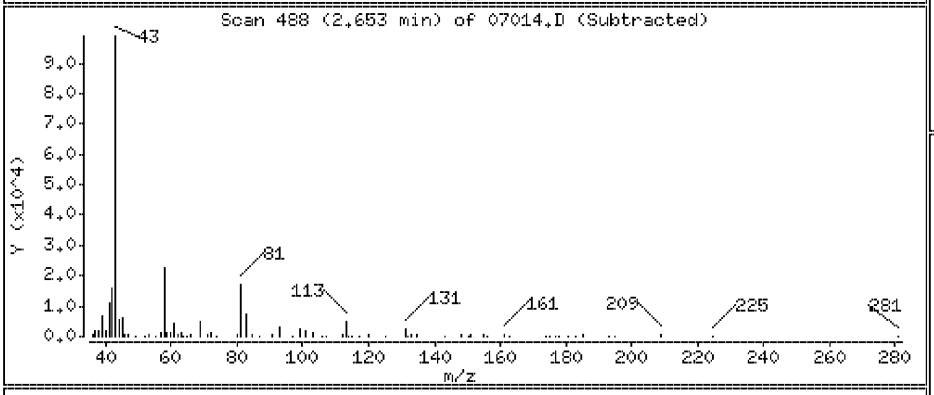
Column diameter: 0.32

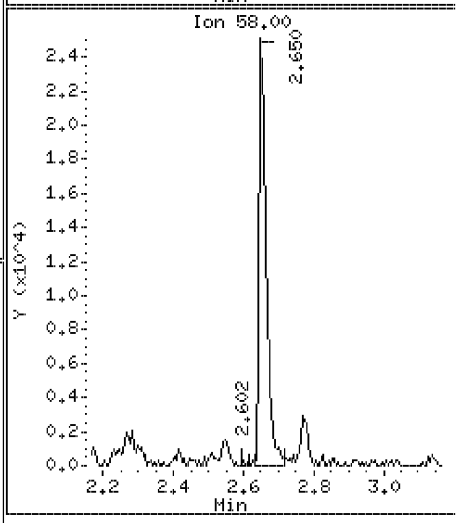
18 Acetone

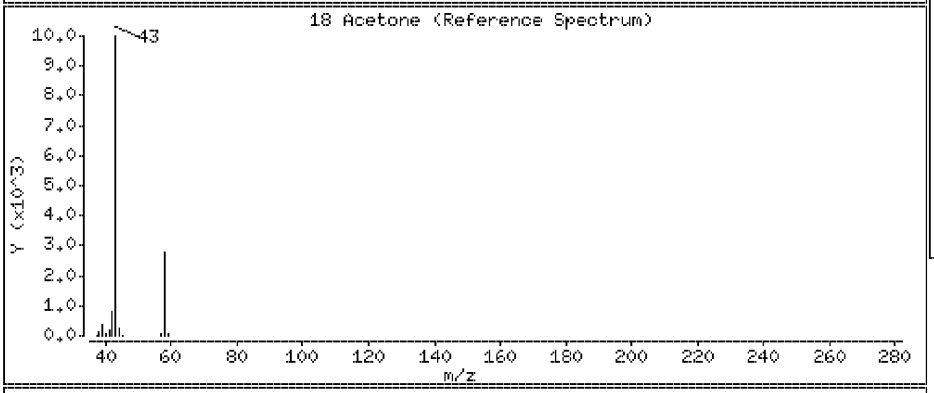
Concentration: 5.01 ppbv

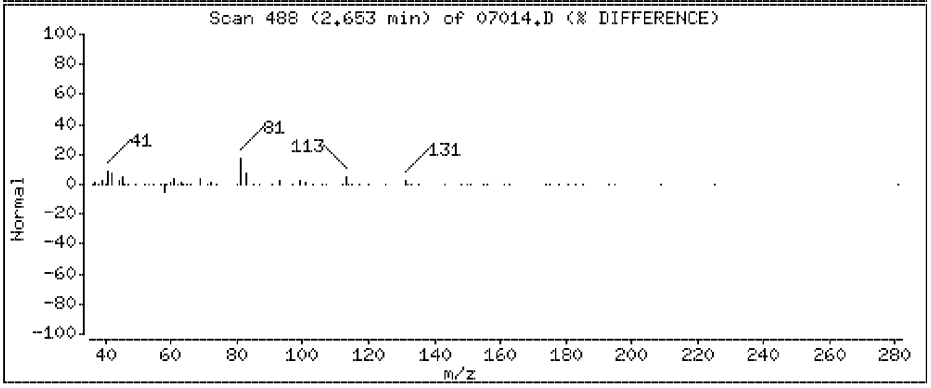












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

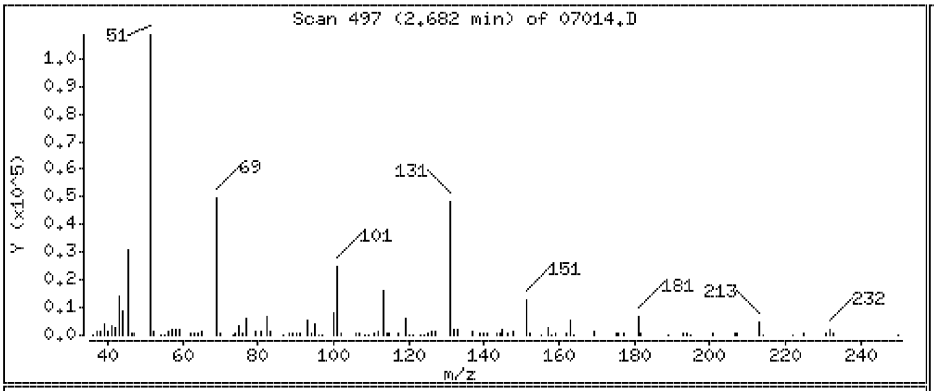
Operator: DR1

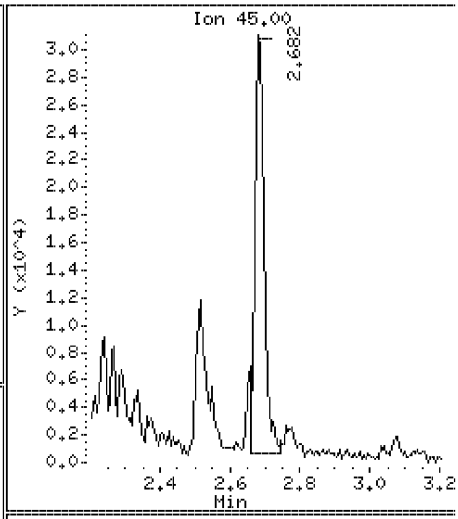
Column phase: J&W DB-5

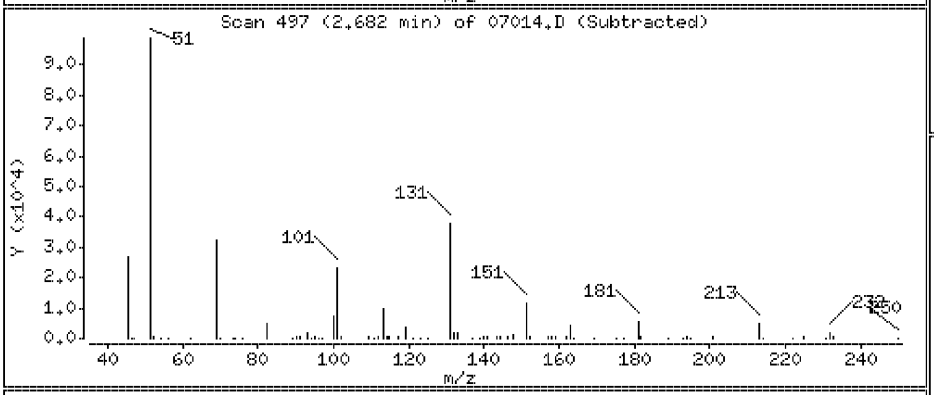
Column diameter: 0.32

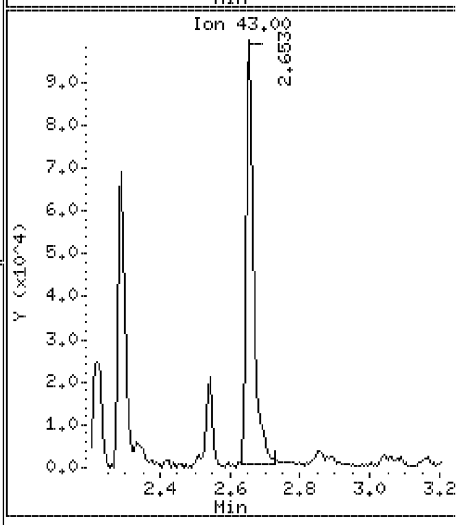
19 Isopropyl Alcohol

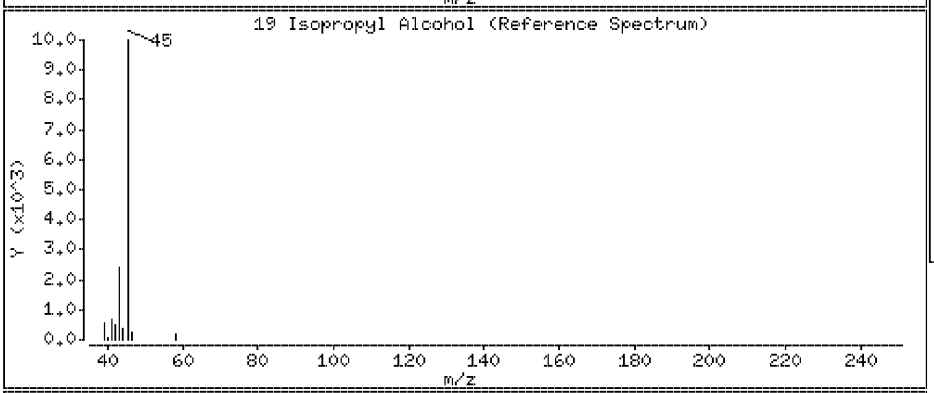
Concentration: 3.72 ppbv

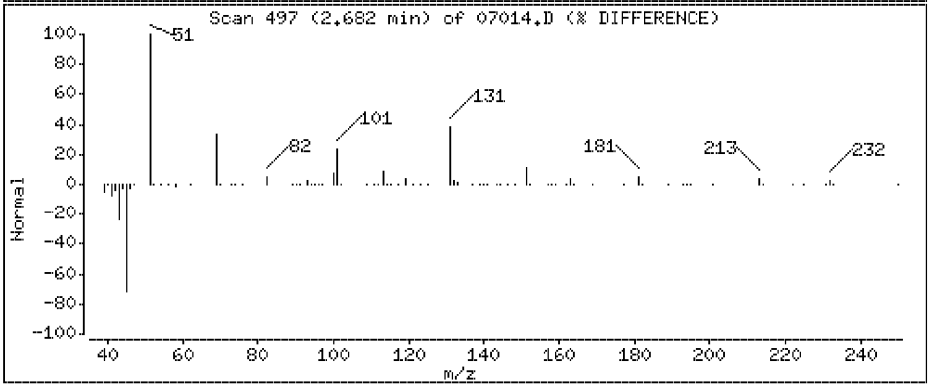












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

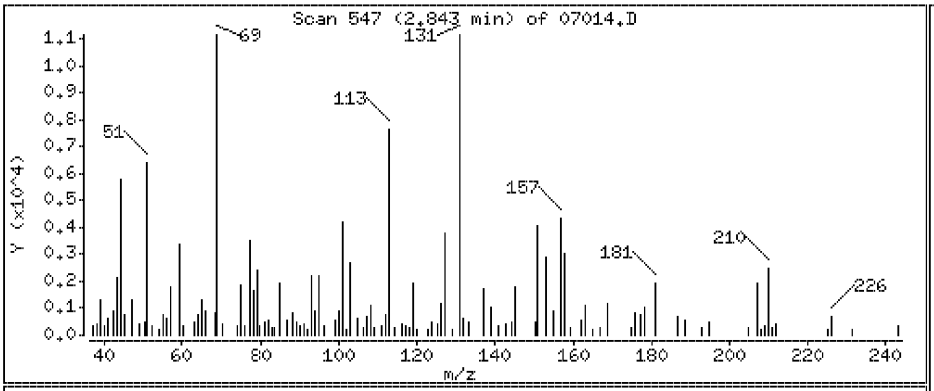
Operator: DR1

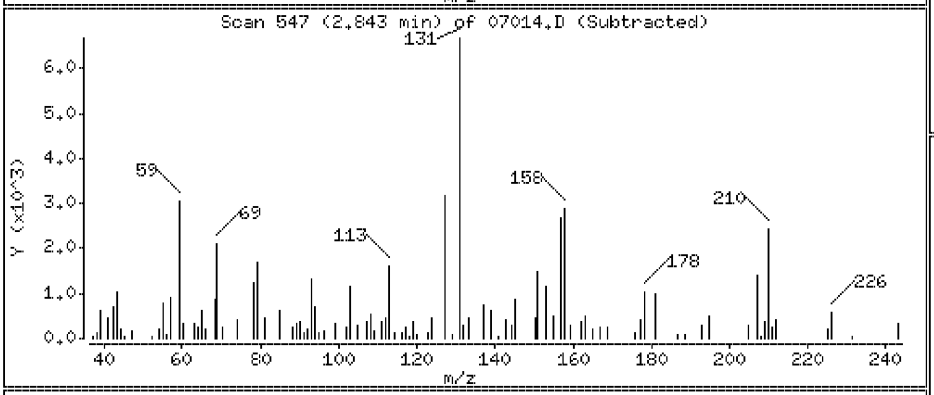
Column phase: J&W DB-5

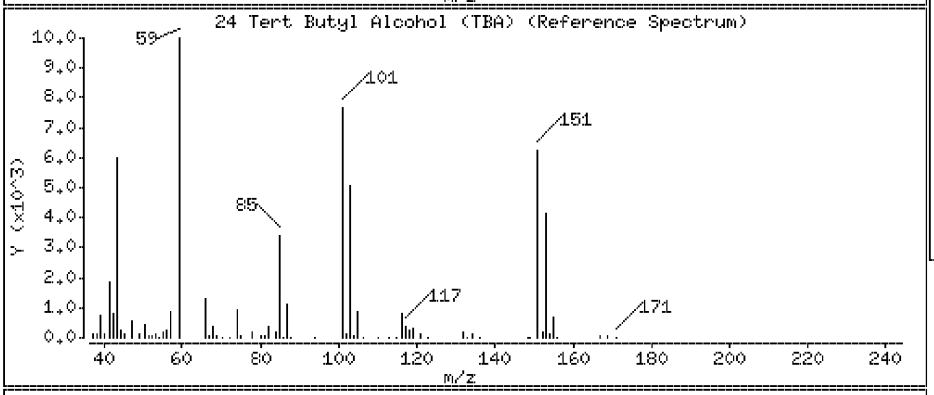
Column diameter: 0.32

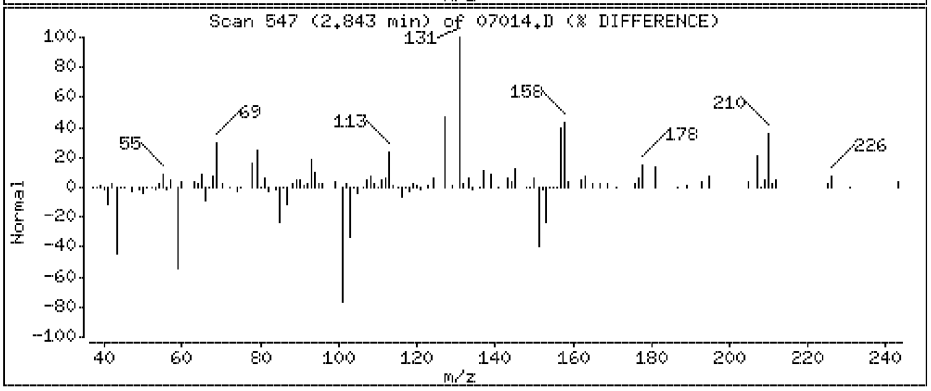
24 Tert Butyl Alcohol (TBA)

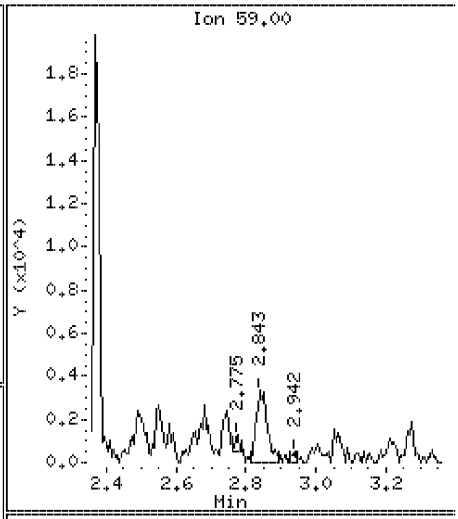
Concentration: 0.338 ppbv

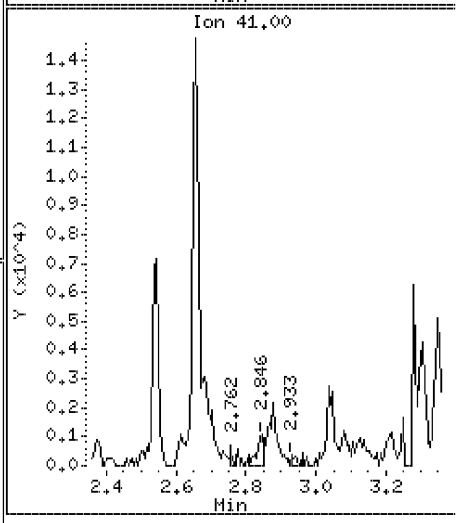












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

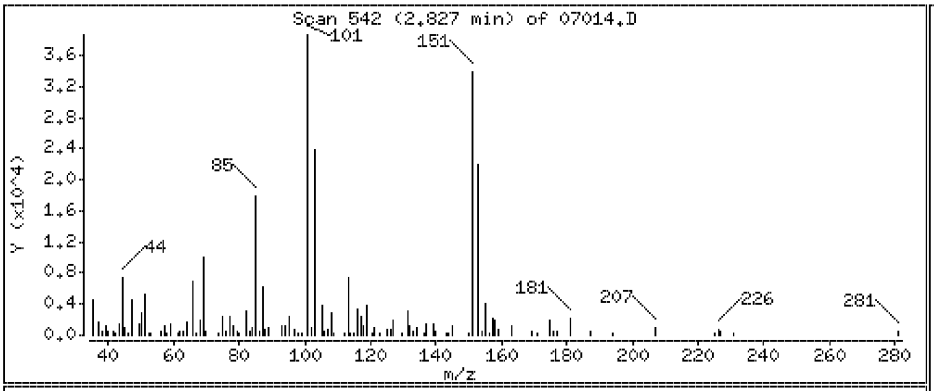
Operator: DR1

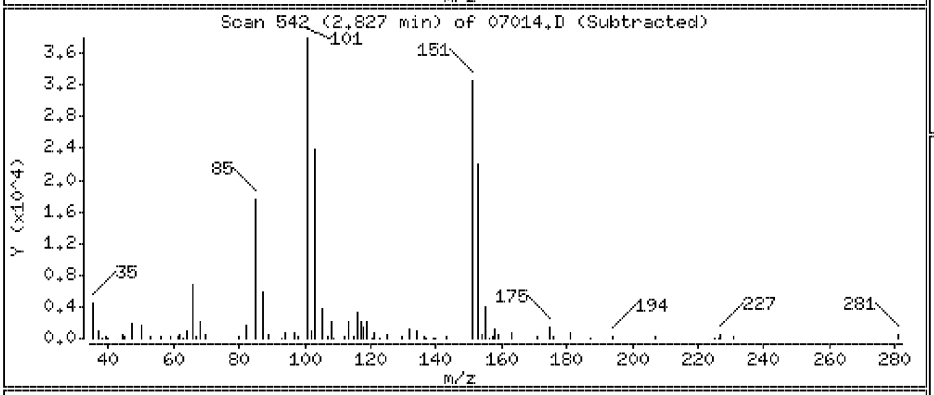
Column phase: J&W DB-5

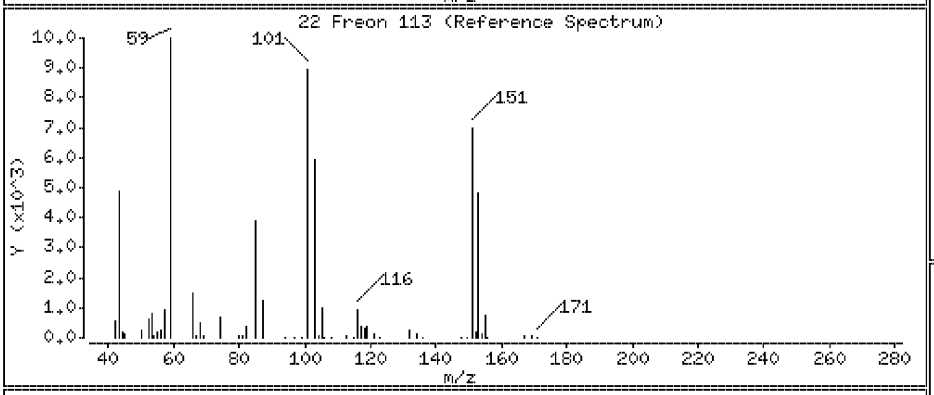
Column diameter: 0.32

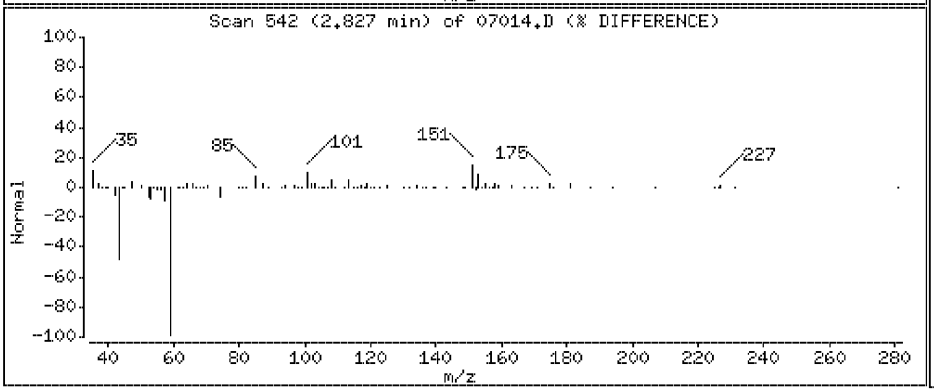
22 Freon 113

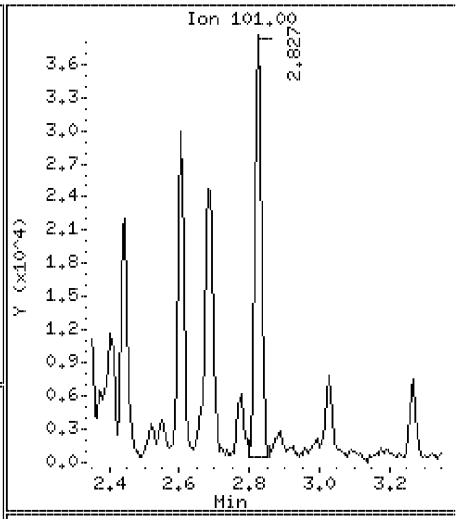
Concentration: 1.39 ppbv

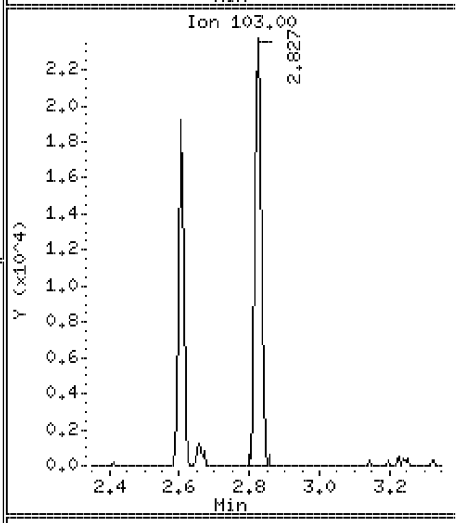


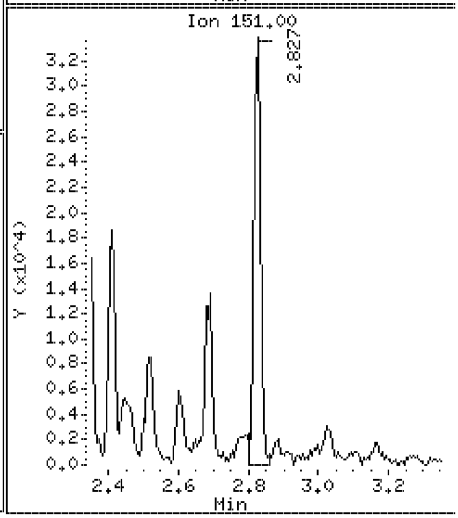












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

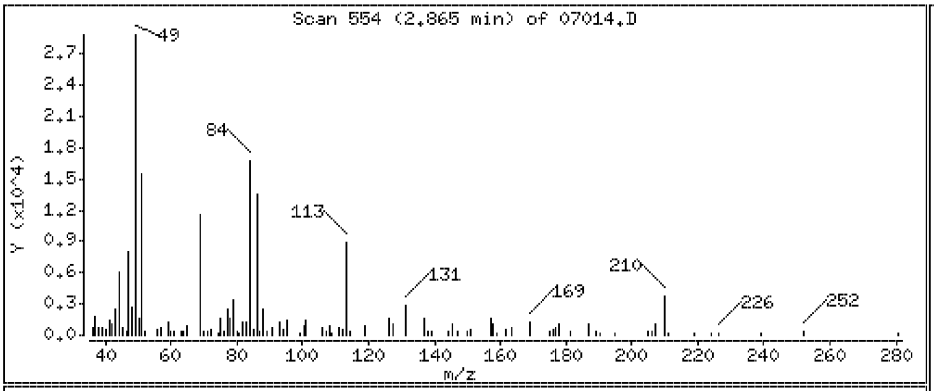
Operator: DR1

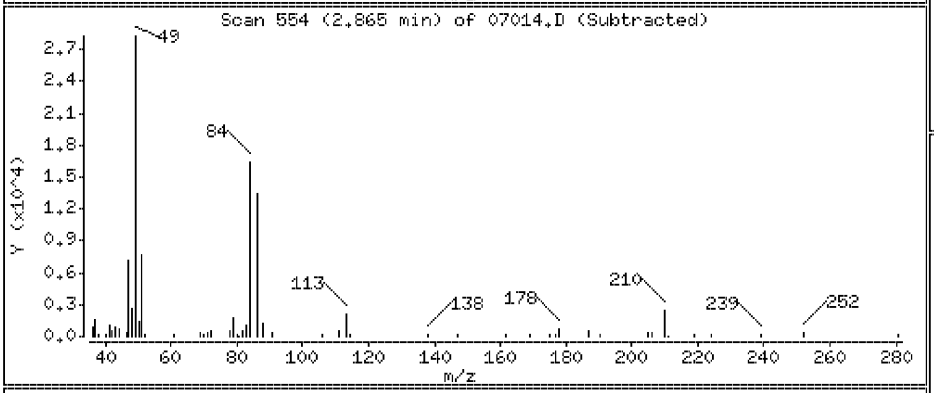
Column phase: J&W DB-5

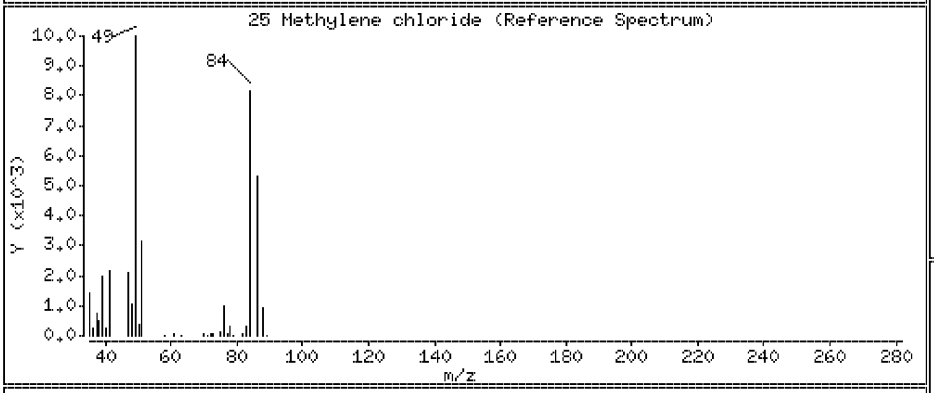
Column diameter: 0.32

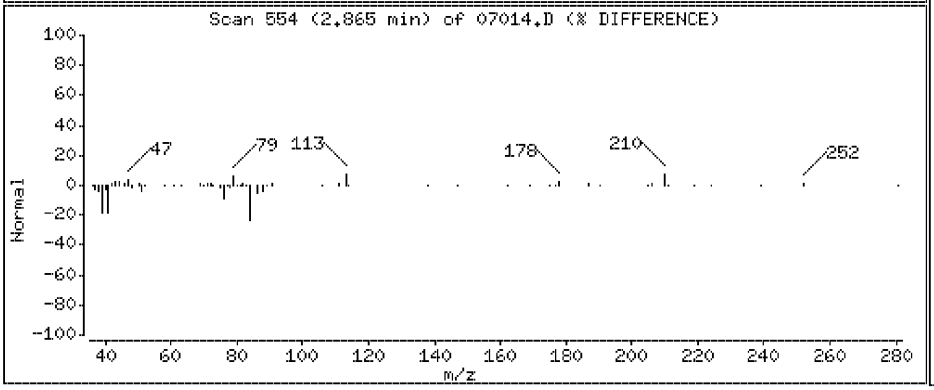
25 Methylene chloride

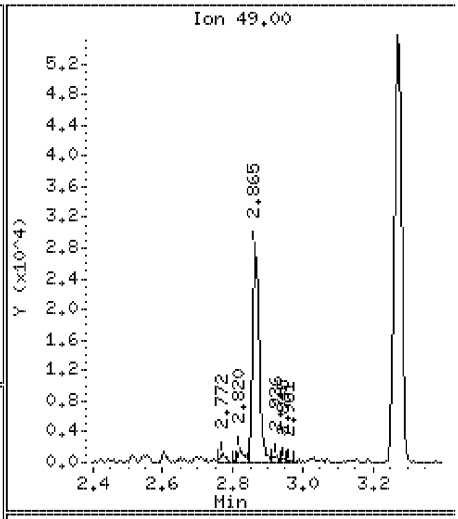
Concentration: 1.27 ppbv

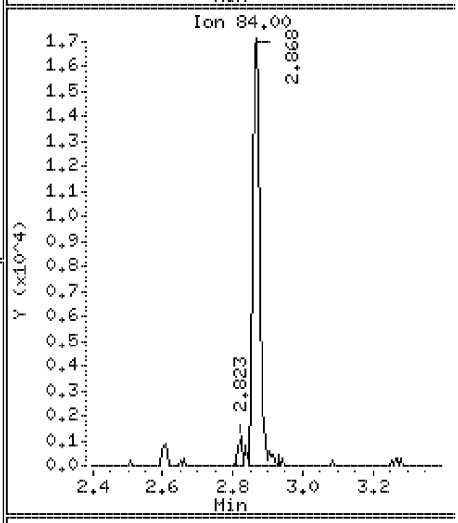


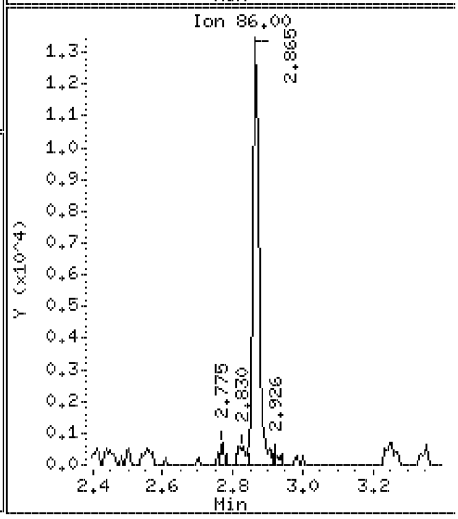












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

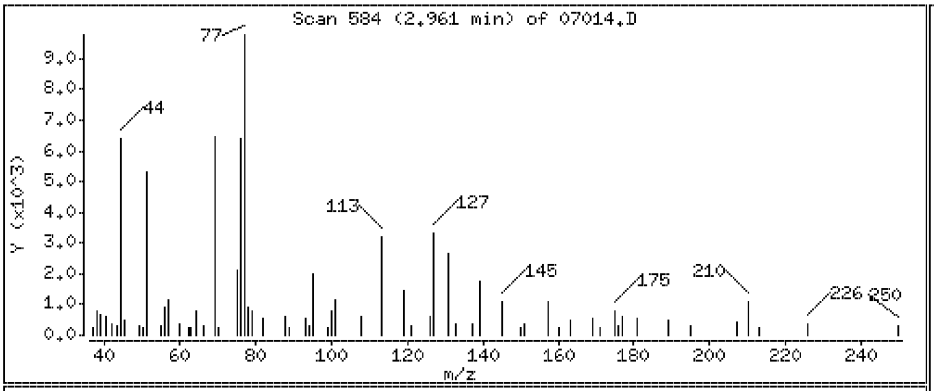
Operator: DR1

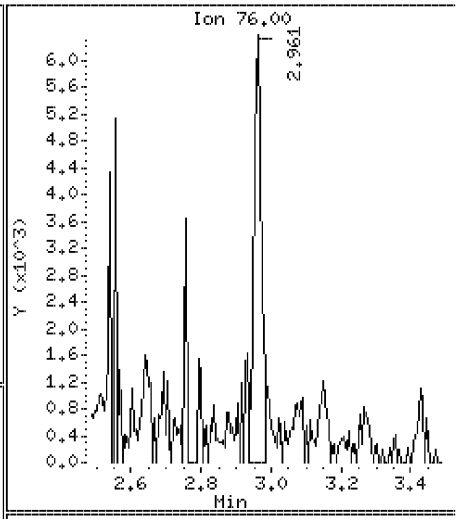
Column phase: J&W DB-5

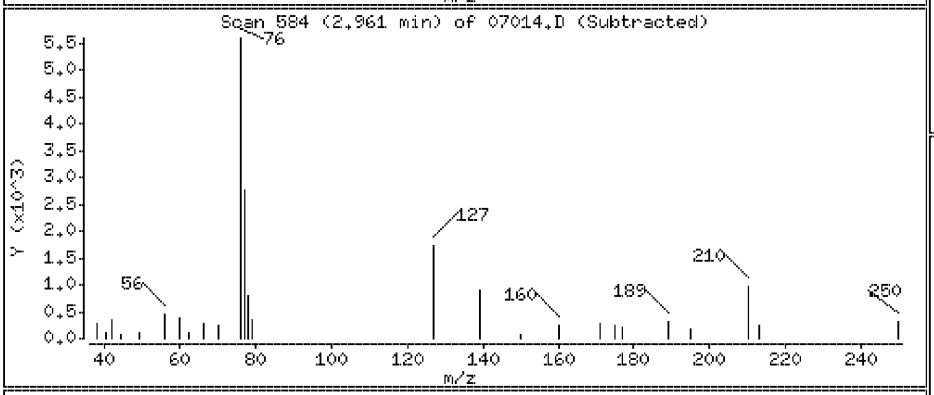
Column diameter: 0.32

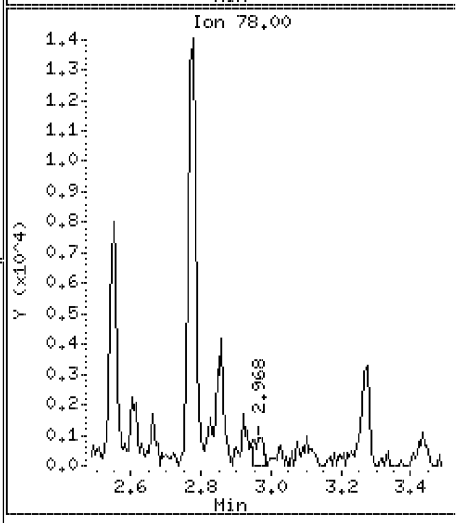
27 Carbon Disulfide

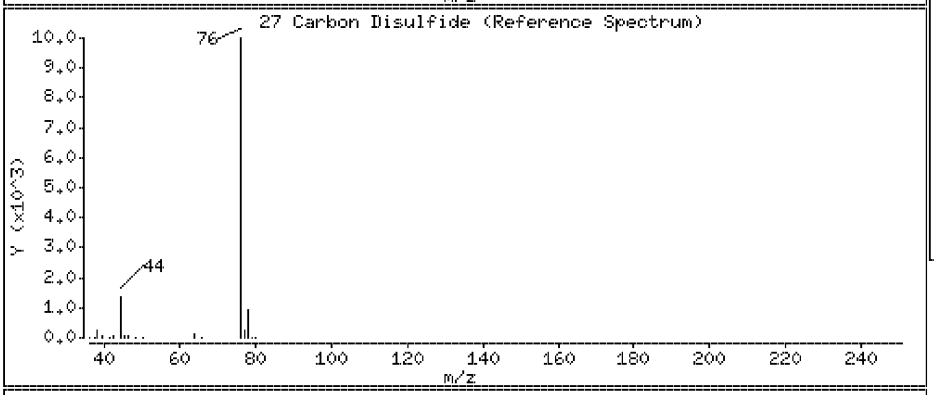
Concentration: 0.249 ppbv

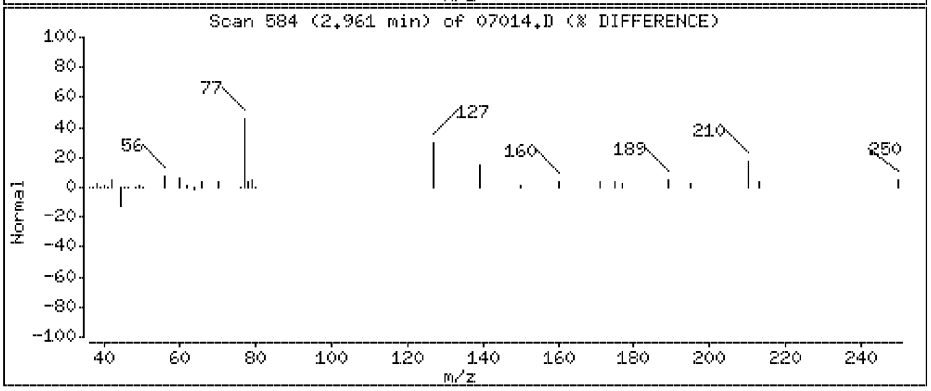












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

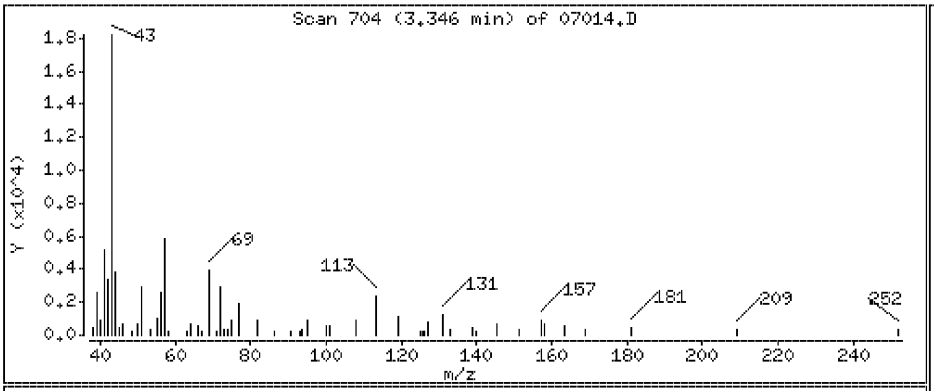
Operator: DR1

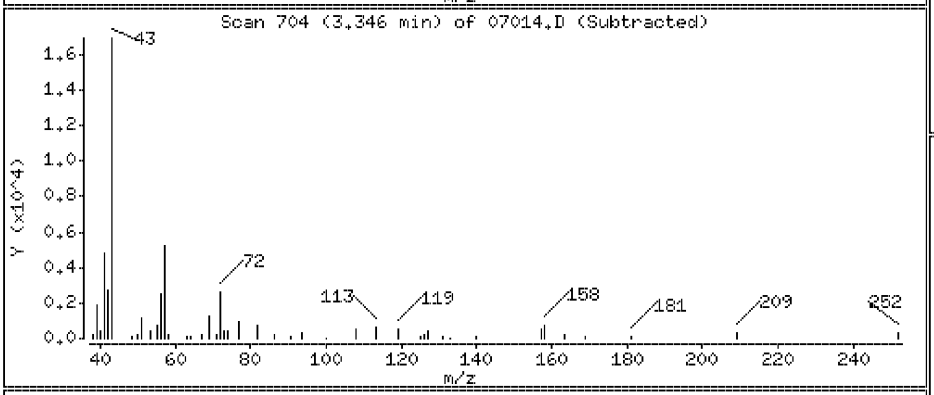
Column phase: J&W DB-5

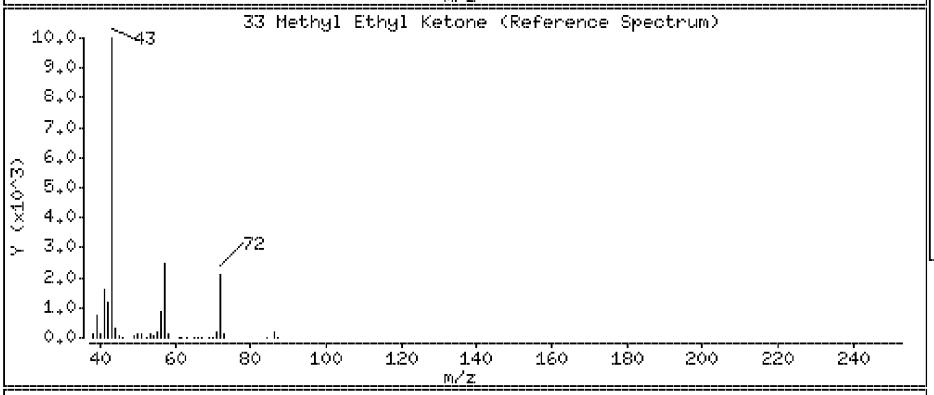
Column diameter: 0.32

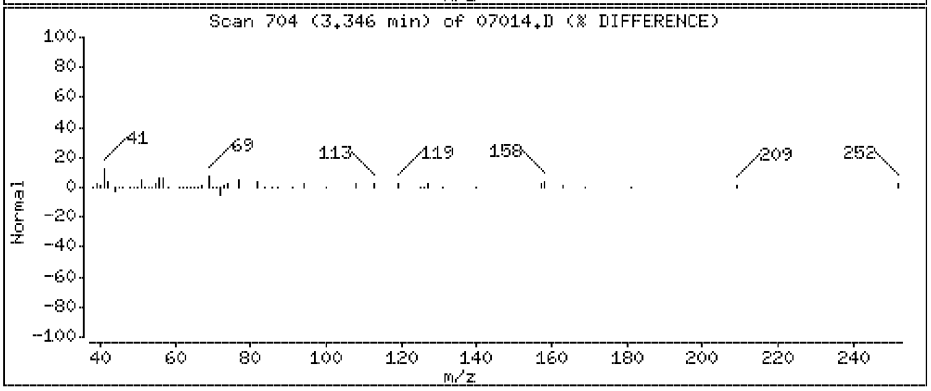
33 Methyl Ethyl Ketone

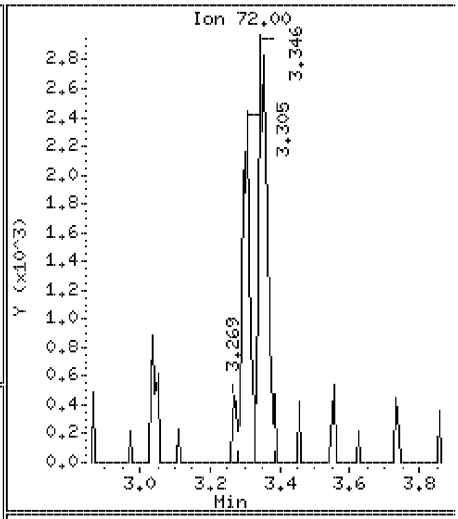
Concentration: 0.749 ppbv

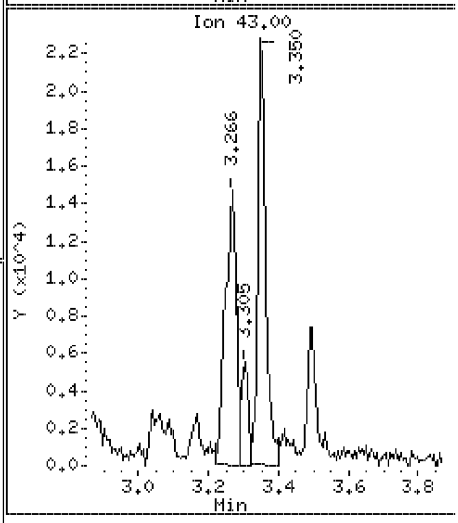












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

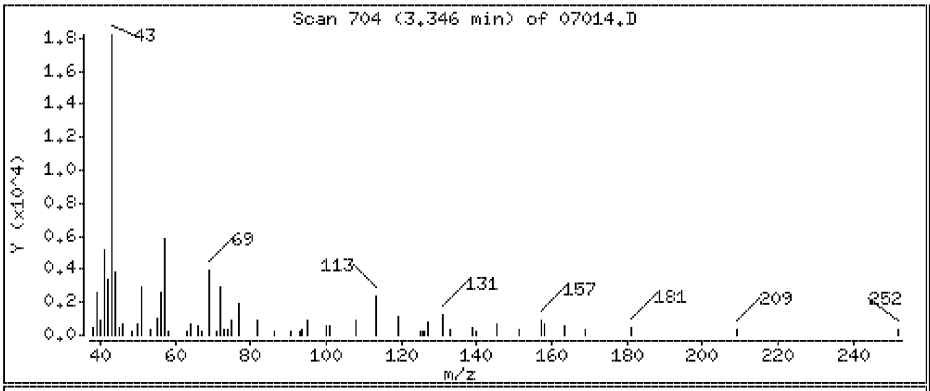
Operator: DR1

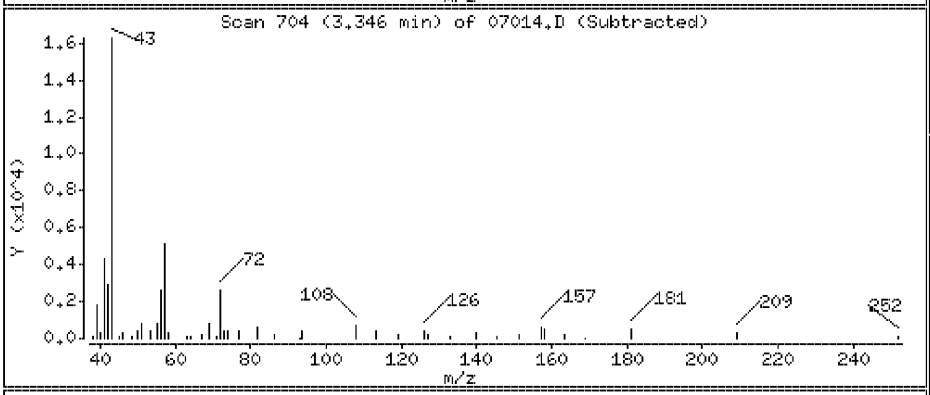
Column phase: J&W DB-5

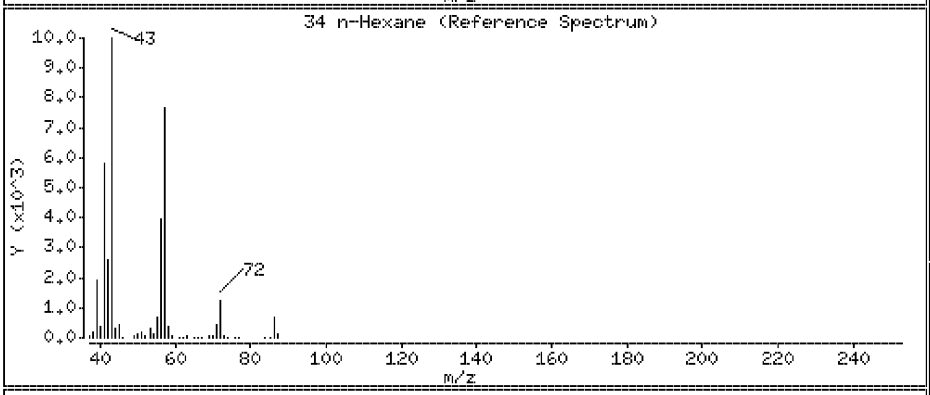
Column diameter: 0.32

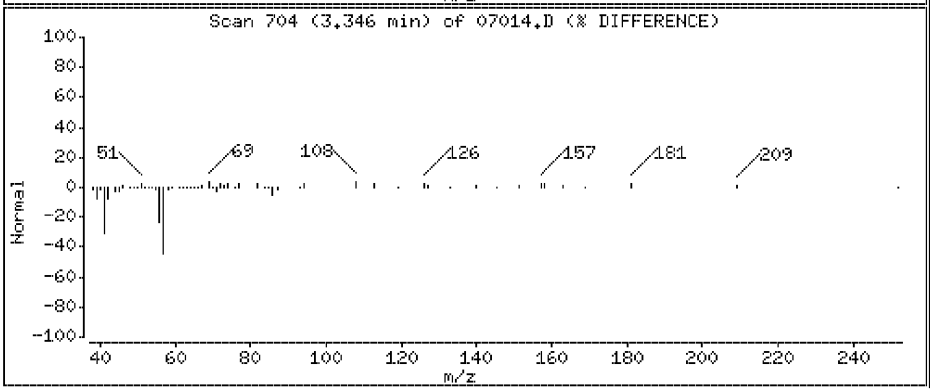
34 n-Hexane

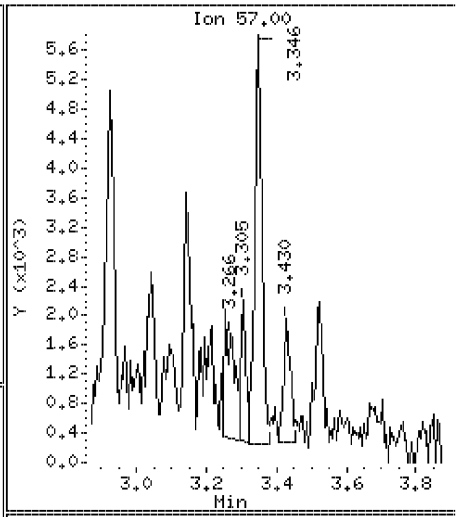
Concentration: 0.348 ppbv

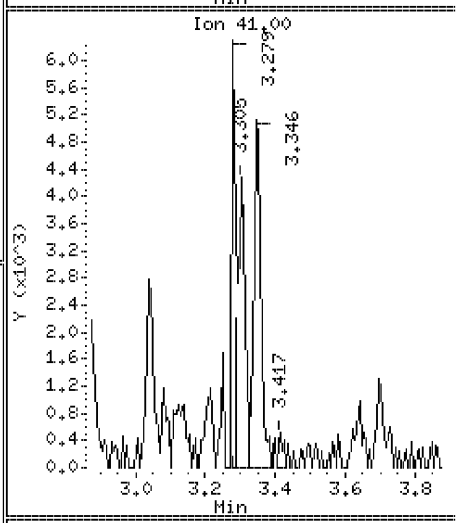


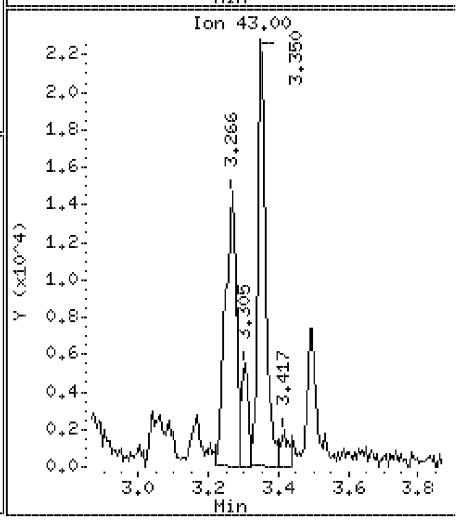












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

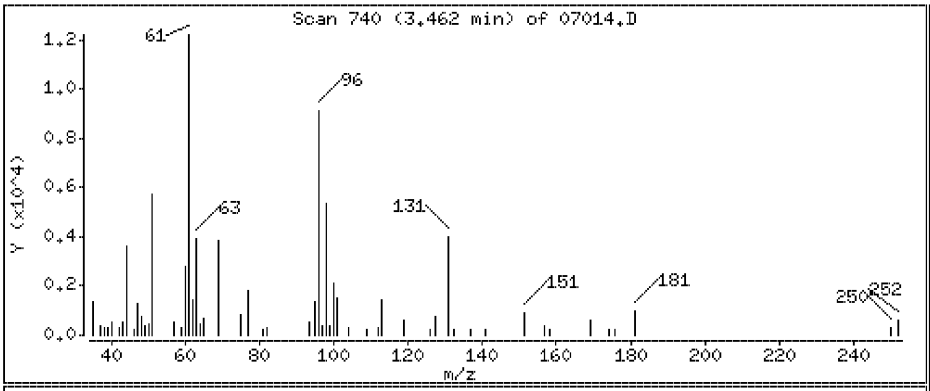
Operator: DR1

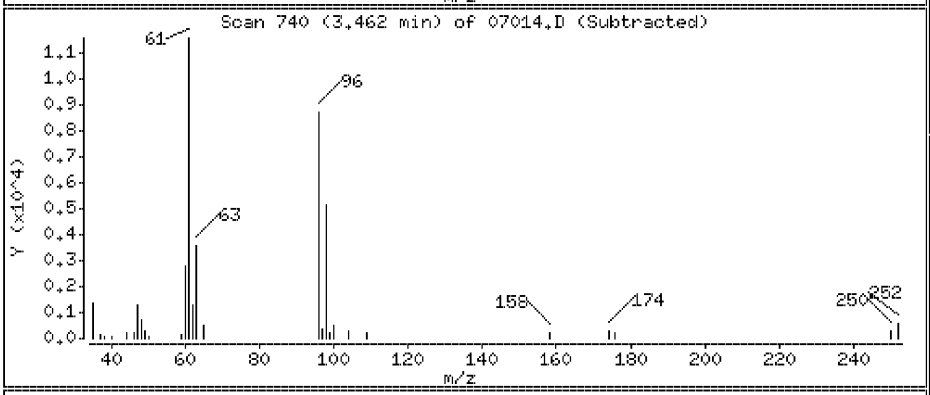
Column phase: J&W DB-5

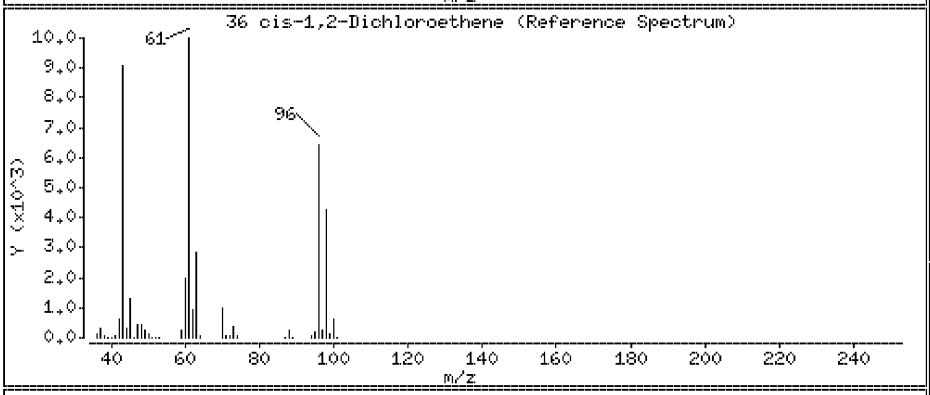
Column diameter: 0.32

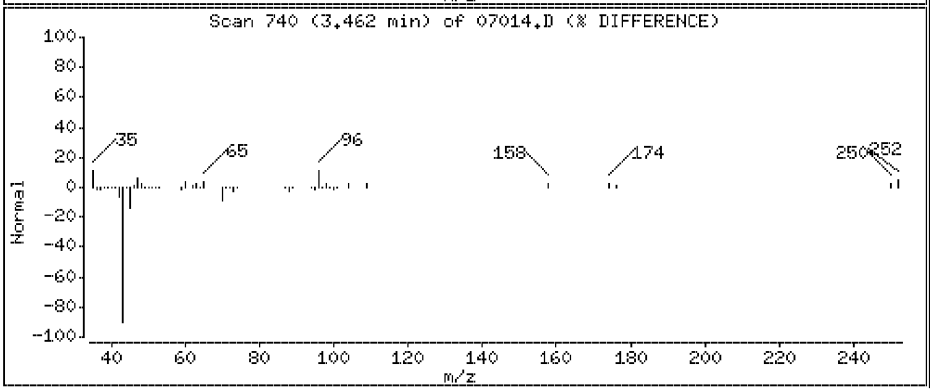
36 cis-1,2-Dichloroethene

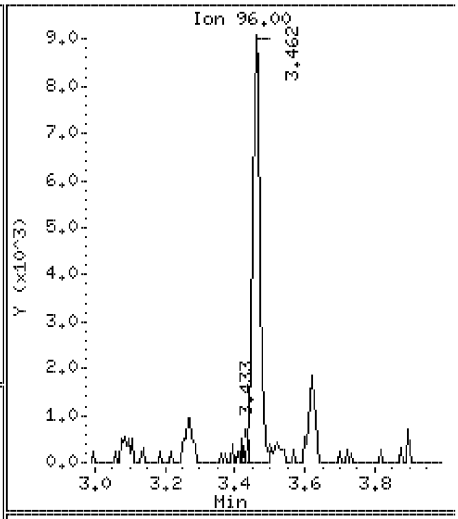
Concentration: 0.885 ppbv

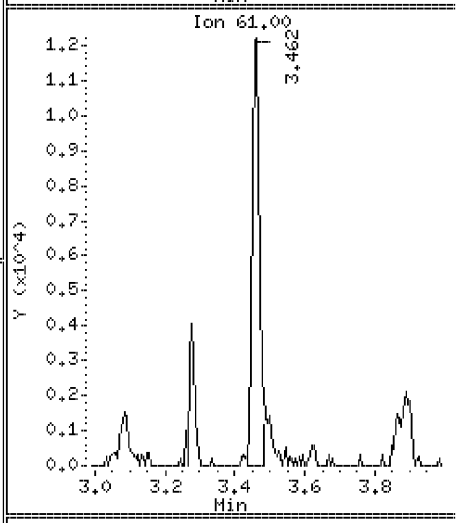


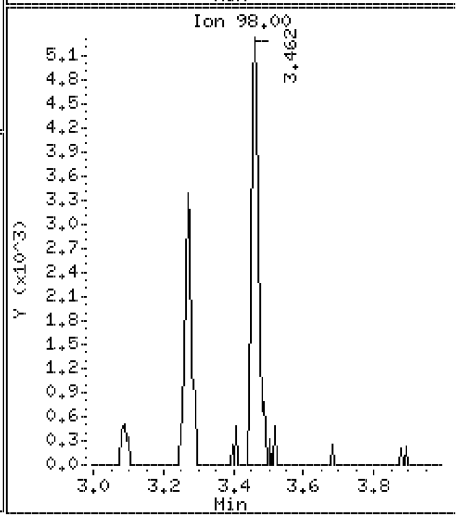












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

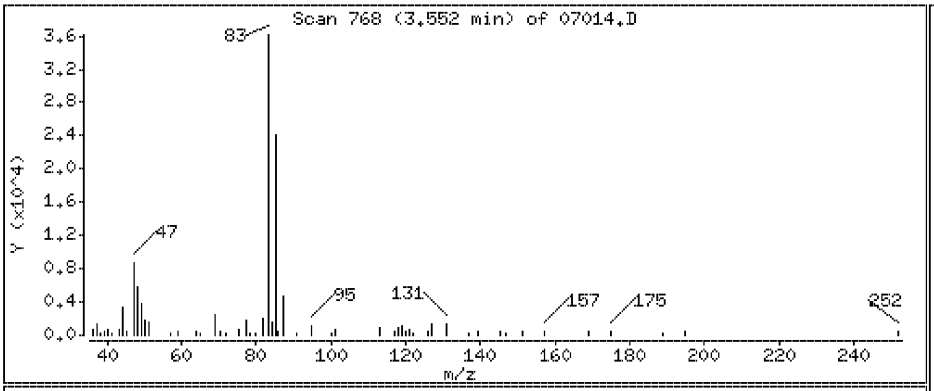
Operator: DR1

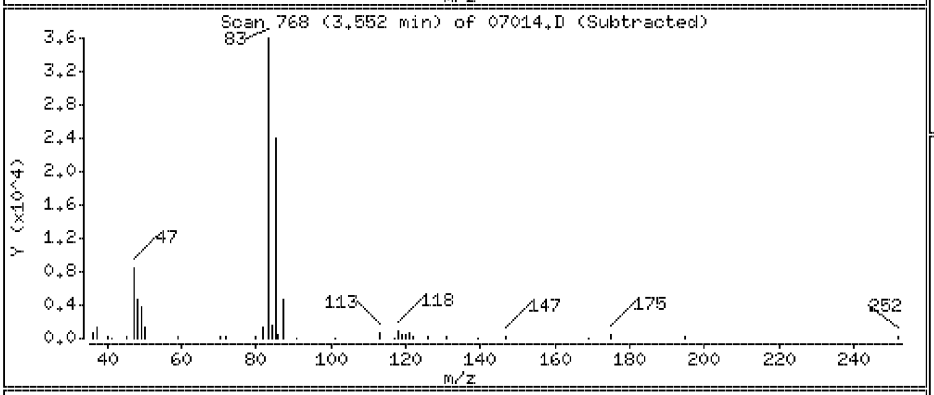
Column phase: J&W DB-5

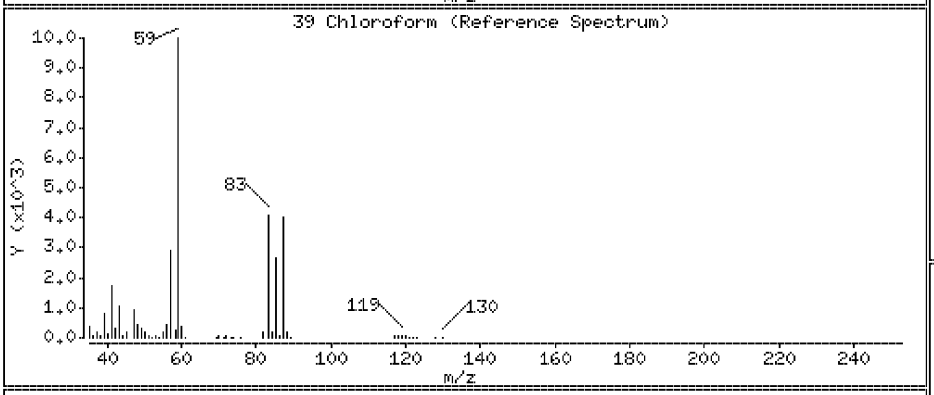
Column diameter: 0.32

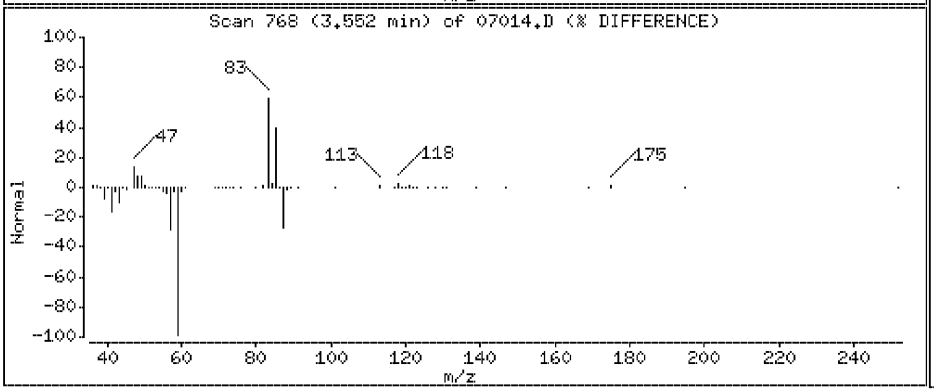
39 Chloroform

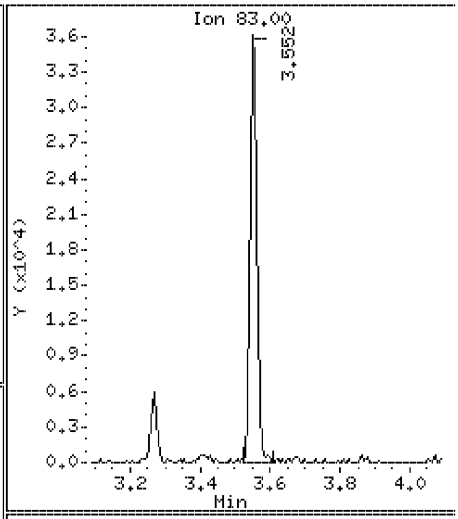
Concentration: 1.37 ppbv

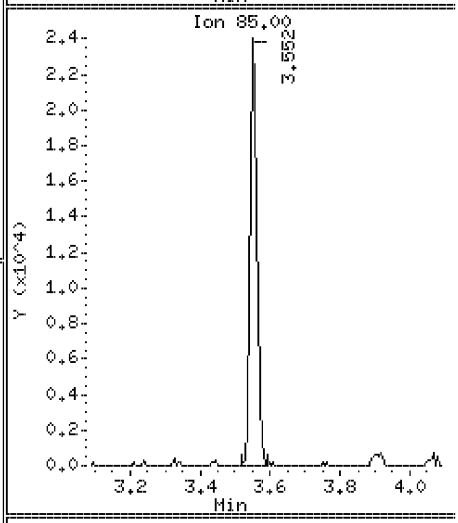


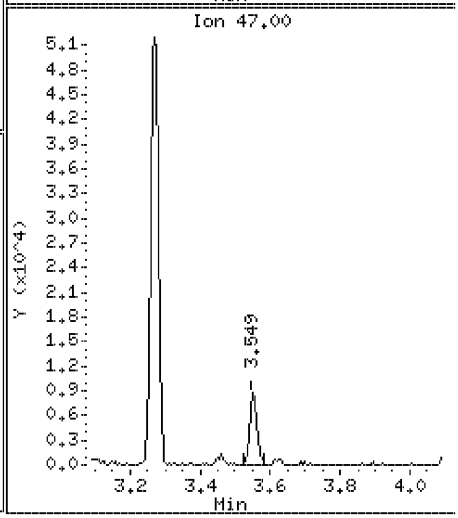












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

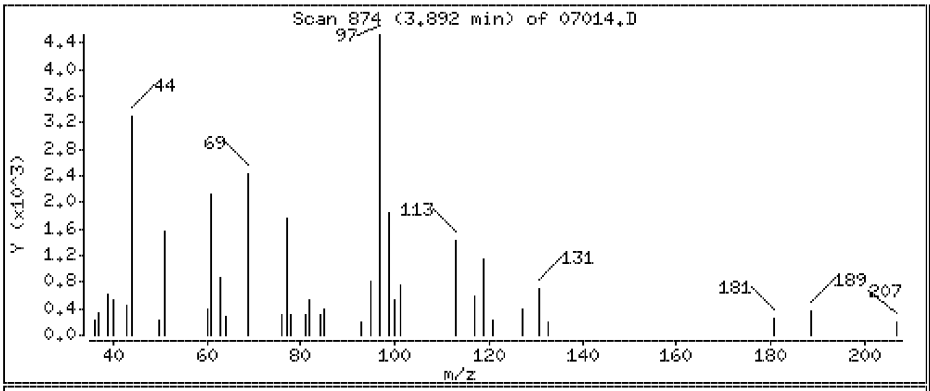
Operator: DR1

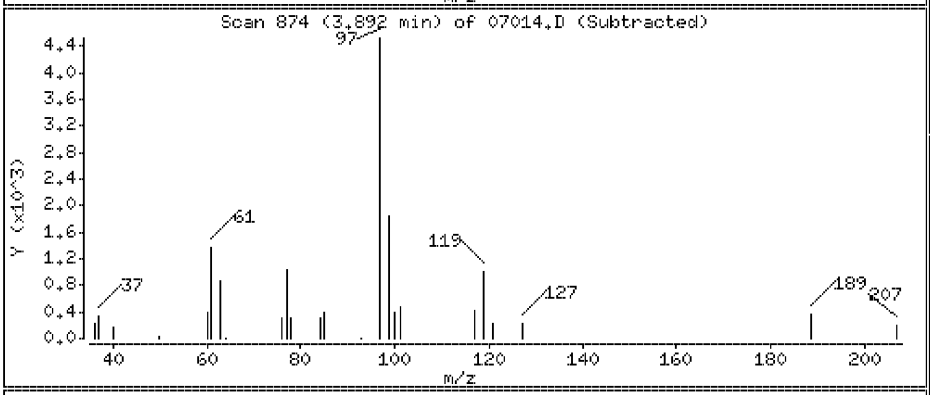
Column phase: J&W DB-5

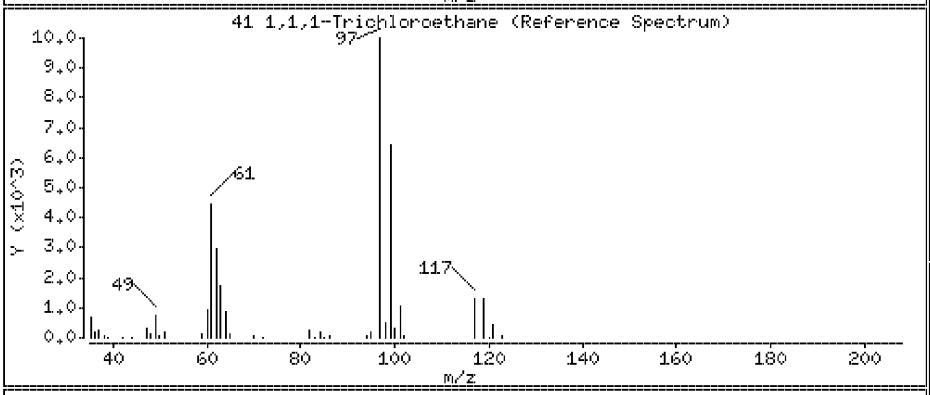
Column diameter: 0.32

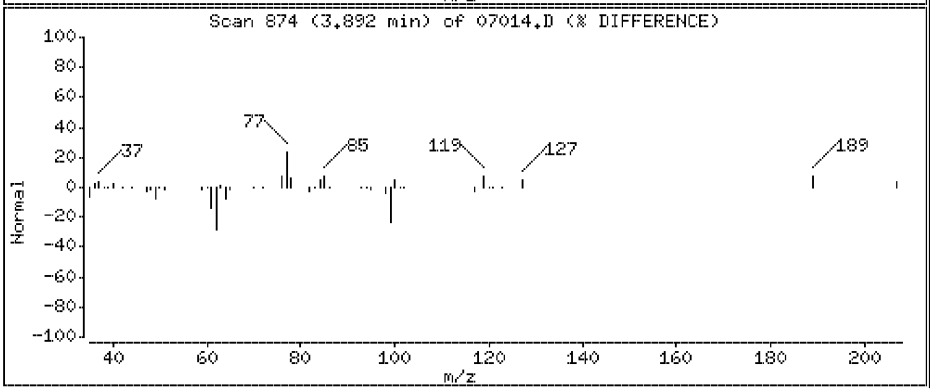
41 1,1,1-Trichloroethane

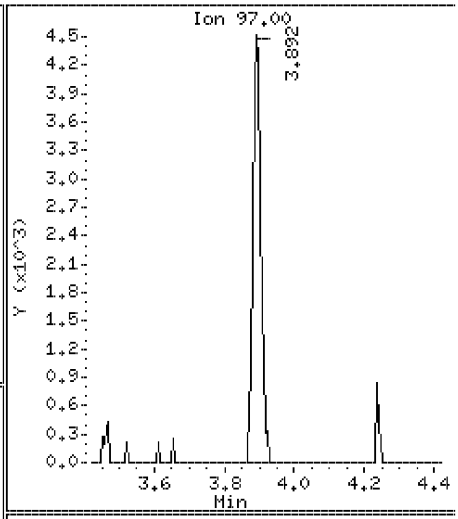
Concentration: 0.194 ppbv

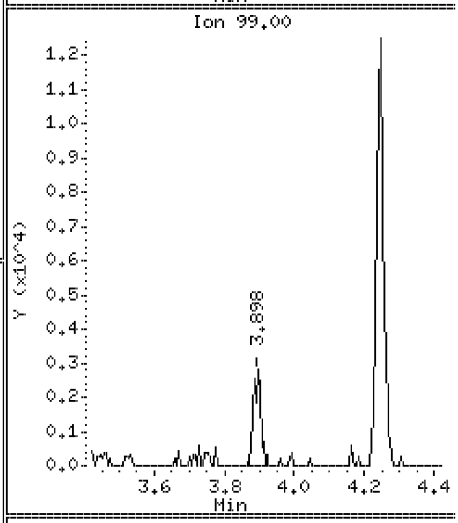


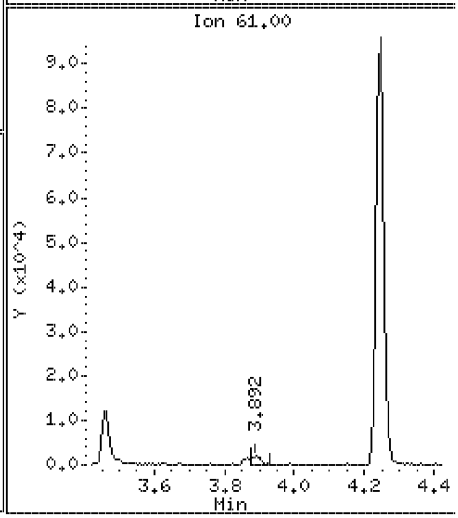












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

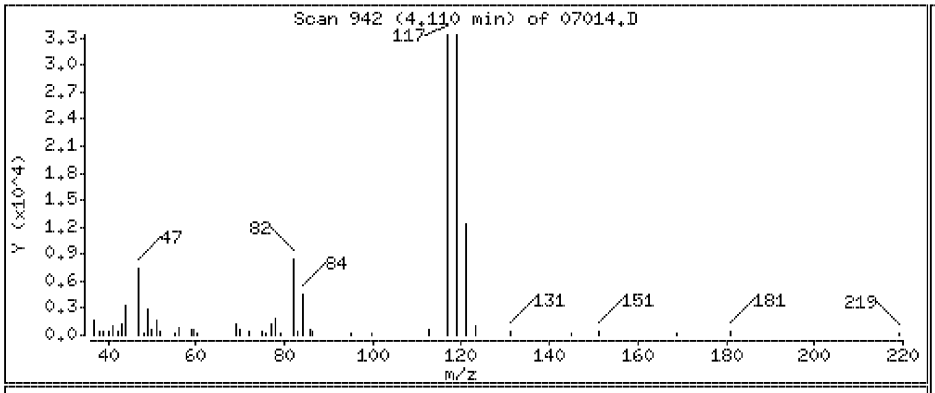
Operator: DR1

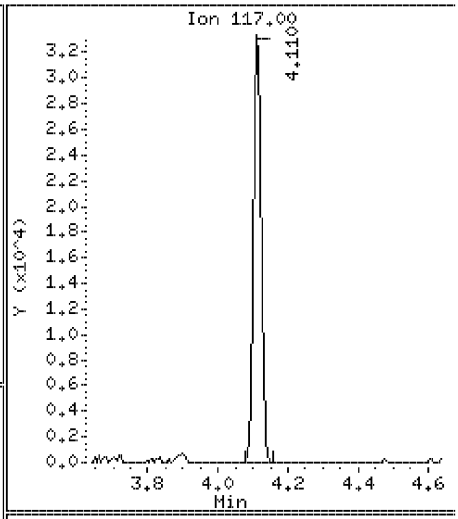
Column phase: J&W DB-5

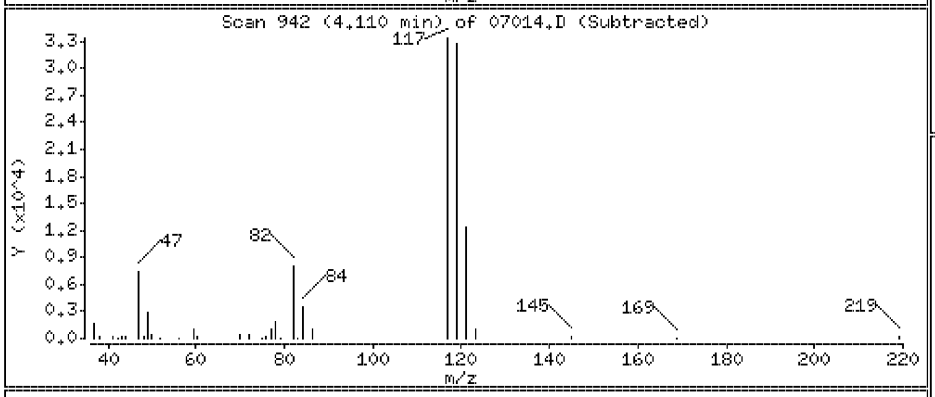
Column diameter: 0.32

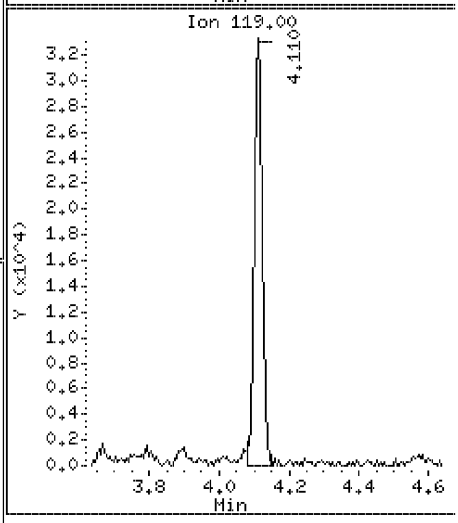
45 Carbon tetrachloride

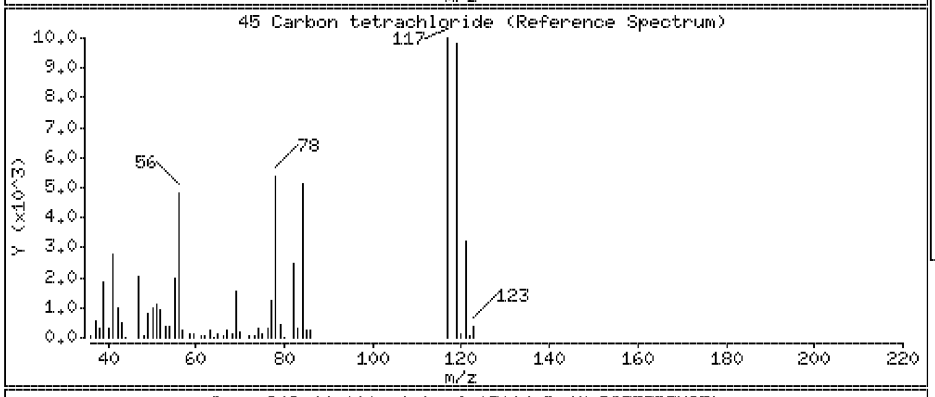
Concentration: 1.49 ppbv

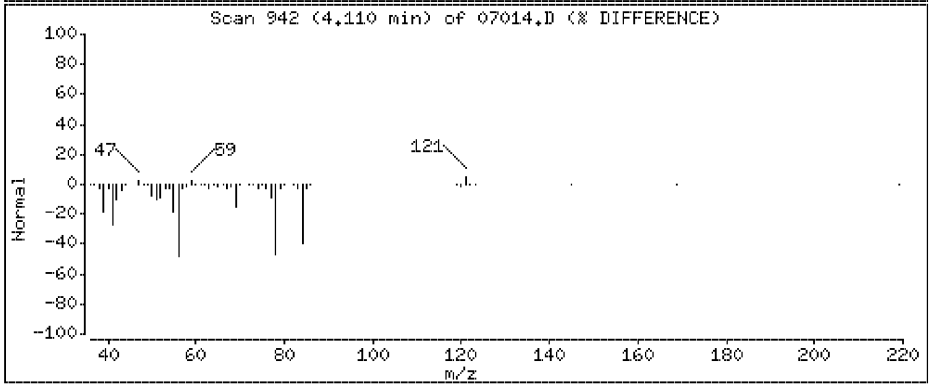












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

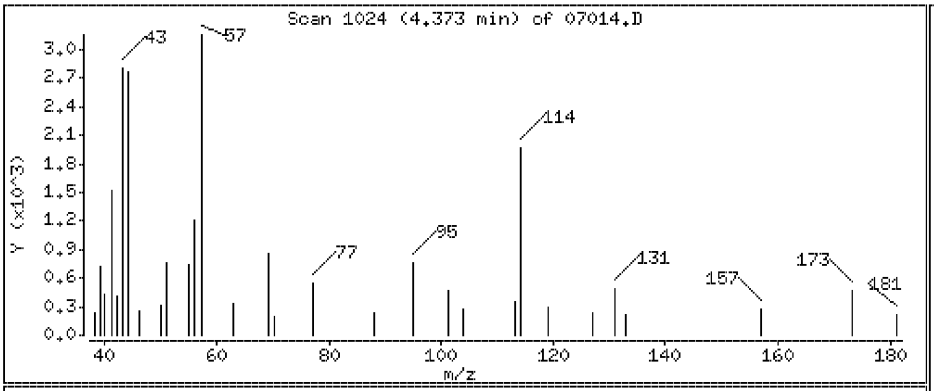
Operator: DR1

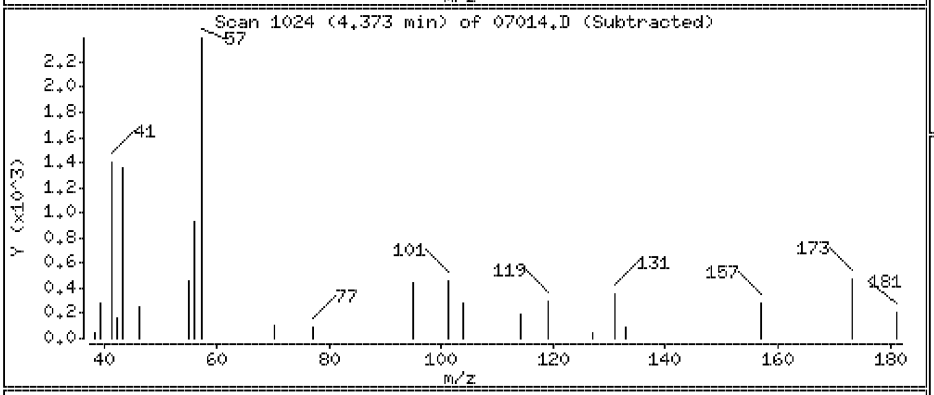
Column phase: J&W DB-5

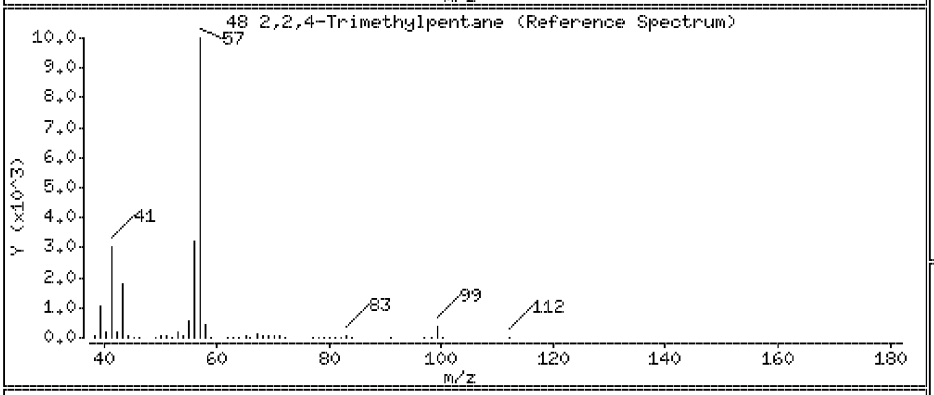
Column diameter: 0.32

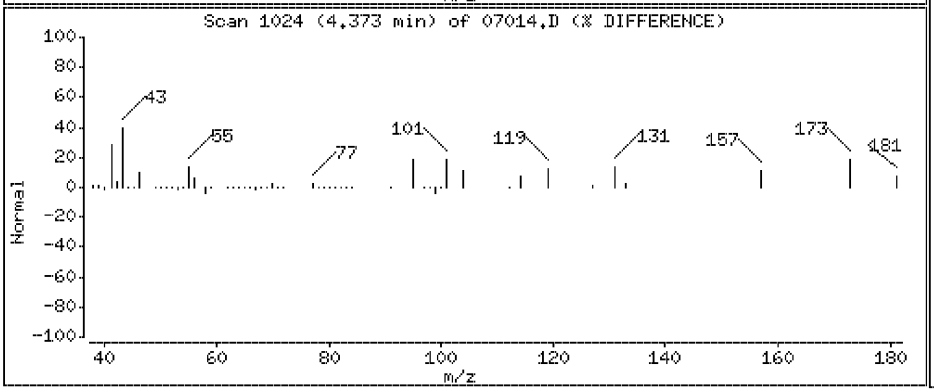
48 2,2,4-Trimethylpentane

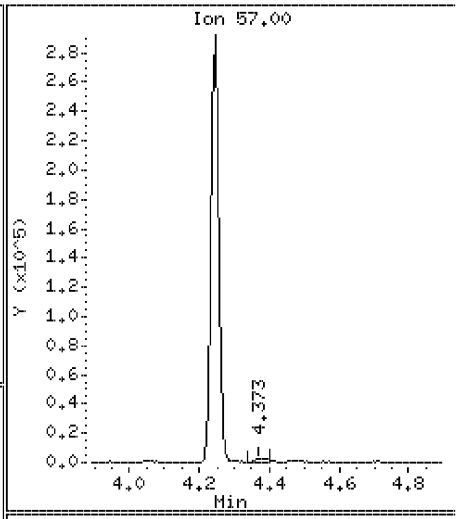
Concentration: 278 ppbv

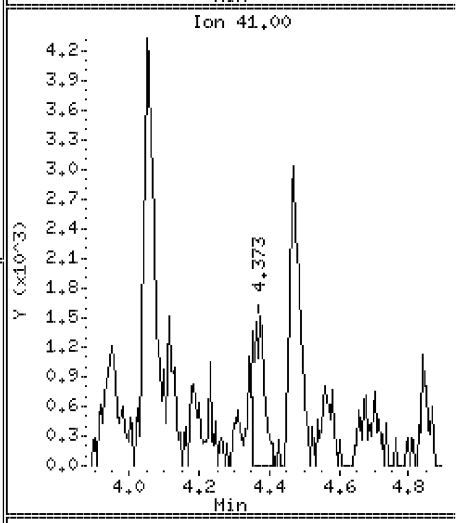


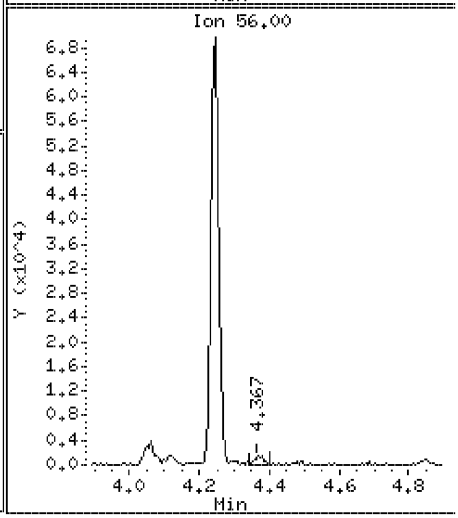












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

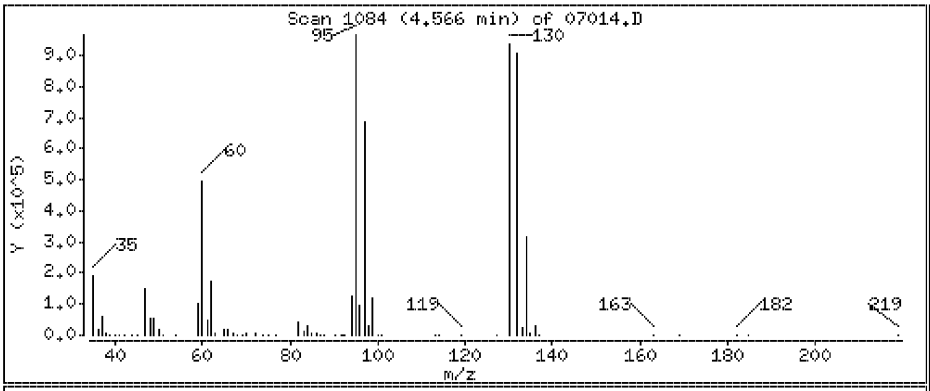
Operator: DR1

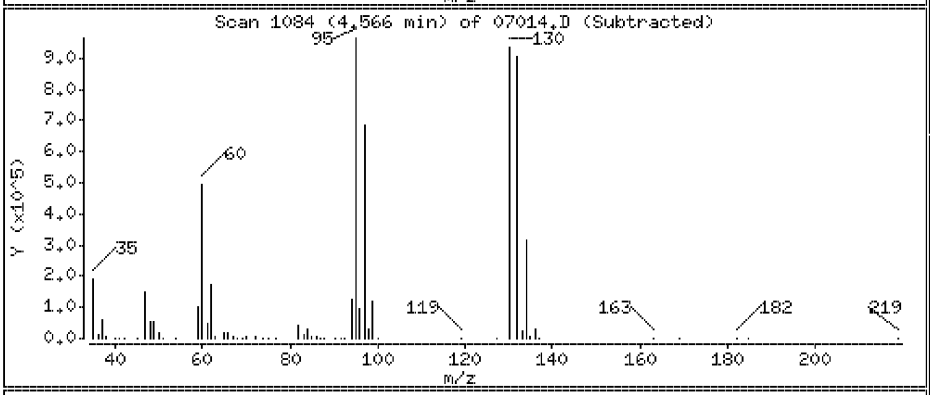
Column phase: J&W DB-5

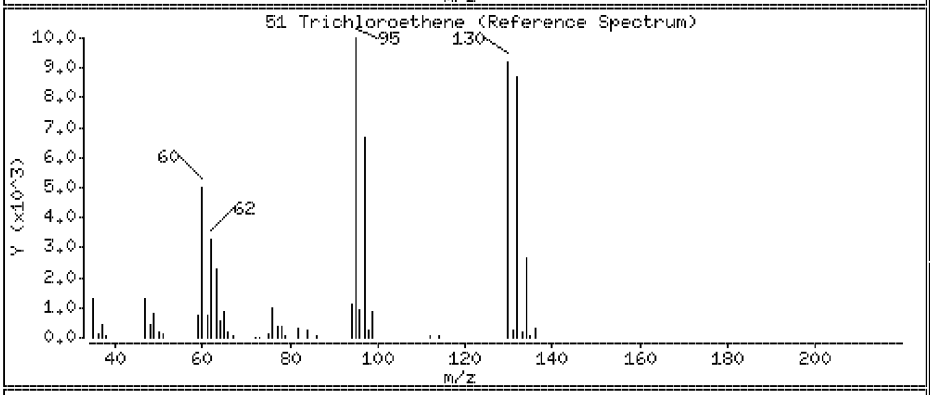
Column diameter: 0.32

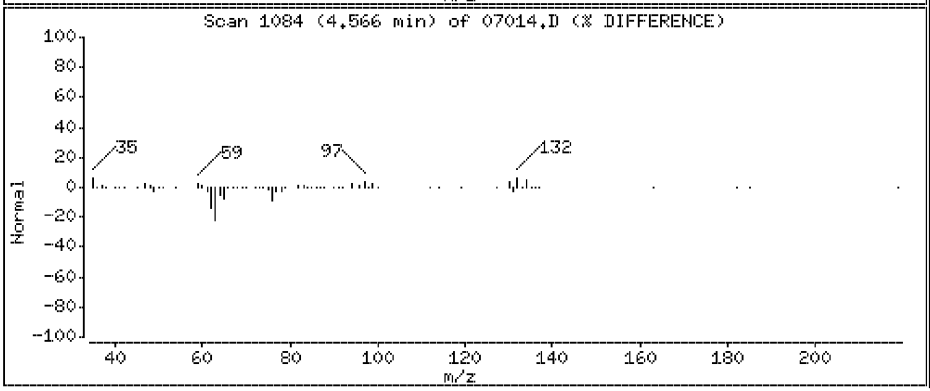
51 Trichloroethene

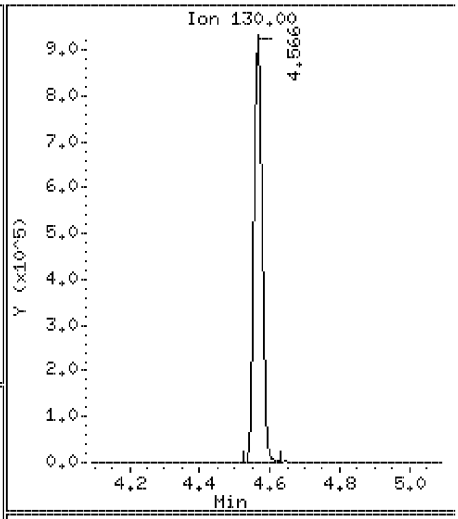
Concentration: 65.0 ppbv

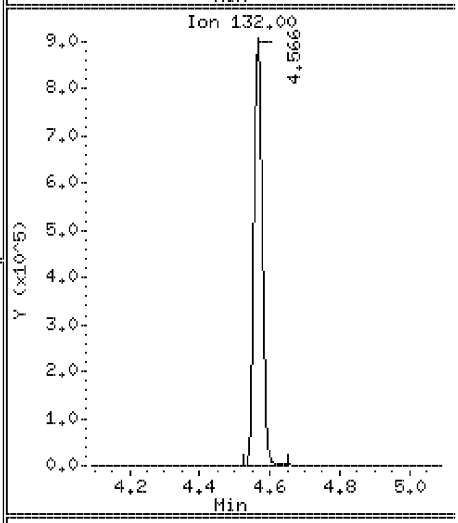


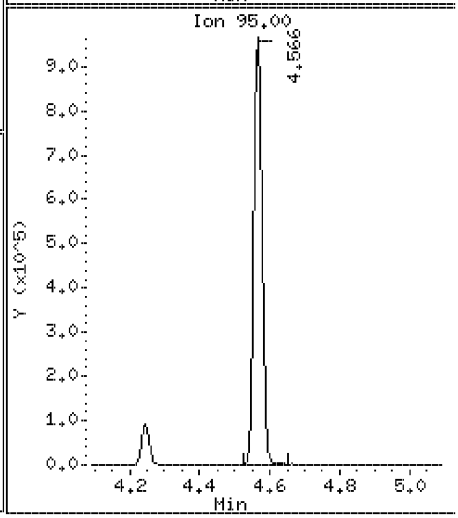












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

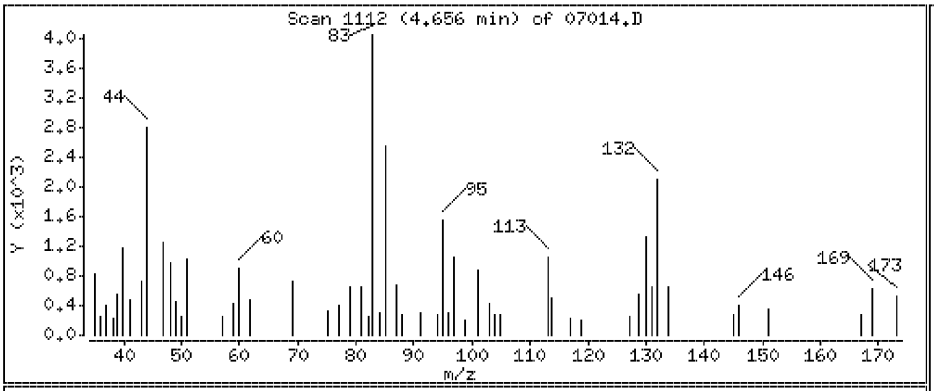
Operator: DR1

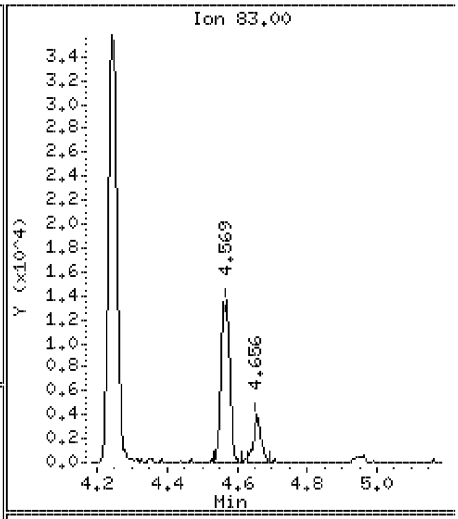
Column phase: J&W DB-5

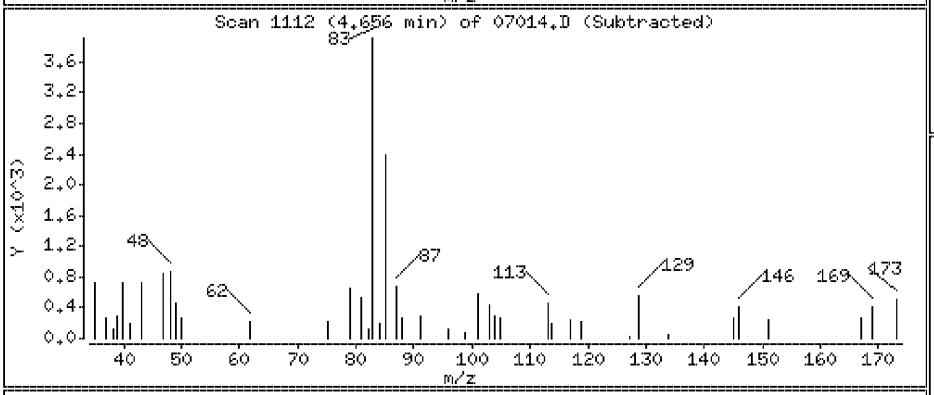
Column diameter: 0.32

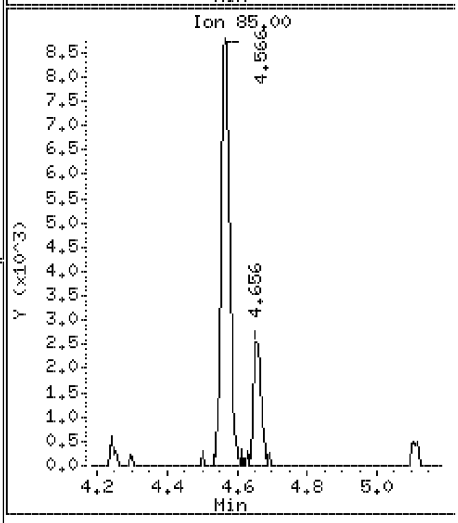
53 Bromodichloromethane

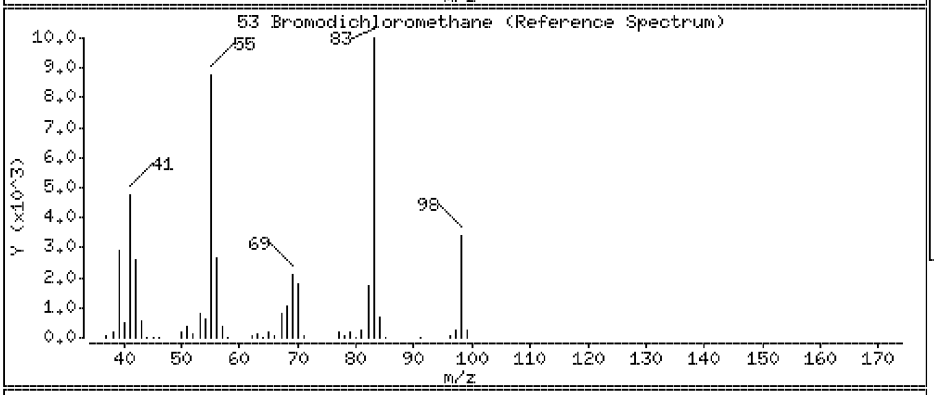
Concentration: 0.141 ppbv

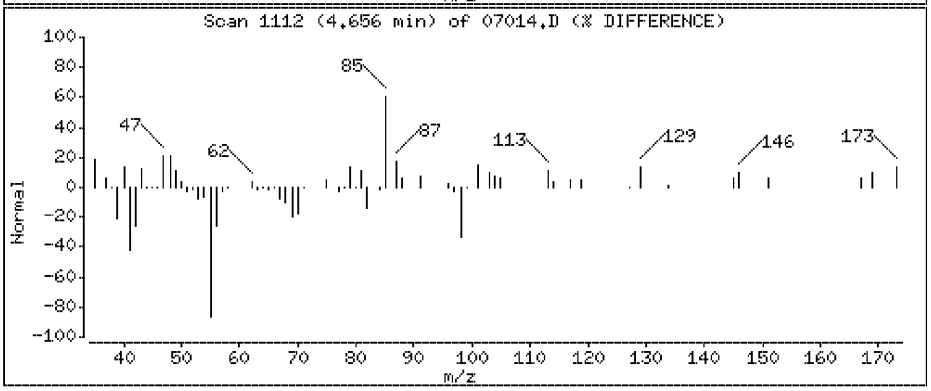












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

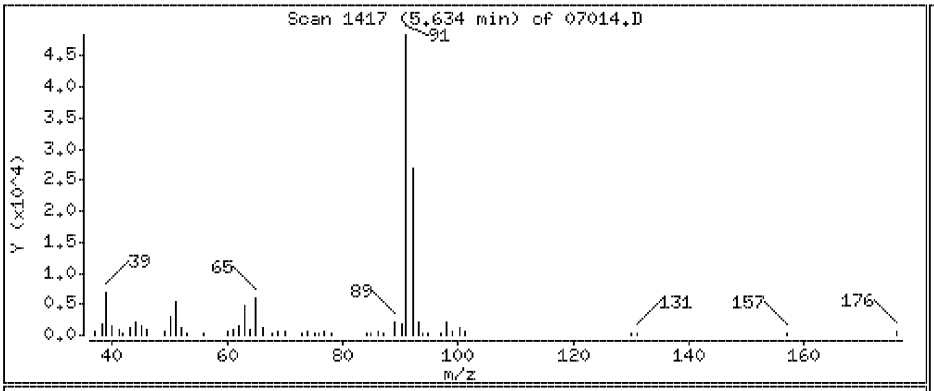
Operator: DR1

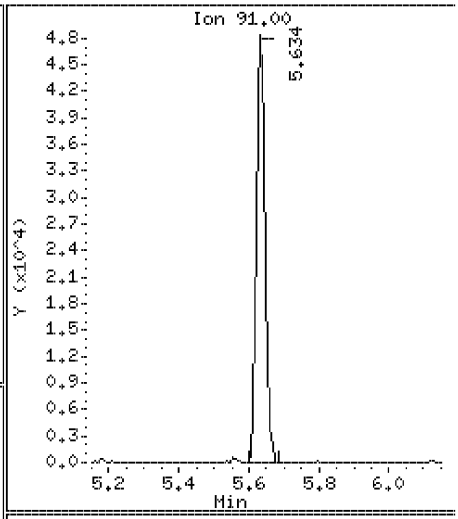
Column phase: J&W DB-5

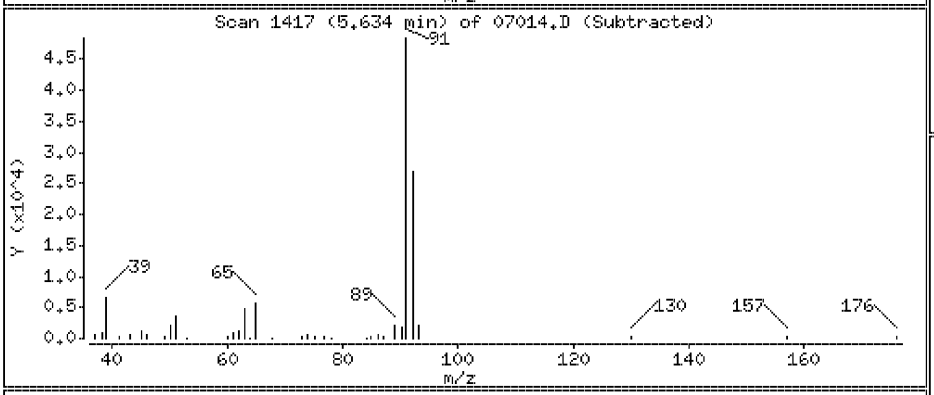
Column diameter: 0.32

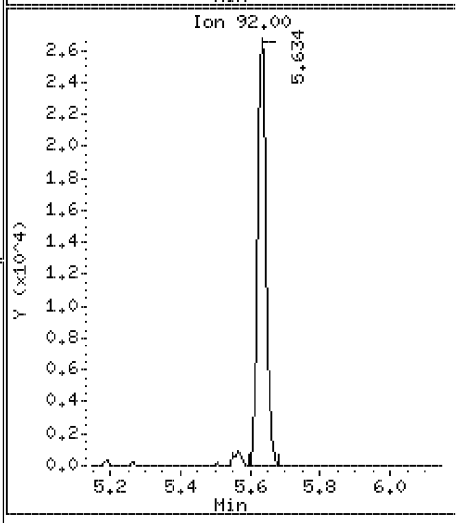
60 Toluene

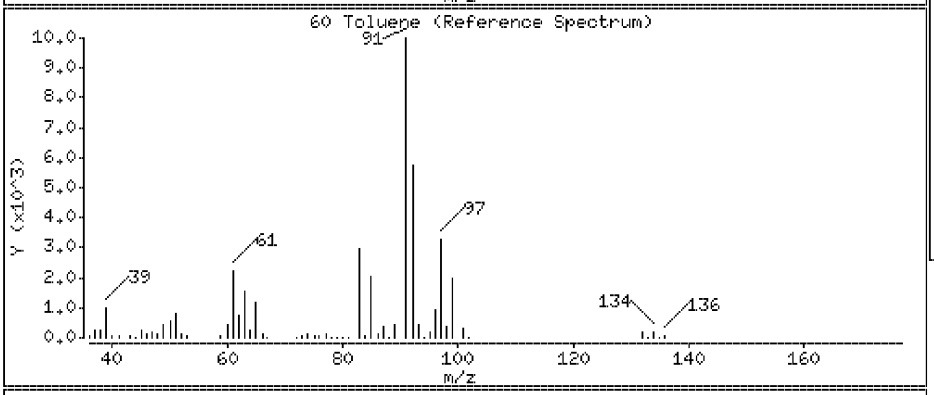
Concentration: 1.40 ppbv

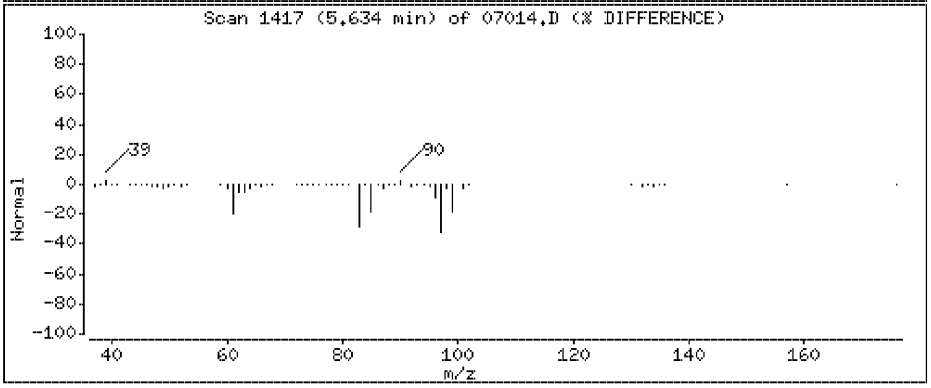












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

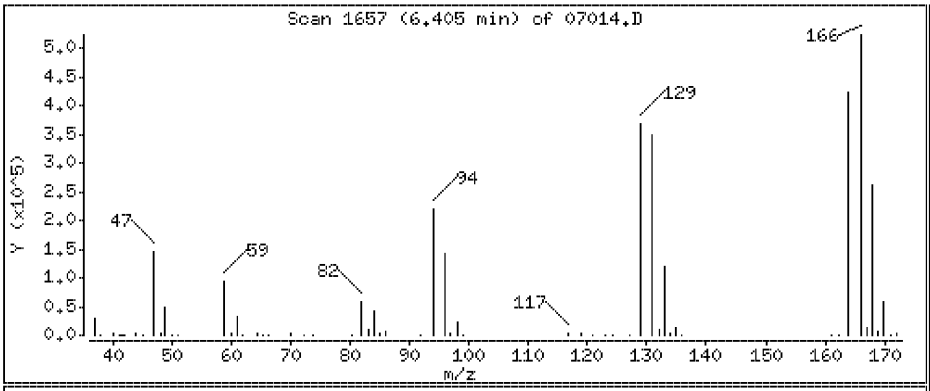
Operator: DR1

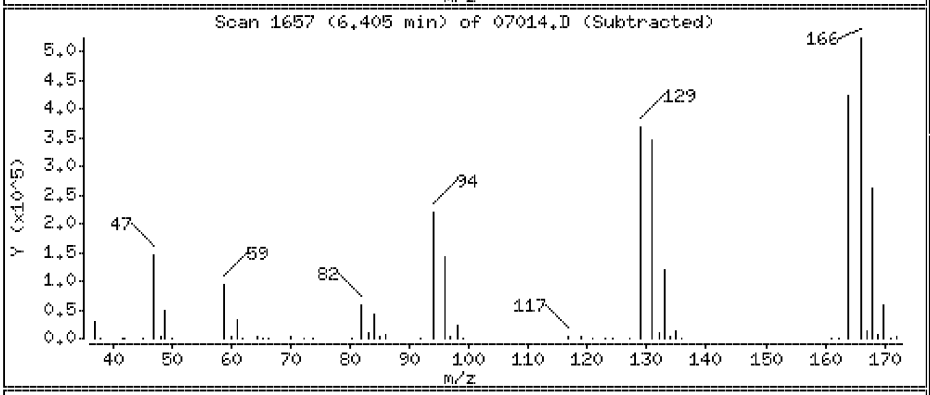
Column phase: J&W DB-5

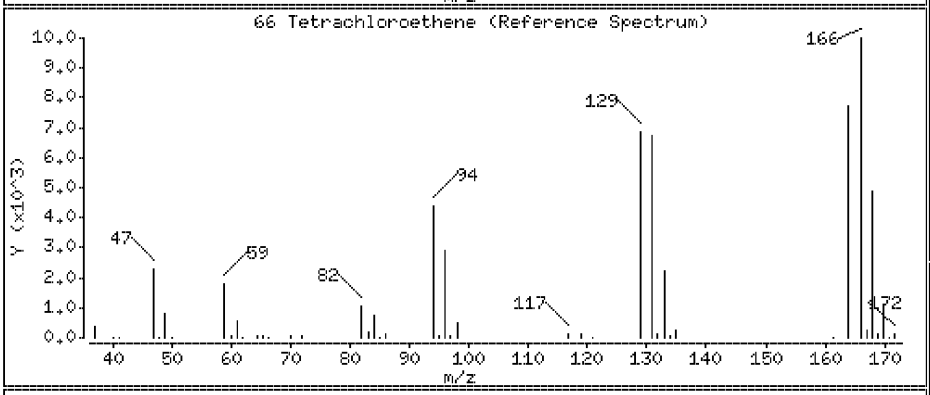
Column diameter: 0.32

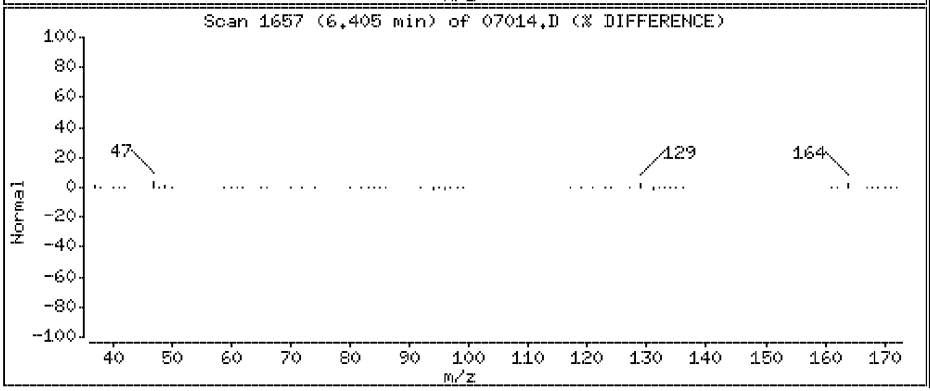
66 Tetrachloroethene

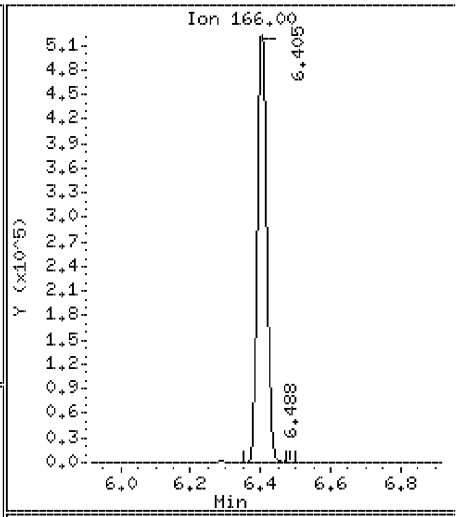
Concentration: 30.0 ppbv

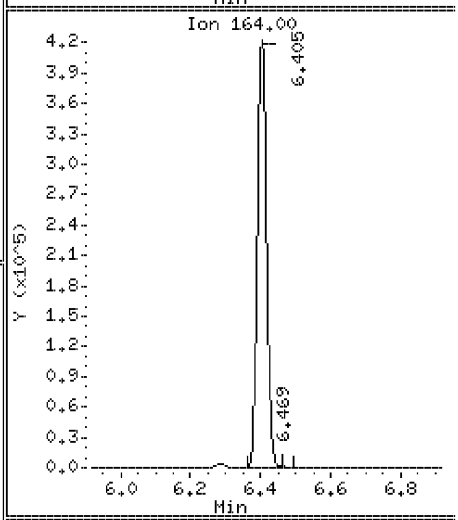


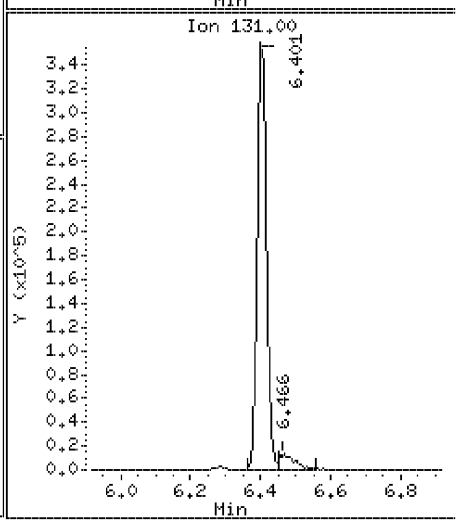












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

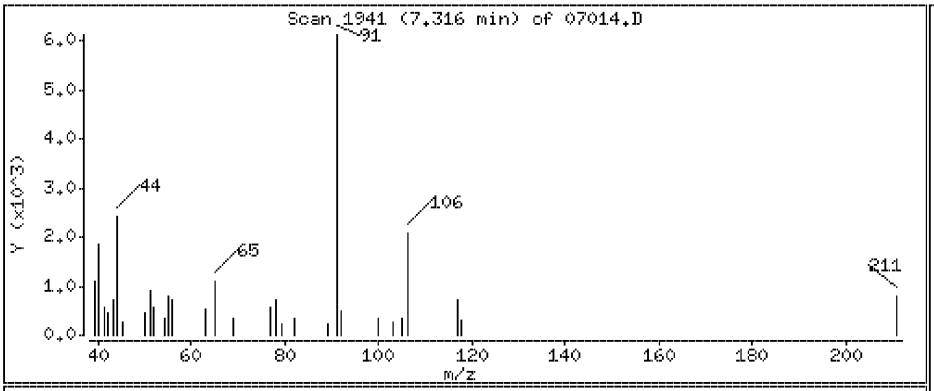
Operator: DR1

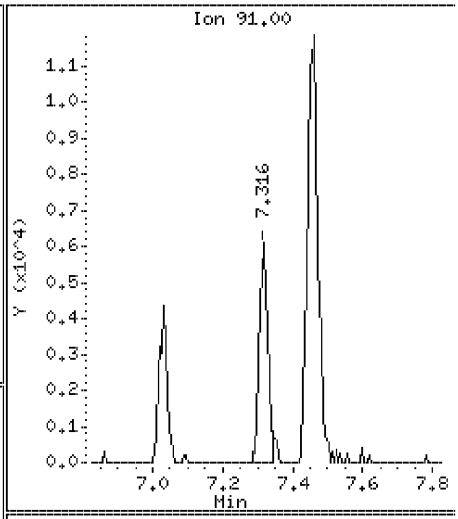
Column phase: J&W DB-5

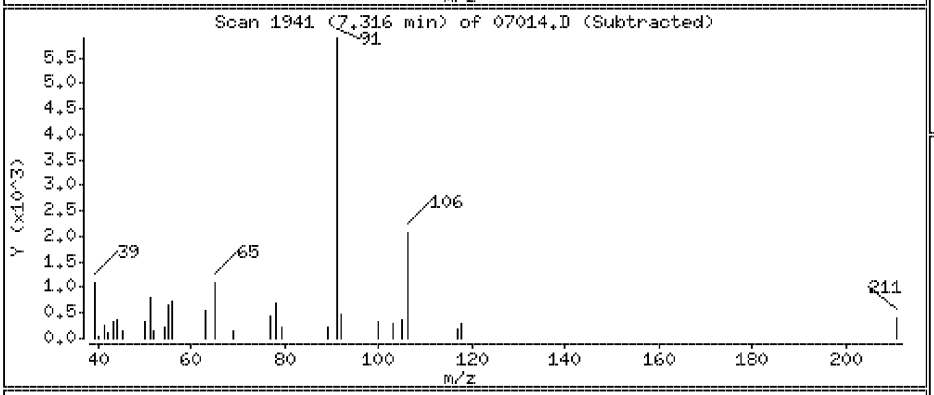
Column diameter: 0.32

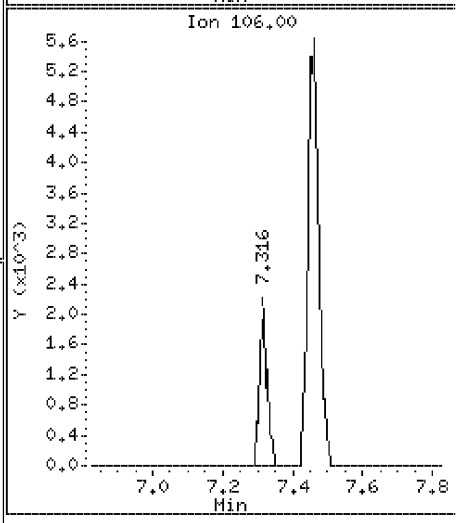
69 Ethyl Benzene

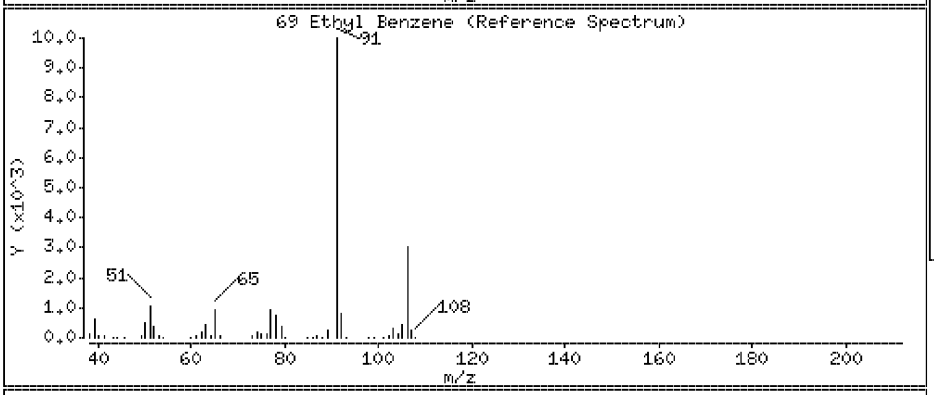
Concentration: 0.145 ppbv

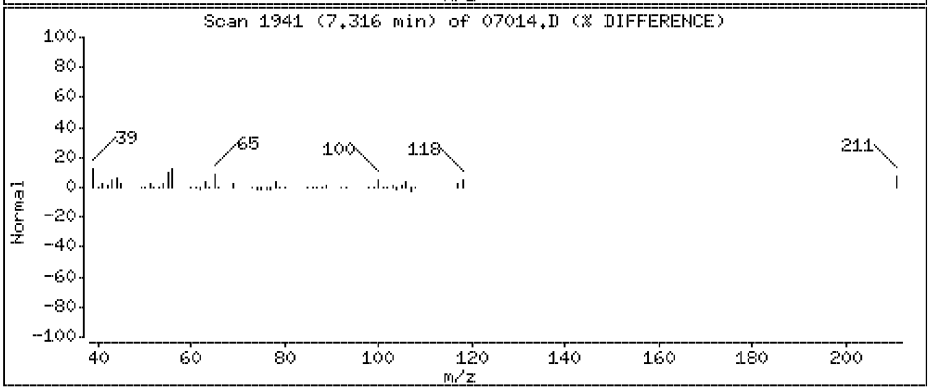












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

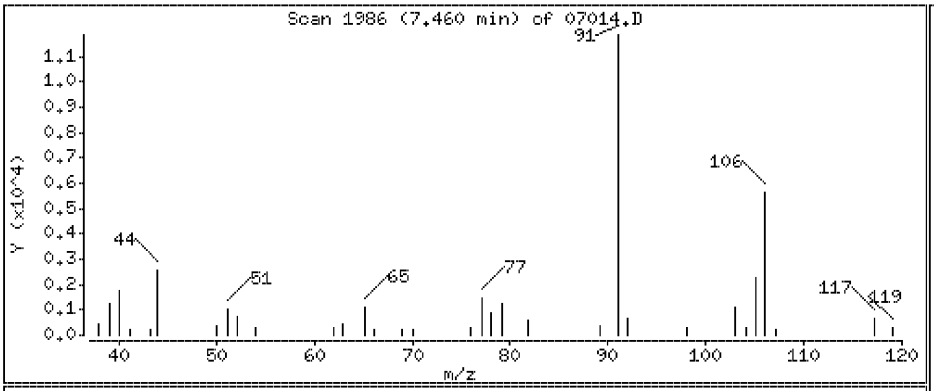
Operator: DR1

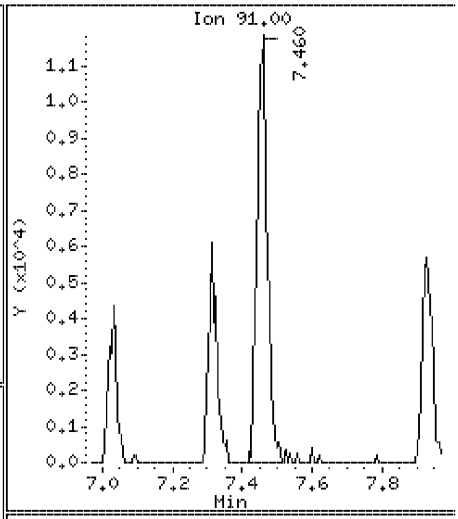
Column phase: J&W DB-5

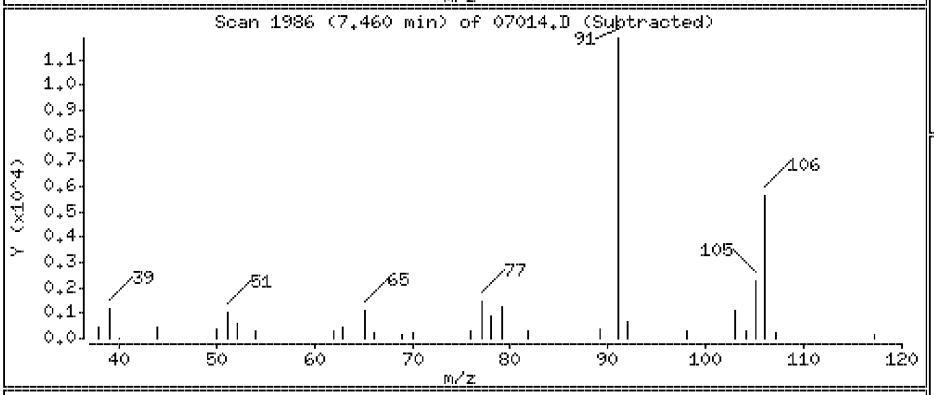
Column diameter: 0.32

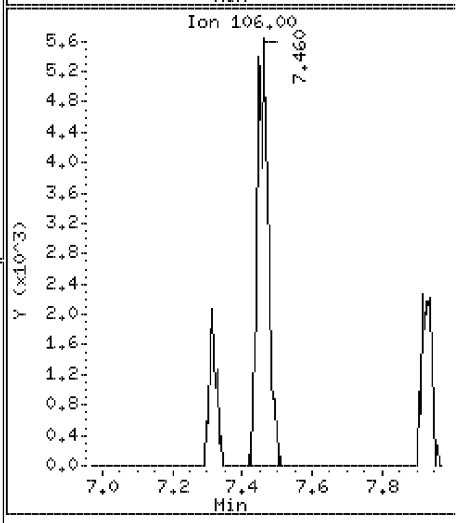
70 m&p-Xylene

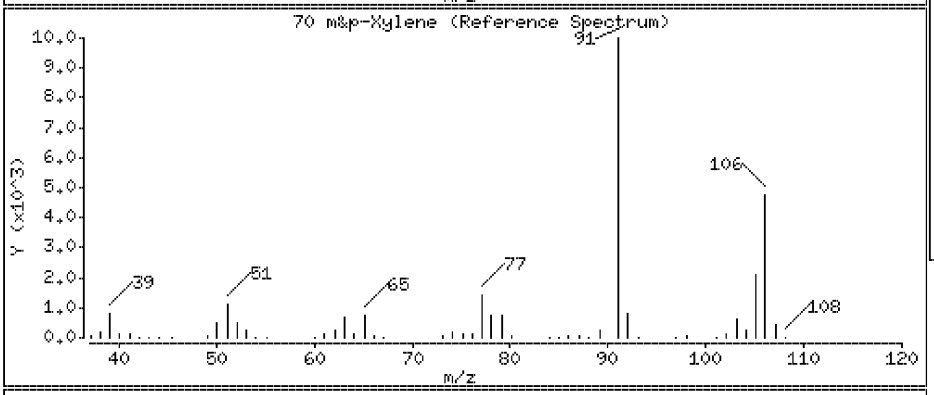
Concentration: 0.262 ppbv

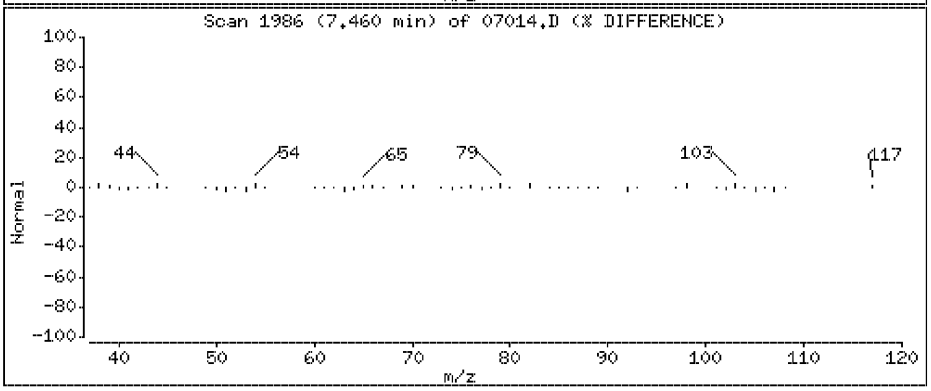












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

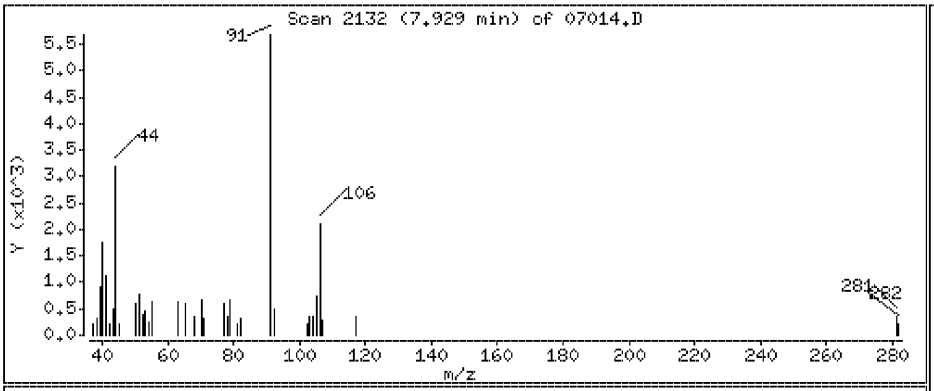
Operator: DR1

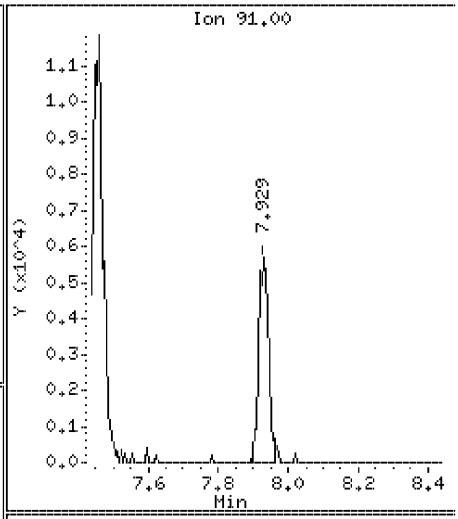
Column phase: J&W DB-5

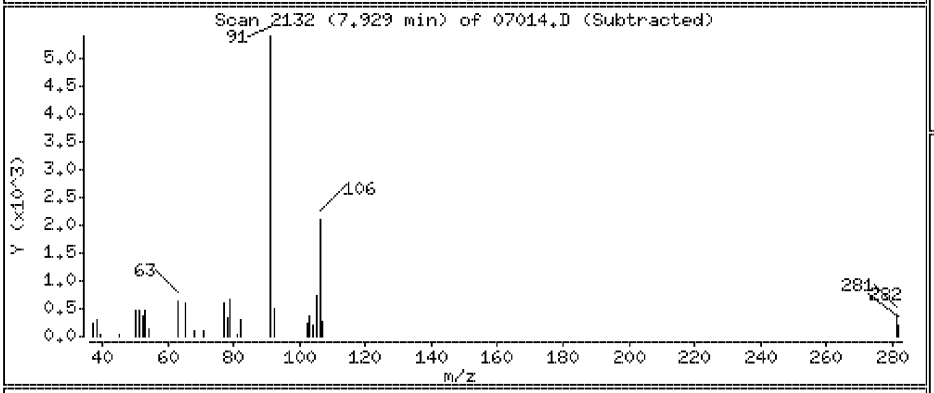
Column diameter: 0.32

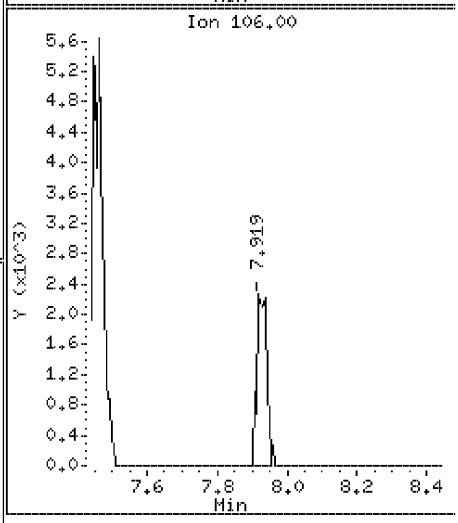
74 o-Xylene

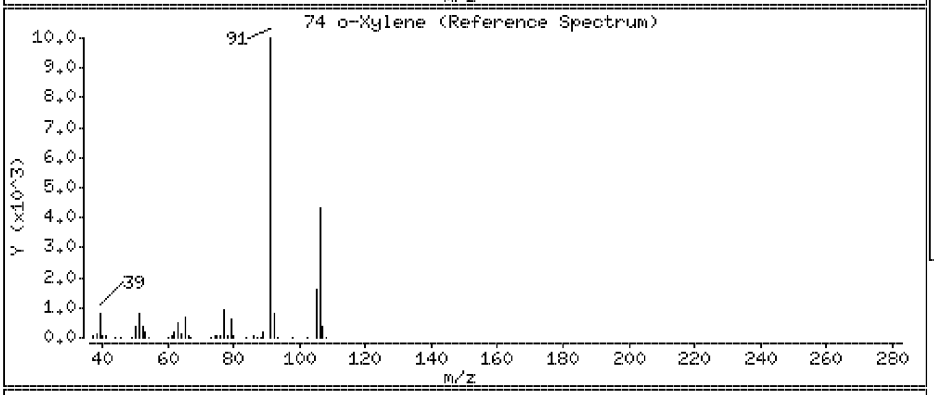
Concentration: 0.201 ppbv

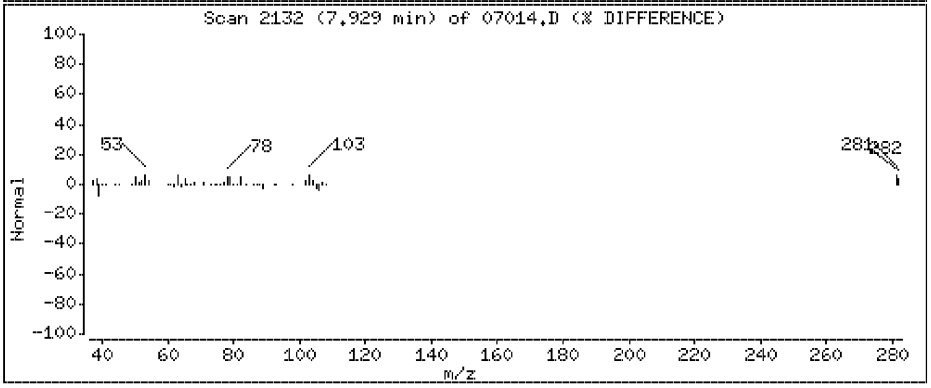












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

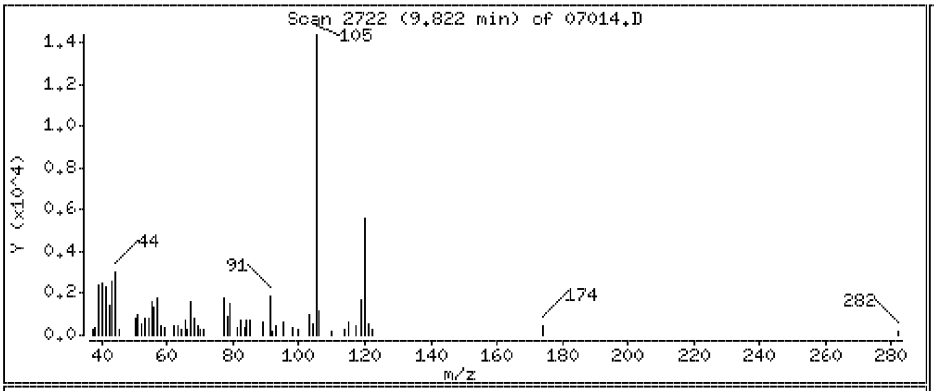
Operator: DR1

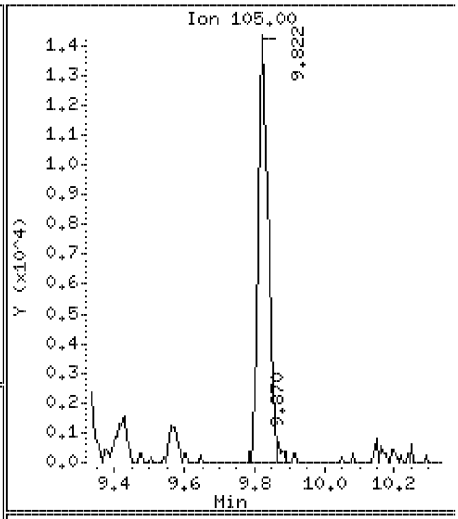
Column phase: J&W DB-5

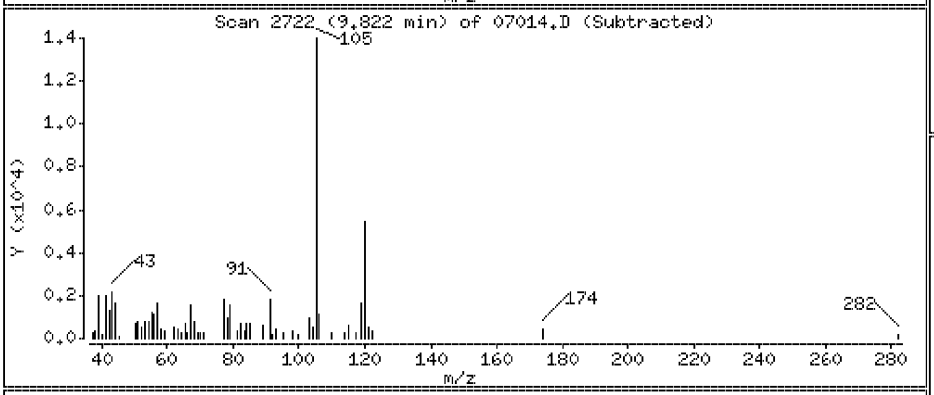
Column diameter: 0.32

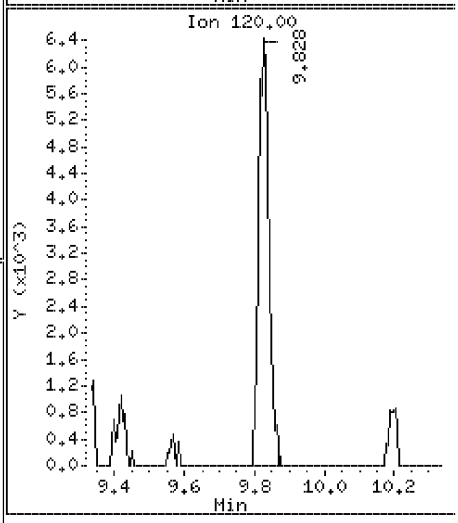
82 1,2,4-Trimethylbenzene

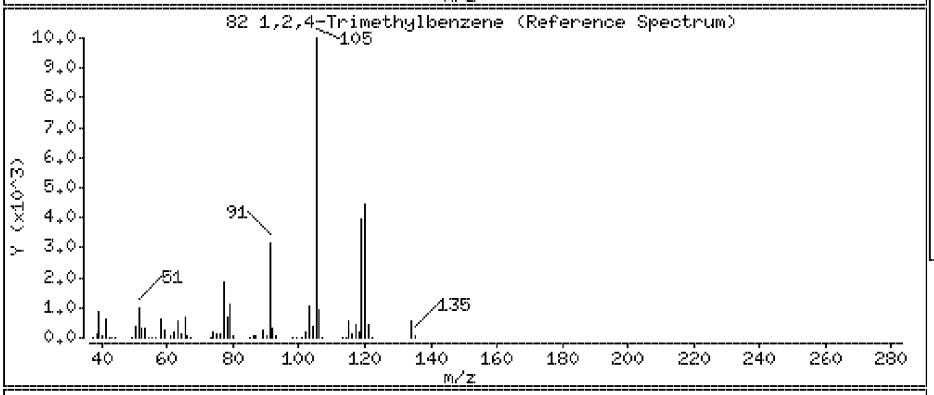
Concentration: 0.336 ppbv

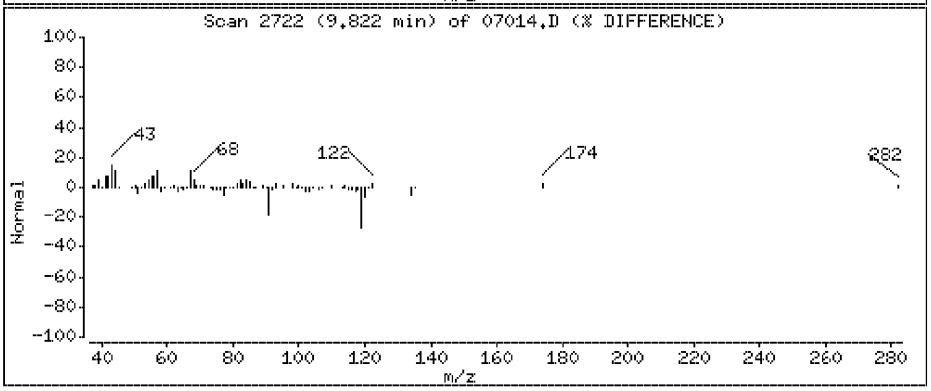












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07014.D

Date : 11-MAR-2017 17:51

Client ID:

Instrument: 10airD.i

Sample Info:

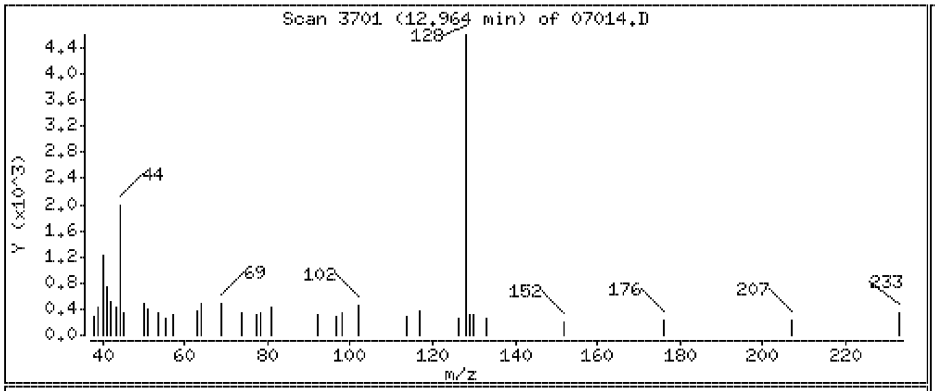
Operator: DR1

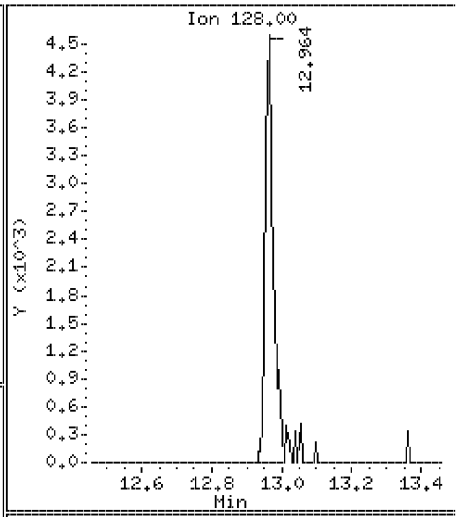
Column phase: J&W DB-5

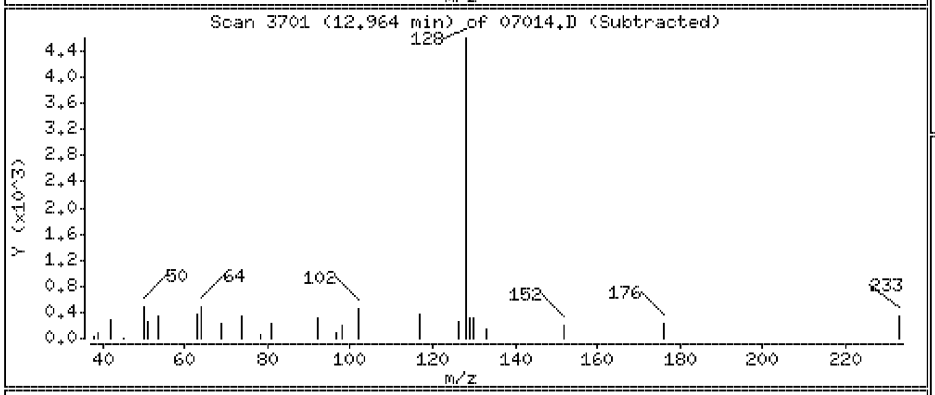
Column diameter: 0.32

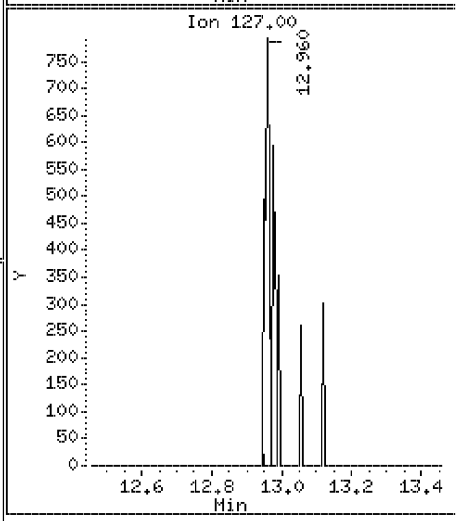
94 Naphthalene

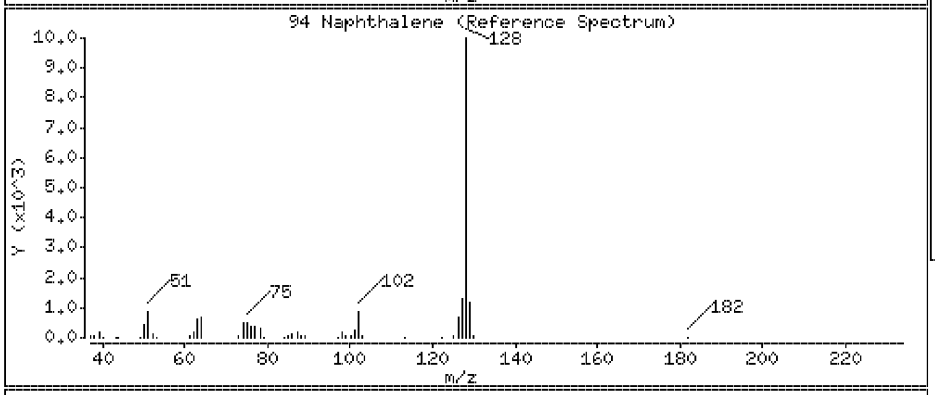
Concentration: 0.442 ppbv

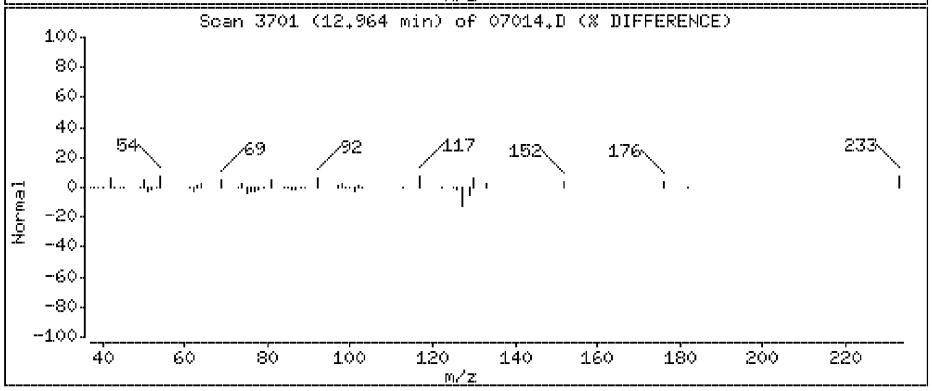






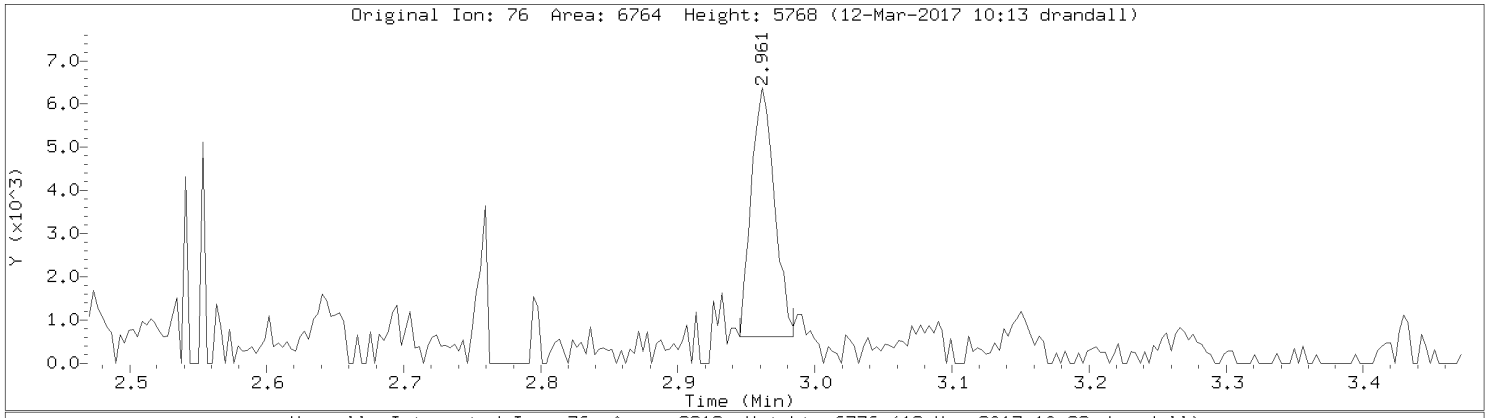


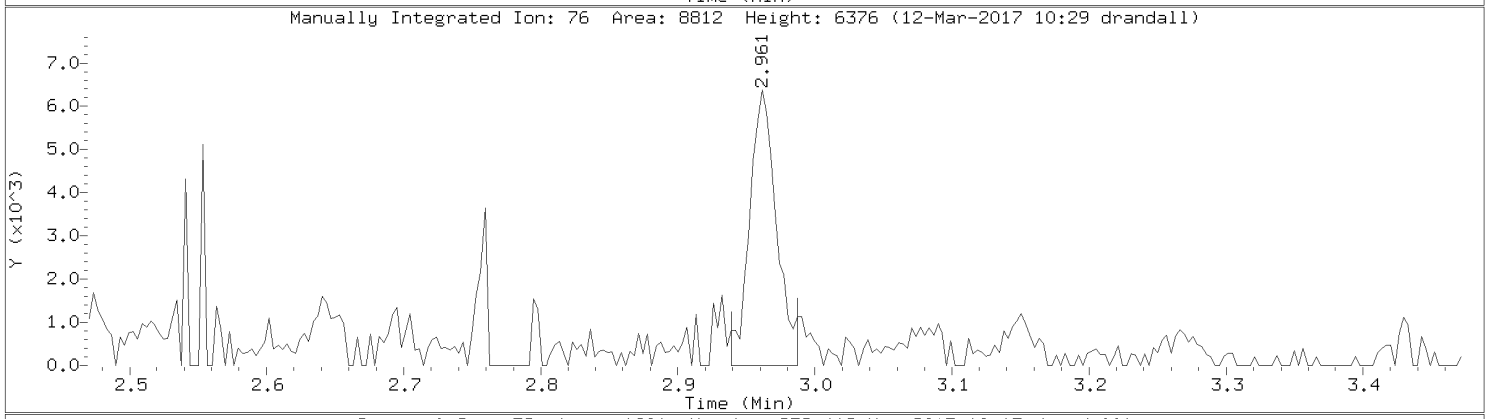


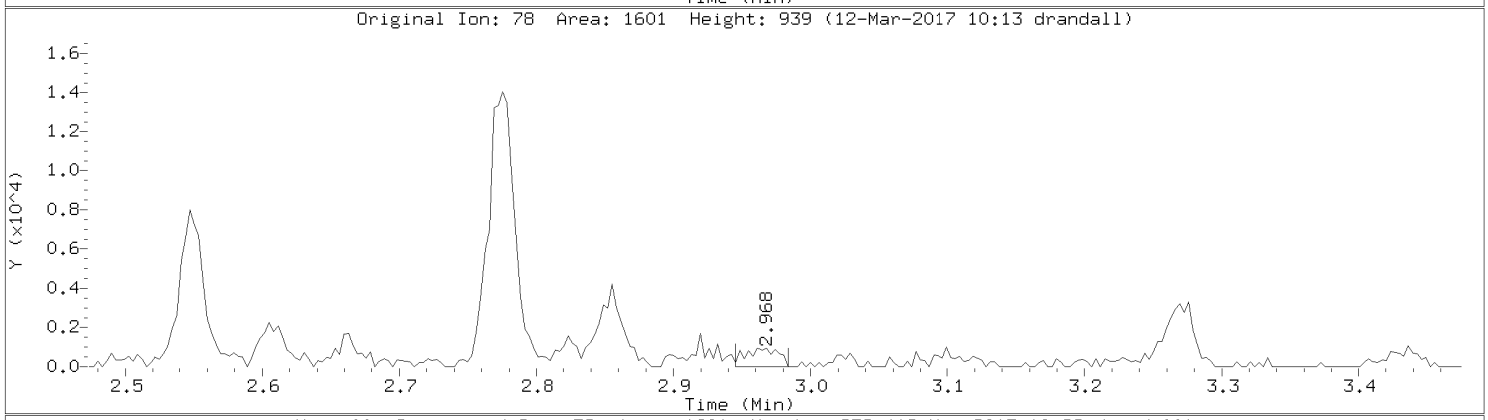


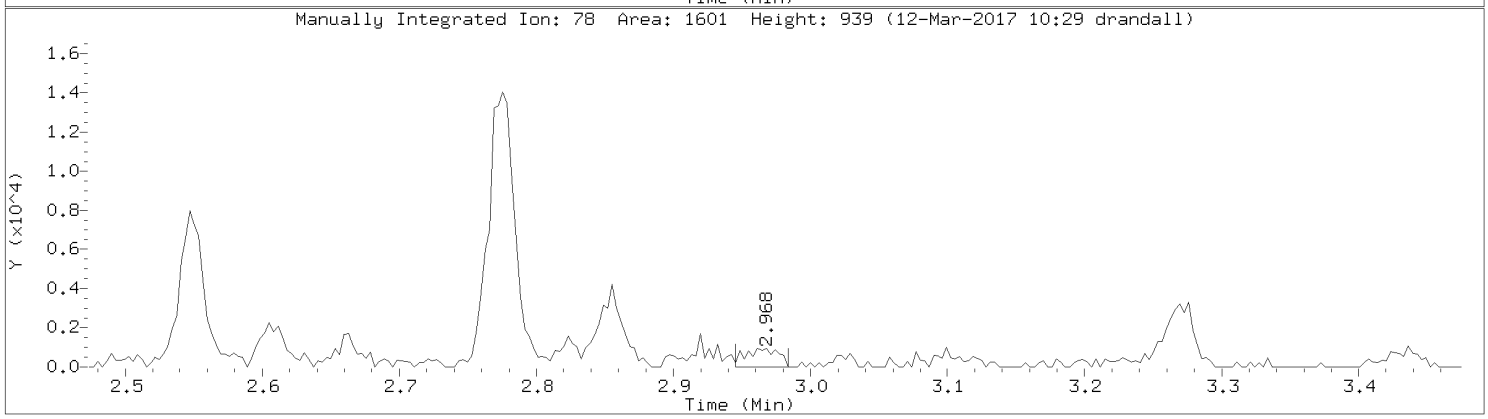
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07014.d
Injection Date: 11-MAR-2017 17:51
Instrument: 10airD.i
Lab Sample ID: 10380372011

Compound: Carbon Disulfide
CAS Number: 75-15-0



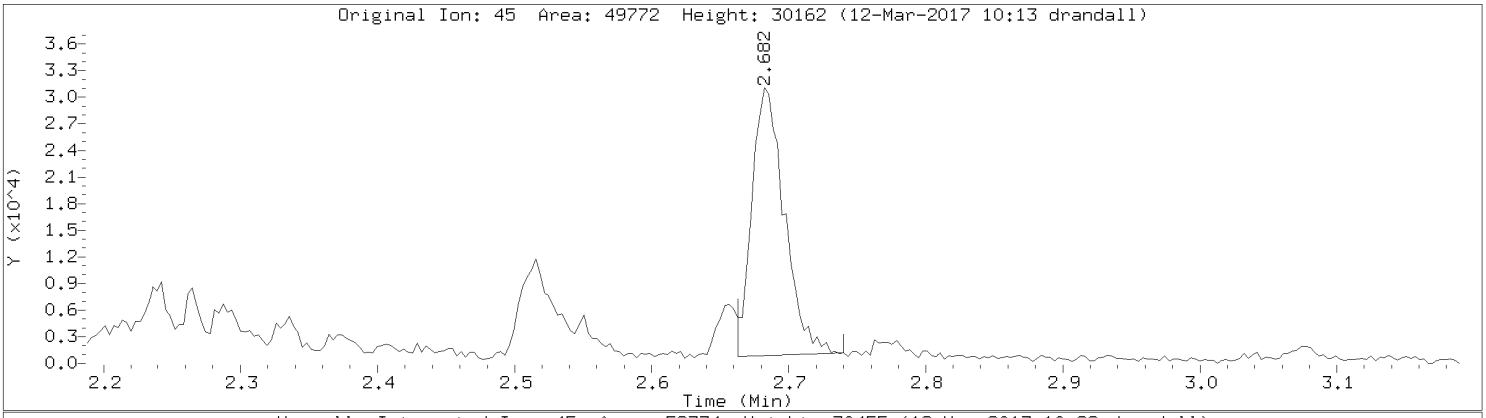


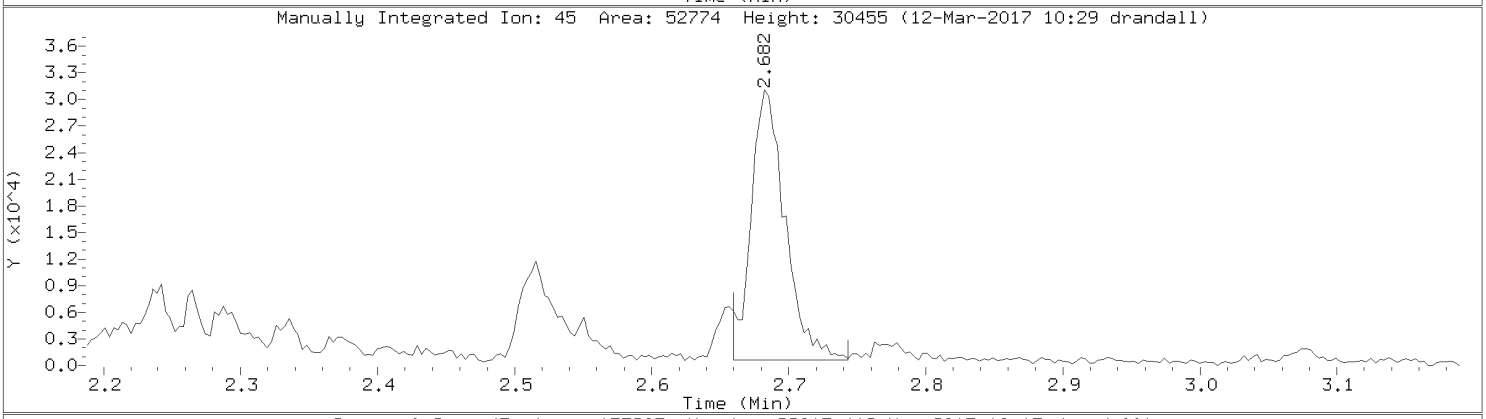


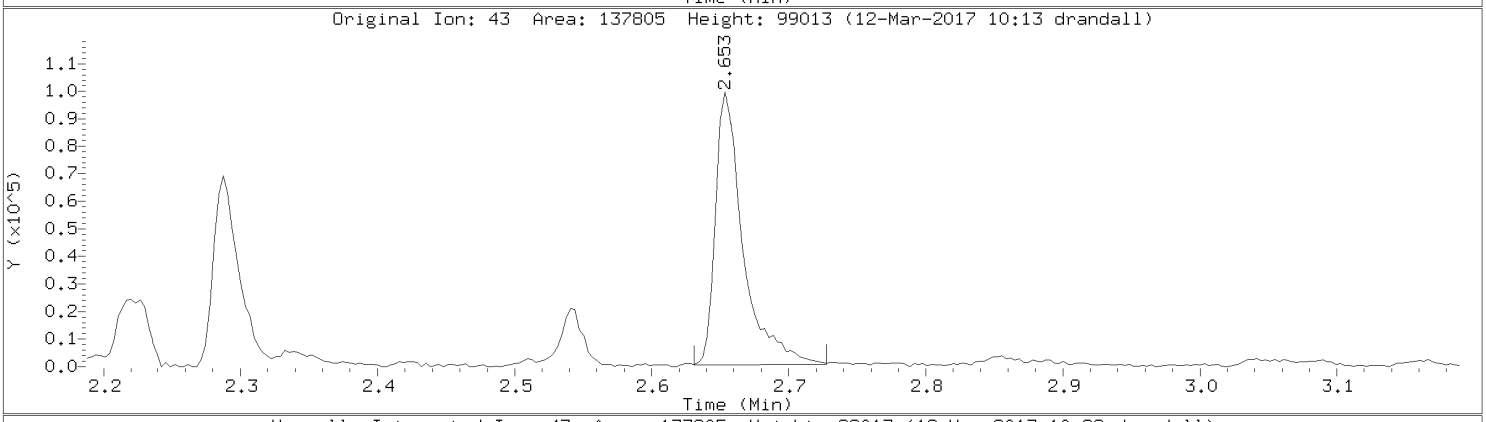


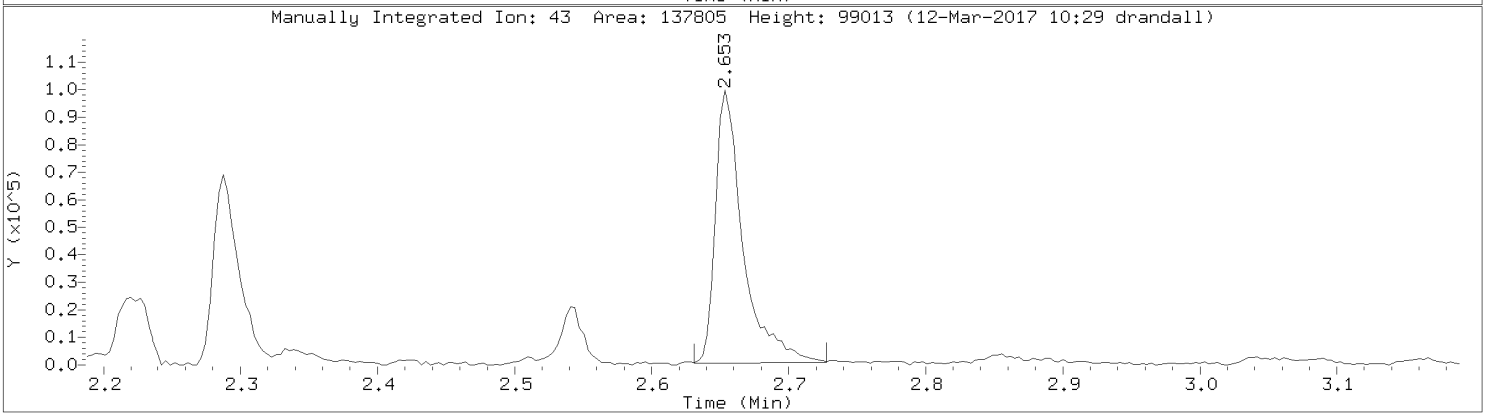
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07014.d
Injection Date: 11-MAR-2017 17:51
Instrument: 10airD.i
Lab Sample ID: 10380372011

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Data File: \\192.168.10.12\chem\10airD.i\031217.b\07110.d
Report Date: 13-Mar-2017 16:10

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031217.b\07110.d
Lab Smp Id: 10380372011
Inj Date : 12-MAR-2017 14:58
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Meth Date : 13-Mar-2017 12:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 10
Dil Factor: 8.75000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	8.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
	8 Vinyl chloride	62	Compound Not Detected.						
	18 Acetone	43	Compound Not Detected.						
	20 1,1-Dichloroethene	61	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						
$	32 Hexane-d14(S)	66	3.259	3.272	(0.769)	1375922	8.83457	8.83	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	3.452	3.471	(0.815)	1712	0.07910	0.692	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	4.238	4.251	(1.000)	2933653	10.0000		
	51 Trichloroethene	130	4.559	4.575	(1.076)	247279	6.97803	61.1	
$	59 Toluene-d8 (S)	98	5.557	5.566	(1.311)	2783864	9.47028	9.47	
	60 Toluene	91	Compound Not Detected.						
	66 Tetrachloroethene	166	6.401	6.407	(0.911)	153536	3.26329	28.6	
*	67 Chlorobenzene - d5	117	7.026	7.033	(1.000)	2128228	10.0000		
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07110.d
Report Date: 13-Mar-2017 16:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	82 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
$	85 1,4-dichlorobenzene-d4 (S)	150	10.190	10.200	(1.450)	1134961	8.70410	8.70

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07110.d
Report Date: 13-Mar-2017 16:10

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07110.d
Lab Smp Id: 10380372011
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 12-MAR-2017
Calibration Time: 10:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	2933653	-22.55
67 Chlorobenzene - d	3280875	1968525	4593225	2128228	-35.13

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.30
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

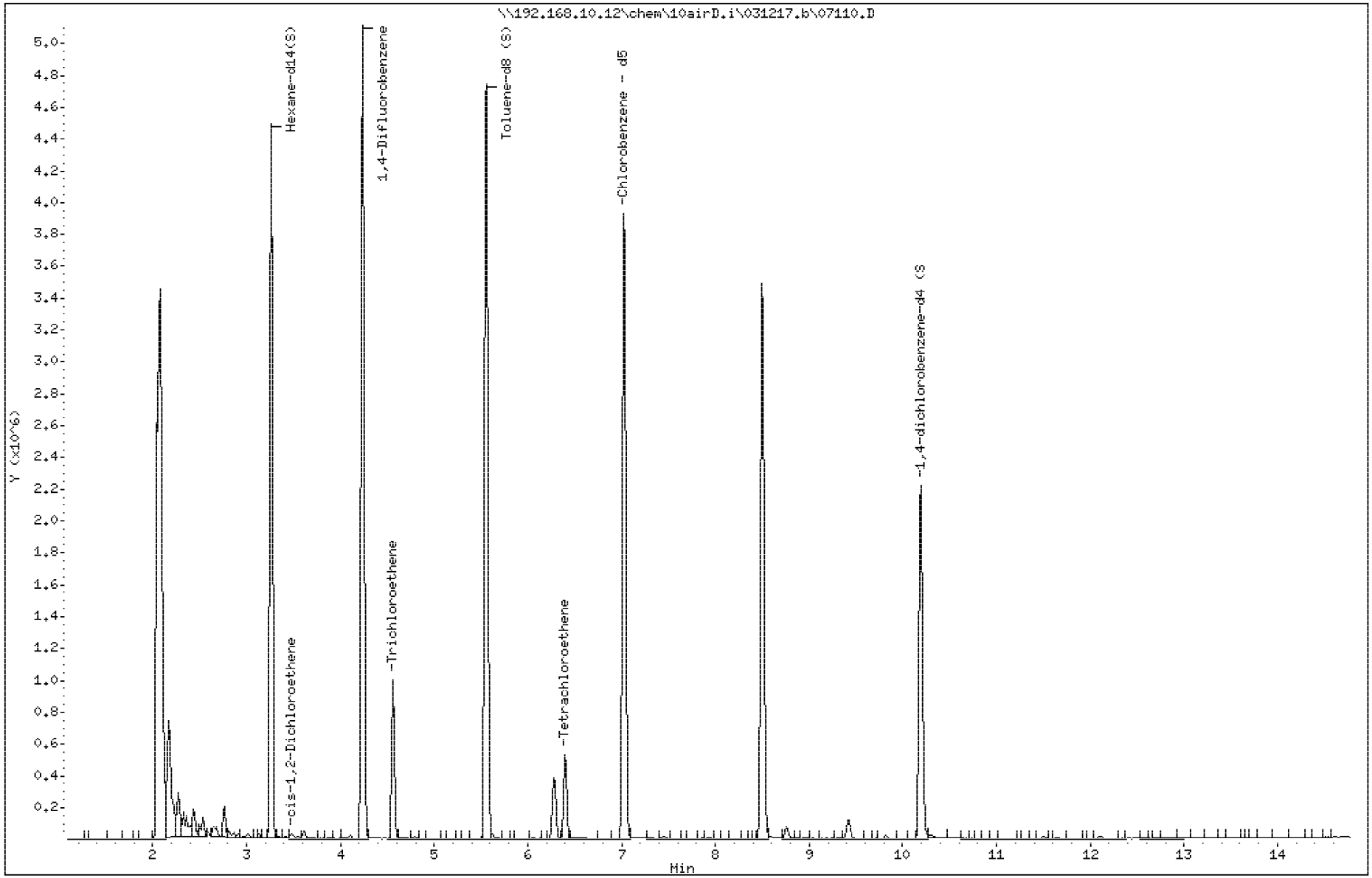
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07110.D
Date : 12-MAR-2017 14:58
Client ID:
Sample Info:

Column phase: J&W DB-5

Instrument: 10airD.i

Operator: EMC
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07110.D

Date : 12-MAR-2017 14:58

Client ID:

Instrument: 10airD.i

Sample Info:

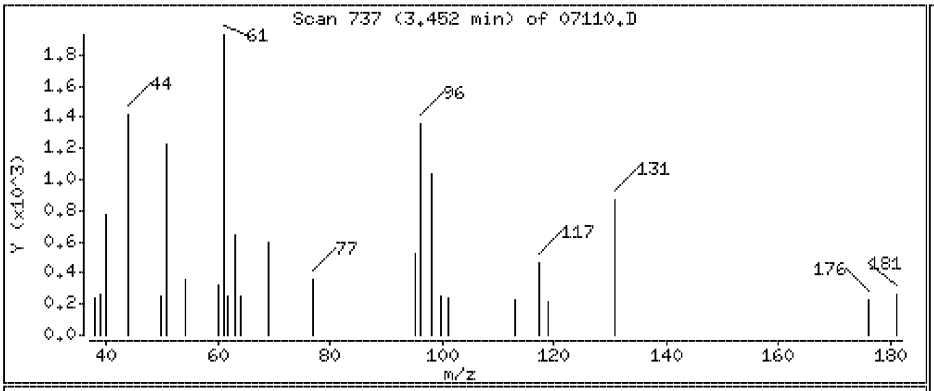
Operator: EMC

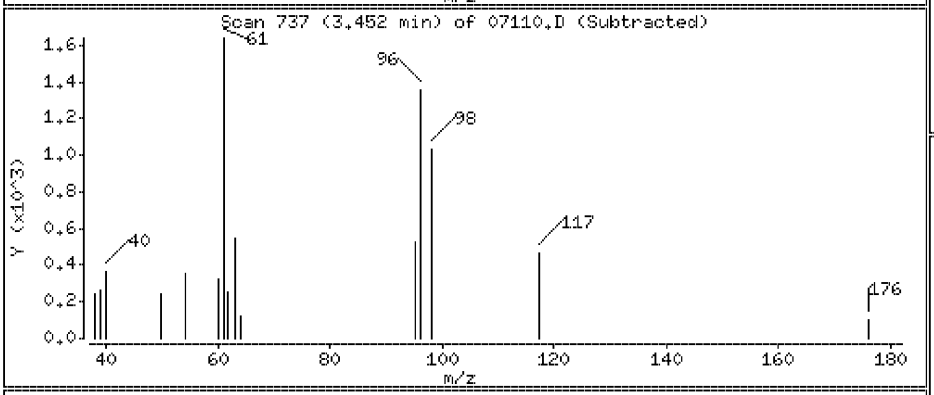
Column phase: J&W DB-5

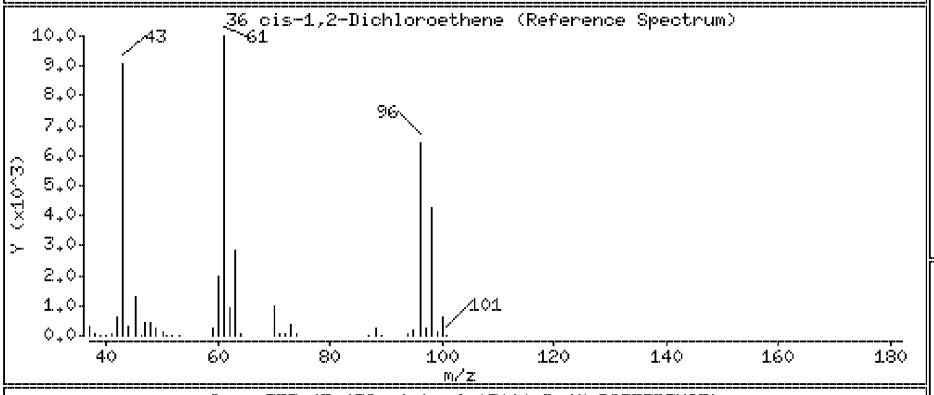
Column diameter: 0.32

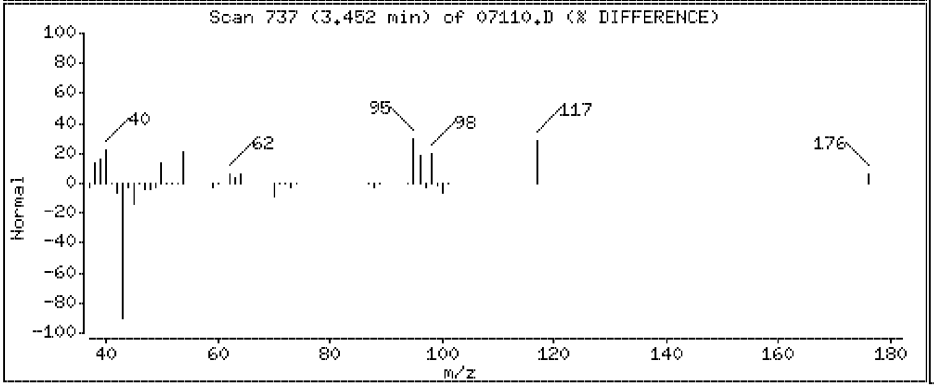
36 cis-1,2-Dichloroethene

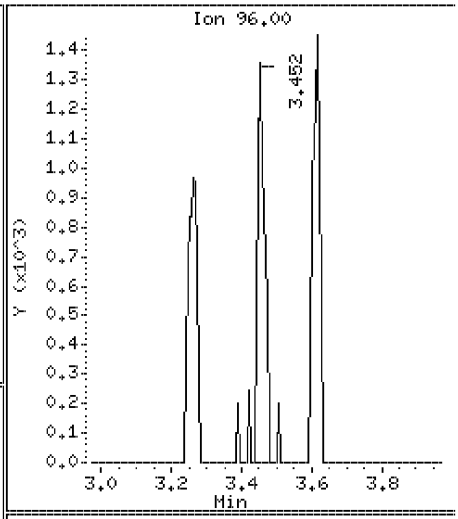
Concentration: 0.692 ppbv

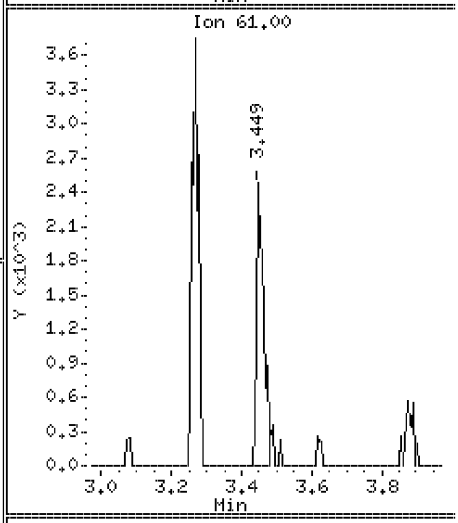


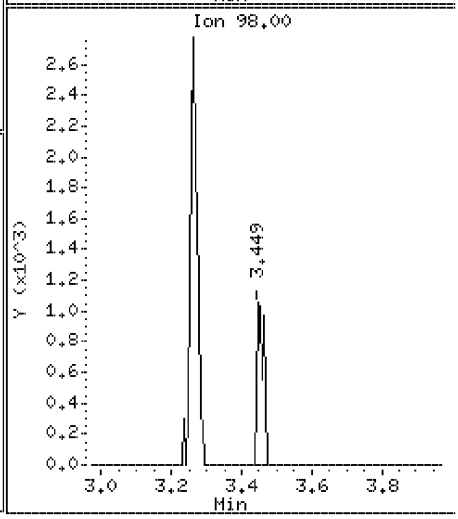












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07110.D

Date : 12-MAR-2017 14:58

Client ID:

Instrument: 10airD.i

Sample Info:

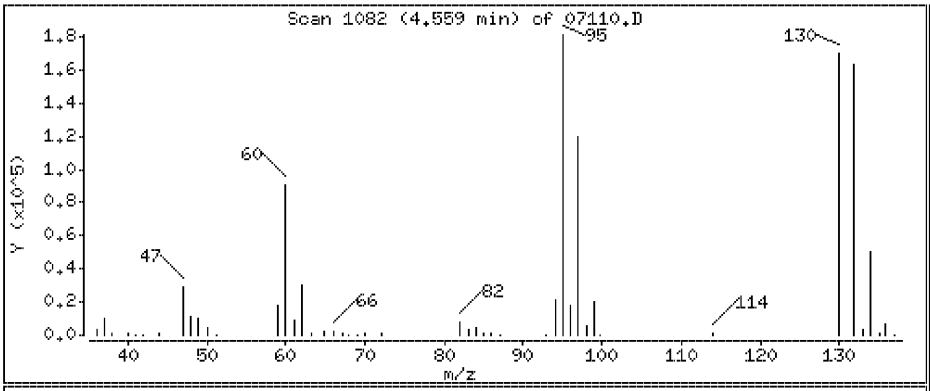
Operator: EMC

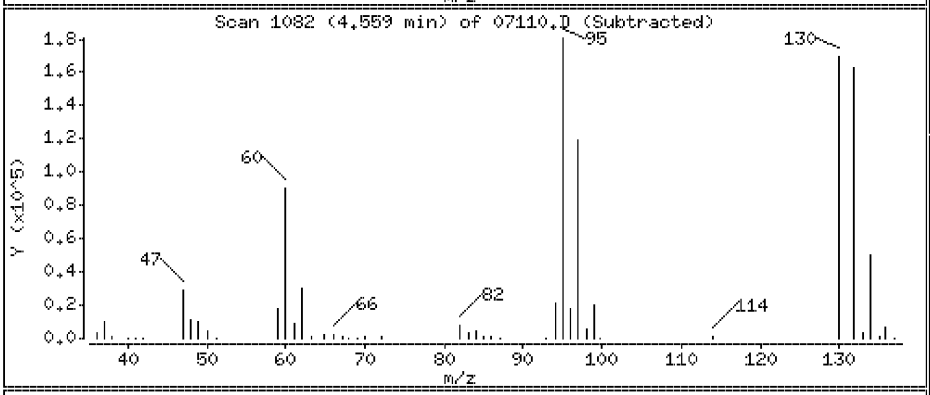
Column phase: J&W DB-5

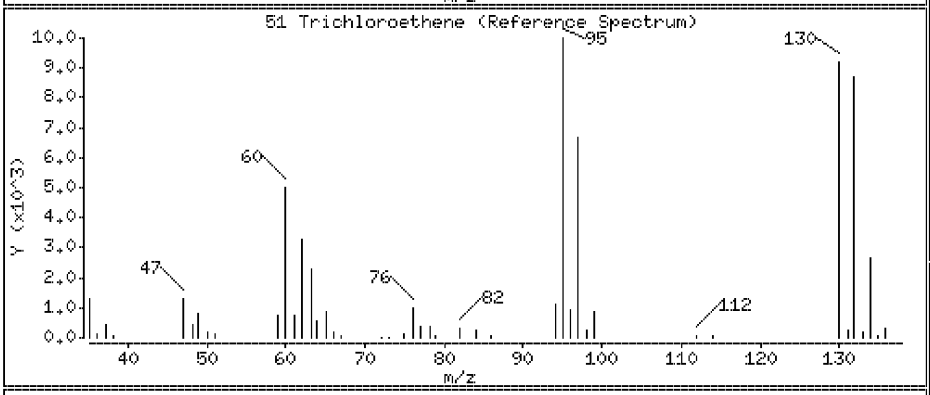
Column diameter: 0.32

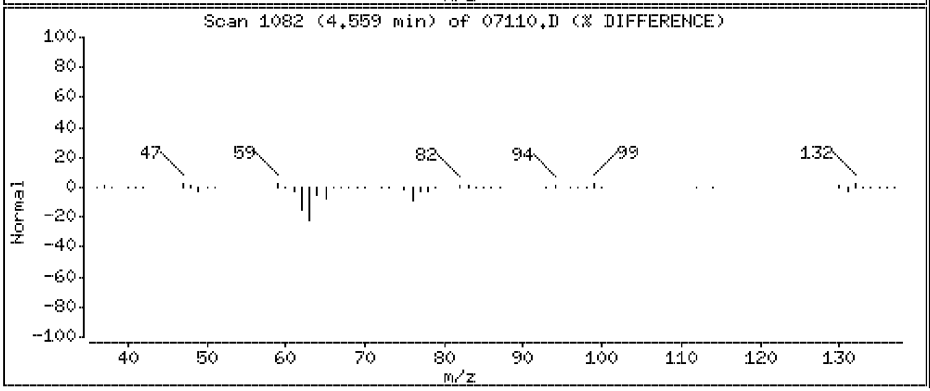
51 Trichloroethene

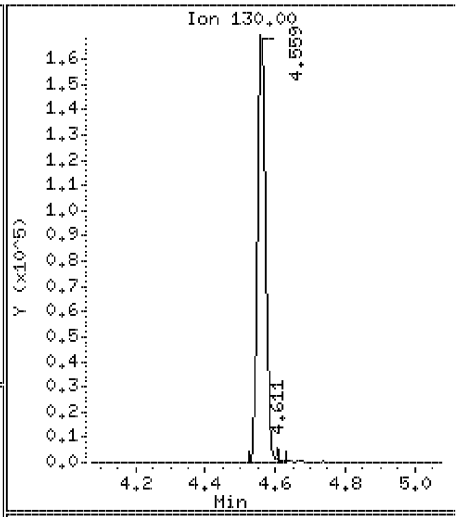
Concentration: 61.1 ppbv

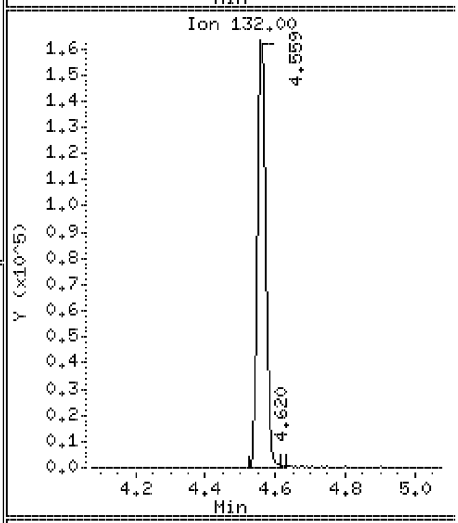


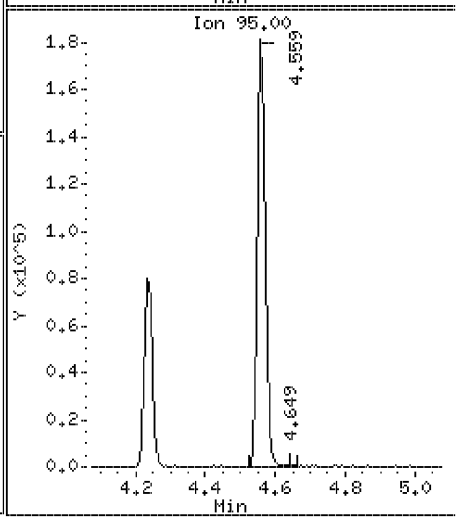












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07110.D

Date : 12-MAR-2017 14:58

Client ID:

Instrument: 10airD.i

Sample Info:

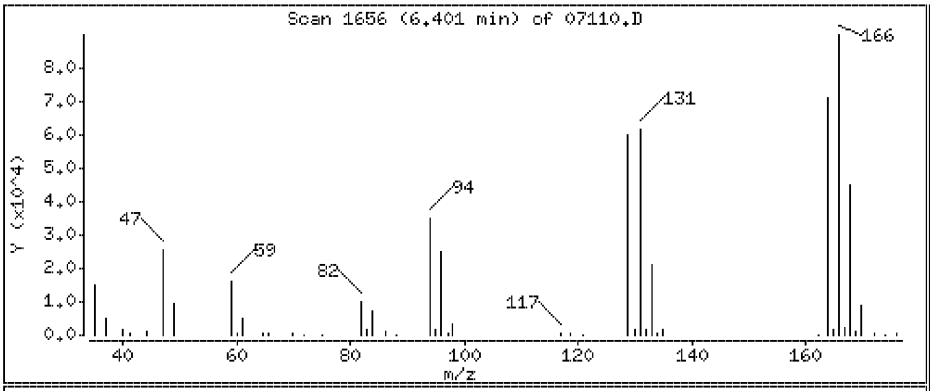
Operator: EMC

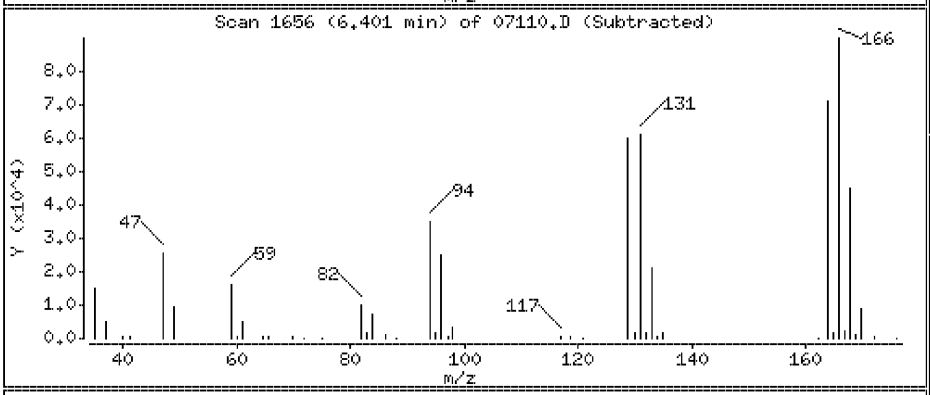
Column phase: J&W DB-5

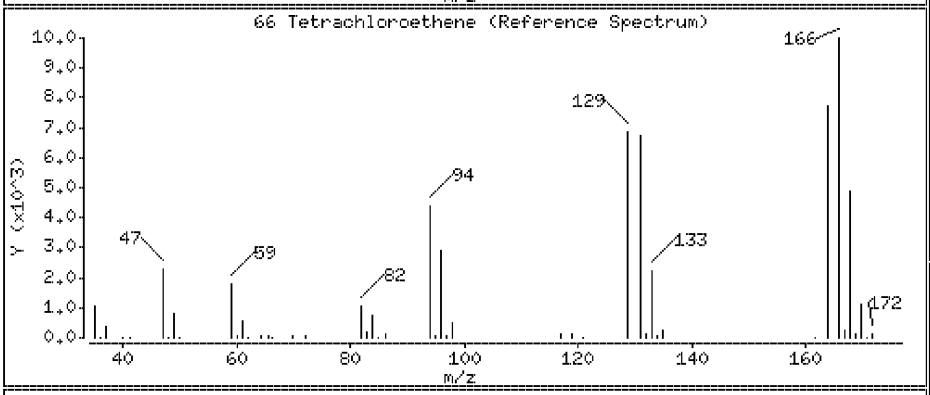
Column diameter: 0.32

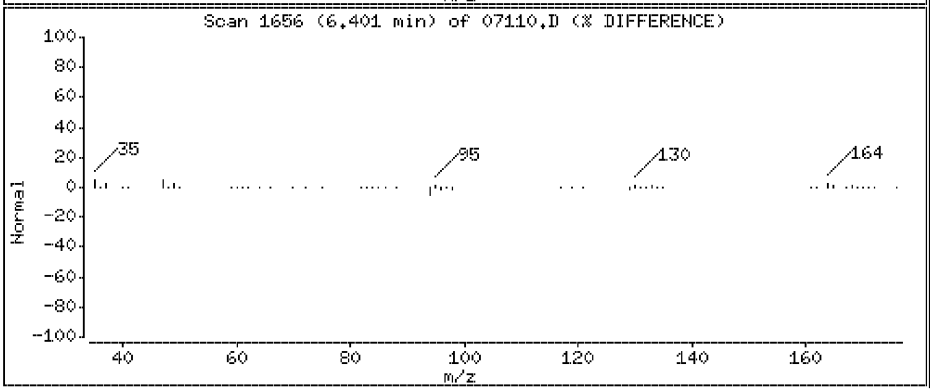
66 Tetrachloroethene

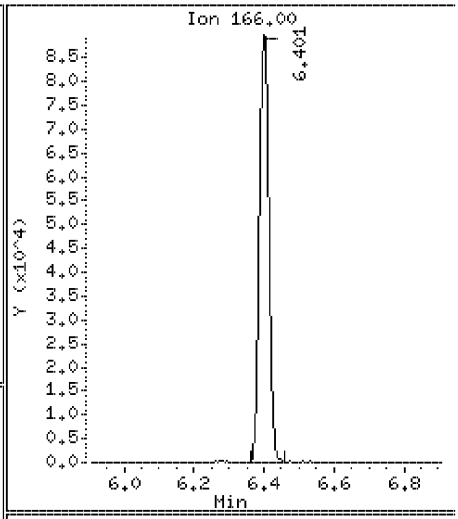
Concentration: 28.6 ppbv

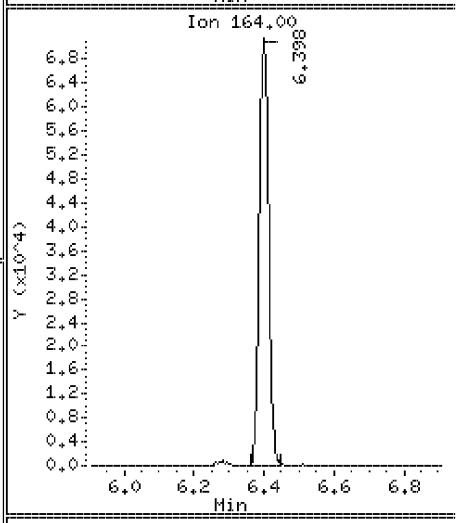


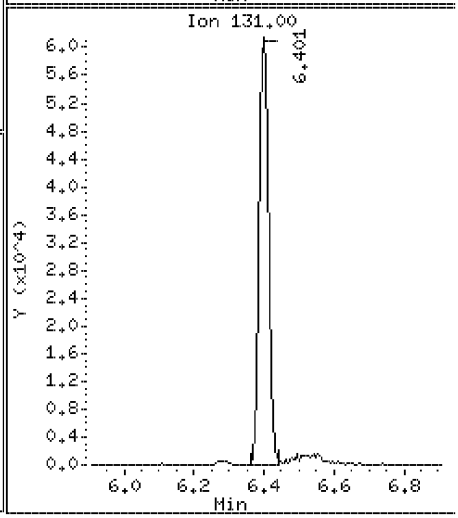












Data File: \\192.168.10.12\chem\10airD.i\031217.b/07110.d
Injection Date: 12-MAR-2017 14:58
Instrument: 10airD.i
Lab Sample ID: 10380372011
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_40_20170226 **Lab ID: 10380372011** Collected: 02/26/17 12:09 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**9.3**	ug/m3	4.4	0.42	1.75		03/11/17 17:51	67-63-0	
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/11/17 17:51	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/11/17 17:51	79-34-5	
Tetrachloroethene	**207**	ug/m3	1.2	0.49	1.75		03/11/17 17:51	127-18-4	
Toluene	**5.3**	ug/m3	1.3	0.27	1.75		03/11/17 17:51	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/11/17 17:51	120-82-1	
1,1,1-Trichloroethane	**1.1J**	ug/m3	1.9	0.43	1.75		03/11/17 17:51	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/11/17 17:51	79-00-5	
Trichloroethene	**334**	ug/m3	4.8	2.4	8.75		03/12/17 14:58	79-01-6	
Trichlorofluoromethane	**4.3**	ug/m3	2.0	0.23	1.75		03/11/17 17:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	**10.8**	ug/m3	2.8	0.53	1.75		03/11/17 17:51	76-13-1	
1,2,4-Trimethylbenzene	**1.7J**	ug/m3	1.7	0.22	1.75		03/11/17 17:51	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/11/17 17:51	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/11/17 17:51	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.1	1.4	1.75		03/11/17 17:51	179601-23-1	
o-Xylene	**0.89J**	ug/m3	1.5	0.61	1.75		03/11/17 17:51	95-47-6	

Sample: VP-103_50_20170226 **Lab ID: 10380372012** Collected: 02/26/17 11:55 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**21.8**	ug/m3	11.0	1.5	1.83		03/11/17 18:19	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/11/17 18:19	107-05-1	
Benzene	**0.22U**	ug/m3	0.59	0.22	1.83		03/11/17 18:19	71-43-2	
Bromodichloromethane	**1.0J**	ug/m3	2.5	0.36	1.83		03/11/17 18:19	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/11/17 18:19	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/11/17 18:19	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/11/17 18:19	106-99-0	
2-Butanone (MEK)	**2.7J**	ug/m3	5.5	0.42	1.83		03/11/17 18:19	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/11/17 18:19	75-15-0	
Carbon tetrachloride	**3.7**	ug/m3	1.2	0.35	1.83		03/11/17 18:19	56-23-5	CH
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/11/17 18:19	108-90-7	
Chlorodifluoromethane	**0.51U**	ug/m3	1.3	0.51	1.83		03/11/17 18:19	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/11/17 18:19	75-00-3	
Chloroform	**5.1**	ug/m3	0.91	0.35	1.83		03/11/17 18:19	67-66-3	
Chloromethane	**0.20U**	ug/m3	0.77	0.20	1.83		03/11/17 18:19	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/11/17 18:19	76-15-3	CL
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/11/17 18:19	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/11/17 18:19	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/11/17 18:19	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/11/17 18:19	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/11/17 18:19	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/11/17 18:19	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_50_20170226 **Lab ID: 10380372012** Collected: 02/26/17 11:55 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/11/17 18:19	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.88	1.83		03/11/17 18:19	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/11/17 18:19	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/11/17 18:19	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/11/17 18:19	75-35-4	
cis-1,2-Dichloroethene	**3.7**	ug/m3	1.5	0.45	1.83		03/11/17 18:19	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/11/17 18:19	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/11/17 18:19	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/11/17 18:19	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/11/17 18:19	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/11/17 18:19	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/11/17 18:19	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/11/17 18:19	123-91-1	
Ethylbenzene	**0.78U**	ug/m3	1.6	0.78	1.83		03/11/17 18:19	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/11/17 18:19	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/11/17 18:19	87-68-3	
n-Hexane	**0.88J**	ug/m3	1.3	0.65	1.83		03/11/17 18:19	110-54-3	
2-Hexanone	**1.3J**	ug/m3	7.6	0.75	1.83		03/11/17 18:19	591-78-6	
Isopropylbenzene (Cumene)	**0.25U**	ug/m3	4.6	0.25	1.83		03/11/17 18:19	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/11/17 18:19	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/11/17 18:19	108-87-2	
Methylene Chloride	**2.0J**	ug/m3	6.5	0.99	1.83		03/11/17 18:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/11/17 18:19	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/11/17 18:19	1634-04-4	
2-Propanol	**2.3J**	ug/m3	4.6	0.44	1.83		03/11/17 18:19	67-63-0	
Styrene	**0.35U**	ug/m3	1.6	0.35	1.83		03/11/17 18:19	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/11/17 18:19	79-34-5	
Tetrachloroethene	**229**	ug/m3	1.3	0.51	1.83		03/11/17 18:19	127-18-4	
Toluene	**1.3J**	ug/m3	1.4	0.28	1.83		03/11/17 18:19	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/11/17 18:19	120-82-1	
1,1,1-Trichloroethane	**1.1J**	ug/m3	2.0	0.45	1.83		03/11/17 18:19	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/11/17 18:19	79-00-5	
Trichloroethene	**352**	ug/m3	5.0	2.5	9.15		03/12/17 14:34	79-01-6	
Trichlorofluoromethane	**3.6**	ug/m3	2.1	0.24	1.83		03/11/17 18:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	**8.2**	ug/m3	2.9	0.55	1.83		03/11/17 18:19	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.8	0.23	1.83		03/11/17 18:19	95-63-6	
1,3,5-Trimethylbenzene	**0.33U**	ug/m3	1.8	0.33	1.83		03/11/17 18:19	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/11/17 18:19	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.2	1.4	1.83		03/11/17 18:19	179601-23-1	
o-Xylene	**0.64U**	ug/m3	1.6	0.64	1.83		03/11/17 18:19	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.d
Report Date: 12-Mar-2017 10:31

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07015.d
Lab Smp Id: 10380372012
Inj Date : 11-MAR-2017 18:19
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 15
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	2.133	2.146	(0.503)	3162	0.05664	0.104	
5	Dichlorodifluoromethane	85	2.152	2.165	(0.507)	22245	0.31544	0.577	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.605	2.614	(0.614)	25137	0.34073	0.624	
17	Acrolein	56	2.621	2.624	(0.617)	3554	0.83376	1.53	
18	Acetone	43	2.649	2.653	(0.624)	220499	4.94437	9.05	
19	Isopropyl Alcohol	45	2.691	2.688	(0.634)	12771	0.51110	0.935(QM)	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	2.852	2.845	(0.672)	3520	0.10355	0.189(Q)	
22	Freon 113	101	2.823	2.829	(0.665)	33111	0.57247	1.05	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.d
Report Date: 12-Mar-2017 10:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	2.868	2.871	(0.676)	21056	0.30793	0.564	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.275	(0.770)	1579528	9.27562	9.28	
	33 Methyl Ethyl Ketone	72	3.352	3.359	(0.790)	4978	0.48811	0.893(Q)	
	34 n-Hexane	57	3.355	3.352	(0.791)	4925	0.13357	0.244(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	3.465	3.465	(0.816)	11832	0.49997	0.915	
	37 Ethyl Acetate	43	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	3.554	3.558	(0.837)	33263	0.55656	1.02	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	3.891	3.901	(0.917)	6344	0.10552	0.193	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	Compound Not Detected.						(D)
	45 Carbon tetrachloride	117	4.116	4.116	(0.970)	18000	0.31809	0.582	
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.244	4.247	(1.000)	3207634	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	4.462	4.491	(1.051)	7260	0.13175	0.241(Q)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	4.568	4.568	(1.076)	1422606	36.7159	67.2(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 Bromodichloromethane	83	4.655	4.655	(1.097)	5524	0.08279	0.152	
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.563	5.563	(1.311)	3033037	9.43662	9.44	
	60 Toluene	91	5.631	5.631	(1.327)	17936	0.18915	0.346	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	5.900	5.887	(0.839)	9365	0.16407	0.300(H)	
	63 n-Octane	43	6.061	6.051	(0.862)	13603	0.22918	0.419(Q)	
	64 Dibromochloromethane	129	6.125	6.121	(0.871)	1890	0.03210	0.0587(aQ)	
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.404	6.404	(0.911)	958919	18.1347	33.2	
*	67 Chlorobenzene - d5	117	7.030	7.030	(1.000)	2391849	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.322	7.315	(1.042)	4915	0.04683	0.0857(a)	
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.899	7.858	(1.124)	12536	0.22890	0.419(QMH)	
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	7.922	7.928	(1.127)	6483	0.07493	0.137	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.d
Report Date: 12-Mar-2017 10:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.821	9.825	(1.397)	21582	0.15126	0.277	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.450)	1224304	8.35443	8.35	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						(D)
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.d
Report Date: 12-Mar-2017 10:31

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07015.d
Lab Smp Id: 10380372012
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

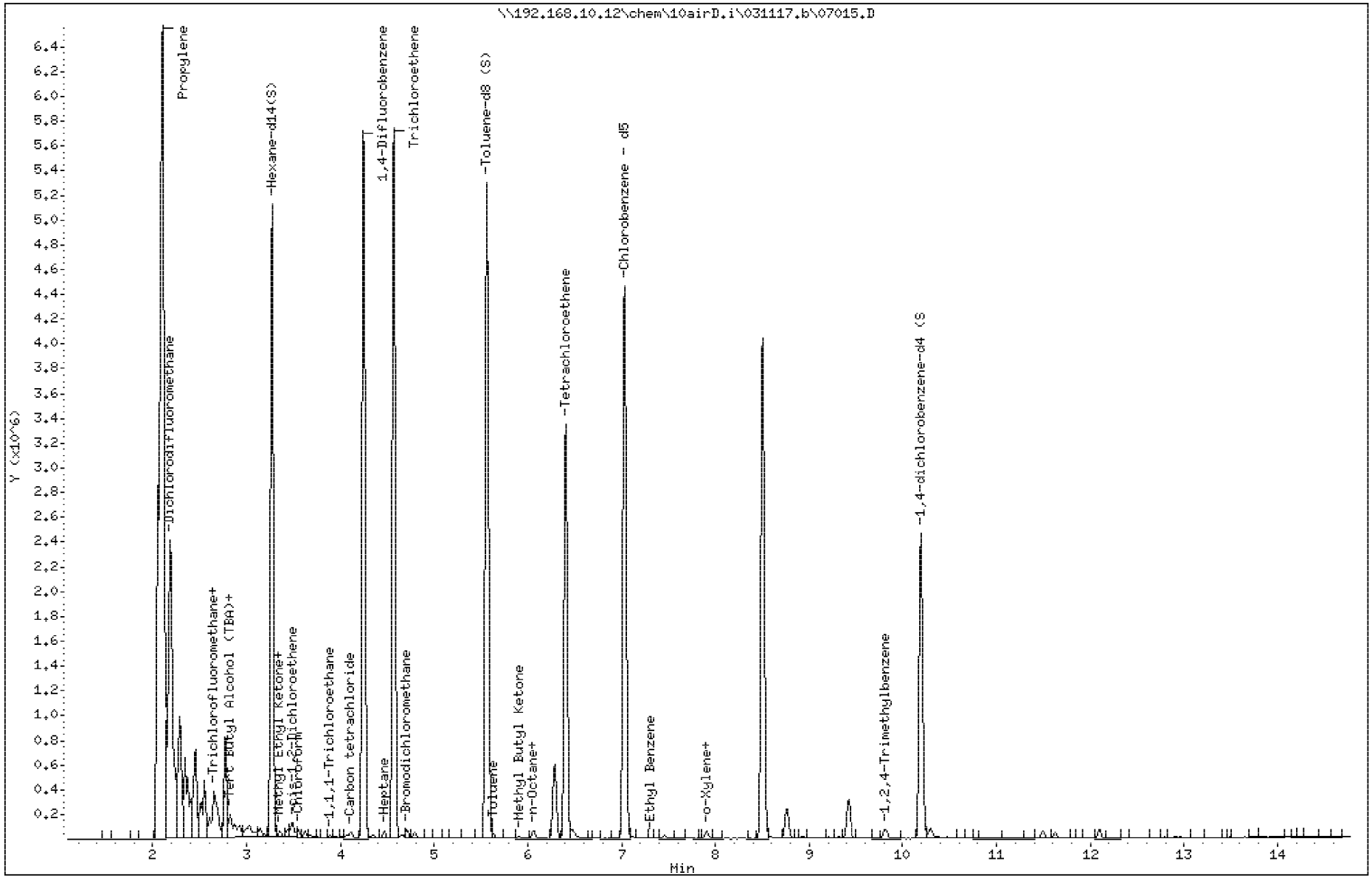
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3207634	-15.31
67 Chlorobenzene - d	3280875	1968525	4593225	2391849	-27.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.08
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D
Date : 11-MAR-2017 18:19
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

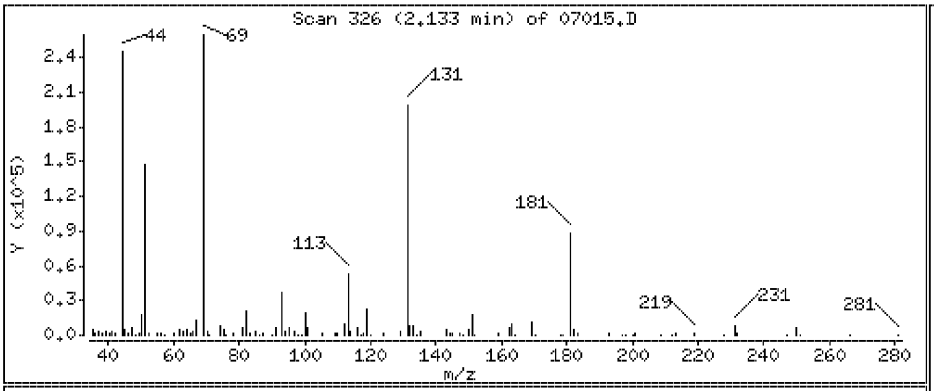
Operator: DR1

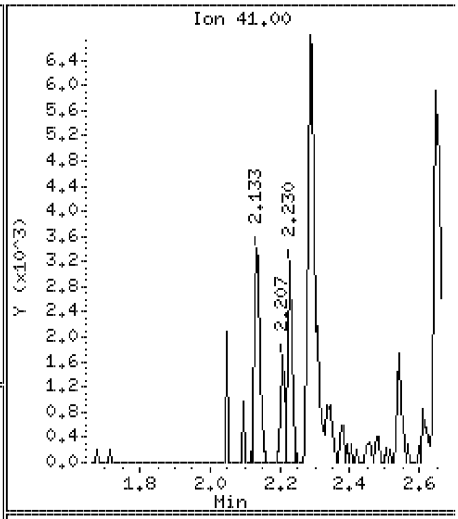
Column phase: J&W DB-5

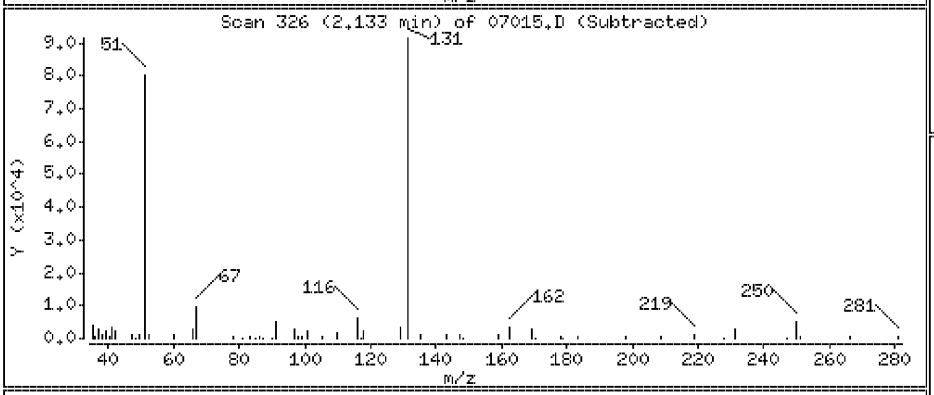
Column diameter: 0.32

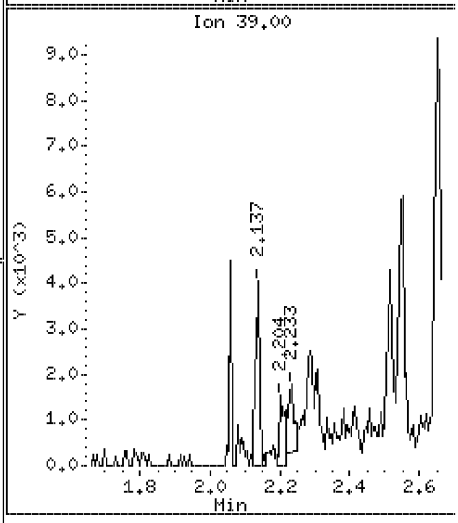
4 Propylene

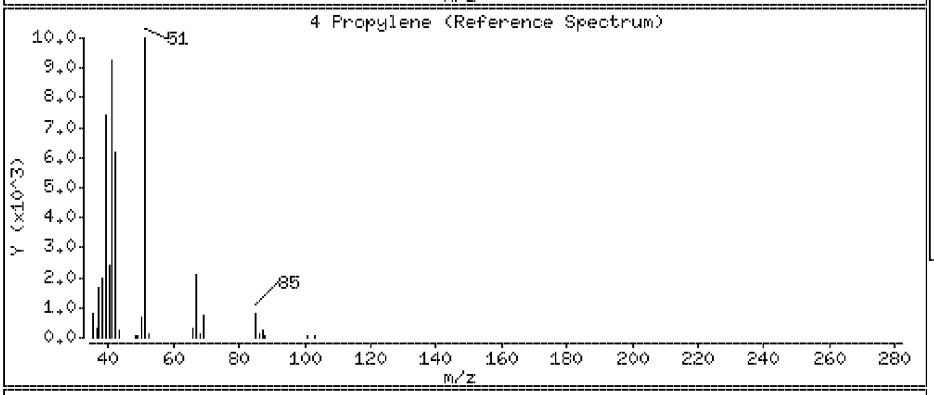
Concentration: 0.104 ppbv

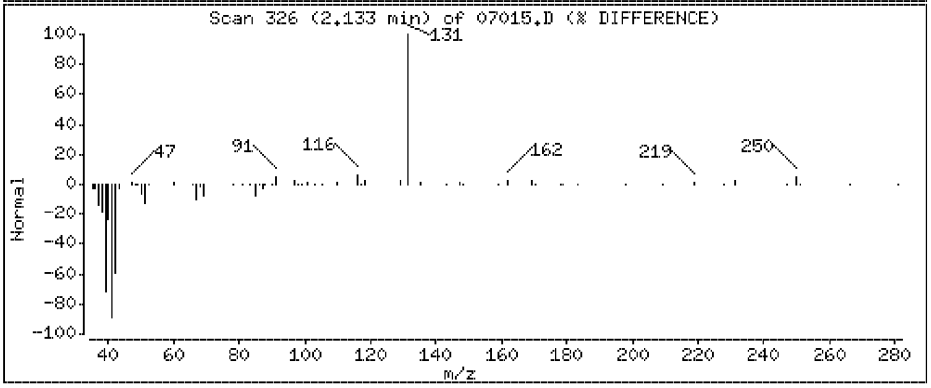












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

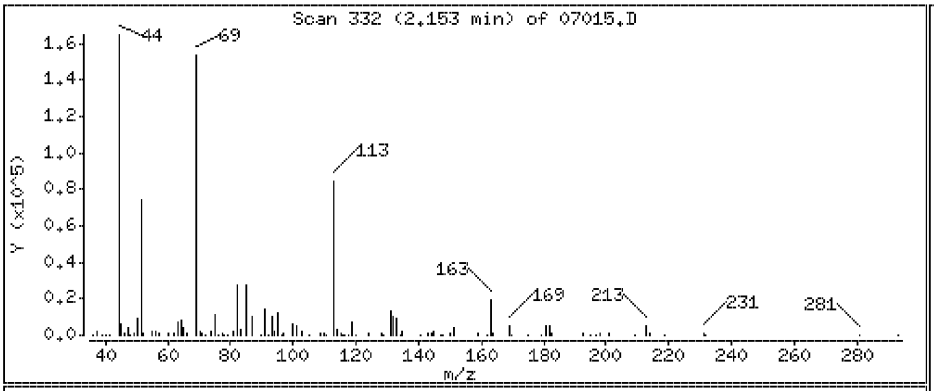
Operator: DR1

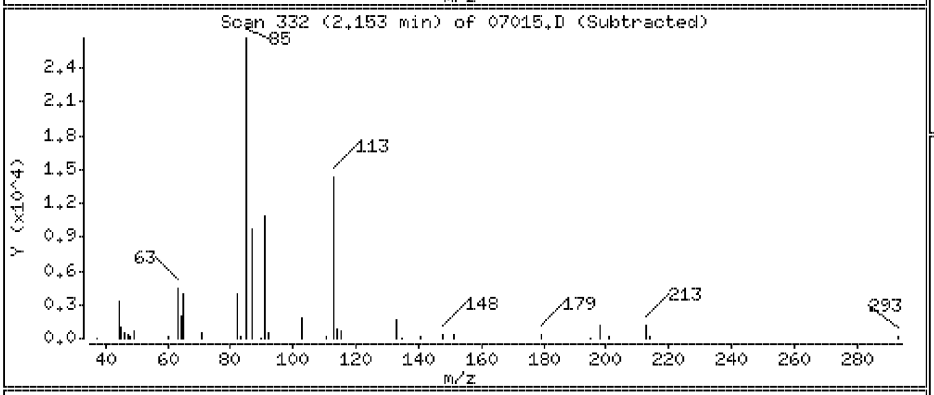
Column phase: J&W DB-5

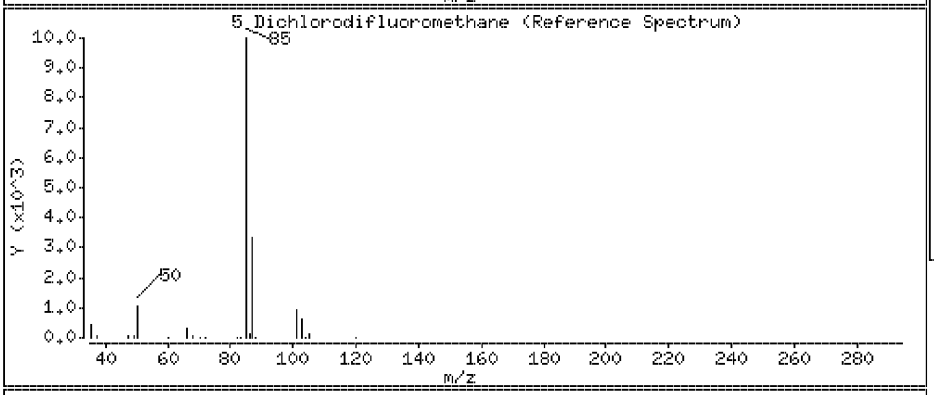
Column diameter: 0.32

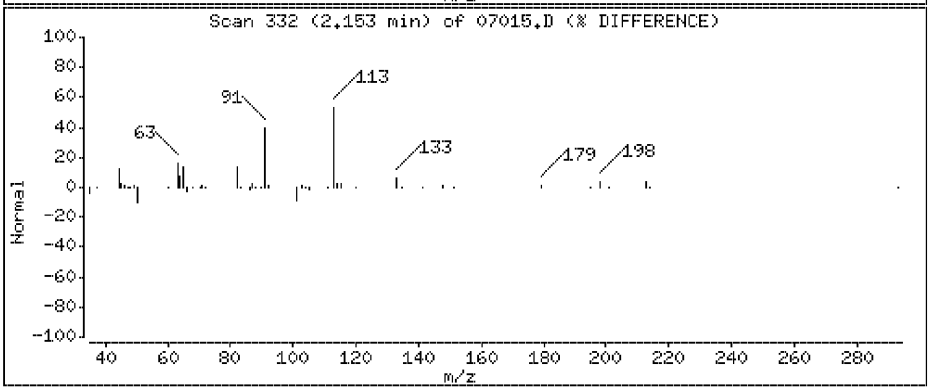
5 Dichlorodifluoromethane

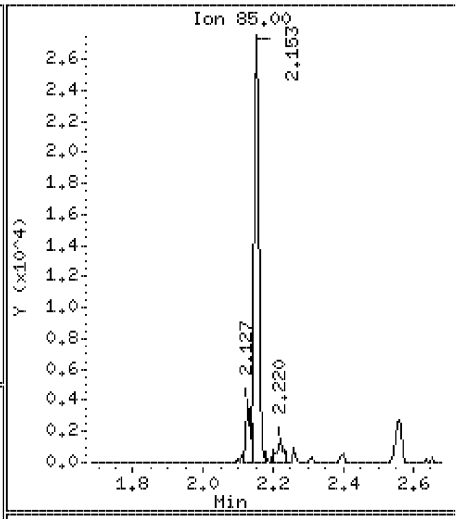
Concentration: 0.577 ppbv

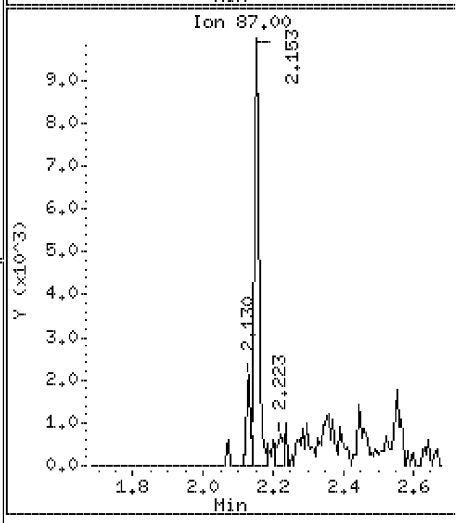












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

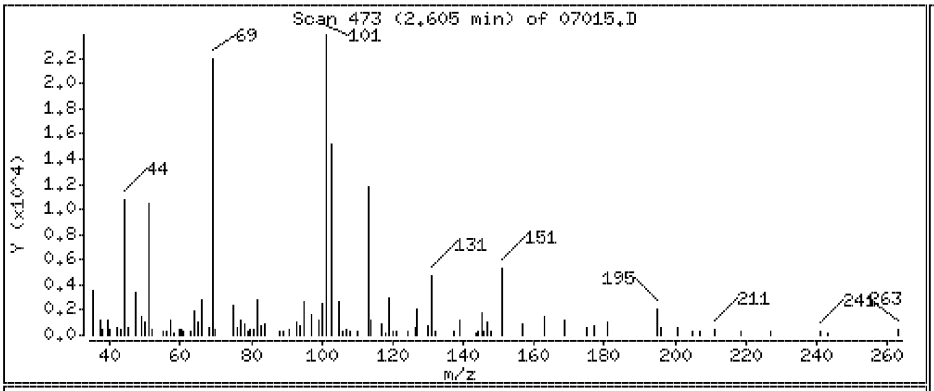
Operator: DR1

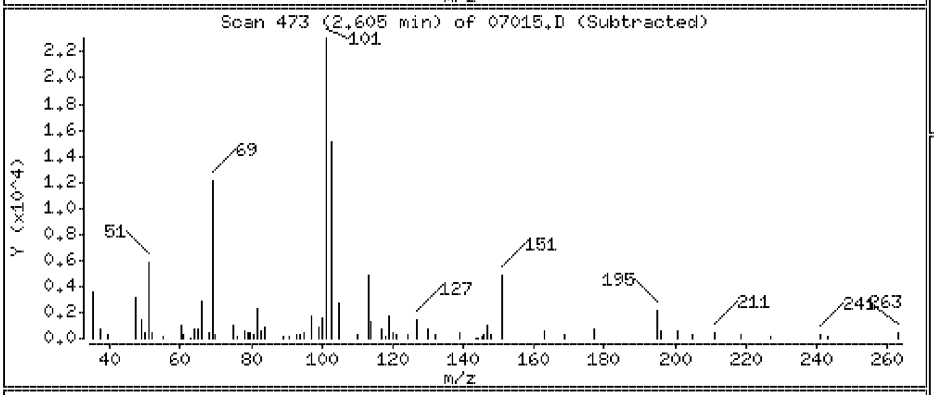
Column phase: J&W DB-5

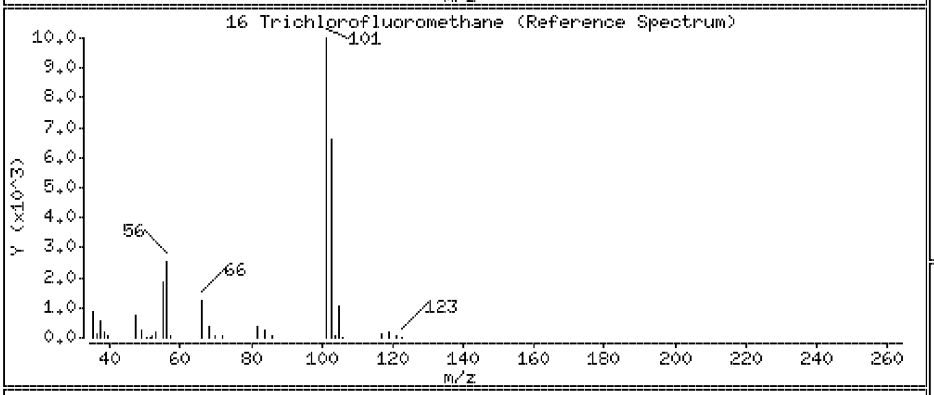
Column diameter: 0.32

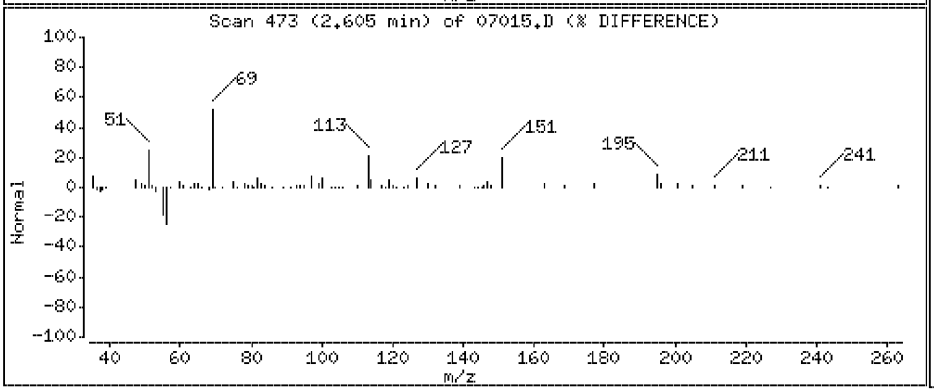
16 Trichlorofluoromethane

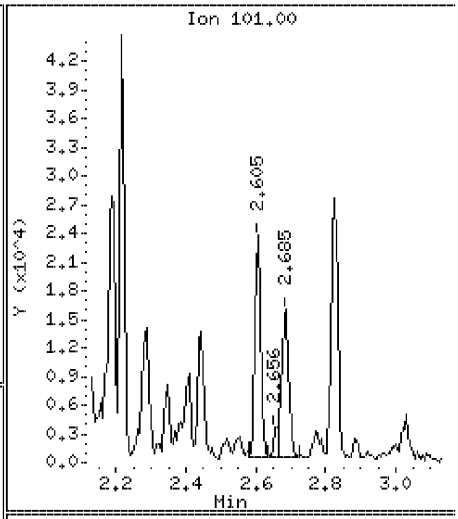
Concentration: 0.624 ppbv

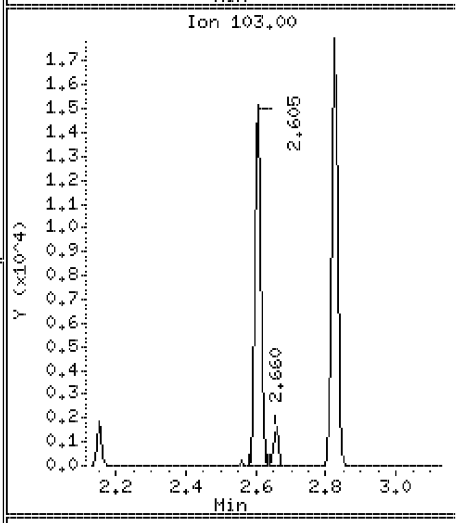


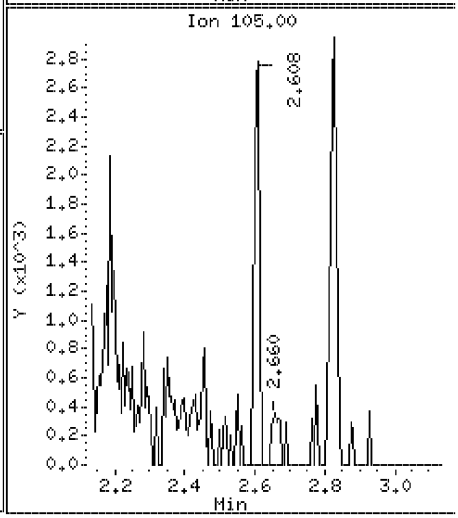












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

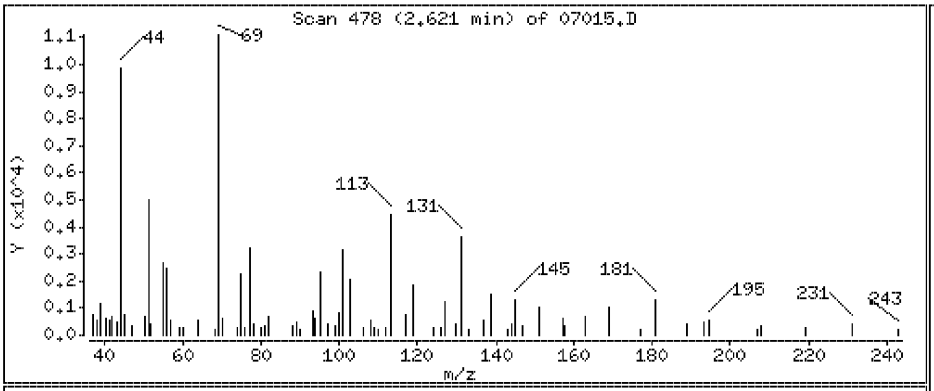
Operator: DR1

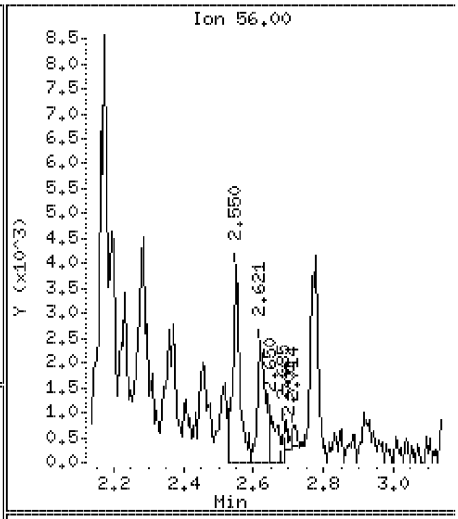
Column phase: J&W DB-5

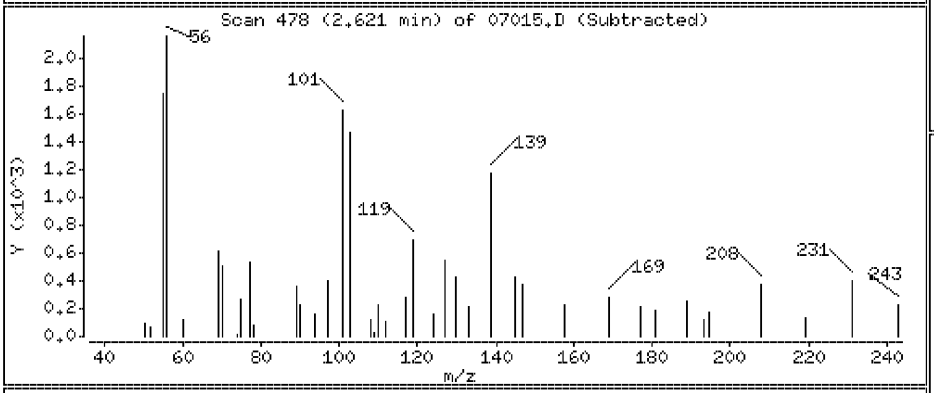
Column diameter: 0.32

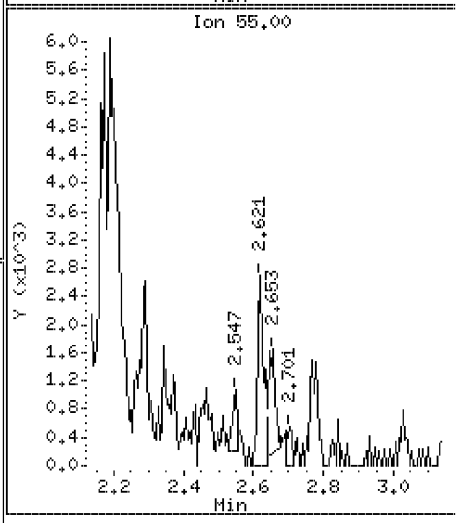
17 Acrolein

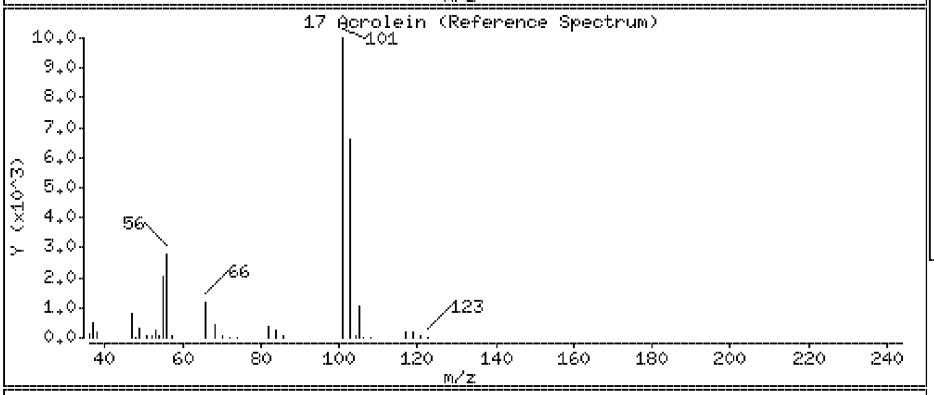
Concentration: 1.53 ppbv

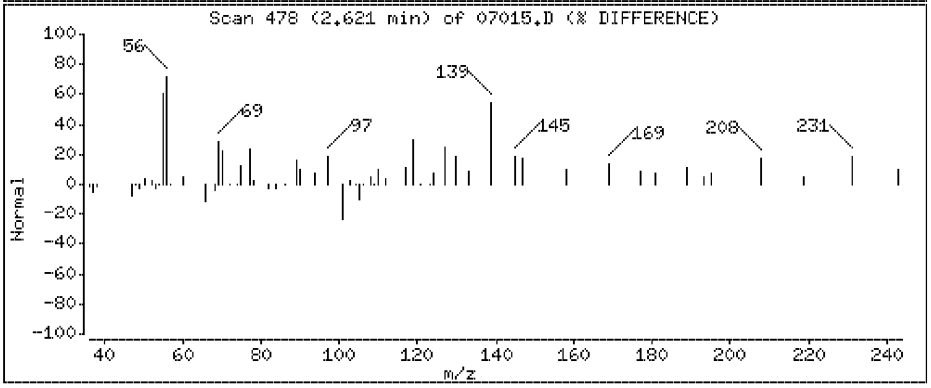












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

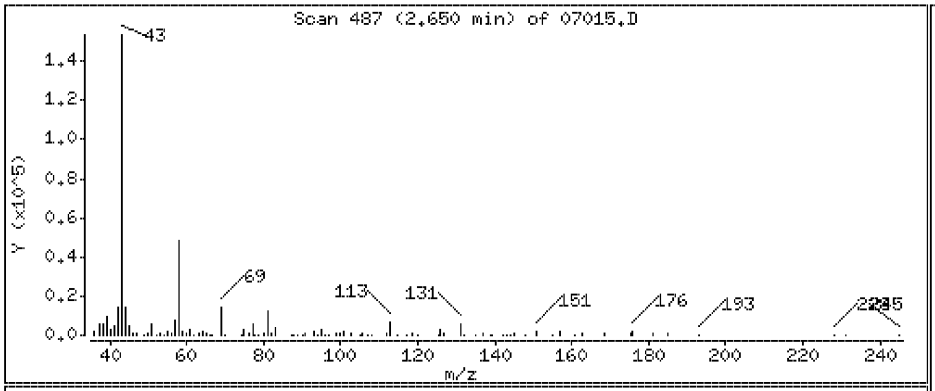
Operator: DR1

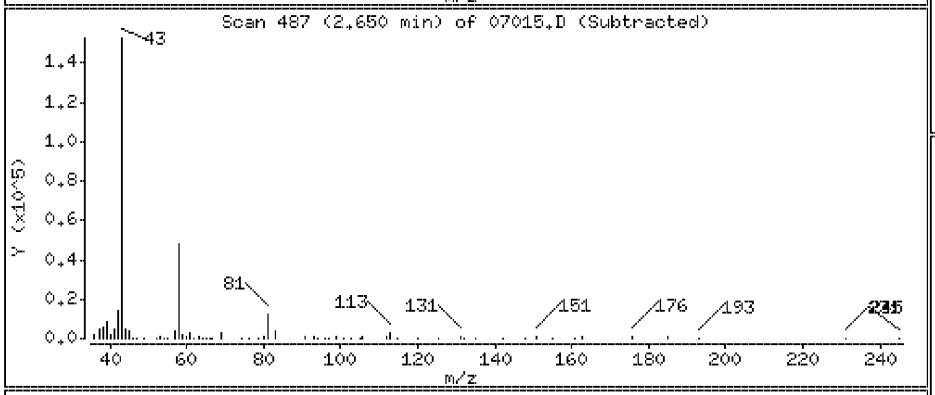
Column phase: J&W DB-5

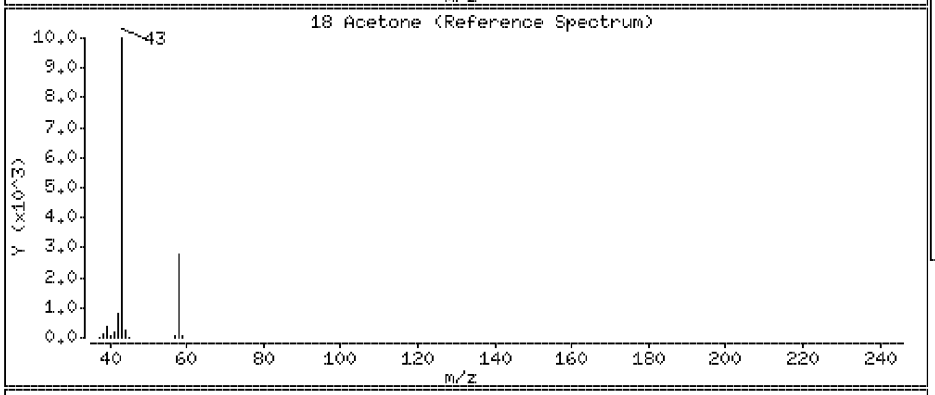
Column diameter: 0.32

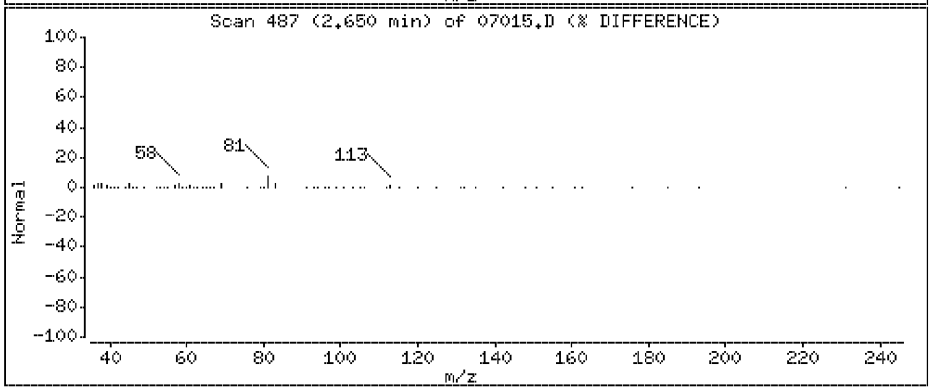
18 Acetone

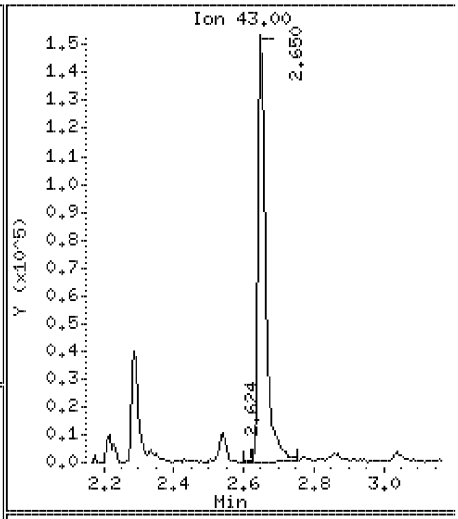
Concentration: 9.05 ppbv

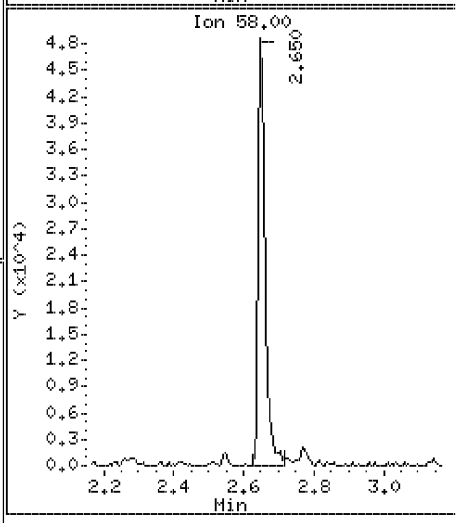












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

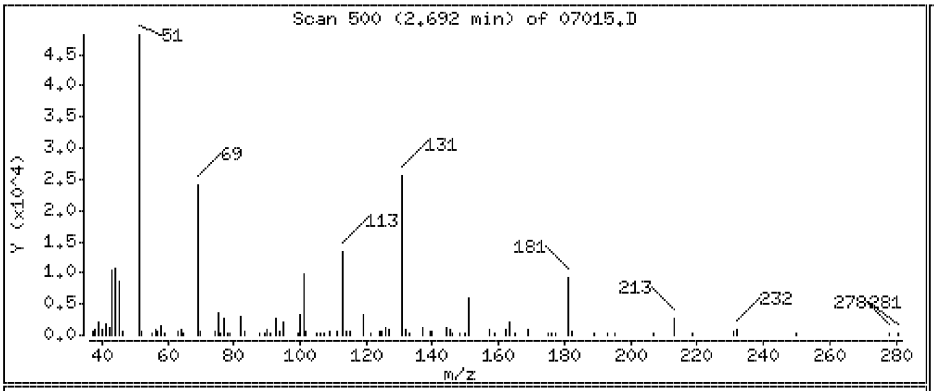
Operator: DR1

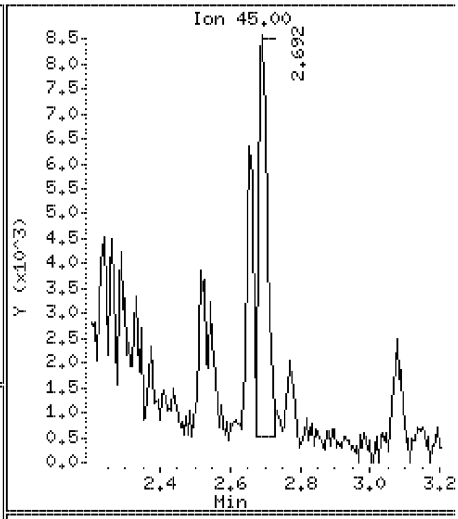
Column phase: J&W DB-5

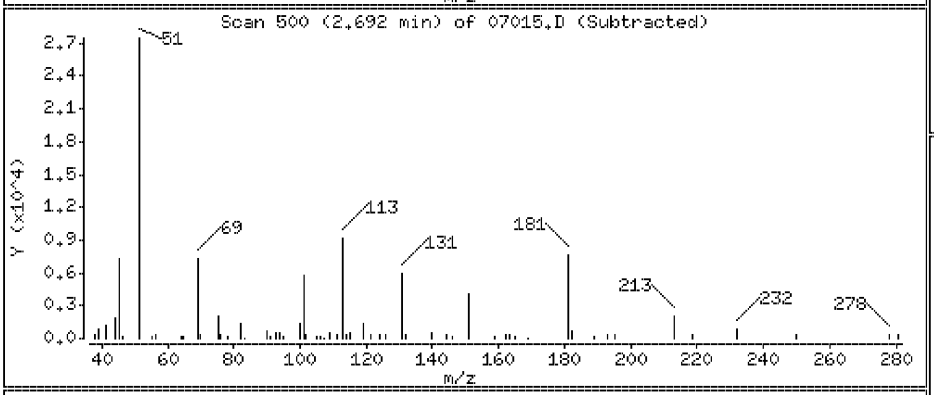
Column diameter: 0.32

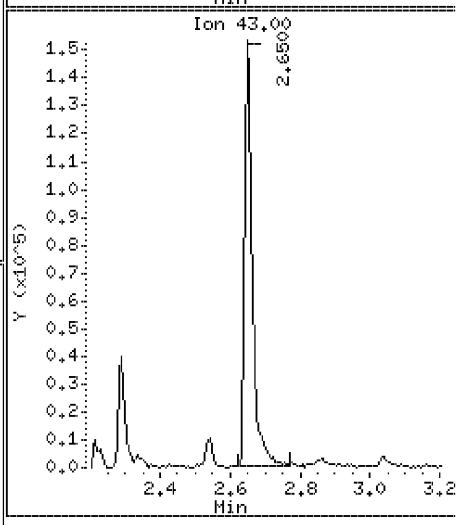
19 Isopropyl Alcohol

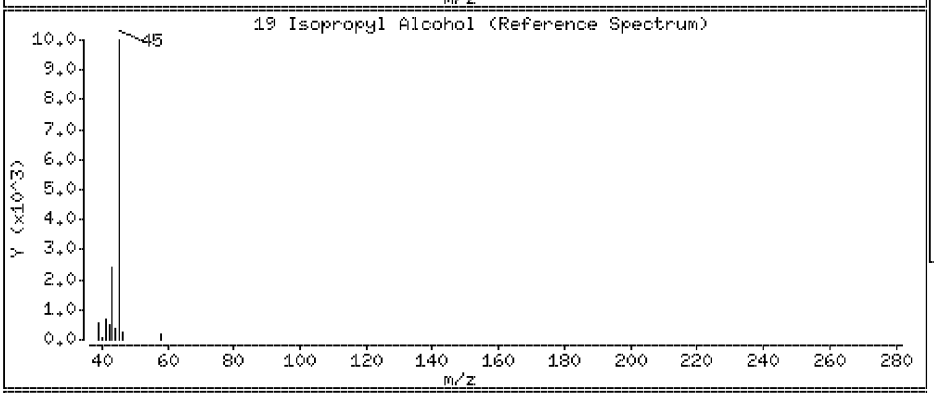
Concentration: 0.935 ppbv

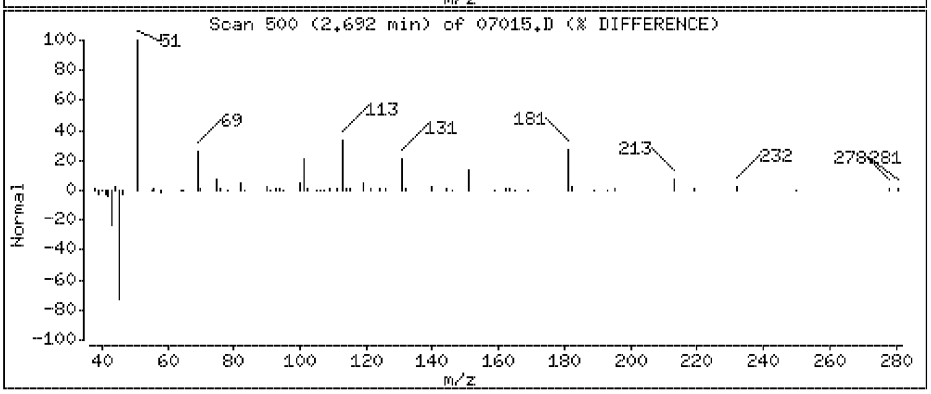












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

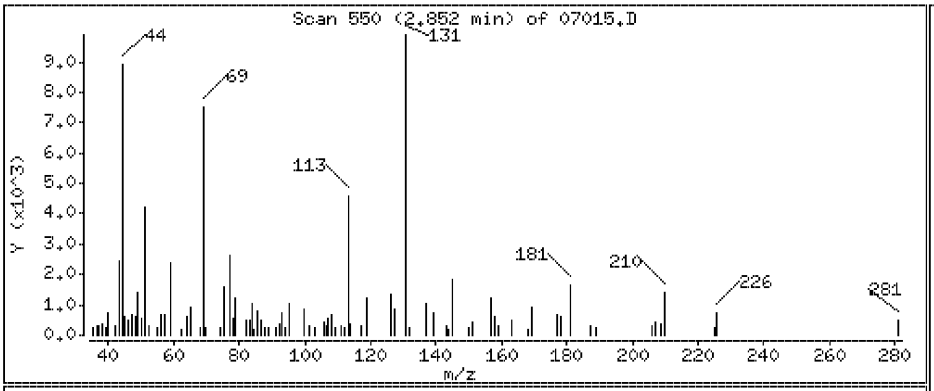
Operator: DR1

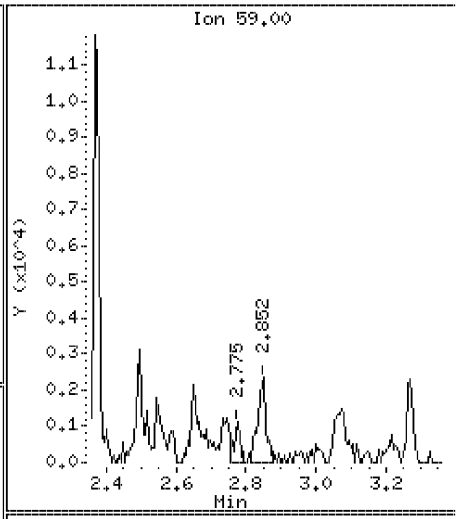
Column phase: J&W DB-5

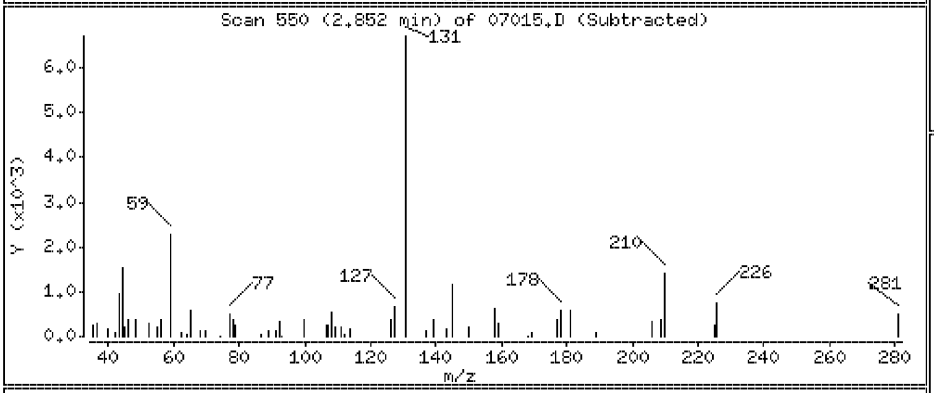
Column diameter: 0.32

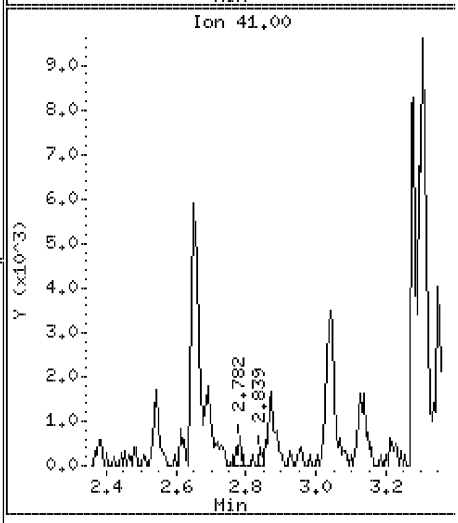
24 Tert Butyl Alcohol (TBA)

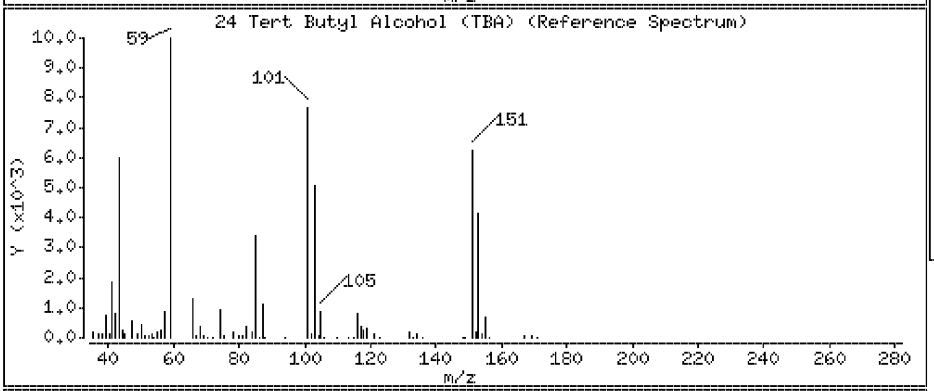
Concentration: 0.189 ppbv

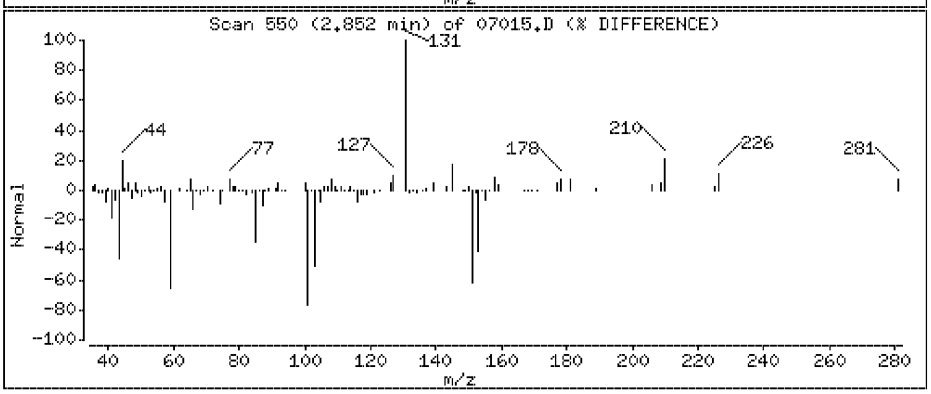












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

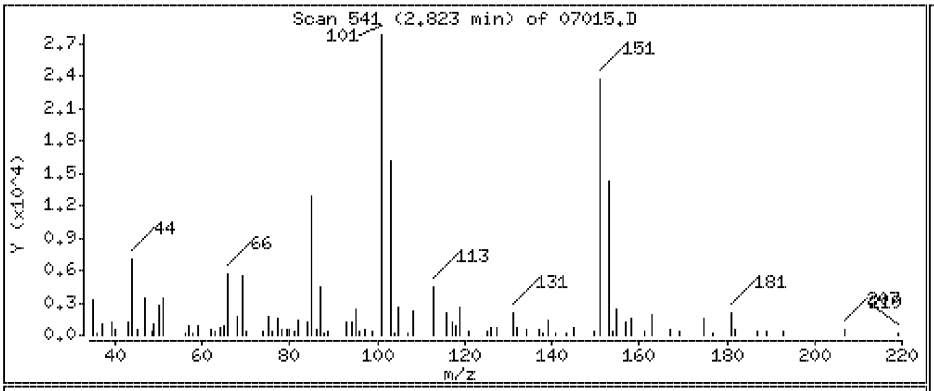
Operator: DR1

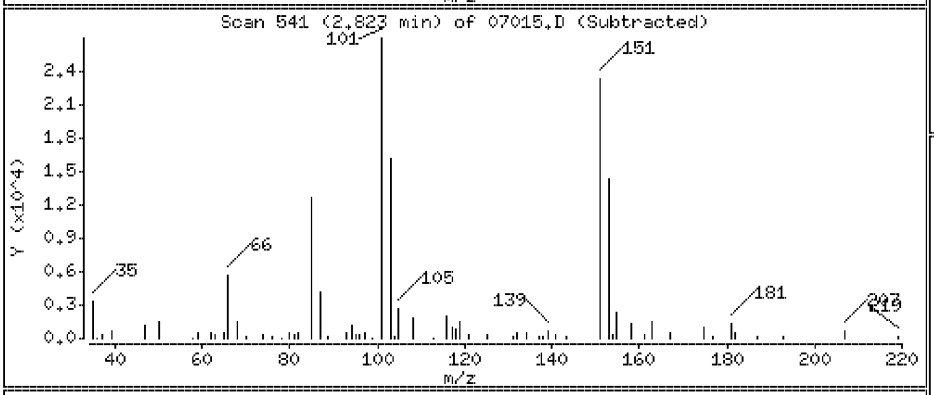
Column phase: J&W DB-5

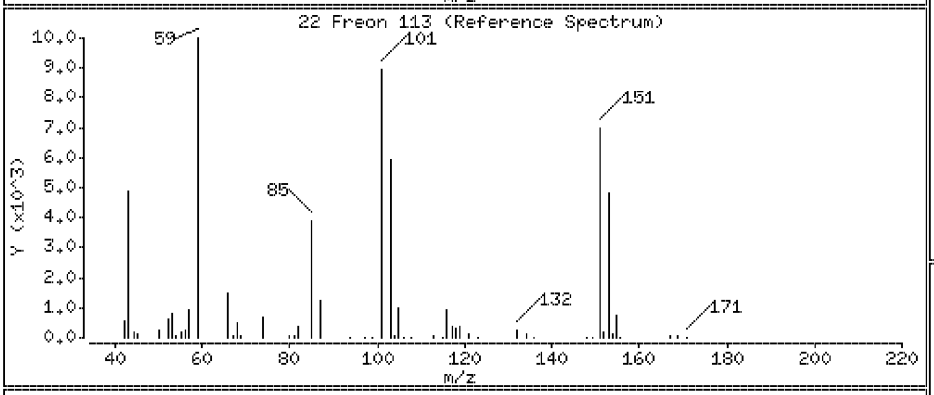
Column diameter: 0.32

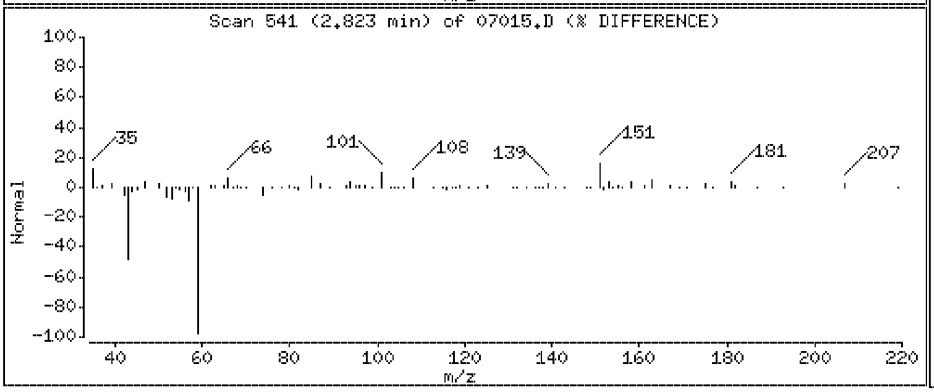
22 Freon 113

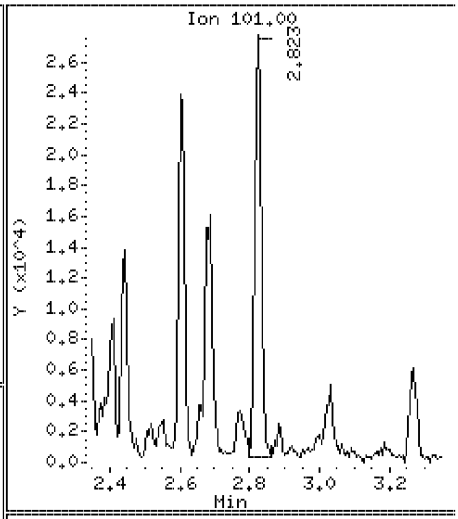
Concentration: 1.05 ppbv

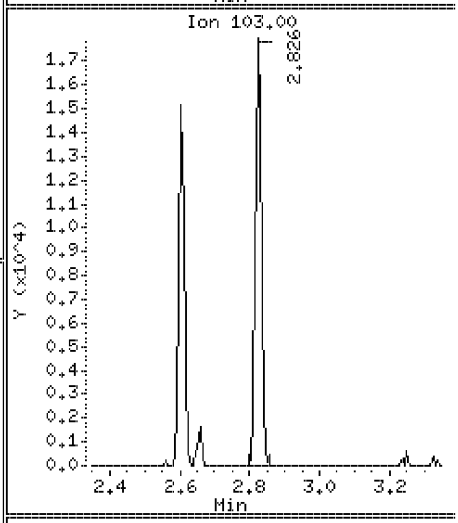


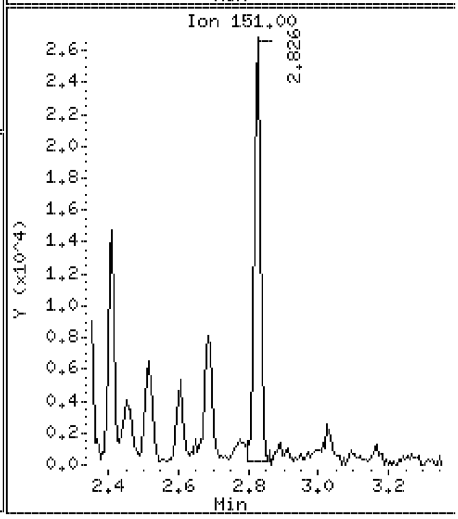












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

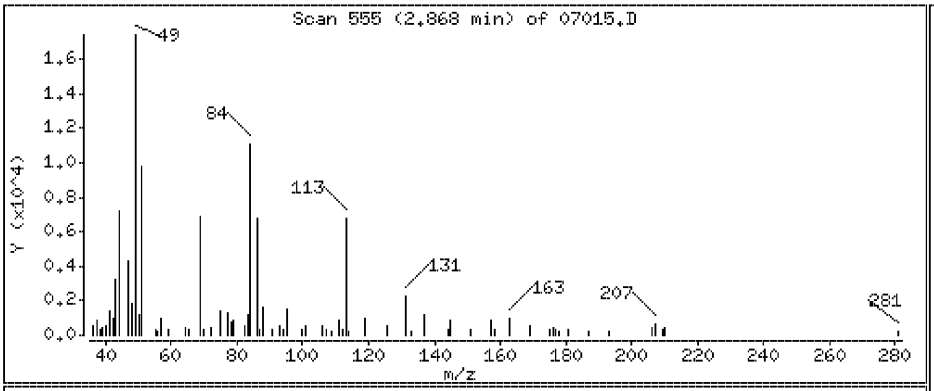
Operator: DR1

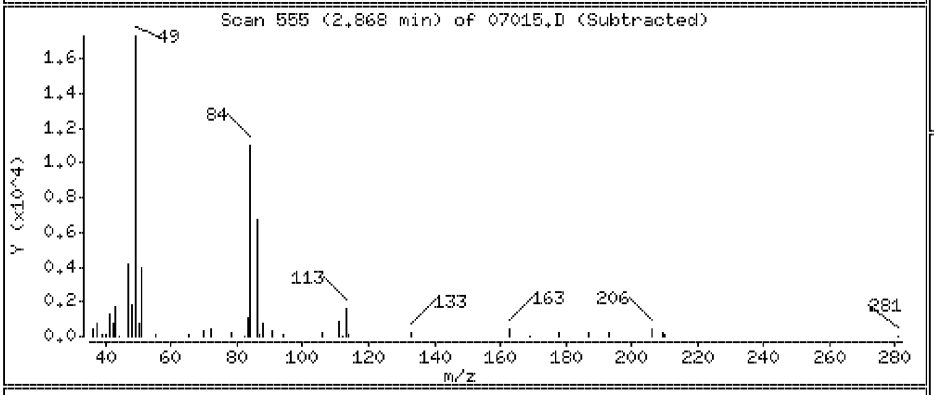
Column phase: J&W DB-5

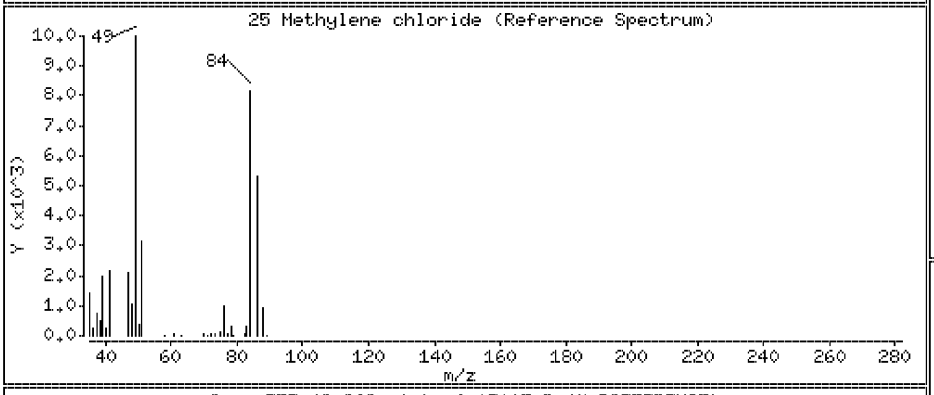
Column diameter: 0.32

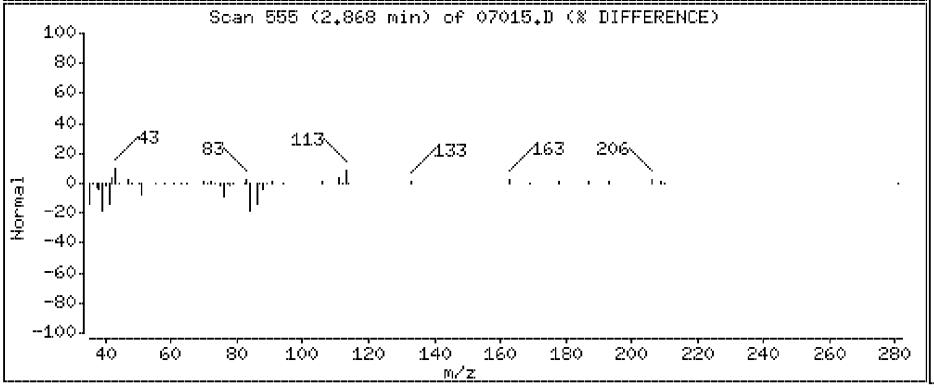
25 Methylene chloride

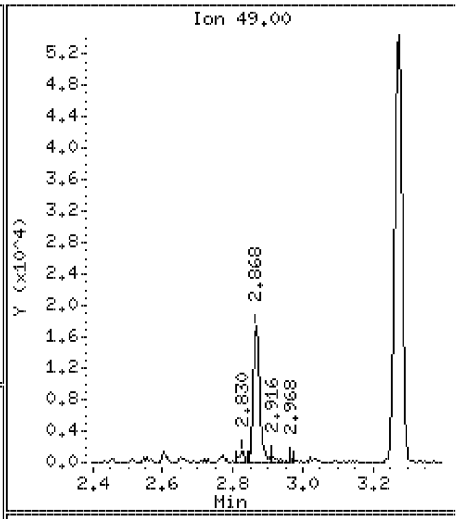
Concentration: 0.564 ppbv

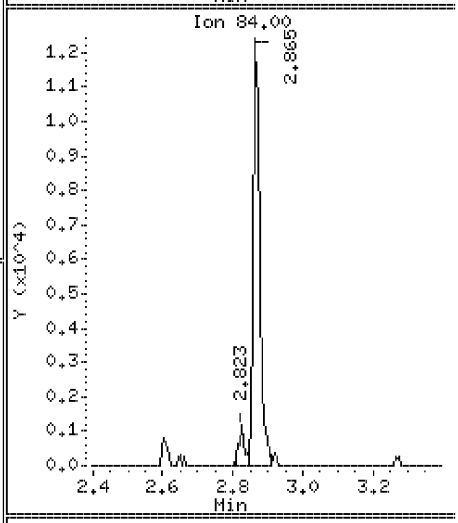


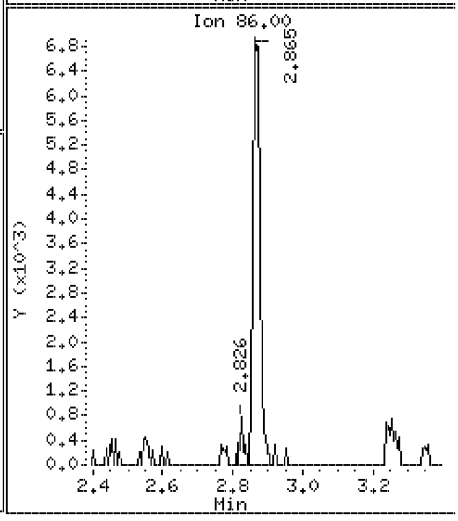












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

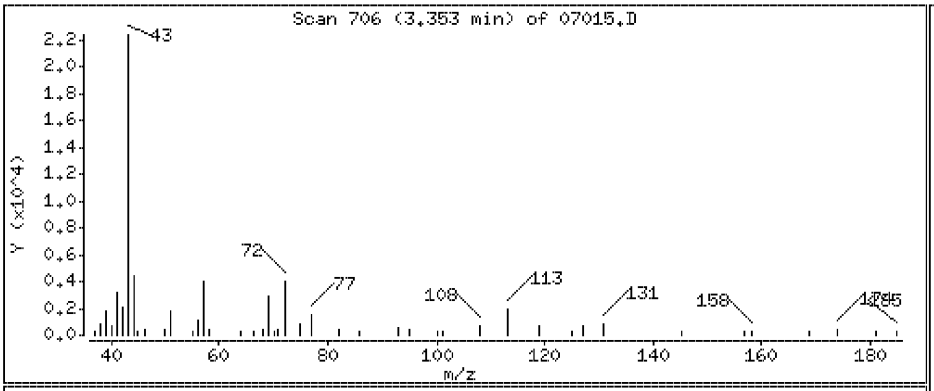
Operator: DR1

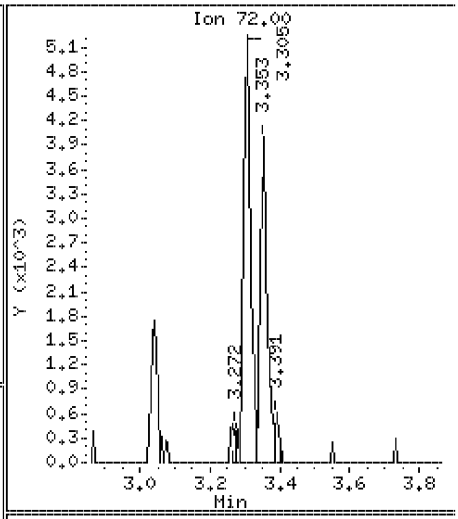
Column phase: J&W DB-5

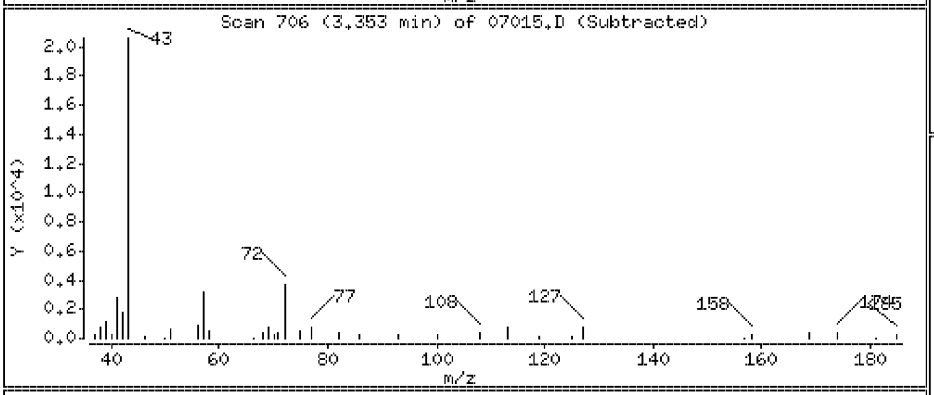
Column diameter: 0.32

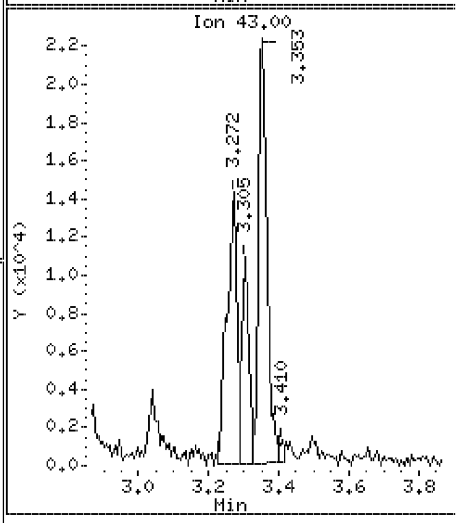
33 Methyl Ethyl Ketone

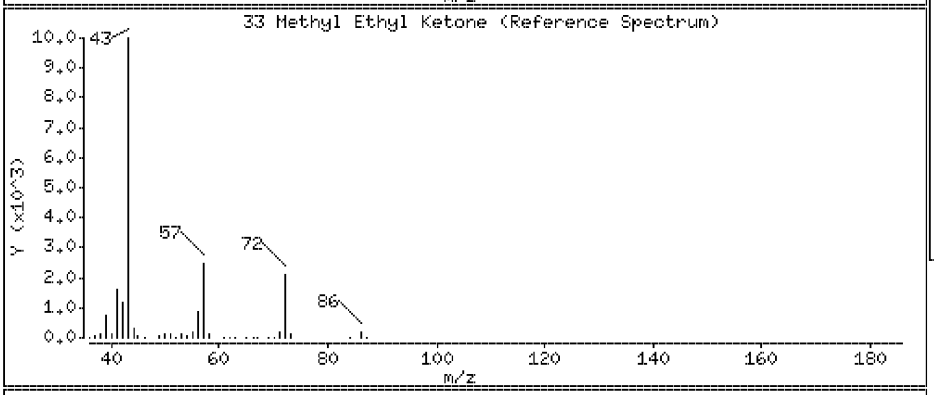
Concentration: 0.893 ppbv

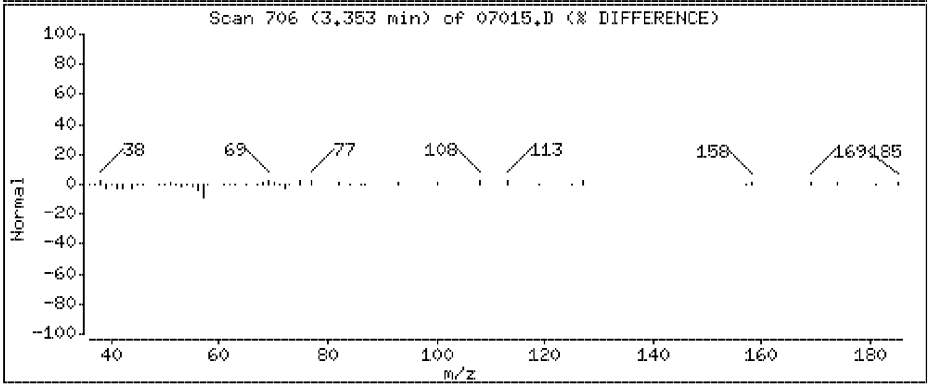












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

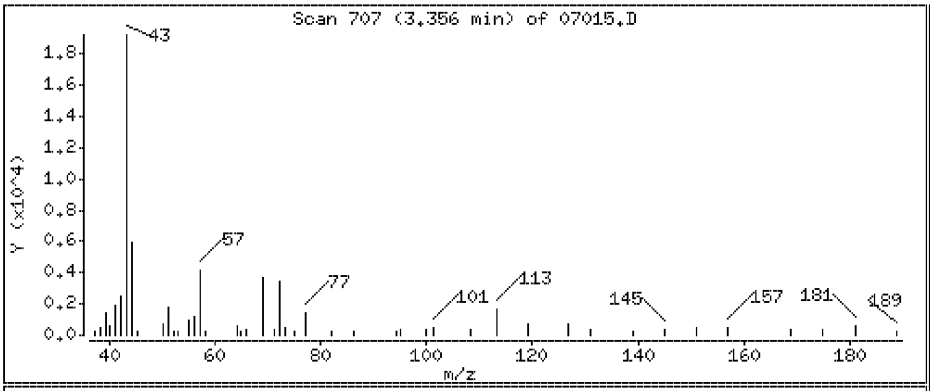
Operator: DR1

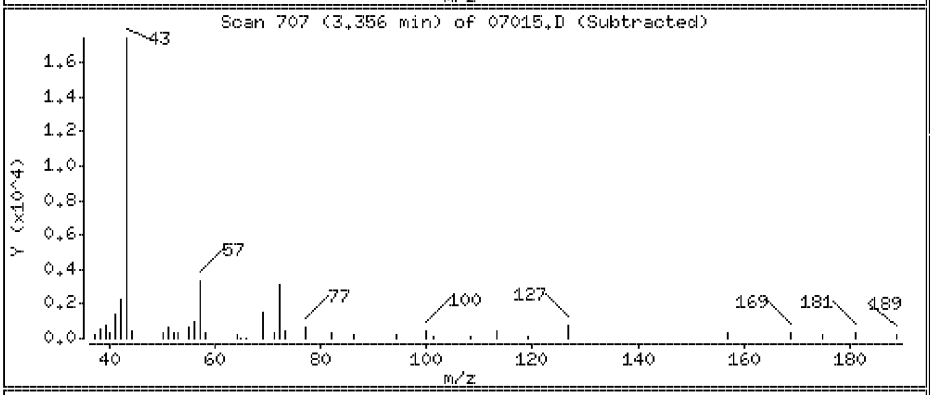
Column phase: J&W DB-5

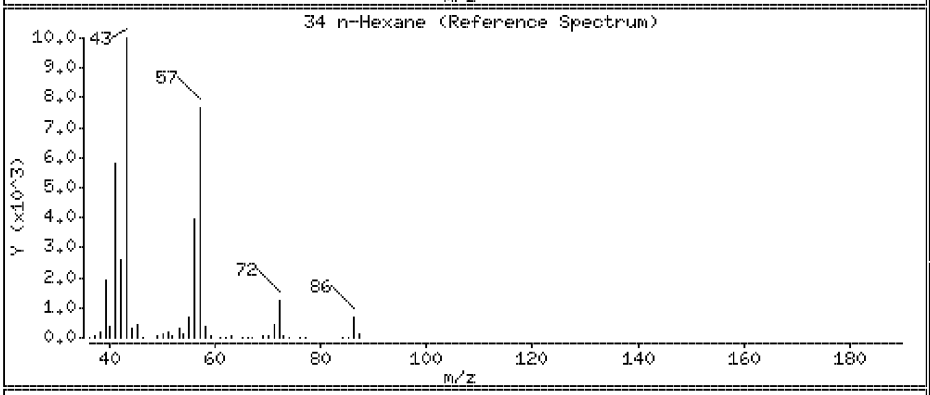
Column diameter: 0.32

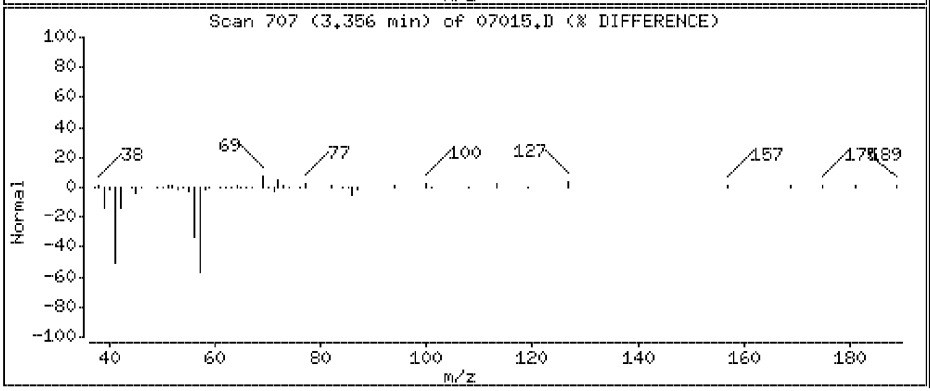
34 n-Hexane

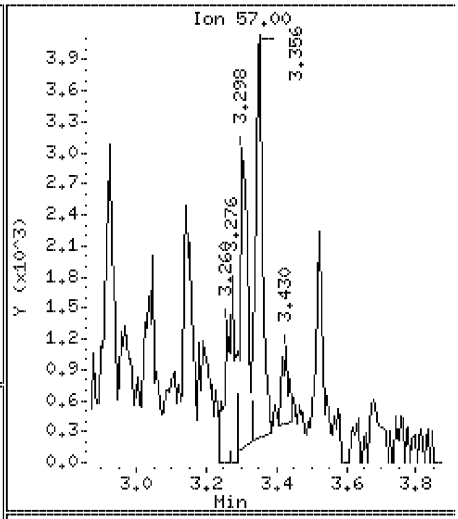
Concentration: 0.244 ppbv

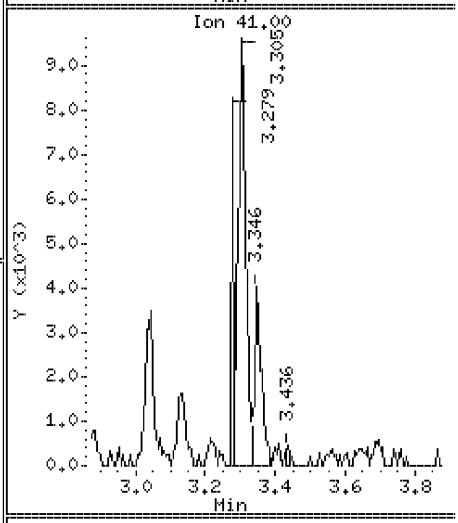


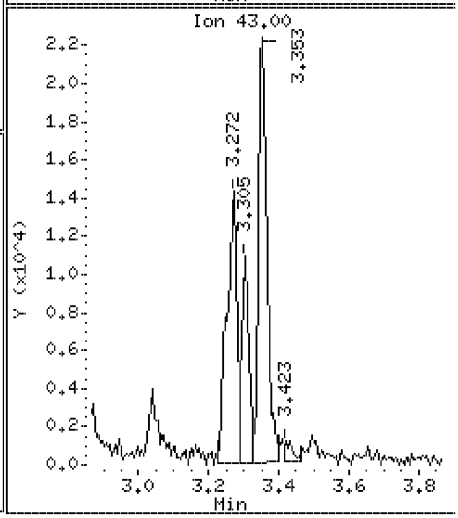












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

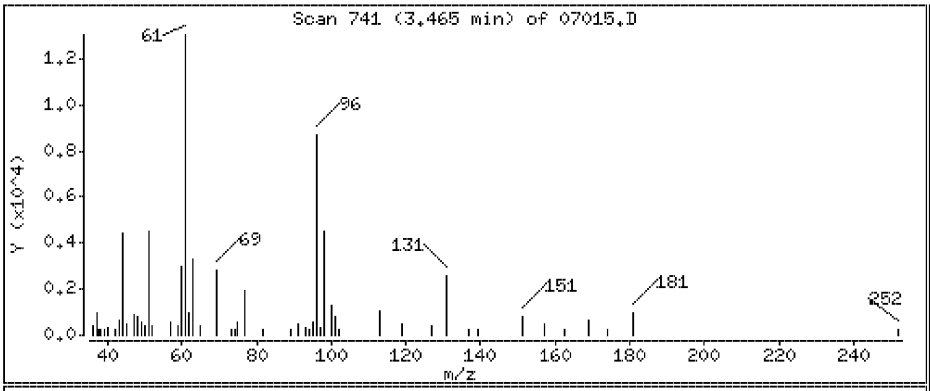
Operator: DR1

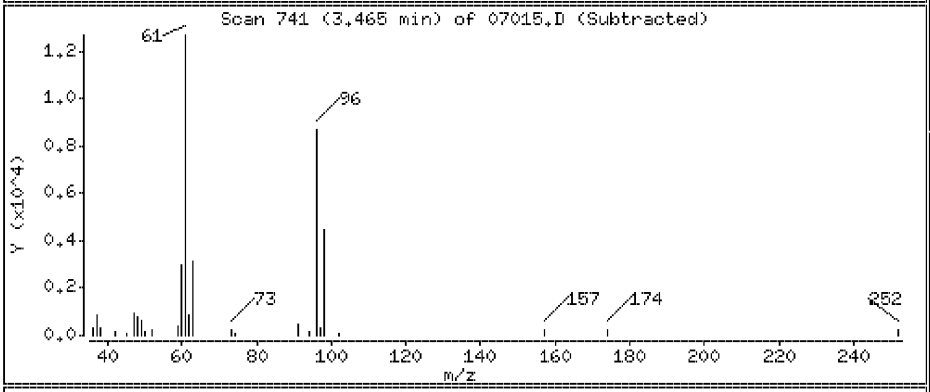
Column phase: J&W DB-5

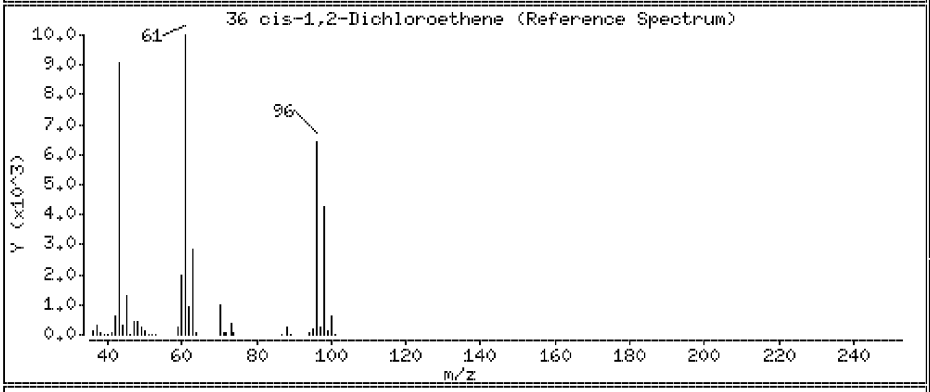
Column diameter: 0.32

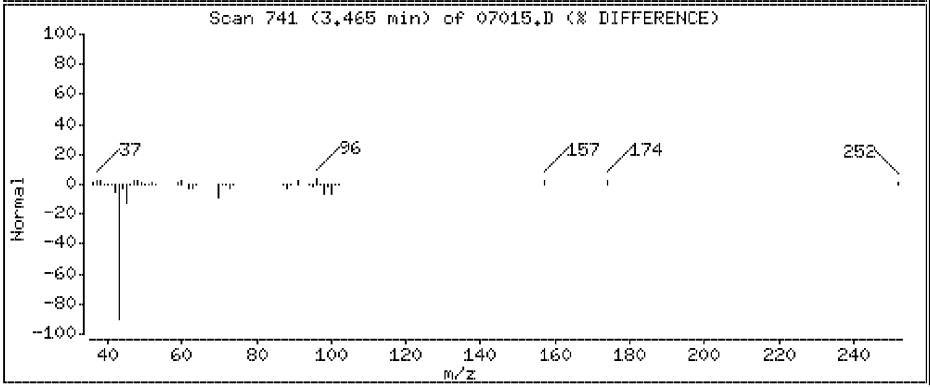
36 cis-1,2-Dichloroethene

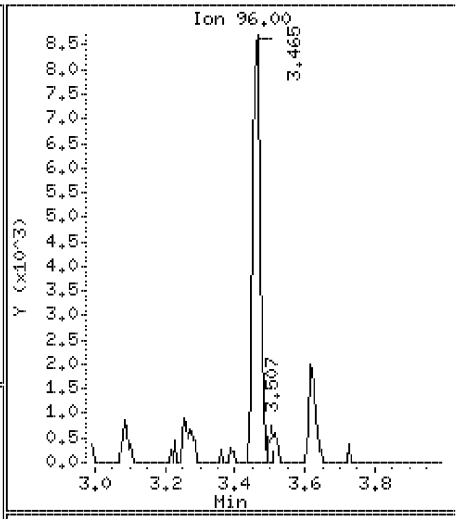
Concentration: 0.915 ppbv

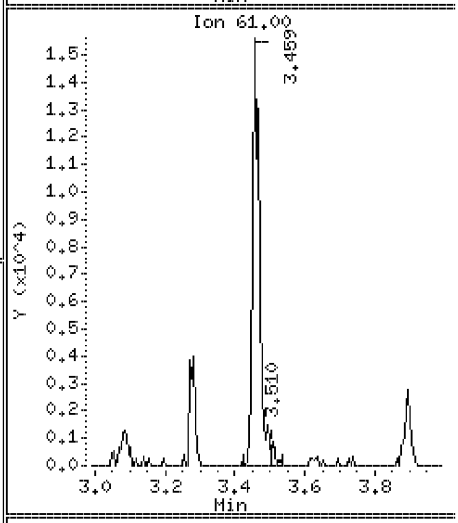


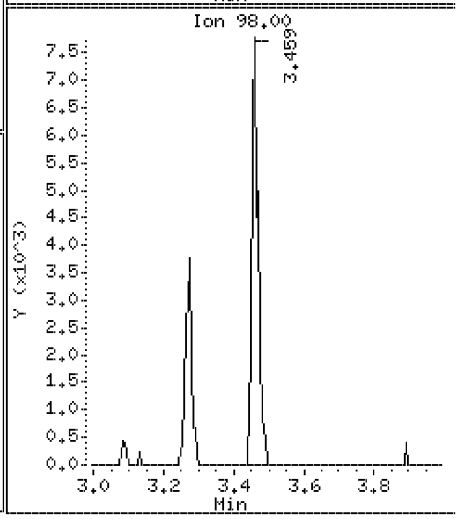












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

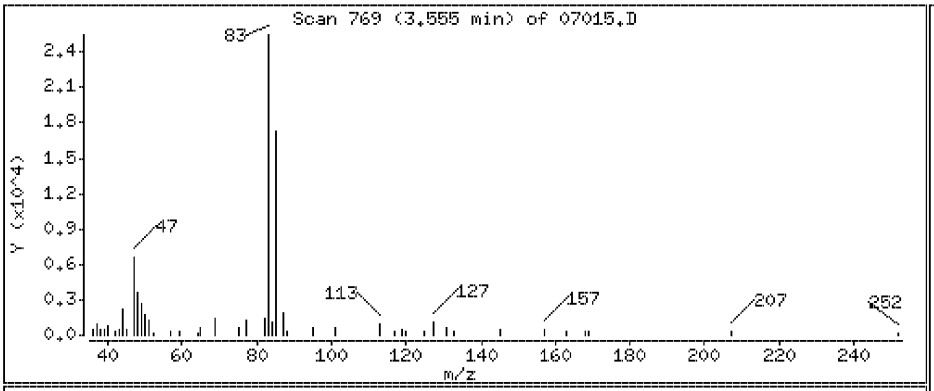
Operator: DR1

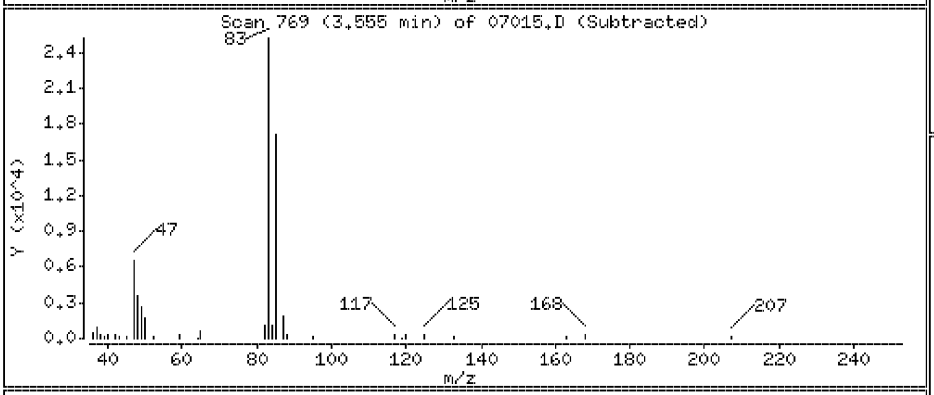
Column phase: J&W DB-5

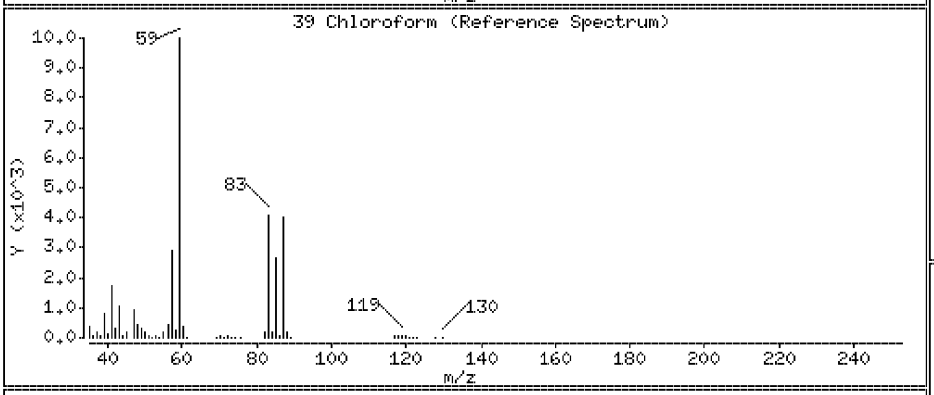
Column diameter: 0.32

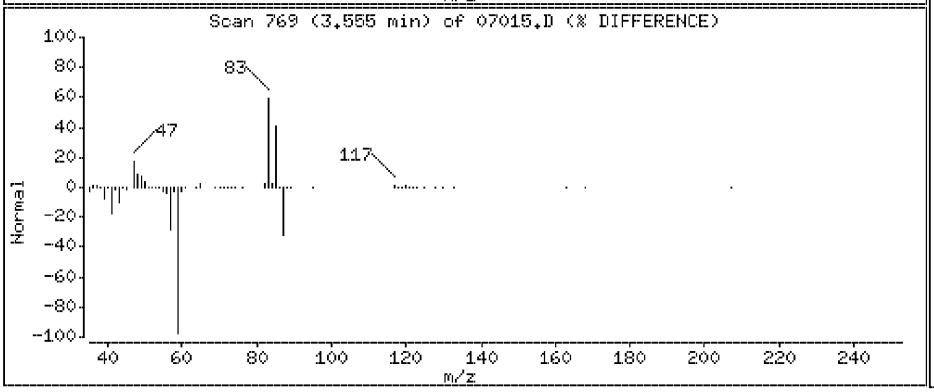
39 Chloroform

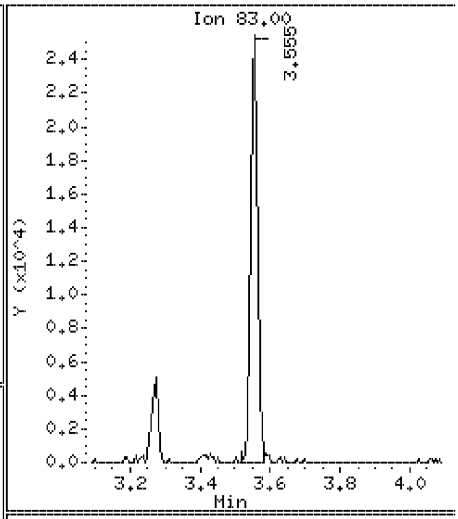
Concentration: 1.02 ppbv

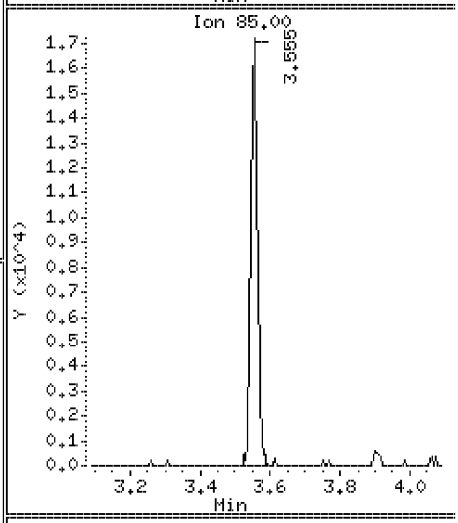


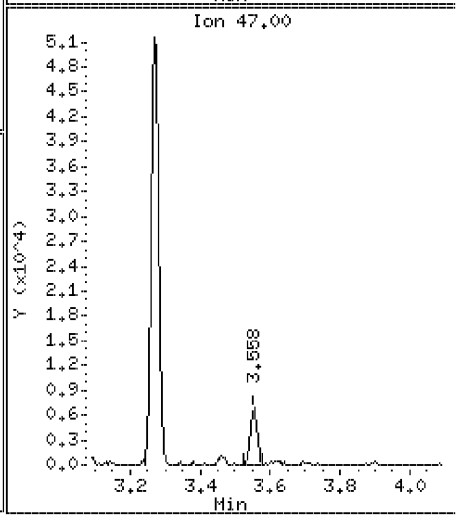












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

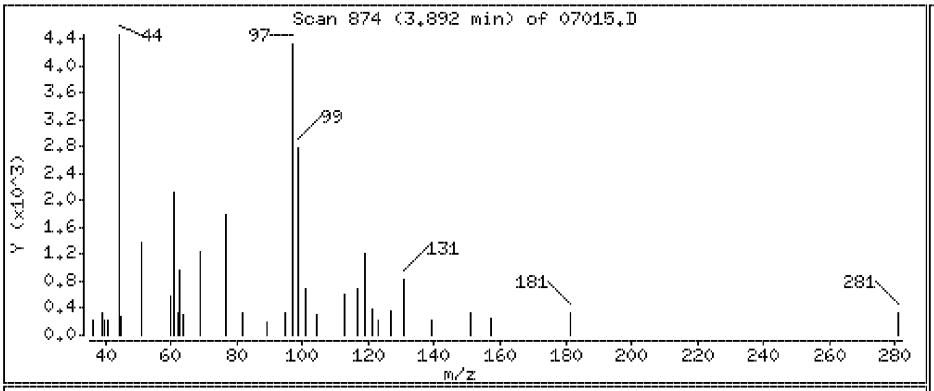
Operator: DR1

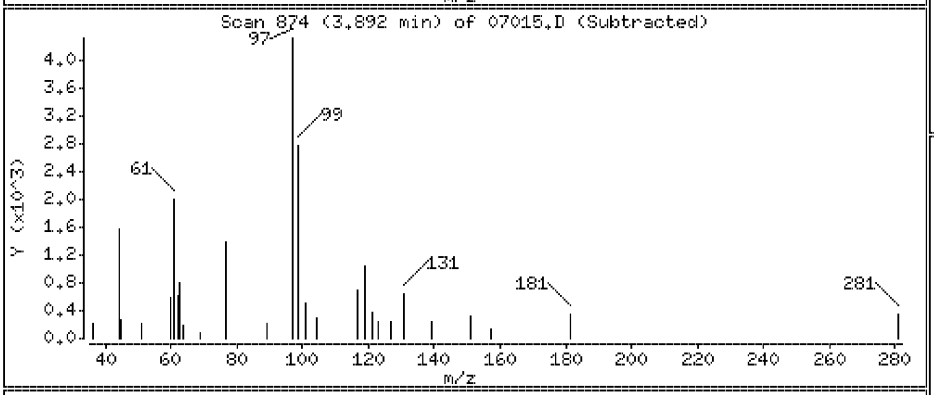
Column phase: J&W DB-5

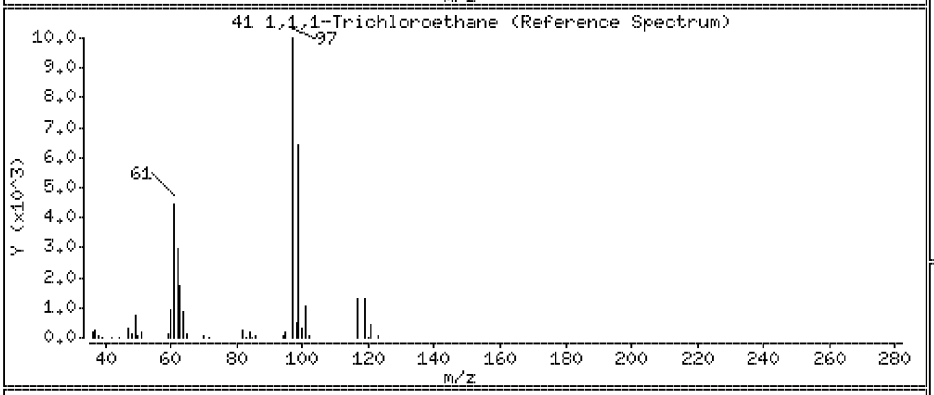
Column diameter: 0.32

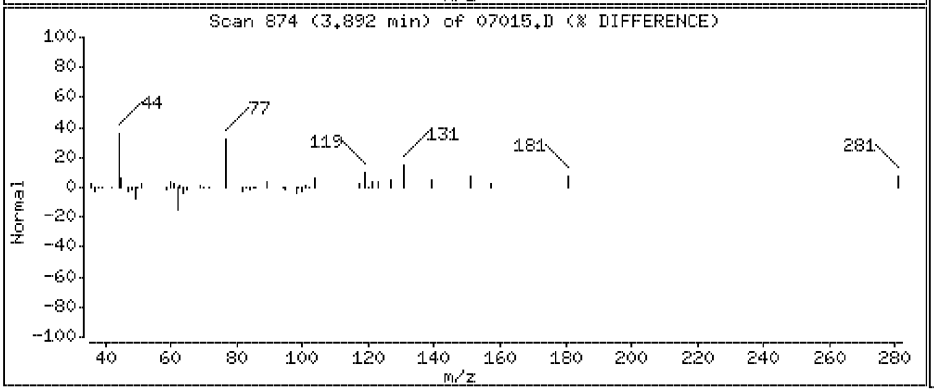
41 1,1,1-Trichloroethane

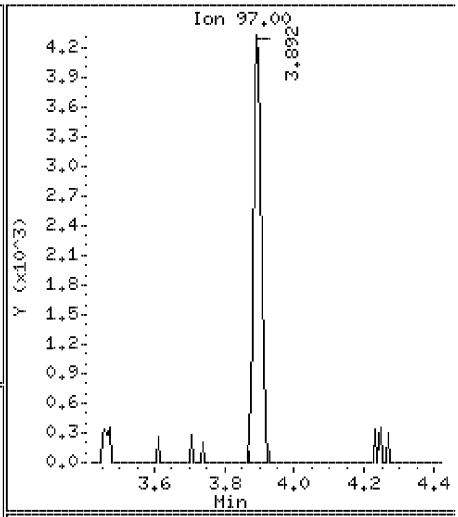
Concentration: 0.193 ppbv

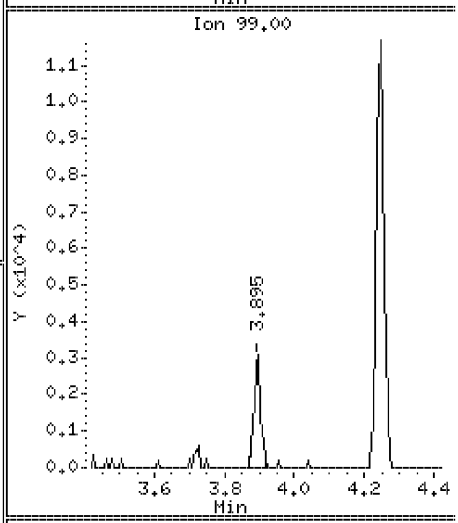


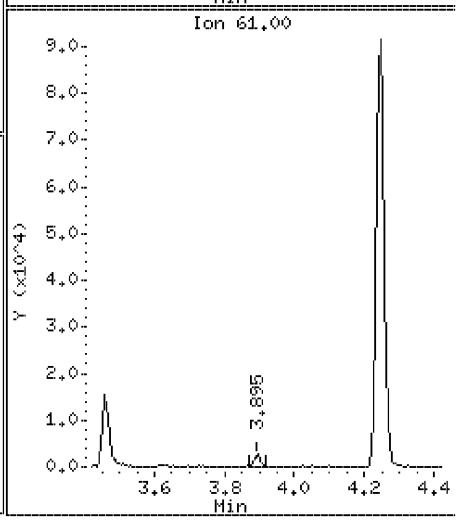












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

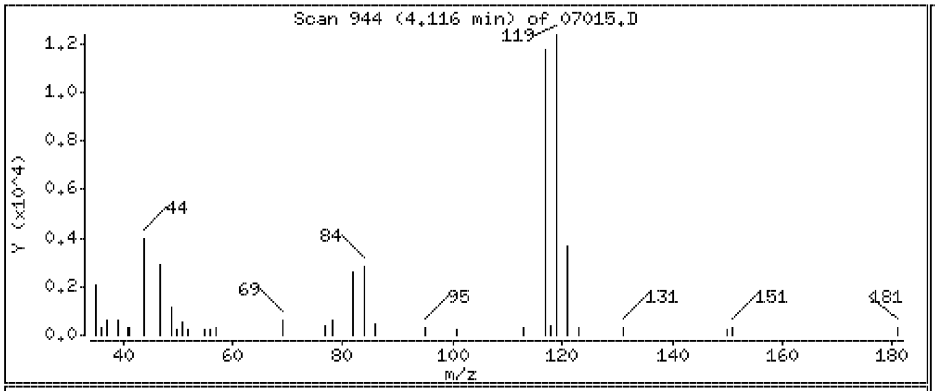
Operator: DR1

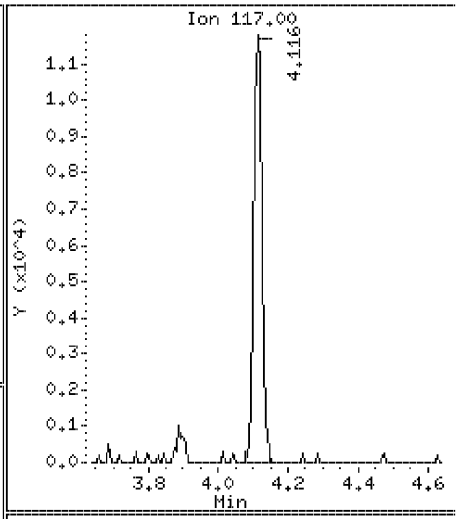
Column phase: J&W DB-5

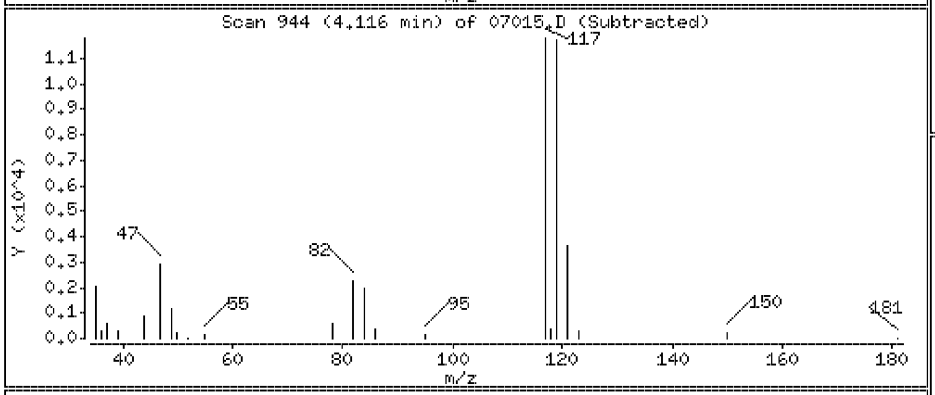
Column diameter: 0.32

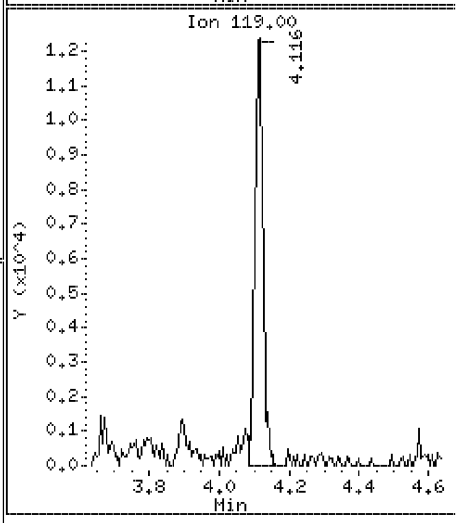
45 Carbon tetrachloride

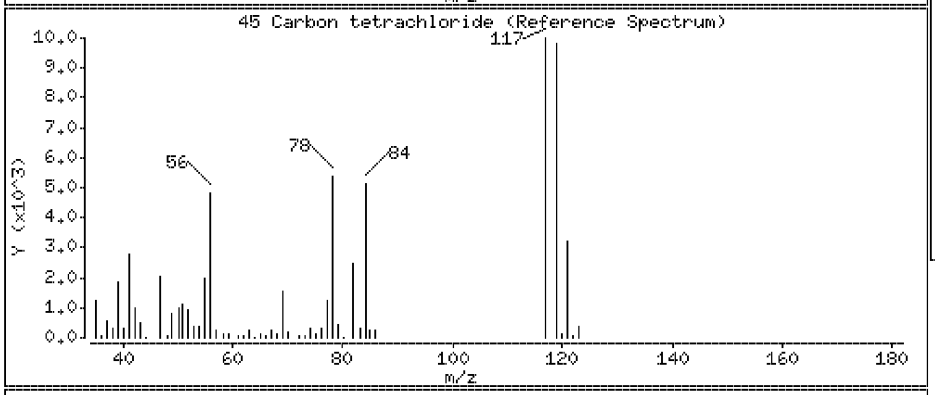
Concentration: 0.582 ppbv

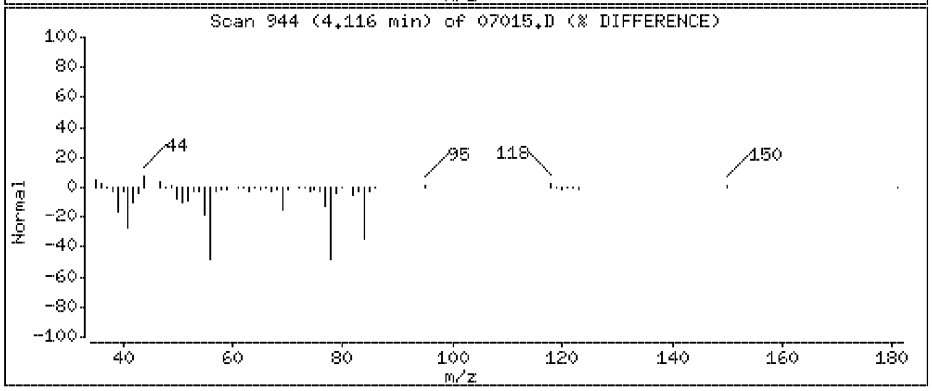












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

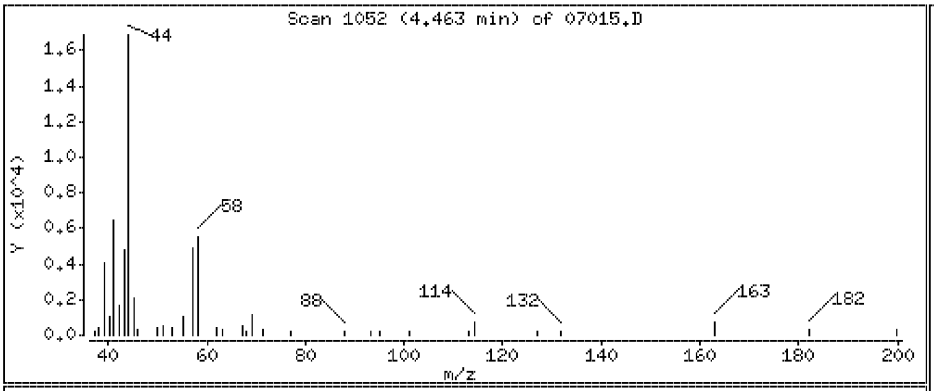
Operator: DR1

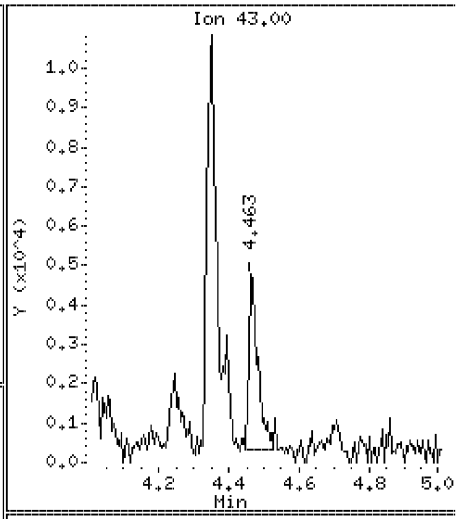
Column phase: J&W DB-5

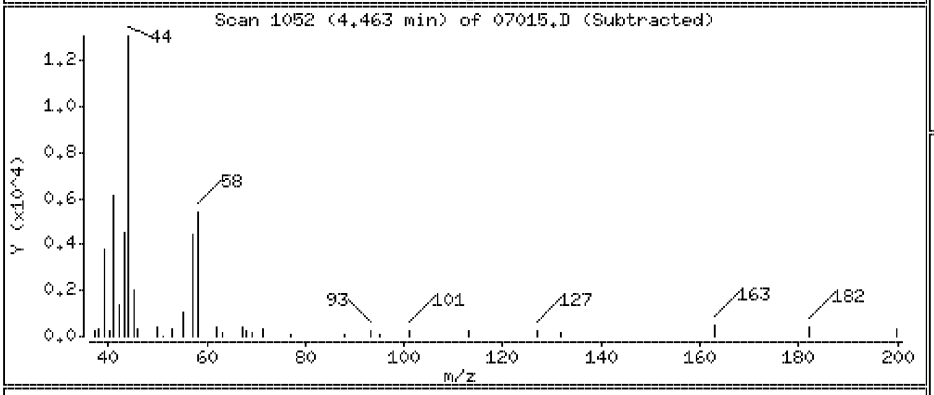
Column diameter: 0.32

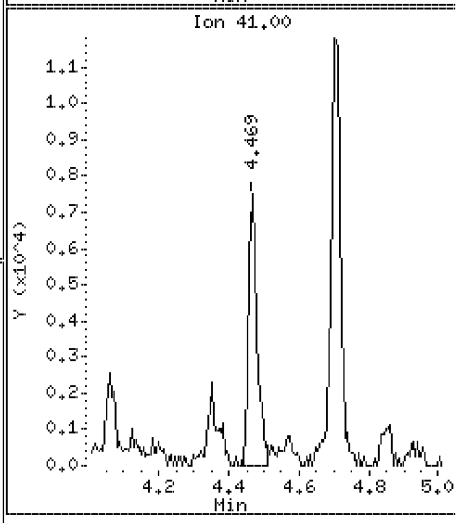
49 Heptane

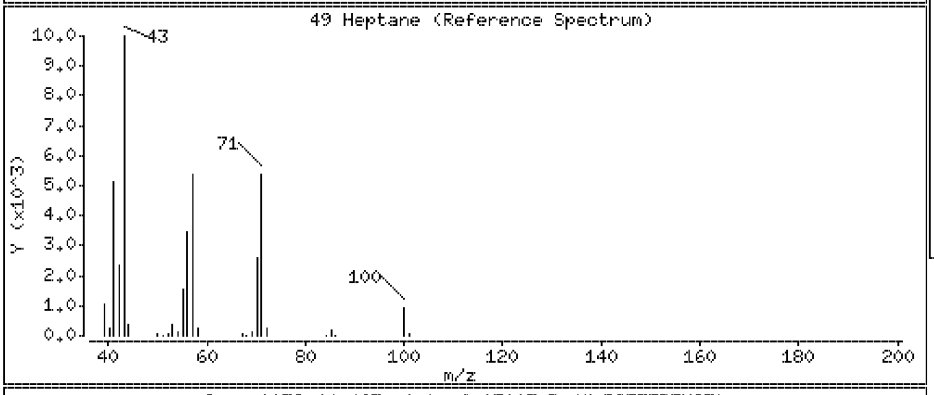
Concentration: 0.241 ppbv

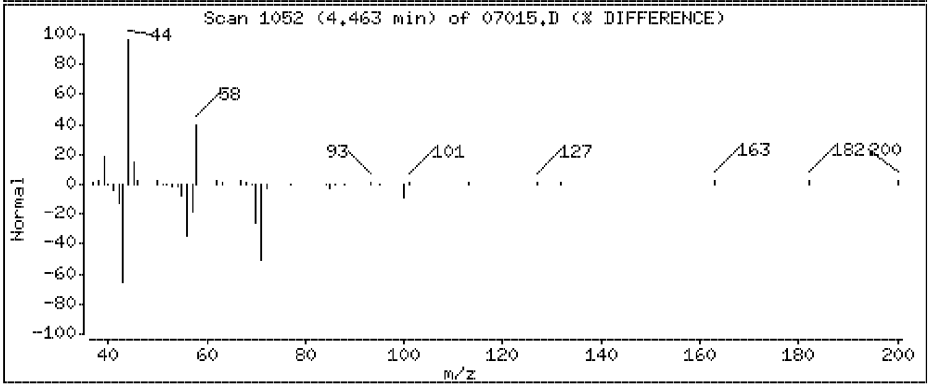












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

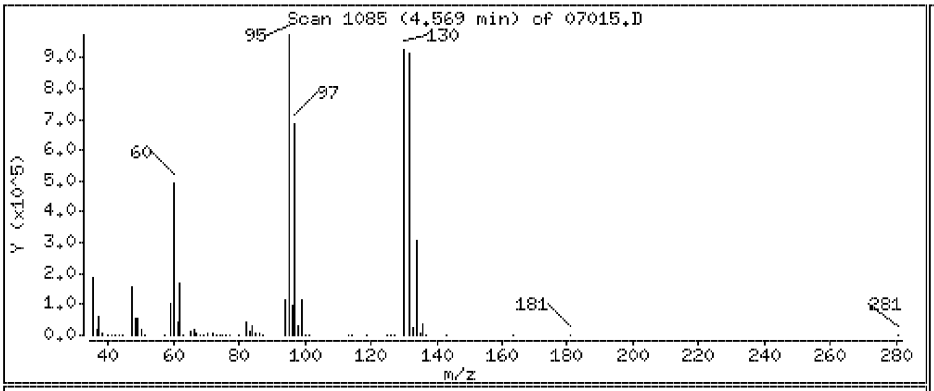
Operator: DR1

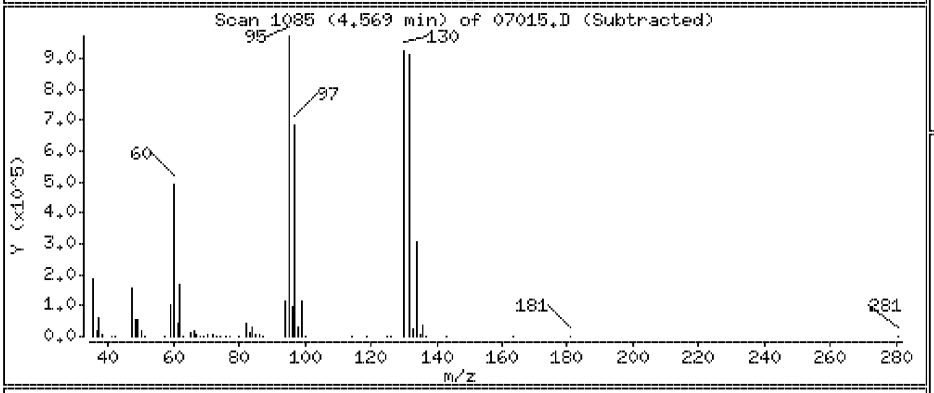
Column phase: J&W DB-5

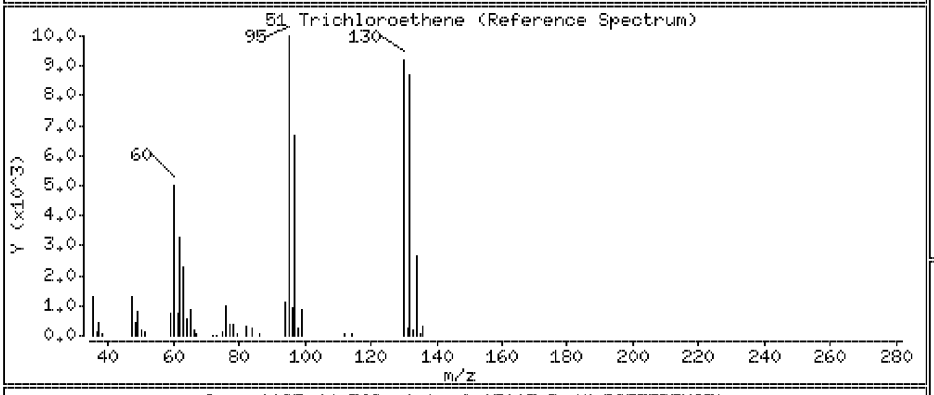
Column diameter: 0.32

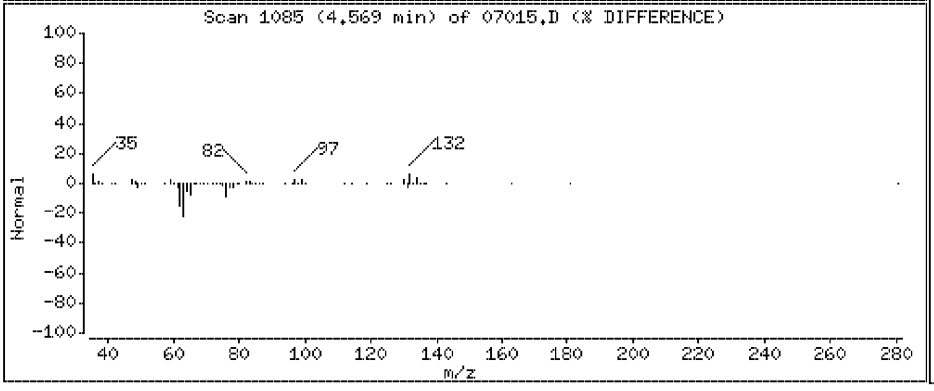
51 Trichloroethene

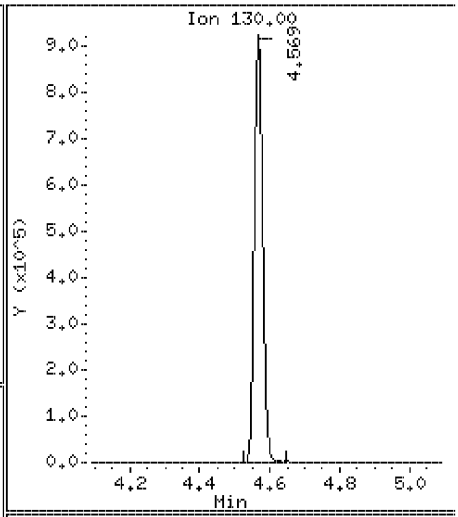
Concentration: 67.2 ppbv

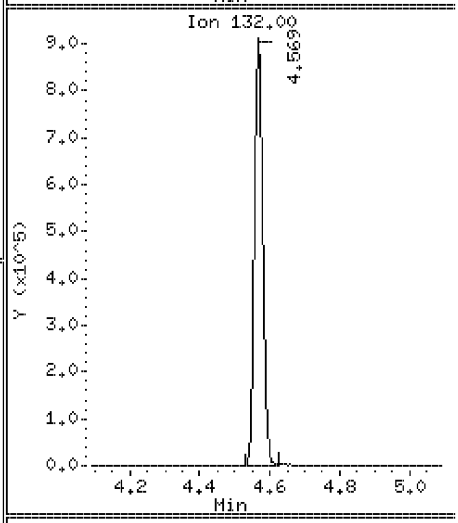


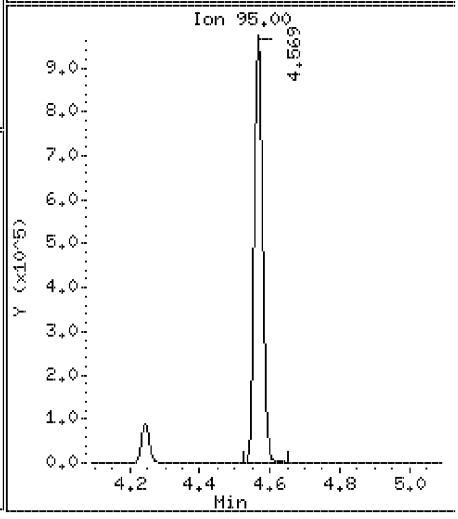












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

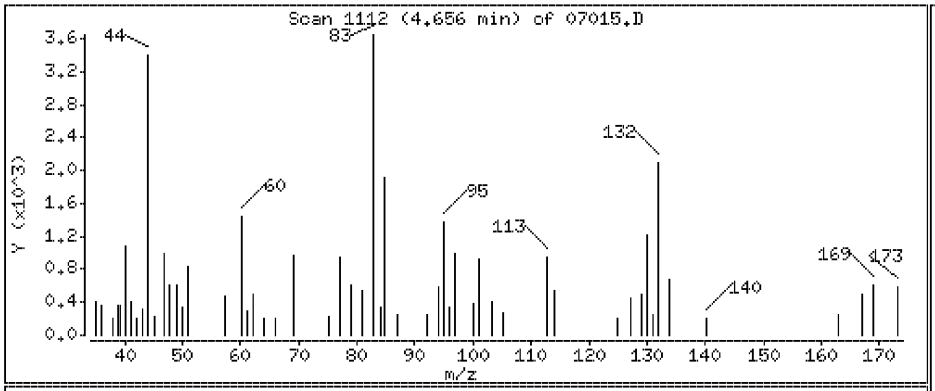
Operator: DR1

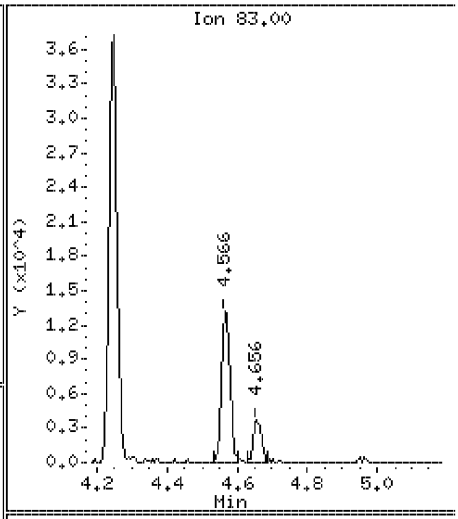
Column phase: J&W DB-5

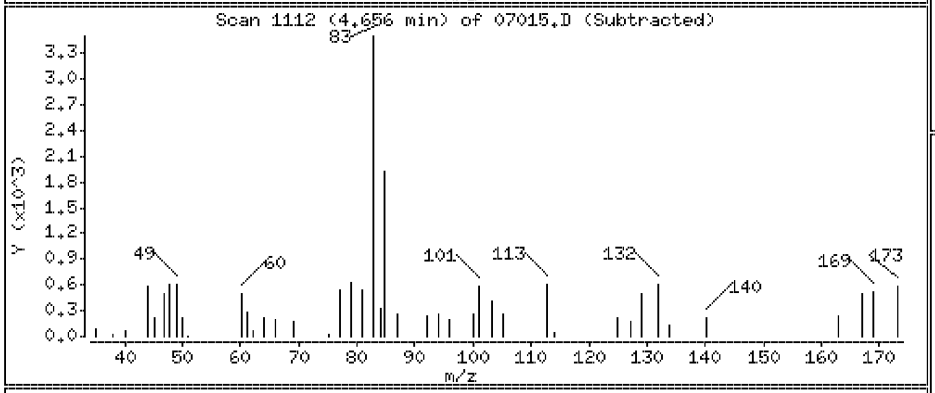
Column diameter: 0.32

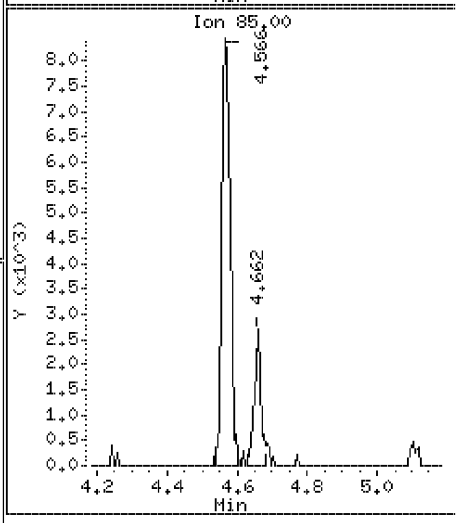
53 Bromodichloromethane

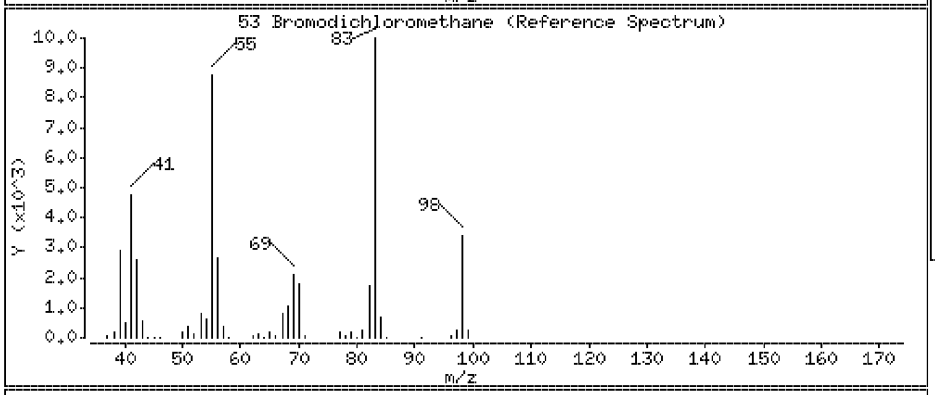
Concentration: 0.152 ppbv

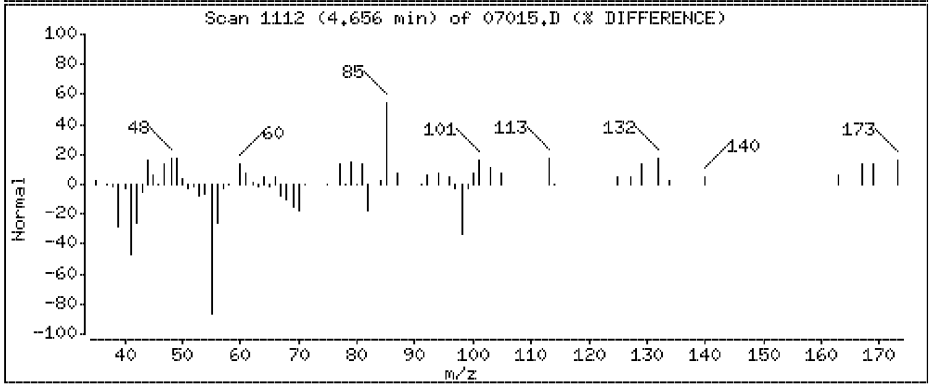












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

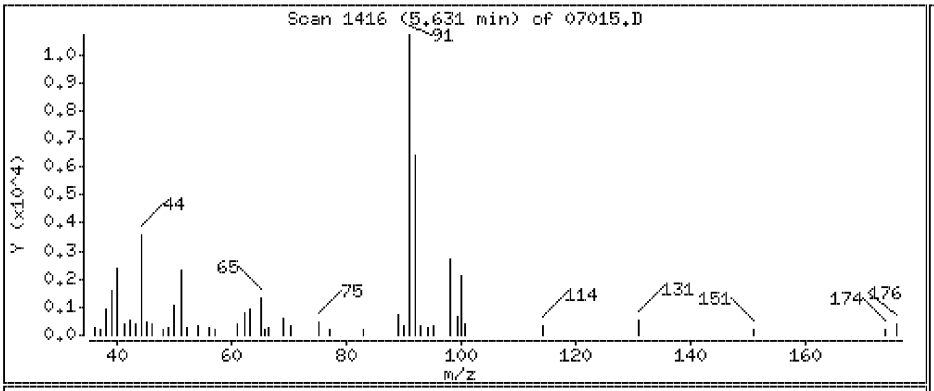
Operator: DR1

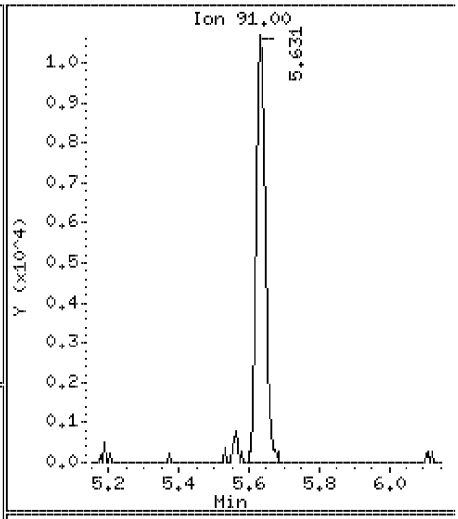
Column phase: J&W DB-5

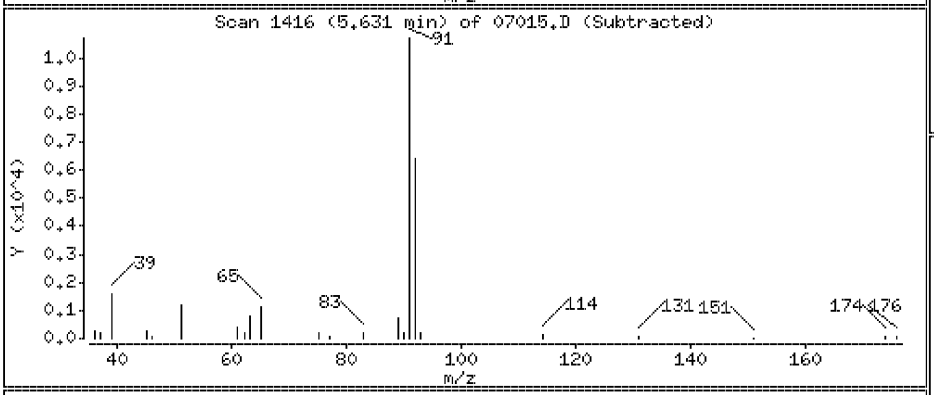
Column diameter: 0.32

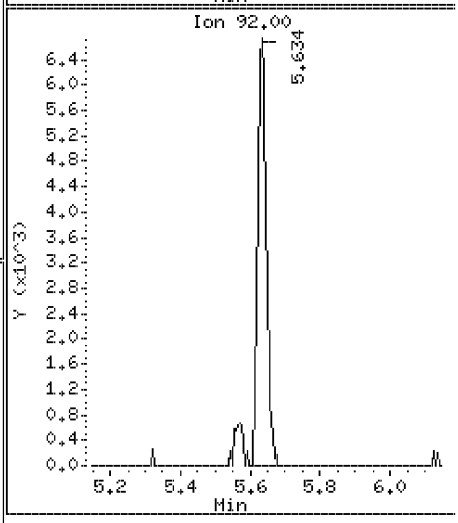
60 Toluene

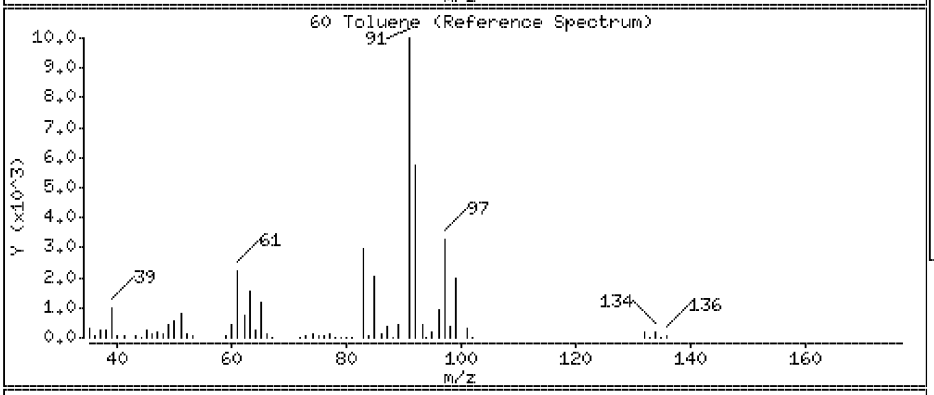
Concentration: 0.346 ppbv

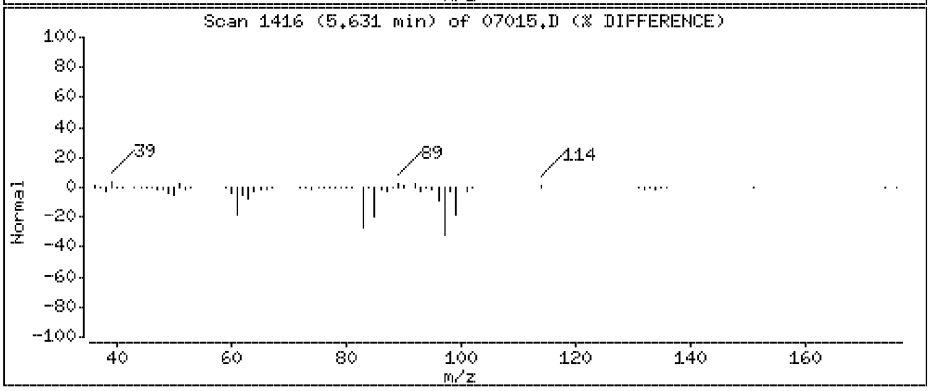












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

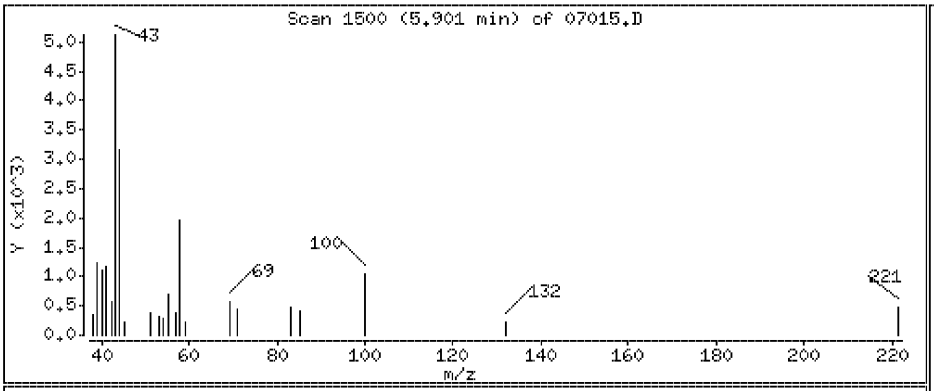
Operator: DR1

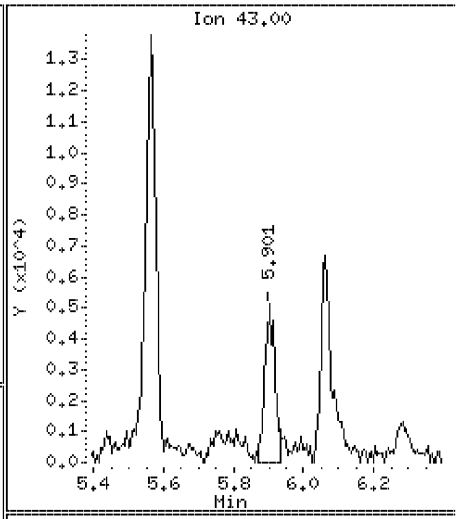
Column phase: J&W DB-5

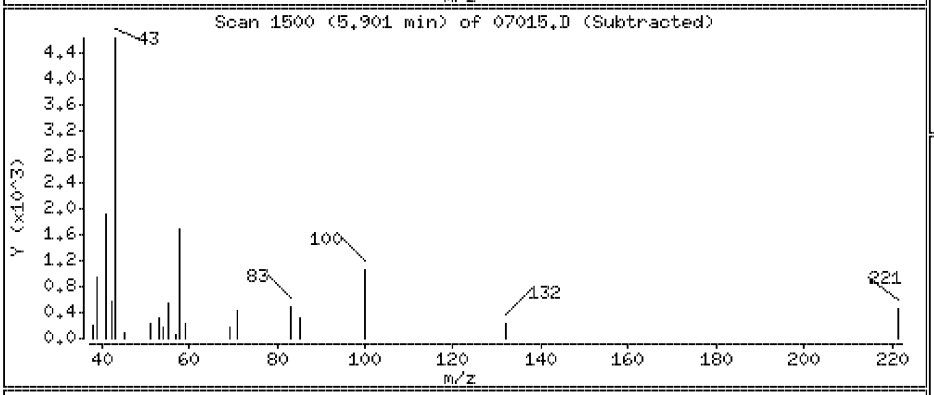
Column diameter: 0.32

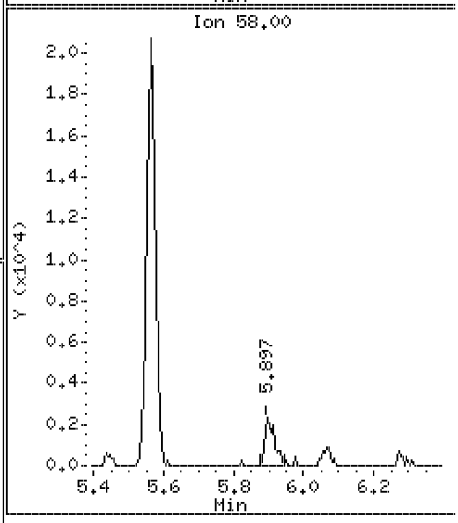
62 Methyl Butyl Ketone

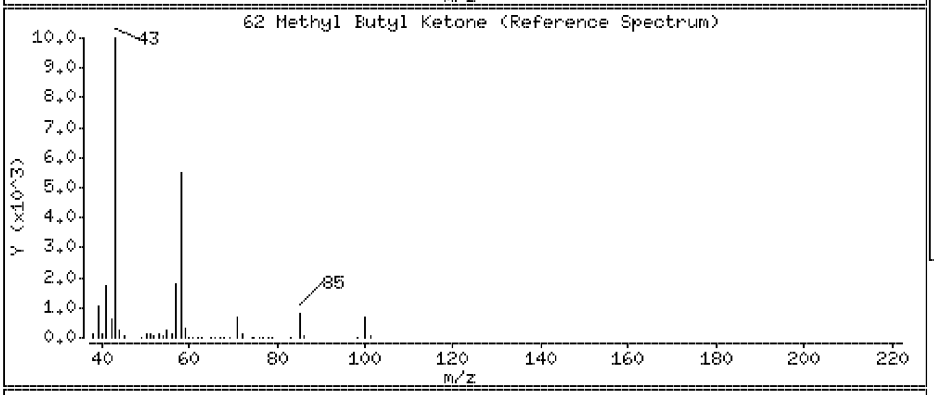
Concentration: 0.300 ppbv

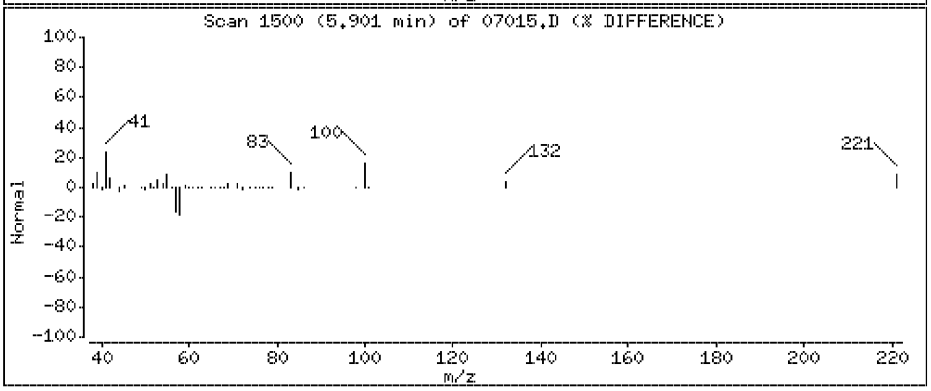












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

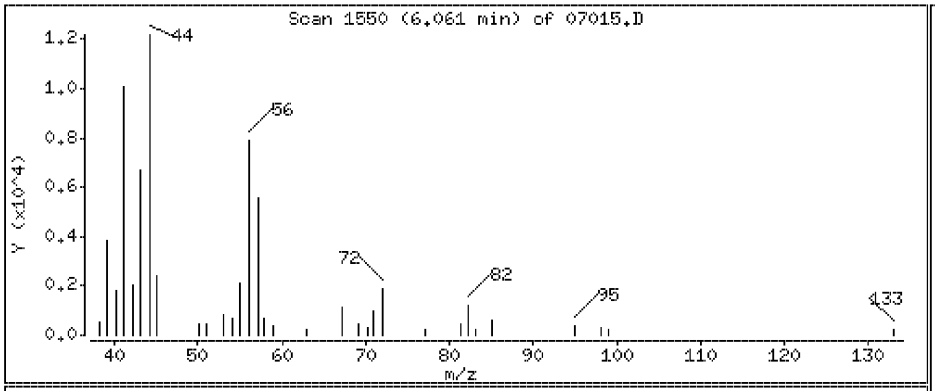
Operator: DR1

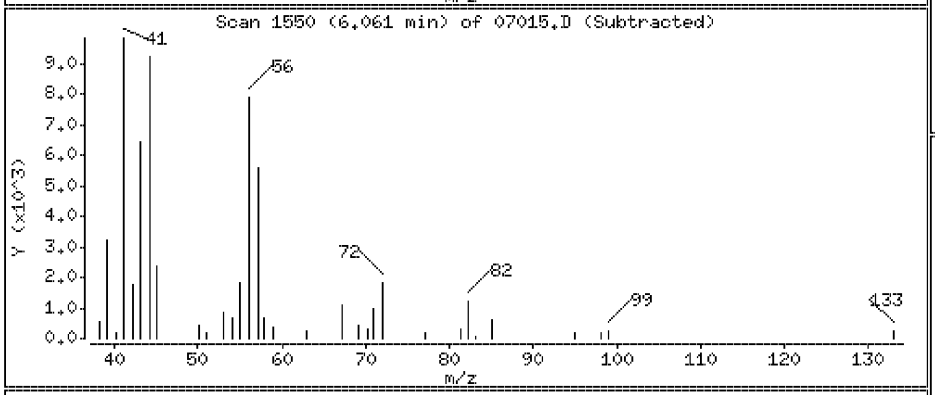
Column phase: J&W DB-5

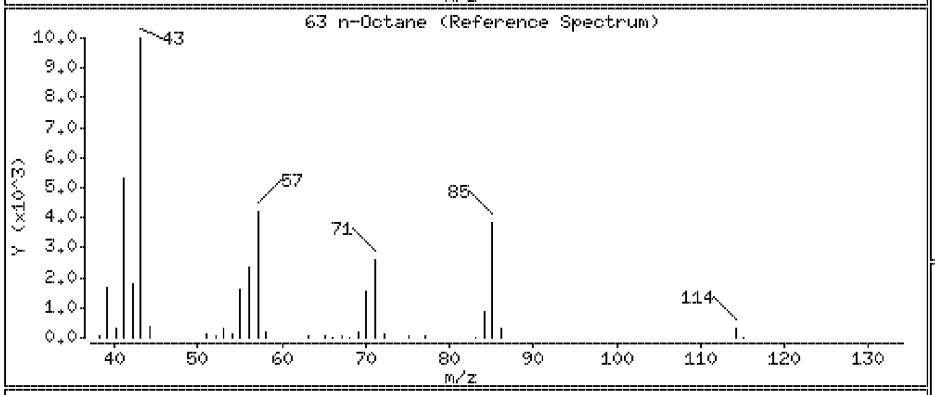
Column diameter: 0.32

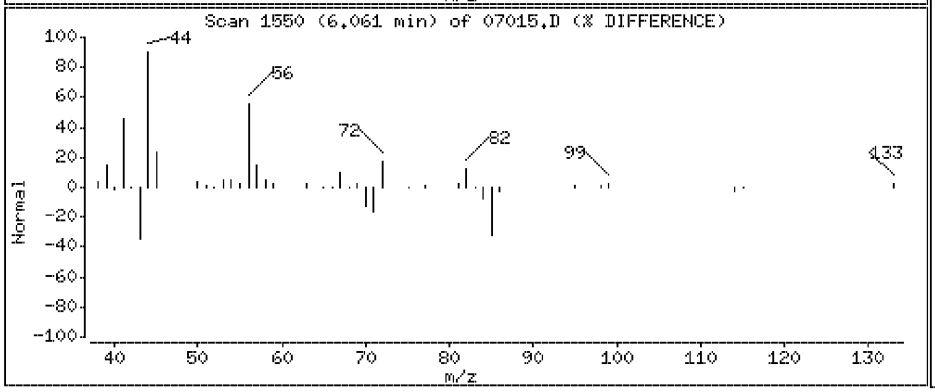
63 n-Octane

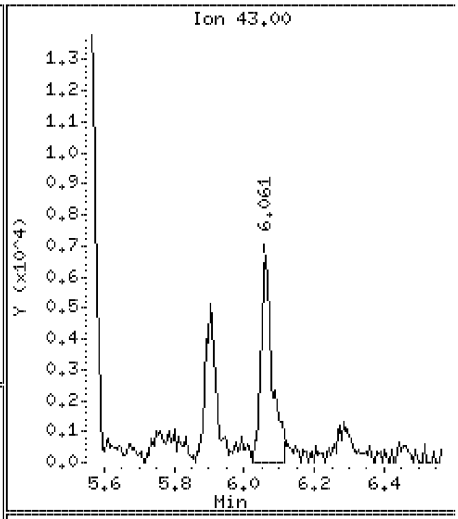
Concentration: 0.419 ppbv

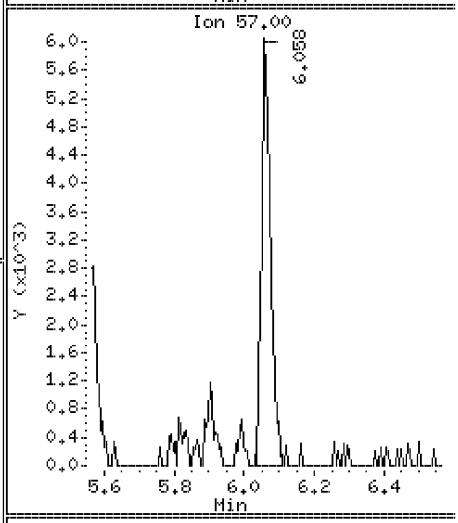


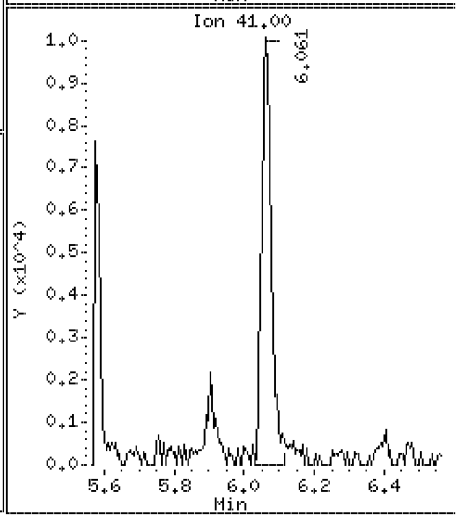












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

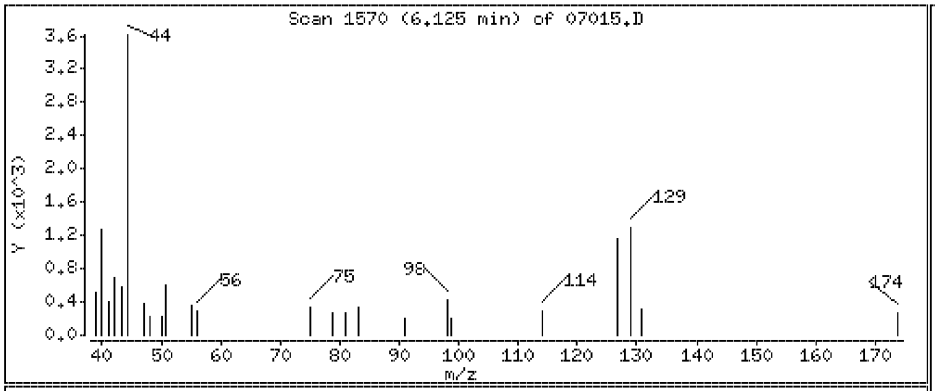
Operator: DR1

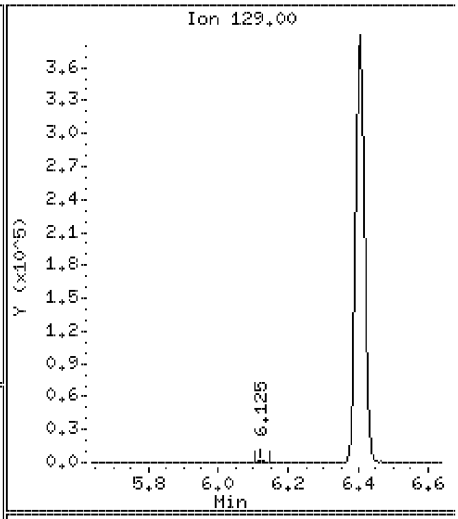
Column phase: J&W DB-5

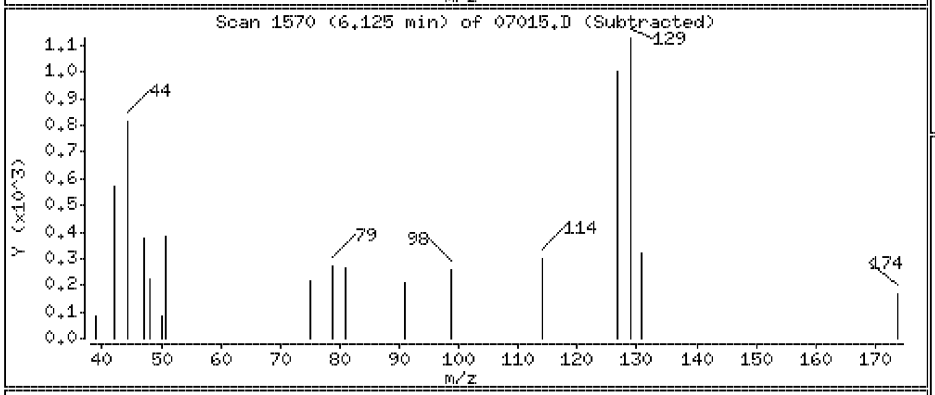
Column diameter: 0.32

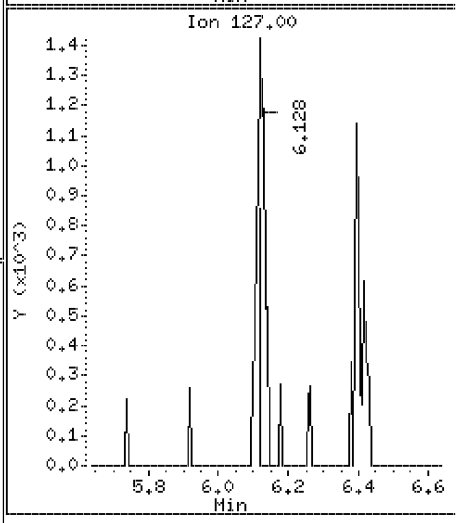
64 Dibromochloromethane

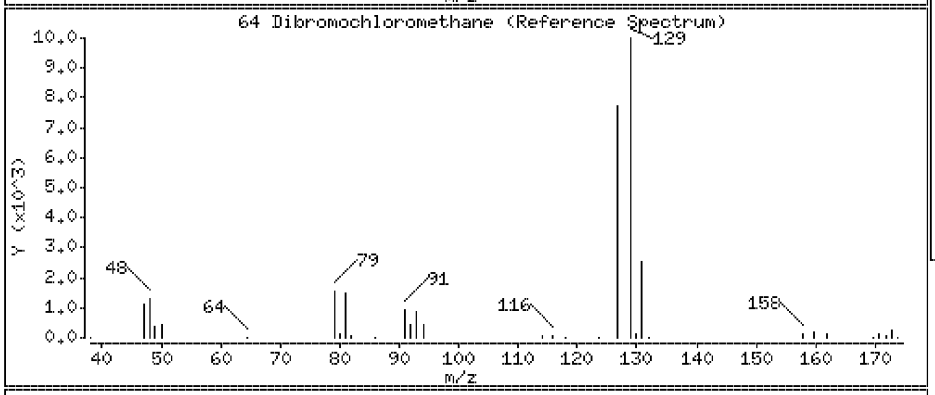
Concentration: 0.0587 ppbv

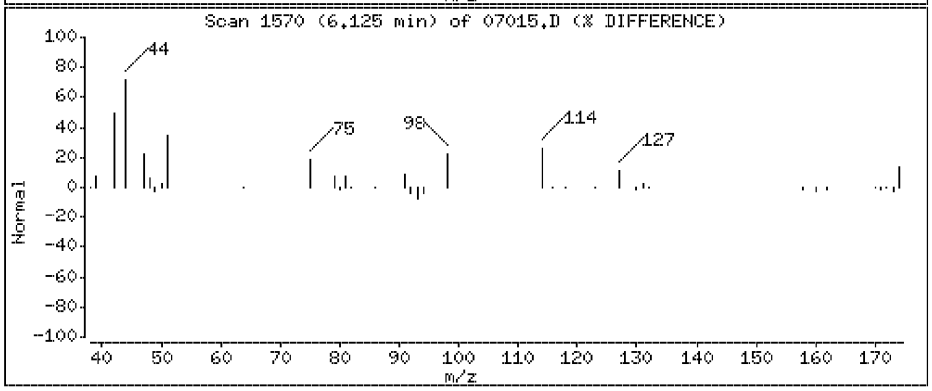












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

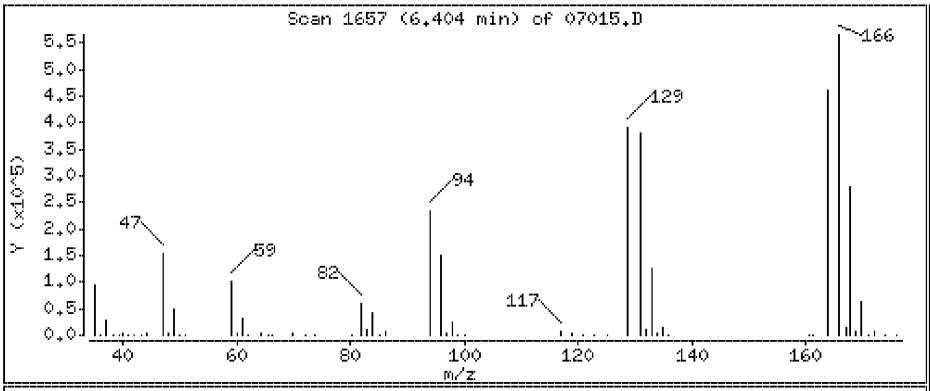
Operator: DR1

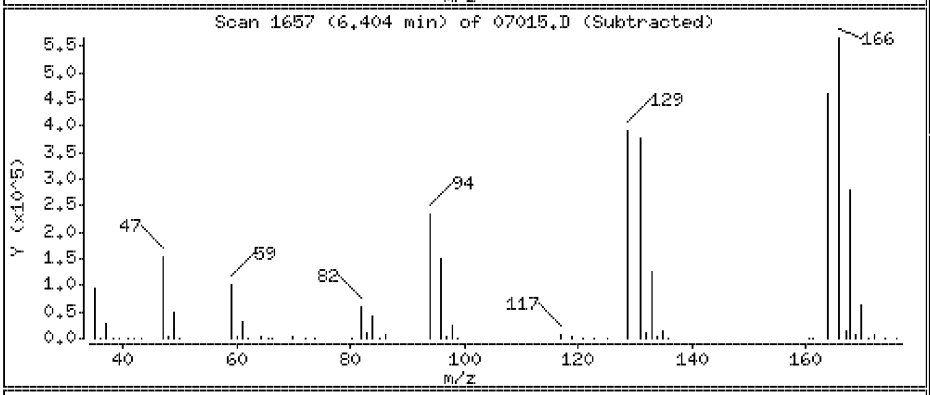
Column phase: J&W DB-5

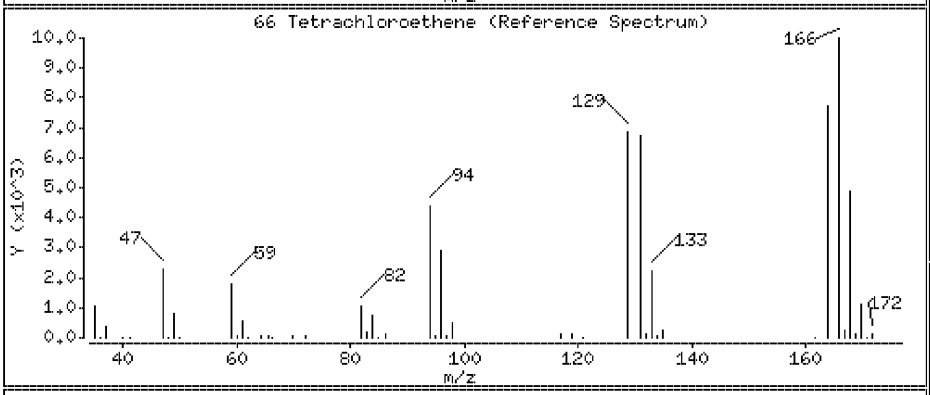
Column diameter: 0.32

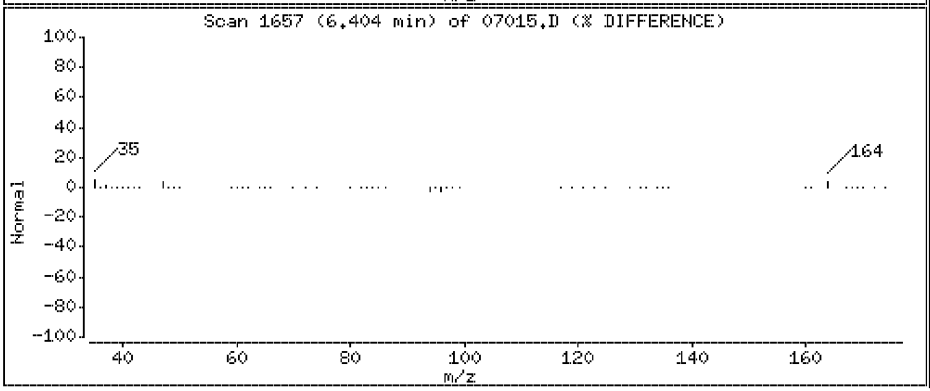
66 Tetrachloroethene

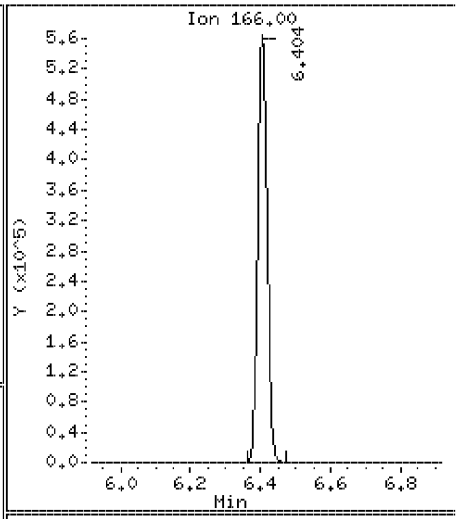
Concentration: 33.2 ppbv

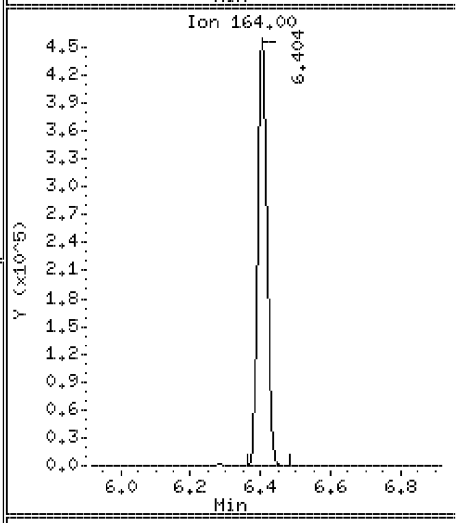


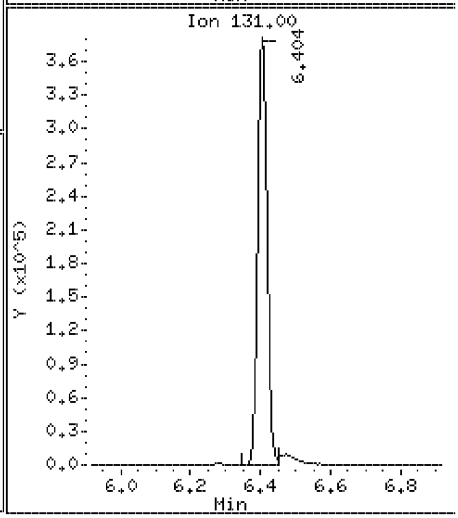












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

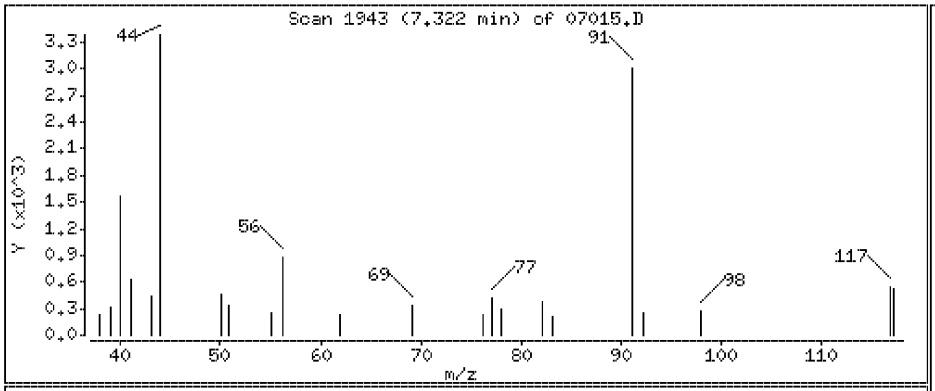
Operator: DR1

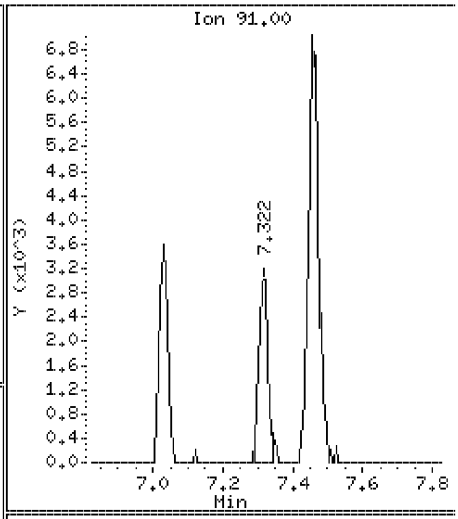
Column phase: J&W DB-5

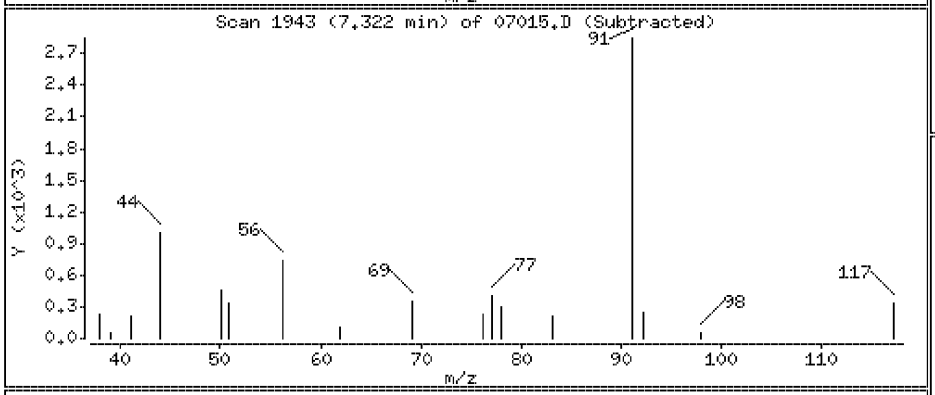
Column diameter: 0.32

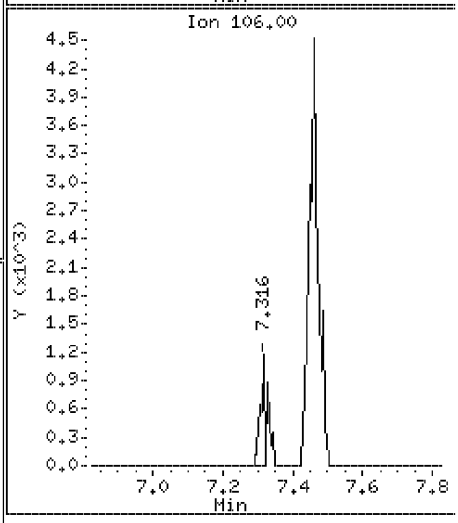
69 Ethyl Benzene

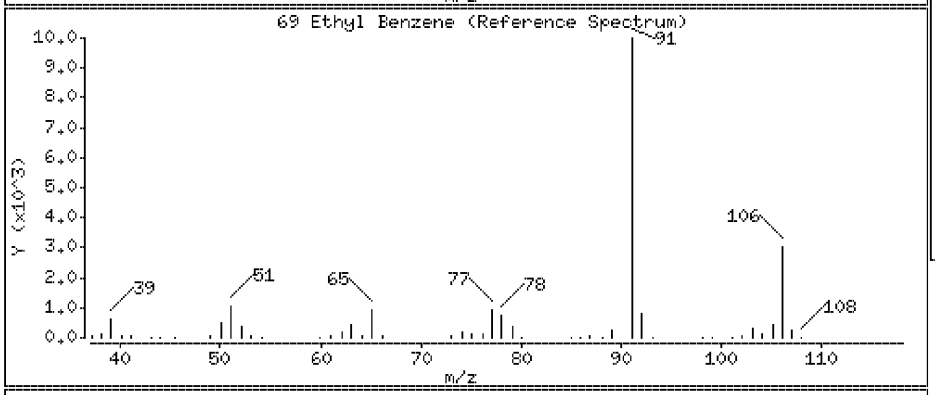
Concentration: 0.0857 ppbv

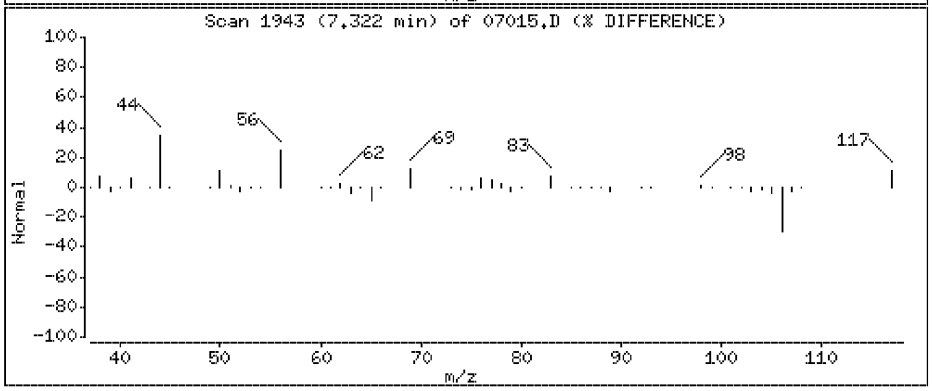












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

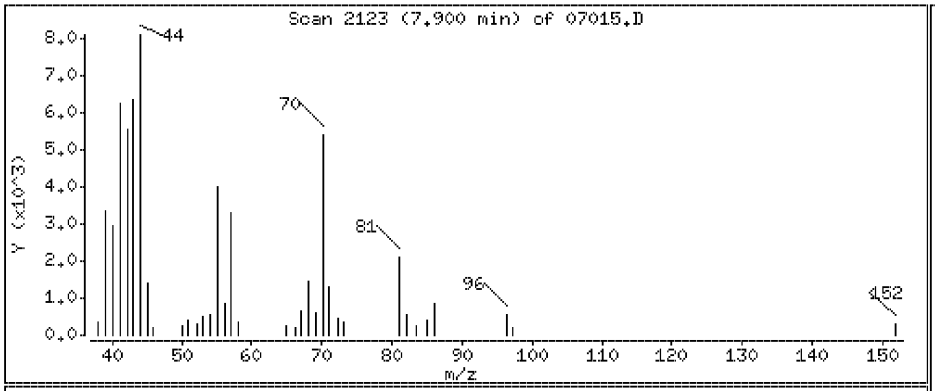
Operator: DR1

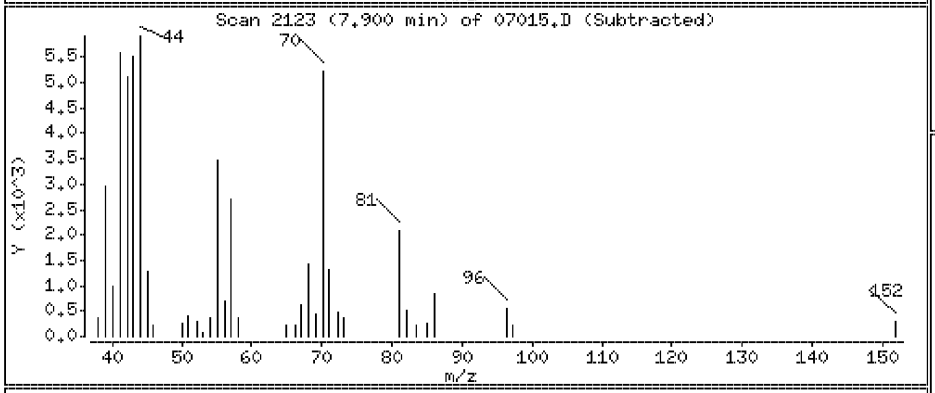
Column phase: J&W DB-5

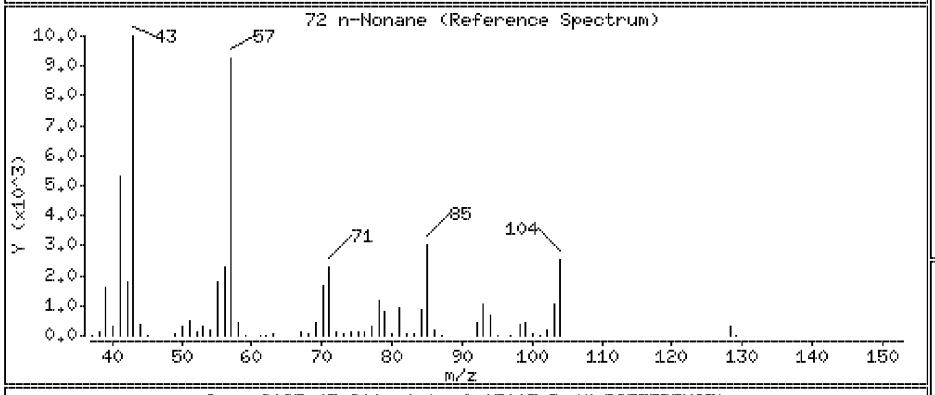
Column diameter: 0.32

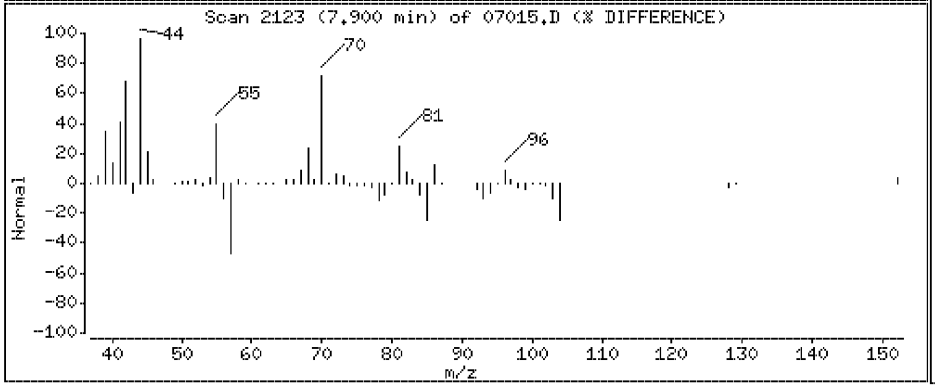
72 n-Nonane

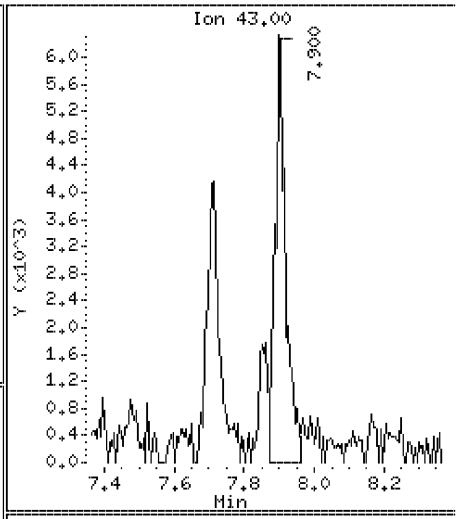
Concentration: 0.419 ppbv

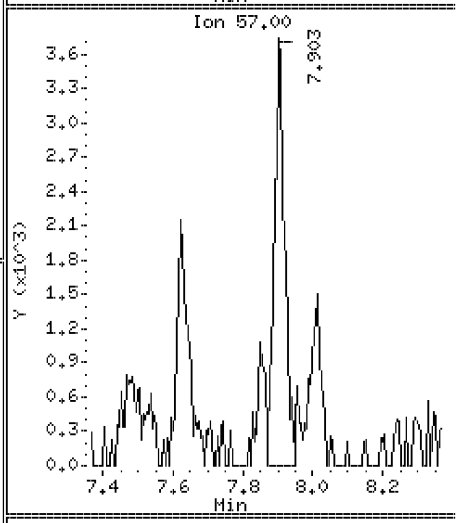


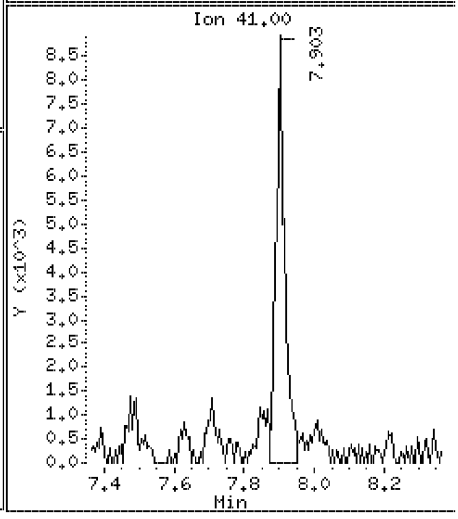












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

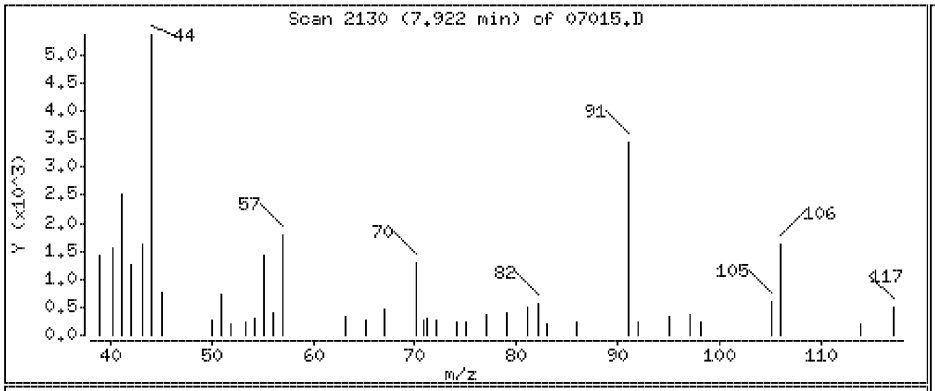
Operator: DR1

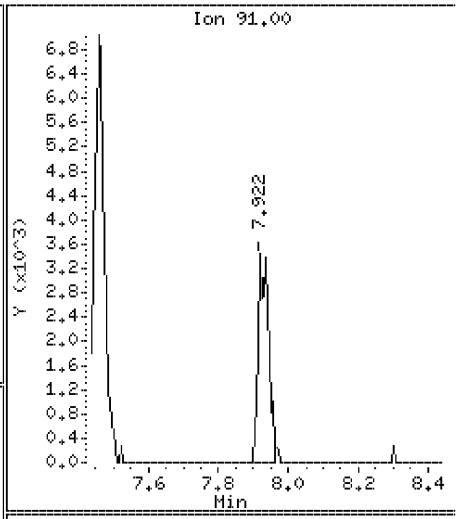
Column phase: J&W DB-5

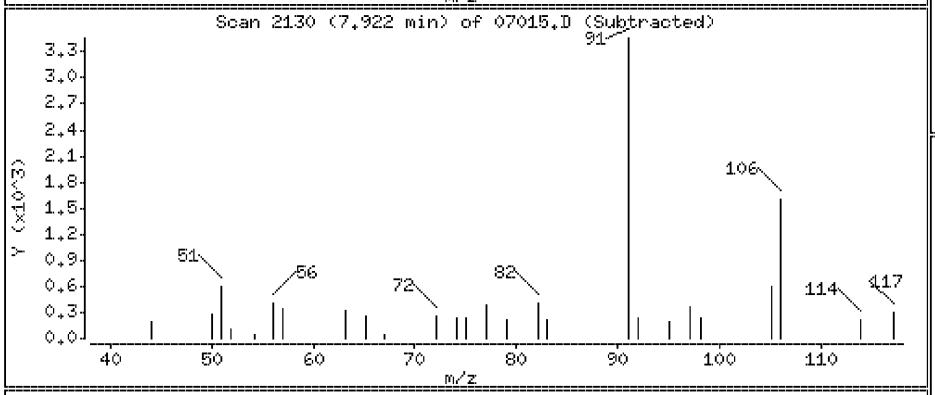
Column diameter: 0.32

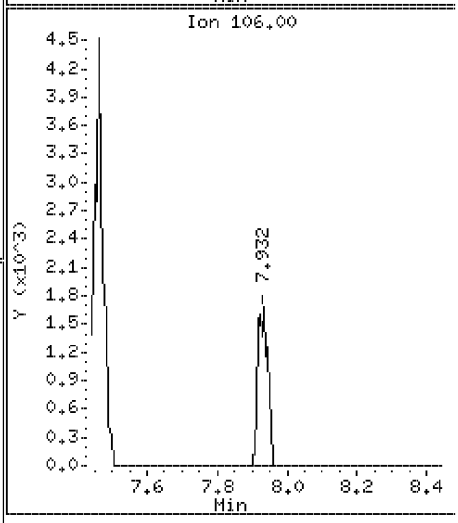
74 o-Xylene

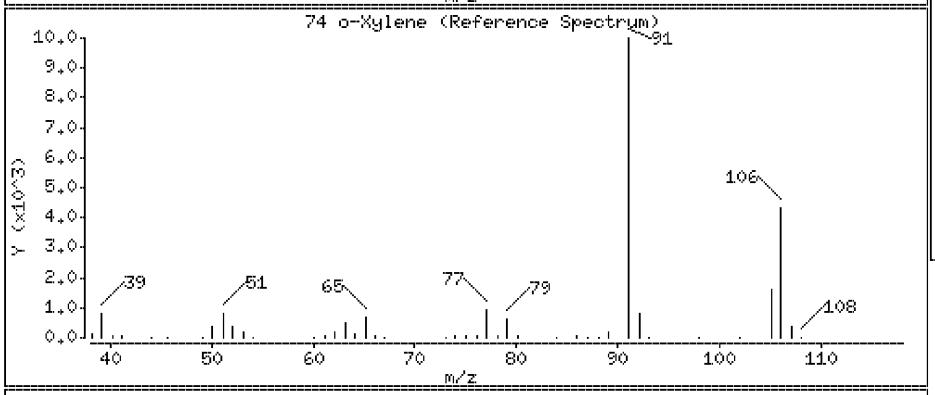
Concentration: 0.137 ppbv

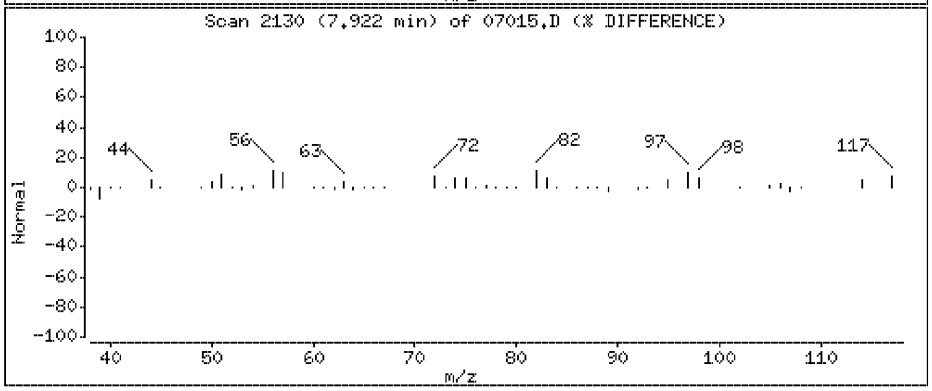












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07015.D

Date : 11-MAR-2017 18:19

Client ID:

Instrument: 10airD.i

Sample Info:

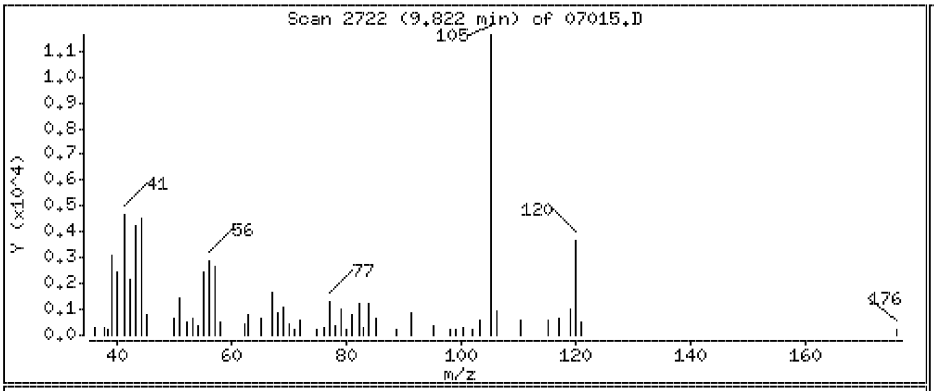
Operator: DR1

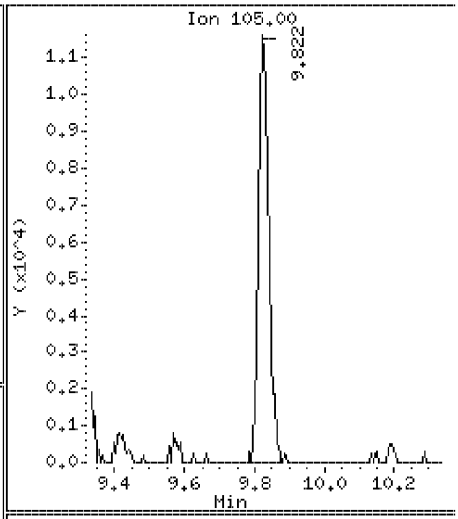
Column phase: J&W DB-5

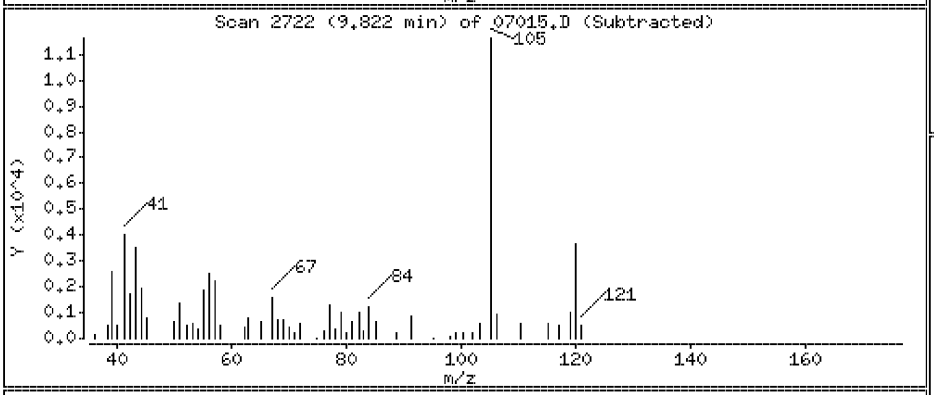
Column diameter: 0.32

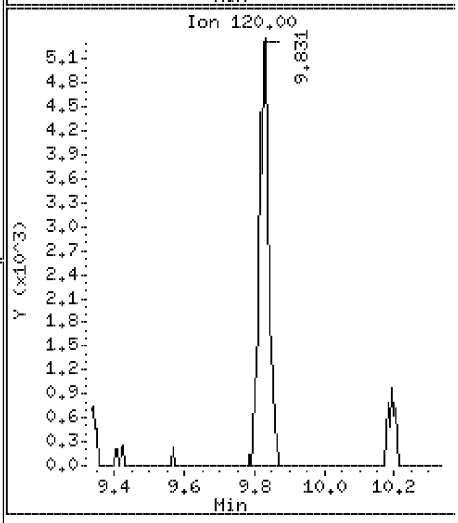
82 1,2,4-Trimethylbenzene

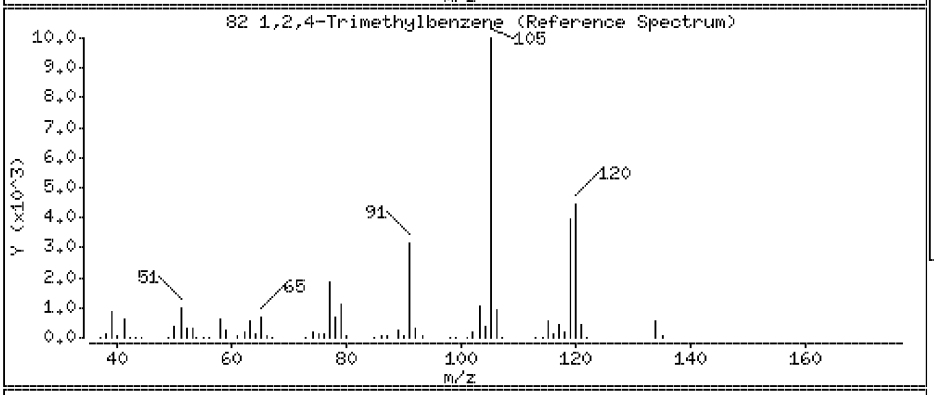
Concentration: 0.277 ppbv

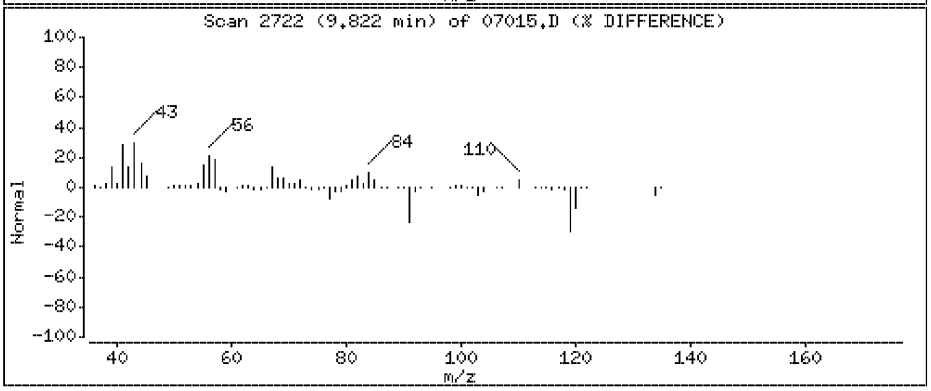






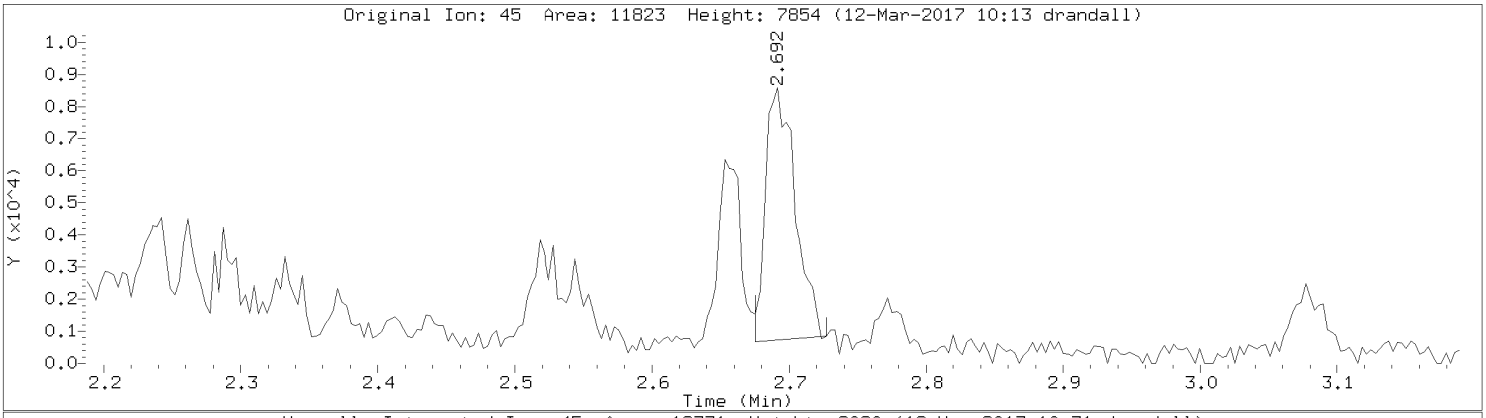


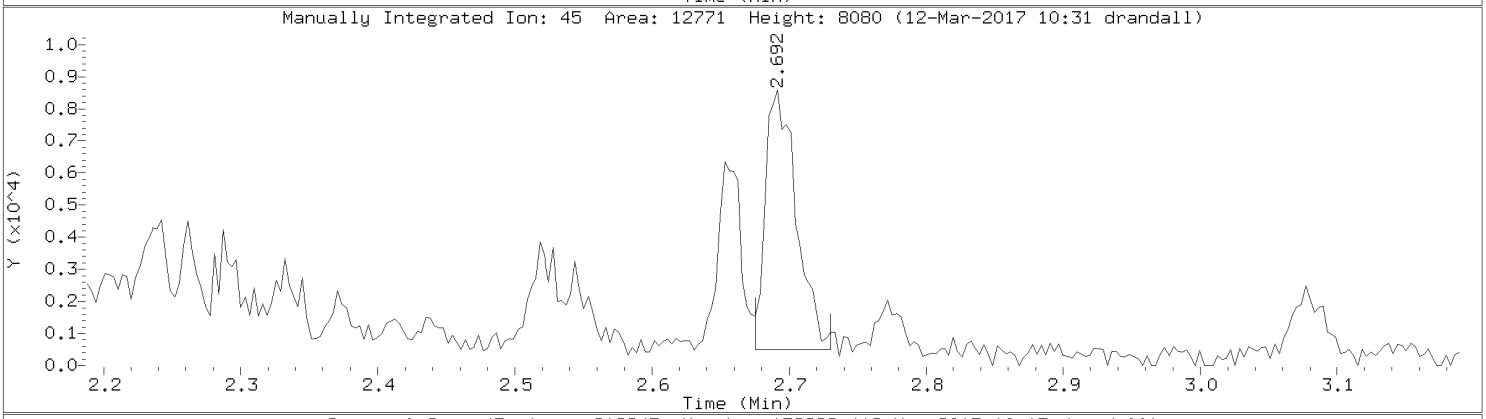


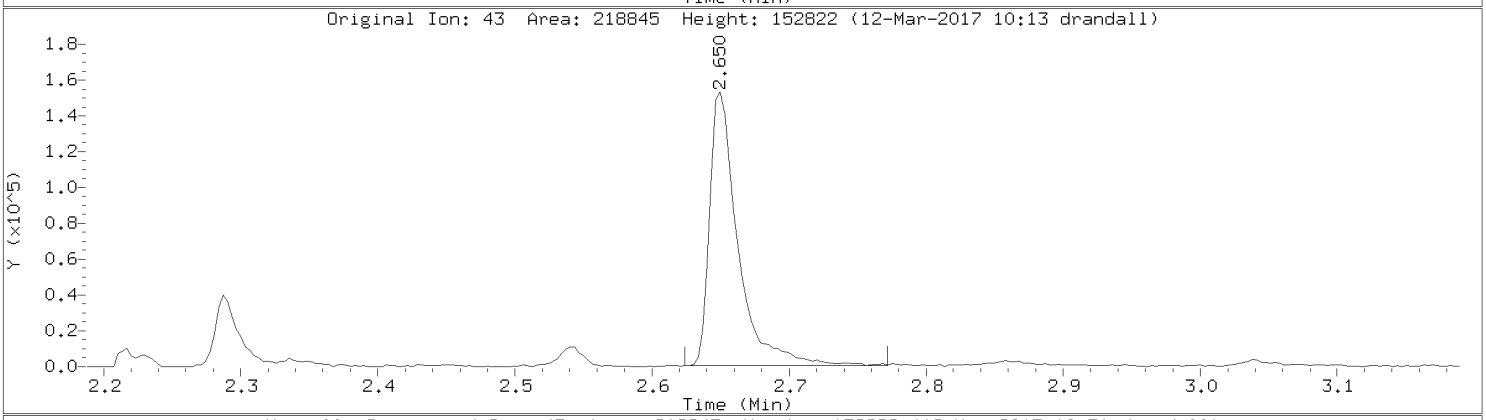


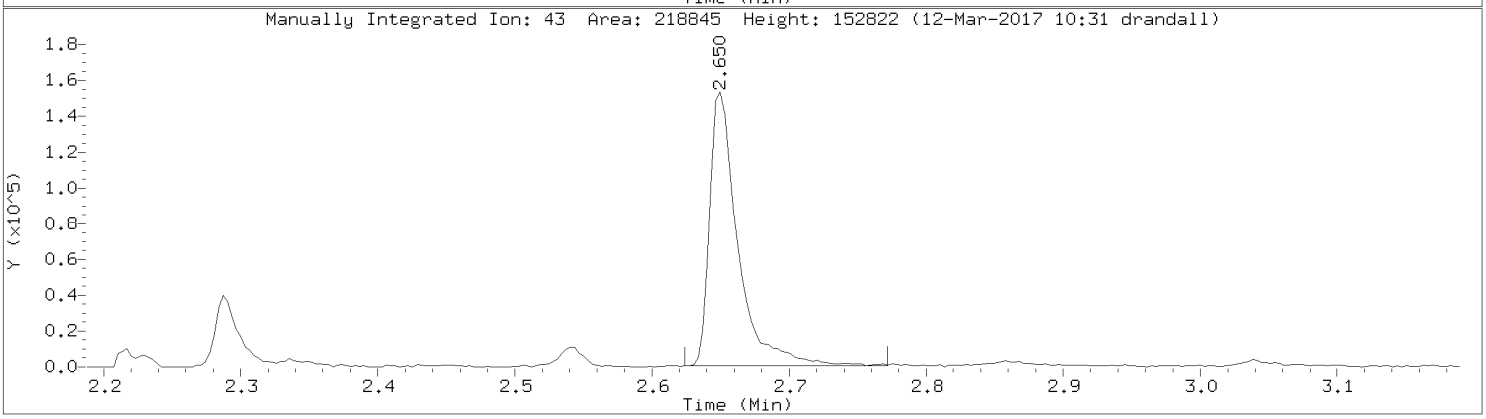
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07015.d
Injection Date: 11-MAR-2017 18:19
Instrument: 10airD.i
Lab Sample ID: 10380372012

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



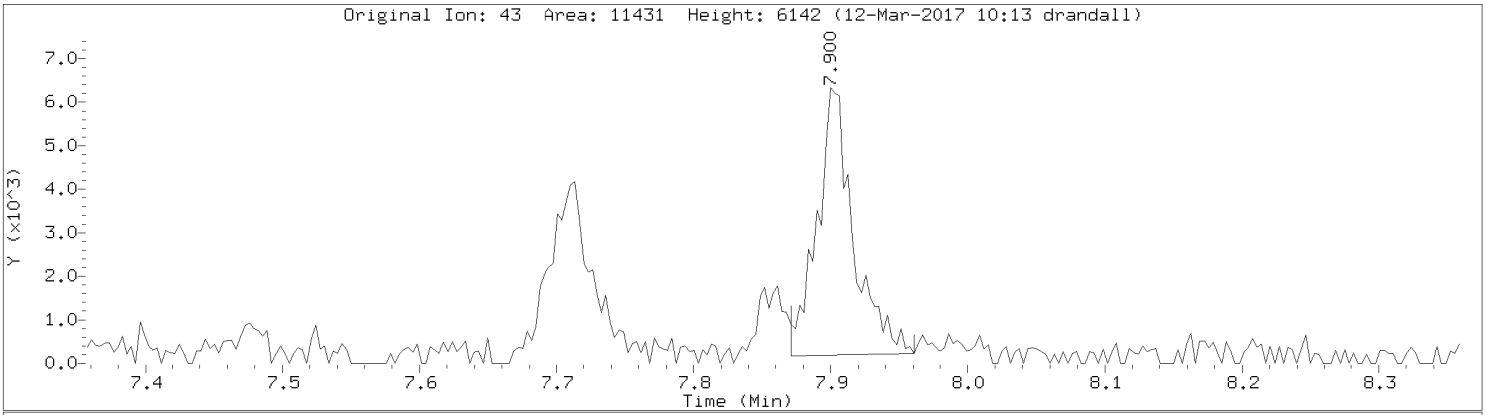


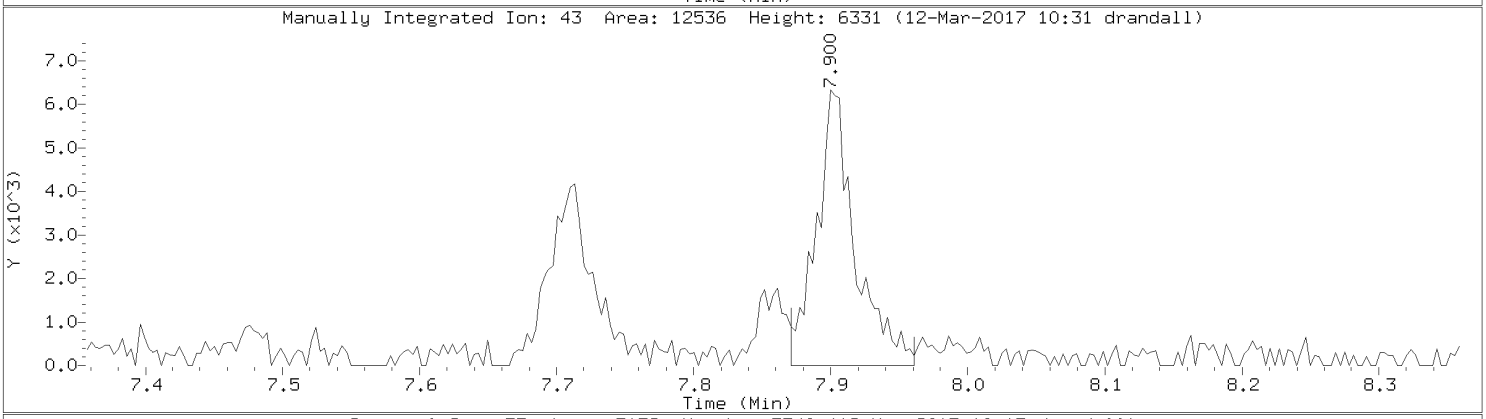


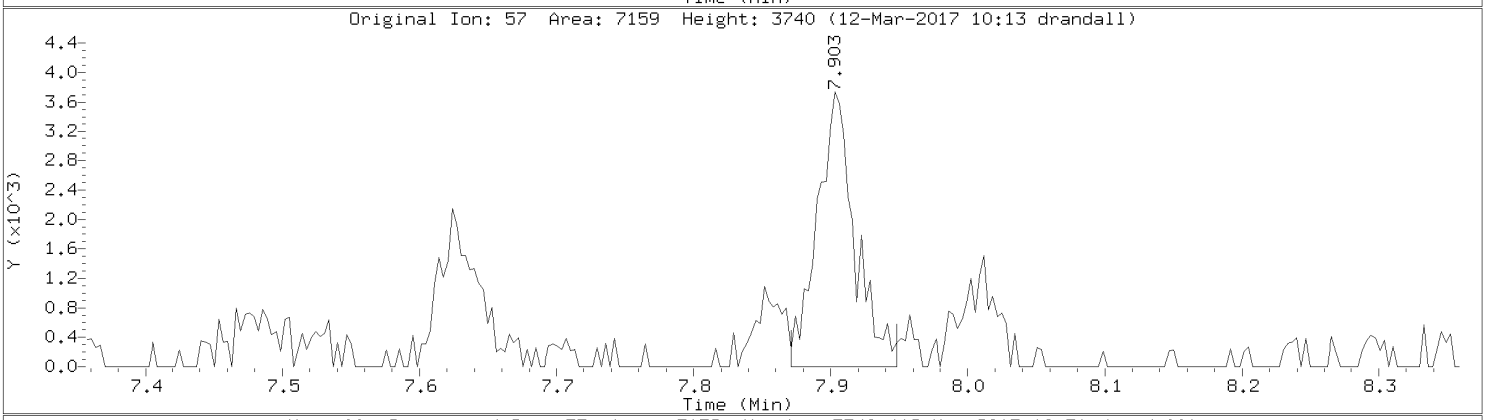


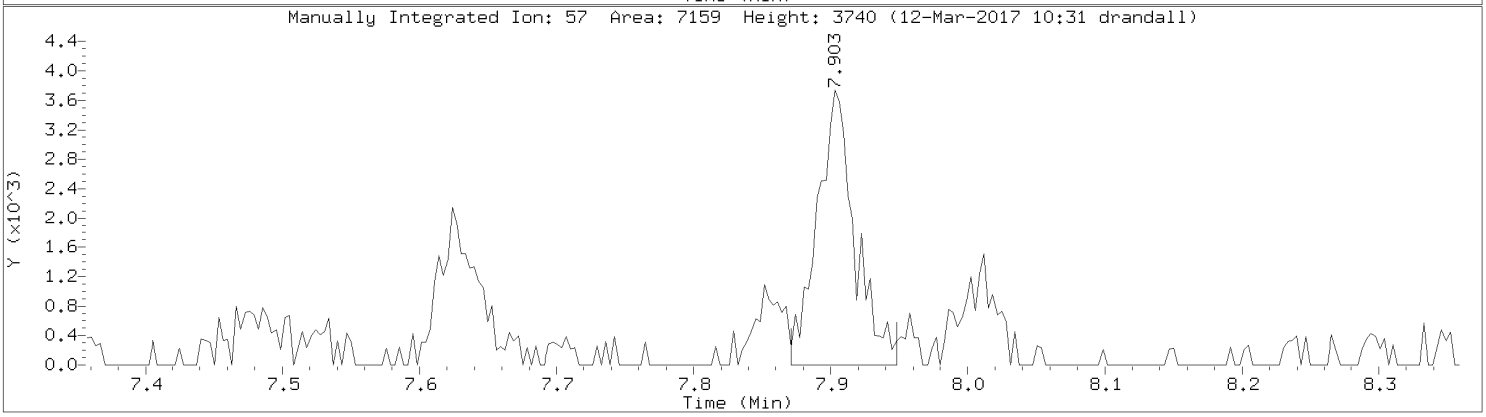
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07015.d
Injection Date: 11-MAR-2017 18:19
Instrument: 10airD.i
Lab Sample ID: 10380372012

Compound: n-Nonane
CAS Number: 111-84-2

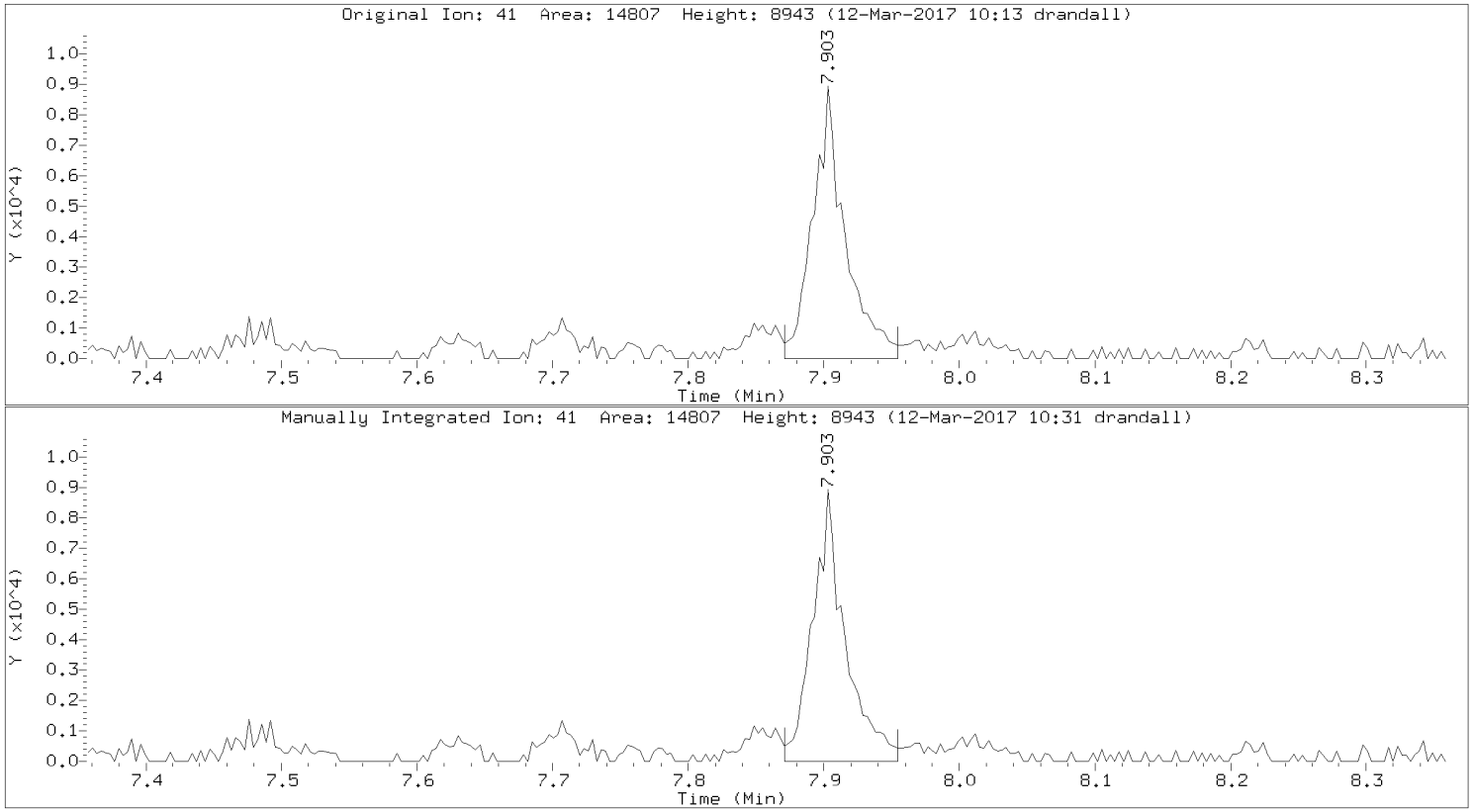








Data File: \\192.168.10.12\chem\10airD.i\031117.b/07015.d
Injection Date: 11-MAR-2017 18:19
Instrument: 10airD.i
Lab Sample ID: 10380372012



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07109.d
Report Date: 13-Mar-2017 16:09

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031217.b\07109.d
Lab Smp Id: 10380372012
Inj Date : 12-MAR-2017 14:34
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Meth Date : 13-Mar-2017 12:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 9
Dil Factor: 9.15000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	9.150	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
	8 Vinyl chloride	62	Compound Not Detected.						
	18 Acetone	43	Compound Not Detected.						
	20 1,1-Dichloroethene	61	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						
$	32 Hexane-d14(S)	66	3.262	3.272	(0.770)	1397658	8.80056	8.80	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	3.458	3.471	(0.816)	2011	0.09111	0.834	(Q)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	4.238	4.251	(1.000)	2991512	10.0000		
	51 Trichloroethene	130	4.562	4.575	(1.076)	254775	7.05051	64.5	
$	59 Toluene-d8 (S)	98	5.557	5.566	(1.311)	2862884	9.55073	9.55	
	60 Toluene	91	Compound Not Detected.						
	66 Tetrachloroethene	166	6.397	6.407	(0.910)	166914	3.46658	31.7	
*	67 Chlorobenzene - d5	117	7.026	7.033	(1.000)	2177985	10.0000		
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07109.d
Report Date: 13-Mar-2017 16:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.200	(1.451)	1096811	8.21936	8.22

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07109.d
Report Date: 13-Mar-2017 16:09

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07109.d
Lab Smp Id: 10380372012
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 12-MAR-2017
Calibration Time: 10:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

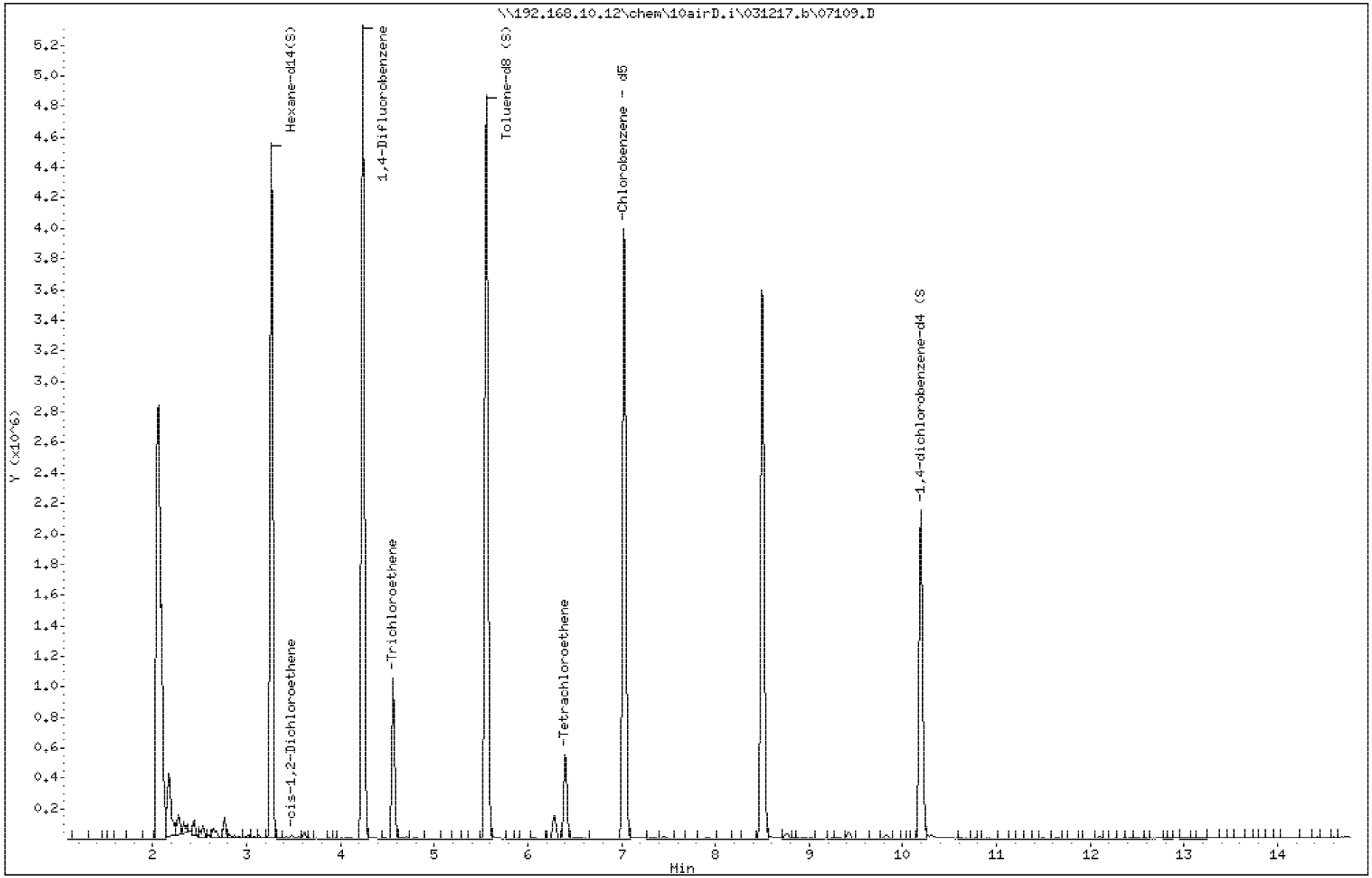
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	2991512	-21.02
67 Chlorobenzene - d	3280875	1968525	4593225	2177985	-33.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.30
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07109.D
Date : 12-MAR-2017 14:34
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07109.D

Date : 12-MAR-2017 14:34

Client ID:

Instrument: 10airD.i

Sample Info:

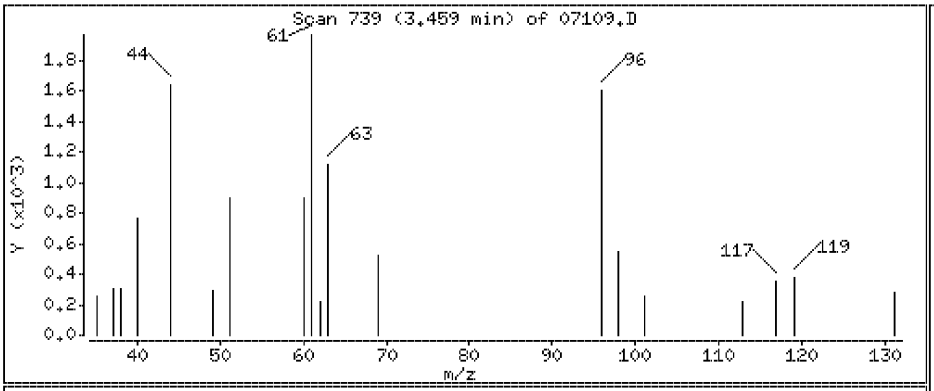
Operator: EMC

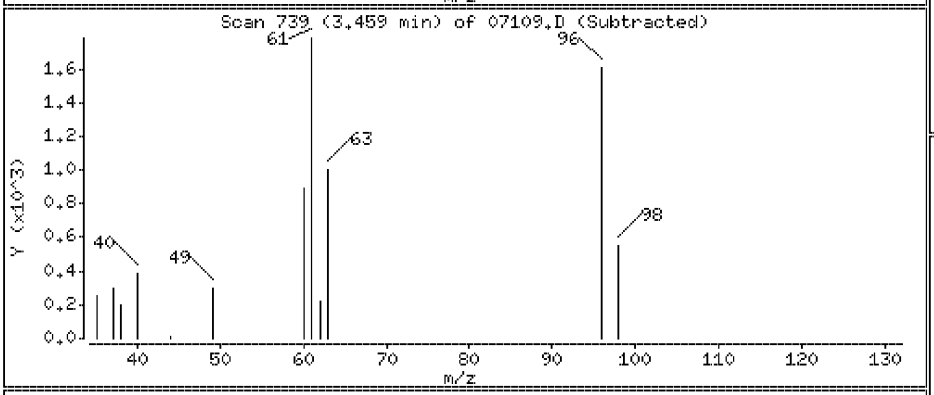
Column phase: J&W DB-5

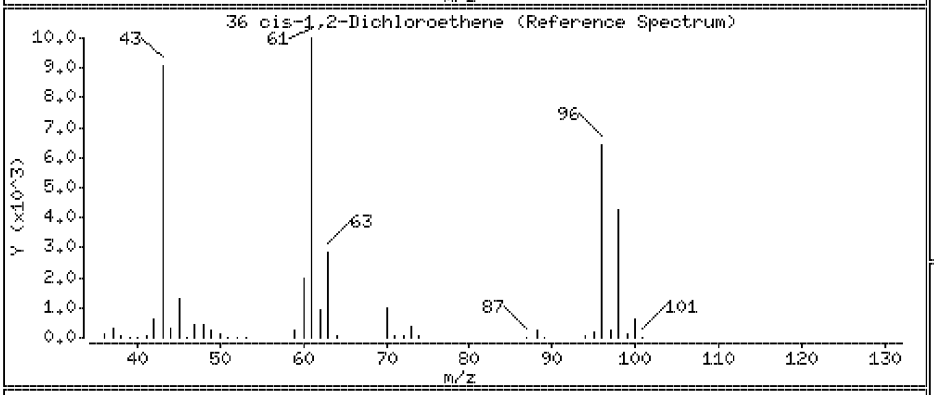
Column diameter: 0.32

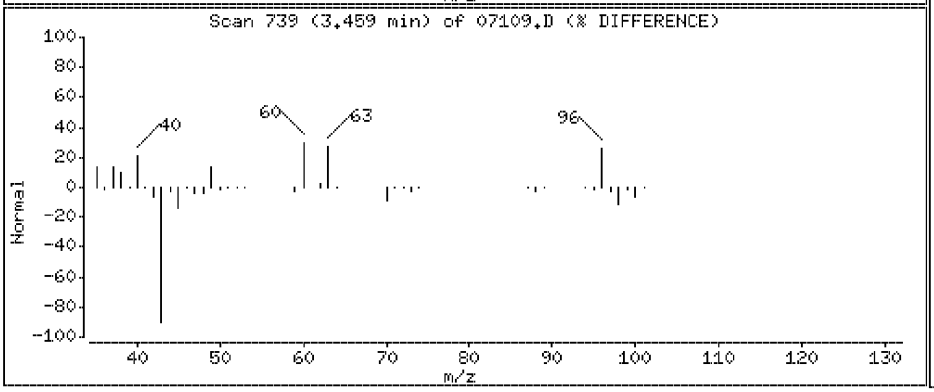
36 cis-1,2-Dichloroethene

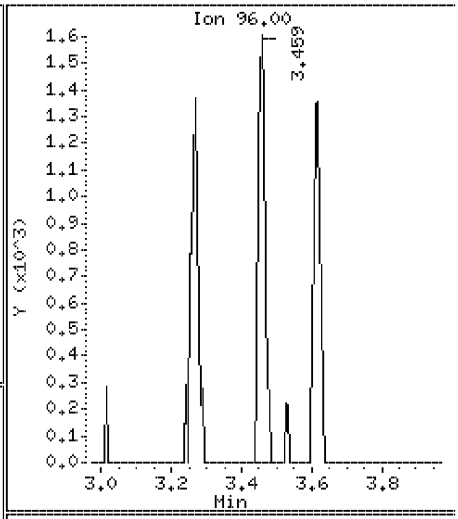
Concentration: 0.834 ppbv

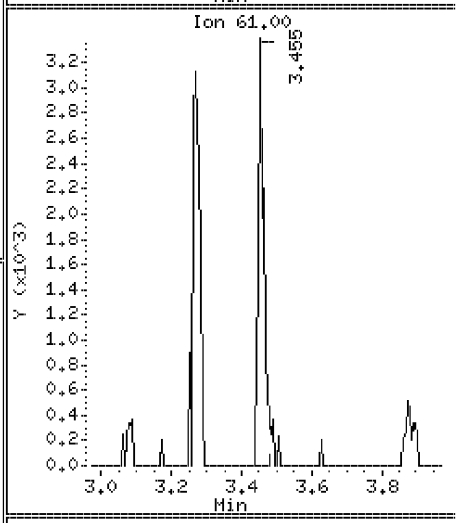


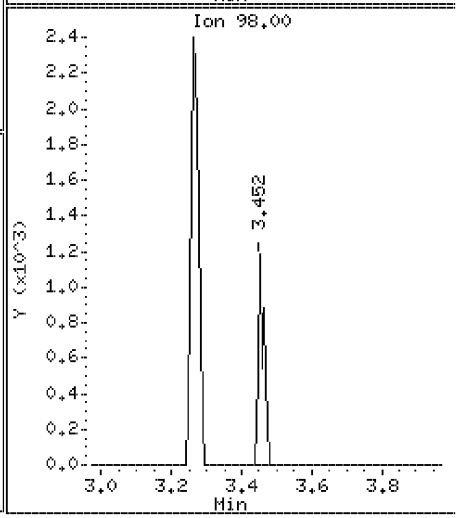












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07109.D

Date : 12-MAR-2017 14:34

Client ID:

Instrument: 10airD.i

Sample Info:

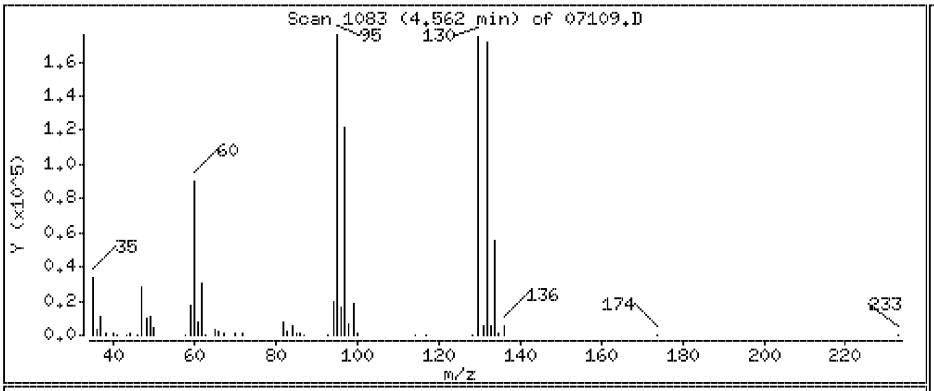
Operator: EMC

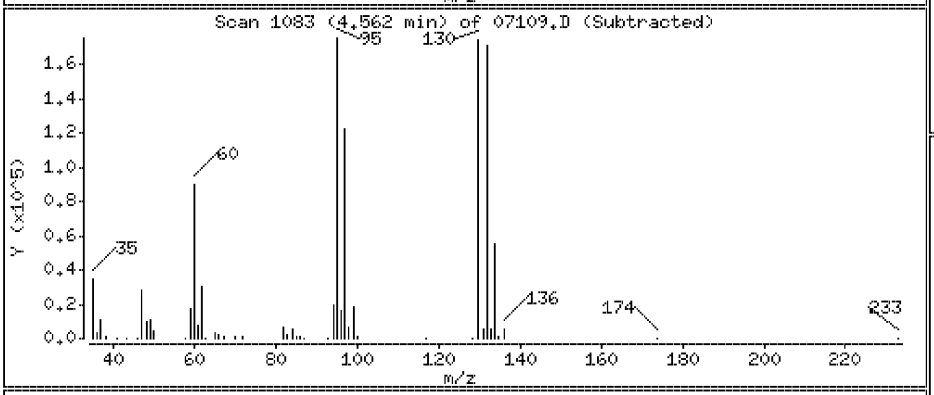
Column phase: J&W DB-5

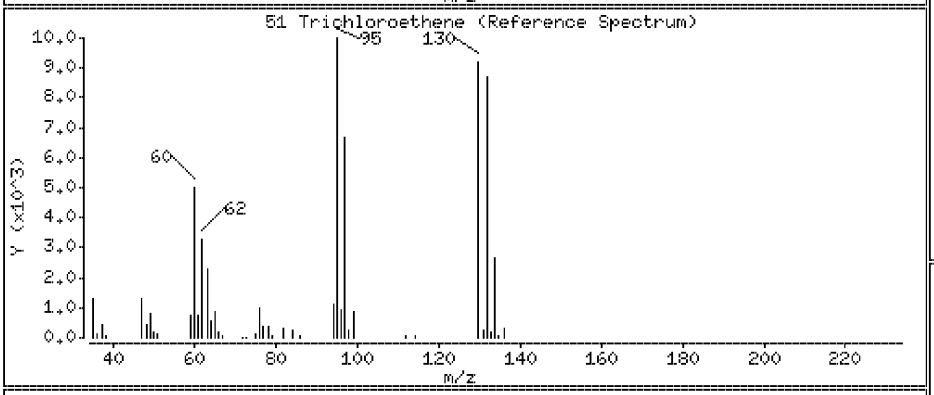
Column diameter: 0.32

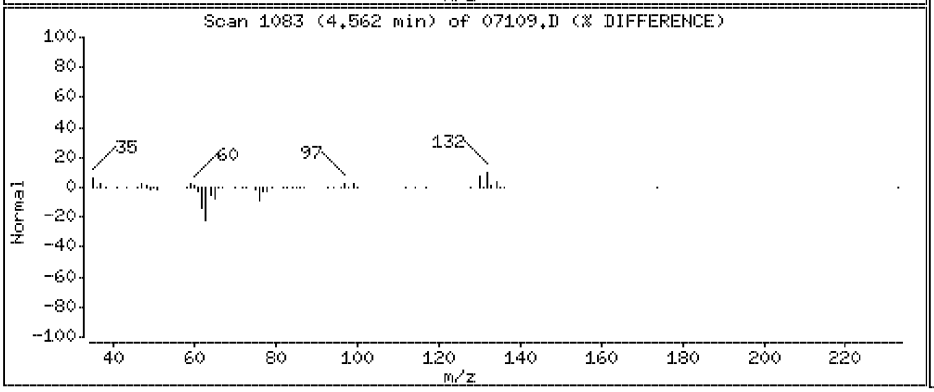
51 Trichloroethene

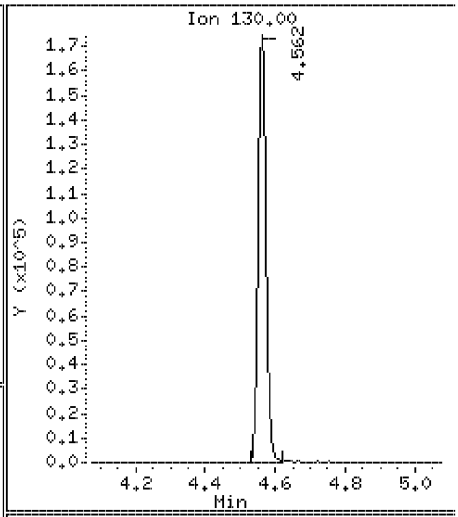
Concentration: 64.5 ppbv

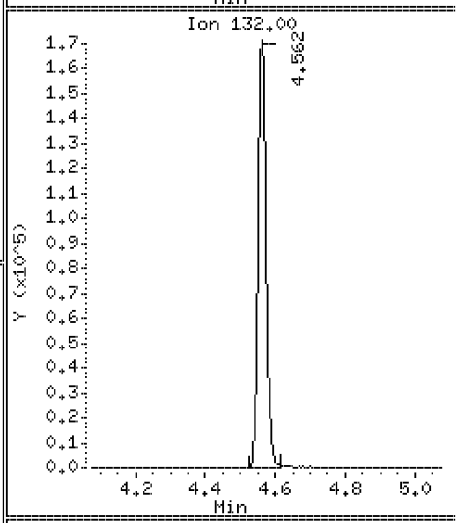


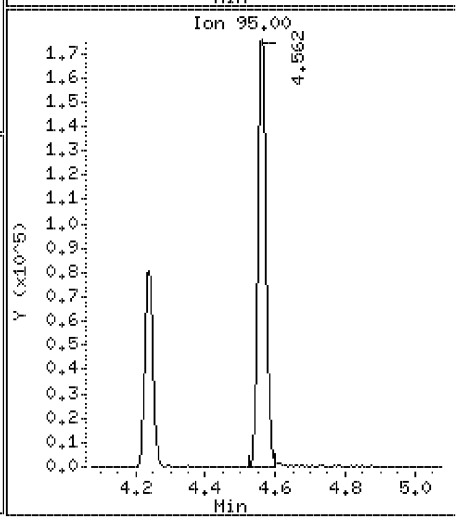












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07109.D

Date : 12-MAR-2017 14:34

Client ID:

Instrument: 10airD.i

Sample Info:

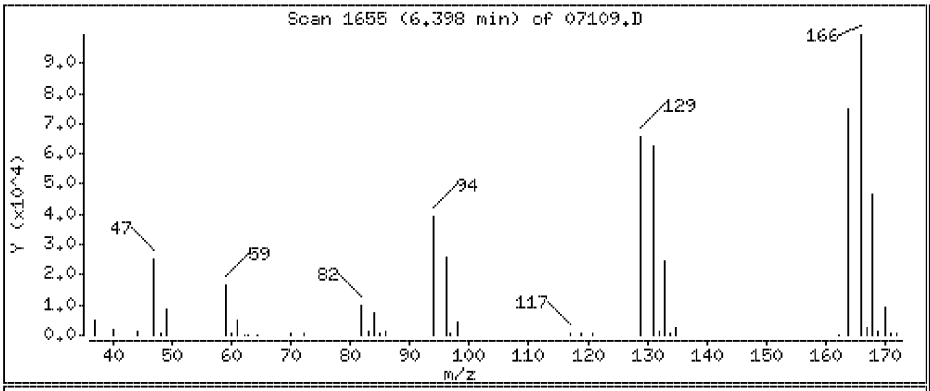
Operator: EMC

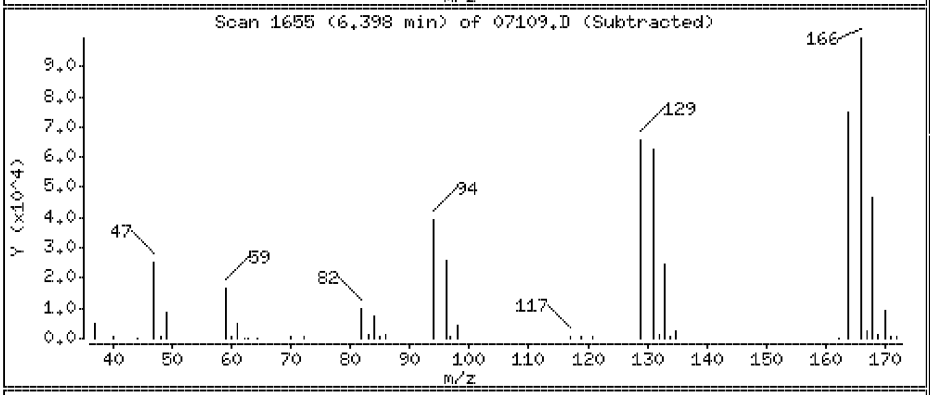
Column phase: J&W DB-5

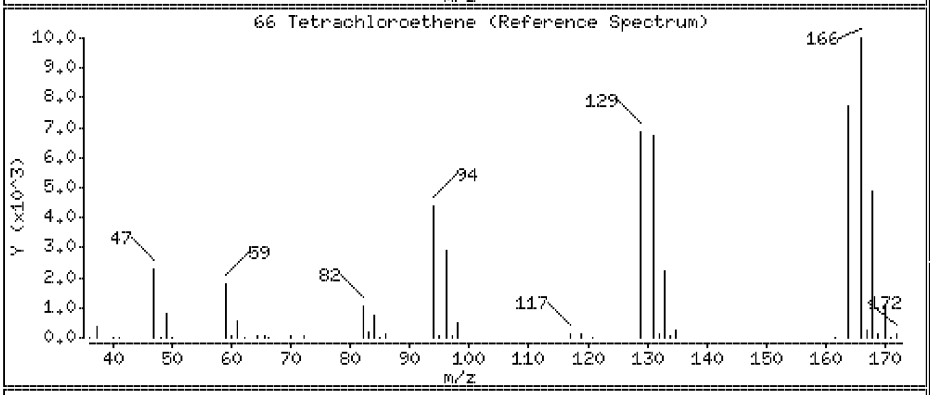
Column diameter: 0.32

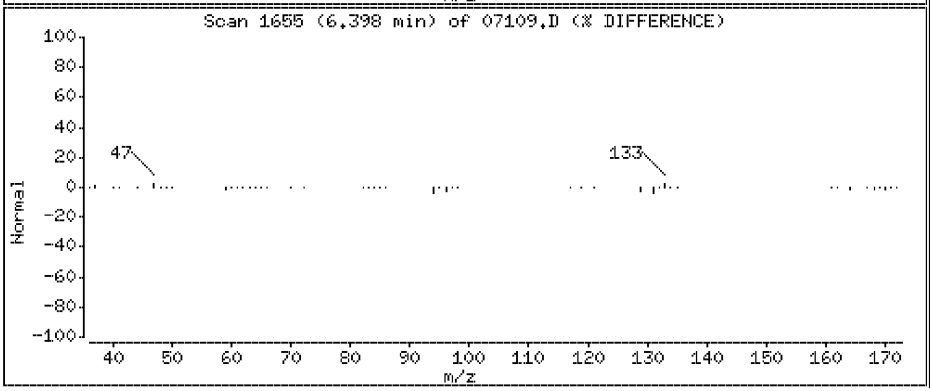
66 Tetrachloroethene

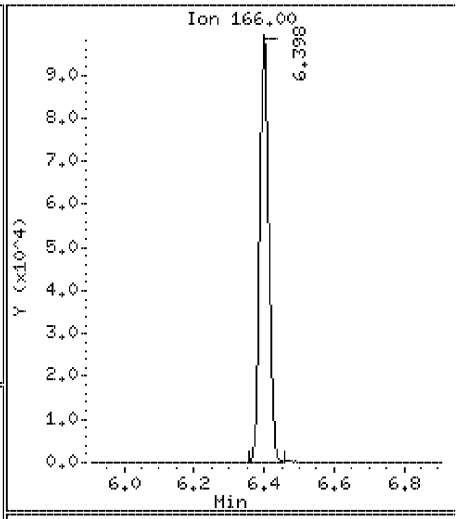
Concentration: 31.7 ppbv

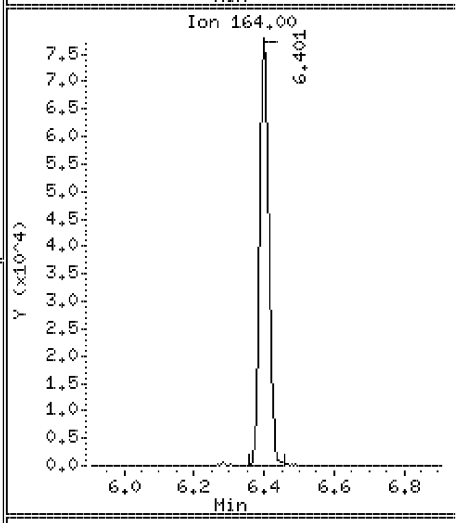


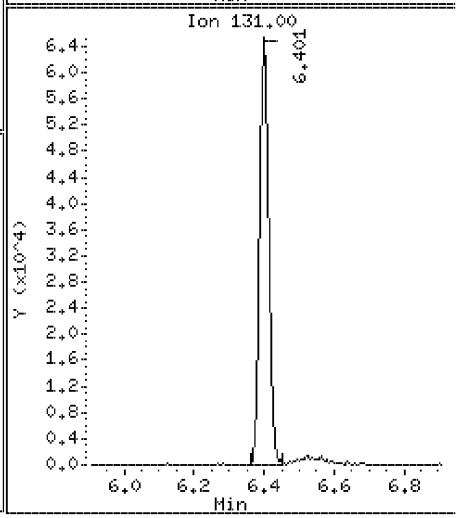












Data File: \\192.168.10.12\chem\10airD.i\031217.b/07109.d
Injection Date: 12-MAR-2017 14:34
Instrument: 10airD.i
Lab Sample ID: 10380372012
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_61.5_20170226 **Lab ID: 10380372013** Collected: 02/26/17 12:26 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**92.1**	ug/m3	12.8	1.8	2.12		03/11/17 18:50	67-64-1	
Allyl chloride	**0.48U**	ug/m3	3.4	0.48	2.12		03/11/17 18:50	107-05-1	
Benzene	**2.8**	ug/m3	0.69	0.26	2.12		03/11/17 18:50	71-43-2	
Bromodichloromethane	**0.41U**	ug/m3	2.9	0.41	2.12		03/11/17 18:50	75-27-4	
Bromoform	**6.1J**	ug/m3	11.1	1.9	2.12		03/11/17 18:50	75-25-2	
Bromomethane	**0.66U**	ug/m3	1.7	0.66	2.12		03/11/17 18:50	74-83-9	
1,3-Butadiene	**0.37U**	ug/m3	0.95	0.37	2.12		03/11/17 18:50	106-99-0	
2-Butanone (MEK)	**5.8J**	ug/m3	6.4	0.48	2.12		03/11/17 18:50	78-93-3	
Carbon disulfide	**0.21U**	ug/m3	1.3	0.21	2.12		03/11/17 18:50	75-15-0	
Carbon tetrachloride	**3.1**	ug/m3	1.4	0.41	2.12		03/11/17 18:50	56-23-5	CH
Chlorobenzene	**0.28U**	ug/m3	2.0	0.28	2.12		03/11/17 18:50	108-90-7	
Chlorodifluoromethane	**0.59U**	ug/m3	1.5	0.59	2.12		03/11/17 18:50	75-45-6	
Chloroethane	**0.41U**	ug/m3	1.1	0.41	2.12		03/11/17 18:50	75-00-3	
Chloroform	**3.2**	ug/m3	1.1	0.40	2.12		03/11/17 18:50	67-66-3	
Chloromethane	**0.23U**	ug/m3	0.89	0.23	2.12		03/11/17 18:50	74-87-3	
Chloropentafluoroethane	**6.8U**	ug/m3	6.8	6.8	2.12		03/11/17 18:50	76-15-3	CL
Cyclohexane	**1.8**	ug/m3	1.5	0.67	2.12		03/11/17 18:50	110-82-7	
1,2-Dibromo-3-chloropropane	**10.4U**	ug/m3	10.4	10.4	2.12		03/11/17 18:50	96-12-8	
Dibromochloromethane	**1.8U**	ug/m3	3.7	1.8	2.12		03/11/17 18:50	124-48-1	
1,2-Dibromoethane (EDB)	**1.6U**	ug/m3	3.3	1.6	2.12		03/11/17 18:50	106-93-4	
1,2-Dichlorobenzene	**1.1U**	ug/m3	2.6	1.1	2.12		03/11/17 18:50	95-50-1	
1,3-Dichlorobenzene	**1.1U**	ug/m3	2.6	1.1	2.12		03/11/17 18:50	541-73-1	
1,4-Dichlorobenzene	**1.1U**	ug/m3	2.6	1.1	2.12		03/11/17 18:50	106-46-7	
Dichlorodifluoromethane	**5.6**	ug/m3	2.1	1.0	2.12		03/11/17 18:50	75-71-8	
1,1-Dichloroethane	**0.33U**	ug/m3	1.7	0.33	2.12		03/11/17 18:50	75-34-3	
1,2-Dichloroethane	**0.43U**	ug/m3	0.87	0.43	2.12		03/11/17 18:50	107-06-2	
1,1-Dichloroethene	**0.50U**	ug/m3	1.7	0.50	2.12		03/11/17 18:50	75-35-4	
cis-1,2-Dichloroethene	**2.2**	ug/m3	1.7	0.52	2.12		03/11/17 18:50	156-59-2	
trans-1,2-Dichloroethene	**0.81U**	ug/m3	1.7	0.81	2.12		03/11/17 18:50	156-60-5	
1,2-Dichloropropane	**0.57U**	ug/m3	2.0	0.57	2.12		03/11/17 18:50	78-87-5	
cis-1,3-Dichloropropene	**0.78U**	ug/m3	2.0	0.78	2.12		03/11/17 18:50	10061-01-5	
trans-1,3-Dichloropropene	**1.1J**	ug/m3	2.0	0.55	2.12		03/11/17 18:50	10061-02-6	
Dichlorotetrafluoroethane	**0.66U**	ug/m3	3.0	0.66	2.12		03/11/17 18:50	76-14-2	
Freon 123	**6.7U**	ug/m3	6.7	6.7	2.12		03/11/17 18:50	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.75U**	ug/m3	7.8	0.75	2.12		03/11/17 18:50	123-91-1	
Ethylbenzene	**2.6**	ug/m3	1.9	0.90	2.12		03/11/17 18:50	100-41-4	
4-Ethyltoluene	**1.9J**	ug/m3	2.1	0.40	2.12		03/11/17 18:50	622-96-8	
Hexachloro-1,3-butadiene	**3.3J**	ug/m3	4.6	1.4	2.12		03/11/17 18:50	87-68-3	
n-Hexane	**82.2**	ug/m3	1.5	0.76	2.12		03/11/17 18:50	110-54-3	
2-Hexanone	**1.5J**	ug/m3	8.8	0.87	2.12		03/11/17 18:50	591-78-6	
Isopropylbenzene (Cumene)	**1.2J**	ug/m3	5.3	0.29	2.12		03/11/17 18:50	98-82-8	
Methyl acetate	**3.3U**	ug/m3	3.3	3.3	2.12		03/11/17 18:50	79-20-9	
Methylcyclohexane	**0.51U**	ug/m3	1.7	0.51	2.12		03/11/17 18:50	108-87-2	
Methylene Chloride	**1640**	ug/m3	20.0	3.1	5.67		03/13/17 17:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.46U**	ug/m3	8.8	0.46	2.12		03/11/17 18:50	108-10-1	
Methyl-tert-butyl ether	**0.86J**	ug/m3	7.8	0.64	2.12		03/11/17 18:50	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.d
Report Date: 13-Mar-2017 11:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07016.d
Lab Smp Id: 10380372013
Inj Date : 11-MAR-2017 18:50
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 16
Dil Factor: 2.11680
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.117	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.152	2.181	(0.507)	34799	0.52919	1.12	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	2.515	2.534	(0.593)	33490	7.29298	15.4	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	2.605	2.630	(0.614)	27175	0.39502	0.836	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.646	2.666	(0.624)	647401	17.9992	38.1	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	2.823	2.848	(0.665)	18285	0.33903	0.718	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.d
Report Date: 13-Mar-2017 11:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	2.871	2.897	(0.676)	2919341	180.639	382(A)	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	3.131	3.140	(0.738)	5655	0.11047	0.234(Q)	
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.272	3.291	(0.771)	1492878	9.40158	9.40	
	33 Methyl Ethyl Ketone	72	3.346	3.362	(0.788)	8669	0.91158	1.93(Q)	
	34 n-Hexane	57	3.349	3.372	(0.789)	371913	10.8166	22.9(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 cis-1,2-Dichloroethene	96	3.465	3.490	(0.816)	5794	0.26256	0.556	
	37 Ethyl Acetate	43	3.497	3.503	(0.824)	8950	0.16269	0.344(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	3.561	3.590	(0.839)	16828	0.30196	0.639	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	4.103	4.126	(0.967)	26510	0.40276	0.853	
	45 Carbon tetrachloride	117	4.116	4.138	(0.970)	12249	0.23214	0.491	
	44 Cyclohexane	56	4.126	4.138	(0.972)	8145	0.23970	0.507(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.244	4.267	(1.000)	2991050	10.0000		
	48 2,2,4-Trimethylpentane	57	4.370	4.392	(1.029)	22126	158.544	336(A)	
	49 Heptane	43	4.485	4.507	(1.057)	12330	0.23996	0.508	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	4.568	4.591	(1.076)	606060	16.7744	35.5	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 Bromodichloromethane	83	Compound Not Detected.						(D)
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						(D)
	58 trans-1,3-Dichloropropene	75	5.502	5.518	(1.296)	1428	0.10789	0.228(Q)	
$	59 Toluene-d8 (S)	98	5.563	5.579	(1.311)	2820155	9.40964	9.41	
	60 Toluene	91	5.631	5.650	(1.327)	200655	2.26930	4.80	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	5.900	5.894	(0.839)	8816	0.17336	0.367	
	63 n-Octane	43	6.057	6.064	(0.862)	10239	0.19363	0.410(QM)	
	64 Dibromochloromethane	129	Compound Not Detected.						(D)
	65 1,2-Dibromoethane	107	Compound Not Detected.						(D)
	66 Tetrachloroethene	166	6.404	6.417	(0.911)	407555	8.65144	18.3	
*	67 Chlorobenzene - d5	117	7.030	7.042	(1.000)	2130890	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	7.312	7.325	(1.040)	25694	0.27481	0.582	
	70 m&p-Xylene	91	7.456	7.469	(1.061)	67807	0.79517	1.68	
	71 Bromoform	173	7.826	7.832	(1.113)	4660	0.27332	0.579	
	72 n-Nonane	43	7.858	7.864	(1.118)	171849	3.52216	7.46	
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	7.928	7.938	(1.128)	26901	0.34899	0.739	
	75 1,1,2,2-Tetrachloroethane	83	8.195	8.201	(1.166)	5064	0.09888	0.209	
	76 Isopropylbenzene	105	8.496	8.506	(1.209)	11226	0.11764	0.249	
	77 N-Propylbenzene	91	9.058	9.061	(1.288)	13475	0.13426	0.284	
	78 4-Ethyltoluene	105	9.228	9.234	(1.313)	14865	0.18107	0.383	

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.d
Report Date: 13-Mar-2017 11:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	9.318	9.321	(1.325)	18006	0.19978	0.423	
80	n-Decane	57	9.719	9.728	(2.290)	7368	0.15157	0.321	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	9.821	9.834	(1.397)	38161	0.41073	0.869	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.203	(1.450)	1259146	9.64442	9.64	
86	Benzyl Chloride	91	10.219	10.226	(1.454)	4040	0.07769	0.164	
87	1,4-Dichlorobenzene	146	10.232	10.242	(1.456)	4173	0.08006	0.169(Q)	
88	p-Isopropyltoluene	119	10.377	10.380	(1.476)	10946	0.13089	0.277	
89	1,2,3-Trimethylbenzene	105	10.412	10.418	(1.481)	10377	0.15859	0.336	
90	1,2-Dichlorobenzene	146	10.710	10.707	(1.524)	3648	0.07888	0.167	
91	N-Butylbenzene	91	10.973	10.970	(1.561)	9336	0.13607	0.288	
92	1,2-Dibromo-3-Chloropropane	157	11.532	11.532	(1.640)	1386	0.13119	0.278	
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.957	12.957	(1.843)	7176	0.32137	0.680	
95	Hexachlorobutadiene	225	13.216	13.213	(1.880)	2691	0.14496	0.307	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.d
Report Date: 13-Mar-2017 11:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07016.d
Lab Smp Id: 10380372013
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 10:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

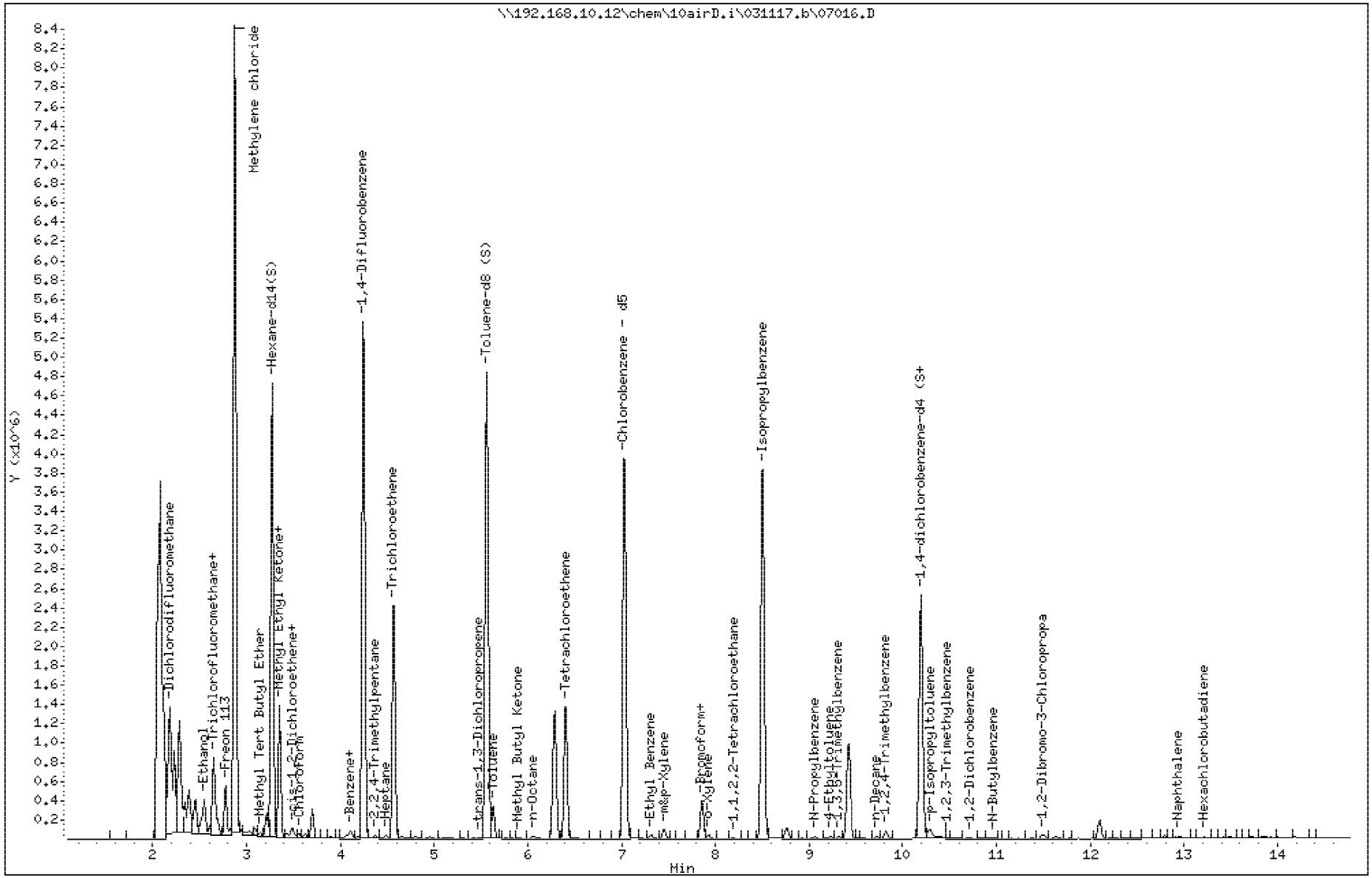
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	2991050	-21.03
67 Chlorobenzene - d	3280875	1968525	4593225	2130890	-35.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.27	3.94	4.60	4.24	-0.53
67 Chlorobenzene - d	7.04	6.71	7.37	7.03	-0.18

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D
Date : 11-MAR-2017 18:50
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

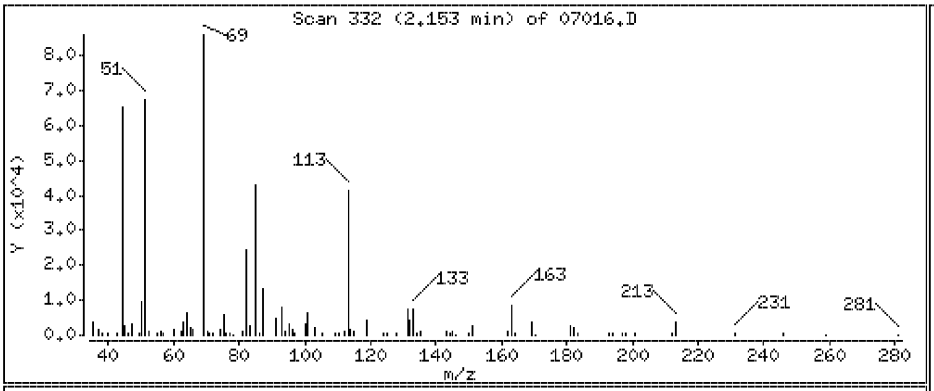
Operator: DR1

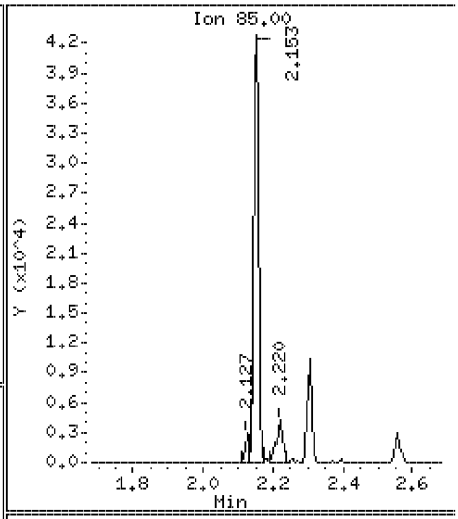
Column phase: J&W DB-5

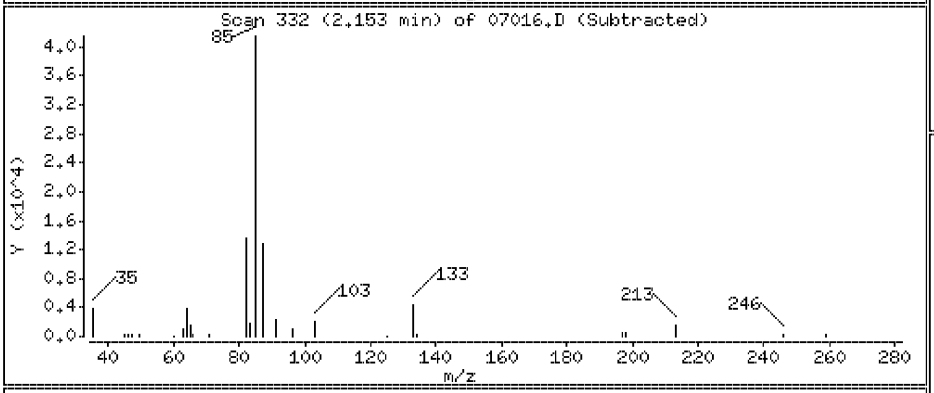
Column diameter: 0.32

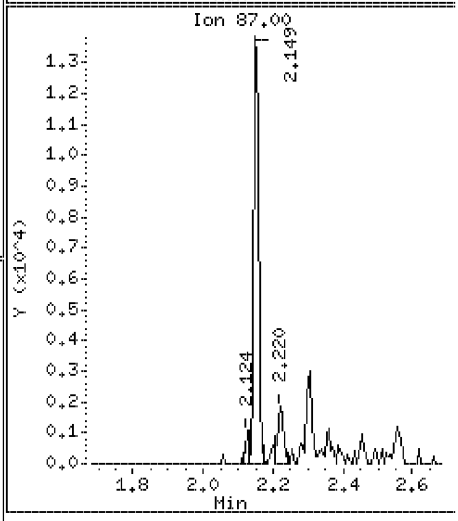
5 Dichlorodifluoromethane

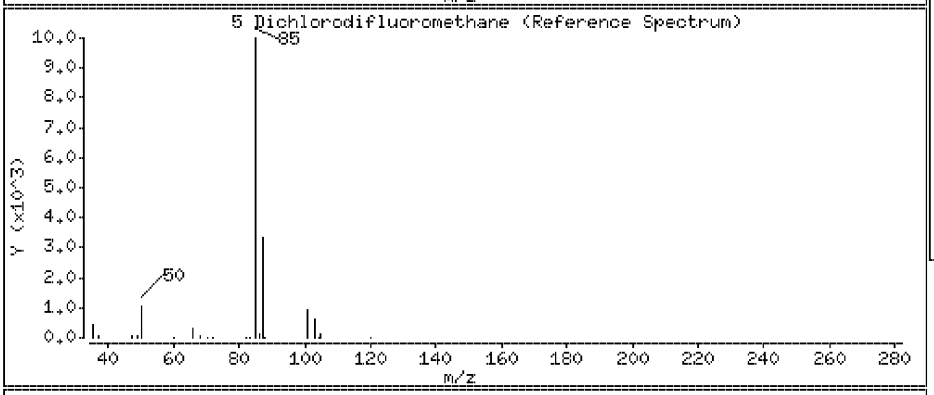
Concentration: 1.12 ppbv

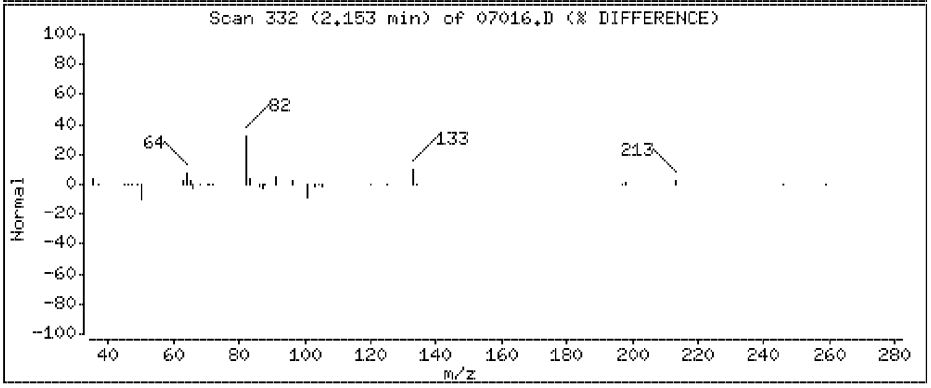












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

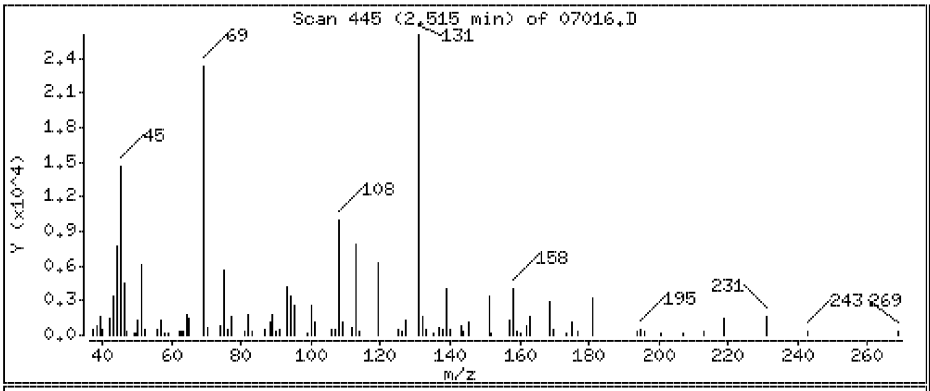
Operator: DR1

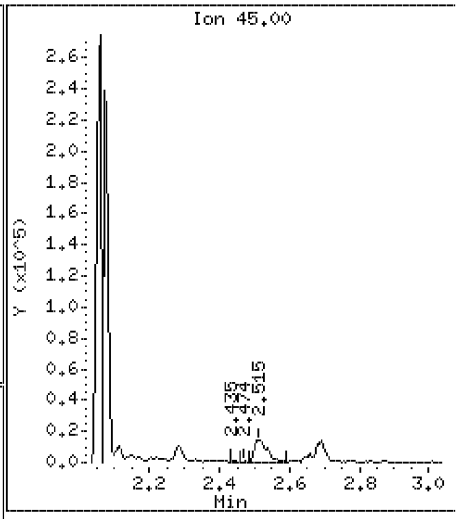
Column phase: J&W DB-5

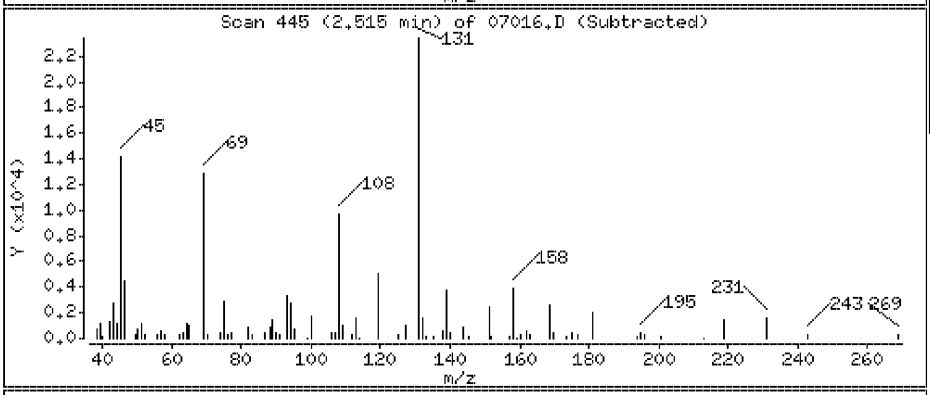
Column diameter: 0.32

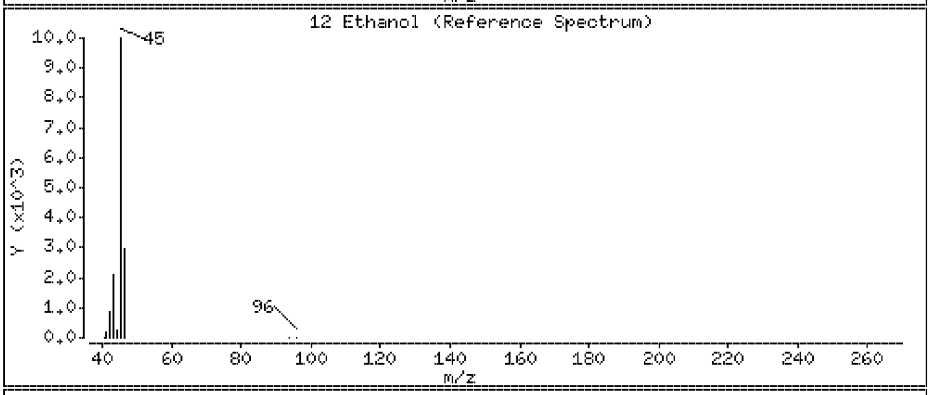
12 Ethanol

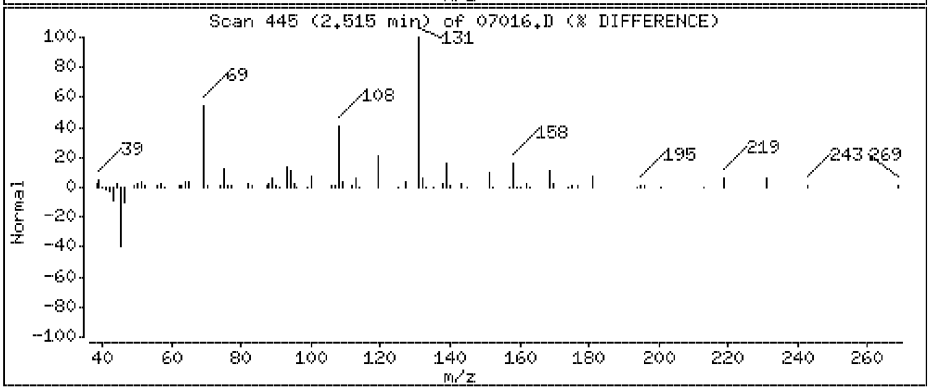
Concentration: 15.4 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

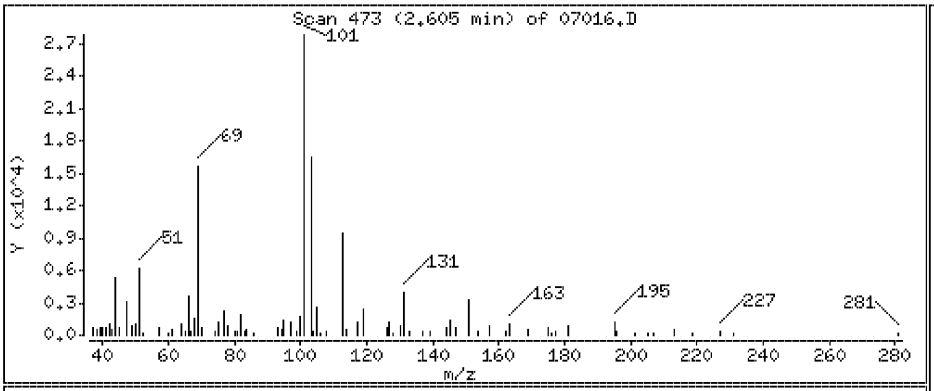
Operator: DR1

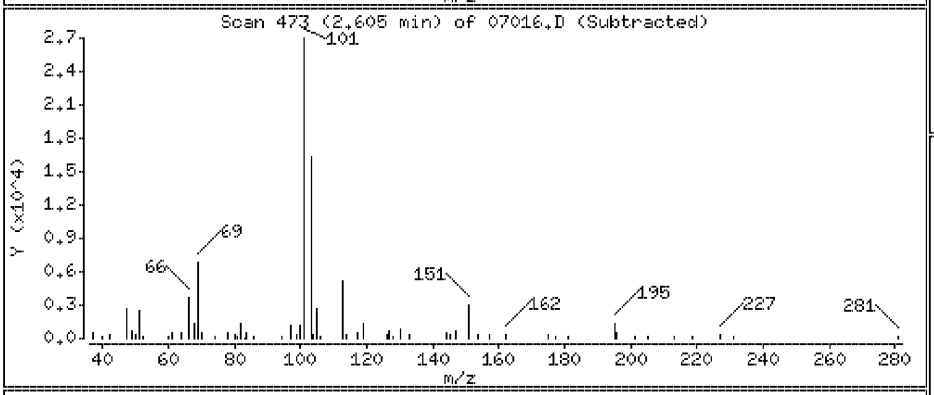
Column phase: J&W DB-5

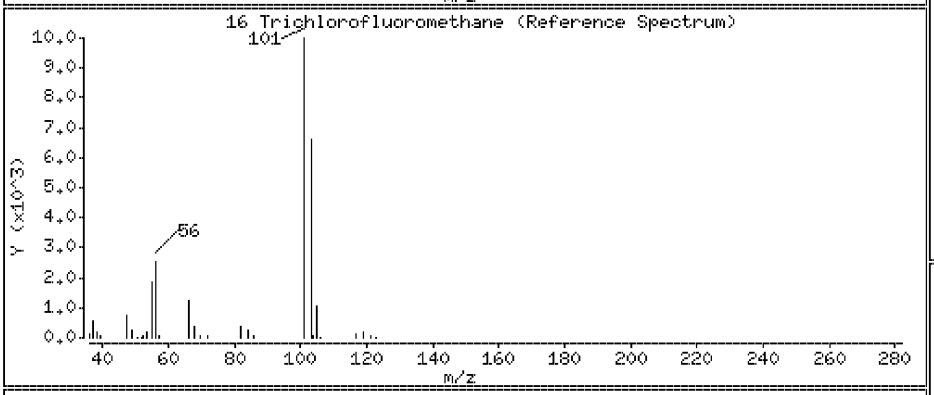
Column diameter: 0.32

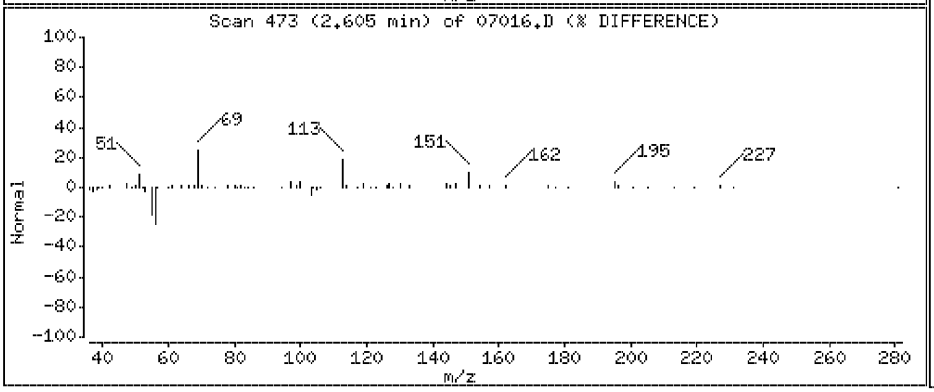
16 Trichlorofluoromethane

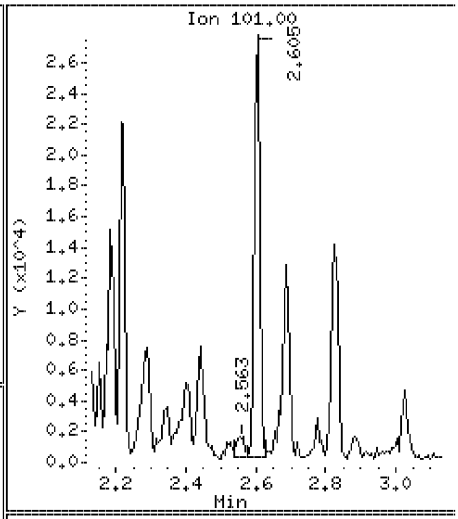
Concentration: 0.836 ppbv

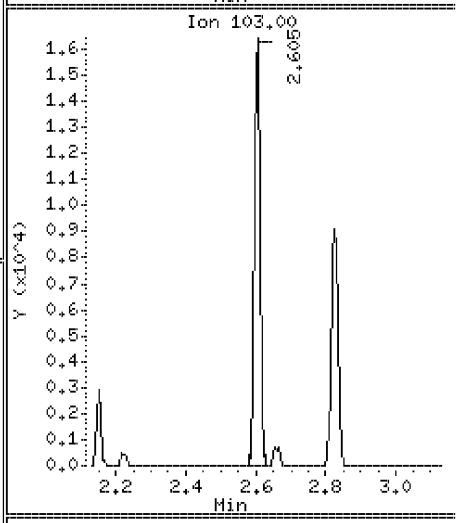


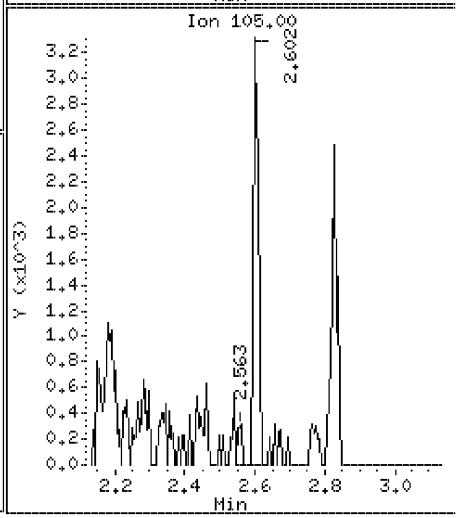












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

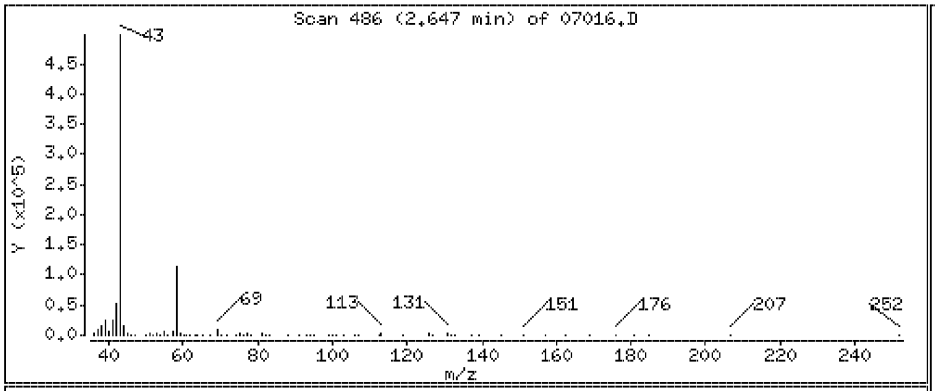
Operator: DR1

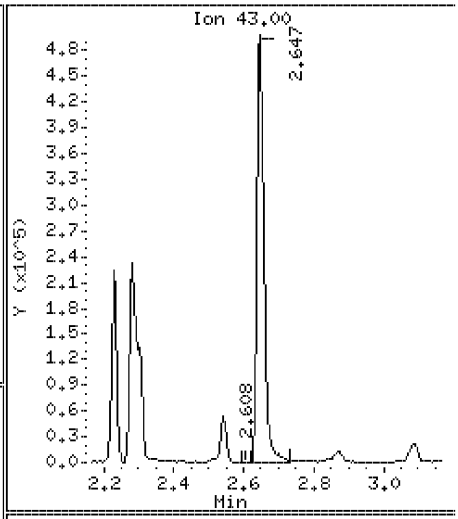
Column phase: J&W DB-5

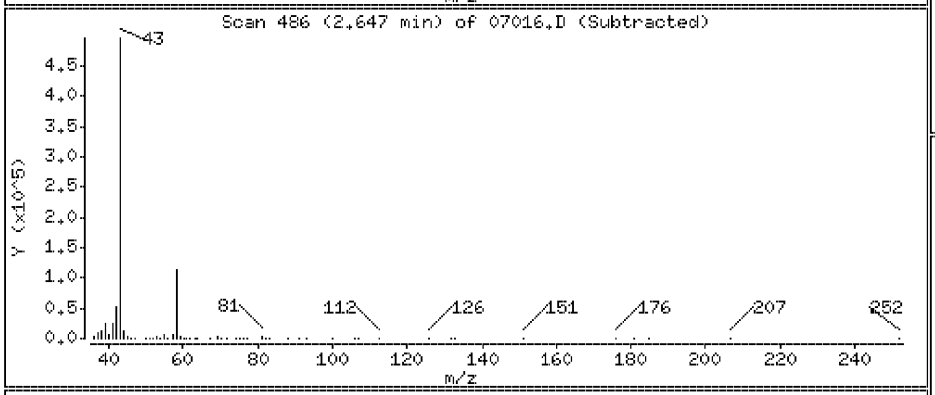
Column diameter: 0.32

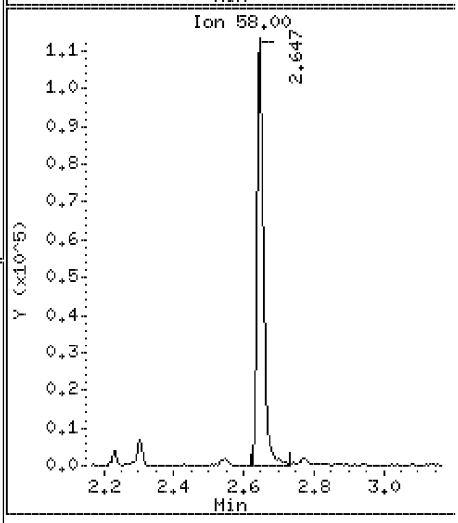
18 Acetone

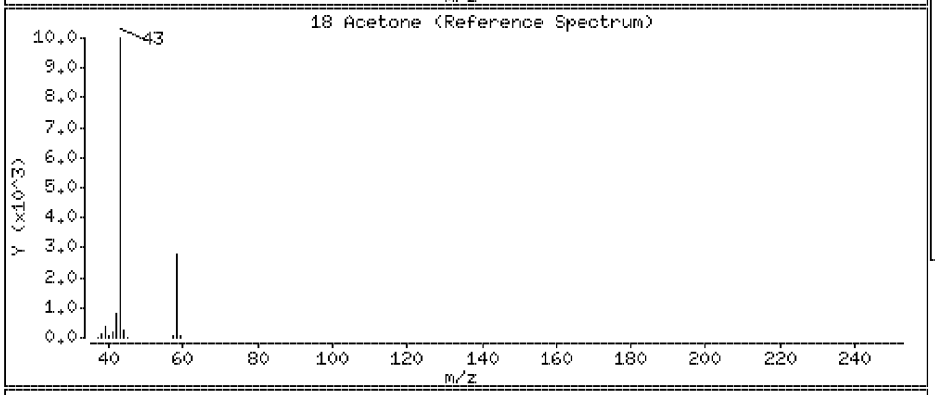
Concentration: 38.1 ppbv

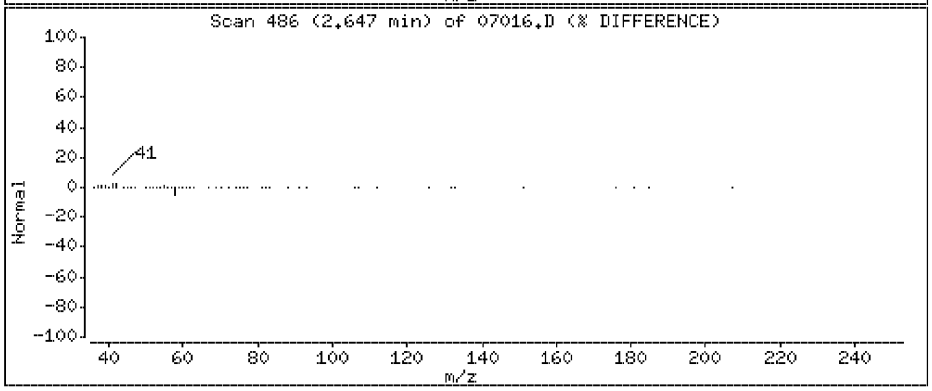












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

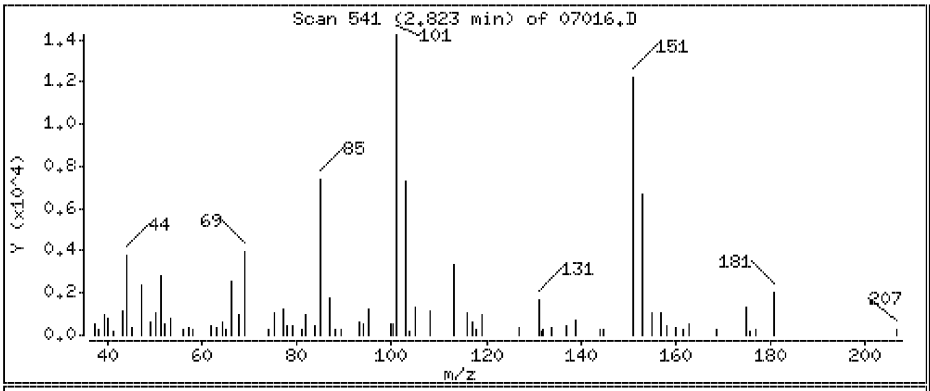
Operator: DR1

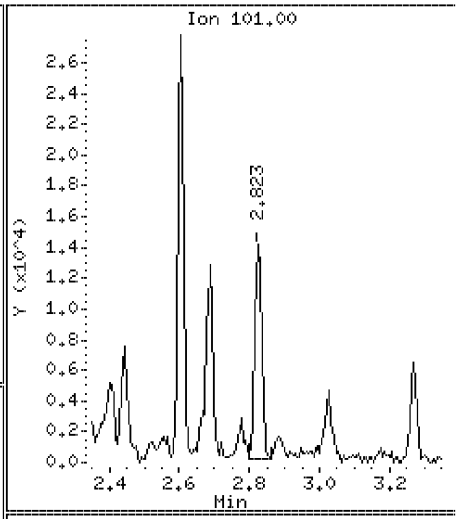
Column phase: J&W DB-5

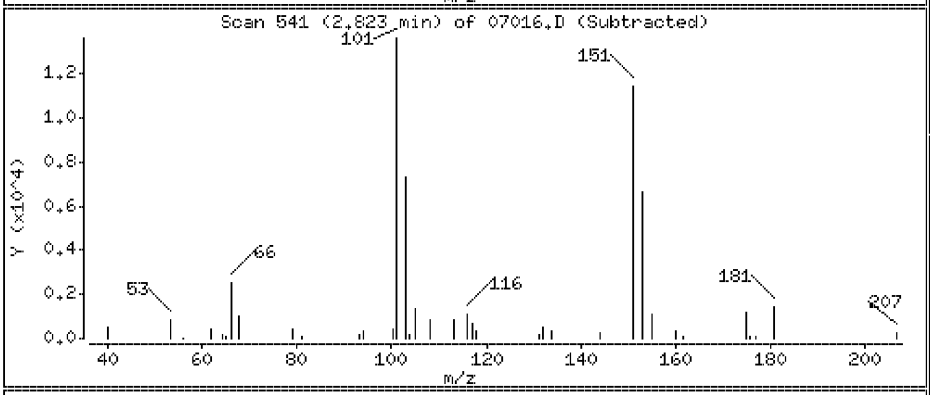
Column diameter: 0.32

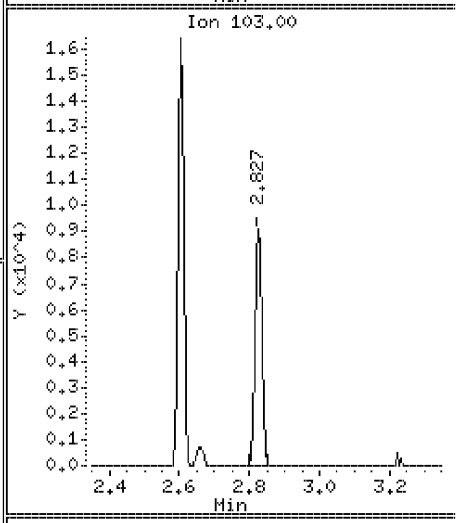
22 Freon 113

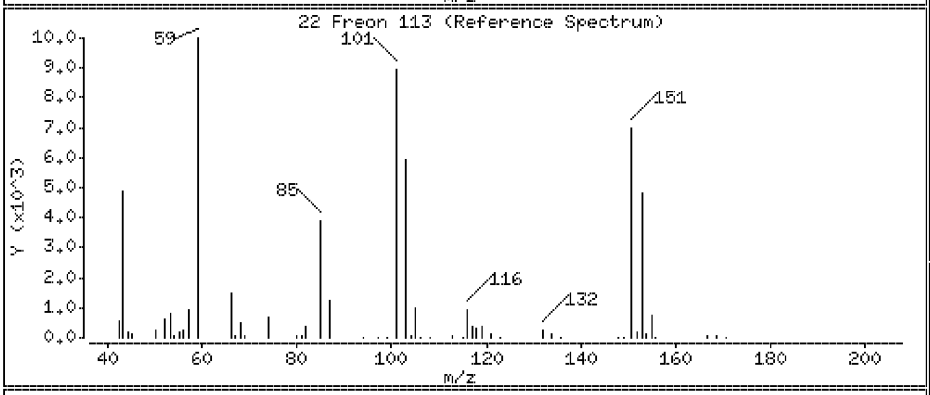
Concentration: 0.718 ppbv

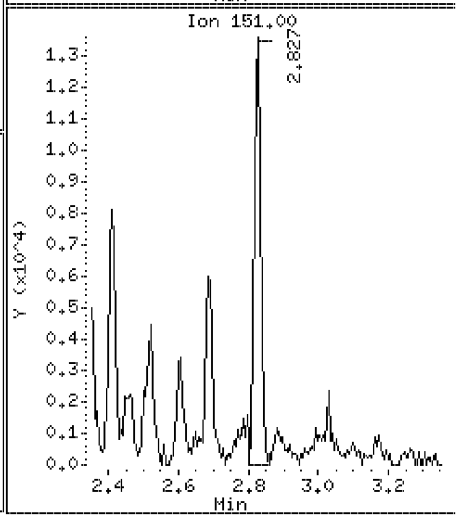


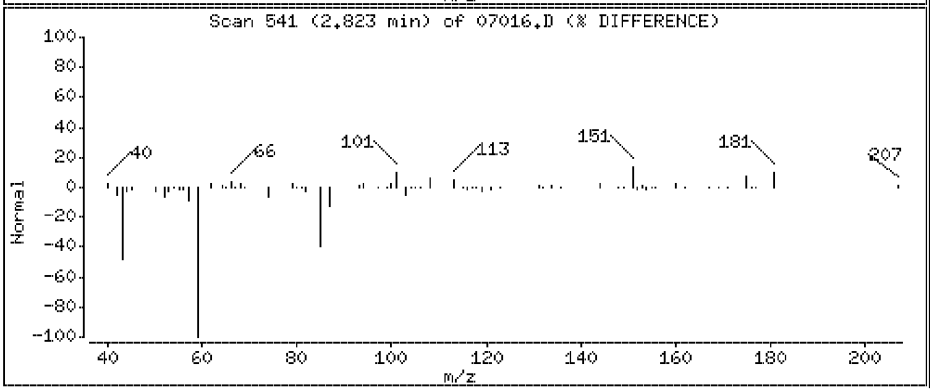












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

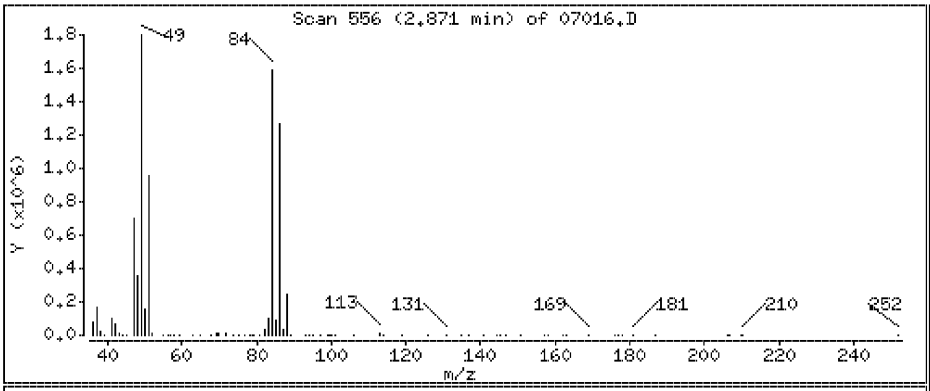
Operator: DR1

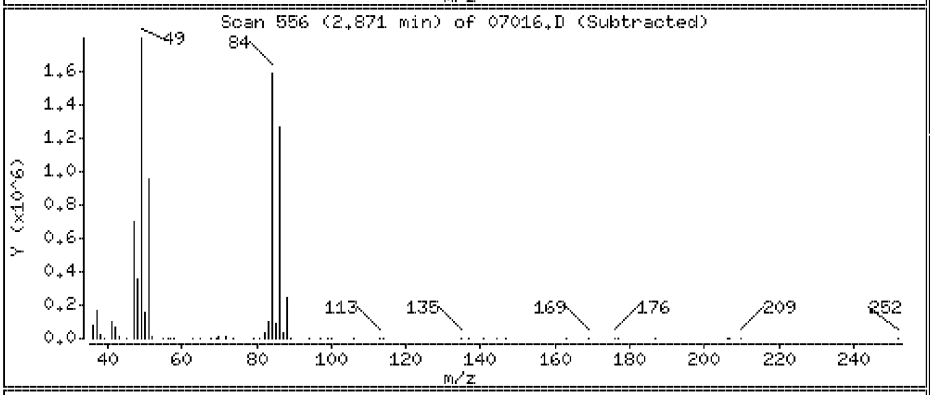
Column phase: J&W DB-5

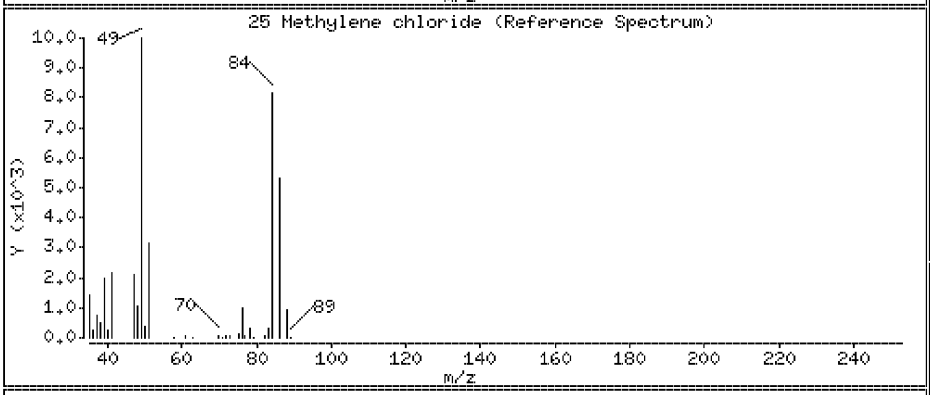
Column diameter: 0.32

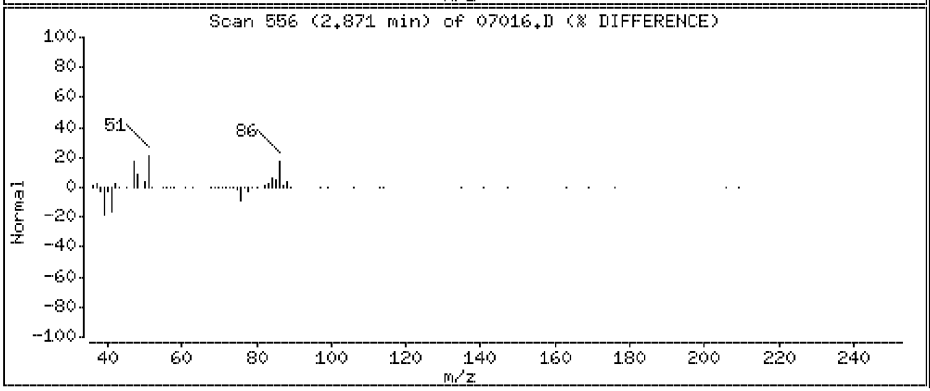
25 Methylene chloride

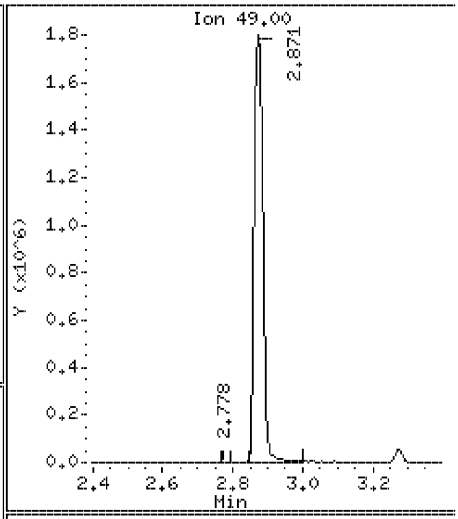
Concentration: 382 ppbv

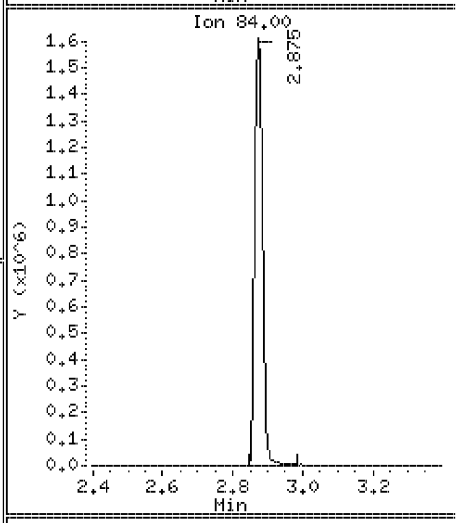


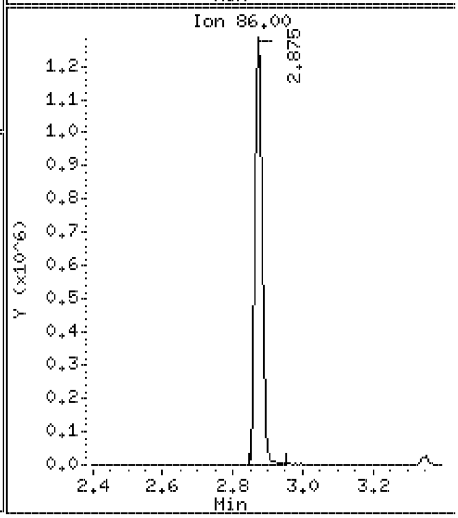












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

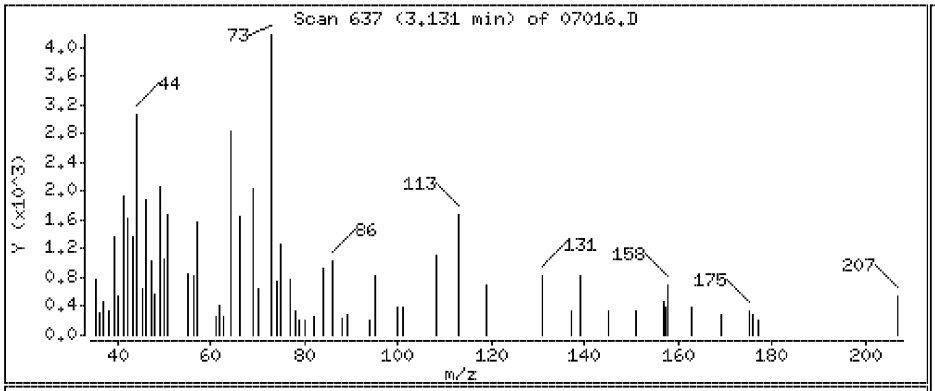
Operator: DR1

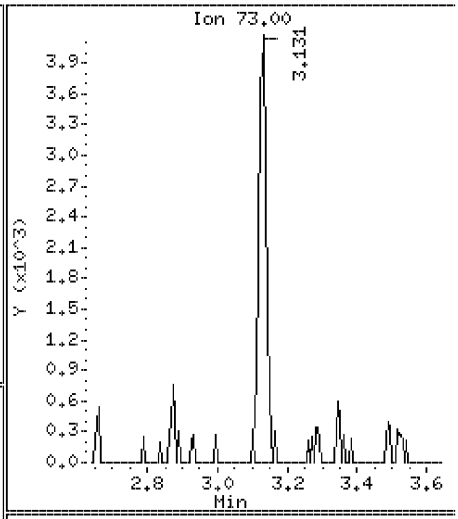
Column phase: J&W DB-5

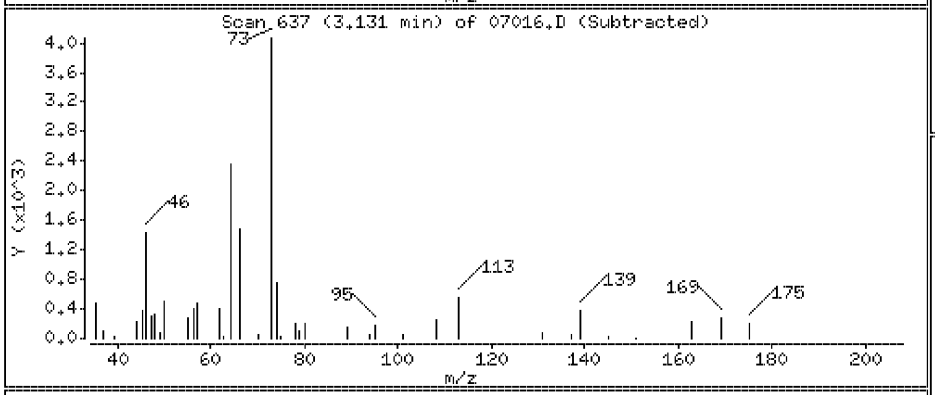
Column diameter: 0.32

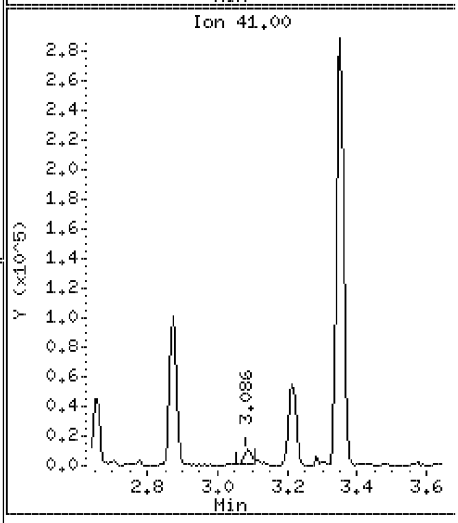
29 Methyl Tert Butyl Ether

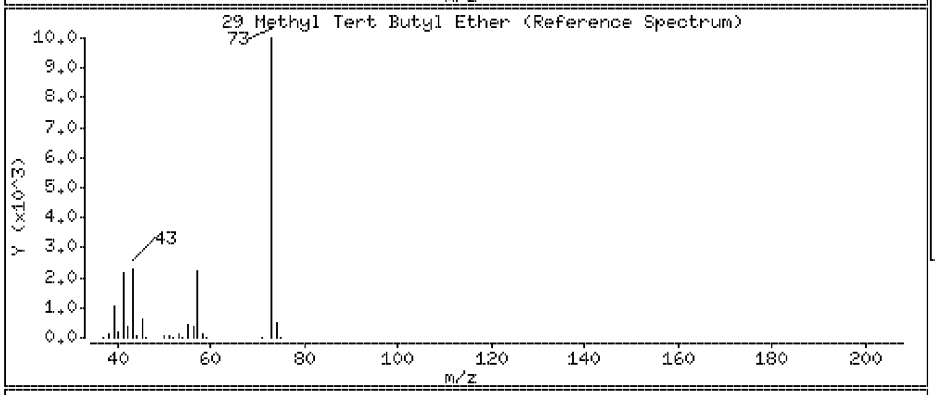
Concentration: 0.234 ppbv

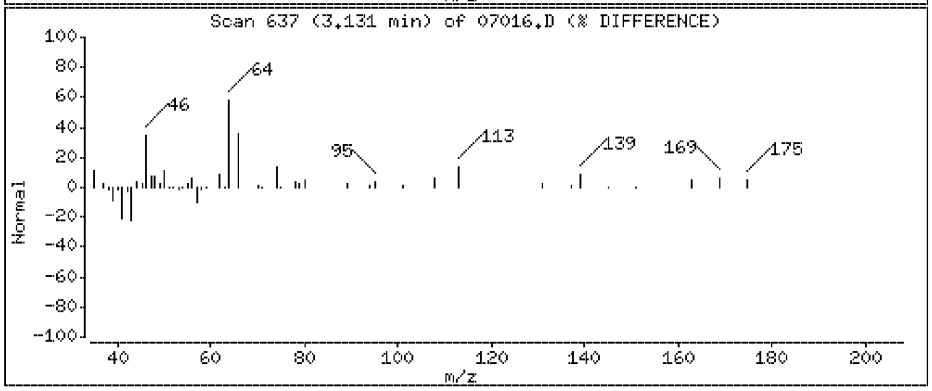












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

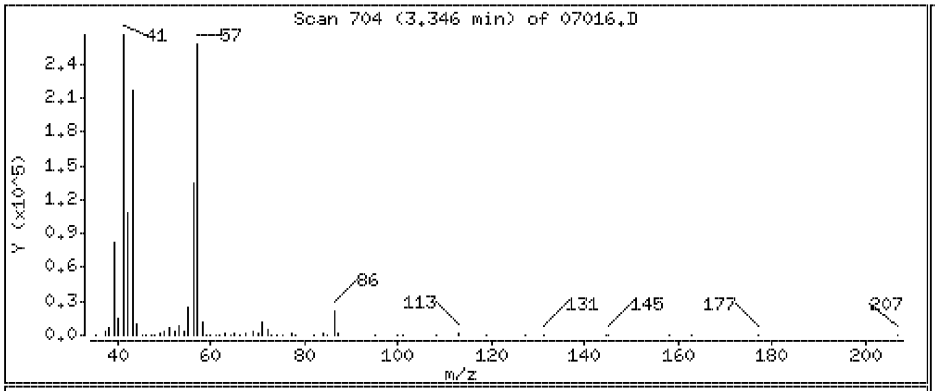
Operator: DR1

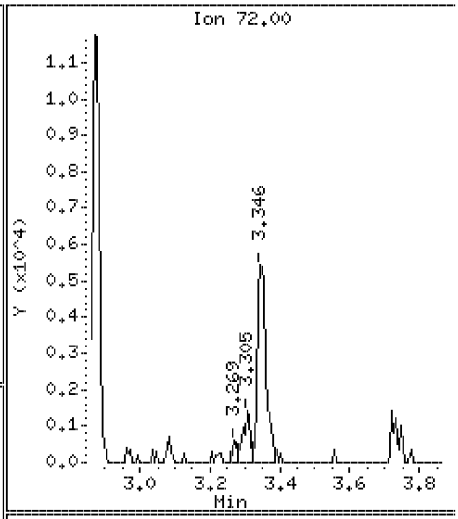
Column phase: J&W DB-5

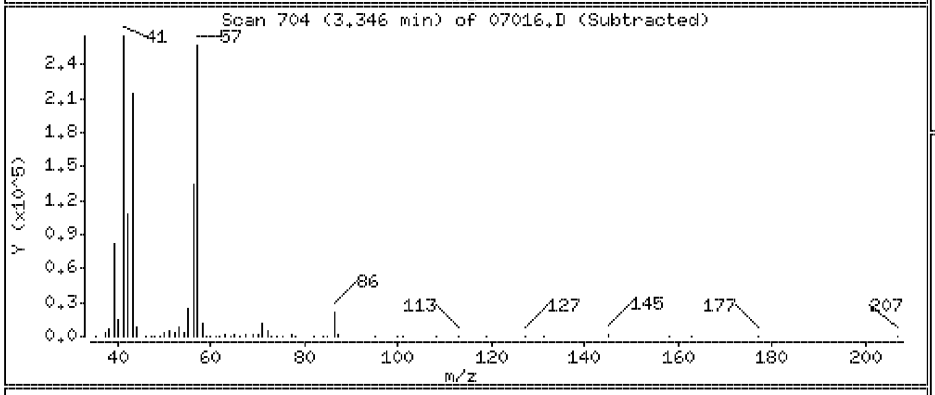
Column diameter: 0.32

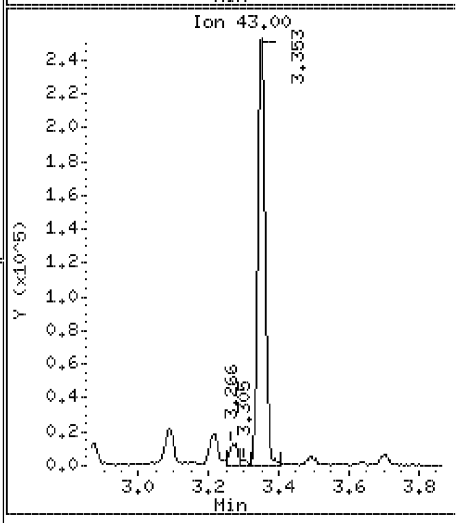
33 Methyl Ethyl Ketone

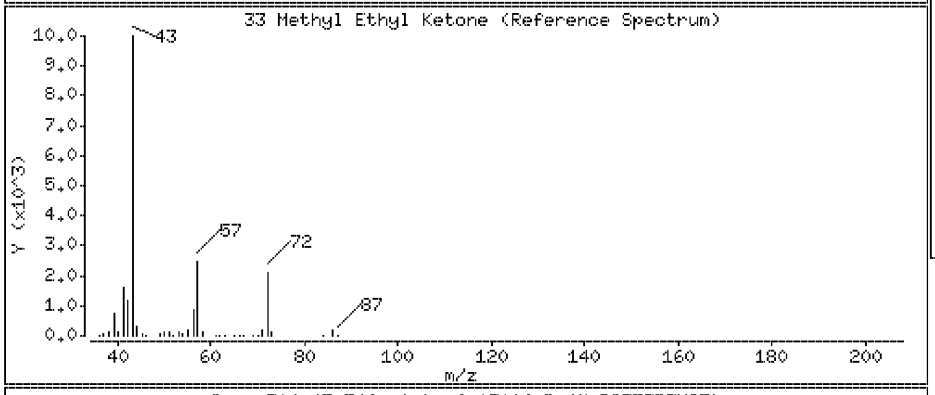
Concentration: 1.93 ppbv

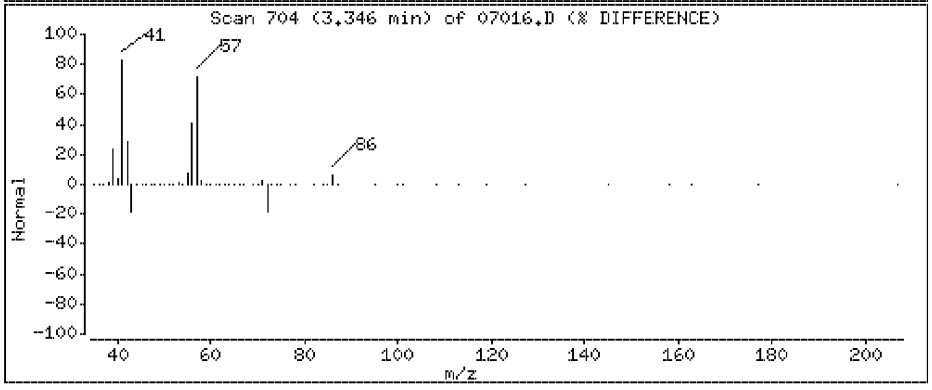












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

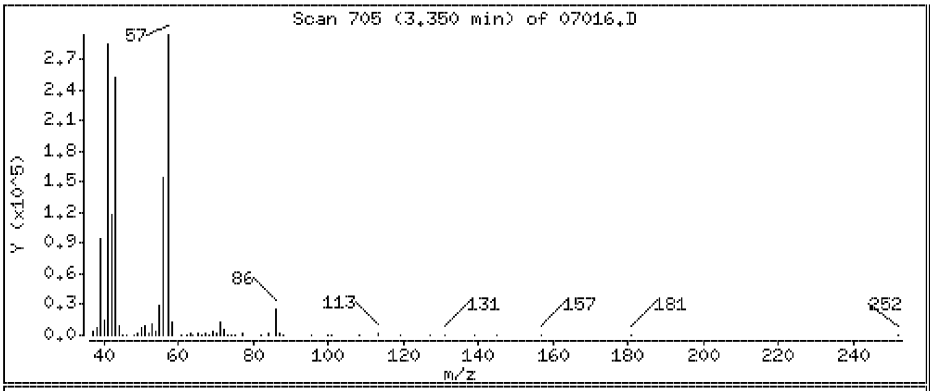
Operator: DR1

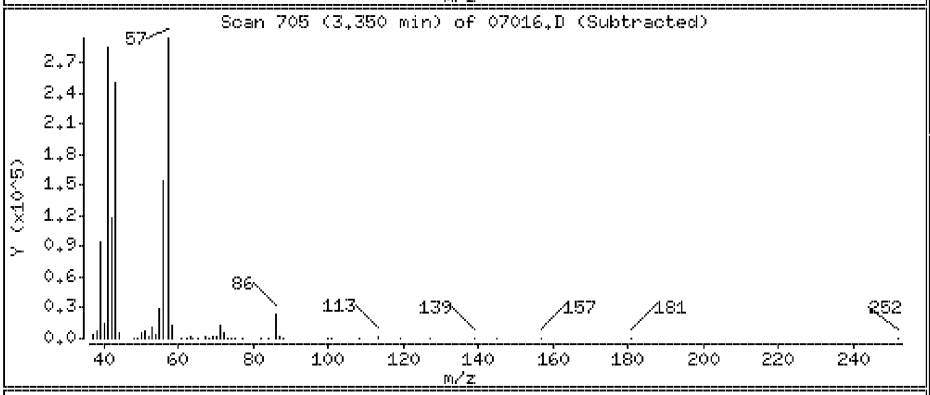
Column phase: J&W DB-5

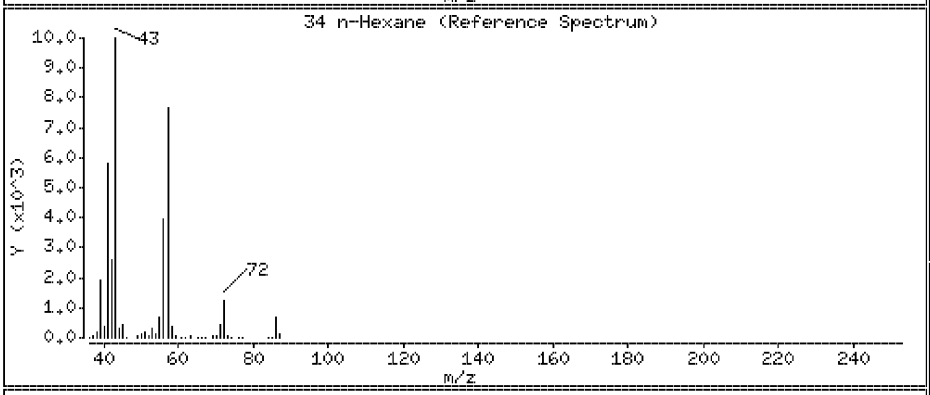
Column diameter: 0.32

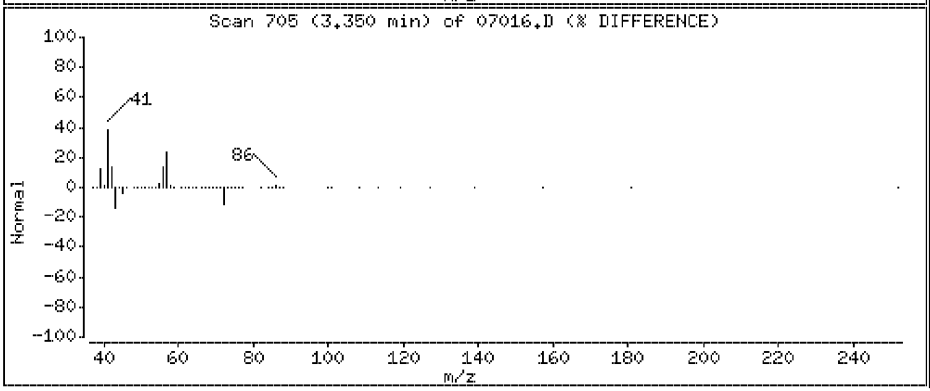
34 n-Hexane

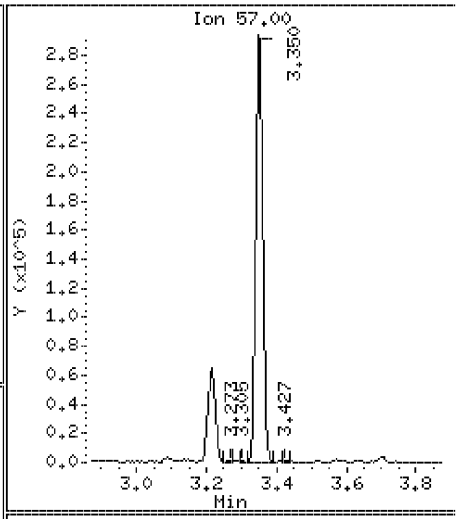
Concentration: 22.9 ppbv

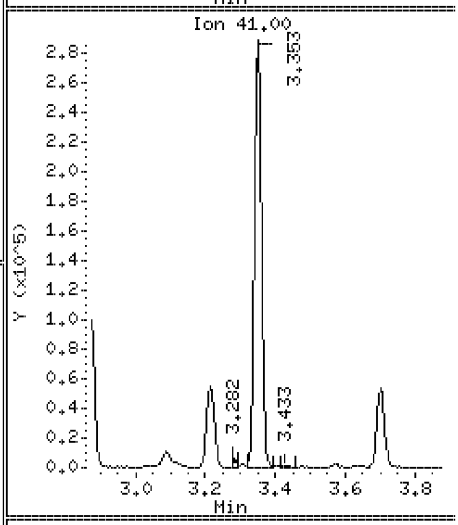


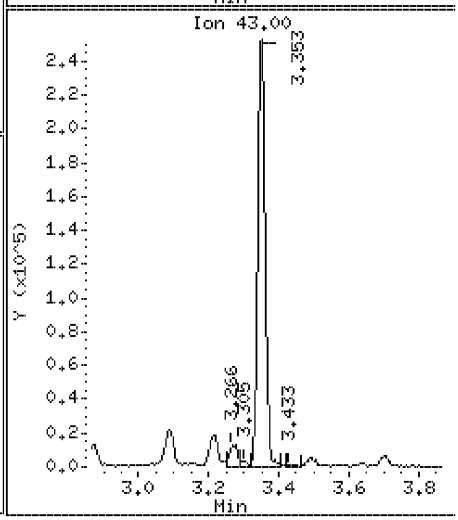












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

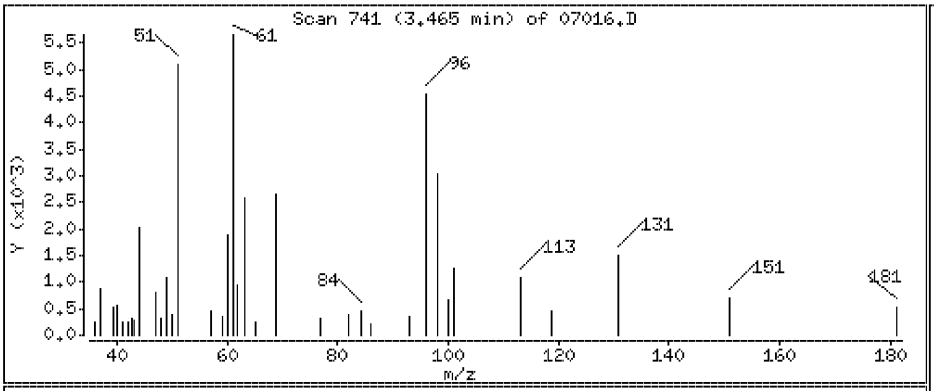
Operator: DR1

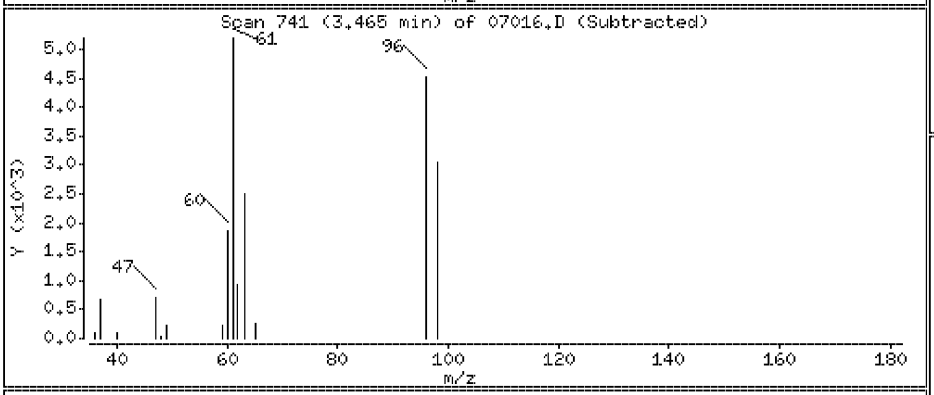
Column phase: J&W DB-5

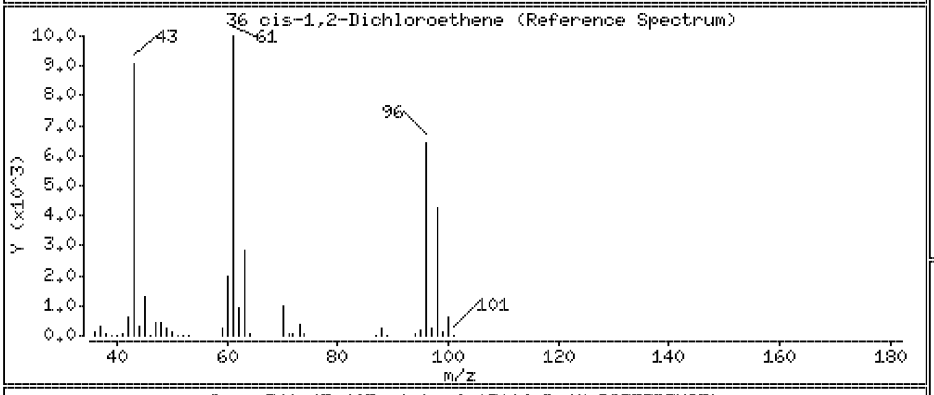
Column diameter: 0.32

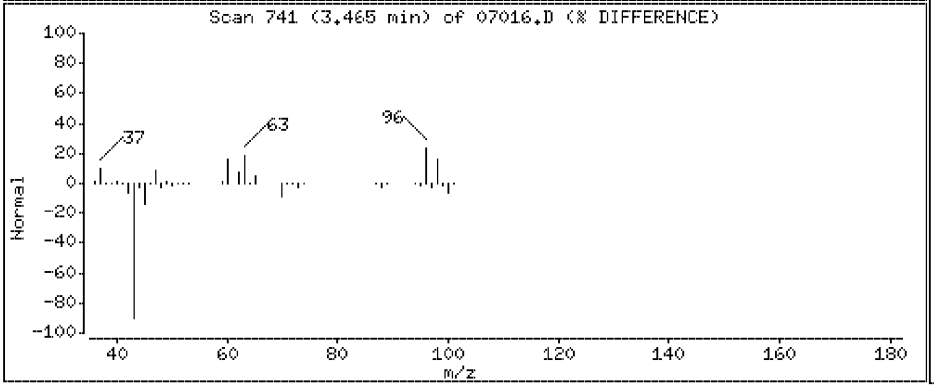
36 cis-1,2-Dichloroethene

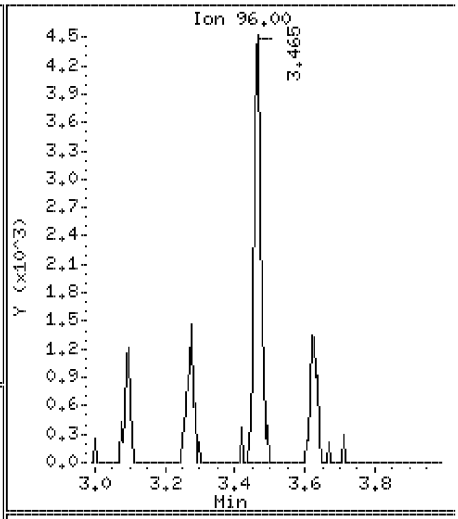
Concentration: 0.556 ppbv

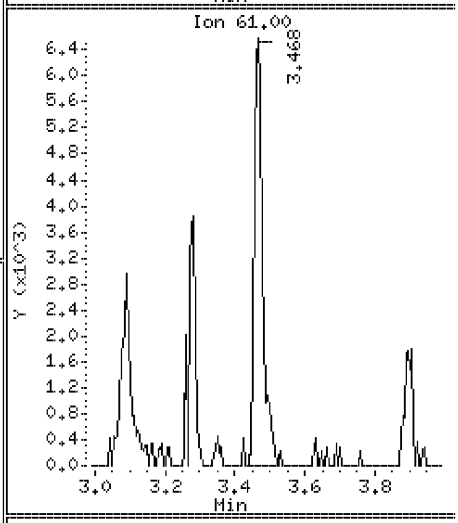


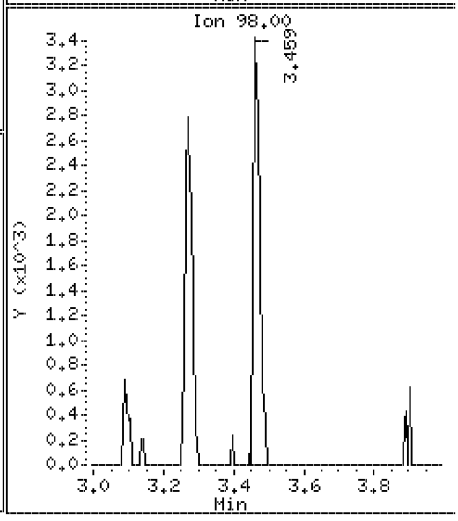












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

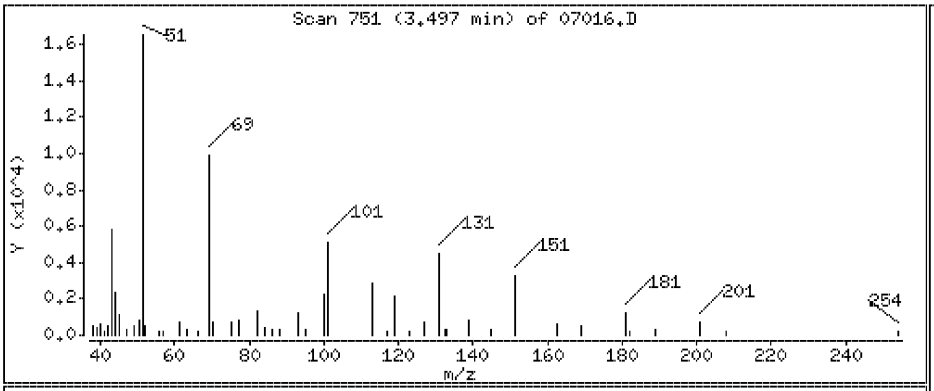
Operator: DR1

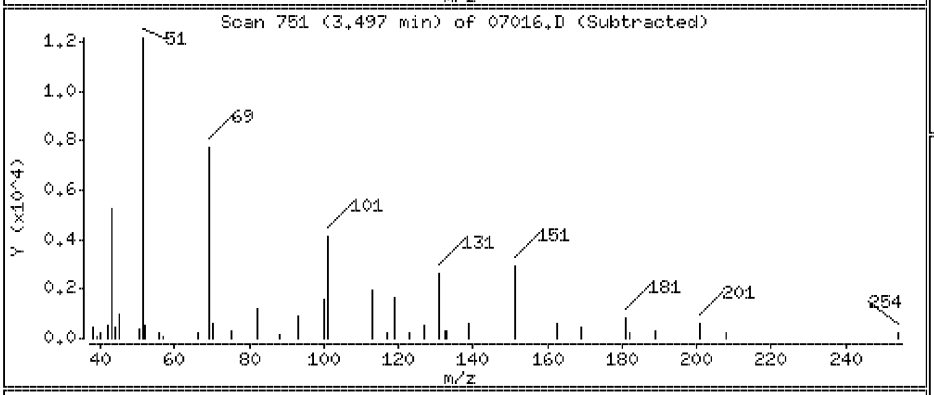
Column phase: J&W DB-5

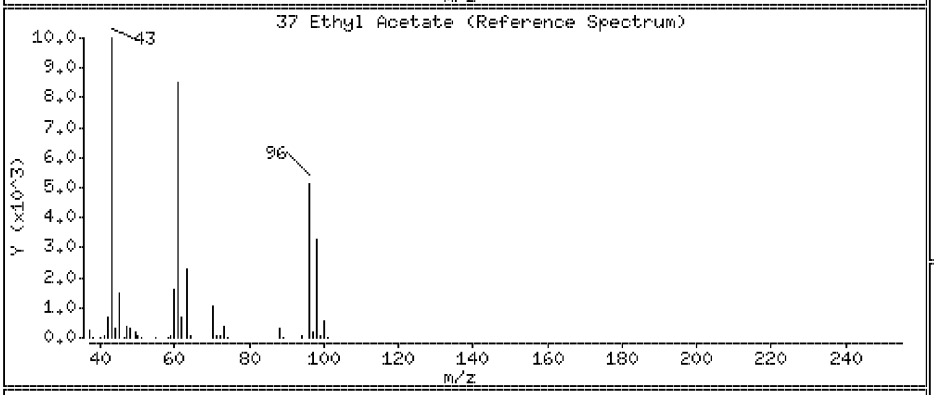
Column diameter: 0.32

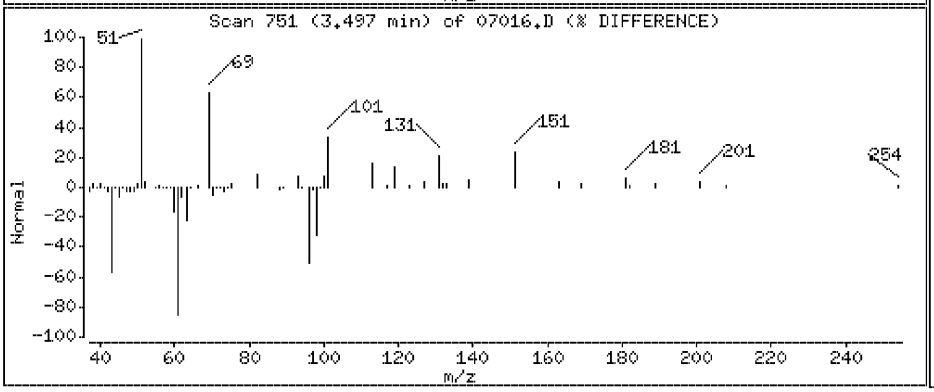
37 Ethyl Acetate

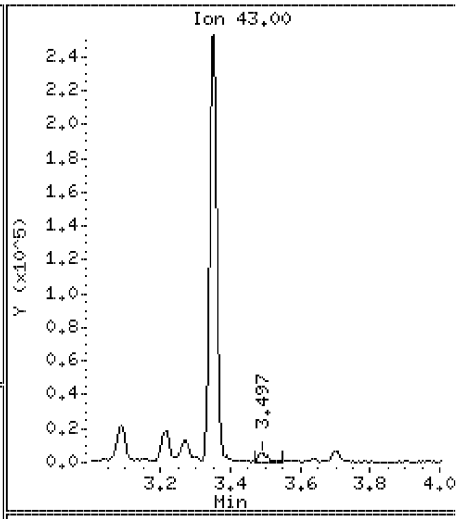
Concentration: 0.344 ppbv

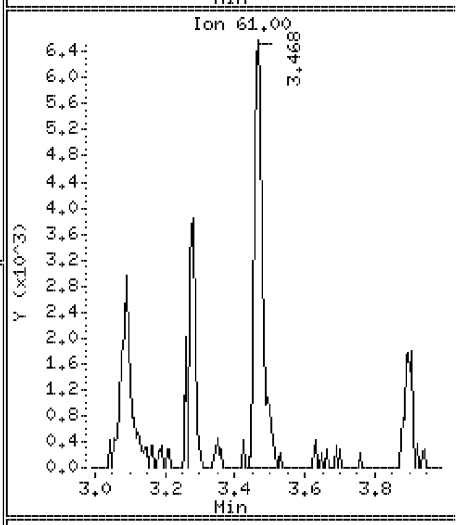


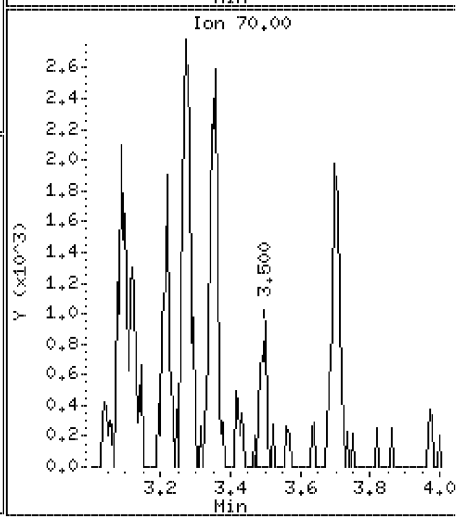












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

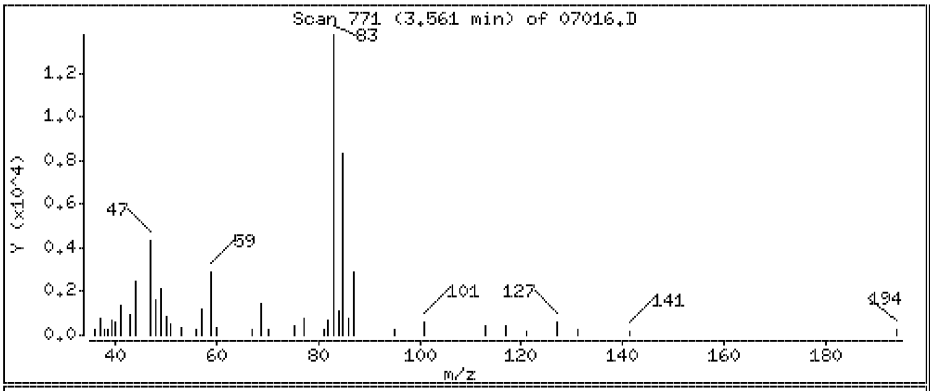
Operator: DR1

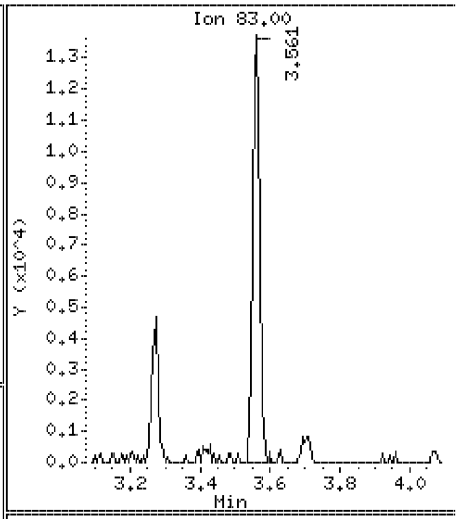
Column phase: J&W DB-5

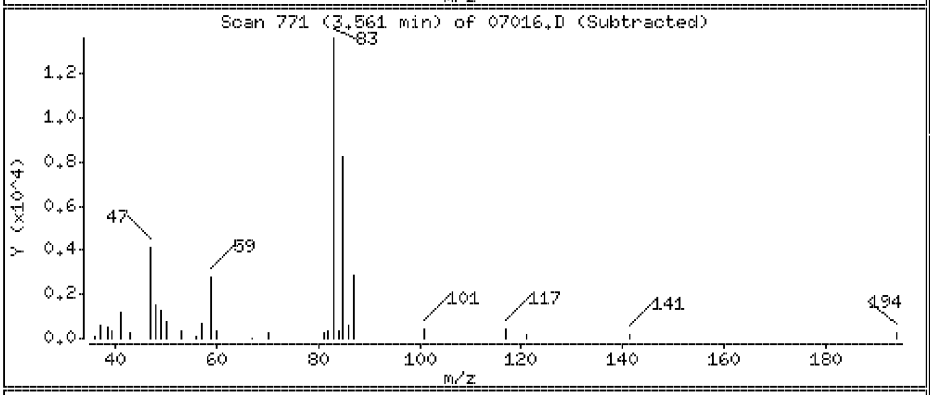
Column diameter: 0.32

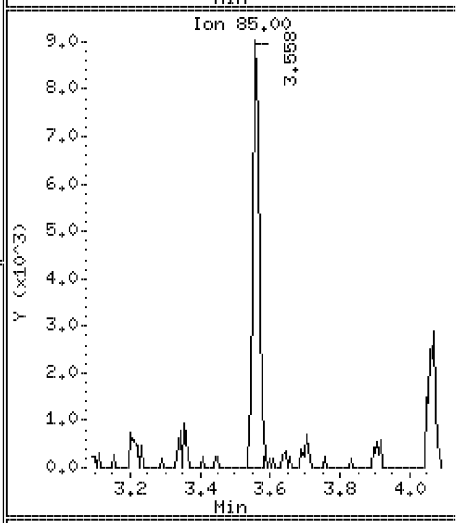
39 Chloroform

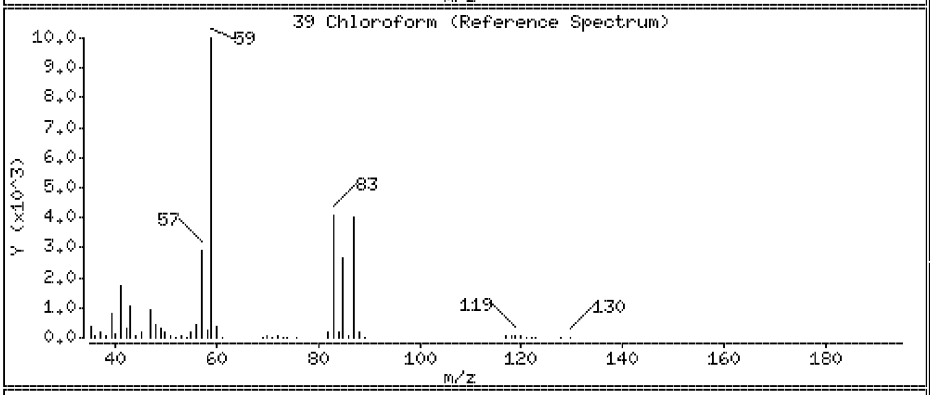
Concentration: 0.639 ppbv

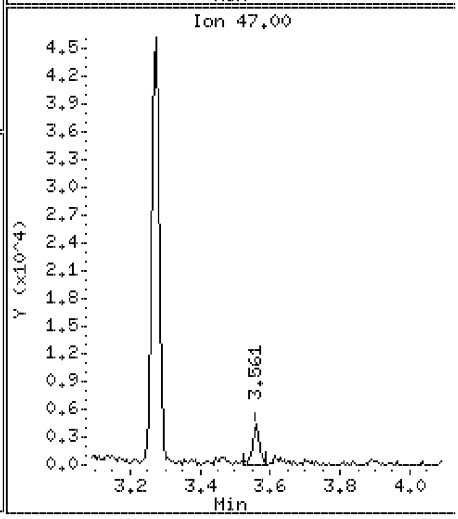


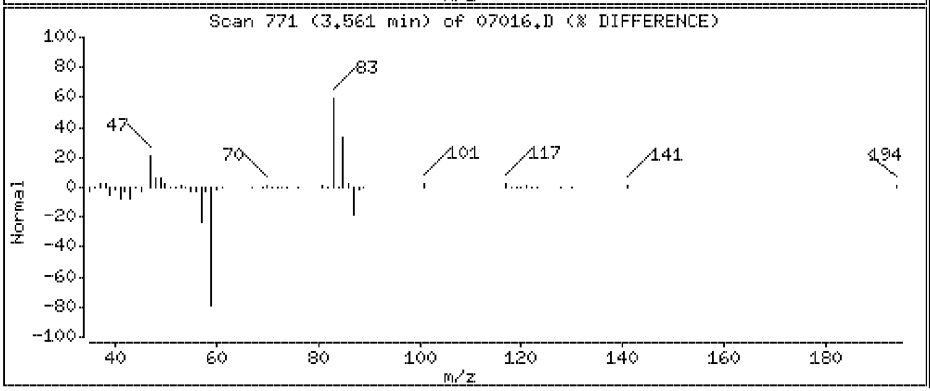












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

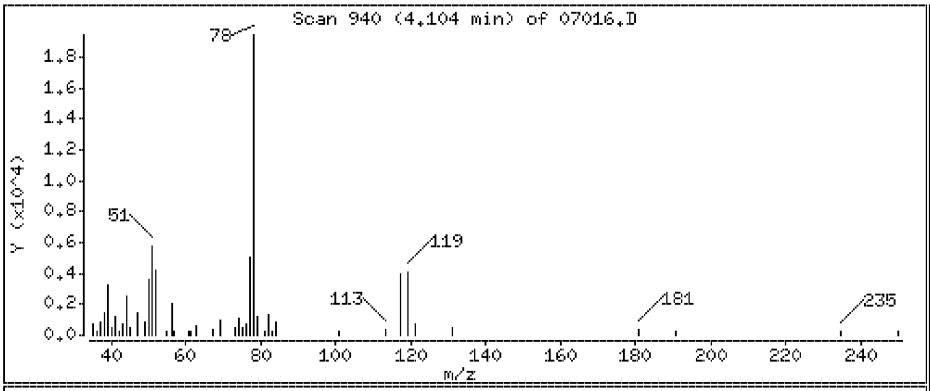
Operator: DR1

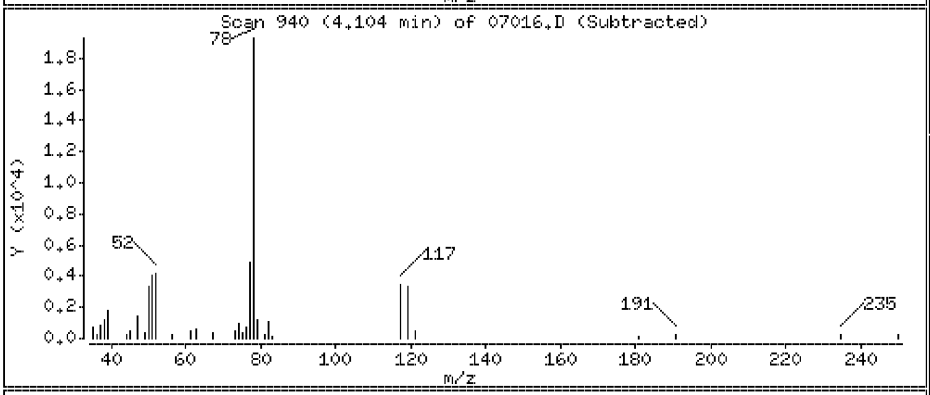
Column phase: J&W DB-5

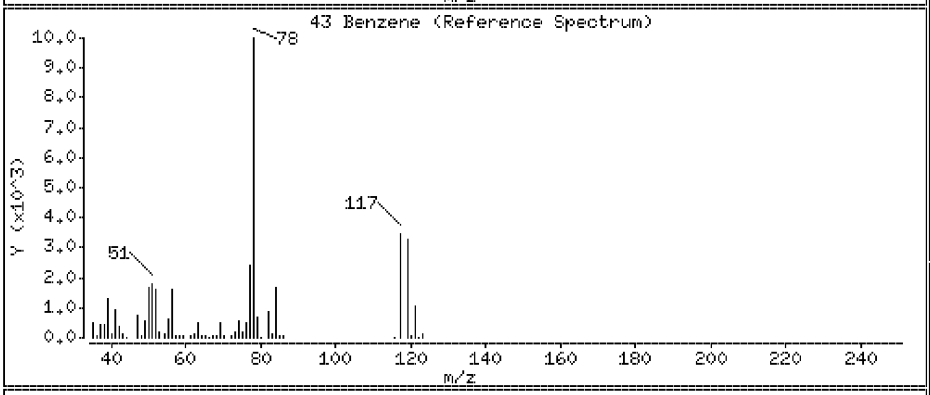
Column diameter: 0.32

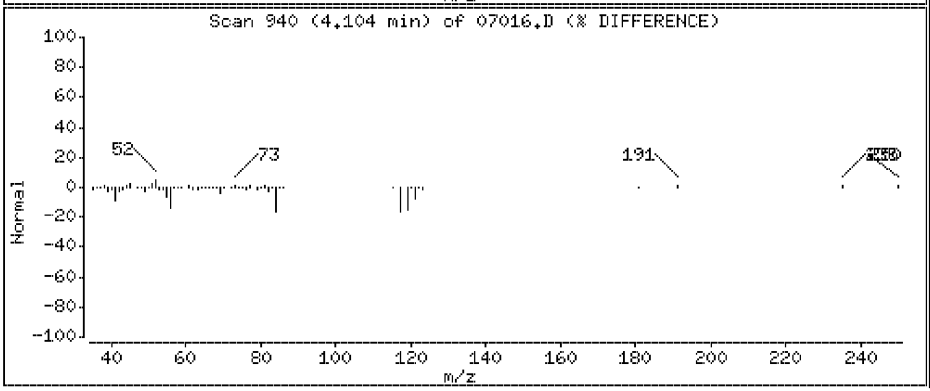
43 Benzene

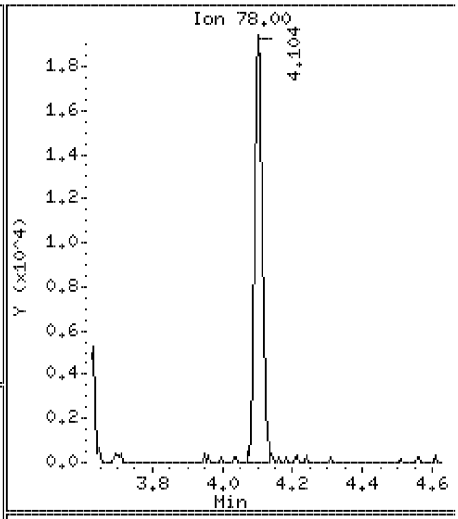
Concentration: 0.853 ppbv

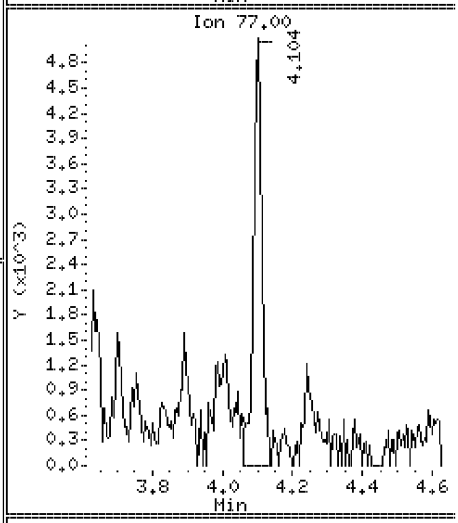


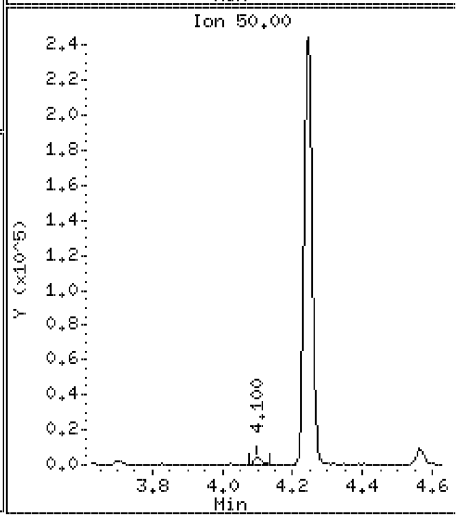












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

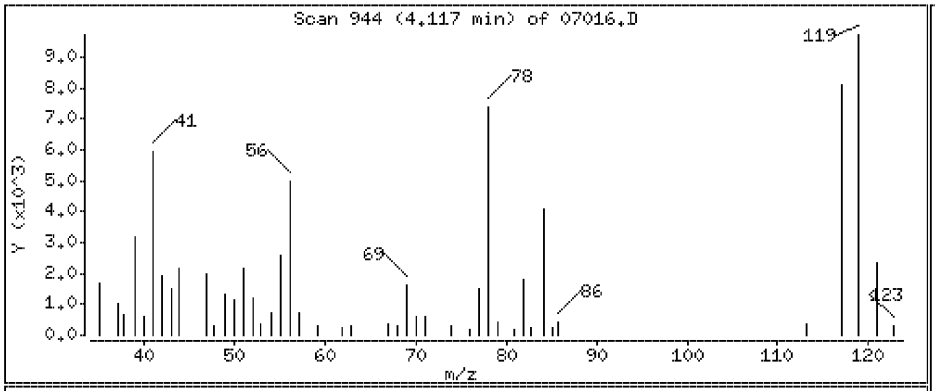
Operator: DR1

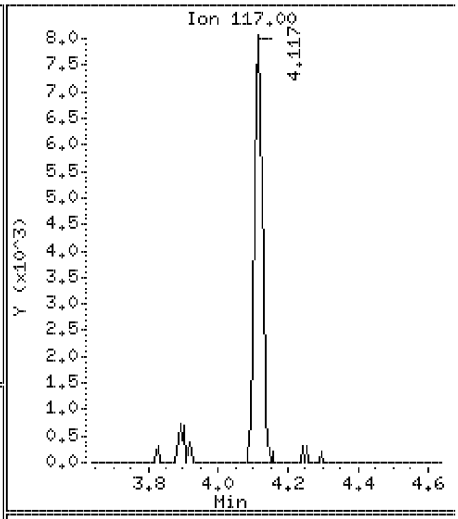
Column phase: J&W DB-5

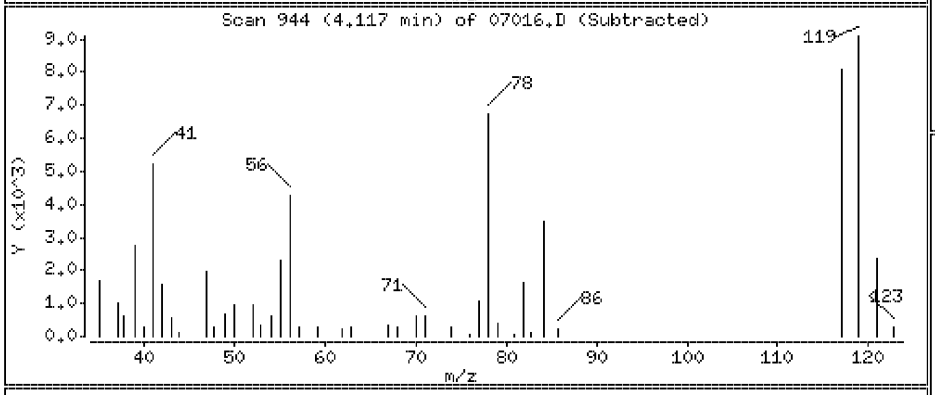
Column diameter: 0.32

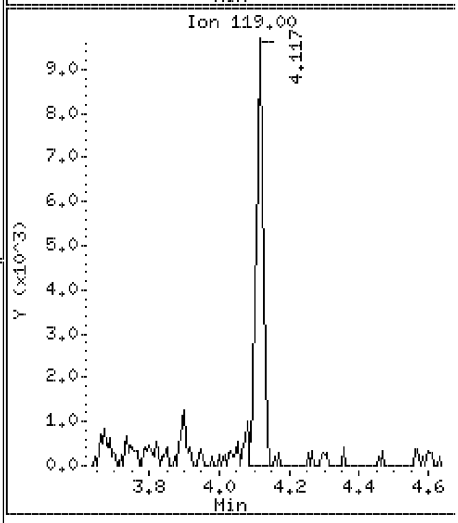
45 Carbon tetrachloride

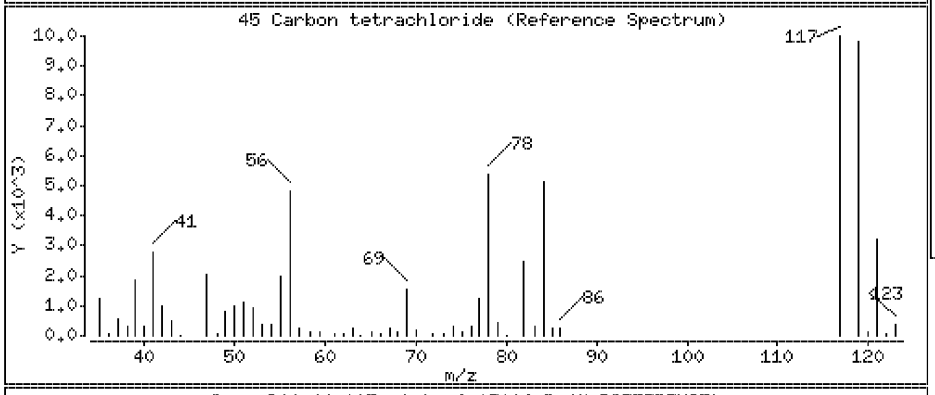
Concentration: 0.491 ppbv

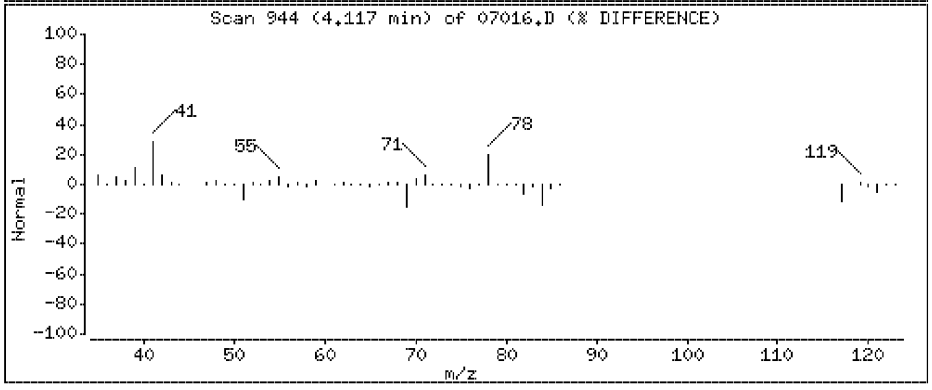












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

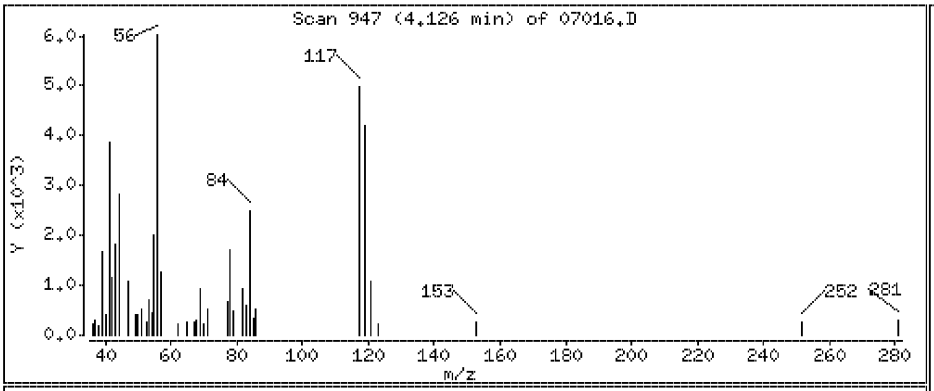
Operator: DR1

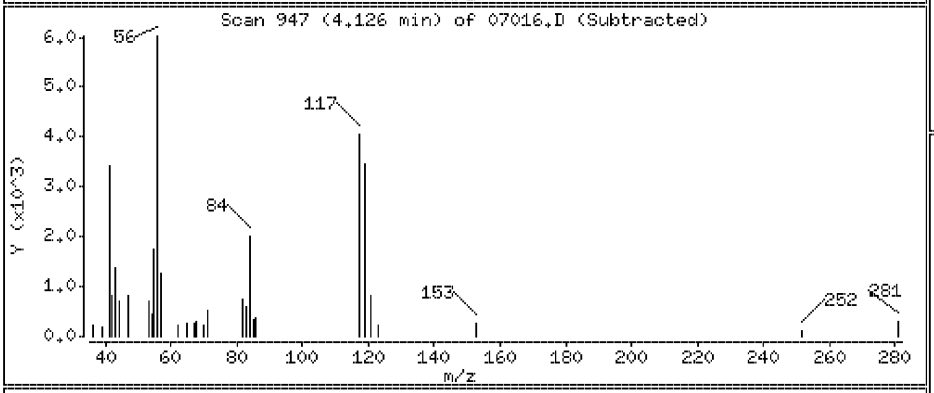
Column phase: J&W DB-5

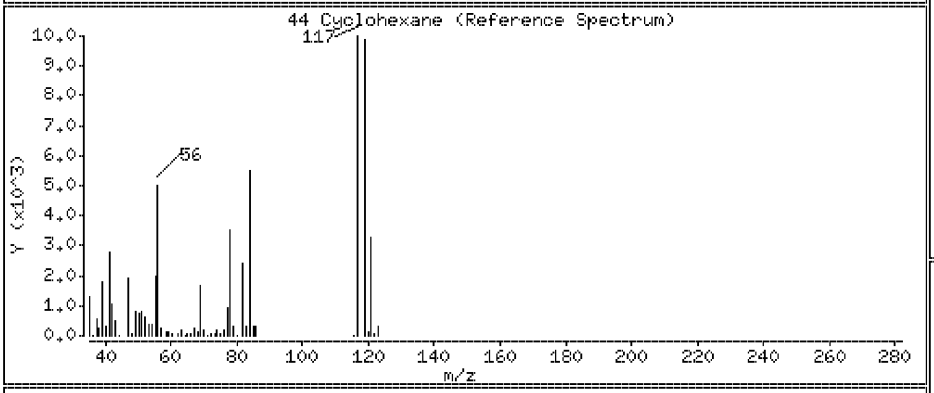
Column diameter: 0.32

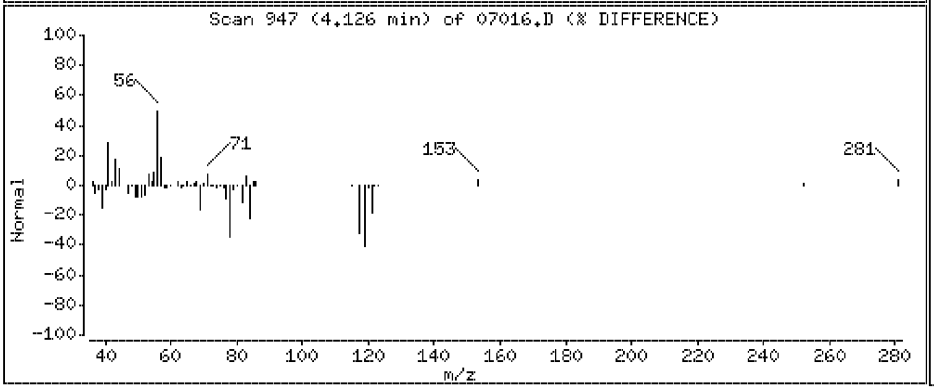
44 Cyclohexane

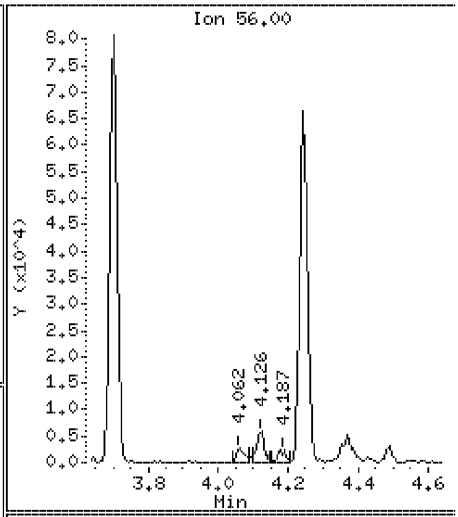
Concentration: 0.507 ppbv

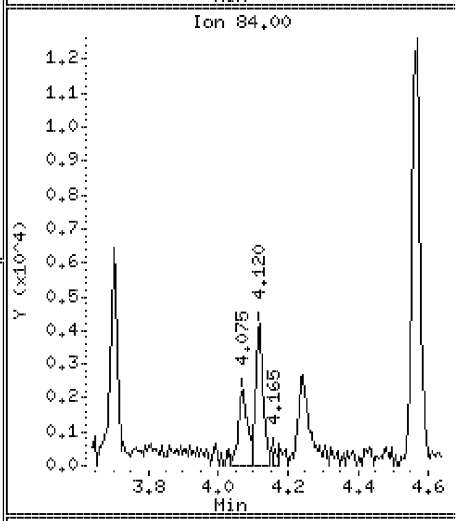


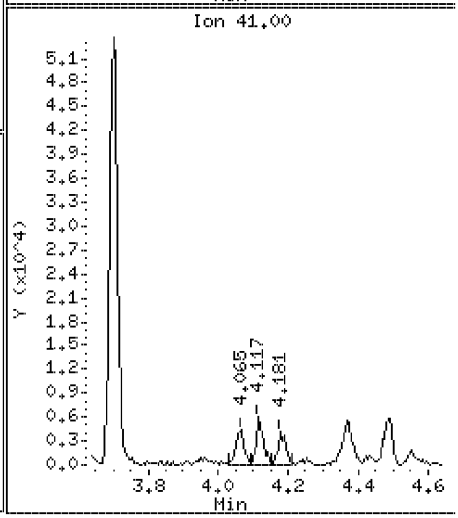












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

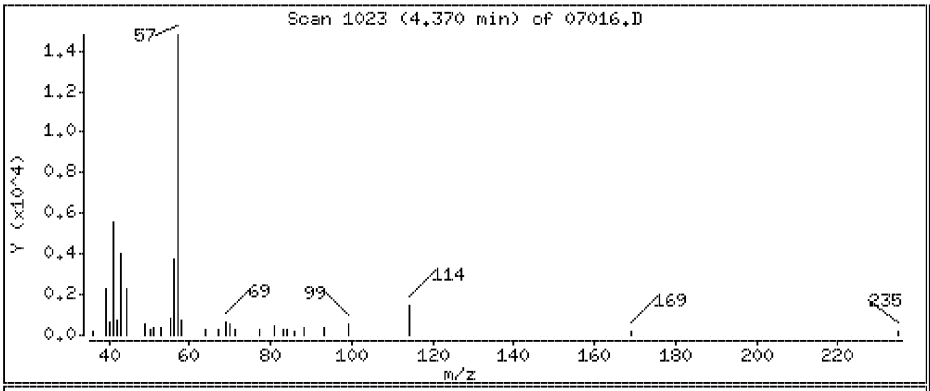
Operator: DR1

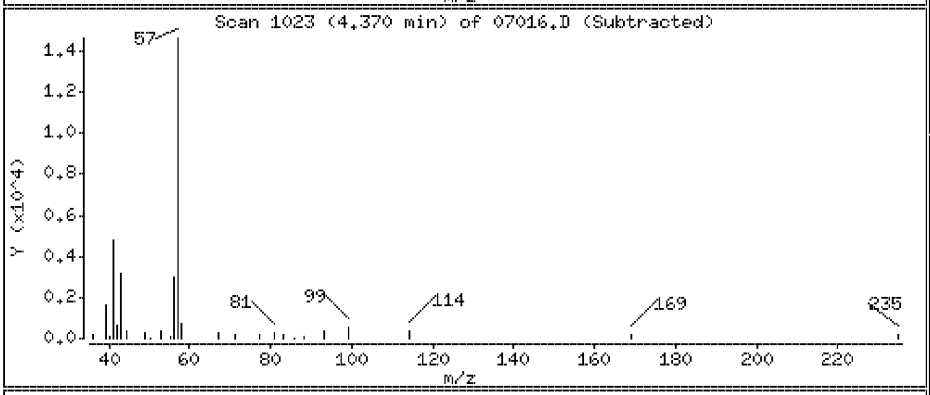
Column phase: J&W DB-5

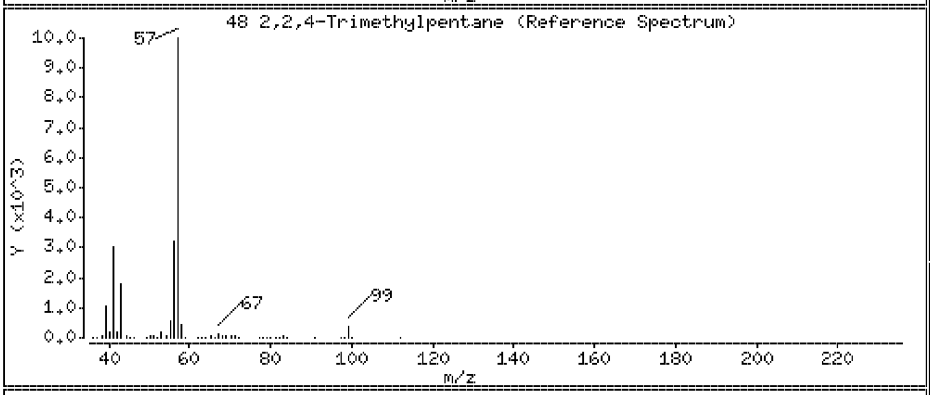
Column diameter: 0.32

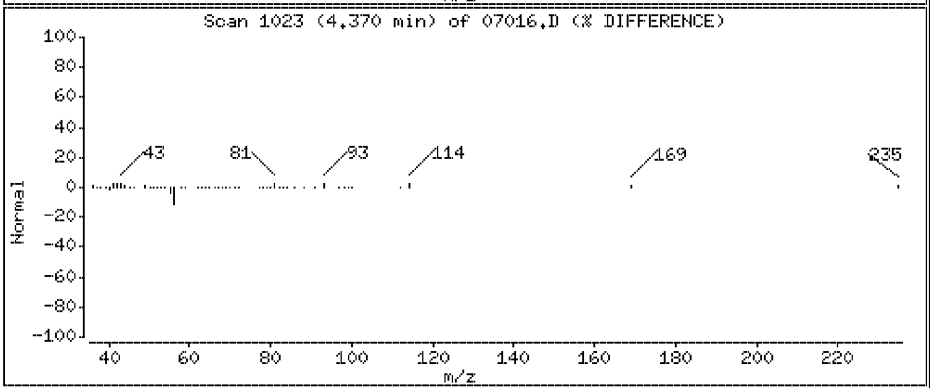
48 2,2,4-Trimethylpentane

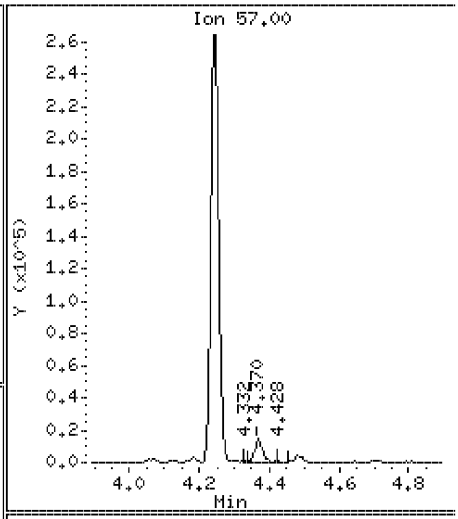
Concentration: 336 ppbv

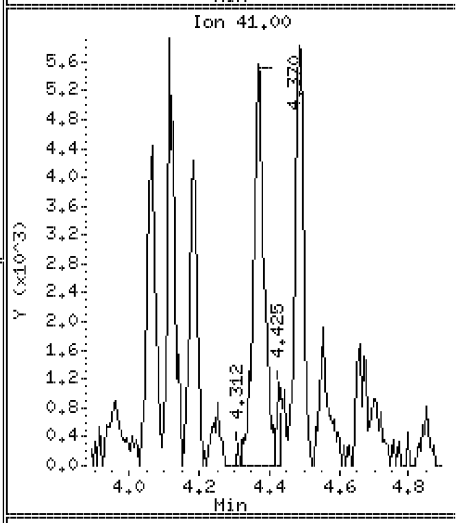


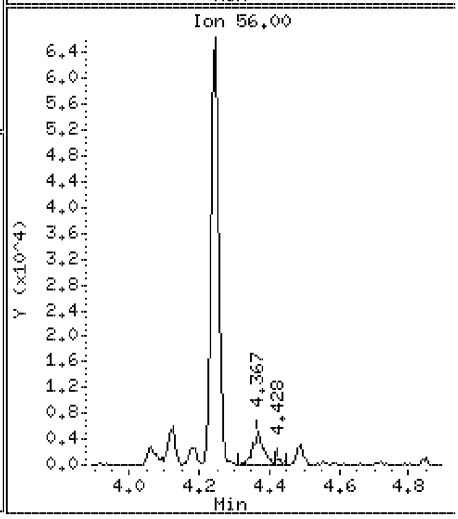












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

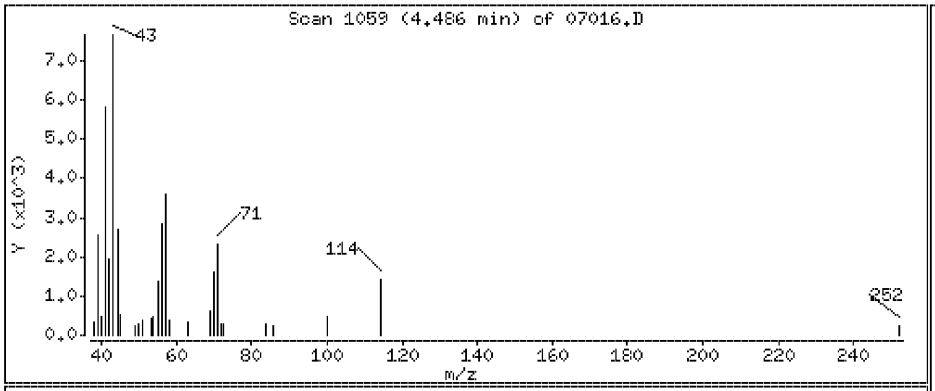
Operator: DR1

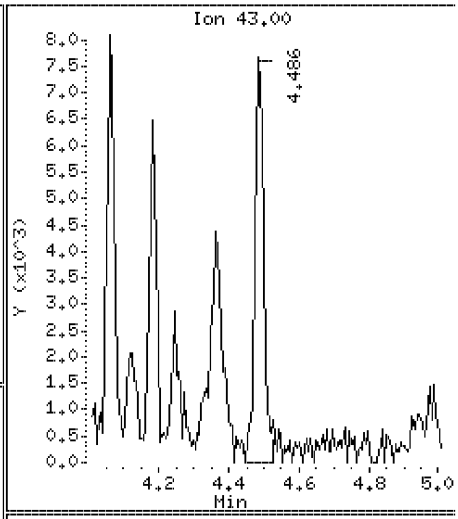
Column phase: J&W DB-5

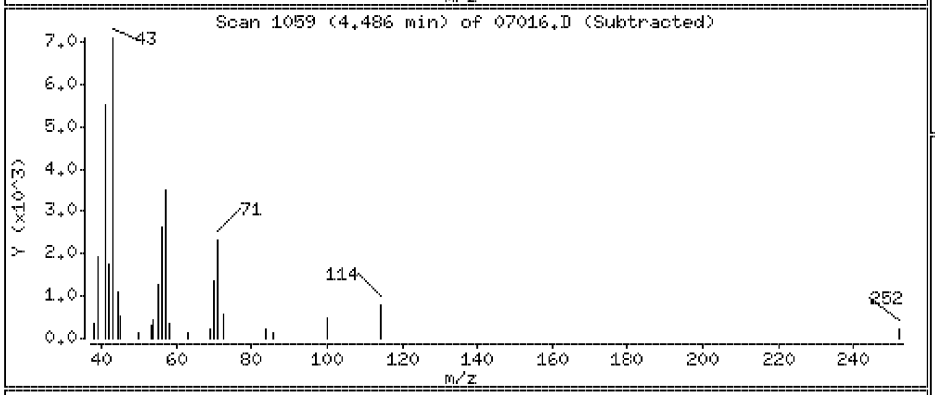
Column diameter: 0.32

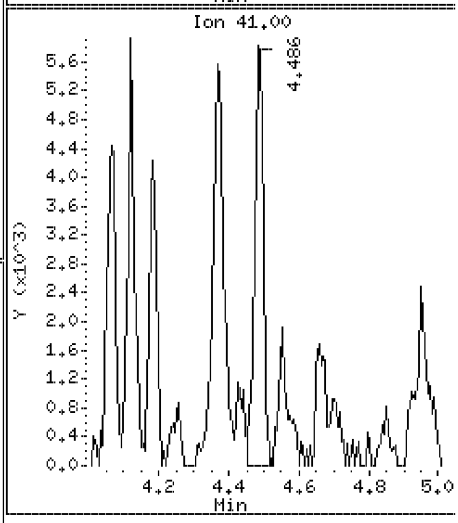
49 Heptane

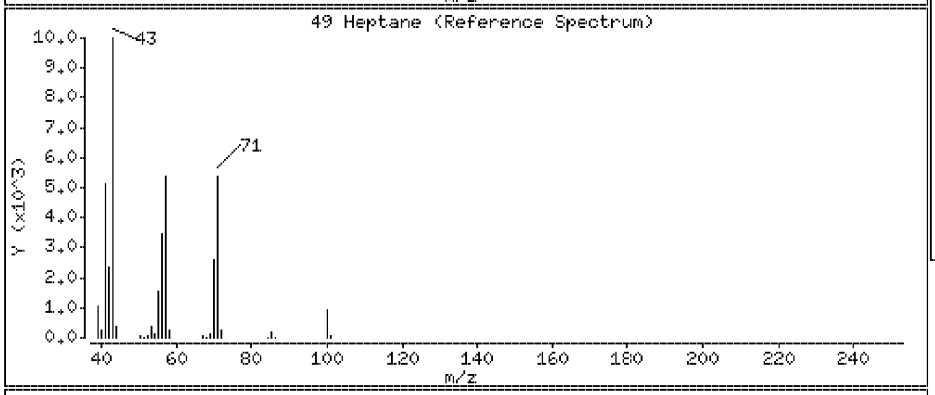
Concentration: 0.508 ppbv

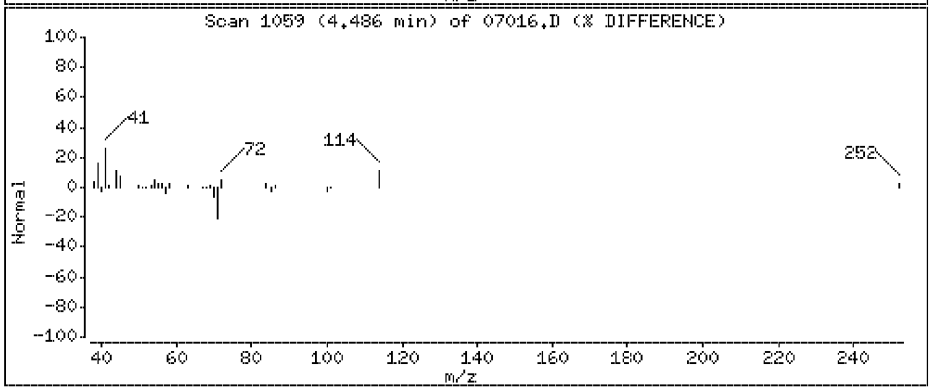












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

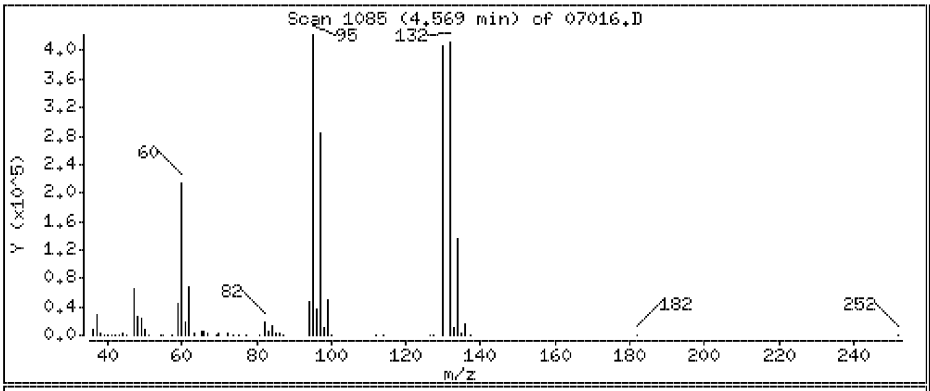
Operator: DR1

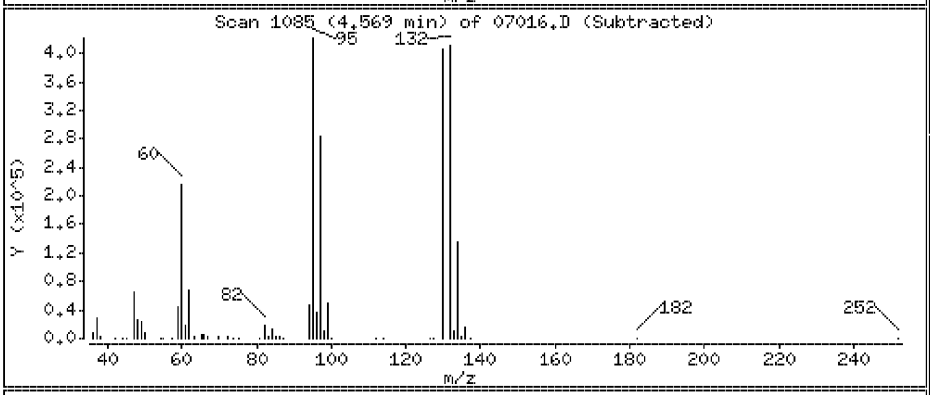
Column phase: J&W DB-5

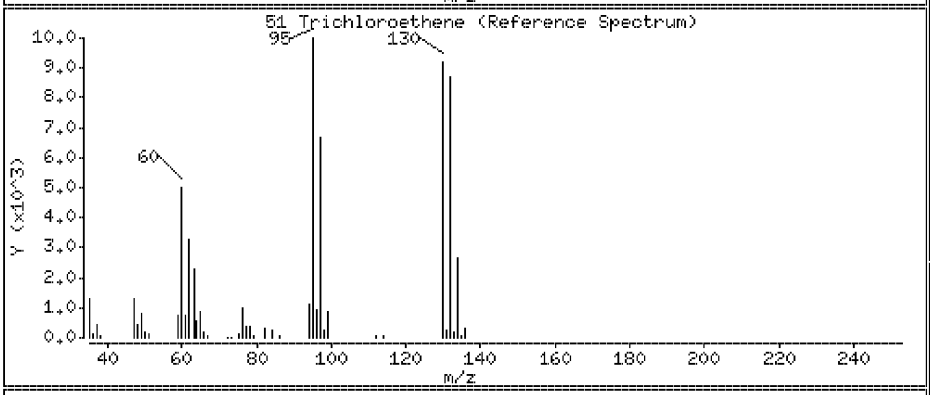
Column diameter: 0.32

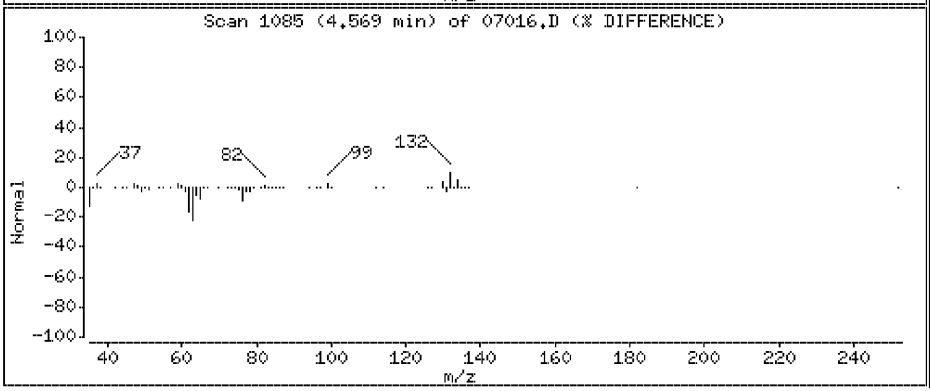
51 Trichloroethene

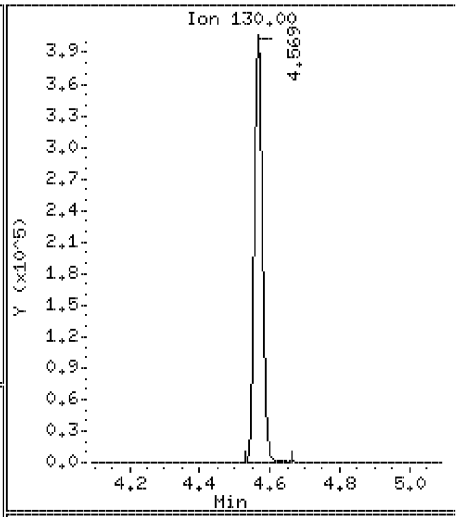
Concentration: 35.5 ppbv

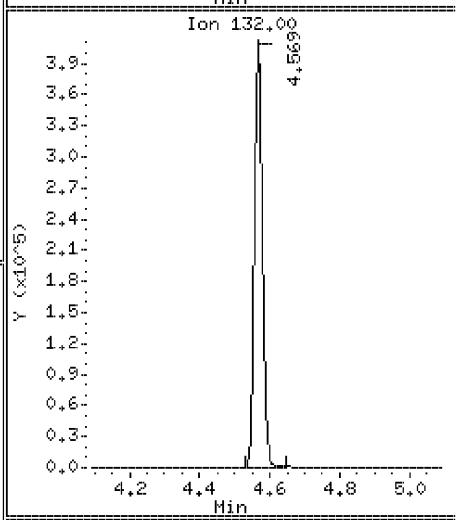


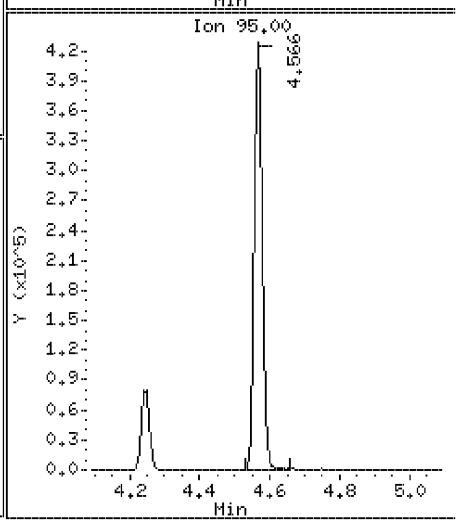












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

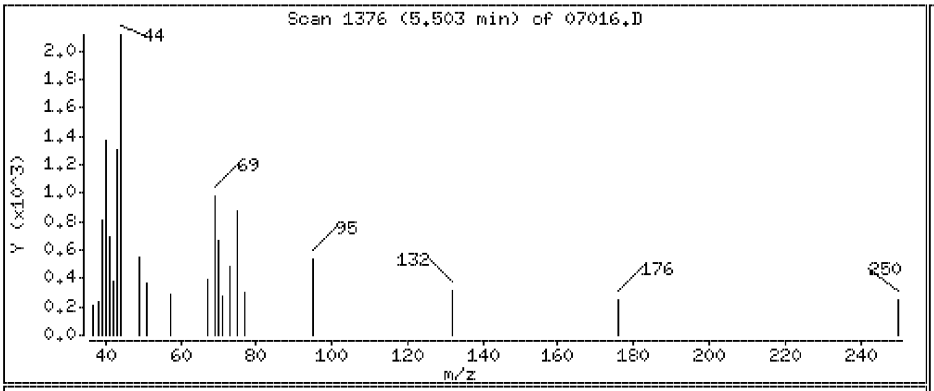
Operator: DR1

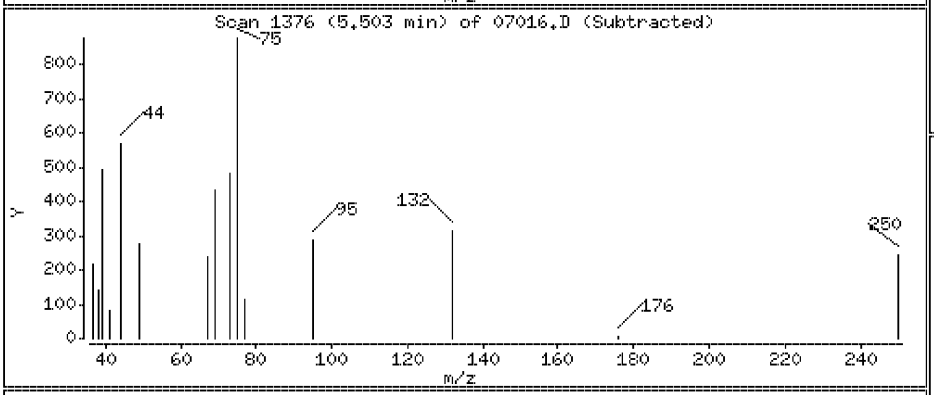
Column phase: J&W DB-5

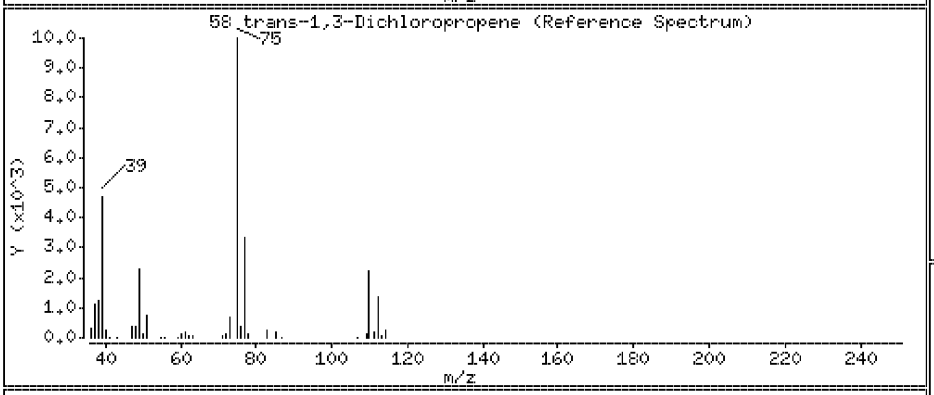
Column diameter: 0.32

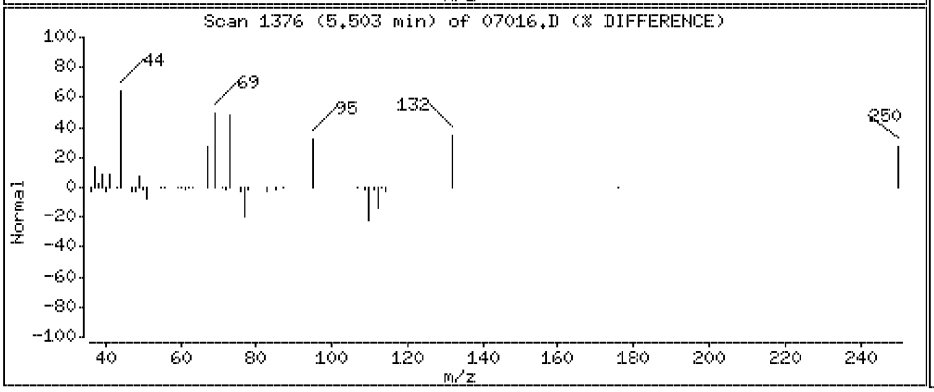
58 trans-1,3-Dichloropropene

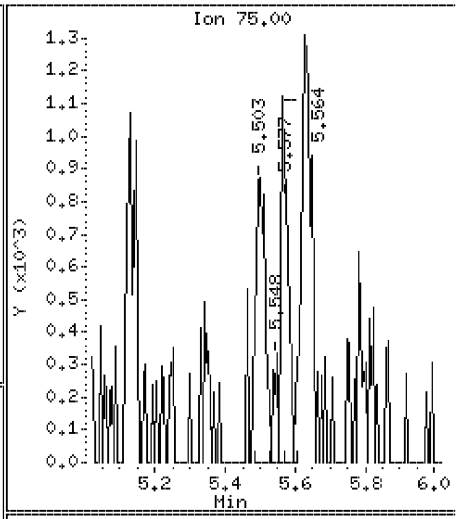
Concentration: 0.228 ppbv

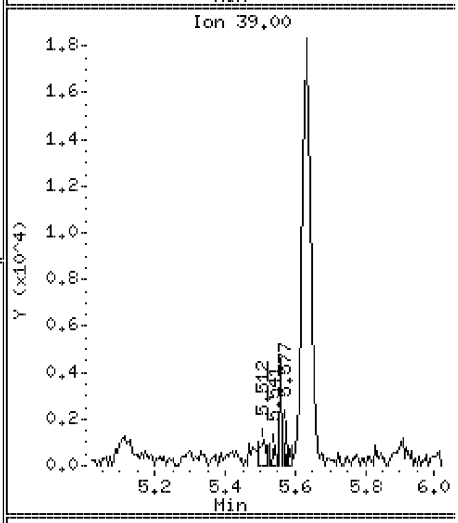


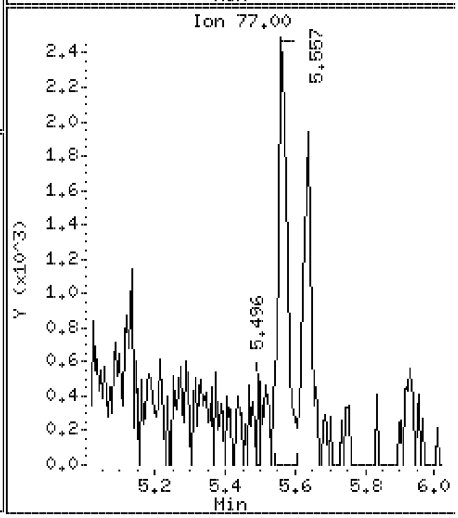












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

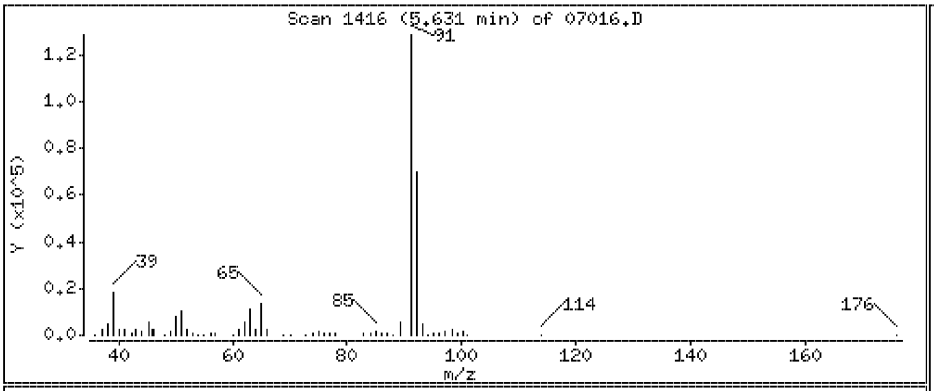
Operator: DR1

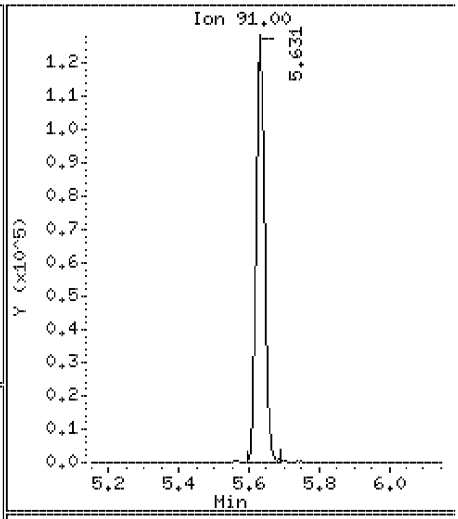
Column phase: J&W DB-5

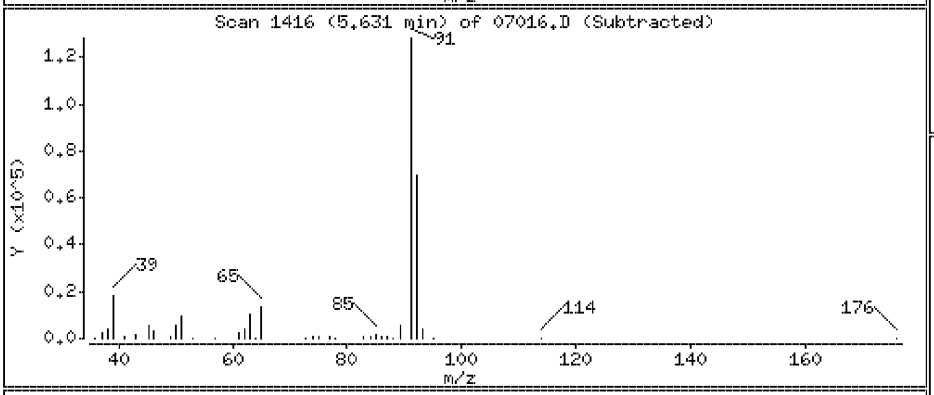
Column diameter: 0.32

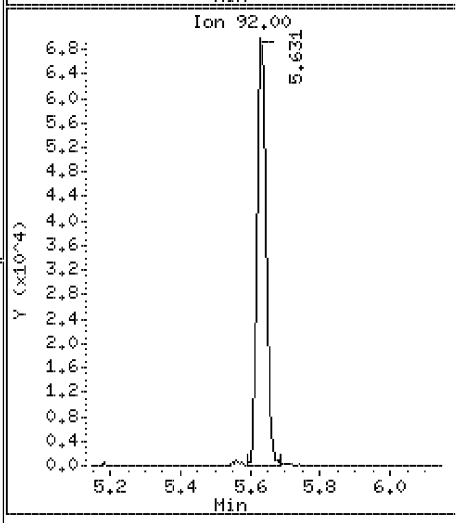
60 Toluene

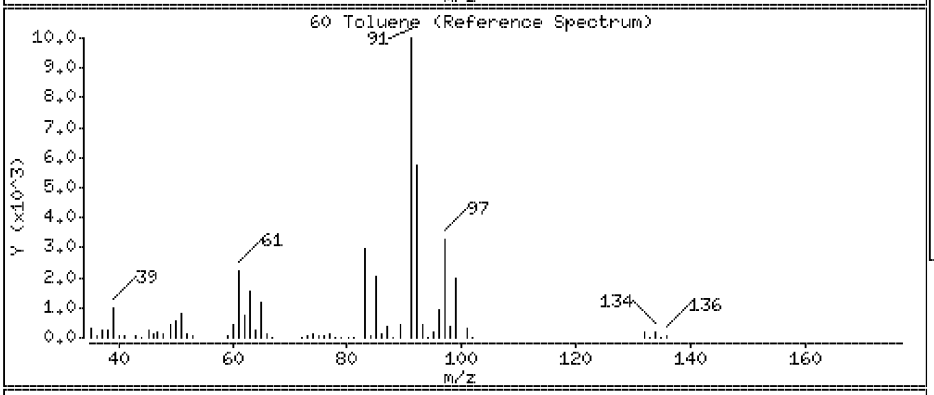
Concentration: 4.80 ppbv

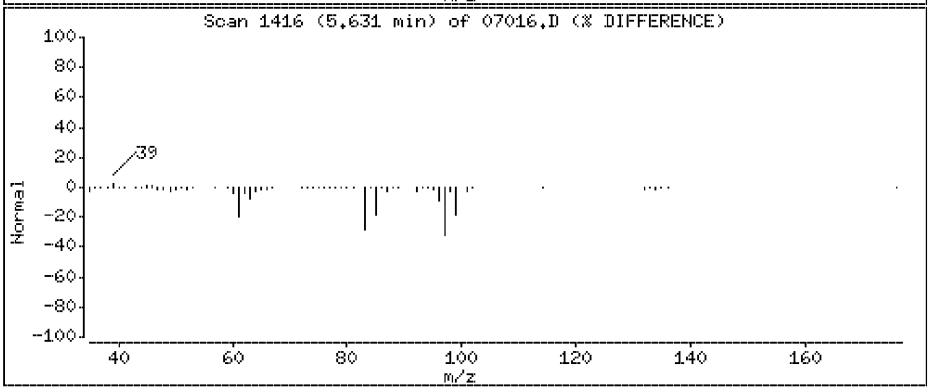












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

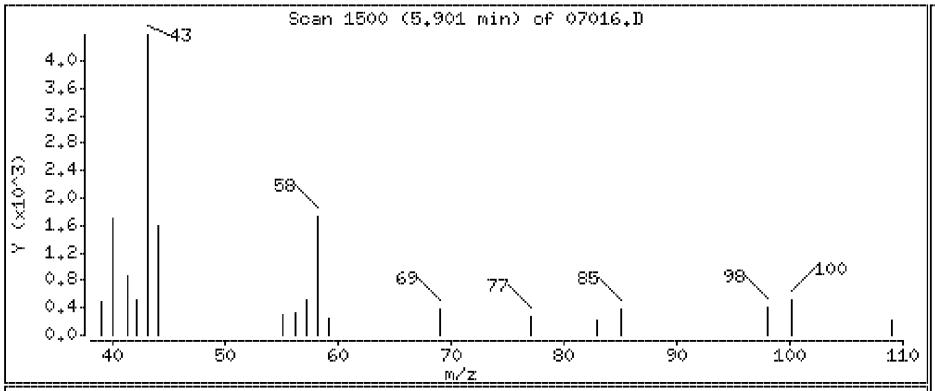
Operator: DR1

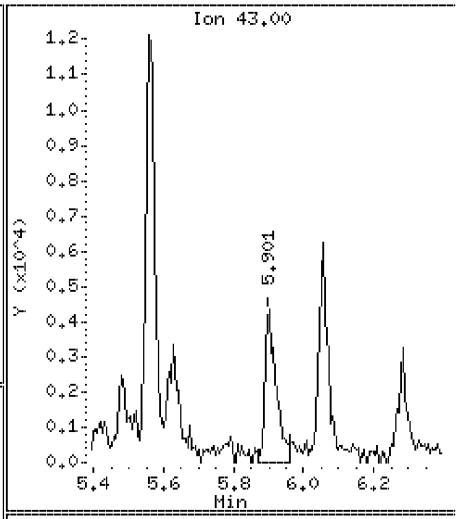
Column phase: J&W DB-5

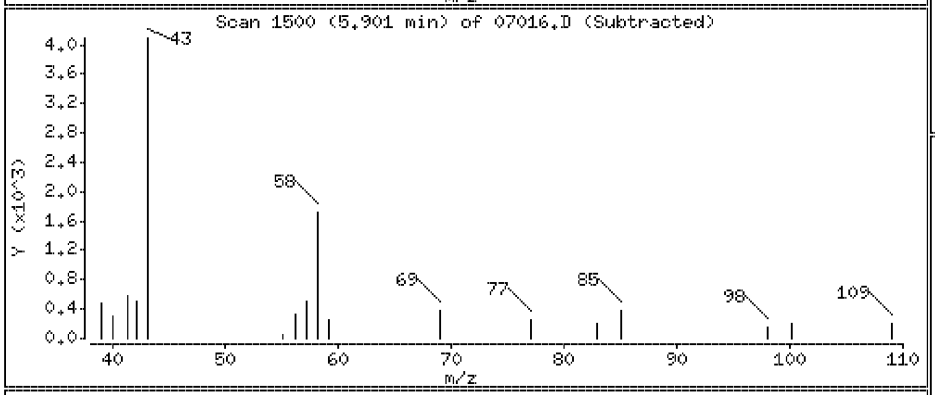
Column diameter: 0.32

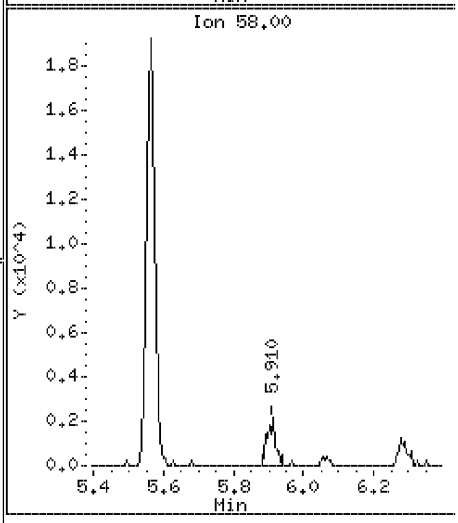
62 Methyl Butyl Ketone

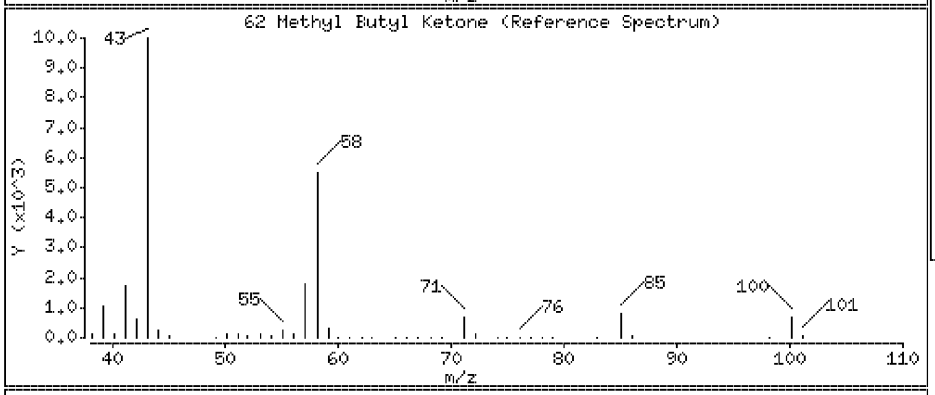
Concentration: 0.367 ppbv

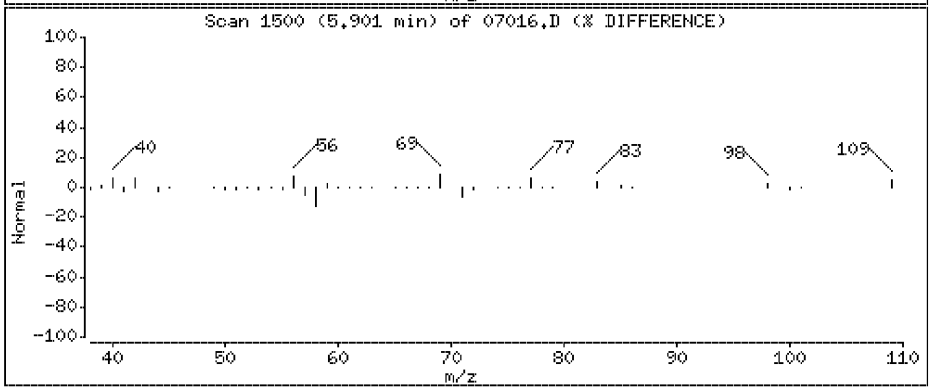












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

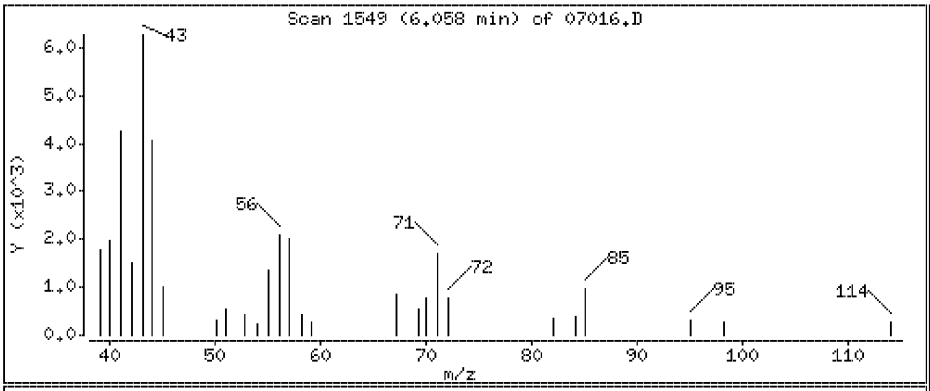
Operator: DR1

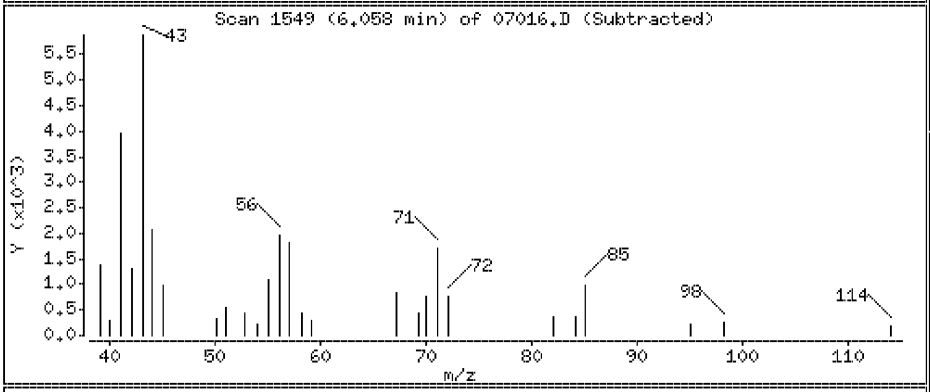
Column phase: J&W DB-5

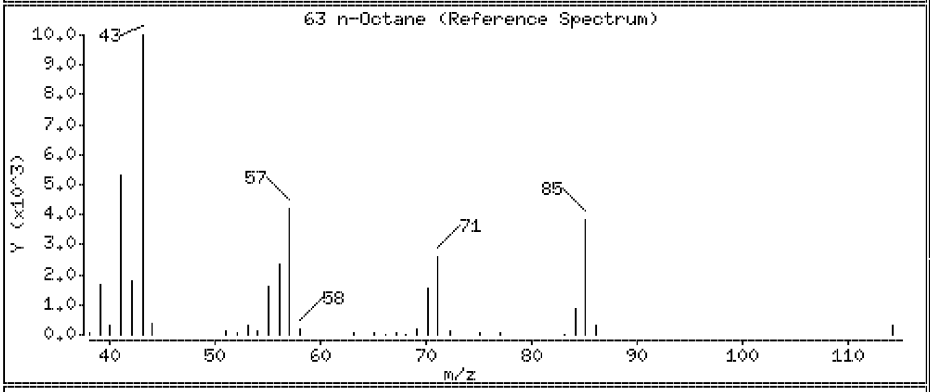
Column diameter: 0.32

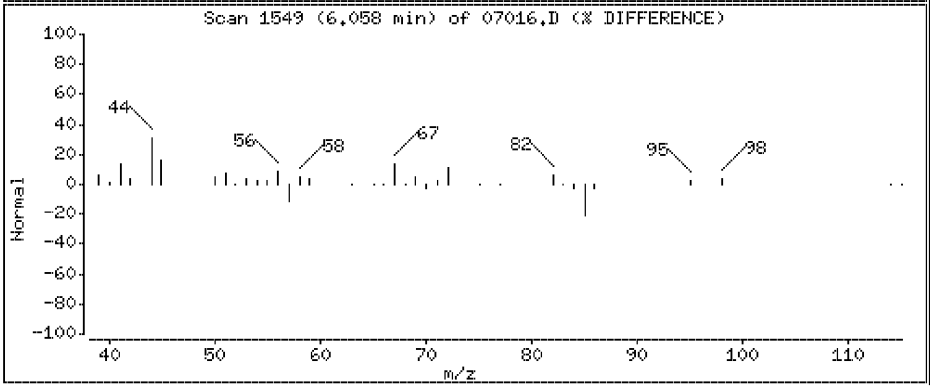
63 n-Octane

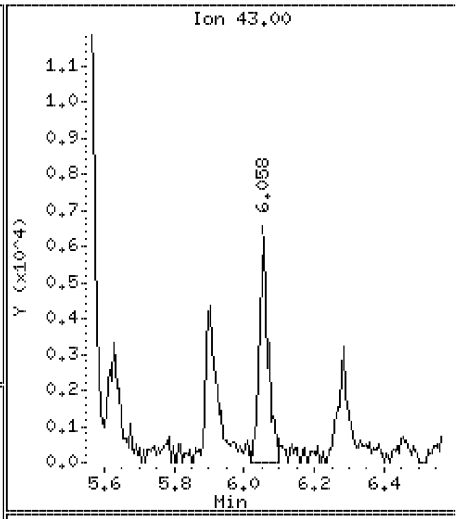
Concentration: 0.410 ppbv

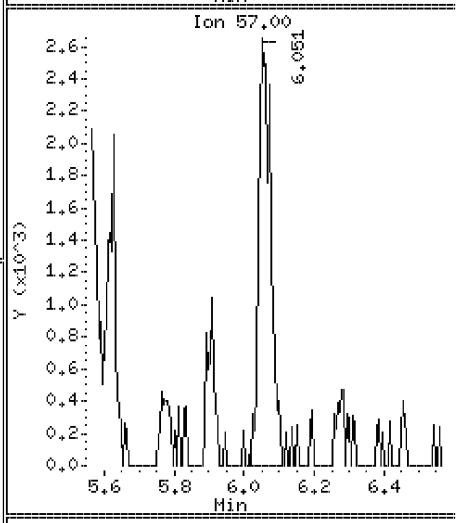


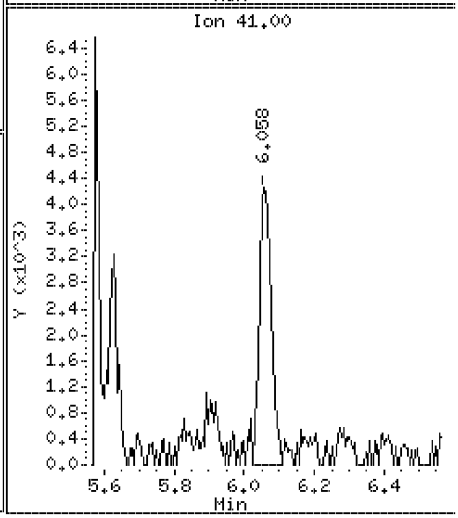












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

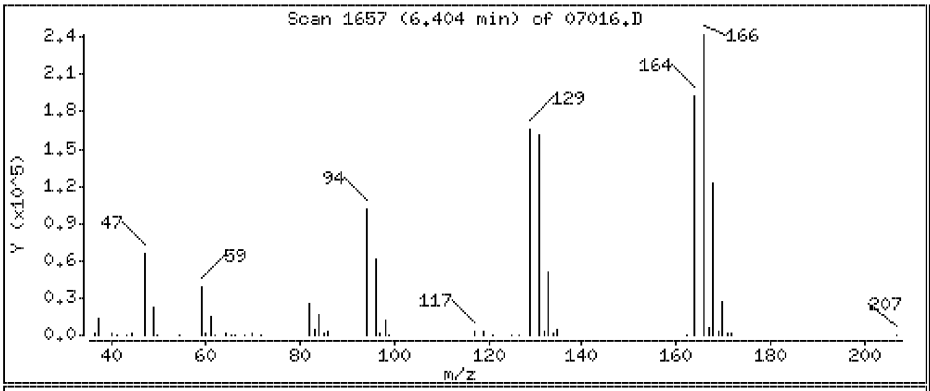
Operator: DR1

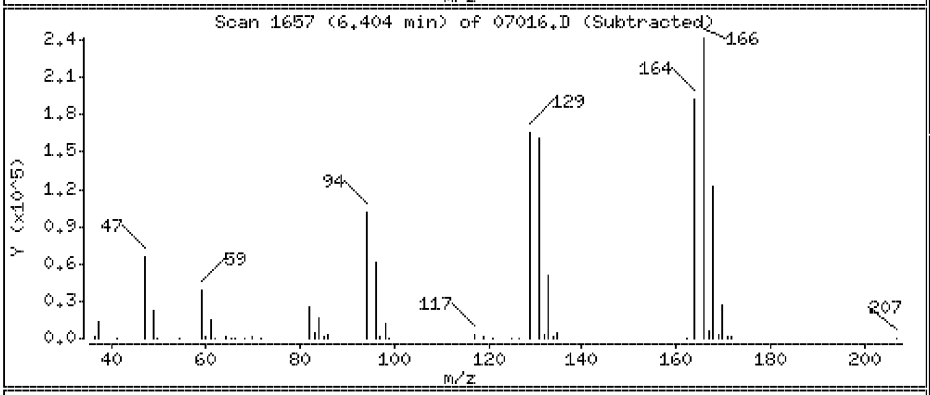
Column phase: J&W DB-5

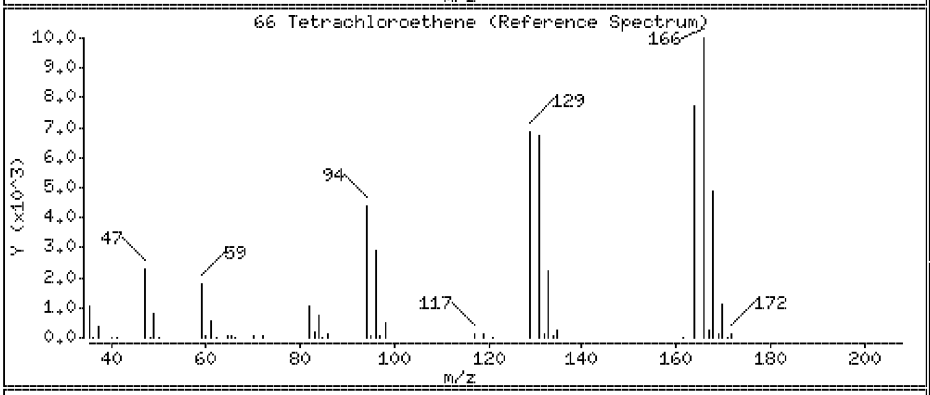
Column diameter: 0.32

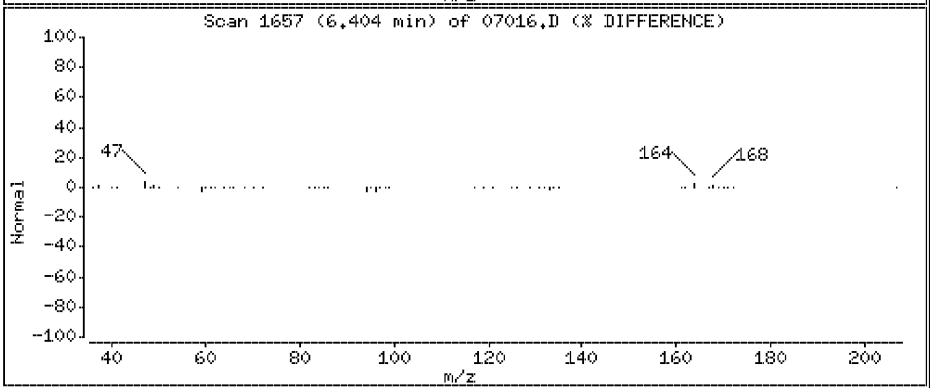
66 Tetrachloroethene

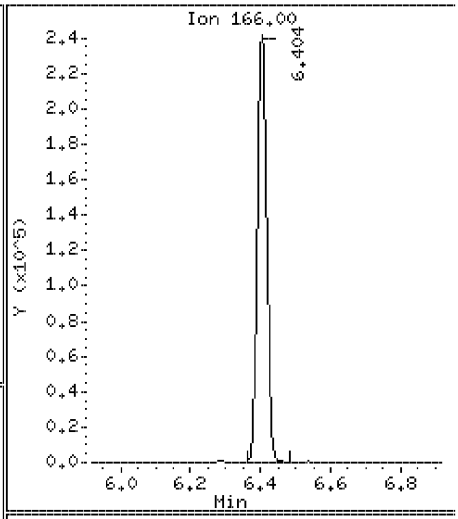
Concentration: 18.3 ppbv

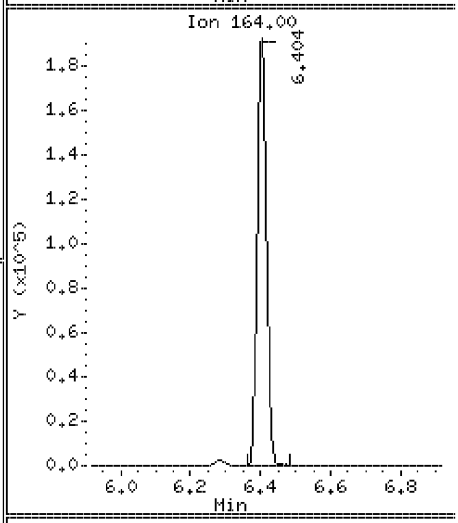


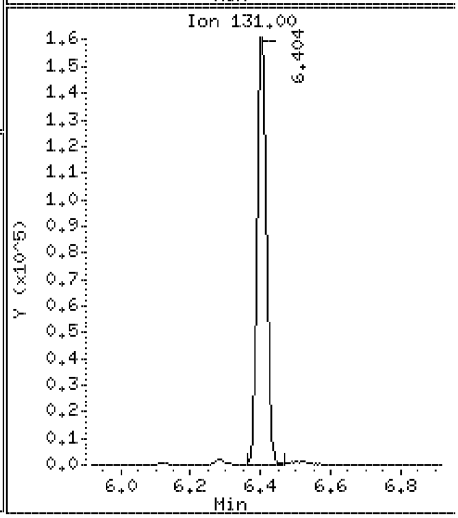












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

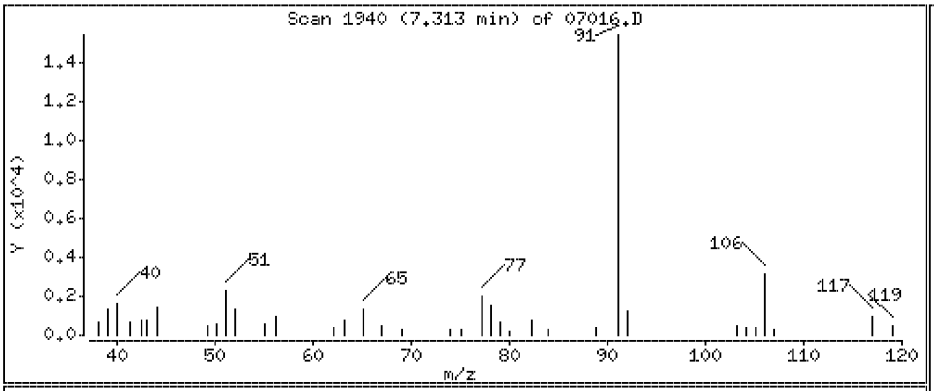
Operator: DR1

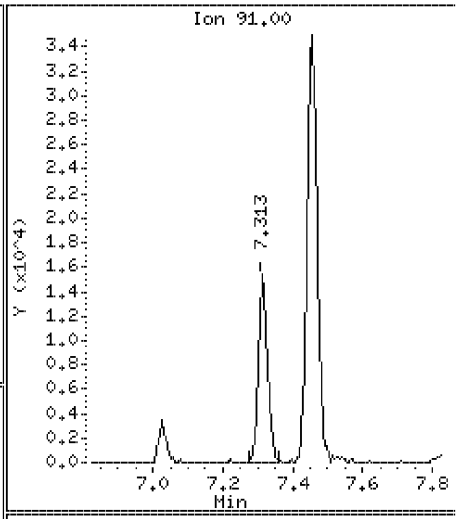
Column phase: J&W DB-5

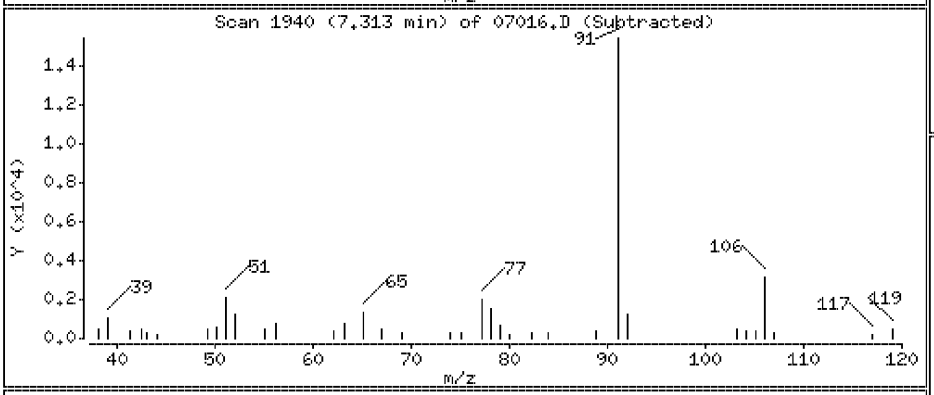
Column diameter: 0.32

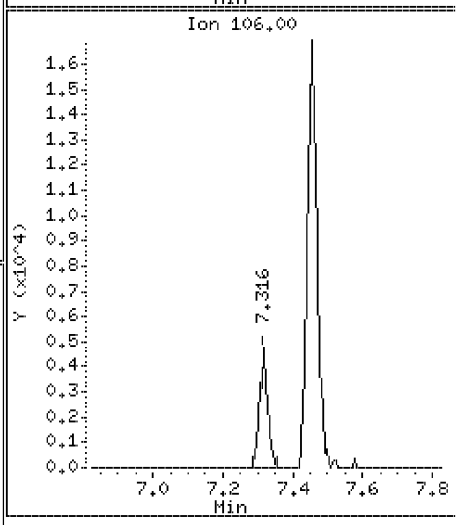
69 Ethyl Benzene

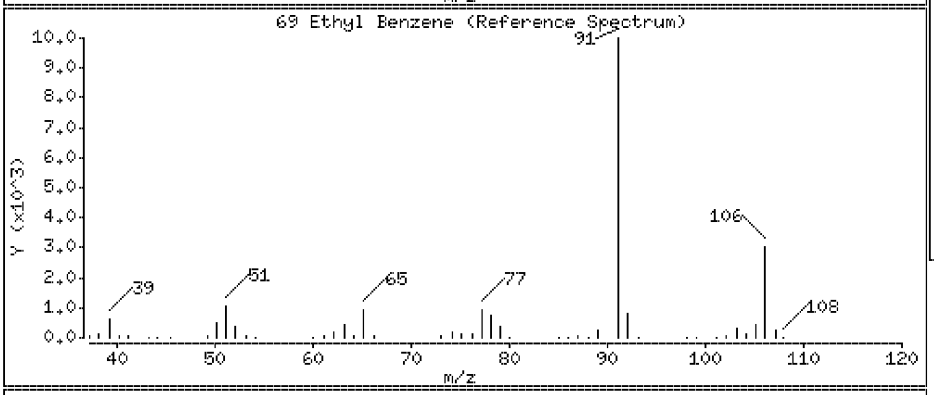
Concentration: 0.582 ppbv

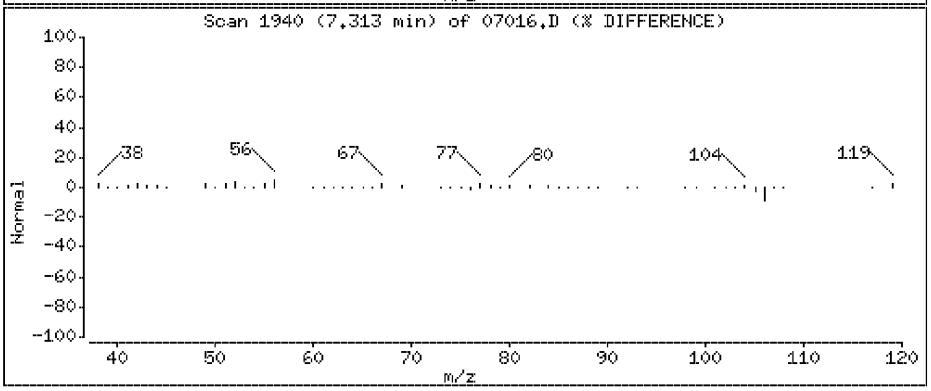












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

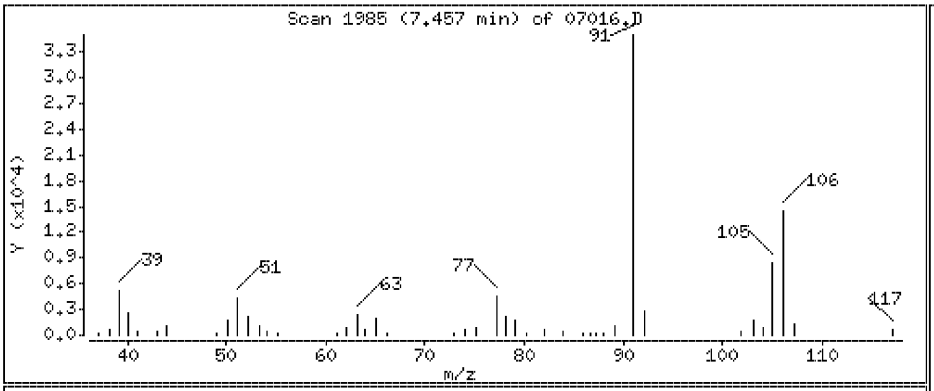
Operator: DR1

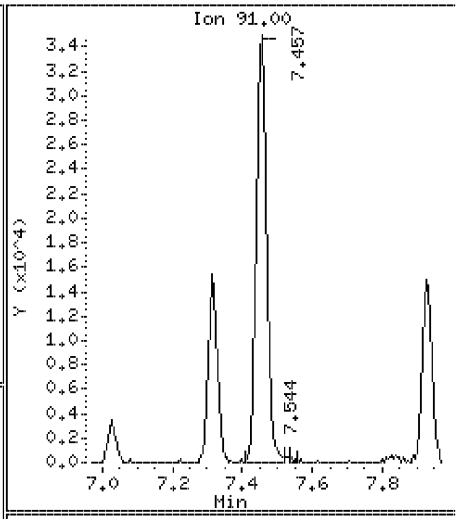
Column phase: J&W DB-5

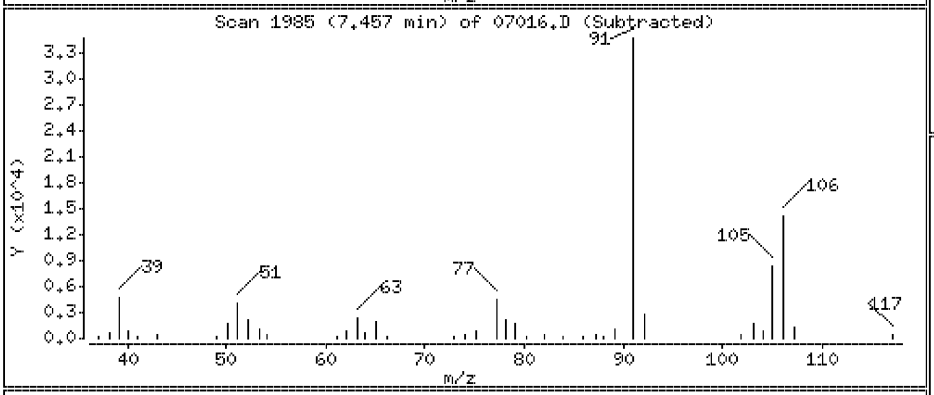
Column diameter: 0.32

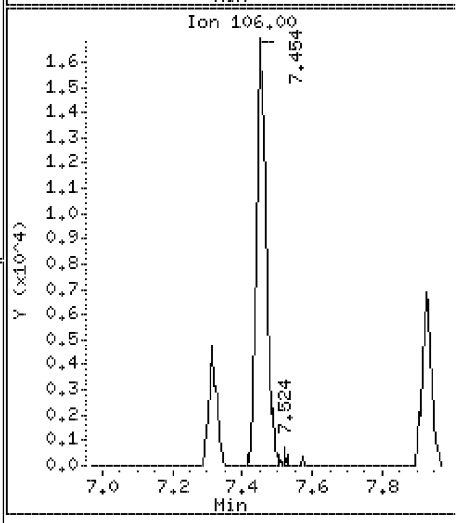
70 m&p-Xylene

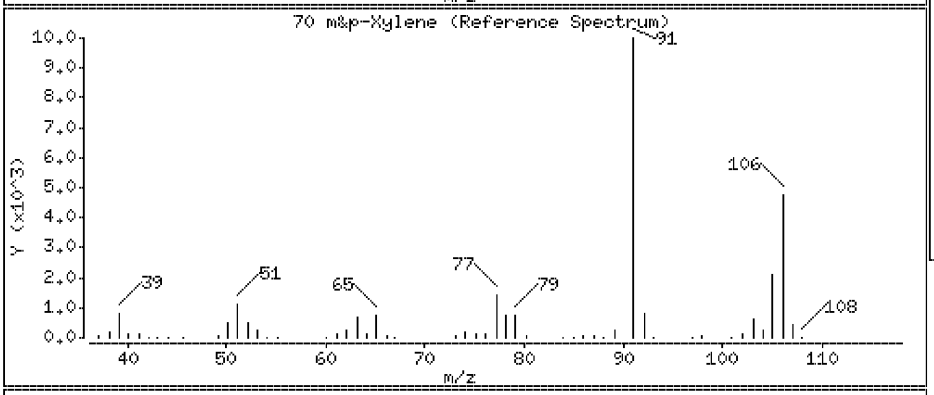
Concentration: 1.68 ppbv

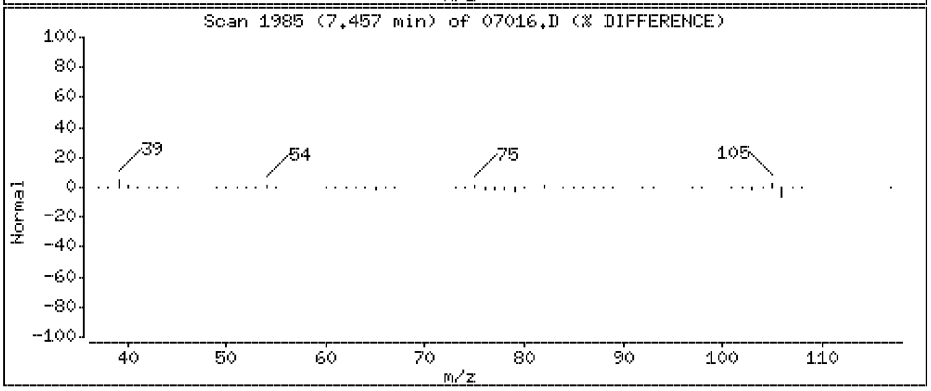












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

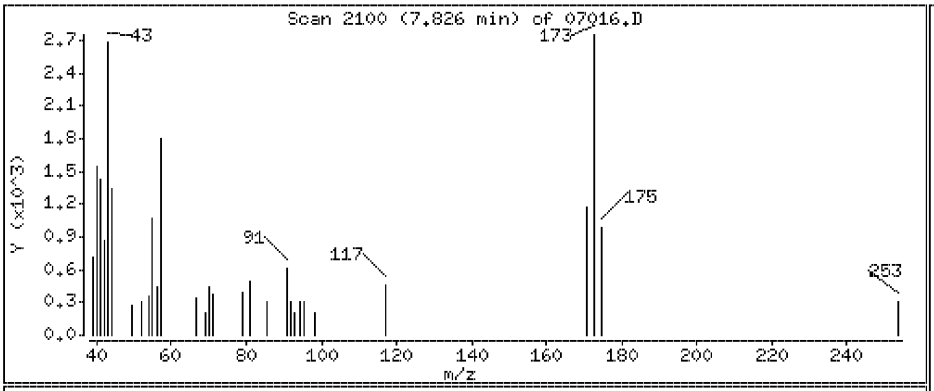
Operator: DR1

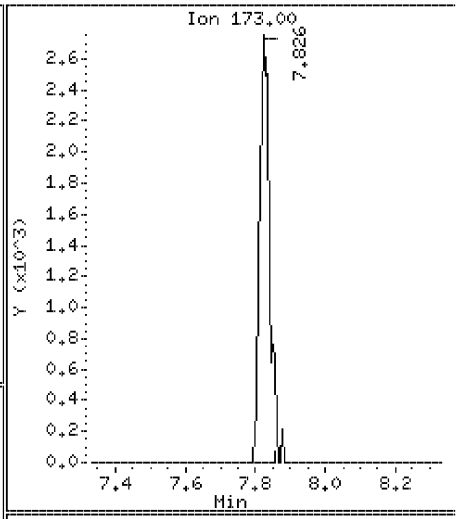
Column phase: J&W DB-5

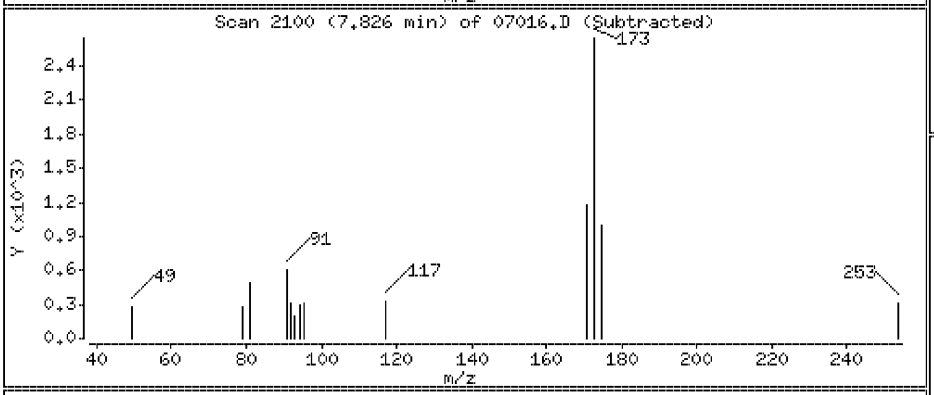
Column diameter: 0.32

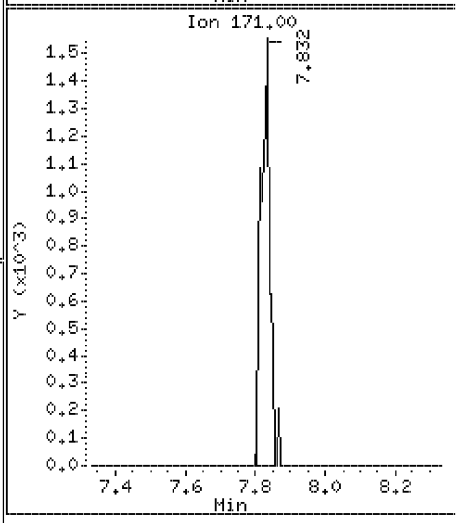
71 Bromoform

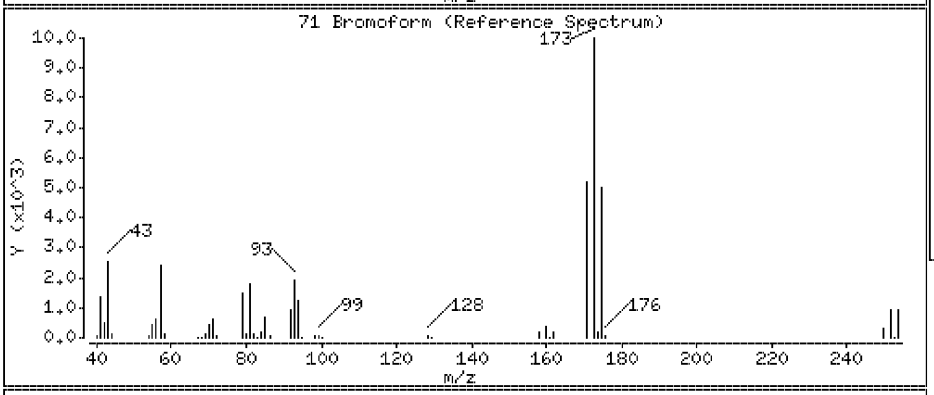
Concentration: 0.579 ppbv

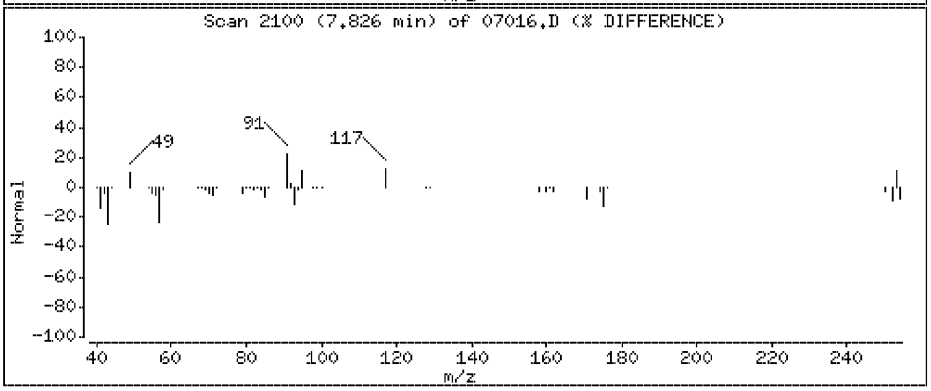












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

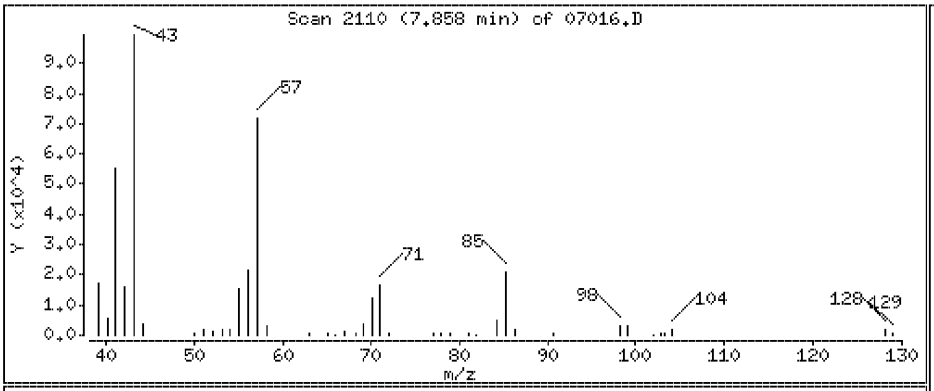
Operator: DR1

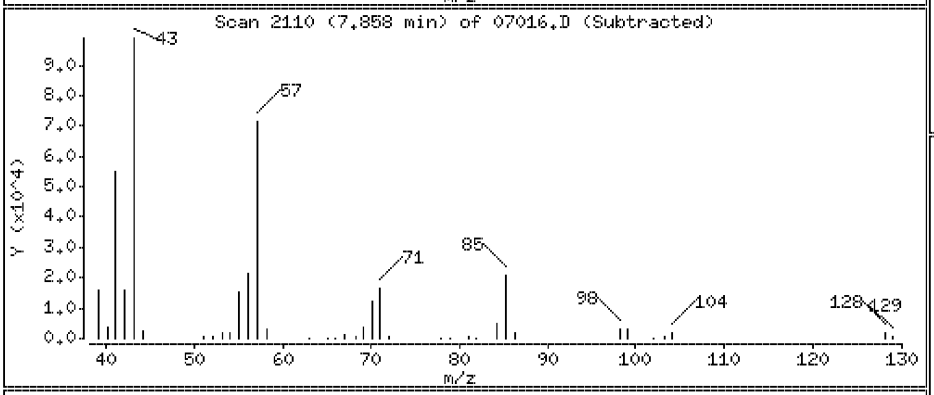
Column phase: J&W DB-5

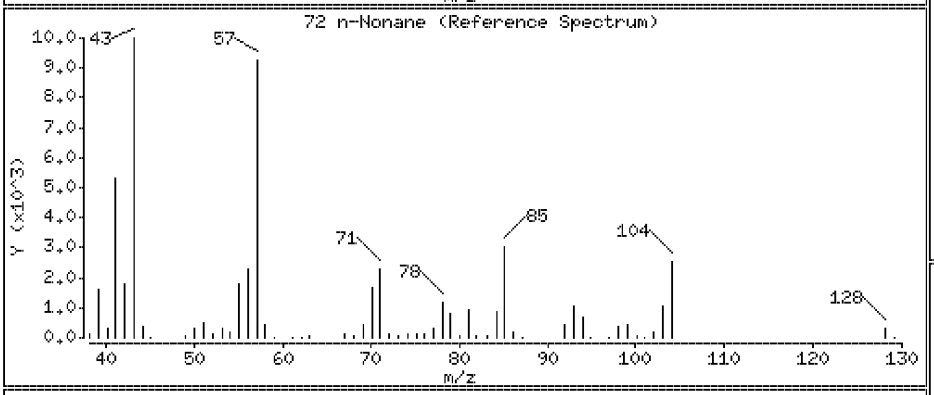
Column diameter: 0.32

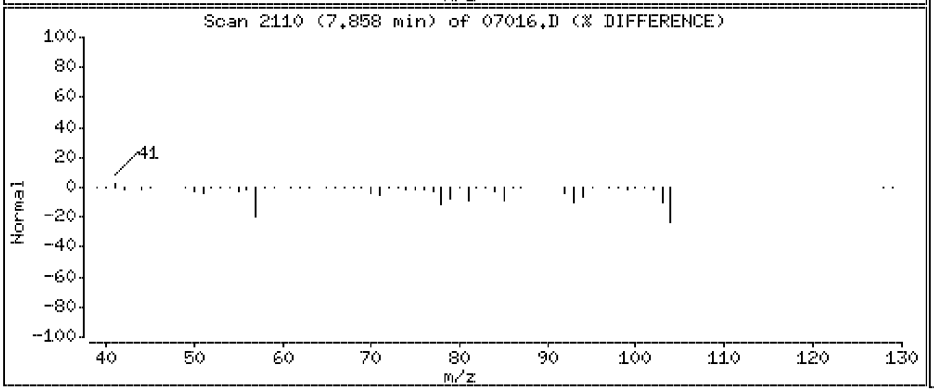
72 n-Nonane

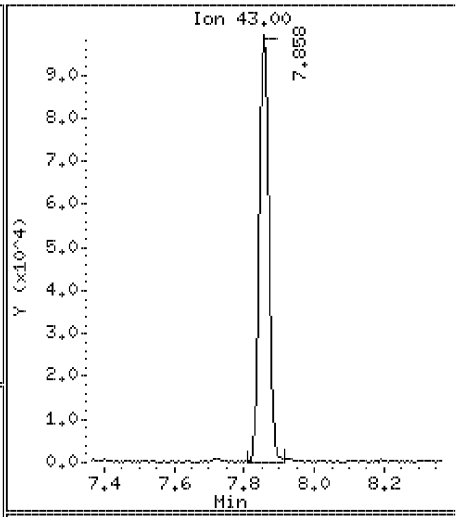
Concentration: 7.46 ppbv

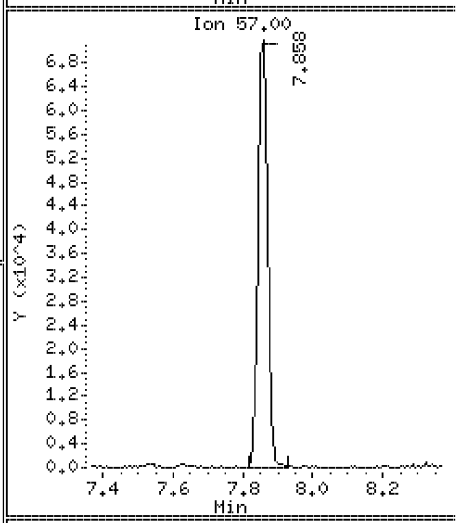


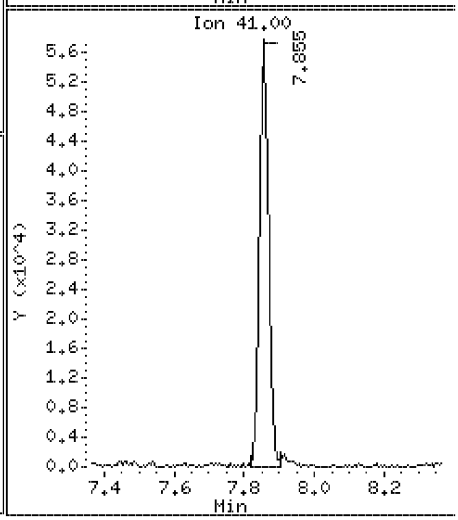












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

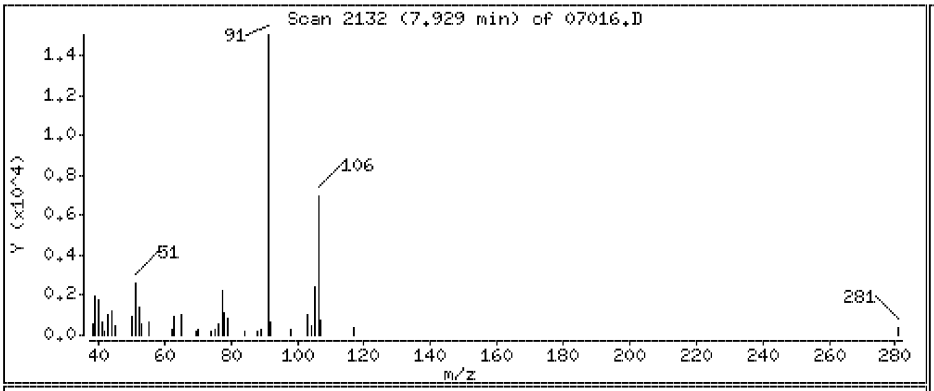
Operator: DR1

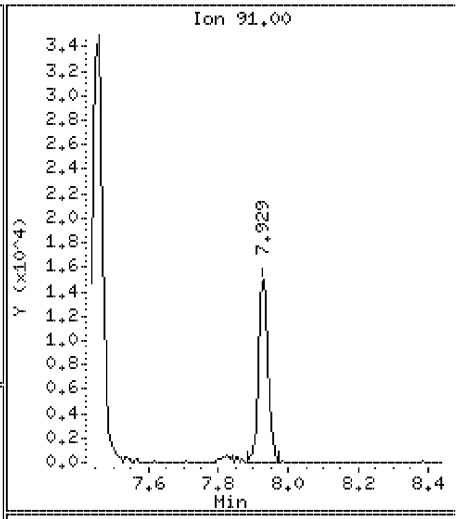
Column phase: J&W DB-5

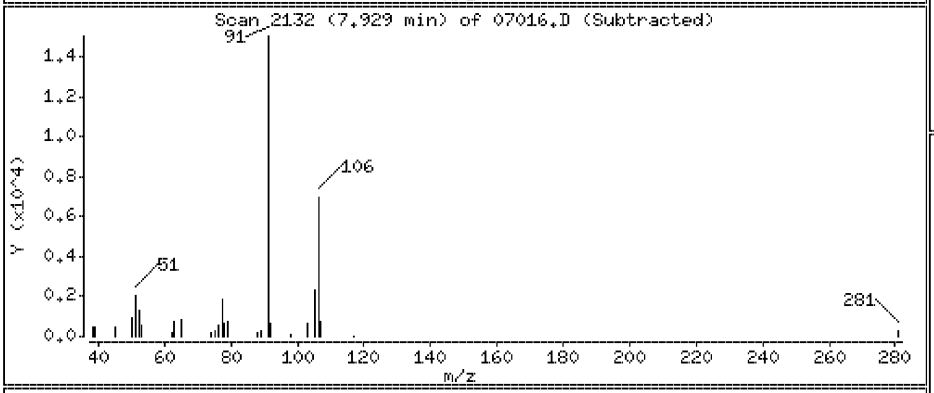
Column diameter: 0.32

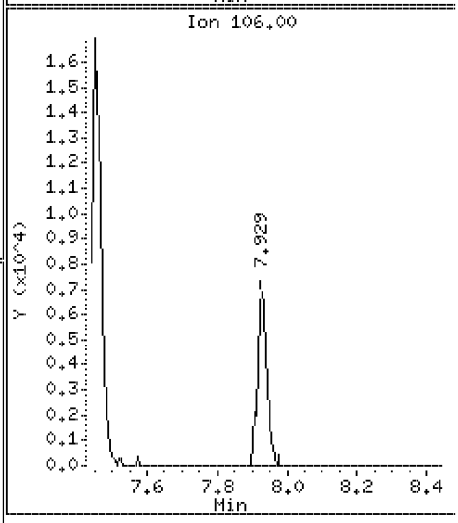
74 o-Xylene

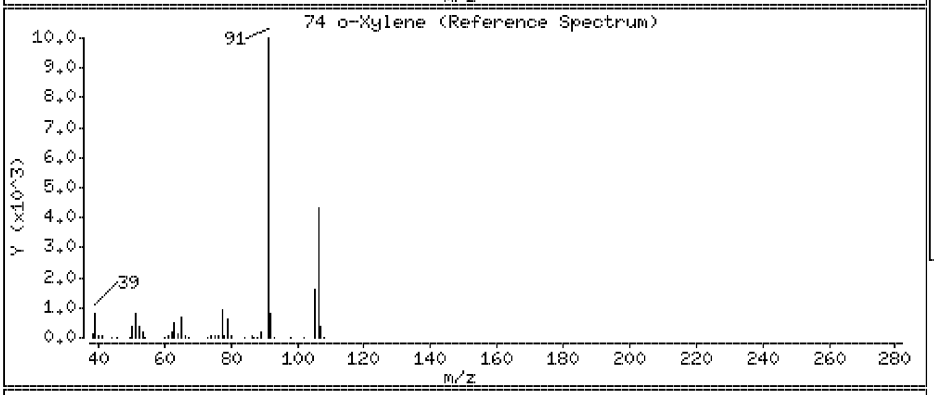
Concentration: 0.739 ppbv

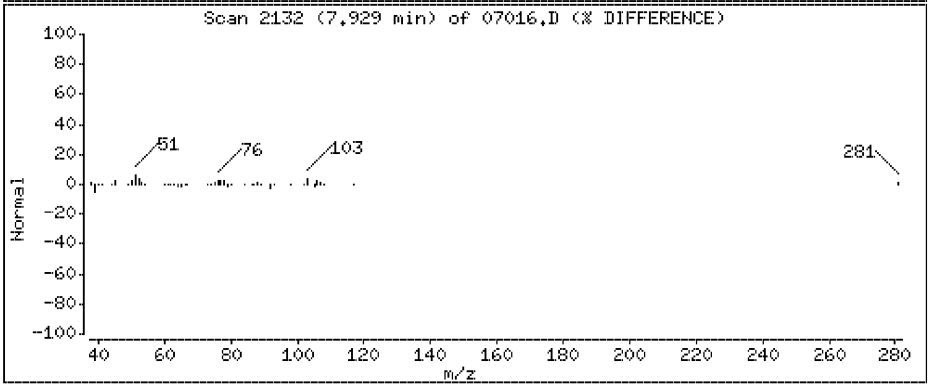












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

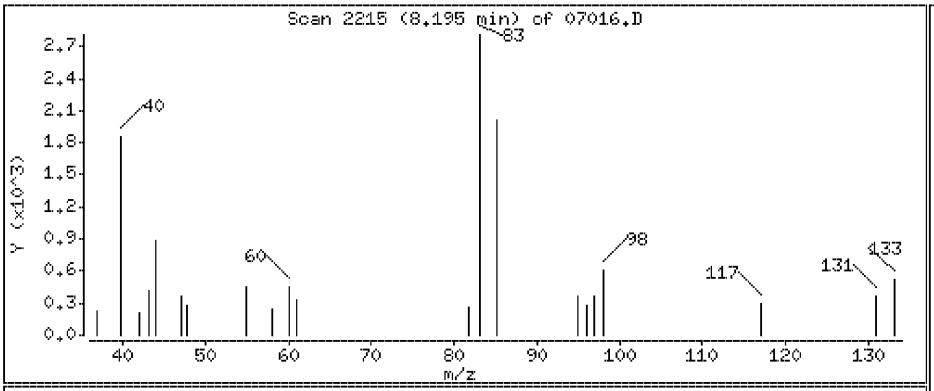
Operator: DR1

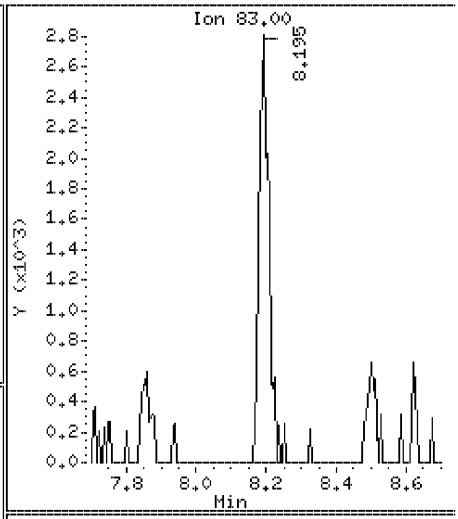
Column phase: J&W DB-5

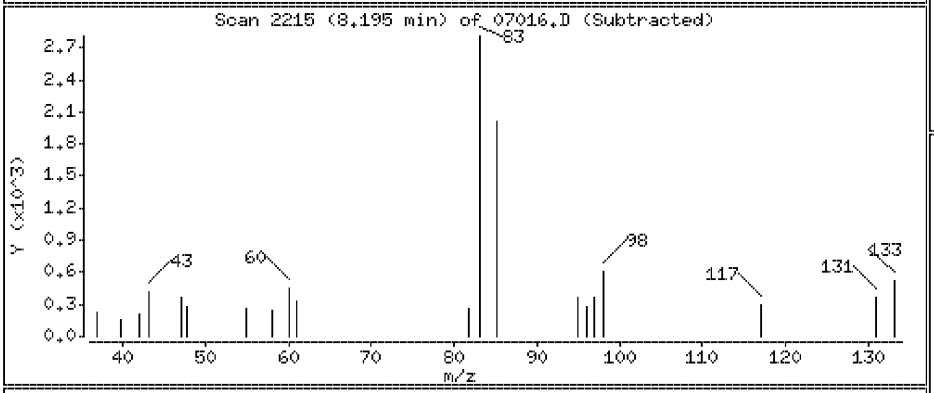
Column diameter: 0.32

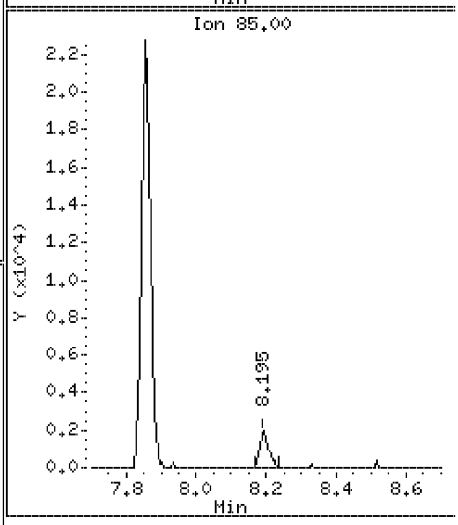
75 1,1,2,2-Tetrachloroethane

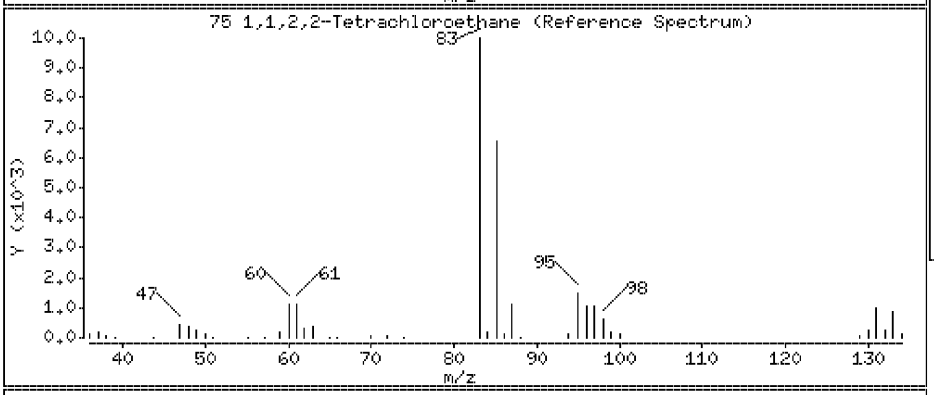
Concentration: 0.209 ppbv

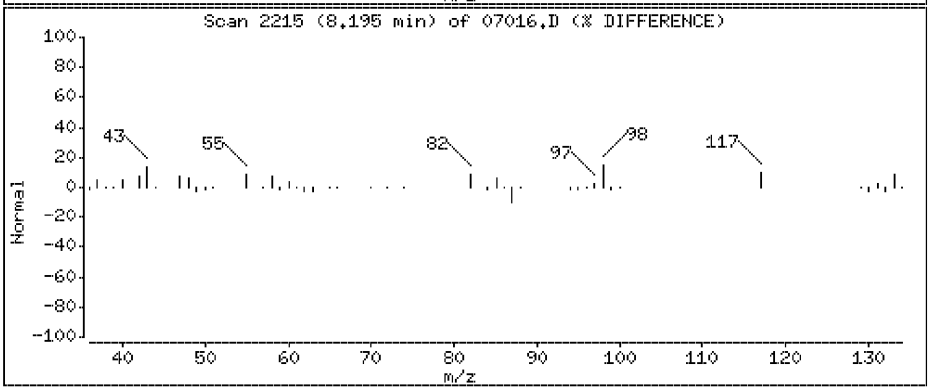












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

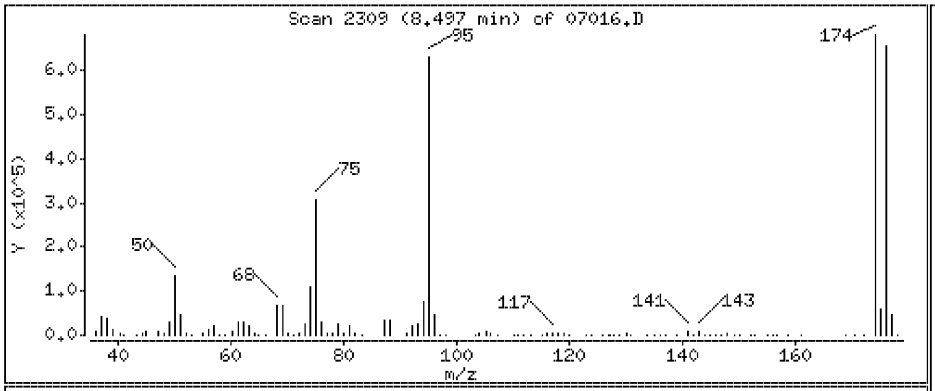
Operator: DR1

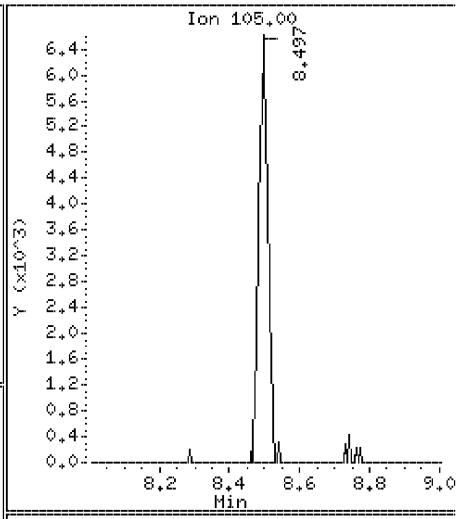
Column phase: J&W DB-5

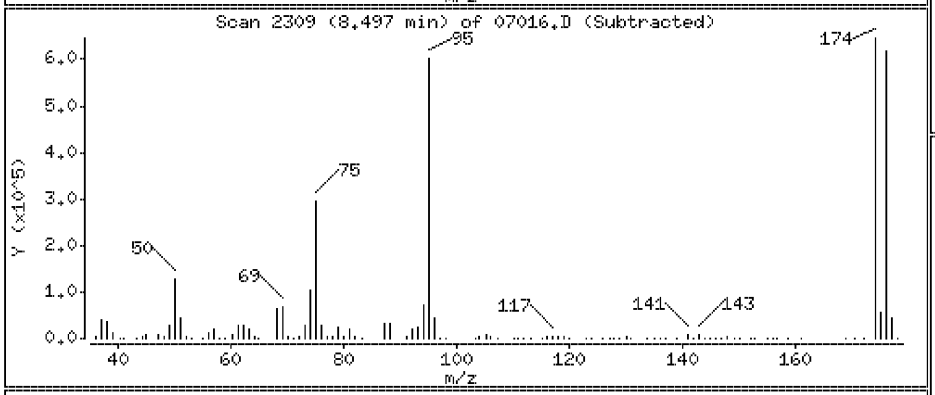
Column diameter: 0.32

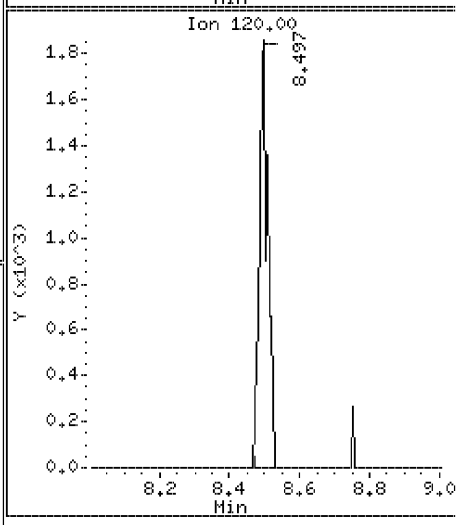
76 Isopropylbenzene

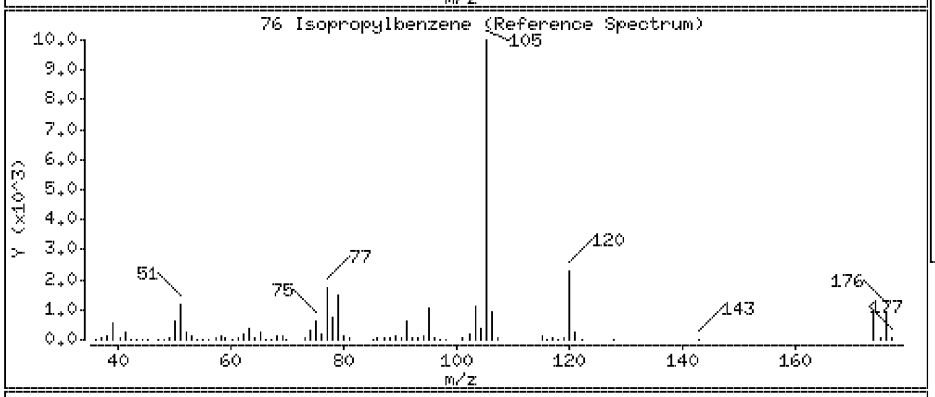
Concentration: 0.249 ppbv

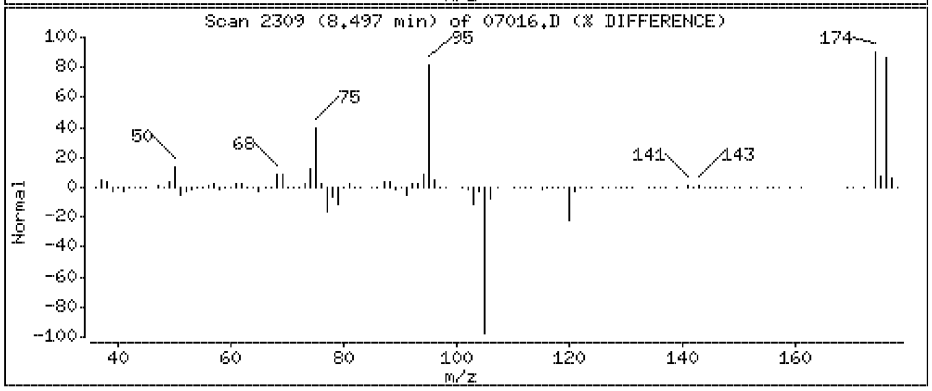












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

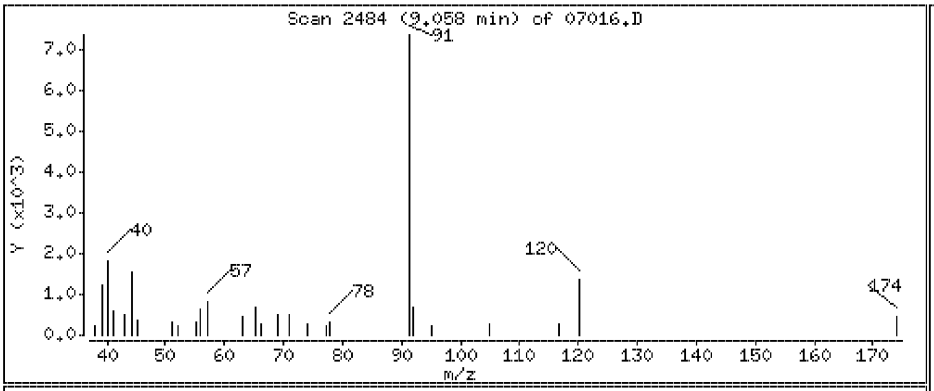
Operator: DR1

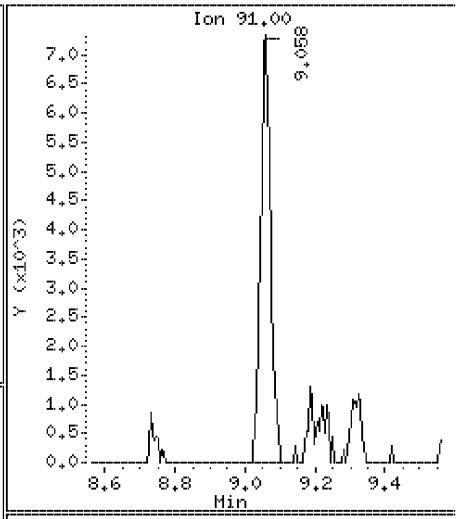
Column phase: J&W DB-5

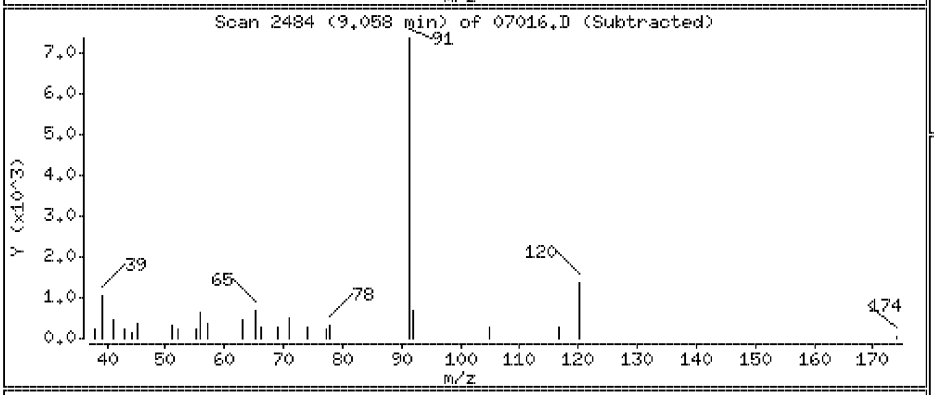
Column diameter: 0.32

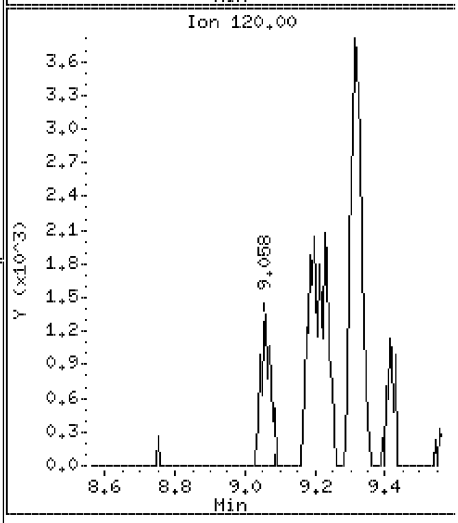
77 N-Propylbenzene

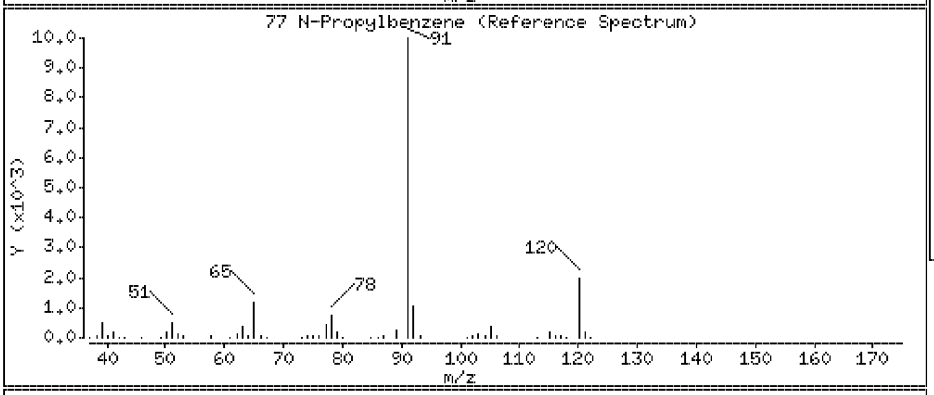
Concentration: 0.284 ppbv

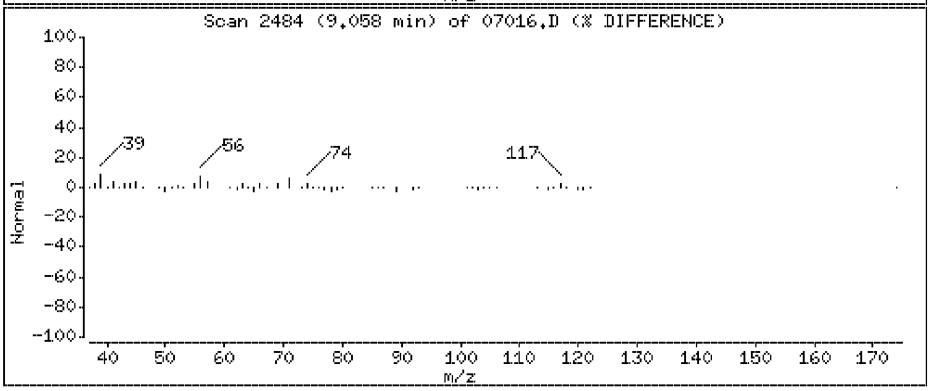












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

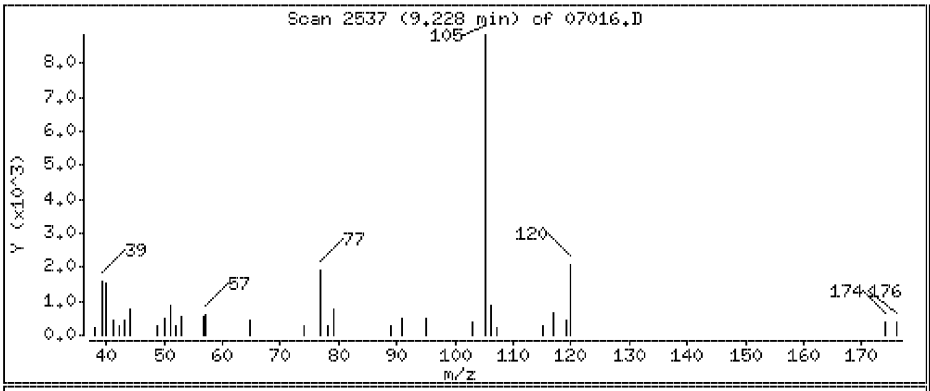
Operator: DR1

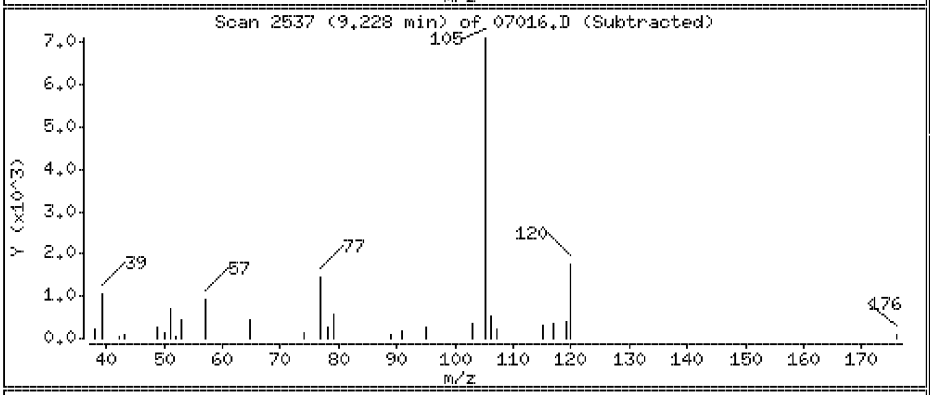
Column phase: J&W DB-5

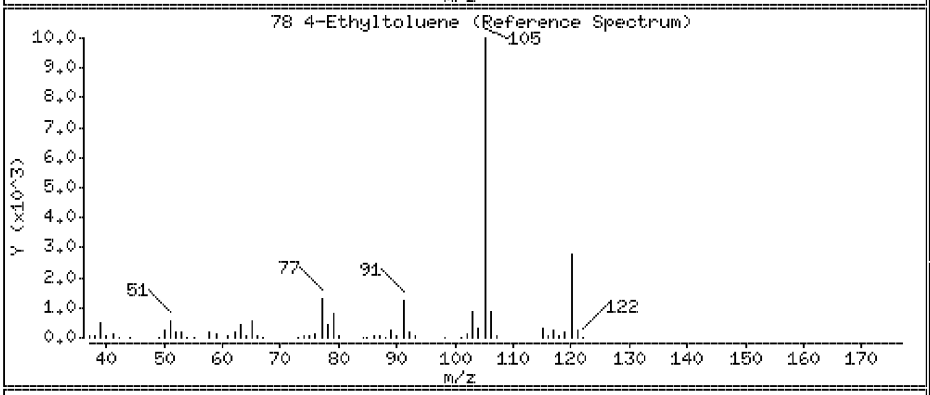
Column diameter: 0.32

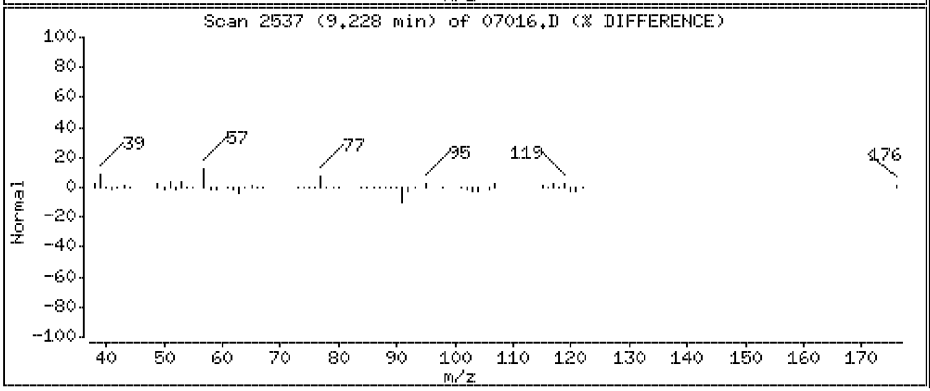
78 4-Ethyltoluene

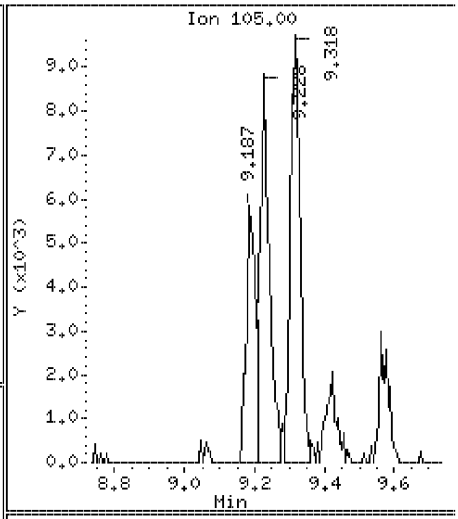
Concentration: 0.383 ppbv

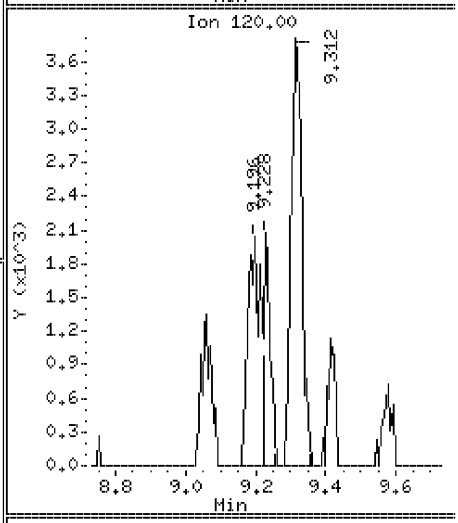


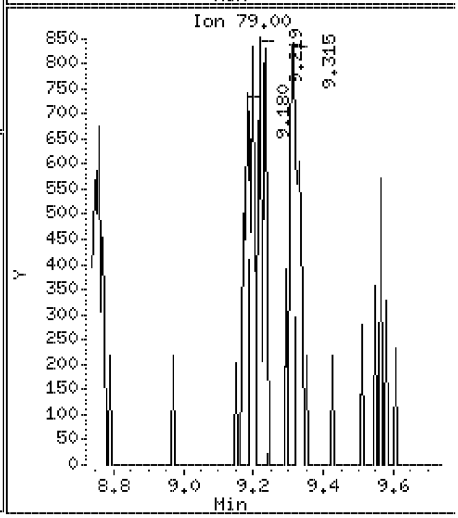












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

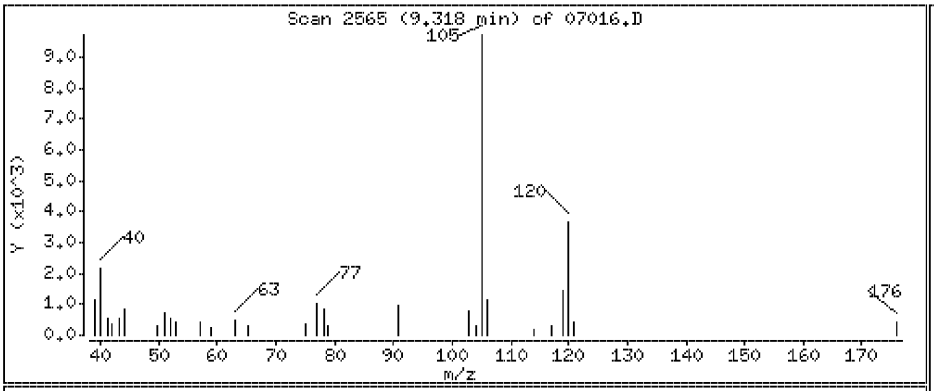
Operator: DR1

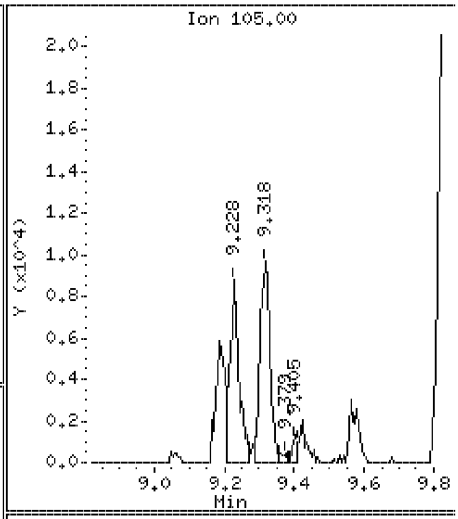
Column phase: J&W DB-5

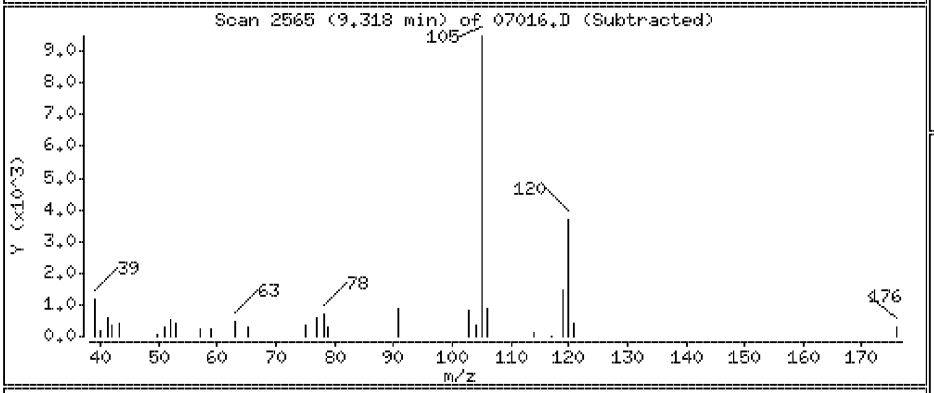
Column diameter: 0.32

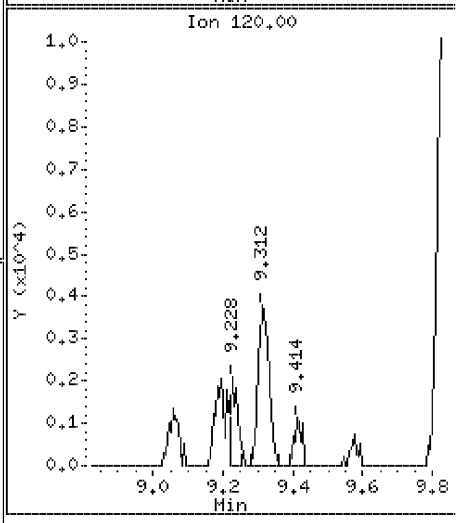
79 1,3,5-Trimethylbenzene

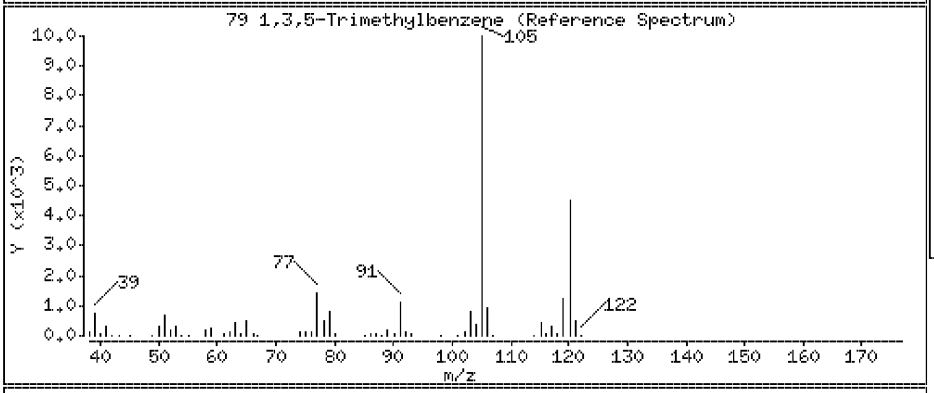
Concentration: 0.423 ppbv

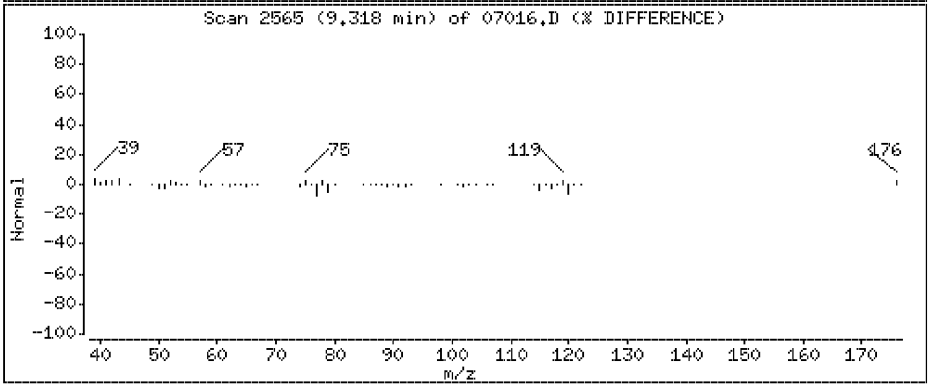












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

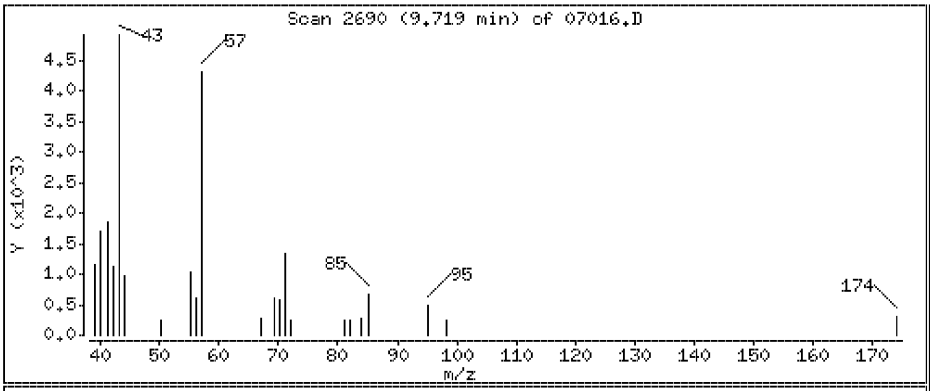
Operator: DR1

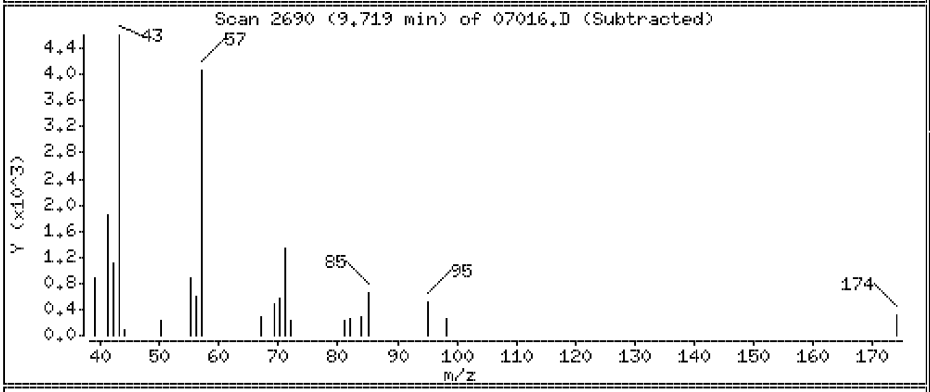
Column phase: J&W DB-5

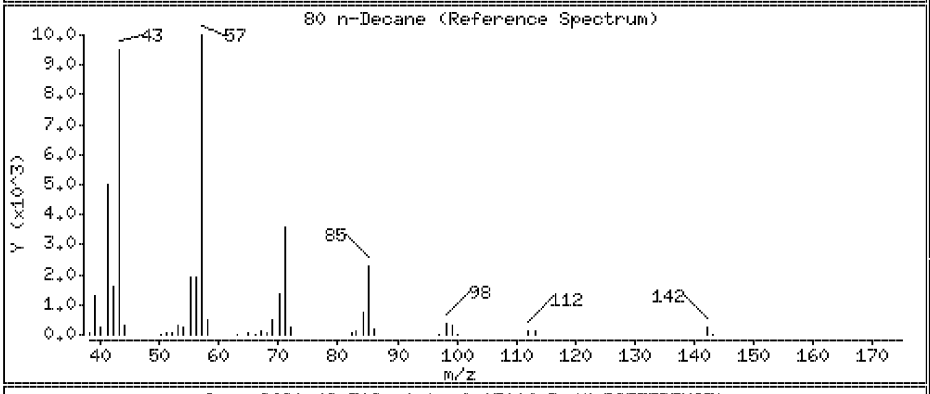
Column diameter: 0.32

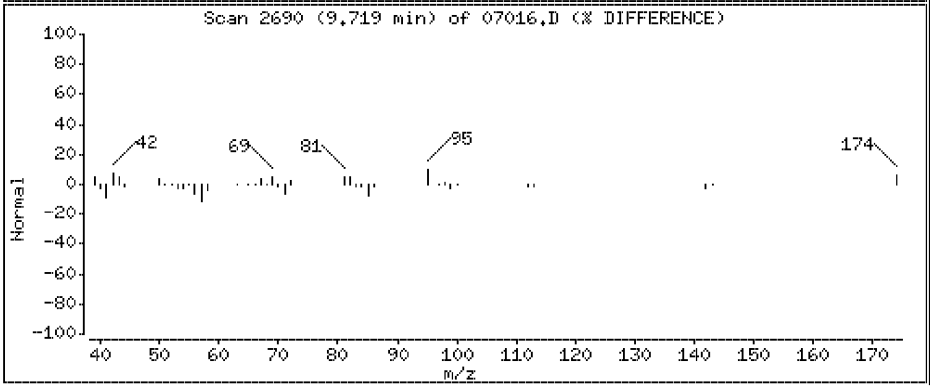
80 n-Decane

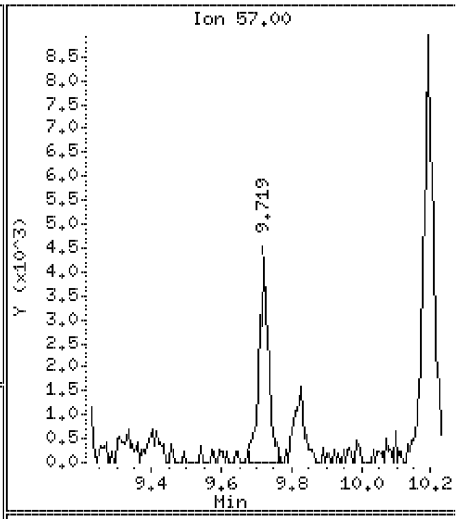
Concentration: 0.321 ppbv

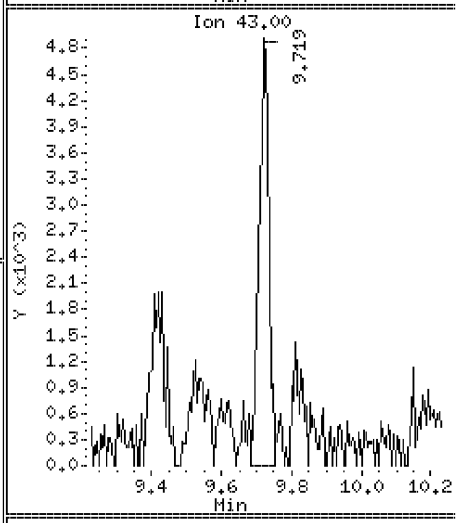


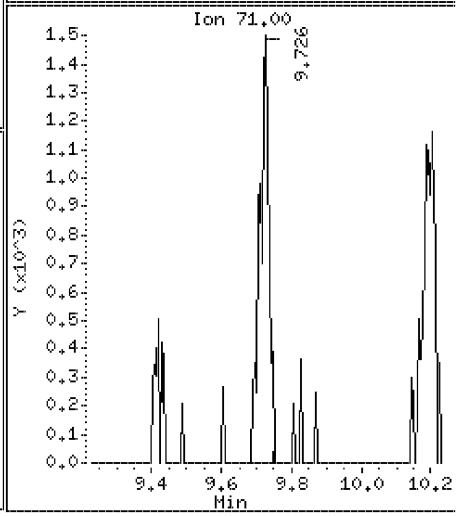












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

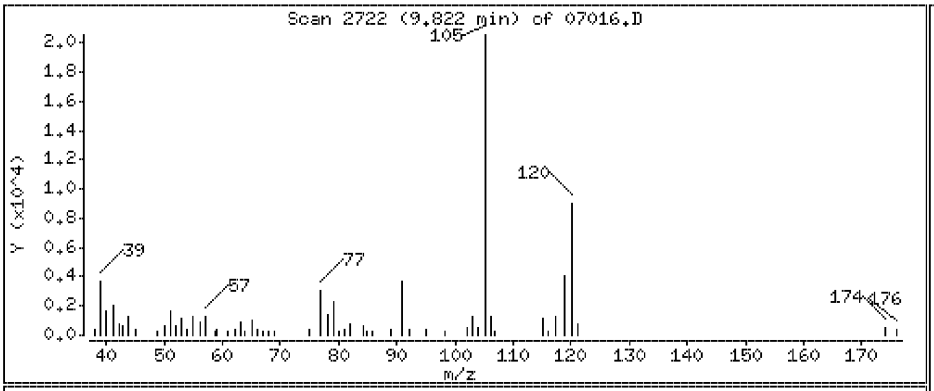
Operator: DR1

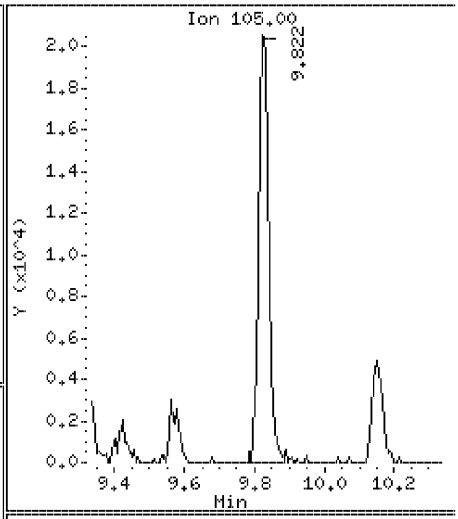
Column phase: J&W DB-5

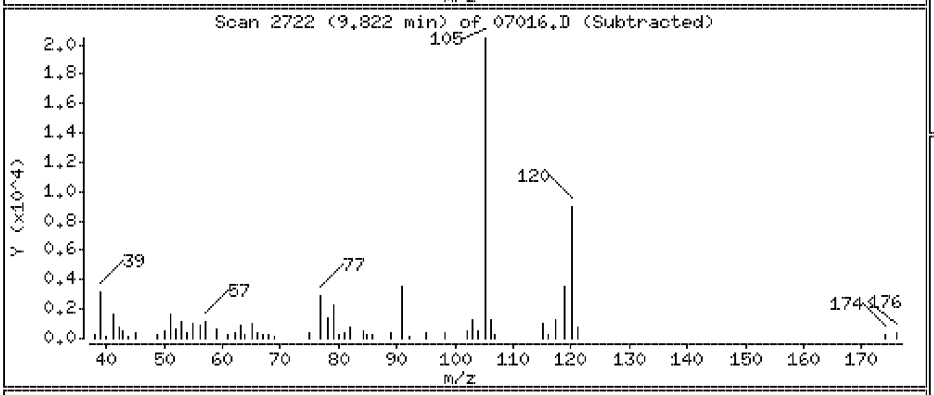
Column diameter: 0.32

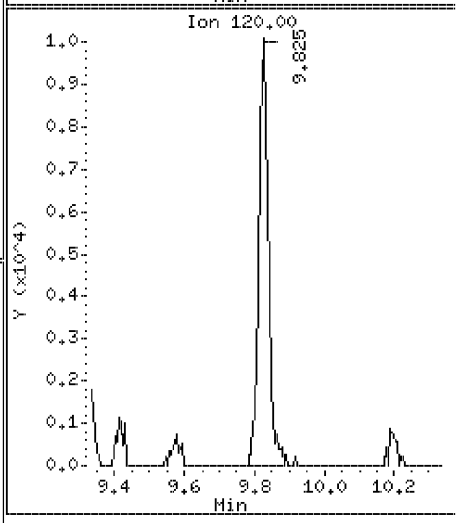
82 1,2,4-Trimethylbenzene

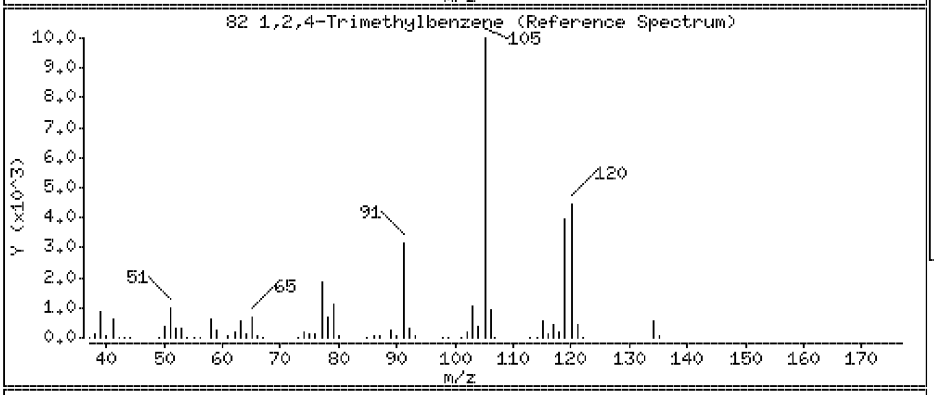
Concentration: 0.869 ppbv

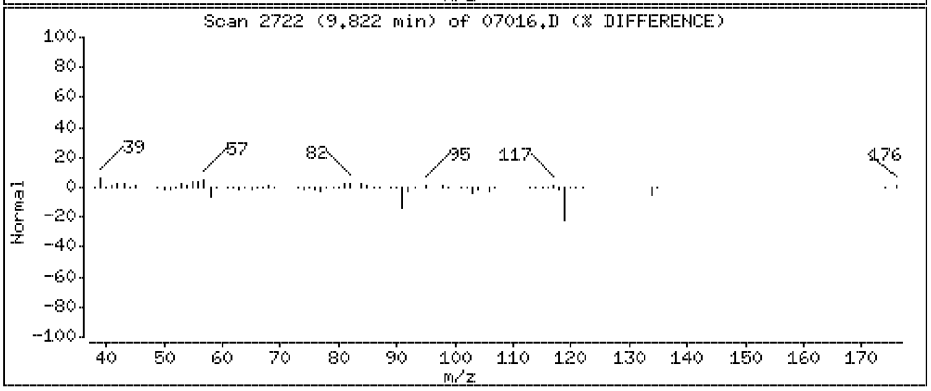












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

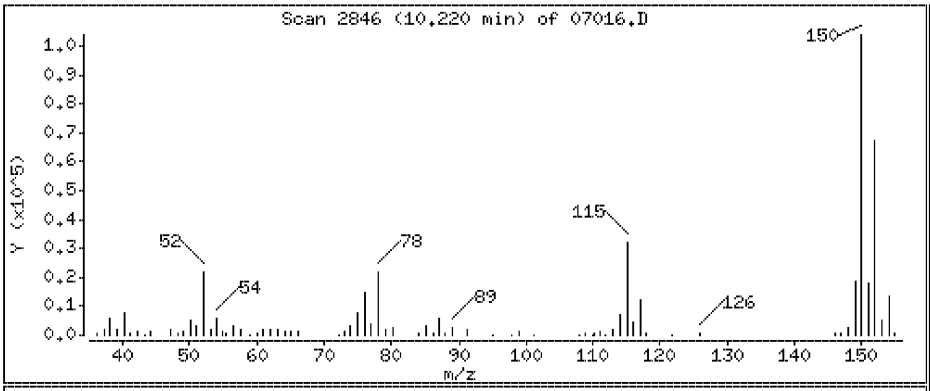
Operator: DR1

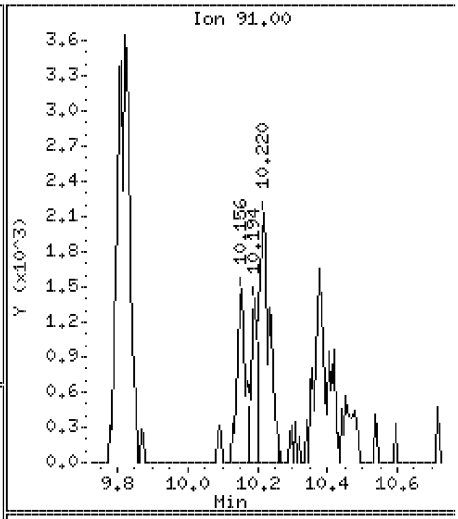
Column phase: J&W DB-5

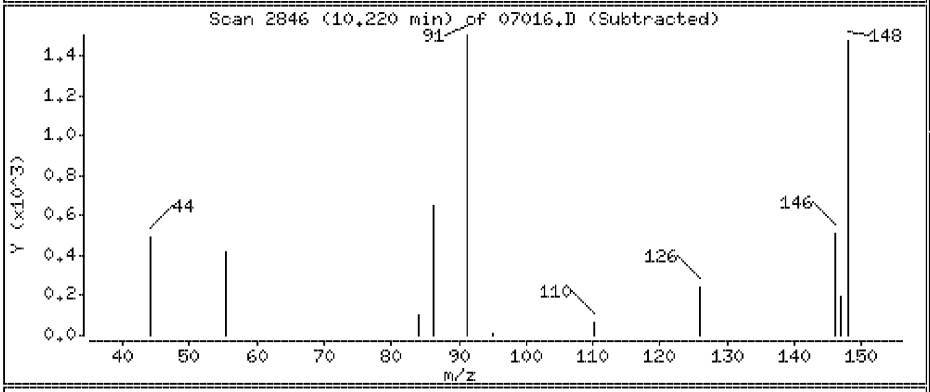
Column diameter: 0.32

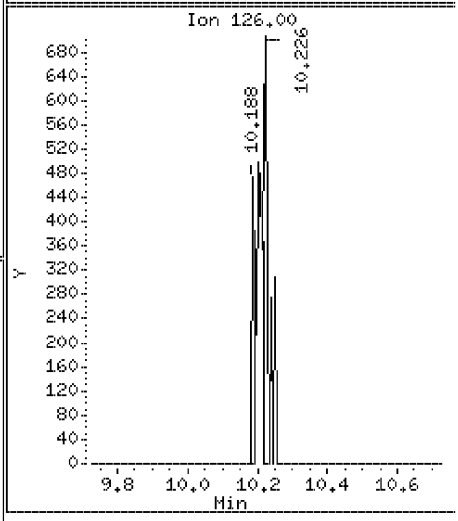
86 Benzyl Chloride

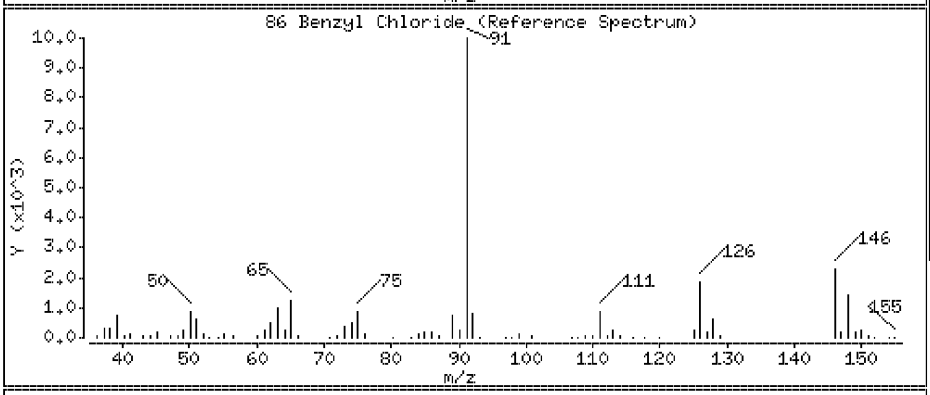
Concentration: 0.164 ppbv

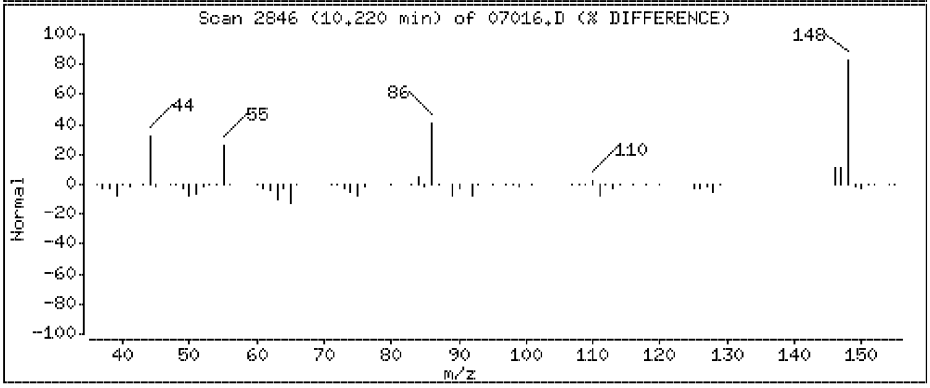












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

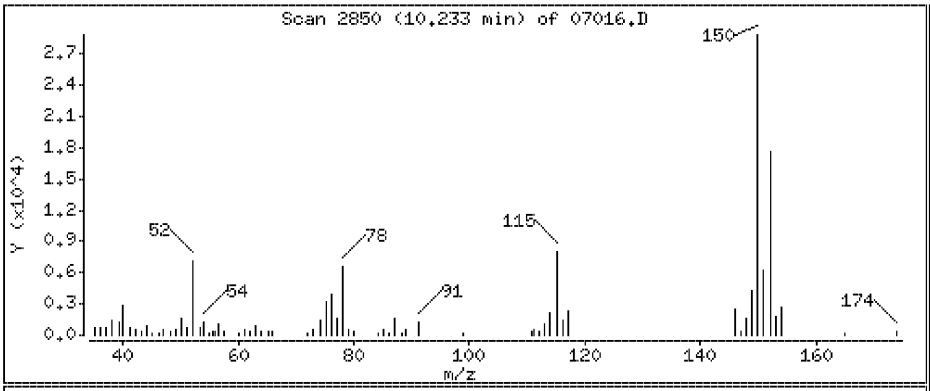
Operator: DR1

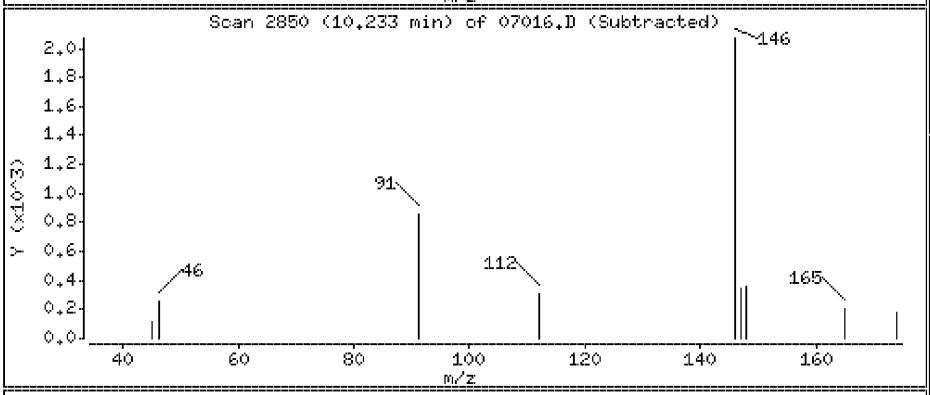
Column phase: J&W DB-5

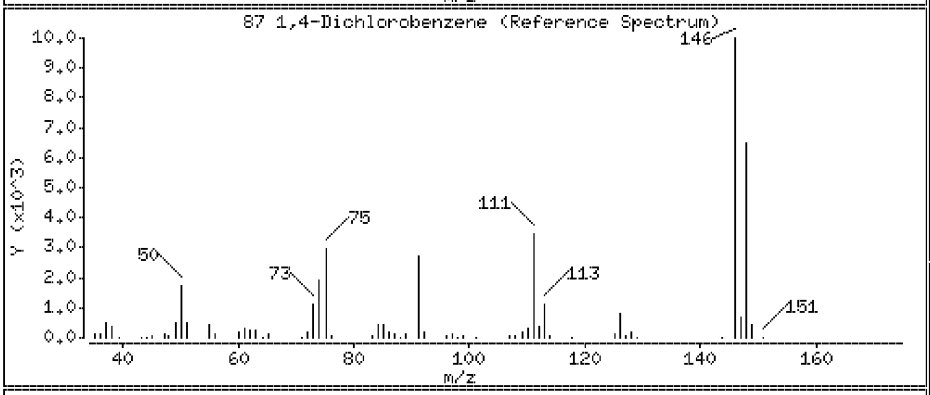
Column diameter: 0.32

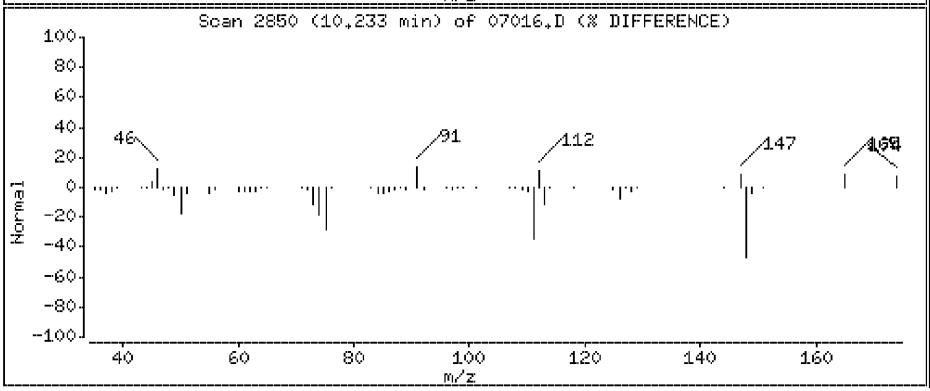
87 1,4-Dichlorobenzene

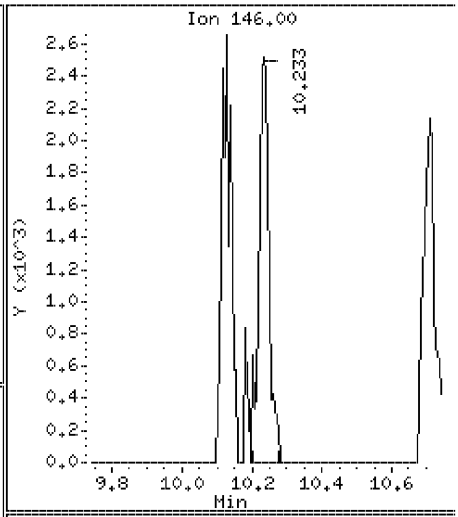
Concentration: 0.169 ppbv

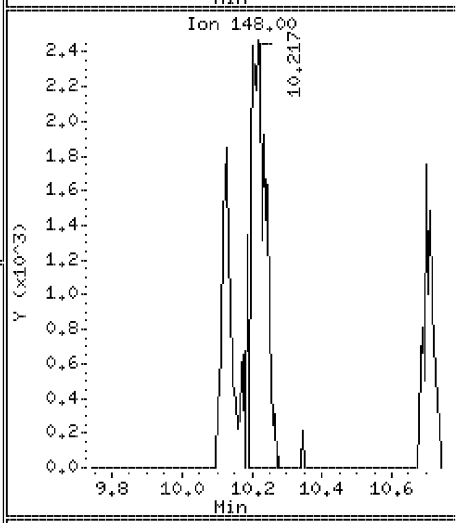


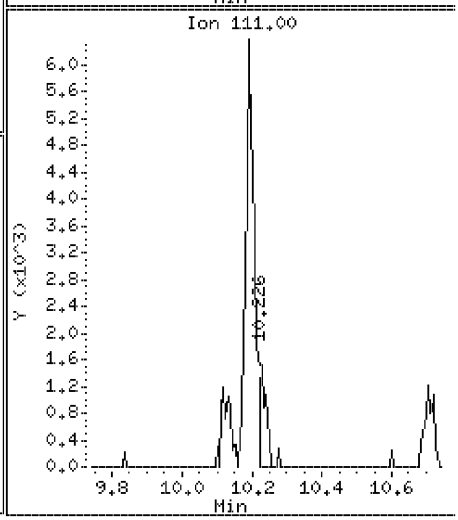












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

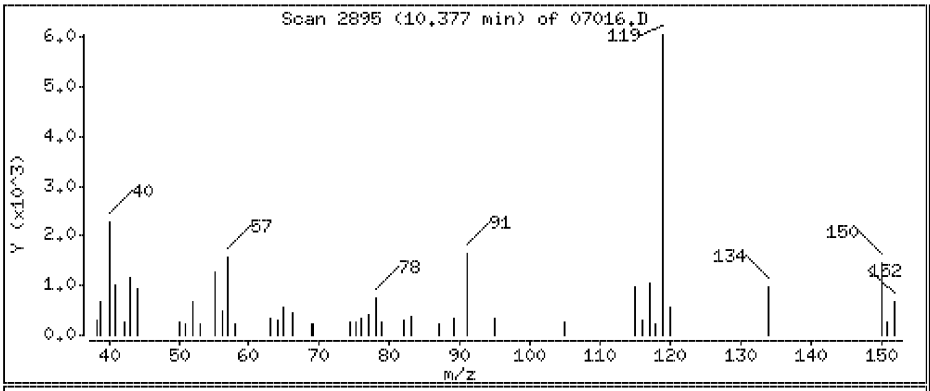
Operator: DR1

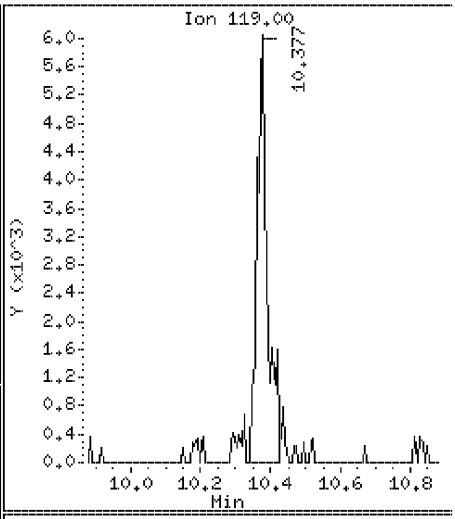
Column phase: J&W DB-5

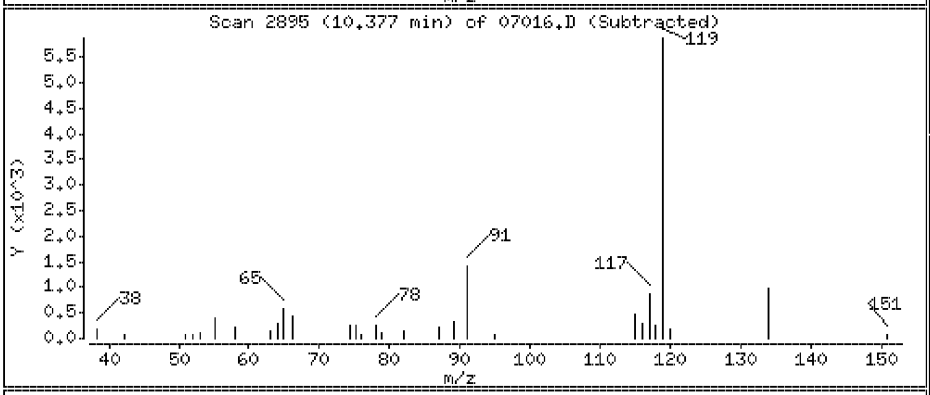
Column diameter: 0.32

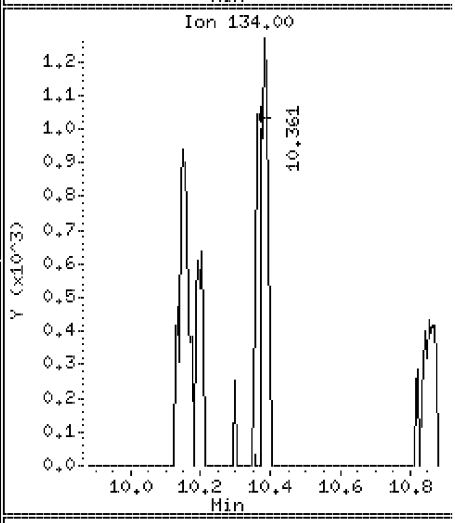
88 p-Isopropyltoluene

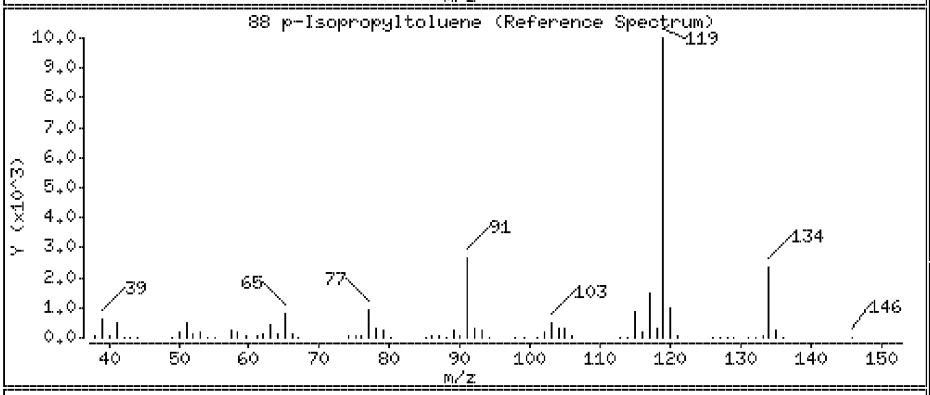
Concentration: 0.277 ppbv

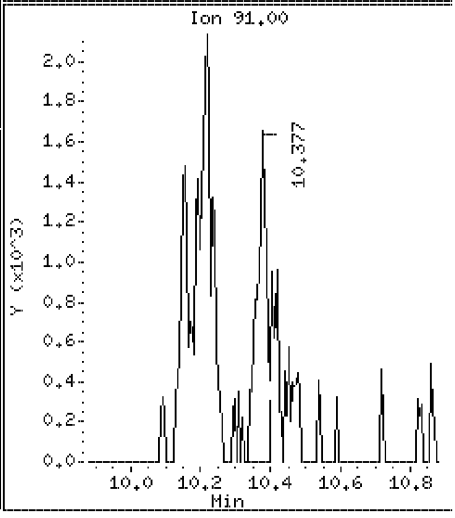


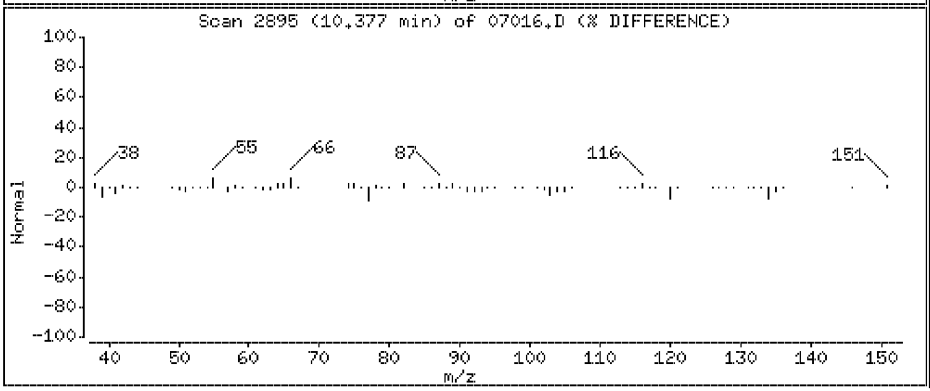












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

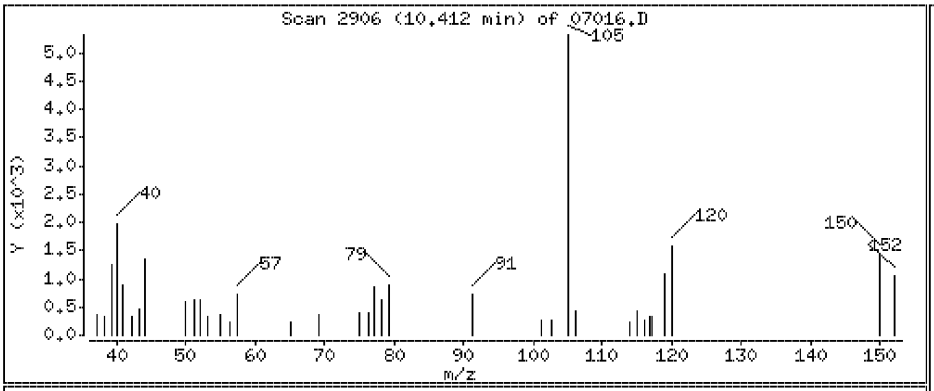
Operator: DR1

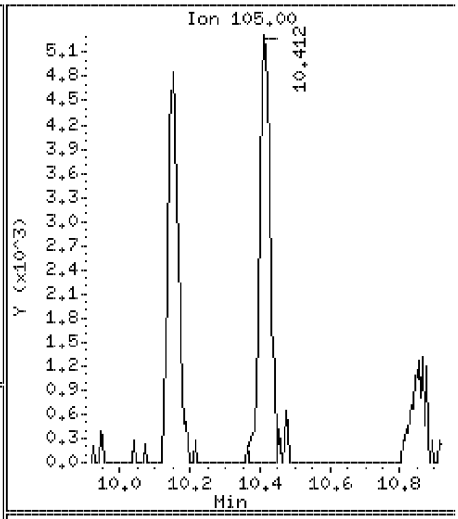
Column phase: J&W DB-5

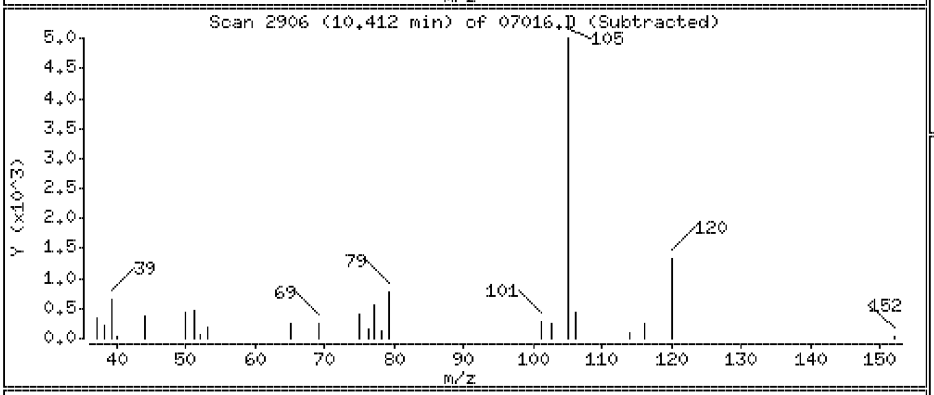
Column diameter: 0.32

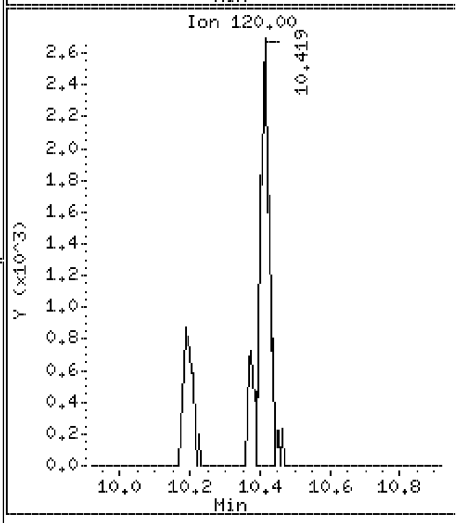
89 1,2,3-Trimethylbenzene

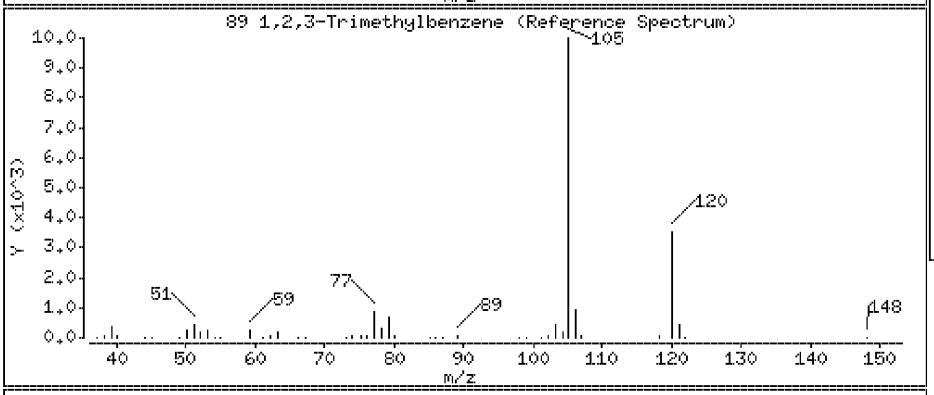
Concentration: 0.336 ppbv

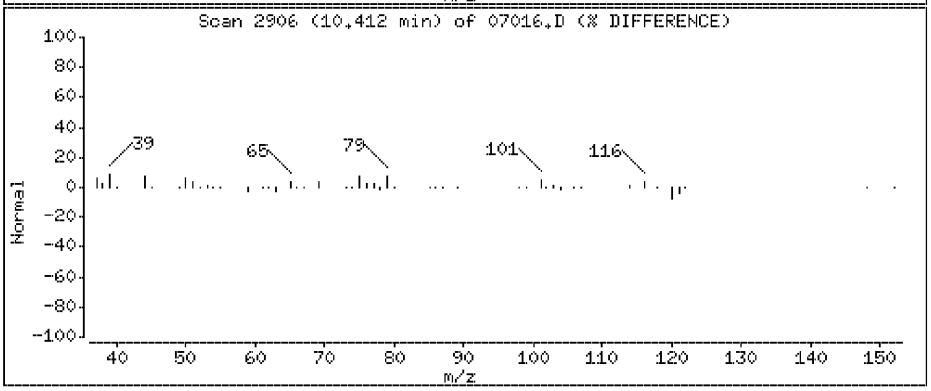












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

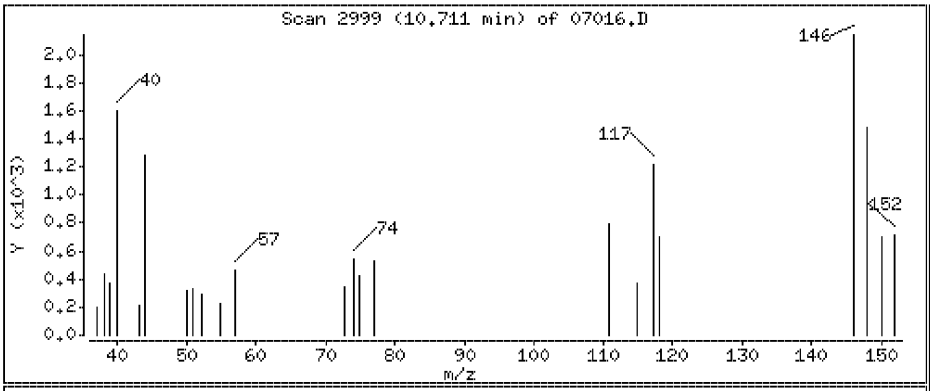
Operator: DR1

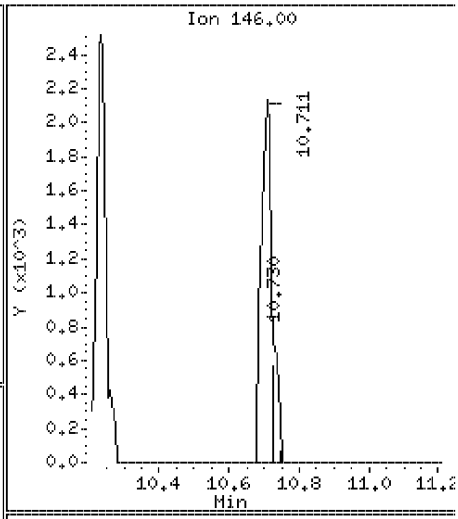
Column phase: J&W DB-5

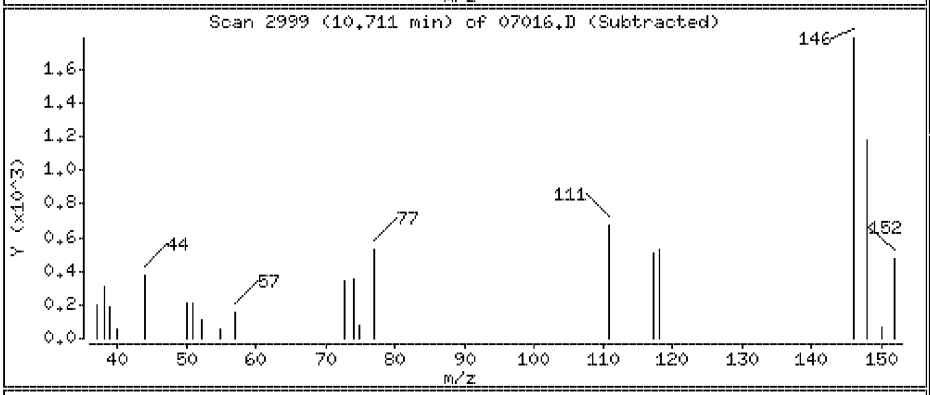
Column diameter: 0.32

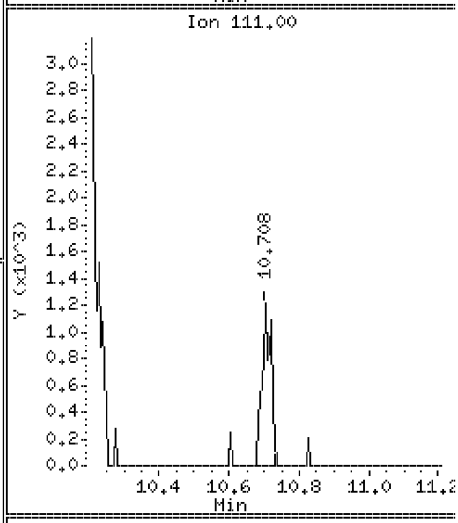
90 1,2-Dichlorobenzene

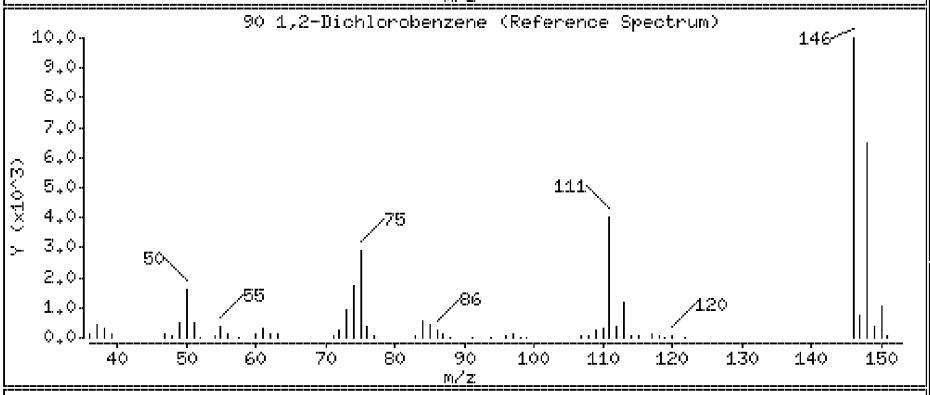
Concentration: 0.167 ppbv

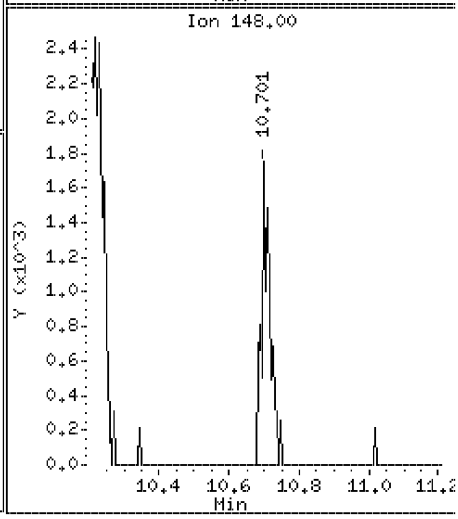


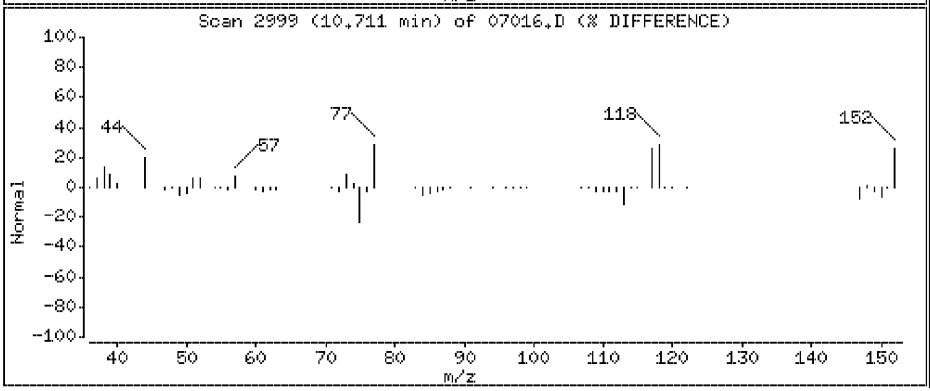












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

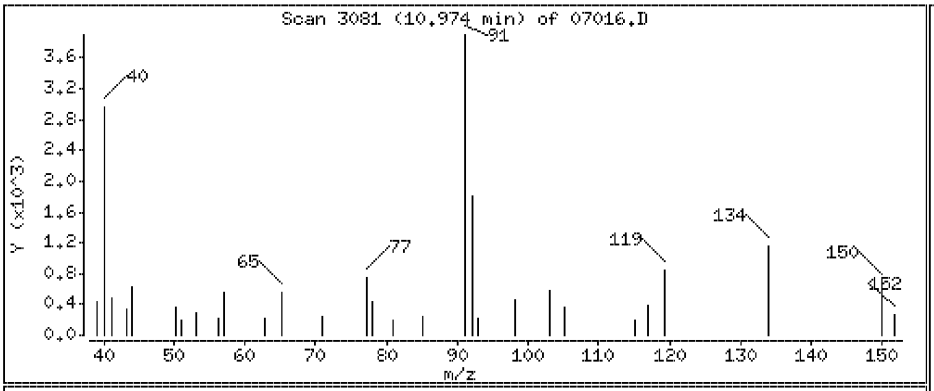
Operator: DR1

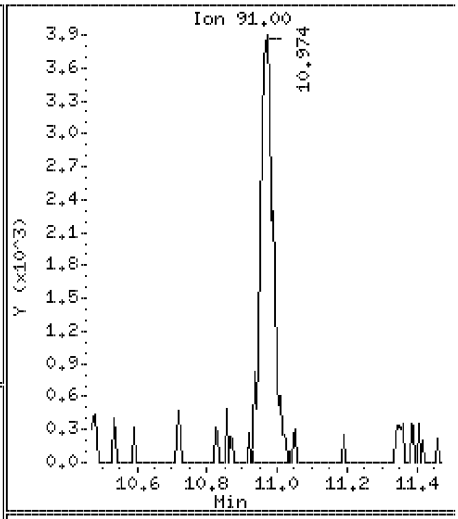
Column phase: J&W DB-5

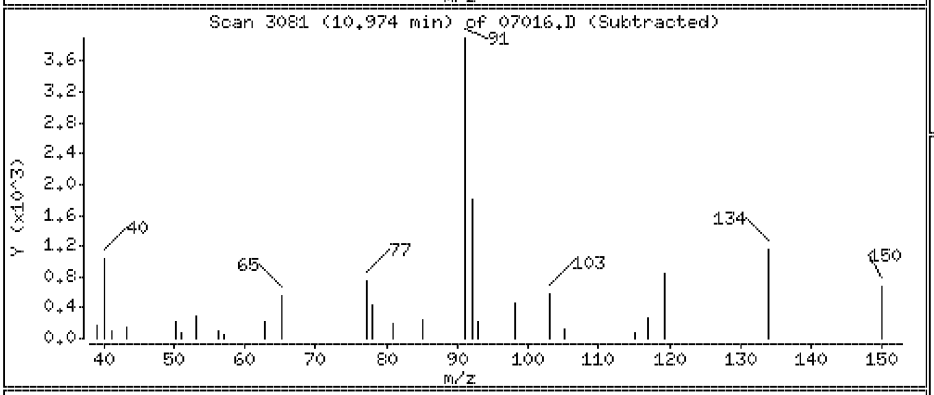
Column diameter: 0.32

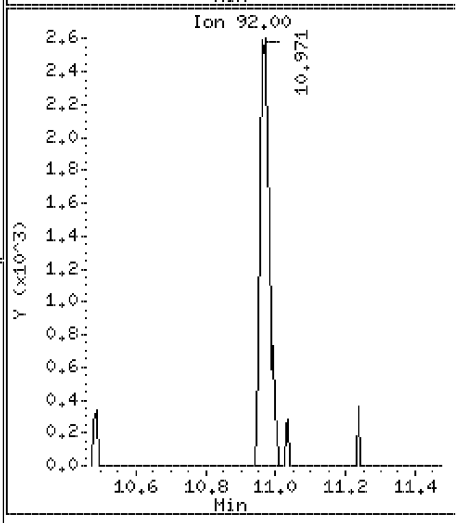
91 N-Butylbenzene

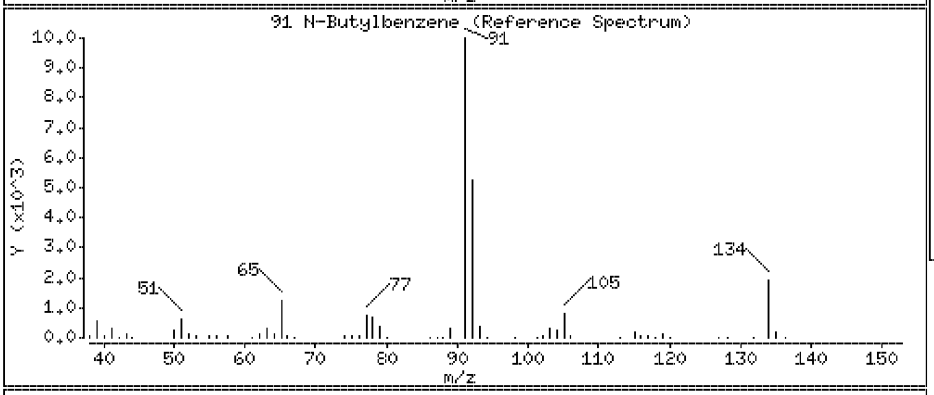
Concentration: 0.288 ppbv

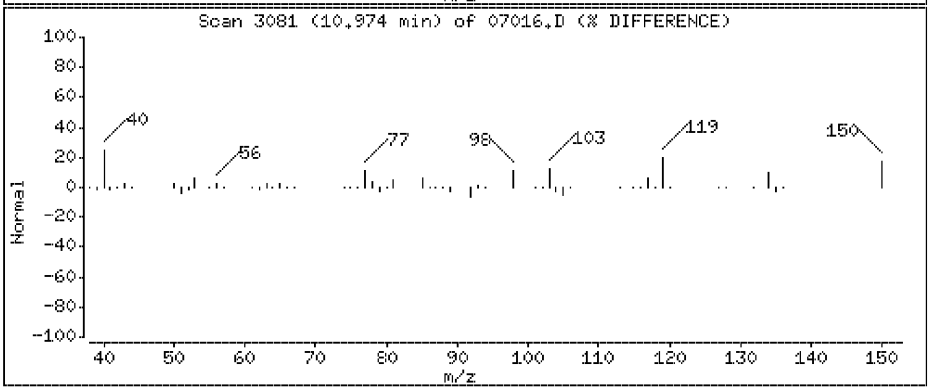












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

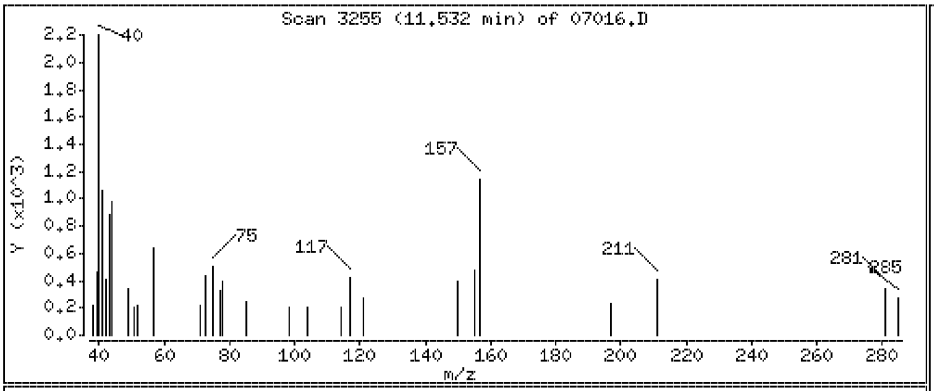
Operator: DR1

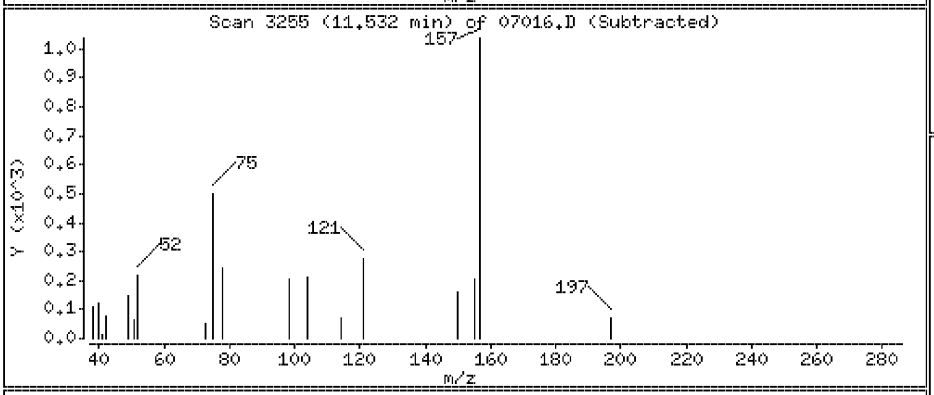
Column phase: J&W DB-5

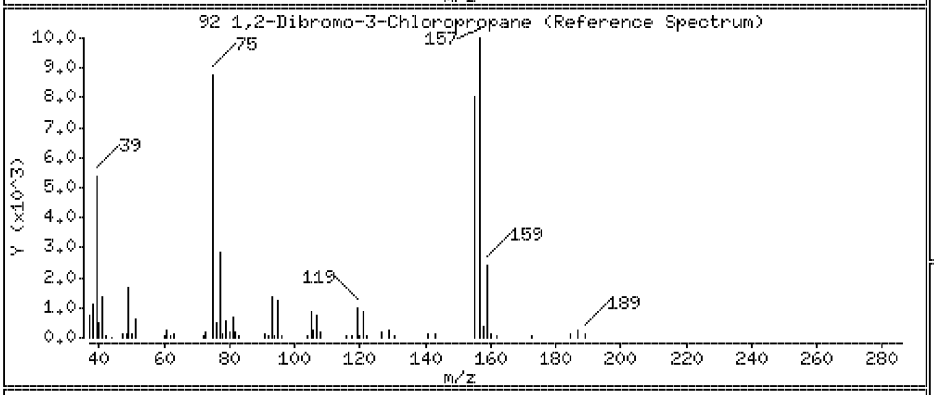
Column diameter: 0.32

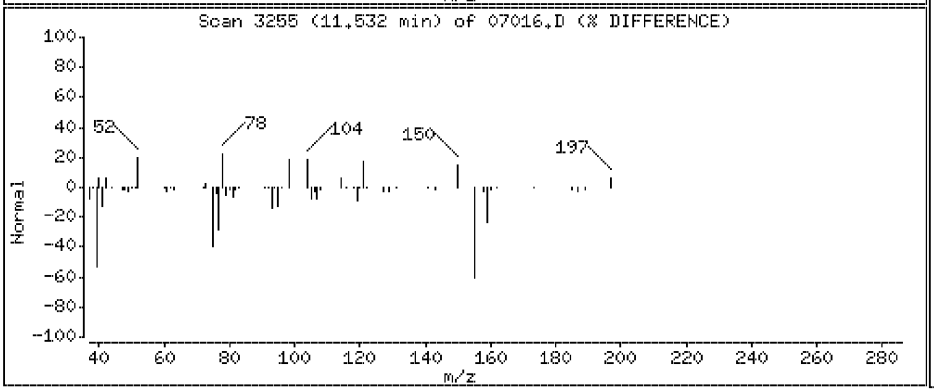
92 1,2-Dibromo-3-Chloropropane

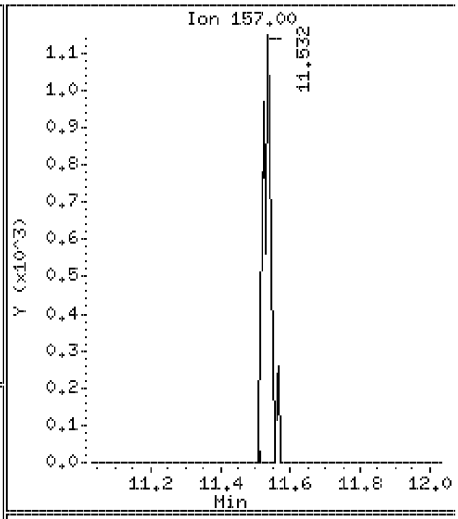
Concentration: 0.278 ppbv

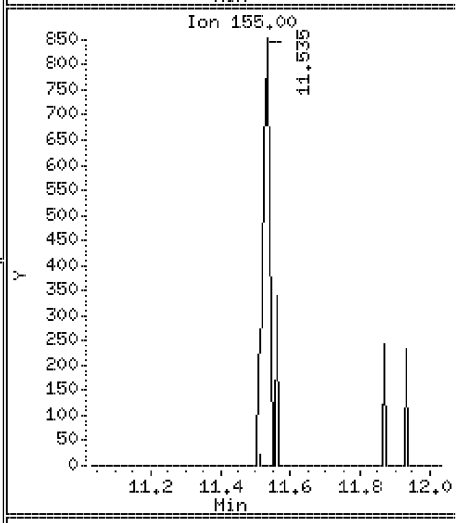


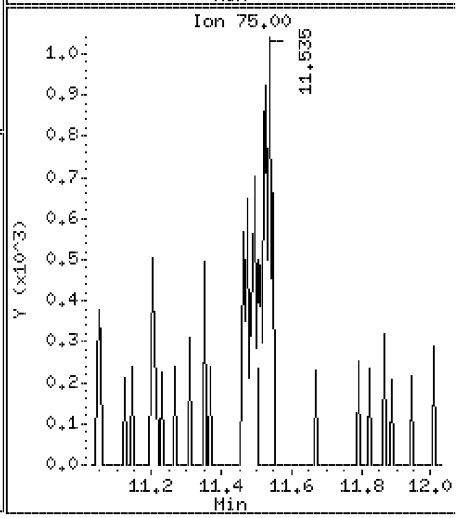












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

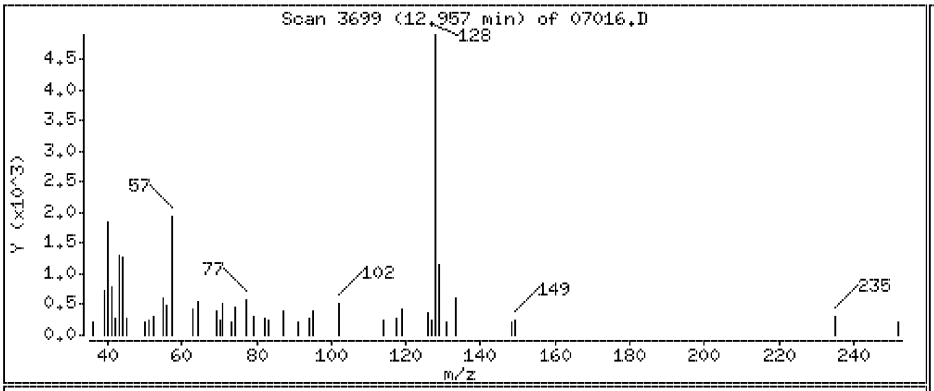
Operator: DR1

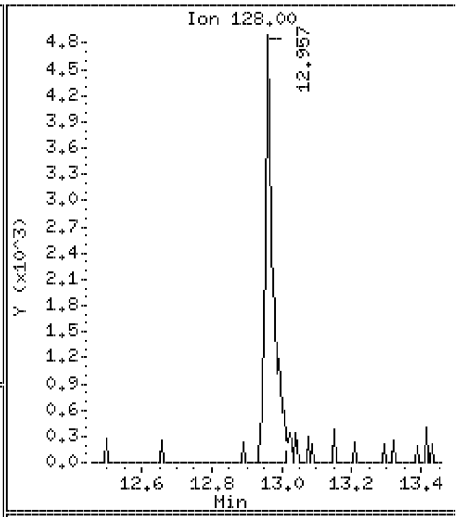
Column phase: J&W DB-5

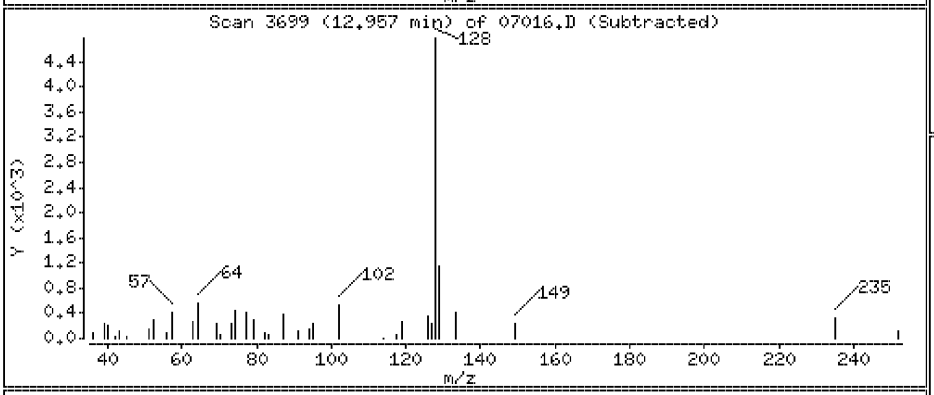
Column diameter: 0.32

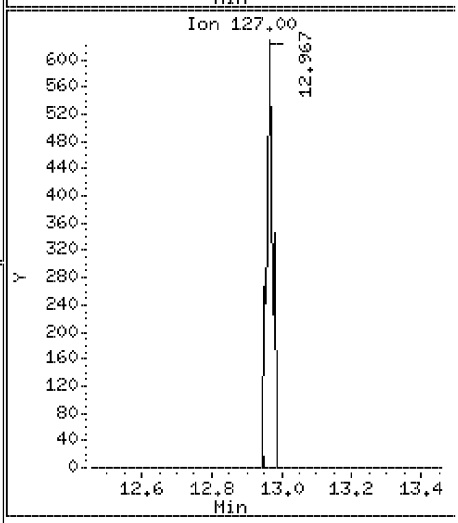
94 Naphthalene

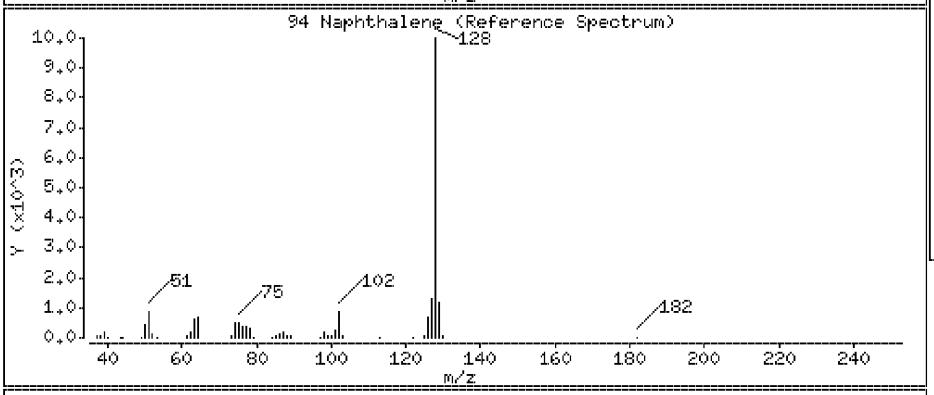
Concentration: 0.680 ppbv

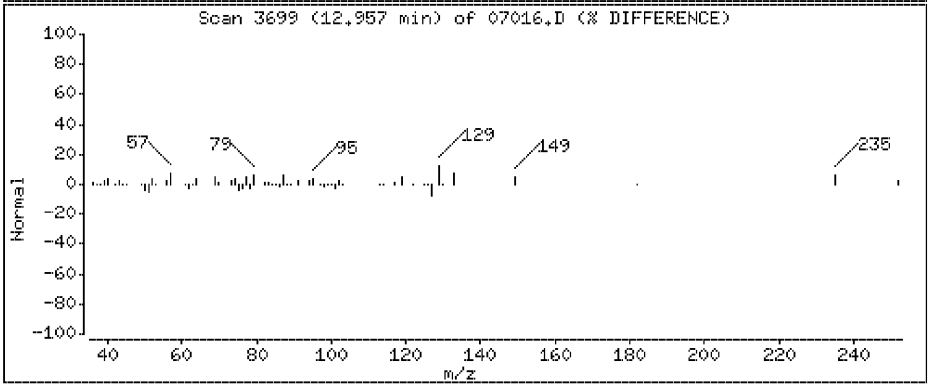












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07016.D

Date : 11-MAR-2017 18:50

Client ID:

Instrument: 10airD.i

Sample Info:

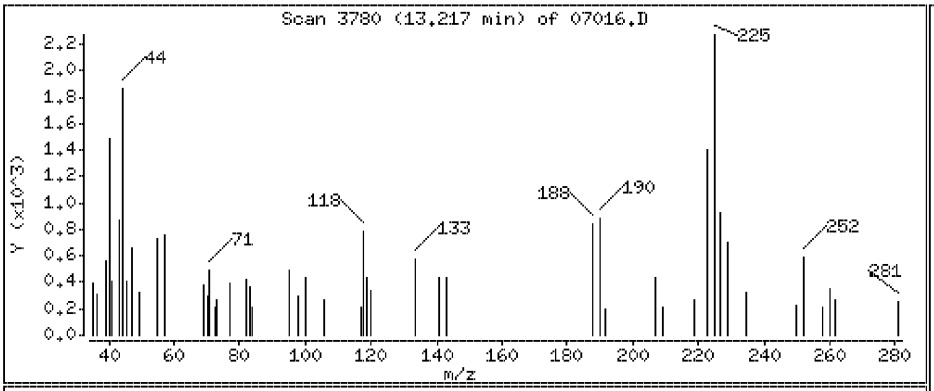
Operator: DR1

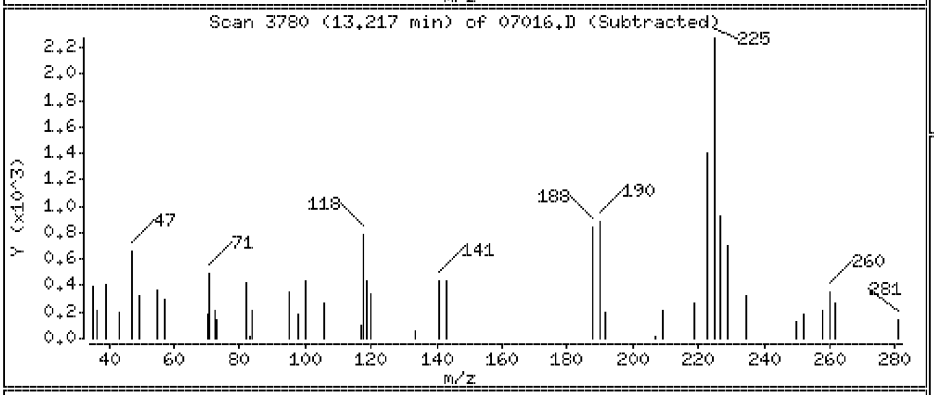
Column phase: J&W DB-5

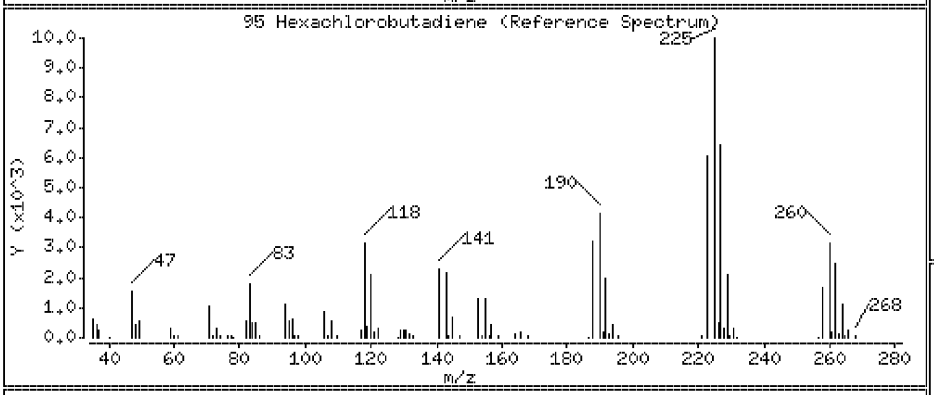
Column diameter: 0.32

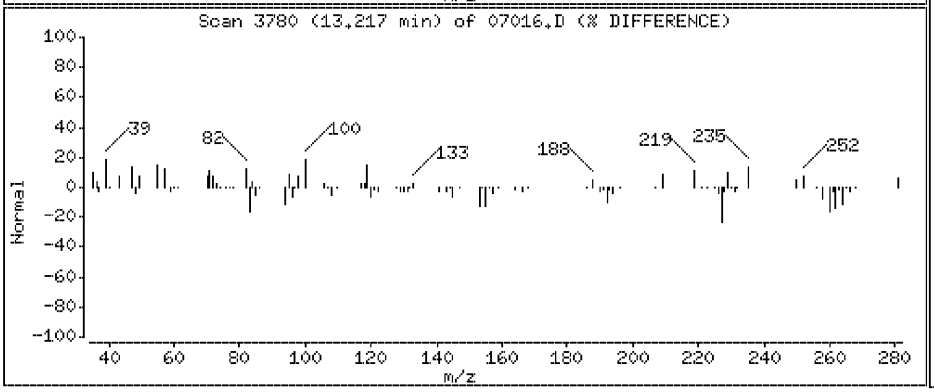
95 Hexachlorobutadiene

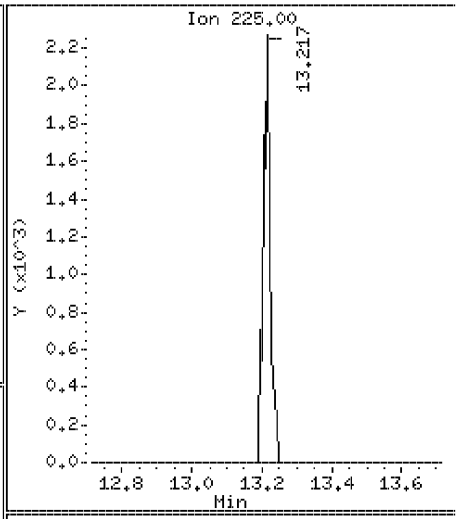
Concentration: 0.307 ppbv

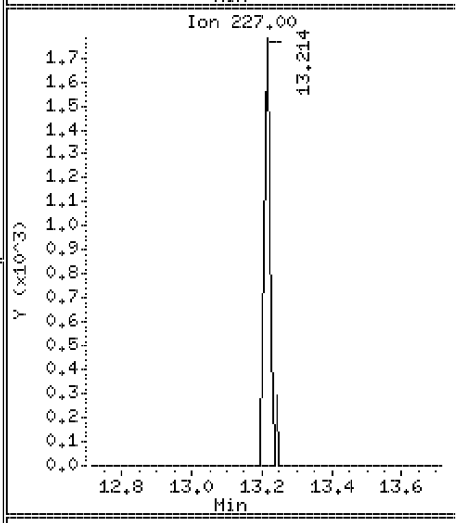


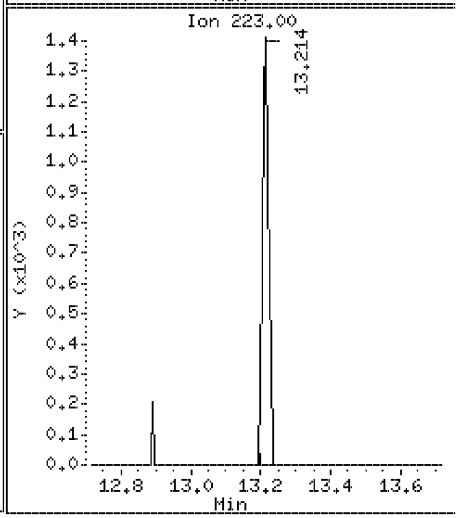






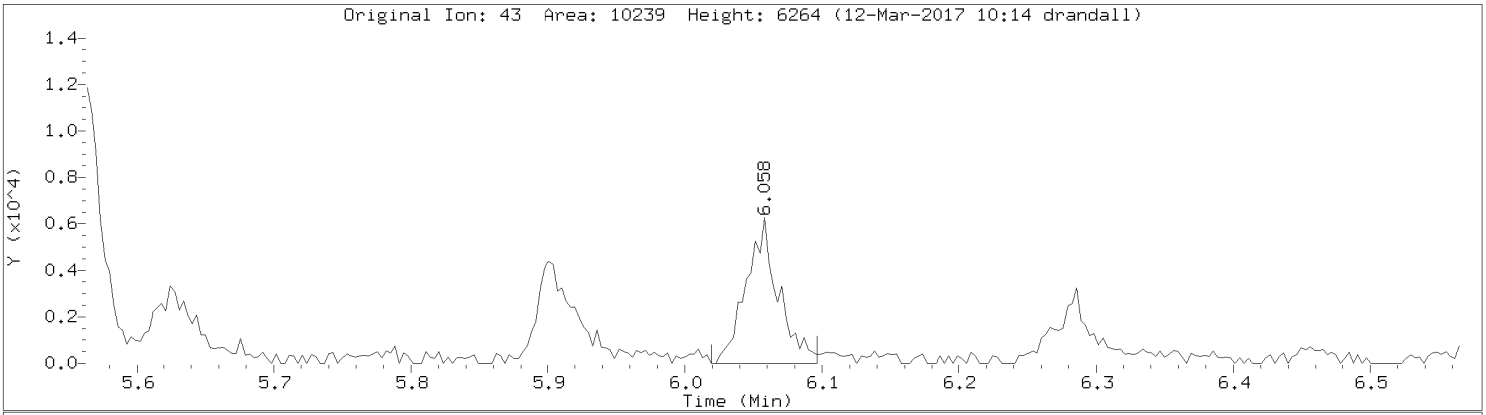


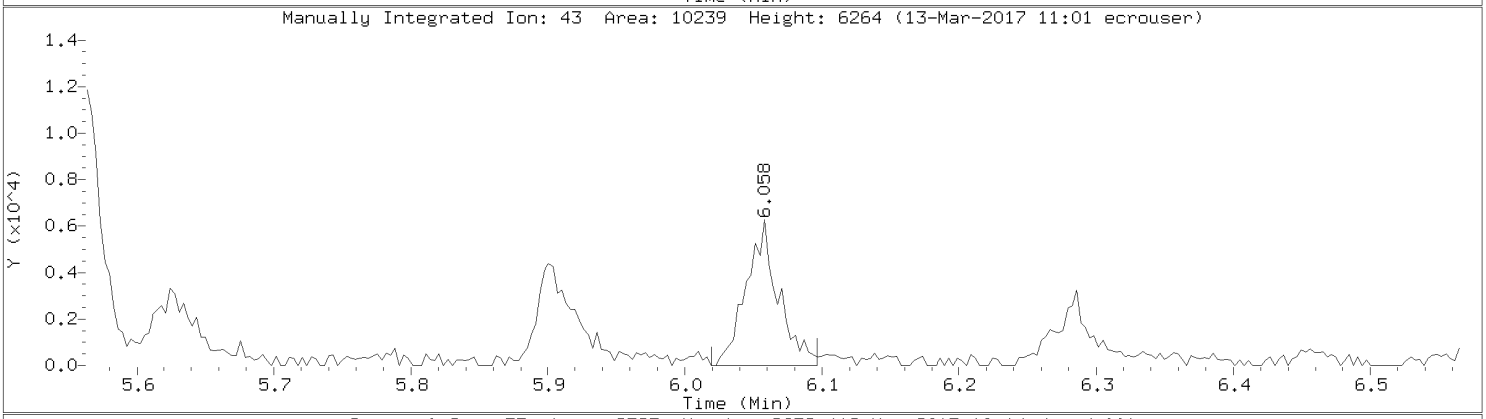


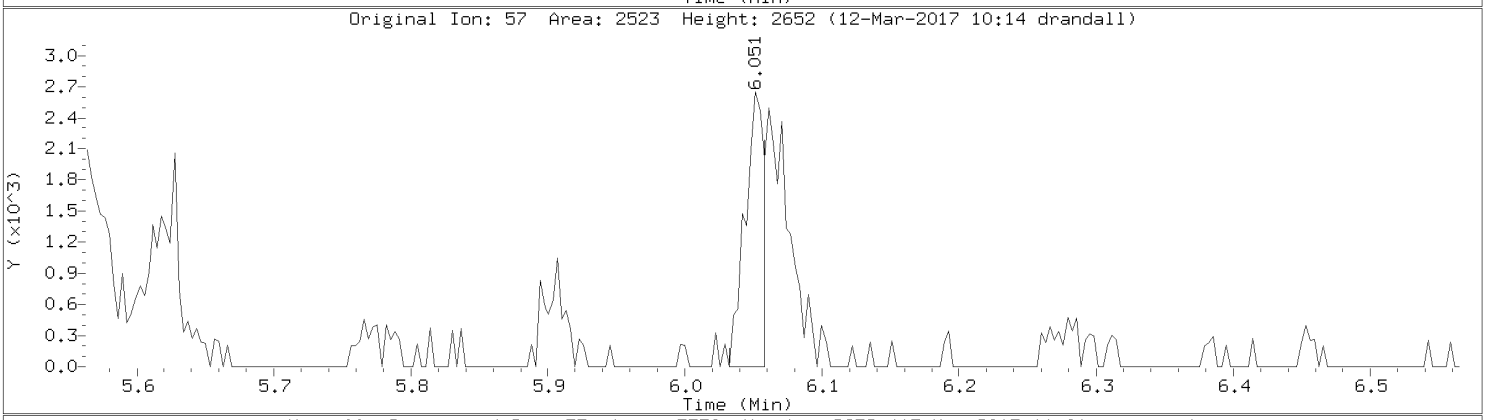


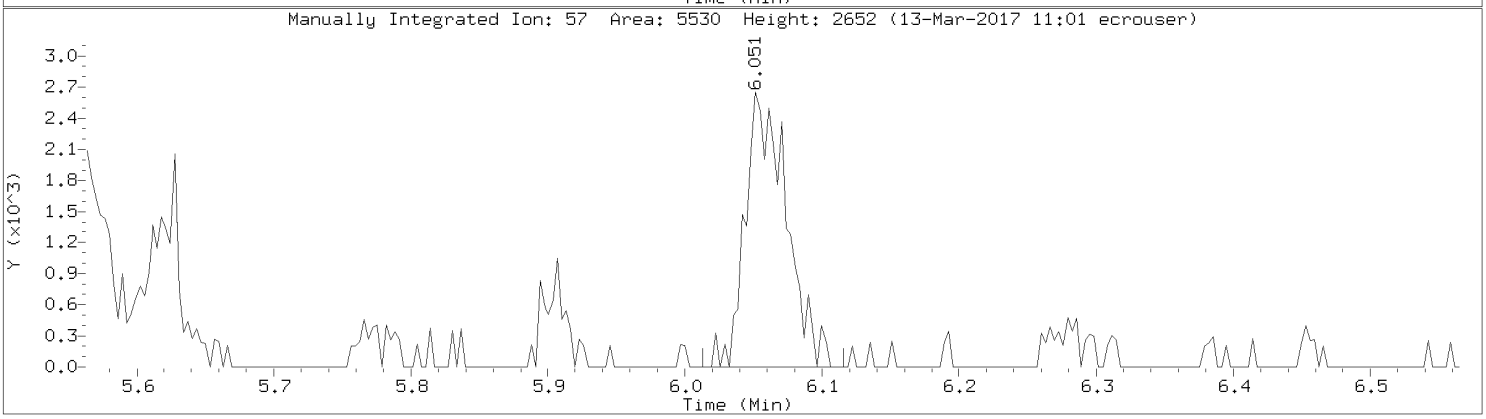
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07016.d
Injection Date: 11-MAR-2017 18:50
Instrument: 10airD.i
Lab Sample ID: 10380372013

Compound: n-Octane
CAS Number: 111-65-9

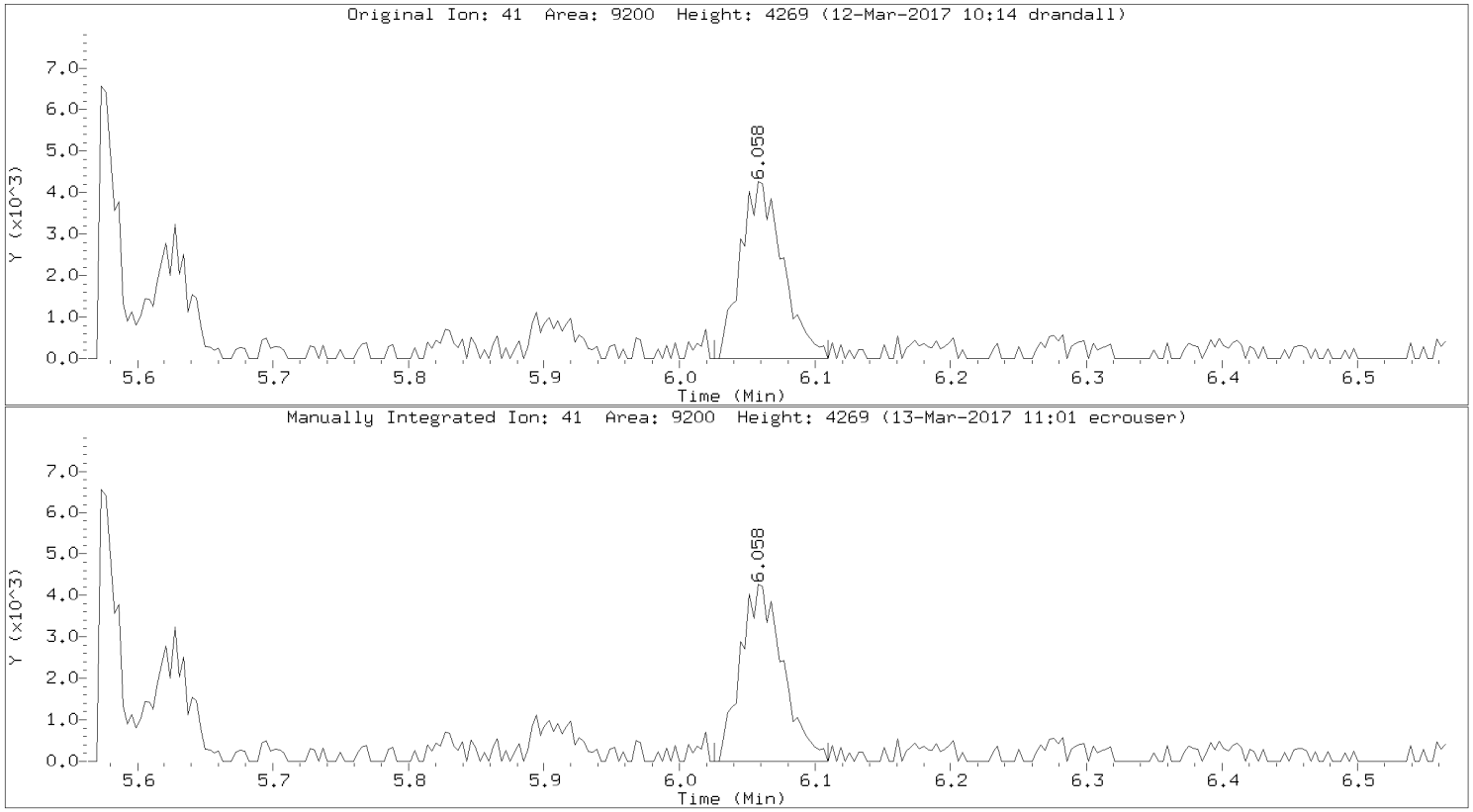








Data File: \\192.168.10.12\chem\10airD.i\031117.b/07016.d
Injection Date: 11-MAR-2017 18:50
Instrument: 10airD.i
Lab Sample ID: 10380372013



Data File: \\192.168.10.12\chem\10airD.i\031317.b\07220.d
Report Date: 13-Mar-2017 17:56

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031317.b\07220.d
Lab Smp Id: 10380372013
Inj Date : 13-MAR-2017 17:03
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Meth Date : 13-Mar-2017 13:35 ecrouser Quant Type: ISTD
Cal Date : 13-MAR-2017 09:58 Cal File: 07205.d
Als bottle: 20
Dil Factor: 5.67300
Integrator: HP RTE Compound Sublist: MeCl.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	5.673	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	25 Methylene chloride	49	2.861	2.865	(0.676)	2148012	81.7181	464
	34 n-Hexane	57	3.343	3.343	(0.789)	475507	15.4007	87.4(Q)
*	47 1,4-Difluorobenzene	114	4.235	4.238	(1.000)	2653172	10.0000	
*	67 Chlorobenzene - d5	117	7.023	7.027	(1.000)	1796741	10.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07220.d
Report Date: 13-Mar-2017 17:56

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07220.d
Lab Smp Id: 10380372013
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Misc Info: 27878

Calibration Date: 13-MAR-2017
Calibration Time: 11:34
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

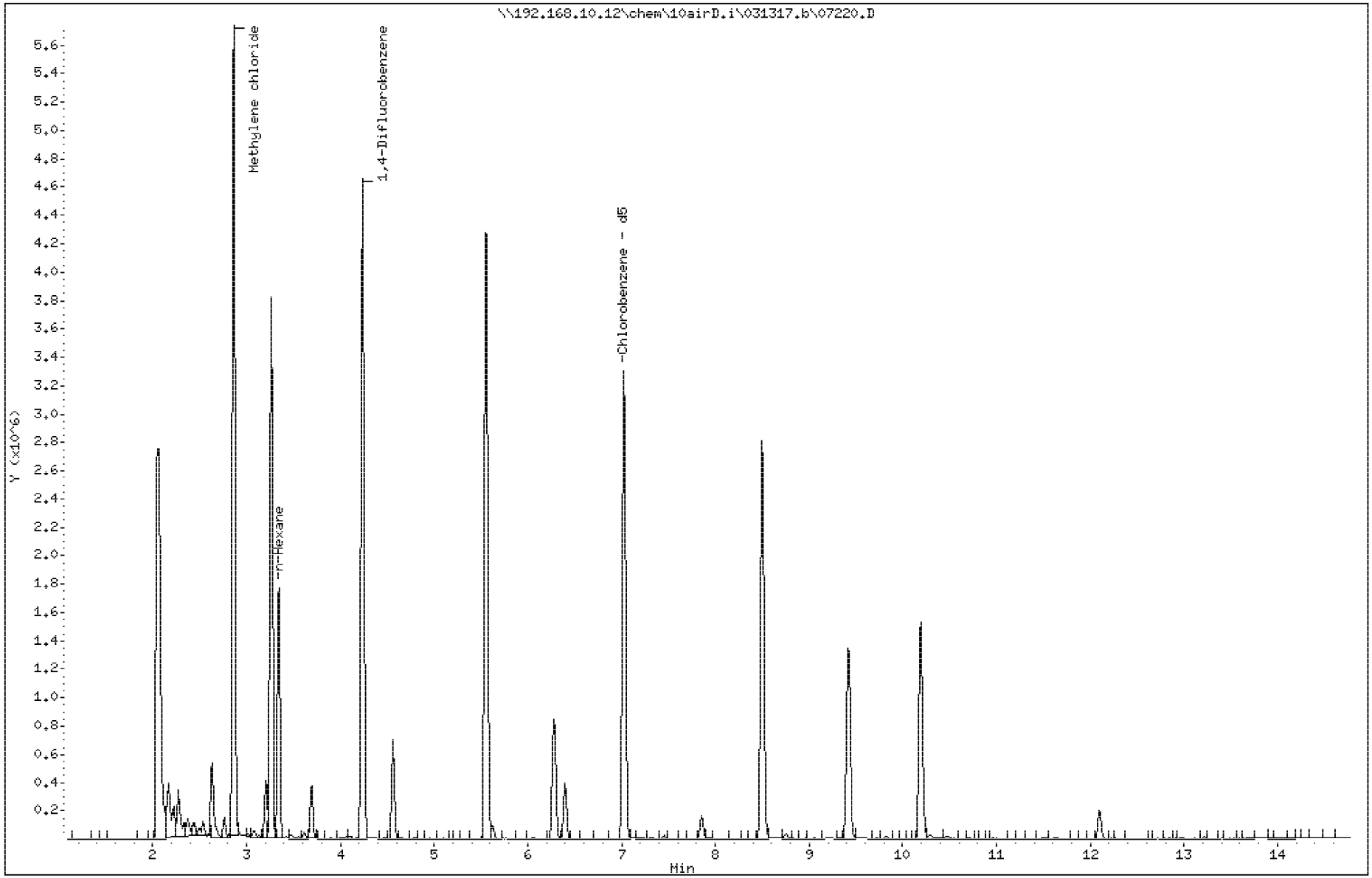
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2916193	1749716	4082670	2653172	-9.02
67 Chlorobenzene - d	2134582	1280749	2988415	1796741	-15.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.30
67 Chlorobenzene - d	7.03	6.70	7.36	7.02	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07220.D
Date : 13-MAR-2017 17:03
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031317.b\07220.D

Date : 13-MAR-2017 17:03

Client ID:

Instrument: 10airD.i

Sample Info:

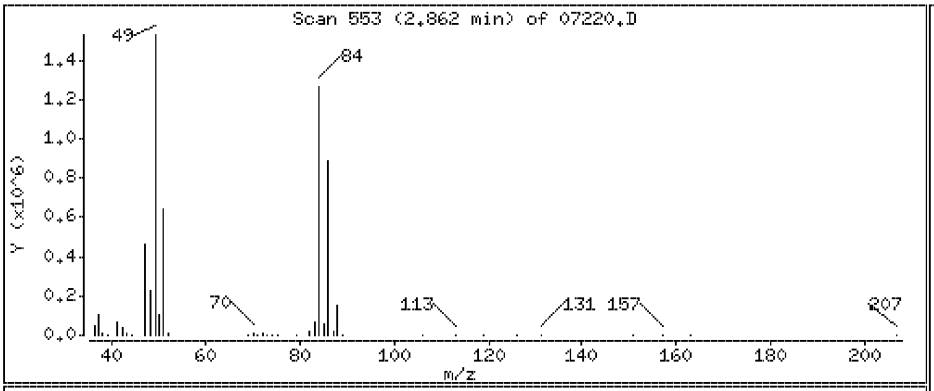
Operator: EMC

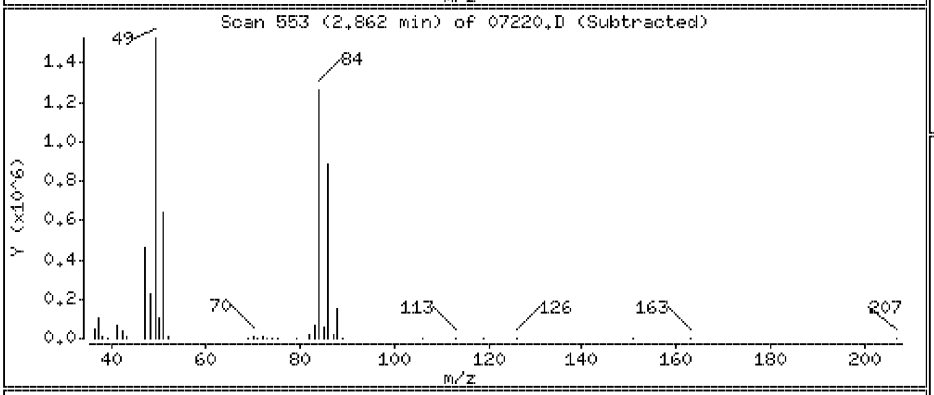
Column phase: J&W DB-5

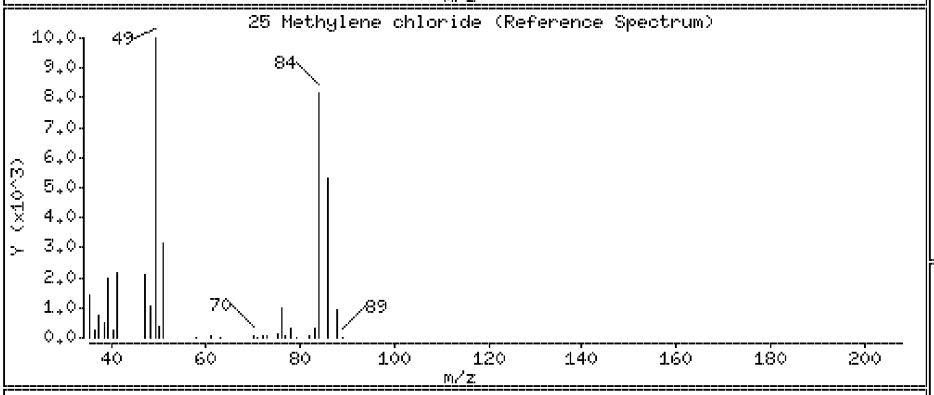
Column diameter: 0.32

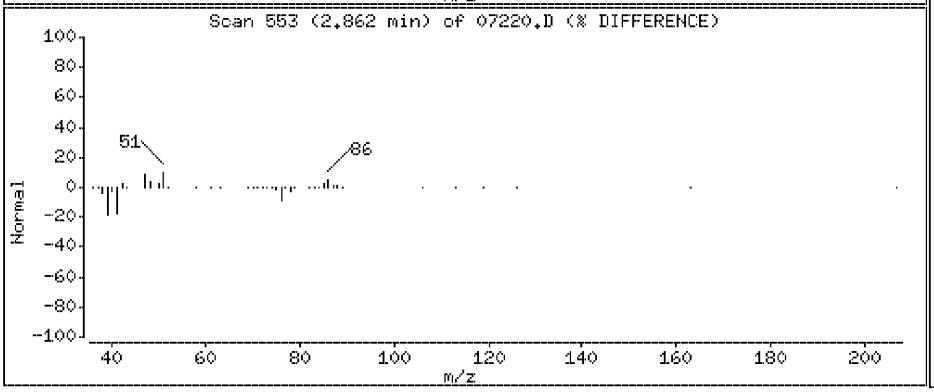
25 Methylene chloride

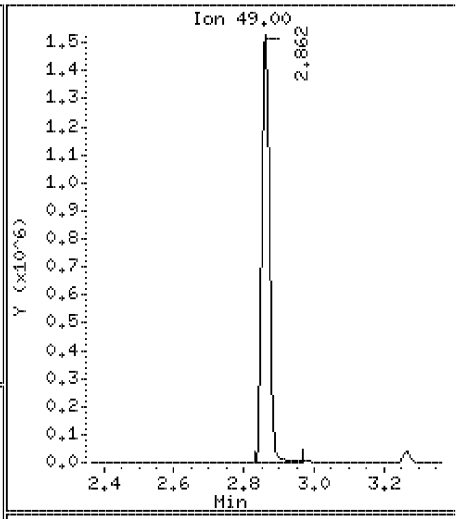
Concentration: 464 ppbv

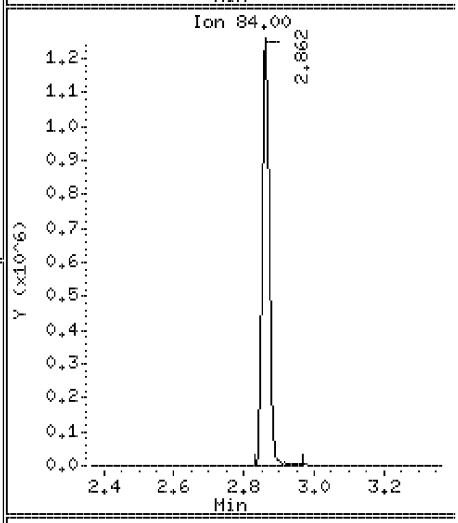


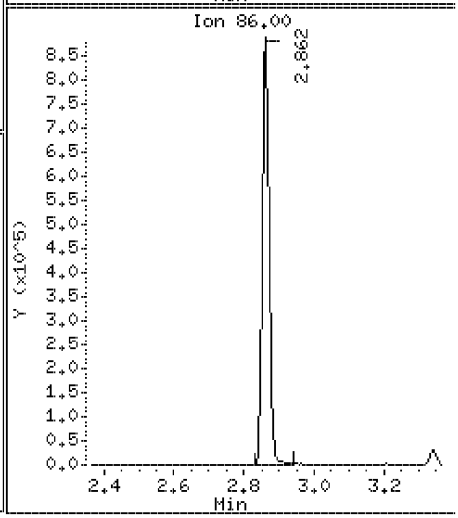












Data File: \\192.168.10.12\chem\10airD.i\031317.b\07220.D

Date : 13-MAR-2017 17:03

Client ID:

Instrument: 10airD.i

Sample Info:

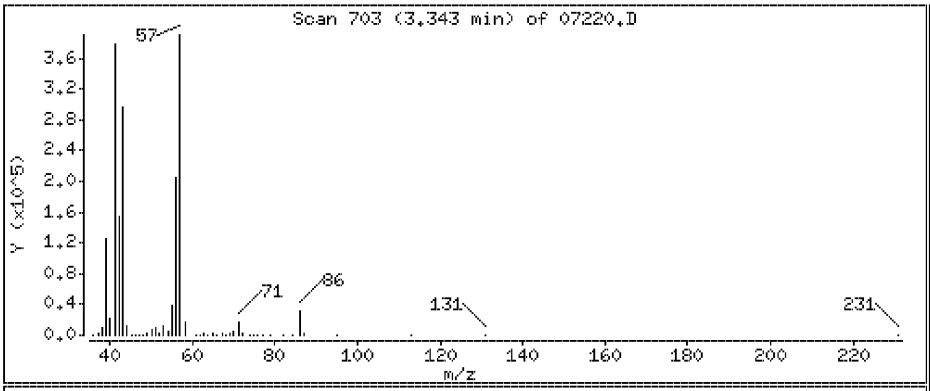
Operator: EMC

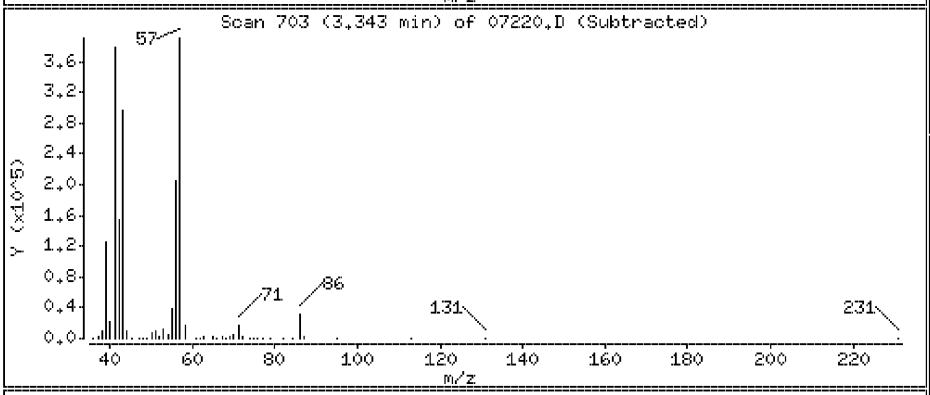
Column phase: J&W DB-5

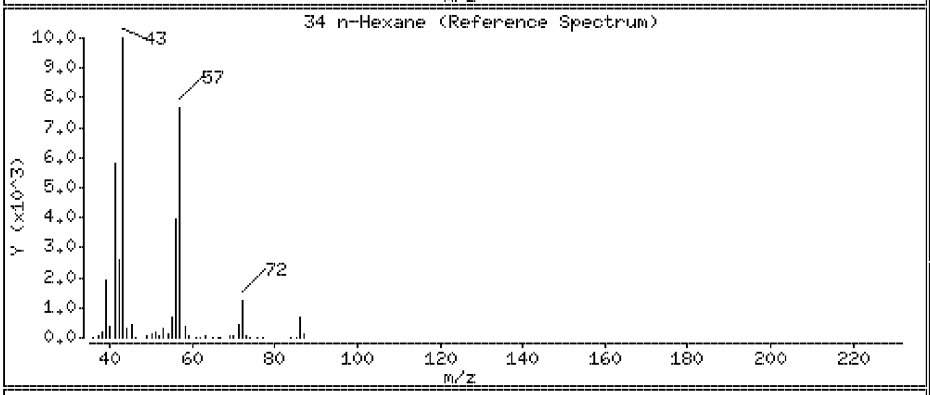
Column diameter: 0.32

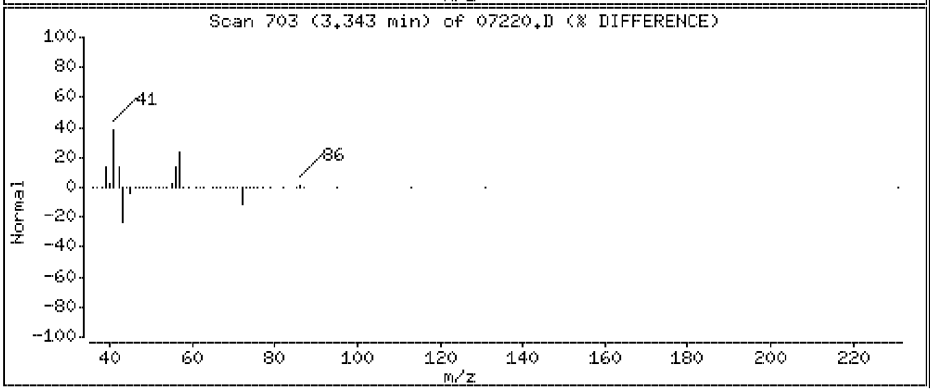
34 n-Hexane

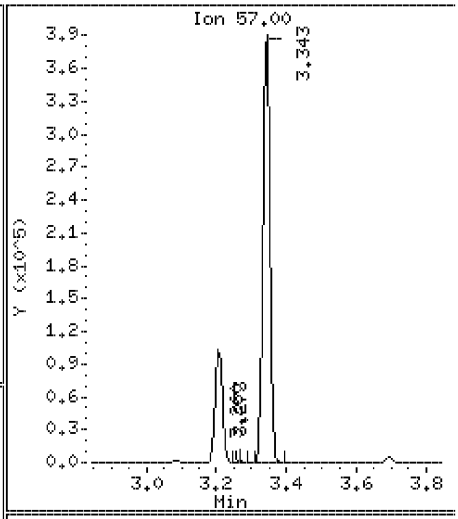
Concentration: 87.4 ppbv

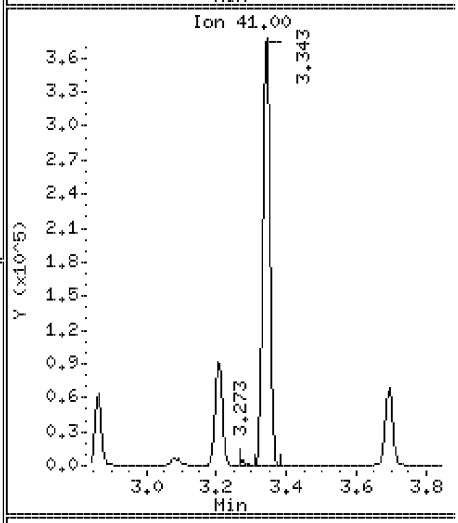


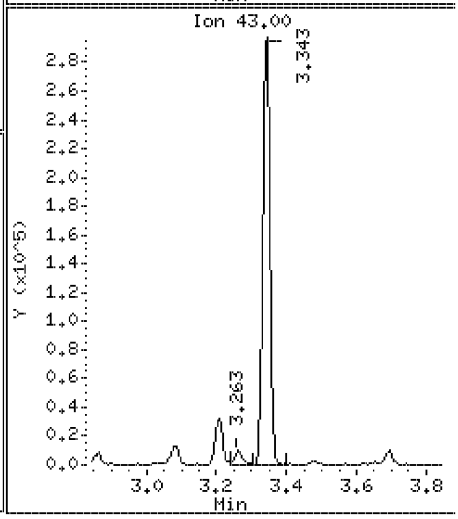












Data File: \\192.168.10.12\chem\10airD.i\031317.b/07220.d
Injection Date: 13-MAR-2017 17:03
Instrument: 10airD.i
Lab Sample ID: 10380372013
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_61.5_20170226 **Lab ID: 10380372013** Collected: 02/26/17 12:26 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**0.51U**	ug/m3	5.3	0.51	2.12		03/11/17 18:50	67-63-0	
Styrene	**0.41U**	ug/m3	1.8	0.41	2.12		03/11/17 18:50	100-42-5	
1,1,2,2-Tetrachloroethane	**1.5J**	ug/m3	1.5	0.70	2.12		03/11/17 18:50	79-34-5	
Tetrachloroethene	**126**	ug/m3	1.5	0.59	2.12		03/11/17 18:50	127-18-4	
Toluene	**18.4**	ug/m3	1.6	0.33	2.12		03/11/17 18:50	108-88-3	
1,2,4-Trichlorobenzene	**1.9U**	ug/m3	8.0	1.9	2.12		03/11/17 18:50	120-82-1	
1,1,1-Trichloroethane	**0.52U**	ug/m3	2.4	0.52	2.12		03/11/17 18:50	71-55-6	
1,1,2-Trichloroethane	**0.52U**	ug/m3	1.2	0.52	2.12		03/11/17 18:50	79-00-5	
Trichloroethene	**194**	ug/m3	1.2	0.59	2.12		03/11/17 18:50	79-01-6	
Trichlorofluoromethane	**4.8**	ug/m3	2.4	0.28	2.12		03/11/17 18:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	**5.6**	ug/m3	3.4	0.64	2.12		03/11/17 18:50	76-13-1	
1,2,4-Trimethylbenzene	**4.4**	ug/m3	2.1	0.26	2.12		03/11/17 18:50	95-63-6	
1,3,5-Trimethylbenzene	**2.1J**	ug/m3	2.1	0.39	2.12		03/11/17 18:50	108-67-8	
Vinyl chloride	**0.41U**	ug/m3	0.55	0.41	2.12		03/11/17 18:50	75-01-4	
m&p-Xylene	**7.4**	ug/m3	3.8	1.7	2.12		03/11/17 18:50	179601-23-1	
o-Xylene	**3.3**	ug/m3	1.9	0.74	2.12		03/11/17 18:50	95-47-6	

Sample: VP-103_74.5_20170226 **Lab ID: 10380372014** Collected: 02/26/17 12:08 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**96.6**	ug/m3	14.2	2.0	2.35		03/11/17 21:23	67-64-1	
Allyl chloride	**0.53U**	ug/m3	3.7	0.53	2.35		03/11/17 21:23	107-05-1	
Benzene	**4.0**	ug/m3	0.76	0.29	2.35		03/11/17 21:23	71-43-2	
Bromodichloromethane	**0.46U**	ug/m3	3.2	0.46	2.35		03/11/17 21:23	75-27-4	
Bromoform	**2.1U**	ug/m3	12.3	2.1	2.35		03/11/17 21:23	75-25-2	
Bromomethane	**0.73U**	ug/m3	1.9	0.73	2.35		03/11/17 21:23	74-83-9	
1,3-Butadiene	**0.41U**	ug/m3	1.1	0.41	2.35		03/11/17 21:23	106-99-0	
2-Butanone (MEK)	**2.6J**	ug/m3	7.0	0.54	2.35		03/11/17 21:23	78-93-3	
Carbon disulfide	**0.24U**	ug/m3	1.5	0.24	2.35		03/11/17 21:23	75-15-0	
Carbon tetrachloride	**2.0**	ug/m3	1.5	0.45	2.35		03/11/17 21:23	56-23-5	CH
Chlorobenzene	**0.31U**	ug/m3	2.2	0.31	2.35		03/11/17 21:23	108-90-7	
Chlorodifluoromethane	**0.65U**	ug/m3	1.7	0.65	2.35		03/11/17 21:23	75-45-6	
Chloroethane	**0.46U**	ug/m3	1.3	0.46	2.35		03/11/17 21:23	75-00-3	
Chloroform	**0.45U**	ug/m3	1.2	0.45	2.35		03/11/17 21:23	67-66-3	
Chloromethane	**3.2**	ug/m3	0.99	0.25	2.35		03/11/17 21:23	74-87-3	
Chloropentafluoroethane	**7.5U**	ug/m3	7.5	7.5	2.35		03/11/17 21:23	76-15-3	CL
Cyclohexane	**3.0**	ug/m3	1.6	0.74	2.35		03/11/17 21:23	110-82-7	
1,2-Dibromo-3-chloropropane	**11.5U**	ug/m3	11.5	11.5	2.35		03/11/17 21:23	96-12-8	
Dibromochloromethane	**2.0U**	ug/m3	4.1	2.0	2.35		03/11/17 21:23	124-48-1	
1,2-Dibromoethane (EDB)	**1.8U**	ug/m3	3.7	1.8	2.35		03/11/17 21:23	106-93-4	
1,2-Dichlorobenzene	**1.2U**	ug/m3	2.9	1.2	2.35		03/11/17 21:23	95-50-1	
1,3-Dichlorobenzene	**1.2U**	ug/m3	2.9	1.2	2.35		03/11/17 21:23	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_74.5_20170226 **Lab ID: 10380372014** Collected: 02/26/17 12:08 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**1.2U**	ug/m3	2.9	1.2	2.35		03/11/17 21:23	106-46-7	
Dichlorodifluoromethane	**7.6**	ug/m3	2.4	1.1	2.35		03/11/17 21:23	75-71-8	
1,1-Dichloroethane	**0.37U**	ug/m3	1.9	0.37	2.35		03/11/17 21:23	75-34-3	
1,2-Dichloroethane	**0.48U**	ug/m3	0.96	0.48	2.35		03/11/17 21:23	107-06-2	
1,1-Dichloroethene	**0.56U**	ug/m3	1.9	0.56	2.35		03/11/17 21:23	75-35-4	
cis-1,2-Dichloroethene	**0.58U**	ug/m3	1.9	0.58	2.35		03/11/17 21:23	156-59-2	
trans-1,2-Dichloroethene	**0.90U**	ug/m3	1.9	0.90	2.35		03/11/17 21:23	156-60-5	
1,2-Dichloropropane	**0.63U**	ug/m3	2.2	0.63	2.35		03/11/17 21:23	78-87-5	
cis-1,3-Dichloropropene	**0.87U**	ug/m3	2.2	0.87	2.35		03/11/17 21:23	10061-01-5	
trans-1,3-Dichloropropene	**0.61U**	ug/m3	2.2	0.61	2.35		03/11/17 21:23	10061-02-6	
Dichlorotetrafluoroethane	**0.73U**	ug/m3	3.3	0.73	2.35		03/11/17 21:23	76-14-2	
Freon 123	**7.5U**	ug/m3	7.5	7.5	2.35		03/11/17 21:23	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.83U**	ug/m3	8.6	0.83	2.35		03/11/17 21:23	123-91-1	
Ethylbenzene	**2.9**	ug/m3	2.1	1.0	2.35		03/11/17 21:23	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	2.4	0.44	2.35		03/11/17 21:23	622-96-8	
Hexachloro-1,3-butadiene	**1.5U**	ug/m3	5.1	1.5	2.35		03/11/17 21:23	87-68-3	
n-Hexane	**77.1**	ug/m3	1.7	0.84	2.35		03/11/17 21:23	110-54-3	
2-Hexanone	**0.96U**	ug/m3	9.8	0.96	2.35		03/11/17 21:23	591-78-6	
Isopropylbenzene (Cumene)	**0.32U**	ug/m3	5.9	0.32	2.35		03/11/17 21:23	98-82-8	
Methyl acetate	**3.6U**	ug/m3	3.6	3.6	2.35		03/11/17 21:23	79-20-9	
Methylcyclohexane	**0.57U**	ug/m3	1.9	0.57	2.35		03/11/17 21:23	108-87-2	
Methylene Chloride	**268**	ug/m3	222	34.1	62.85		03/12/17 16:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.51U**	ug/m3	9.8	0.51	2.35		03/11/17 21:23	108-10-1	
Methyl-tert-butyl ether	**0.71U**	ug/m3	8.6	0.71	2.35		03/11/17 21:23	1634-04-4	
2-Propanol	**12.9**	ug/m3	5.9	0.56	2.35		03/11/17 21:23	67-63-0	
Styrene	**1.1J**	ug/m3	2.0	0.45	2.35		03/11/17 21:23	100-42-5	
1,1,2,2-Tetrachloroethane	**0.77U**	ug/m3	1.6	0.77	2.35		03/11/17 21:23	79-34-5	
Tetrachloroethene	**44.1**	ug/m3	1.6	0.65	2.35		03/11/17 21:23	127-18-4	
Toluene	**37.0**	ug/m3	1.8	0.36	2.35		03/11/17 21:23	108-88-3	
1,2,4-Trichlorobenzene	**2.1U**	ug/m3	8.9	2.1	2.35		03/11/17 21:23	120-82-1	
1,1,1-Trichloroethane	**0.58U**	ug/m3	2.6	0.58	2.35		03/11/17 21:23	71-55-6	
1,1,2-Trichloroethane	**0.58U**	ug/m3	1.3	0.58	2.35		03/11/17 21:23	79-00-5	
Trichloroethene	**66.4**	ug/m3	1.3	0.65	2.35		03/11/17 21:23	79-01-6	
Trichlorofluoromethane	**4.7**	ug/m3	2.7	0.31	2.35		03/11/17 21:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.0J**	ug/m3	3.8	0.71	2.35		03/11/17 21:23	76-13-1	
1,2,4-Trimethylbenzene	**4.7**	ug/m3	2.3	0.29	2.35		03/11/17 21:23	95-63-6	
1,3,5-Trimethylbenzene	**1.7J**	ug/m3	2.3	0.43	2.35		03/11/17 21:23	108-67-8	
Vinyl chloride	**0.46U**	ug/m3	0.61	0.46	2.35		03/11/17 21:23	75-01-4	
m&p-Xylene	**10.2**	ug/m3	4.2	1.8	2.35		03/11/17 21:23	179601-23-1	
o-Xylene	**4.1**	ug/m3	2.1	0.82	2.35		03/11/17 21:23	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.d
Report Date: 12-Mar-2017 10:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07022.d
Lab Smp Id: 10380372014
Inj Date : 11-MAR-2017 21:23
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 22
Dil Factor: 2.34500
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.345	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.152	2.165	(0.507)	42240	0.64525	1.51	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	2.219	2.235	(0.523)	19998	0.65138	1.53	
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.505	2.521	(0.591)	47306	10.3484	24.3	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	2.540	2.592	(0.599)	69102	2.42240	5.68(QH)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.601	2.614	(0.613)	24210	0.35352	0.829	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.643	2.653	(0.623)	613117	17.0318	39.9	
19	Isopropyl Alcohol	45	2.678	2.688	(0.632)	51039	2.20045	5.16(QM)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	2.823	2.829	(0.666)	8783	0.16359	0.384(H)	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.d
Report Date: 12-Mar-2017 10:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	3.214	3.192	(0.758)	21572	0.55596	1.30	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.275	(0.771)	1453757	9.19675	9.20(H)	
	33 Methyl Ethyl Ketone	72	3.346	3.359	(0.789)	3547	0.37467	0.879(Q)	
	34 n-Hexane	57	3.349	3.352	(0.790)	313388	9.15582	21.5(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	37 Ethyl Acetate	43	3.487	3.490	(0.822)	7246	0.13231	0.310	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.100	4.100	(0.967)	34643	0.52871	1.24	
	45 Carbon tetrachloride	117	4.116	4.116	(0.970)	6920	0.13174	0.309	
	44 Cyclohexane	56	4.122	4.126	(0.972)	12498	0.36947	0.866(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	2977542	10.0000		
	48 2,2,4-Trimethylpentane	57	4.366	4.376	(1.030)	23579	158.529	372(AQ)	
	49 Heptane	43	4.485	4.491	(1.057)	18138	0.35460	0.832	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	4.565	4.568	(1.076)	186156	5.17575	12.1	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 Bromodichloromethane	83	Compound Not Detected.						(D)
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.563	(1.311)	2803887	9.39780	9.40	
	60 Toluene	91	5.630	5.631	(1.328)	362181	4.11466	9.65	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	6.051	6.051	(0.861)	9785	0.18696	0.438	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.401	6.404	(0.911)	126879	2.72122	6.38	
*	67 Chlorobenzene - d5	117	7.026	7.030	(1.000)	2109062	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.312	7.315	(1.041)	25759	0.27836	0.653	
	70 m&p-Xylene	91	7.450	7.460	(1.060)	80651	0.98204	2.30	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.857	7.858	(1.118)	181158	3.75138	8.80	
	73 Styrene	104	7.864	7.867	(1.119)	4866	0.10366	0.243	
	74 o-Xylene	91	7.928	7.928	(1.128)	30081	0.39429	0.925	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	9.061	9.051	(1.290)	6529	0.06572	0.154	
	78 4-Ethyltoluene	105	9.228	9.228	(1.313)	9673	0.11904	0.279	
	79 1,3,5-Trimethylbenzene	105	9.311	9.318	(1.325)	14017	0.14881	0.349	
	80 n-Decane	57	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.d
Report Date: 12-Mar-2017 10:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.821	9.825	(1.398)	36983	0.39981	0.938	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1160627	8.98182	8.98	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	10.409	10.409	(1.481)	5579	0.08614	0.202	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.963	12.960	(1.845)	4274	0.19339	0.453	(MH)
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.d
Report Date: 12-Mar-2017 10:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07022.d
Lab Smp Id: 10380372014
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

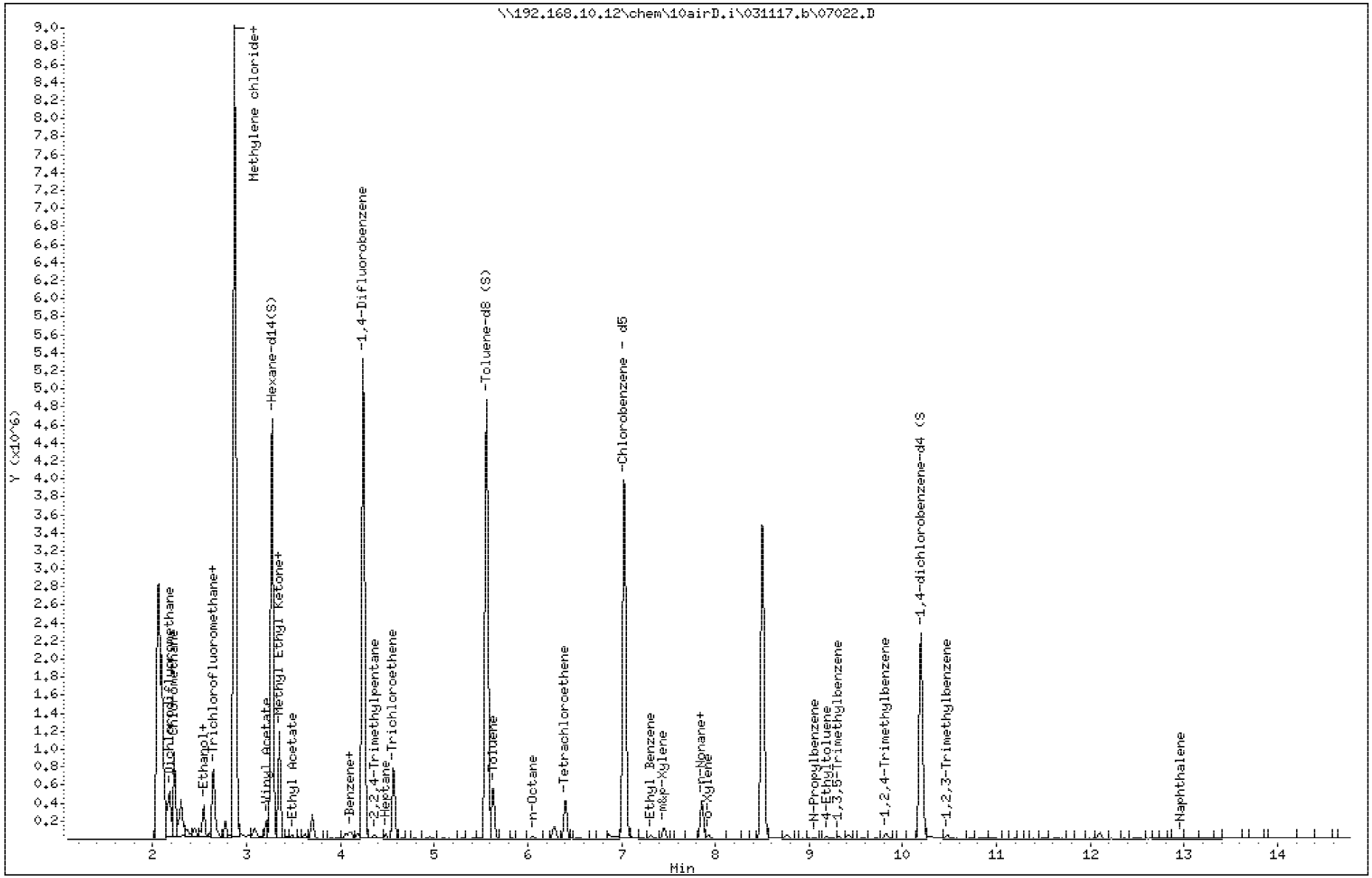
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	2977542	-21.39
67 Chlorobenzene - d	3280875	1968525	4593225	2109062	-35.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D
Date : 11-MAR-2017 21:23
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

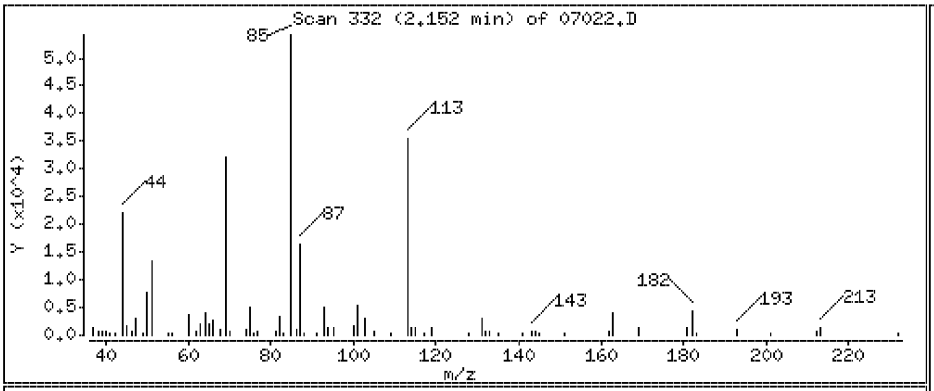
Operator: DR1

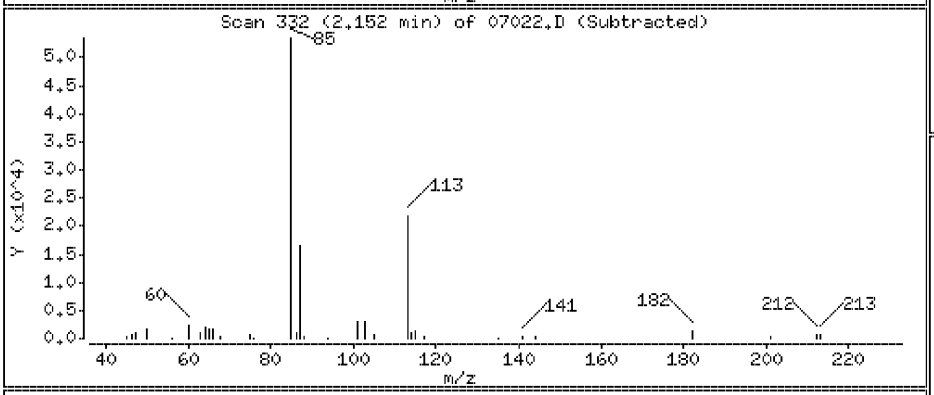
Column phase: J&W DB-5

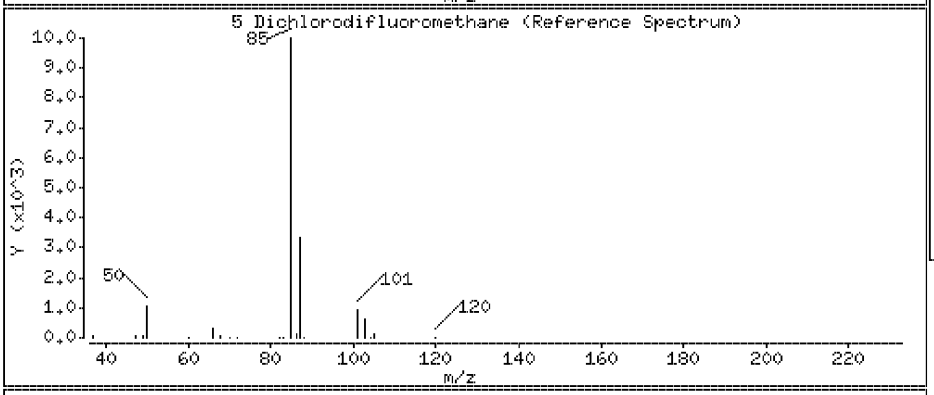
Column diameter: 0.32

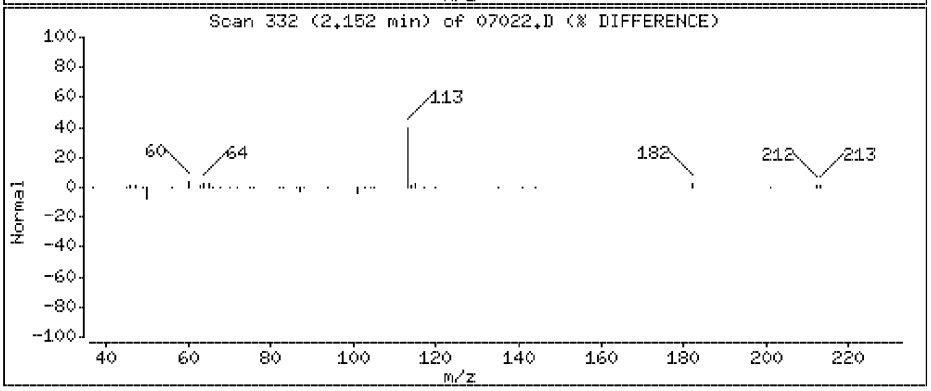
5 Dichlorodifluoromethane

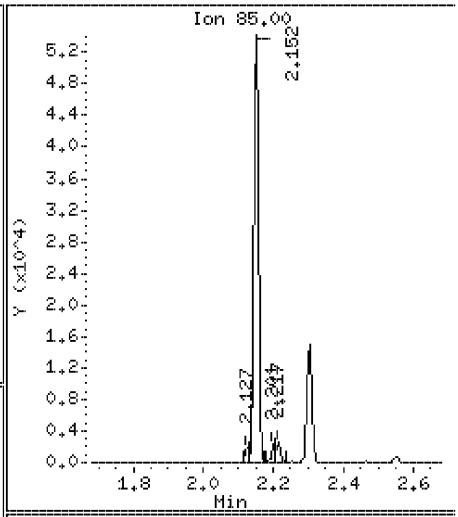
Concentration: 1.51 ppbv

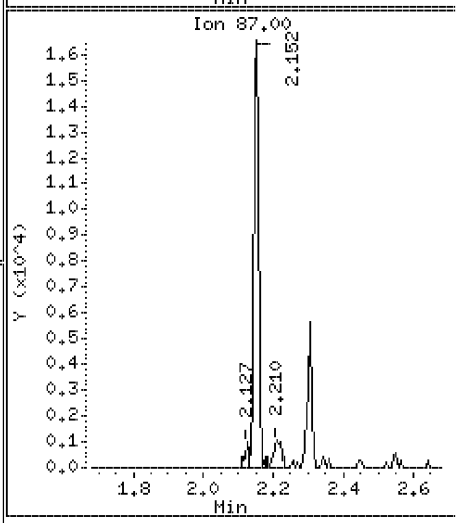












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

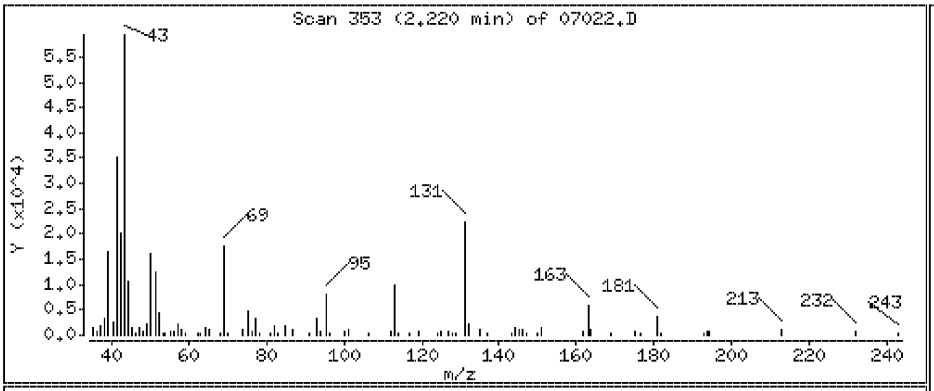
Operator: DR1

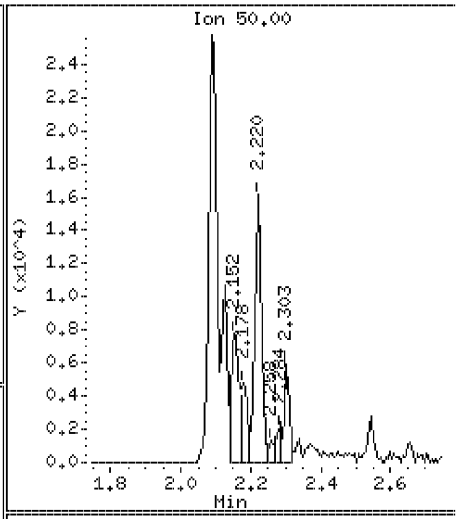
Column phase: J&W DB-5

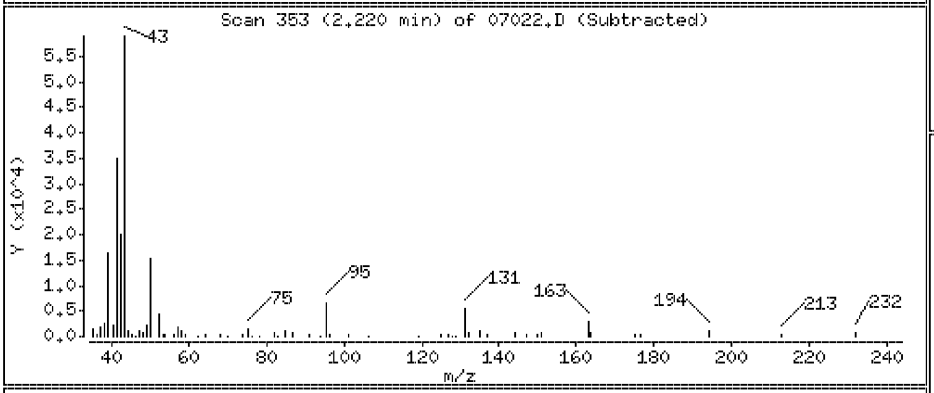
Column diameter: 0.32

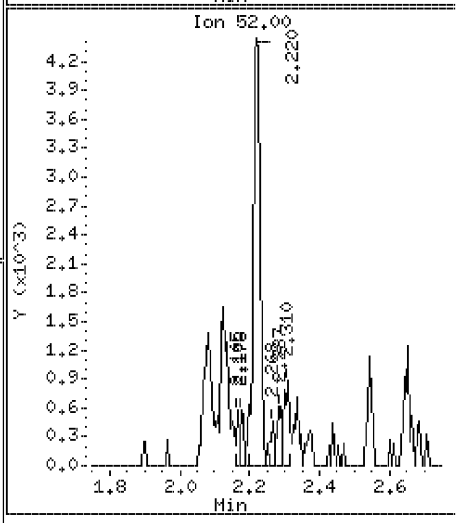
7 Chloromethane

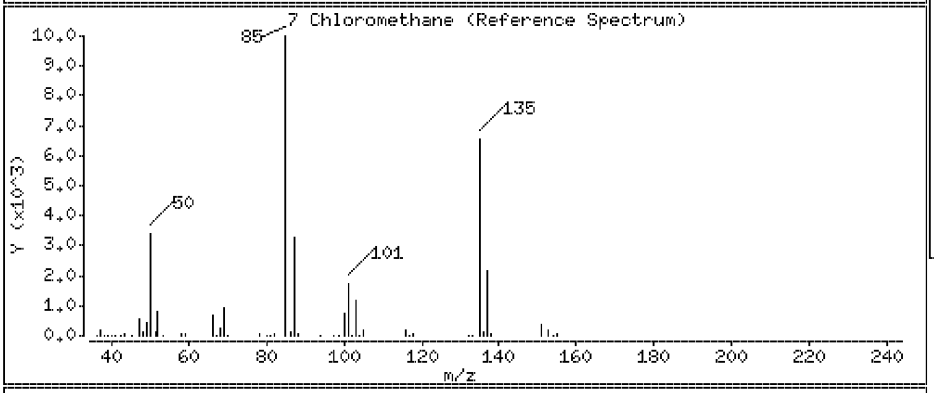
Concentration: 1.53 ppbv

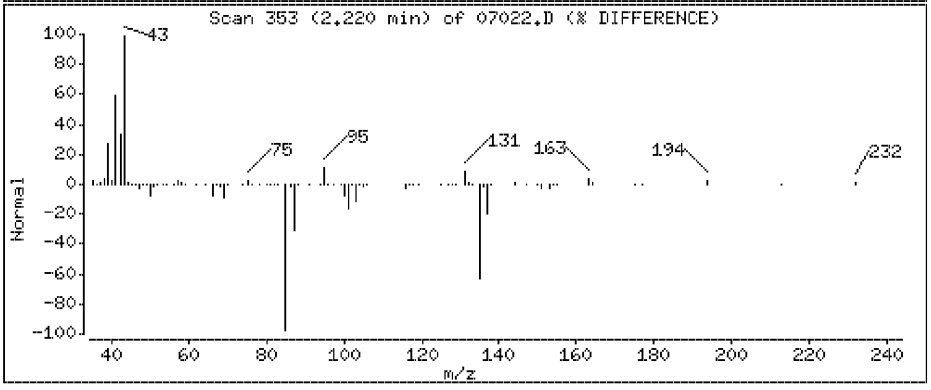












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

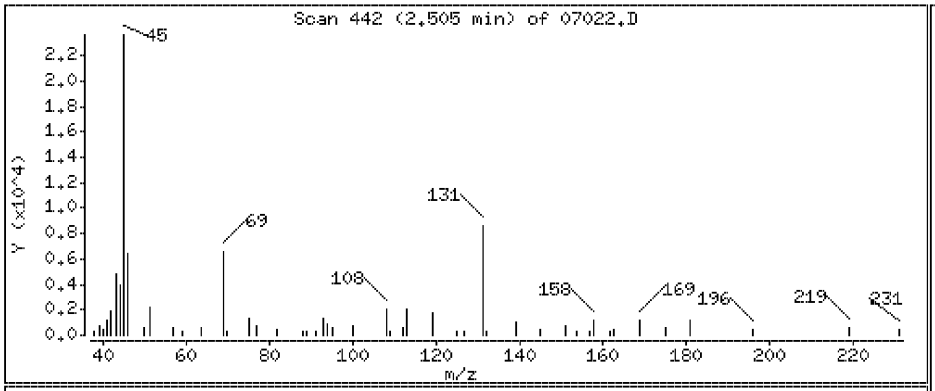
Operator: DR1

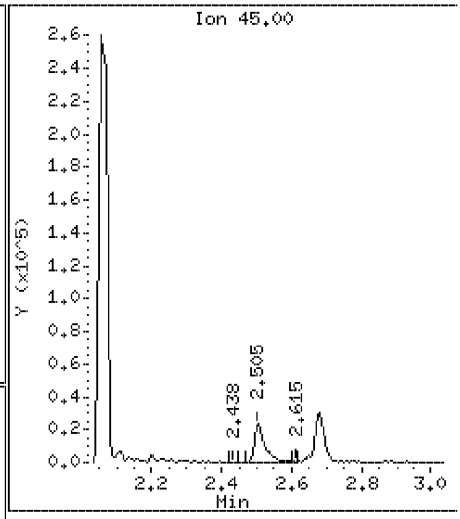
Column phase: J&W DB-5

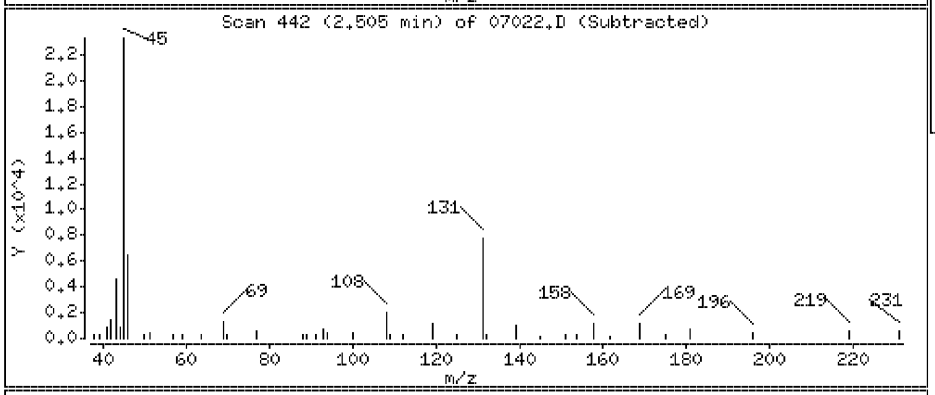
Column diameter: 0.32

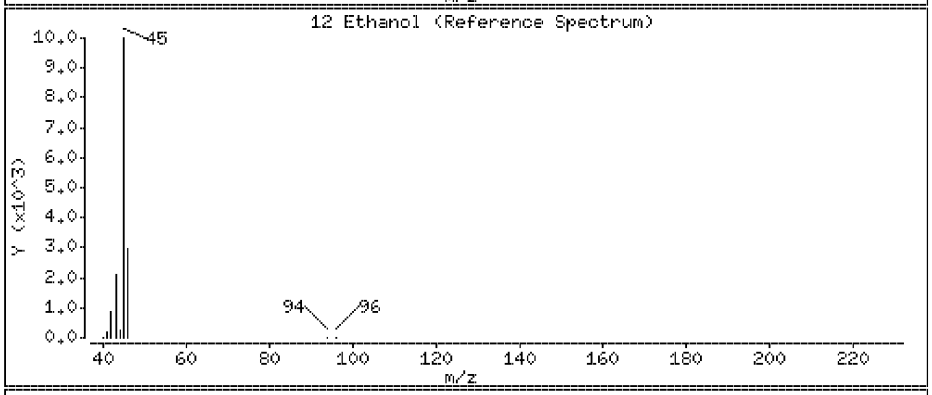
12 Ethanol

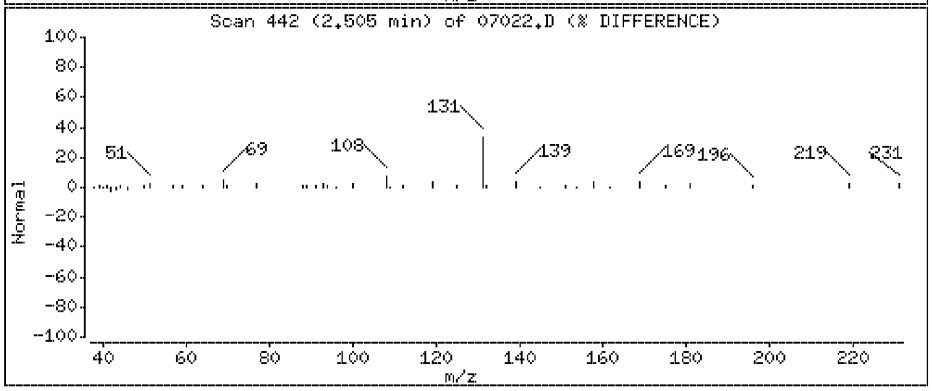
Concentration: 24.3 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

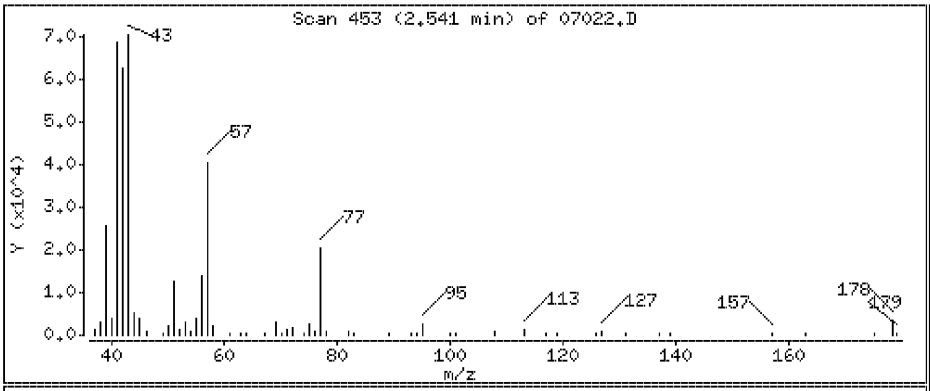
Operator: DR1

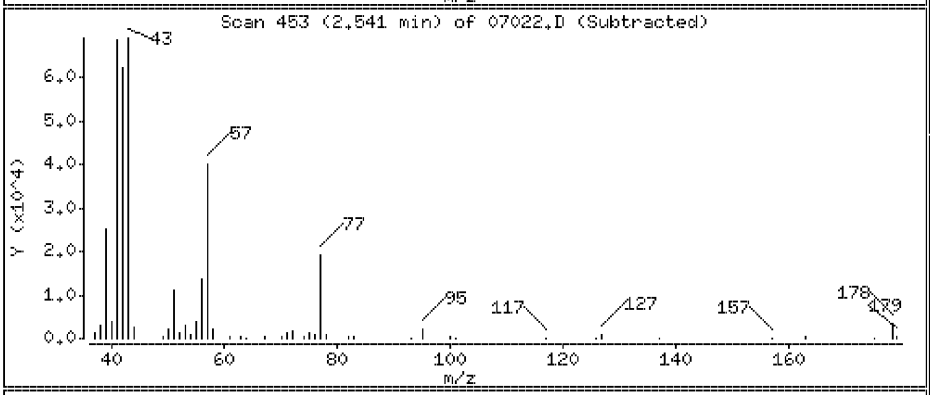
Column phase: J&W DB-5

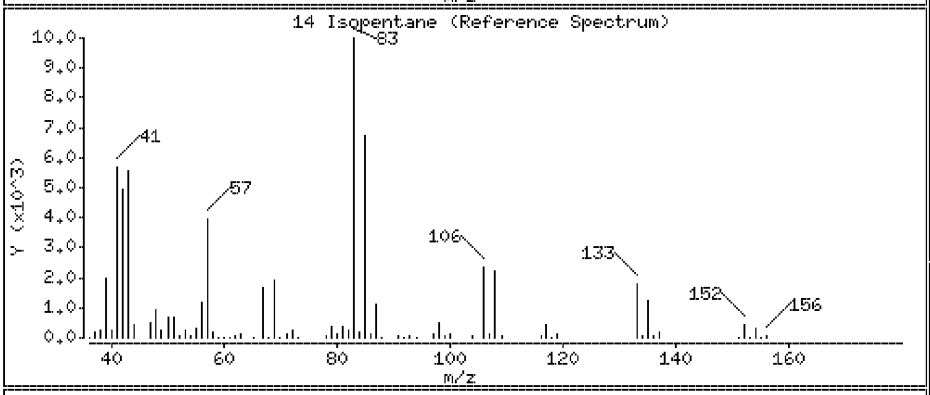
Column diameter: 0.32

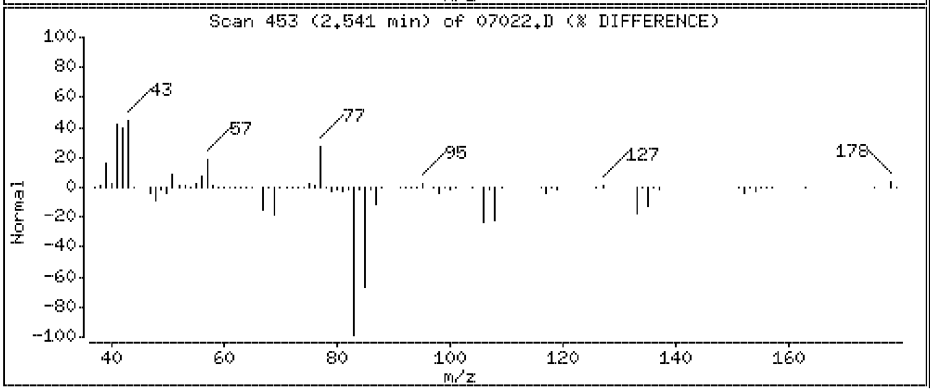
14 Isopentane

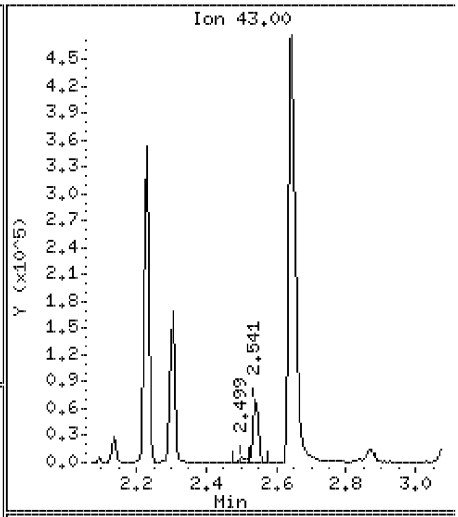
Concentration: 5.68 ppbv

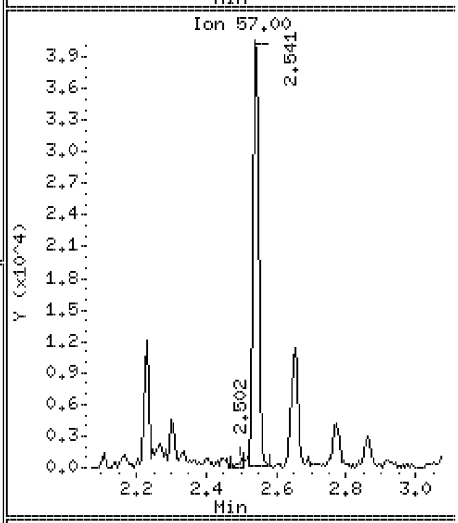


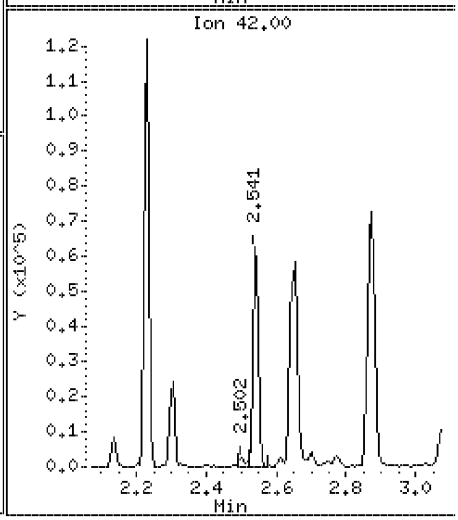












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

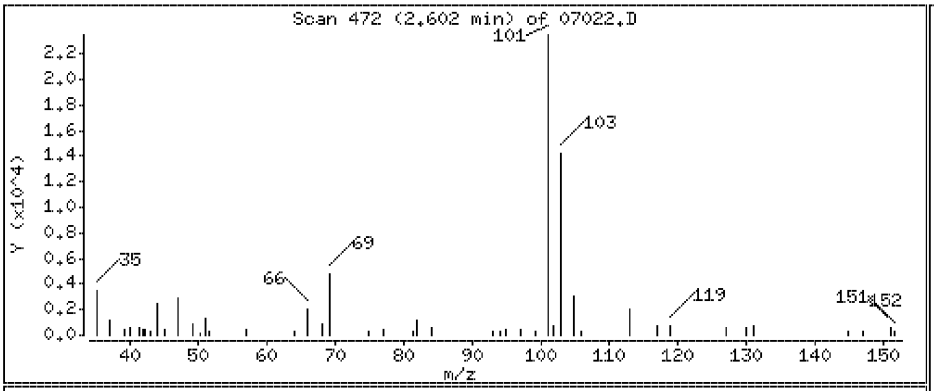
Operator: DR1

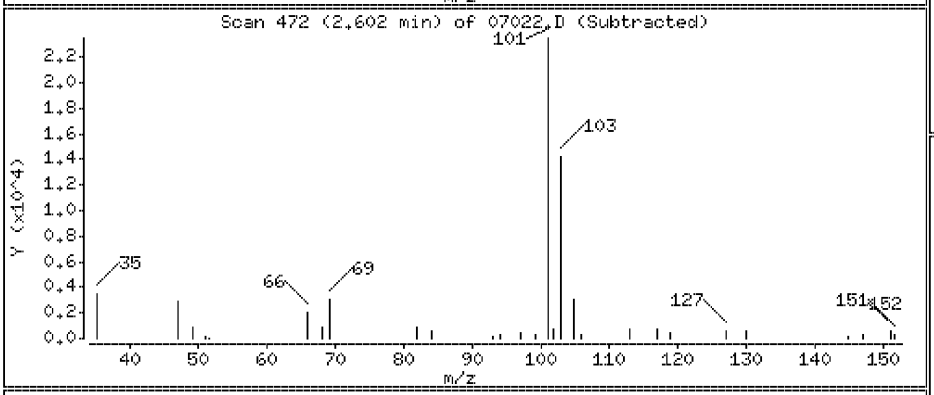
Column phase: J&W DB-5

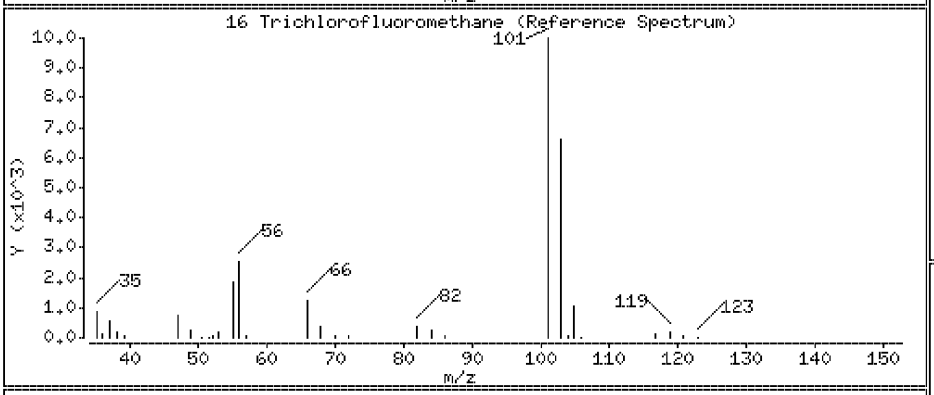
Column diameter: 0.32

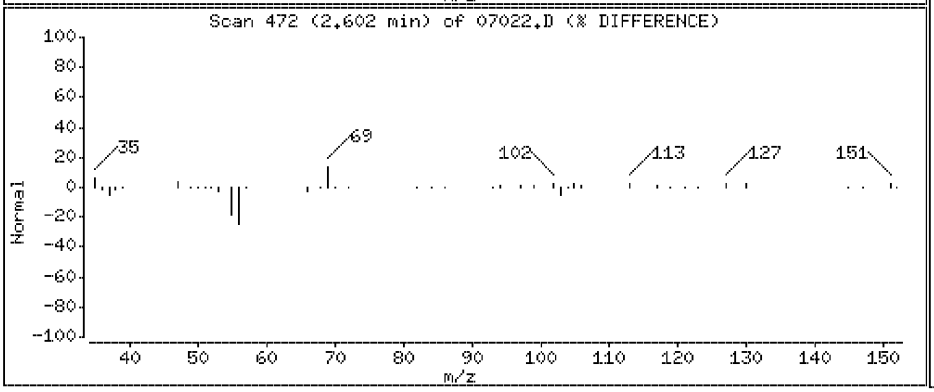
16 Trichlorofluoromethane

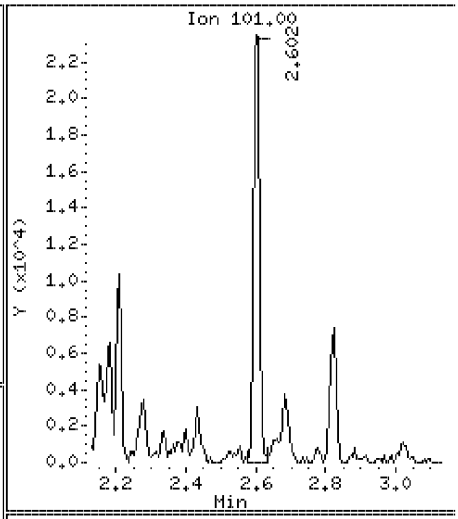
Concentration: 0.829 ppbv

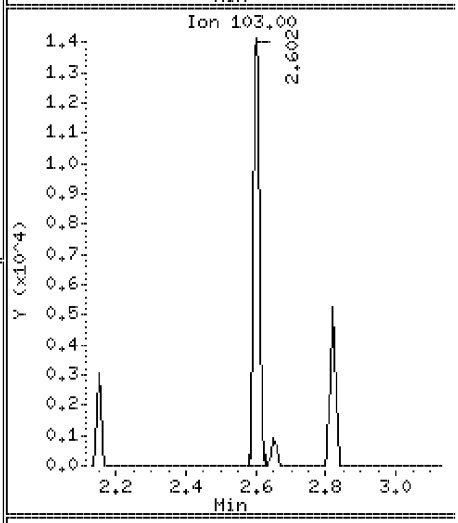


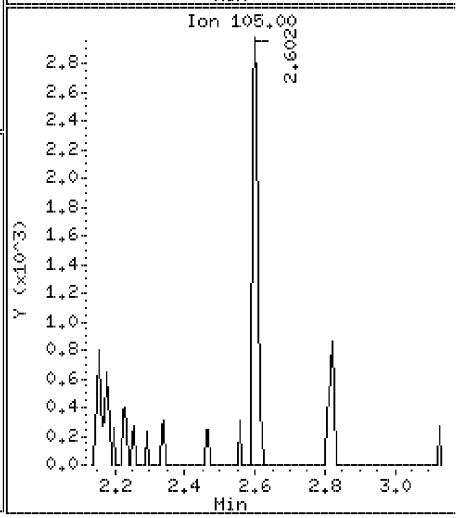












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

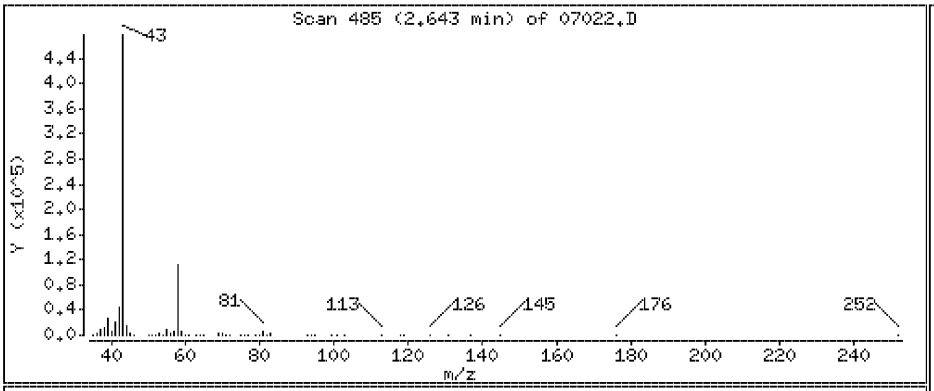
Operator: DR1

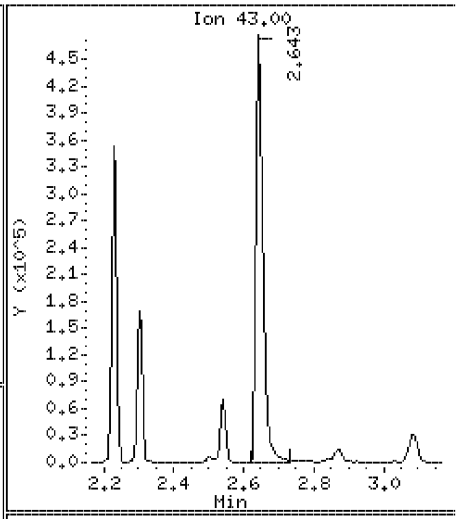
Column phase: J&W DB-5

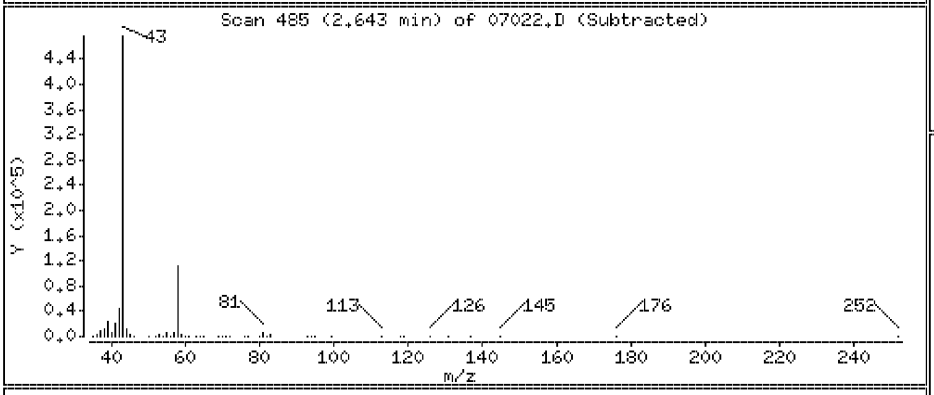
Column diameter: 0.32

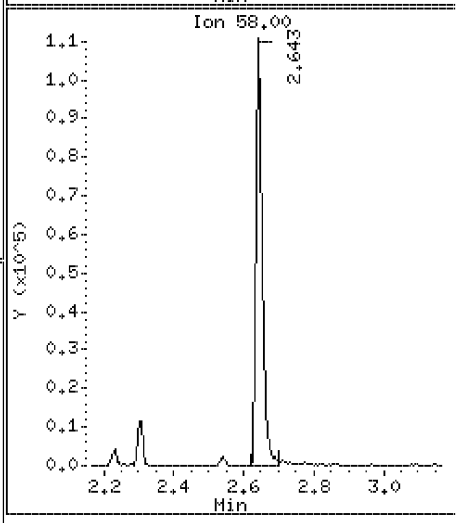
18 Acetone

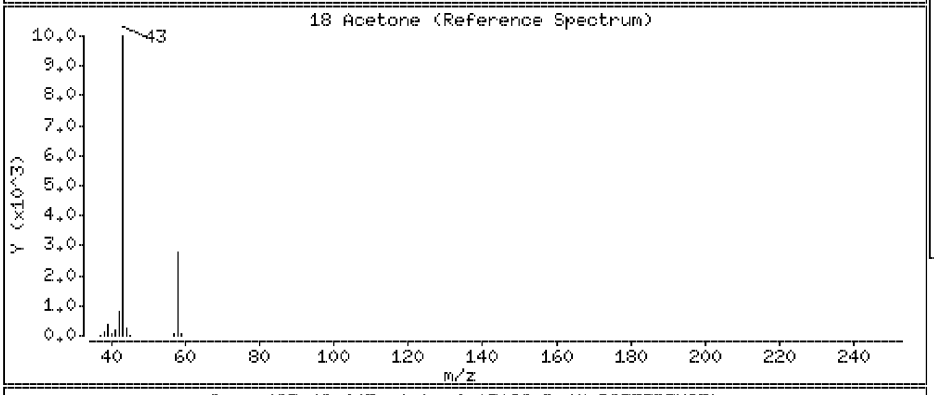
Concentration: 39.9 ppbv

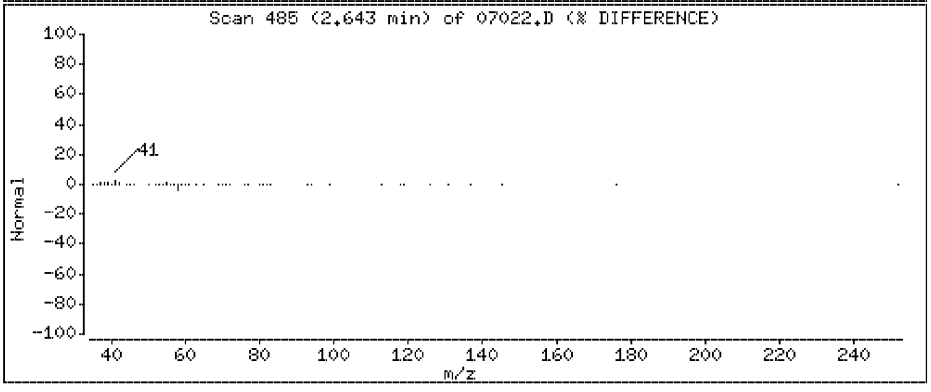












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

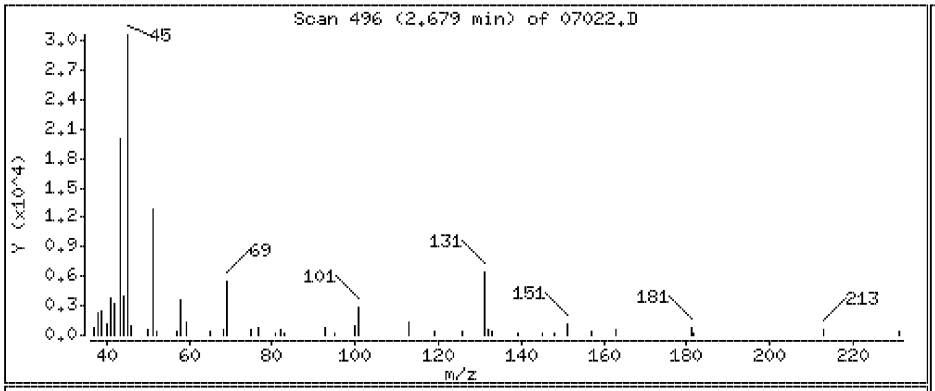
Operator: DR1

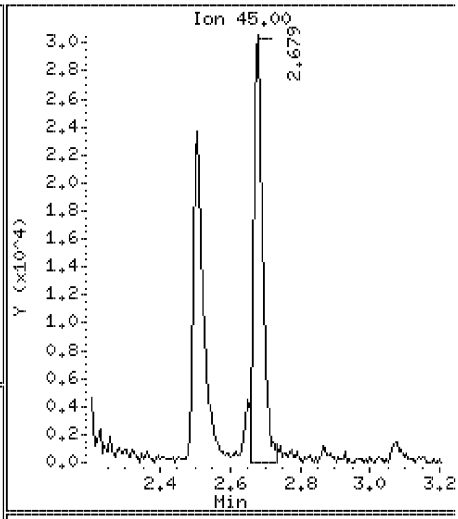
Column phase: J&W DB-5

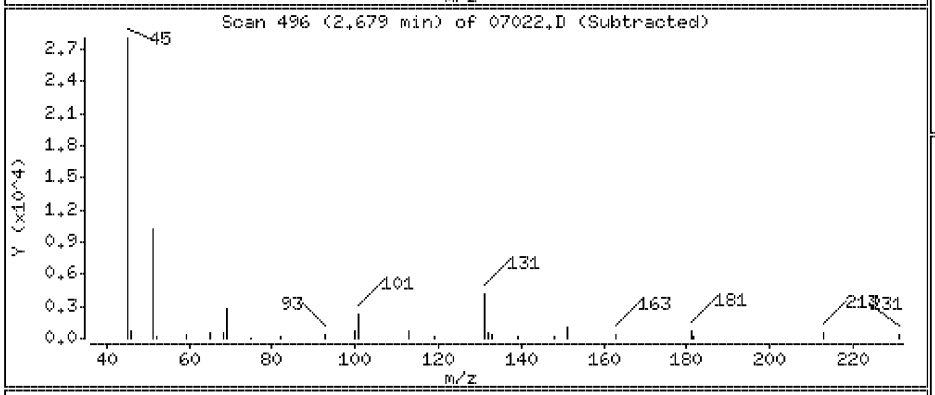
Column diameter: 0.32

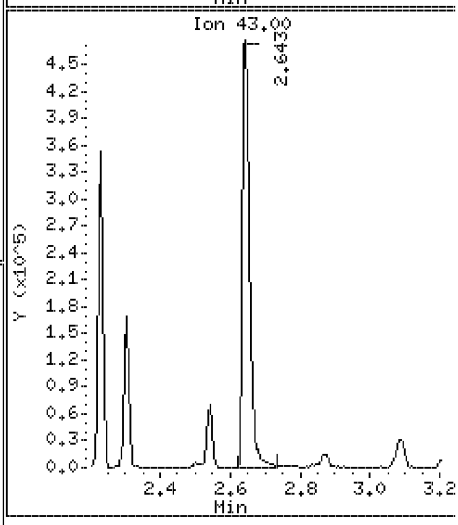
19 Isopropyl Alcohol

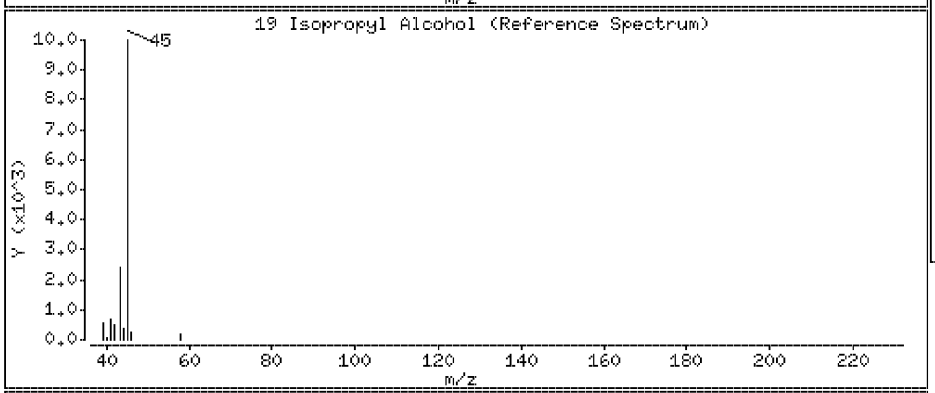
Concentration: 5.16 ppbv

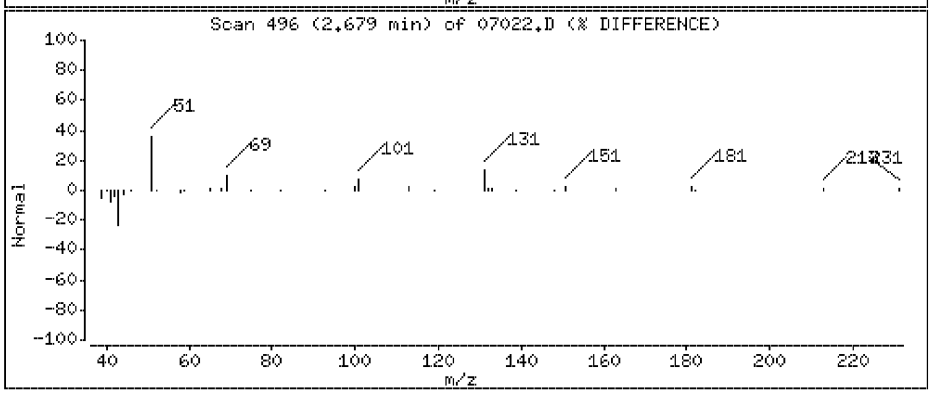












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

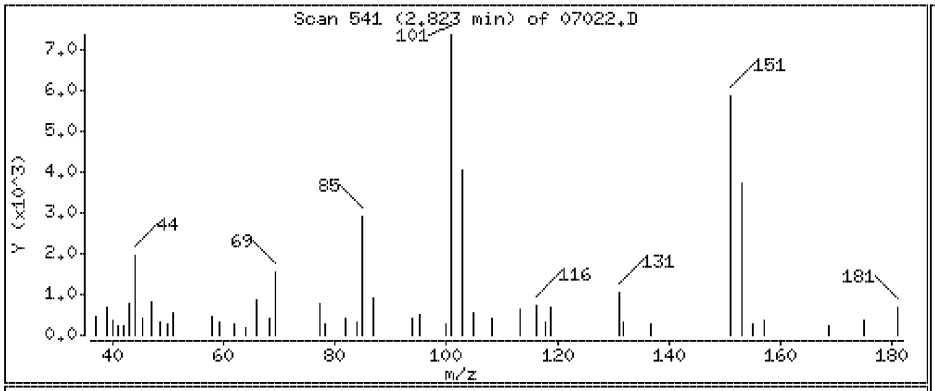
Operator: DR1

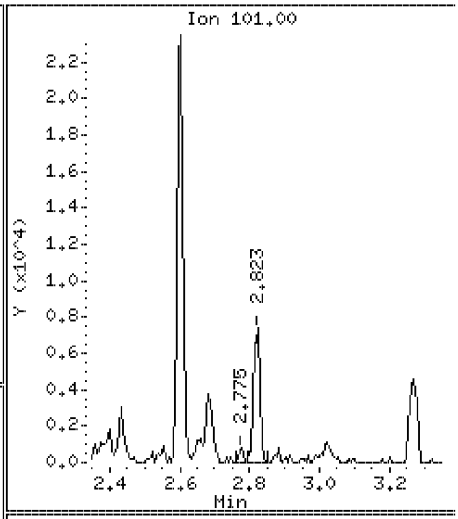
Column phase: J&W DB-5

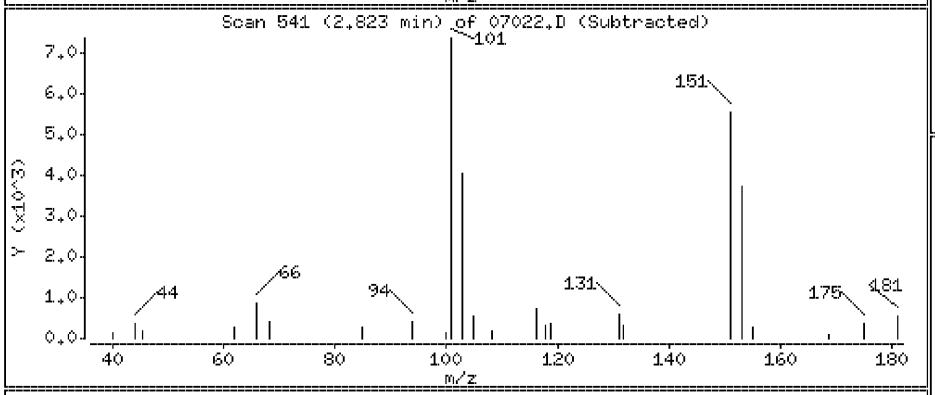
Column diameter: 0.32

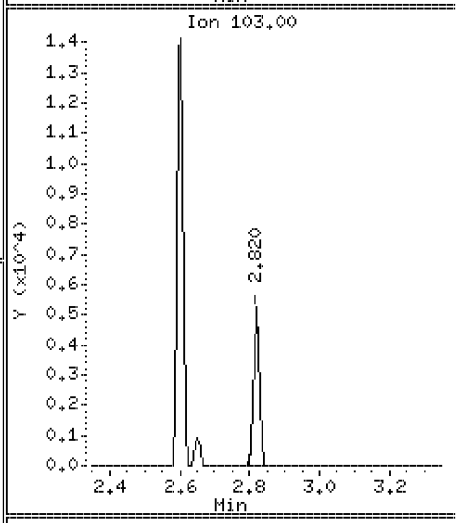
22 Freon 113

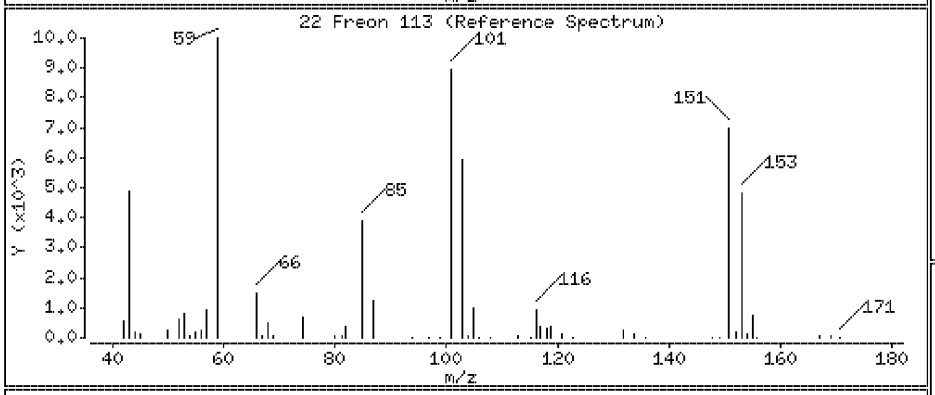
Concentration: 0.384 ppbv

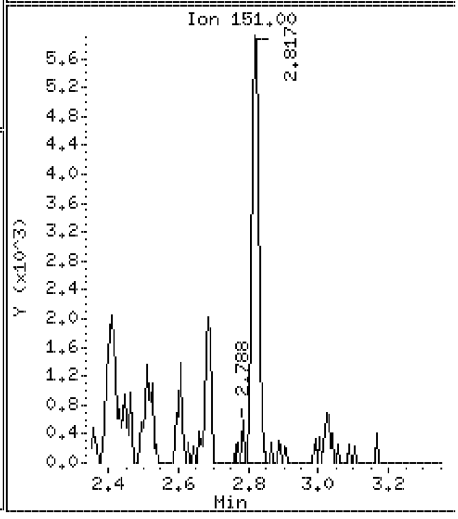


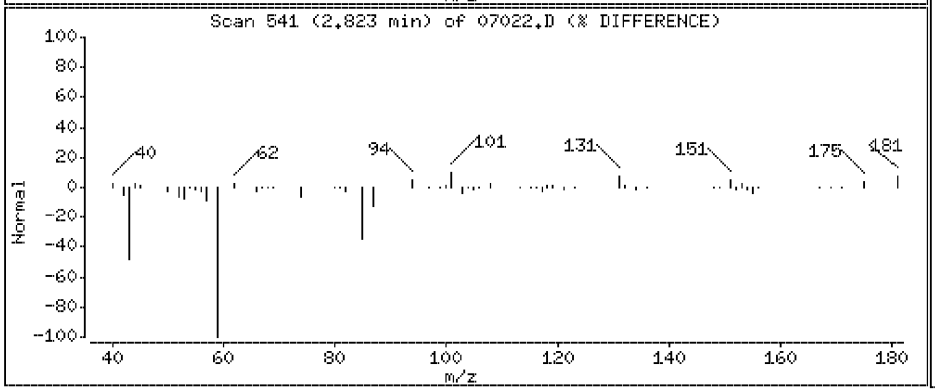












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

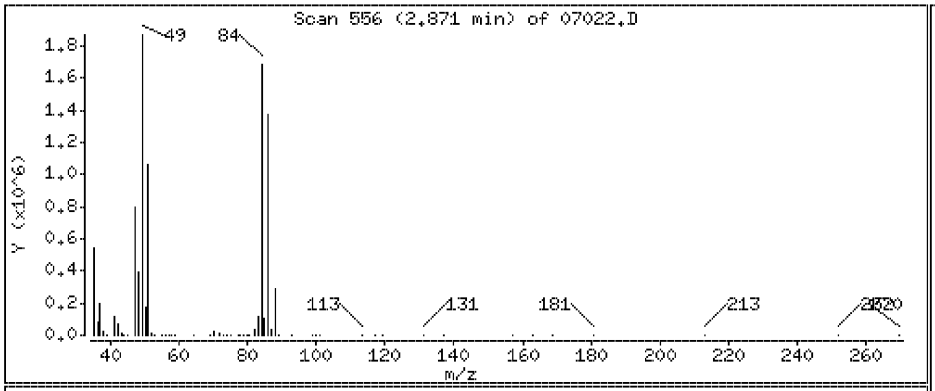
Sample Info:

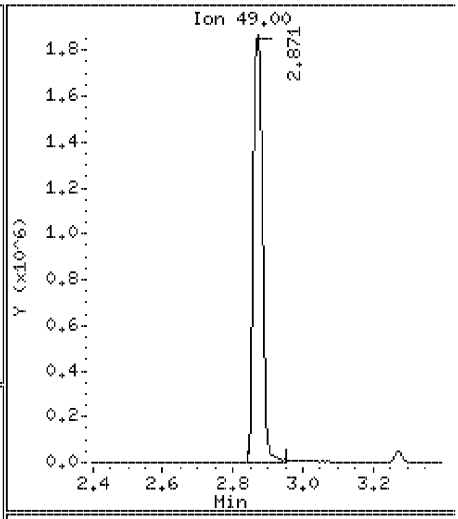
Operator: DR1

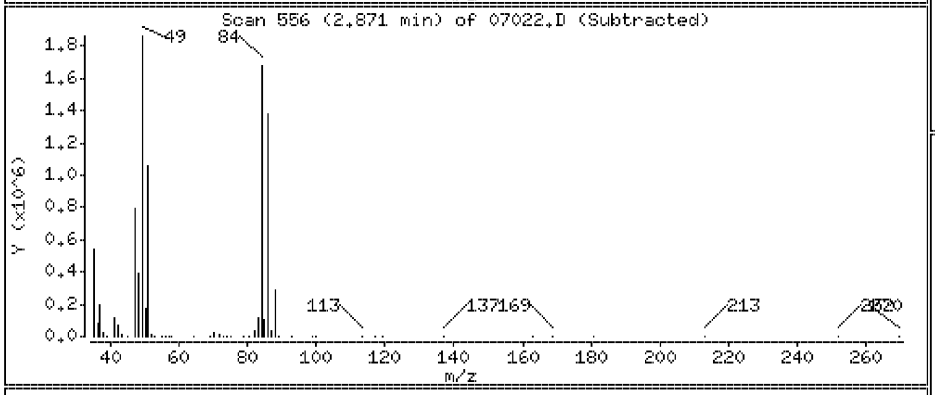
Column phase: J&W DB-5

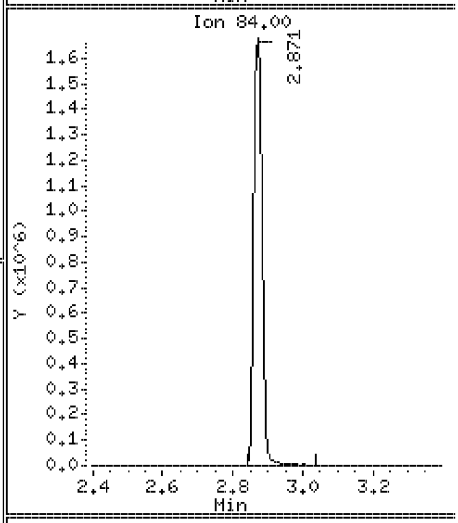
Column diameter: 0.32

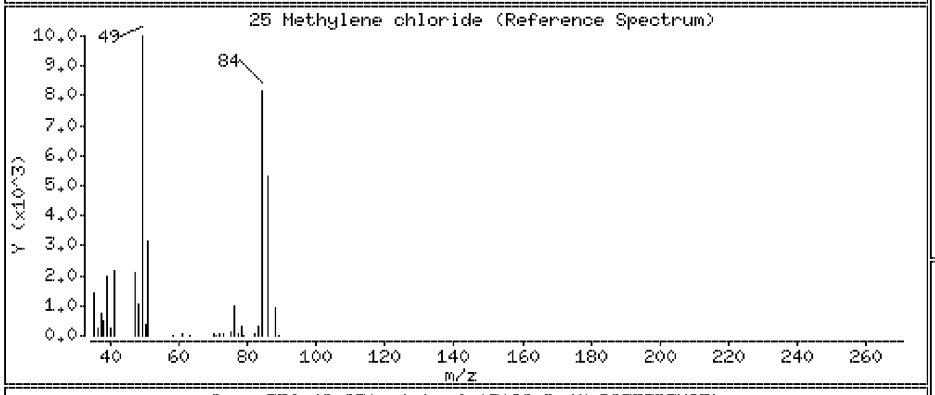
25 Methylene chloride

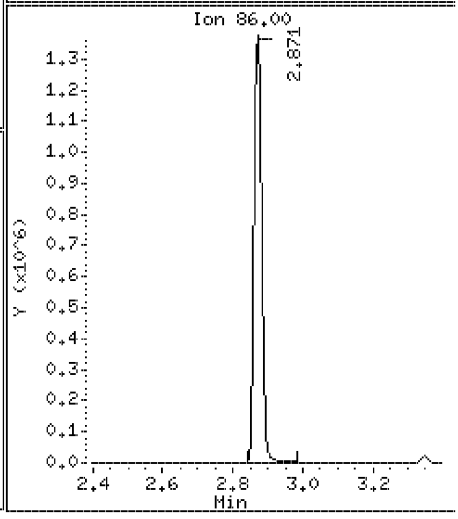


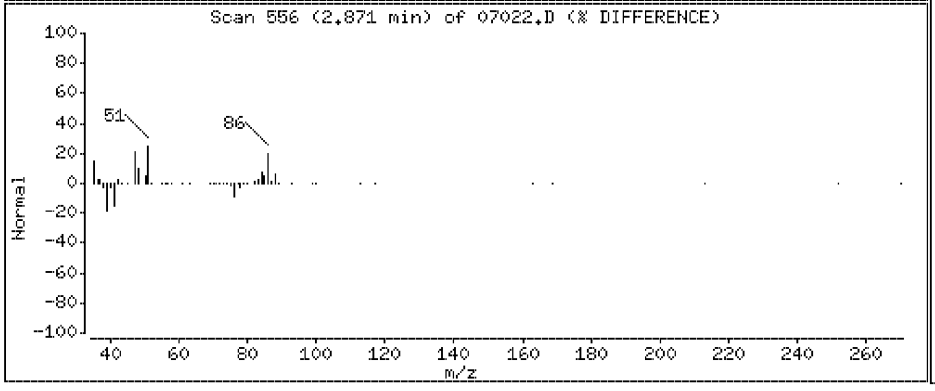












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

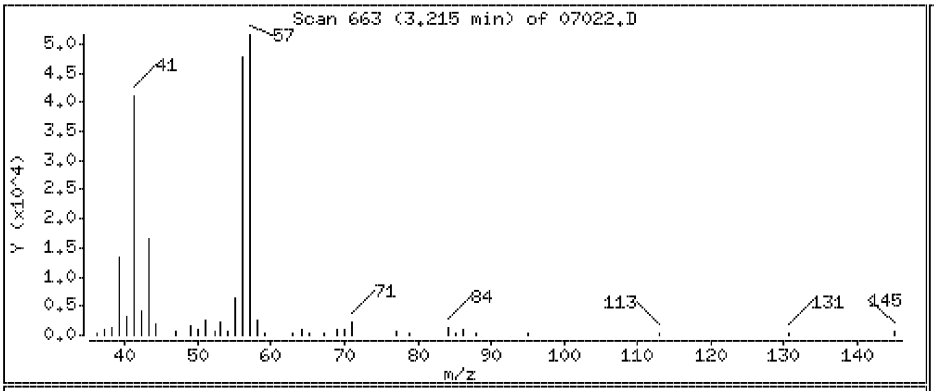
Operator: DR1

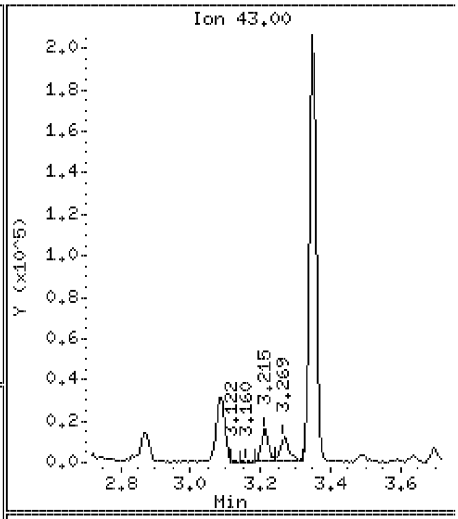
Column phase: J&W DB-5

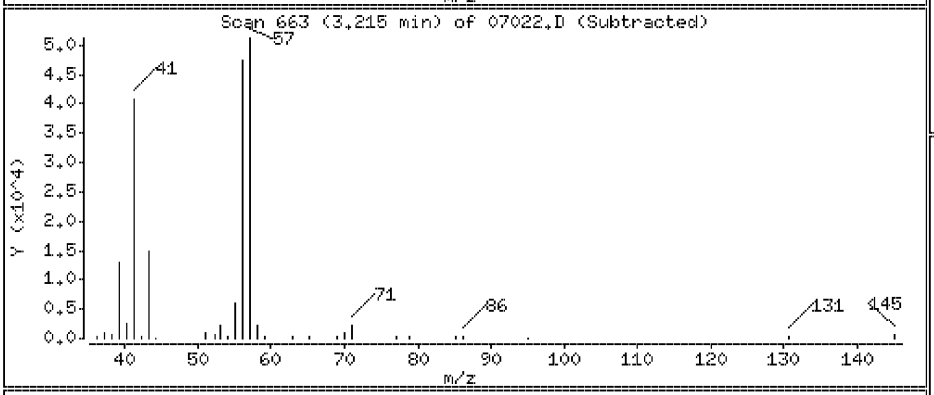
Column diameter: 0.32

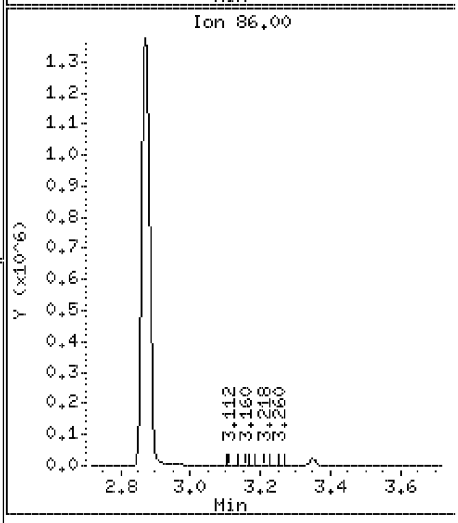
30 Vinyl Acetate

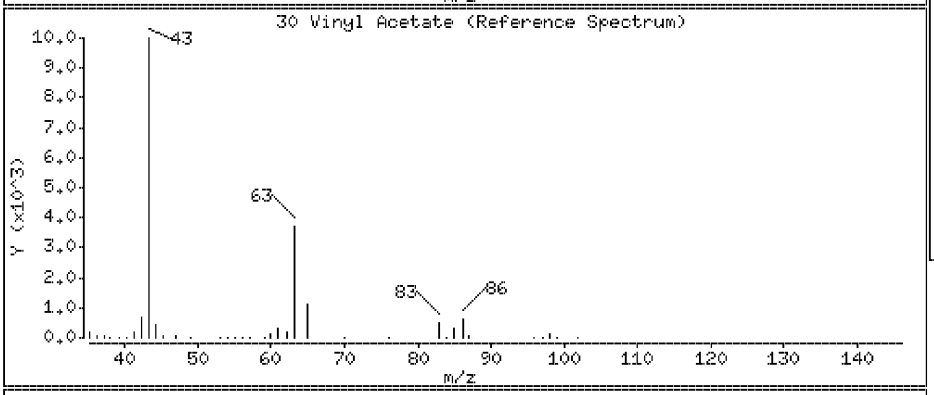
Concentration: 1.30 ppbv

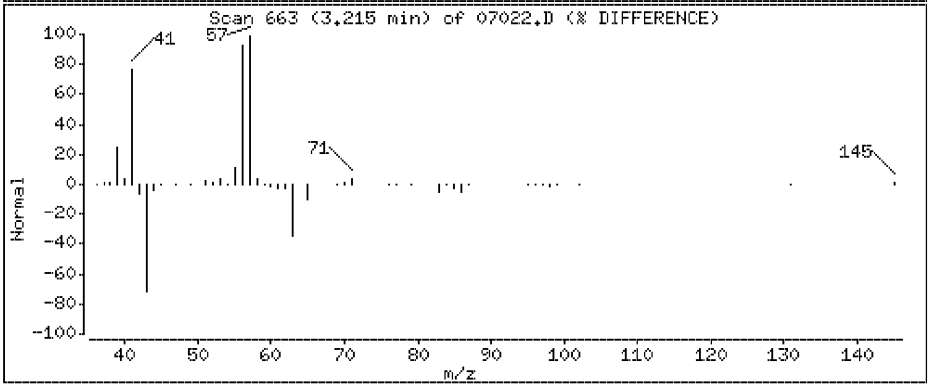












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

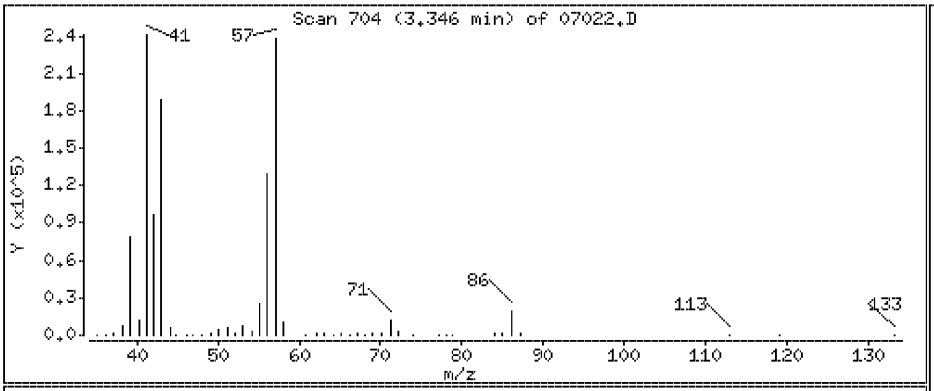
Operator: DR1

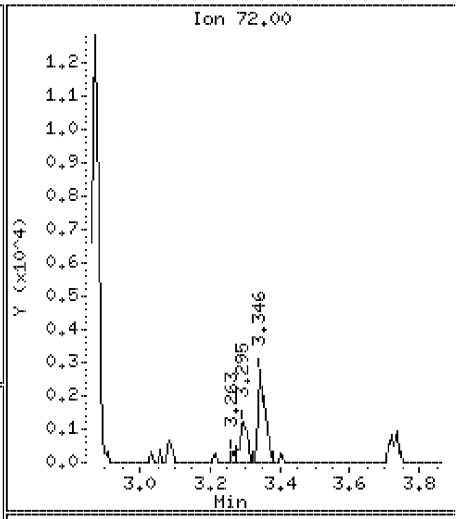
Column phase: J&W DB-5

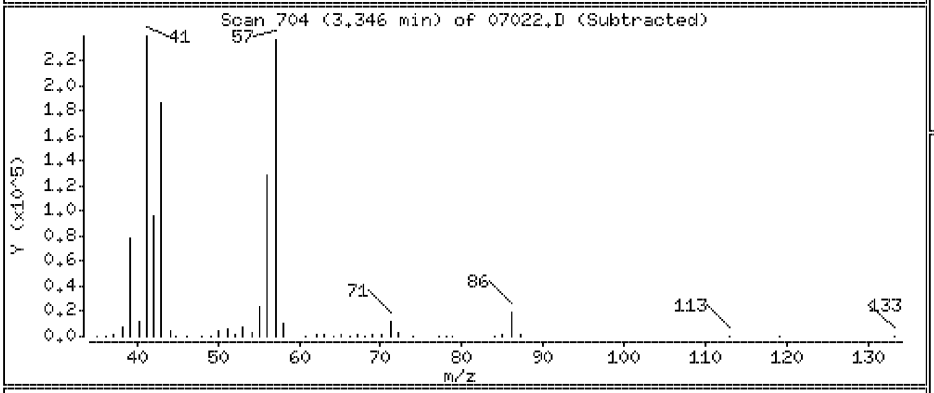
Column diameter: 0.32

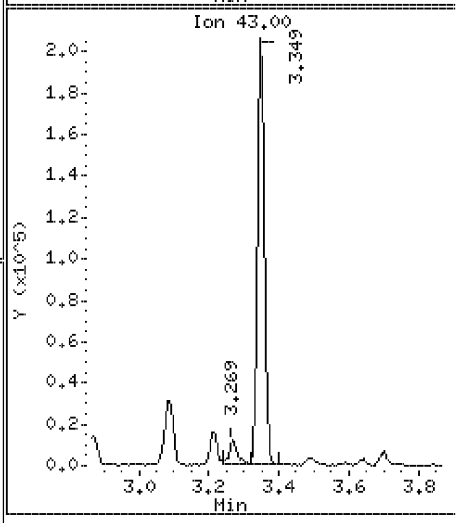
33 Methyl Ethyl Ketone

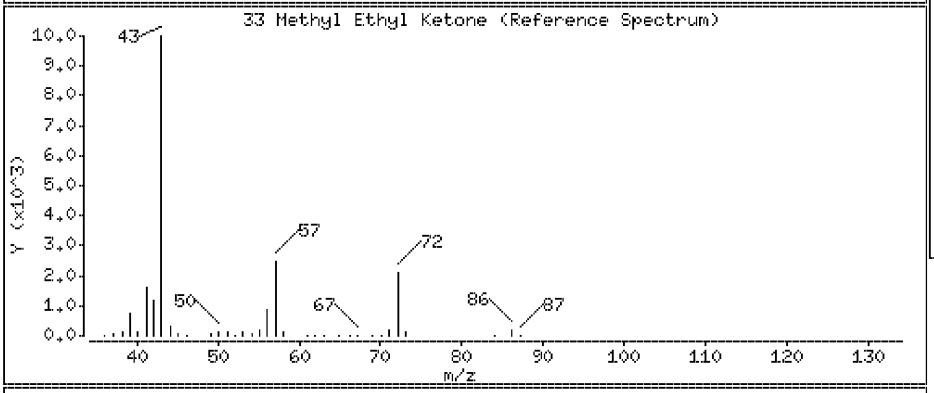
Concentration: 0.879 ppbv

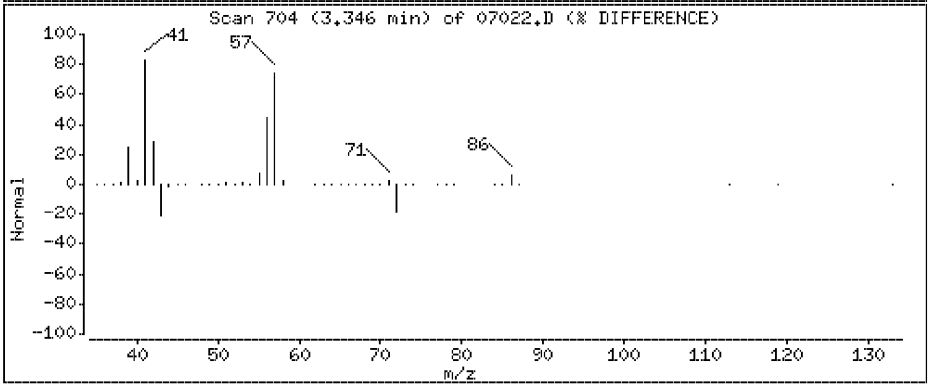












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

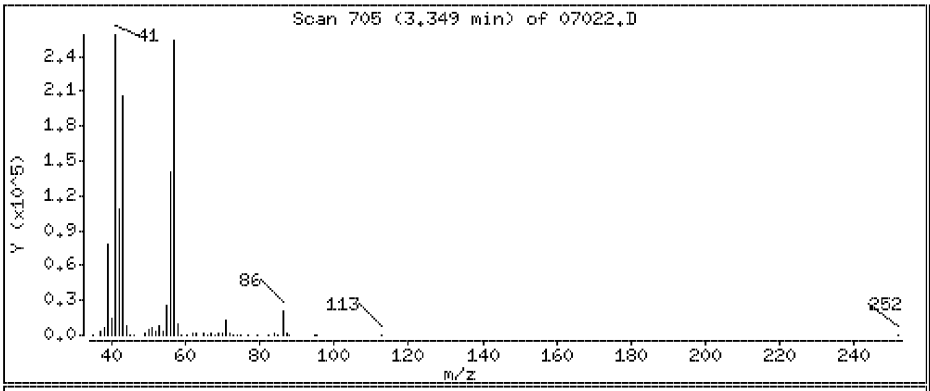
Operator: DR1

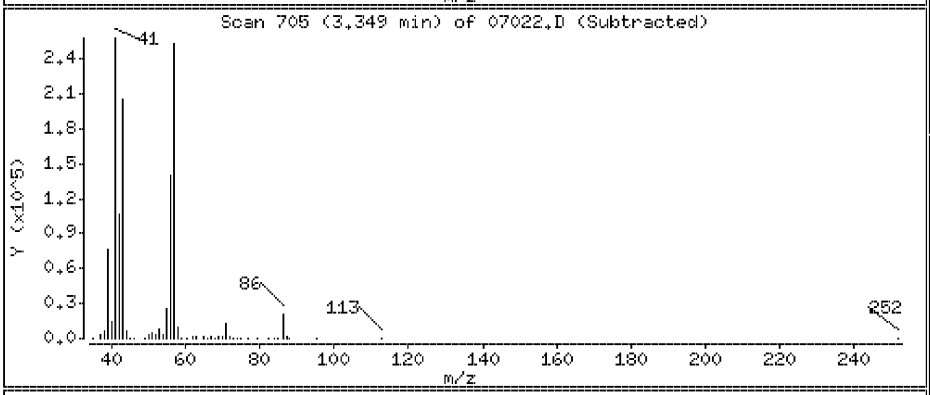
Column phase: J&W DB-5

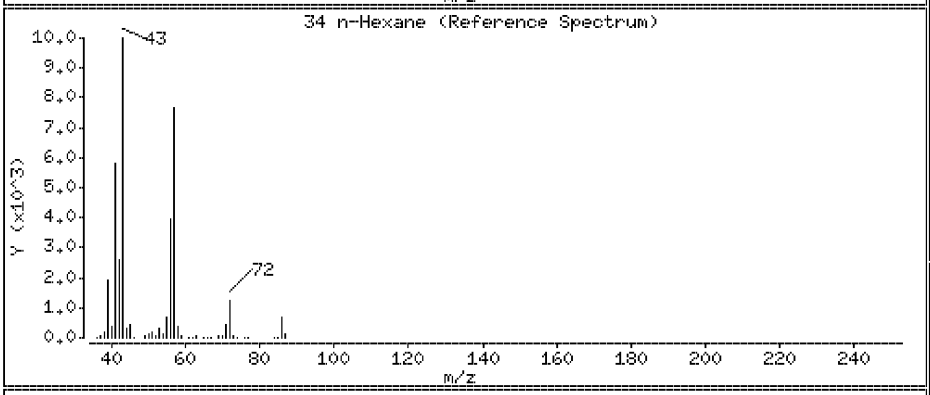
Column diameter: 0.32

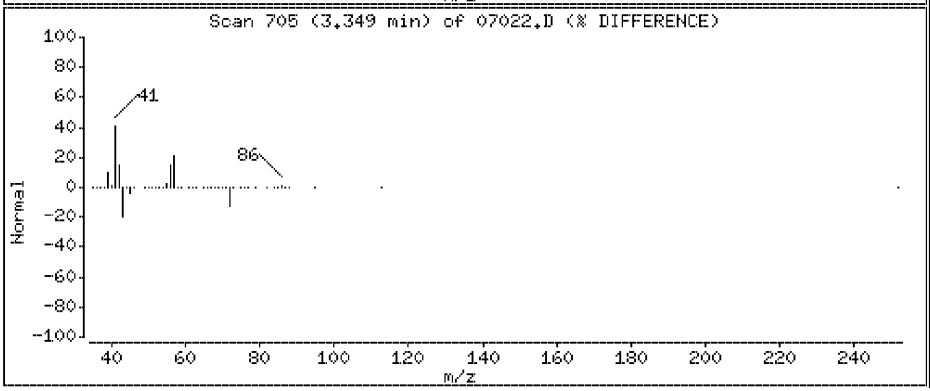
34 n-Hexane

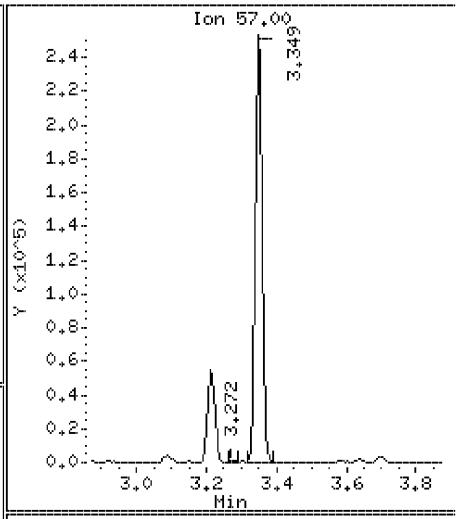
Concentration: 21.5 ppbv

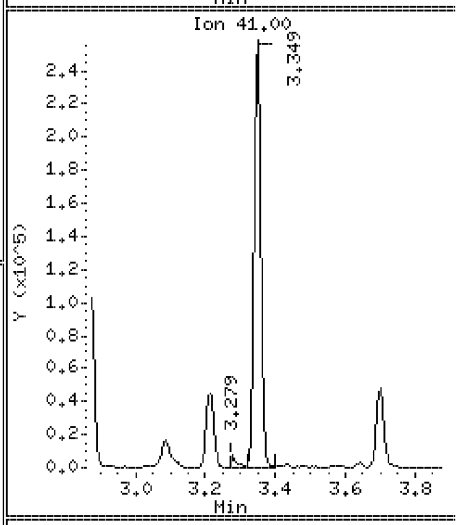


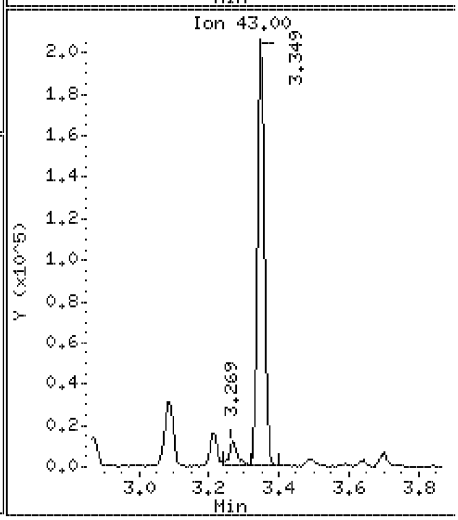












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

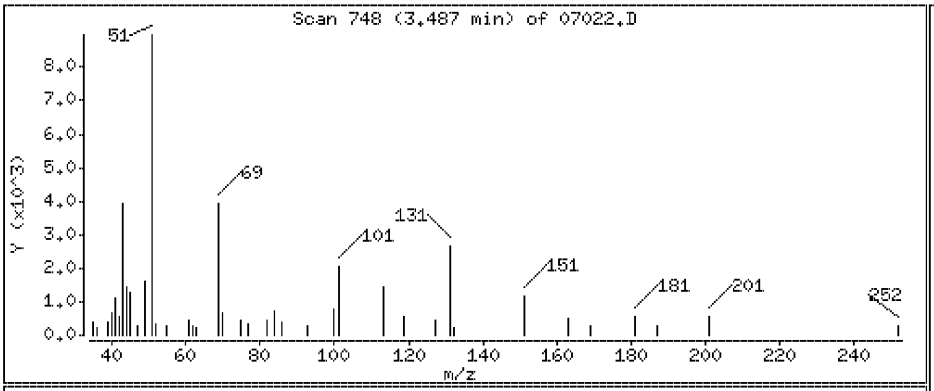
Operator: DR1

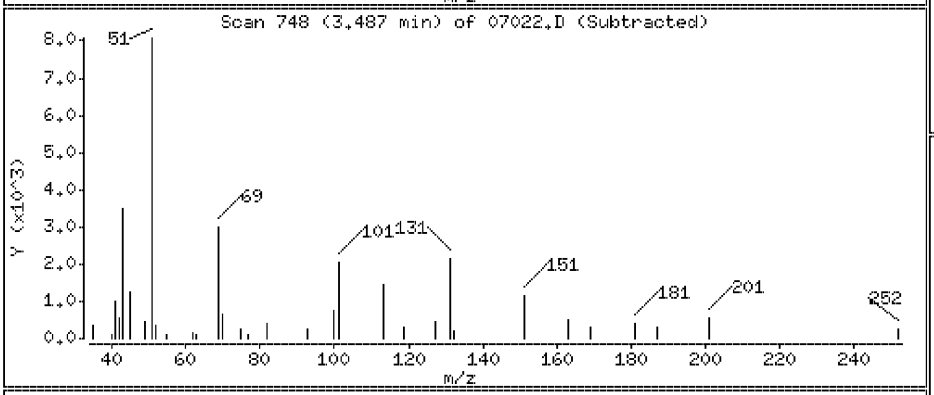
Column phase: J&W DB-5

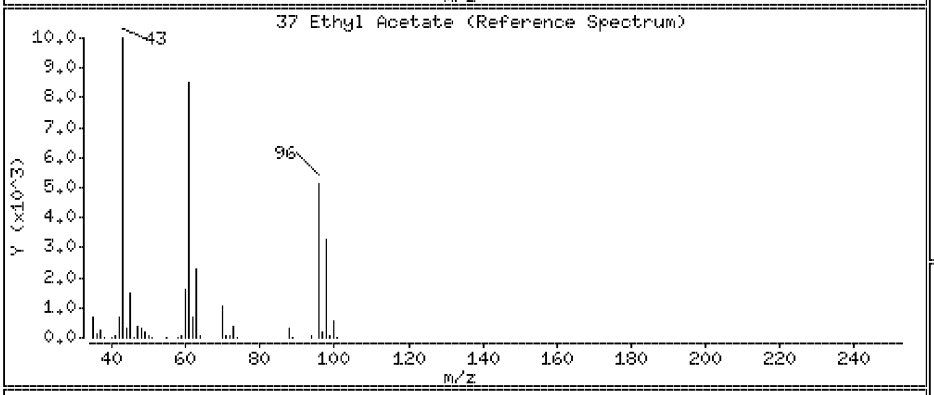
Column diameter: 0.32

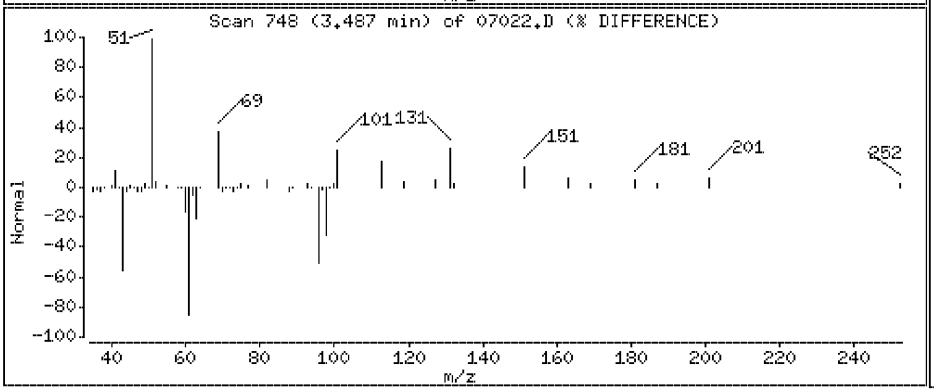
37 Ethyl Acetate

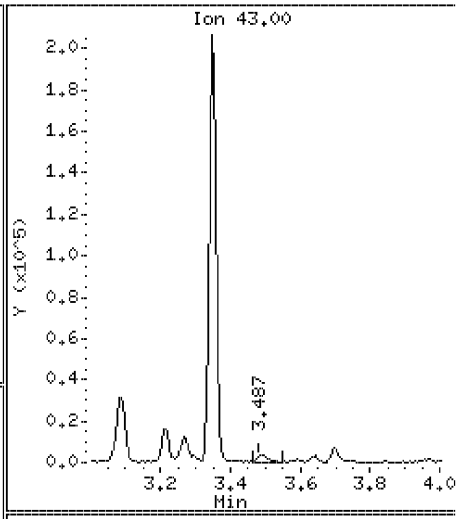
Concentration: 0.310 ppbv

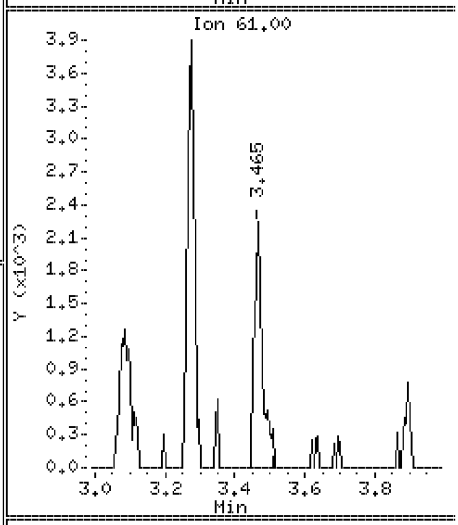


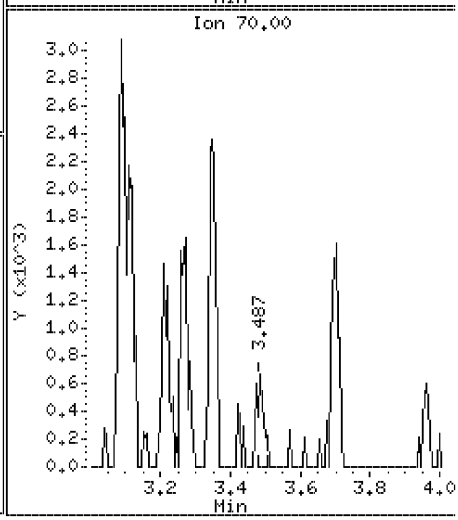












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

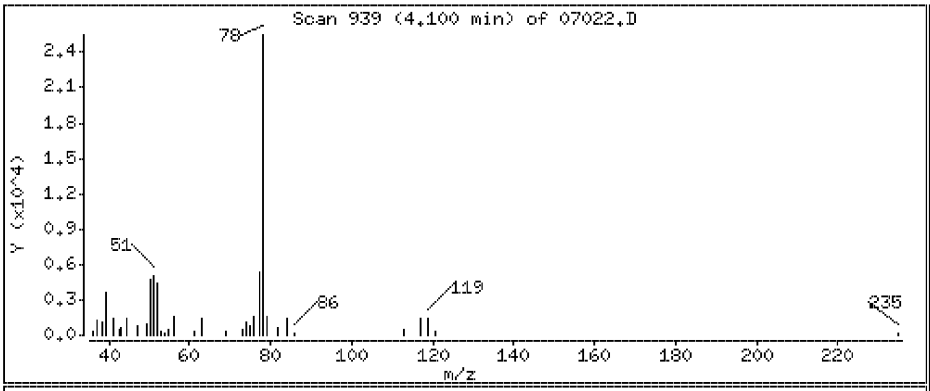
Operator: DR1

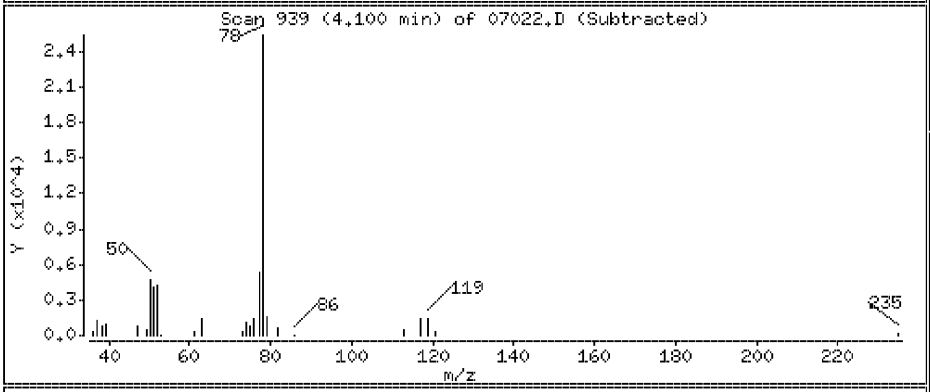
Column phase: J&W DB-5

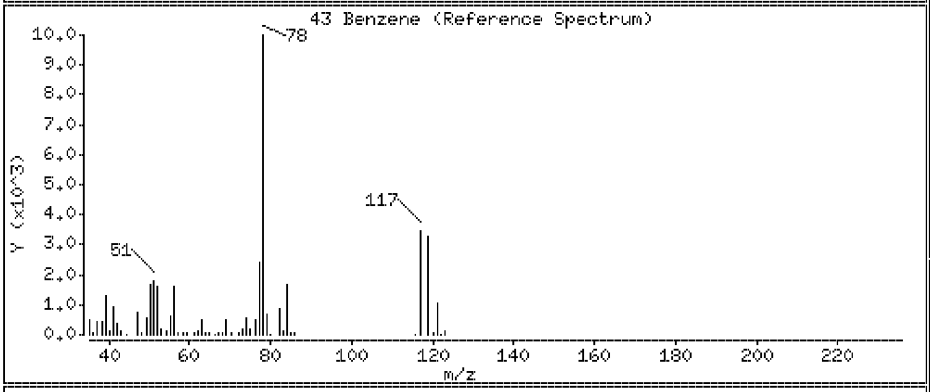
Column diameter: 0.32

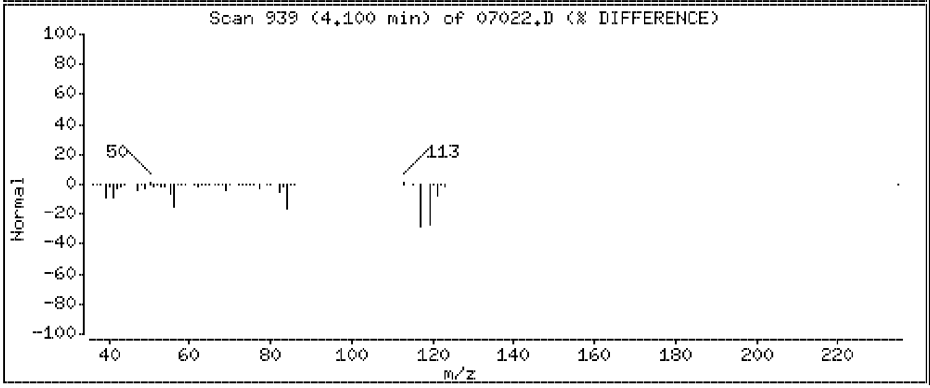
43 Benzene

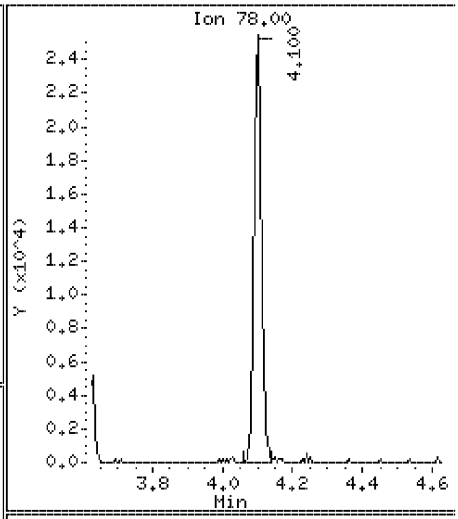
Concentration: 1.24 ppbv

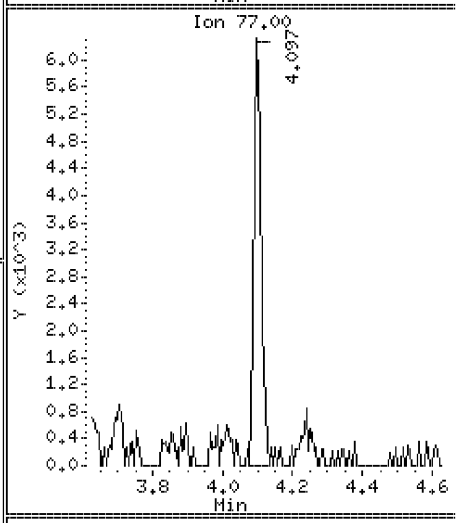


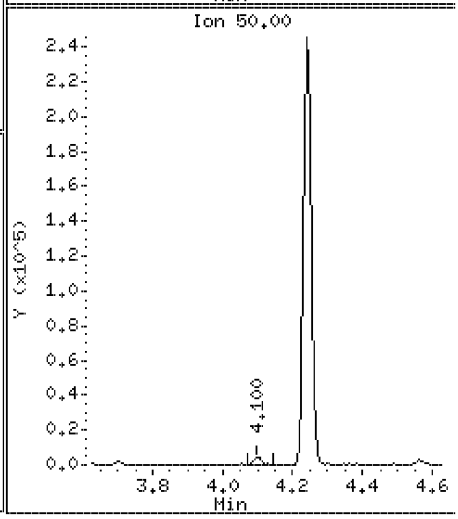












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

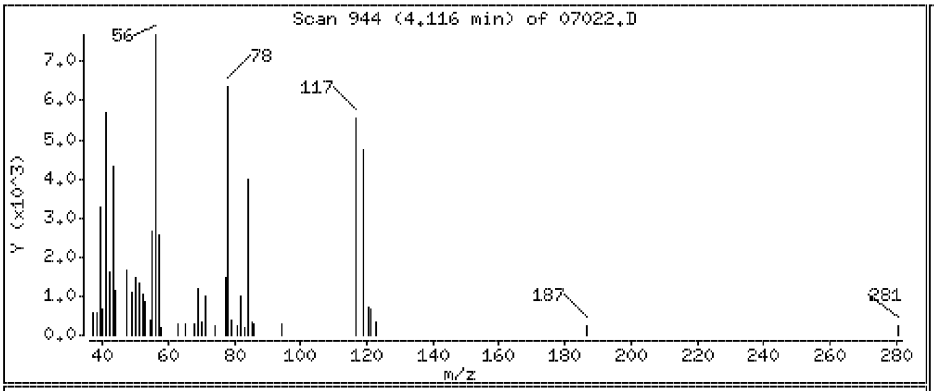
Operator: DR1

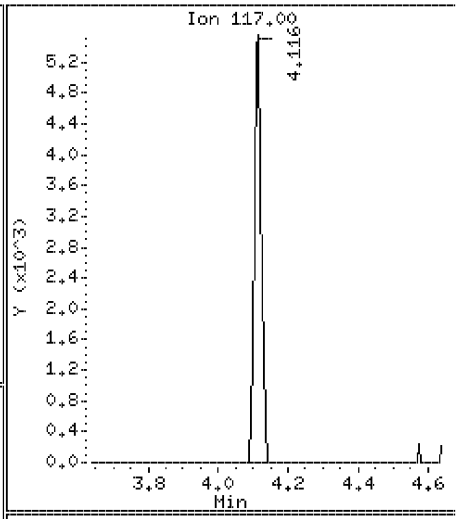
Column phase: J&W DB-5

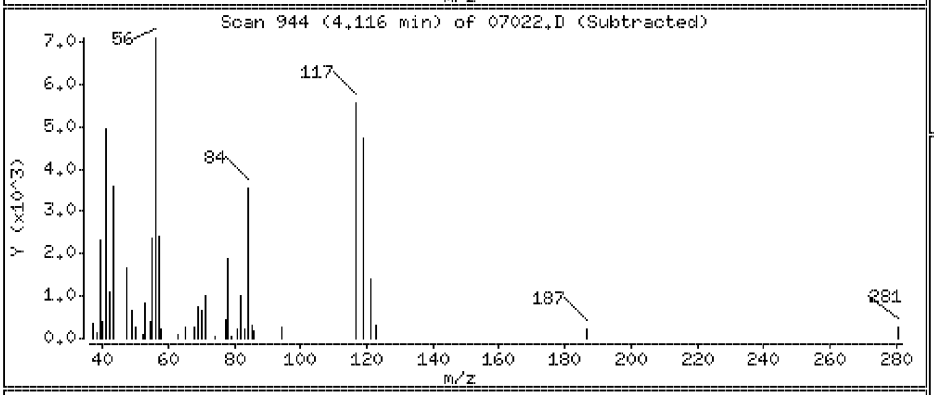
Column diameter: 0.32

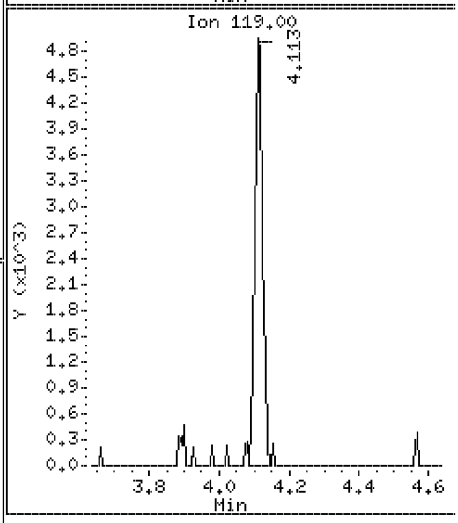
45 Carbon tetrachloride

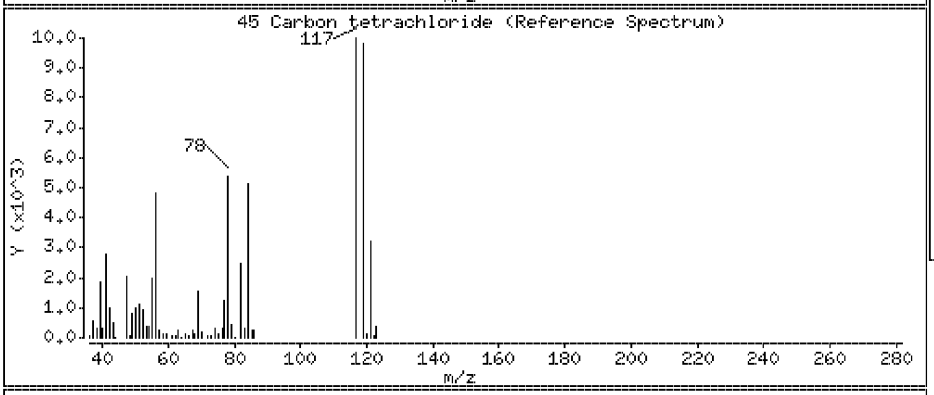
Concentration: 0.309 ppbv

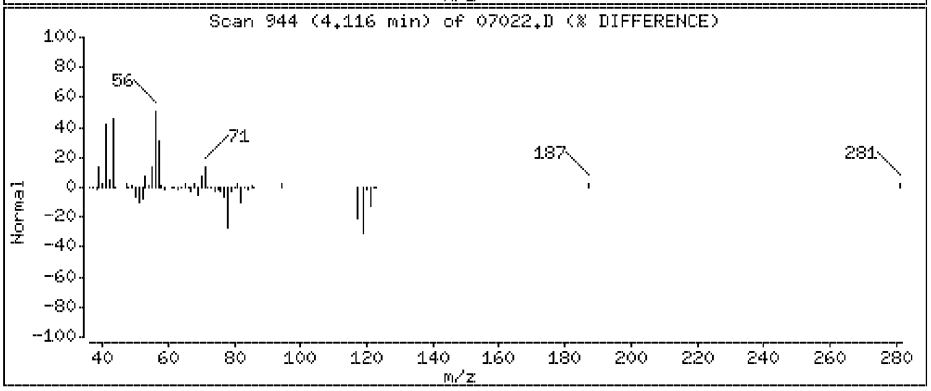












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

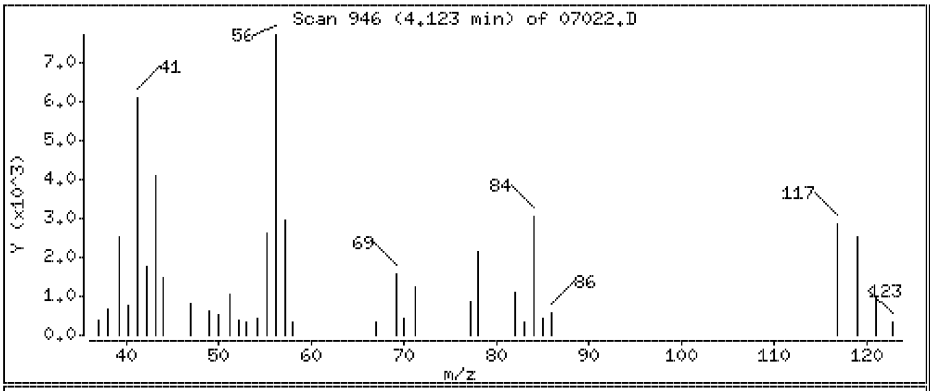
Operator: DR1

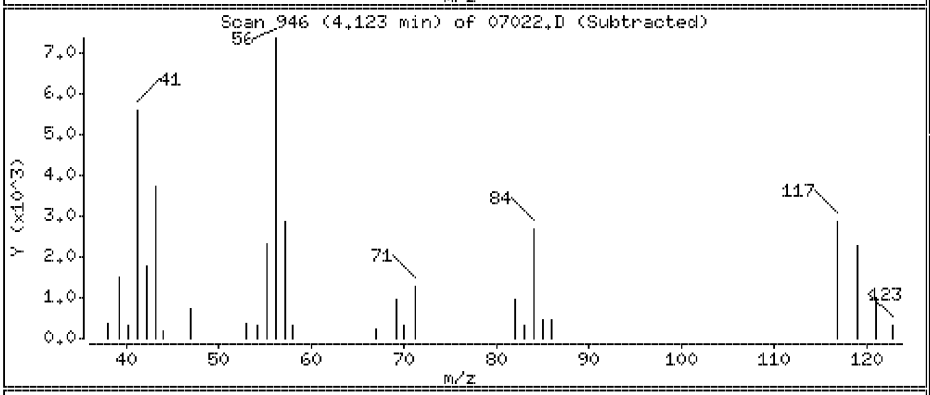
Column phase: J&W DB-5

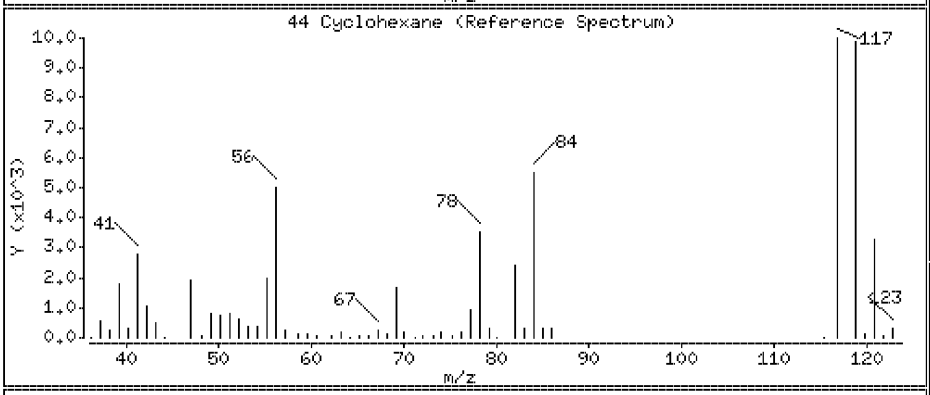
Column diameter: 0.32

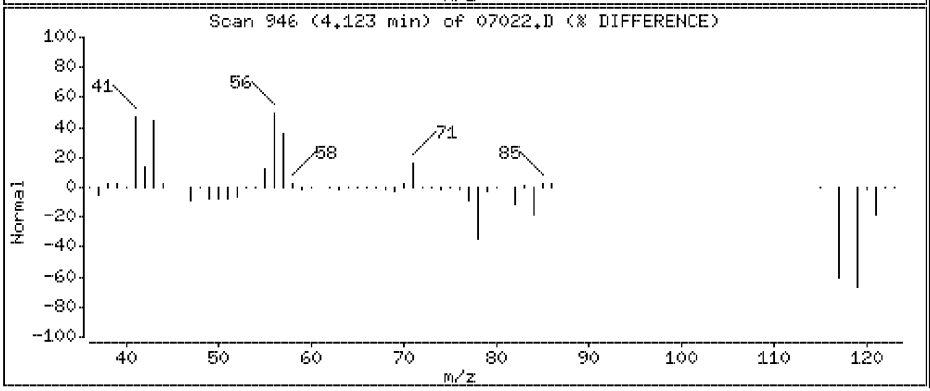
44 Cyclohexane

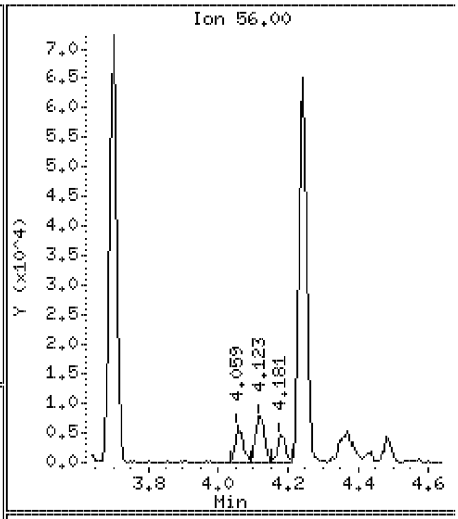
Concentration: 0.866 ppbv

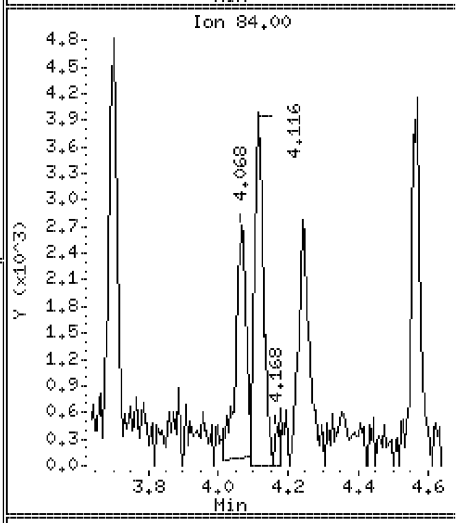


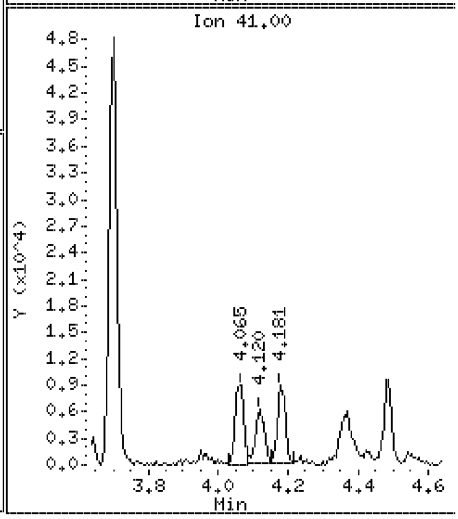












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

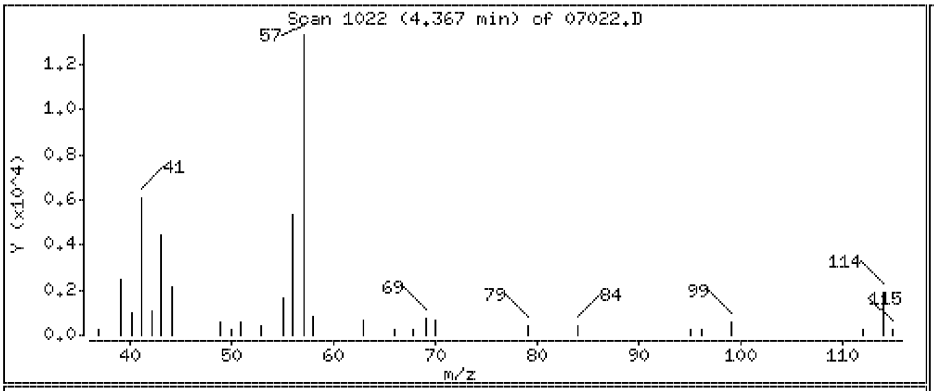
Operator: DR1

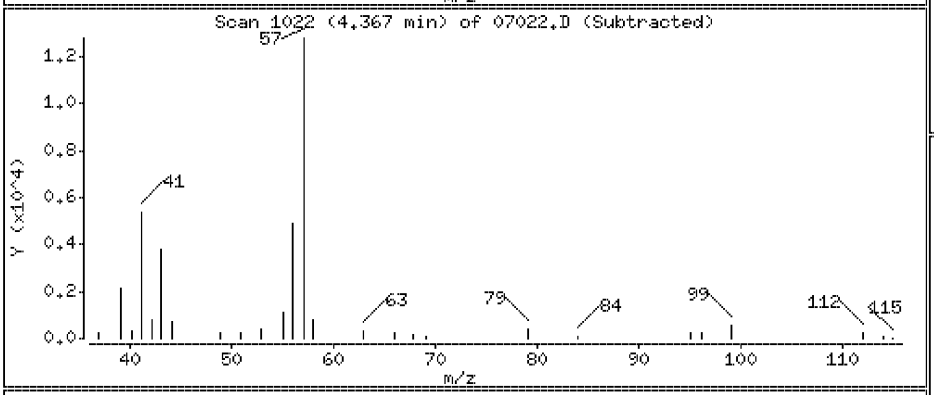
Column phase: J&W DB-5

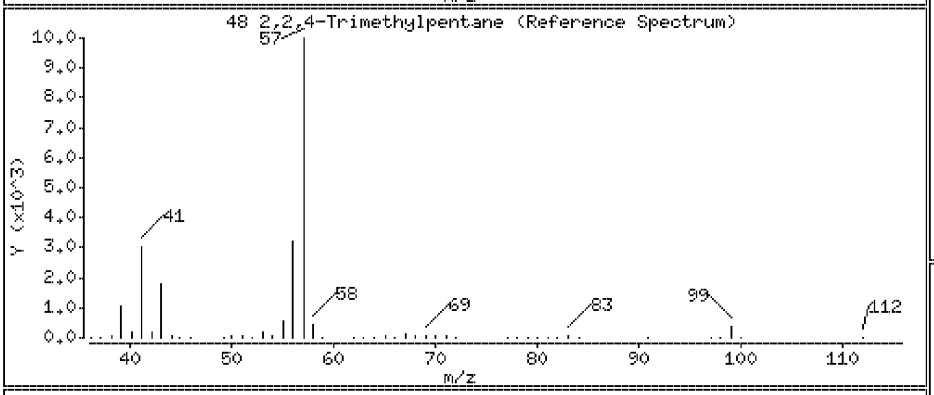
Column diameter: 0.32

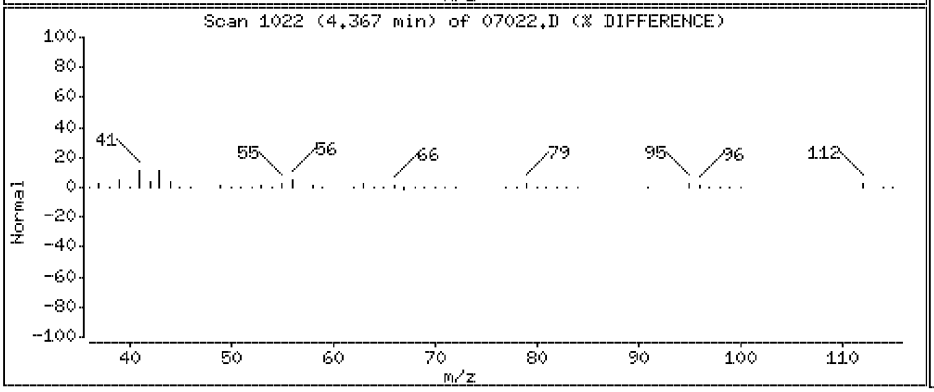
48 2,2,4-Trimethylpentane

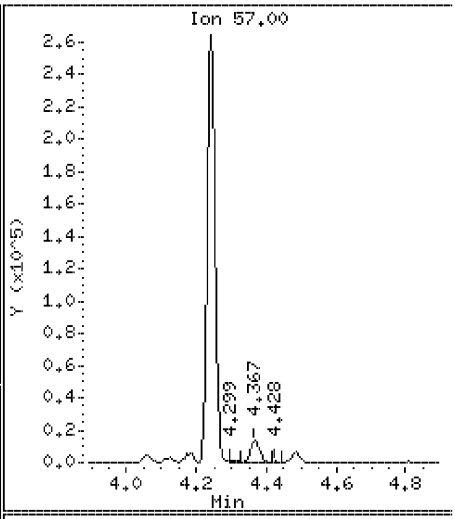
Concentration: 372 ppbv

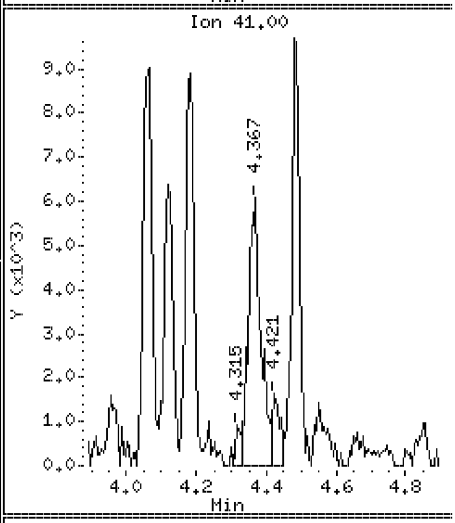


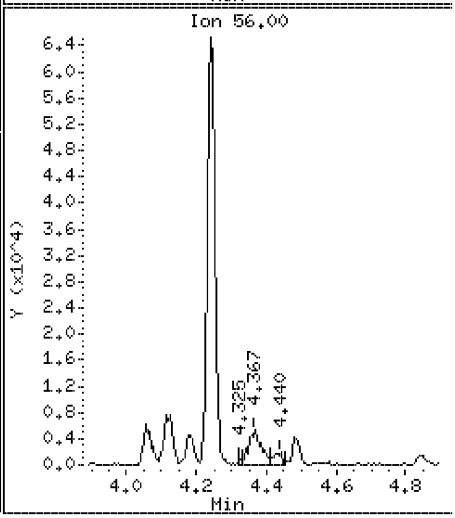












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

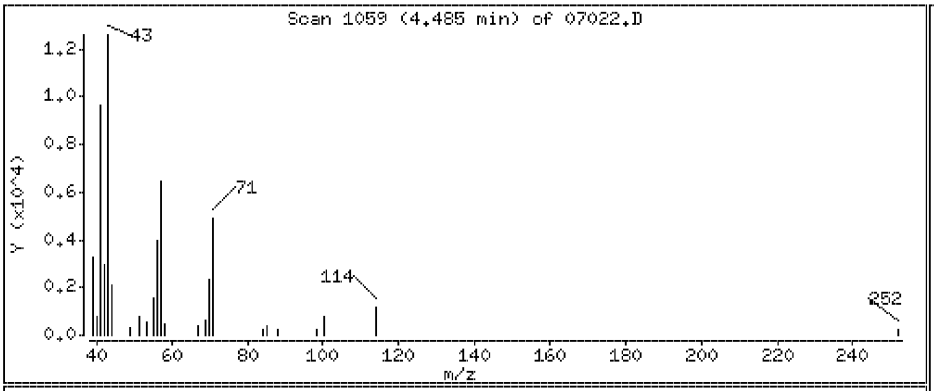
Operator: DR1

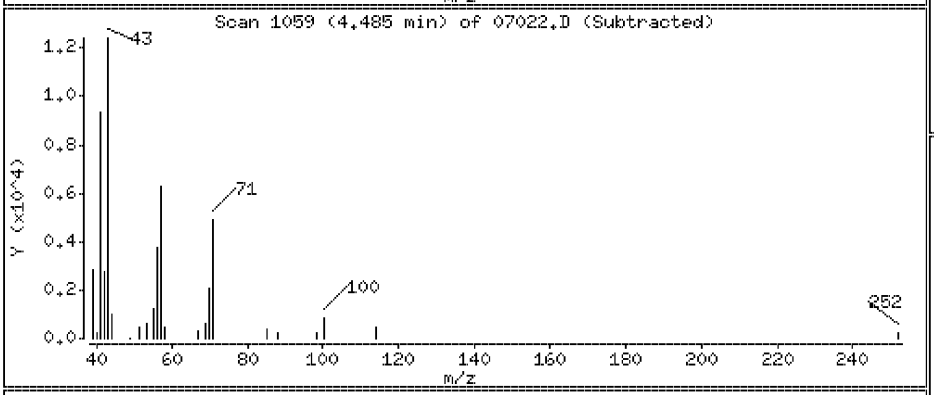
Column phase: J&W DB-5

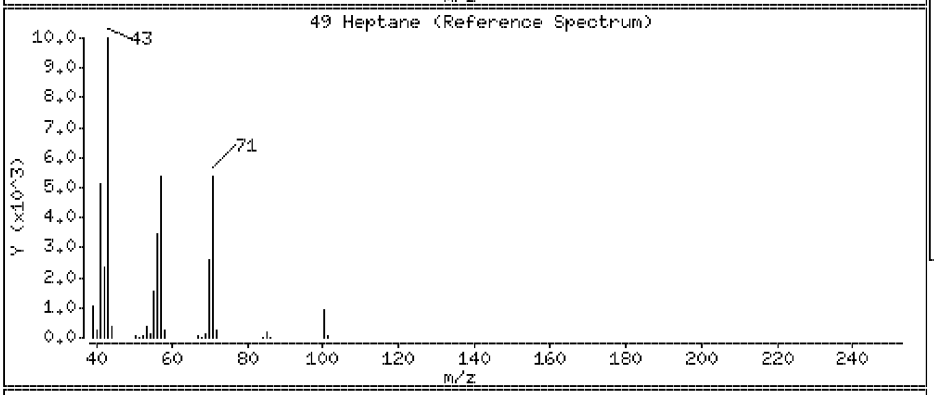
Column diameter: 0.32

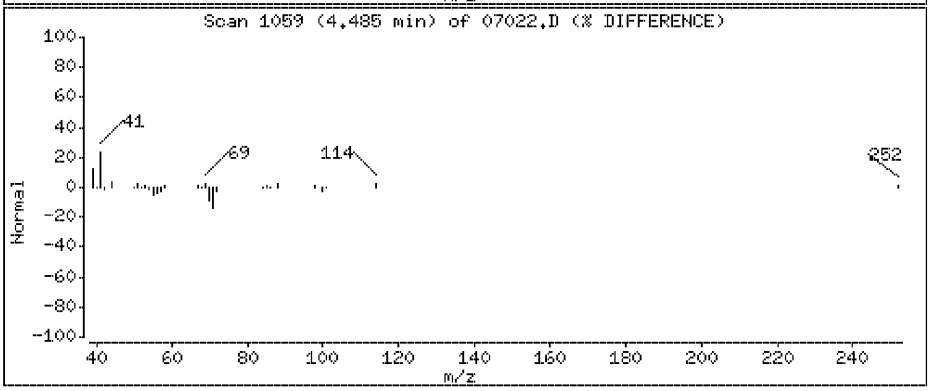
49 Heptane

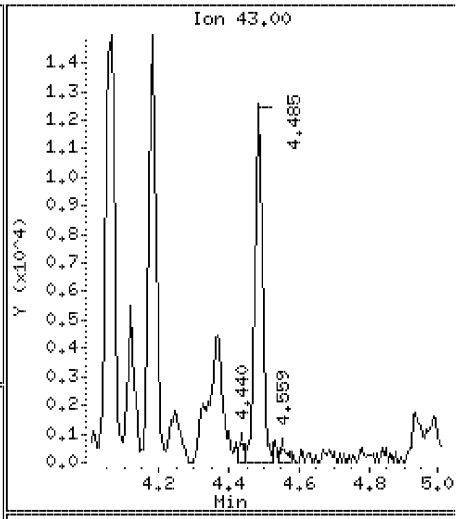
Concentration: 0.832 ppbv

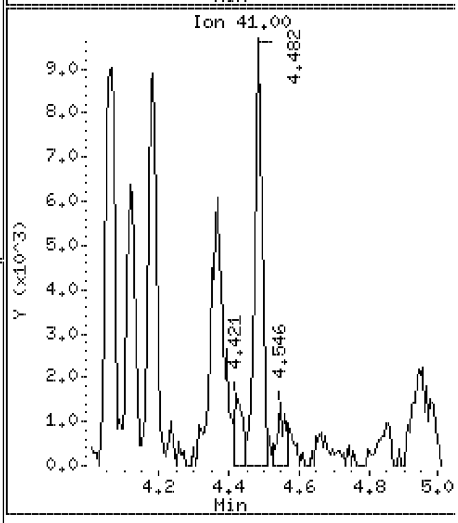












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

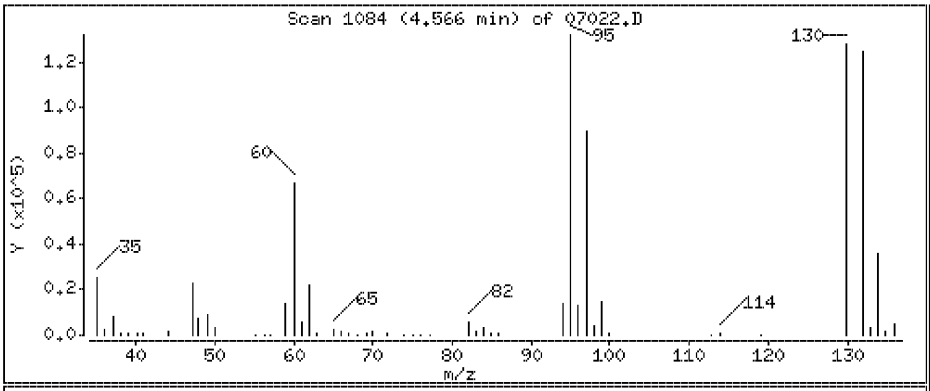
Operator: DR1

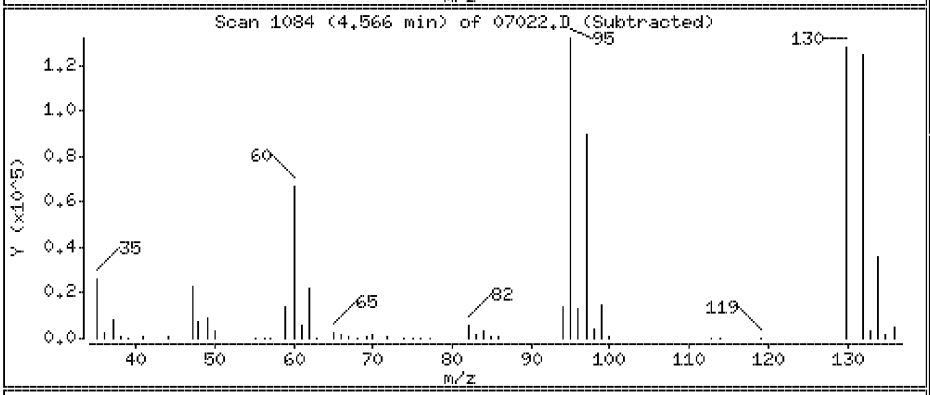
Column phase: J&W DB-5

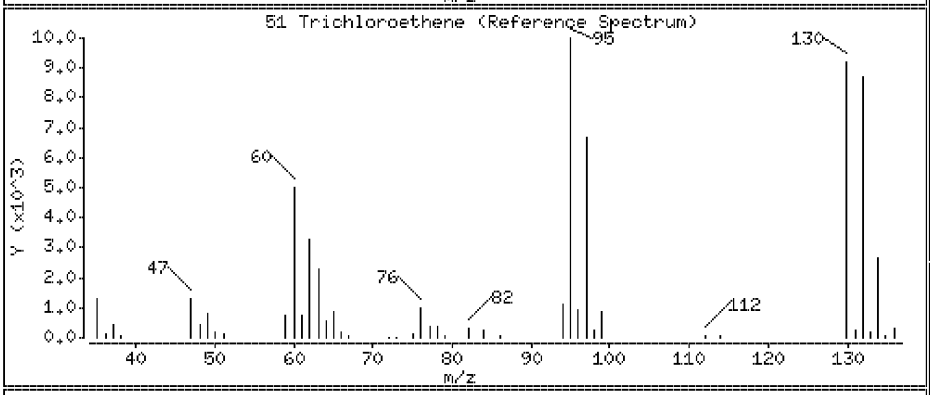
Column diameter: 0.32

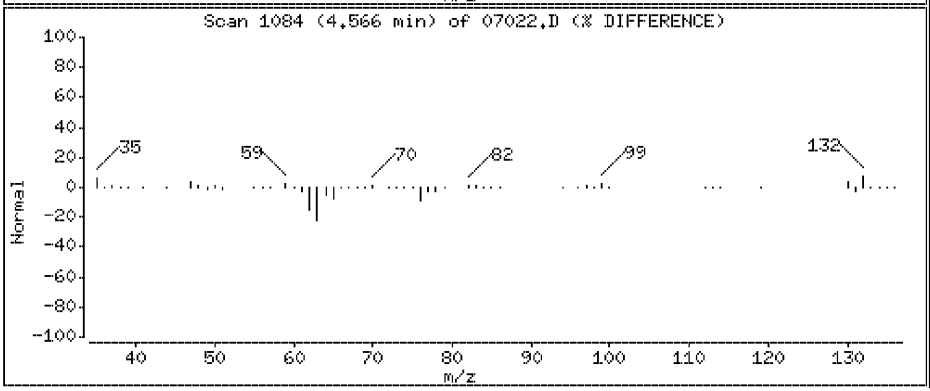
51 Trichloroethene

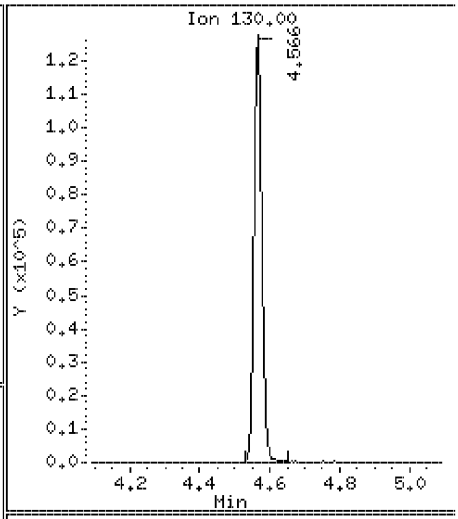
Concentration: 12.1 ppbv

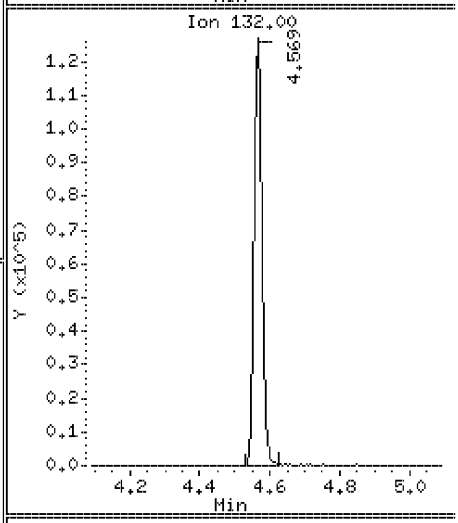


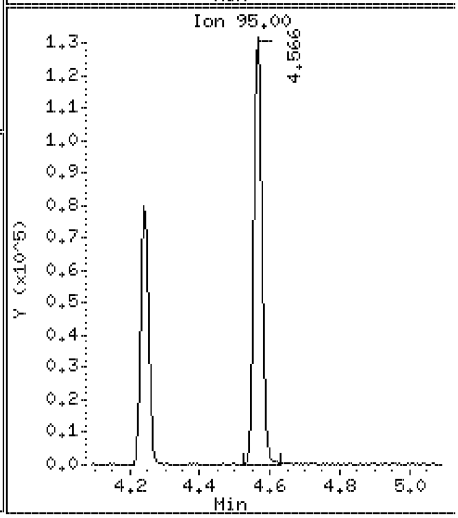












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

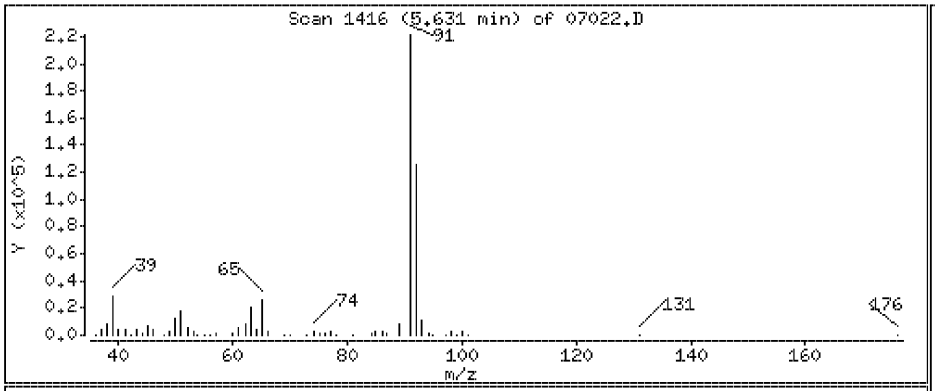
Operator: DR1

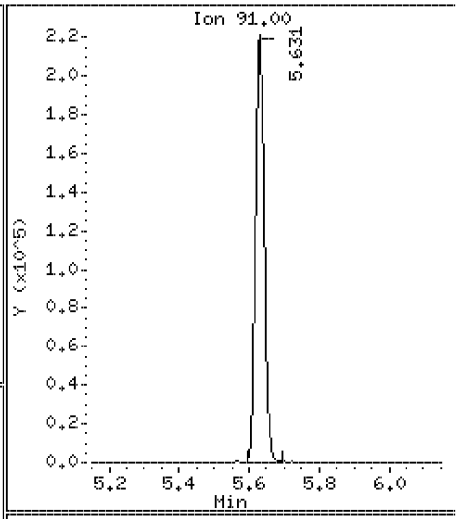
Column phase: J&W DB-5

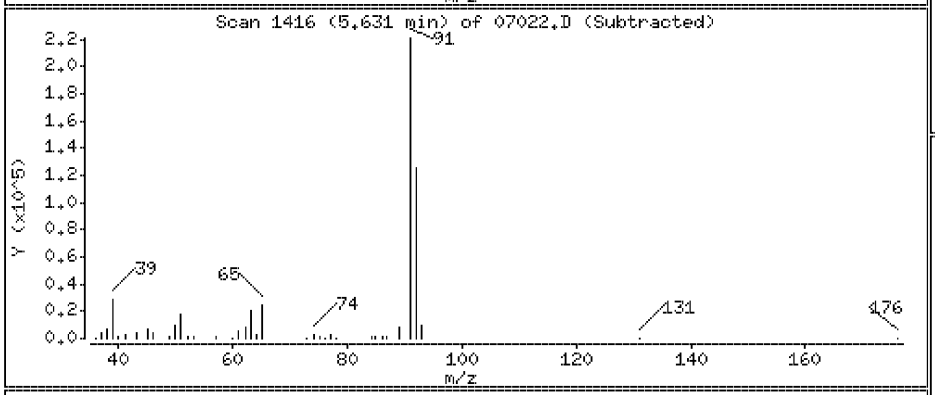
Column diameter: 0.32

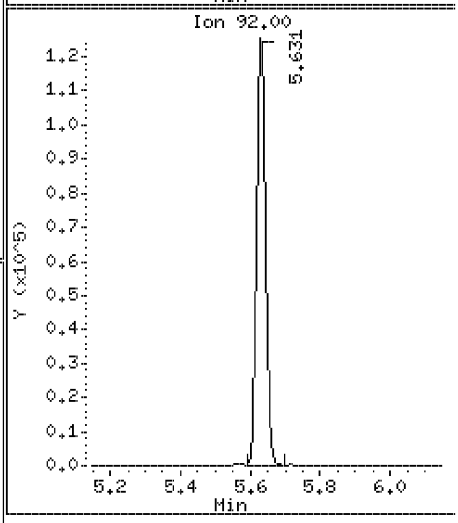
60 Toluene

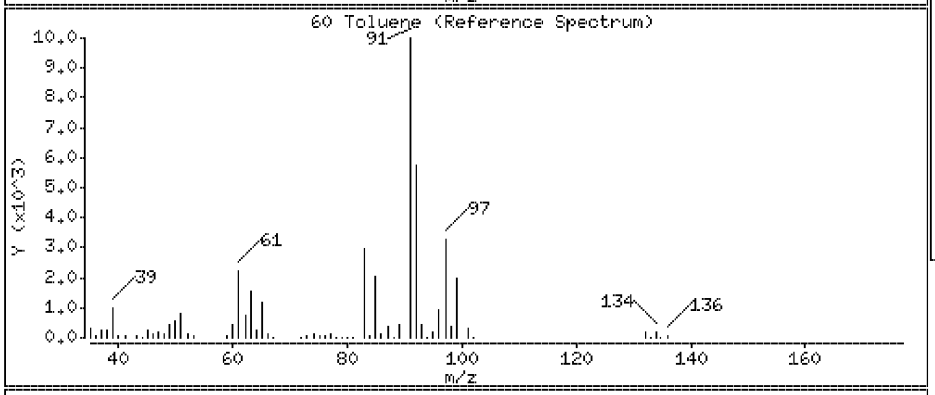
Concentration: 9.65 ppbv

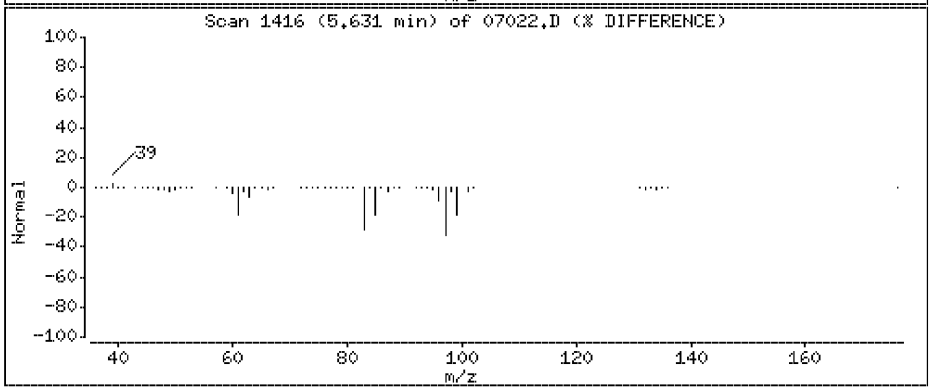












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

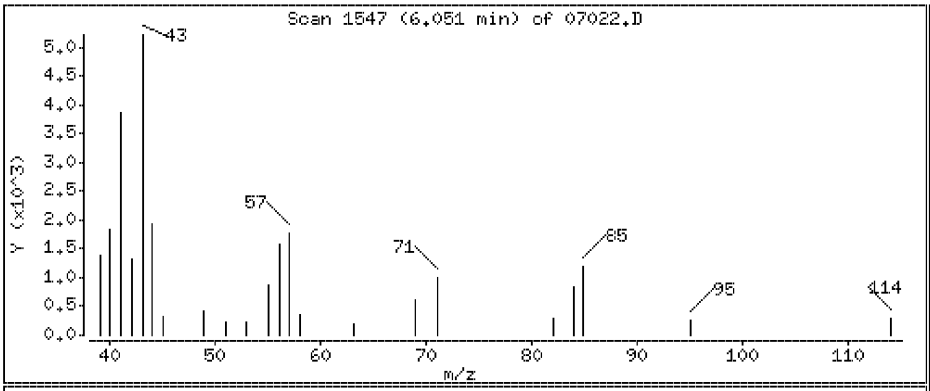
Operator: DR1

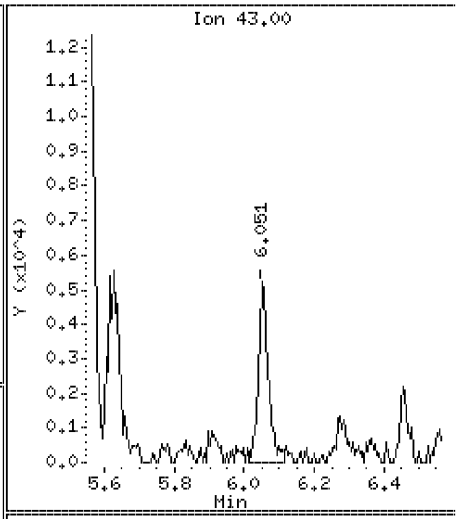
Column phase: J&W DB-5

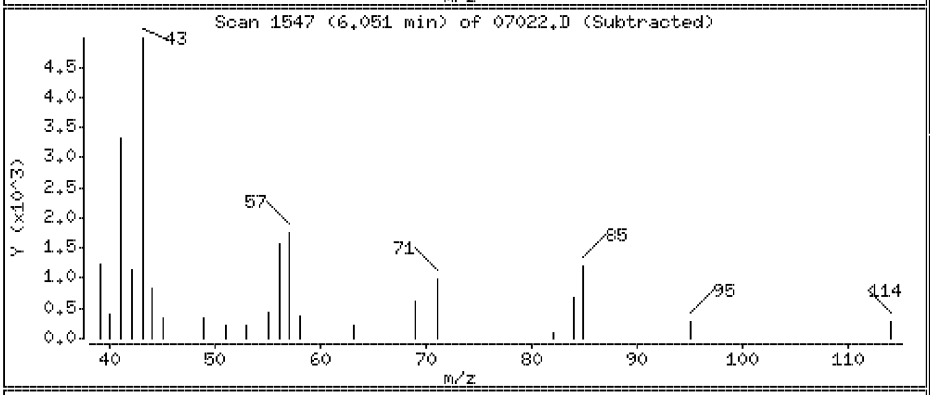
Column diameter: 0.32

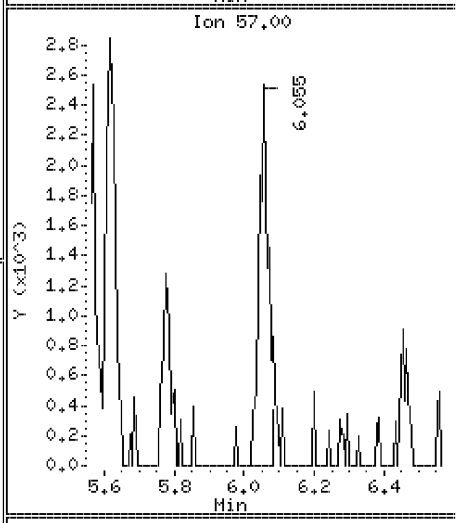
63 n-Octane

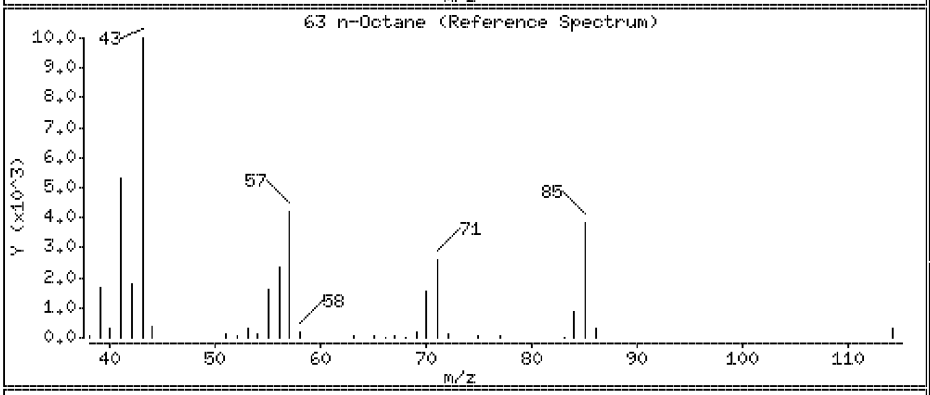
Concentration: 0.438 ppbv

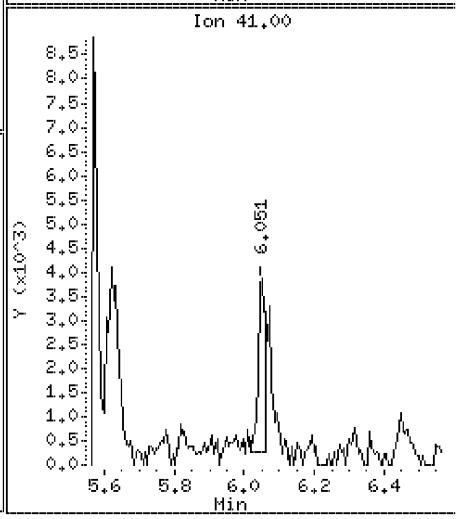


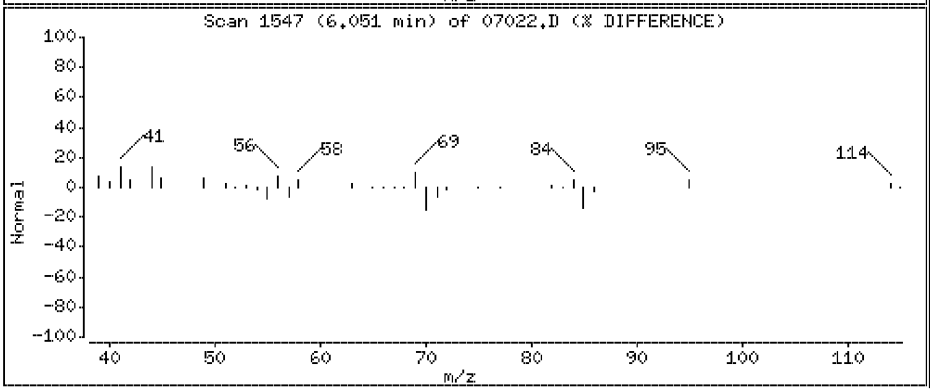












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

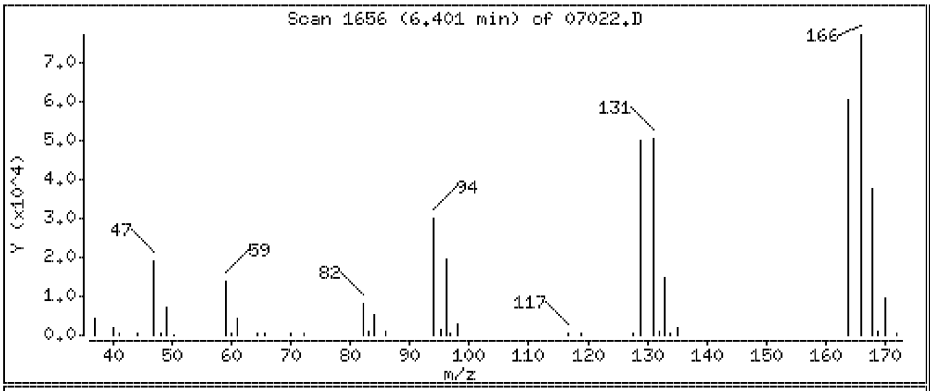
Operator: DR1

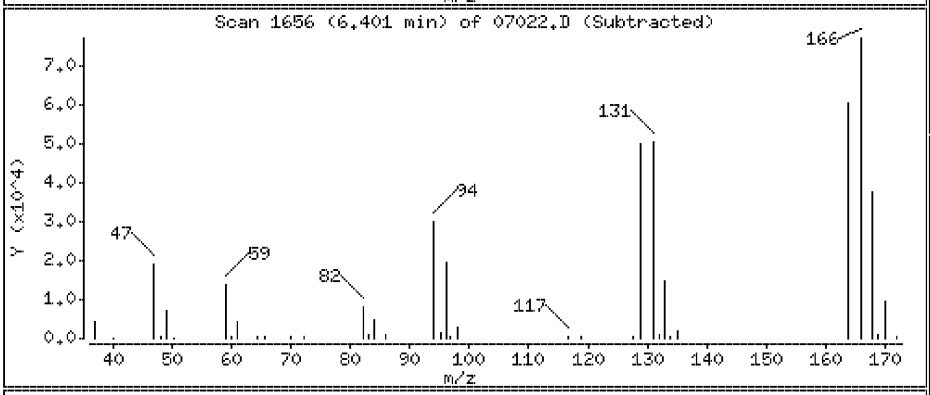
Column phase: J&W DB-5

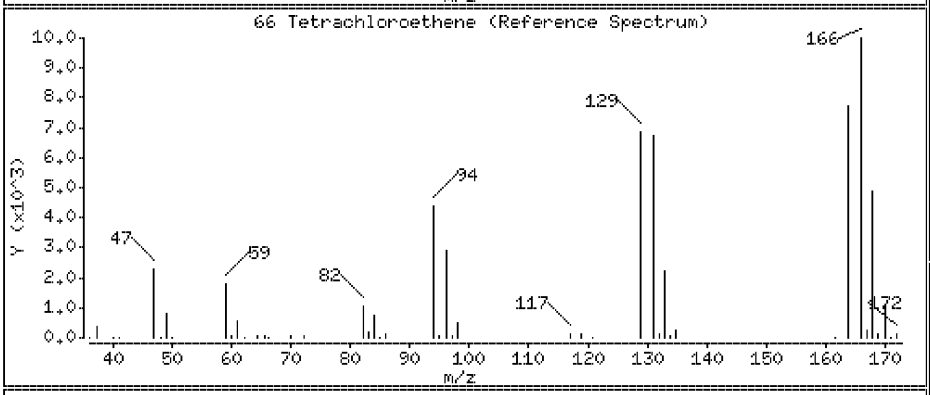
Column diameter: 0.32

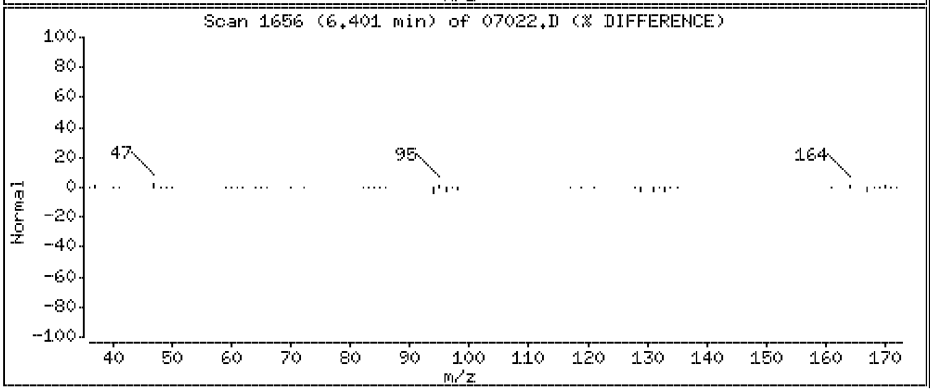
66 Tetrachloroethene

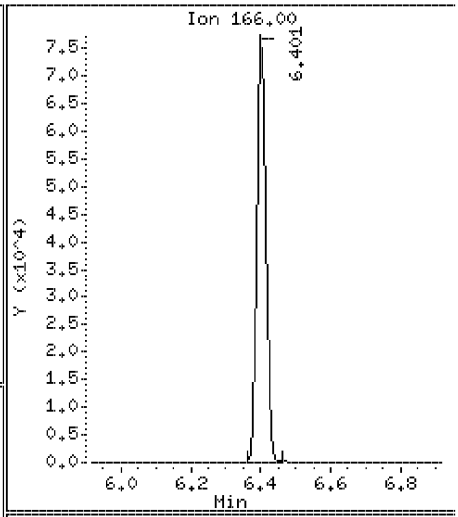
Concentration: 6.38 ppbv

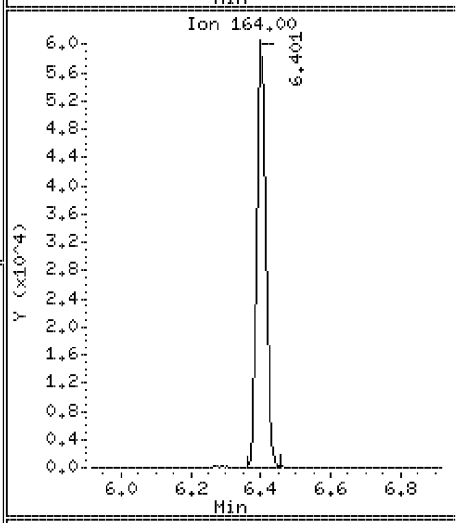


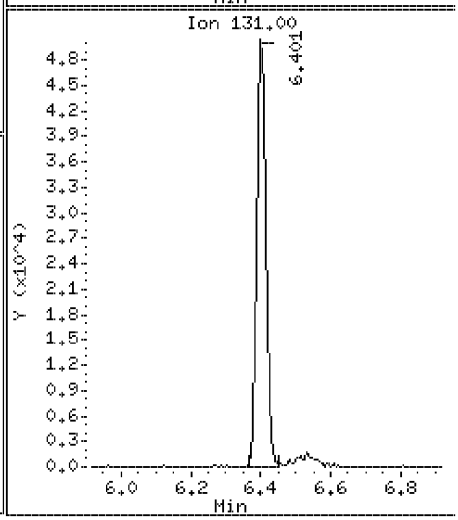












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

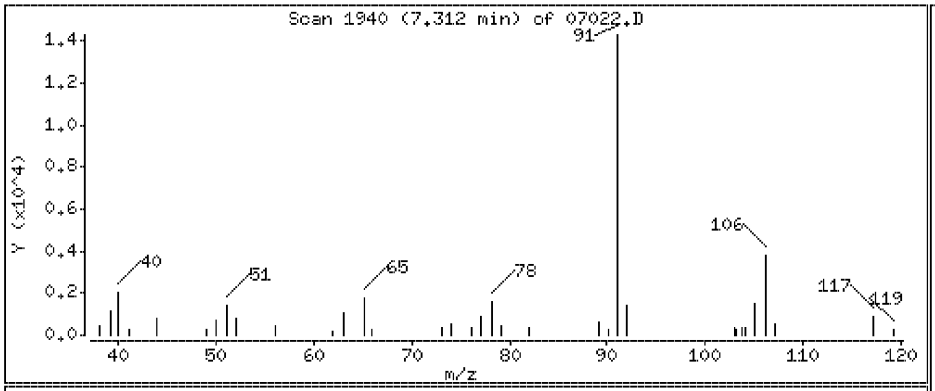
Operator: DR1

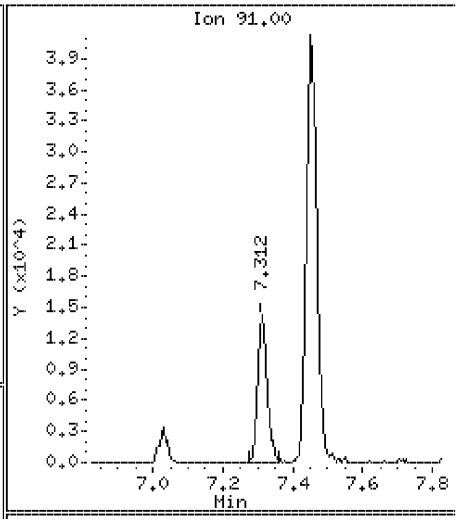
Column phase: J&W DB-5

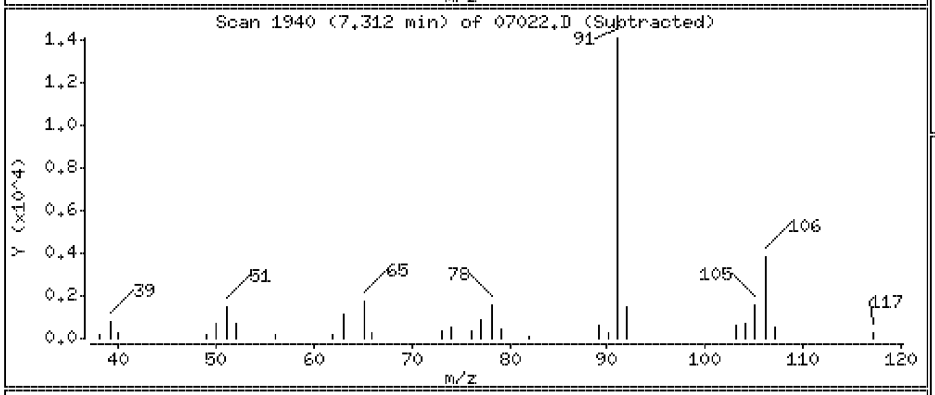
Column diameter: 0.32

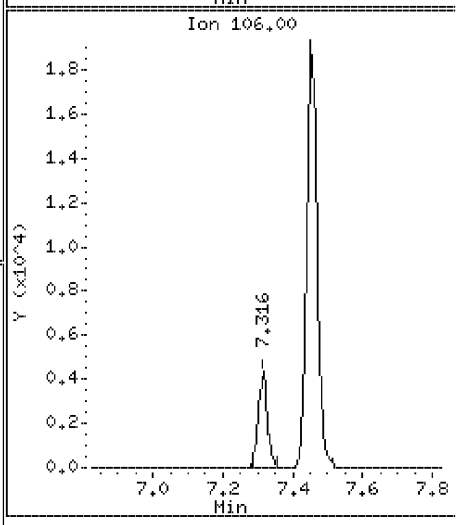
69 Ethyl Benzene

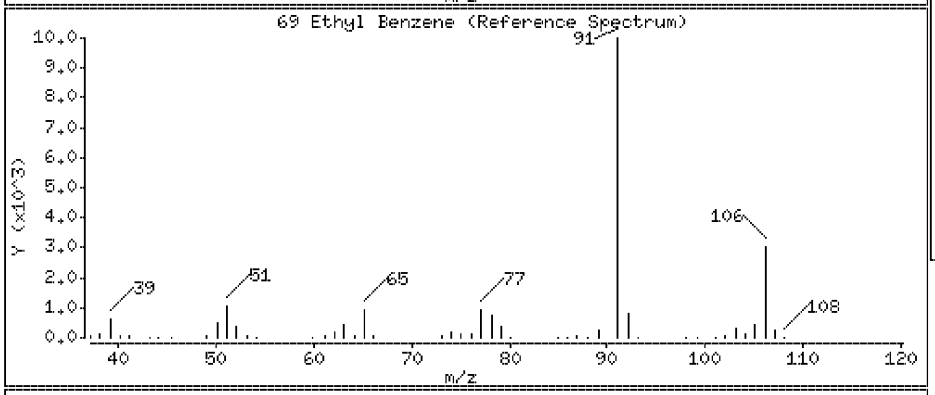
Concentration: 0.653 ppbv

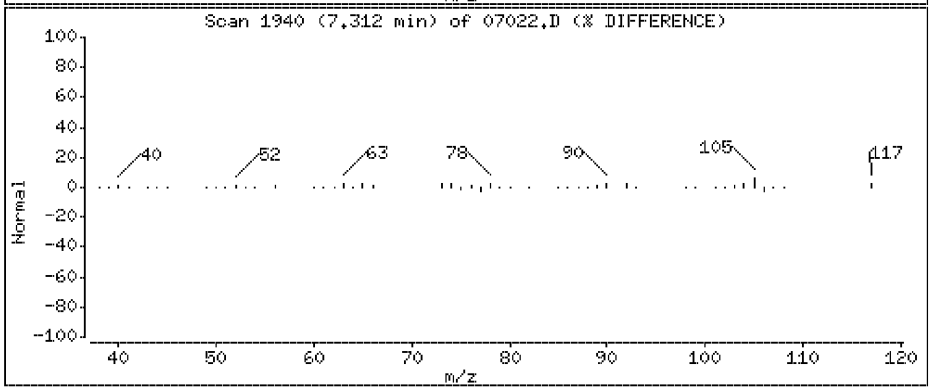












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

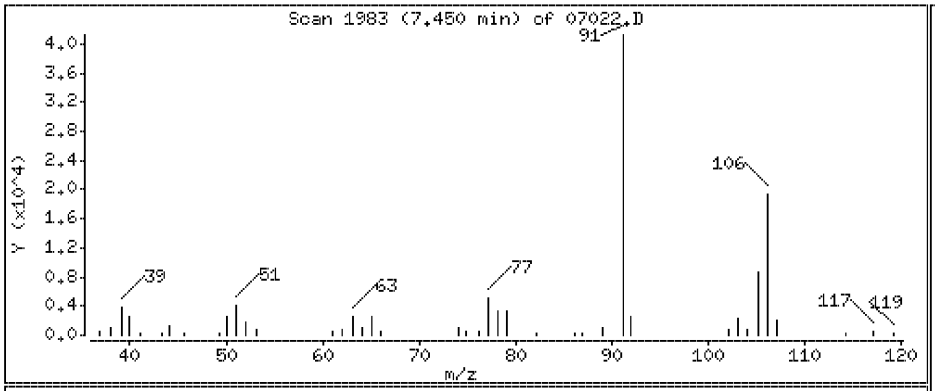
Operator: DR1

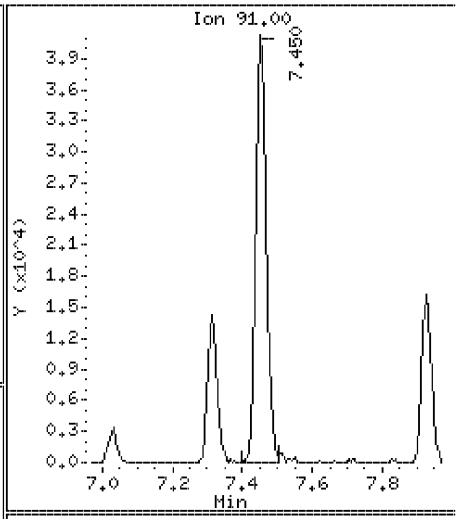
Column phase: J&W DB-5

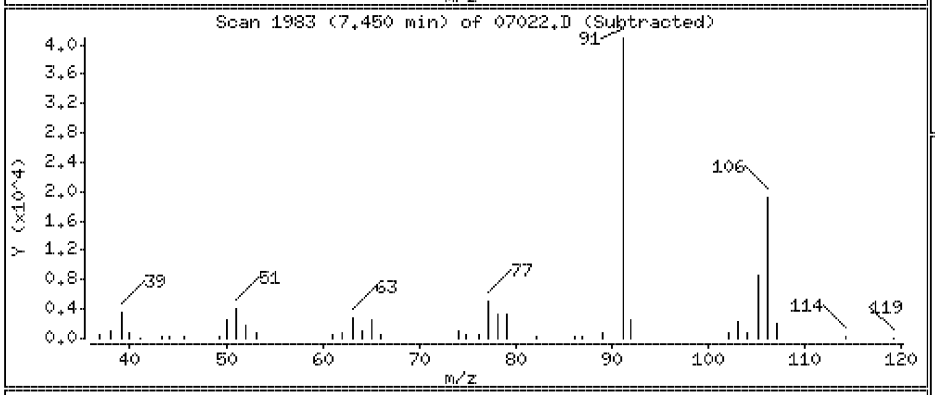
Column diameter: 0.32

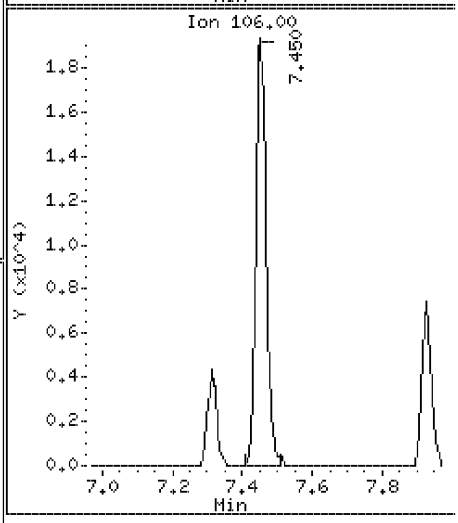
70 m&p-Xylene

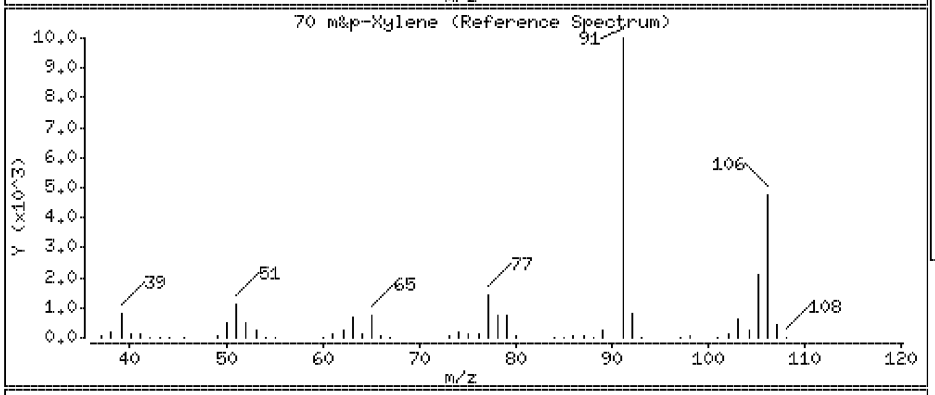
Concentration: 2.30 ppbv

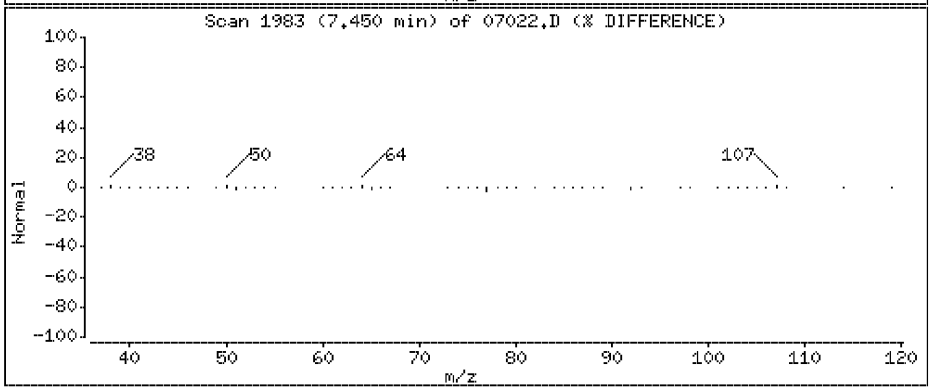












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

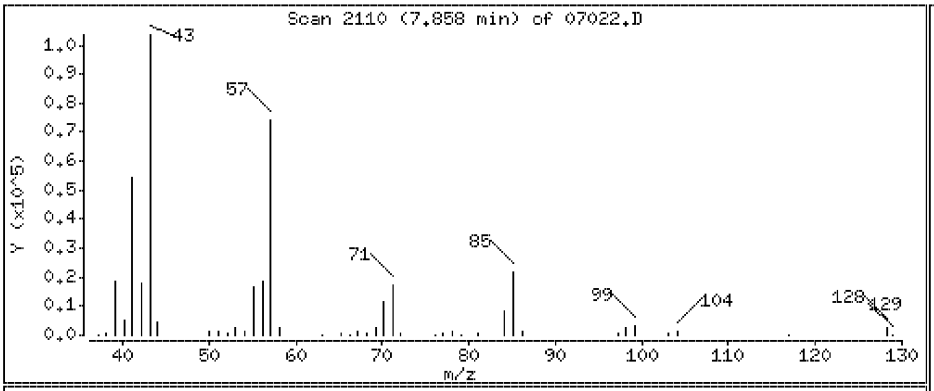
Operator: DR1

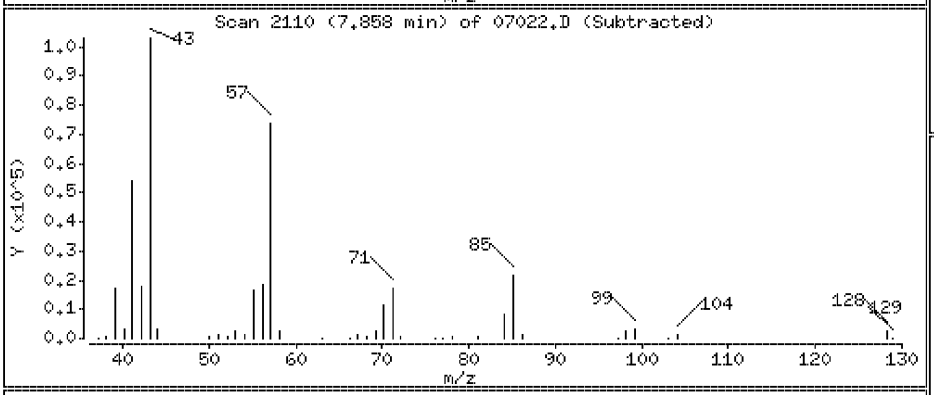
Column phase: J&W DB-5

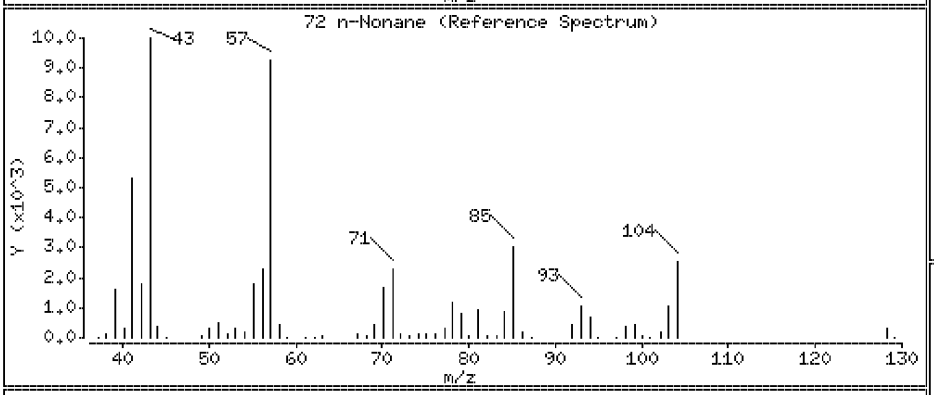
Column diameter: 0.32

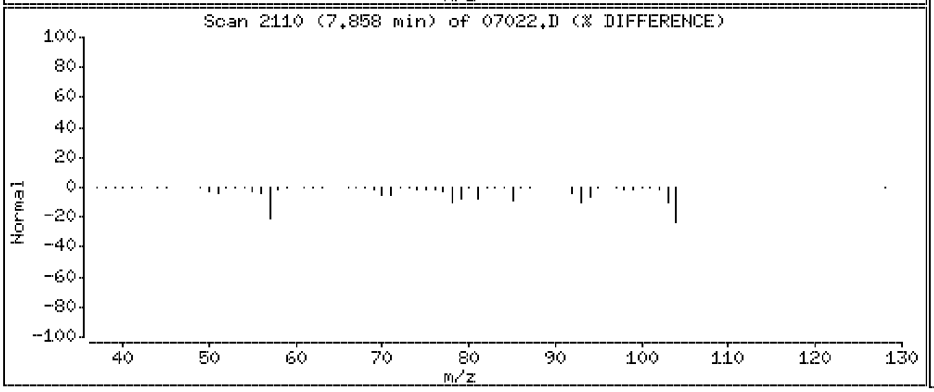
72 n-Nonane

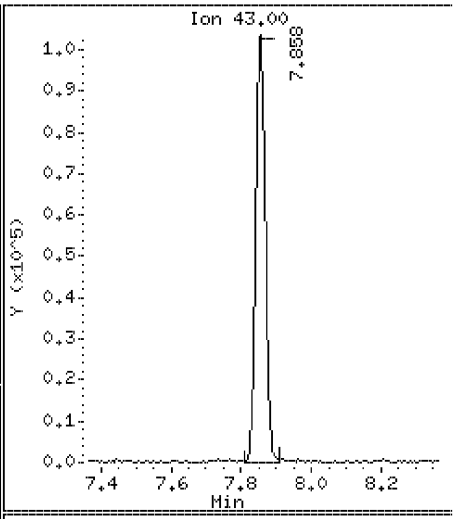
Concentration: 8.80 ppbv

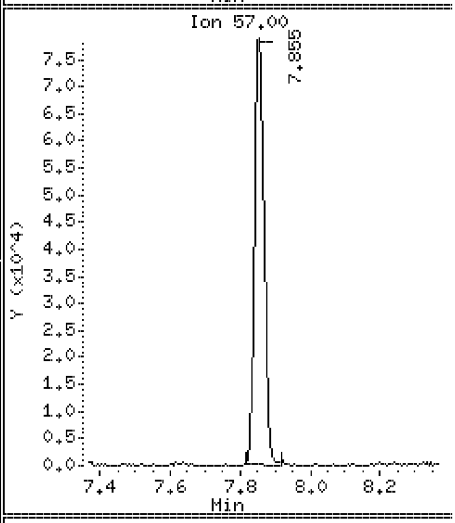


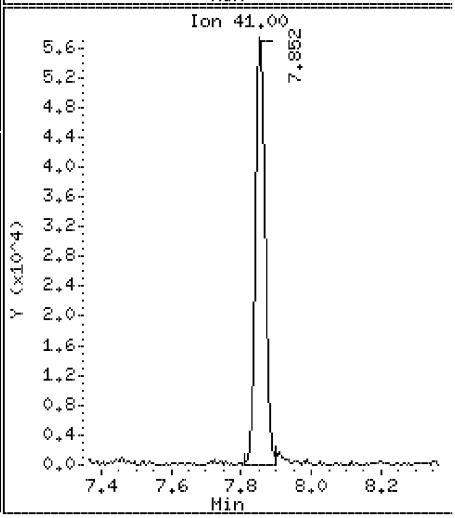












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

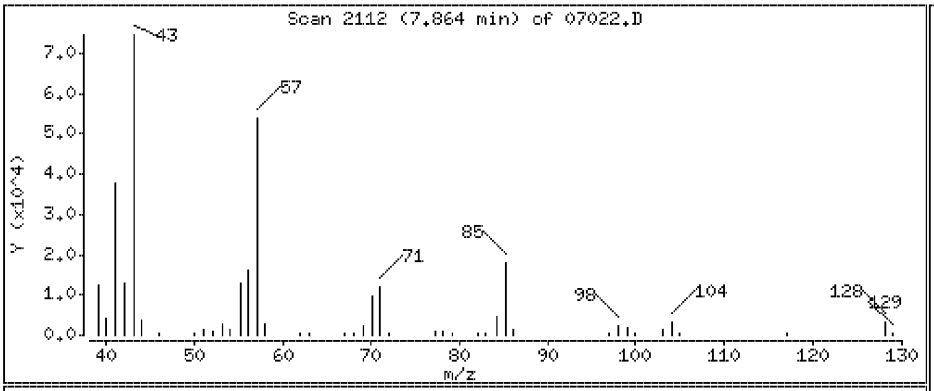
Operator: DR1

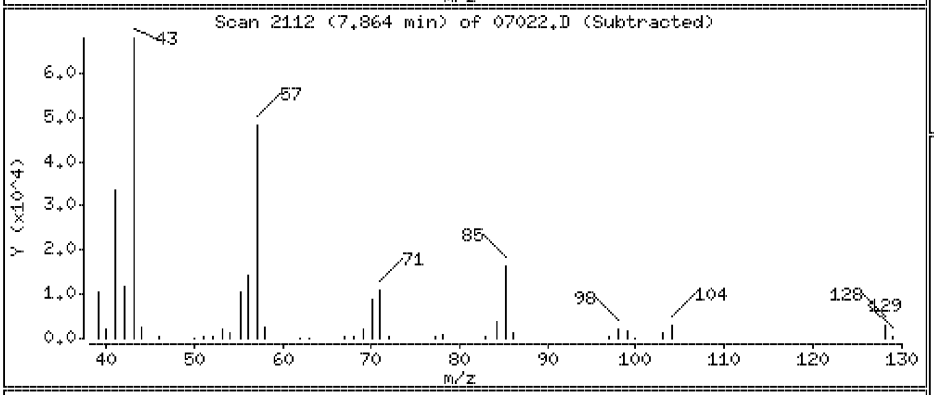
Column phase: J&W DB-5

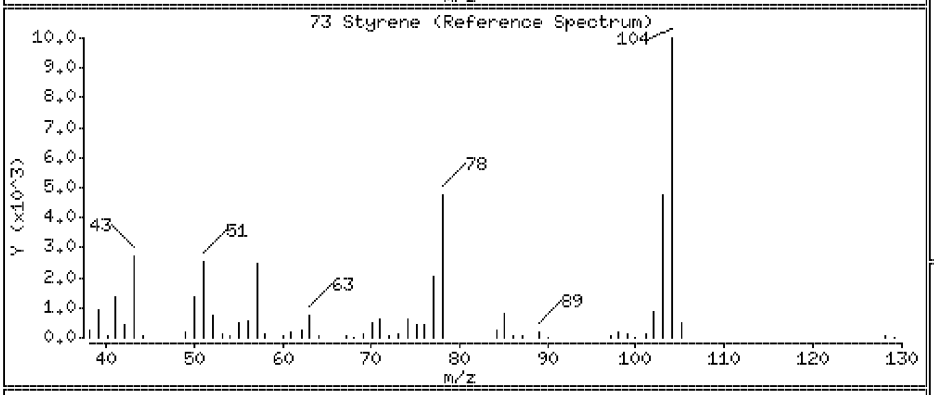
Column diameter: 0.32

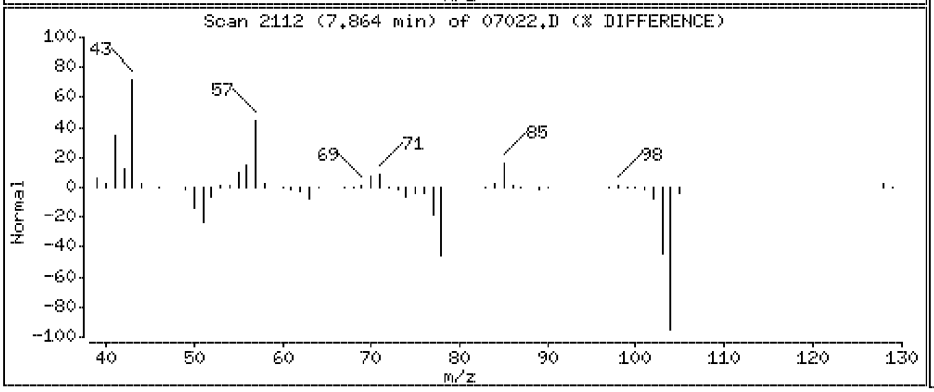
73 Styrene

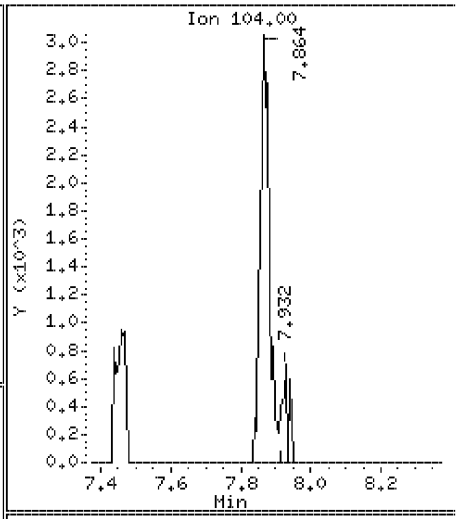
Concentration: 0.243 ppbv

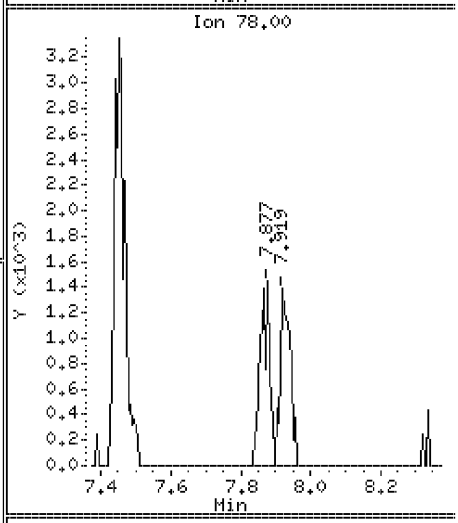


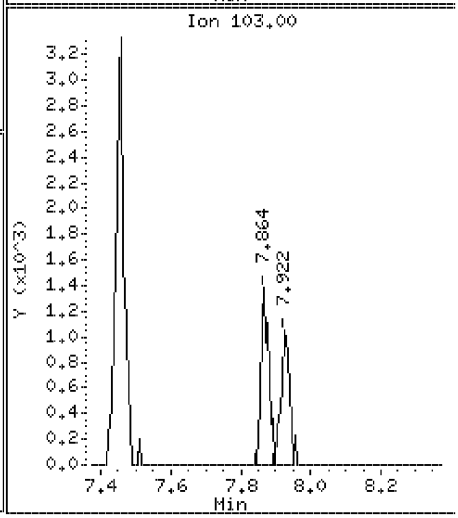












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

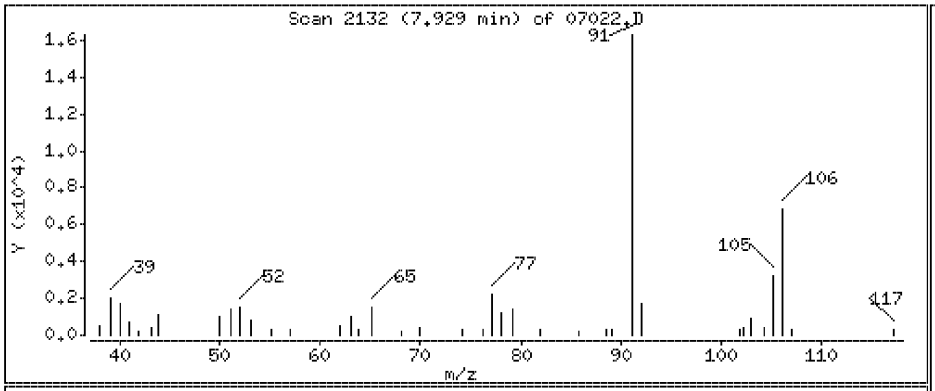
Operator: DR1

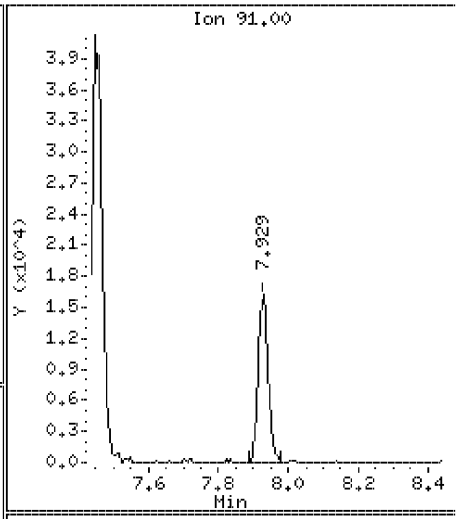
Column phase: J&W DB-5

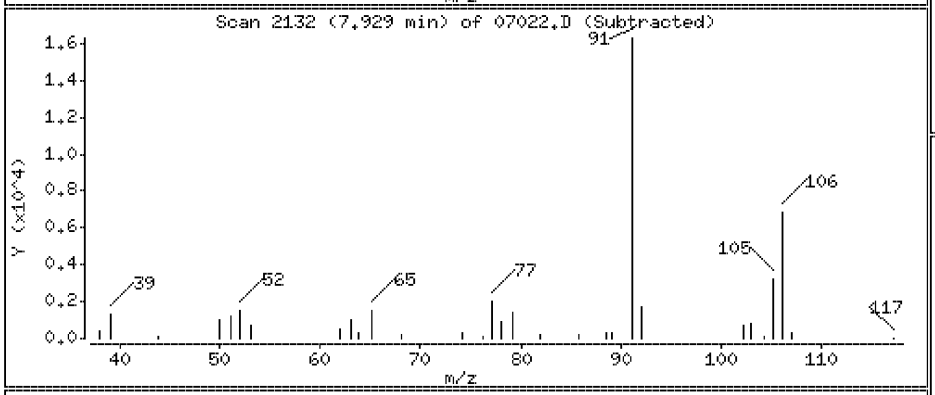
Column diameter: 0.32

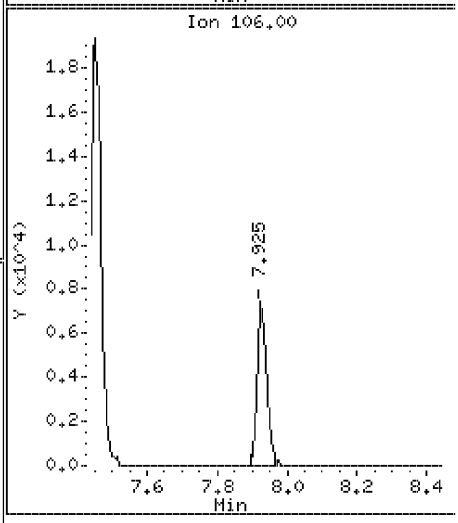
74 o-Xylene

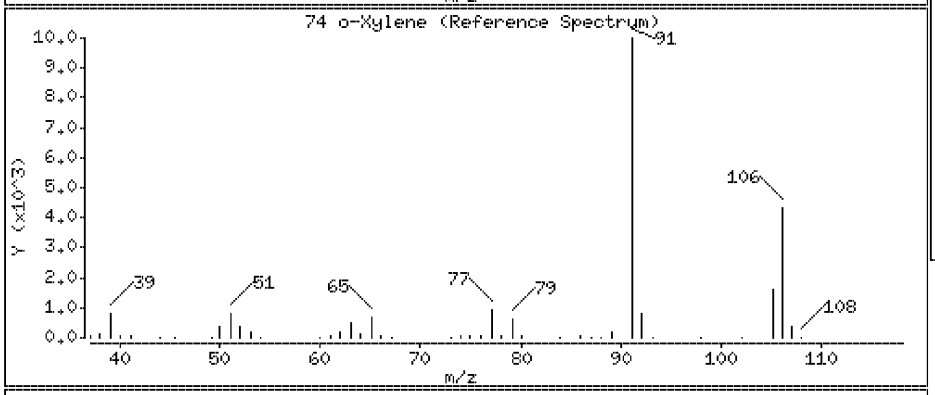
Concentration: 0.925 ppbv

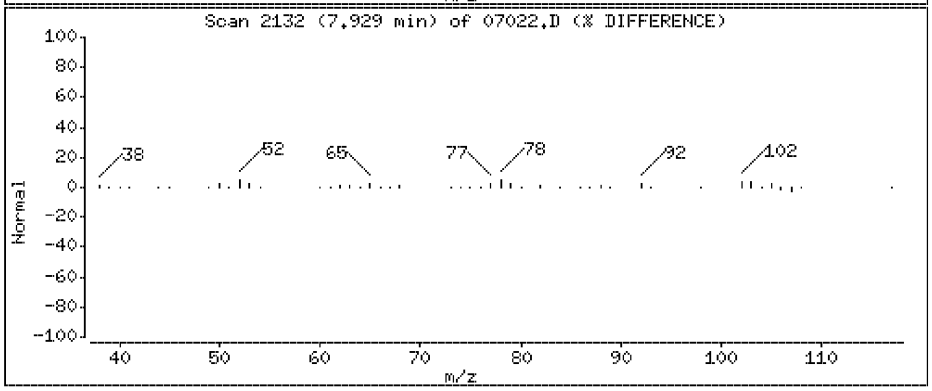












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

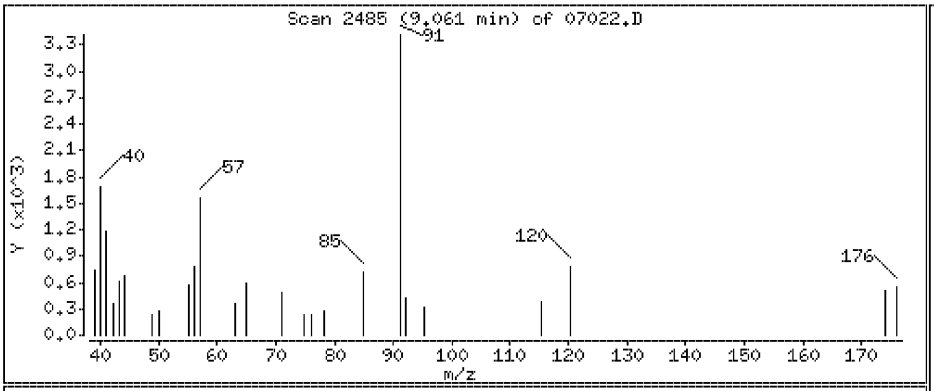
Operator: DR1

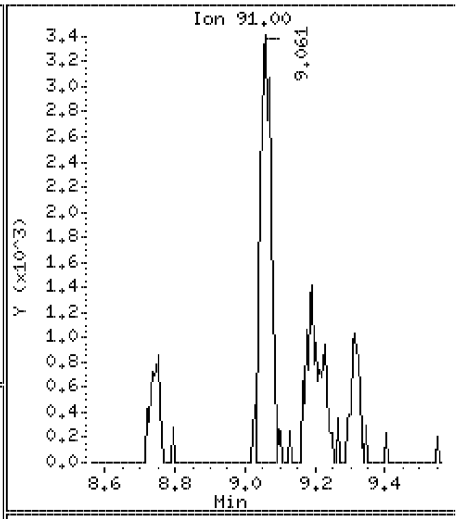
Column phase: J&W DB-5

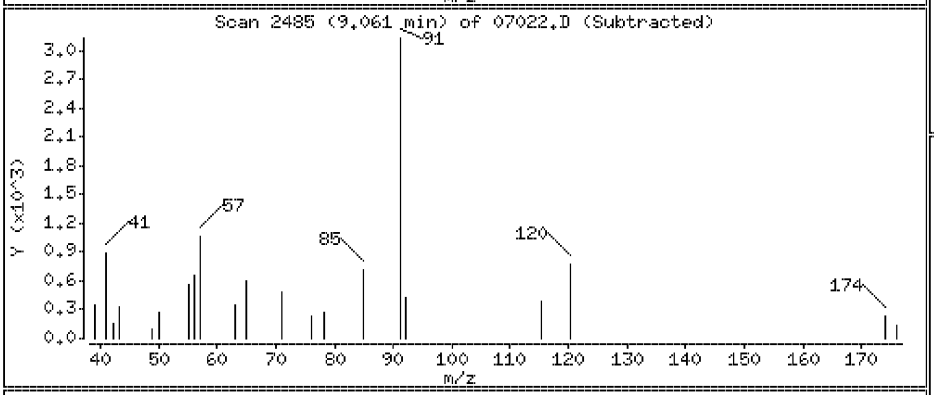
Column diameter: 0.32

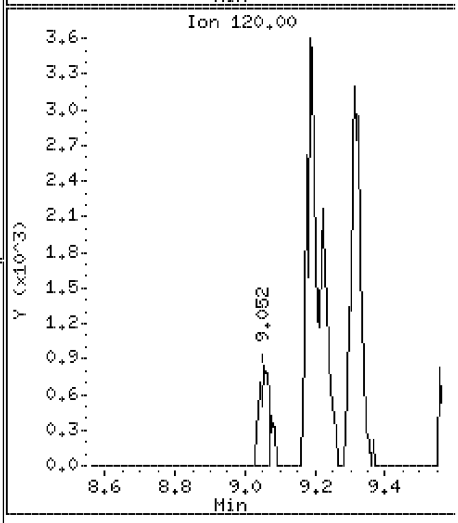
77 N-Propylbenzene

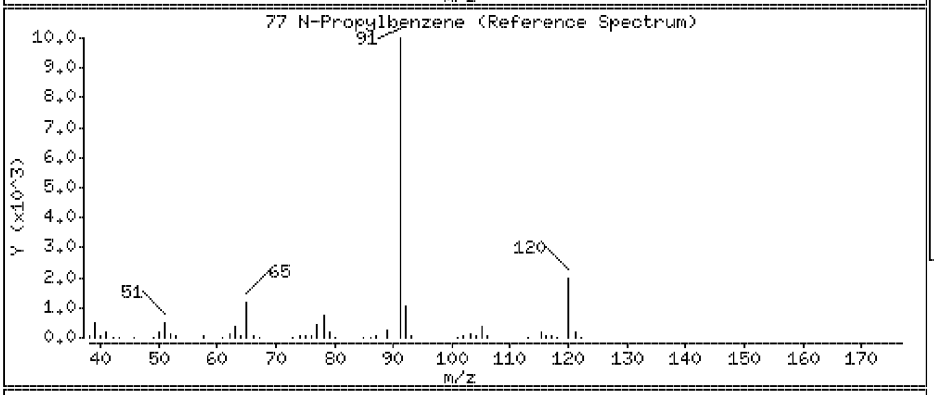
Concentration: 0.154 ppbv

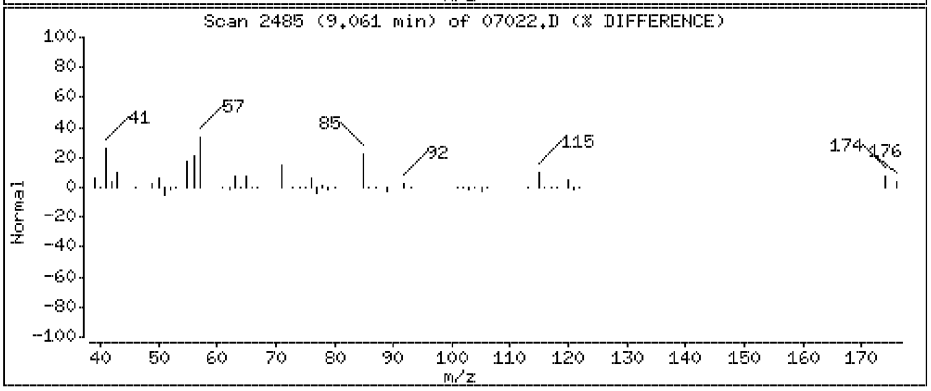












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

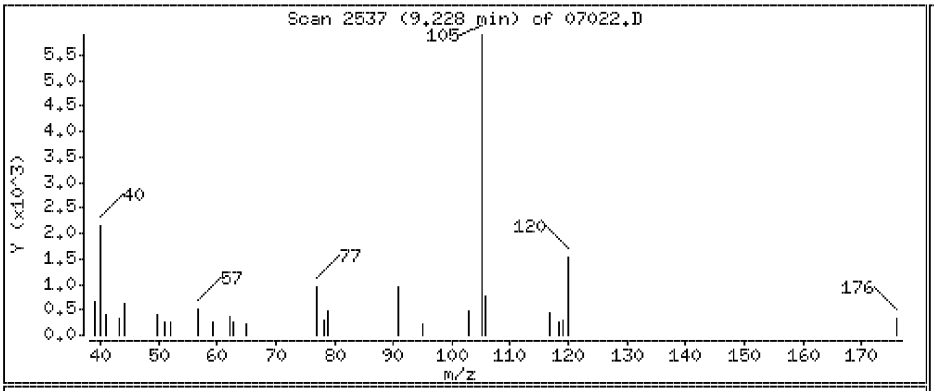
Operator: DR1

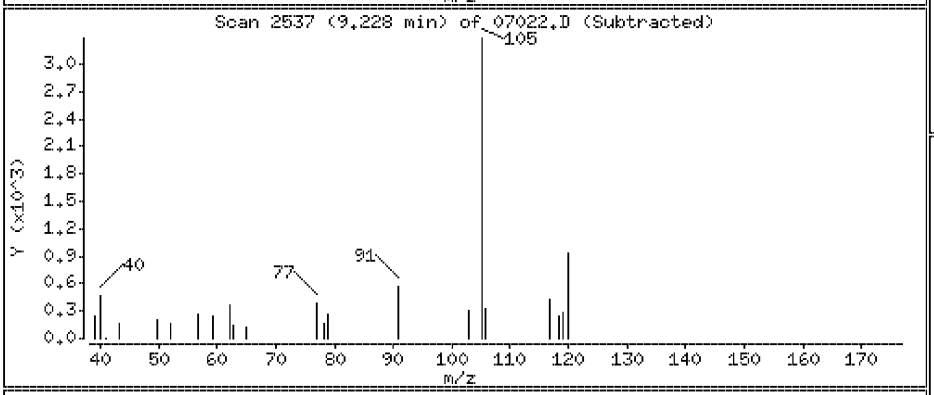
Column phase: J&W DB-5

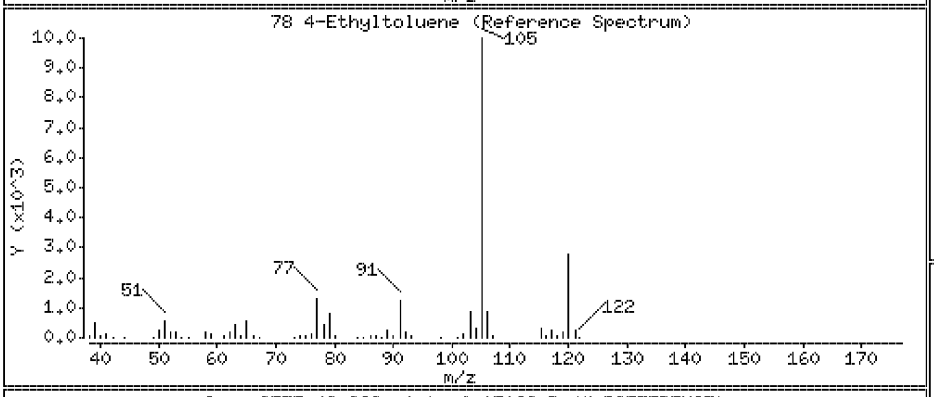
Column diameter: 0.32

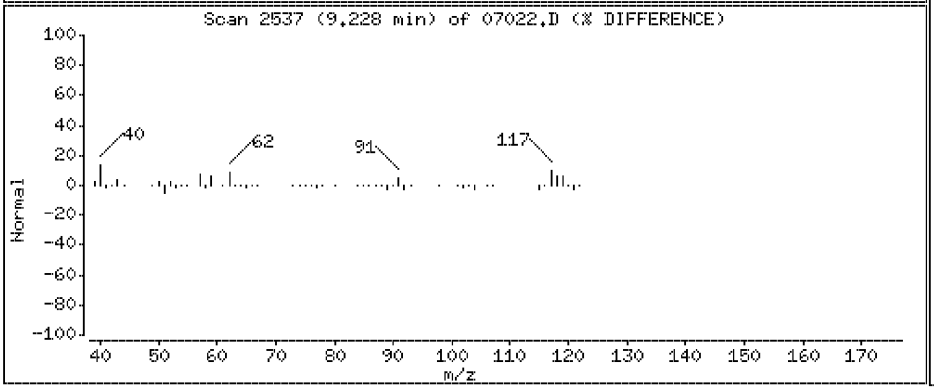
78 4-Ethyltoluene

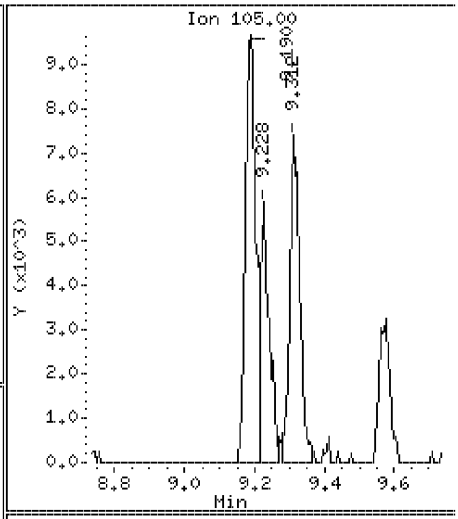
Concentration: 0.279 ppbv

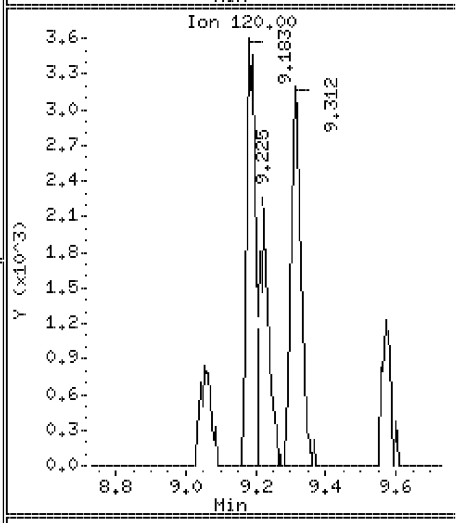


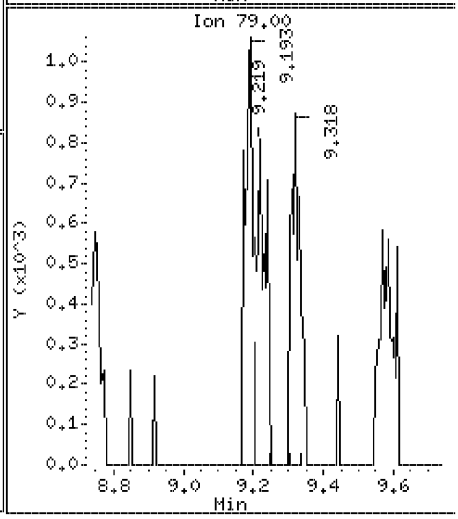












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

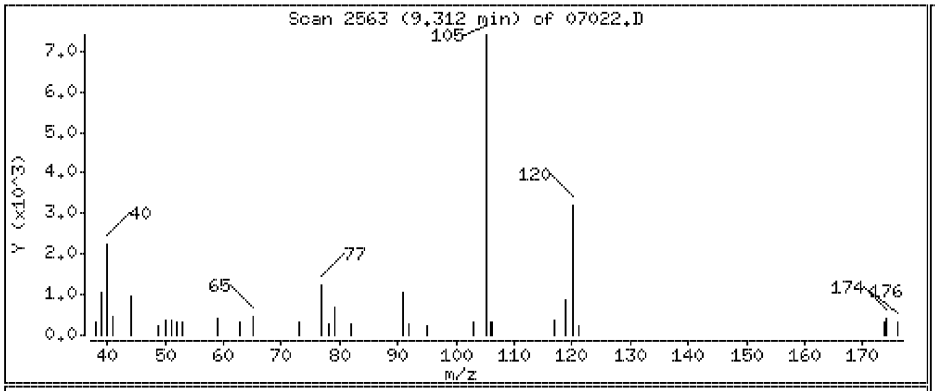
Operator: DR1

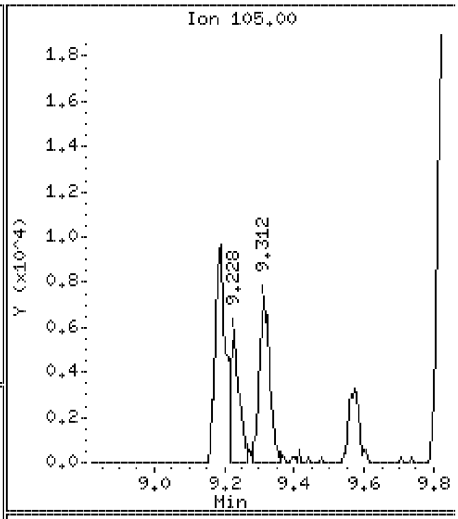
Column phase: J&W DB-5

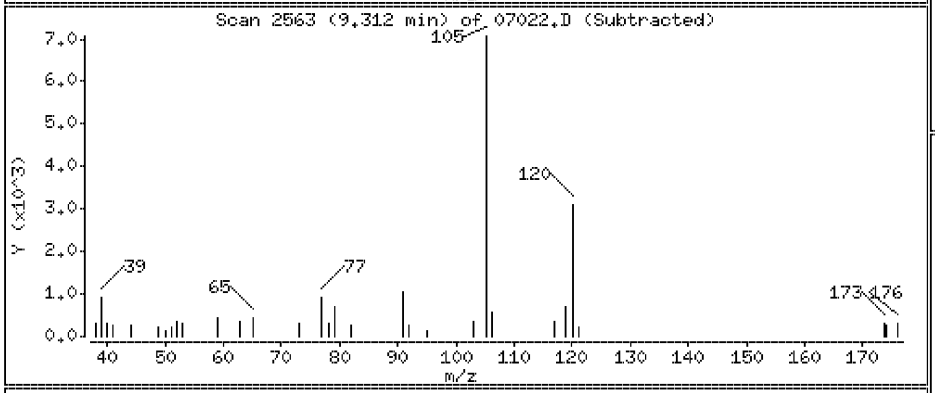
Column diameter: 0.32

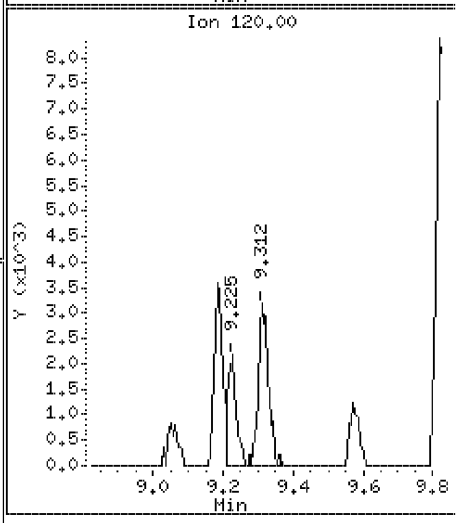
79 1,3,5-Trimethylbenzene

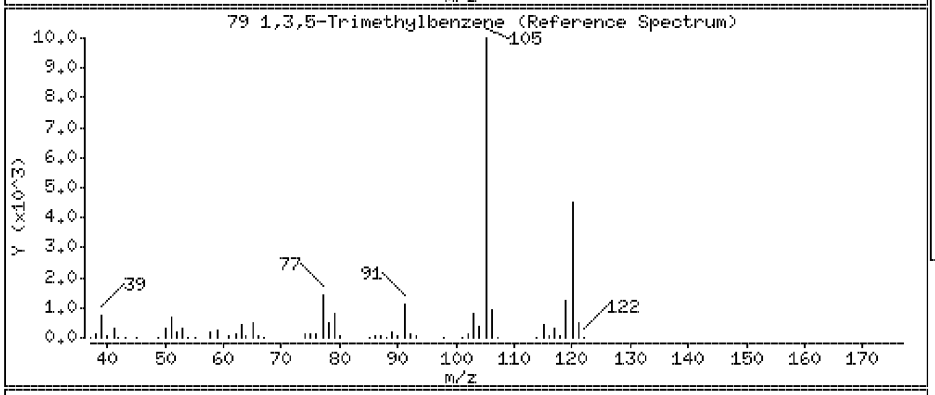
Concentration: 0.349 ppbv

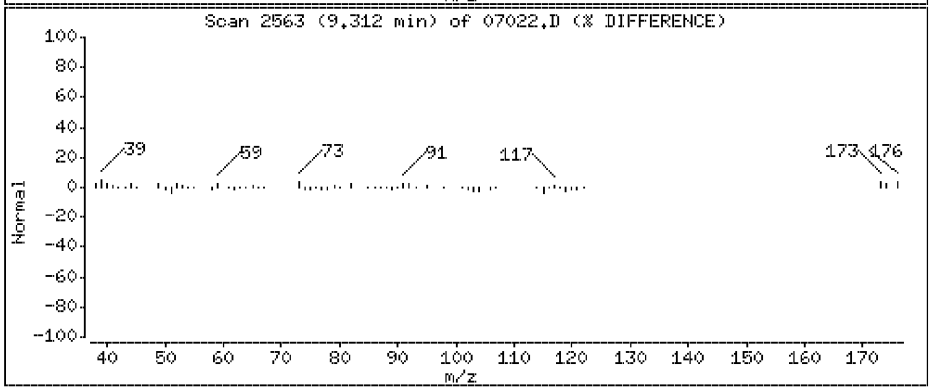












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

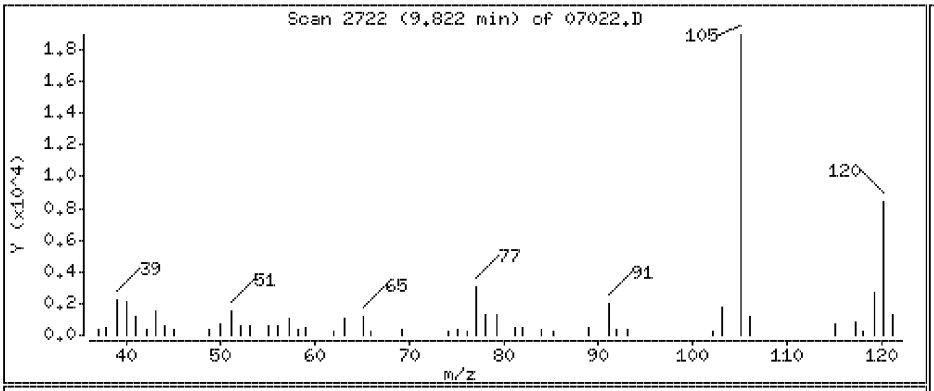
Operator: DR1

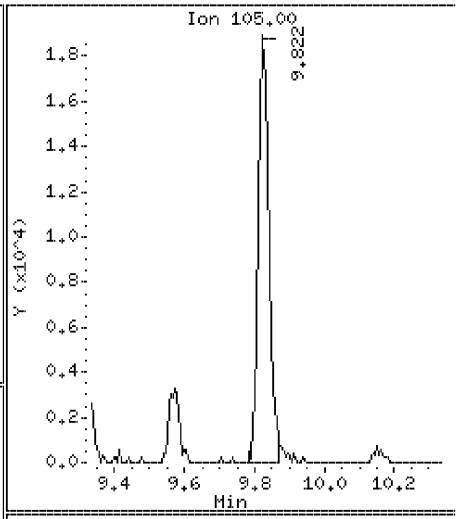
Column phase: J&W DB-5

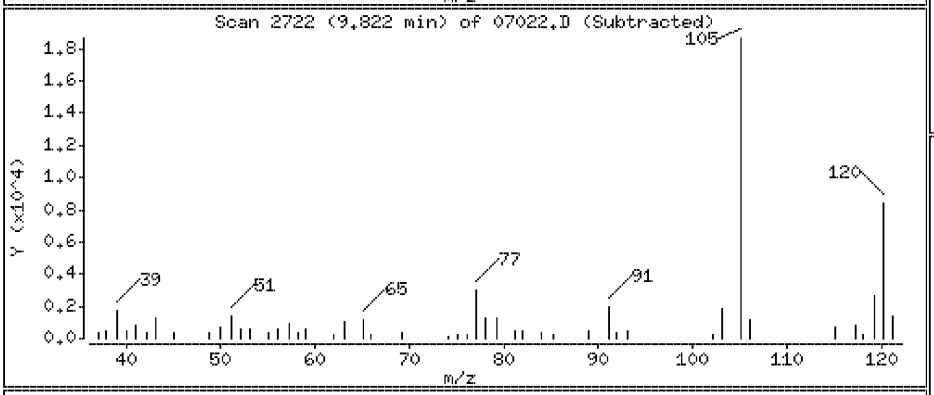
Column diameter: 0.32

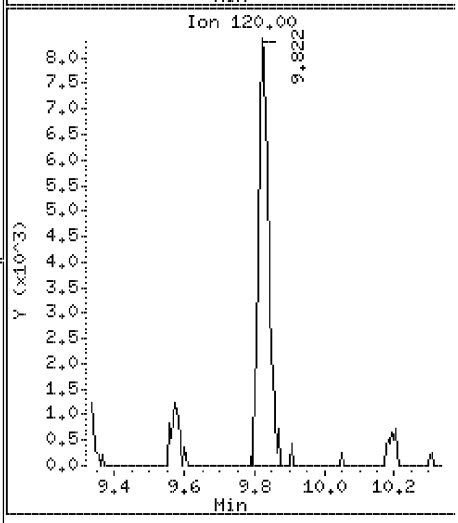
82 1,2,4-Trimethylbenzene

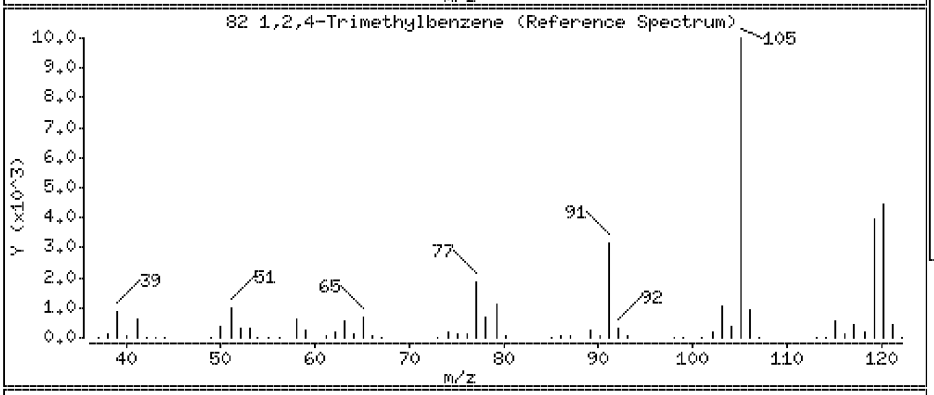
Concentration: 0.938 ppbv

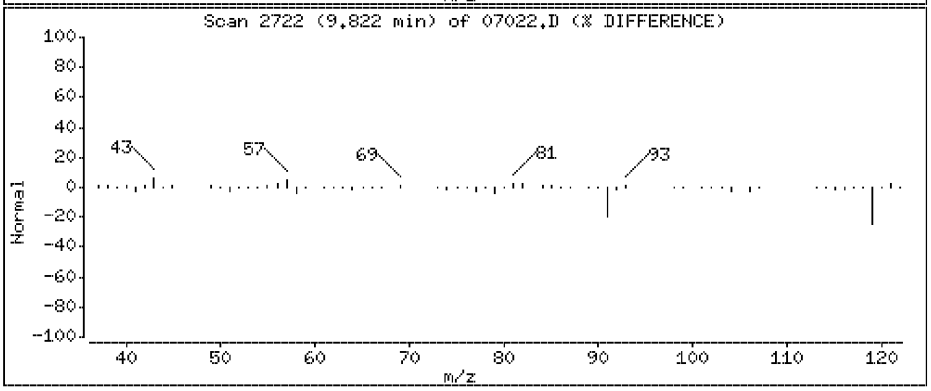












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

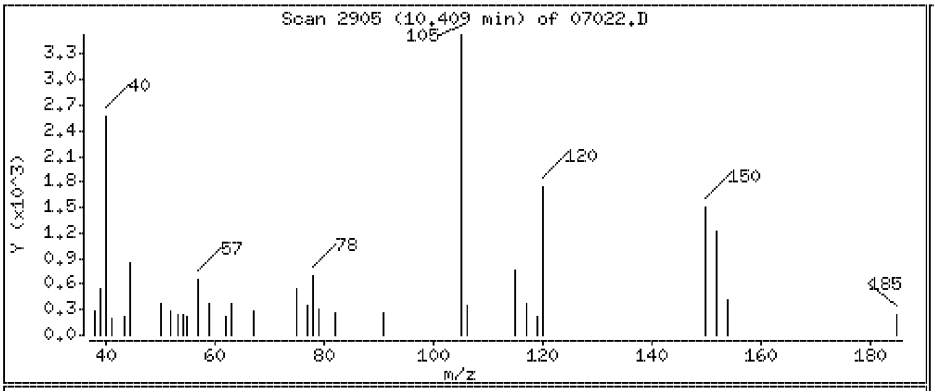
Operator: DR1

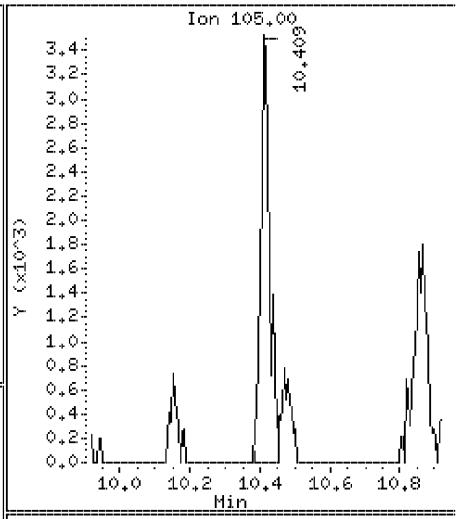
Column phase: J&W DB-5

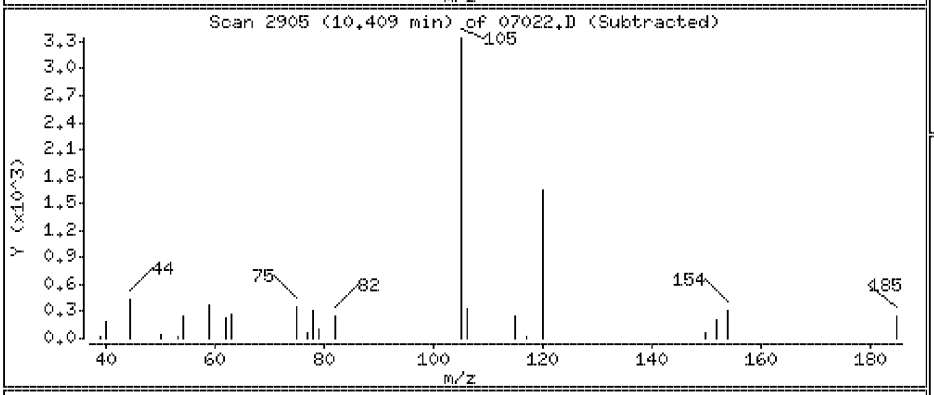
Column diameter: 0.32

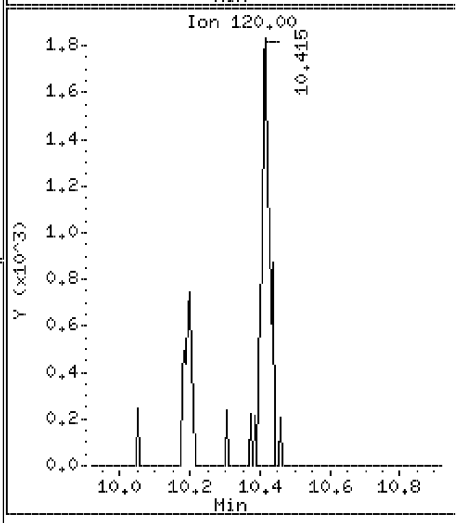
89 1,2,3-Trimethylbenzene

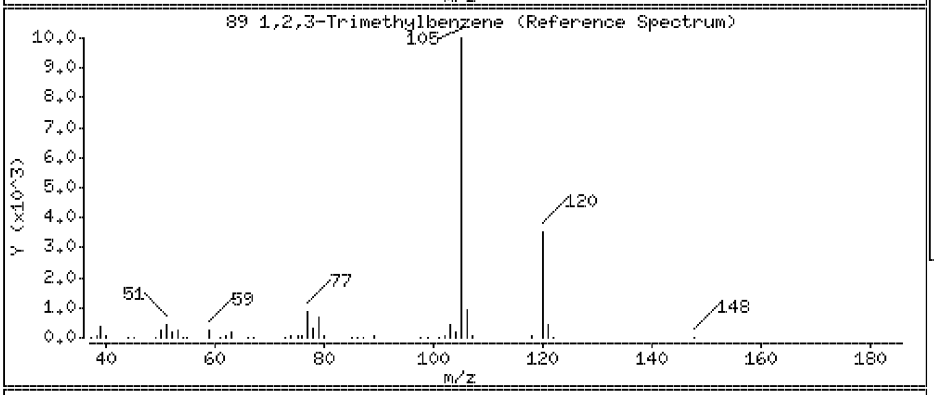
Concentration: 0.202 ppbv

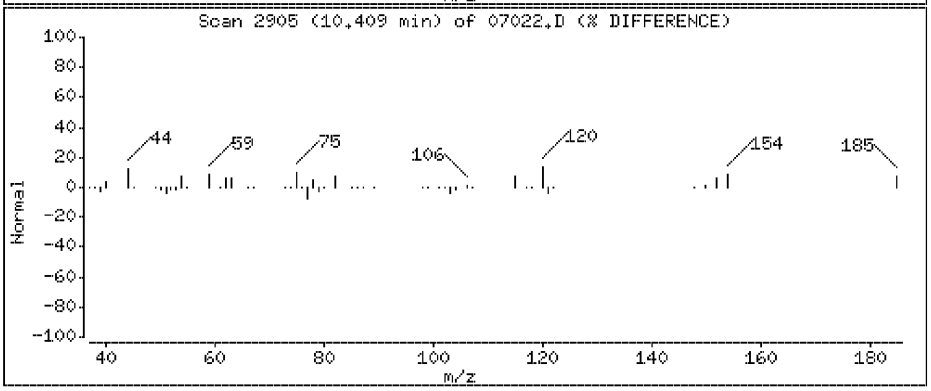












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07022.D

Date : 11-MAR-2017 21:23

Client ID:

Instrument: 10airD.i

Sample Info:

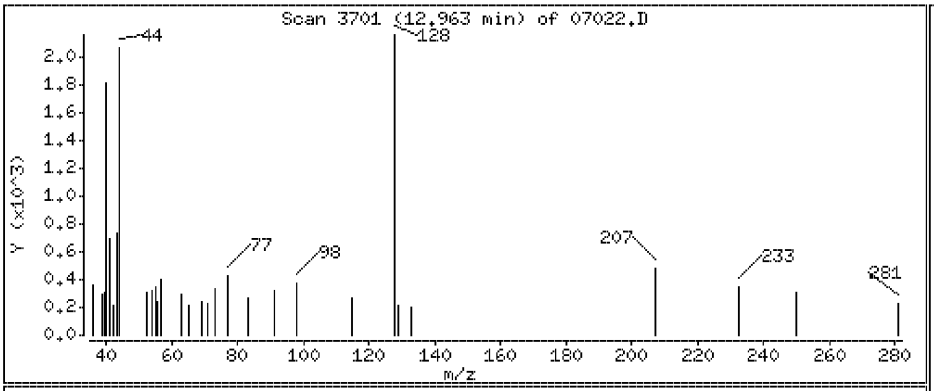
Operator: DR1

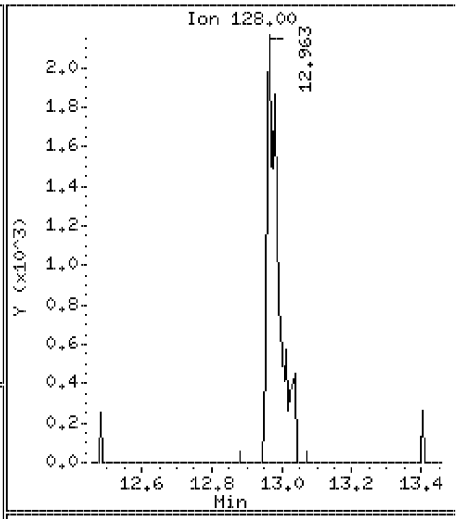
Column phase: J&W DB-5

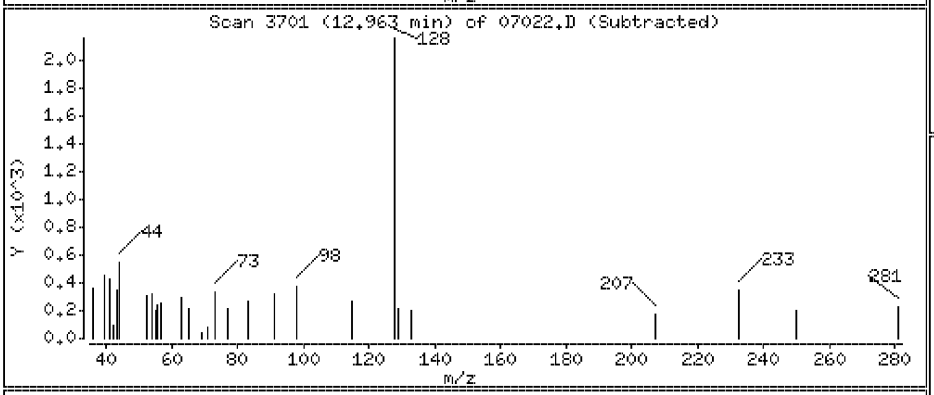
Column diameter: 0.32

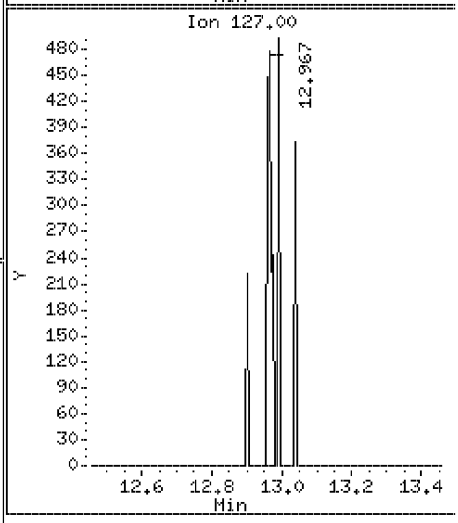
94 Naphthalene

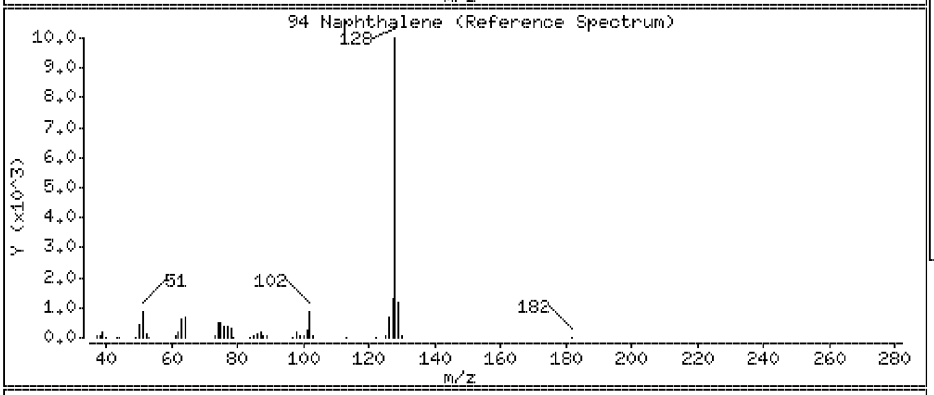
Concentration: 0.453 ppbv

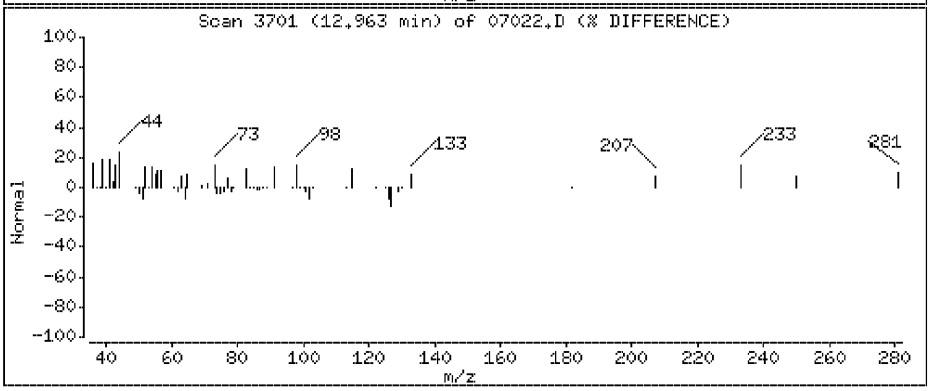






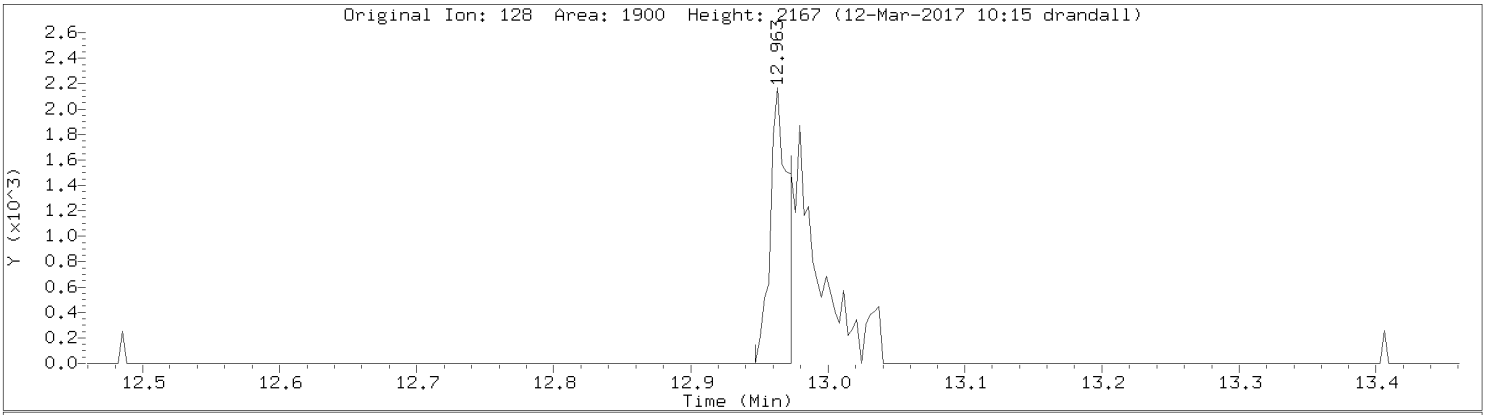


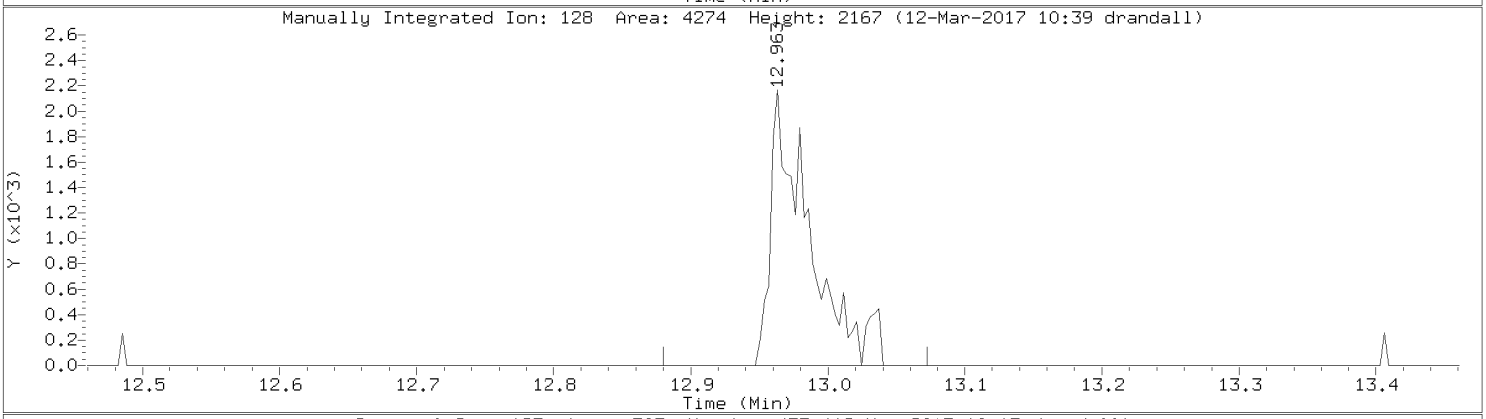


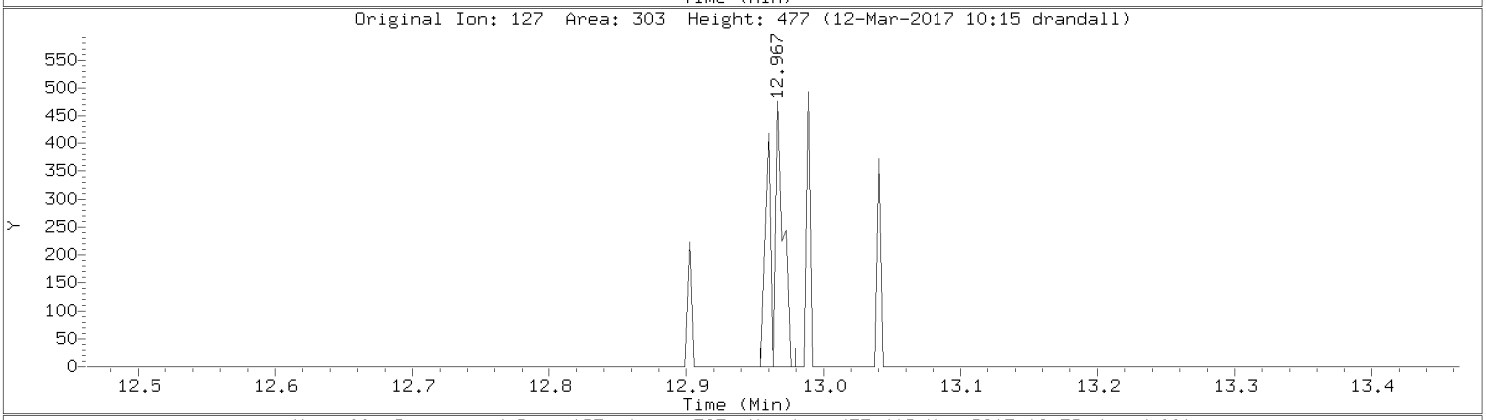


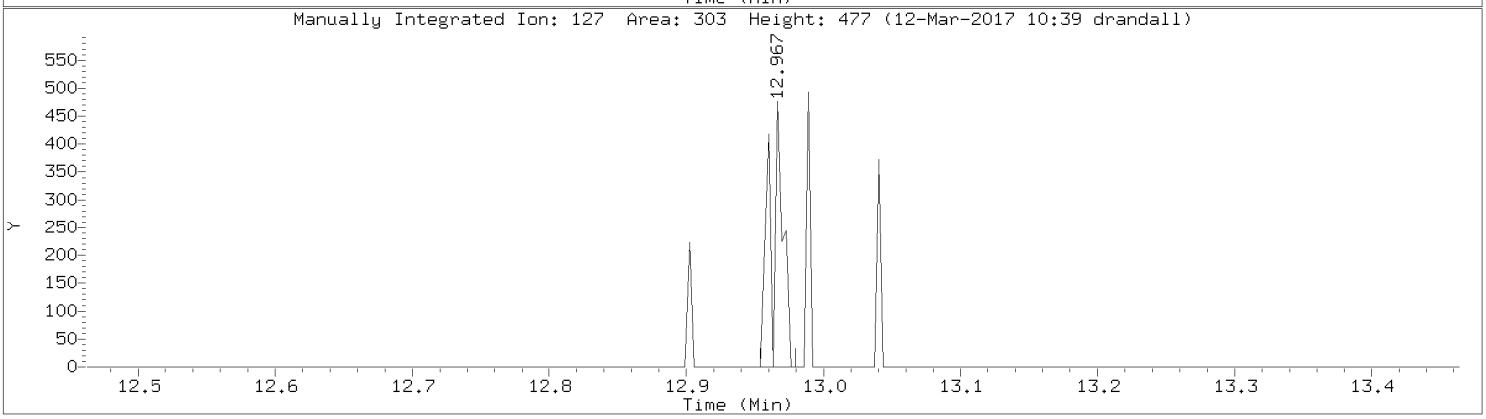
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07022.d
Injection Date: 11-MAR-2017 21:23
Instrument: 10airD.i
Lab Sample ID: 10380372014

Compound: Naphthalene
CAS Number: 91-20-3



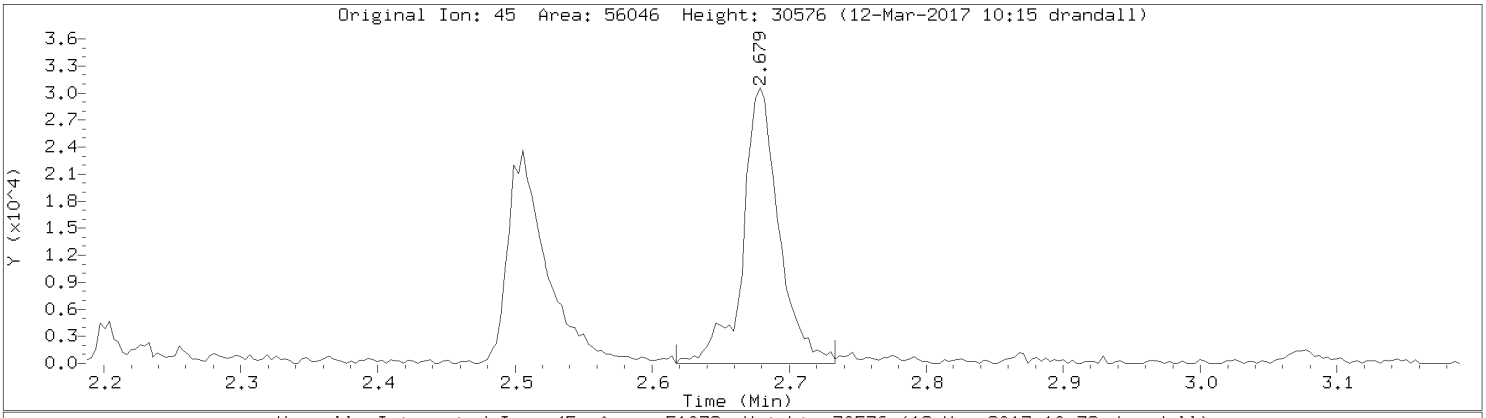


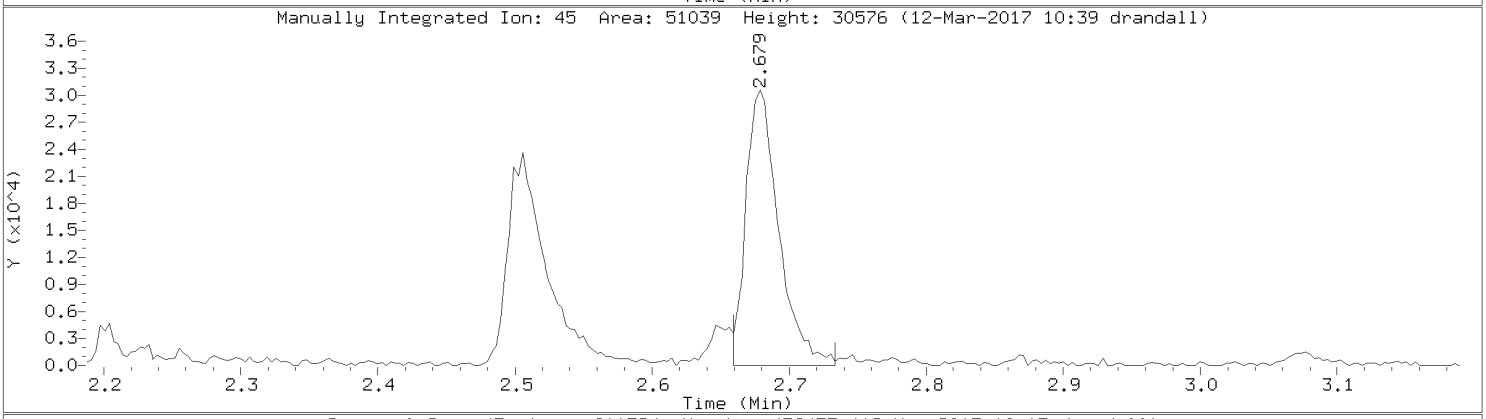


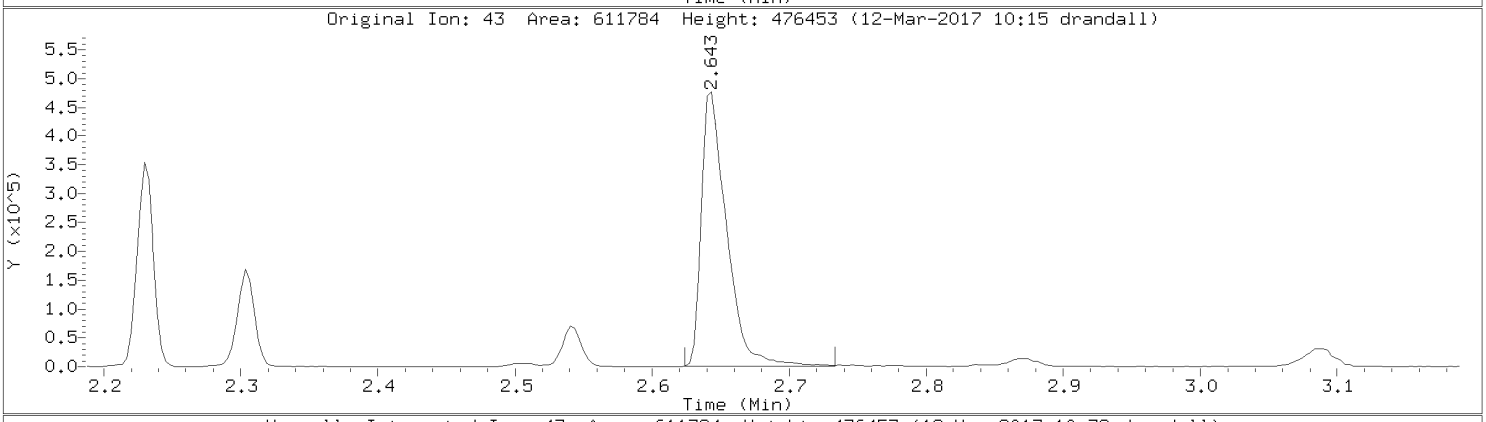


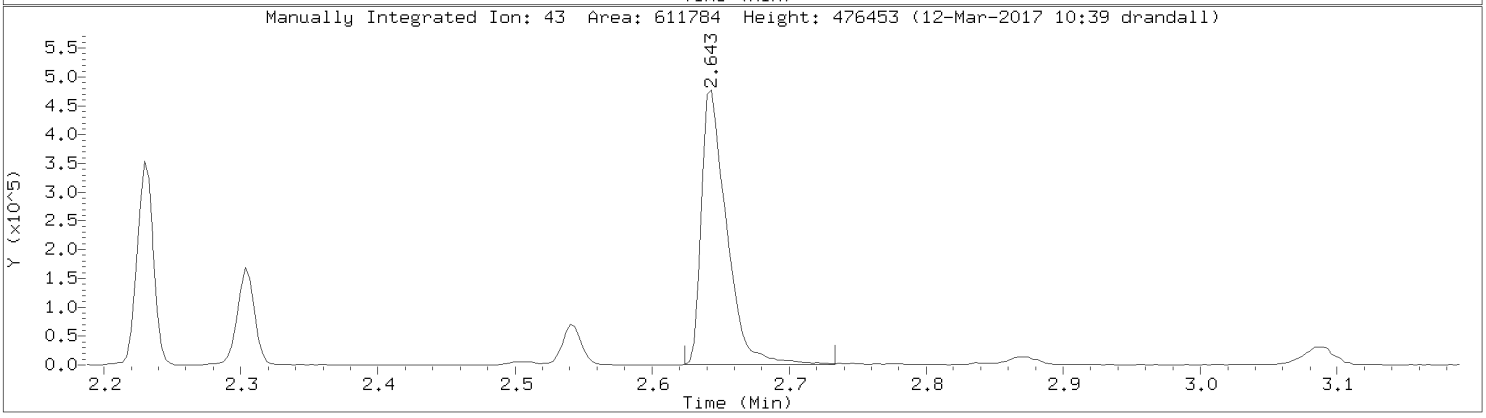
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07022.d
Injection Date: 11-MAR-2017 21:23
Instrument: 10airD.i
Lab Sample ID: 10380372014

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Data File: \\192.168.10.12\chem\10airD.i\031217.b\07114.d
Report Date: 13-Mar-2017 07:45

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031217.b\07114.d
Lab Smp Id: 10380372014
Inj Date : 12-MAR-2017 16:30
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Meth Date : 13-Mar-2017 07:39 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 14
Dil Factor: 62.85000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	62.850	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	25 Methylene chloride	49	2.858	2.871	(0.675)	43424	1.20691	75.9
$	32 Hexane-d14(S)	66	3.259	3.272	(0.770)	1275494	8.66956	8.67
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	4.235	4.251	(1.000)	2771287	10.0000	
	51 Trichloroethene	130	4.562	4.575	(1.077)	17425	0.52053	32.7
$	59 Toluene-d8 (S)	98	5.557	5.566	(1.312)	2576180	9.27723	9.28
	66 Tetrachloroethene	166	6.397	6.407	(0.911)	12075	0.28924	18.2
*	67 Chlorobenzene - d5	117	7.023	7.033	(1.000)	1888417	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	10.190	10.200	(1.451)	1042989	9.01453	9.01

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07114.d
Report Date: 13-Mar-2017 07:45

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07114.d
Lab Smp Id: 10380372014
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 12-MAR-2017
Calibration Time: 10:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

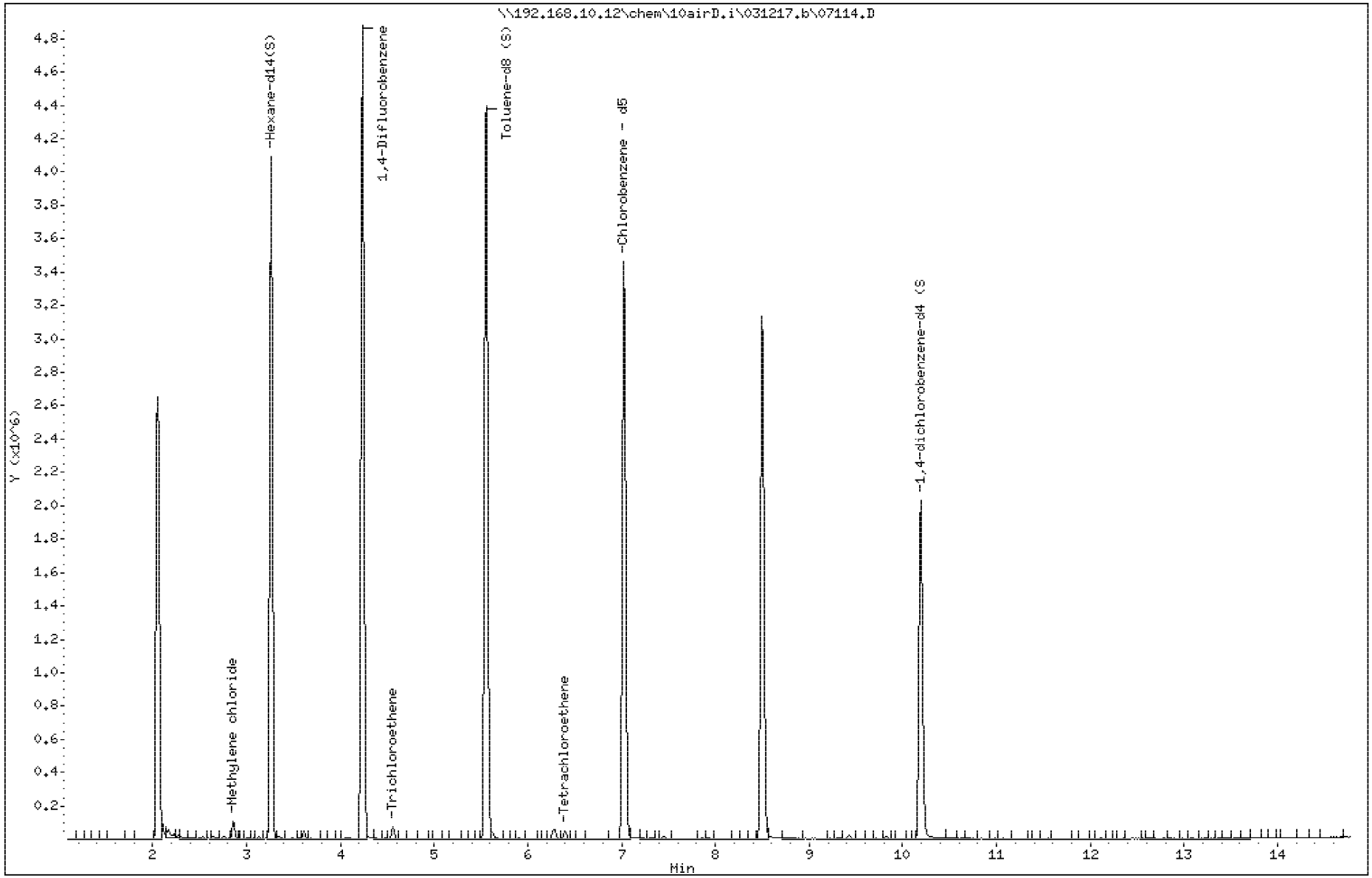
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	2771287	-26.83
67 Chlorobenzene - d	3280875	1968525	4593225	1888417	-42.44 <-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.38
67 Chlorobenzene - d	7.03	6.70	7.36	7.02	-0.14

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07114.D
Date : 12-MAR-2017 16:30
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07114.D

Date : 12-MAR-2017 16:30

Client ID:

Instrument: 10airD.i

Sample Info:

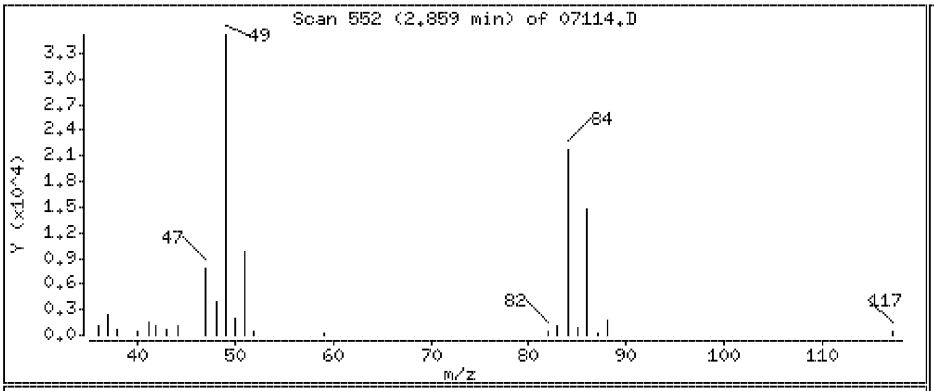
Operator: EMC

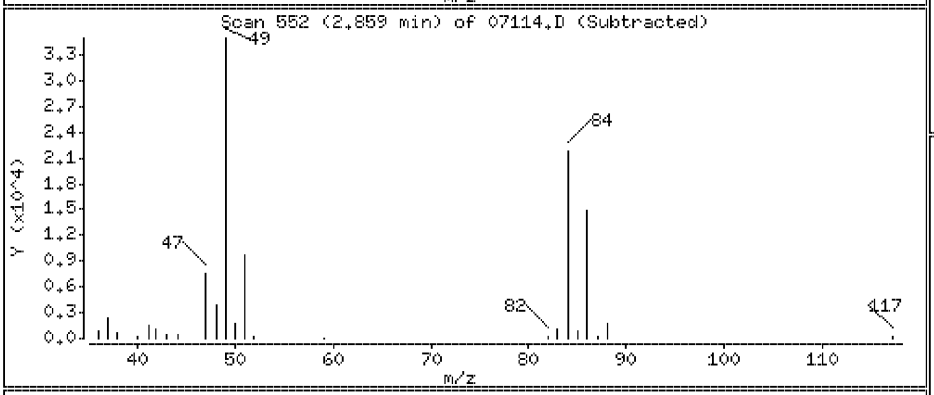
Column phase: J&W DB-5

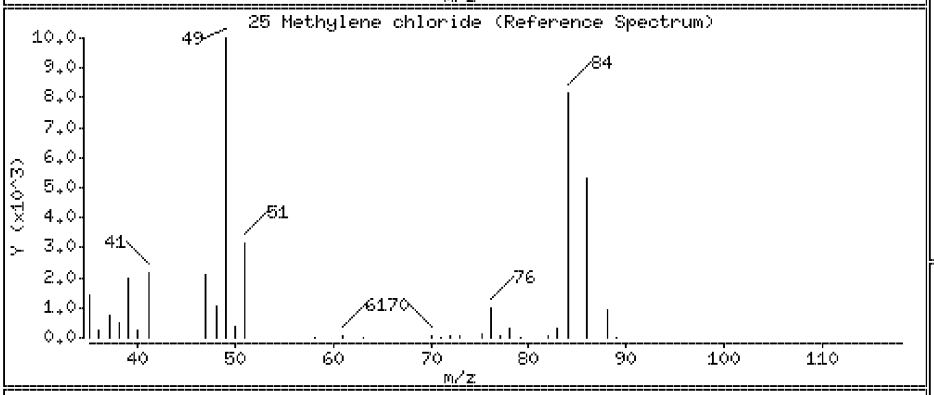
Column diameter: 0.32

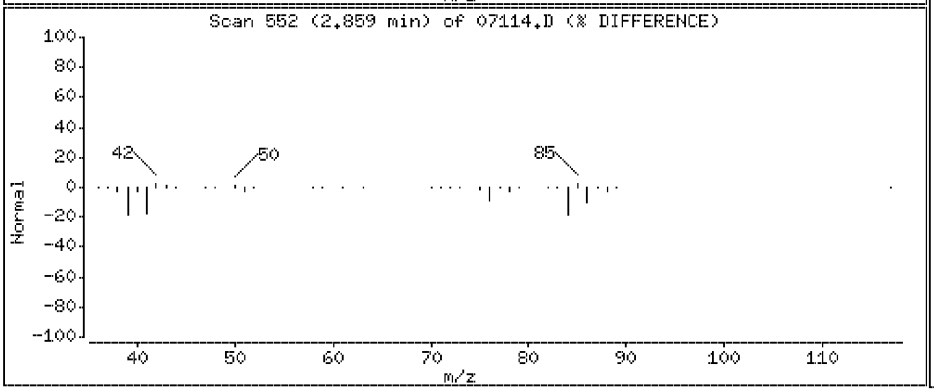
25 Methylene chloride

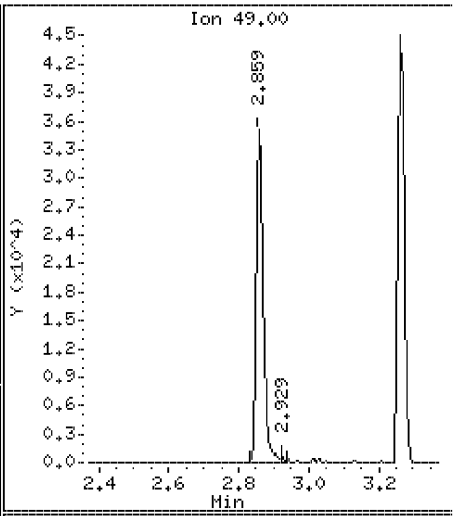
Concentration: 75.9 ppbv

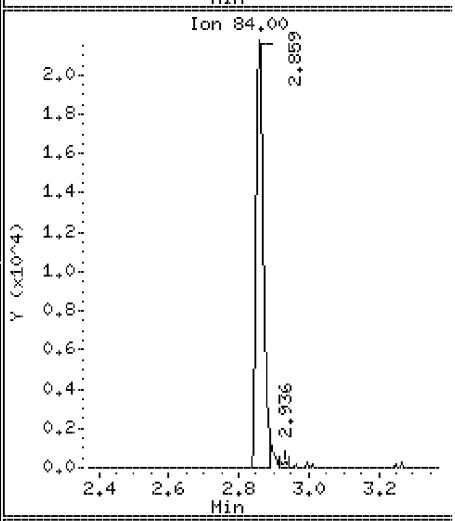


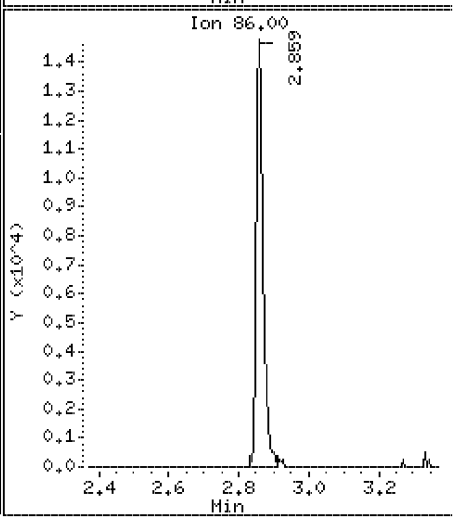












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07114.D

Date : 12-MAR-2017 16:30

Client ID:

Instrument: 10airD.i

Sample Info:

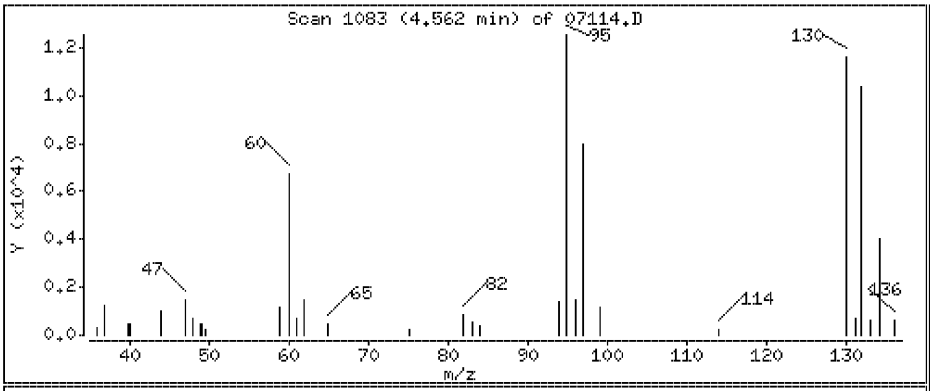
Operator: EMC

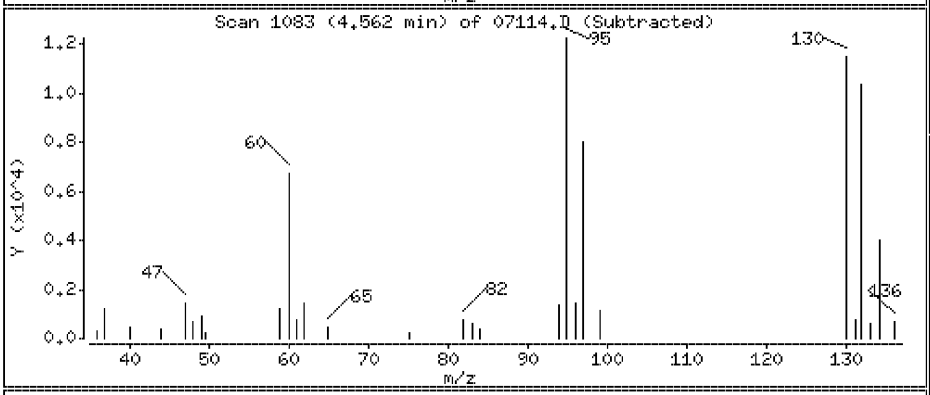
Column phase: J&W DB-5

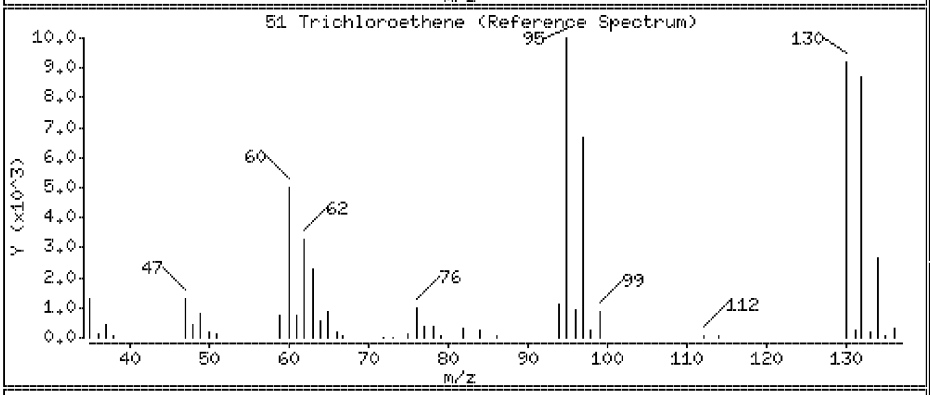
Column diameter: 0.32

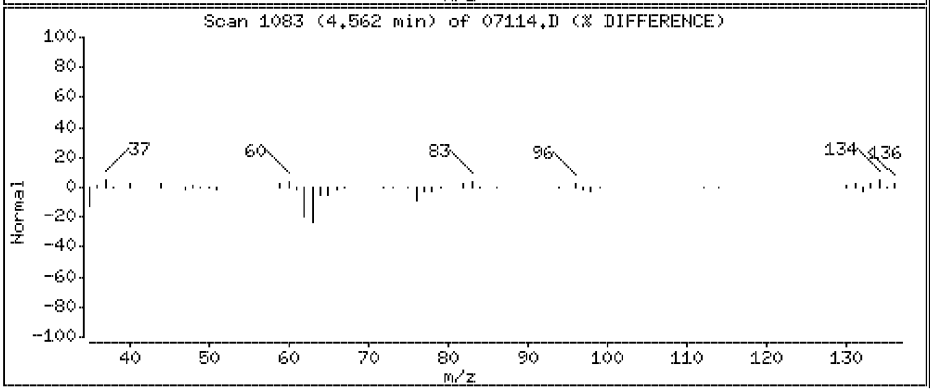
51 Trichloroethene

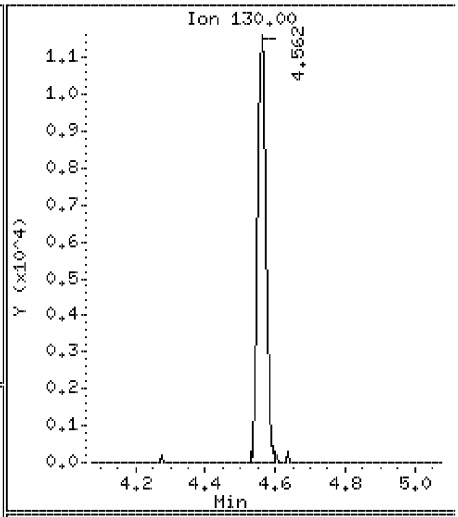
Concentration: 32.7 ppbv

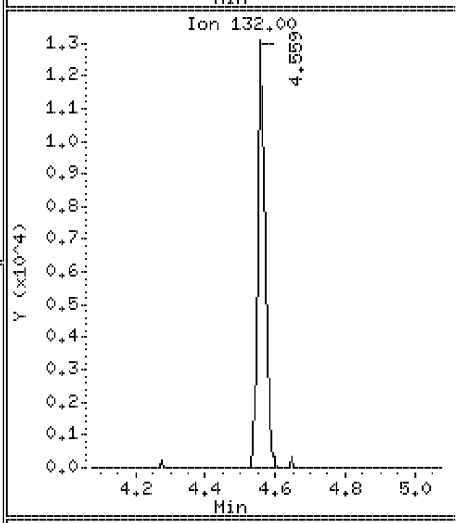


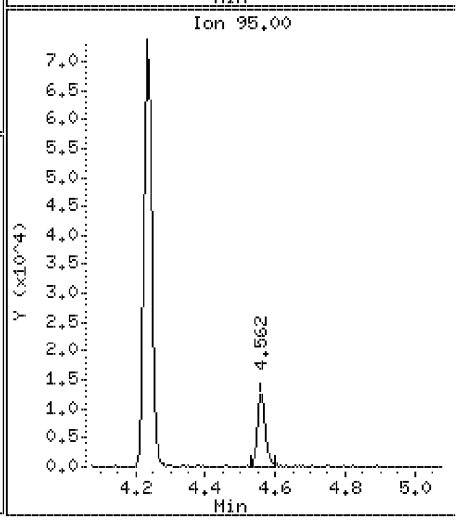












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07114.D

Date : 12-MAR-2017 16:30

Client ID:

Instrument: 10airD.i

Sample Info:

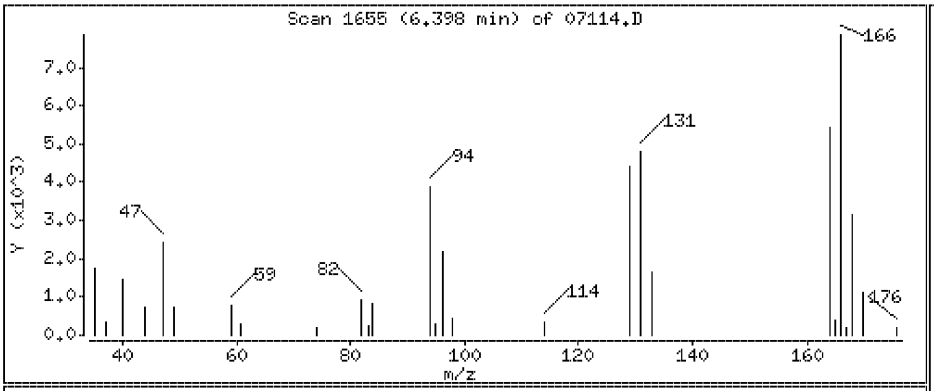
Operator: EMC

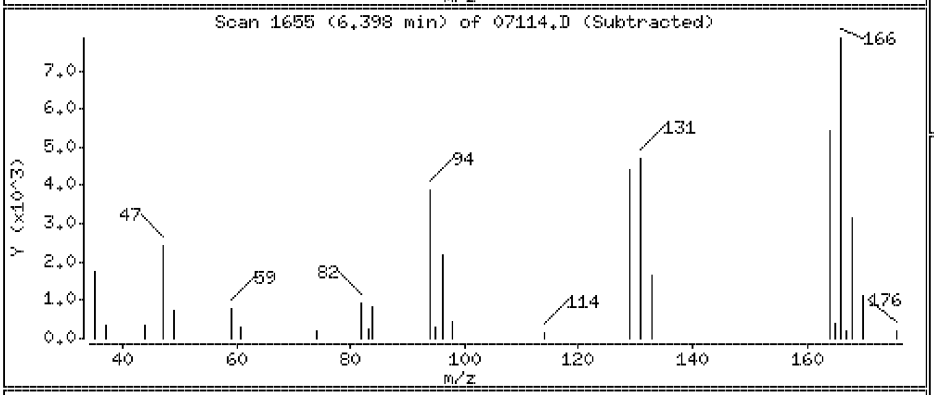
Column phase: J&W DB-5

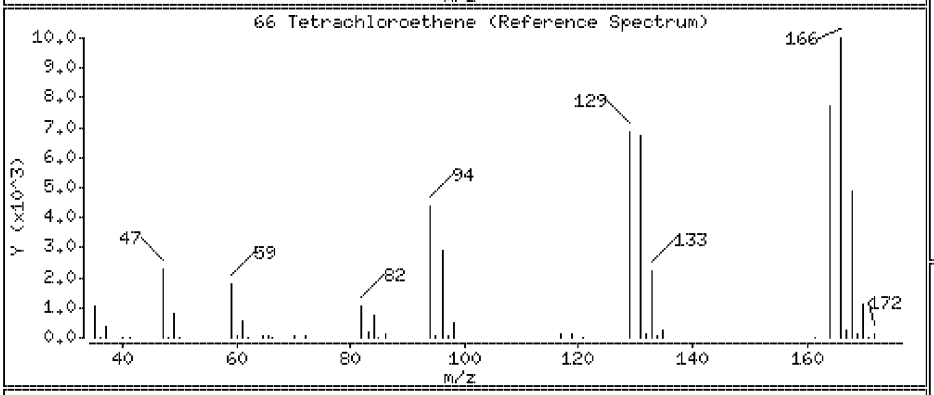
Column diameter: 0.32

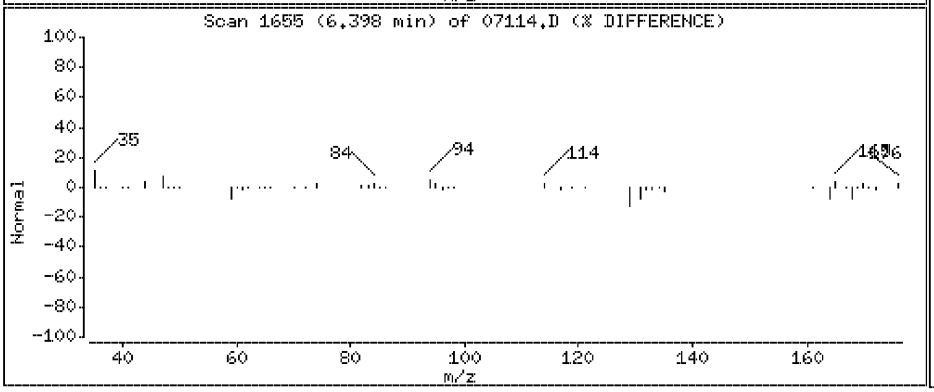
66 Tetrachloroethene

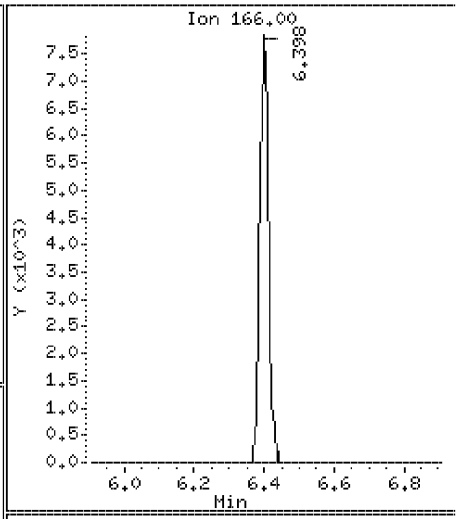
Concentration: 18.2 ppbv

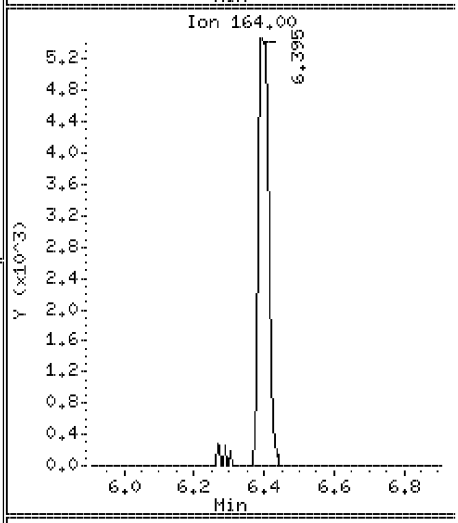


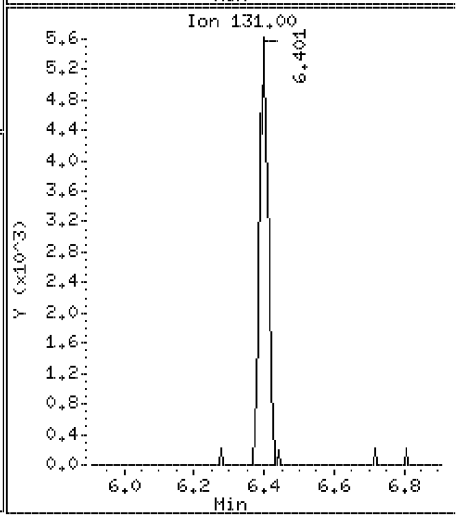












Data File: \\192.168.10.12\chem\10airD.i\031217.b/07114.d
Injection Date: 12-MAR-2017 16:30
Instrument: 10airD.i
Lab Sample ID: 10380372014
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_5_20170226 **Lab ID: 10380372015** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**60.4**	ug/m3	10.1	1.4	1.68		03/11/17 21:54	67-64-1	
Allyl chloride	**0.38U**	ug/m3	2.7	0.38	1.68		03/11/17 21:54	107-05-1	
Benzene	**2.4**	ug/m3	0.55	0.20	1.68		03/11/17 21:54	71-43-2	
Bromodichloromethane	**0.33U**	ug/m3	2.3	0.33	1.68		03/11/17 21:54	75-27-4	
Bromoform	**1.5U**	ug/m3	8.8	1.5	1.68		03/11/17 21:54	75-25-2	
Bromomethane	**0.52U**	ug/m3	1.3	0.52	1.68		03/11/17 21:54	74-83-9	
1,3-Butadiene	**0.30U**	ug/m3	0.76	0.30	1.68		03/11/17 21:54	106-99-0	
2-Butanone (MEK)	**0.38U**	ug/m3	5.0	0.38	1.68		03/11/17 21:54	78-93-3	
Carbon disulfide	**0.17U**	ug/m3	1.1	0.17	1.68		03/11/17 21:54	75-15-0	
Carbon tetrachloride	**0.32U**	ug/m3	1.1	0.32	1.68		03/11/17 21:54	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.68		03/11/17 21:54	108-90-7	
Chlorodifluoromethane	**24.9**	ug/m3	1.2	0.46	1.68		03/11/17 21:54	75-45-6	
Chloroethane	**0.33U**	ug/m3	0.91	0.33	1.68		03/11/17 21:54	75-00-3	
Chloroform	**0.32U**	ug/m3	0.83	0.32	1.68		03/11/17 21:54	67-66-3	
Chloromethane	**0.18U**	ug/m3	0.71	0.18	1.68		03/11/17 21:54	74-87-3	
Chloropentafluoroethane	**5.4U**	ug/m3	5.4	5.4	1.68		03/11/17 21:54	76-15-3	CL
Cyclohexane	**2.1**	ug/m3	1.2	0.53	1.68		03/11/17 21:54	110-82-7	
1,2-Dibromo-3-chloropropane	**8.2U**	ug/m3	8.2	8.2	1.68		03/11/17 21:54	96-12-8	
Dibromochloromethane	**1.4U**	ug/m3	2.9	1.4	1.68		03/11/17 21:54	124-48-1	
1,2-Dibromoethane (EDB)	**1.3U**	ug/m3	2.6	1.3	1.68		03/11/17 21:54	106-93-4	
1,2-Dichlorobenzene	**0.86U**	ug/m3	2.0	0.86	1.68		03/11/17 21:54	95-50-1	
1,3-Dichlorobenzene	**0.89U**	ug/m3	2.0	0.89	1.68		03/11/17 21:54	541-73-1	
1,4-Dichlorobenzene	**0.84U**	ug/m3	2.0	0.84	1.68		03/11/17 21:54	106-46-7	
Dichlorodifluoromethane	**5.1**	ug/m3	1.7	0.81	1.68		03/11/17 21:54	75-71-8	
1,1-Dichloroethane	**0.26U**	ug/m3	1.4	0.26	1.68		03/11/17 21:54	75-34-3	
1,2-Dichloroethane	**0.34U**	ug/m3	0.69	0.34	1.68		03/11/17 21:54	107-06-2	
1,1-Dichloroethene	**0.40U**	ug/m3	1.4	0.40	1.68		03/11/17 21:54	75-35-4	
cis-1,2-Dichloroethene	**0.41U**	ug/m3	1.4	0.41	1.68		03/11/17 21:54	156-59-2	
trans-1,2-Dichloroethene	**0.65U**	ug/m3	1.4	0.65	1.68		03/11/17 21:54	156-60-5	
1,2-Dichloropropane	**0.45U**	ug/m3	1.6	0.45	1.68		03/11/17 21:54	78-87-5	
cis-1,3-Dichloropropene	**0.62U**	ug/m3	1.5	0.62	1.68		03/11/17 21:54	10061-01-5	
trans-1,3-Dichloropropene	**0.44U**	ug/m3	1.5	0.44	1.68		03/11/17 21:54	10061-02-6	
Dichlorotetrafluoroethane	**0.52U**	ug/m3	2.4	0.52	1.68		03/11/17 21:54	76-14-2	
Freon 123	**5.3U**	ug/m3	5.3	5.3	1.68		03/11/17 21:54	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.59U**	ug/m3	6.1	0.59	1.68		03/11/17 21:54	123-91-1	
Ethylbenzene	**3.2**	ug/m3	1.5	0.71	1.68		03/11/17 21:54	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.7	0.32	1.68		03/11/17 21:54	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.6	1.1	1.68		03/11/17 21:54	87-68-3	
n-Hexane	**40.5**	ug/m3	1.2	0.60	1.68		03/11/17 21:54	110-54-3	
2-Hexanone	**0.69U**	ug/m3	7.0	0.69	1.68		03/11/17 21:54	591-78-6	
Isopropylbenzene (Cumene)	**0.23U**	ug/m3	4.2	0.23	1.68		03/11/17 21:54	98-82-8	
Methyl acetate	**2.6U**	ug/m3	2.6	2.6	1.68		03/11/17 21:54	79-20-9	
Methylcyclohexane	**1.1J**	ug/m3	1.4	0.41	1.68		03/11/17 21:54	108-87-2	
Methylene Chloride	**176**	ug/m3	159	24.4	45.02		03/12/17 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.36U**	ug/m3	7.0	0.36	1.68		03/11/17 21:54	108-10-1	
Methyl-tert-butyl ether	**0.51U**	ug/m3	6.2	0.51	1.68		03/11/17 21:54	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.d
Report Date: 12-Mar-2017 10:42

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07023.d
Lab Smp Id: 10380372015
Inj Date : 11-MAR-2017 21:54
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 23
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	2.110	2.126	(0.498)	4967	0.35512	0.597(Q)	
3	Chlorodifluoromethane	67	2.123	2.155	(0.501)	28571	4.12016	6.92(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.165	(0.507)	38145	0.60404	1.01	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.505	2.521	(0.591)	50775	11.5141	19.3	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	2.540	2.592	(0.599)	60098	2.18393	3.67(QH)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.598	2.614	(0.613)	19545	0.29585	0.497	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.640	2.653	(0.622)	524086	14.8990	25.0	
19	Isopropyl Alcohol	45	2.675	2.688	(0.631)	118215	5.28330	8.88(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	2.839	2.845	(0.669)	1654	0.05433	0.0913	
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.d
Report Date: 12-Mar-2017 10:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						(D)
	25 Methylene chloride	49	2.868	2.871	(0.676)	2809680	185.128	311(A)	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.275	(0.771)	1397079	9.16191	9.16	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	3.349	3.352	(0.790)	222041	6.72466	11.3(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.094	4.100	(0.965)	27647	0.43740	0.735	
	45 Carbon tetrachloride	117	Compound Not Detected.						(D)
	44 Cyclohexane	56	4.116	4.126	(0.970)	11597	0.35539	0.597(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	2872336	10.0000		
	48 2,2,4-Trimethylpentane	57	4.369	4.376	(1.030)	45056	158.295	266(A)	
	49 Heptane	43	4.485	4.491	(1.057)	16906	0.34262	0.576	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						(D)
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	4.957	4.960	(1.169)	2088	0.15605	0.262(Q)	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.563	(1.311)	2682317	9.31963	9.32	
	60 Toluene	91	5.631	5.631	(1.328)	136839	1.61154	2.71	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	6.054	6.051	(0.862)	9755	0.19816	0.333(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	7.026	7.030	(1.000)	1983703	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	36997	0.42506	0.714	
	70 m&p-Xylene	91	7.450	7.460	(1.060)	124394	1.69815	2.85	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.858	7.858	(1.118)	124426	2.73941	4.60	
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	7.931	7.928	(1.129)	37623	0.52431	0.881	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	9.061	9.051	(1.290)	6566	0.07027	0.118	

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.d
Report Date: 12-Mar-2017 10:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	9.225	9.228	(1.313)	13322	0.17431	0.293(M)	
79	1,3,5-Trimethylbenzene	105	9.318	9.318	(1.326)	19385	0.23716	0.398	
80	n-Decane	57	9.719	9.722	(2.291)	7778	0.16662	0.280(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.825	9.825	(1.398)	43137	0.52300	0.879	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1118627	9.20386	9.20	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	10.415	10.409	(1.482)	5639	0.09257	0.156	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	10.973	10.973	(1.562)	2939	0.04601	0.0773(aM)	
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.966	12.960	(1.845)	13862	0.66685	1.12	
95	Hexachlorobutadiene	225	Compound Not Detected.						(D)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.d
Report Date: 12-Mar-2017 10:42

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07023.d
Lab Smp Id: 10380372015
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

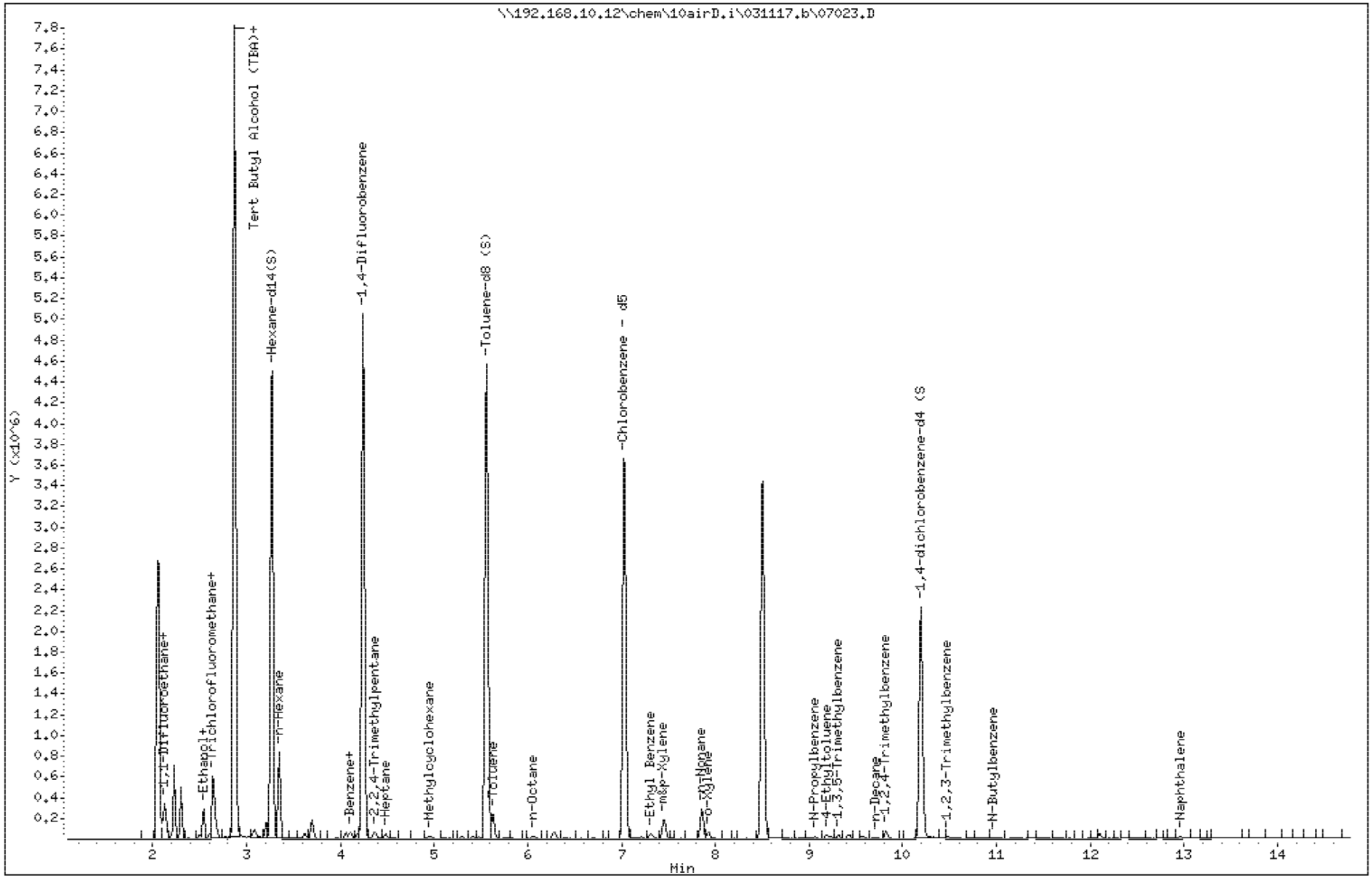
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	2872336	-24.16
67 Chlorobenzene - d	3280875	1968525	4593225	1983703	-39.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D
Date : 11-MAR-2017 21:54
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

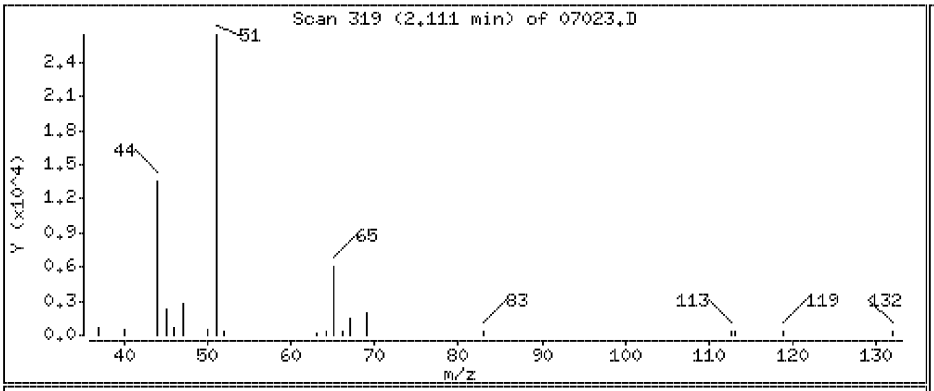
Operator: DR1

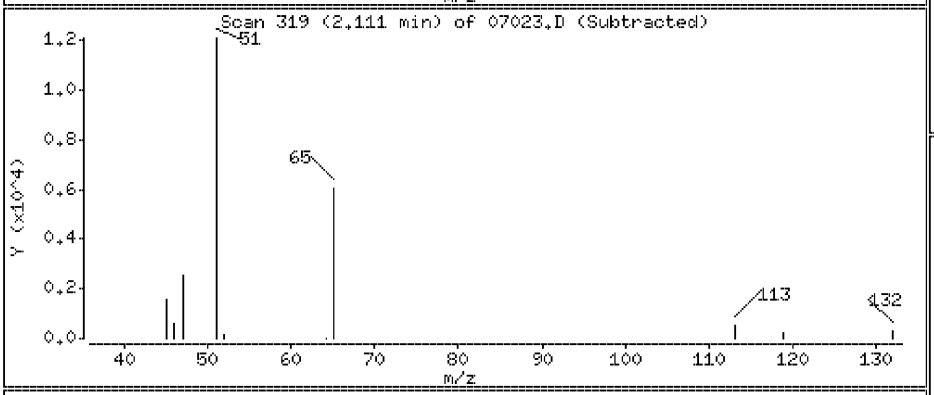
Column phase: J&W DB-5

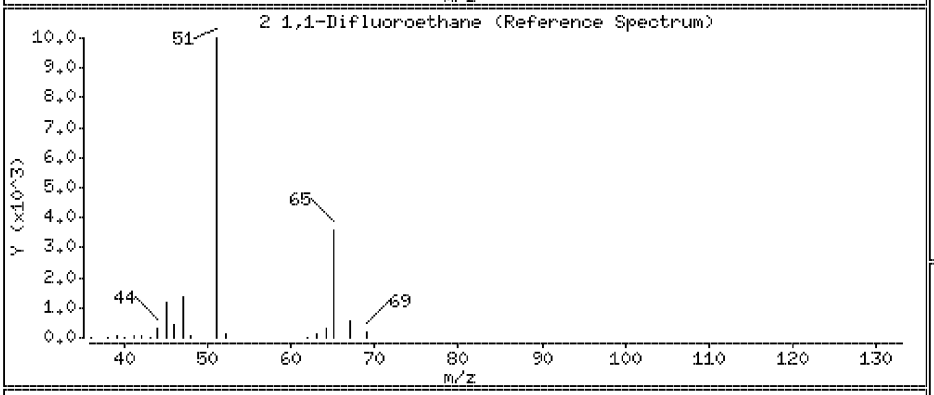
Column diameter: 0.32

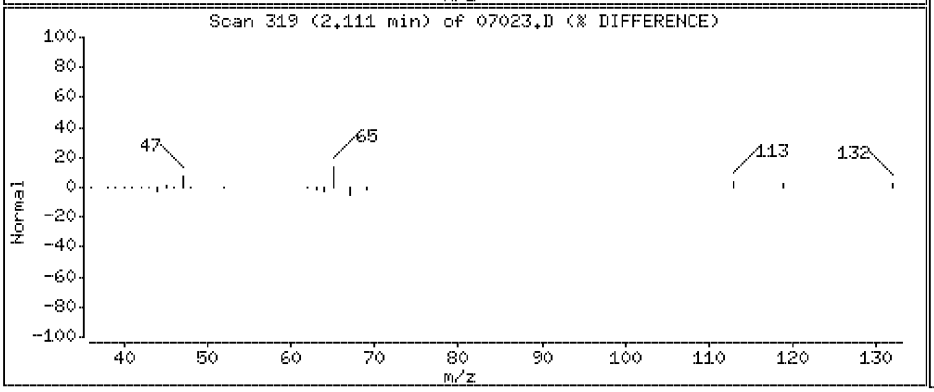
2 1,1-Difluoroethane

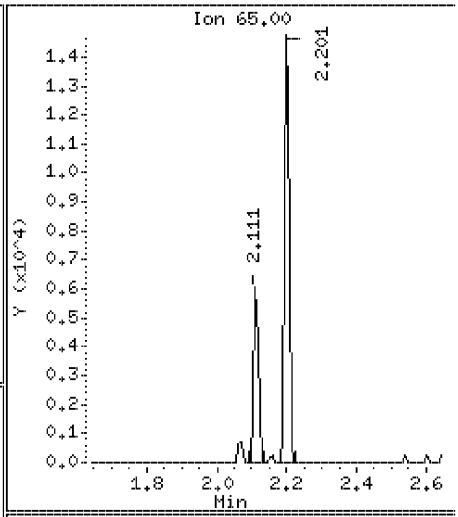
Concentration: 0.597 ppbv

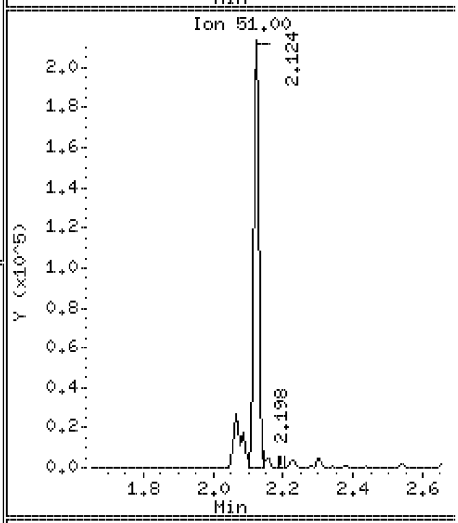


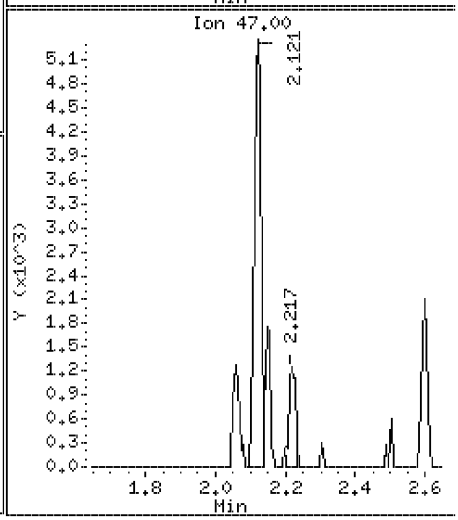












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

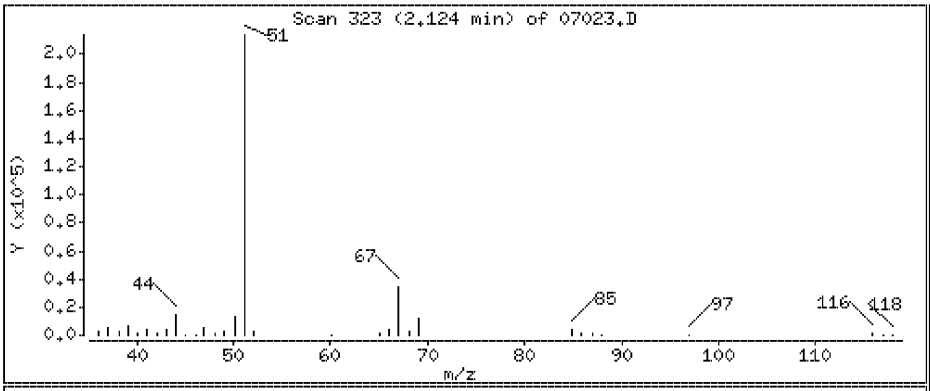
Operator: DR1

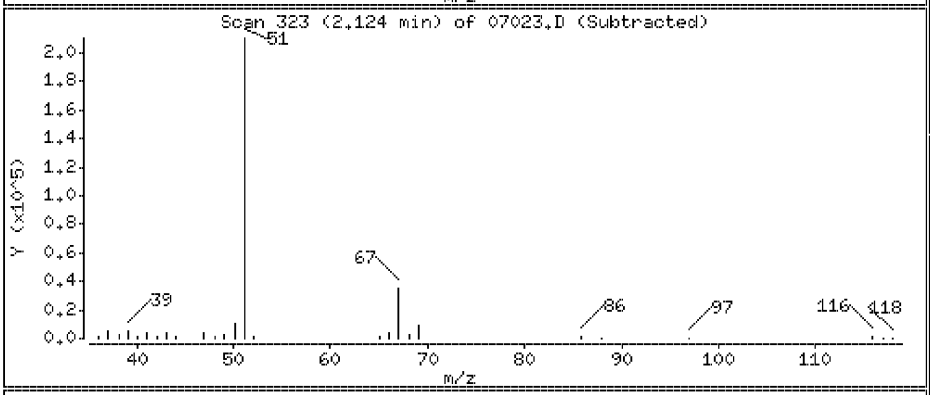
Column phase: J&W DB-5

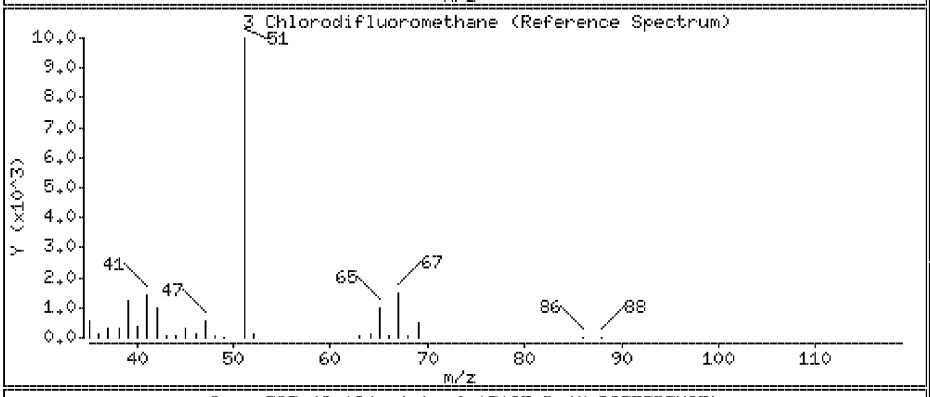
Column diameter: 0.32

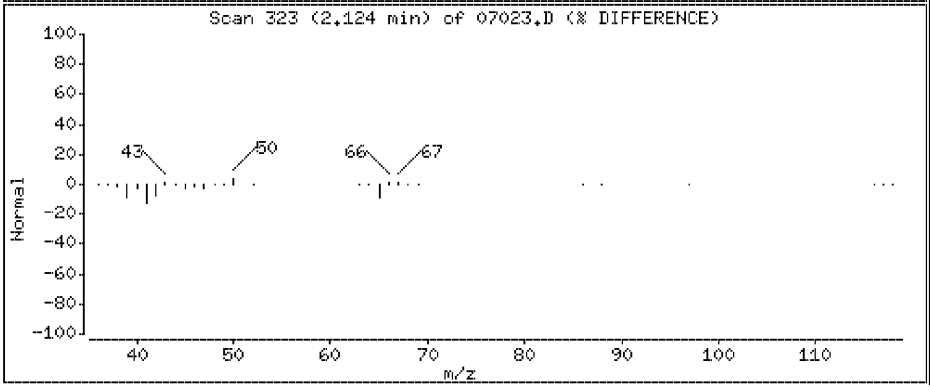
3 Chlorodifluoromethane

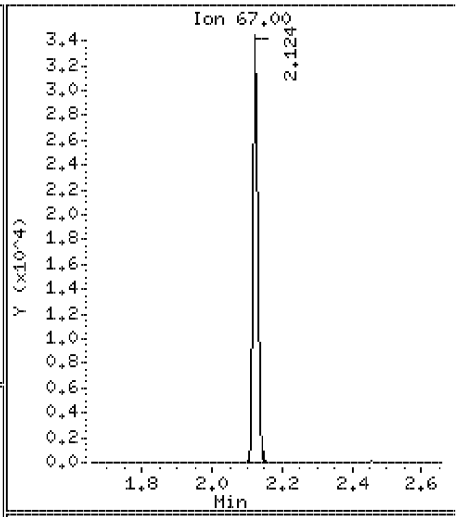
Concentration: 6.92 ppbv

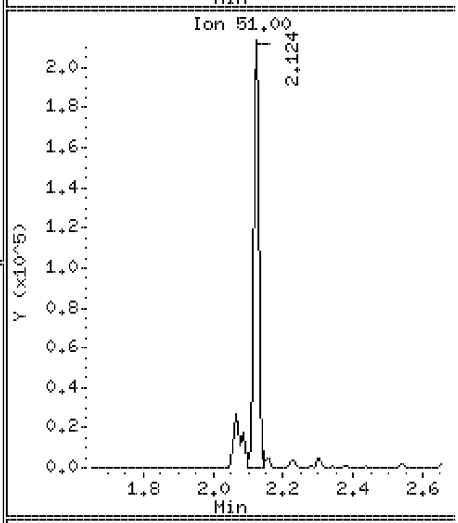


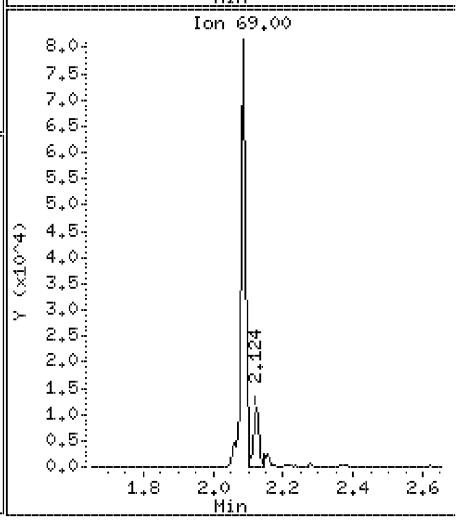












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

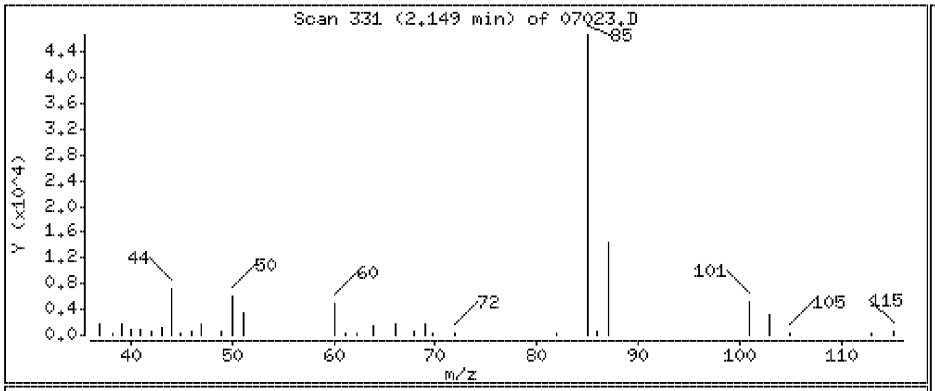
Operator: DR1

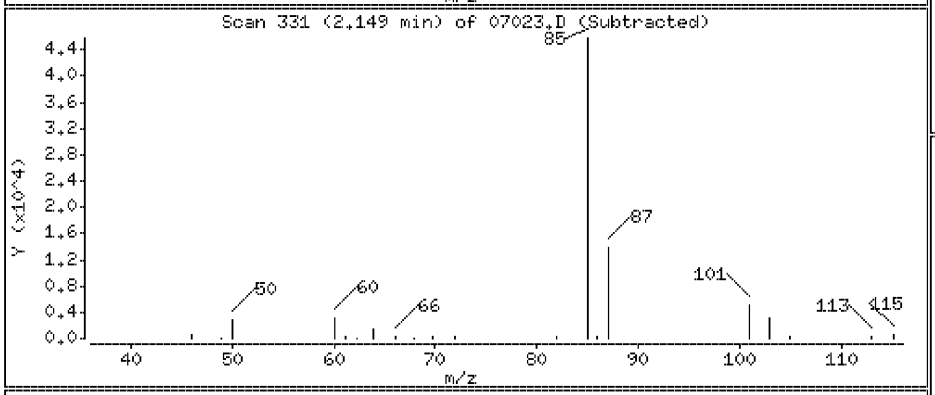
Column phase: J&W DB-5

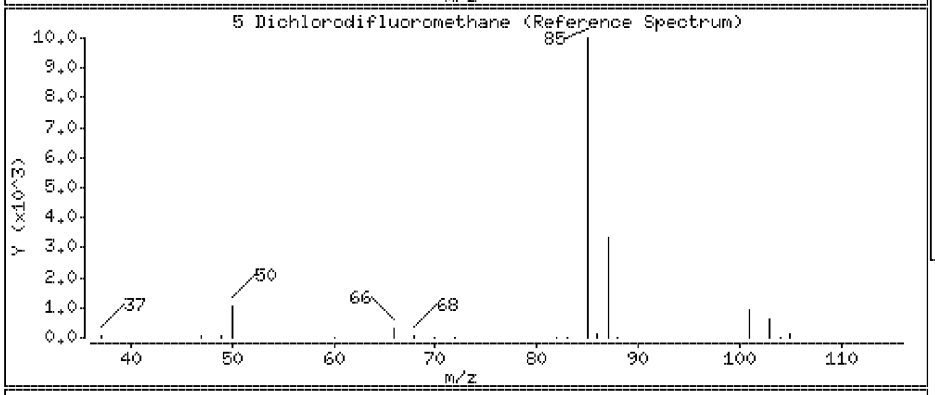
Column diameter: 0.32

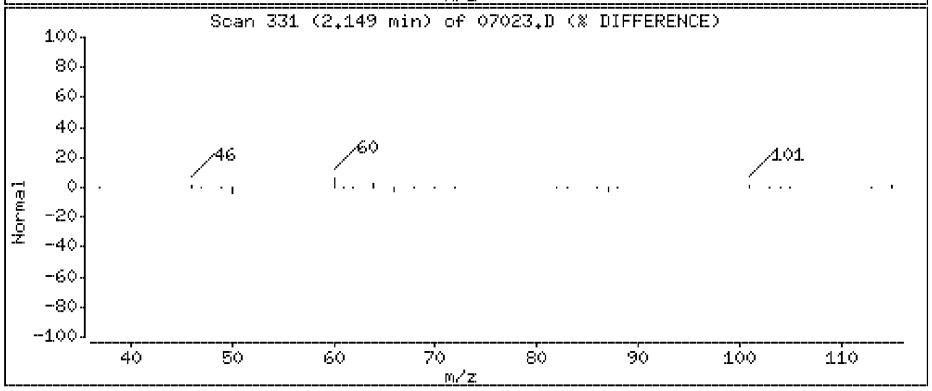
5 Dichlorodifluoromethane

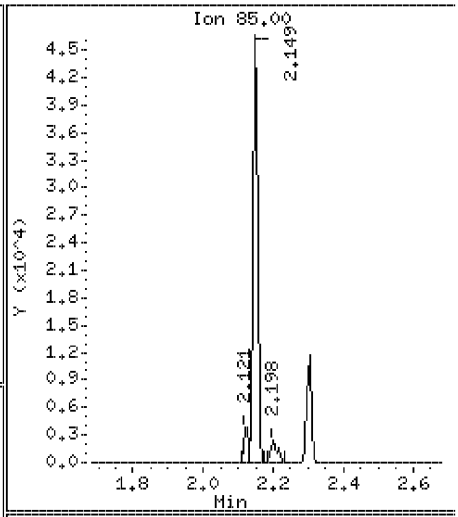
Concentration: 1.01 ppbv

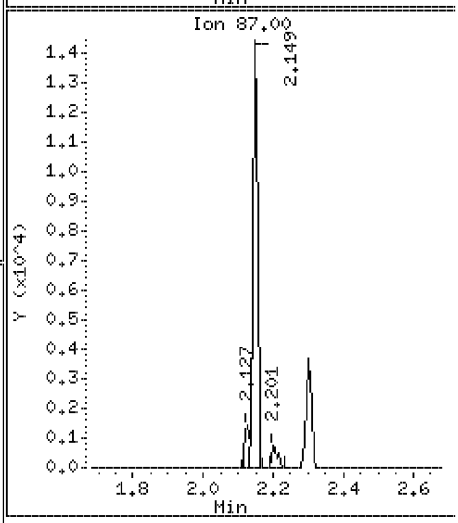












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

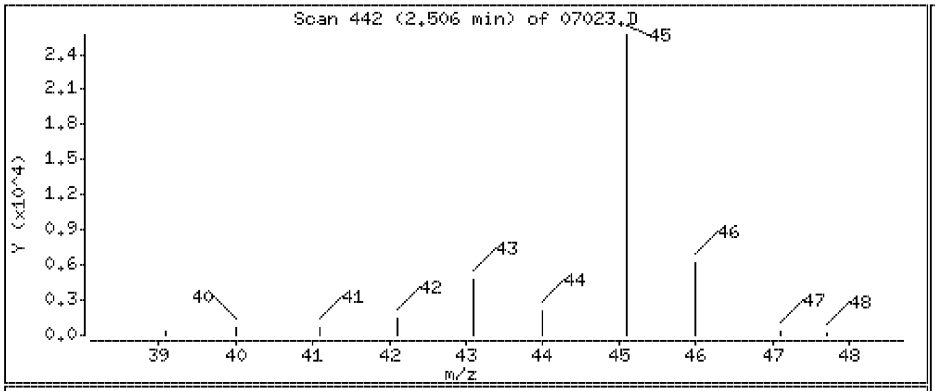
Operator: DR1

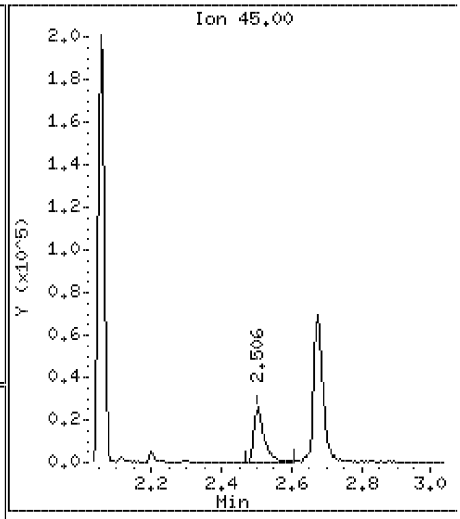
Column phase: J&W DB-5

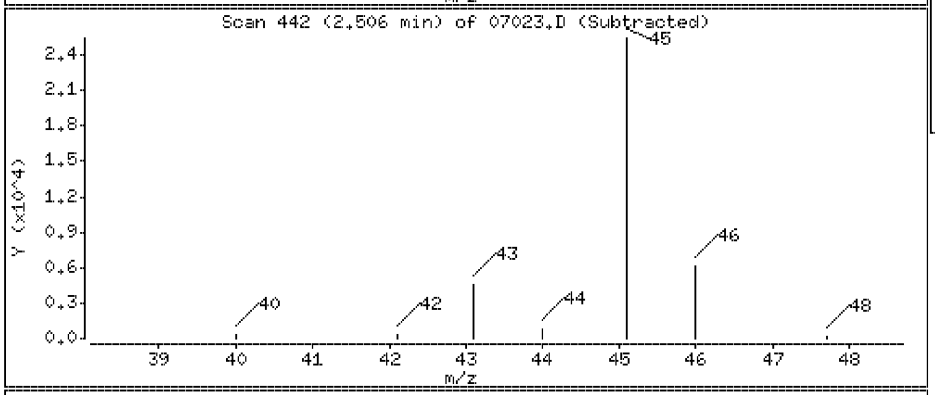
Column diameter: 0.32

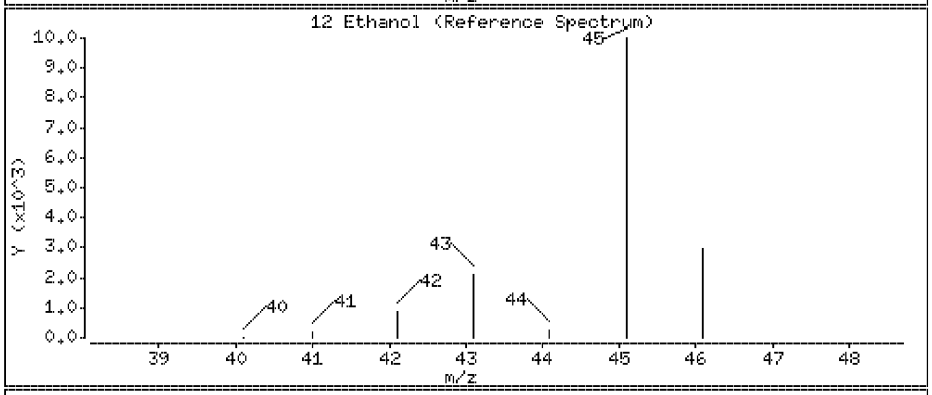
12 Ethanol

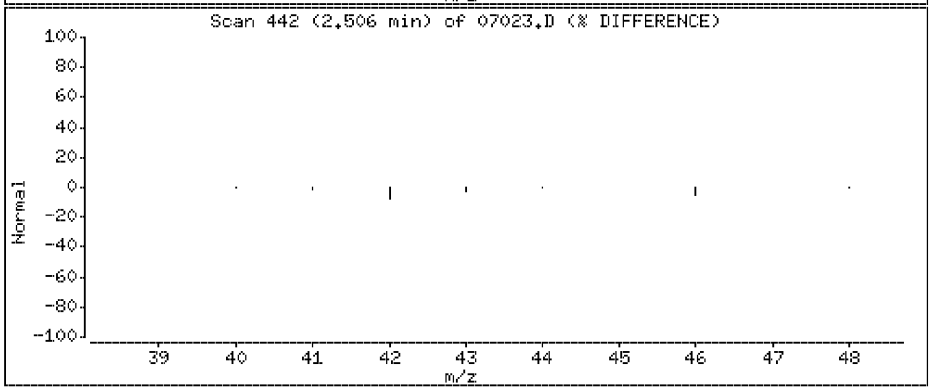
Concentration: 19.3 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

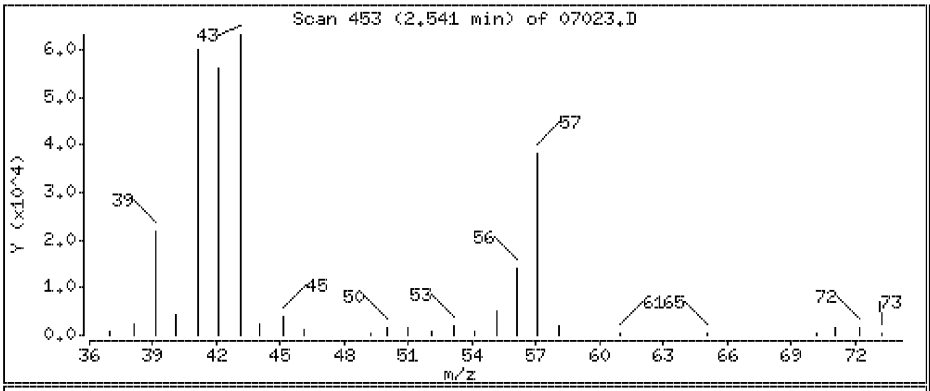
Operator: DR1

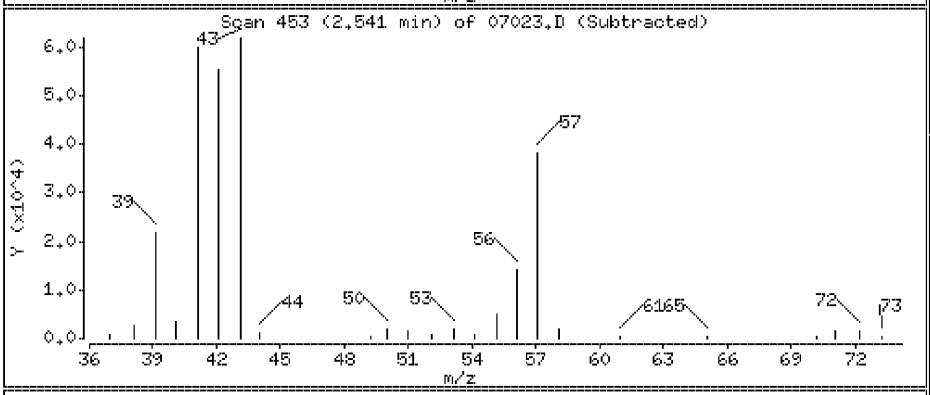
Column phase: J&W DB-5

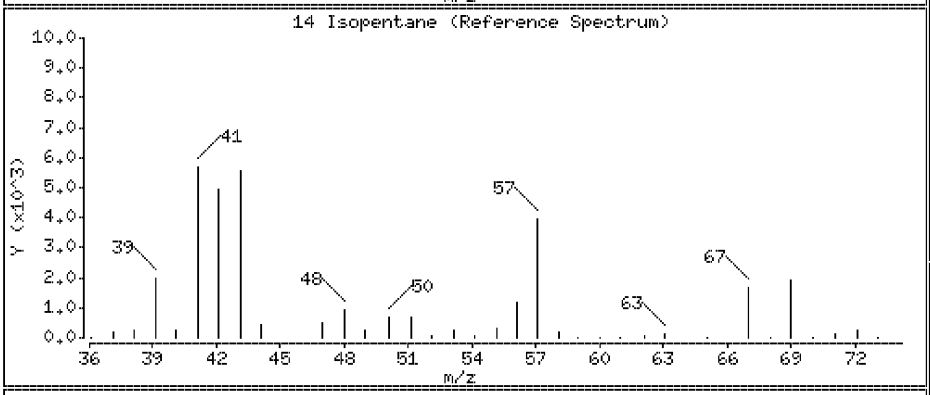
Column diameter: 0.32

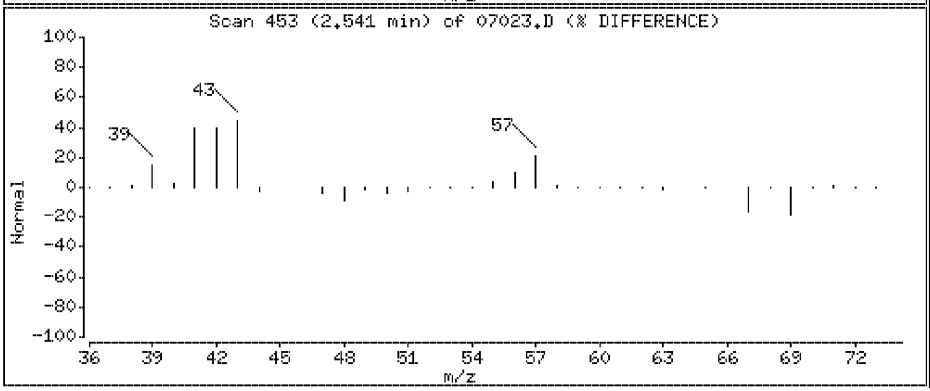
14 Isopentane

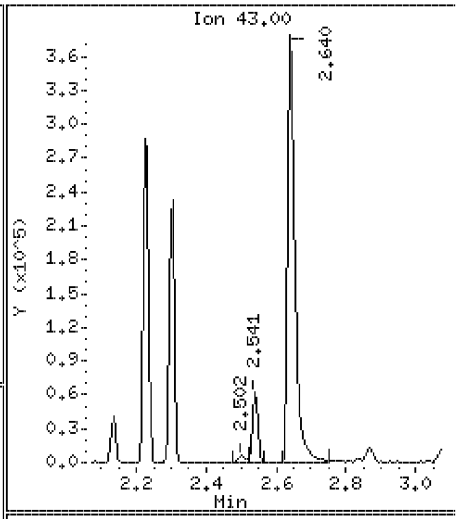
Concentration: 3.67 ppbv

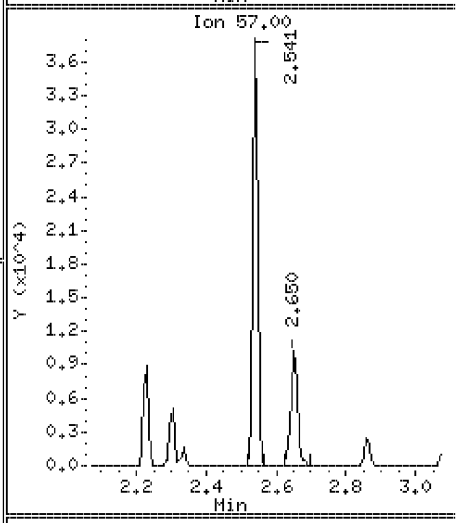


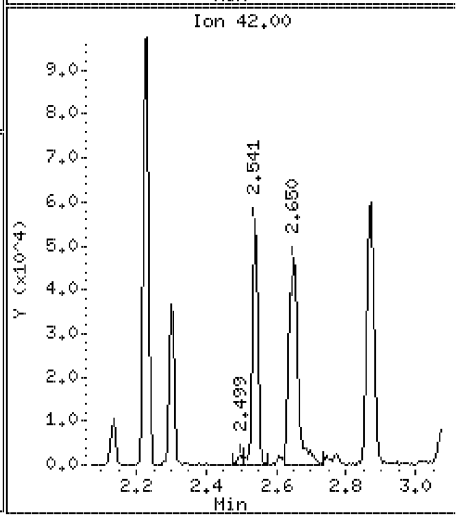












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

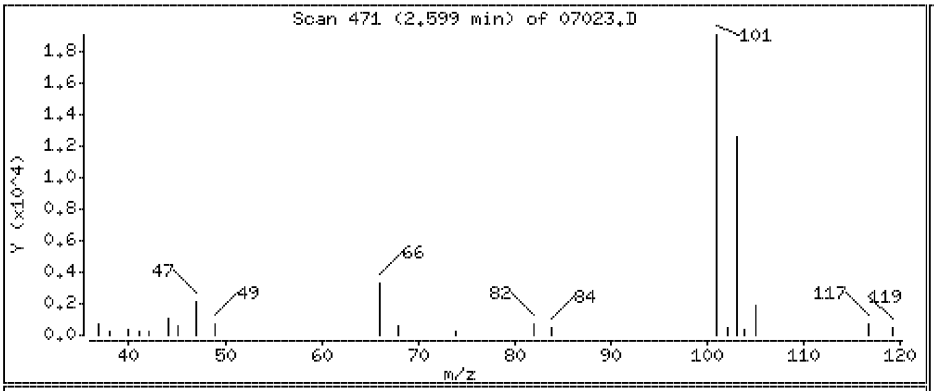
Operator: DR1

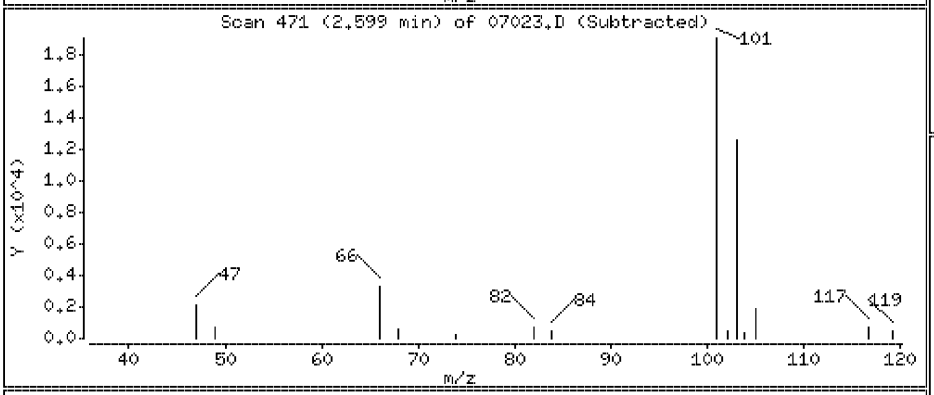
Column phase: J&W DB-5

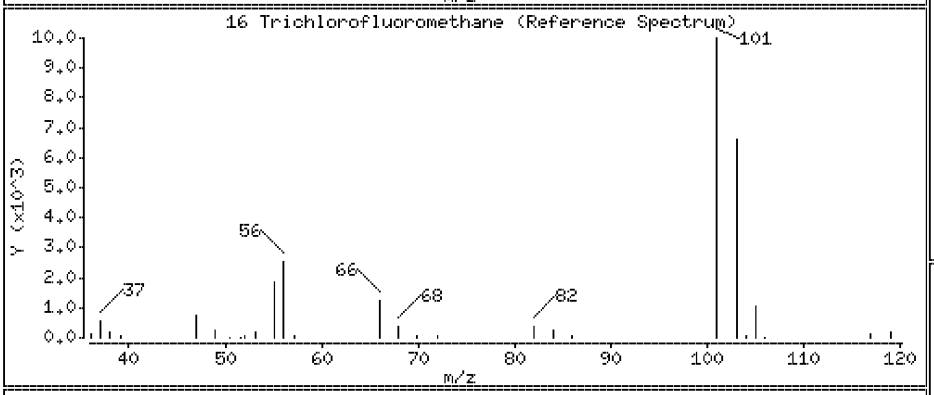
Column diameter: 0.32

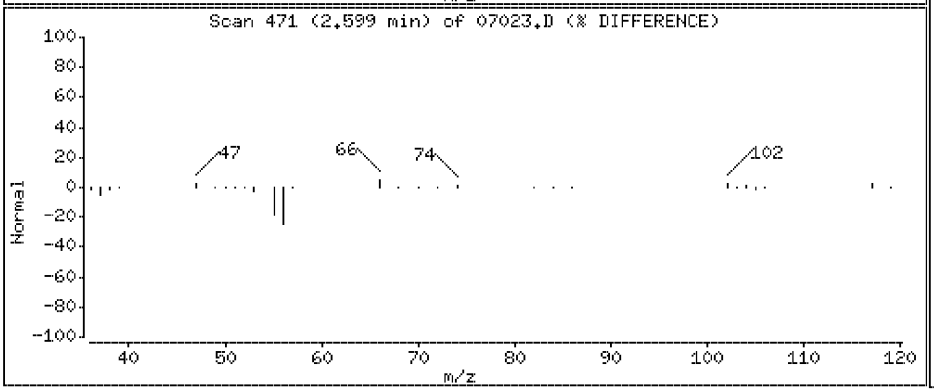
16 Trichlorofluoromethane

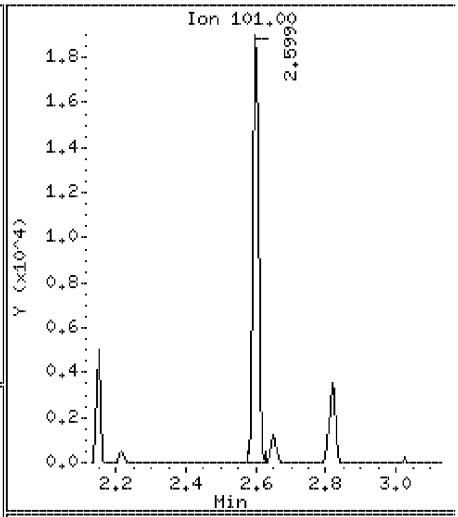
Concentration: 0.497 ppbv

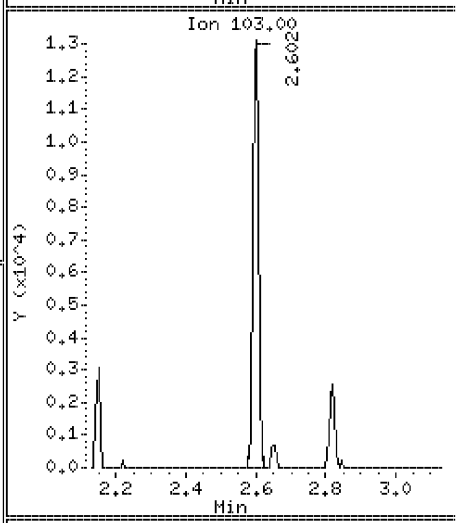


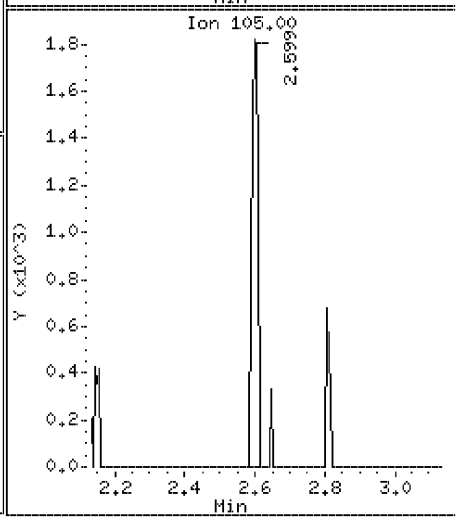












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

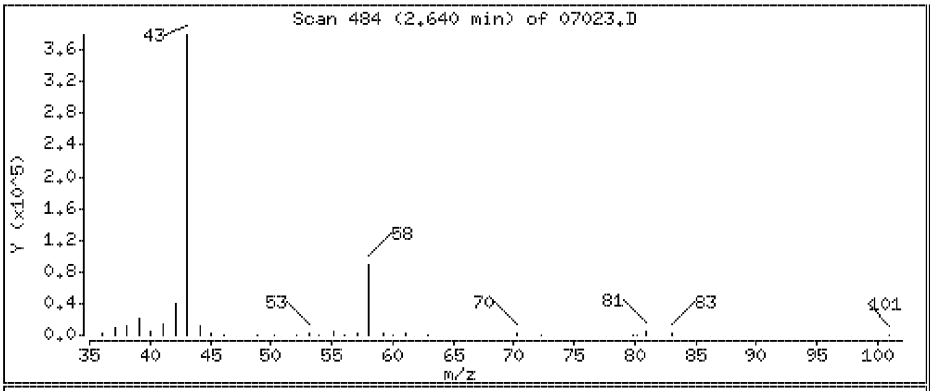
Operator: DR1

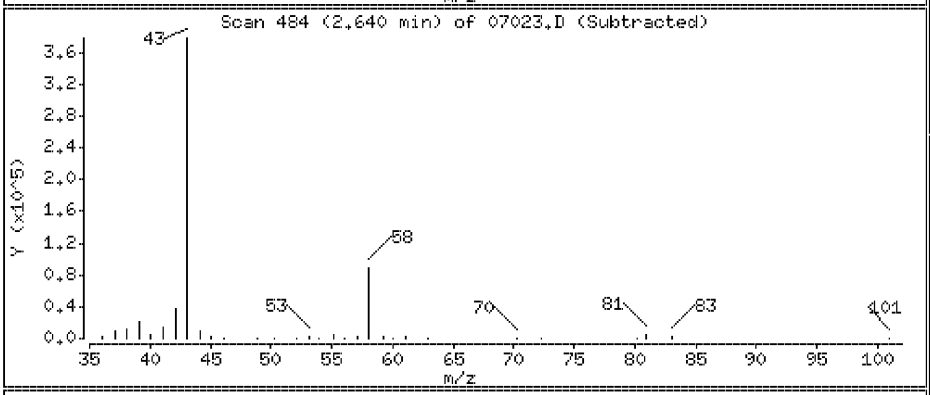
Column phase: J&W DB-5

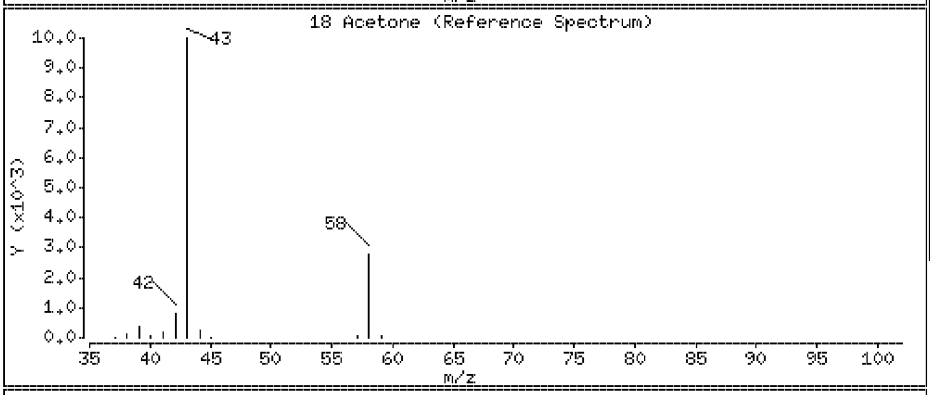
Column diameter: 0.32

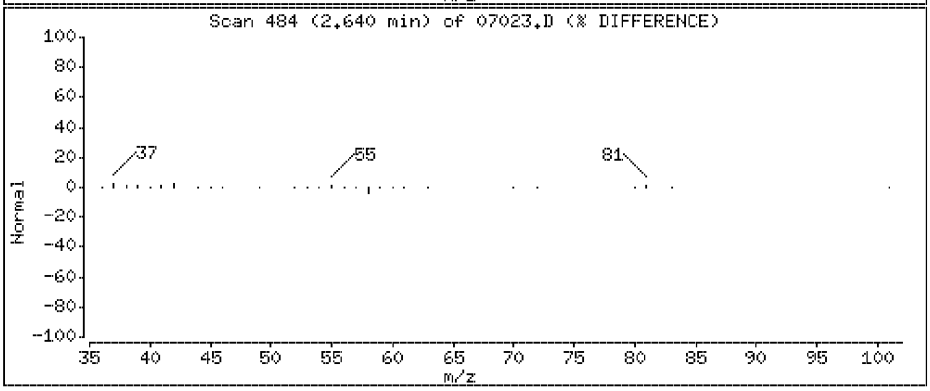
18 Acetone

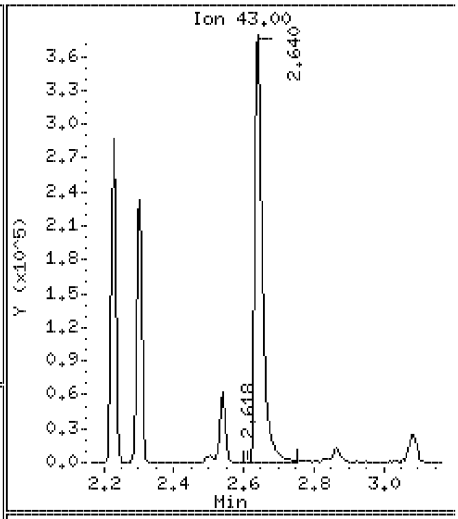
Concentration: 25.0 ppbv

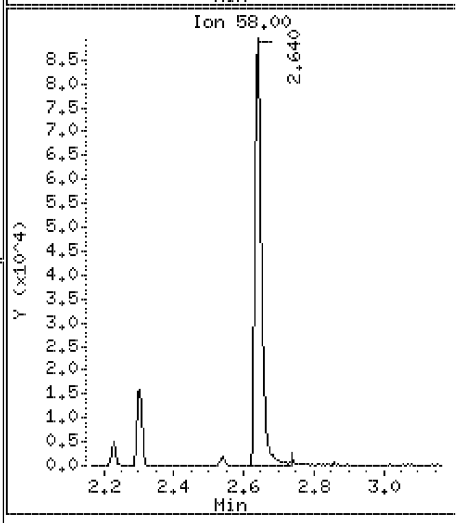












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

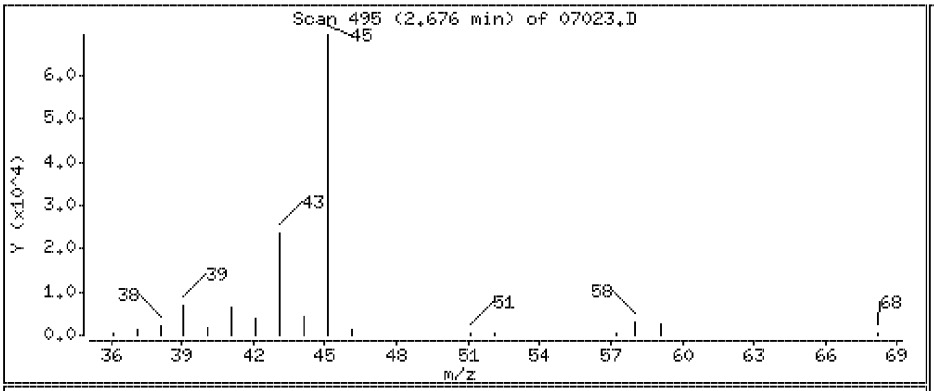
Operator: DR1

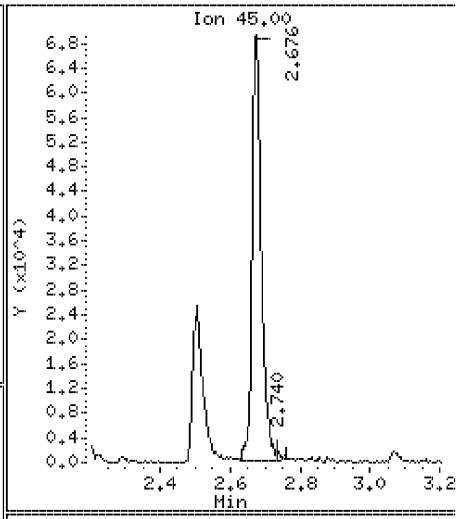
Column phase: J&W DB-5

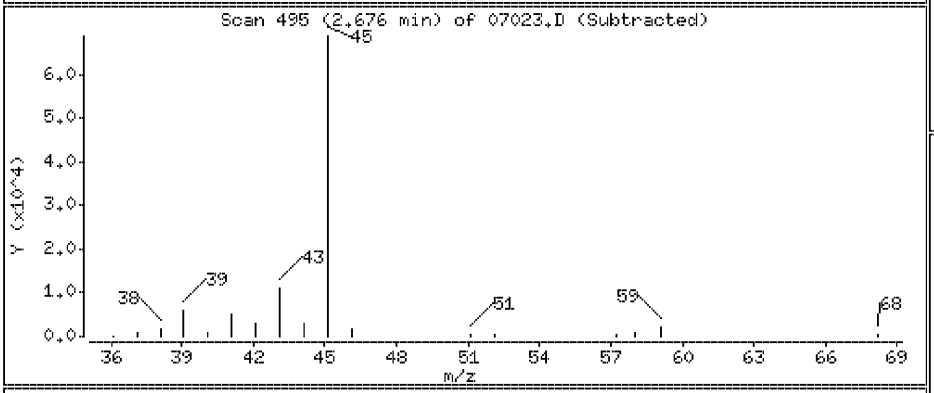
Column diameter: 0.32

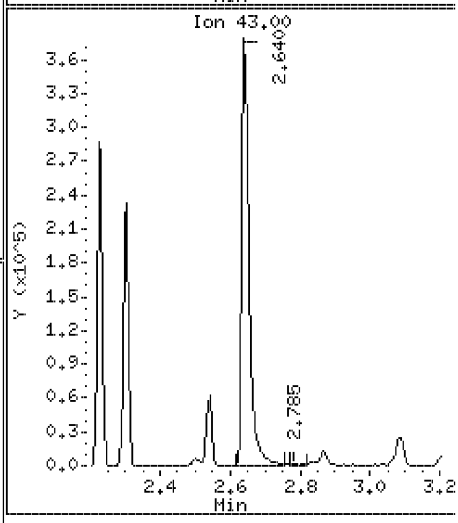
19 Isopropyl Alcohol

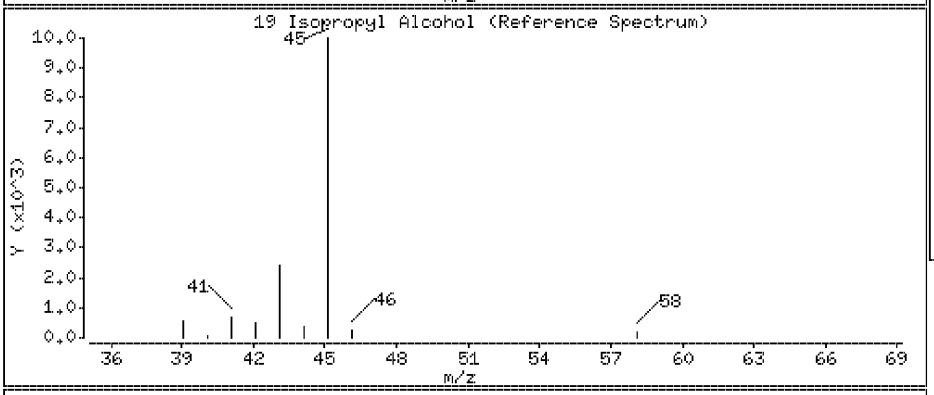
Concentration: 8.88 ppbv

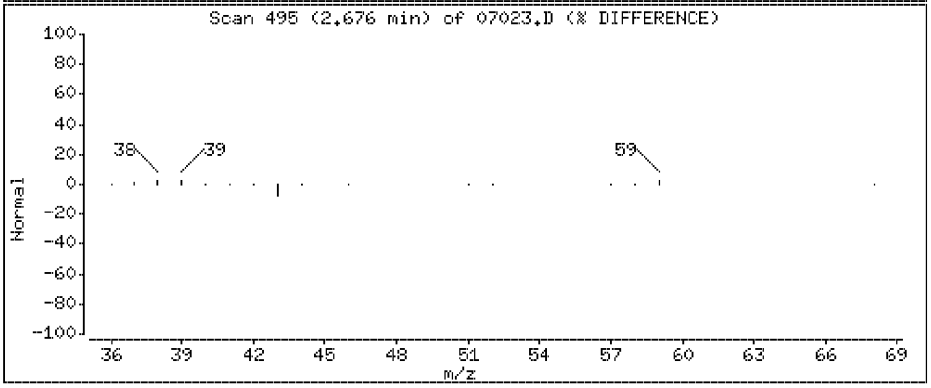












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

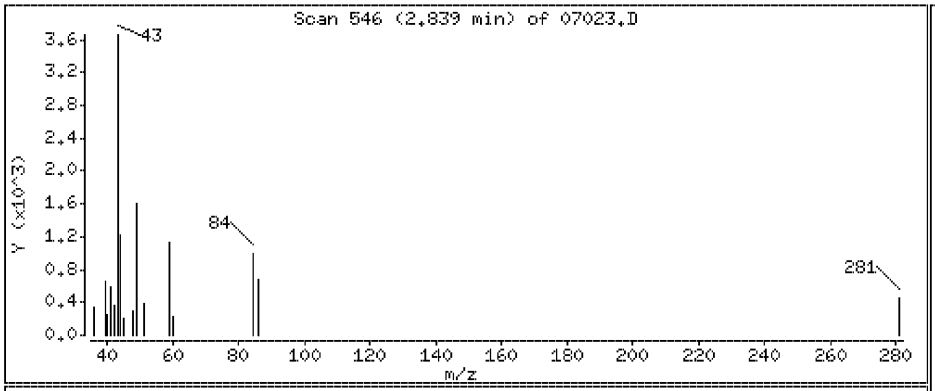
Operator: DR1

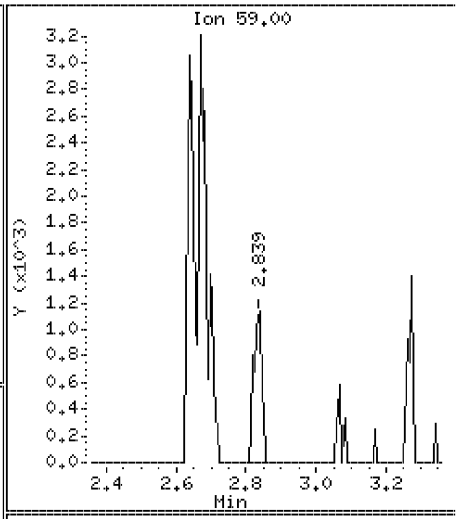
Column phase: J&W DB-5

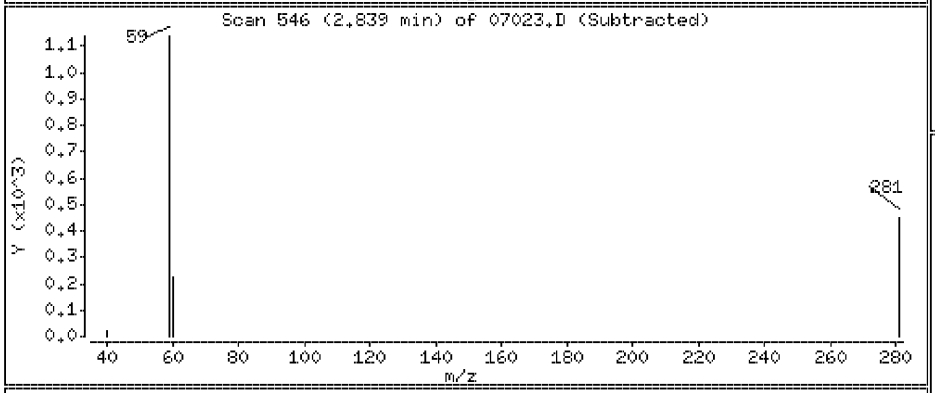
Column diameter: 0.32

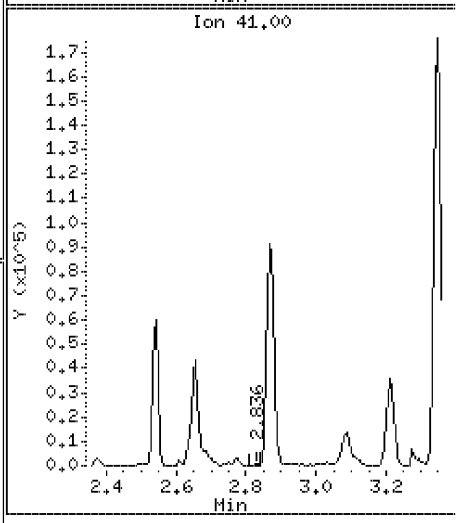
24 Tert Butyl Alcohol (TBA)

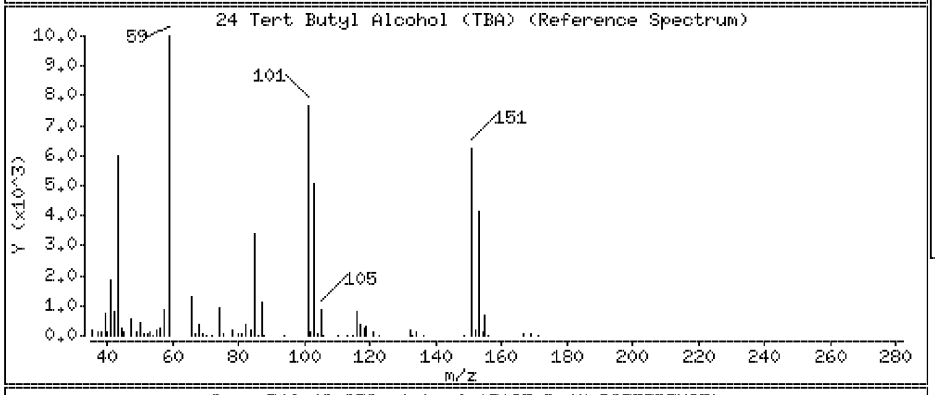
Concentration: 0.0913 ppbv

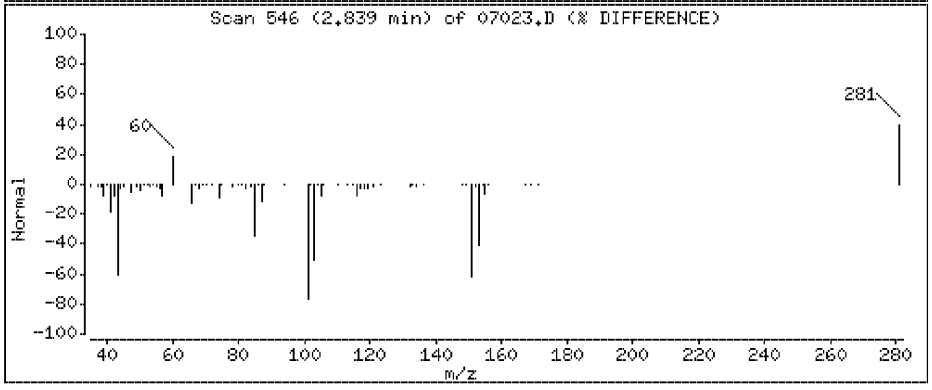












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

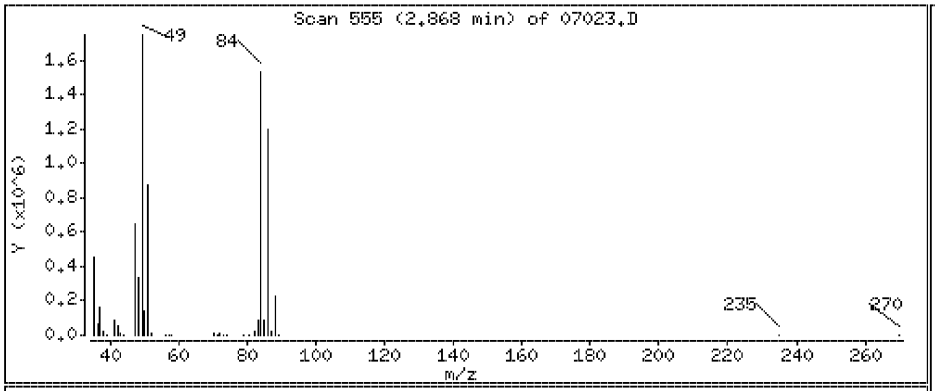
Operator: DR1

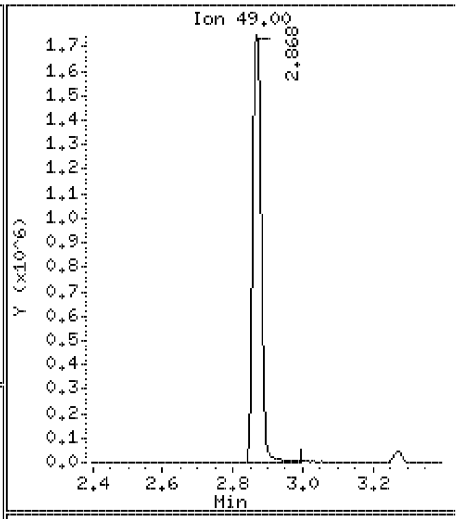
Column phase: J&W DB-5

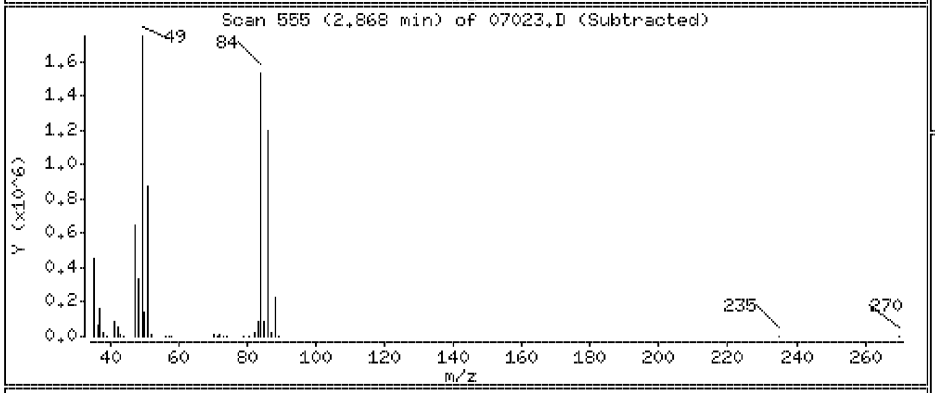
Column diameter: 0.32

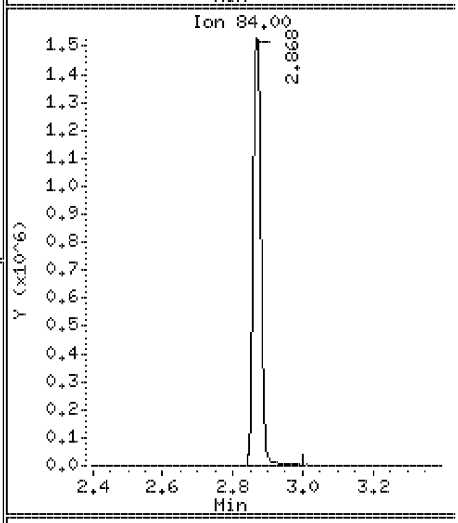
25 Methylene chloride

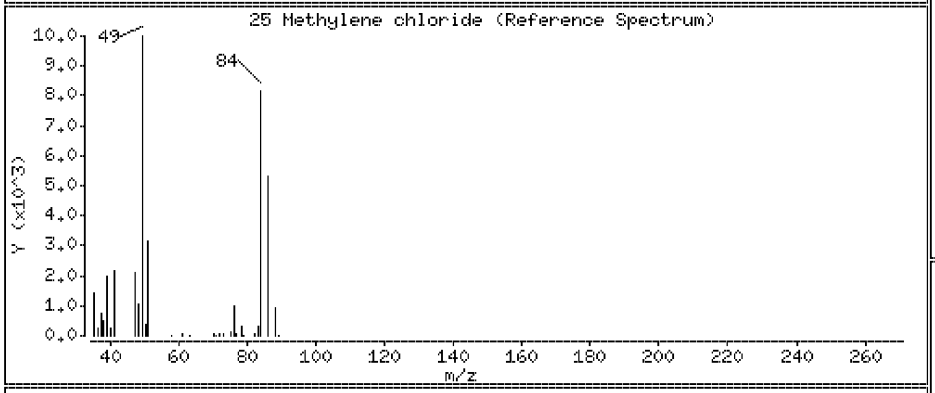
Concentration: 311 ppbv

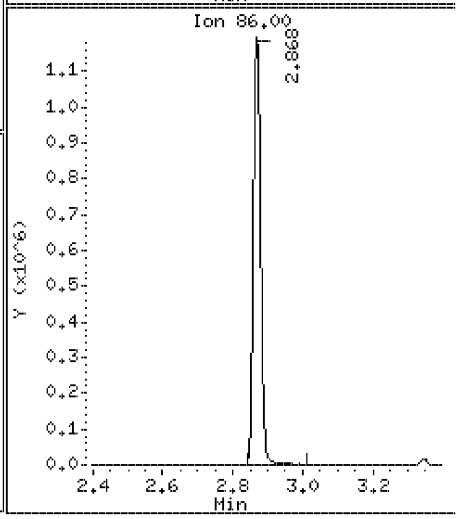


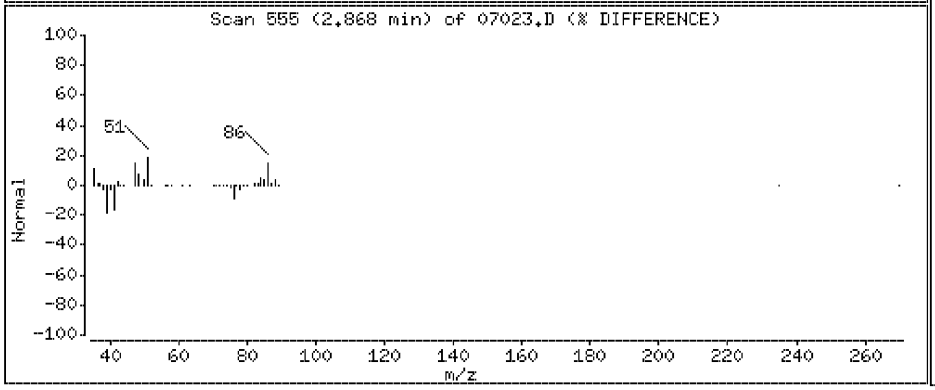












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

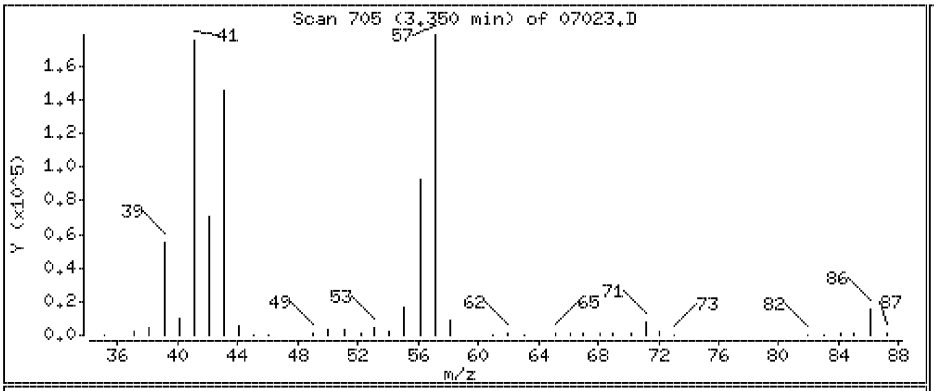
Operator: DR1

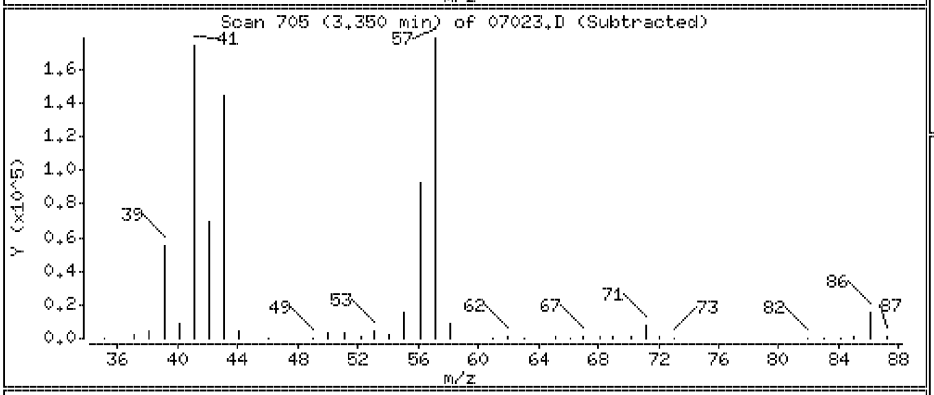
Column phase: J&W DB-5

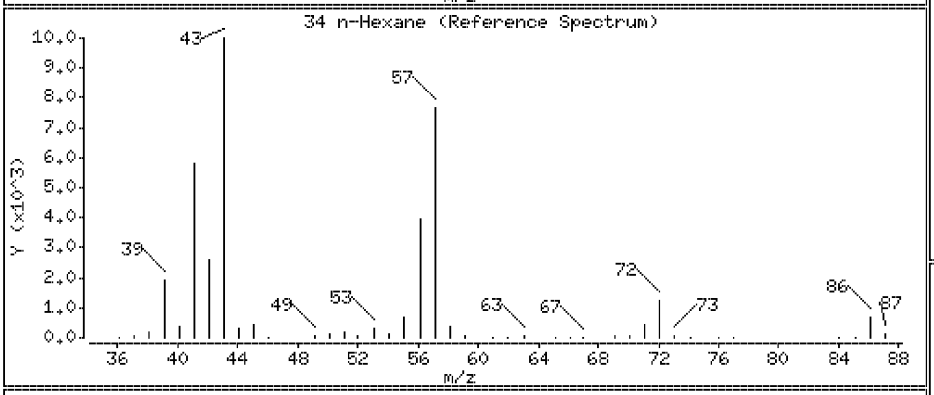
Column diameter: 0.32

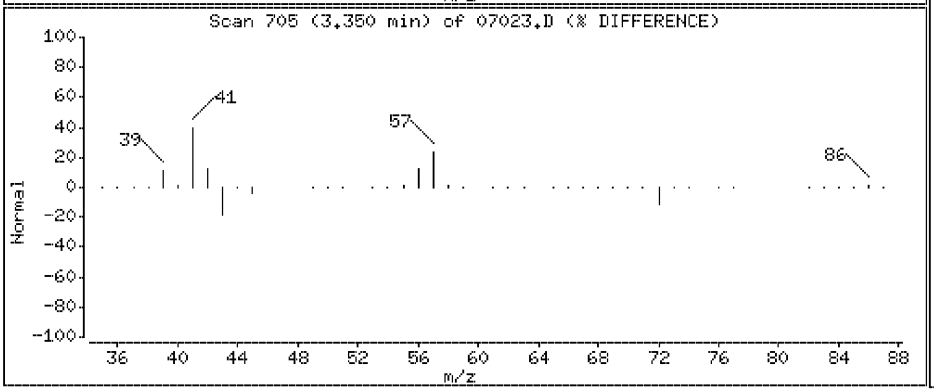
34 n-Hexane

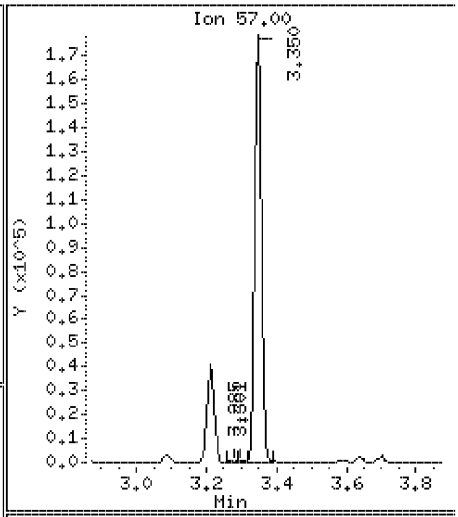
Concentration: 11.3 ppbv

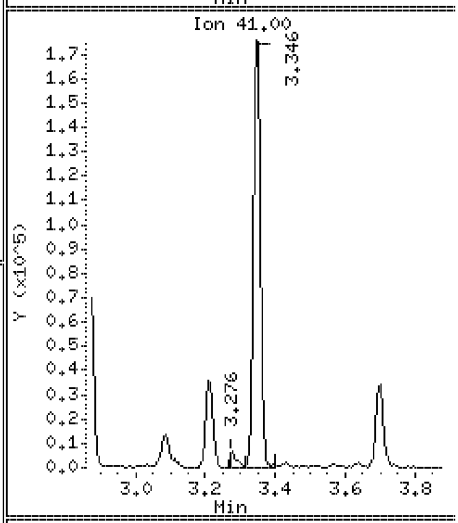


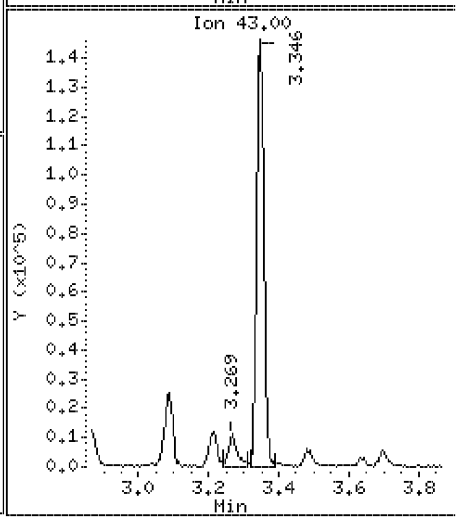












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

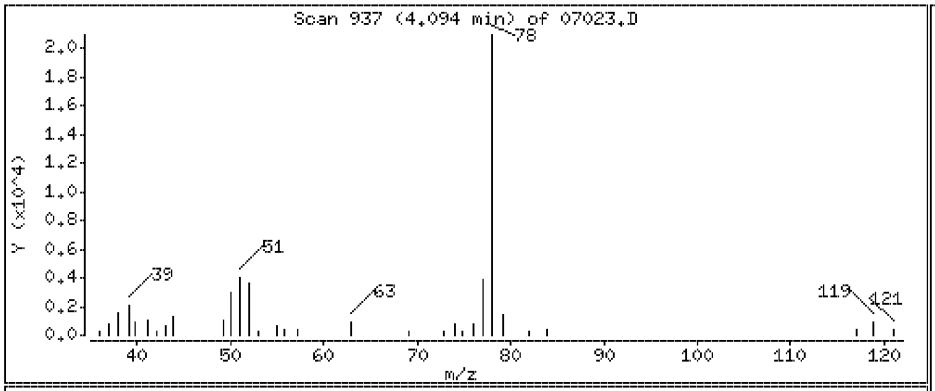
Operator: DR1

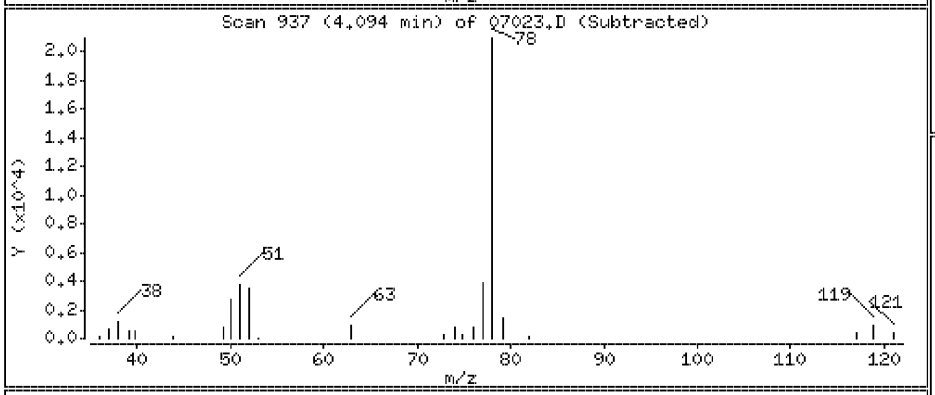
Column phase: J&W DB-5

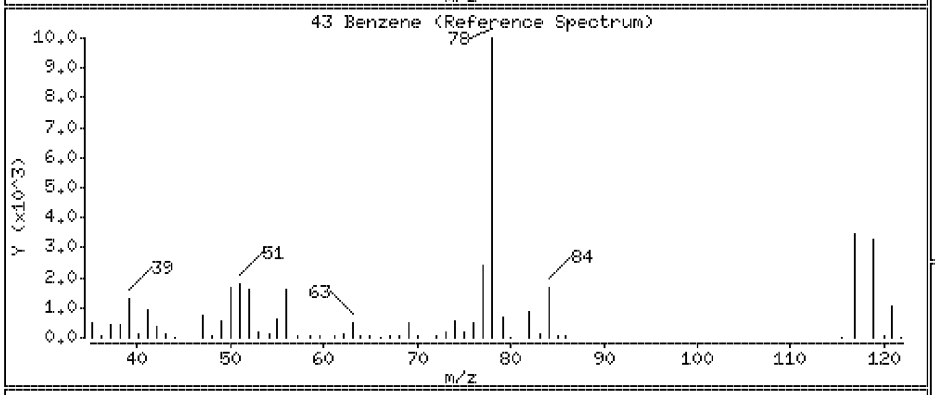
Column diameter: 0.32

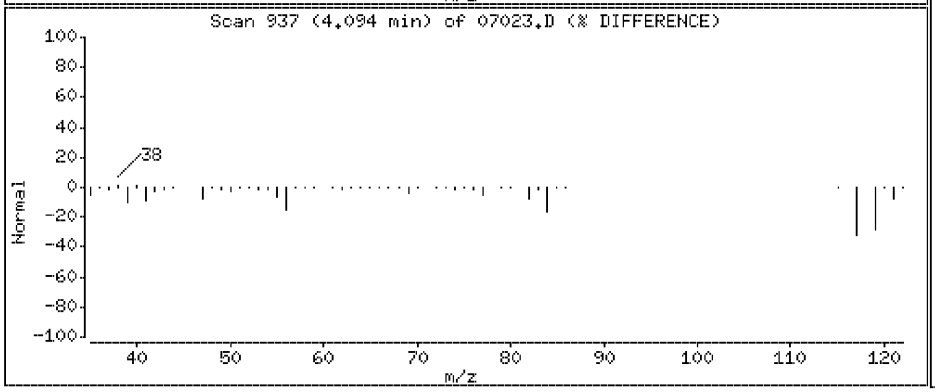
43 Benzene

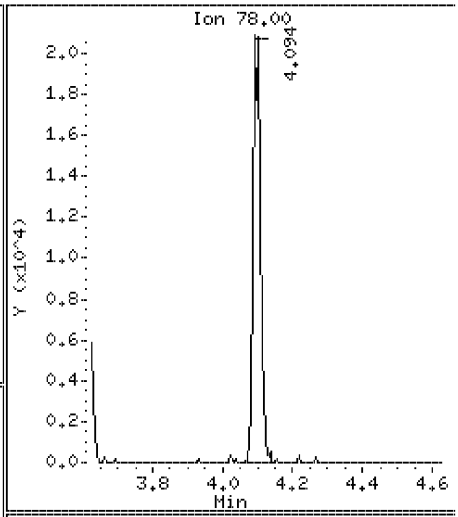
Concentration: 0.735 ppbv

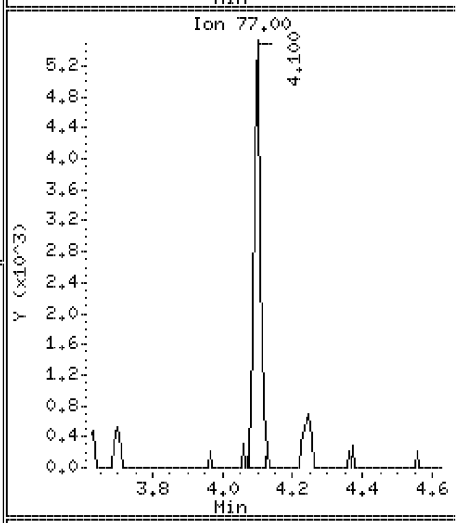


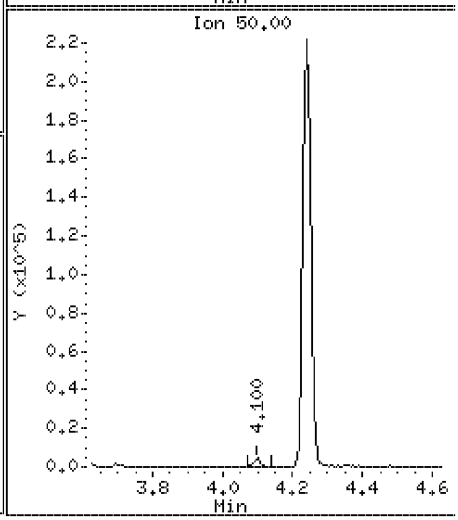












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

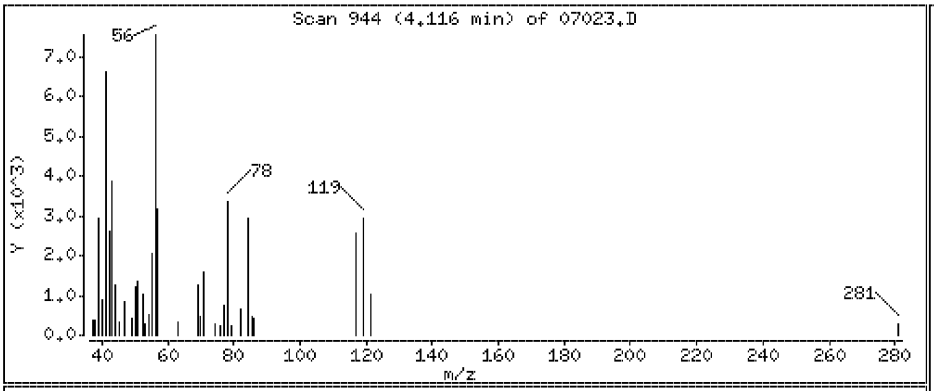
Operator: DR1

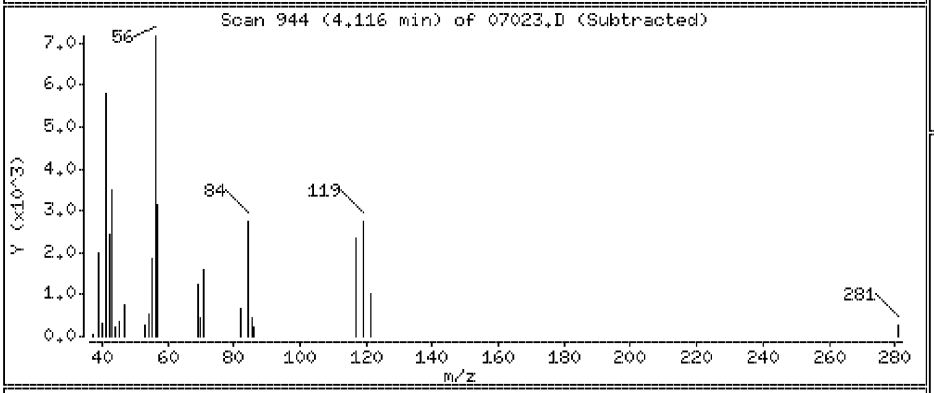
Column phase: J&W DB-5

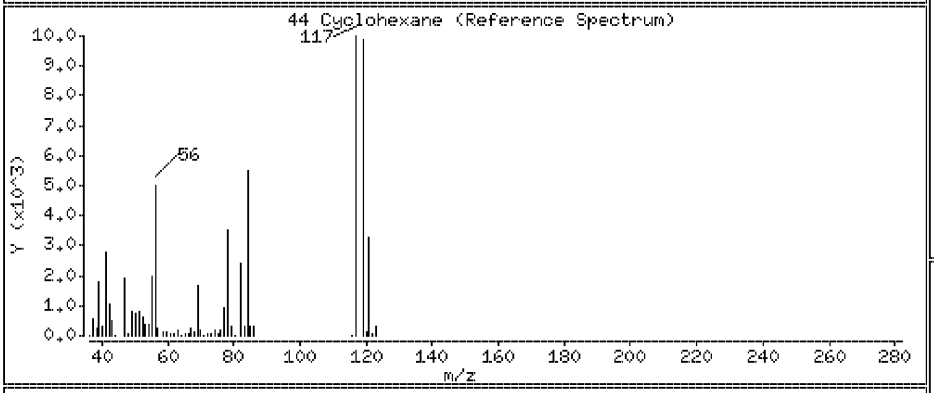
Column diameter: 0.32

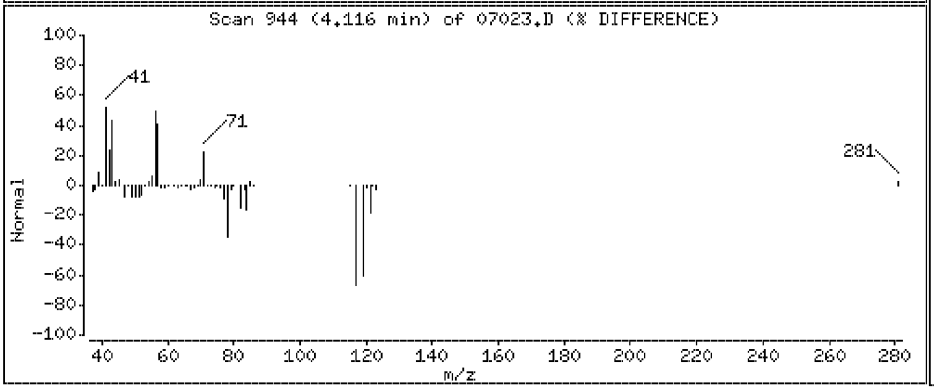
44 Cyclohexane

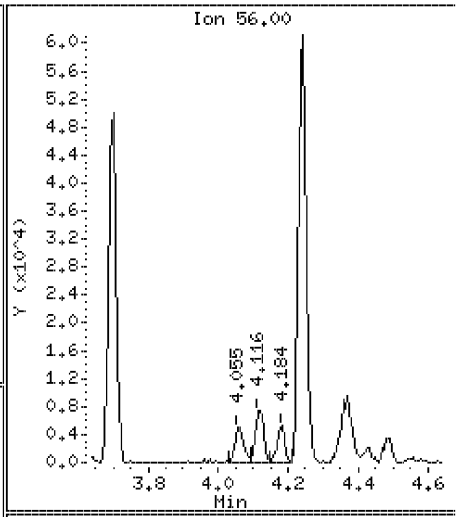
Concentration: 0.597 ppbv

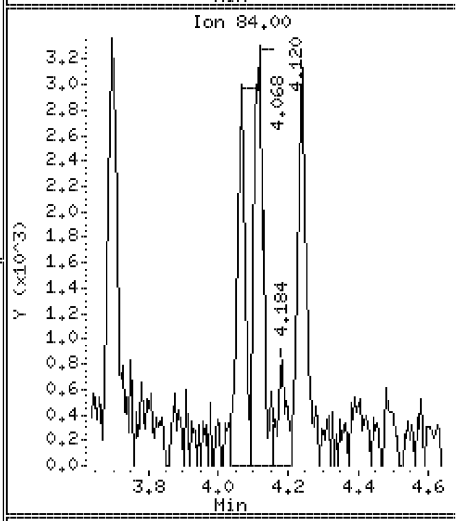


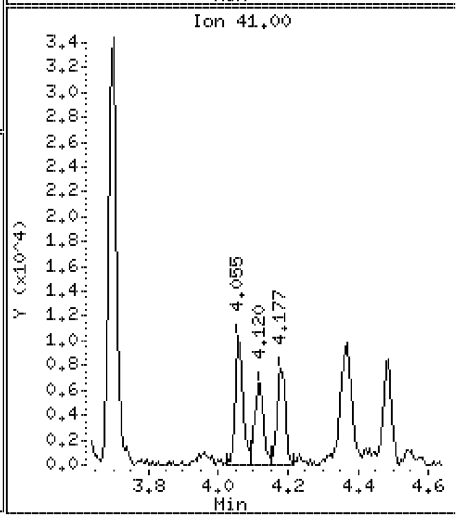












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

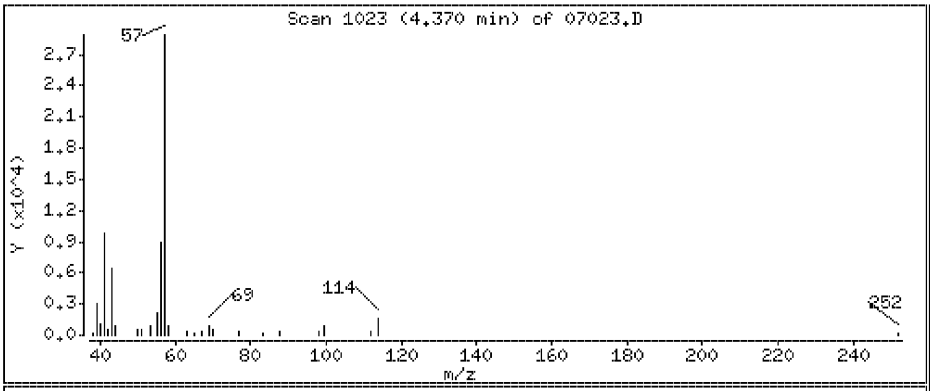
Operator: DR1

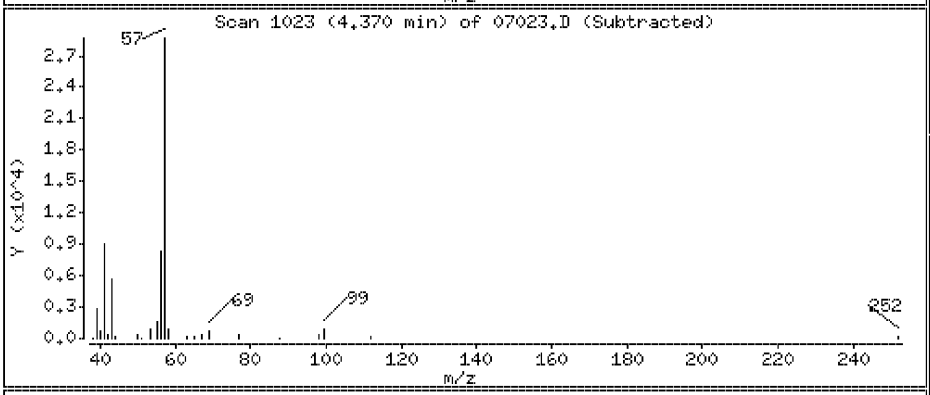
Column phase: J&W DB-5

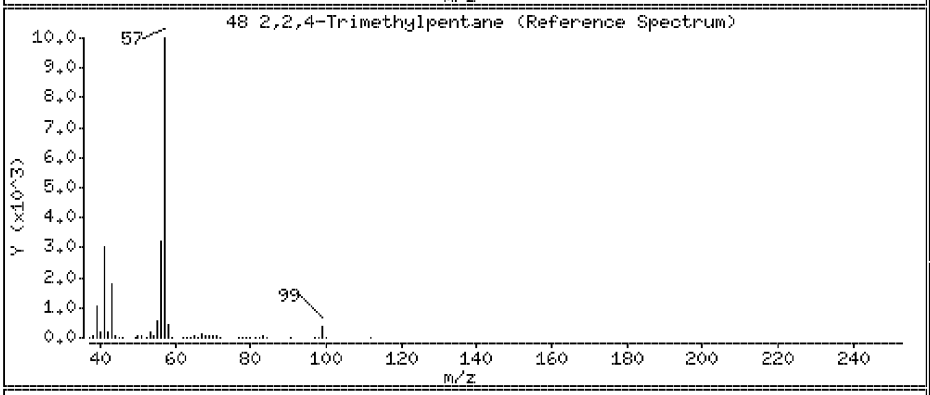
Column diameter: 0.32

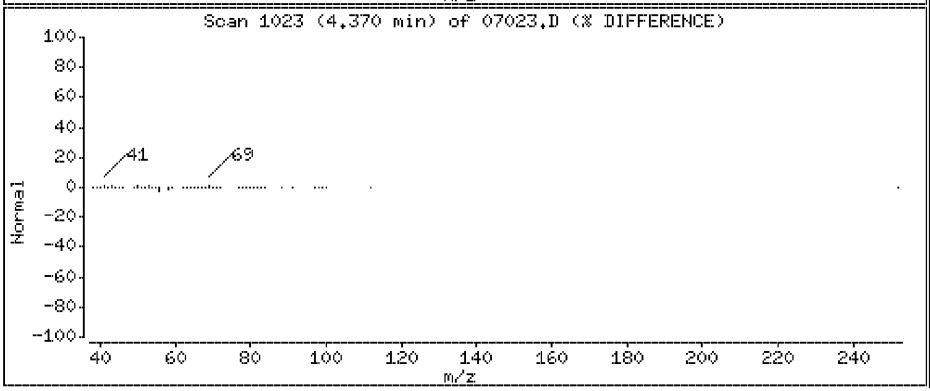
48 2,2,4-Trimethylpentane

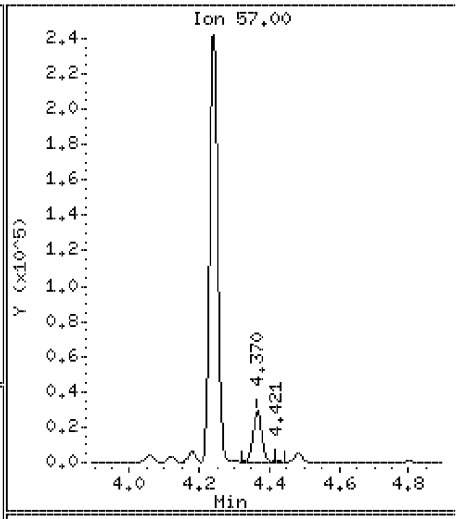
Concentration: 266 ppbv

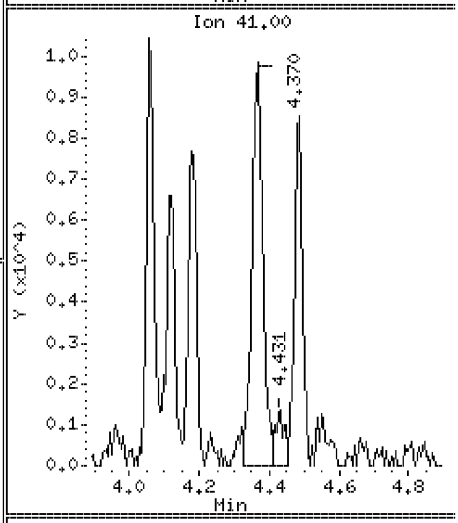


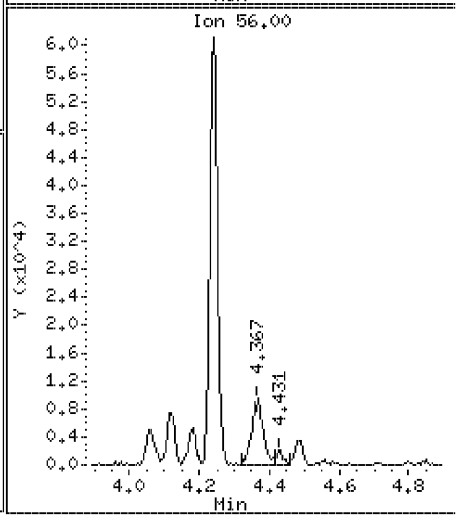












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

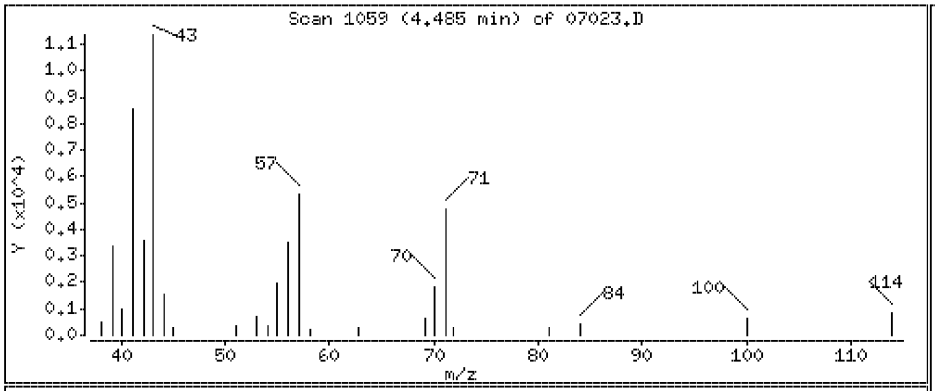
Operator: DR1

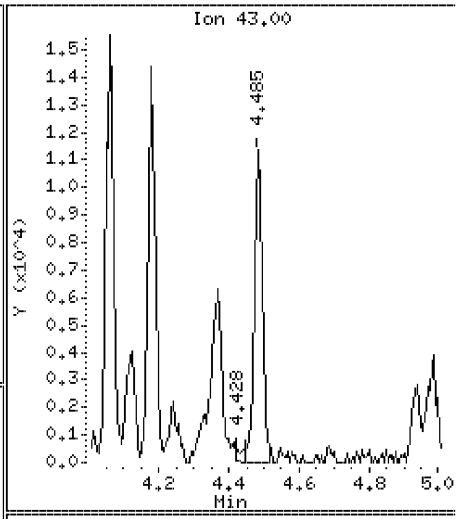
Column phase: J&W DB-5

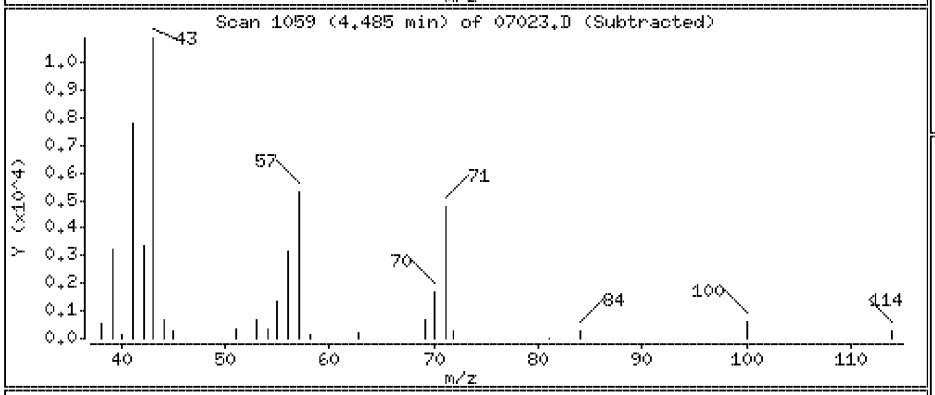
Column diameter: 0.32

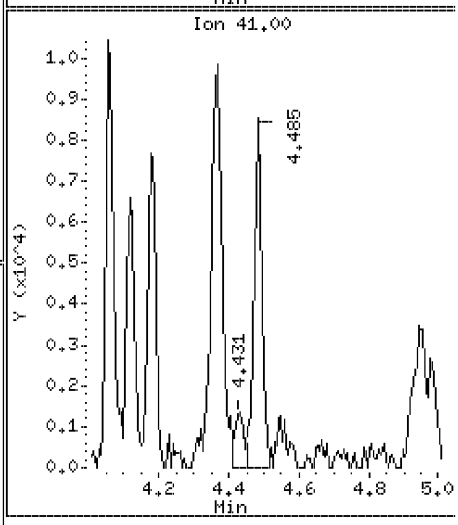
49 Heptane

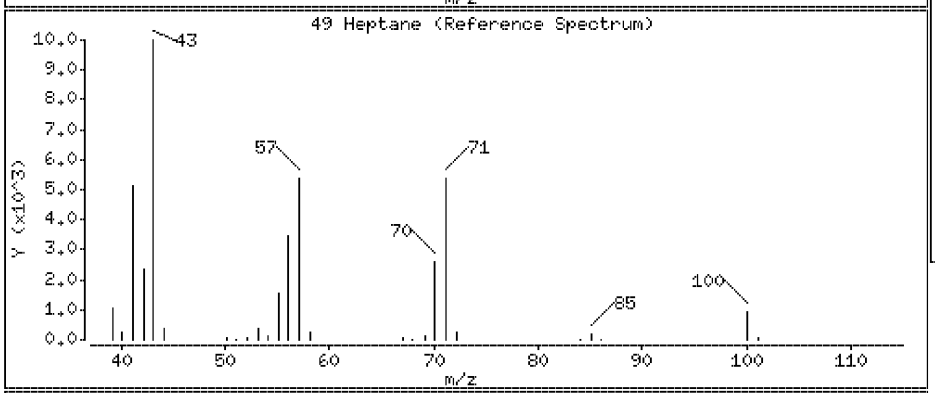
Concentration: 0.576 ppbv

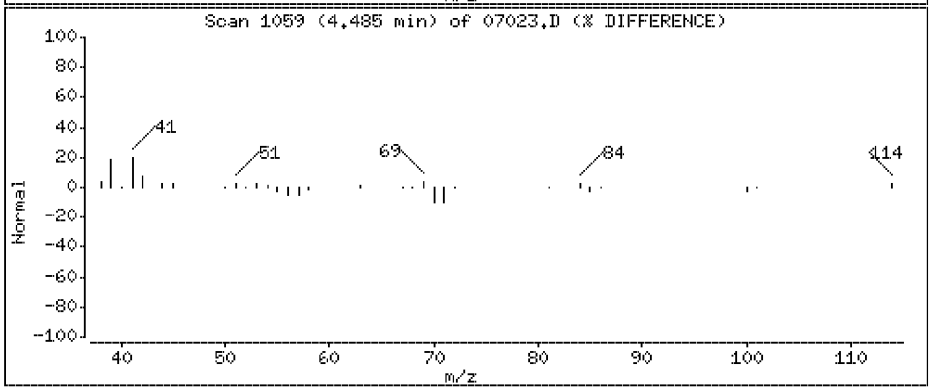












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

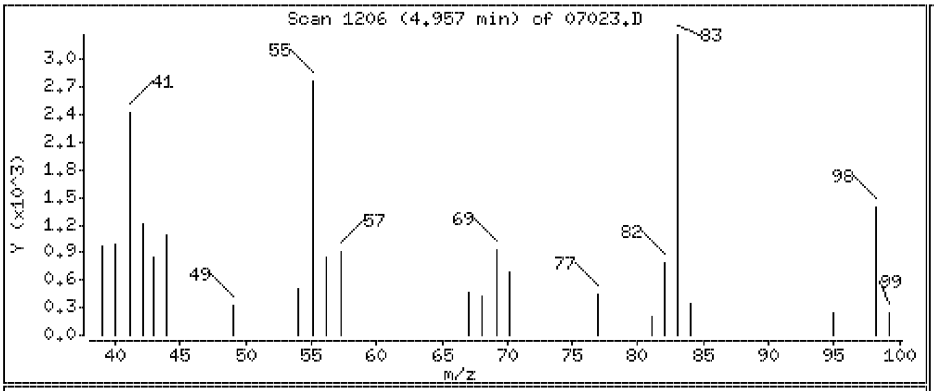
Operator: DR1

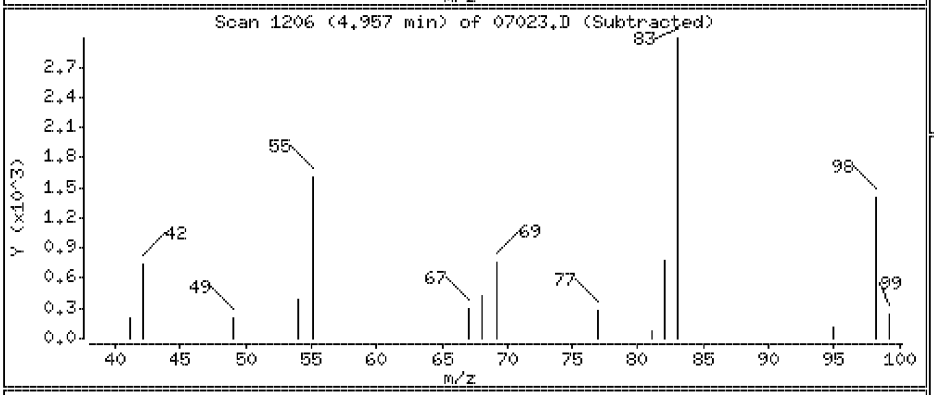
Column phase: J&W DB-5

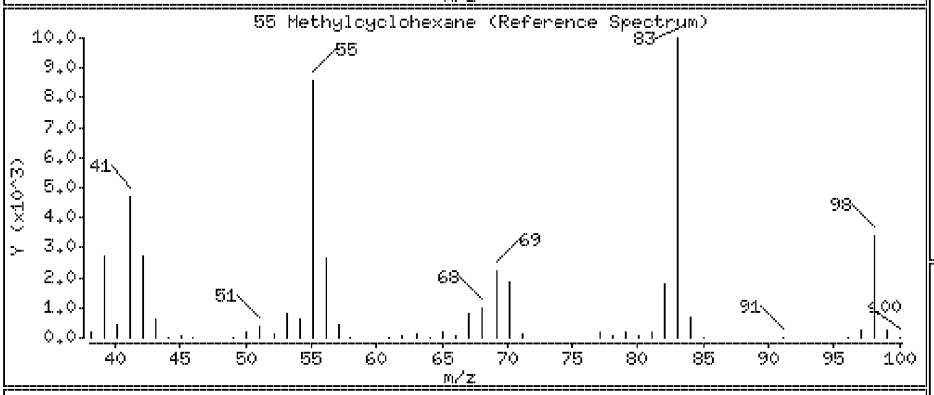
Column diameter: 0.32

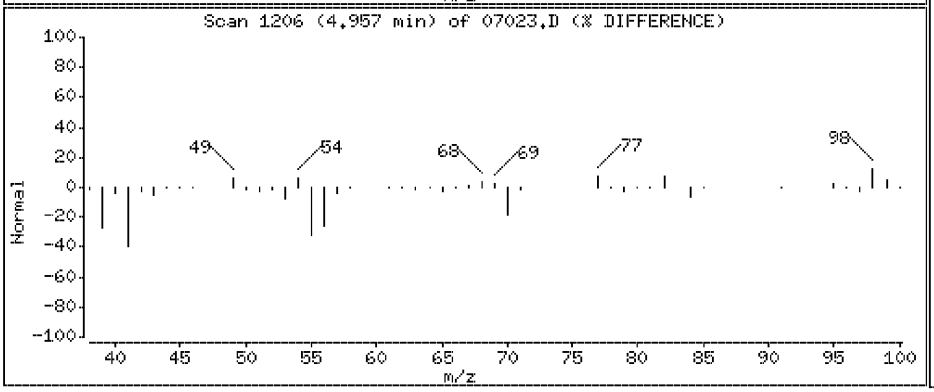
55 Methylcyclohexane

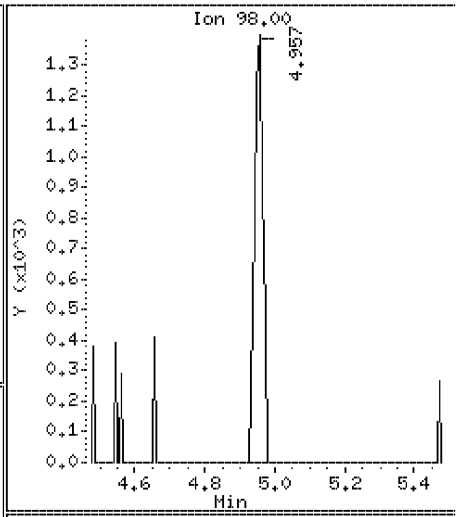
Concentration: 0.262 ppbv

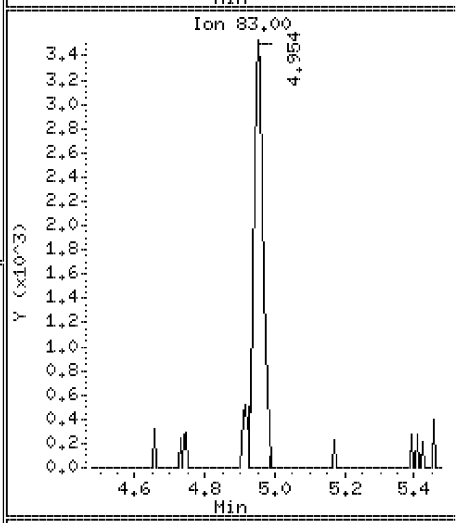


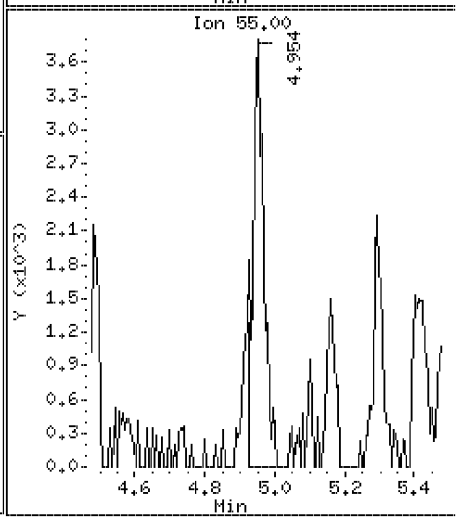












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

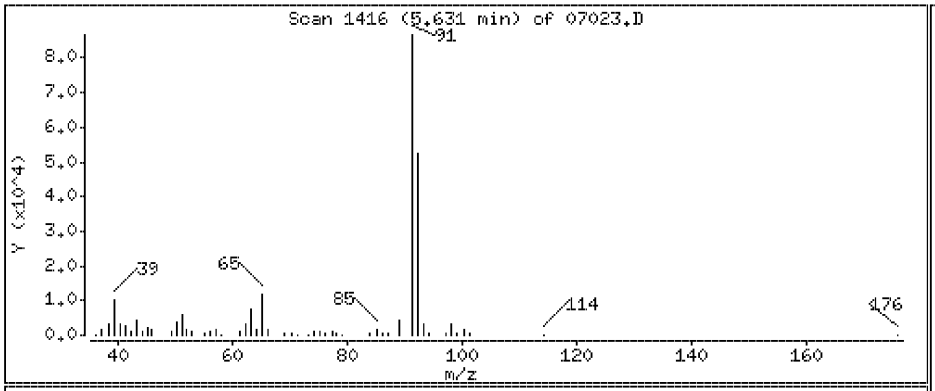
Operator: DR1

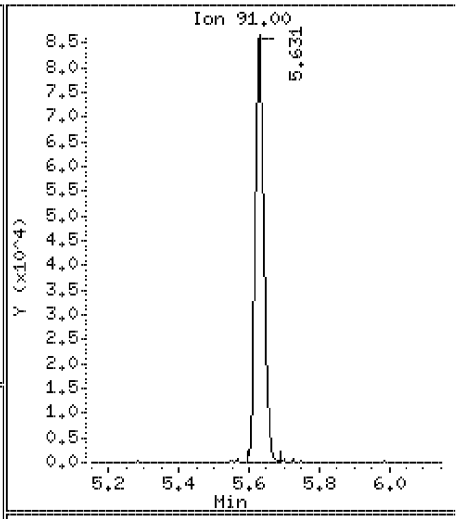
Column phase: J&W DB-5

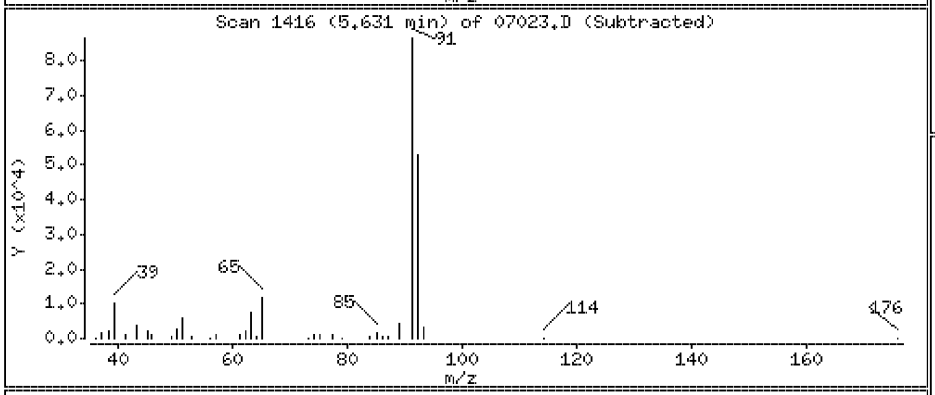
Column diameter: 0.32

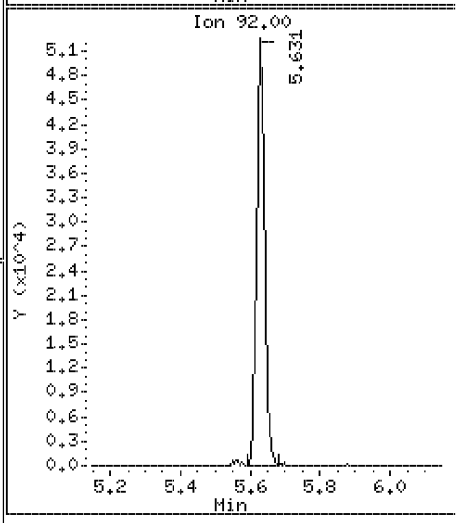
60 Toluene

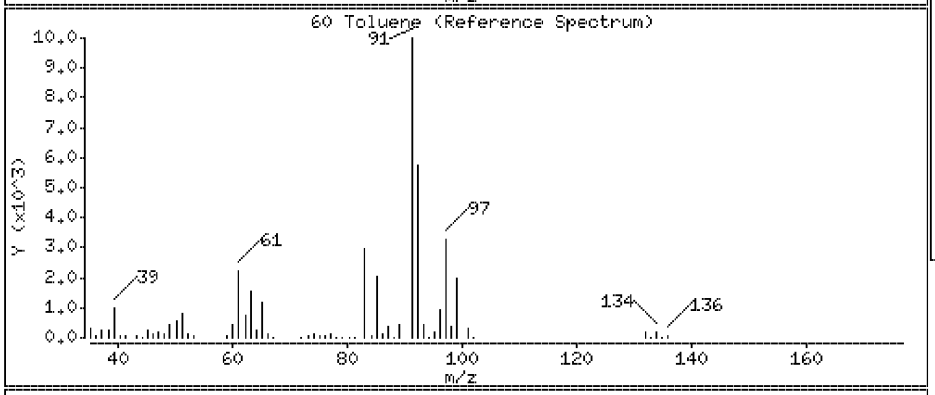
Concentration: 2.71 ppbv

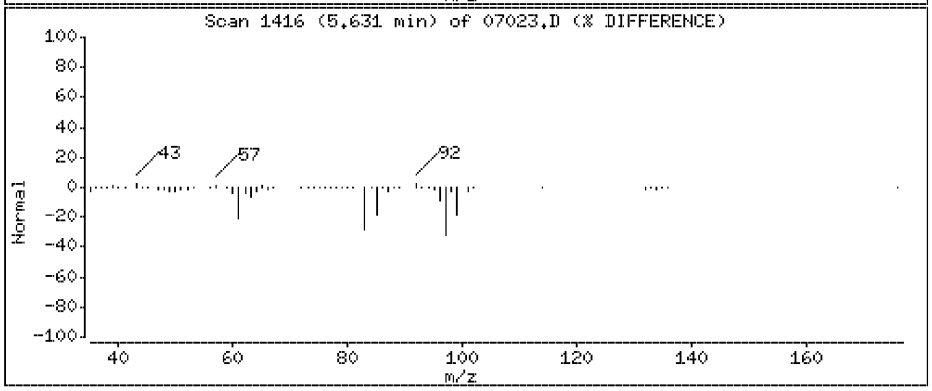












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

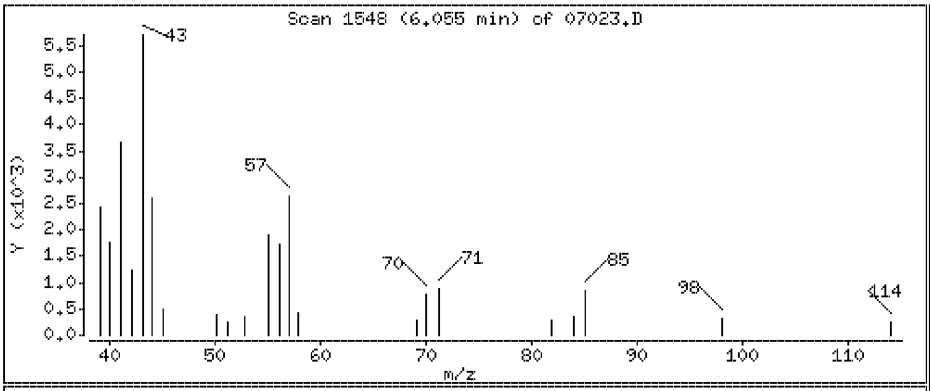
Operator: DR1

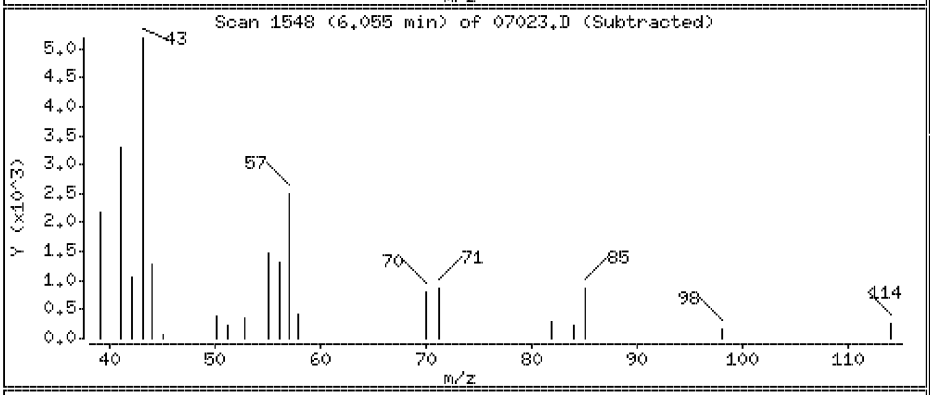
Column phase: J&W DB-5

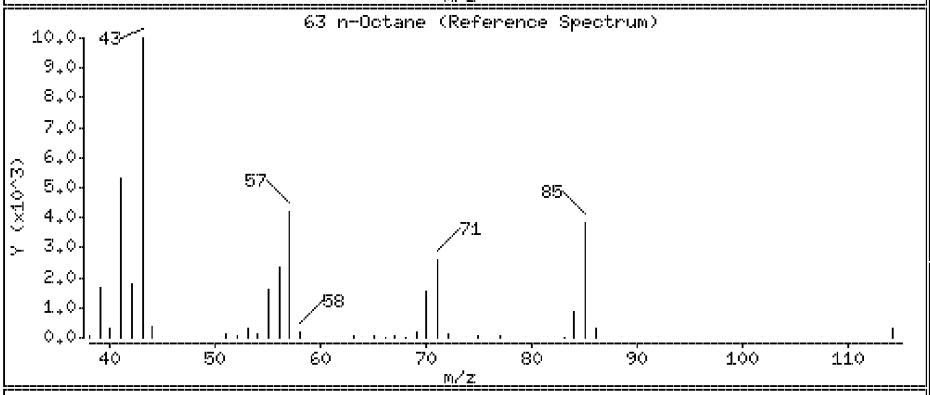
Column diameter: 0.32

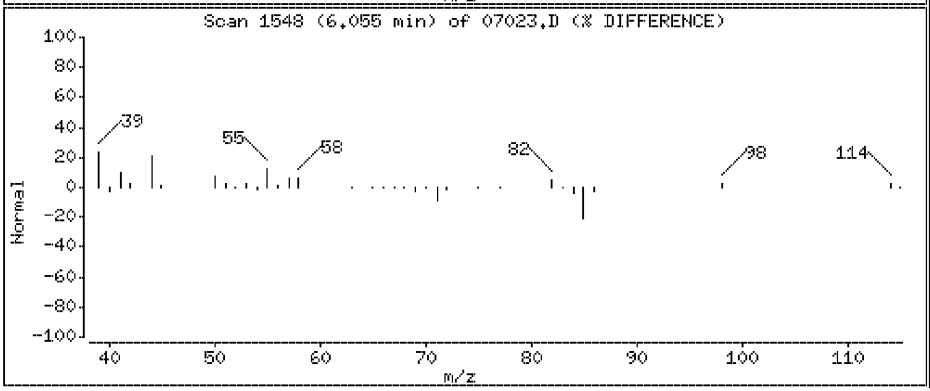
63 n-Octane

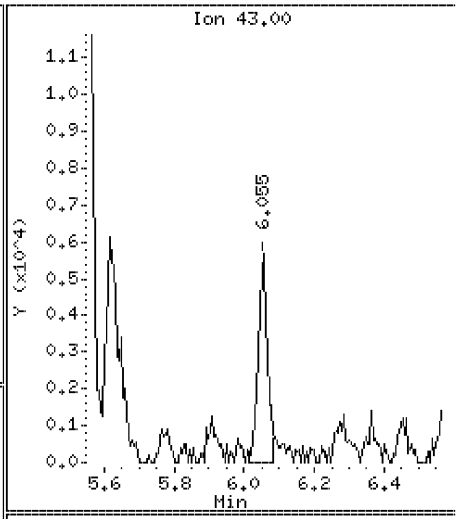
Concentration: 0.333 ppbv

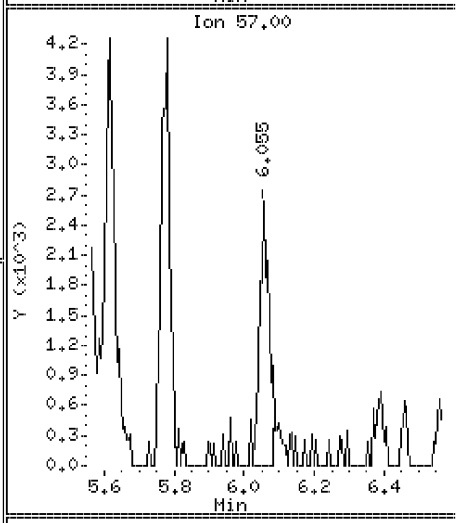


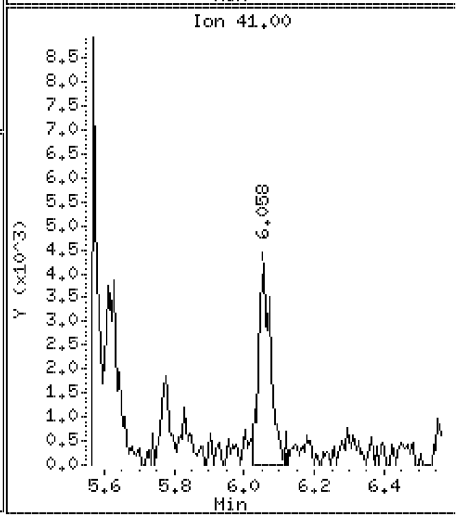












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

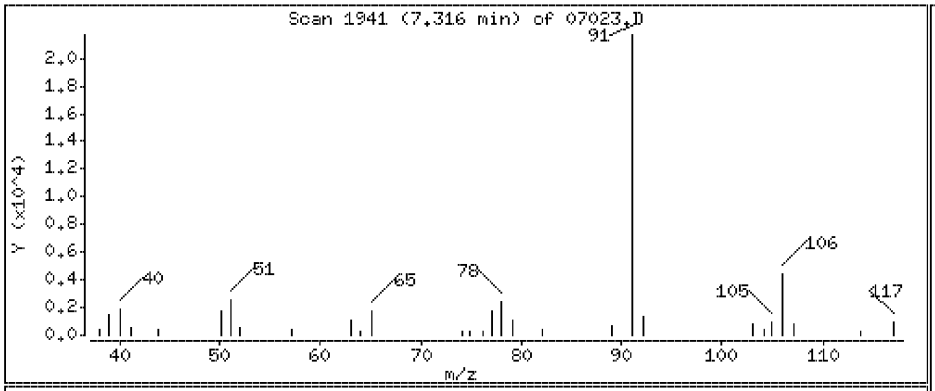
Operator: DR1

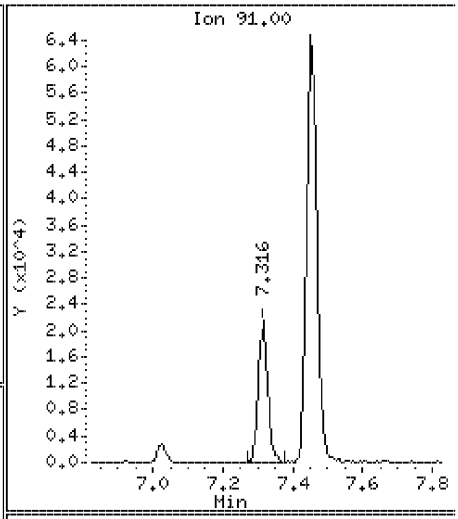
Column phase: J&W DB-5

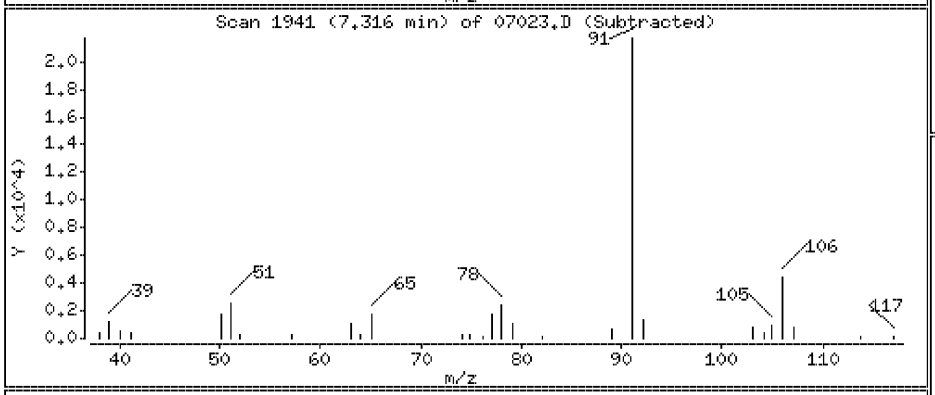
Column diameter: 0.32

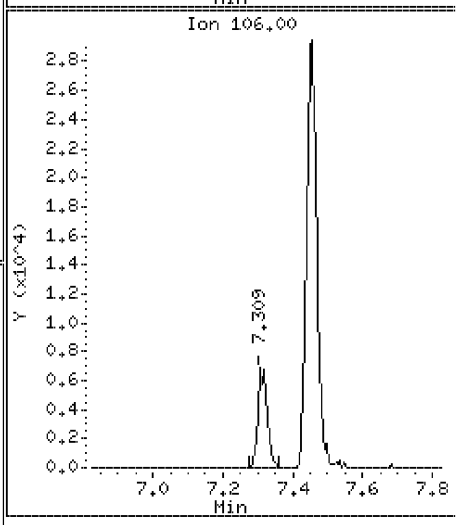
69 Ethyl Benzene

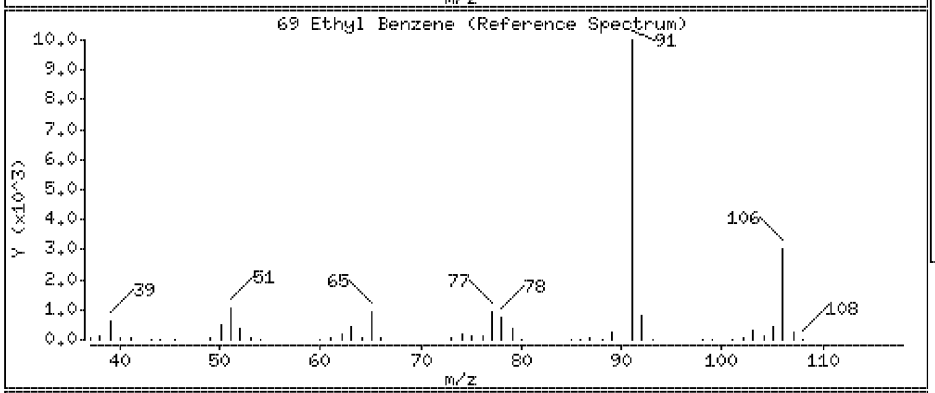
Concentration: 0.714 ppbv

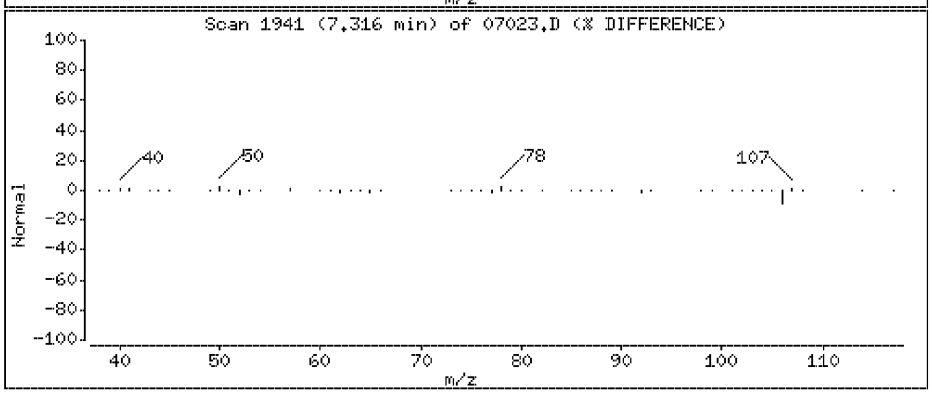












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

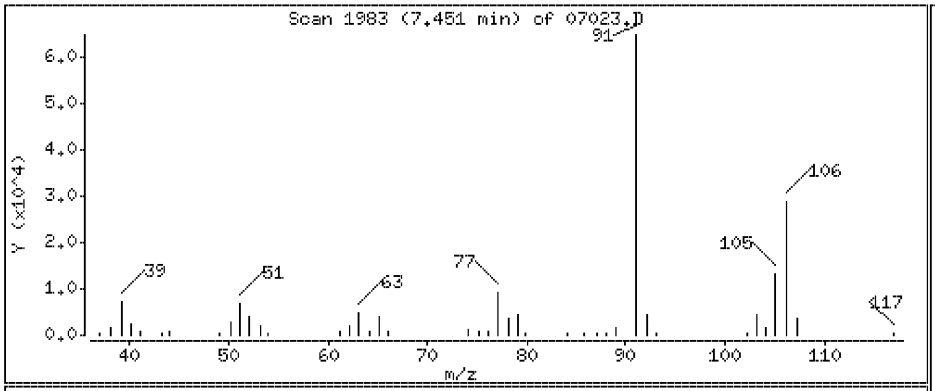
Operator: DR1

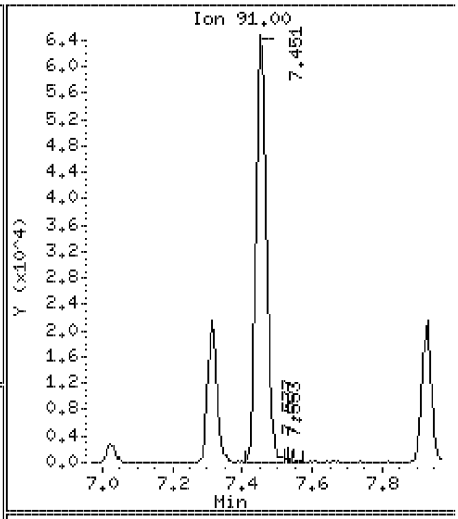
Column phase: J&W DB-5

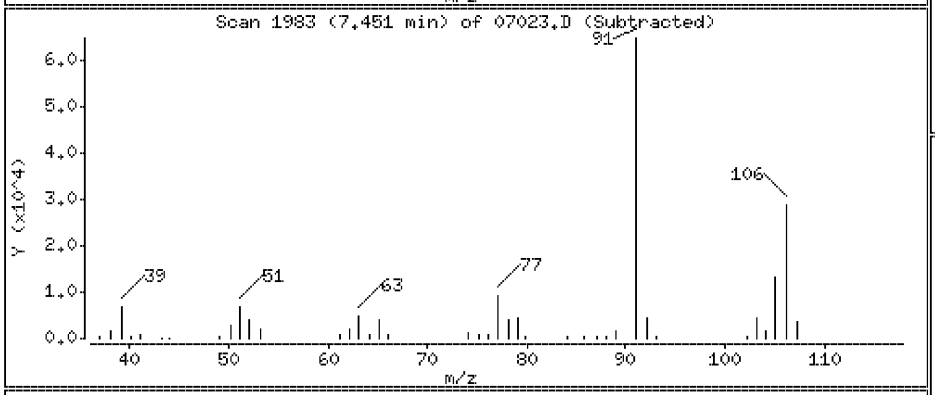
Column diameter: 0.32

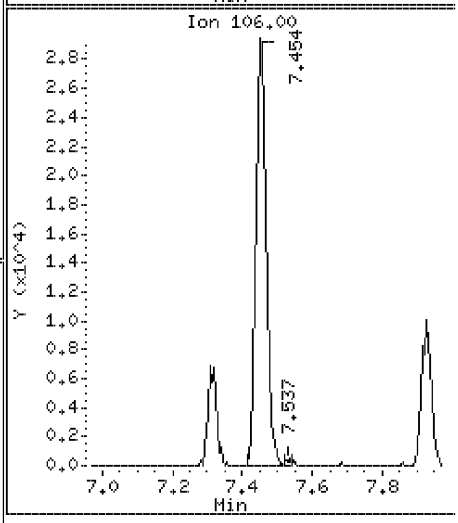
70 m&p-Xylene

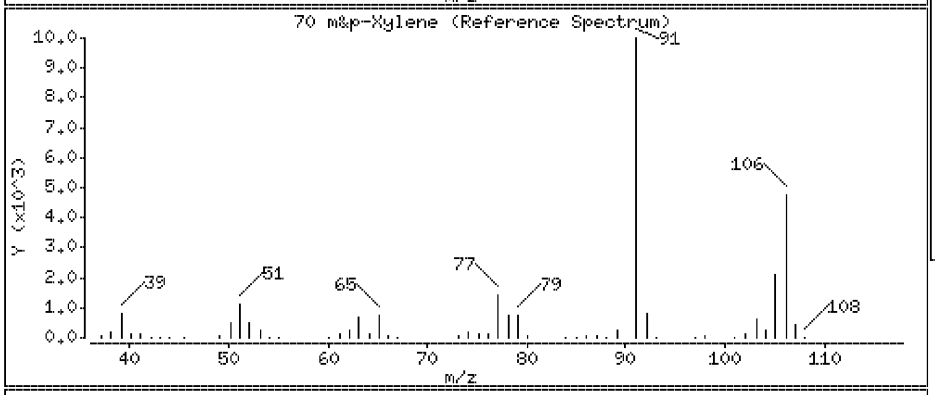
Concentration: 2.85 ppbv

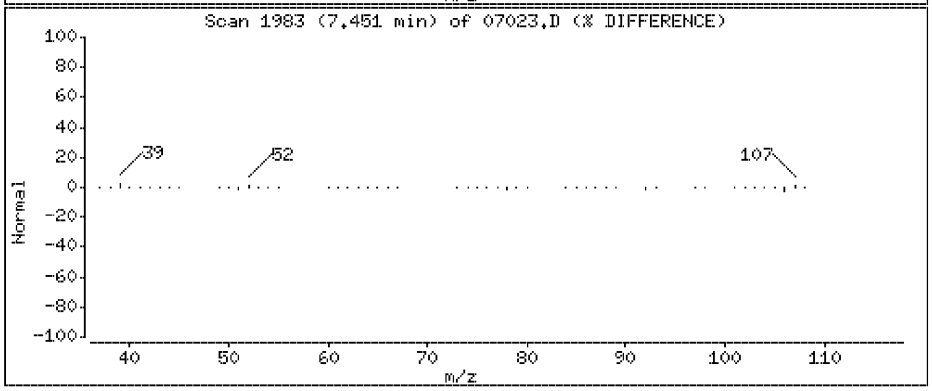












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

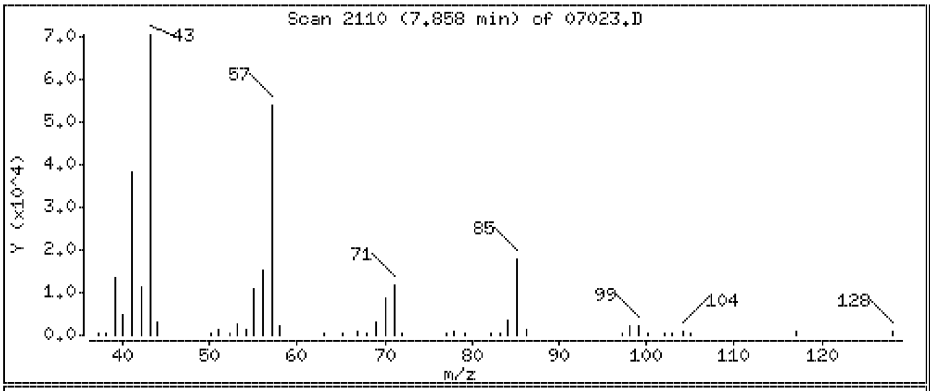
Operator: DR1

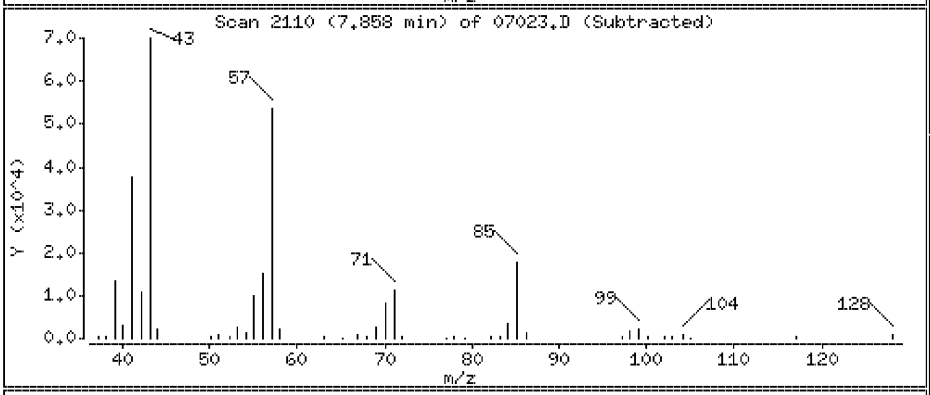
Column phase: J&W DB-5

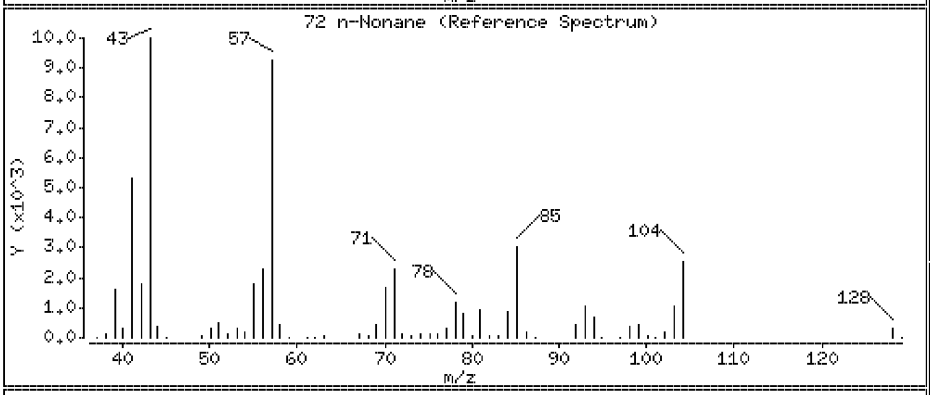
Column diameter: 0.32

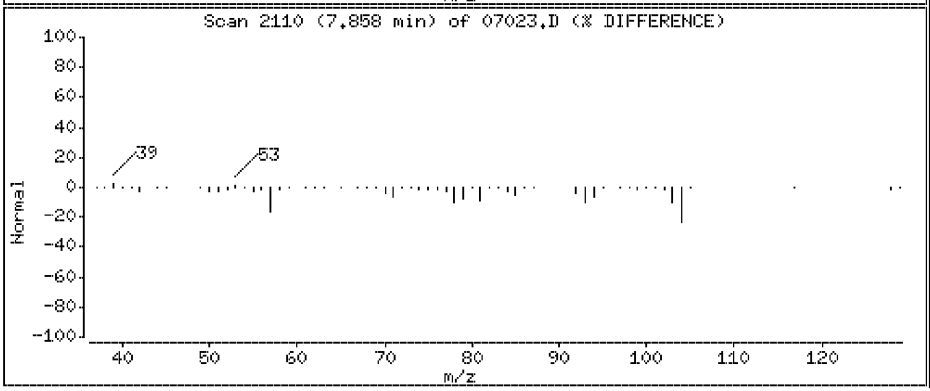
72 n-Nonane

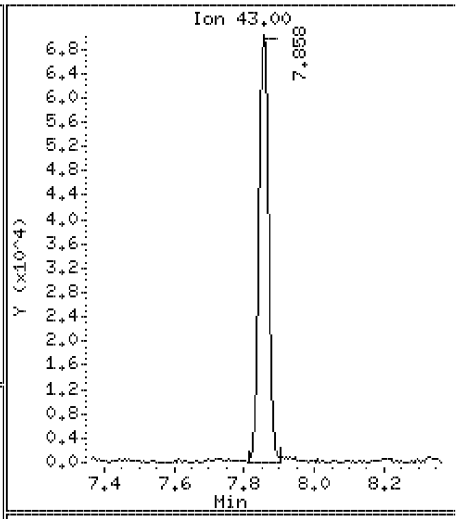
Concentration: 4.60 ppbv

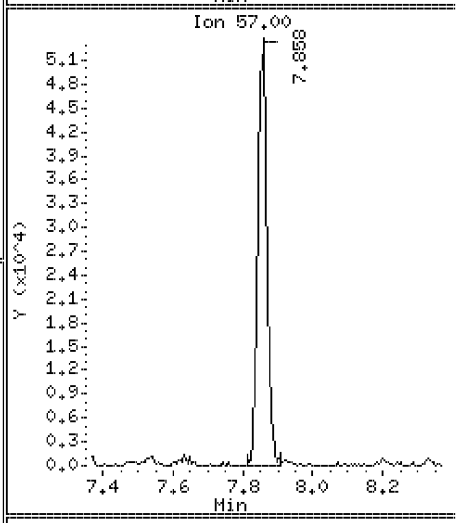


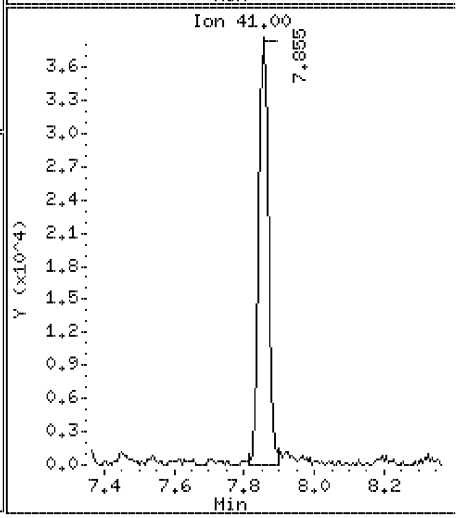












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

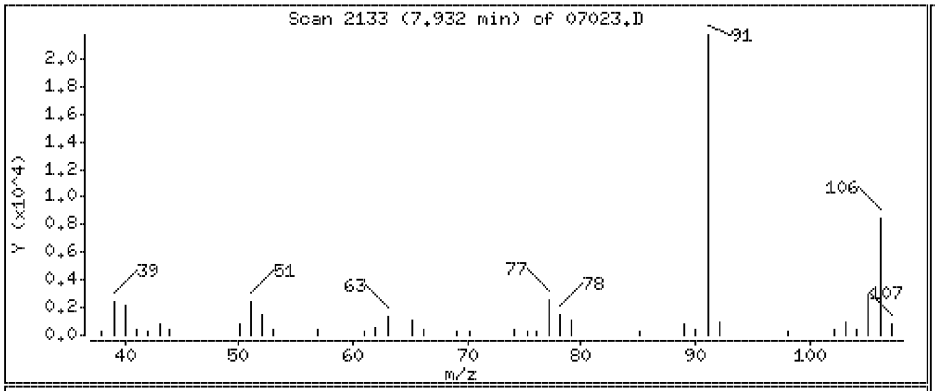
Operator: DR1

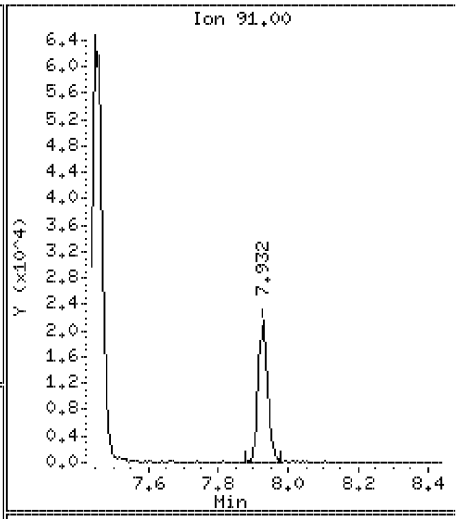
Column phase: J&W DB-5

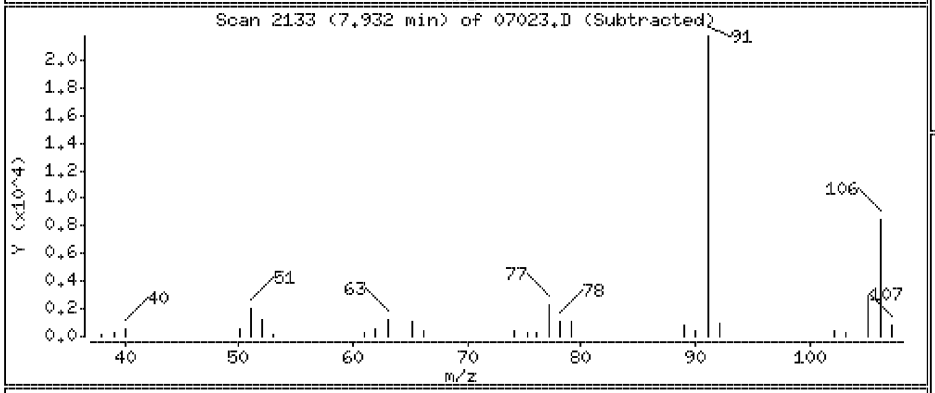
Column diameter: 0.32

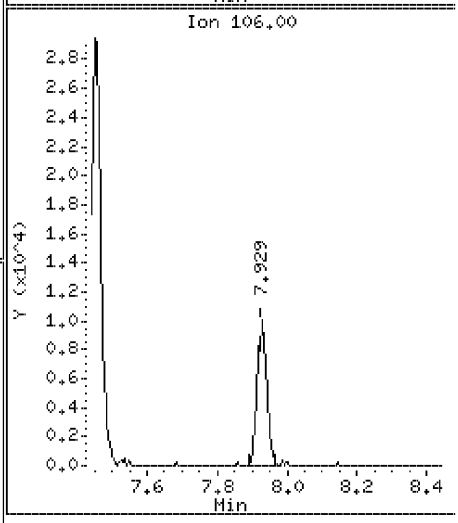
74 o-Xylene

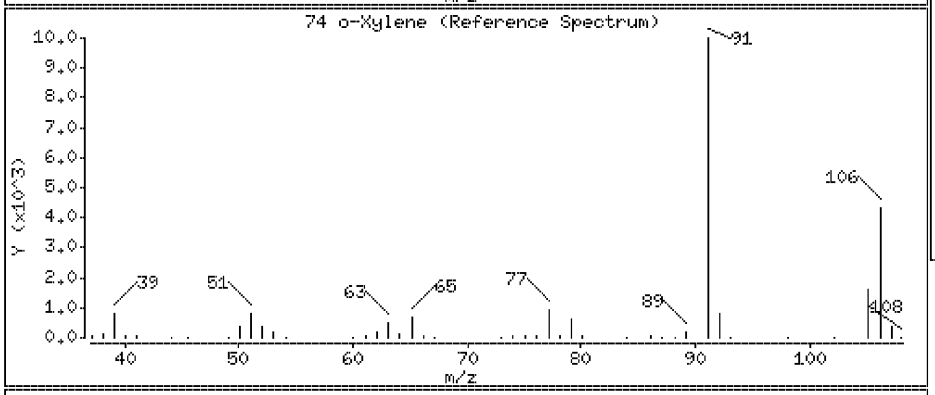
Concentration: 0.881 ppbv

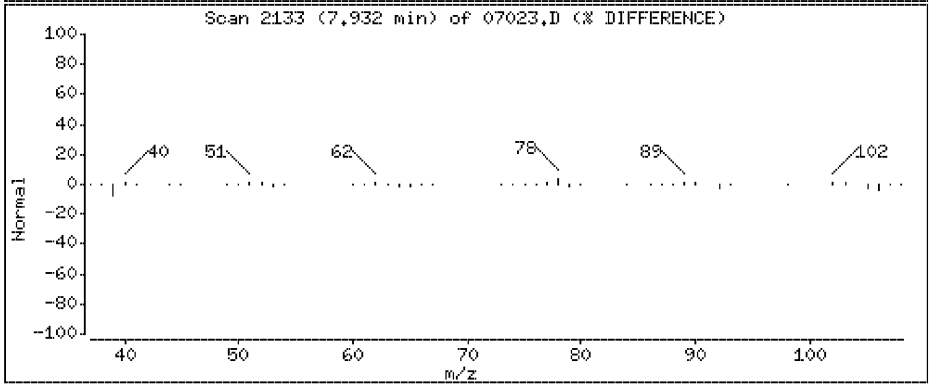












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

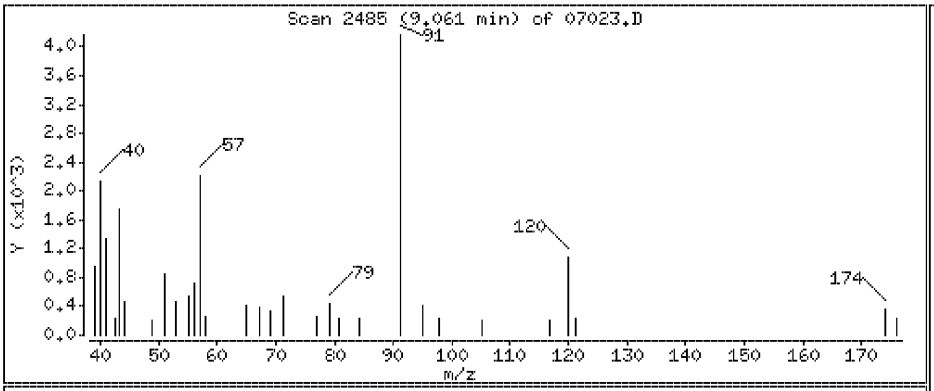
Operator: DR1

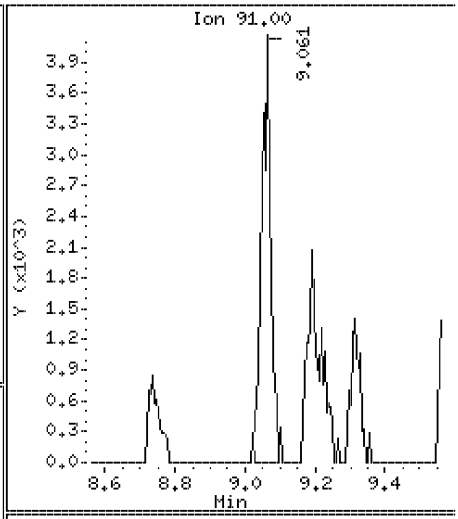
Column phase: J&W DB-5

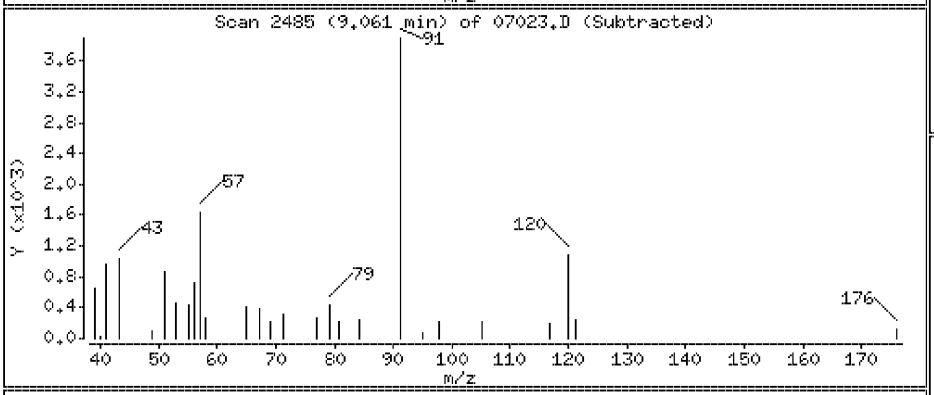
Column diameter: 0.32

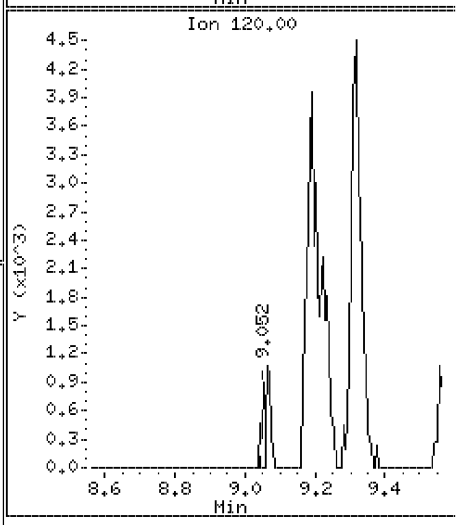
77 N-Propylbenzene

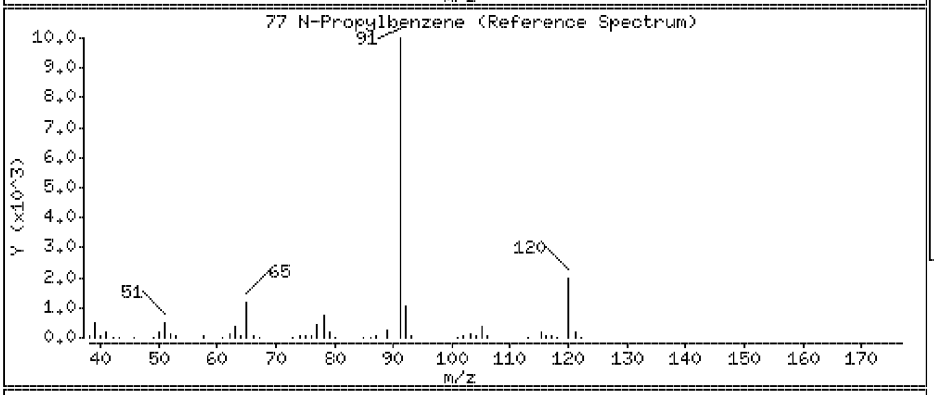
Concentration: 0.118 ppbv

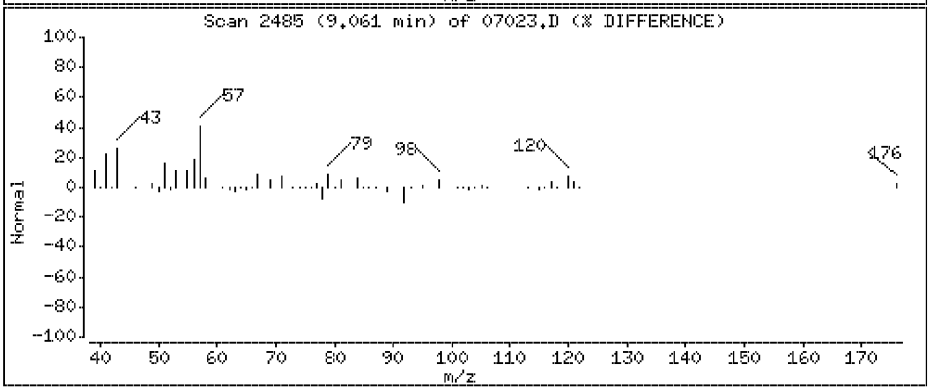












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

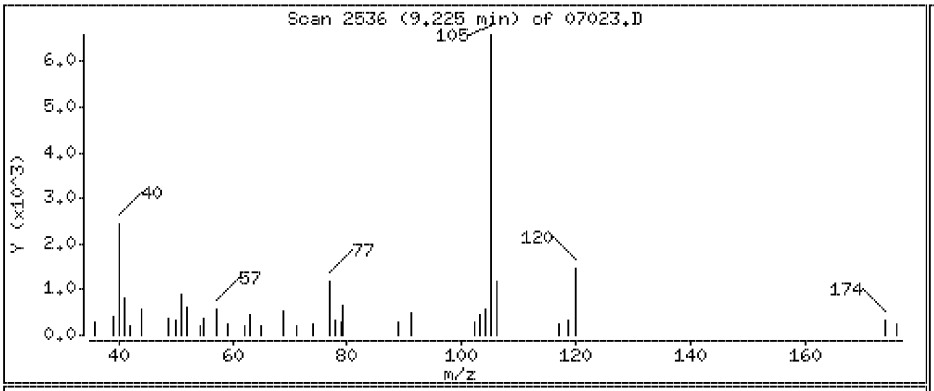
Operator: DR1

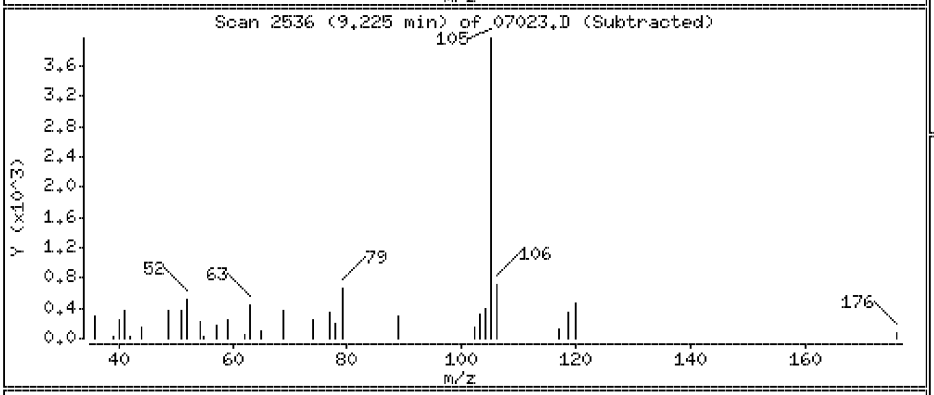
Column phase: J&W DB-5

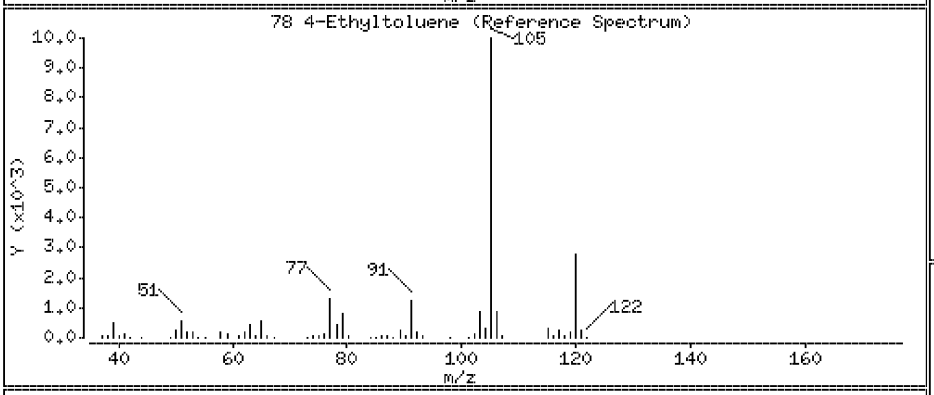
Column diameter: 0.32

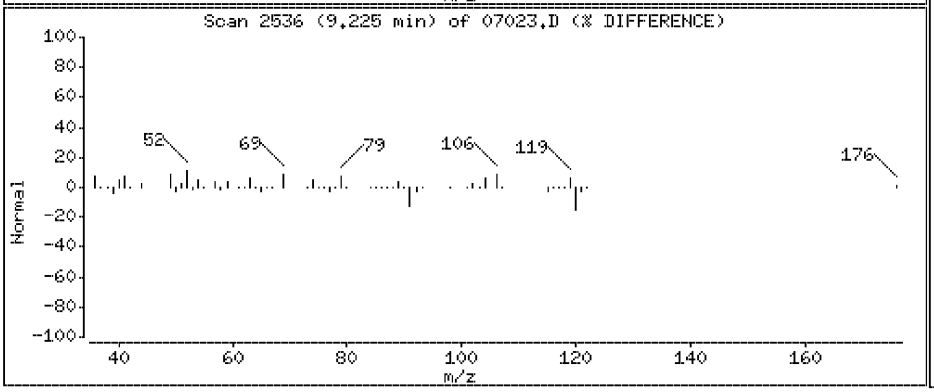
78 4-Ethyltoluene

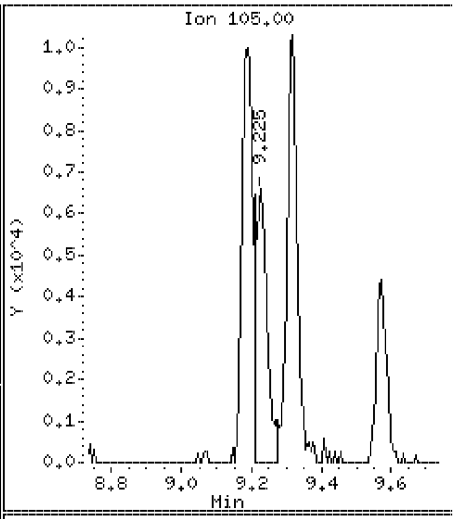
Concentration: 0.293 ppbv

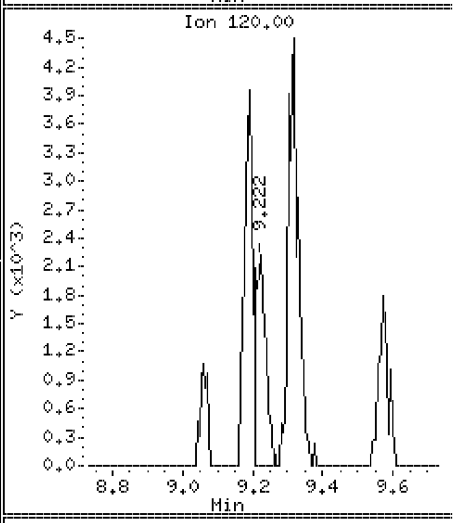


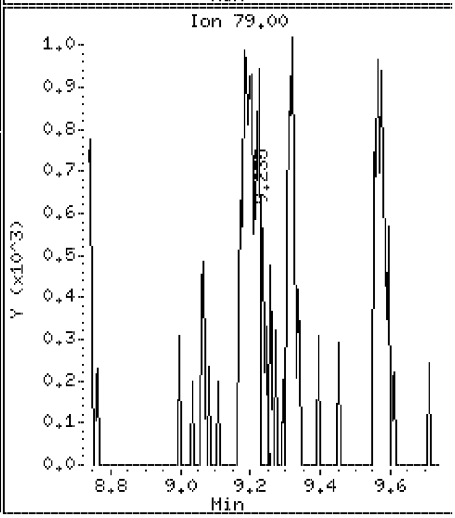












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

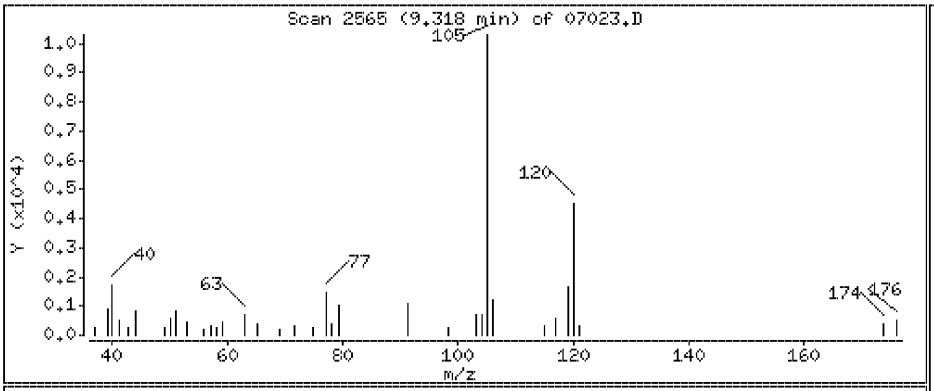
Operator: DR1

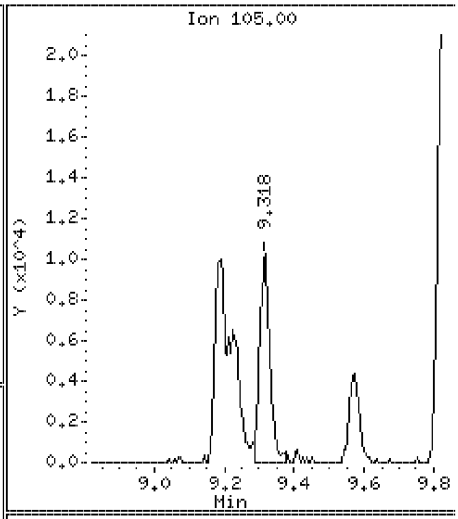
Column phase: J&W DB-5

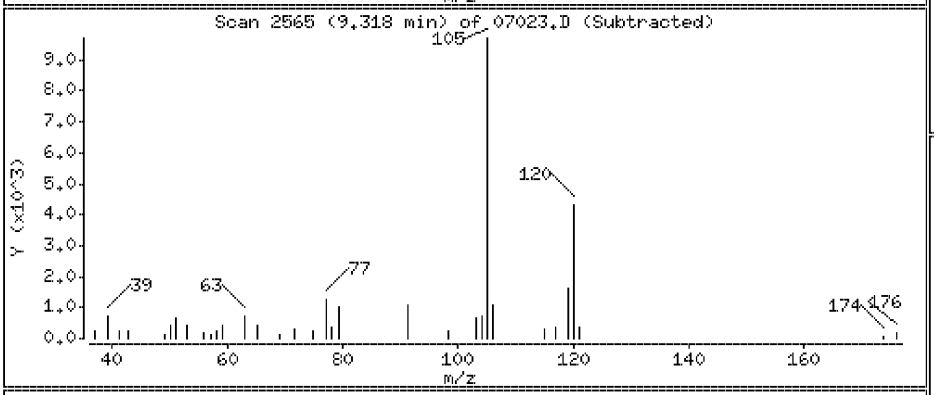
Column diameter: 0.32

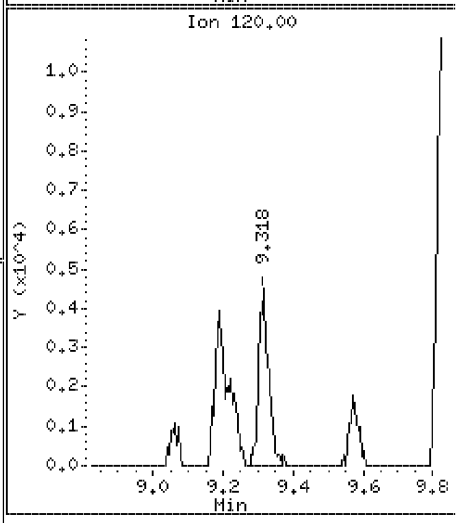
79 1,3,5-Trimethylbenzene

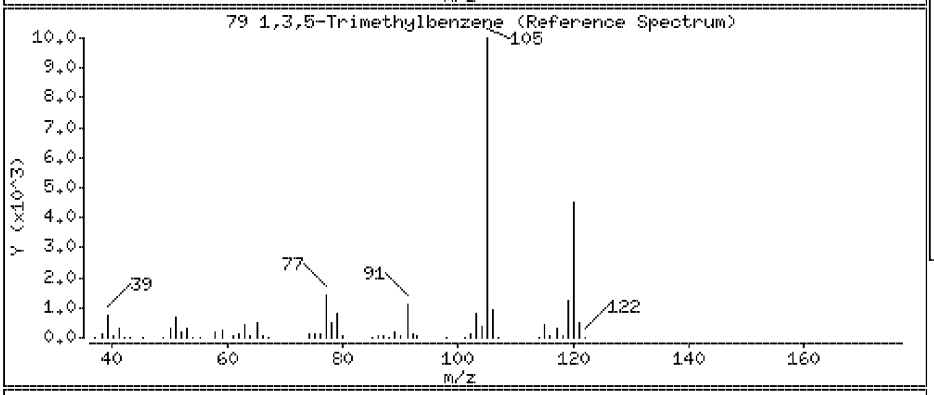
Concentration: 0.398 ppbv

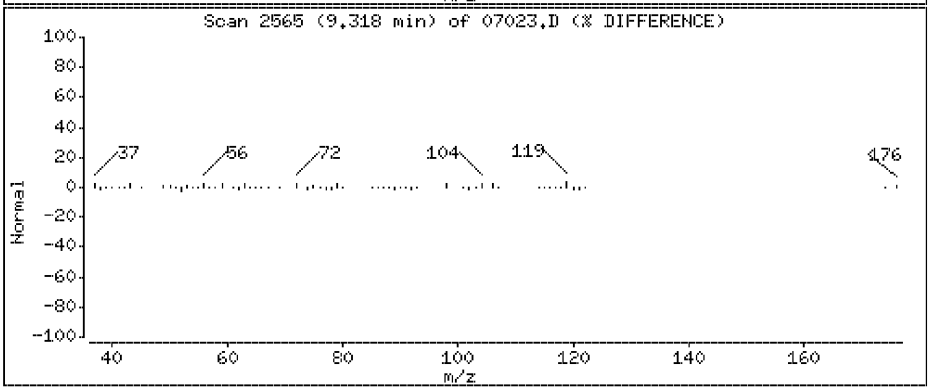












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

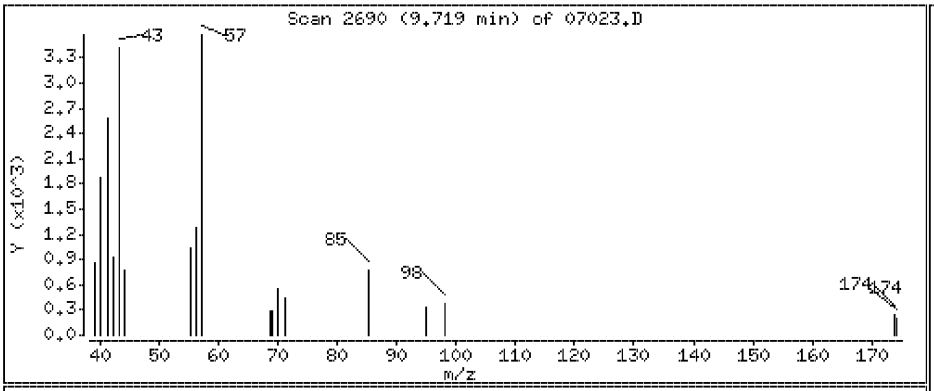
Operator: DR1

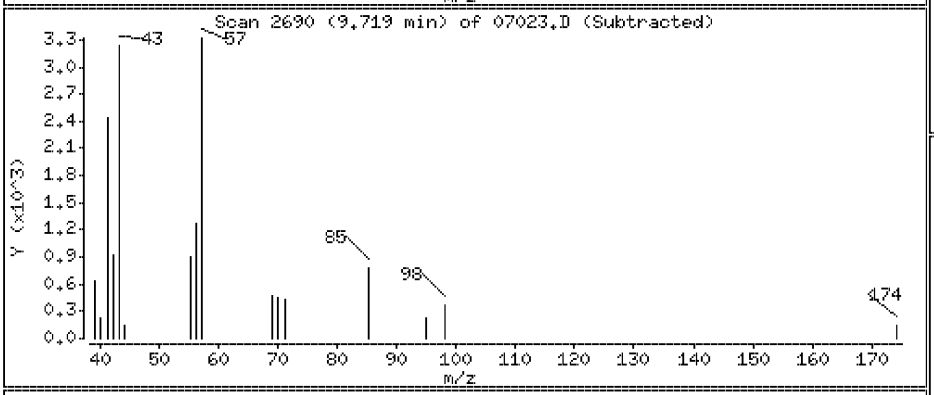
Column phase: J&W DB-5

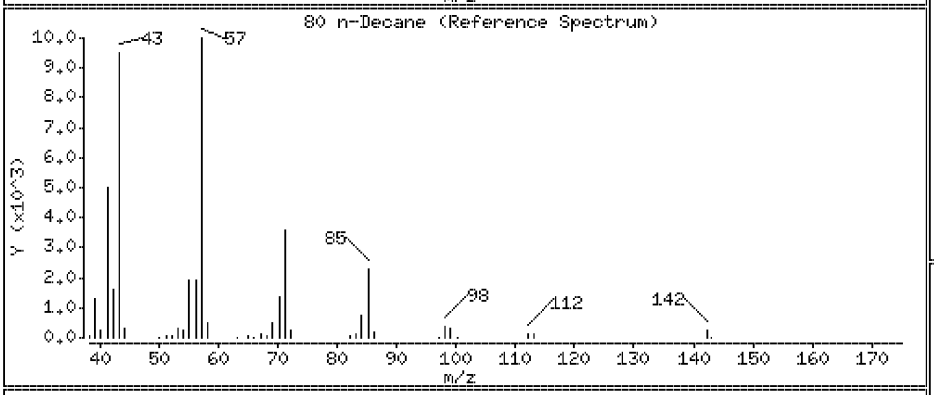
Column diameter: 0.32

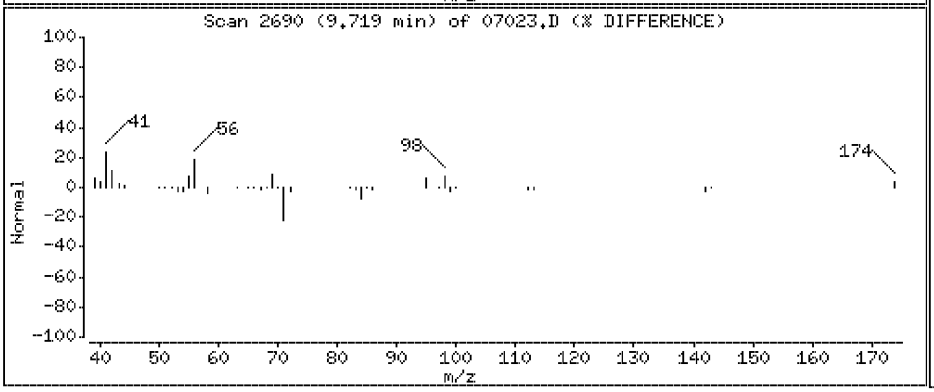
80 n-Decane

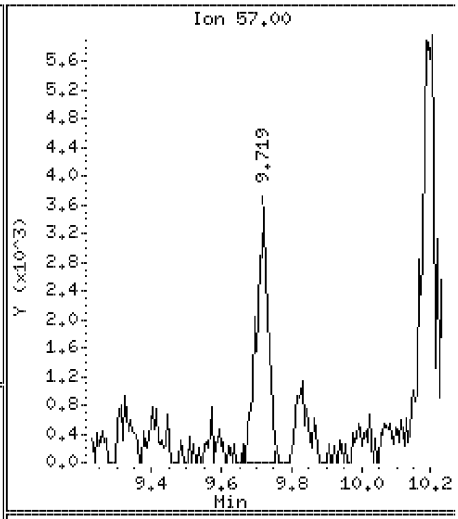
Concentration: 0.280 ppbv

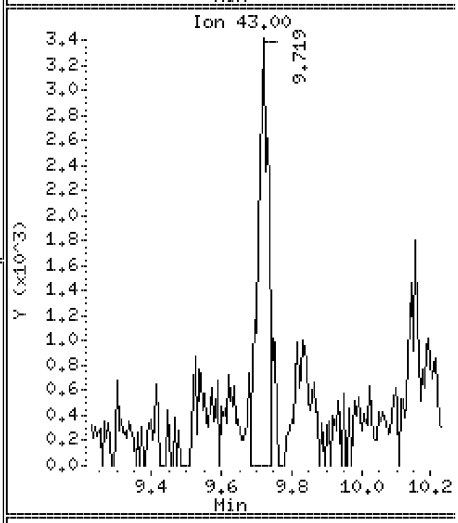


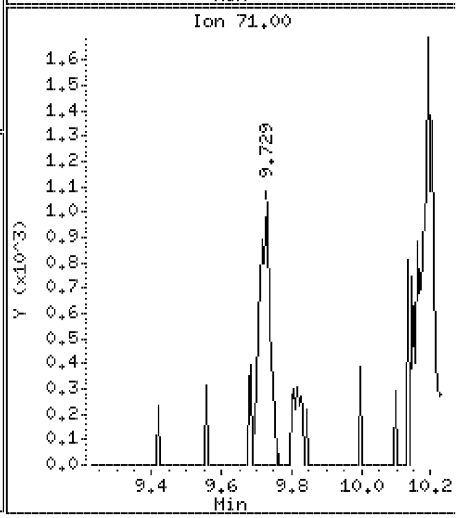












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

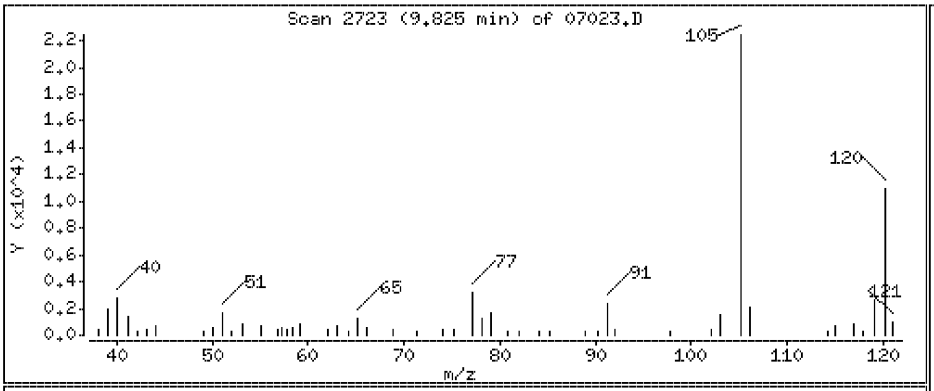
Operator: DR1

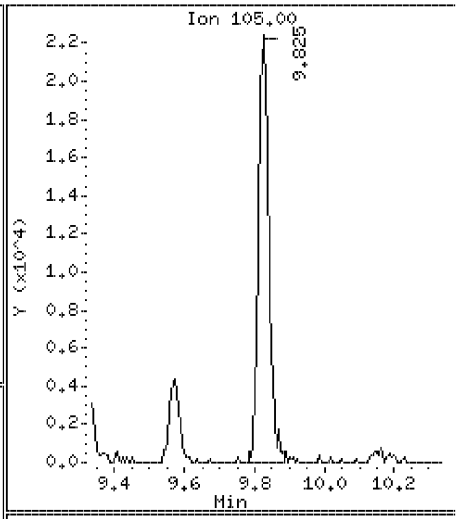
Column phase: J&W DB-5

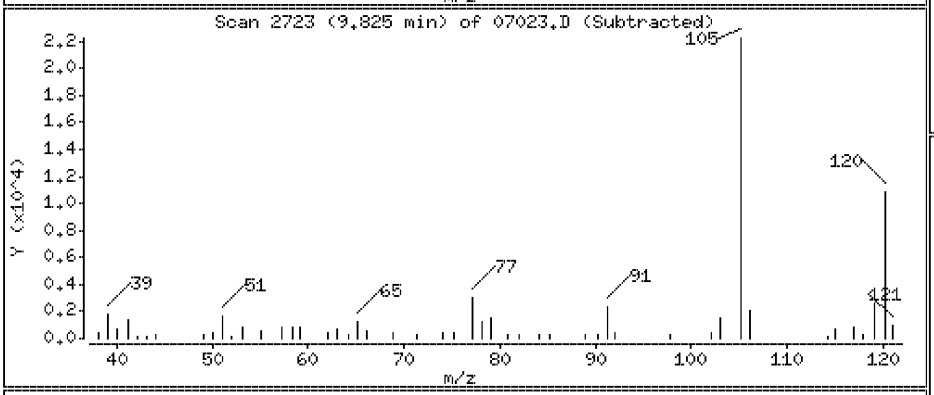
Column diameter: 0.32

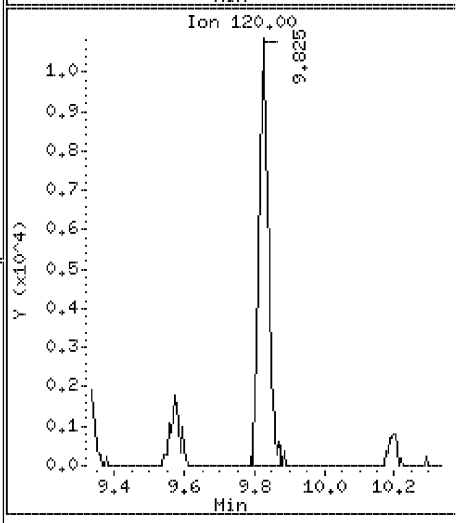
82 1,2,4-Trimethylbenzene

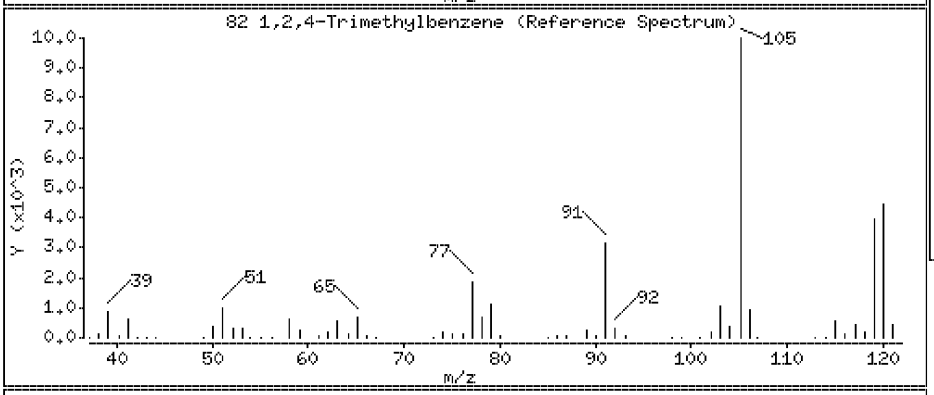
Concentration: 0.879 ppbv

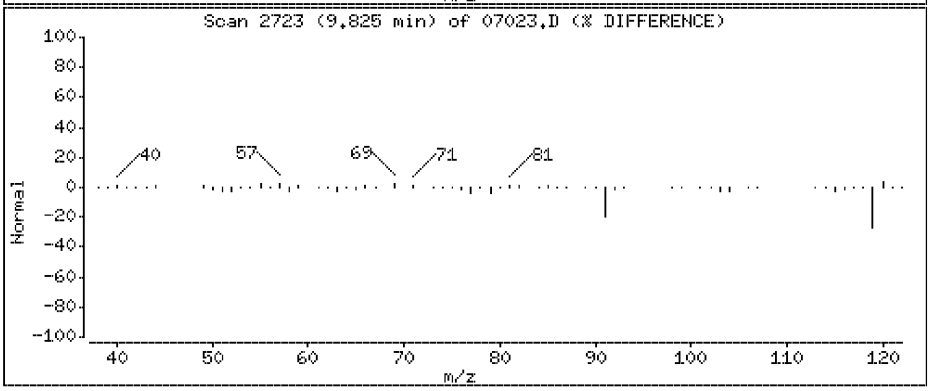












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

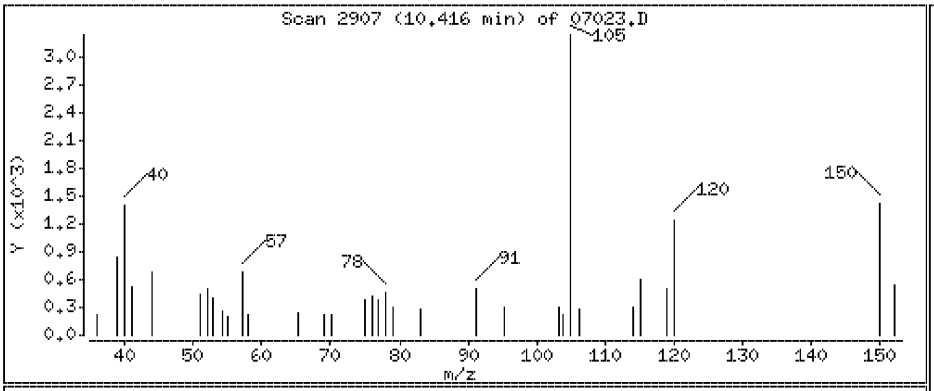
Operator: DR1

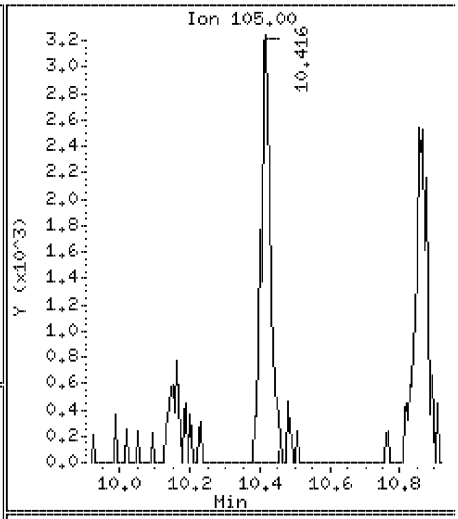
Column phase: J&W DB-5

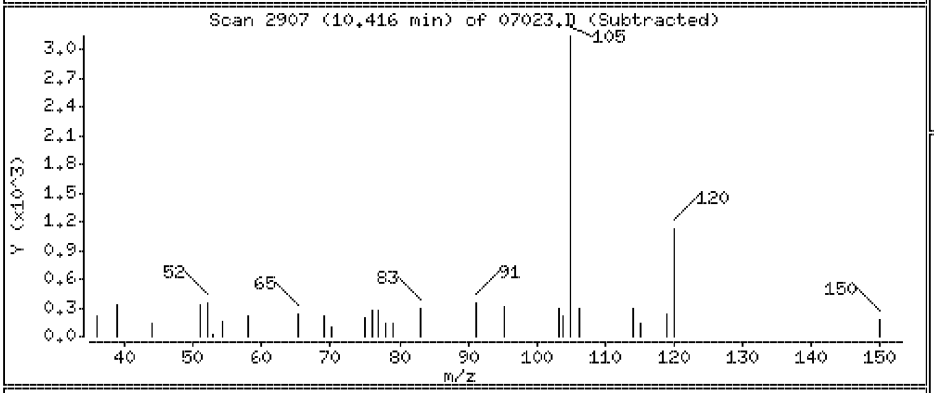
Column diameter: 0.32

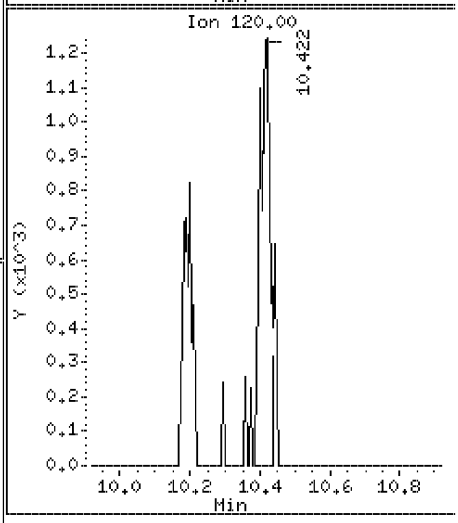
89 1,2,3-Trimethylbenzene

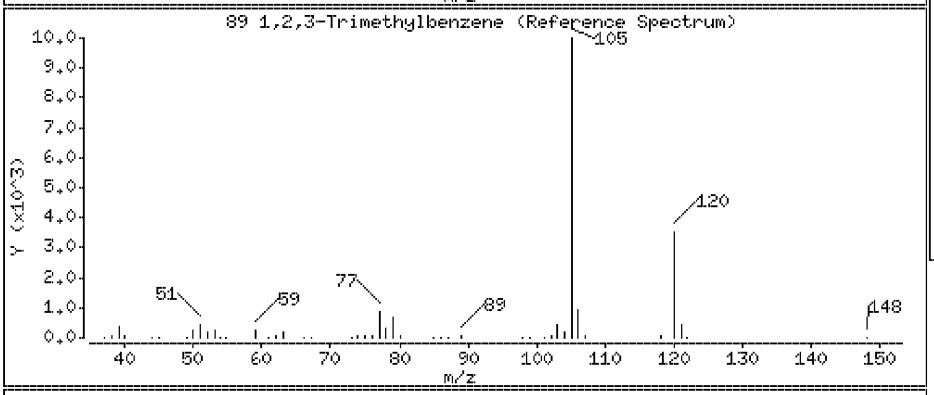
Concentration: 0.156 ppbv

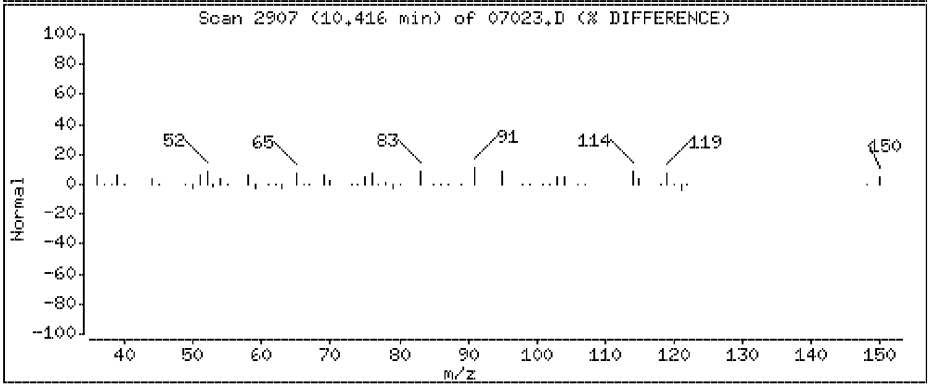












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

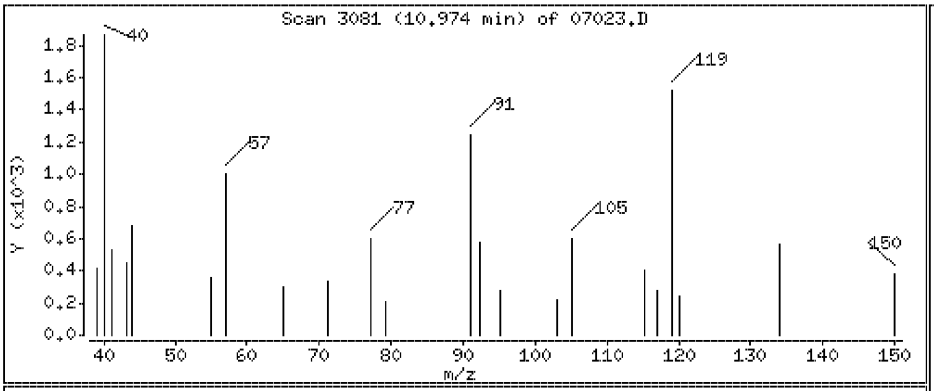
Operator: DR1

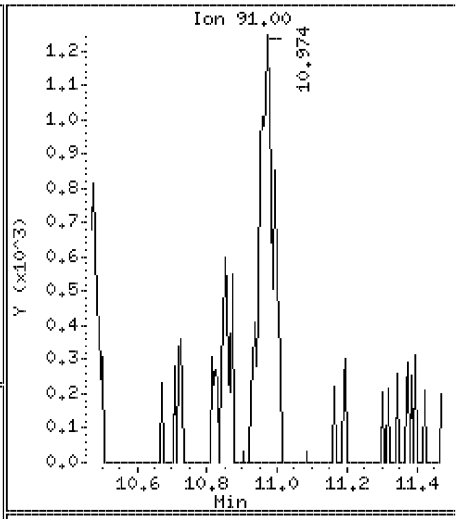
Column phase: J&W DB-5

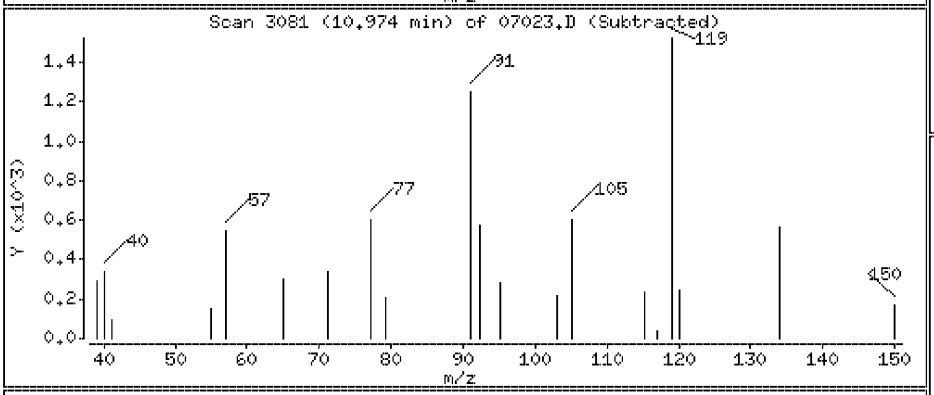
Column diameter: 0.32

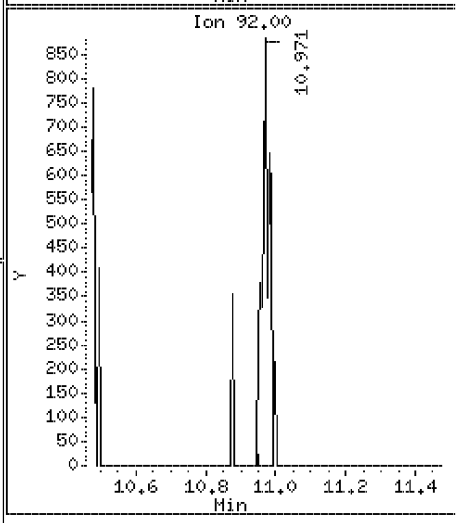
91 N-Butylbenzene

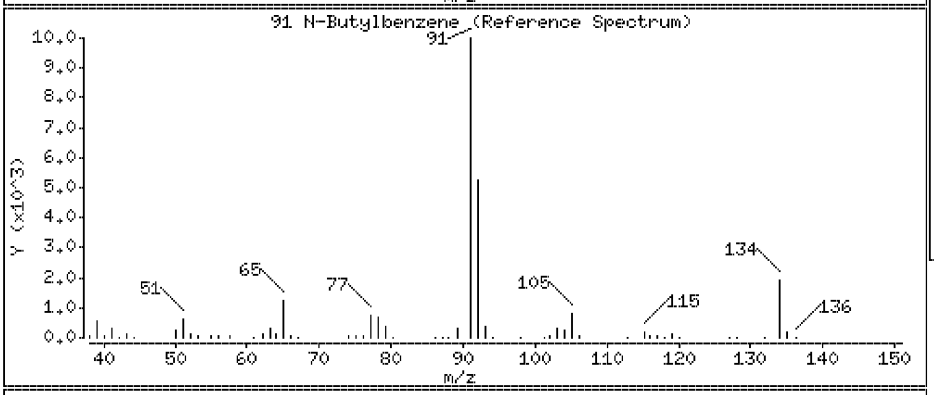
Concentration: 0.0773 ppbv

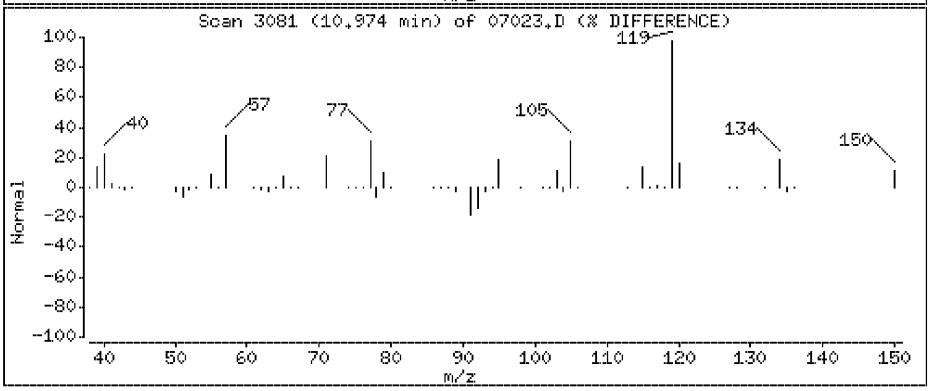












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07023.D

Date : 11-MAR-2017 21:54

Client ID:

Instrument: 10airD.i

Sample Info:

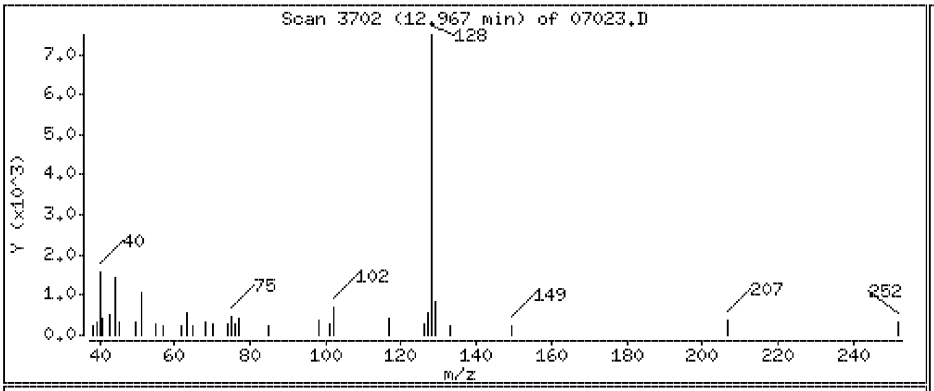
Operator: DR1

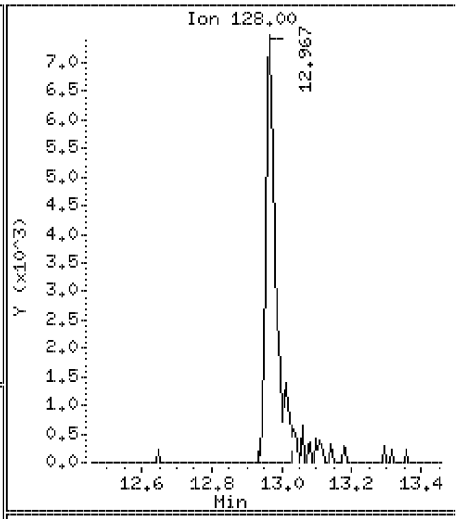
Column phase: J&W DB-5

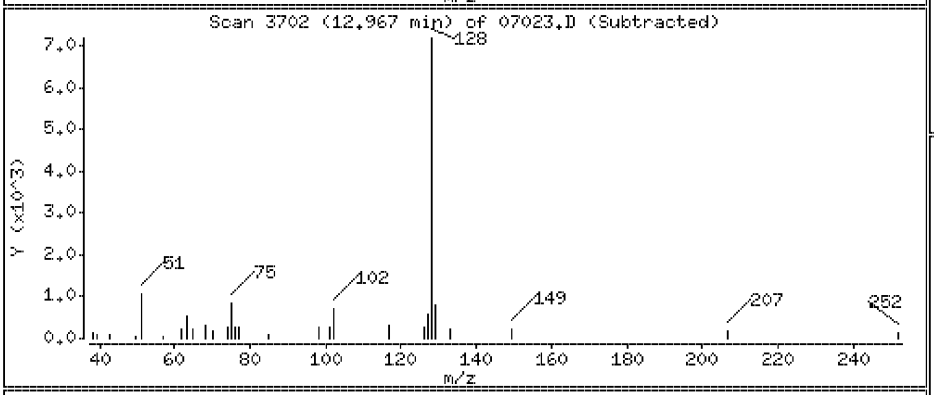
Column diameter: 0.32

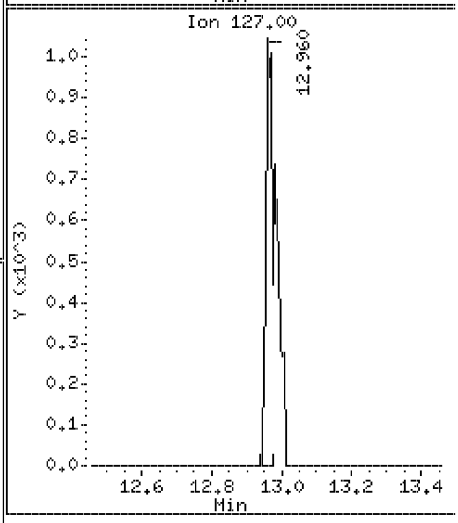
94 Naphthalene

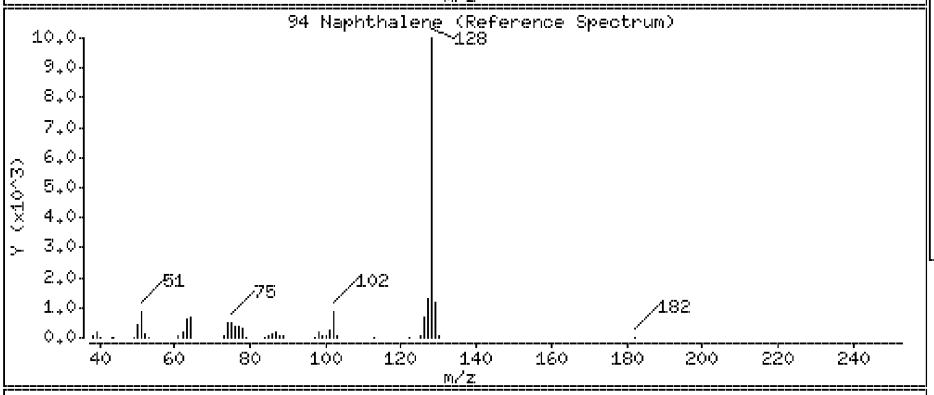
Concentration: 1.12 ppbv

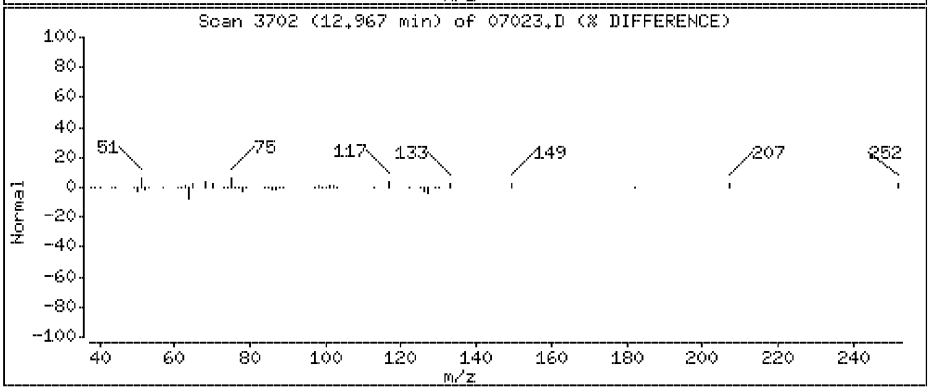






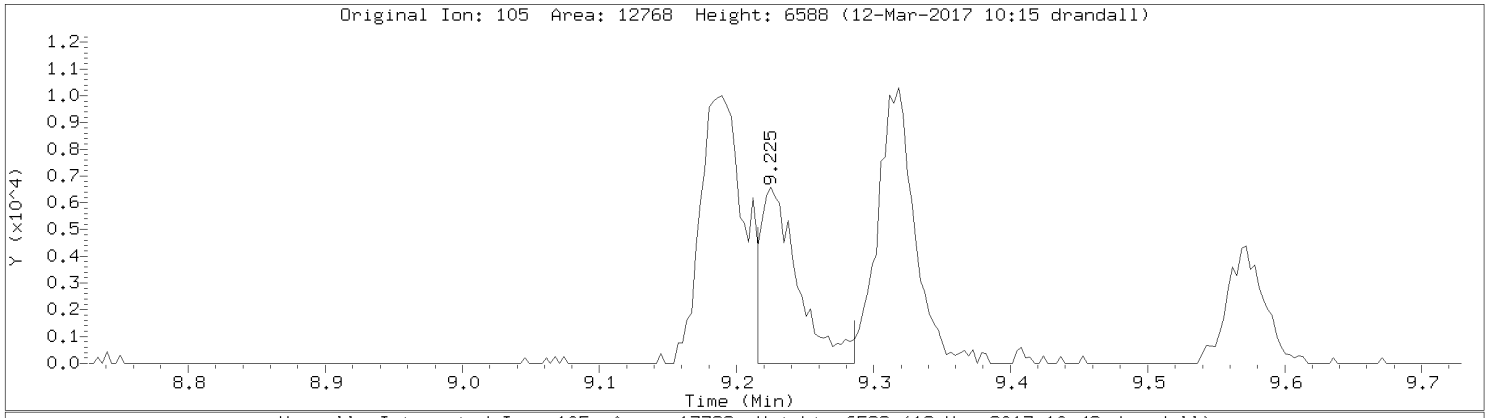


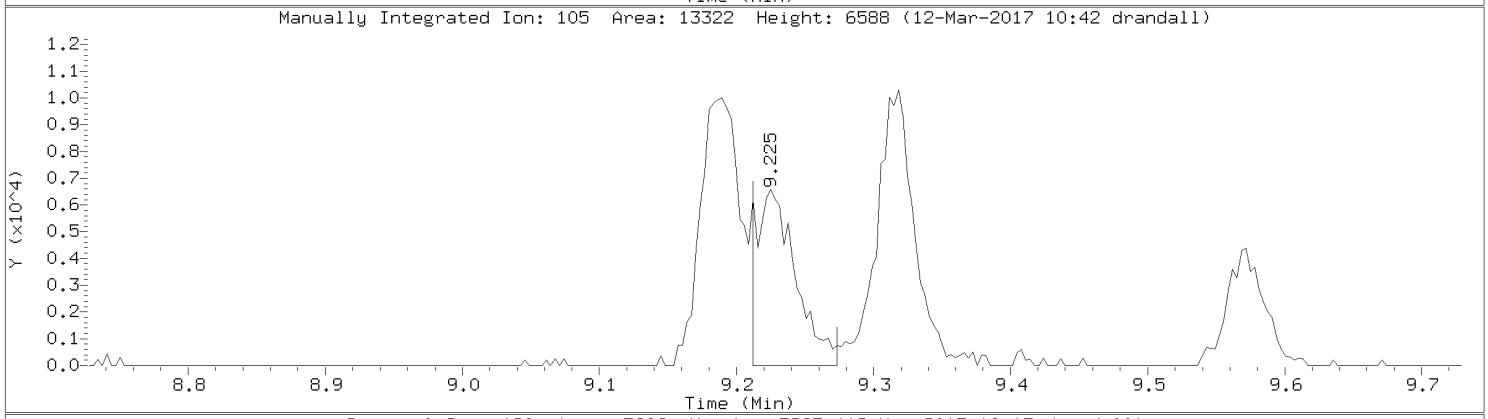


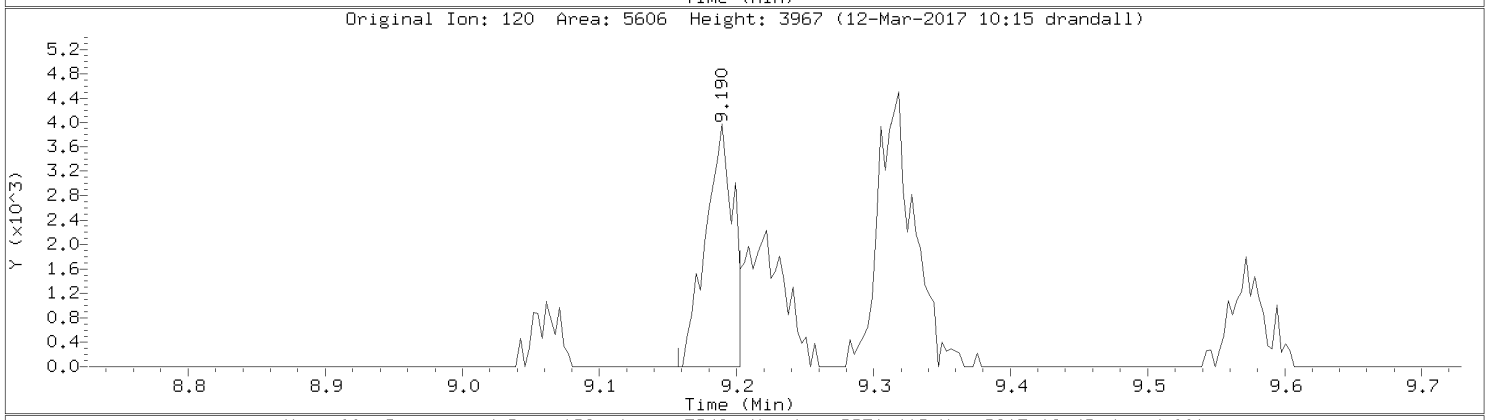


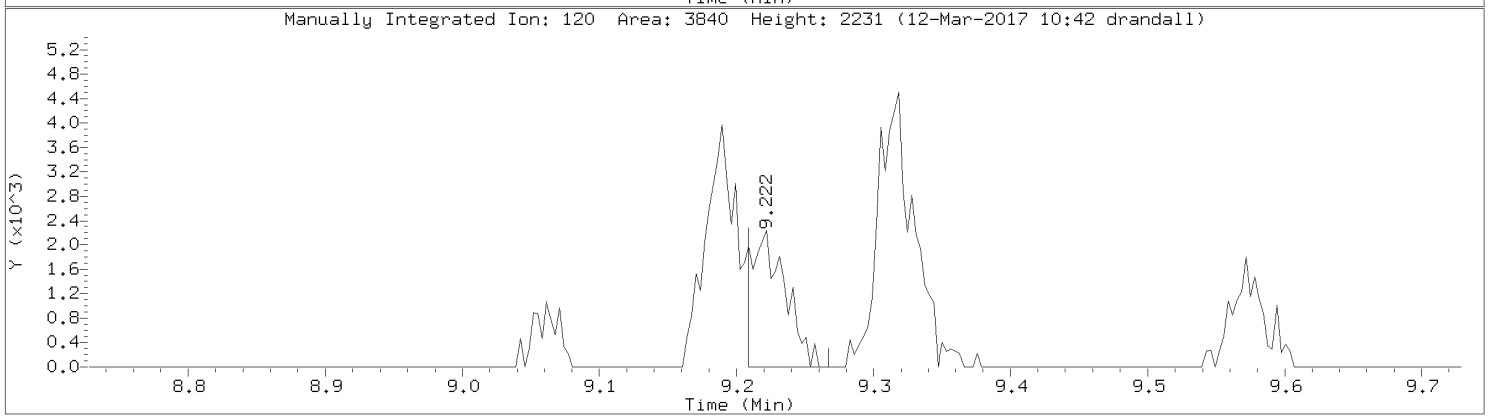
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07023.d
Injection Date: 11-MAR-2017 21:54
Instrument: 10airD.i
Lab Sample ID: 10380372015

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

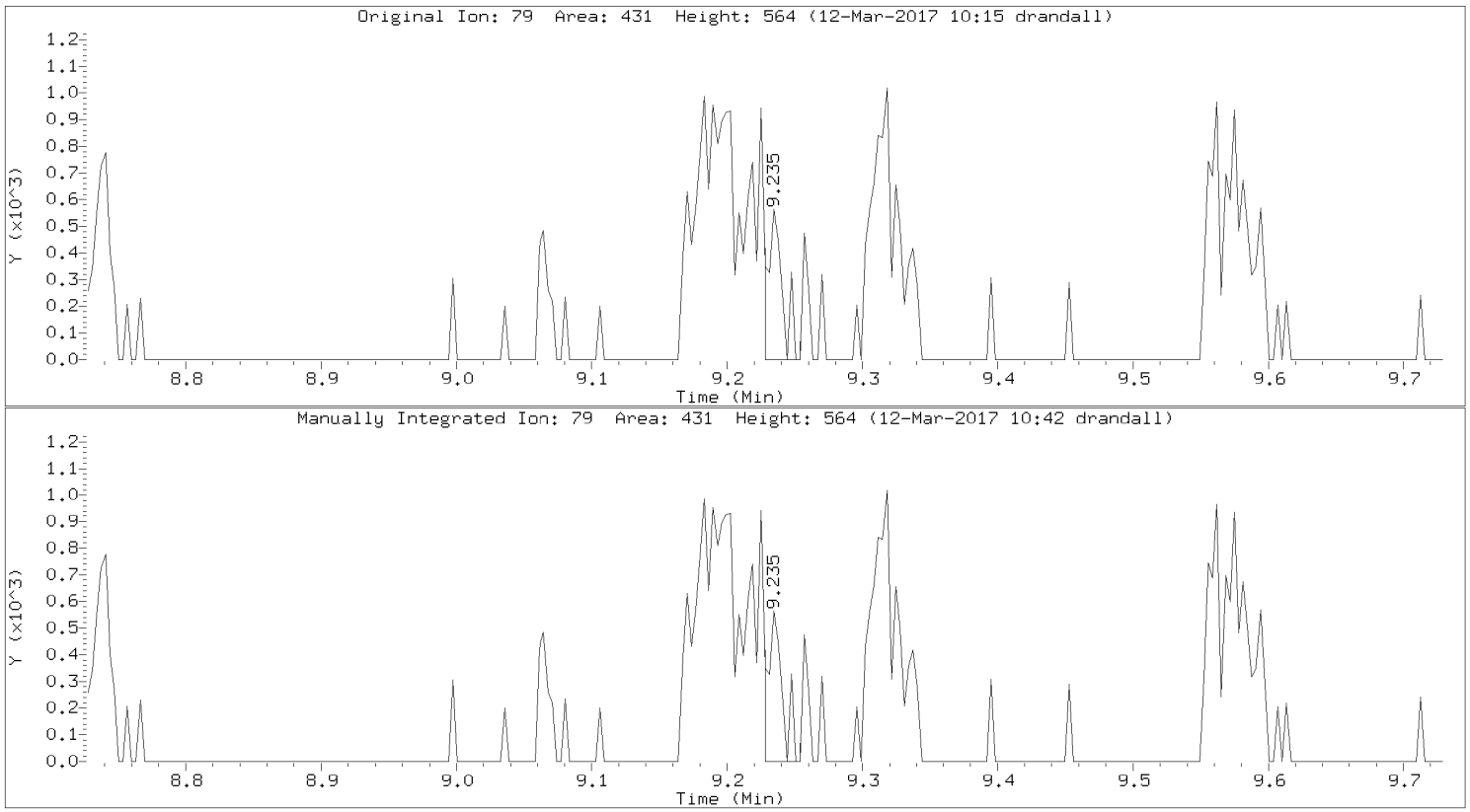






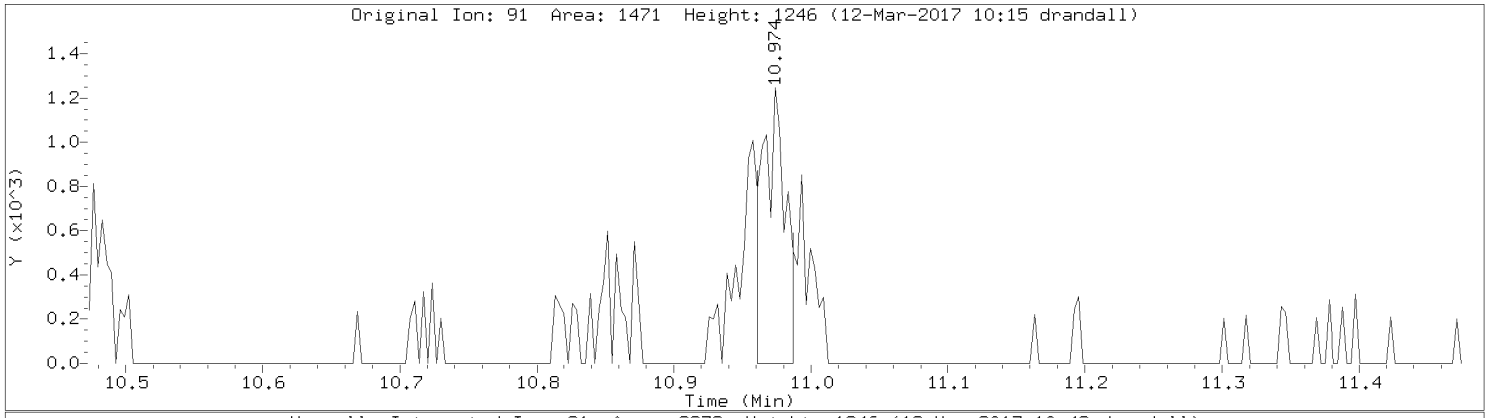


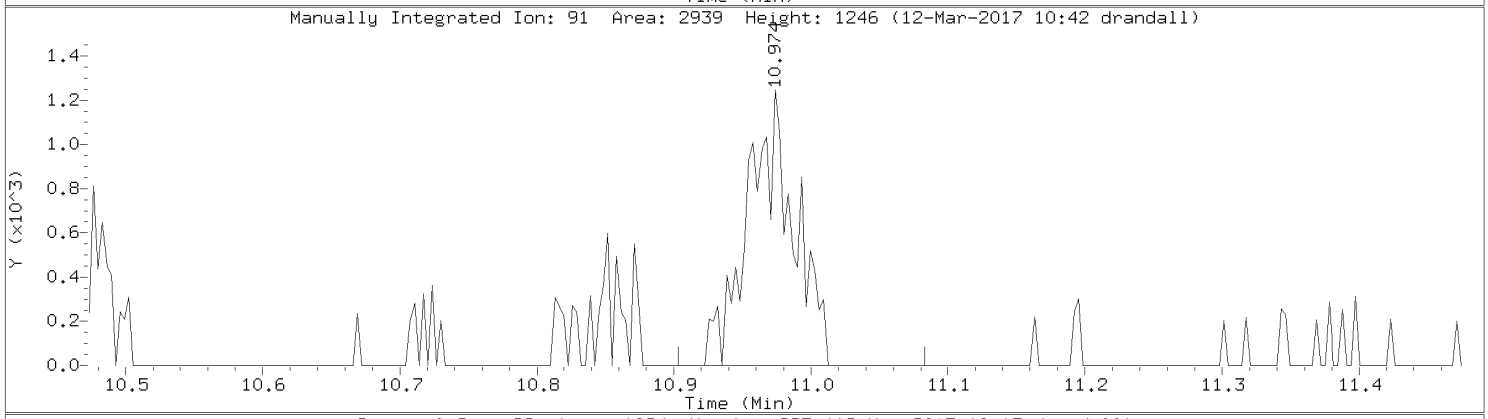
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07023.d
Injection Date: 11-MAR-2017 21:54
Instrument: 10airD.i
Lab Sample ID: 10380372015

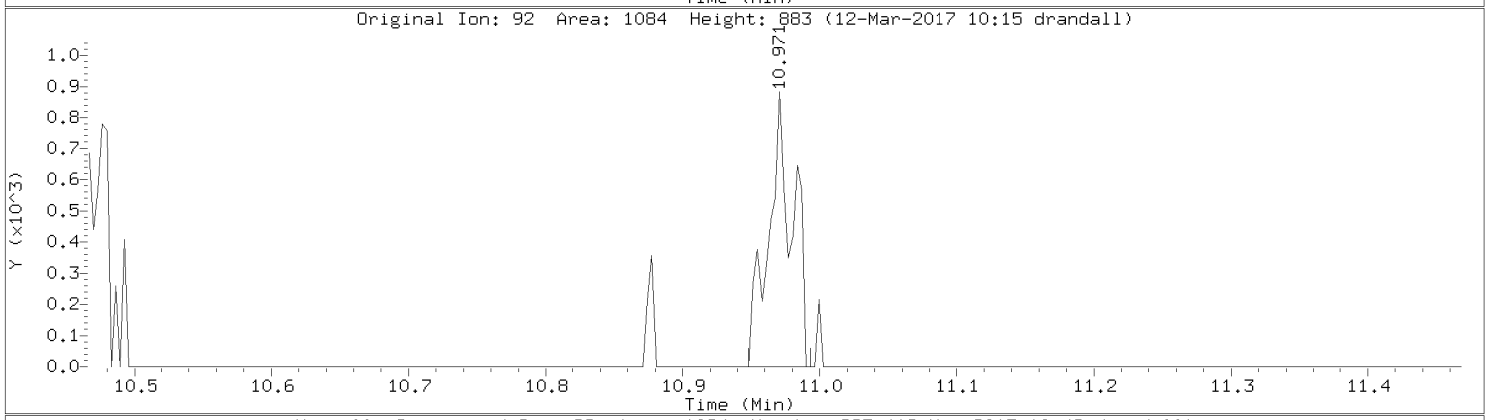


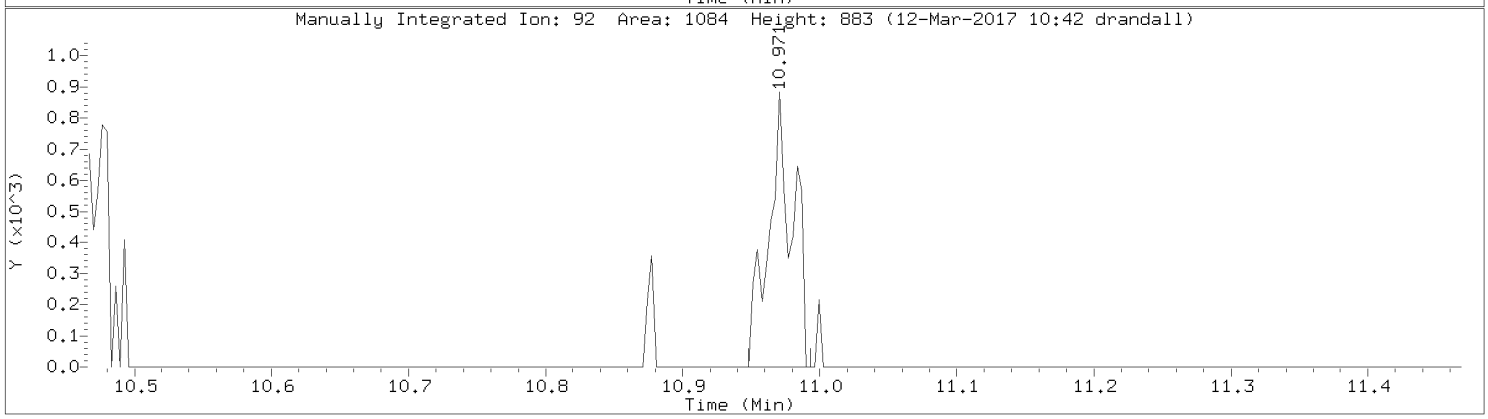
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07023.d
Injection Date: 11-MAR-2017 21:54
Instrument: 10airD.i
Lab Sample ID: 10380372015

Compound: N-Butylbenzene
CAS Number: 104-51-8









Data File: \\192.168.10.12\chem\10airD.i\031217.b\07112.d
Report Date: 13-Mar-2017 07:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031217.b\07112.d
Lab Smp Id: 10380372015
Inj Date : 12-MAR-2017 15:44
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Meth Date : 13-Mar-2017 07:39 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 12
Dil Factor: 45.02000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	45.020	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	25 Methylene chloride	49	2.861	2.871	(0.675)	41492	1.10766	49.9
$	32 Hexane-d14(S)	66	3.263	3.272	(0.770)	1293768	8.61408	8.61
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	4.238	4.251	(1.000)	2829098	10.0000	
	51 Trichloroethene	130	Compound Not Detected.					
$	59 Toluene-d8 (S)	98	5.557	5.566	(1.311)	2599695	9.17061	9.17
	66 Tetrachloroethene	166	6.394	6.407	(0.910)	710	0.01680	0.756(aQ)
*	67 Chlorobenzene - d5	117	7.023	7.033	(1.000)	1912229	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	10.194	10.200	(1.451)	1018412	8.69250	8.69

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07112.d
Report Date: 13-Mar-2017 07:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07112.d
Lab Smp Id: 10380372015
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 12-MAR-2017
Calibration Time: 10:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

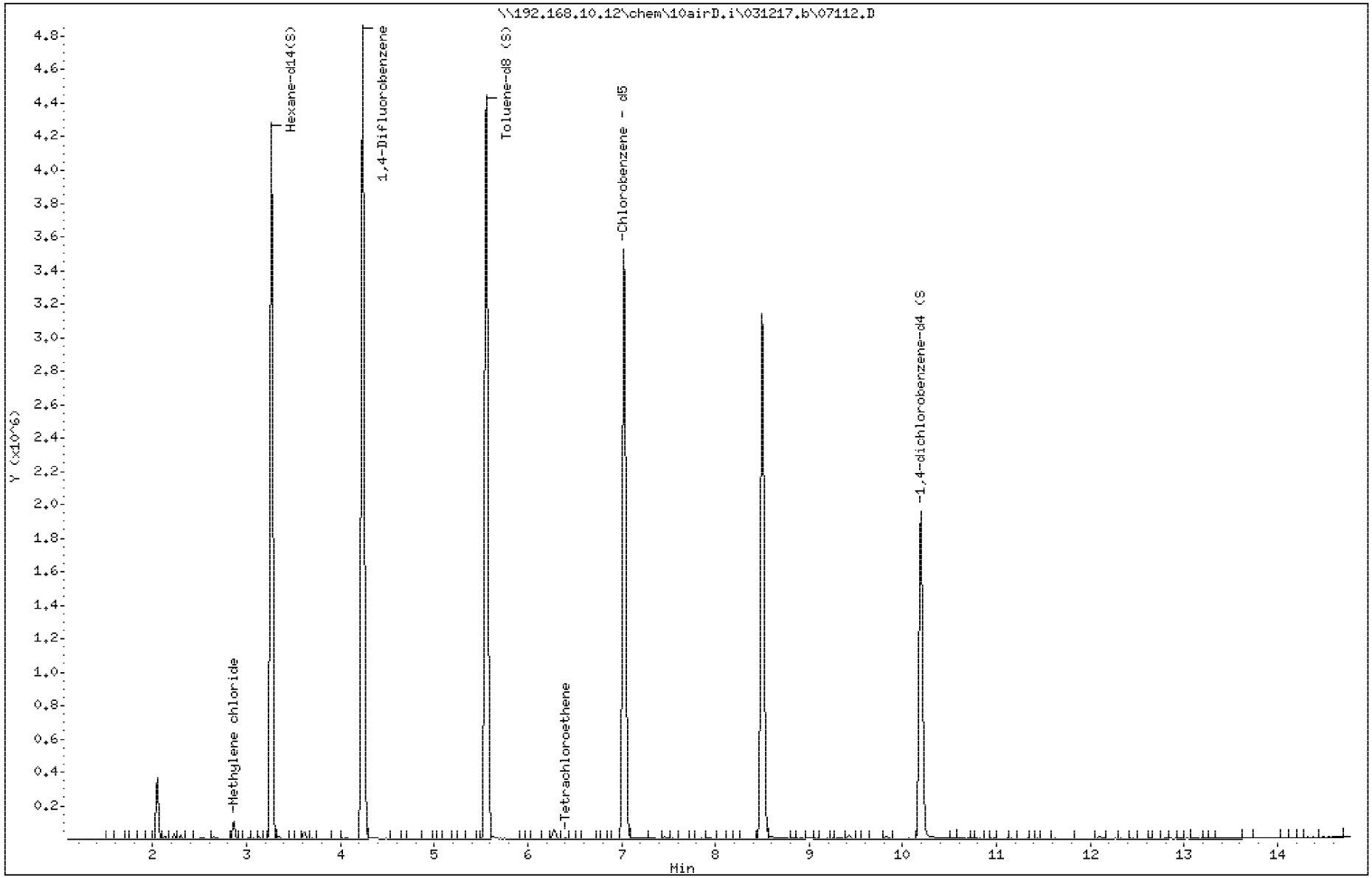
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	2829098	-25.31
67 Chlorobenzene - d	3280875	1968525	4593225	1912229	-41.72 <-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.30
67 Chlorobenzene - d	7.03	6.70	7.36	7.02	-0.13

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07112.D
Date : 12-MAR-2017 15:44
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07112.D

Date : 12-MAR-2017 15:44

Client ID:

Instrument: 10airD.i

Sample Info:

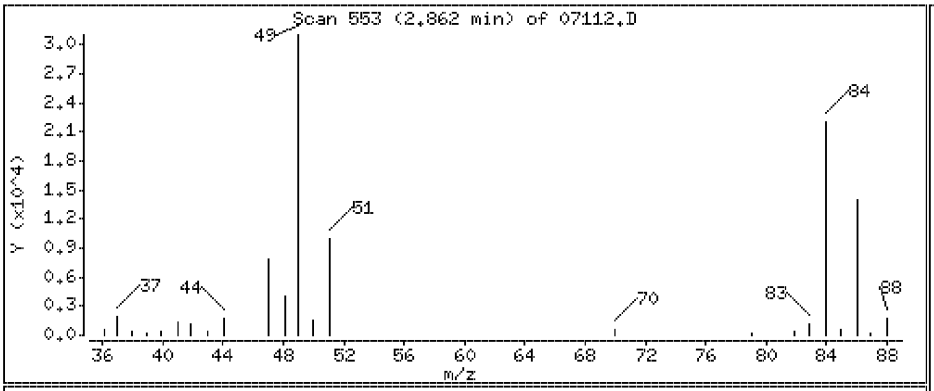
Operator: EMC

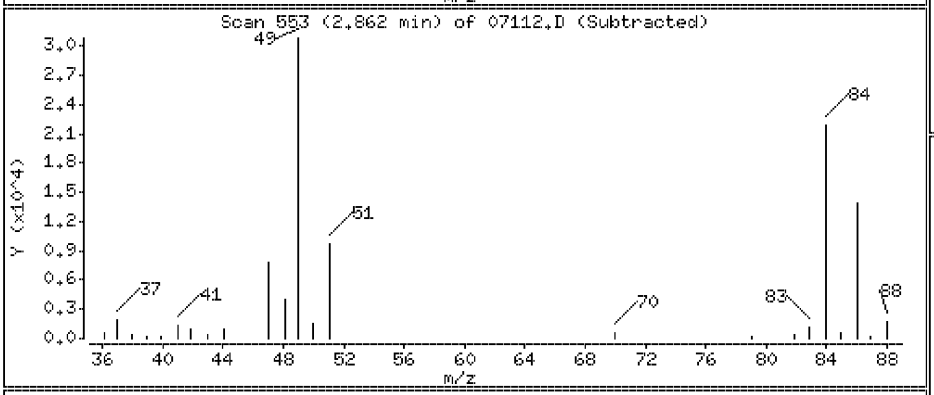
Column phase: J&W DB-5

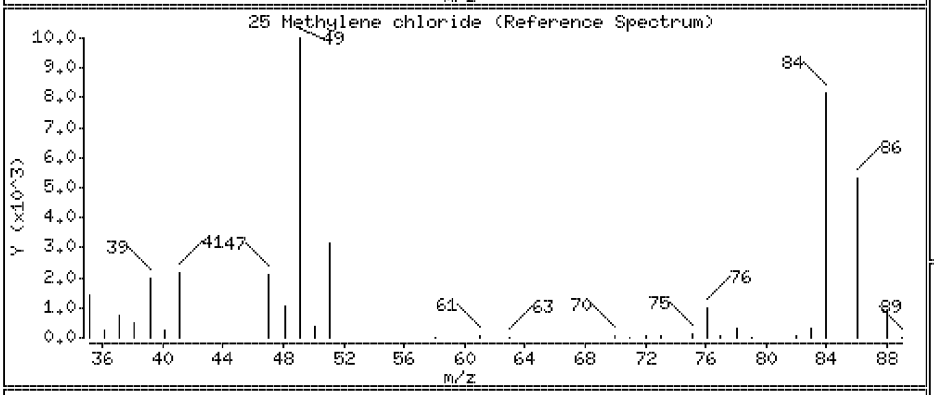
Column diameter: 0.32

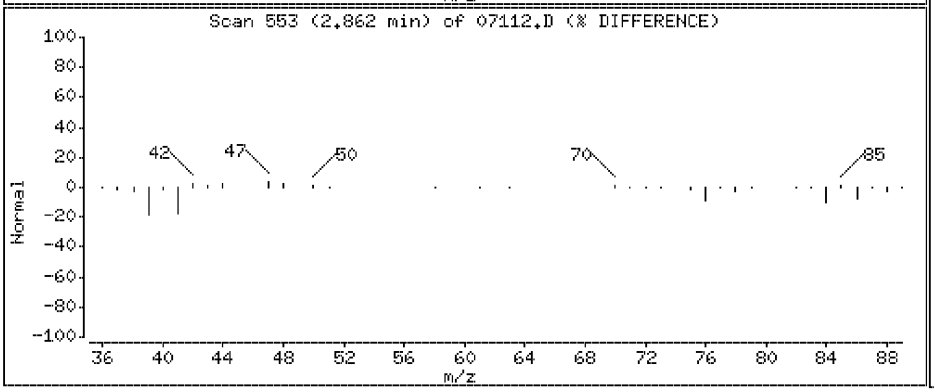
25 Methylene chloride

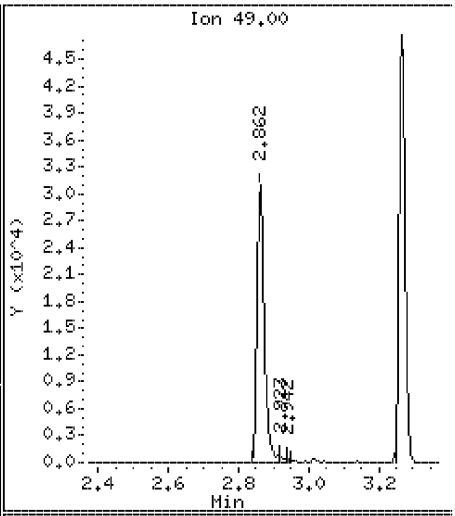
Concentration: 49.9 ppbv

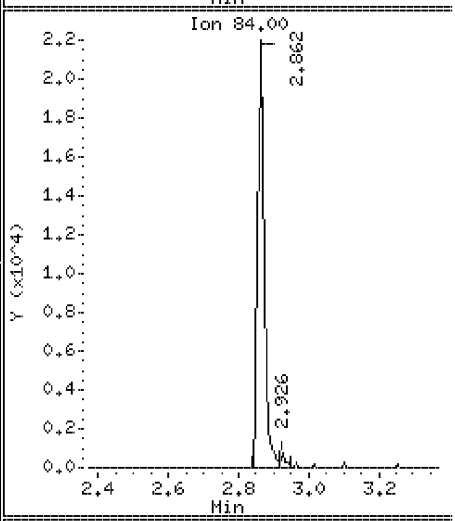


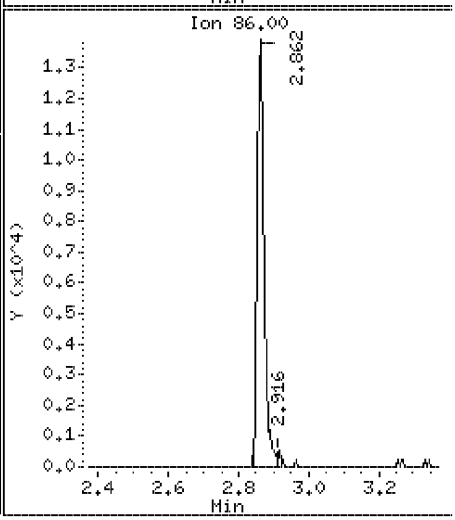












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07112.D

Date : 12-MAR-2017 15:44

Client ID:

Instrument: 10airD.i

Sample Info:

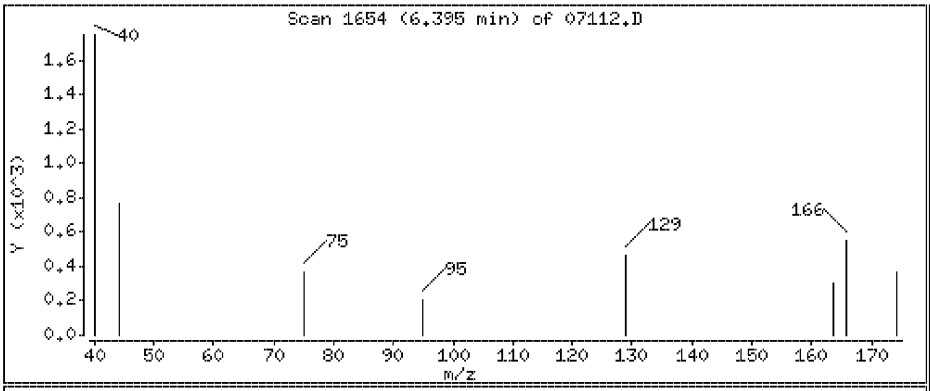
Operator: EMC

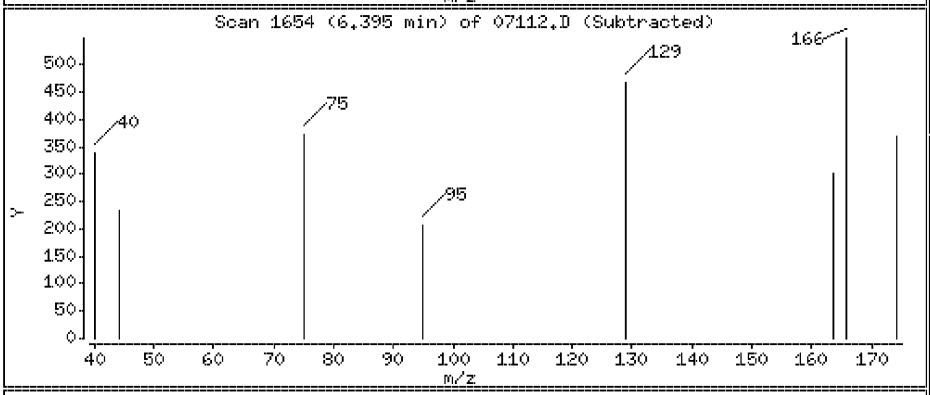
Column phase: J&W DB-5

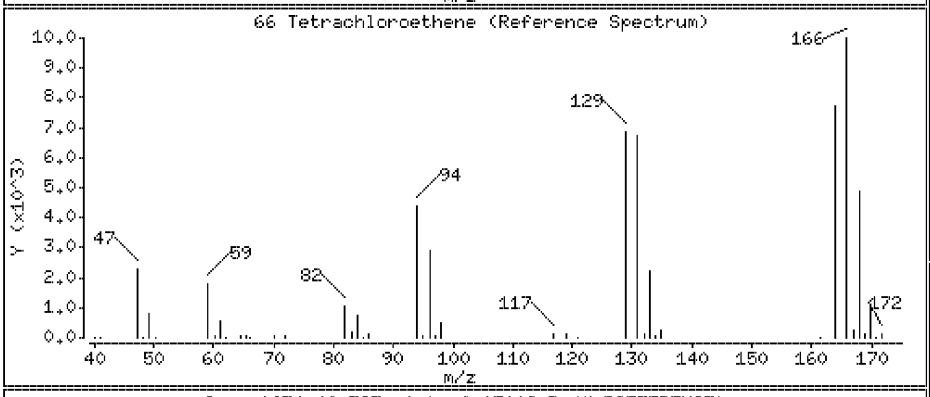
Column diameter: 0.32

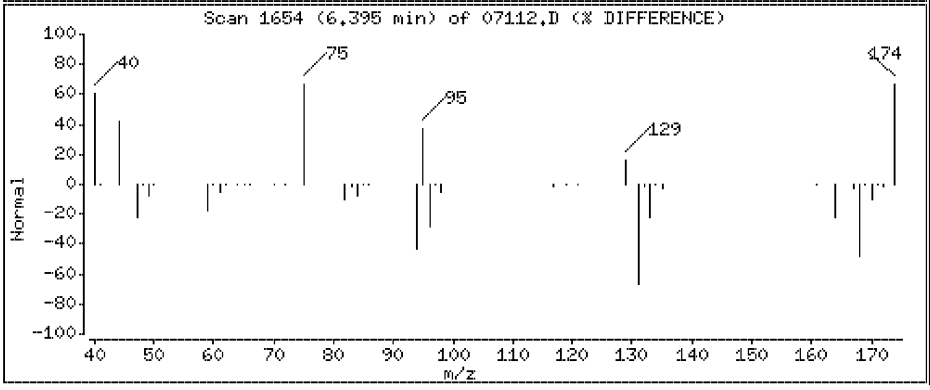
66 Tetrachloroethene

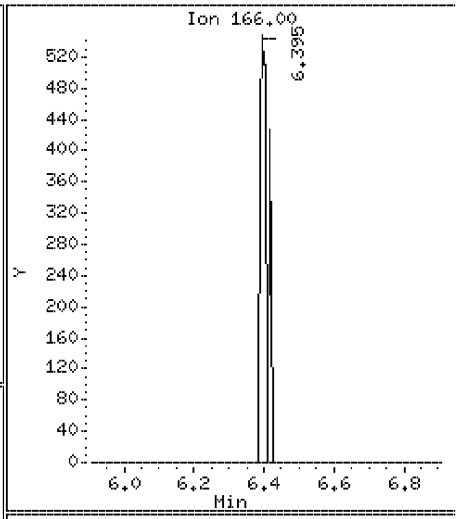
Concentration: 0.756 ppbv

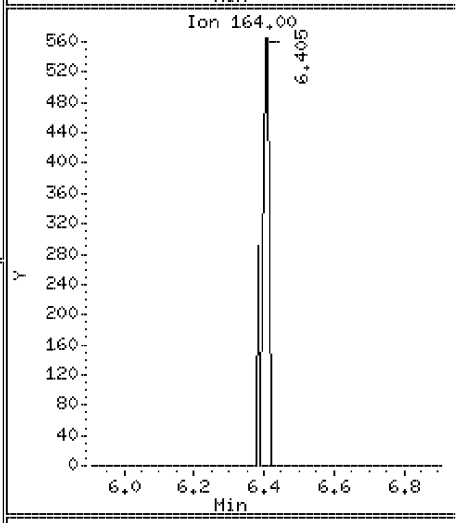


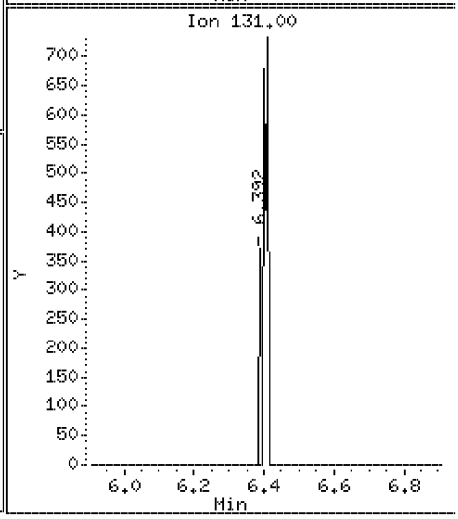












Data File: \\192.168.10.12\chem\10airD.i\031217.b/07112.d
Injection Date: 12-MAR-2017 15:44
Instrument: 10airD.i
Lab Sample ID: 10380372015
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_5_20170226 **Lab ID: 10380372015** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**22.2**	ug/m3	4.2	0.40	1.68		03/11/17 21:54	67-63-0	
Styrene	**0.32U**	ug/m3	1.5	0.32	1.68		03/11/17 21:54	100-42-5	
1,1,2,2-Tetrachloroethane	**0.55U**	ug/m3	1.2	0.55	1.68		03/11/17 21:54	79-34-5	
Tetrachloroethene	**0.47U**	ug/m3	1.2	0.47	1.68		03/11/17 21:54	127-18-4	
Toluene	**10.4**	ug/m3	1.3	0.26	1.68		03/11/17 21:54	108-88-3	
1,2,4-Trichlorobenzene	**1.5U**	ug/m3	6.3	1.5	1.68		03/11/17 21:54	120-82-1	
1,1,1-Trichloroethane	**0.41U**	ug/m3	1.9	0.41	1.68		03/11/17 21:54	71-55-6	
1,1,2-Trichloroethane	**0.41U**	ug/m3	0.92	0.41	1.68		03/11/17 21:54	79-00-5	
Trichloroethene	**0.46U**	ug/m3	0.92	0.46	1.68		03/11/17 21:54	79-01-6	
Trichlorofluoromethane	**2.8**	ug/m3	1.9	0.22	1.68		03/11/17 21:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.51U**	ug/m3	2.7	0.51	1.68		03/11/17 21:54	76-13-1	
1,2,4-Trimethylbenzene	**4.4**	ug/m3	1.7	0.21	1.68		03/11/17 21:54	95-63-6	
1,3,5-Trimethylbenzene	**2.0**	ug/m3	1.7	0.31	1.68		03/11/17 21:54	108-67-8	
Vinyl chloride	**0.33U**	ug/m3	0.44	0.33	1.68		03/11/17 21:54	75-01-4	
m&p-Xylene	**12.6**	ug/m3	3.0	1.3	1.68		03/11/17 21:54	179601-23-1	
o-Xylene	**3.9**	ug/m3	1.5	0.59	1.68		03/11/17 21:54	95-47-6	

Sample: LIJ-VP-7_10_20170226 **Lab ID: 10380372016** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.0**	ug/m3	10.1	1.4	1.68		03/11/17 22:22	67-64-1	
Allyl chloride	**0.38U**	ug/m3	2.7	0.38	1.68		03/11/17 22:22	107-05-1	
Benzene	**0.49J**	ug/m3	0.55	0.20	1.68		03/11/17 22:22	71-43-2	
Bromodichloromethane	**0.33U**	ug/m3	2.3	0.33	1.68		03/11/17 22:22	75-27-4	
Bromoform	**1.5U**	ug/m3	8.8	1.5	1.68		03/11/17 22:22	75-25-2	
Bromomethane	**0.52U**	ug/m3	1.3	0.52	1.68		03/11/17 22:22	74-83-9	
1,3-Butadiene	**0.30U**	ug/m3	0.76	0.30	1.68		03/11/17 22:22	106-99-0	
2-Butanone (MEK)	**2.3J**	ug/m3	5.0	0.38	1.68		03/11/17 22:22	78-93-3	
Carbon disulfide	**0.17U**	ug/m3	1.1	0.17	1.68		03/11/17 22:22	75-15-0	
Carbon tetrachloride	**0.32U**	ug/m3	1.1	0.32	1.68		03/11/17 22:22	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.68		03/11/17 22:22	108-90-7	
Chlorodifluoromethane	**35.3**	ug/m3	1.2	0.46	1.68		03/11/17 22:22	75-45-6	
Chloroethane	**0.33U**	ug/m3	0.91	0.33	1.68		03/11/17 22:22	75-00-3	
Chloroform	**0.32U**	ug/m3	0.83	0.32	1.68		03/11/17 22:22	67-66-3	
Chloromethane	**1.0**	ug/m3	0.71	0.18	1.68		03/11/17 22:22	74-87-3	
Chloropentafluoroethane	**5.4U**	ug/m3	5.4	5.4	1.68		03/11/17 22:22	76-15-3	CL
Cyclohexane	**0.81J**	ug/m3	1.2	0.53	1.68		03/11/17 22:22	110-82-7	
1,2-Dibromo-3-chloropropane	**8.2U**	ug/m3	8.2	8.2	1.68		03/11/17 22:22	96-12-8	
Dibromochloromethane	**1.4U**	ug/m3	2.9	1.4	1.68		03/11/17 22:22	124-48-1	
1,2-Dibromoethane (EDB)	**1.3U**	ug/m3	2.6	1.3	1.68		03/11/17 22:22	106-93-4	
1,2-Dichlorobenzene	**0.86U**	ug/m3	2.0	0.86	1.68		03/11/17 22:22	95-50-1	
1,3-Dichlorobenzene	**0.89U**	ug/m3	2.0	0.89	1.68		03/11/17 22:22	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_10_20170226 **Lab ID: 10380372016** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.84U**	ug/m3	2.0	0.84	1.68		03/11/17 22:22	106-46-7	
Dichlorodifluoromethane	**3.1**	ug/m3	1.7	0.81	1.68		03/11/17 22:22	75-71-8	
1,1-Dichloroethane	**0.26U**	ug/m3	1.4	0.26	1.68		03/11/17 22:22	75-34-3	
1,2-Dichloroethane	**0.34U**	ug/m3	0.69	0.34	1.68		03/11/17 22:22	107-06-2	
1,1-Dichloroethene	**0.40U**	ug/m3	1.4	0.40	1.68		03/11/17 22:22	75-35-4	
cis-1,2-Dichloroethene	**0.41U**	ug/m3	1.4	0.41	1.68		03/11/17 22:22	156-59-2	
trans-1,2-Dichloroethene	**0.65U**	ug/m3	1.4	0.65	1.68		03/11/17 22:22	156-60-5	
1,2-Dichloropropane	**0.45U**	ug/m3	1.6	0.45	1.68		03/11/17 22:22	78-87-5	
cis-1,3-Dichloropropene	**0.62U**	ug/m3	1.5	0.62	1.68		03/11/17 22:22	10061-01-5	
trans-1,3-Dichloropropene	**0.44U**	ug/m3	1.5	0.44	1.68		03/11/17 22:22	10061-02-6	
Dichlorotetrafluoroethane	**0.52U**	ug/m3	2.4	0.52	1.68		03/11/17 22:22	76-14-2	
Freon 123	**5.3U**	ug/m3	5.3	5.3	1.68		03/11/17 22:22	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.59U**	ug/m3	6.1	0.59	1.68		03/11/17 22:22	123-91-1	
Ethylbenzene	**3.3**	ug/m3	1.5	0.71	1.68		03/11/17 22:22	100-41-4	
4-Ethyltoluene	**0.32U**	ug/m3	1.7	0.32	1.68		03/11/17 22:22	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.6	1.1	1.68		03/11/17 22:22	87-68-3	
n-Hexane	**1.7**	ug/m3	1.2	0.60	1.68		03/11/17 22:22	110-54-3	
2-Hexanone	**0.69U**	ug/m3	7.0	0.69	1.68		03/11/17 22:22	591-78-6	
Isopropylbenzene (Cumene)	**0.23U**	ug/m3	4.2	0.23	1.68		03/11/17 22:22	98-82-8	
Methyl acetate	**2.6U**	ug/m3	2.6	2.6	1.68		03/11/17 22:22	79-20-9	
Methylcyclohexane	**0.41U**	ug/m3	1.4	0.41	1.68		03/11/17 22:22	108-87-2	
Methylene Chloride	**14.0**	ug/m3	5.9	0.91	1.68		03/11/17 22:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.36U**	ug/m3	7.0	0.36	1.68		03/11/17 22:22	108-10-1	
Methyl-tert-butyl ether	**0.51U**	ug/m3	6.2	0.51	1.68		03/11/17 22:22	1634-04-4	
2-Propanol	**39.6**	ug/m3	4.2	0.40	1.68		03/11/17 22:22	67-63-0	
Styrene	**0.32U**	ug/m3	1.5	0.32	1.68		03/11/17 22:22	100-42-5	
1,1,2,2-Tetrachloroethane	**0.55U**	ug/m3	1.2	0.55	1.68		03/11/17 22:22	79-34-5	
Tetrachloroethene	**1.1J**	ug/m3	1.2	0.47	1.68		03/11/17 22:22	127-18-4	
Toluene	**2.1**	ug/m3	1.3	0.26	1.68		03/11/17 22:22	108-88-3	
1,2,4-Trichlorobenzene	**1.5U**	ug/m3	6.3	1.5	1.68		03/11/17 22:22	120-82-1	
1,1,1-Trichloroethane	**0.41U**	ug/m3	1.9	0.41	1.68		03/11/17 22:22	71-55-6	
1,1,2-Trichloroethane	**0.41U**	ug/m3	0.92	0.41	1.68		03/11/17 22:22	79-00-5	
Trichloroethene	**0.46U**	ug/m3	0.92	0.46	1.68		03/11/17 22:22	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.9	0.22	1.68		03/11/17 22:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.51U**	ug/m3	2.7	0.51	1.68		03/11/17 22:22	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.21	1.68		03/11/17 22:22	95-63-6	
1,3,5-Trimethylbenzene	**0.79J**	ug/m3	1.7	0.31	1.68		03/11/17 22:22	108-67-8	
Vinyl chloride	**0.33U**	ug/m3	0.44	0.33	1.68		03/11/17 22:22	75-01-4	
m&p-Xylene	**11.2**	ug/m3	3.0	1.3	1.68		03/11/17 22:22	179601-23-1	
o-Xylene	**3.0**	ug/m3	1.5	0.59	1.68		03/11/17 22:22	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.d
Report Date: 12-Mar-2017 10:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07024.d
Lab Smp Id: 10380372016
Inj Date : 11-MAR-2017 22:22
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 24
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.130	2.155	(0.502)	44405	5.83709	9.81(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.155	2.165	(0.508)	25527	0.36847	0.619	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	2.226	2.235	(0.524)	9533	0.29341	0.493	
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.505	2.521	(0.590)	49754	10.2845	17.3	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	2.544	2.592	(0.599)	34351	1.13787	1.91(QH)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.608	2.614	(0.614)	11673	0.16106	0.271	
17	Acrolein	56	2.617	2.624	(0.617)	1236	0.55315	0.929(Q)	
18	Acetone	43	2.643	2.653	(0.623)	151961	3.21097	5.39(M)	
19	Isopropyl Alcohol	45	2.675	2.688	(0.630)	231305	9.42309	15.8(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.d
Report Date: 12-Mar-2017 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						(D)
	25 Methylene chloride	49	2.868	2.871	(0.676)	86220	2.36767	3.98	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.275	(0.770)	1542820	9.22265	9.22	
	33 Methyl Ethyl Ketone	72	3.346	3.359	(0.788)	4563	0.45545	0.765(Q)	
	34 n-Hexane	57	3.352	3.352	(0.790)	10131	0.27968	0.470(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	3.487	3.490	(0.822)	13409	0.23136	0.389(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.097	4.100	(0.965)	6183	0.08917	0.150	
	45 Carbon tetrachloride	117	Compound Not Detected.						
	44 Cyclohexane	56	4.119	4.126	(0.971)	4912	0.13721	0.231(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.244	4.247	(1.000)	3151082	10.0000		
	48 2,2,4-Trimethylpentane	57	4.370	4.376	(1.029)	8662	158.684	267(AQ)	
	49 Heptane	43	4.485	4.491	(1.057)	7563	0.13971	0.235(QM)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.563	5.563	(1.311)	3014537	9.54739	9.55	
	60 Toluene	91	5.627	5.631	(1.326)	29847	0.32041	0.538	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	5.907	5.887	(0.840)	4374	0.07850	0.132(Q)	
	63 n-Octane	43	6.057	6.051	(0.862)	9955	0.17182	0.289(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.401	6.404	(0.911)	4778	0.09257	0.156(H)	
*	67 Chlorobenzene - d5	117	7.030	7.030	(1.000)	2334805	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	45568	0.44481	0.747	
	70 m&p-Xylene	91	7.457	7.460	(1.061)	131312	1.50829	2.53	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.854	7.858	(1.117)	4866	0.09102	0.153	
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	7.925	7.928	(1.127)	34707	0.41094	0.690	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.d
Report Date: 12-Mar-2017 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	9.318	9.318	(1.325)	10971	0.09382	0.158	(H)
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.825	9.825	(1.398)	23401	0.18041	0.303	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.450)	1263820	8.83478	8.83	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.963	12.960	(1.844)	25079	1.02504	1.72	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.d
Report Date: 12-Mar-2017 10:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07024.d
Lab Smp Id: 10380372016
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

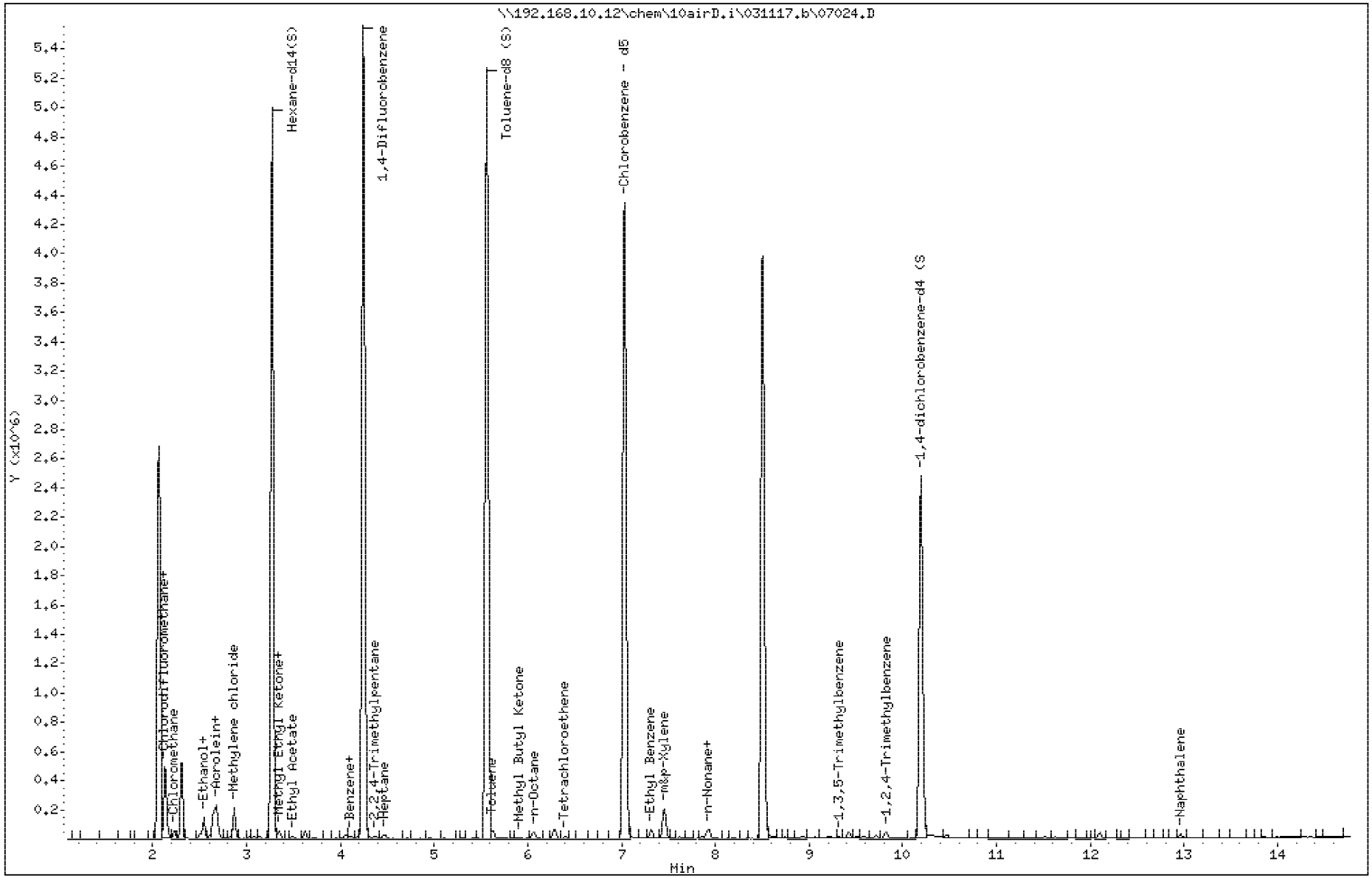
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3151082	-16.80
67 Chlorobenzene - d	3280875	1968525	4593225	2334805	-28.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.07
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D
Date : 11-MAR-2017 22:22
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

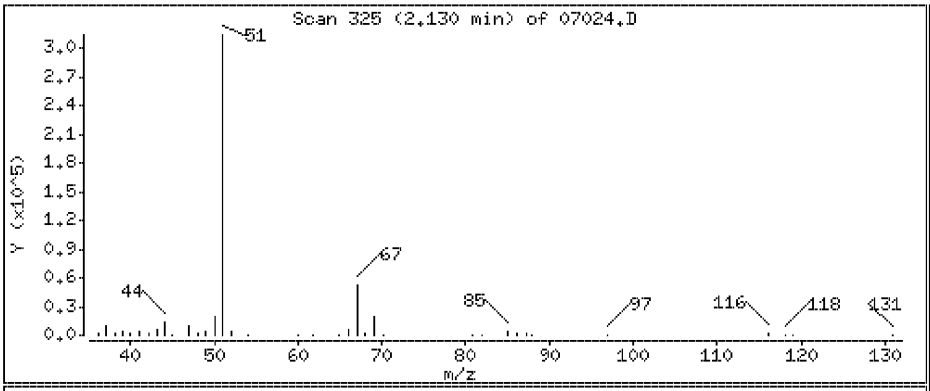
Operator: DR1

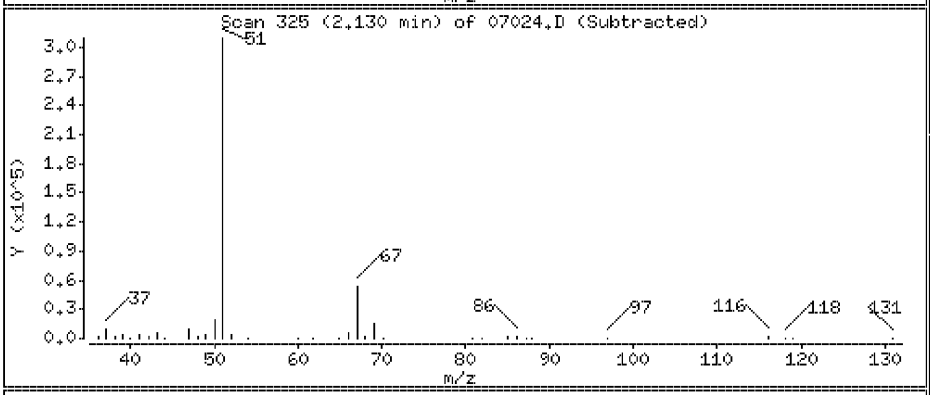
Column phase: J&W DB-5

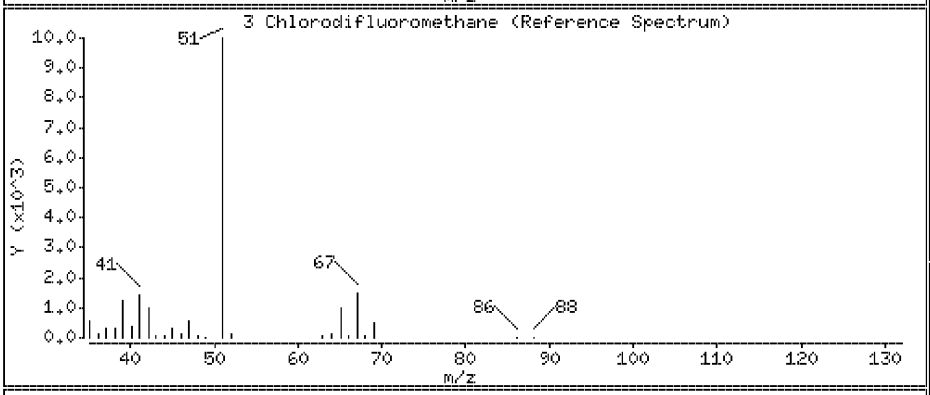
Column diameter: 0.32

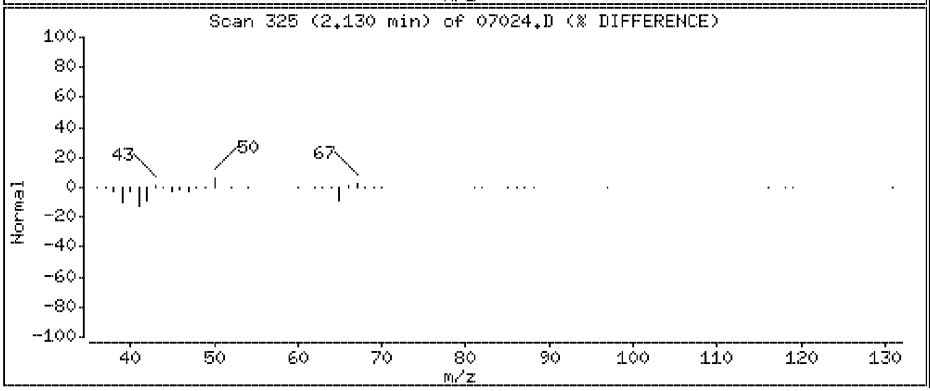
3 Chlorodifluoromethane

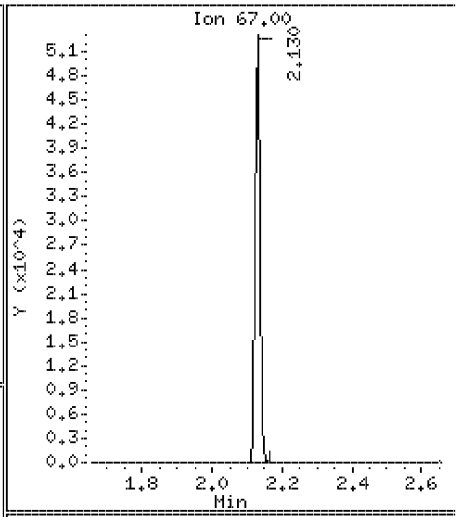
Concentration: 9.81 ppbv

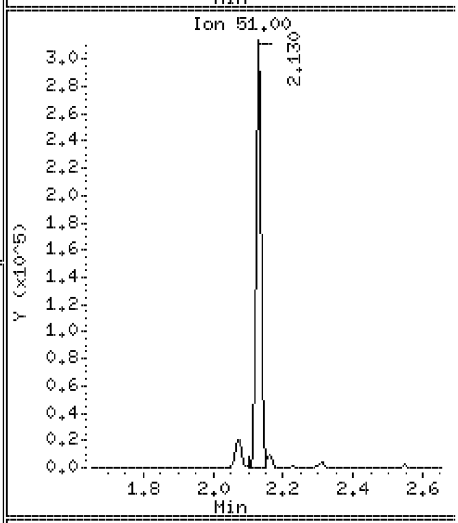


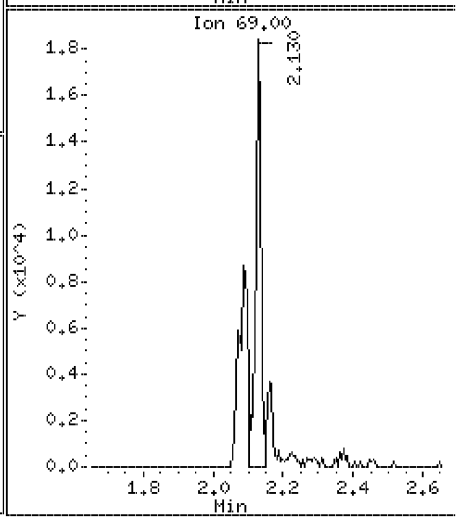












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

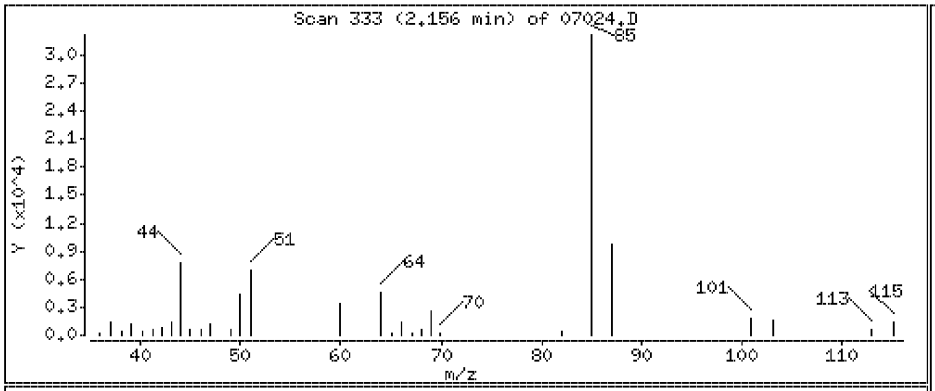
Operator: DR1

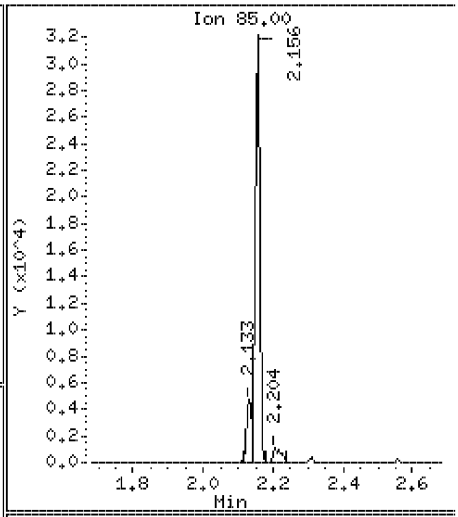
Column phase: J&W DB-5

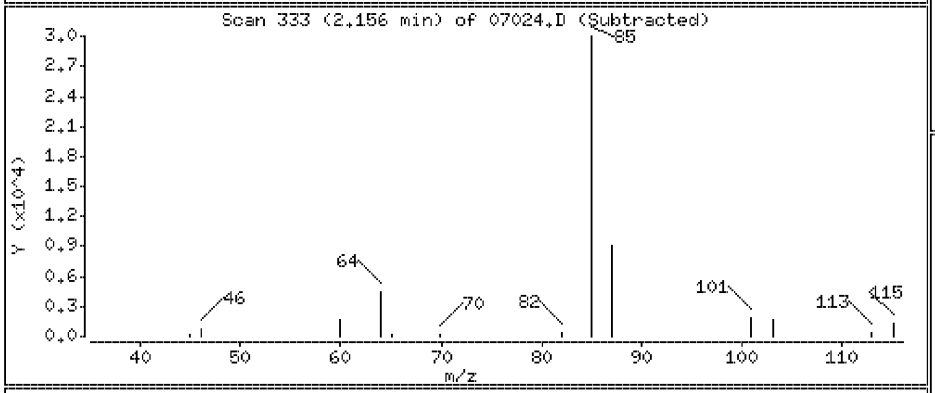
Column diameter: 0.32

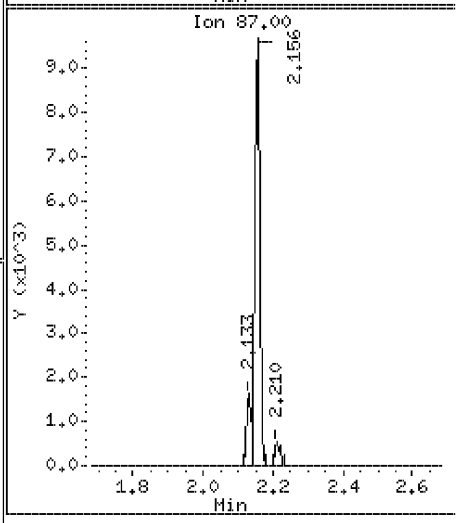
5 Dichlorodifluoromethane

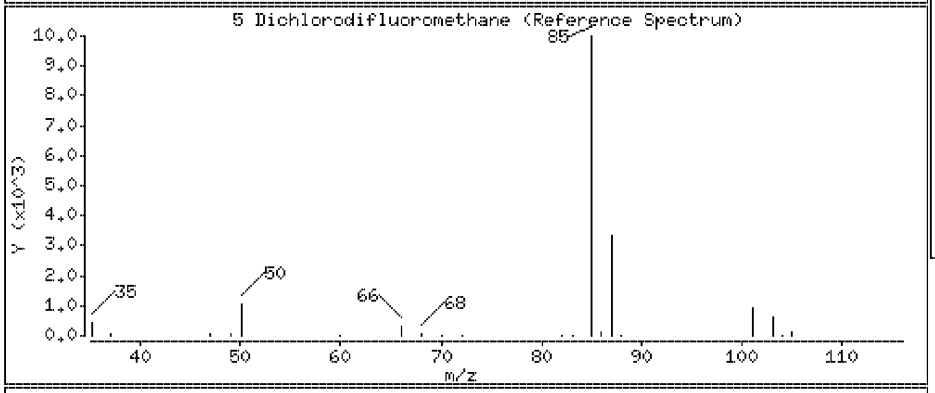
Concentration: 0.619 ppbv

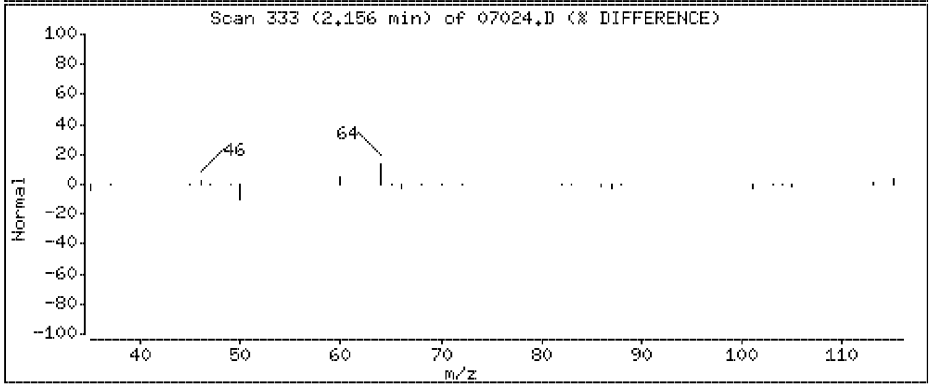












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

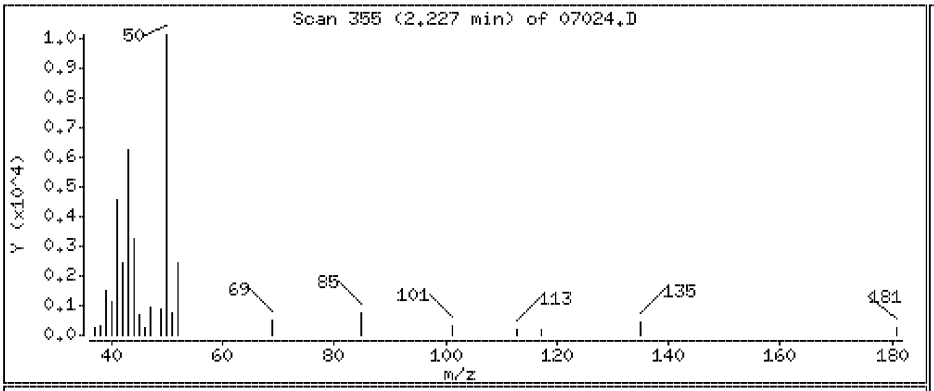
Operator: DR1

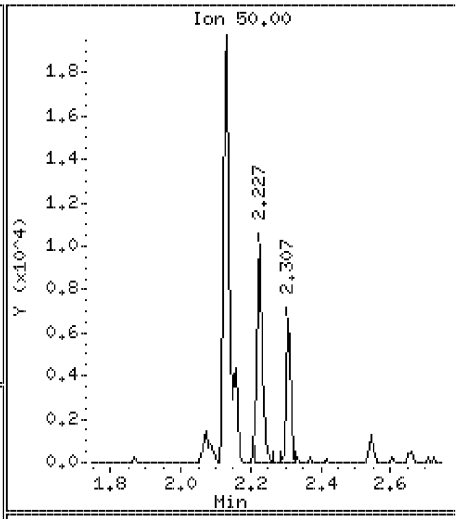
Column phase: J&W DB-5

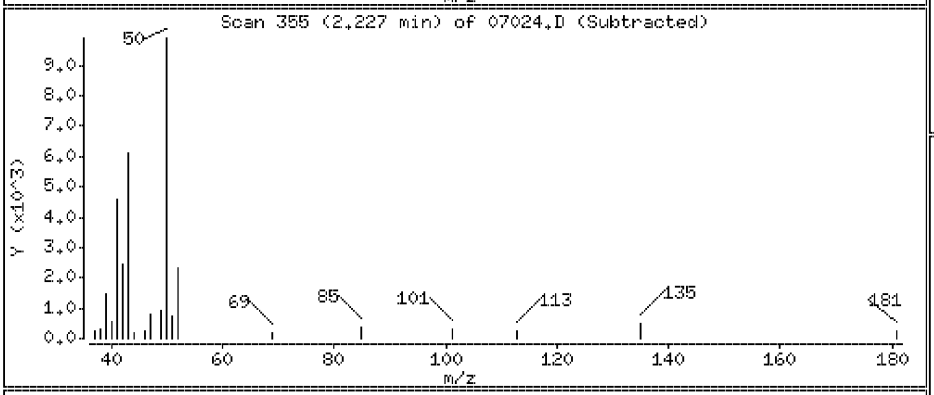
Column diameter: 0.32

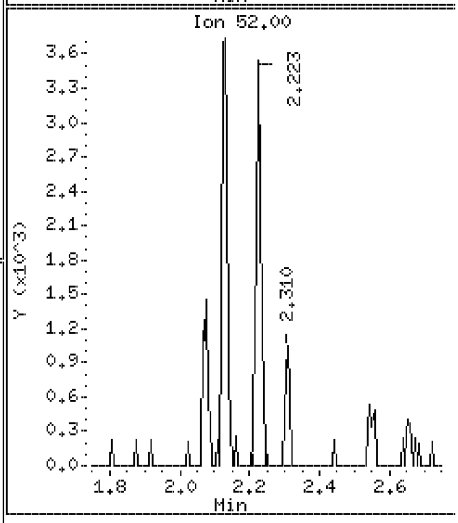
7 Chloromethane

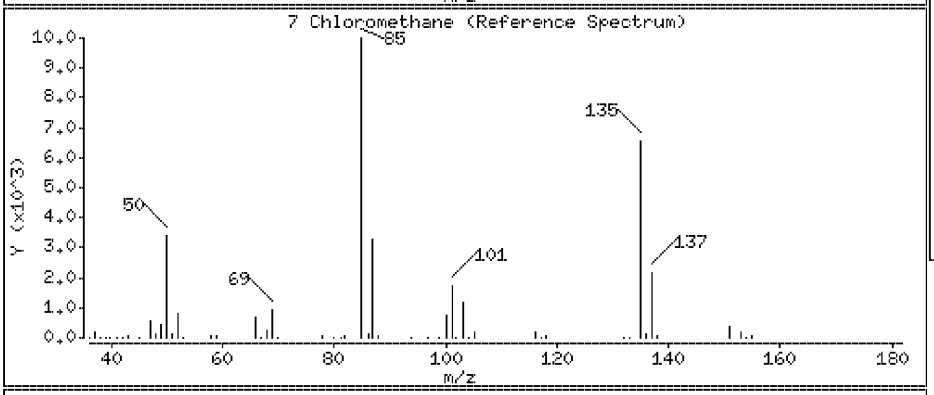
Concentration: 0.493 ppbv

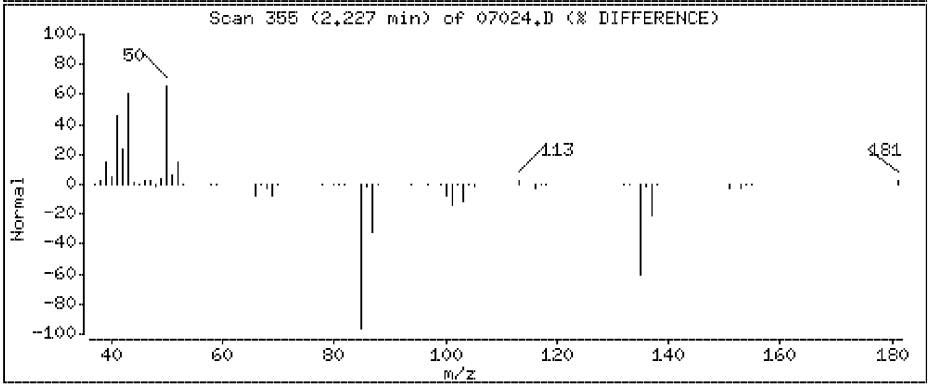












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

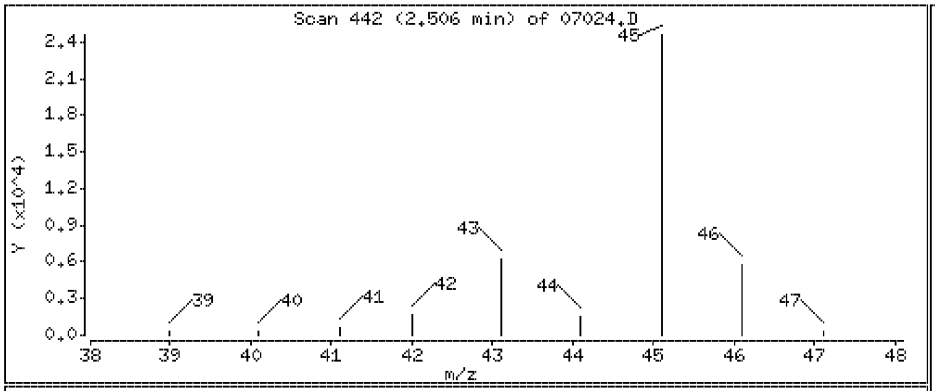
Operator: DR1

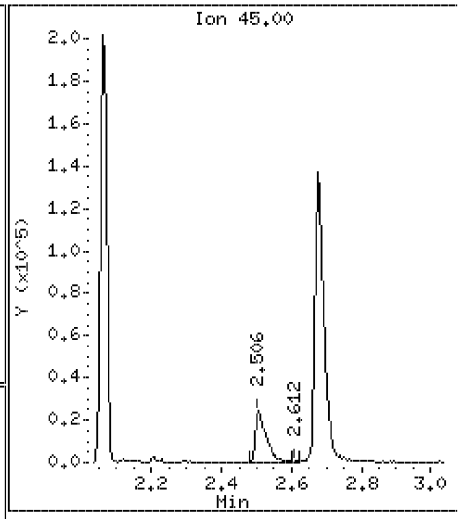
Column phase: J&W DB-5

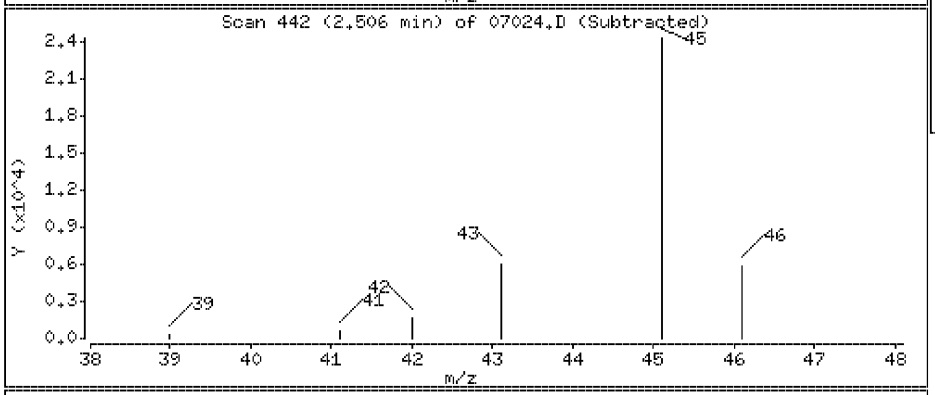
Column diameter: 0.32

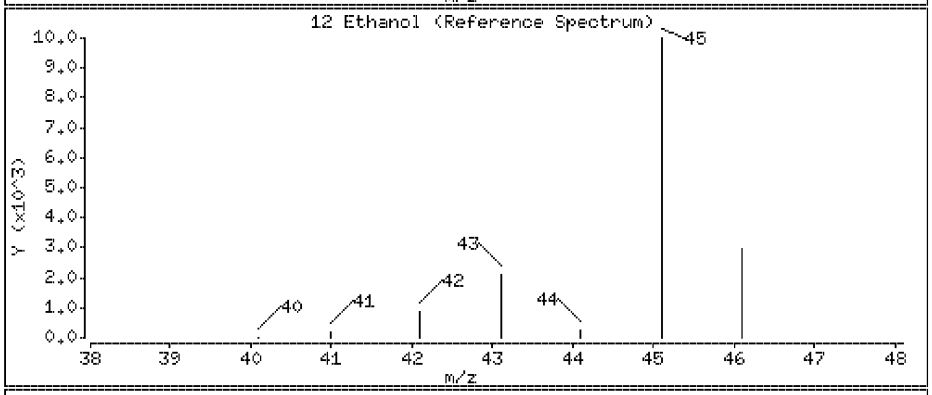
12 Ethanol

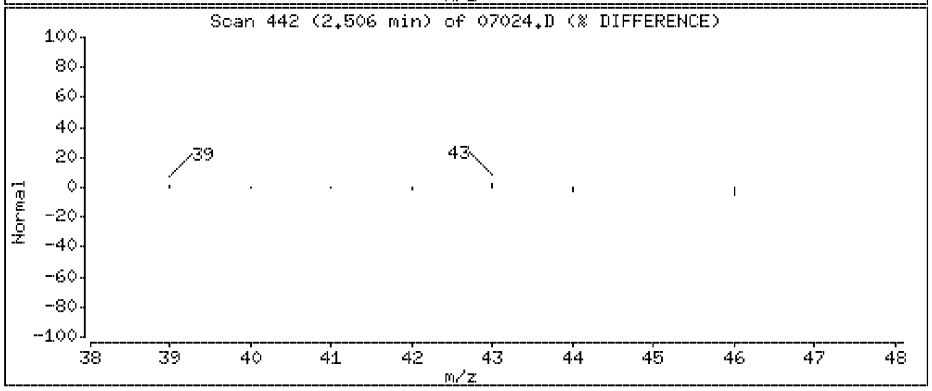
Concentration: 17.3 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

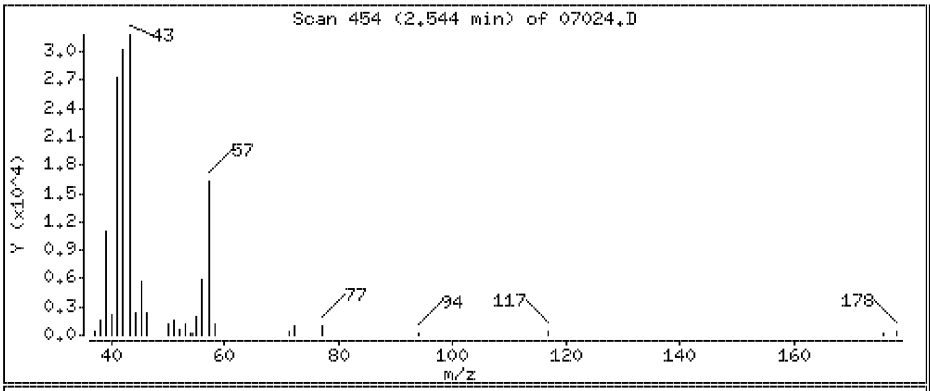
Operator: DR1

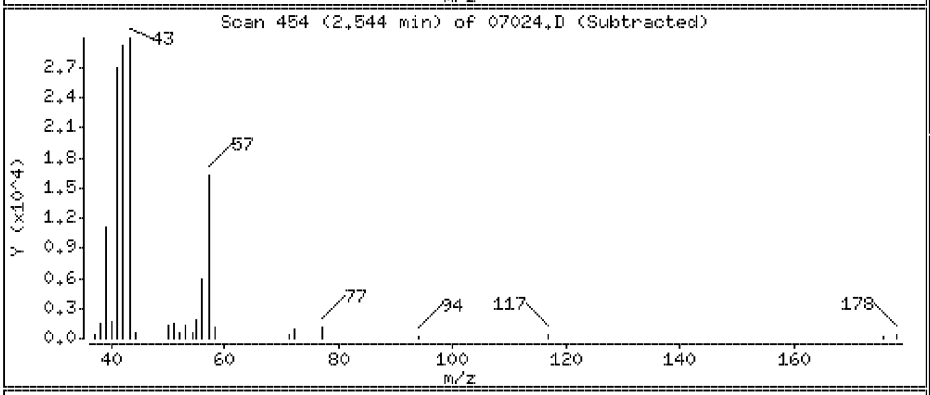
Column phase: J&W DB-5

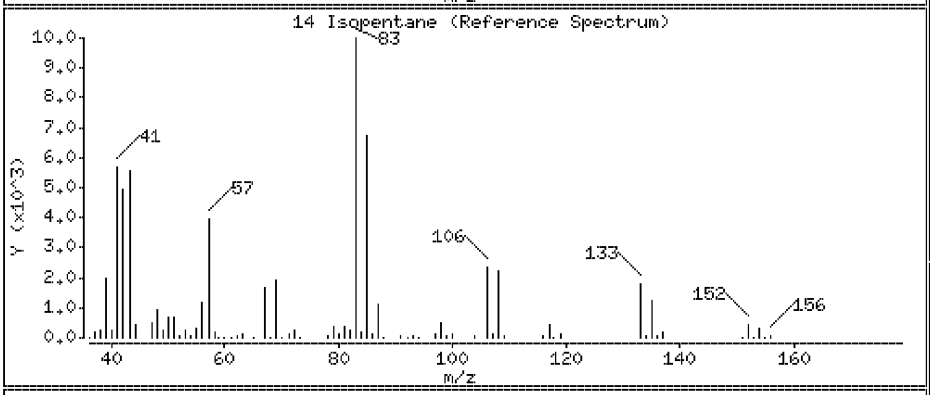
Column diameter: 0.32

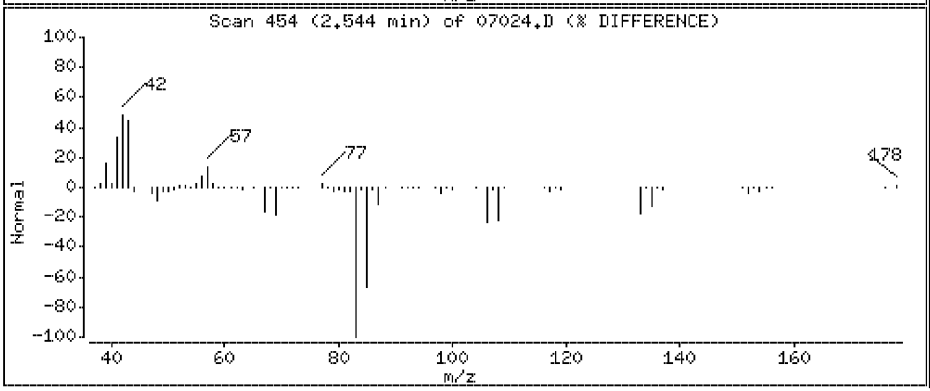
14 Isopentane

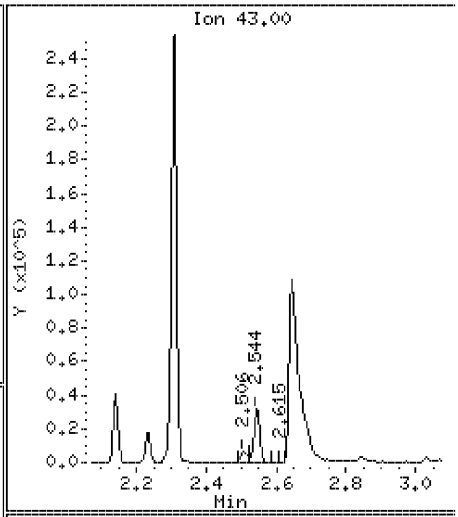
Concentration: 1.91 ppbv

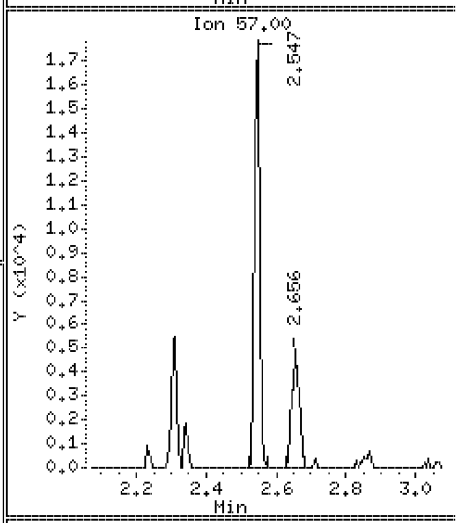


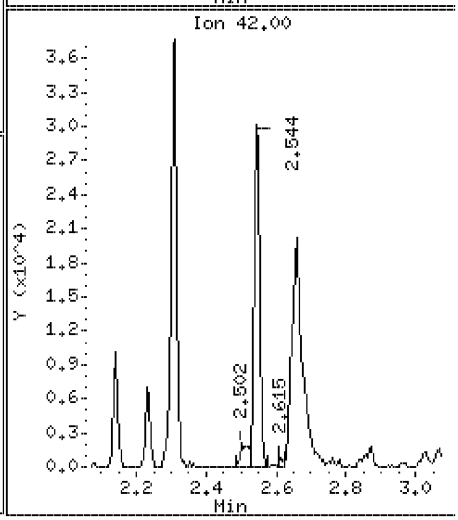












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

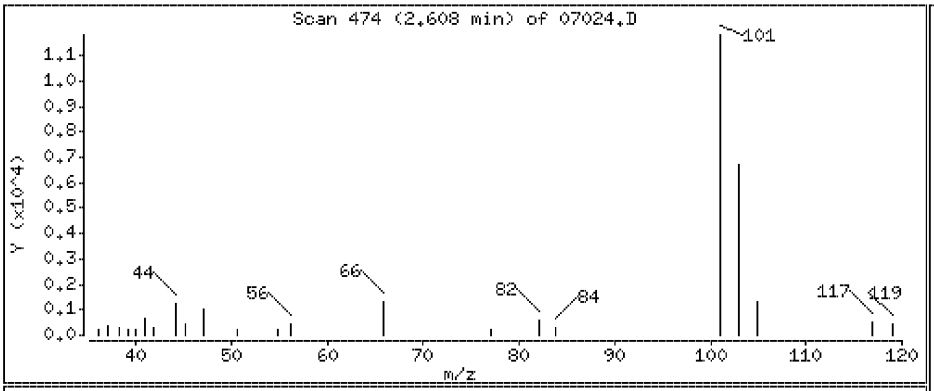
Operator: DR1

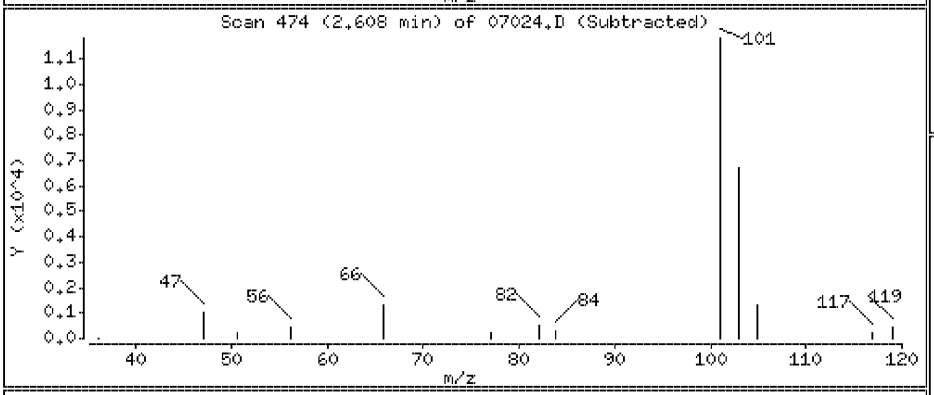
Column phase: J&W DB-5

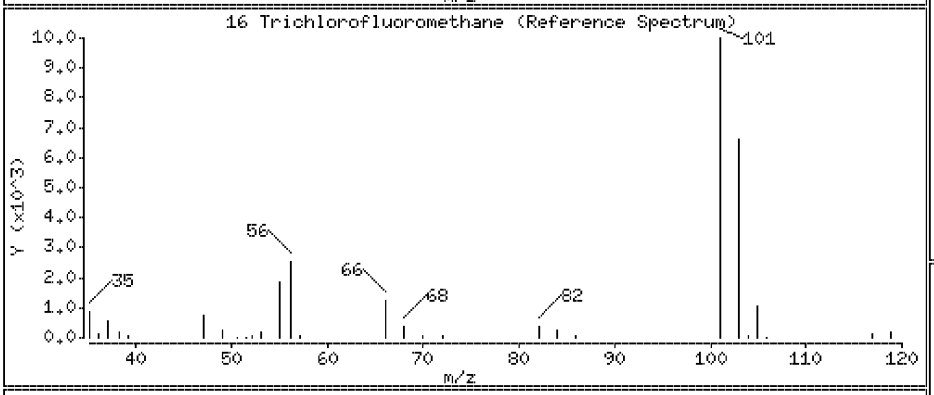
Column diameter: 0.32

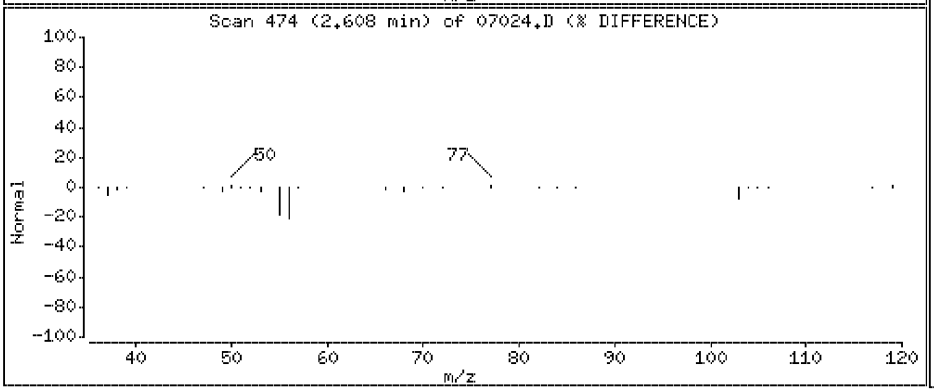
16 Trichlorofluoromethane

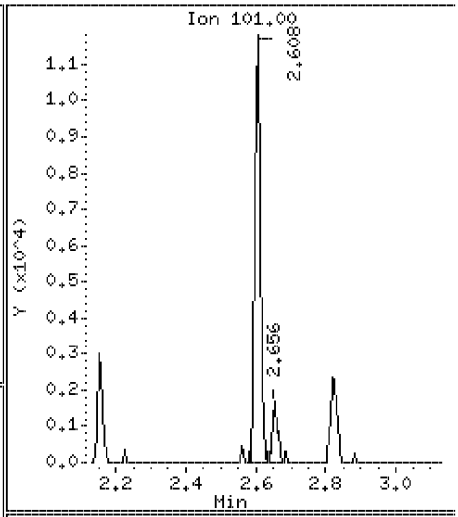
Concentration: 0.271 ppbv

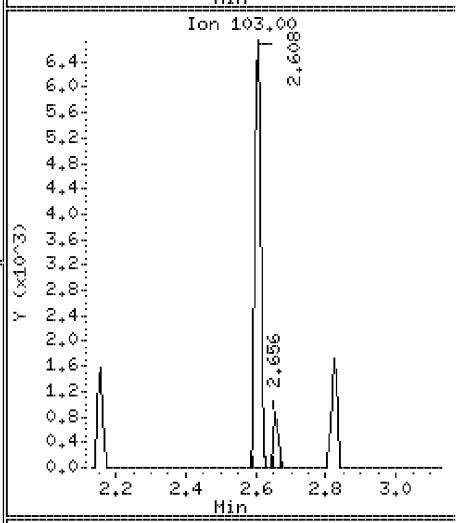


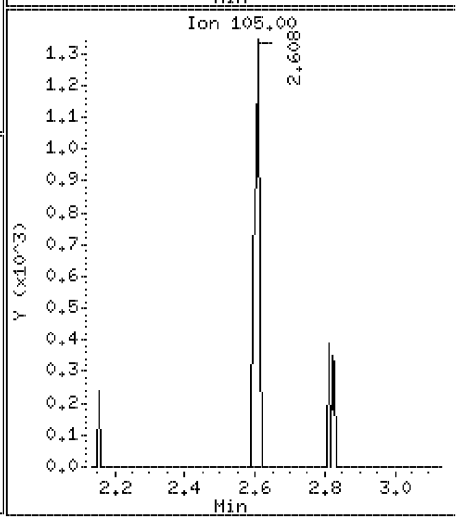












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

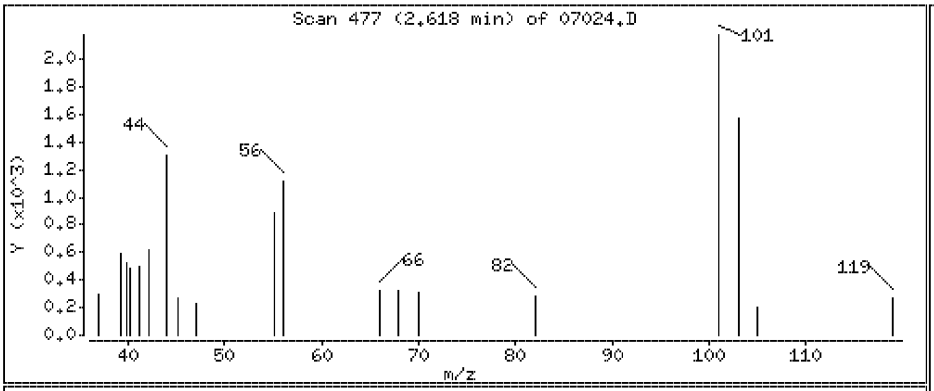
Operator: DR1

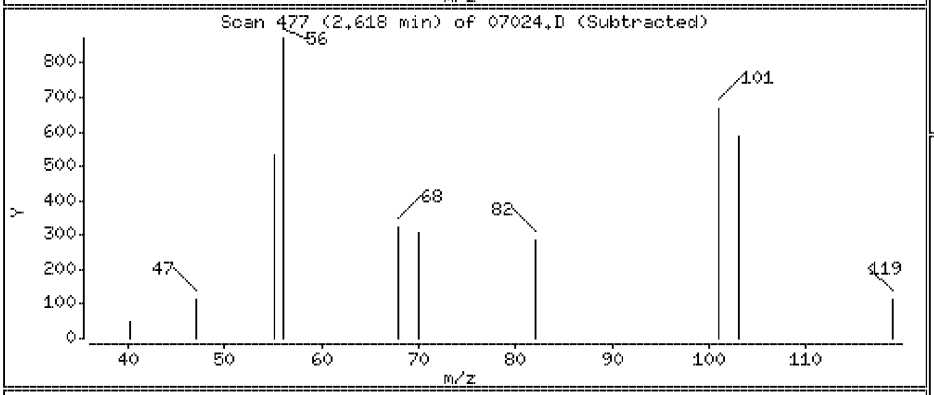
Column phase: J&W DB-5

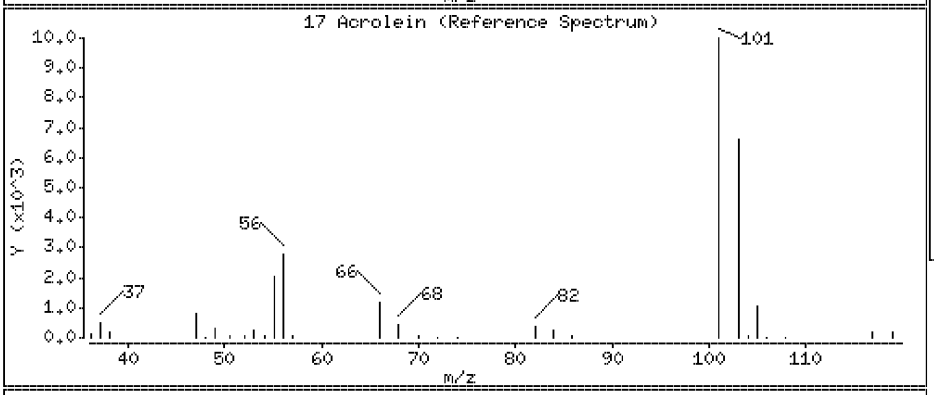
Column diameter: 0.32

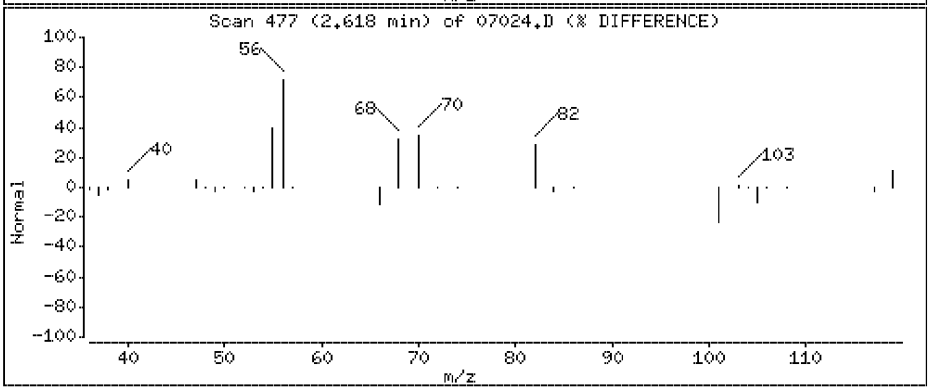
17 Acrolein

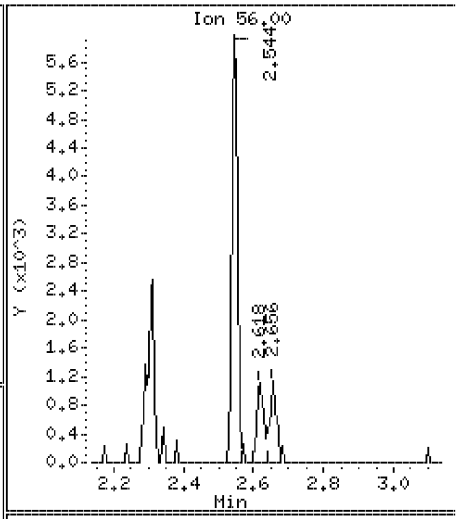
Concentration: 0.929 ppbv

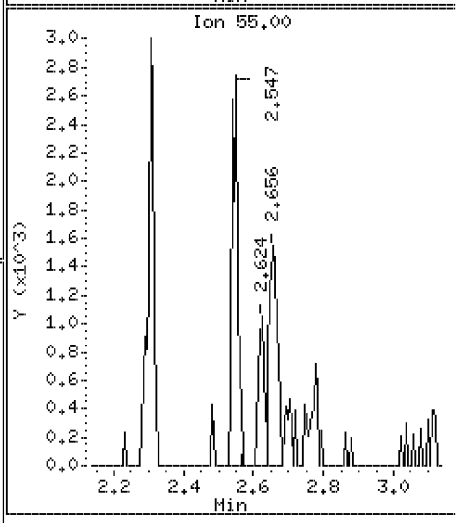












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

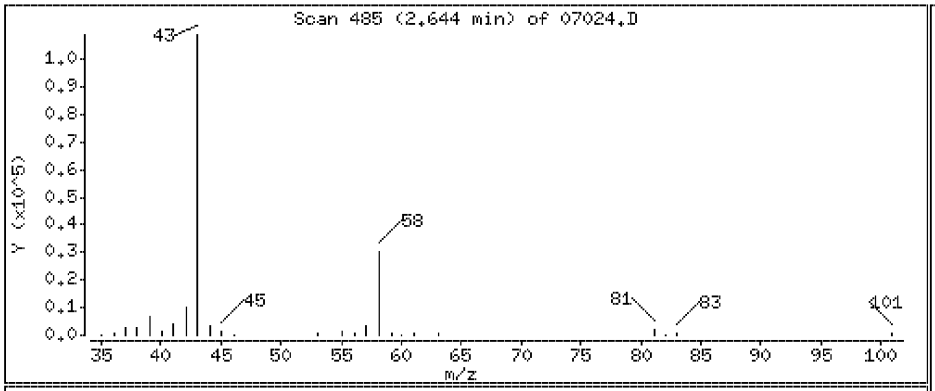
Operator: DR1

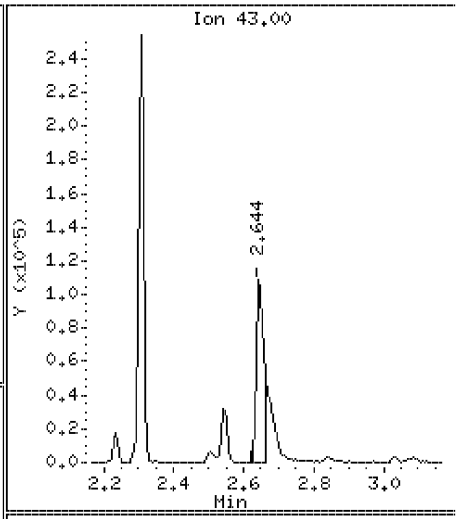
Column phase: J&W DB-5

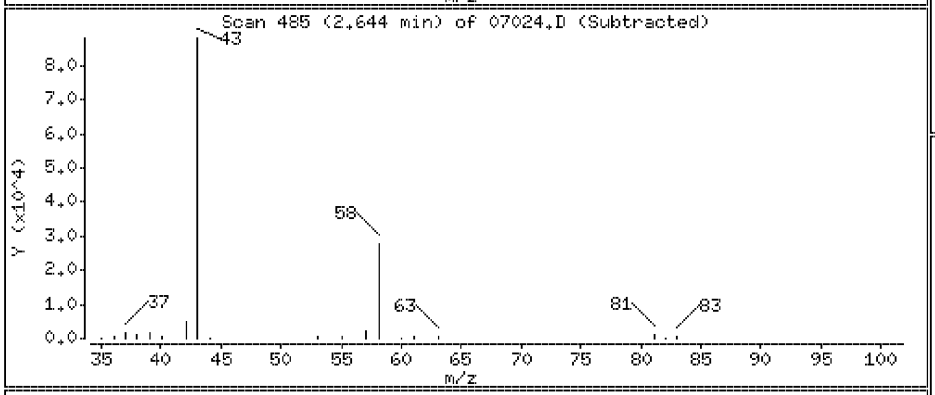
Column diameter: 0.32

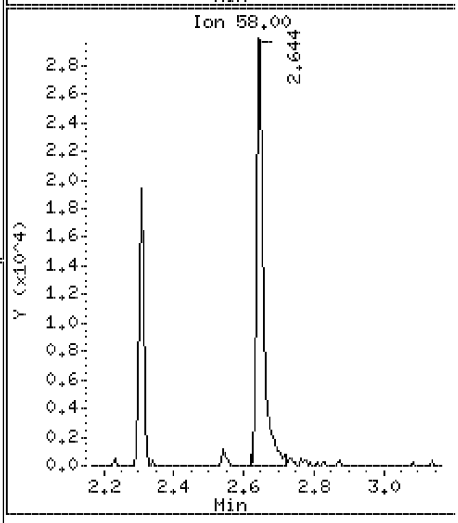
18 Acetone

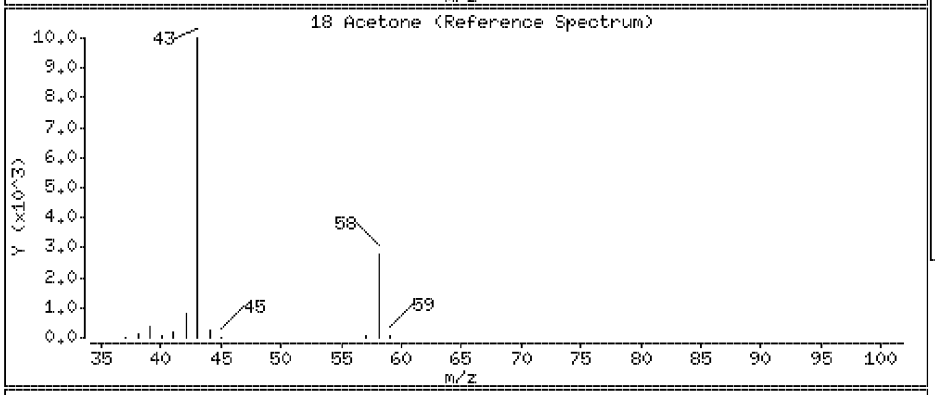
Concentration: 5.39 ppbv

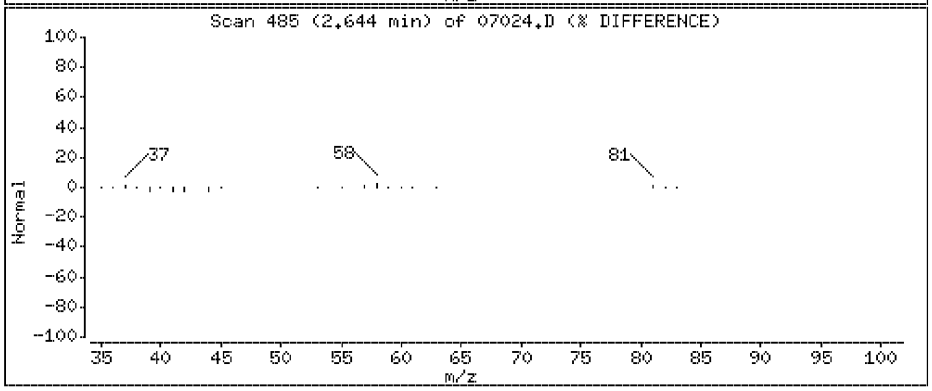












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

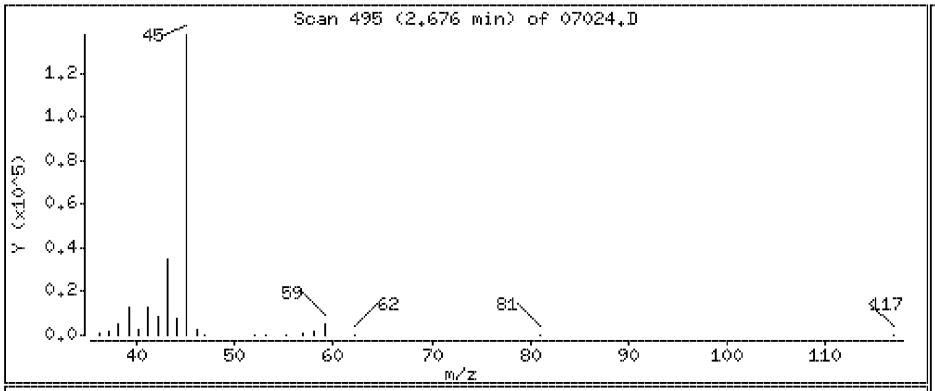
Operator: DR1

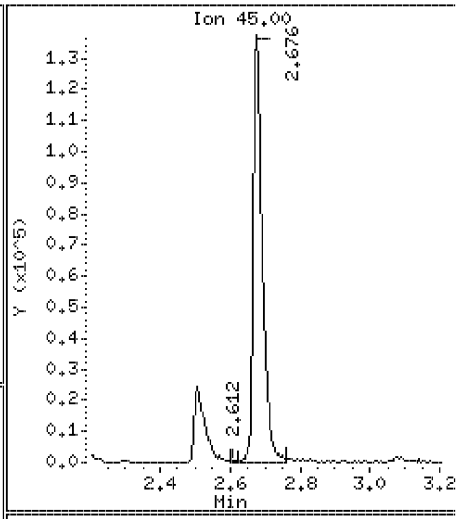
Column phase: J&W DB-5

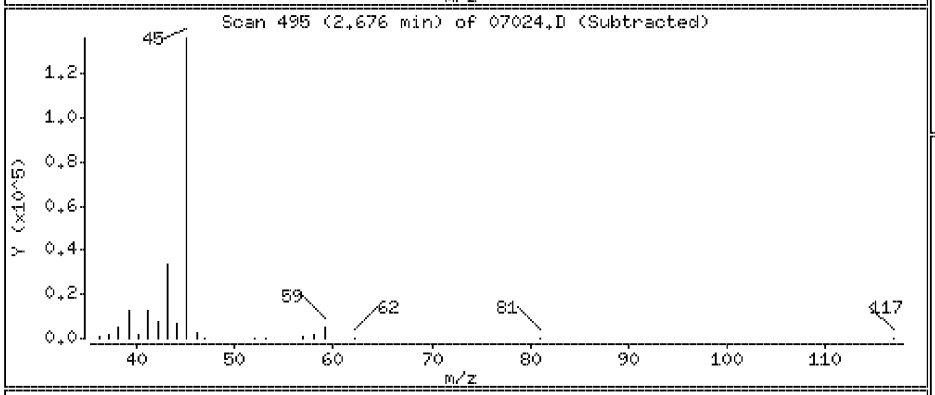
Column diameter: 0.32

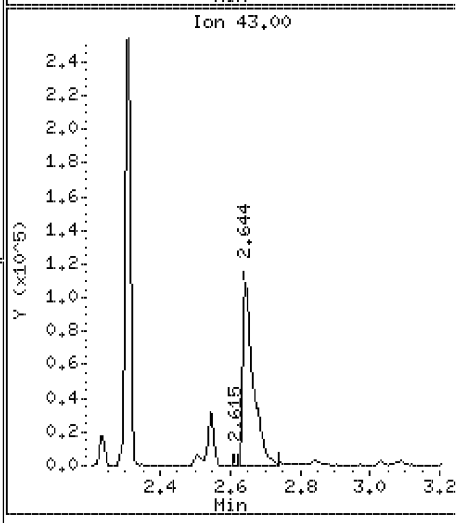
19 Isopropyl Alcohol

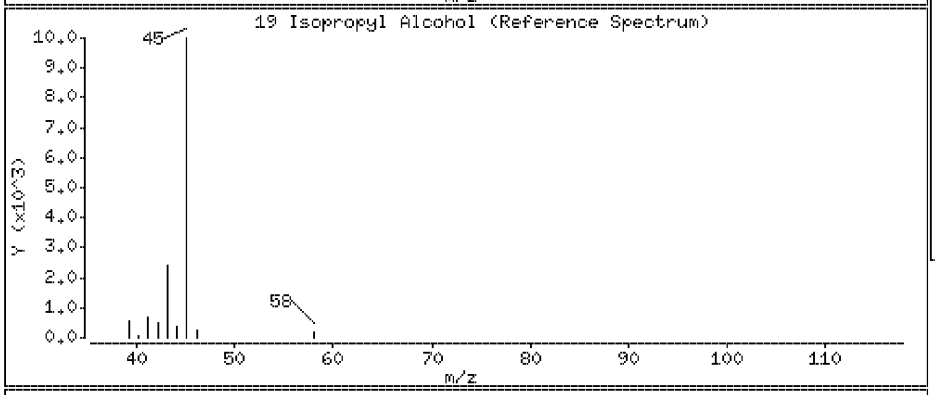
Concentration: 15.8 ppbv

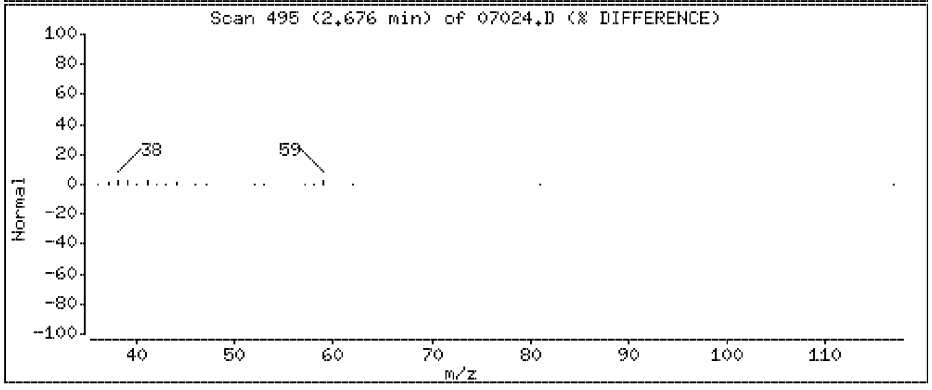












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

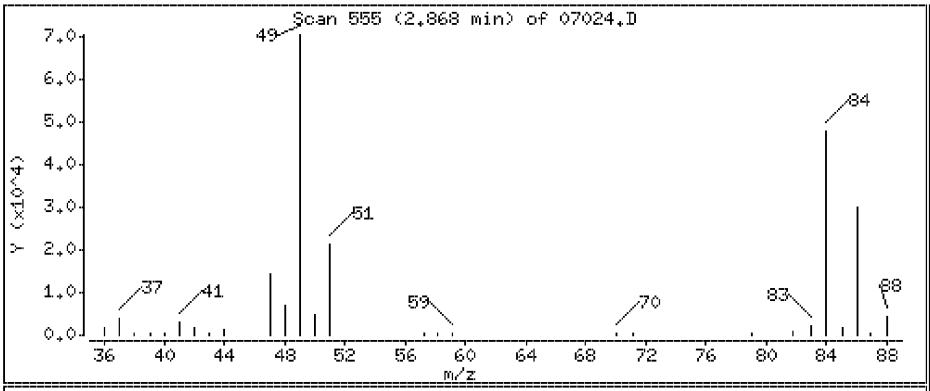
Operator: DR1

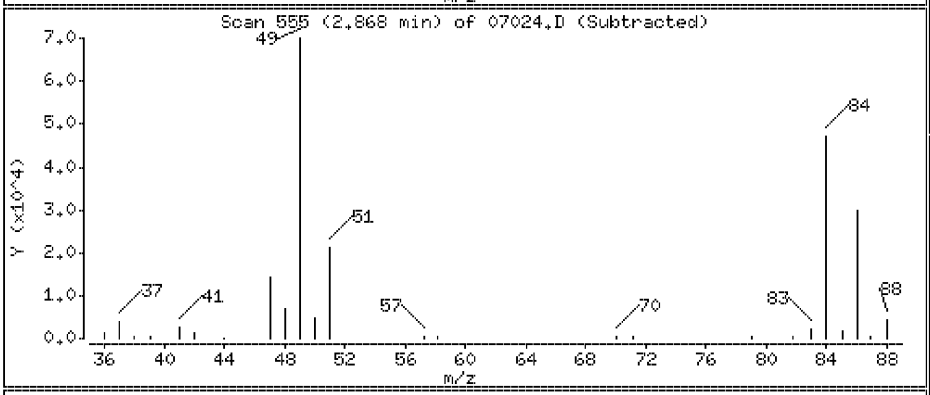
Column phase: J&W DB-5

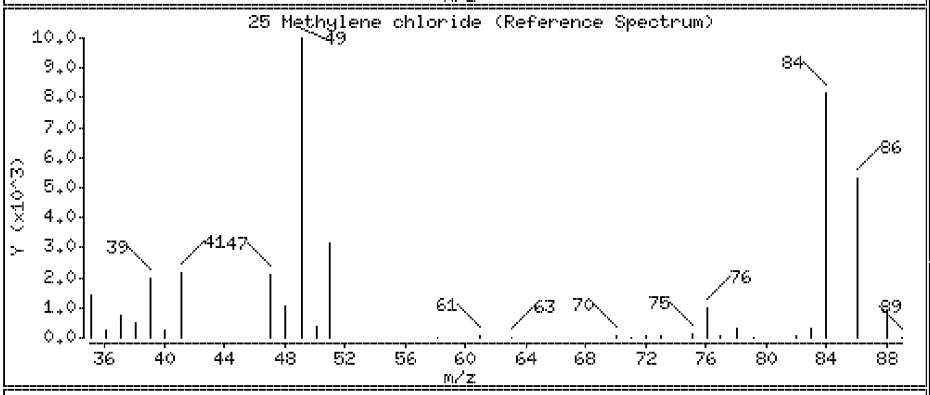
Column diameter: 0.32

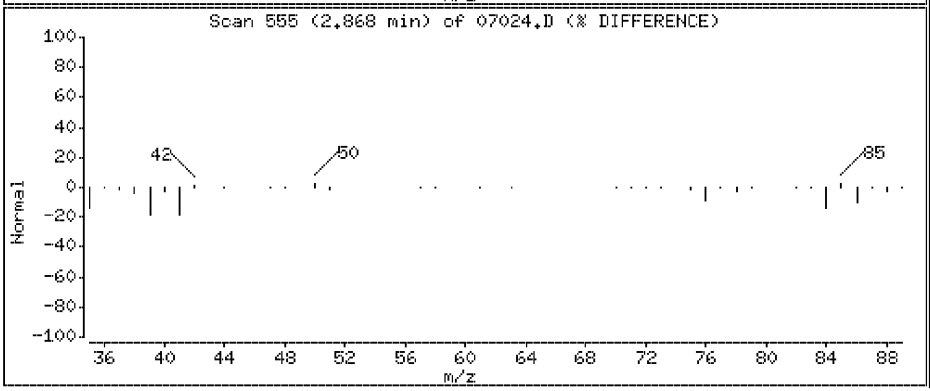
25 Methylene chloride

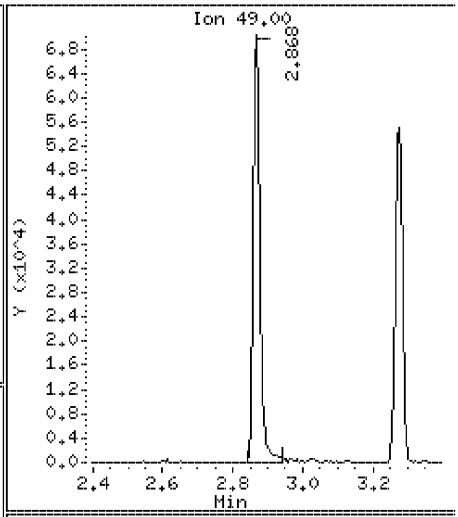
Concentration: 3.98 ppbv

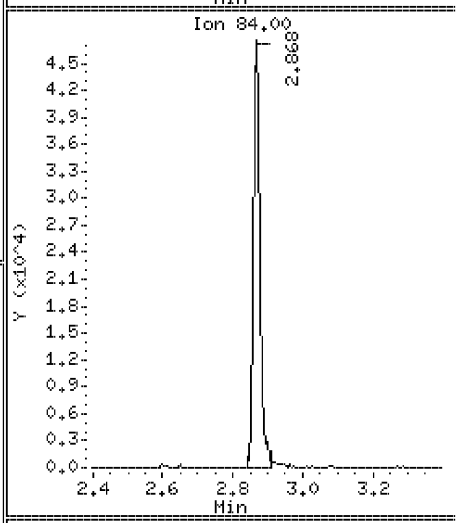


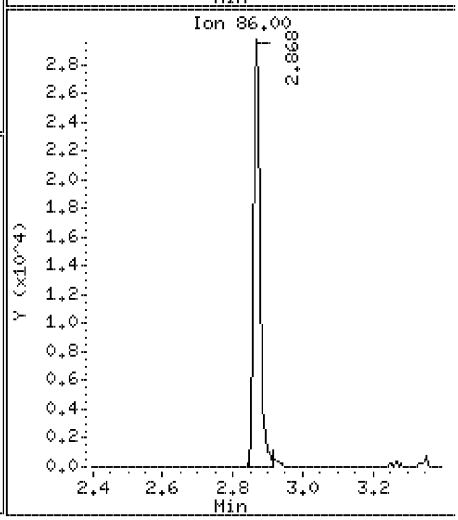












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

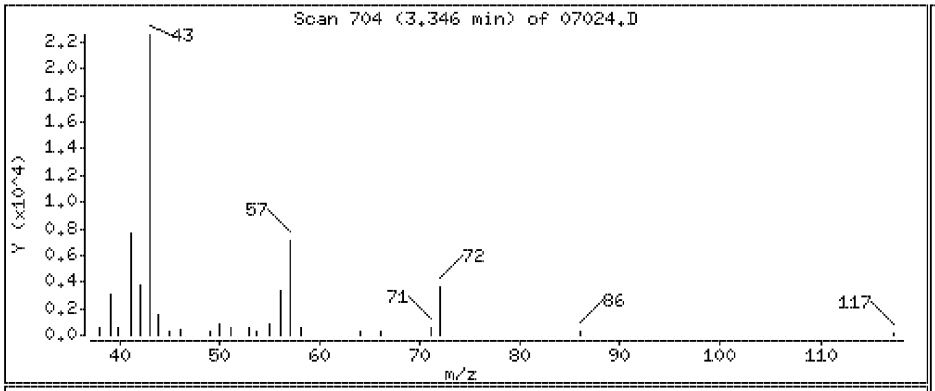
Operator: DR1

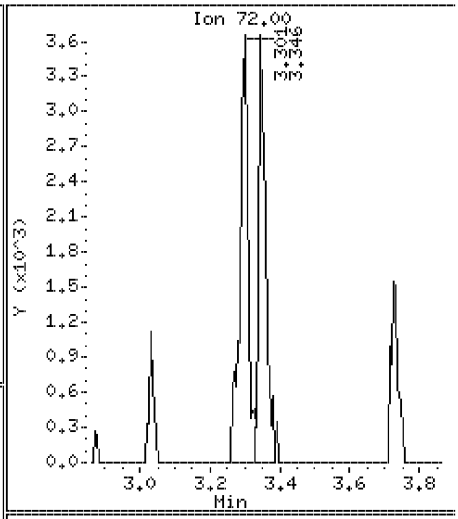
Column phase: J&W DB-5

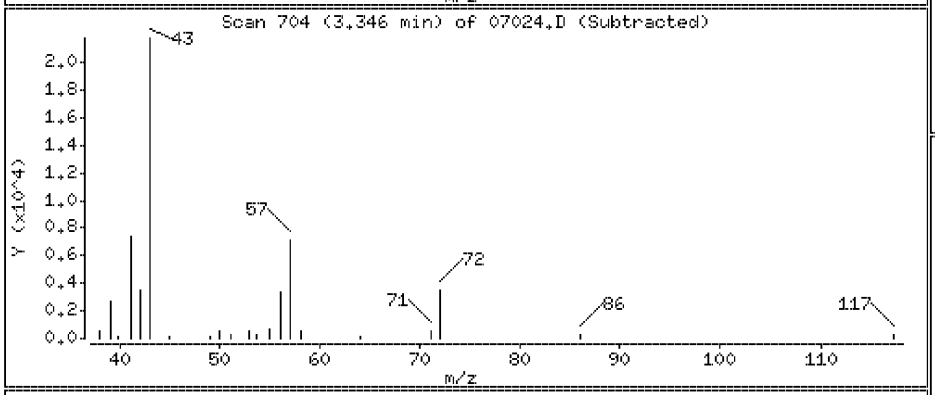
Column diameter: 0.32

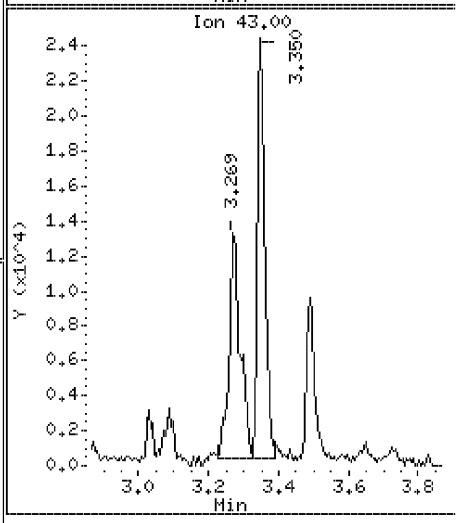
33 Methyl Ethyl Ketone

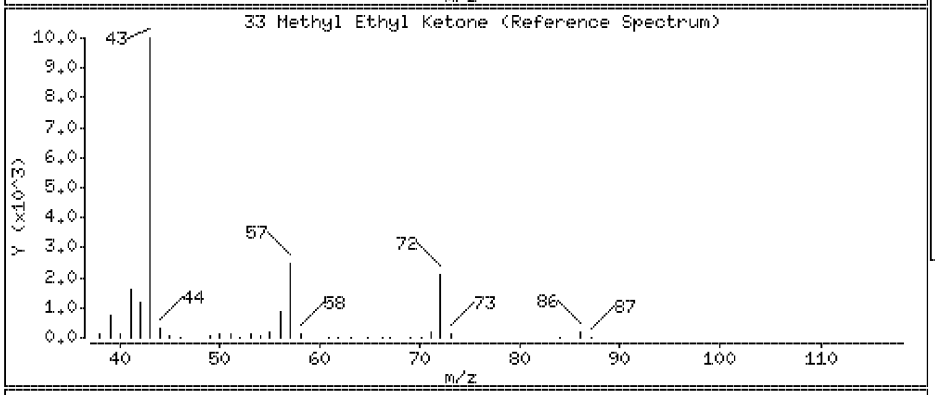
Concentration: 0.765 ppbv

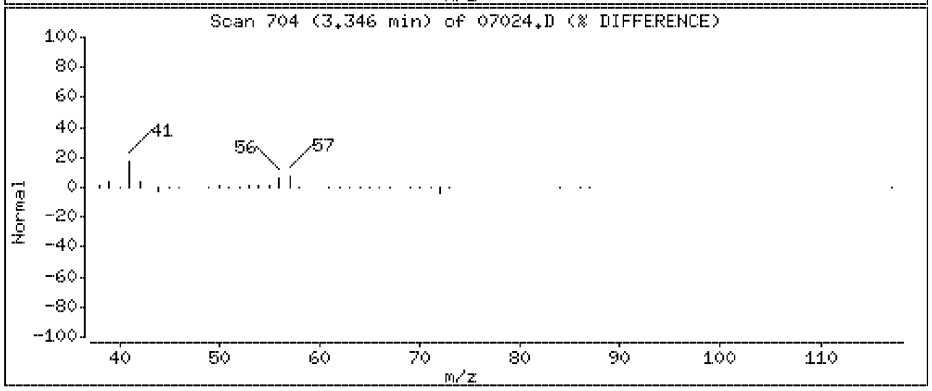












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

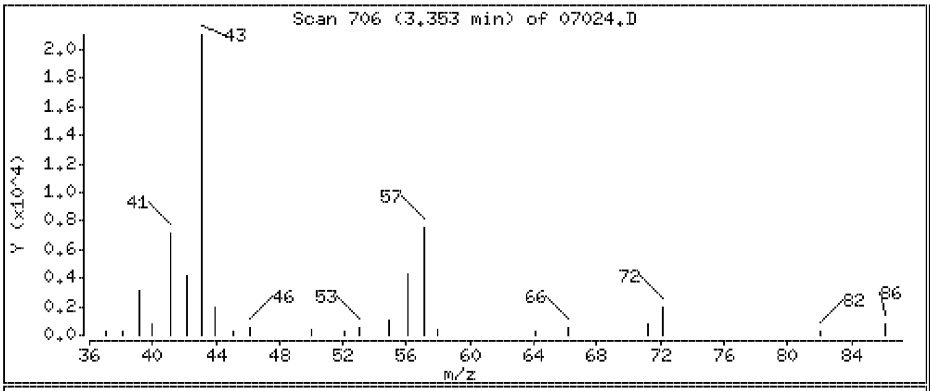
Operator: DR1

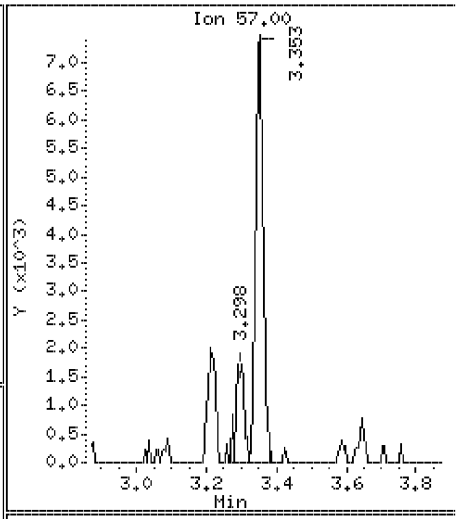
Column phase: J&W DB-5

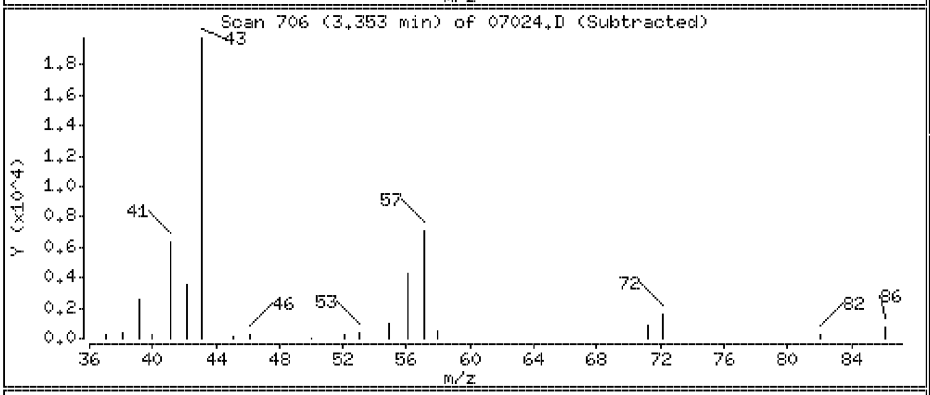
Column diameter: 0.32

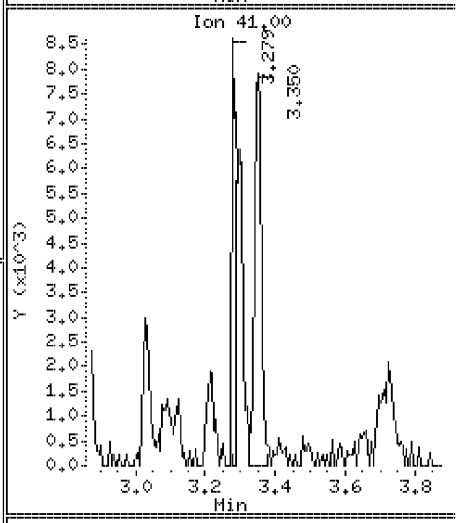
34 n-Hexane

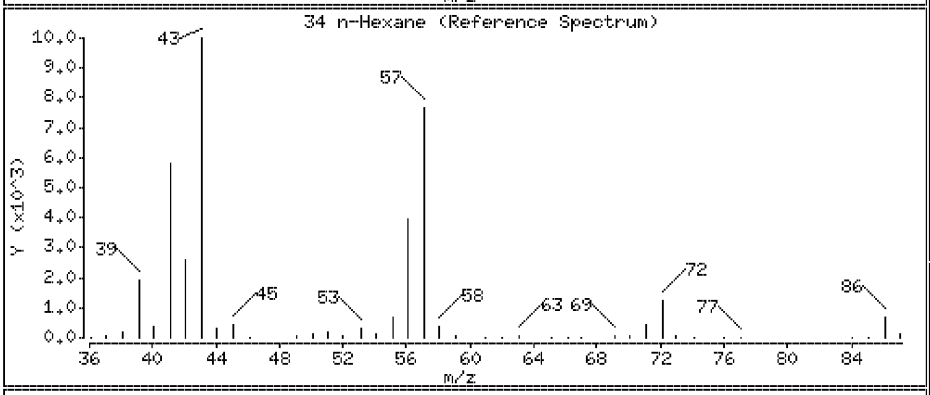
Concentration: 0.470 ppbv

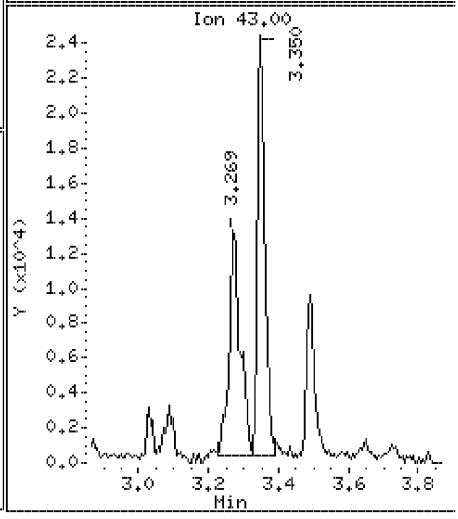


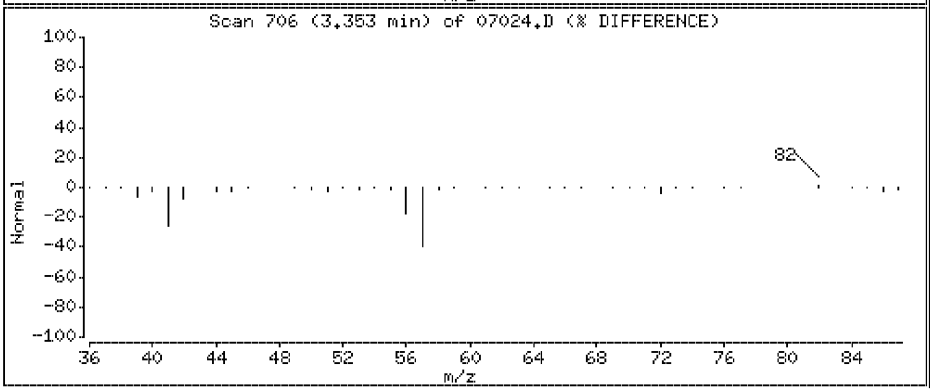












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

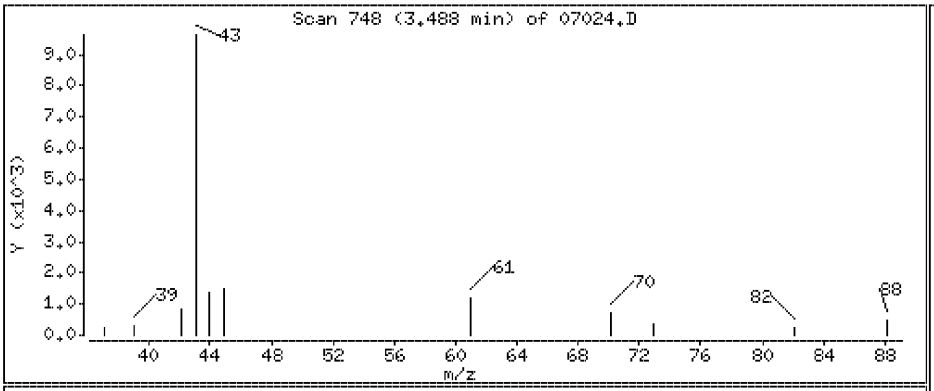
Operator: DR1

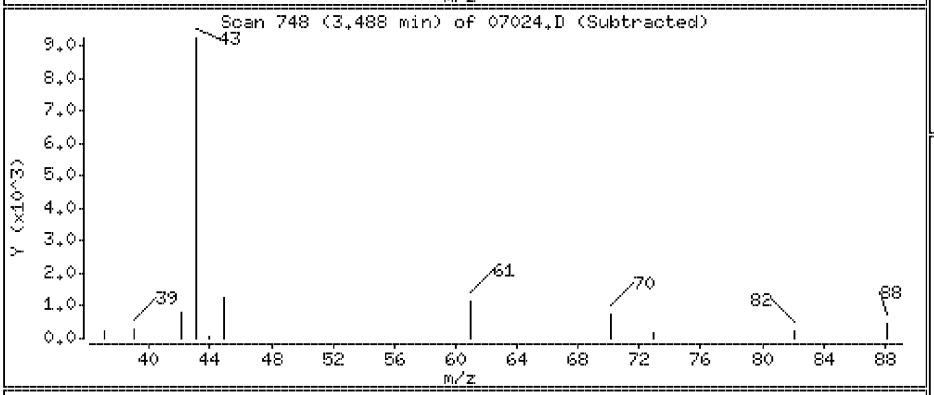
Column phase: J&W DB-5

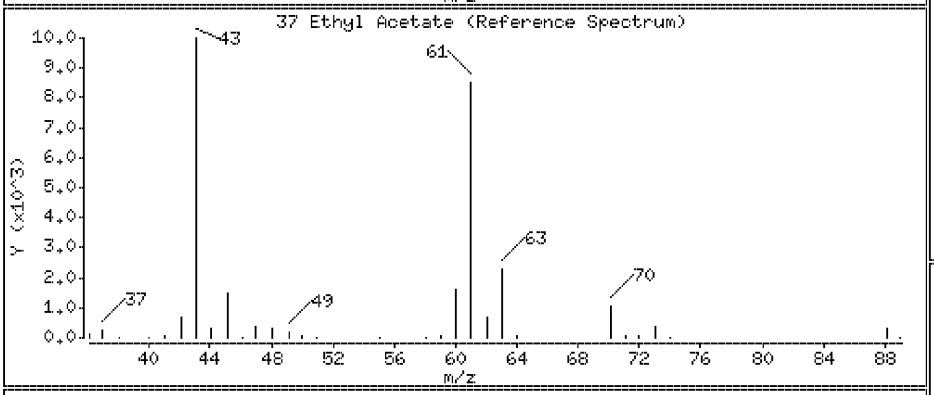
Column diameter: 0.32

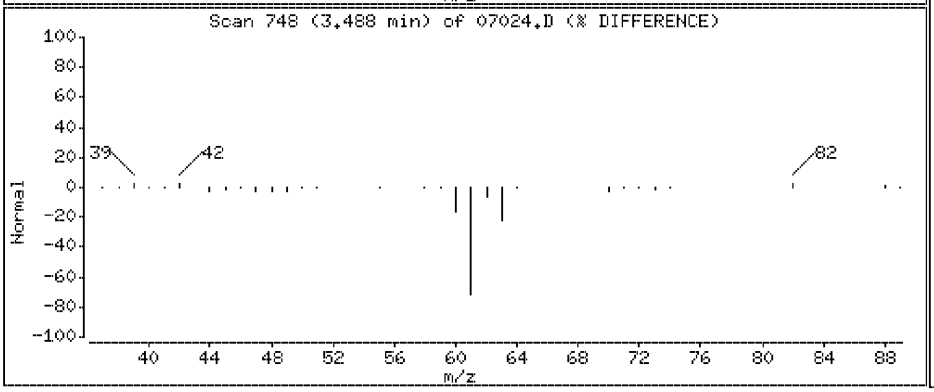
37 Ethyl Acetate

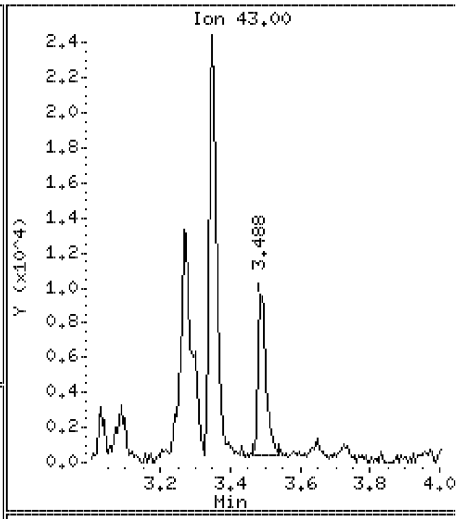
Concentration: 0.389 ppbv

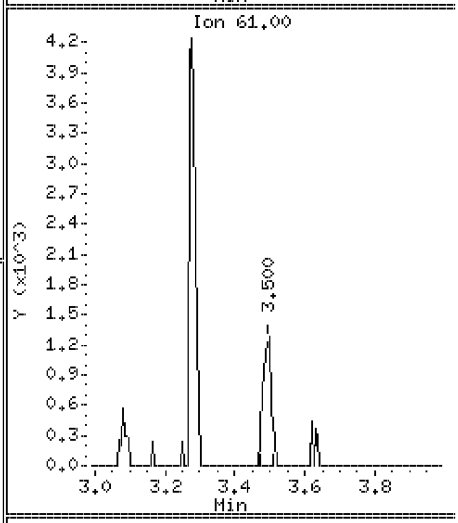


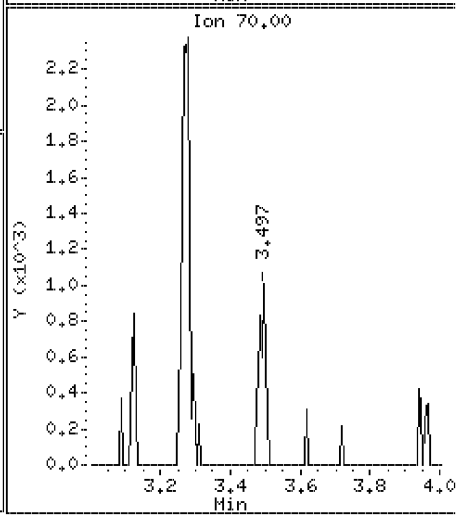












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

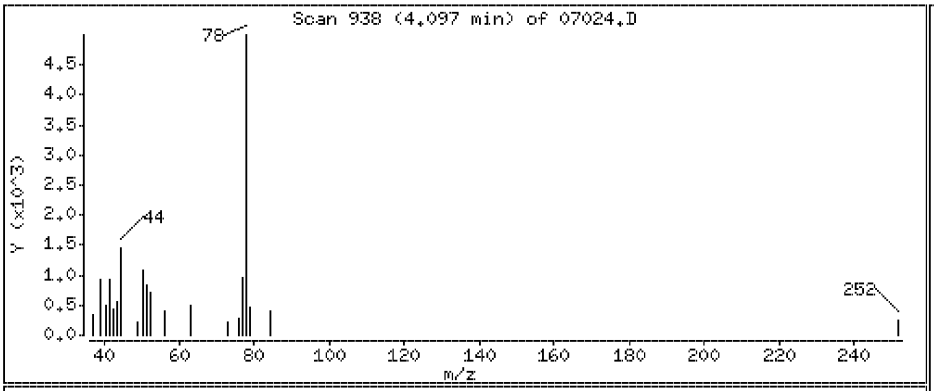
Operator: DR1

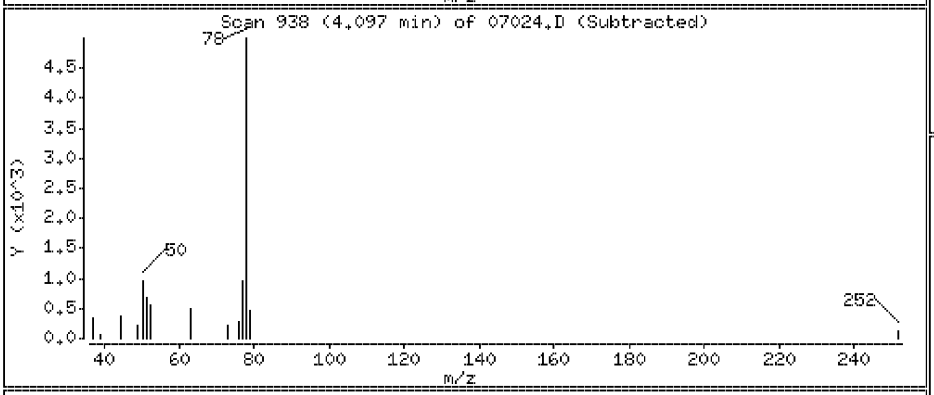
Column phase: J&W DB-5

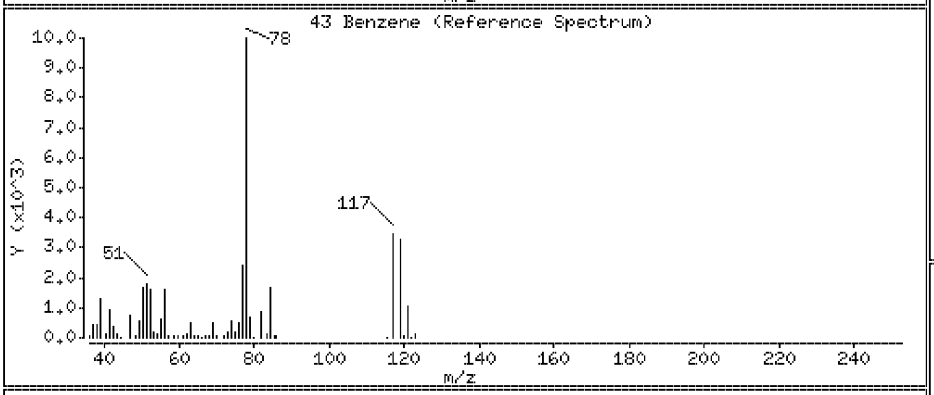
Column diameter: 0.32

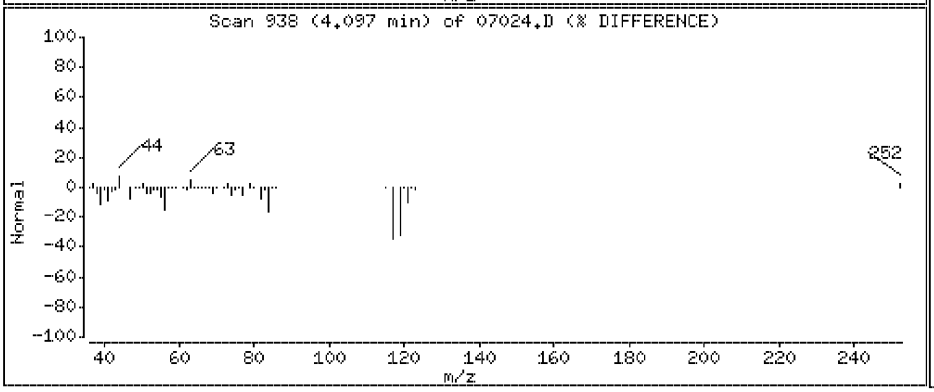
43 Benzene

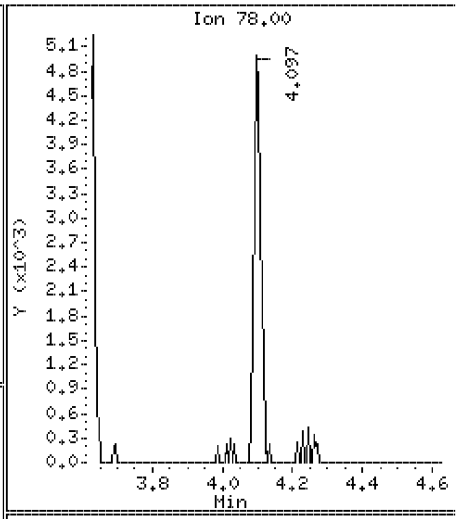
Concentration: 0.150 ppbv

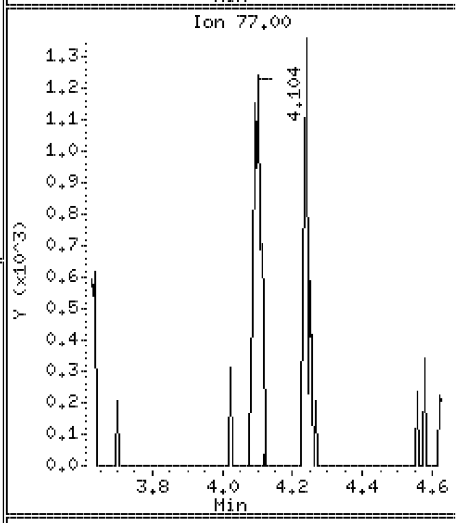


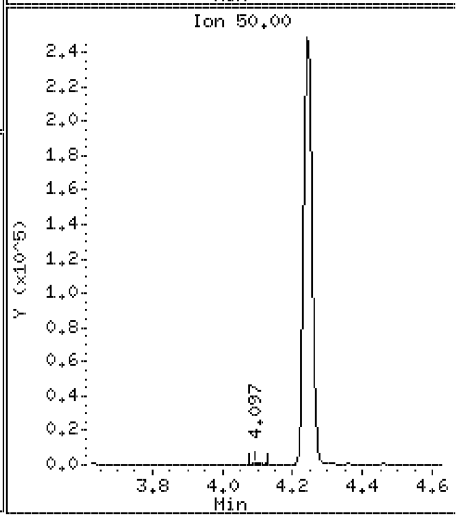












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

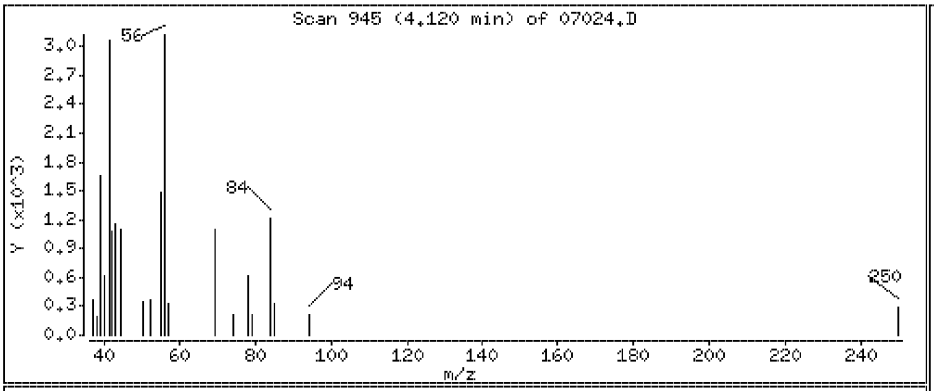
Operator: DR1

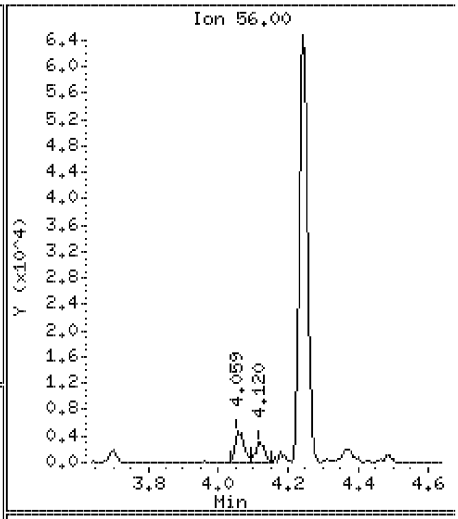
Column phase: J&W DB-5

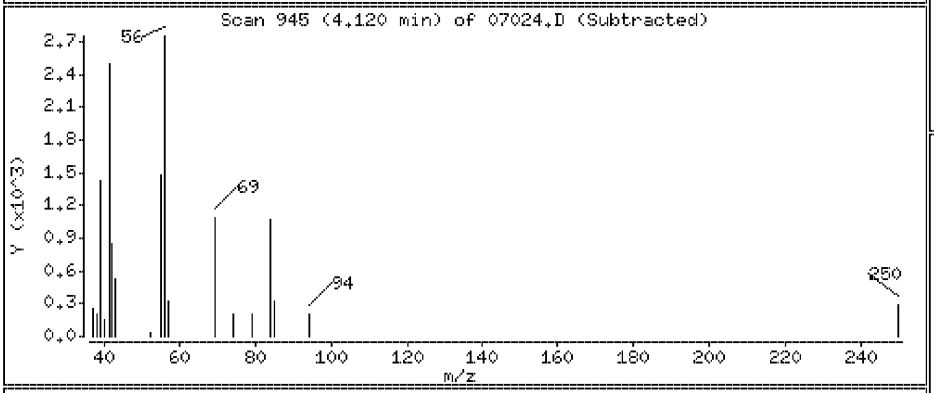
Column diameter: 0.32

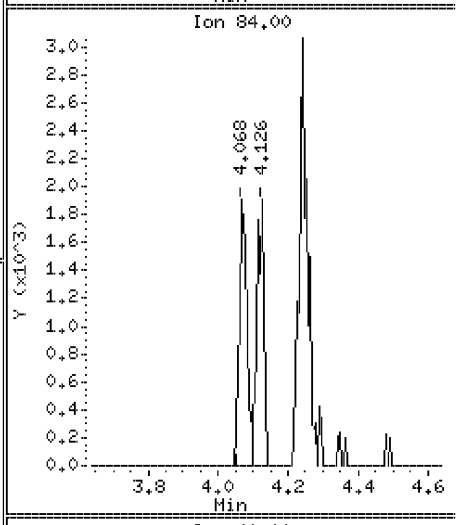
44 Cyclohexane

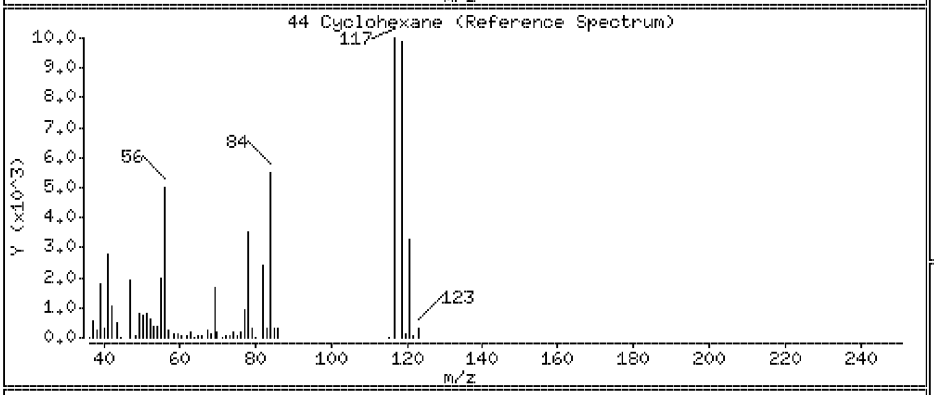
Concentration: 0.231 ppbv

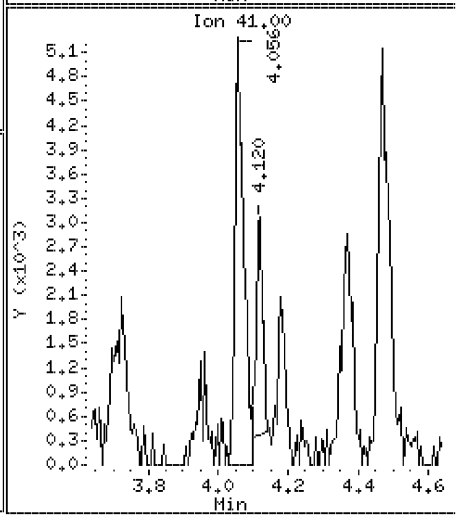


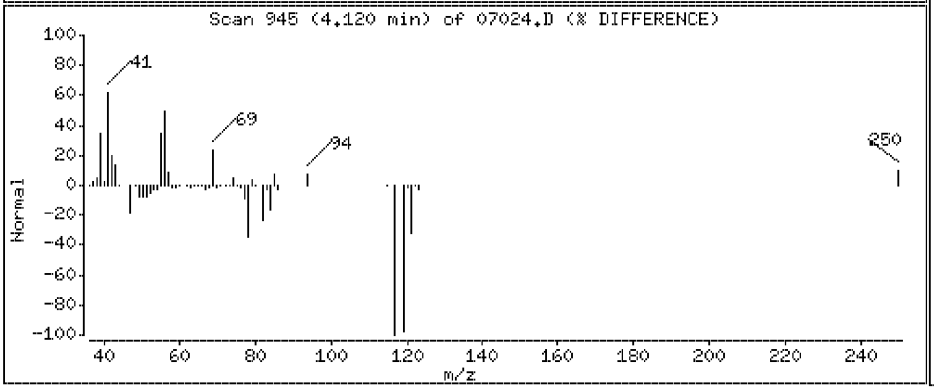












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

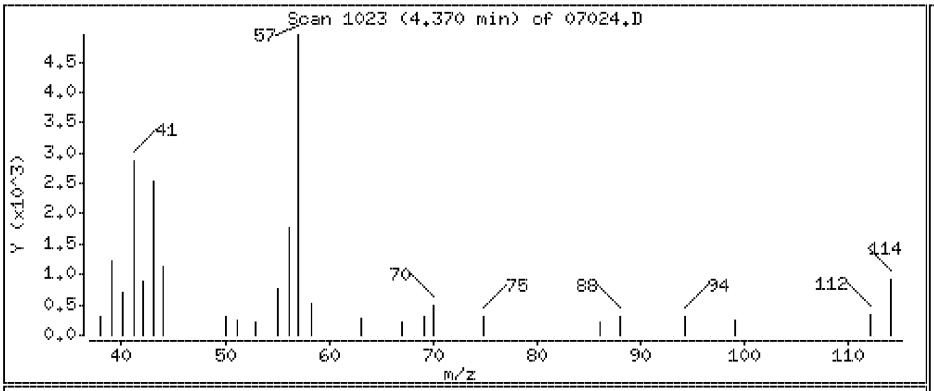
Operator: DR1

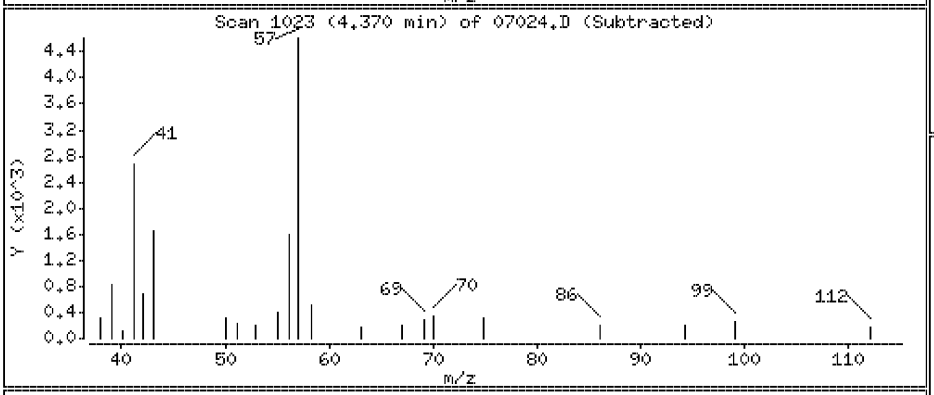
Column phase: J&W DB-5

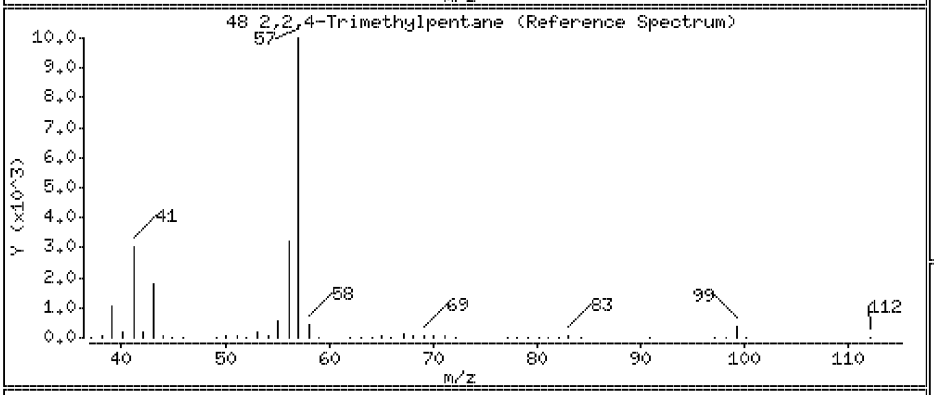
Column diameter: 0.32

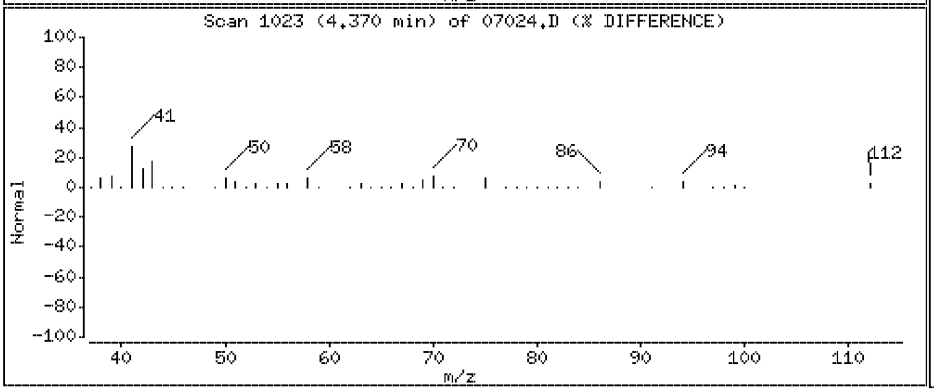
48 2,2,4-Trimethylpentane

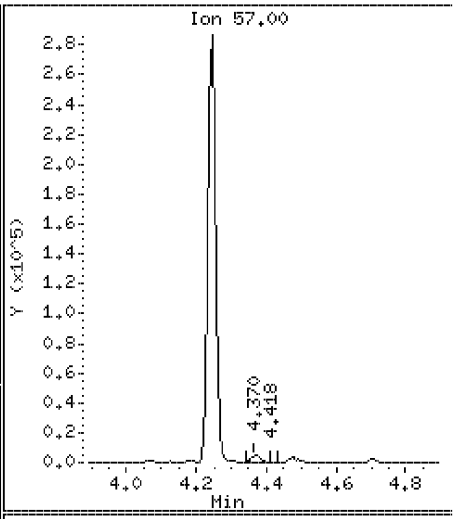
Concentration: 267 ppbv

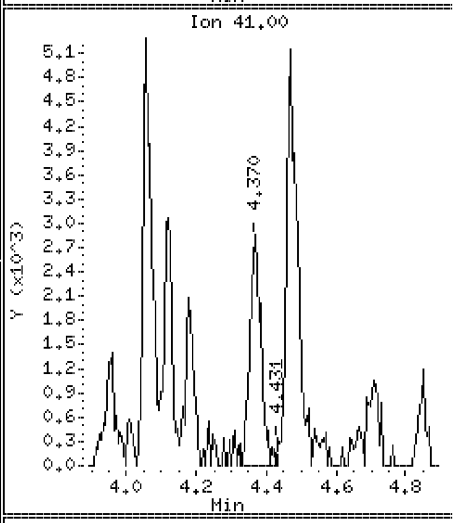


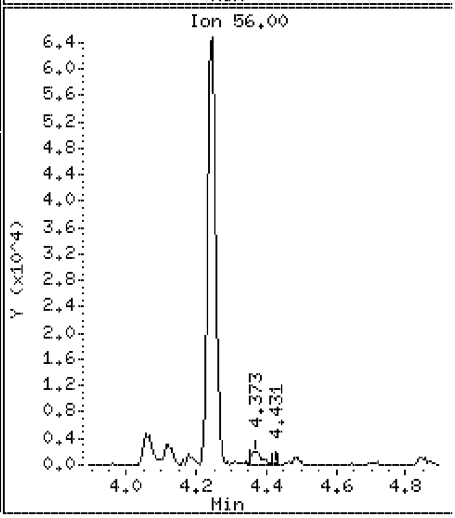












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

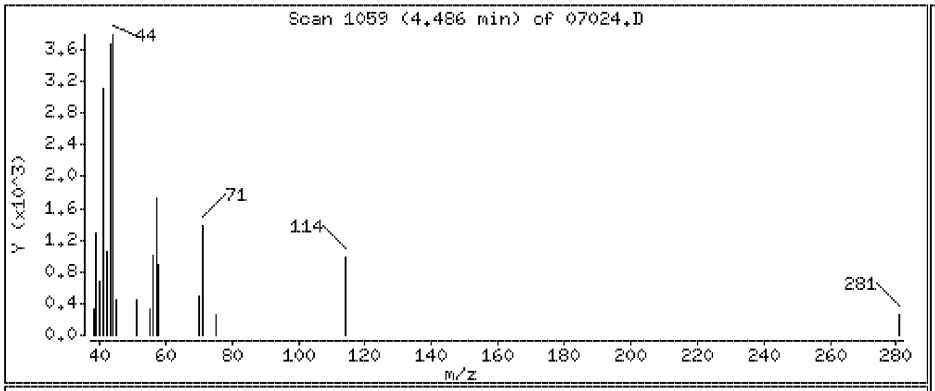
Operator: DR1

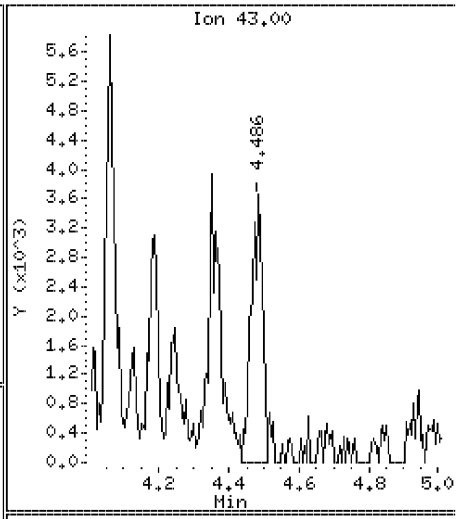
Column phase: J&W DB-5

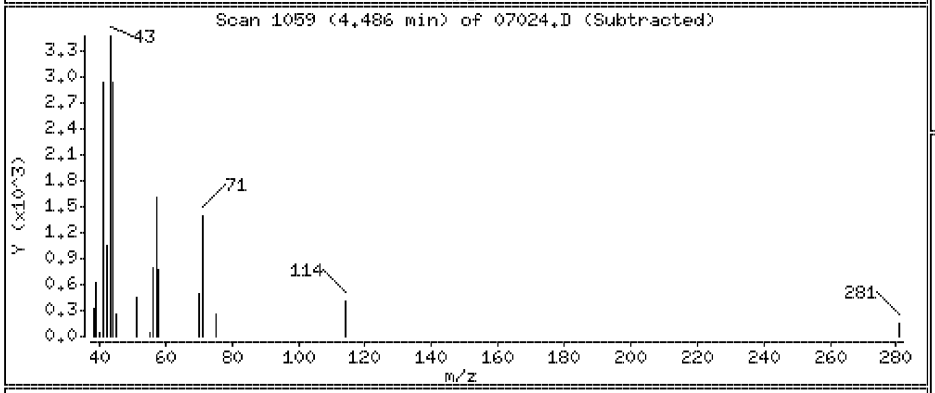
Column diameter: 0.32

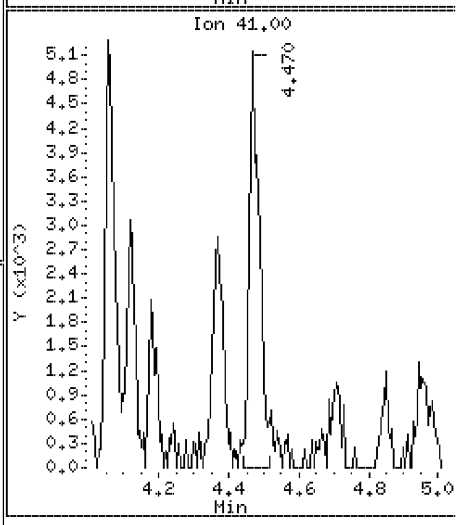
49 Heptane

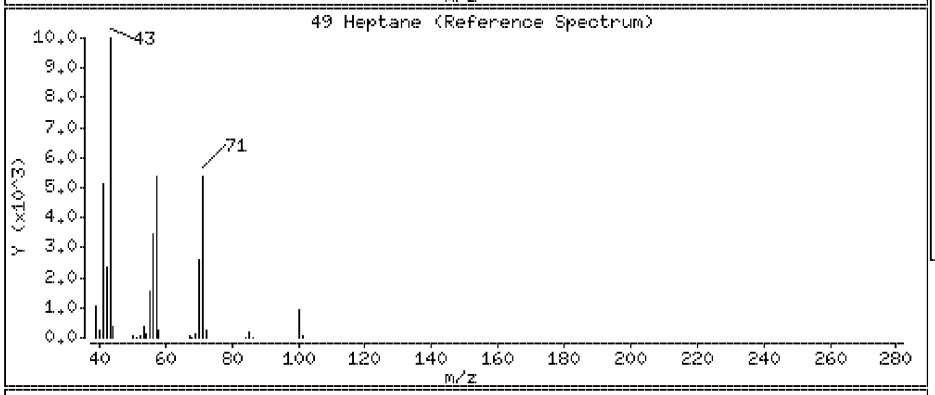
Concentration: 0.235 ppbv

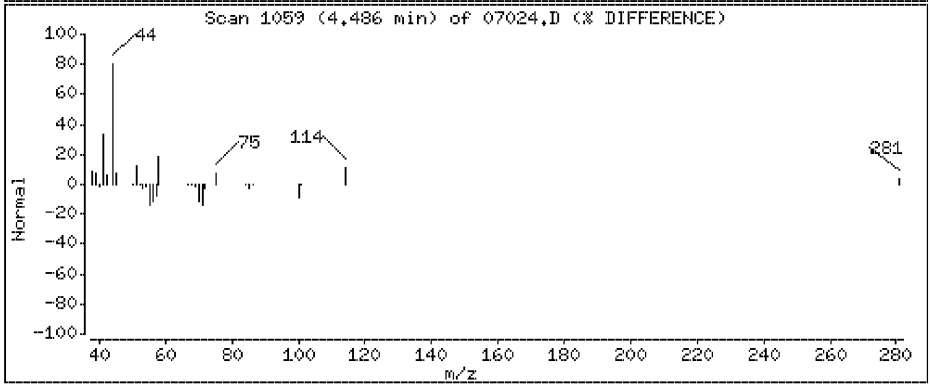












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

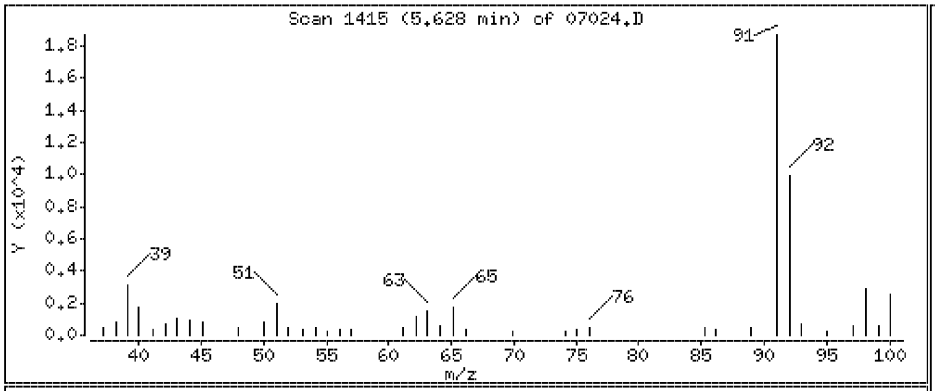
Operator: DR1

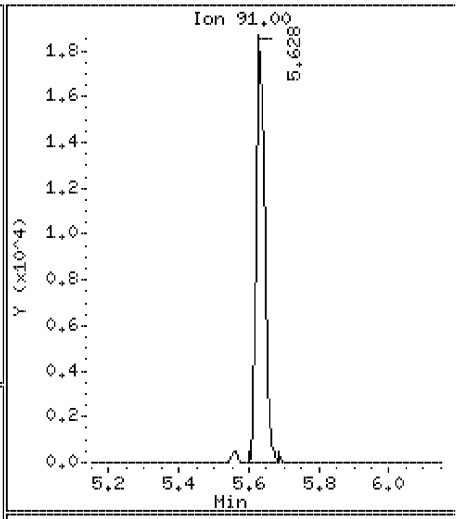
Column phase: J&W DB-5

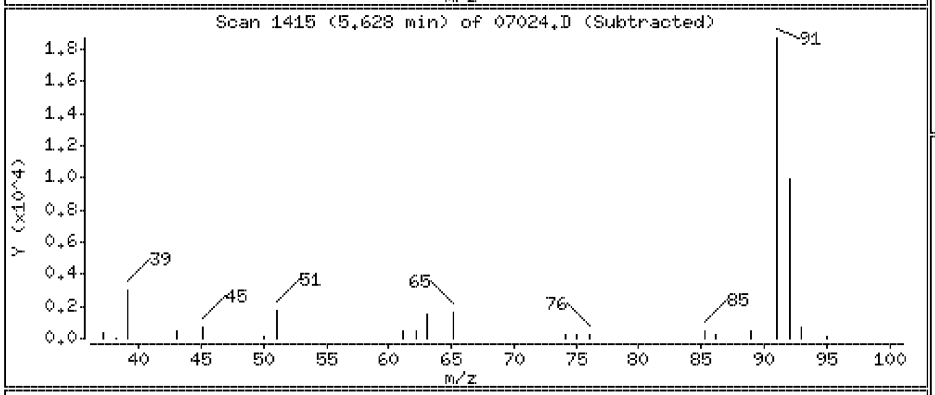
Column diameter: 0.32

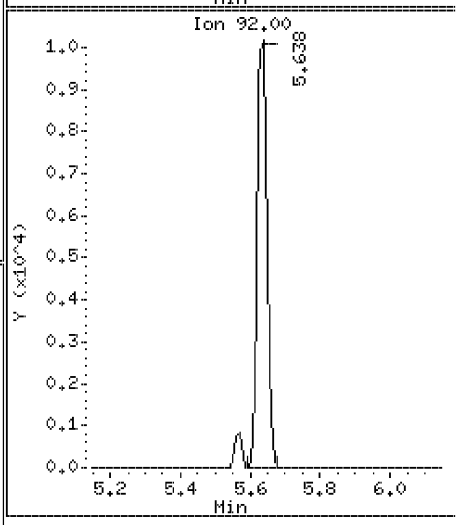
60 Toluene

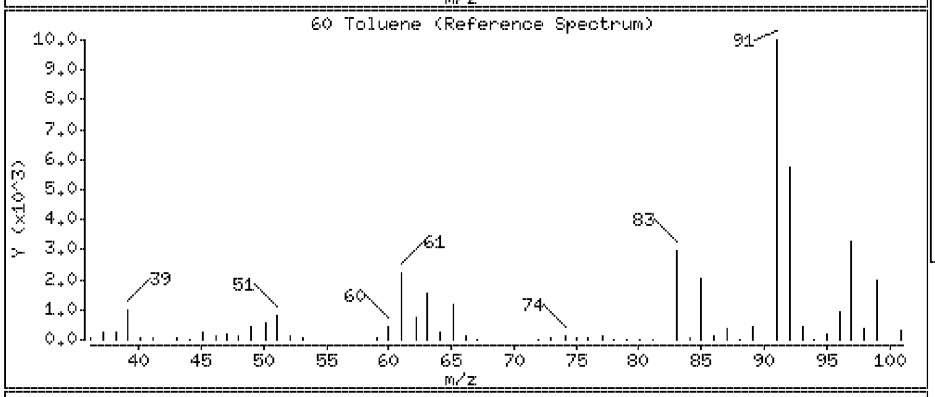
Concentration: 0.538 ppbv

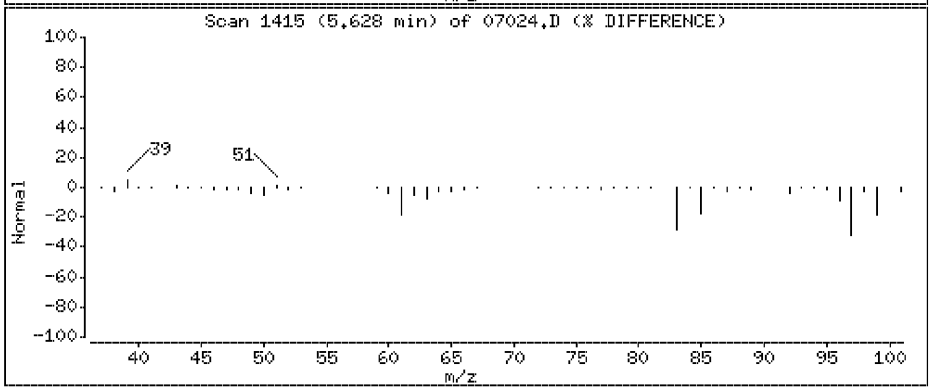












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

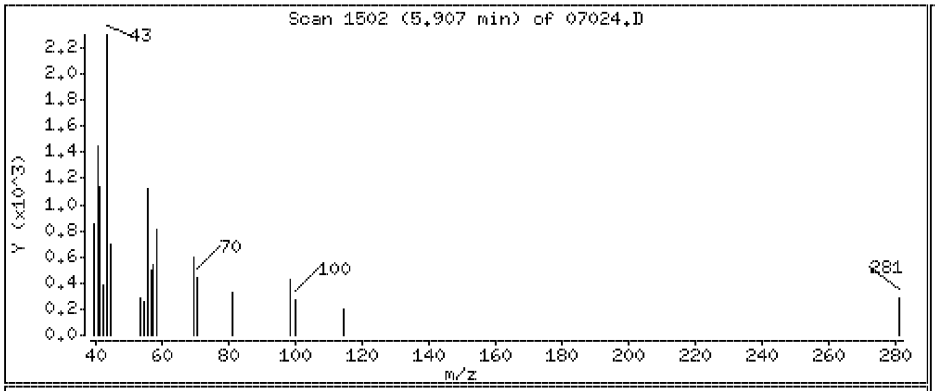
Operator: DR1

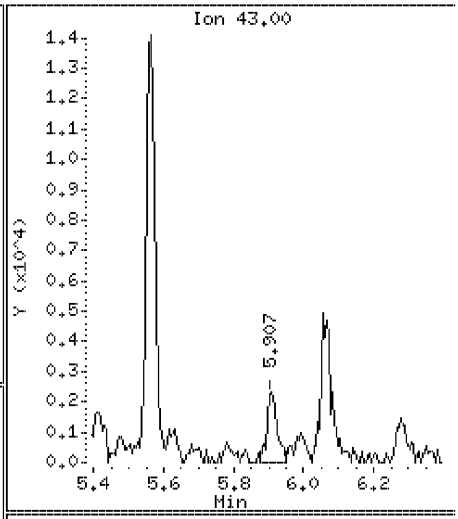
Column phase: J&W DB-5

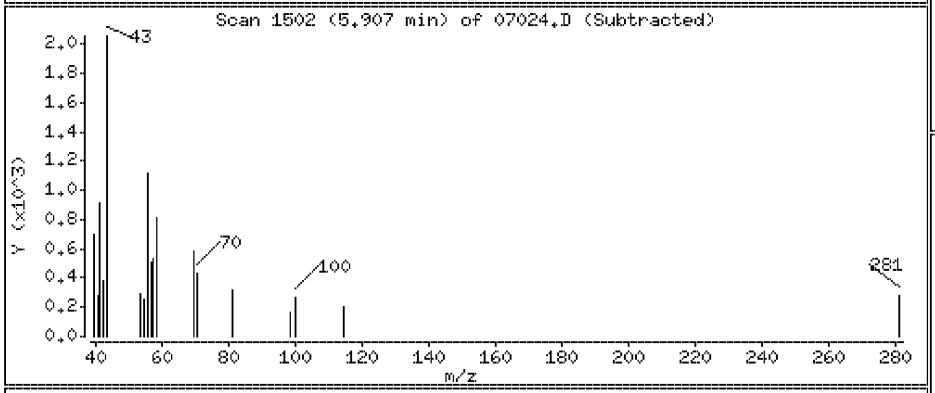
Column diameter: 0.32

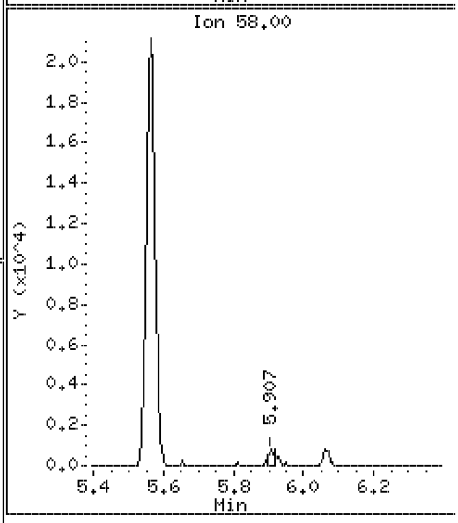
62 Methyl Butyl Ketone

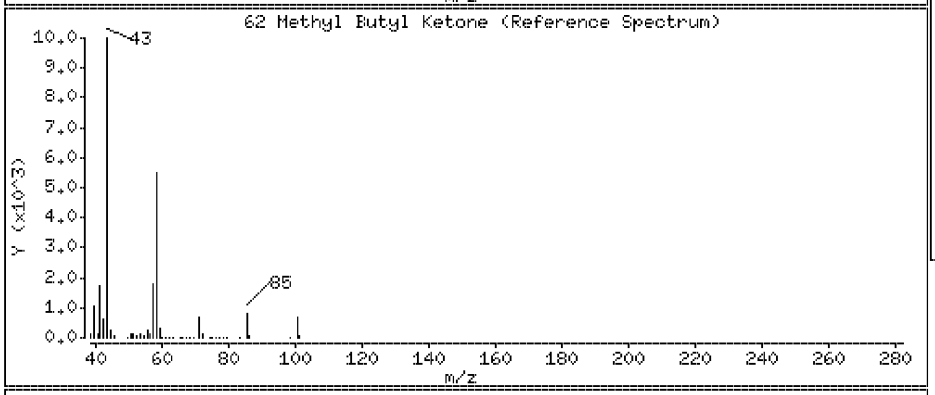
Concentration: 0.132 ppbv

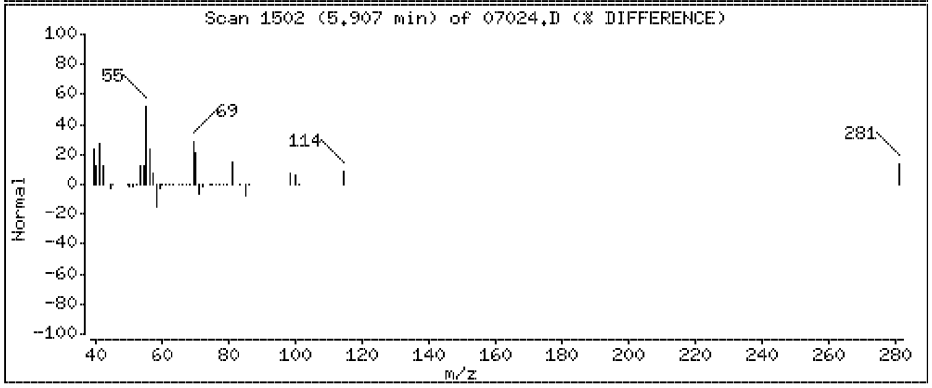












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

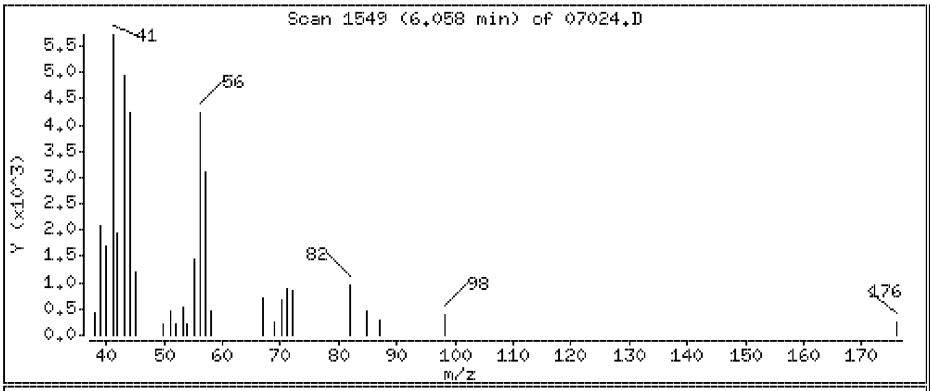
Operator: DR1

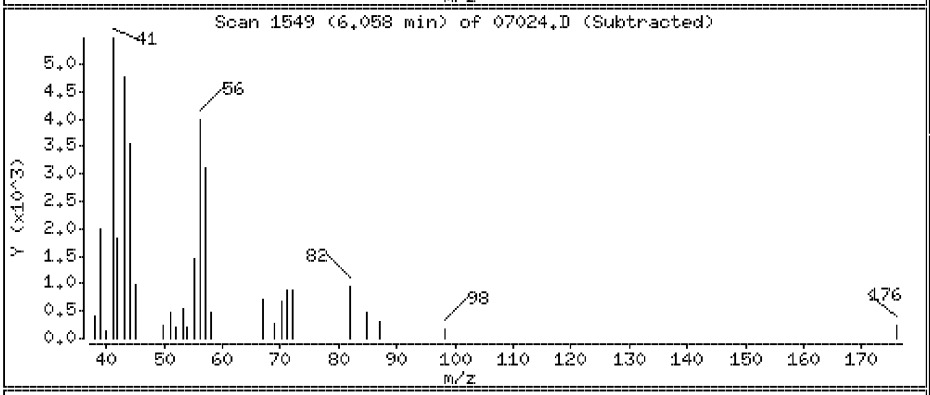
Column phase: J&W DB-5

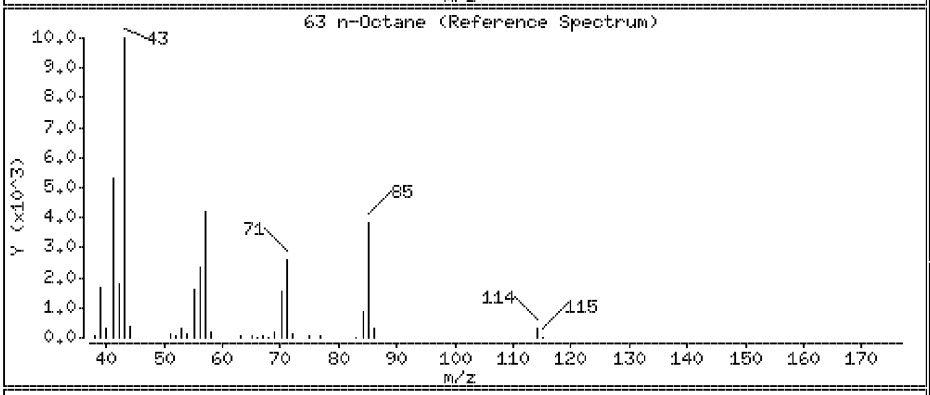
Column diameter: 0.32

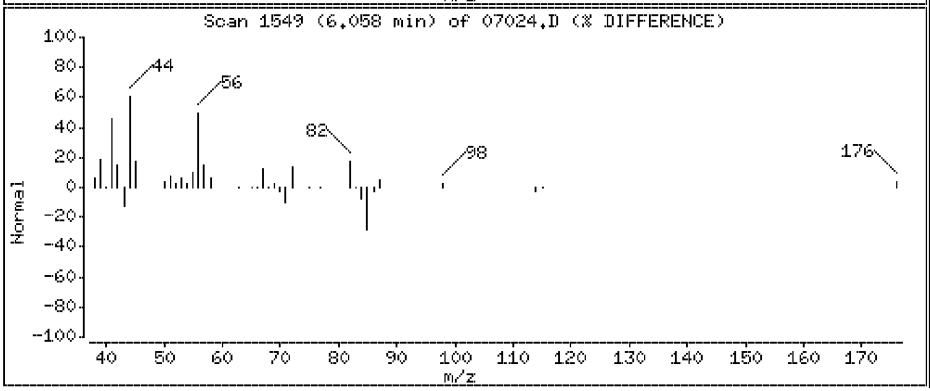
63 n-Octane

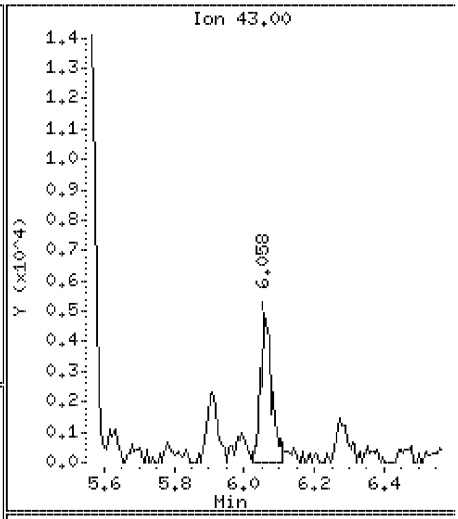
Concentration: 0.289 ppbv

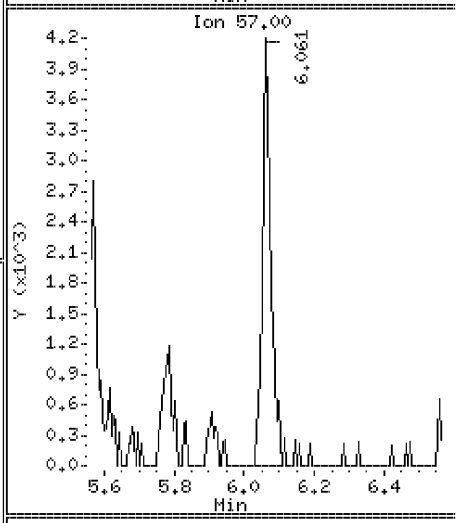


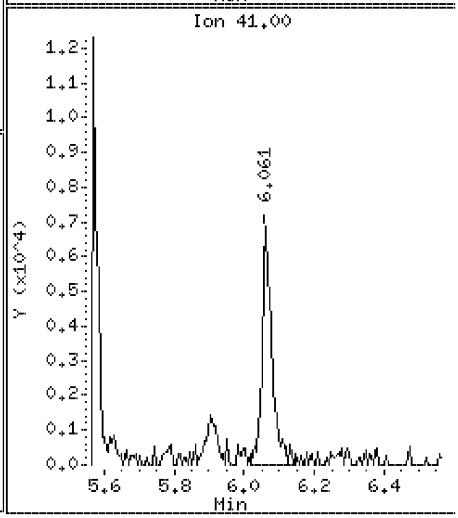












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

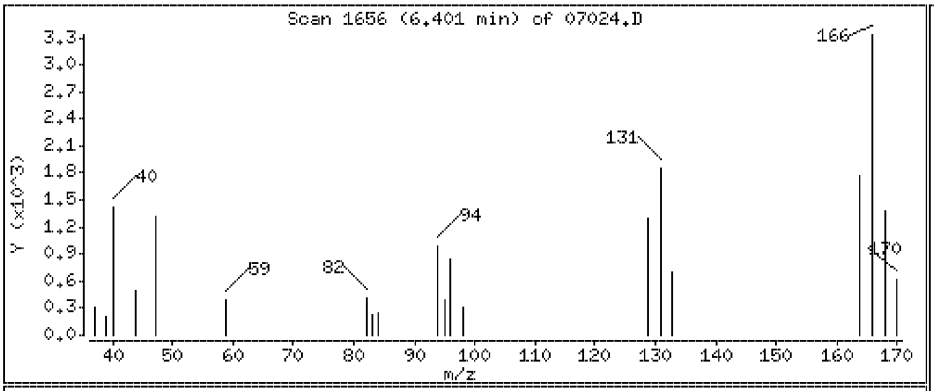
Operator: DR1

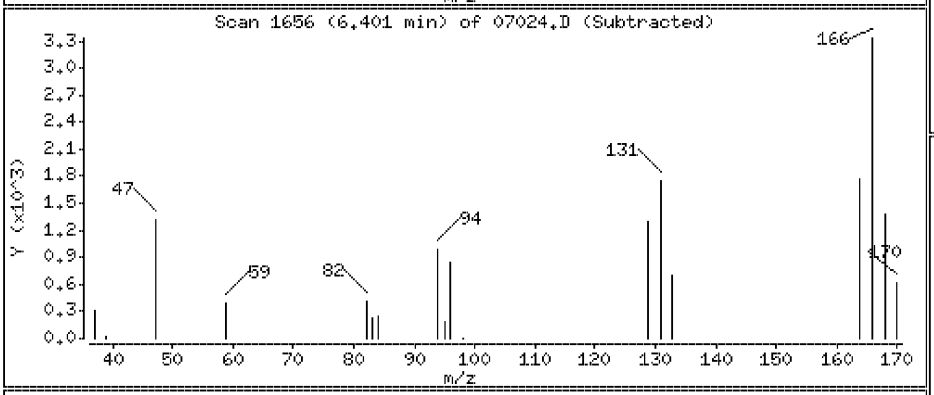
Column phase: J&W DB-5

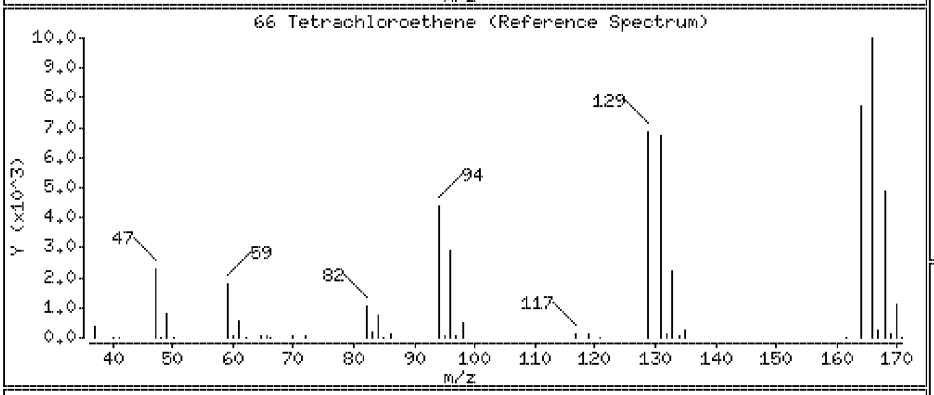
Column diameter: 0.32

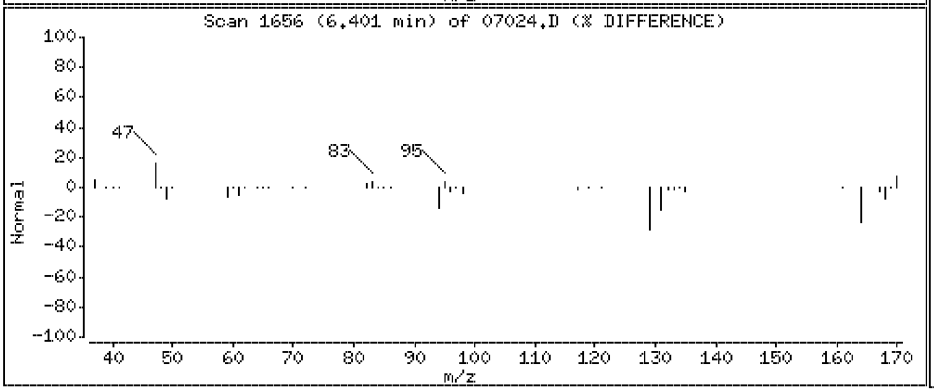
66 Tetrachloroethene

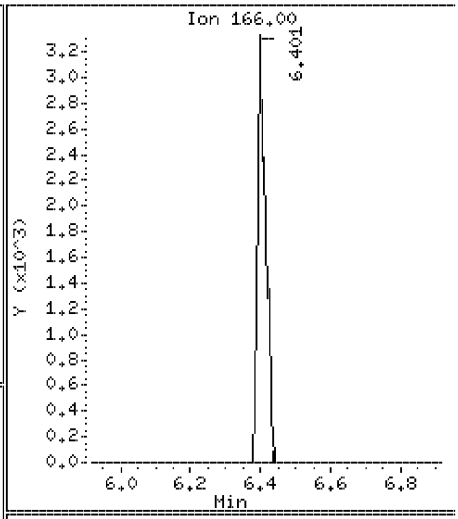
Concentration: 0.156 ppbv

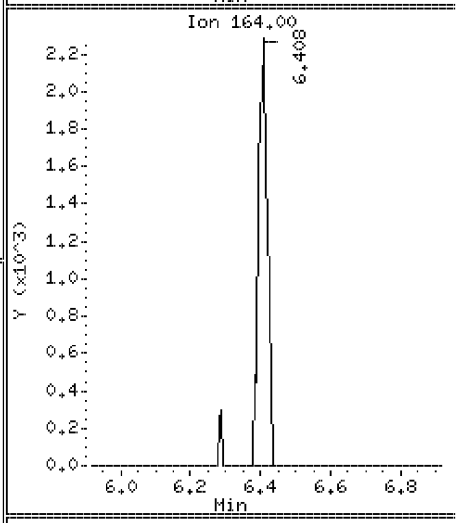


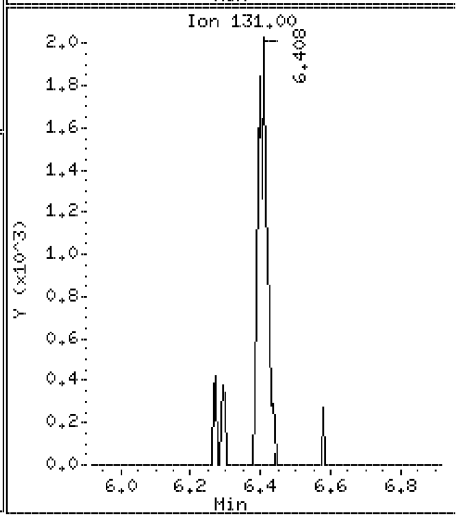












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

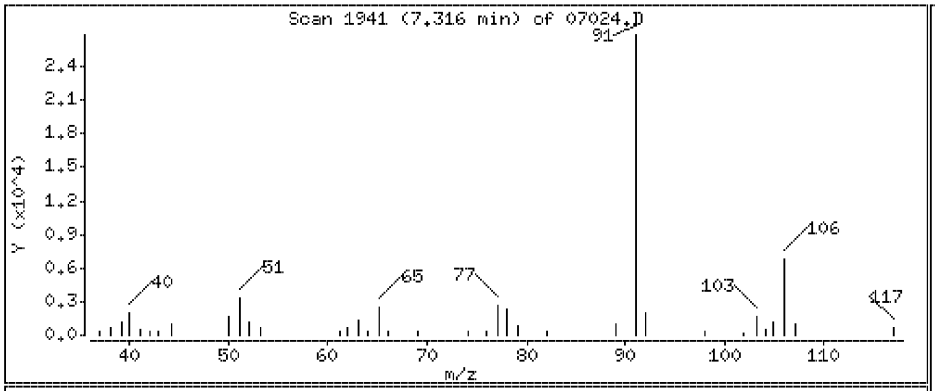
Operator: DR1

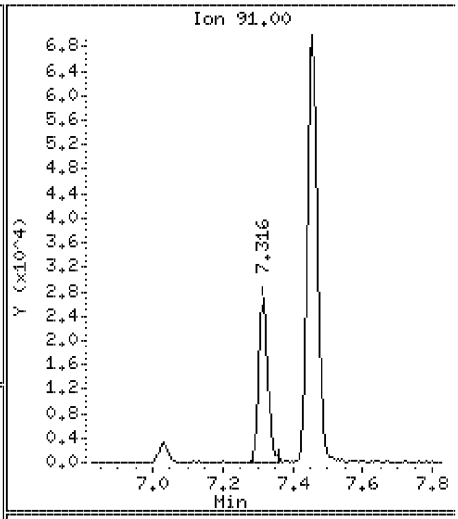
Column phase: J&W DB-5

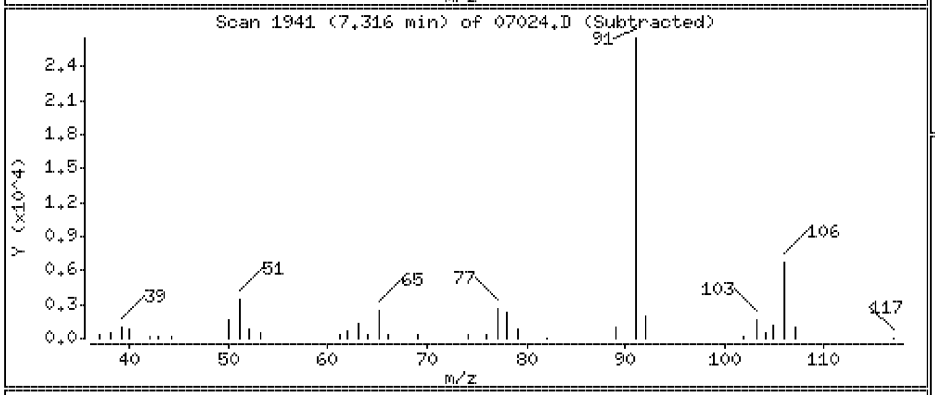
Column diameter: 0.32

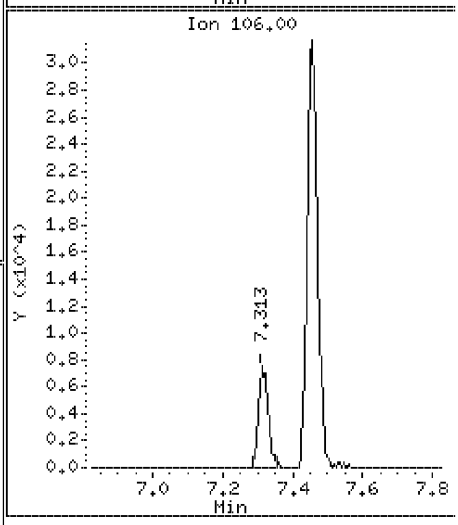
69 Ethyl Benzene

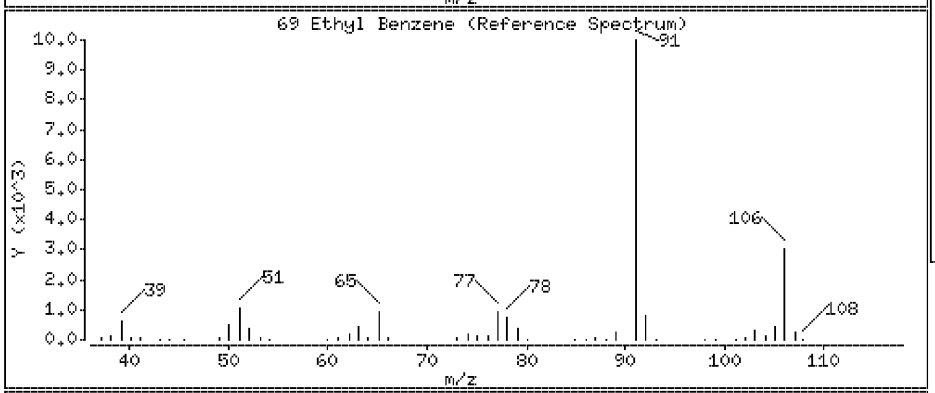
Concentration: 0.747 ppbv

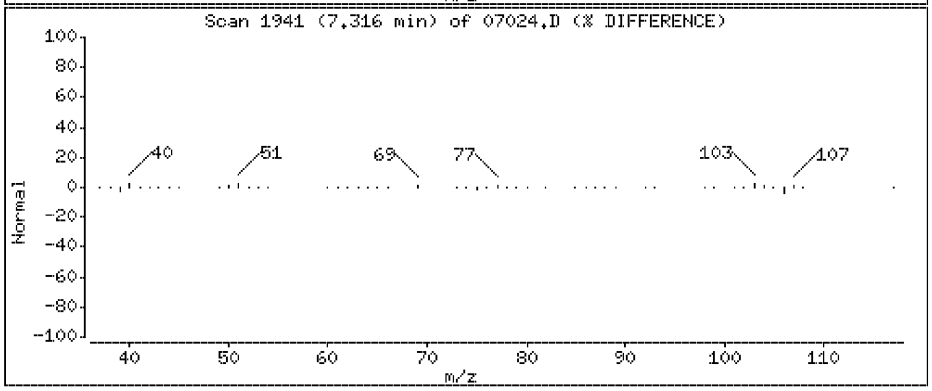












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

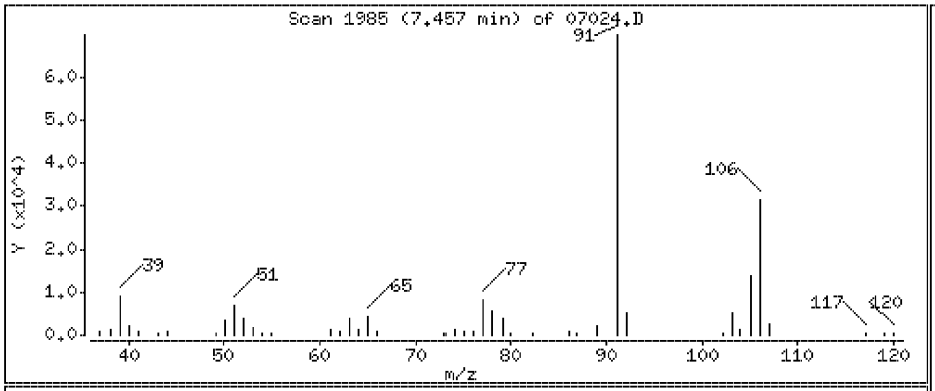
Operator: DR1

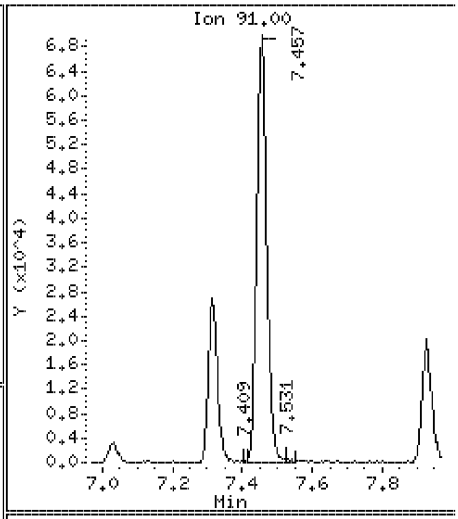
Column phase: J&W DB-5

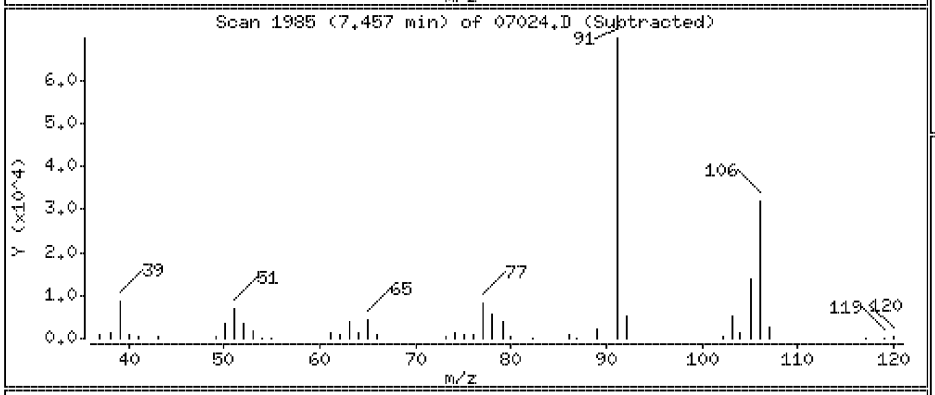
Column diameter: 0.32

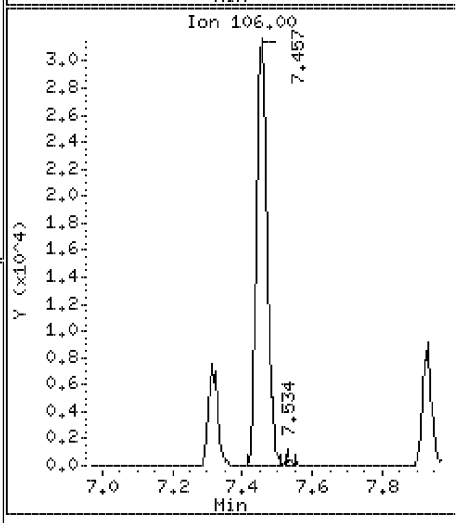
70 m&p-Xylene

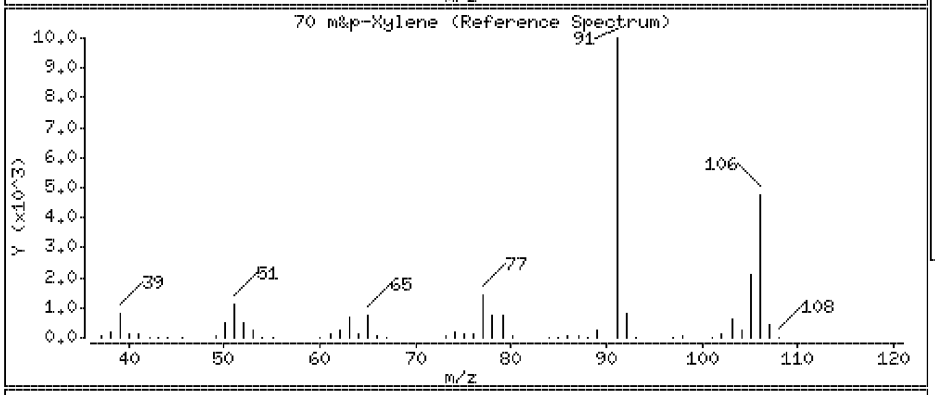
Concentration: 2.53 ppbv

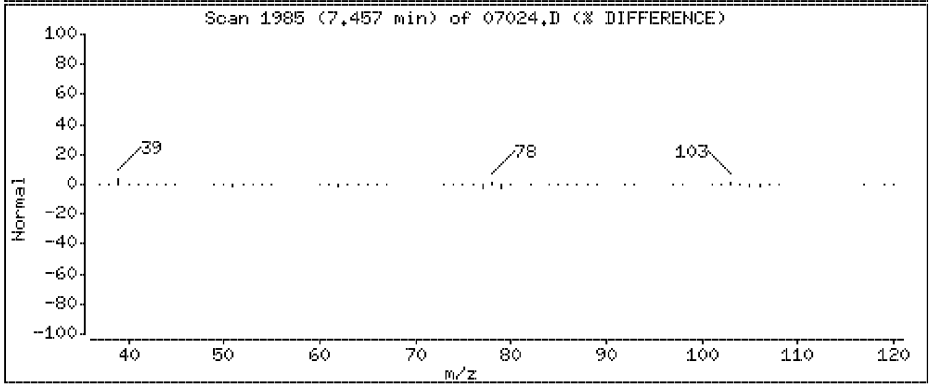












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

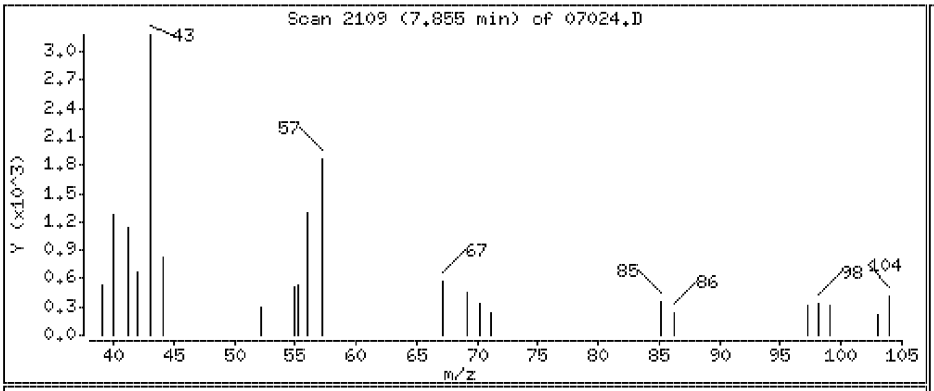
Operator: DR1

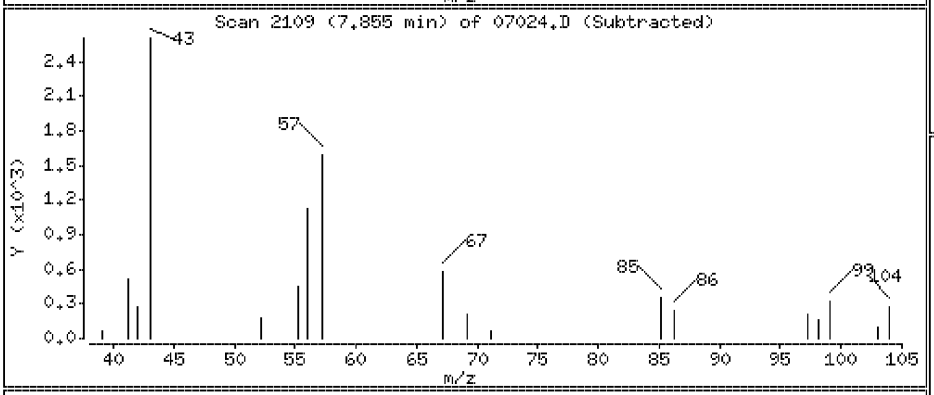
Column phase: J&W DB-5

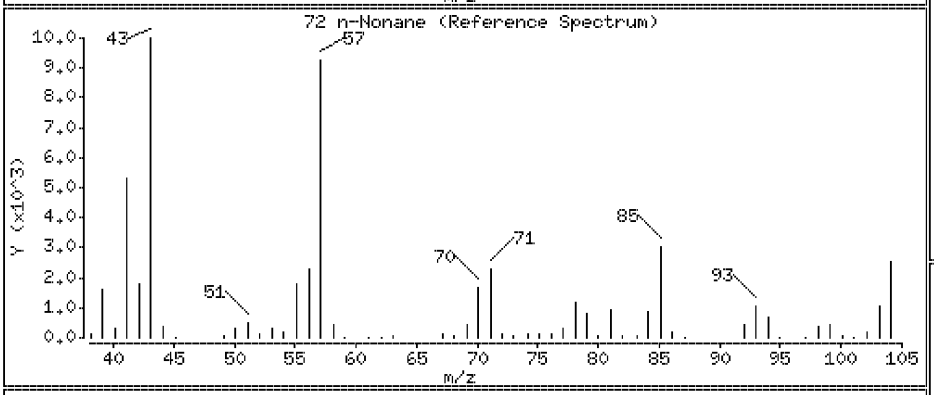
Column diameter: 0.32

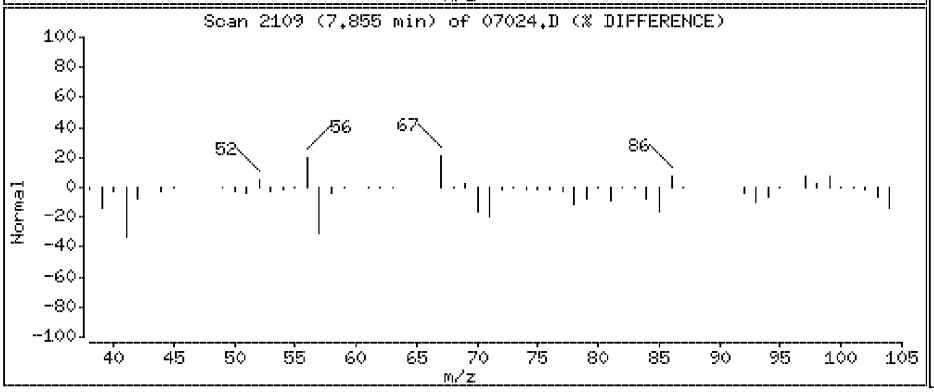
72 n-Nonane

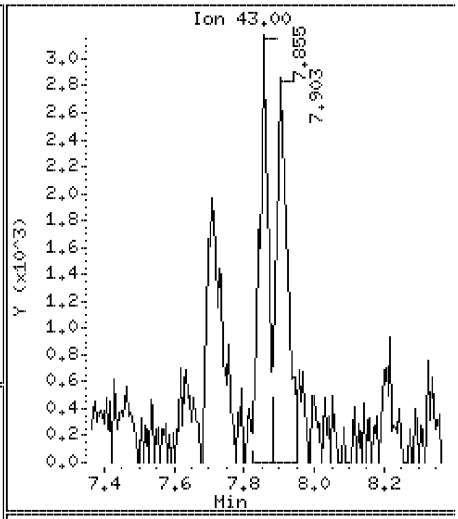
Concentration: 0.153 ppbv

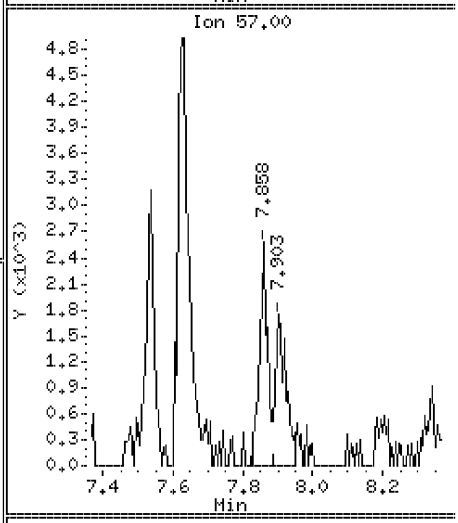


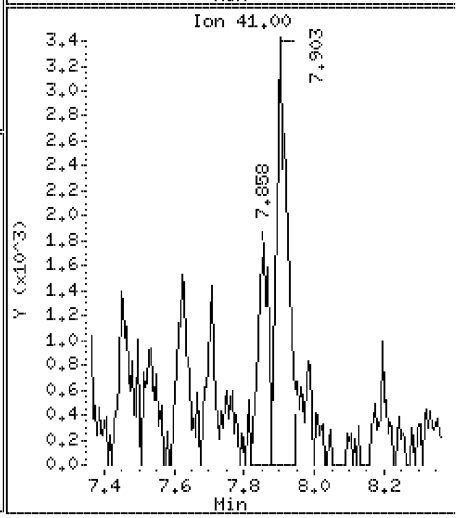












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

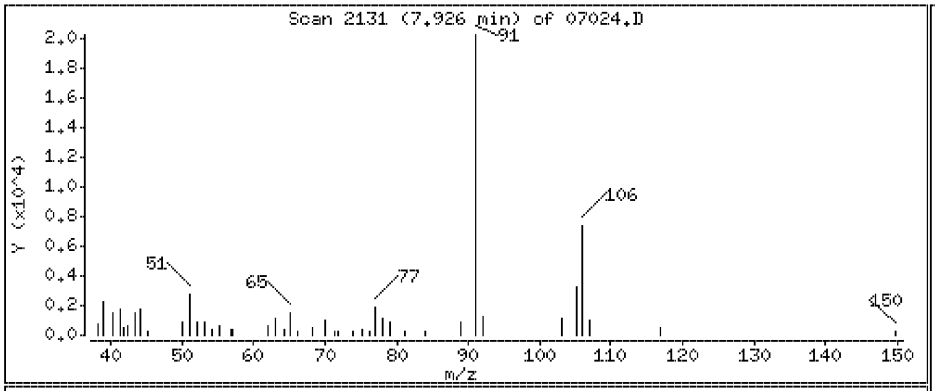
Operator: DR1

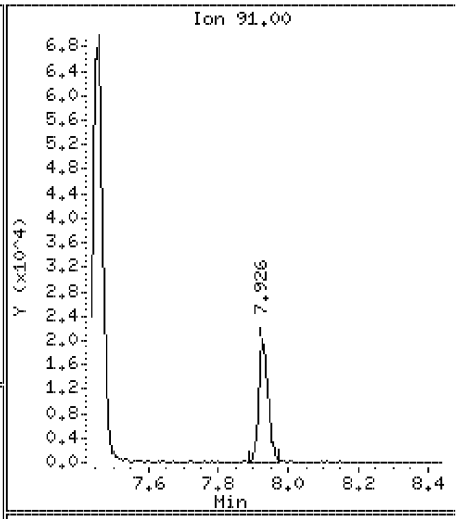
Column phase: J&W DB-5

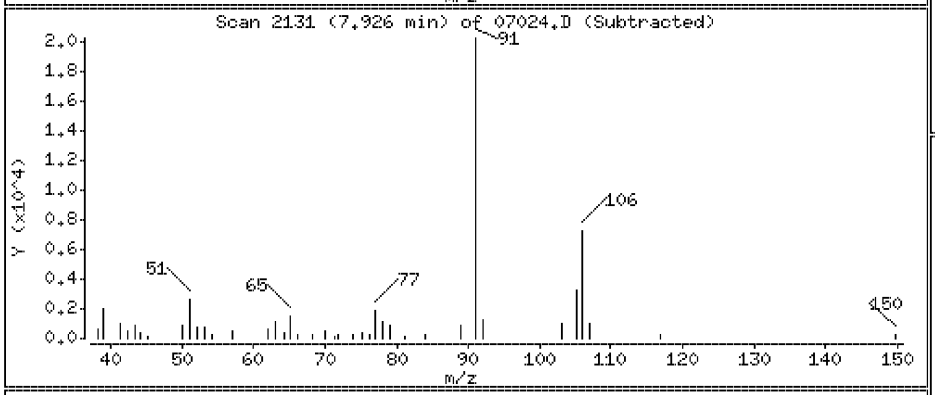
Column diameter: 0.32

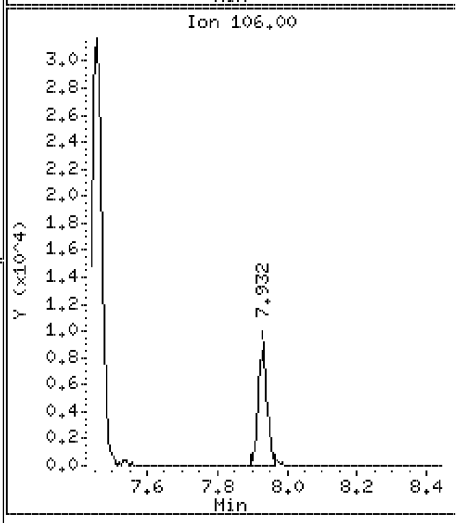
74 o-Xylene

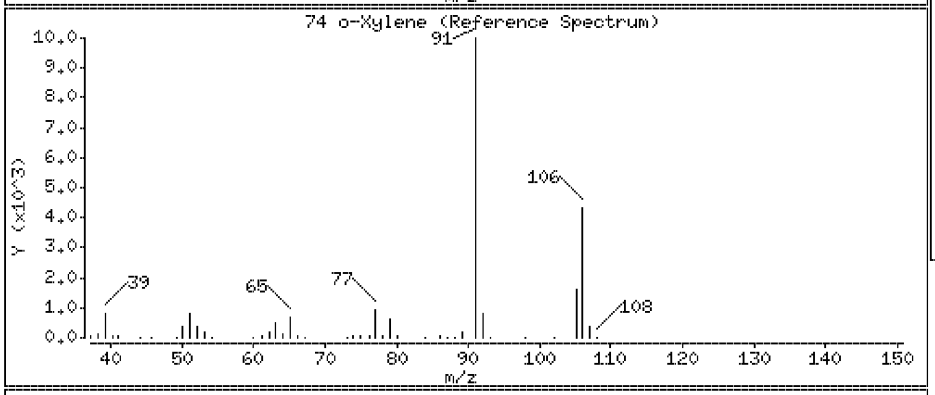
Concentration: 0.690 ppbv

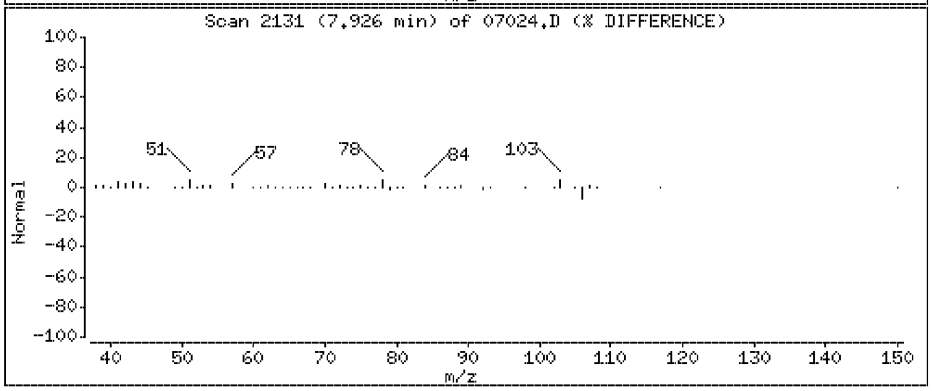












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

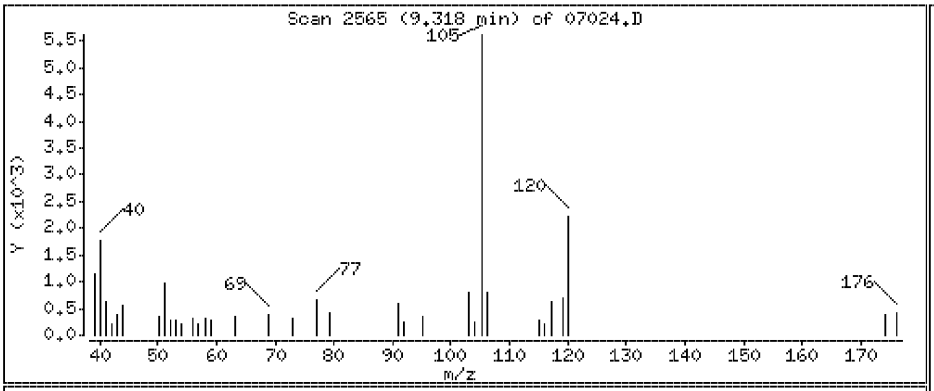
Operator: DR1

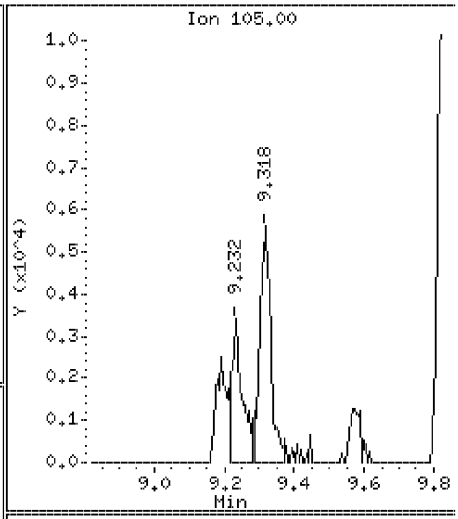
Column phase: J&W DB-5

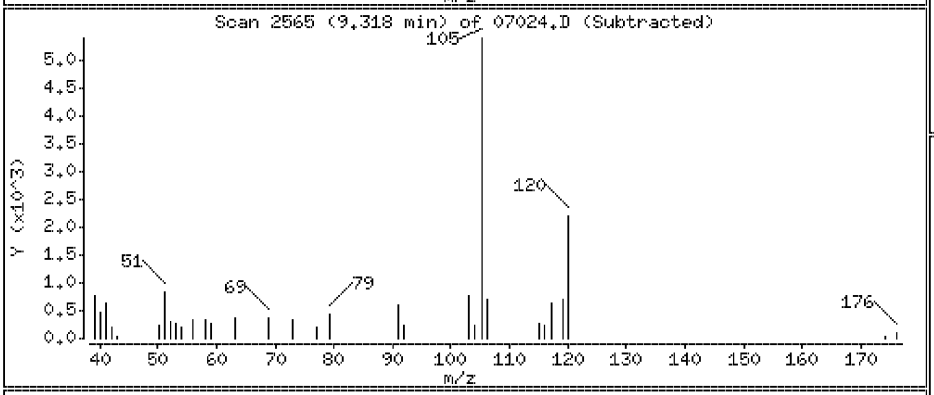
Column diameter: 0.32

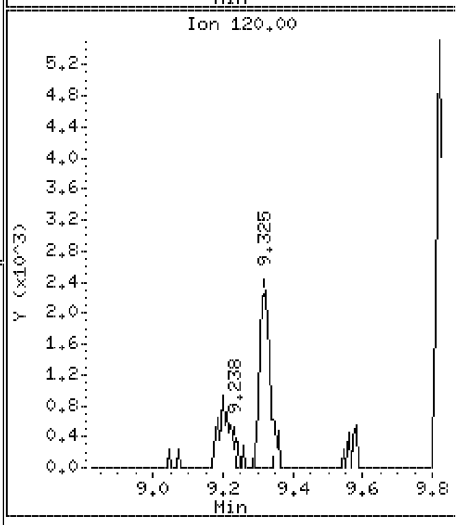
79 1,3,5-Trimethylbenzene

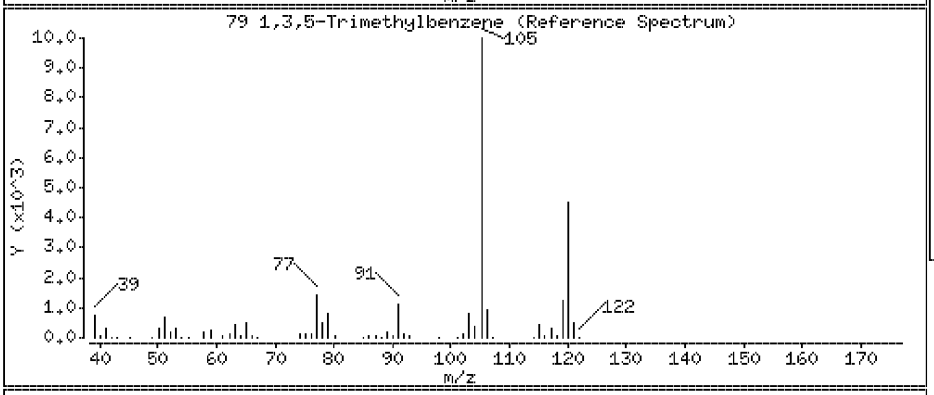
Concentration: 0.158 ppbv

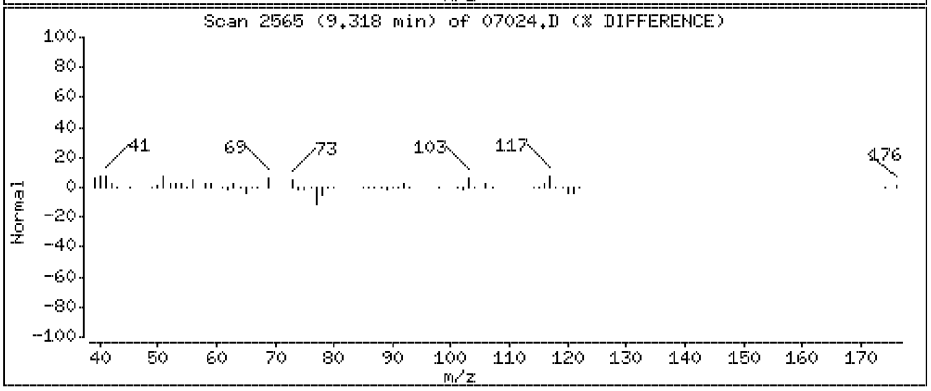












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

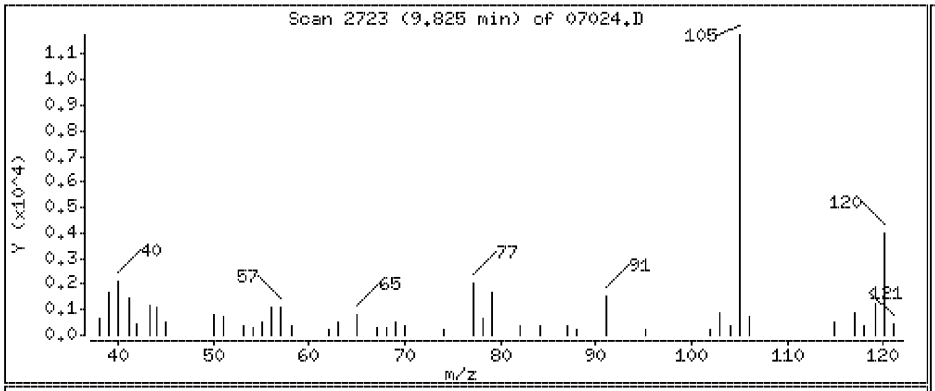
Operator: DR1

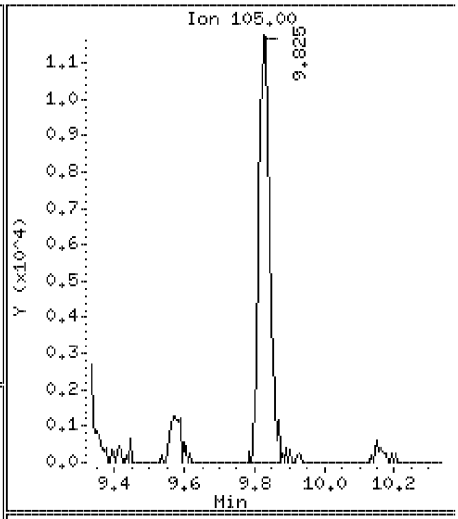
Column phase: J&W DB-5

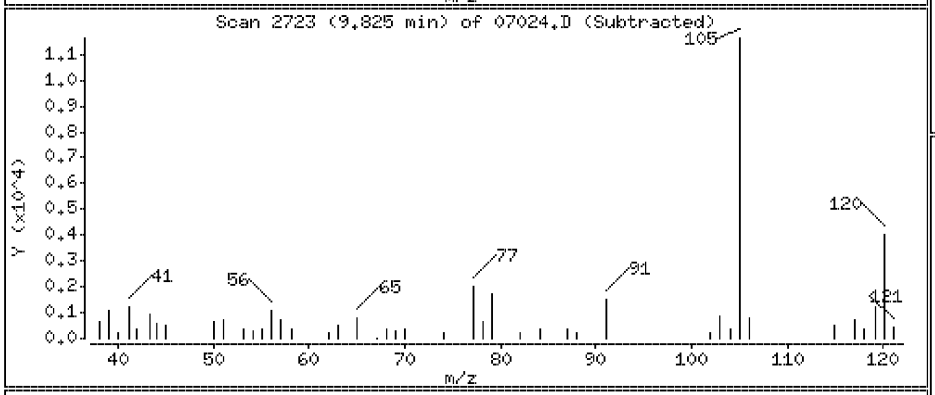
Column diameter: 0.32

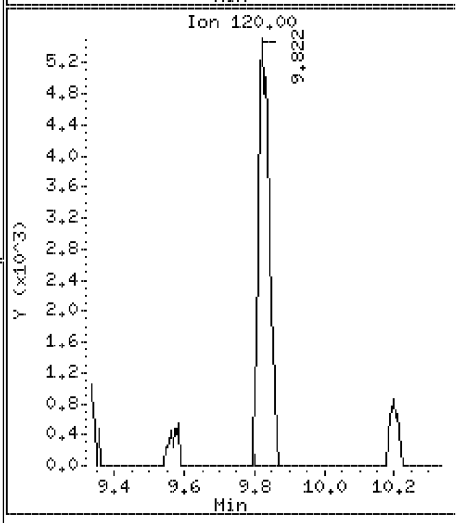
82 1,2,4-Trimethylbenzene

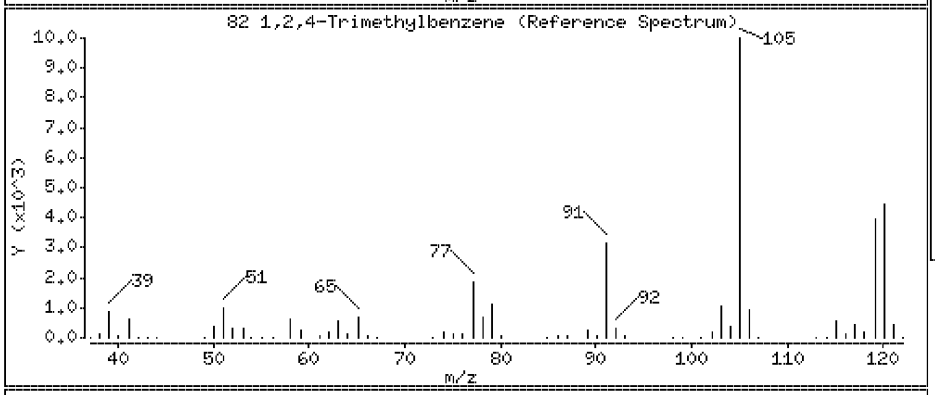
Concentration: 0.303 ppbv

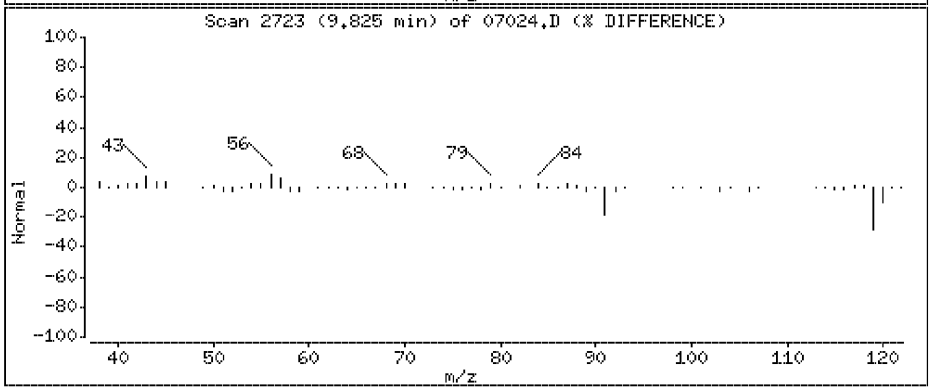












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07024.D

Date : 11-MAR-2017 22:22

Client ID:

Instrument: 10airD.i

Sample Info:

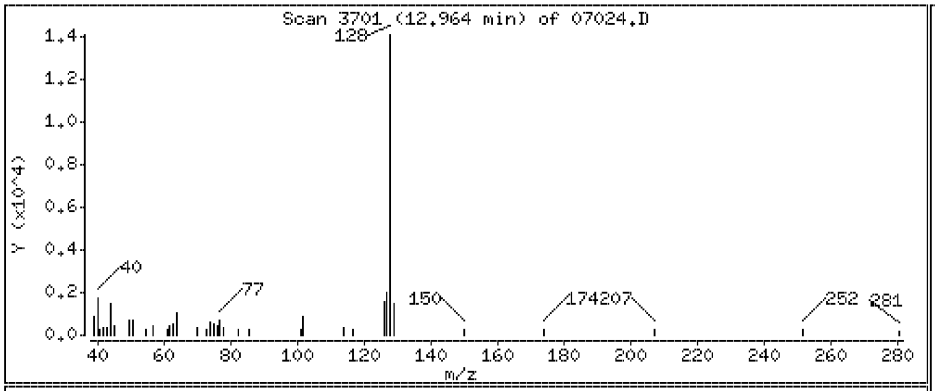
Operator: DR1

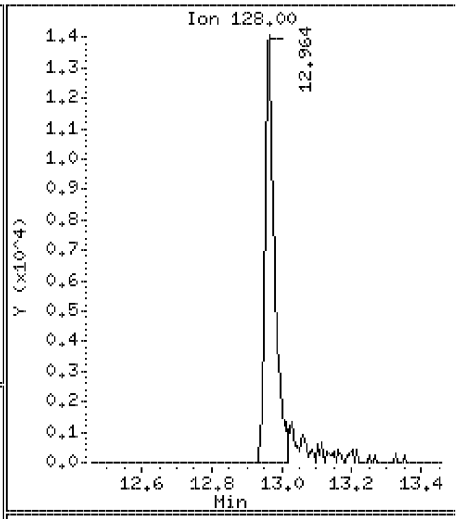
Column phase: J&W DB-5

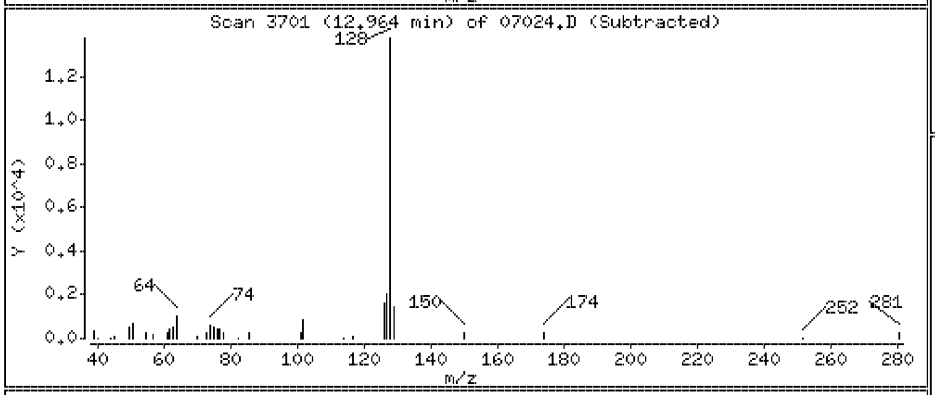
Column diameter: 0.32

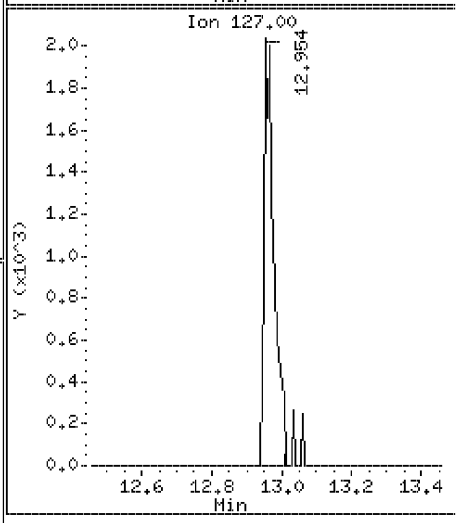
94 Naphthalene

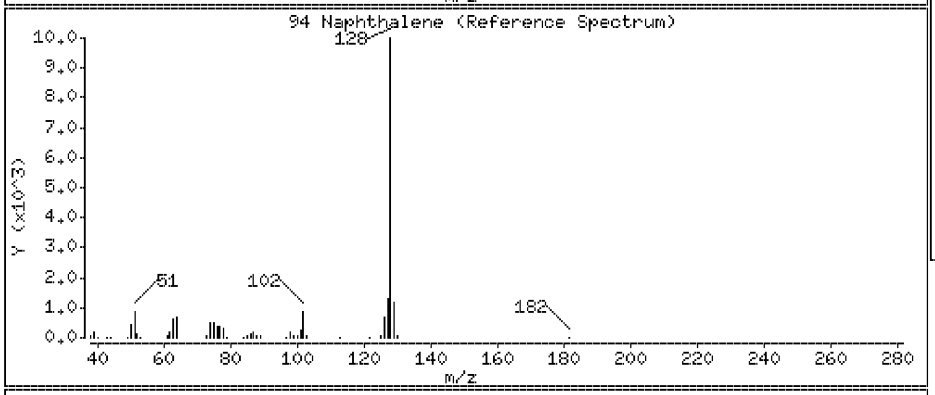
Concentration: 1.72 ppbv

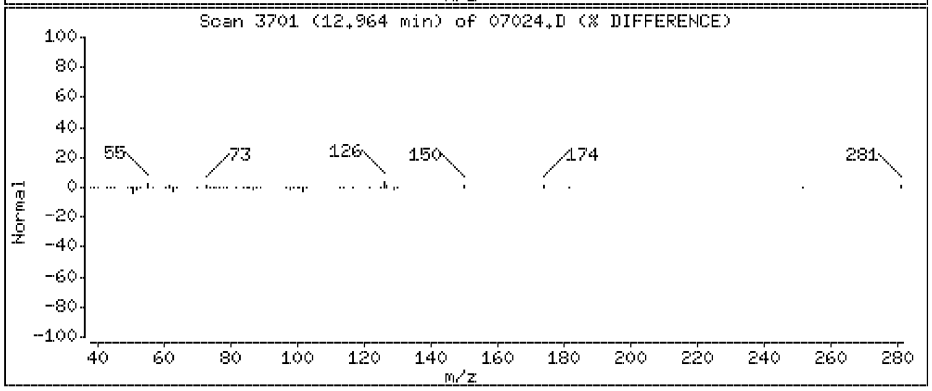






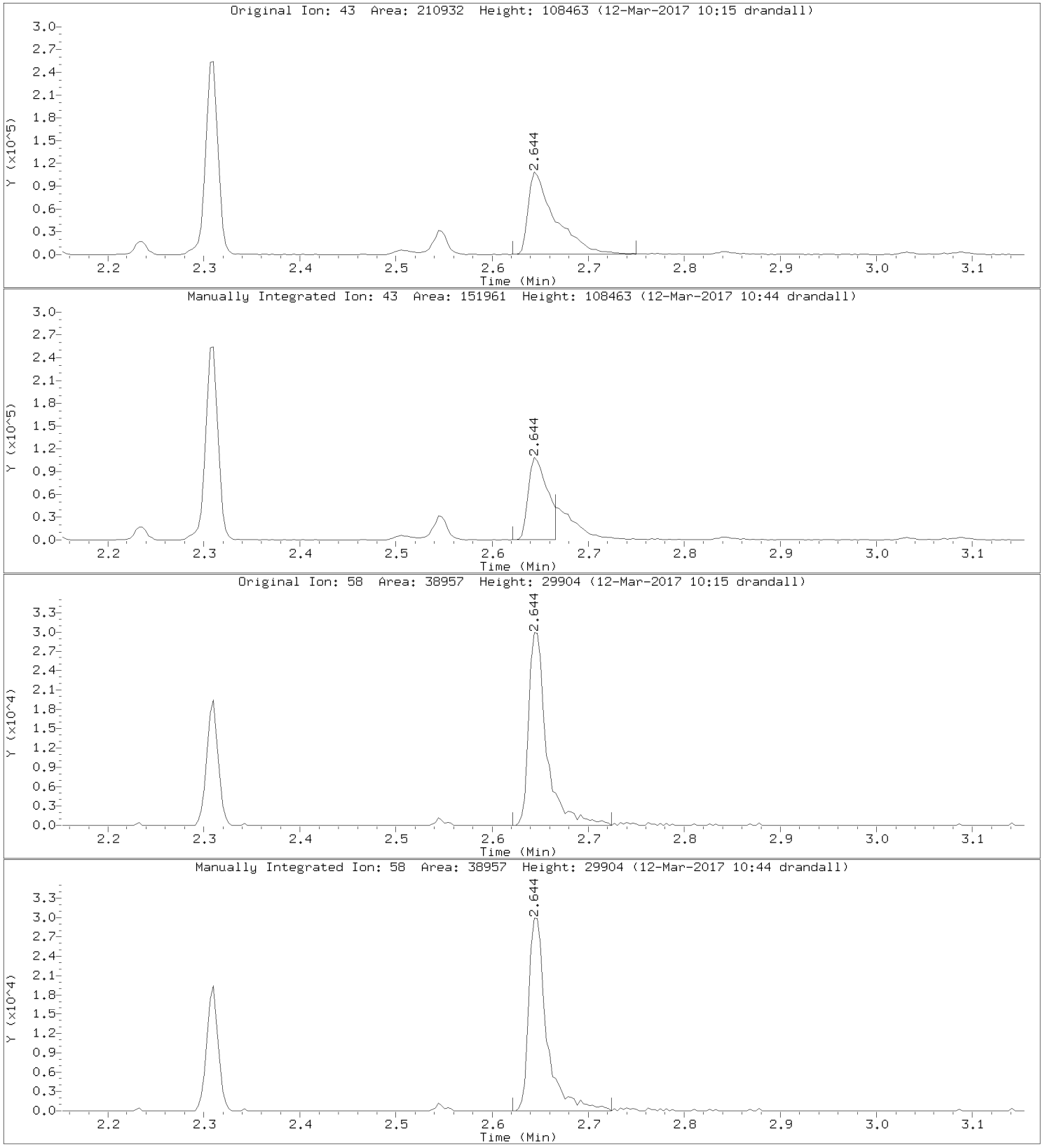






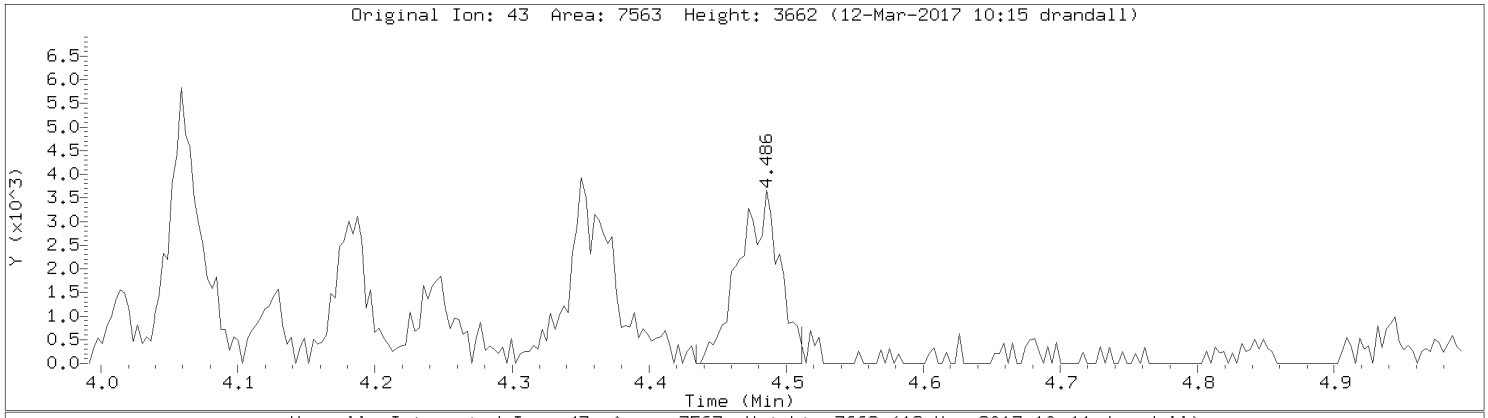
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07024.d
Injection Date: 11-MAR-2017 22:22
Instrument: 10airD.i
Lab Sample ID: 10380372016

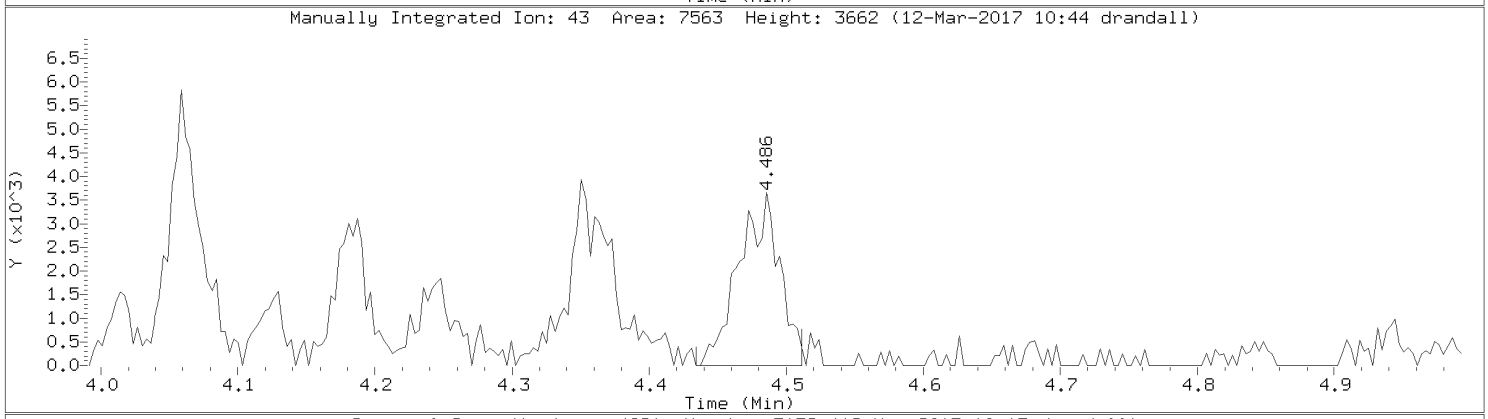
Compound: Acetone
CAS Number: 67-64-1

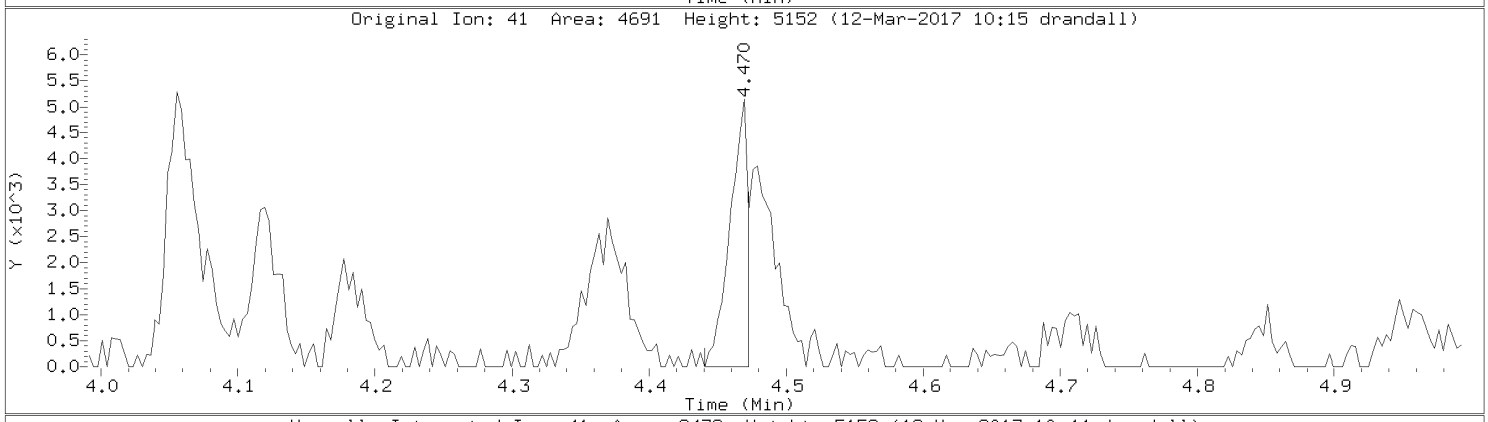


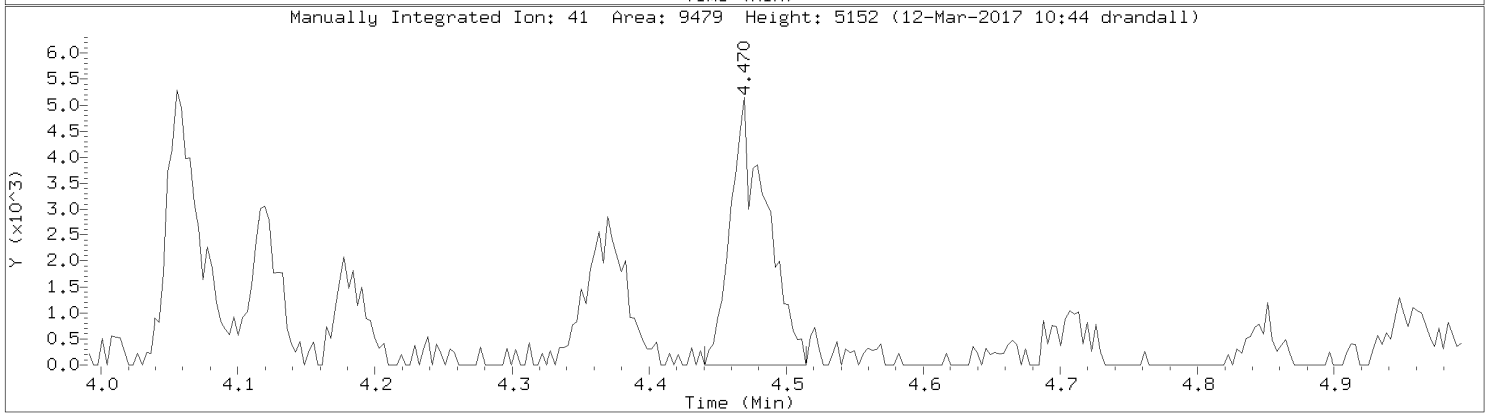
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07024.d
Injection Date: 11-MAR-2017 22:22
Instrument: 10airD.i
Lab Sample ID: 10380372016

Compound: Heptane
CAS Number: 142-82-5









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_20_20170226 **Lab ID: 10380372017** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**1.6U**	ug/m3	11.6	1.6	1.92		03/11/17 22:49	67-64-1	
Allyl chloride	**0.44U**	ug/m3	3.1	0.44	1.92		03/11/17 22:49	107-05-1	
Benzene	**0.84**	ug/m3	0.62	0.23	1.92		03/11/17 22:49	71-43-2	
Bromodichloromethane	**0.37U**	ug/m3	2.6	0.37	1.92		03/11/17 22:49	75-27-4	
Bromoform	**1.7U**	ug/m3	10.1	1.7	1.92		03/11/17 22:49	75-25-2	
Bromomethane	**0.60U**	ug/m3	1.5	0.60	1.92		03/11/17 22:49	74-83-9	
1,3-Butadiene	**0.34U**	ug/m3	0.86	0.34	1.92		03/11/17 22:49	106-99-0	
2-Butanone (MEK)	**0.44U**	ug/m3	5.8	0.44	1.92		03/11/17 22:49	78-93-3	
Carbon disulfide	**0.19U**	ug/m3	1.2	0.19	1.92		03/11/17 22:49	75-15-0	
Carbon tetrachloride	**0.37U**	ug/m3	1.2	0.37	1.92		03/11/17 22:49	56-23-5	
Chlorobenzene	**0.26U**	ug/m3	1.8	0.26	1.92		03/11/17 22:49	108-90-7	
Chlorodifluoromethane	**0.53U**	ug/m3	1.4	0.53	1.92		03/11/17 22:49	75-45-6	
Chloroethane	**0.37U**	ug/m3	1.0	0.37	1.92		03/11/17 22:49	75-00-3	
Chloroform	**12.0**	ug/m3	0.95	0.36	1.92		03/11/17 22:49	67-66-3	
Chloromethane	**0.21U**	ug/m3	0.81	0.21	1.92		03/11/17 22:49	74-87-3	
Chloropentafluoroethane	**6.2U**	ug/m3	6.2	6.2	1.92		03/11/17 22:49	76-15-3	CL
Cyclohexane	**0.61U**	ug/m3	1.3	0.61	1.92		03/11/17 22:49	110-82-7	
1,2-Dibromo-3-chloropropane	**9.4U**	ug/m3	9.4	9.4	1.92		03/11/17 22:49	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.3	1.6	1.92		03/11/17 22:49	124-48-1	
1,2-Dibromoethane (EDB)	**1.5U**	ug/m3	3.0	1.5	1.92		03/11/17 22:49	106-93-4	
1,2-Dichlorobenzene	**0.98U**	ug/m3	2.3	0.98	1.92		03/11/17 22:49	95-50-1	
1,3-Dichlorobenzene	**1.0U**	ug/m3	2.3	1.0	1.92		03/11/17 22:49	541-73-1	
1,4-Dichlorobenzene	**0.96U**	ug/m3	2.3	0.96	1.92		03/11/17 22:49	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.9	0.92	1.92		03/11/17 22:49	75-71-8	
1,1-Dichloroethane	**0.30U**	ug/m3	1.6	0.30	1.92		03/11/17 22:49	75-34-3	
1,2-Dichloroethane	**0.39U**	ug/m3	0.79	0.39	1.92		03/11/17 22:49	107-06-2	
1,1-Dichloroethene	**0.46U**	ug/m3	1.6	0.46	1.92		03/11/17 22:49	75-35-4	
cis-1,2-Dichloroethene	**156**	ug/m3	1.6	0.47	1.92		03/11/17 22:49	156-59-2	
trans-1,2-Dichloroethene	**3.8**	ug/m3	1.6	0.74	1.92		03/11/17 22:49	156-60-5	
1,2-Dichloropropane	**0.52U**	ug/m3	1.8	0.52	1.92		03/11/17 22:49	78-87-5	
cis-1,3-Dichloropropene	**0.71U**	ug/m3	1.8	0.71	1.92		03/11/17 22:49	10061-01-5	
trans-1,3-Dichloropropene	**0.50U**	ug/m3	1.8	0.50	1.92		03/11/17 22:49	10061-02-6	
Dichlorotetrafluoroethane	**0.60U**	ug/m3	2.7	0.60	1.92		03/11/17 22:49	76-14-2	
Freon 123	**6.1U**	ug/m3	6.1	6.1	1.92		03/11/17 22:49	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.68U**	ug/m3	7.0	0.68	1.92		03/11/17 22:49	123-91-1	
Ethylbenzene	**0.82U**	ug/m3	1.7	0.82	1.92		03/11/17 22:49	100-41-4	
4-Ethyltoluene	**0.36U**	ug/m3	1.9	0.36	1.92		03/11/17 22:49	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.2	1.2	1.92		03/11/17 22:49	87-68-3	
n-Hexane	**0.95J**	ug/m3	1.4	0.69	1.92		03/11/17 22:49	110-54-3	
2-Hexanone	**0.79U**	ug/m3	8.0	0.79	1.92		03/11/17 22:49	591-78-6	
Isopropylbenzene (Cumene)	**0.26U**	ug/m3	4.8	0.26	1.92		03/11/17 22:49	98-82-8	
Methyl acetate	**3.0U**	ug/m3	3.0	3.0	1.92		03/11/17 22:49	79-20-9	
Methylcyclohexane	**0.46U**	ug/m3	1.6	0.46	1.92		03/11/17 22:49	108-87-2	
Methylene Chloride	**2.8J**	ug/m3	6.8	1.0	1.92		03/11/17 22:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.42U**	ug/m3	8.0	0.42	1.92		03/11/17 22:49	108-10-1	
Methyl-tert-butyl ether	**0.58U**	ug/m3	7.0	0.58	1.92		03/11/17 22:49	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.d
Report Date: 12-Mar-2017 10:46

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07025.d
Lab Smp Id: 10380372017
Inj Date : 11-MAR-2017 22:49
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 25
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.114	2.126	(0.498)	53731	3.36442	6.46(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.165	(0.506)	20956	0.29063	0.558	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	2.515	2.521	(0.592)	7271	1.44404	2.77	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	2.595	2.614	(0.611)	17361	0.23016	0.442	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	2.685	2.688	(0.632)	22546	0.88249	1.69(QM)	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	2.817	2.829	(0.663)	197738	3.34367	6.42	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.d
Report Date: 12-Mar-2017 10:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
25	Methylene chloride	49	2.861	2.871	(0.674)	25166	0.41720	0.801	
26	Allyl Chloride	76	Compound Not Detected.						
27	Carbon Disulfide	76	Compound Not Detected.						(D)
28	trans-1,2-dichloroethene	96	3.080	3.086	(0.725)	10454	0.48938	0.940(Q)	
29	Methyl Tert Butyl Ether	73	Compound Not Detected.						
30	Vinyl Acetate	43	Compound Not Detected.						(D)
31	1,1-Dichloroethane	63	Compound Not Detected.						(D)
$ 32	Hexane-d14(S)	66	3.266	3.275	(0.769)	1552950	8.91928	8.92	
33	Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
34	n-Hexane	57	3.346	3.352	(0.788)	5208	0.13814	0.265(Q)	
35	Di-isopropyl Ether	45	Compound Not Detected.						
36	cis-1,2-Dichloroethene	96	3.455	3.465	(0.813)	488484	20.1878	38.8	
37	Ethyl Acetate	43	Compound Not Detected.						(D)
38	Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
39	Chloroform	83	3.555	3.558	(0.837)	76646	1.25429	2.41(H)	
40	Tetrahydrofuran	42	Compound Not Detected.						
41	1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
42	1,2-Dichloroethane	62	Compound Not Detected.						
43	Benzene	78	4.100	4.100	(0.965)	9678	0.13410	0.257	
45	Carbon tetrachloride	117	Compound Not Detected.						(D)
44	Cyclohexane	56	Compound Not Detected.						(D)
46	Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
* 47	1,4-Difluorobenzene	114	4.248	4.247	(1.000)	3279655	10.0000		
48	2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
49	Heptane	43	Compound Not Detected.						(D)
50	1,2-Dichloropropane	63	Compound Not Detected.						(D)
51	Trichloroethene	130	4.575	4.568	(1.077)	4789705	120.902	232(A)	
52	Methyl methacrylate	69	Compound Not Detected.						(D)
53	Bromodichloromethane	83	Compound Not Detected.						(D)
54	1,4-Dioxane	88	Compound Not Detected.						
55	Methylcyclohexane	98	Compound Not Detected.						(D)
56	Methyl Isobutyl Ketone	43	Compound Not Detected.						
57	cis-1,3-Dichloropropene	75	Compound Not Detected.						
58	trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$ 59	Toluene-d8 (S)	98	5.567	5.563	(1.310)	3094210	9.41554	9.42	
60	Toluene	91	5.637	5.631	(1.327)	13421	0.13843	0.266	
61	1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
62	Methyl Butyl Ketone	43	Compound Not Detected.						
63	n-Octane	43	Compound Not Detected.						(D)
64	Dibromochloromethane	129	Compound Not Detected.						
65	1,2-Dibromoethane	107	Compound Not Detected.						
66	Tetrachloroethene	166	6.420	6.404	(0.913)	5827975	108.948	209(AQ)	
* 67	Chlorobenzene - d5	117	7.033	7.030	(1.000)	2419694	10.0000		
68	Chlorobenzene	112	Compound Not Detected.						
69	Ethyl Benzene	91	7.322	7.315	(1.041)	6991	0.06585	0.126	
70	m&p-Xylene	91	7.460	7.460	(1.061)	25598	0.17973	0.345	
71	Bromoform	173	Compound Not Detected.						
72	n-Nonane	43	Compound Not Detected.						
73	Styrene	104	Compound Not Detected.						
74	o-Xylene	91	7.932	7.928	(1.128)	9844	0.11247	0.216	
75	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
76	Isopropylbenzene	105	Compound Not Detected.						
77	N-Propylbenzene	91	Compound Not Detected.						
78	4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.d
Report Date: 12-Mar-2017 10:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.828	9.825	(1.397)	20551	0.13581	0.261	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.449)	1295511	8.73860	8.74	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.966	12.960	(1.844)	4778	0.18844	0.362	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.d
Report Date: 12-Mar-2017 10:46

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07025.d
Lab Smp Id: 10380372017
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

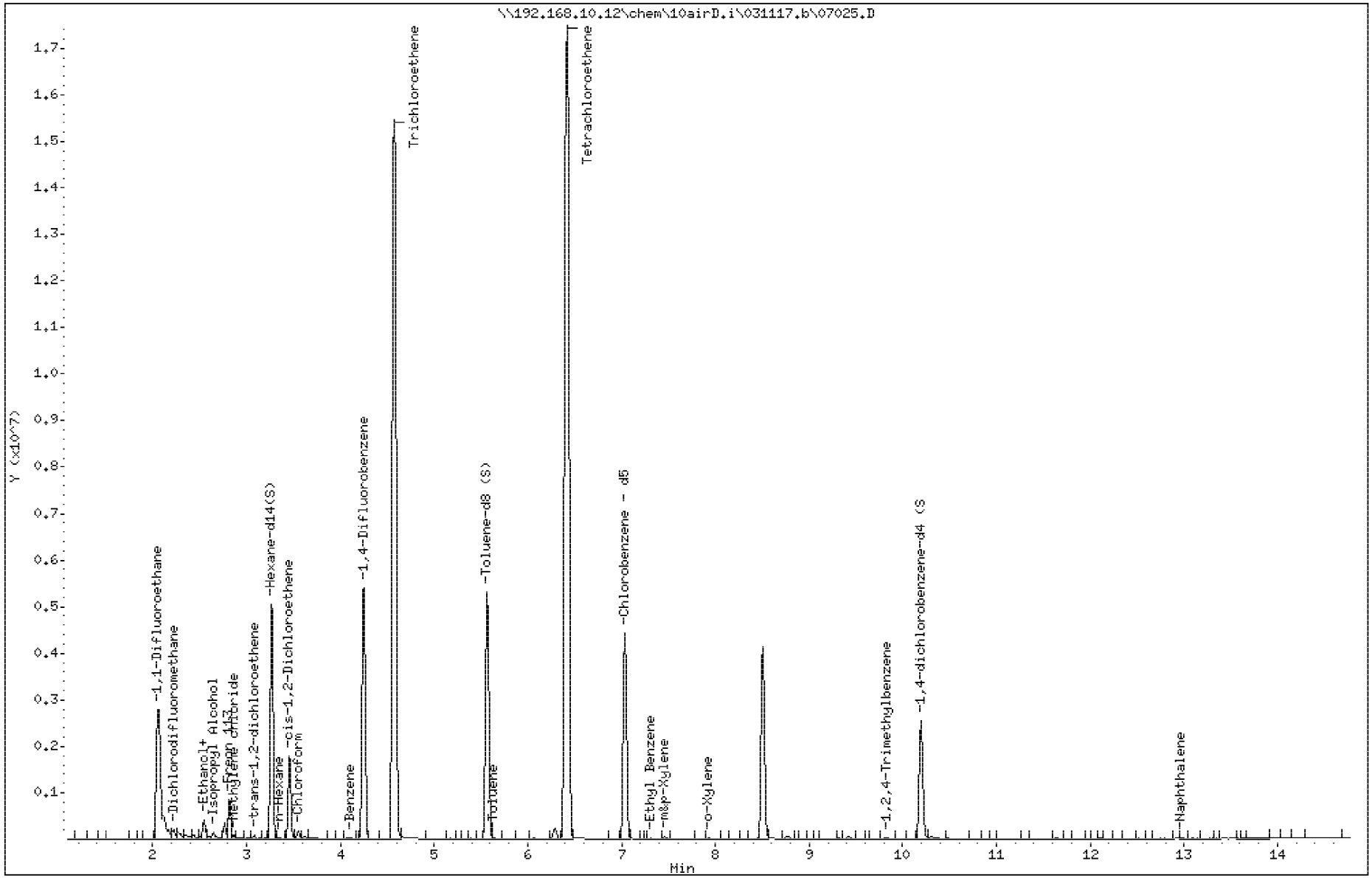
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3279655	-13.41
67 Chlorobenzene - d	3280875	1968525	4593225	2419694	-26.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	0.01
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D
Date : 11-MAR-2017 22:49
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

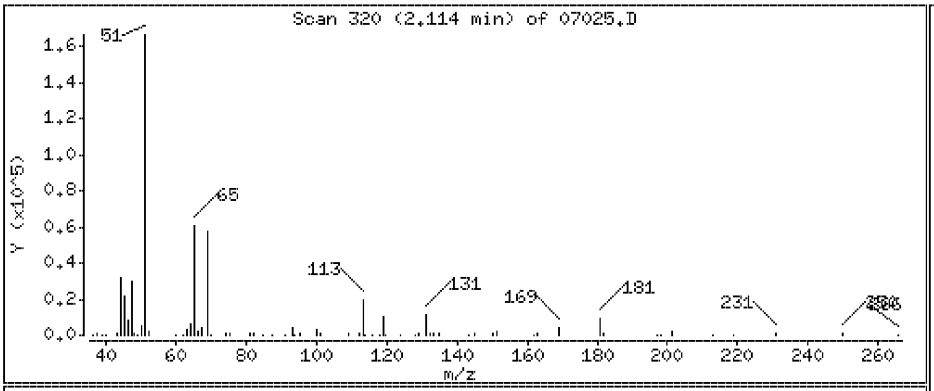
Operator: DR1

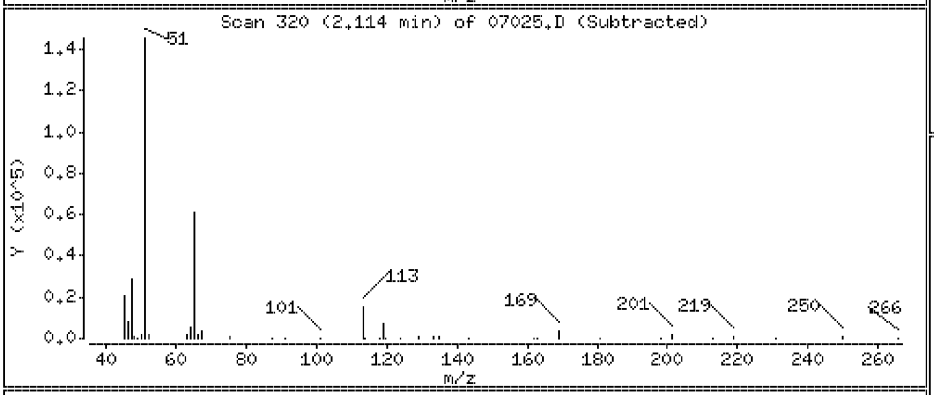
Column phase: J&W DB-5

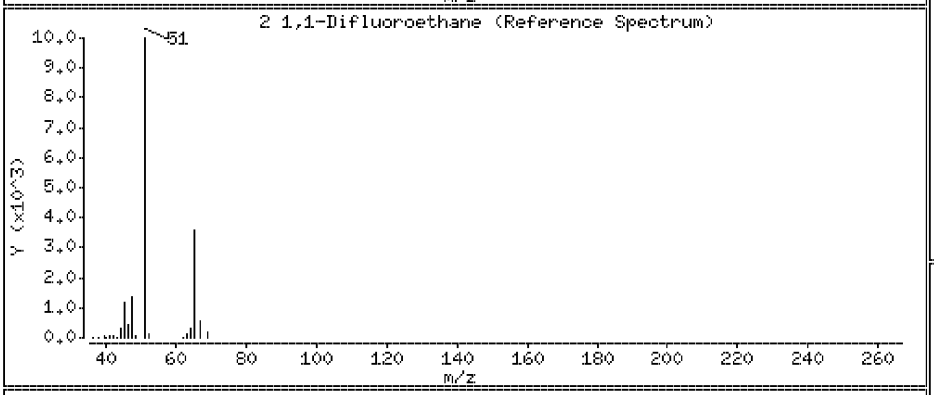
Column diameter: 0.32

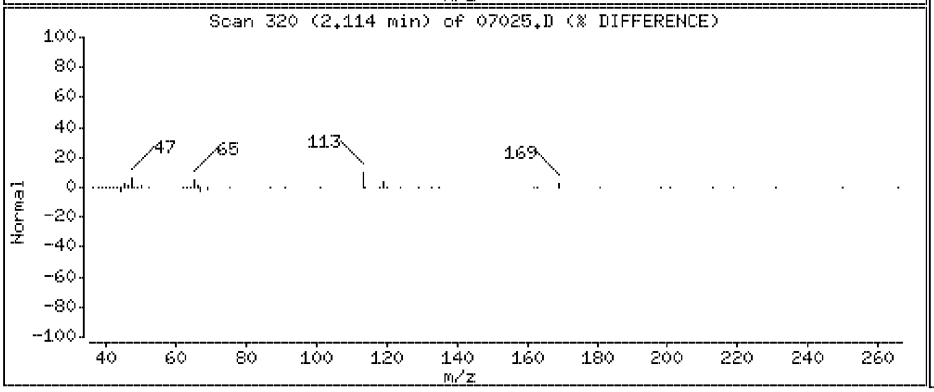
2 1,1-Difluoroethane

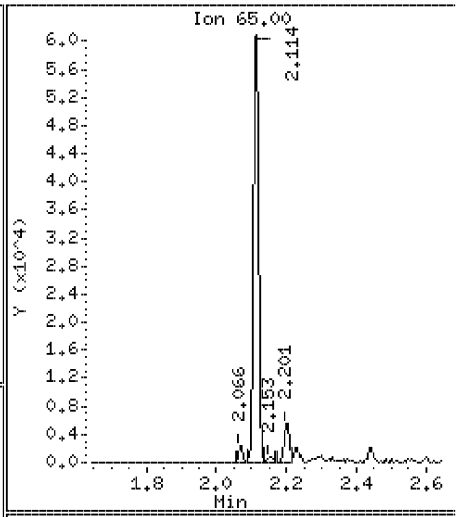
Concentration: 6.46 ppbv

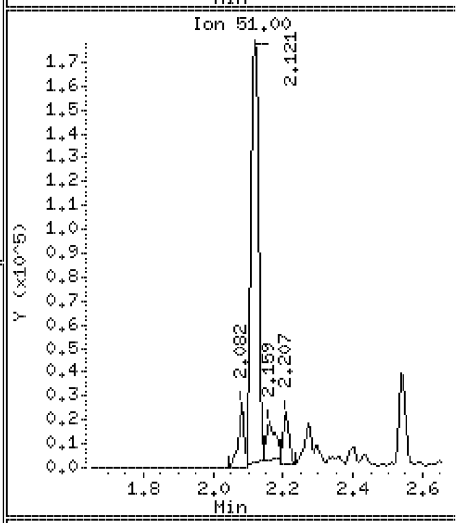


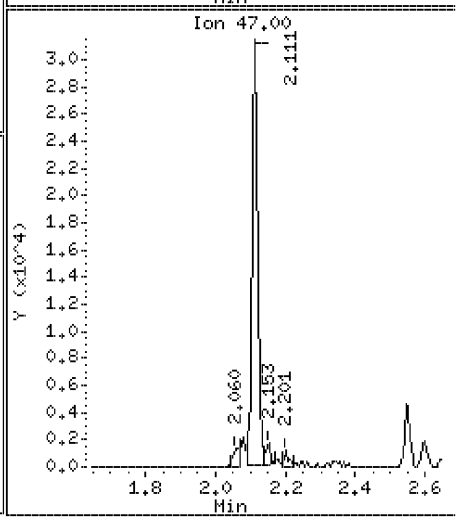












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

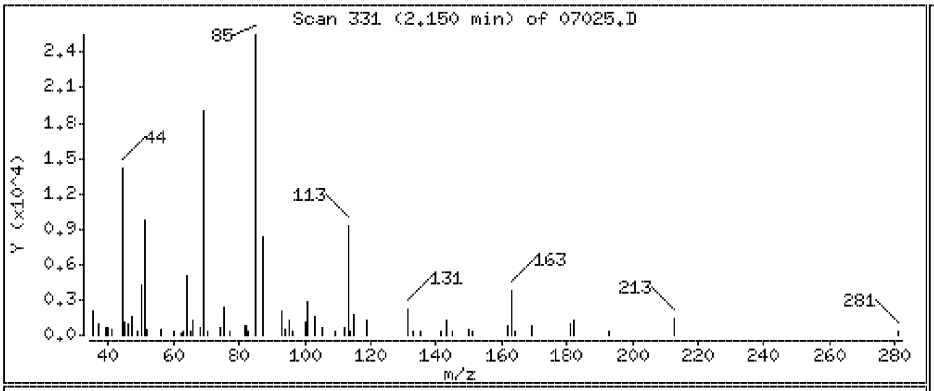
Operator: DR1

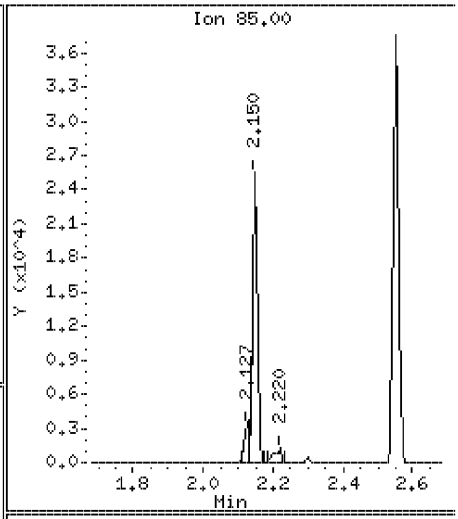
Column phase: J&W DB-5

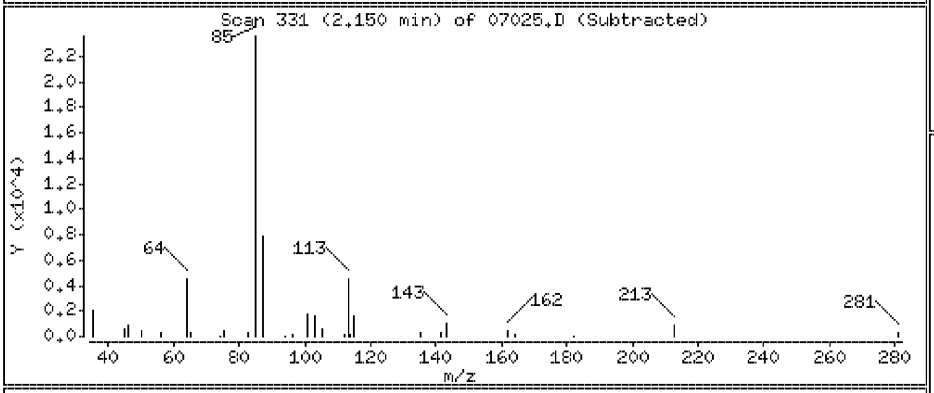
Column diameter: 0.32

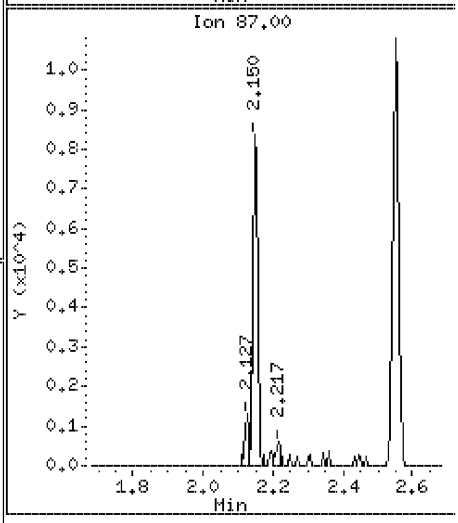
5 Dichlorodifluoromethane

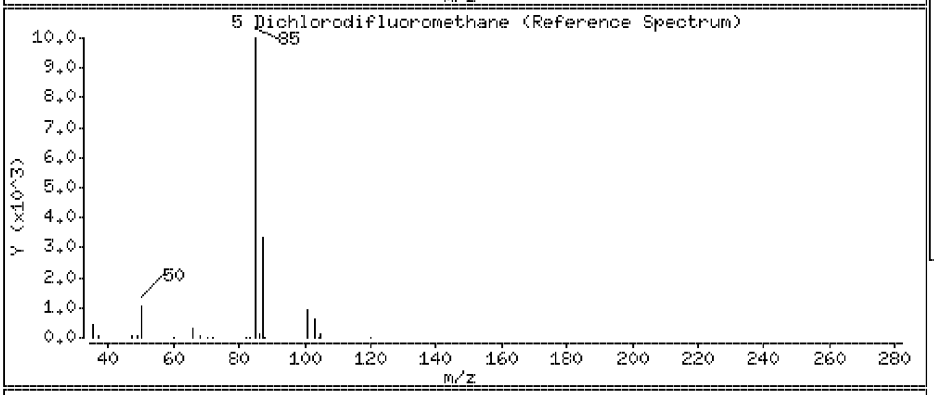
Concentration: 0.558 ppbv

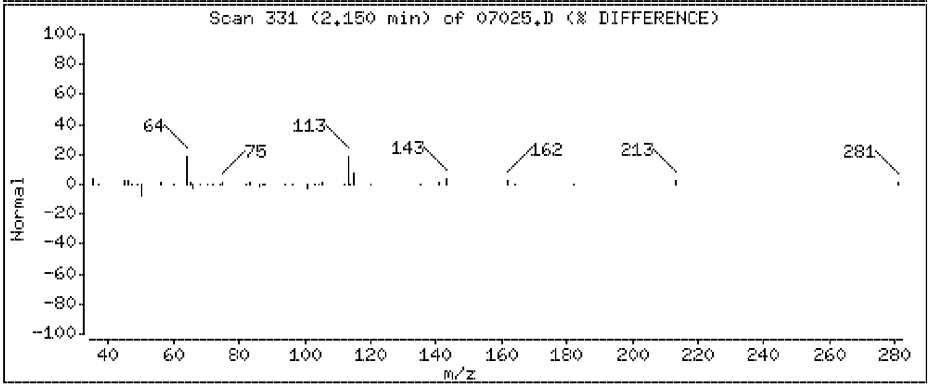












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

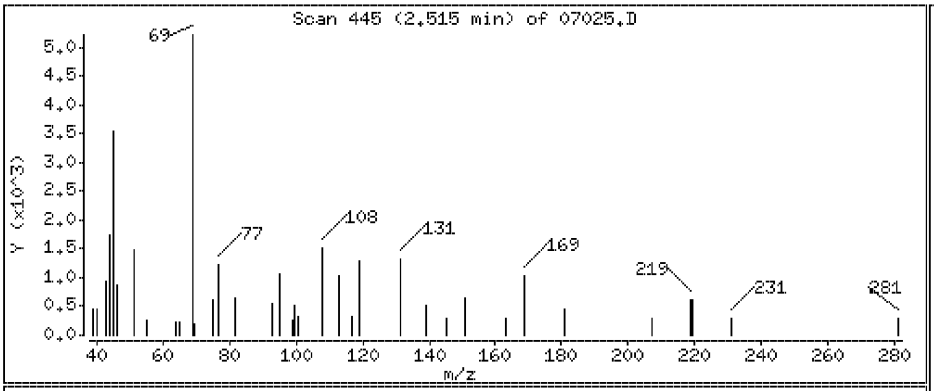
Operator: DR1

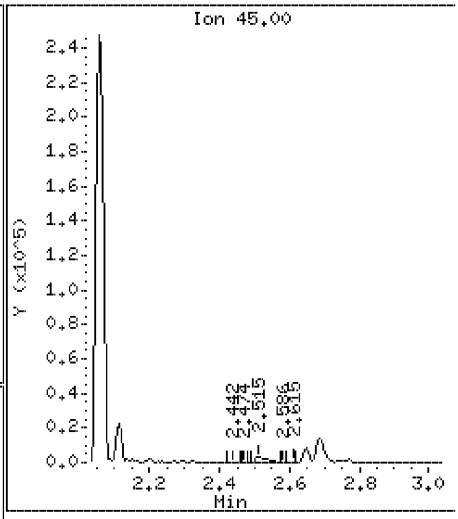
Column phase: J&W DB-5

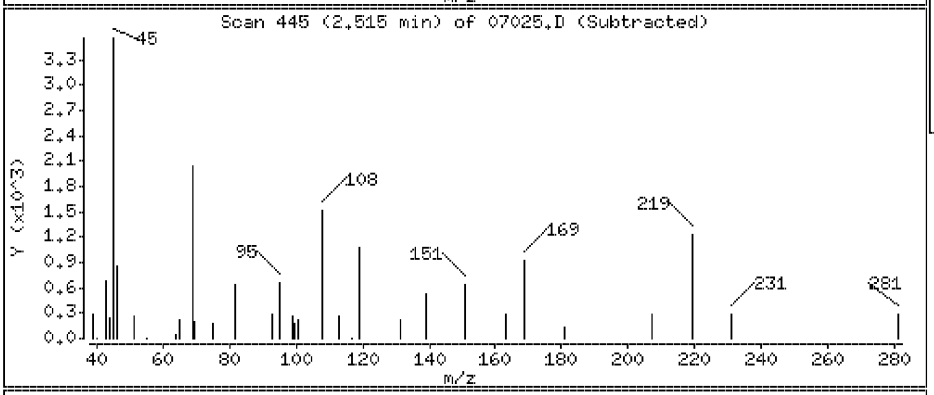
Column diameter: 0.32

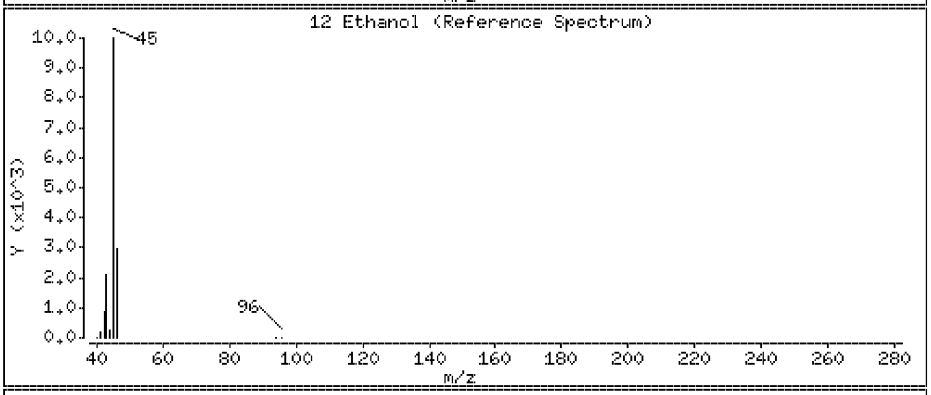
12 Ethanol

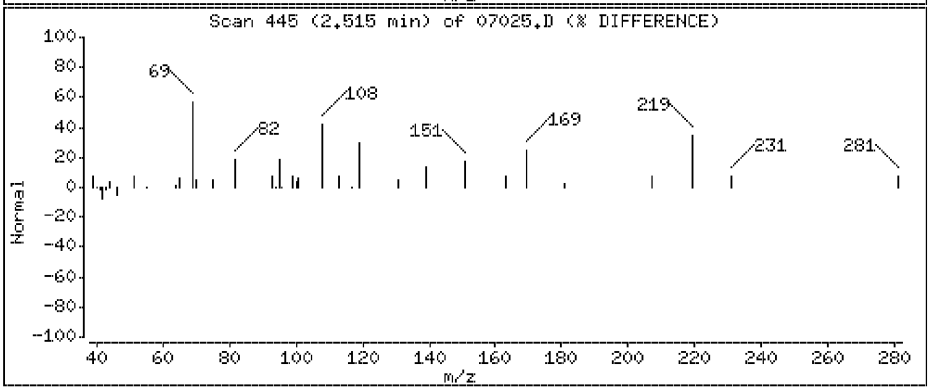
Concentration: 2.77 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

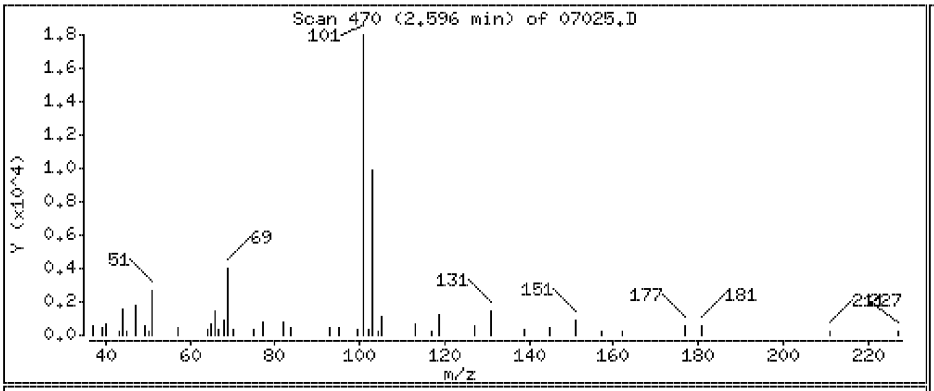
Operator: DR1

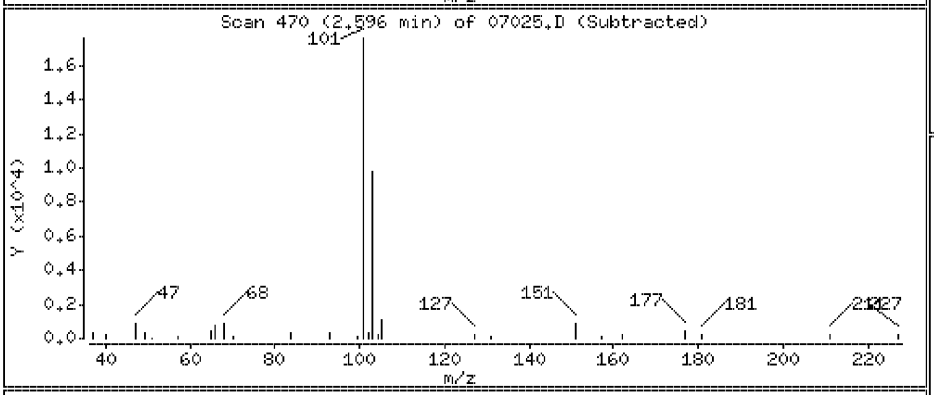
Column phase: J&W DB-5

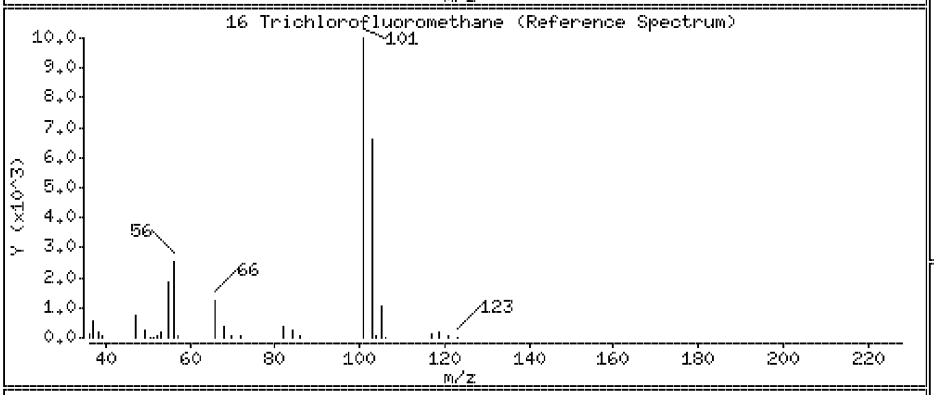
Column diameter: 0.32

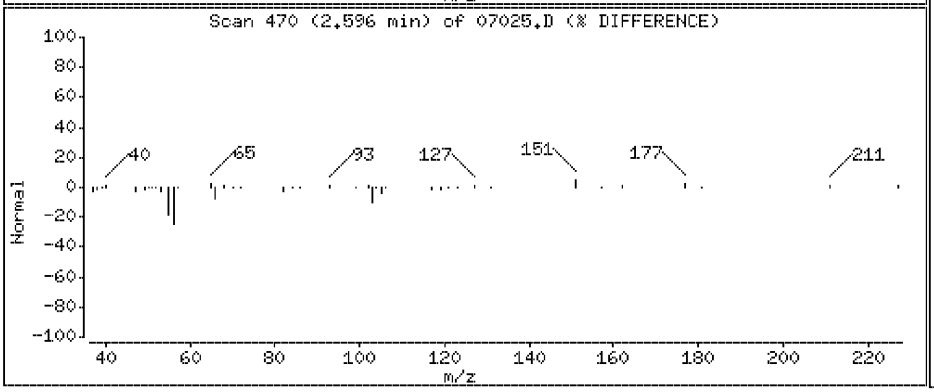
16 Trichlorofluoromethane

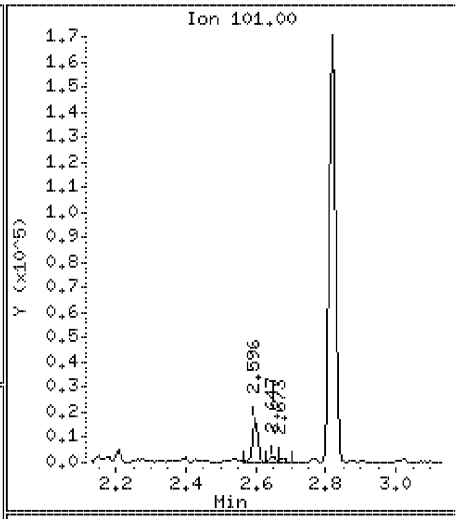
Concentration: 0.442 ppbv

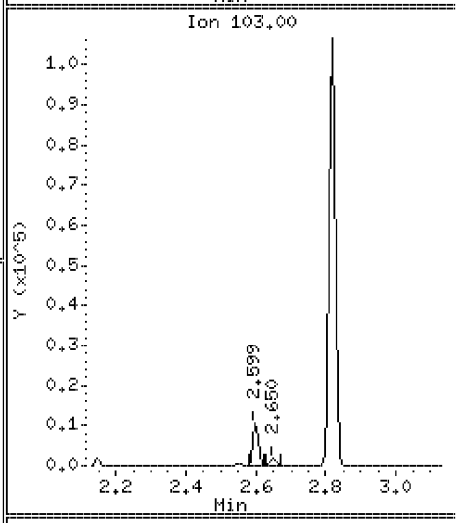


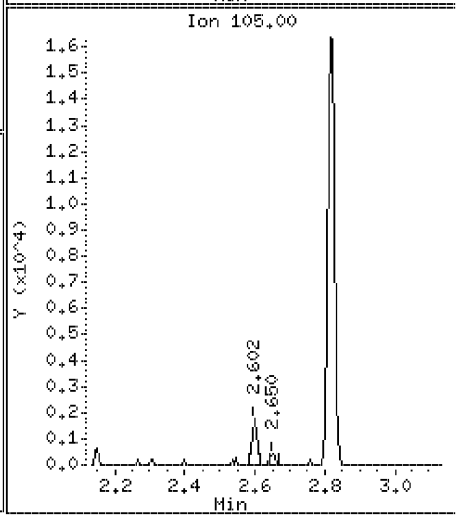












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

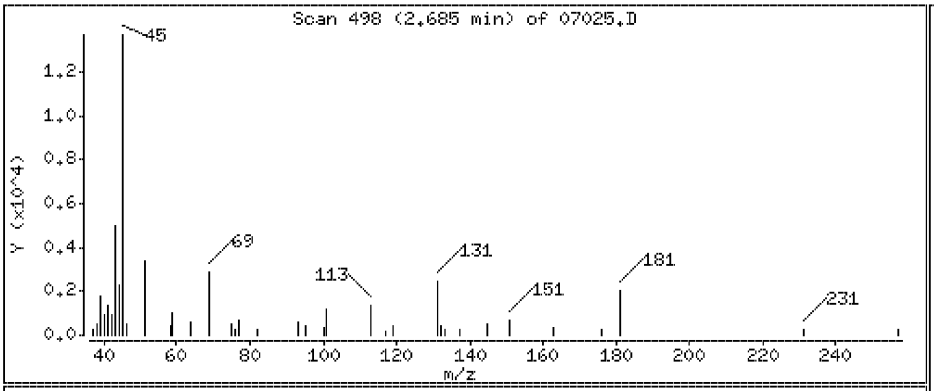
Operator: DR1

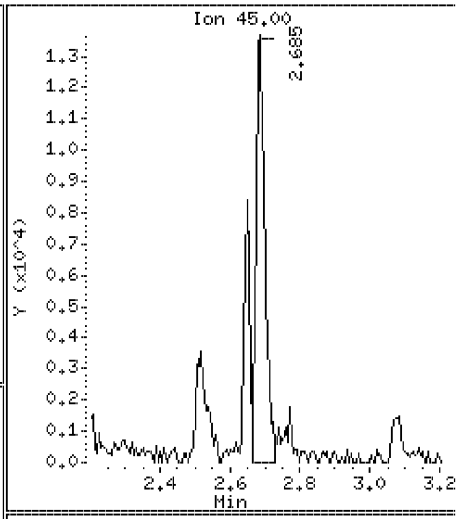
Column phase: J&W DB-5

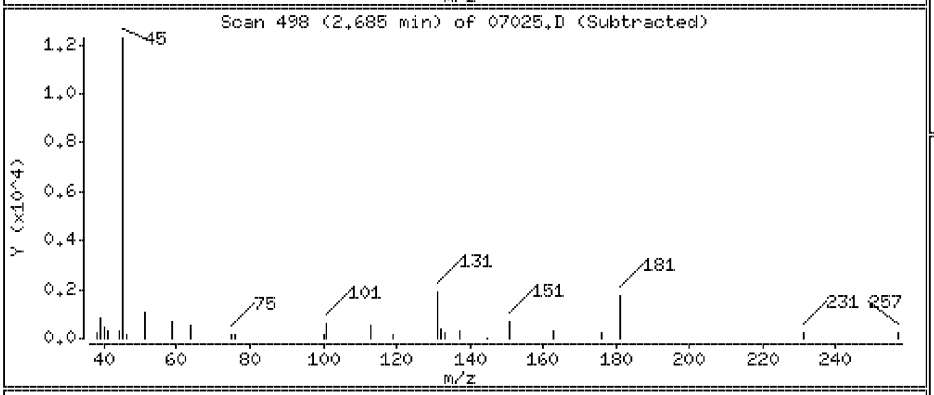
Column diameter: 0.32

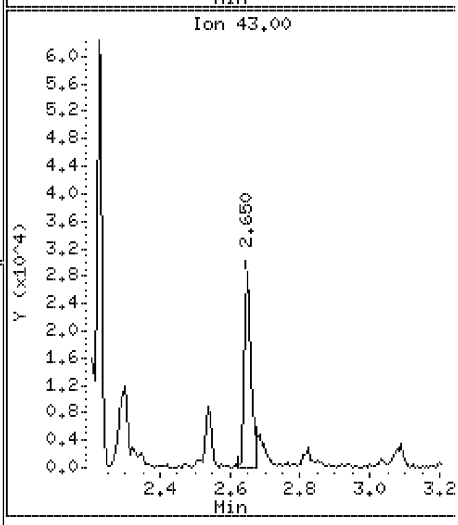
19 Isopropyl Alcohol

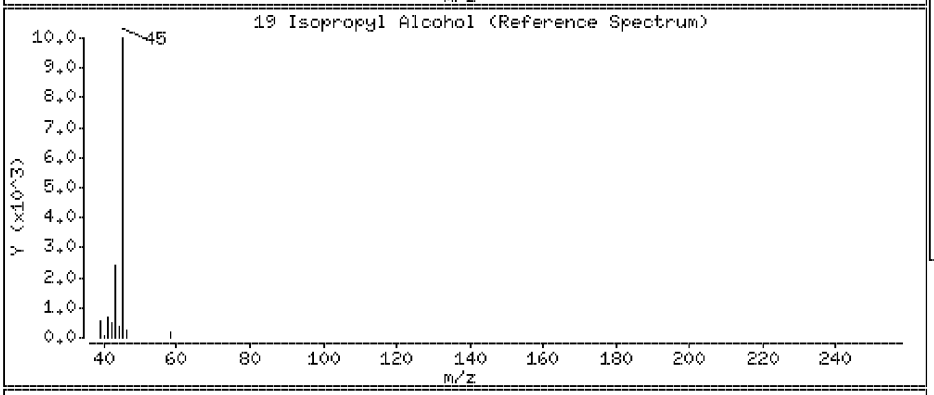
Concentration: 1.69 ppbv

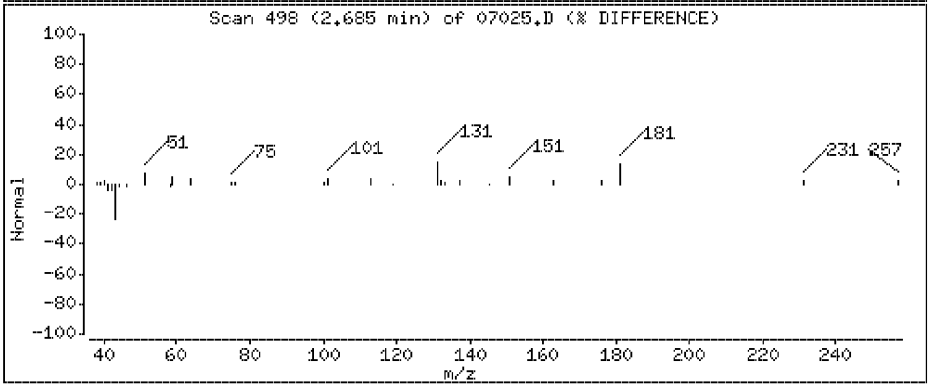












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

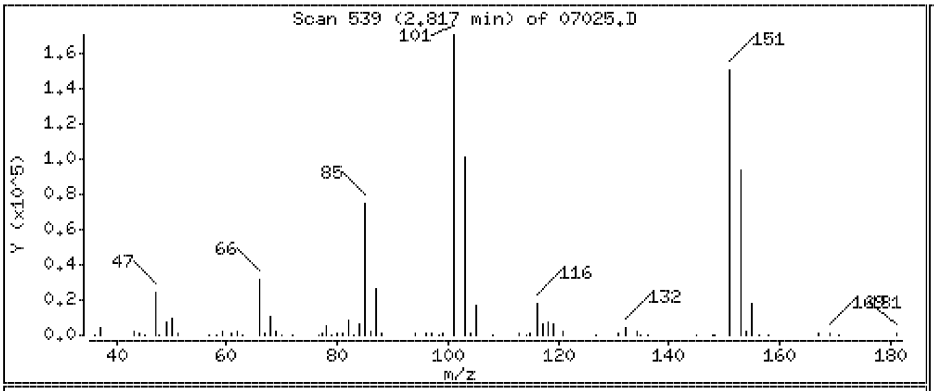
Operator: DR1

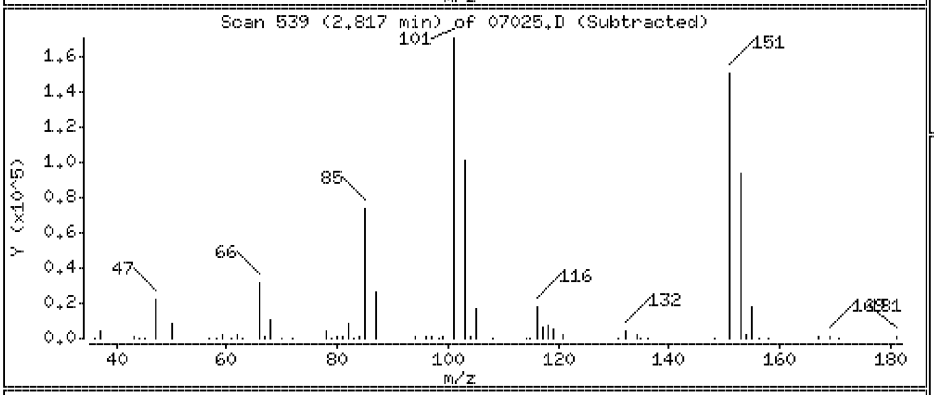
Column phase: J&W DB-5

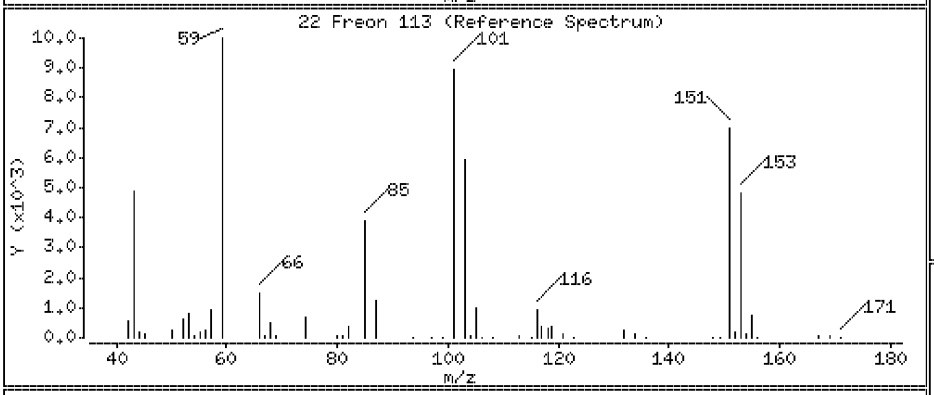
Column diameter: 0.32

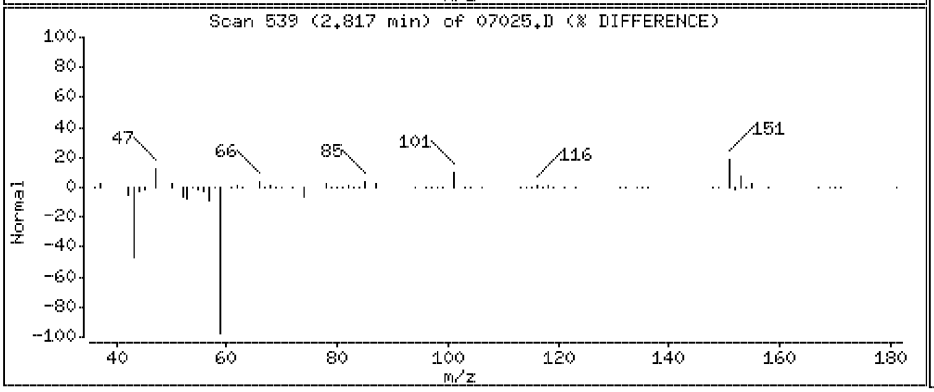
22 Freon 113

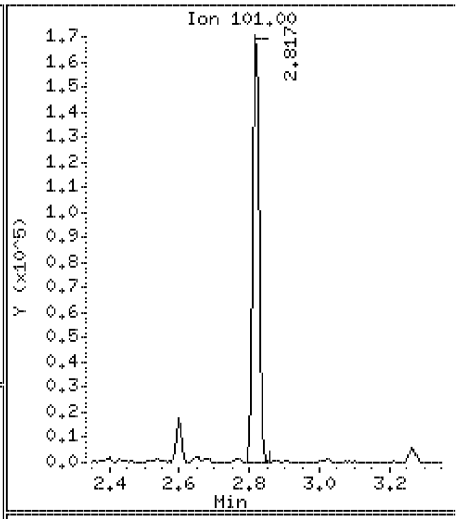
Concentration: 6.42 ppbv

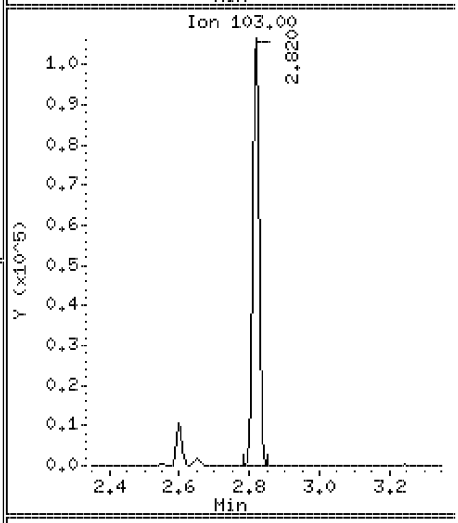


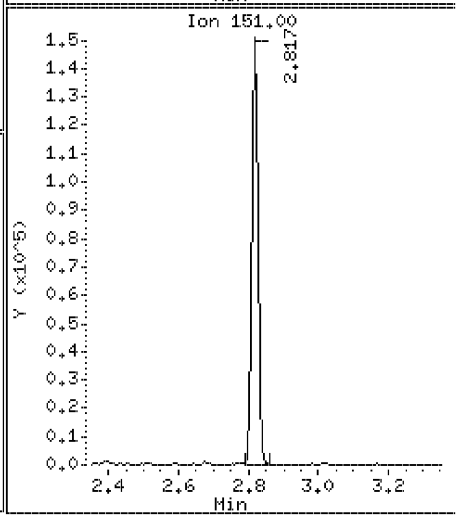












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

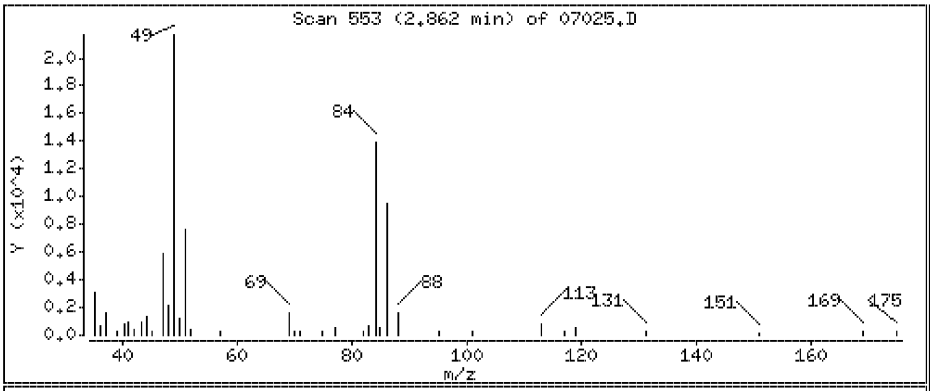
Operator: DR1

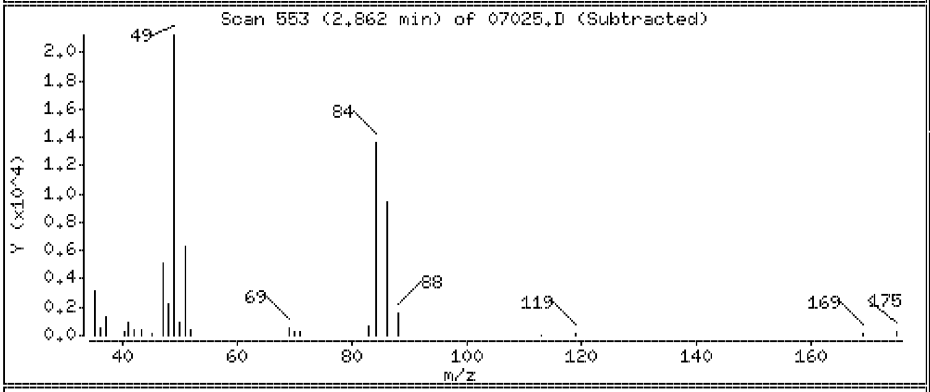
Column phase: J&W DB-5

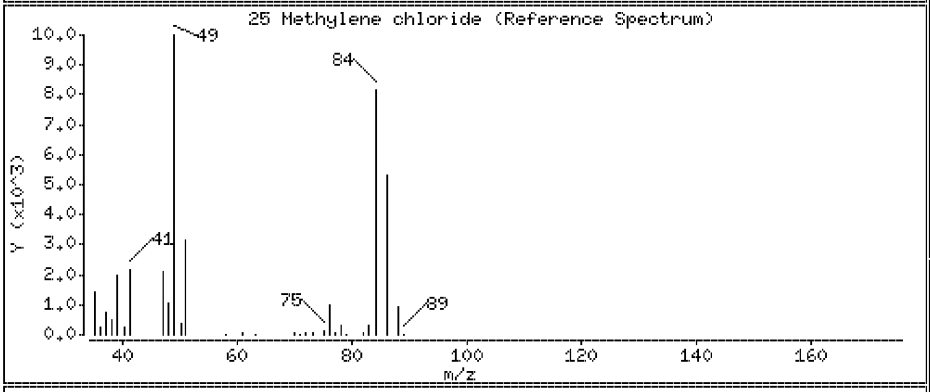
Column diameter: 0.32

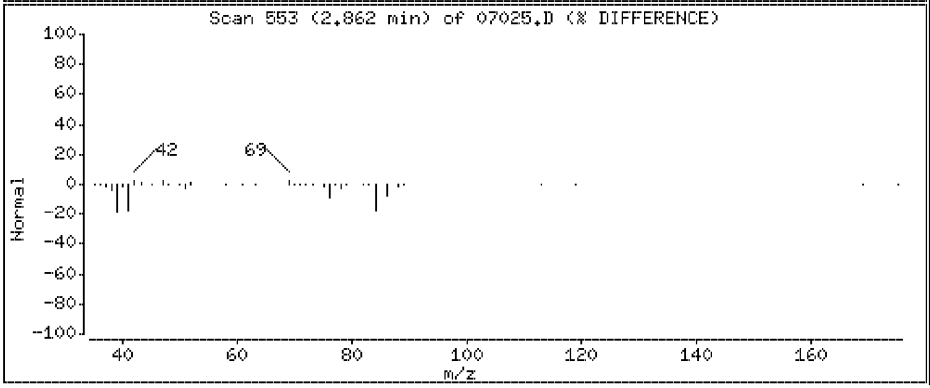
25 Methylene chloride

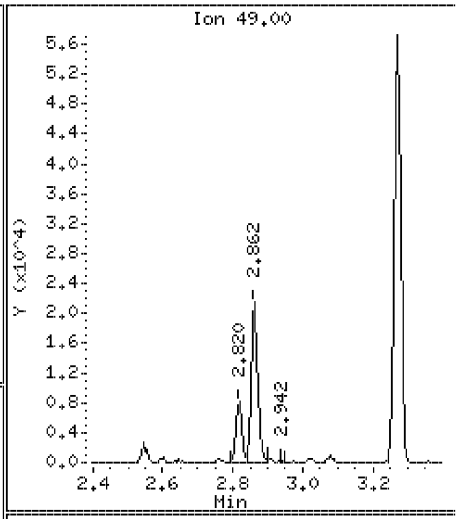
Concentration: 0.801 ppbv

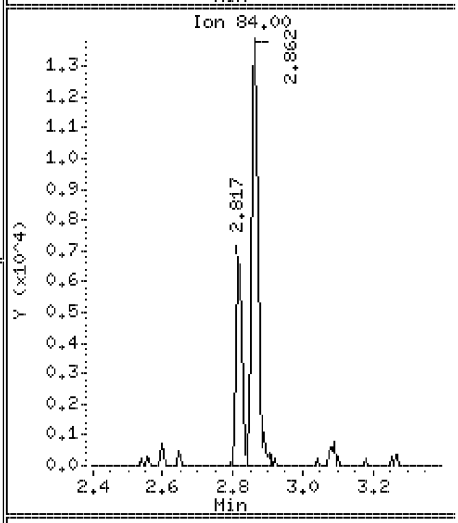


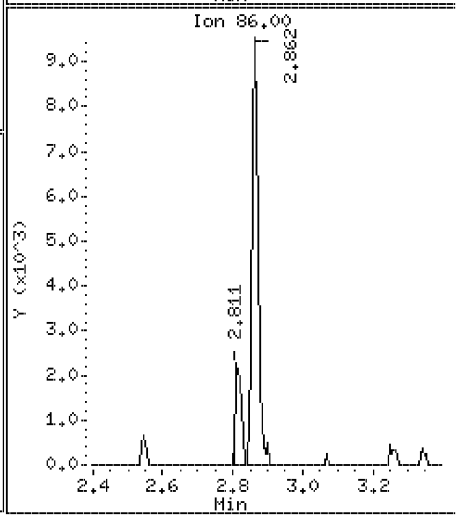












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

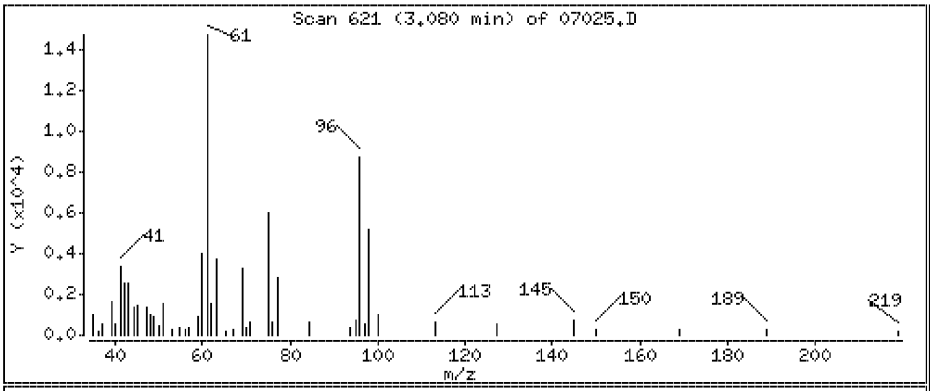
Operator: DR1

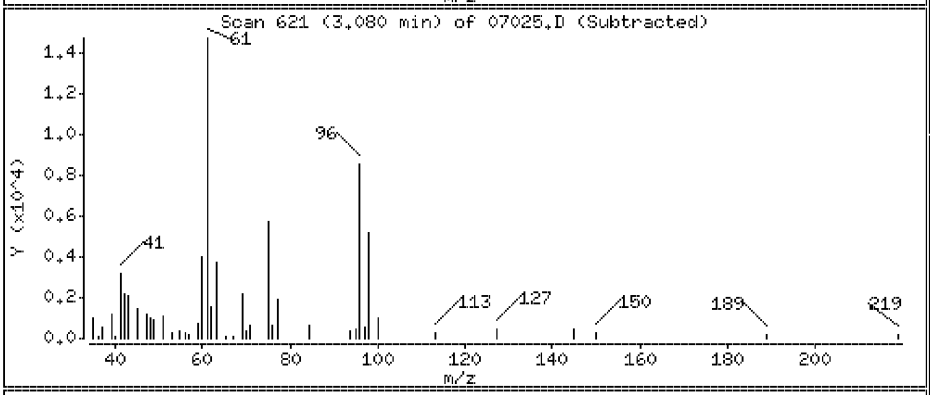
Column phase: J&W DB-5

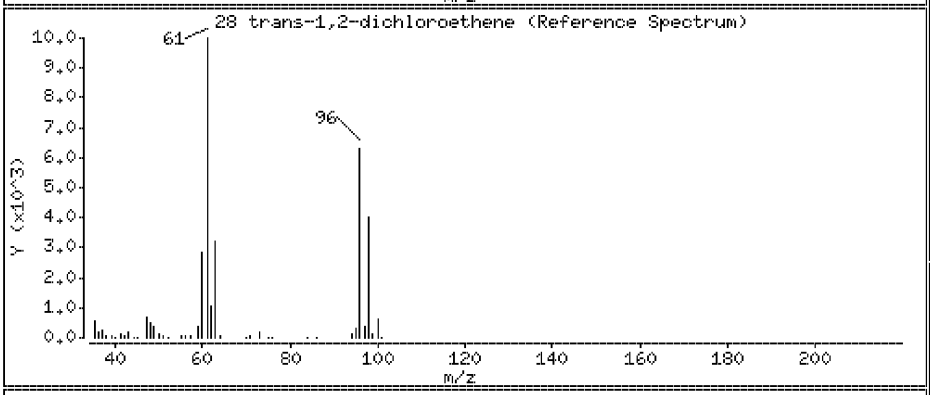
Column diameter: 0.32

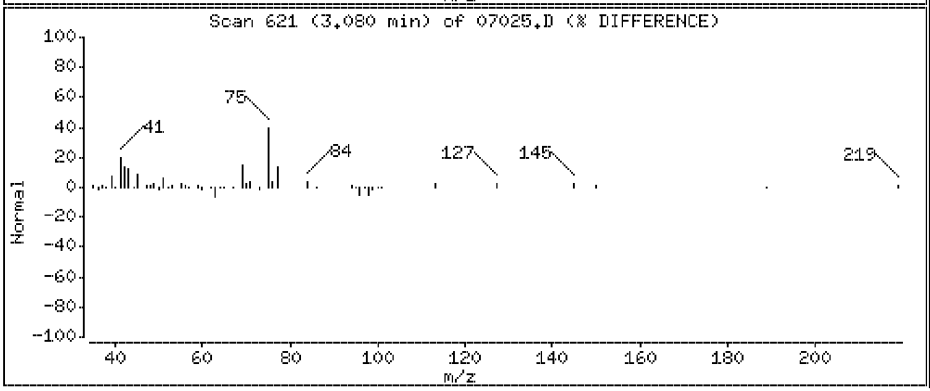
28 trans-1,2-dichloroethene

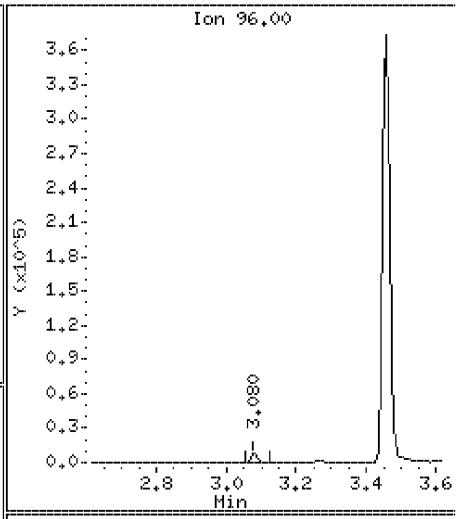
Concentration: 0.940 ppbv

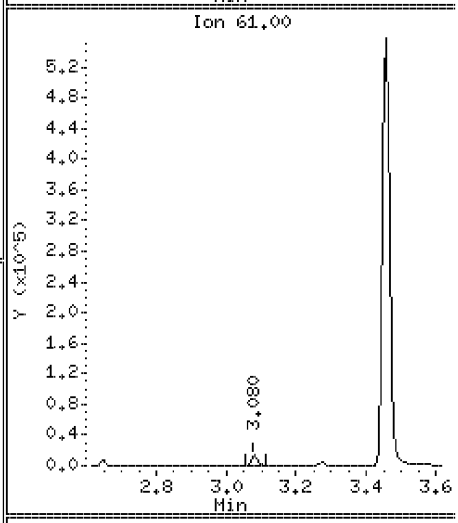


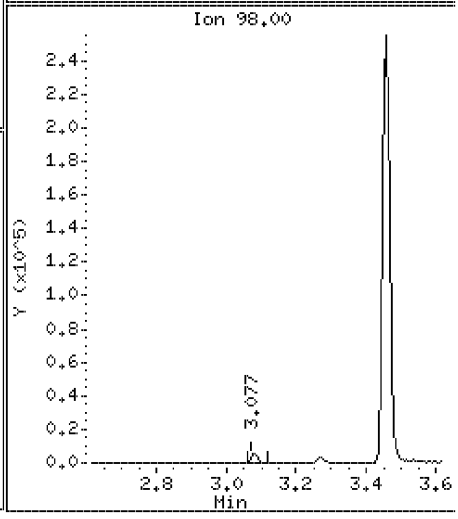












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

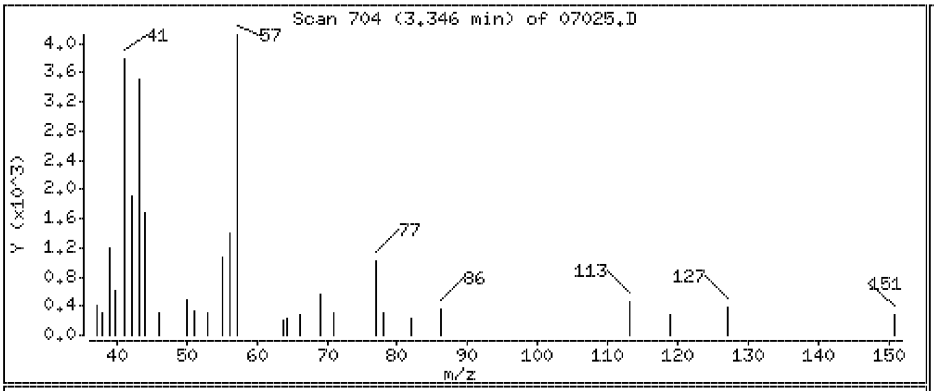
Operator: DR1

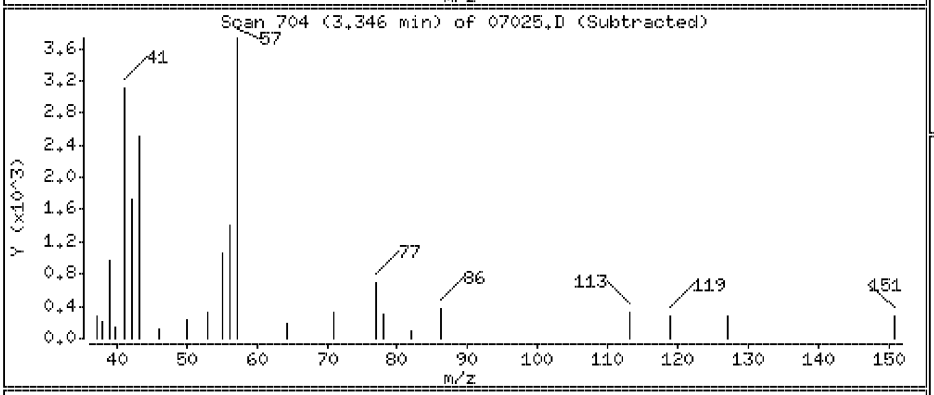
Column phase: J&W DB-5

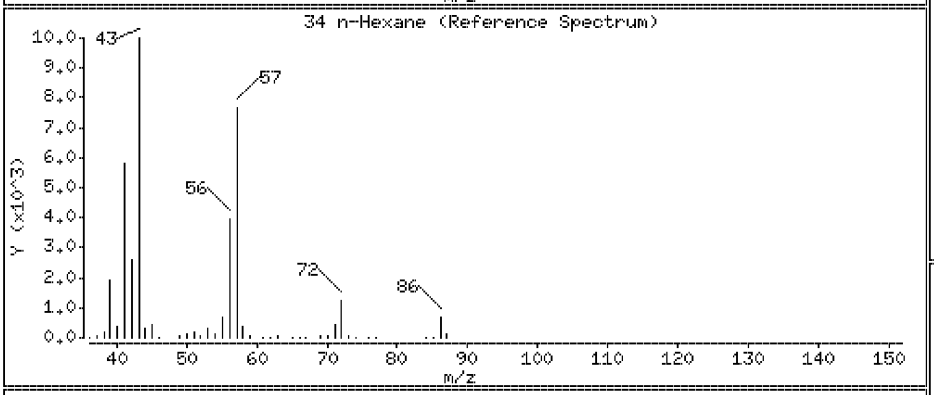
Column diameter: 0.32

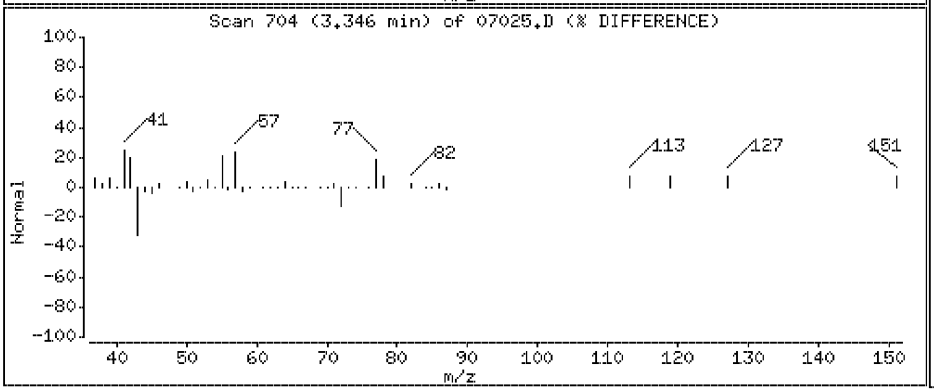
34 n-Hexane

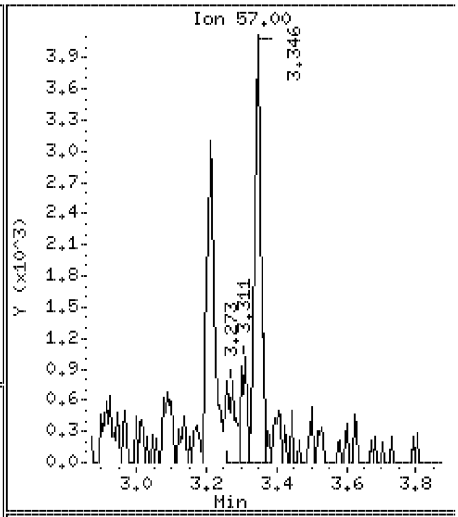
Concentration: 0.265 ppbv

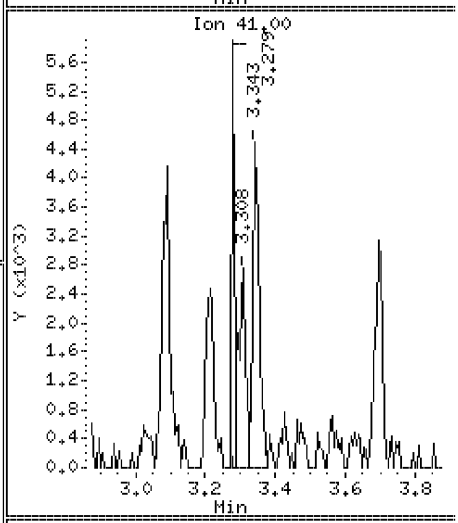


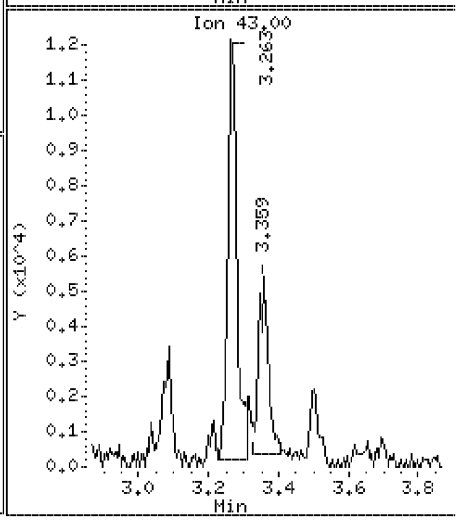












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

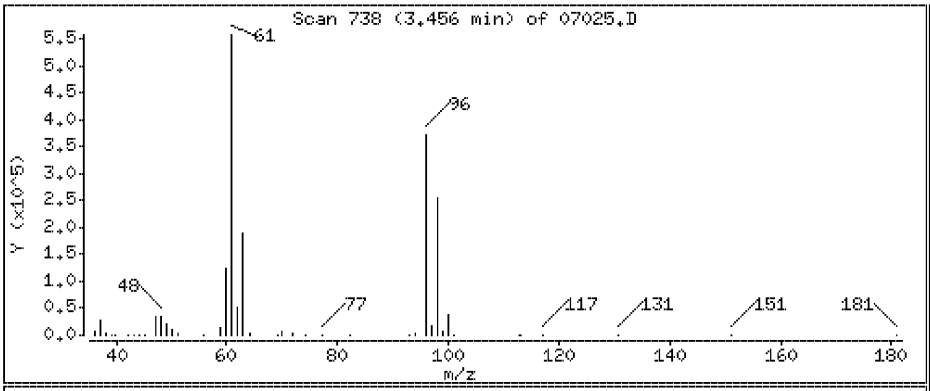
Operator: DR1

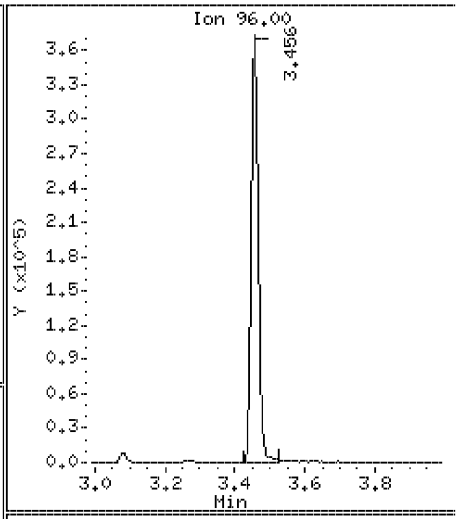
Column phase: J&W DB-5

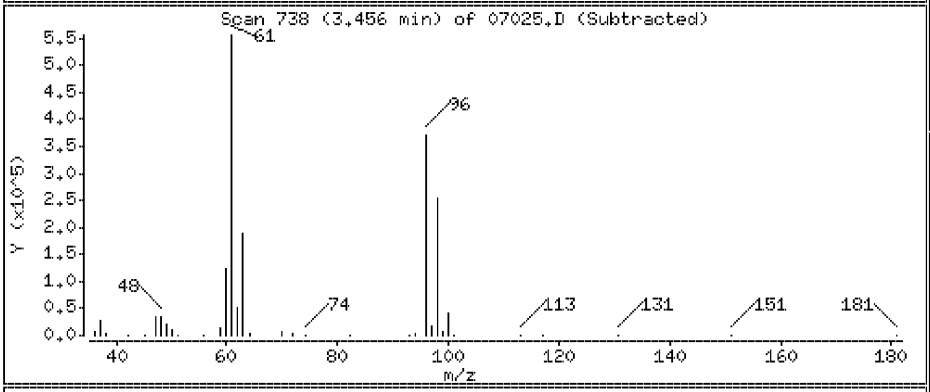
Column diameter: 0.32

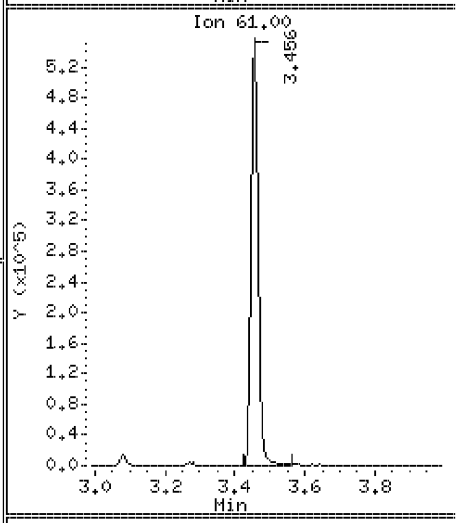
36 cis-1,2-Dichloroethene

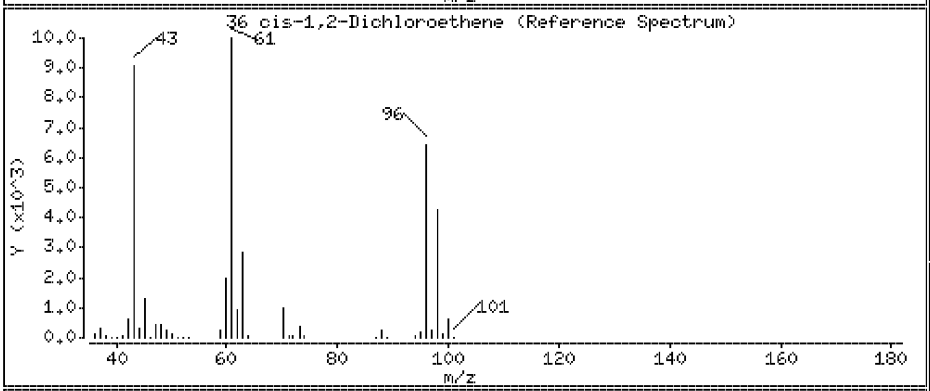
Concentration: 38.8 ppbv

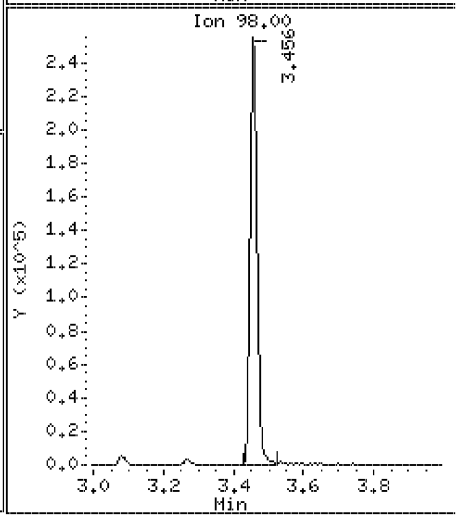


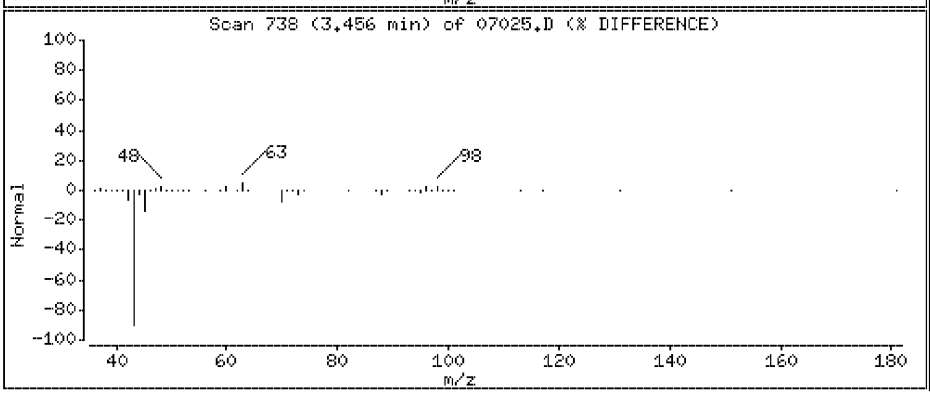












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

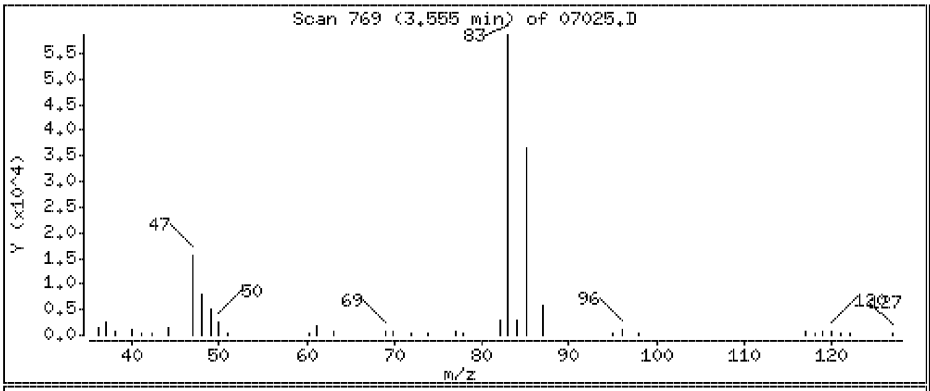
Operator: DR1

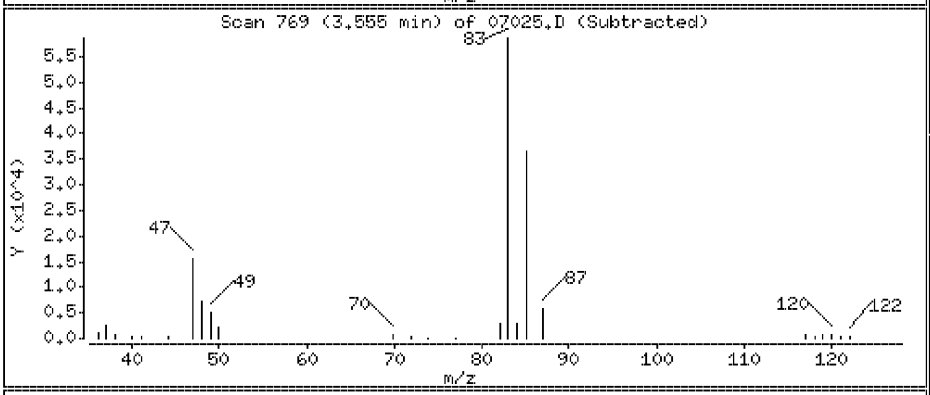
Column phase: J&W DB-5

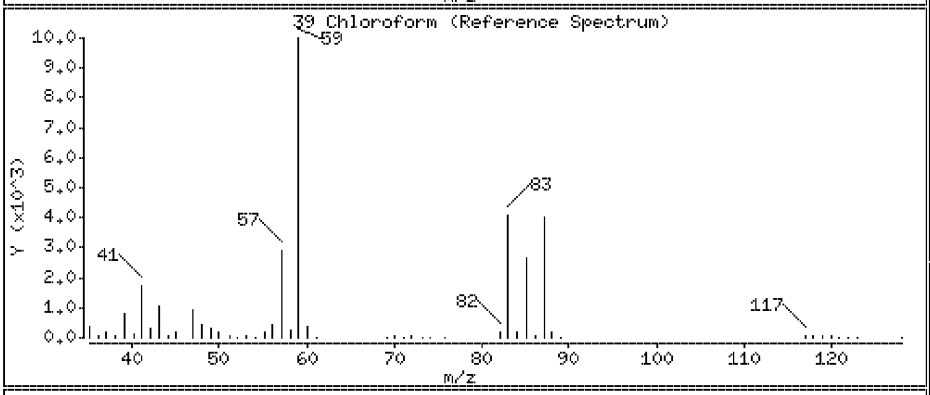
Column diameter: 0.32

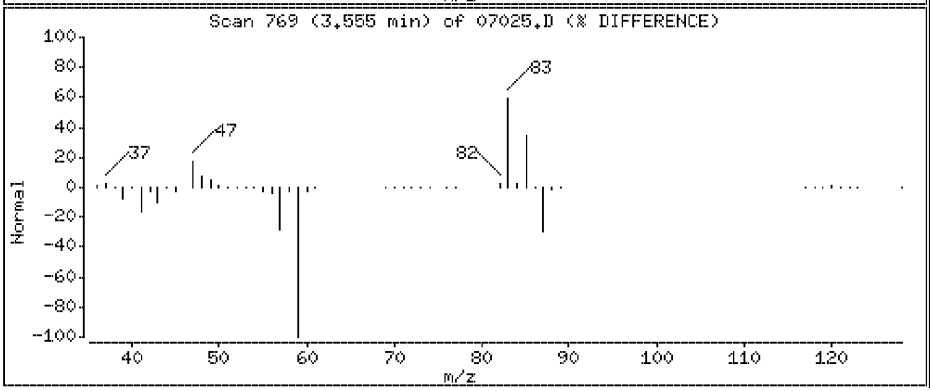
39 Chloroform

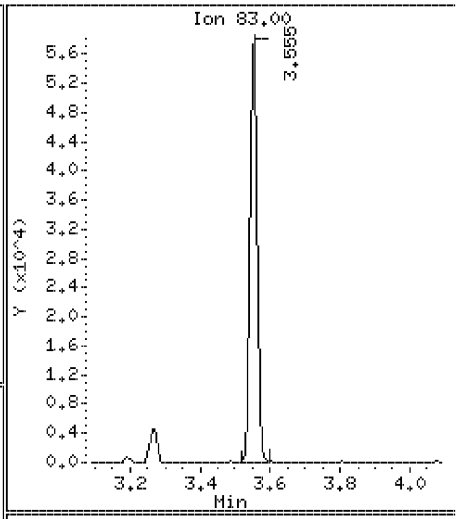
Concentration: 2.41 ppbv

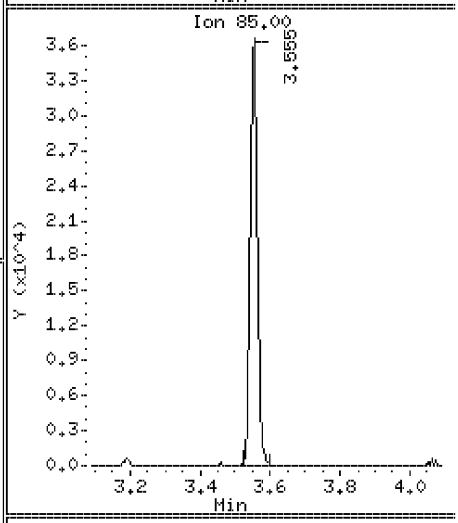


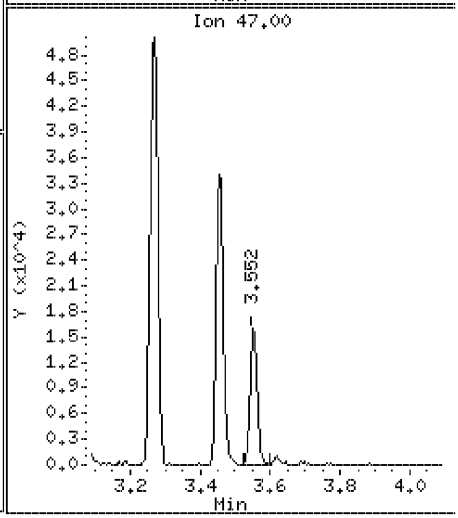












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

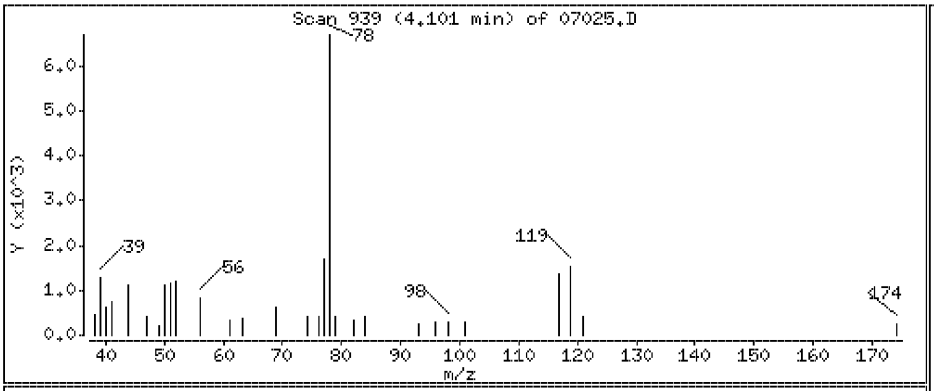
Operator: DR1

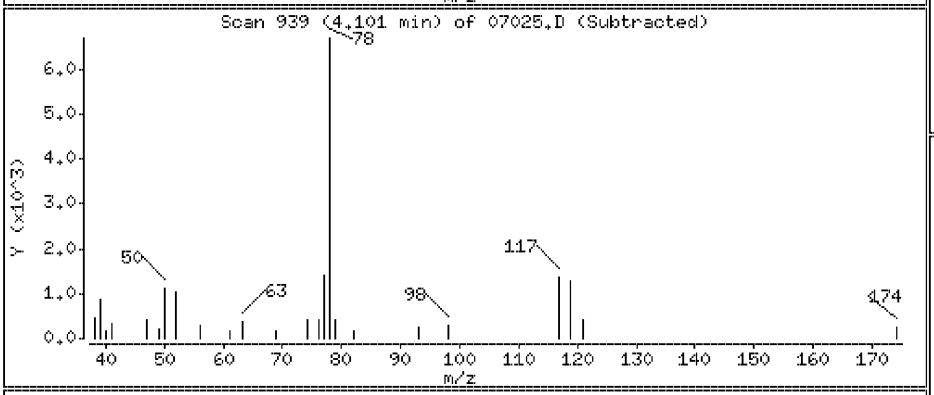
Column phase: J&W DB-5

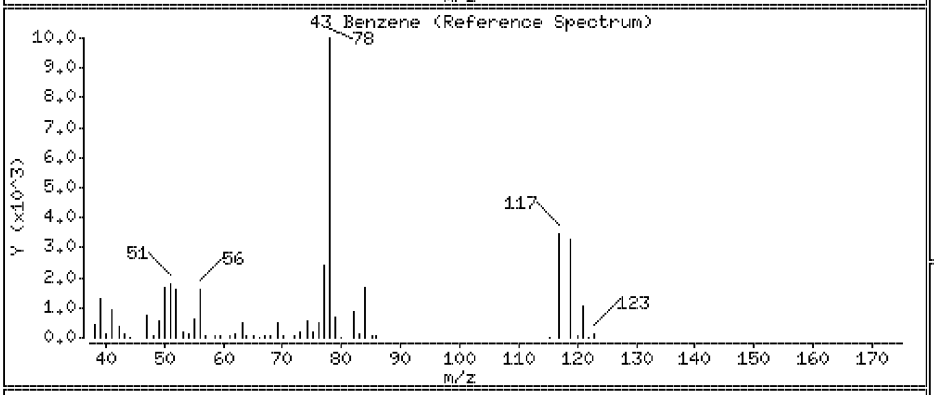
Column diameter: 0.32

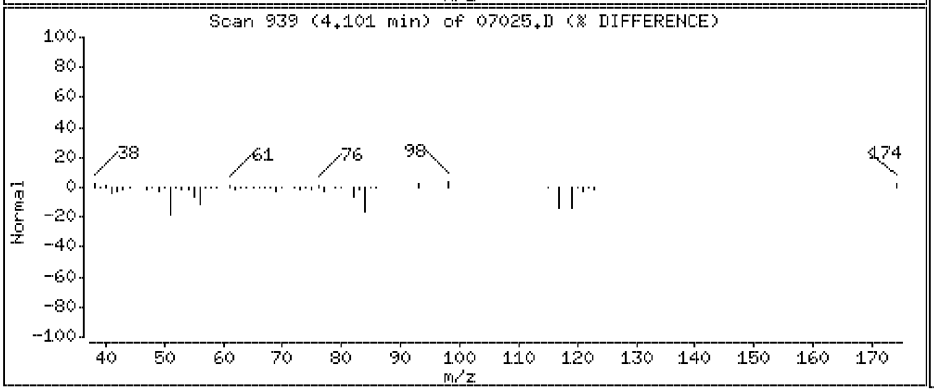
43 Benzene

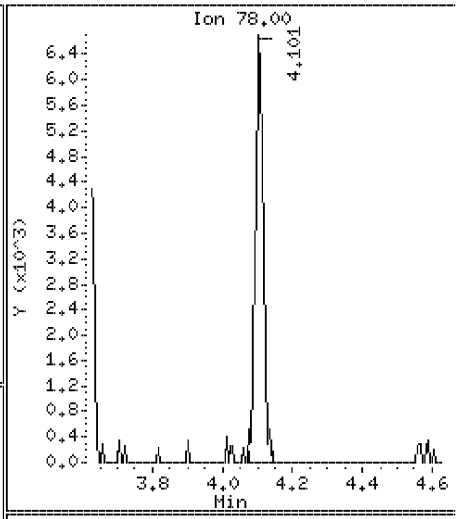
Concentration: 0.257 ppbv

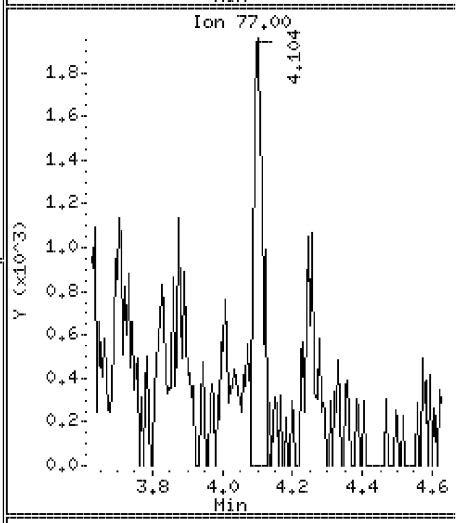


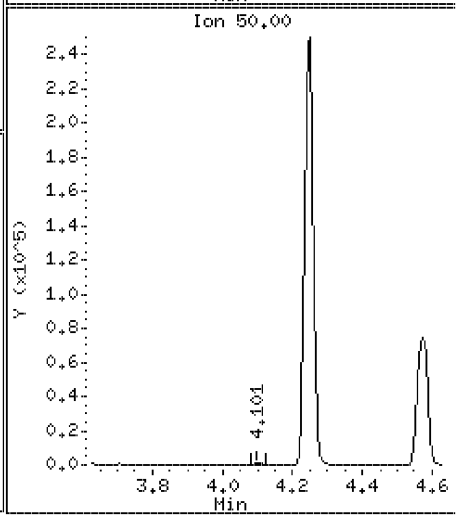












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

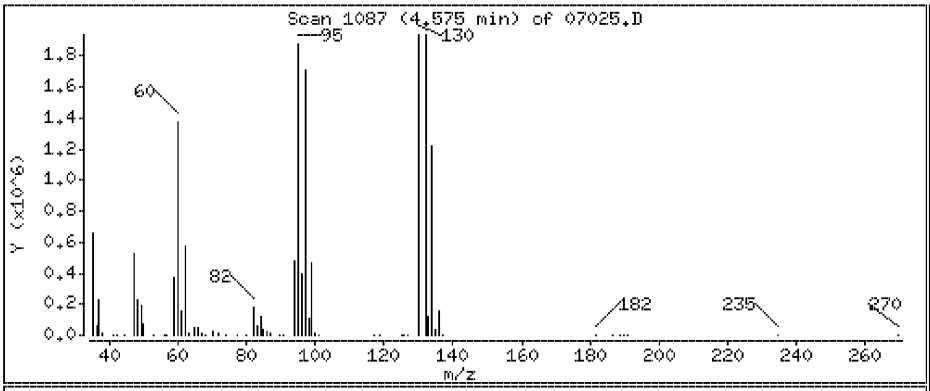
Operator: DR1

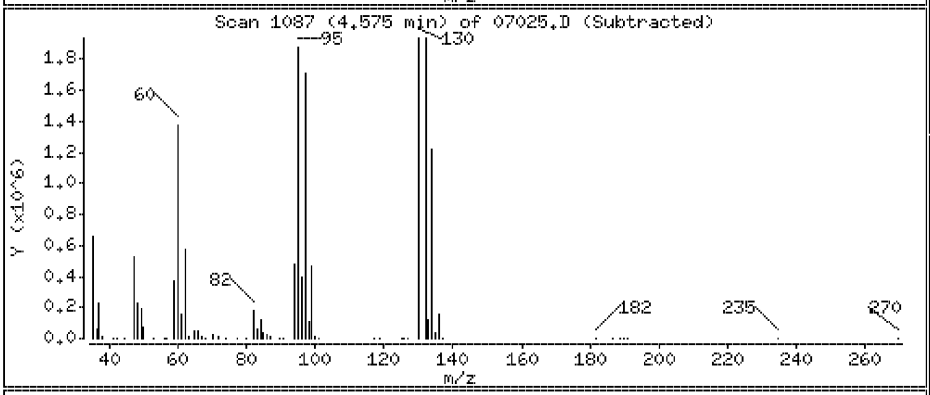
Column phase: J&W DB-5

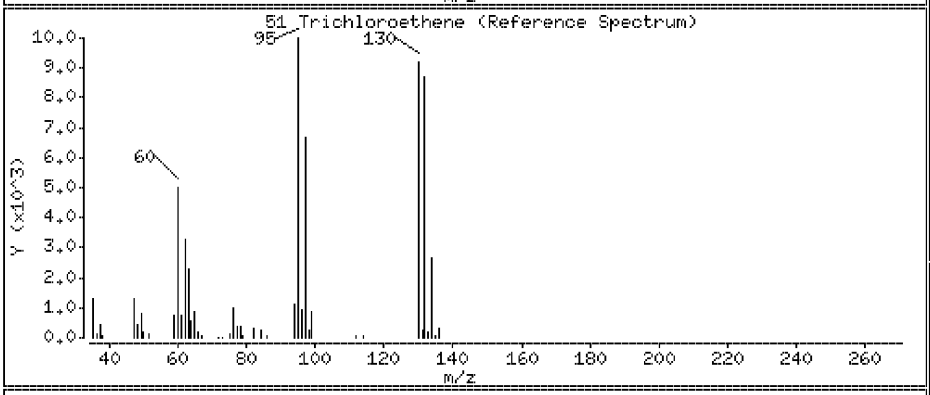
Column diameter: 0.32

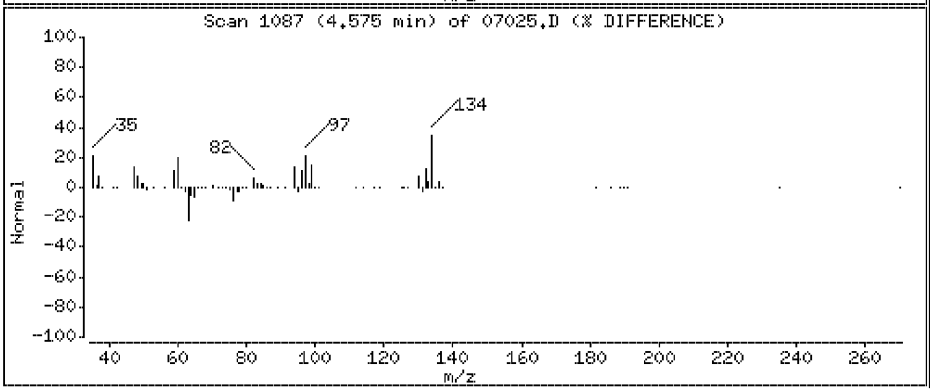
51 Trichloroethene

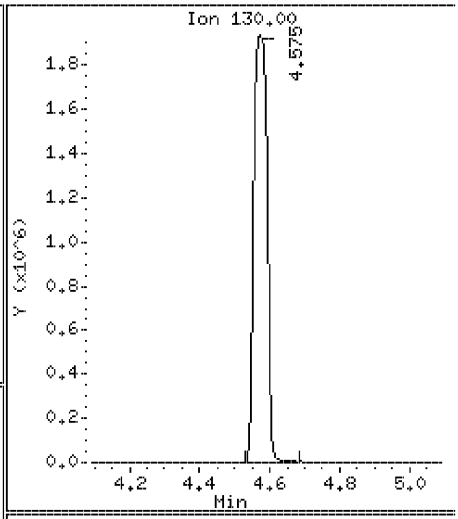
Concentration: 232 ppbv

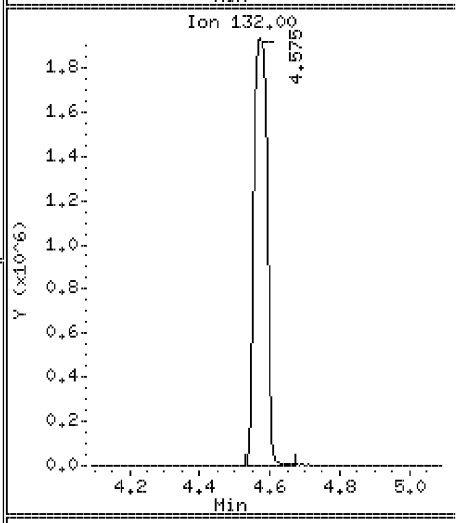


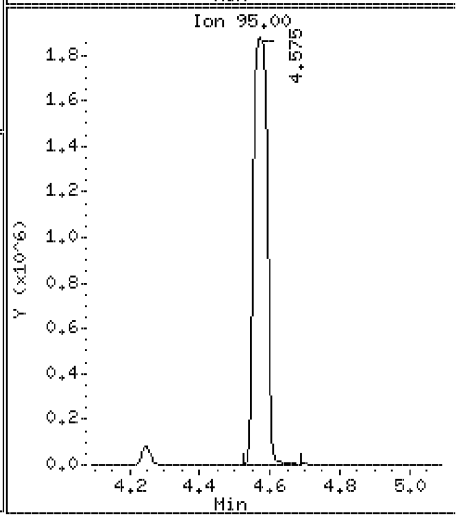












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

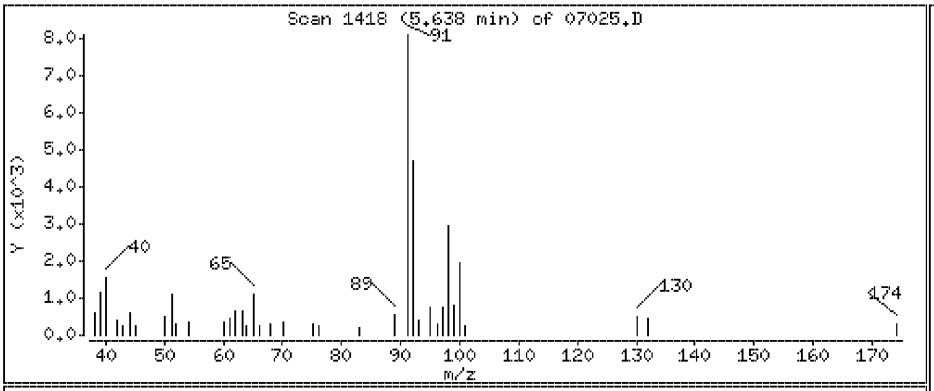
Operator: DR1

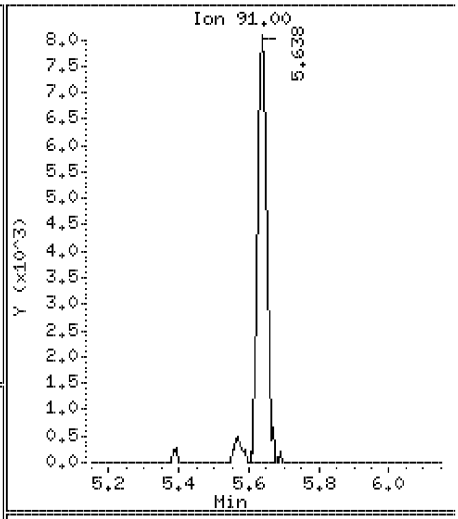
Column phase: J&W DB-5

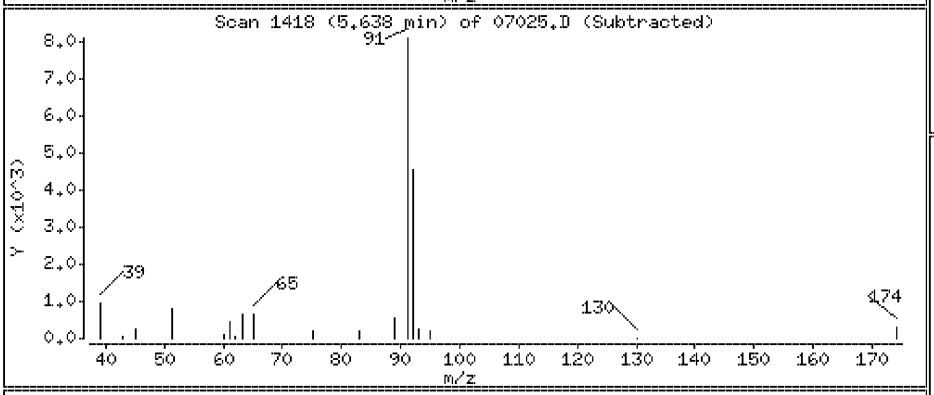
Column diameter: 0.32

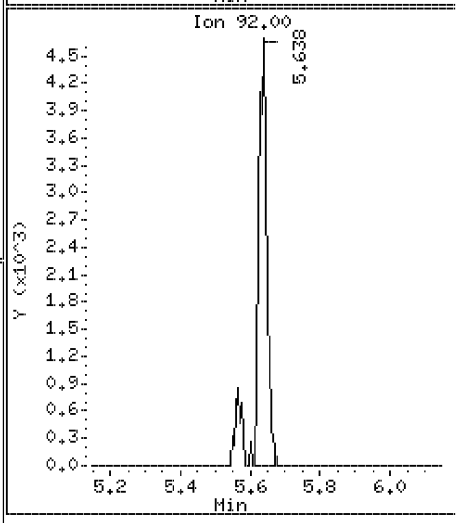
60 Toluene

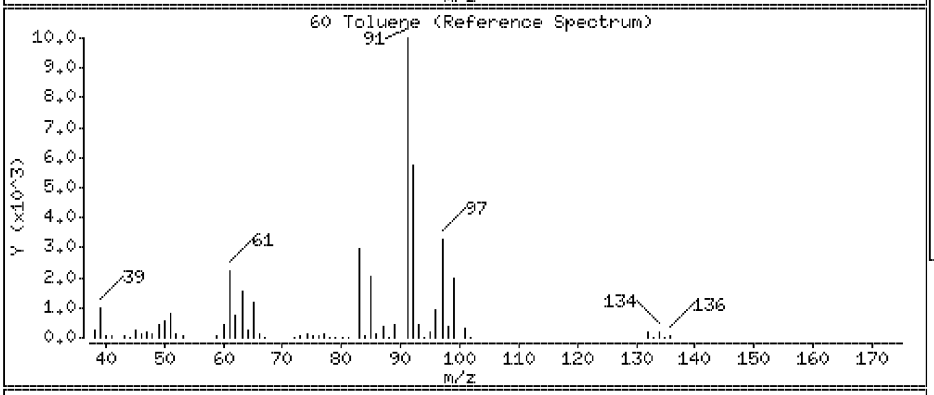
Concentration: 0.266 ppbv

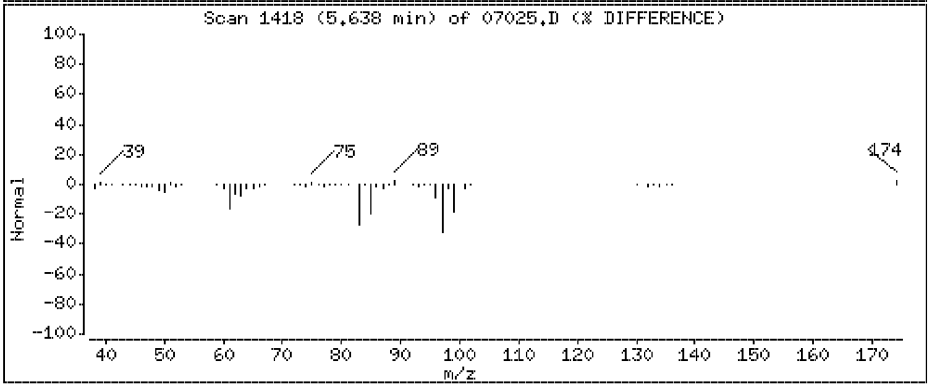












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

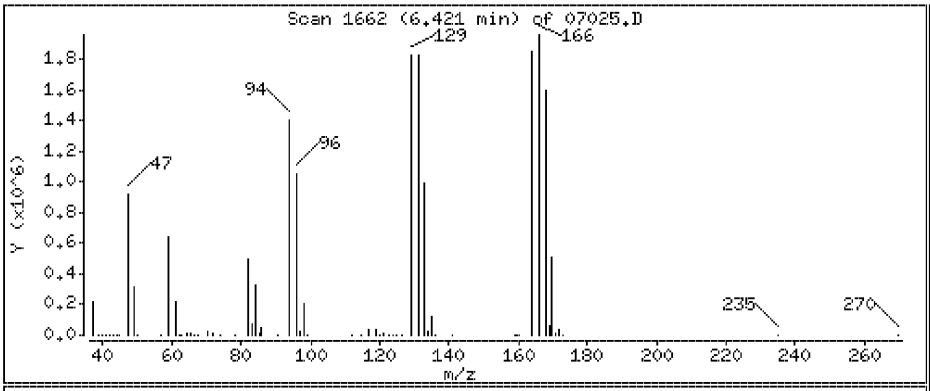
Operator: DR1

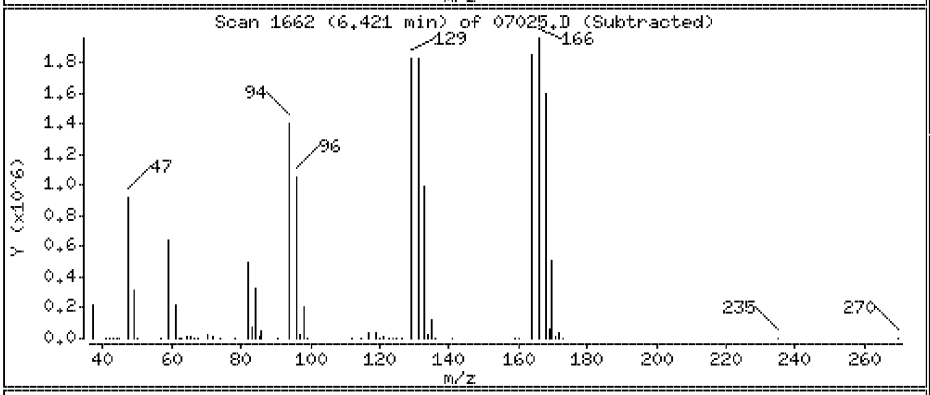
Column phase: J&W DB-5

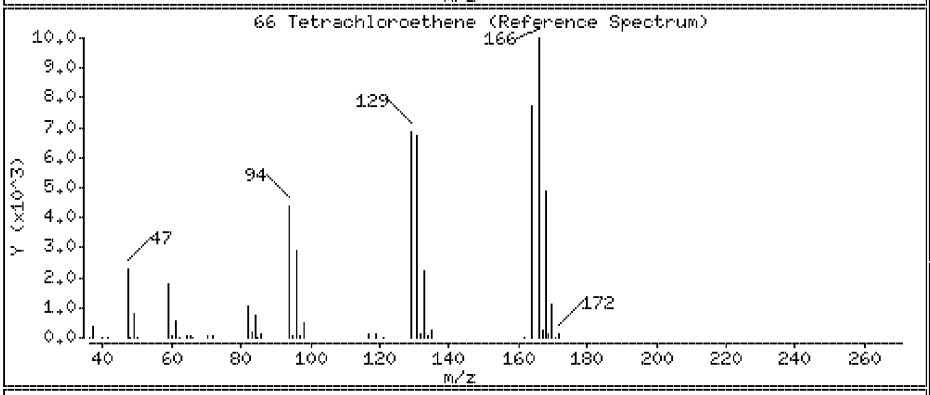
Column diameter: 0.32

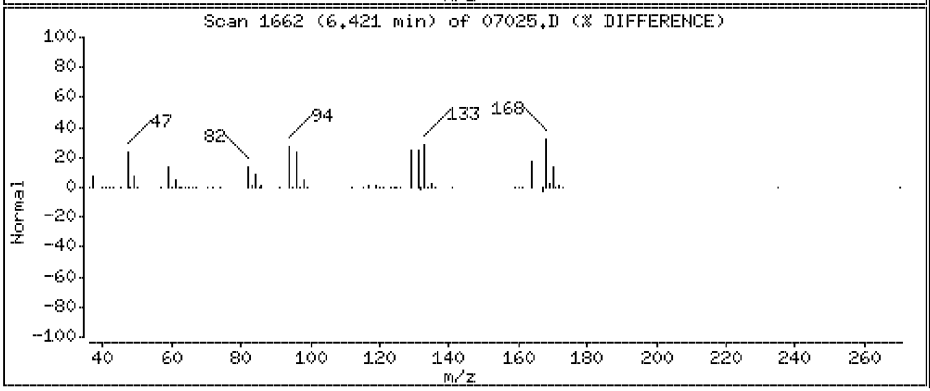
66 Tetrachloroethene

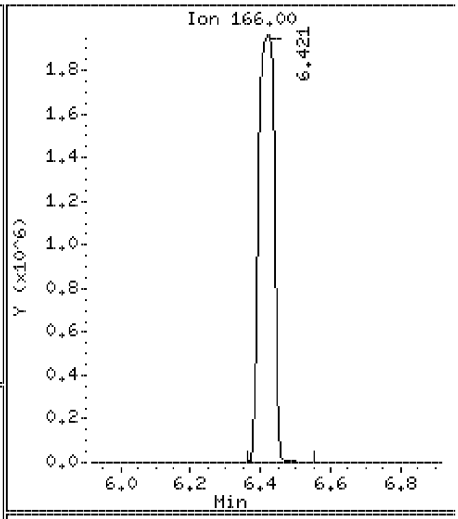
Concentration: 209 ppbv

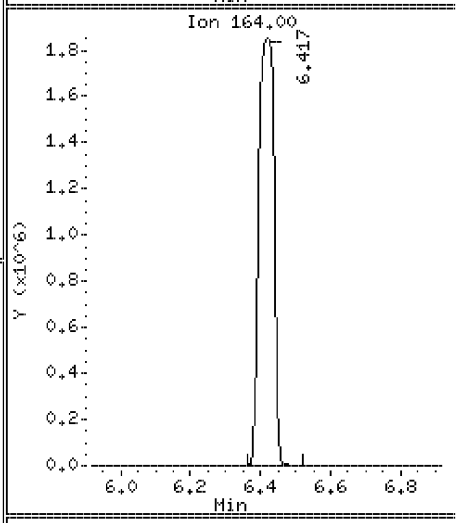


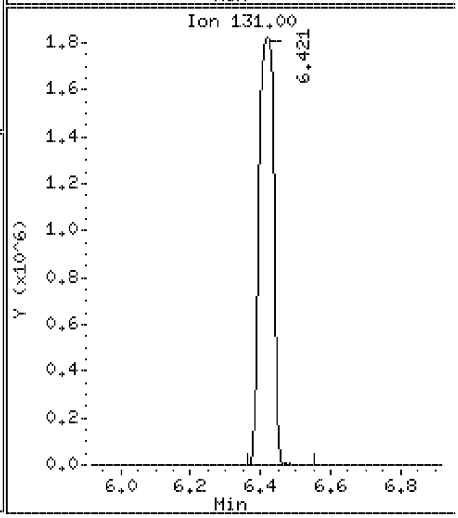












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

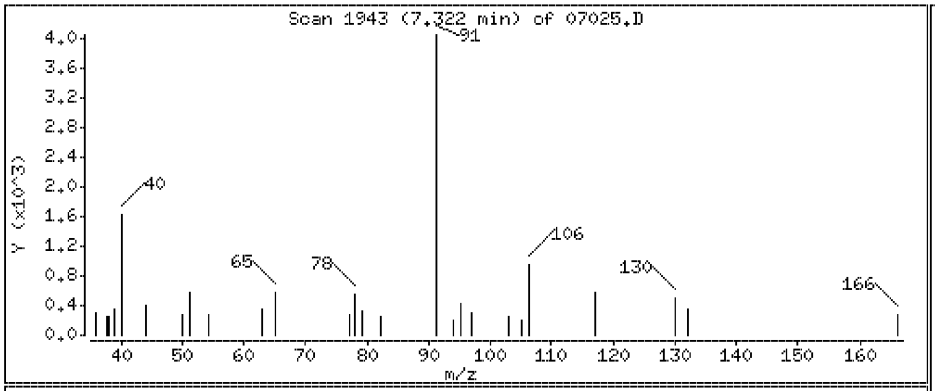
Operator: DR1

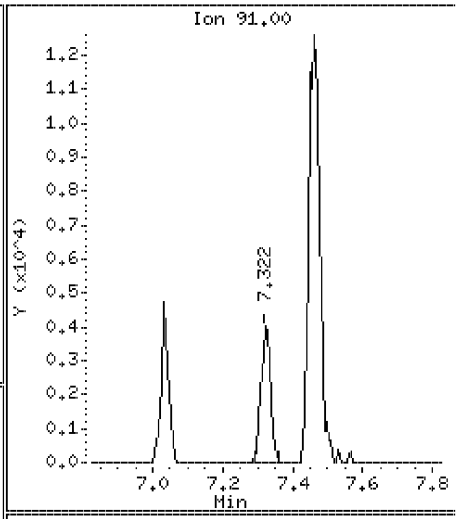
Column phase: J&W DB-5

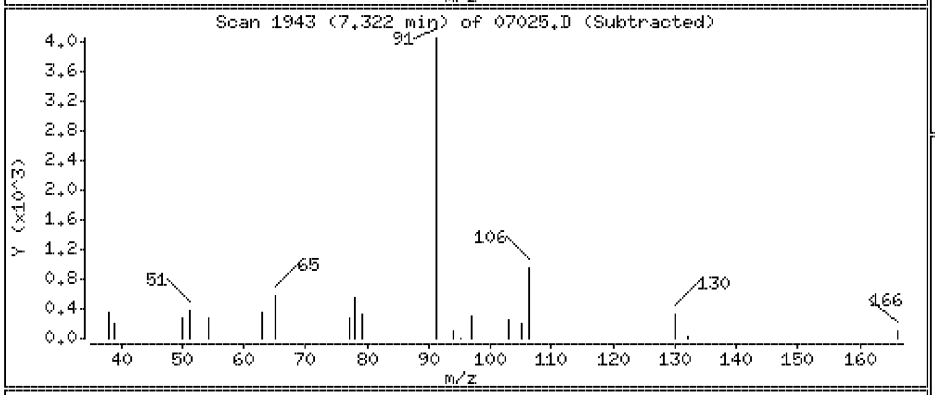
Column diameter: 0.32

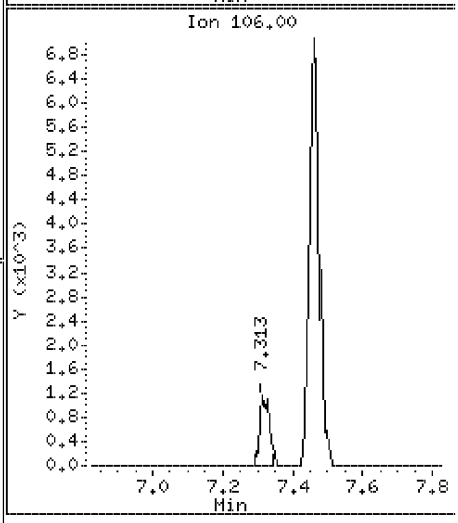
69 Ethyl Benzene

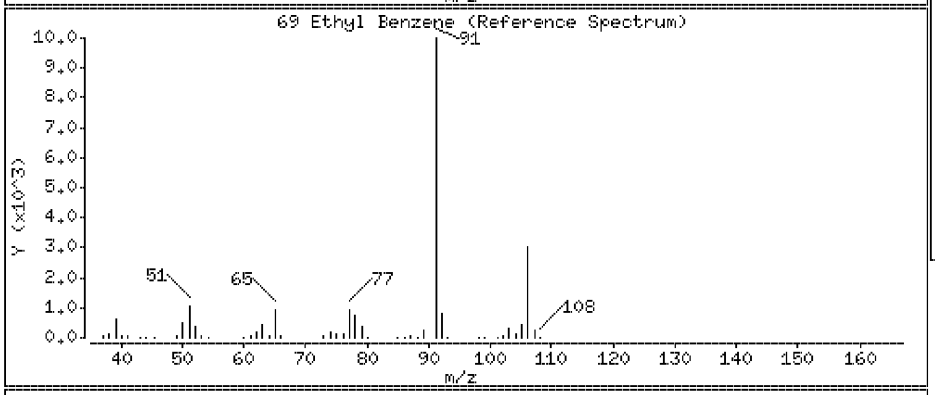
Concentration: 0.126 ppbv

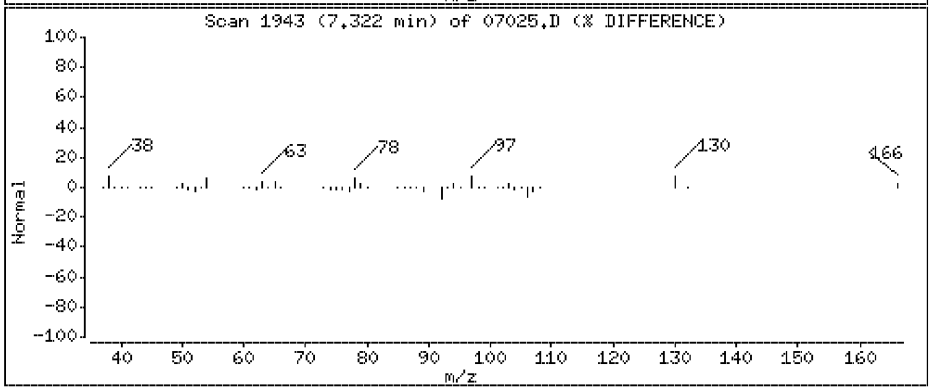












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

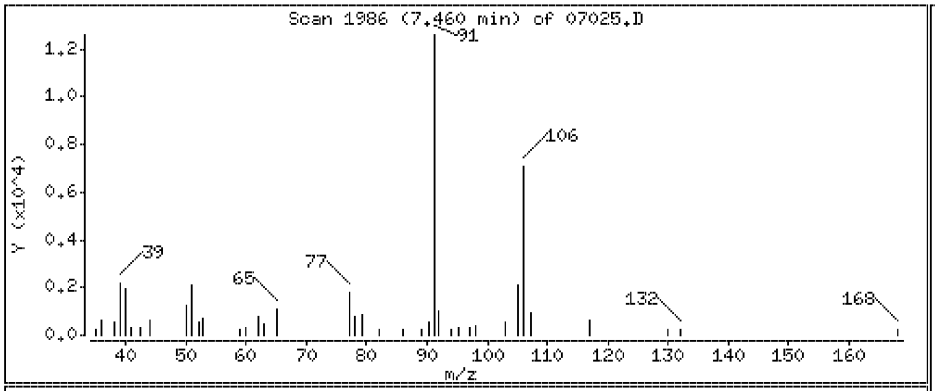
Operator: DR1

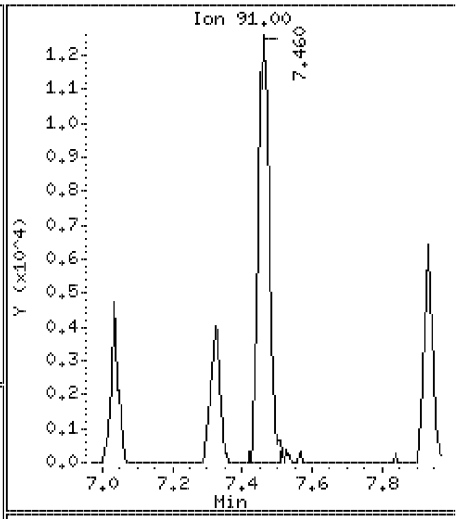
Column phase: J&W DB-5

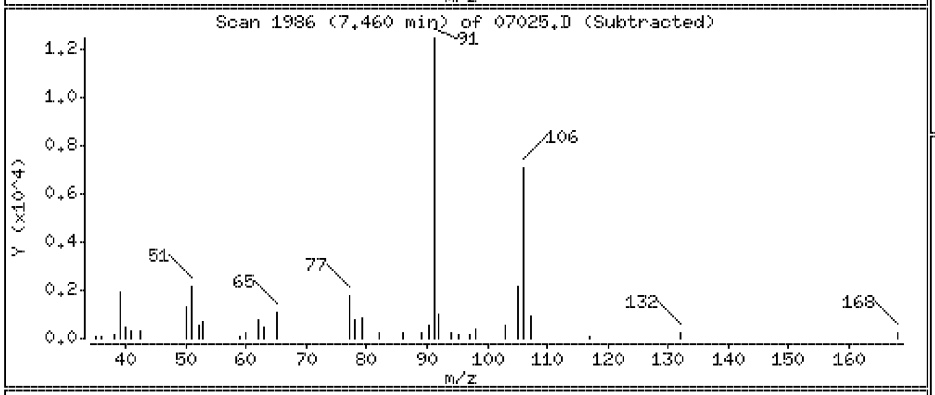
Column diameter: 0.32

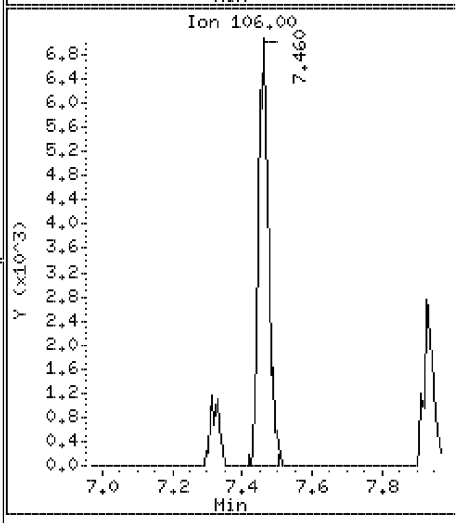
70 m&p-Xylene

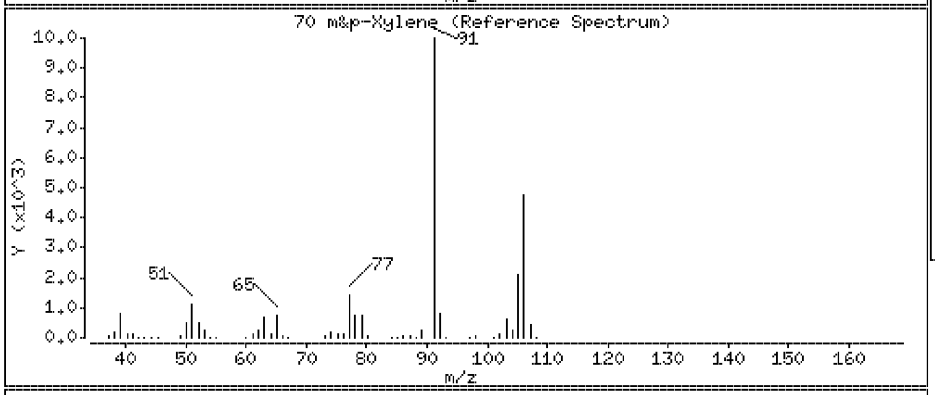
Concentration: 0.345 ppbv

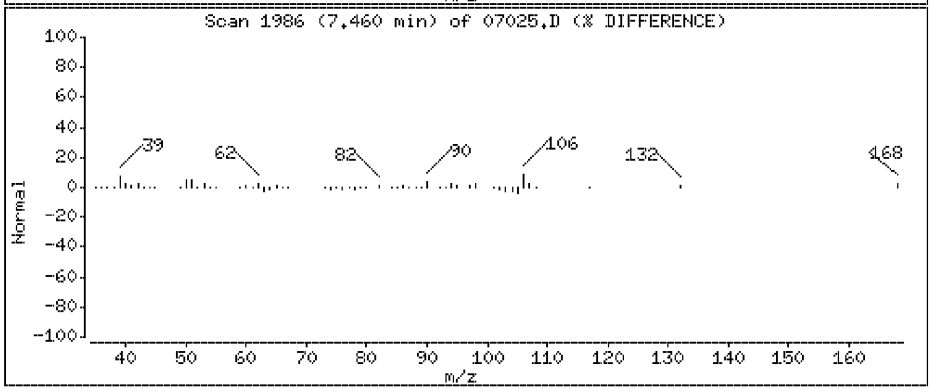












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

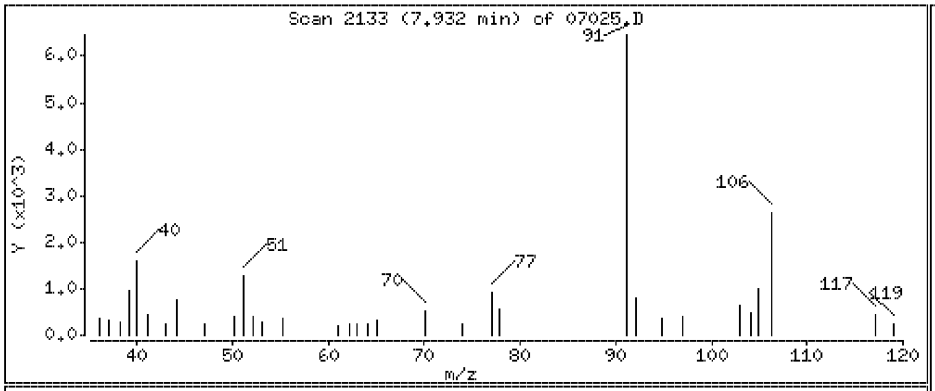
Operator: DR1

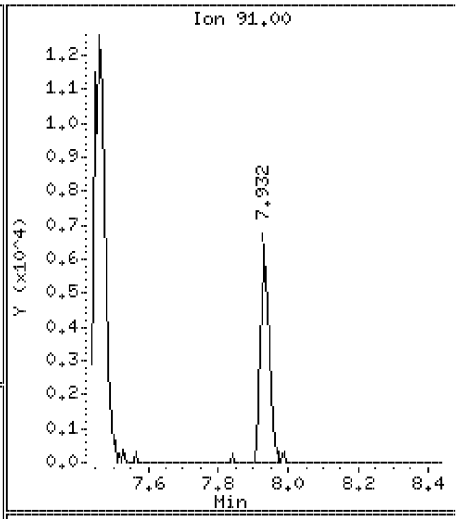
Column phase: J&W DB-5

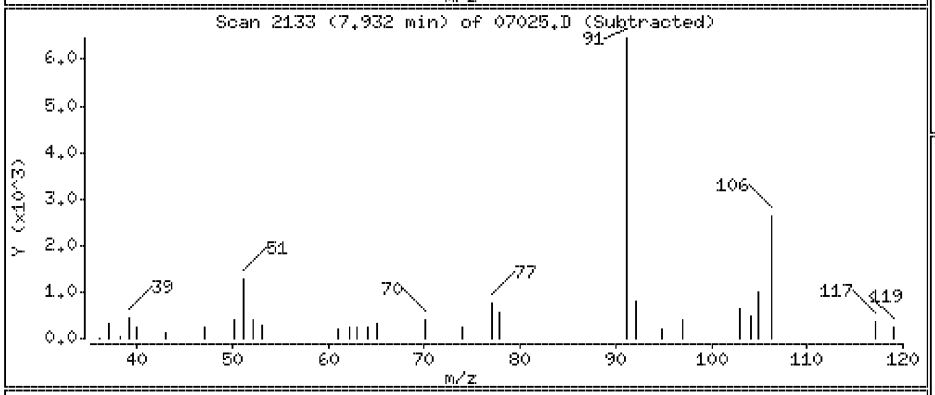
Column diameter: 0.32

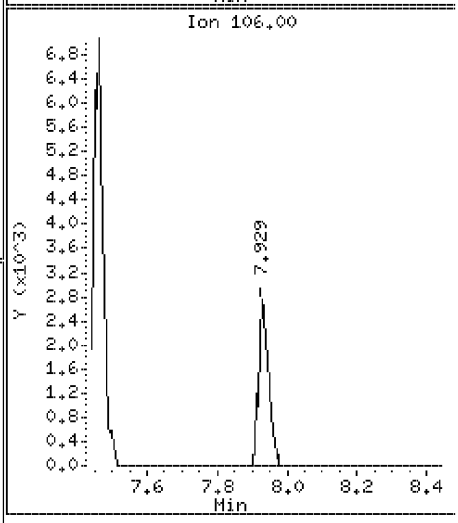
74 o-Xylene

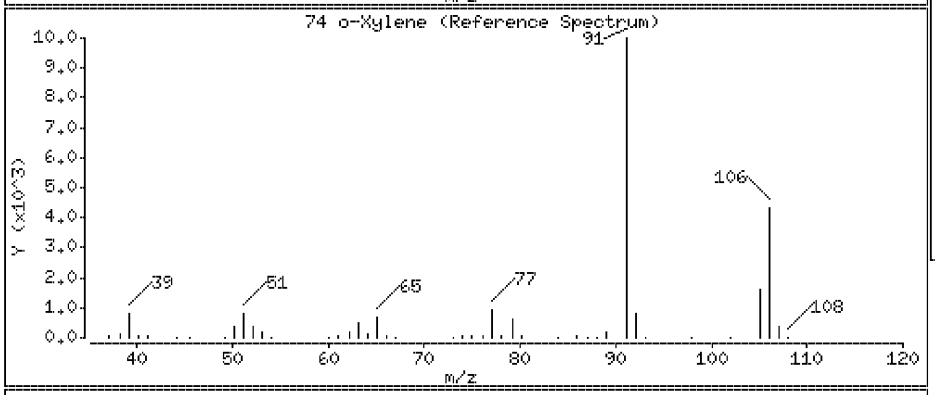
Concentration: 0.216 ppbv

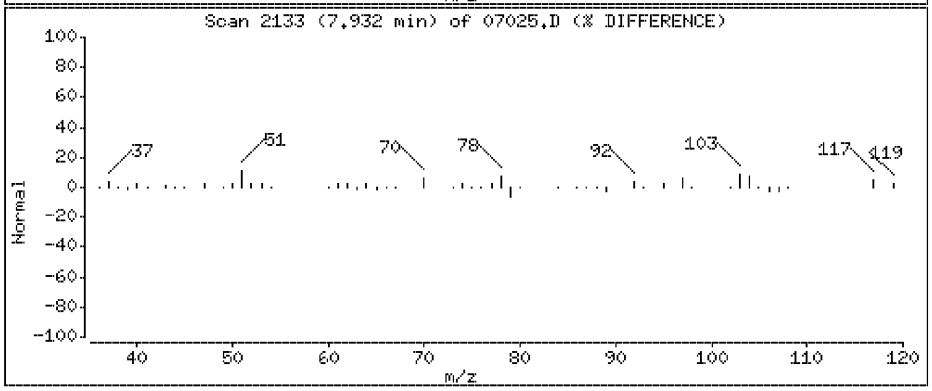












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

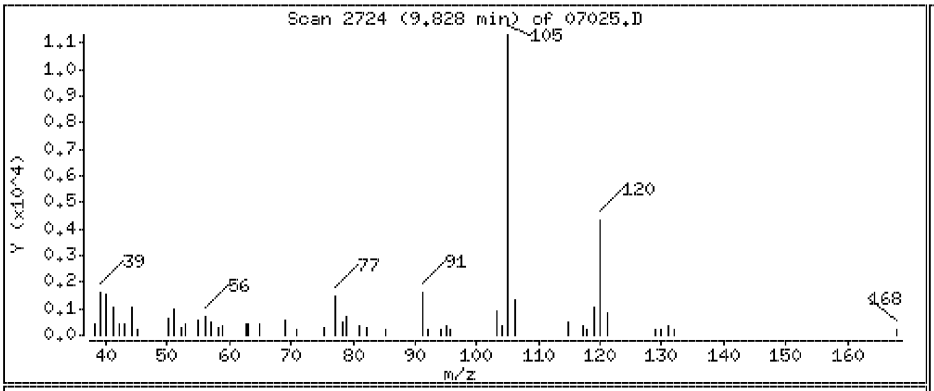
Operator: DR1

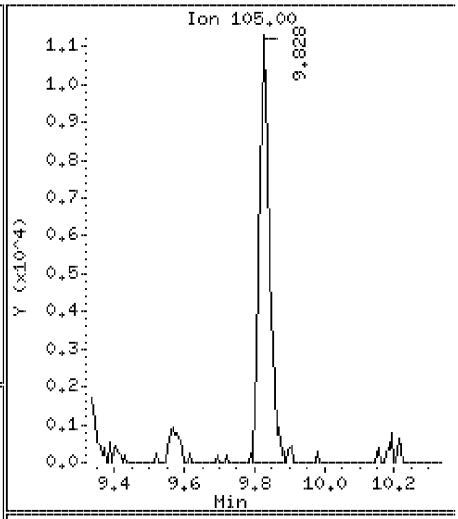
Column phase: J&W DB-5

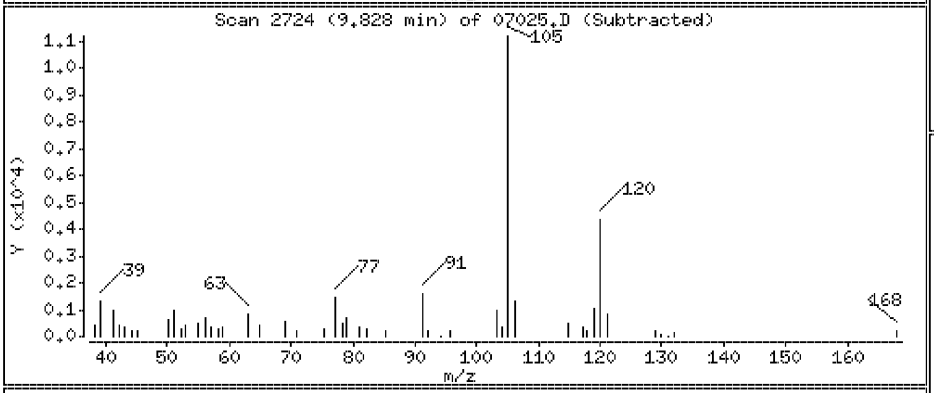
Column diameter: 0.32

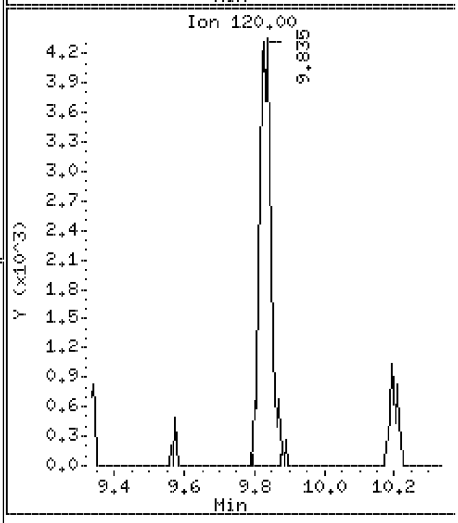
82 1,2,4-Trimethylbenzene

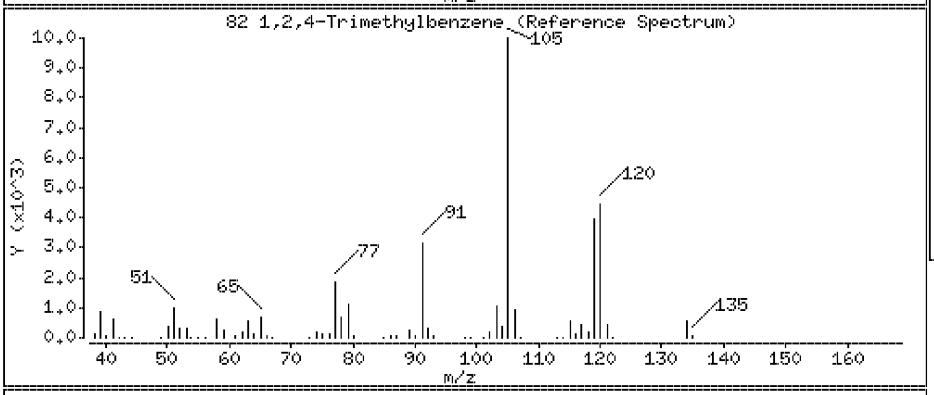
Concentration: 0.261 ppbv

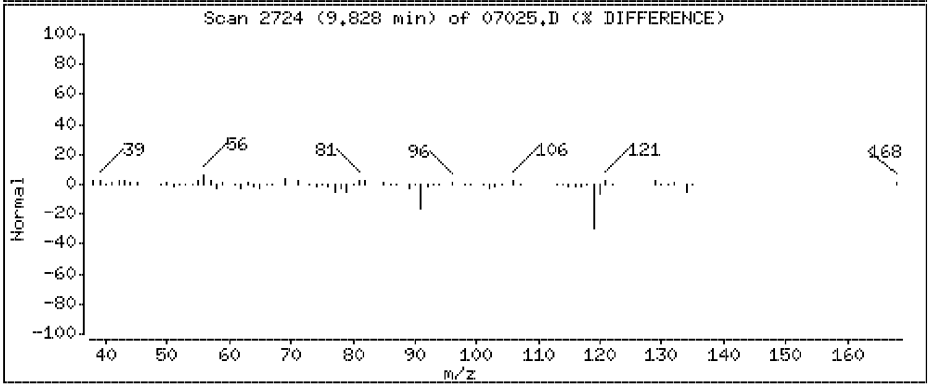












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07025.D

Date : 11-MAR-2017 22:49

Client ID:

Instrument: 10airD.i

Sample Info:

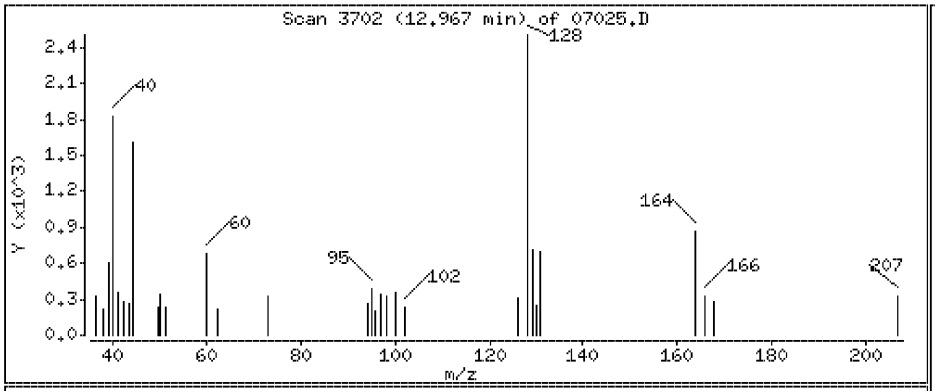
Operator: DR1

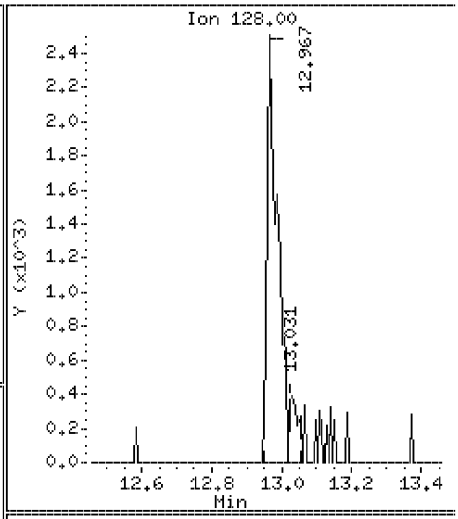
Column phase: J&W DB-5

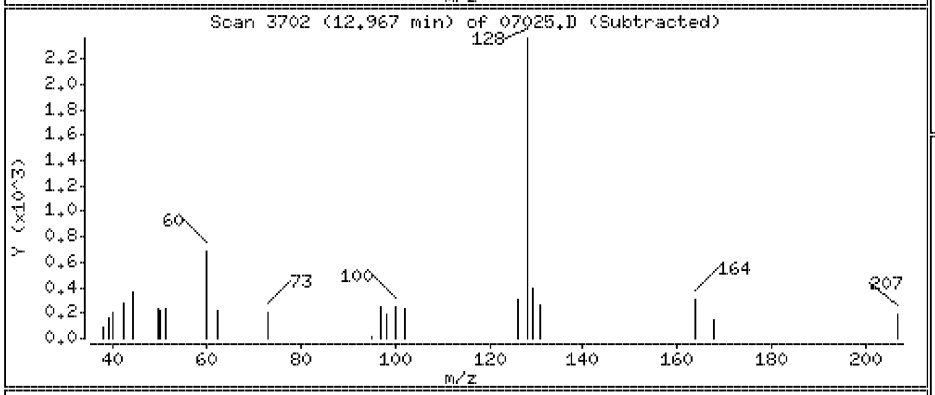
Column diameter: 0.32

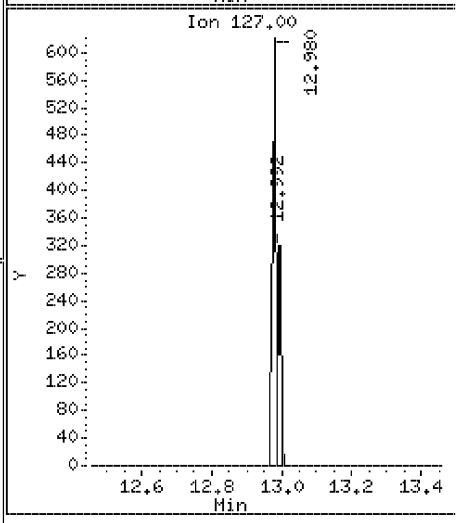
94 Naphthalene

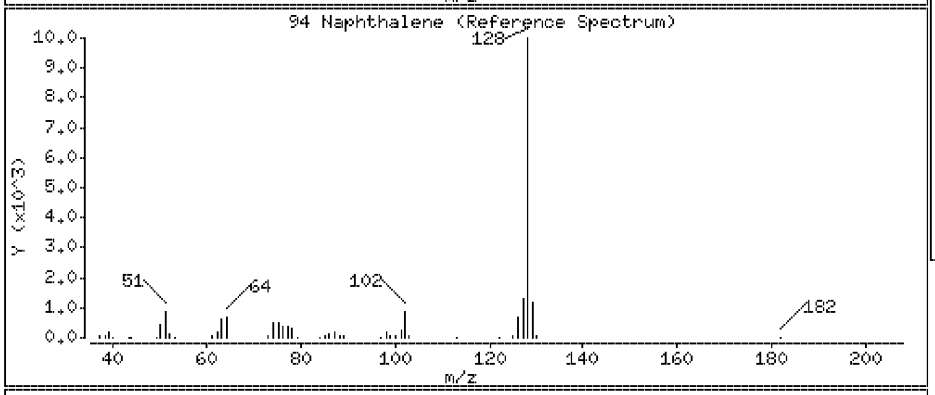
Concentration: 0.362 ppbv

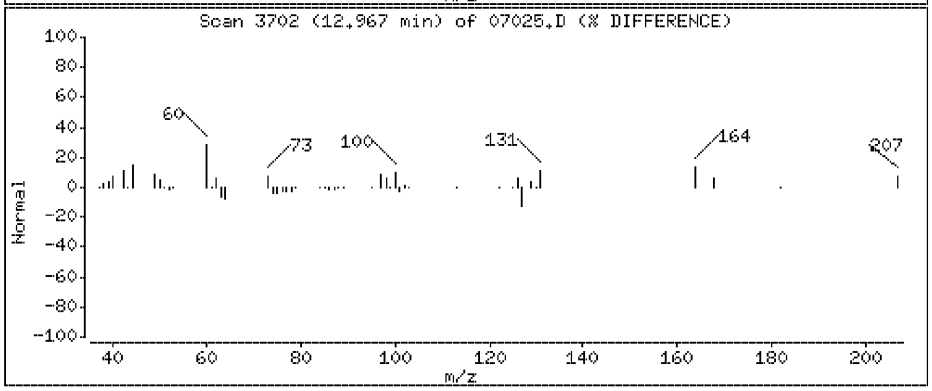






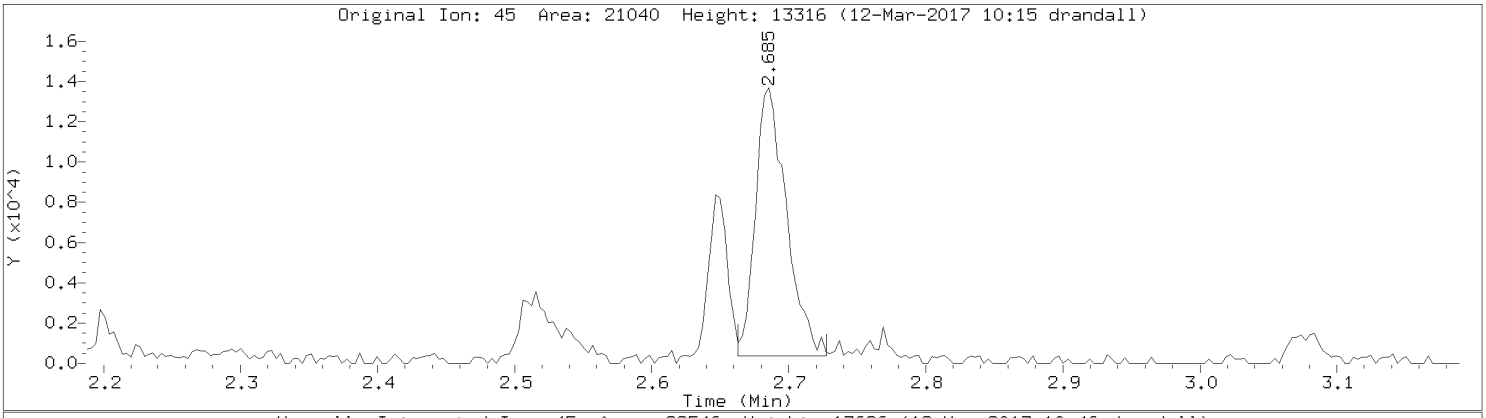


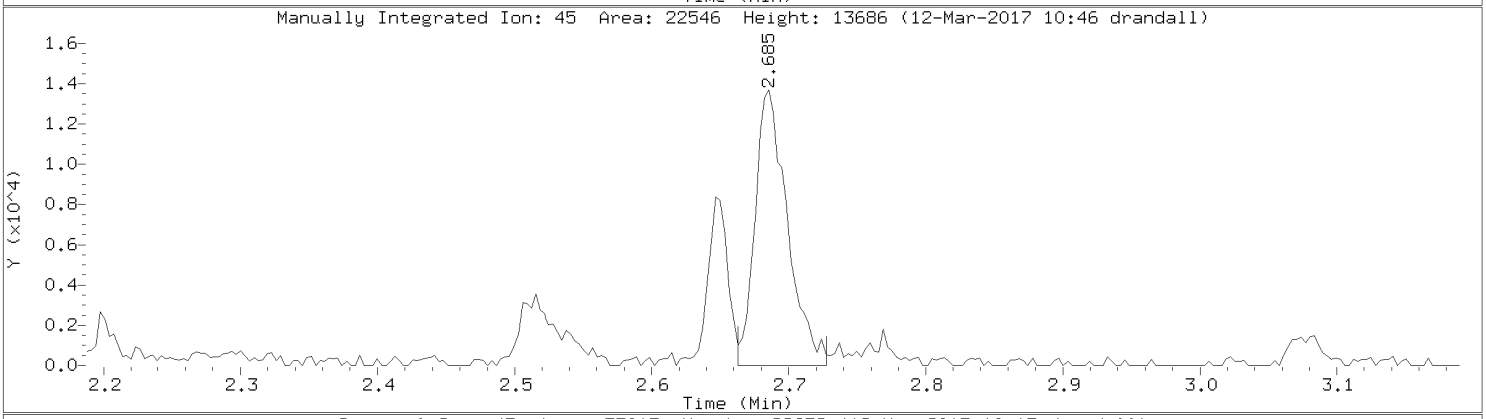


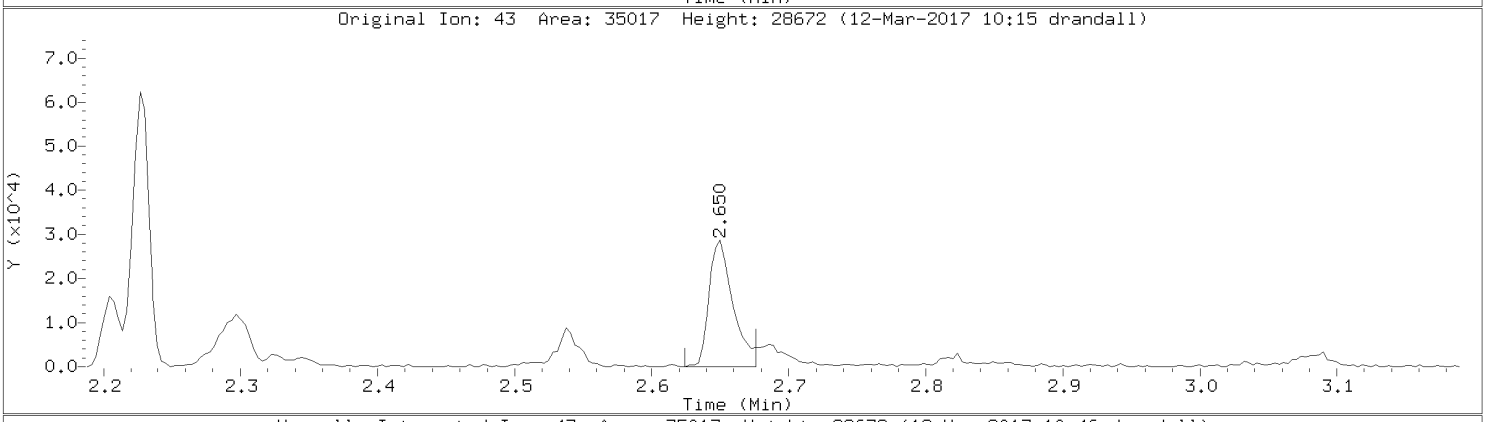


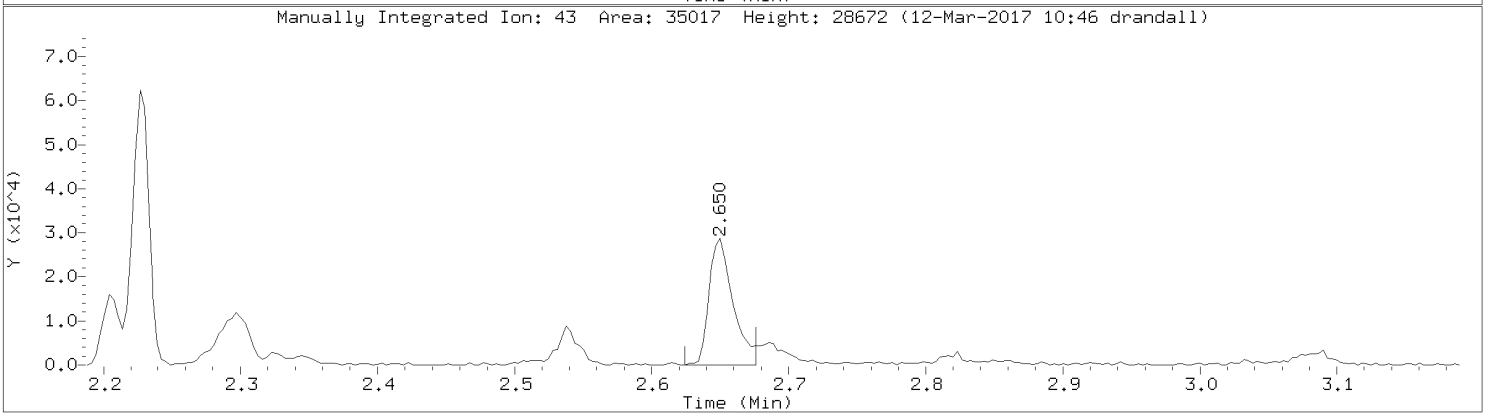
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07025.d
Injection Date: 11-MAR-2017 22:49
Instrument: 10airD.i
Lab Sample ID: 10380372017

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Data File: \\192.168.10.12\chem\10airD.i\031217.b\07115.d
Report Date: 13-Mar-2017 16:13

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031217.b\07115.d
Lab Smp Id: 10380372017
Inj Date : 12-MAR-2017 16:52
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Meth Date : 13-Mar-2017 12:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 15
Dil Factor: 153.60000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	153.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
	8 Vinyl chloride	62	Compound Not Detected.						
	18 Acetone	43	Compound Not Detected.						
	20 1,1-Dichloroethene	61	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						
$	32 Hexane-d14(S)	66	3.262	3.272	(0.770)	1465682	8.82530	8.83	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	3.455	3.471	(0.815)	6205	0.26884	41.3(Q)	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	4.238	4.251	(1.000)	3128315	10.0000		
	51 Trichloroethene	130	4.559	4.575	(1.076)	149730	3.96235	609	
$	59 Toluene-d8 (S)	98	5.560	5.566	(1.312)	2996226	9.55846	9.56	
	60 Toluene	91	Compound Not Detected.						
	66 Tetrachloroethene	166	6.401	6.407	(0.911)	226431	4.31412	663	
*	67 Chlorobenzene - d5	117	7.026	7.033	(1.000)	2374143	10.0000		
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07115.d
Report Date: 13-Mar-2017 16:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	82 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
$	85 1,4-dichlorobenzene-d4 (S)	150	10.190	10.200	(1.450)	1271208	8.73919	8.74

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07115.d
Report Date: 13-Mar-2017 16:13

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07115.d
Lab Smp Id: 10380372017
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 12-MAR-2017
Calibration Time: 10:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

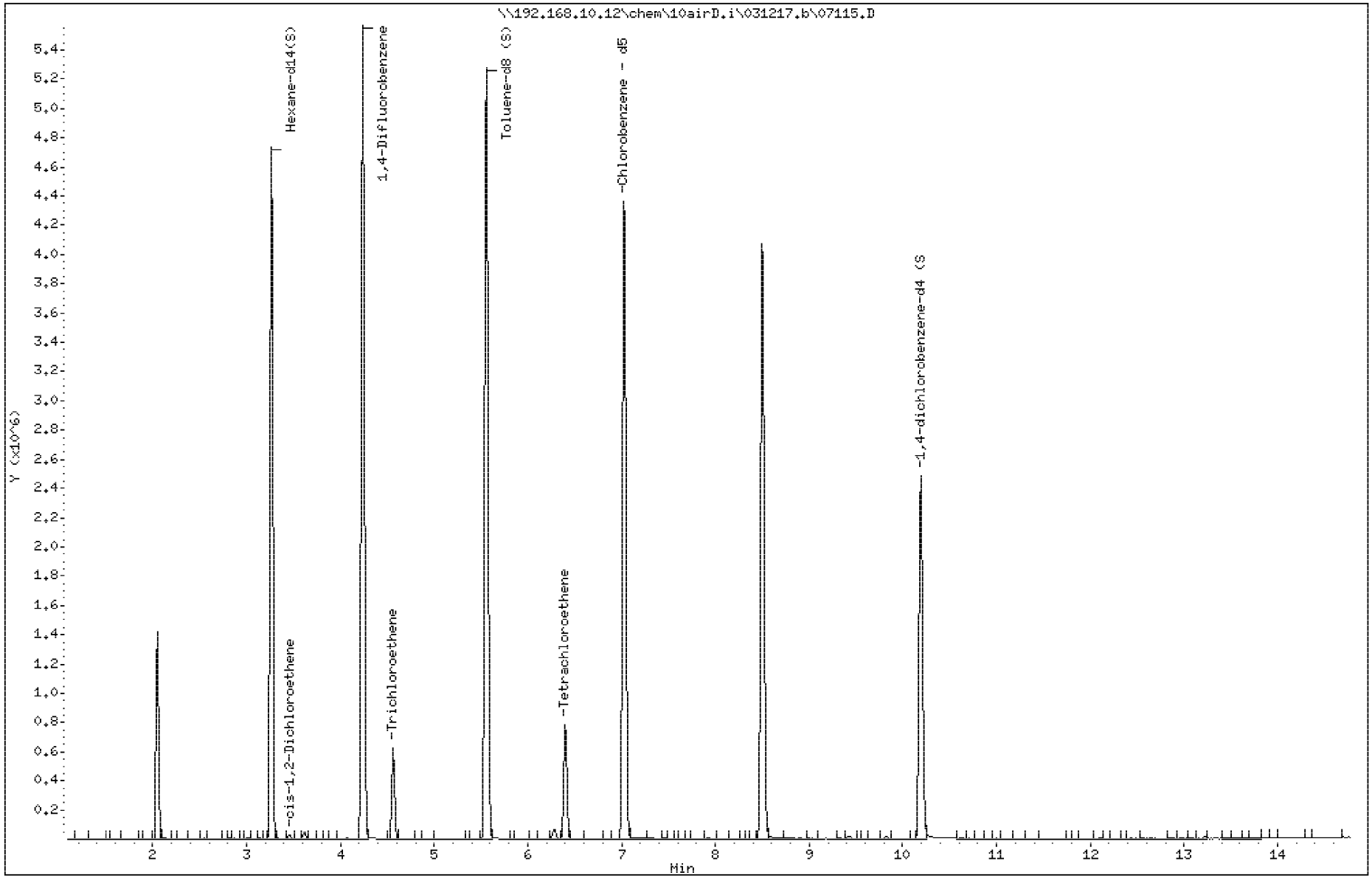
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3128315	-17.41
67 Chlorobenzene - d	3280875	1968525	4593225	2374143	-27.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.30
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07115.D
Date : 12-MAR-2017 16:52
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07115.D

Date : 12-MAR-2017 16:52

Client ID:

Instrument: 10airD.i

Sample Info:

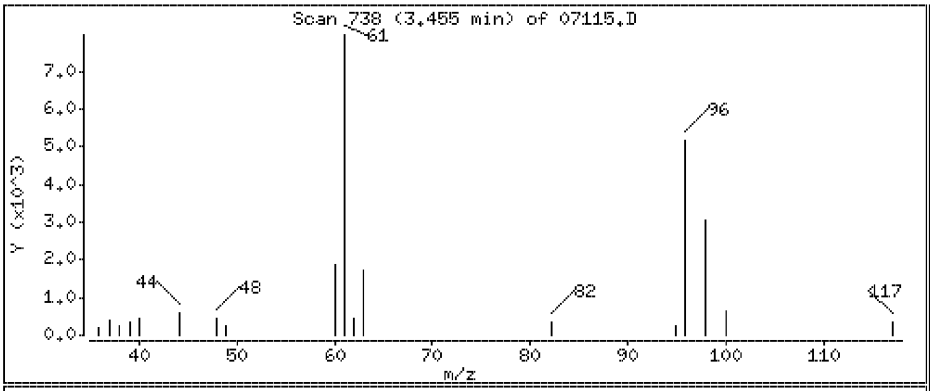
Operator: EMC

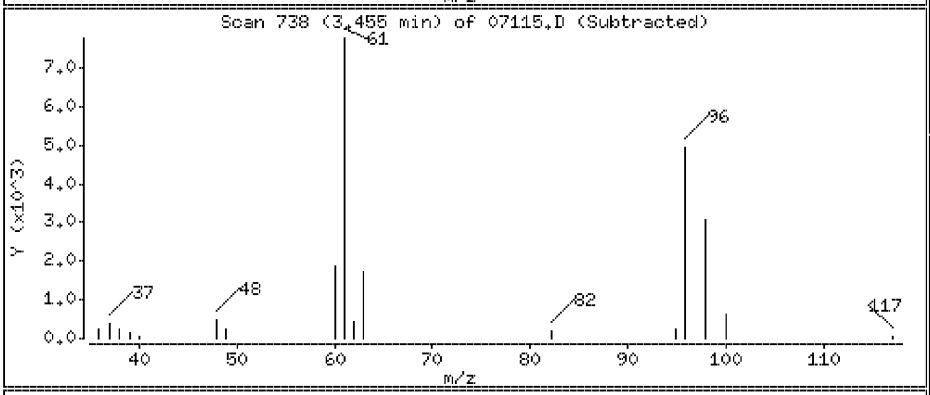
Column phase: J&W DB-5

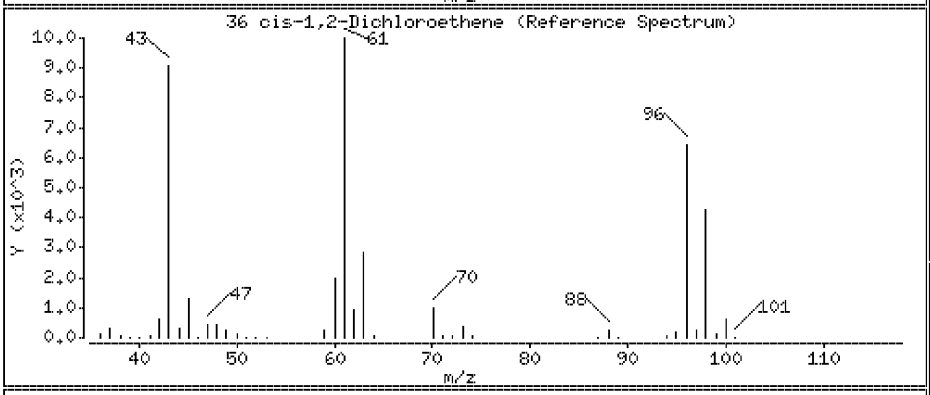
Column diameter: 0.32

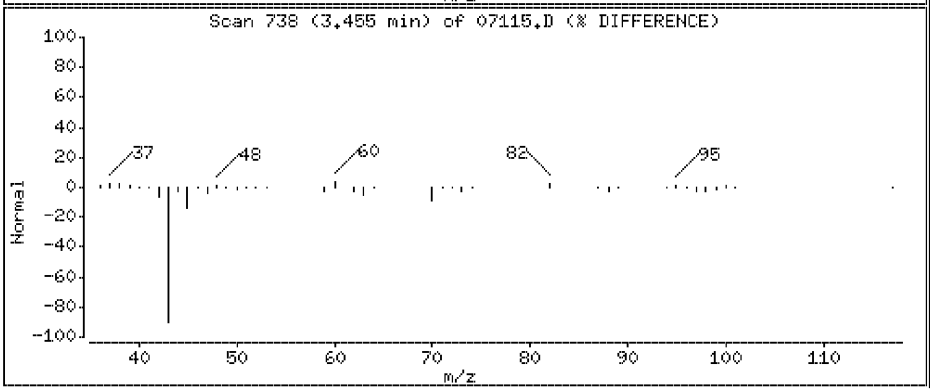
36 cis-1,2-Dichloroethene

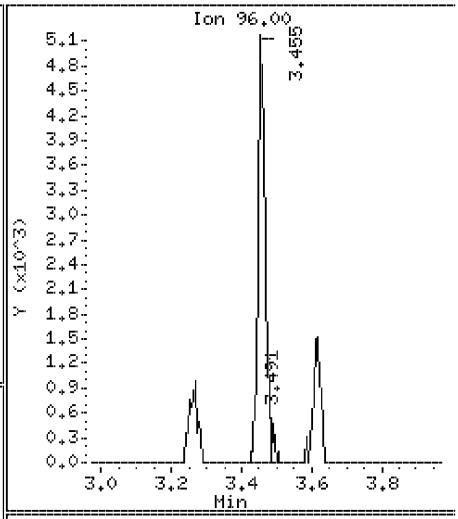
Concentration: 41.3 ppbv

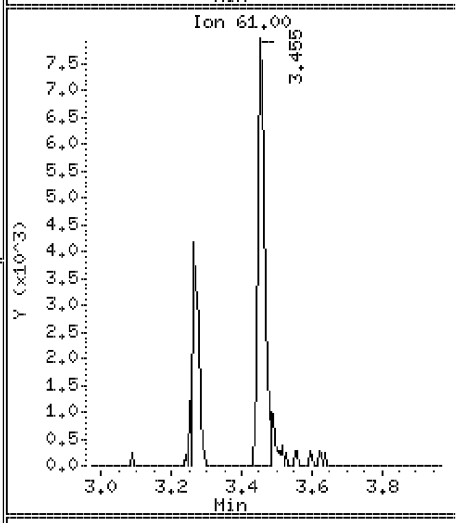


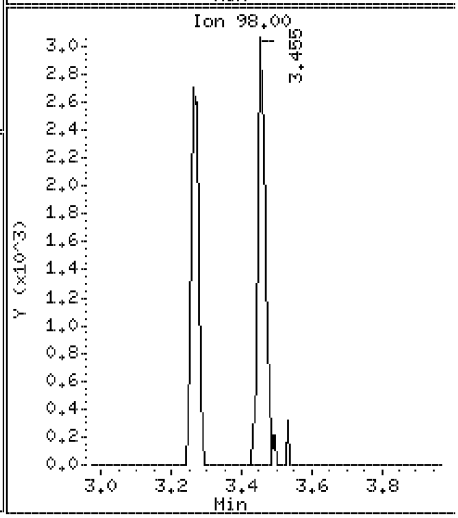












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07115.D

Date : 12-MAR-2017 16:52

Client ID:

Instrument: 10airD.i

Sample Info:

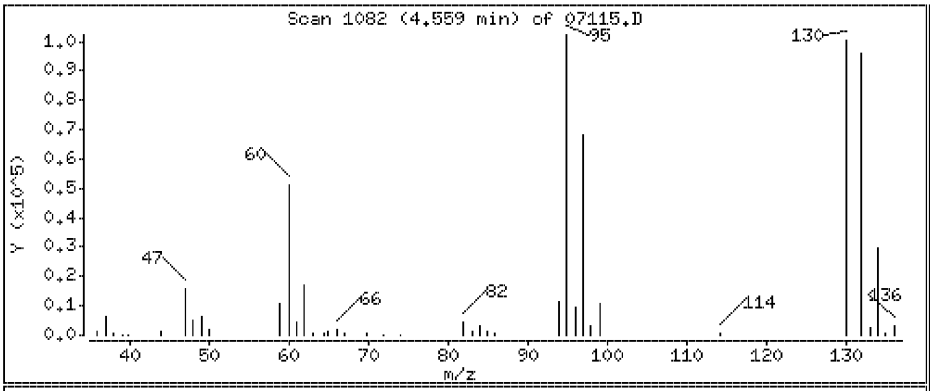
Operator: EMC

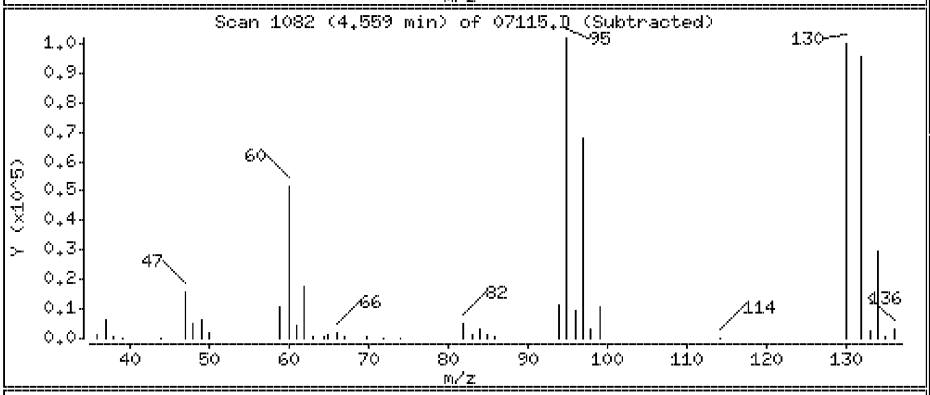
Column phase: J&W DB-5

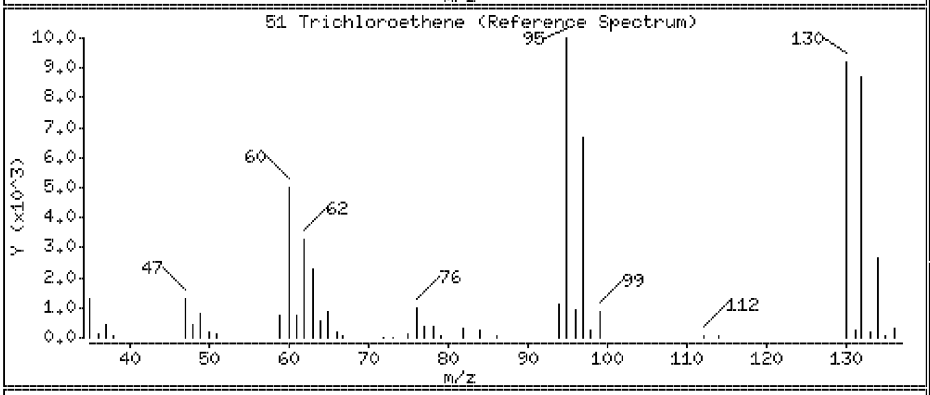
Column diameter: 0.32

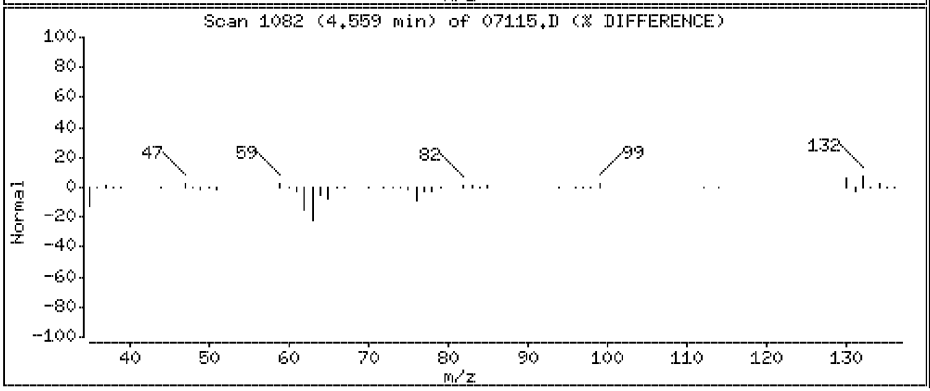
51 Trichloroethene

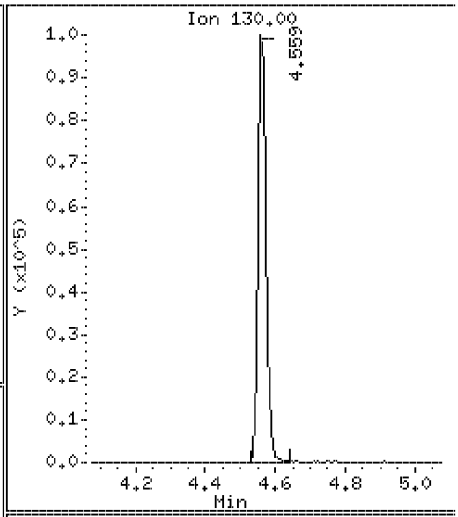
Concentration: 609 ppbv

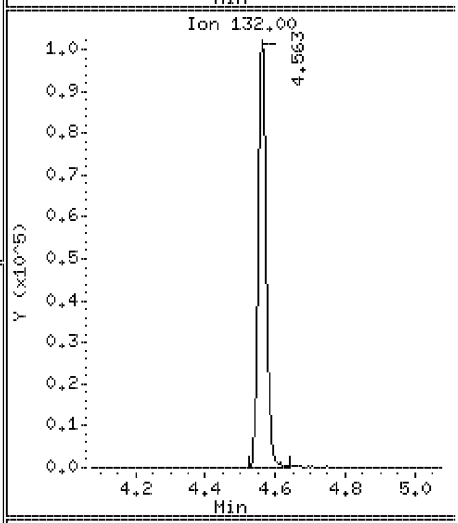


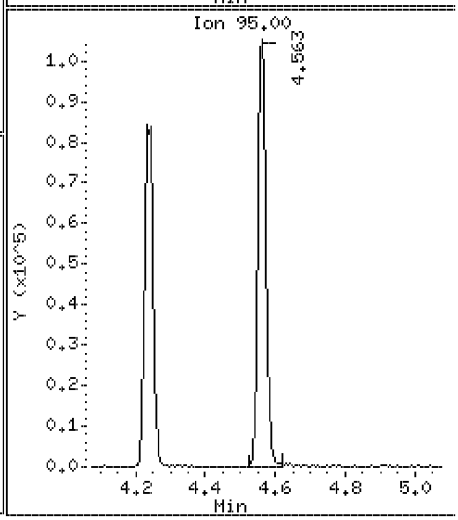












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07115.D

Date : 12-MAR-2017 16:52

Client ID:

Instrument: 10airD.i

Sample Info:

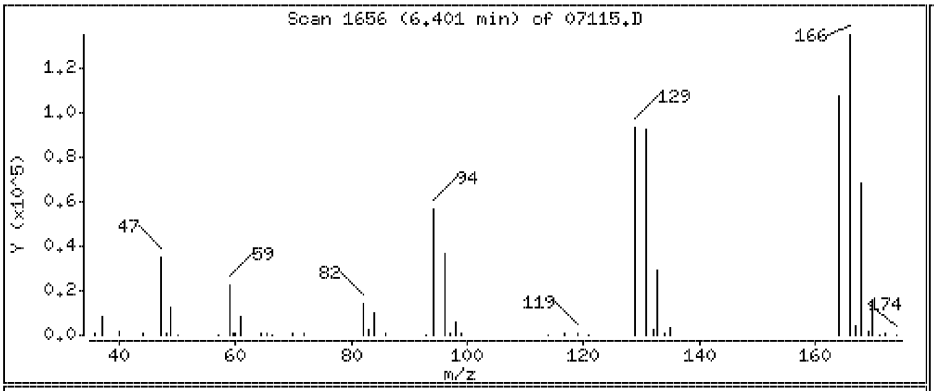
Operator: EMC

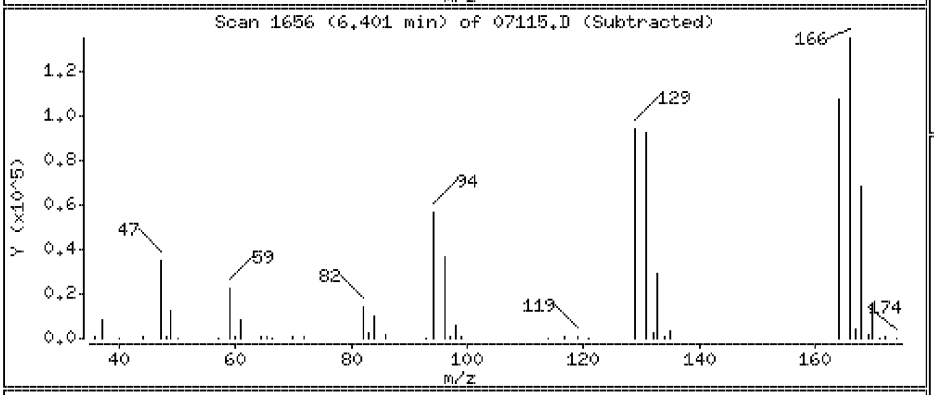
Column phase: J&W DB-5

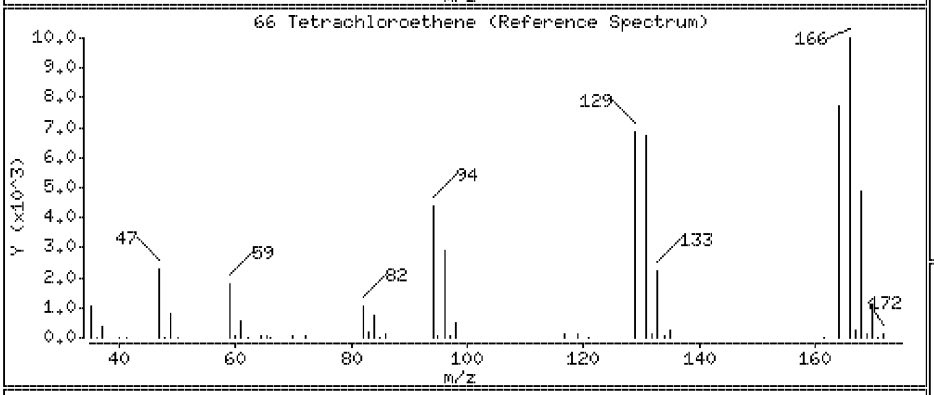
Column diameter: 0.32

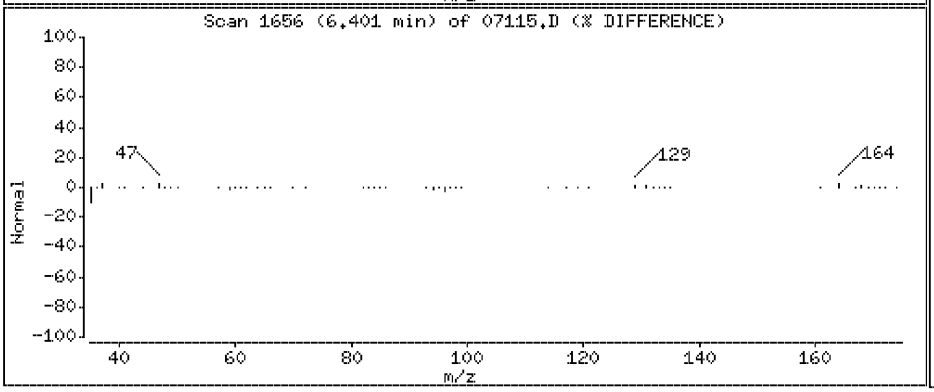
66 Tetrachloroethene

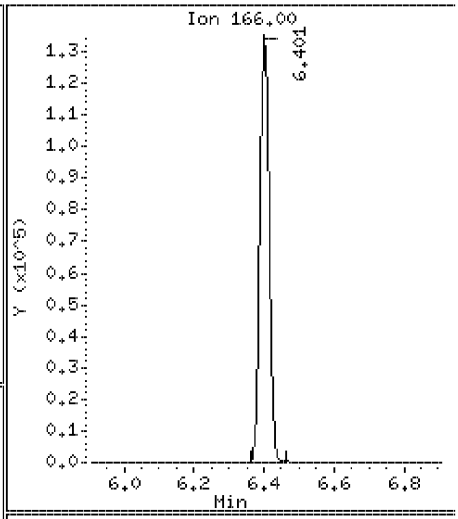
Concentration: 663 ppbv

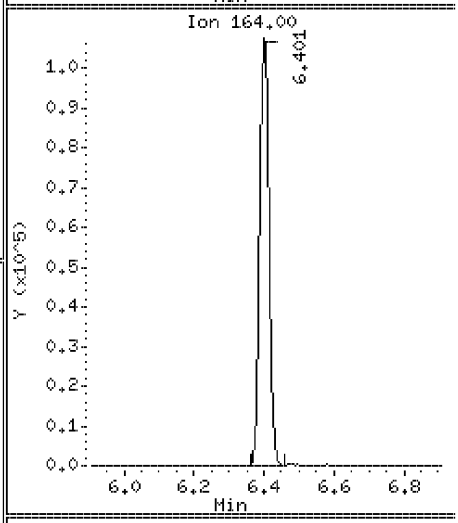


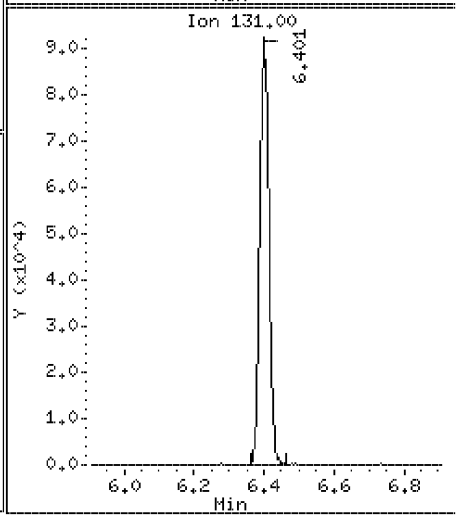












Data File: \\192.168.10.12\chem\10airD.i\031217.b/07115.d
Injection Date: 12-MAR-2017 16:52
Instrument: 10airD.i
Lab Sample ID: 10380372017
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_20_20170226 **Lab ID: 10380372017** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**4.2J**	ug/m3	4.8	0.46	1.92		03/11/17 22:49	67-63-0	
Styrene	**0.37U**	ug/m3	1.7	0.37	1.92		03/11/17 22:49	100-42-5	
1,1,2,2-Tetrachloroethane	**0.63U**	ug/m3	1.3	0.63	1.92		03/11/17 22:49	79-34-5	
Tetrachloroethene	**4570**	ug/m3	106	42.7	153.6		03/12/17 16:52	127-18-4	
Toluene	**1.0J**	ug/m3	1.5	0.30	1.92		03/11/17 22:49	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	7.2	1.7	1.92		03/11/17 22:49	120-82-1	
1,1,1-Trichloroethane	**0.47U**	ug/m3	2.1	0.47	1.92		03/11/17 22:49	71-55-6	
1,1,2-Trichloroethane	**0.47U**	ug/m3	1.1	0.47	1.92		03/11/17 22:49	79-00-5	
Trichloroethene	**3320**	ug/m3	84.5	42.4	153.6		03/12/17 16:52	79-01-6	A3
Trichlorofluoromethane	**2.5**	ug/m3	2.2	0.25	1.92		03/11/17 22:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**50.0**	ug/m3	3.1	0.58	1.92		03/11/17 22:49	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.9	0.24	1.92		03/11/17 22:49	95-63-6	
1,3,5-Trimethylbenzene	**0.35U**	ug/m3	1.9	0.35	1.92		03/11/17 22:49	108-67-8	
Vinyl chloride	**0.37U**	ug/m3	0.50	0.37	1.92		03/11/17 22:49	75-01-4	
m&p-Xylene	**1.5J**	ug/m3	3.4	1.5	1.92		03/11/17 22:49	179601-23-1	
o-Xylene	**0.95J**	ug/m3	1.7	0.67	1.92		03/11/17 22:49	95-47-6	

Sample: LIJ-VP-7_40_20170226 **Lab ID: 10380372018** Collected: 02/26/17 13:37 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.4**	ug/m3	10.6	1.5	1.75		03/11/17 23:18	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/11/17 23:18	107-05-1	
Benzene	**2.5**	ug/m3	0.57	0.21	1.75		03/11/17 23:18	71-43-2	
Bromodichloromethane	**0.34U**	ug/m3	2.4	0.34	1.75		03/11/17 23:18	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/11/17 23:18	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/11/17 23:18	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/11/17 23:18	106-99-0	
2-Butanone (MEK)	**2.1J**	ug/m3	5.2	0.40	1.75		03/11/17 23:18	78-93-3	
Carbon disulfide	**1.1**	ug/m3	1.1	0.18	1.75		03/11/17 23:18	75-15-0	
Carbon tetrachloride	**2.4**	ug/m3	1.1	0.34	1.75		03/11/17 23:18	56-23-5	CH
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/11/17 23:18	108-90-7	
Chlorodifluoromethane	**0.48U**	ug/m3	1.3	0.48	1.75		03/11/17 23:18	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/11/17 23:18	75-00-3	
Chloroform	**136**	ug/m3	0.87	0.33	1.75		03/11/17 23:18	67-66-3	
Chloromethane	**0.19U**	ug/m3	0.74	0.19	1.75		03/11/17 23:18	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 23:18	76-15-3	CL
Cyclohexane	**2.4**	ug/m3	1.2	0.55	1.75		03/11/17 23:18	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/11/17 23:18	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/11/17 23:18	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/11/17 23:18	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/11/17 23:18	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/11/17 23:18	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_40_20170226 **Lab ID: 10380372018** Collected: 02/26/17 13:37 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/11/17 23:18	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.8	0.84	1.75		03/11/17 23:18	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/11/17 23:18	75-34-3	
1,2-Dichloroethane	**1.0**	ug/m3	0.72	0.36	1.75		03/11/17 23:18	107-06-2	
1,1-Dichloroethene	**2.4**	ug/m3	1.4	0.42	1.75		03/11/17 23:18	75-35-4	
cis-1,2-Dichloroethene	**5200**	ug/m3	907	276	1120		03/12/17 18:01	156-59-2	A3
trans-1,2-Dichloroethene	**48.4**	ug/m3	1.4	0.67	1.75		03/11/17 23:18	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/11/17 23:18	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/11/17 23:18	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/11/17 23:18	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/11/17 23:18	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 23:18	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/11/17 23:18	123-91-1	
Ethylbenzene	**1.2J**	ug/m3	1.5	0.74	1.75		03/11/17 23:18	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/11/17 23:18	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/11/17 23:18	87-68-3	
n-Hexane	**3.7**	ug/m3	1.3	0.62	1.75		03/11/17 23:18	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/11/17 23:18	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/11/17 23:18	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/11/17 23:18	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/11/17 23:18	108-87-2	
Methylene Chloride	**1.5J**	ug/m3	6.2	0.95	1.75		03/11/17 23:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/11/17 23:18	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/11/17 23:18	1634-04-4	
2-Propanol	**7.4**	ug/m3	4.4	0.42	1.75		03/11/17 23:18	67-63-0	
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/11/17 23:18	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/11/17 23:18	79-34-5	
Tetrachloroethene	**13400**	ug/m3	772	311	1120		03/12/17 18:01	127-18-4	
Toluene	**2.4**	ug/m3	1.3	0.27	1.75		03/11/17 23:18	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/11/17 23:18	120-82-1	
1,1,1-Trichloroethane	**2.0**	ug/m3	1.9	0.43	1.75		03/11/17 23:18	71-55-6	
1,1,2-Trichloroethane	**9.2**	ug/m3	0.96	0.43	1.75		03/11/17 23:18	79-00-5	
Trichloroethene	**18000**	ug/m3	616	309	1120		03/12/17 18:01	79-01-6	
Trichlorofluoromethane	**3.4**	ug/m3	2.0	0.23	1.75		03/11/17 23:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	**62.7**	ug/m3	2.8	0.53	1.75		03/11/17 23:18	76-13-1	
1,2,4-Trimethylbenzene	**1.1J**	ug/m3	1.7	0.22	1.75		03/11/17 23:18	95-63-6	
1,3,5-Trimethylbenzene	**0.57J**	ug/m3	1.7	0.32	1.75		03/11/17 23:18	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/11/17 23:18	75-01-4	
m&p-Xylene	**1.8J**	ug/m3	3.1	1.4	1.75		03/11/17 23:18	179601-23-1	
o-Xylene	**0.84J**	ug/m3	1.5	0.61	1.75		03/11/17 23:18	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.d
Report Date: 13-Mar-2017 11:02

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07026.d
Lab Smp Id: 10380372018
Inj Date : 11-MAR-2017 23:18
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 26
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.152	2.181	(0.505)	22873	0.30572	0.535	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	2.515	2.534	(0.590)	10905	2.08727	3.65(H)	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	2.544	2.572	(0.597)	84762	2.59988	4.55(QH)	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	2.605	2.630	(0.611)	26427	0.33765	0.591	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.659	2.666	(0.624)	190948	3.87518	6.78	
19	Isopropyl Alcohol	45	2.688	2.704	(0.630)	44884	1.69316	2.96(Q)	
20	1,1-Dichloroethene	61	2.791	2.820	(0.655)	15546	0.33351	0.584	
21	Acrylonitrile	53	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	2.823	2.848	(0.662)	282337	4.60118	8.05	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.d
Report Date: 13-Mar-2017 11:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
25	Methylene chloride	49	2.868	2.897	(0.673)	20133	0.24411	0.427	
26	Allyl Chloride	76	Compound Not Detected.						
27	Carbon Disulfide	76	2.961	2.986	(0.694)	13418	0.20309	0.355	
28	trans-1,2-dichloroethene	96	3.083	3.115	(0.723)	152085	6.86143	12.0	
29	Methyl Tert Butyl Ether	73	Compound Not Detected.						
30	Vinyl Acetate	43	Compound Not Detected.						(D)
31	1,1-Dichloroethane	63	Compound Not Detected.						(D)
$ 32	Hexane-d14(S)	66	3.272	3.291	(0.767)	1503544	8.32254	8.32	
33	Methyl Ethyl Ketone	72	3.371	3.362	(0.791)	4344	0.40149	0.703(Q)	
34	n-Hexane	57	3.352	3.372	(0.786)	23312	0.59593	1.04(Q)	
35	Di-isopropyl Ether	45	Compound Not Detected.						
36	cis-1,2-Dichloroethene	96	3.471	3.490	(0.814)	4712397	187.693	328(AQ)	
37	Ethyl Acetate	43	Compound Not Detected.						(D)
38	Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
39	Chloroform	83	3.567	3.590	(0.837)	994403	15.6834	27.4	
40	Tetrahydrofuran	42	Compound Not Detected.						(D)
41	1,1,1-Trichloroethane	97	3.914	3.920	(0.918)	12973	0.20340	0.356	
42	1,2-Dichloroethane	62	3.927	3.933	(0.921)	6582	0.14208	0.249	
43	Benzene	78	4.126	4.126	(0.968)	33206	0.44342	0.776	
45	Carbon tetrachloride	117	4.129	4.138	(0.968)	12921	0.21523	0.377	
44	Cyclohexane	56	4.126	4.138	(0.968)	15032	0.38883	0.680(Q)	
46	Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
* 47	1,4-Difluorobenzene	114	4.264	4.267	(1.000)	3402989	10.0000		
48	2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
49	Heptane	43	Compound Not Detected.						(D)
50	1,2-Dichloropropane	63	Compound Not Detected.						(D)
51	Trichloroethene	130	4.588	4.591	(1.076)	7411409	180.300	316(A)	
52	Methyl methacrylate	69	Compound Not Detected.						(D)
53	Bromodichloromethane	83	Compound Not Detected.						(D)
54	1,4-Dioxane	88	Compound Not Detected.						
55	Methylcyclohexane	98	Compound Not Detected.						(D)
56	Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
57	cis-1,3-Dichloropropene	75	Compound Not Detected.						
58	trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$ 59	Toluene-d8 (S)	98	5.579	5.579	(1.309)	2988785	8.76512	8.77	
60	Toluene	91	5.653	5.650	(1.326)	36640	0.36422	0.637	
61	1,1,2-Trichloroethane	97	5.653	5.659	(1.326)	37101	0.95250	1.67	
62	Methyl Butyl Ketone	43	5.923	5.894	(0.841)	2249	0.04102	0.0718(a)	
63	n-Octane	43	Compound Not Detected.						(D)
64	Dibromochloromethane	129	Compound Not Detected.						
65	1,2-Dibromoethane	107	Compound Not Detected.						
66	Tetrachloroethene	166	6.430	6.417	(0.913)	7788731	153.357	268(AQ)	
* 67	Chlorobenzene - d5	117	7.042	7.042	(1.000)	2297342	10.0000		
68	Chlorobenzene	112	Compound Not Detected.						(D)
69	Ethyl Benzene	91	7.331	7.325	(1.041)	15620	0.15496	0.271	
70	m&p-Xylene	91	7.472	7.469	(1.061)	28485	0.23229	0.407	
71	Bromoform	173	Compound Not Detected.						
72	n-Nonane	43	Compound Not Detected.						
73	Styrene	104	Compound Not Detected.						
74	o-Xylene	91	7.941	7.938	(1.128)	9091	0.10939	0.191	
75	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
76	Isopropylbenzene	105	Compound Not Detected.						
77	N-Propylbenzene	91	Compound Not Detected.						
78	4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.d
Report Date: 13-Mar-2017 11:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	9.318	9.321	(1.323)	8448	0.06498	0.114	(M)
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	9.831	9.834	(1.396)	19153	0.13125	0.230	(H)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.197	10.203	(1.448)	1195888	8.49623	8.50	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.966	12.957	(1.841)	7045	0.29264	0.512	
95	Hexachlorobutadiene	225	Compound Not Detected.						(D)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.d
Report Date: 13-Mar-2017 11:02

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07026.d
Lab Smp Id: 10380372018
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 10:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

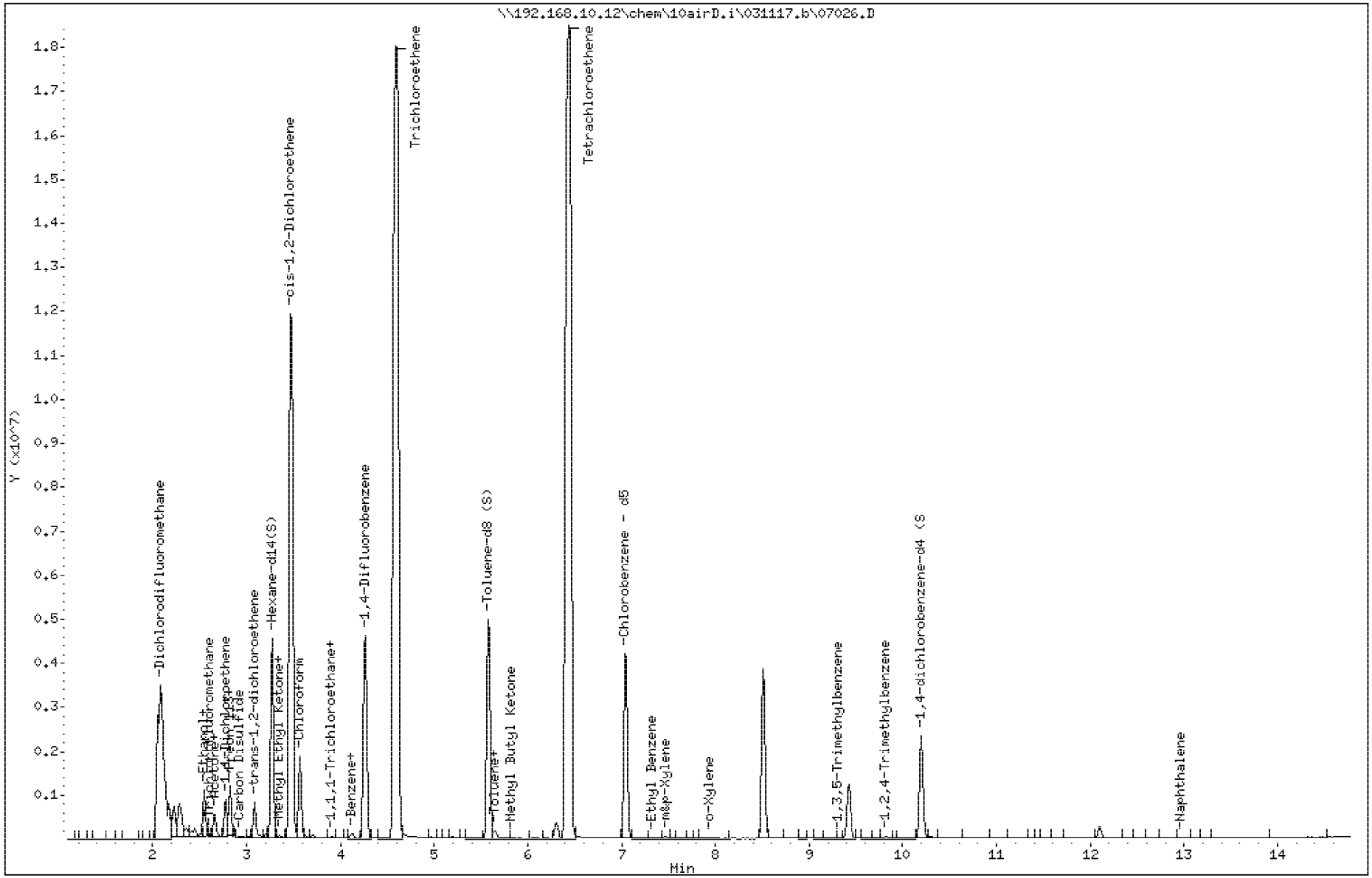
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3402989	-10.15
67 Chlorobenzene - d	3280875	1968525	4593225	2297342	-29.98

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.27	3.94	4.60	4.26	-0.08
67 Chlorobenzene - d	7.04	6.71	7.37	7.04	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D
Date : 11-MAR-2017 23:18
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

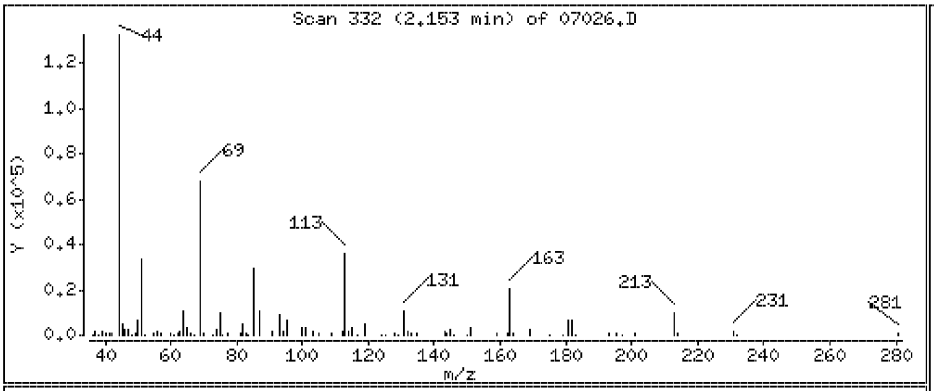
Operator: DR1

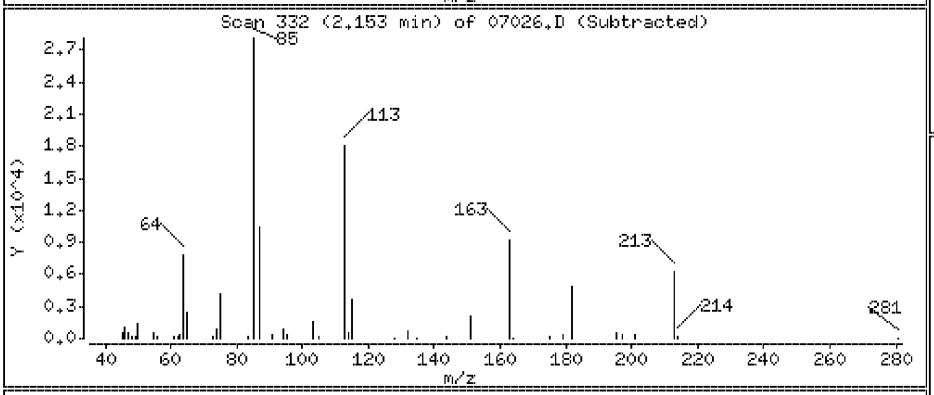
Column phase: J&W DB-5

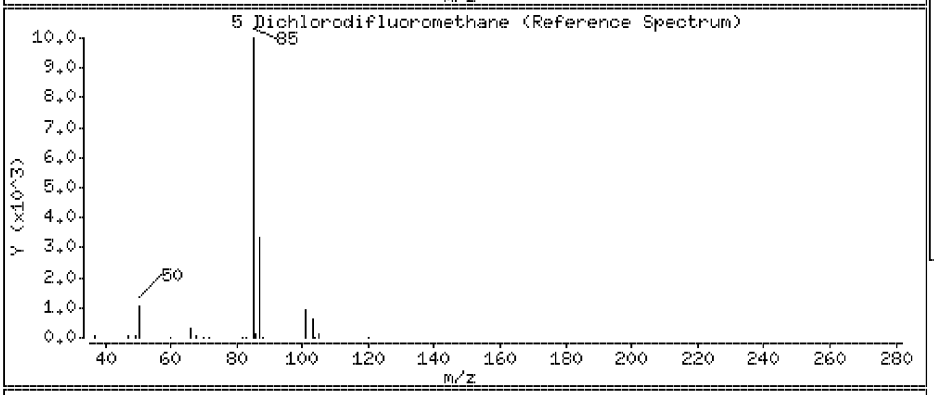
Column diameter: 0.32

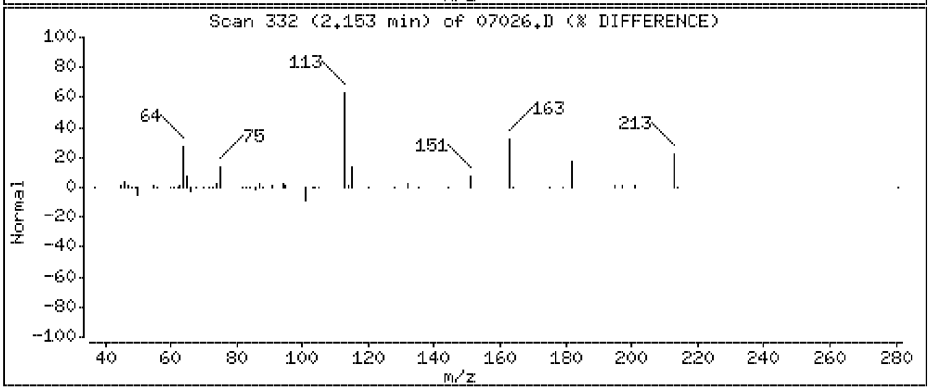
5 Dichlorodifluoromethane

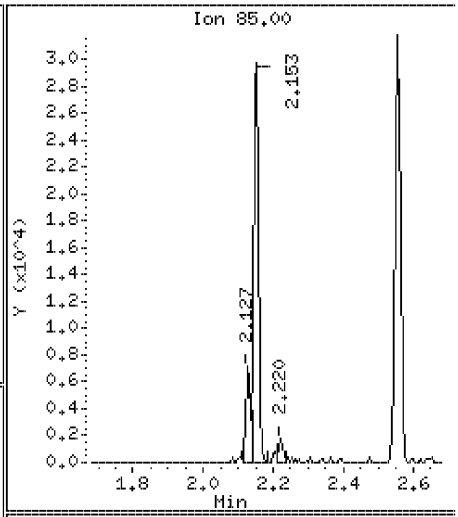
Concentration: 0.535 ppbv

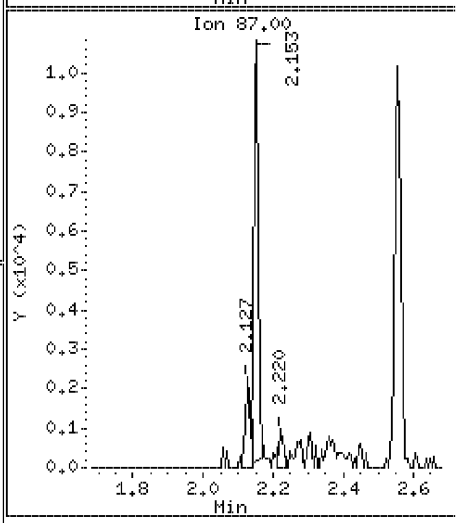












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

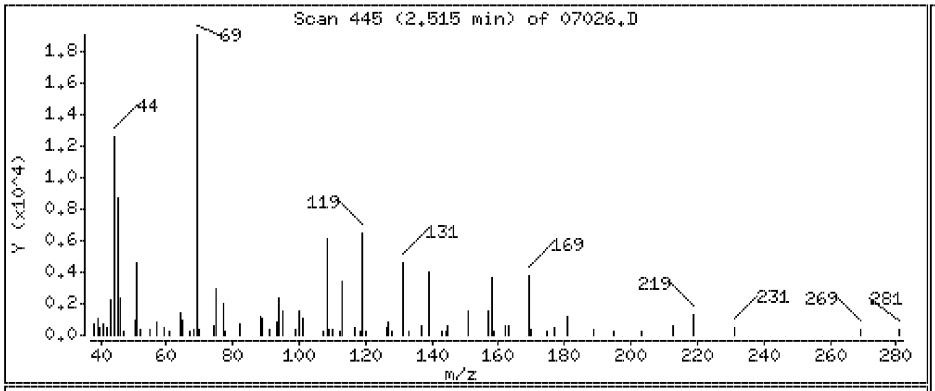
Operator: DR1

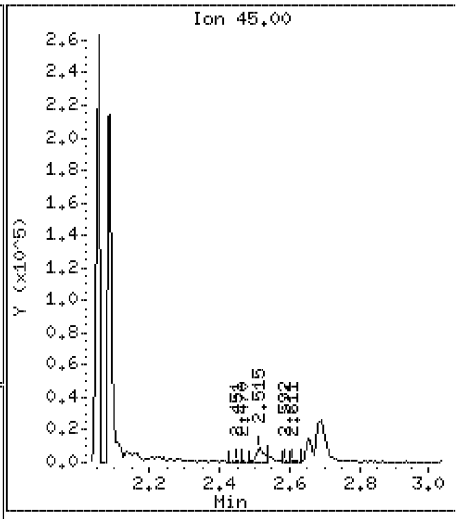
Column phase: J&W DB-5

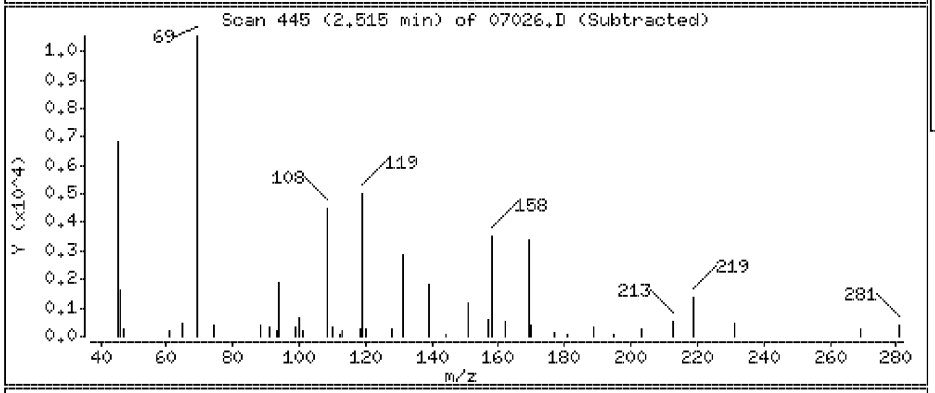
Column diameter: 0.32

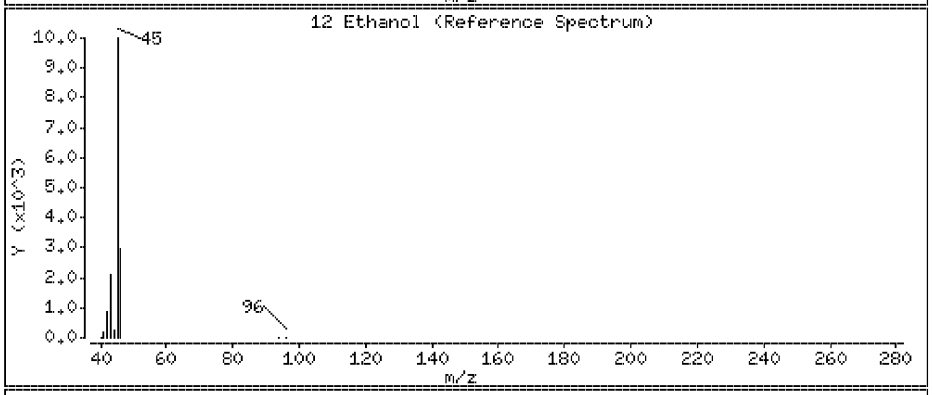
12 Ethanol

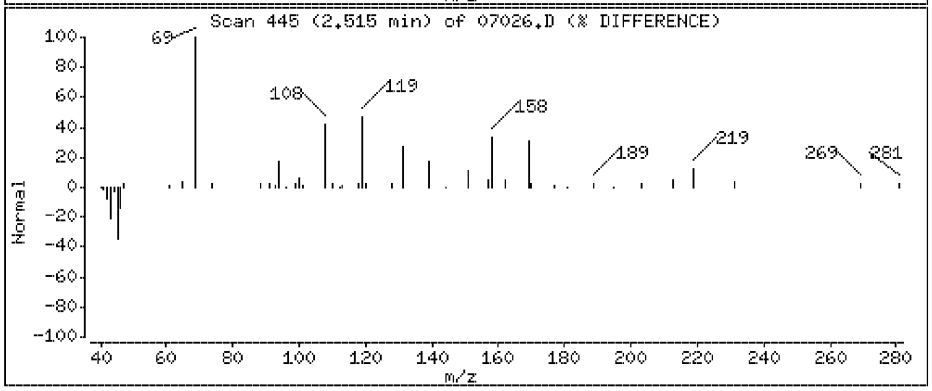
Concentration: 3.65 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

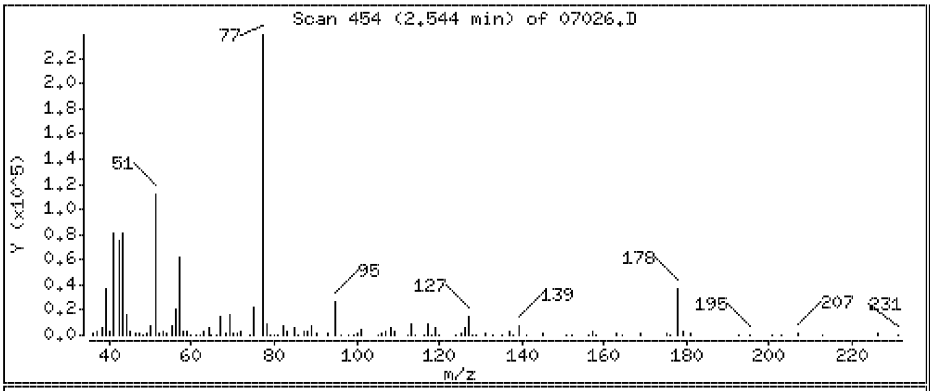
Operator: DR1

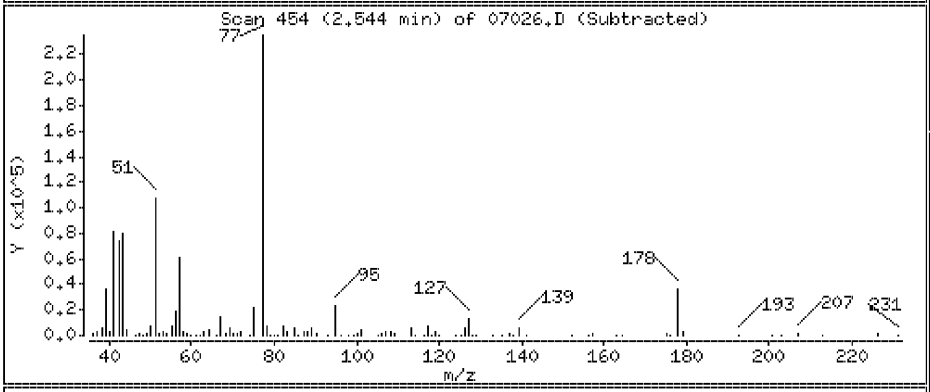
Column phase: J&W DB-5

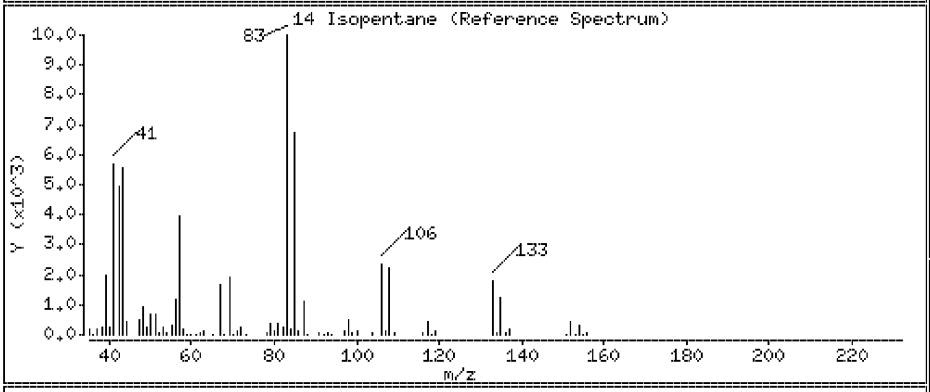
Column diameter: 0.32

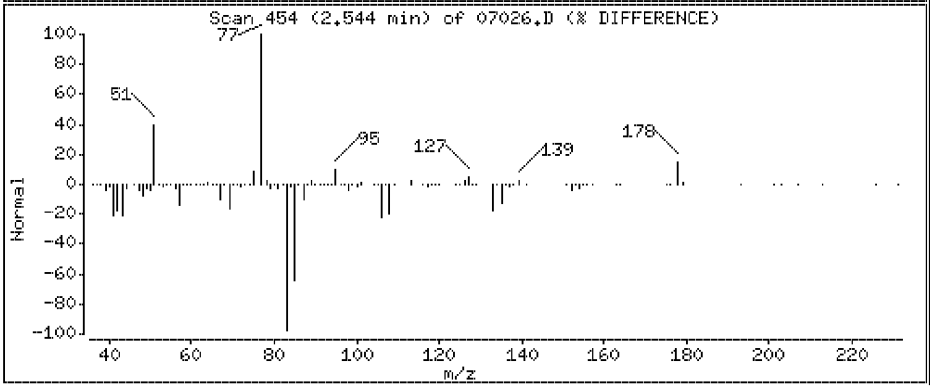
14 Isopentane

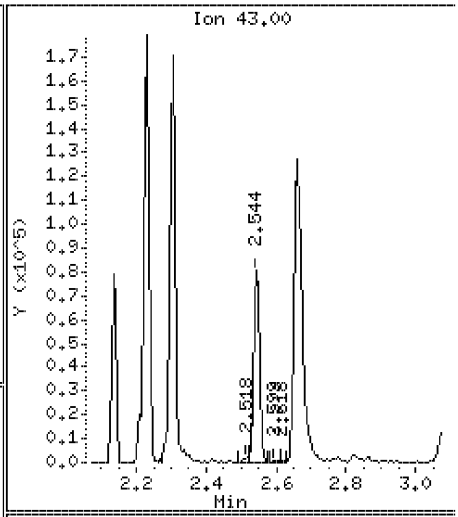
Concentration: 4.55 ppbv

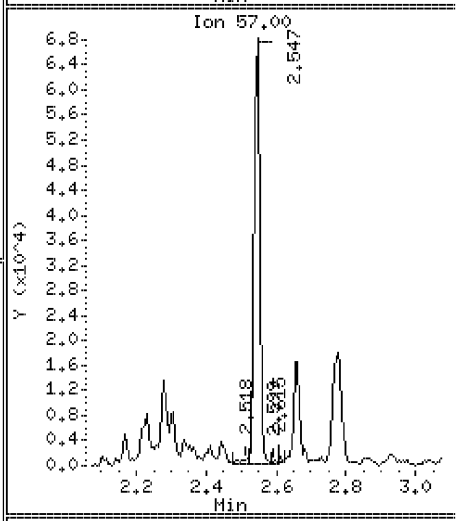


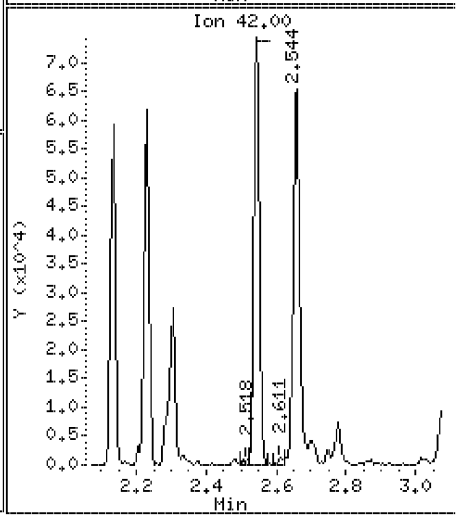












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

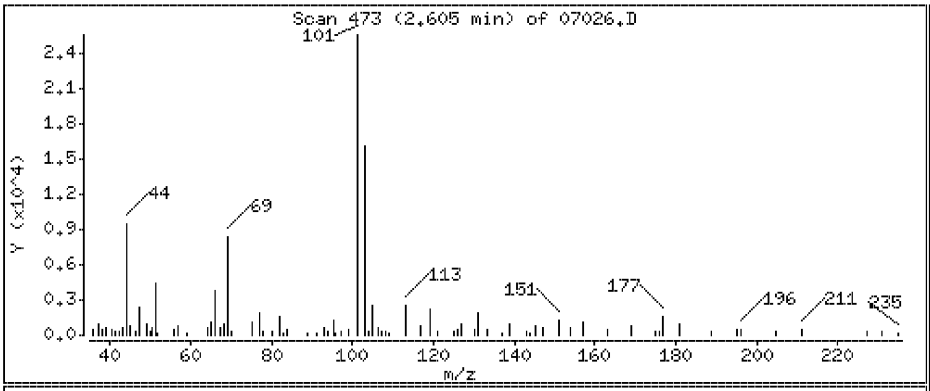
Operator: DR1

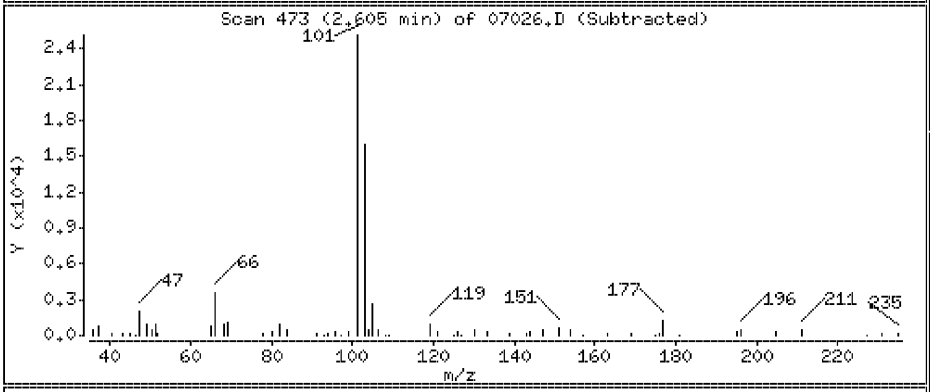
Column phase: J&W DB-5

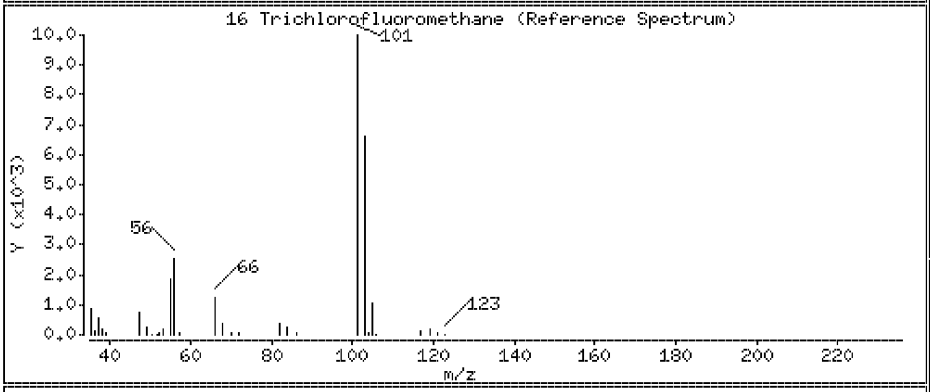
Column diameter: 0.32

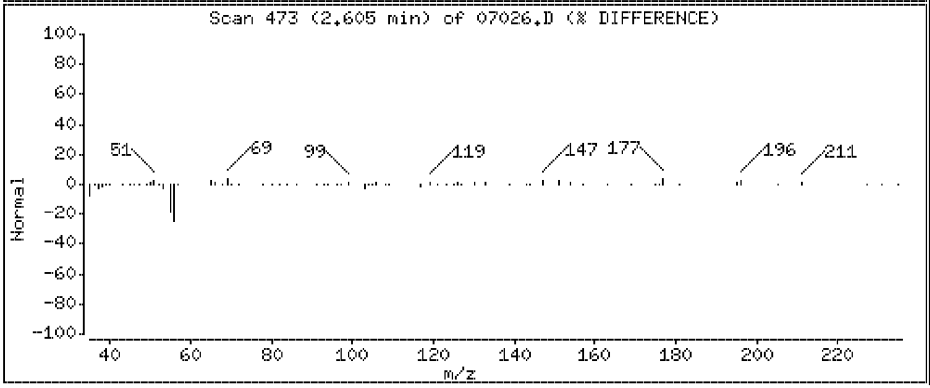
16 Trichlorofluoromethane

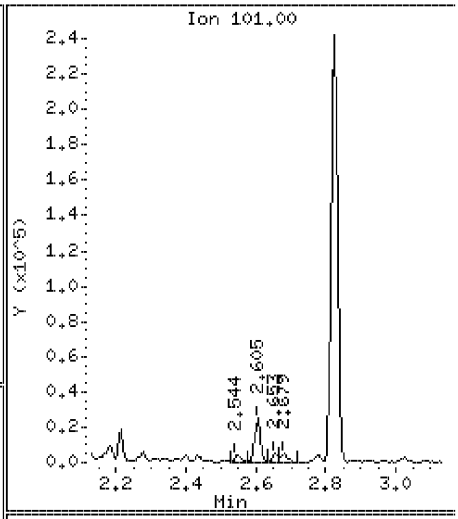
Concentration: 0.591 ppbv

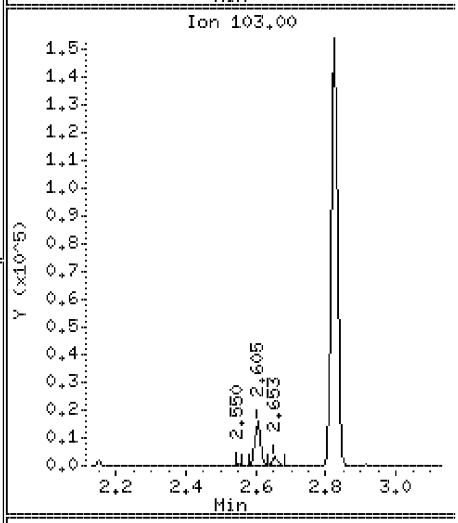


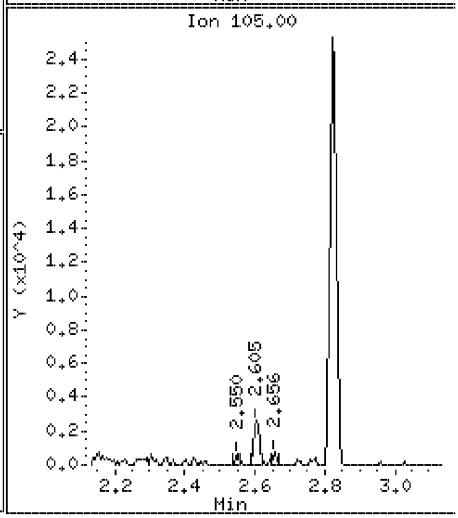












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

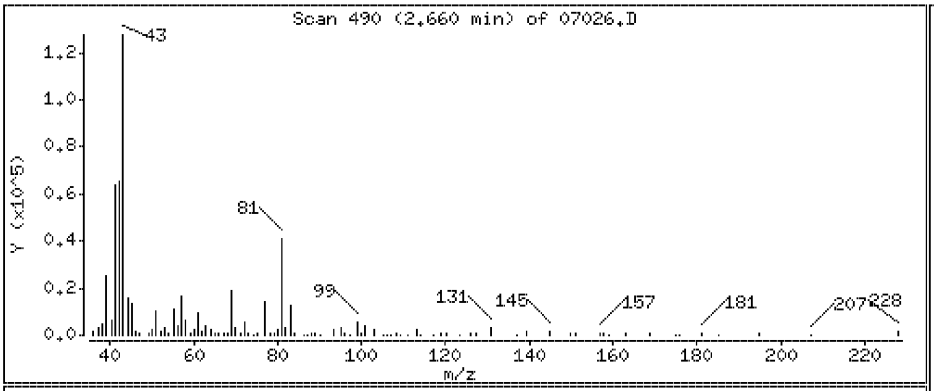
Operator: DR1

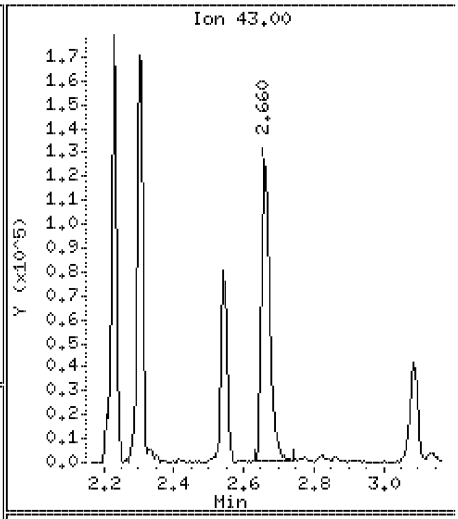
Column phase: J&W DB-5

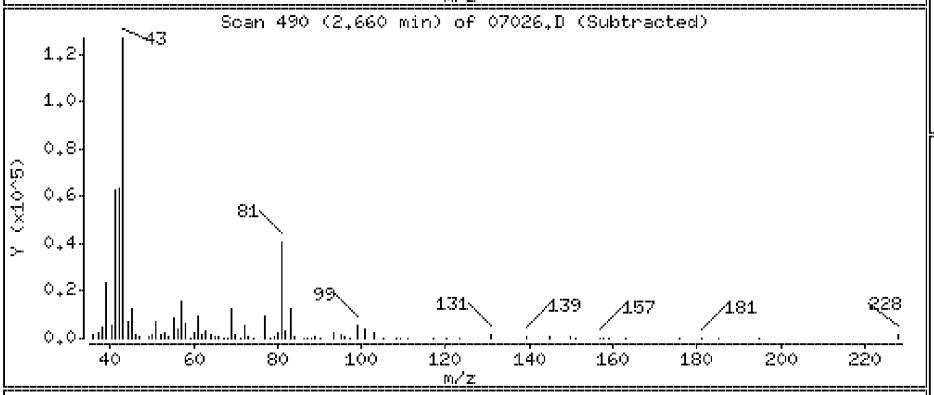
Column diameter: 0.32

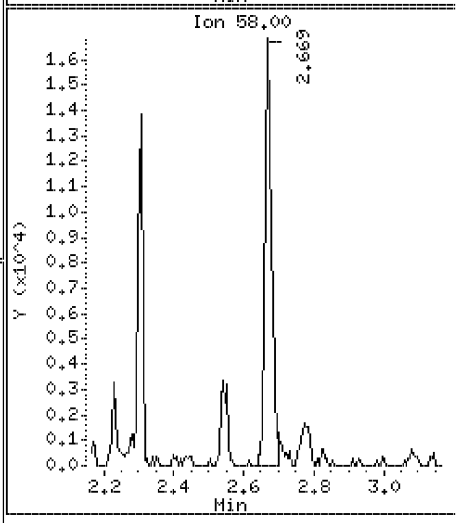
18 Acetone

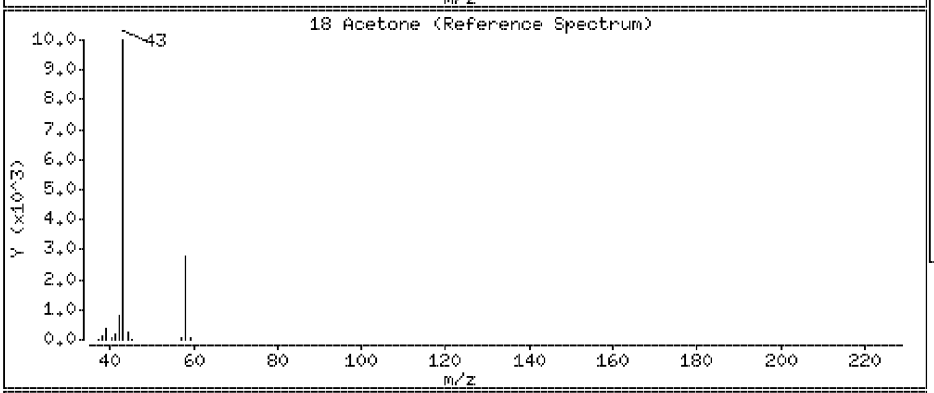
Concentration: 6.78 ppbv

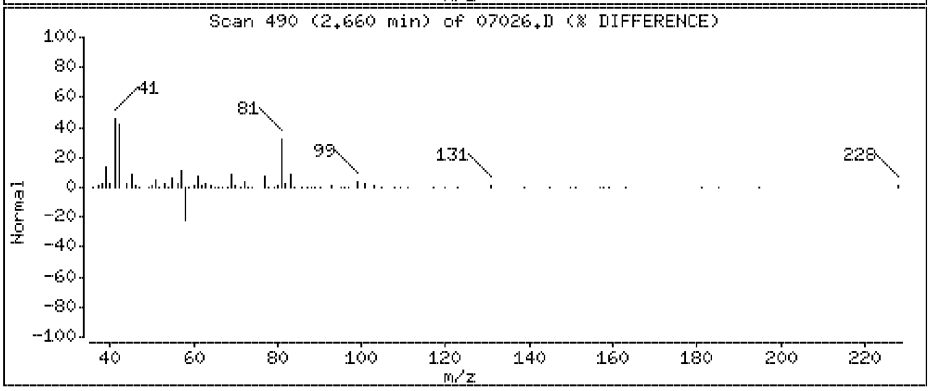












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

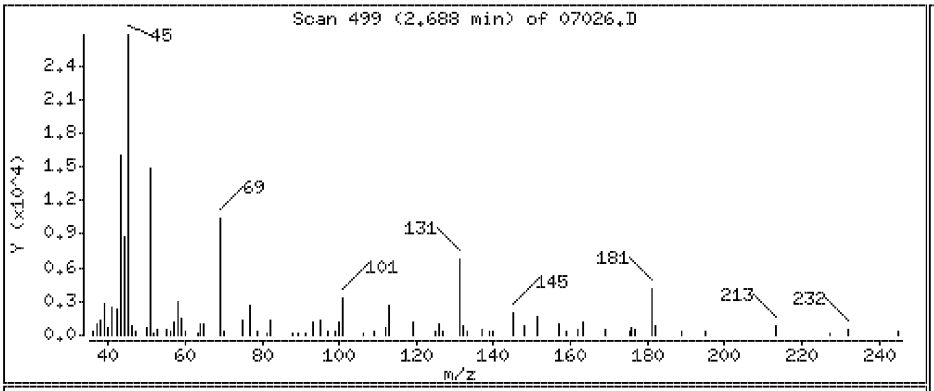
Operator: DR1

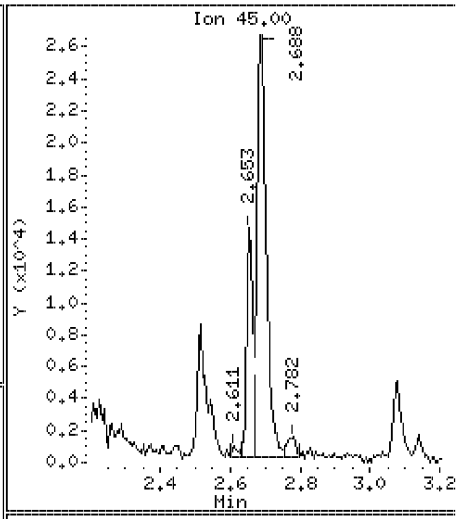
Column phase: J&W DB-5

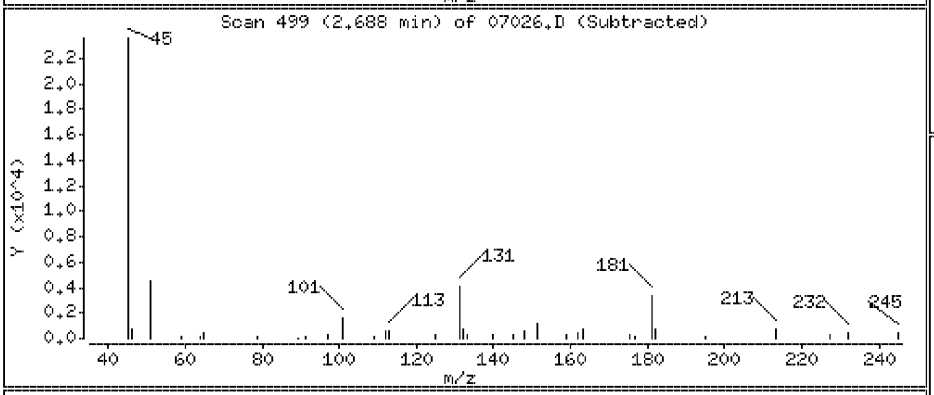
Column diameter: 0.32

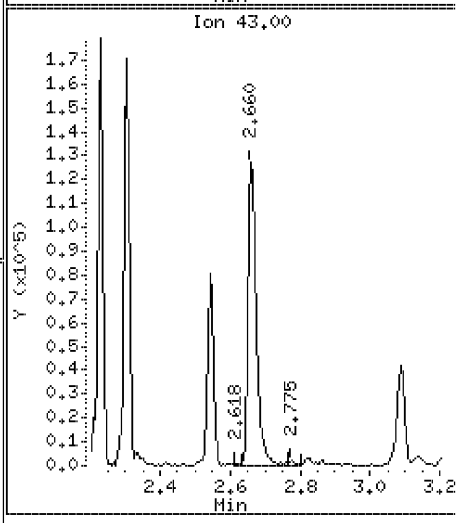
19 Isopropyl Alcohol

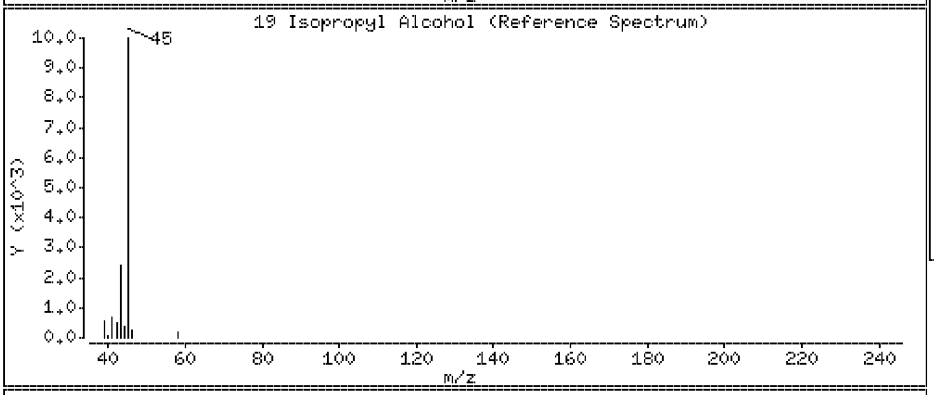
Concentration: 2.96 ppbv

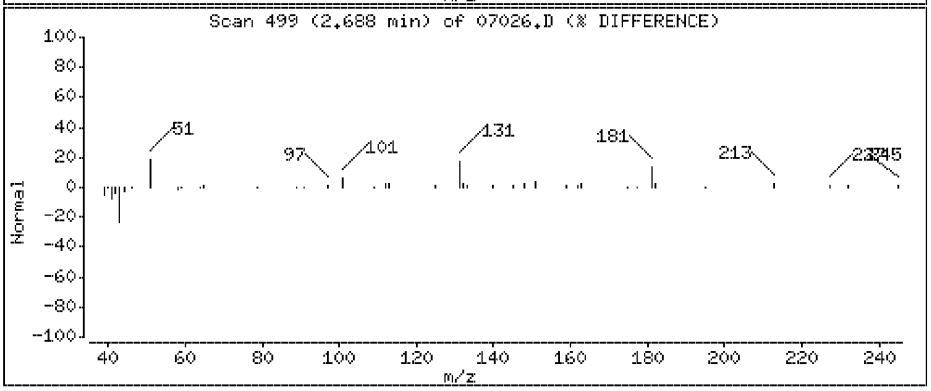












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

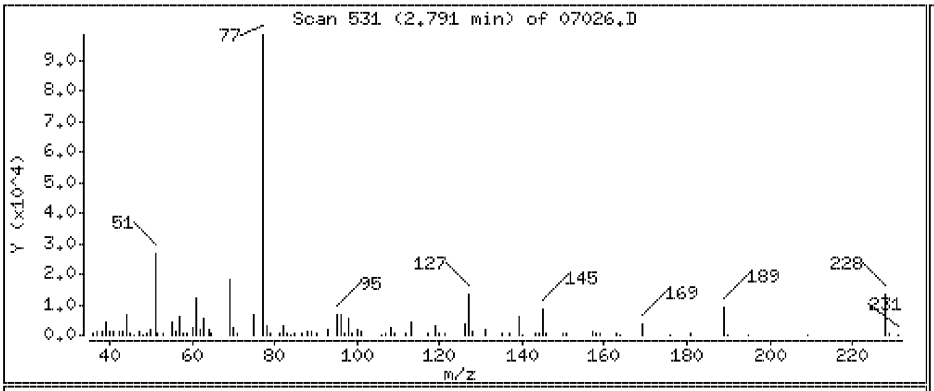
Operator: DR1

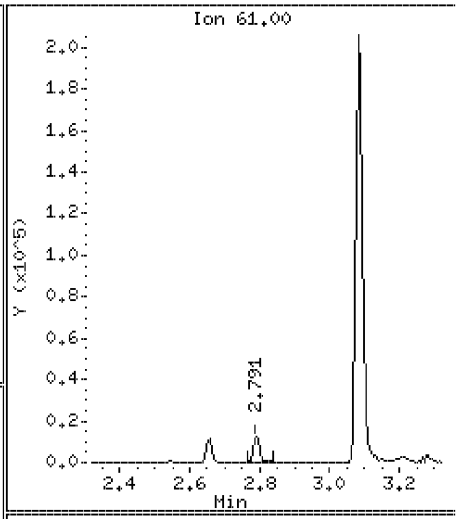
Column phase: J&W DB-5

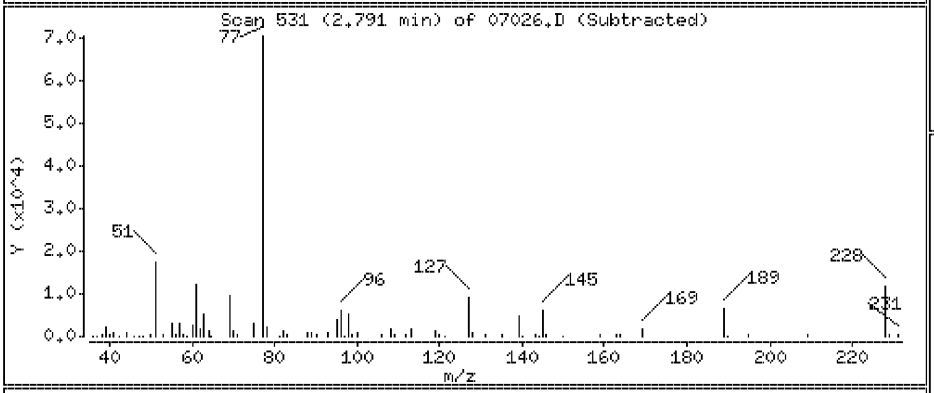
Column diameter: 0.32

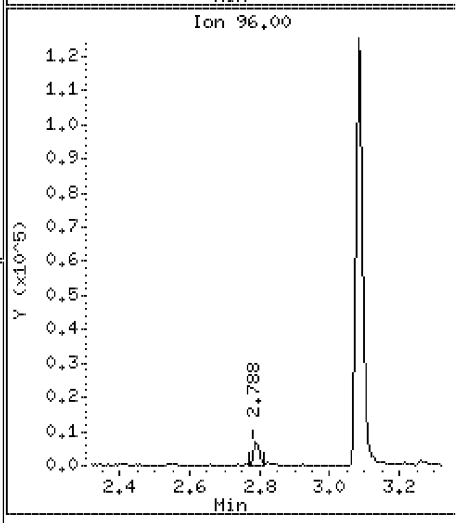
20 1,1-Dichloroethene

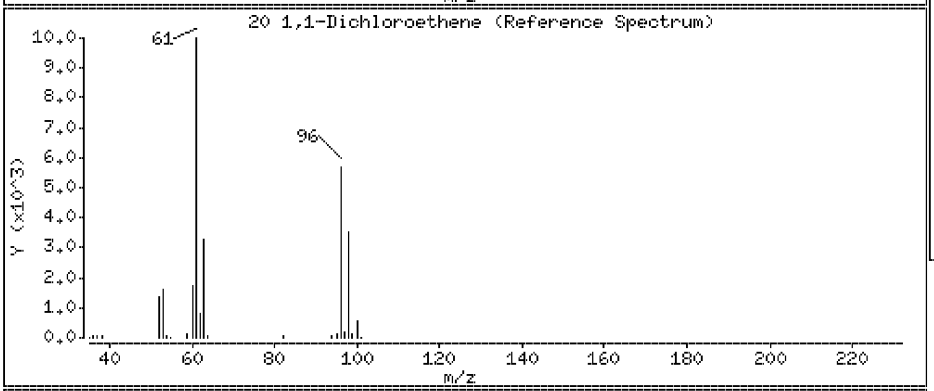
Concentration: 0.584 ppbv

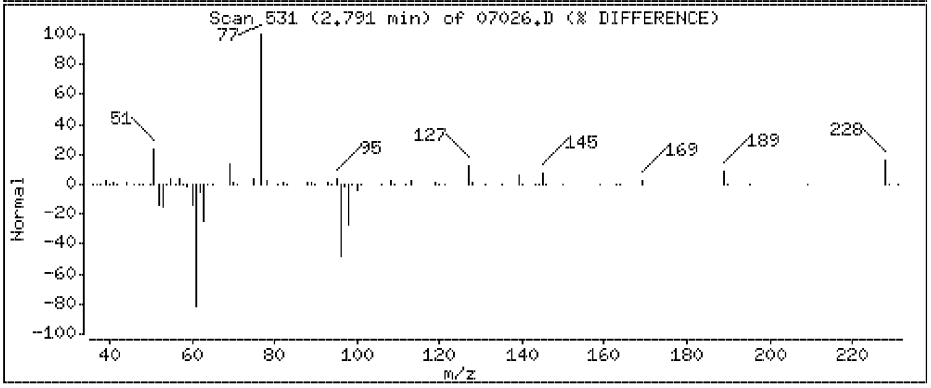












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

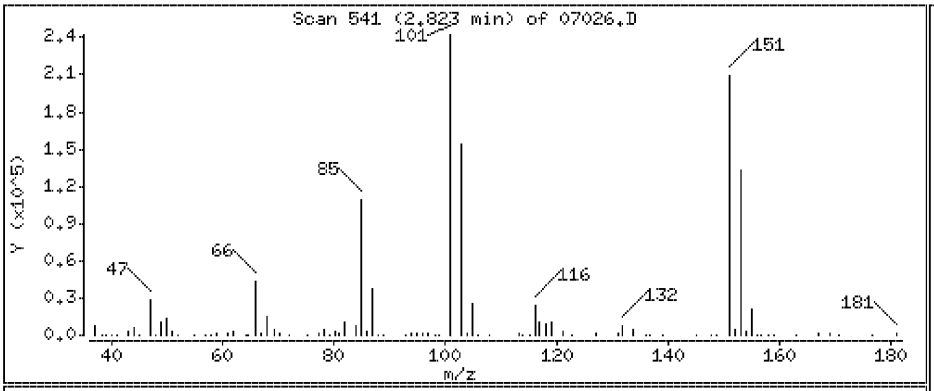
Operator: DR1

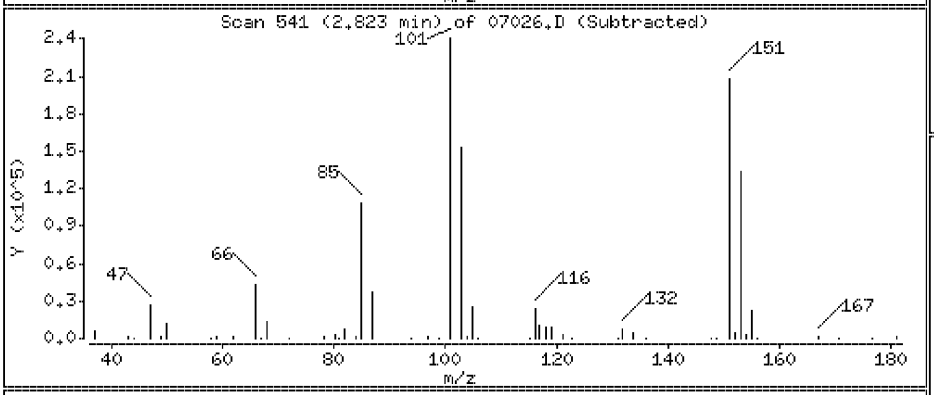
Column phase: J&W DB-5

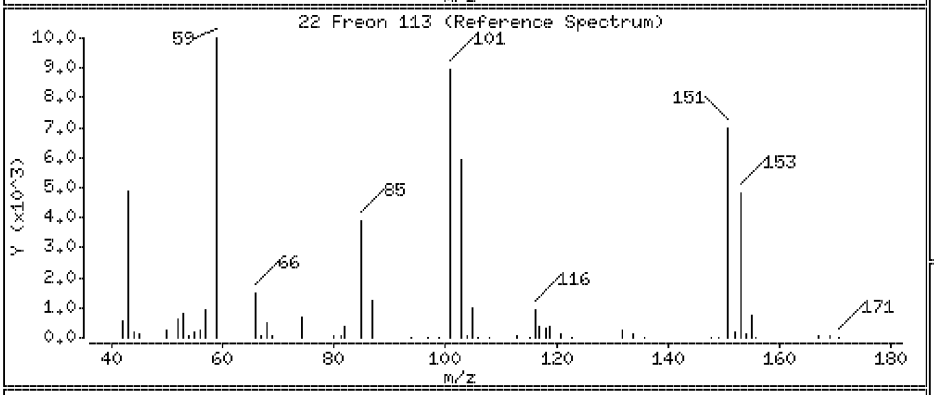
Column diameter: 0.32

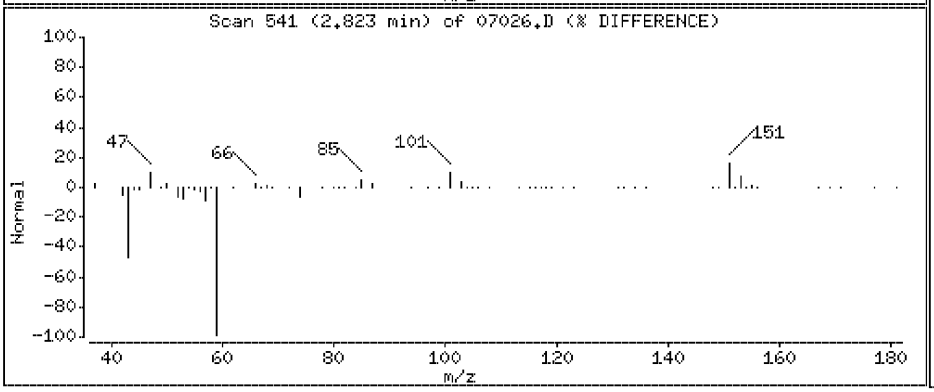
22 Freon 113

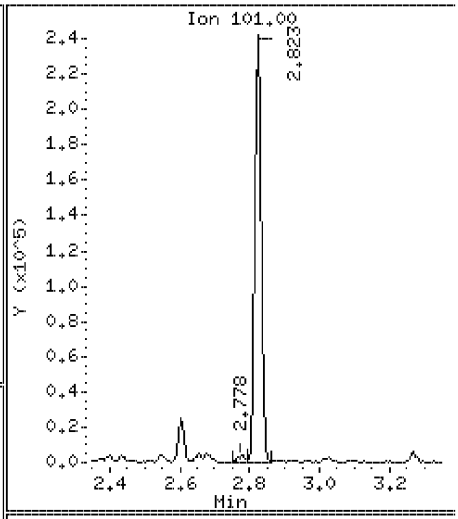
Concentration: 8.05 ppbv

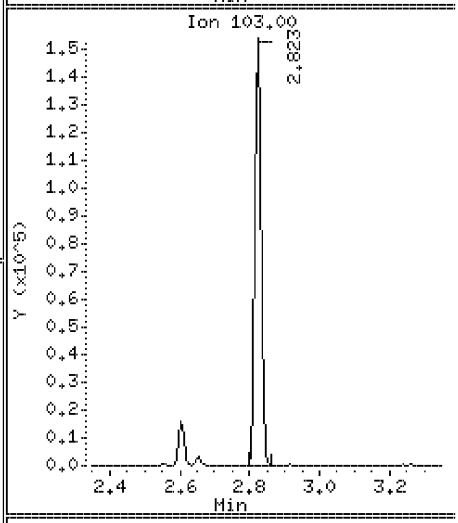


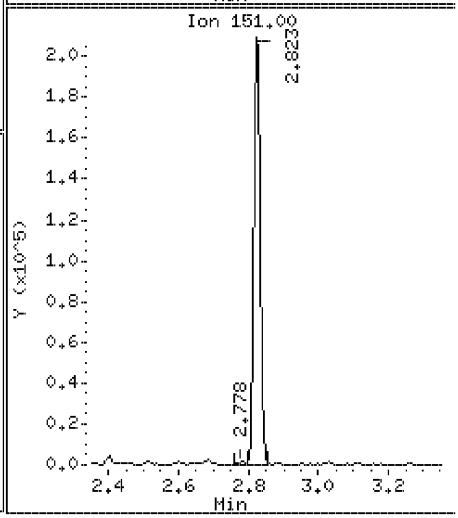












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

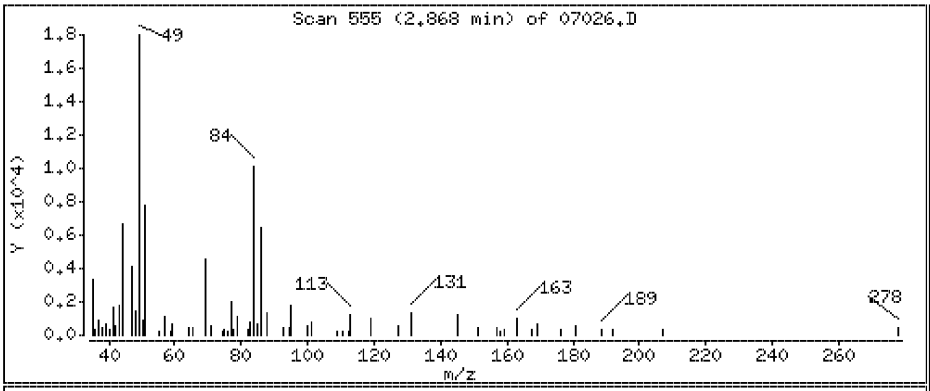
Operator: DR1

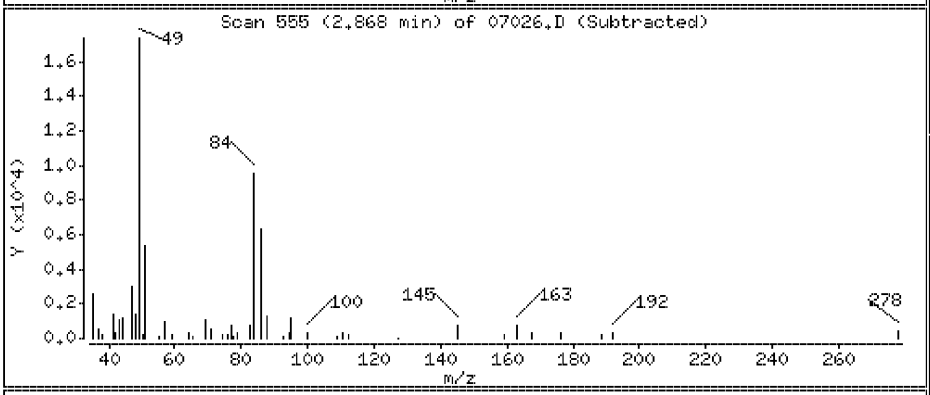
Column phase: J&W DB-5

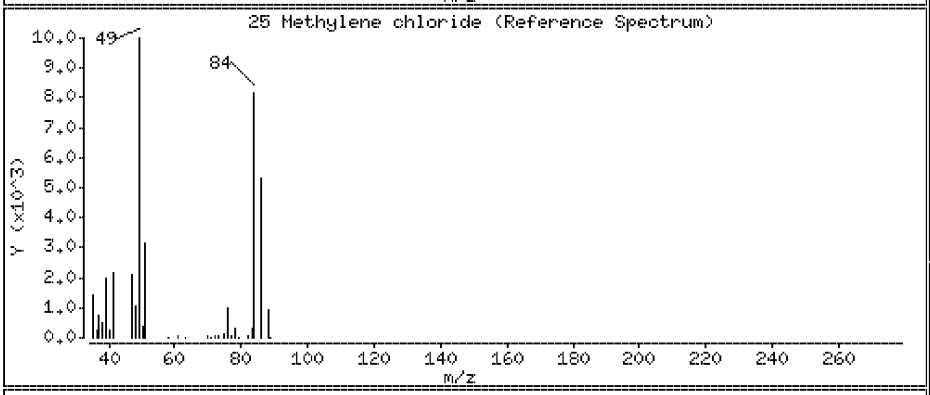
Column diameter: 0.32

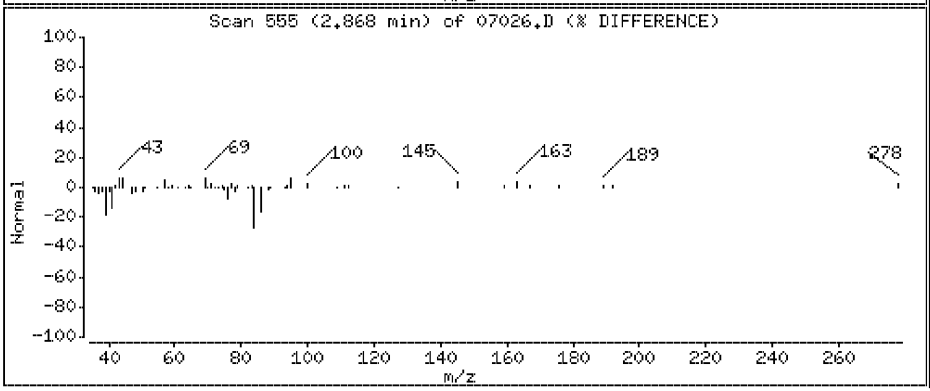
25 Methylene chloride

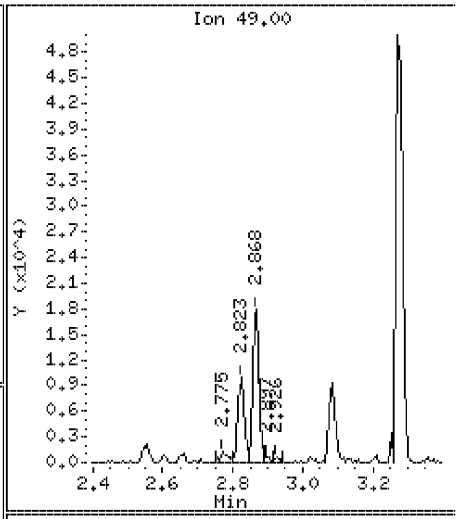
Concentration: 0.427 ppbv

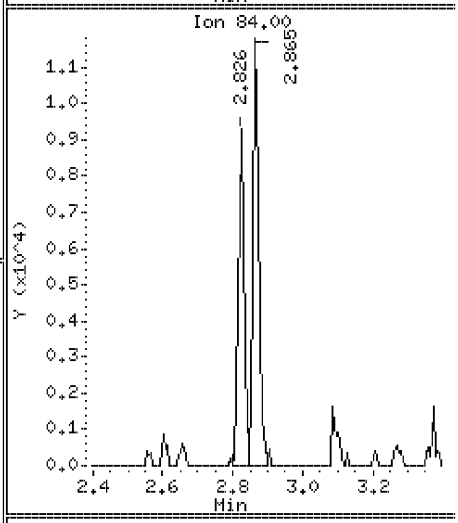


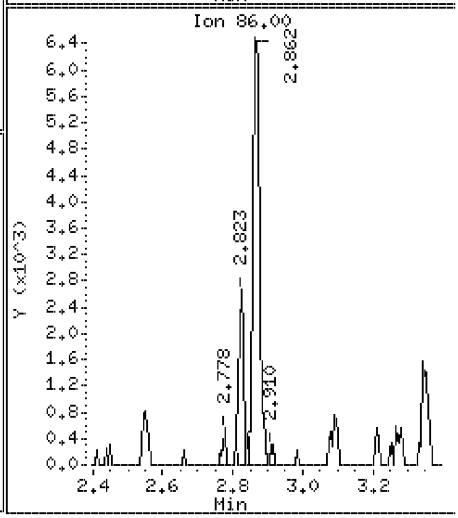












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

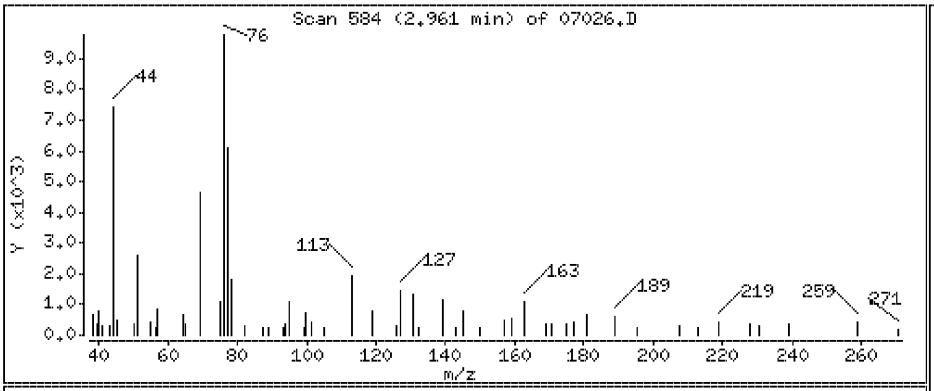
Operator: DR1

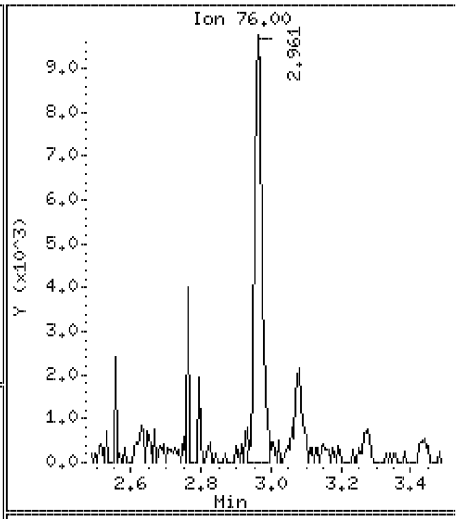
Column phase: J&W DB-5

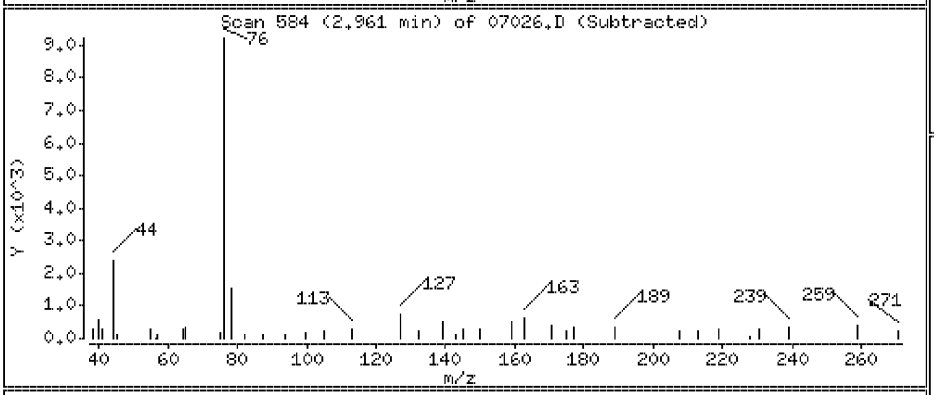
Column diameter: 0.32

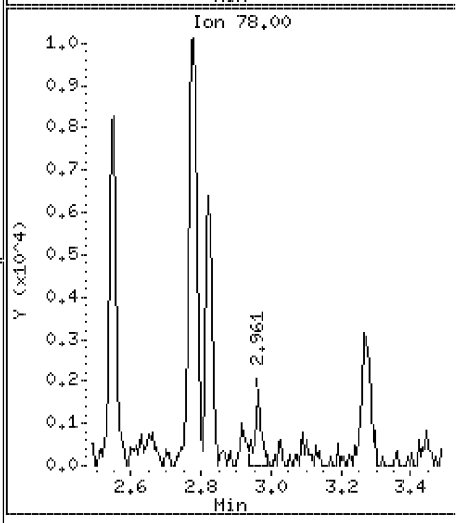
27 Carbon Disulfide

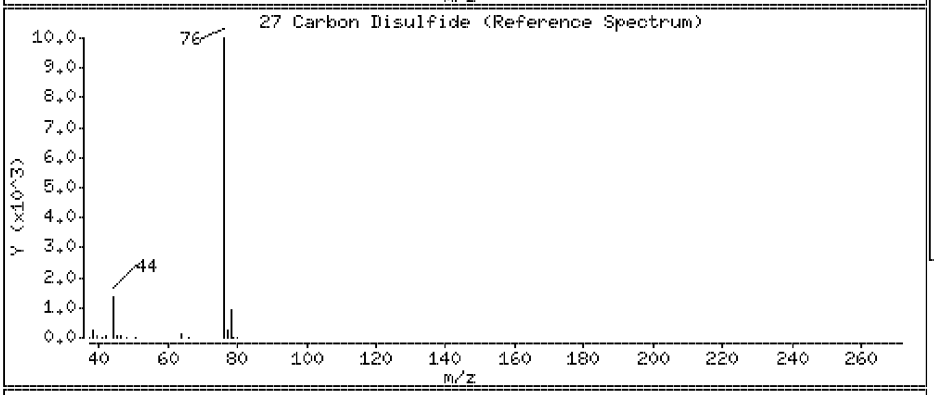
Concentration: 0.355 ppbv

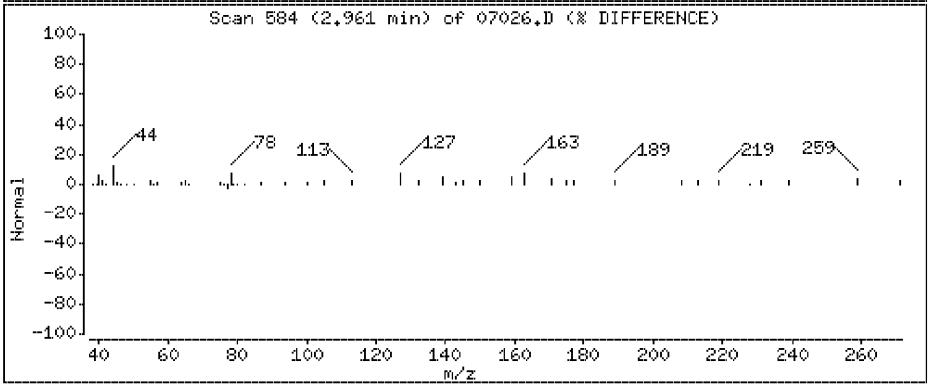












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

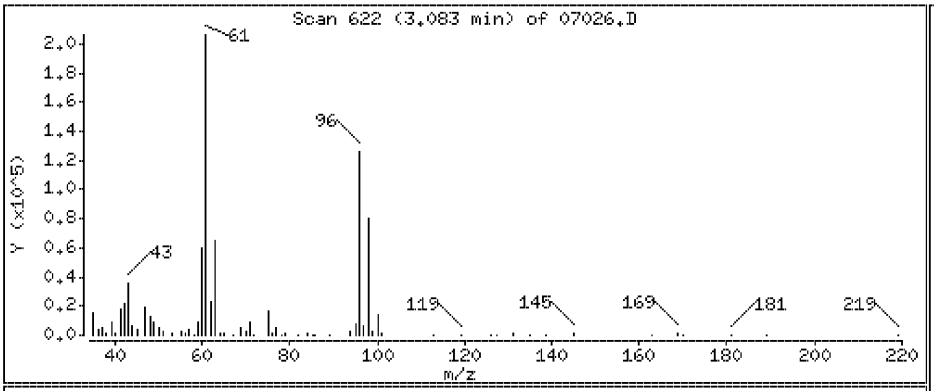
Operator: DR1

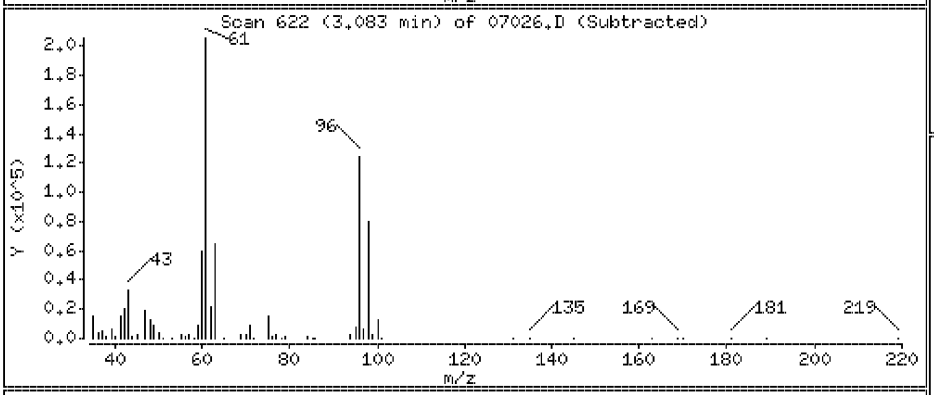
Column phase: J&W DB-5

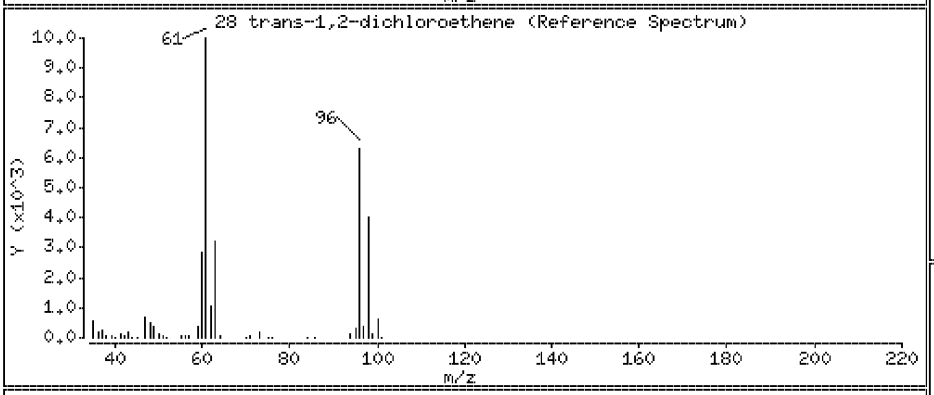
Column diameter: 0.32

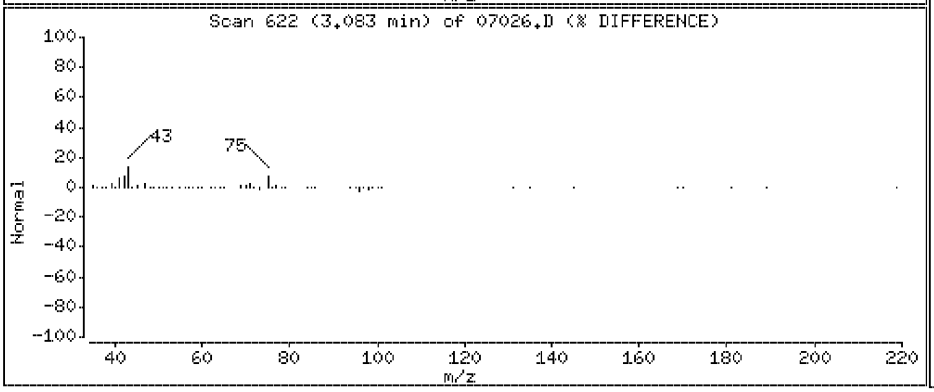
28 trans-1,2-dichloroethene

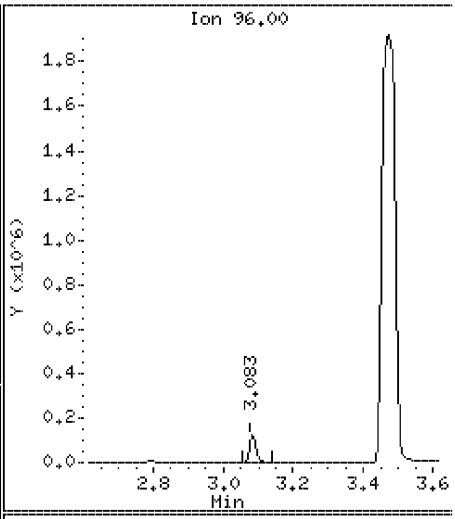
Concentration: 12.0 ppbv

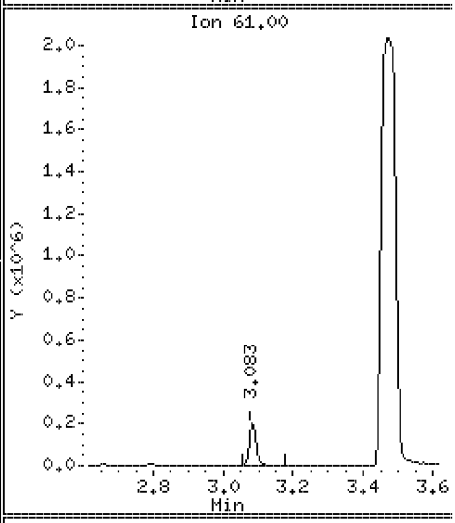


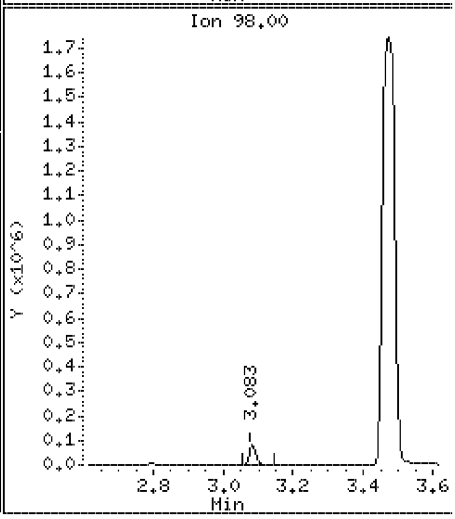












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

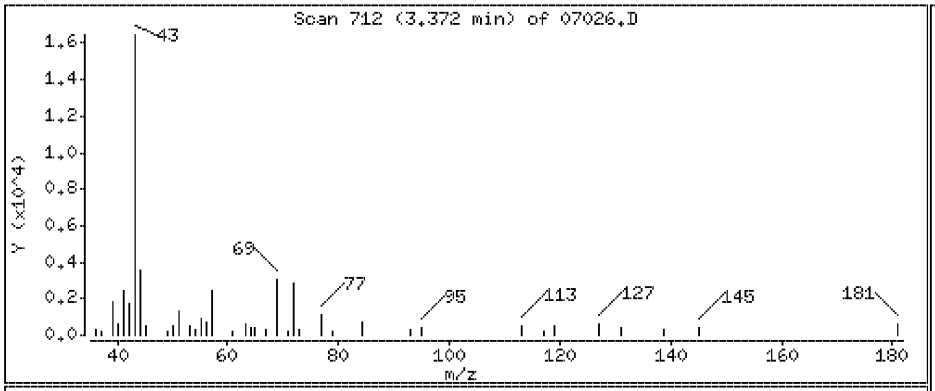
Operator: DR1

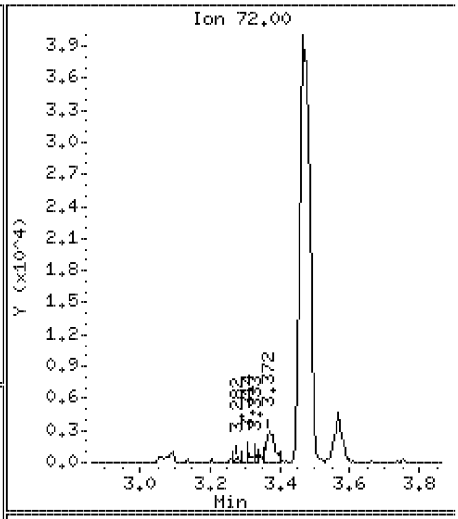
Column phase: J&W DB-5

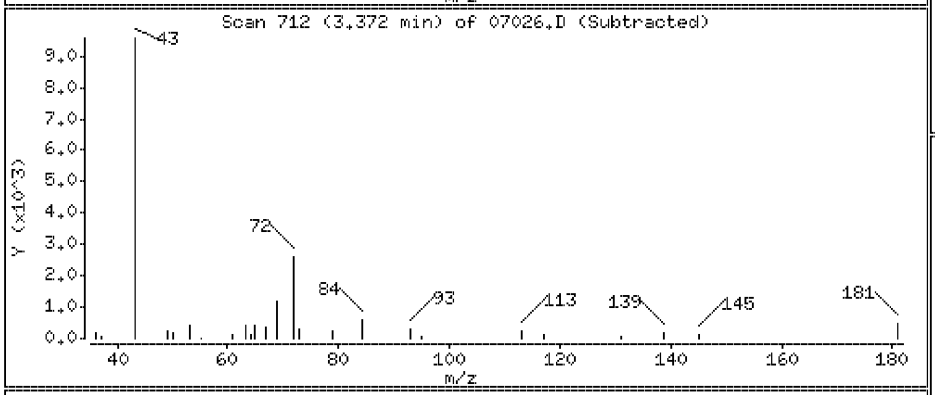
Column diameter: 0.32

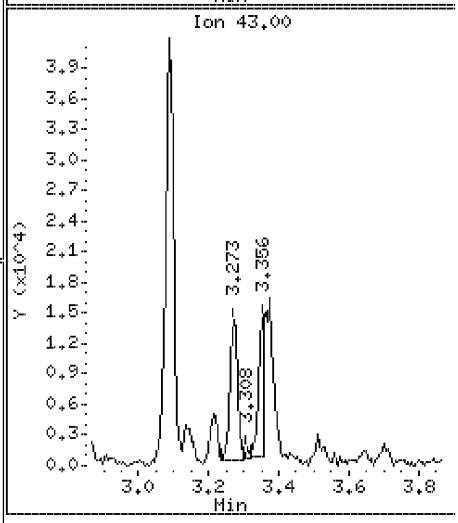
33 Methyl Ethyl Ketone

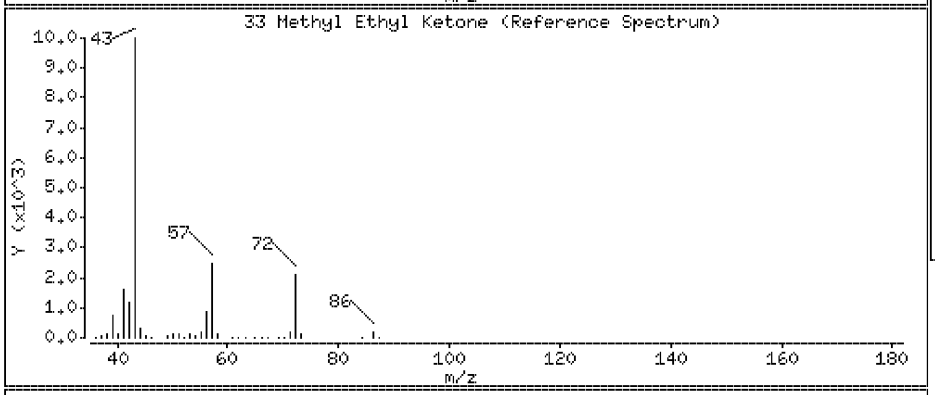
Concentration: 0.703 ppbv

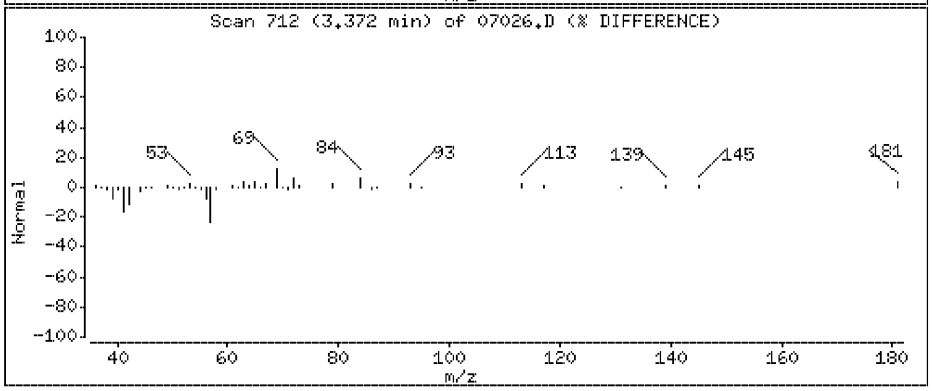












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

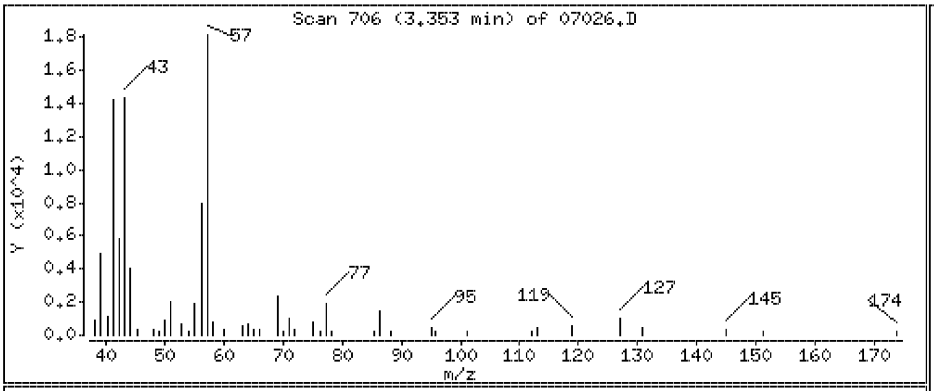
Operator: DR1

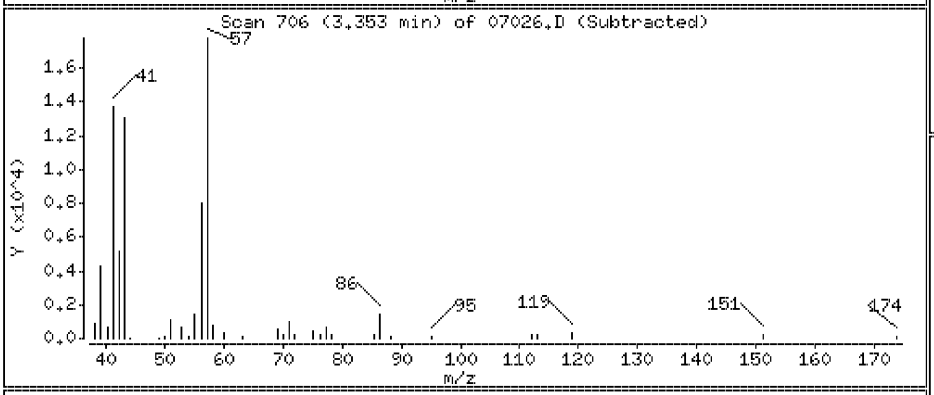
Column phase: J&W DB-5

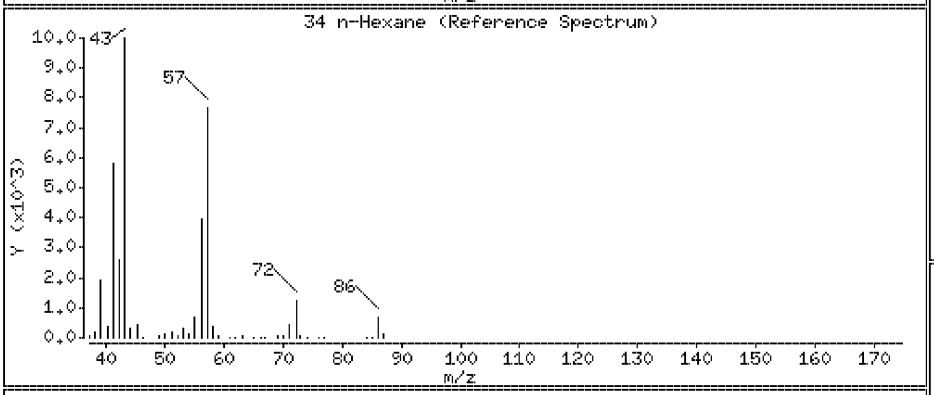
Column diameter: 0.32

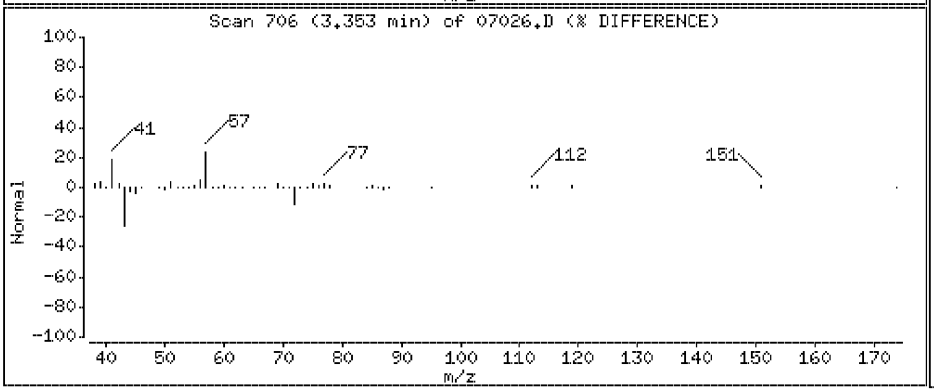
34 n-Hexane

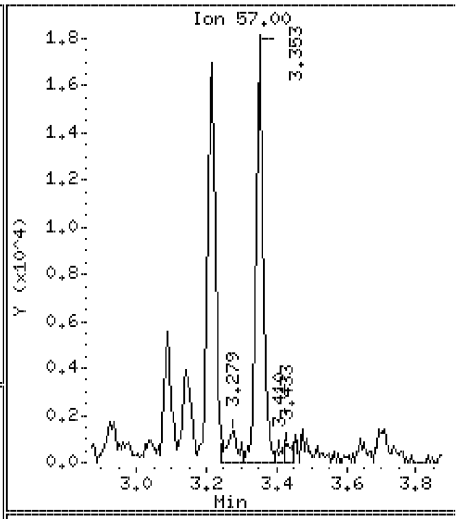
Concentration: 1.04 ppbv

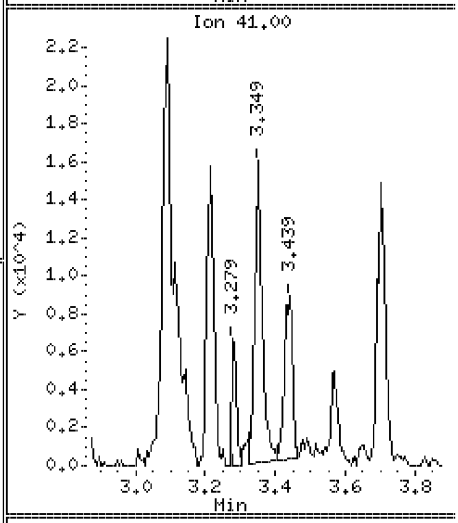


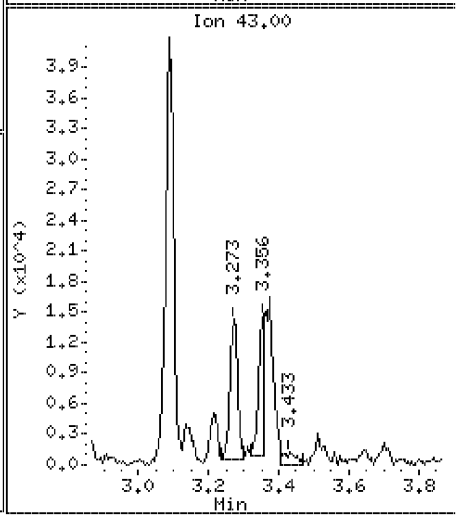












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

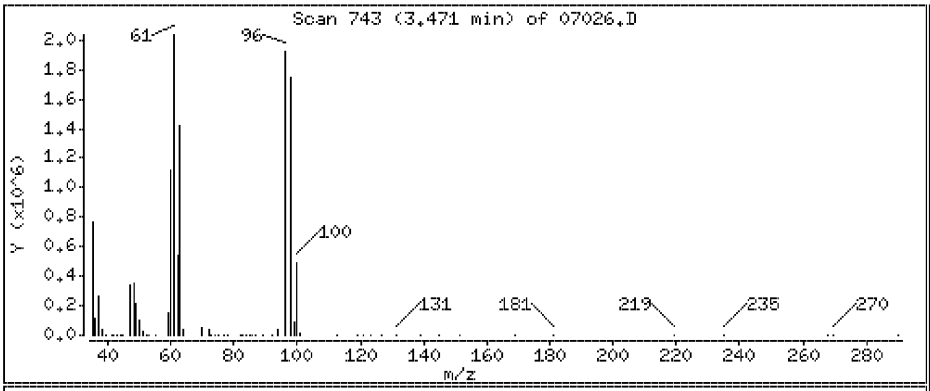
Operator: DR1

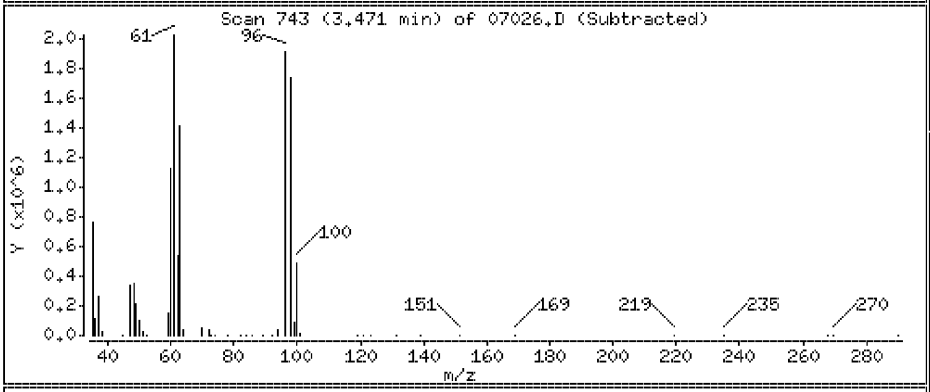
Column phase: J&W DB-5

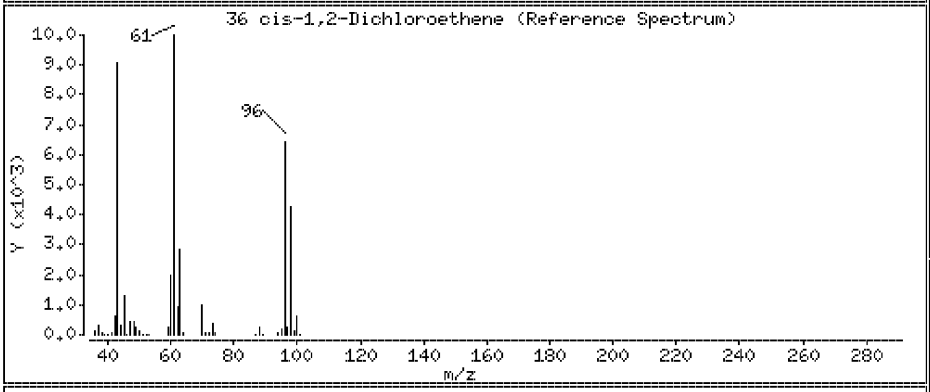
Column diameter: 0.32

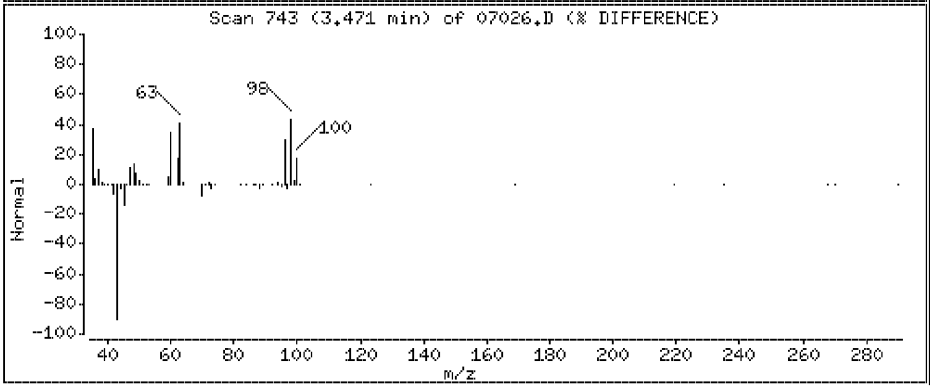
36 cis-1,2-Dichloroethene

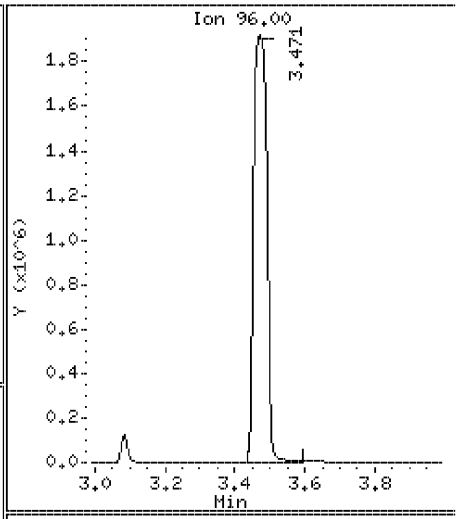
Concentration: 328 ppbv

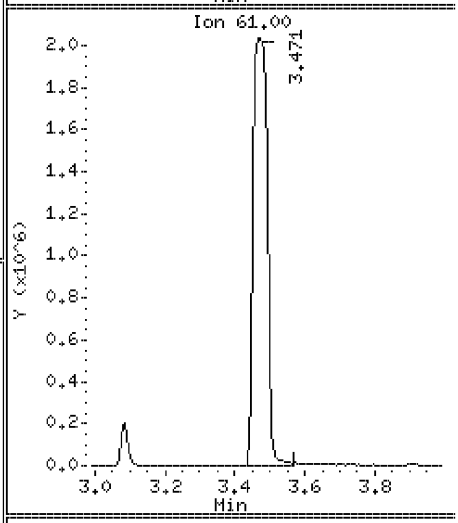


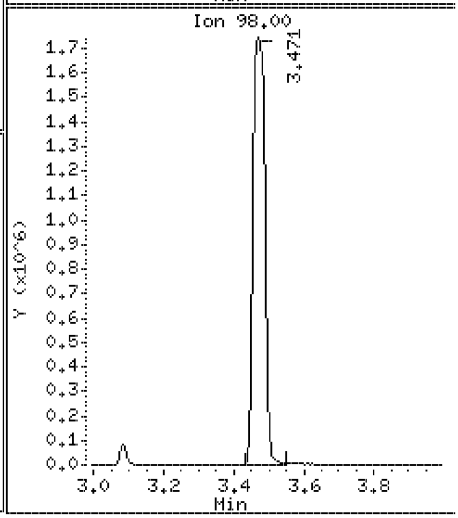












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

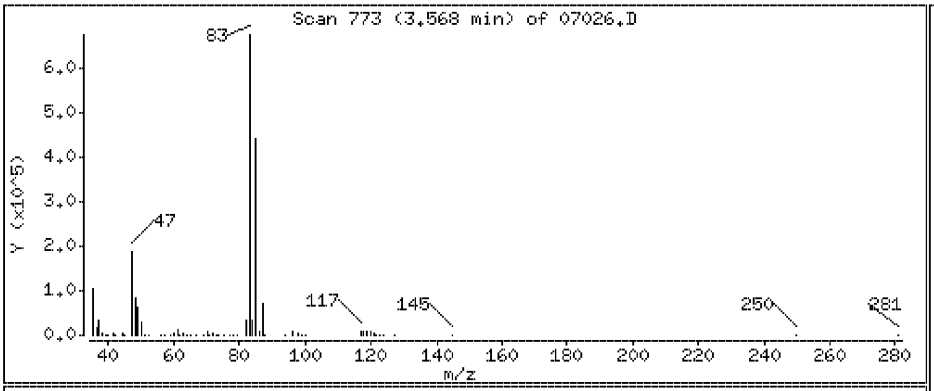
Operator: DR1

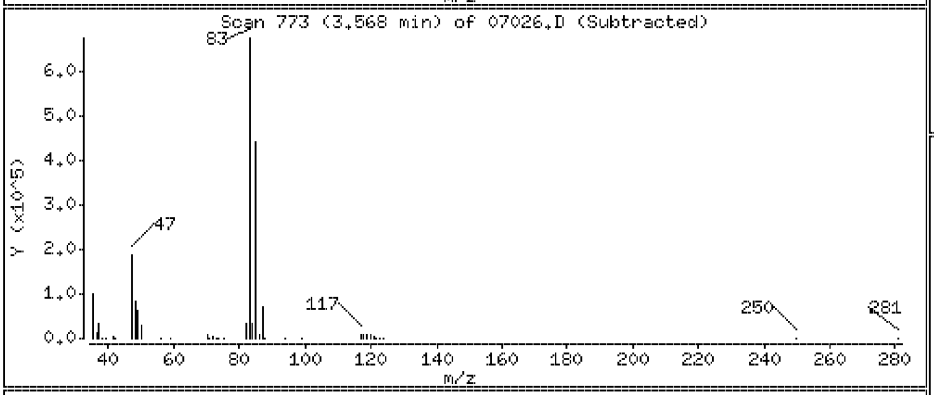
Column phase: J&W DB-5

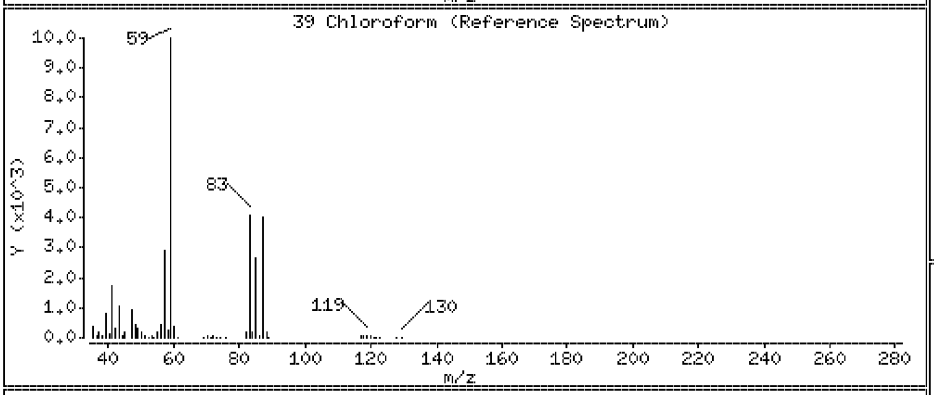
Column diameter: 0.32

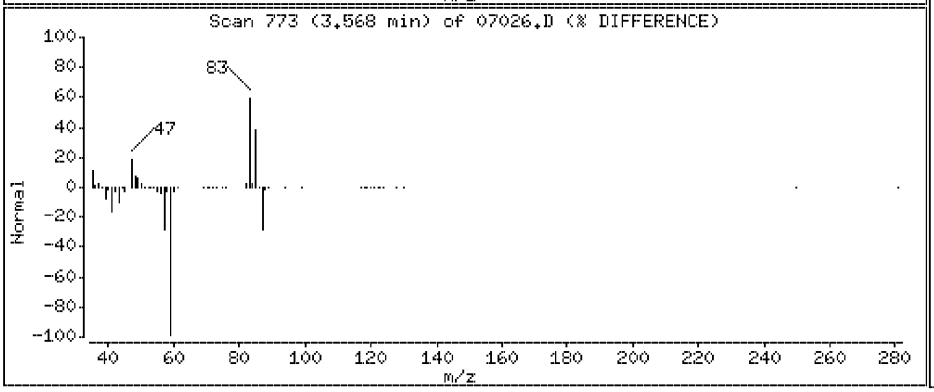
39 Chloroform

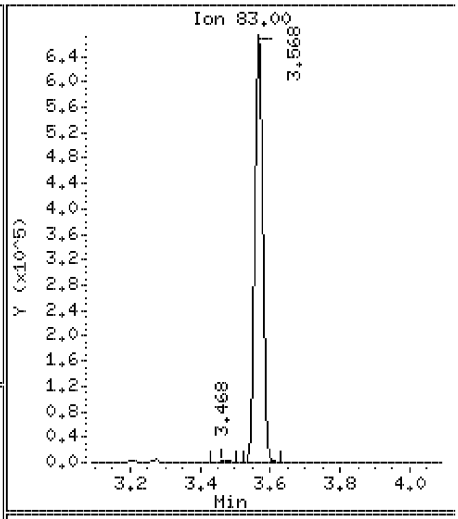
Concentration: 27.4 ppbv

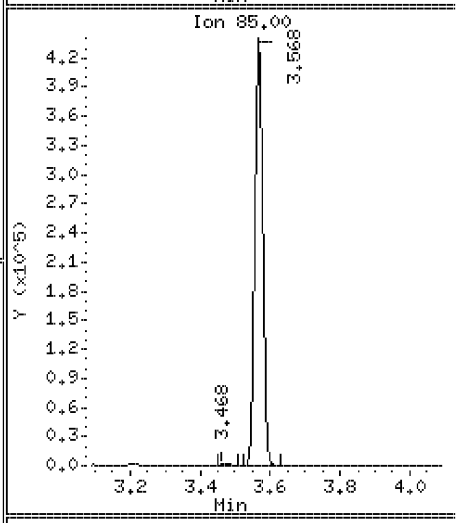


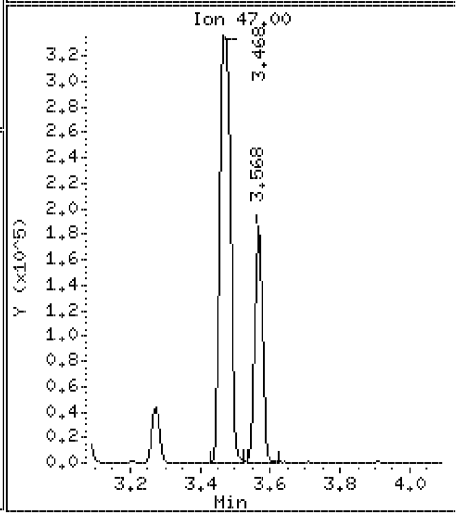












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

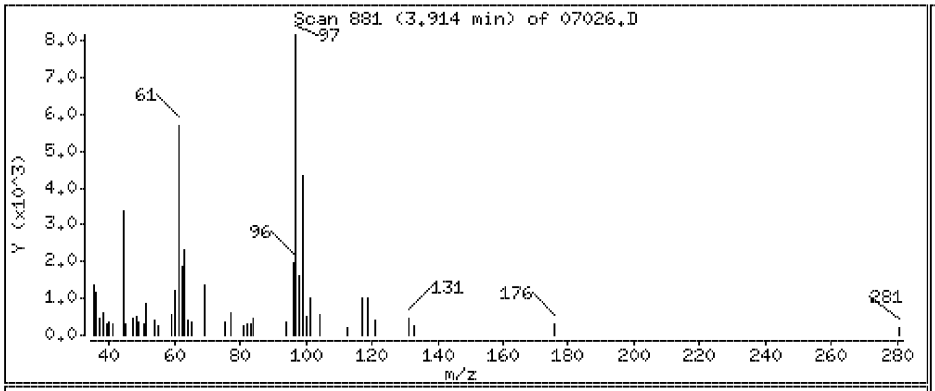
Operator: DR1

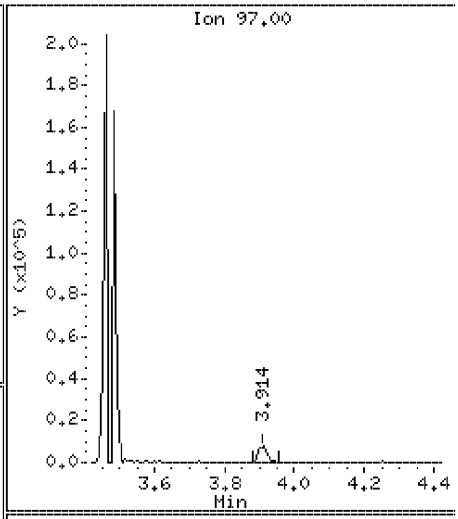
Column phase: J&W DB-5

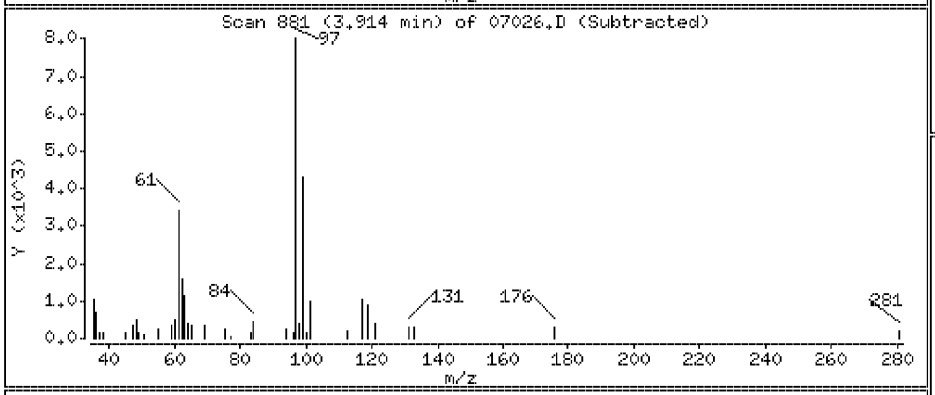
Column diameter: 0.32

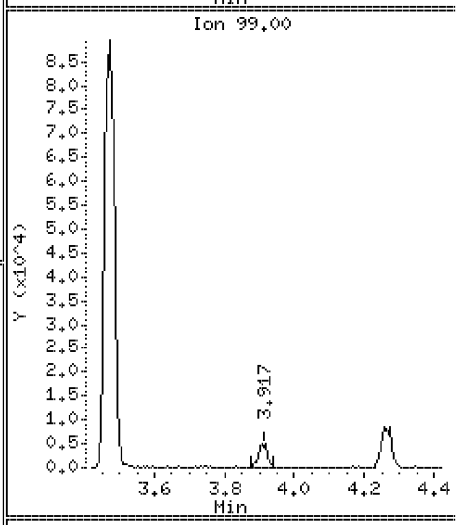
41 1,1,1-Trichloroethane

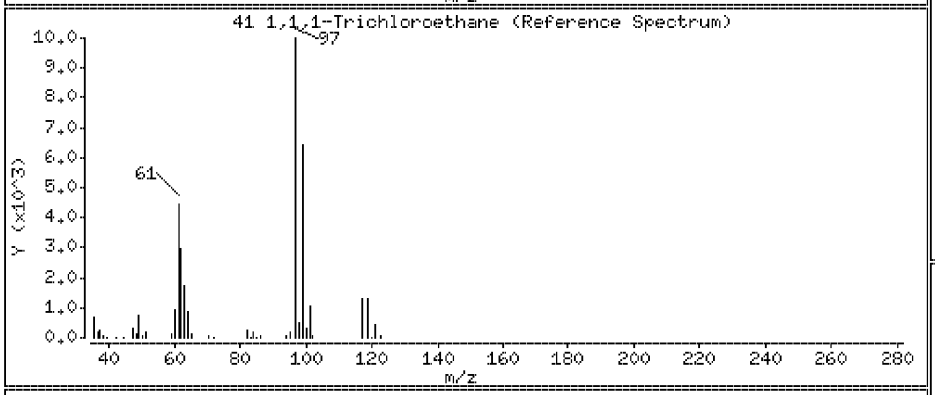
Concentration: 0.356 ppbv

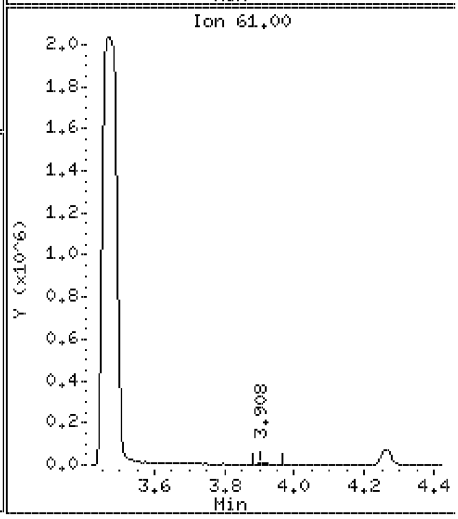


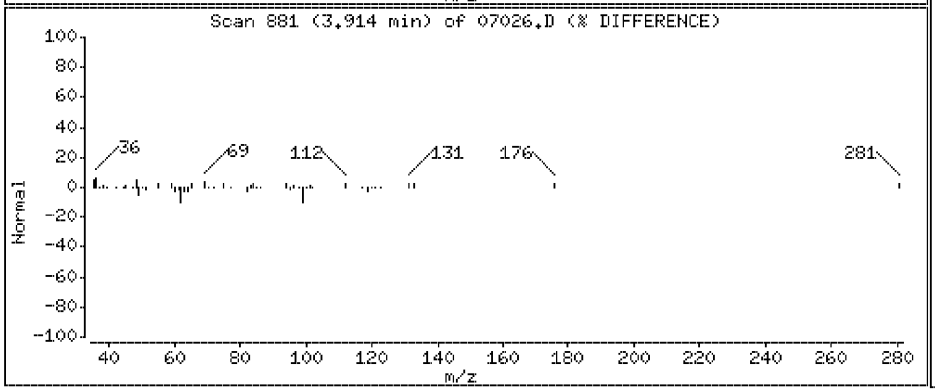












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

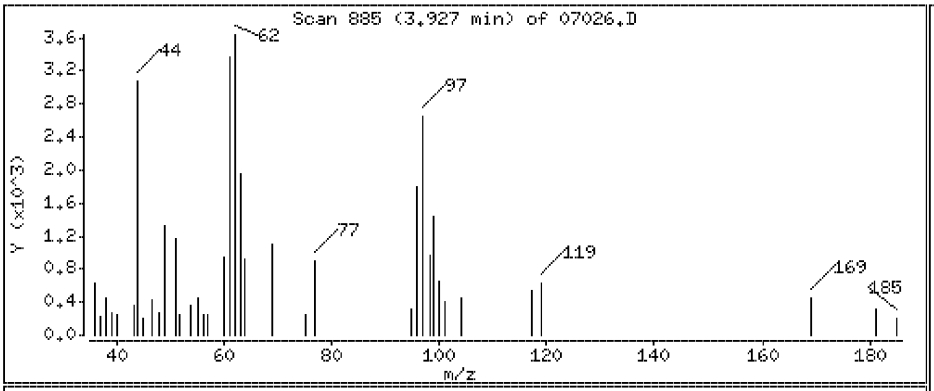
Operator: DR1

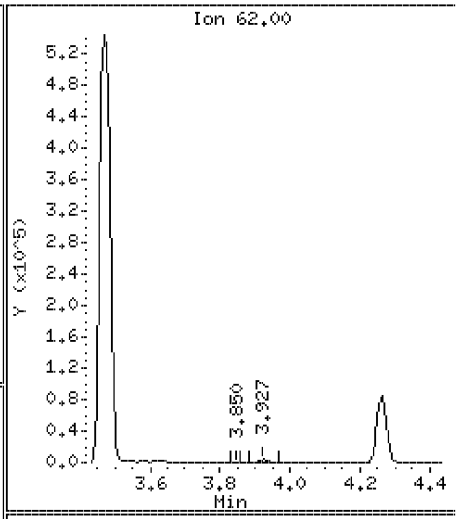
Column phase: J&W DB-5

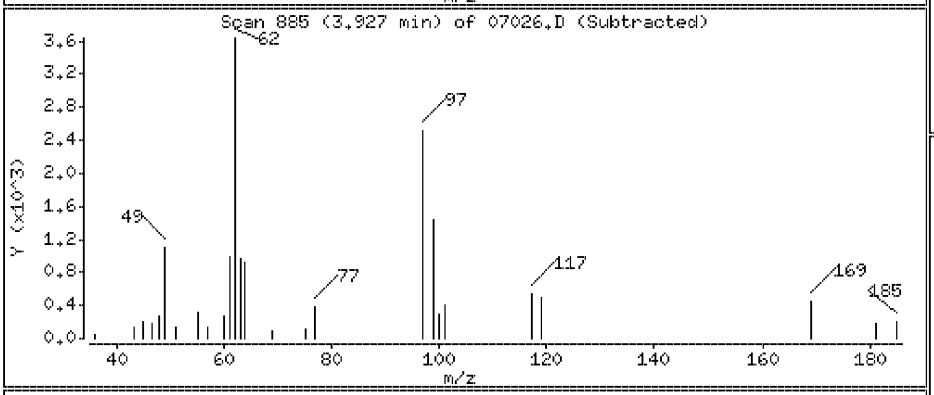
Column diameter: 0.32

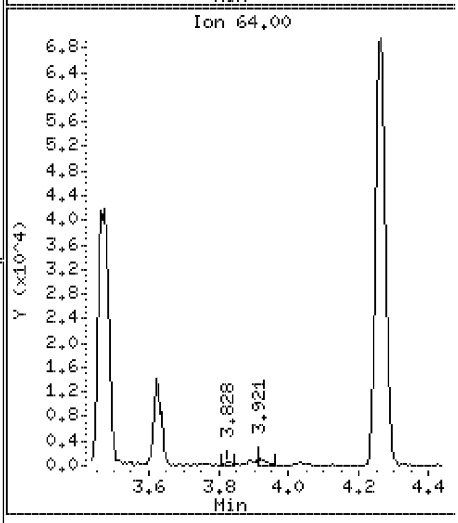
42 1,2-Dichloroethane

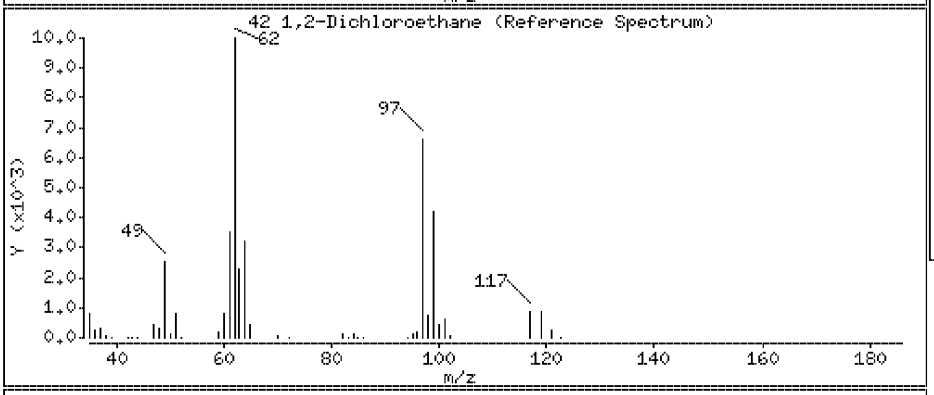
Concentration: 0.249 ppbv

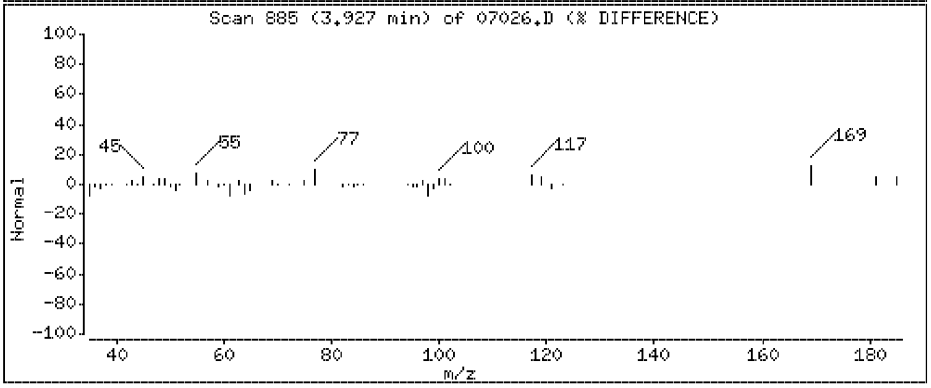












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

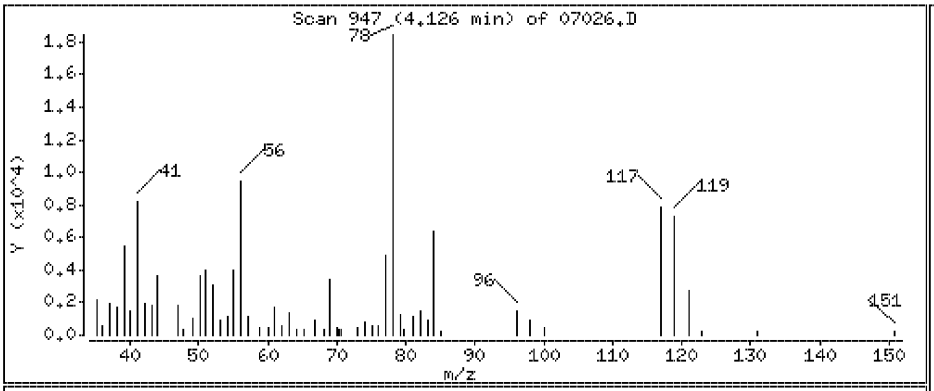
Operator: DR1

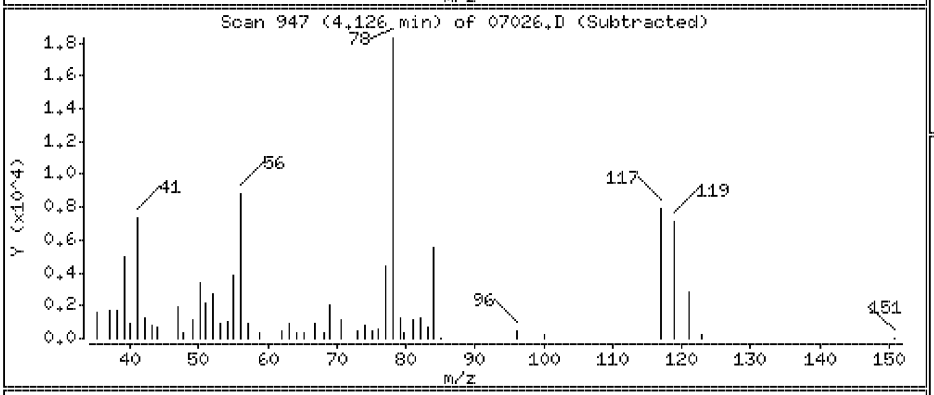
Column phase: J&W DB-5

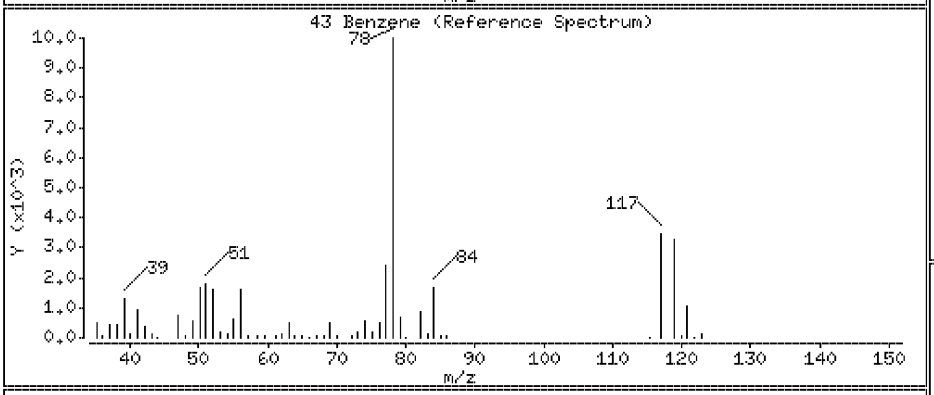
Column diameter: 0.32

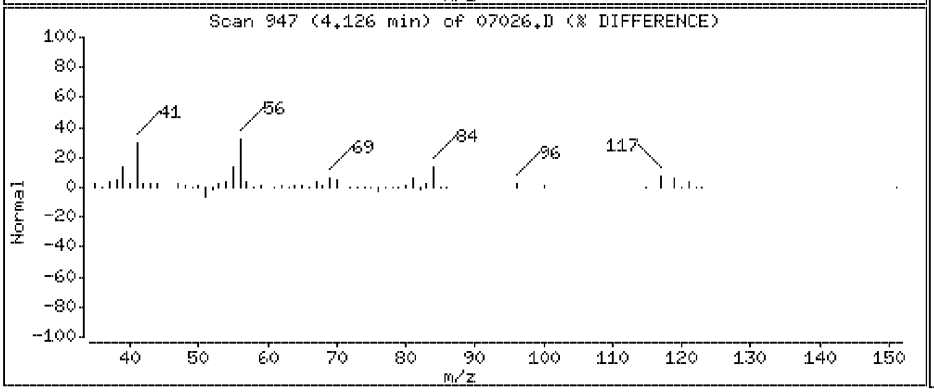
43 Benzene

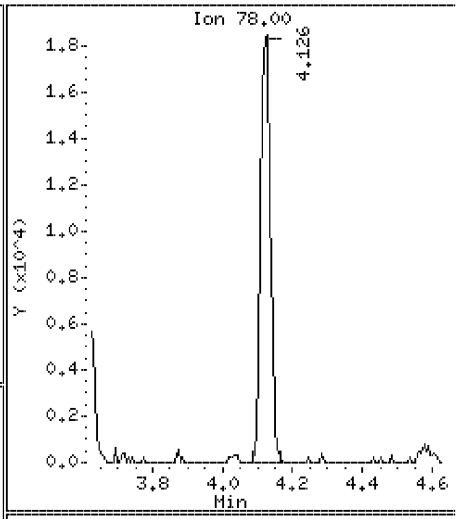
Concentration: 0.776 ppbv

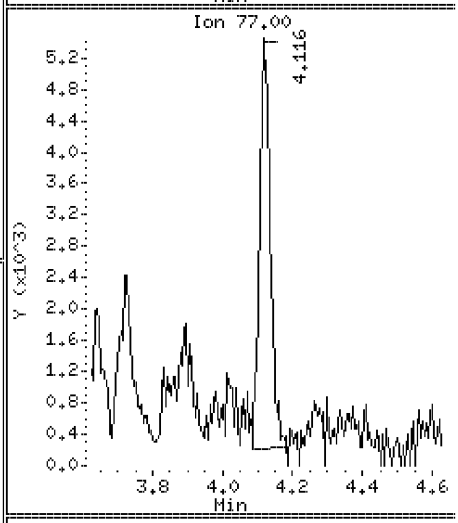


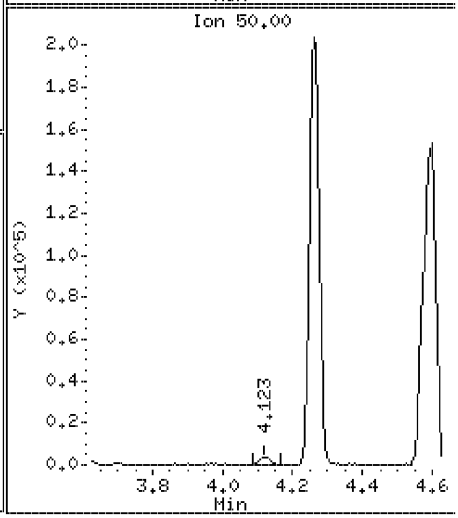












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

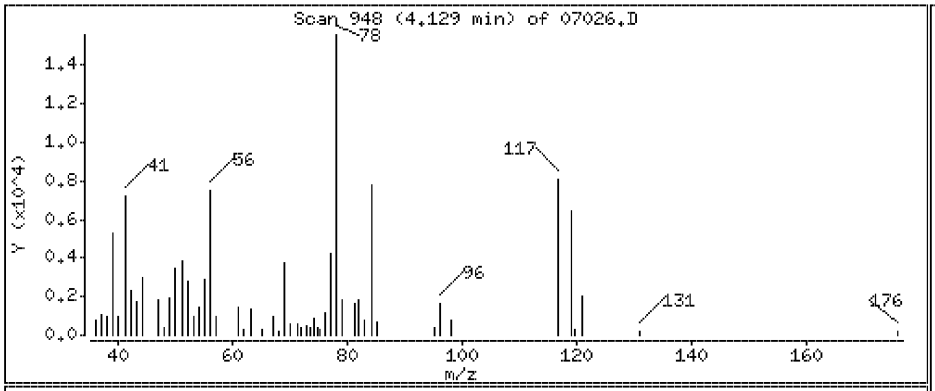
Operator: DR1

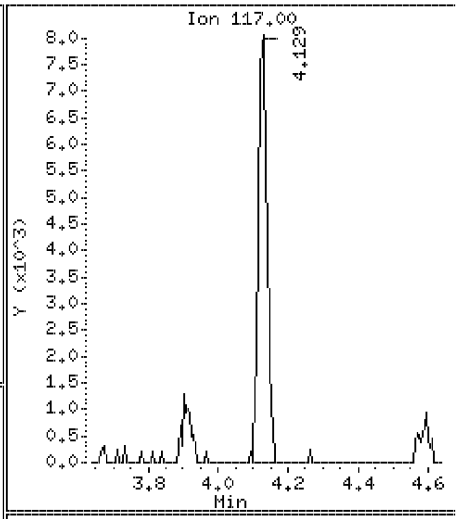
Column phase: J&W DB-5

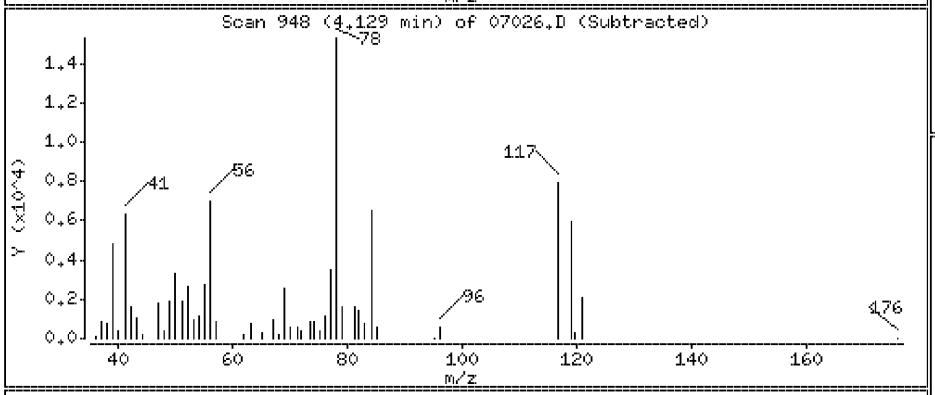
Column diameter: 0.32

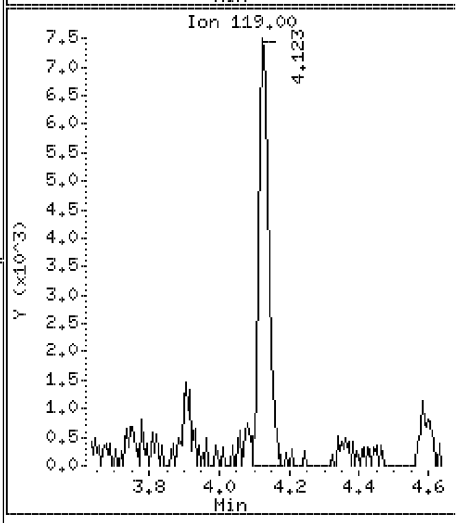
45 Carbon tetrachloride

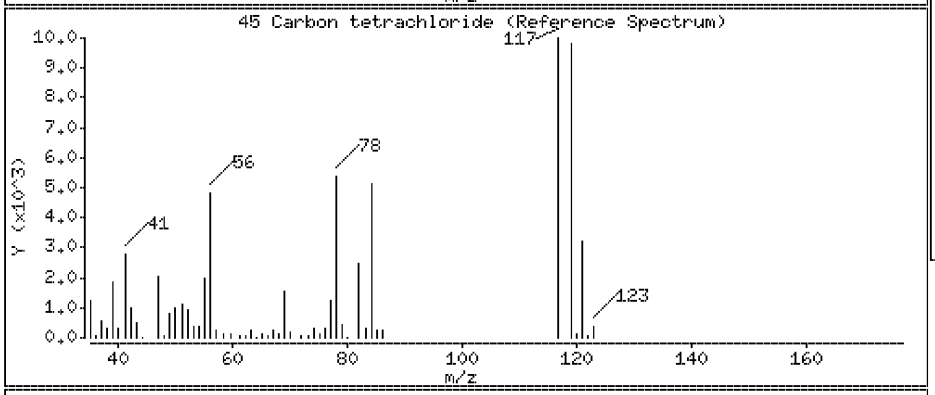
Concentration: 0.377 ppbv

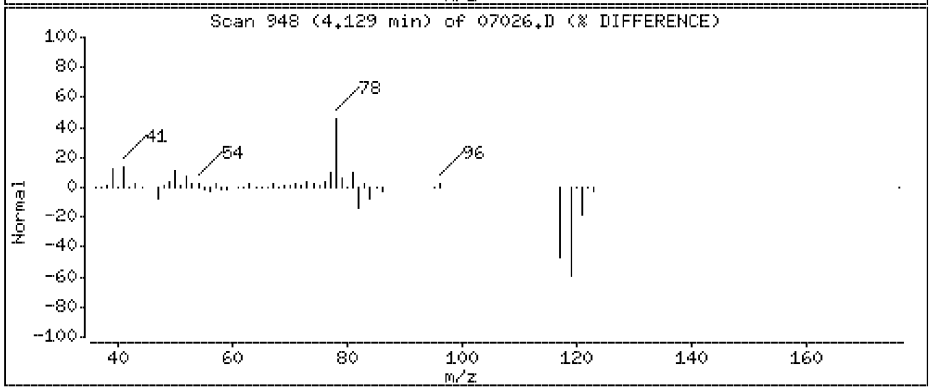












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

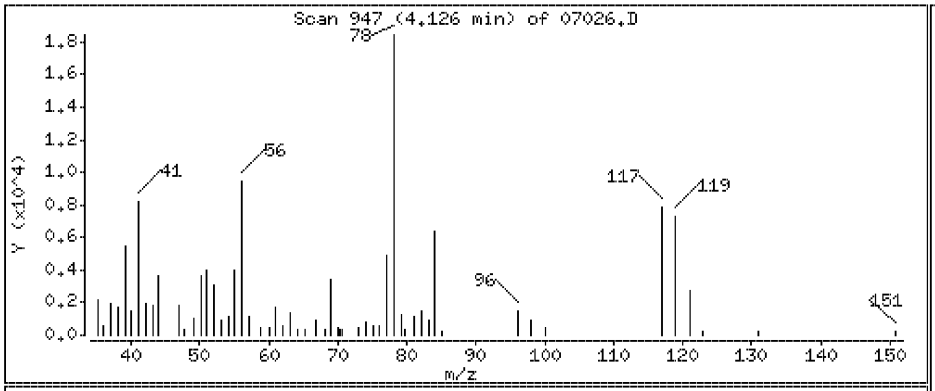
Operator: DR1

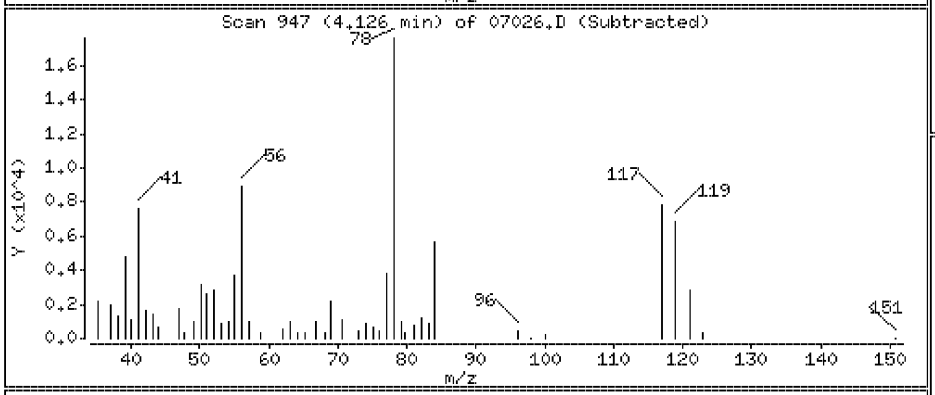
Column phase: J&W DB-5

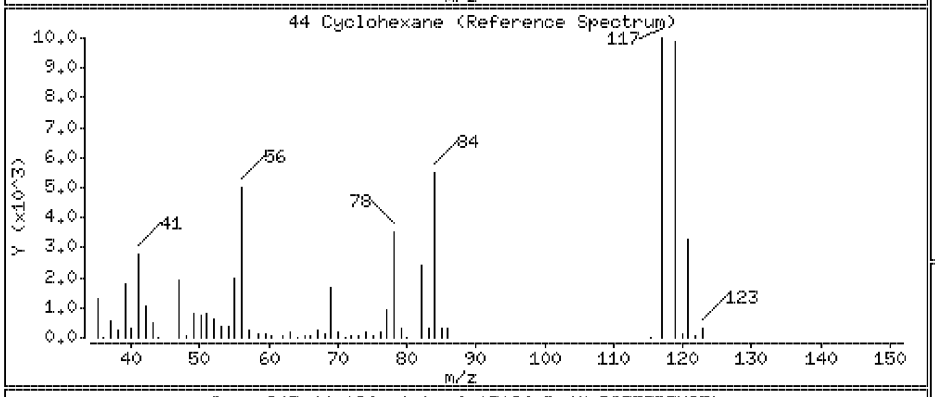
Column diameter: 0.32

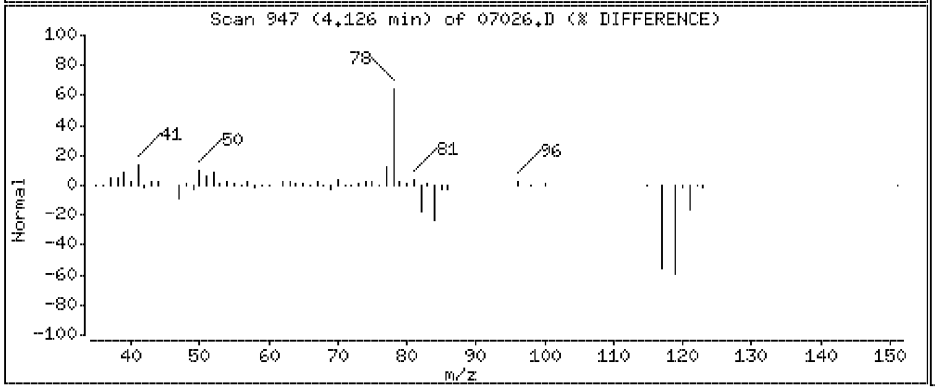
44 Cyclohexane

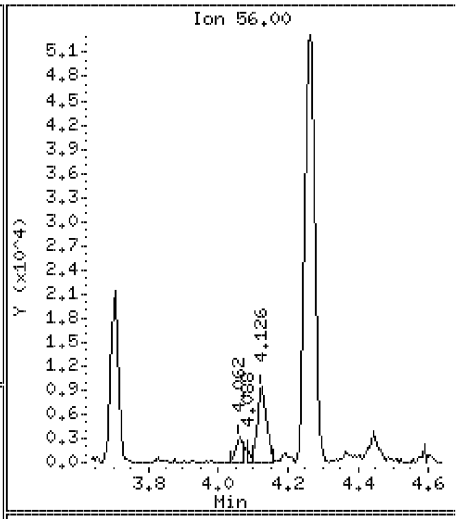
Concentration: 0.680 ppbv

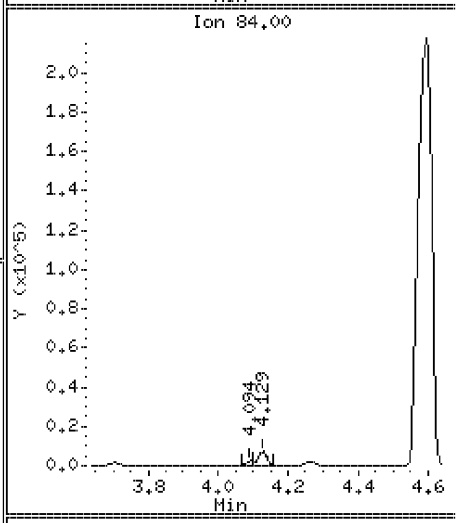


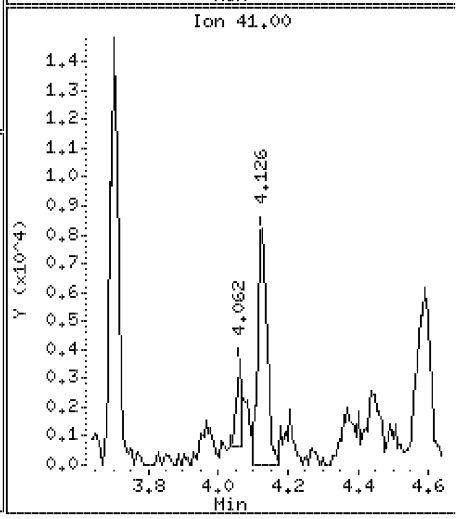












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

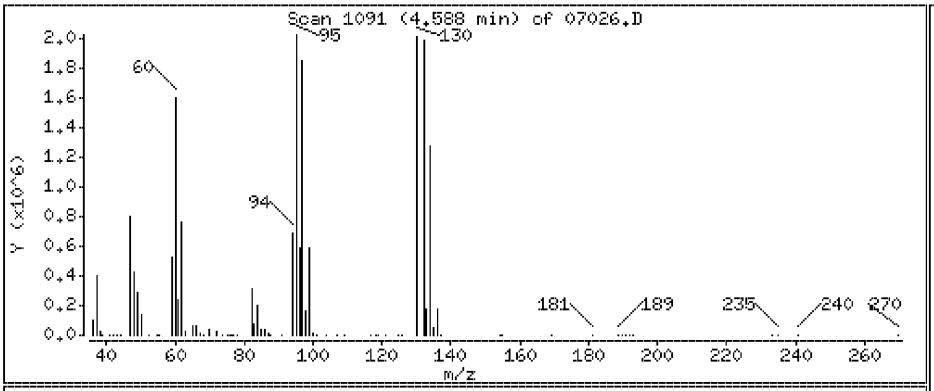
Operator: DR1

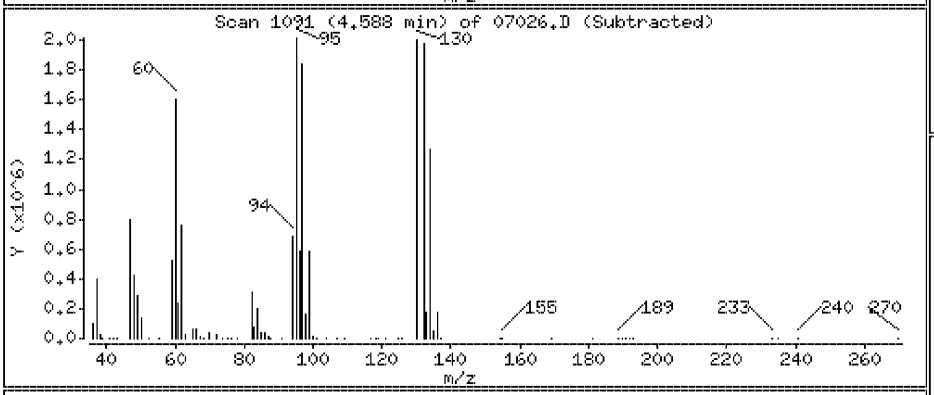
Column phase: J&W DB-5

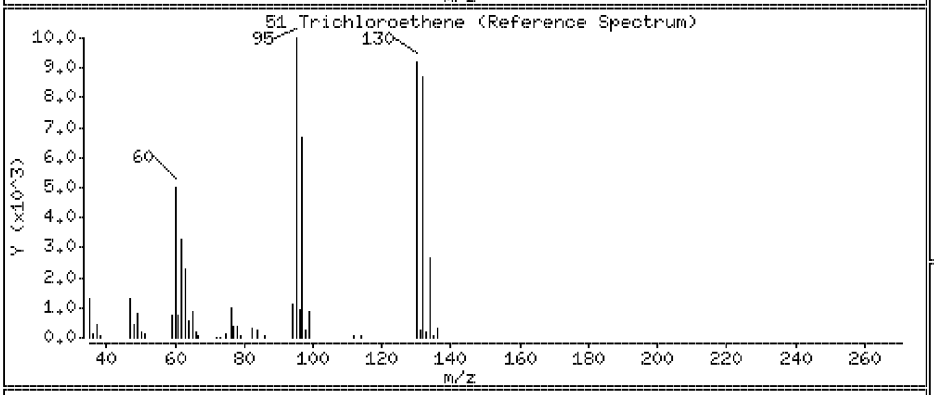
Column diameter: 0.32

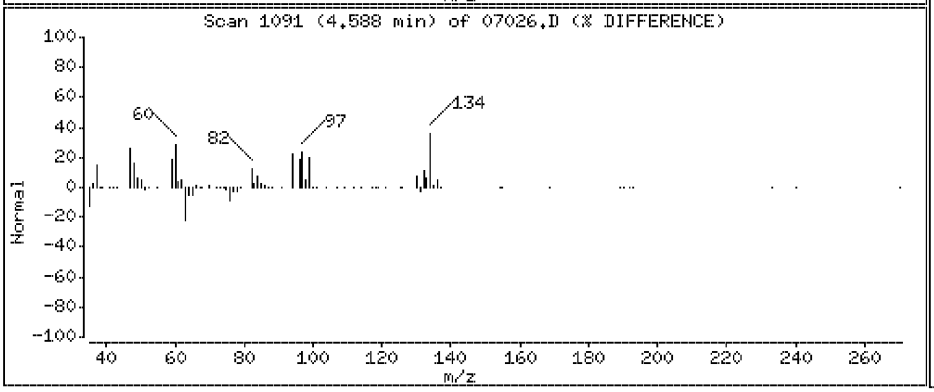
51 Trichloroethene

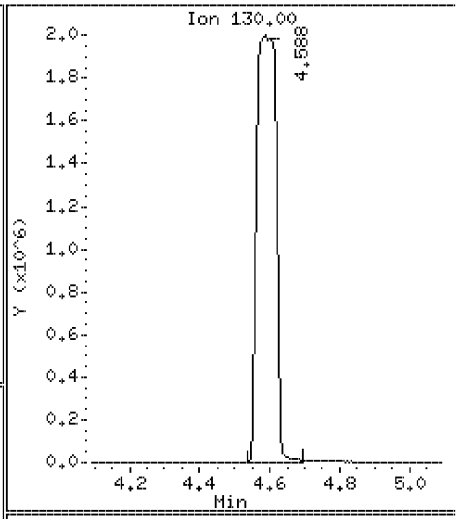
Concentration: 316 ppbv

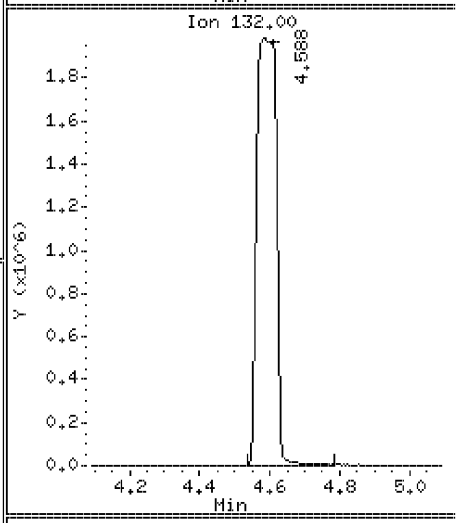


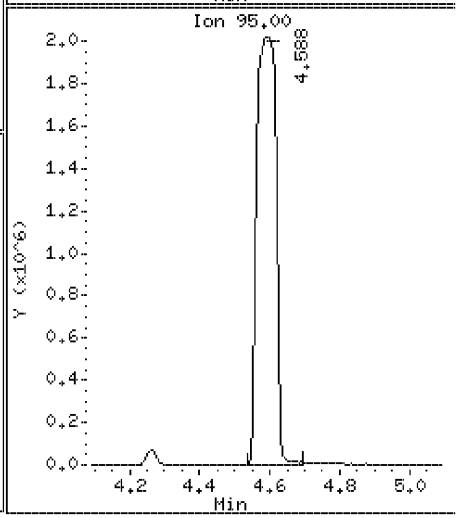












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

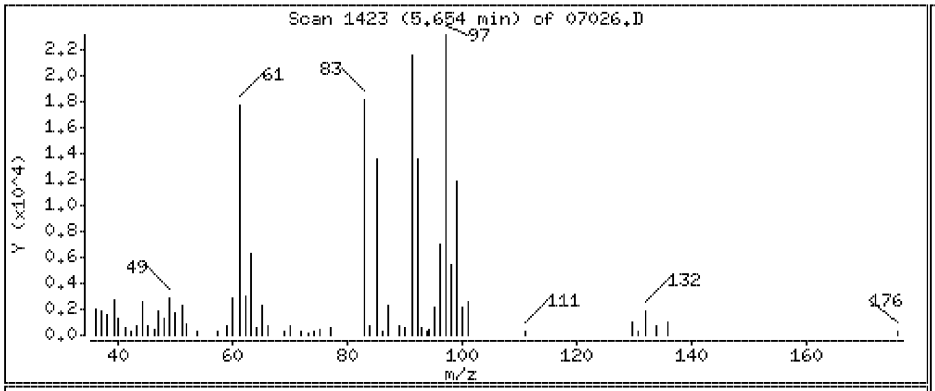
Operator: DR1

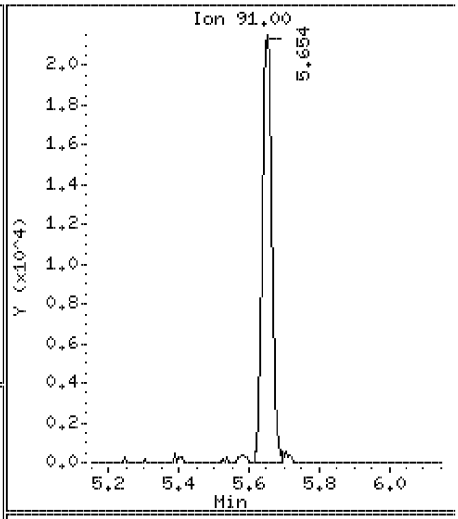
Column phase: J&W DB-5

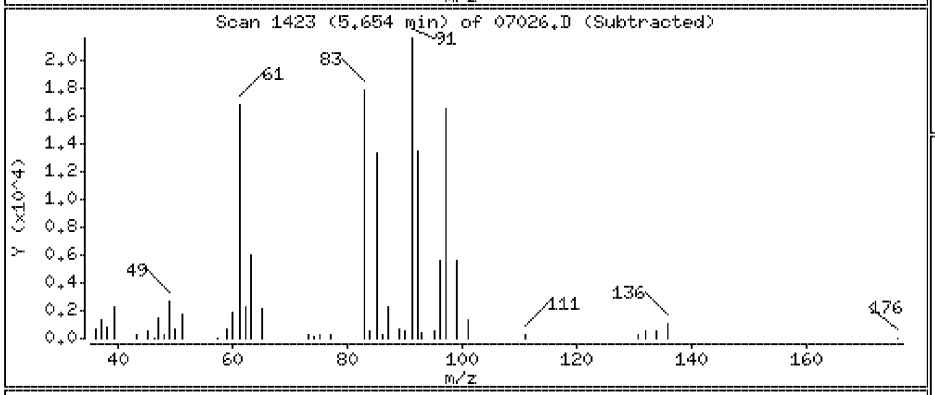
Column diameter: 0.32

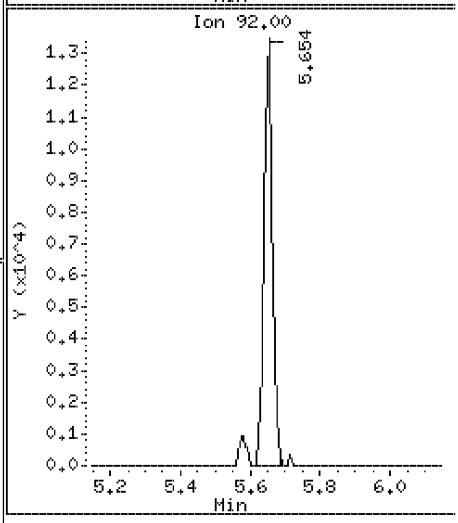
60 Toluene

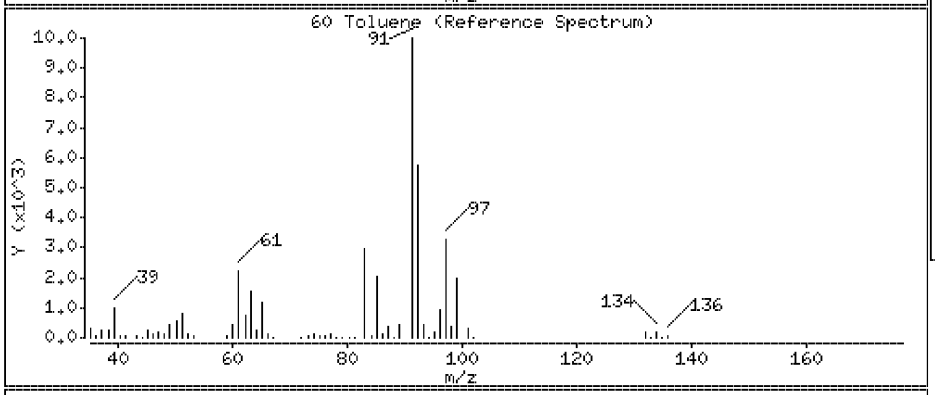
Concentration: 0.637 ppbv

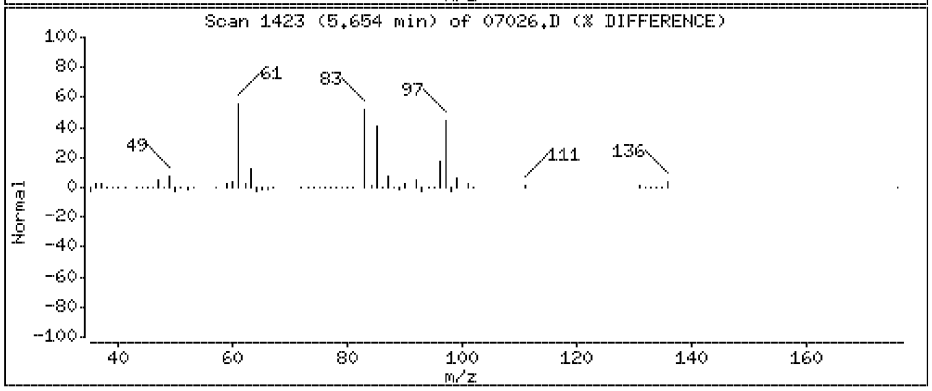












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

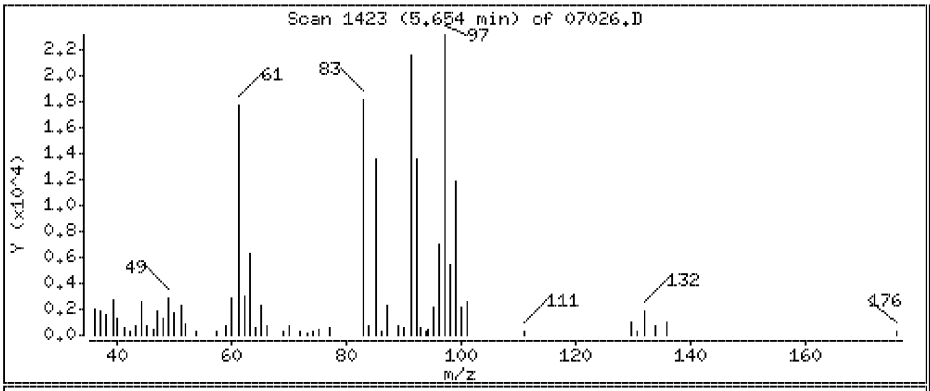
Operator: DR1

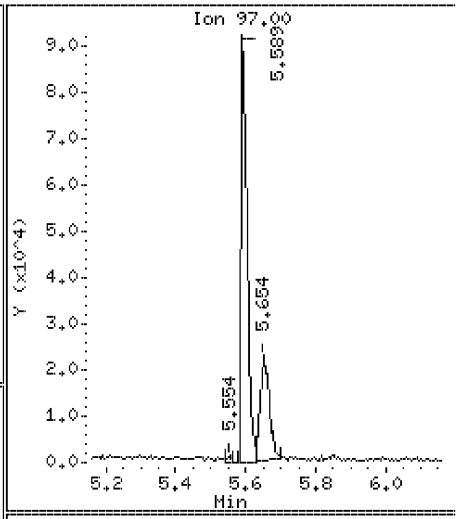
Column phase: J&W DB-5

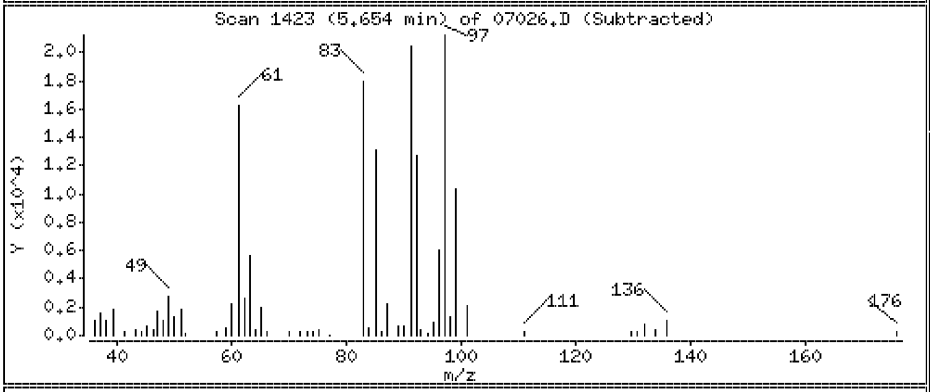
Column diameter: 0.32

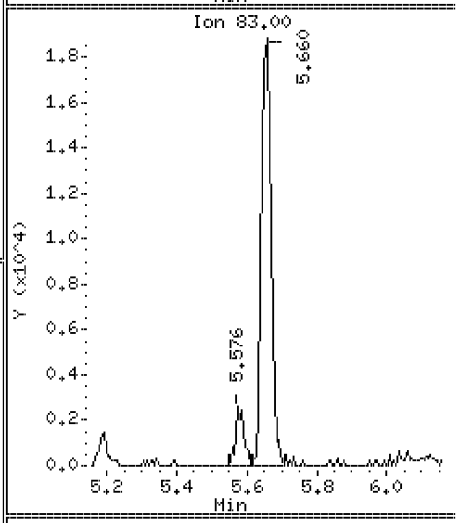
61 1,1,2-Trichloroethane

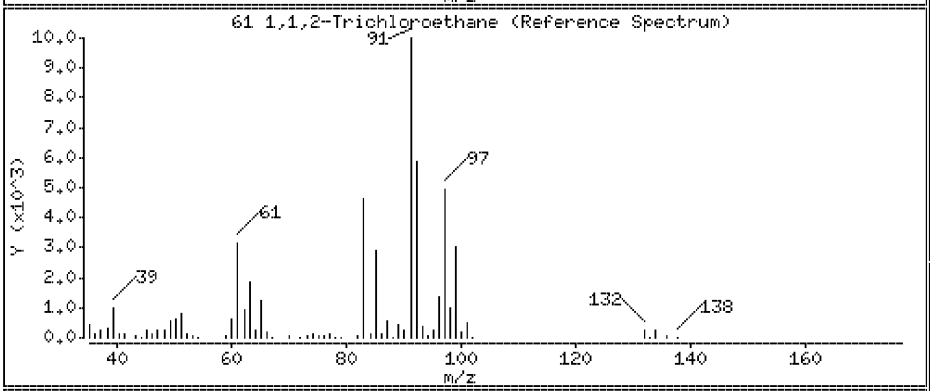
Concentration: 1.67 ppbv

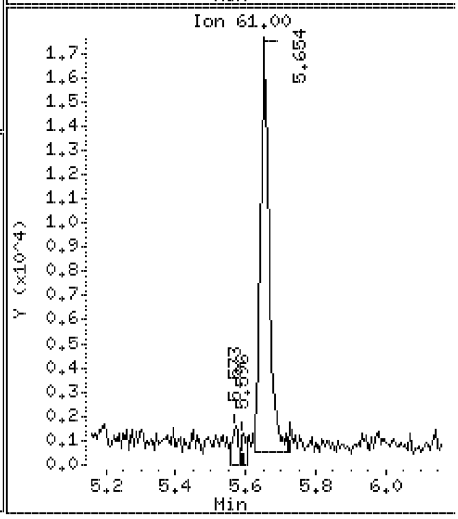


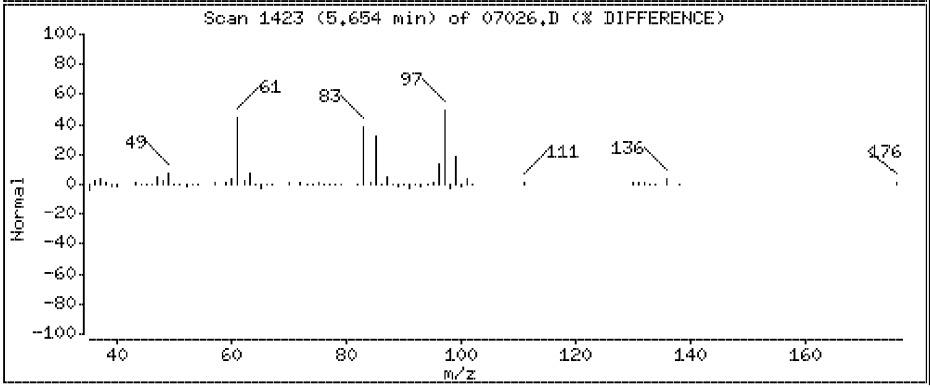












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

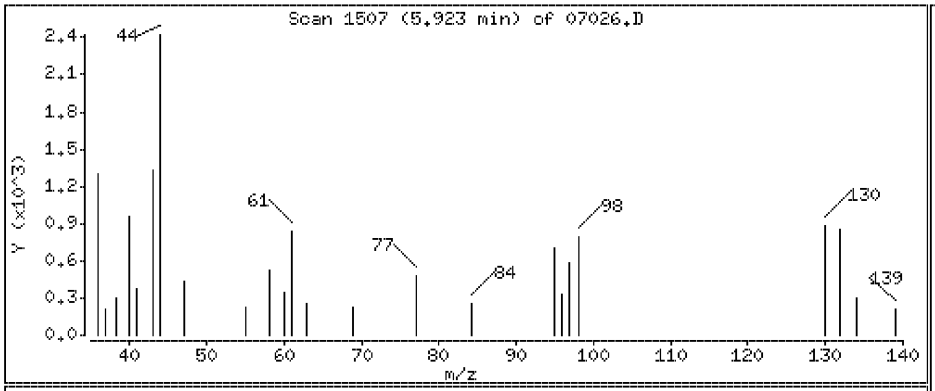
Operator: DR1

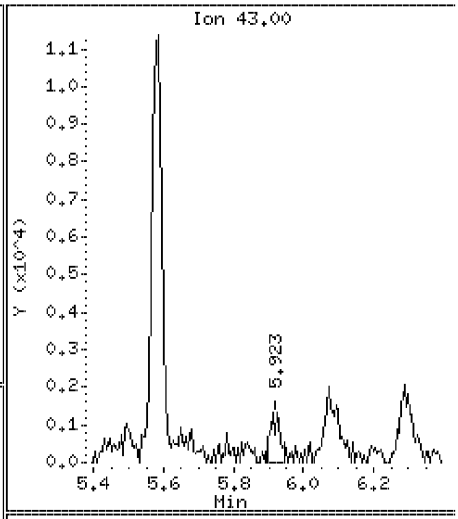
Column phase: J&W DB-5

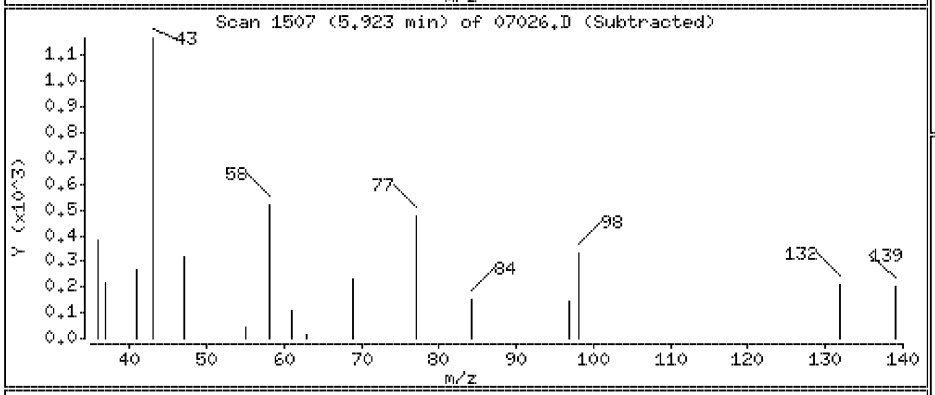
Column diameter: 0.32

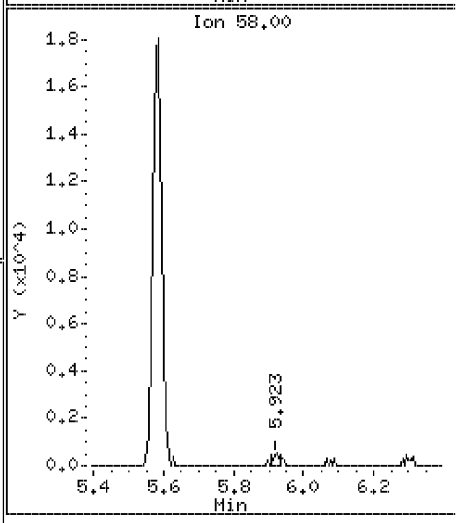
62 Methyl Butyl Ketone

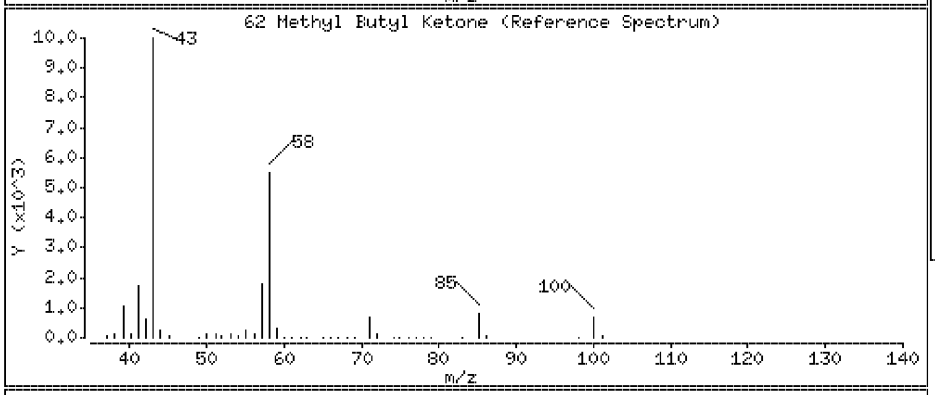
Concentration: 0.0718 ppbv

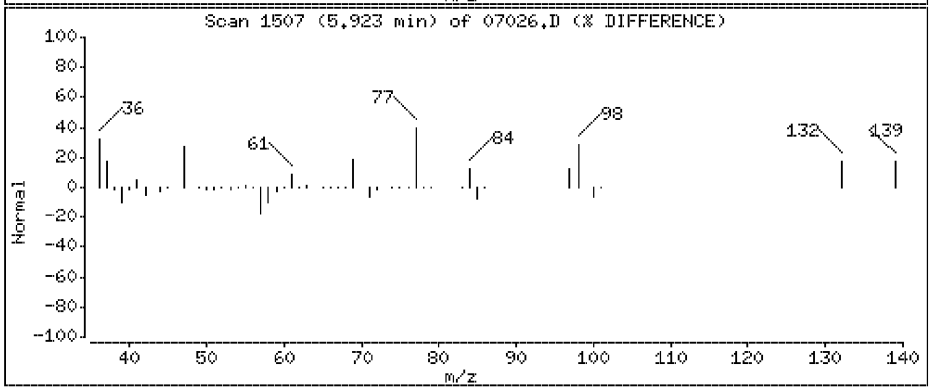












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

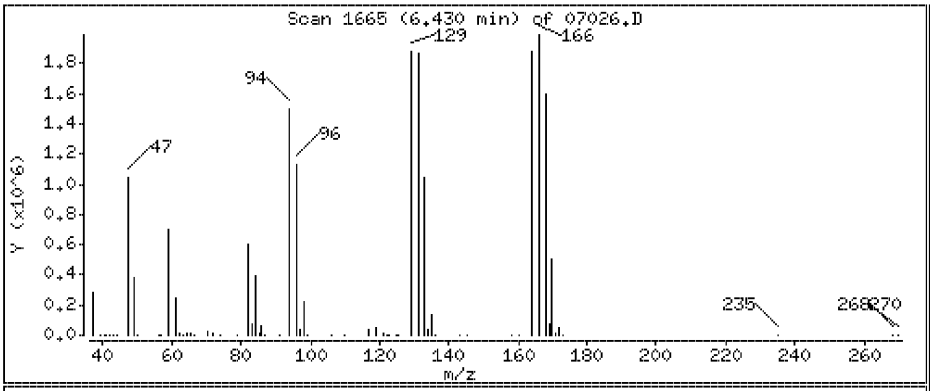
Operator: DR1

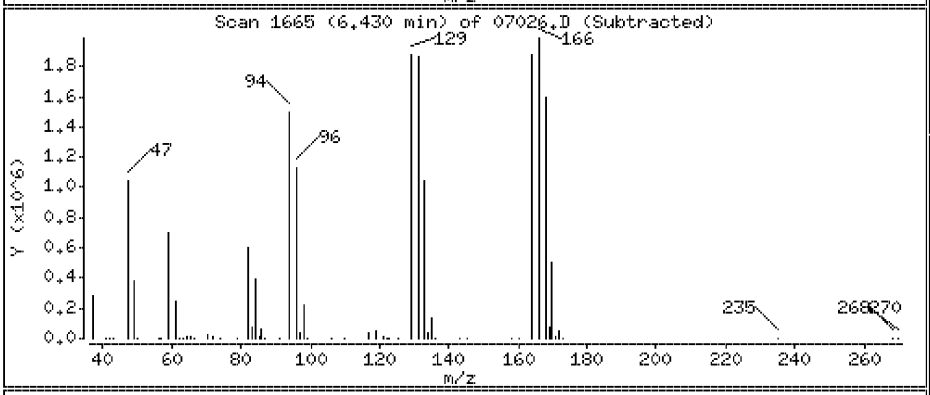
Column phase: J&W DB-5

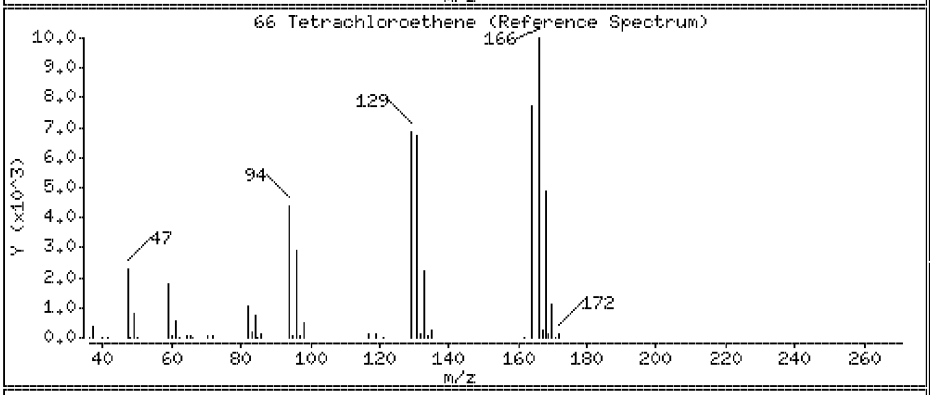
Column diameter: 0.32

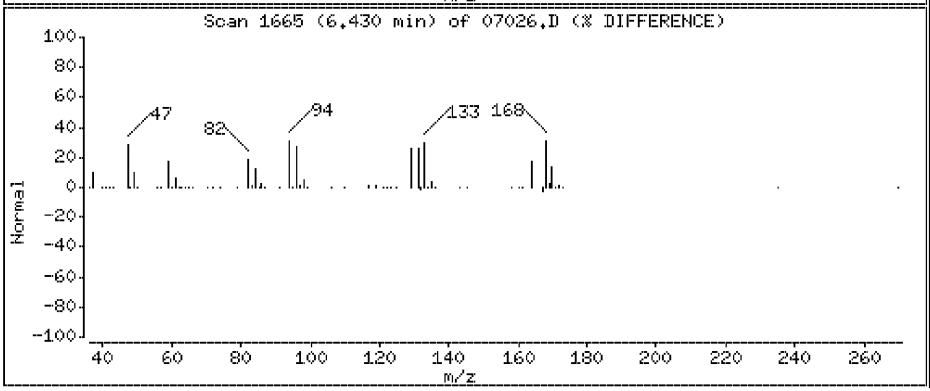
66 Tetrachloroethene

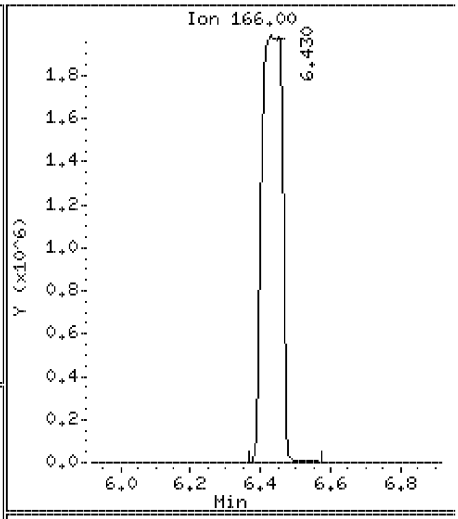
Concentration: 268 ppbv

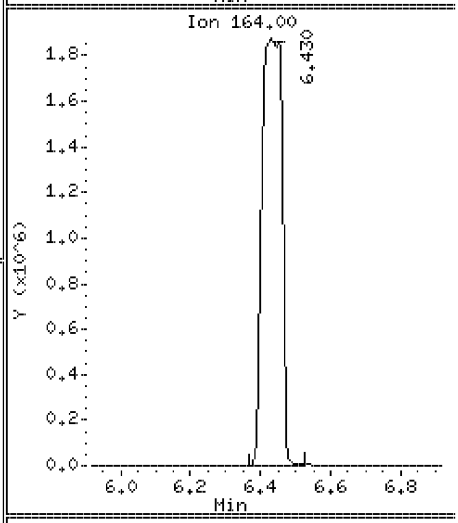


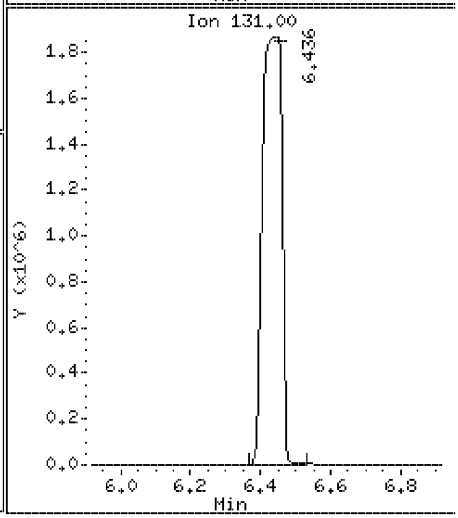












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

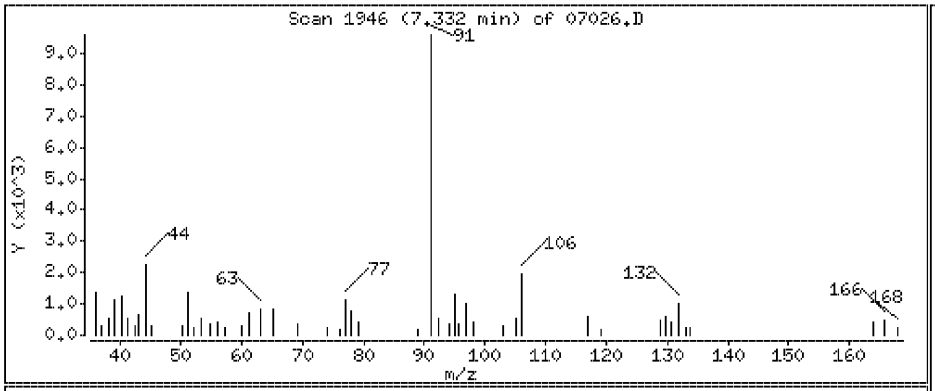
Operator: DR1

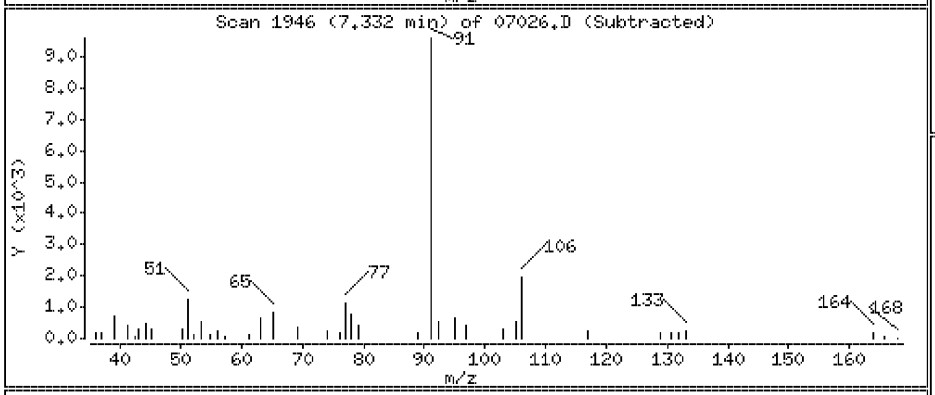
Column phase: J&W DB-5

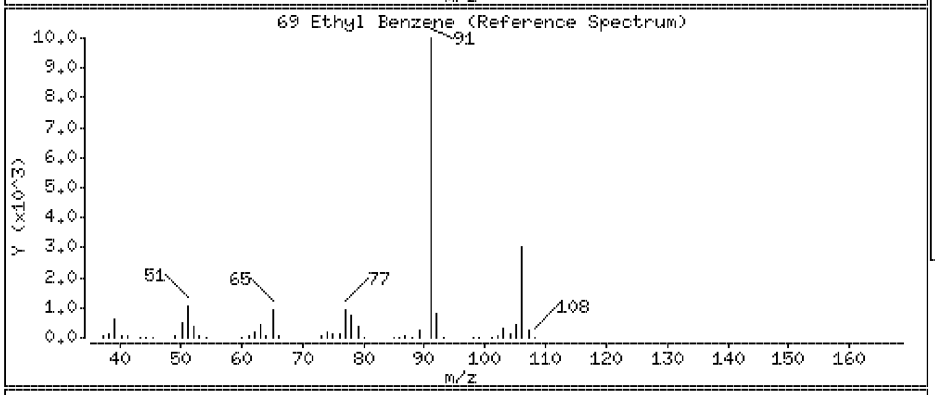
Column diameter: 0.32

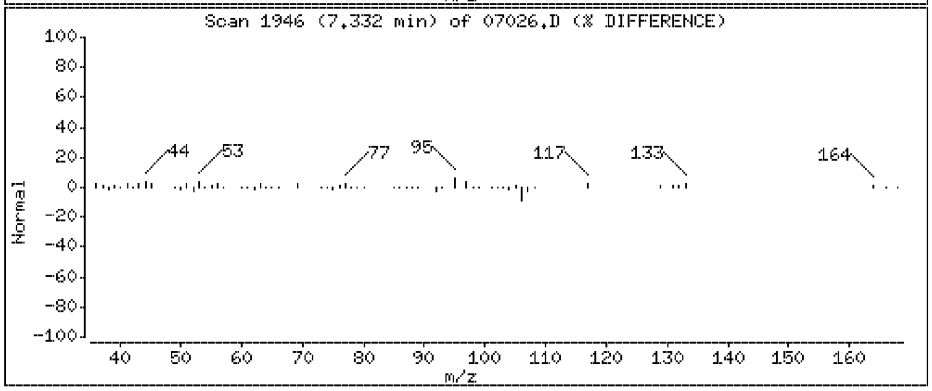
69 Ethyl Benzene

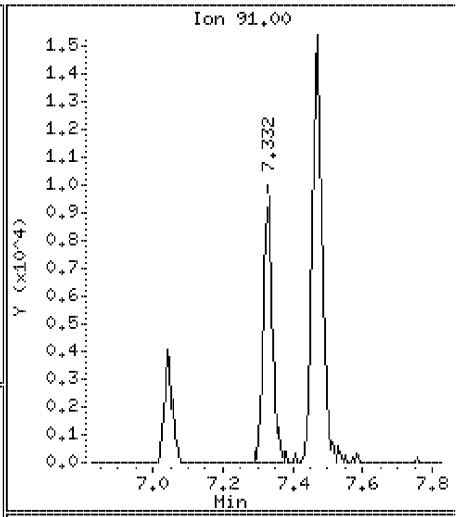
Concentration: 0.271 ppbv

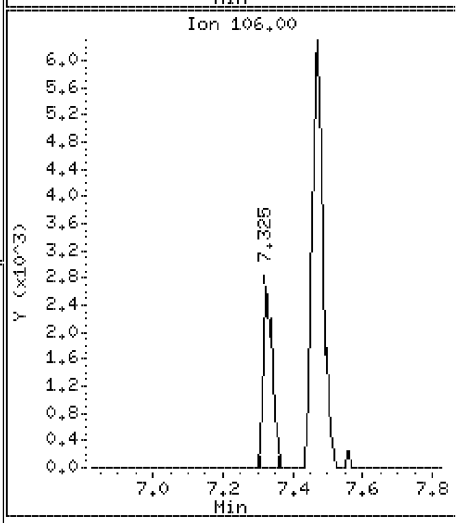












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

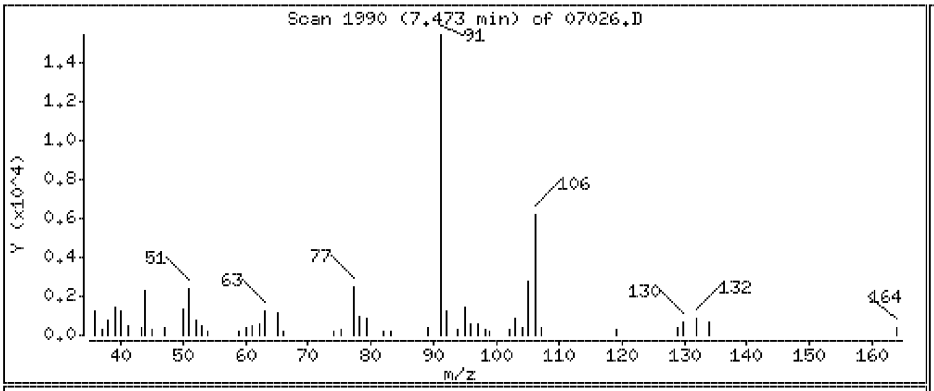
Operator: DR1

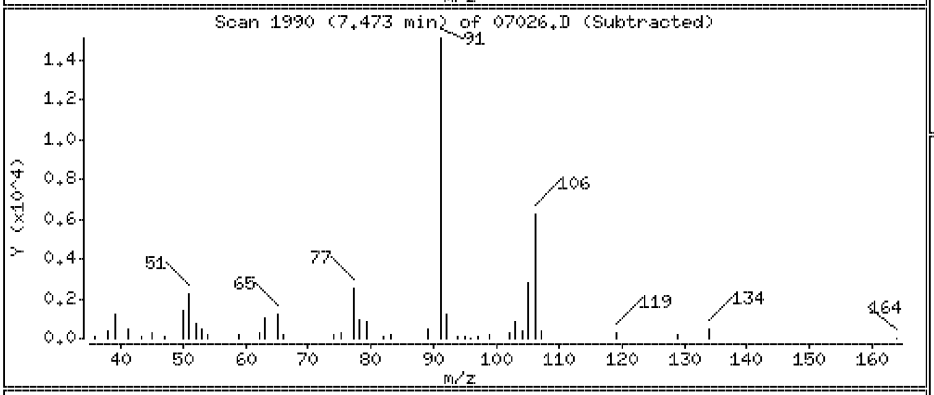
Column phase: J&W DB-5

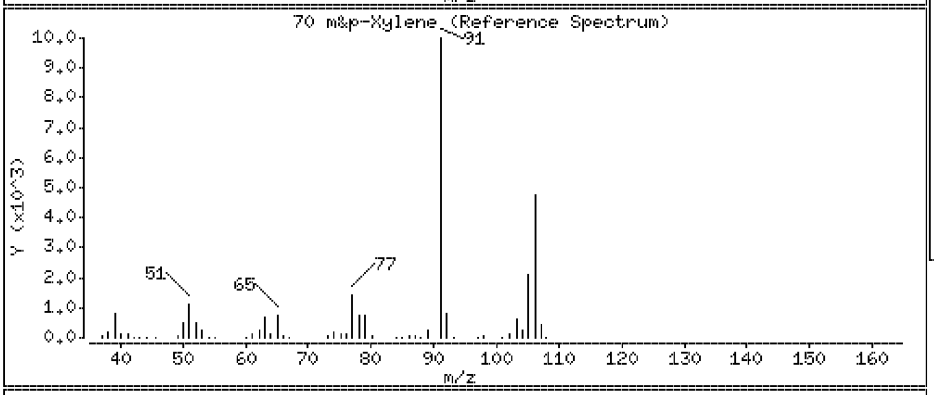
Column diameter: 0.32

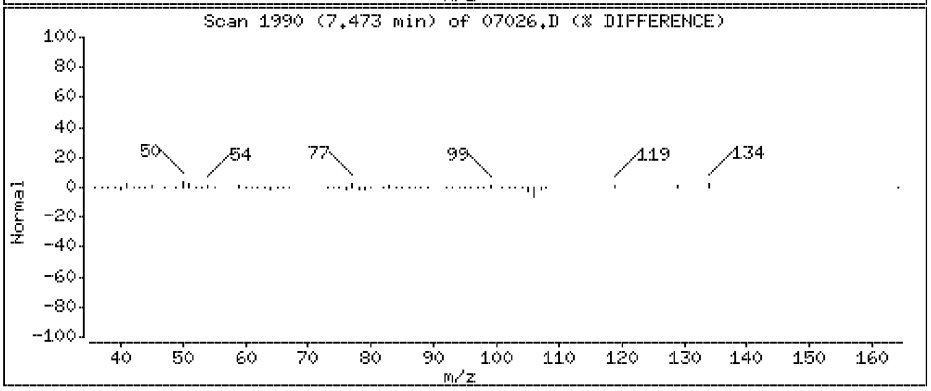
70 m&p-Xylene

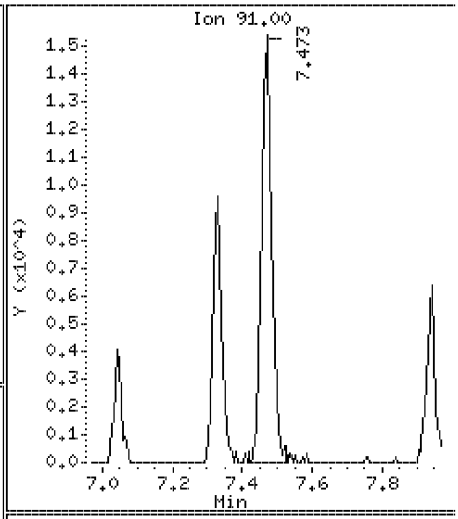
Concentration: 0.407 ppbv

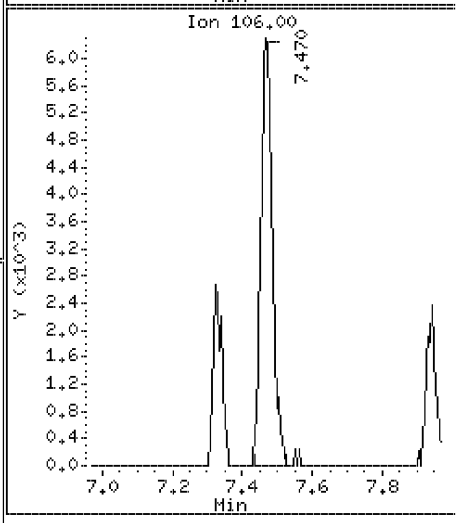












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

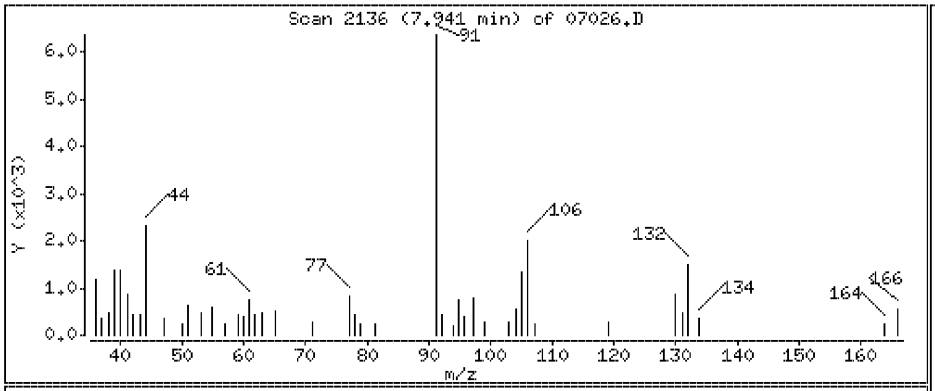
Operator: DR1

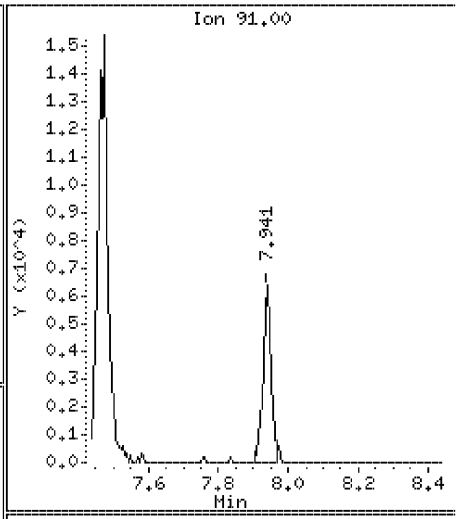
Column phase: J&W DB-5

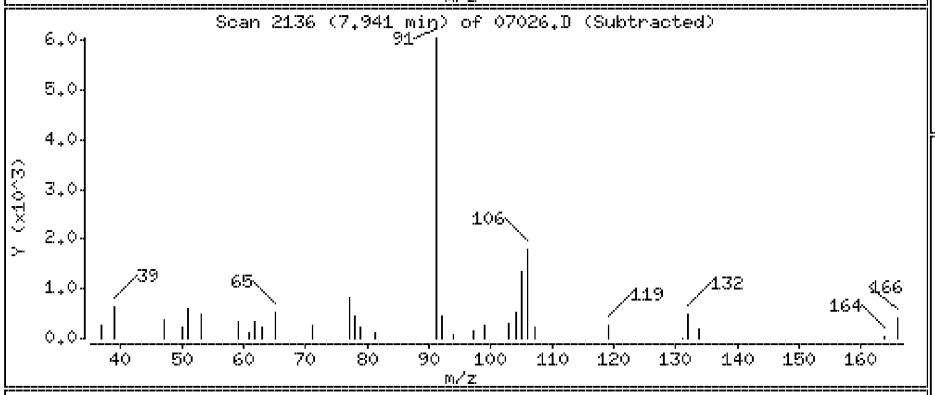
Column diameter: 0.32

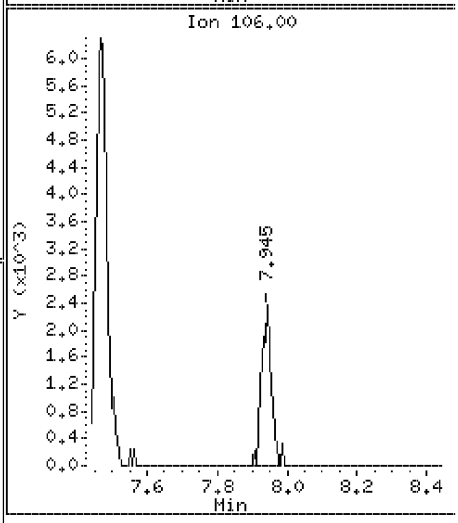
74 o-Xylene

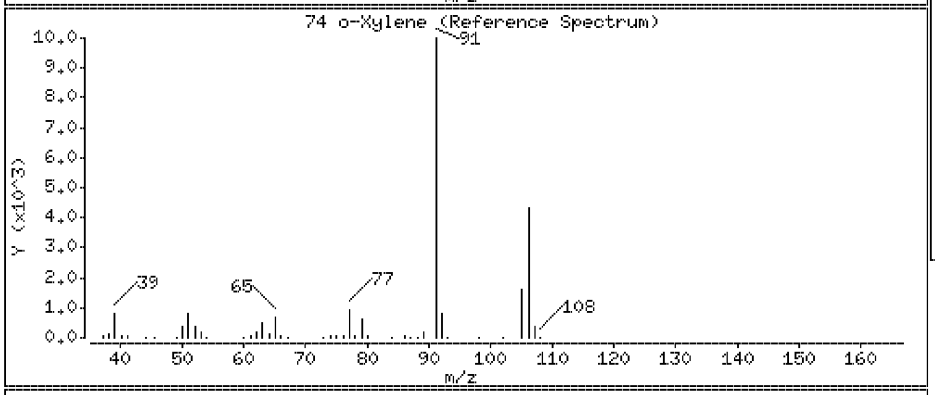
Concentration: 0.191 ppbv

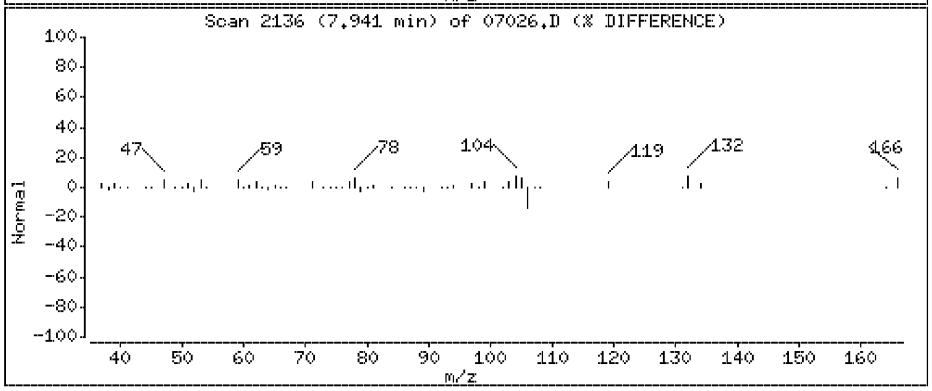












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

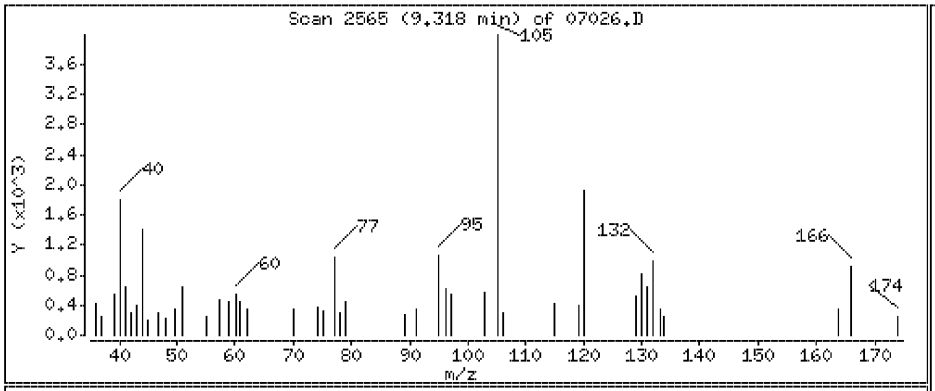
Operator: DR1

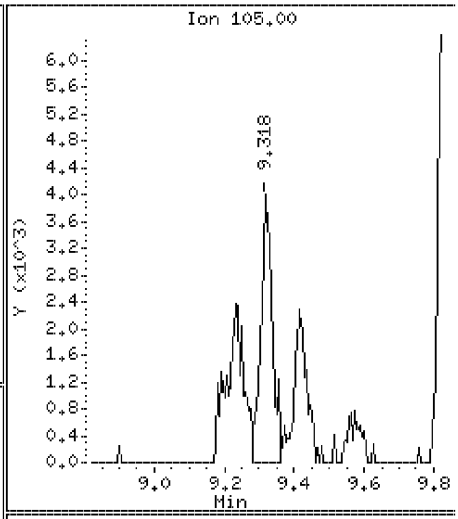
Column phase: J&W DB-5

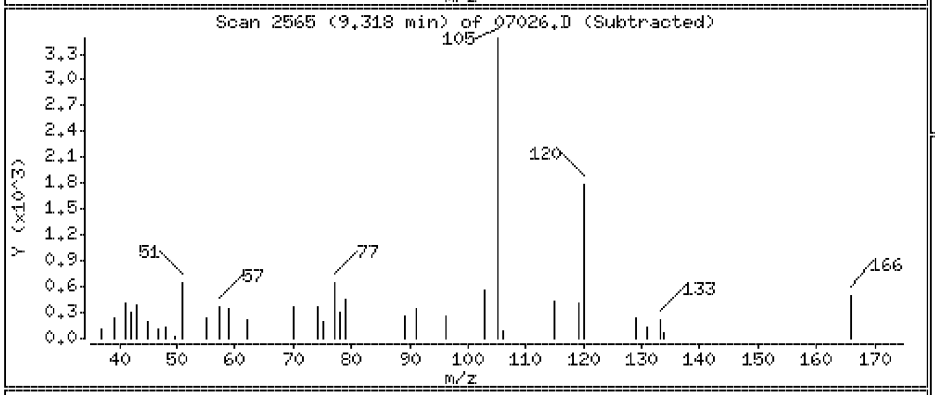
Column diameter: 0.32

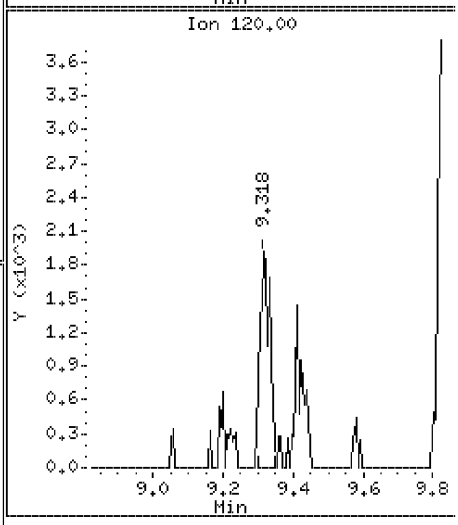
79 1,3,5-Trimethylbenzene

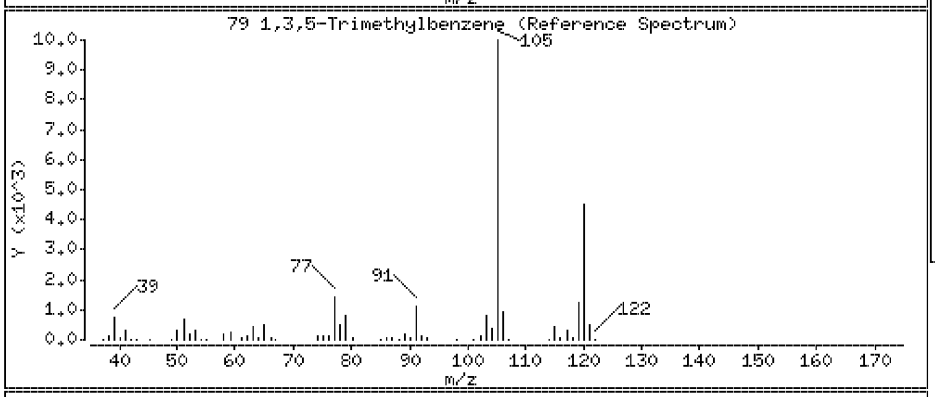
Concentration: 0.114 ppbv

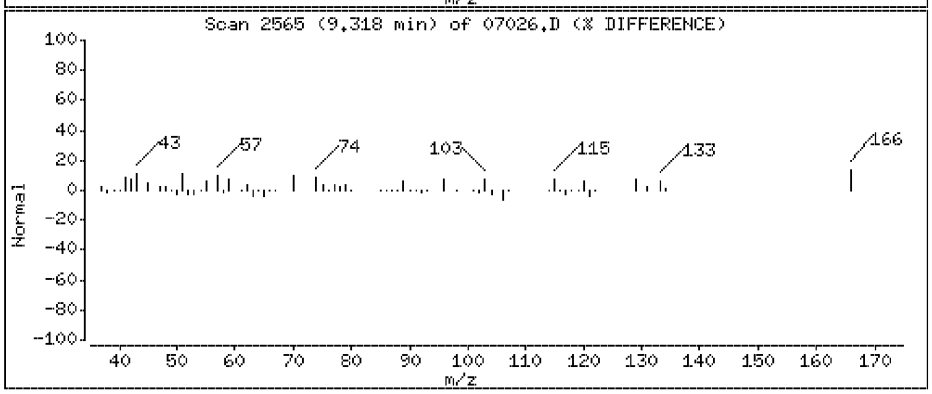












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

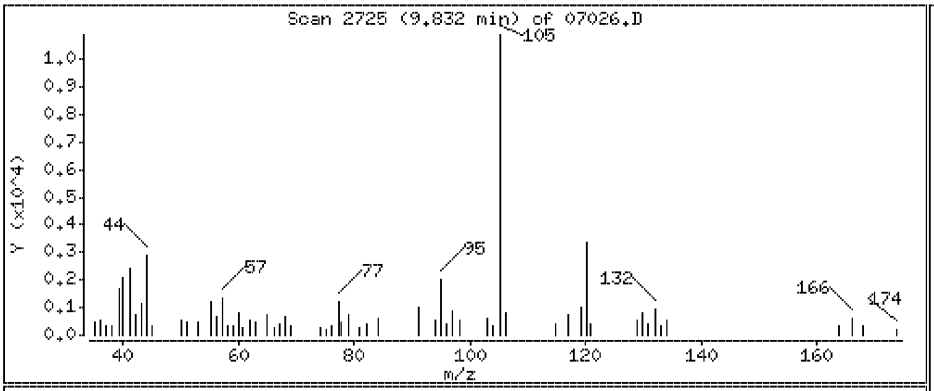
Operator: DR1

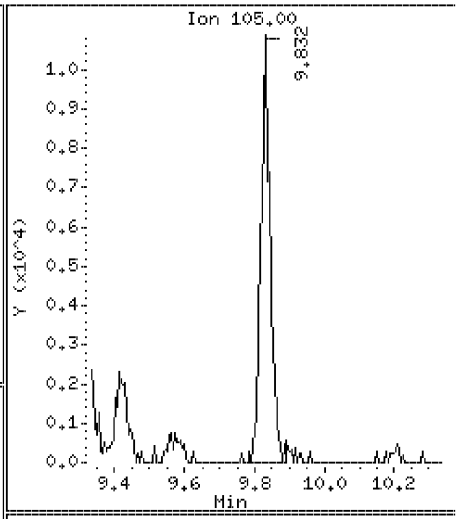
Column phase: J&W DB-5

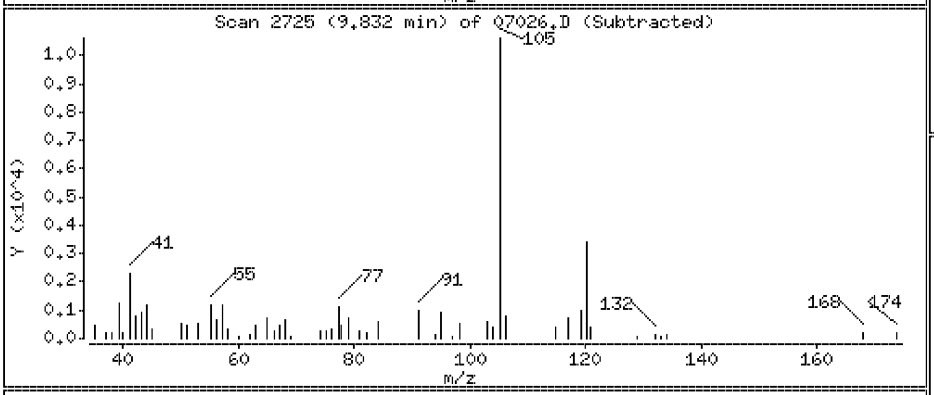
Column diameter: 0.32

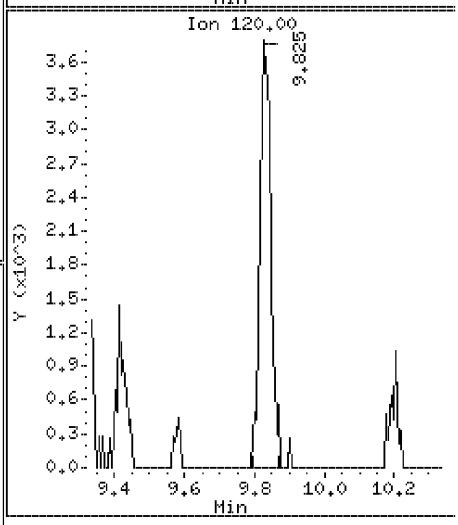
82 1,2,4-Trimethylbenzene

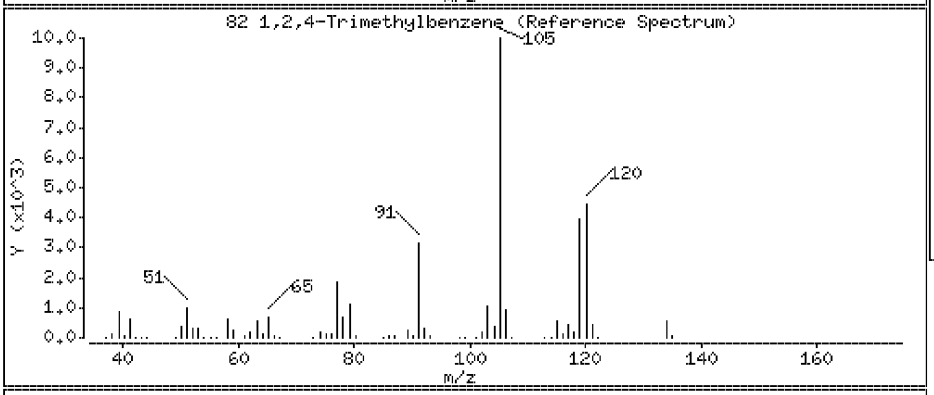
Concentration: 0.230 ppbv

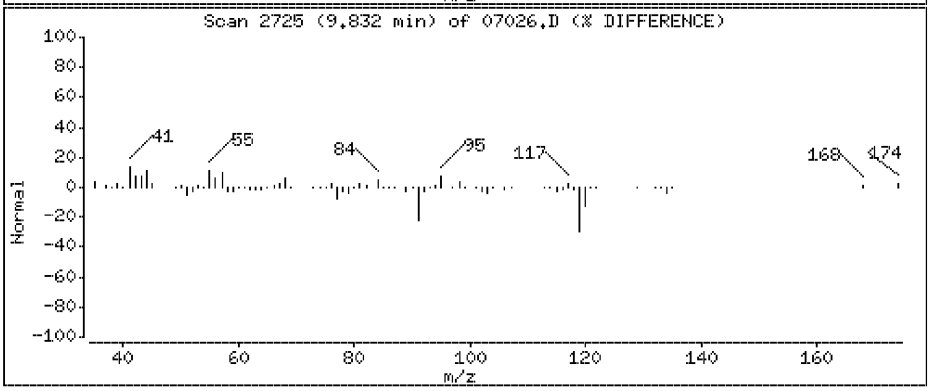












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07026.D

Date : 11-MAR-2017 23:18

Client ID:

Instrument: 10airD.i

Sample Info:

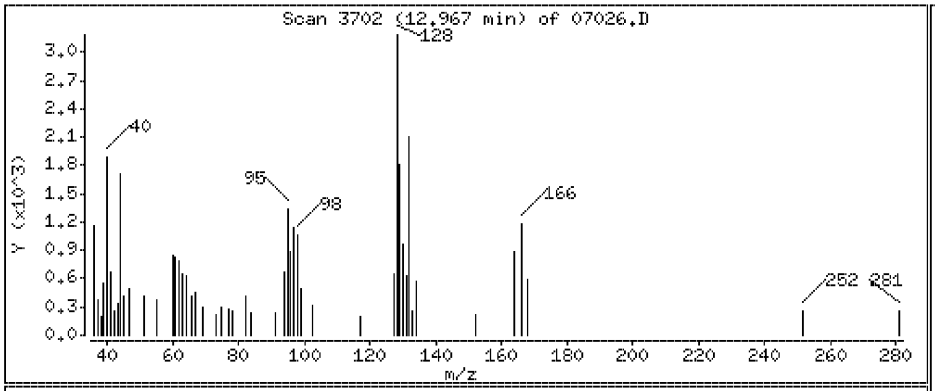
Operator: DR1

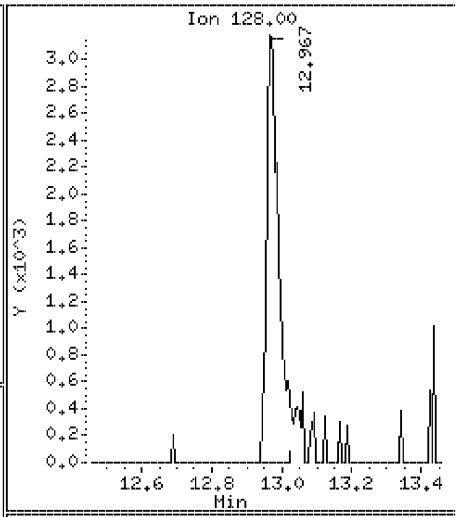
Column phase: J&W DB-5

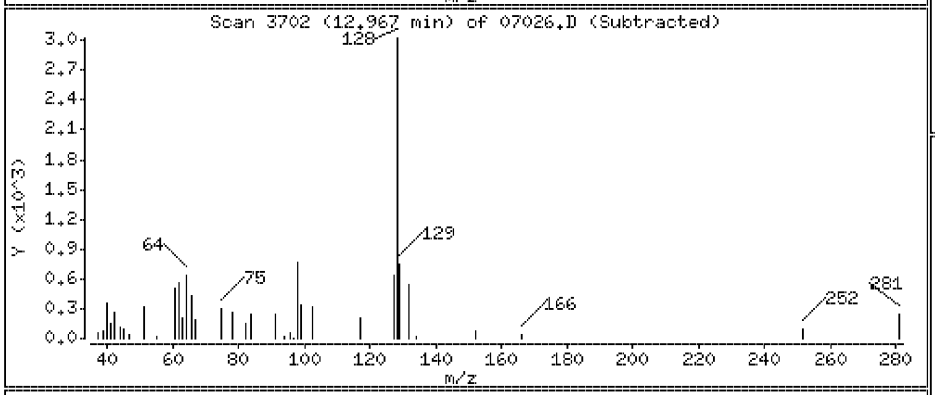
Column diameter: 0.32

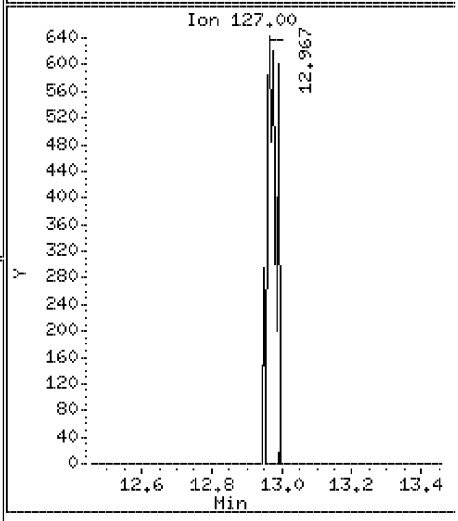
94 Naphthalene

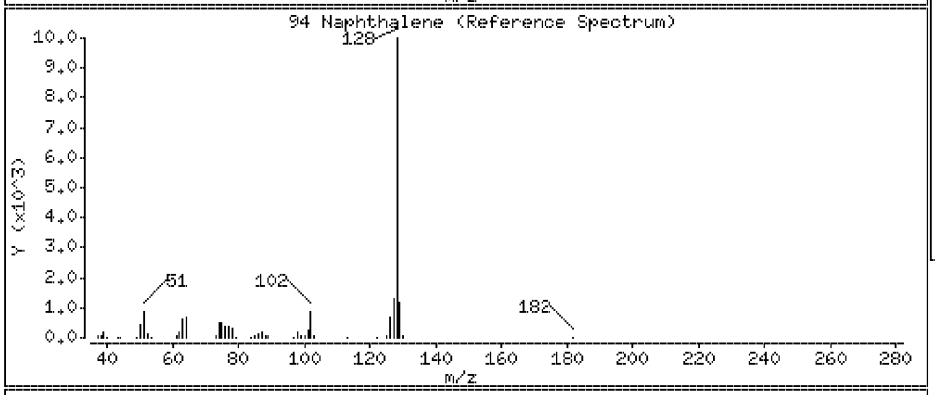
Concentration: 0.512 ppbv

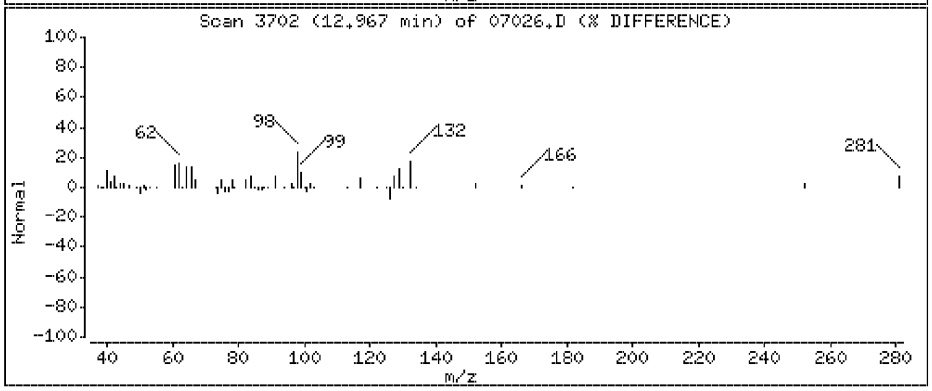






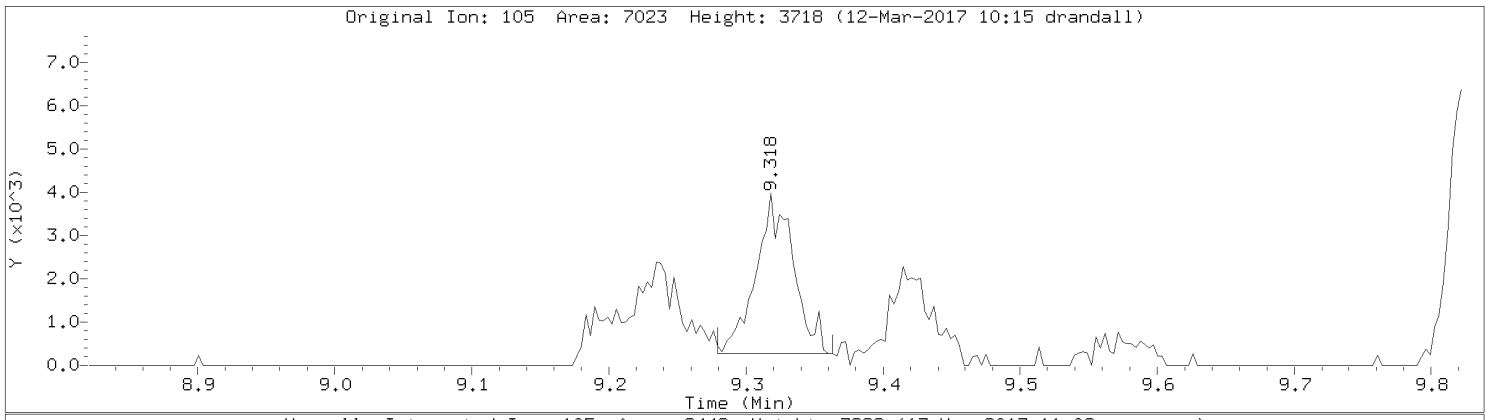


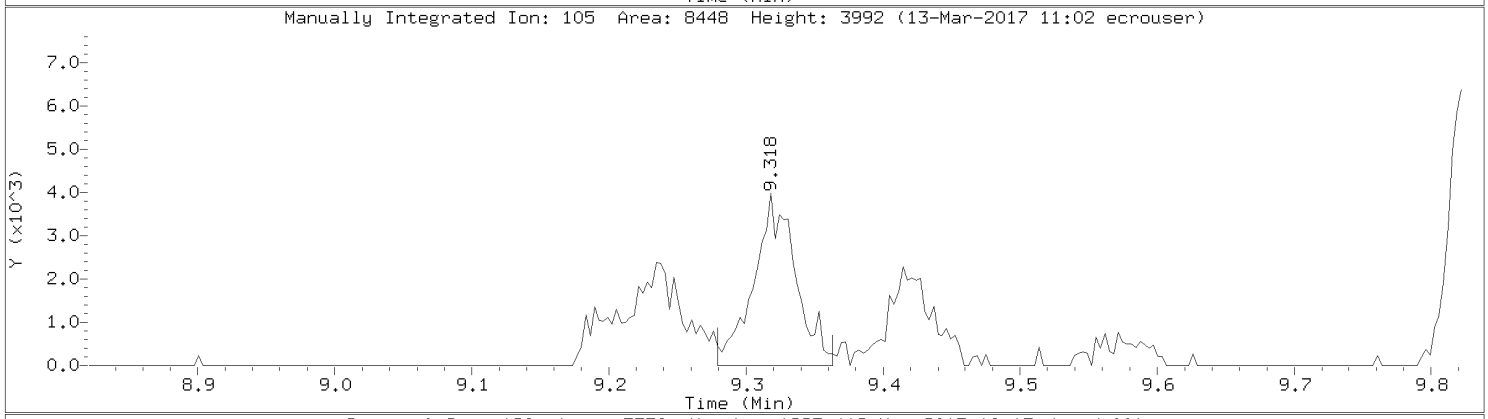


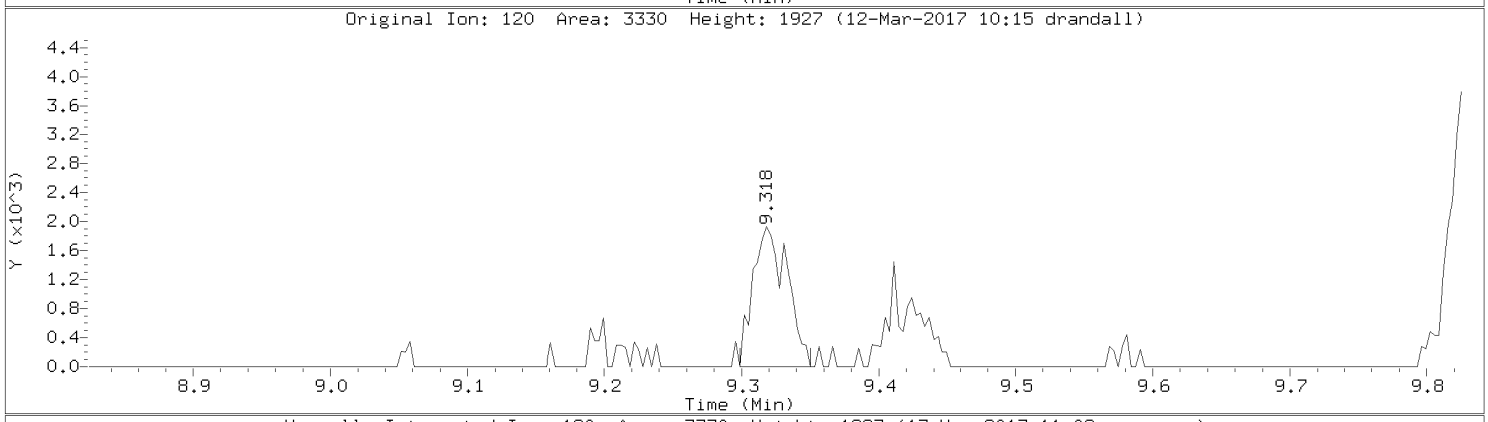


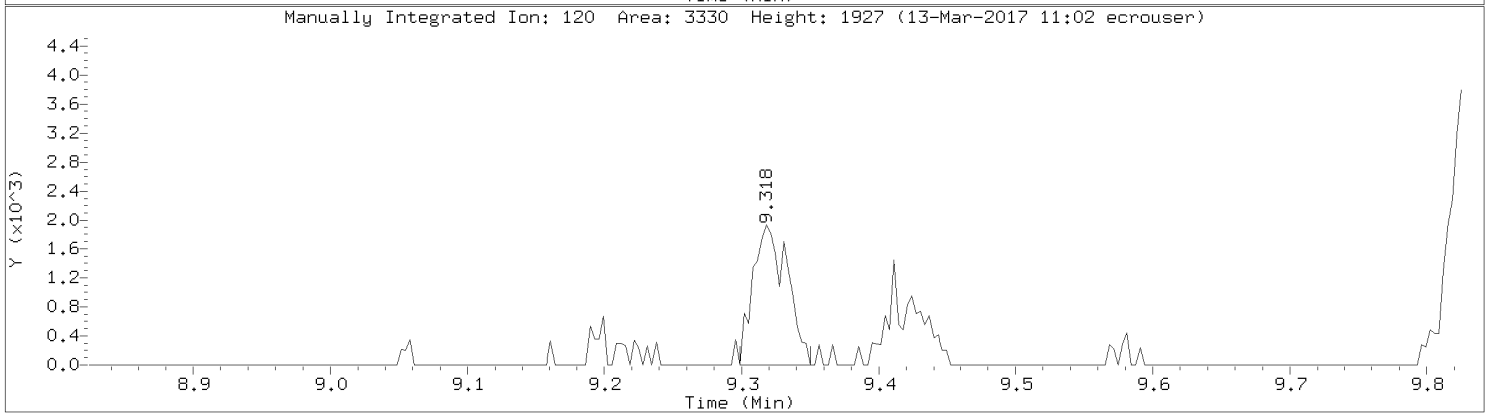
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07026.d
Injection Date: 11-MAR-2017 23:18
Instrument: 10airD.i
Lab Sample ID: 10380372018

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8









Data File: \\192.168.10.12\chem\10airD.i\031217.b\07118.d
Report Date: 13-Mar-2017 16:14

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031217.b\07118.d
Lab Smp Id: 10380372018
Inj Date : 12-MAR-2017 18:01
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Meth Date : 13-Mar-2017 12:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 18
Dil Factor: 1120.00000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1120.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	8	Vinyl chloride	62	Compound Not Detected.						
	18	Acetone	43	Compound Not Detected.						
	20	1,1-Dichloroethene	61	Compound Not Detected.						
	25	Methylene chloride	49	Compound Not Detected.						(D)
	27	Carbon Disulfide	76	Compound Not Detected.						
	28	trans-1,2-dichloroethene	96	Compound Not Detected.						
	29	Methyl Tert Butyl Ether	73	Compound Not Detected.						
	31	1,1-Dichloroethane	63	Compound Not Detected.						
$	32	Hexane-d14(S)	66	3.262	3.272	(0.770)	1401079	8.69346	8.69	
	33	Methyl Ethyl Ketone	72	Compound Not Detected.						
	34	n-Hexane	57	Compound Not Detected.						
	36	cis-1,2-Dichloroethene	96	3.452	3.471	(0.815)	25802	1.15199	1290(Q)	
	41	1,1,1-Trichloroethane	97	Compound Not Detected.						
	43	Benzene	78	Compound Not Detected.						
*	47	1,4-Difluorobenzene	114	4.238	4.251	(1.000)	3035779	10.0000		
	51	Trichloroethene	130	4.559	4.575	(1.076)	108003	2.94524	3300	
$	59	Toluene-d8 (S)	98	5.557	5.566	(1.311)	2862315	9.40960	9.41	
	60	Toluene	91	Compound Not Detected.						
	66	Tetrachloroethene	166	6.397	6.407	(0.910)	85825	1.73574	1940	
*	67	Chlorobenzene - d5	117	7.026	7.033	(1.000)	2236622	10.0000		
	69	Ethyl Benzene	91	Compound Not Detected.						
	70	m&p-Xylene	91	Compound Not Detected.						
	74	o-Xylene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07118.d
Report Date: 13-Mar-2017 16:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	82 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
$	85 1,4-dichlorobenzene-d4 (S)	150	10.190	10.200	(1.450)	1173199	8.56131	8.56

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07118.d
Report Date: 13-Mar-2017 16:14

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07118.d
Lab Smp Id: 10380372018
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 12-MAR-2017
Calibration Time: 10:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

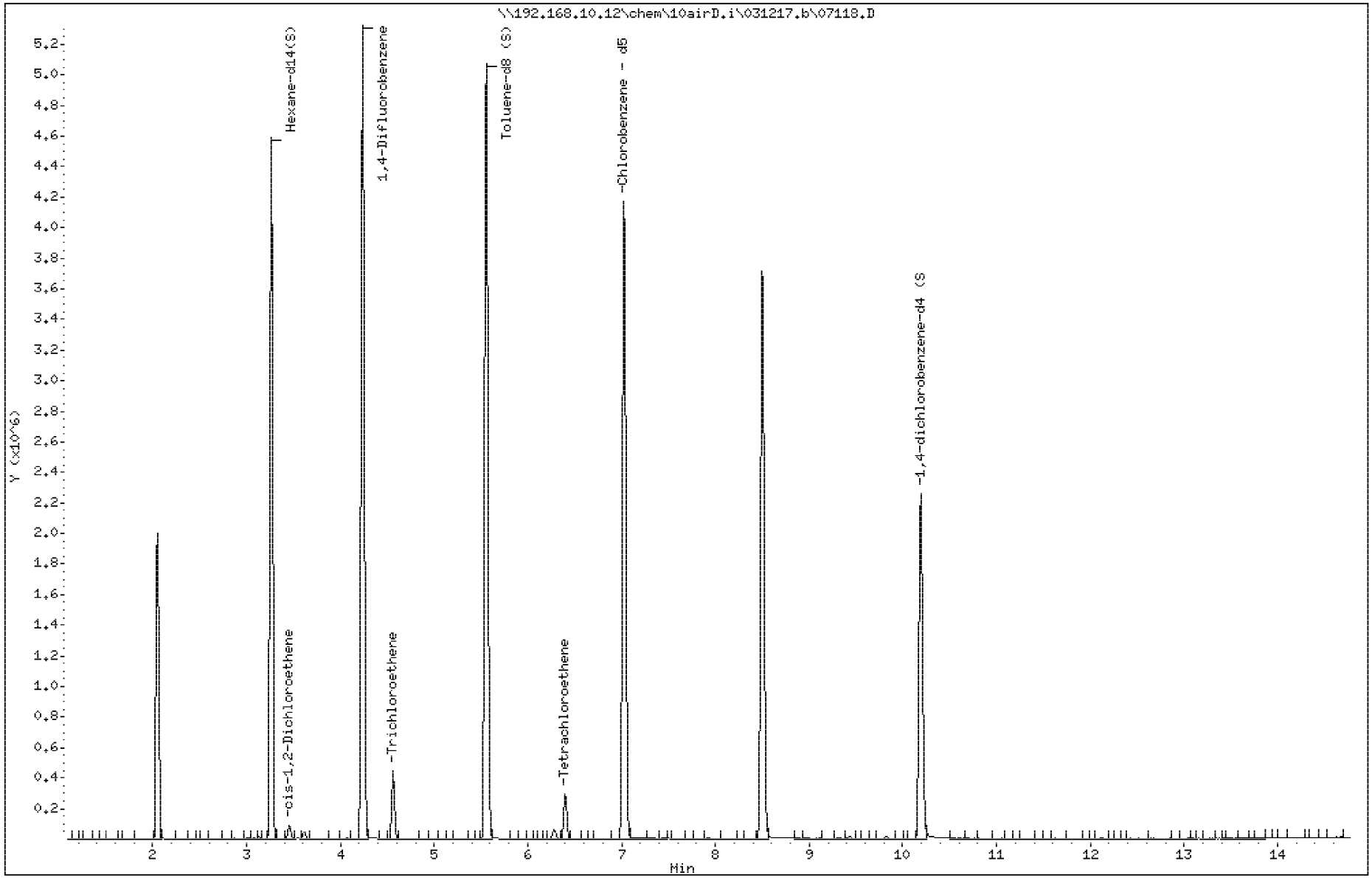
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3035779	-19.85
67 Chlorobenzene - d	3280875	1968525	4593225	2236622	-31.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.30
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07118.D
Date : 12-MAR-2017 18:01
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07118.D

Date : 12-MAR-2017 18:01

Client ID:

Instrument: 10airD.i

Sample Info:

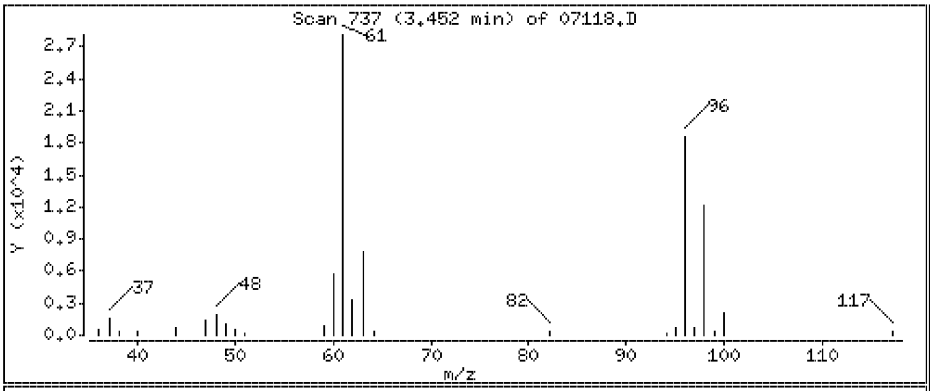
Operator: EMC

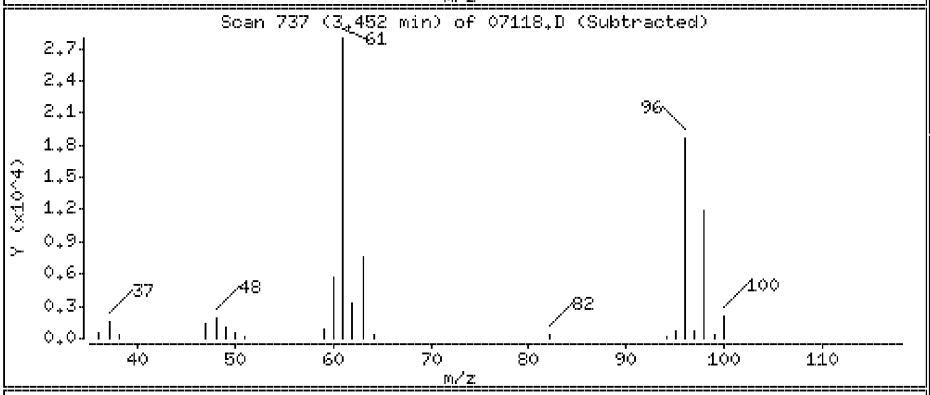
Column phase: J&W DB-5

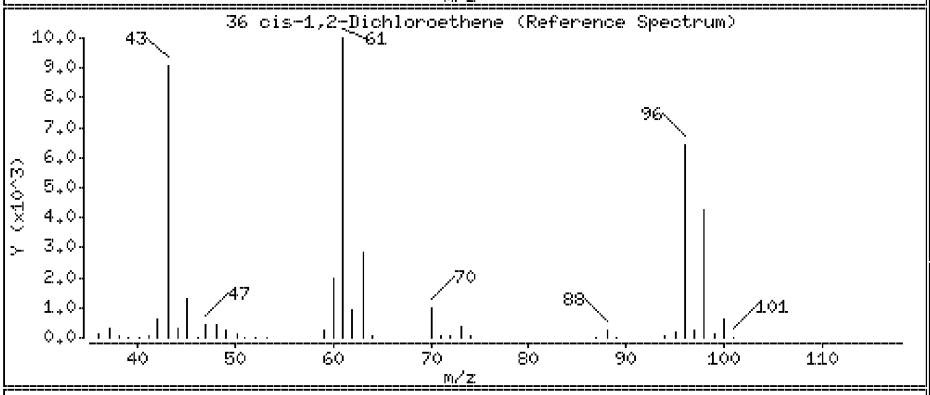
Column diameter: 0.32

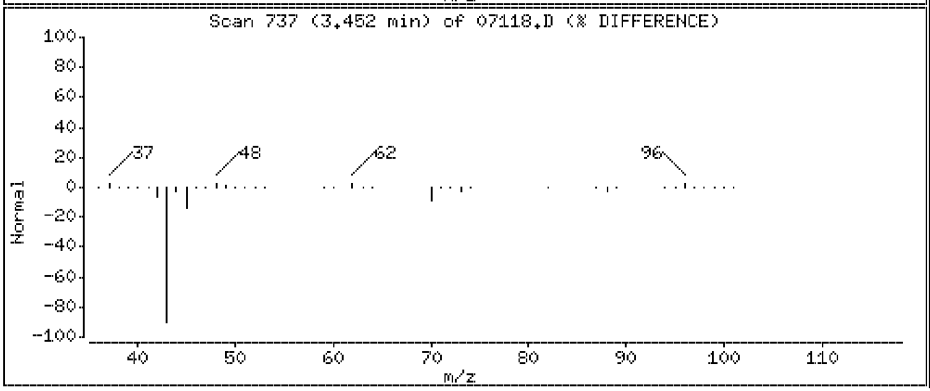
36 cis-1,2-Dichloroethene

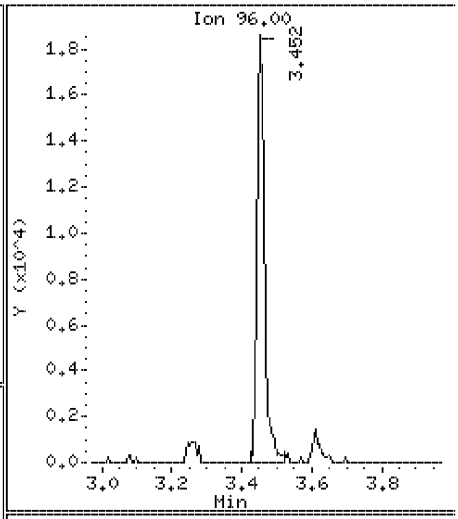
Concentration: 1290 ppbv

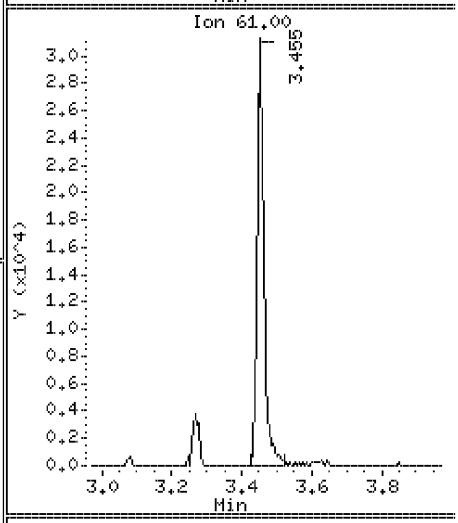


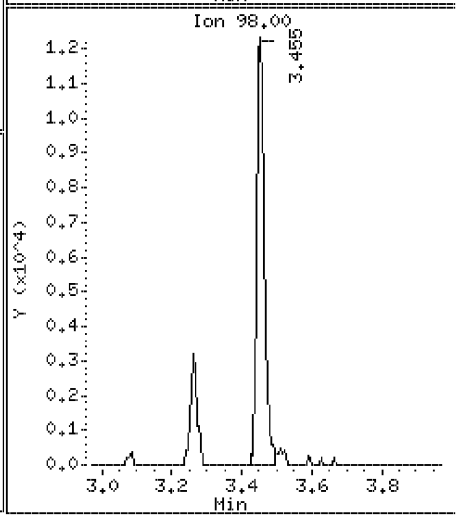












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07118.D

Date : 12-MAR-2017 18:01

Client ID:

Instrument: 10airD.i

Sample Info:

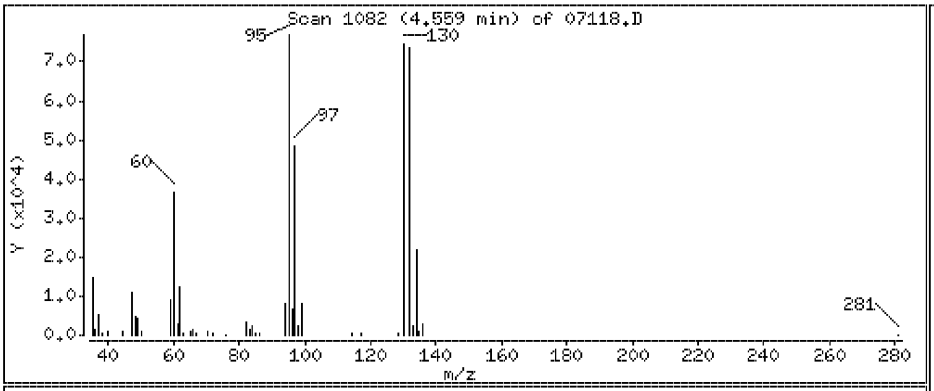
Operator: EMC

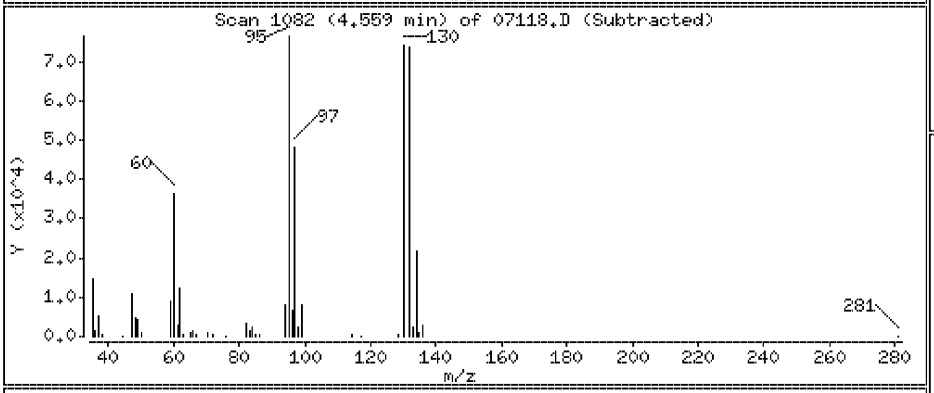
Column phase: J&W DB-5

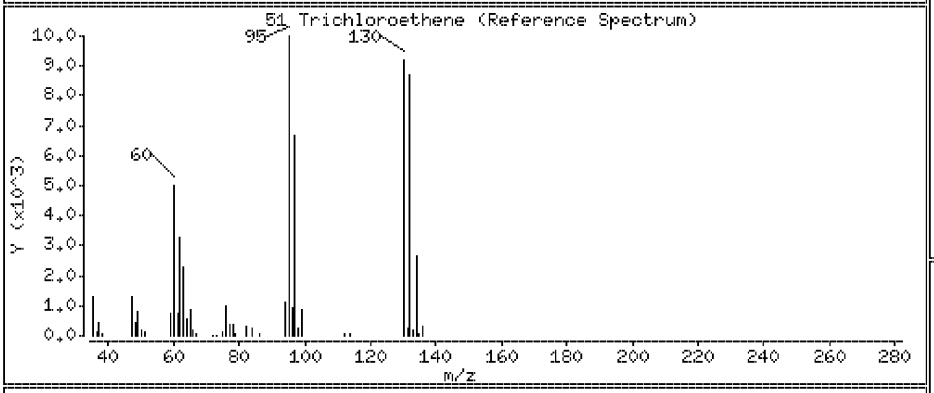
Column diameter: 0.32

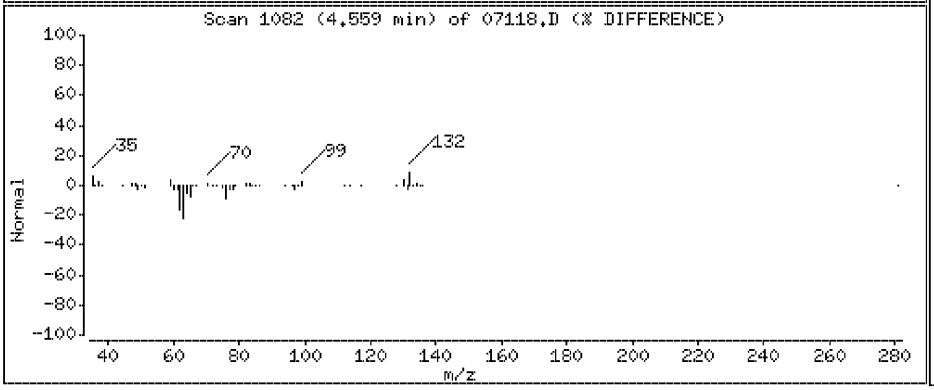
51 Trichloroethene

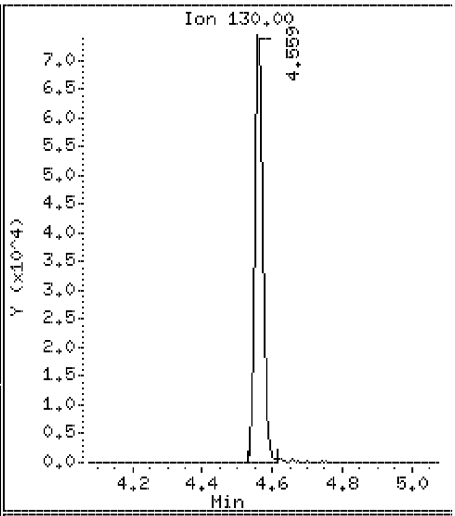
Concentration: 3300 ppbv

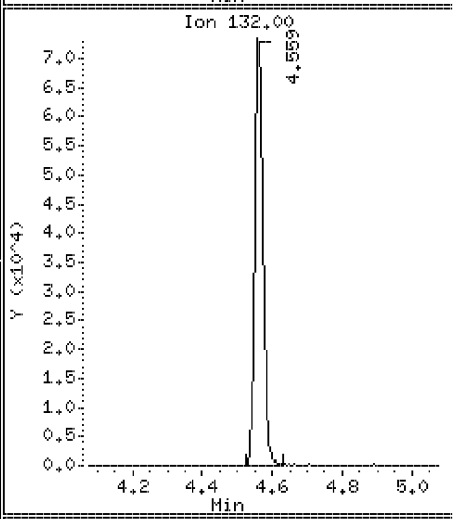


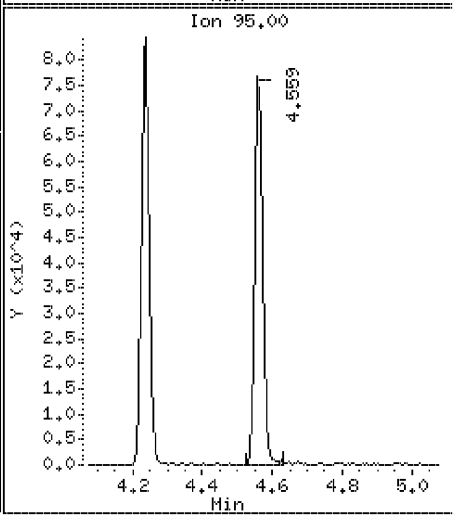












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07118.D

Date : 12-MAR-2017 18:01

Client ID:

Instrument: 10airD.i

Sample Info:

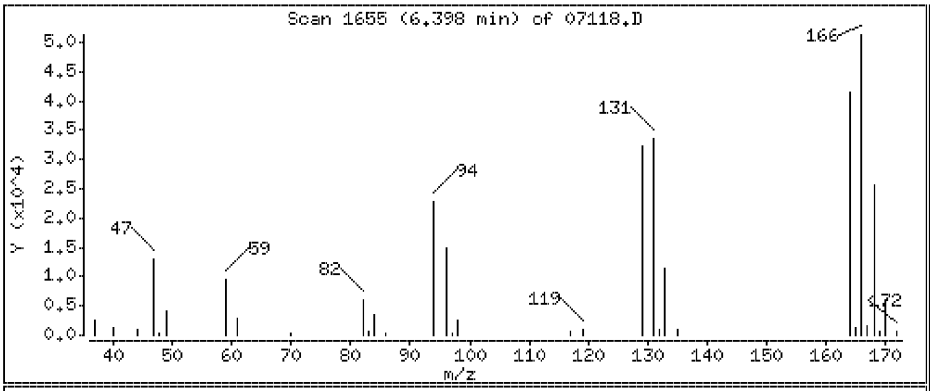
Operator: EMC

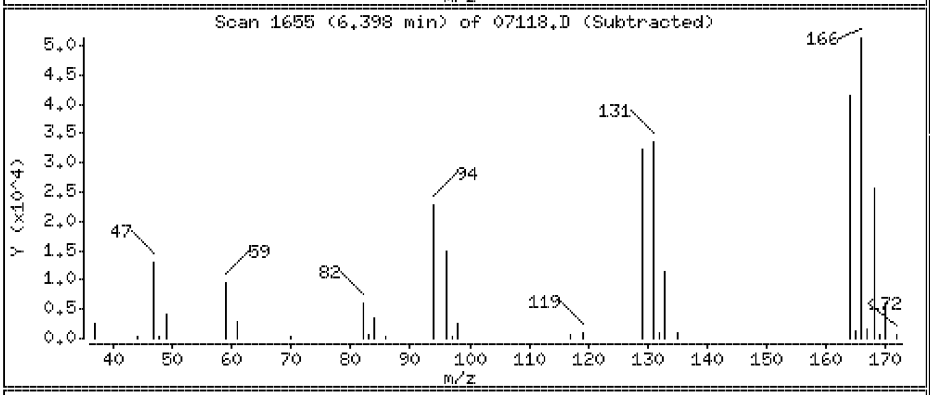
Column phase: J&W DB-5

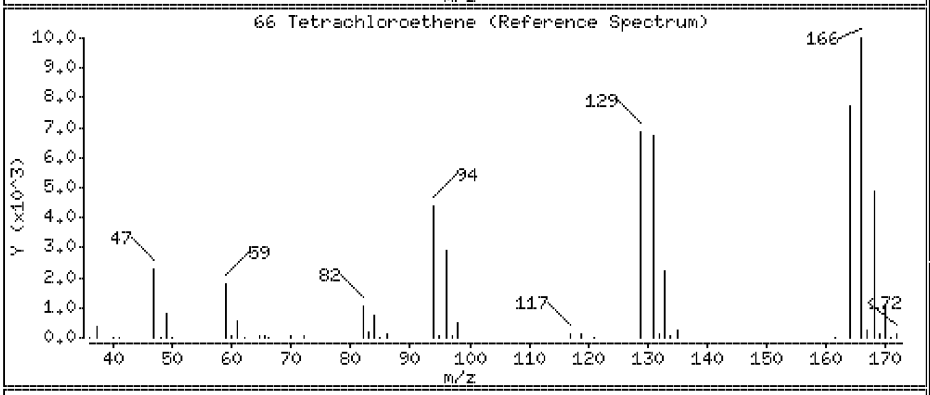
Column diameter: 0.32

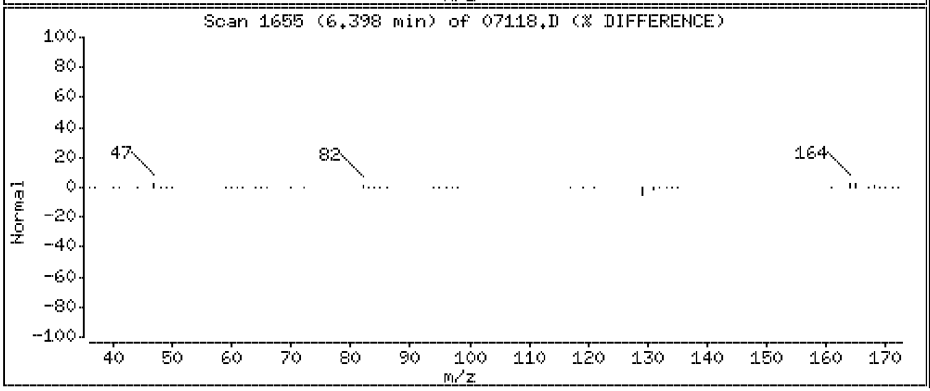
66 Tetrachloroethene

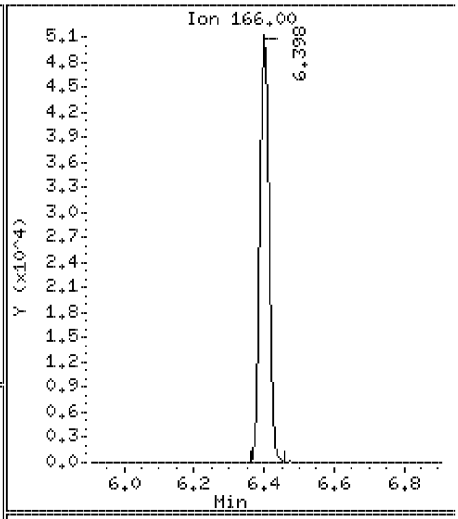
Concentration: 1940 ppbv

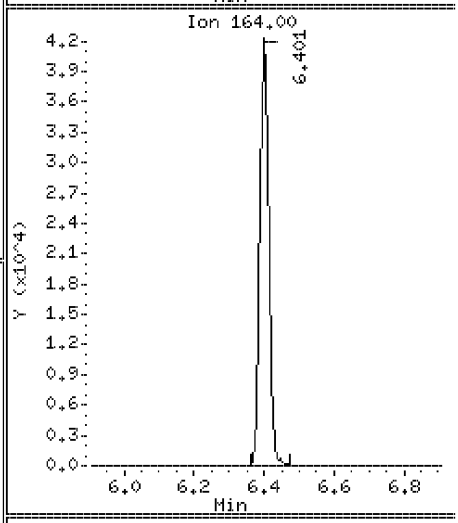


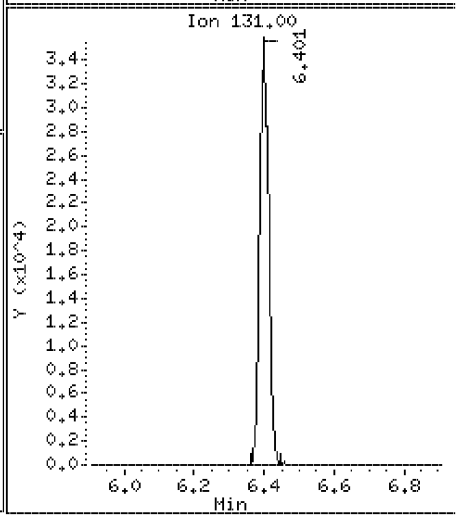












Data File: \\192.168.10.12\chem\10airD.i\031217.b/07118.d
Injection Date: 12-MAR-2017 18:01
Instrument: 10airD.i
Lab Sample ID: 10380372018
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_50_20170226 **Lab ID: 10380372019** Collected: 02/26/17 13:35 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**5.3J**	ug/m3	10.6	1.5	1.75		03/11/17 23:46	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/11/17 23:46	107-05-1	
Benzene	**0.21U**	ug/m3	0.57	0.21	1.75		03/11/17 23:46	71-43-2	
Bromodichloromethane	**1.3J**	ug/m3	2.4	0.34	1.75		03/11/17 23:46	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/11/17 23:46	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/11/17 23:46	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/11/17 23:46	106-99-0	
2-Butanone (MEK)	**1.0J**	ug/m3	5.2	0.40	1.75		03/11/17 23:46	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/11/17 23:46	75-15-0	
Carbon tetrachloride	**1.9**	ug/m3	1.1	0.34	1.75		03/11/17 23:46	56-23-5	CH
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/11/17 23:46	108-90-7	
Chlorodifluoromethane	**14.7**	ug/m3	1.3	0.48	1.75		03/11/17 23:46	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/11/17 23:46	75-00-3	
Chloroform	**19.4**	ug/m3	0.87	0.33	1.75		03/11/17 23:46	67-66-3	
Chloromethane	**0.19U**	ug/m3	0.74	0.19	1.75		03/11/17 23:46	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 23:46	76-15-3	CL
Cyclohexane	**0.55U**	ug/m3	1.2	0.55	1.75		03/11/17 23:46	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/11/17 23:46	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/11/17 23:46	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/11/17 23:46	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/11/17 23:46	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/11/17 23:46	541-73-1	
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/11/17 23:46	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.84	1.75		03/11/17 23:46	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/11/17 23:46	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/11/17 23:46	107-06-2	
1,1-Dichloroethene	**0.74J**	ug/m3	1.4	0.42	1.75		03/11/17 23:46	75-35-4	
cis-1,2-Dichloroethene	**210**	ug/m3	113	34.4	140		03/12/17 17:38	156-59-2	A3
trans-1,2-Dichloroethene	**3.5**	ug/m3	1.4	0.67	1.75		03/11/17 23:46	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/11/17 23:46	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/11/17 23:46	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/11/17 23:46	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/11/17 23:46	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 23:46	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/11/17 23:46	123-91-1	
Ethylbenzene	**0.91J**	ug/m3	1.5	0.74	1.75		03/11/17 23:46	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/11/17 23:46	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/11/17 23:46	87-68-3	
n-Hexane	**1.3**	ug/m3	1.3	0.62	1.75		03/11/17 23:46	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/11/17 23:46	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/11/17 23:46	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/11/17 23:46	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/11/17 23:46	108-87-2	
Methylene Chloride	**6.8**	ug/m3	6.2	0.95	1.75		03/11/17 23:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/11/17 23:46	108-10-1	
Methyl-tert-butyl ether	**1.4J**	ug/m3	6.4	0.53	1.75		03/11/17 23:46	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.d
Report Date: 13-Mar-2017 11:02

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07027.d
Lab Smp Id: 10380372019
Inj Date : 11-MAR-2017 23:46
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 27
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.123	2.155	(0.500)	18334	2.33686	4.09(QH)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.181	(0.506)	23613	0.33050	0.578	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	2.515	2.534	(0.592)	11548	2.31458	4.05	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	2.537	2.572	(0.597)	9078	0.29158	0.510(QH)	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	2.605	2.630	(0.613)	21605	0.28906	0.506	
17	Acrolein	56	2.621	2.637	(0.617)	1890	0.62736	1.10	
18	Acetone	43	2.650	2.666	(0.624)	80629	1.25432	2.20	
19	Isopropyl Alcohol	45	2.682	2.704	(0.631)	43112	1.70301	2.98(QM)	
20	1,1-Dichloroethene	61	2.788	2.820	(0.656)	4701	0.10561	0.185	
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	2.845	2.858	(0.670)	3812	0.11068	0.194(H)	
22	Freon 113	101	2.820	2.848	(0.664)	78508	1.33976	2.34	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.d
Report Date: 13-Mar-2017 11:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	2.865	2.897	(0.674)	47473	1.10194	1.93	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	3.080	3.115	(0.725)	10490	0.49558	0.867(H)	
	29 Methyl Tert Butyl Ether	73	3.134	3.140	(0.738)	11750	0.21127	0.370	
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.291	(0.770)	1529078	8.86303	8.86	
	33 Methyl Ethyl Ketone	72	3.352	3.362	(0.789)	2009	0.19444	0.340(Q)	
	34 n-Hexane	57	3.346	3.372	(0.788)	7922	0.21206	0.371(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	3.458	3.490	(0.814)	826595	34.4756	60.3(A)	
	37 Ethyl Acetate	43	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	3.554	3.590	(0.837)	135025	2.23000	3.90	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	3.898	3.920	(0.918)	12544	0.20595	0.360	
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	45 Carbon tetrachloride	117	4.113	4.138	(0.968)	9797	0.17089	0.299	
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.248	4.267	(1.000)	3249733	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	4.575	4.591	(1.077)	4839899	123.294	216(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 Bromodichloromethane	83	4.665	4.684	(1.098)	7157	0.10588	0.185(H)	
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.566	5.579	(1.310)	3042230	9.34261	9.34	
	60 Toluene	91	5.640	5.650	(1.328)	159396	1.65919	2.90	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	6.067	6.064	(0.863)	6475	0.11010	0.193(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.414	6.417	(0.912)	4790432	91.4337	160(A)	
*	67 Chlorobenzene - d5	117	7.033	7.042	(1.000)	2369908	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	7.322	7.325	(1.041)	12239	0.11770	0.206	
	70 m&p-Xylene	91	7.463	7.469	(1.061)	34263	0.29177	0.511	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	Compound Not Detected.						(D)
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	7.931	7.938	(1.128)	12500	0.14581	0.255	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.d
Report Date: 13-Mar-2017 11:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.821	9.834	(1.396)	20936	0.14575	0.255	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.203	(1.449)	1204133	8.29286	8.29	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.969	12.957	(1.844)	10553	0.42494	0.744	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.d
Report Date: 13-Mar-2017 11:02

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07027.d
Lab Smp Id: 10380372019
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 10:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

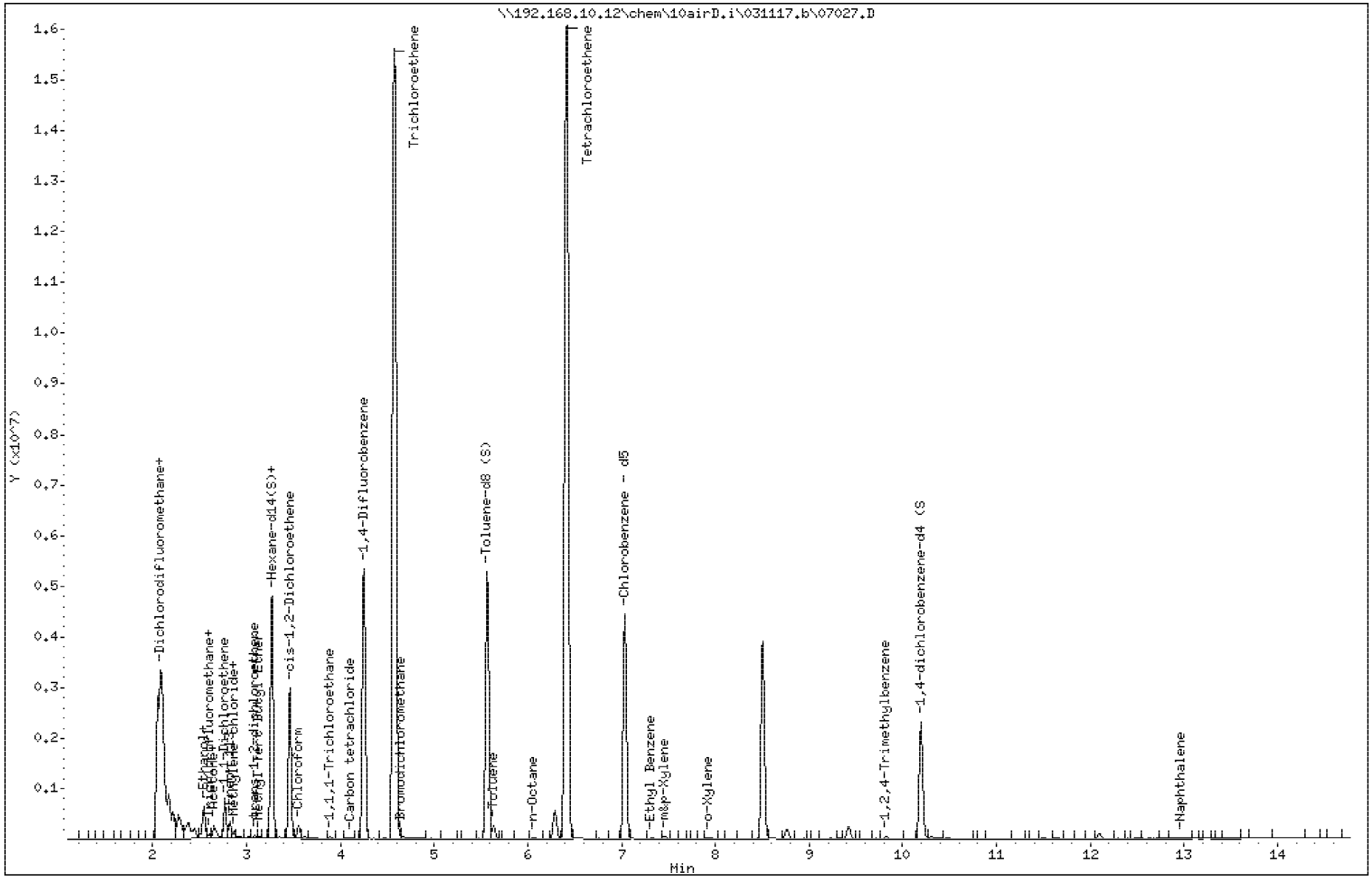
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3249733	-14.20
67 Chlorobenzene - d	3280875	1968525	4593225	2369908	-27.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.27	3.94	4.60	4.25	-0.45
67 Chlorobenzene - d	7.04	6.71	7.37	7.03	-0.14

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D
Date : 11-MAR-2017 23:46
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

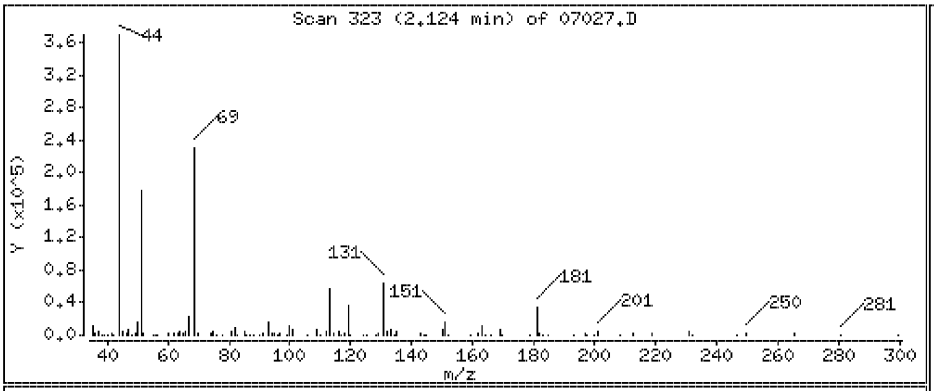
Operator: DR1

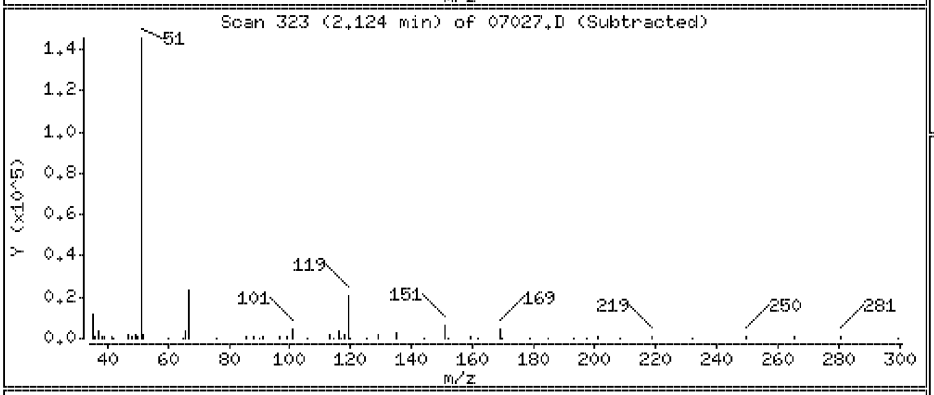
Column phase: J&W DB-5

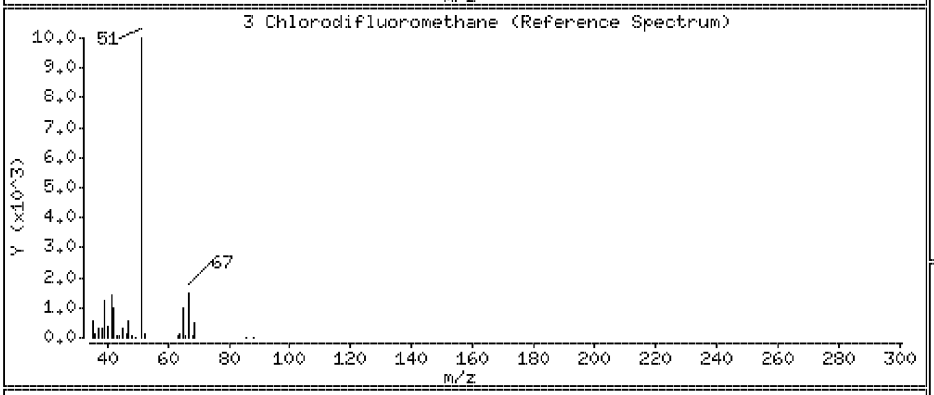
Column diameter: 0.32

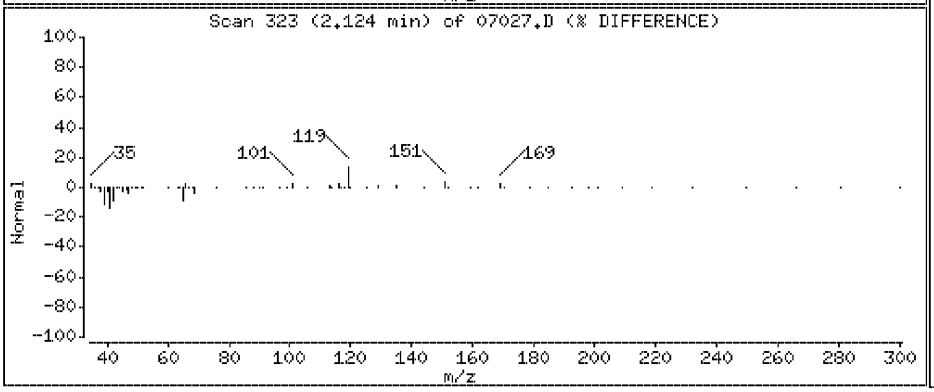
3 Chlorodifluoromethane

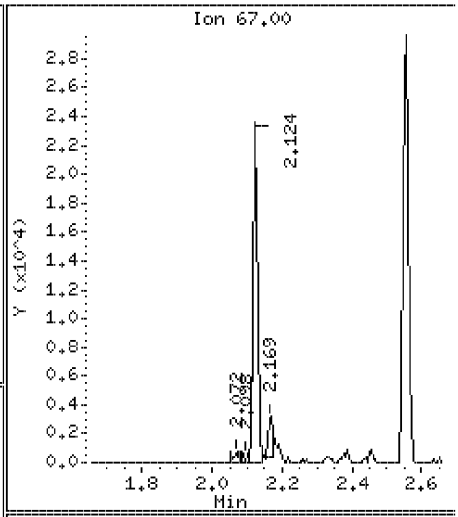
Concentration: 4.09 ppbv

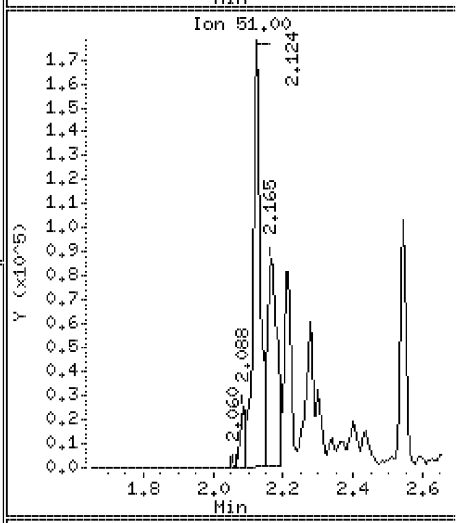


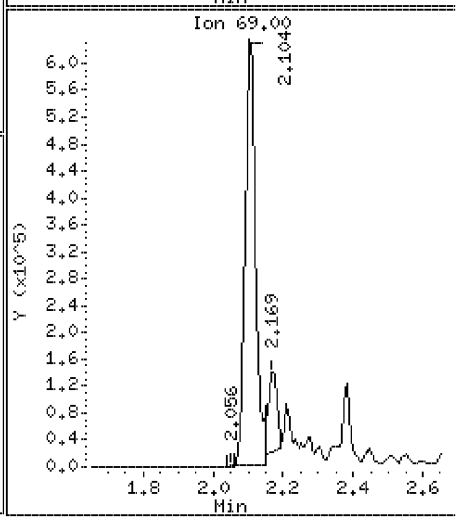












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

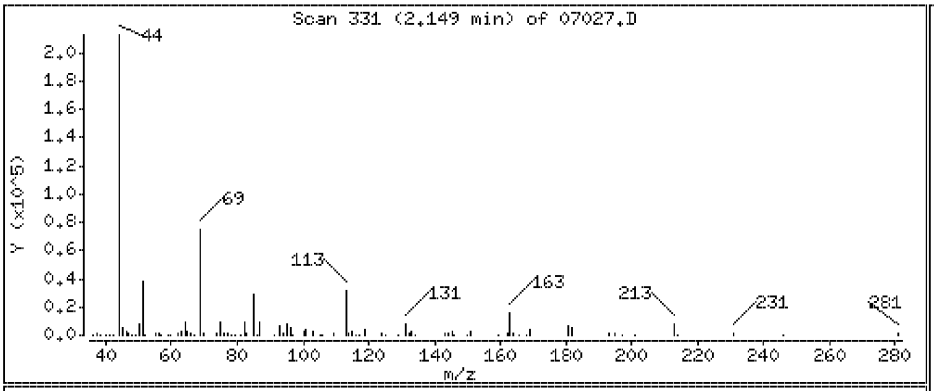
Operator: DR1

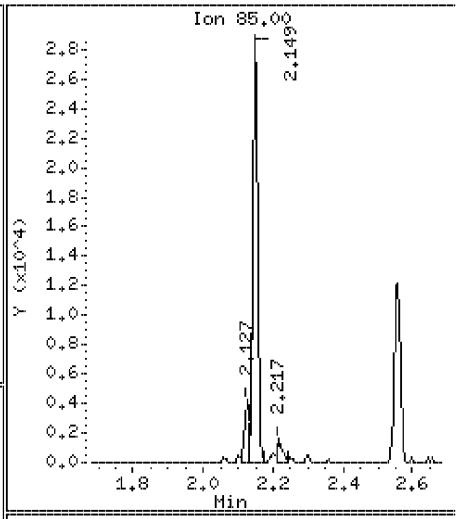
Column phase: J&W DB-5

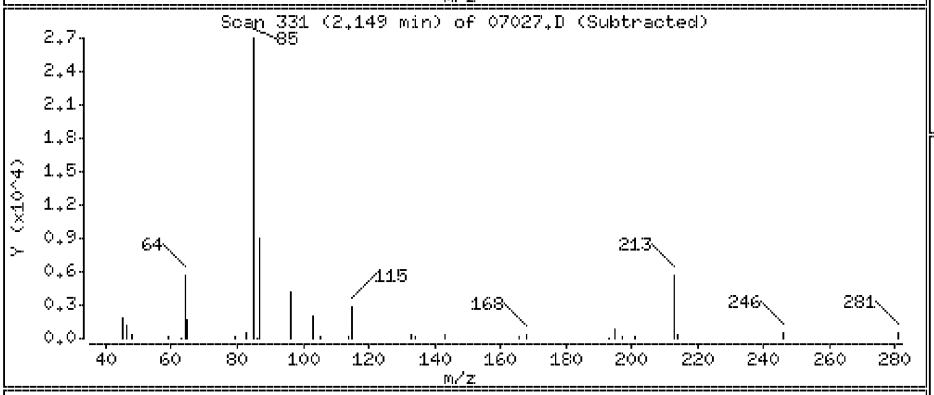
Column diameter: 0.32

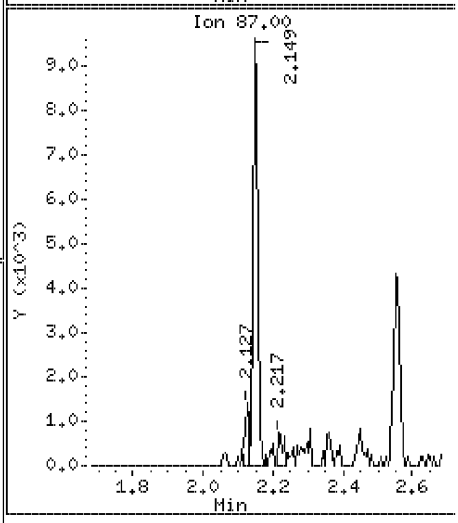
5 Dichlorodifluoromethane

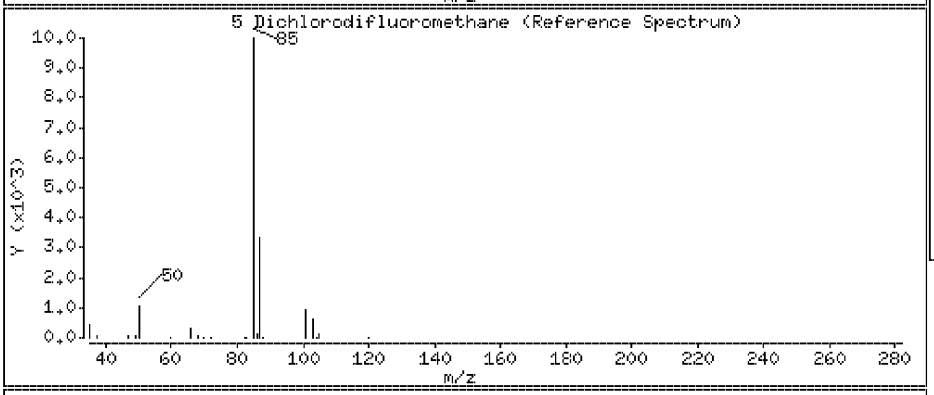
Concentration: 0.578 ppbv

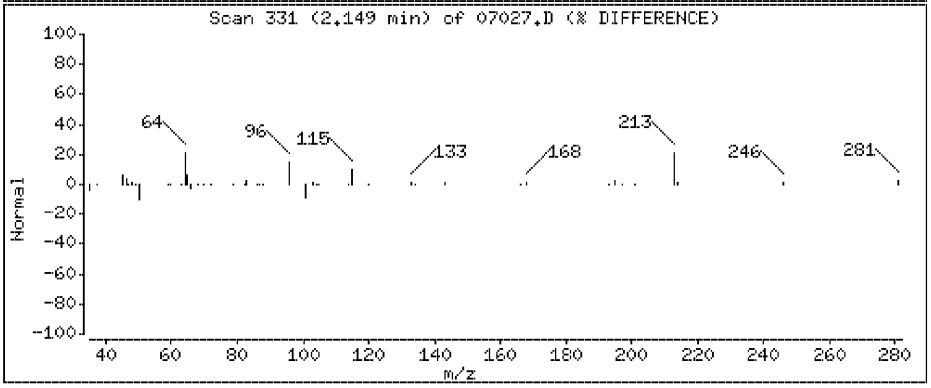












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

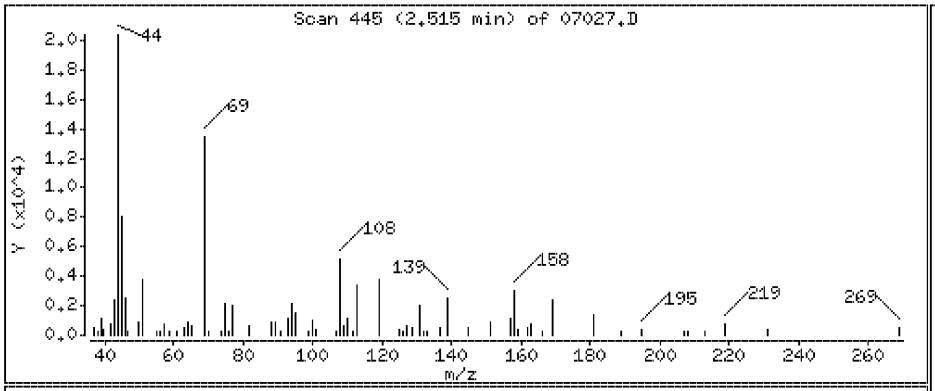
Operator: DR1

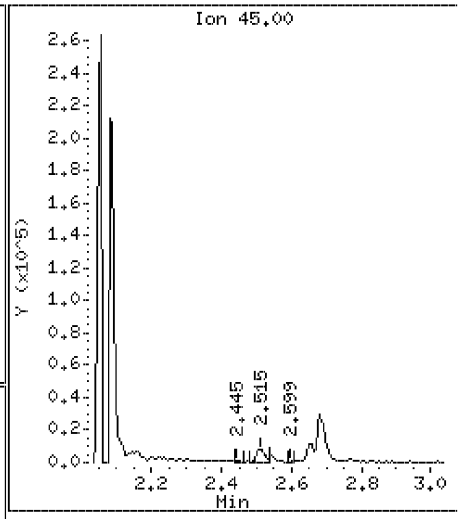
Column phase: J&W DB-5

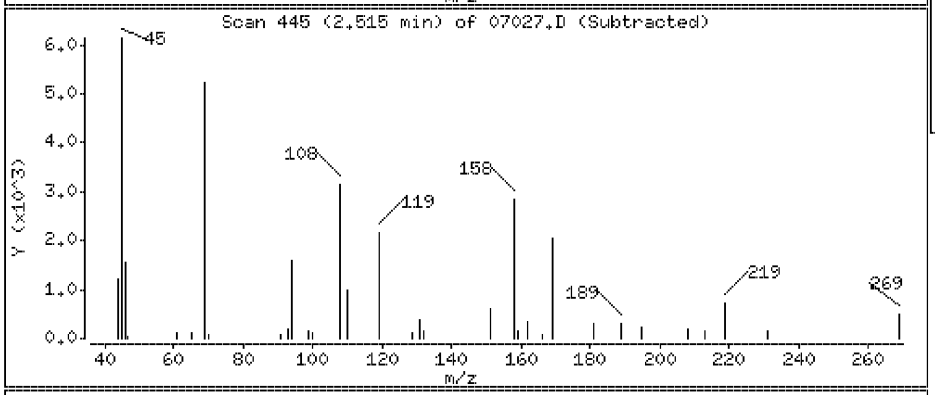
Column diameter: 0.32

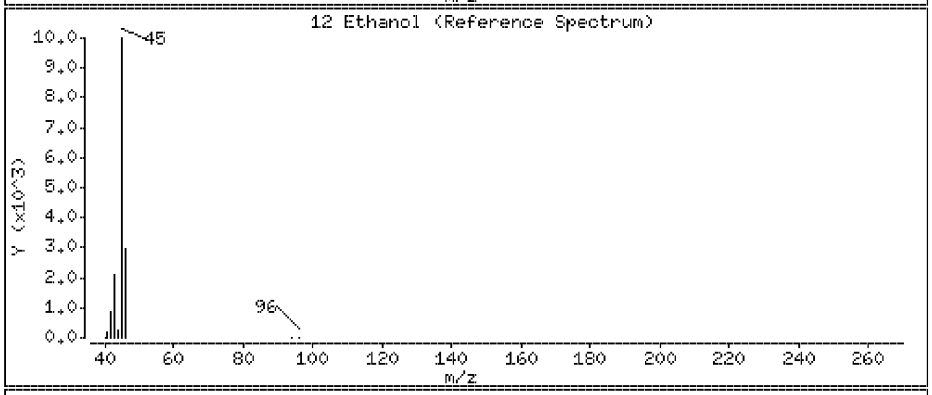
12 Ethanol

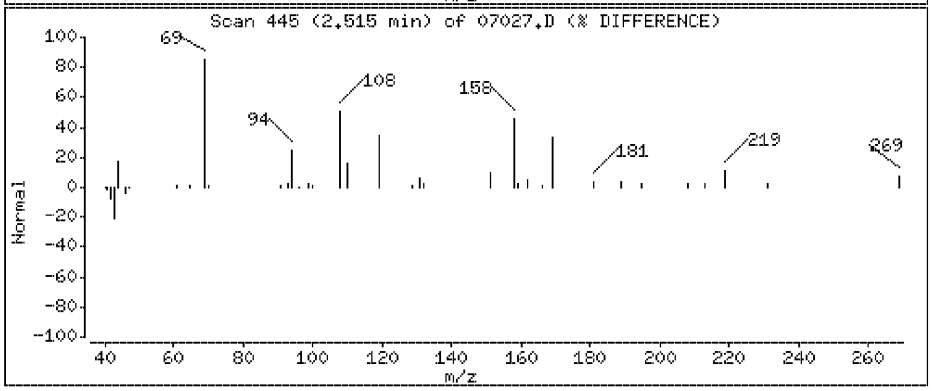
Concentration: 4.05 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

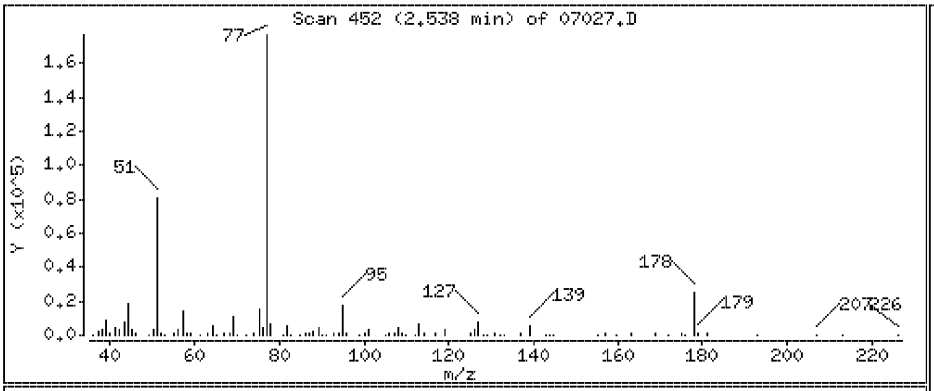
Operator: DR1

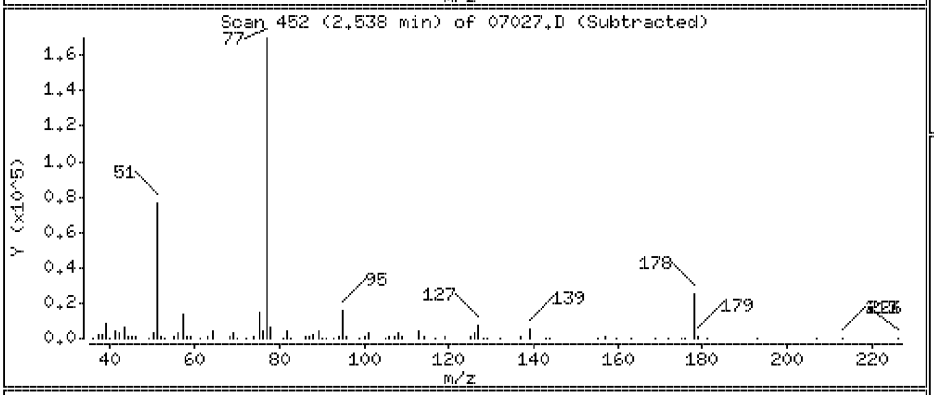
Column phase: J&W DB-5

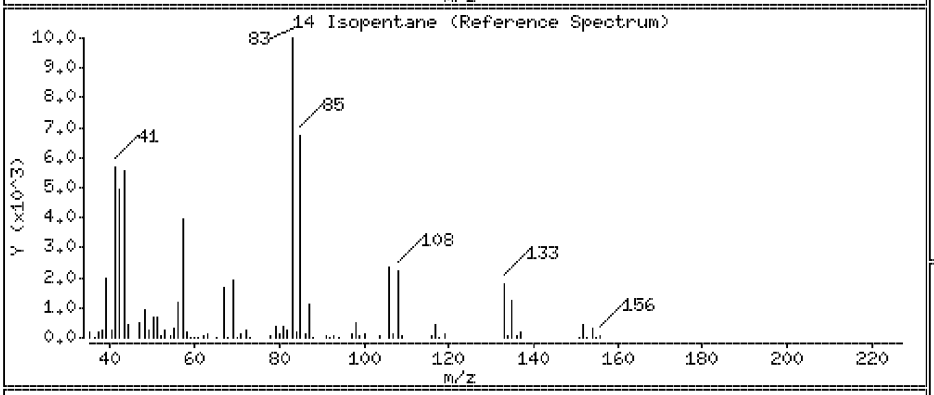
Column diameter: 0.32

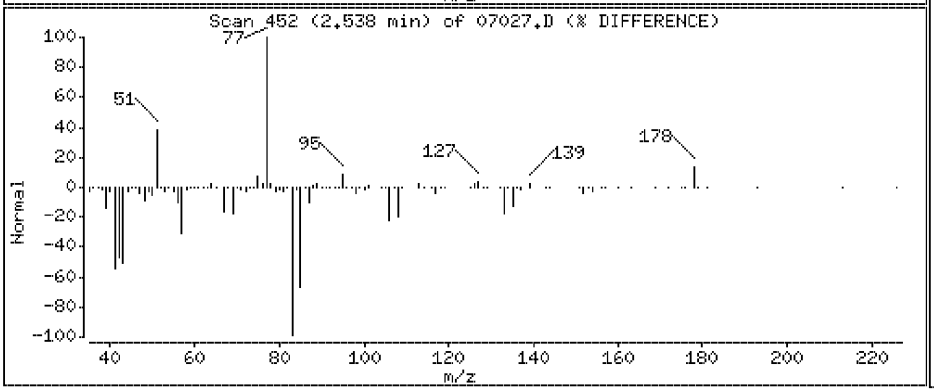
14 Isopentane

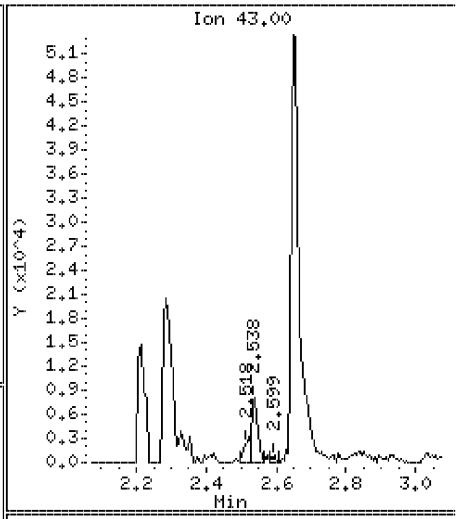
Concentration: 0.510 ppbv

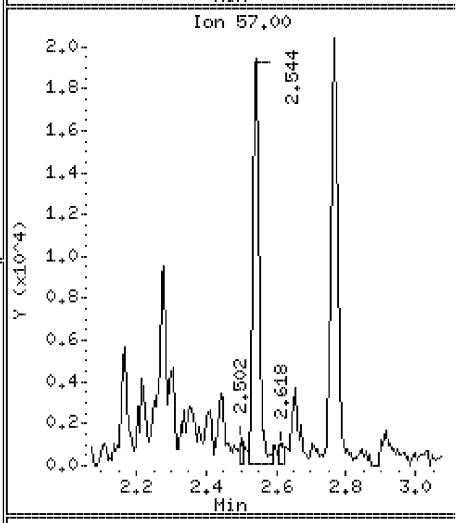


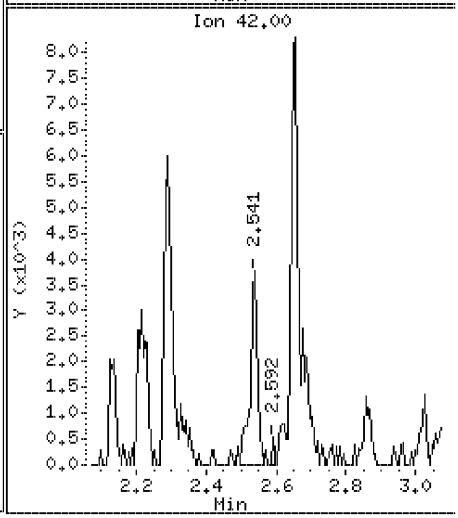












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

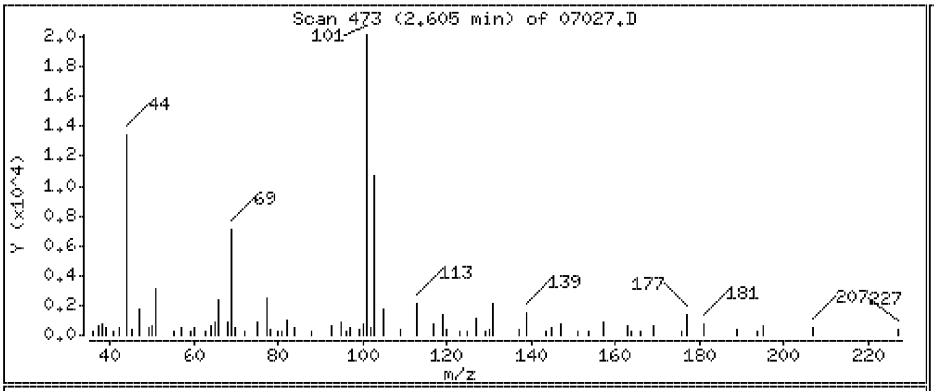
Operator: DR1

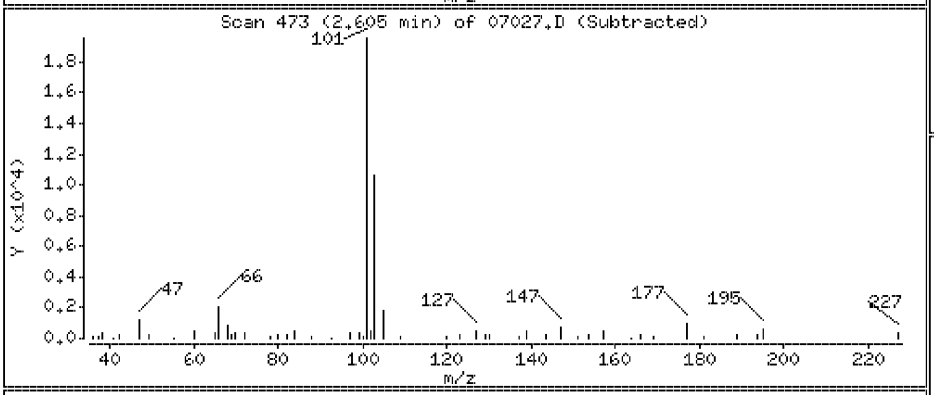
Column phase: J&W DB-5

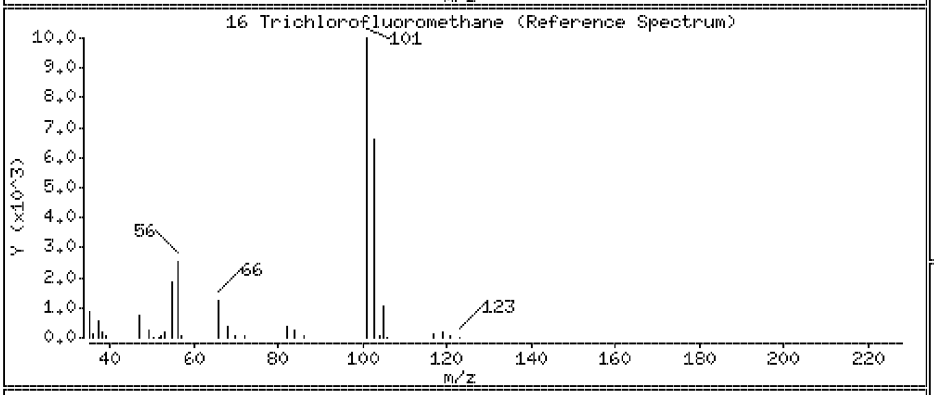
Column diameter: 0.32

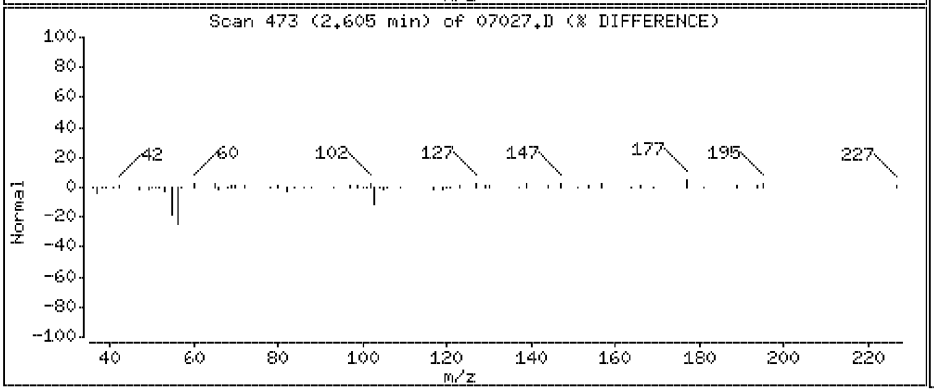
16 Trichlorofluoromethane

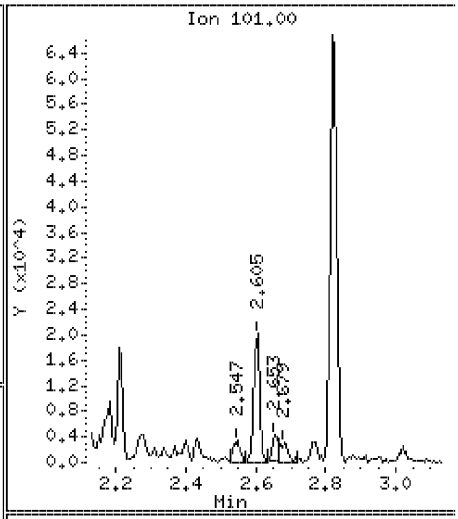
Concentration: 0.506 ppbv

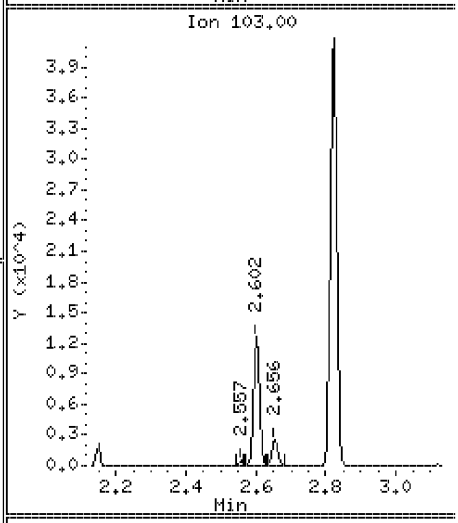


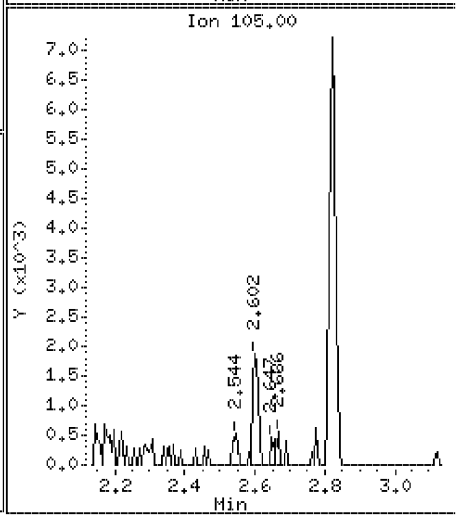












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

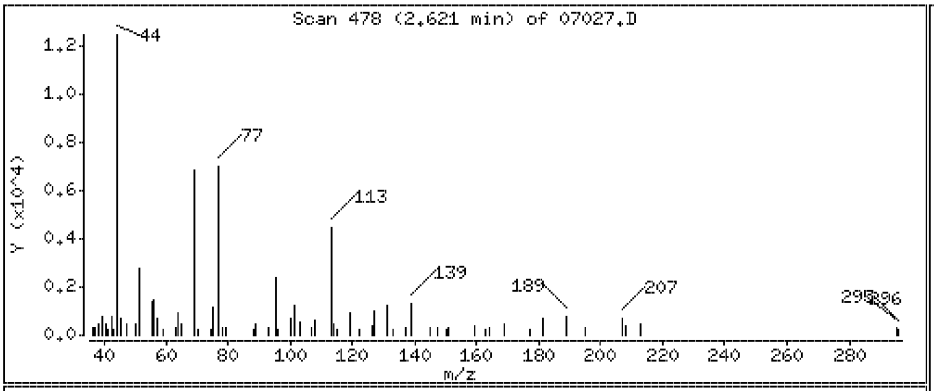
Operator: DR1

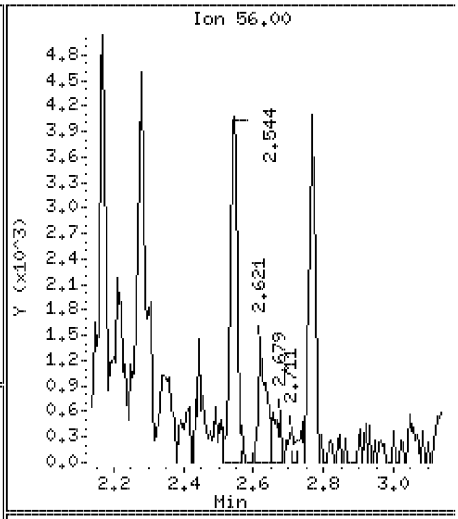
Column phase: J&W DB-5

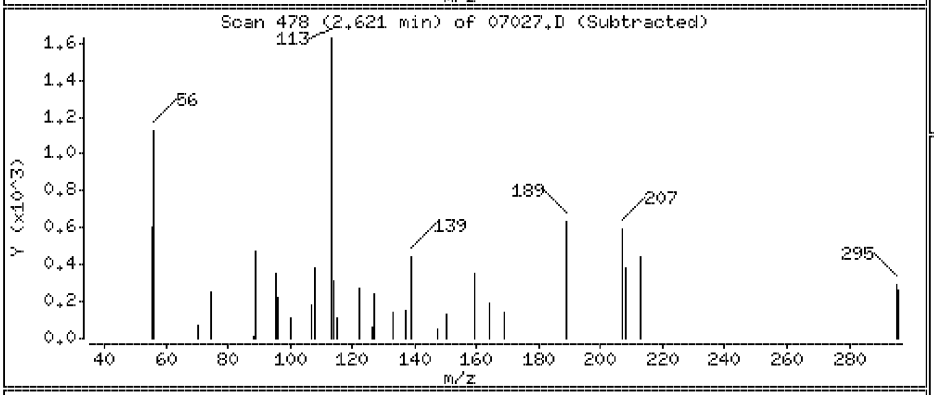
Column diameter: 0.32

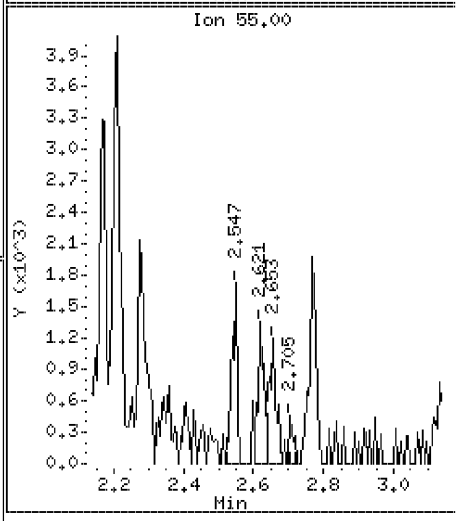
17 Acrolein

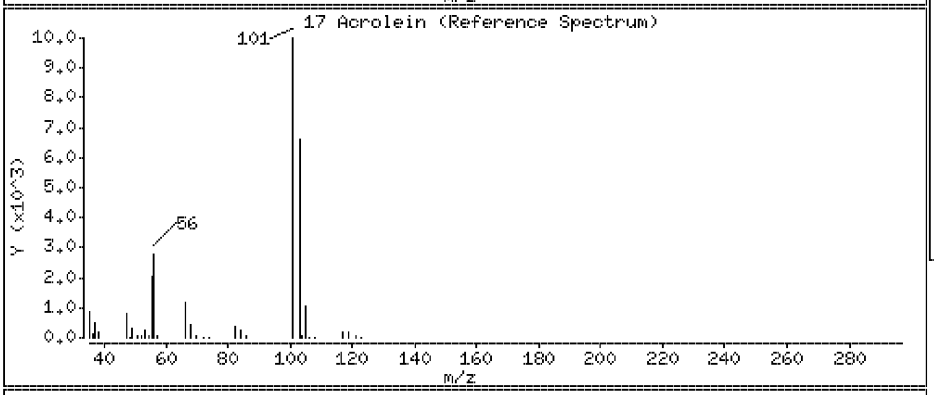
Concentration: 1.10 ppbv

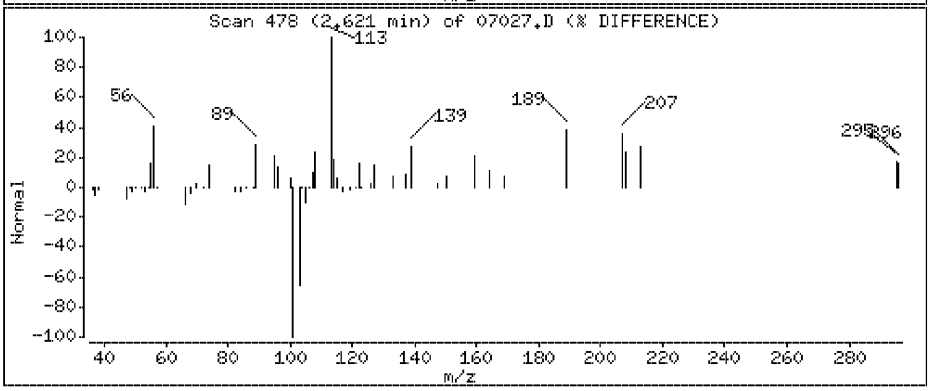












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

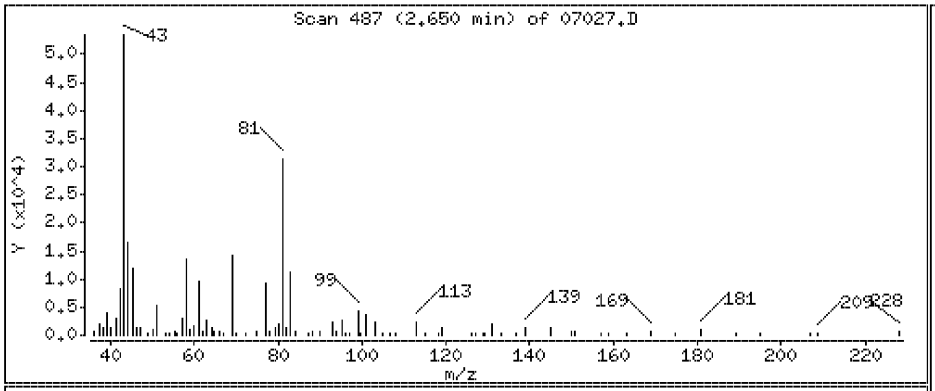
Operator: DR1

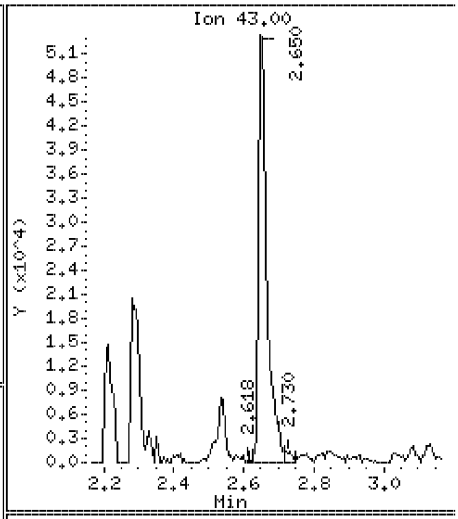
Column phase: J&W DB-5

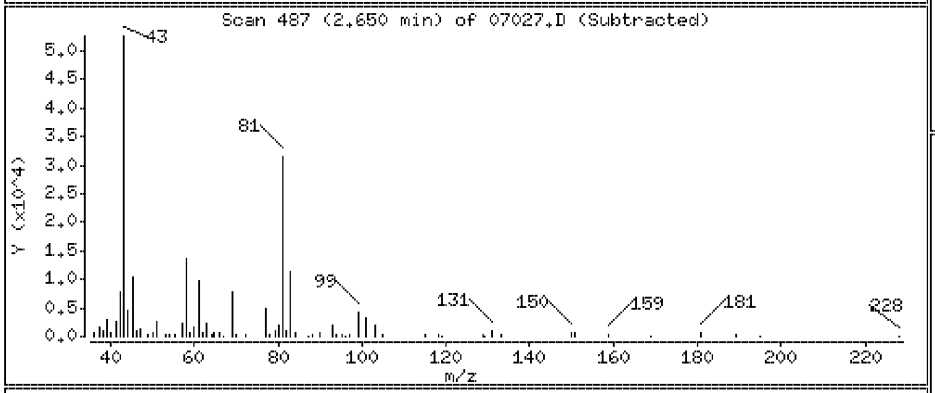
Column diameter: 0.32

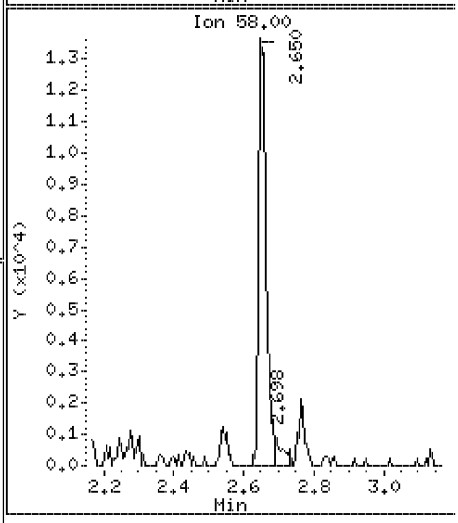
18 Acetone

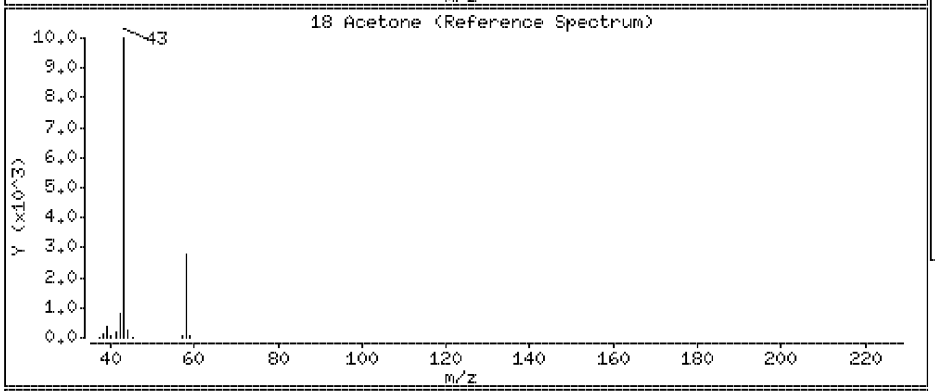
Concentration: 2.20 ppbv

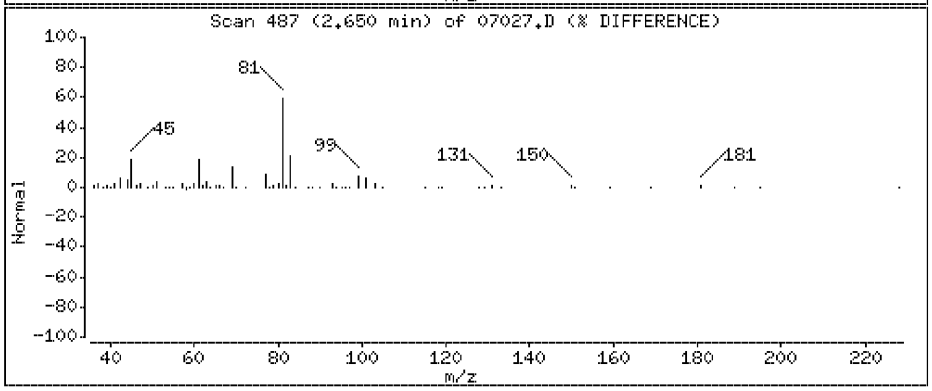












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

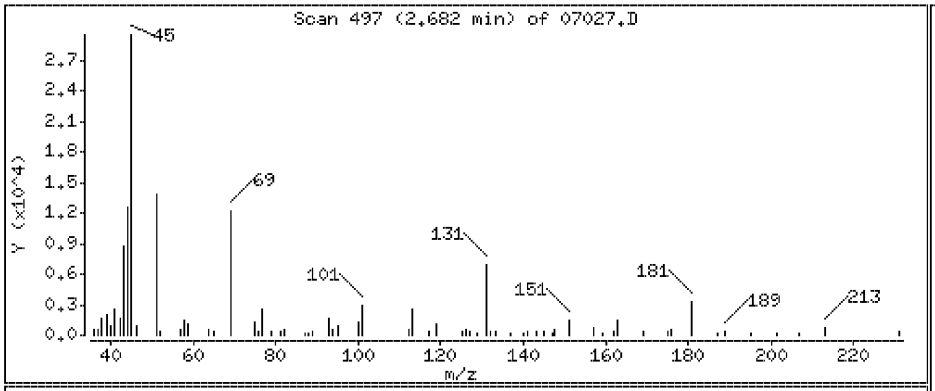
Operator: DR1

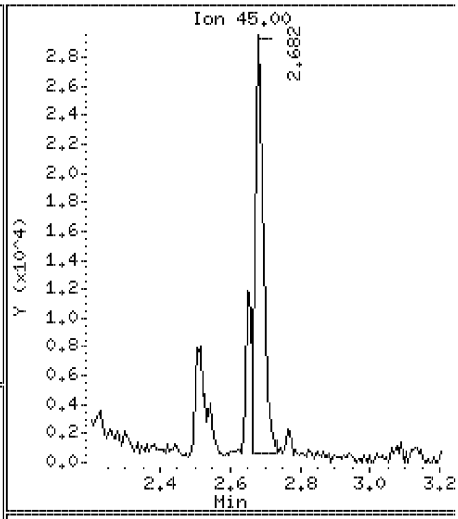
Column phase: J&W DB-5

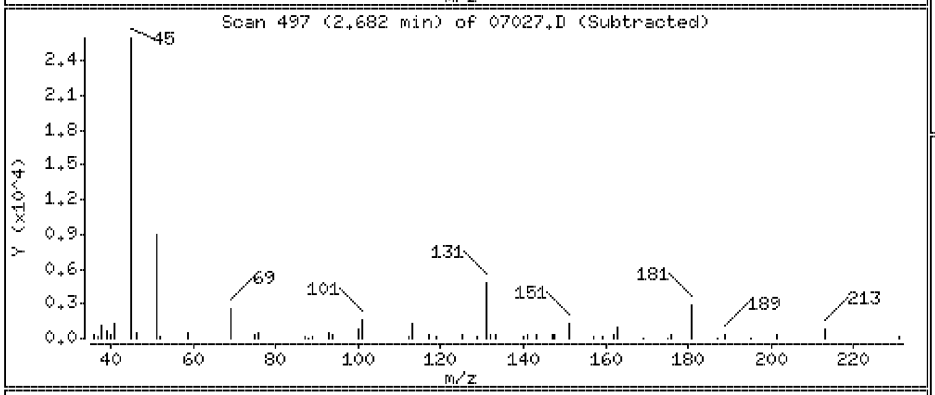
Column diameter: 0.32

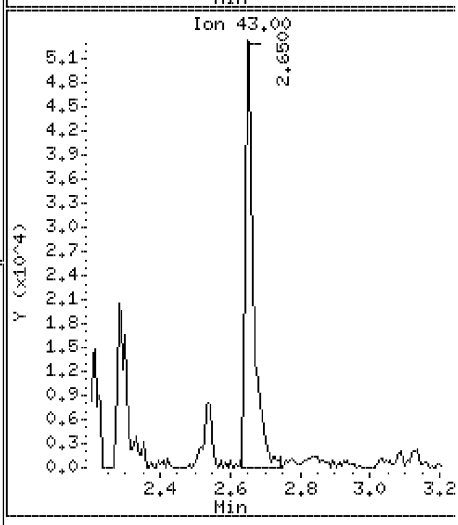
19 Isopropyl Alcohol

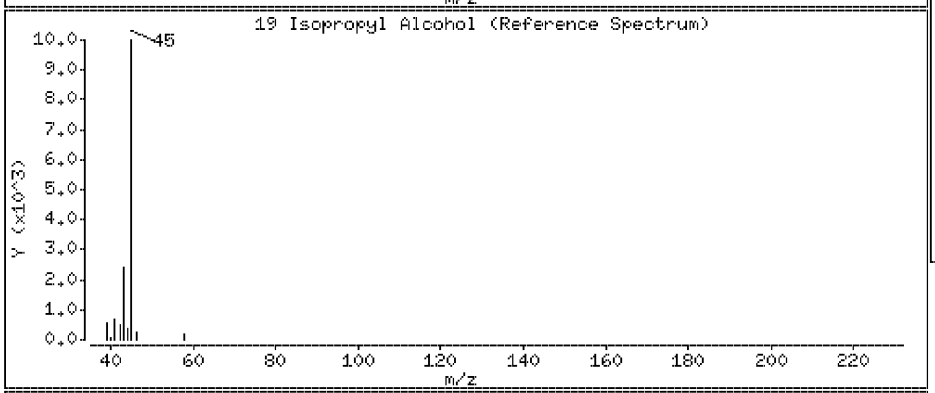
Concentration: 2.98 ppbv

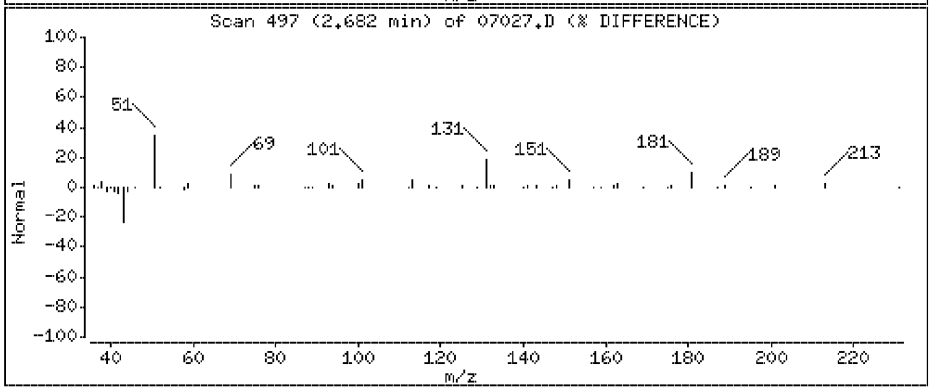












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

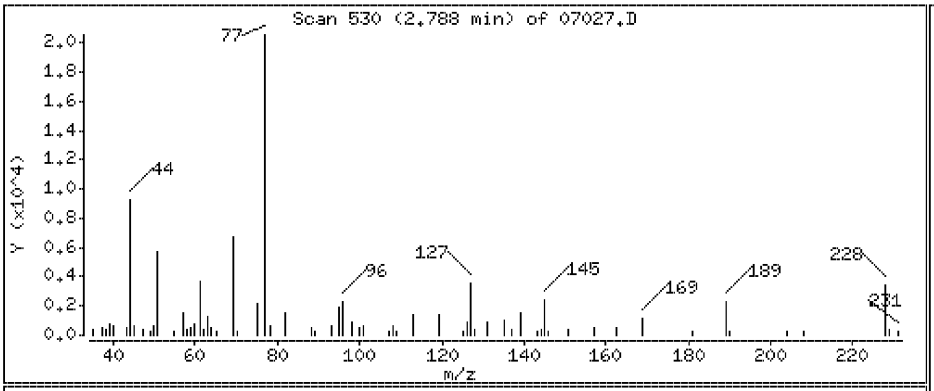
Operator: DR1

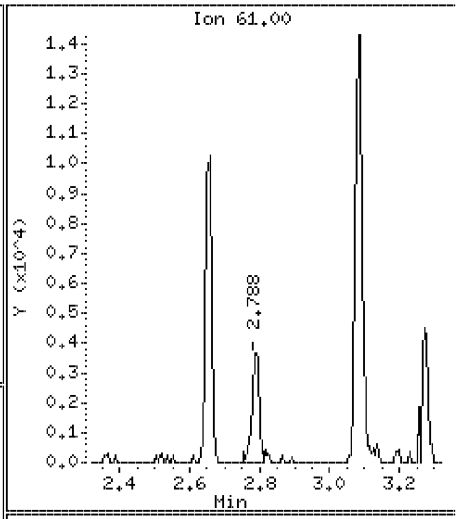
Column phase: J&W DB-5

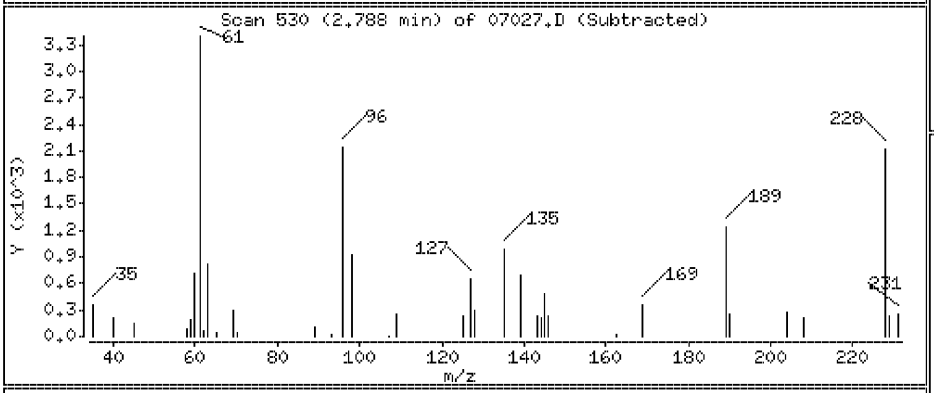
Column diameter: 0.32

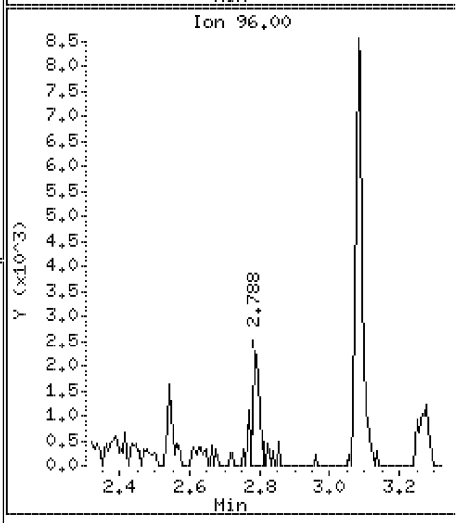
20 1,1-Dichloroethene

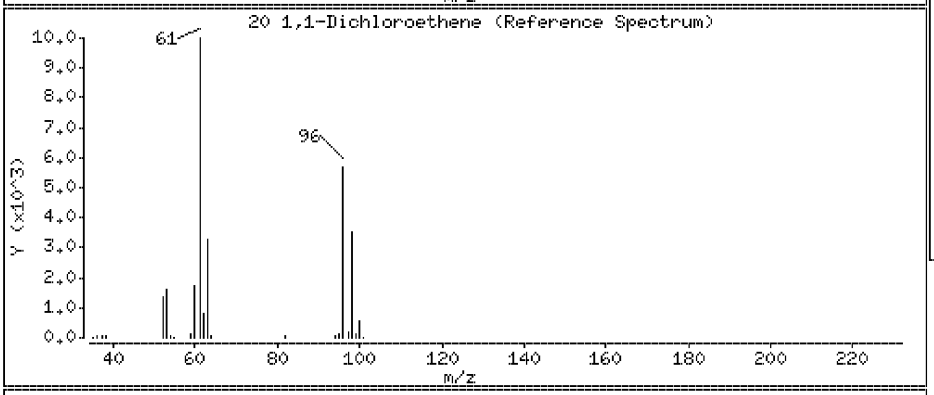
Concentration: 0.185 ppbv

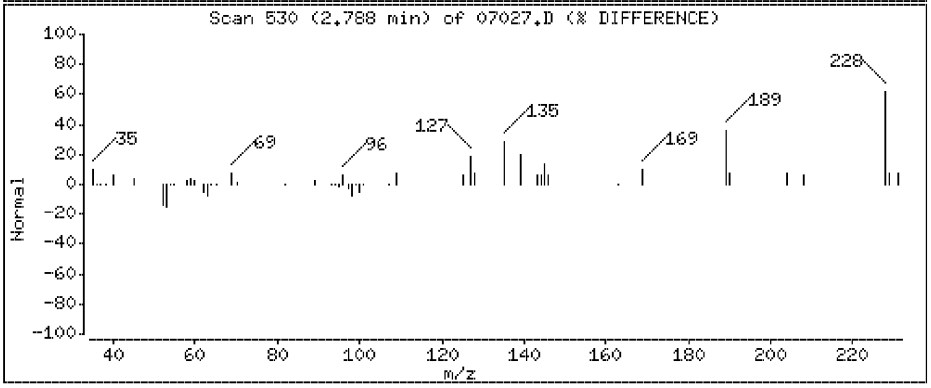












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

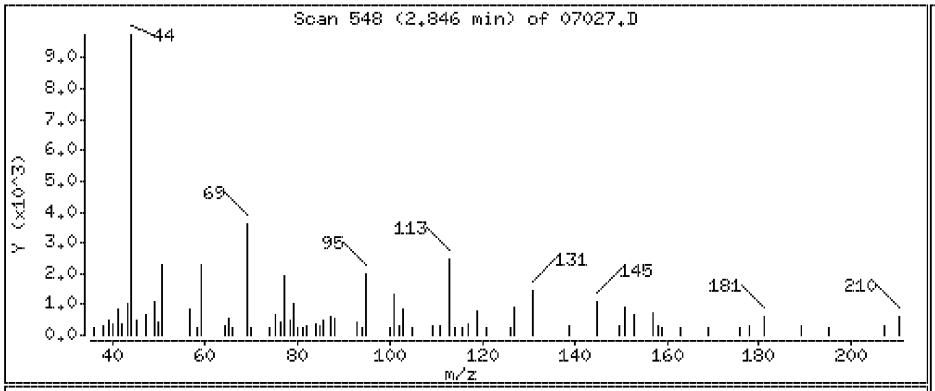
Operator: DR1

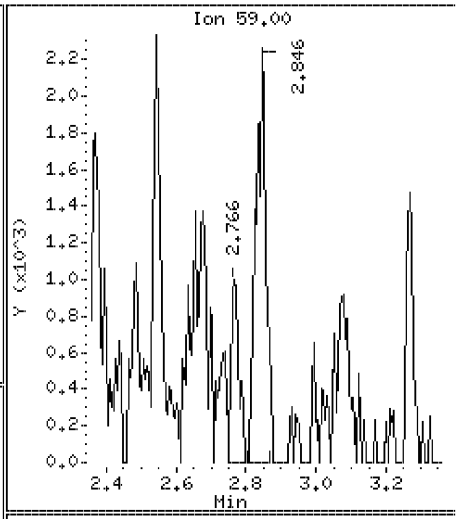
Column phase: J&W DB-5

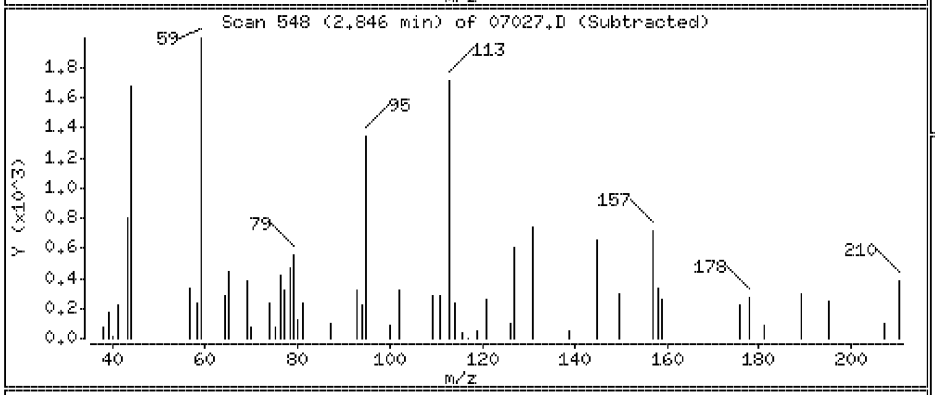
Column diameter: 0.32

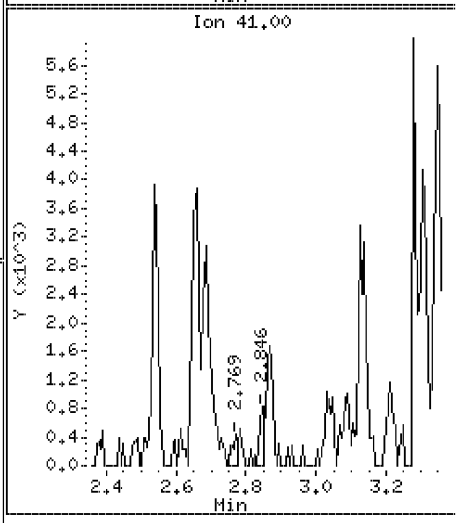
24 Tert Butyl Alcohol (TBA)

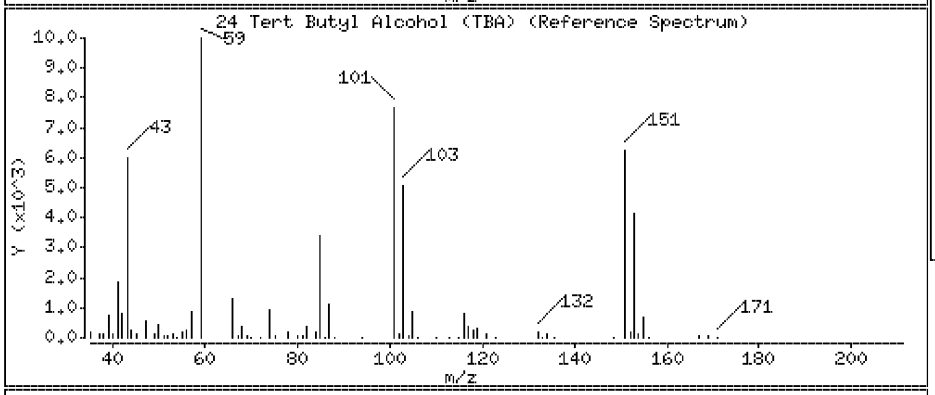
Concentration: 0.194 ppbv

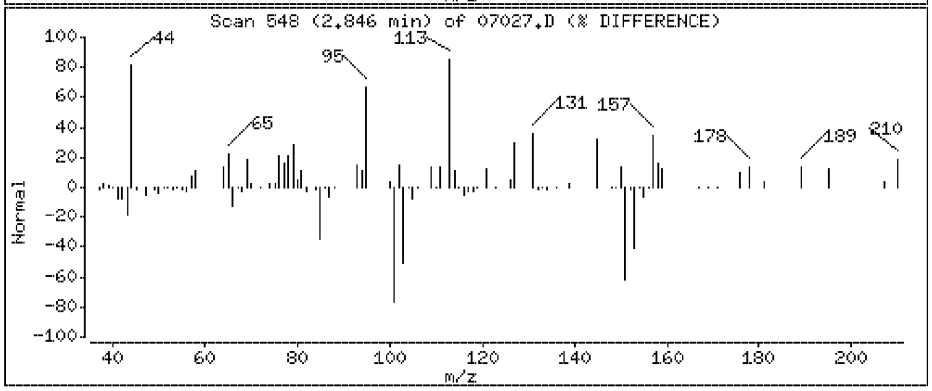












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

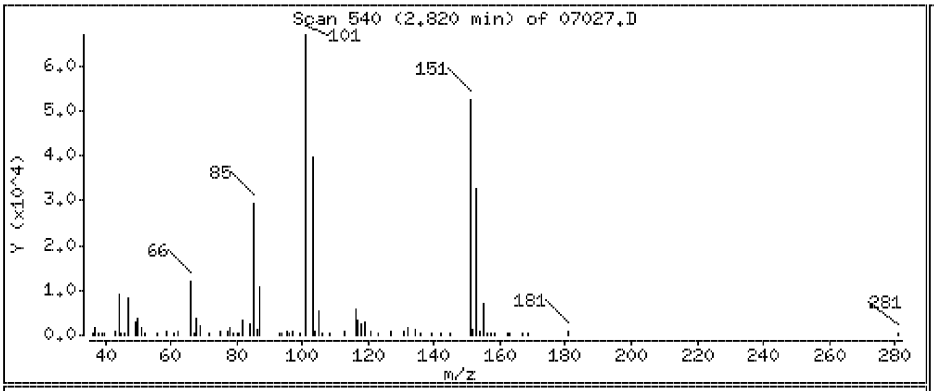
Operator: DR1

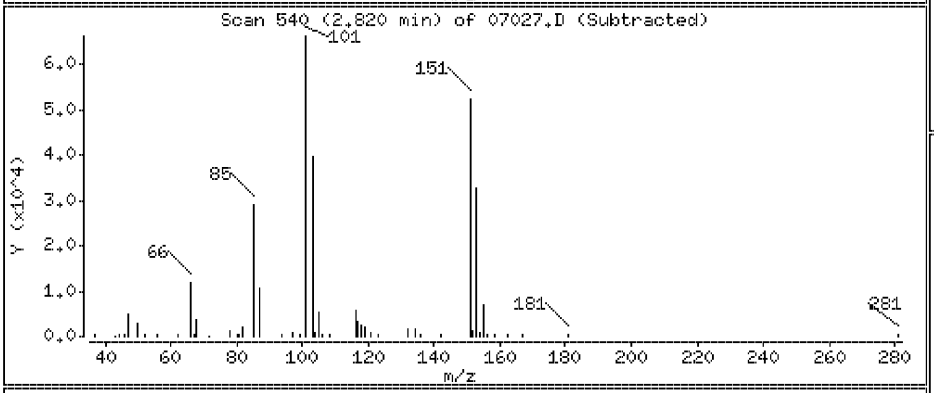
Column phase: J&W DB-5

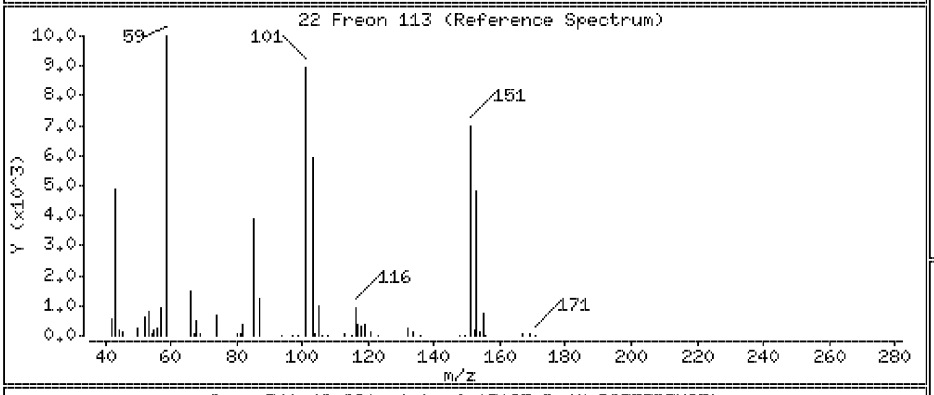
Column diameter: 0.32

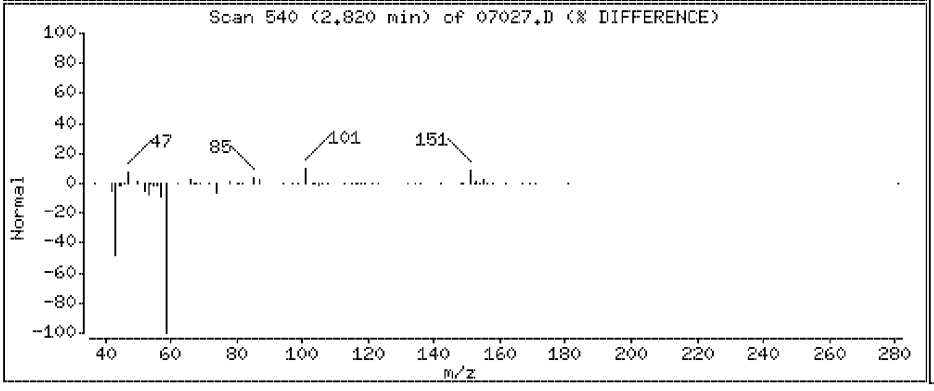
22 Freon 113

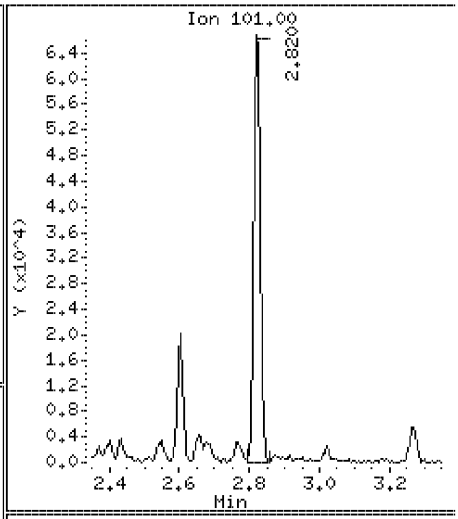
Concentration: 2.34 ppbv

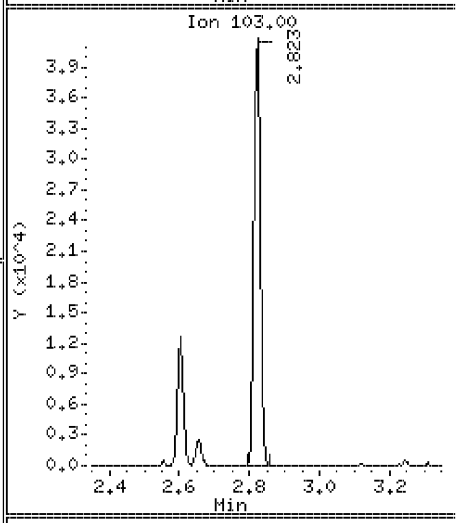


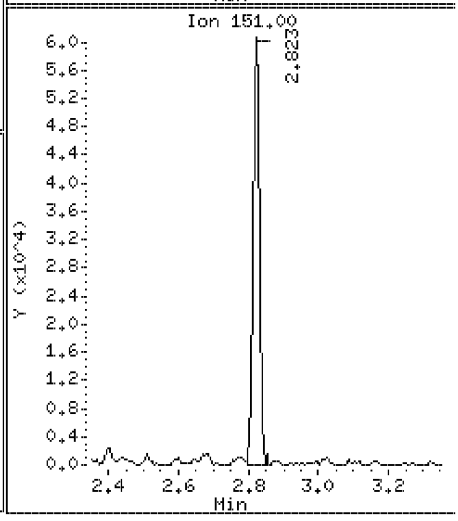












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

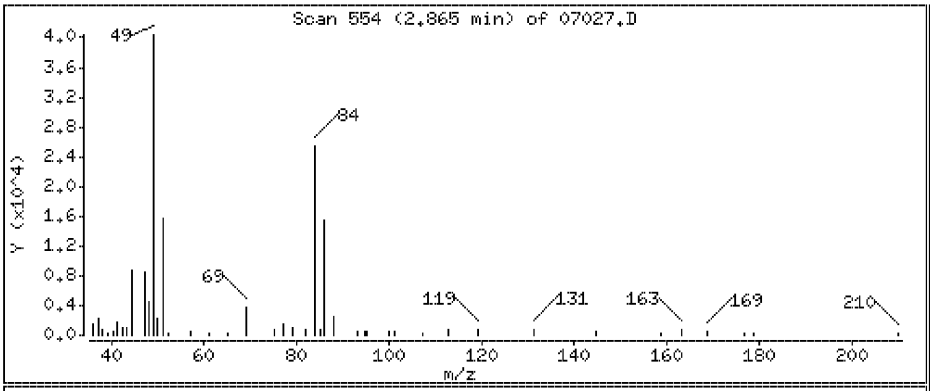
Operator: DR1

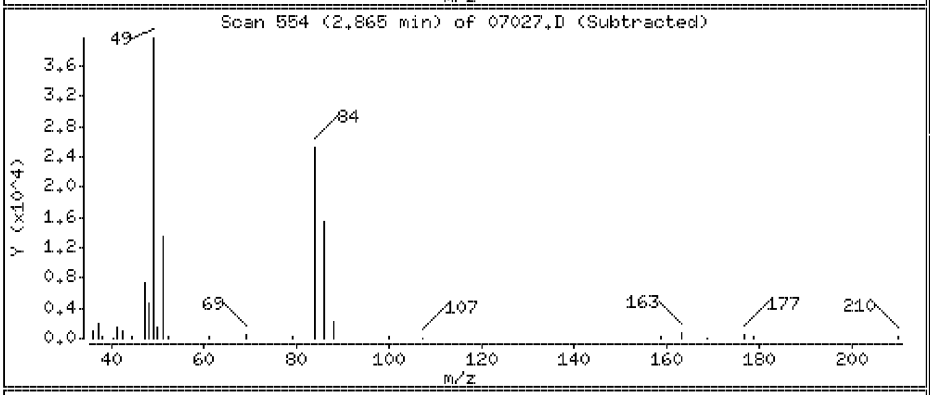
Column phase: J&W DB-5

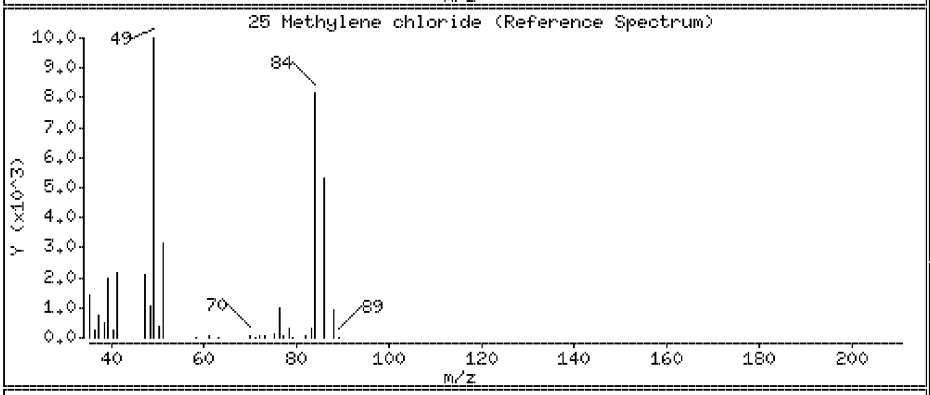
Column diameter: 0.32

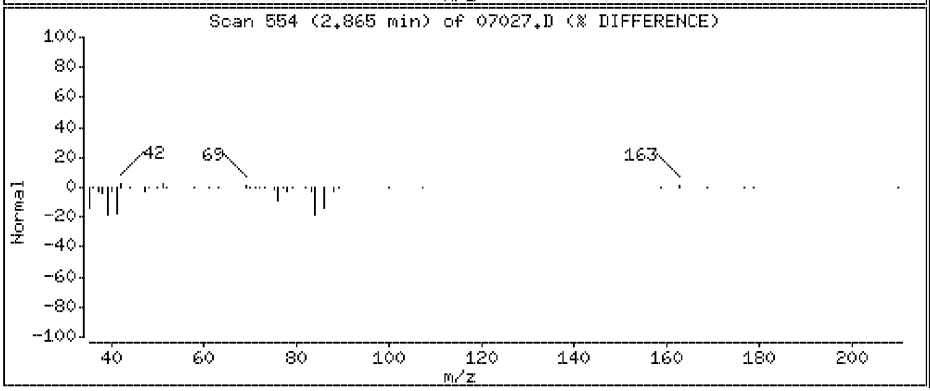
25 Methylene chloride

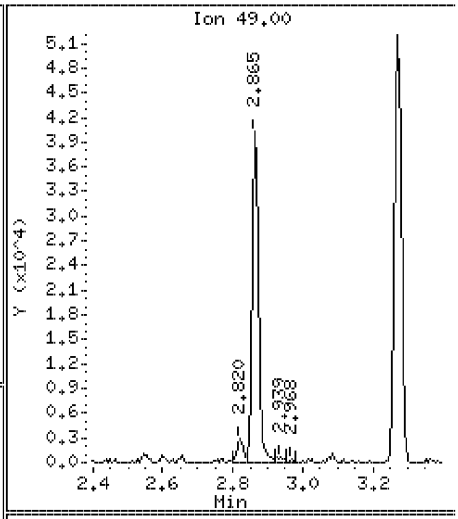
Concentration: 1.93 ppbv

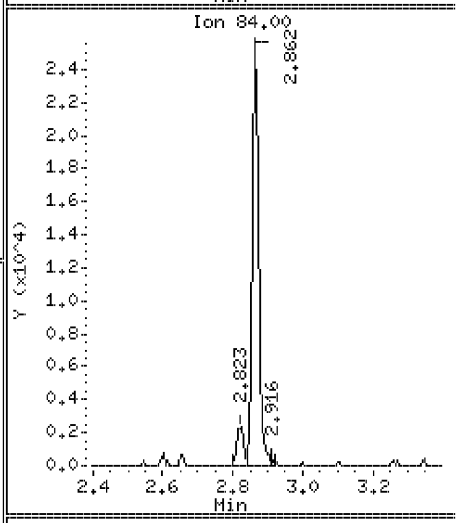


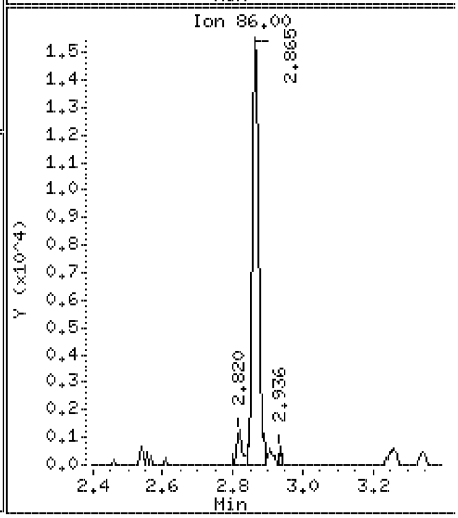












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

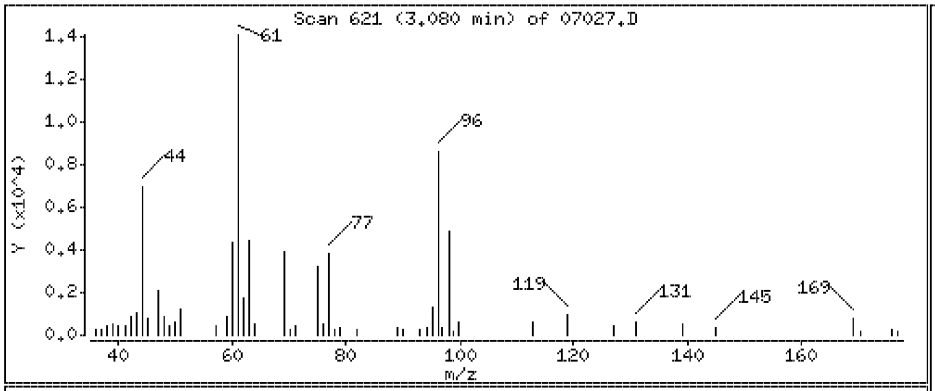
Operator: DR1

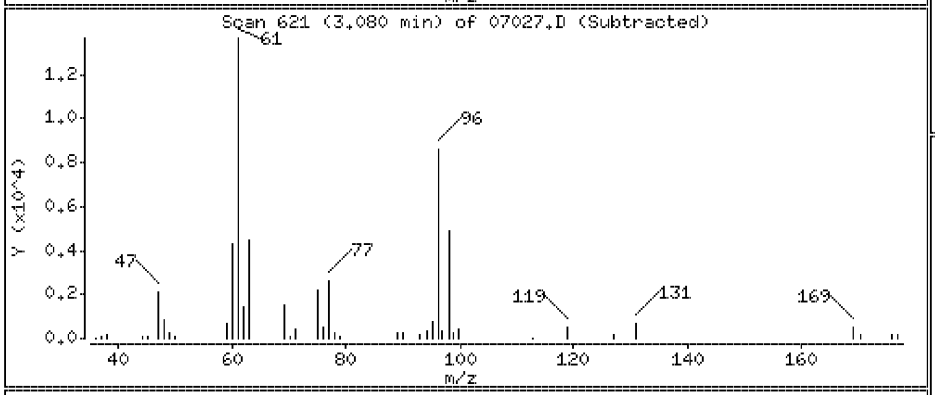
Column phase: J&W DB-5

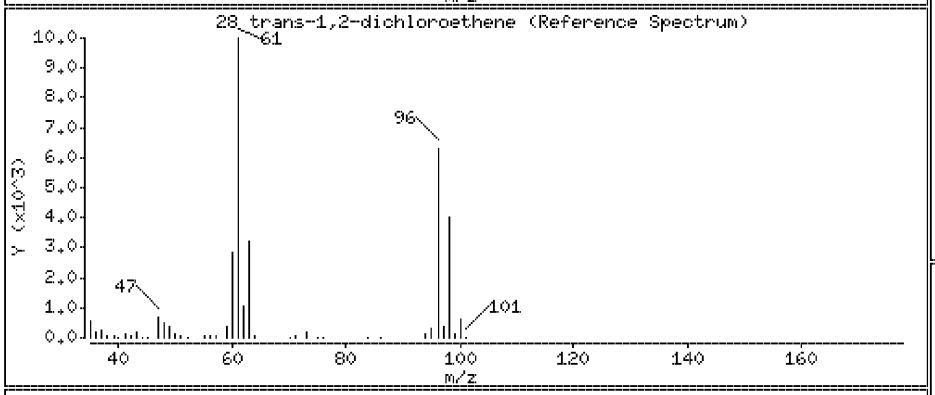
Column diameter: 0.32

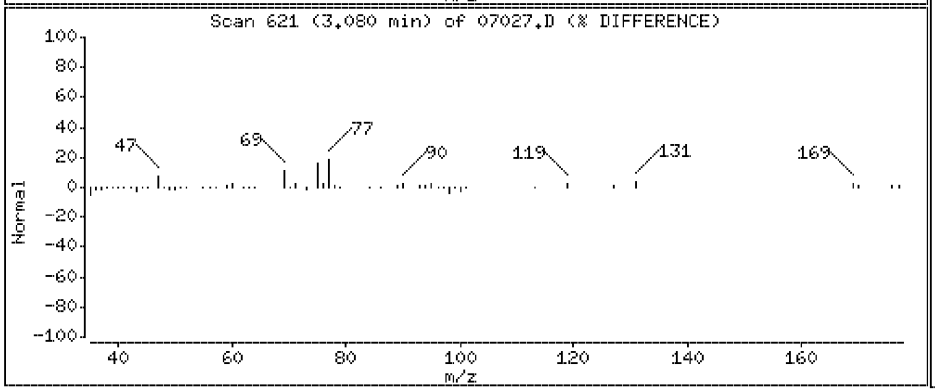
28 trans-1,2-dichloroethene

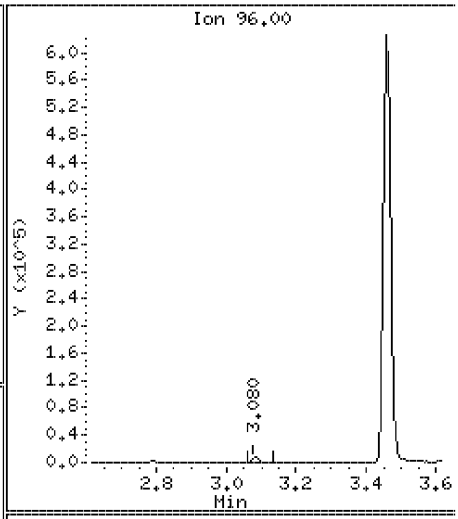
Concentration: 0.867 ppbv

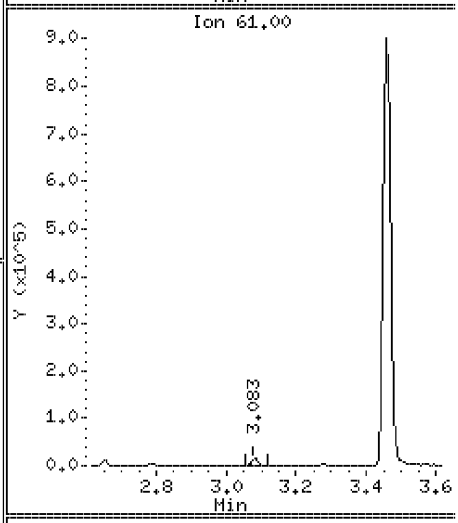


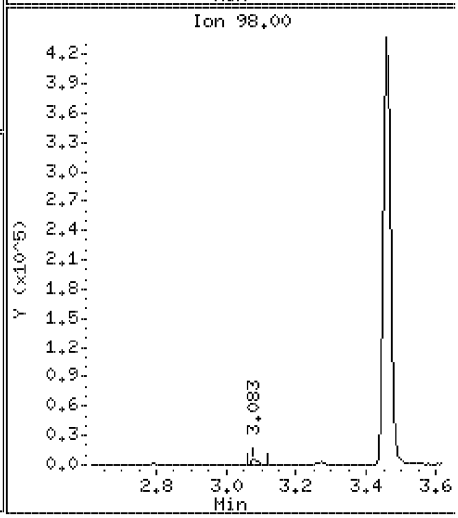












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

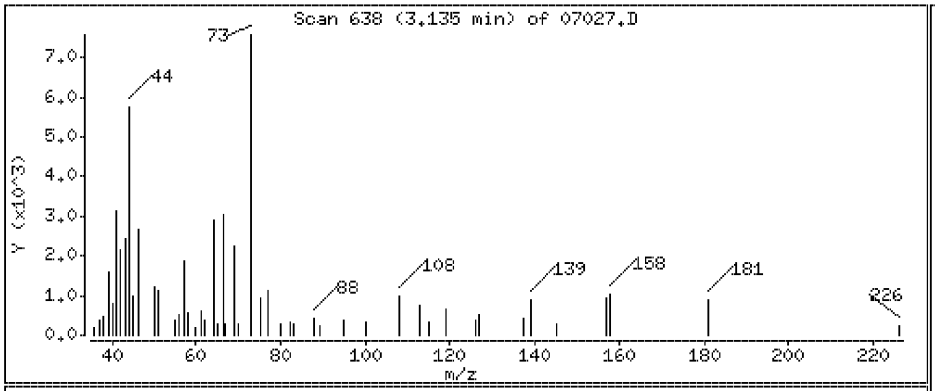
Operator: DR1

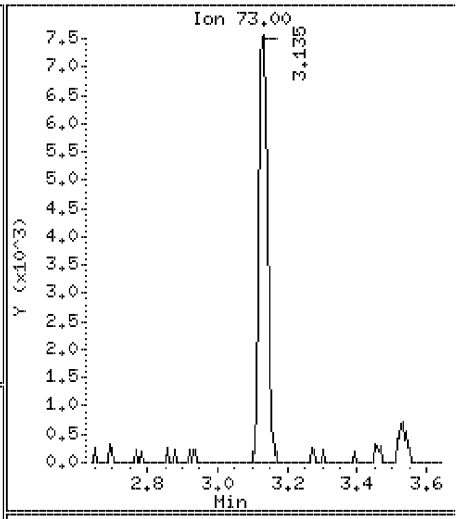
Column phase: J&W DB-5

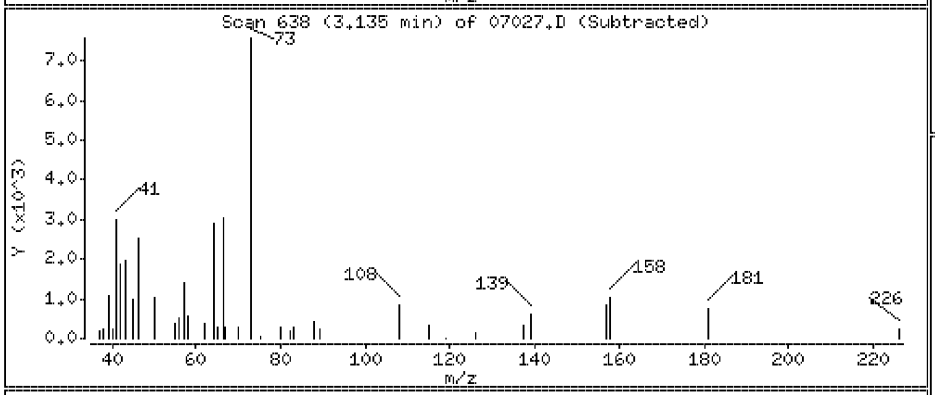
Column diameter: 0.32

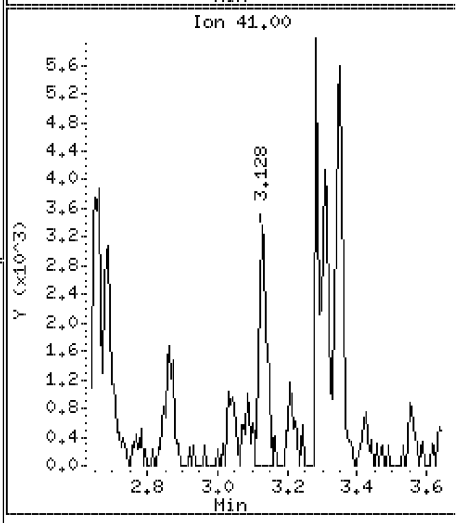
29 Methyl Tert Butyl Ether

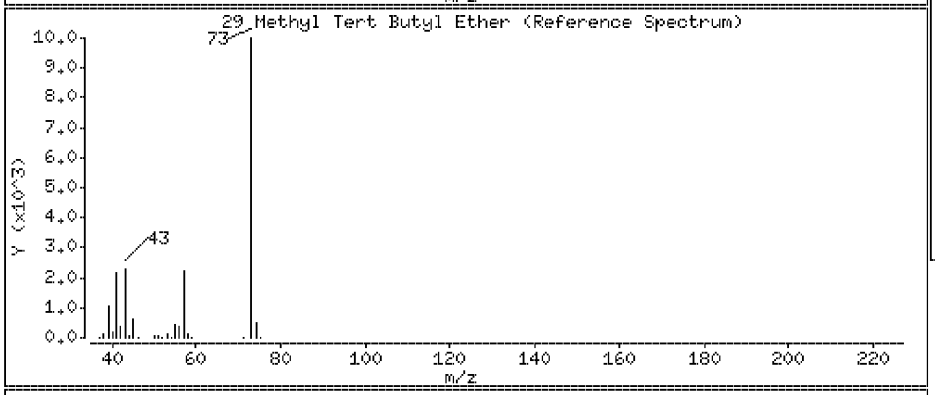
Concentration: 0.370 ppbv

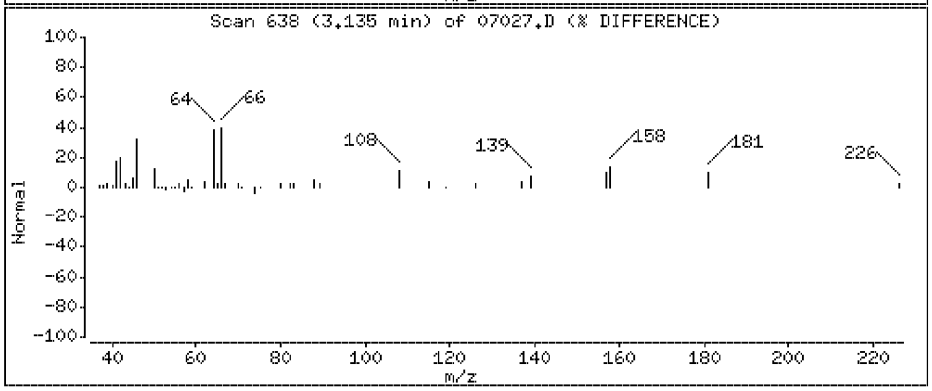












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

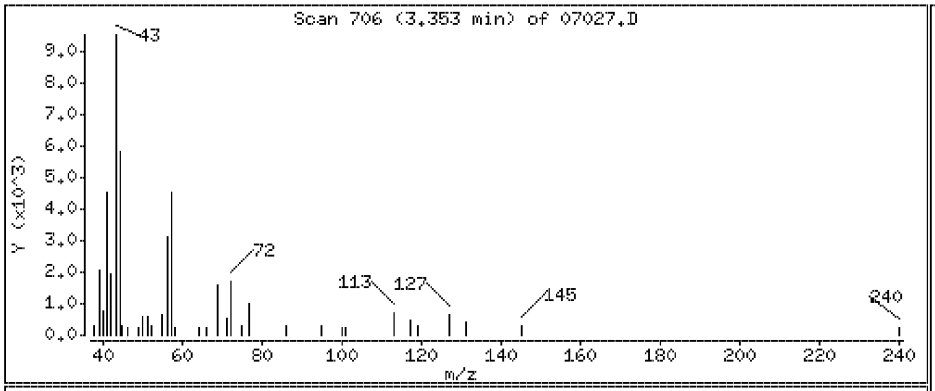
Operator: DR1

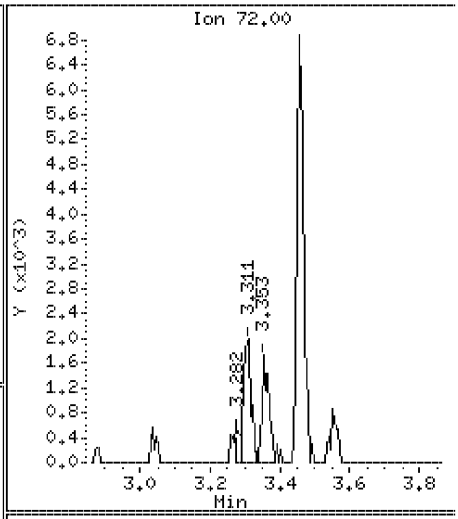
Column phase: J&W DB-5

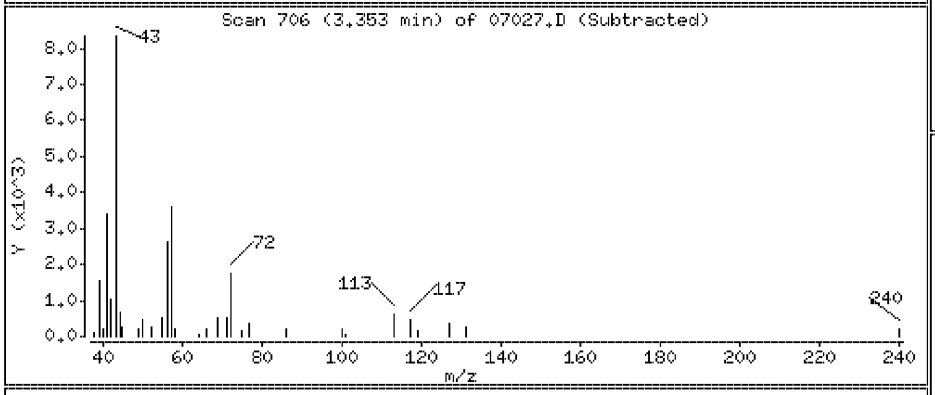
Column diameter: 0.32

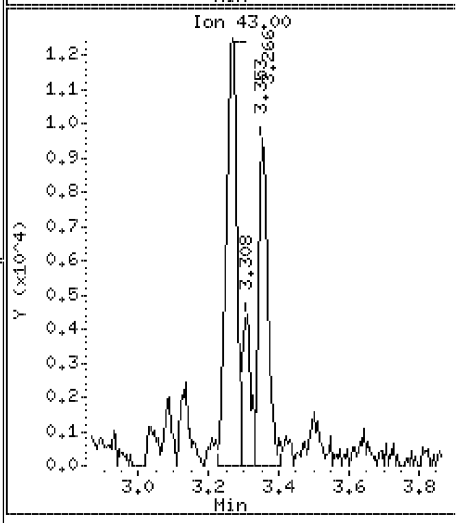
33 Methyl Ethyl Ketone

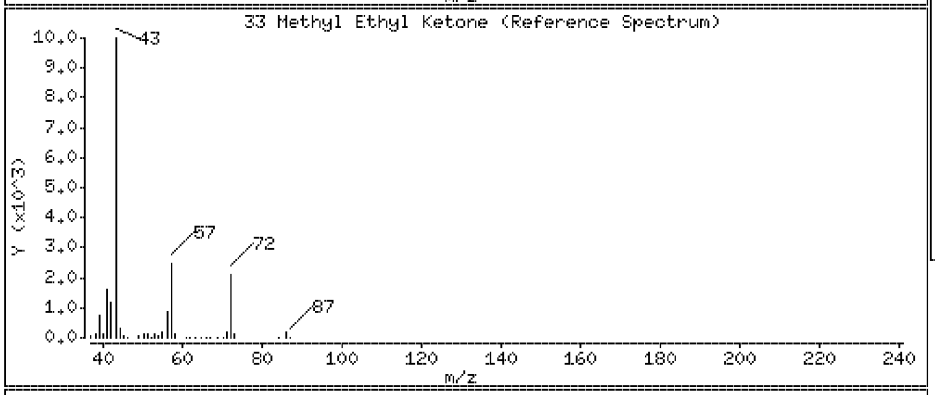
Concentration: 0.340 ppbv

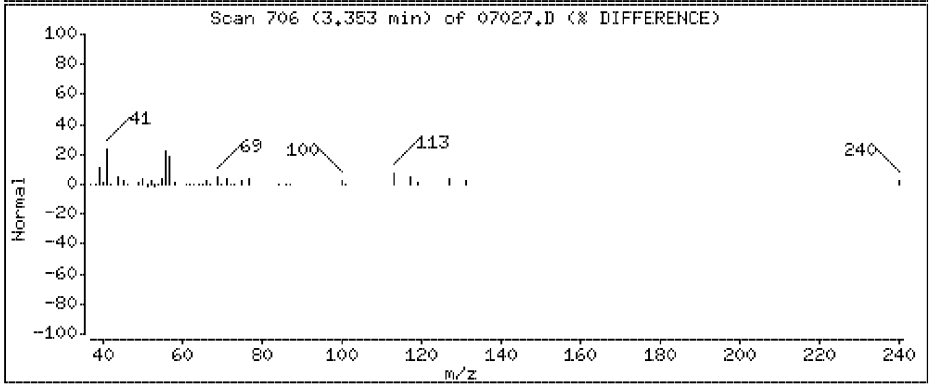












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

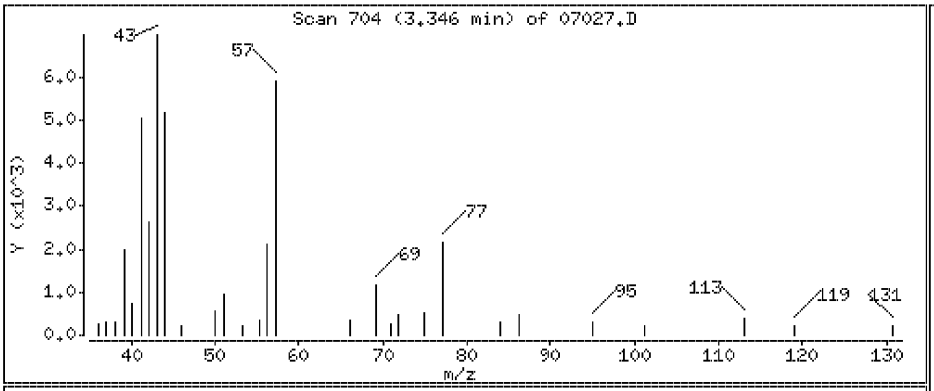
Operator: DR1

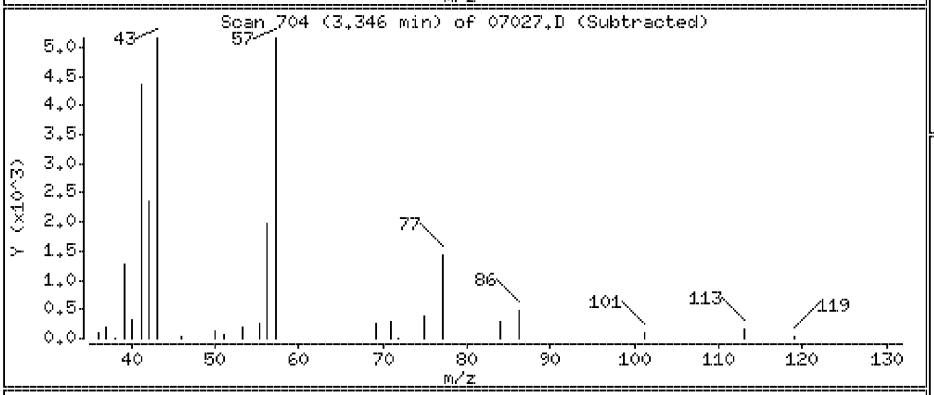
Column phase: J&W DB-5

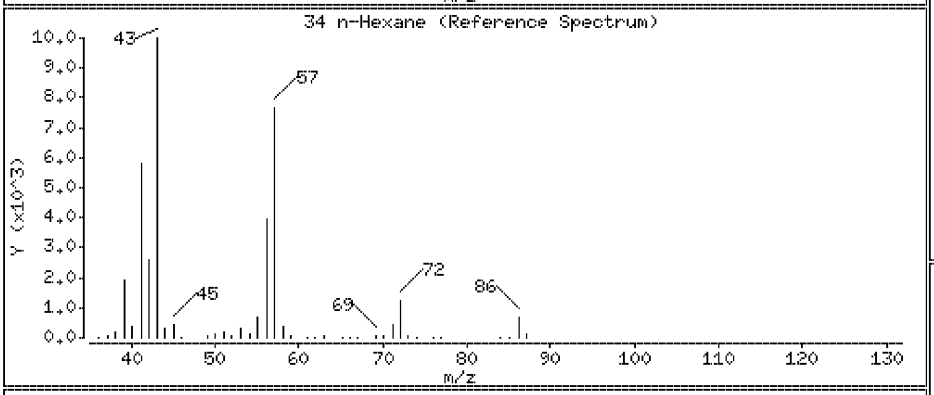
Column diameter: 0.32

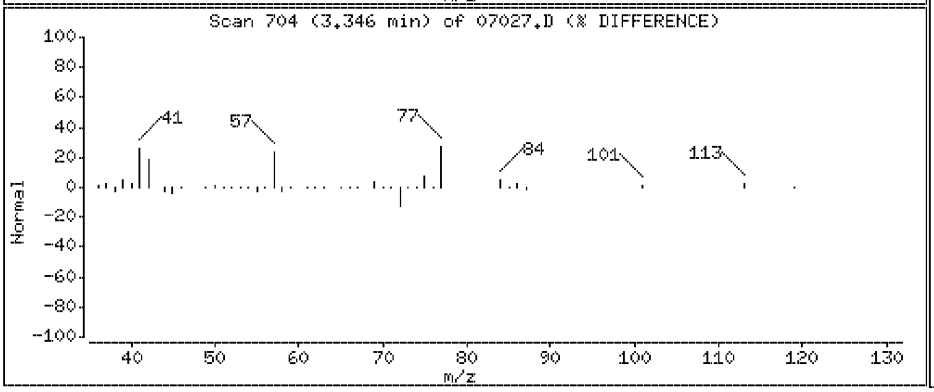
34 n-Hexane

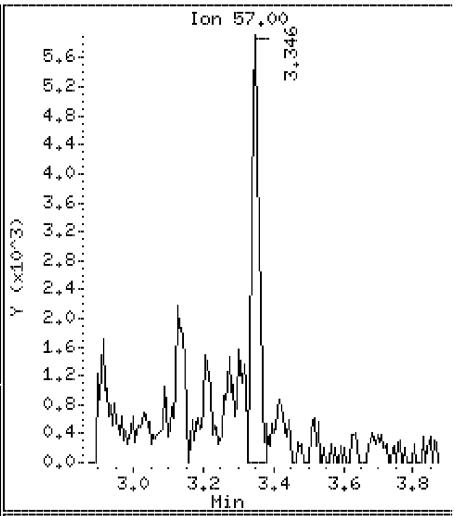
Concentration: 0.371 ppbv

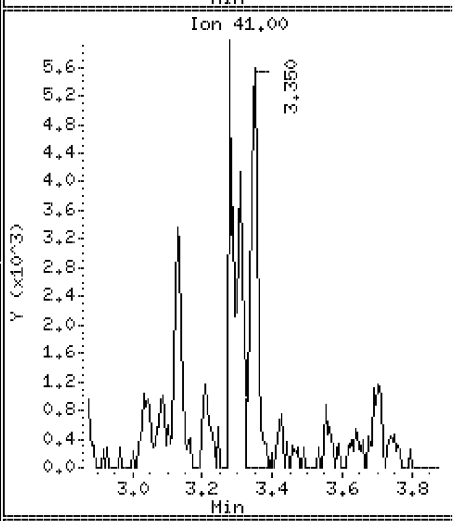


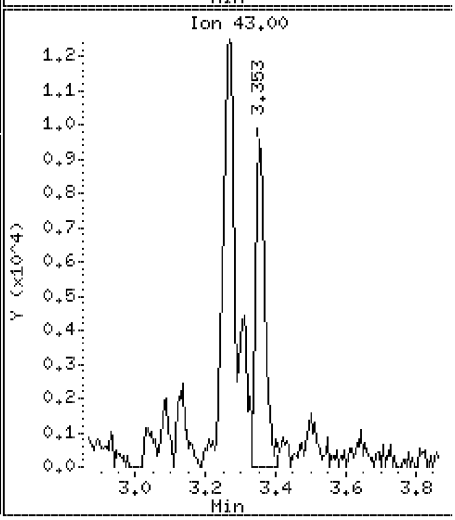












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

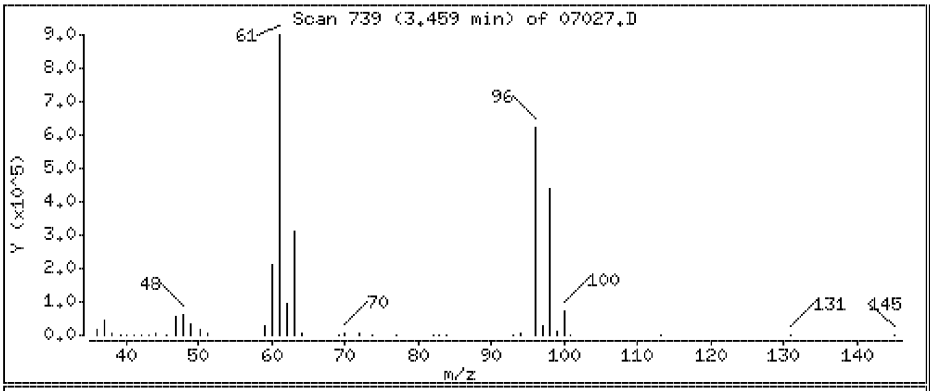
Operator: DR1

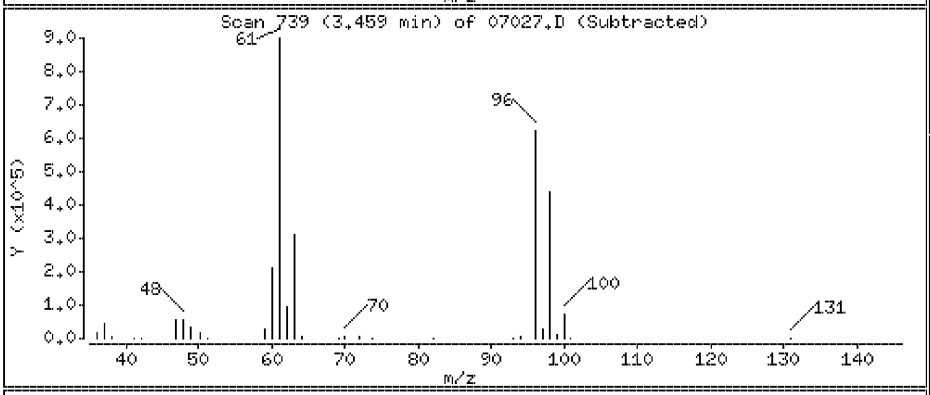
Column phase: J&W DB-5

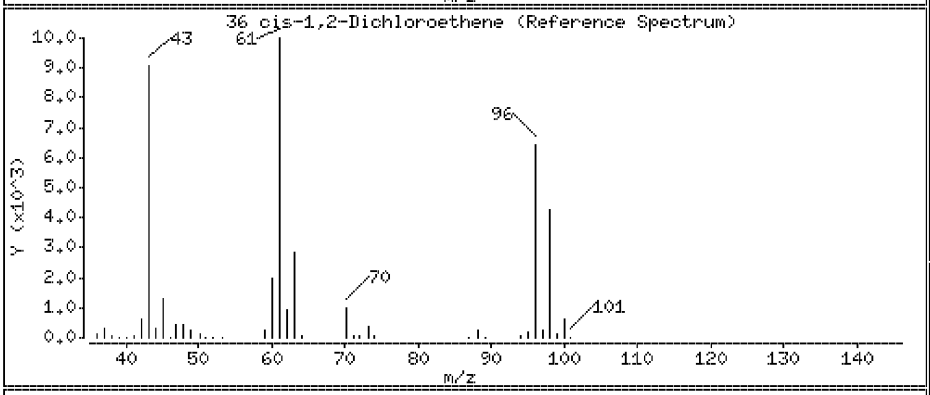
Column diameter: 0.32

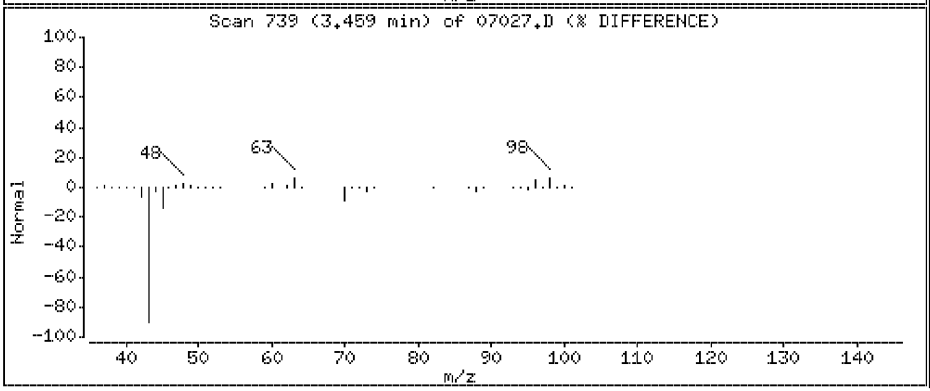
36 cis-1,2-Dichloroethene

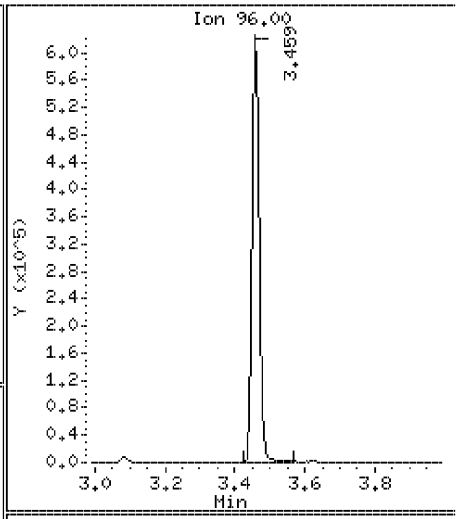
Concentration: 60.3 ppbv

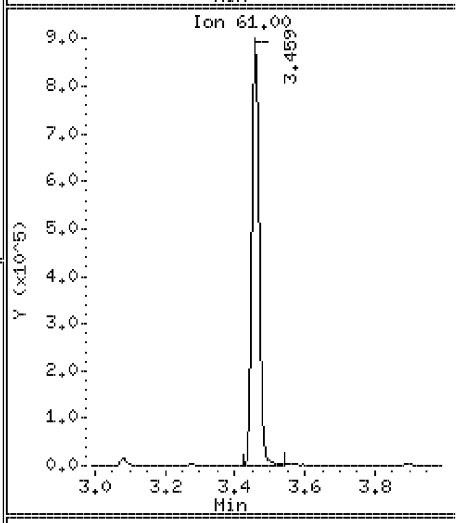


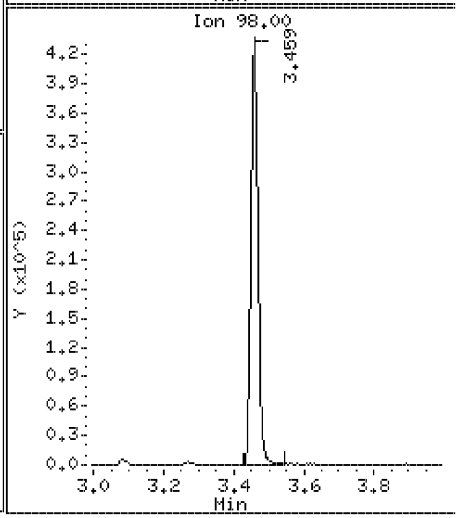












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

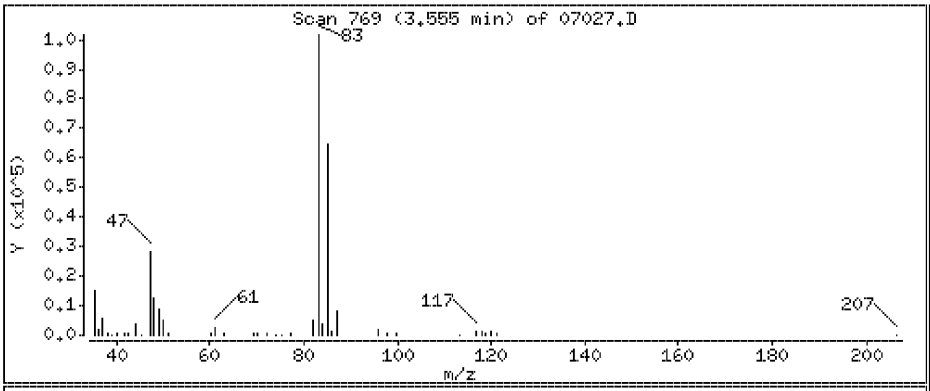
Operator: DR1

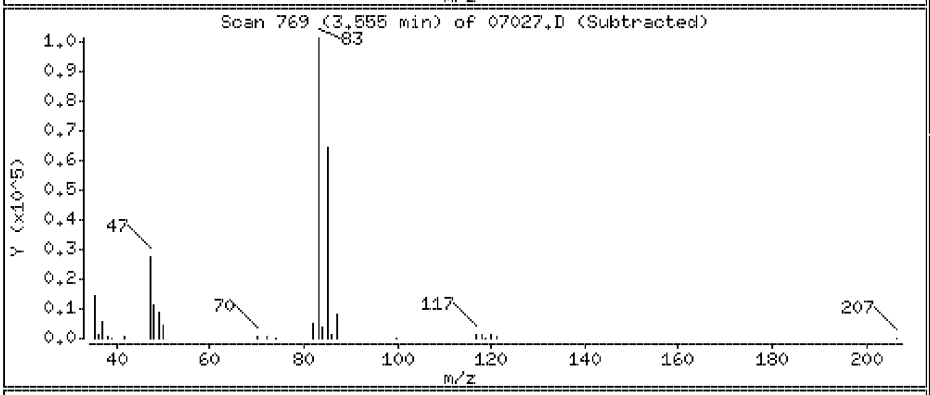
Column phase: J&W DB-5

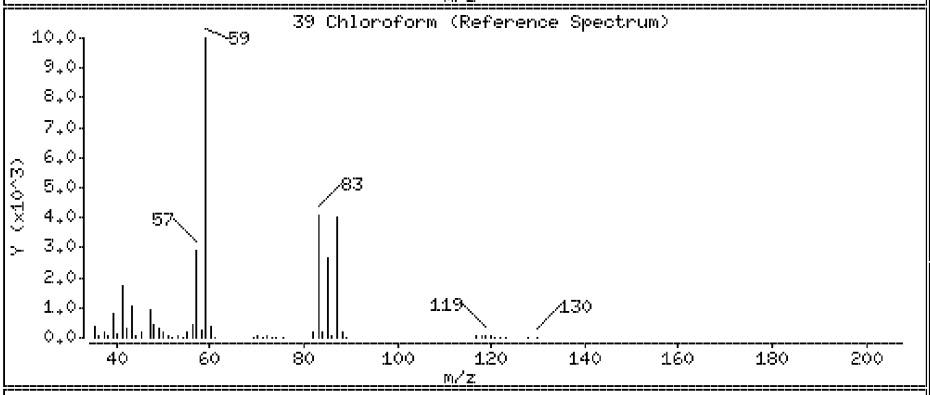
Column diameter: 0.32

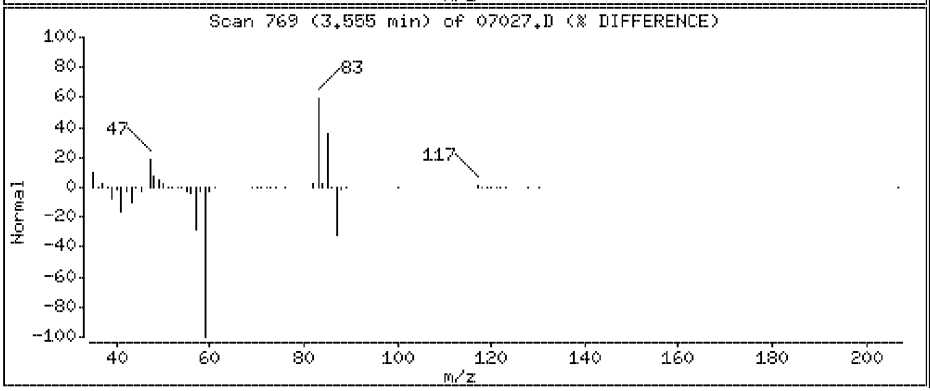
39 Chloroform

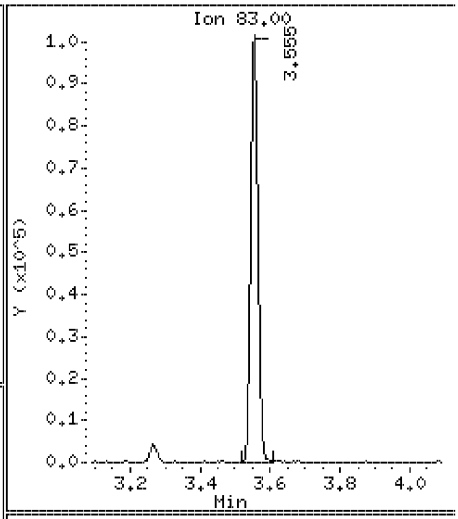
Concentration: 3.90 ppbv

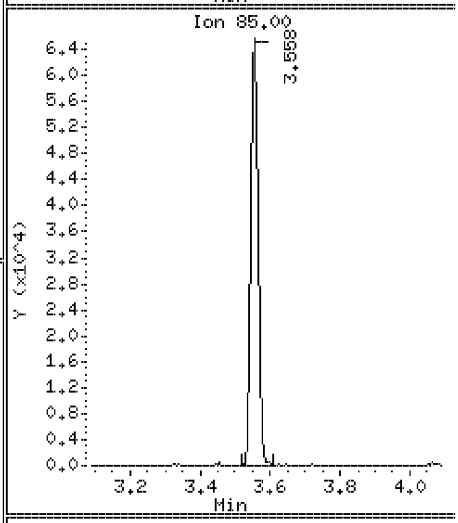


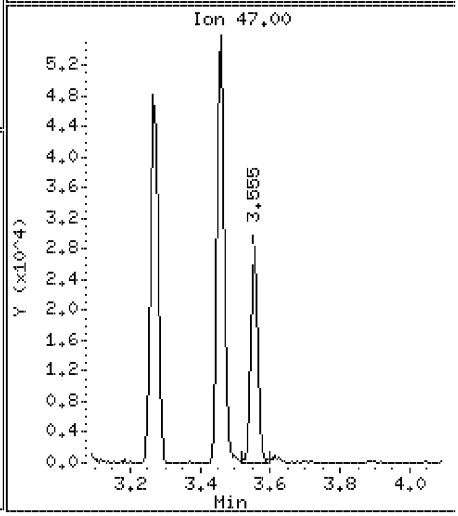












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

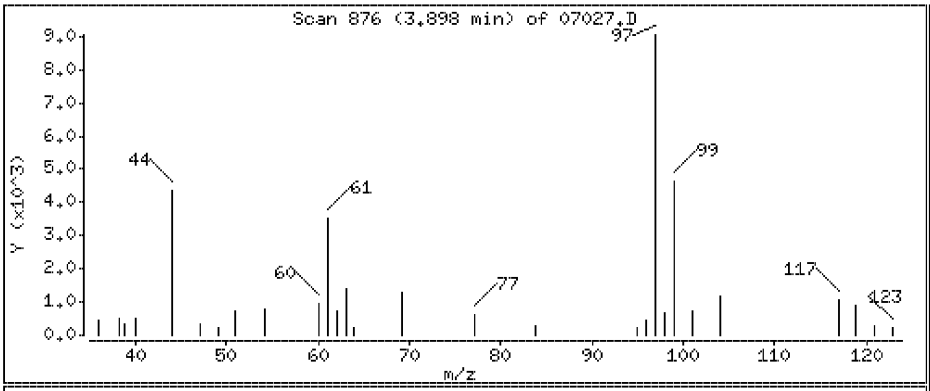
Operator: DR1

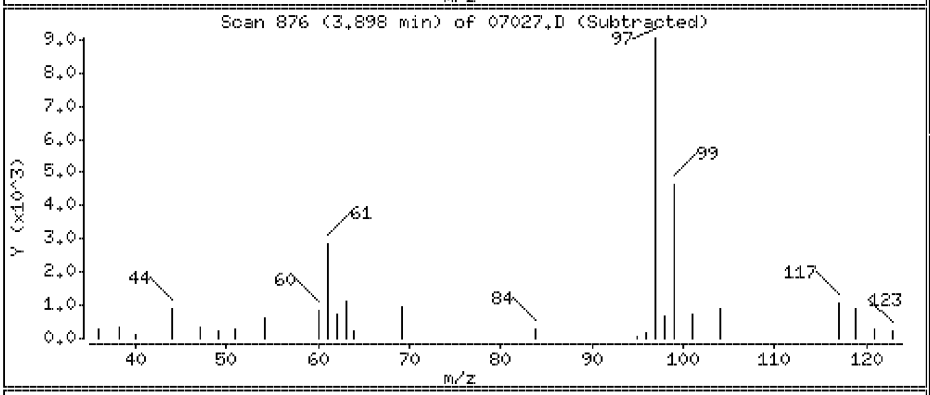
Column phase: J&W DB-5

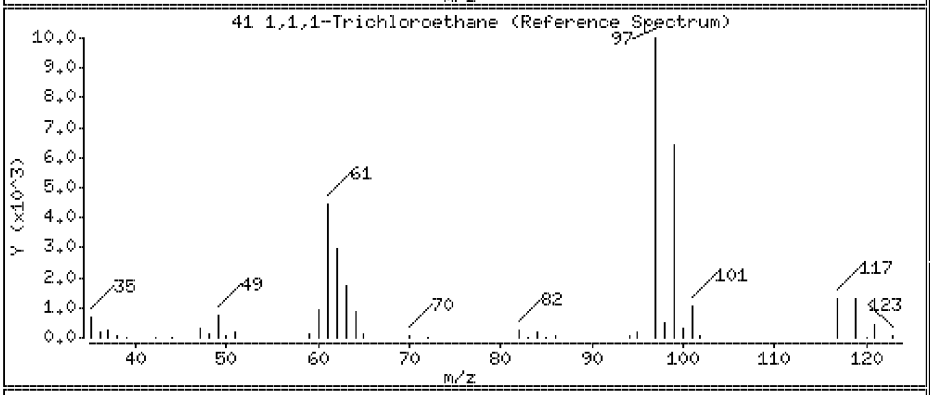
Column diameter: 0.32

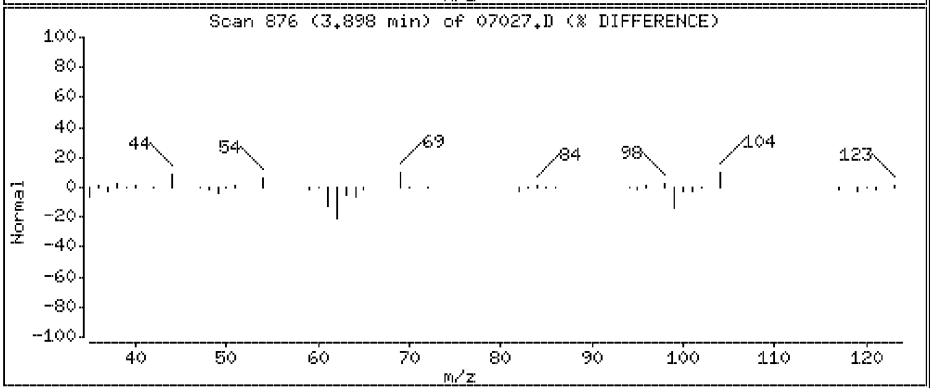
41 1,1,1-Trichloroethane

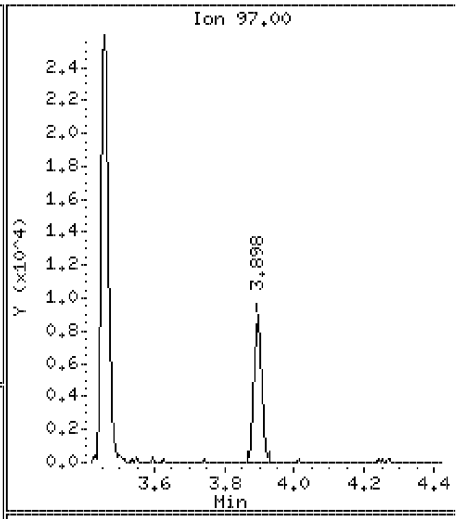
Concentration: 0.360 ppbv

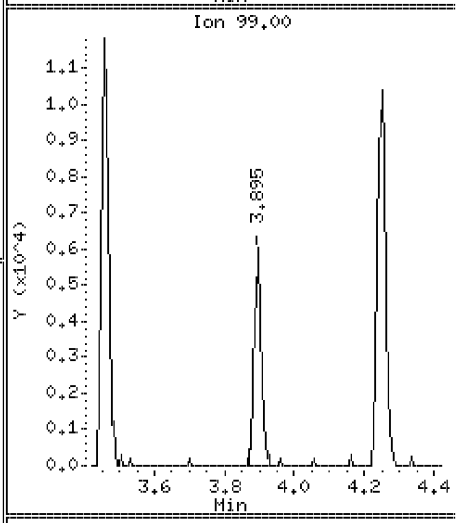


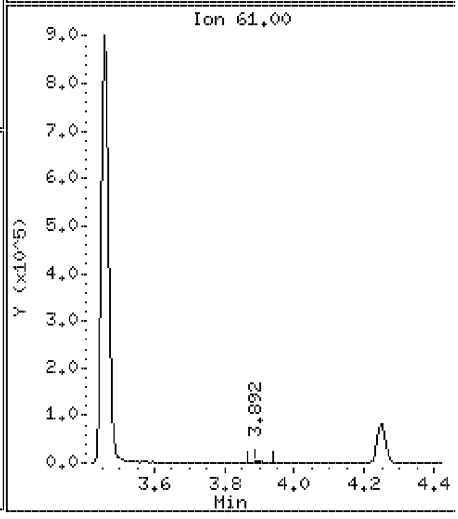












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

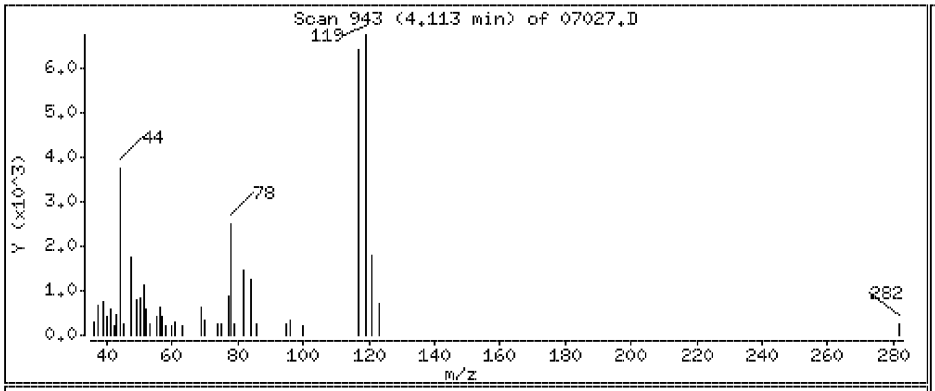
Operator: DR1

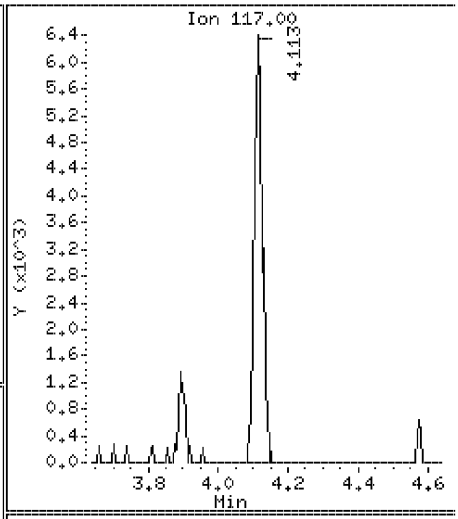
Column phase: J&W DB-5

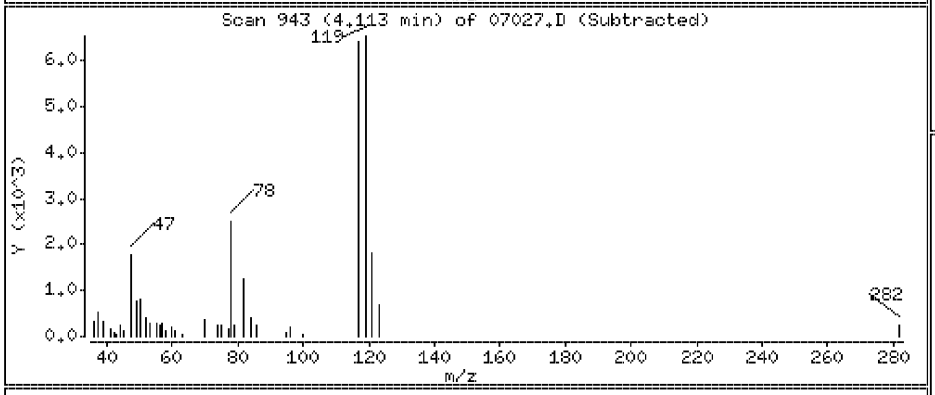
Column diameter: 0.32

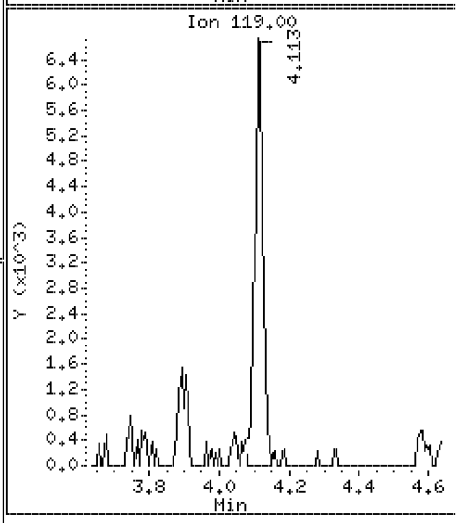
45 Carbon tetrachloride

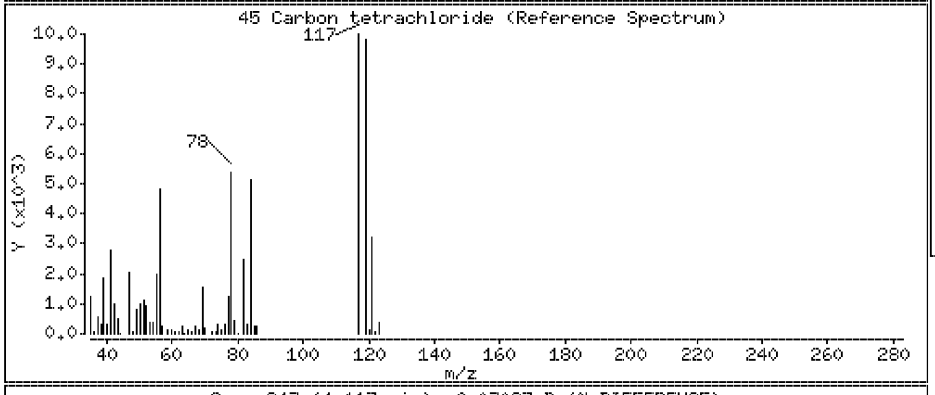
Concentration: 0.299 ppbv

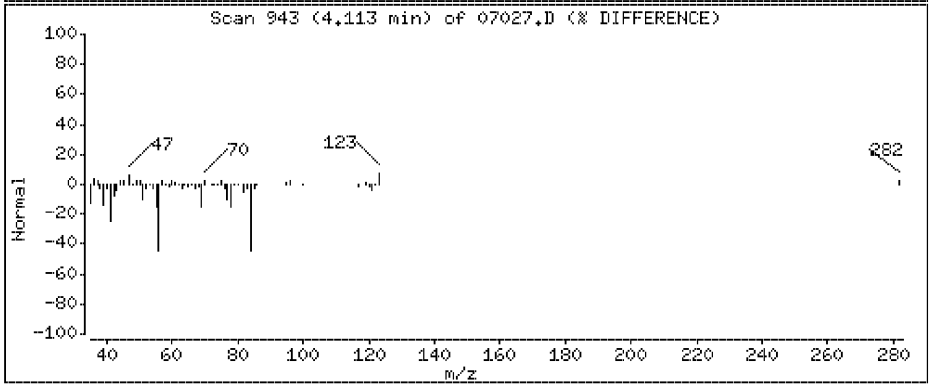












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

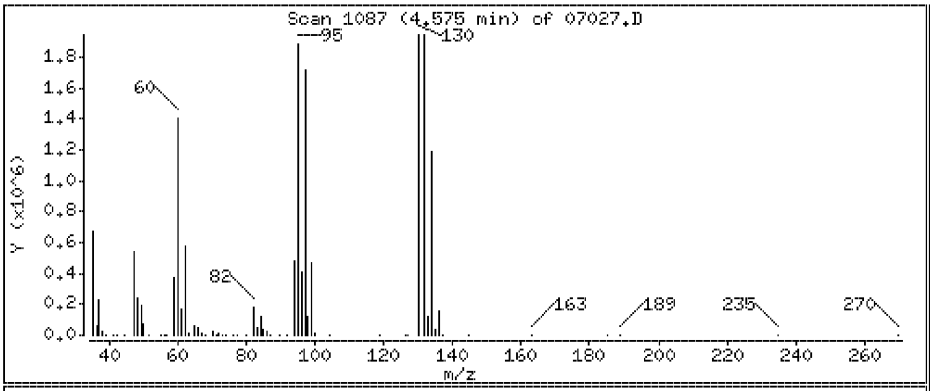
Operator: DR1

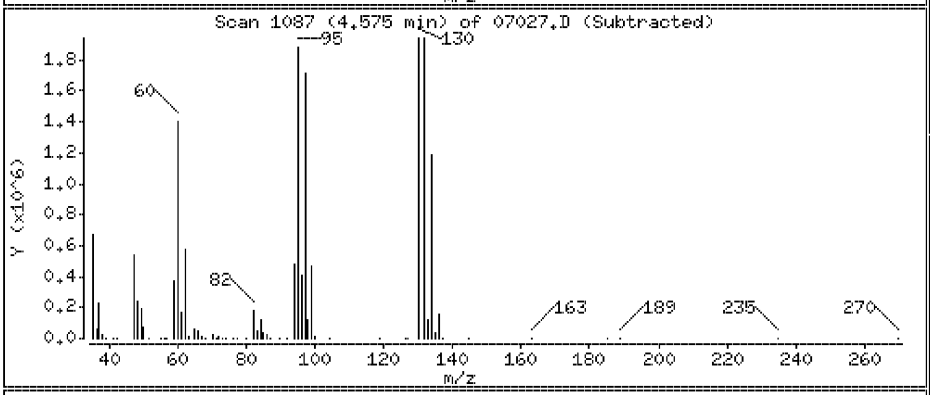
Column phase: J&W DB-5

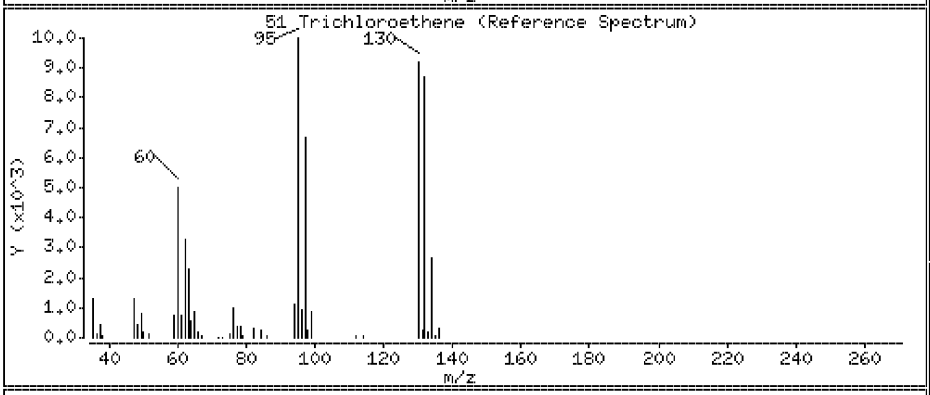
Column diameter: 0.32

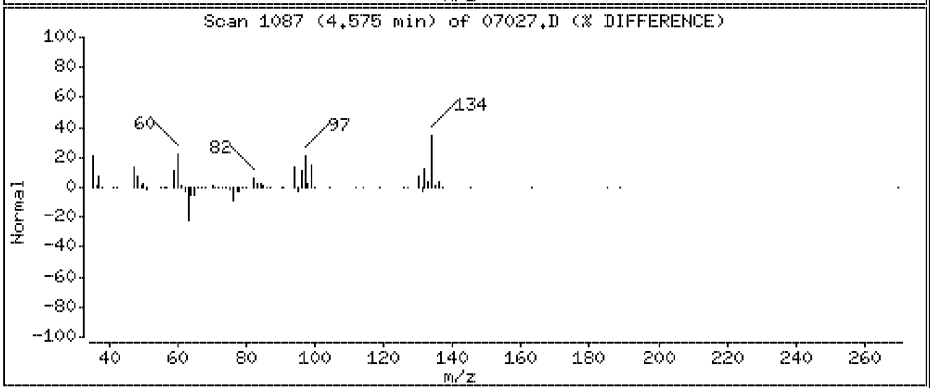
51 Trichloroethene

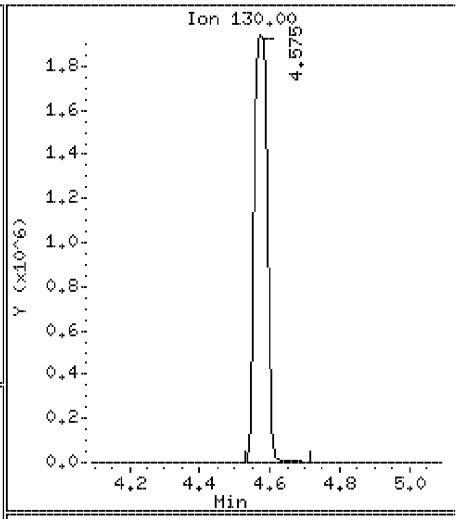
Concentration: 216 ppbv

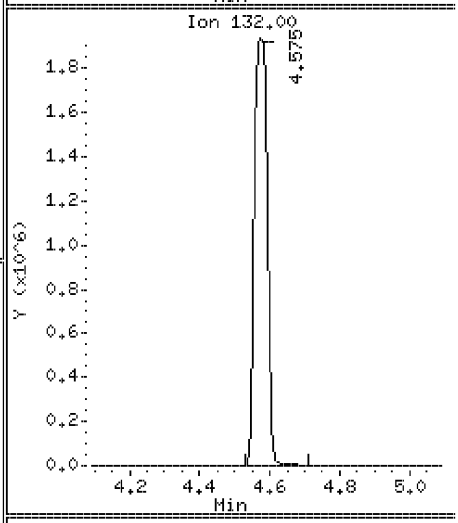


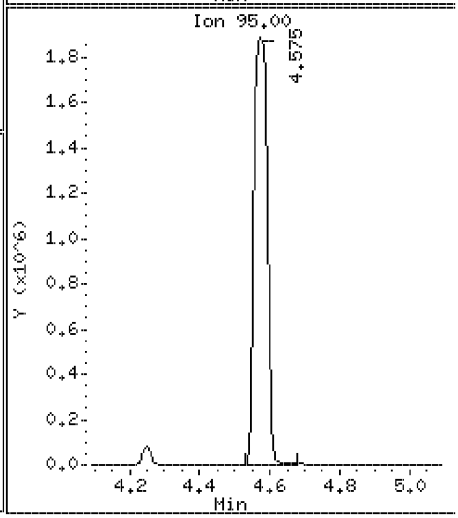












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

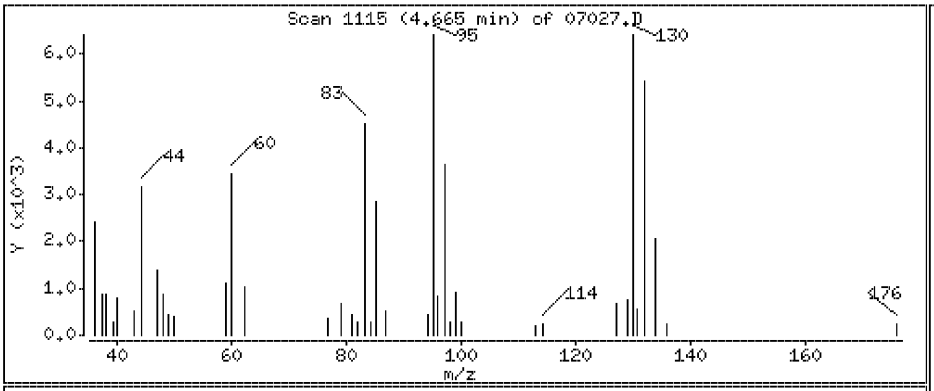
Operator: DR1

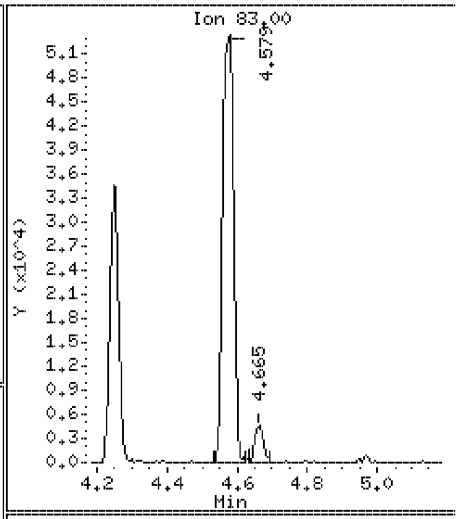
Column phase: J&W DB-5

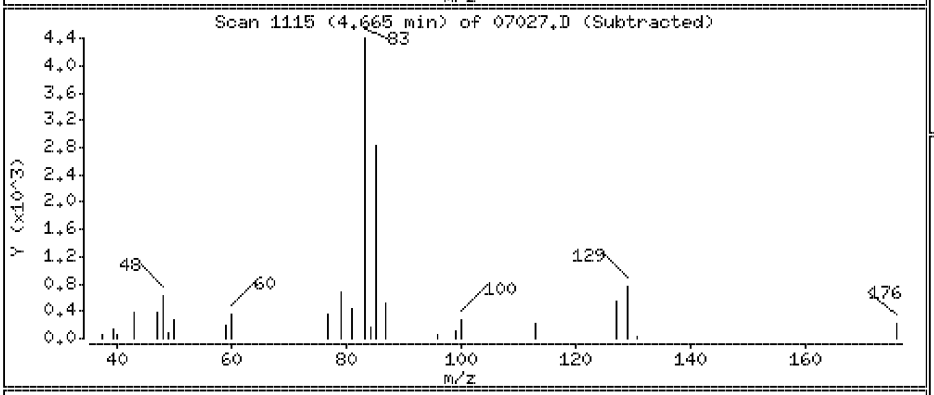
Column diameter: 0.32

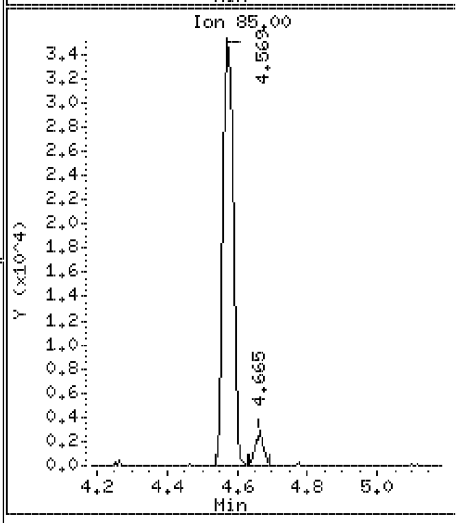
53 Bromodichloromethane

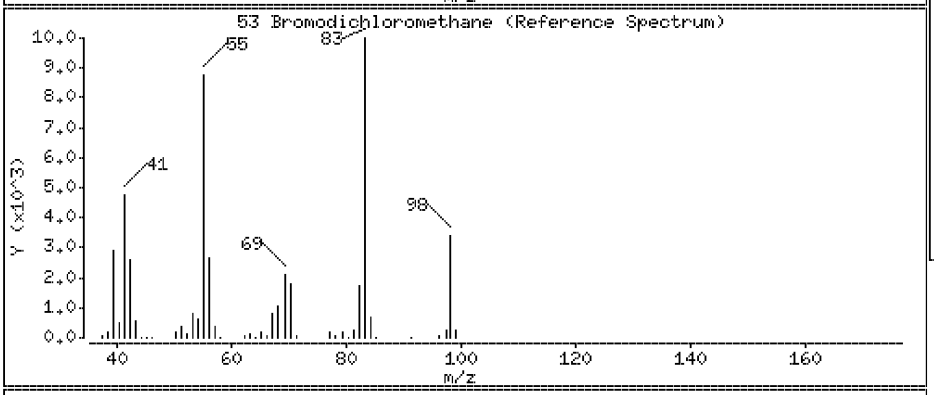
Concentration: 0.185 ppbv

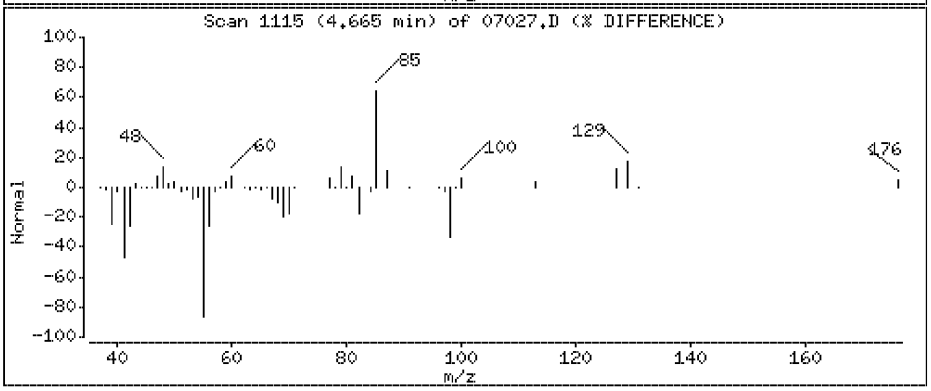












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

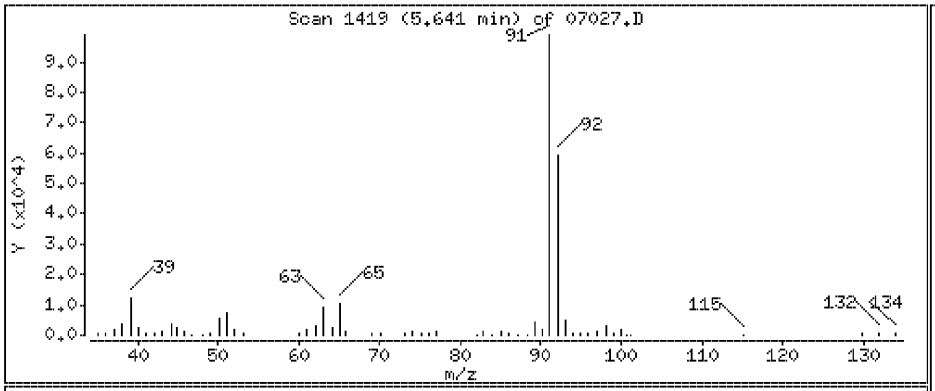
Operator: DR1

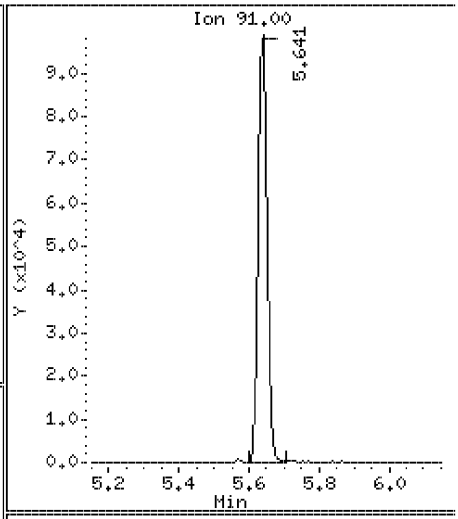
Column phase: J&W DB-5

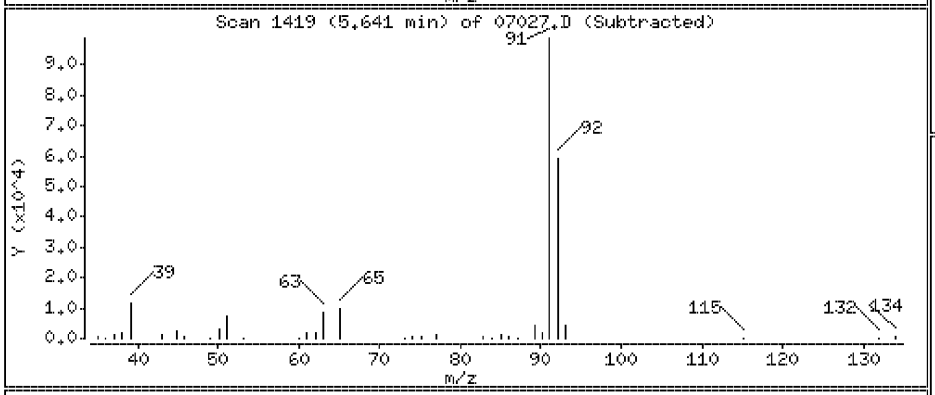
Column diameter: 0.32

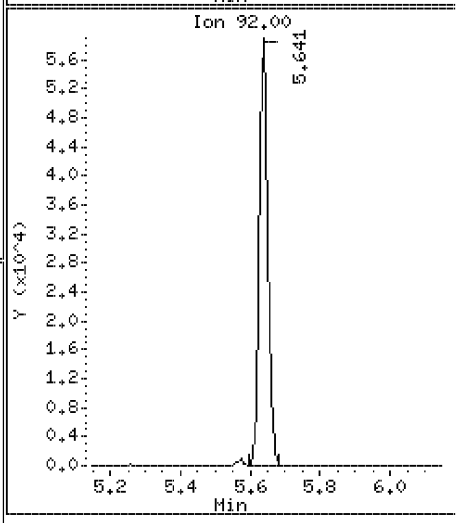
60 Toluene

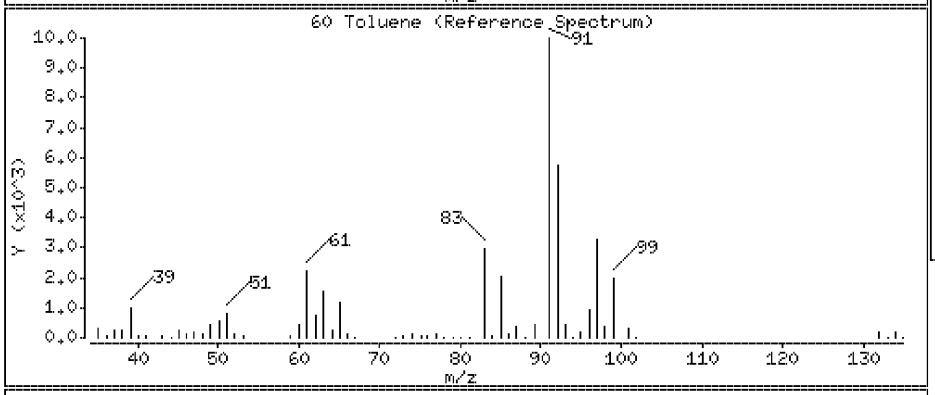
Concentration: 2.90 ppbv

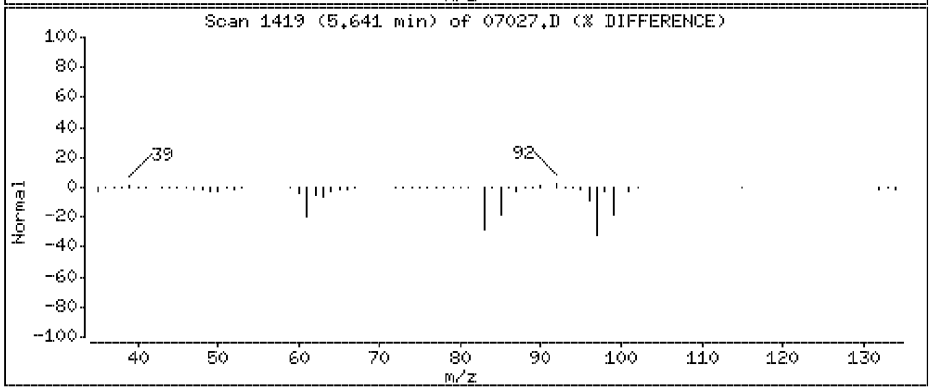












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

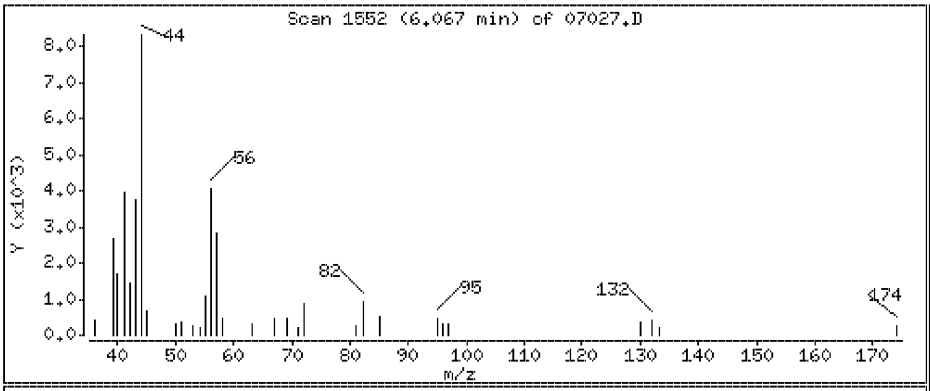
Operator: DR1

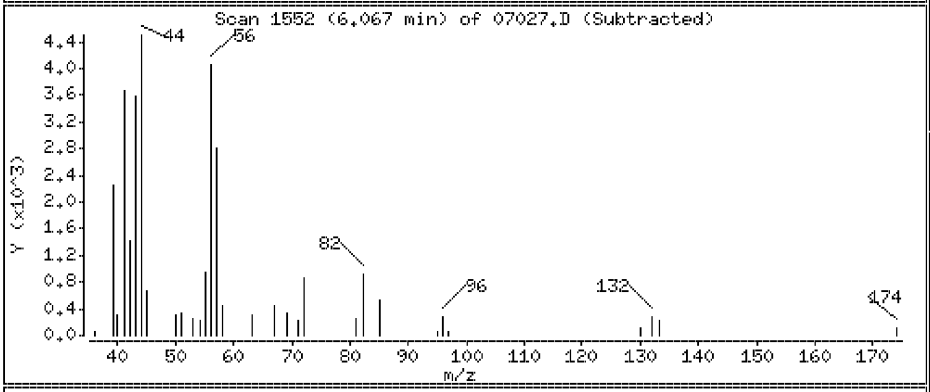
Column phase: J&W DB-5

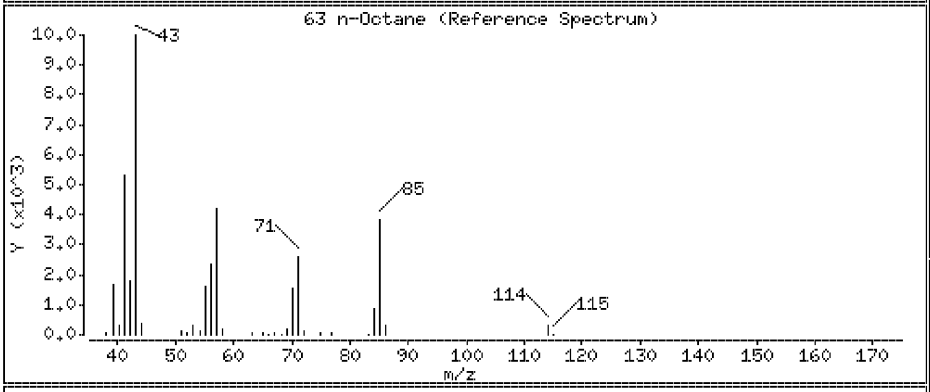
Column diameter: 0.32

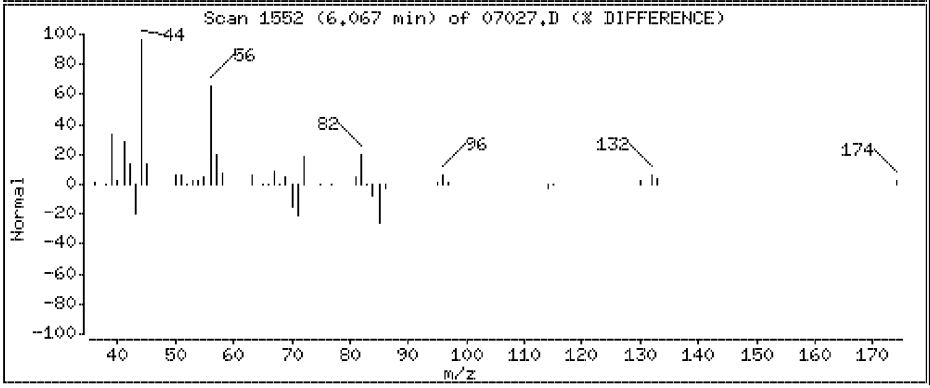
63 n-Octane

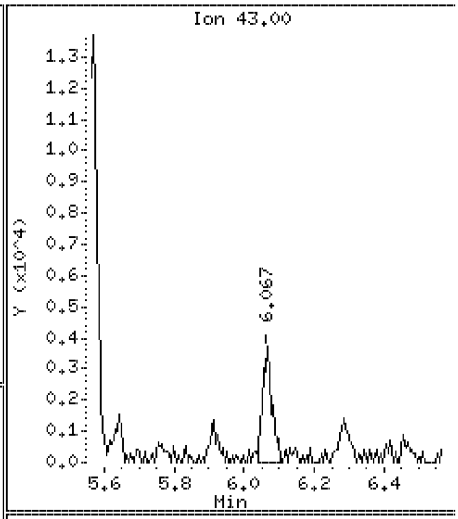
Concentration: 0.193 ppbv

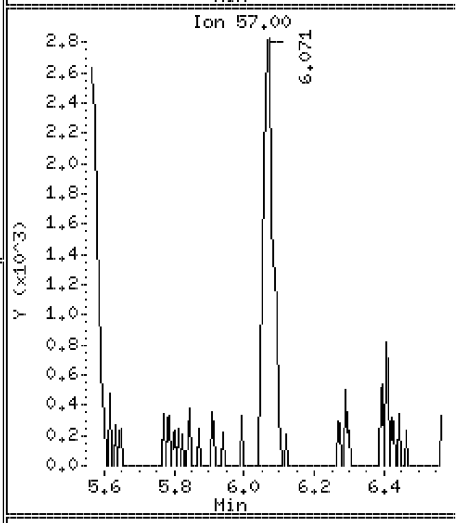


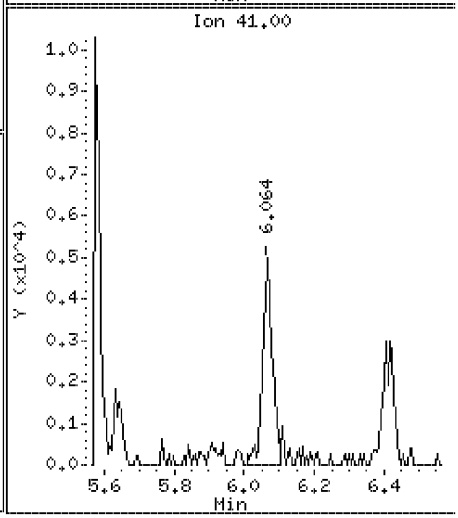












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

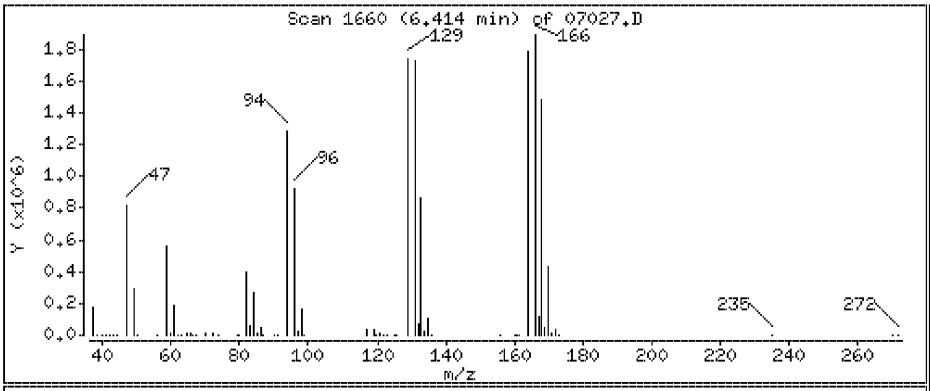
Operator: DR1

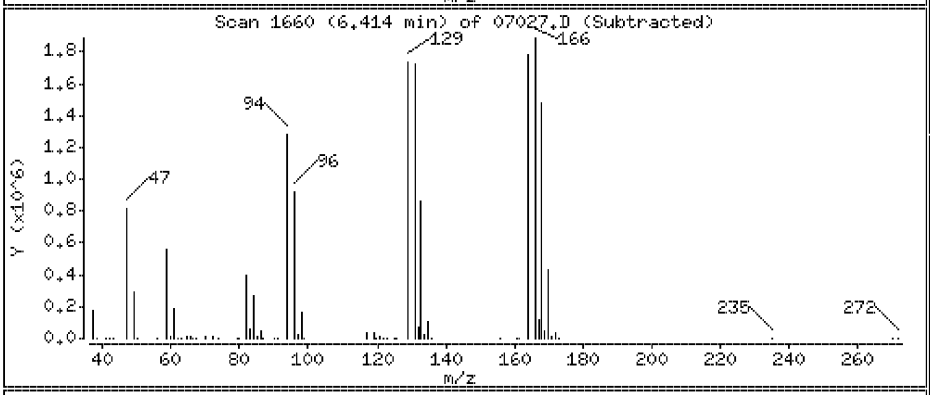
Column phase: J&W DB-5

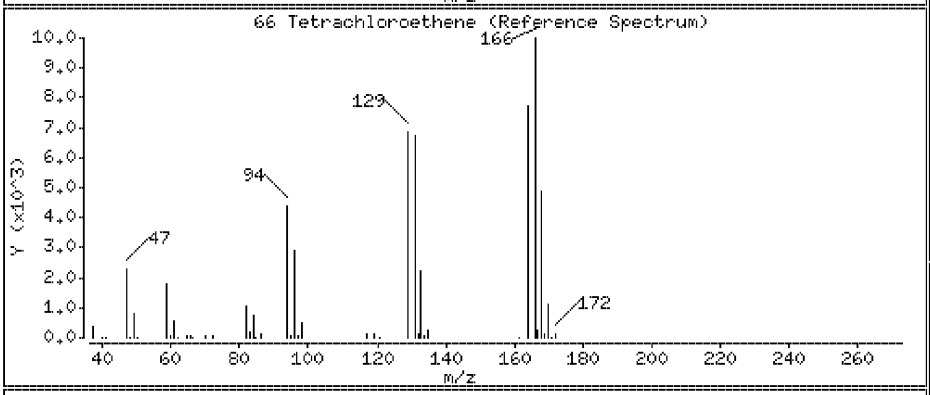
Column diameter: 0.32

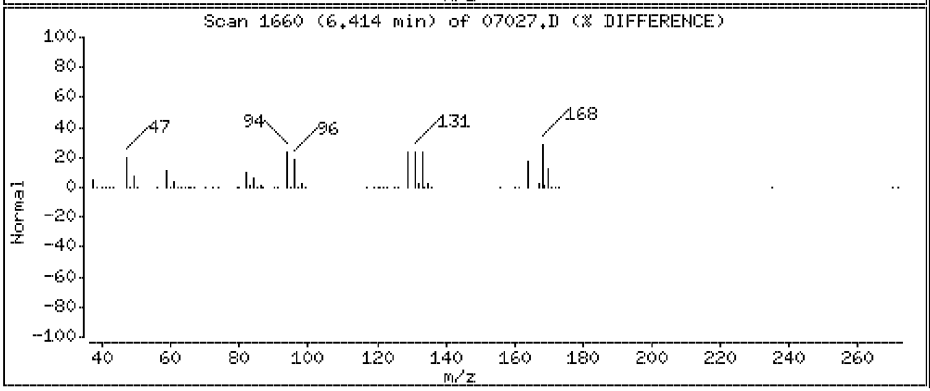
66 Tetrachloroethene

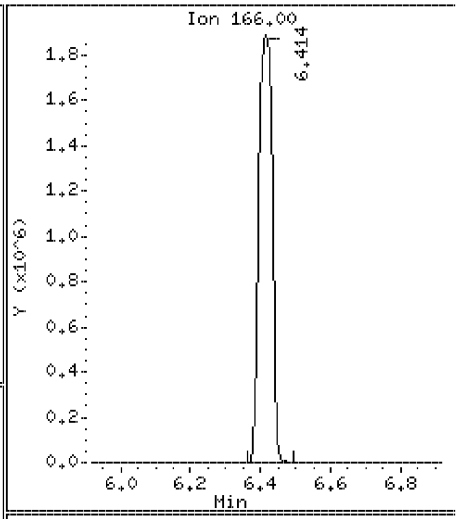
Concentration: 160 ppbv

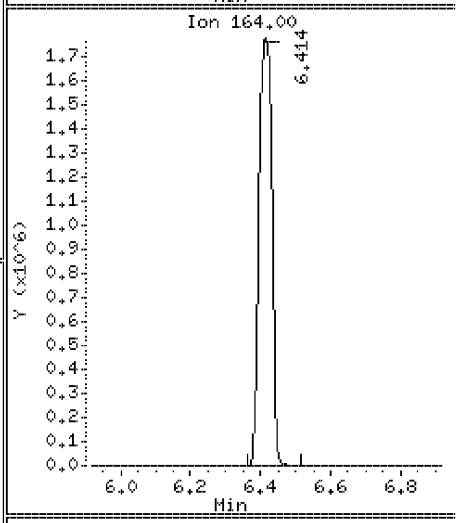


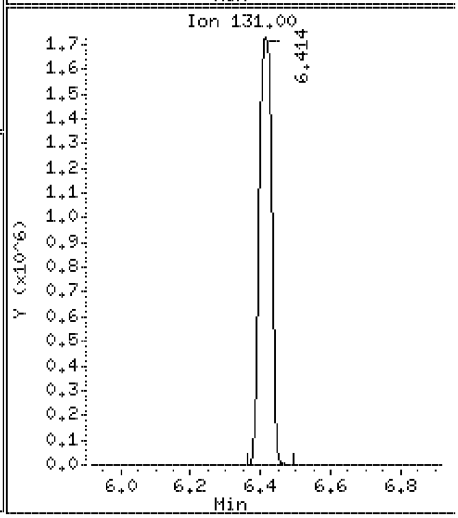












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

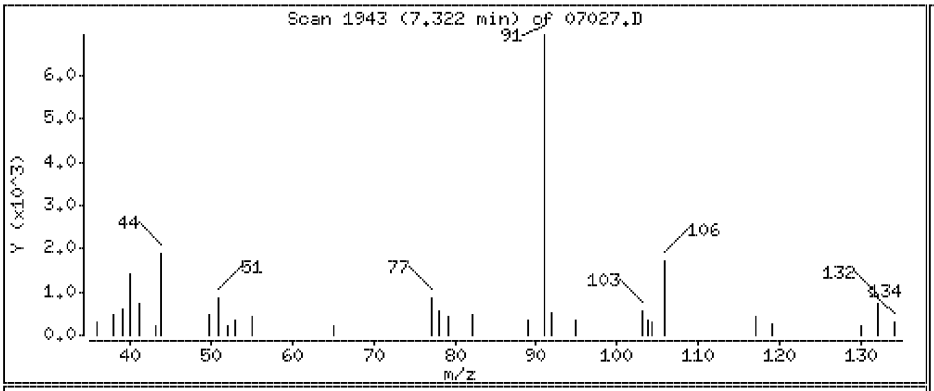
Operator: DR1

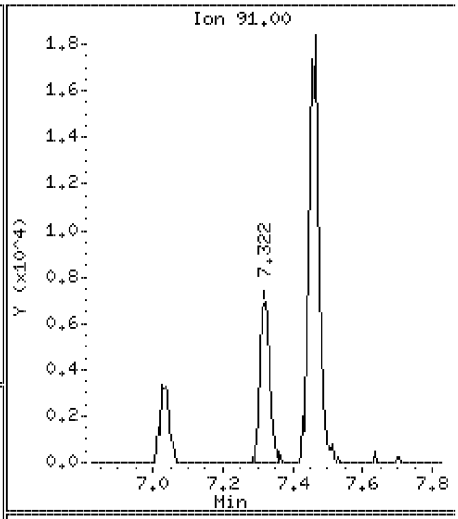
Column phase: J&W DB-5

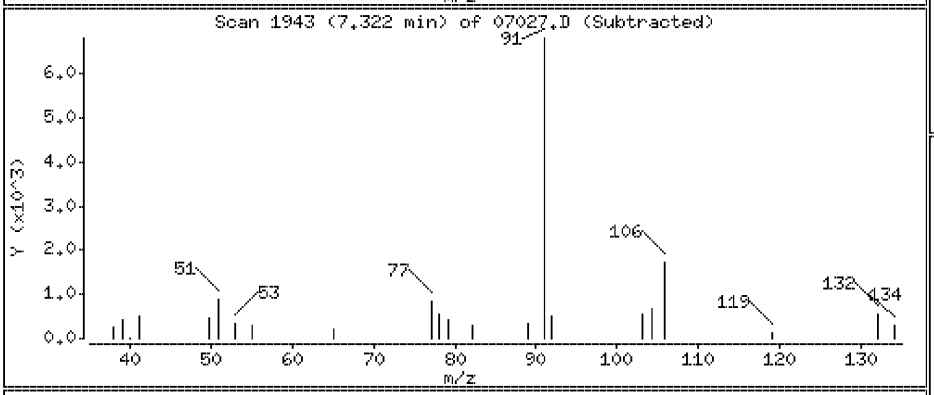
Column diameter: 0.32

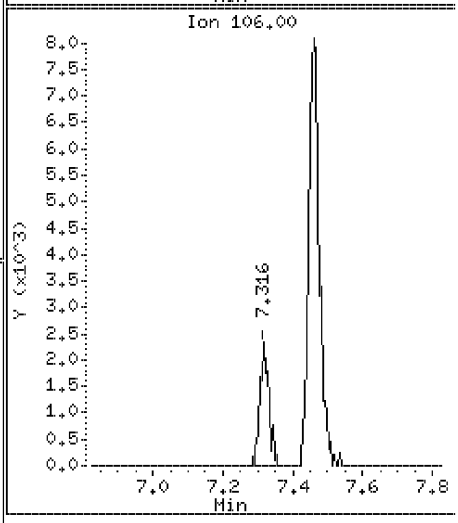
69 Ethyl Benzene

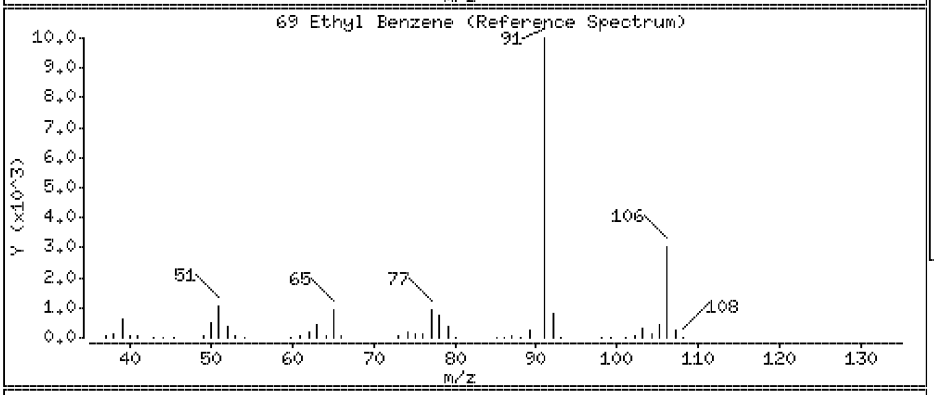
Concentration: 0.206 ppbv

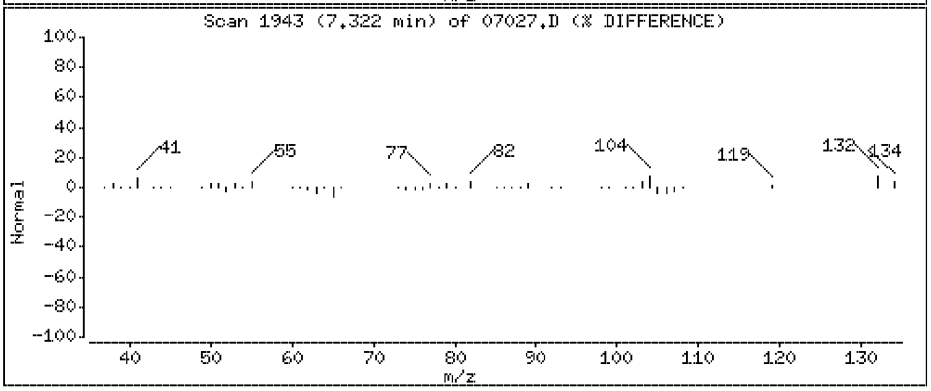












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

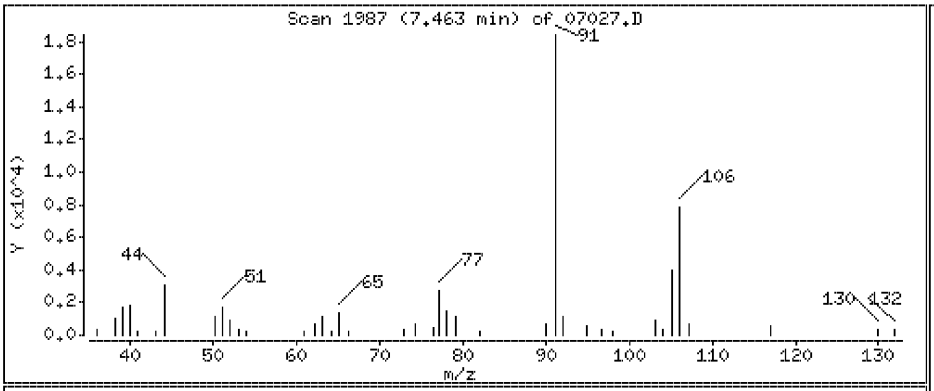
Operator: DR1

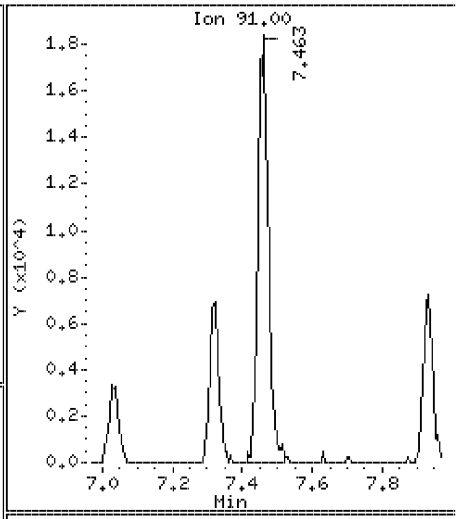
Column phase: J&W DB-5

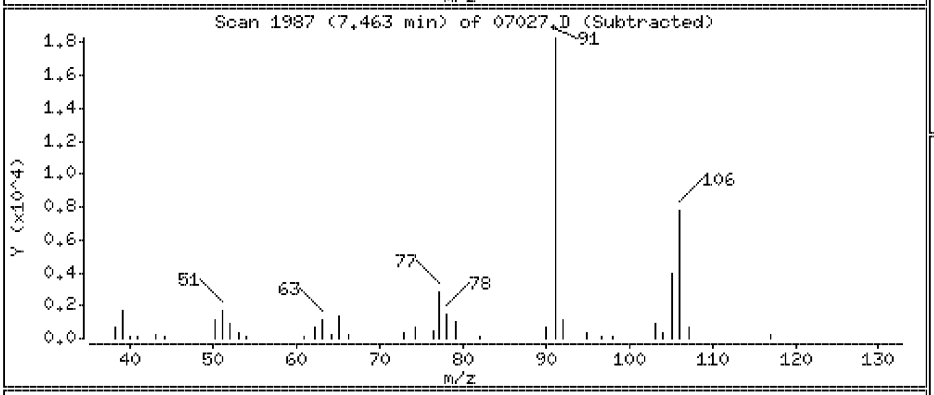
Column diameter: 0.32

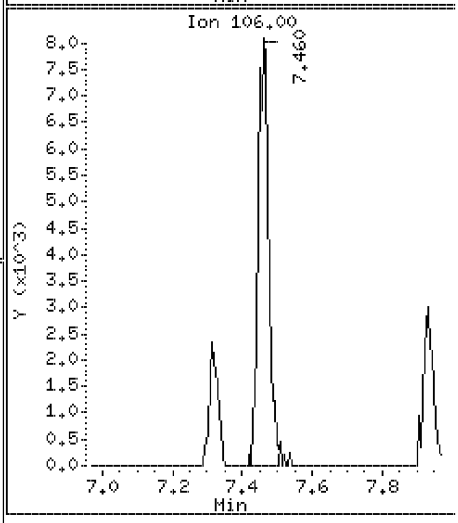
70 m&p-Xylene

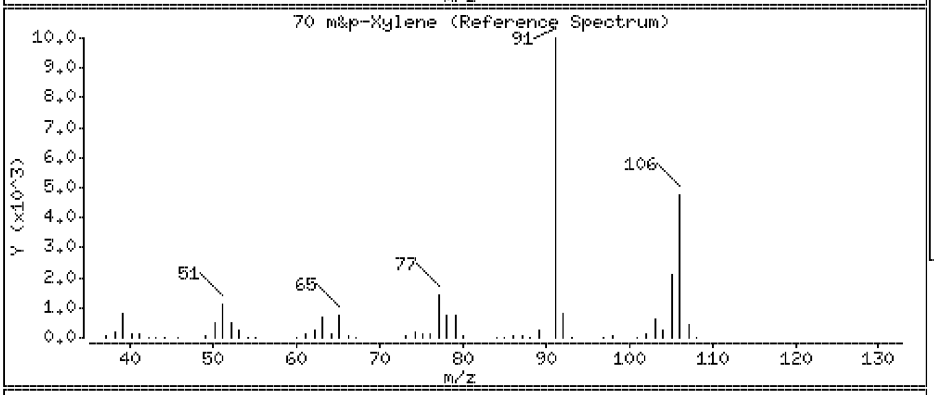
Concentration: 0.511 ppbv

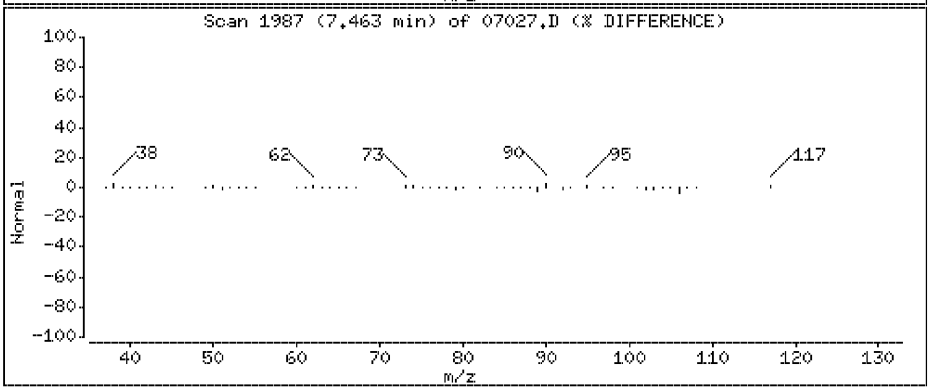












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

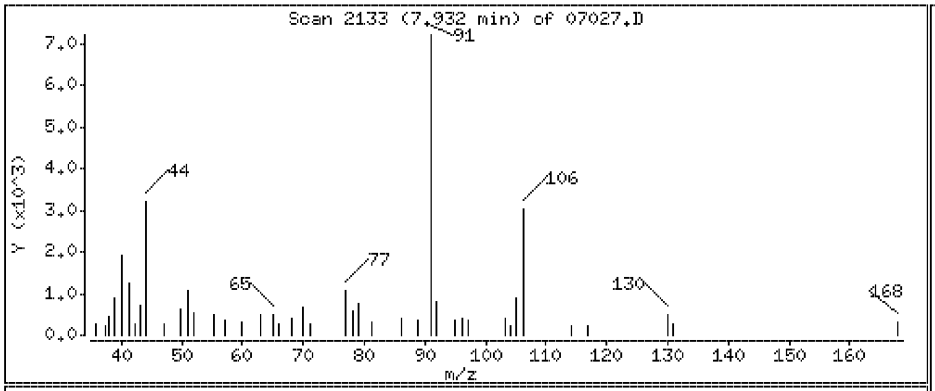
Operator: DR1

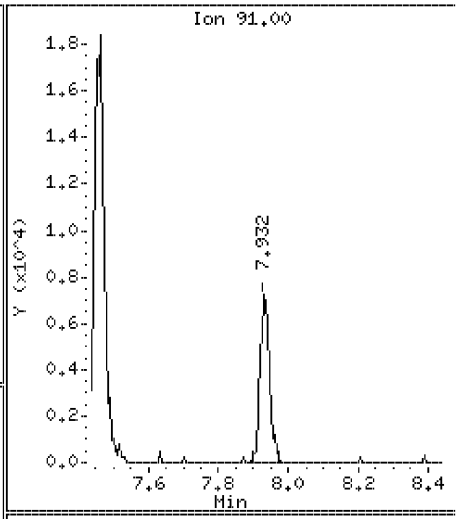
Column phase: J&W DB-5

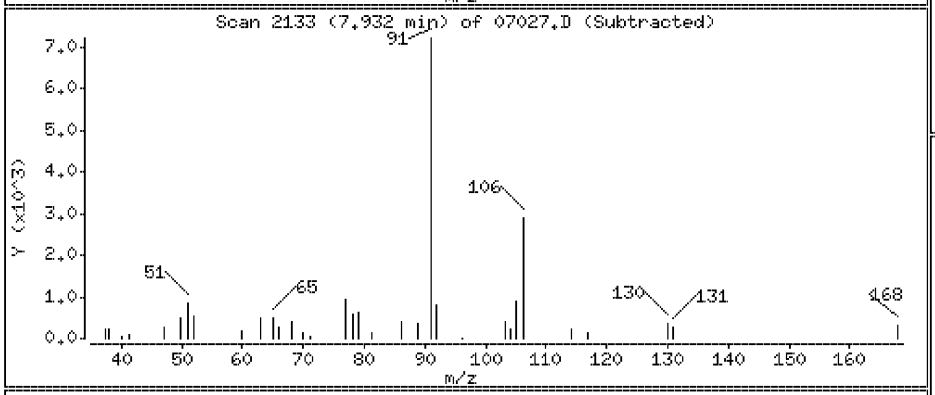
Column diameter: 0.32

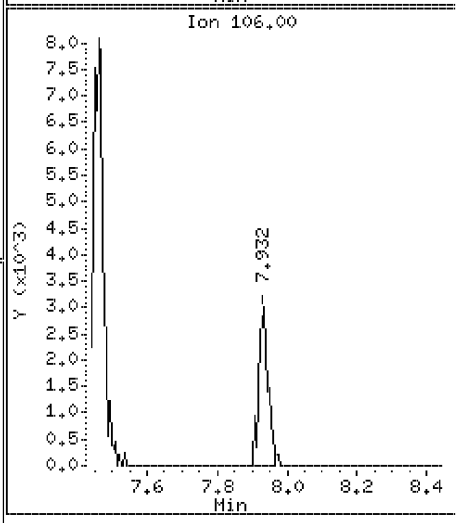
74 o-Xylene

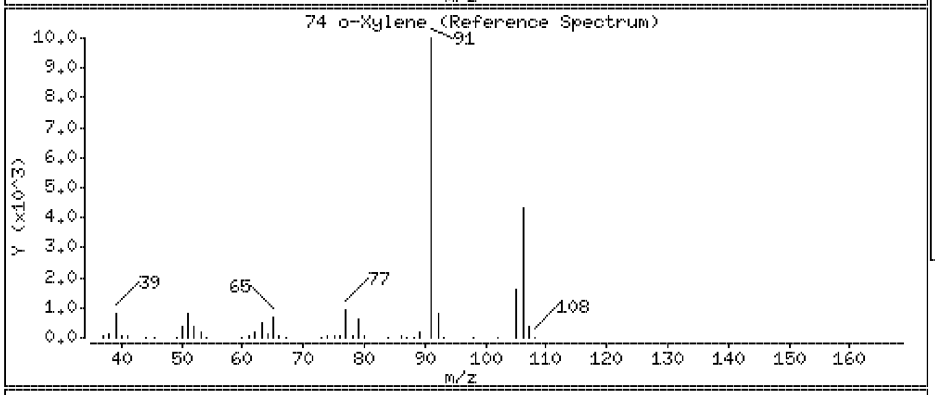
Concentration: 0.255 ppbv

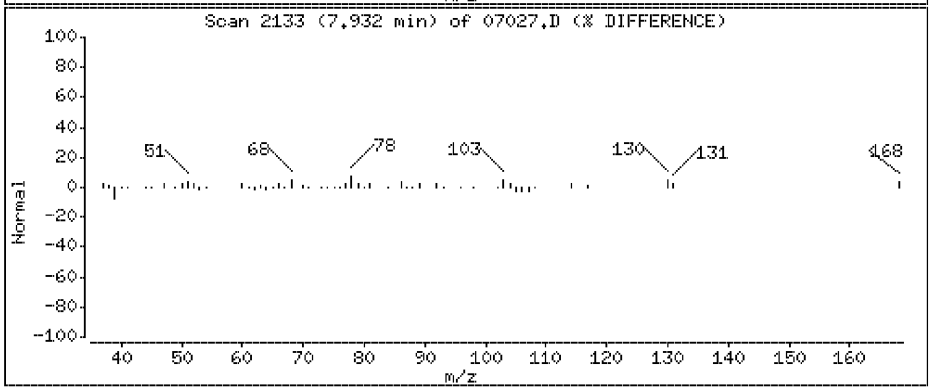












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

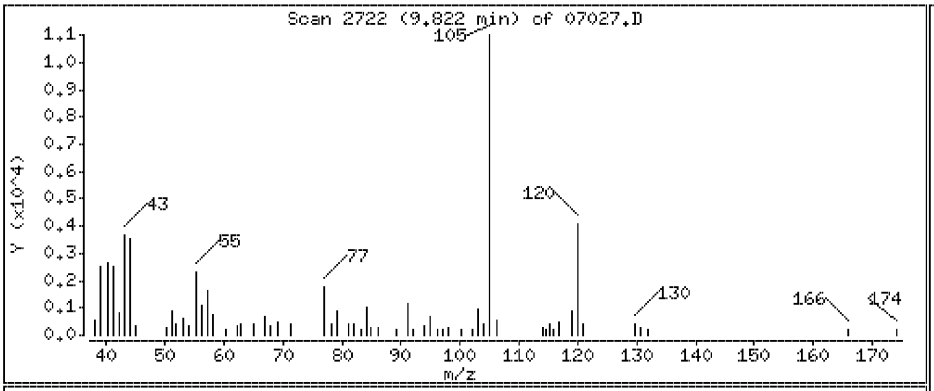
Operator: DR1

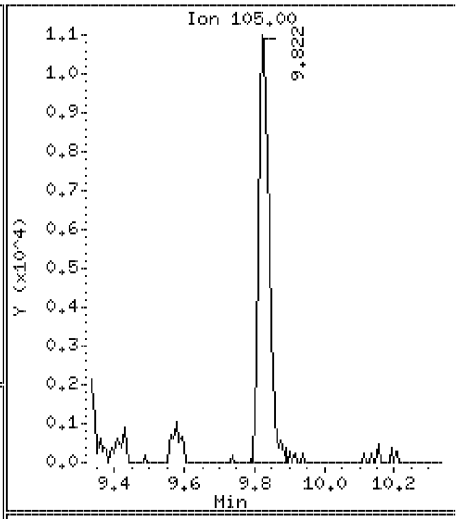
Column phase: J&W DB-5

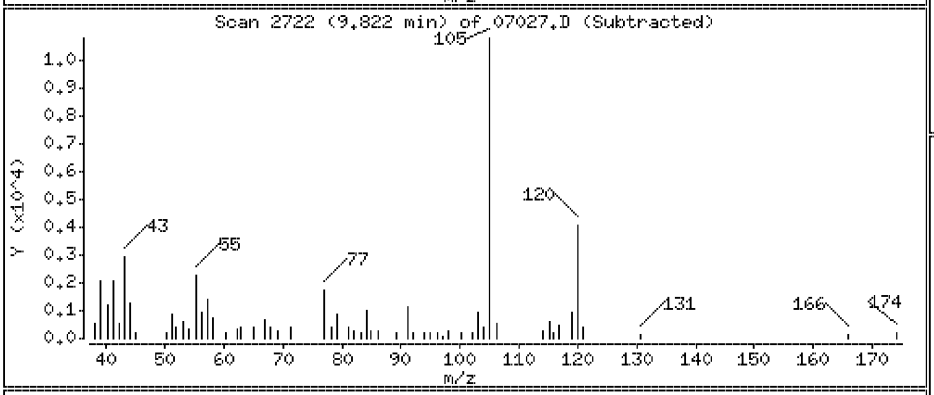
Column diameter: 0.32

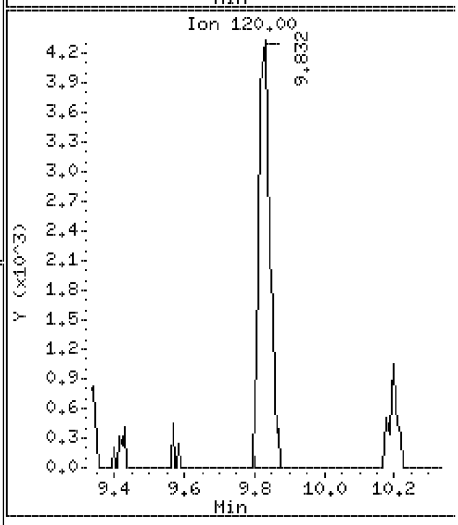
82 1,2,4-Trimethylbenzene

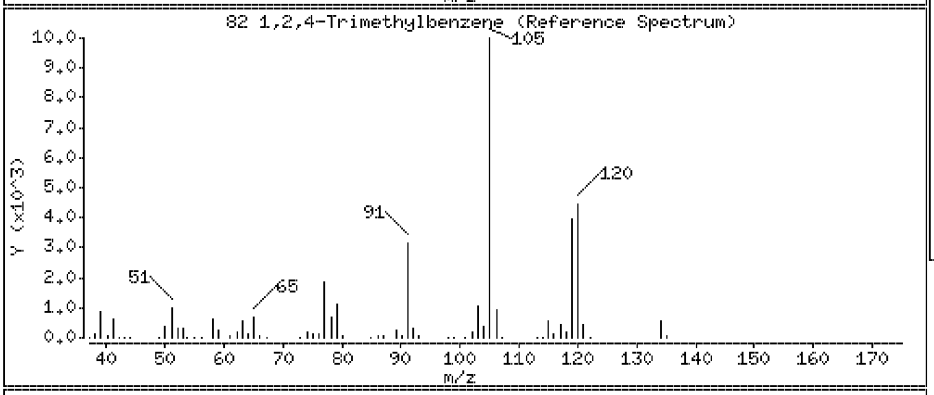
Concentration: 0.255 ppbv

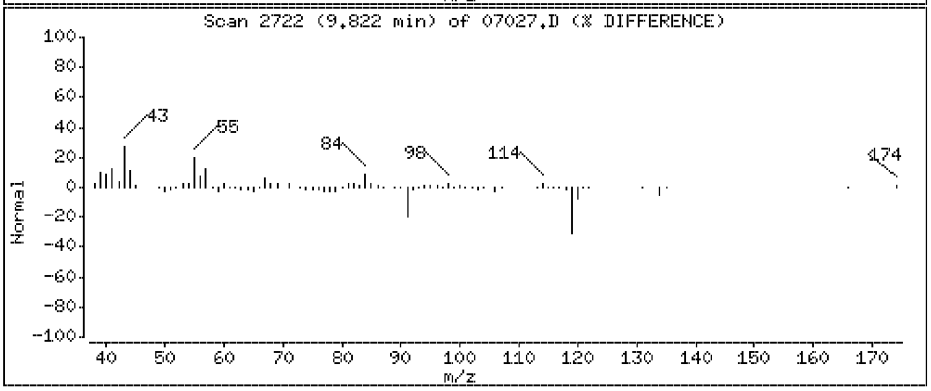












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07027.D

Date : 11-MAR-2017 23:46

Client ID:

Instrument: 10airD.i

Sample Info:

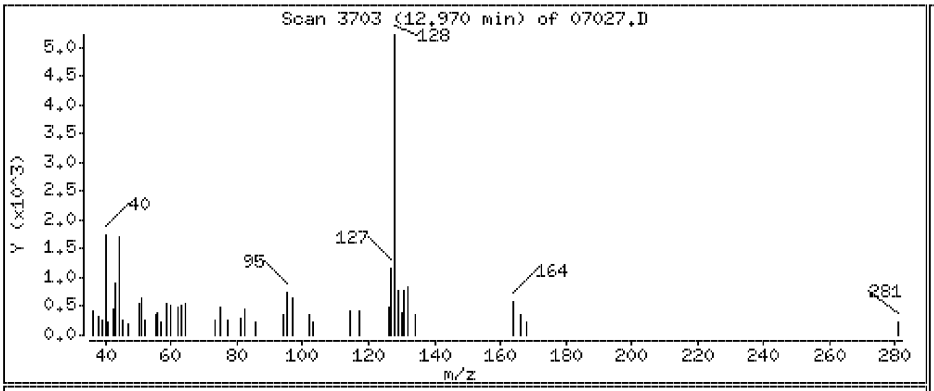
Operator: DR1

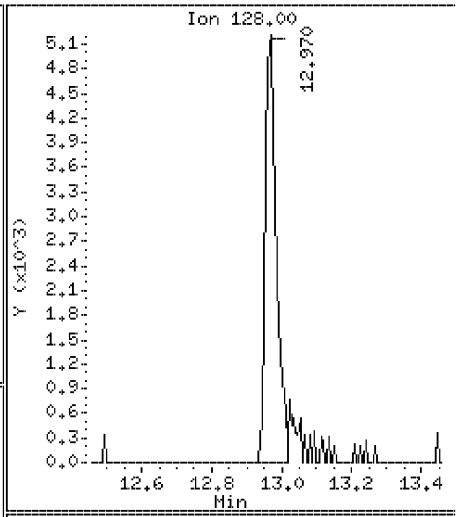
Column phase: J&W DB-5

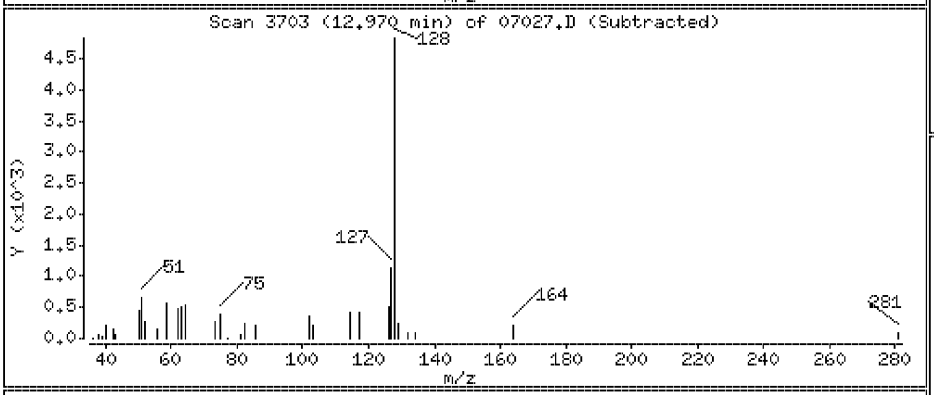
Column diameter: 0.32

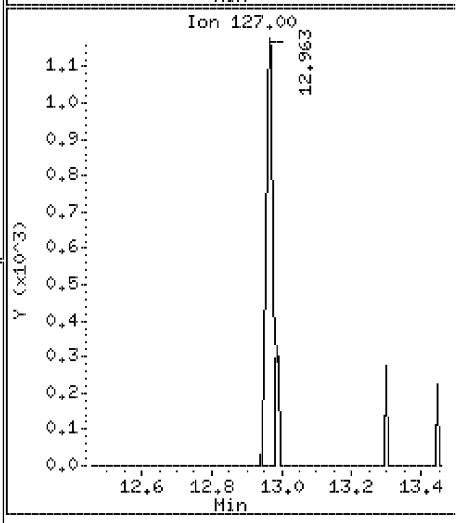
94 Naphthalene

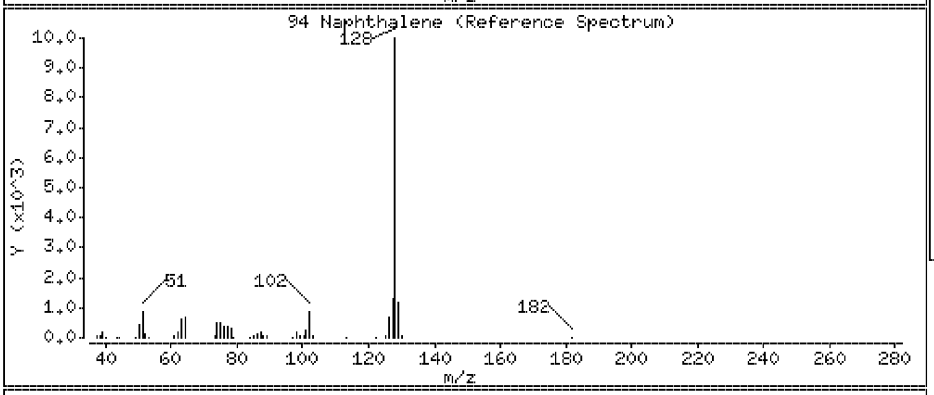
Concentration: 0.744 ppbv

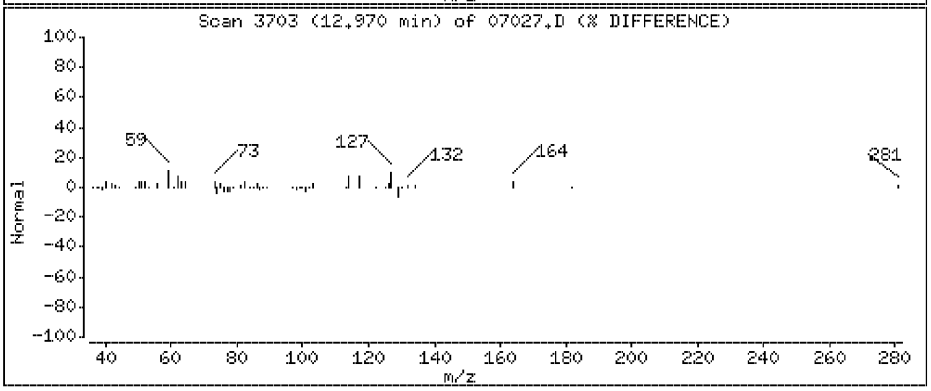






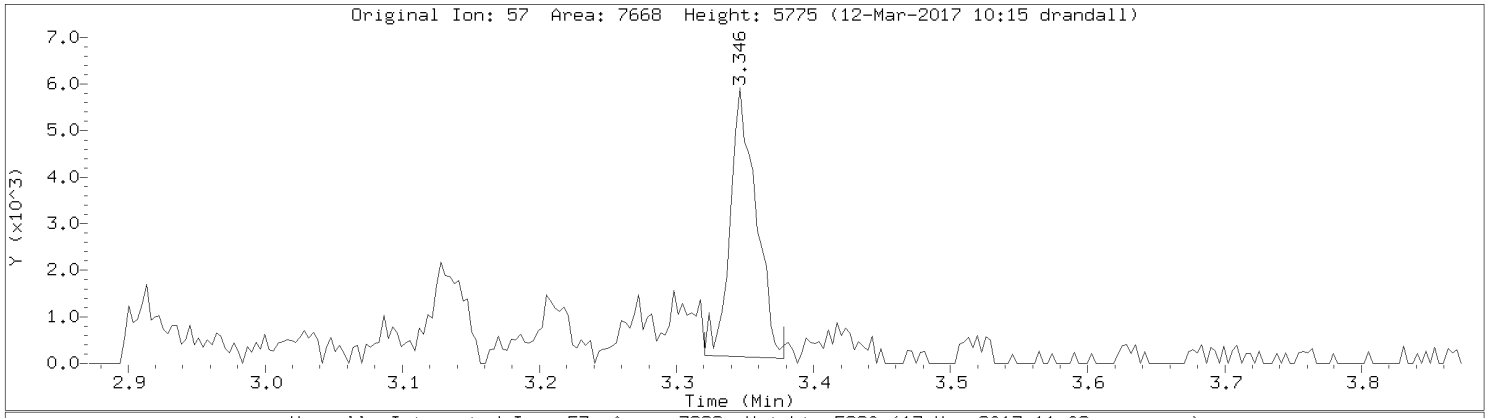


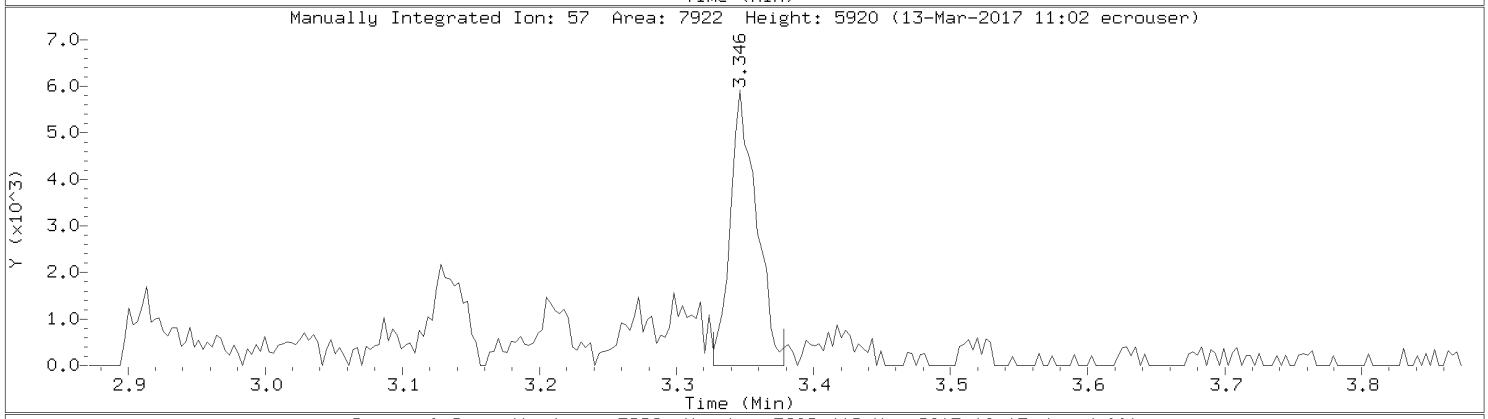


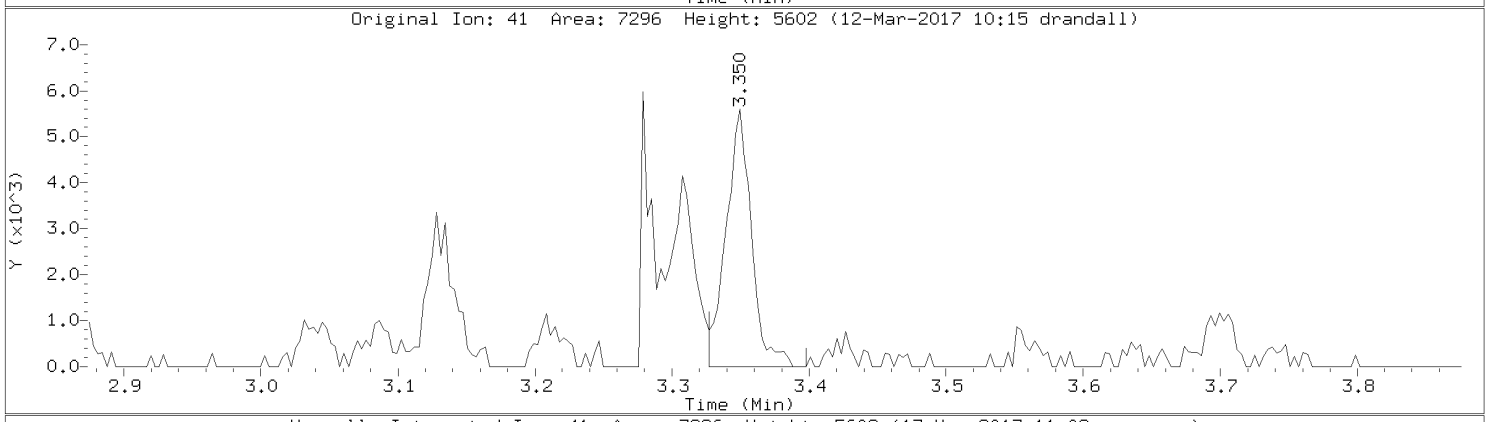


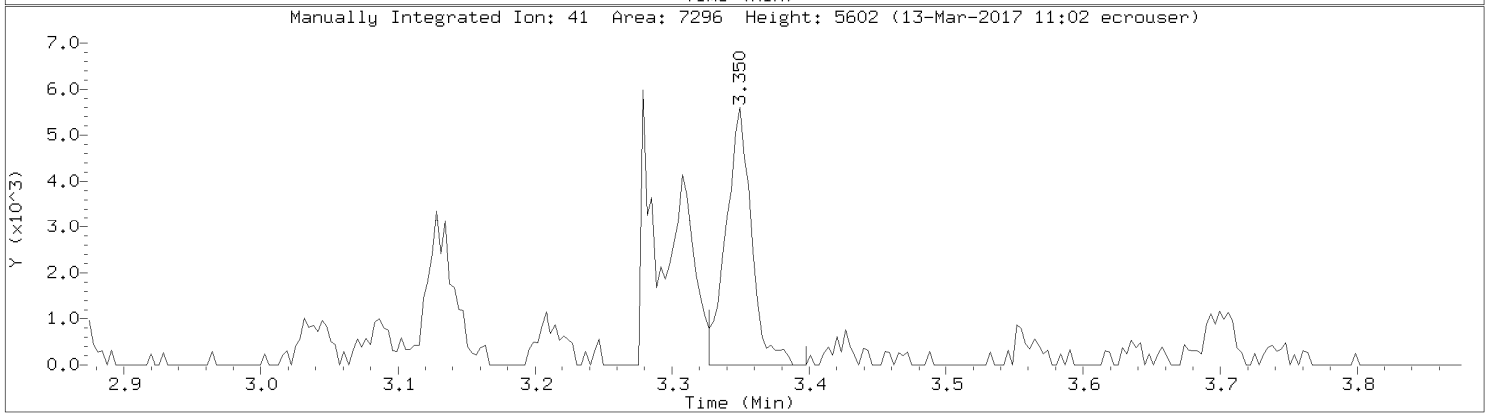
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07027.d
Injection Date: 11-MAR-2017 23:46
Instrument: 10airD.i
Lab Sample ID: 10380372019

Compound: n-Hexane
CAS Number: 110-54-3

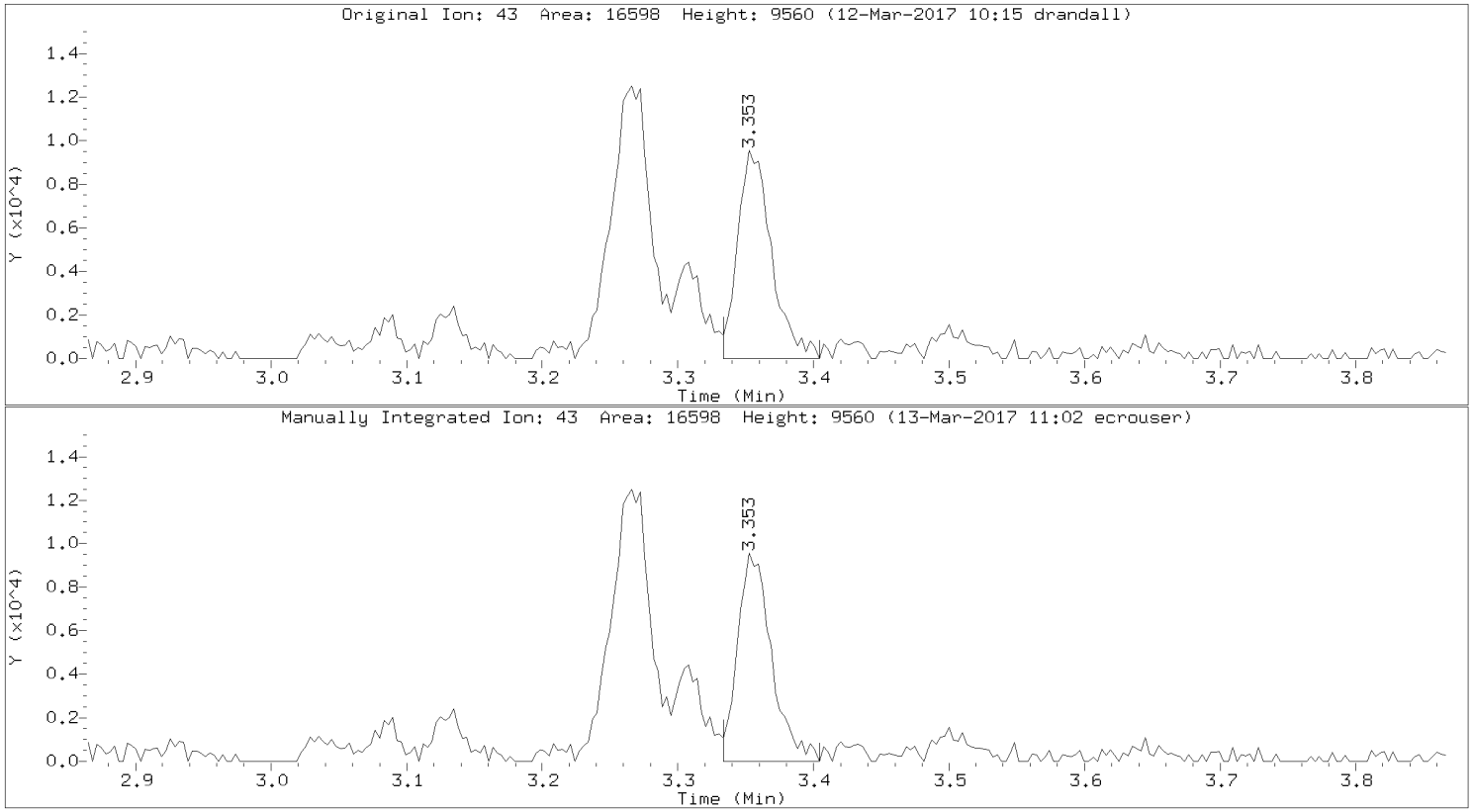






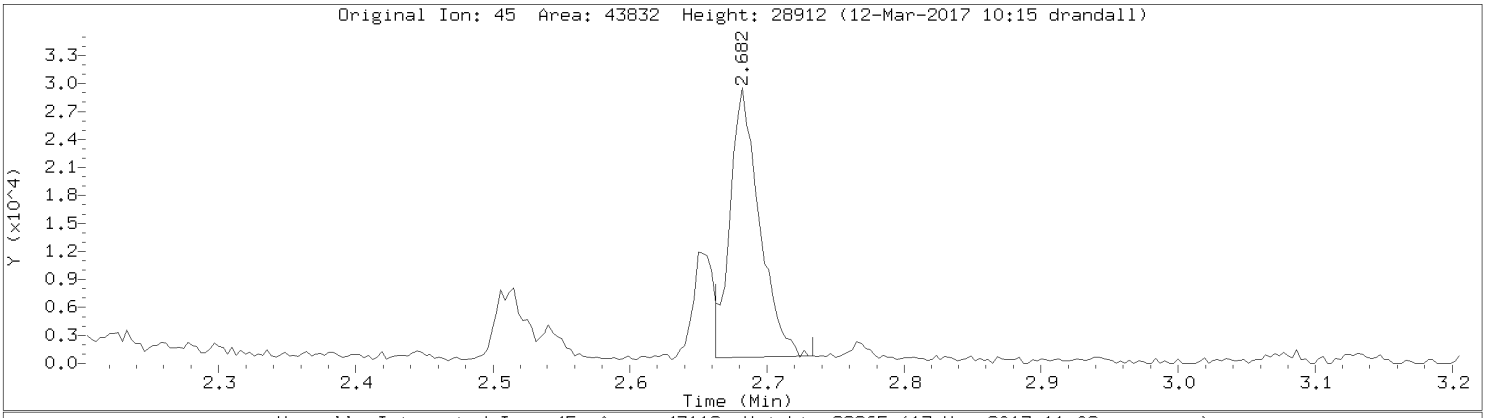


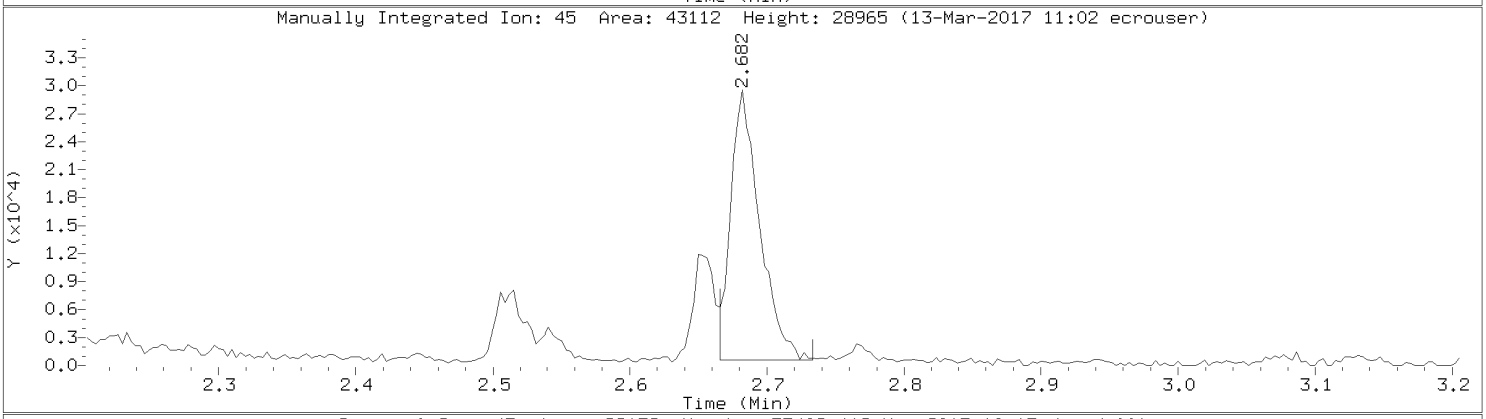
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07027.d
Injection Date: 11-MAR-2017 23:46
Instrument: 10airD.i
Lab Sample ID: 10380372019

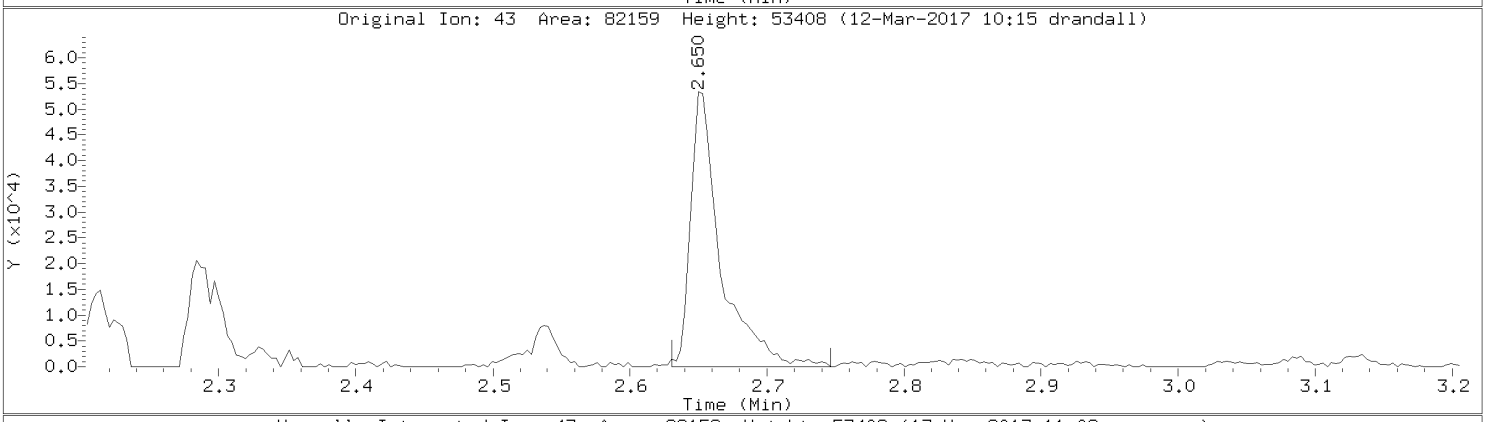


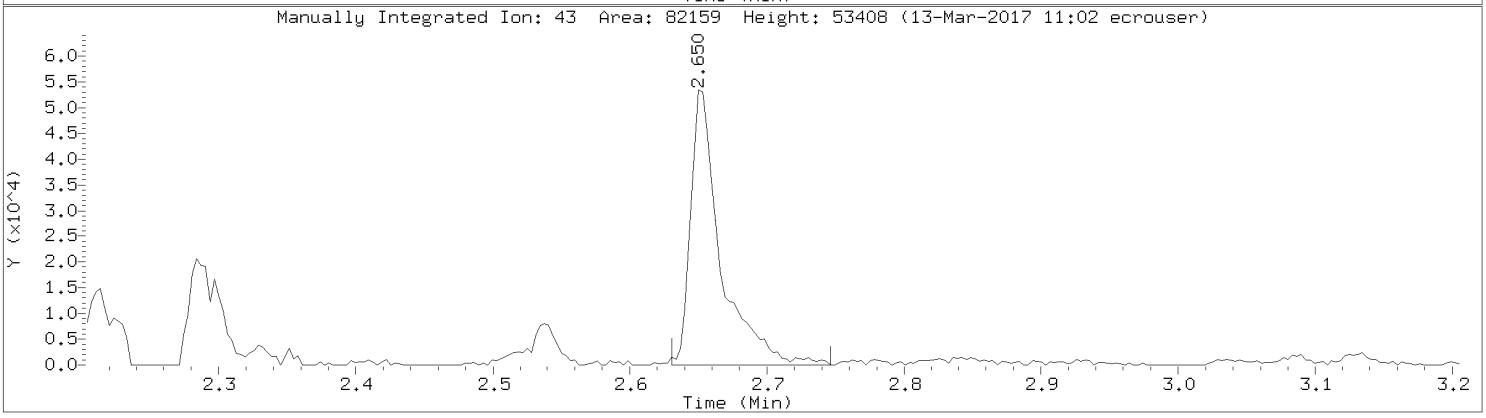
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07027.d
Injection Date: 11-MAR-2017 23:46
Instrument: 10airD.i
Lab Sample ID: 10380372019

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Data File: \\192.168.10.12\chem\10airD.i\031217.b\07117.d
Report Date: 13-Mar-2017 07:45

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031217.b\07117.d
Lab Smp Id: 10380372019
Inj Date : 12-MAR-2017 17:38
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Meth Date : 13-Mar-2017 07:39 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 17
Dil Factor: 140.00000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	140.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	25 Methylene chloride	49	2.865	2.871	(0.676)	12521	0.10670	14.9
$	32 Hexane-d14(S)	66	3.263	3.272	(0.770)	1292614	8.79043	8.79
	36 cis-1,2-Dichloroethene	96	3.455	3.471	(0.815)	7611	0.37243	52.1
*	47 1,4-Difluorobenzene	114	4.238	4.251	(1.000)	2769867	10.0000	
	51 Trichloroethene	130	4.562	4.575	(1.076)	106573	3.18524	446
$	59 Toluene-d8 (S)	98	5.557	5.566	(1.311)	2553407	9.19994	9.20
	66 Tetrachloroethene	166	6.401	6.407	(0.911)	94205	2.23157	312
*	67 Chlorobenzene - d5	117	7.027	7.033	(1.000)	1909533	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	10.194	10.200	(1.451)	1057319	9.03733	9.04

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07117.d
Report Date: 13-Mar-2017 07:45

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07117.d
Lab Smp Id: 10380372019
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 12-MAR-2017
Calibration Time: 10:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	2769867	-26.87
67 Chlorobenzene - d	3280875	1968525	4593225	1909533	-41.80 <-

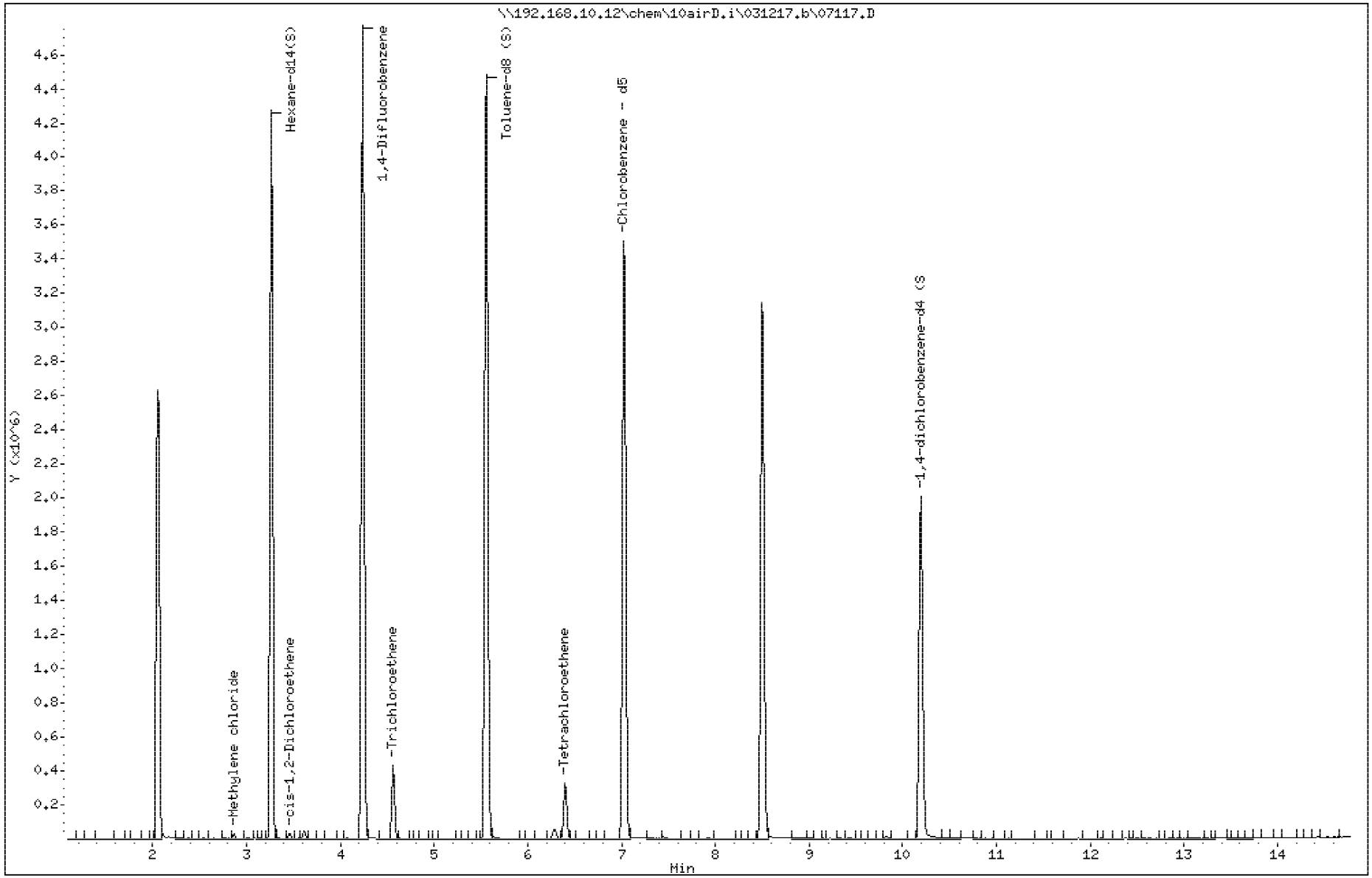
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.30
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07117.D
Date : 12-MAR-2017 17:38
Client ID:
Sample Info:

Instrument: 10airD.i

Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07117.D

Date : 12-MAR-2017 17:38

Client ID:

Instrument: 10airD.i

Sample Info:

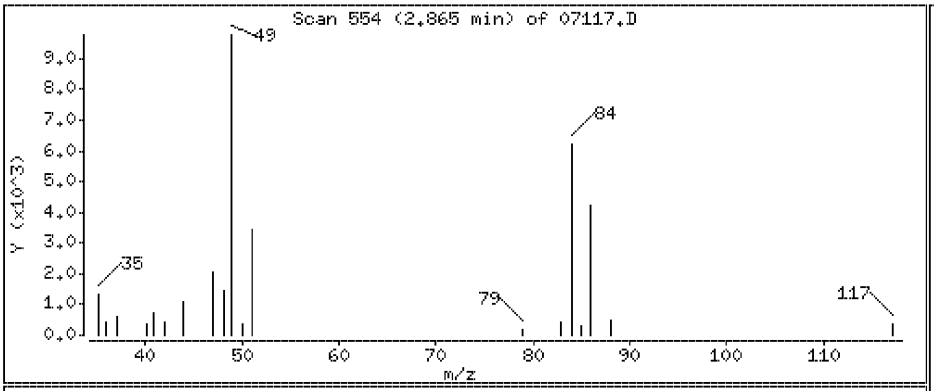
Operator: EMC

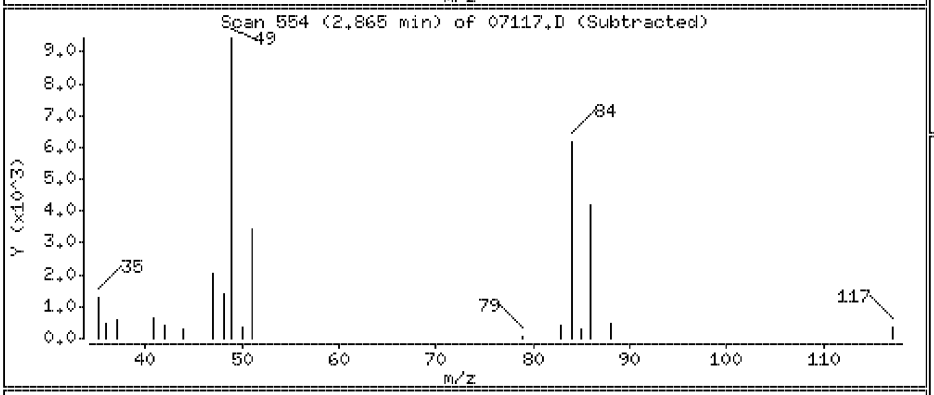
Column phase: J&W DB-5

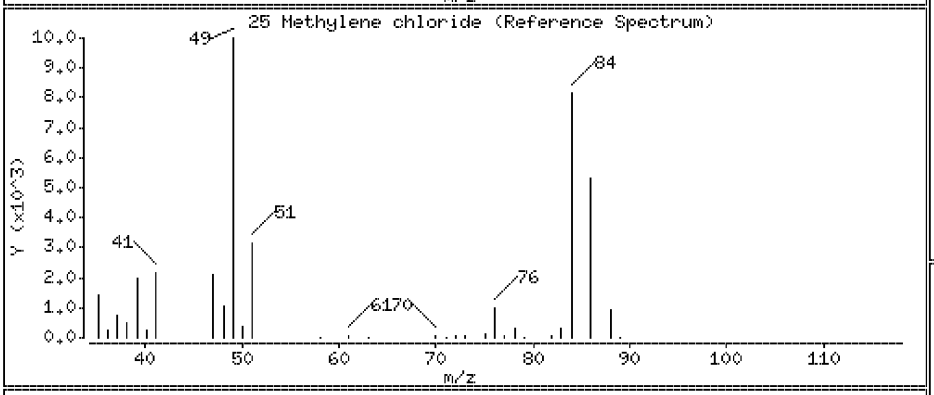
Column diameter: 0.32

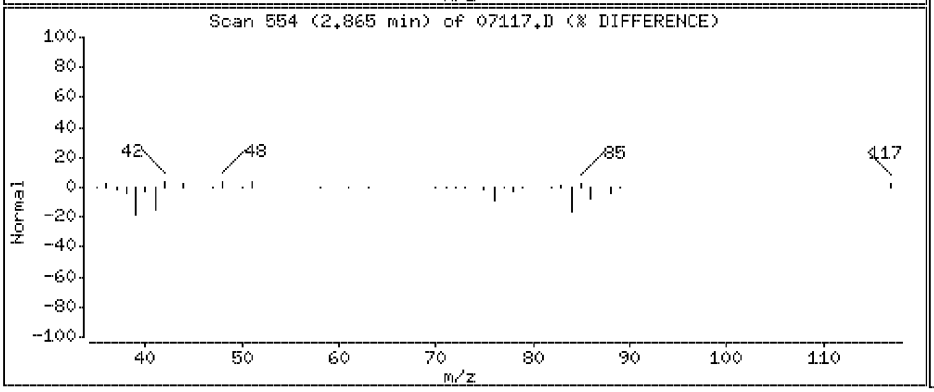
25 Methylene chloride

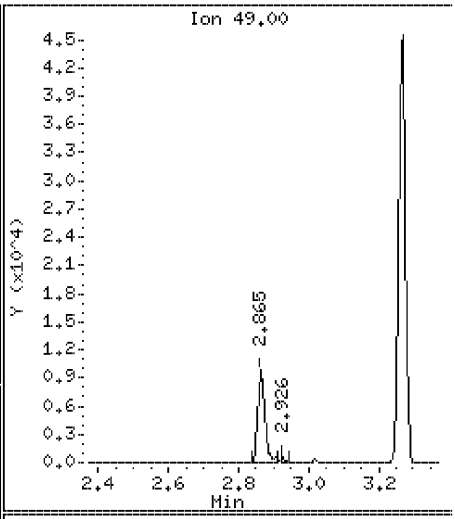
Concentration: 14.9 ppbv

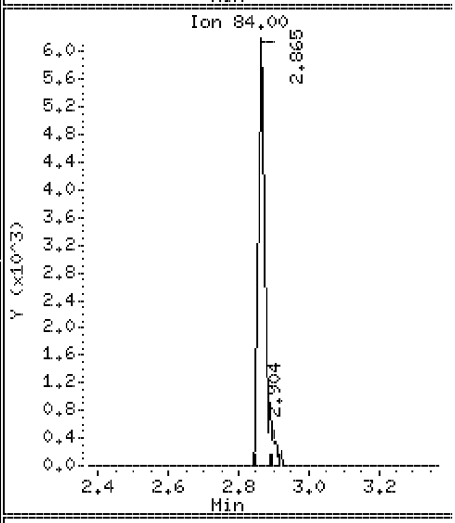


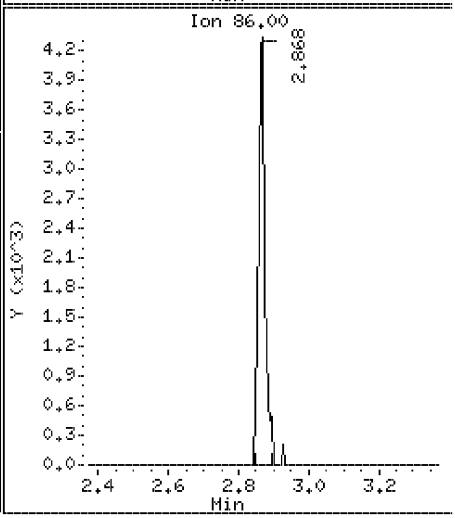












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07117.D

Date : 12-MAR-2017 17:38

Client ID:

Instrument: 10airD.i

Sample Info:

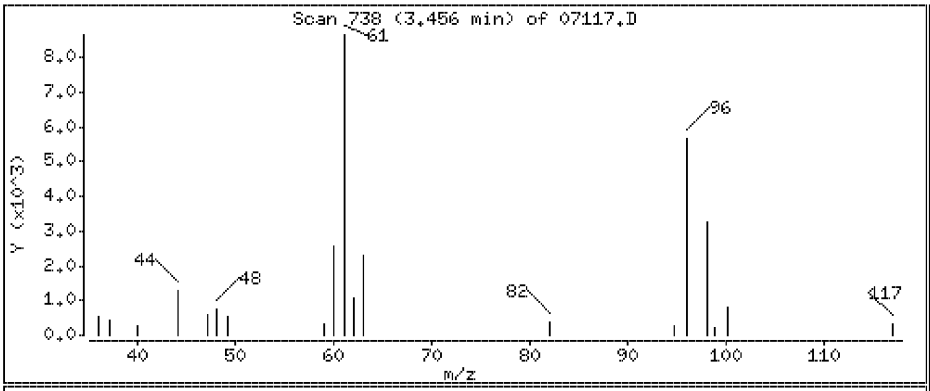
Operator: EMC

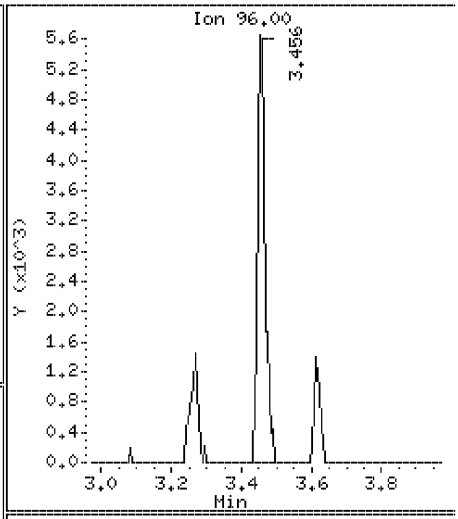
Column phase: J&W DB-5

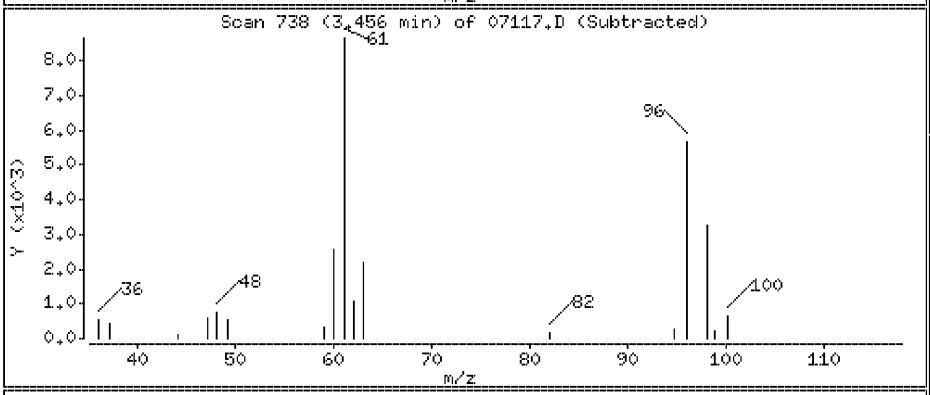
Column diameter: 0.32

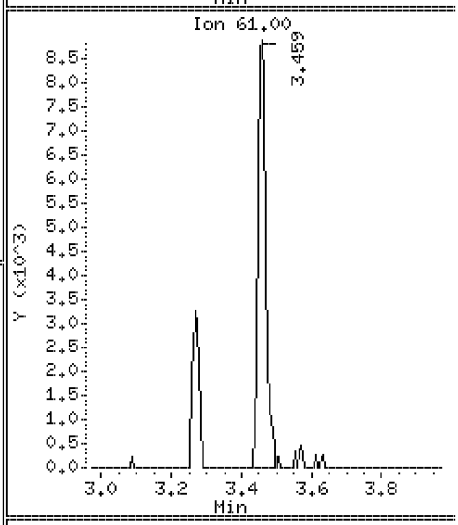
36 cis-1,2-Dichloroethene

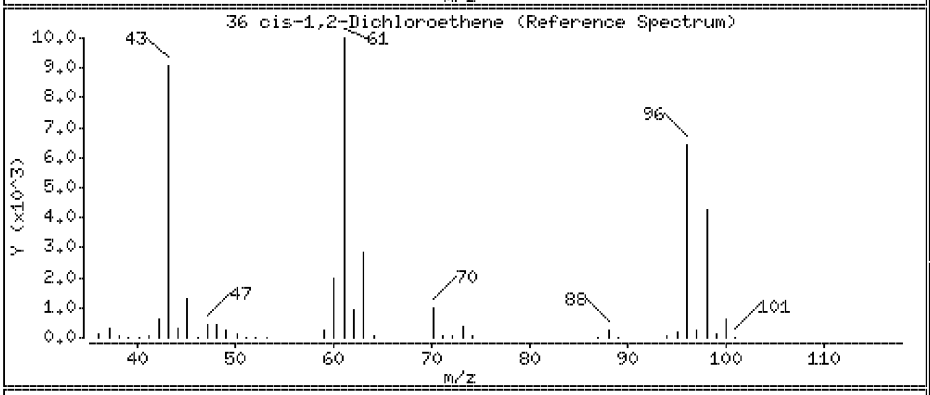
Concentration: 52.1 ppbv

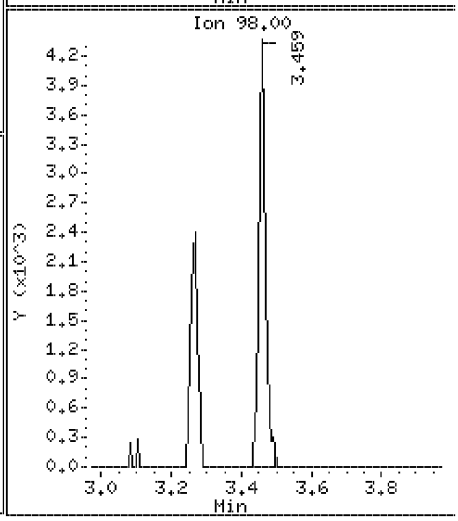


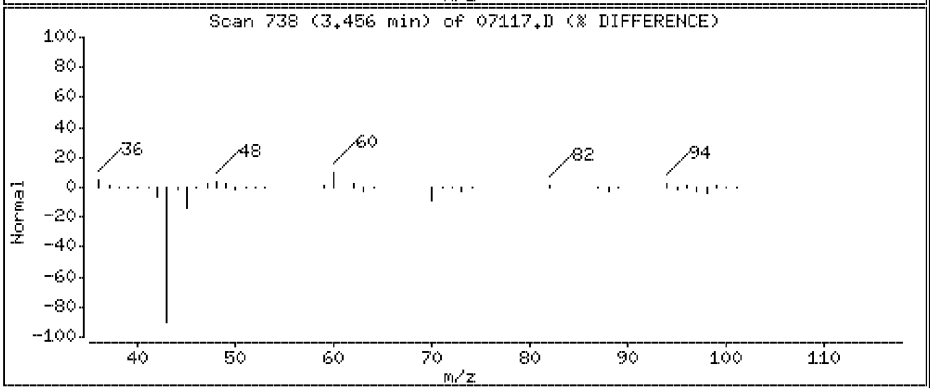












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07117.D

Date : 12-MAR-2017 17:38

Client ID:

Instrument: 10airD.i

Sample Info:

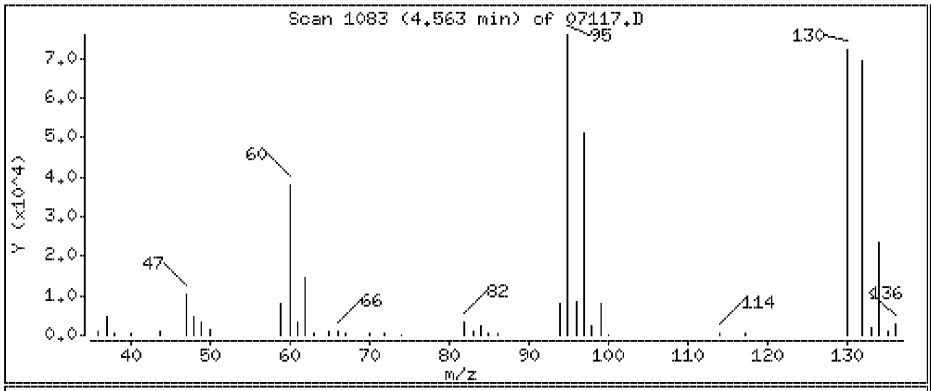
Operator: EMC

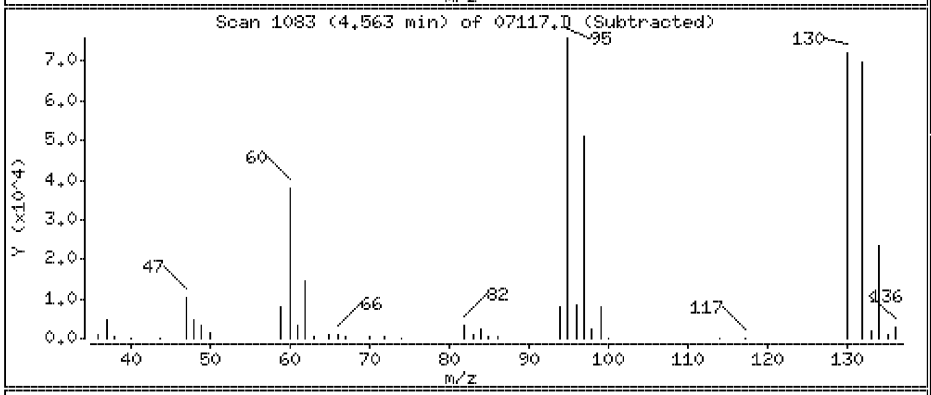
Column phase: J&W DB-5

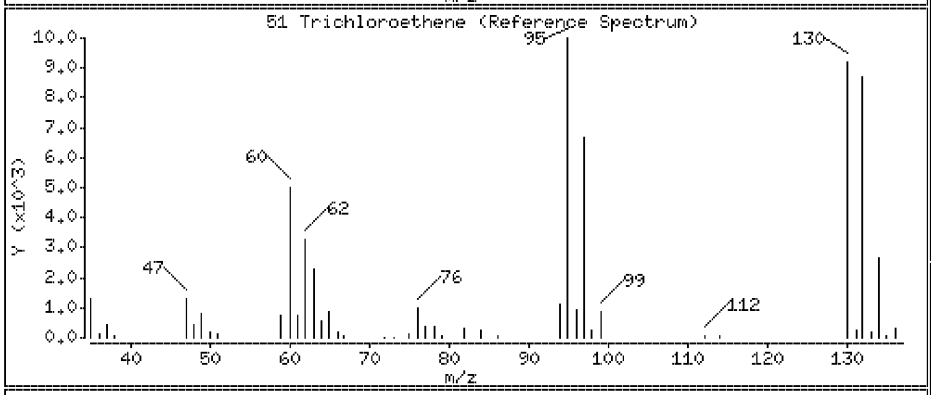
Column diameter: 0.32

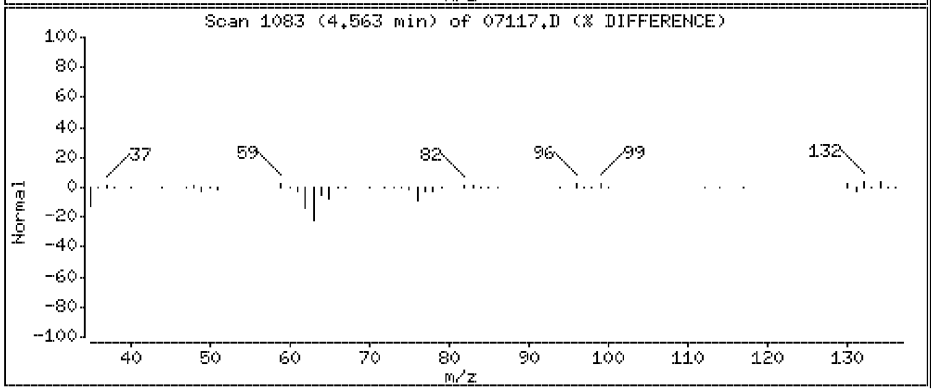
51 Trichloroethene

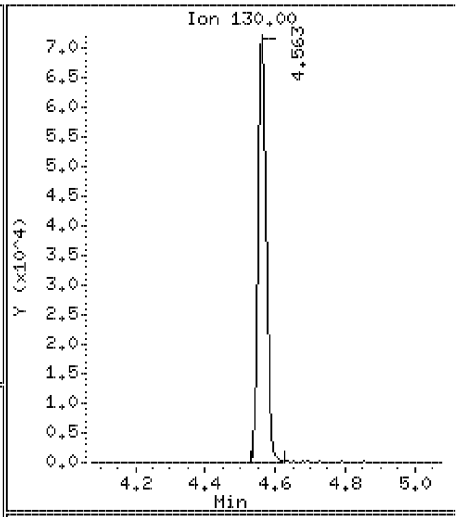
Concentration: 446 ppbv

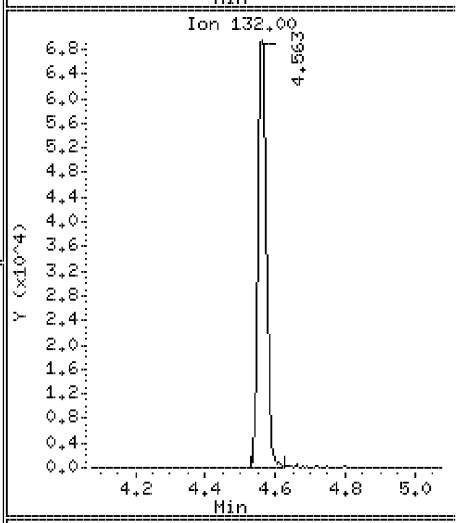


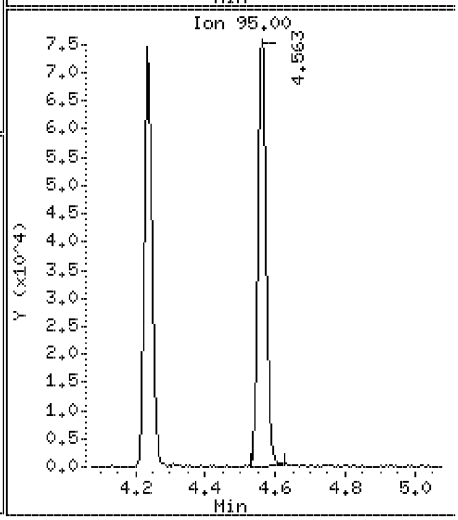












Data File: \\192.168.10.12\chem\10airD.i\031217.b\07117.D

Date : 12-MAR-2017 17:38

Client ID:

Instrument: 10airD.i

Sample Info:

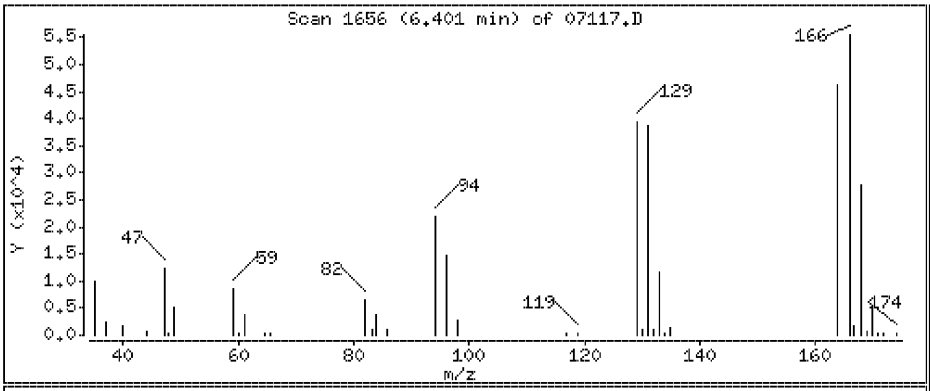
Operator: EMC

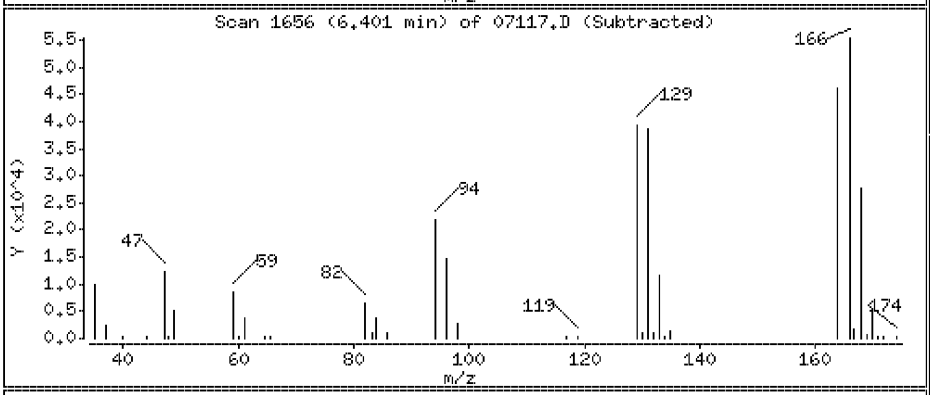
Column phase: J&W DB-5

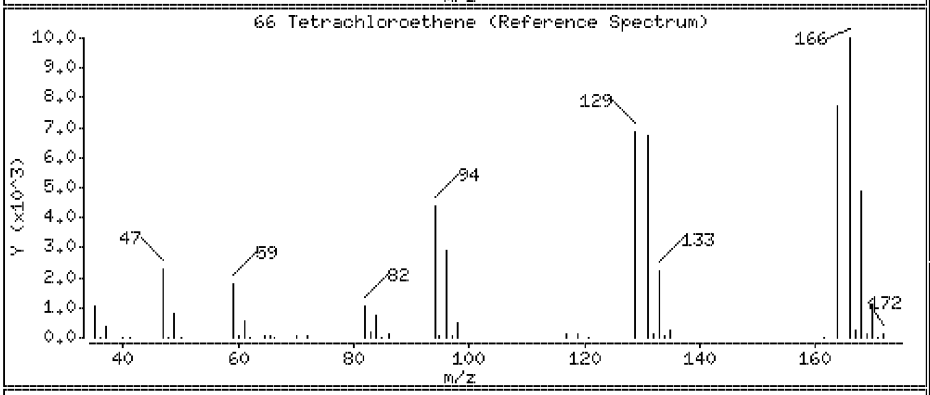
Column diameter: 0.32

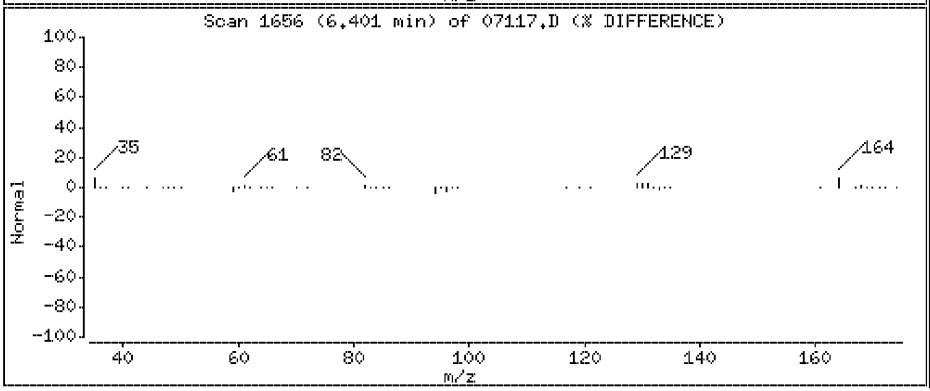
66 Tetrachloroethene

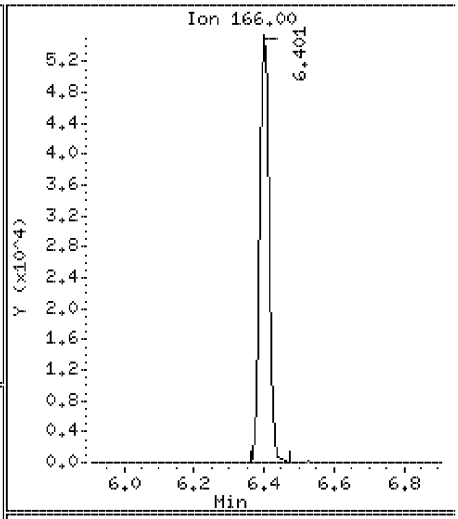
Concentration: 312 ppbv

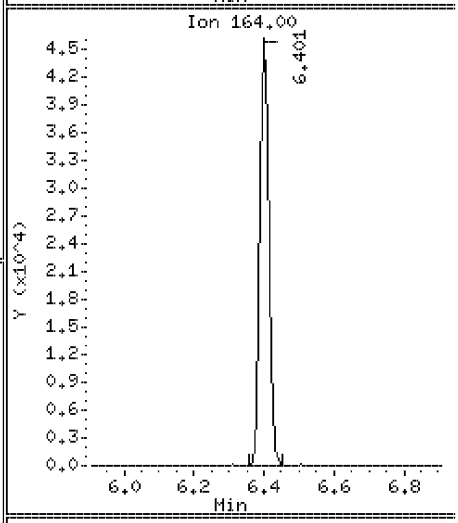


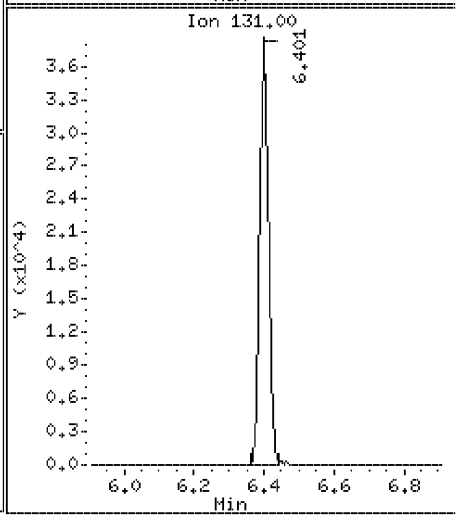












Data File: \\192.168.10.12\chem\10airD.i\031217.b/07117.d
Injection Date: 12-MAR-2017 17:38
Instrument: 10airD.i
Lab Sample ID: 10380372019
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_50_20170226 **Lab ID: 10380372019** Collected: 02/26/17 13:35 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**7.4**	ug/m3	4.4	0.42	1.75		03/11/17 23:46	67-63-0	
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/11/17 23:46	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/11/17 23:46	79-34-5	
Tetrachloroethene	**2150**	ug/m3	96.5	38.9	140		03/12/17 17:38	127-18-4	1M,C0
Toluene	**11.1**	ug/m3	1.3	0.27	1.75		03/11/17 23:46	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/11/17 23:46	120-82-1	
1,1,1-Trichloroethane	**2.0**	ug/m3	1.9	0.43	1.75		03/11/17 23:46	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/11/17 23:46	79-00-5	
Trichloroethene	**2440**	ug/m3	77.0	38.6	140		03/12/17 17:38	79-01-6	
Trichlorofluoromethane	**2.9**	ug/m3	2.0	0.23	1.75		03/11/17 23:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	**18.3**	ug/m3	2.8	0.53	1.75		03/11/17 23:46	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.22	1.75		03/11/17 23:46	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/11/17 23:46	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/11/17 23:46	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.1	1.4	1.75		03/11/17 23:46	179601-23-1	
o-Xylene	**1.1J**	ug/m3	1.5	0.61	1.75		03/11/17 23:46	95-47-6	

Sample: LIJ-VP-7_50_20170226DUP **Lab ID: 10380372020** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**19.8**	ug/m3	10.6	1.5	1.75		03/12/17 00:14	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/12/17 00:14	107-05-1	
Benzene	**0.52J**	ug/m3	0.57	0.21	1.75		03/12/17 00:14	71-43-2	
Bromodichloromethane	**0.34U**	ug/m3	2.4	0.34	1.75		03/12/17 00:14	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/12/17 00:14	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/12/17 00:14	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/12/17 00:14	106-99-0	
2-Butanone (MEK)	**3.0J**	ug/m3	5.2	0.40	1.75		03/12/17 00:14	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/12/17 00:14	75-15-0	
Carbon tetrachloride	**0.34U**	ug/m3	1.1	0.34	1.75		03/12/17 00:14	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/12/17 00:14	108-90-7	
Chlorodifluoromethane	**37.0**	ug/m3	1.3	0.48	1.75		03/12/17 00:14	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/12/17 00:14	75-00-3	
Chloroform	**0.33U**	ug/m3	0.87	0.33	1.75		03/12/17 00:14	67-66-3	
Chloromethane	**0.95**	ug/m3	0.74	0.19	1.75		03/12/17 00:14	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/12/17 00:14	76-15-3	CL
Cyclohexane	**0.69J**	ug/m3	1.2	0.55	1.75		03/12/17 00:14	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/12/17 00:14	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/12/17 00:14	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/12/17 00:14	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/12/17 00:14	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/12/17 00:14	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_50_20170226DUP **Lab ID: 10380372020** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/12/17 00:14	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	0.84	1.75		03/12/17 00:14	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/12/17 00:14	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/12/17 00:14	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/12/17 00:14	75-35-4	
cis-1,2-Dichloroethene	**0.43U**	ug/m3	1.4	0.43	1.75		03/12/17 00:14	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/12/17 00:14	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/12/17 00:14	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/12/17 00:14	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/12/17 00:14	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/12/17 00:14	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/12/17 00:14	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/12/17 00:14	123-91-1	
Ethylbenzene	**3.3**	ug/m3	1.5	0.74	1.75		03/12/17 00:14	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/12/17 00:14	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/12/17 00:14	87-68-3	
n-Hexane	**1.4**	ug/m3	1.3	0.62	1.75		03/12/17 00:14	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/12/17 00:14	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/12/17 00:14	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/12/17 00:14	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/12/17 00:14	108-87-2	
Methylene Chloride	**11.9**	ug/m3	6.2	0.95	1.75		03/12/17 00:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/12/17 00:14	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/12/17 00:14	1634-04-4	
2-Propanol	**31.5**	ug/m3	4.4	0.42	1.75		03/12/17 00:14	67-63-0	
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/12/17 00:14	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/12/17 00:14	79-34-5	
Tetrachloroethene	**0.49U**	ug/m3	1.2	0.49	1.75		03/12/17 14:10	127-18-4	
Toluene	**2.7**	ug/m3	1.3	0.27	1.75		03/12/17 00:14	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/12/17 00:14	120-82-1	
1,1,1-Trichloroethane	**0.43U**	ug/m3	1.9	0.43	1.75		03/12/17 00:14	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/12/17 00:14	79-00-5	
Trichloroethene	**0.48U**	ug/m3	0.96	0.48	1.75		03/12/17 14:10	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.0	0.23	1.75		03/12/17 00:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.53U**	ug/m3	2.8	0.53	1.75		03/12/17 00:14	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	1.7	0.22	1.75		03/12/17 00:14	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/12/17 00:14	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/12/17 00:14	75-01-4	
m&p-Xylene	**11.5**	ug/m3	3.1	1.4	1.75		03/12/17 00:14	179601-23-1	
o-Xylene	**3.1**	ug/m3	1.5	0.61	1.75		03/12/17 00:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.d
Report Date: 12-Mar-2017 10:54

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07028.d
Lab Smp Id: 10380372020
Inj Date : 12-MAR-2017 00:14
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 28
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.120	2.155	(0.500)	43123	5.88449	10.3(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.146	2.165	(0.506)	23086	0.34593	0.605	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	2.220	2.235	(0.524)	8119	0.25941	0.454	
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.499	2.521	(0.590)	43066	9.24111	16.2	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	2.537	2.592	(0.599)	31997	1.10027	1.93(QH)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.595	2.614	(0.612)	11681	0.16731	0.293	
17	Acrolein	56	2.611	2.624	(0.616)	957	0.52298	0.915(Q)	
18	Acetone	43	2.637	2.653	(0.622)	199776	4.69591	8.22	
19	Isopropyl Alcohol	45	2.669	2.688	(0.630)	170301	7.20213	12.6(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.d
Report Date: 12-Mar-2017 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						(D)
	25 Methylene chloride	49	2.861	2.871	(0.675)	69595	1.92660	3.37	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.266	3.275	(0.771)	1471520	9.13151	9.13	
	33 Methyl Ethyl Ketone	72	3.346	3.359	(0.790)	5506	0.57051	0.998(Q)	
	34 n-Hexane	57	3.346	3.352	(0.790)	7677	0.22001	0.385(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	37 Ethyl Acetate	43	3.481	3.490	(0.821)	19654	0.35203	0.616(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	3.715	3.724	(0.877)	5429	0.19268	0.337	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.097	4.100	(0.967)	6060	0.09072	0.159	
	45 Carbon tetrachloride	117	Compound Not Detected.						(D)
	44 Cyclohexane	56	4.119	4.126	(0.972)	3884	0.11263	0.197(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.238	4.247	(1.000)	3035456	10.0000		
	48 2,2,4-Trimethylpentane	57	4.360	4.376	(1.029)	6522	158.702	278(AQ)	
	49 Heptane	43	4.479	4.491	(1.057)	6363	0.12202	0.214(Q)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	4.562	4.568	(1.076)	10167	0.27728	0.485	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.563	(1.312)	2853956	9.38312	9.38	
	60 Toluene	91	5.631	5.631	(1.329)	36786	0.40994	0.717	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	5.900	5.887	(0.840)	2766	0.05208	0.0911	
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.404	6.404	(0.911)	13074	0.26574	0.465	
*	67 Chlorobenzene - d5	117	7.027	7.030	(1.000)	2225424	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	41268	0.42263	0.740	
	70 m&p-Xylene	91	7.450	7.460	(1.060)	123456	1.48583	2.60	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	Compound Not Detected.						(D)
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	7.925	7.928	(1.128)	32216	0.40019	0.700	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.d
Report Date: 12-Mar-2017 10:54

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppbv)	(ppbv)	
	78	4-Ethyltoluene	105	Compound Not Detected.						(D)
	79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
	80	n-Decane	57	Compound Not Detected.						(D)
	81	Tert-Butyl Benzene	119	Compound Not Detected.						
	82	1,2,4-Trimethylbenzene	105	9.822	9.825	(1.398)	22903	0.18825	0.329	
	83	1,3-Dichlorobenzene	146	Compound Not Detected.						
	84	Sec- Butylbenzene	105	Compound Not Detected.						
$	85	1,4-dichlorobenzene-d4 (S)	150	10.191	10.194	(1.450)	1201280	8.81034	8.81	
	86	Benzyl Chloride	91	Compound Not Detected.						
	87	1,4-Dichlorobenzene	146	Compound Not Detected.						
	88	p-Isopropyltoluene	119	Compound Not Detected.						
	89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
	90	1,2-Dichlorobenzene	146	Compound Not Detected.						
	91	N-Butylbenzene	91	Compound Not Detected.						
	92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
	93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	94	Naphthalene	128	12.963	12.960	(1.845)	26621	1.14154	2.00	
	95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.d
Report Date: 12-Mar-2017 10:54

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07028.d
Lab Smp Id: 10380372020
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

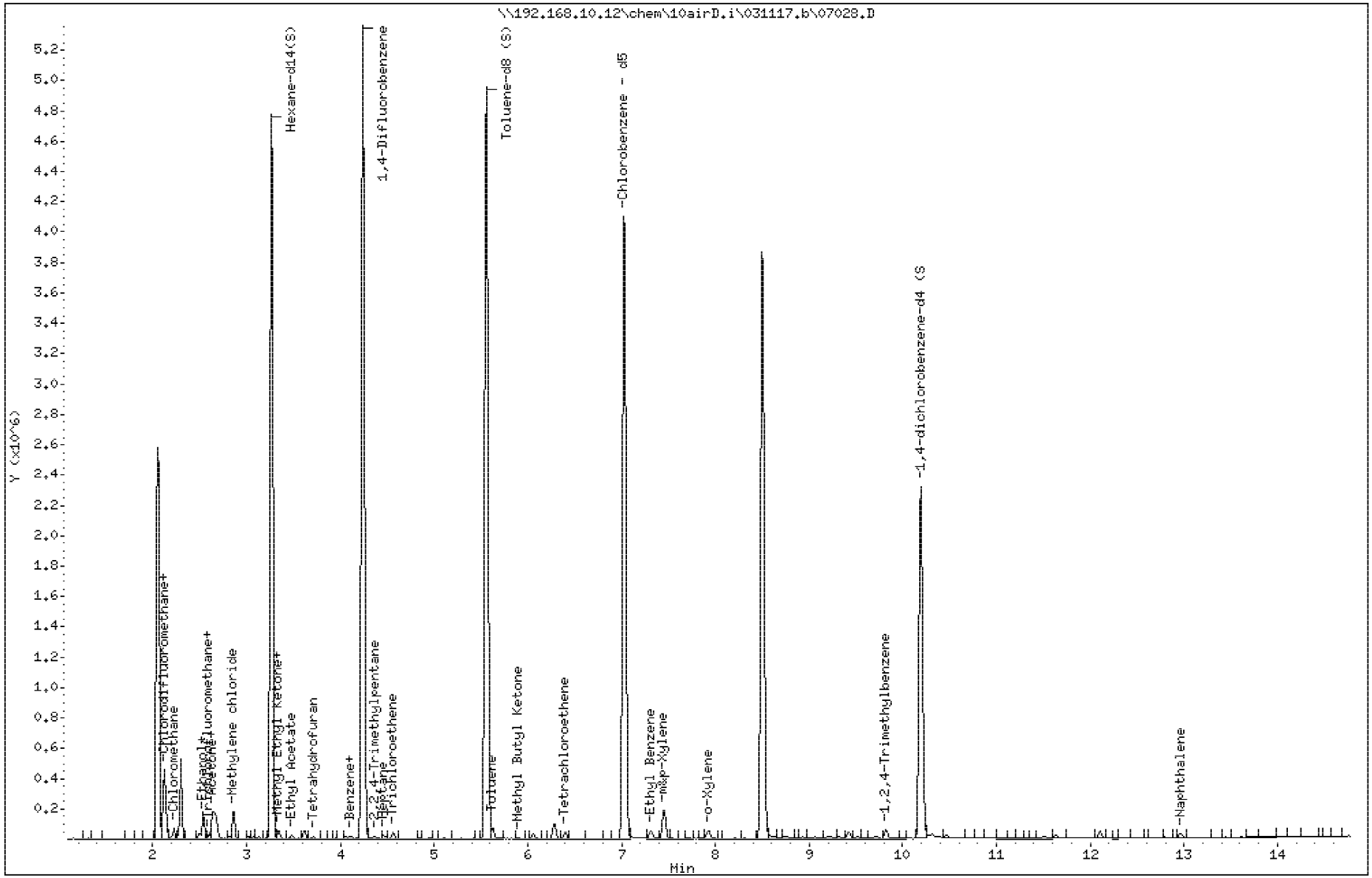
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3035456	-19.86
67 Chlorobenzene - d	3280875	1968525	4593225	2225424	-32.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.22
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D
Date : 12-MAR-2017 00:14
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

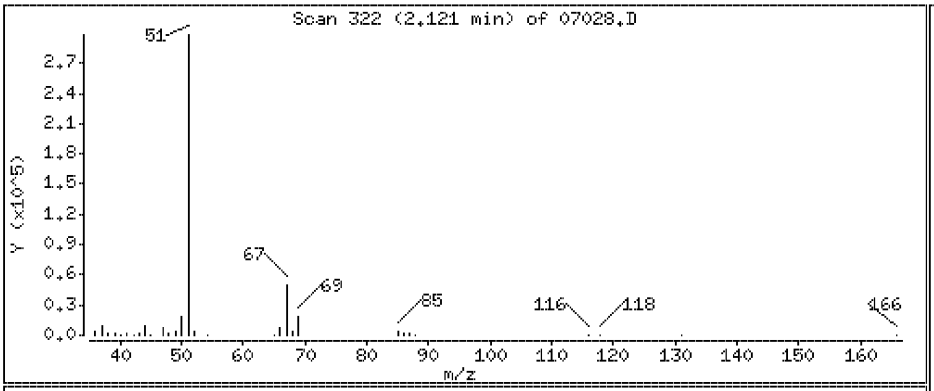
Operator: DR1

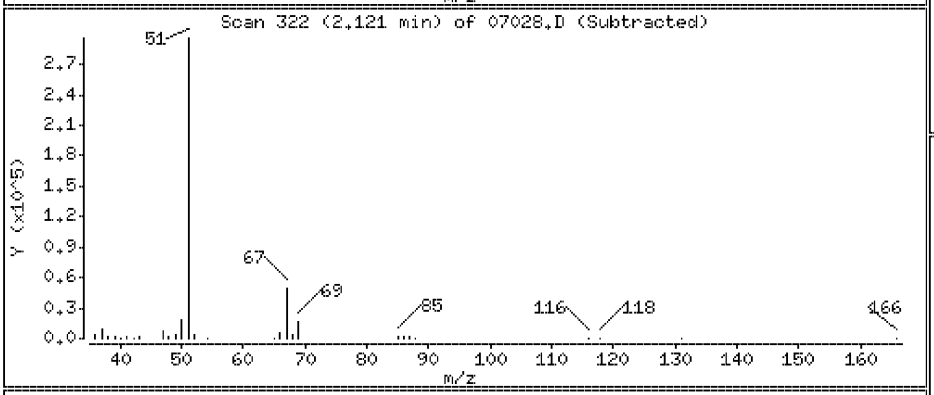
Column phase: J&W DB-5

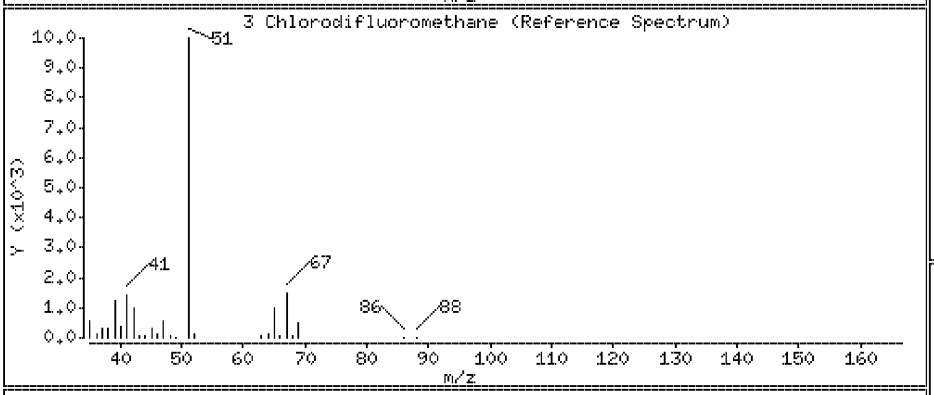
Column diameter: 0.32

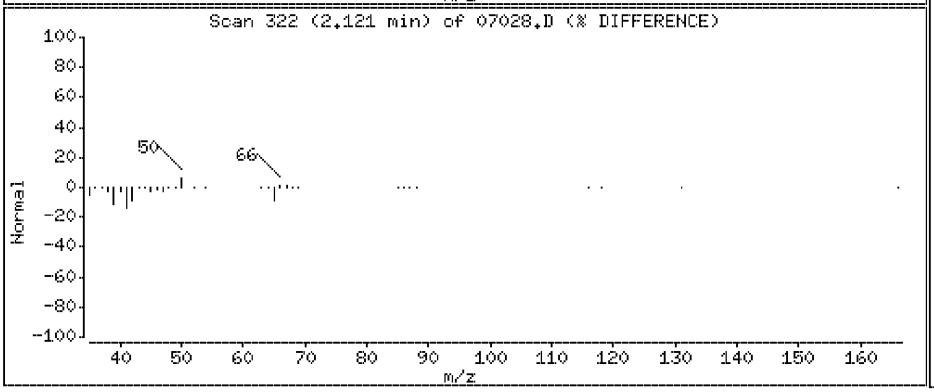
3 Chlorodifluoromethane

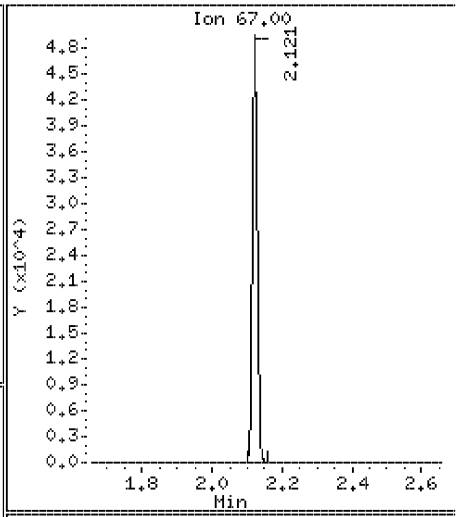
Concentration: 10.3 ppbv

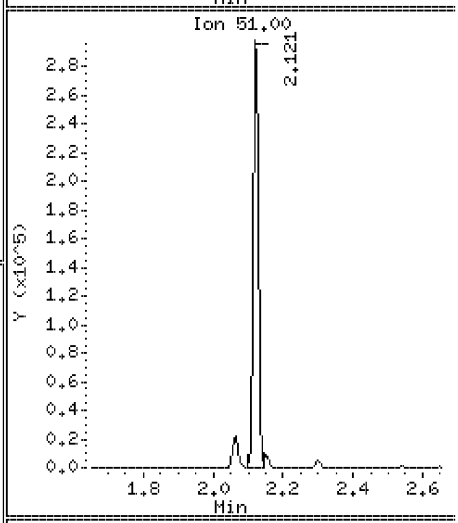


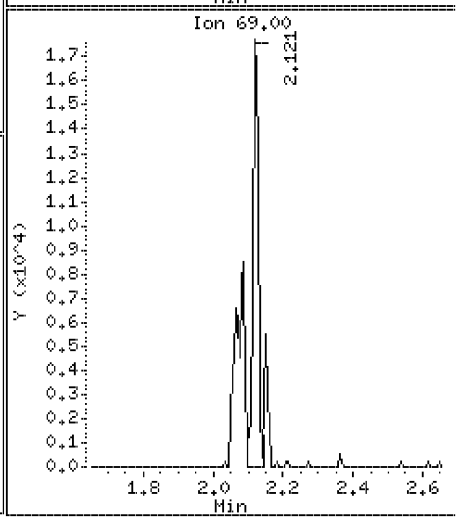












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

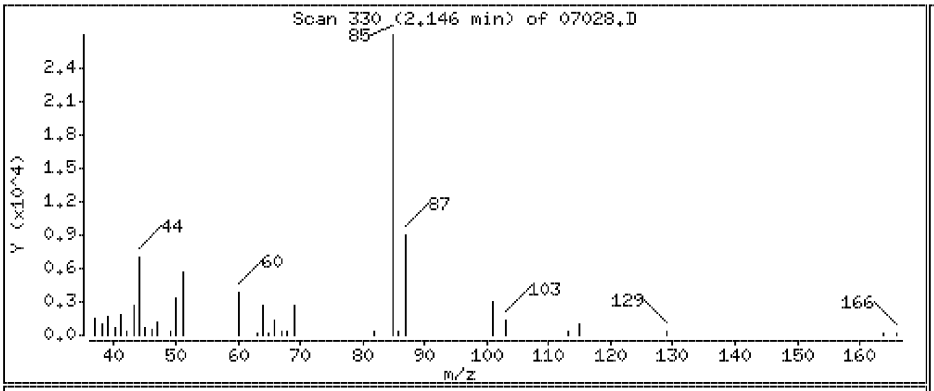
Operator: DR1

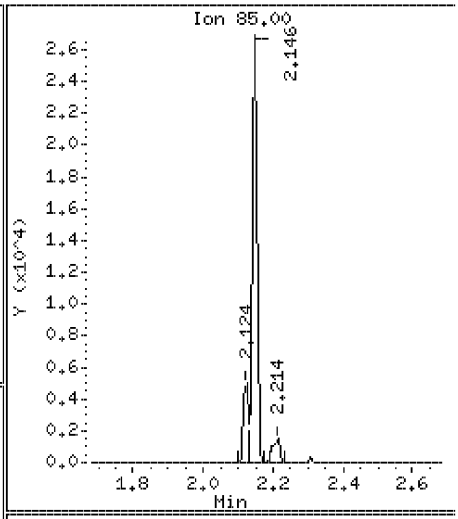
Column phase: J&W DB-5

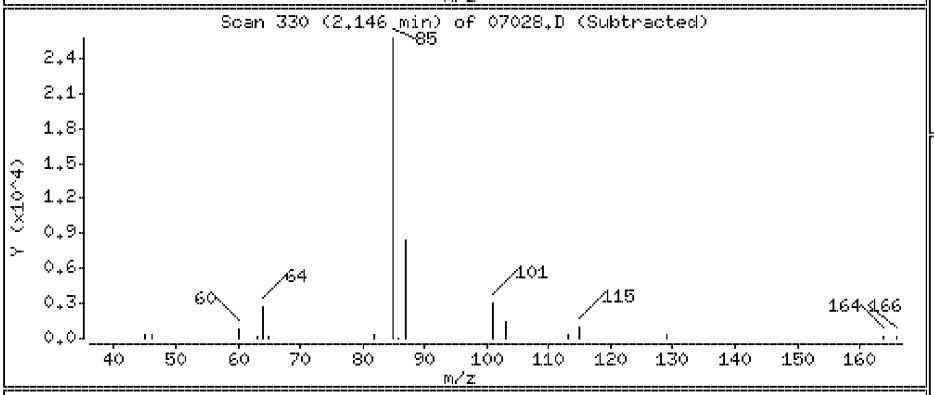
Column diameter: 0.32

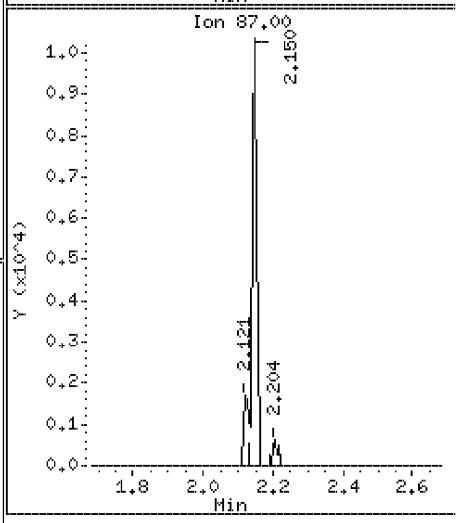
5 Dichlorodifluoromethane

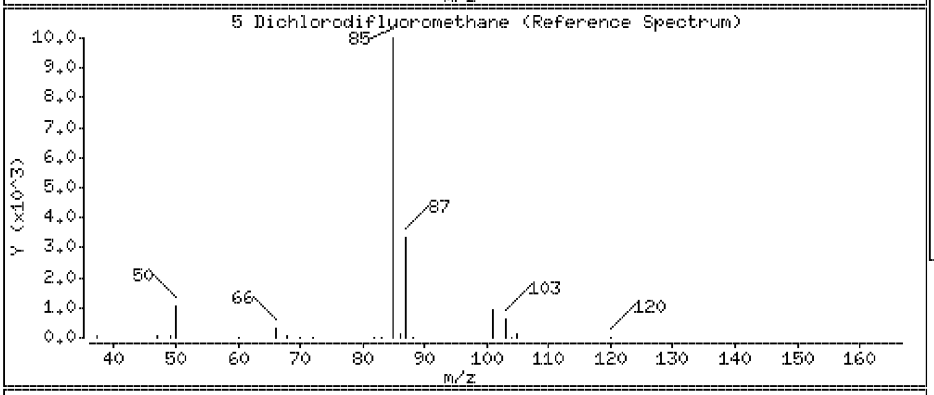
Concentration: 0.605 ppbv

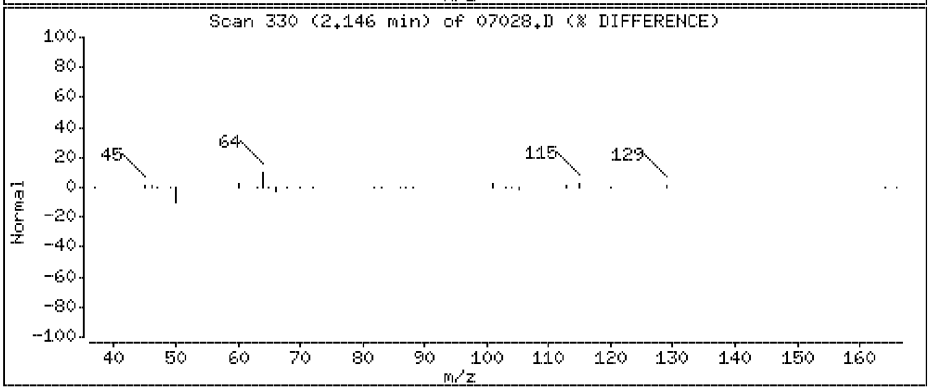












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

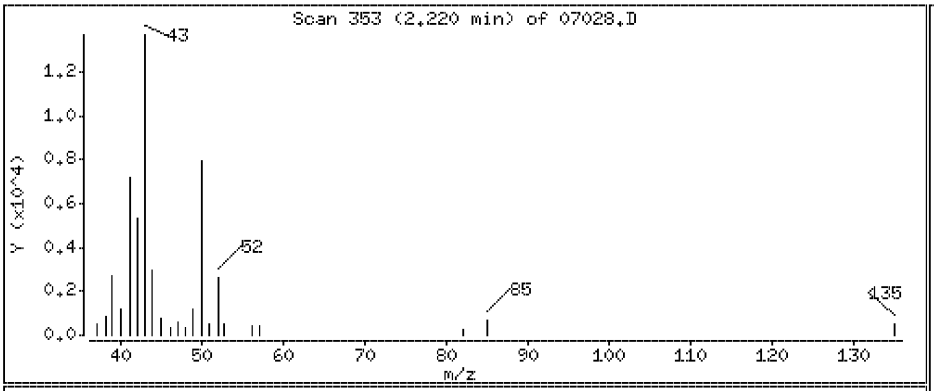
Operator: DR1

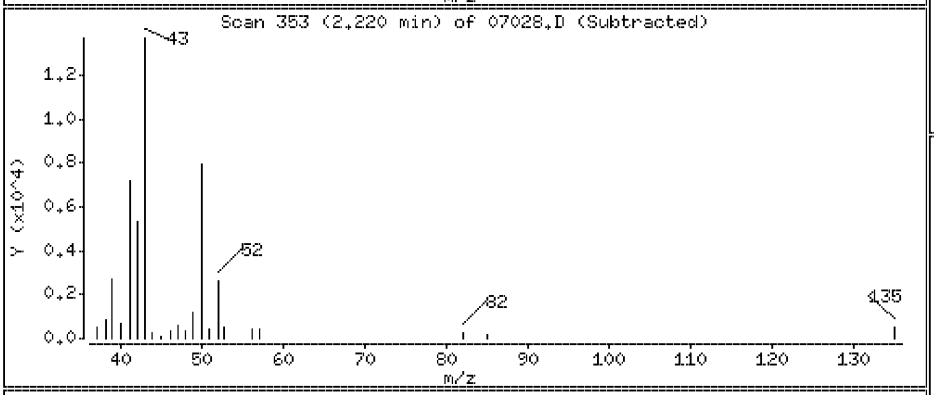
Column phase: J&W DB-5

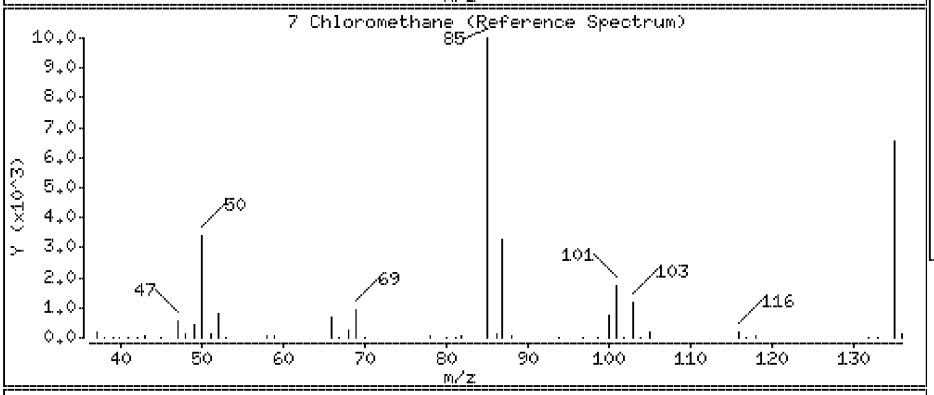
Column diameter: 0.32

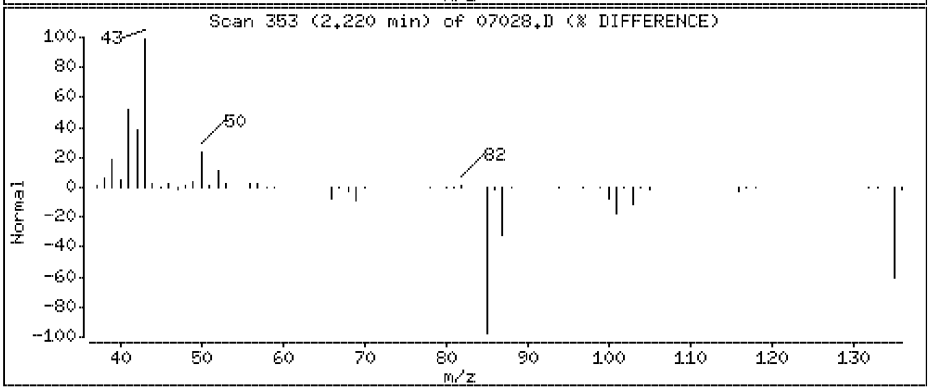
7 Chloromethane

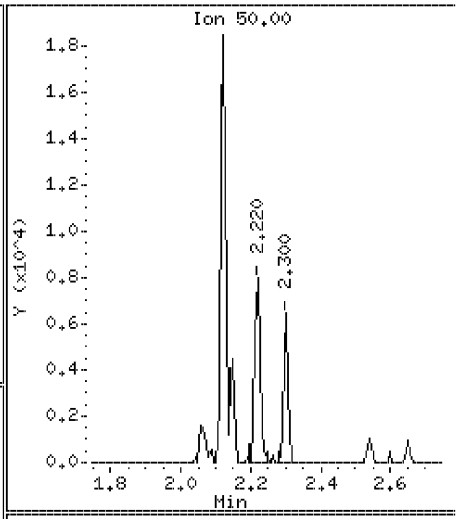
Concentration: 0.454 ppbv

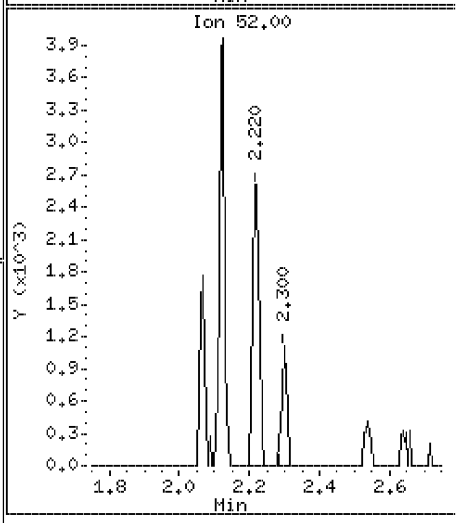












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

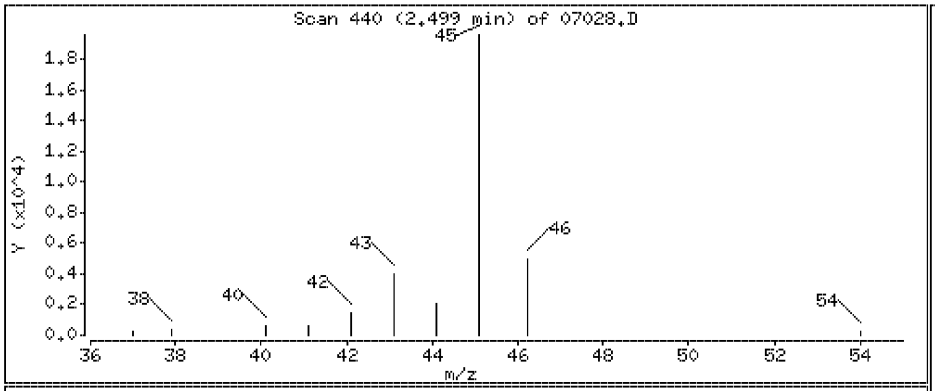
Operator: DR1

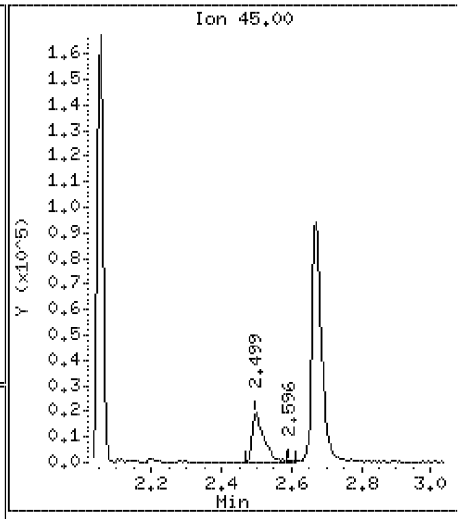
Column phase: J&W DB-5

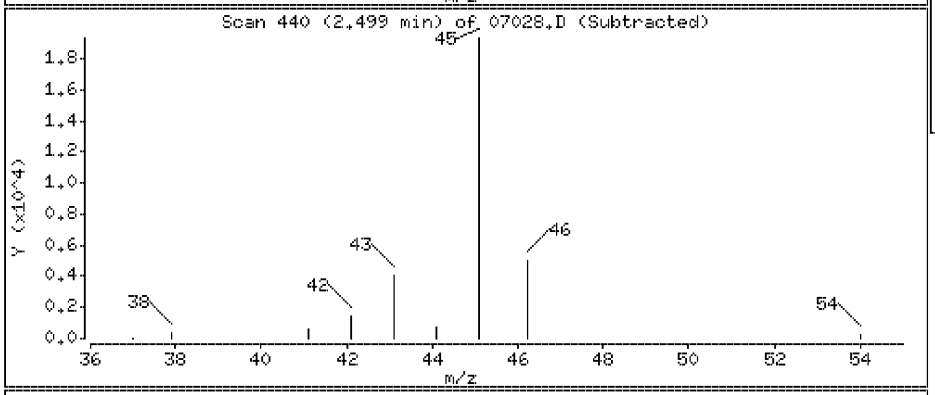
Column diameter: 0.32

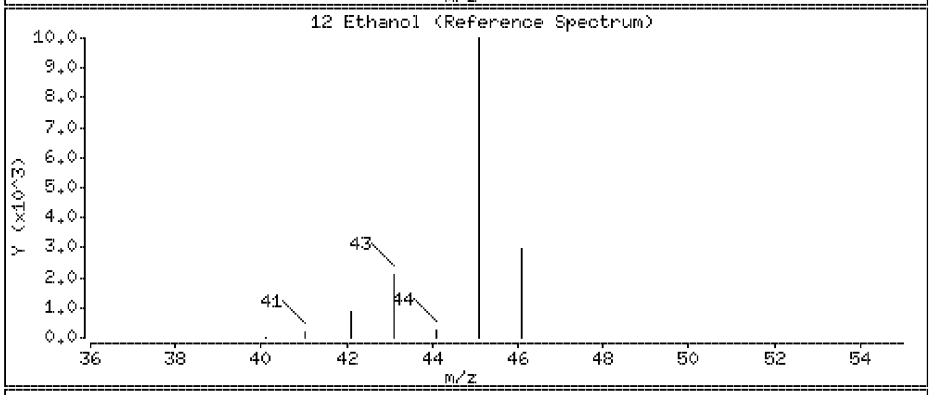
12 Ethanol

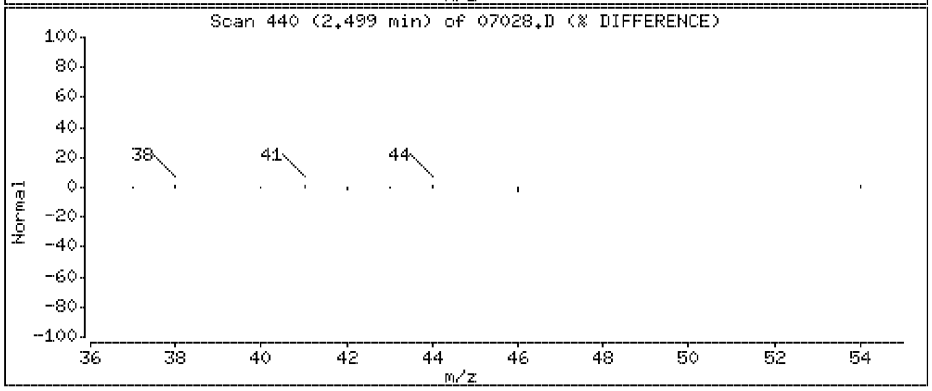
Concentration: 16.2 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

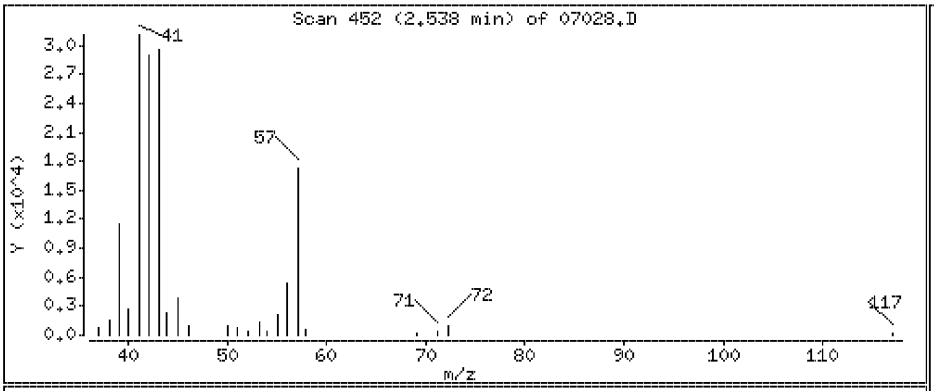
Operator: DR1

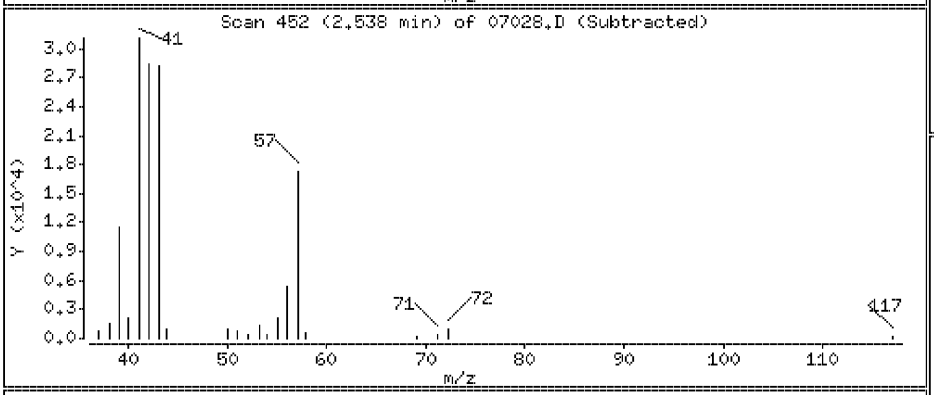
Column phase: J&W DB-5

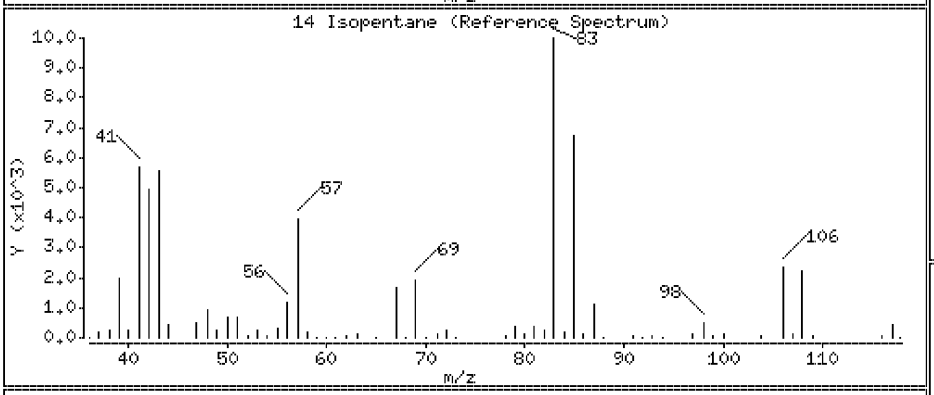
Column diameter: 0.32

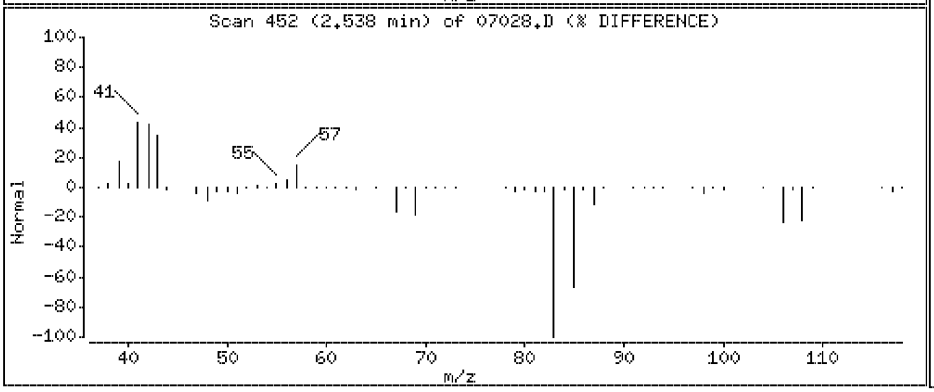
14 Isopentane

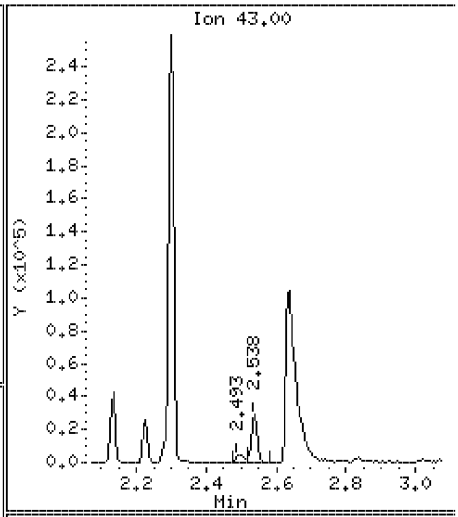
Concentration: 1.93 ppbv

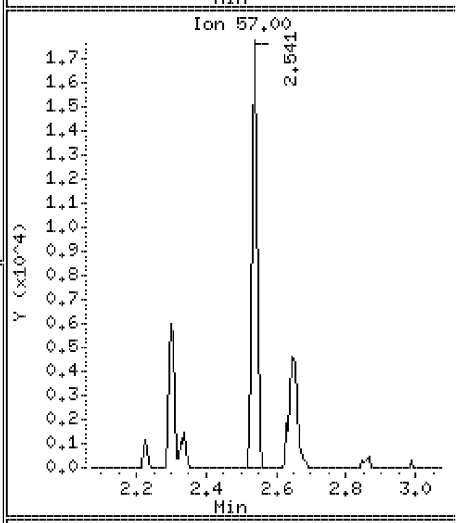


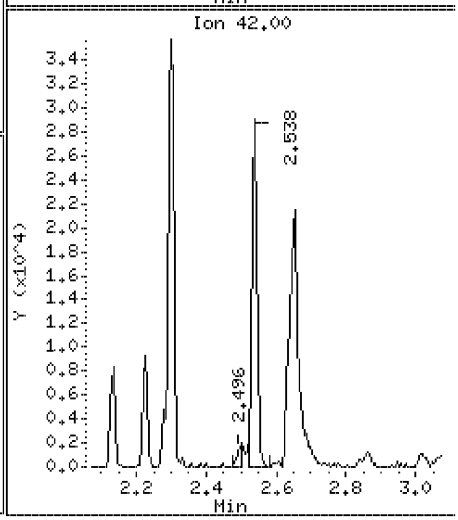












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

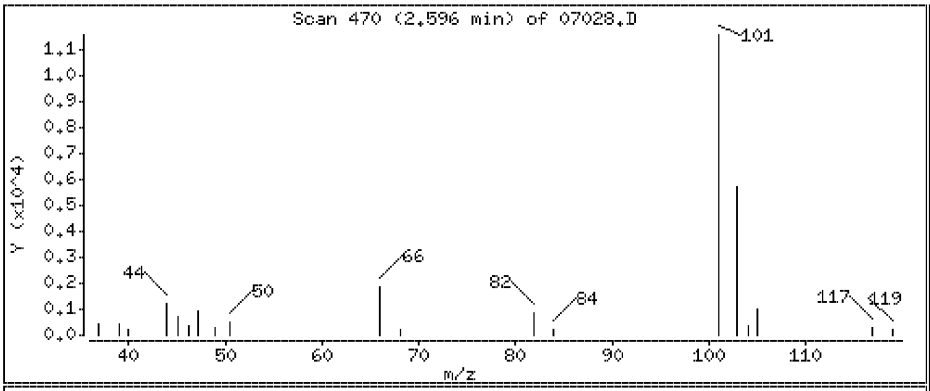
Operator: DR1

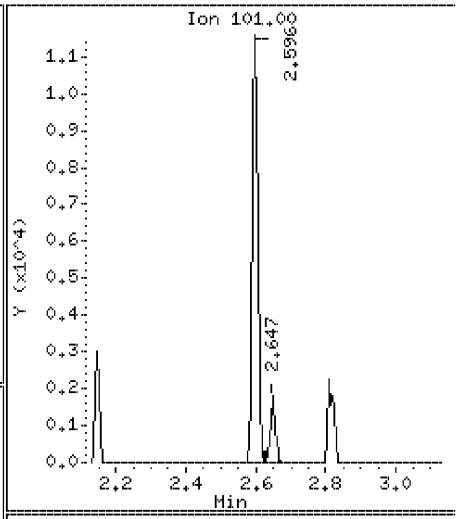
Column phase: J&W DB-5

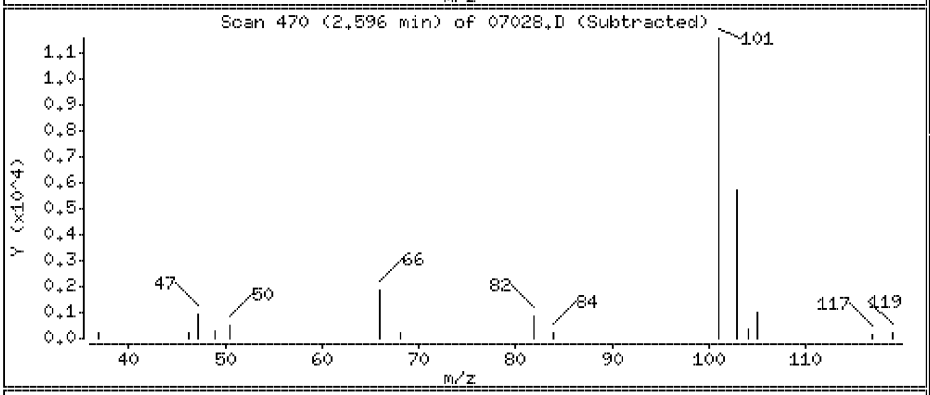
Column diameter: 0.32

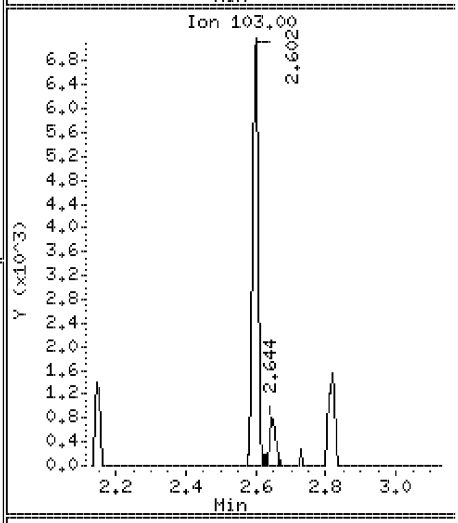
16 Trichlorofluoromethane

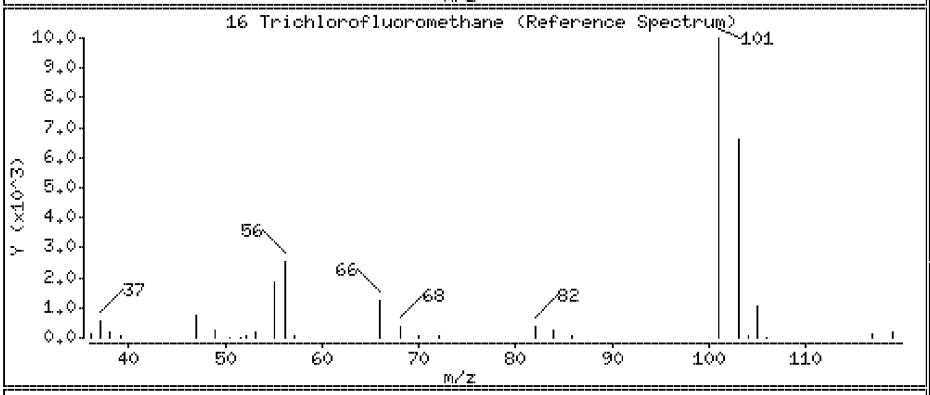
Concentration: 0.293 ppbv

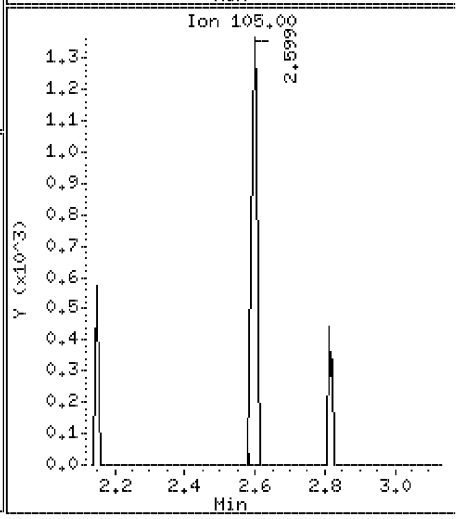


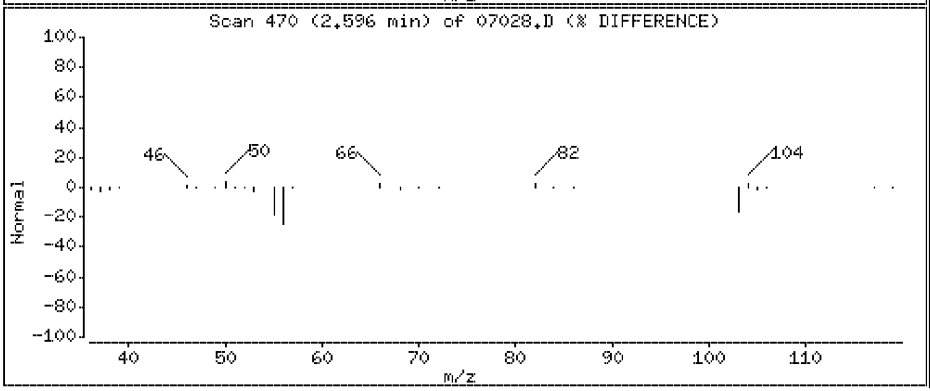












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

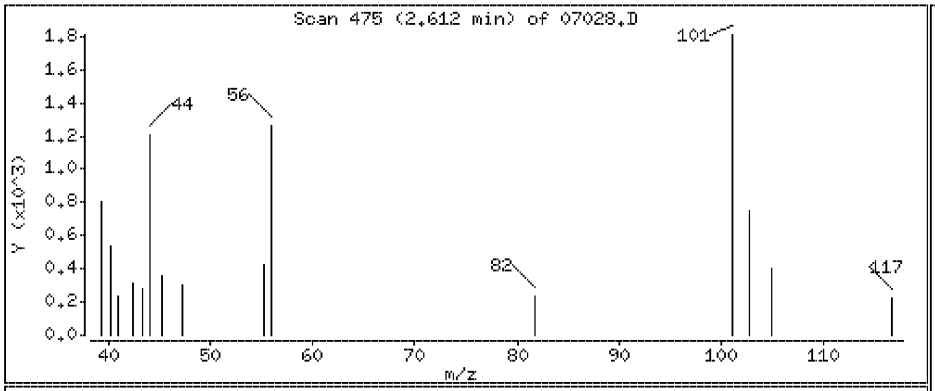
Operator: DR1

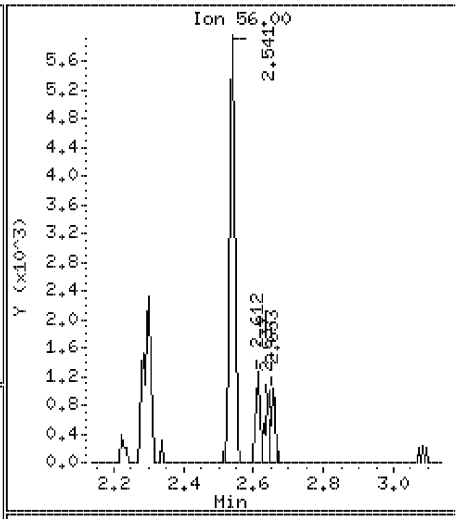
Column phase: J&W DB-5

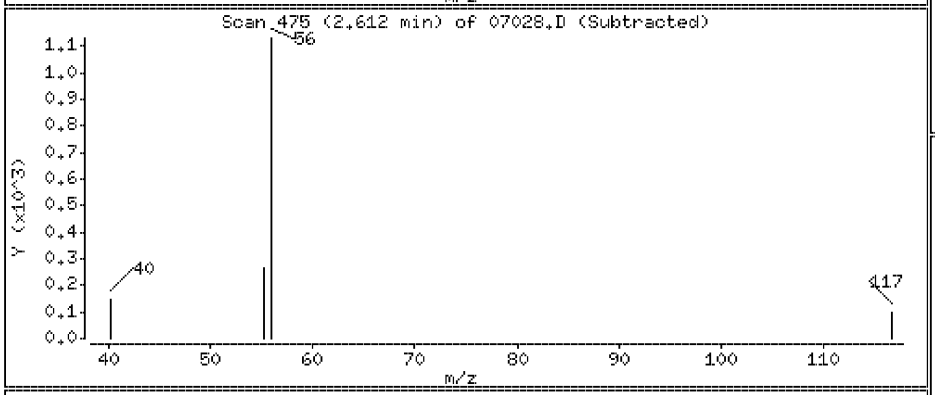
Column diameter: 0.32

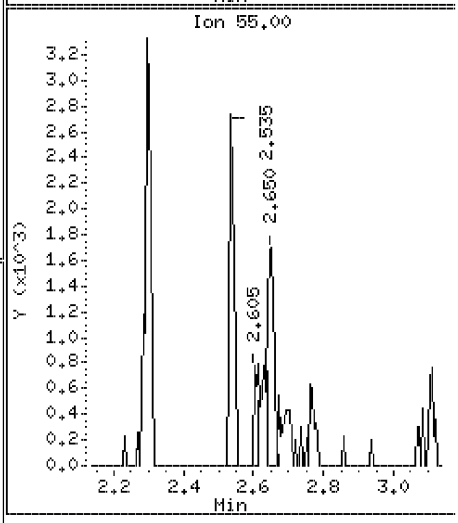
17 Acrolein

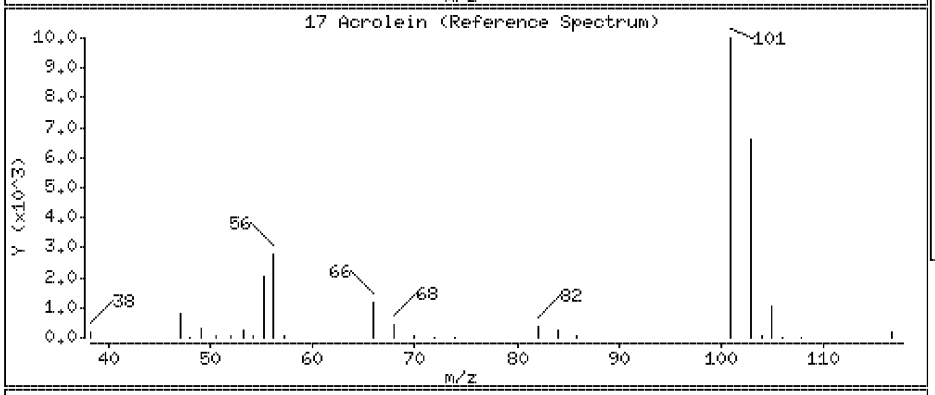
Concentration: 0.915 ppbv

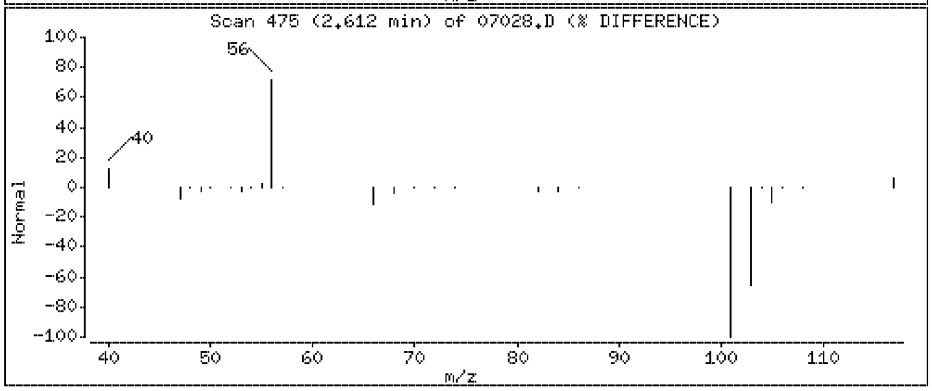












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

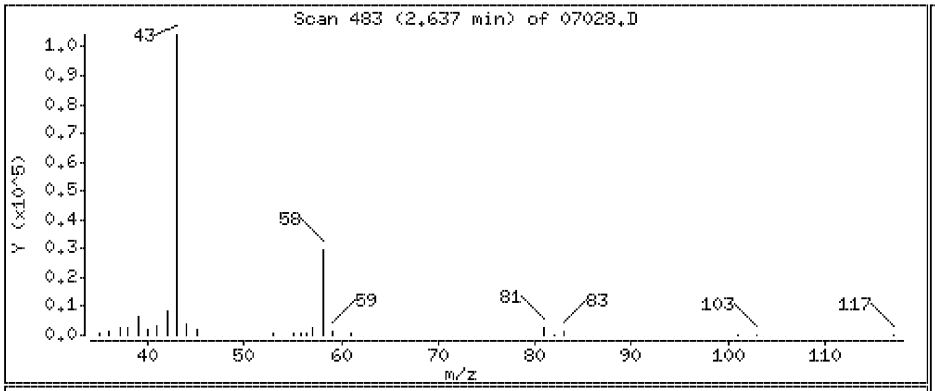
Operator: DR1

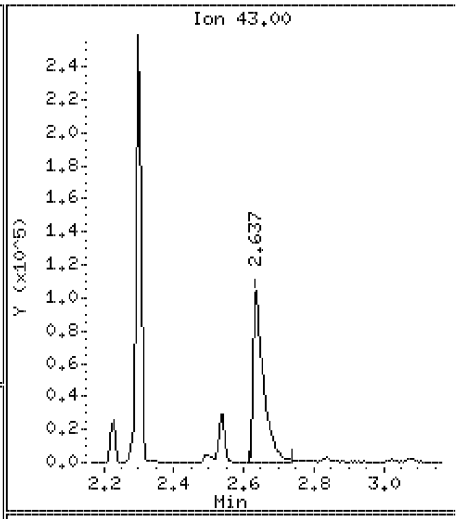
Column phase: J&W DB-5

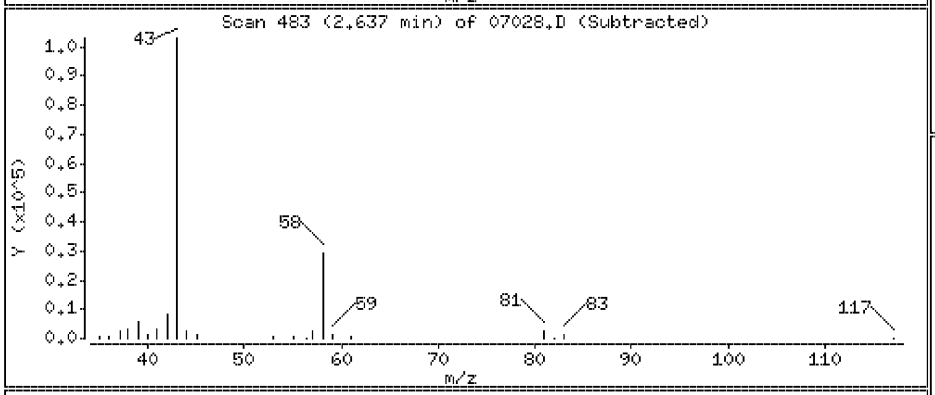
Column diameter: 0.32

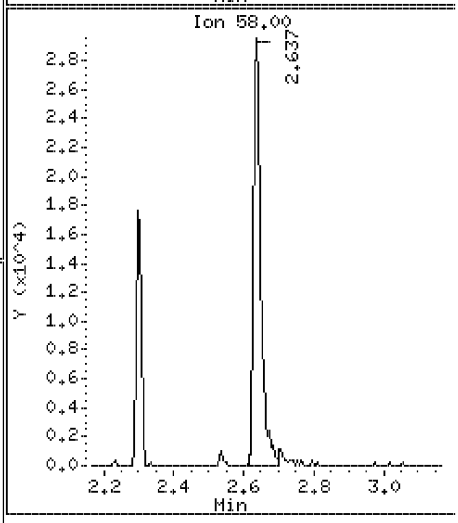
18 Acetone

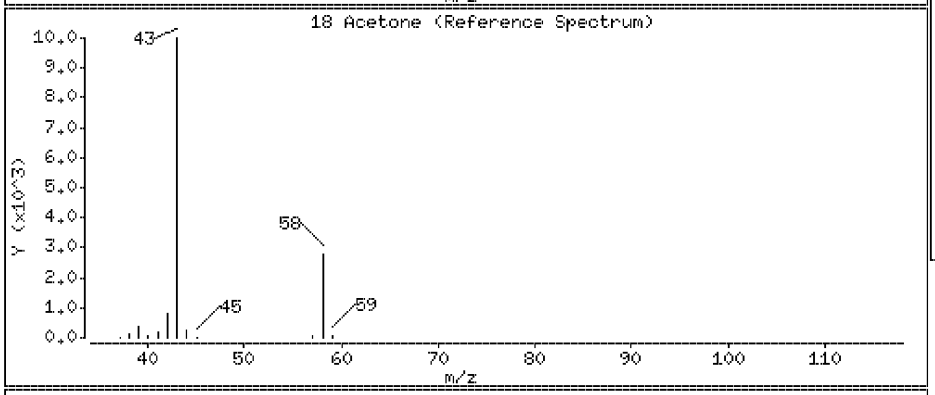
Concentration: 8.22 ppbv

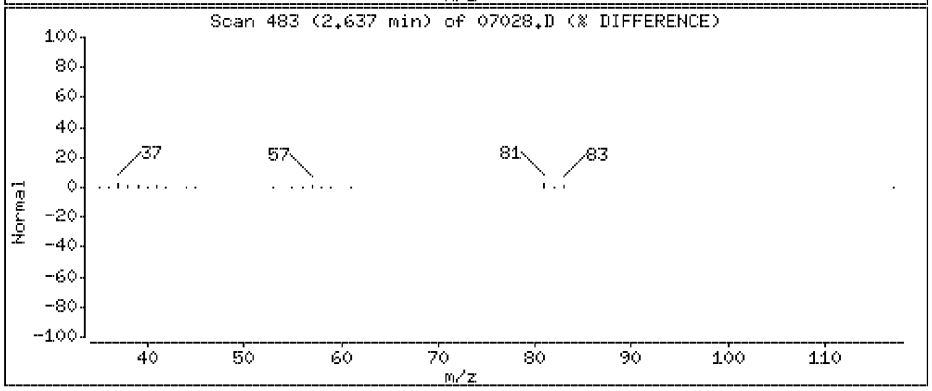












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

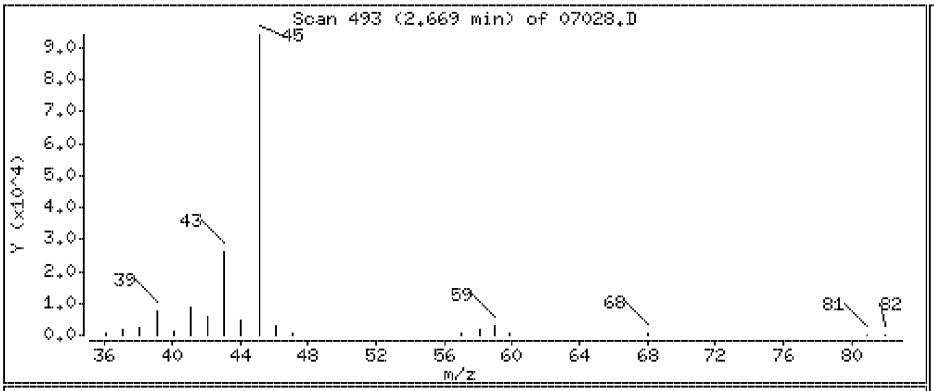
Operator: DR1

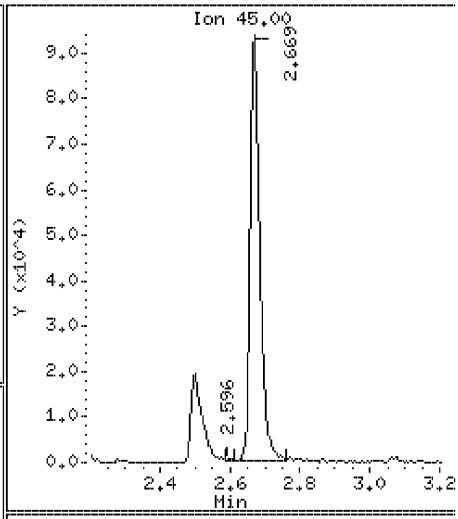
Column phase: J&W DB-5

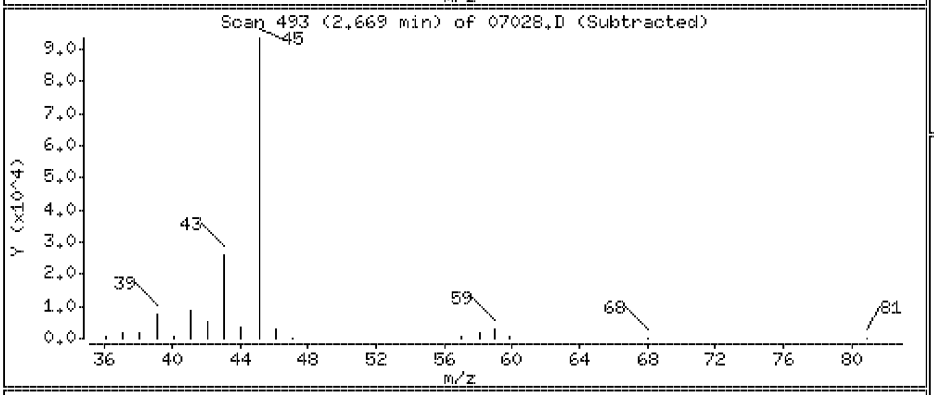
Column diameter: 0.32

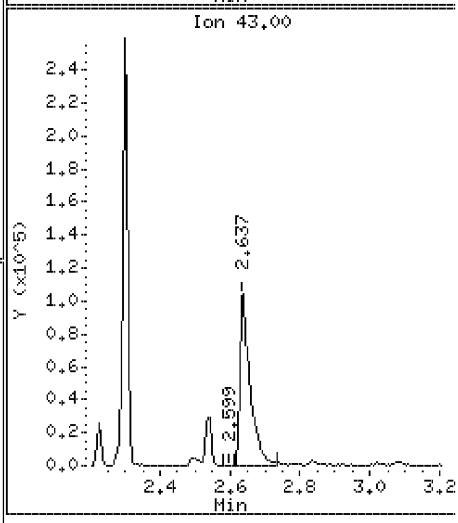
19 Isopropyl Alcohol

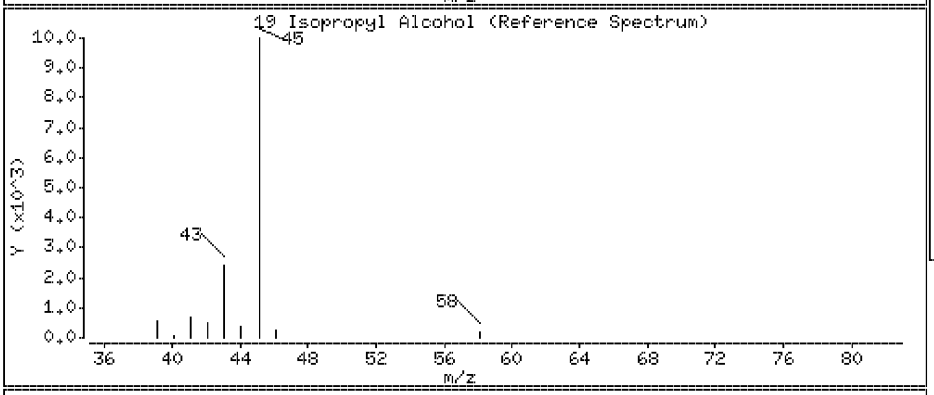
Concentration: 12.6 ppbv

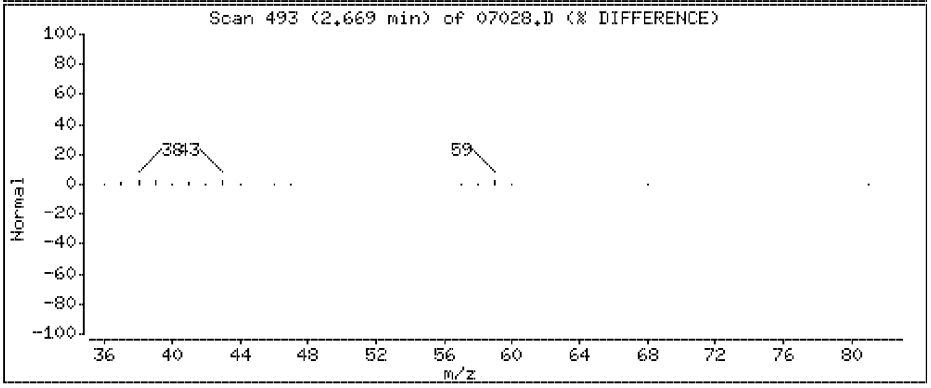












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

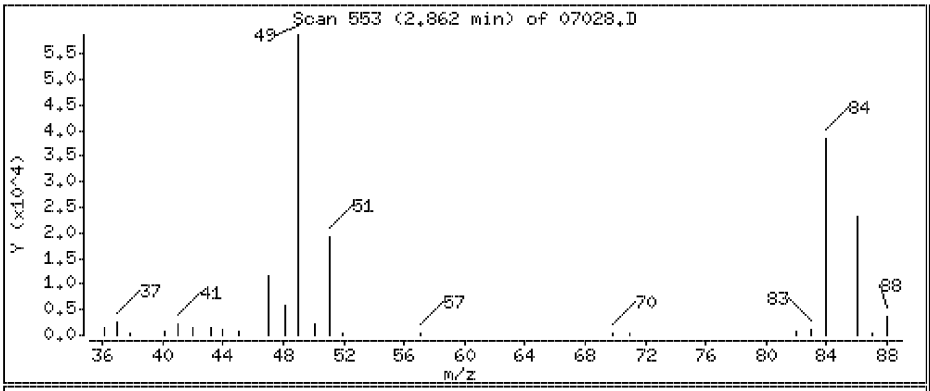
Operator: DR1

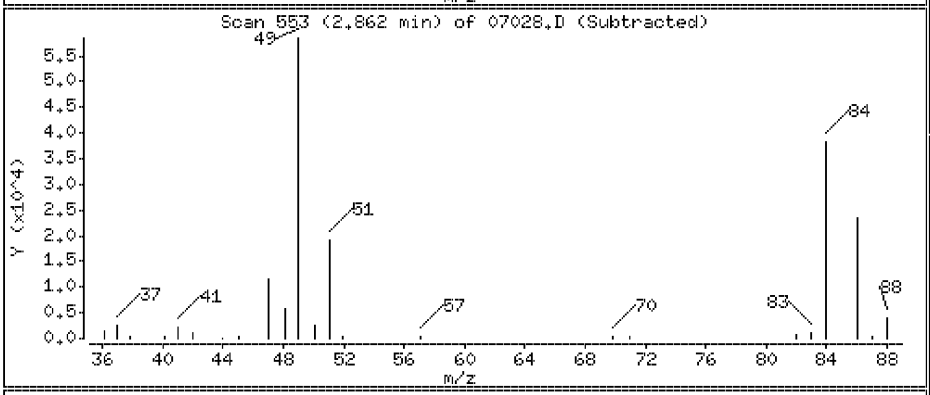
Column phase: J&W DB-5

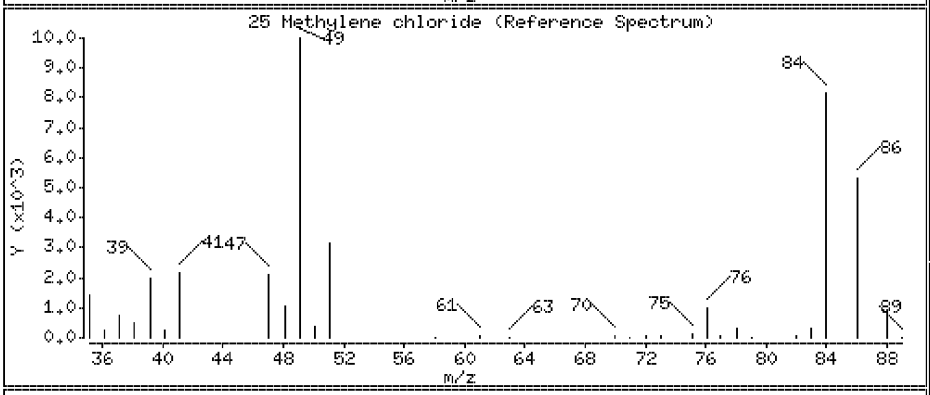
Column diameter: 0.32

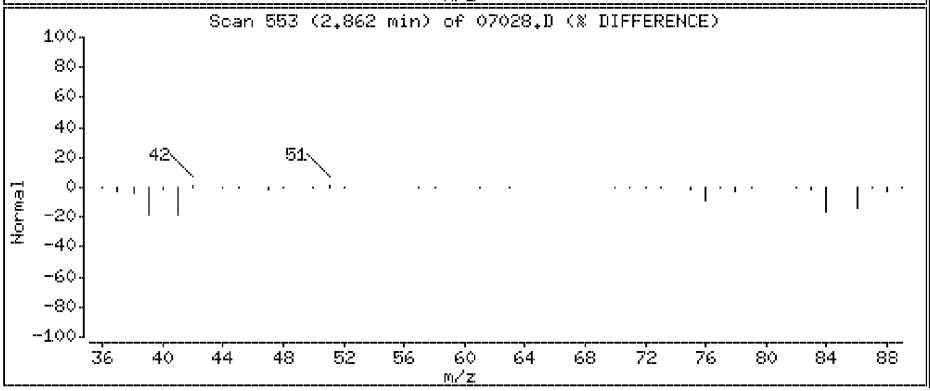
25 Methylene chloride

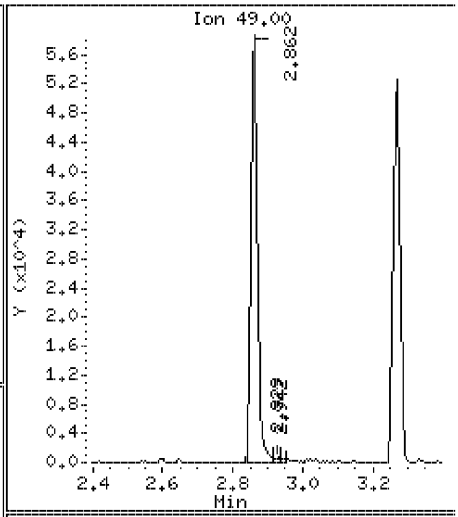
Concentration: 3.37 ppbv

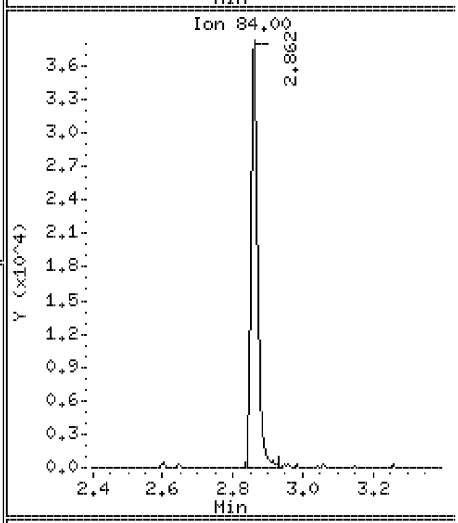


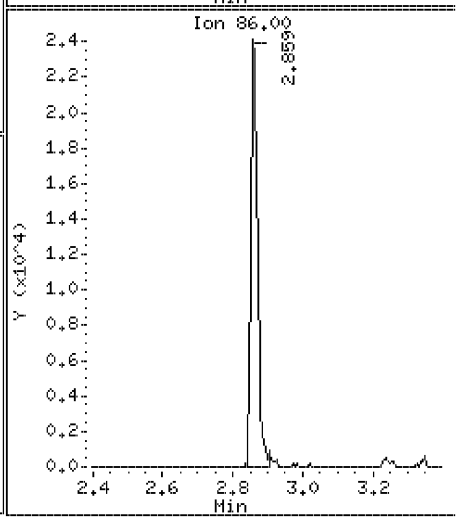












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

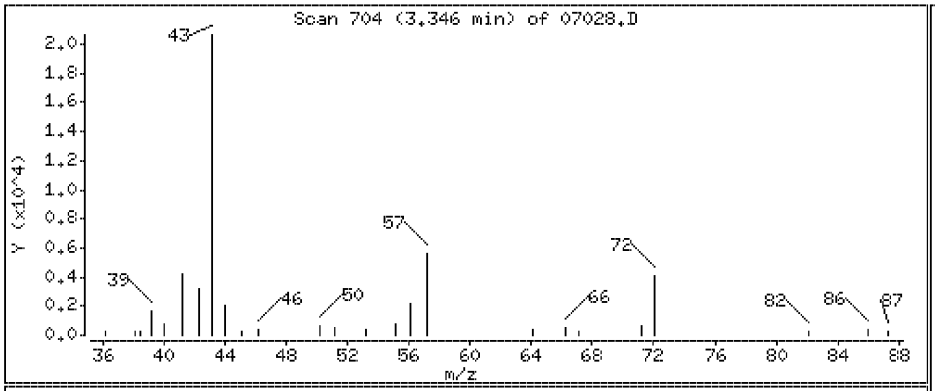
Operator: DR1

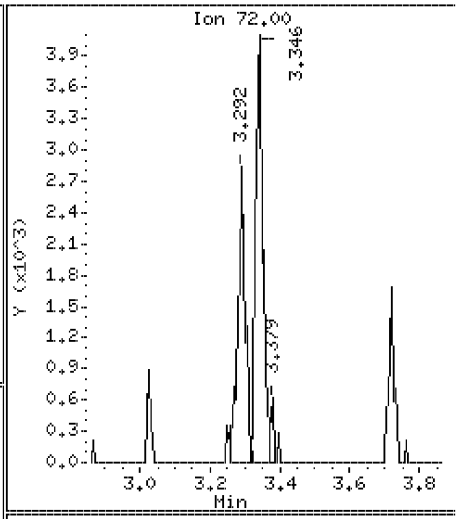
Column phase: J&W DB-5

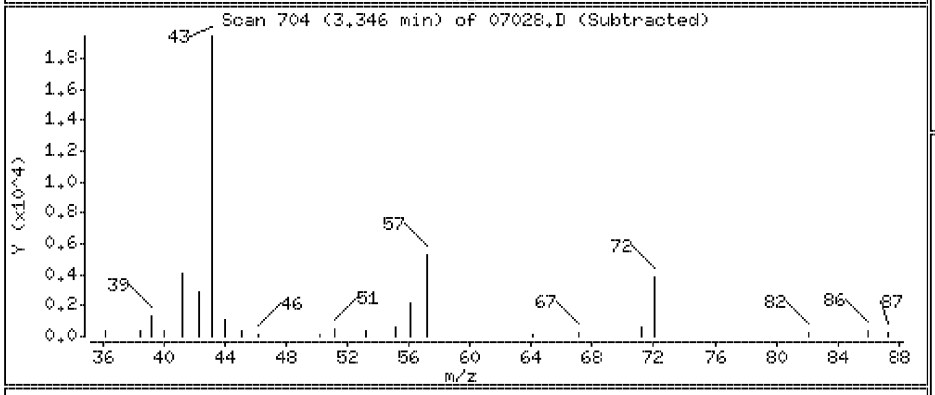
Column diameter: 0.32

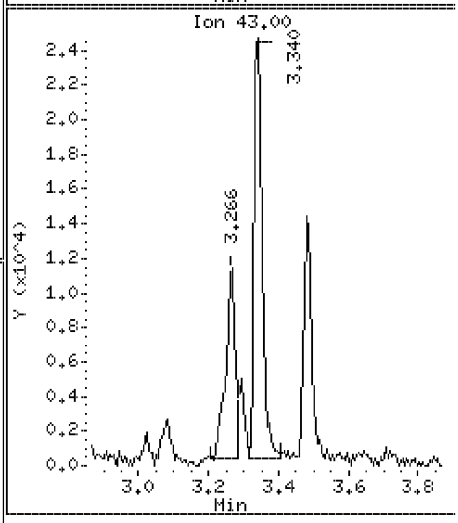
33 Methyl Ethyl Ketone

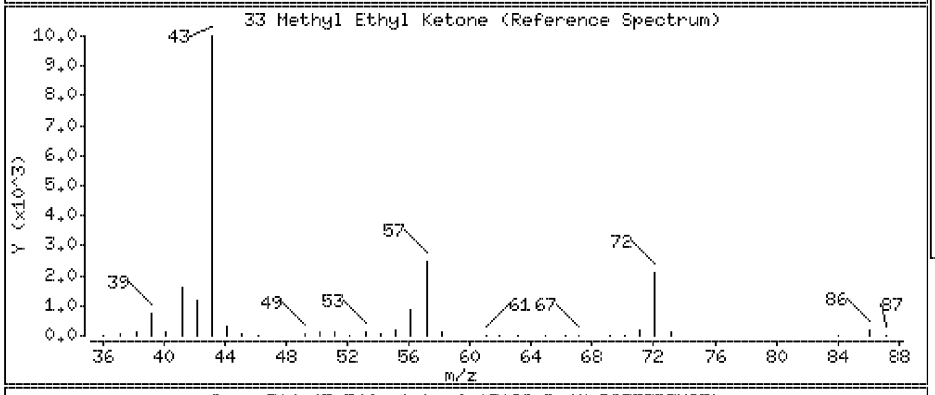
Concentration: 0.998 ppbv

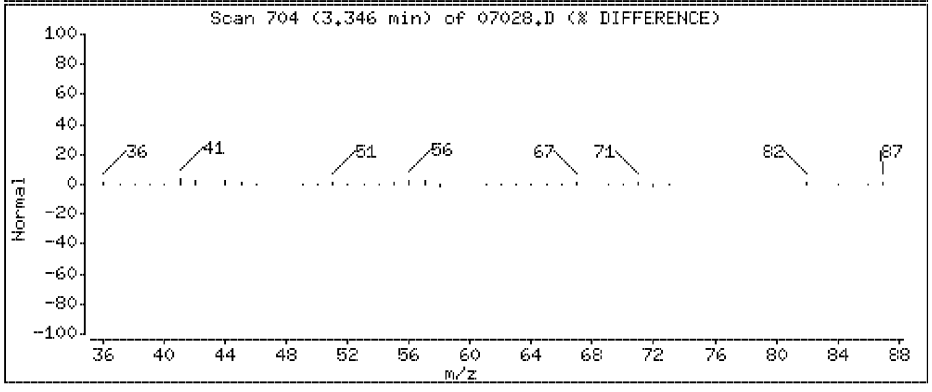












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

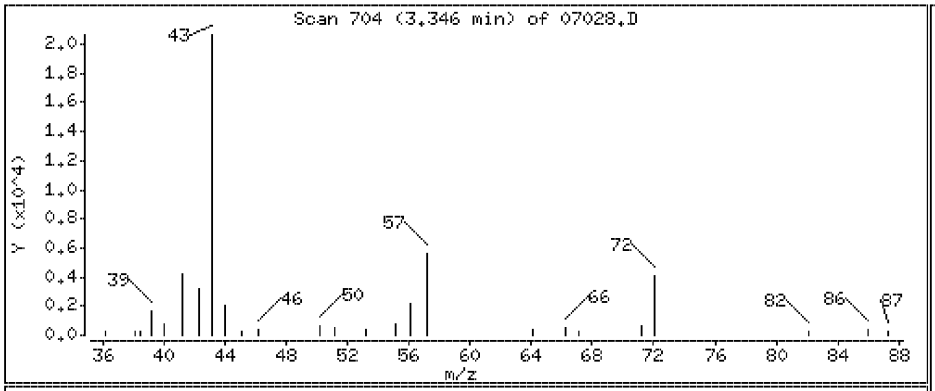
Operator: DR1

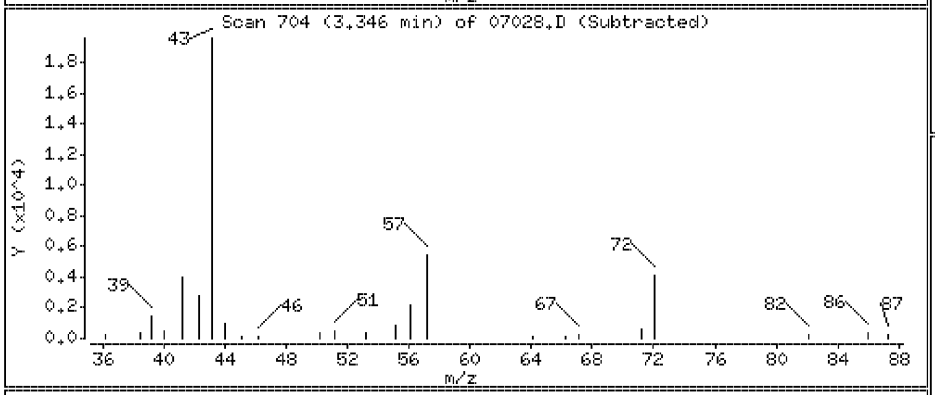
Column phase: J&W DB-5

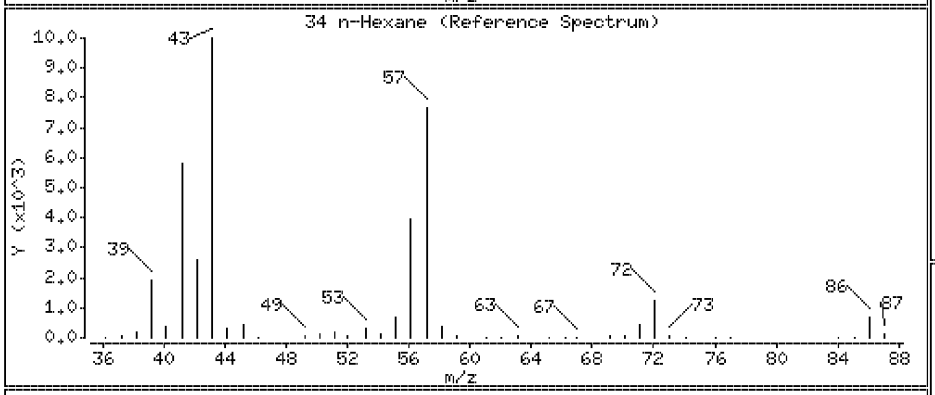
Column diameter: 0.32

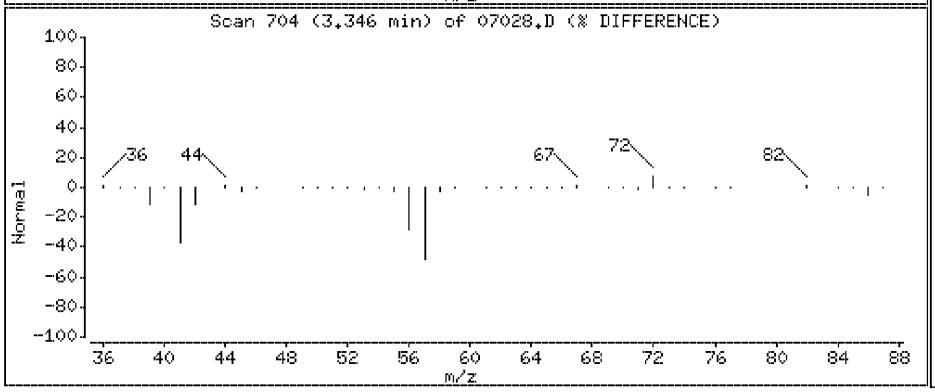
34 n-Hexane

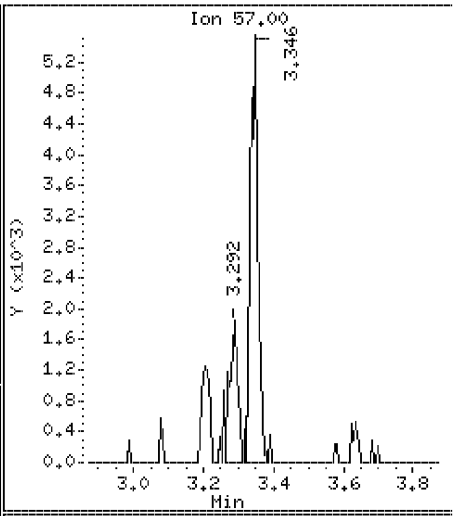
Concentration: 0.385 ppbv

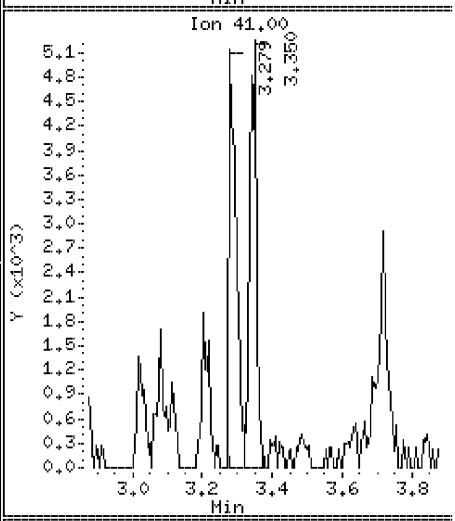


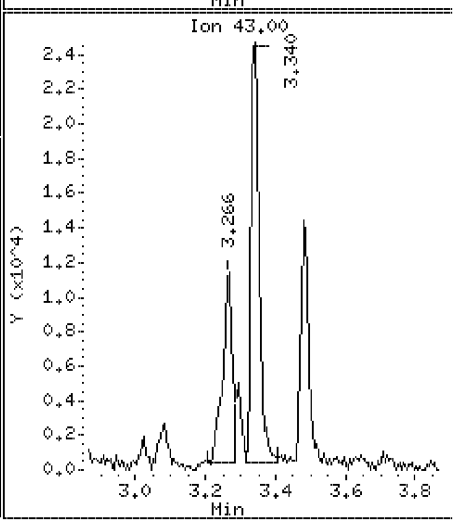












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

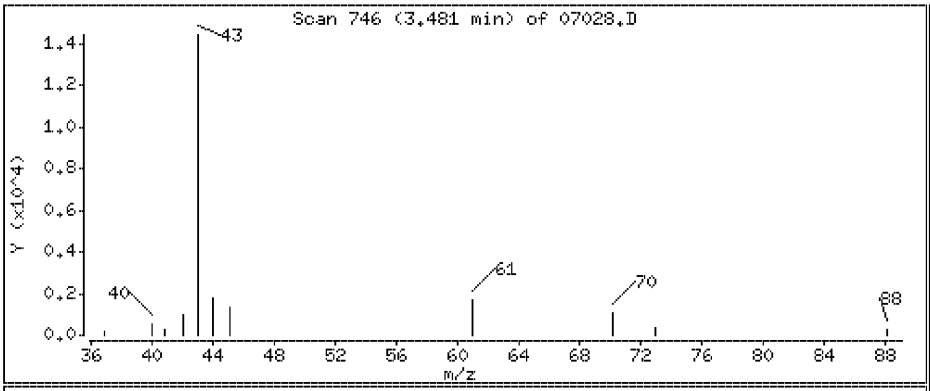
Operator: DR1

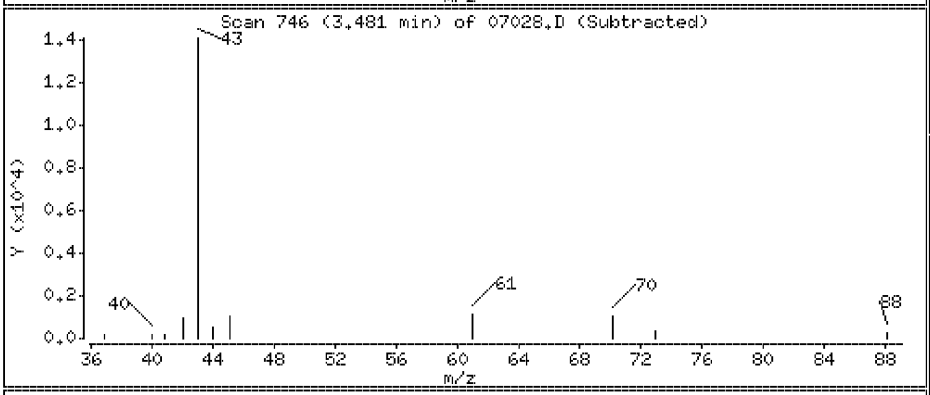
Column phase: J&W DB-5

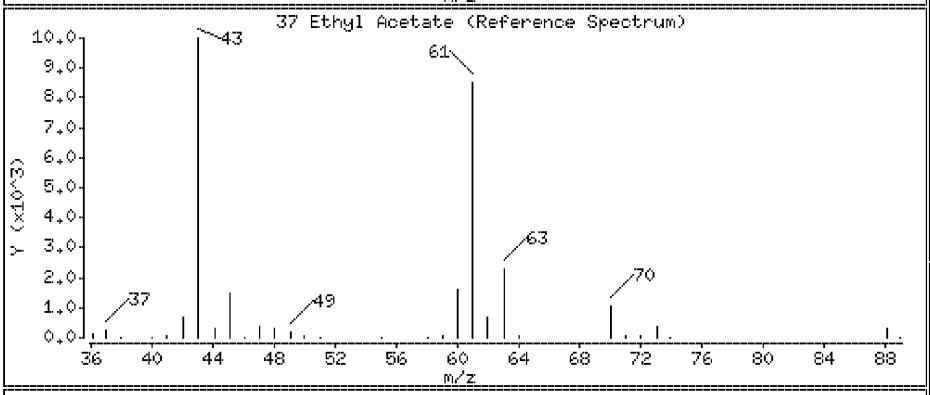
Column diameter: 0.32

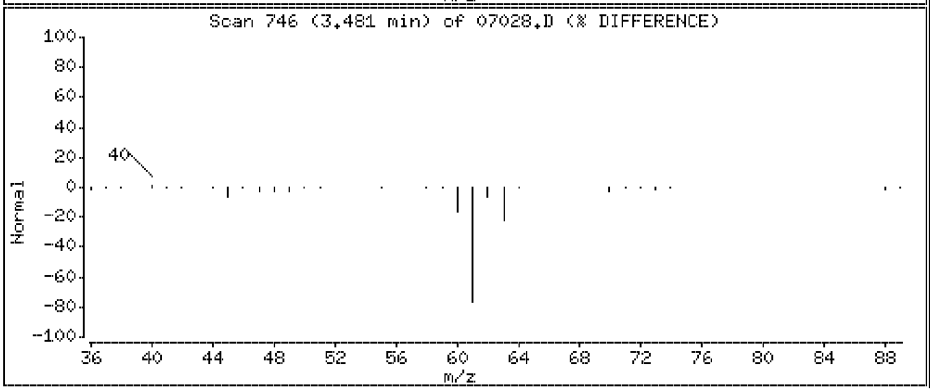
37 Ethyl Acetate

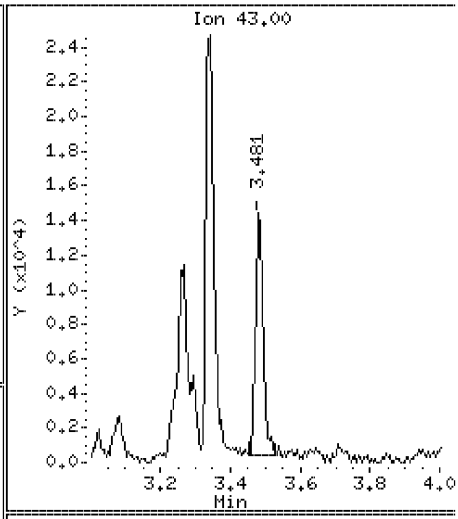
Concentration: 0.616 ppbv

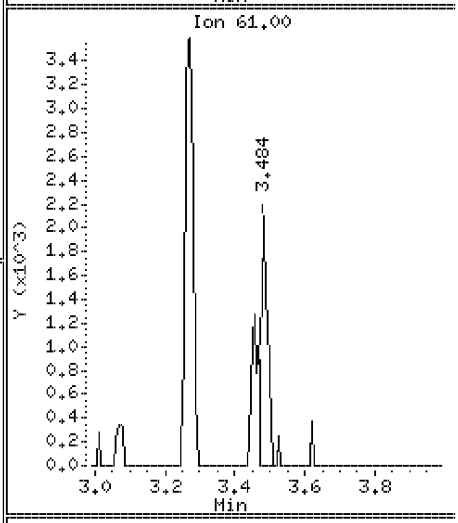


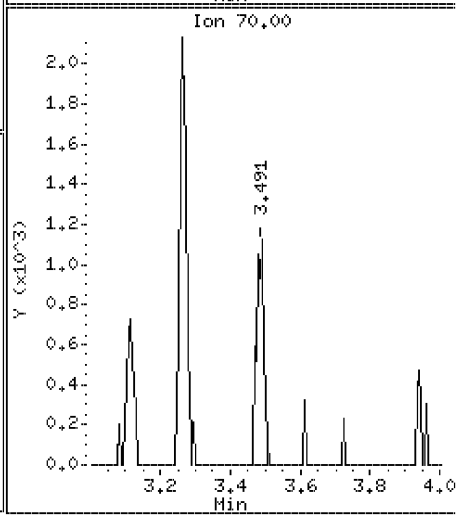












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

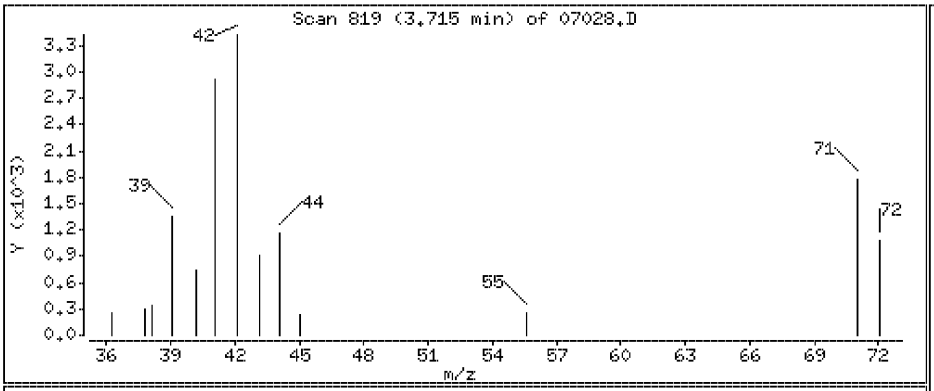
Operator: DR1

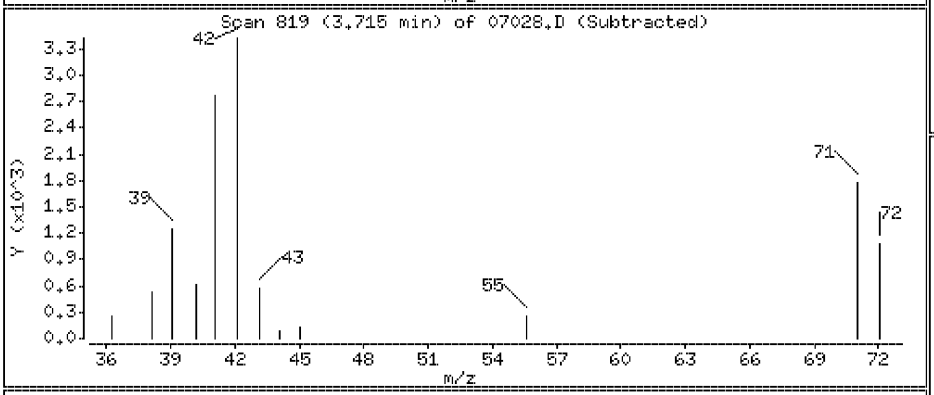
Column phase: J&W DB-5

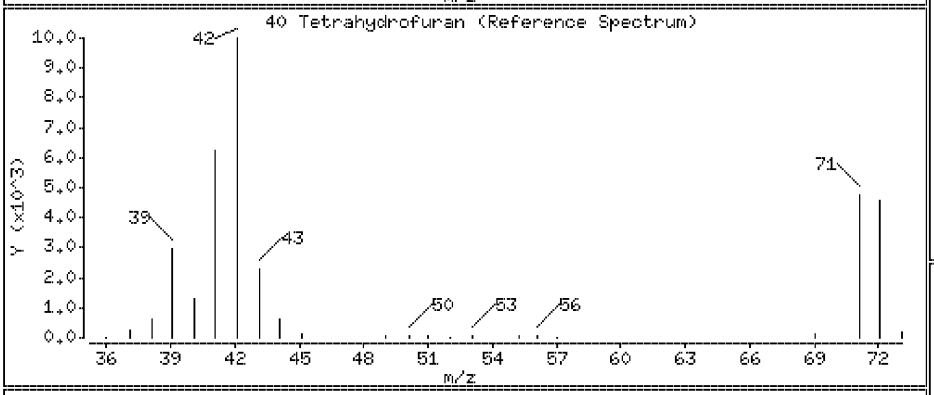
Column diameter: 0.32

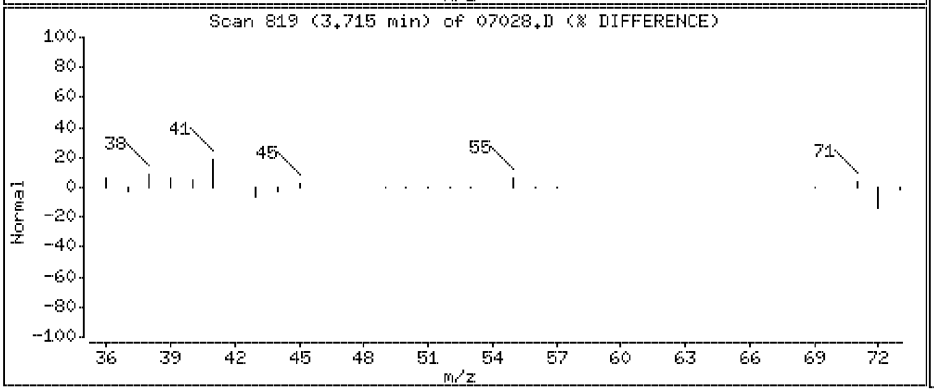
40 Tetrahydrofuran

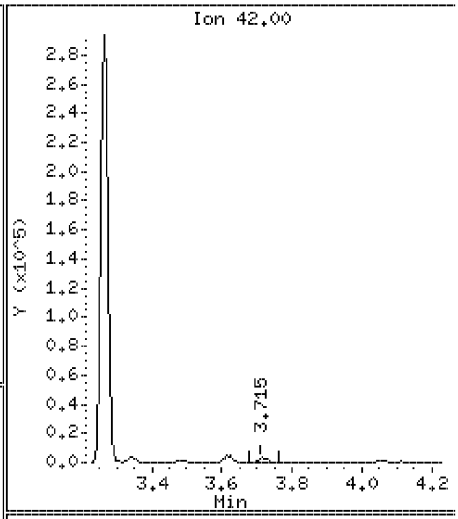
Concentration: 0.337 ppbv

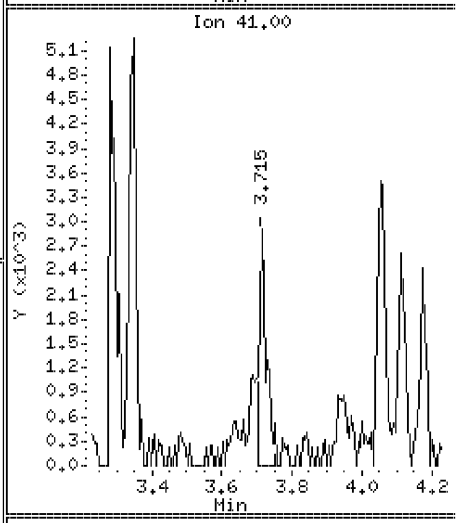


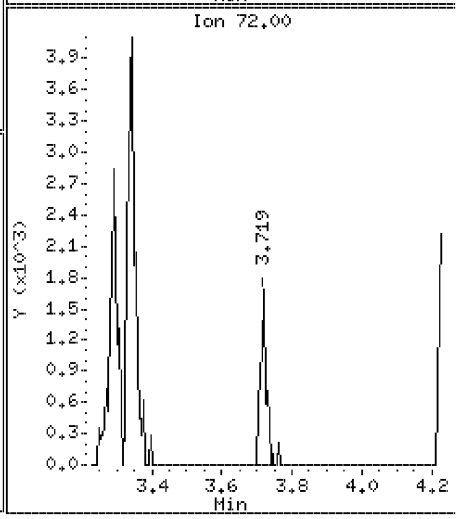












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

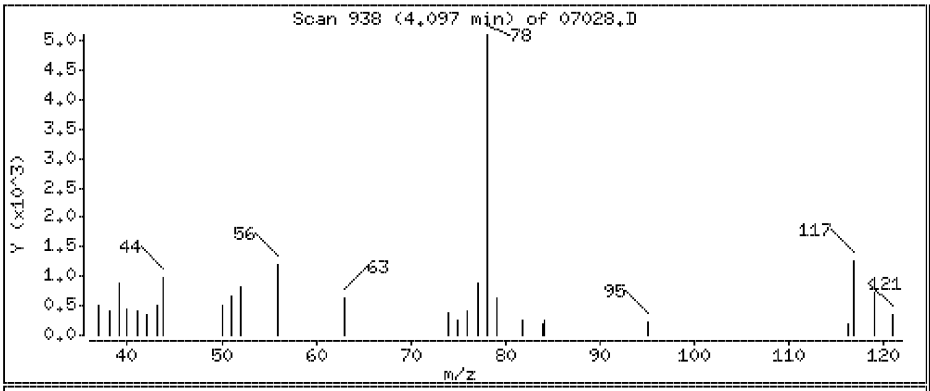
Operator: DR1

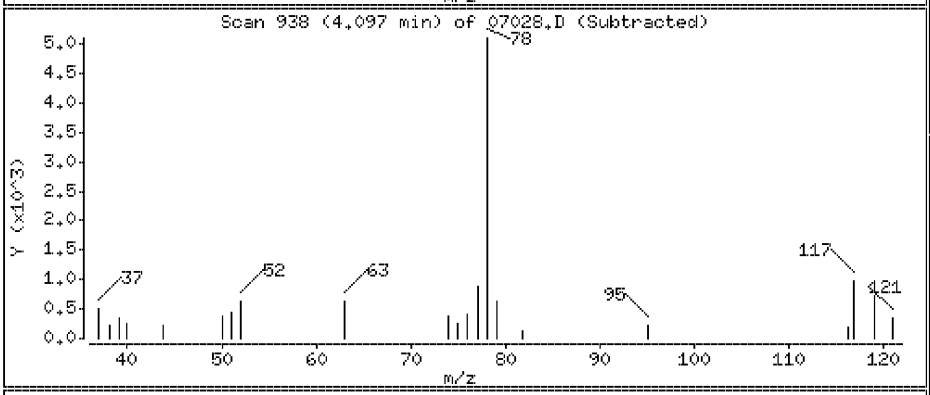
Column phase: J&W DB-5

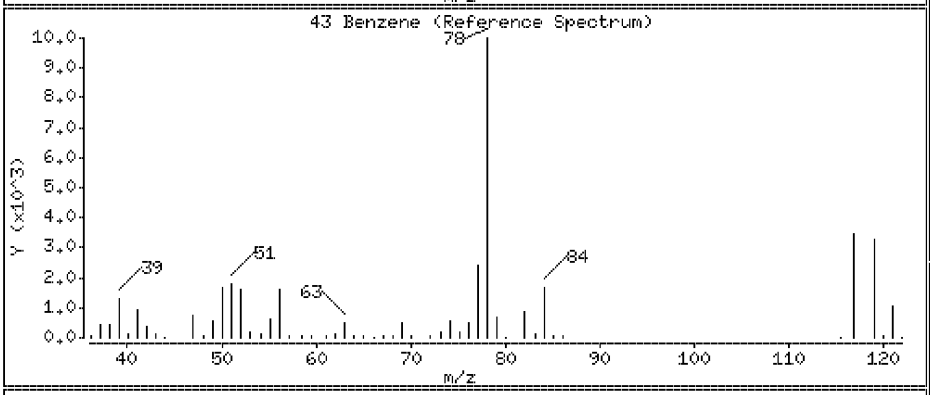
Column diameter: 0.32

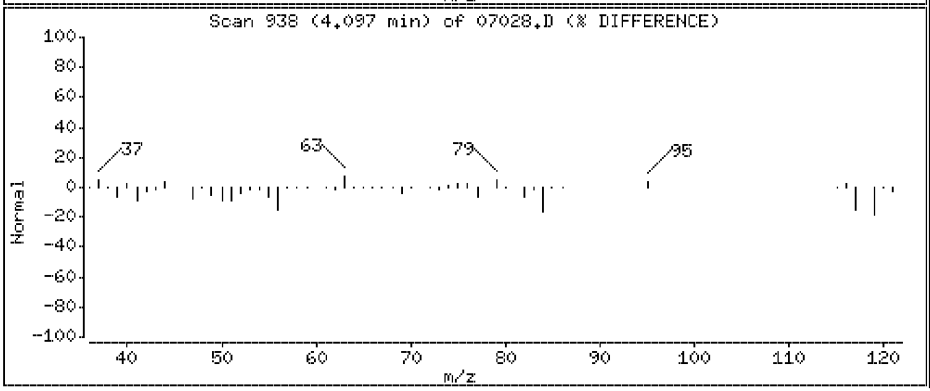
43 Benzene

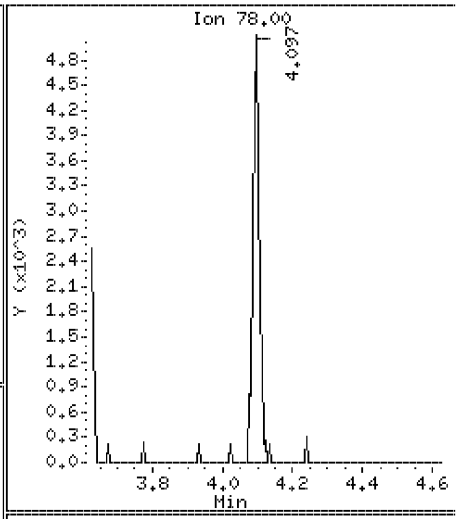
Concentration: 0.159 ppbv

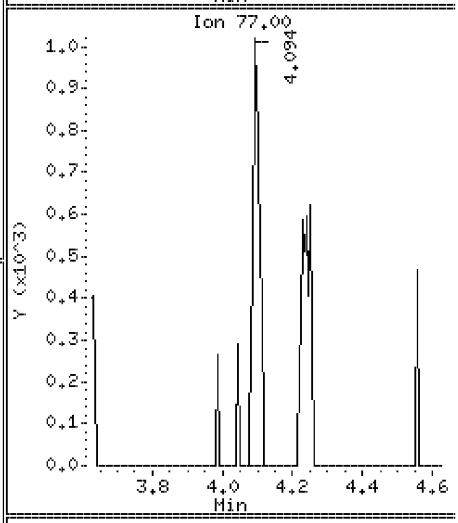


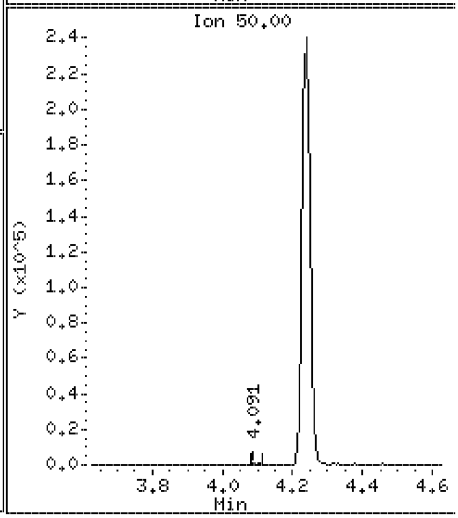












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

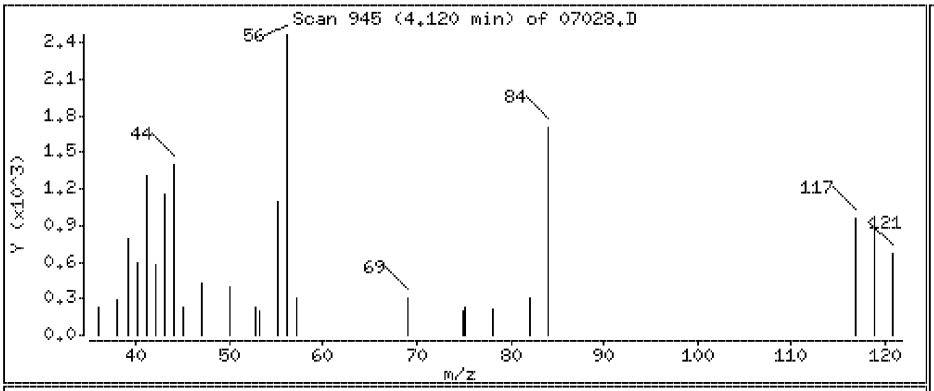
Operator: DR1

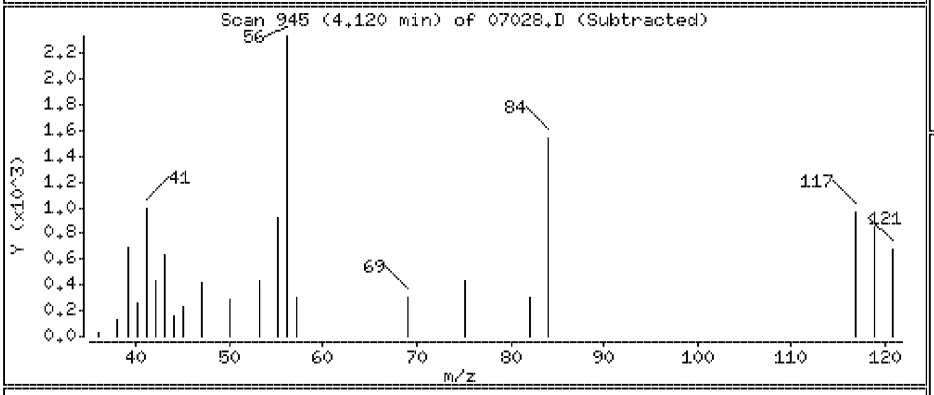
Column phase: J&W DB-5

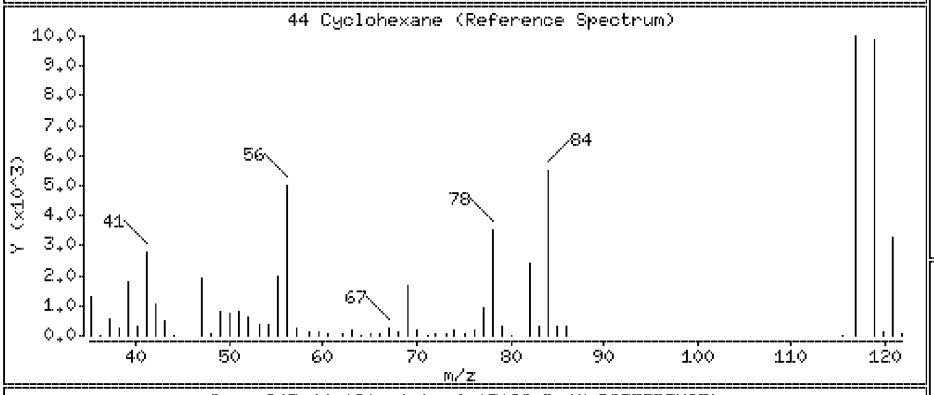
Column diameter: 0.32

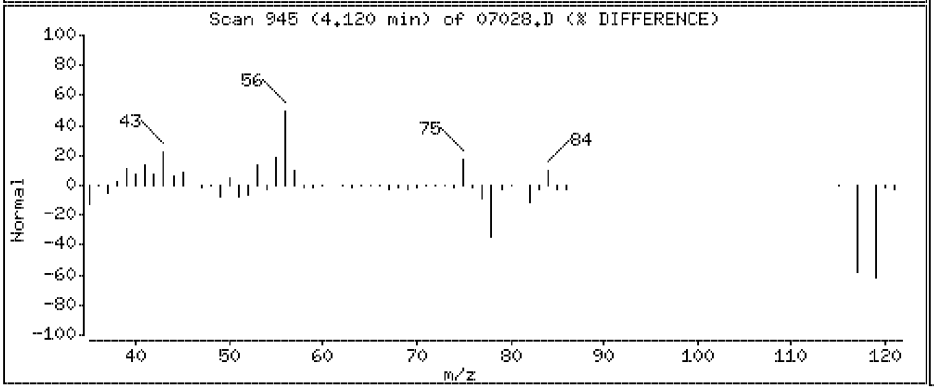
44 Cyclohexane

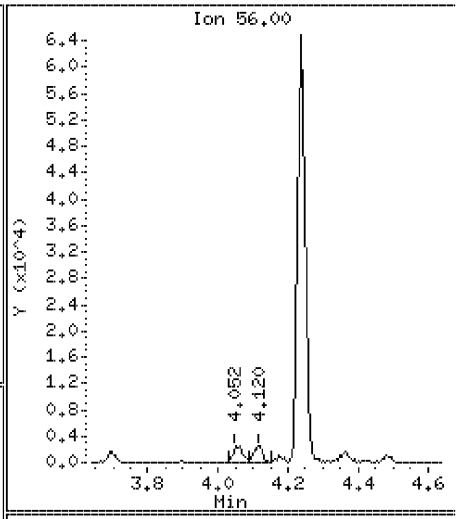
Concentration: 0.197 ppbv

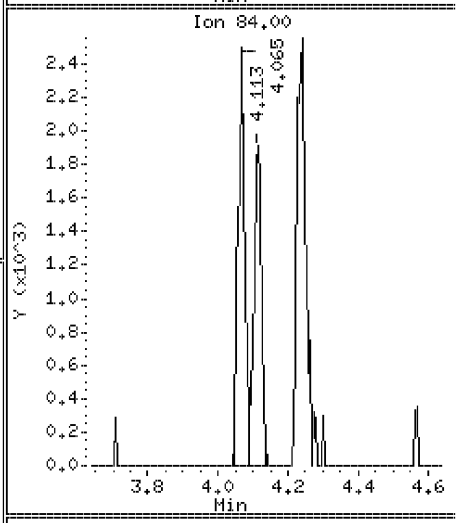


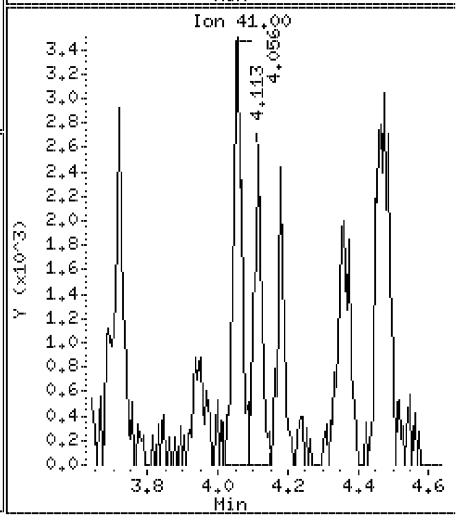












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

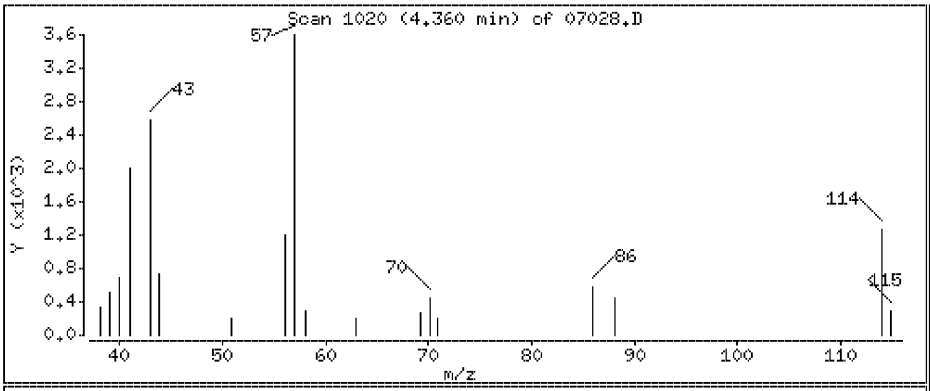
Operator: DR1

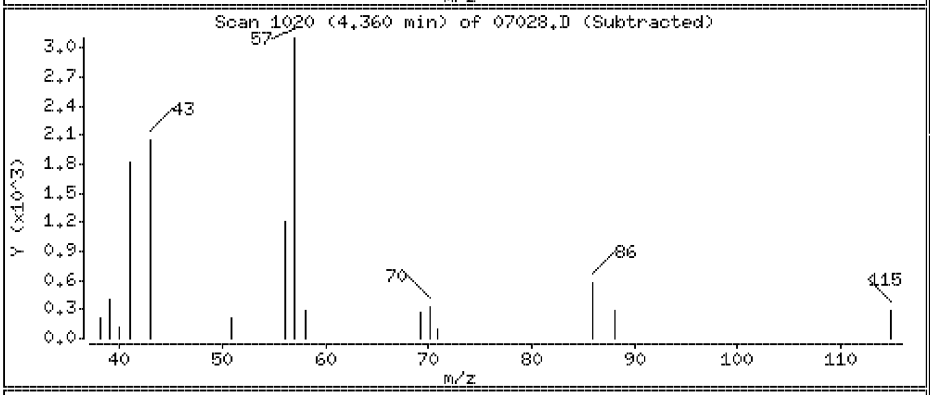
Column phase: J&W DB-5

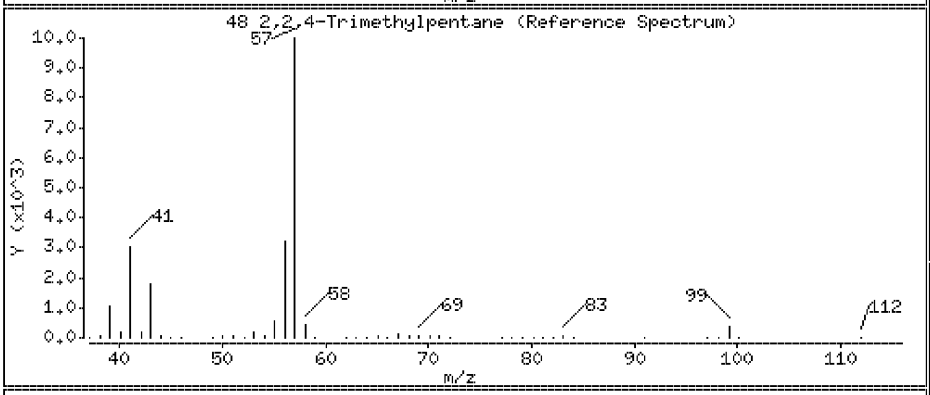
Column diameter: 0.32

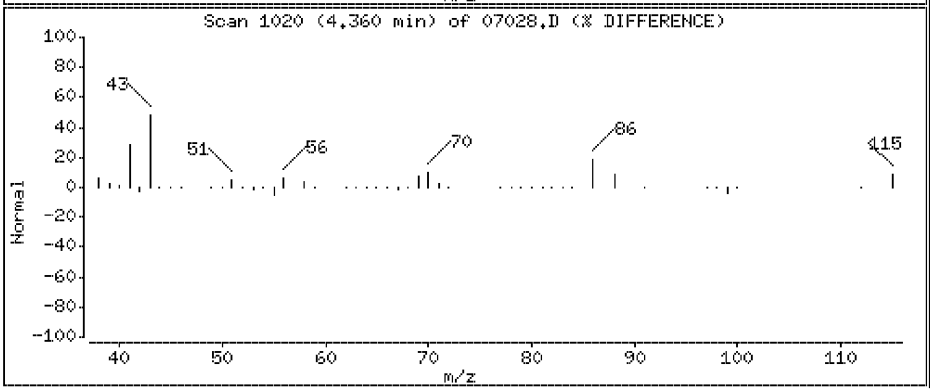
48 2,2,4-Trimethylpentane

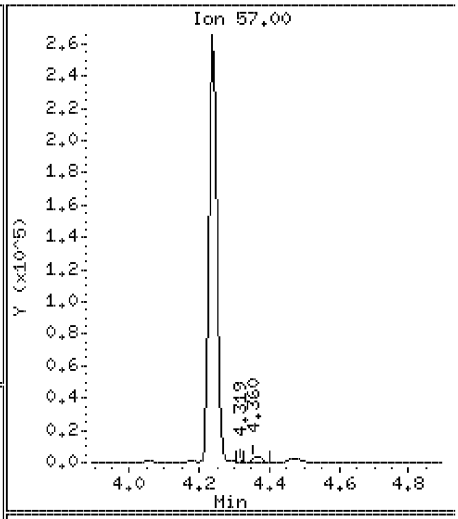
Concentration: 278 ppbv

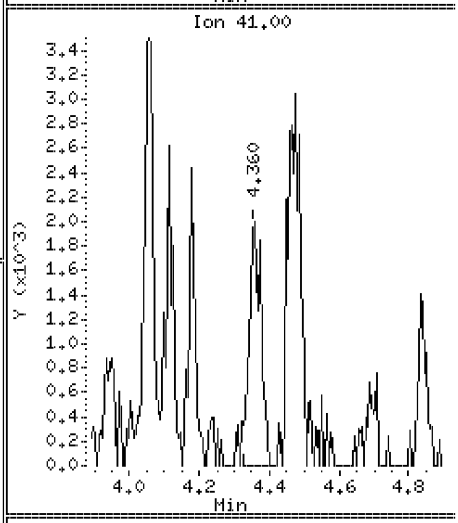


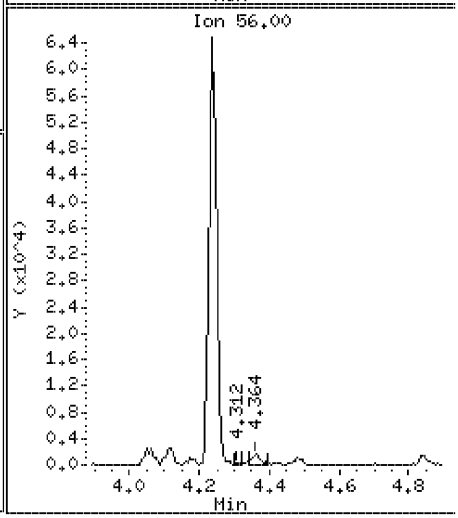












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

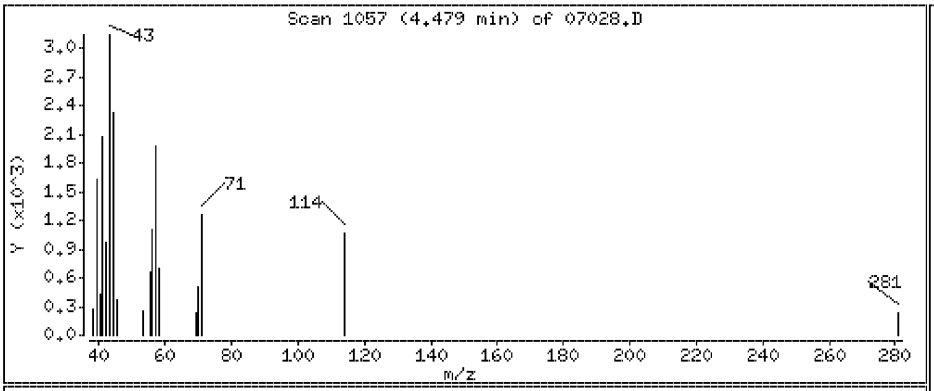
Operator: DR1

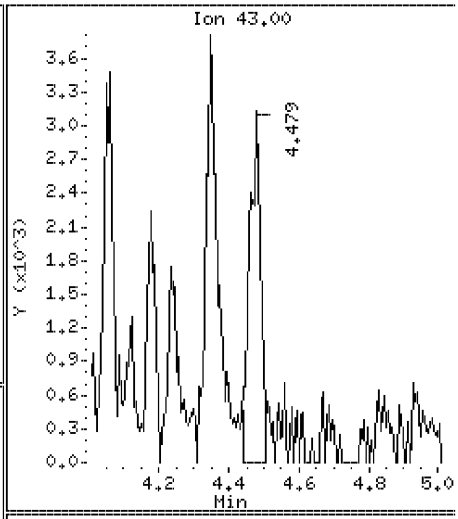
Column phase: J&W DB-5

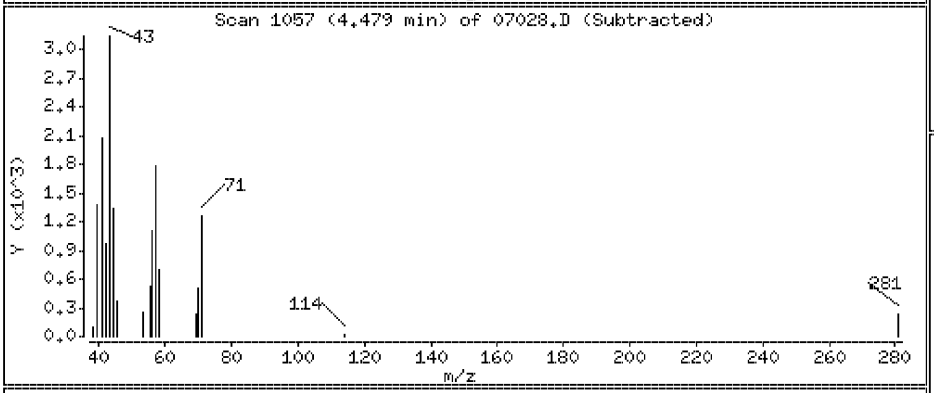
Column diameter: 0.32

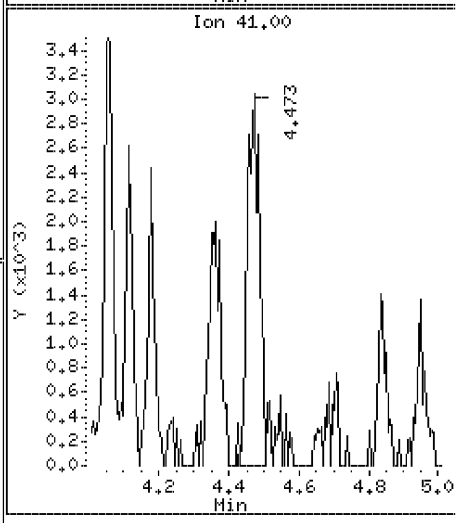
49 Heptane

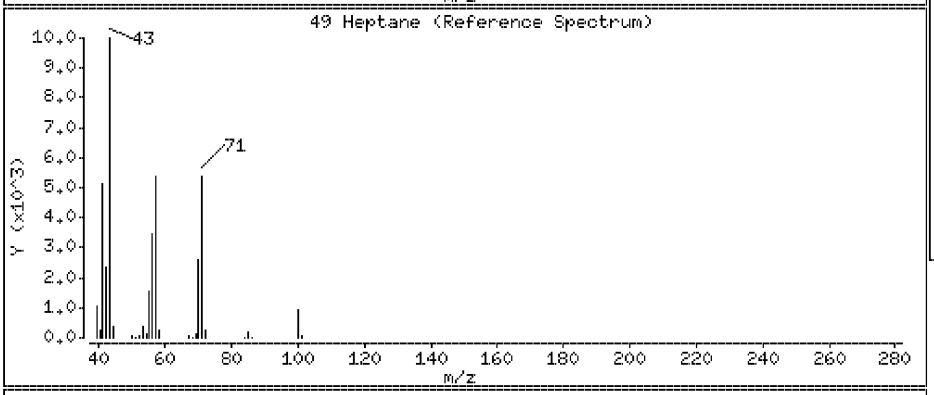
Concentration: 0.214 ppbv

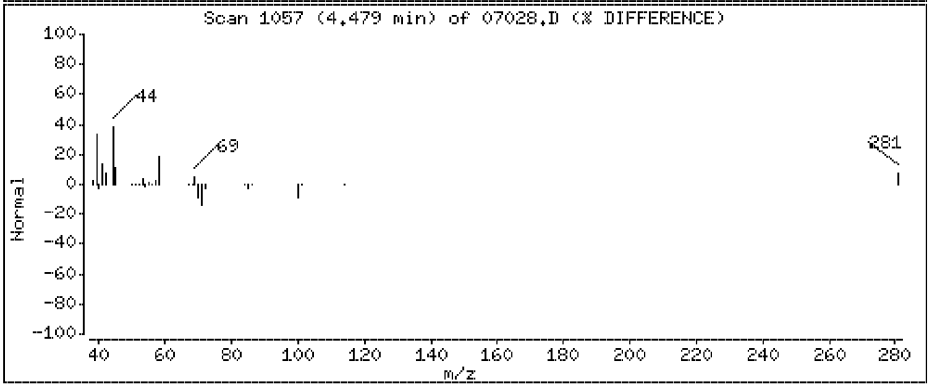












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

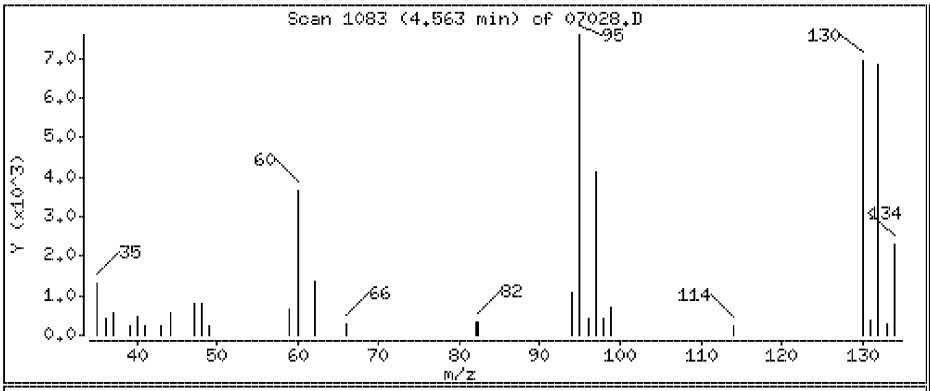
Operator: DR1

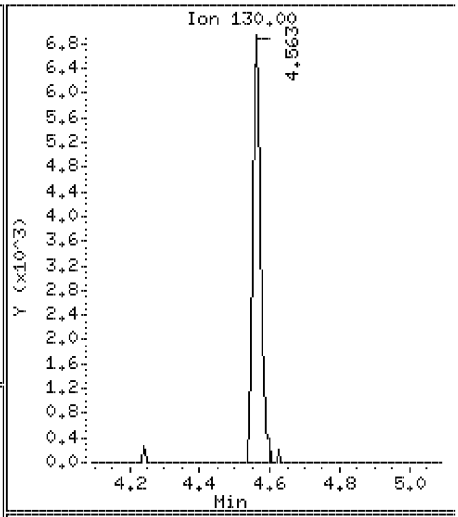
Column phase: J&W DB-5

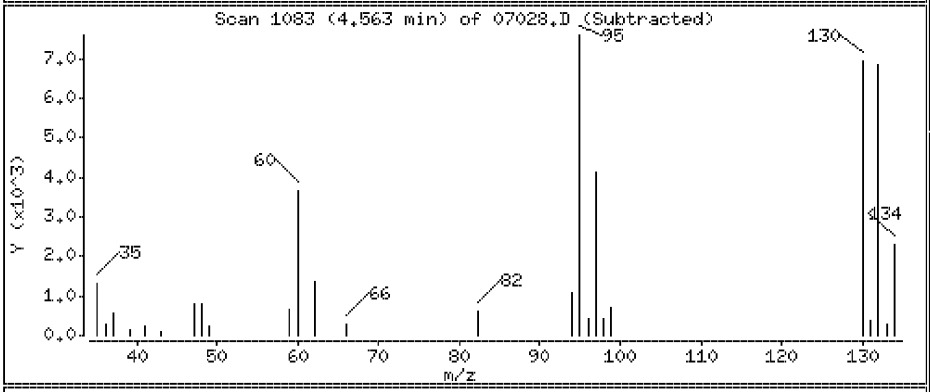
Column diameter: 0.32

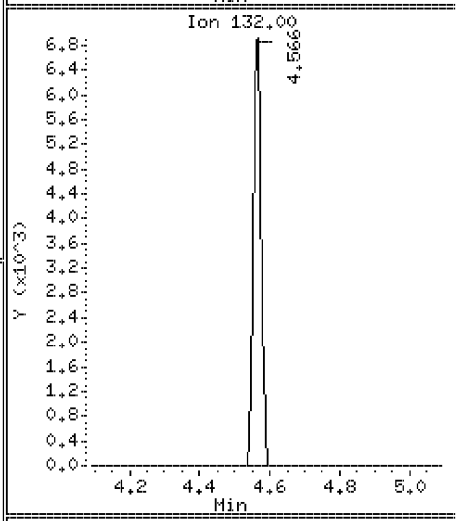
51 Trichloroethene

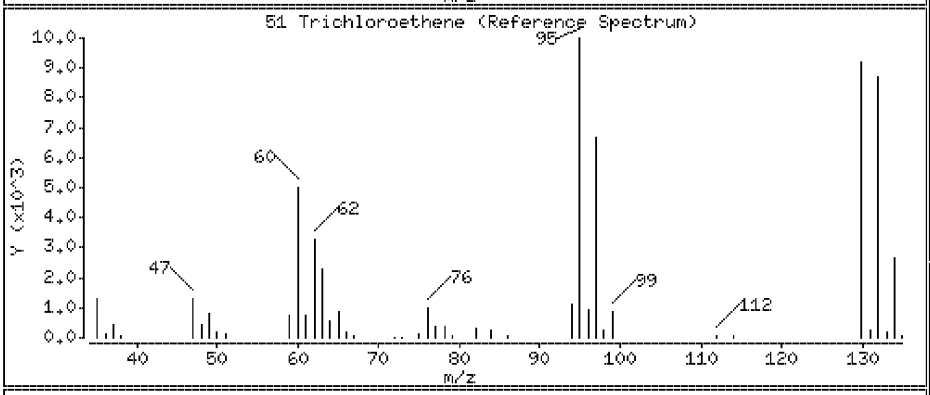
Concentration: 0.485 ppbv

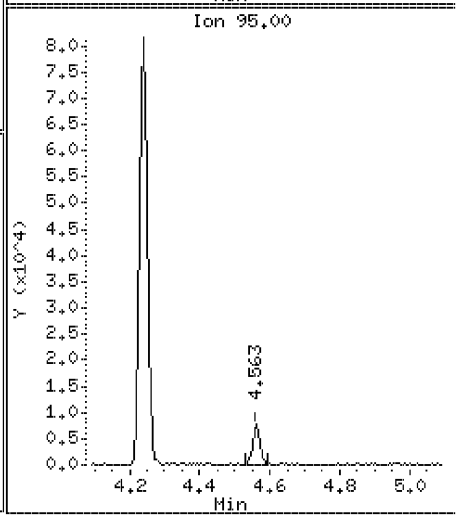


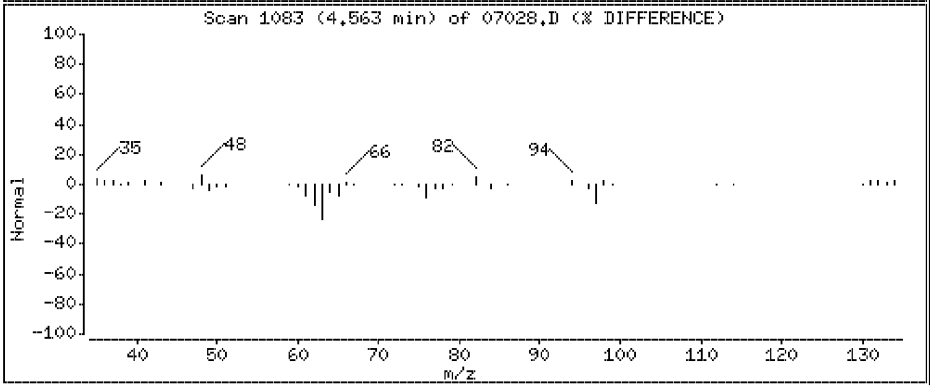












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

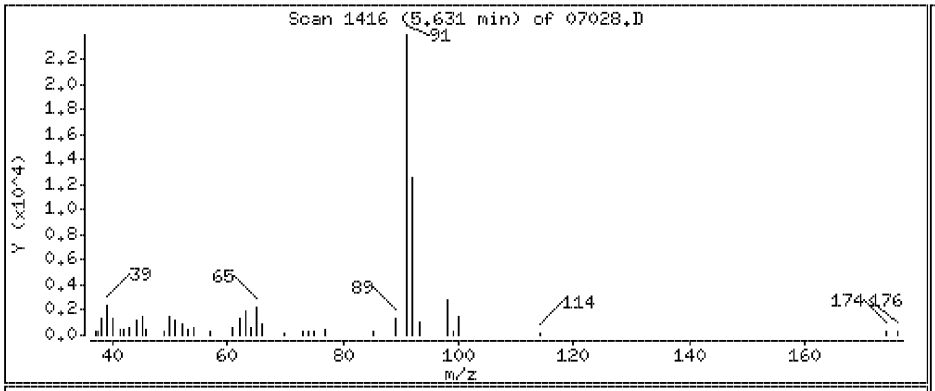
Operator: DR1

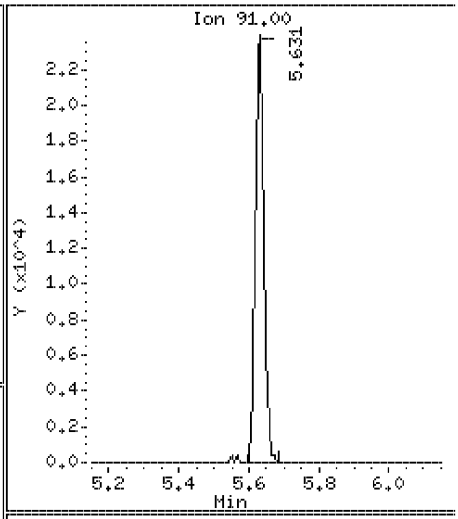
Column phase: J&W DB-5

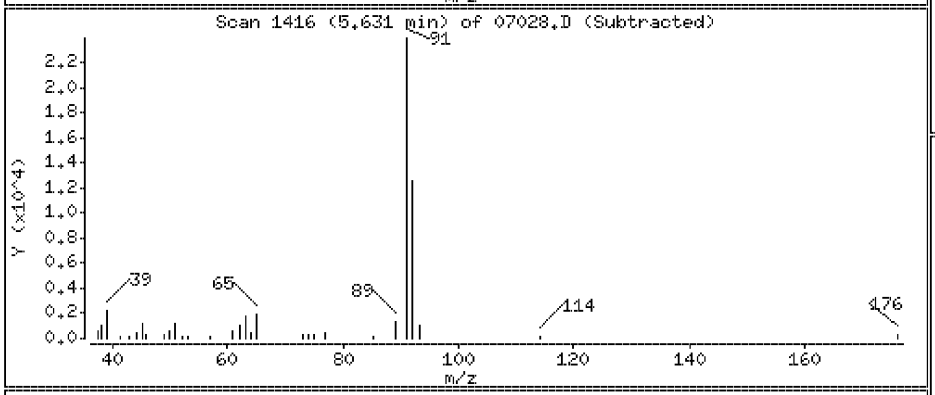
Column diameter: 0.32

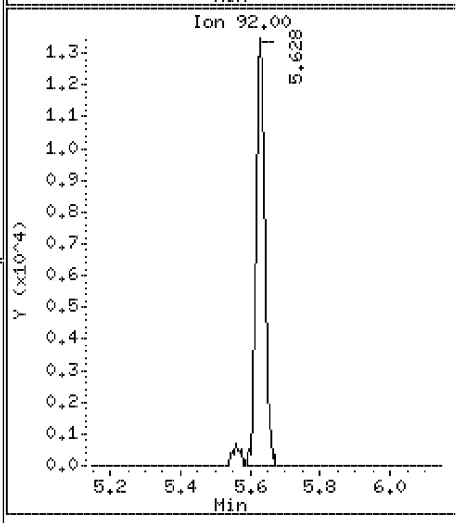
60 Toluene

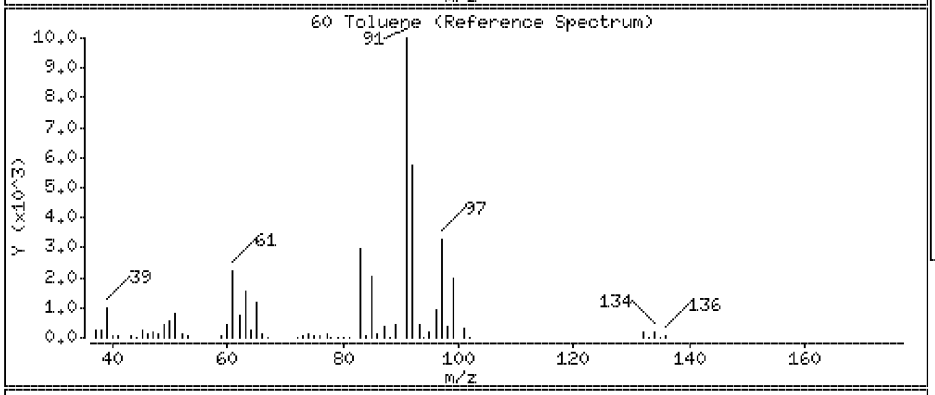
Concentration: 0.717 ppbv

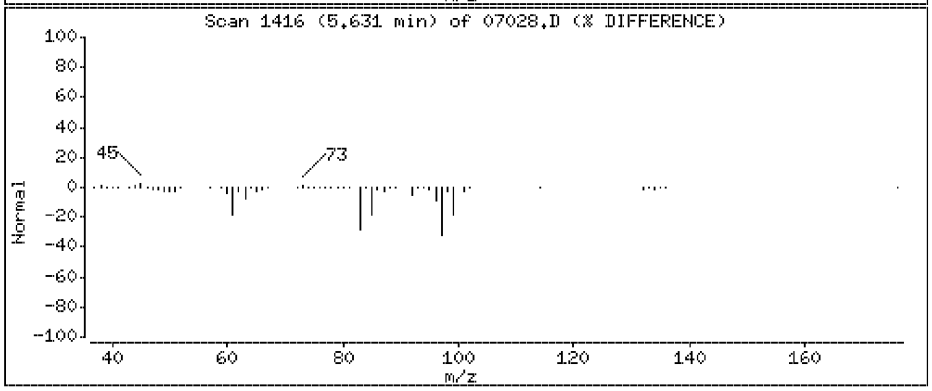












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

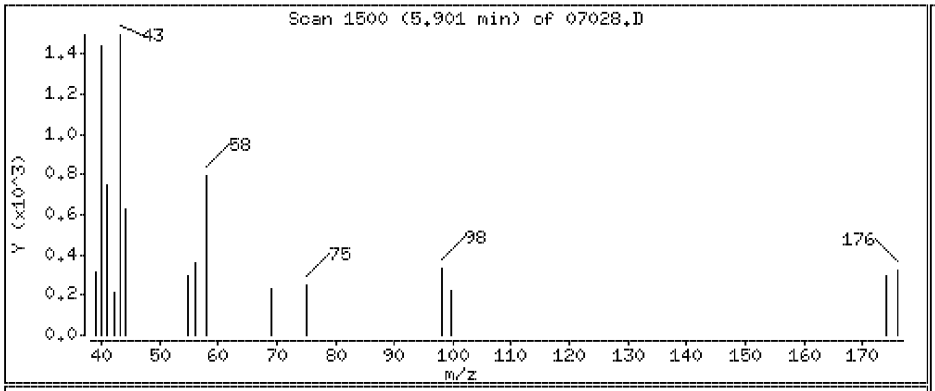
Operator: DR1

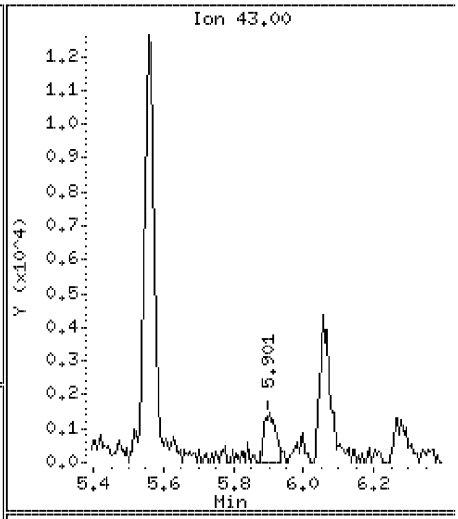
Column phase: J&W DB-5

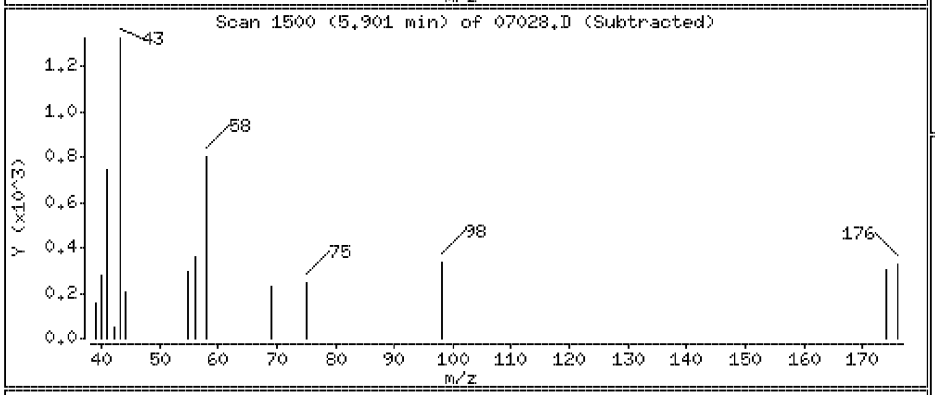
Column diameter: 0.32

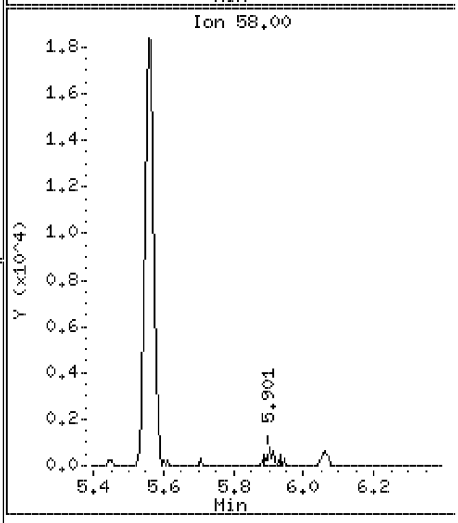
62 Methyl Butyl Ketone

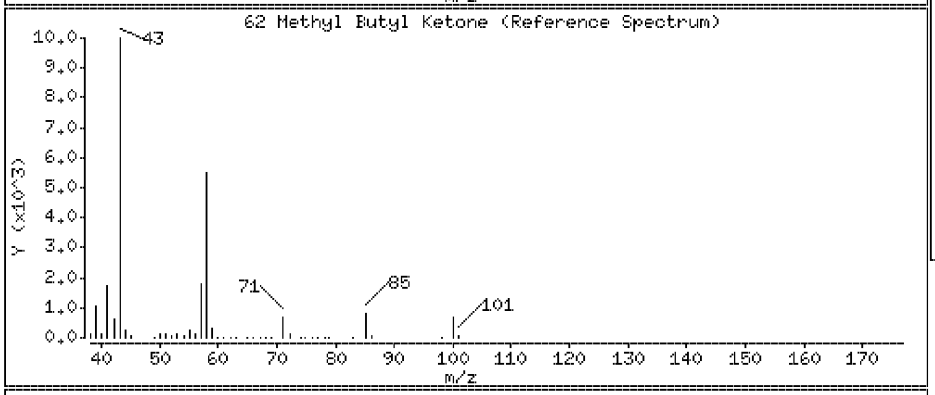
Concentration: 0.0911 ppbv

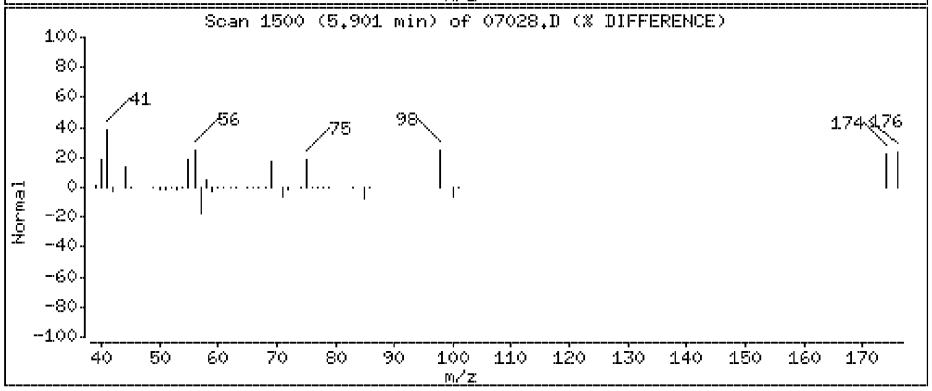












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

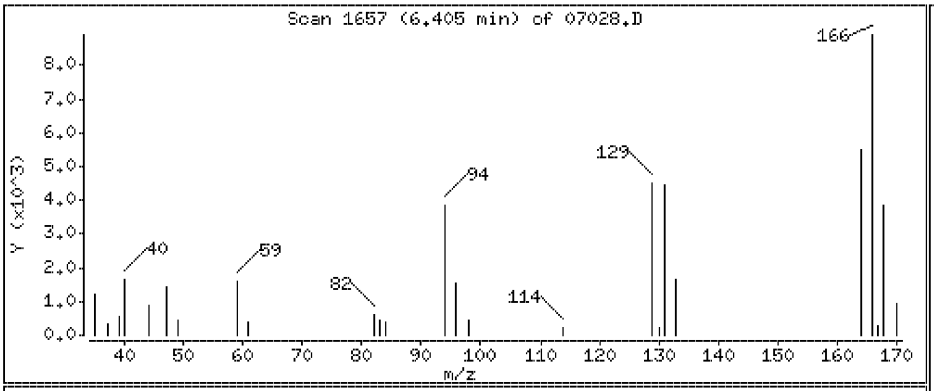
Operator: DR1

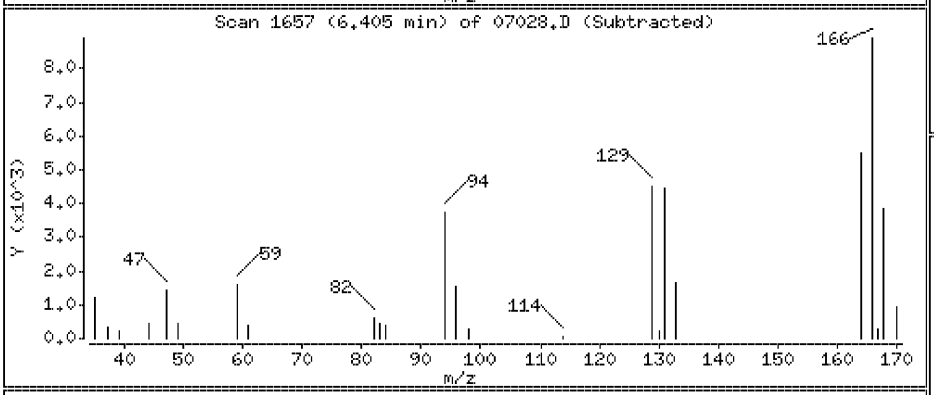
Column phase: J&W DB-5

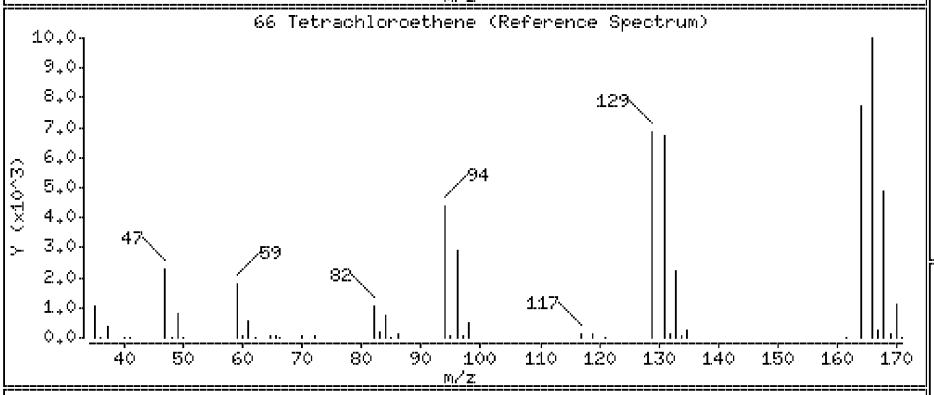
Column diameter: 0.32

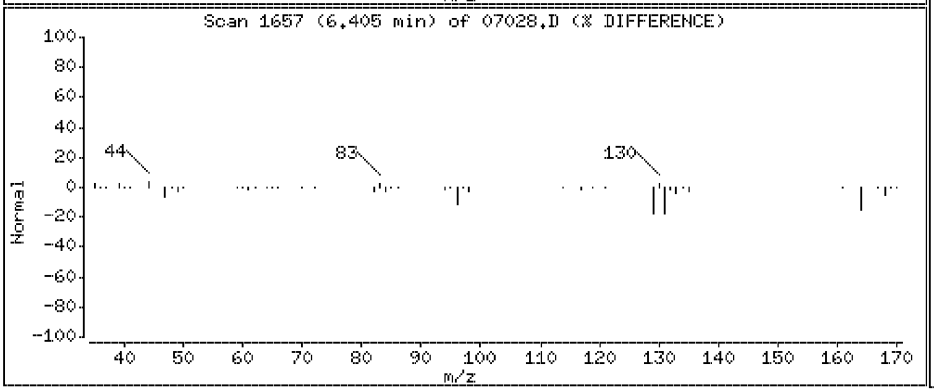
66 Tetrachloroethene

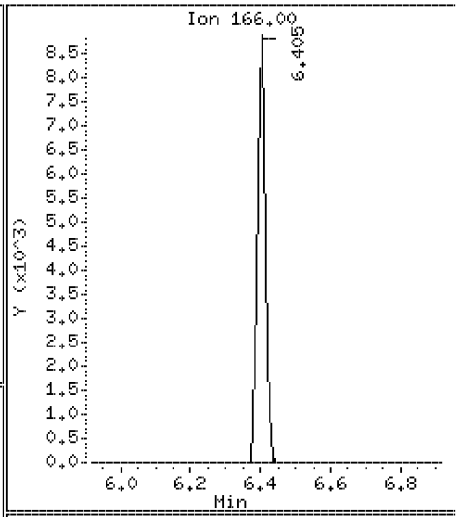
Concentration: 0.465 ppbv

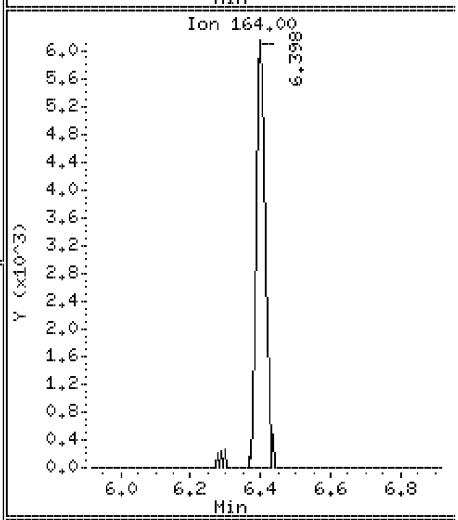


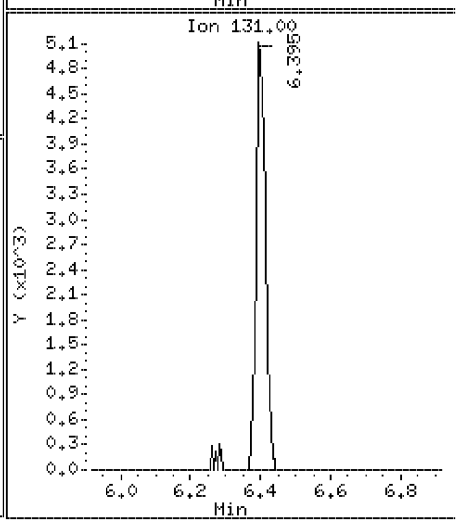












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

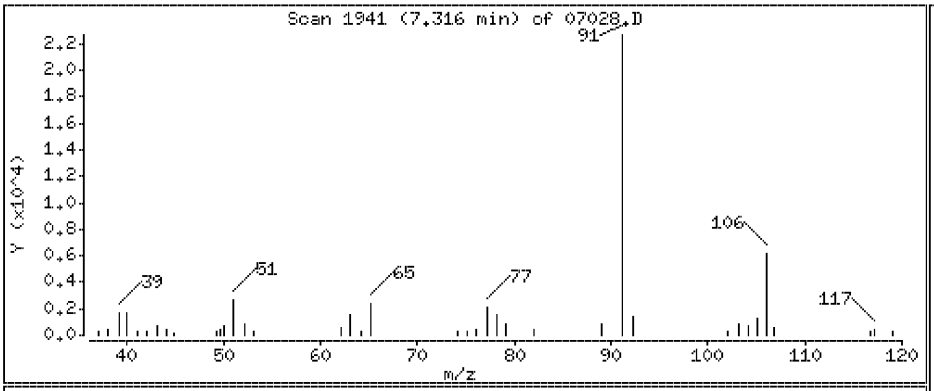
Operator: DR1

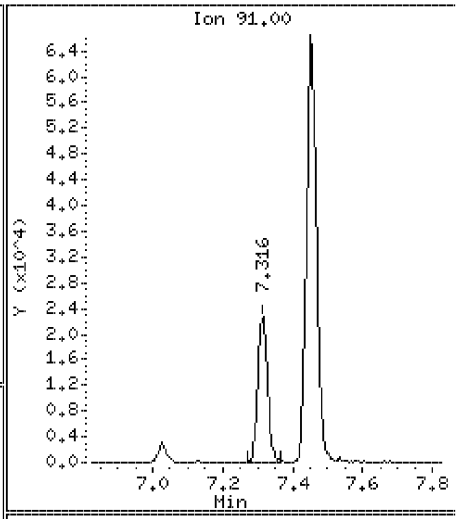
Column phase: J&W DB-5

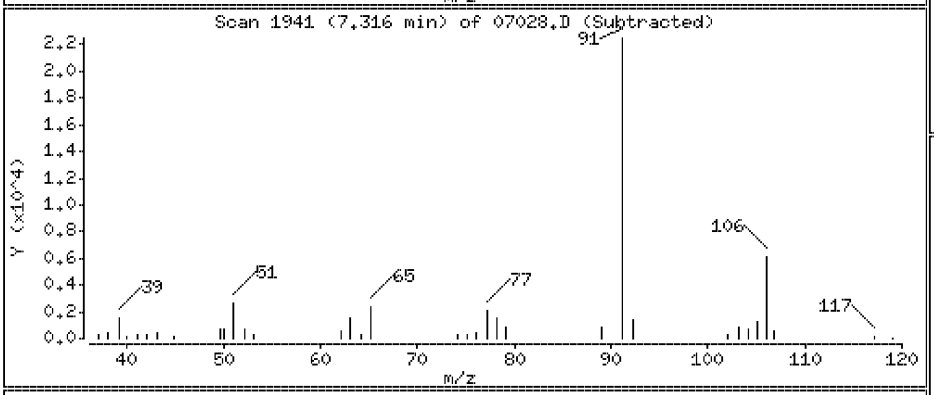
Column diameter: 0.32

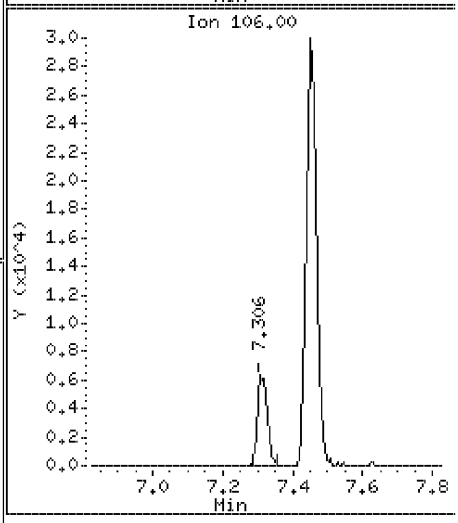
69 Ethyl Benzene

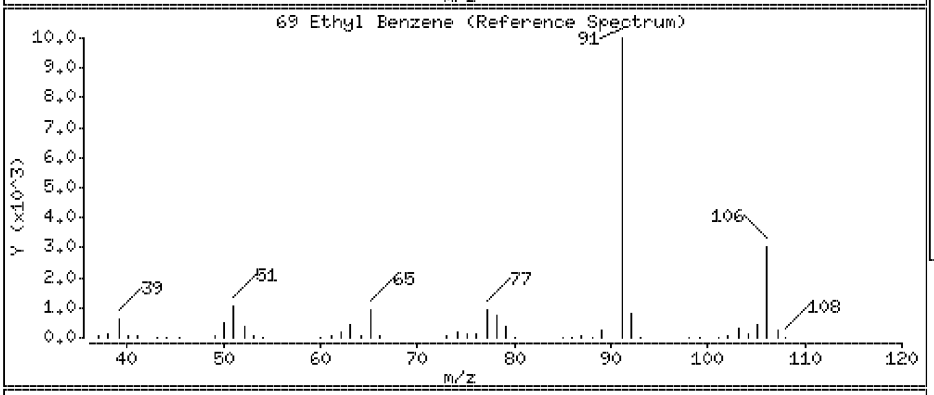
Concentration: 0.740 ppbv

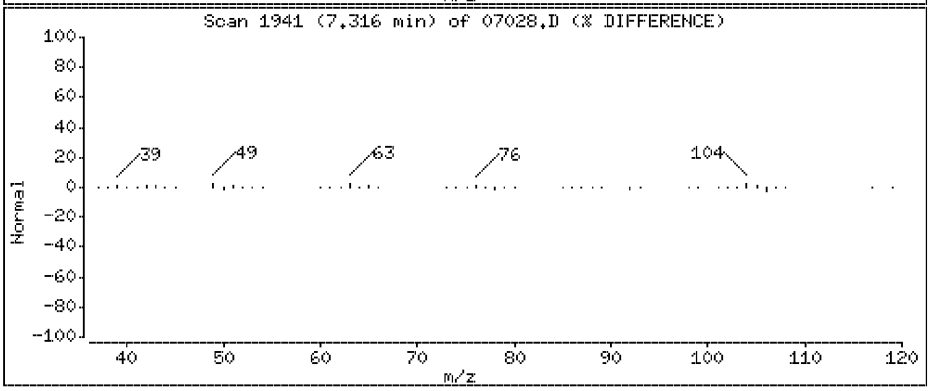












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

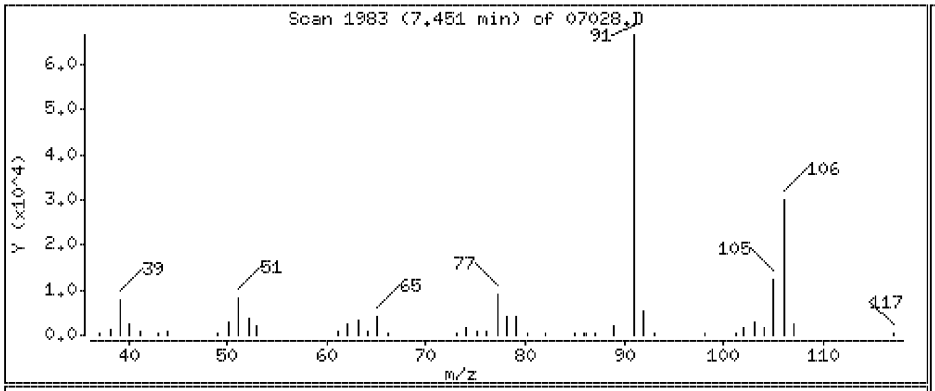
Operator: DR1

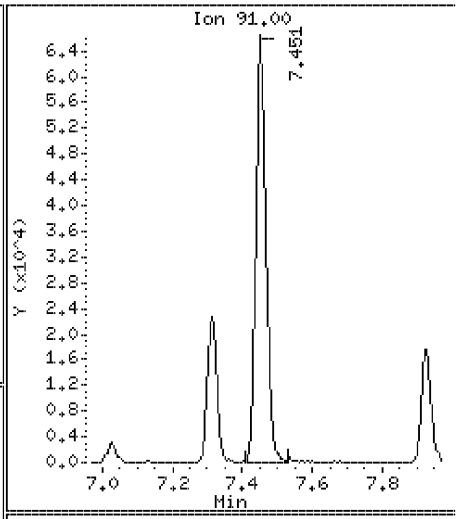
Column phase: J&W DB-5

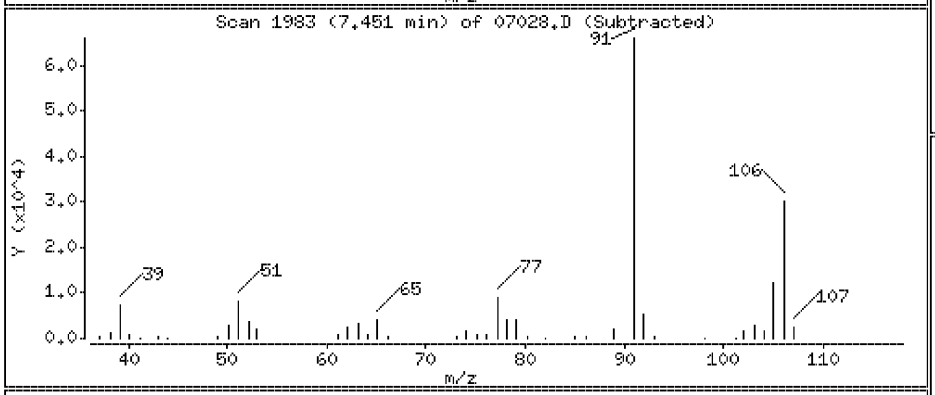
Column diameter: 0.32

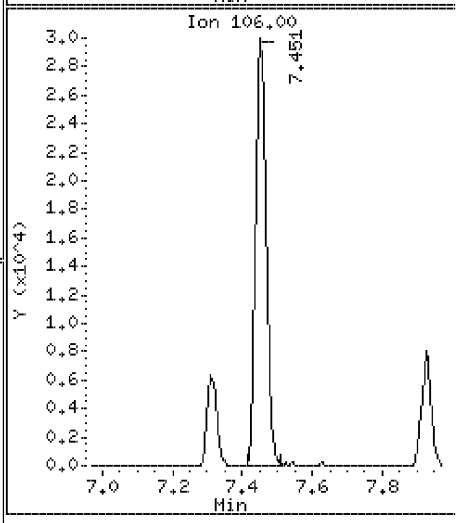
70 m&p-Xylene

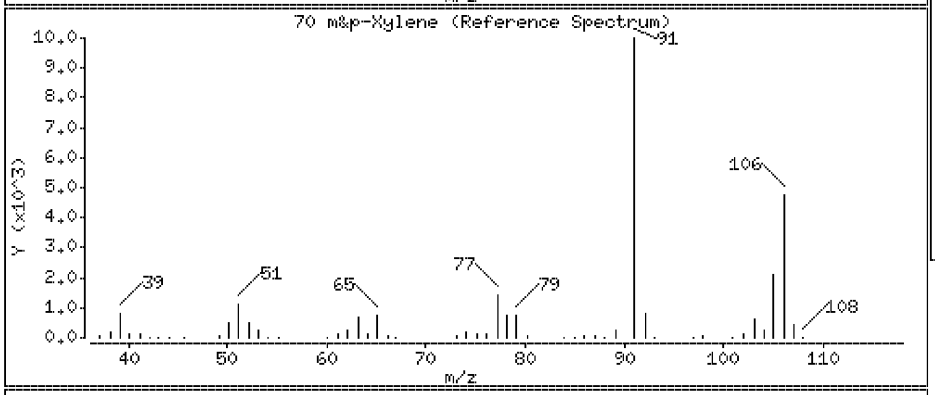
Concentration: 2.60 ppbv

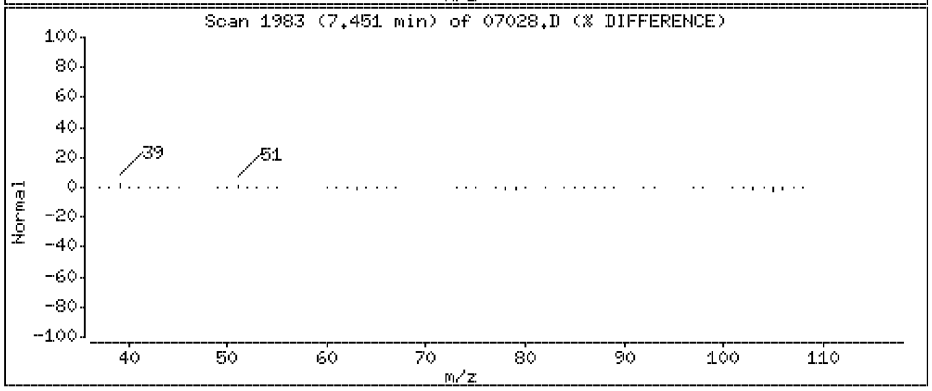












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

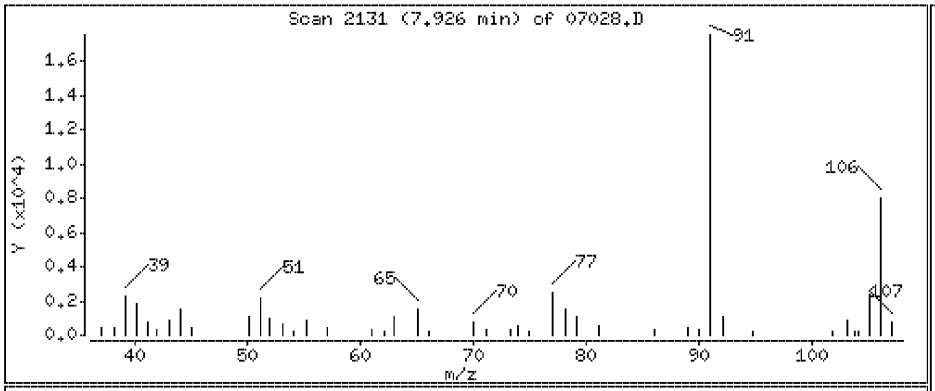
Operator: DR1

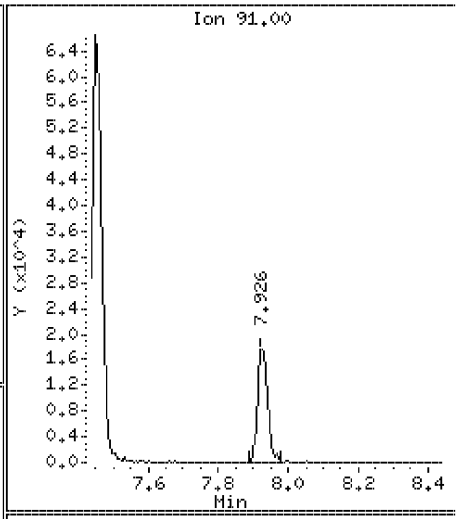
Column phase: J&W DB-5

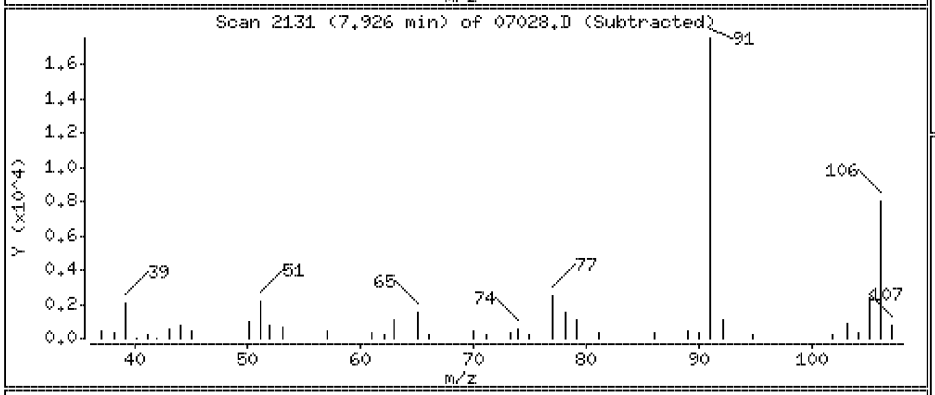
Column diameter: 0.32

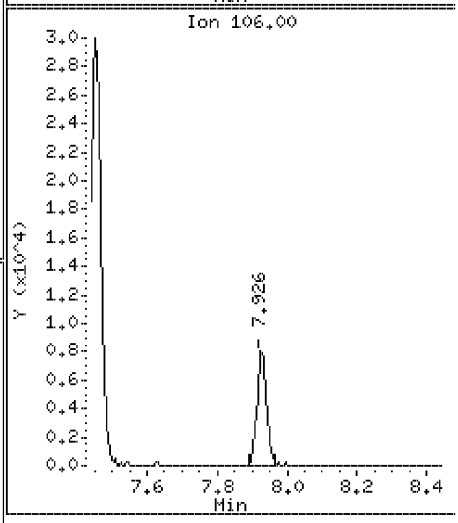
74 o-Xylene

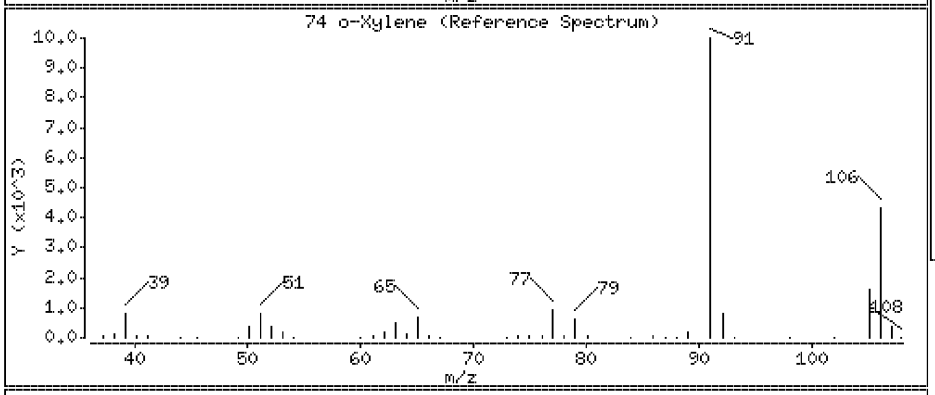
Concentration: 0.700 ppbv

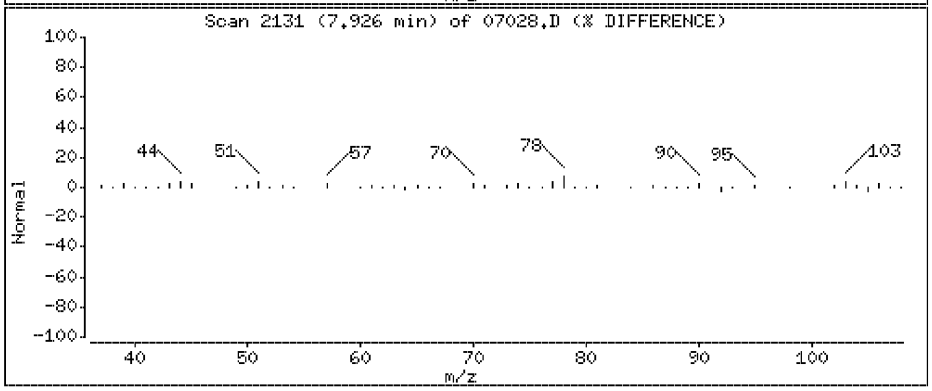












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

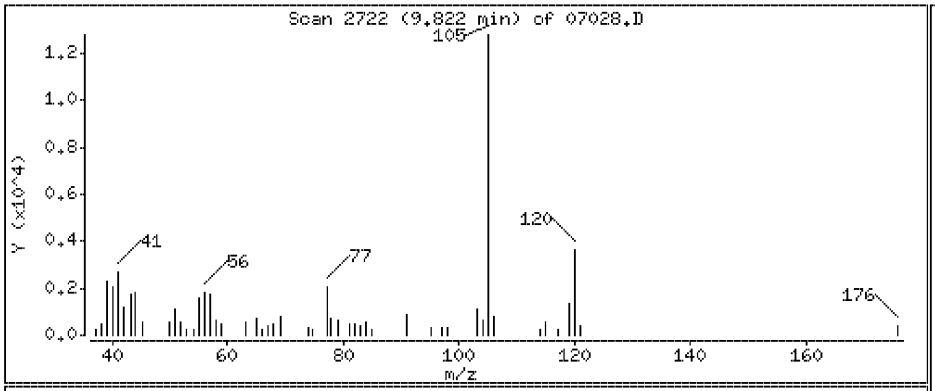
Operator: DR1

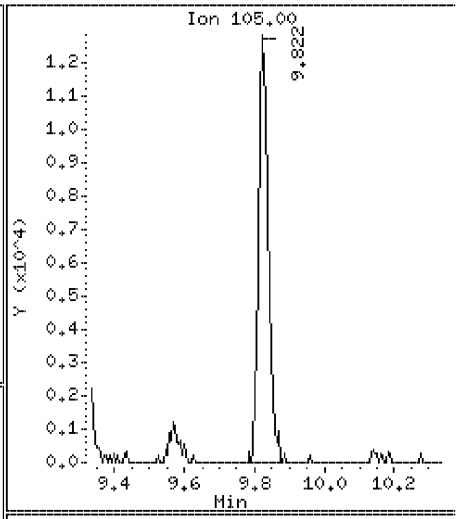
Column phase: J&W DB-5

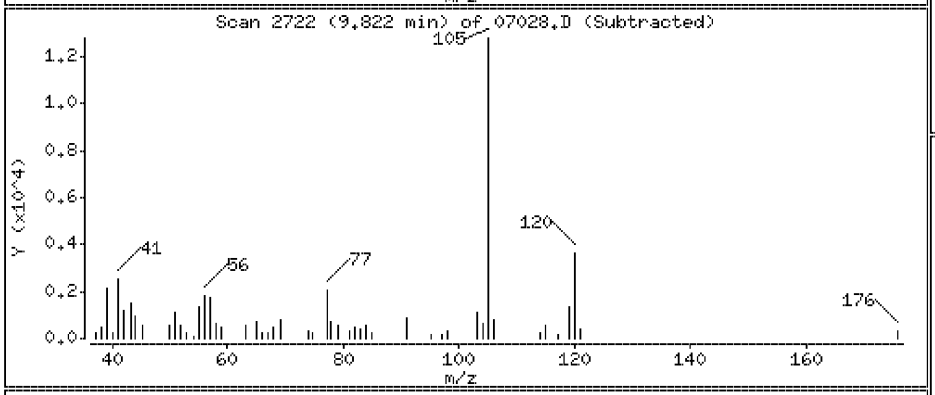
Column diameter: 0.32

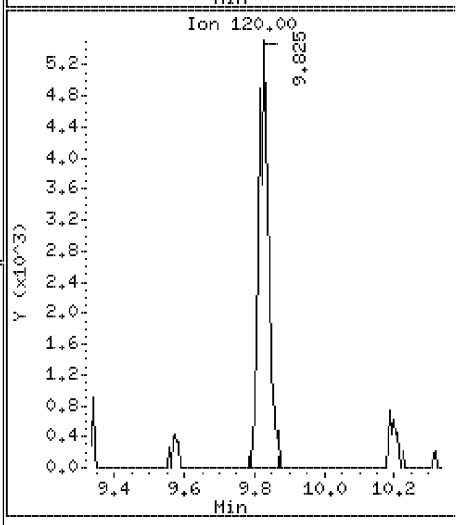
82 1,2,4-Trimethylbenzene

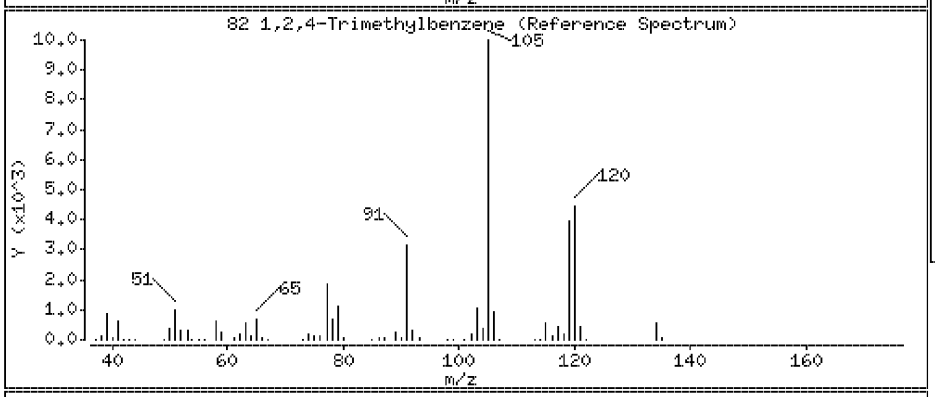
Concentration: 0.329 ppbv

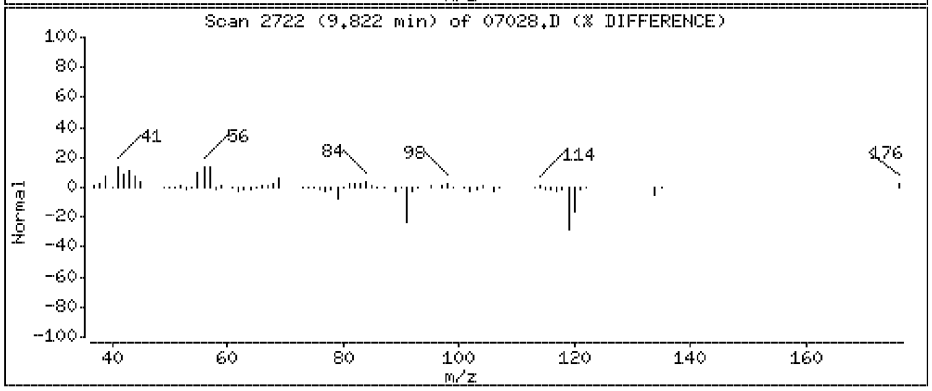












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07028.D

Date : 12-MAR-2017 00:14

Client ID:

Instrument: 10airD.i

Sample Info:

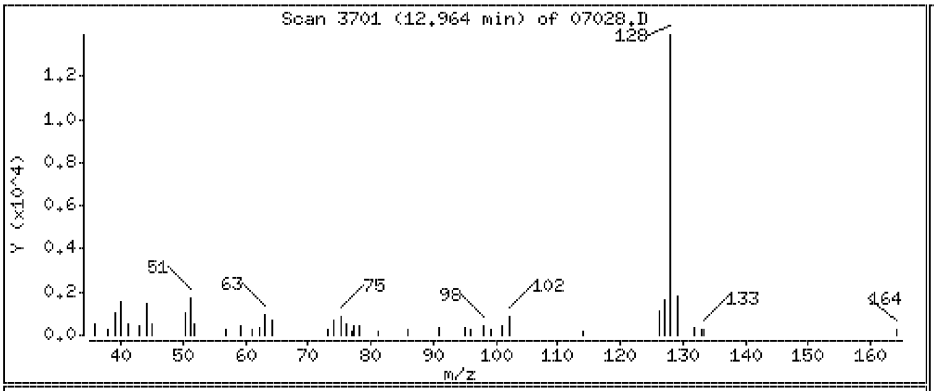
Operator: DR1

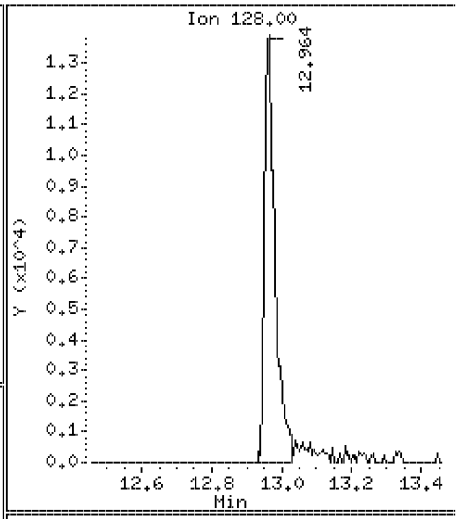
Column phase: J&W DB-5

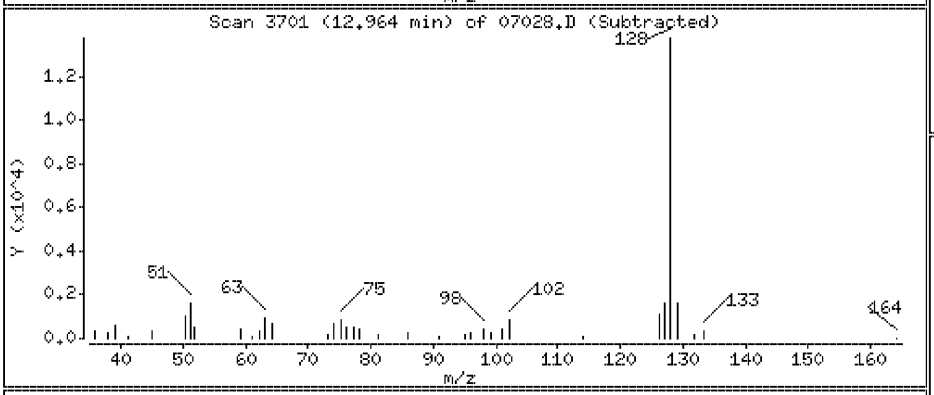
Column diameter: 0.32

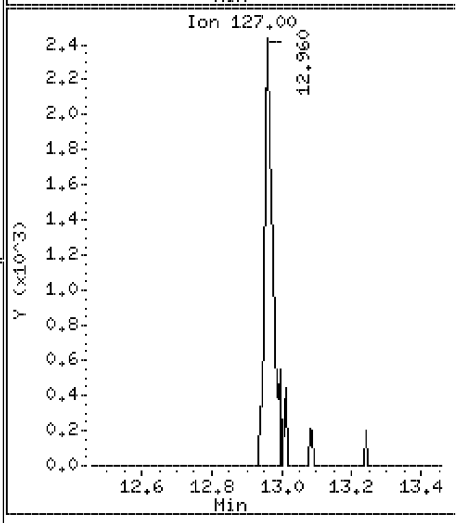
94 Naphthalene

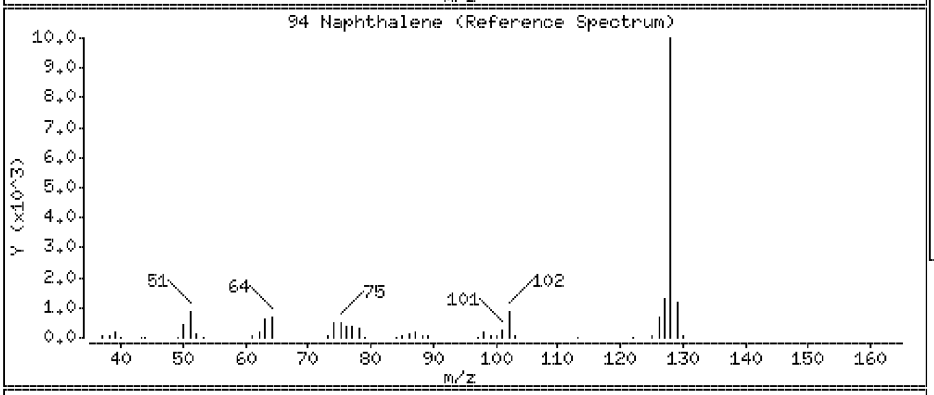
Concentration: 2.00 ppbv

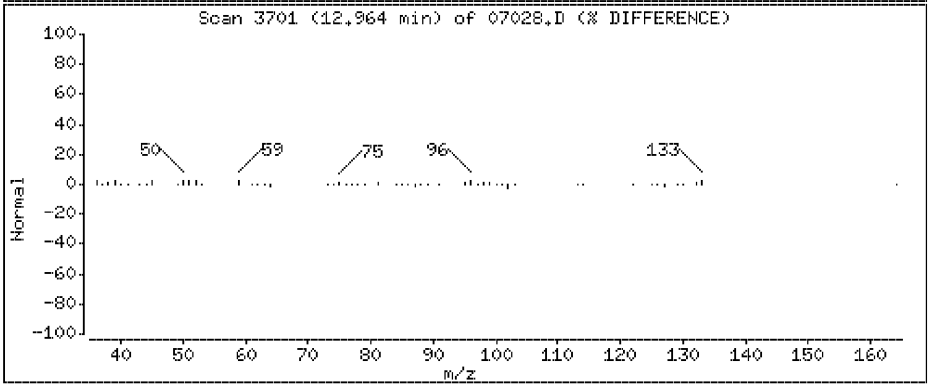












Data File: \\192.168.10.12\chem\10airD.i\031117.b/07028.d
Injection Date: 12-MAR-2017 00:14
Instrument: 10airD.i
Lab Sample ID: 10380372020
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07108.d
Report Date: 13-Mar-2017 07:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031217.b\07108.d
Lab Smp Id: 10380372020
Inj Date : 12-MAR-2017 14:10
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Meth Date : 13-Mar-2017 07:39 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 8
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: Custom.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	25 Methylene chloride	49	2.858	2.871	(0.674)	72756	2.02656	3.55
$	32 Hexane-d14(S)	66	3.262	3.272	(0.770)	1445970	8.95969	8.96
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	4.238	4.251	(1.000)	3039952	10.0000	
	51 Trichloroethene	130	Compound Not Detected.					
$	59 Toluene-d8 (S)	98	5.557	5.566	(1.311)	2898153	9.51433	9.51
	66 Tetrachloroethene	166	Compound Not Detected.					
*	67 Chlorobenzene - d5	117	7.026	7.033	(1.000)	2237836	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	10.194	10.200	(1.451)	1015748	7.40831	7.41

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07108.d
Report Date: 13-Mar-2017 07:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07108.d
Lab Smp Id: 10380372020
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 12-MAR-2017
Calibration Time: 10:04
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3039952	-19.74
67 Chlorobenzene - d	3280875	1968525	4593225	2237836	-31.79

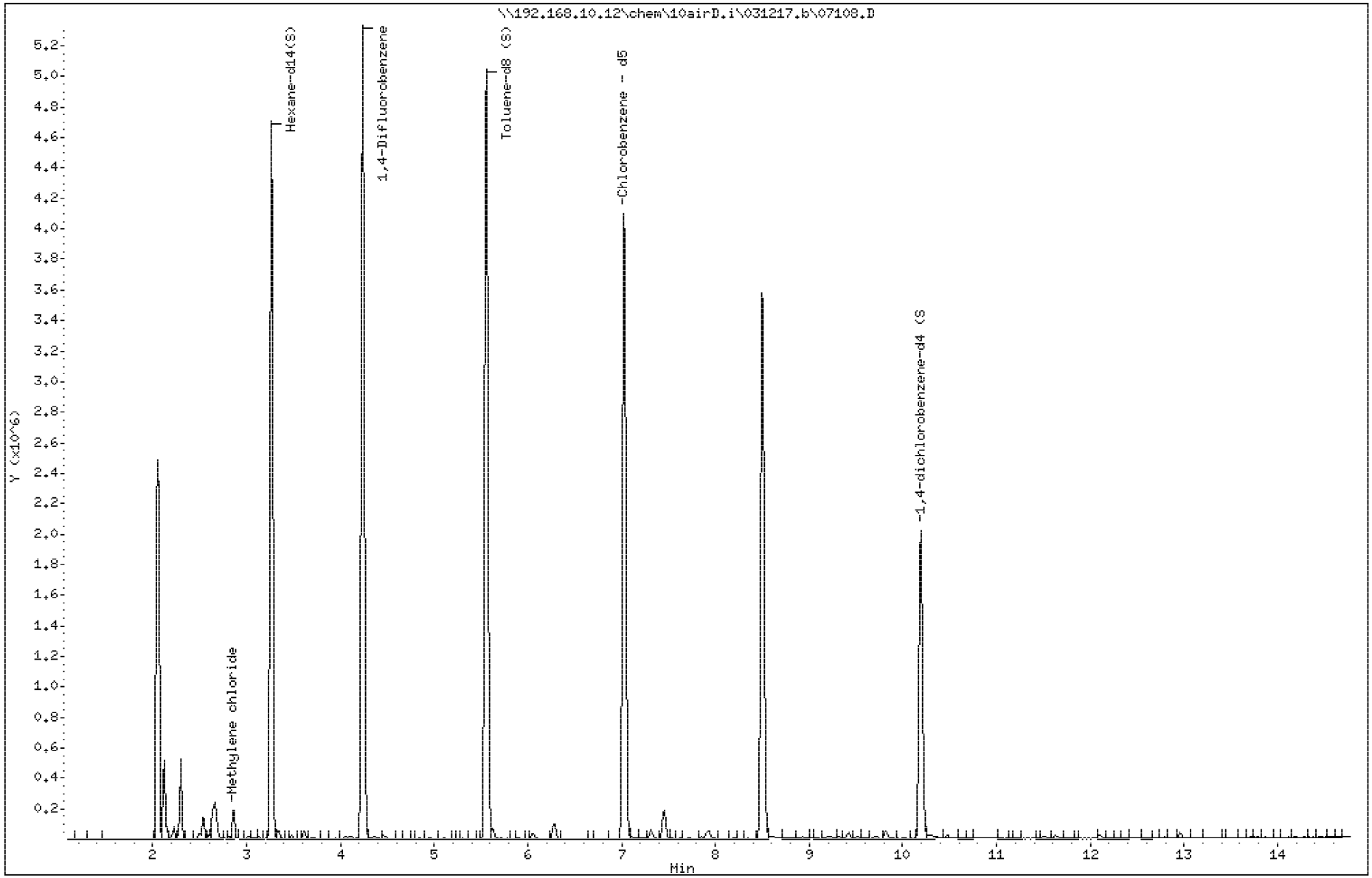
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.30
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07108.D
Date : 12-MAR-2017 14:10
Client ID:
Sample Info:

Instrument: 10airD.i

Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07108.D

Date : 12-MAR-2017 14:10

Client ID:

Instrument: 10airD.i

Sample Info:

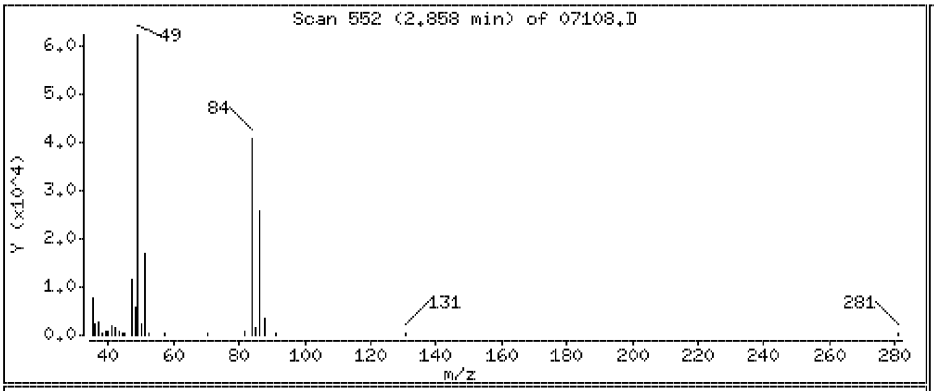
Operator: EMC

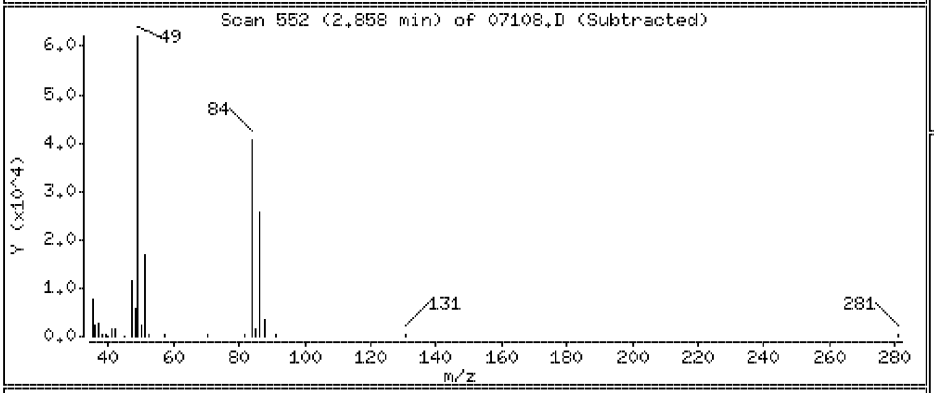
Column phase: J&W DB-5

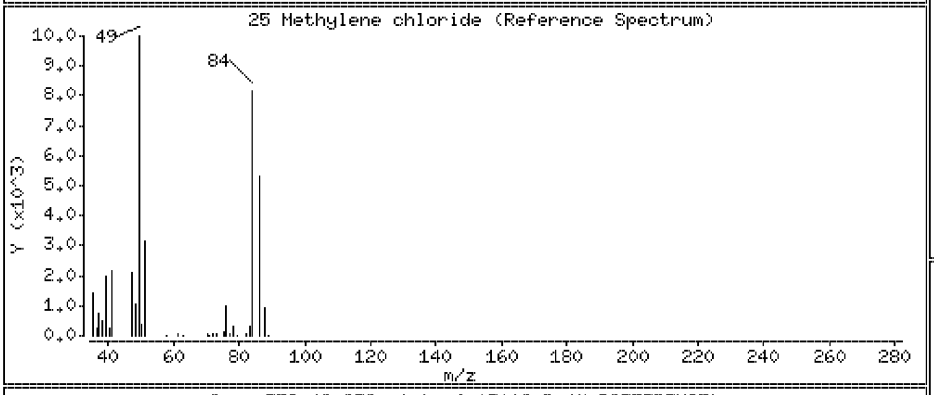
Column diameter: 0.32

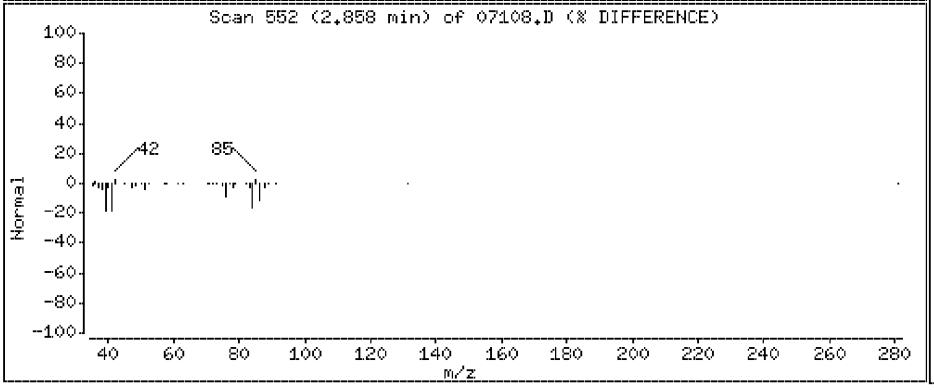
25 Methylene chloride

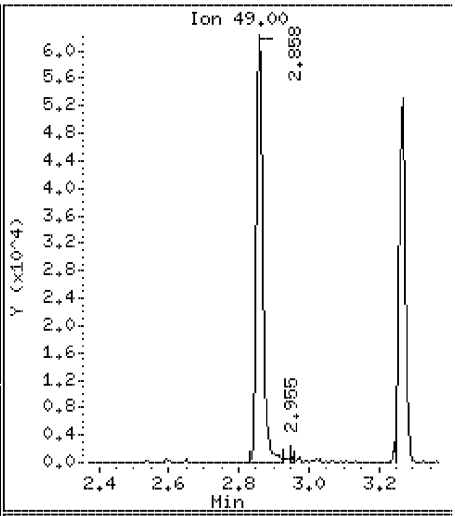
Concentration: 3.55 ppbv

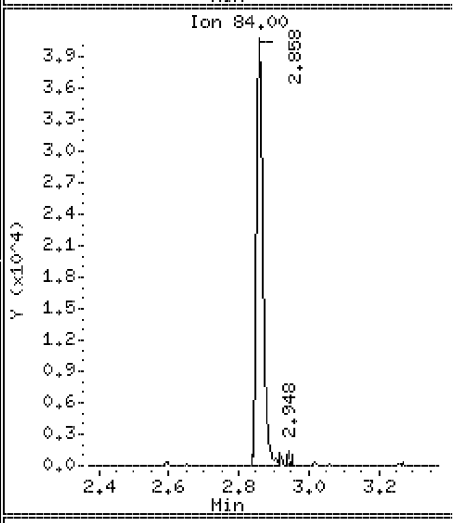


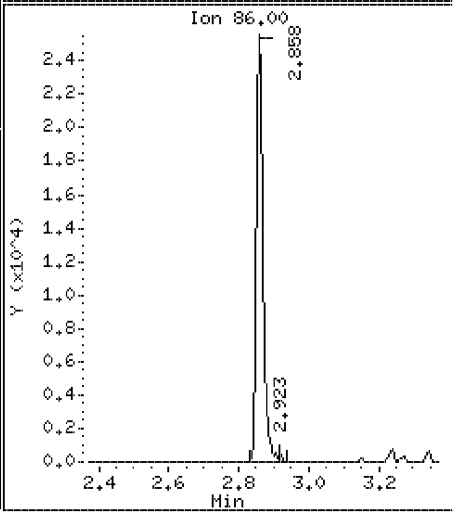












Data File: \\192.168.10.12\chem\10airD.i\031217.b/07108.d
Injection Date: 12-MAR-2017 14:10
Instrument: 10airD.i
Lab Sample ID: 10380372020
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_73.5_20170226DUP **Lab ID: 10380372021** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**17.1**	ug/m3	11.0	1.5	1.83		03/12/17 00:43	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/12/17 00:43	107-05-1	
Benzene	**0.53J**	ug/m3	0.59	0.22	1.83		03/12/17 00:43	71-43-2	
Bromodichloromethane	**0.36U**	ug/m3	2.5	0.36	1.83		03/12/17 00:43	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/12/17 00:43	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/12/17 00:43	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/12/17 00:43	106-99-0	
2-Butanone (MEK)	**1.6J**	ug/m3	5.5	0.42	1.83		03/12/17 00:43	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/12/17 00:43	75-15-0	
Carbon tetrachloride	**0.35U**	ug/m3	1.2	0.35	1.83		03/12/17 00:43	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/12/17 00:43	108-90-7	
Chlorodifluoromethane	**23.0**	ug/m3	1.3	0.51	1.83		03/12/17 00:43	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/12/17 00:43	75-00-3	
Chloroform	**0.35U**	ug/m3	0.91	0.35	1.83		03/12/17 00:43	67-66-3	
Chloromethane	**1.0**	ug/m3	0.77	0.20	1.83		03/12/17 00:43	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/12/17 00:43	76-15-3	CL
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/12/17 00:43	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/12/17 00:43	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/12/17 00:43	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/12/17 00:43	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/12/17 00:43	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/12/17 00:43	541-73-1	
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/12/17 00:43	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	0.88	1.83		03/12/17 00:43	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/12/17 00:43	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/12/17 00:43	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/12/17 00:43	75-35-4	
cis-1,2-Dichloroethene	**0.45U**	ug/m3	1.5	0.45	1.83		03/12/17 00:43	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/12/17 00:43	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/12/17 00:43	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/12/17 00:43	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/12/17 00:43	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/12/17 00:43	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/12/17 00:43	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/12/17 00:43	123-91-1	
Ethylbenzene	**2.4**	ug/m3	1.6	0.78	1.83		03/12/17 00:43	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/12/17 00:43	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/12/17 00:43	87-68-3	
n-Hexane	**2.0**	ug/m3	1.3	0.65	1.83		03/12/17 00:43	110-54-3	
2-Hexanone	**0.75U**	ug/m3	7.6	0.75	1.83		03/12/17 00:43	591-78-6	
Isopropylbenzene (Cumene)	**0.25U**	ug/m3	4.6	0.25	1.83		03/12/17 00:43	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/12/17 00:43	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/12/17 00:43	108-87-2	
Methylene Chloride	**9.5**	ug/m3	6.5	0.99	1.83		03/12/17 00:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/12/17 00:43	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/12/17 00:43	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_73.5_20170226DUP **Lab ID: 10380372021** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**30.4**	ug/m3	4.6	0.44	1.83		03/12/17 00:43	67-63-0	
Styrene	**0.35U**	ug/m3	1.6	0.35	1.83		03/12/17 00:43	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/12/17 00:43	79-34-5	
Tetrachloroethene	**1.2J**	ug/m3	1.3	0.51	1.83		03/12/17 00:43	127-18-4	
Toluene	**2.7**	ug/m3	1.4	0.28	1.83		03/12/17 00:43	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/12/17 00:43	120-82-1	
1,1,1-Trichloroethane	**0.45U**	ug/m3	2.0	0.45	1.83		03/12/17 00:43	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/12/17 00:43	79-00-5	
Trichloroethene	**0.82J**	ug/m3	1.0	0.51	1.83		03/12/17 00:43	79-01-6	
Trichlorofluoromethane	**1.6J**	ug/m3	2.1	0.24	1.83		03/12/17 00:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.55U**	ug/m3	2.9	0.55	1.83		03/12/17 00:43	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	1.8	0.23	1.83		03/12/17 00:43	95-63-6	
1,3,5-Trimethylbenzene	**0.77J**	ug/m3	1.8	0.33	1.83		03/12/17 00:43	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/12/17 00:43	75-01-4	
m&p-Xylene	**7.6**	ug/m3	3.2	1.4	1.83		03/12/17 00:43	179601-23-1	
o-Xylene	**2.3**	ug/m3	1.6	0.64	1.83		03/12/17 00:43	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.d
Report Date: 12-Mar-2017 10:55

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07029.d
Lab Smp Id: 10380372021
Inj Date : 12-MAR-2017 00:43
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 29
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.123	2.155	(0.501)	25865	3.49924	6.40(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	2.149	2.165	(0.507)	21854	0.32466	0.594	
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
7	Chloromethane	50	2.219	2.235	(0.524)	8578	0.27172	0.497	
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	2.495	2.521	(0.589)	49230	10.4732	19.2	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	2.537	2.592	(0.599)	24979	0.85158	1.56(QH)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	2.598	2.614	(0.613)	10496	0.14905	0.273	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	2.640	2.653	(0.623)	171458	3.86581	7.07	
19	Isopropyl Alcohol	45	2.669	2.688	(0.630)	158345	6.63910	12.1(Q)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
22	Freon 113	101	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.d
Report Date: 12-Mar-2017 10:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						
	25 Methylene chloride	49	2.861	2.871	(0.675)	56136	1.47091	2.69	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.266	3.275	(0.771)	1480146	9.10629	9.11	
	33 Methyl Ethyl Ketone	72	3.339	3.359	(0.788)	2819	0.28959	0.530(Q)	
	34 n-Hexane	57	3.343	3.352	(0.789)	10741	0.30518	0.558(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	37 Ethyl Acetate	43	3.481	3.490	(0.821)	12582	0.22343	0.409(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	4.093	4.100	(0.966)	6040	0.08965	0.164(H)	
	45 Carbon tetrachloride	117	Compound Not Detected.						
	44 Cyclohexane	56	4.113	4.126	(0.970)	2714	0.07803	0.143(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.238	4.247	(1.000)	3061704	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	4.549	4.559	(1.073)	354	0.01141	0.0209(aQ)	
	51 Trichloroethene	130	4.565	4.568	(1.077)	3022	0.08171	0.150	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.563	(1.312)	2901268	9.45689	9.46	
	60 Toluene	91	5.631	5.631	(1.329)	35503	0.39225	0.718	
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	6.054	6.051	(0.862)	11298	0.20524	0.376(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	6.407	6.404	(0.912)	4565	0.09309	0.170	
*	67 Chlorobenzene - d5	117	7.026	7.030	(1.000)	2218298	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	29083	0.29880	0.547	
	70 m&p-Xylene	91	7.456	7.460	(1.061)	81976	0.94458	1.73	
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	7.854	7.858	(1.118)	7390	0.14549	0.266	
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	7.931	7.928	(1.129)	23239	0.28961	0.530	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.d
Report Date: 12-Mar-2017 10:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	9.311	9.318	(1.325)	9676	0.08431	0.154	
80	n-Decane	57	9.722	9.722	(2.294)	7056	0.14180	0.260	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	9.818	9.825	(1.397)	22008	0.17745	0.325	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1170142	8.60954	8.61	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	12.963	12.960	(1.845)	16145	0.69454	1.27(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.d
Report Date: 12-Mar-2017 10:55

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07029.d
Lab Smp Id: 10380372021
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

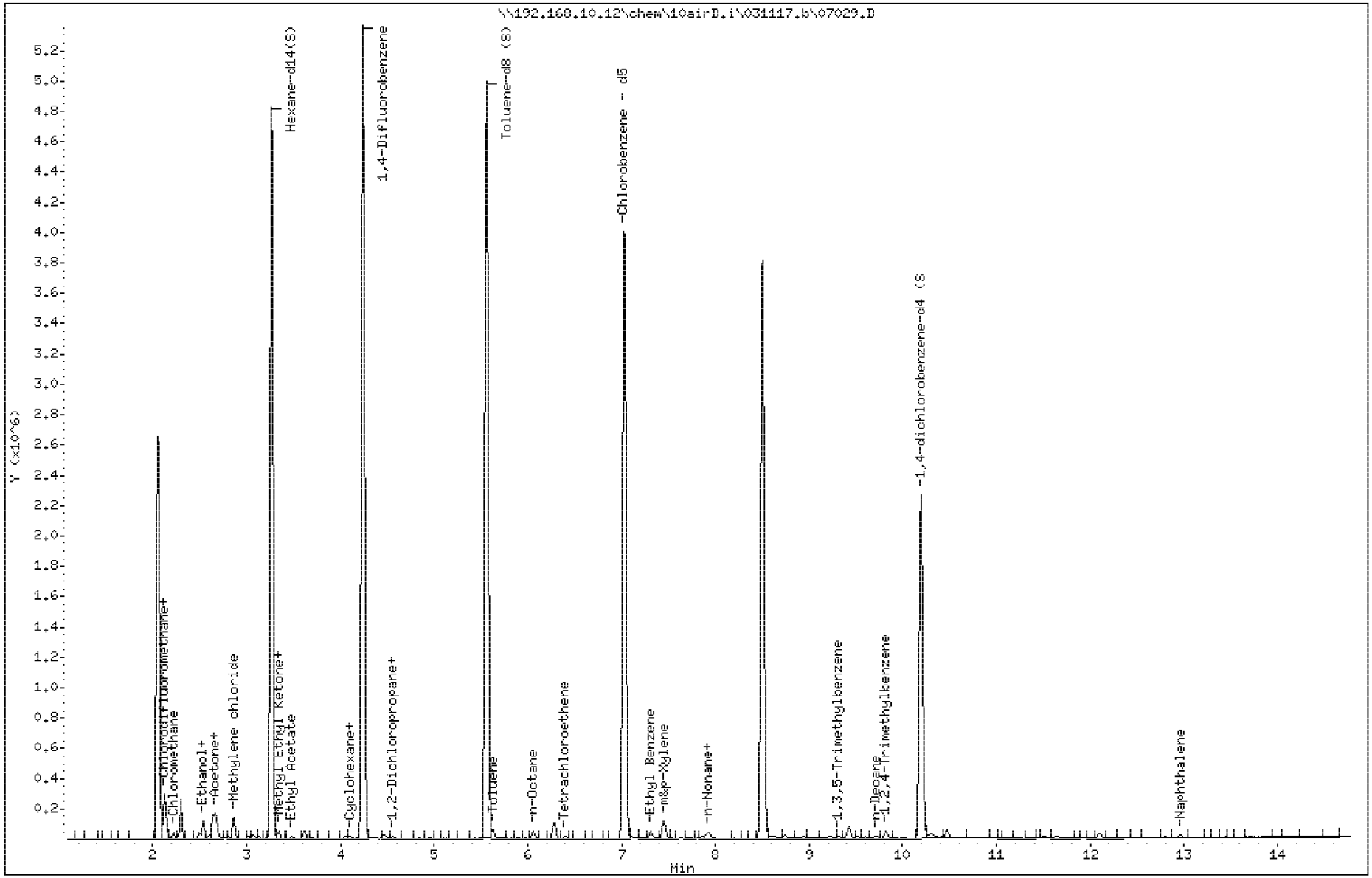
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3061704	-19.16
67 Chlorobenzene - d	3280875	1968525	4593225	2218298	-32.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.23
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D
Date : 12-MAR-2017 00:43
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

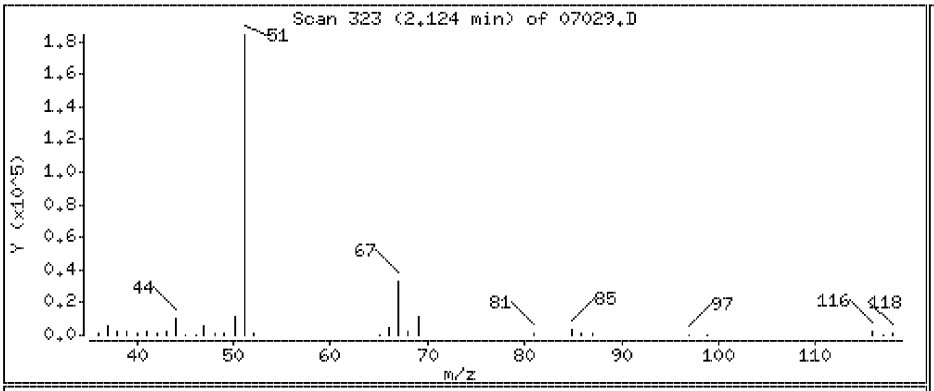
Operator: DR1

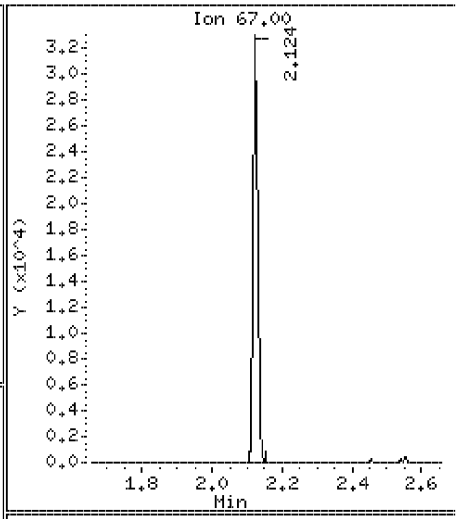
Column phase: J&W DB-5

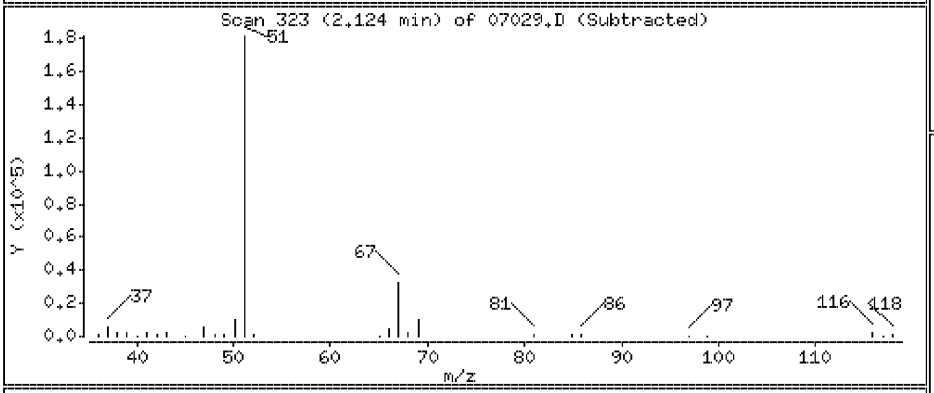
Column diameter: 0.32

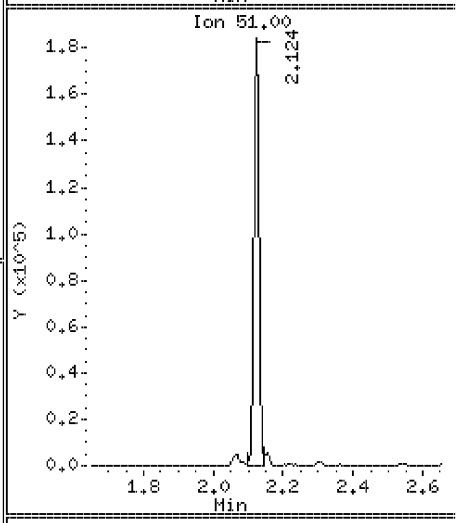
3 Chlorodifluoromethane

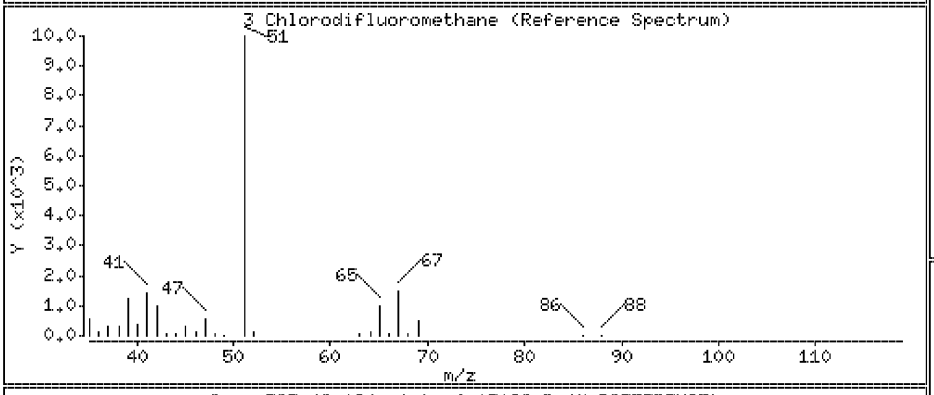
Concentration: 6.40 ppbv

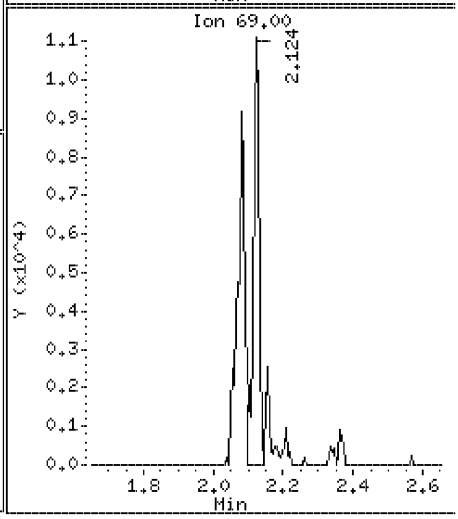


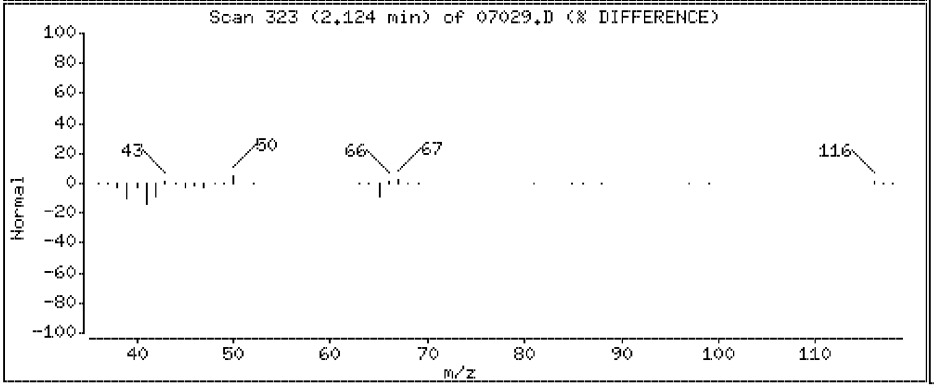












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

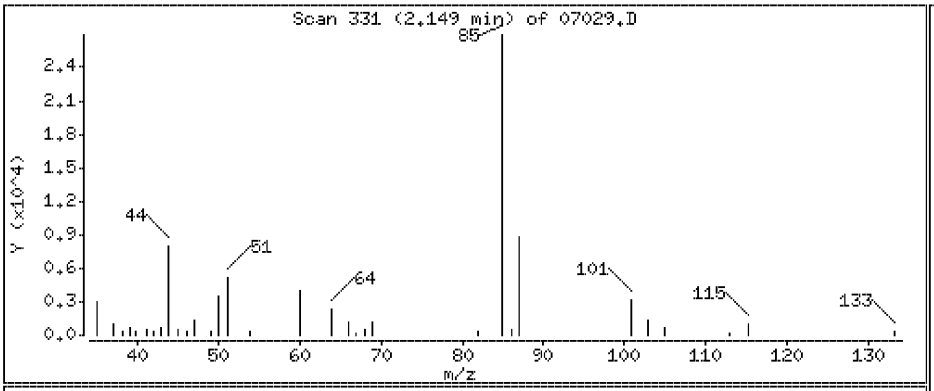
Operator: DR1

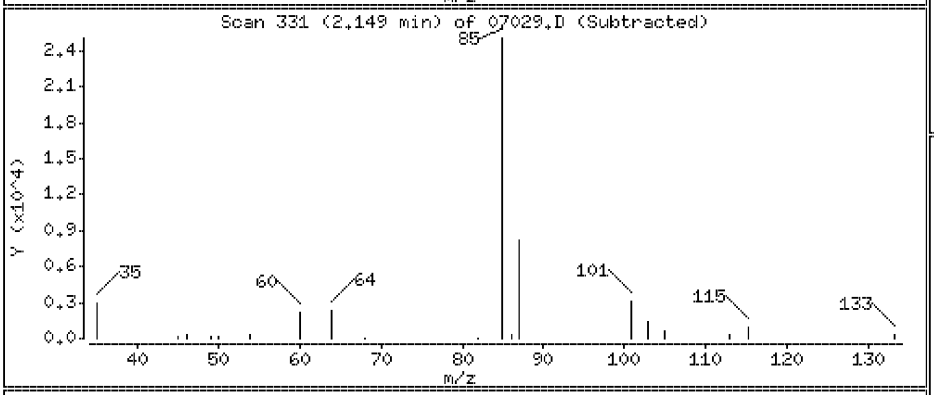
Column phase: J&W DB-5

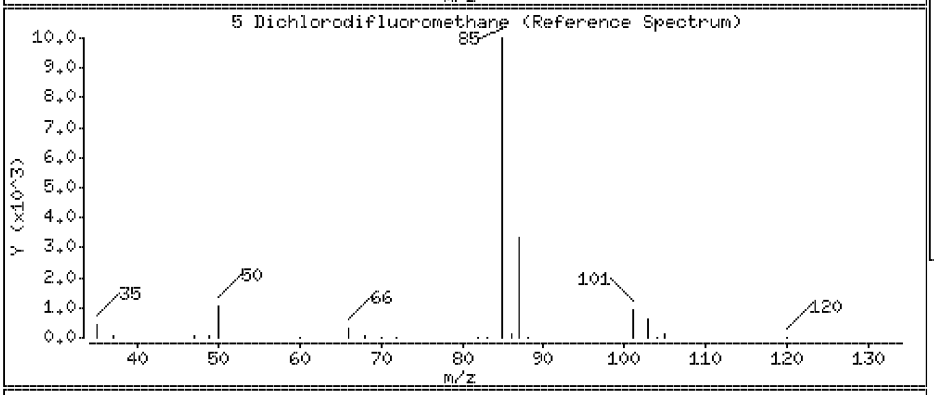
Column diameter: 0.32

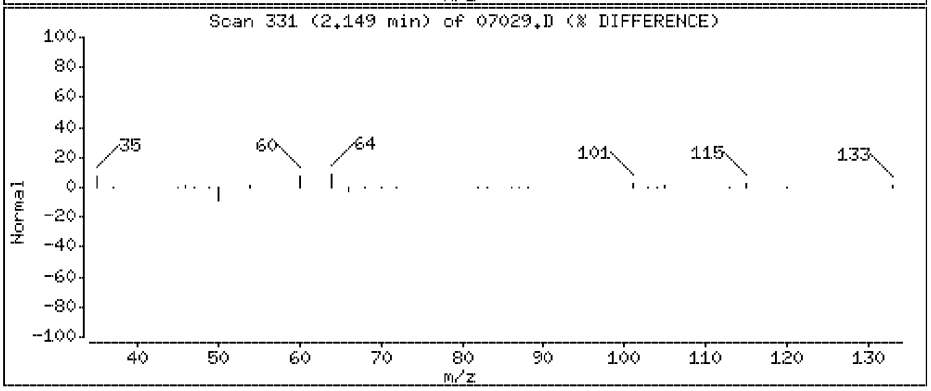
5 Dichlorodifluoromethane

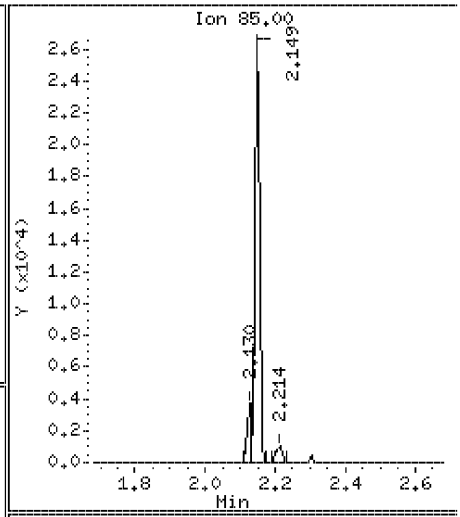
Concentration: 0.594 ppbv

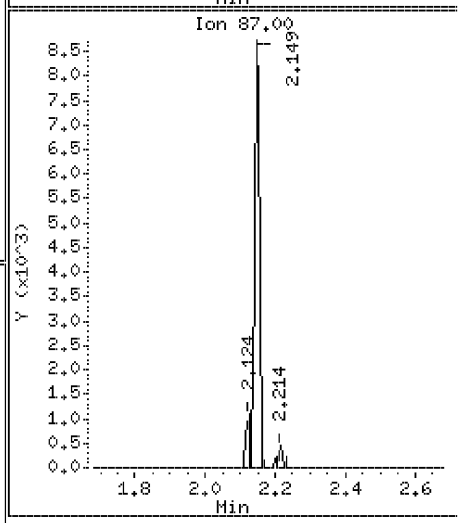












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

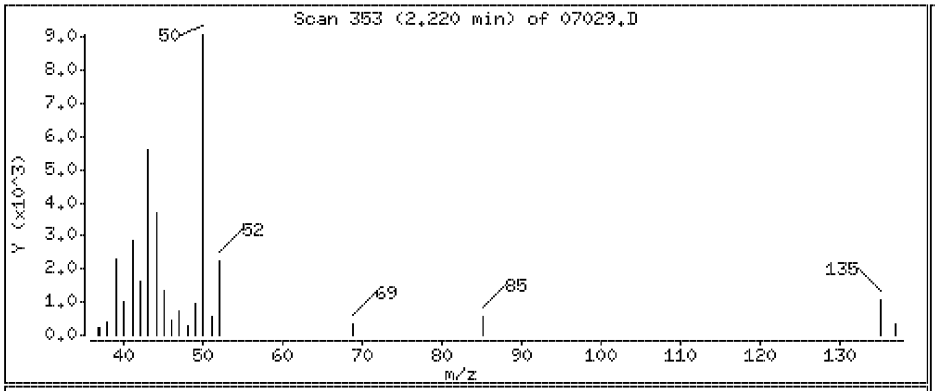
Operator: DR1

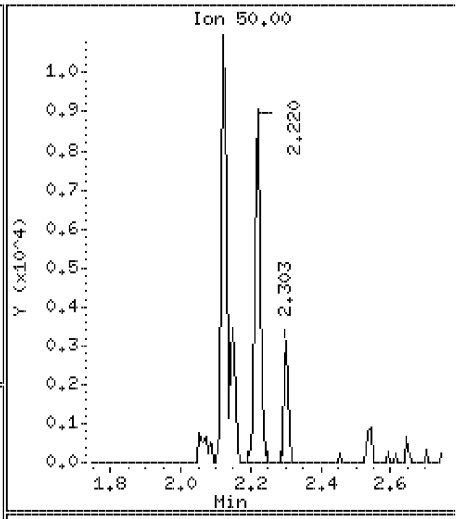
Column phase: J&W DB-5

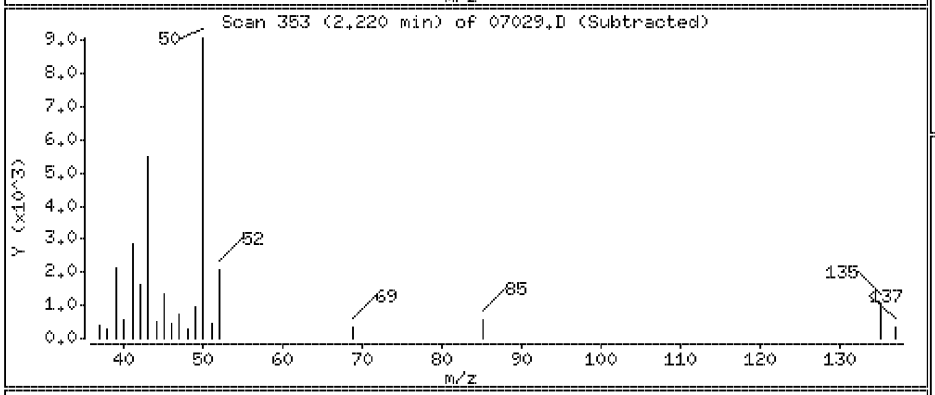
Column diameter: 0.32

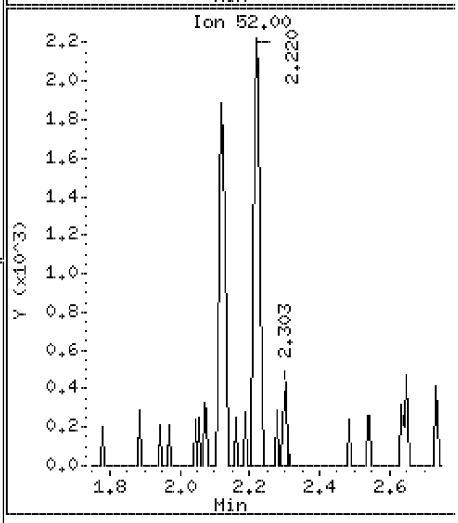
7 Chloromethane

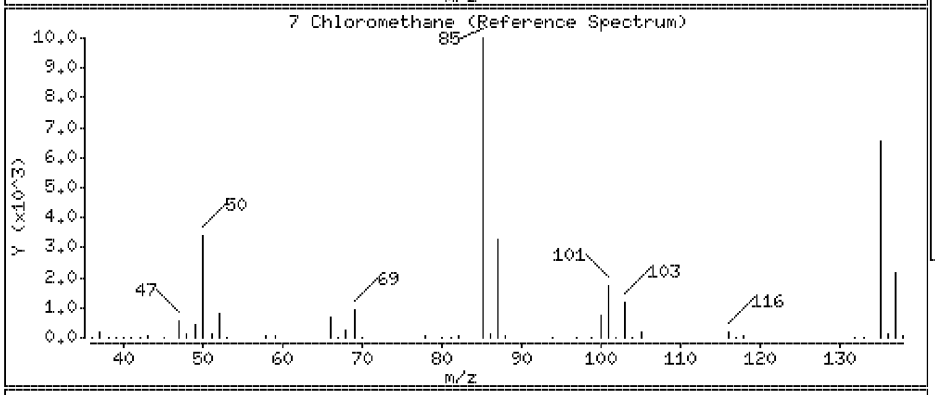
Concentration: 0.497 ppbv

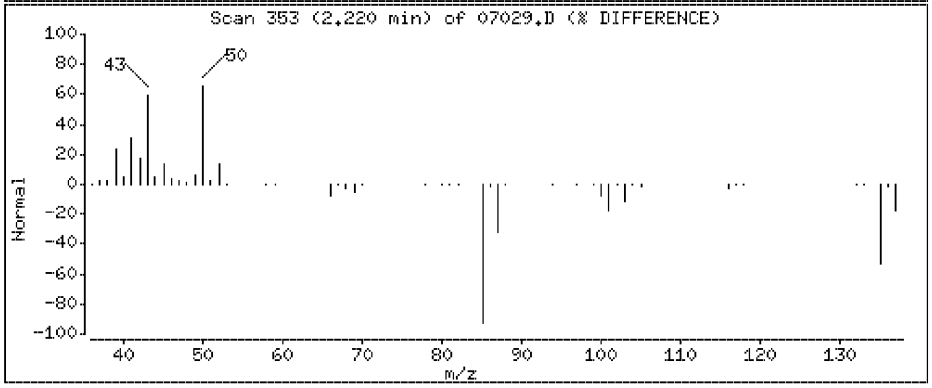












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

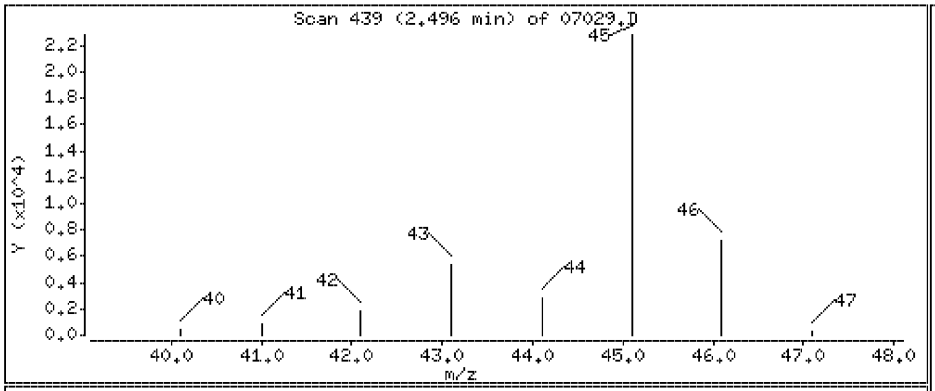
Operator: DR1

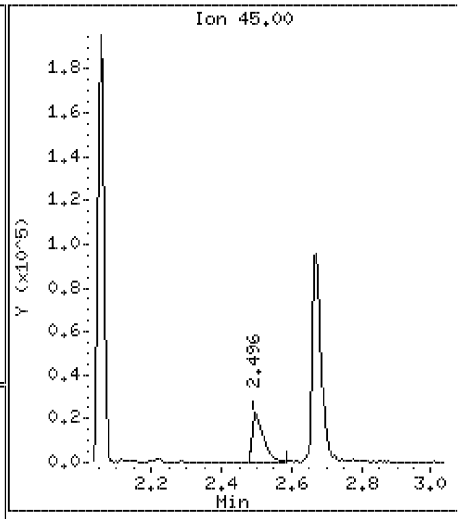
Column phase: J&W DB-5

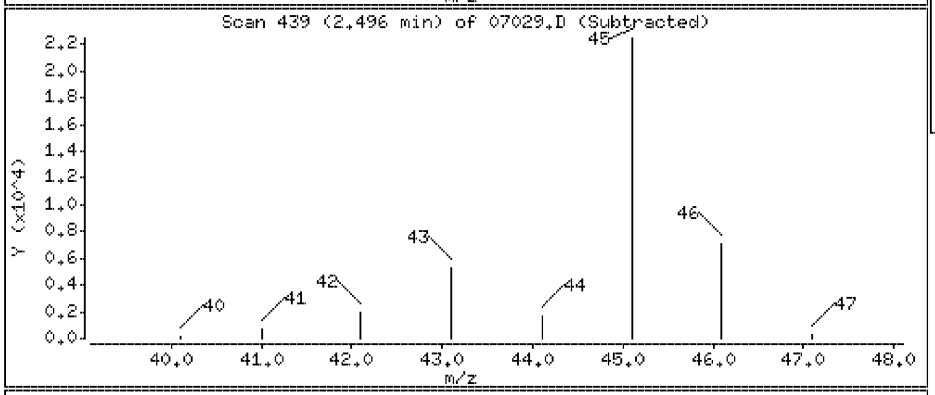
Column diameter: 0.32

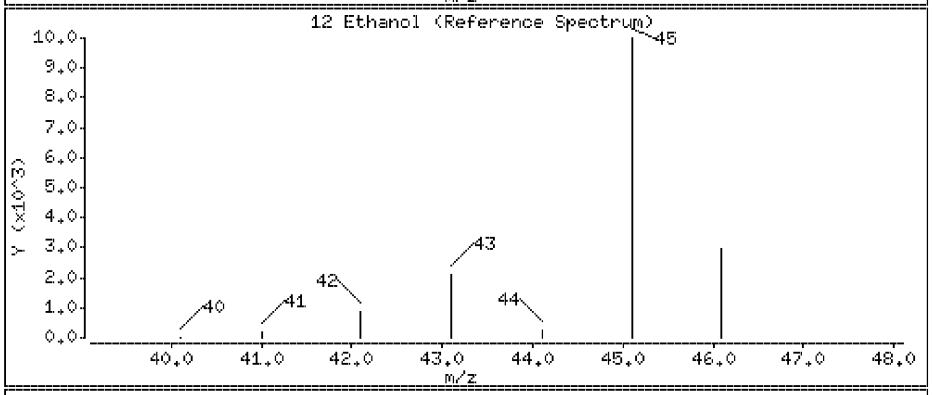
12 Ethanol

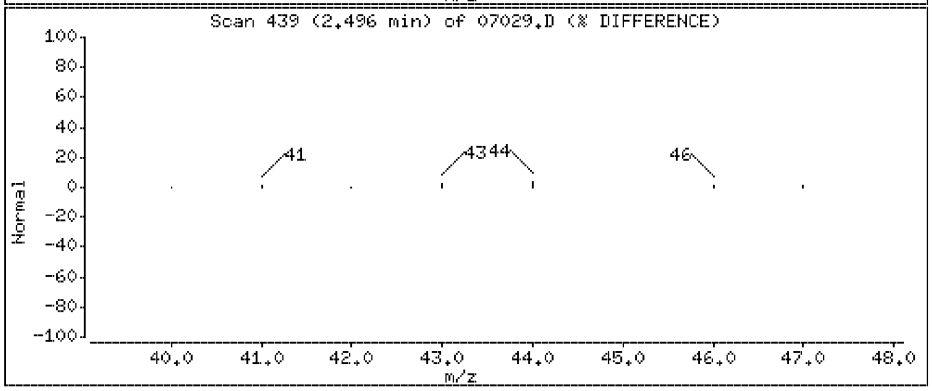
Concentration: 19.2 ppbv











Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

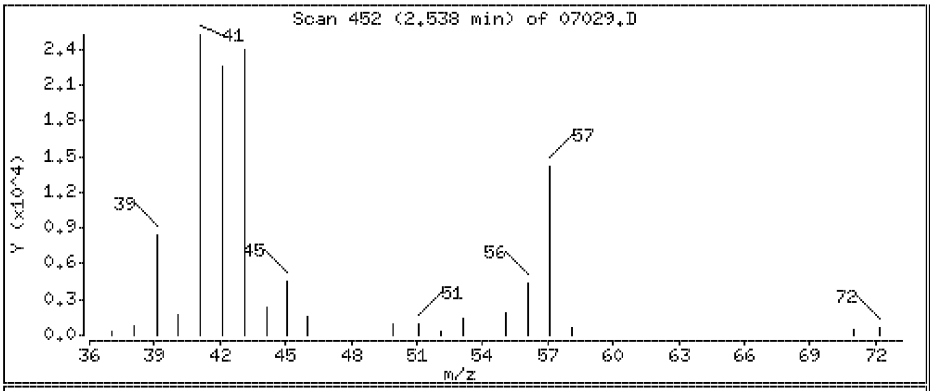
Operator: DR1

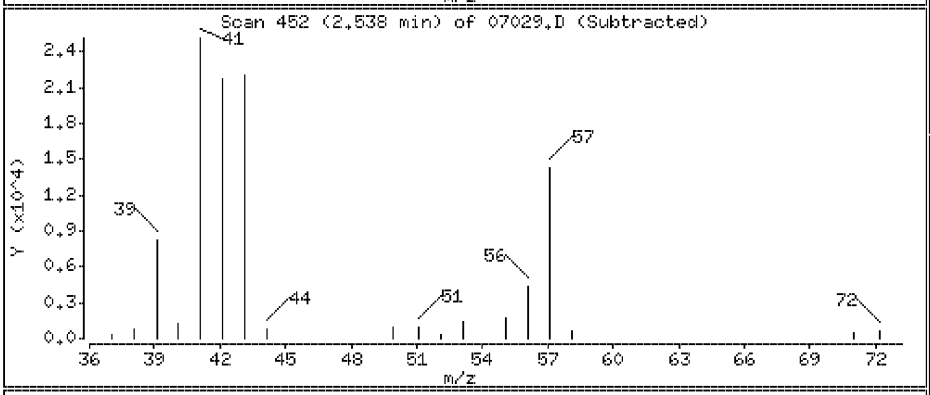
Column phase: J&W DB-5

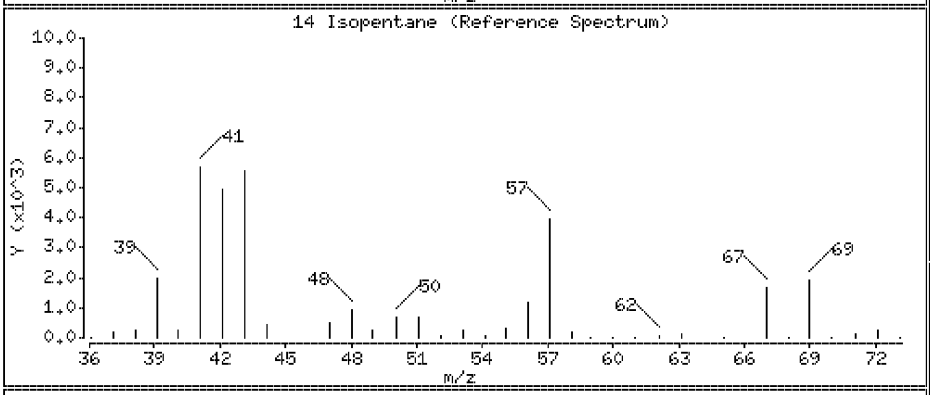
Column diameter: 0.32

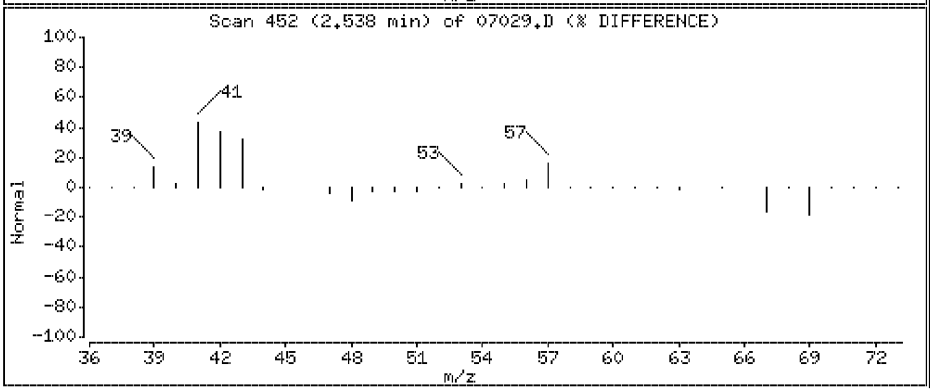
14 Isopentane

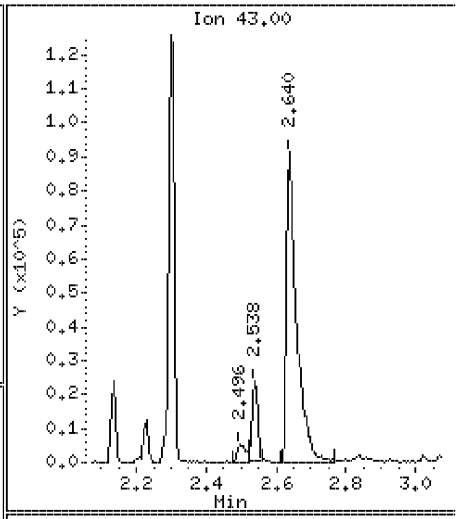
Concentration: 1.56 ppbv

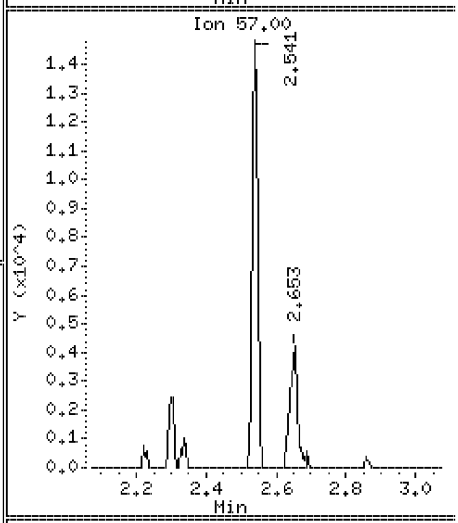


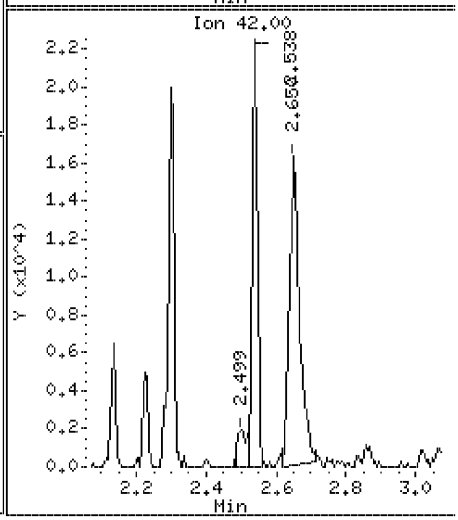












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

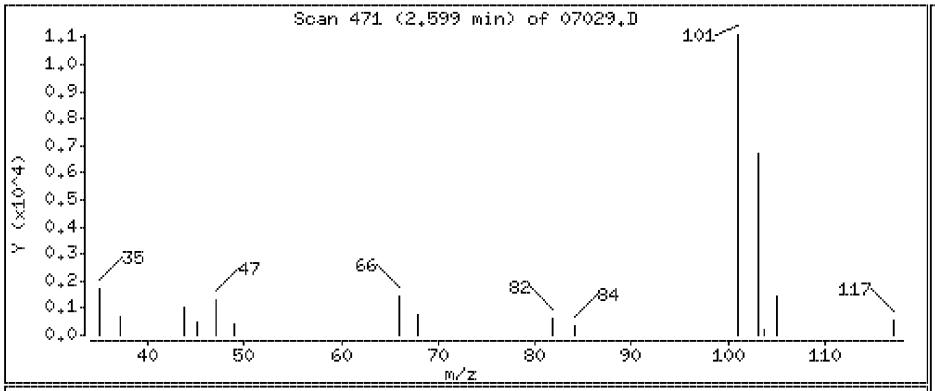
Operator: DR1

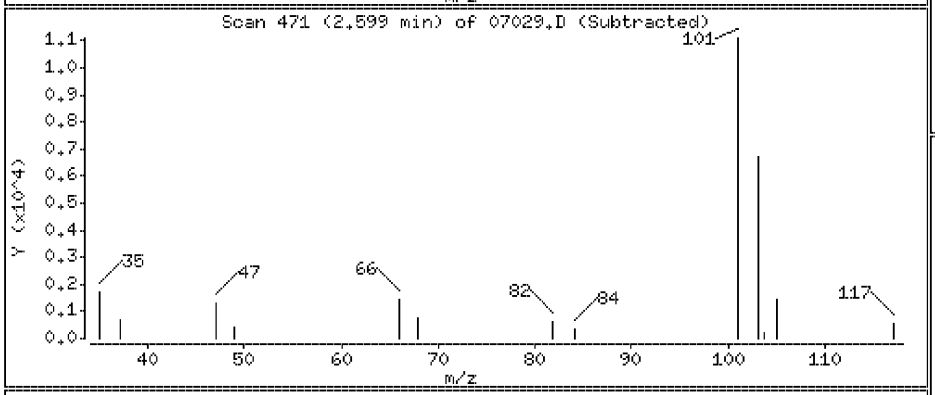
Column phase: J&W DB-5

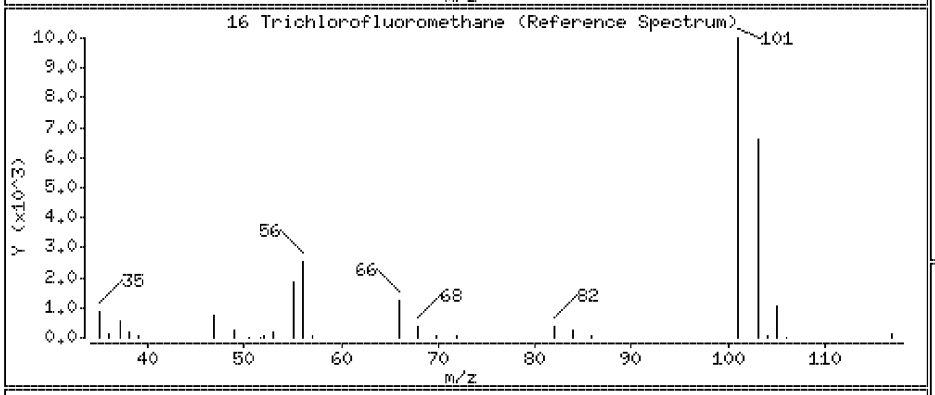
Column diameter: 0.32

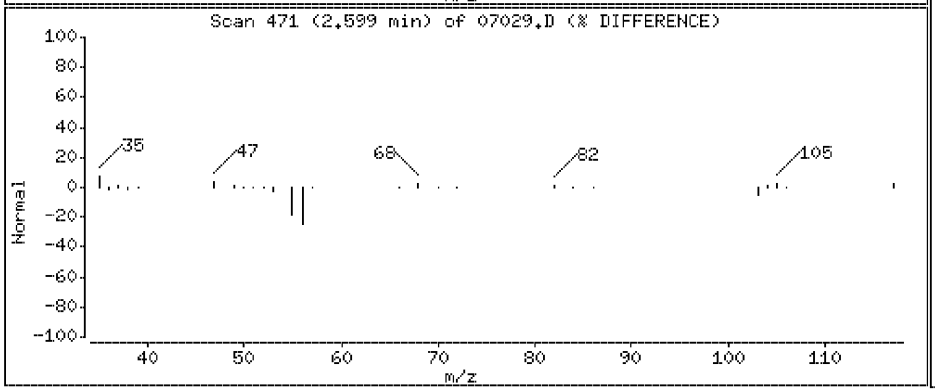
16 Trichlorofluoromethane

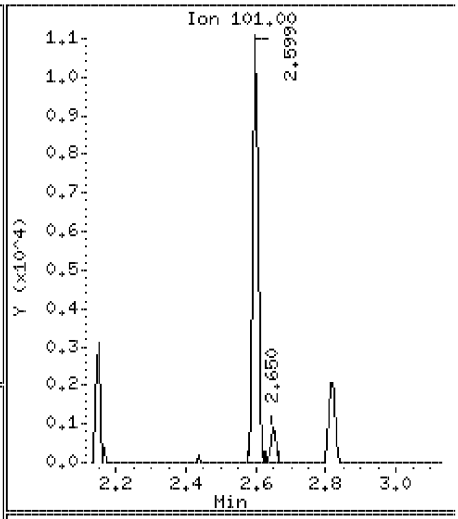
Concentration: 0.273 ppbv

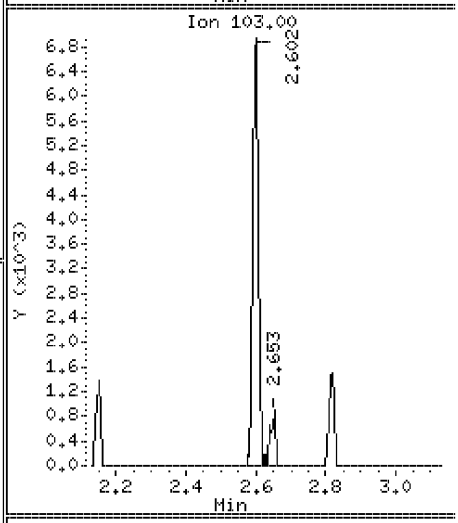


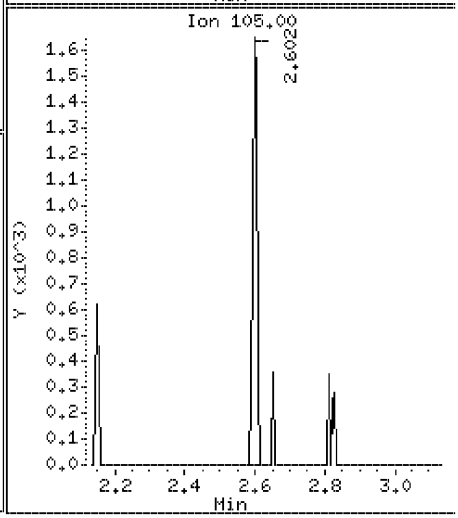












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

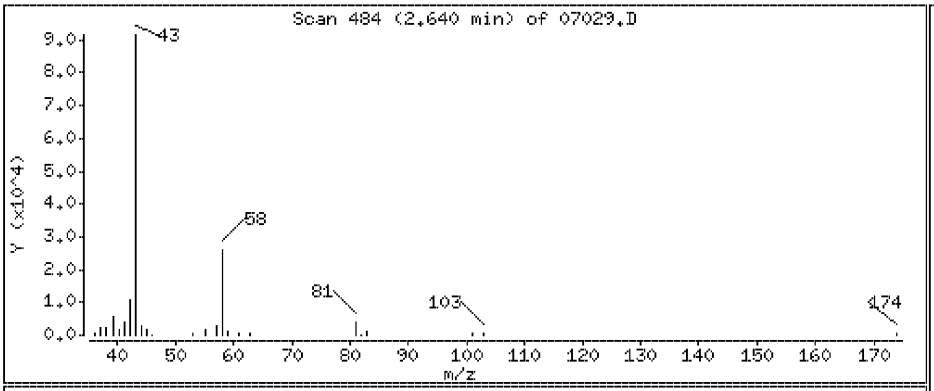
Operator: DR1

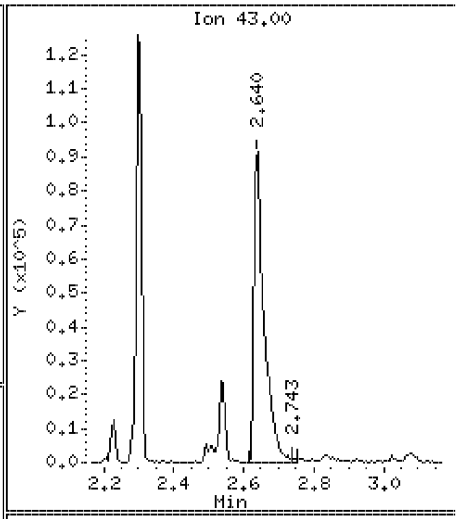
Column phase: J&W DB-5

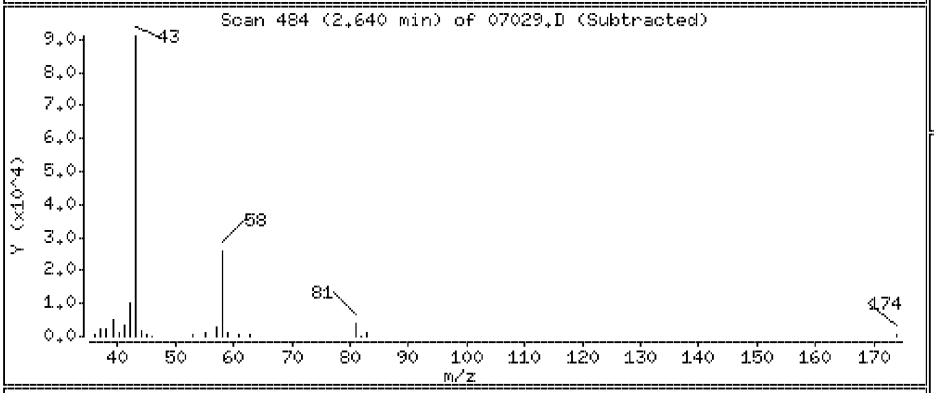
Column diameter: 0.32

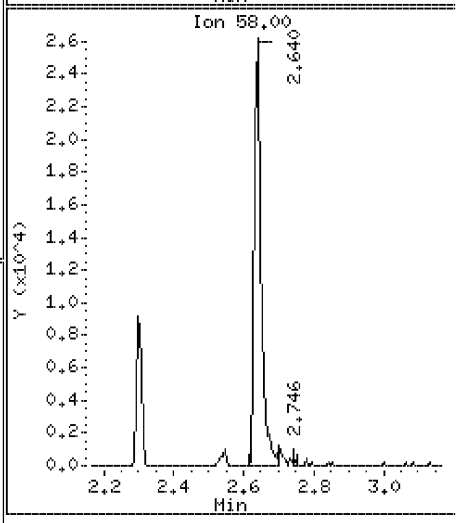
18 Acetone

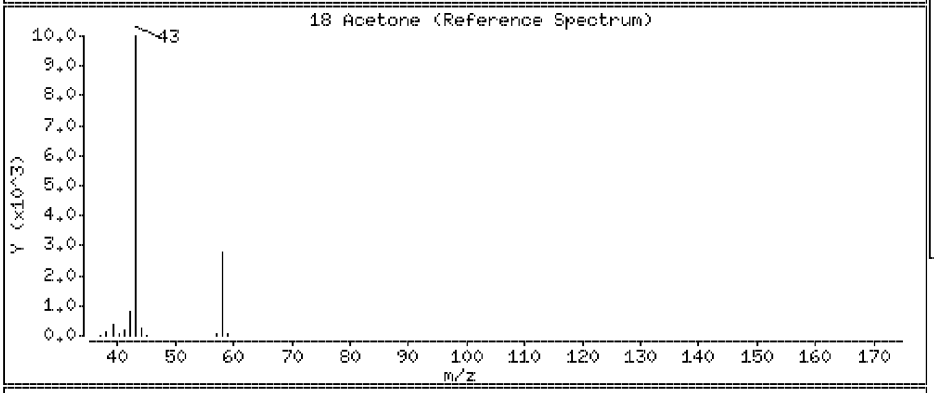
Concentration: 7.07 ppbv

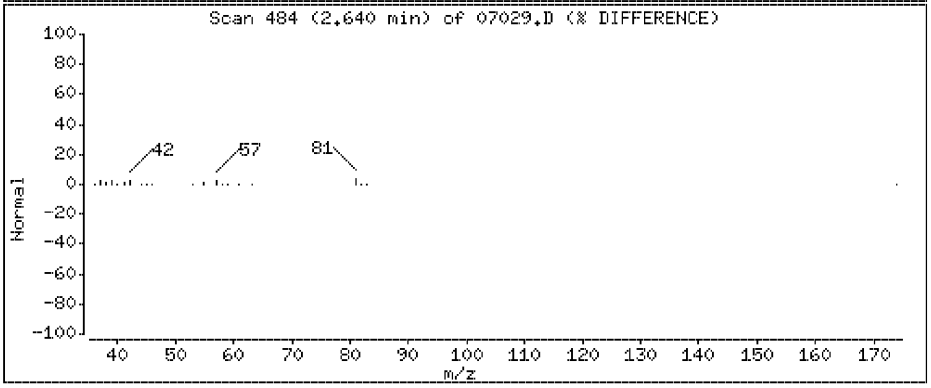












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

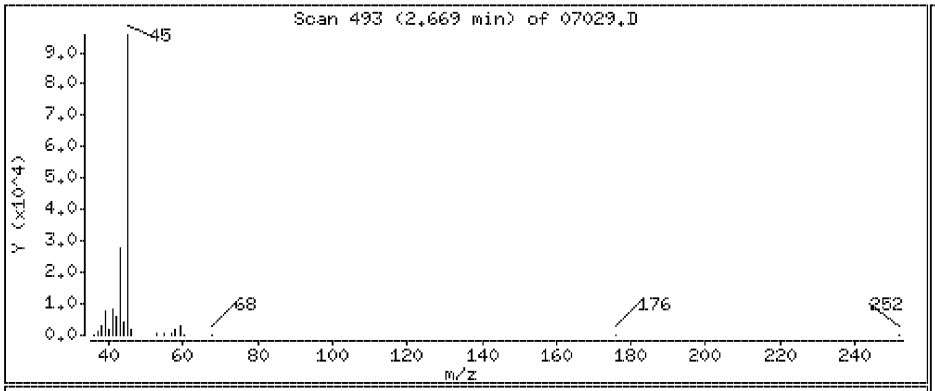
Operator: DR1

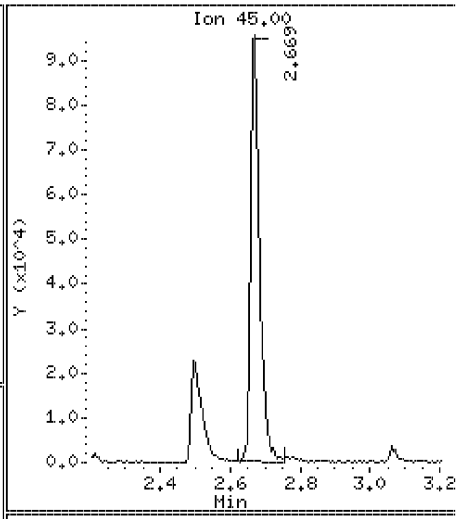
Column phase: J&W DB-5

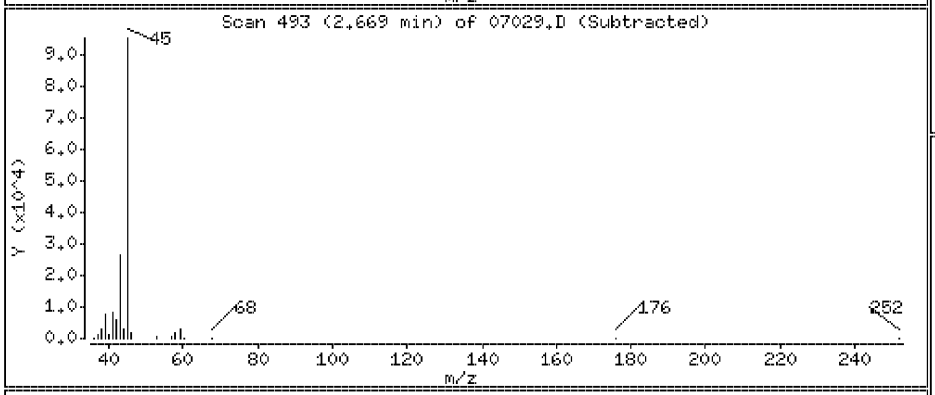
Column diameter: 0.32

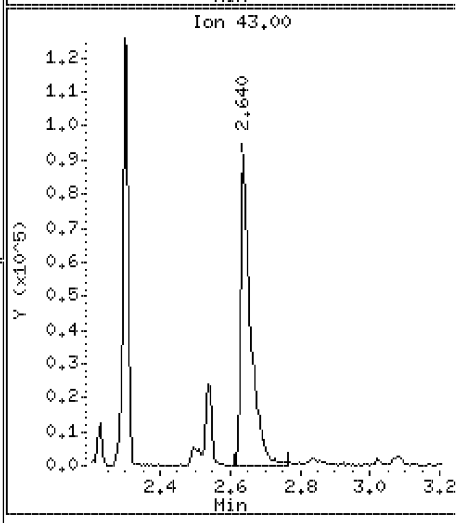
19 Isopropyl Alcohol

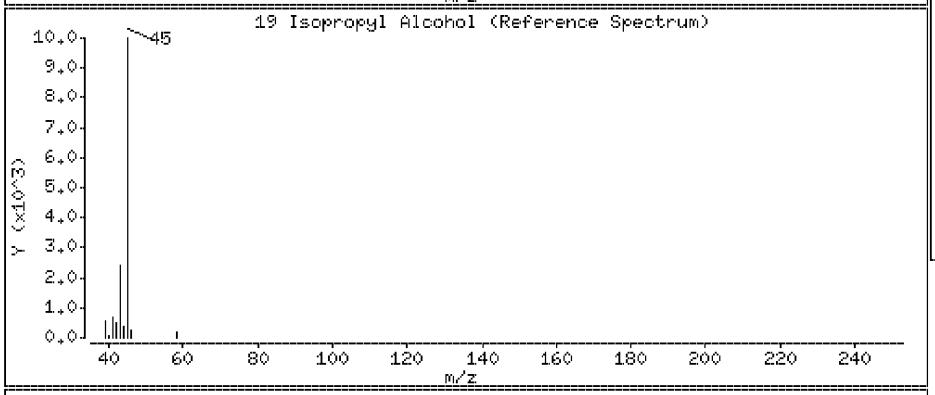
Concentration: 12.1 ppbv

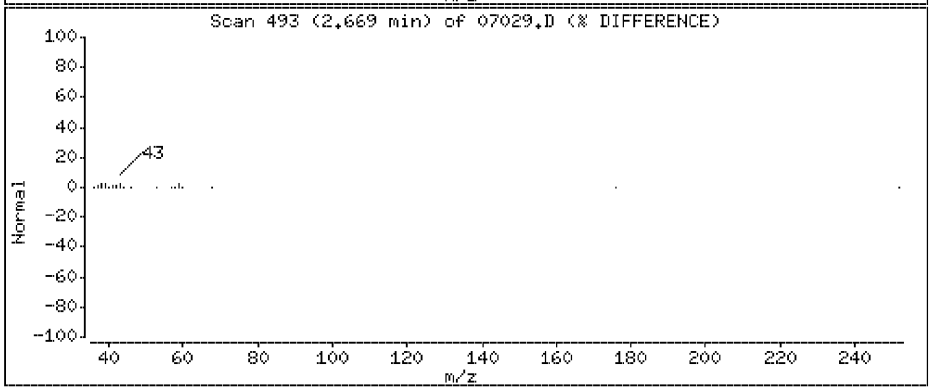












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

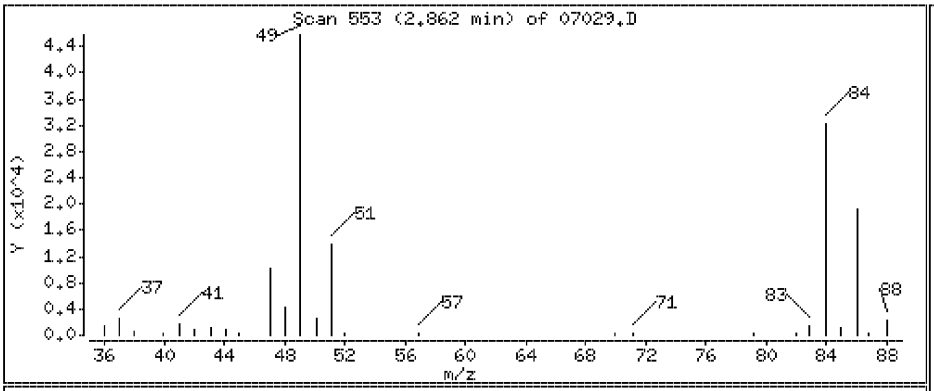
Operator: DR1

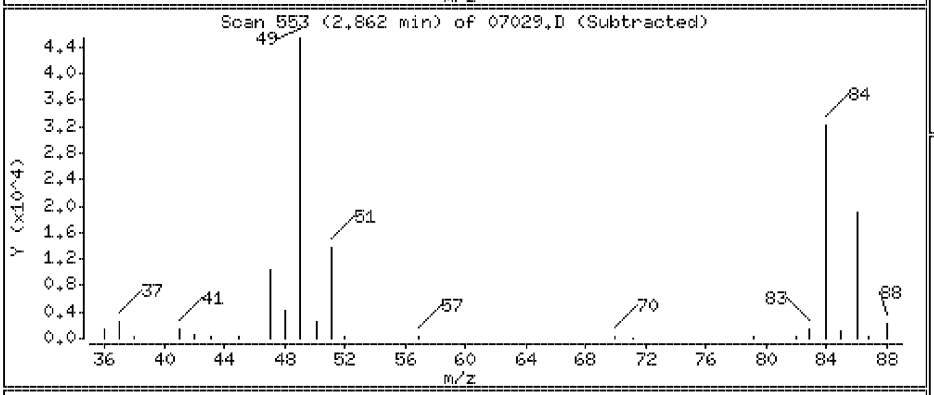
Column phase: J&W DB-5

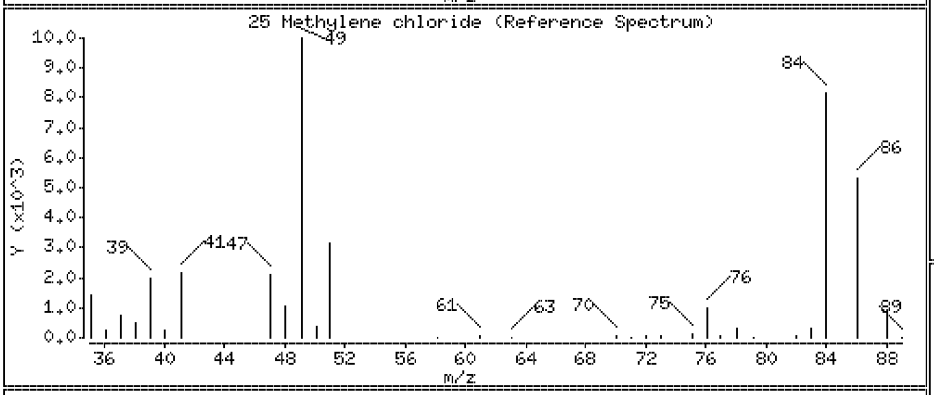
Column diameter: 0.32

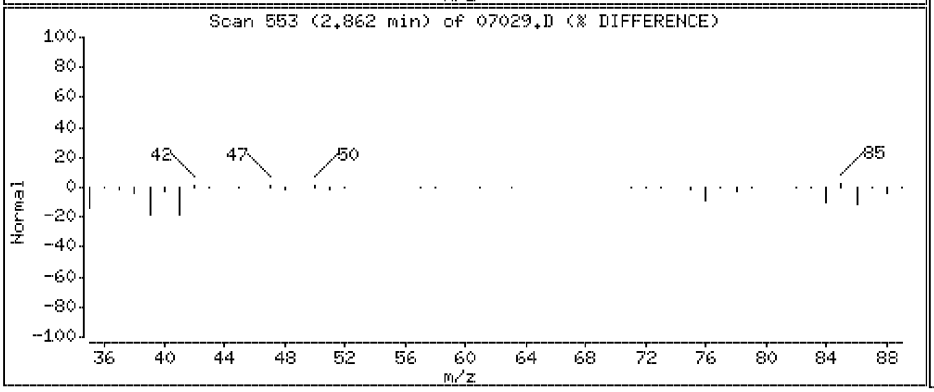
25 Methylene chloride

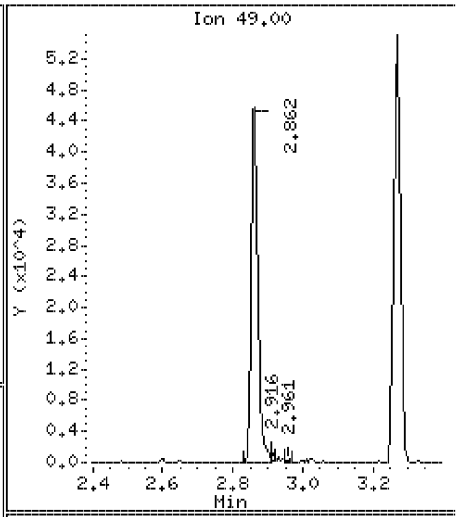
Concentration: 2.69 ppbv

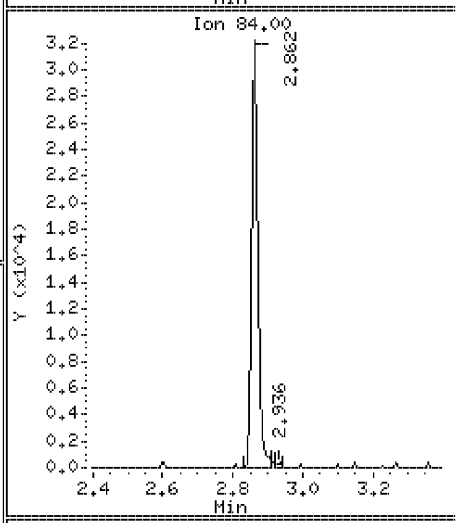


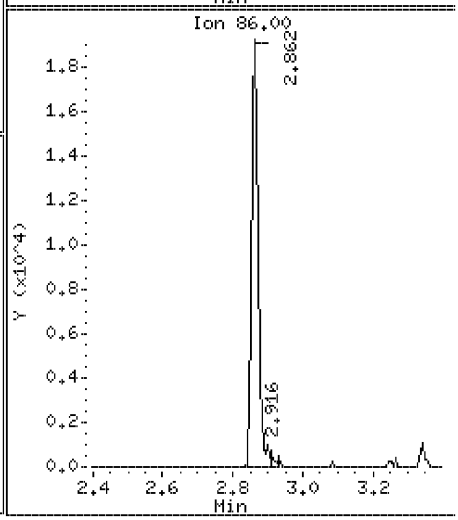












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

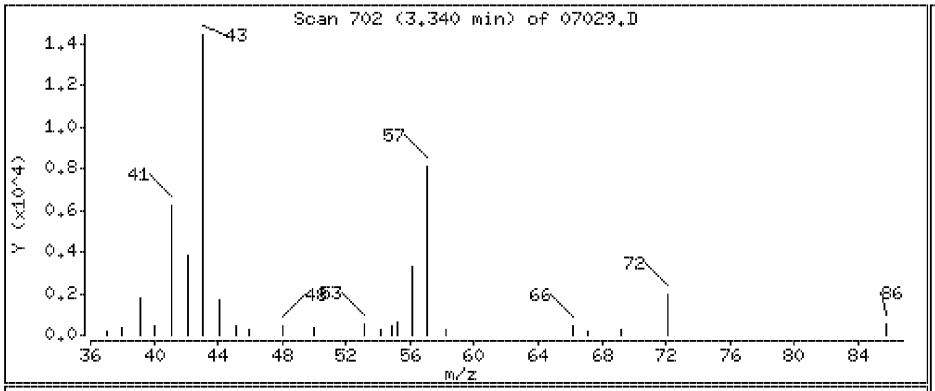
Operator: DR1

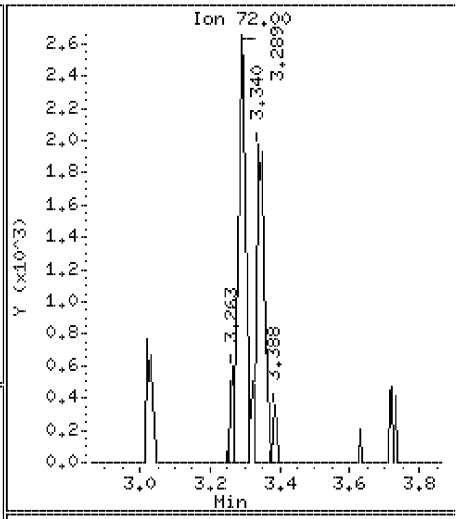
Column phase: J&W DB-5

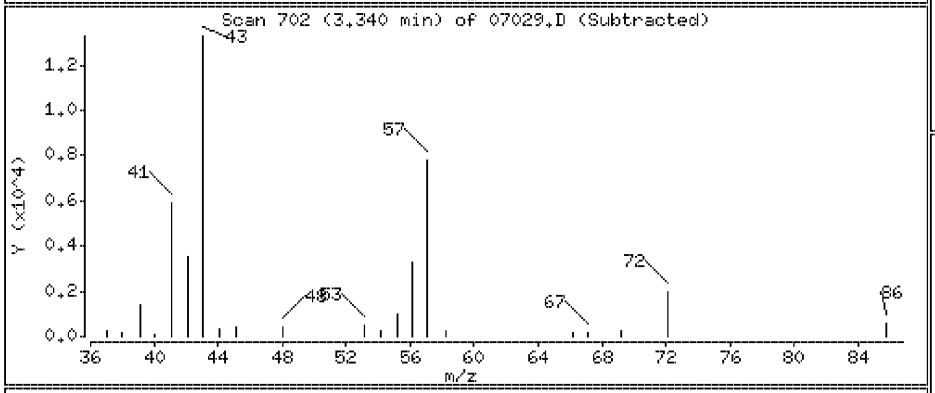
Column diameter: 0.32

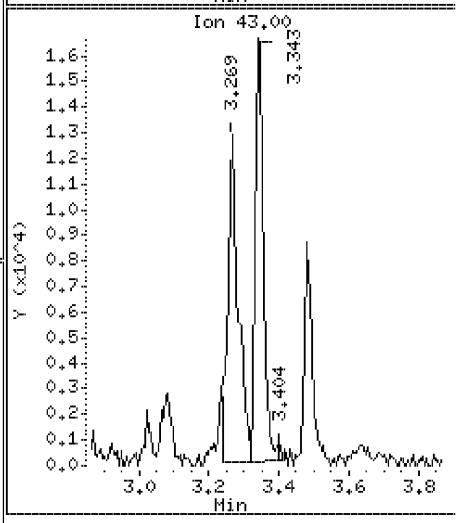
33 Methyl Ethyl Ketone

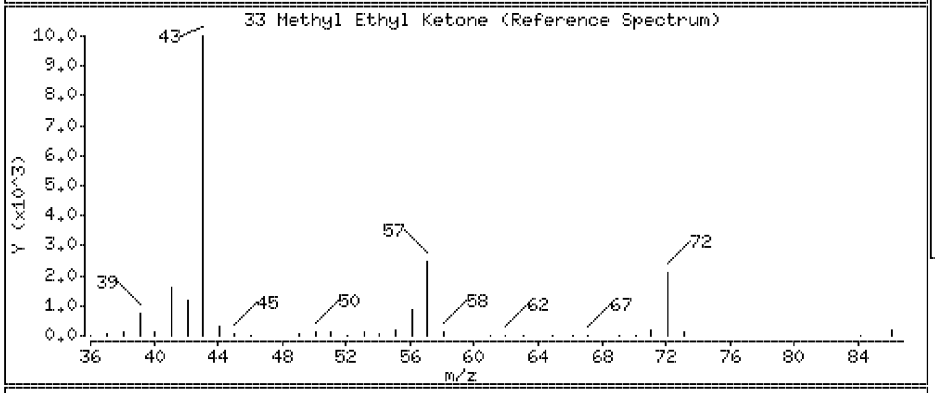
Concentration: 0.530 ppbv

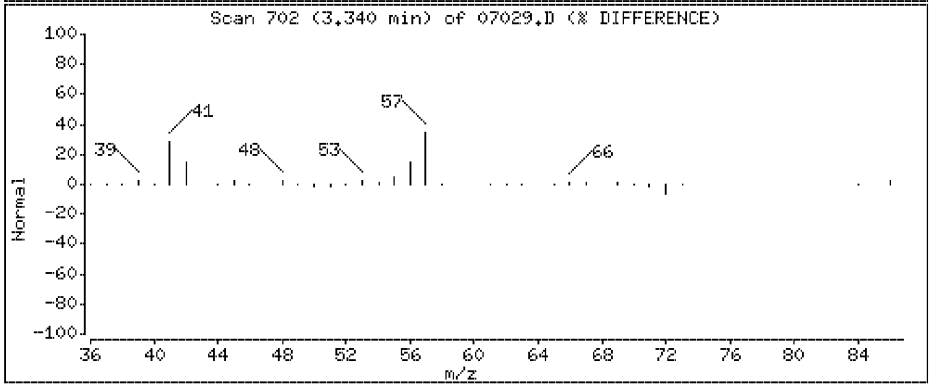












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

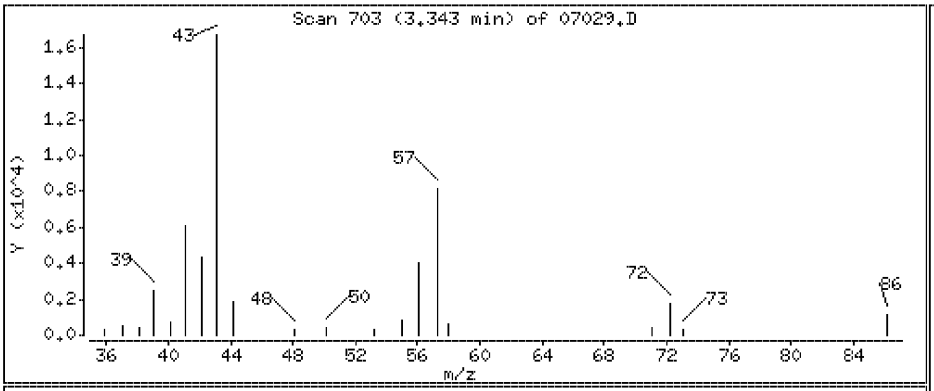
Operator: DR1

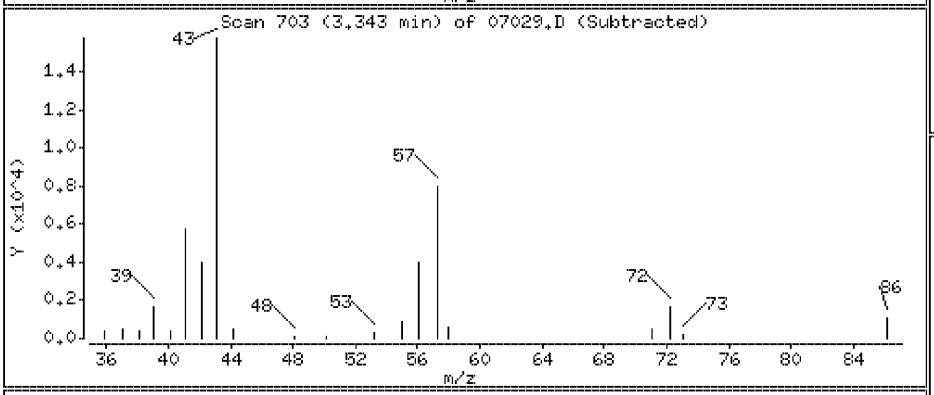
Column phase: J&W DB-5

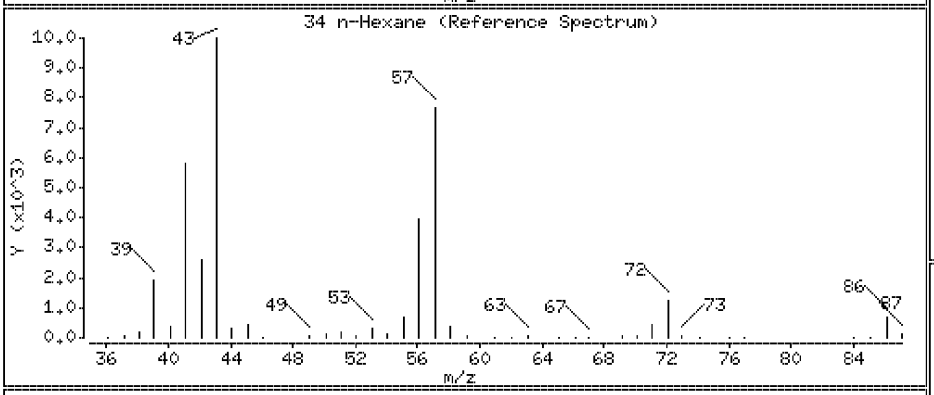
Column diameter: 0.32

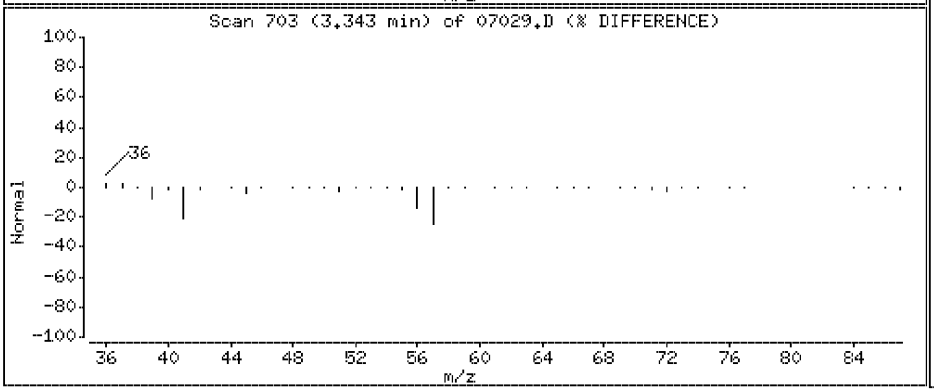
34 n-Hexane

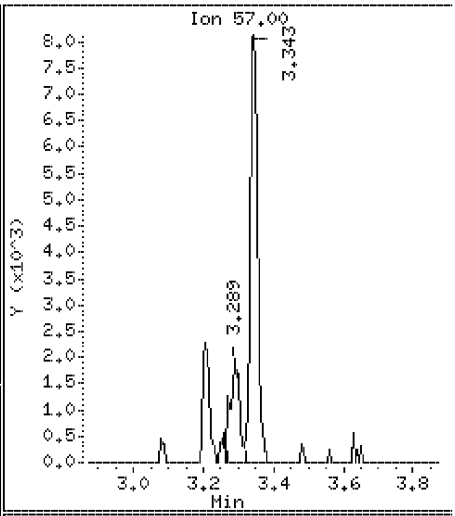
Concentration: 0.558 ppbv

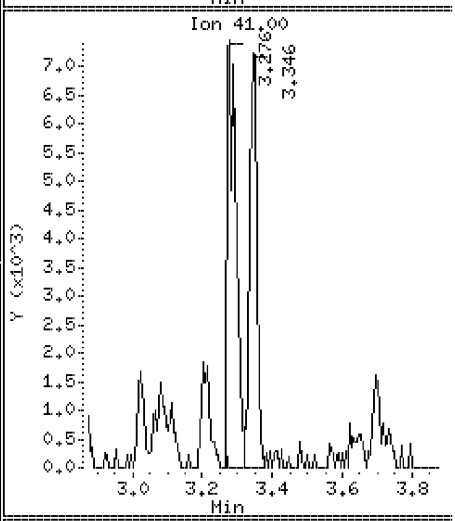


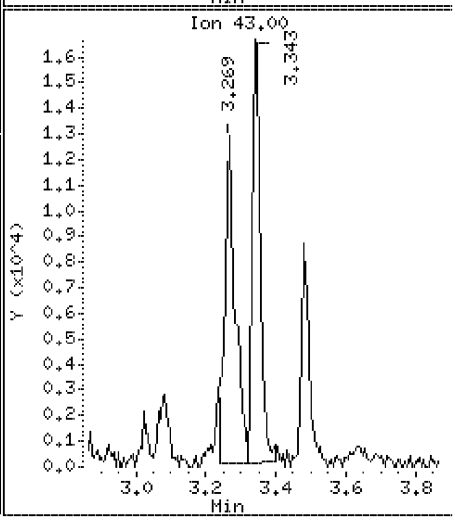












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

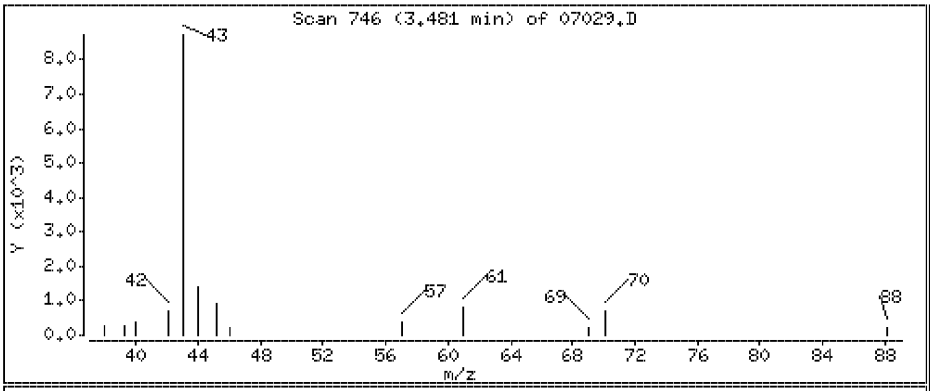
Operator: DR1

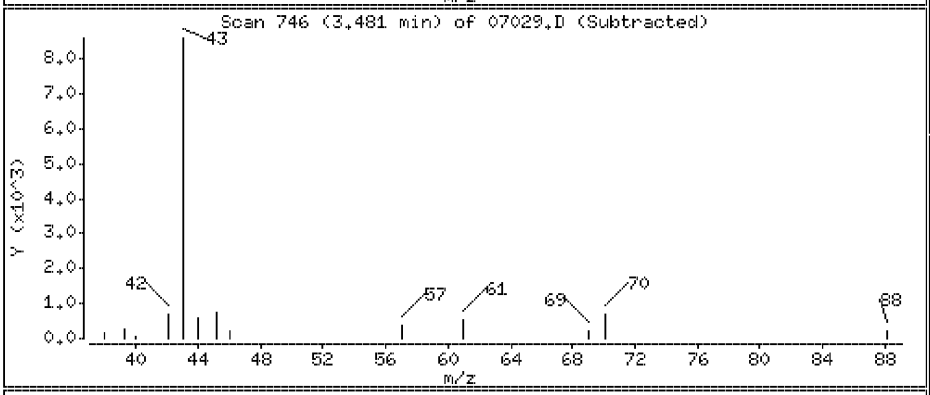
Column phase: J&W DB-5

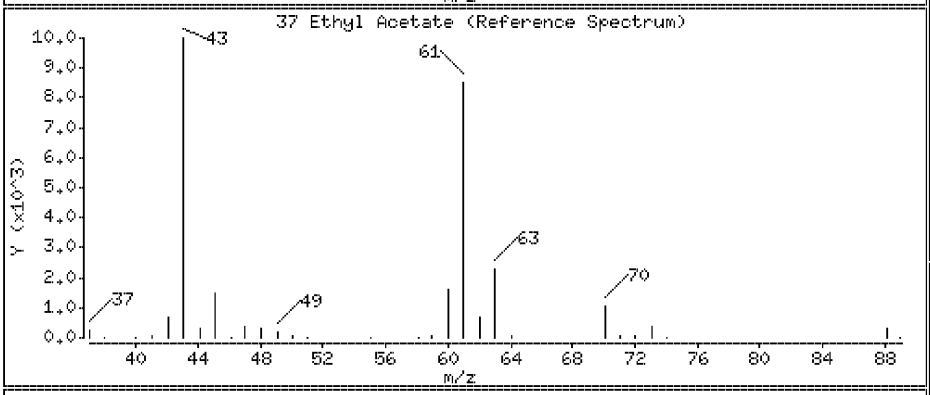
Column diameter: 0.32

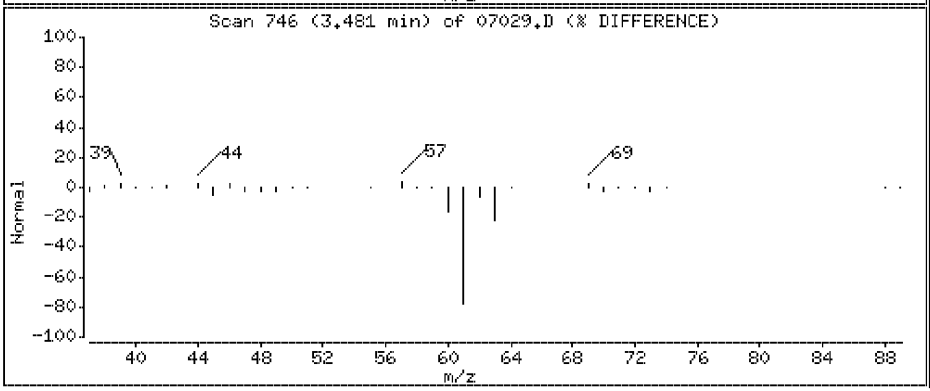
37 Ethyl Acetate

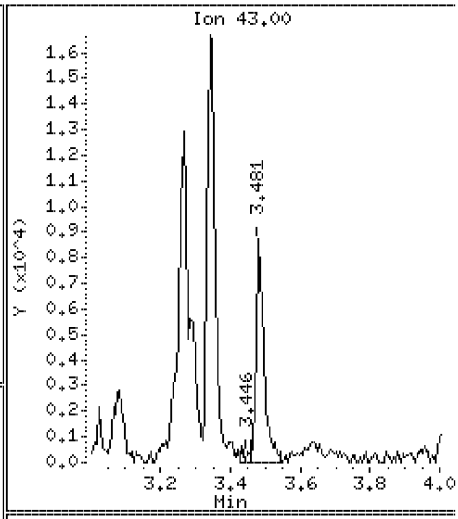
Concentration: 0.409 ppbv

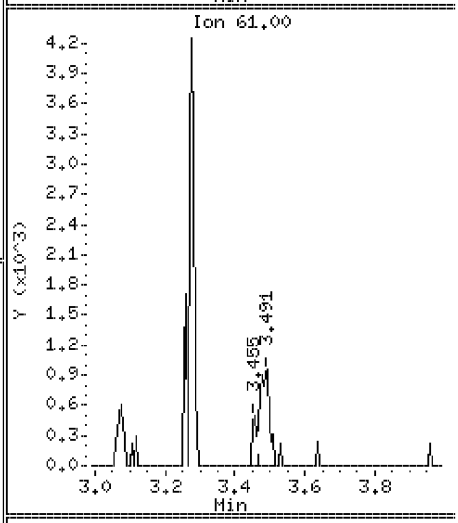


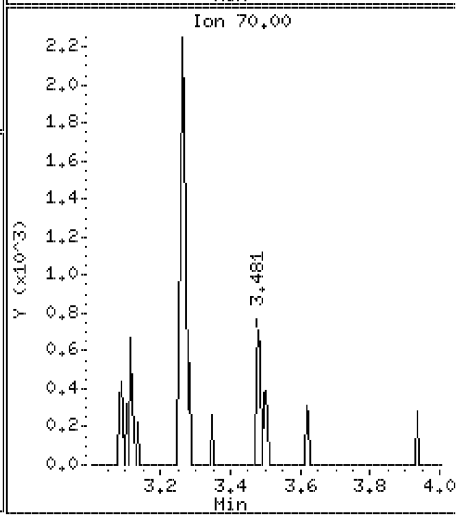












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

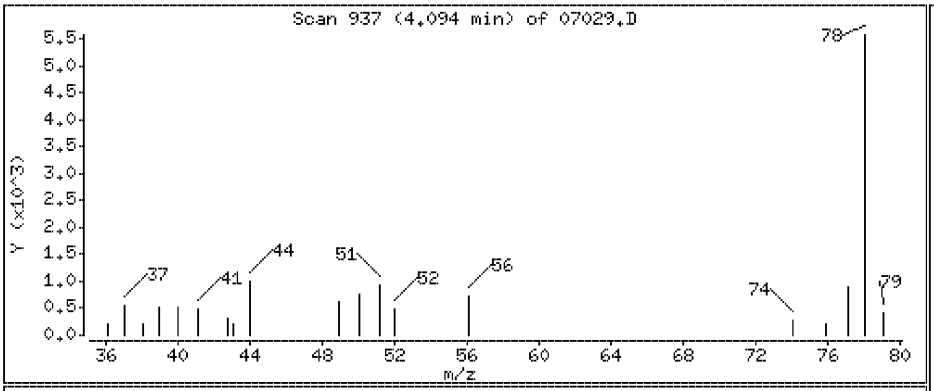
Operator: DR1

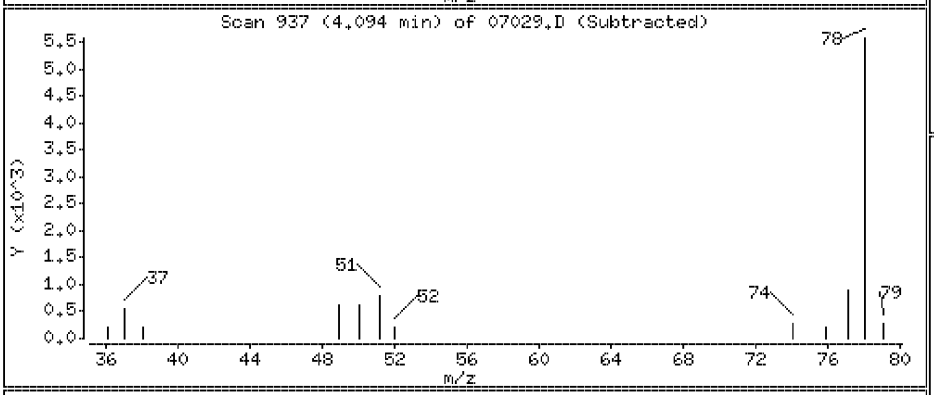
Column phase: J&W DB-5

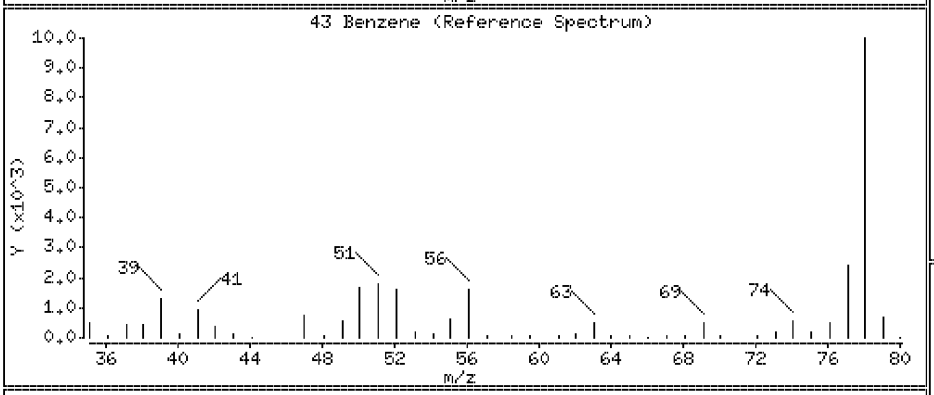
Column diameter: 0.32

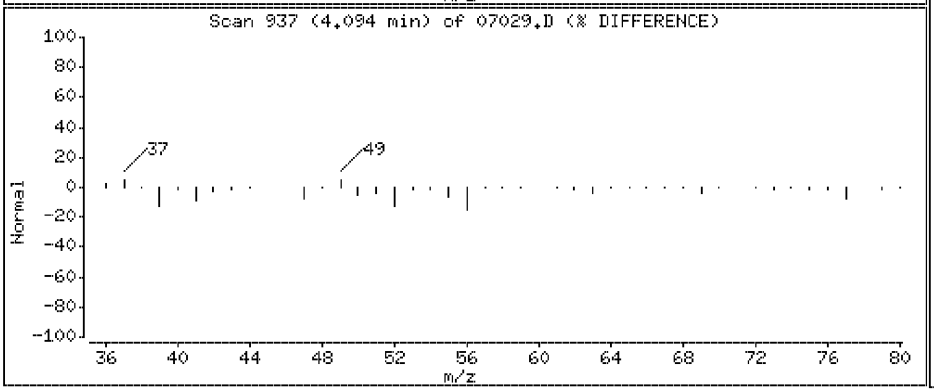
43 Benzene

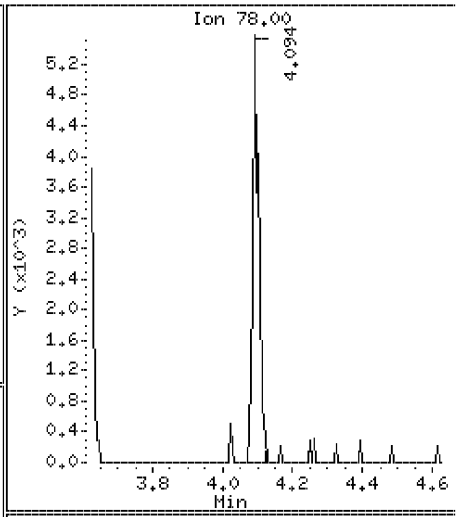
Concentration: 0.164 ppbv

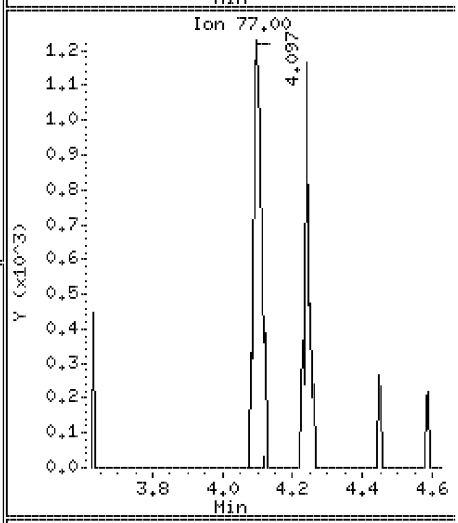


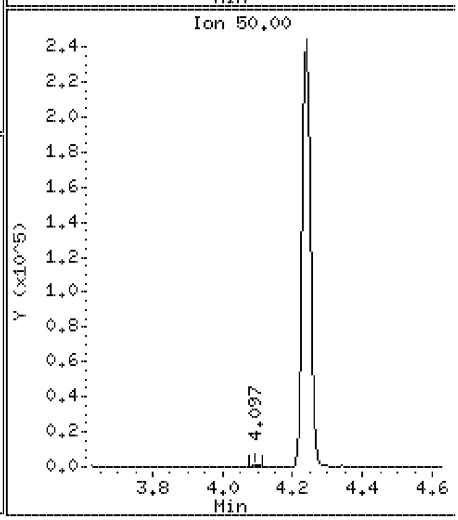












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

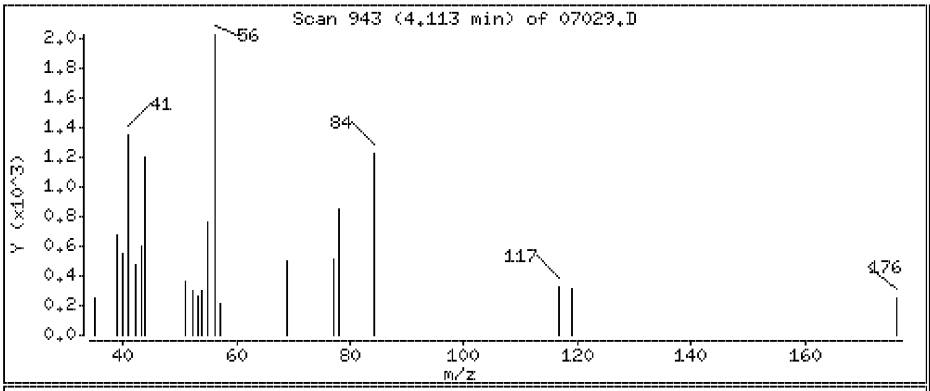
Operator: DR1

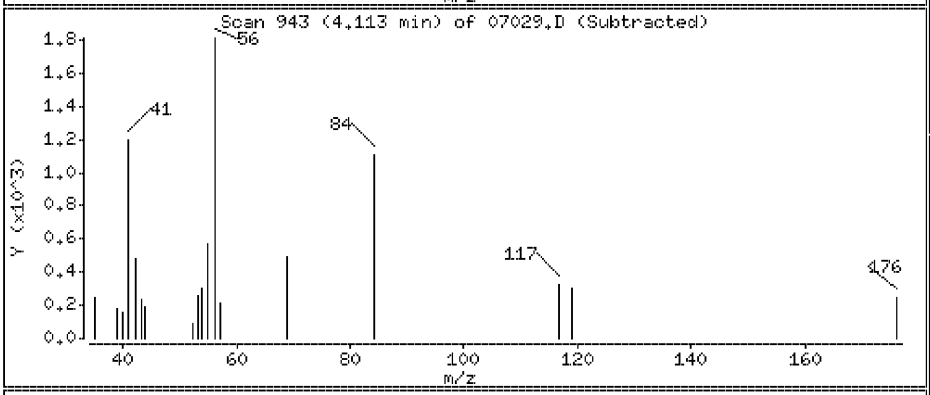
Column phase: J&W DB-5

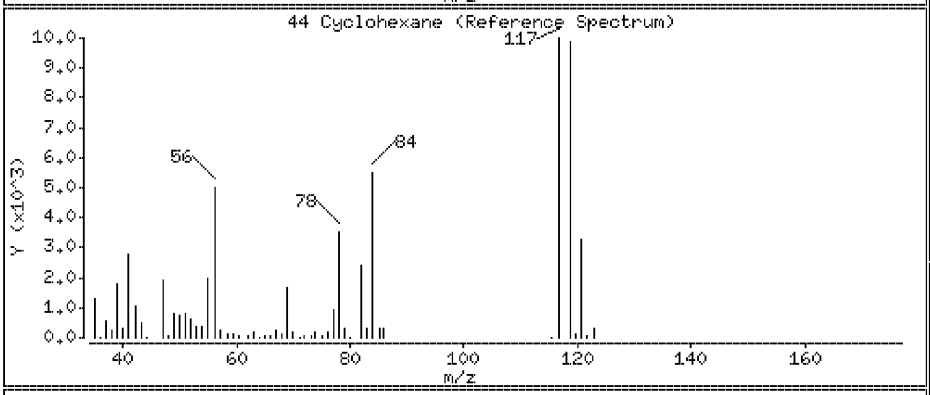
Column diameter: 0.32

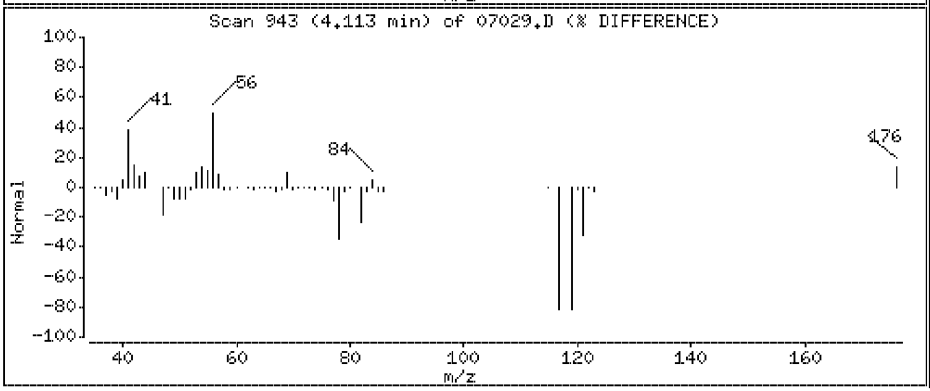
44 Cyclohexane

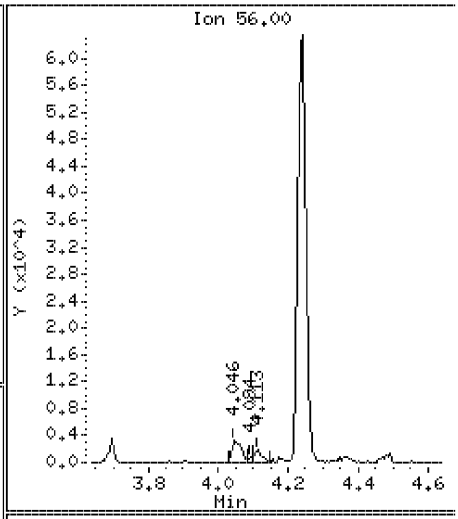
Concentration: 0.143 ppbv

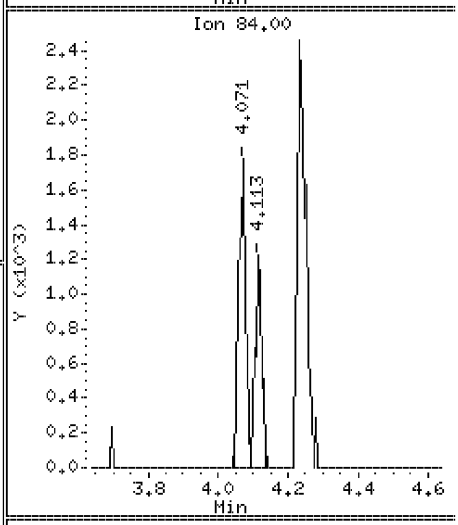


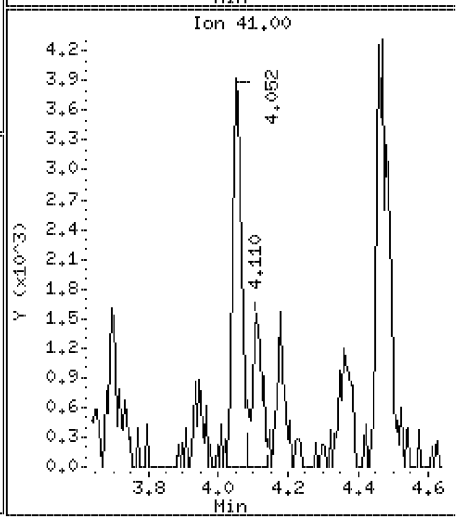












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

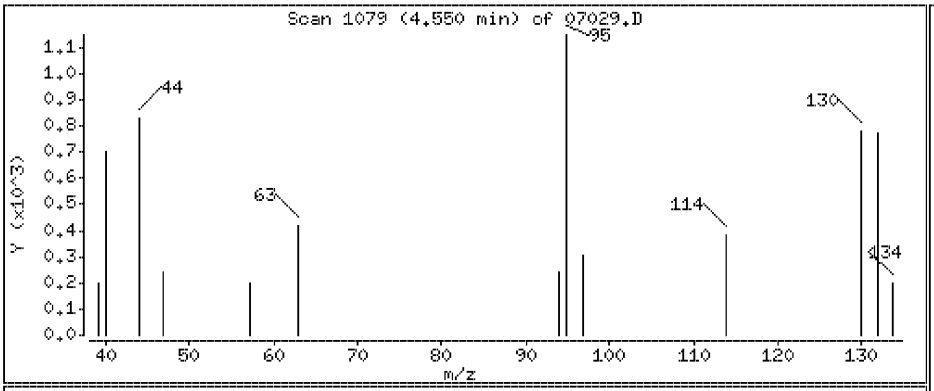
Operator: DR1

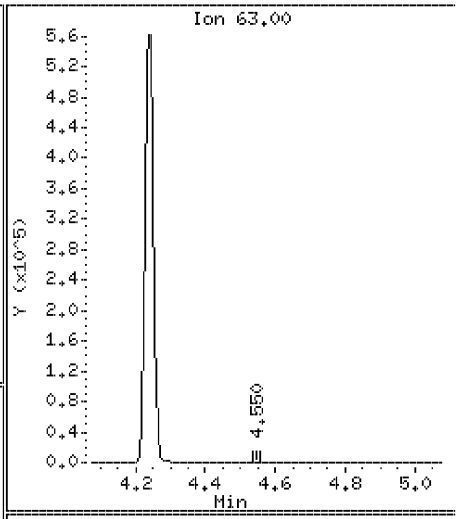
Column phase: J&W DB-5

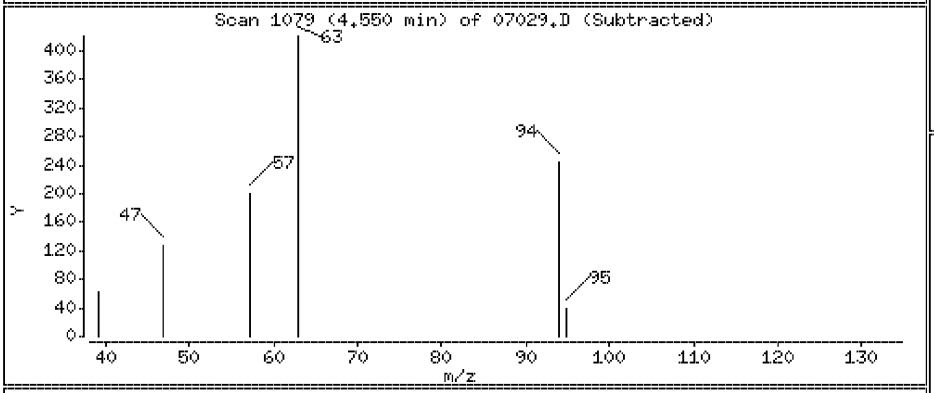
Column diameter: 0.32

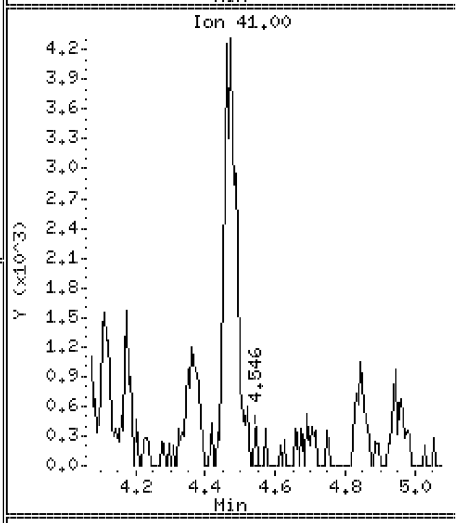
50 1,2-Dichloropropane

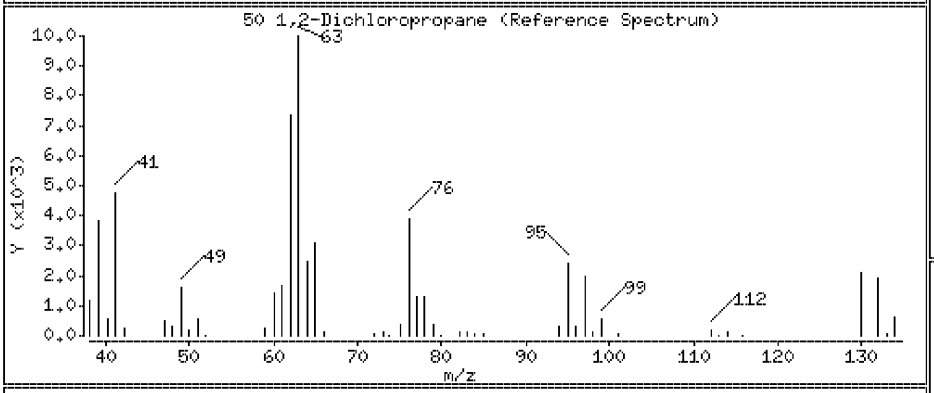
Concentration: 0.0209 ppbv

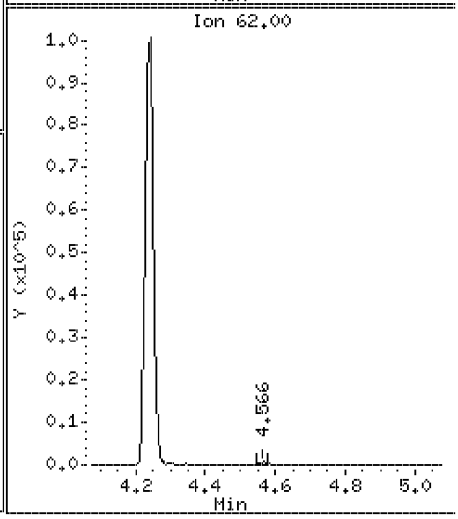


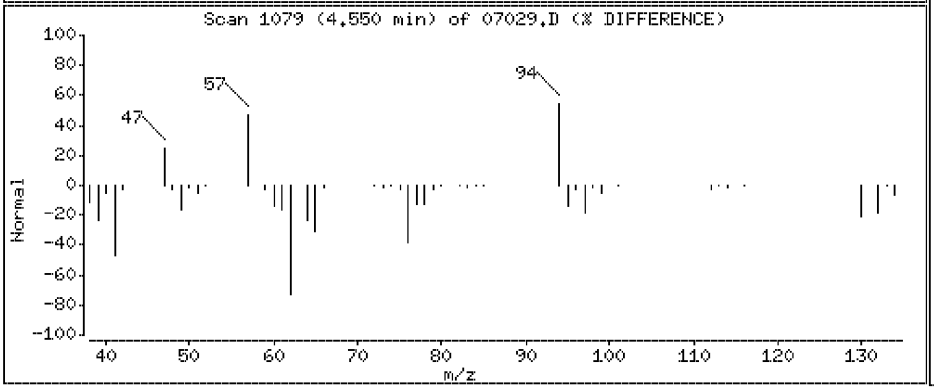












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

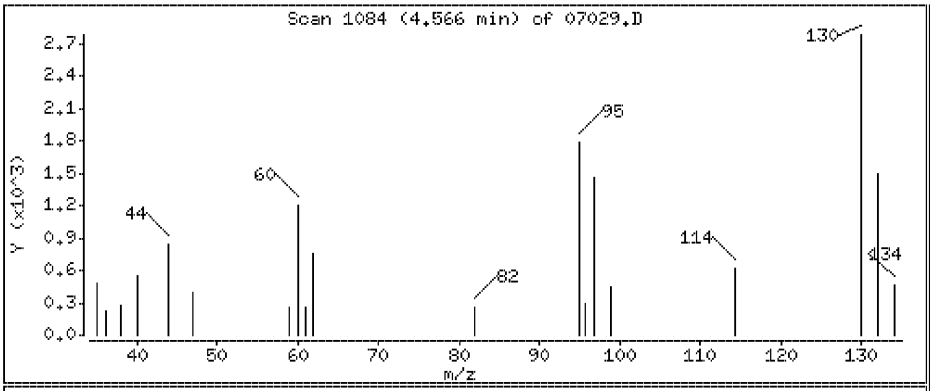
Operator: DR1

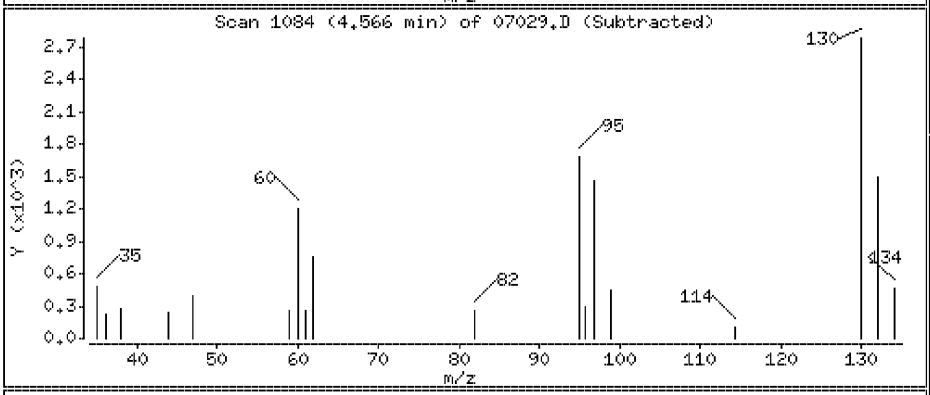
Column phase: J&W DB-5

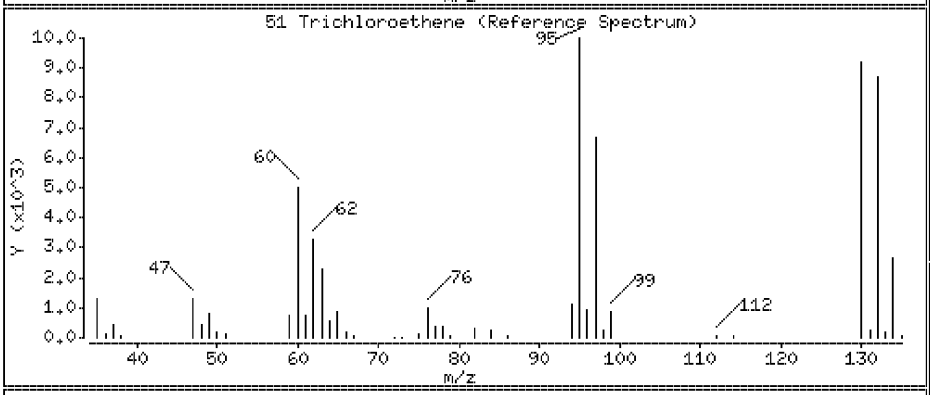
Column diameter: 0.32

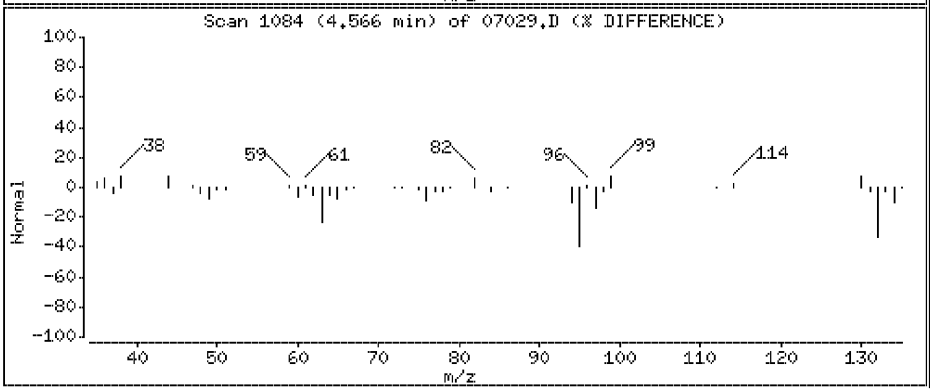
51 Trichloroethene

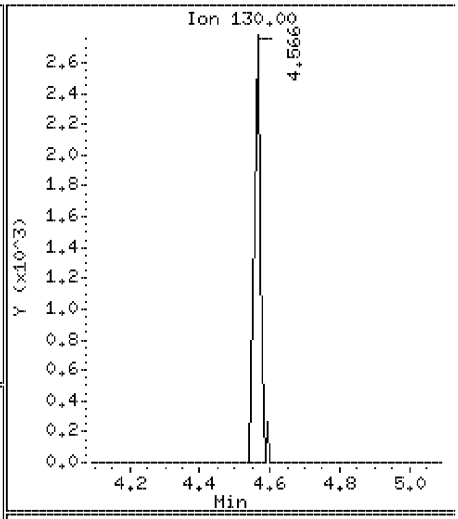
Concentration: 0.150 ppbv

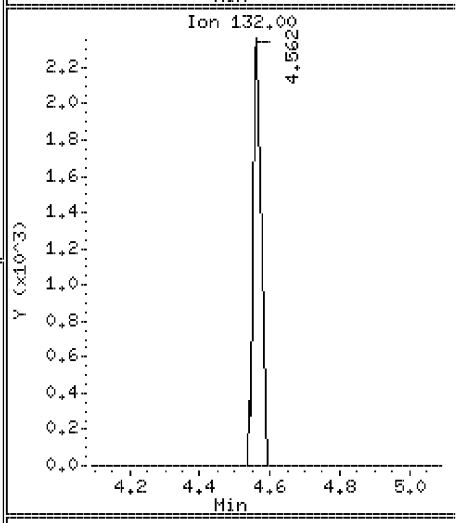


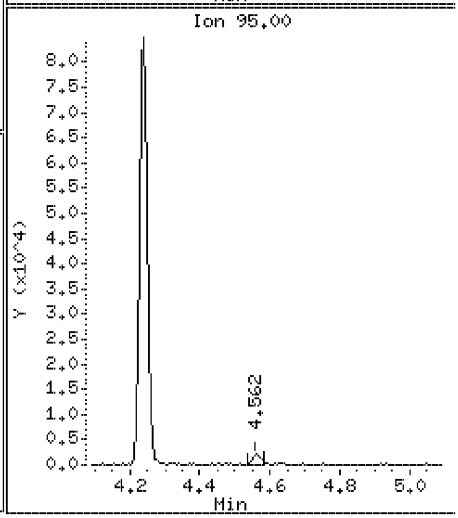












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

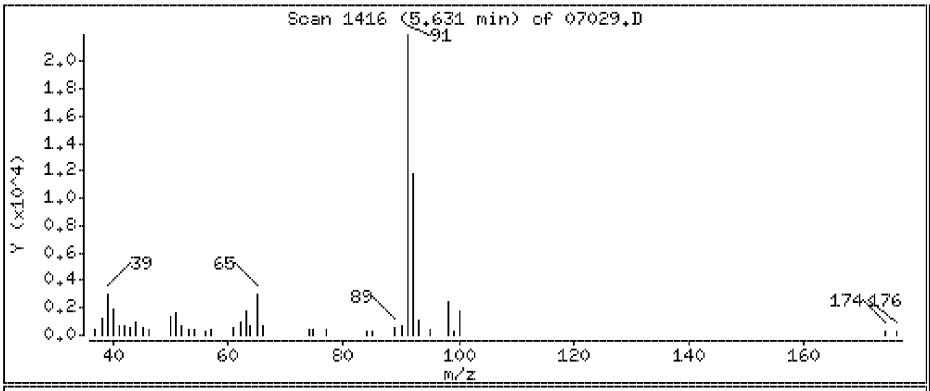
Operator: DR1

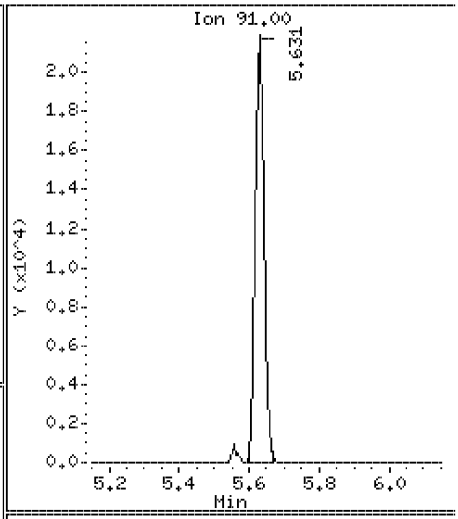
Column phase: J&W DB-5

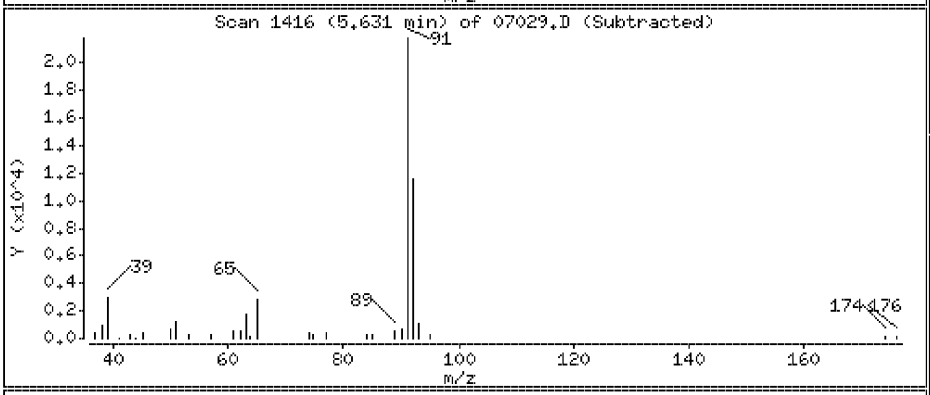
Column diameter: 0.32

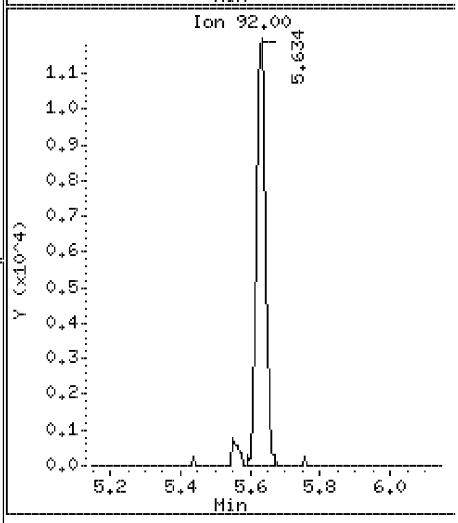
60 Toluene

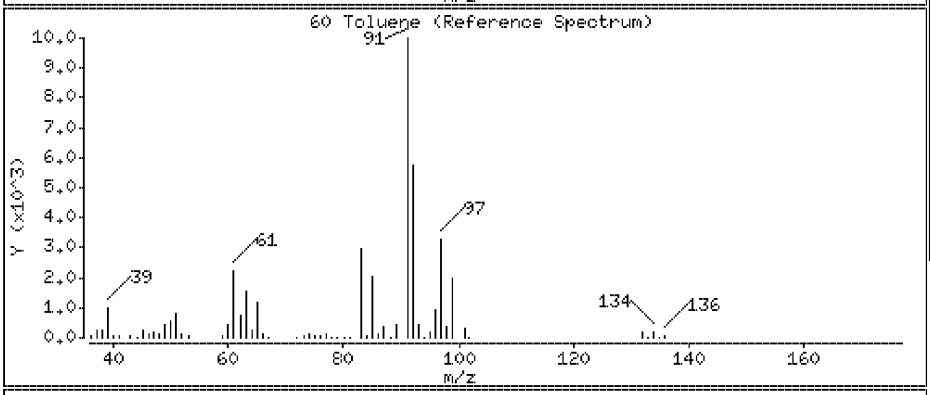
Concentration: 0.718 ppbv

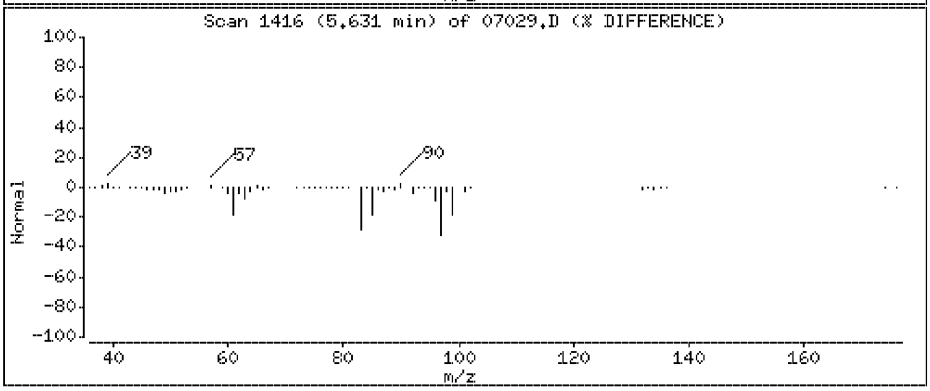












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

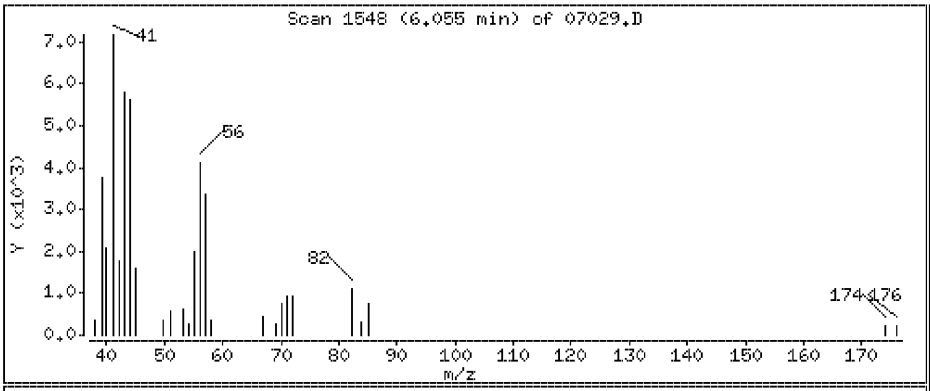
Operator: DR1

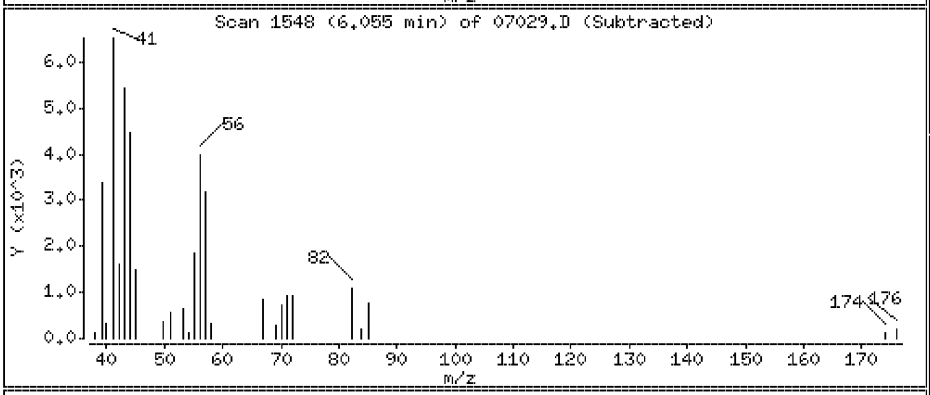
Column phase: J&W DB-5

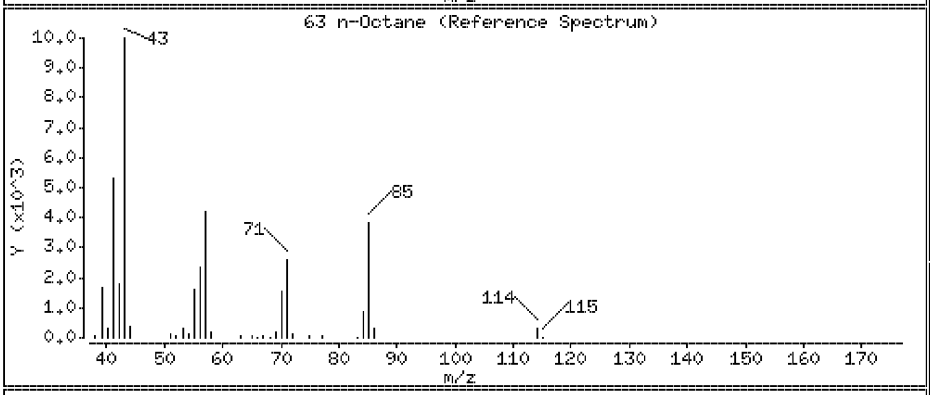
Column diameter: 0.32

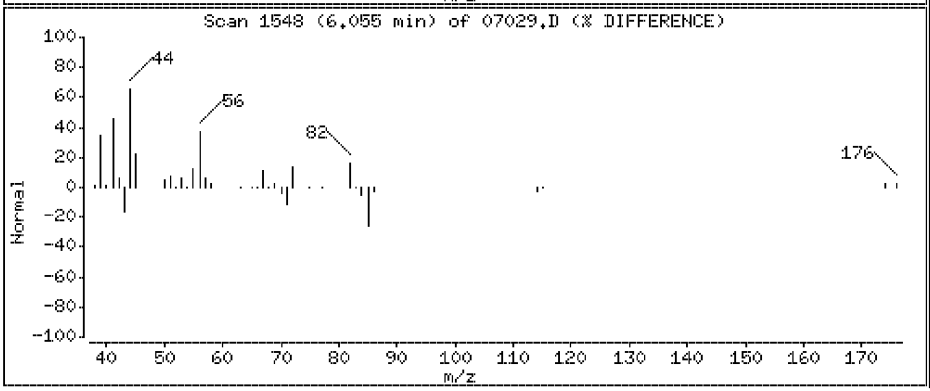
63 n-Octane

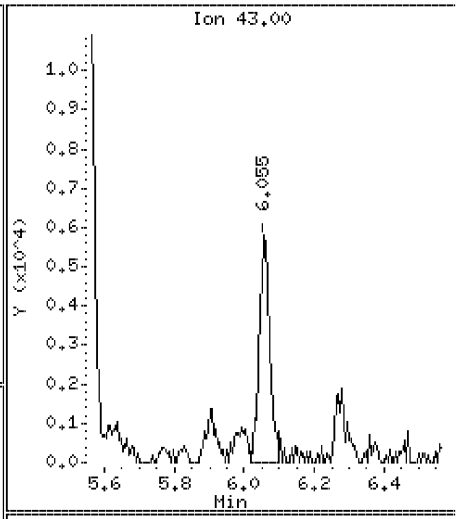
Concentration: 0.376 ppbv

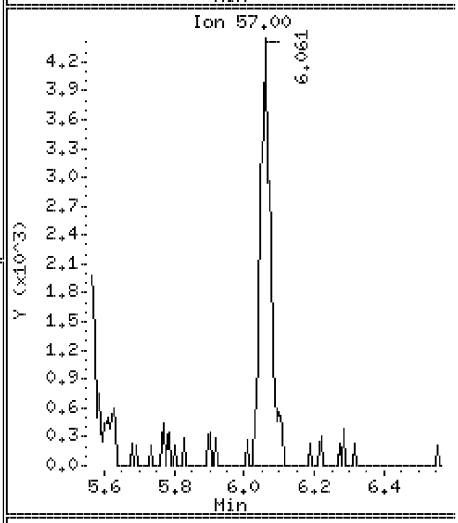


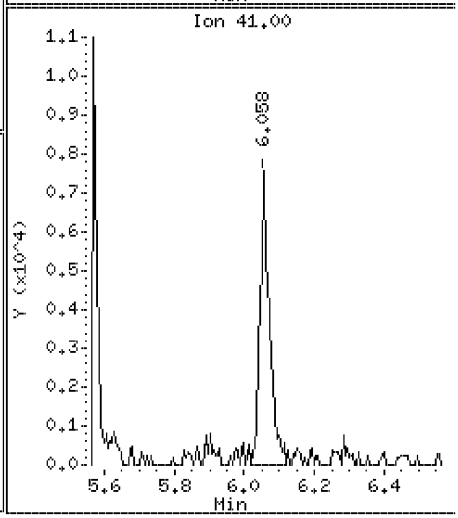












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

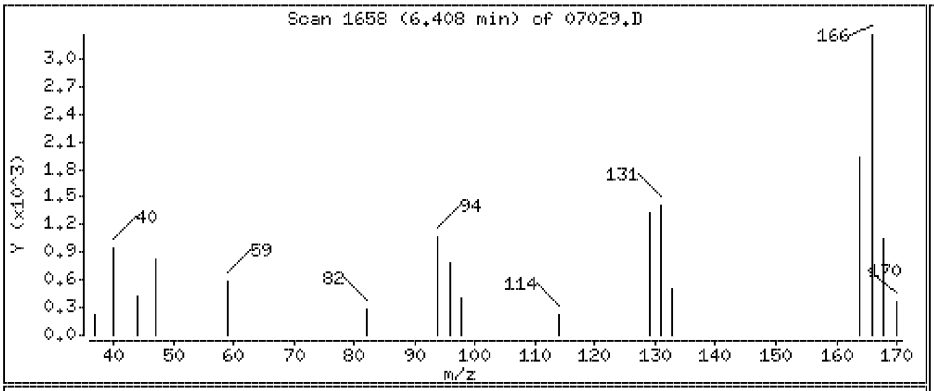
Operator: DR1

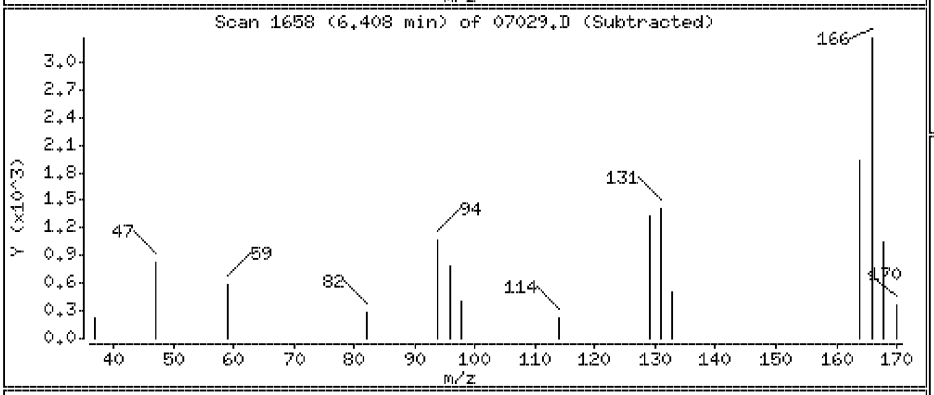
Column phase: J&W DB-5

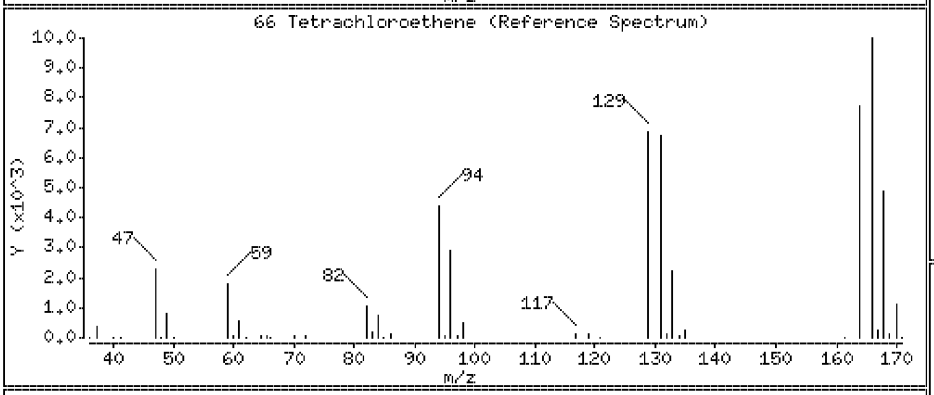
Column diameter: 0.32

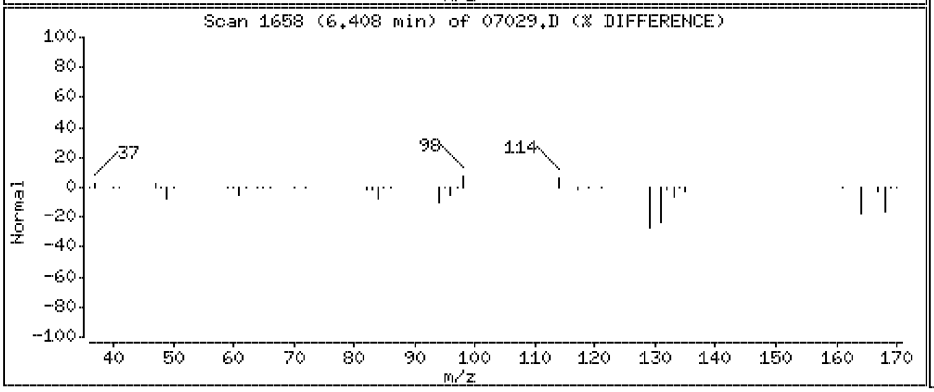
66 Tetrachloroethene

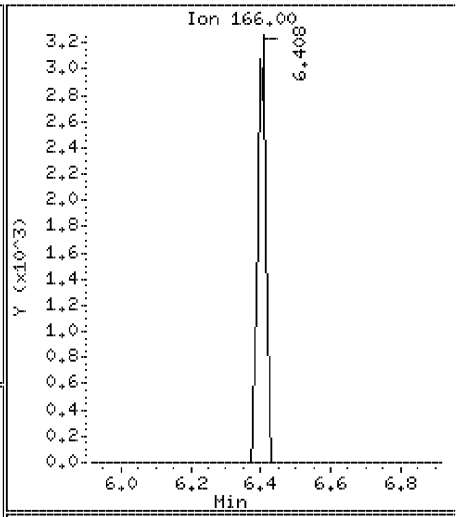
Concentration: 0.170 ppbv

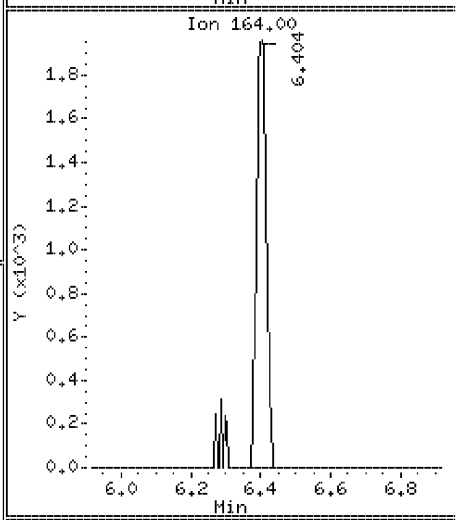


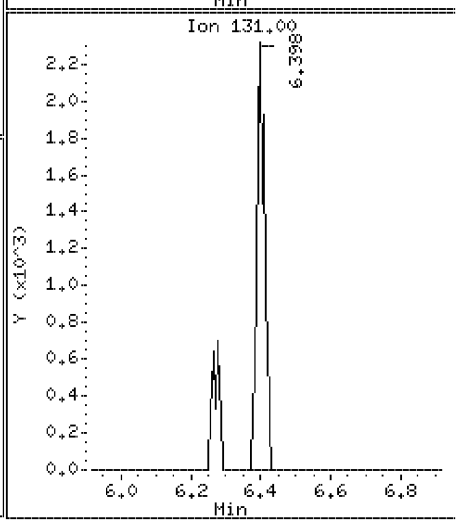












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

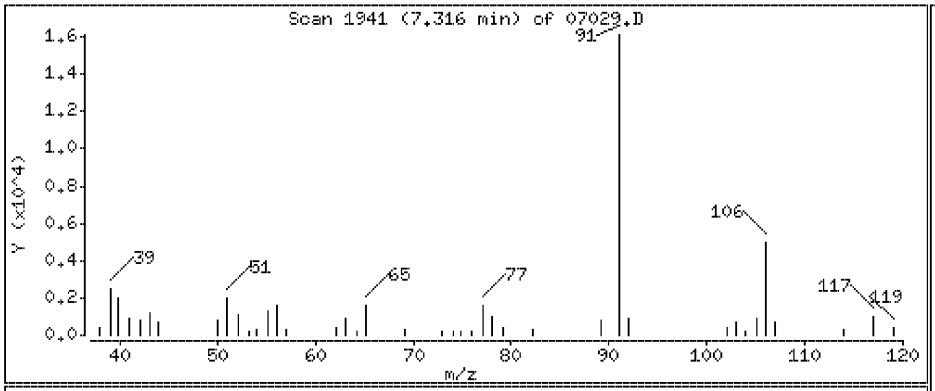
Operator: DR1

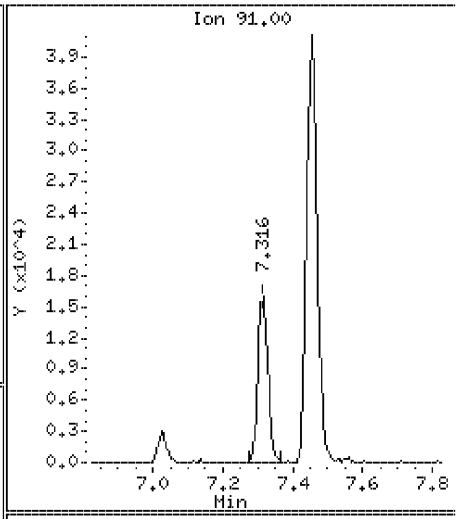
Column phase: J&W DB-5

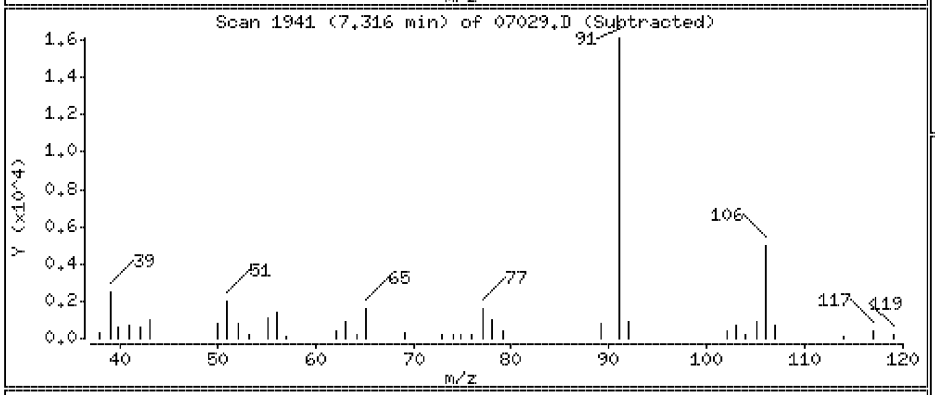
Column diameter: 0.32

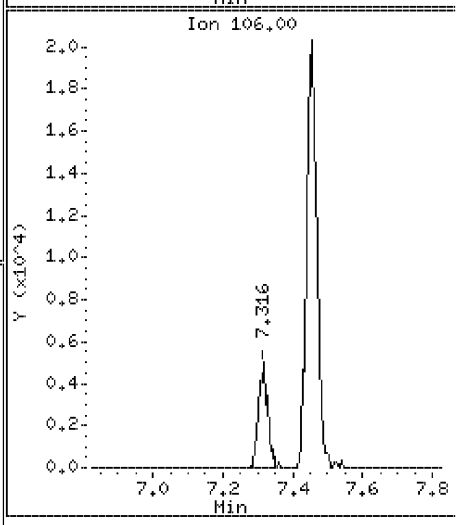
69 Ethyl Benzene

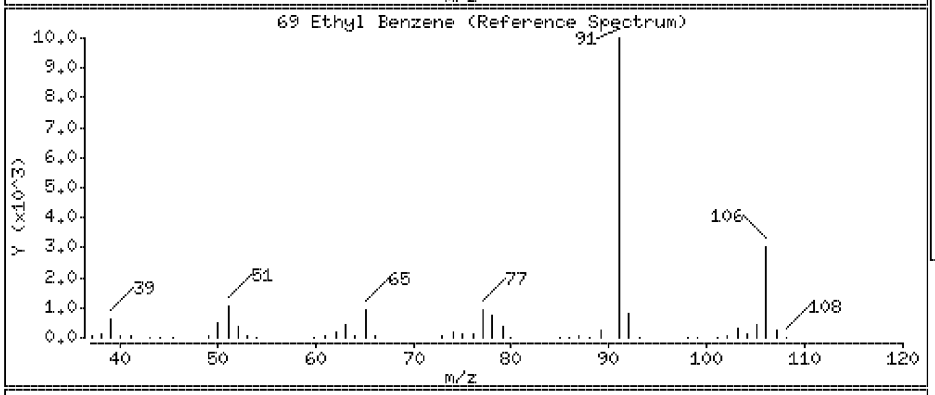
Concentration: 0.547 ppbv

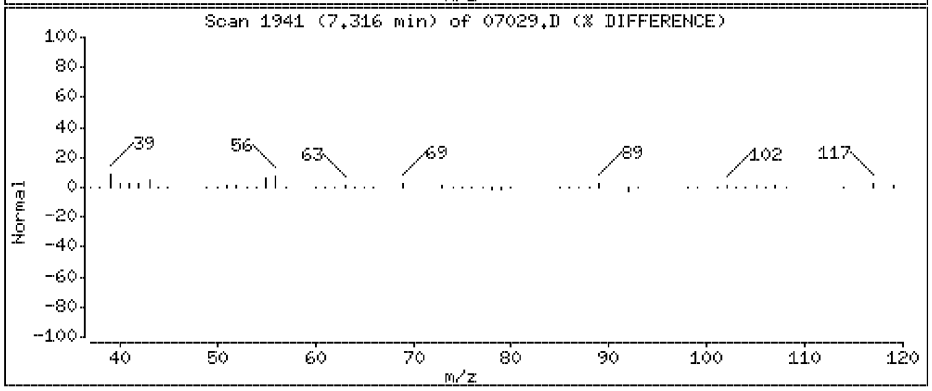












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

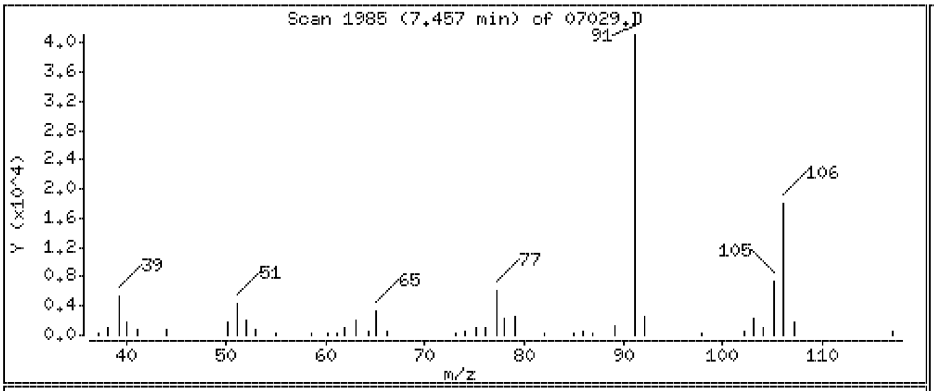
Operator: DR1

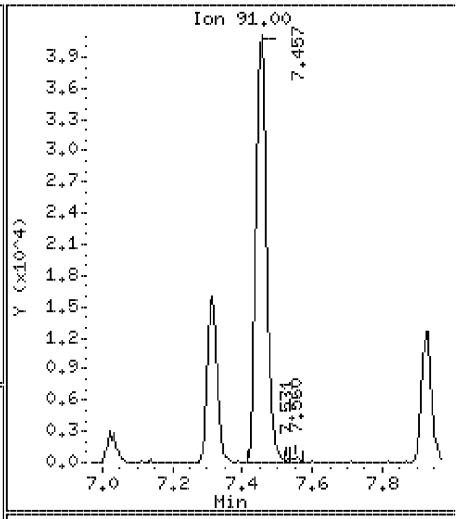
Column phase: J&W DB-5

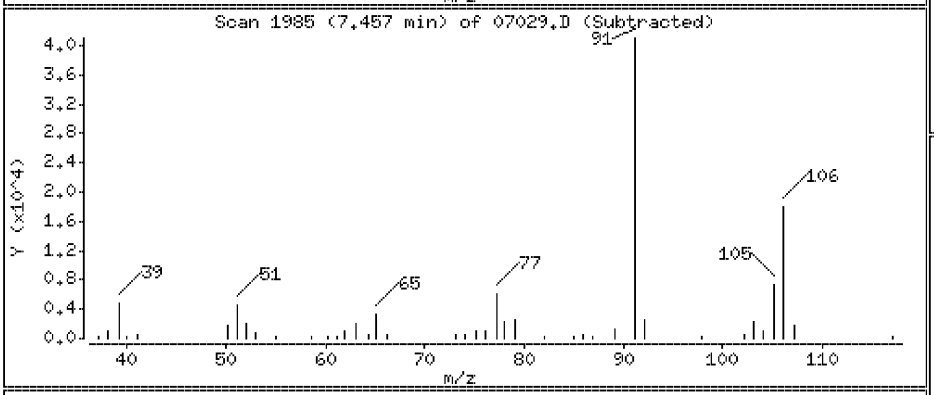
Column diameter: 0.32

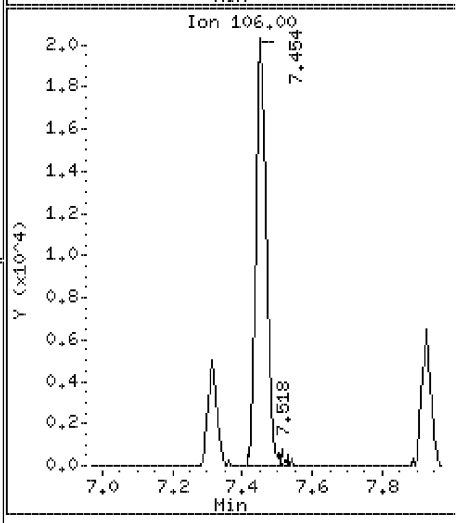
70 m&p-Xylene

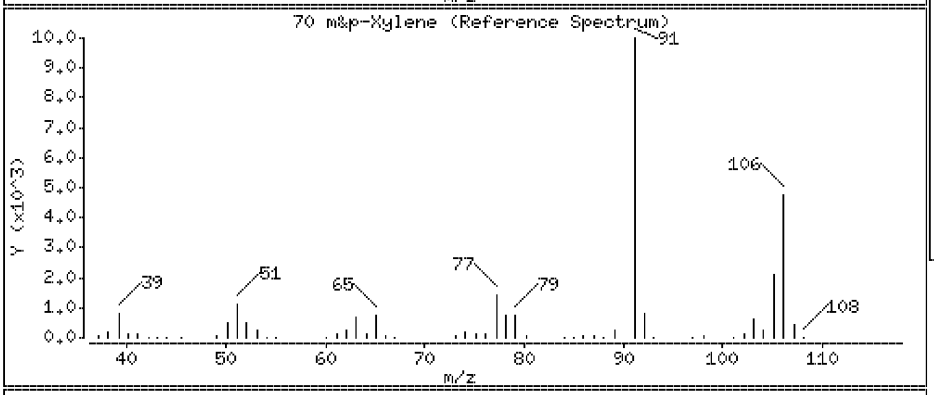
Concentration: 1.73 ppbv

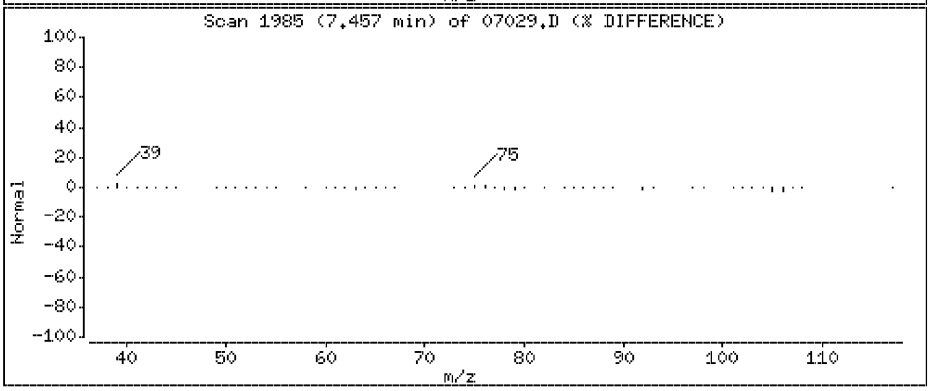












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

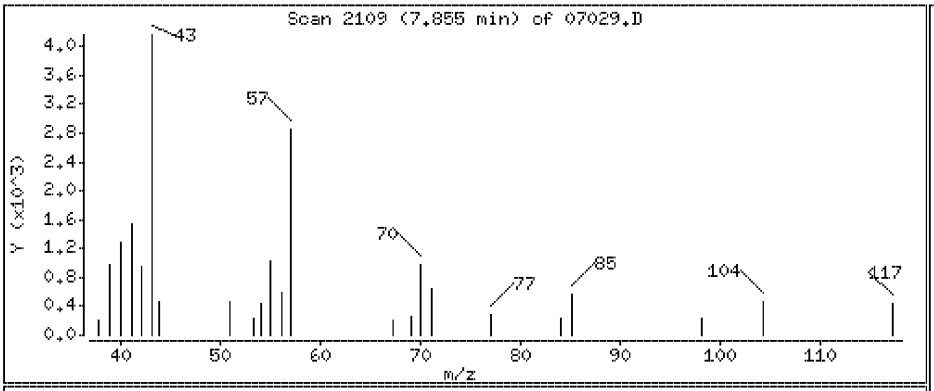
Operator: DR1

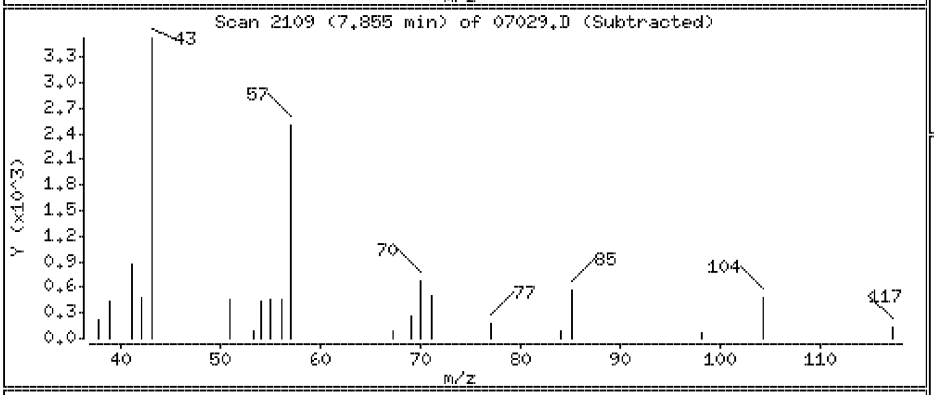
Column phase: J&W DB-5

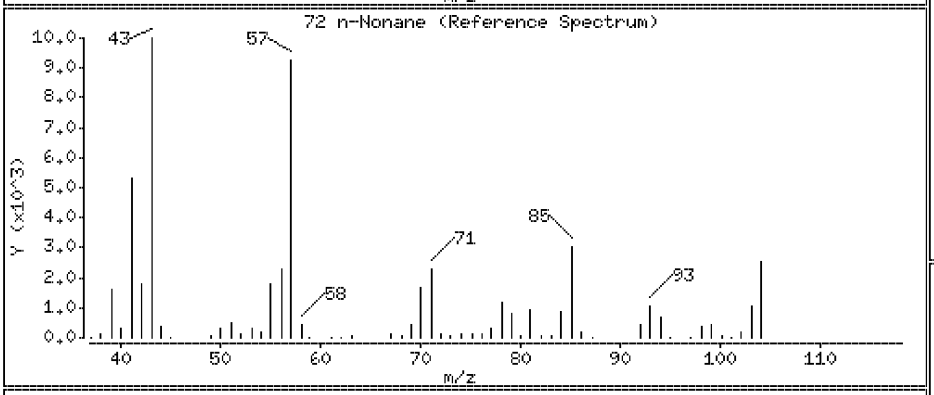
Column diameter: 0.32

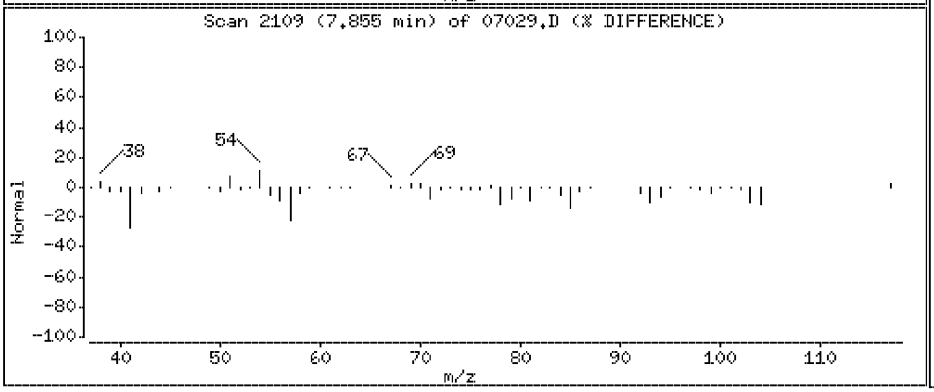
72 n-Nonane

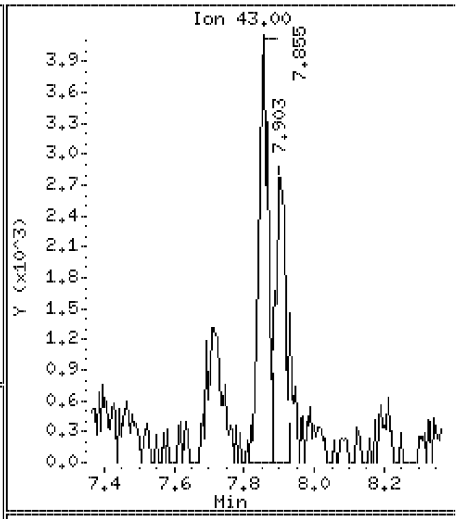
Concentration: 0.266 ppbv

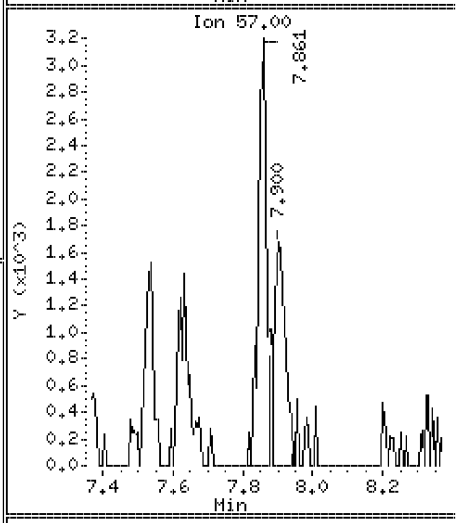


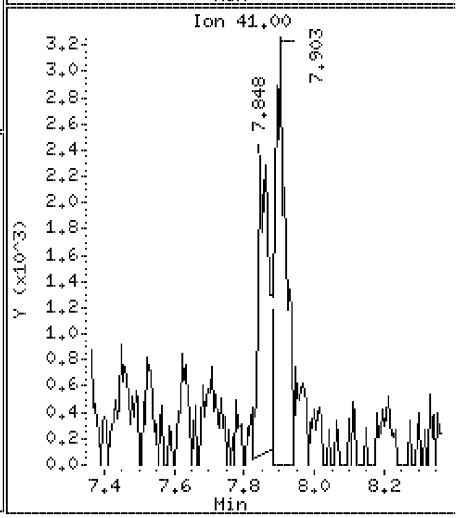












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

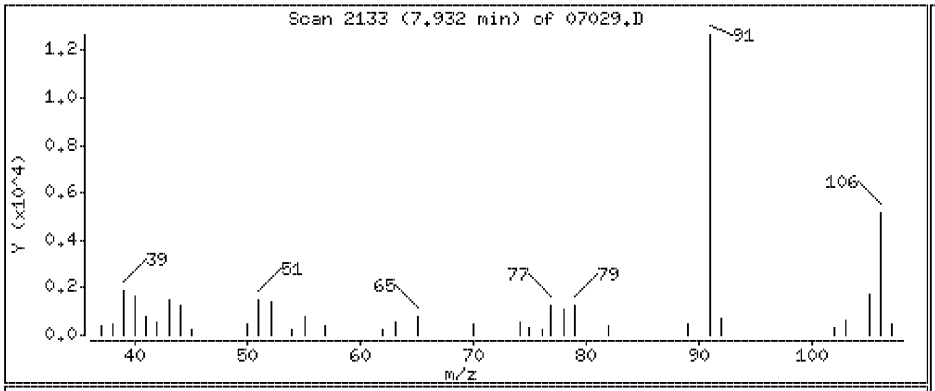
Operator: DR1

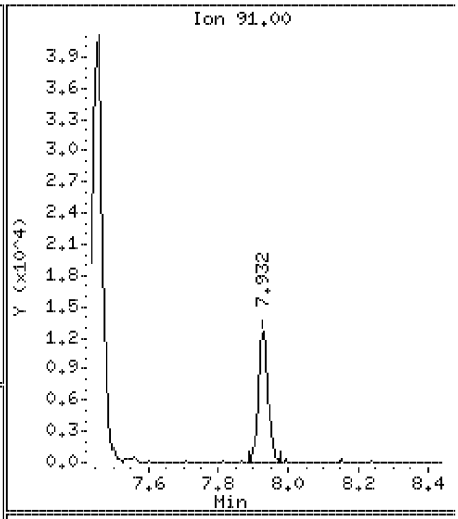
Column phase: J&W DB-5

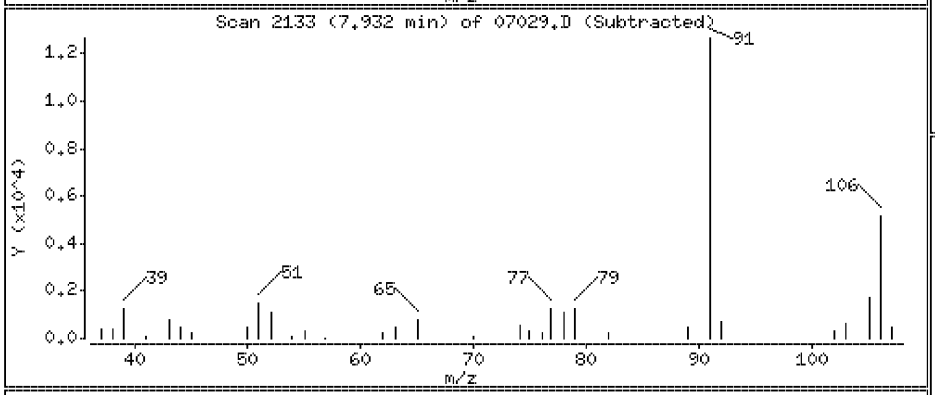
Column diameter: 0.32

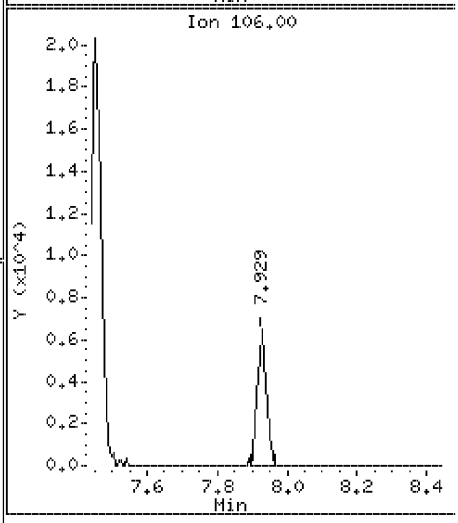
74 o-Xylene

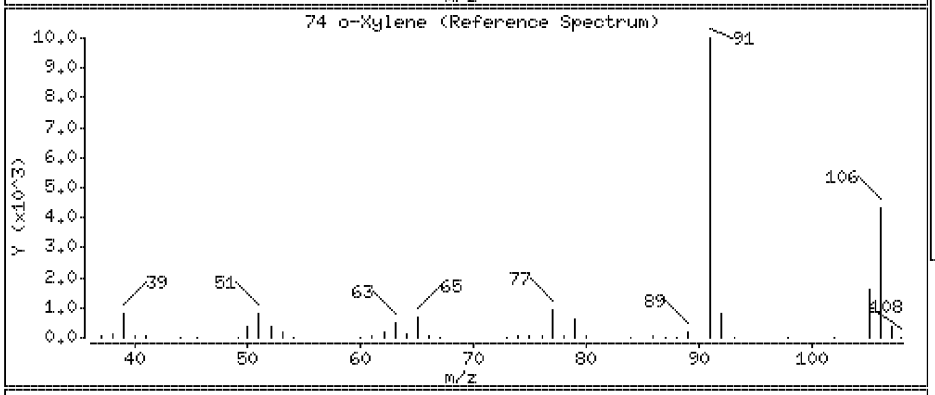
Concentration: 0.530 ppbv

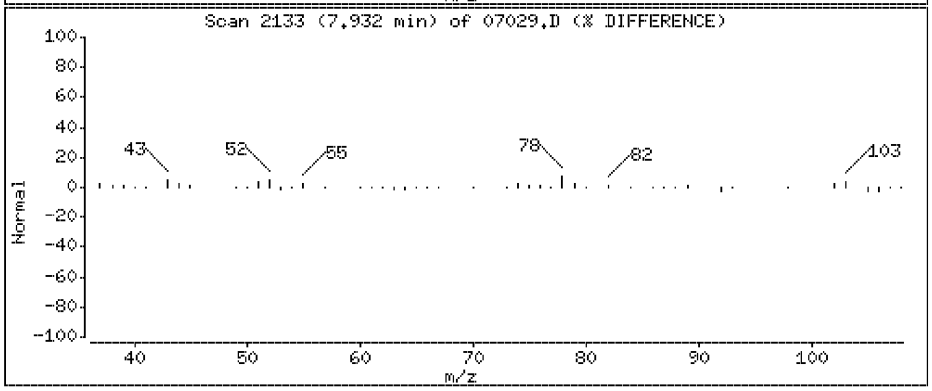












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

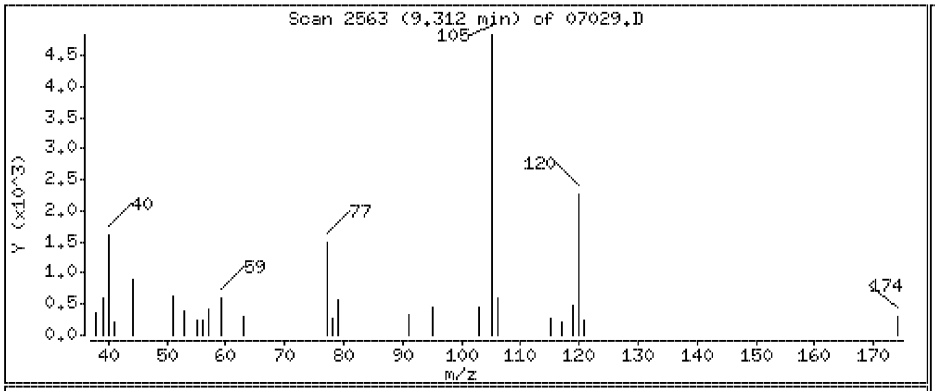
Operator: DR1

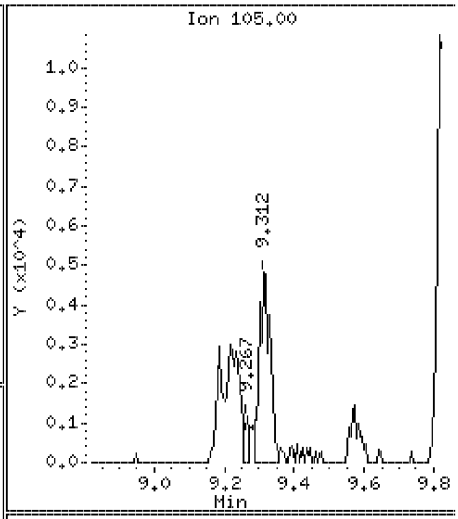
Column phase: J&W DB-5

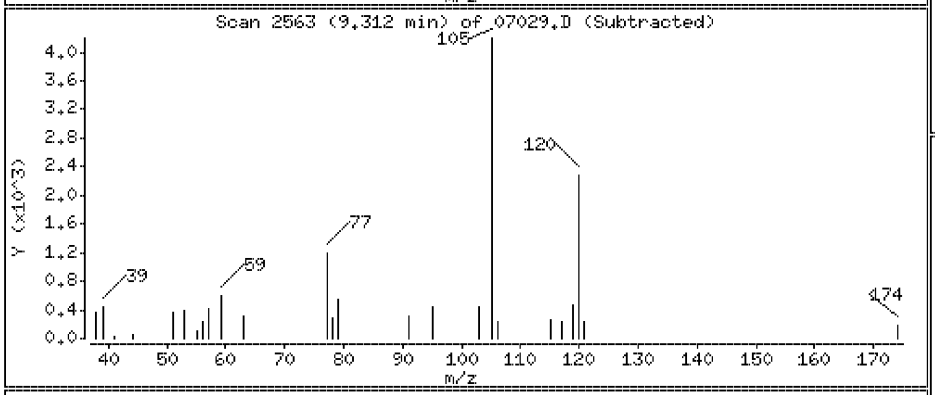
Column diameter: 0.32

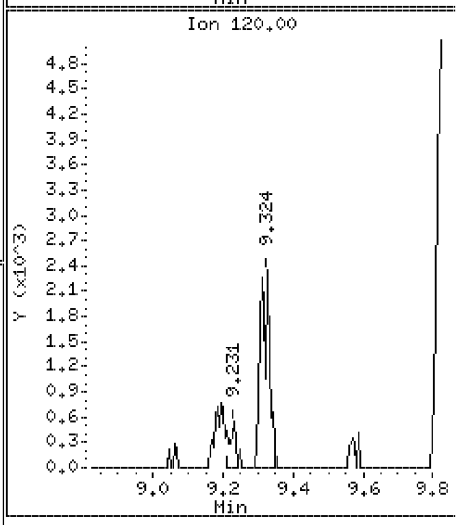
79 1,3,5-Trimethylbenzene

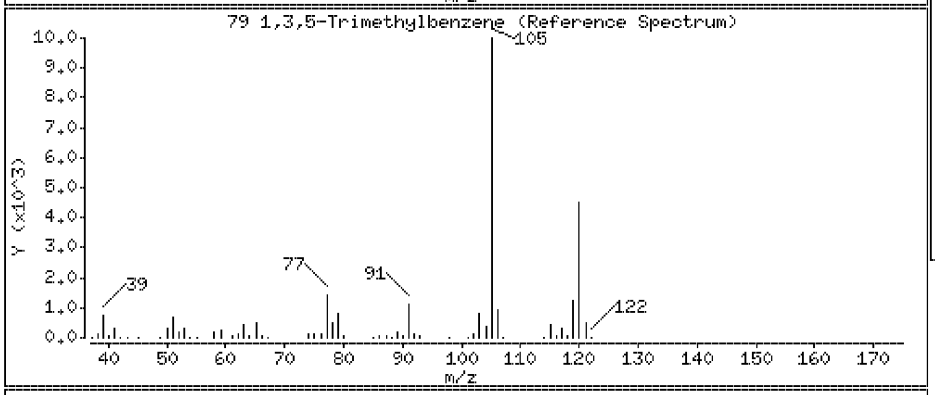
Concentration: 0.154 ppbv

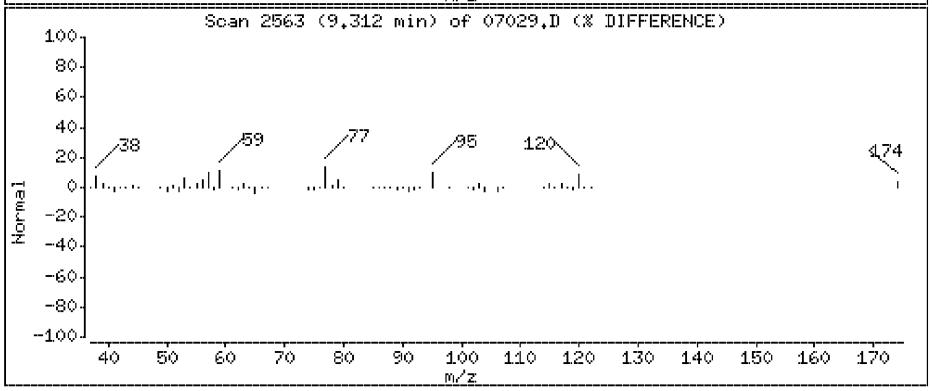












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

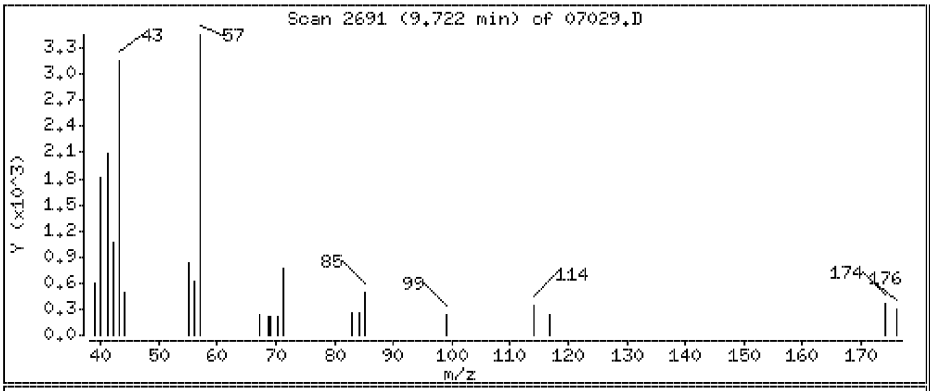
Operator: DR1

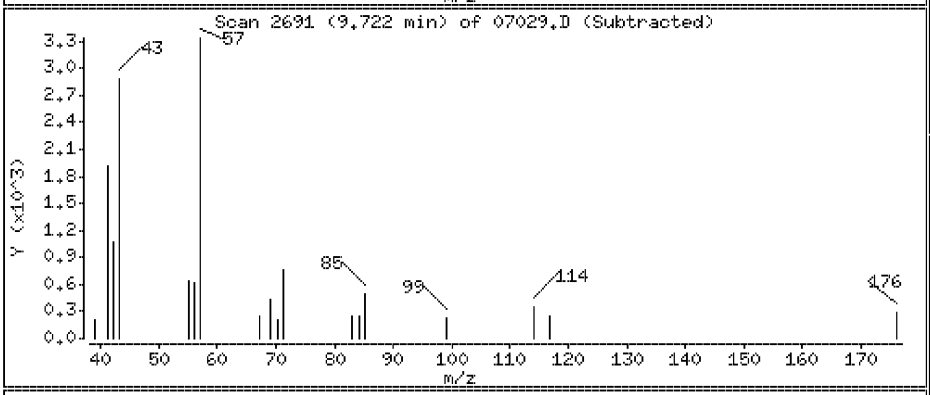
Column phase: J&W DB-5

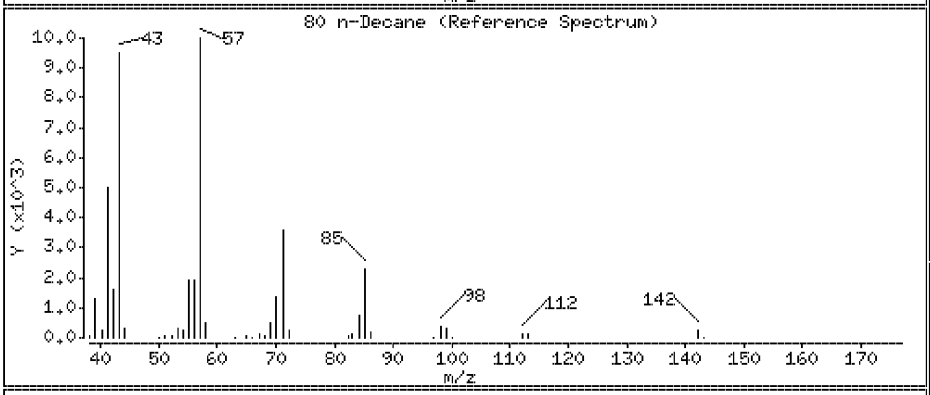
Column diameter: 0.32

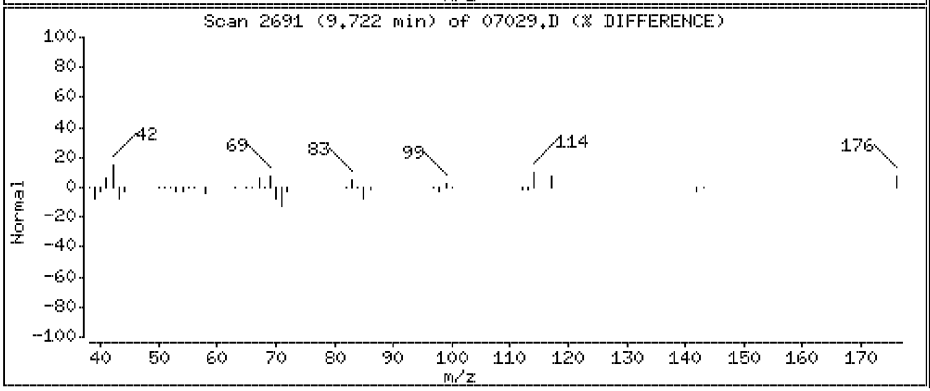
80 n-Decane

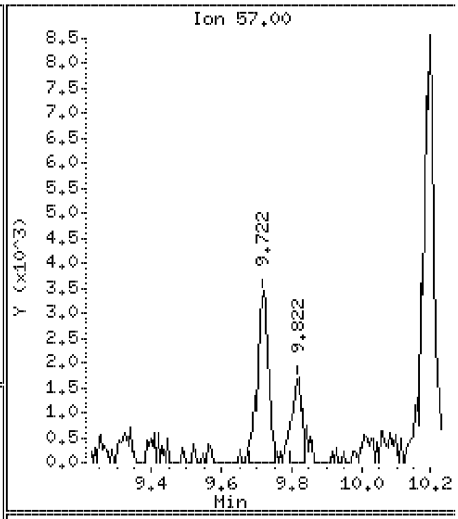
Concentration: 0.260 ppbv

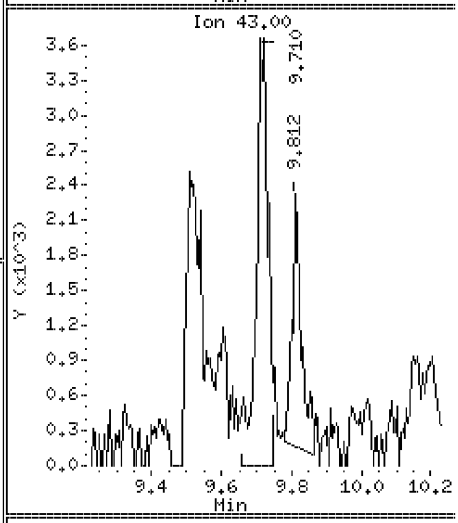


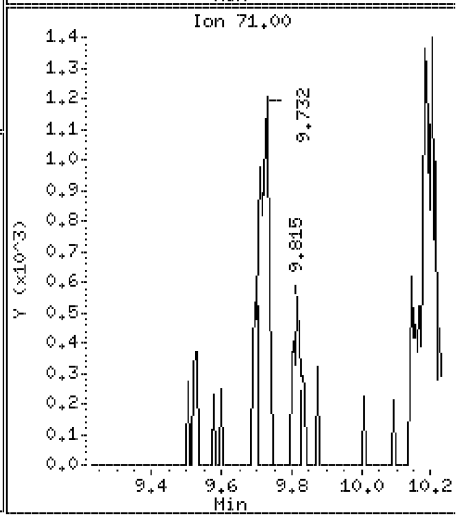












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

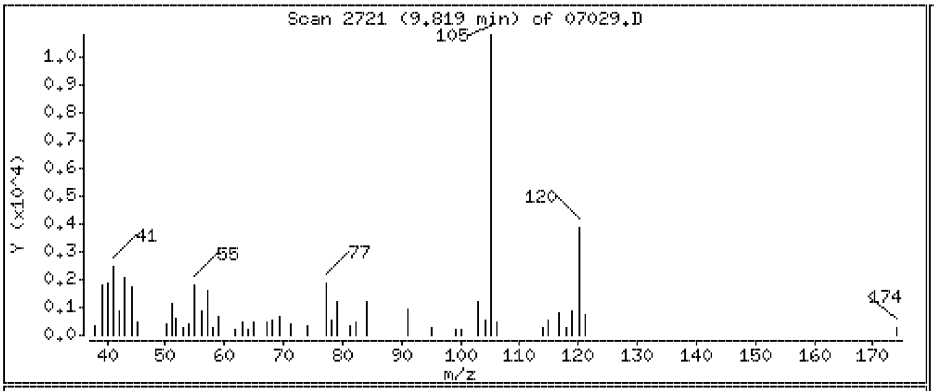
Operator: DR1

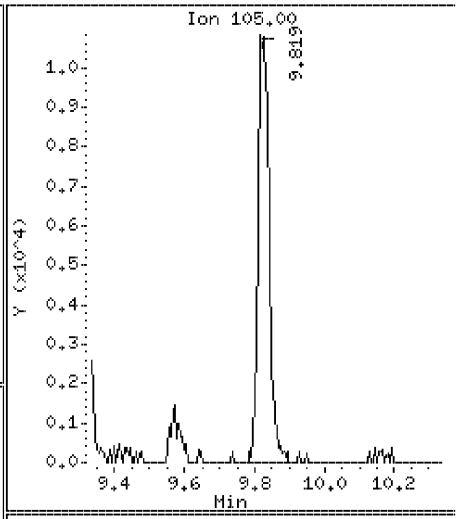
Column phase: J&W DB-5

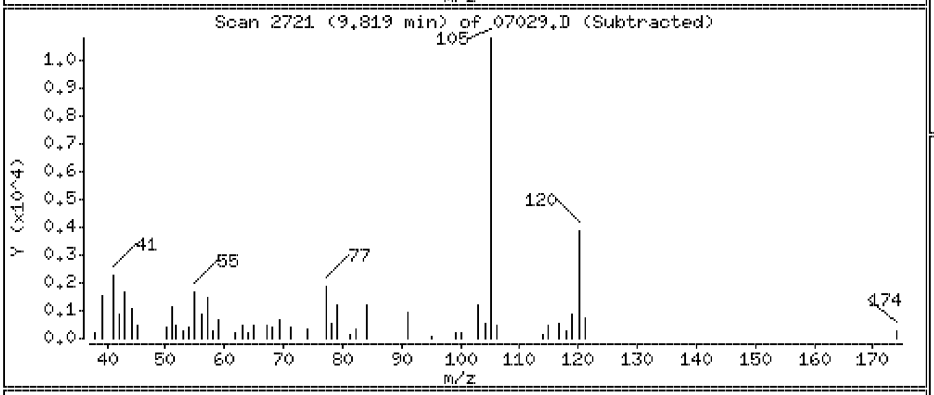
Column diameter: 0.32

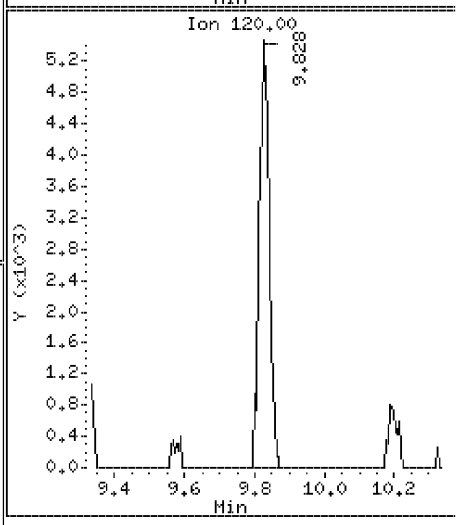
82 1,2,4-Trimethylbenzene

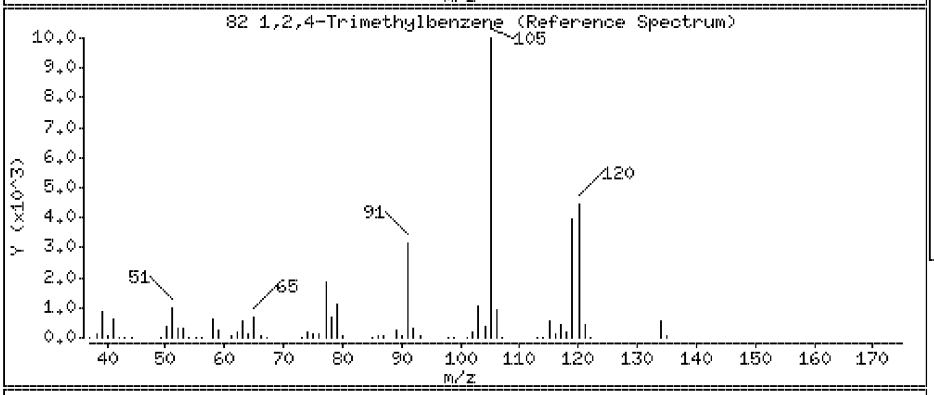
Concentration: 0.325 ppbv

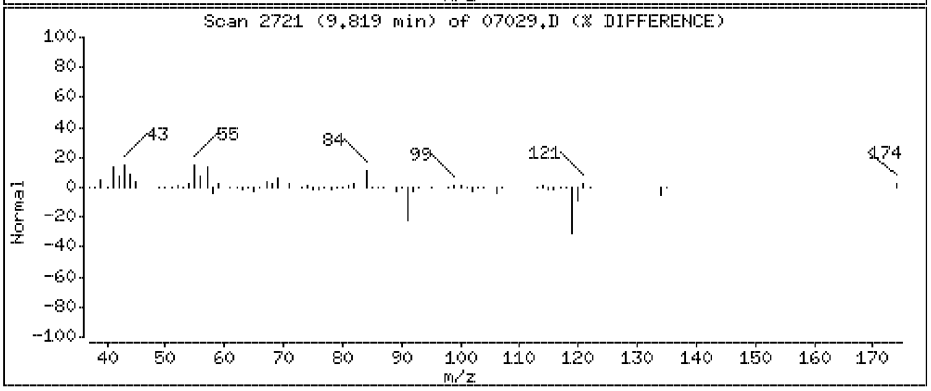












Data File: \\192.168.10.12\chem\10airD.i\031117.b\07029.D

Date : 12-MAR-2017 00:43

Client ID:

Instrument: 10airD.i

Sample Info:

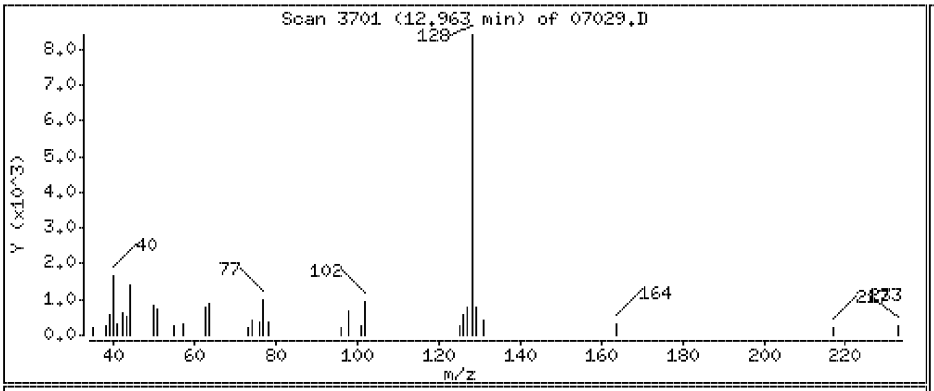
Operator: DR1

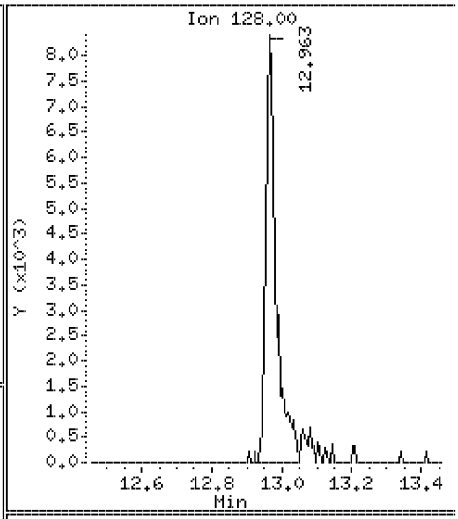
Column phase: J&W DB-5

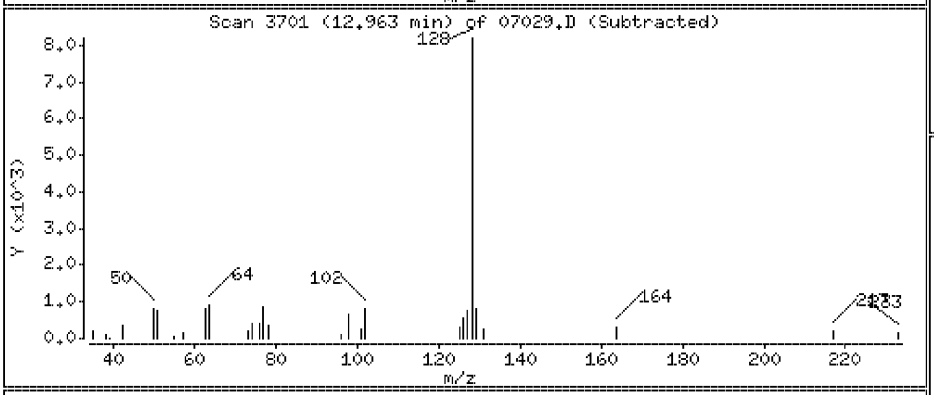
Column diameter: 0.32

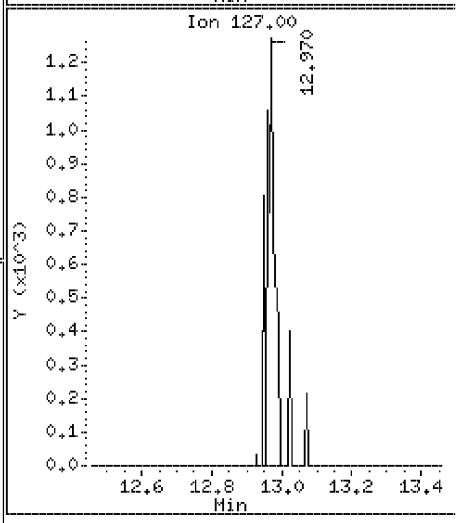
94 Naphthalene

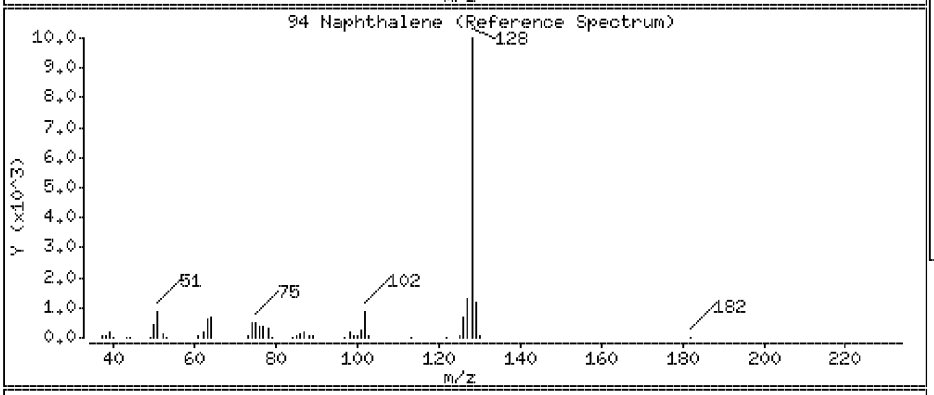
Concentration: 1.27 ppbv

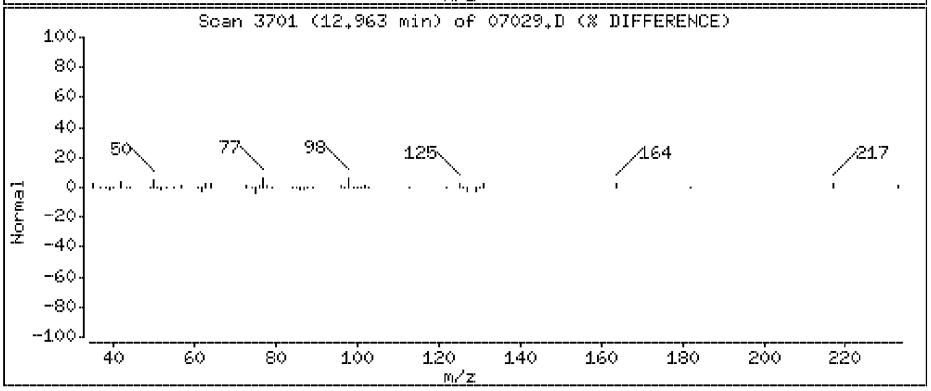






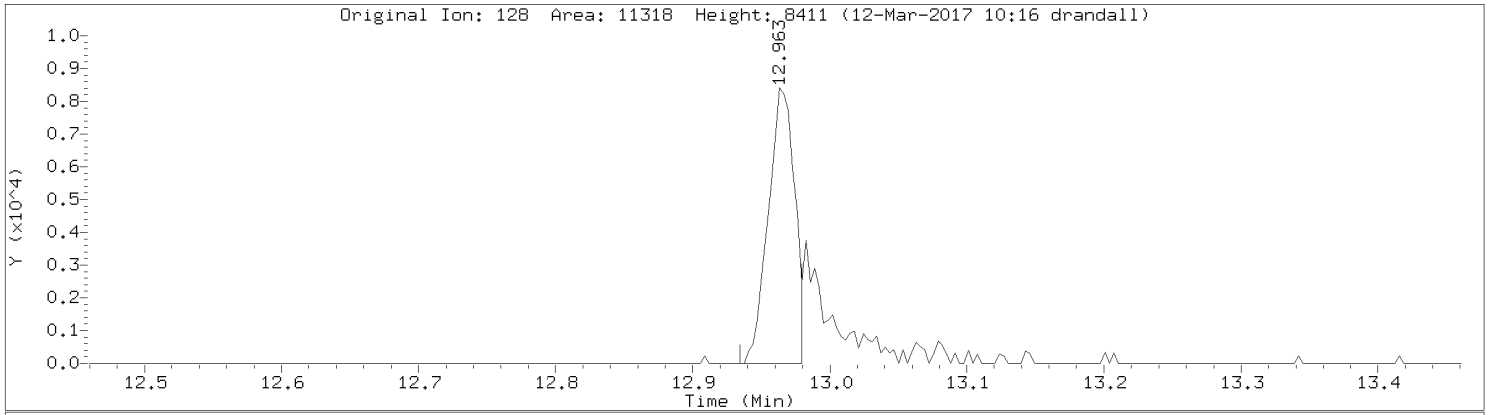


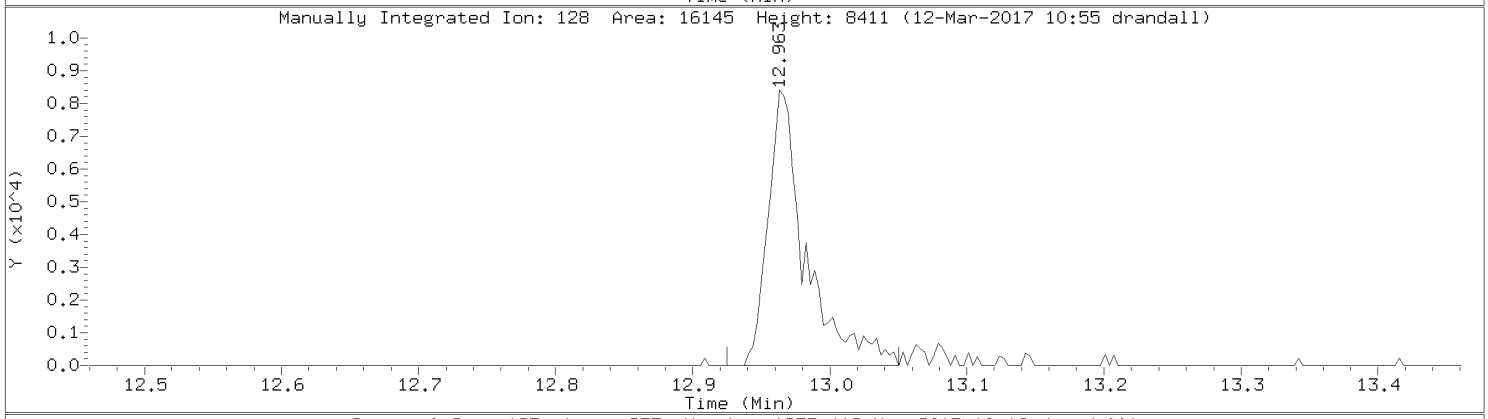


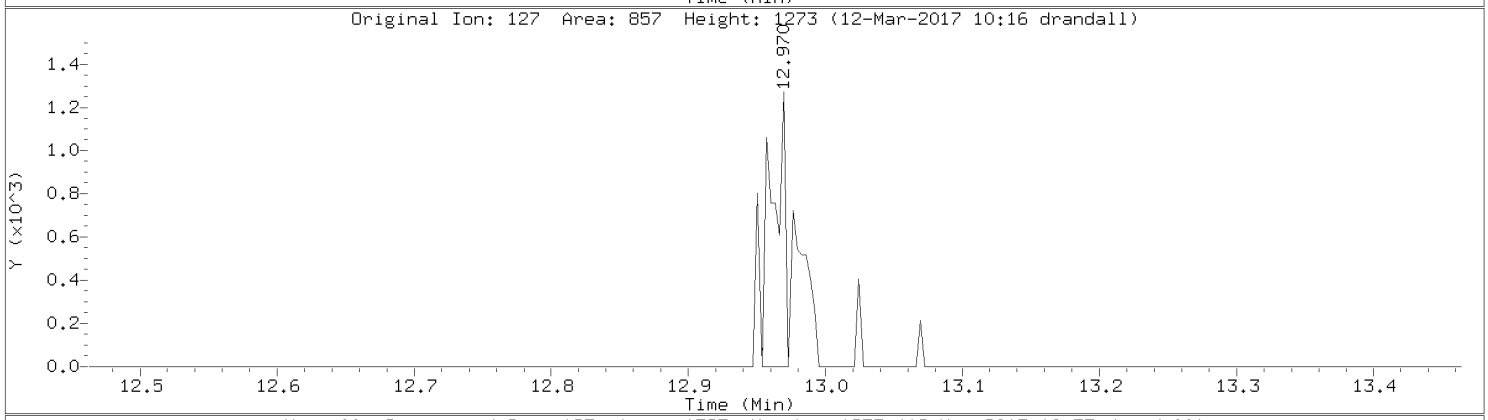


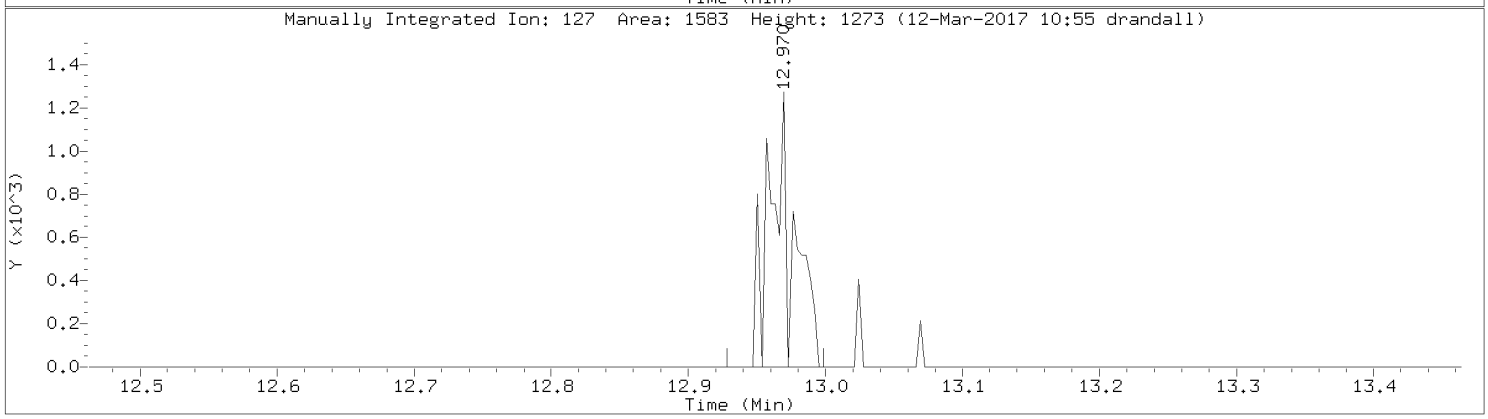
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07029.d
Injection Date: 12-MAR-2017 00:43
Instrument: 10airD.i
Lab Sample ID: 10380372021

Compound: Naphthalene
CAS Number: 91-20-3









Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airD.i\030917.B\06824.d
Level 02: all \\192.168.10.12\chem\10airD.i\030917.B\06816.d
Level 03: all \\192.168.10.12\chem\10airD.i\030917.B\06817.d
Level 04: all \\192.168.10.12\chem\10airD.i\030917.B\06818.d
Level 05: all \\192.168.10.12\chem\10airD.i\030917.B\06819.d
Level 06: all \\192.168.10.12\chem\10airD.i\030917.B\06820.d
Level 07: all \\192.168.10.12\chem\10airD.i\030917.B\06821.d

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	1540	1170	4593	3537	64728	+++++	+++++	LINR	0.00002	0.01703		0.99646
2 1,1-Difluoroethane	0.04357	0.04804	0.05072	0.05580	0.04775	0.04737	0.04761	AVRG		0.04870		7.73619
3 Chlorodifluoromethane	0.01863	0.02228	0.02503	0.02892	0.02501	0.02498	0.02413	AVRG		0.02414		12.97511
4 Propylene	0.16845	0.15579	0.17517	0.18388	0.20435	0.17912	0.15154	AVRG		0.17404		10.25983

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	0.21660	0.23232	0.25073	0.25234	0.22577	0.19609					
	0.16512						AVRG		0.21985		14.10524
6 Dichlorotetrafluoroethane	0.21687	0.22032	0.26068	0.27352	0.22529	0.19674					
	0.16778						AVRG		0.22303		16.12680
7 Chloromethane	0.10314	0.10356	0.10701	0.11638	0.10155	0.09733					
	0.09279						AVRG		0.10311		7.23534
8 Vinyl chloride	0.08107	0.07142	0.08137	0.08884	0.07983	0.07970					
	0.07807						AVRG		0.08004		6.42385
9 1,3-Butadiene	0.05150	0.05334	0.05854	0.05793	0.05543	0.05666					
	0.05615						AVRG		0.05565		4.49050
10 Bromomethane	0.07891	0.08314	0.09386	0.09433	0.08546	0.08512					
	0.08401						AVRG		0.08641		6.57117
11 Chloroethane	0.02733	0.02632	0.03009	0.03499	0.03058	0.03143					
	0.03147						AVRG		0.03032		9.47016

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Ethanol	0.02044	0.02110	0.01580	0.01423	0.01185	0.01164					
	0.01241						AVRG		0.01535		25.94074
13 Vinyl Bromide	0.07193	0.07612	0.08581	0.08688	0.08243	0.08264					
	0.08114						AVRG		0.08099		6.54231
14 Isopentane	0.09820	0.10420	0.10441	0.10704	0.09013	0.08583					
	0.08083						AVRG		0.09580		10.71672
15 Freon 123	0.18788	0.19469	0.21633	0.22569	0.20279	0.19956					
	0.19176						AVRG		0.20267		6.76358
16 Trichlorofluoromethane	0.21725	0.24276	0.25815	0.26396	0.23269	0.21038					
	0.18479						AVRG		0.23000		12.17718
17 Acrolein	976	2559	6915	16314	231383	476217					
	702641						QUAD	-0.00102	0.02553	-0.00014	0.99992
18 Acetone	+++++	45094	127456	259121	2093788	3242186					
	4023542						QUAD	0.00966	0.12124	-0.00353	0.99855

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
19 Isopropyl Alcohol	0.09840	0.10221	0.08284	0.08277	0.06787	0.05778					
	0.05343						AVRG		0.07790		24.37640
20 1,1-Dichloroethene	0.13260	0.12613	0.15077	0.15029	0.13764	0.13312					
	0.12828						AVRG		0.13698		7.27168
21 Acrylonitrile	0.04166	0.04992	0.04641	0.04979	0.05224	0.05229					
	0.05056						AVRG		0.04898		7.72130
24 Tert Butyl Alcohol (TBA)	0.10234	0.12429	0.10266	0.11366	0.11186	0.09727					
	0.08977						AVRG		0.10598		10.83817
22 Freon 113	0.16215	0.18280	0.19828	0.20805	0.18084	0.17219					
	0.15793						AVRG		0.18032		10.11336
23 Methyl Acetate	0.19386	0.18315	0.19421	0.21291	0.19817	0.18262					
	0.16810						AVRG		0.19043		7.43819
25 Methylene chloride	18501	38536	100107	202534	1714531	2873993					
	3610079						QUAD	0.00344	0.10168	-0.00265	0.99984

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
26 Allyl Chloride	0.01893	0.01734	0.02035	0.02031	0.02504	0.02528					
	0.02454						AVRG		0.02168		14.88255
27 Carbon Disulfide	0.18549	0.19402	0.20126	0.22036	0.19698	0.18792					
	0.17304						AVRG		0.19415		7.59658
28 trans-1,2-dichloroethene	0.04511	0.05854	0.07086	0.07230	0.06941	0.06922					
	0.07049						AVRG		0.06513		15.25583
29 Methyl Tert Butyl Ether	0.17309	0.17471	0.19796	0.20526	0.17905	0.14557					
	0.12234						AVRG		0.17114		16.86530
30 Vinyl Acetate	+++++	7472	19955	44910	873135	1629866					
	2321342						QUAD	-0.00646	0.24742	-0.01507	0.99976
31 1,1-Dichloroethane	0.14266	0.14428	0.15287	0.16616	0.14901	0.14216					
	0.13877						AVRG		0.14799		6.26917
33 Methyl Ethyl Ketone	0.02887	0.02596	0.03542	0.03576	0.03194	0.03206					
	0.03255						AVRG		0.03179		10.90813

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
34 n-Hexane	0.11065	0.11515	0.12077	0.12960	0.11274	0.10908						
	0.10669							AVRG		0.11495		6.87253
35 Di-isopropyl Ether	0.27520	0.26248	0.30842	0.32466	0.28379	0.25958						
	0.23677							AVRG		0.27870		10.78494
36 cis-1,2-Dichloroethene	0.05794	0.06650	0.07341	0.08446	0.07762	0.07766						
	0.07886							AVRG		0.07378		12.04314
37 Ethyl Acetate	0.19519	0.16489	0.19087	0.18871	0.18905	0.18322						
	0.17558							AVRG		0.18393		5.68879
38 Ethyl Tert-Butyl Ether	18838	42367	112323	234007	2077380	3339677						
	4119637							QUAD	0.00278	0.24714	-0.01412	0.99952
39 Chloroform	0.16238	0.18112	0.20150	0.21887	0.19205	0.18095						
	0.16737							AVRG		0.18632		10.53236
40 Tetrahydrofuran	0.09657	0.08614	0.09318	0.10247	0.09058	0.09041						
	0.09042							AVRG		0.09282		5.70880

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
41 1,1,1-Trichloroethane	0.18401	0.17441	0.19473	0.20542	0.19106	0.18568						
	0.17670							AVRG		0.18743		5.71926
42 1,2-Dichloroethane	0.13624	0.12936	0.13943	0.14913	0.13603	0.13315						
	0.12961							AVRG		0.13614		4.99394
43 Benzene	0.22494	0.21839	0.22070	0.24825	0.22318	0.20961						
	0.19534							AVRG		0.22006		7.30778
45 Carbon tetrachloride	0.15916	0.15569	0.17724	0.18207	0.19678	0.18698						
	0.17697							AVRG		0.17641		8.30115
44 Cyclohexane	0.10503	0.12303	0.12165	0.13953	0.10473	0.10200						
	0.09928							AVRG		0.11361		13.04487
46 Tert Amyl Methyl Ether	63905	79317	102324	138989	874123	1669761						
	2341559							QUAD	0.01680	0.22763	-0.01021	0.99993
48 2,2,4-Trimethylpentane	33673	74834	196627	408650	2853110	4281827						
	5176367							QUAD	0.01662	0.33232	-0.02100	0.99805

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
49 Heptane	0.16398	0.18006	0.18854	0.19664	0.16171	0.15756					
	0.15403						AVRG		0.17179		9.64423
50 1,2-Dichloropropane	0.10071	0.09948	0.10253	0.11084	0.10005	0.09919					
	0.09677						AVRG		0.10137		4.46036
51 Trichloroethene	0.11056	0.11084	0.12983	0.13997	0.11987	0.11824					
	0.11625						AVRG		0.12079		8.82006
52 Methyl methacrylate	0.08054	0.07151	0.07791	0.08266	0.08069	0.08176					
	0.08362						AVRG		0.07981		5.12054
53 Bromodichloromethane	0.19658	0.18007	0.20957	0.23175	0.22010	0.21452					
	0.20343						AVRG		0.20800		8.06120
54 1,4-Dioxane	0.02183	0.02055	0.01786	0.01103	0.01182	+++++					
	+++++						AVRG		0.01662		29.85530
55 Methylcyclohexane	0.04558	0.04729	0.04977	0.05085	0.04387	0.04370					
	0.04503						AVRG		0.04658		6.07043

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
56 Methyl Isobutyl Ketone	18237	39511	107005	225353	2069026	3434951					
	4349059						QUAD	0.00157	0.24433	-0.01265	0.99972
57 cis-1,3-Dichloropropene	0.12163	0.12160	0.13723	0.14430	0.14446	0.14706					
	0.14381						AVRG		0.13716		8.04291
58 trans-1,3-Dichloropropene	3156	6143	18879	40683	490872	1021474					
	1565108						QUAD	-0.00091	0.12850	0.00234	1.00000
60 Toluene	0.31746	0.29017	0.32203	0.32421	0.29112	0.27402					
	0.25033						AVRG		0.29562		9.32527
61 1,1,2-Trichloroethane	0.11642	0.11308	0.11503	0.12050	0.11170	0.11249					
	0.11201						AVRG		0.11446		2.76191
62 Methyl Butyl Ketone	0.22159	0.23095	0.25754	0.27796	0.24060	0.20324					
	+++++						AVRG		0.23865		11.10296
63 n-Octane	0.25812	0.25955	0.26094	0.27813	0.23767	0.22718					
	0.21550						AVRG		0.24816		8.87037

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
64 Dibromochloromethane	0.23281	0.21028	0.23986	0.24523	0.27444	0.26734					
	0.25317						AVRG		0.24616		8.78056
65 1,2-Dibromoethane	0.21312	0.19397	0.20881	0.23086	0.21462	0.21479					
	0.21360						AVRG		0.21282		5.09144
66 Tetrachloroethene	0.20903	0.21430	0.24896	0.25105	0.21364	0.20744					
	0.20310						AVRG		0.22107		9.10458
68 Chlorobenzene	0.28078	0.26675	0.28572	0.28828	0.26349	0.25660					
	0.24355						AVRG		0.26931		6.11314
69 Ethyl Benzene	0.50327	0.47603	0.45663	0.47974	0.41937	0.38955					
	0.34681						AVRG		0.43877		12.75779
70 m&p-Xylene	24145	52247	111926	226254	2048253	3556376					
	4603197						QUAD	0.00435	0.34713	-0.02034	0.99994
71 Bromoform	4583	10241	24551	51685	909834	1863473					
	2712331						QUAD	-0.00591	0.29645	-0.00911	0.99981

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
72 n-Nonane	0.21082	0.23713	0.24388	0.25223	0.23057	0.22035					
	0.20782						AVRG		0.22897		7.31587
73 Styrene	0.19098	0.21718	0.22422	0.23896	0.22822	0.23239					
	0.22602						AVRG		0.22257		6.95809
74 o-Xylene	0.43650	0.41012	0.37324	0.36701	0.32960	0.31700					
	0.29867						AVRG		0.36173		13.86910
75 1,1,2,2-Tetrachloroethane	0.25303	0.23687	0.24069	0.24399	0.24016	0.23667					
	0.23103						AVRG		0.24035		2.87537
76 Isopropylbenzene	0.49572	0.50614	0.48632	0.48549	0.42440	0.38819					
	0.34853						AVRG		0.44783		13.69251
77 N-Propylbenzene	0.44917	0.49704	0.50623	0.51304	0.49183	0.44903					
	0.39071						AVRG		0.47101		9.30597
78 4-Ethyltoluene	0.35338	0.44583	0.37129	0.40581	0.39792	0.38025					
	0.34239						AVRG		0.38527		9.06986

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,3,5-Trimethylbenzene	+++++	29082	57888	113750	1085497	2174939	3073091	QUAD	0.00137	0.35452	-0.01737	0.99983
80 n-Decane	0.12831	0.18032	0.16571	0.17246	0.16335	0.16789	0.15960	AVRG		0.16252		10.15451
81 Tert-Butyl Benzene	0.36334	0.41040	0.36604	0.35739	0.34035	0.33486	0.31218	AVRG		0.35493		8.69893
82 1,2,4-Trimethylbenzene	+++++	37905	64983	116341	1048667	2106251	2945609	QUAD	0.00383	0.34346	-0.01806	0.99971
83 1,3-Dichlorobenzene	0.32184	0.25503	0.24361	0.23439	0.21931	0.22303	0.21276	AVRG		0.24428		15.22283
84 Sec- Butylbenzene	0.41978	0.50516	0.45807	0.46758	0.44264	0.41696	0.37434	AVRG		0.44065		9.53347
86 Benzyl Chloride	0.29888	0.27449	0.22345	0.20716	0.23605	0.24322	0.22501	AVRG		0.24404		13.11445

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
87 1,4-Dichlorobenzene	0.32184	0.25503	0.24015	0.23977	0.21975	0.22303						
	0.21276							AVRG		0.24462		15.12519
88 p-Isopropyltoluene	0.36111	0.44990	0.40772	0.41225	0.39401	0.37646						
	0.34571							AVRG		0.39245		8.91889
89 1,2,3-Trimethylbenzene	0.28517	0.33052	0.32061	0.32138	0.30796	0.29802						
	0.28584							AVRG		0.30707		5.87316
90 1,2-Dichlorobenzene	0.24638	0.24296	0.21186	0.20868	0.20530	0.20536						
	0.19876							AVRG		0.21704		8.89711
91 N-Butylbenzene	0.30304	0.34994	0.31609	0.34266	0.33174	0.31856						
	0.29193							AVRG		0.32199		6.48135
92 1,2-Dibromo-3-Chloropropane	0.05889	0.05356	0.03871	0.04561	0.05257	0.05310						
	0.04462							AVRG		0.04958		13.83891
93 1,2,4-Trichlorobenzene	+++++	+++++	0.05656	0.07964	0.04680	0.05263						
	0.05622							AVRG		0.05837		21.44740

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	+++++	0.12813	0.09468	0.13729	0.07984	0.08402					
	+++++						AVRG		0.10479		25.05538
95 Hexachlorobutadiene	+++++	0.10871	0.08714	0.11294	0.06387	0.06930					
	0.08076						AVRG		0.08712		23.13608
$ 32 Hexane-d14(S)	0.52367	0.53227	0.50892	0.53696	0.54277	0.53513					
	0.53647						AVRG		0.53088		2.12534
$ 59 Toluene-d8 (S)	0.97851	0.98044	0.99405	1.01980	1.01009	1.01223					
	1.01901						AVRG		1.00202		1.75531
$ 85 1,4-dichlorobenzene-d4 (S)	0.56501	0.58672	0.59177	0.56605	0.64037	0.65840					
	0.68049						AVRG		0.61269		7.60119

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Average %RSD Results.
Calculated Average %RSD = 10.15340
Maximun Average %RSD = 0.000e+000
* Failed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06816.d
Report Date: 13-Mar-2017 10:43

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\030917.B\06816.d
Lab Smp Id: CAL2
Inj Date : 09-MAR-2017 19:29
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 16 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.075	2.075	(0.489)	1170	0.20000	0.177(Q)
2	1,1-Difluoroethane	65	2.123	2.120	(0.500)	3527	0.20000	0.197(Q)
3	Chlorodifluoromethane	67	2.136	2.136	(0.503)	1636	0.20000	0.185(Q)
4	Propylene	41	2.139	2.136	(0.504)	11437	0.20000	0.179
5	Dichlorodifluoromethane	85	2.159	2.155	(0.509)	17056	0.20000	0.211
6	Dichlorotetrafluoroethane	85	2.223	2.220	(0.524)	16175	0.20000	0.198
7	Chloromethane	50	2.229	2.223	(0.525)	7603	0.20000	0.201
8	Vinyl chloride	62	2.284	2.281	(0.538)	5243	0.20000	0.178
9	1,3-Butadiene	54	2.306	2.306	(0.543)	3916	0.20000	0.192(Q)
10	Bromomethane	94	2.412	2.412	(0.568)	6104	0.20000	0.192
11	Chloroethane	64	2.447	2.447	(0.577)	1932	0.20000	0.174
12	Ethanol	45	2.528	2.508	(0.596)	7746	1.00000	1.37
13	Vinyl Bromide	106	2.541	2.534	(0.599)	5588	0.20000	0.188
14	Isopentane	43	2.547	2.544	(0.600)	7650	0.20000	0.218
15	Freon 123	83	2.550	2.547	(0.601)	14293	0.20000	0.192
16	Trichlorofluoromethane	101	2.605	2.601	(0.614)	17822	0.20000	0.211
17	Acrolein	56	2.624	2.621	(0.618)	2559	0.50000	0.673(M)
18	Acetone	43	2.650	2.643	(0.624)	45094	1.00000	0.217
19	Isopropyl Alcohol	45	2.691	2.682	(0.634)	37519	1.00000	1.31
20	1,1-Dichloroethene	61	2.791	2.791	(0.658)	9260	0.20000	0.184
21	Acrylonitrile	53	2.817	2.829	(0.664)	9162	0.50000	0.510
24	Tert Butyl Alcohol (TBA)	59	2.836	2.836	(0.668)	22811	0.50000	0.586
22	Freon 113	101	2.823	2.820	(0.665)	13420	0.20000	0.203

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06816.d
Report Date: 13-Mar-2017 10:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.842	2.839	(0.670)	13446	0.20000	0.192(Q)
	25 Methylene chloride	49	2.871	2.865	(0.676)	38536	1.00000	0.696
	26 Allyl Chloride	76	2.874	2.877	(0.677)	3183	0.50000	0.400(Q)
	27 Carbon Disulfide	76	2.964	2.967	(0.698)	14244	0.20000	0.200(M)
	28 trans-1,2-dichloroethene	96	3.086	3.083	(0.727)	4298	0.20000	0.180(Q)
	29 Methyl Tert Butyl Ether	73	3.125	3.115	(0.736)	32065	0.50000	0.510
	30 Vinyl Acetate	43	3.192	3.185	(0.752)	7472	0.20000	0.344(H)
	31 1,1-Dichloroethane	63	3.189	3.185	(0.751)	10592	0.20000	0.195
$	32 Hexane-d14(S)	66	3.272	3.266	(0.771)	1953826	10.0000	10.0
	33 Methyl Ethyl Ketone	72	3.359	3.346	(0.791)	1906	0.20000	0.163(QH)
	34 n-Hexane	57	3.352	3.343	(0.790)	8454	0.20000	0.200(Q)
	35 Di-isopropyl Ether	45	3.378	3.368	(0.796)	19270	0.20000	0.188
	36 cis-1,2-Dichloroethene	96	3.462	3.452	(0.816)	4882	0.20000	0.180
	37 Ethyl Acetate	43	3.497	3.490	(0.824)	12105	0.20000	0.179(QM)
	38 Ethyl Tert-Butyl Ether	59	3.567	3.564	(0.840)	42367	0.50000	0.355
	39 Chloroform	83	3.555	3.548	(0.837)	13297	0.20000	0.194
	40 Tetrahydrofuran	42	3.725	3.718	(0.878)	6324	0.20000	0.186
	41 1,1,1-Trichloroethane	97	3.898	3.895	(0.918)	12804	0.20000	0.186
	42 1,2-Dichloroethane	62	3.911	3.904	(0.921)	9497	0.20000	0.190
	43 Benzene	78	4.103	4.097	(0.967)	16033	0.20000	0.198
	45 Carbon tetrachloride	117	4.113	4.113	(0.969)	11430	0.20000	0.177
	44 Cyclohexane	56	4.119	4.119	(0.971)	9032	0.20000	0.217(Q)
	46 Tert Amyl Methyl Ether	73	4.244	4.241	(1.000)	79317	0.20000	0.211
*	47 1,4-Difluorobenzene	114	4.244	4.238	(1.000)	3670737	10.0000	
	48 2,2,4-Trimethylpentane	57	4.370	4.366	(1.029)	74834	0.50000	0.113
	49 Heptane	43	4.488	4.479	(1.057)	13219	0.20000	0.210
	50 1,2-Dichloropropane	63	4.556	4.546	(1.073)	7303	0.20000	0.196
	51 Trichloroethene	130	4.569	4.565	(1.076)	8137	0.20000	0.184
	52 Methyl methacrylate	69	4.665	4.662	(1.099)	5250	0.20000	0.179
	53 Bromodichloromethane	83	4.658	4.655	(1.097)	13220	0.20000	0.173
	54 1,4-Dioxane	88	4.723	4.719	(1.113)	1509	0.20000	0.247(Q)
	55 Methylcyclohexane	98	4.954	4.947	(1.167)	3472	0.20000	0.203(Q)
	56 Methyl Isobutyl Ketone	43	5.101	5.101	(1.202)	39511	0.50000	0.377
	57 cis-1,3-Dichloropropene	75	5.130	5.130	(1.209)	8927	0.20000	0.177(Q)
	58 trans-1,3-Dichloropropene	75	5.512	5.502	(1.299)	6143	0.20000	0.201(H)
$	59 Toluene-d8 (S)	98	5.563	5.557	(1.311)	3598936	10.0000	9.78
	60 Toluene	91	5.634	5.627	(1.327)	21303	0.20000	0.196
	61 1,1,2-Trichloroethane	97	5.647	5.634	(1.330)	8302	0.20000	0.198
	62 Methyl Butyl Ketone	43	5.894	5.897	(0.838)	35356	0.50000	0.484
	63 n-Octane	43	6.051	6.048	(0.860)	15894	0.20000	0.209
	64 Dibromochloromethane	129	6.122	6.115	(0.870)	12877	0.20000	0.171
	65 1,2-Dibromoethane	107	6.340	6.340	(0.901)	11878	0.20000	0.182
	66 Tetrachloroethene	166	6.407	6.394	(0.911)	13123	0.20000	0.194
*	67 Chlorobenzene - d5	117	7.033	7.026	(1.000)	3061805	10.0000	
	68 Chlorobenzene	112	7.068	7.065	(1.005)	16335	0.20000	0.198(Q)
	69 Ethyl Benzene	91	7.319	7.312	(1.041)	29150	0.20000	0.217
	70 m&p-Xylene	91	7.460	7.453	(1.061)	52247	0.40000	0.367
	71 Bromoform	173	7.832	7.829	(1.114)	10241	0.20000	0.312
	72 n-Nonane	43	7.861	7.858	(1.118)	14521	0.20000	0.207
	73 Styrene	104	7.874	7.874	(1.120)	13299	0.20000	0.195(M)
	74 o-Xylene	91	7.928	7.925	(1.127)	25114	0.20000	0.227
	75 1,1,2,2-Tetrachloroethane	83	8.195	8.191	(1.165)	14505	0.20000	0.197
	76 Isopropylbenzene	105	8.503	8.496	(1.209)	30994	0.20000	0.226
	77 N-Propylbenzene	91	9.061	9.051	(1.288)	30437	0.20000	0.211

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06816.d
Report Date: 13-Mar-2017 10:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.225	9.228	(1.312)	27301	0.20000	0.231
79	1,3,5-Trimethylbenzene	105	9.318	9.318	(1.325)	29082	0.20000	0.229
80	n-Decane	57	9.719	9.719	(2.290)	13238	0.20000	0.222
81	Tert-Butyl Benzene	119	9.812	9.809	(1.395)	25131	0.20000	0.231
82	1,2,4-Trimethylbenzene	105	9.828	9.825	(1.397)	37905	0.20000	0.249
83	1,3-Dichlorobenzene	146	10.126	10.133	(1.440)	15586	0.20000	0.217(MH)
84	Sec- Butylbenzene	105	10.149	10.146	(1.443)	30934	0.20000	0.229
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.197	10.194	(1.450)	1796433	10.0000	9.58
86	Benzyl Chloride	91	10.213	10.219	(1.452)	16809	0.20000	0.225
87	1,4-Dichlorobenzene	146	10.232	10.235	(1.455)	15617	0.20000	0.209(Q)
88	p-Isopropyltoluene	119	10.370	10.370	(1.474)	27550	0.20000	0.229
89	1,2,3-Trimethylbenzene	105	10.409	10.415	(1.480)	20240	0.20000	0.215
90	1,2-Dichlorobenzene	146	10.704	10.704	(1.522)	14878	0.20000	0.224
91	N-Butylbenzene	91	10.977	10.970	(1.561)	21429	0.20000	0.217(M)
92	1,2-Dibromo-3-Chloropropane	157	11.525	11.541	(1.639)	3280	0.20000	0.216(M)
93	1,2,4-Trichlorobenzene	180	12.844	12.851	(1.826)	4724	0.20000	0.264(M)
94	Naphthalene	128	12.973	12.966	(1.844)	7846	0.20000	0.245(M)
95	Hexachlorobutadiene	225	13.220	13.223	(1.880)	6657	0.20000	0.250

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06816.d
Report Date: 13-Mar-2017 10:43

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06816.d
Lab Smp Id: CAL2
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3670737	-3.08
67 Chlorobenzene - d	3280875	1968525	4593225	3061805	-6.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.07
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06816.D

Date : 09-MAR-2017 19:29

Client ID:

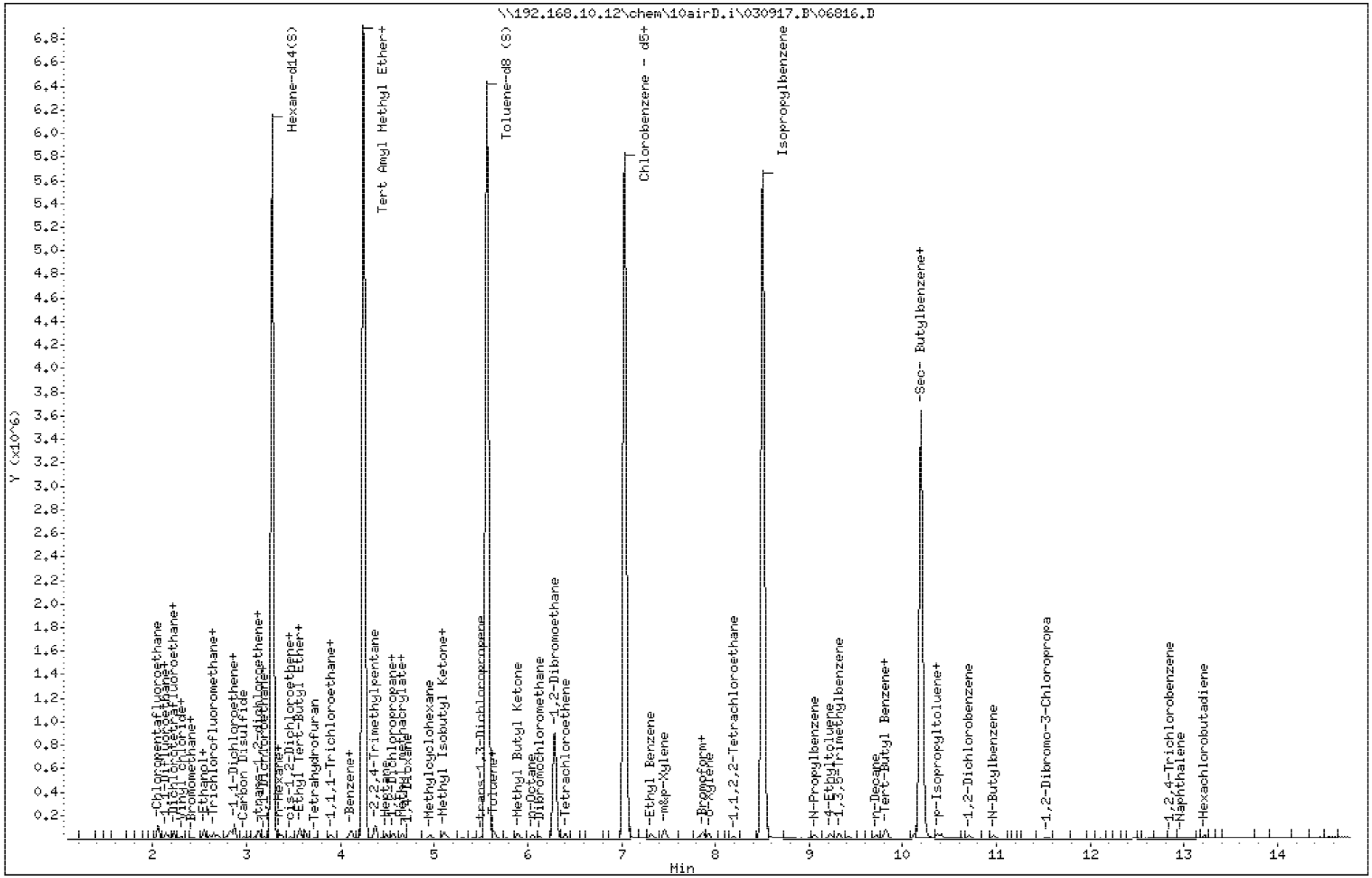
Instrument: 10airD.i

Sample Info:

Operator: EMC

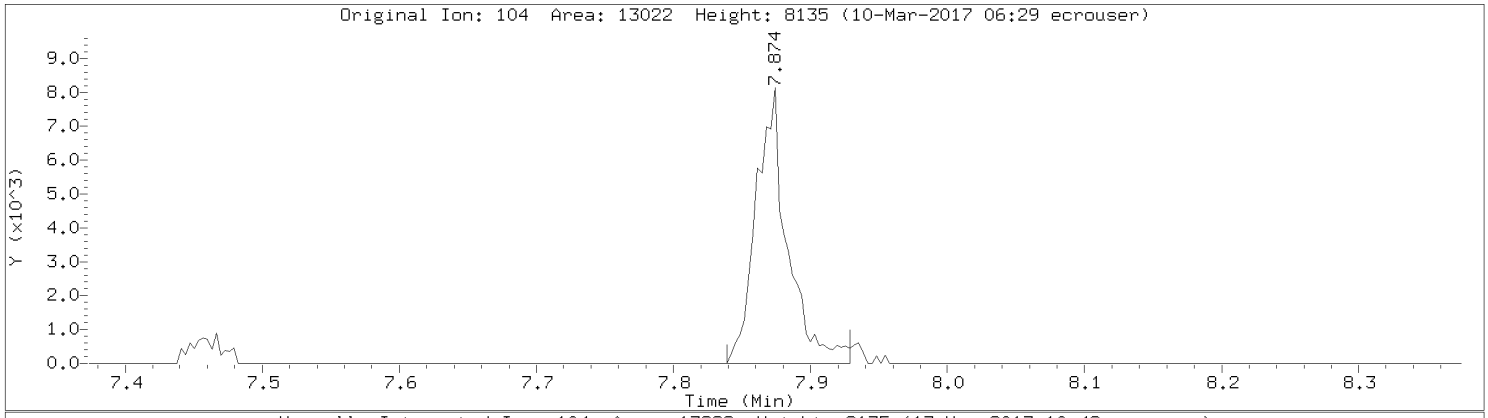
Column phase: J&W DB-5

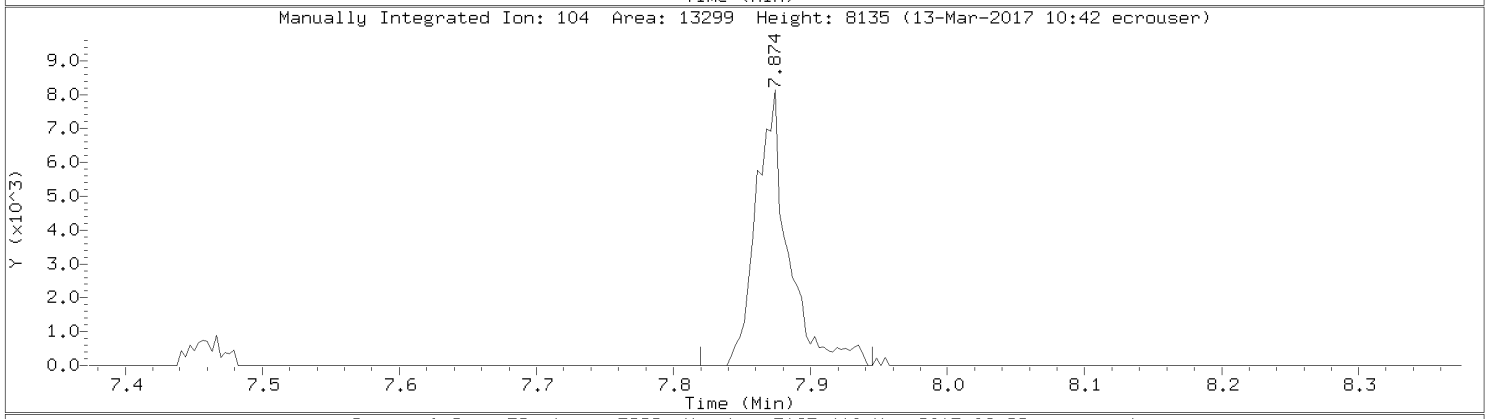
Column diameter: 0.32

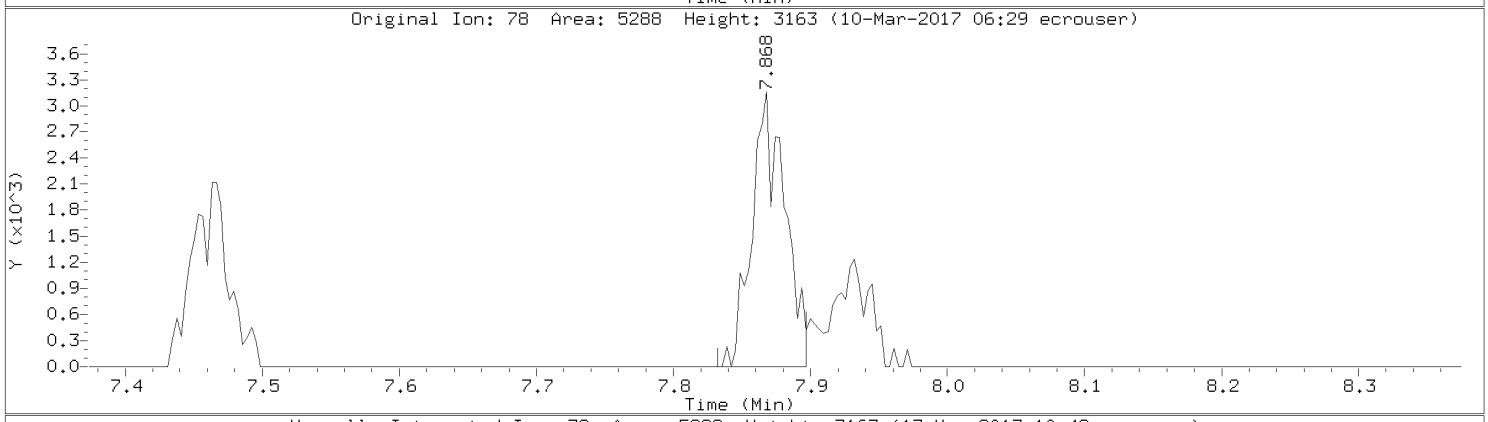


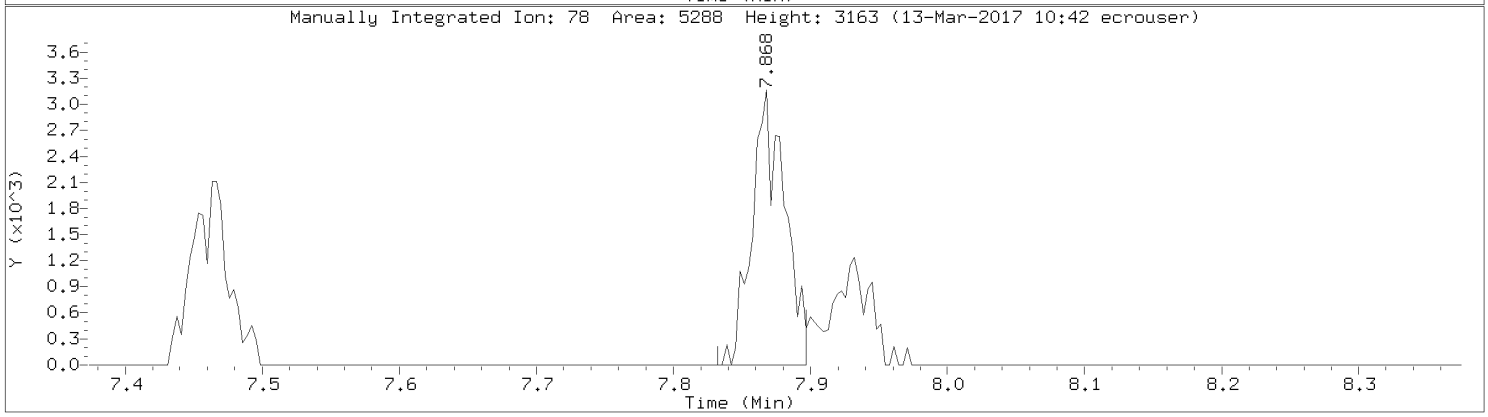
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Styrene
CAS Number: 100-42-5

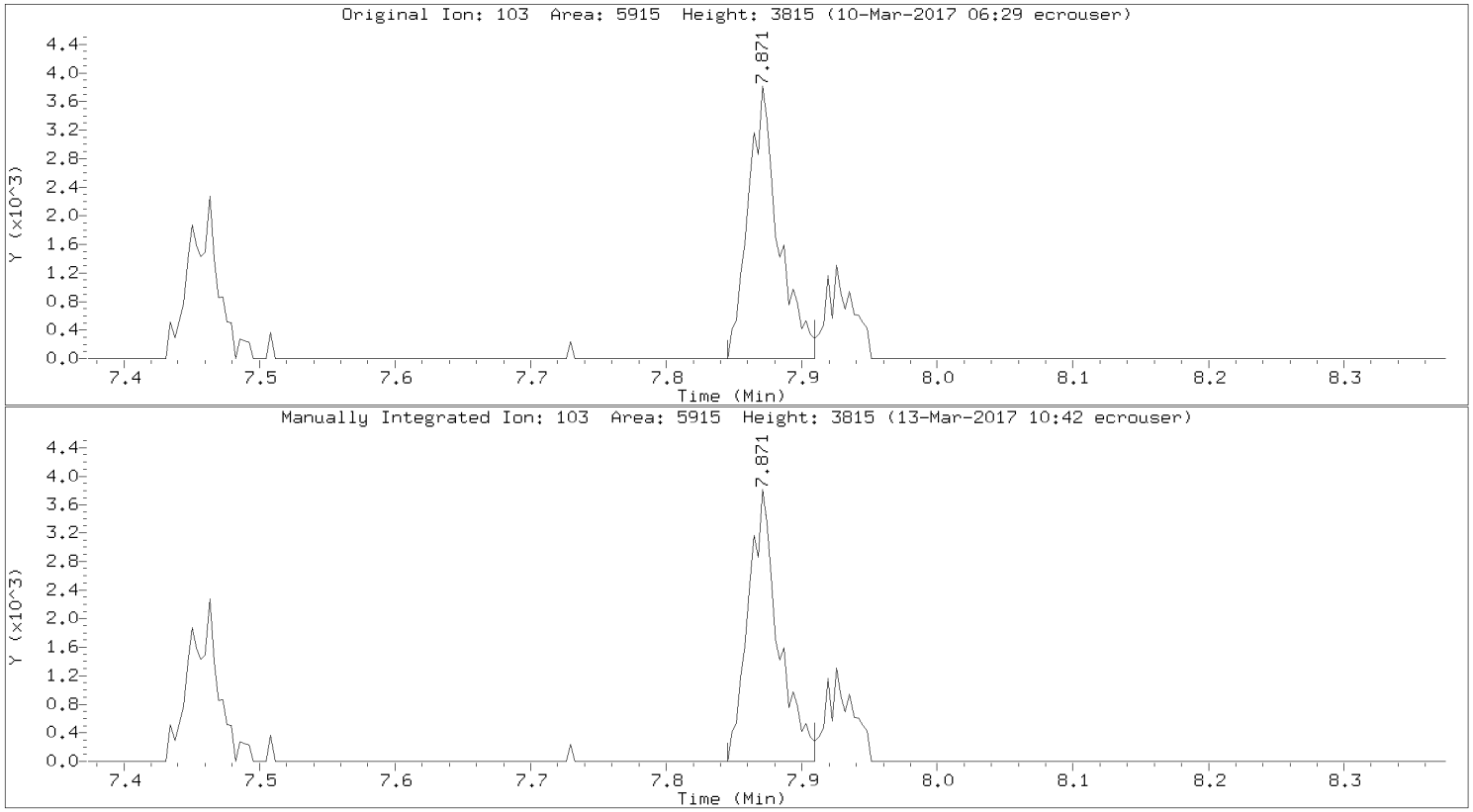






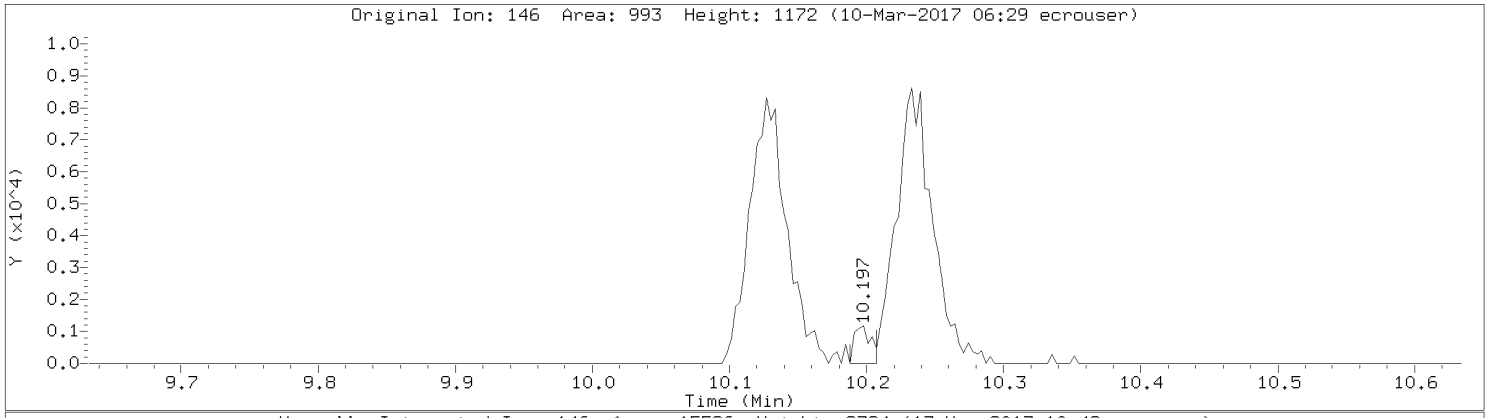


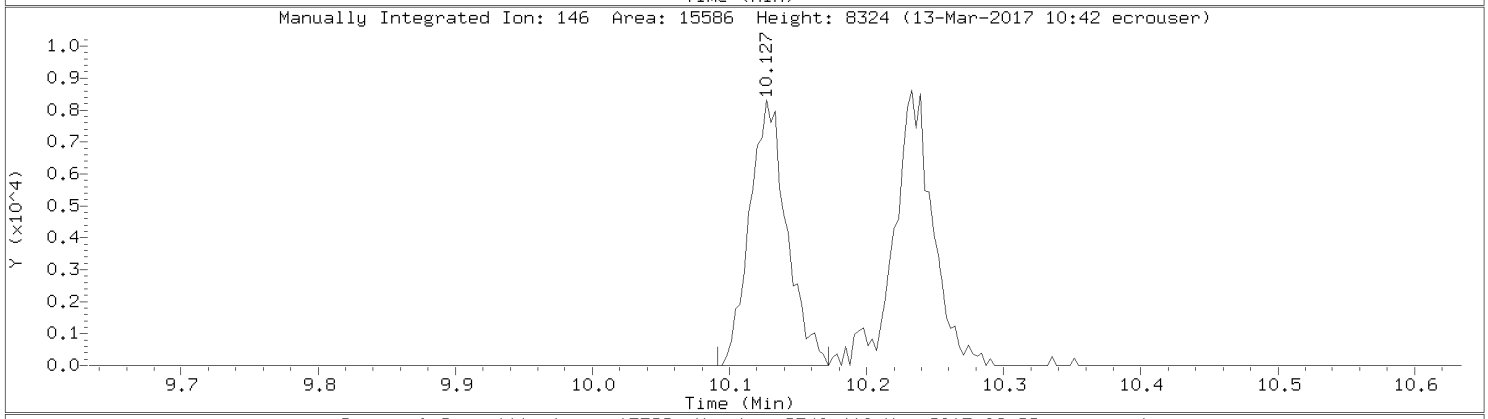
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

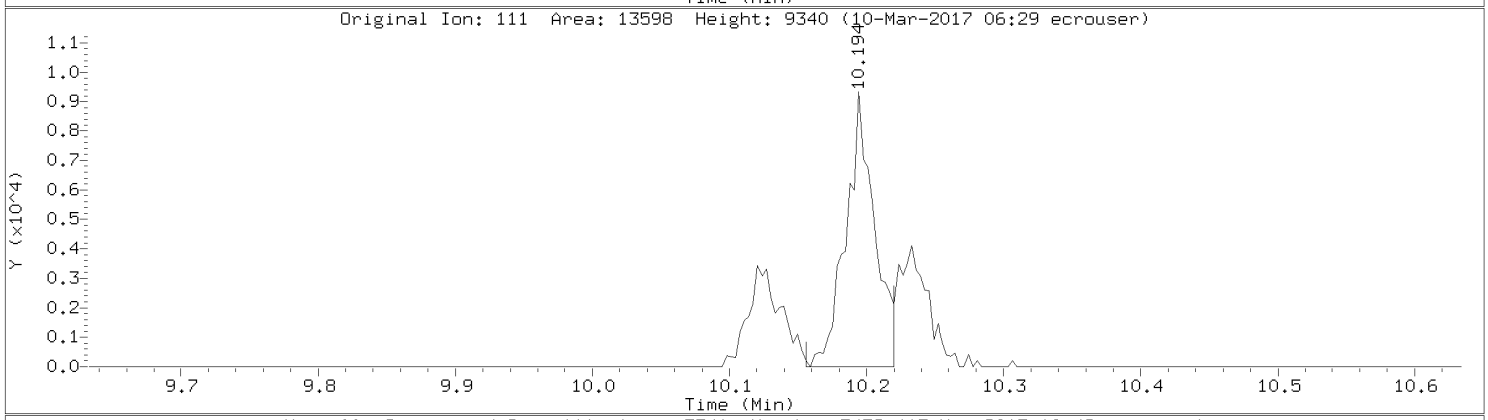


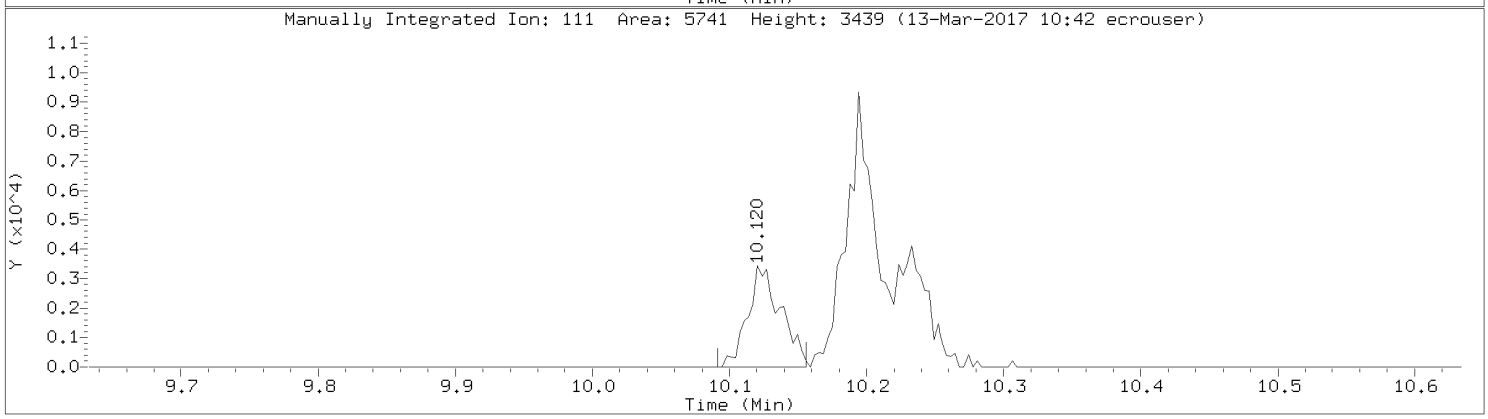
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

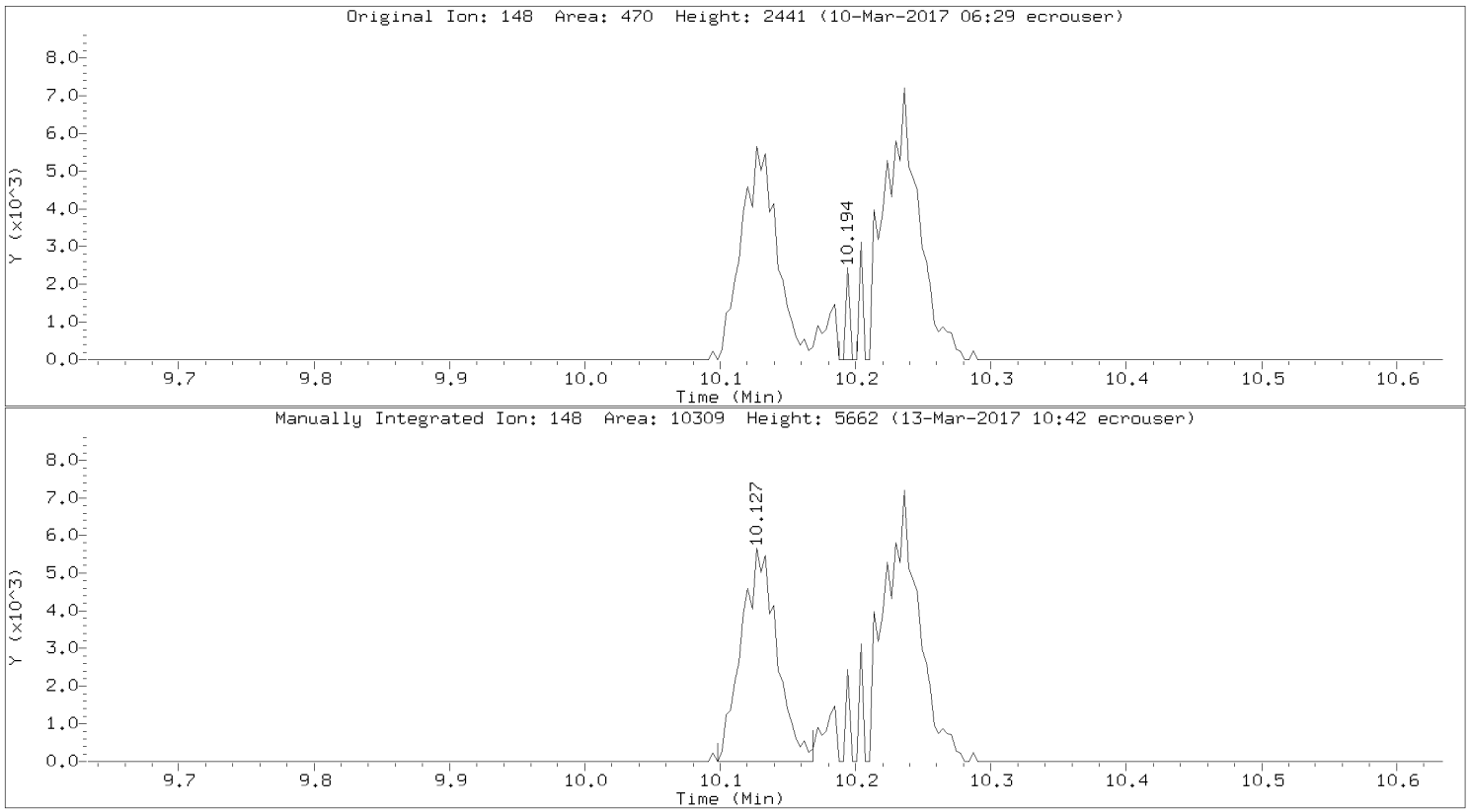






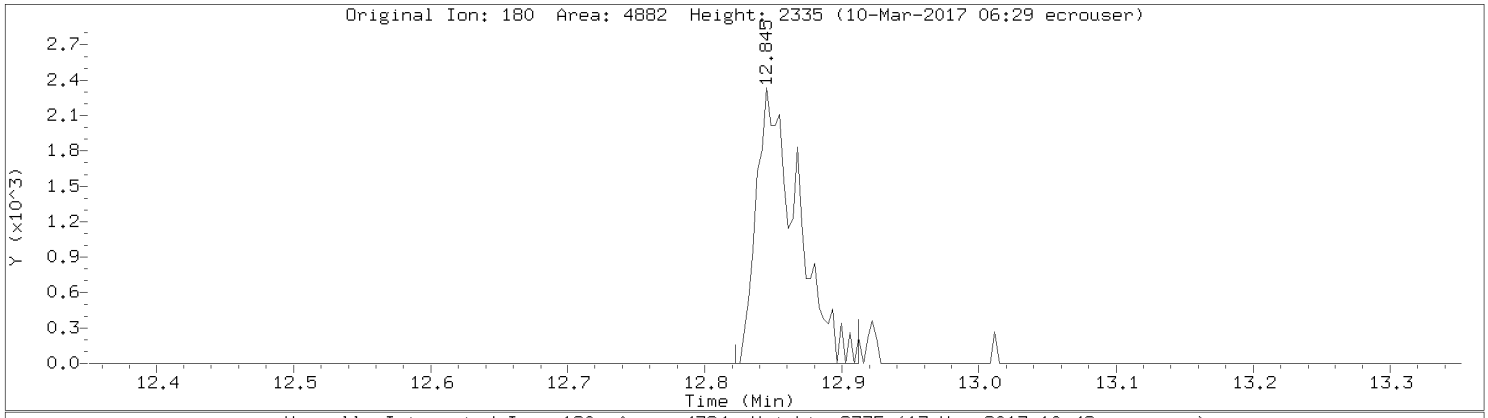


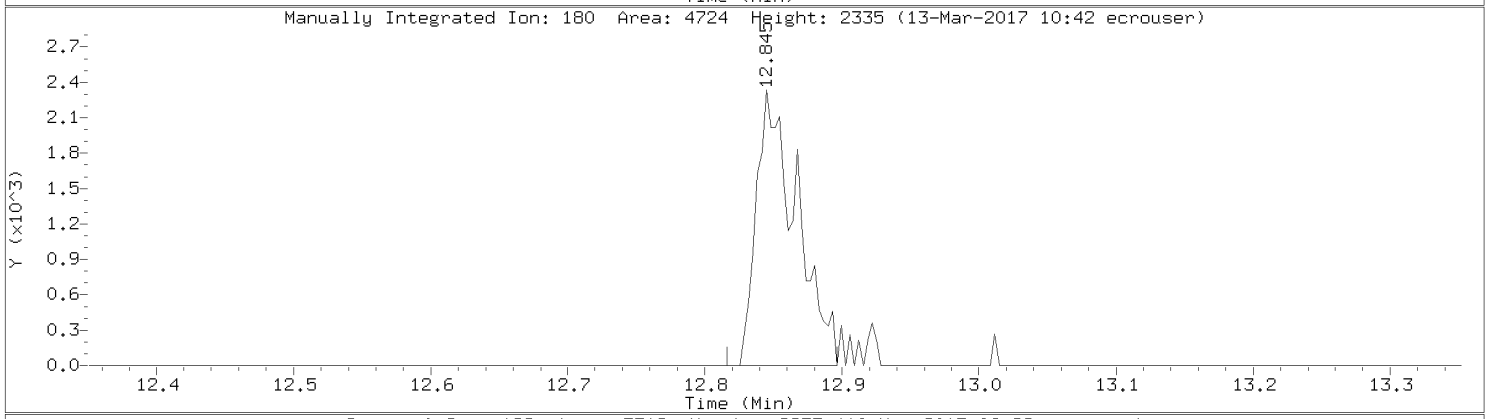
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

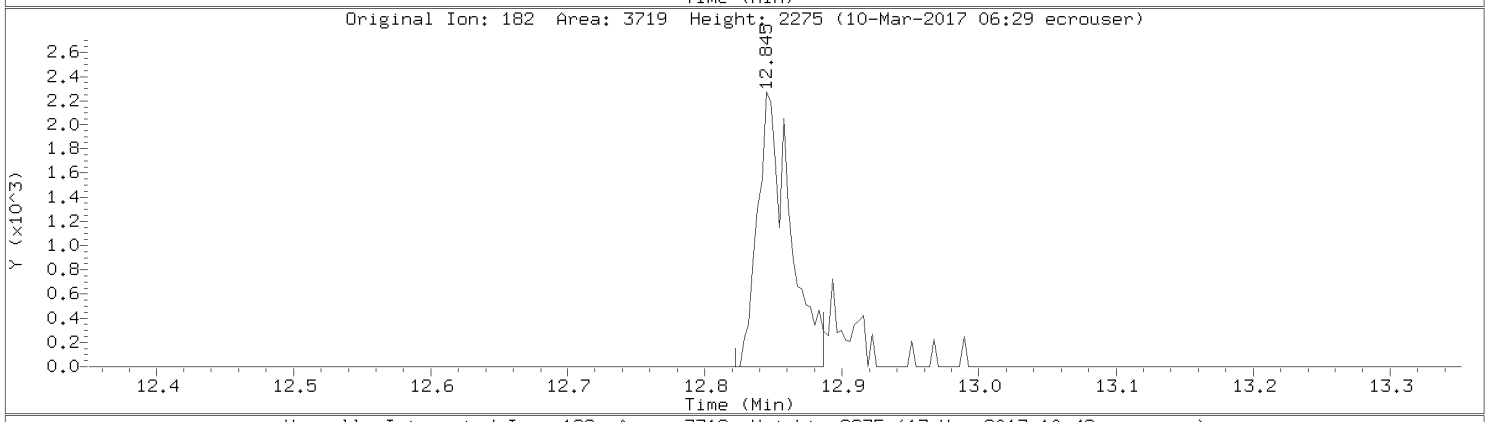


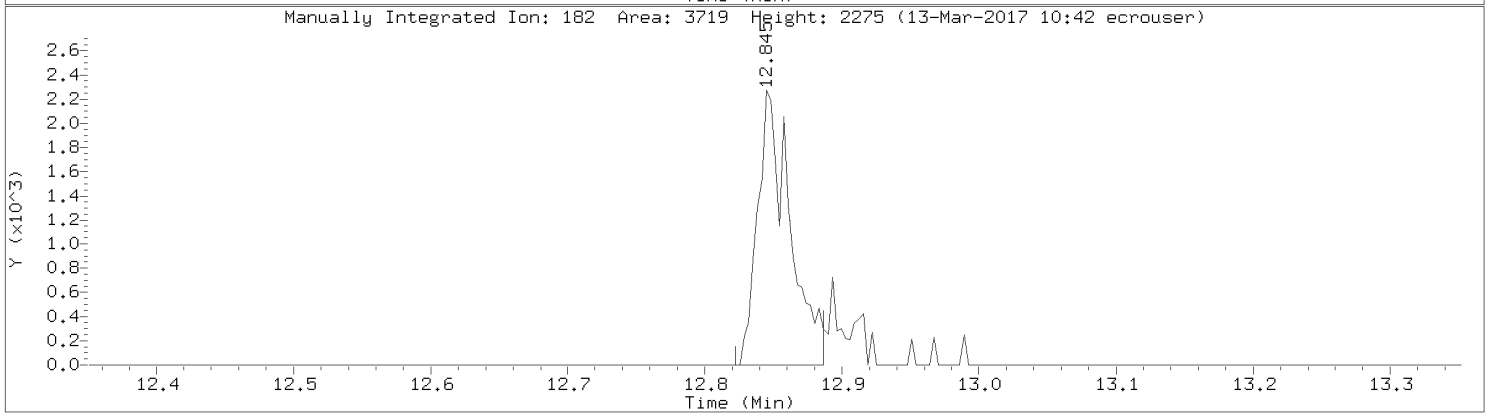
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

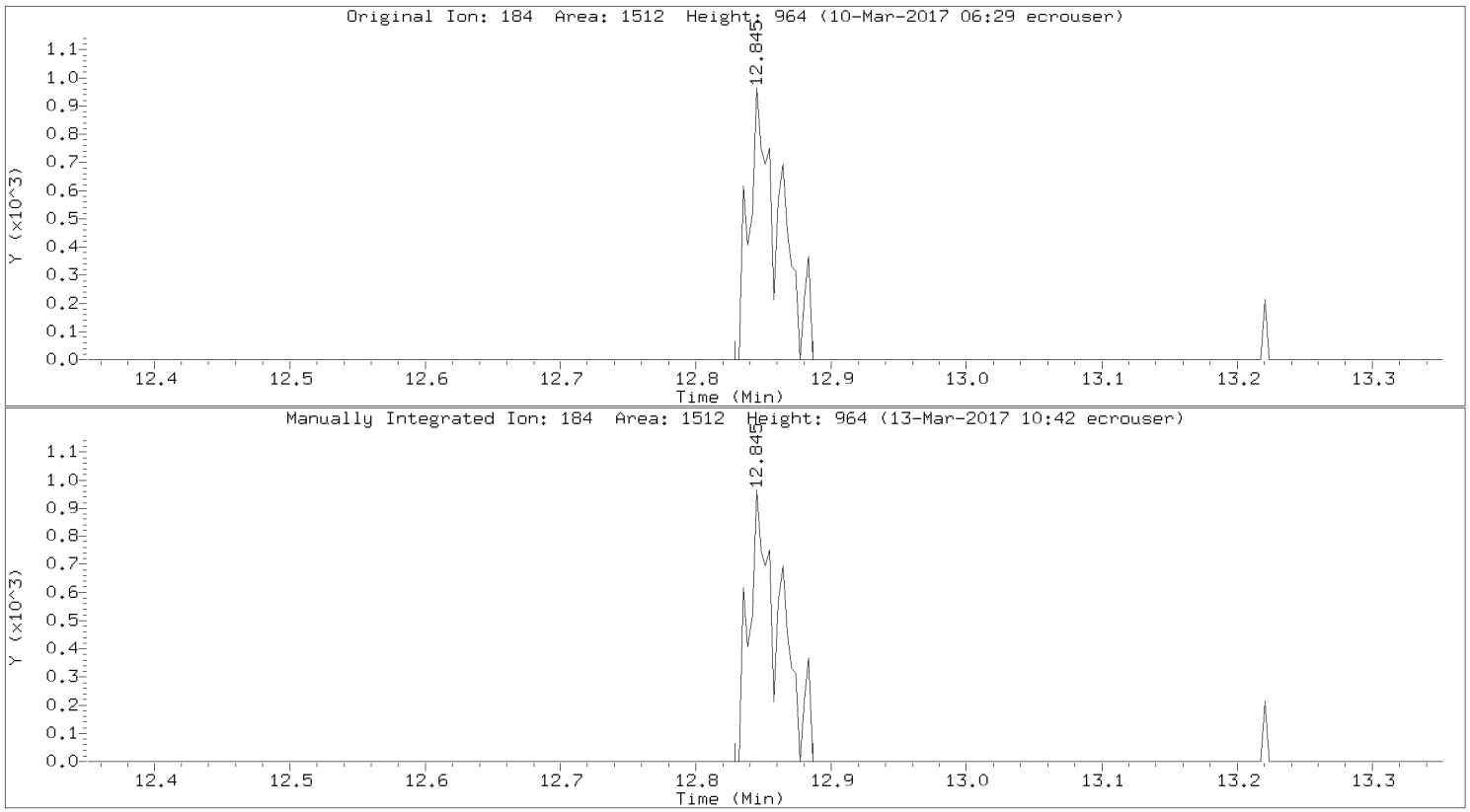






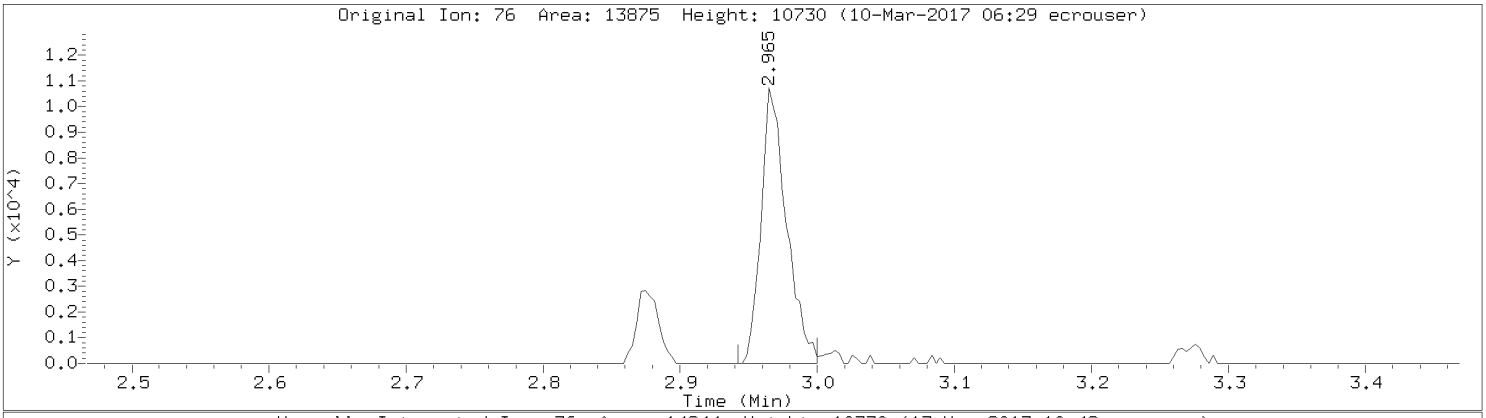


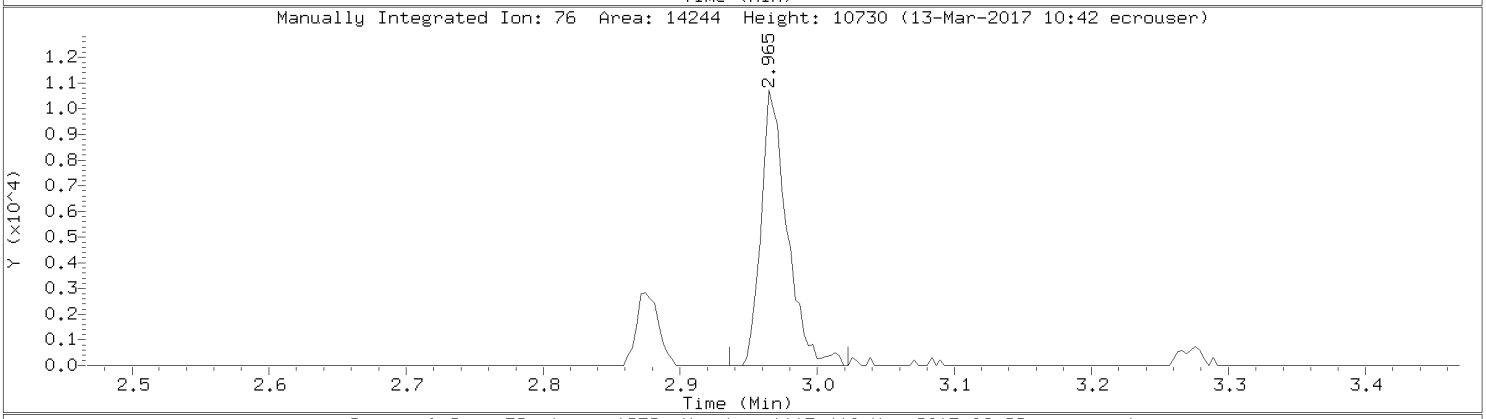
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

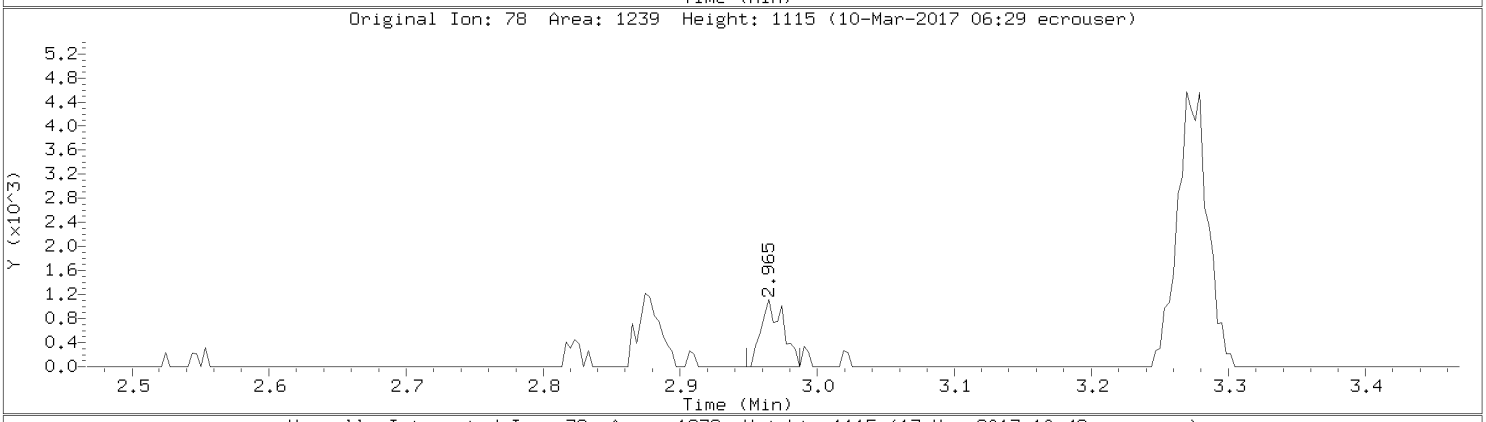


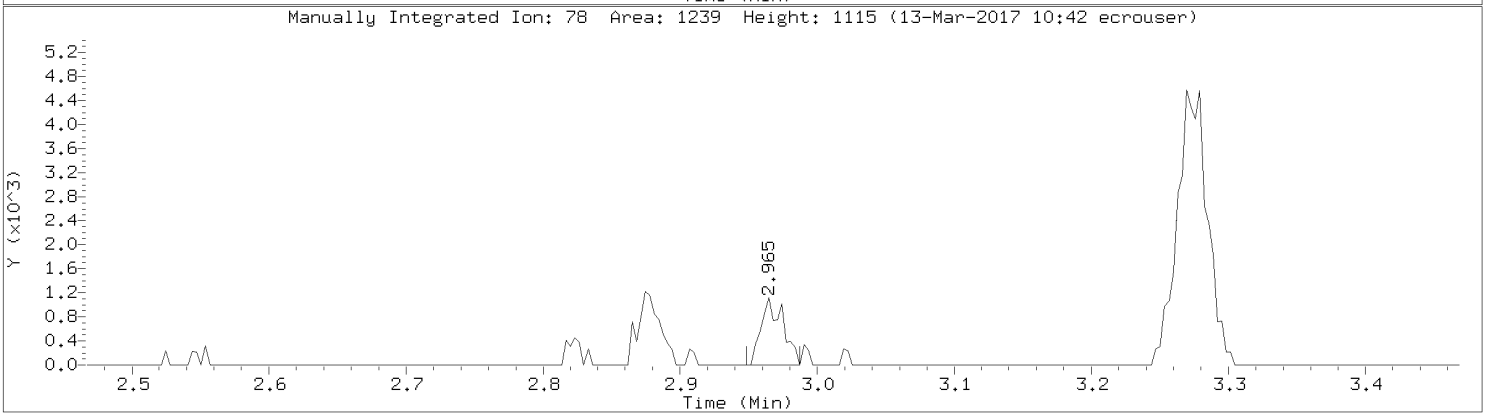
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Carbon Disulfide
CAS Number: 75-15-0



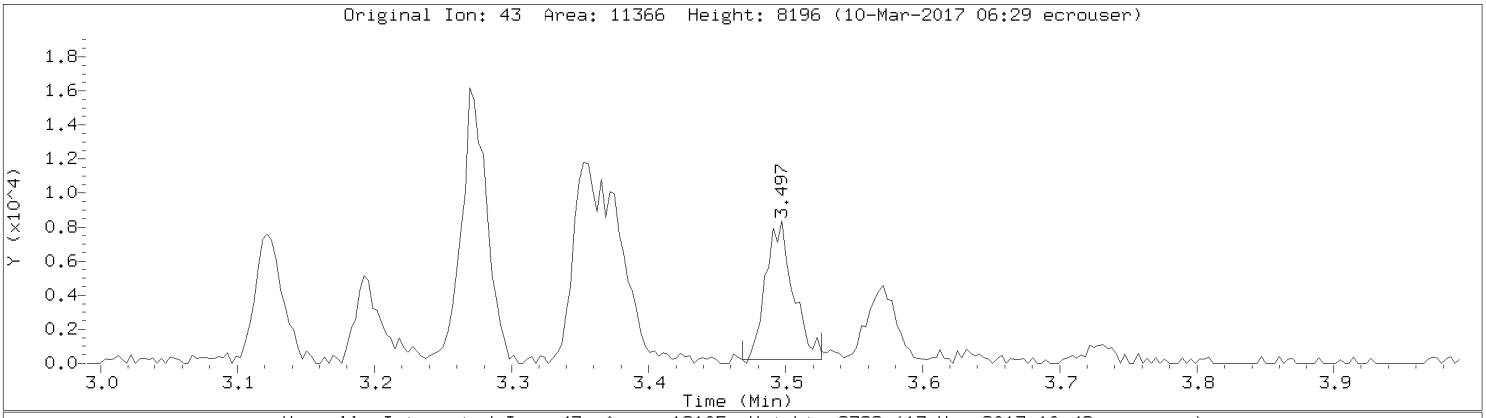


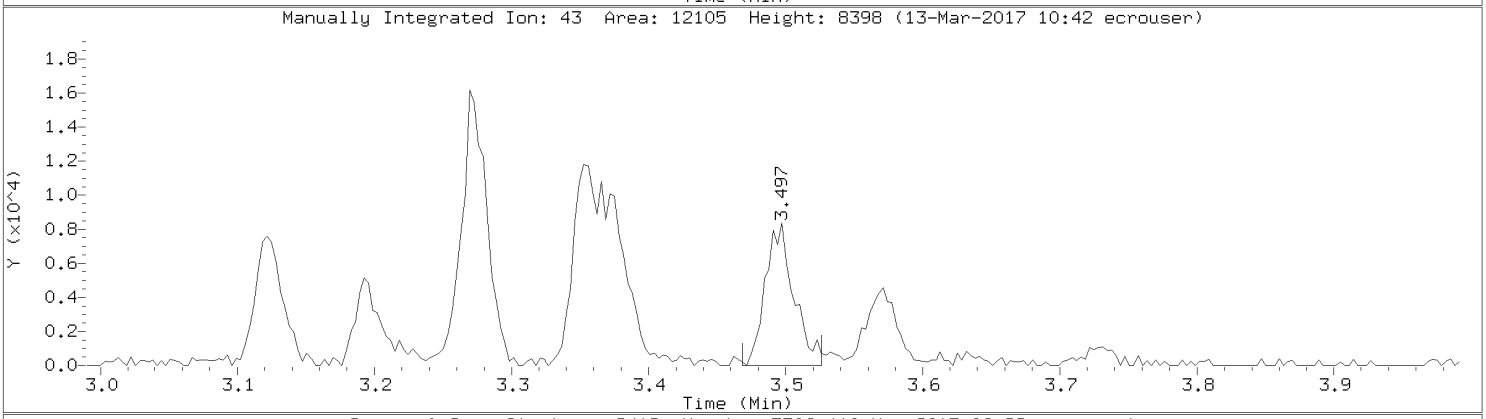


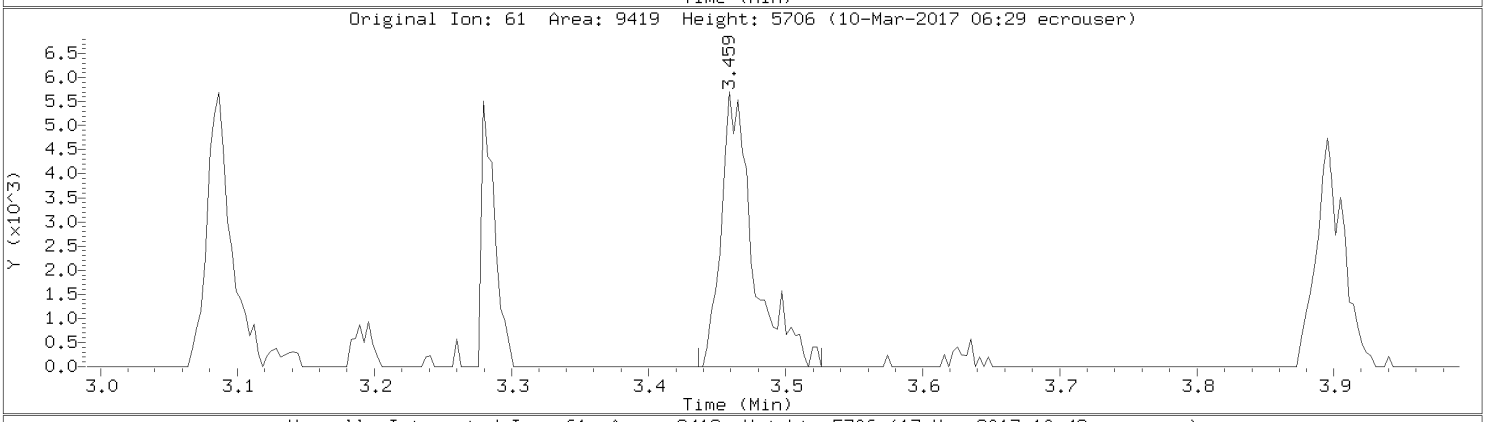


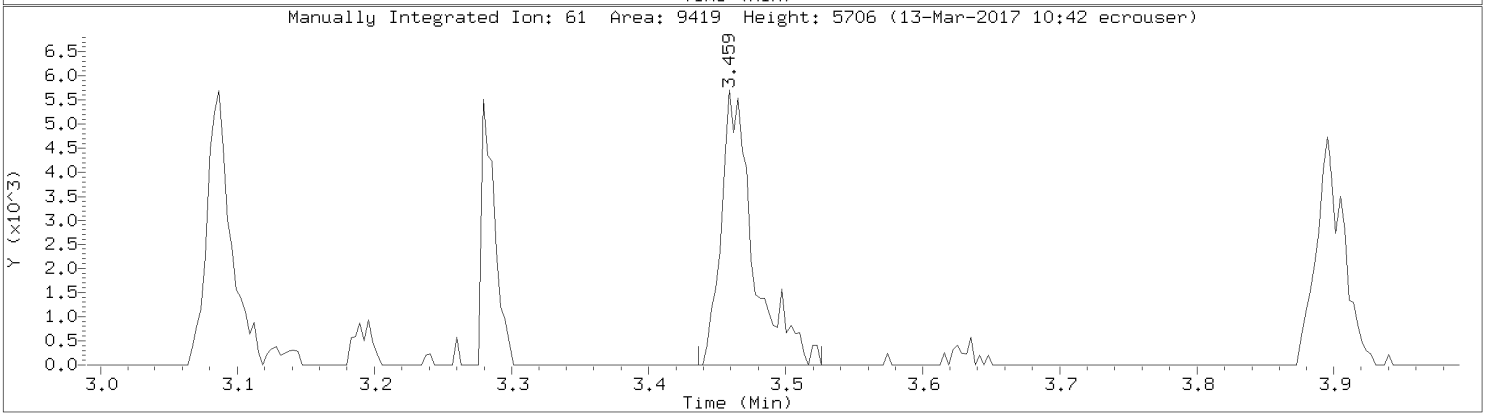
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Ethyl Acetate
CAS Number: 141-78-6

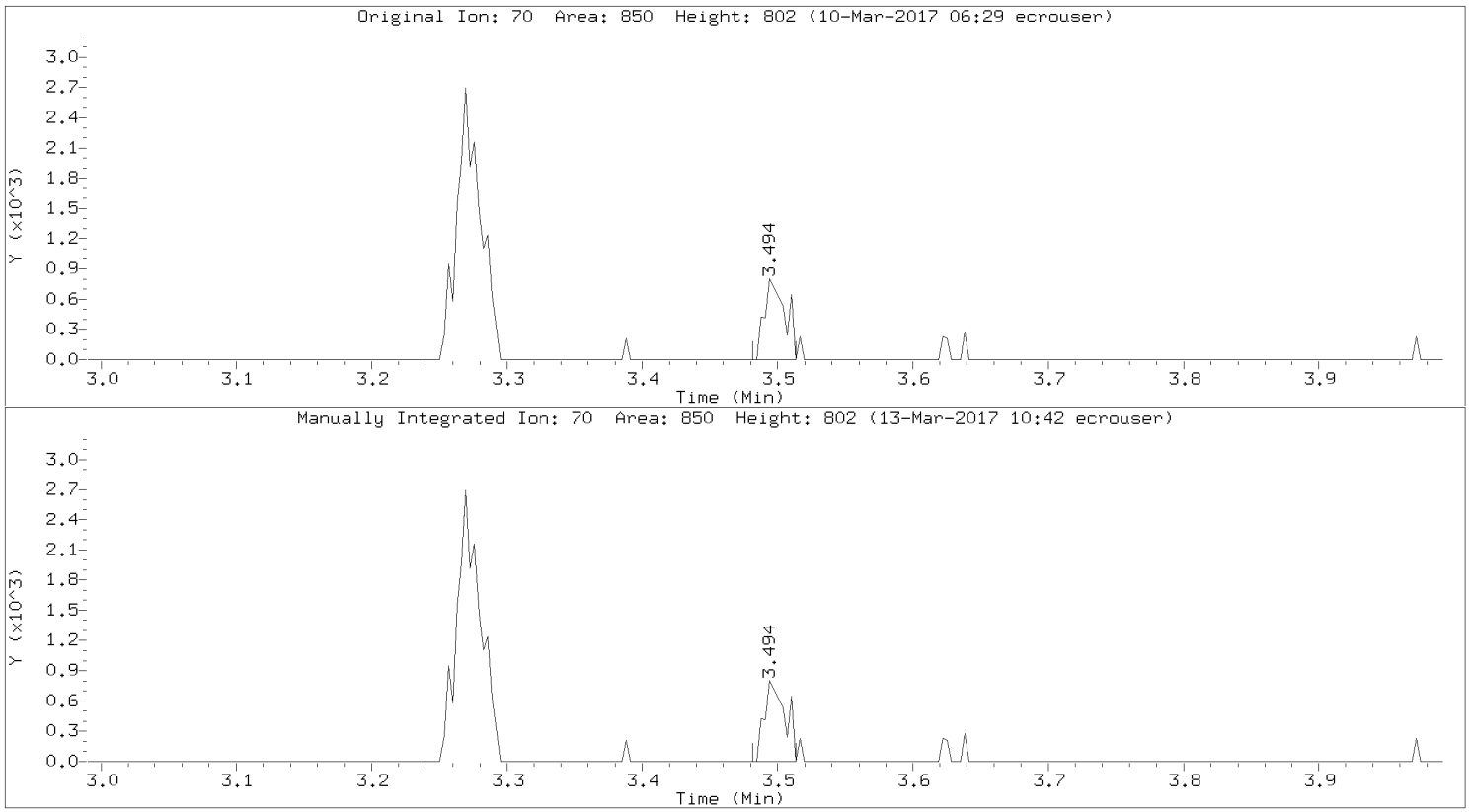






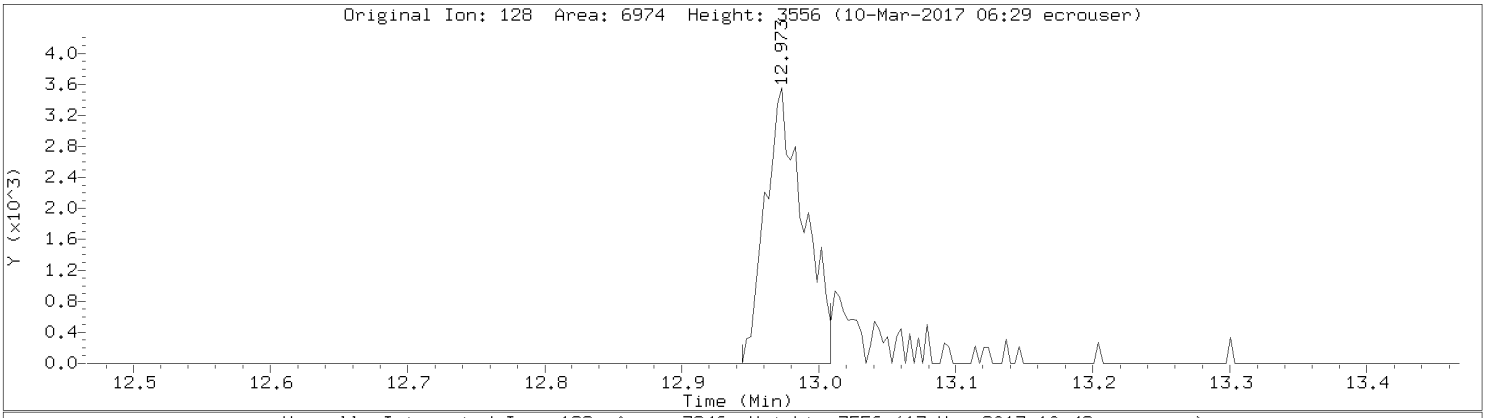


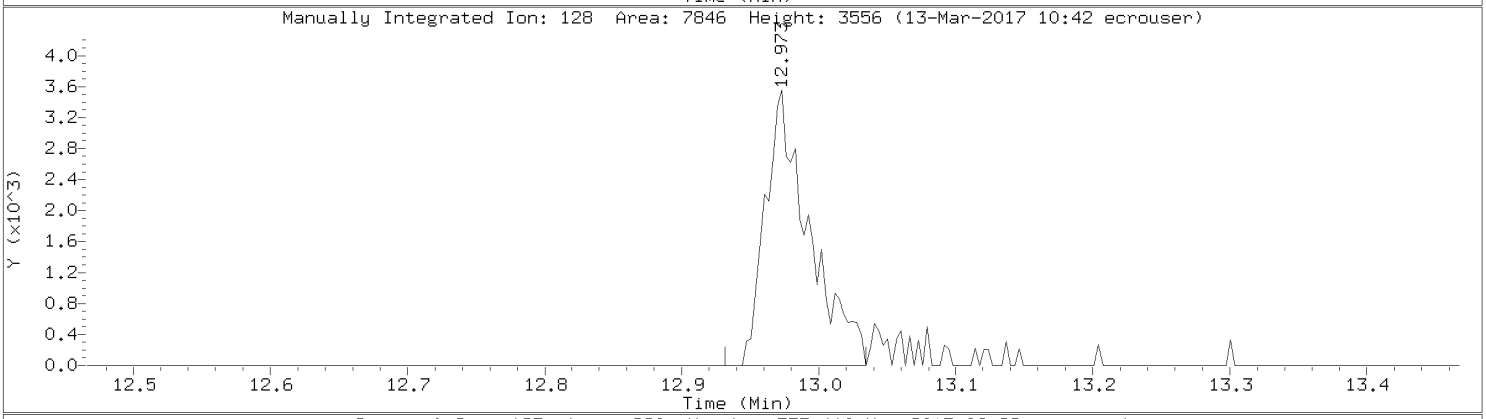
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

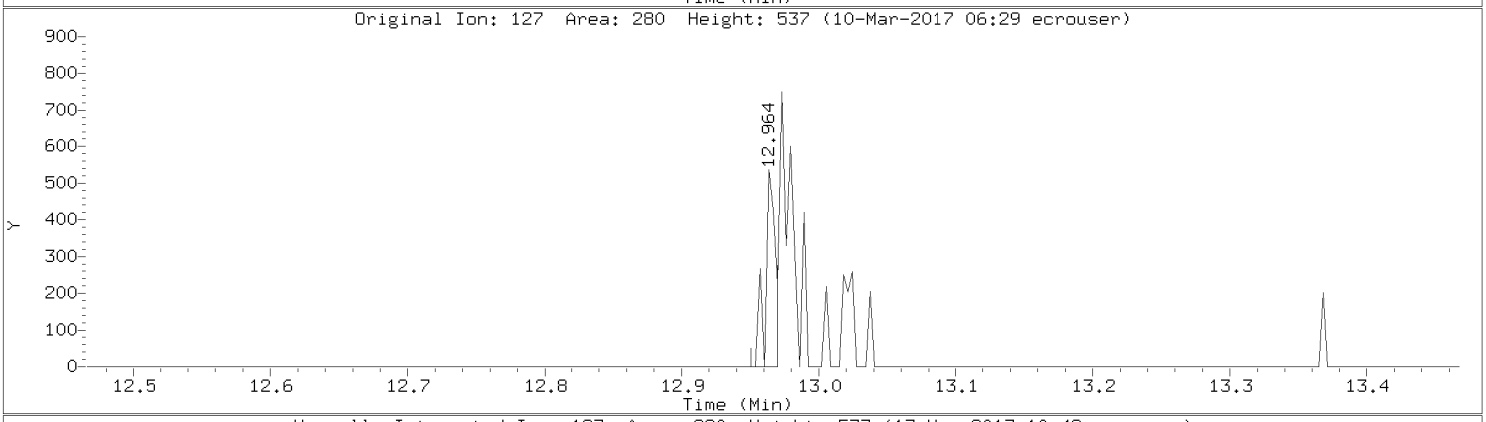


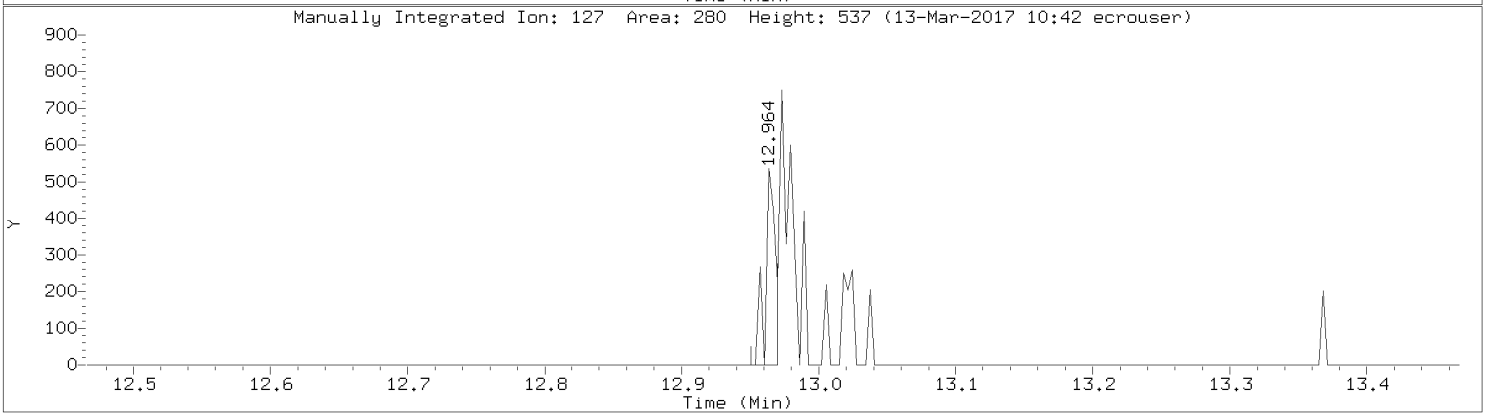
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Naphthalene
CAS Number: 91-20-3



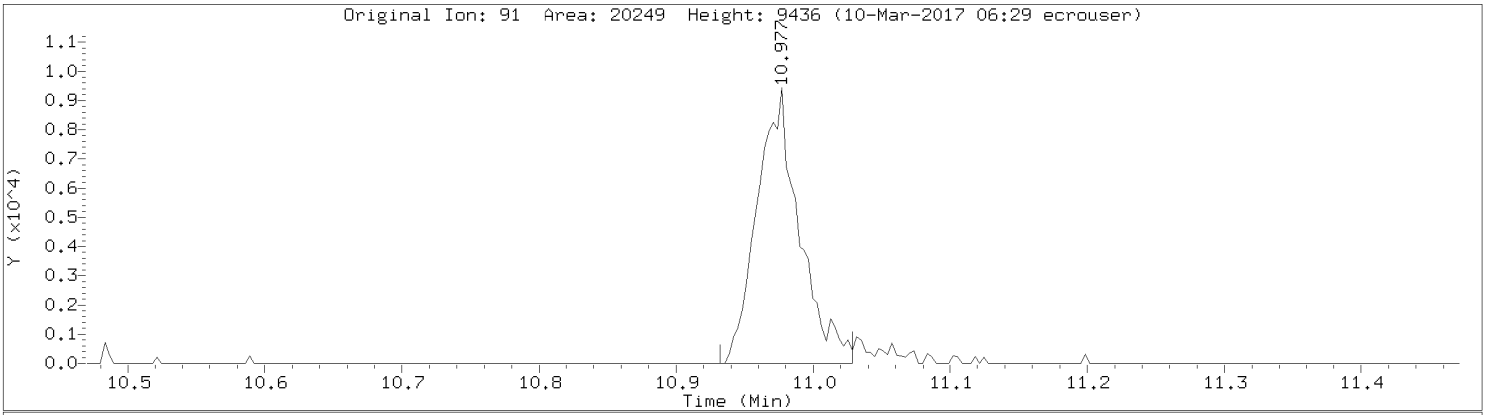


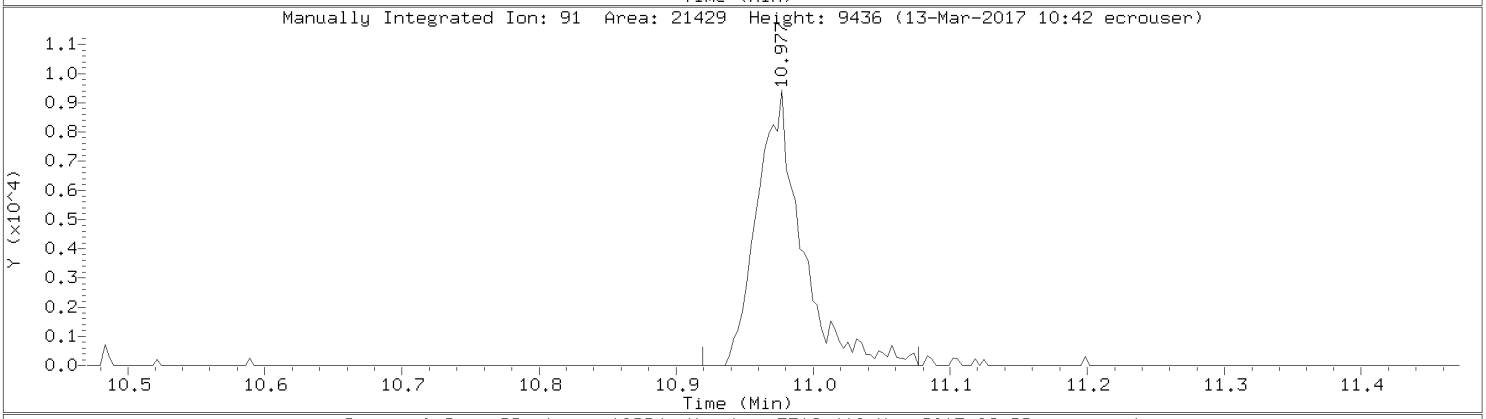


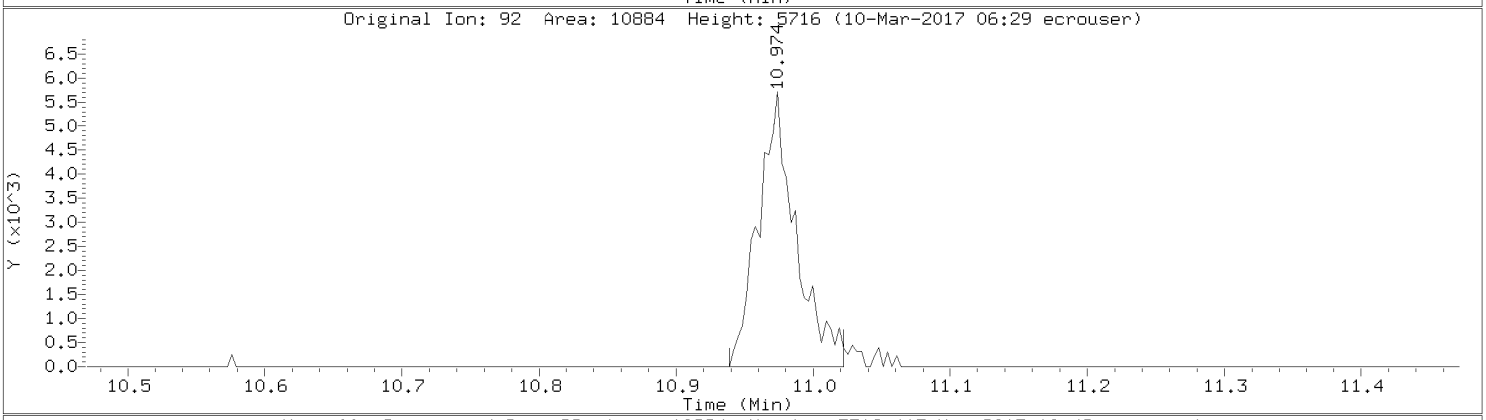


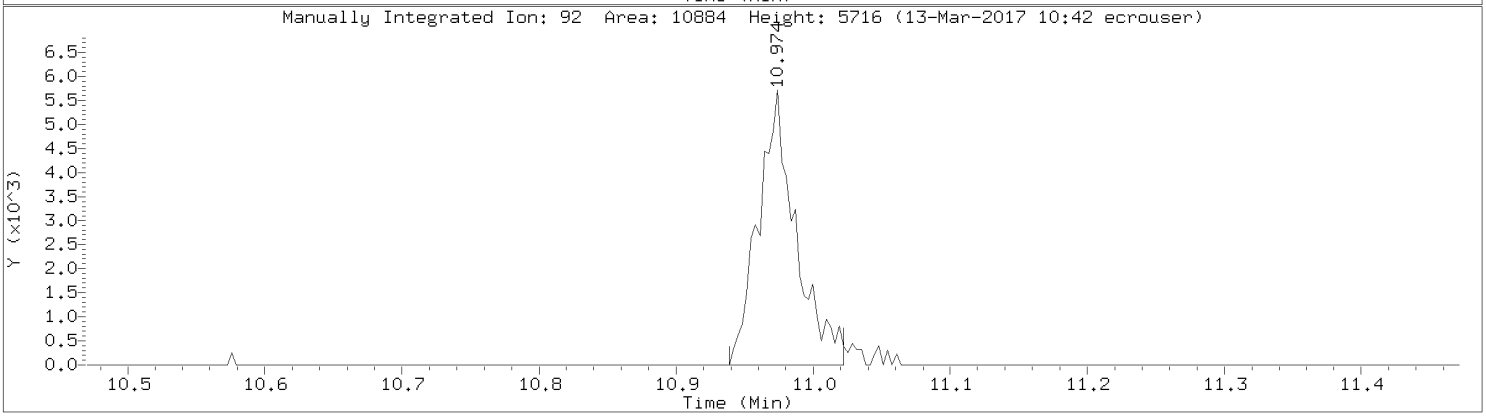
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: N-Butylbenzene
CAS Number: 104-51-8



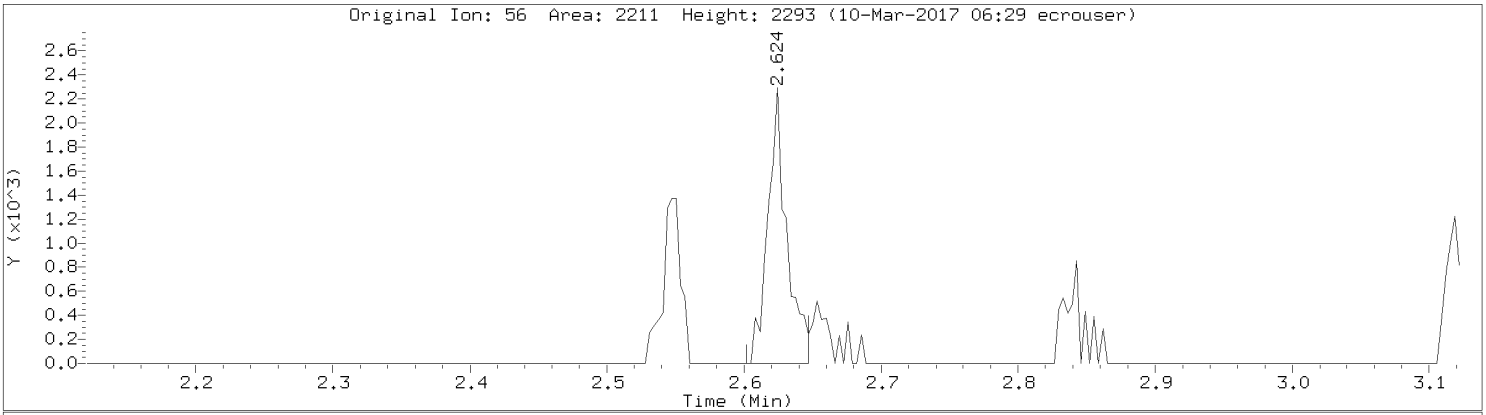


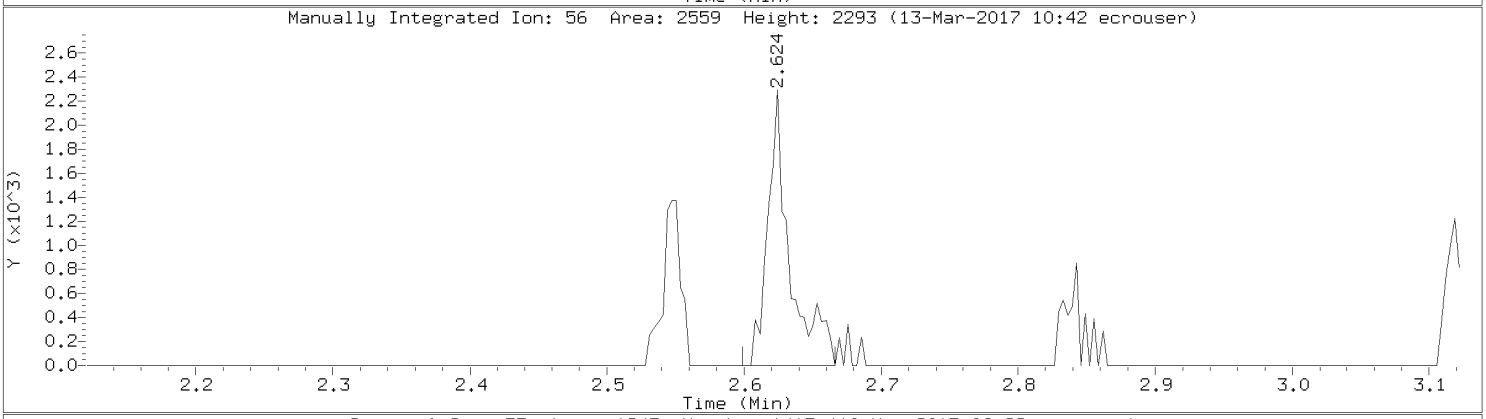


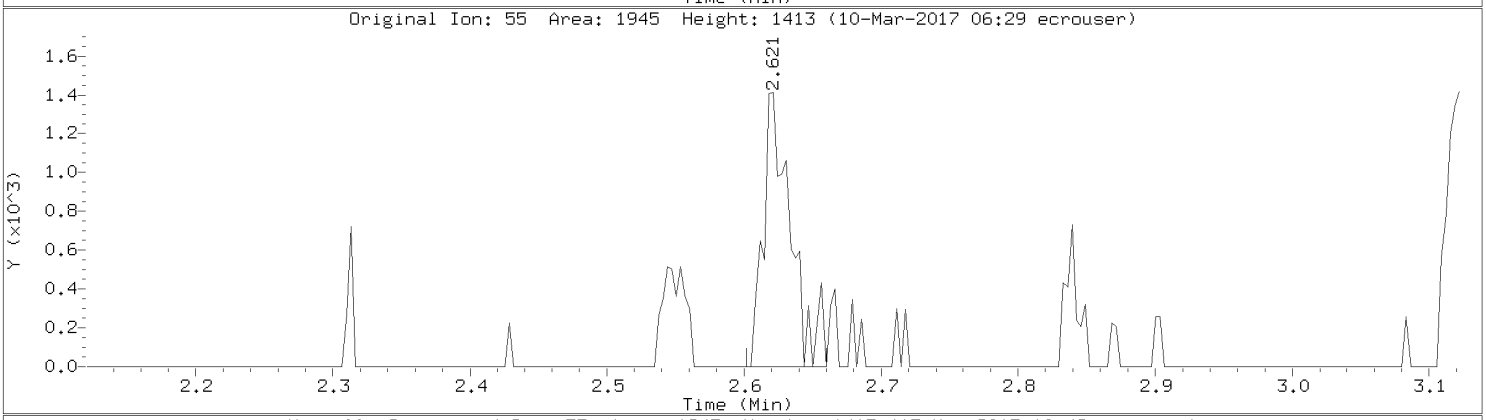


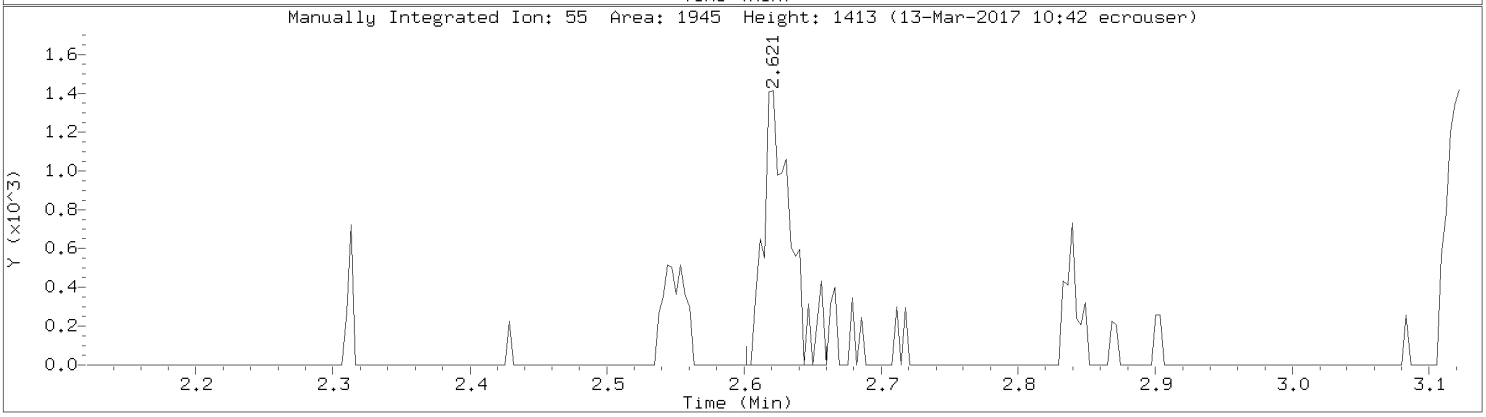
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Acrolein
CAS Number: 107-02-08



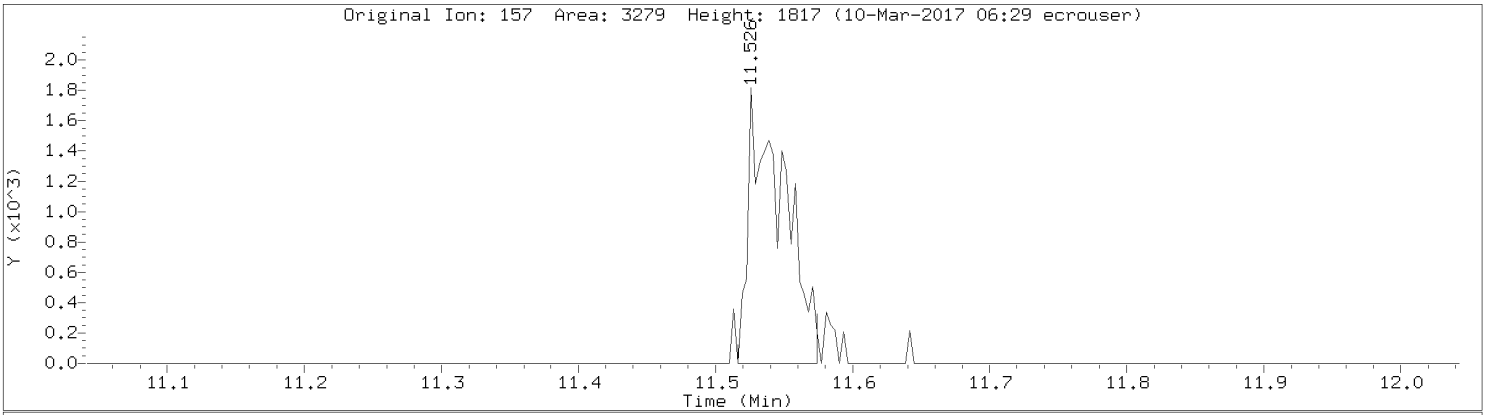


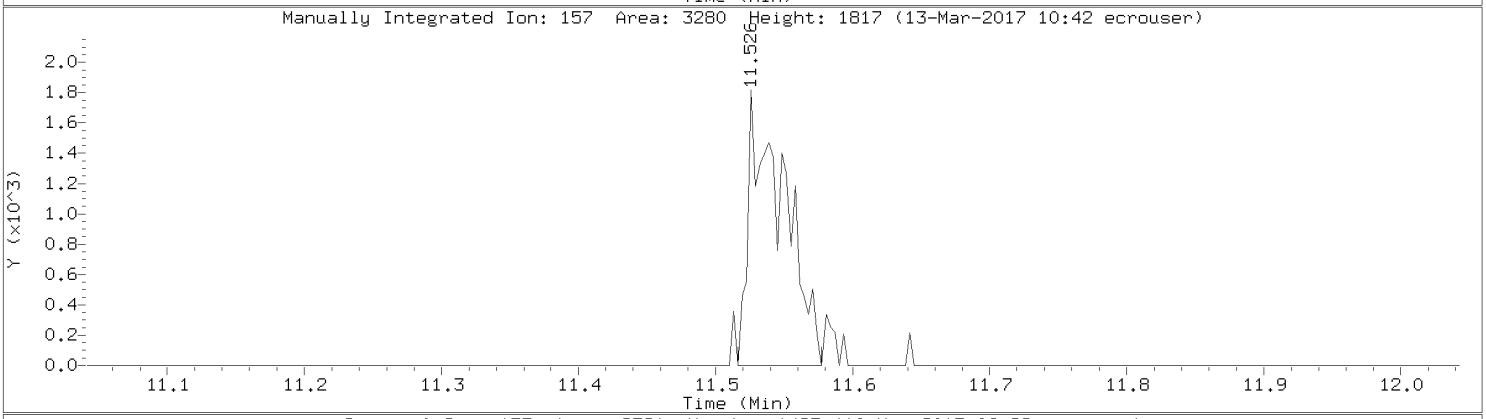


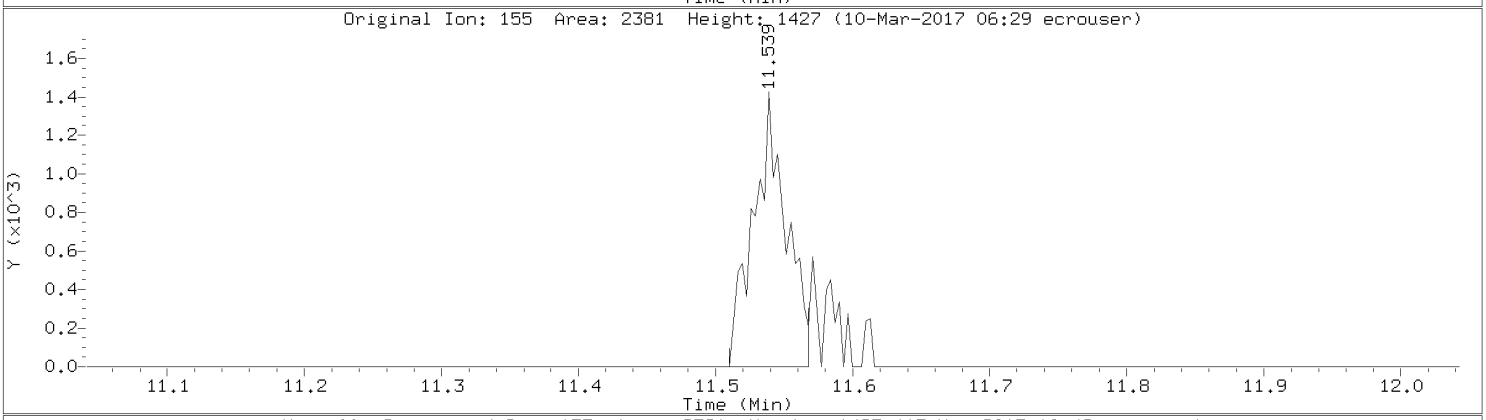


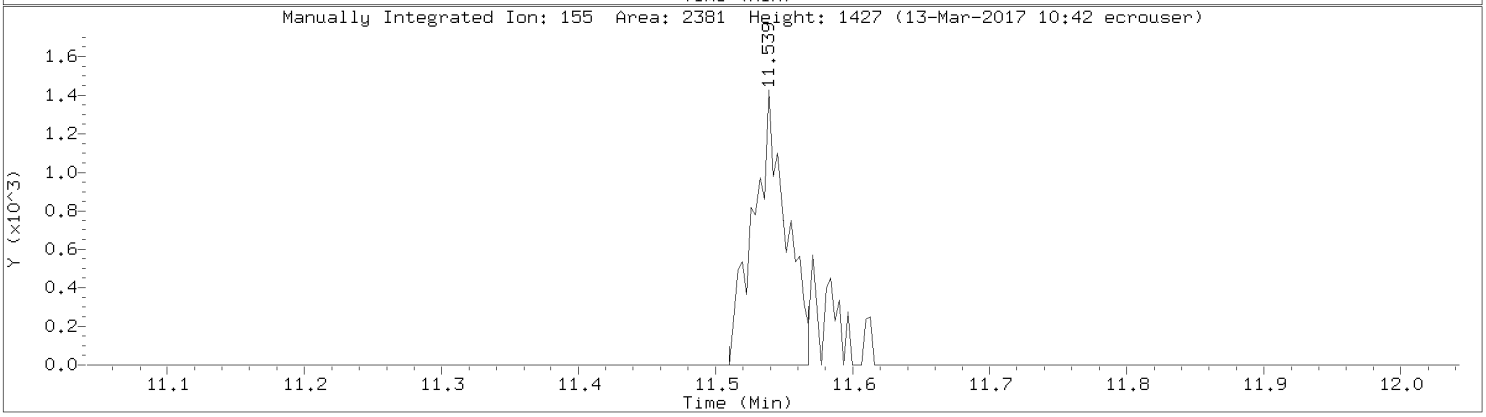
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

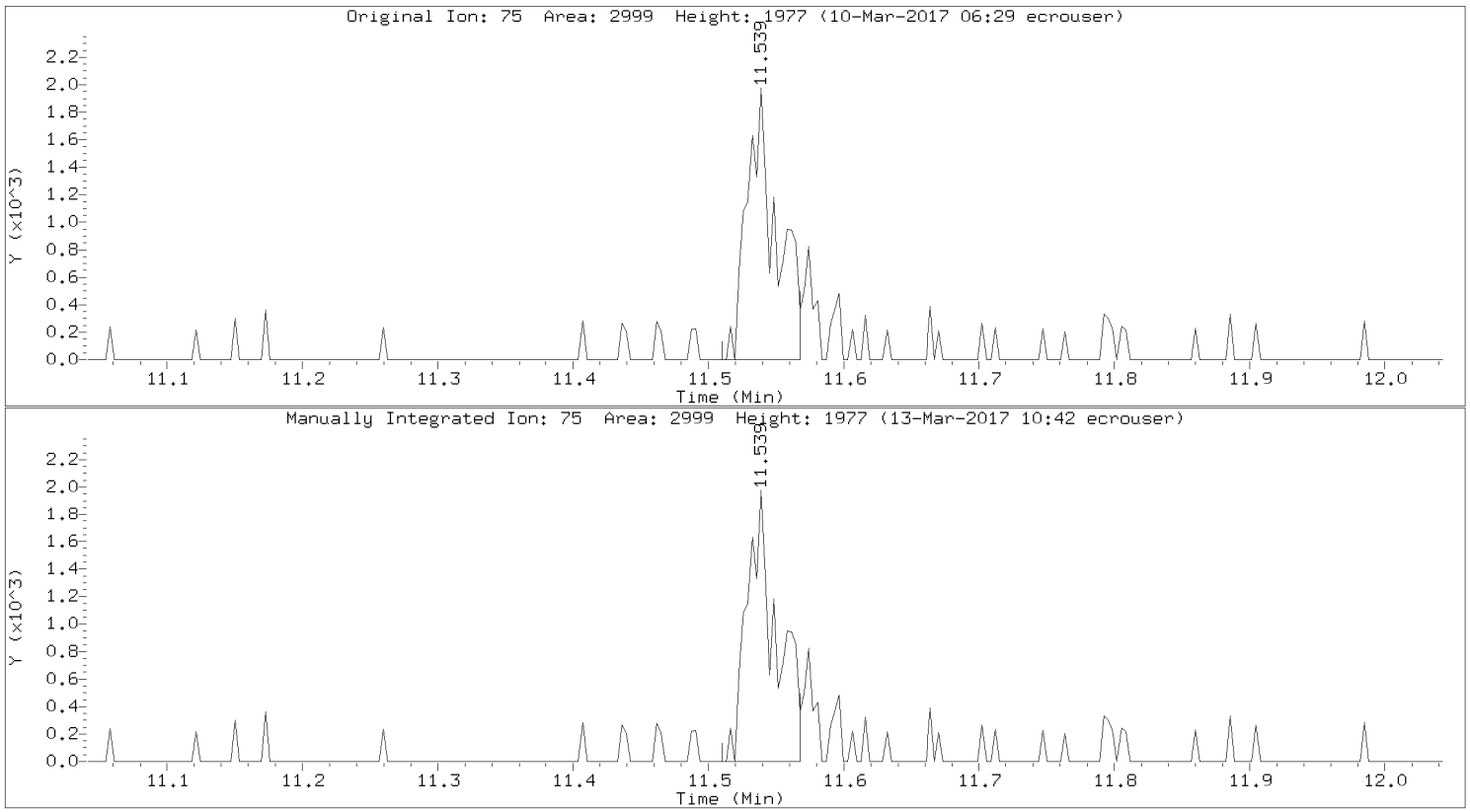








Data File: \\192.168.10.12\chem\10airD.i\030917.B/06816.d
Injection Date: 09-MAR-2017 19:29
Instrument: 10airD.i
Lab Sample ID: CAL2



Data File: \\192.168.10.12\chem\10airD.i\030917.B\06817.d
Report Date: 13-Mar-2017 10:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\030917.B\06817.d
Lab Smp Id: CAL3
Inj Date : 09-MAR-2017 20:31
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 17 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.069	2.075	(0.488)	4593	0.50000	0.752
2	1,1-Difluoroethane	65	2.114	2.120	(0.499)	8978	0.50000	0.521(Q)
3	Chlorodifluoromethane	67	2.123	2.136	(0.501)	4431	0.50000	0.518(Q)
4	Propylene	41	2.130	2.136	(0.503)	31010	0.50000	0.503
5	Dichlorodifluoromethane	85	2.149	2.155	(0.507)	44387	0.50000	0.570
6	Dichlorotetrafluoroethane	85	2.216	2.220	(0.523)	46148	0.50000	0.584
7	Chloromethane	50	2.216	2.223	(0.523)	18944	0.50000	0.519
8	Vinyl chloride	62	2.274	2.281	(0.537)	14405	0.50000	0.508
9	1,3-Butadiene	54	2.303	2.306	(0.543)	10364	0.50000	0.526(Q)
10	Bromomethane	94	2.406	2.412	(0.568)	16616	0.50000	0.543
11	Chloroethane	64	2.441	2.447	(0.576)	5327	0.50000	0.496
12	Ethanol	45	2.495	2.508	(0.589)	13983	2.50000	2.57
13	Vinyl Bromide	106	2.527	2.534	(0.596)	15191	0.50000	0.530
14	Isopentane	43	2.537	2.544	(0.599)	18483	0.50000	0.545
15	Freon 123	83	2.544	2.547	(0.600)	38296	0.50000	0.534
16	Trichlorofluoromethane	101	2.598	2.601	(0.613)	45700	0.50000	0.561
17	Acrolein	56	2.605	2.621	(0.615)	6915	1.25000	1.17
18	Acetone	43	2.630	2.643	(0.621)	127456	2.50000	2.19(M)
19	Isopropyl Alcohol	45	2.669	2.682	(0.630)	73322	2.50000	2.66(M)
20	1,1-Dichloroethene	61	2.784	2.791	(0.657)	26691	0.50000	0.550
21	Acrylonitrile	53	2.797	2.829	(0.660)	20538	1.25000	1.18(Q)
24	Tert Butyl Alcohol (TBA)	59	2.816	2.836	(0.665)	45433	1.25000	1.21
22	Freon 113	101	2.816	2.820	(0.665)	35101	0.50000	0.550

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06817.d
Report Date: 13-Mar-2017 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.823	2.839	(0.666)	34380	0.50000	0.510
	25 Methylene chloride	49	2.858	2.865	(0.674)	100107	2.50000	2.46
	26 Allyl Chloride	76	2.868	2.877	(0.677)	9005	1.25000	1.17(Q)
	27 Carbon Disulfide	76	2.957	2.967	(0.698)	35628	0.50000	0.518
	28 trans-1,2-dichloroethene	96	3.079	3.083	(0.727)	12545	0.50000	0.544(Q)
	29 Methyl Tert Butyl Ether	73	3.112	3.115	(0.734)	87612	1.25000	1.45
	30 Vinyl Acetate	43	3.179	3.185	(0.750)	19955	0.50000	0.491(MH)
	31 1,1-Dichloroethane	63	3.185	3.185	(0.752)	27063	0.50000	0.517
$	32 Hexane-d14(S)	66	3.262	3.266	(0.770)	1801852	10.0000	9.59
	33 Methyl Ethyl Ketone	72	3.336	3.346	(0.787)	6271	0.50000	0.557(QMH)
	34 n-Hexane	57	3.346	3.343	(0.790)	21379	0.50000	0.525
	35 Di-isopropyl Ether	45	3.362	3.368	(0.793)	54599	0.50000	0.553
	36 cis-1,2-Dichloroethene	96	3.455	3.452	(0.815)	12995	0.50000	0.497
	37 Ethyl Acetate	43	3.477	3.490	(0.821)	33789	0.50000	0.519(QM)
	38 Ethyl Tert-Butyl Ether	59	3.558	3.564	(0.839)	112323	1.25000	1.18
	39 Chloroform	83	3.551	3.548	(0.838)	35671	0.50000	0.541
	40 Tetrahydrofuran	42	3.712	3.718	(0.876)	16495	0.50000	0.502
	41 1,1,1-Trichloroethane	97	3.885	3.895	(0.917)	34472	0.50000	0.519
	42 1,2-Dichloroethane	62	3.898	3.904	(0.920)	24683	0.50000	0.512
	43 Benzene	78	4.093	4.097	(0.966)	39070	0.50000	0.501
	45 Carbon tetrachloride	117	4.109	4.113	(0.970)	31376	0.50000	0.502
	44 Cyclohexane	56	4.109	4.119	(0.970)	21535	0.50000	0.535
	46 Tert Amyl Methyl Ether	73	4.238	4.241	(1.000)	102324	0.50000	0.533
*	47 1,4-Difluorobenzene	114	4.238	4.238	(1.000)	3540553	10.0000	
	48 2,2,4-Trimethylpentane	57	4.363	4.366	(1.030)	196627	1.25000	1.18
	49 Heptane	43	4.482	4.479	(1.058)	33376	0.50000	0.549
	50 1,2-Dichloropropane	63	4.543	4.546	(1.072)	18151	0.50000	0.506
	51 Trichloroethene	130	4.562	4.565	(1.076)	22983	0.50000	0.537
	52 Methyl methacrylate	69	4.652	4.662	(1.098)	13792	0.50000	0.488
	53 Bromodichloromethane	83	4.652	4.655	(1.098)	37099	0.50000	0.504
	54 1,4-Dioxane	88	4.694	4.719	(1.107)	3162	0.50000	0.537(H)
	55 Methylcyclohexane	98	4.950	4.947	(1.168)	8811	0.50000	0.534
	56 Methyl Isobutyl Ketone	43	5.091	5.101	(1.201)	107005	1.25000	1.18
	57 cis-1,3-Dichloropropene	75	5.120	5.130	(1.208)	24294	0.50000	0.500(Q)
	58 trans-1,3-Dichloropropene	75	5.496	5.502	(1.297)	18879	0.50000	0.485(H)
$	59 Toluene-d8 (S)	98	5.557	5.557	(1.311)	3519492	10.0000	9.92
	60 Toluene	91	5.627	5.627	(1.328)	57008	0.50000	0.545
	61 1,1,2-Trichloroethane	97	5.634	5.634	(1.329)	20363	0.50000	0.502
	62 Methyl Butyl Ketone	43	5.878	5.897	(0.837)	96270	1.25000	1.35
	63 n-Octane	43	6.051	6.048	(0.861)	39016	0.50000	0.526
	64 Dibromochloromethane	129	6.115	6.115	(0.870)	35864	0.50000	0.487
	65 1,2-Dibromoethane	107	6.330	6.340	(0.901)	31221	0.50000	0.491
	66 Tetrachloroethene	166	6.401	6.394	(0.911)	37224	0.50000	0.563
*	67 Chlorobenzene - d5	117	7.026	7.026	(1.000)	2990415	10.0000	
	68 Chlorobenzene	112	7.062	7.065	(1.005)	42721	0.50000	0.530(Q)
	69 Ethyl Benzene	91	7.312	7.312	(1.041)	68275	0.50000	0.520
	70 m&p-Xylene	91	7.456	7.453	(1.061)	111926	1.00000	0.958
	71 Bromoform	173	7.822	7.829	(1.113)	24551	0.50000	0.477
	72 n-Nonane	43	7.857	7.858	(1.118)	36465	0.50000	0.533
	73 Styrene	104	7.861	7.874	(1.119)	33525	0.50000	0.504
	74 o-Xylene	91	7.928	7.925	(1.128)	55807	0.50000	0.516
	75 1,1,2,2-Tetrachloroethane	83	8.188	8.191	(1.165)	35988	0.50000	0.501
	76 Isopropylbenzene	105	8.493	8.496	(1.209)	72715	0.50000	0.543
	77 N-Propylbenzene	91	9.054	9.051	(1.289)	75692	0.50000	0.537

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06817.d
Report Date: 13-Mar-2017 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	9.224	9.228	(1.313)	55516	0.50000	0.482
79	1,3,5-Trimethylbenzene	105	9.314	9.318	(1.326)	57888	0.50000	0.509
80	n-Decane	57	9.722	9.719	(2.294)	29336	0.50000	0.510
81	Tert-Butyl Benzene	119	9.805	9.809	(1.395)	54730	0.50000	0.516
82	1,2,4-Trimethylbenzene	105	9.828	9.825	(1.399)	64983	0.50000	0.523
83	1,3-Dichlorobenzene	146	10.126	10.133	(1.441)	35554	0.50000	0.507(H)
84	Sec- Butylbenzene	105	10.152	10.146	(1.445)	68491	0.50000	0.520
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1769640	10.0000	9.66
86	Benzyl Chloride	91	10.219	10.219	(1.454)	33410	0.50000	0.458(M)
87	1,4-Dichlorobenzene	146	10.232	10.235	(1.456)	35907	0.50000	0.491(Q)
88	p-Isopropyltoluene	119	10.373	10.370	(1.476)	60963	0.50000	0.519
89	1,2,3-Trimethylbenzene	105	10.412	10.415	(1.482)	47938	0.50000	0.522
90	1,2-Dichlorobenzene	146	10.704	10.704	(1.523)	31677	0.50000	0.488
91	N-Butylbenzene	91	10.967	10.970	(1.561)	47262	0.50000	0.491
92	1,2-Dibromo-3-Chloropropane	157	11.528	11.541	(1.641)	5788	0.50000	0.390(QM)
93	1,2,4-Trichlorobenzene	180	12.844	12.851	(1.828)	8457	0.50000	0.484(M)
94	Naphthalene	128	12.963	12.966	(1.845)	14156	0.50000	0.452(M)
95	Hexachlorobutadiene	225	13.220	13.223	(1.881)	13029	0.50000	0.500

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06817.d
Report Date: 13-Mar-2017 10:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06817.d
Lab Smp Id: CAL3
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

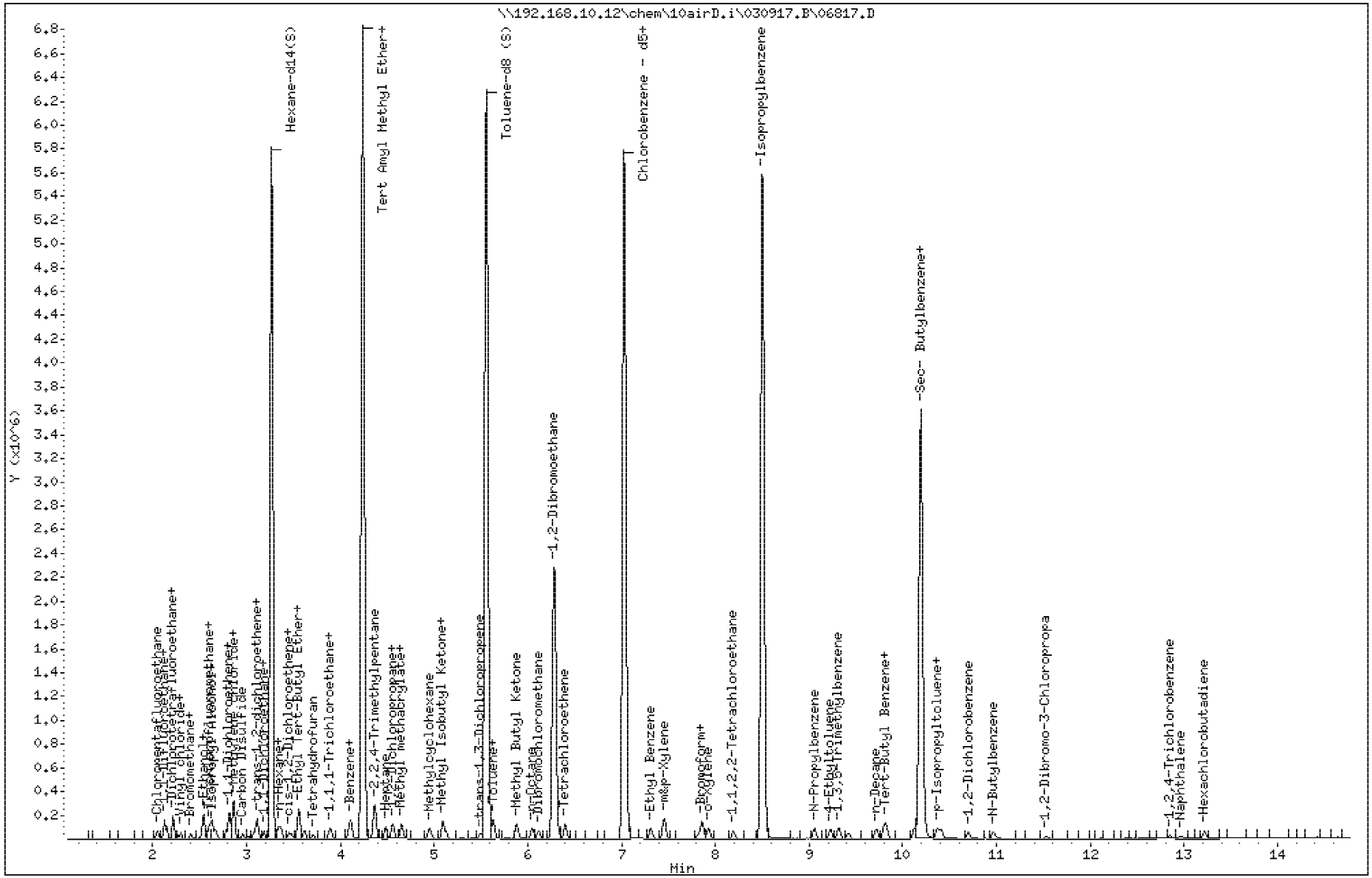
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3540553	-6.52
67 Chlorobenzene - d	3280875	1968525	4593225	2990415	-8.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.23
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

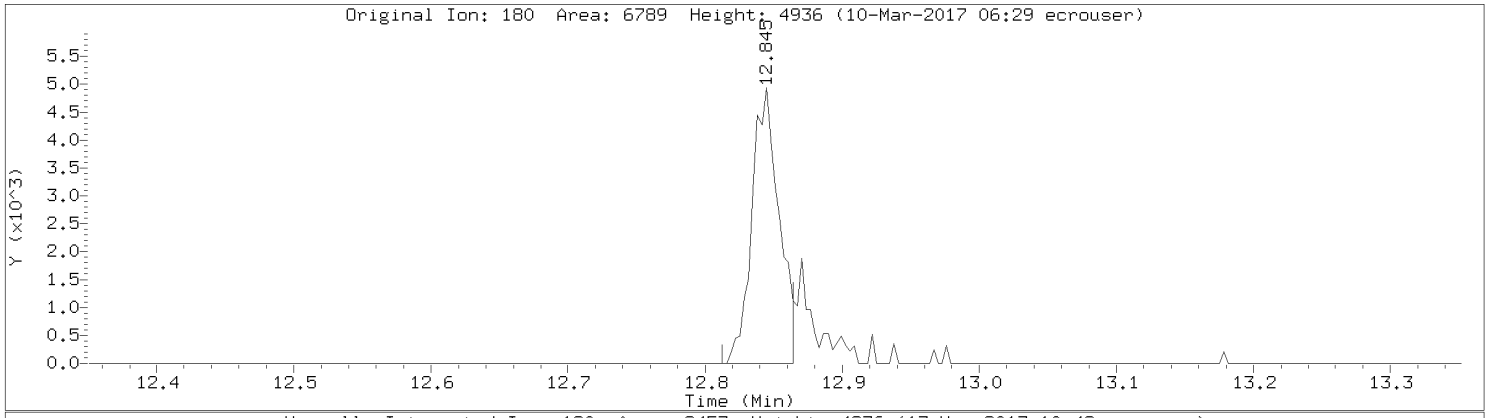
Data File: \\192.168.10.12\chem\10airD.i\030917.B\06817.D
Date : 09-MAR-2017 20:31
Client ID:
Sample Info:

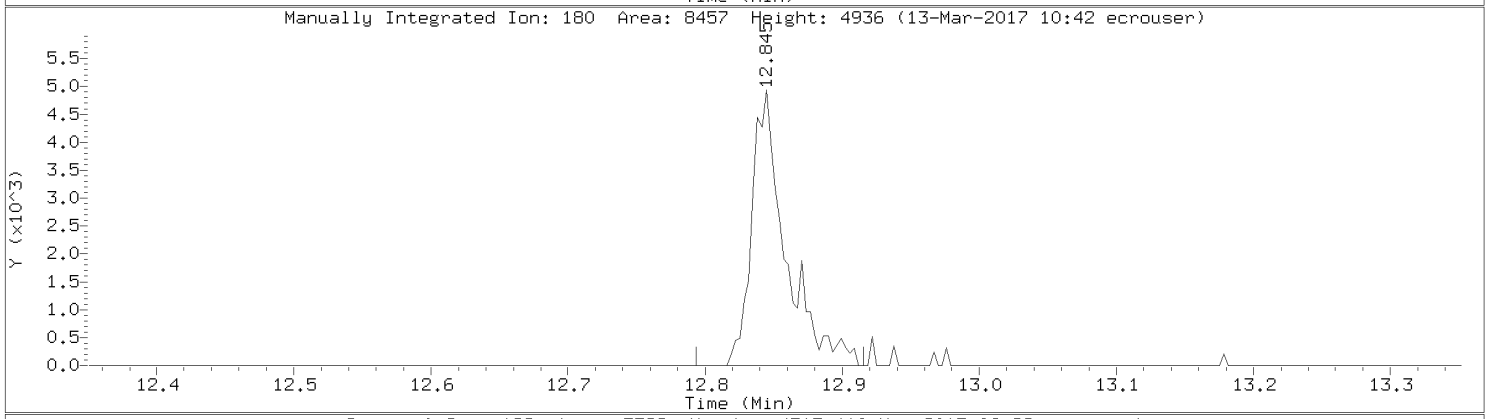
Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

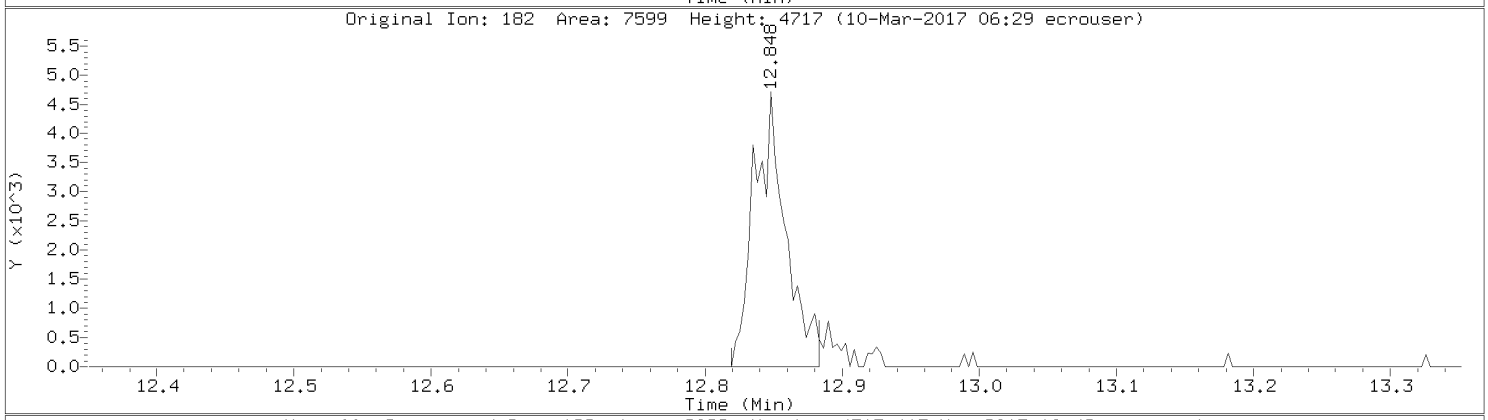


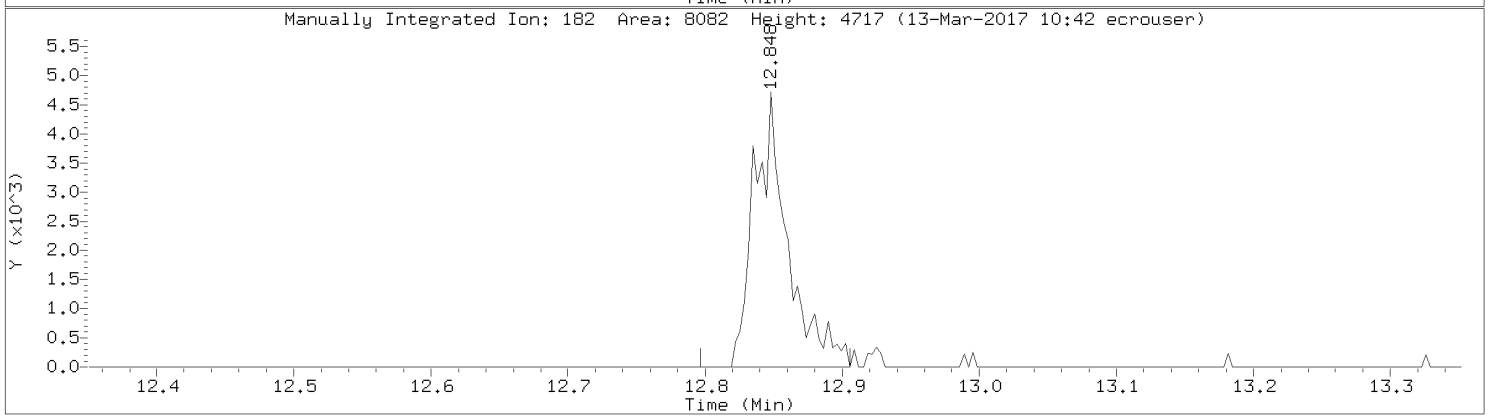
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

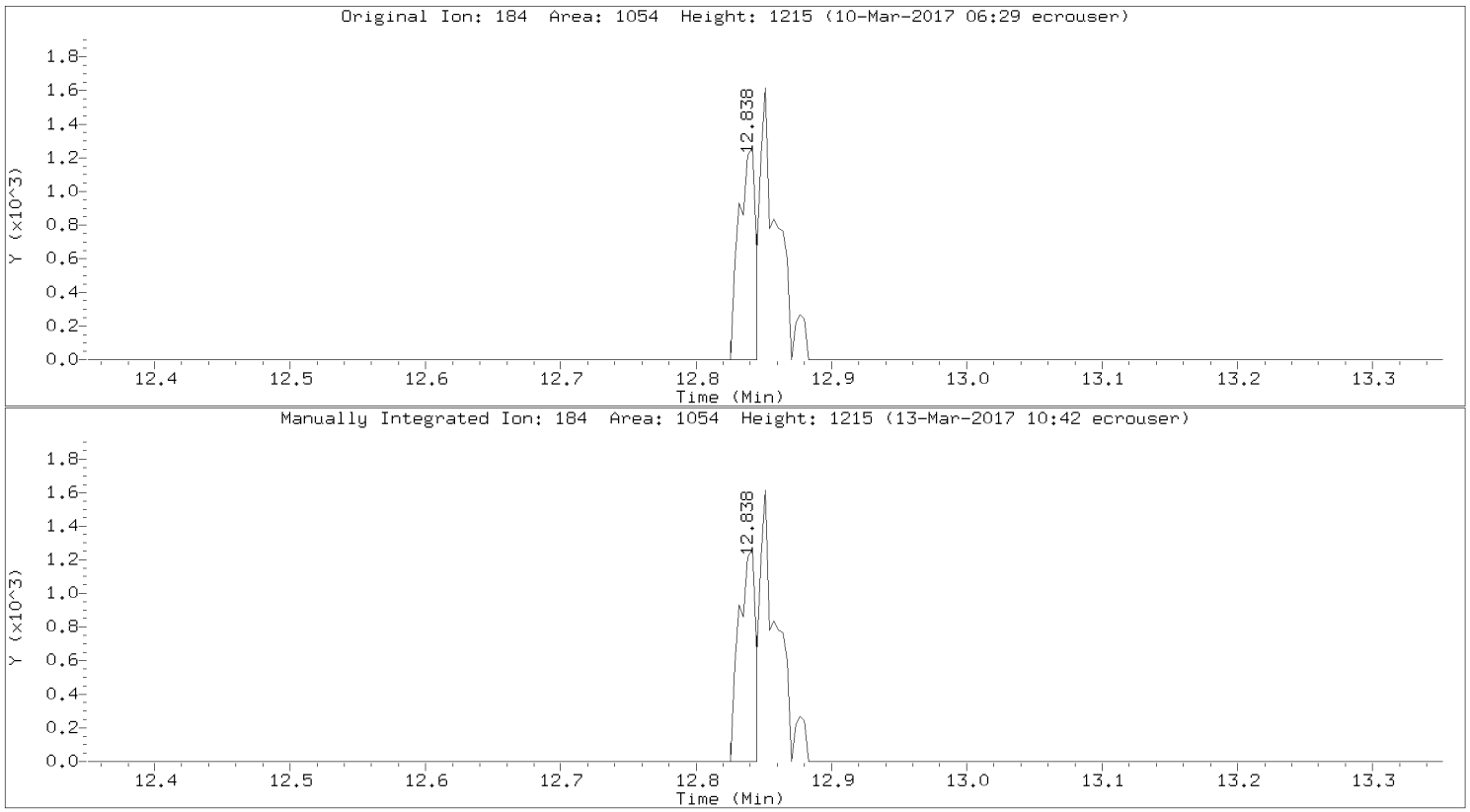






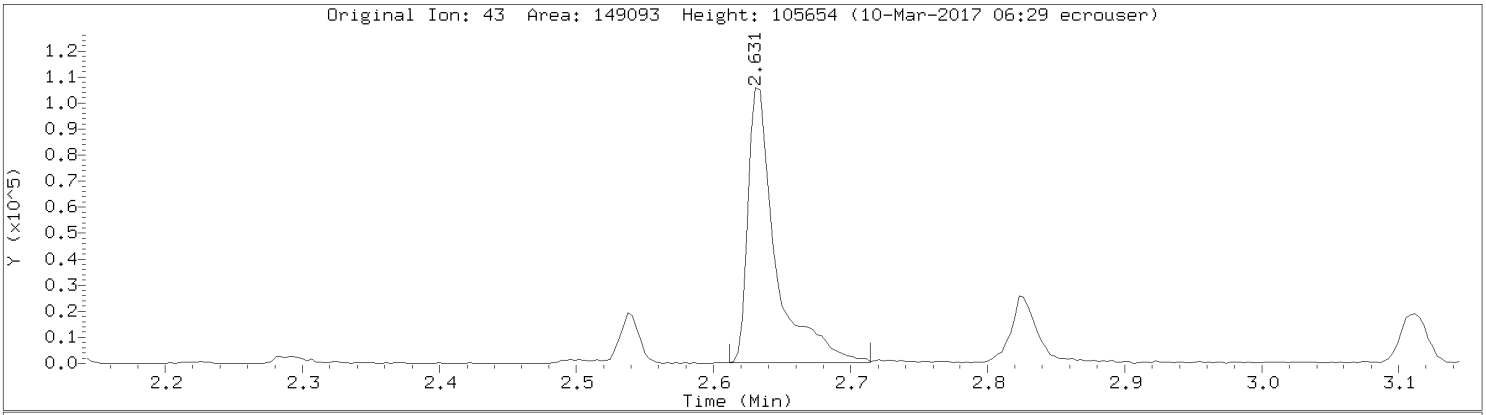


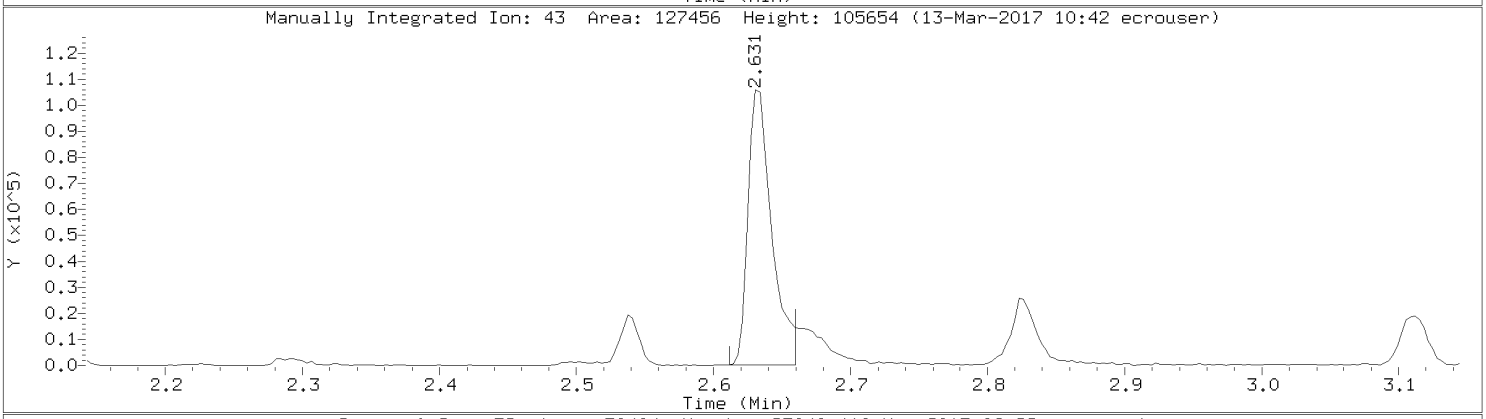
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

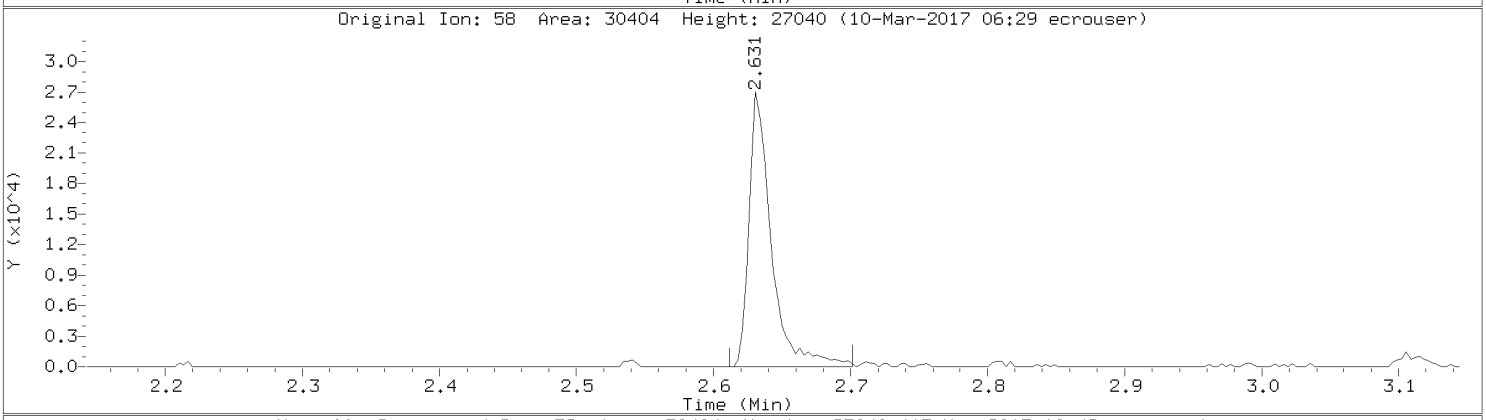


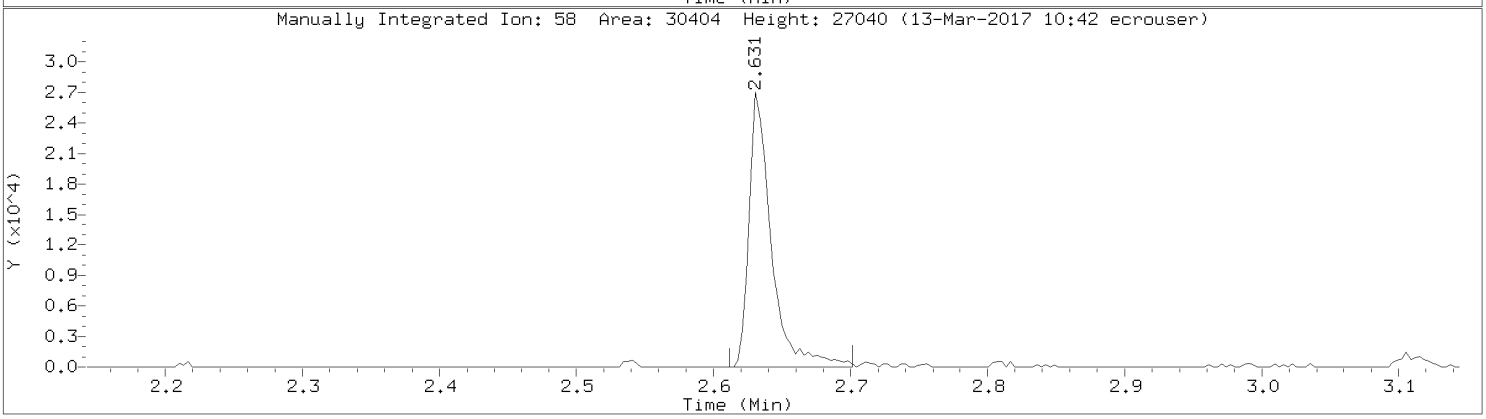
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Acetone
CAS Number: 67-64-1



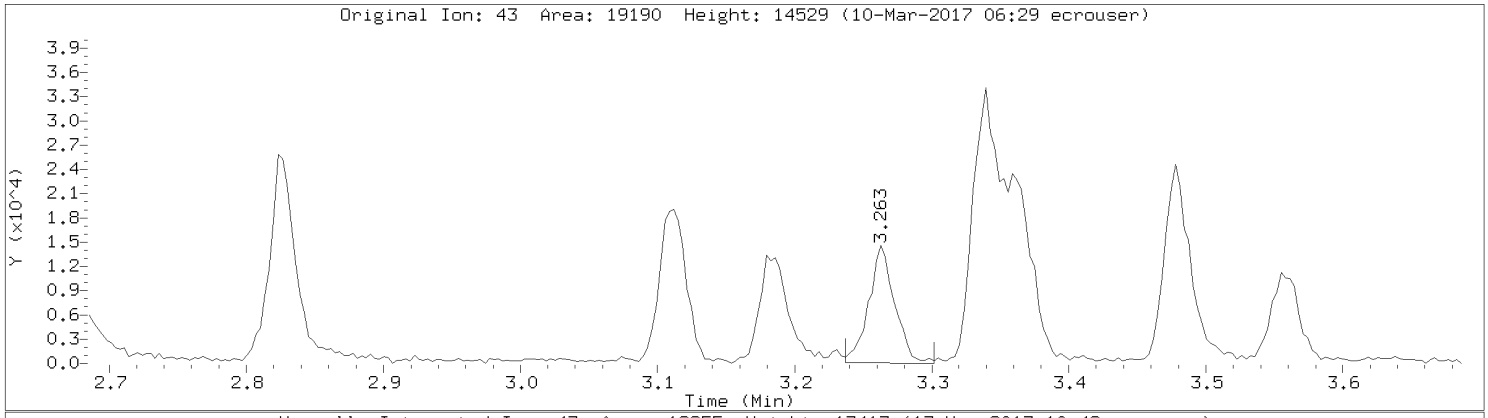


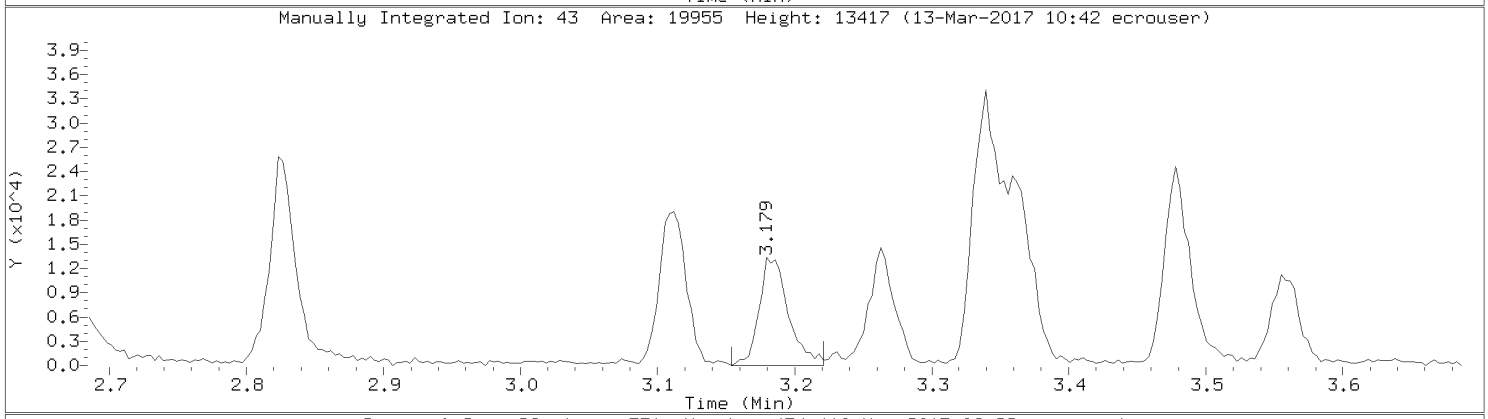


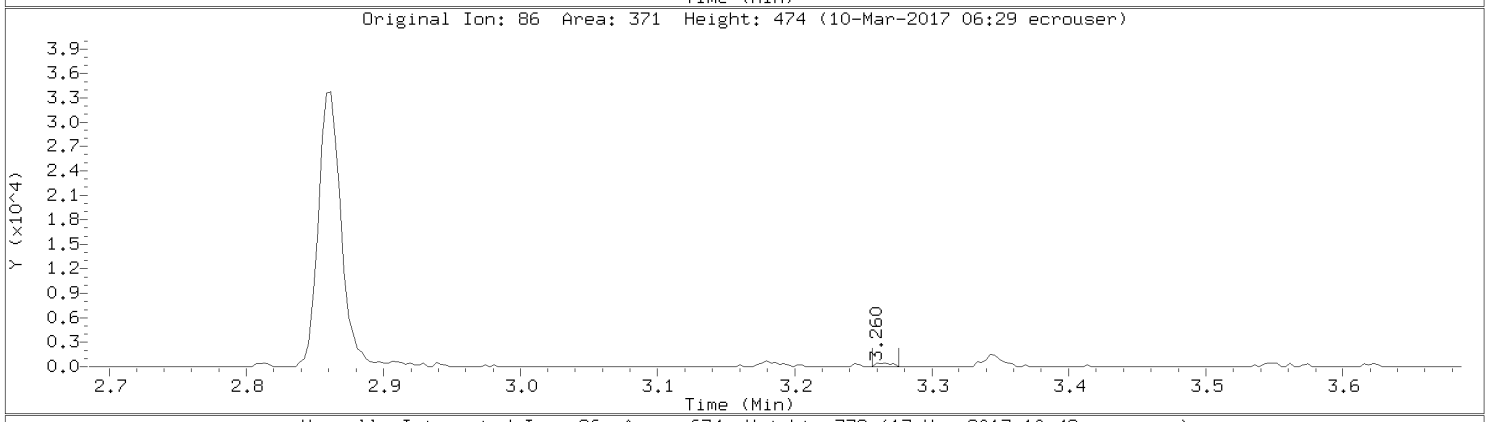


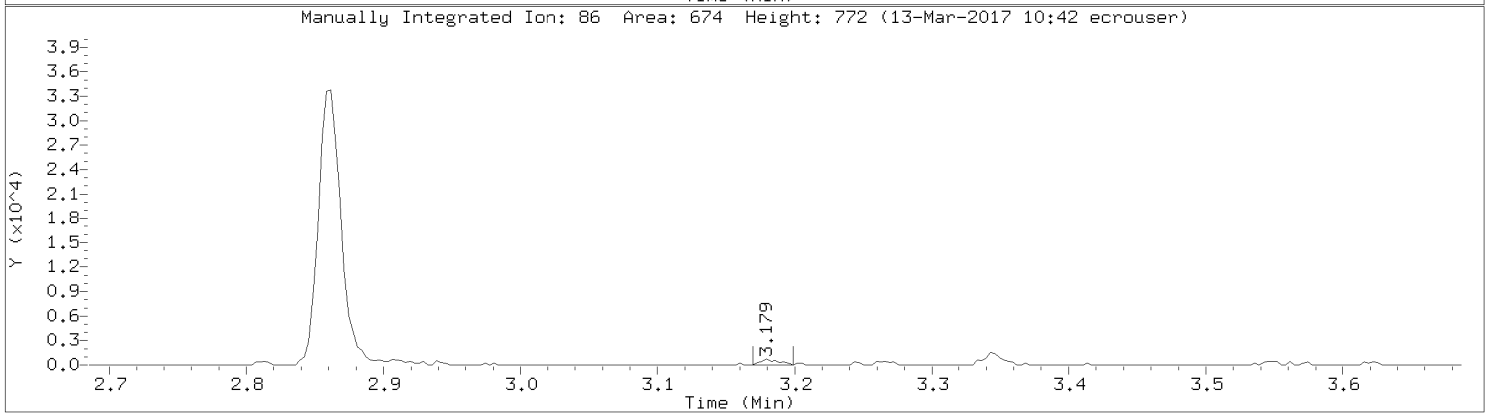
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Vinyl Acetate
CAS Number: 108-05-4



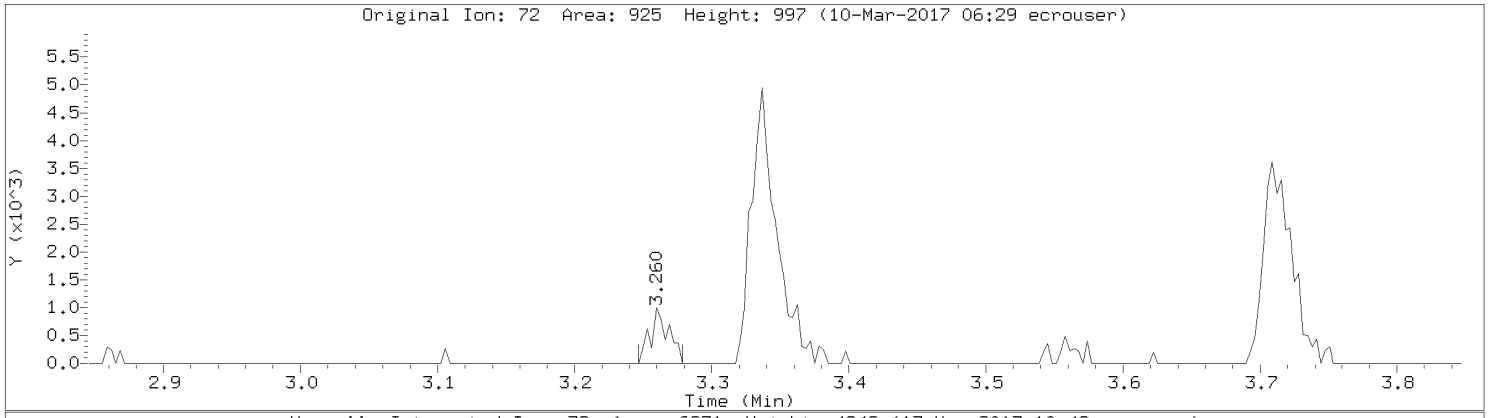


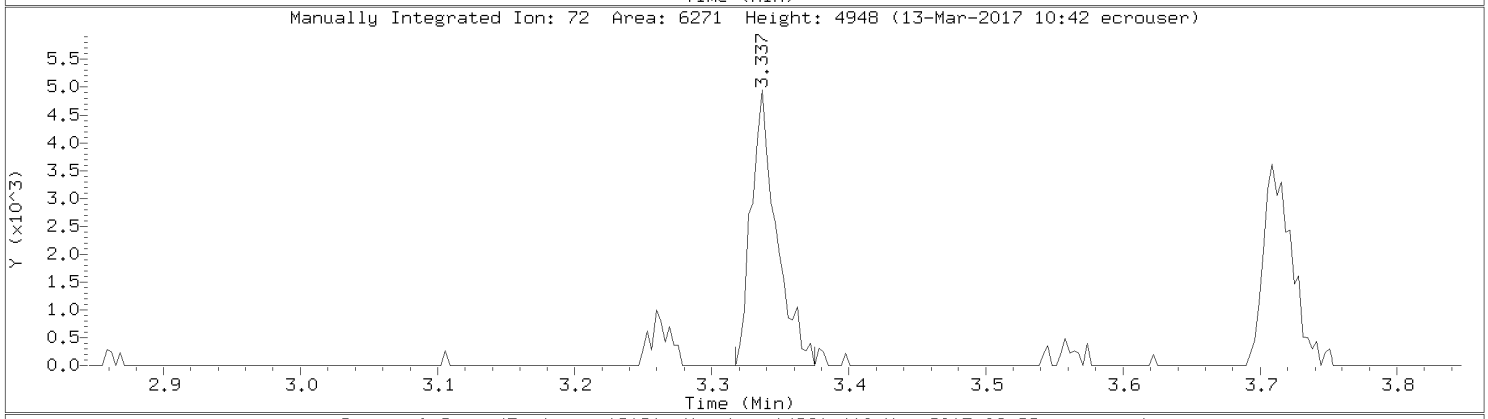


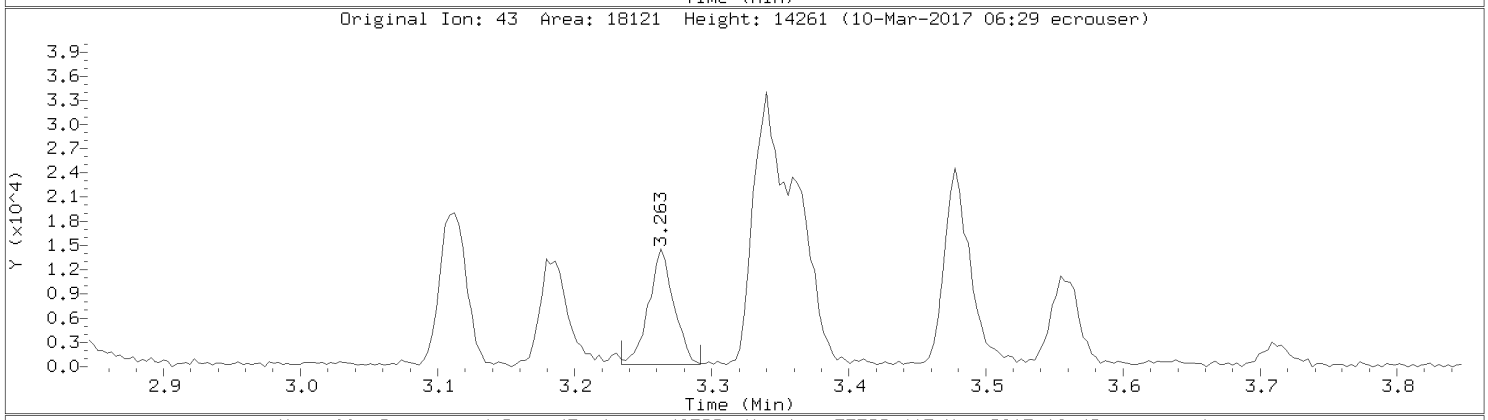


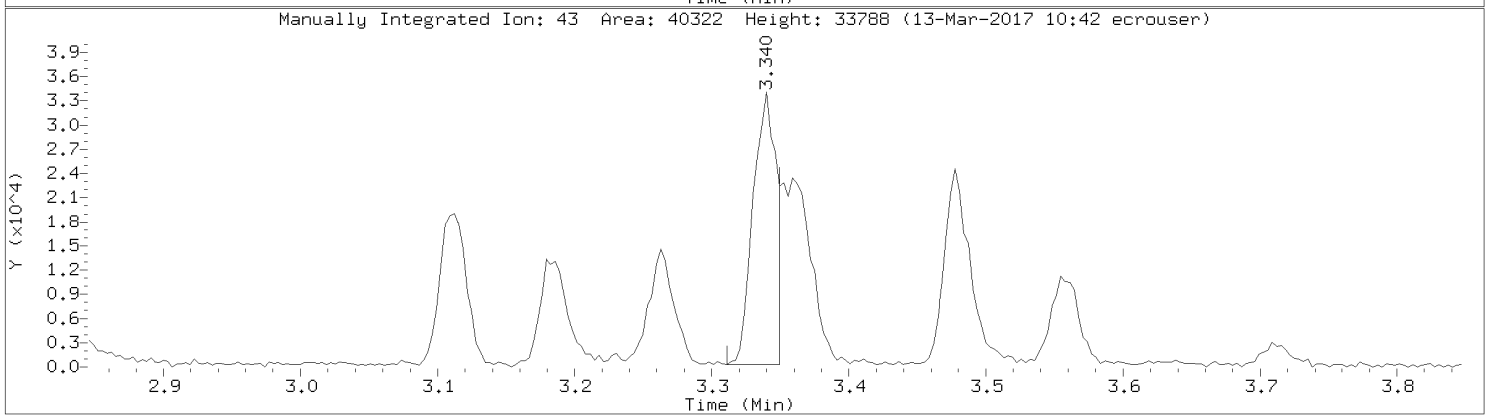
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



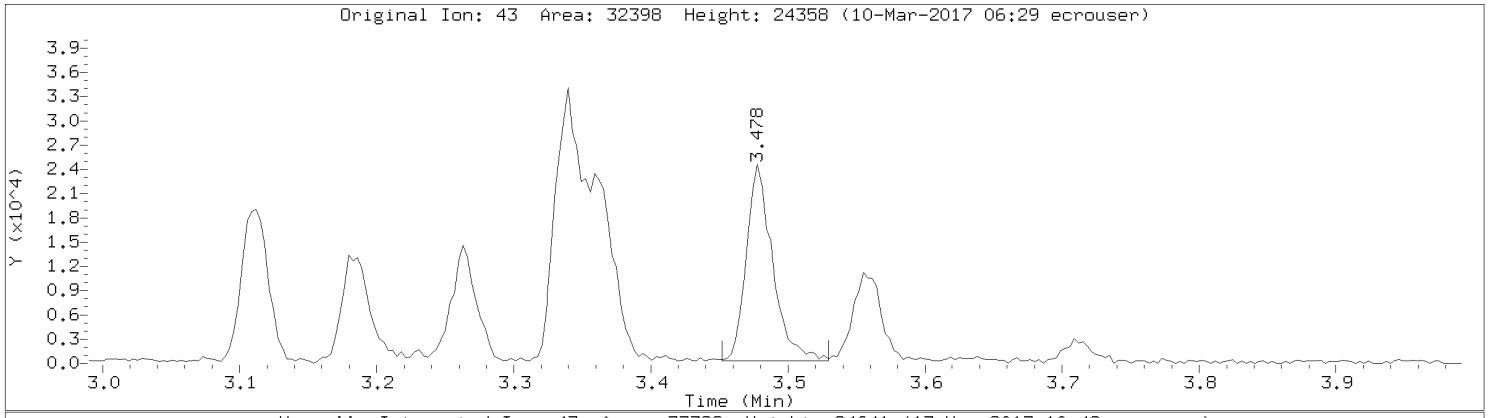


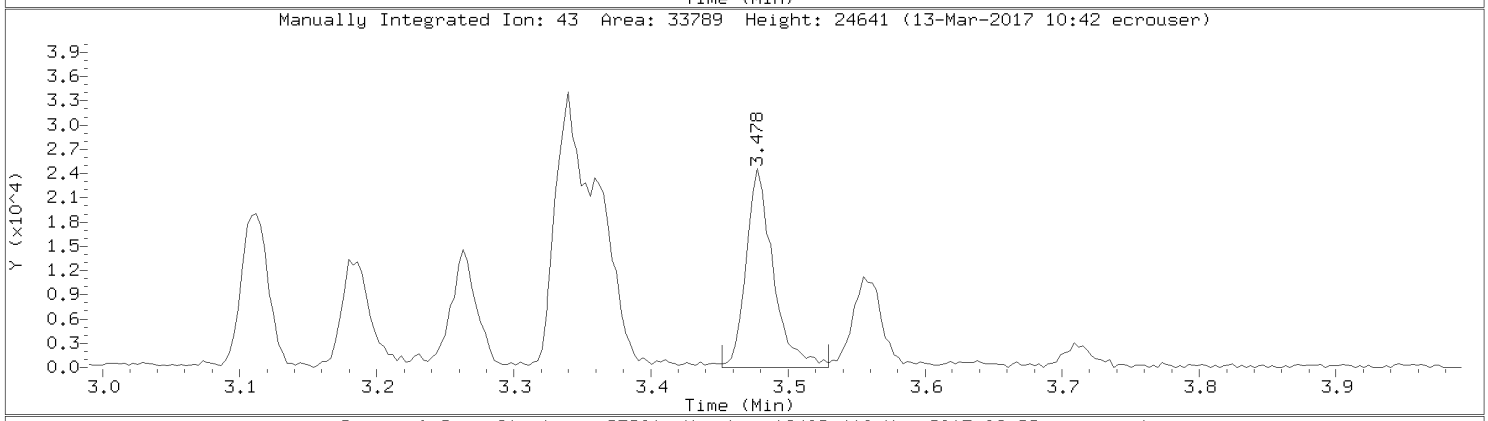


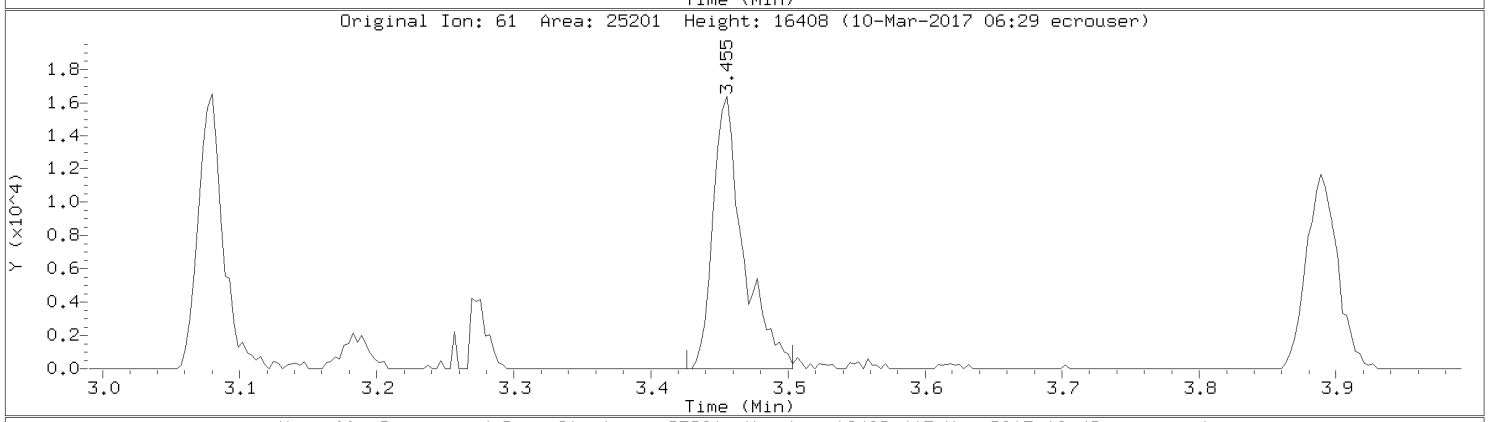


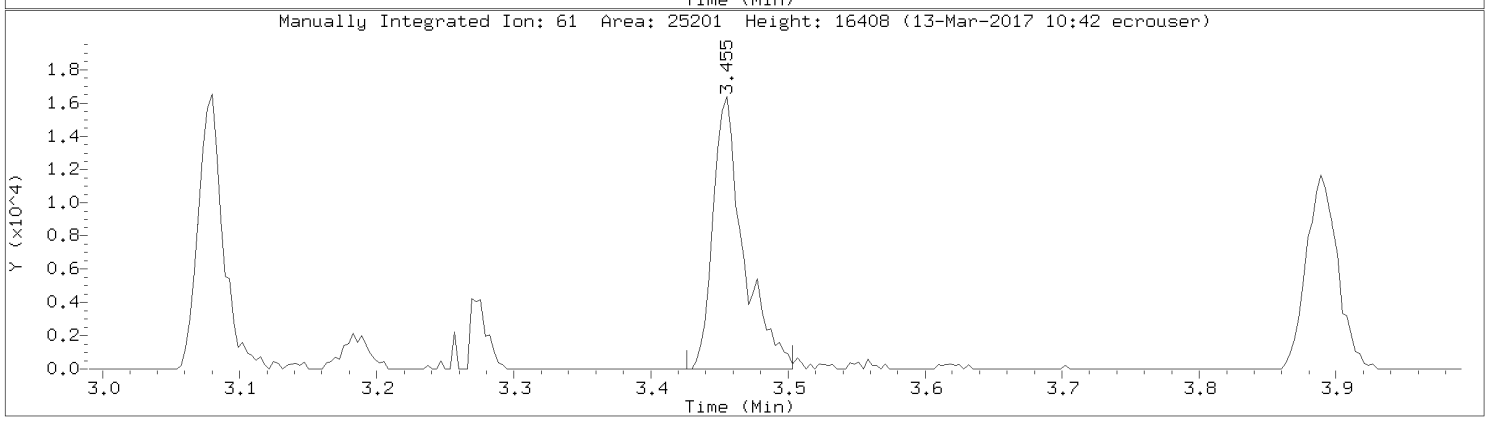
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Ethyl Acetate
CAS Number: 141-78-6

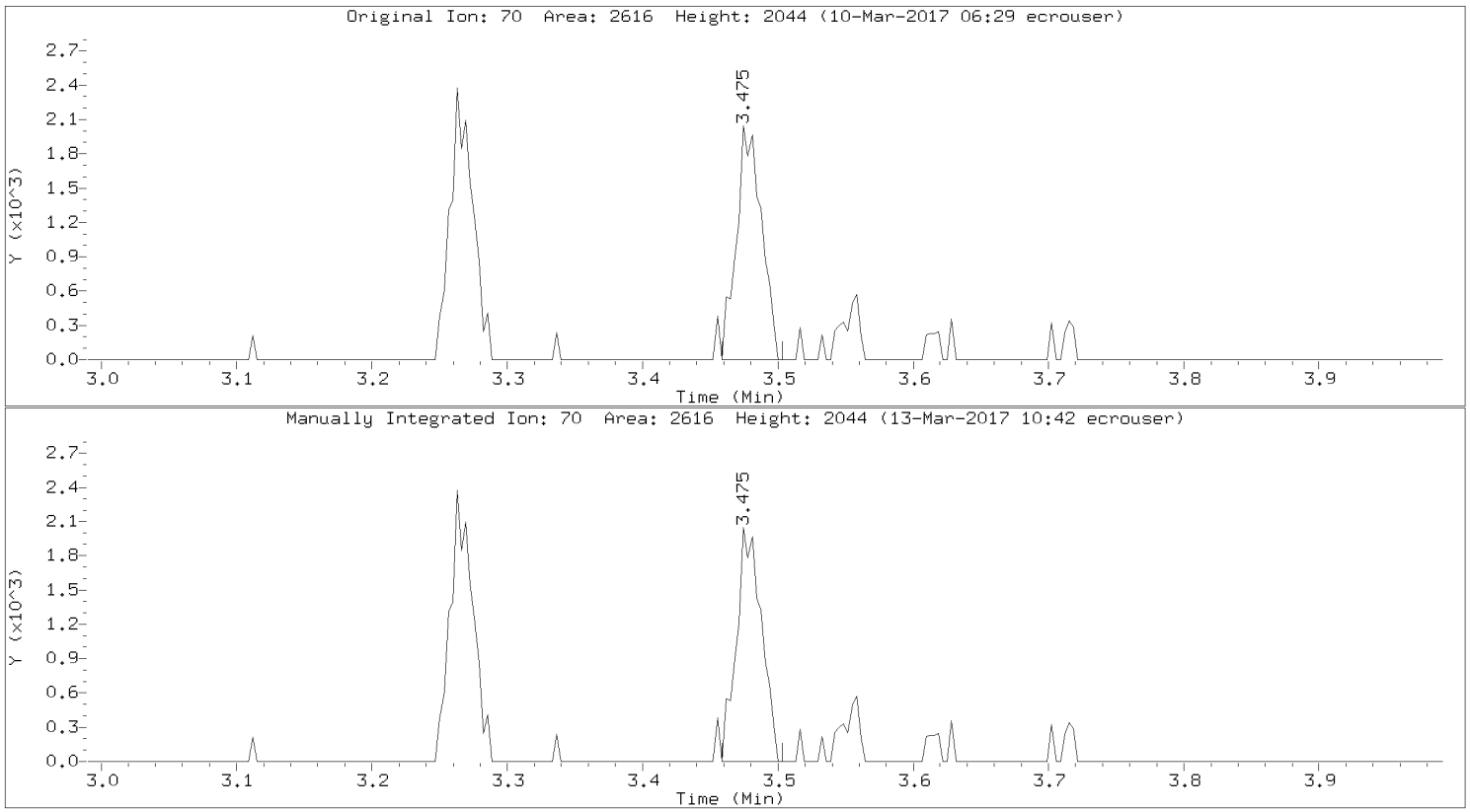






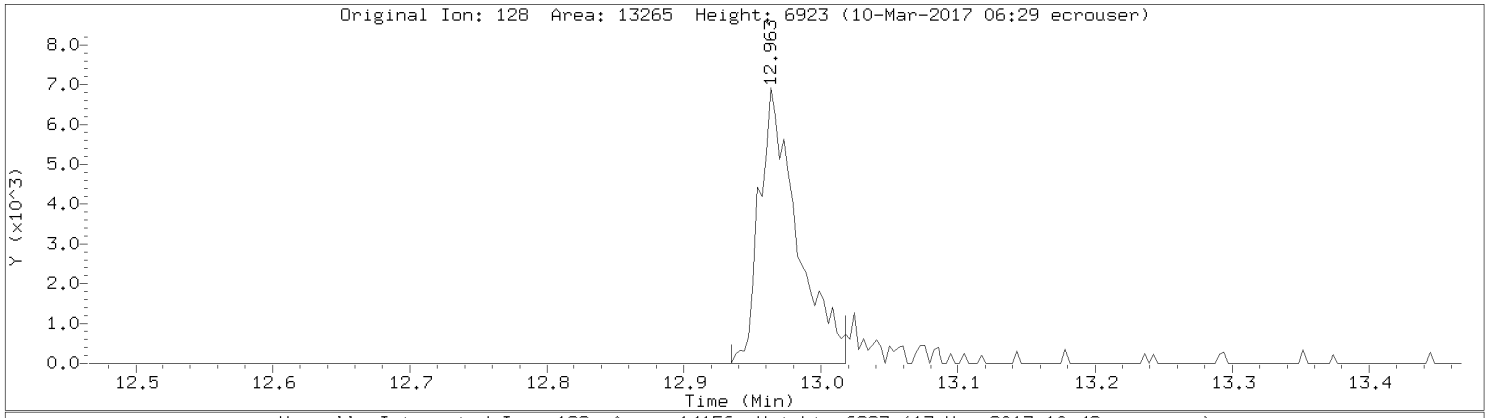


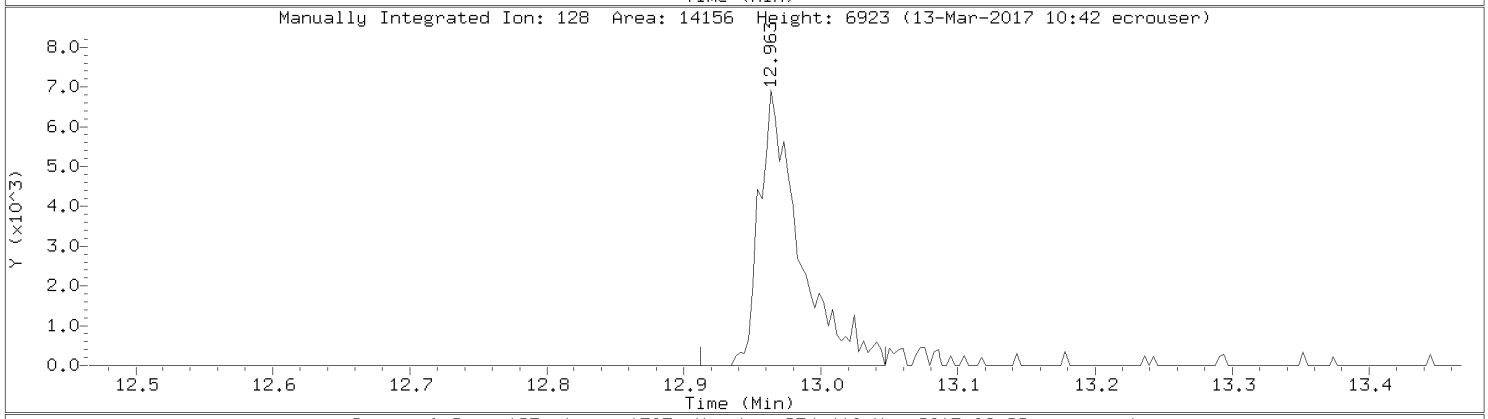
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

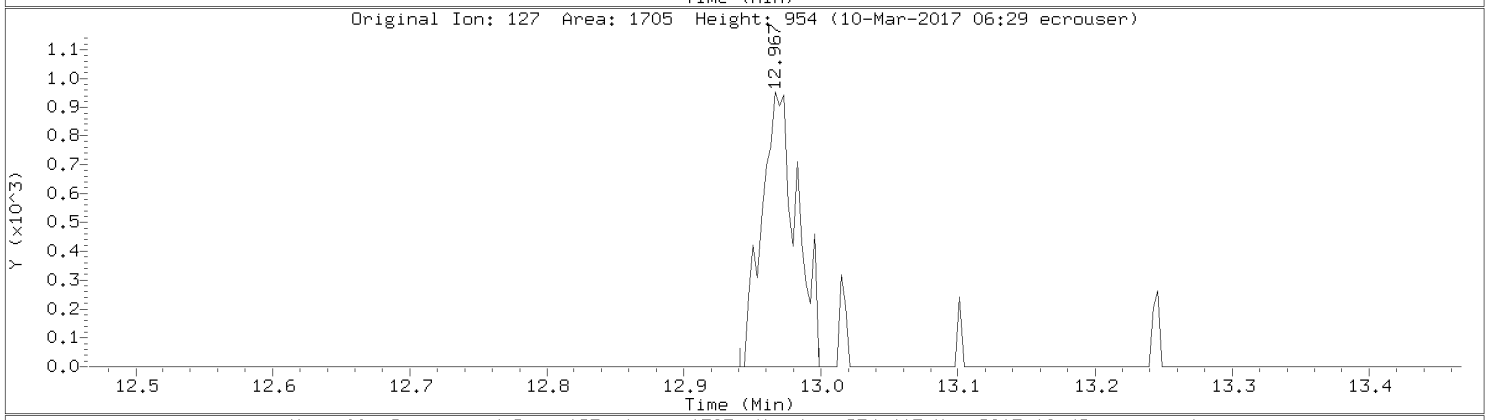


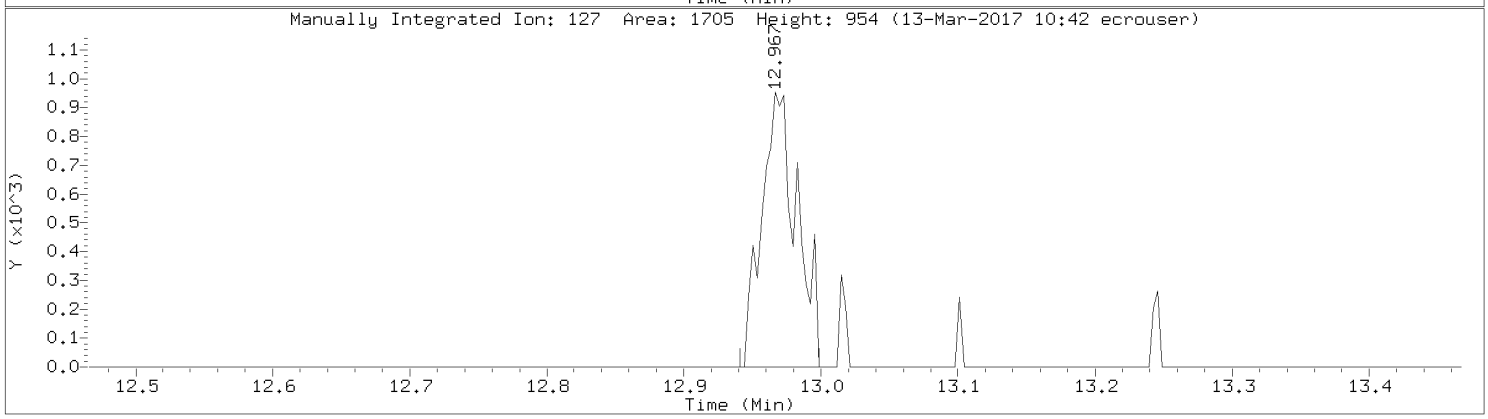
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Naphthalene
CAS Number: 91-20-3



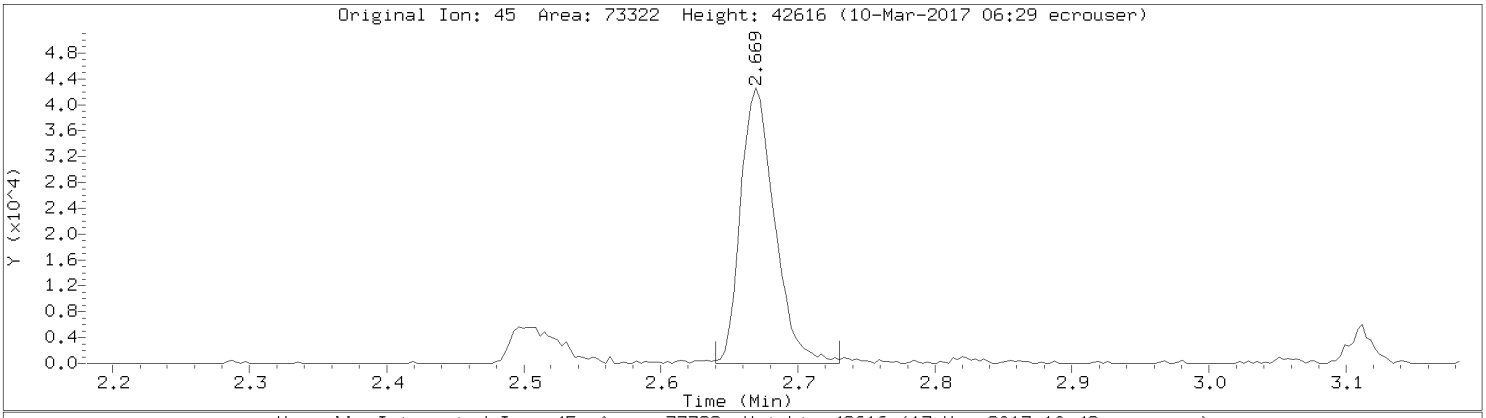


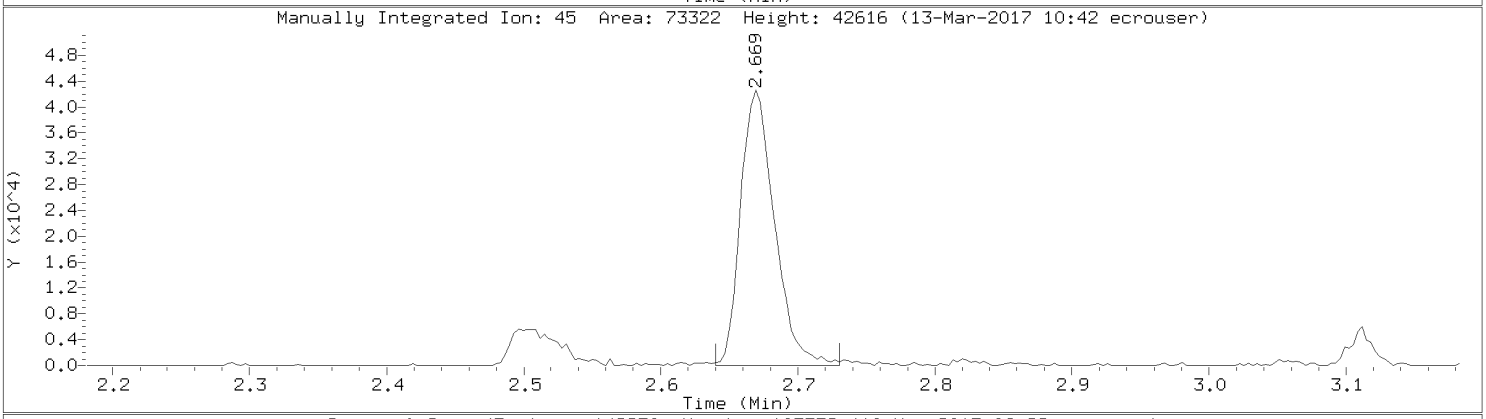


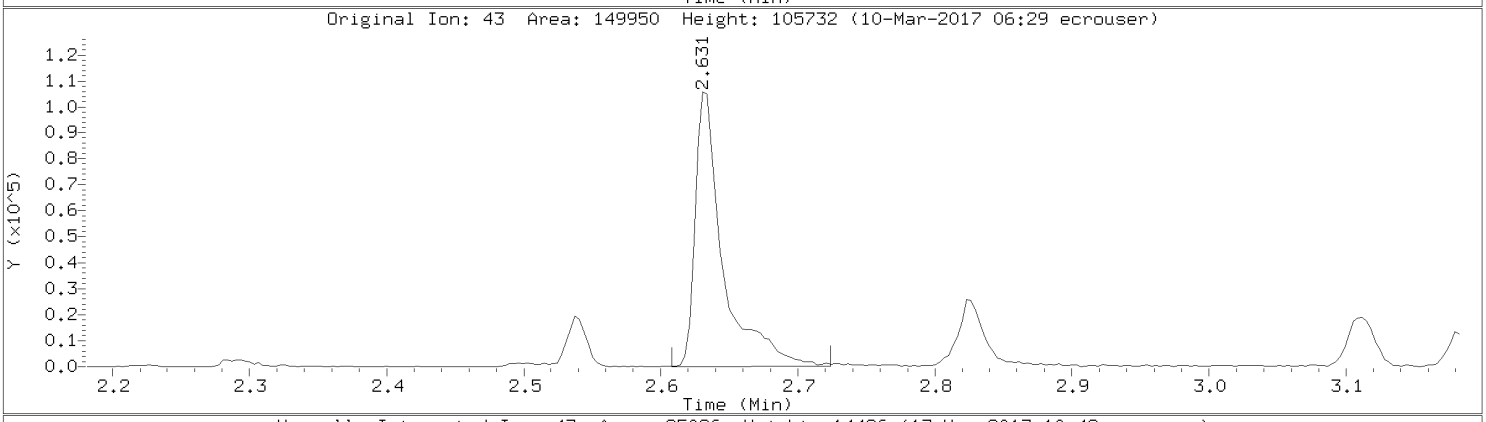


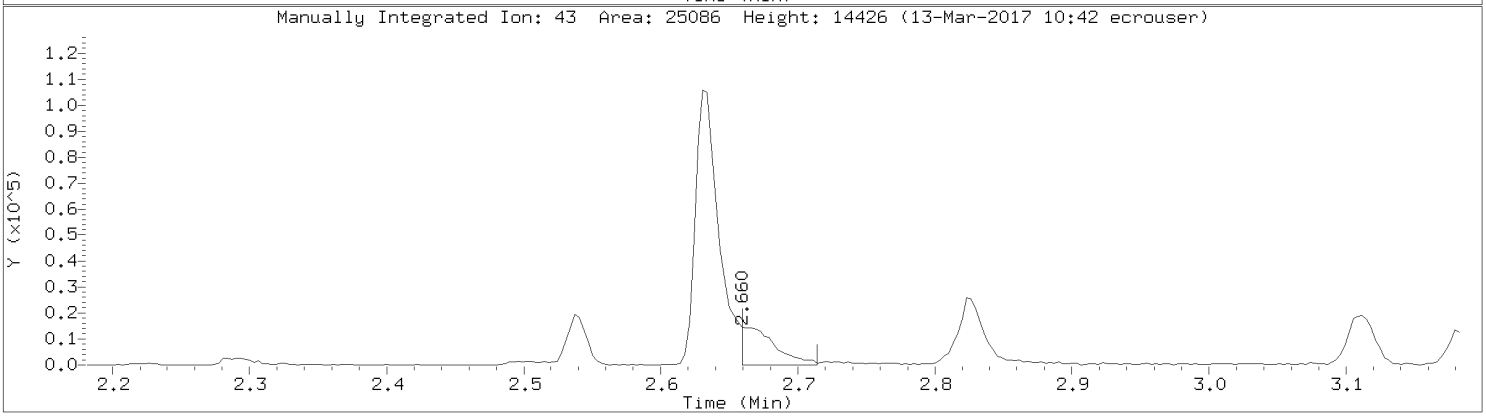
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



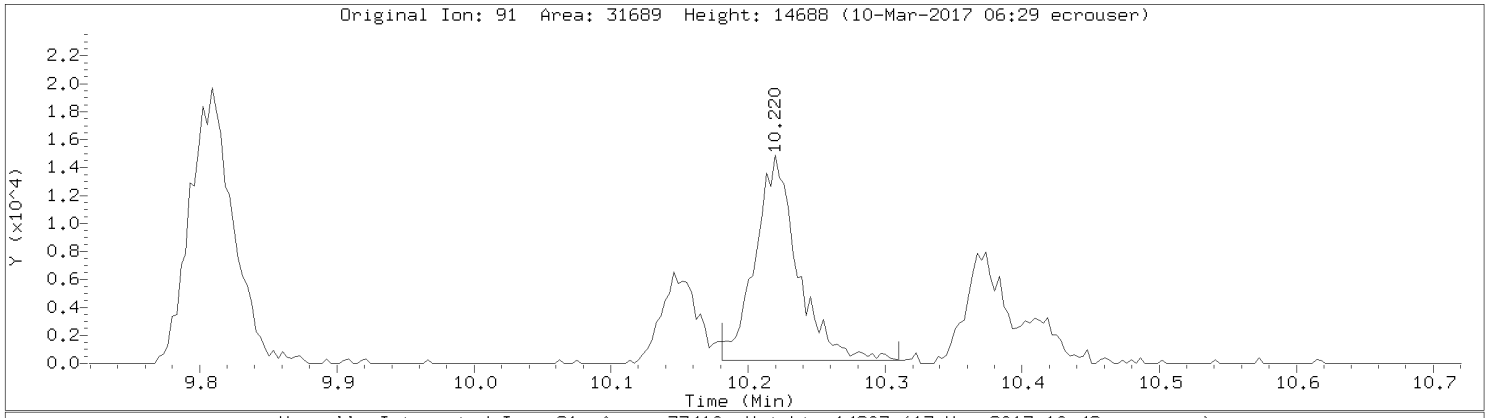


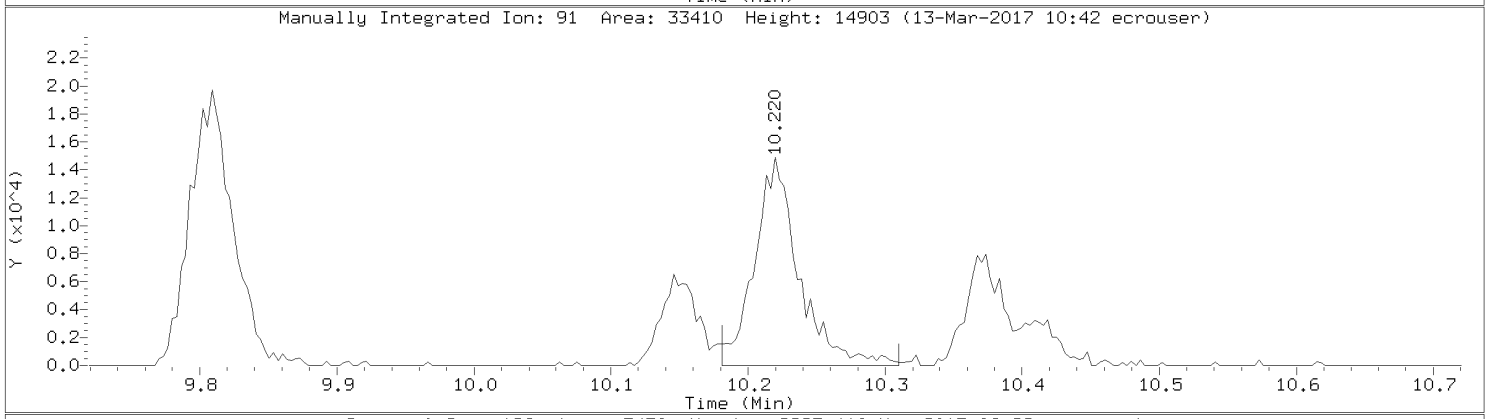


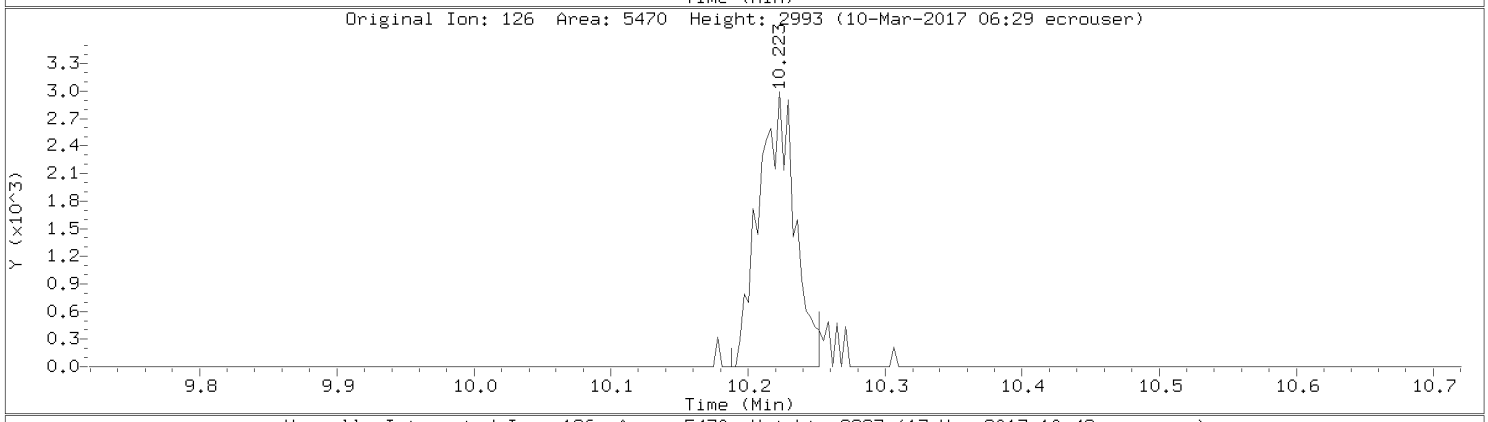


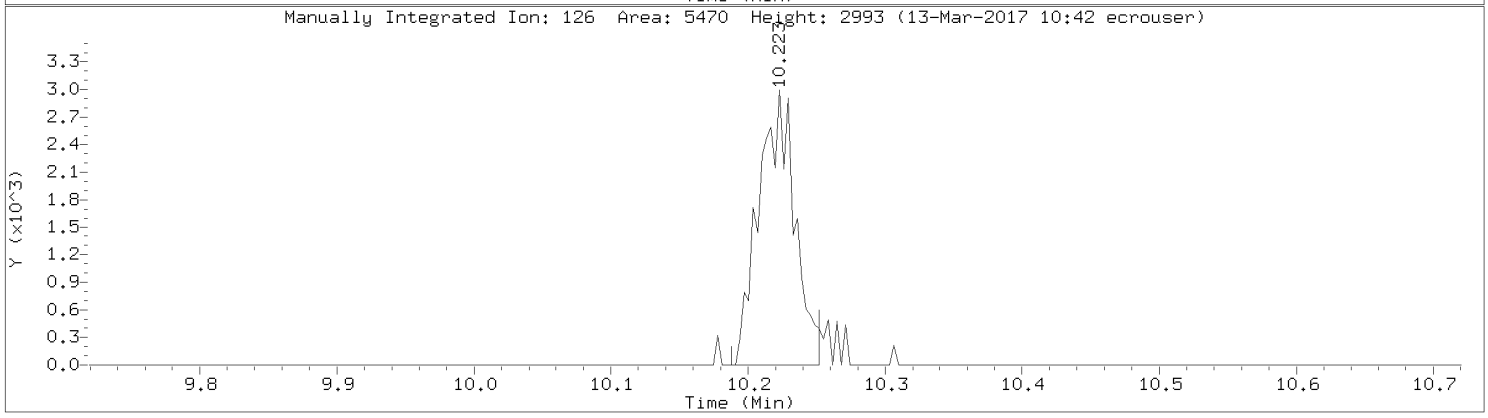
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Benzyl Chloride
CAS Number: 100-44-7



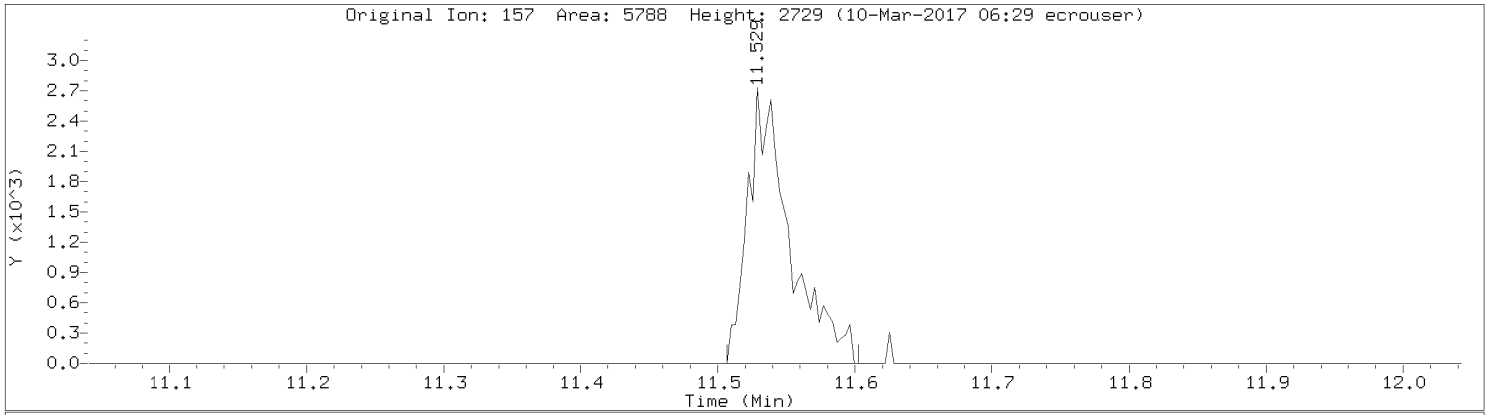


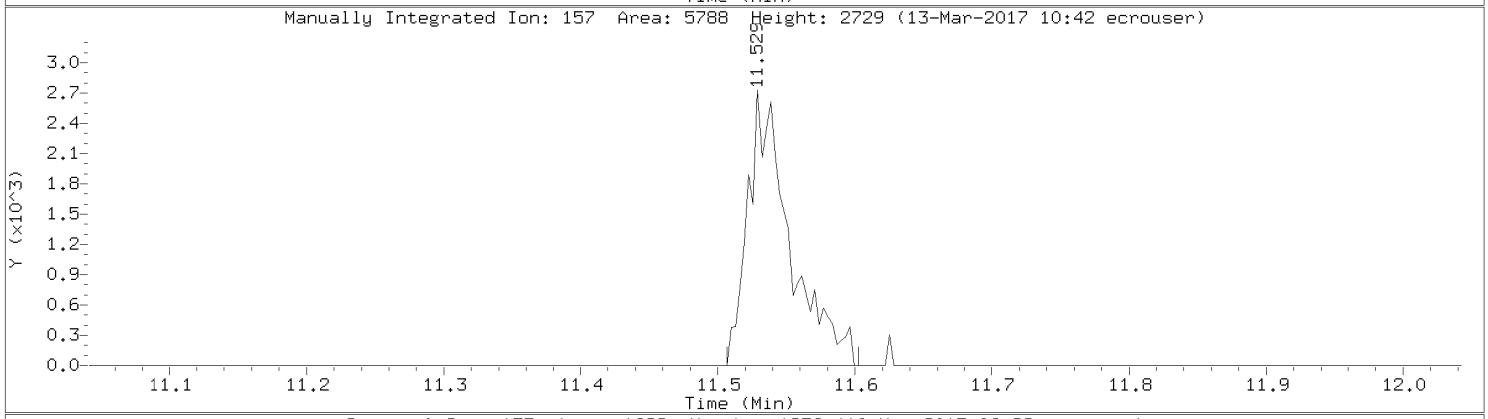


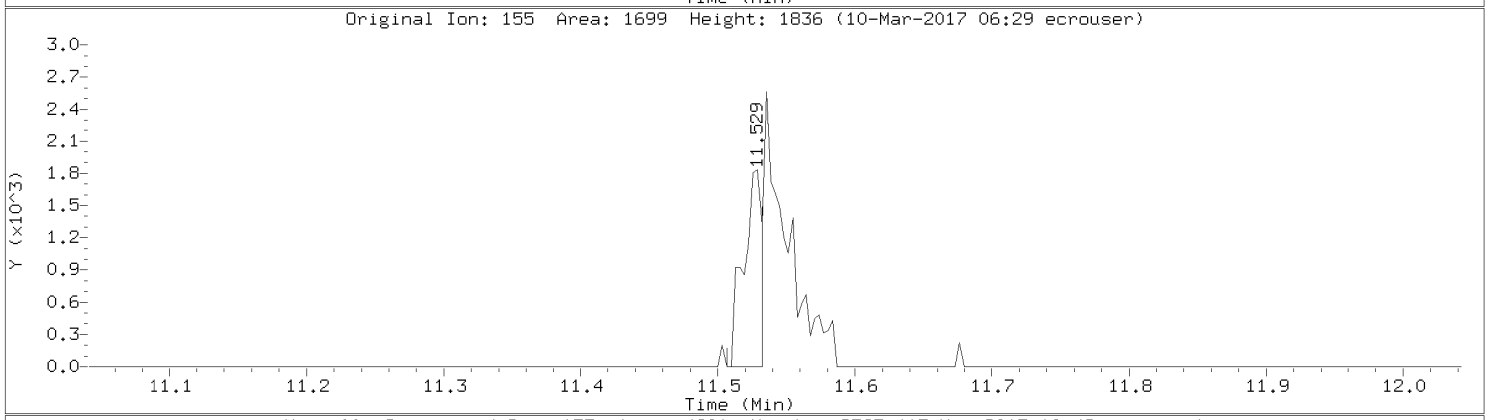


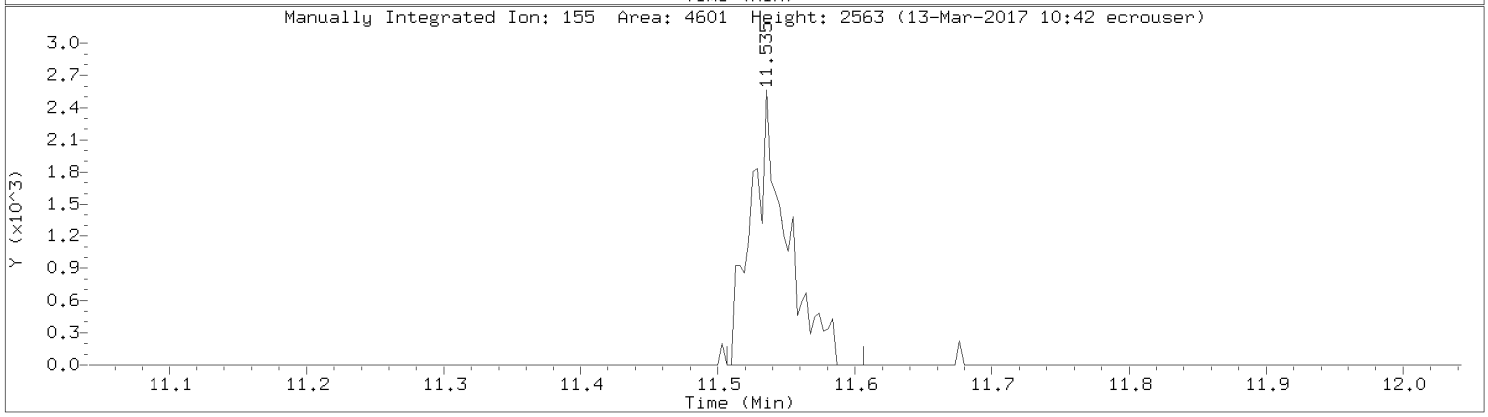
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

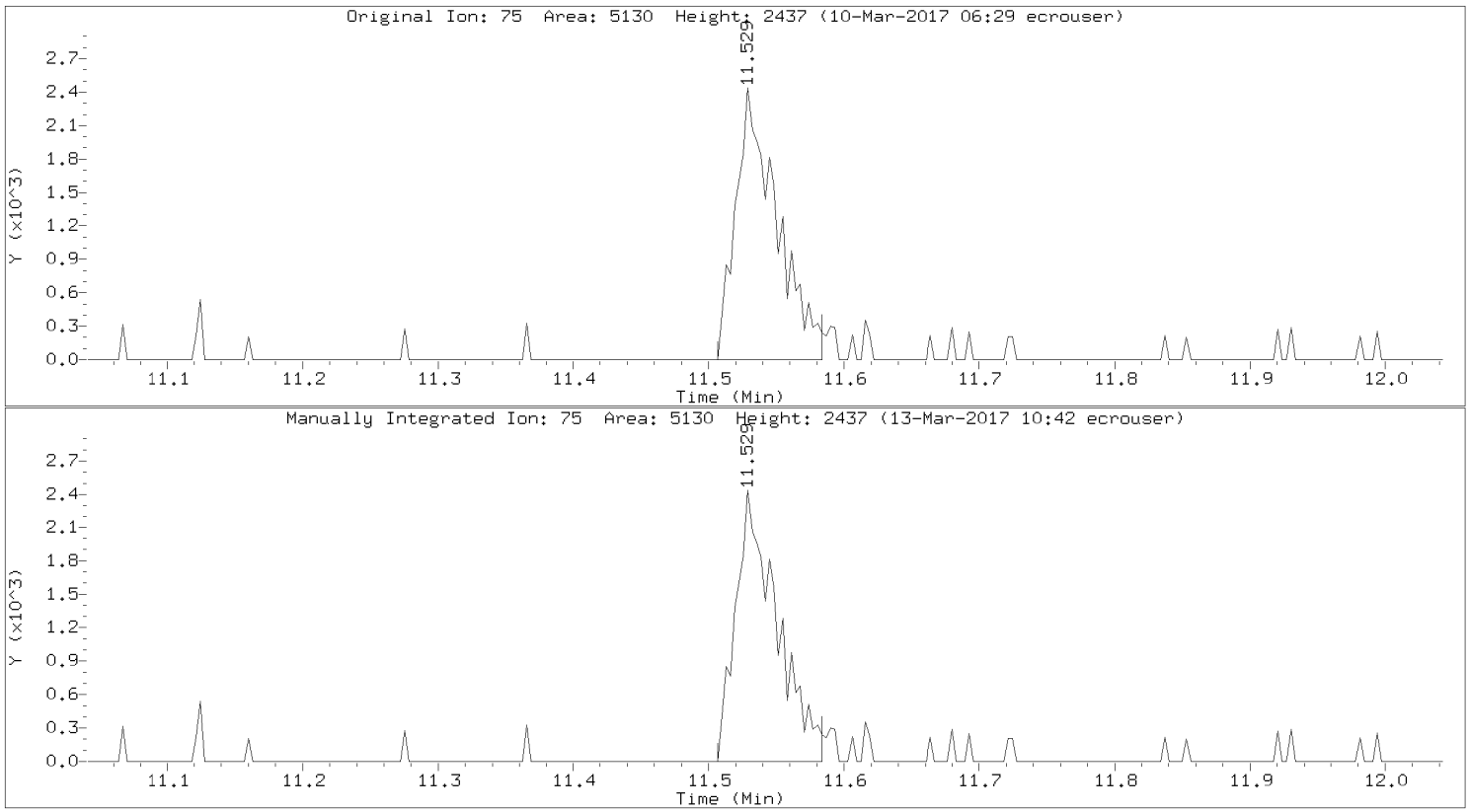








Data File: \\192.168.10.12\chem\10airD.i\030917.B/06817.d
Injection Date: 09-MAR-2017 20:31
Instrument: 10airD.i
Lab Sample ID: CAL3



Data File: \\192.168.10.12\chem\10airD.i\030917.B\06818.d
Report Date: 13-Mar-2017 10:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\030917.B\06818.d
Lab Smp Id: CAL4
Inj Date : 09-MAR-2017 21:36
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 18 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.091	2.075	(0.492)	3537	1.00000	0.586
2	1,1-Difluoroethane	65	2.136	2.120	(0.503)	19462	1.00000	1.15(Q)
3	Chlorodifluoromethane	67	2.149	2.136	(0.506)	10086	1.00000	1.20(Q)
4	Propylene	41	2.152	2.136	(0.506)	64128	1.00000	1.06
5	Dichlorodifluoromethane	85	2.171	2.155	(0.511)	88003	1.00000	1.15(H)
6	Dichlorotetrafluoroethane	85	2.239	2.220	(0.527)	95392	1.00000	1.23
7	Chloromethane	50	2.239	2.223	(0.527)	40588	1.00000	1.13
8	Vinyl chloride	62	2.296	2.281	(0.540)	30982	1.00000	1.11
9	1,3-Butadiene	54	2.322	2.306	(0.546)	20202	1.00000	1.04(Q)
10	Bromomethane	94	2.428	2.412	(0.571)	32898	1.00000	1.09
11	Chloroethane	64	2.460	2.447	(0.579)	12203	1.00000	1.15
12	Ethanol	45	2.537	2.508	(0.597)	24806	5.00000	4.63
13	Vinyl Bromide	106	2.550	2.534	(0.600)	30298	1.00000	1.07
14	Isopentane	43	2.560	2.544	(0.602)	37329	1.00000	1.12(H)
15	Freon 123	83	2.566	2.547	(0.604)	78708	1.00000	1.11
16	Trichlorofluoromethane	101	2.617	2.601	(0.616)	92055	1.00000	1.15
17	Acrolein	56	2.630	2.621	(0.619)	16314	2.50000	2.23
18	Acetone	43	2.656	2.643	(0.625)	259121	5.00000	5.42(MH)
19	Isopropyl Alcohol	45	2.701	2.682	(0.635)	144335	5.00000	5.31(MH)
20	1,1-Dichloroethene	61	2.804	2.791	(0.660)	52413	1.00000	1.10
21	Acrylonitrile	53	2.823	2.829	(0.664)	43411	2.50000	2.54(Q)
24	Tert Butyl Alcohol (TBA)	59	2.855	2.836	(0.672)	99102	2.50000	2.68(H)
22	Freon 113	101	2.836	2.820	(0.667)	72556	1.00000	1.15

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06818.d
Report Date: 13-Mar-2017 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.852	2.839	(0.671)	74253	1.00000	1.12(H)
	25 Methylene chloride	49	2.881	2.865	(0.678)	202534	5.00000	5.45(H)
	26 Allyl Chloride	76	2.887	2.877	(0.679)	17706	2.50000	2.34(Q)
	27 Carbon Disulfide	76	2.977	2.967	(0.700)	76852	1.00000	1.13
	28 trans-1,2-dichloroethene	96	3.096	3.083	(0.728)	25216	1.00000	1.11(Q)
	29 Methyl Tert Butyl Ether	73	3.137	3.115	(0.738)	178962	2.50000	3.00
	30 Vinyl Acetate	43	3.201	3.185	(0.753)	44910	1.00000	0.785(H)
	31 1,1-Dichloroethane	63	3.205	3.185	(0.754)	57950	1.00000	1.12
$	32 Hexane-d14(S)	66	3.282	3.266	(0.772)	1872643	10.0000	10.1
	33 Methyl Ethyl Ketone	72	3.359	3.346	(0.790)	12473	1.00000	1.12(QH)
	34 n-Hexane	57	3.359	3.343	(0.790)	45198	1.00000	1.13(Q)
	35 Di-isopropyl Ether	45	3.391	3.368	(0.798)	113225	1.00000	1.16
	36 cis-1,2-Dichloroethene	96	3.471	3.452	(0.817)	29457	1.00000	1.14(Q)
	37 Ethyl Acetate	43	3.503	3.490	(0.824)	65812	1.00000	1.03(Q)
	38 Ethyl Tert-Butyl Ether	59	3.583	3.564	(0.843)	234007	2.50000	2.64
	39 Chloroform	83	3.567	3.548	(0.839)	76332	1.00000	1.17
	40 Tetrahydrofuran	42	3.734	3.718	(0.878)	35735	1.00000	1.10(H)
	41 1,1,1-Trichloroethane	97	3.901	3.895	(0.918)	71639	1.00000	1.10
	42 1,2-Dichloroethane	62	3.914	3.904	(0.921)	52011	1.00000	1.10
	43 Benzene	78	4.110	4.097	(0.967)	86576	1.00000	1.13
	45 Carbon tetrachloride	117	4.122	4.113	(0.970)	63498	1.00000	1.03
	44 Cyclohexane	56	4.126	4.119	(0.971)	48661	1.00000	1.23(Q)
	46 Tert Amyl Methyl Ether	73	4.257	4.241	(1.002)	138989	1.00000	1.02(Q)
*	47 1,4-Difluorobenzene	114	4.251	4.238	(1.000)	3487514	10.0000	
	48 2,2,4-Trimethylpentane	57	4.376	4.366	(1.029)	408650	2.50000	3.09
	49 Heptane	43	4.495	4.479	(1.057)	68579	1.00000	1.14
	50 1,2-Dichloropropane	63	4.559	4.546	(1.072)	38655	1.00000	1.09
	51 Trichloroethene	130	4.575	4.565	(1.076)	48814	1.00000	1.16
	52 Methyl methacrylate	69	4.665	4.662	(1.097)	28827	1.00000	1.04
	53 Bromodichloromethane	83	4.665	4.655	(1.097)	80824	1.00000	1.11
	54 1,4-Dioxane	88	4.742	4.719	(1.115)	3847	1.00000	0.664
	55 Methylcyclohexane	98	4.963	4.947	(1.168)	17734	1.00000	1.09
	56 Methyl Isobutyl Ketone	43	5.117	5.101	(1.204)	225353	2.50000	2.62
	57 cis-1,3-Dichloropropene	75	5.130	5.130	(1.207)	50326	1.00000	1.05
	58 trans-1,3-Dichloropropene	75	5.505	5.502	(1.295)	40683	1.00000	0.977(H)
$	59 Toluene-d8 (S)	98	5.566	5.557	(1.309)	3556584	10.0000	10.2
	60 Toluene	91	5.634	5.627	(1.325)	113067	1.00000	1.10
	61 1,1,2-Trichloroethane	97	5.643	5.634	(1.328)	42023	1.00000	1.05
	62 Methyl Butyl Ketone	43	5.907	5.897	(0.840)	207974	2.50000	2.91
	63 n-Octane	43	6.054	6.048	(0.861)	83240	1.00000	1.12
	64 Dibromochloromethane	129	6.125	6.115	(0.871)	73394	1.00000	0.996
	65 1,2-Dibromoethane	107	6.340	6.340	(0.902)	69091	1.00000	1.08(M)
	66 Tetrachloroethene	166	6.407	6.394	(0.911)	75134	1.00000	1.14
*	67 Chlorobenzene - d5	117	7.030	7.026	(1.000)	2992830	10.0000	
	68 Chlorobenzene	112	7.071	7.065	(1.006)	86276	1.00000	1.07(Q)
	69 Ethyl Benzene	91	7.315	7.312	(1.041)	143578	1.00000	1.09
	70 m&p-Xylene	91	7.456	7.453	(1.061)	226254	2.00000	2.08
	71 Bromoform	173	7.822	7.829	(1.113)	51685	1.00000	0.784
	72 n-Nonane	43	7.858	7.858	(1.118)	75487	1.00000	1.10
	73 Styrene	104	7.864	7.874	(1.119)	71517	1.00000	1.07
	74 o-Xylene	91	7.928	7.925	(1.128)	109841	1.00000	1.01
	75 1,1,2,2-Tetrachloroethane	83	8.194	8.191	(1.166)	73022	1.00000	1.02
	76 Isopropylbenzene	105	8.496	8.496	(1.209)	145298	1.00000	1.08
	77 N-Propylbenzene	91	9.054	9.051	(1.288)	153545	1.00000	1.09

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06818.d
Report Date: 13-Mar-2017 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.228	9.228	(1.313)	121452	1.00000	1.05(M)
79	1,3,5-Trimethylbenzene	105	9.318	9.318	(1.325)	113750	1.00000	1.04(M)
80	n-Decane	57	9.719	9.719	(2.286)	60146	1.00000	1.06
81	Tert-Butyl Benzene	119	9.809	9.809	(1.395)	106960	1.00000	1.01
82	1,2,4-Trimethylbenzene	105	9.825	9.825	(1.398)	116341	1.00000	1.03
83	1,3-Dichlorobenzene	146	10.123	10.133	(1.440)	69644	1.00000	0.993(H)
84	Sec- Butylbenzene	105	10.149	10.146	(1.444)	139939	1.00000	1.06
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.450)	1694081	10.0000	9.24
86	Benzyl Chloride	91	10.219	10.219	(1.454)	61999	1.00000	0.849(M)
87	1,4-Dichlorobenzene	146	10.232	10.235	(1.456)	71760	1.00000	0.980(Q)
88	p-Isopropyltoluene	119	10.377	10.370	(1.476)	123380	1.00000	1.05
89	1,2,3-Trimethylbenzene	105	10.418	10.415	(1.482)	96185	1.00000	1.05
90	1,2-Dichlorobenzene	146	10.701	10.704	(1.522)	62453	1.00000	0.961
91	N-Butylbenzene	91	10.964	10.970	(1.560)	102553	1.00000	1.06
92	1,2-Dibromo-3-Chloropropane	157	11.532	11.541	(1.640)	13649	1.00000	0.920(QM)
93	1,2,4-Trichlorobenzene	180	12.844	12.851	(1.827)	23834	1.00000	1.36(M)
94	Naphthalene	128	12.969	12.966	(1.845)	41089	1.00000	1.31(M)
95	Hexachlorobutadiene	225	13.220	13.223	(1.880)	33801	1.00000	1.30

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06818.d
Report Date: 13-Mar-2017 10:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06818.d
Lab Smp Id: CAL4
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3487514	-7.92
67 Chlorobenzene - d	3280875	1968525	4593225	2992830	-8.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	0.07
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06818.D

Date : 09-MAR-2017 21:36

Client ID:

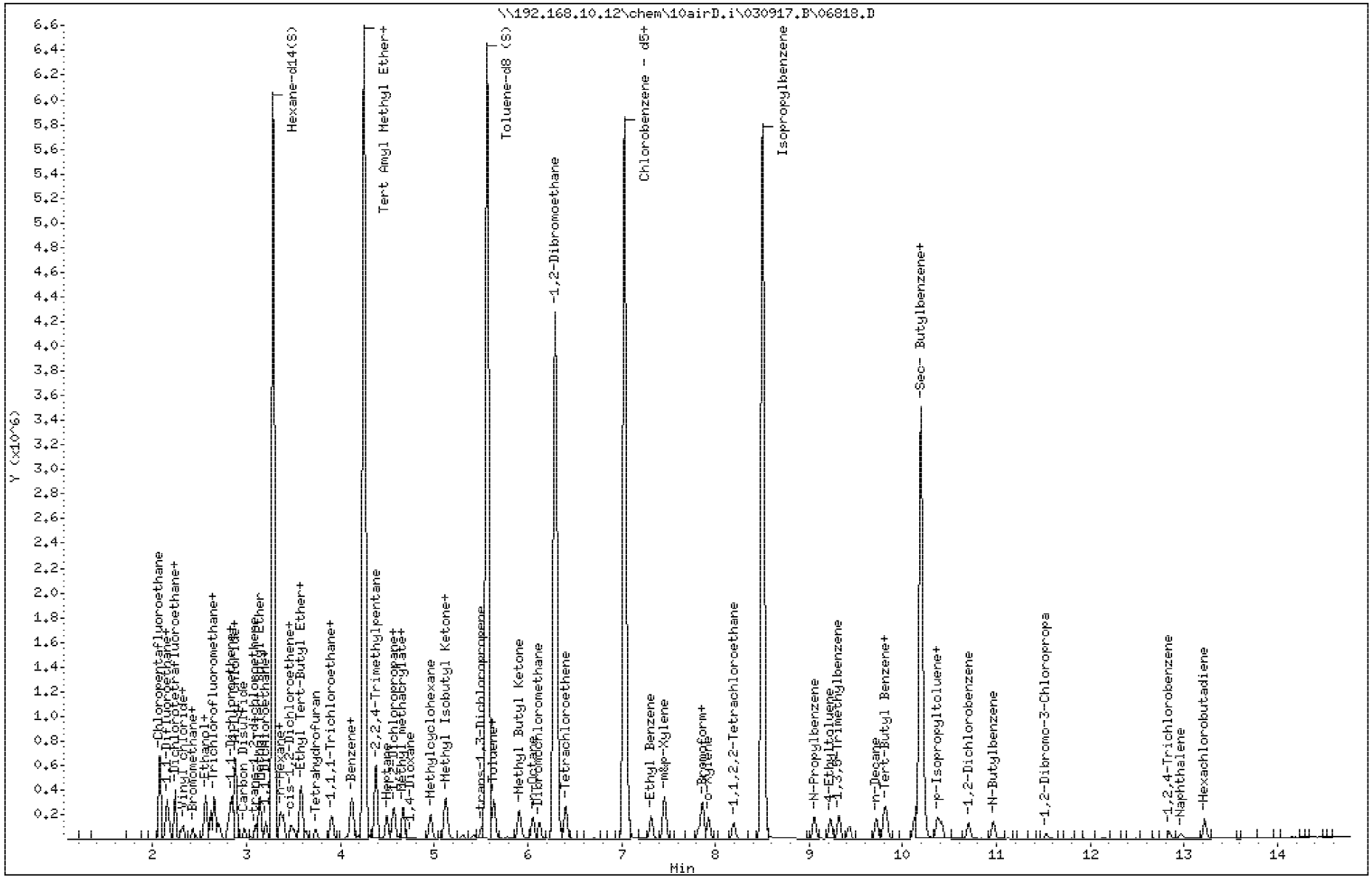
Instrument: 10airD.i

Sample Info:

Operator: EMC

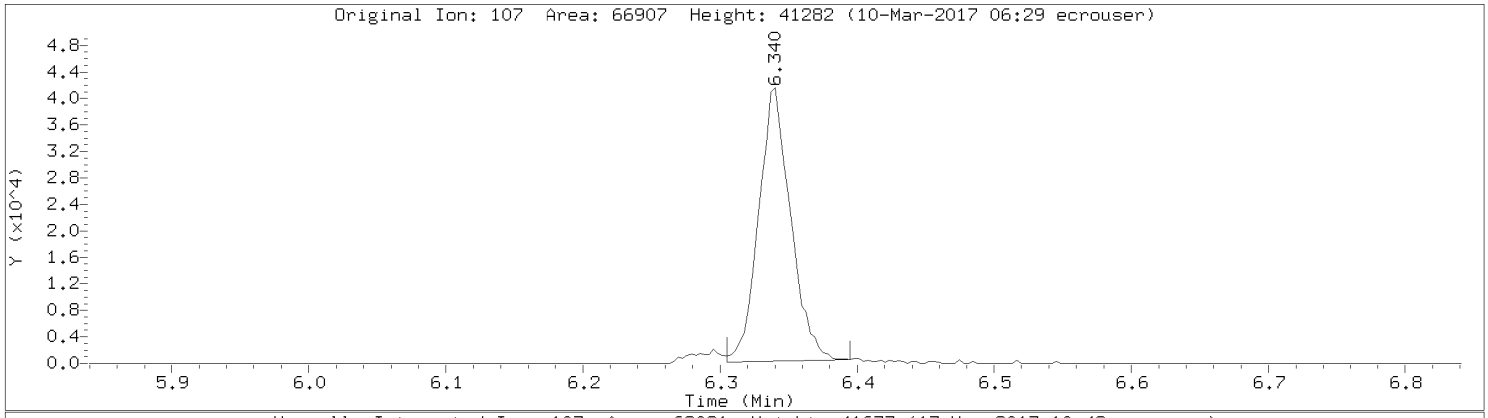
Column phase: J&W DB-5

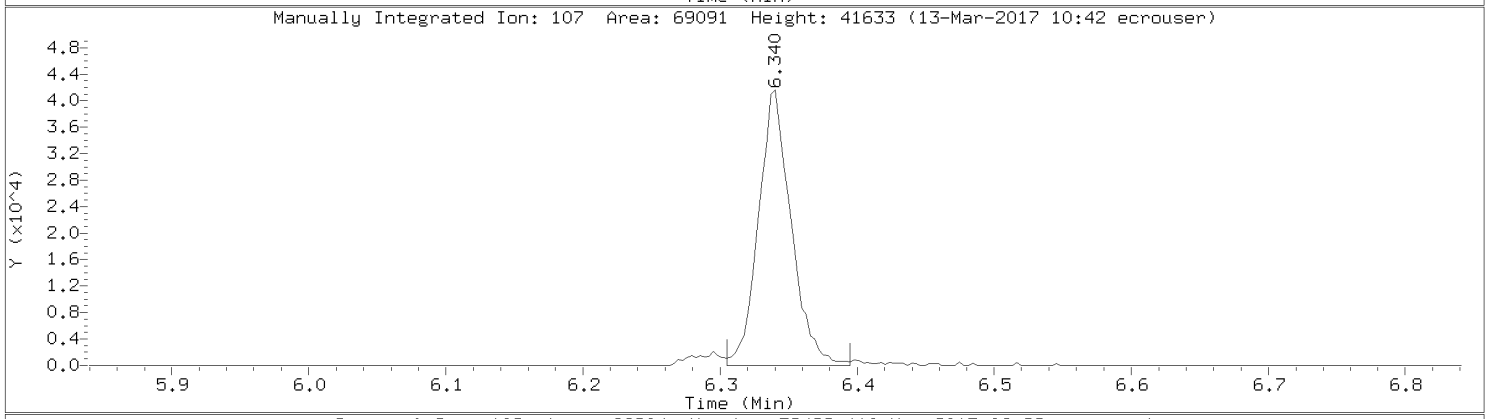
Column diameter: 0.32

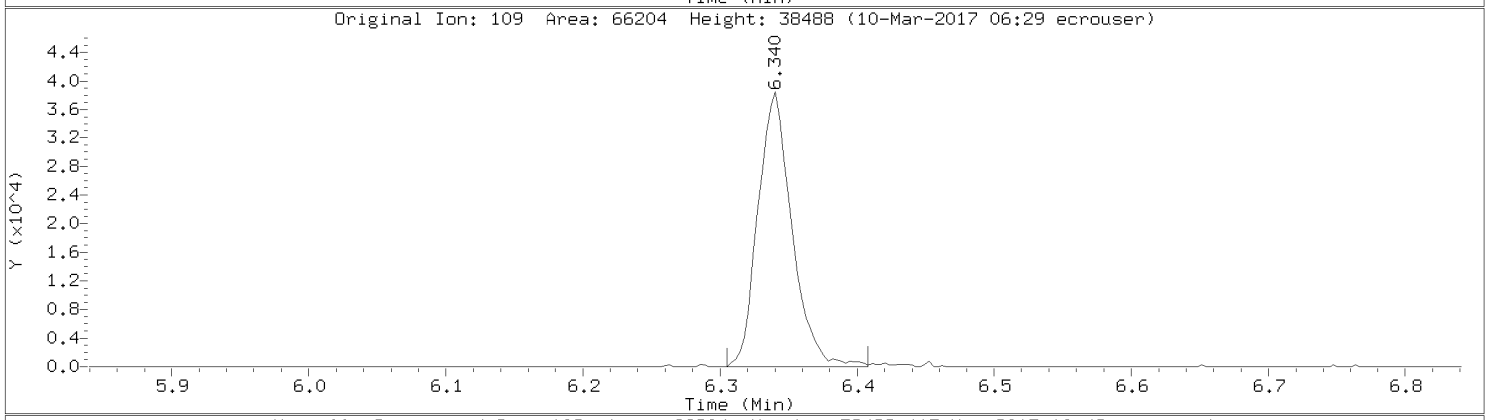


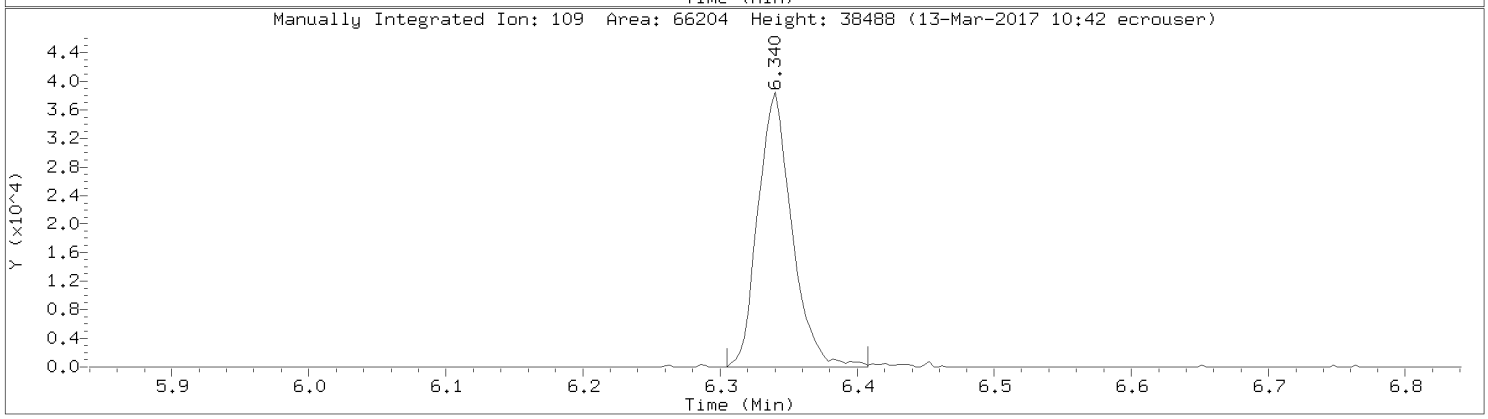
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4



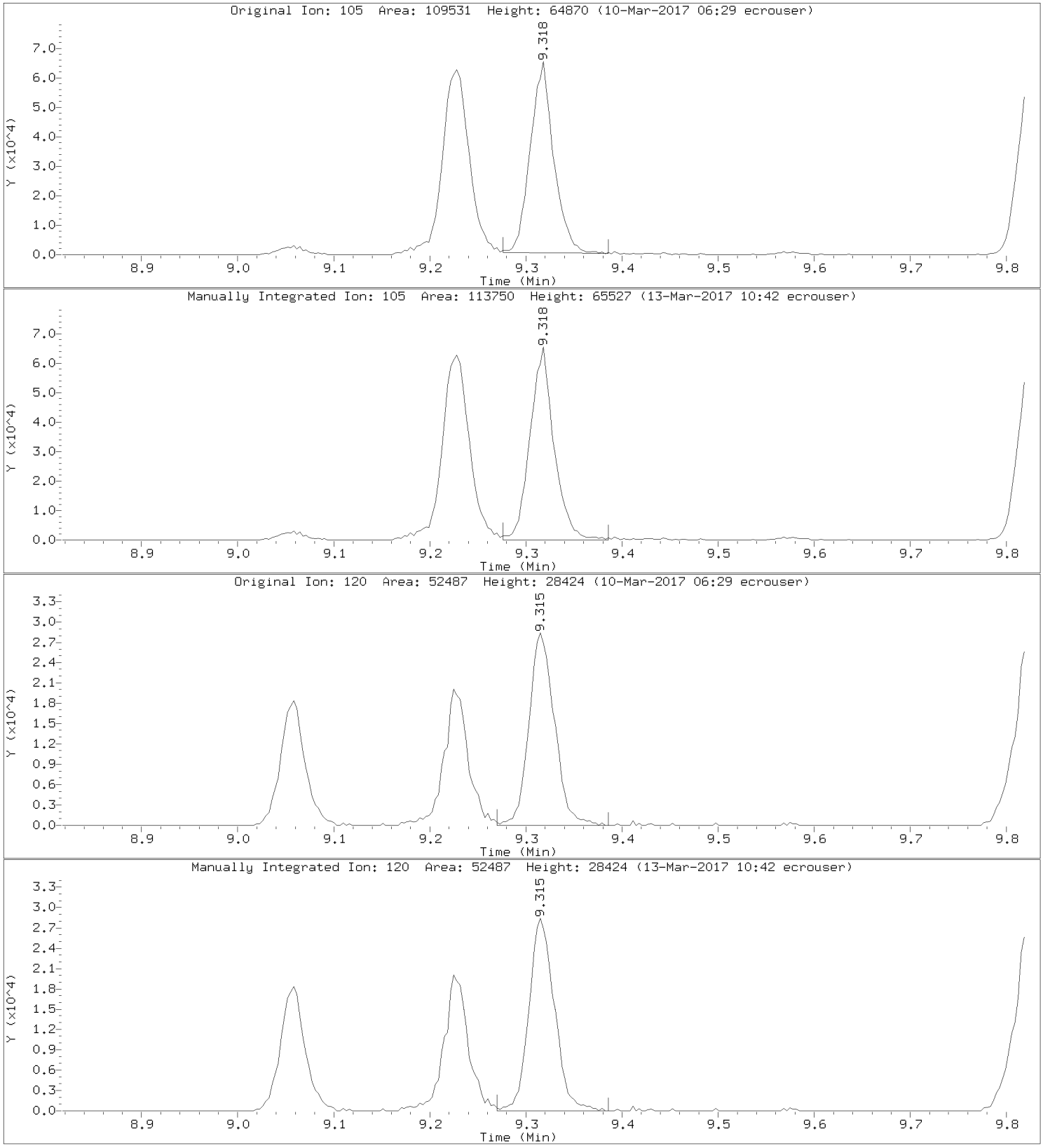






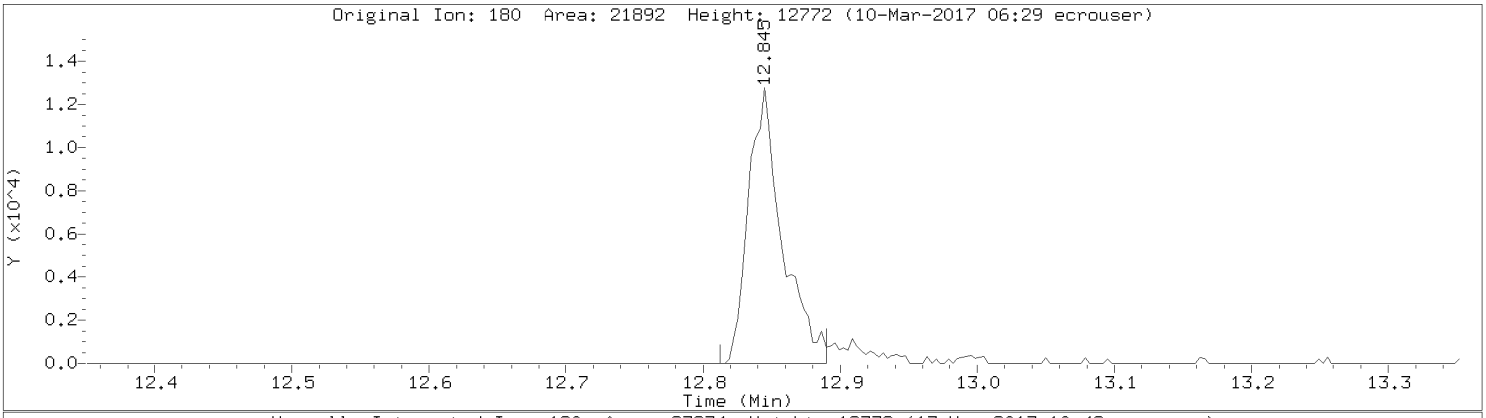
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

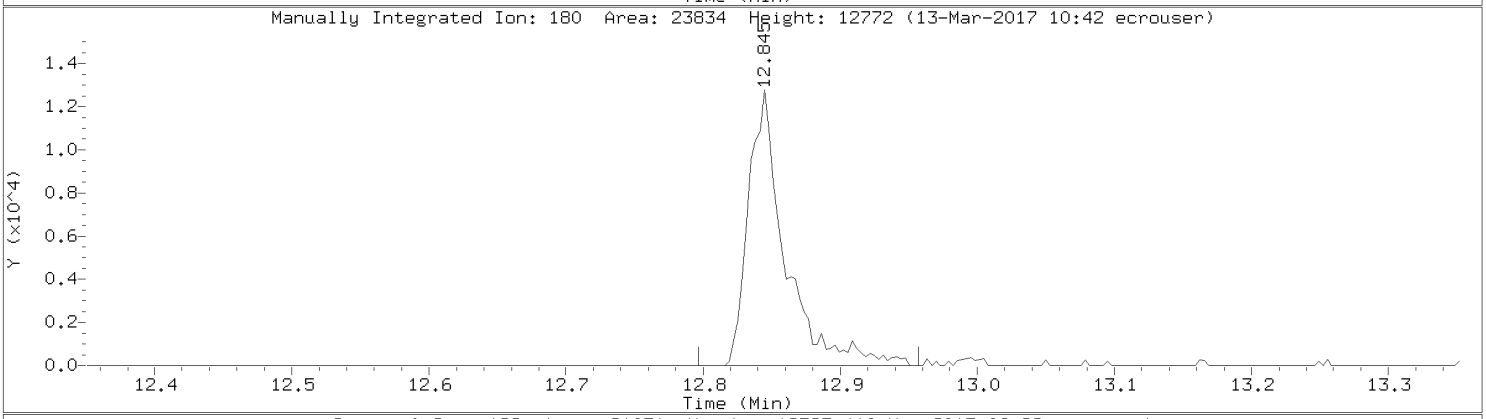
Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8

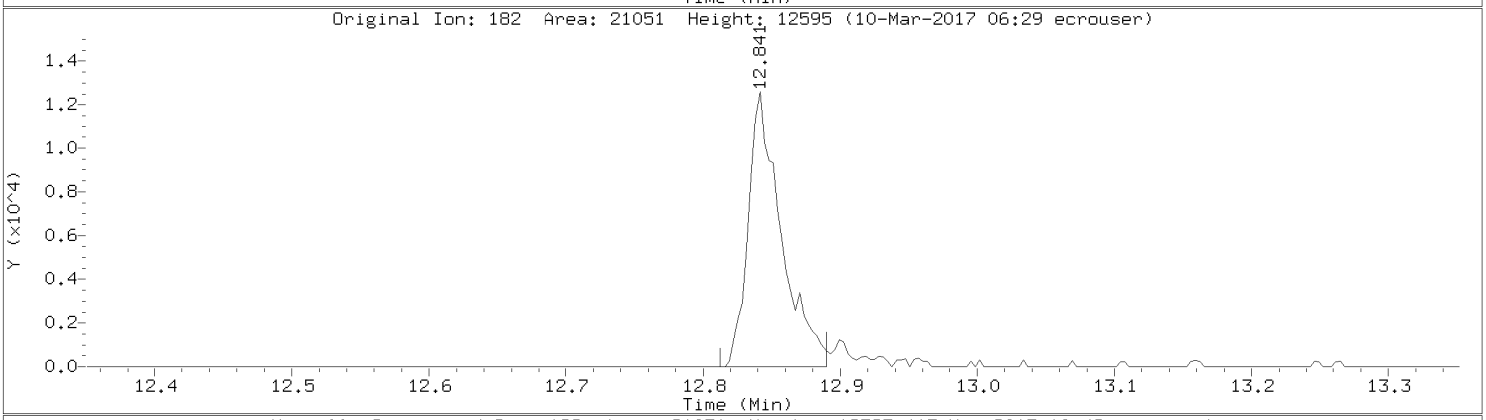


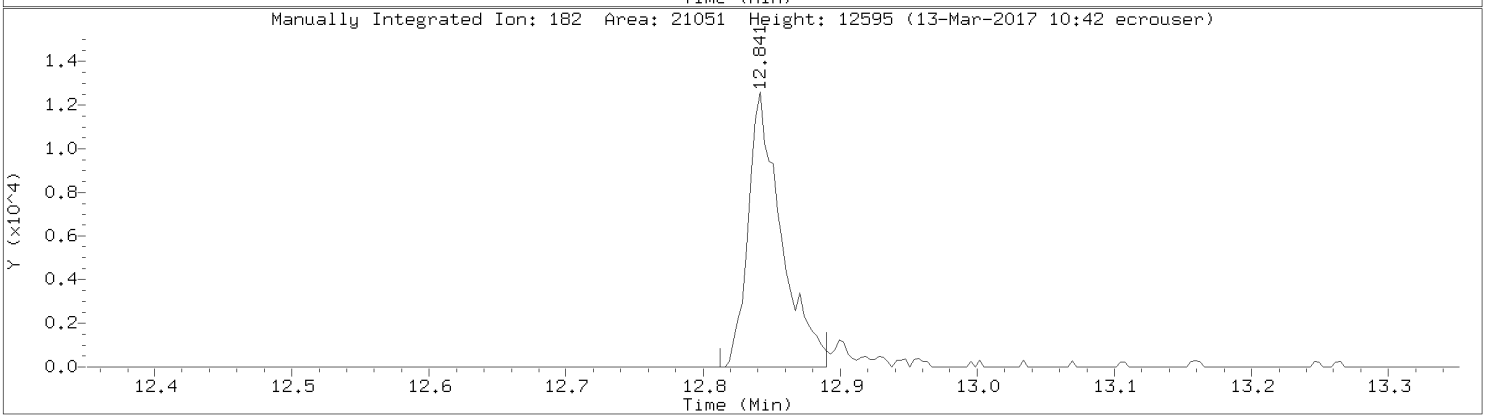
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

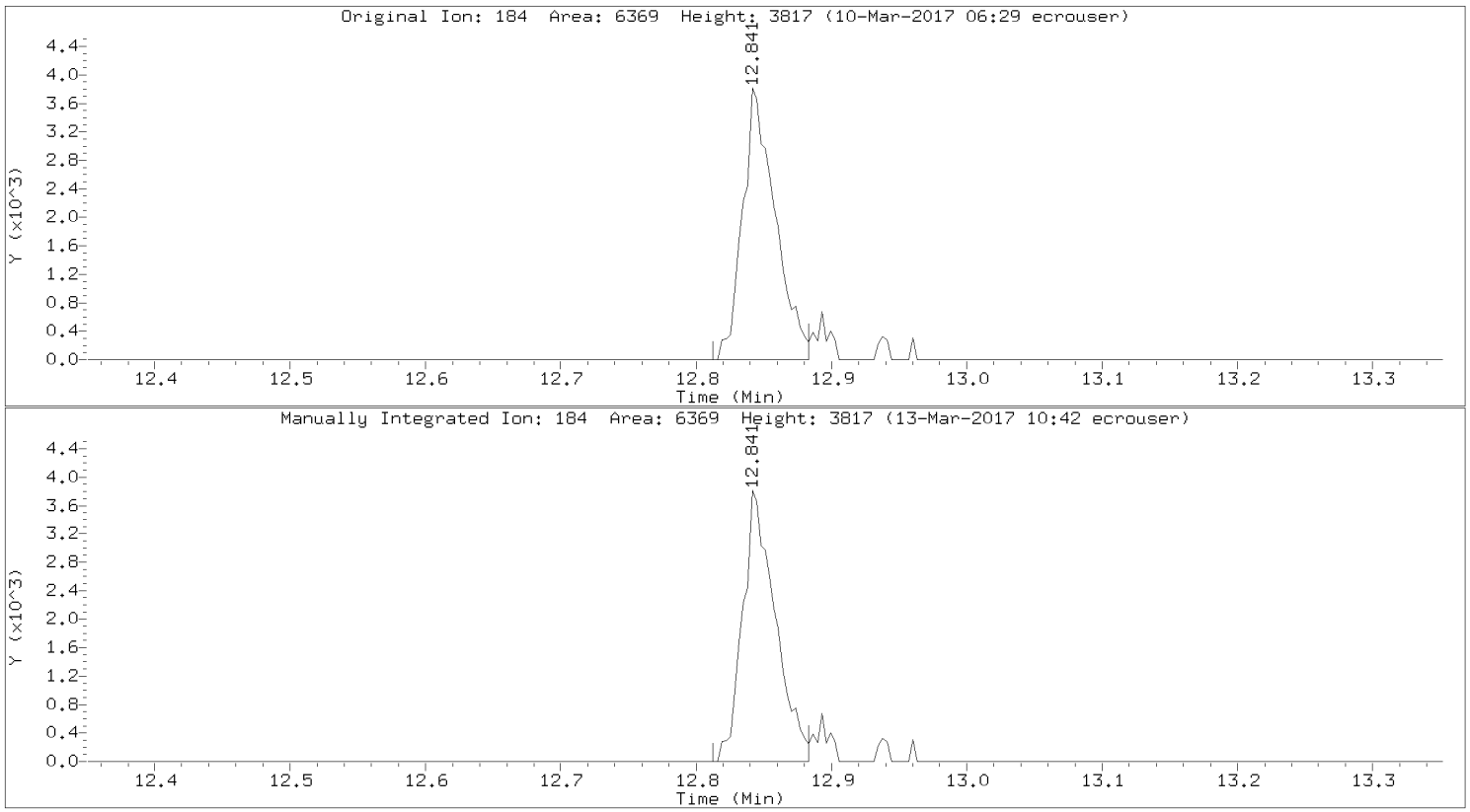






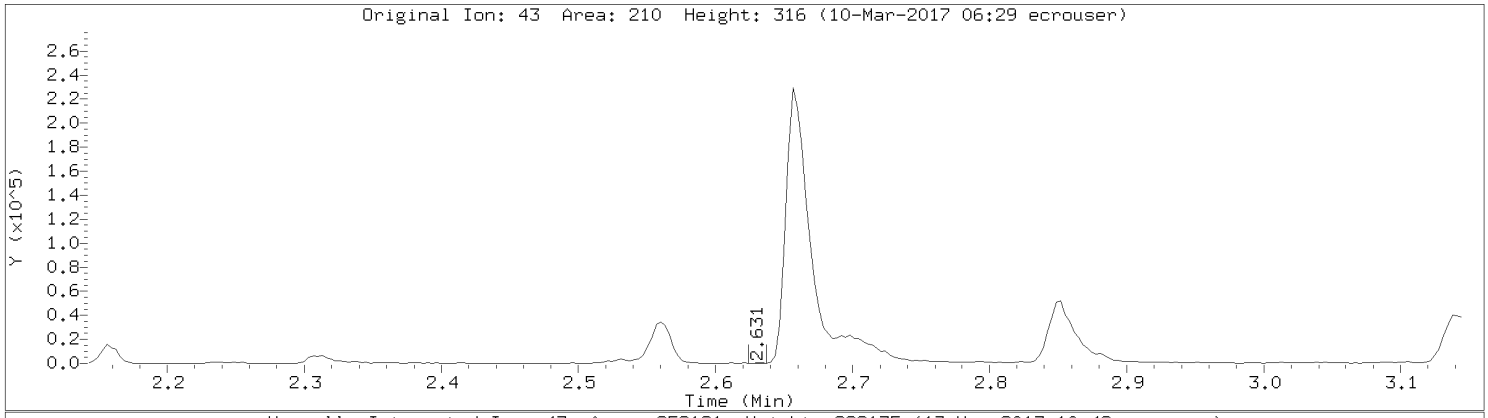


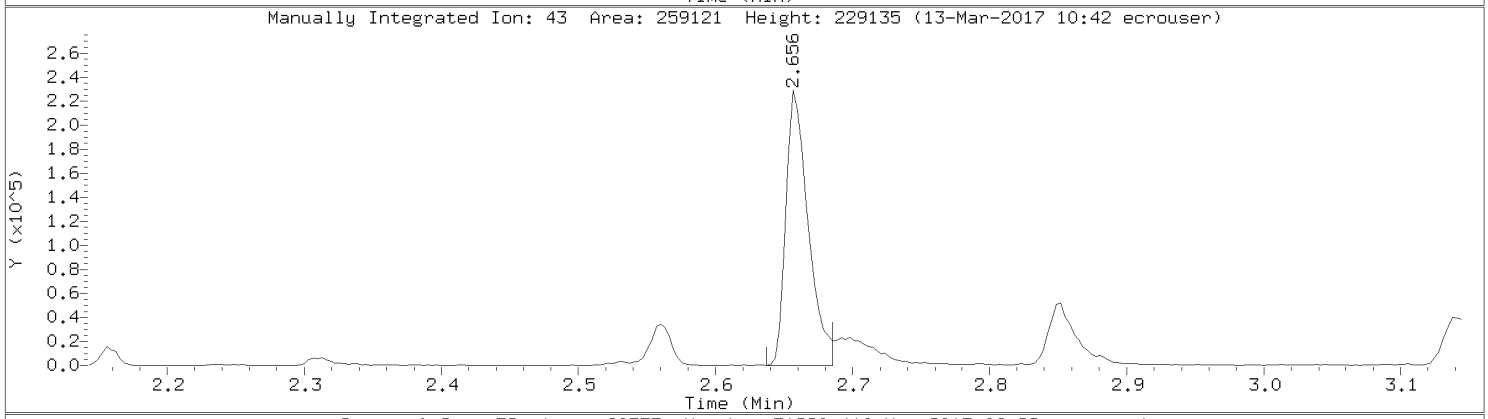
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

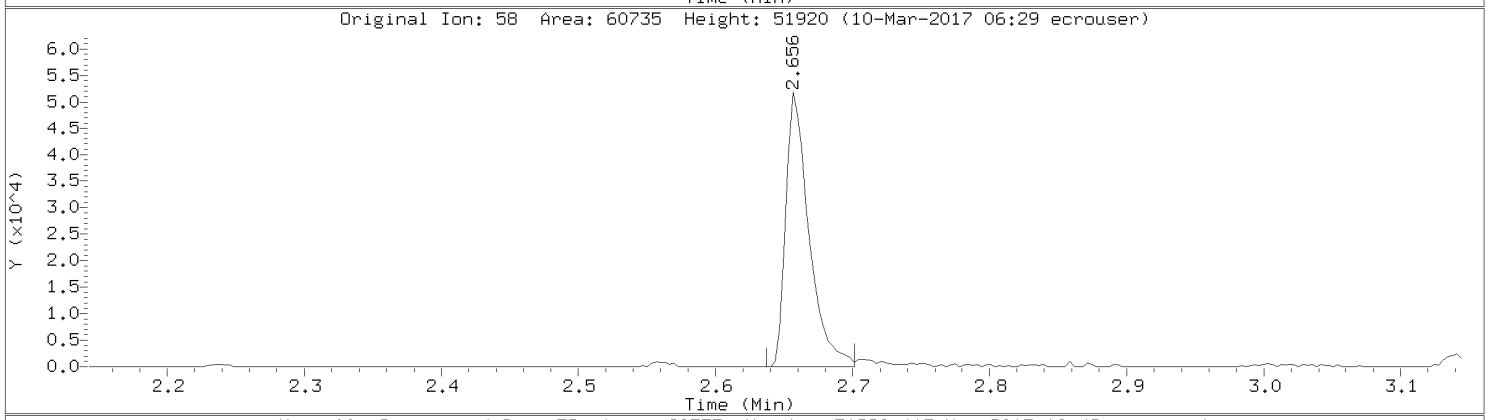


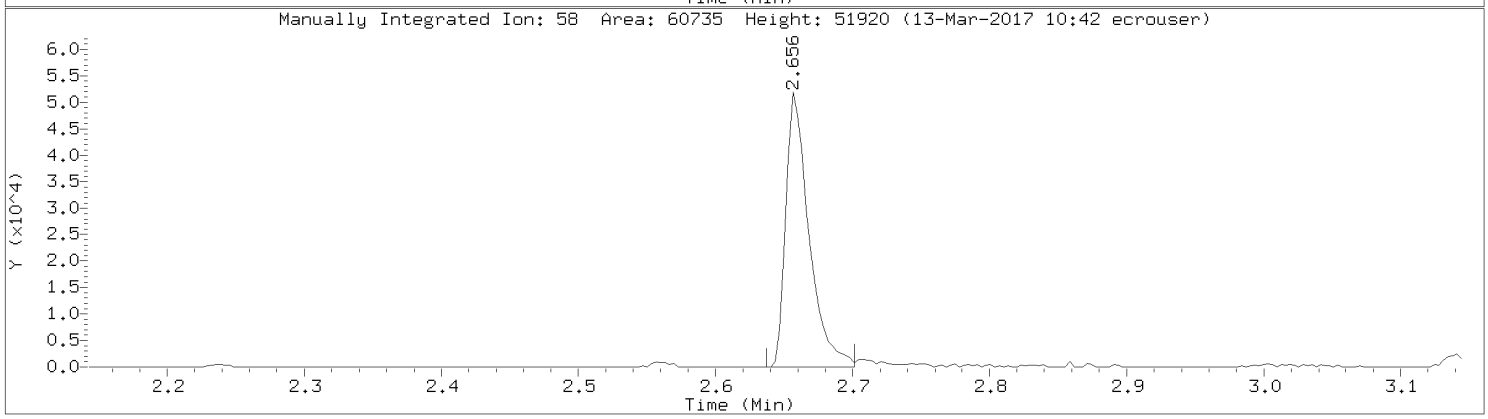
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Acetone
CAS Number: 67-64-1



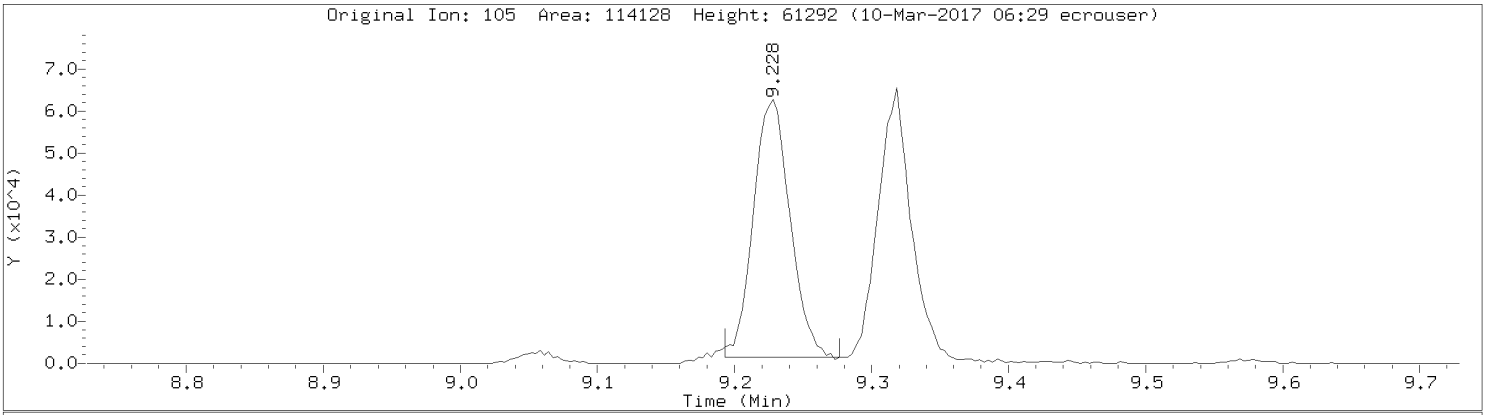


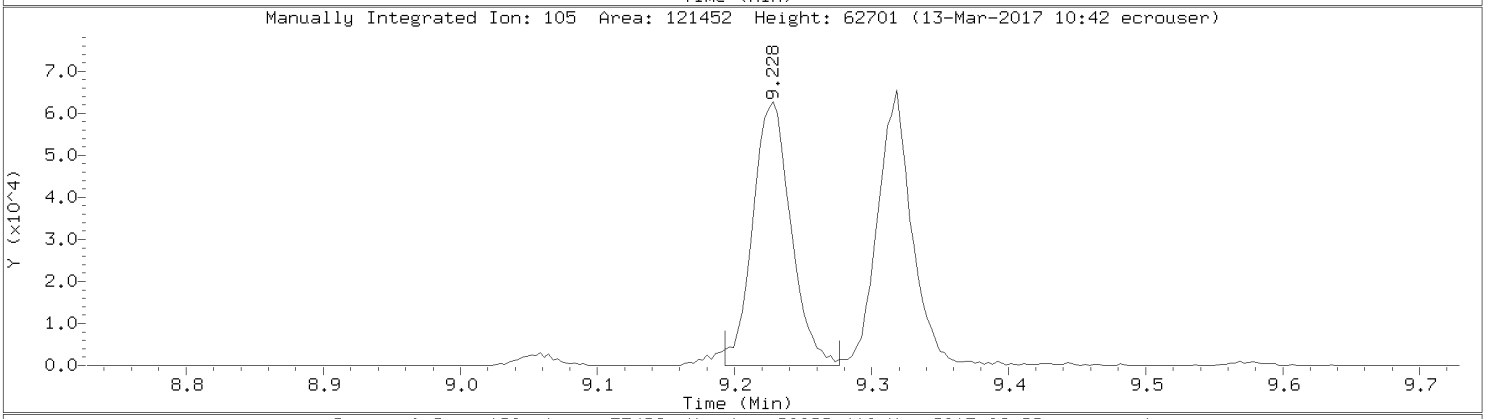


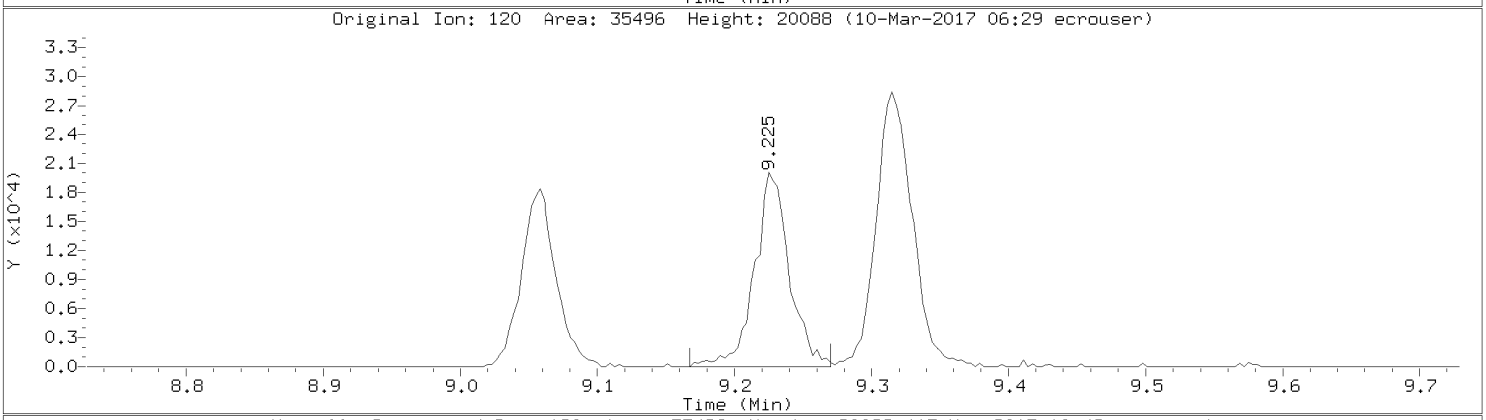


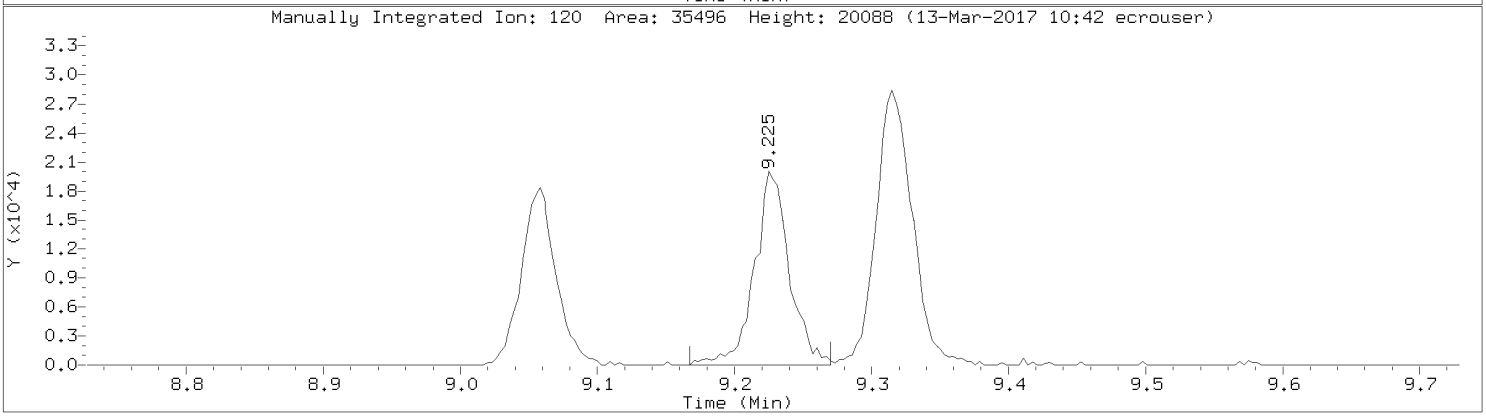
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

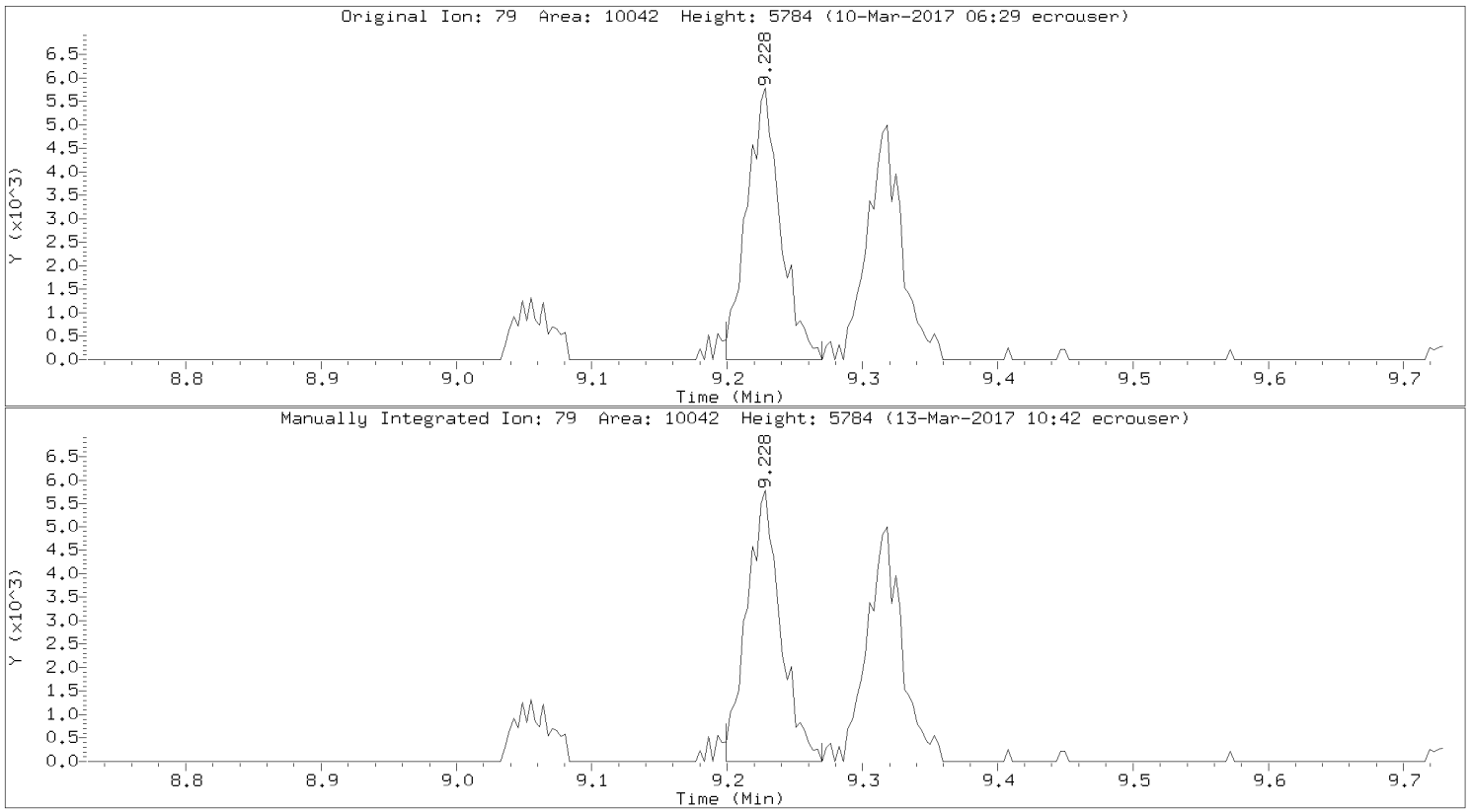






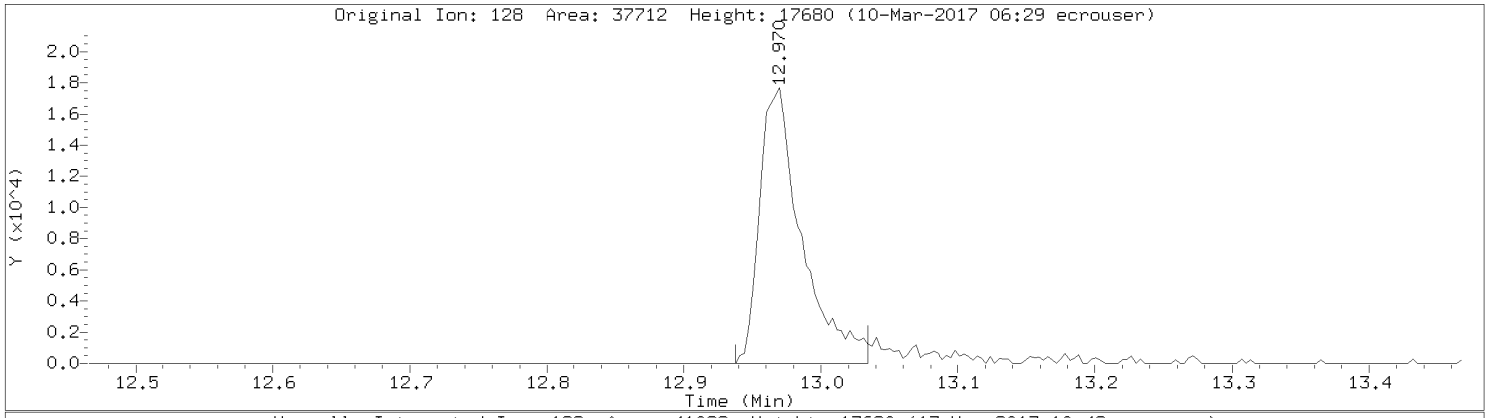


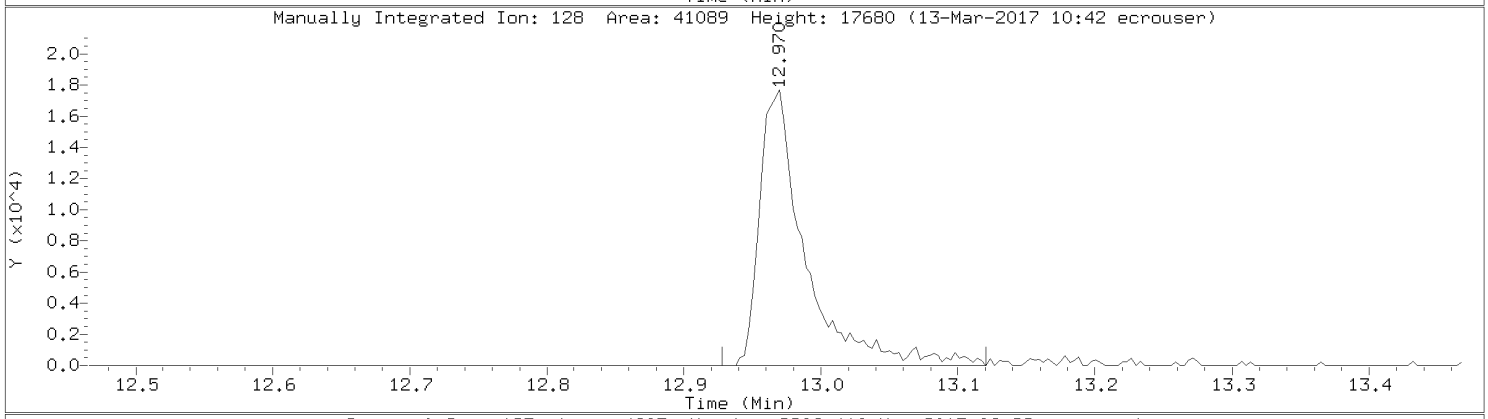
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

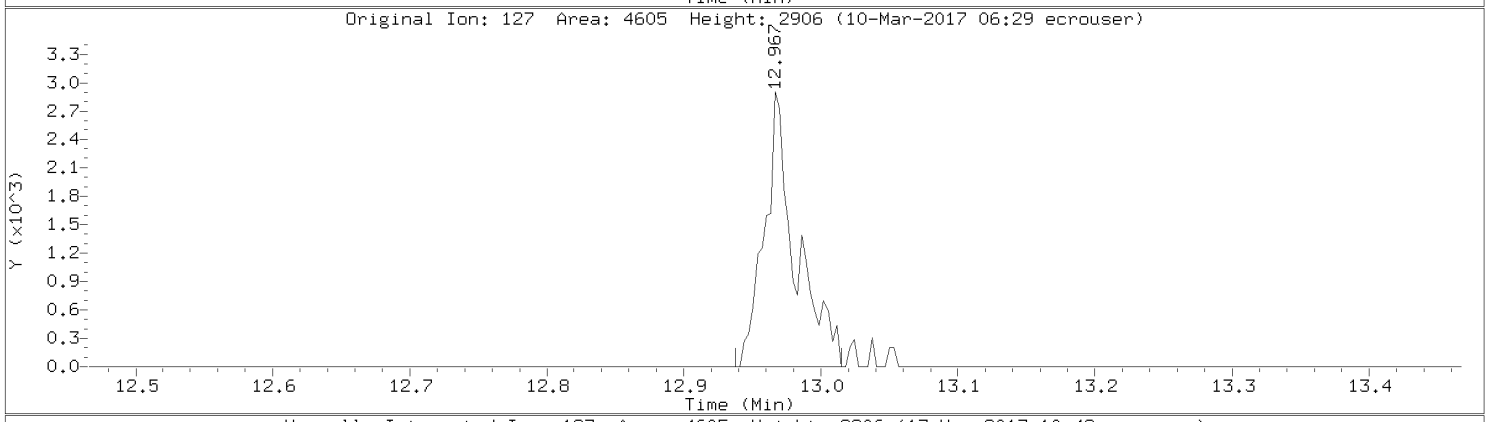


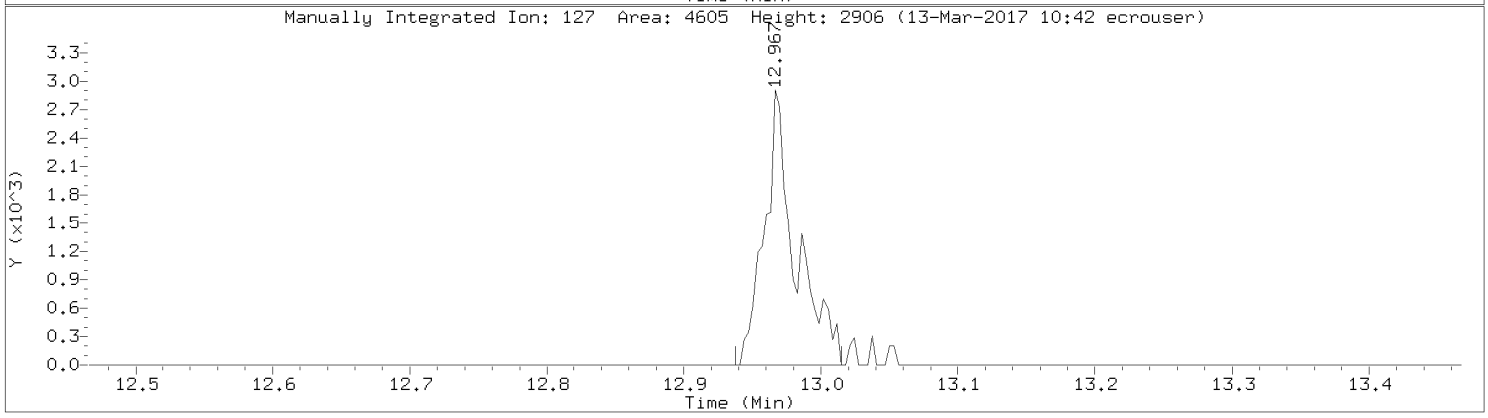
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Naphthalene
CAS Number: 91-20-3



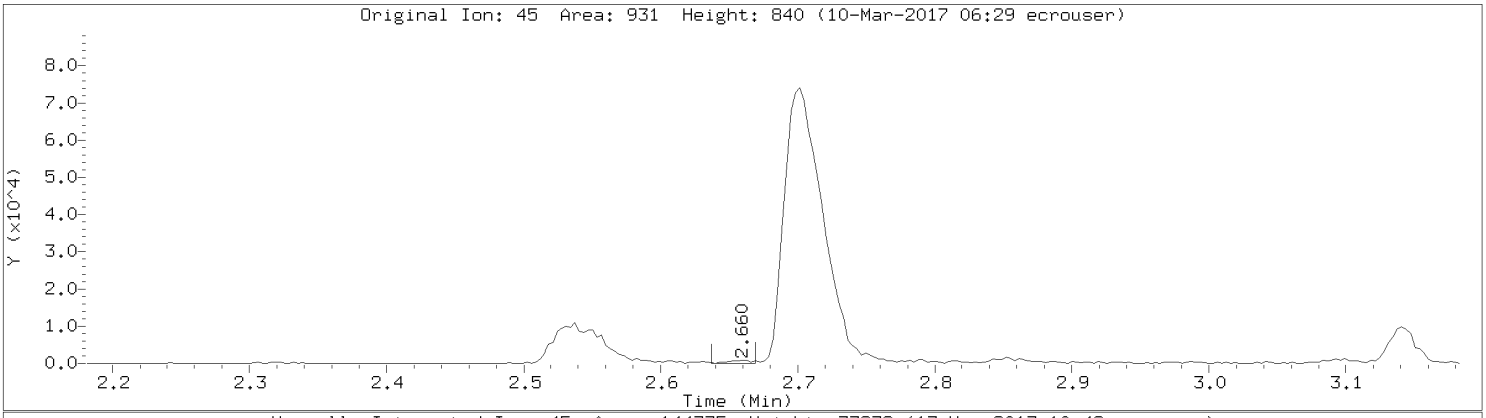


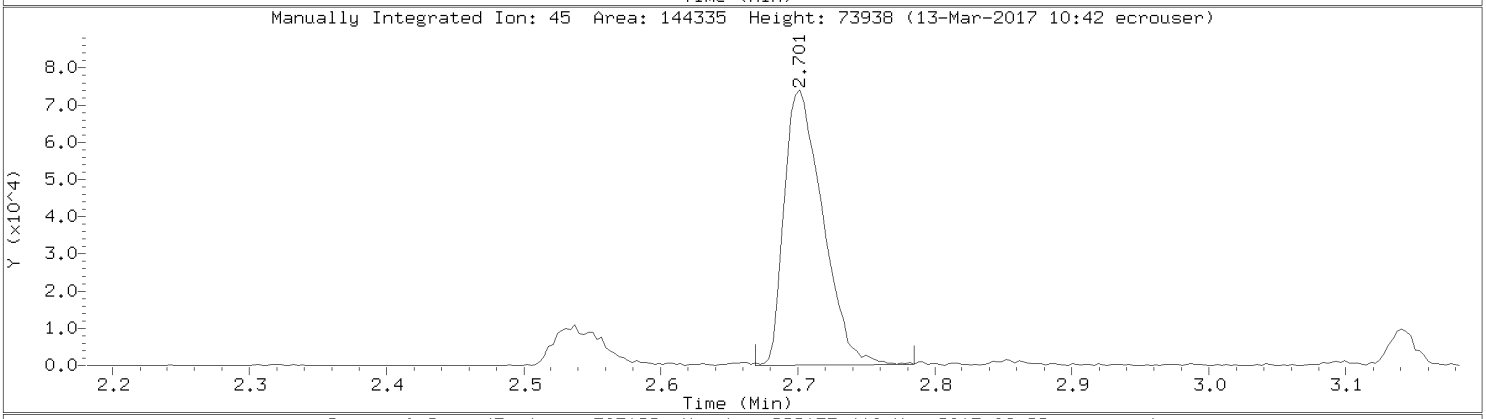


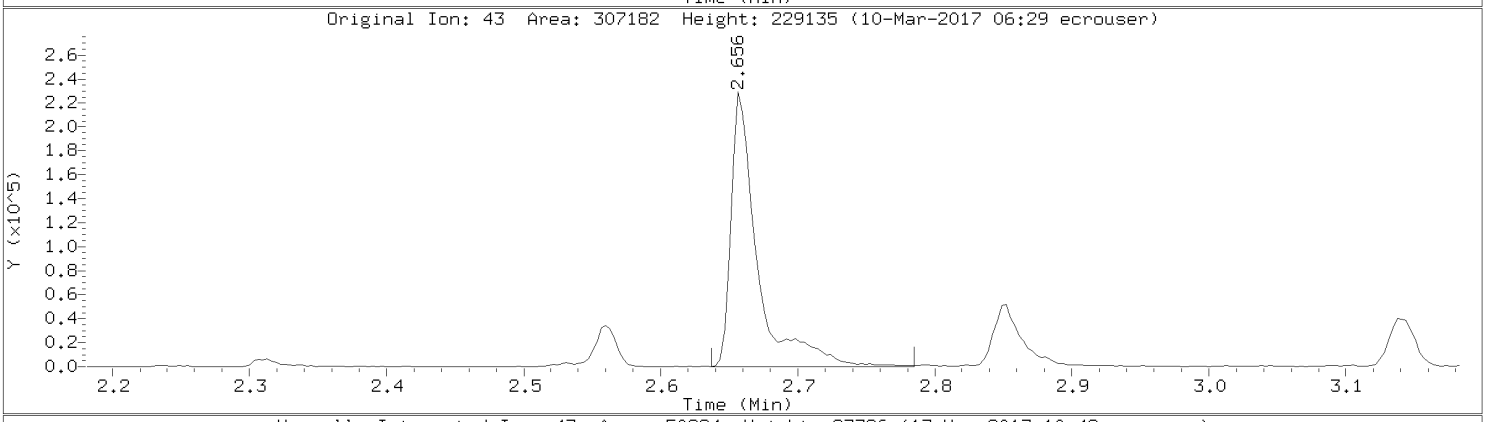


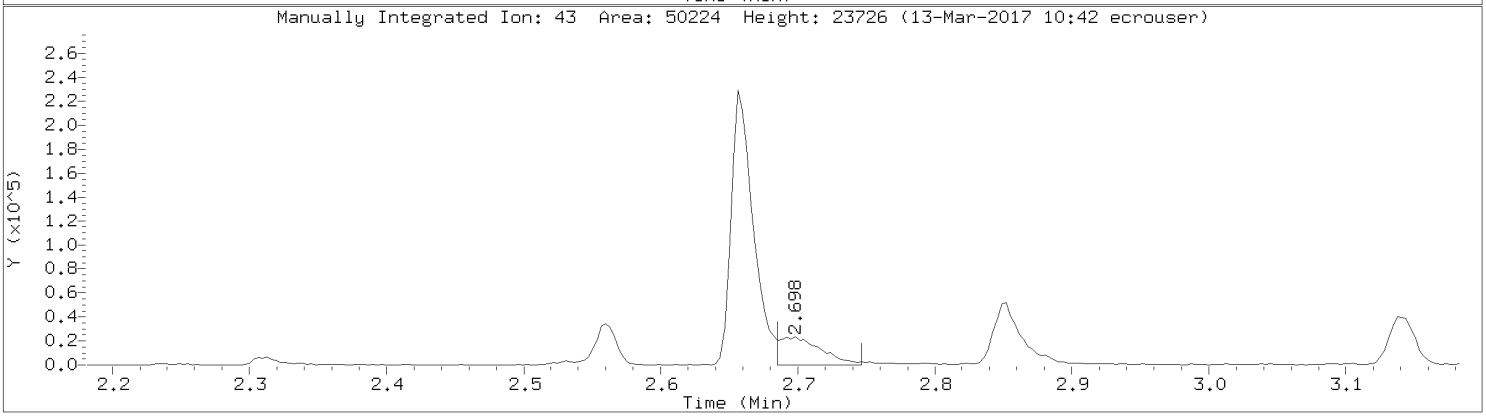
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



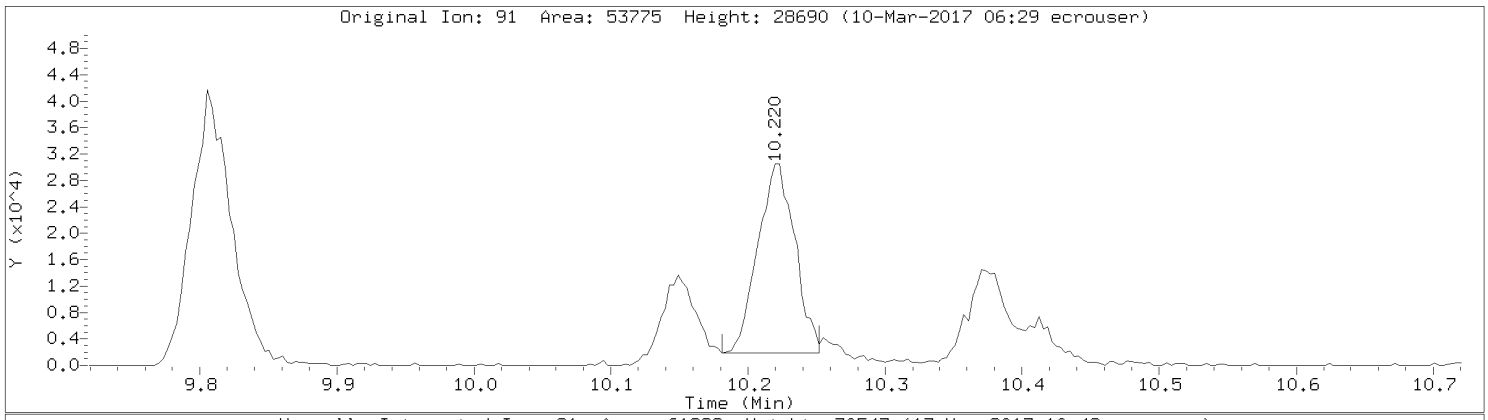


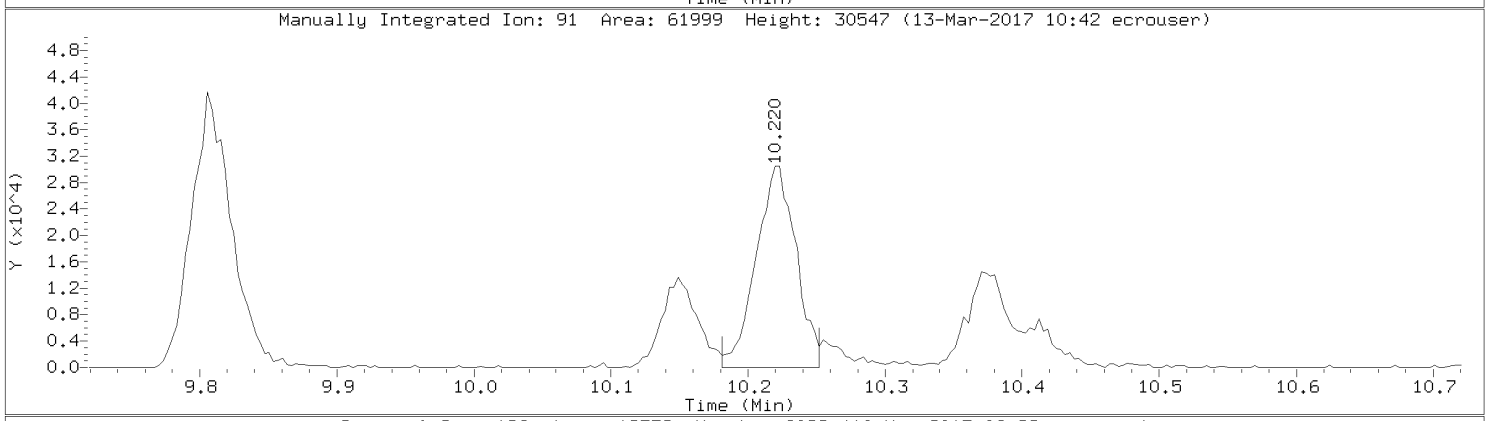


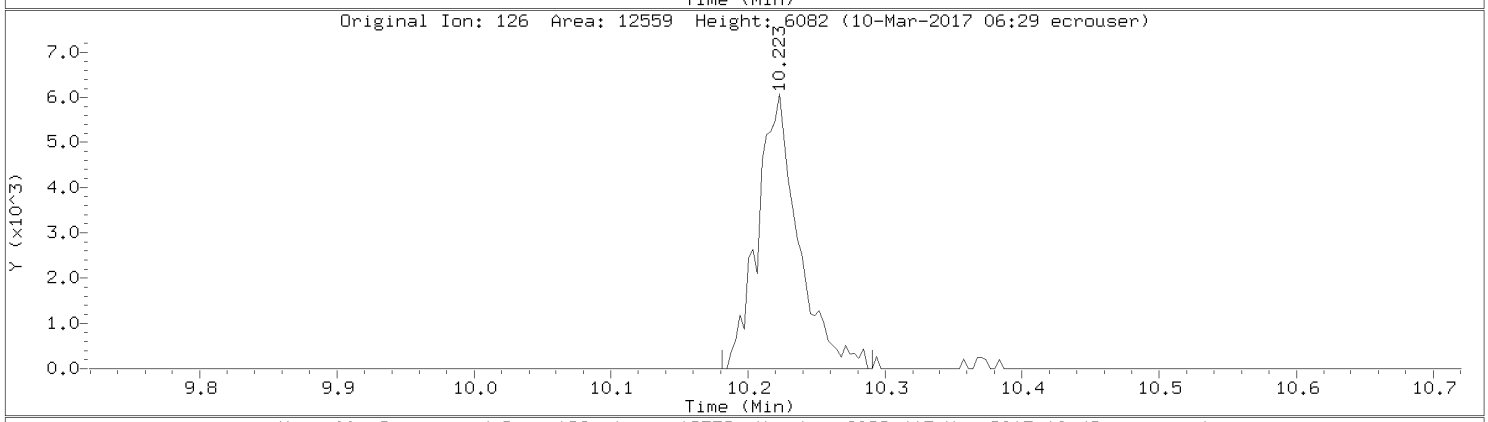


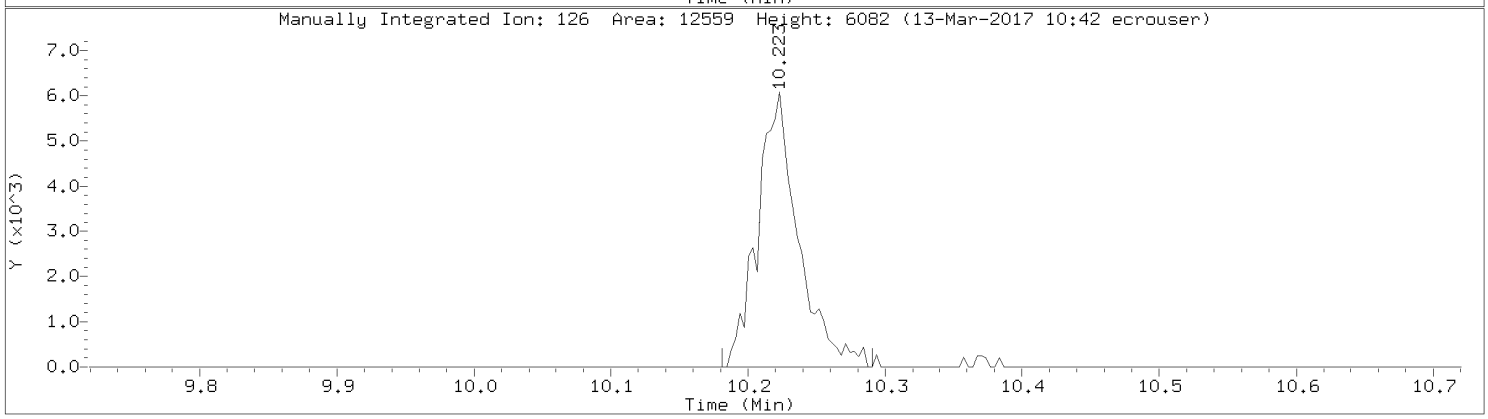
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Benzyl Chloride
CAS Number: 100-44-7



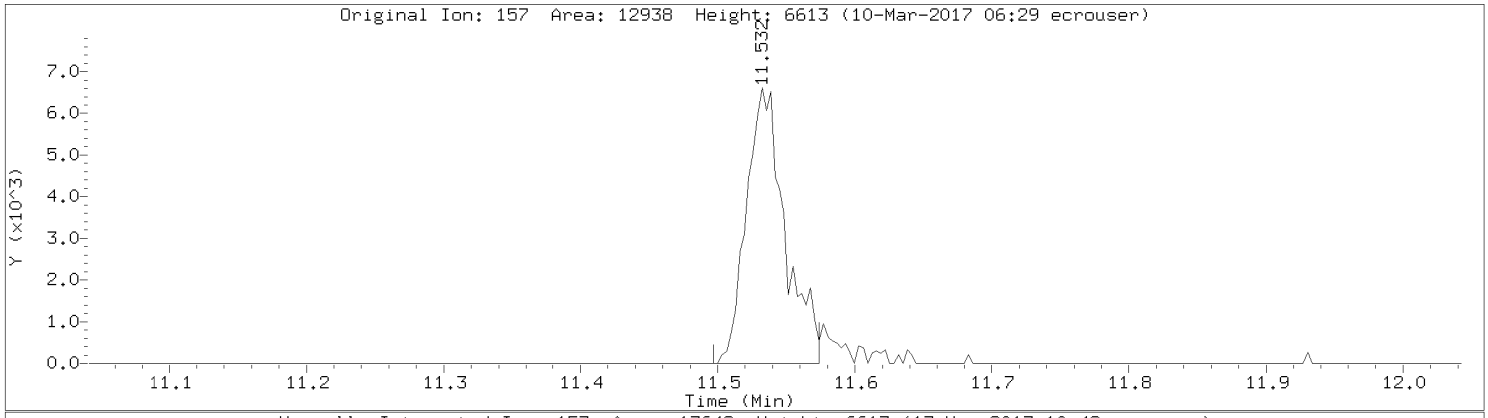


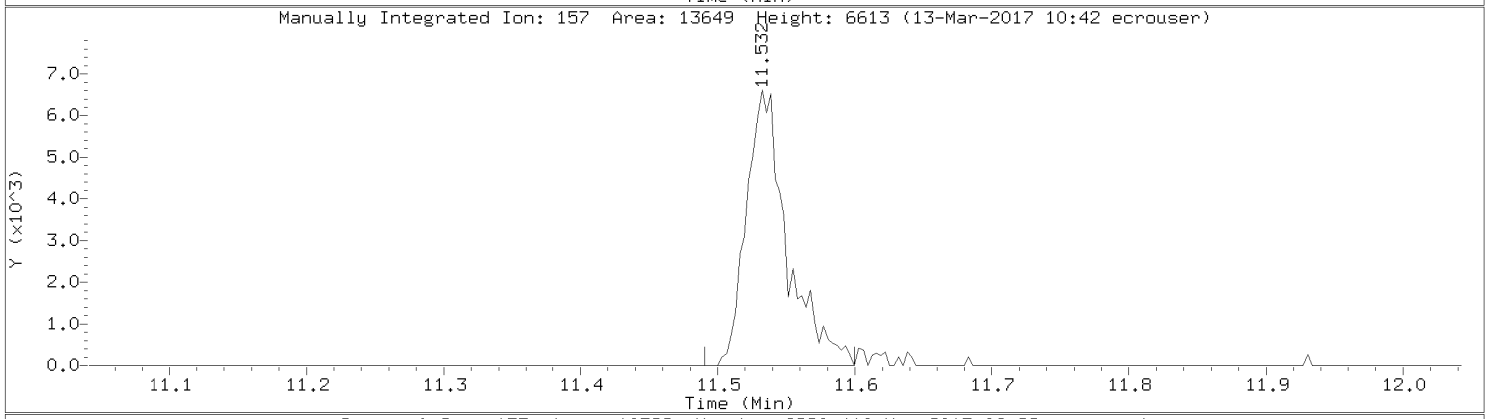


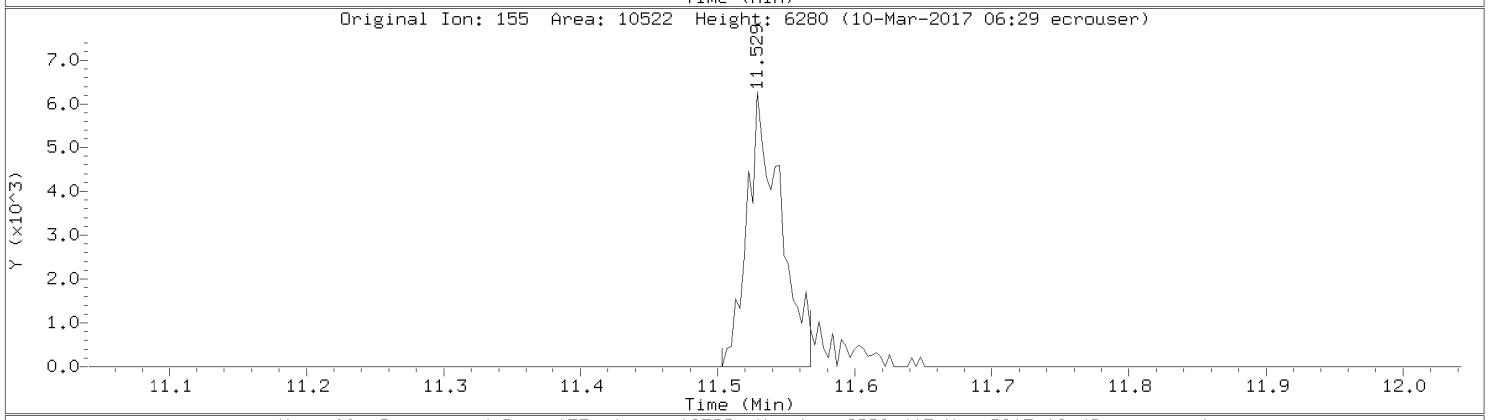


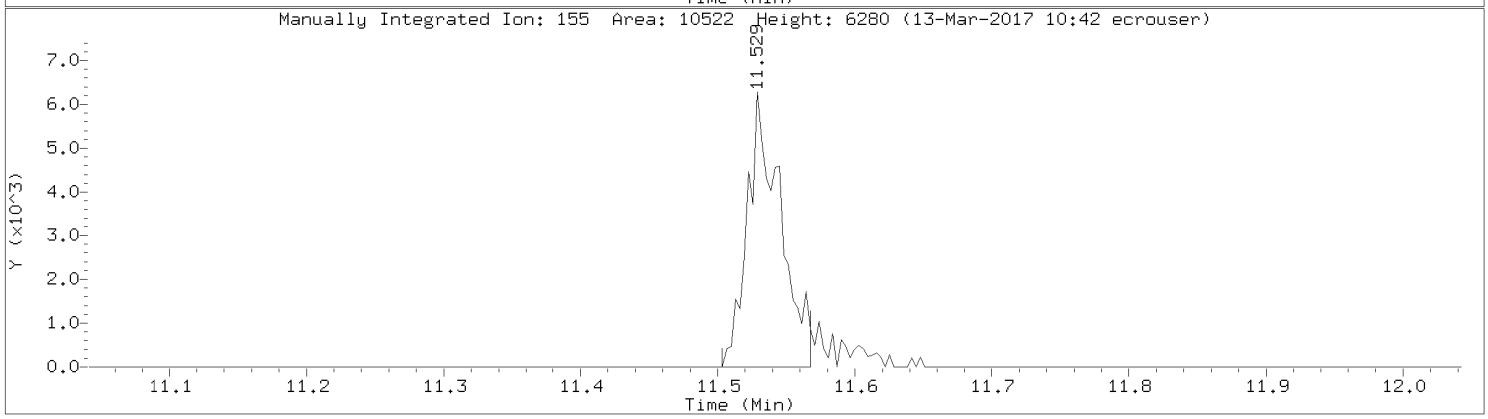
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

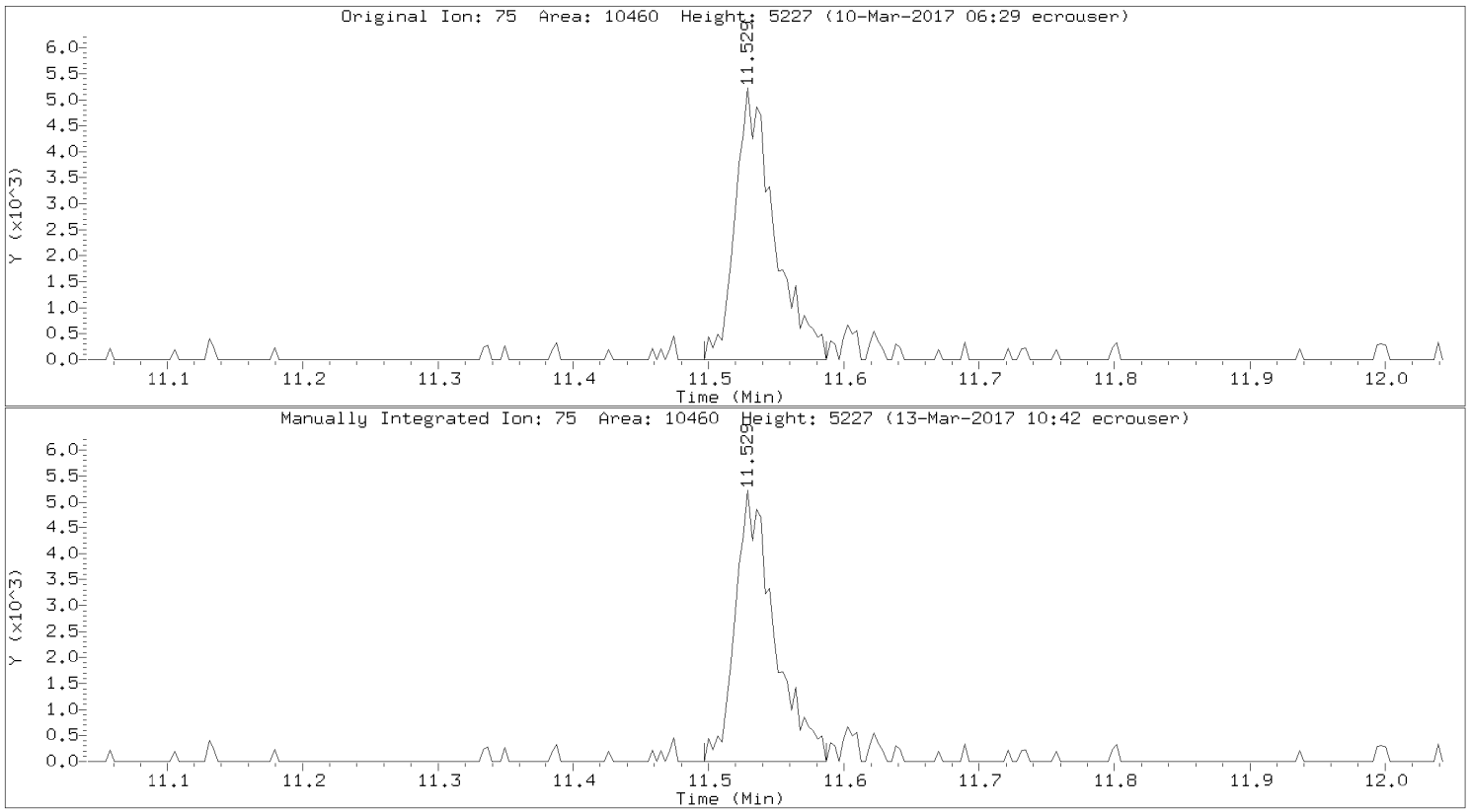








Data File: \\192.168.10.12\chem\10airD.i\030917.B/06818.d
Injection Date: 09-MAR-2017 21:36
Instrument: 10airD.i
Lab Sample ID: CAL4



Data File: \\192.168.10.12\chem\10airD.i\030917.B\06819.d
Report Date: 13-Mar-2017 10:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\030917.B\06819.d
Lab Smp Id: CAL5
Inj Date : 09-MAR-2017 22:41
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 19 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.066	2.075	(0.486)	64728	10.0000	10.0
2	1,1-Difluoroethane	65	2.114	2.120	(0.498)	180871	10.0000	9.81(Q)
3	Chlorodifluoromethane	67	2.123	2.136	(0.500)	94740	10.0000	10.4(QH)
4	Propylene	41	2.130	2.136	(0.501)	773991	10.0000	11.7
5	Dichlorodifluoromethane	85	2.152	2.155	(0.507)	855123	10.0000	10.3
6	Dichlorotetrafluoroethane	85	2.216	2.220	(0.522)	853309	10.0000	10.1
7	Chloromethane	50	2.220	2.223	(0.523)	384624	10.0000	9.85
8	Vinyl chloride	62	2.277	2.281	(0.536)	302350	10.0000	9.97(H)
9	1,3-Butadiene	54	2.303	2.306	(0.542)	209944	10.0000	9.96(Q)
10	Bromomethane	94	2.409	2.412	(0.567)	323667	10.0000	9.89
11	Chloroethane	64	2.444	2.447	(0.575)	115819	10.0000	10.1
12	Ethanol	45	2.505	2.508	(0.590)	224439	50.0000	38.6
13	Vinyl Bromide	106	2.534	2.534	(0.597)	312206	10.0000	10.2
14	Isopentane	43	2.544	2.544	(0.599)	341382	10.0000	9.41
15	Freon 123	83	2.550	2.547	(0.600)	768070	10.0000	10.0
16	Trichlorofluoromethane	101	2.605	2.601	(0.613)	881320	10.0000	10.1
17	Acrolein	56	2.608	2.621	(0.614)	231383	25.0000	24.7
18	Acetone	43	2.637	2.643	(0.621)	2093788	50.0000	53.0(M)
19	Isopropyl Alcohol	45	2.669	2.682	(0.628)	1285277	50.0000	43.6(M)
20	1,1-Dichloroethene	61	2.791	2.791	(0.657)	521331	10.0000	10.0
21	Acrylonitrile	53	2.807	2.829	(0.661)	494626	25.0000	26.7(Q)
24	Tert Butyl Alcohol (TBA)	59	2.823	2.836	(0.665)	1059234	25.0000	26.4
22	Freon 113	101	2.823	2.820	(0.665)	684934	10.0000	10.0

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06819.d
Report Date: 13-Mar-2017 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.832	2.839	(0.667)	750599	10.0000	10.4
	25 Methylene chloride	49	2.871	2.865	(0.676)	1714531	50.0000	50.9(H)
	26 Allyl Chloride	76	2.877	2.877	(0.677)	237105	25.0000	28.9(Q)
	27 Carbon Disulfide	76	2.964	2.967	(0.698)	746091	10.0000	10.1
	28 trans-1,2-dichloroethene	96	3.089	3.083	(0.727)	262904	10.0000	10.7(Q)
	29 Methyl Tert Butyl Ether	73	3.115	3.115	(0.733)	1695432	25.0000	26.2
	30 Vinyl Acetate	43	3.192	3.185	(0.751)	873135	10.0000	10.2(H)
	31 1,1-Dichloroethane	63	3.201	3.185	(0.754)	564386	10.0000	10.1
$	32 Hexane-d14(S)	66	3.269	3.266	(0.770)	2055763	10.0000	10.2
	33 Methyl Ethyl Ketone	72	3.336	3.346	(0.785)	120970	10.0000	10.0(QH)
	34 n-Hexane	57	3.349	3.343	(0.788)	427010	10.0000	9.81(QM)
	35 Di-isopropyl Ether	45	3.368	3.368	(0.793)	1074860	10.0000	10.2
	36 cis-1,2-Dichloroethene	96	3.468	3.452	(0.816)	294001	10.0000	10.5
	37 Ethyl Acetate	43	3.481	3.490	(0.819)	716029	10.0000	10.3(Q)
	38 Ethyl Tert-Butyl Ether	59	3.564	3.564	(0.839)	2077380	25.0000	25.9
	39 Chloroform	83	3.567	3.548	(0.840)	727385	10.0000	10.3
	40 Tetrahydrofuran	42	3.705	3.718	(0.872)	343082	10.0000	9.76
	41 1,1,1-Trichloroethane	97	3.901	3.895	(0.918)	723641	10.0000	10.2
	42 1,2-Dichloroethane	62	3.911	3.904	(0.921)	515222	10.0000	9.99
	43 Benzene	78	4.106	4.097	(0.967)	845322	10.0000	10.1
	45 Carbon tetrachloride	117	4.119	4.113	(0.970)	745335	10.0000	11.2
	44 Cyclohexane	56	4.119	4.119	(0.970)	396656	10.0000	9.22(Q)
	46 Tert Amyl Methyl Ether	73	4.241	4.241	(0.998)	874123	10.0000	9.83(Q)
*	47 1,4-Difluorobenzene	114	4.248	4.238	(1.000)	3787563	10.0000	
	48 2,2,4-Trimethylpentane	57	4.373	4.366	(1.029)	2853110	25.0000	26.7
	49 Heptane	43	4.491	4.479	(1.057)	612486	10.0000	9.41
	50 1,2-Dichloropropane	63	4.556	4.546	(1.073)	378938	10.0000	9.87
	51 Trichloroethene	130	4.572	4.565	(1.076)	454016	10.0000	9.92
	52 Methyl methacrylate	69	4.652	4.662	(1.095)	305622	10.0000	10.1
	53 Bromodichloromethane	83	4.665	4.655	(1.098)	833654	10.0000	10.6
	54 1,4-Dioxane	88	4.678	4.719	(1.101)	44756	10.0000	7.11(QH)
	55 Methylcyclohexane	98	4.960	4.947	(1.168)	166145	10.0000	9.42
	56 Methyl Isobutyl Ketone	43	5.092	5.101	(1.199)	2069026	25.0000	25.7
	57 cis-1,3-Dichloropropene	75	5.130	5.130	(1.208)	547157	10.0000	10.5(Q)
	58 trans-1,3-Dichloropropene	75	5.505	5.502	(1.296)	490872	10.0000	9.98(H)
$	59 Toluene-d8 (S)	98	5.566	5.557	(1.310)	3825789	10.0000	10.1
	60 Toluene	91	5.634	5.627	(1.326)	1102644	10.0000	9.85
	61 1,1,2-Trichloroethane	97	5.643	5.634	(1.329)	423085	10.0000	9.76
	62 Methyl Butyl Ketone	43	5.878	5.897	(0.836)	1973459	25.0000	25.2
	63 n-Octane	43	6.051	6.048	(0.860)	779761	10.0000	9.58
	64 Dibromochloromethane	129	6.125	6.115	(0.871)	900390	10.0000	11.1
	65 1,2-Dibromoethane	107	6.340	6.340	(0.901)	704144	10.0000	10.1
	66 Tetrachloroethene	166	6.404	6.394	(0.911)	700912	10.0000	9.66
*	67 Chlorobenzene - d5	117	7.033	7.026	(1.000)	3280875	10.0000	
	68 Chlorobenzene	112	7.071	7.065	(1.005)	864474	10.0000	9.78(Q)
	69 Ethyl Benzene	91	7.315	7.312	(1.040)	1375909	10.0000	9.56
	70 m&p-Xylene	91	7.460	7.453	(1.061)	2048253	20.0000	20.3
	71 Bromoform	173	7.825	7.829	(1.113)	909834	10.0000	9.85
	72 n-Nonane	43	7.858	7.858	(1.117)	756464	10.0000	10.1
	73 Styrene	104	7.867	7.874	(1.119)	748768	10.0000	10.3
	74 o-Xylene	91	7.931	7.925	(1.128)	1081383	10.0000	9.11
	75 1,1,2,2-Tetrachloroethane	83	8.195	8.191	(1.165)	787937	10.0000	9.99
	76 Isopropylbenzene	105	8.499	8.496	(1.208)	1392408	10.0000	9.48
	77 N-Propylbenzene	91	9.058	9.051	(1.288)	1613631	10.0000	10.4

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06819.d
Report Date: 13-Mar-2017 10:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.228	9.228	(1.312)	1305541	10.0000	10.3
79	1,3,5-Trimethylbenzene	105	9.318	9.318	(1.325)	1085497	10.0000	9.76
80	n-Decane	57	9.722	9.719	(2.289)	618683	10.0000	10.1
81	Tert-Butyl Benzene	119	9.809	9.809	(1.395)	1116634	10.0000	9.59
82	1,2,4-Trimethylbenzene	105	9.828	9.825	(1.397)	1048667	10.0000	9.69
83	1,3-Dichlorobenzene	146	10.126	10.133	(1.440)	743164	10.0000	9.67(H)
84	Sec- Butylbenzene	105	10.152	10.146	(1.443)	1452255	10.0000	10.0
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.197	10.194	(1.450)	2100990	10.0000	10.5
86	Benzyl Chloride	91	10.223	10.219	(1.454)	774445	10.0000	9.67
87	1,4-Dichlorobenzene	146	10.239	10.235	(1.456)	720988	10.0000	8.98(Q)
88	p-Isopropyltoluene	119	10.377	10.370	(1.475)	1292706	10.0000	10.0
89	1,2,3-Trimethylbenzene	105	10.415	10.415	(1.481)	1010372	10.0000	10.0
90	1,2-Dichlorobenzene	146	10.704	10.704	(1.522)	673579	10.0000	9.46
91	N-Butylbenzene	91	10.967	10.970	(1.559)	1088393	10.0000	10.3
92	1,2-Dibromo-3-Chloropropane	157	11.529	11.541	(1.639)	172484	10.0000	10.6(Q)
93	1,2,4-Trichlorobenzene	180	12.835	12.851	(1.825)	153553	10.0000	8.02
94	Naphthalene	128	12.957	12.966	(1.842)	261936	10.0000	7.62
95	Hexachlorobutadiene	225	13.213	13.223	(1.879)	209552	10.0000	7.33

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06819.d
Report Date: 13-Mar-2017 10:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06819.d
Lab Smp Id: CAL5
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

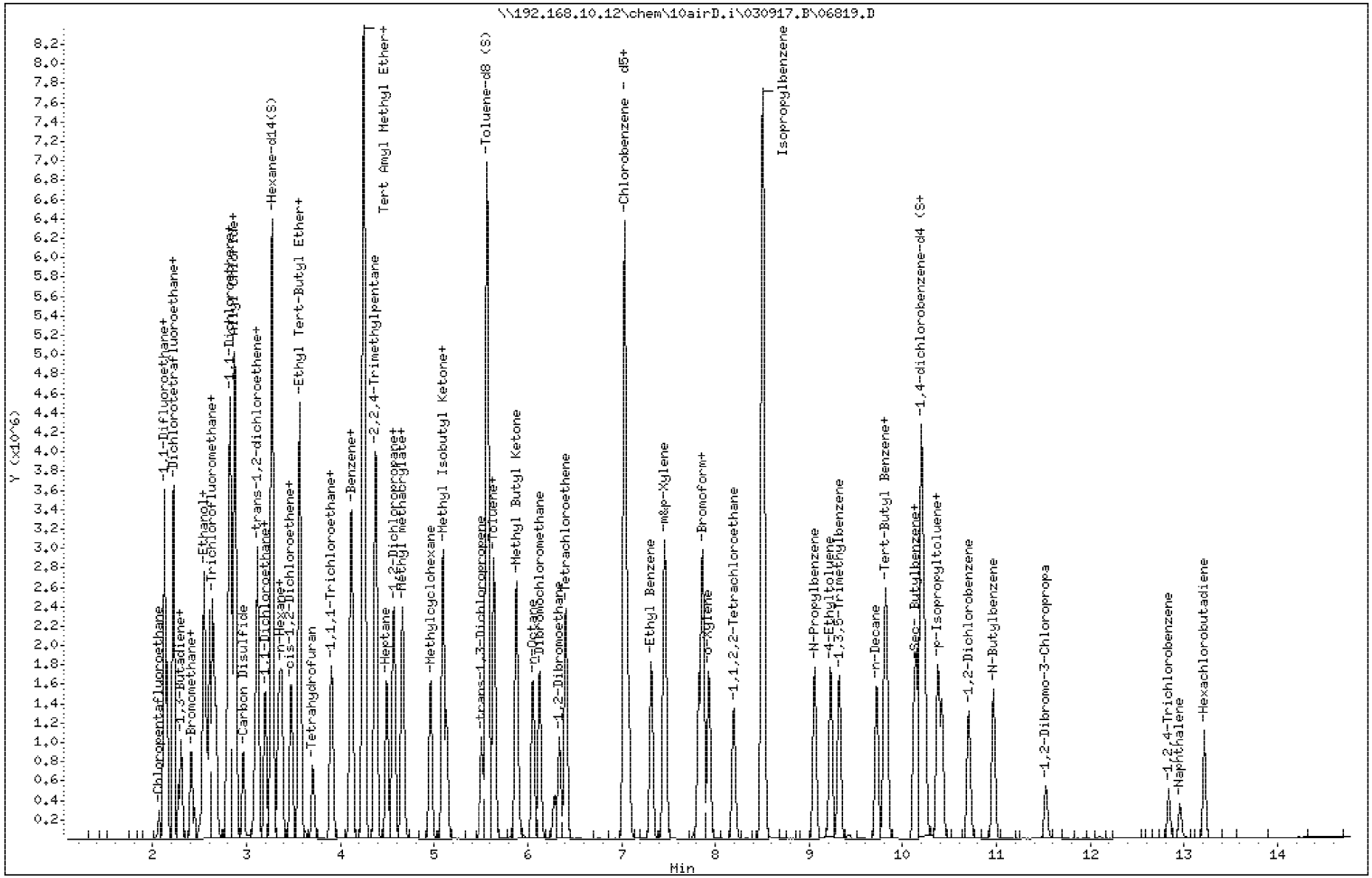
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3787563	0.00
67 Chlorobenzene - d	3280875	1968525	4593225	3280875	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	0.00
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

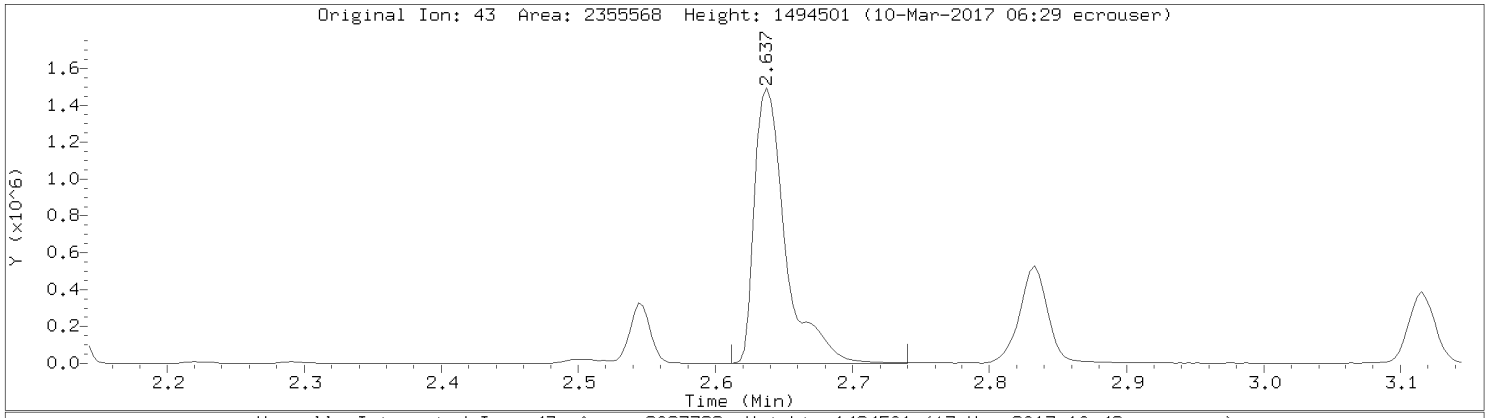
Data File: \\192.168.10.12\chem\10airD.i\030917.B\06819.D
Date : 09-MAR-2017 22:41
Client ID:
Sample Info:

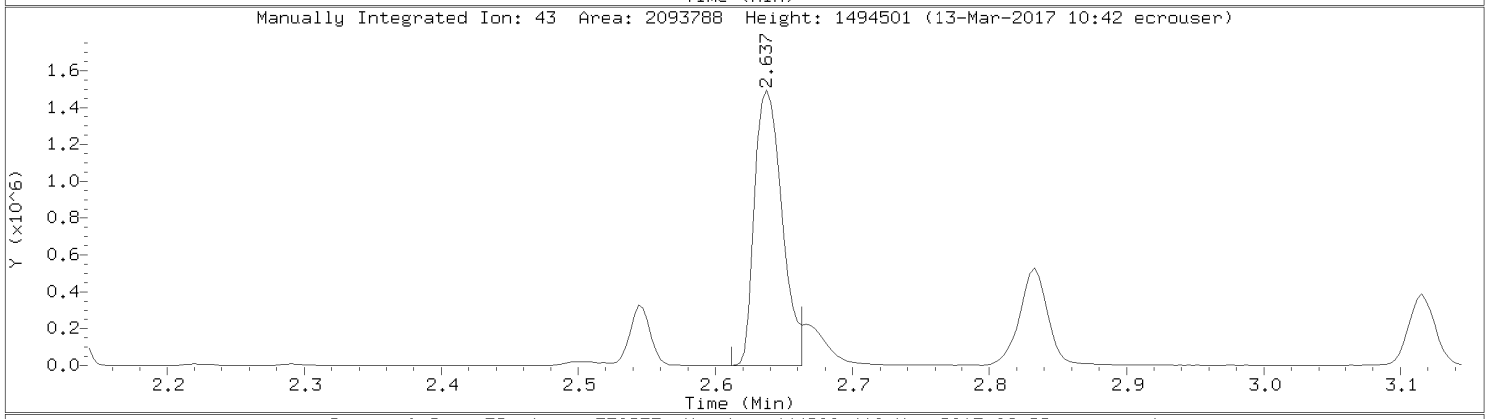
Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

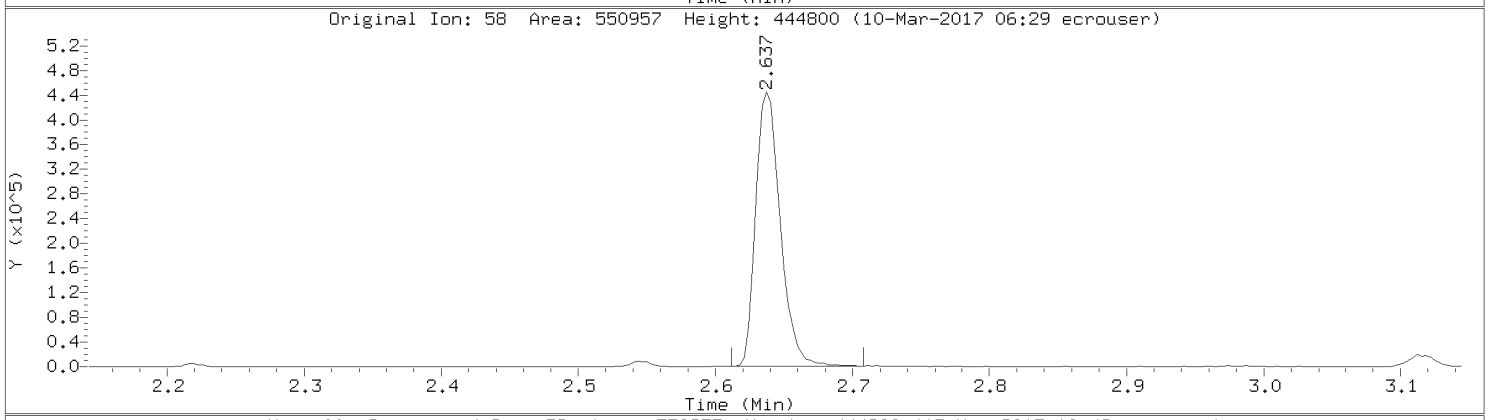


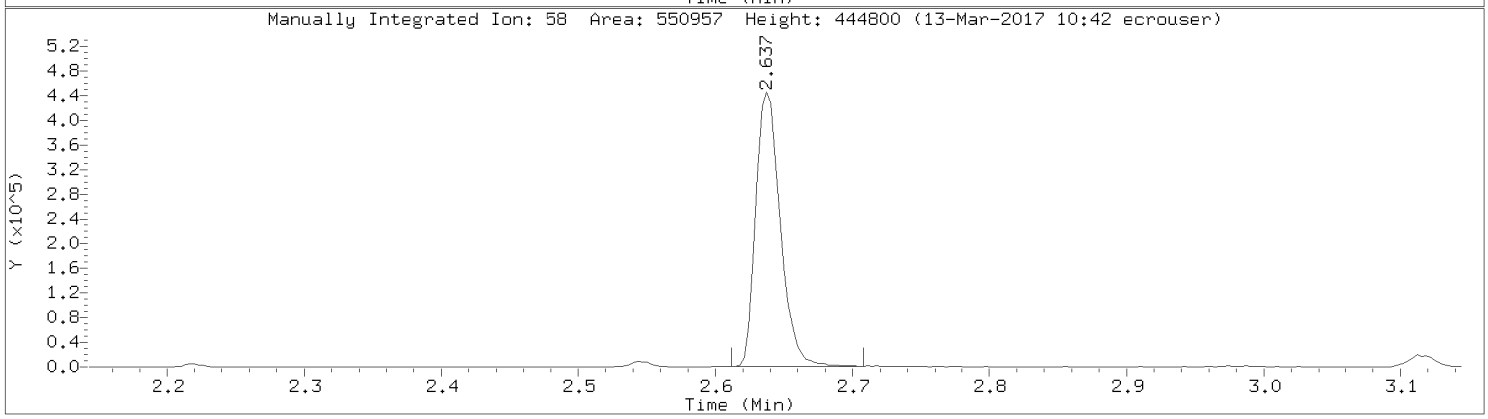
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06819.d
Injection Date: 09-MAR-2017 22:41
Instrument: 10airD.i
Lab Sample ID: CAL5

Compound: Acetone
CAS Number: 67-64-1



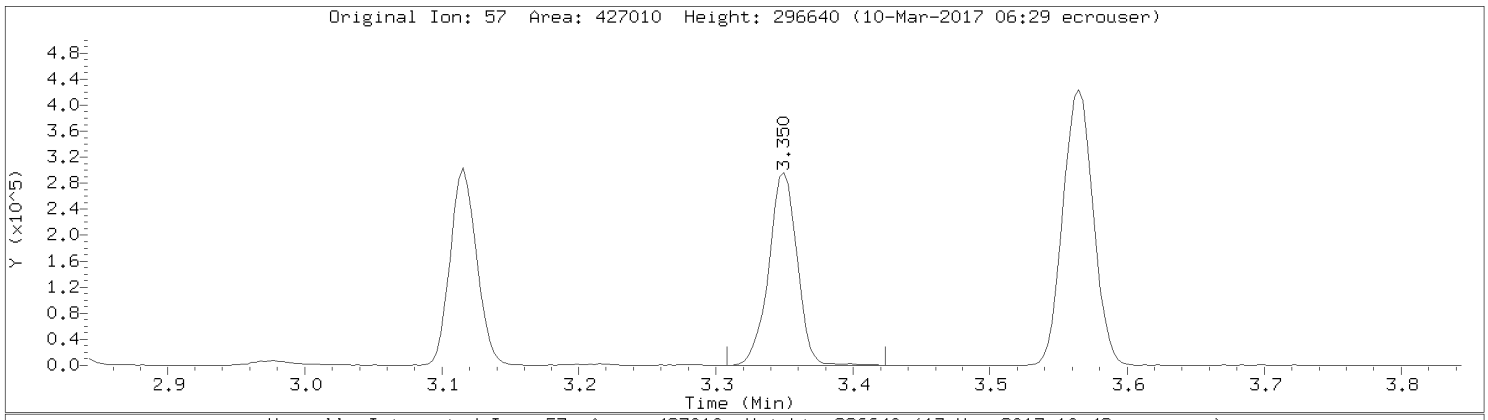


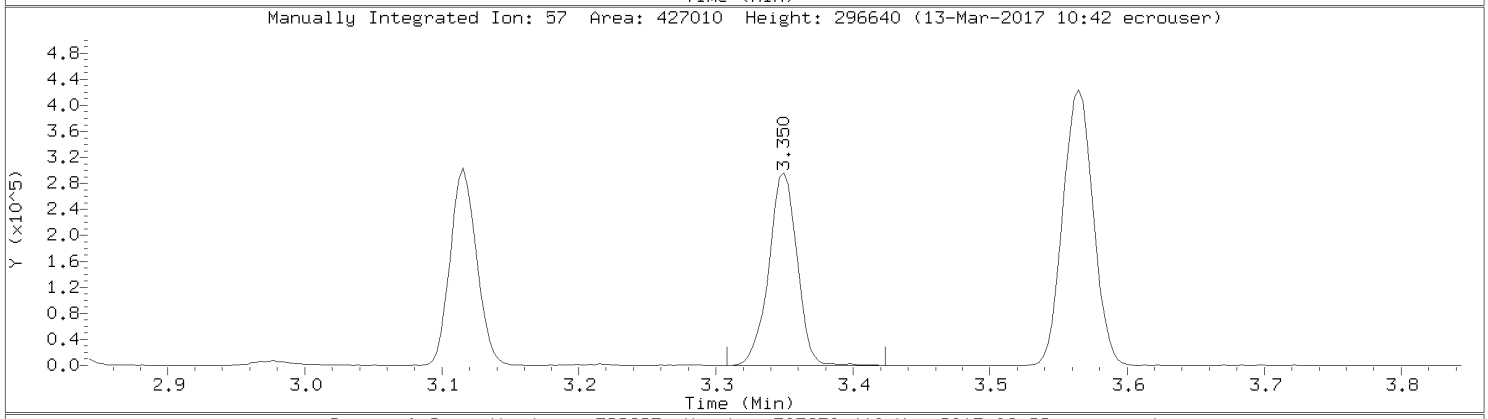


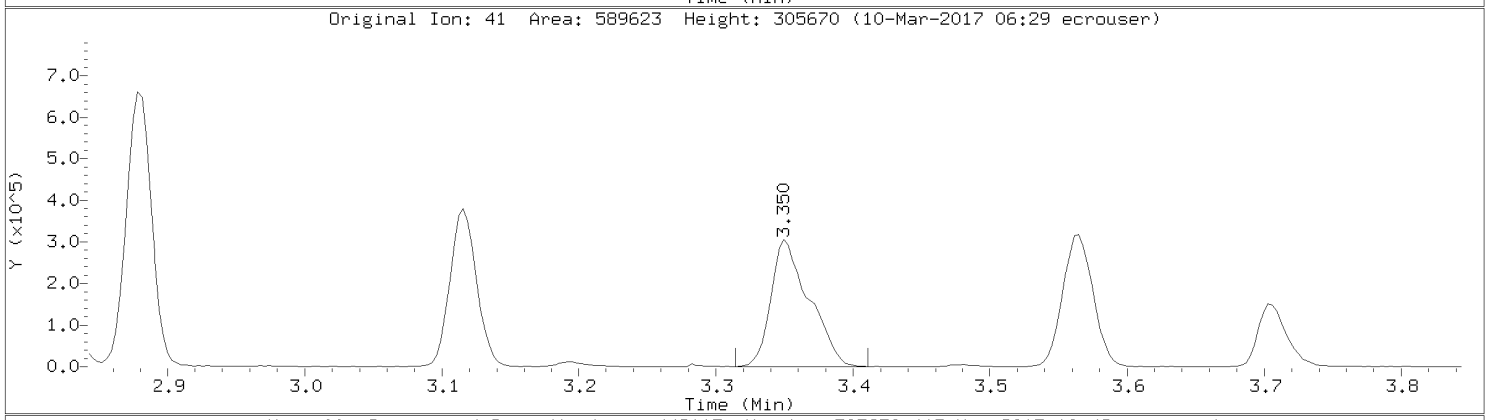


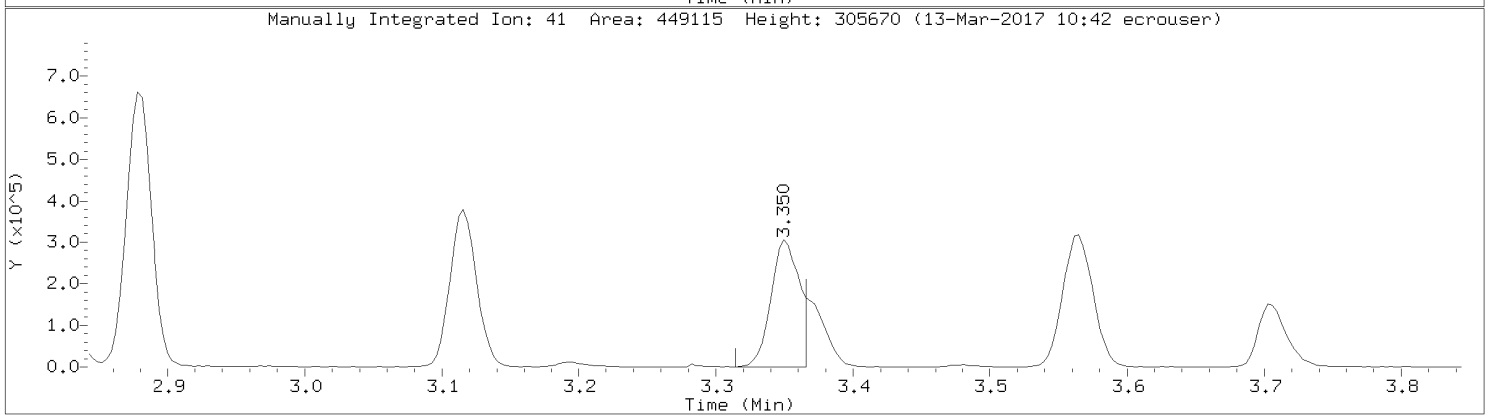
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06819.d
Injection Date: 09-MAR-2017 22:41
Instrument: 10airD.i
Lab Sample ID: CAL5

Compound: n-Hexane
CAS Number: 110-54-3

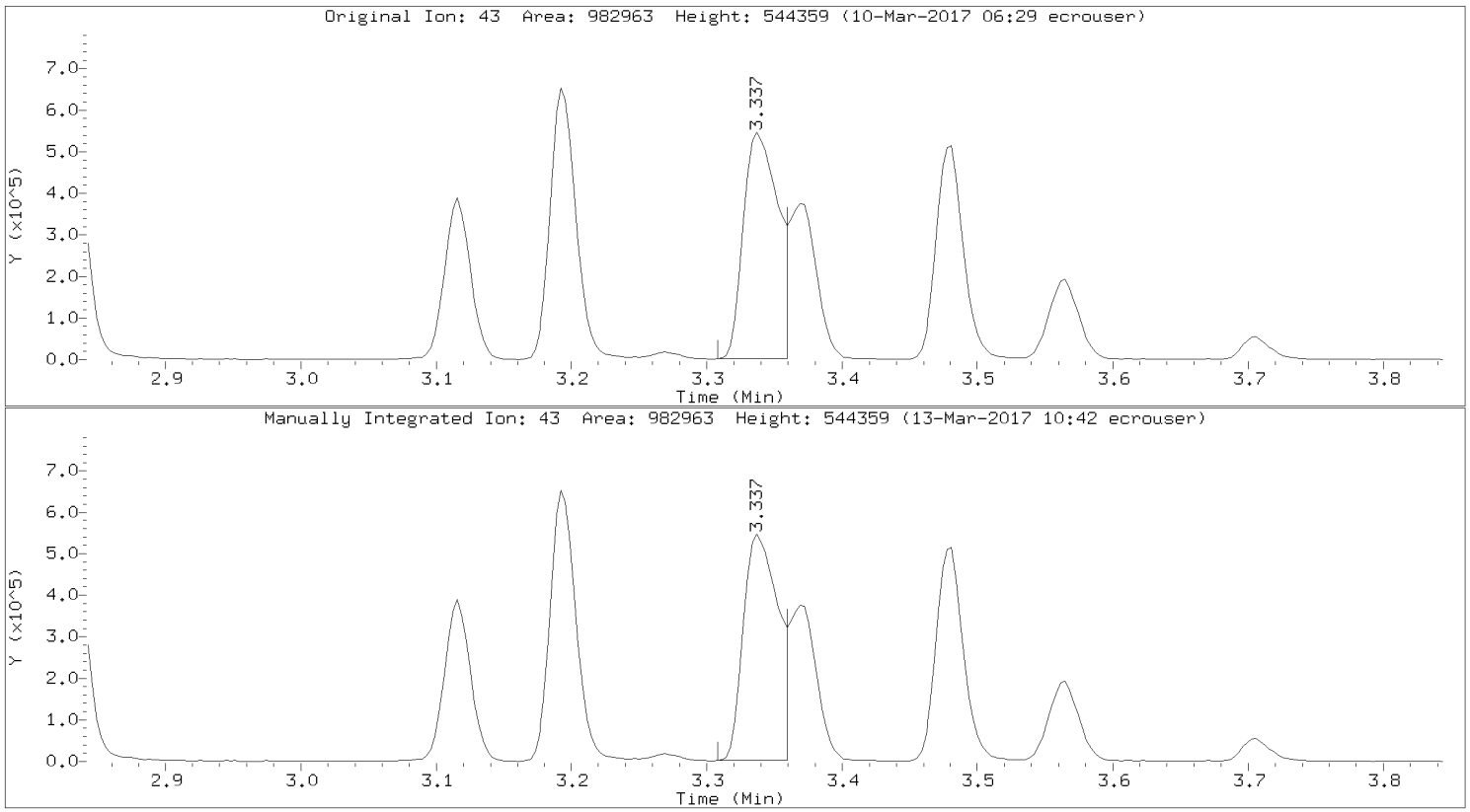






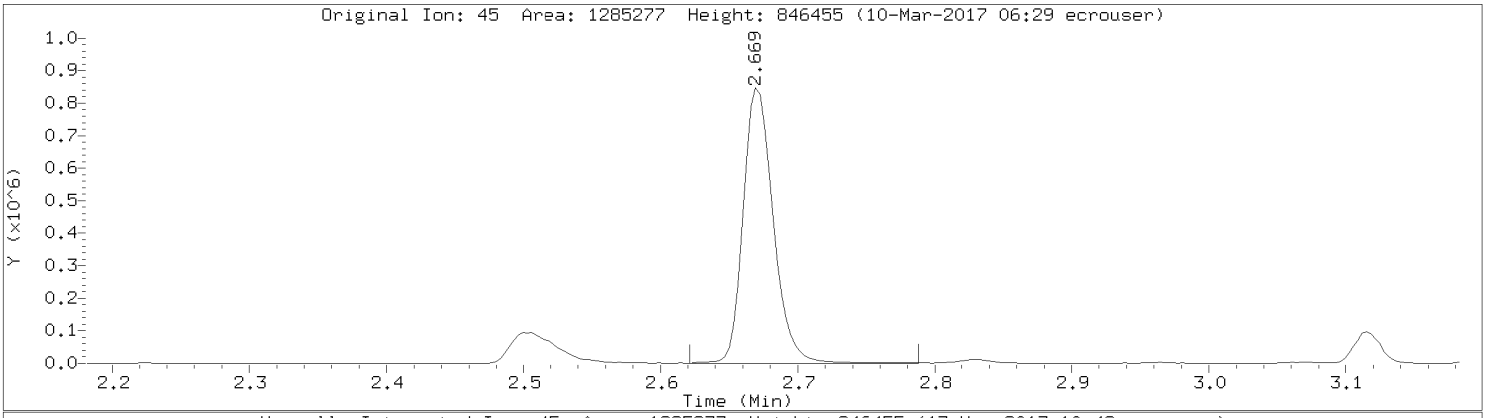


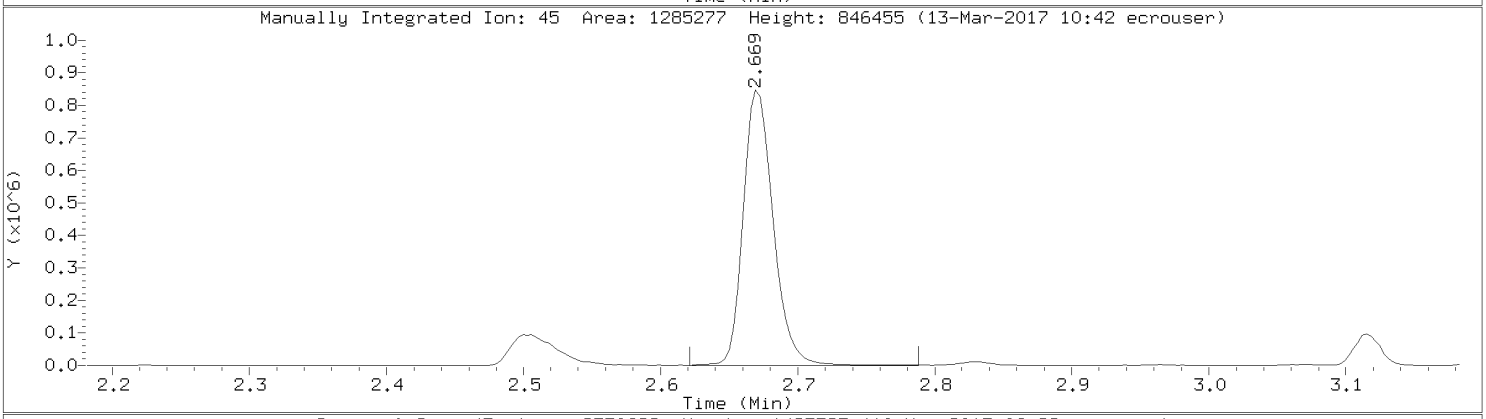
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06819.d
Injection Date: 09-MAR-2017 22:41
Instrument: 10airD.i
Lab Sample ID: CAL5

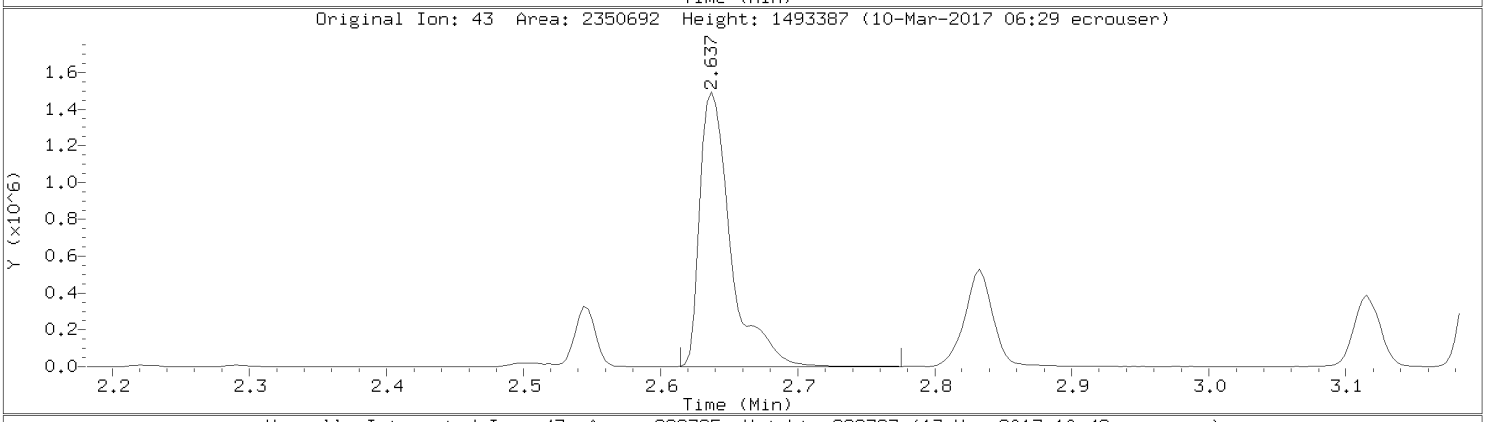


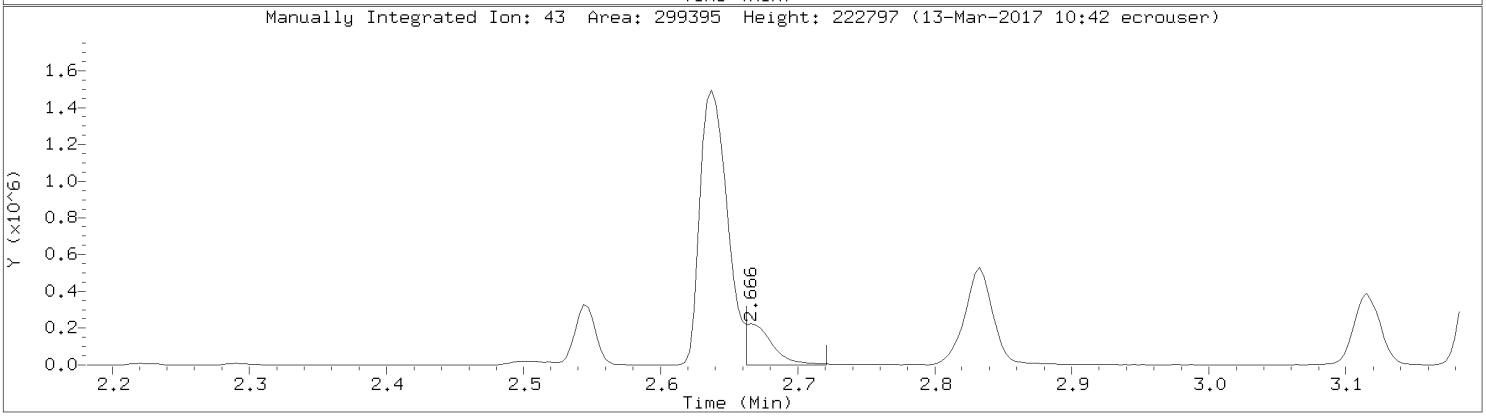
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06819.d
Injection Date: 09-MAR-2017 22:41
Instrument: 10airD.i
Lab Sample ID: CAL5

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Data File: \\192.168.10.12\chem\10airD.i\030917.B\06820.d
Report Date: 13-Mar-2017 10:45

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\030917.B\06820.d
Lab Smp Id: CAL6
Inj Date : 09-MAR-2017 23:55
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 20 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.069	2.075	(0.486)	78150	20.0000	11.9
2	1,1-Difluoroethane	65	2.117	2.120	(0.498)	364064	20.0000	19.5(Q)
3	Chlorodifluoromethane	67	2.127	2.136	(0.500)	192015	20.0000	20.7(QH)
4	Propylene	41	2.133	2.136	(0.501)	1376645	20.0000	20.6
5	Dichlorodifluoromethane	85	2.155	2.155	(0.507)	1507034	20.0000	17.8
6	Dichlorotetrafluoroethane	85	2.220	2.220	(0.522)	1512032	20.0000	17.6
7	Chloromethane	50	2.223	2.223	(0.523)	748048	20.0000	18.9
8	Vinyl chloride	62	2.277	2.281	(0.535)	612504	20.0000	19.9
9	1,3-Butadiene	54	2.309	2.306	(0.543)	435456	20.0000	20.4(Q)
10	Bromomethane	94	2.412	2.412	(0.567)	654222	20.0000	19.7
11	Chloroethane	64	2.447	2.447	(0.575)	241576	20.0000	20.7
12	Ethanol	45	2.508	2.508	(0.590)	447197	100.000	75.8
13	Vinyl Bromide	106	2.537	2.534	(0.596)	635117	20.0000	20.4
14	Isopentane	43	2.547	2.544	(0.599)	659639	20.0000	17.9
15	Freon 123	83	2.553	2.547	(0.600)	1533770	20.0000	19.7
16	Trichlorofluoromethane	101	2.608	2.601	(0.613)	1616899	20.0000	18.3
17	Acrolein	56	2.614	2.621	(0.615)	476217	50.0000	50.4
18	Acetone	43	2.643	2.643	(0.621)	3242186	100.000	95.2(M)
19	Isopropyl Alcohol	45	2.679	2.682	(0.630)	2220538	100.000	74.2(QM)
20	1,1-Dichloroethene	61	2.797	2.791	(0.658)	1023122	20.0000	19.4
21	Acrylonitrile	53	2.813	2.829	(0.661)	1004640	50.0000	53.4(Q)
24	Tert Butyl Alcohol (TBA)	59	2.833	2.836	(0.666)	1868962	50.0000	45.9
22	Freon 113	101	2.829	2.820	(0.665)	1323348	20.0000	19.1

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06820.d
Report Date: 13-Mar-2017 10:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.839	2.839	(0.667)	1403566	20.0000	19.2
	25 Methylene chloride	49	2.874	2.865	(0.676)	2873993	100.000	98.5(H)
	26 Allyl Chloride	76	2.884	2.877	(0.678)	485768	50.0000	58.3(Q)
	27 Carbon Disulfide	76	2.967	2.967	(0.698)	1444249	20.0000	19.4
	28 trans-1,2-dichloroethene	96	3.096	3.083	(0.728)	531997	20.0000	21.3(Q)
	29 Methyl Tert Butyl Ether	73	3.118	3.115	(0.733)	2796888	50.0000	42.5
	30 Vinyl Acetate	43	3.198	3.185	(0.752)	1629866	20.0000	19.8(H)
	31 1,1-Dichloroethane	63	3.208	3.185	(0.754)	1092578	20.0000	19.2
$	32 Hexane-d14(S)	66	3.272	3.266	(0.769)	2056410	10.0000	10.1
	33 Methyl Ethyl Ketone	72	3.343	3.346	(0.786)	246369	20.0000	20.2(QH)
	34 n-Hexane	57	3.352	3.343	(0.788)	838341	20.0000	19.0(QM)
	35 Di-isopropyl Ether	45	3.375	3.368	(0.793)	1994988	20.0000	18.6
	36 cis-1,2-Dichloroethene	96	3.474	3.452	(0.817)	596855	20.0000	21.1
	37 Ethyl Acetate	43	3.484	3.490	(0.819)	1408132	20.0000	19.9(Q)
	38 Ethyl Tert-Butyl Ether	59	3.571	3.564	(0.839)	3339677	50.0000	48.5
	39 Chloroform	83	3.574	3.548	(0.840)	1390733	20.0000	19.4
	40 Tetrahydrofuran	42	3.709	3.718	(0.872)	694816	20.0000	19.5
	41 1,1,1-Trichloroethane	97	3.904	3.895	(0.918)	1427056	20.0000	19.8
	42 1,2-Dichloroethane	62	3.920	3.904	(0.922)	1023310	20.0000	19.6
	43 Benzene	78	4.110	4.097	(0.966)	1610986	20.0000	19.1
	45 Carbon tetrachloride	117	4.123	4.113	(0.969)	1437055	20.0000	21.2
	44 Cyclohexane	56	4.126	4.119	(0.970)	783954	20.0000	18.0(Q)
	46 Tert Amyl Methyl Ether	73	4.244	4.241	(0.998)	1669761	20.0000	20.2(Q)
*	47 1,4-Difluorobenzene	114	4.254	4.238	(1.000)	3842791	10.0000	
	48 2,2,4-Trimethylpentane	57	4.379	4.366	(1.029)	4281827	50.0000	47.0
	49 Heptane	43	4.498	4.479	(1.057)	1210969	20.0000	18.3
	50 1,2-Dichloropropane	63	4.562	4.546	(1.072)	762362	20.0000	19.6
	51 Trichloroethene	130	4.578	4.565	(1.076)	908759	20.0000	19.6
	52 Methyl methacrylate	69	4.658	4.662	(1.095)	628406	20.0000	20.5
	53 Bromodichloromethane	83	4.668	4.655	(1.097)	1648729	20.0000	20.6
	54 1,4-Dioxane	88	4.678	4.719	(1.100)	79849	20.0000	12.5(M)
	55 Methylcyclohexane	98	4.966	4.947	(1.167)	335874	20.0000	18.8
	56 Methyl Isobutyl Ketone	43	5.098	5.101	(1.198)	3434951	50.0000	48.9
	57 cis-1,3-Dichloropropene	75	5.133	5.130	(1.207)	1130238	20.0000	21.4(Q)
	58 trans-1,3-Dichloropropene	75	5.509	5.502	(1.295)	1021474	20.0000	20.0(M)
$	59 Toluene-d8 (S)	98	5.570	5.557	(1.309)	3889791	10.0000	10.1
	60 Toluene	91	5.637	5.627	(1.325)	2106005	20.0000	18.5
	61 1,1,2-Trichloroethane	97	5.647	5.634	(1.327)	864519	20.0000	19.7
	62 Methyl Butyl Ketone	43	5.884	5.897	(0.836)	3408912	50.0000	42.6
	63 n-Octane	43	6.057	6.048	(0.861)	1524169	20.0000	18.3
	64 Dibromochloromethane	129	6.131	6.115	(0.871)	1793644	20.0000	21.7
	65 1,2-Dibromoethane	107	6.343	6.340	(0.901)	1441052	20.0000	20.2
	66 Tetrachloroethene	166	6.407	6.394	(0.911)	1391757	20.0000	18.8
*	67 Chlorobenzene - d5	117	7.036	7.026	(1.000)	3354585	10.0000	
	68 Chlorobenzene	112	7.078	7.065	(1.006)	1721542	20.0000	19.1(Q)
	69 Ethyl Benzene	91	7.322	7.312	(1.041)	2613525	20.0000	17.8
	70 m&p-Xylene	91	7.463	7.453	(1.061)	3556376	40.0000	39.6
	71 Bromoform	173	7.829	7.829	(1.113)	1863473	20.0000	20.2
	72 n-Nonane	43	7.861	7.858	(1.117)	1478337	20.0000	19.2
	73 Styrene	104	7.871	7.874	(1.119)	1559174	20.0000	20.9
	74 o-Xylene	91	7.935	7.925	(1.128)	2126830	20.0000	17.5
	75 1,1,2,2-Tetrachloroethane	83	8.198	8.191	(1.165)	1587863	20.0000	19.7
	76 Isopropylbenzene	105	8.503	8.496	(1.208)	2604421	20.0000	17.3
	77 N-Propylbenzene	91	9.061	9.051	(1.288)	3012614	20.0000	19.1

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06820.d
Report Date: 13-Mar-2017 10:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.231	9.228	(1.312)	2551131	20.0000	19.7
79	1,3,5-Trimethylbenzene	105	9.321	9.318	(1.325)	2174939	20.0000	20.3
80	n-Decane	57	9.728	9.719	(2.287)	1290304	20.0000	20.7
81	Tert-Butyl Benzene	119	9.815	9.809	(1.395)	2246625	20.0000	18.9
82	1,2,4-Trimethylbenzene	105	9.831	9.825	(1.397)	2106251	20.0000	20.3
83	1,3-Dichlorobenzene	146	10.130	10.133	(1.440)	1526025	20.0000	19.4(M)
84	Sec- Butylbenzene	105	10.158	10.146	(1.444)	2797462	20.0000	18.9
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.203	10.194	(1.450)	2208653	10.0000	10.7
86	Benzyl Chloride	91	10.226	10.219	(1.453)	1631835	20.0000	19.9
87	1,4-Dichlorobenzene	146	10.242	10.235	(1.456)	1496379	20.0000	18.2(Q)
88	p-Isopropyltoluene	119	10.380	10.370	(1.475)	2525732	20.0000	19.2
89	1,2,3-Trimethylbenzene	105	10.418	10.415	(1.481)	1999464	20.0000	19.4
90	1,2-Dichlorobenzene	146	10.707	10.704	(1.522)	1377828	20.0000	18.9
91	N-Butylbenzene	91	10.970	10.970	(1.559)	2137287	20.0000	19.8
92	1,2-Dibromo-3-Chloropropane	157	11.529	11.541	(1.638)	356284	20.0000	21.4(Q)
93	1,2,4-Trichlorobenzene	180	12.835	12.851	(1.824)	353108	20.0000	18.0
94	Naphthalene	128	12.957	12.966	(1.841)	563687	20.0000	16.0
95	Hexachlorobutadiene	225	13.217	13.223	(1.878)	464939	20.0000	15.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06820.d
Report Date: 13-Mar-2017 10:45

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06820.d
Lab Smp Id: CAL6
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3842791	1.46
67 Chlorobenzene - d	3280875	1968525	4593225	3354585	2.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.04	0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06820.D

Date : 09-MAR-2017 23:55

Client ID:

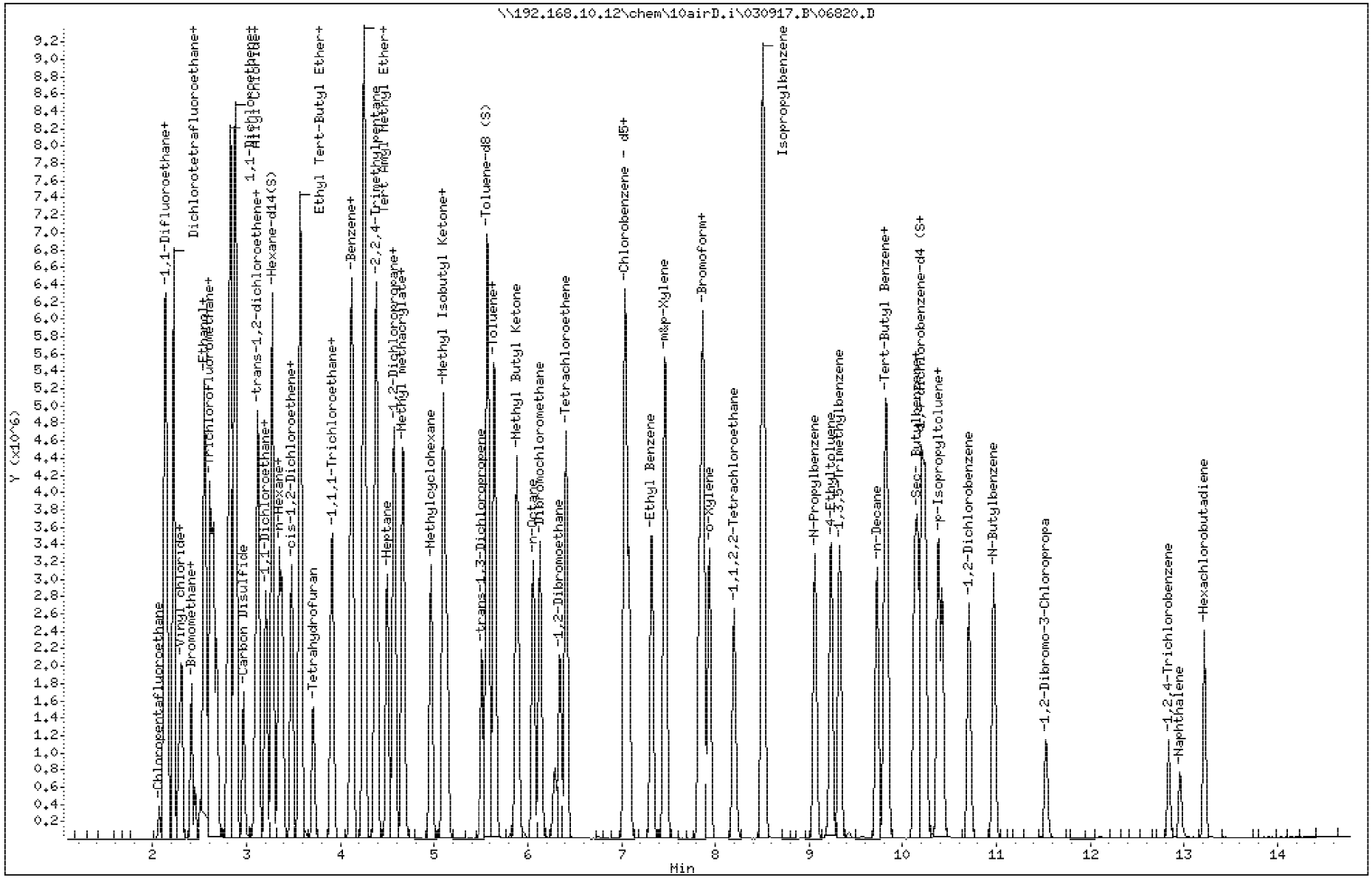
Instrument: 10airD.i

Sample Info:

Operator: EMC

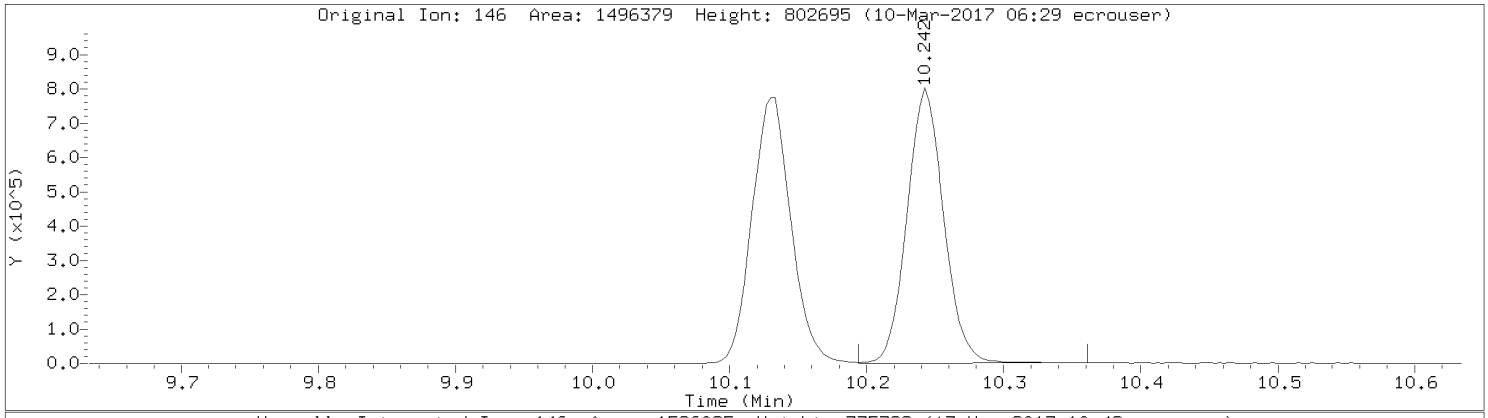
Column phase: J&W DB-5

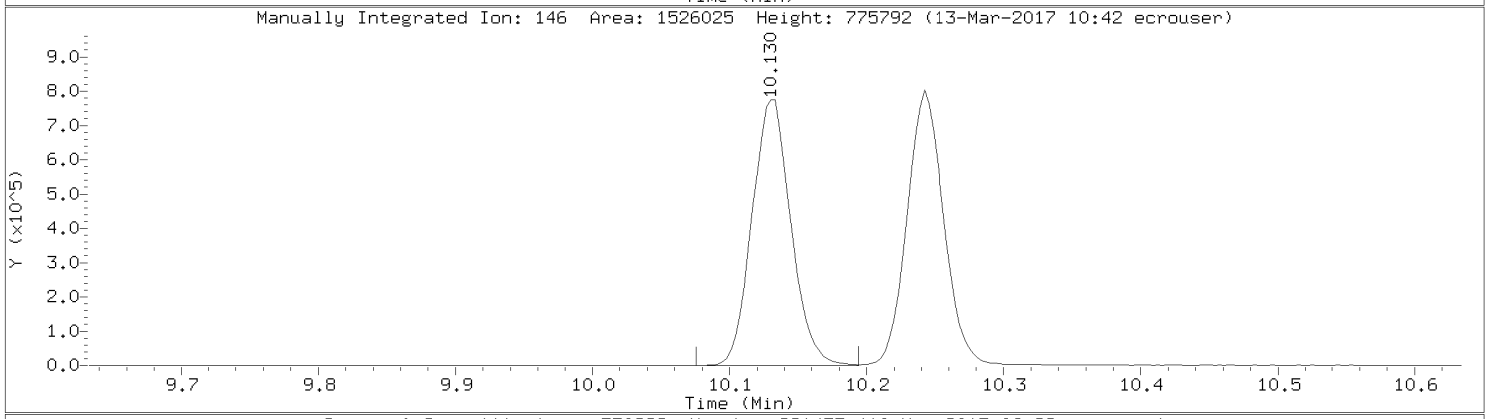
Column diameter: 0.32

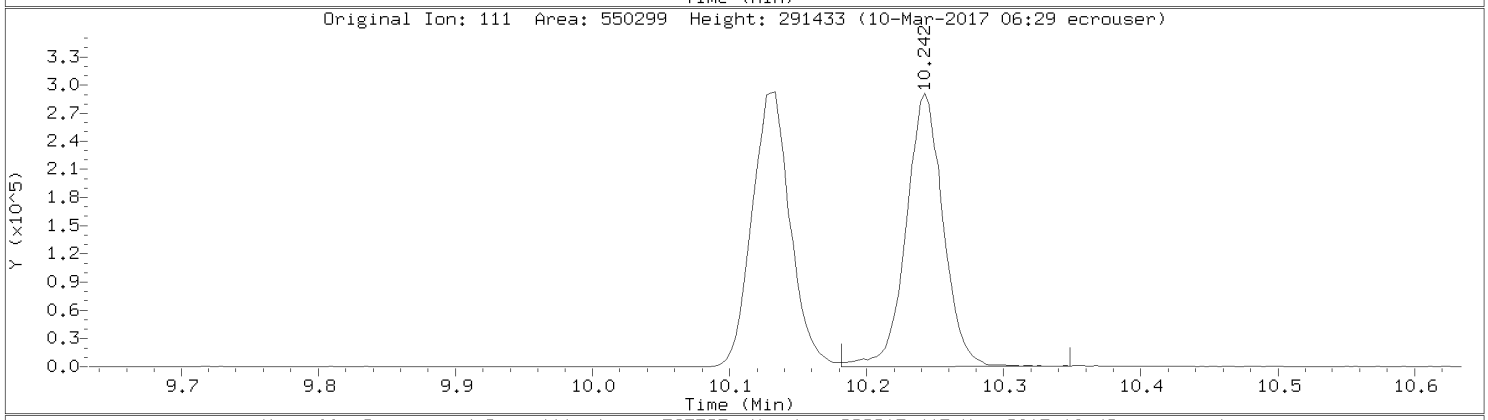


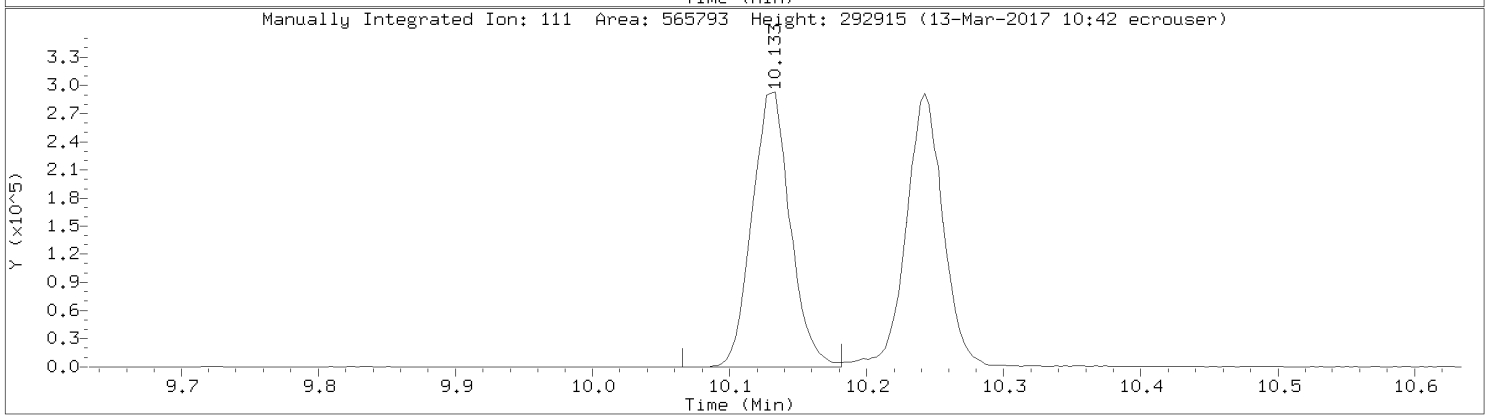
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06820.d
Injection Date: 09-MAR-2017 23:55
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

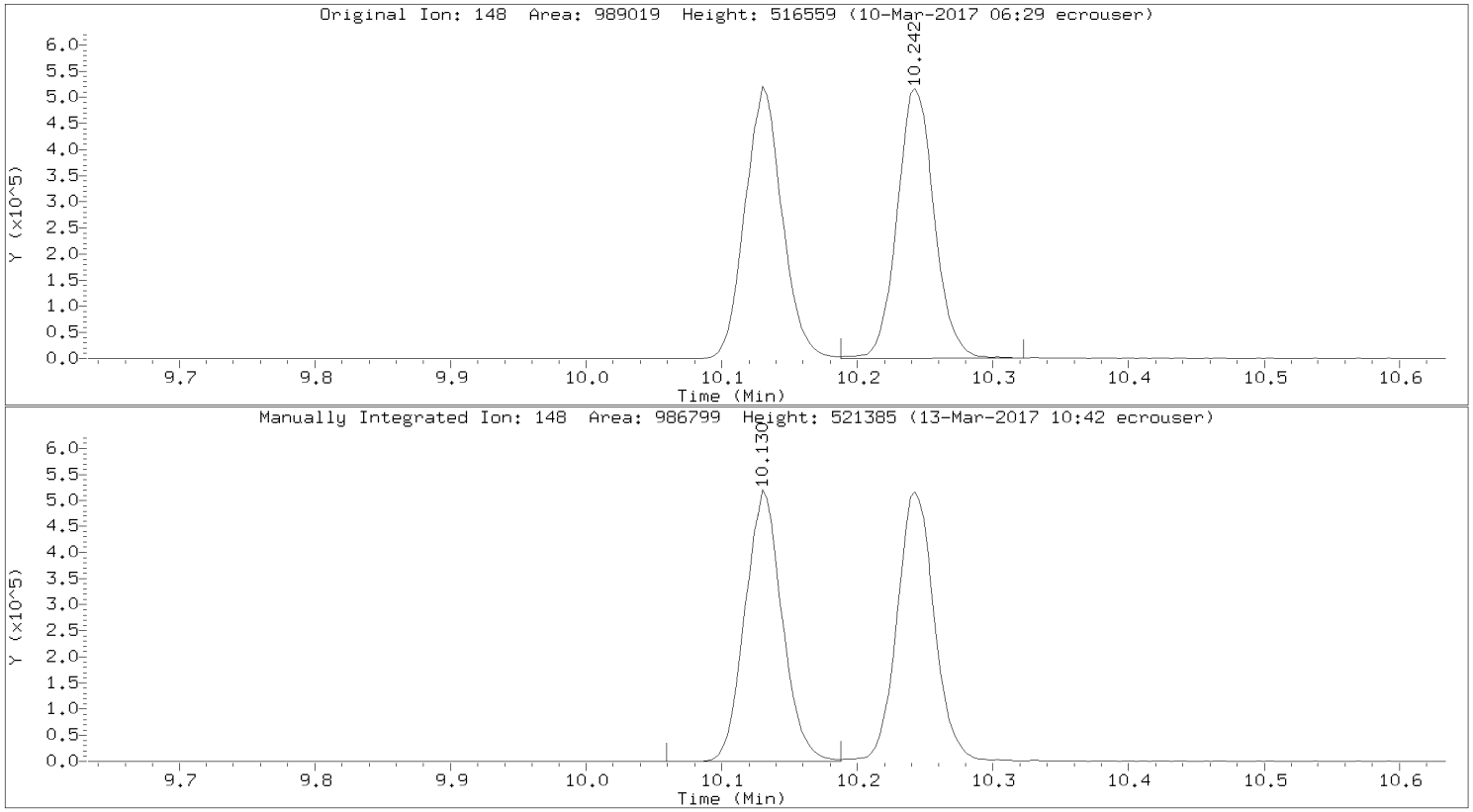






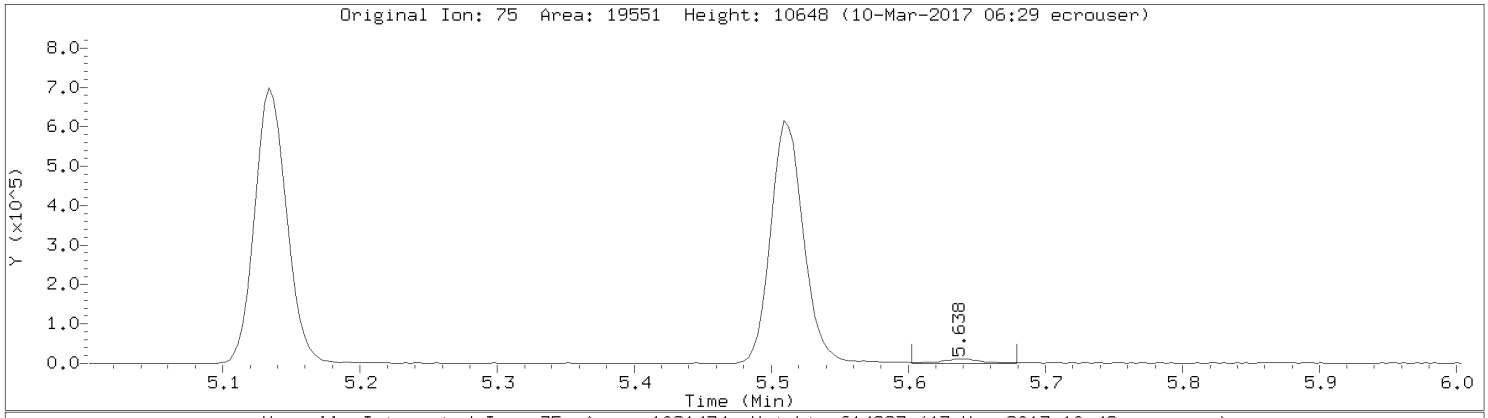


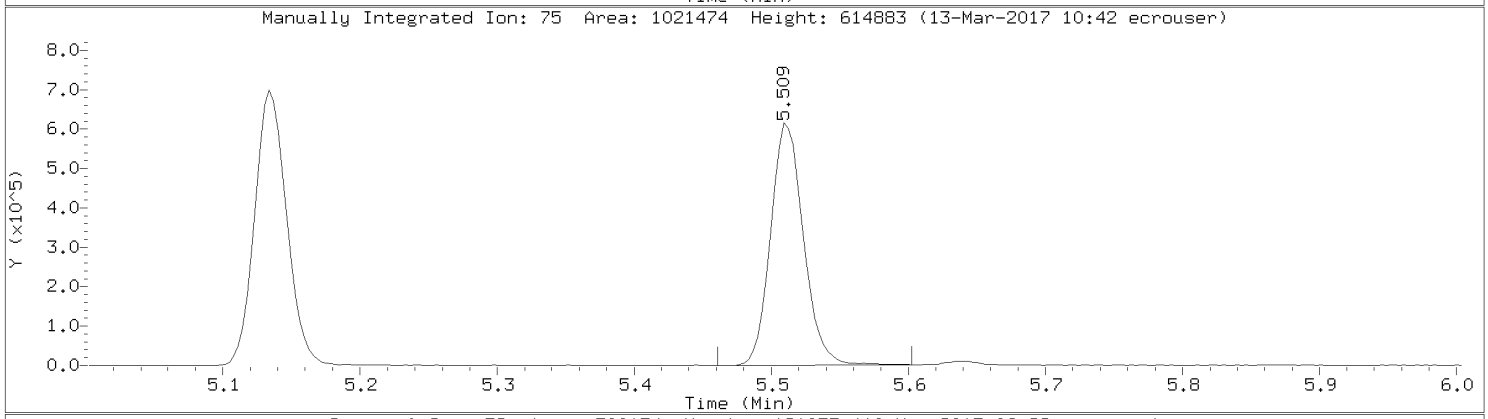
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06820.d
Injection Date: 09-MAR-2017 23:55
Instrument: 10airD.i
Lab Sample ID: CAL6

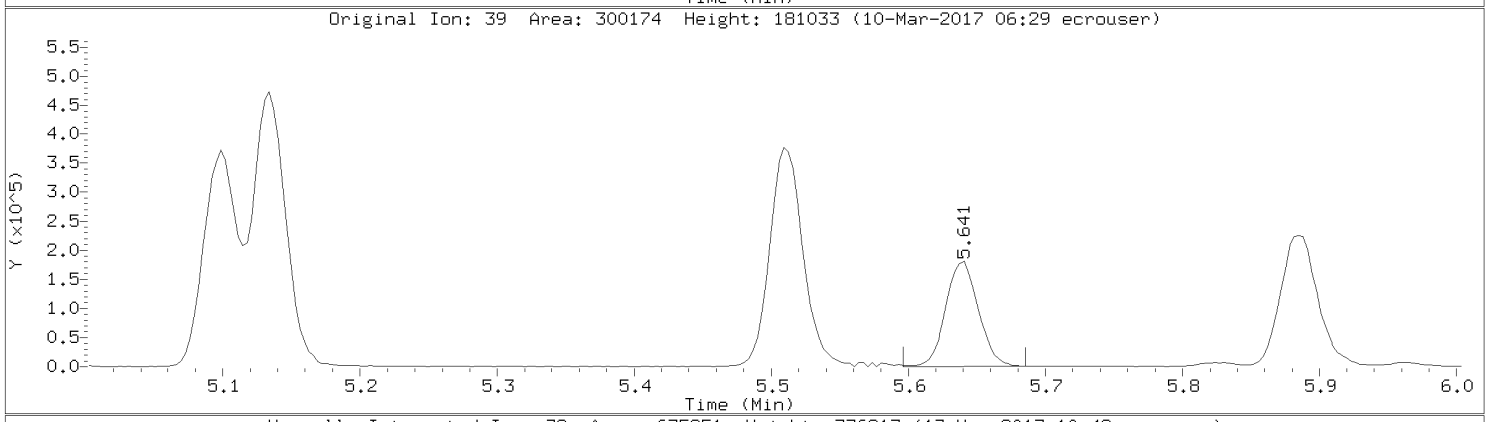


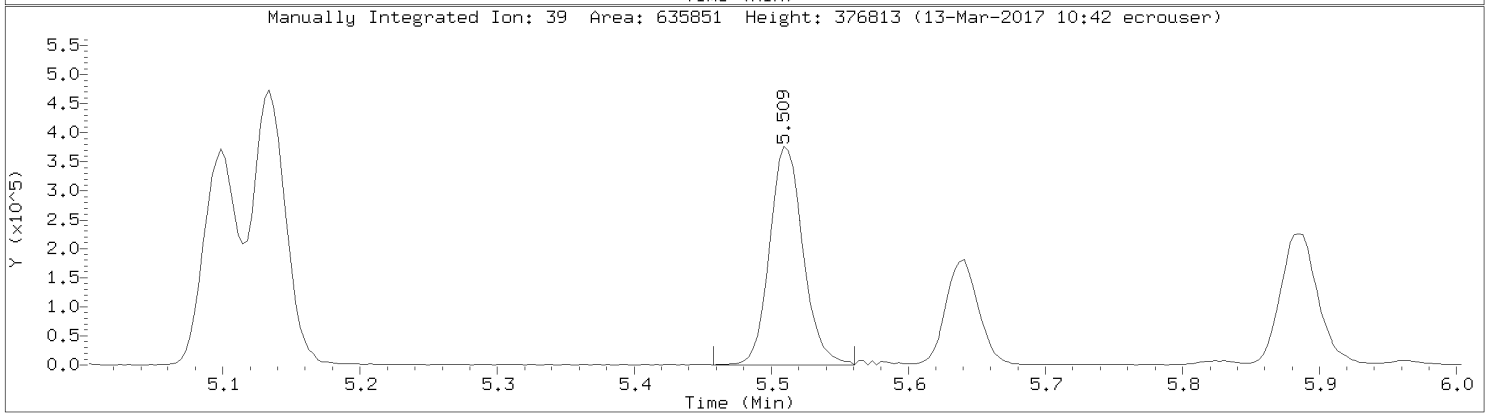
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06820.d
Injection Date: 09-MAR-2017 23:55
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

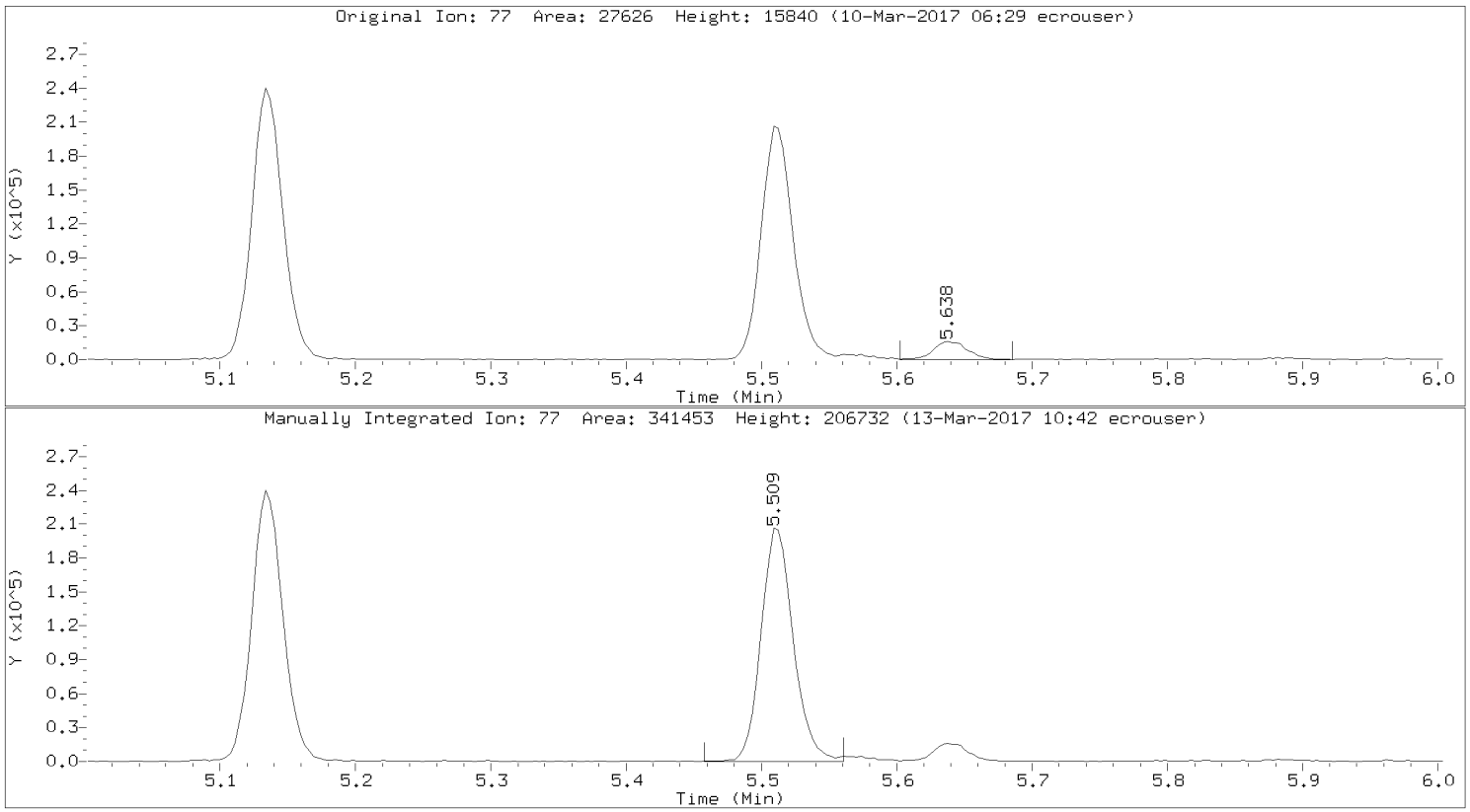






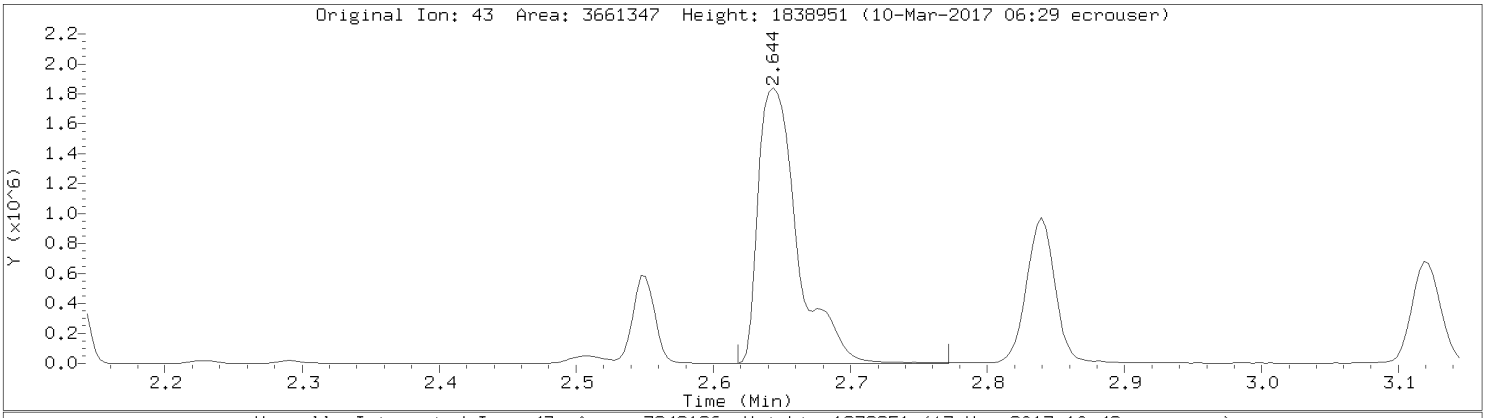


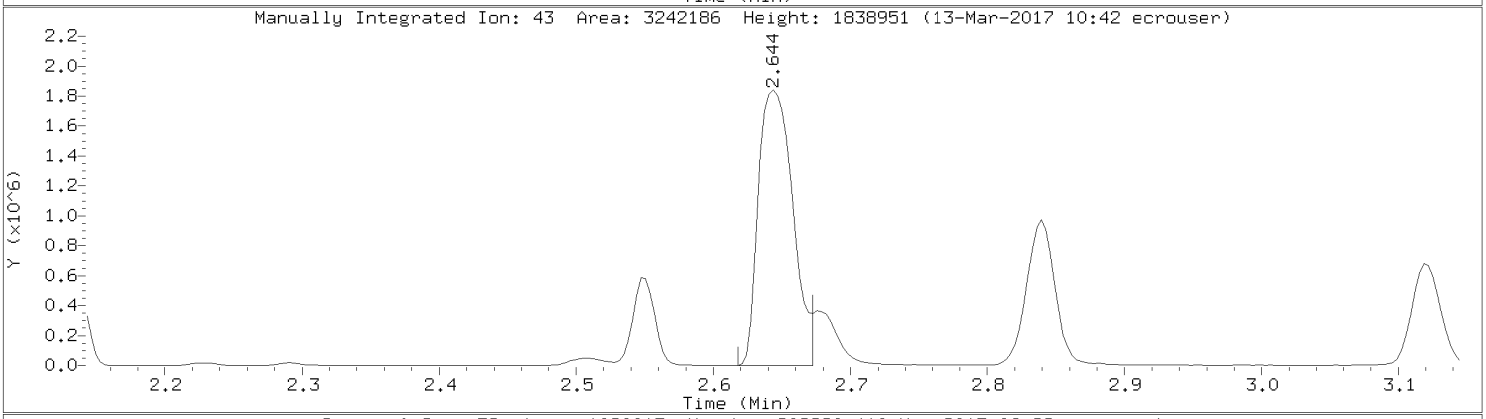
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06820.d
Injection Date: 09-MAR-2017 23:55
Instrument: 10airD.i
Lab Sample ID: CAL6

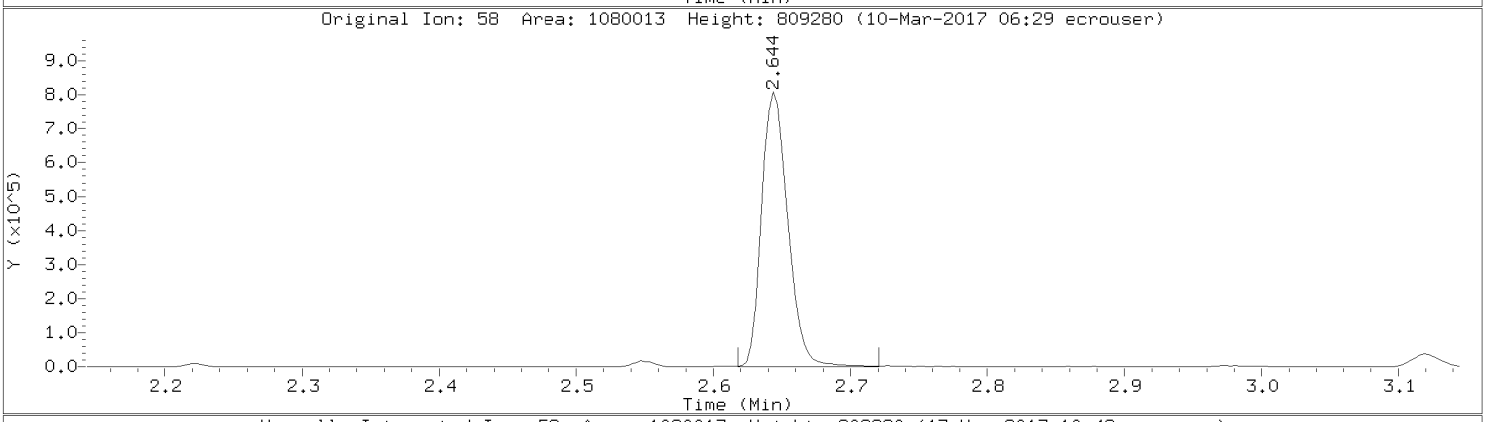


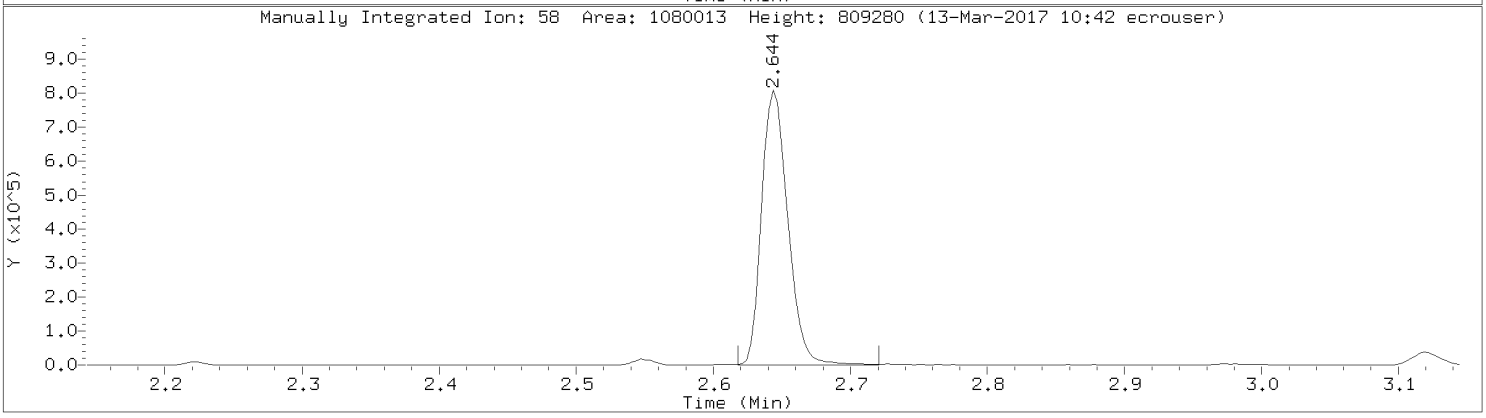
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06820.d
Injection Date: 09-MAR-2017 23:55
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: Acetone
CAS Number: 67-64-1



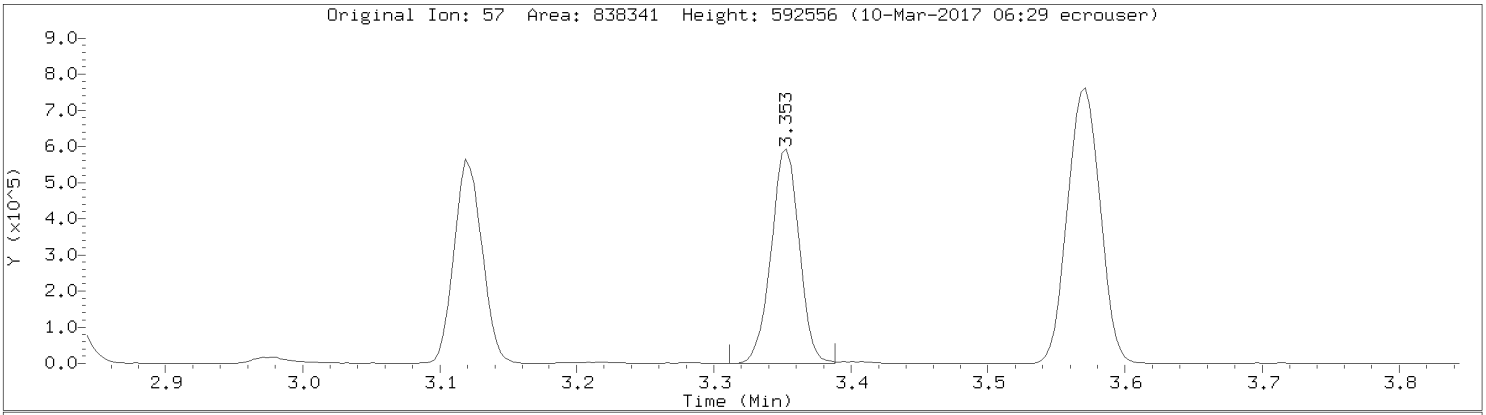


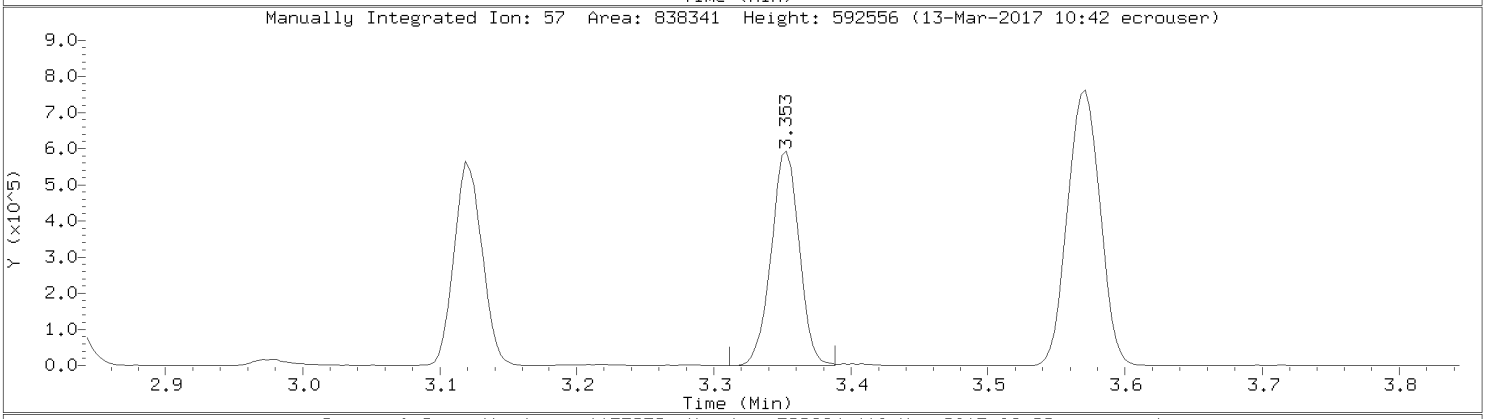


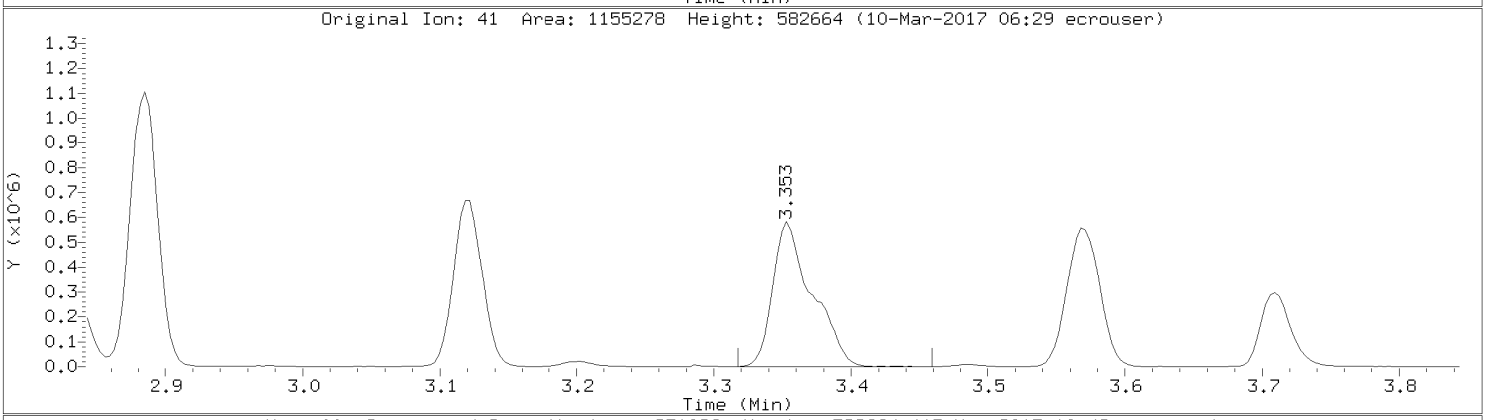


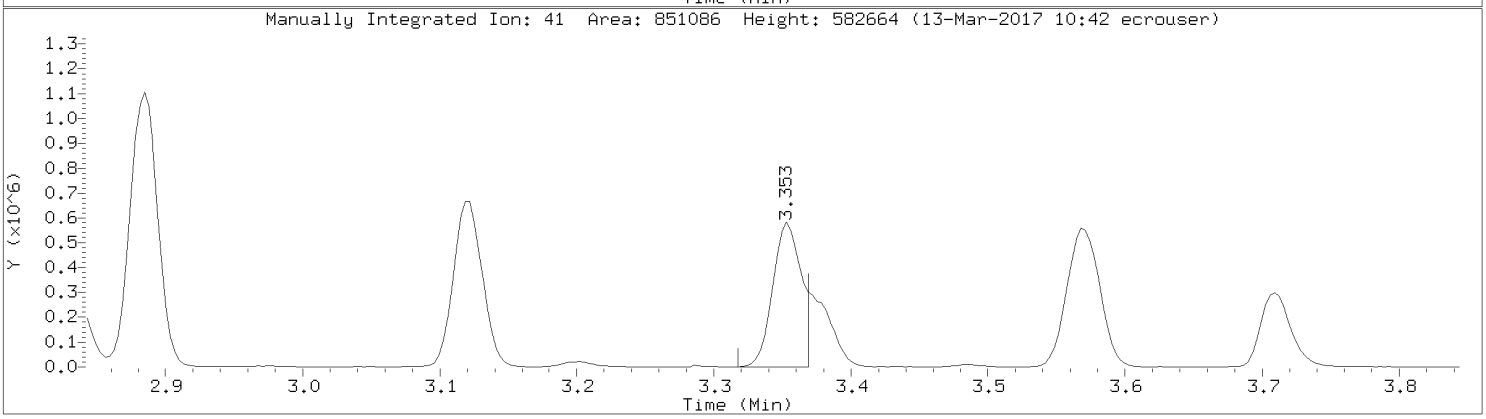
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06820.d
Injection Date: 09-MAR-2017 23:55
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: n-Hexane
CAS Number: 110-54-3

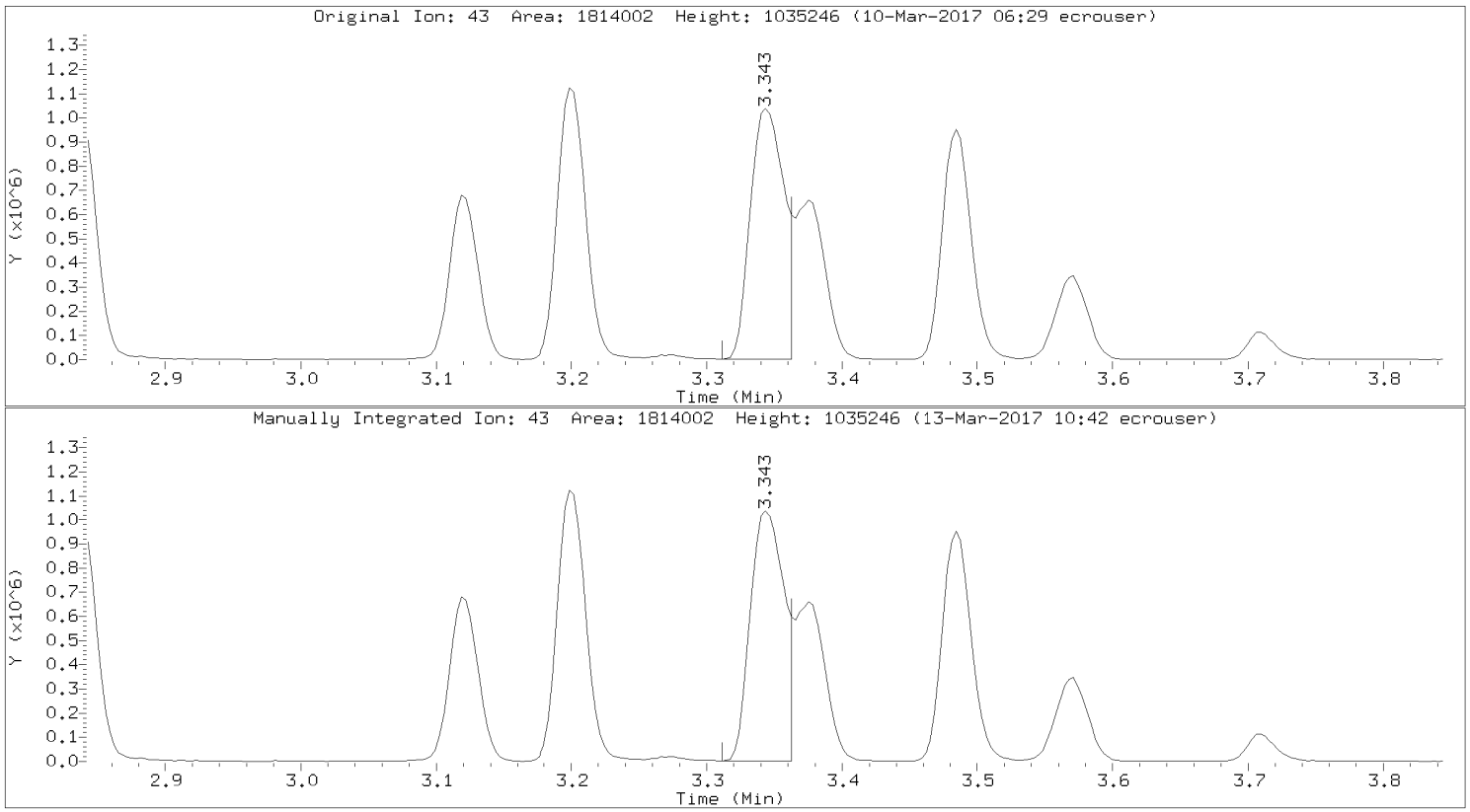






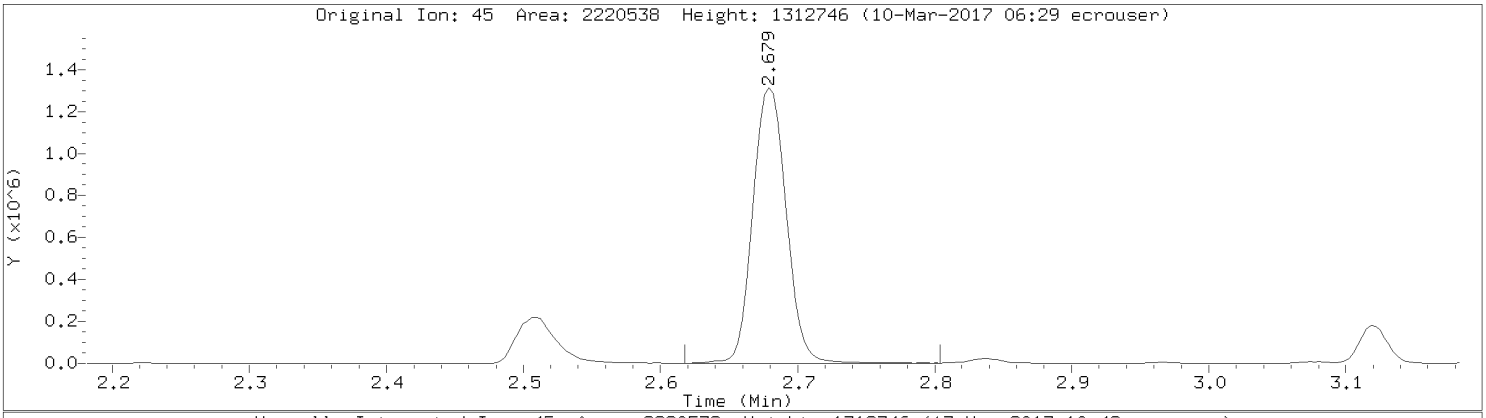


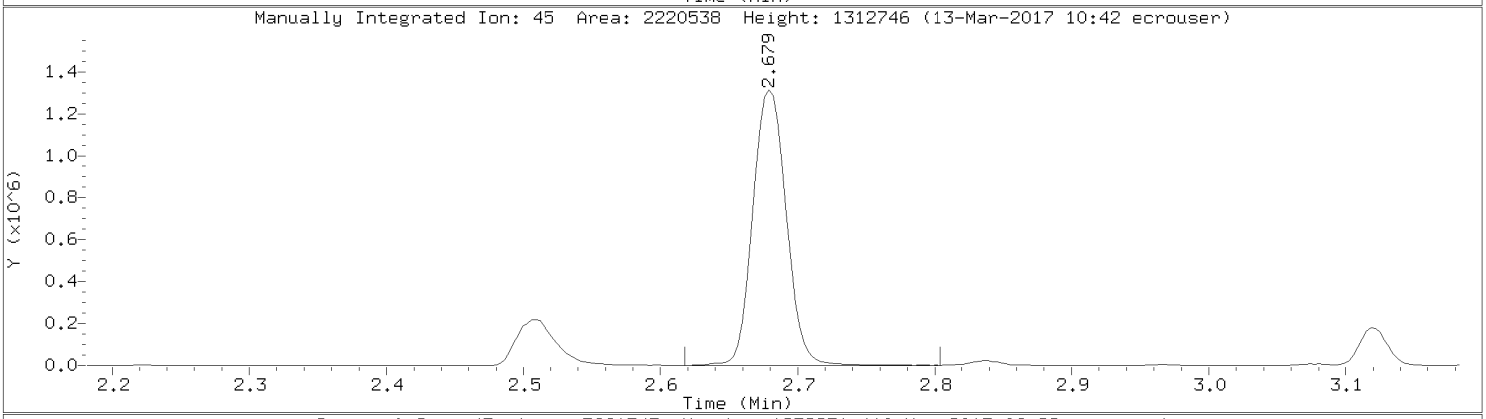
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06820.d
Injection Date: 09-MAR-2017 23:55
Instrument: 10airD.i
Lab Sample ID: CAL6

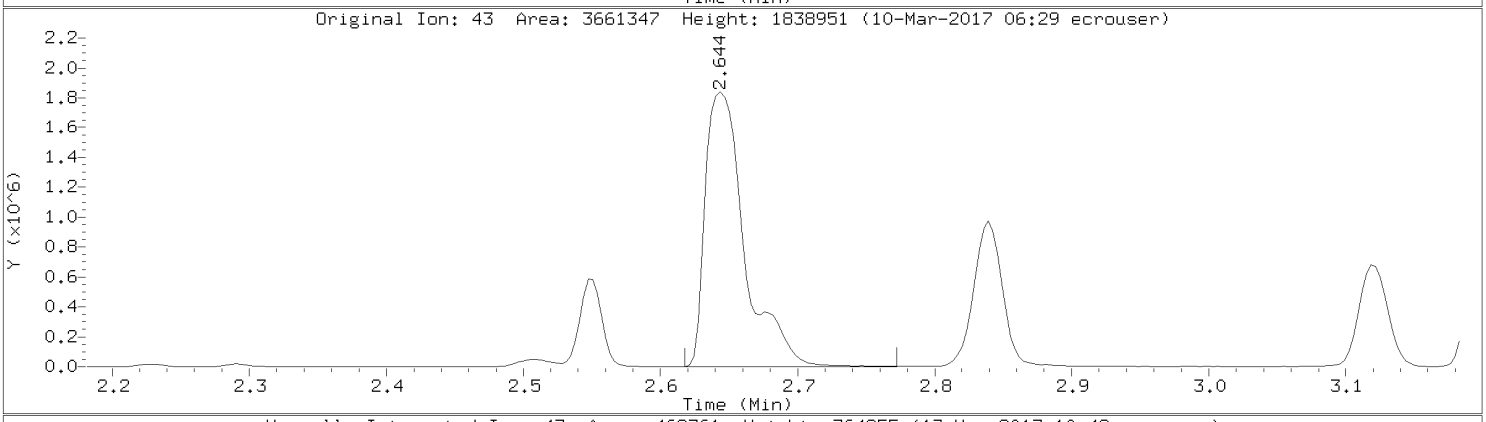


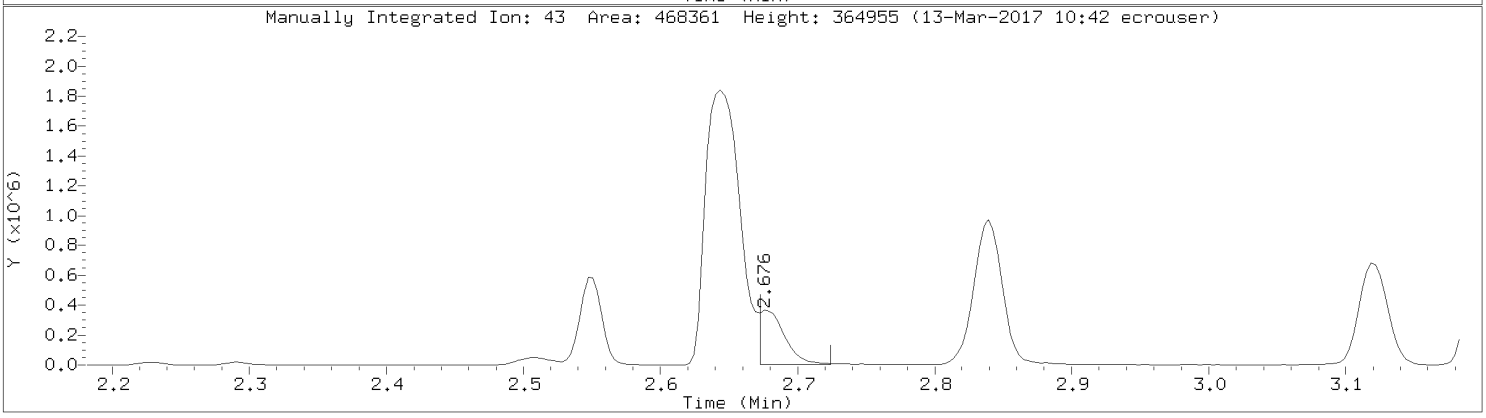
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06820.d
Injection Date: 09-MAR-2017 23:55
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



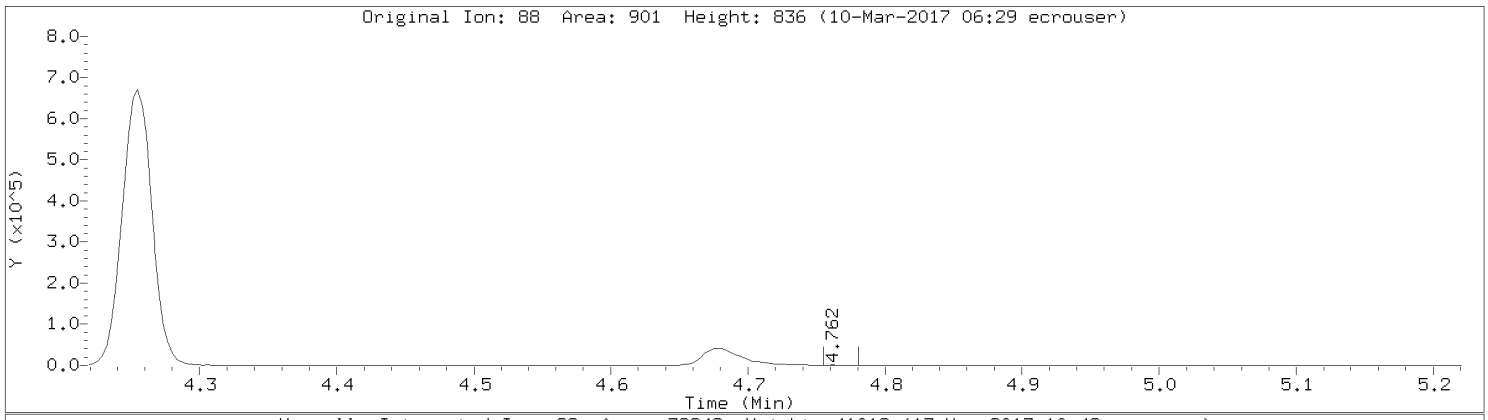


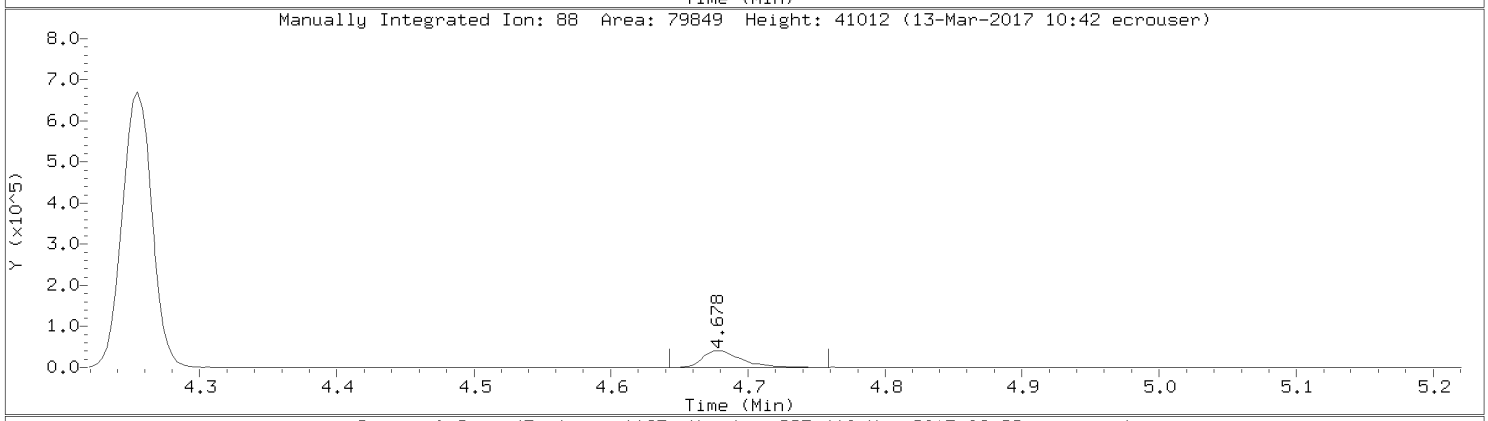


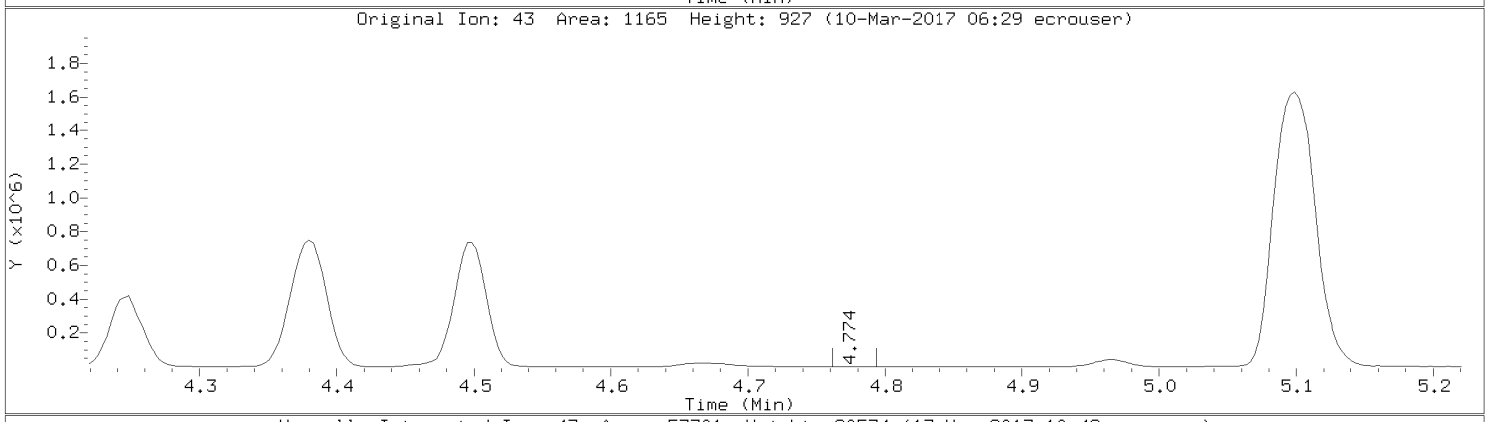


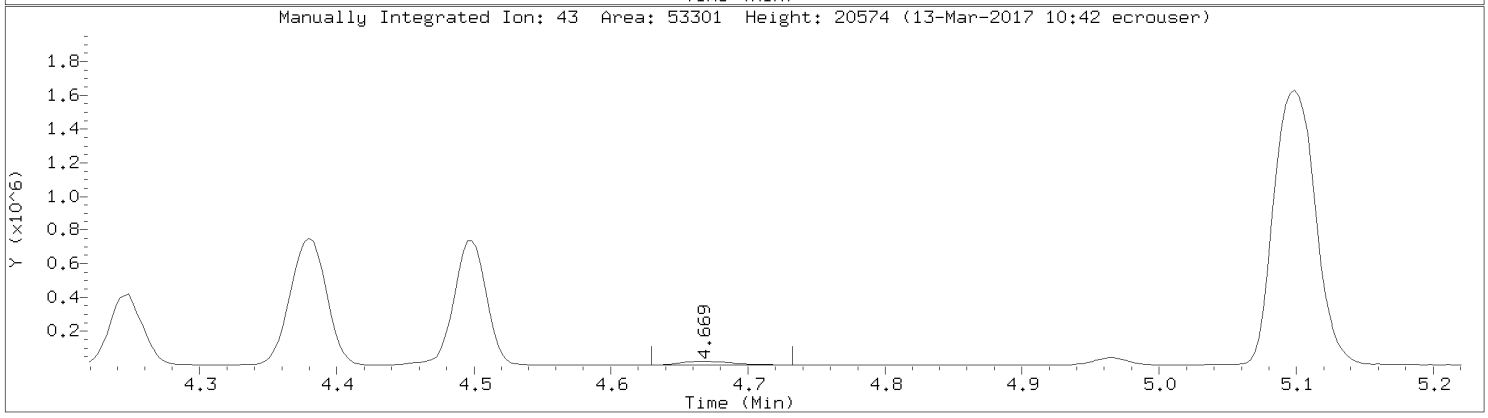
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06820.d
Injection Date: 09-MAR-2017 23:55
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: 1,4-Dioxane
CAS Number: 123-91-1









Data File: \\192.168.10.12\chem\10airD.i\030917.B\06821.d
Report Date: 13-Mar-2017 10:45

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\030917.B\06821.d
Lab Smp Id: CAL7
Inj Date : 10-MAR-2017 01:09
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 21 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.065	2.075	(0.486)	163250	30.0000	24.8
2	1,1-Difluoroethane	65	2.117	2.120	(0.498)	551303	30.0000	29.3(Q)
3	Chlorodifluoromethane	67	2.126	2.136	(0.500)	279390	30.0000	30.0(QH)
4	Propylene	41	2.133	2.136	(0.501)	1754747	30.0000	26.1
5	Dichlorodifluoromethane	85	2.152	2.155	(0.506)	1911991	30.0000	22.5(M)
6	Dichlorotetrafluoroethane	85	2.219	2.220	(0.522)	1942710	30.0000	22.6
7	Chloromethane	50	2.219	2.223	(0.522)	1074388	30.0000	27.0
8	Vinyl chloride	62	2.277	2.281	(0.535)	904023	30.0000	29.3
9	1,3-Butadiene	54	2.306	2.306	(0.542)	650180	30.0000	30.3(AQ)
10	Bromomethane	94	2.409	2.412	(0.566)	972753	30.0000	29.2
11	Chloroethane	64	2.447	2.447	(0.575)	364348	30.0000	31.1(A)
12	Ethanol	45	2.508	2.508	(0.590)	718533	150.000	121
13	Vinyl Bromide	106	2.537	2.534	(0.596)	939476	30.0000	30.1
14	Isopentane	43	2.547	2.544	(0.599)	935889	30.0000	25.3
15	Freon 123	83	2.553	2.547	(0.600)	2220353	30.0000	28.4
16	Trichlorofluoromethane	101	2.608	2.601	(0.613)	2139752	30.0000	24.1
17	Acrolein	56	2.614	2.621	(0.615)	702641	75.0000	74.9
18	Acetone	43	2.643	2.643	(0.621)	4023542	150.000	156(A)
19	Isopropyl Alcohol	45	2.682	2.682	(0.630)	3093057	150.000	103(M)
20	1,1-Dichloroethene	61	2.797	2.791	(0.658)	1485320	30.0000	28.1
21	Acrylonitrile	53	2.816	2.829	(0.662)	1463621	75.0000	77.4(AQ)
24	Tert Butyl Alcohol (TBA)	59	2.836	2.836	(0.667)	2598695	75.0000	63.5
22	Freon 113	101	2.826	2.820	(0.664)	1828675	30.0000	26.3

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06821.d
Report Date: 13-Mar-2017 10:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.839	2.839	(0.667)	1946466	30.0000	26.5
	25 Methylene chloride	49	2.874	2.865	(0.676)	3610079	150.000	151(AH)
	26 Allyl Chloride	76	2.884	2.877	(0.678)	710418	75.0000	84.9(AQ)
	27 Carbon Disulfide	76	2.967	2.967	(0.698)	2003657	30.0000	26.7
	28 trans-1,2-dichloroethene	96	3.095	3.083	(0.728)	816206	30.0000	32.5(AQ)
	29 Methyl Tert Butyl Ether	73	3.118	3.115	(0.733)	3541384	75.0000	53.6
	30 Vinyl Acetate	43	3.198	3.185	(0.752)	2321342	30.0000	30.1(AH)
	31 1,1-Dichloroethane	63	3.208	3.185	(0.754)	1606830	30.0000	28.1
$	32 Hexane-d14(S)	66	3.272	3.266	(0.769)	2070618	10.0000	10.1
	33 Methyl Ethyl Ketone	72	3.339	3.346	(0.785)	376866	30.0000	30.7(AQMH)
	34 n-Hexane	57	3.349	3.343	(0.787)	1235392	30.0000	27.8(QM)
	35 Di-isopropyl Ether	45	3.375	3.368	(0.793)	2741554	30.0000	25.5
	36 cis-1,2-Dichloroethene	96	3.474	3.452	(0.817)	913110	30.0000	32.1(A)
	37 Ethyl Acetate	43	3.484	3.490	(0.819)	2033012	30.0000	28.6(Q)
	38 Ethyl Tert-Butyl Ether	59	3.570	3.564	(0.839)	4119637	75.0000	76.7(A)
	39 Chloroform	83	3.577	3.548	(0.841)	1938003	30.0000	26.9
	40 Tetrahydrofuran	42	3.708	3.718	(0.872)	1046945	30.0000	29.2
	41 1,1,1-Trichloroethane	97	3.907	3.895	(0.919)	2046005	30.0000	28.3
	42 1,2-Dichloroethane	62	3.920	3.904	(0.922)	1500719	30.0000	28.6
	43 Benzene	78	4.109	4.097	(0.966)	2261810	30.0000	26.6
	45 Carbon tetrachloride	117	4.122	4.113	(0.969)	2049201	30.0000	30.1(A)
	44 Cyclohexane	56	4.122	4.119	(0.969)	1149530	30.0000	26.2(Q)
	46 Tert Amyl Methyl Ether	73	4.247	4.241	(0.998)	2341559	30.0000	29.9(Q)
*	47 1,4-Difluorobenzene	114	4.254	4.238	(1.000)	3859687	10.0000	
	48 2,2,4-Trimethylpentane	57	4.379	4.366	(1.029)	5176367	75.0000	(aQ)
	49 Heptane	43	4.498	4.479	(1.057)	1783472	30.0000	26.9
	50 1,2-Dichloropropane	63	4.562	4.546	(1.072)	1120510	30.0000	28.6
	51 Trichloroethene	130	4.578	4.565	(1.076)	1346079	30.0000	28.9
	52 Methyl methacrylate	69	4.658	4.662	(1.095)	968209	30.0000	31.4(A)
	53 Bromodichloromethane	83	4.671	4.655	(1.098)	2355564	30.0000	29.3
	54 1,4-Dioxane	88	4.677	4.719	(1.100)	134155	30.0000	20.9(M)
	55 Methylcyclohexane	98	4.963	4.947	(1.167)	521403	30.0000	29.0
	56 Methyl Isobutyl Ketone	43	5.101	5.101	(1.199)	4349059	75.0000	75.8(AQ)
	57 cis-1,3-Dichloropropene	75	5.136	5.130	(1.207)	1665238	30.0000	31.5(AQ)
	58 trans-1,3-Dichloropropene	75	5.512	5.502	(1.296)	1565108	30.0000	30.0(M)
$	59 Toluene-d8 (S)	98	5.573	5.557	(1.310)	3933048	10.0000	10.2
	60 Toluene	91	5.640	5.627	(1.326)	2898532	30.0000	25.4
	61 1,1,2-Trichloroethane	97	5.653	5.634	(1.329)	1297018	30.0000	29.4
	62 Methyl Butyl Ketone	43	5.887	5.897	(0.837)	4391970	75.0000	54.3(Q)
	63 n-Octane	43	6.061	6.048	(0.861)	2192587	30.0000	26.1
	64 Dibromochloromethane	129	6.134	6.115	(0.872)	2575829	30.0000	30.9(A)
	65 1,2-Dibromoethane	107	6.346	6.340	(0.902)	2173197	30.0000	30.1(A)
	66 Tetrachloroethene	166	6.410	6.394	(0.911)	2066383	30.0000	27.6
*	67 Chlorobenzene - d5	117	7.036	7.026	(1.000)	3391396	10.0000	
	68 Chlorobenzene	112	7.078	7.065	(1.006)	2477919	30.0000	27.1(Q)
	69 Ethyl Benzene	91	7.322	7.312	(1.041)	3528528	30.0000	23.7
	70 m&p-Xylene	91	7.466	7.453	(1.061)	4603197	60.0000	60.2(A)
	71 Bromoform	173	7.832	7.829	(1.113)	2712331	30.0000	29.9
	72 n-Nonane	43	7.864	7.858	(1.118)	2114374	30.0000	27.2
	73 Styrene	104	7.874	7.874	(1.119)	2299611	30.0000	30.5(A)
	74 o-Xylene	91	7.938	7.925	(1.128)	3038684	30.0000	24.8
	75 1,1,2,2-Tetrachloroethane	83	8.201	8.191	(1.166)	2350560	30.0000	28.8
	76 Isopropylbenzene	105	8.506	8.496	(1.209)	3546005	30.0000	23.3
	77 N-Propylbenzene	91	9.061	9.051	(1.288)	3975120	30.0000	24.9

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06821.d
Report Date: 13-Mar-2017 10:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	9.234	9.228	(1.312)	3483506	30.0000	26.7
79	1,3,5-Trimethylbenzene	105	9.327	9.318	(1.326)	3073091	30.0000	29.9
80	n-Decane	57	9.731	9.719	(2.288)	1847983	30.0000	29.5
81	Tert-Butyl Benzene	119	9.818	9.809	(1.395)	3176155	30.0000	26.4
82	1,2,4-Trimethylbenzene	105	9.837	9.825	(1.398)	2945609	30.0000	29.9
83	1,3-Dichlorobenzene	146	10.133	10.133	(1.440)	2274736	30.0000	28.6(M)
84	Sec- Butylbenzene	105	10.161	10.146	(1.444)	3808567	30.0000	25.5
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.203	10.194	(1.450)	2307806	10.0000	11.1
86	Benzyl Chloride	91	10.229	10.219	(1.454)	2289259	30.0000	27.7
87	1,4-Dichlorobenzene	146	10.248	10.235	(1.456)	2164661	30.0000	26.1(Q)
88	p-Isopropyltoluene	119	10.383	10.370	(1.476)	3517275	30.0000	26.4
89	1,2,3-Trimethylbenzene	105	10.425	10.415	(1.482)	2908204	30.0000	27.9
90	1,2-Dichlorobenzene	146	10.710	10.704	(1.522)	2022251	30.0000	27.5
91	N-Butylbenzene	91	10.973	10.970	(1.560)	2970113	30.0000	27.2
92	1,2-Dibromo-3-Chloropropane	157	11.528	11.541	(1.638)	453972	30.0000	27.0(Q)
93	1,2,4-Trichlorobenzene	180	12.835	12.851	(1.824)	572040	30.0000	28.9
94	Naphthalene	128	12.956	12.966	(1.841)	958104	30.0000	27.0
95	Hexachlorobutadiene	225	13.213	13.223	(1.878)	821685	30.0000	27.8

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06821.d
Report Date: 13-Mar-2017 10:45

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06821.d
Lab Smp Id: CAL7
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

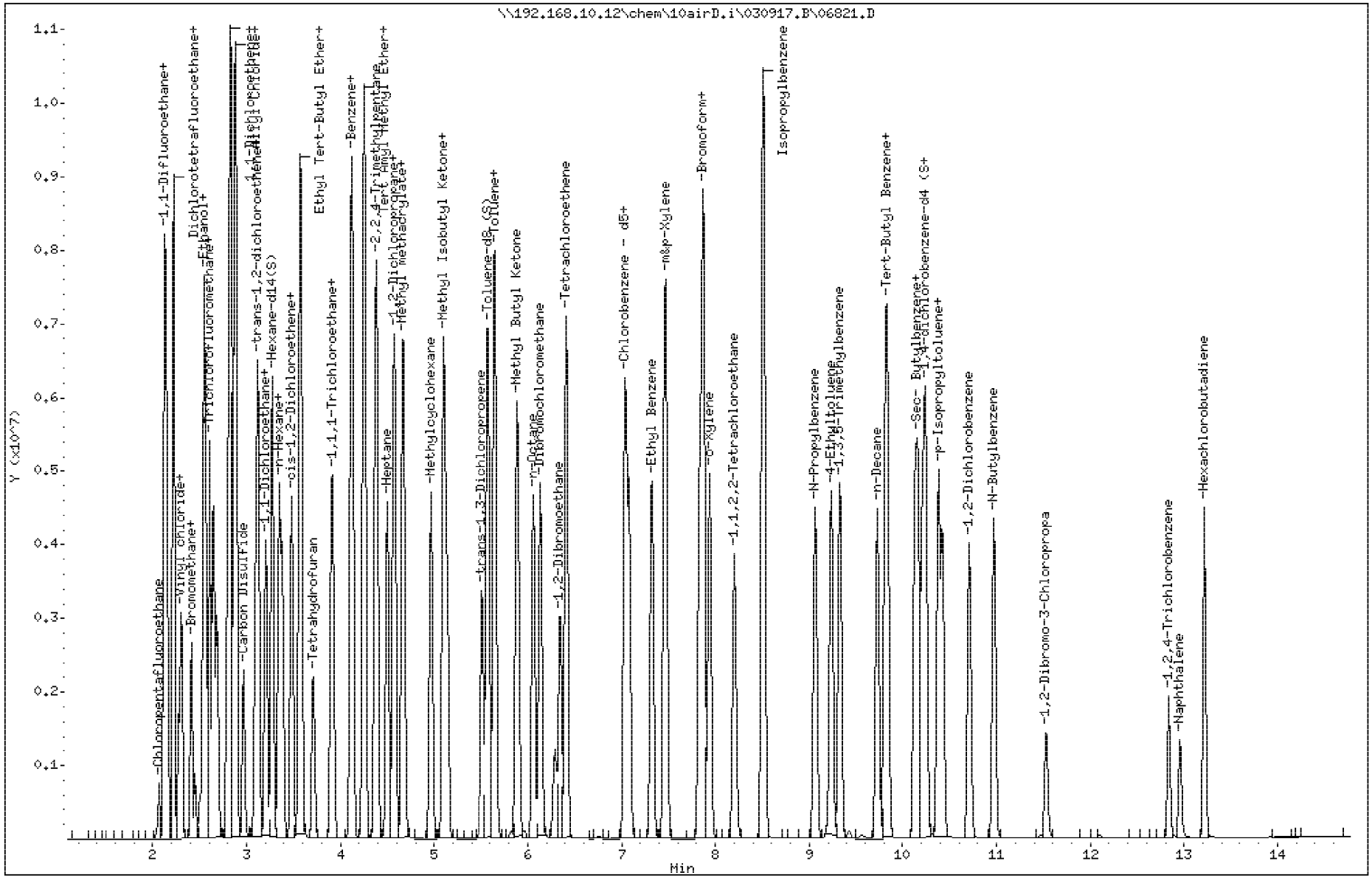
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3859687	1.90
67 Chlorobenzene - d	3280875	1968525	4593225	3391396	3.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.04	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

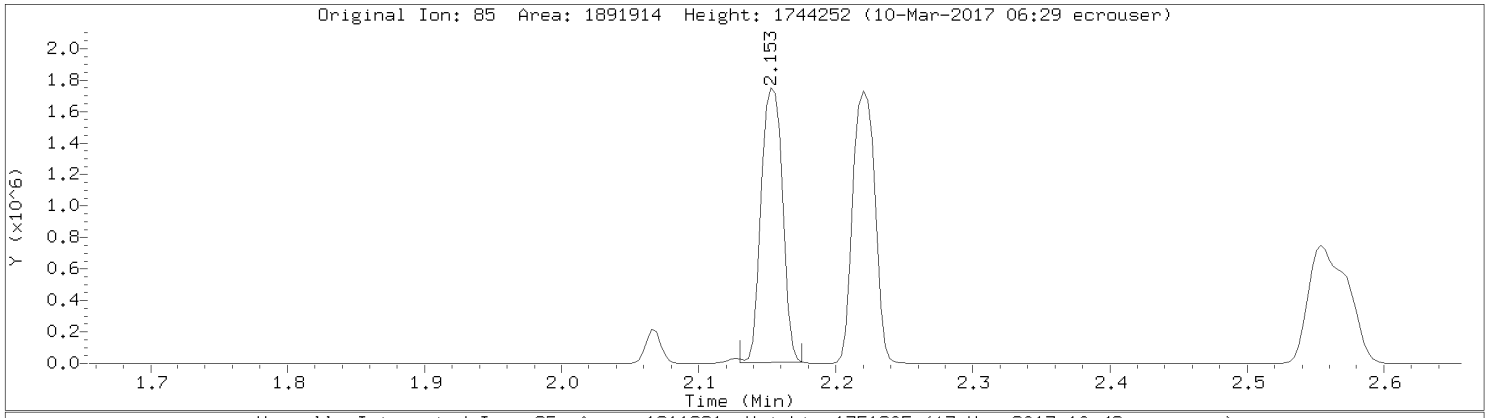
Data File: \\192.168.10.12\chem\10airD.i\030917.B\06821.D
Date : 10-MAR-2017 01:09
Client ID:
Sample Info:

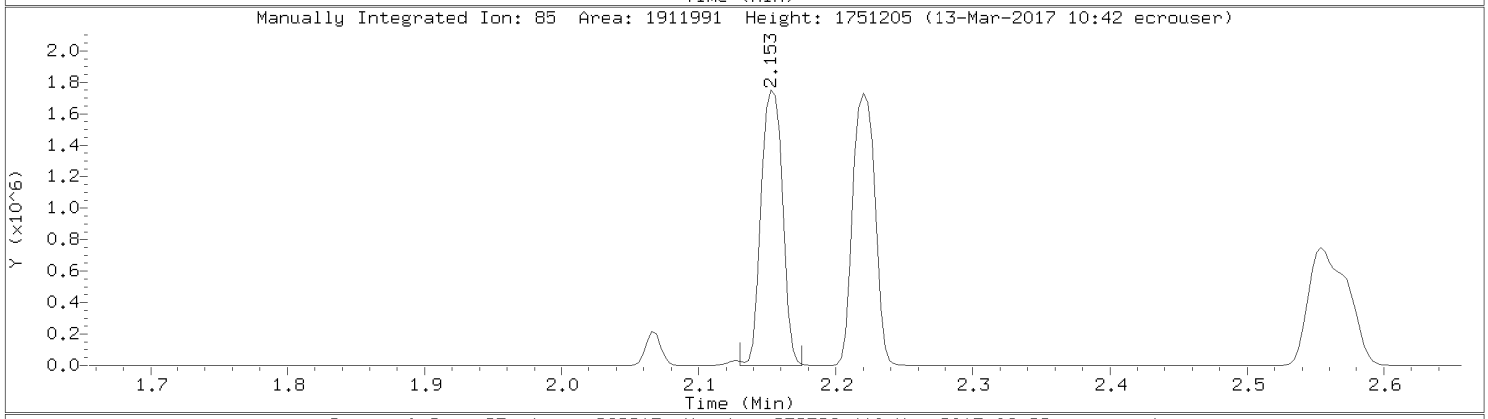
Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

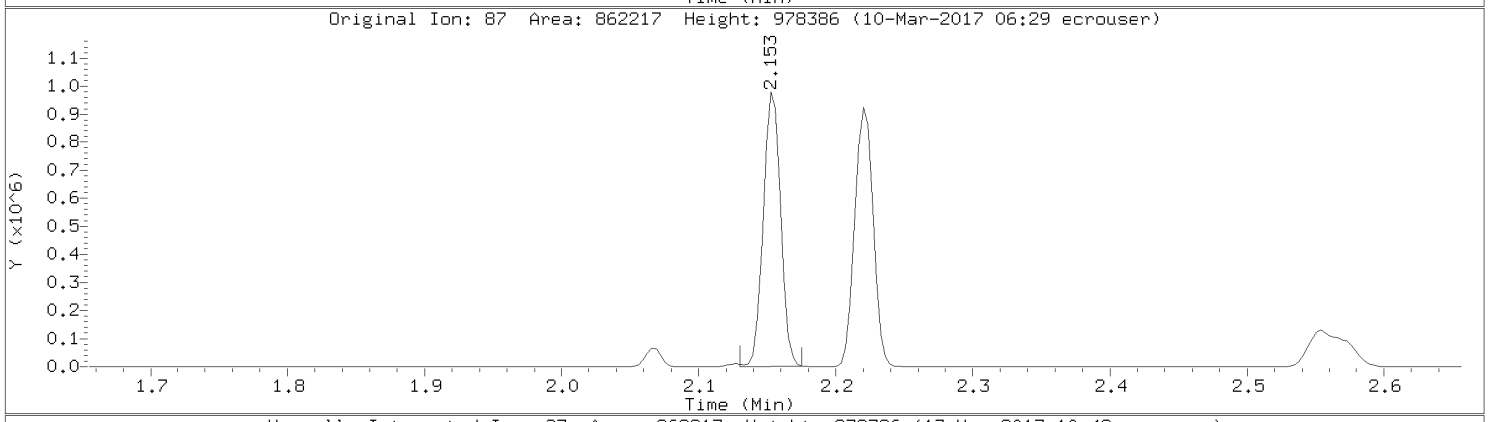


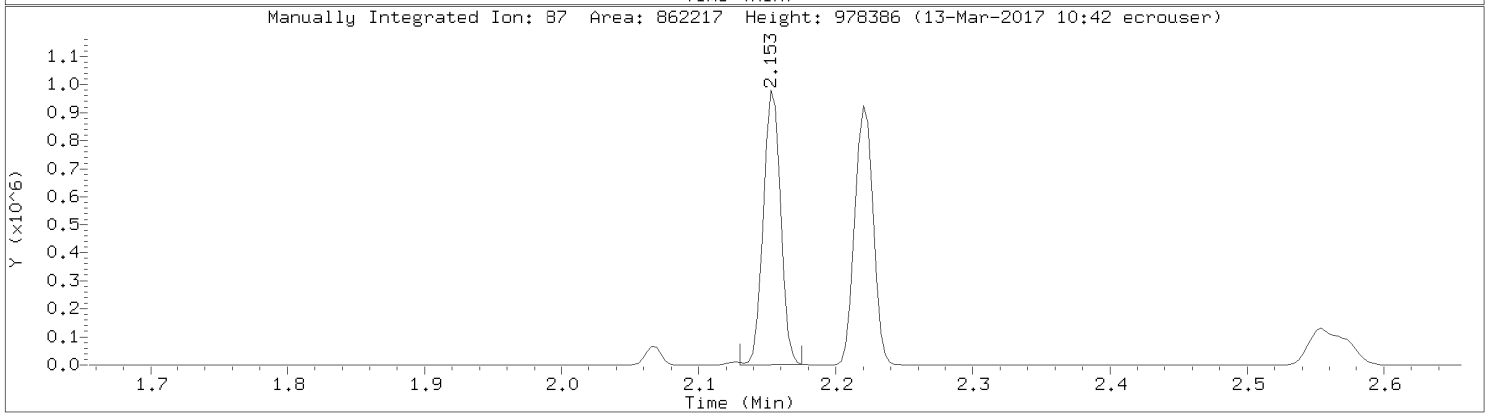
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06821.d
Injection Date: 10-MAR-2017 01:09
Instrument: 10airD.i
Lab Sample ID: CAL7

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



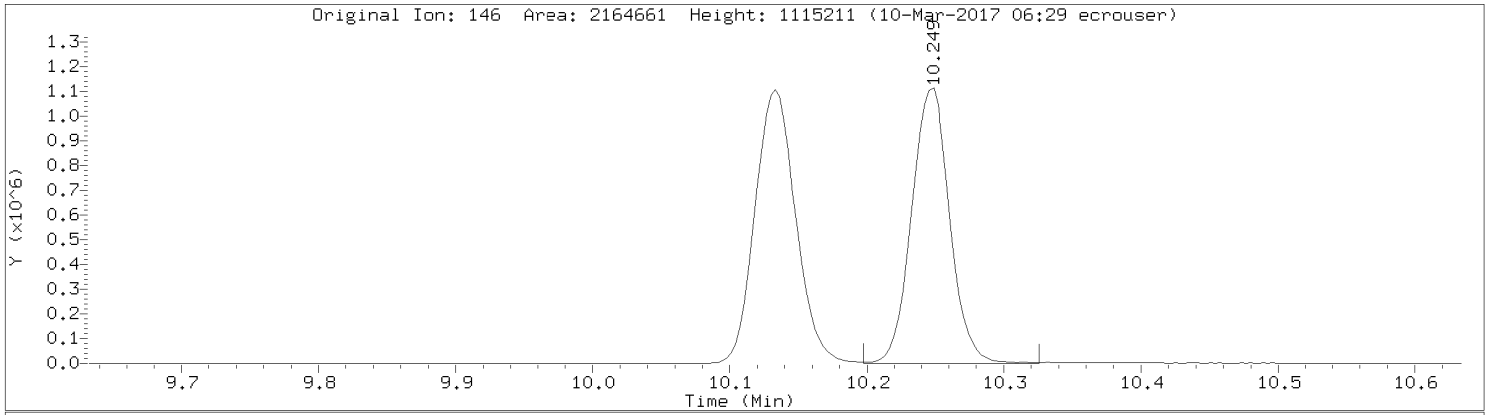


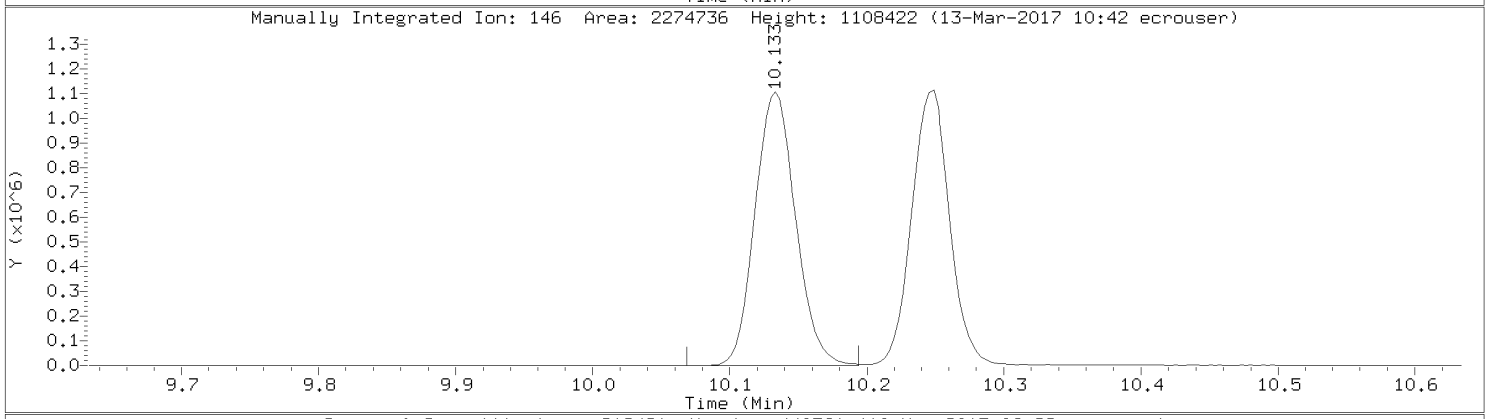


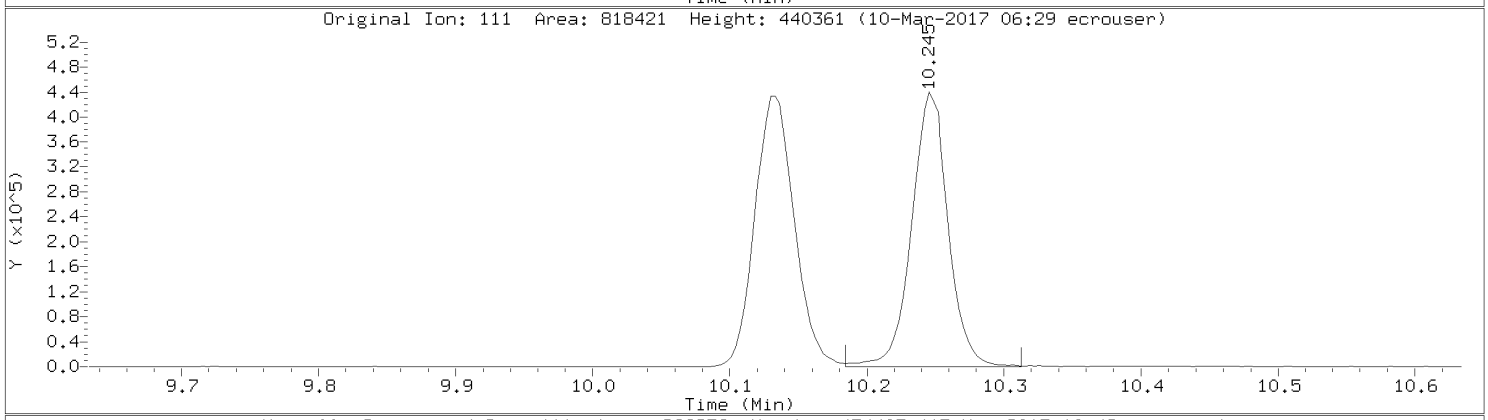


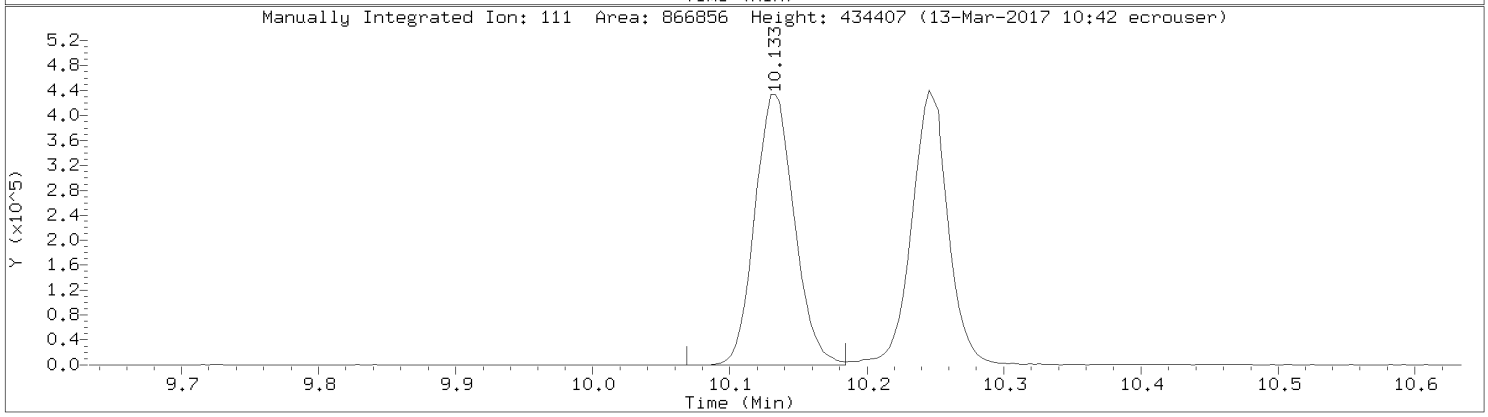
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06821.d
Injection Date: 10-MAR-2017 01:09
Instrument: 10airD.i
Lab Sample ID: CAL7

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

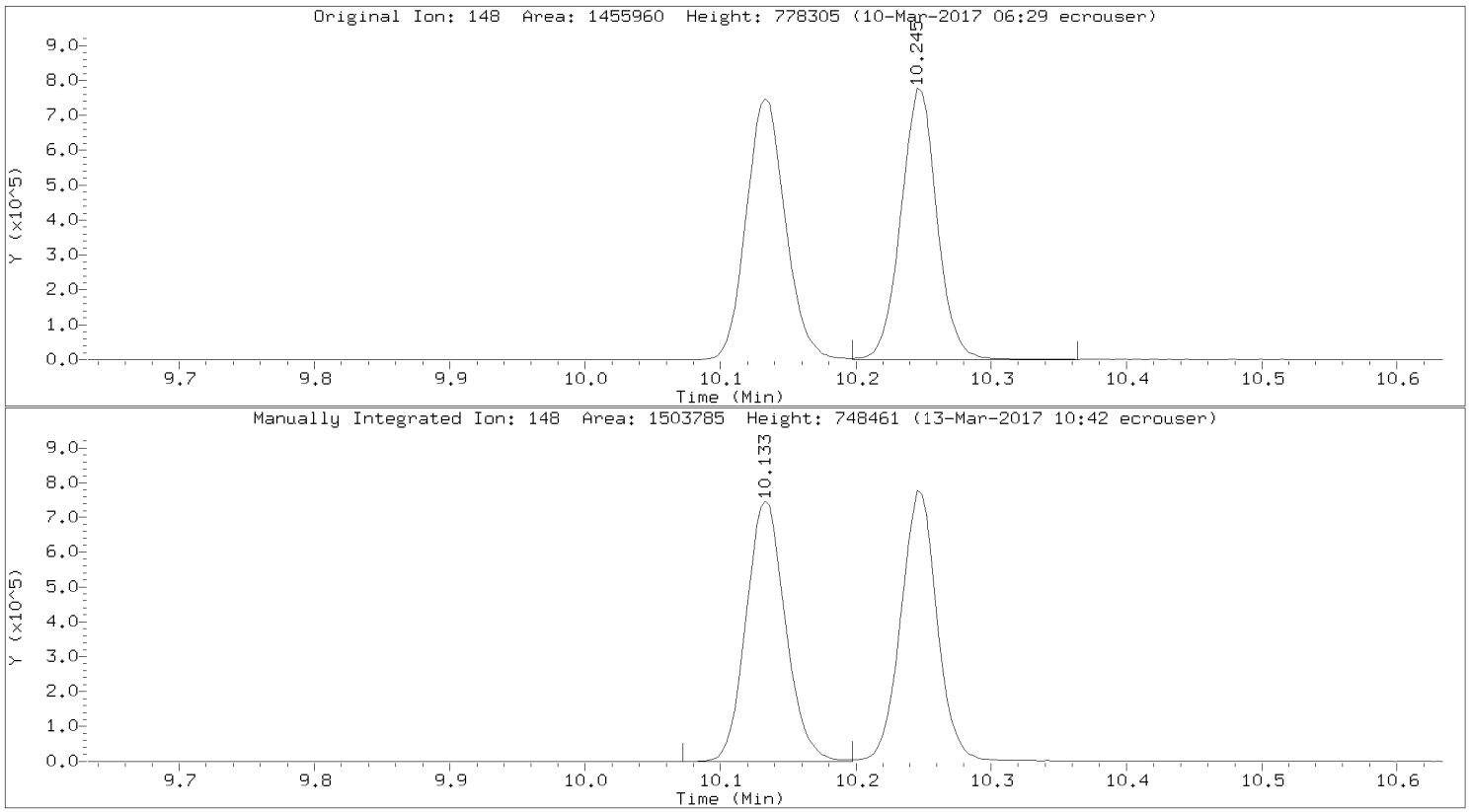






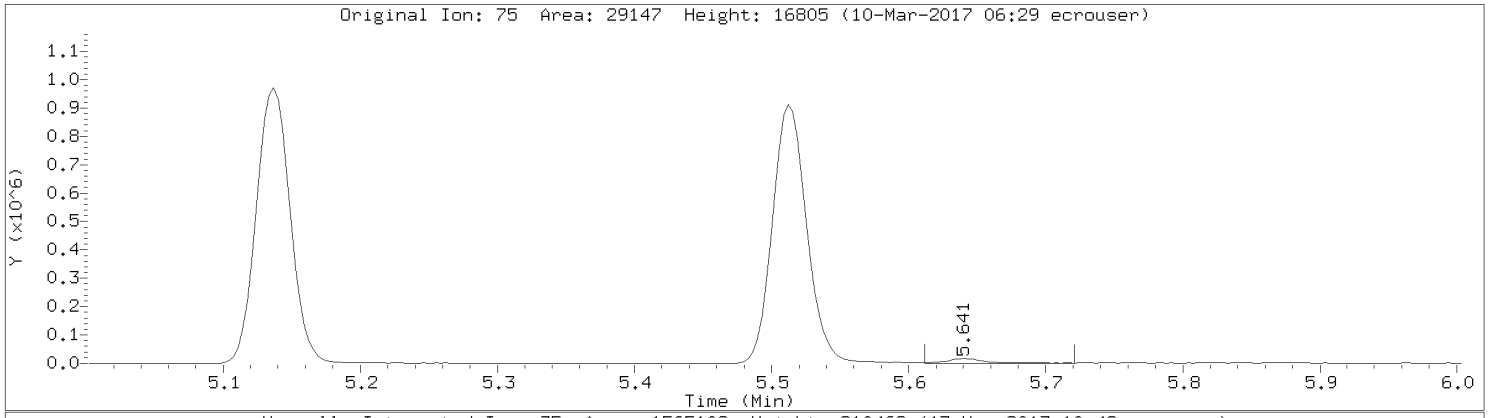


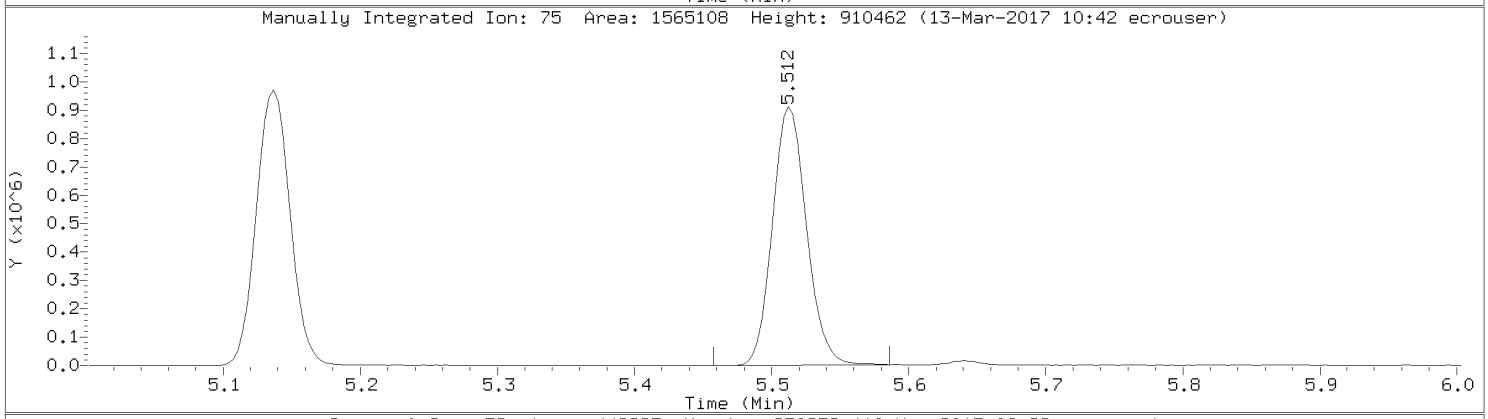
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06821.d
Injection Date: 10-MAR-2017 01:09
Instrument: 10airD.i
Lab Sample ID: CAL7

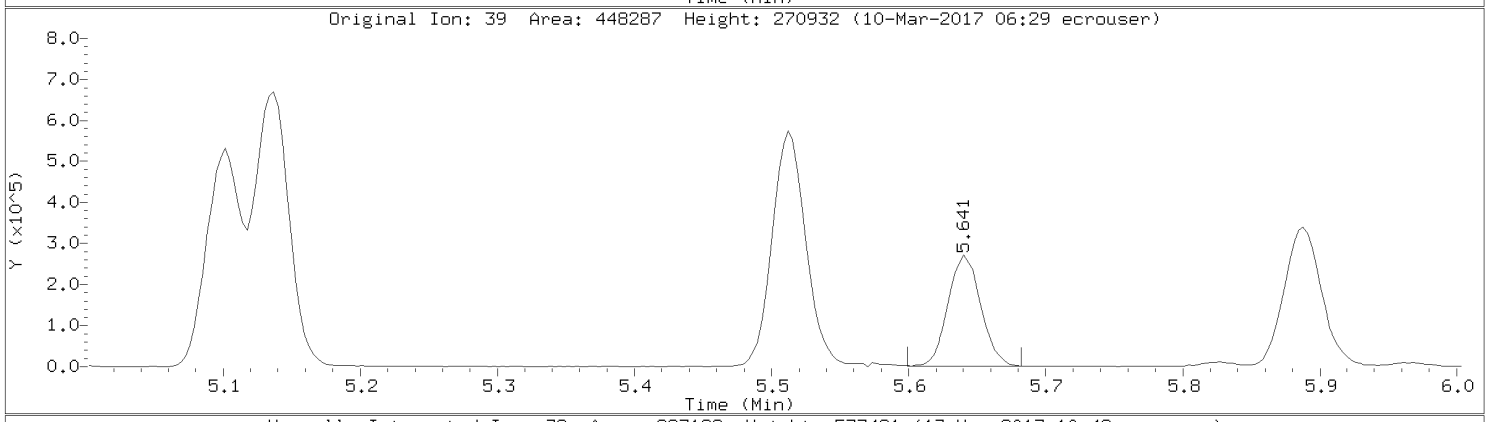


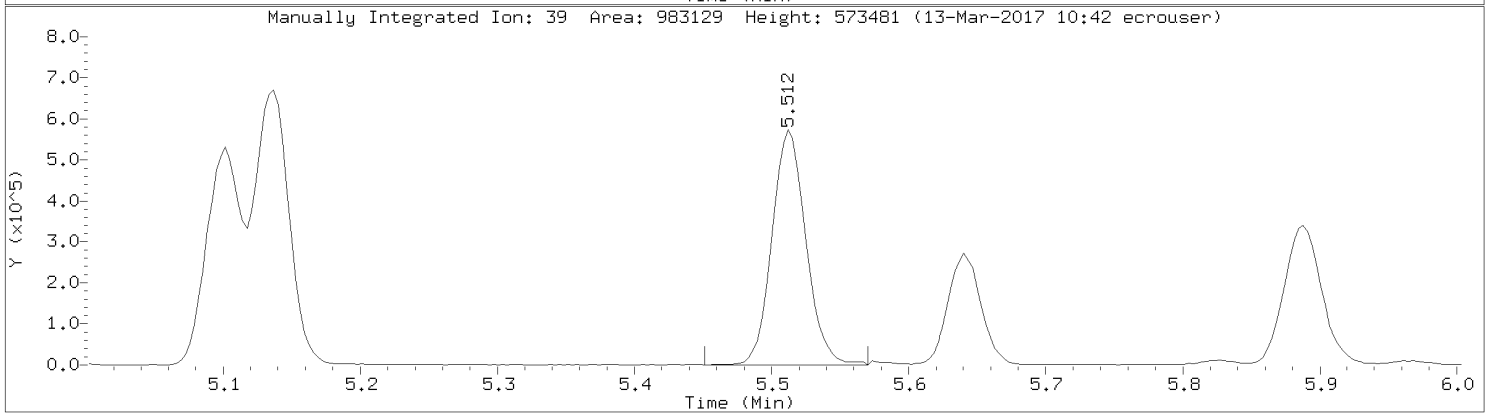
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06821.d
Injection Date: 10-MAR-2017 01:09
Instrument: 10airD.i
Lab Sample ID: CAL7

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

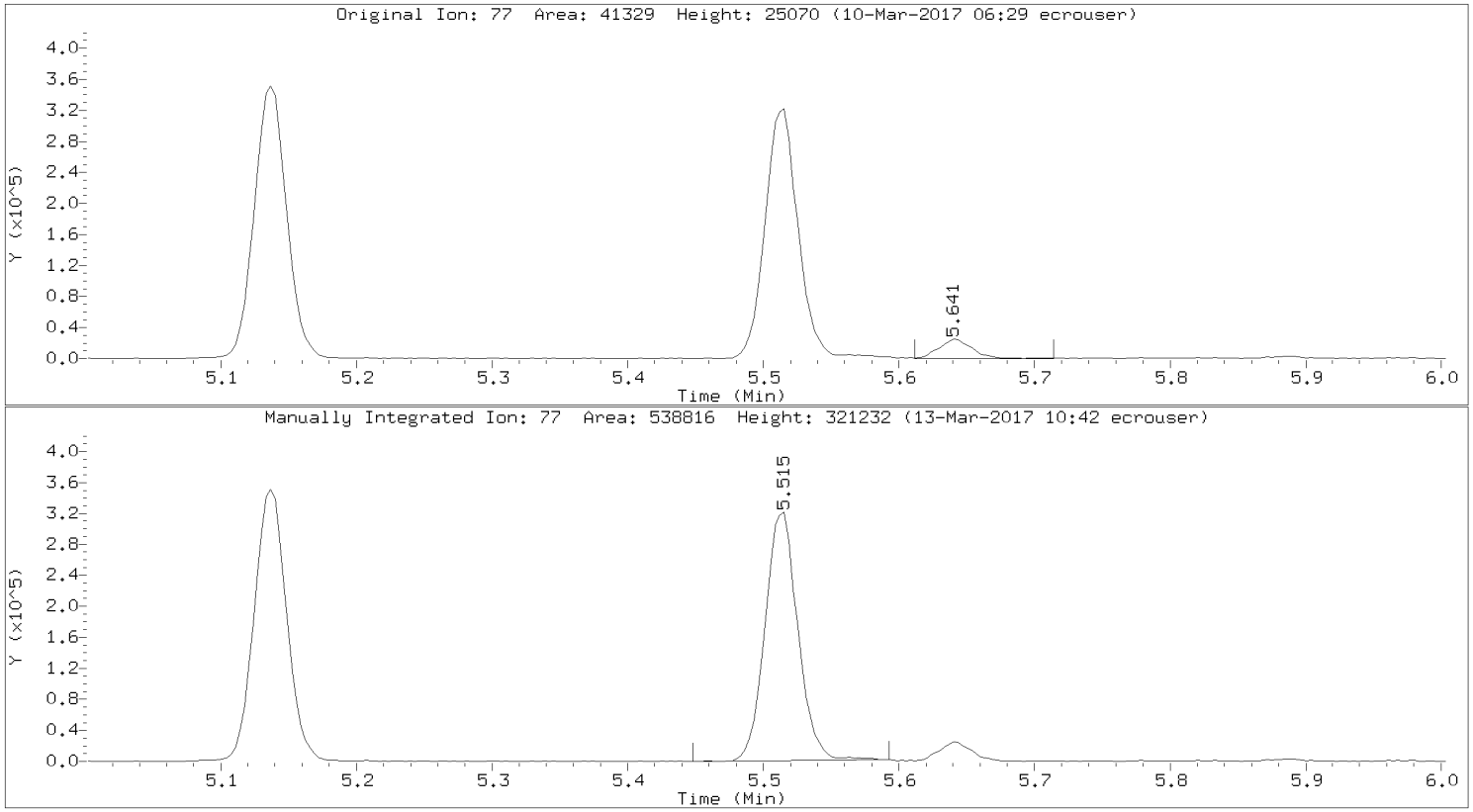






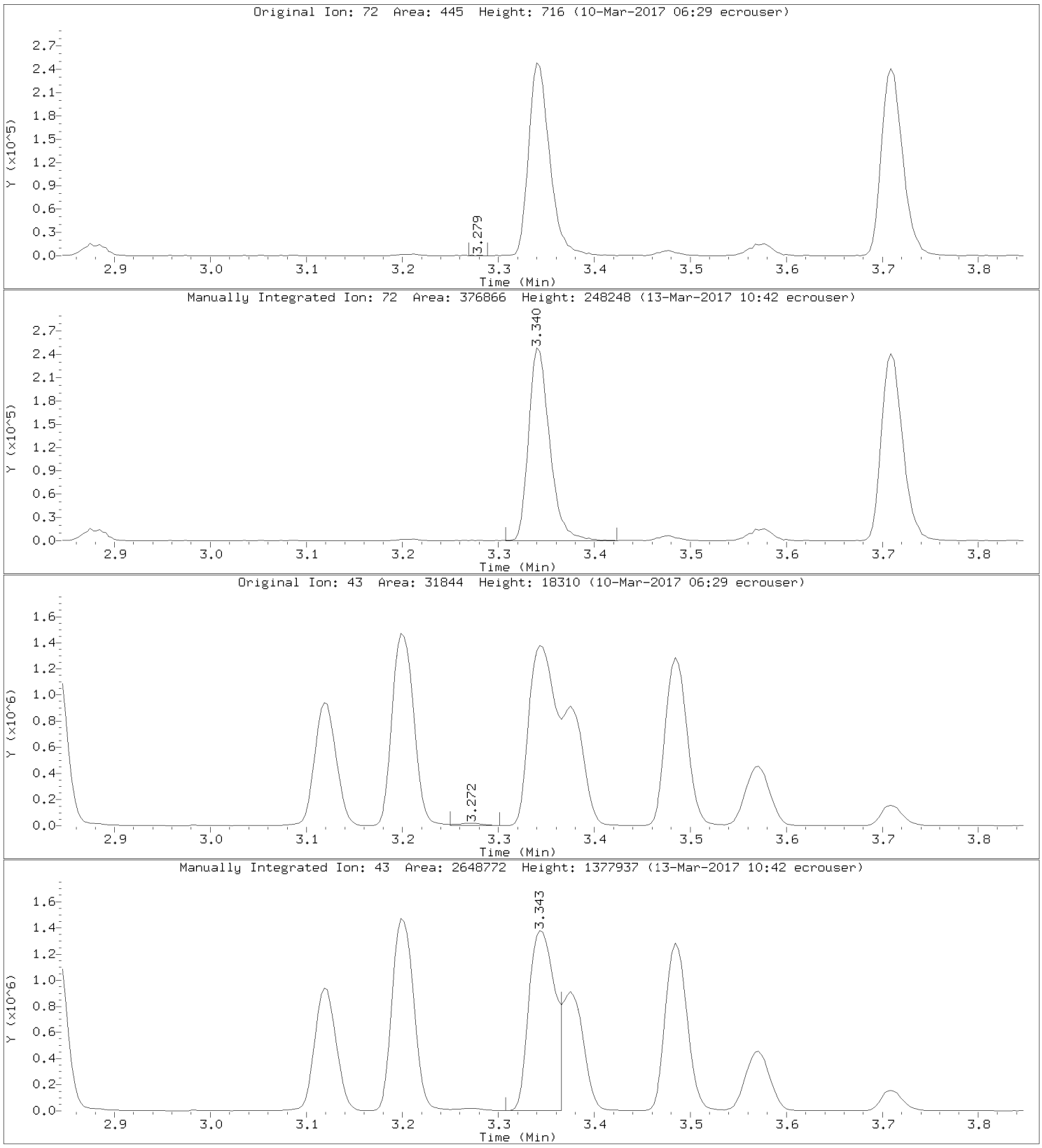


Data File: \\192.168.10.12\chem\10airD.i\030917.B/06821.d
Injection Date: 10-MAR-2017 01:09
Instrument: 10airD.i
Lab Sample ID: CAL7



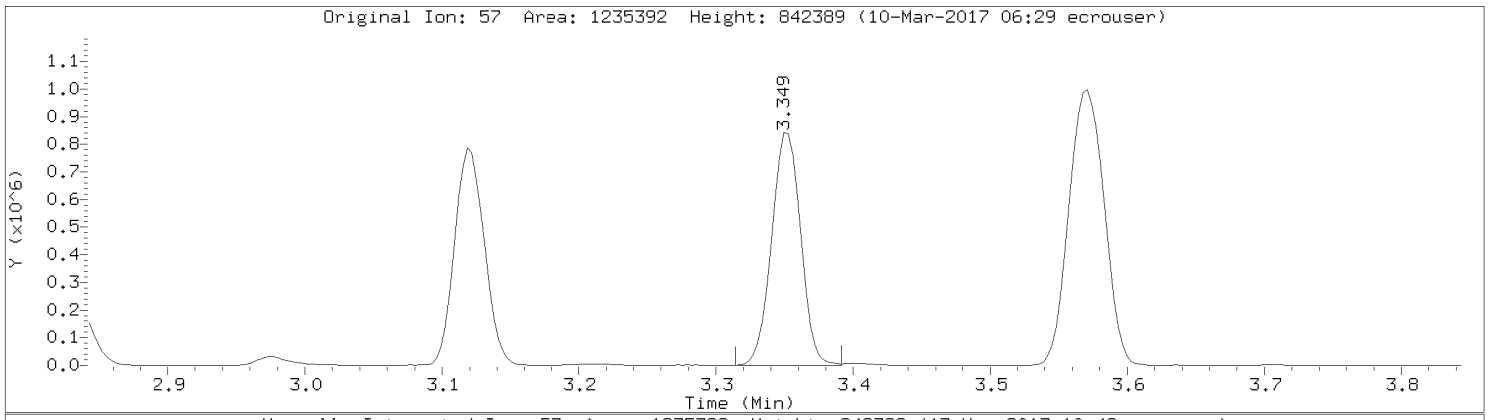
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06821.d
Injection Date: 10-MAR-2017 01:09
Instrument: 10airD.i
Lab Sample ID: CAL7

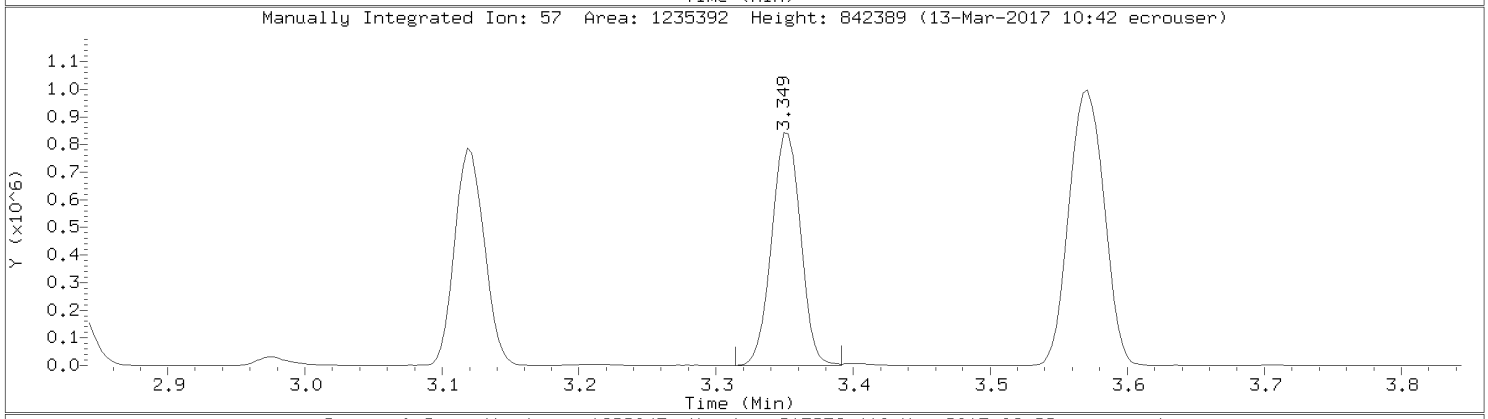
Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

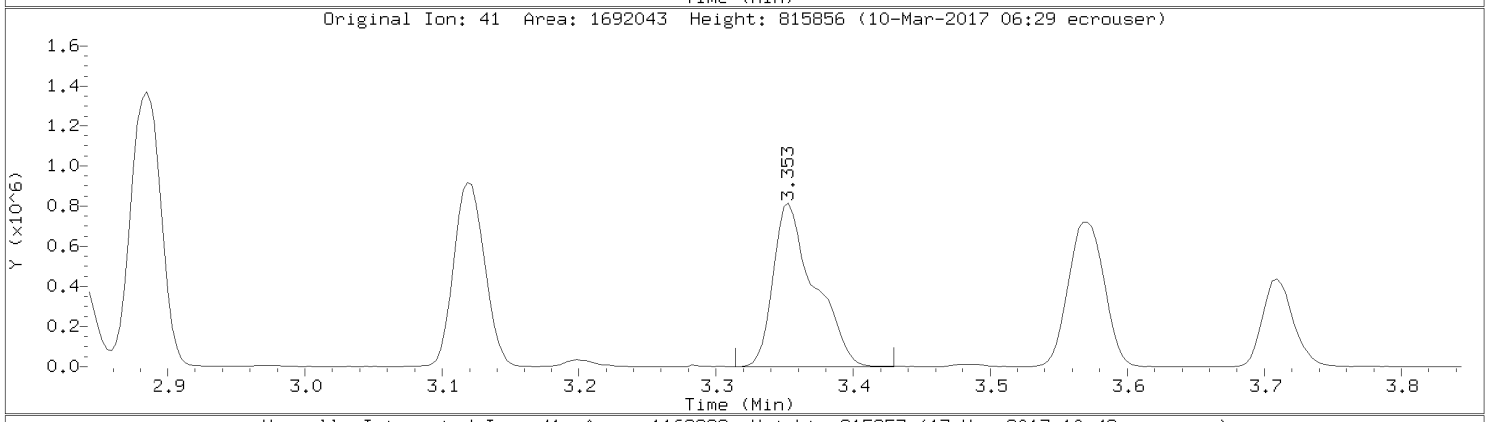


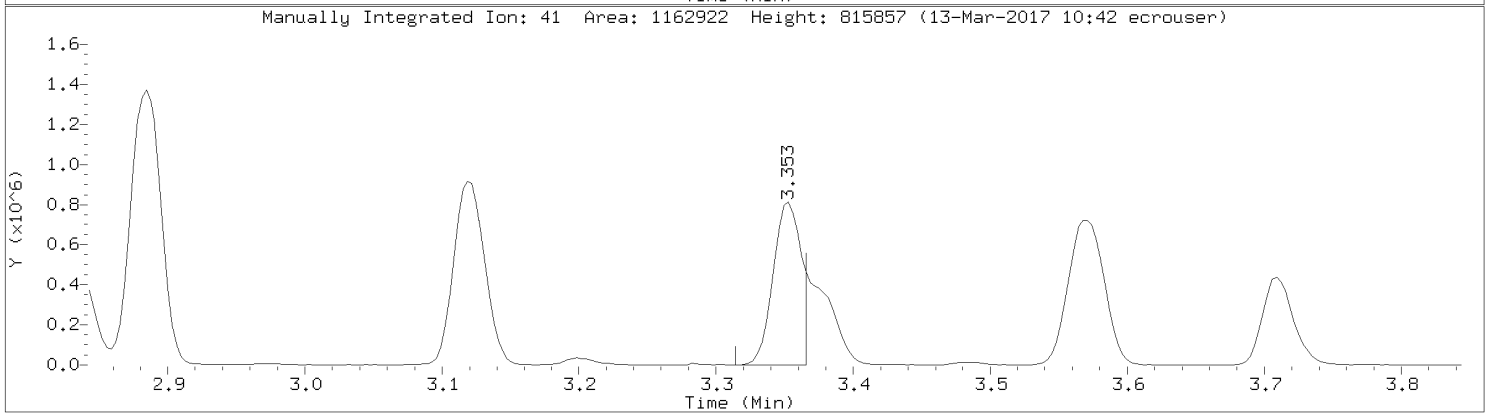
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06821.d
Injection Date: 10-MAR-2017 01:09
Instrument: 10airD.i
Lab Sample ID: CAL7

Compound: n-Hexane
CAS Number: 110-54-3

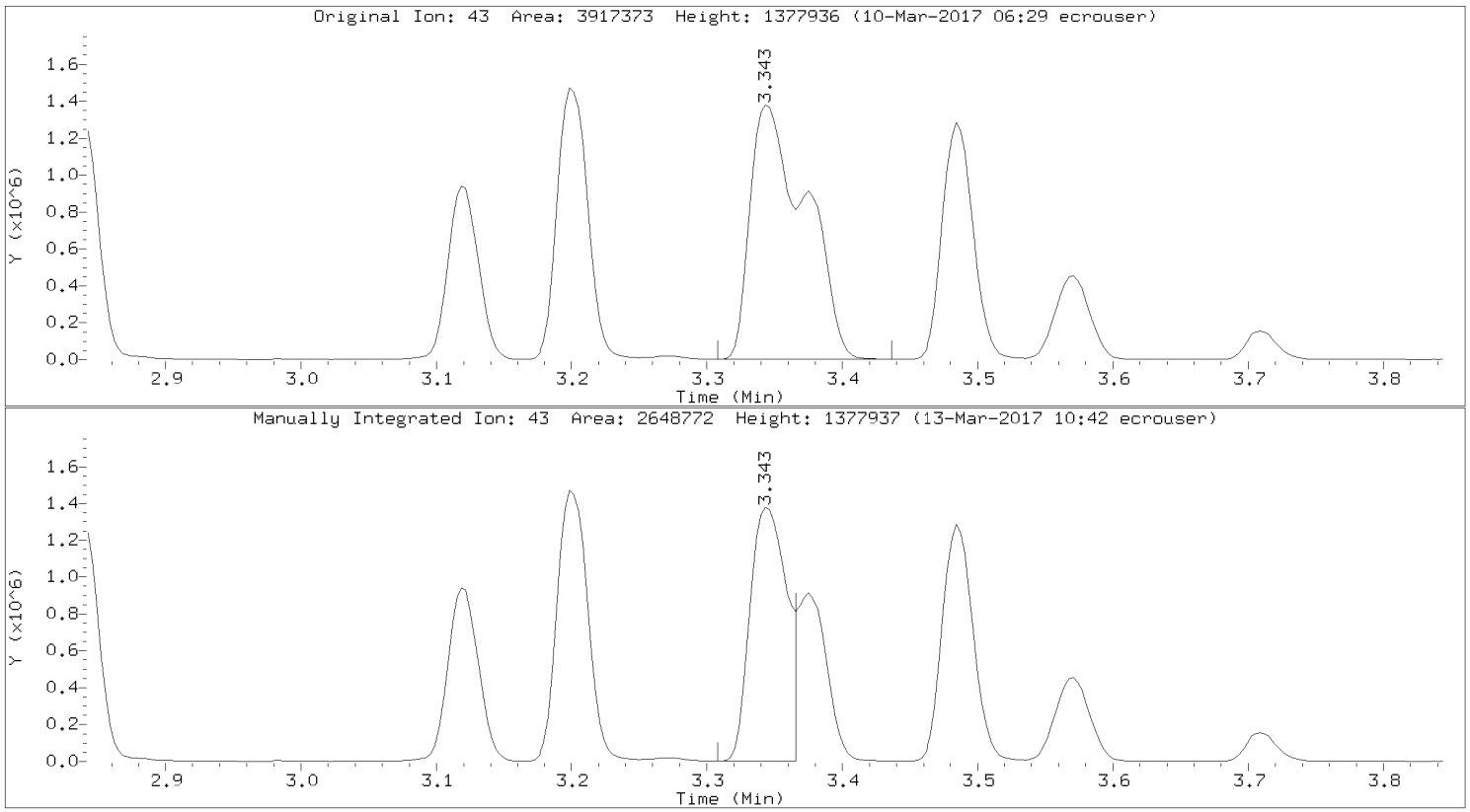






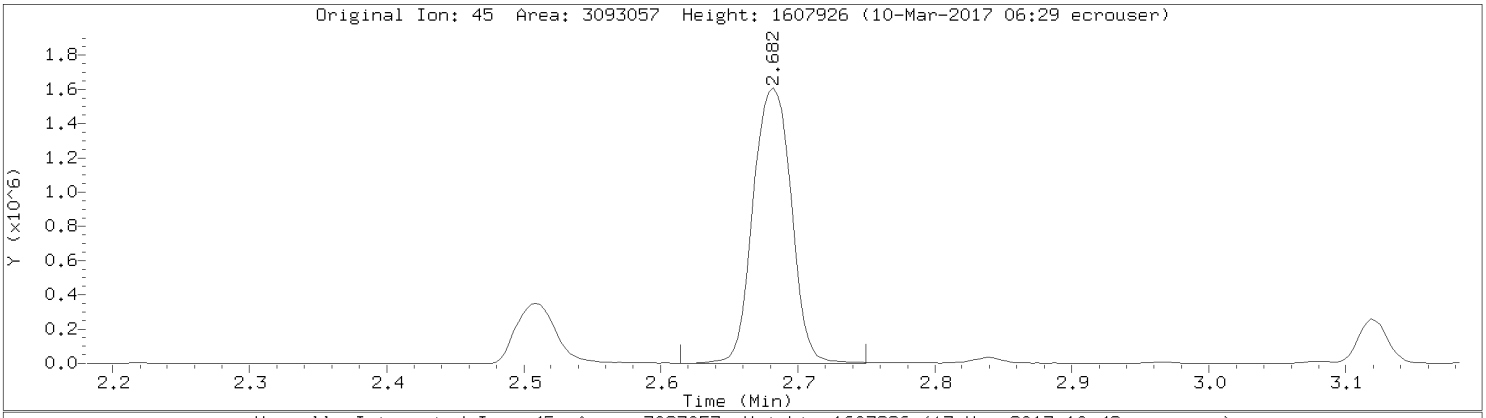


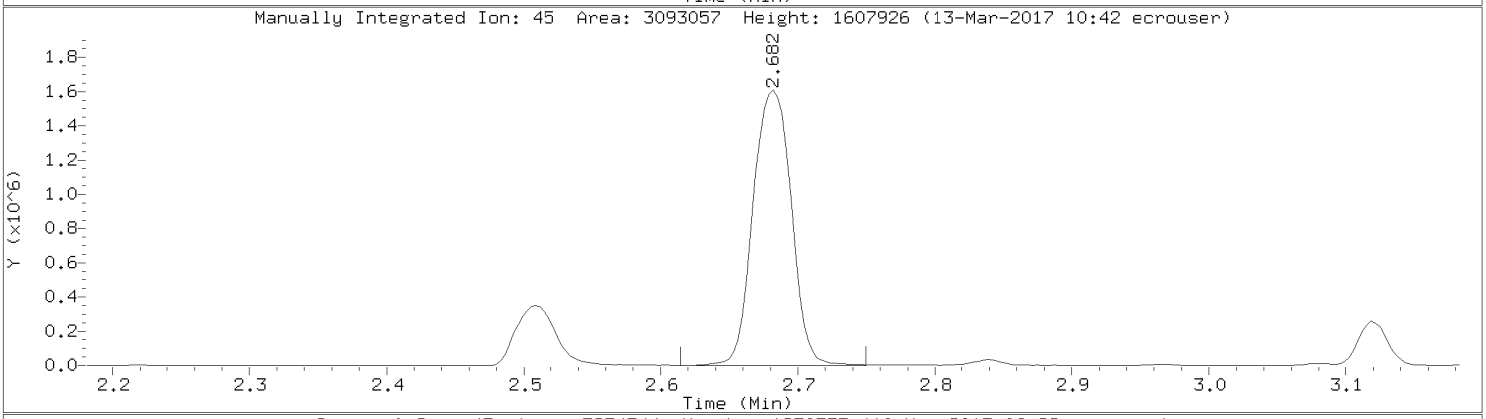
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06821.d
Injection Date: 10-MAR-2017 01:09
Instrument: 10airD.i
Lab Sample ID: CAL7

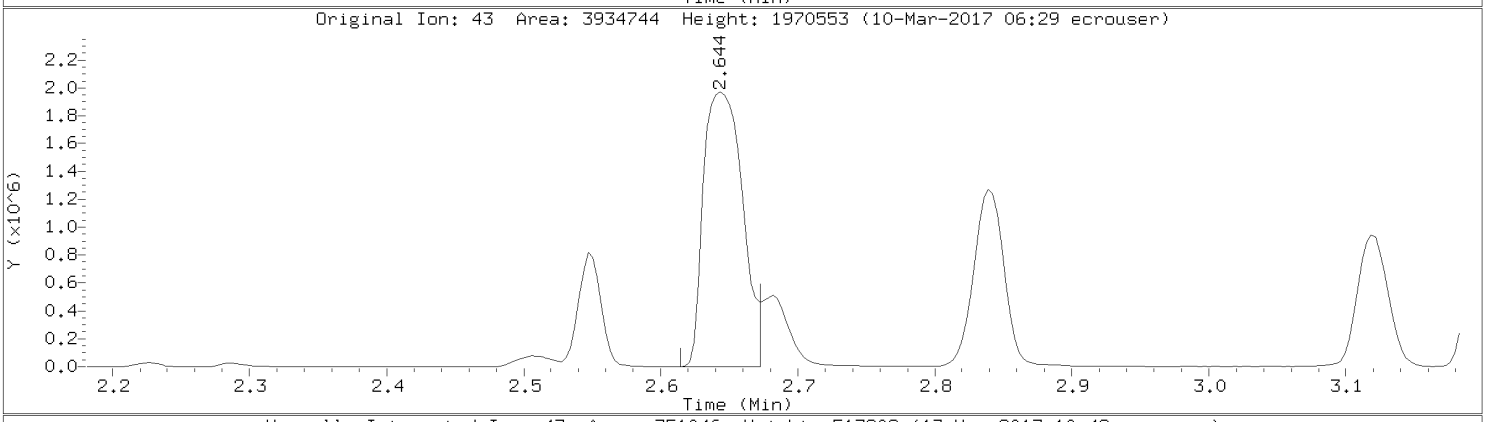


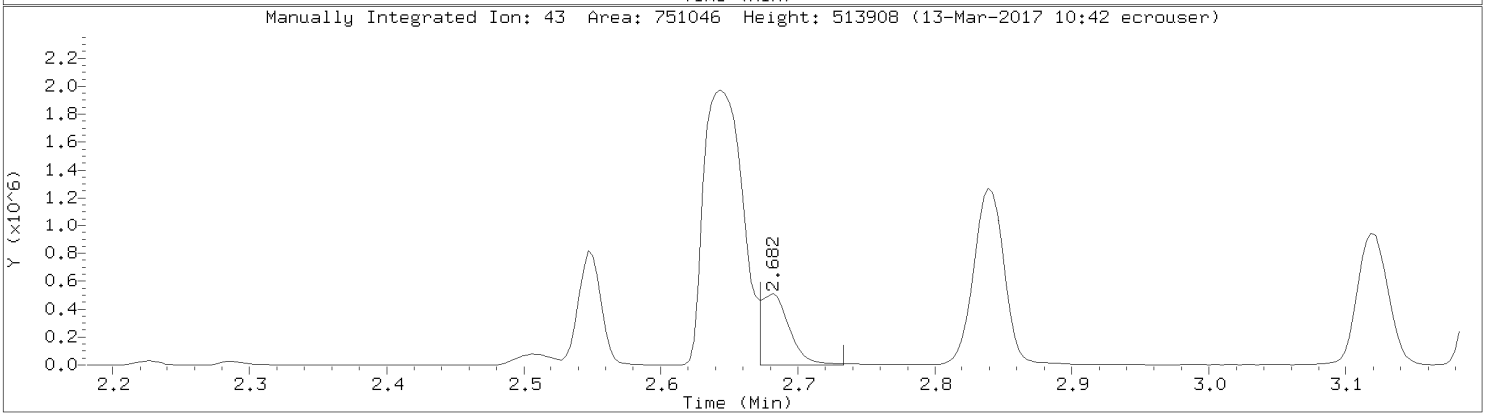
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06821.d
Injection Date: 10-MAR-2017 01:09
Instrument: 10airD.i
Lab Sample ID: CAL7

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



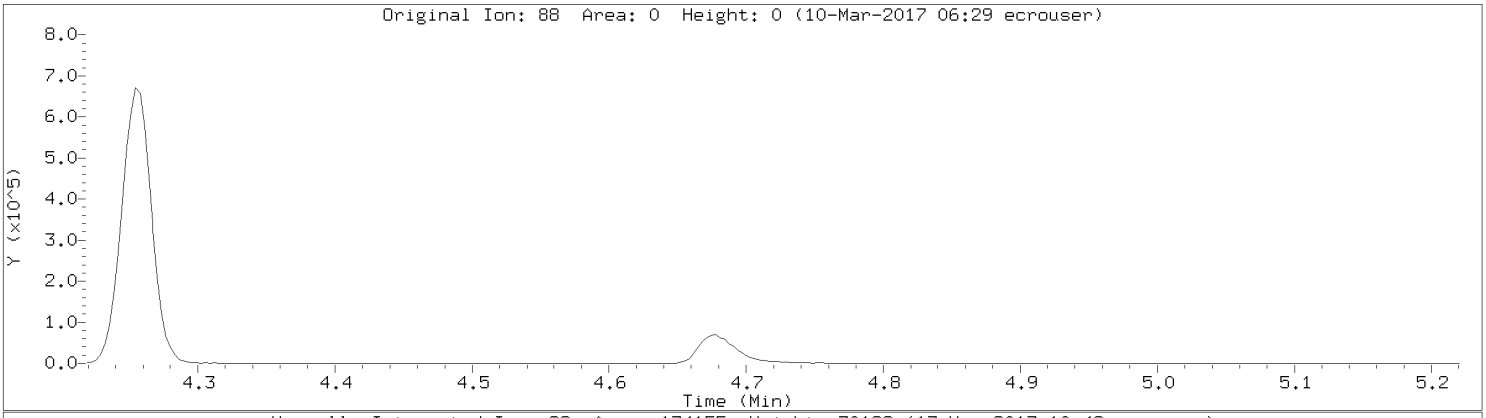


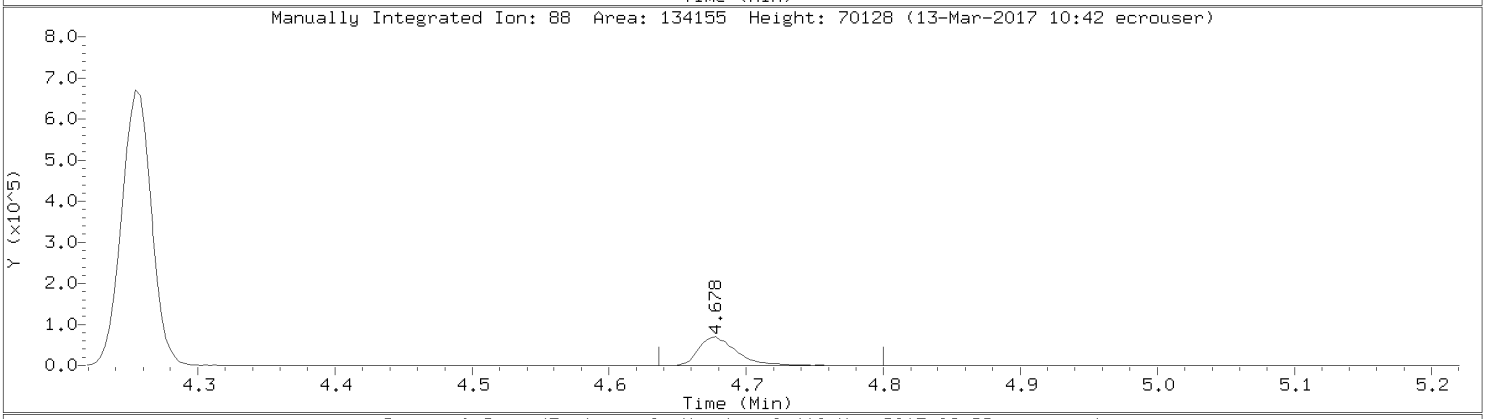


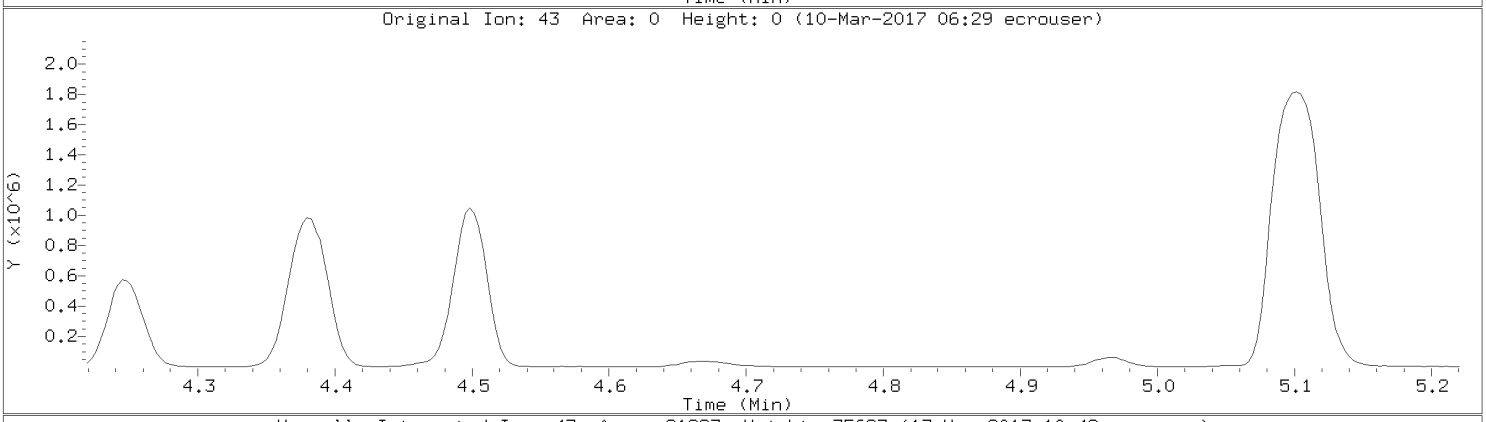


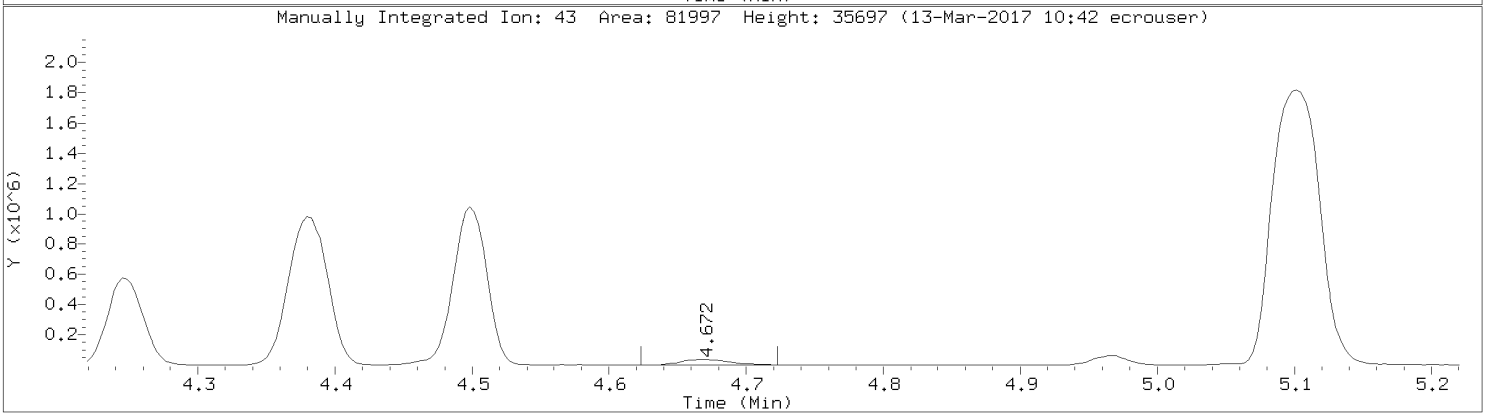
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06821.d
Injection Date: 10-MAR-2017 01:09
Instrument: 10airD.i
Lab Sample ID: CAL7

Compound: 1,4-Dioxane
CAS Number: 123-91-1









Data File: \\192.168.10.12\chem\10airD.i\030917.B\06824.d
Report Date: 13-Mar-2017 10:46

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\030917.B\06824.d
Lab Smp Id: CAL1
Inj Date : 10-MAR-2017 09:35
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 24 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.075	2.075	(0.490)	1540	0.10000	0.258
2	1,1-Difluoroethane	65	2.120	2.120	(0.500)	1473	0.10000	0.0895
3	Chlorodifluoromethane	67	2.136	2.136	(0.504)	630	0.10000	0.0772
4	Propylene	41	2.136	2.136	(0.504)	5695	0.10000	0.0968
5	Dichlorodifluoromethane	85	2.155	2.155	(0.509)	7323	0.10000	0.0985
6	Dichlorotetrafluoroethane	85	2.220	2.220	(0.524)	7332	0.10000	0.0972
7	Chloromethane	50	2.223	2.223	(0.525)	3487	0.10000	0.100
8	Vinyl chloride	62	2.281	2.281	(0.538)	2741	0.10000	0.101
9	1,3-Butadiene	54	2.306	2.306	(0.544)	1741	0.10000	0.0925
10	Bromomethane	94	2.412	2.412	(0.569)	2668	0.10000	0.0913
11	Chloroethane	64	2.447	2.447	(0.578)	924	0.10000	0.0902
12	Ethanol	45	2.508	2.508	(0.592)	3456	0.50000	0.666(M)
13	Vinyl Bromide	106	2.534	2.534	(0.598)	2432	0.10000	0.0888
14	Isopentane	43	2.544	2.544	(0.600)	3320	0.10000	0.103
15	Freon 123	83	2.547	2.547	(0.601)	6352	0.10000	0.0927
16	Trichlorofluoromethane	101	2.601	2.601	(0.614)	7345	0.10000	0.0945
17	Acrolein	56	2.621	2.621	(0.618)	976	0.25000	0.513
18	Acetone	43	2.643	2.643	(0.624)	21910	0.50000	344(AM)
19	Isopropyl Alcohol	45	2.682	2.682	(0.633)	16633	0.50000	0.632(M)
20	1,1-Dichloroethene	61	2.791	2.791	(0.659)	4483	0.10000	0.0968
21	Acrylonitrile	53	2.829	2.829	(0.668)	3521	0.25000	0.213(M)
24	Tert Butyl Alcohol (TBA)	59	2.836	2.836	(0.669)	8650	0.25000	0.241
22	Freon 113	101	2.820	2.820	(0.665)	5482	0.10000	0.0899

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06824.d
Report Date: 13-Mar-2017 10:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.839	2.839	(0.670)	6554	0.10000	0.102(M)
	25 Methylene chloride	49	2.865	2.865	(0.676)	18501	0.50000	0.200
	26 Allyl Chloride	76	2.877	2.877	(0.679)	1600	0.25000	0.218
	27 Carbon Disulfide	76	2.967	2.967	(0.700)	6271	0.10000	0.0955(M)
	28 trans-1,2-dichloroethene	96	3.083	3.083	(0.727)	1525	0.10000	0.0693(M)
	29 Methyl Tert Butyl Ether	73	3.115	3.115	(0.735)	14630	0.25000	0.253
	30 Vinyl Acetate	43	3.185	3.185	(0.752)	3534	0.10000	0.304(M)
	31 1,1-Dichloroethane	63	3.185	3.185	(0.752)	4823	0.10000	0.0964
$	32 Hexane-d14(S)	66	3.266	3.266	(0.771)	1770450	10.0000	9.86
	33 Methyl Ethyl Ketone	72	3.346	3.346	(0.790)	976	0.10000	0.0908
	34 n-Hexane	57	3.343	3.343	(0.789)	3741	0.10000	0.0963
	35 Di-isopropyl Ether	45	3.368	3.368	(0.795)	9304	0.10000	0.0987
	36 cis-1,2-Dichloroethene	96	3.452	3.452	(0.815)	1959	0.10000	0.0785
	37 Ethyl Acetate	43	3.490	3.490	(0.824)	6599	0.10000	0.106
	38 Ethyl Tert-Butyl Ether	59	3.564	3.564	(0.841)	18838	0.25000	0.113
	39 Chloroform	83	3.548	3.548	(0.837)	5490	0.10000	0.0872
	40 Tetrahydrofuran	42	3.718	3.718	(0.877)	3265	0.10000	0.104
	41 1,1,1-Trichloroethane	97	3.895	3.895	(0.919)	6221	0.10000	0.0982
	42 1,2-Dichloroethane	62	3.904	3.904	(0.921)	4606	0.10000	0.100
	43 Benzene	78	4.097	4.097	(0.967)	7605	0.10000	0.102
	45 Carbon tetrachloride	117	4.113	4.113	(0.970)	5381	0.10000	0.0902
	44 Cyclohexane	56	4.119	4.119	(0.972)	3551	0.10000	0.0925
	46 Tert Amyl Methyl Ether	73	4.241	4.241	(1.001)	63905	0.10000	0.0922
*	47 1,4-Difluorobenzene	114	4.238	4.238	(1.000)	3380856	10.0000	
	48 2,2,4-Trimethylpentane	57	4.366	4.366	(1.030)	33673	0.25000	158(A)
	49 Heptane	43	4.479	4.479	(1.057)	5544	0.10000	0.0955(M)
	50 1,2-Dichloropropane	63	4.546	4.546	(1.073)	3405	0.10000	0.0994
	51 Trichloroethene	130	4.565	4.565	(1.077)	3738	0.10000	0.0915
	52 Methyl methacrylate	69	4.662	4.662	(1.100)	2723	0.10000	0.101
	53 Bromodichloromethane	83	4.655	4.655	(1.098)	6646	0.10000	0.0945
	54 1,4-Dioxane	88	4.719	4.719	(1.114)	738	0.10000	0.131
	55 Methylcyclohexane	98	4.947	4.947	(1.167)	1541	0.10000	0.0978
	56 Methyl Isobutyl Ketone	43	5.101	5.101	(1.204)	18237	0.25000	0.156
	57 cis-1,3-Dichloropropene	75	5.130	5.130	(1.210)	4112	0.10000	0.0887(M)
	58 trans-1,3-Dichloropropene	75	5.502	5.502	(1.298)	3156	0.10000	0.143(M)
$	59 Toluene-d8 (S)	98	5.557	5.557	(1.311)	3308206	10.0000	9.77
	60 Toluene	91	5.627	5.627	(1.328)	10733	0.10000	0.107
	61 1,1,2-Trichloroethane	97	5.634	5.634	(1.329)	3936	0.10000	0.102
	62 Methyl Butyl Ketone	43	5.897	5.897	(0.839)	14910	0.25000	0.232
	63 n-Octane	43	6.048	6.048	(0.861)	6947	0.10000	0.104
	64 Dibromochloromethane	129	6.115	6.115	(0.870)	6266	0.10000	0.0946
	65 1,2-Dibromoethane	107	6.340	6.340	(0.902)	5736	0.10000	0.100
	66 Tetrachloroethene	166	6.394	6.394	(0.910)	5626	0.10000	0.0946
*	67 Chlorobenzene - d5	117	7.026	7.026	(1.000)	2691421	10.0000	
	68 Chlorobenzene	112	7.065	7.065	(1.005)	7557	0.10000	0.104
	69 Ethyl Benzene	91	7.312	7.312	(1.041)	13545	0.10000	0.115
	70 m&p-Xylene	91	7.453	7.453	(1.061)	24145	0.20000	0.133
	71 Bromoform	173	7.829	7.829	(1.114)	4583	0.10000	0.257
	72 n-Nonane	43	7.858	7.858	(1.118)	5674	0.10000	0.0921
	73 Styrene	104	7.874	7.874	(1.121)	5140	0.10000	0.0858
	74 o-Xylene	91	7.925	7.925	(1.128)	11748	0.10000	0.121
	75 1,1,2,2-Tetrachloroethane	83	8.191	8.191	(1.166)	6810	0.10000	0.105
	76 Isopropylbenzene	105	8.496	8.496	(1.209)	13342	0.10000	0.111
	77 N-Propylbenzene	91	9.051	9.051	(1.288)	12089	0.10000	0.0954

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06824.d
Report Date: 13-Mar-2017 10:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.228	9.228	(1.313)	9511	0.10000	0.0917(M)
79	1,3,5-Trimethylbenzene	105	9.318	9.318	(1.326)	13864	0.10000	0.107
80	n-Decane	57	9.719	9.719	(2.293)	4338	0.10000	0.0790(M)
81	Tert-Butyl Benzene	119	9.809	9.809	(1.396)	9779	0.10000	0.102
82	1,2,4-Trimethylbenzene	105	9.825	9.825	(1.398)	21349	0.10000	0.119(M)
83	1,3-Dichlorobenzene	146	10.133	10.133	(1.442)	6389	0.10000	0.101(M)
84	Sec- Butylbenzene	105	10.146	10.146	(1.444)	11298	0.10000	0.0953(M)
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1520673	10.0000	9.22
86	Benzyl Chloride	91	10.219	10.219	(1.454)	8044	0.10000	0.122(M)
87	1,4-Dichlorobenzene	146	10.235	10.235	(1.457)	8662	0.10000	0.132(M)
88	p-Isopropyltoluene	119	10.370	10.370	(1.476)	9719	0.10000	0.0920(M)
89	1,2,3-Trimethylbenzene	105	10.415	10.415	(1.482)	7675	0.10000	0.0929(M)
90	1,2-Dichlorobenzene	146	10.704	10.704	(1.523)	6631	0.10000	0.114
91	N-Butylbenzene	91	10.970	10.970	(1.561)	8156	0.10000	0.0941
92	1,2-Dibromo-3-Chloropropane	157	11.541	11.541	(1.643)	1585	0.10000	0.119(M)
93	1,2,4-Trichlorobenzene	180	12.851	12.851	(1.829)	7281	0.10000	0.463(M)
94	Naphthalene	128	12.966	12.966	(1.845)	12939	0.10000	0.459(M)
95	Hexachlorobutadiene	225	13.223	13.223	(1.882)	7582	0.10000	0.323

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06824.d
Report Date: 13-Mar-2017 10:46

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06824.d
Lab Smp Id: CAL1
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3380856	-10.74
67 Chlorobenzene - d	3280875	1968525	4593225	2691421	-17.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.23
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06824.D

Date : 10-MAR-2017 09:35

Client ID:

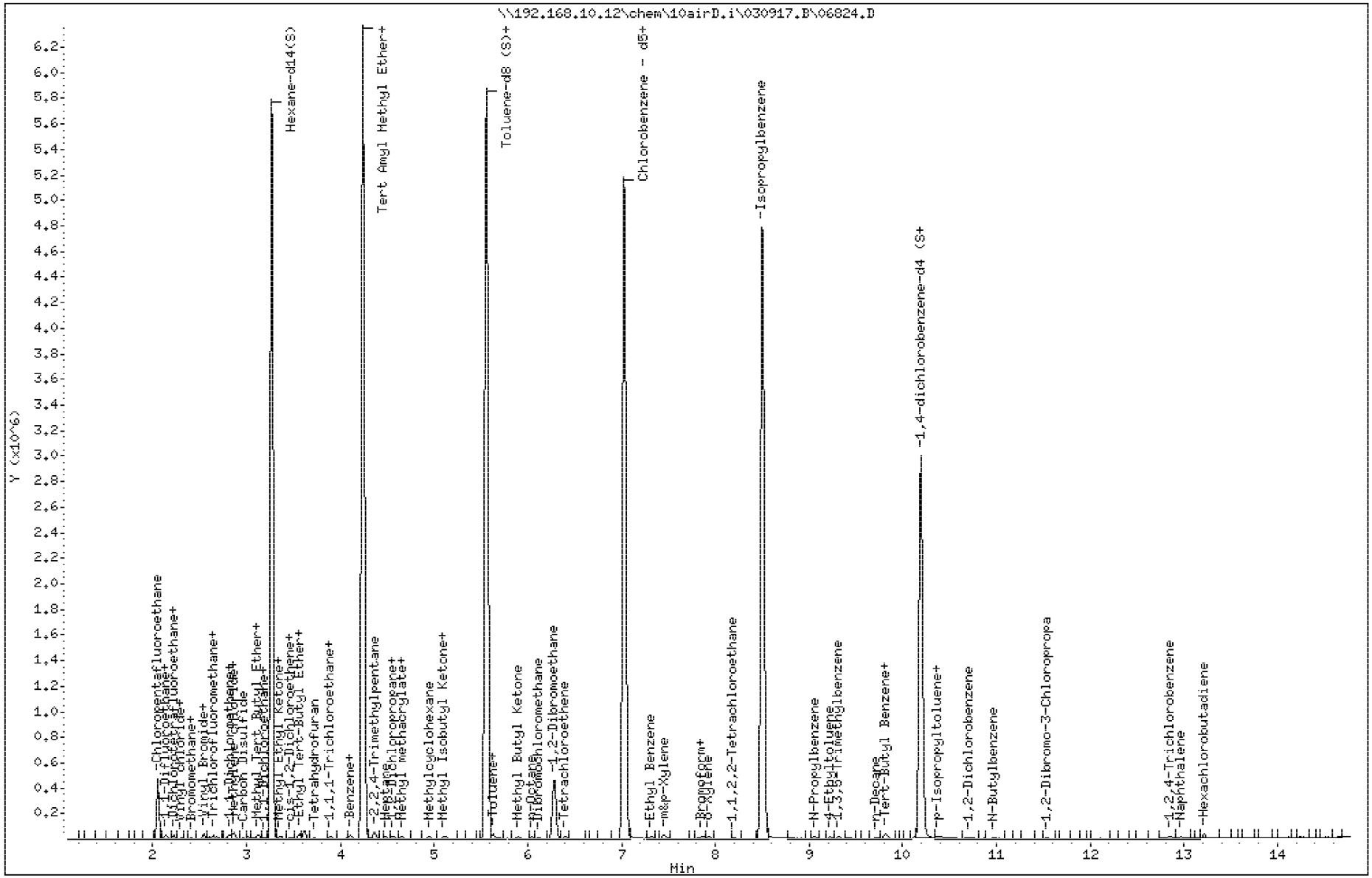
Instrument: 10airD.i

Sample Info:

Operator: EMC

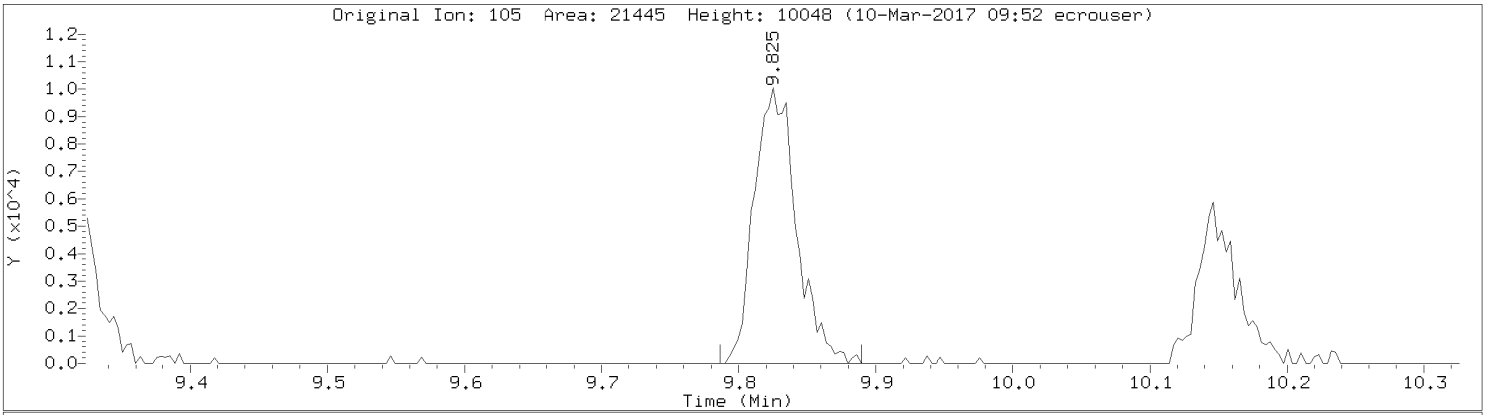
Column phase: J&W DB-5

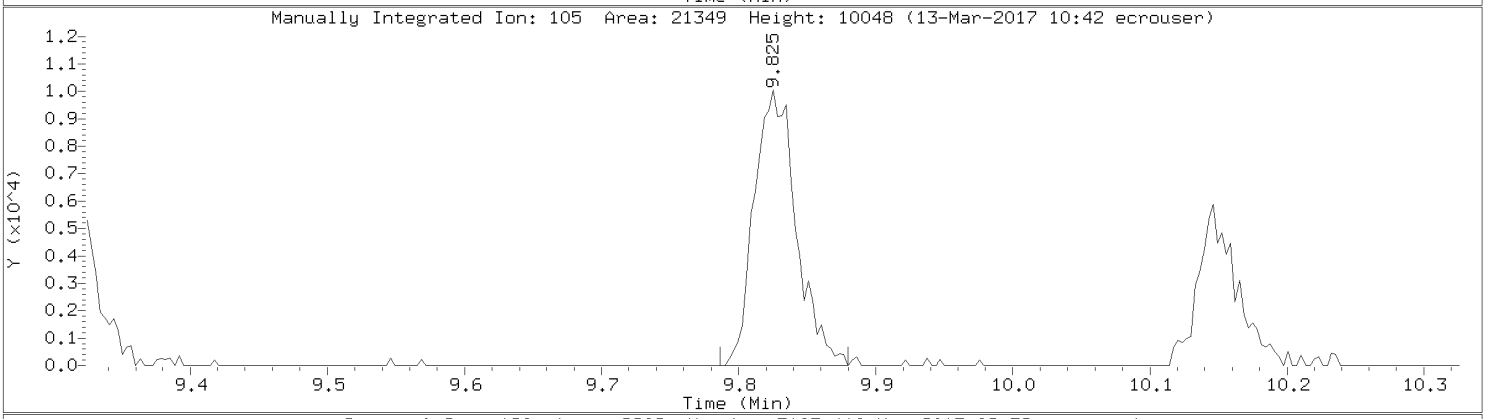
Column diameter: 0.32

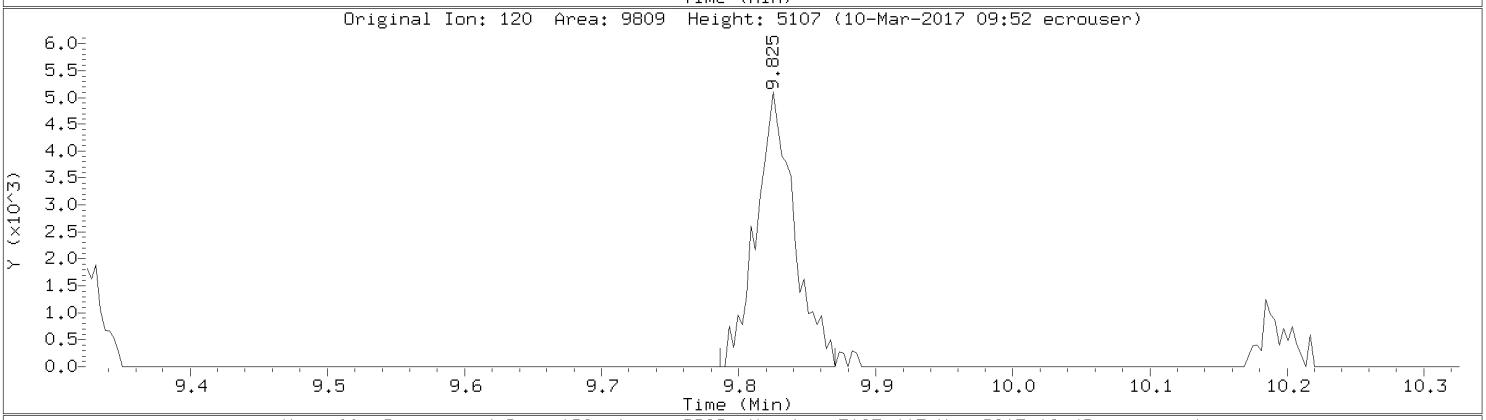


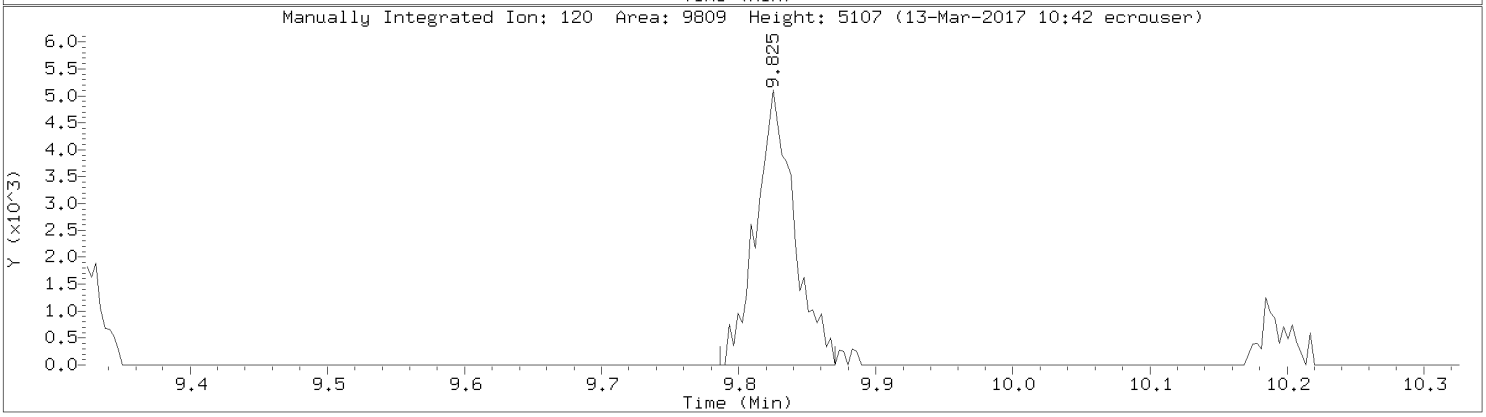
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,2,4-Trimethylbenzene
CAS Number: 95-63-6



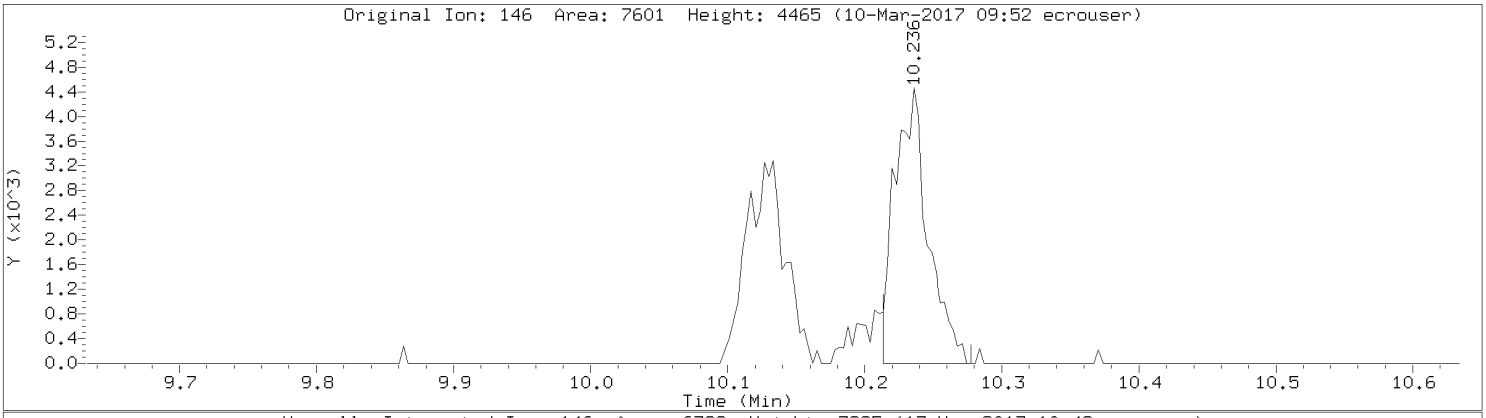


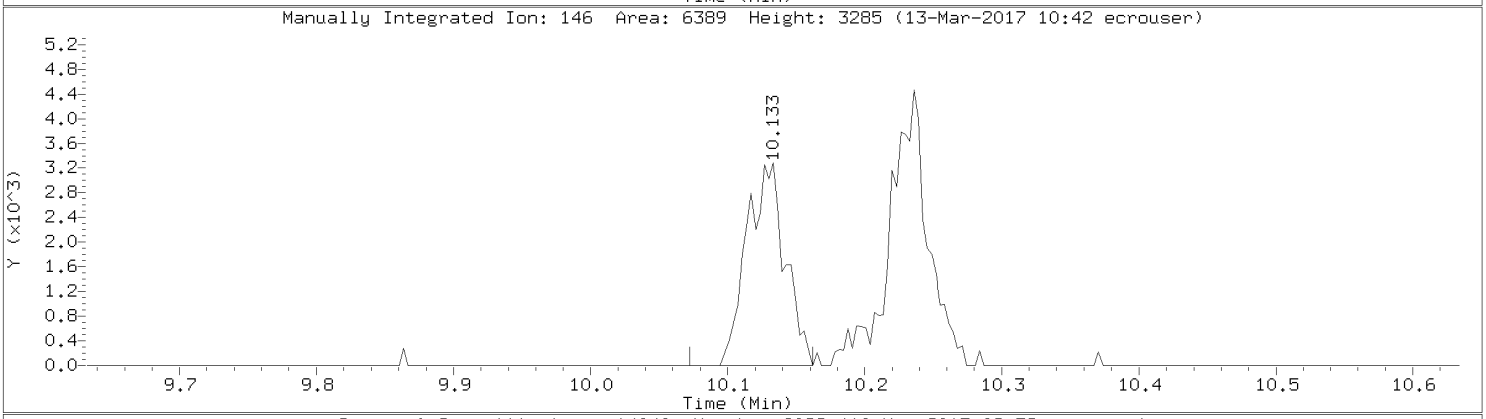


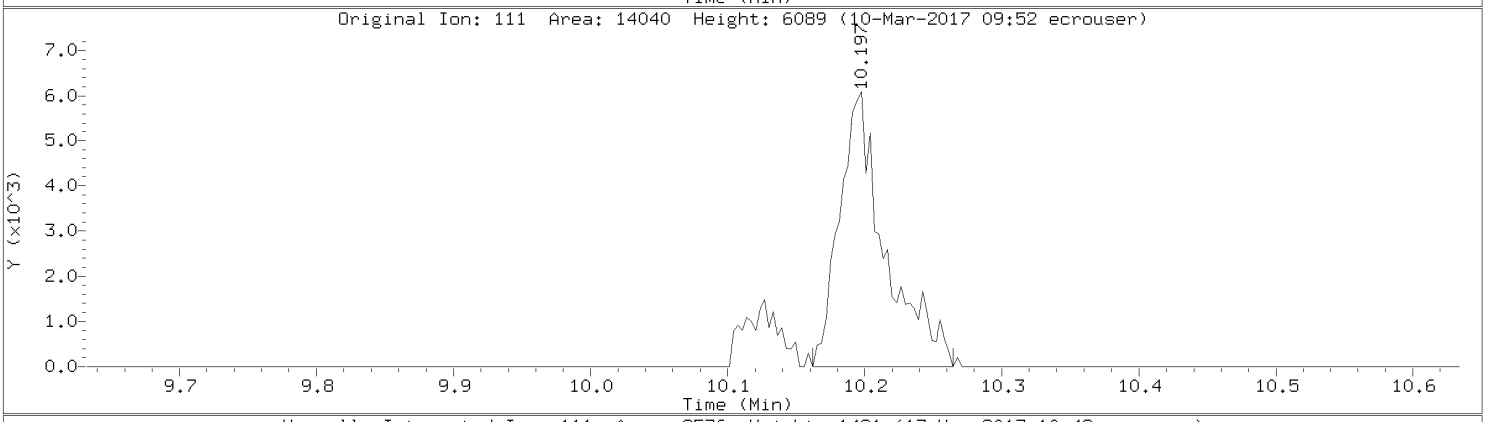


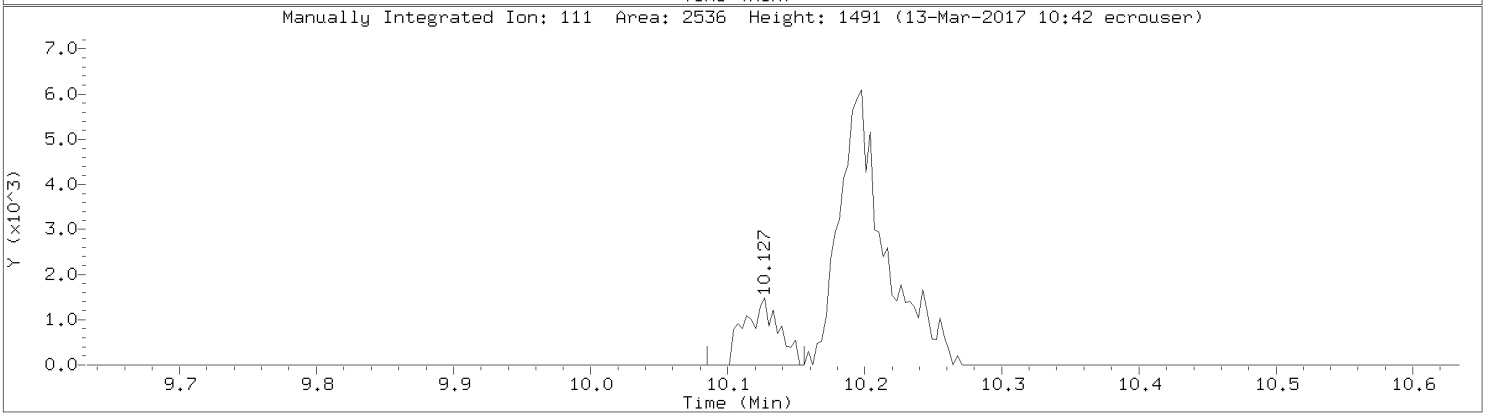
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

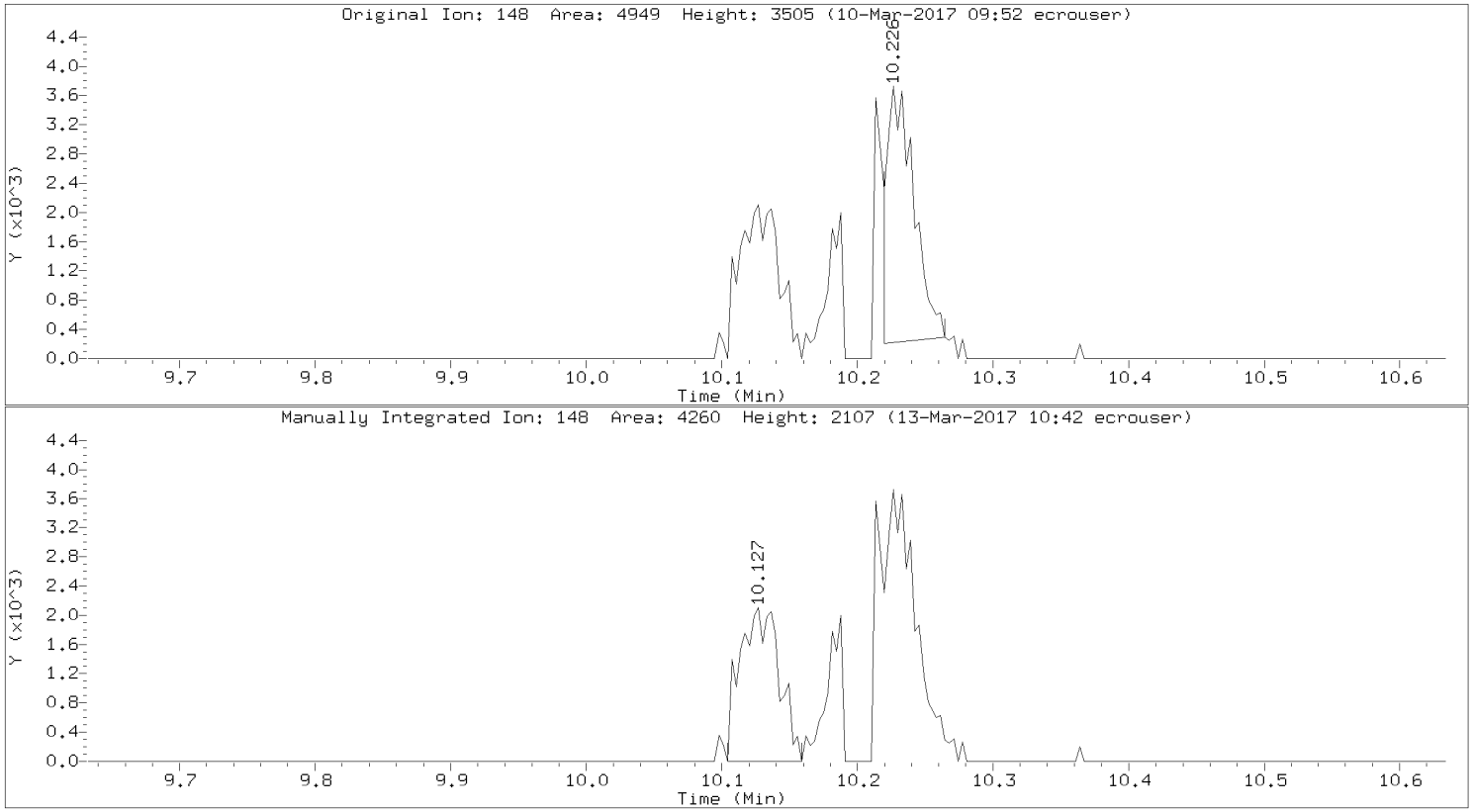






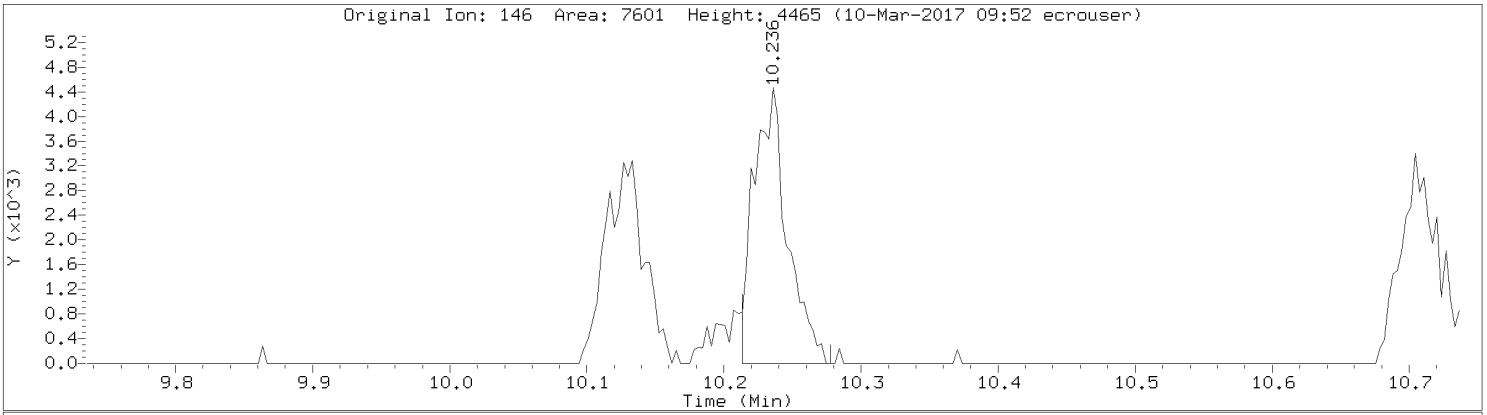


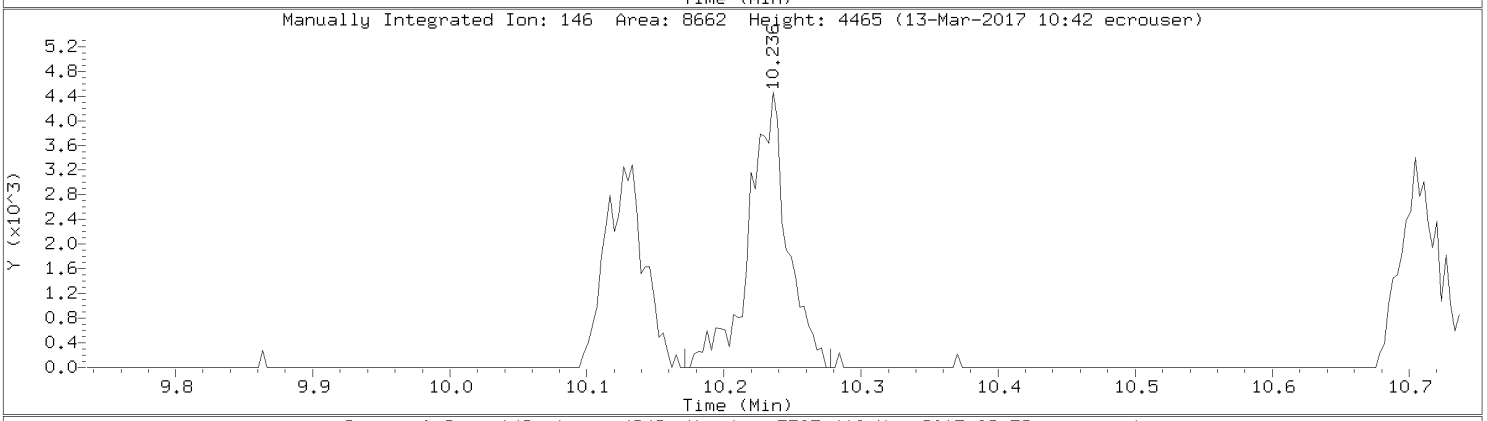
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

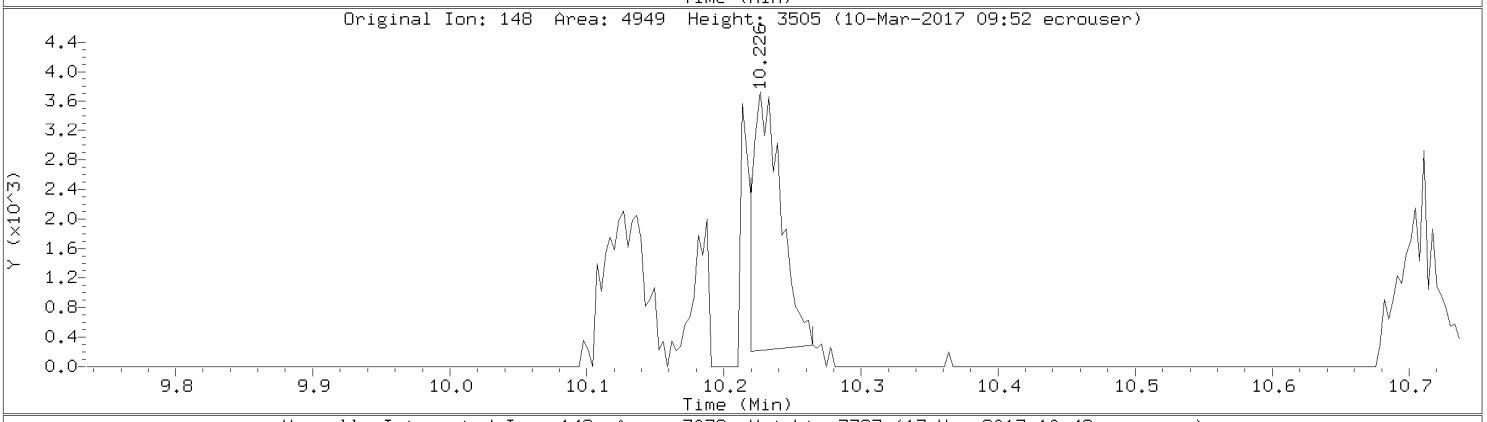


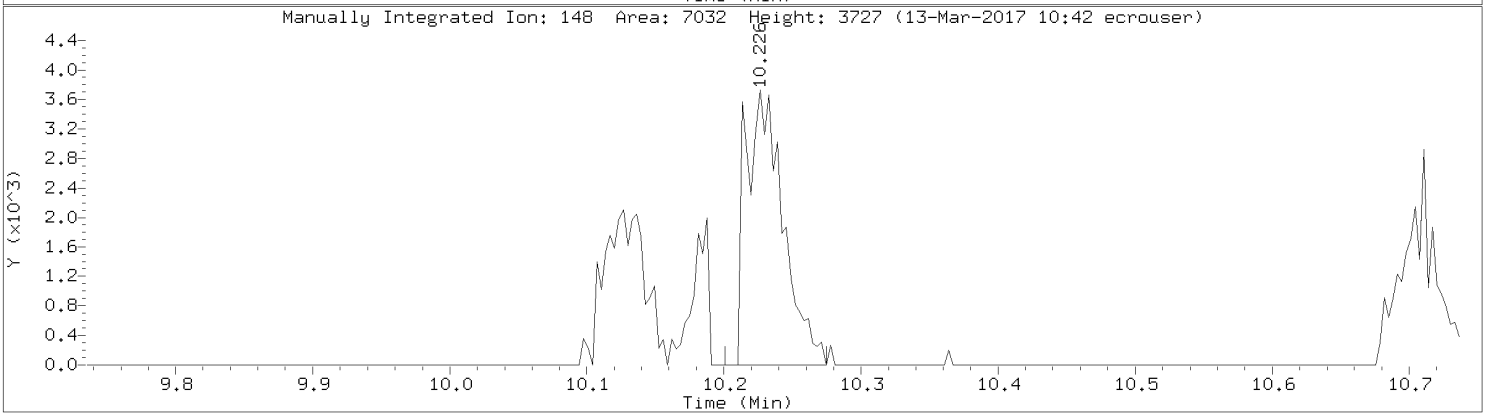
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

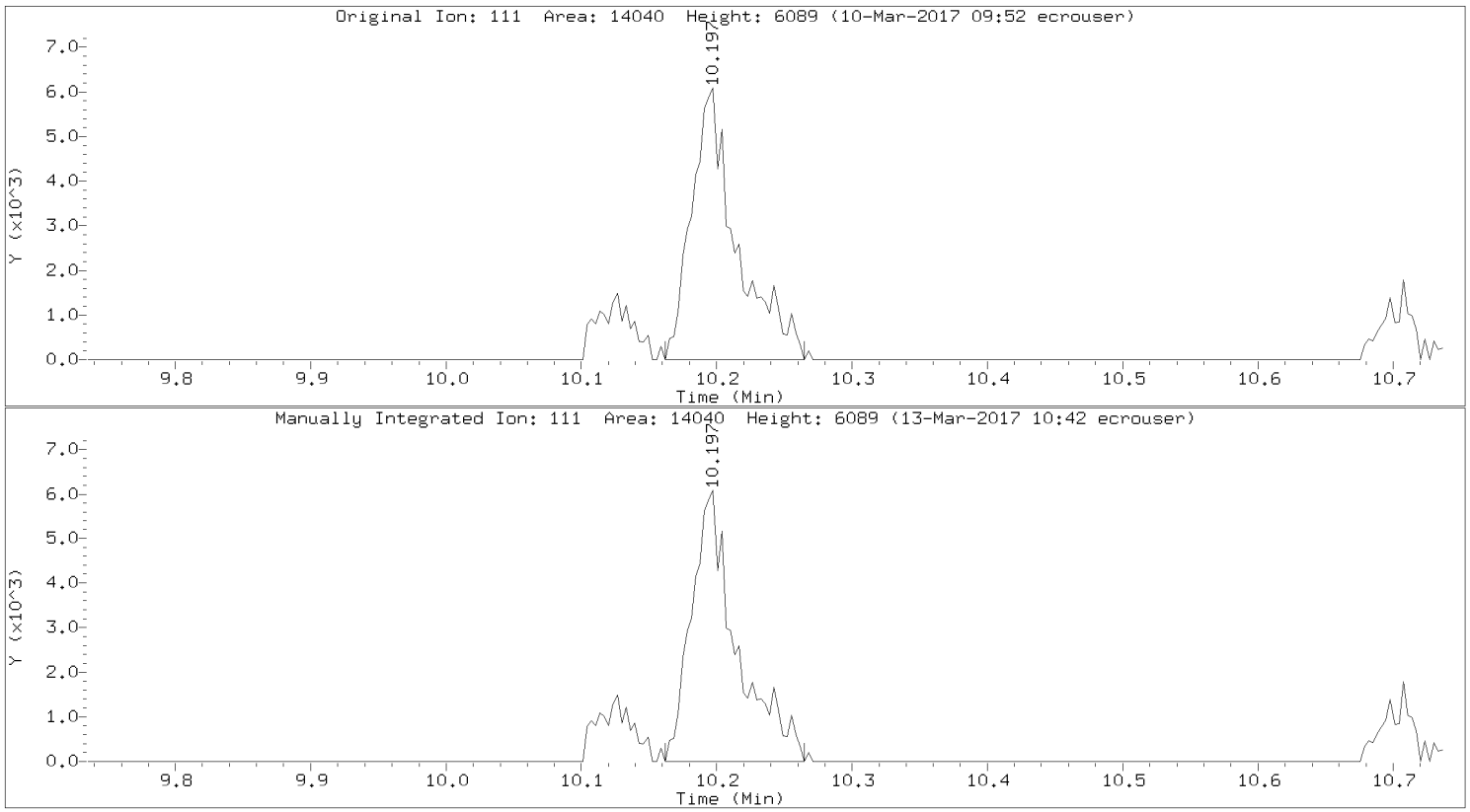






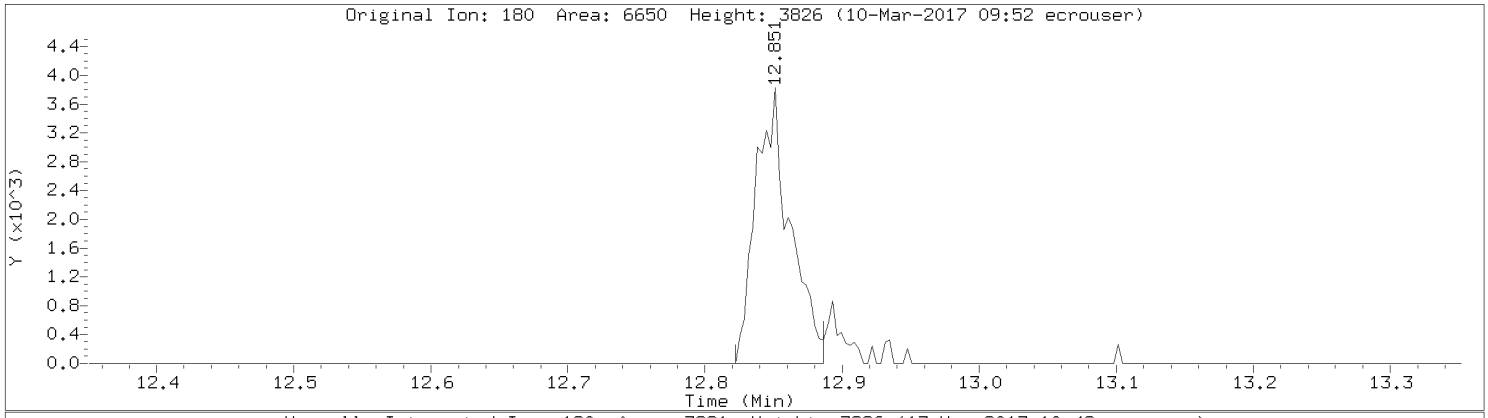


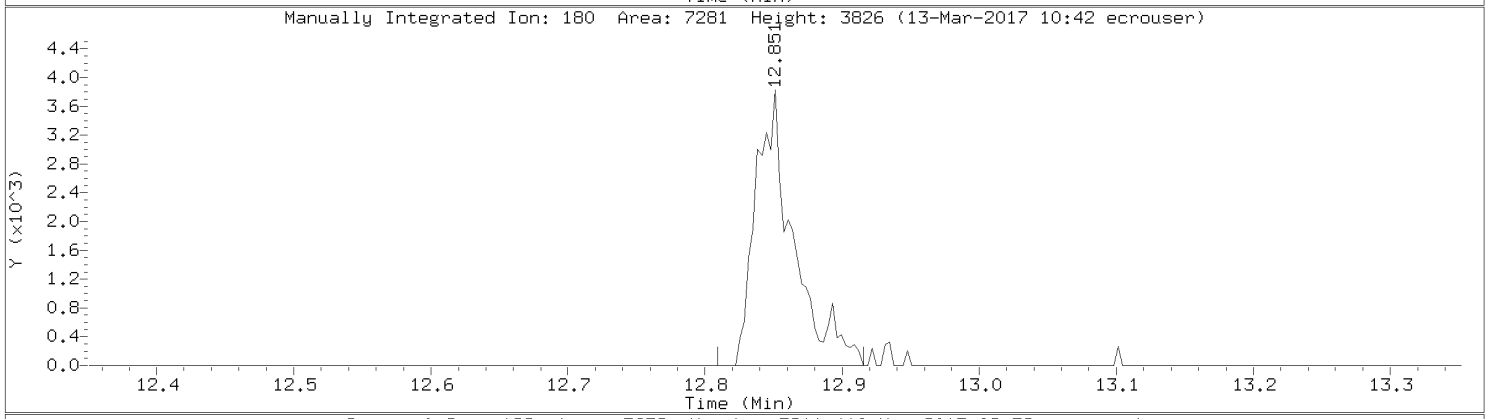
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

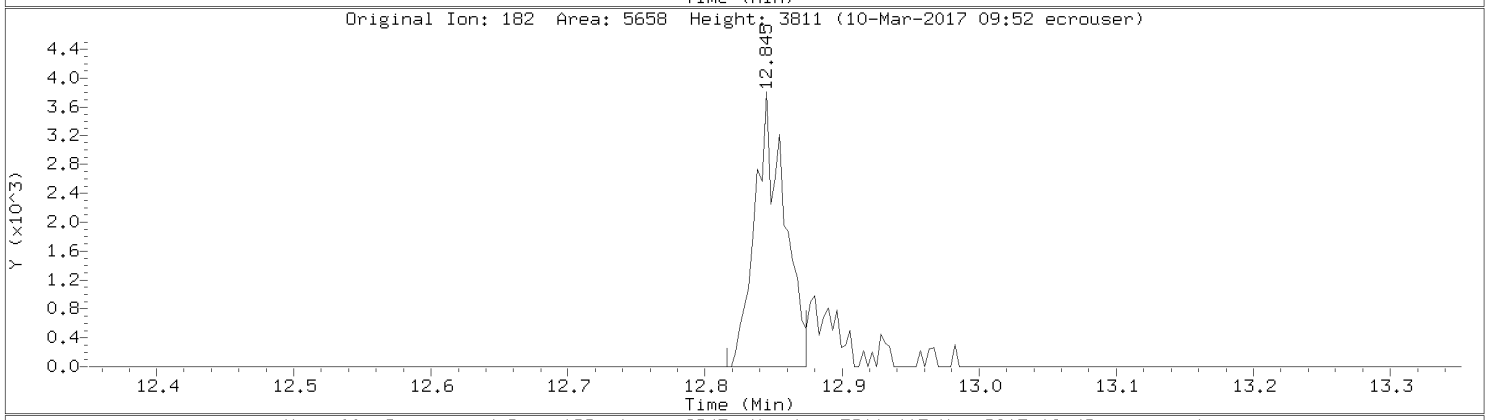


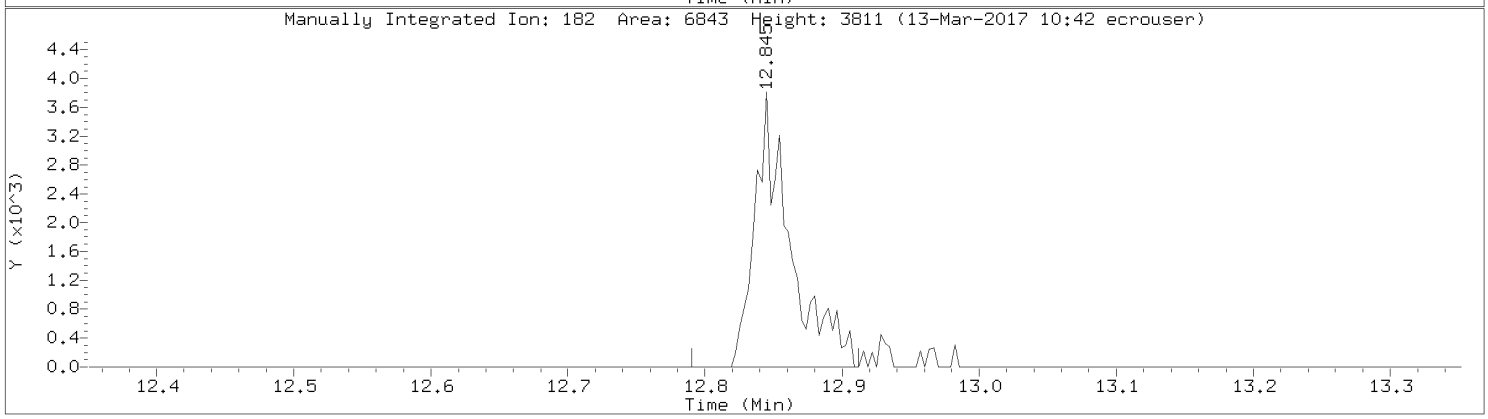
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

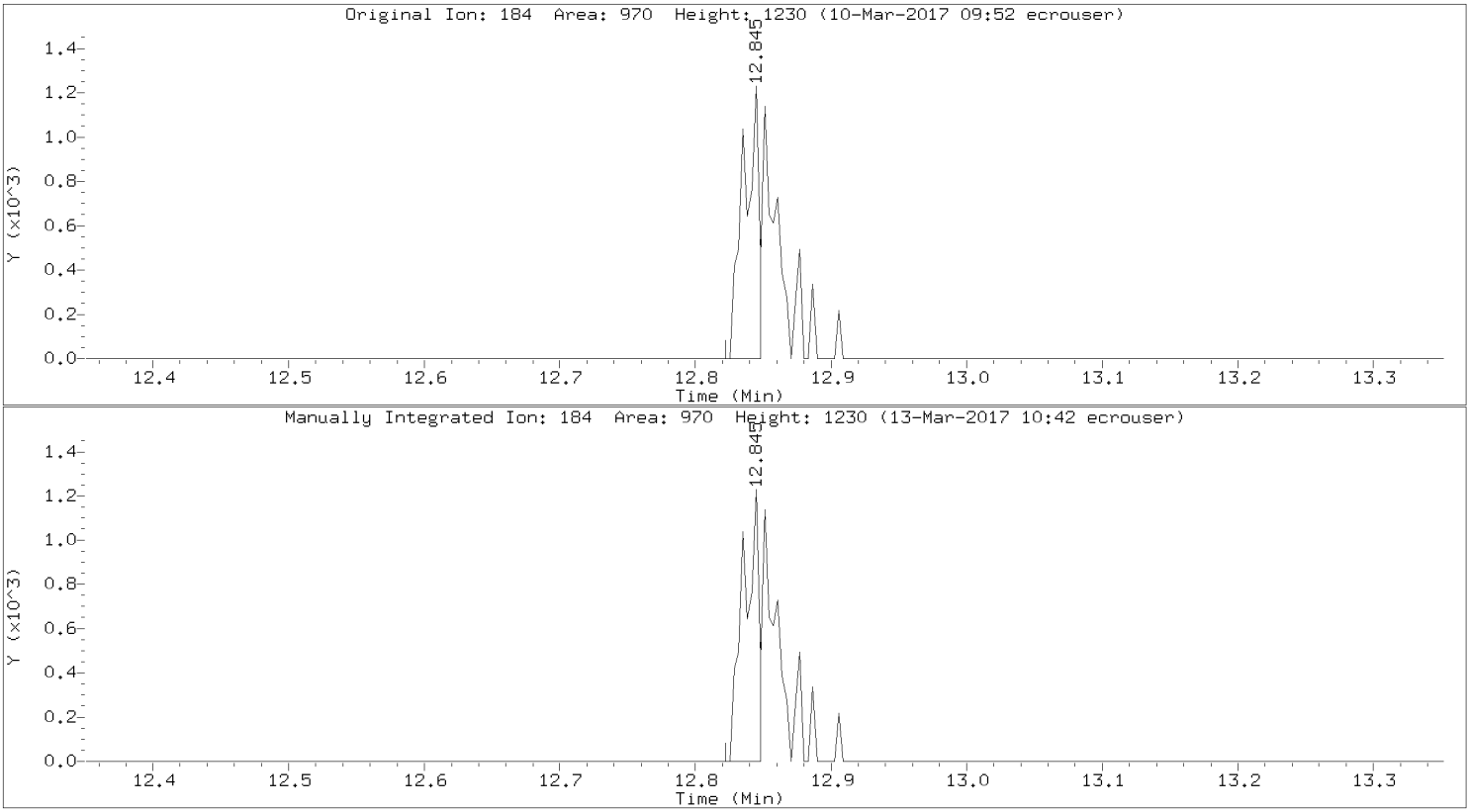






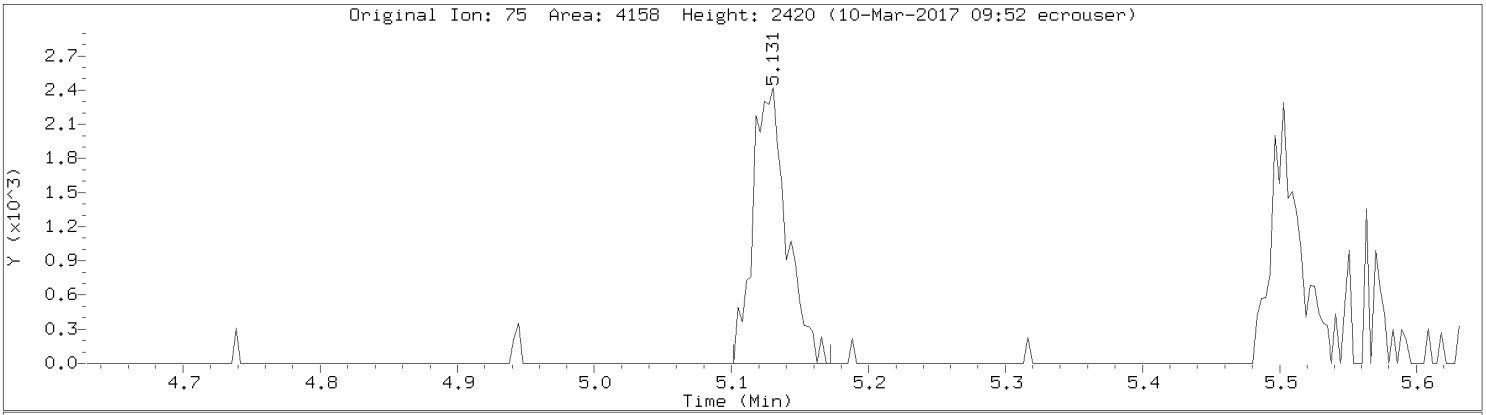


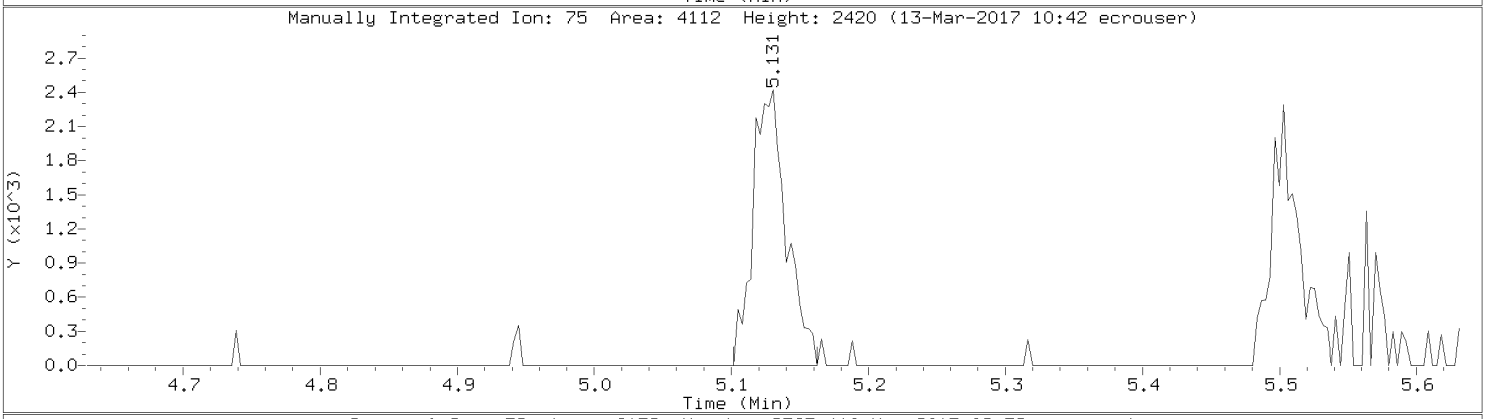
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

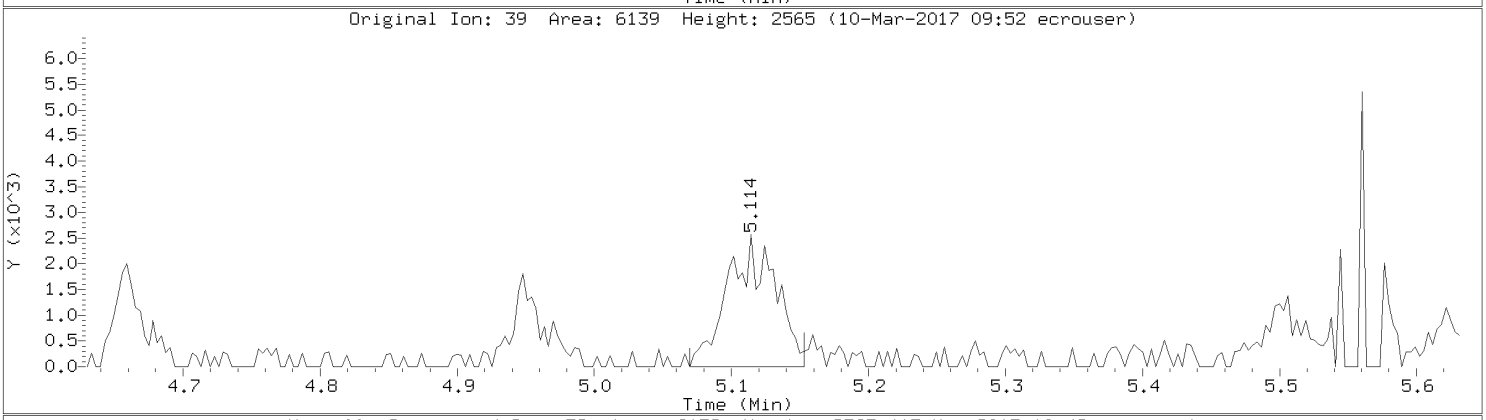


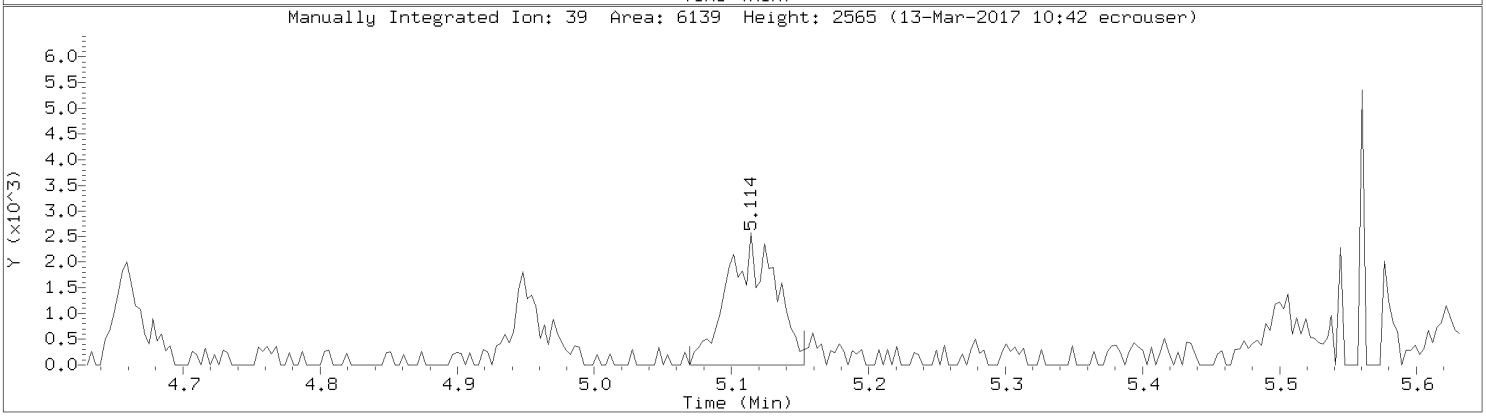
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: cis-1,3-Dichloropropene
CAS Number: 10061-01-5

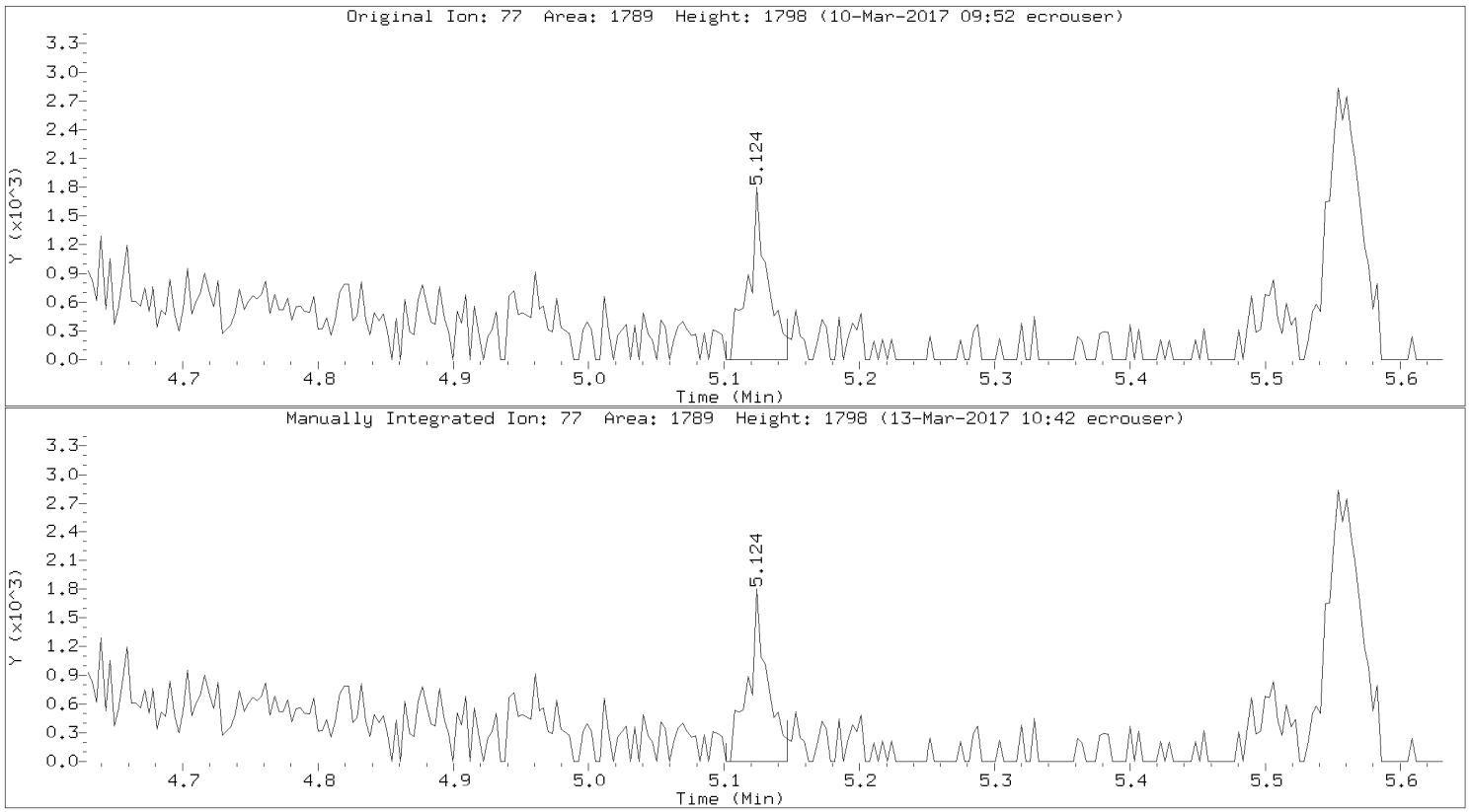






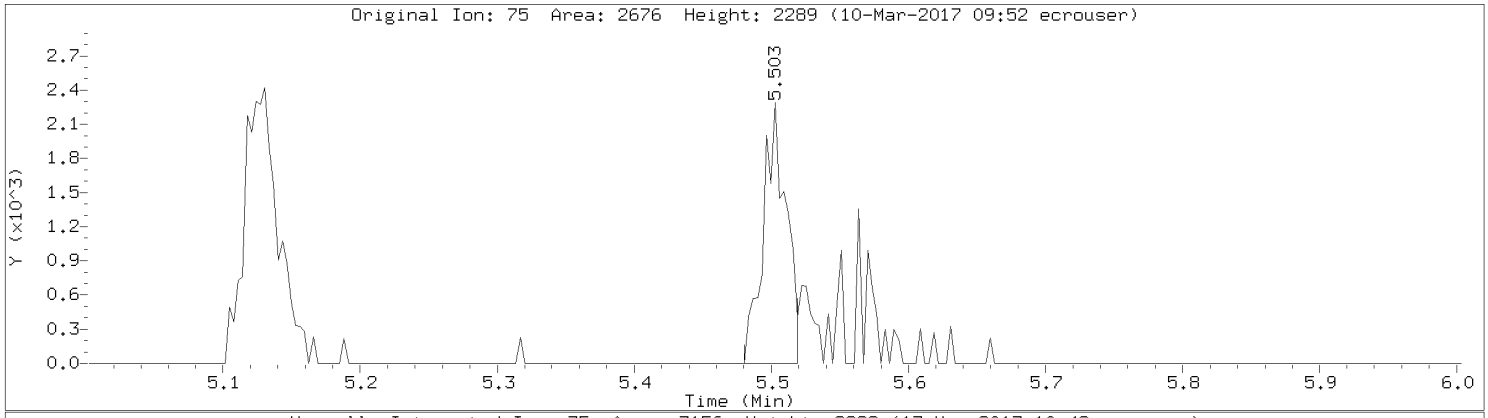


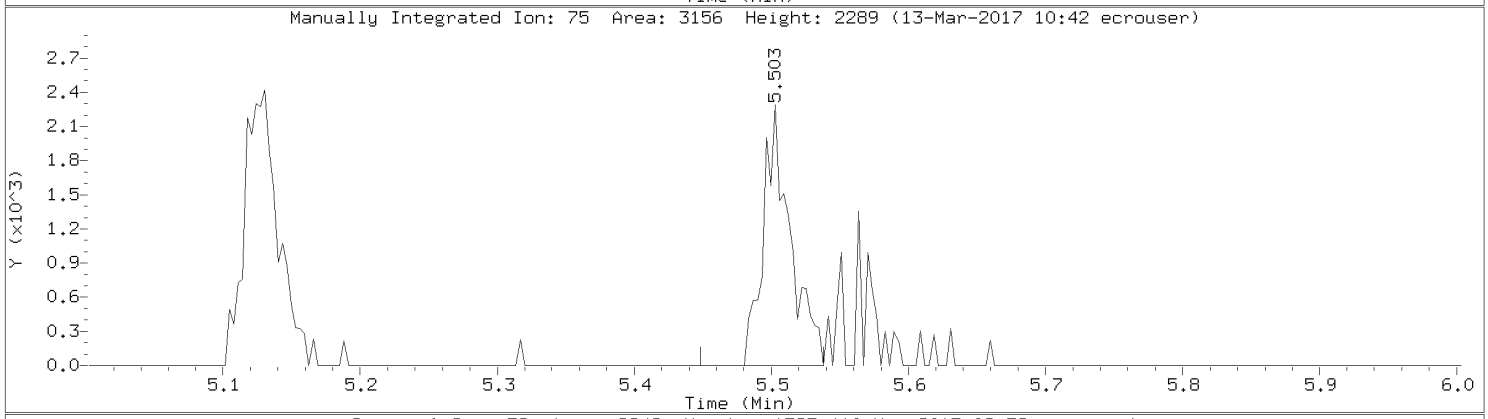
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

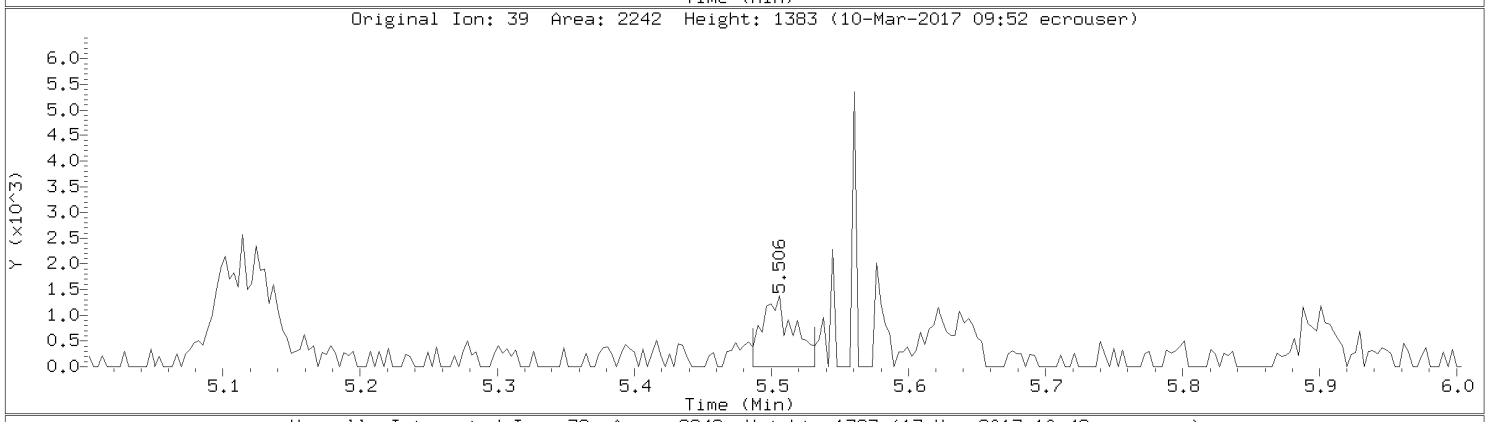


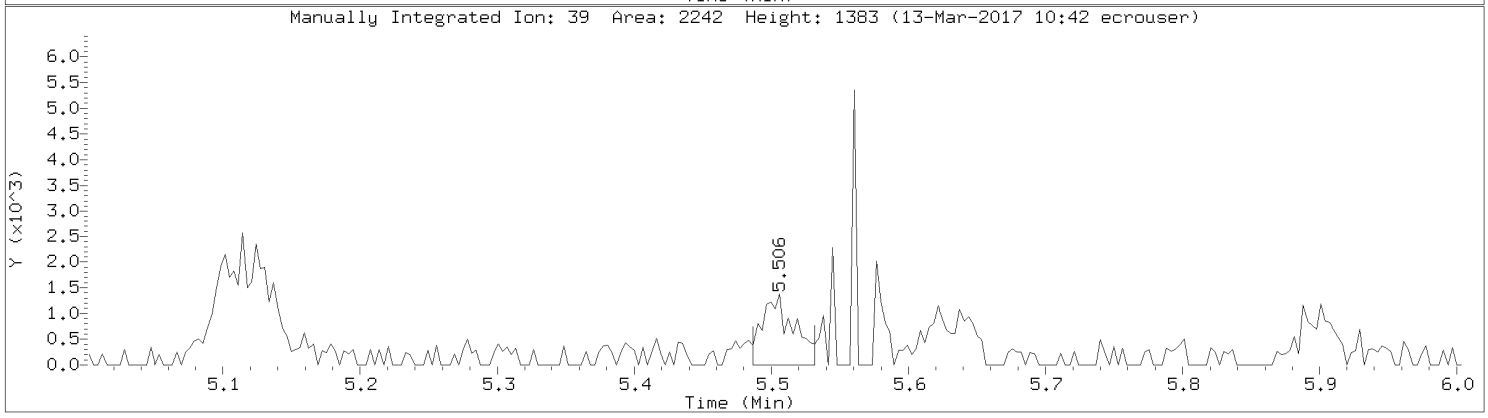
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

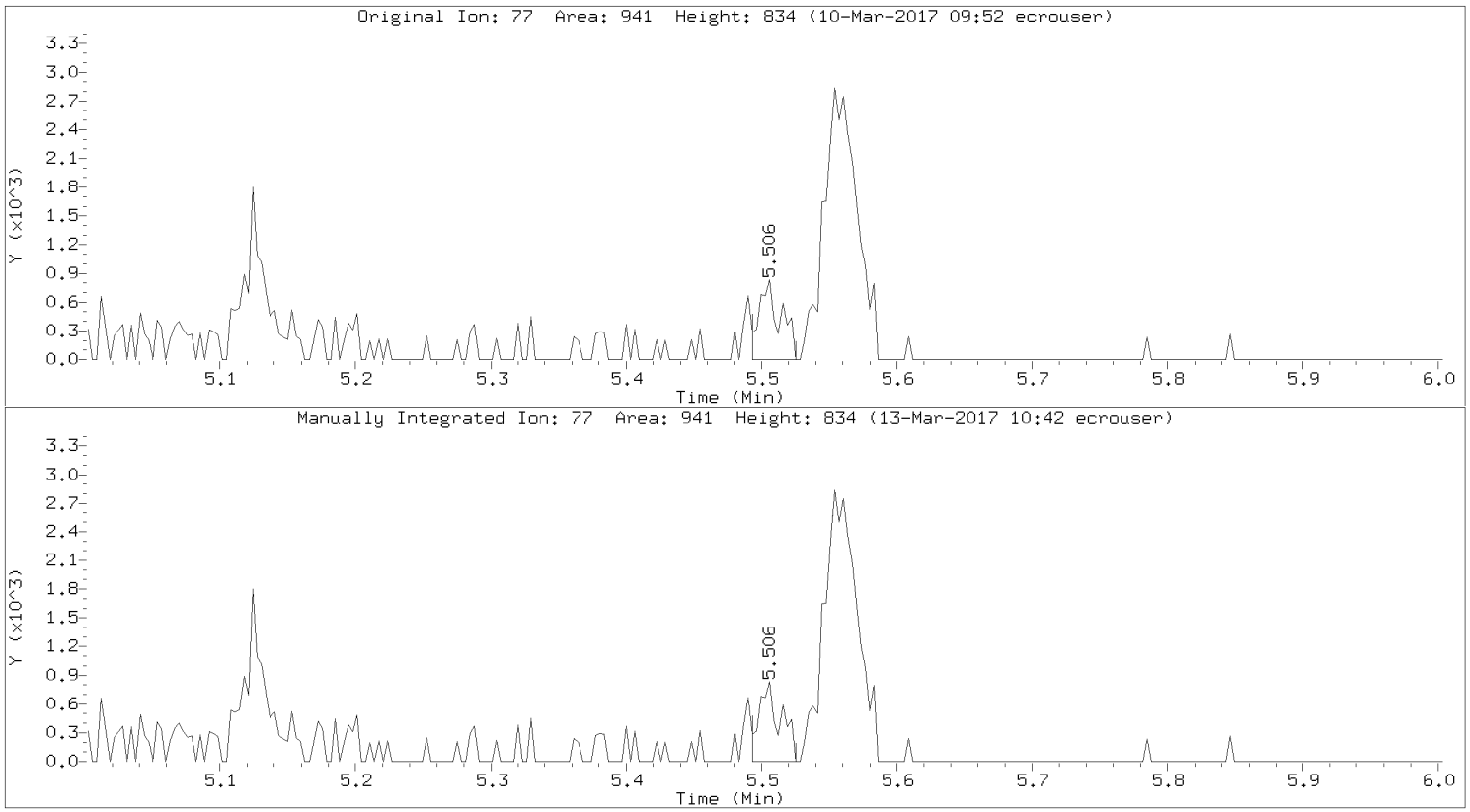






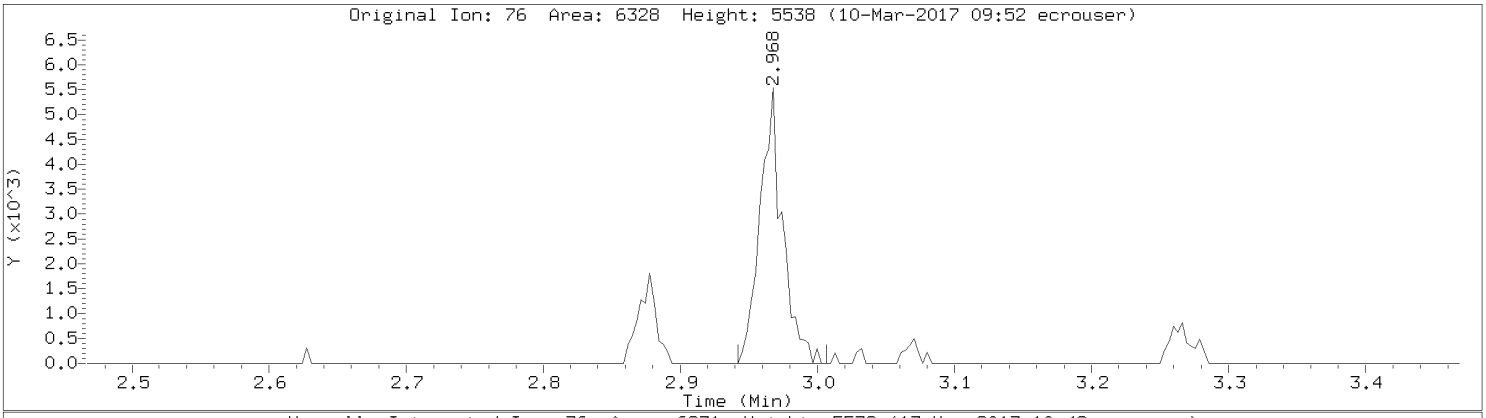


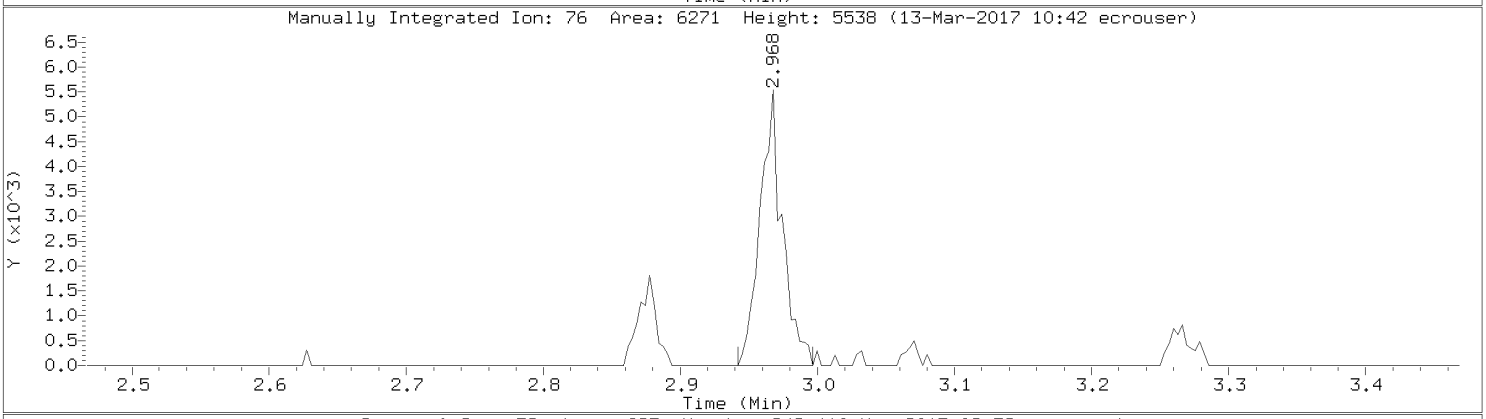
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

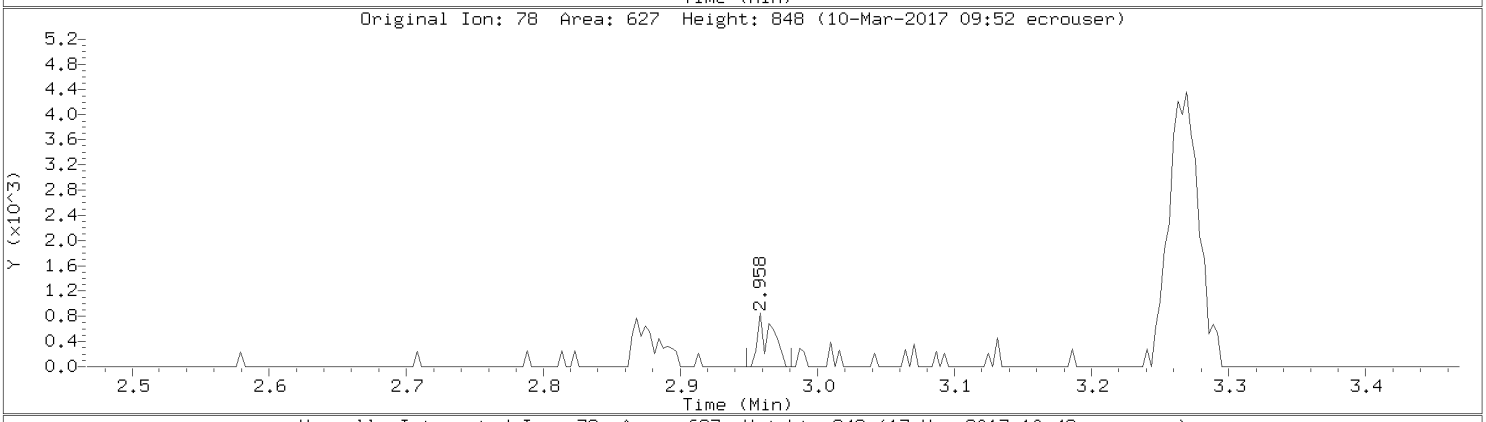


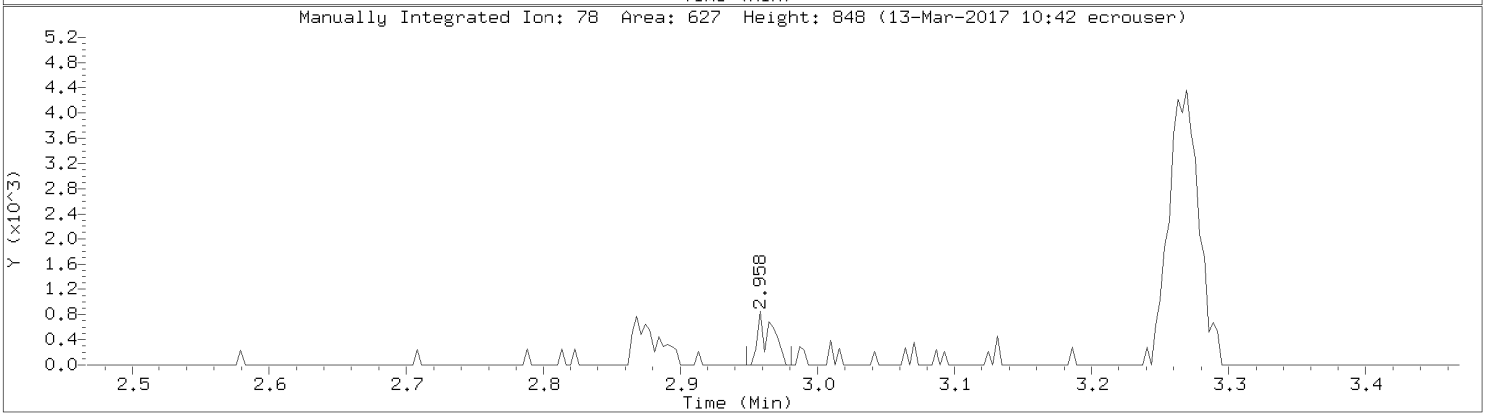
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Carbon Disulfide
CAS Number: 75-15-0



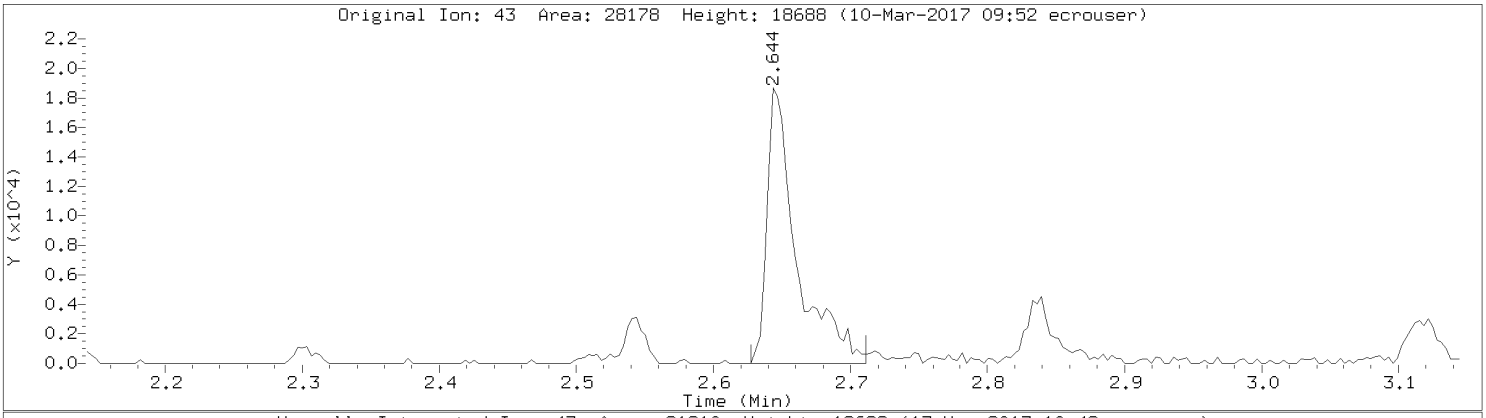


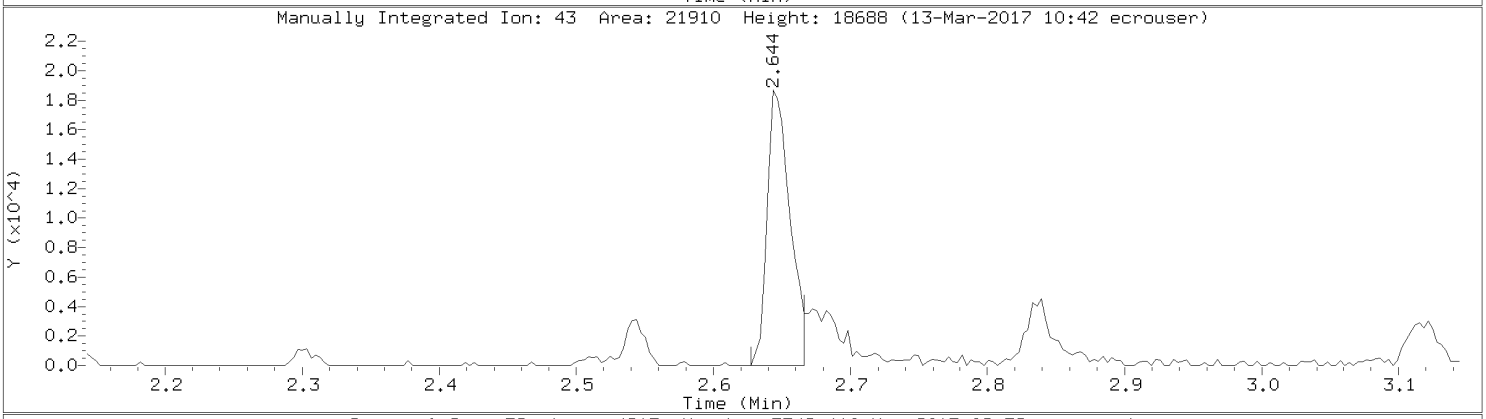


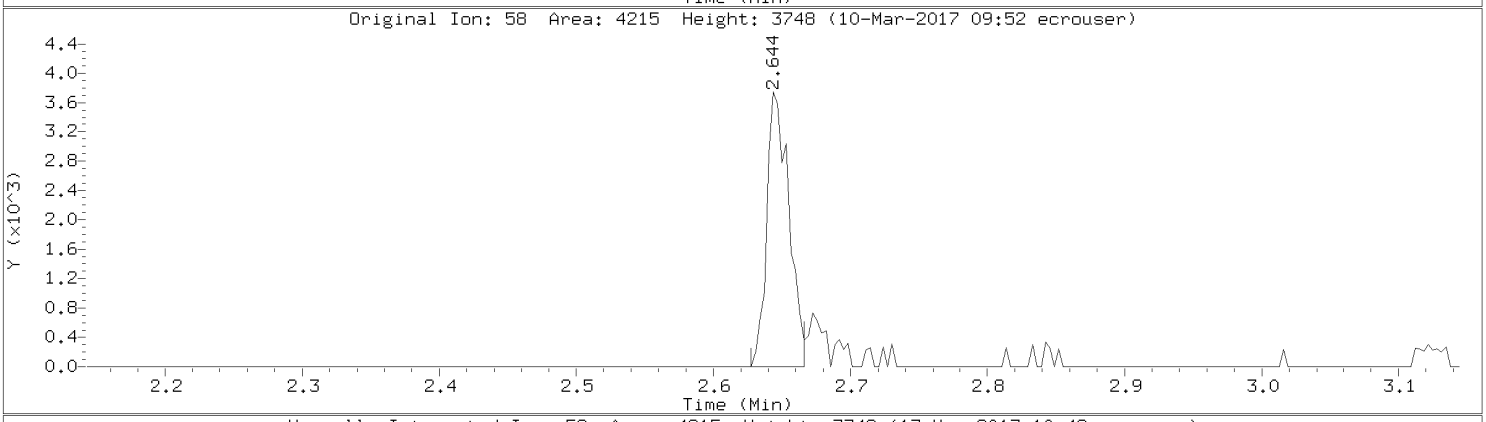


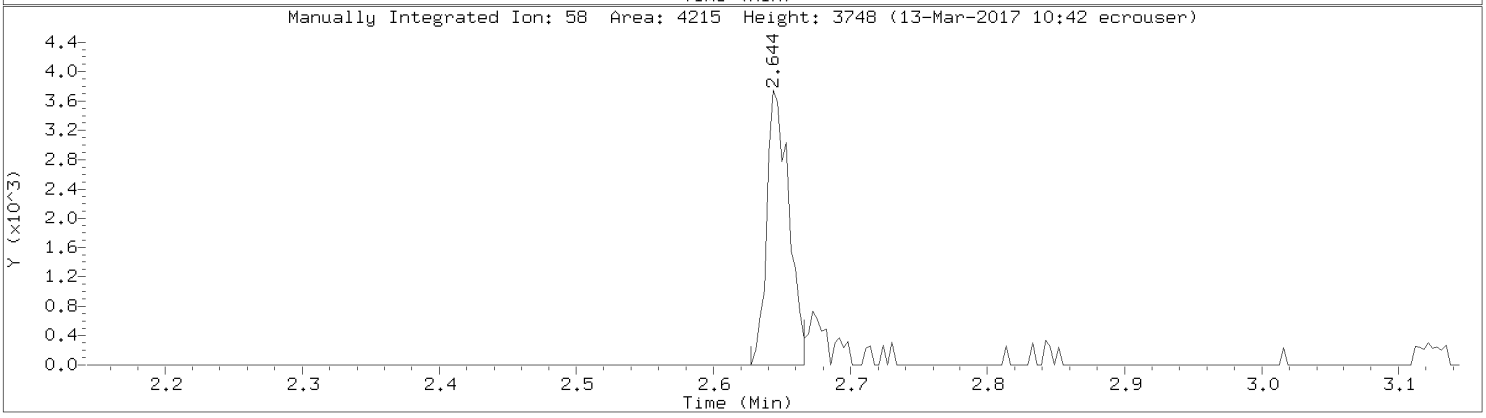
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Acetone
CAS Number: 67-64-1



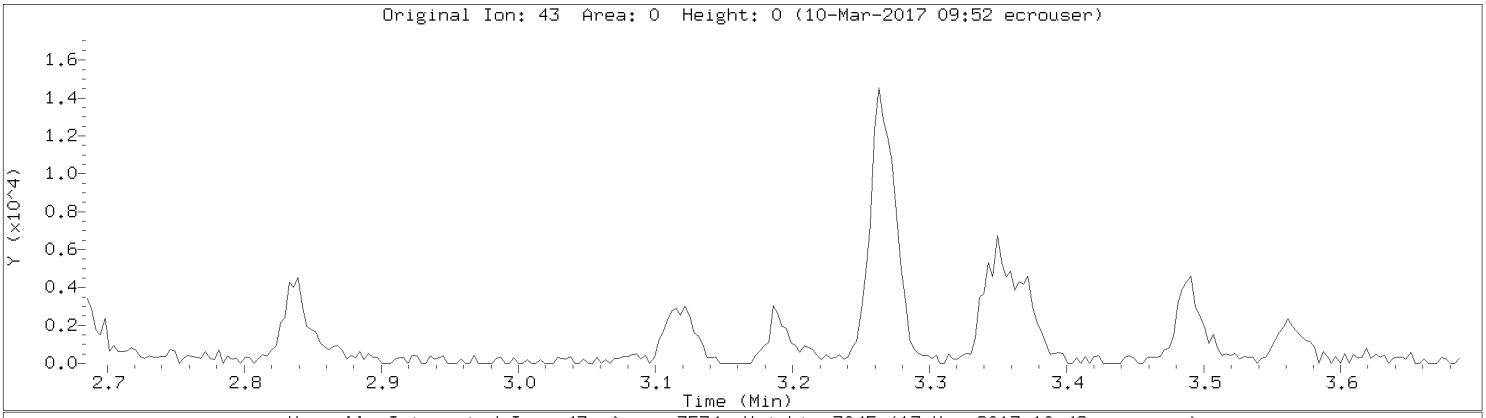


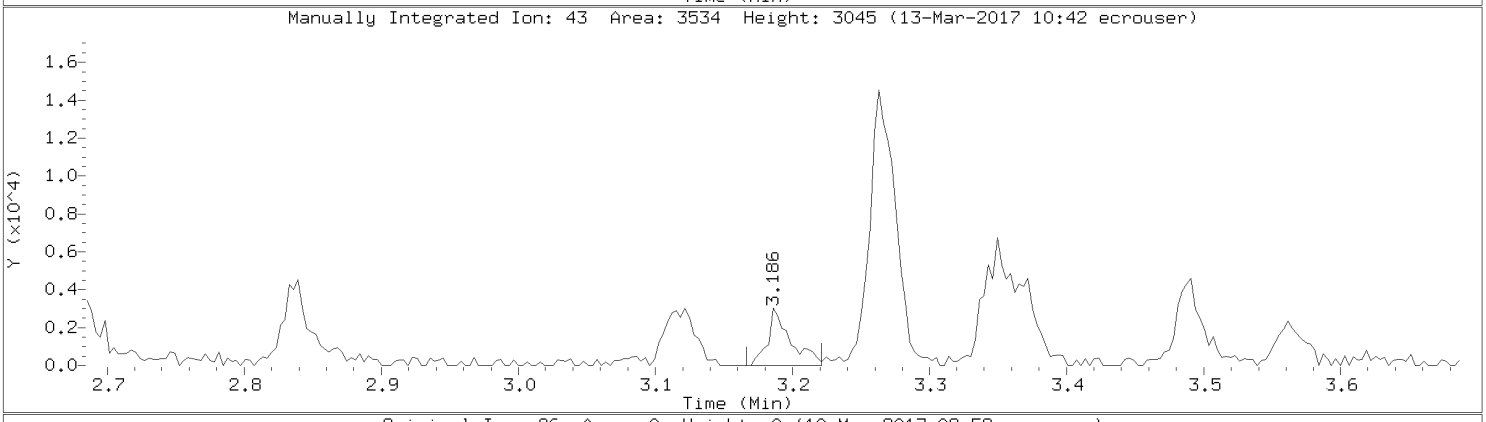


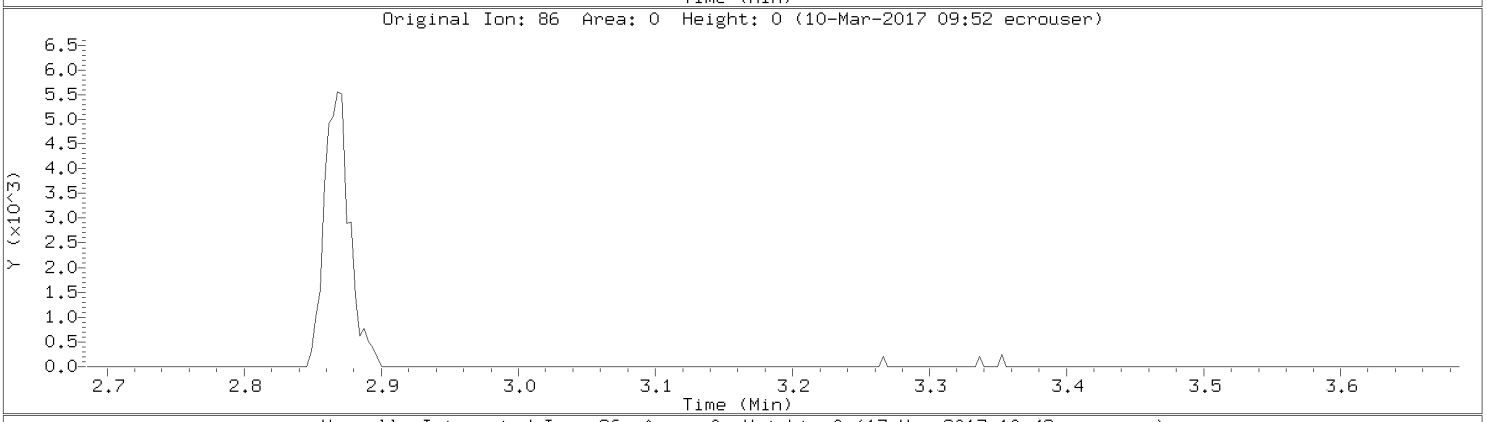


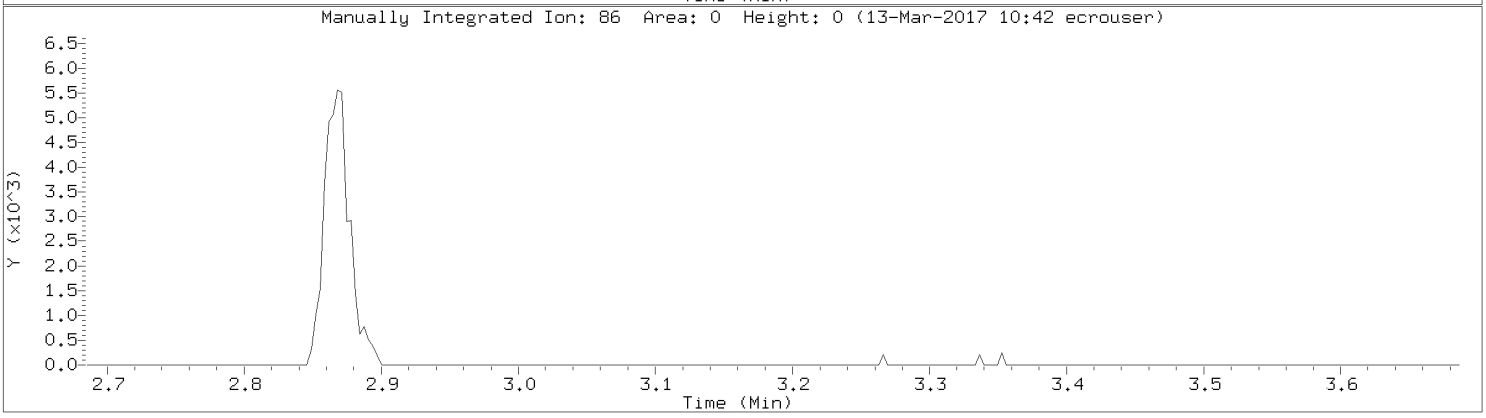
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Vinyl Acetate
CAS Number: 108-05-4



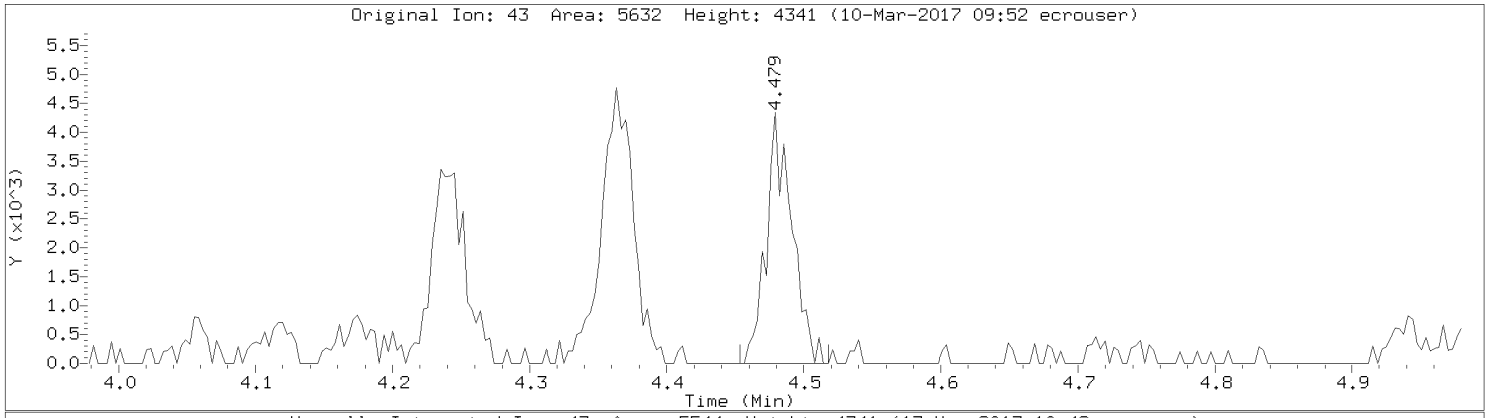


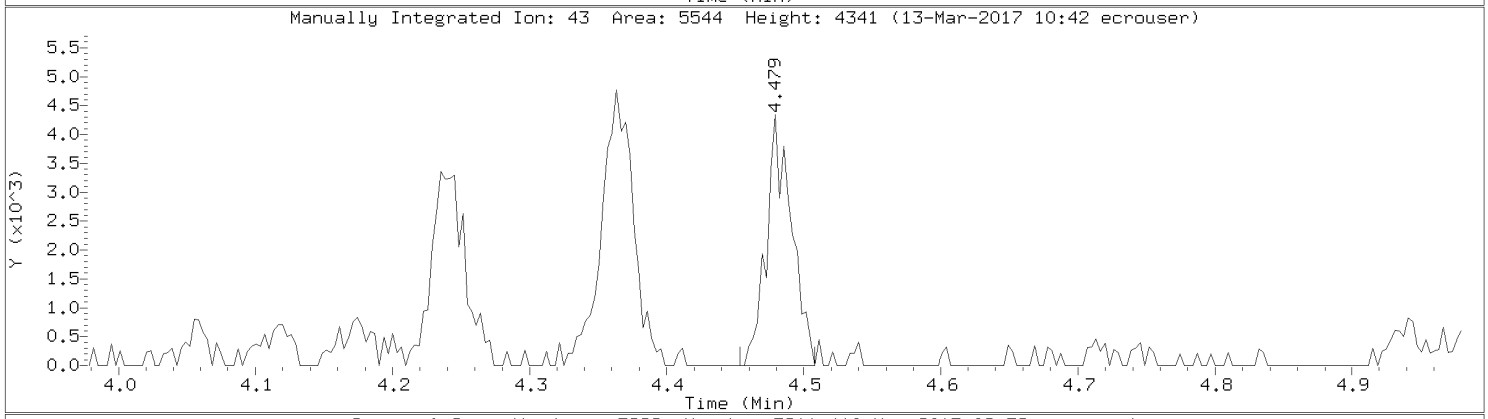


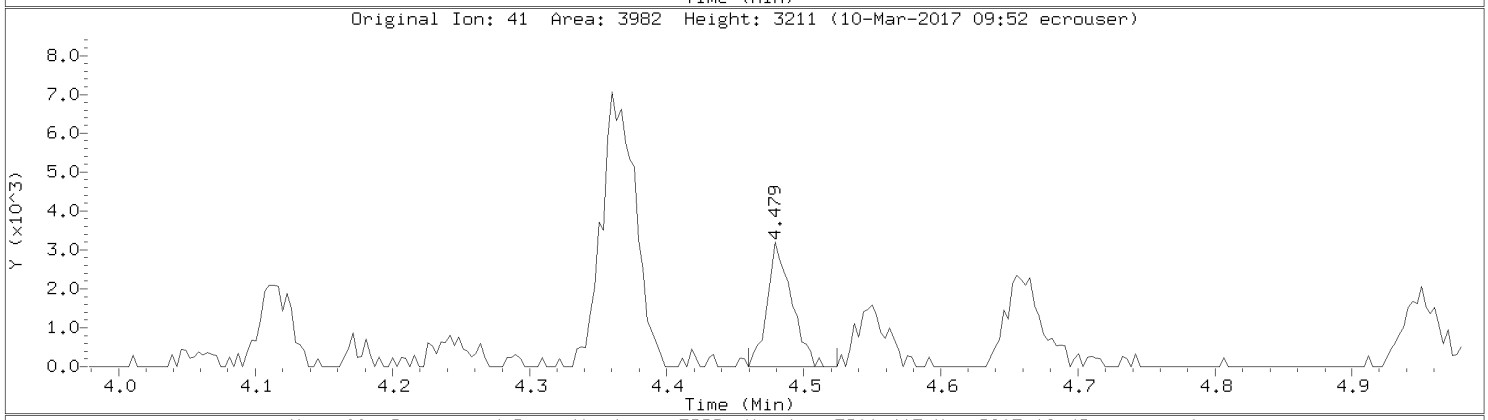


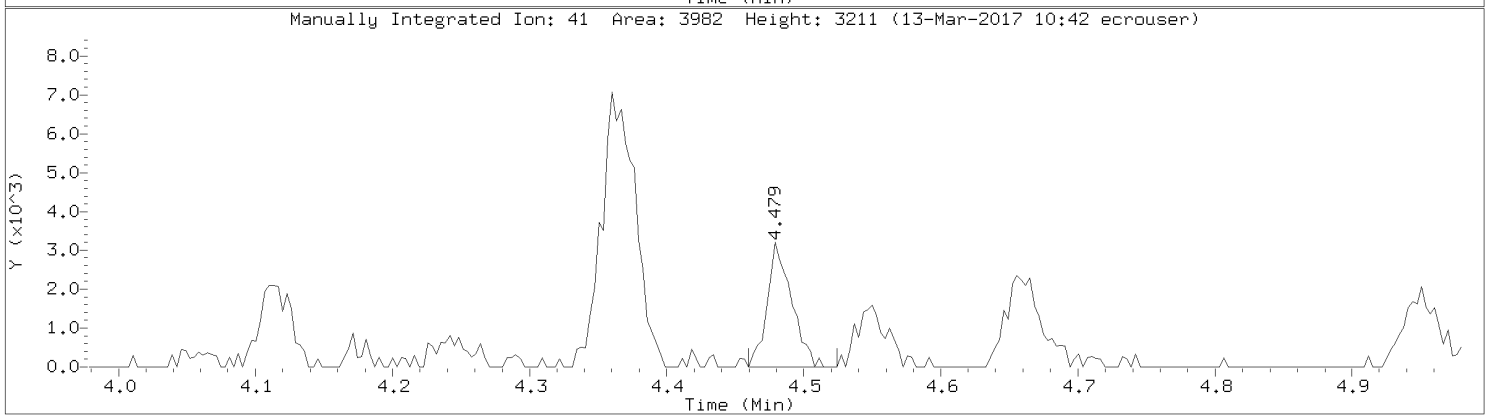
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Heptane
CAS Number: 142-82-5



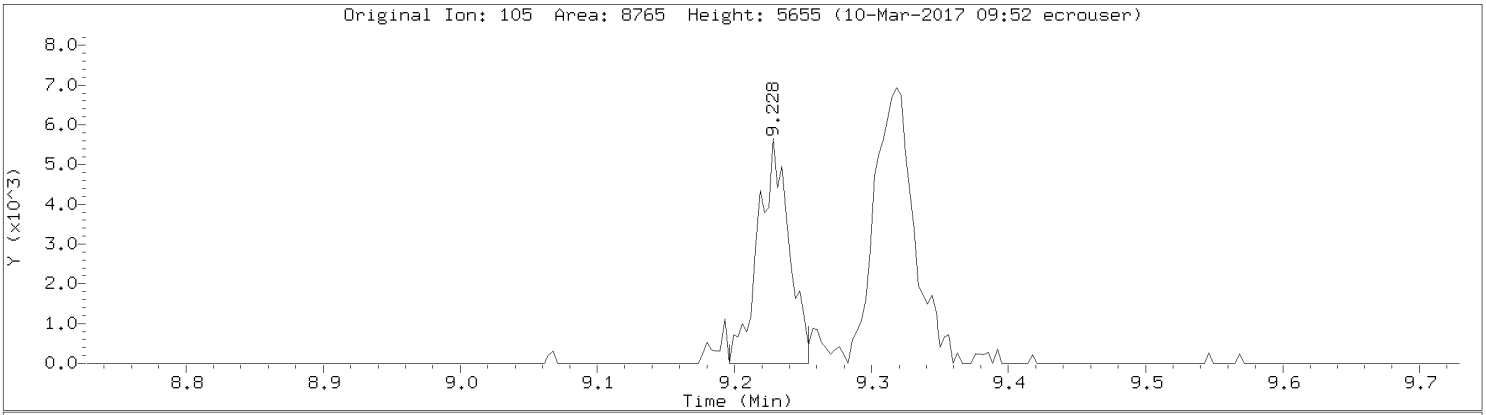


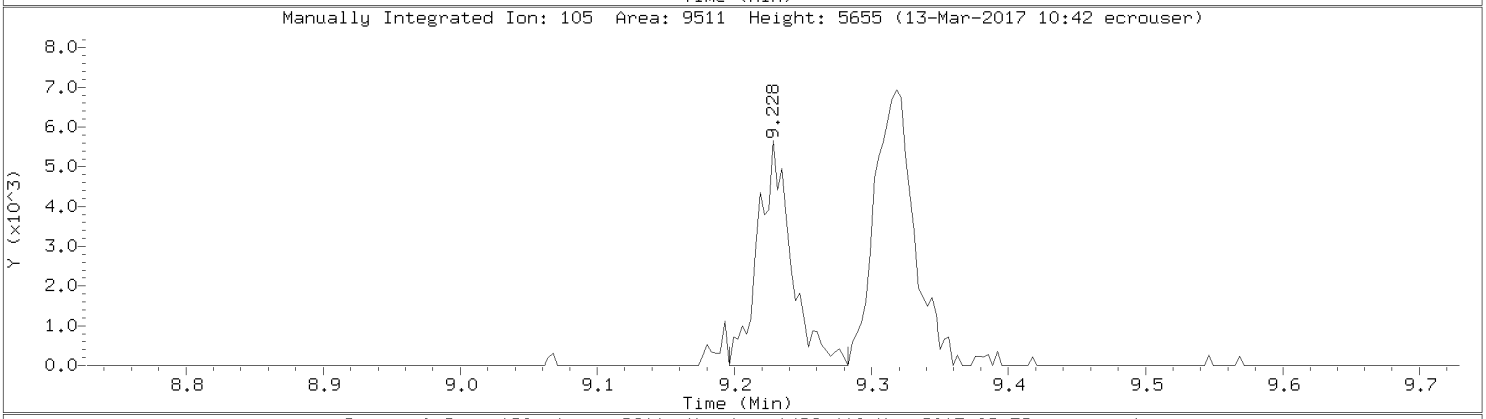


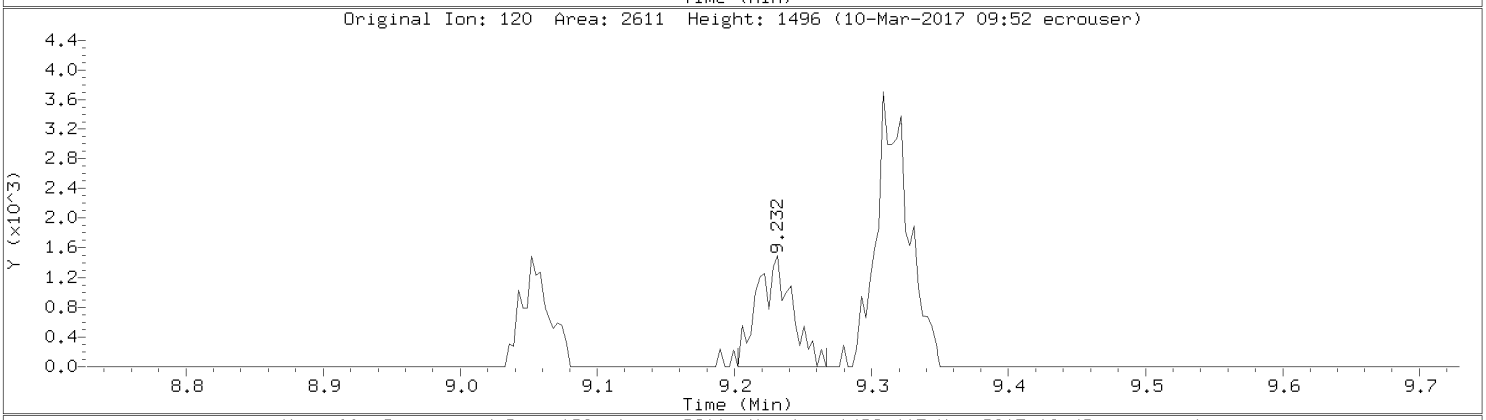


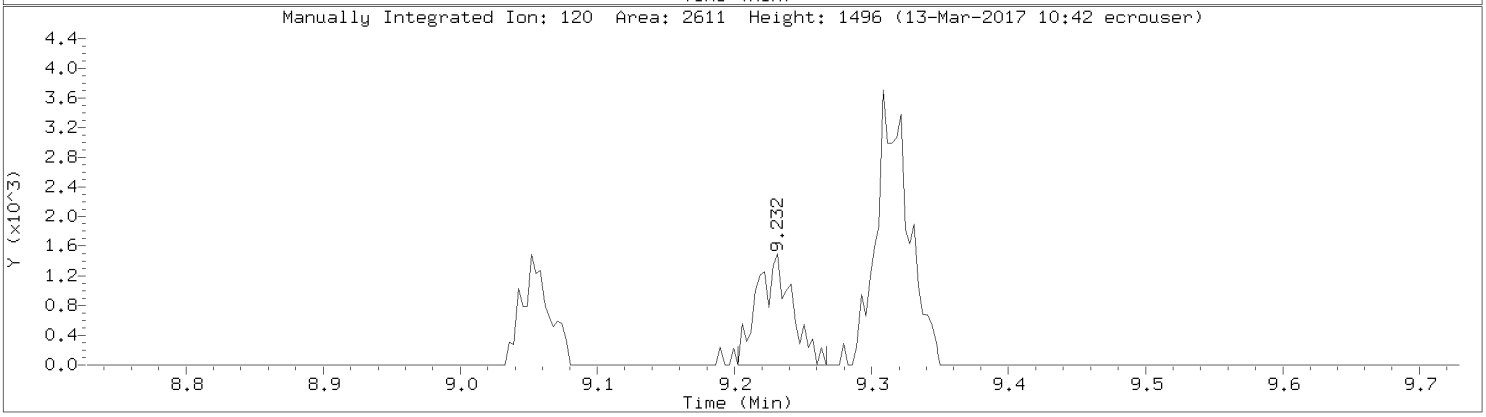
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

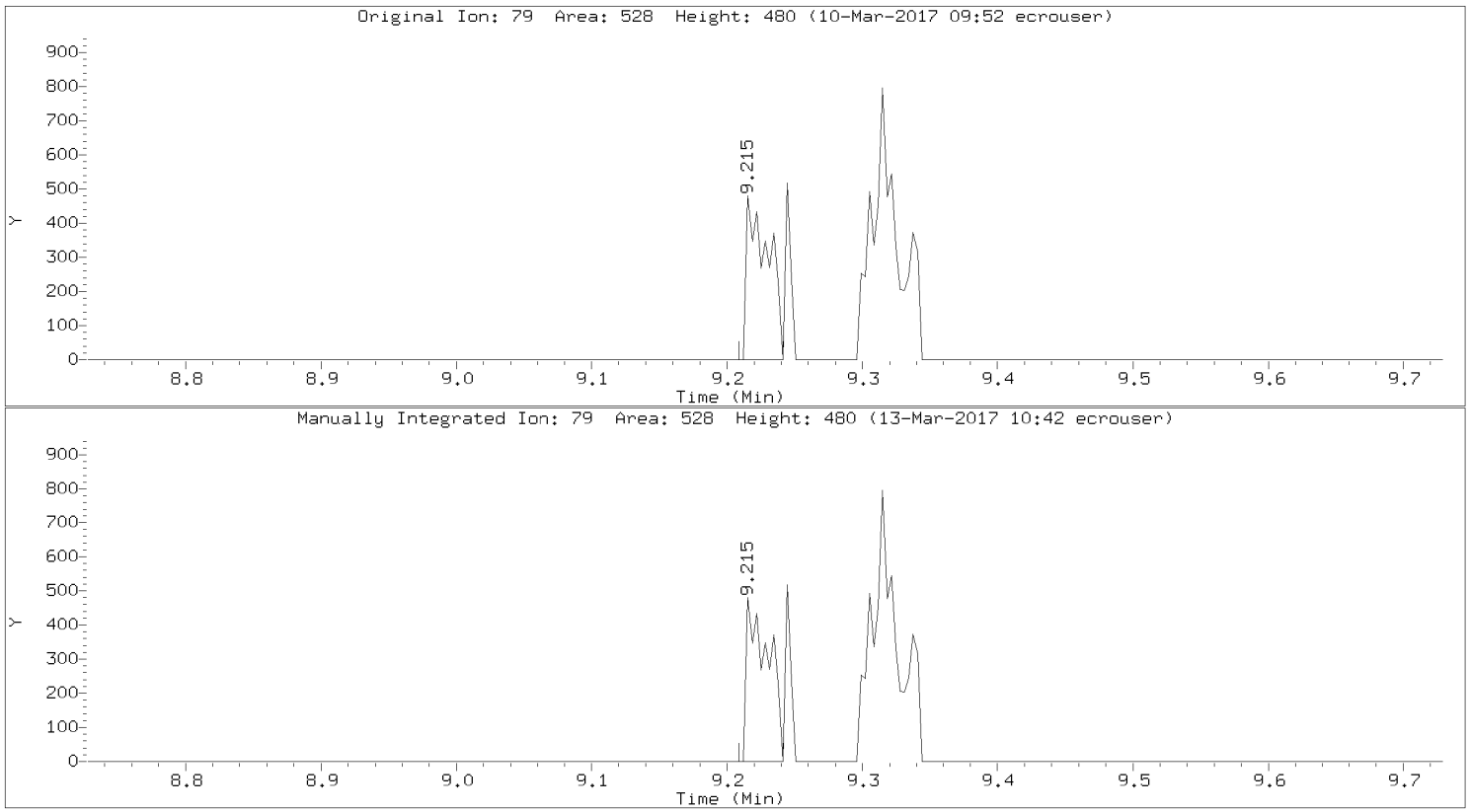






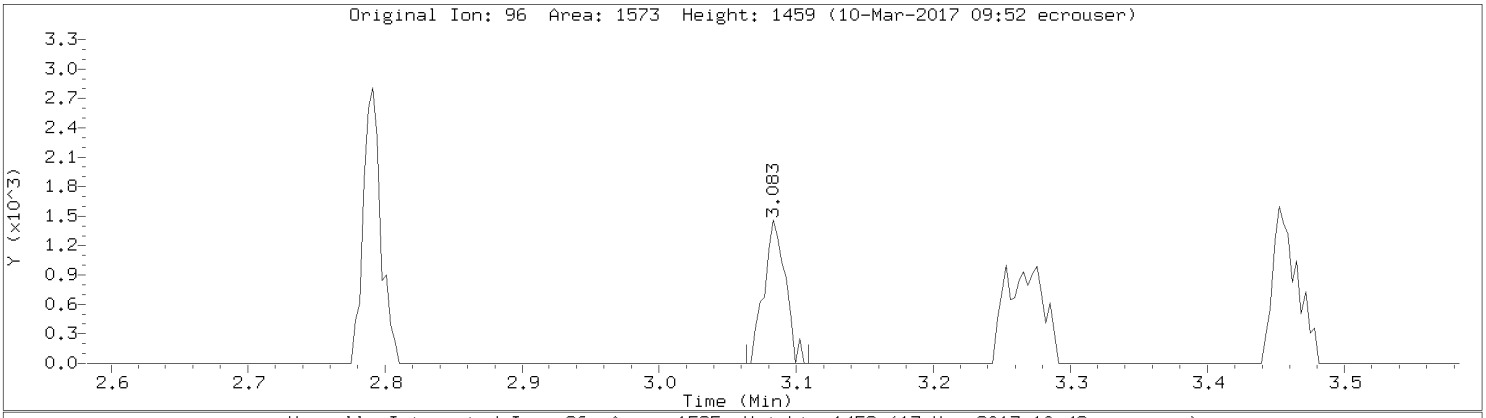


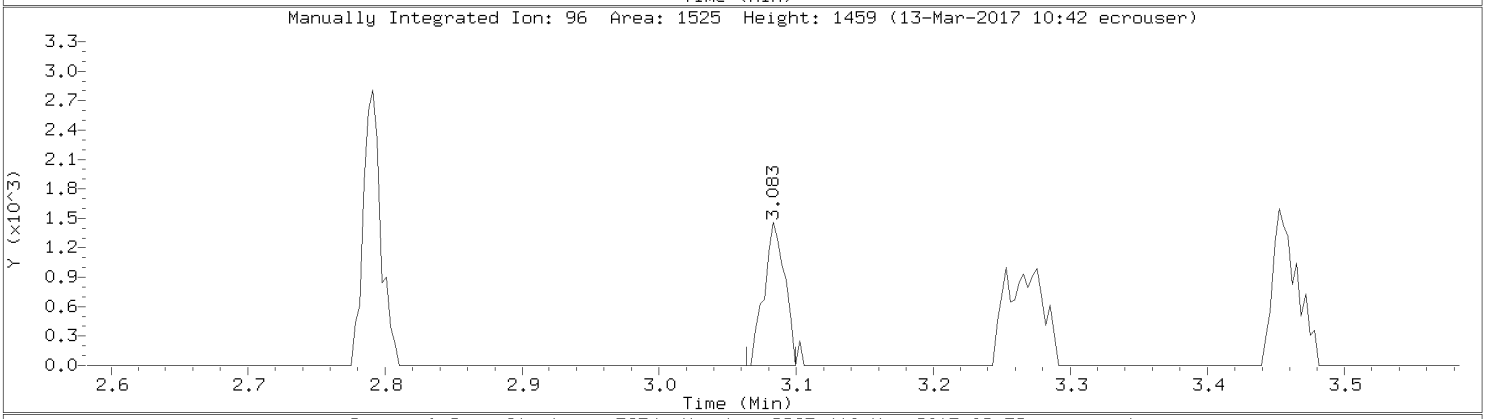
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

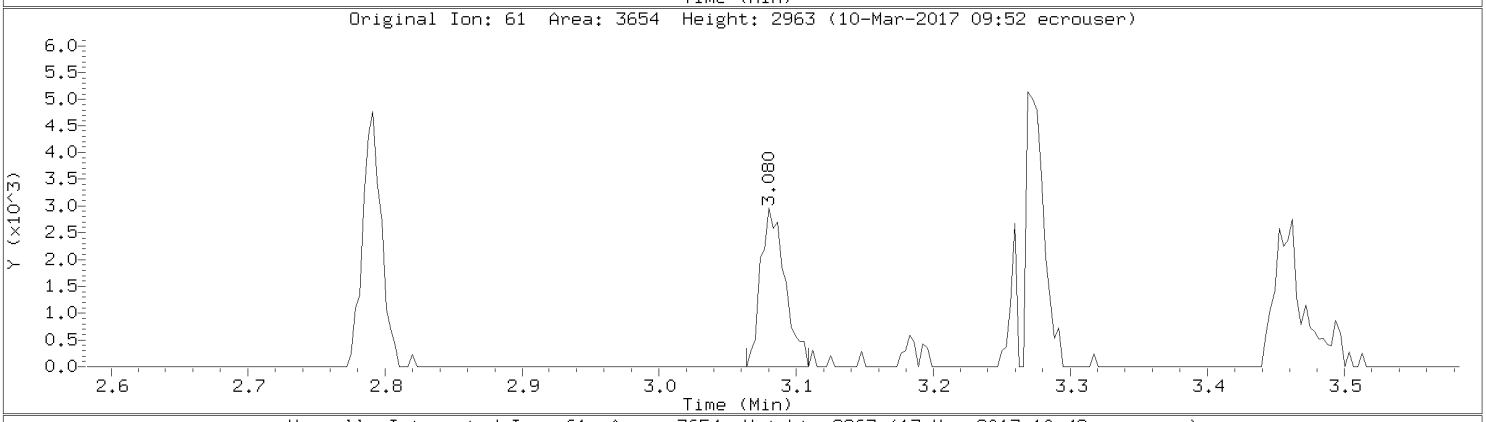


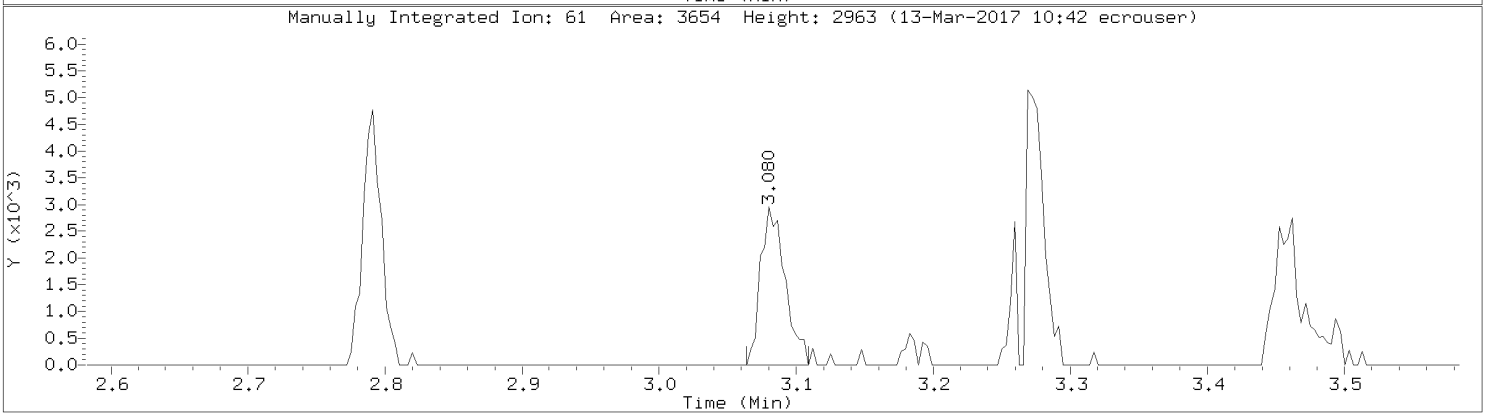
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: trans-1,2-dichloroethene
CAS Number: 156-60-5

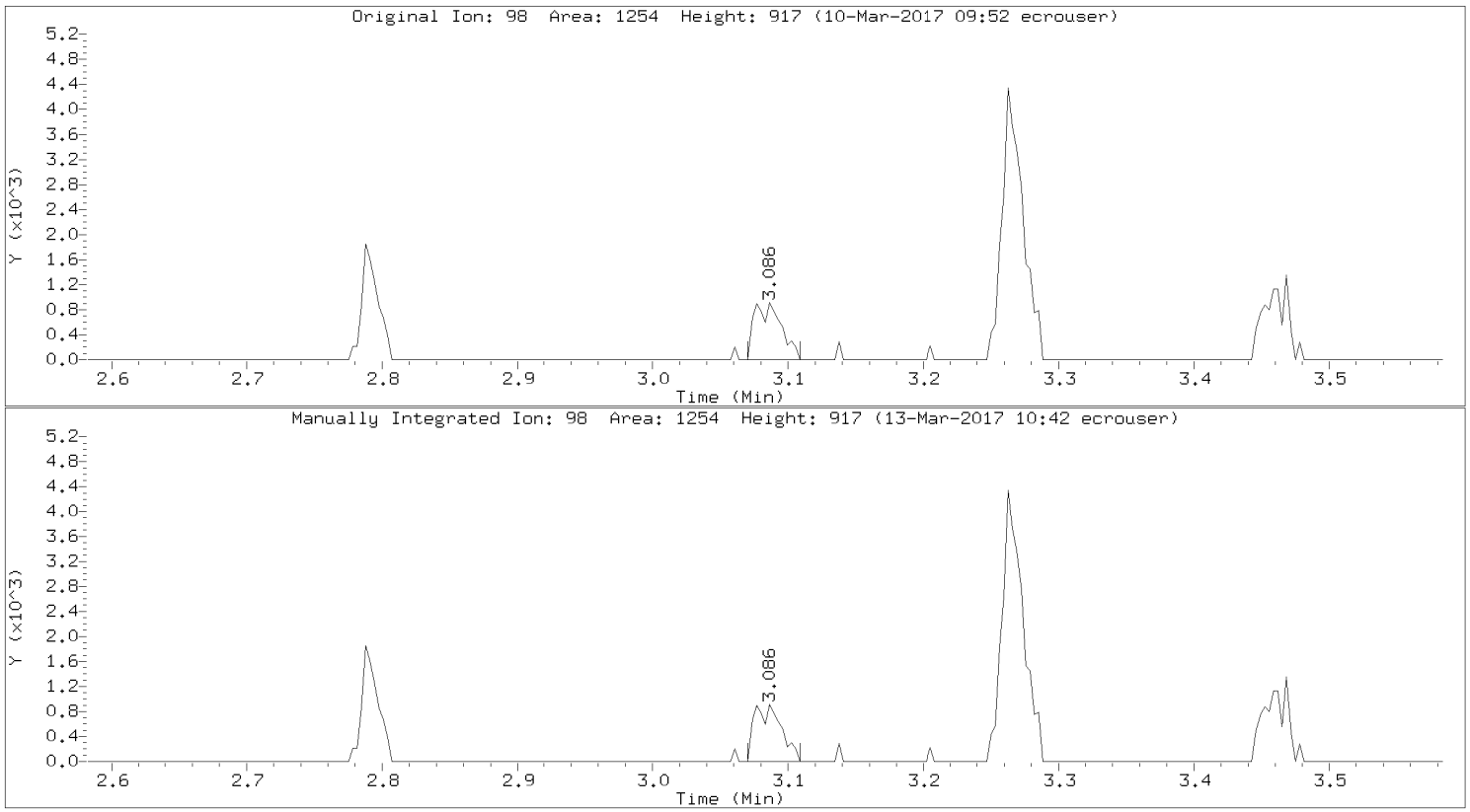






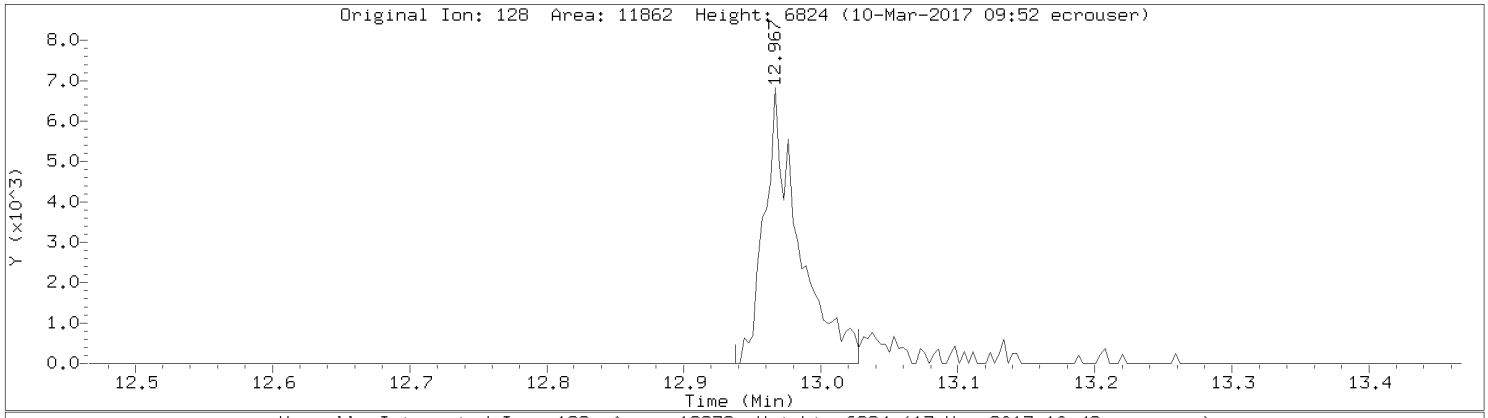


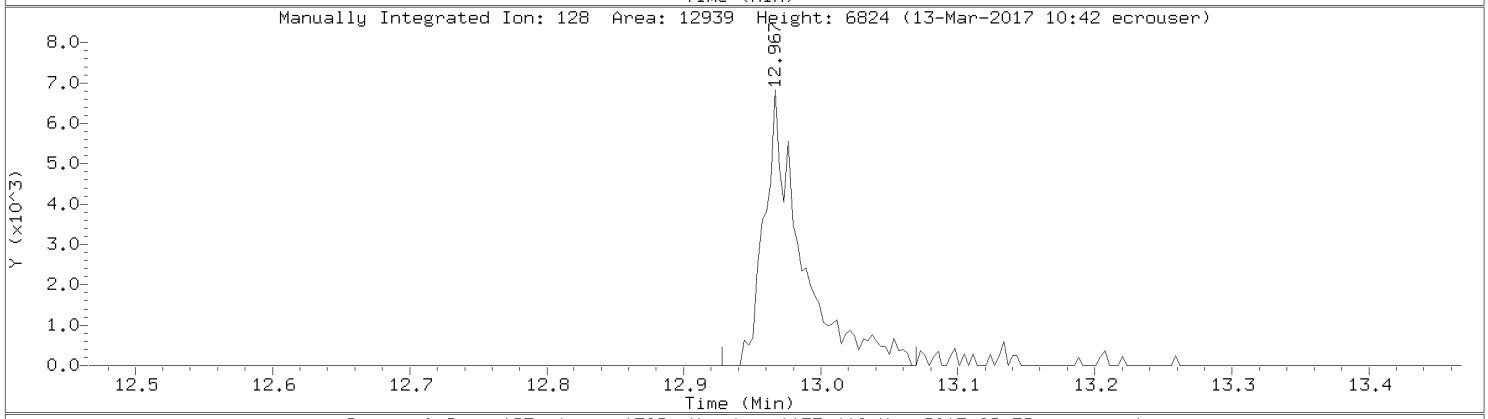
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

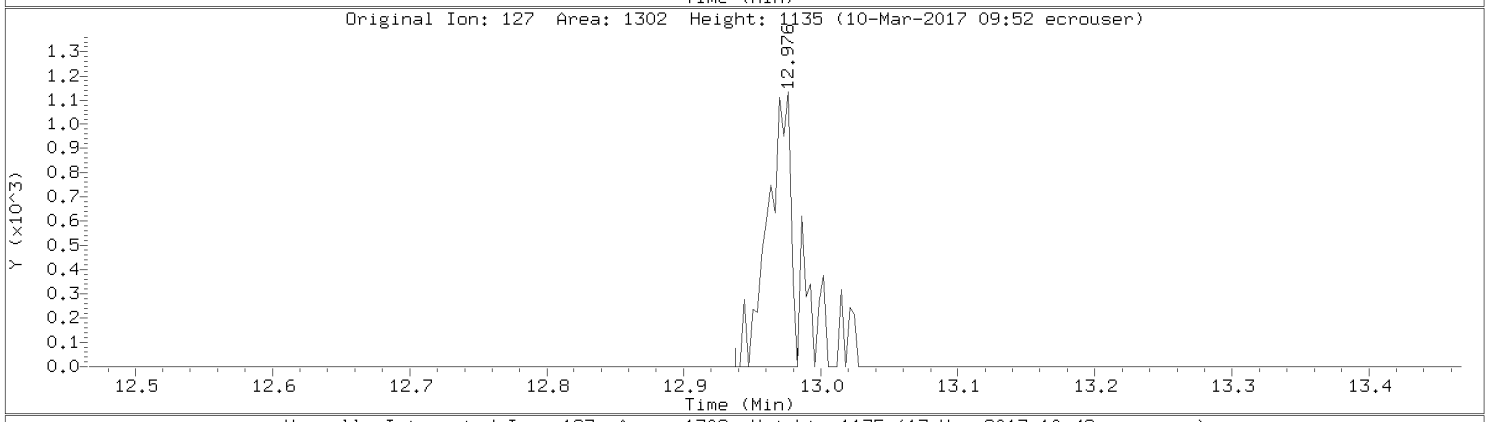


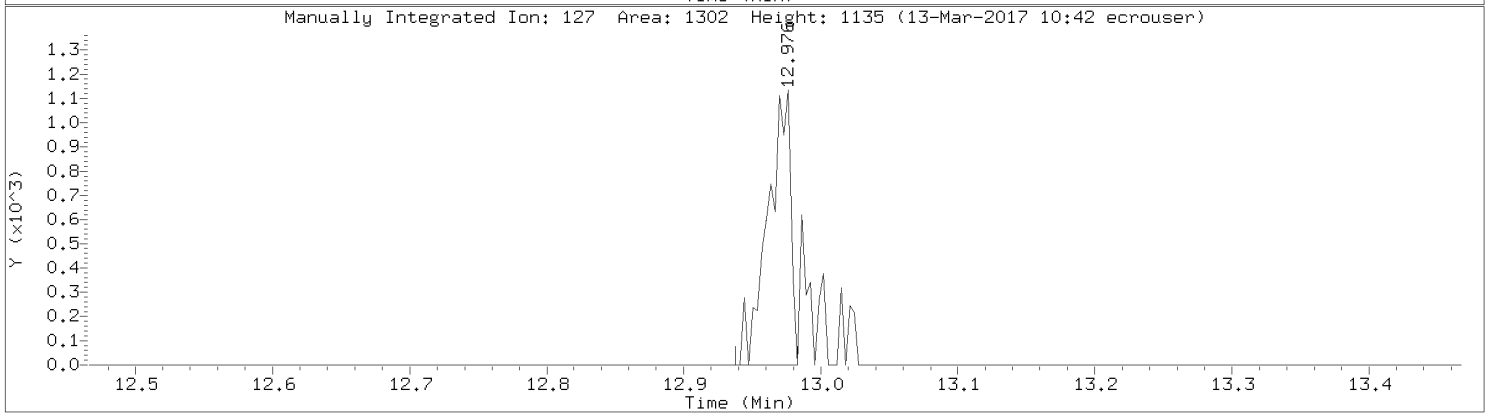
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Naphthalene
CAS Number: 91-20-3



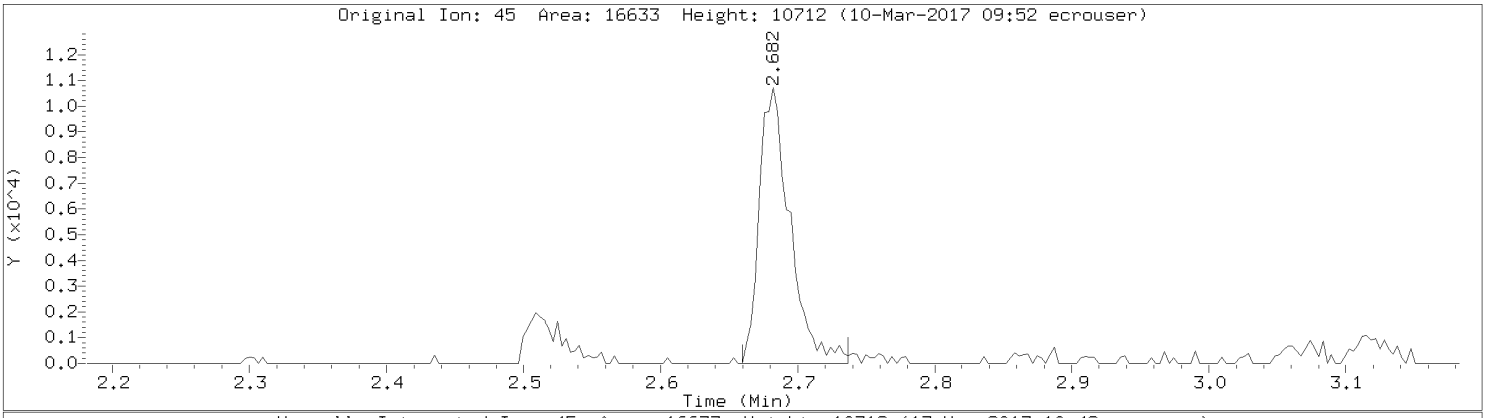


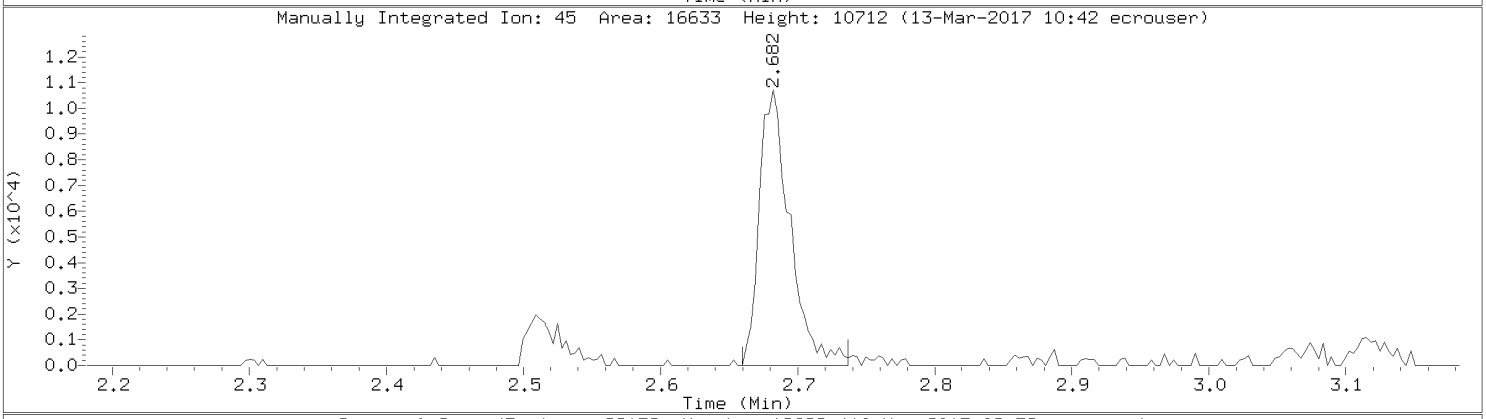


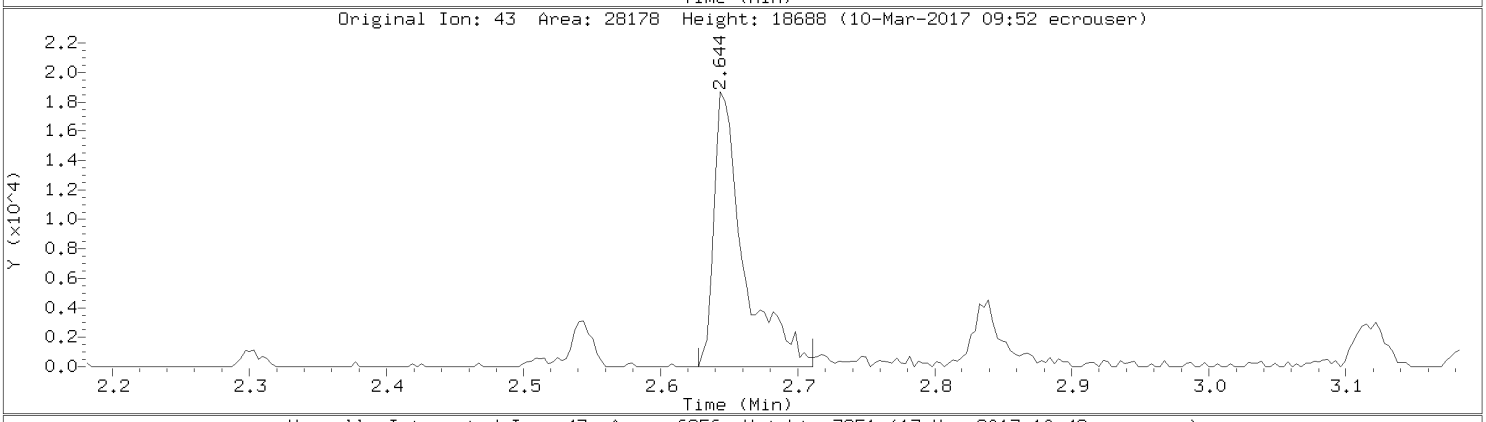


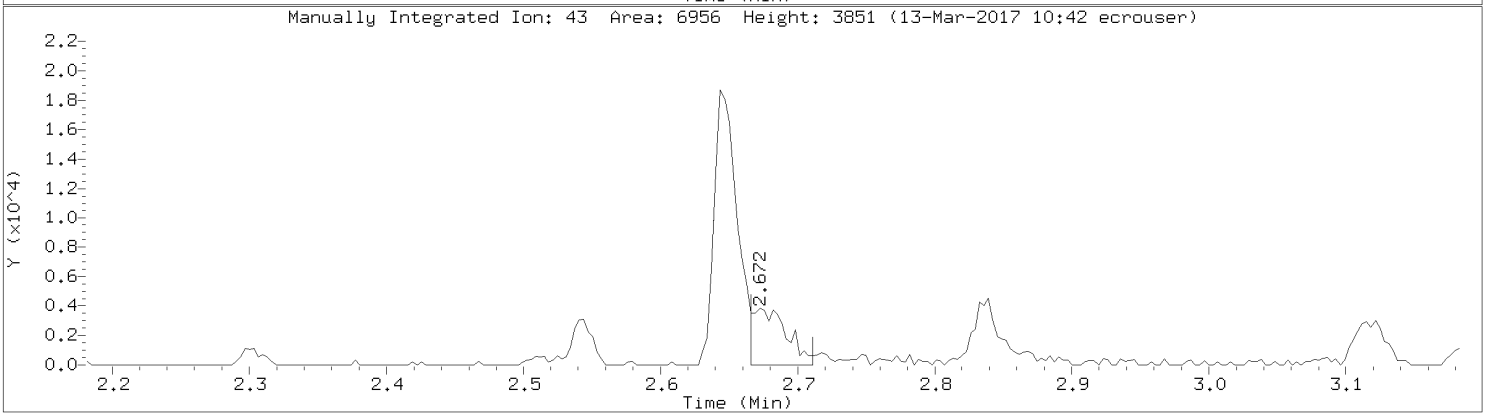
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



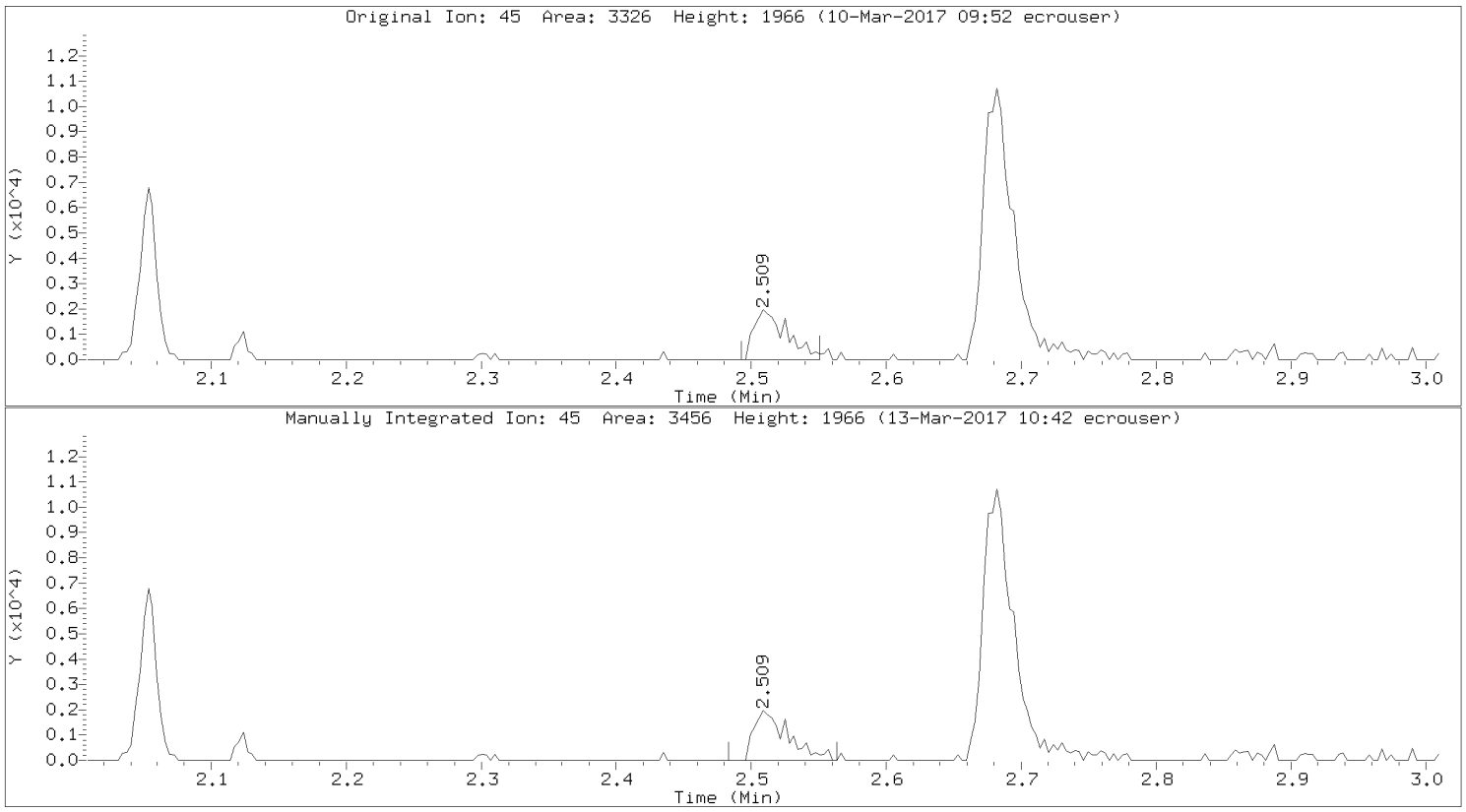






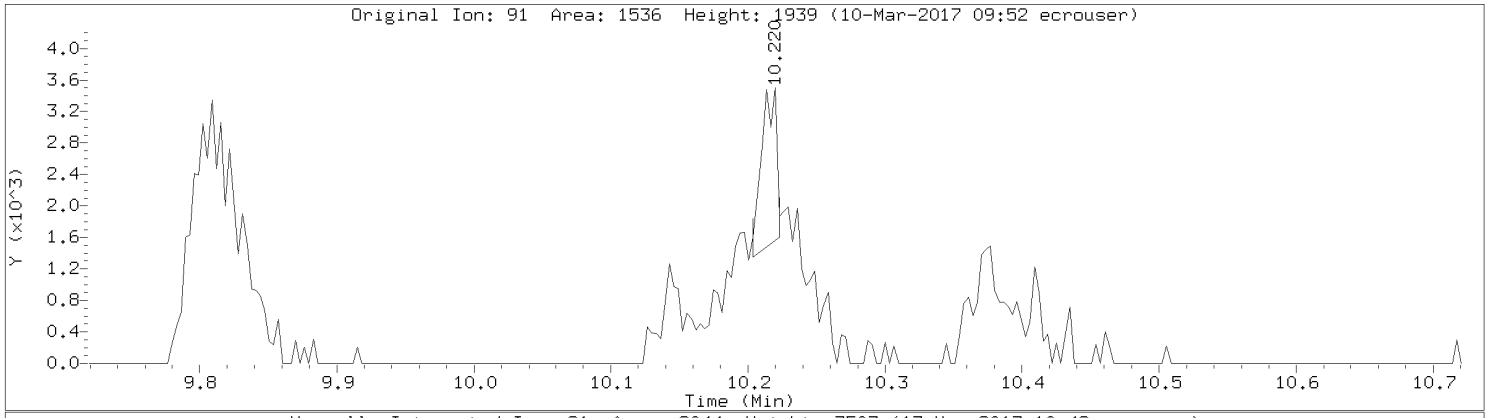
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

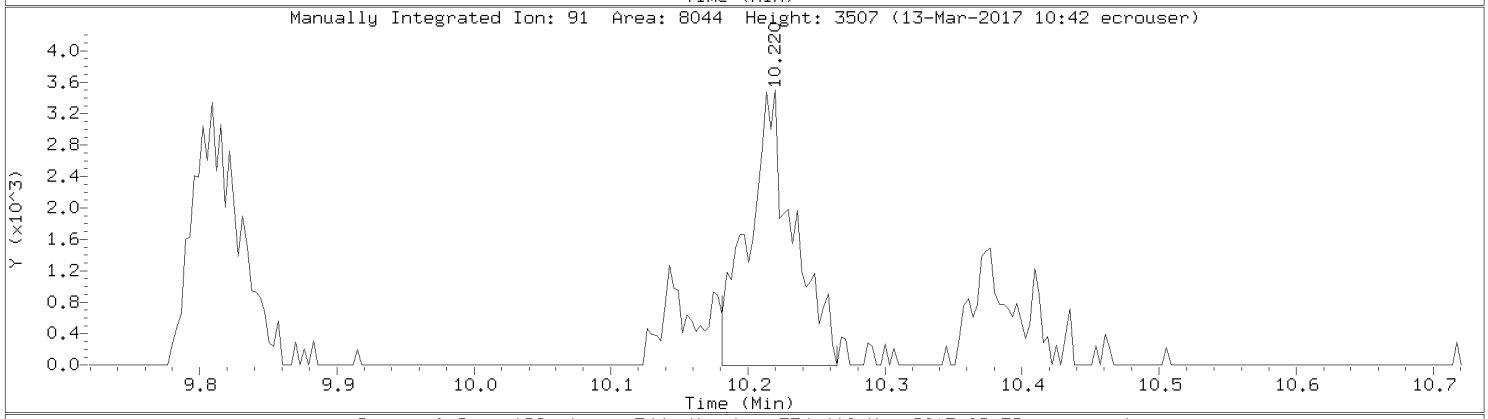
Compound: Ethanol
CAS Number: 64-17-5

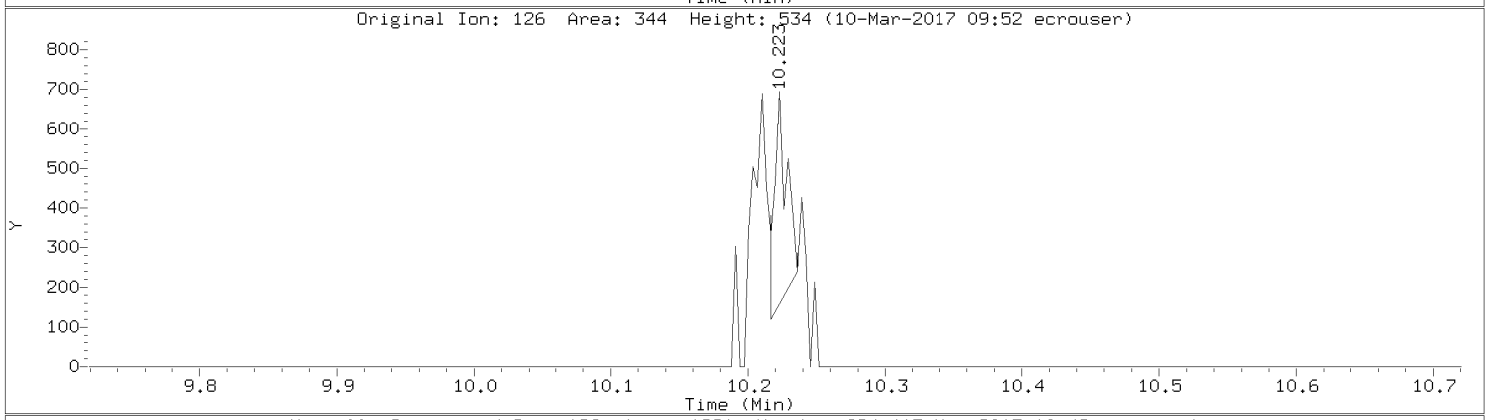


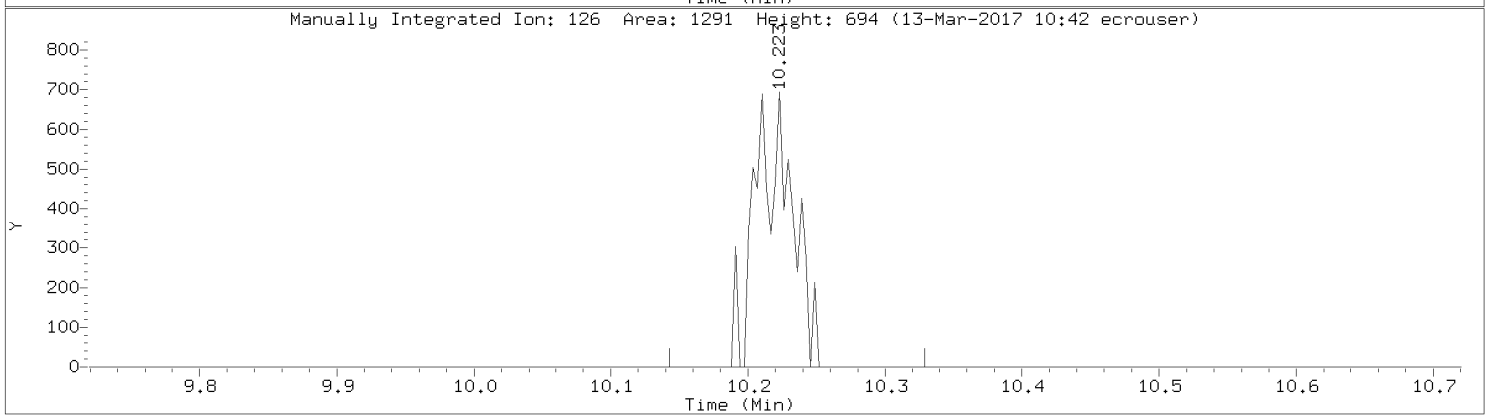
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Benzyl Chloride
CAS Number: 100-44-7



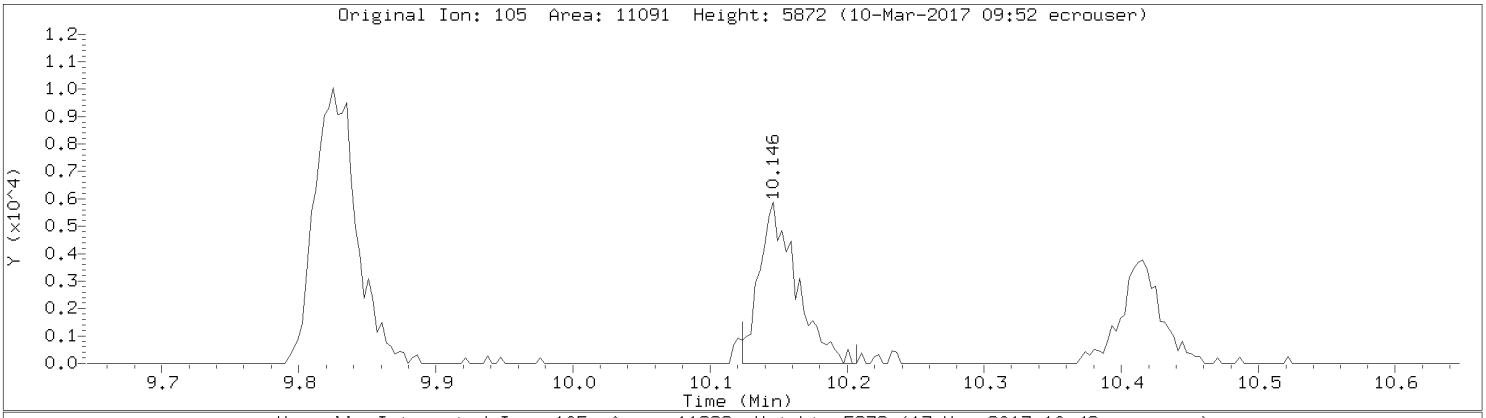


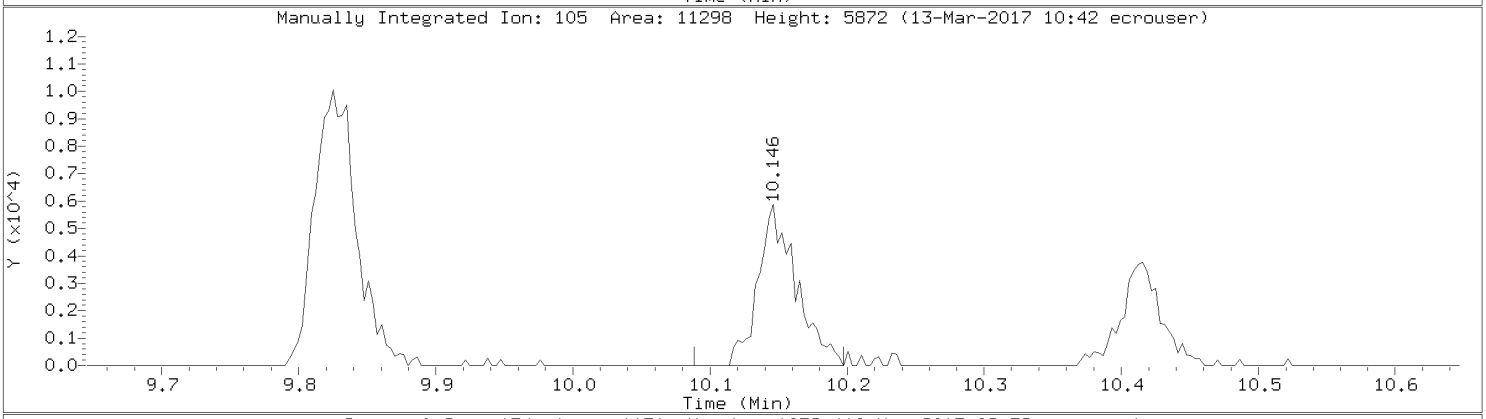


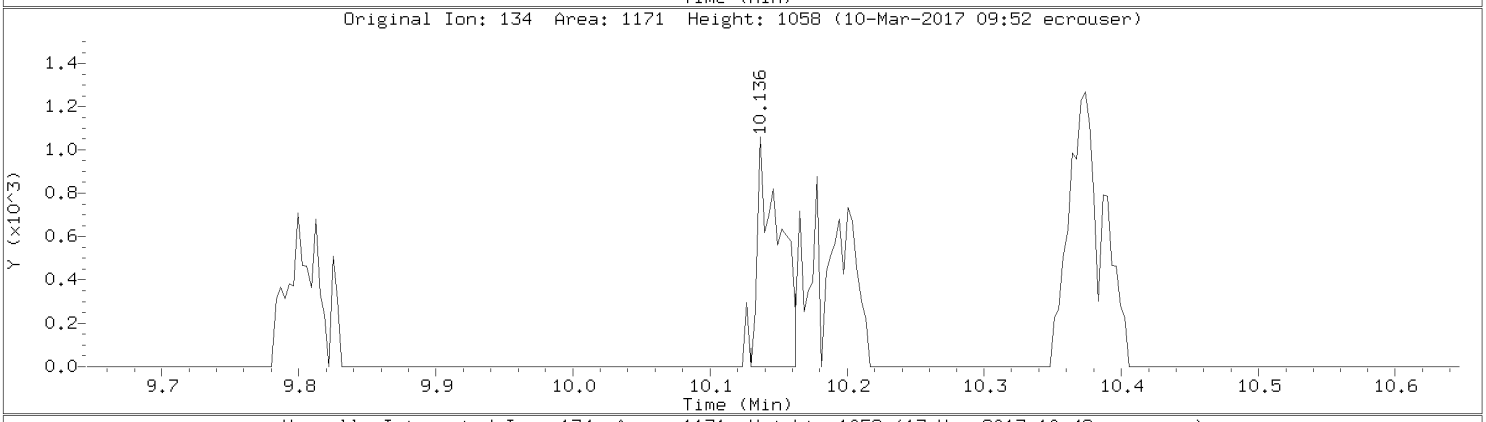


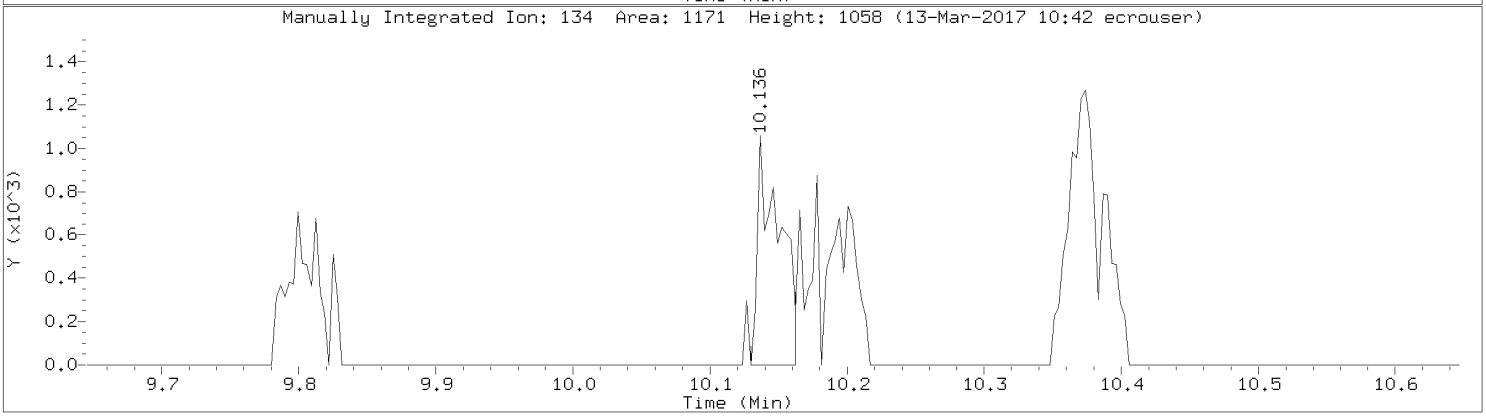
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Sec- Butylbenzene
CAS Number: 135-98-8



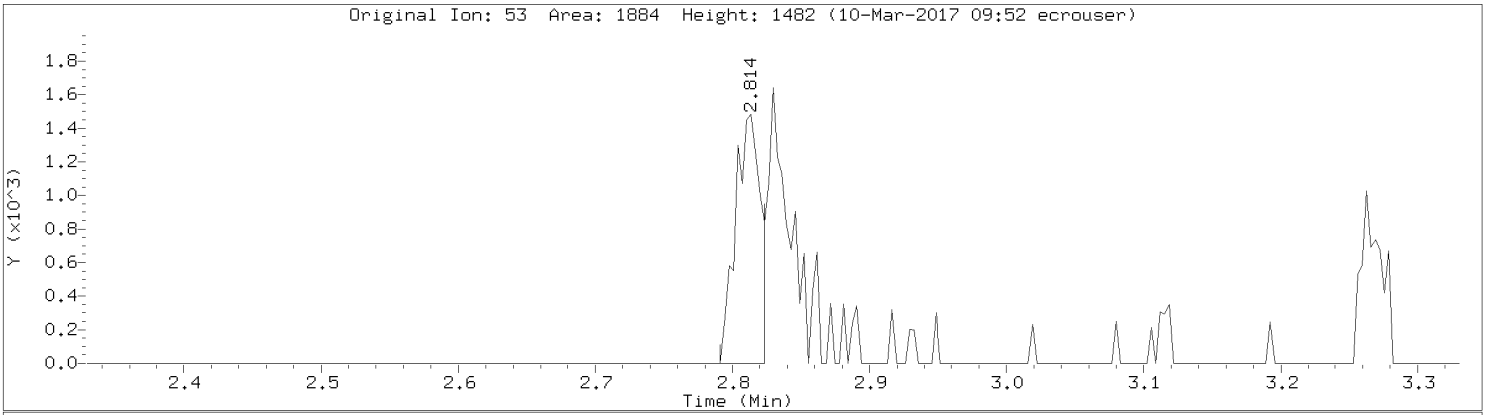


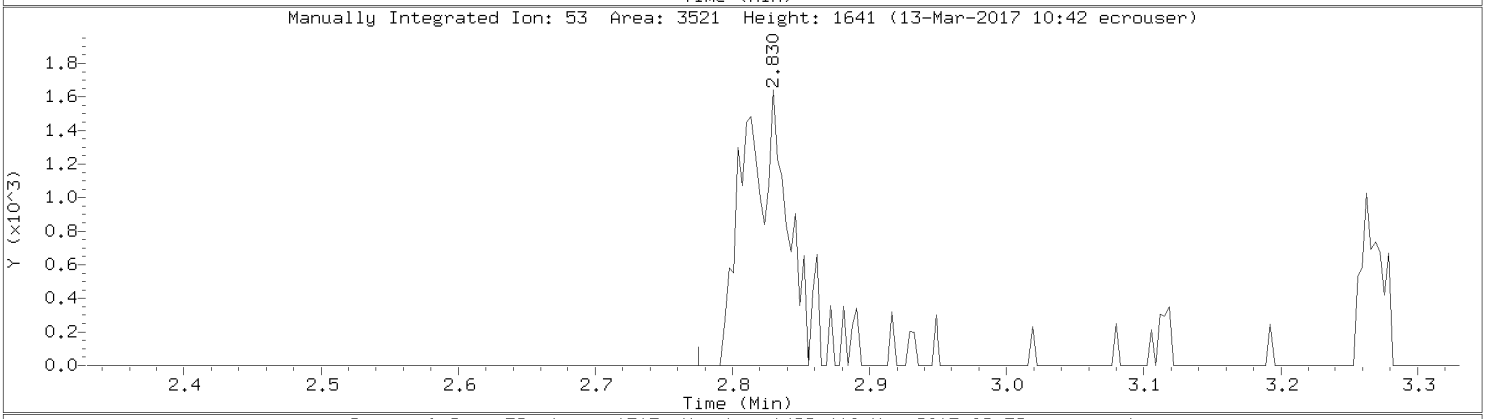


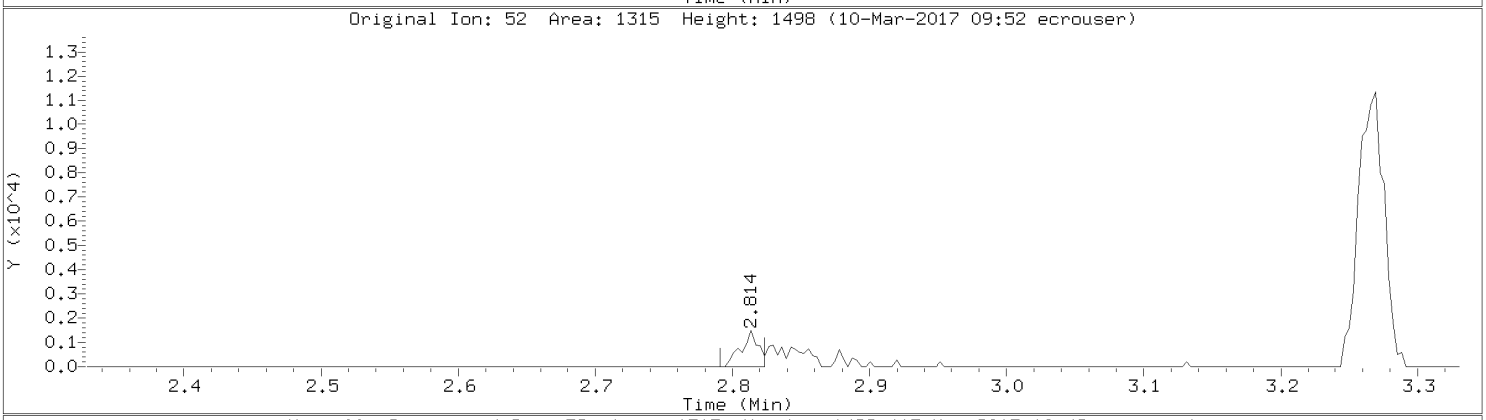


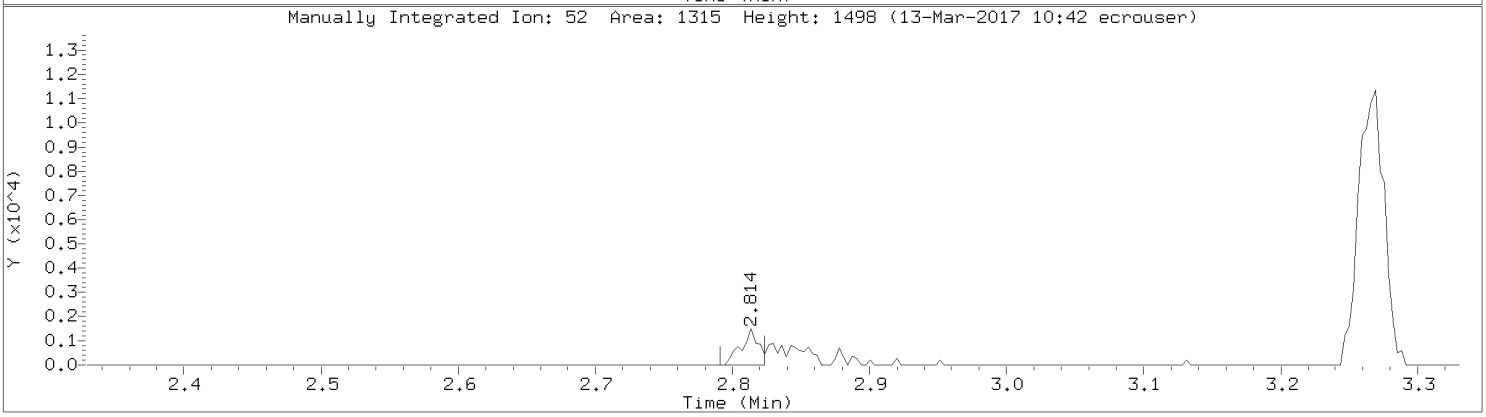
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Acrylonitrile
CAS Number: 107-13-1



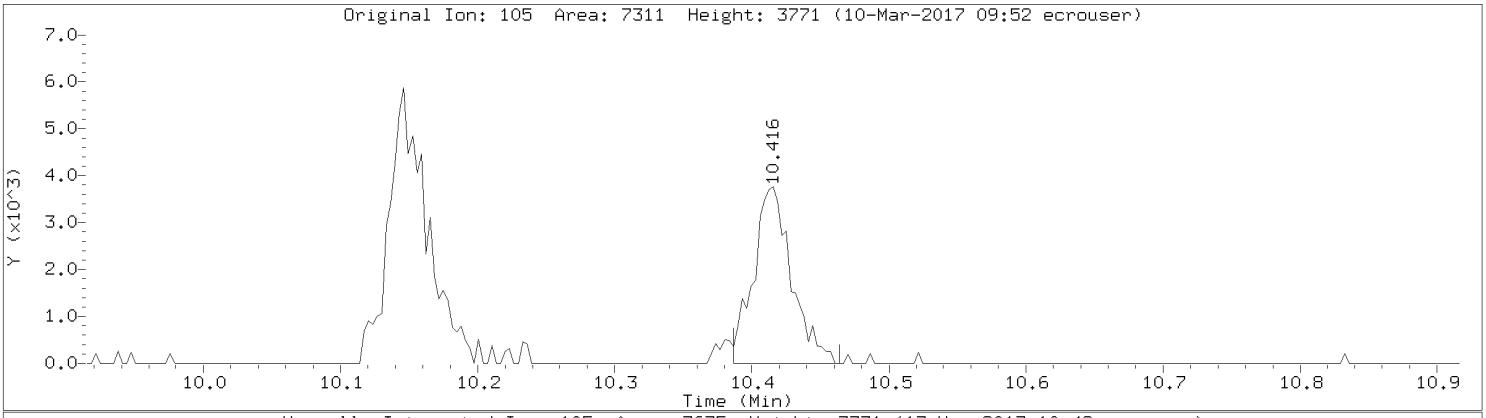


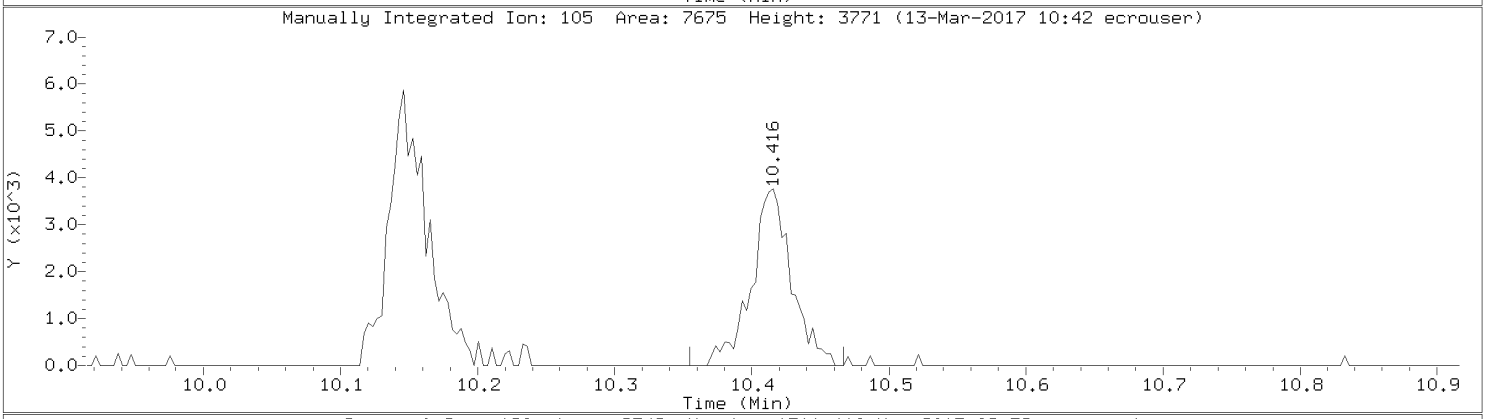


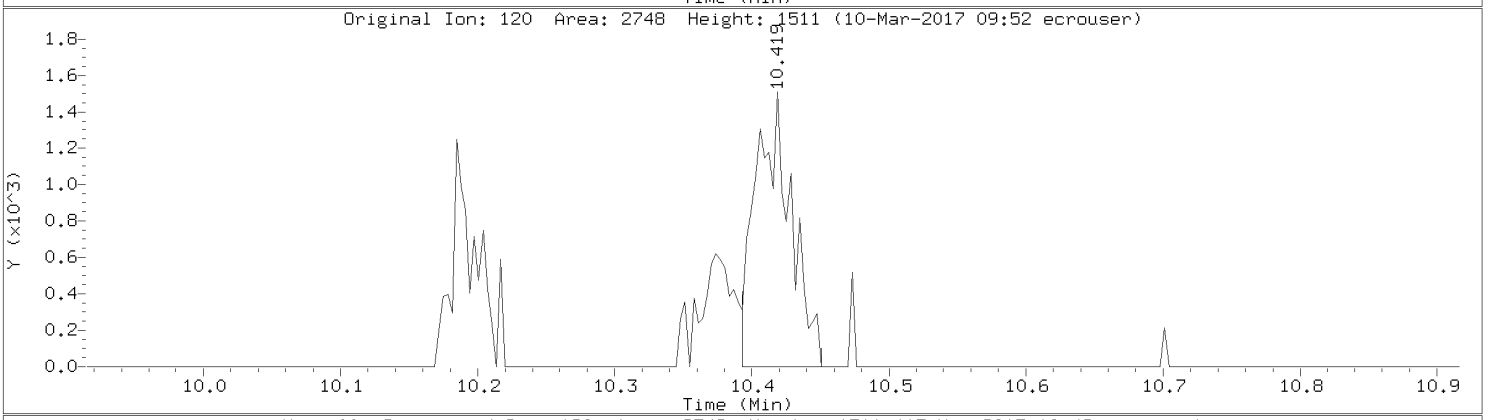


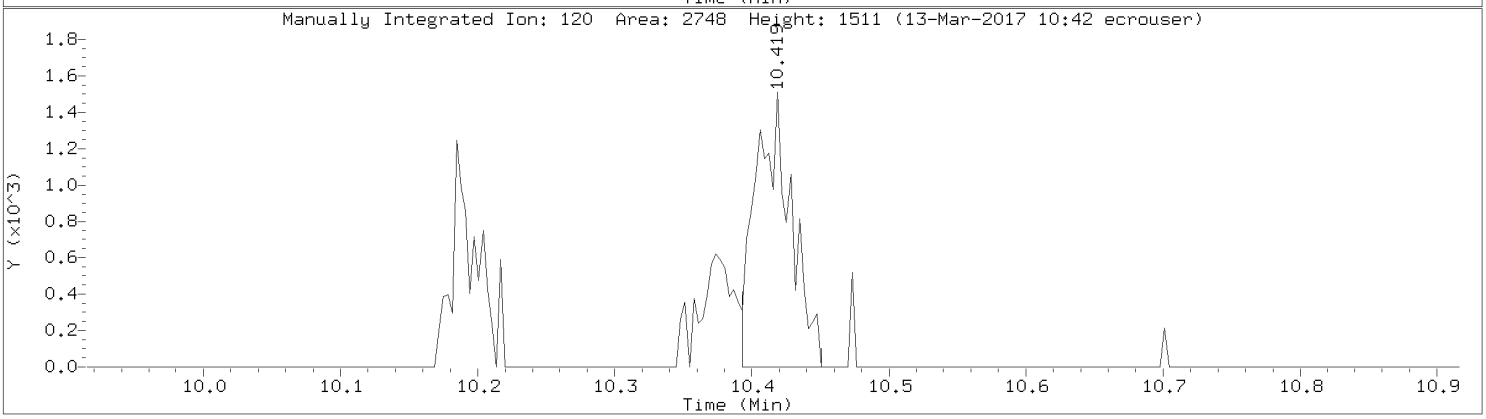
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,2,3-Trimethylbenzene
CAS Number: 526-73-8



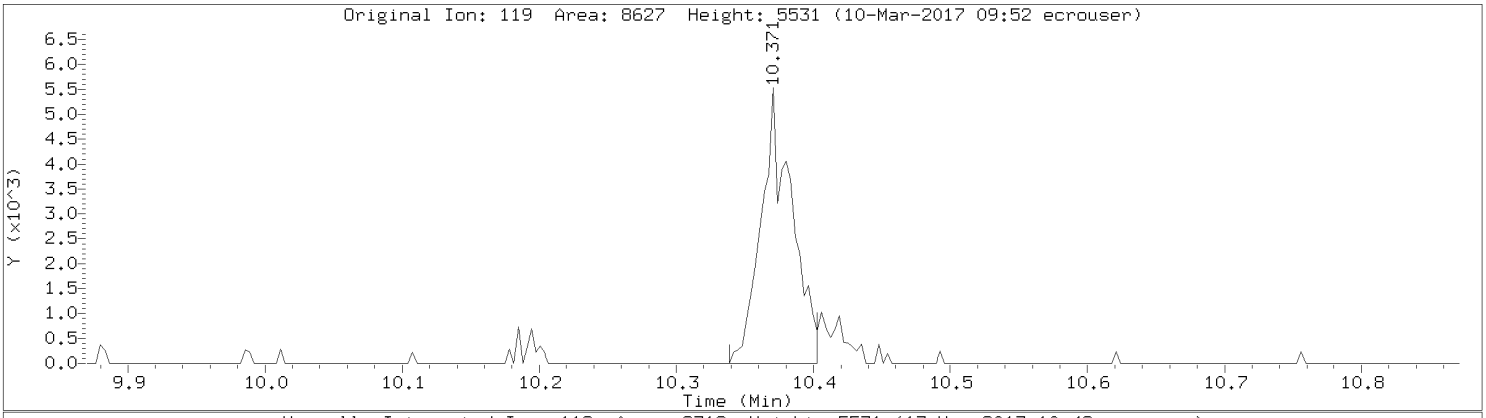


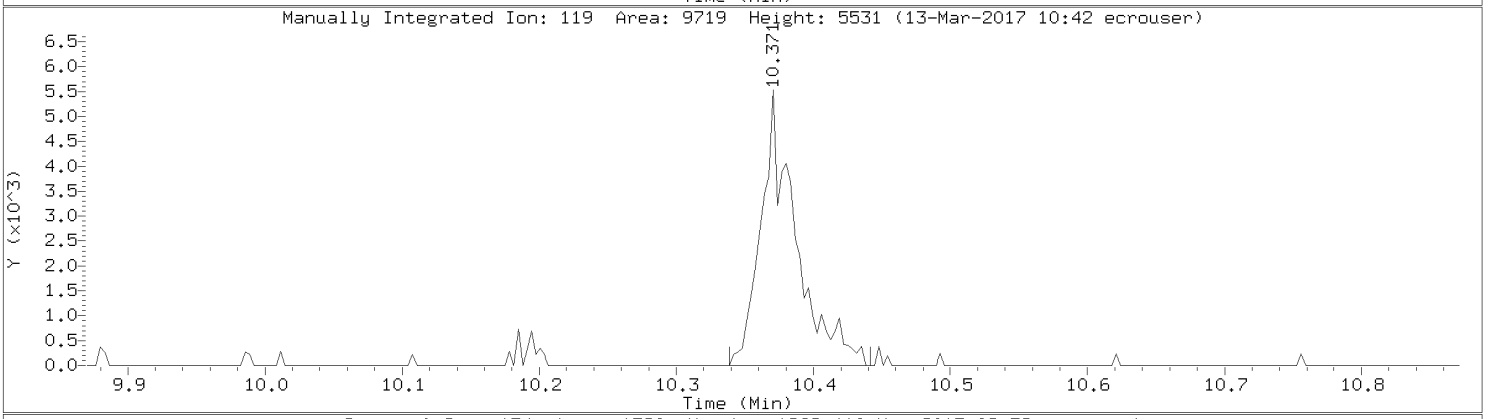


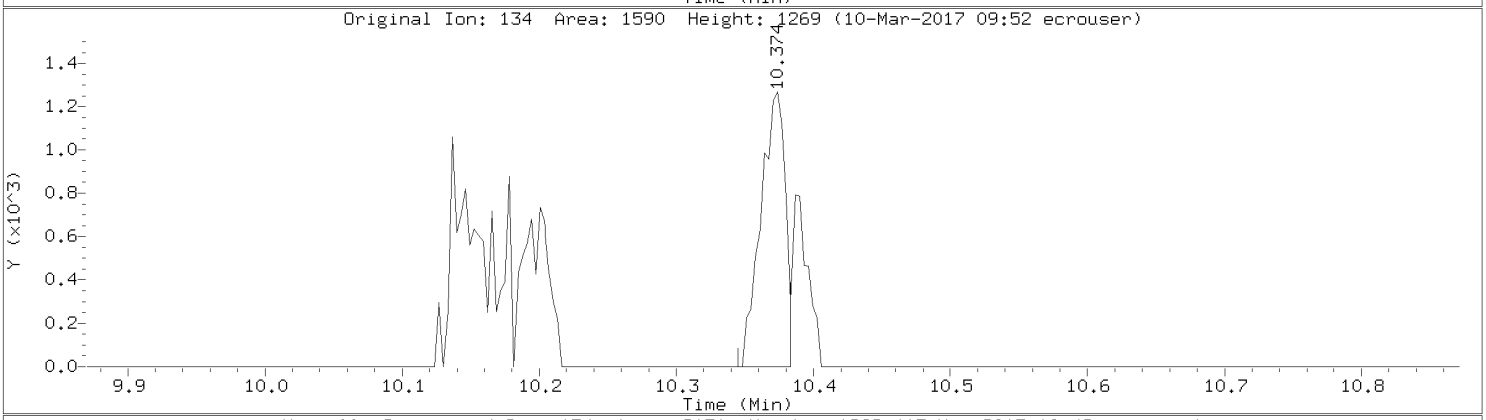


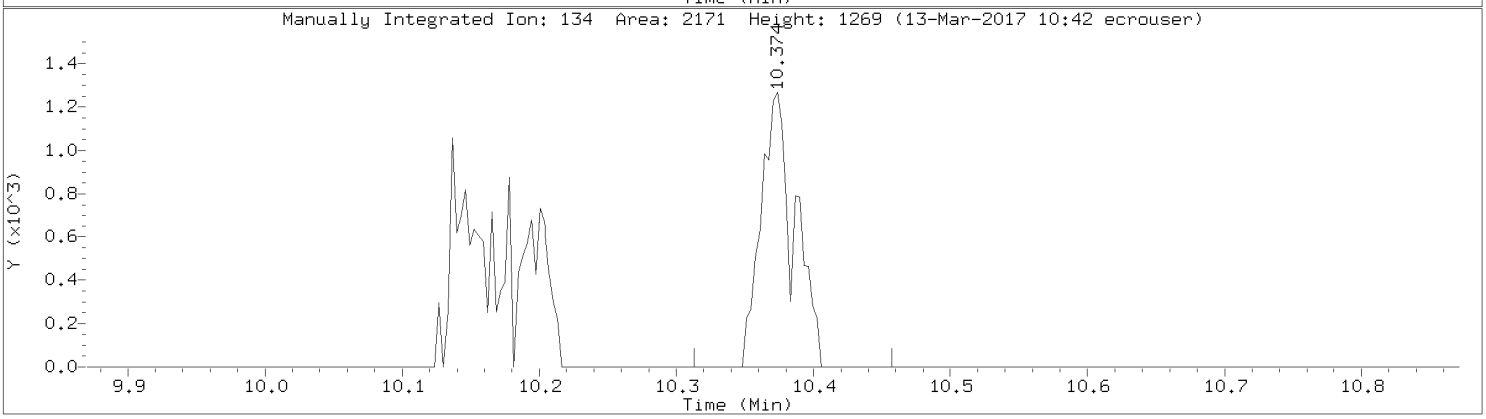
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: p-Isopropyltoluene
CAS Number: 99-87-6

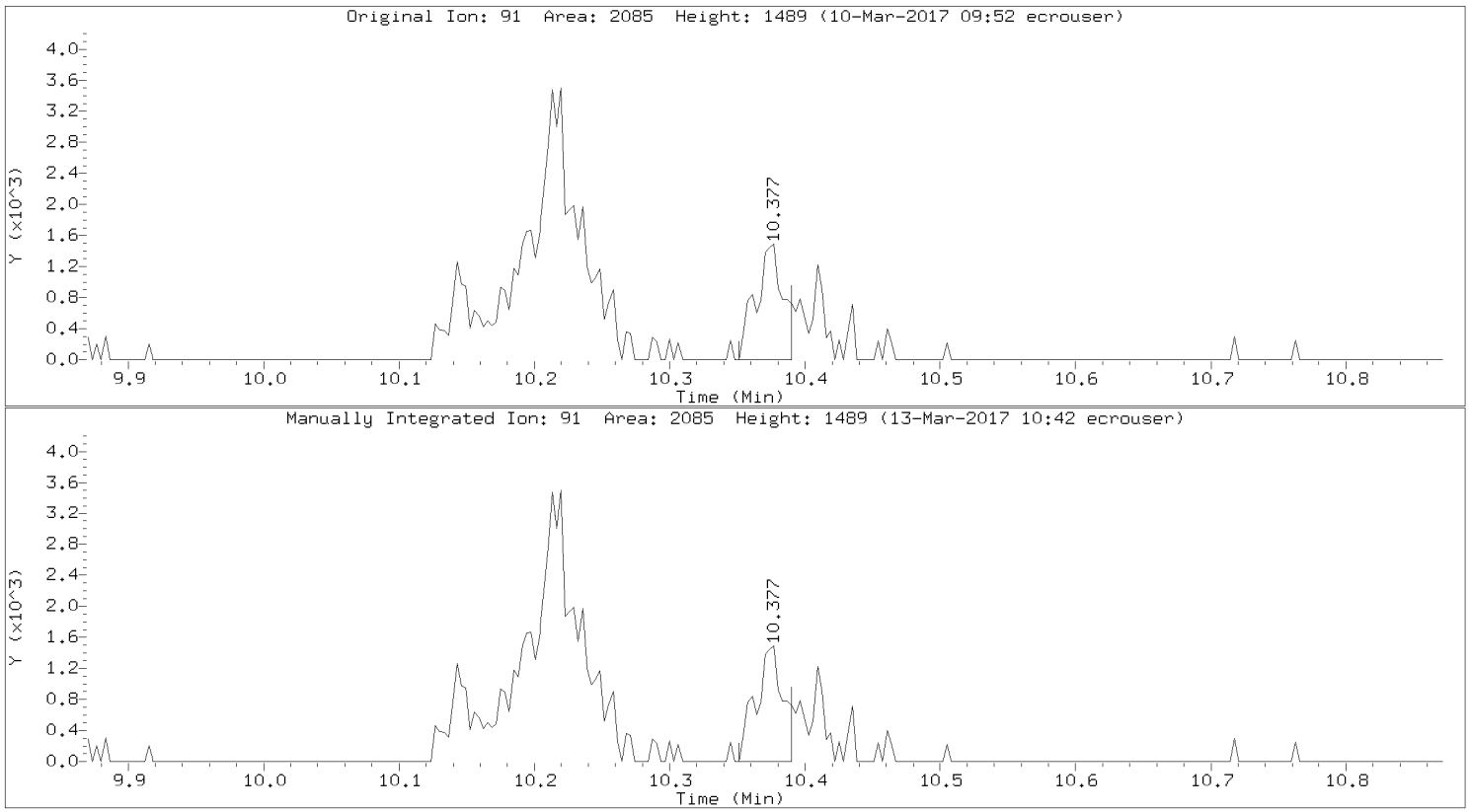






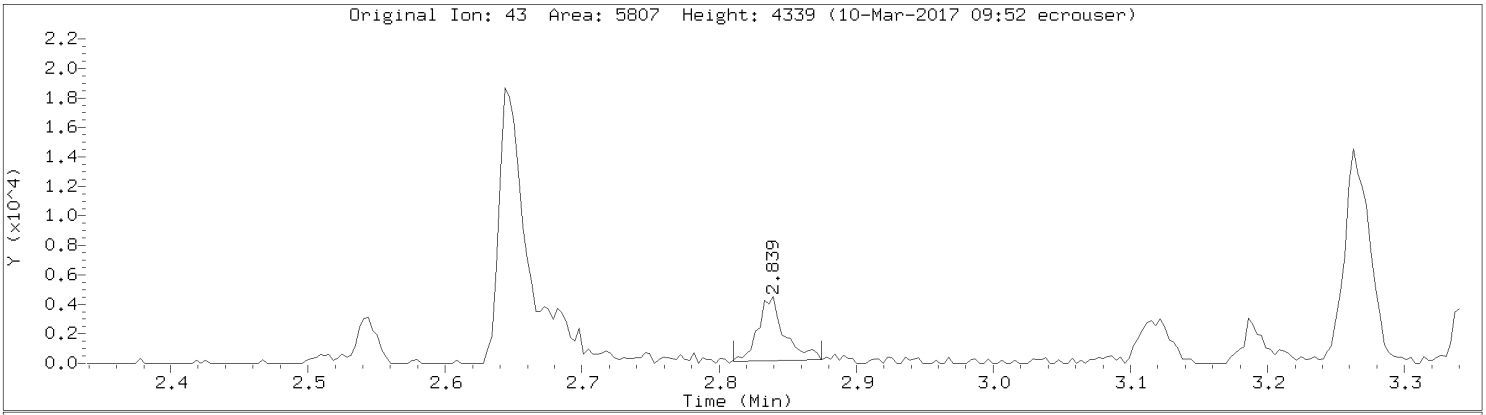


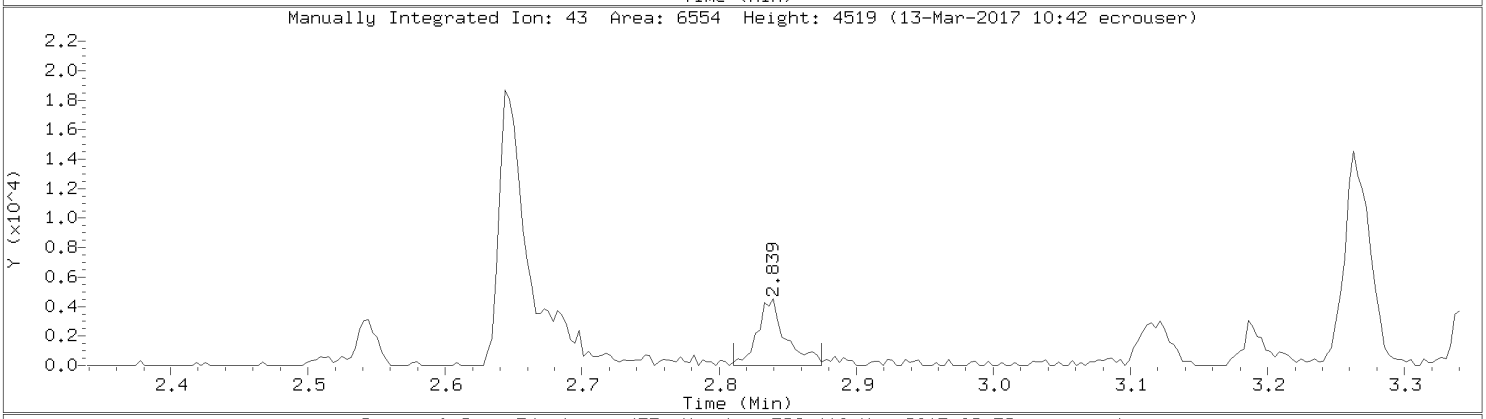
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

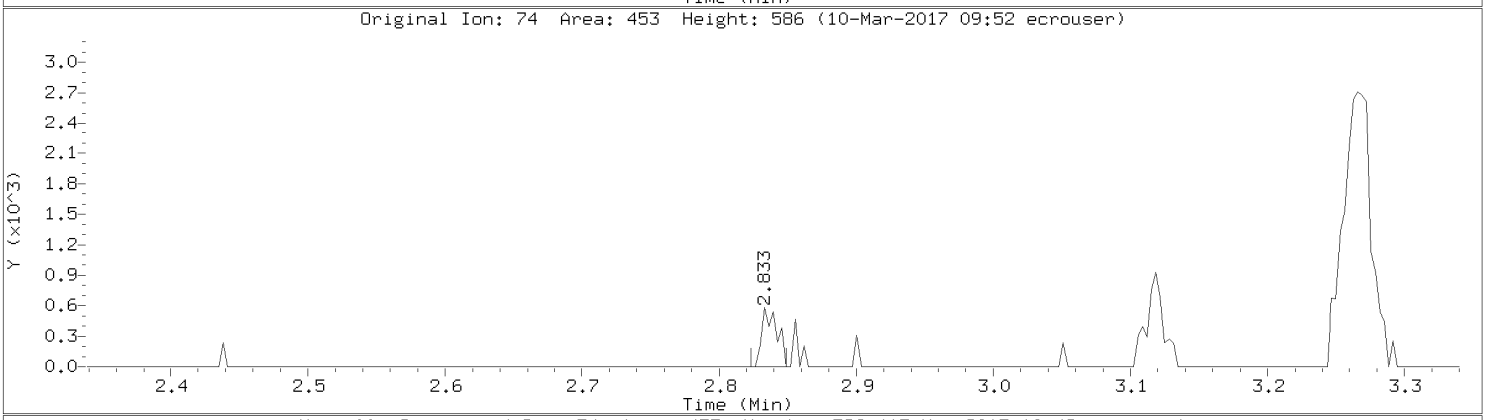


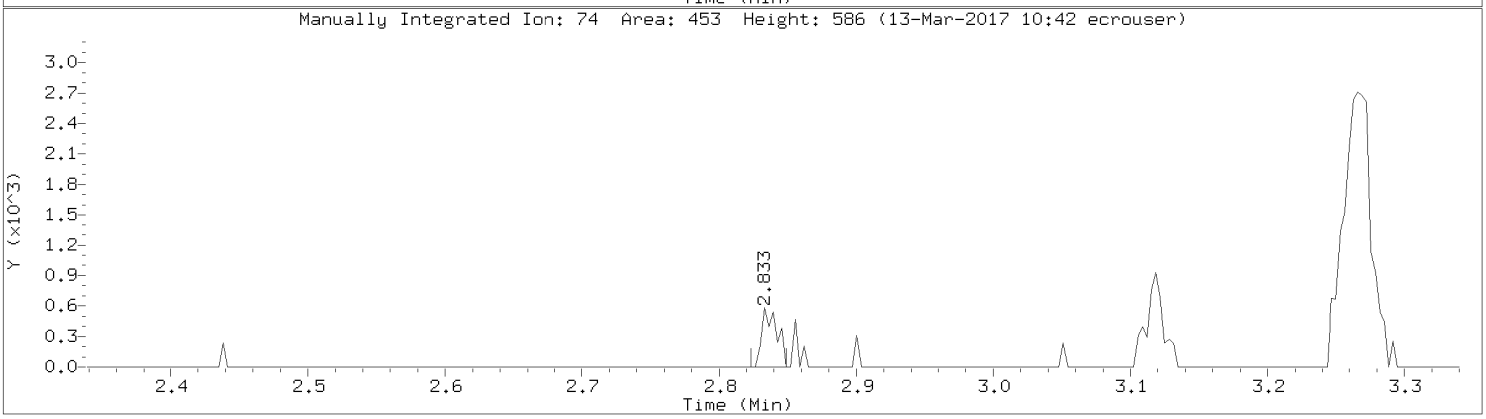
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Methyl Acetate
CAS Number: 79-20-9

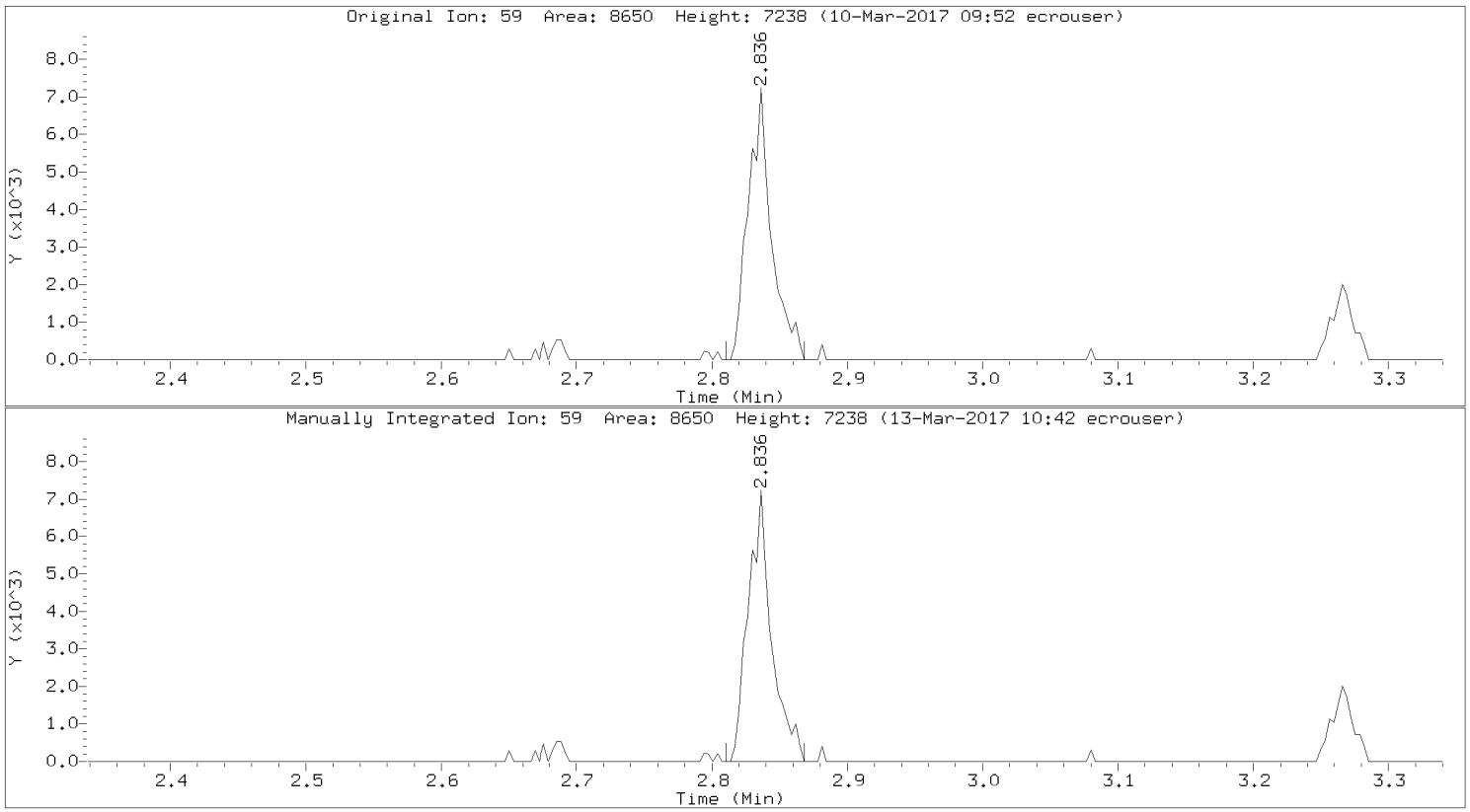






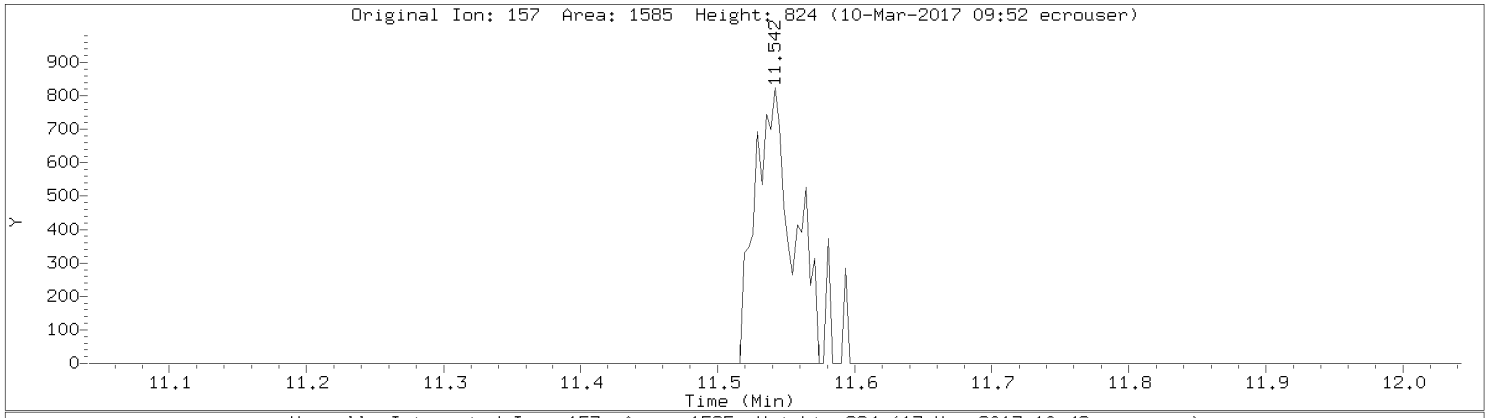


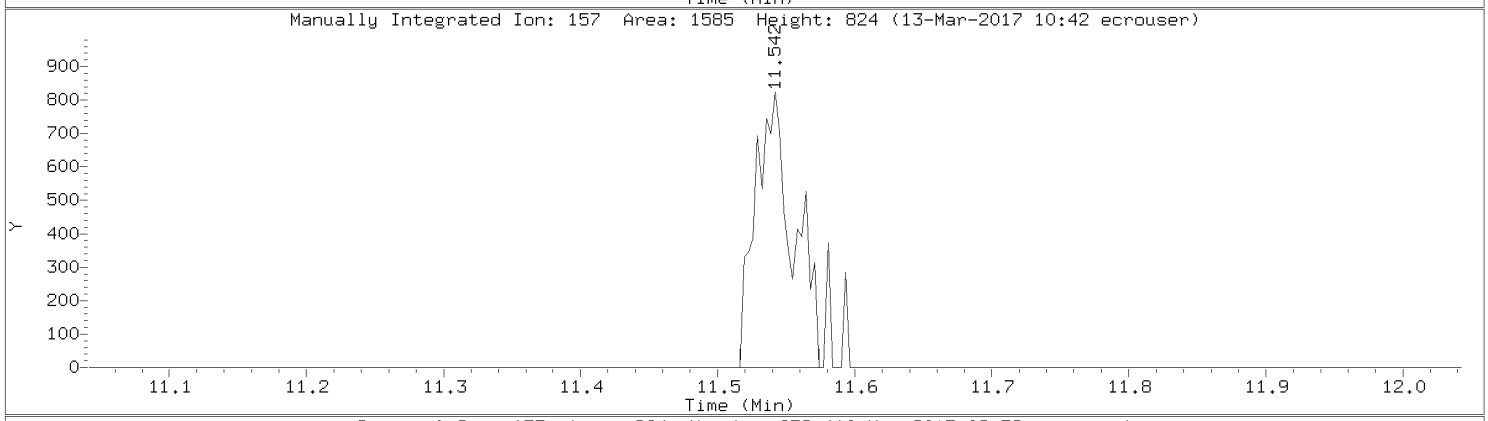
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

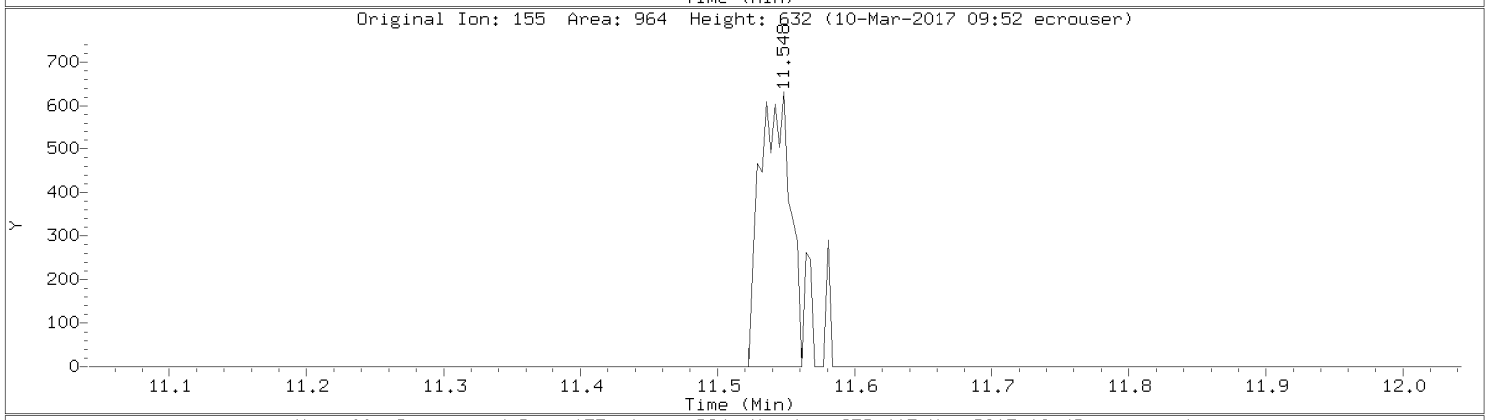


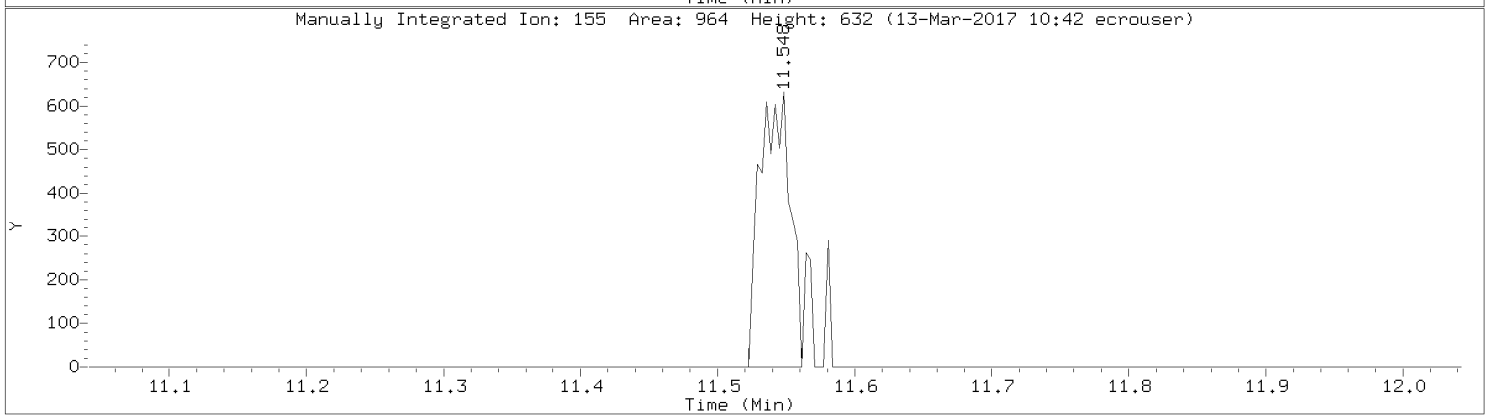
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

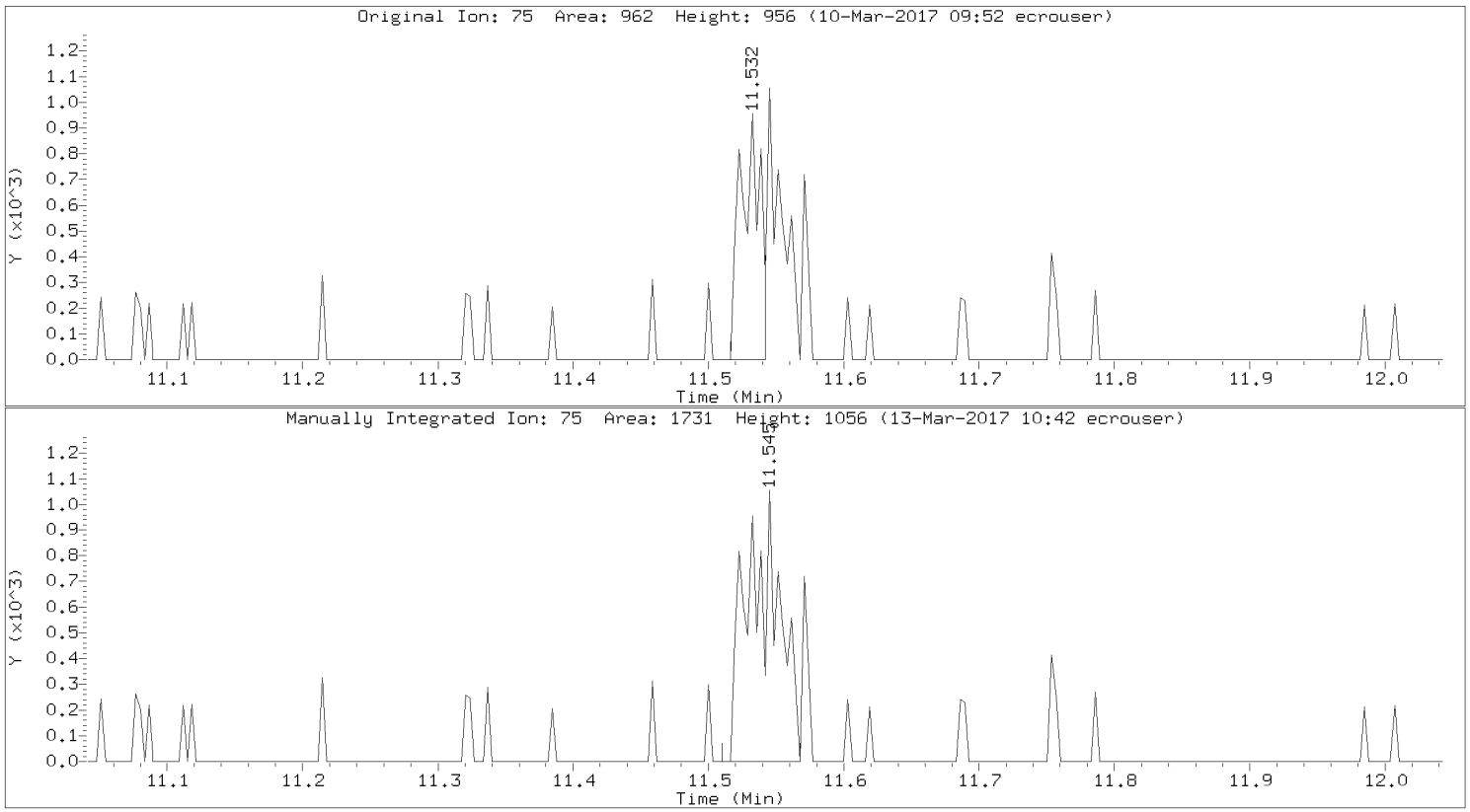






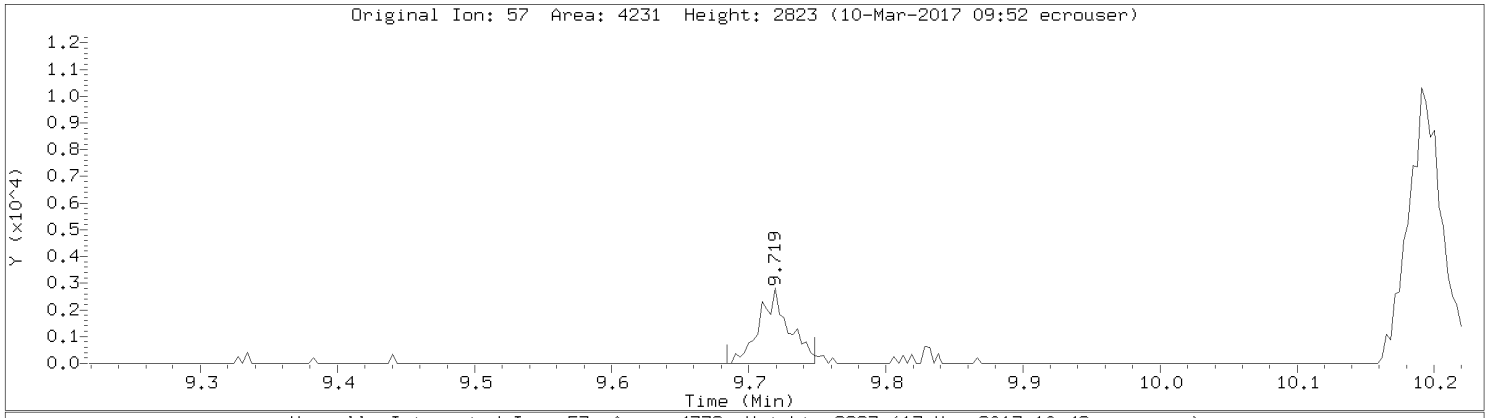


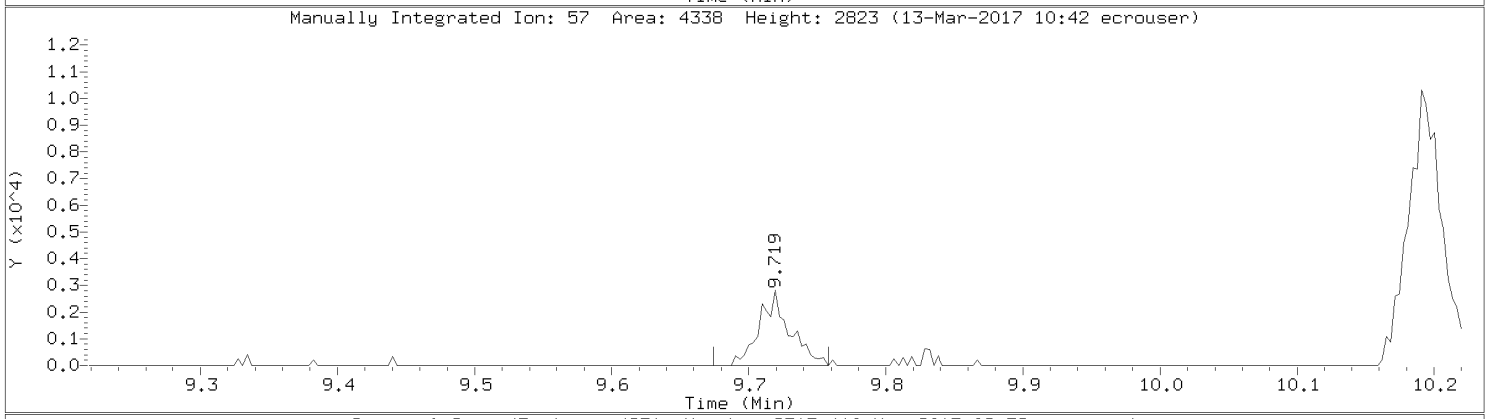
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

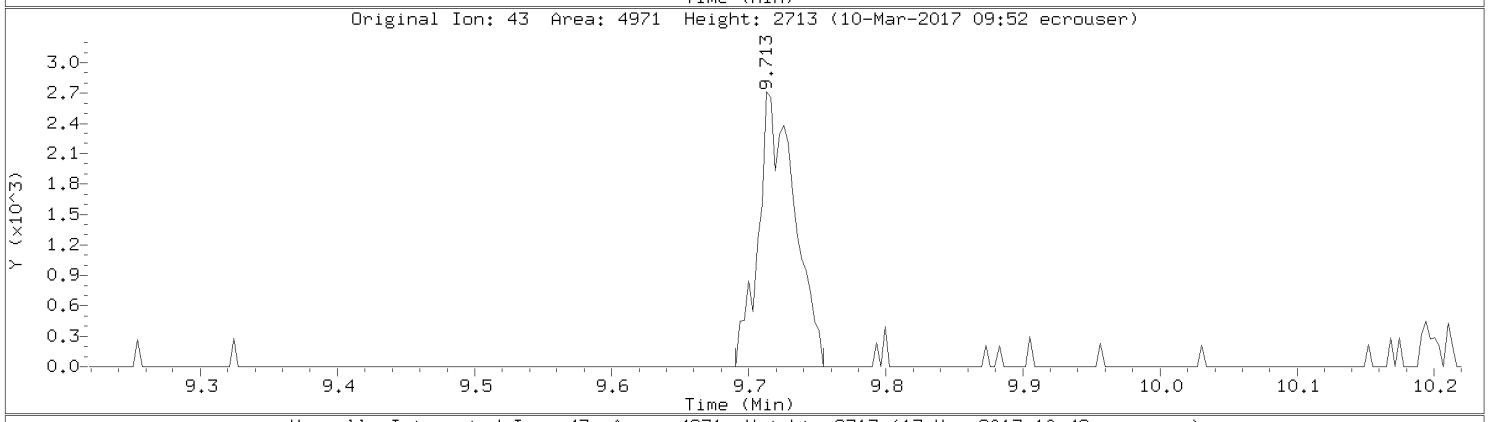


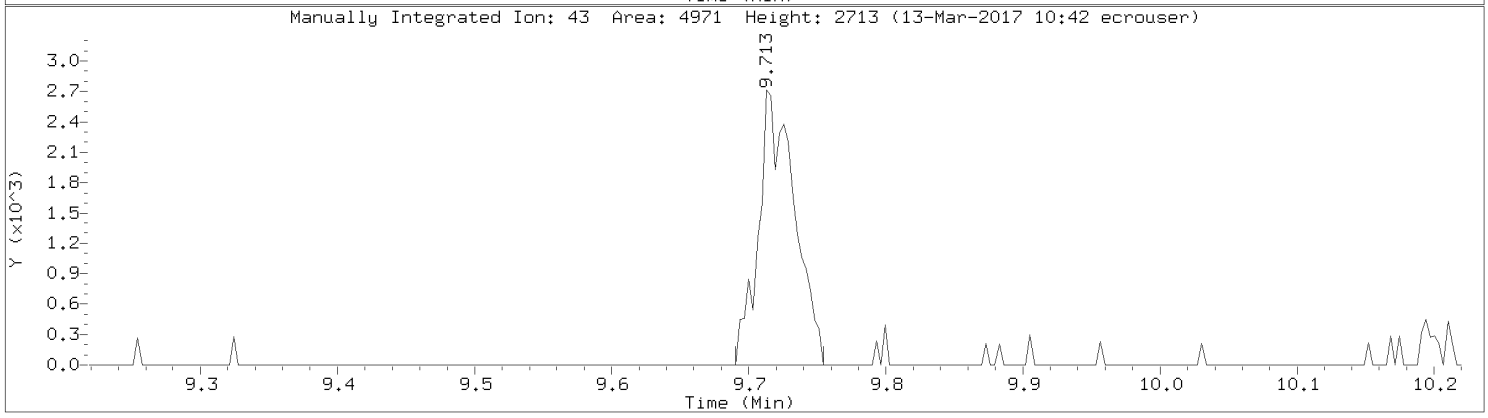
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: n-Decane
CAS Number: 124-18-5

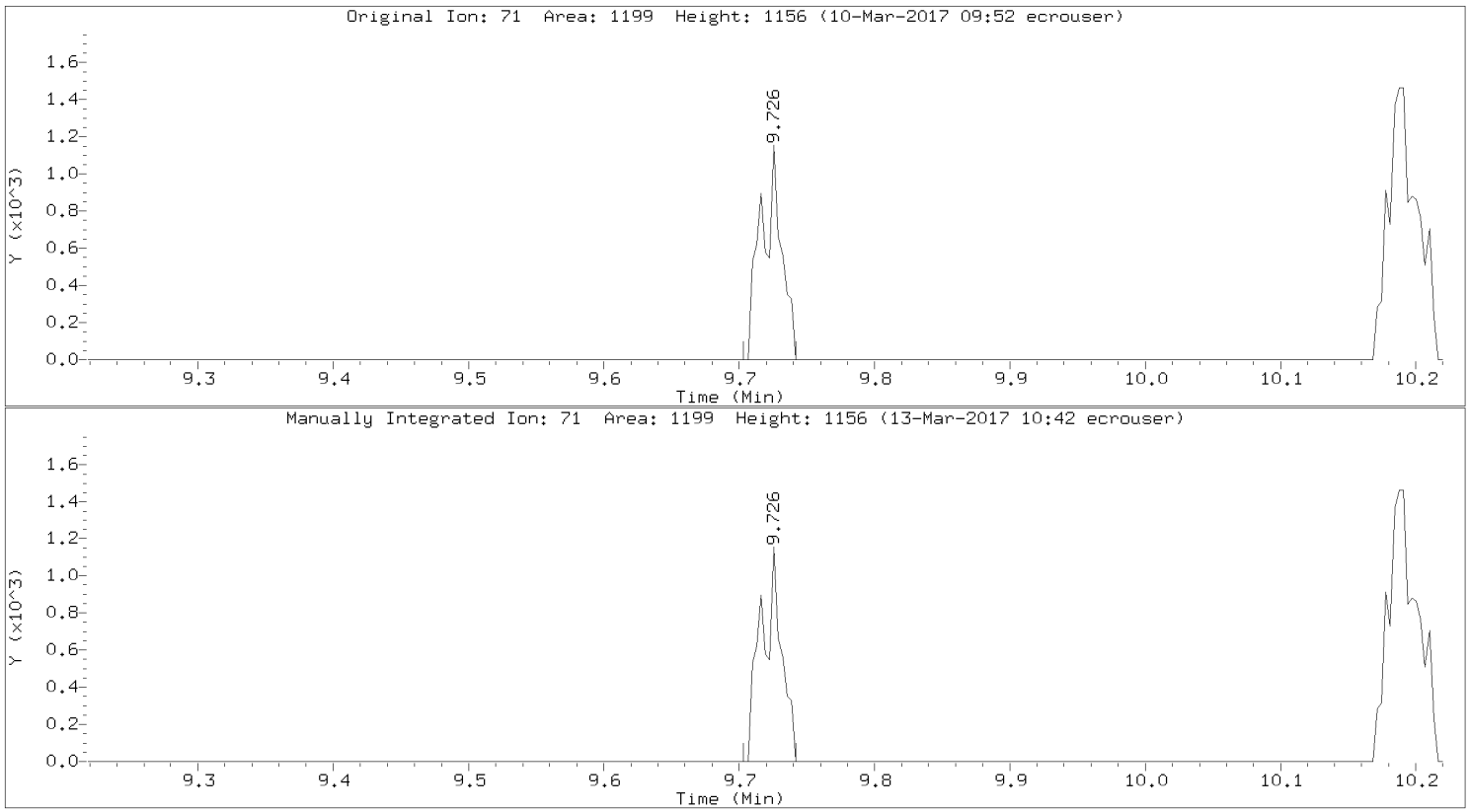








Data File: \\192.168.10.12\chem\10airD.i\030917.B/06824.d
Injection Date: 10-MAR-2017 09:35
Instrument: 10airD.i
Lab Sample ID: CAL1



Data File: \\192.168.10.12\chem\10airD.i\030917.B\06826.d
Report Date: 13-Mar-2017 10:47

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\030917.B\06826.d
Lab Smp Id: ICV Client Smp ID: BFB
Inj Date : 10-MAR-2017 11:47
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment   : Volatile Organic COMPOUNDS in Air
Method   : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 26 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.072	2.075	(0.487)	2686	0.41471	0.415(Q)
2	1,1-Difluoroethane	65	2.117	2.120	(0.498)	2882	0.15934	0.159(Q)
3	Chlorodifluoromethane	67	2.126	2.136	(0.500)	100830	11.2443	11.2(Q)
4	Propylene	41	2.133	2.136	(0.502)	252565	3.90693	3.91(R)
5	Dichlorodifluoromethane	85	2.152	2.155	(0.506)	910216	11.1462	11.1
6	Dichlorotetrafluoroethane	85	2.219	2.220	(0.522)	908087	10.9619	11.0
7	Chloromethane	50	2.219	2.223	(0.522)	401738	10.4898	10.5
8	Vinyl chloride	62	2.277	2.281	(0.536)	328888	11.0624	11.1
9	1,3-Butadiene	54	2.306	2.306	(0.543)	227428	11.0027	11.0(Q)
10	Bromomethane	94	2.412	2.412	(0.567)	333612	10.3949	10.4
11	Chloroethane	64	2.447	2.447	(0.576)	126436	11.2287	11.2(Q)
12	Ethanol	45	2.499	2.508	(0.588)	72481	12.7103	12.7
13	Vinyl Bromide	106	2.537	2.534	(0.597)	338460	11.2509	11.3
14	Isopentane	43	2.547	2.544	(0.599)	345733	9.71568	9.72
15	Freon 123	83	2.550	2.547	(0.600)	15483	0.20568	0.206
16	Trichlorofluoromethane	101	2.608	2.601	(0.614)	927172	10.8532	10.9
17	Acrolein	56	2.608	2.621	(0.614)	96257	10.6149	10.6(Q)
18	Acetone	43	2.640	2.643	(0.621)	576605	12.4594	12.5(M)
19	Isopropyl Alcohol	45	2.672	2.682	(0.629)	388658	13.4324	13.4(M)
20	1,1-Dichloroethene	61	2.794	2.791	(0.657)	563987	11.0852	11.1
21	Acrylonitrile	53	2.807	2.829	(0.660)	231804	12.7416	12.7(Q)
24	Tert Butyl Alcohol (TBA)	59	2.823	2.836	(0.664)	550620	13.9878	14.0
22	Freon 113	101	2.826	2.820	(0.665)	725653	10.8345	10.8

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06826.d
Report Date: 13-Mar-2017 10:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	23 Methyl Acetate	43	2.823	2.839	(0.664)	116129	1.64180	1.64(Q)
	25 Methylene chloride	49	2.868	2.865	(0.675)	466192	12.4067	12.4(M)
	26 Allyl Chloride	76	2.880	2.877	(0.678)	122946	15.2645	15.3(Q)
	27 Carbon Disulfide	76	2.964	2.967	(0.697)	899708	12.4761	12.5
	28 trans-1,2-dichloroethene	96	3.089	3.083	(0.727)	291917	12.0661	12.1(Q)
	29 Methyl Tert Butyl Ether	73	3.118	3.115	(0.734)	809213	12.7301	12.7
	30 Vinyl Acetate	43	3.192	3.185	(0.751)	945387	11.3302	11.3
	31 1,1-Dichloroethane	63	3.198	3.185	(0.752)	606611	11.0358	11.0
$	32 Hexane-d14(S)	66	3.272	3.266	(0.770)	1956681	9.92292	9.92
	33 Methyl Ethyl Ketone	72	3.336	3.346	(0.785)	129277	10.9469	10.9(Q)
	34 n-Hexane	57	3.352	3.343	(0.789)	457415	10.7128	10.7
	35 Di-isopropyl Ether	45	3.371	3.368	(0.793)	1118771	10.8075	10.8
	36 cis-1,2-Dichloroethene	96	3.468	3.452	(0.816)	314325	11.4700	11.5
	37 Ethyl Acetate	43	3.480	3.490	(0.819)	818017	11.9739	12.0(Q)
	38 Ethyl Tert-Butyl Ether	59	3.564	3.564	(0.838)	1043154	12.0860	12.1
	39 Chloroform	83	3.567	3.548	(0.839)	780559	11.2788	11.3
	40 Tetrahydrofuran	42	3.705	3.718	(0.872)	378672	10.9832	11.0
	41 1,1,1-Trichloroethane	97	3.901	3.895	(0.918)	764997	10.9887	11.0
	42 1,2-Dichloroethane	62	3.914	3.904	(0.921)	553219	10.9407	10.9
	43 Benzene	78	4.106	4.097	(0.966)	889746	10.8855	10.9
	45 Carbon tetrachloride	117	4.119	4.113	(0.969)	785664	11.9901	12.0
	44 Cyclohexane	56	4.122	4.119	(0.970)	429353	10.1749	10.2(Q)
	46 Tert Amyl Methyl Ether	73	4.241	4.241	(0.998)	948748	11.0289	11.0(Q)
*	47 1,4-Difluorobenzene	114	4.251	4.238	(1.000)	3714334	10.0000	
	48 2,2,4-Trimethylpentane	57	4.376	4.366	(1.029)	1540088	13.0533	13.1
	49 Heptane	43	4.491	4.479	(1.057)	658122	10.3141	10.3
	50 1,2-Dichloropropane	63	4.559	4.546	(1.072)	411566	10.9310	10.9
	51 Trichloroethene	130	4.572	4.565	(1.075)	481080	10.7224	10.7
	52 Methyl methacrylate	69	4.655	4.662	(1.095)	329439	11.1127	11.1
	53 Bromodichloromethane	83	4.665	4.655	(1.097)	897919	11.6221	11.6
	54 1,4-Dioxane	88	4.681	4.719	(1.101)	68115	11.0350	11.0
	55 Methylcyclohexane	98	4.963	4.947	(1.168)	181455	10.4869	10.5
	56 Methyl Isobutyl Ketone	43	5.095	5.101	(1.199)	1061317	12.4300	12.4
	57 cis-1,3-Dichloropropene	75	5.130	5.130	(1.207)	592799	11.6362	11.6(Q)
	58 trans-1,3-Dichloropropene	75	5.509	5.502	(1.296)	514946	10.6533	10.7
$	59 Toluene-d8 (S)	98	5.566	5.557	(1.309)	3686716	9.90564	9.91
	60 Toluene	91	5.637	5.627	(1.326)	1189045	10.8289	10.8
	61 1,1,2-Trichloroethane	97	5.643	5.634	(1.328)	464850	10.9338	10.9
	62 Methyl Butyl Ketone	43	5.881	5.897	(0.836)	1082682	14.8231	14.8
	63 n-Octane	43	6.054	6.048	(0.861)	40311	0.53076	0.531
	64 Dibromochloromethane	129	6.125	6.115	(0.871)	960137	12.7440	12.7
	65 1,2-Dibromoethane	107	6.336	6.340	(0.901)	769097	11.8075	11.8
	66 Tetrachloroethene	166	6.407	6.394	(0.911)	747243	11.0439	11.0
*	67 Chlorobenzene - d5	117	7.033	7.026	(1.000)	3060577	10.0000	
	68 Chlorobenzene	112	7.071	7.065	(1.005)	909176	11.0305	11.0(Q)
	69 Ethyl Benzene	91	7.315	7.312	(1.040)	1472563	10.9656	11.0
	70 m&p-Xylene	91	7.460	7.453	(1.061)	1262133	12.6997	12.7
	71 Bromoform	173	7.825	7.829	(1.113)	1006042	11.7085	11.7
	72 n-Nonane	43	7.857	7.858	(1.117)	55459	0.79139	0.791
	73 Styrene	104	7.867	7.874	(1.119)	820666	12.0476	12.0
	74 o-Xylene	91	7.931	7.925	(1.128)	1180373	10.6617	10.7
	75 1,1,2,2-Tetrachloroethane	83	8.194	8.191	(1.165)	908248	12.3470	12.3
	76 Isopropylbenzene	105	8.499	8.496	(1.208)	1525113	11.1273	11.1
	77 N-Propylbenzene	91	9.058	9.051	(1.288)	1807442	12.5382	12.5

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06826.d
Report Date: 13-Mar-2017 10:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
78	4-Ethyltoluene	105	9.228	9.228	(1.312)	1426274	12.0959	12.1
79	1,3,5-Trimethylbenzene	105	9.317	9.318	(1.325)	1246292	12.1735	12.2
80	n-Decane	57	9.722	9.719	(2.287)	67086	1.11134	1.11
81	Tert-Butyl Benzene	119	9.808	9.809	(1.395)	1242719	11.4399	11.4
82	1,2,4-Trimethylbenzene	105	9.828	9.825	(1.397)	1229825	12.3958	12.4
83	1,3-Dichlorobenzene	146	10.126	10.133	(1.440)	886516	12.3638	12.4(M)
84	Sec- Butylbenzene	105	10.155	10.146	(1.444)	1711853	12.6932	12.7
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.200	10.194	(1.450)	2063349	11.0035	11.0
86	Benzyl Chloride	91	10.222	10.219	(1.454)	863539	11.5618	11.6
87	1,4-Dichlorobenzene	146	10.238	10.235	(1.456)	855443	11.4261	11.4(Q)
88	p-Isopropyltoluene	119	10.376	10.370	(1.475)	1484139	12.3562	12.4
89	1,2,3-Trimethylbenzene	105	10.418	10.415	(1.481)	1212147	12.8977	12.9
90	1,2-Dichlorobenzene	146	10.707	10.704	(1.522)	805933	12.1325	12.1
91	N-Butylbenzene	91	10.970	10.970	(1.560)	1302718	13.2190	13.2
92	1,2-Dibromo-3-Chloropropane	157	11.532	11.541	(1.640)	54605	3.59844	3.60(Q)
93	1,2,4-Trichlorobenzene	180	12.838	12.851	(1.825)	258127	14.4488	14.4(R)
94	Naphthalene	128	12.956	12.966	(1.842)	527901	16.4600	16.5(R)
95	Hexachlorobutadiene	225	13.213	13.223	(1.879)	361049	13.5408	13.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06826.d
Report Date: 13-Mar-2017 10:47

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06826.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Client Smp ID: BFB
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3714334	-1.93
67 Chlorobenzene - d	3280875	1968525	4593225	3060577	-6.71

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	0.07
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06826.d
Report Date: 13-Mar-2017 10:47

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: 030917.B
Sample Matrix: Gas Fraction: VOA
Lab Smp Id: ICV Client Smp ID: BFB
Level: LOW Operator: EMC
Data Type: MS DATA SampleType: LCS
SpikeList File: 2016ICV.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Misc Info:

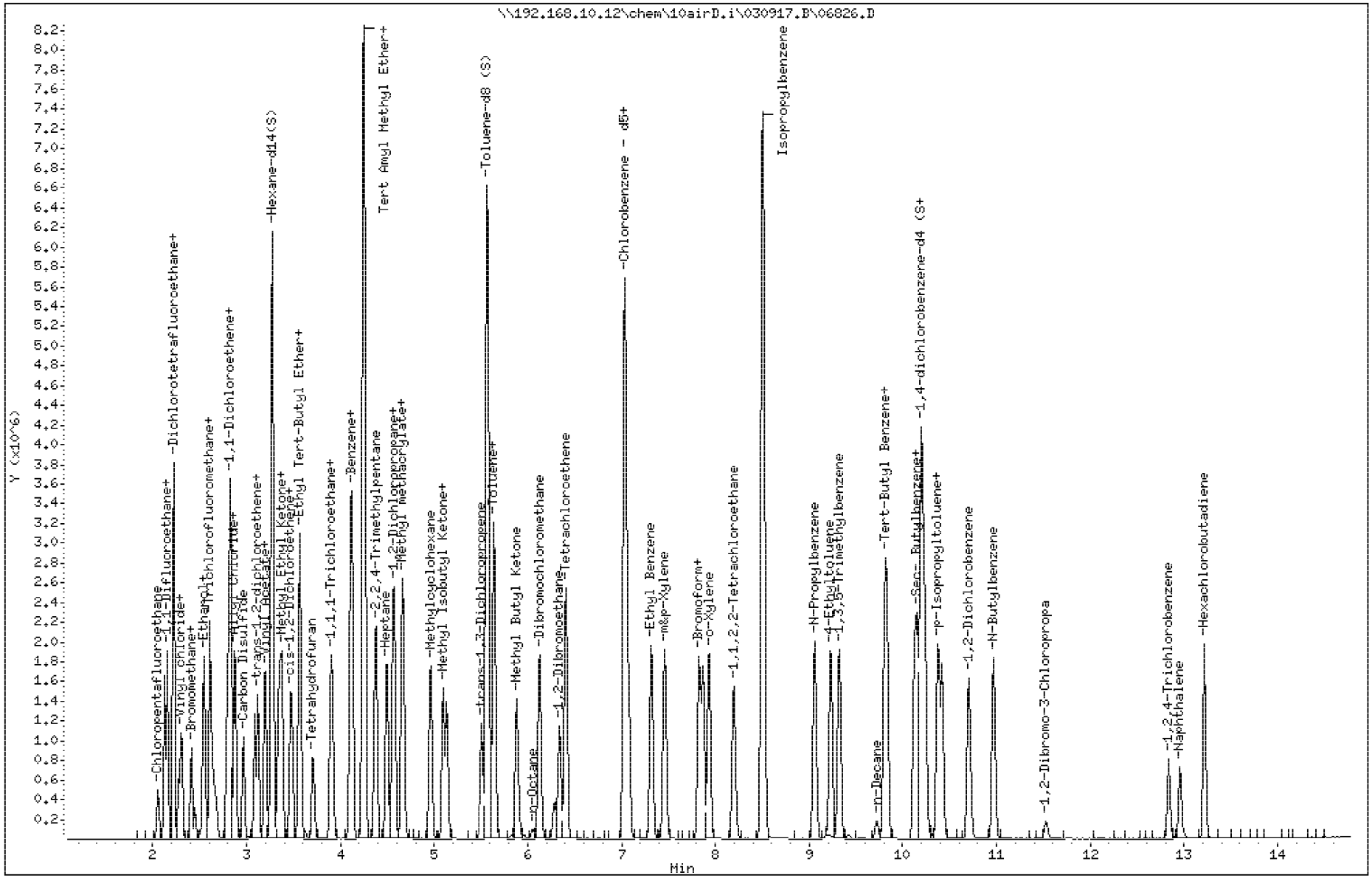
SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
3	Chlorodifluorometh	10.4	11.2	108.12	60-140
4	Propylene	10.8	3.91	36.18*	60-140
5	Dichlorodifluorome	10.0	11.1	111.46	60-140
6	Dichlorotetrafluor	9.80	11.0	111.86	60-140
7	Chloromethane	10.0	10.5	104.90	60-140
8	Vinyl chloride	10.2	11.1	108.45	60-140
9	1,3-Butadiene	10.3	11.0	106.82	60-140
10	Bromomethane	9.70	10.4	107.16	60-140
11	Chloroethane	9.70	11.2	115.76	60-140
12	Ethanol	10.6	12.7	119.91	60-140
13	Vinyl Bromide	10.6	11.3	106.14	60-140
14	Isopentane	10.3	9.72	94.33	60-140
17	Acrolein	9.60	10.6	110.57	60-140
16	Trichlorofluoromet	10.2	10.9	106.40	60-140
18	Acetone	10.3	12.5	120.96	60-140
19	Isopropyl Alcohol	10.3	13.4	130.41	60-140
21	Acrylonitrile	11.3	12.7	112.76	60-140
20	1,1-Dichloroethene	10.5	11.1	105.57	60-140
24	Tert Butyl Alcohol	11.0	14.0	127.16	60-140
22	Freon 113	10.5	10.8	103.19	60-140
25	Methylene chloride	11.0	12.4	112.79	60-140
26	Allyl Chloride	11.0	15.3	138.77	60-140
27	Carbon Disulfide	10.5	12.5	118.82	60-140
28	trans-1,2-dichloro	10.2	12.1	118.30	60-140
29	Methyl Tert Butyl	10.5	12.7	121.24	60-140
30	Vinyl Acetate	11.1	11.3	102.07	60-140
31	1,1-Dichloroethane	10.5	11.0	105.10	60-140
33	Methyl Ethyl Keton	10.7	10.9	102.31	60-140
34	n-Hexane	10.5	10.7	102.03	60-140
35	Di-isopropyl Ether	10.4	10.8	103.92	60-140
37	Ethyl Acetate	10.9	12.0	109.85	60-140
36	cis-1,2-Dichloroet	10.8	11.5	106.20	60-140
38	Ethyl Tert-Butyl E	10.3	12.1	117.34	60-140
39	Chloroform	10.4	11.3	108.45	60-140
40	Tetrahydrofuran	10.9	11.0	100.76	60-140
41	1,1,1-Trichloroeth	10.4	11.0	105.66	60-140
42	1,2-Dichloroethane	10.6	10.9	103.21	60-140
43	Benzene	10.6	10.9	102.69	60-140
45	Carbon tetrachlori	10.5	12.0	114.19	60-140
44	Cyclohexane	10.5	10.2	96.90	60-140

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06826.d
Report Date: 13-Mar-2017 10:47

	SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
46	Tert Amyl Methyl E	10.6	11.0	104.05	60-140
48	2,2,4-Trimethylpen	10.6	13.1	123.14	60-140
49	Heptane	10.6	10.3	97.30	60-140
50	1,2-Dichloropropan	10.7	10.9	102.16	60-140
51	Trichloroethene	10.5	10.7	102.12	60-140
54	1,4-Dioxane	10.5	11.0	105.10	60-140
53	Bromodichlorometha	10.5	11.6	110.69	60-140
55	Methylcyclohexane	10.5	10.5	99.87	60-140
56	Methyl Isobutyl Ke	10.5	12.4	118.38	60-140
57	cis-1,3-Dichloropr	11.2	11.6	103.89	60-140
58	trans-1,3-Dichloro	10.5	10.7	101.46	60-140
60	Toluene	10.7	10.8	101.20	60-140
61	1,1,2-Trichloroeth	10.6	10.9	103.15	60-140
62	Methyl Butyl Keton	10.8	14.8	137.25	60-140
64	Dibromochlorometha	11.2	12.7	113.79	60-140
65	1,2-Dibromoethane	10.6	11.8	111.39	60-140
66	Tetrachloroethene	10.5	11.0	105.18	60-140
68	Chlorobenzene	10.7	11.0	103.09	60-140
69	Ethyl Benzene	10.7	11.0	102.48	60-140
70	m&p-Xylene	10.7	12.7	118.69	60-140
71	Bromoform	10.8	11.7	108.41	60-140
73	Styrene	10.5	12.0	114.74	60-140
74	o-Xylene	10.6	10.7	100.58	60-140
75	1,1,2,2-Tetrachlor	10.6	12.3	116.48	60-140
76	Isopropylbenzene	10.2	11.1	109.09	60-140
77	N-Propylbenzene	10.0	12.5	125.38	60-140
78	4-Ethyltoluene	9.90	12.1	122.18	60-140
79	1,3,5-Trimethylben	10.3	12.2	118.19	60-140
81	Tert-Butyl Benzene	10.2	11.4	112.16	60-140
82	1,2,4-Trimethylben	10.2	12.4	121.53	60-140
83	1,3-Dichlorobenzen	10.4	12.4	118.88	60-140
84	Sec- Butylbenzene	10.3	12.7	123.24	60-140
86	Benzyl Chloride	10.4	11.6	111.17	60-140
87	1,4-Dichlorobenzen	10.1	11.4	113.13	60-140
88	p-Isopropyltoluene	10.1	12.4	122.34	60-140
89	1,2,3-Trimethylben	10.6	12.9	121.68	60-140
90	1,2-Dichlorobenzen	10.3	12.1	117.79	60-140
91	N-Butylbenzene	10.6	13.2	124.71	60-140
93	1,2,4-Trichloroben	9.80	14.4	147.44*	60-140
94	Naphthalene	10.5	16.5	156.76*	60-140
95	Hexachlorobutadien	10.0	13.5	135.41	60-140

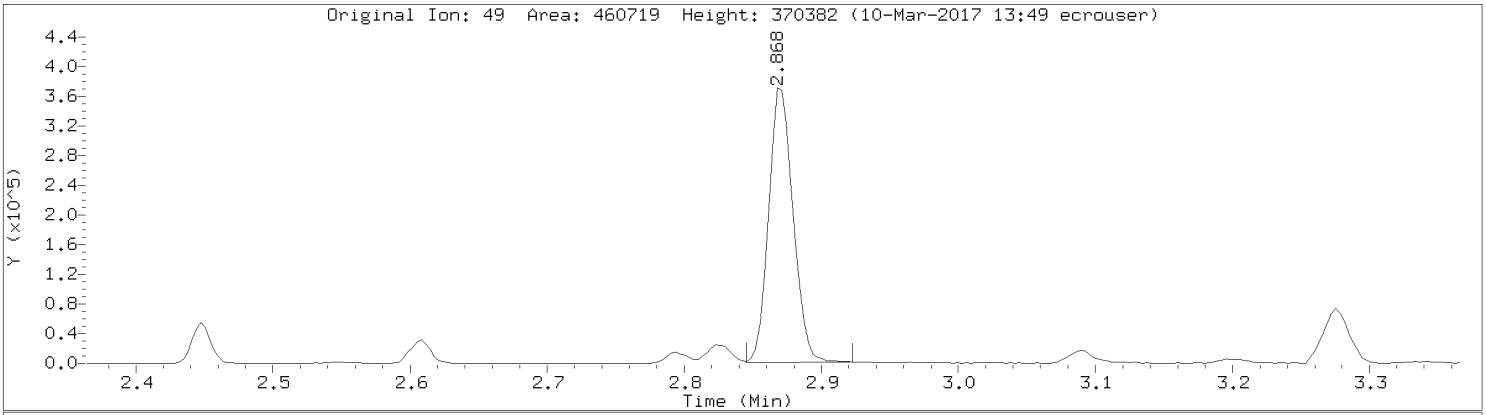
	SURROGATE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
$ 32	Hexane-d14(S)	10.0	9.92	99.23	70-130
$ 59	Toluene-d8 (S)	10.0	9.91	99.06	70-130
$ 85	1,4-dichlorobenzen	10.0	11.0	110.03	70-130

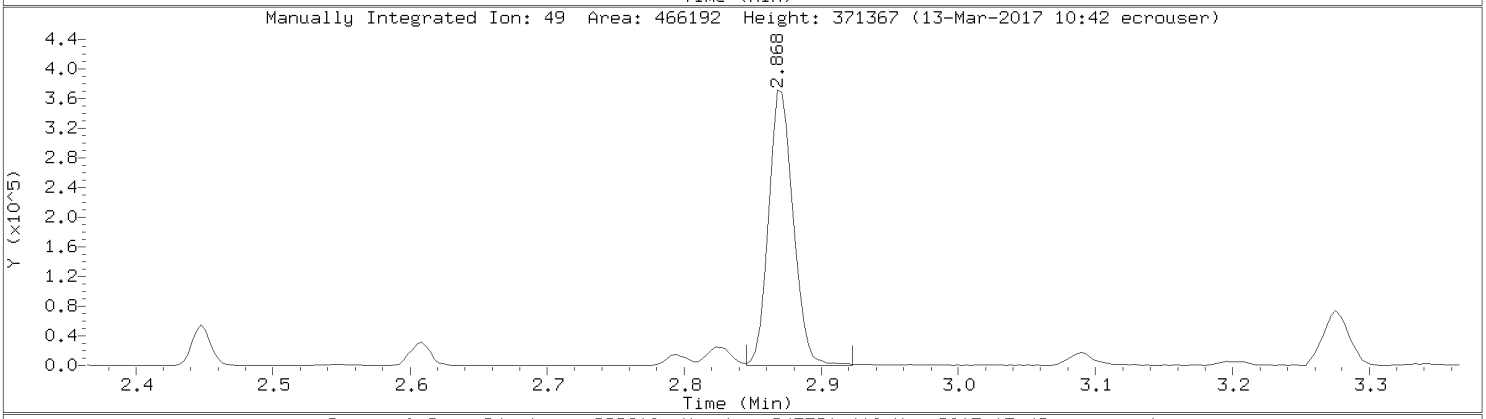
Data File: \\192.168.10.12\chem\10airD.i\030917.B\06826.D
Date : 10-MAR-2017 11:47
Client ID: BFB
Instrument: 10airD.i
Sample Info:
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

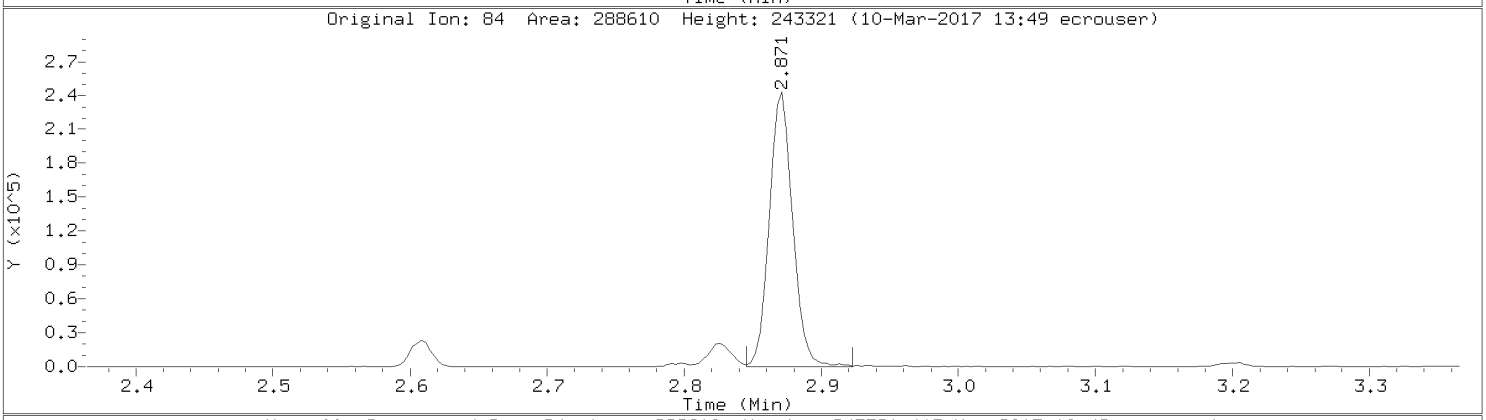


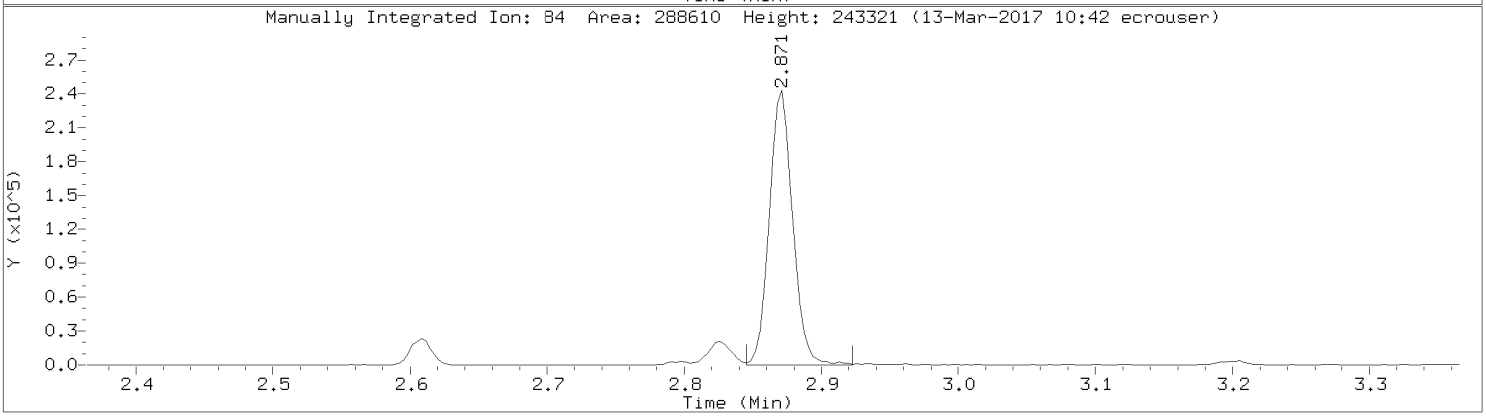
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06826.d
Injection Date: 10-MAR-2017 11:47
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: Methylene chloride
CAS Number: 75-09-2

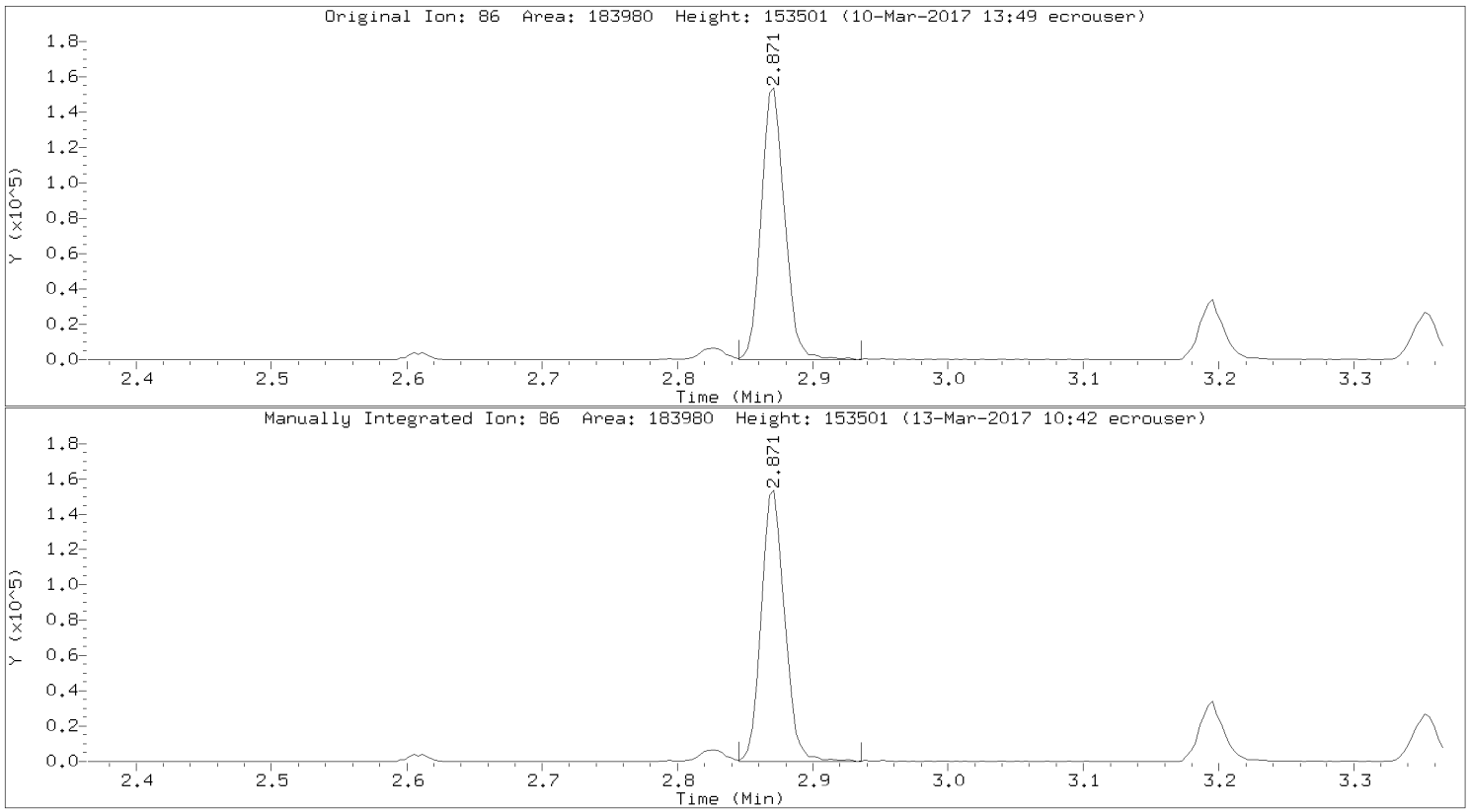






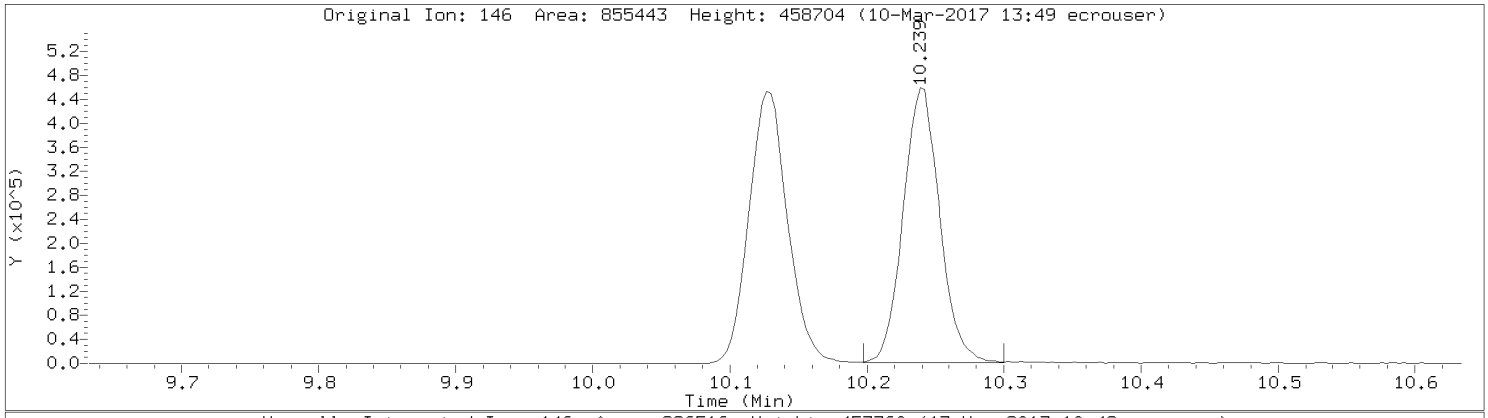


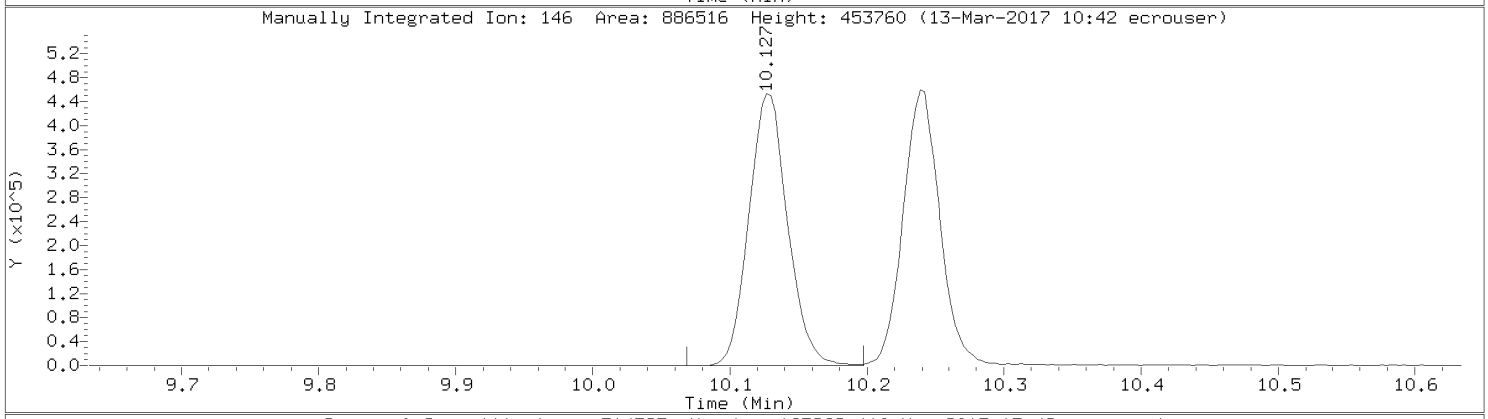
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06826.d
Injection Date: 10-MAR-2017 11:47
Instrument: 10airD.i
Lab Sample ID: ICV

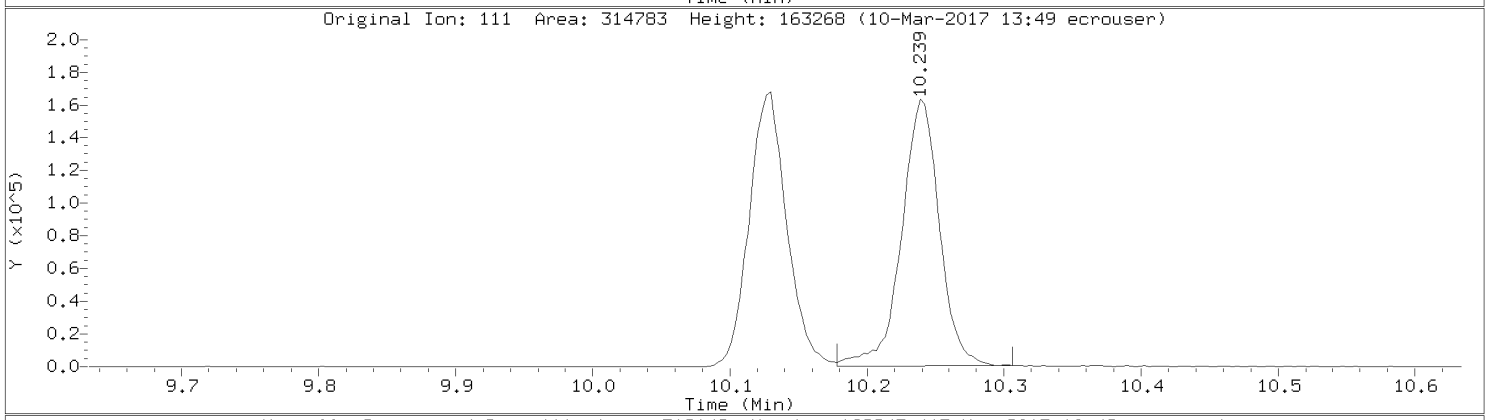


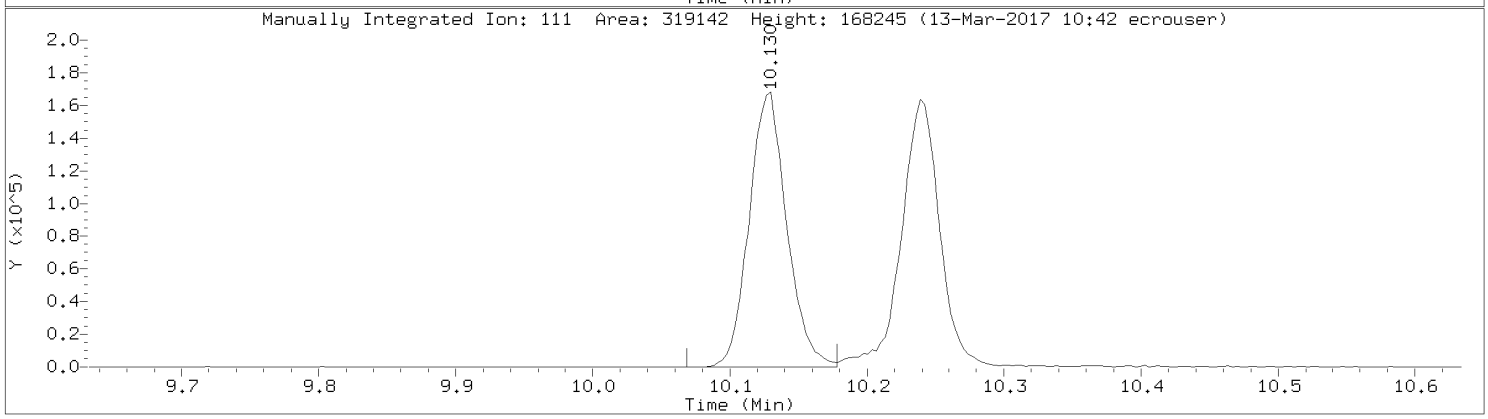
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06826.d
Injection Date: 10-MAR-2017 11:47
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

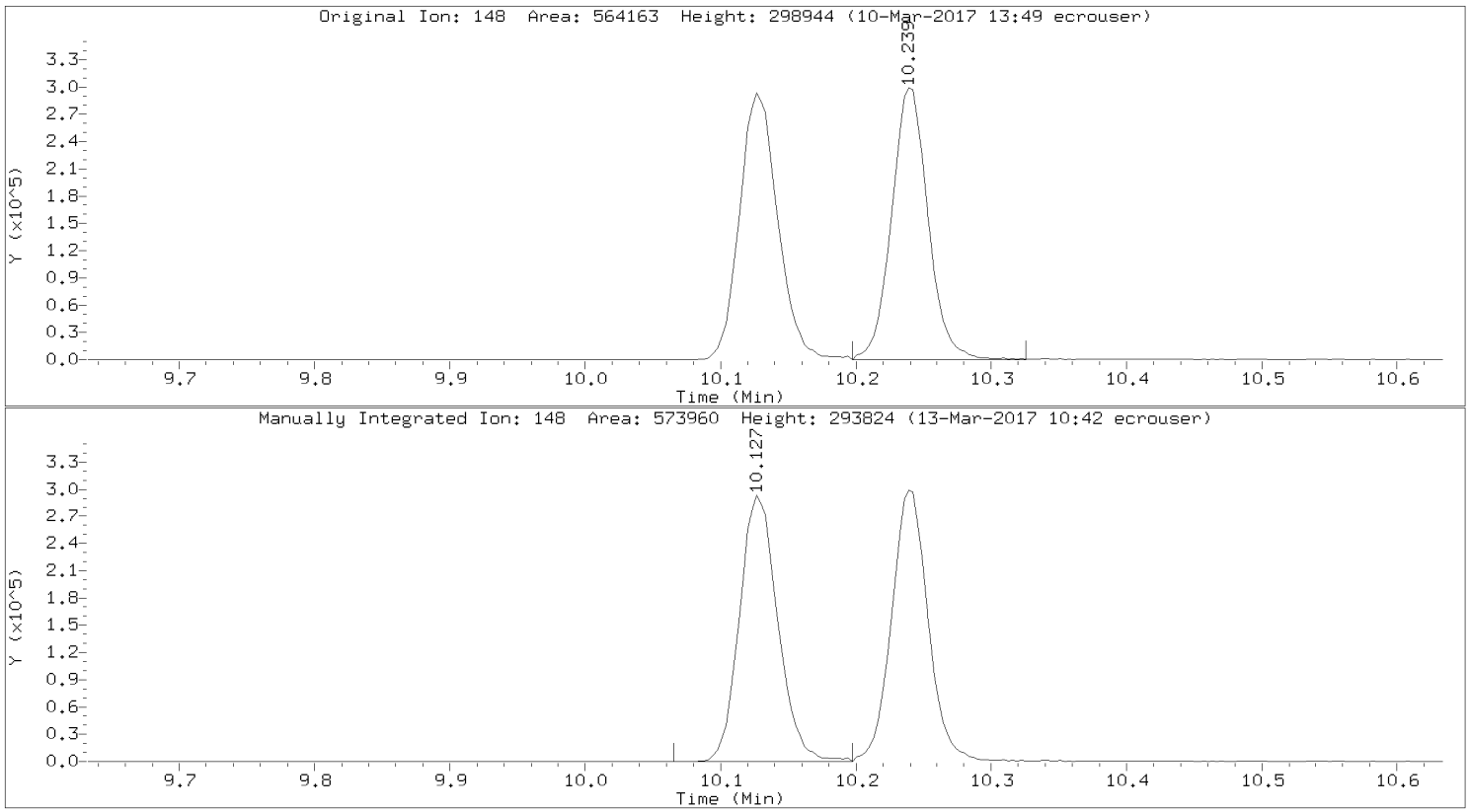






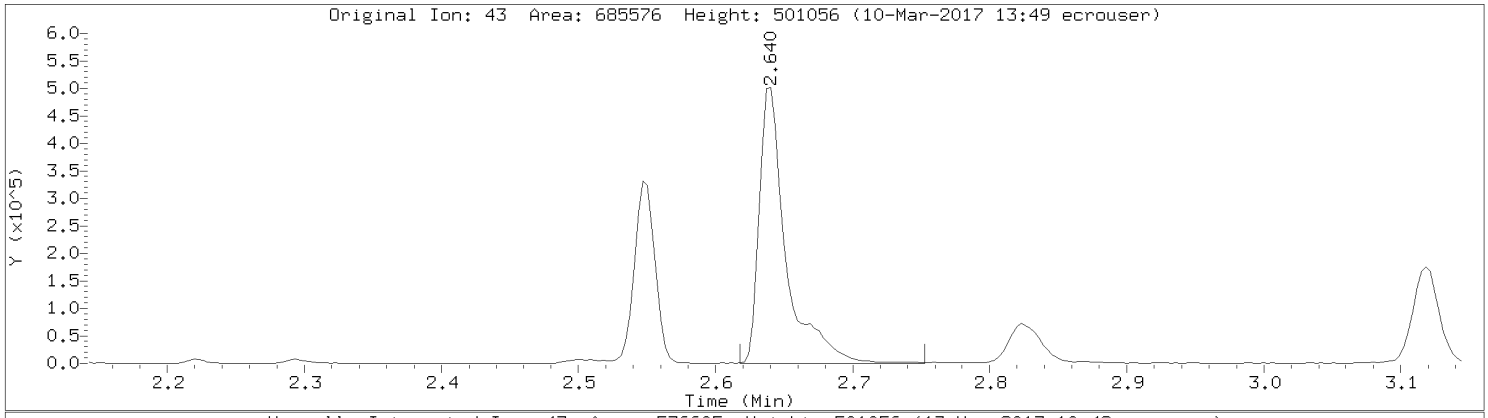


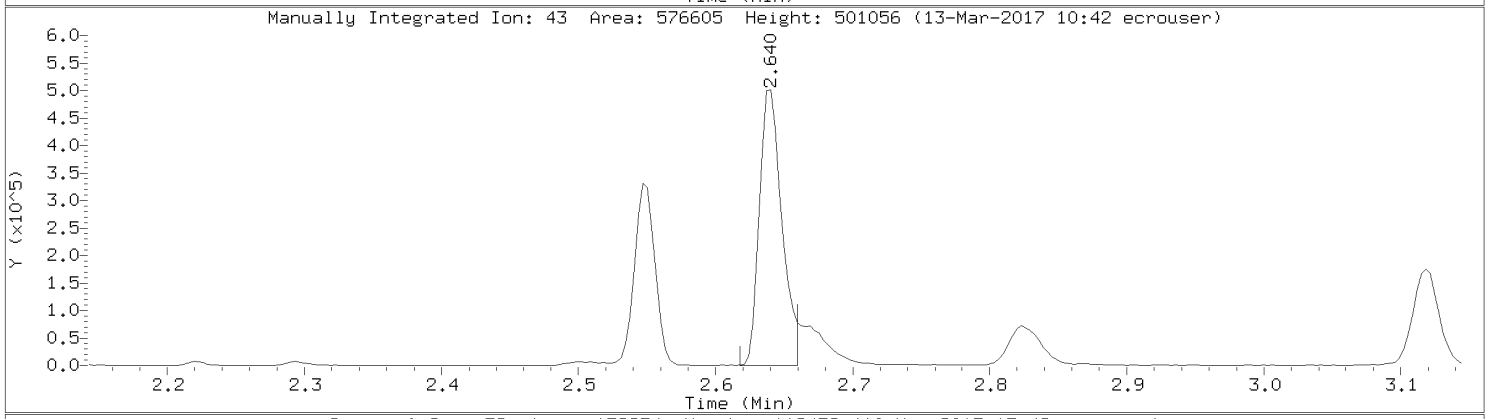
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06826.d
Injection Date: 10-MAR-2017 11:47
Instrument: 10airD.i
Lab Sample ID: ICV

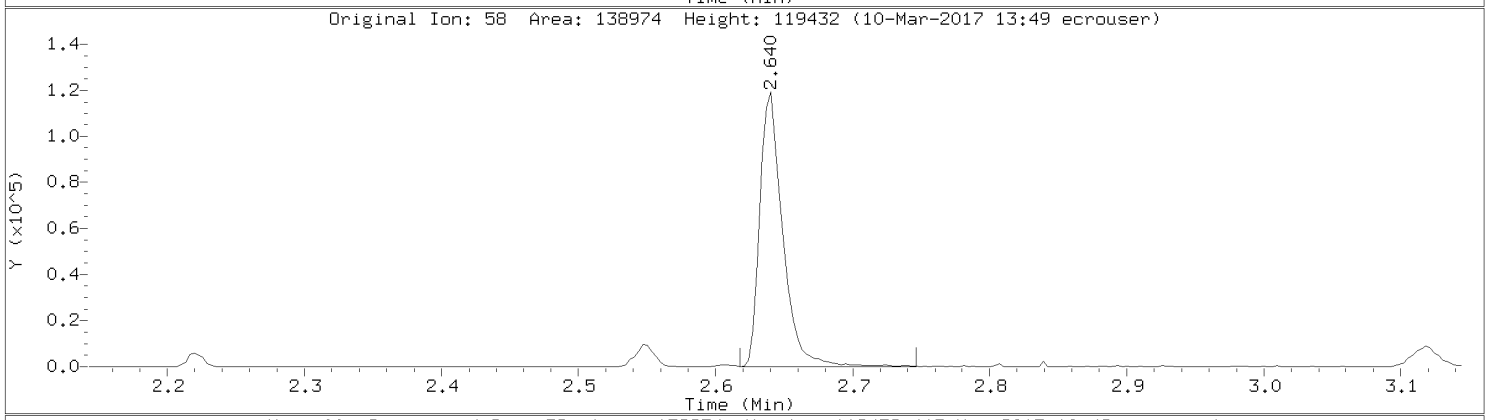


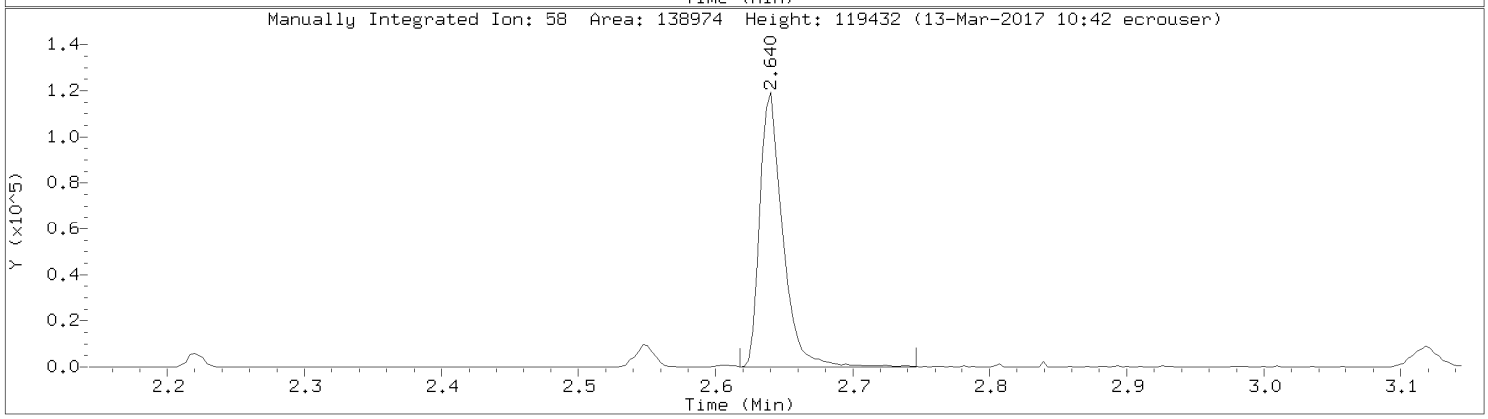
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06826.d
Injection Date: 10-MAR-2017 11:47
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: Acetone
CAS Number: 67-64-1



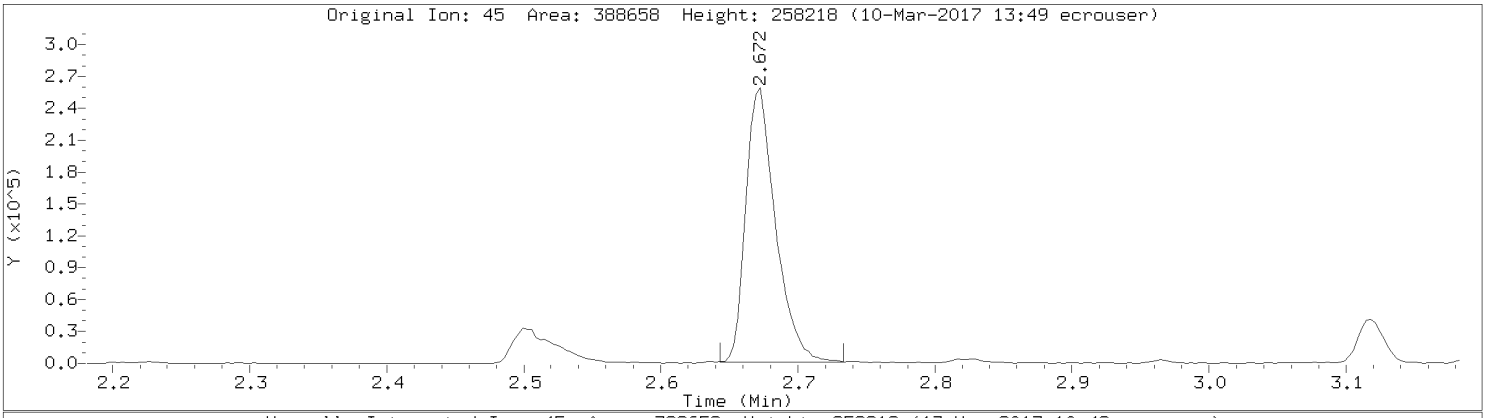


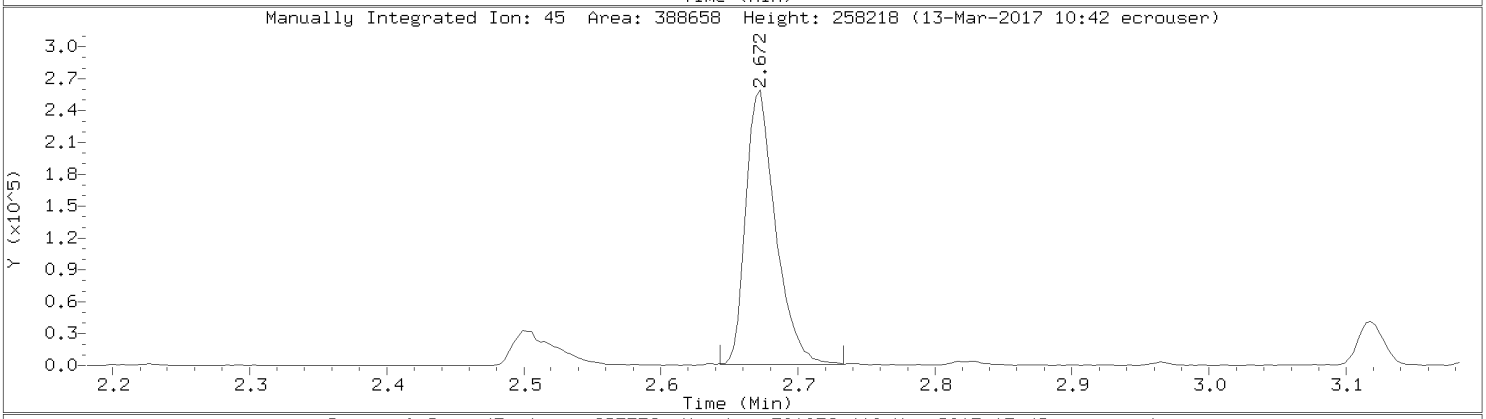


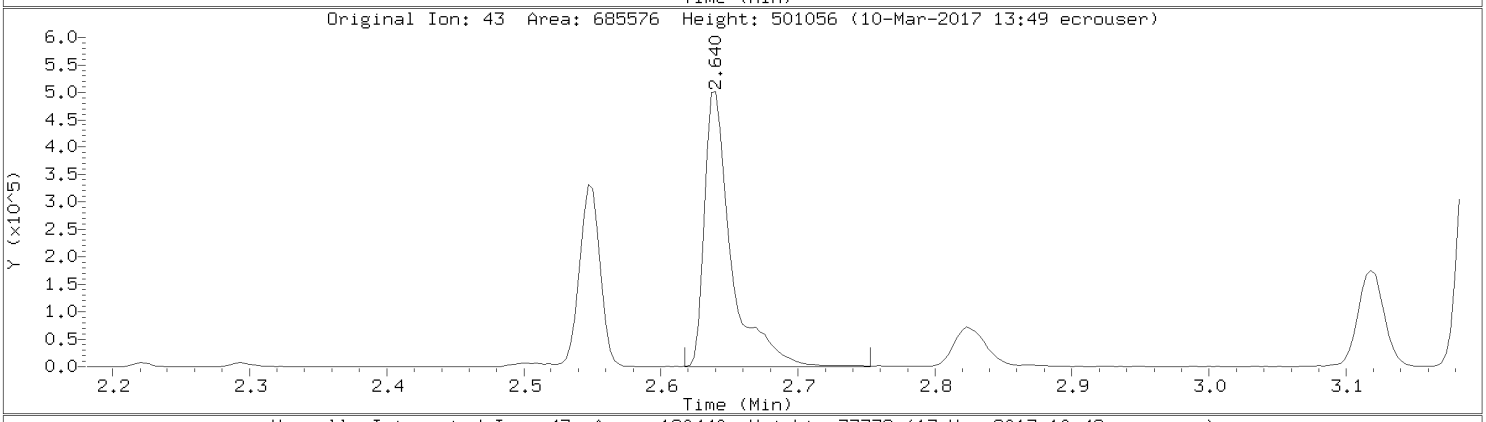


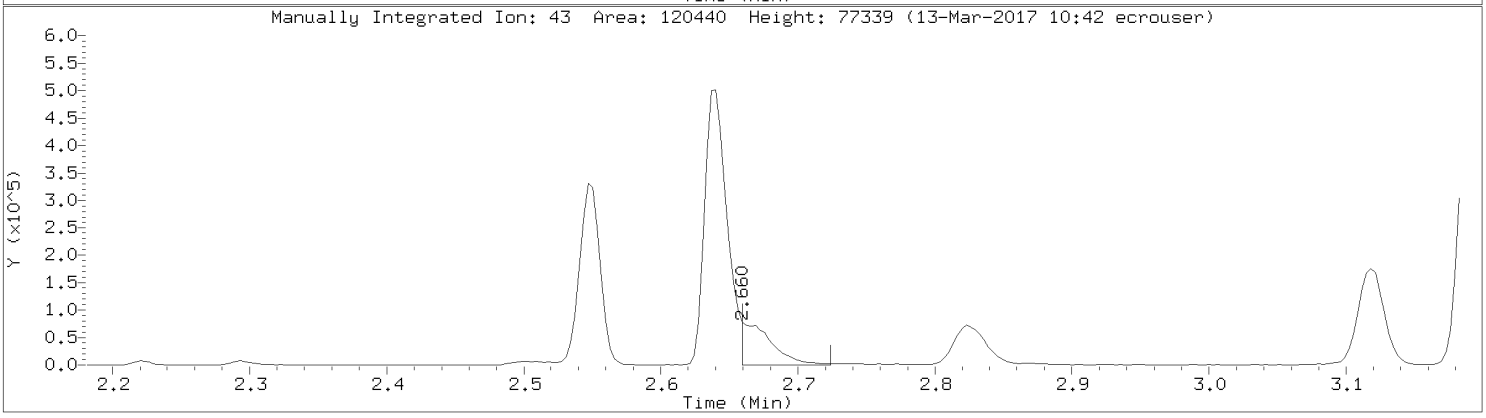
Data File: \\192.168.10.12\chem\10airD.i\030917.B/06826.d
Injection Date: 10-MAR-2017 11:47
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airD.i\031317.b\07205.d
Level 02: all \\192.168.10.12\chem\10airD.i\031317.b\07206.d
Level 03: all \\192.168.10.12\chem\10airD.i\031317.b\07207.d
Level 04: all \\192.168.10.12\chem\10airD.i\031317.b\07208.d
Level 05: all \\192.168.10.12\chem\10airD.i\031317.b\07209.d
Level 06: all \\192.168.10.12\chem\10airD.i\031317.b\07210.d
Level 07: all \\192.168.10.12\chem\10airD.i\031317.b\07211.d

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 1,1-Difluoroethane	0.04117	0.05253	0.05471	0.05253	0.05166	0.05099	0.05009	AVRG		0.05053		8.65293
3 Chlorodifluoromethane	0.02101	0.02709	0.02929	0.02907	0.02855	0.02746	0.02658	AVRG		0.02701		10.49180
4 Propylene	0.13956	0.15848	0.17330	0.17425	0.21436	0.19092	0.16666	AVRG		0.17393		13.67929

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Dichlorodifluoromethane	0.23862	0.27290	0.27013	0.28281	0.26418	0.22918	0.19418	AVRG		0.25028		12.51291
6 Dichlorotetrafluoroethane	0.23555	0.25151	0.26842	0.27992	0.25253	0.22680	0.19582	AVRG		0.24436		11.45814
7 Chloromethane	0.10261	0.11440	0.11592	0.11676	0.10880	0.10415	0.09805	AVRG		0.10867		6.72813
8 Vinyl chloride	0.07979	0.07732	0.08223	0.08924	0.08571	0.08339	0.08220	AVRG		0.08284		4.67552
9 1,3-Butadiene	0.04571	0.05245	0.05728	0.06215	0.05804	0.05799	0.05797	AVRG		0.05594		9.51174
10 Bromomethane	0.08948	0.09321	0.09625	0.09967	0.09598	0.09226	0.09186	AVRG		0.09410		3.62273
11 Chloroethane	0.03210	0.02769	0.03371	0.03673	0.03350	0.03290	0.03260	AVRG		0.03275		8.21322

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.02489	0.02195	0.02087	0.02197	0.02306	0.02317						
	0.02102							AVRG		0.02242		6.26491
13 Vinyl Bromide	0.07996	0.08722	0.08562	0.09179	0.09137	0.09005						
	0.08759							AVRG		0.08766		4.65993
14 Isopentane	0.10394	0.09507	0.10541	0.10645	0.09397	0.09022						
	0.09093							AVRG		0.09800		7.17664
15 Freon 123	0.20018	0.22206	0.22755	0.24054	0.22443	0.22018						
	0.21325							AVRG		0.22117		5.63465
16 Trichlorofluoromethane	0.24312	0.25429	0.27684	0.28962	0.26903	0.24738						
	0.21804							AVRG		0.25690		9.28386
17 Acrolein	864	1583	4599	12779	182332	382883						
	589652							QUAD	-0.00118	0.02556	0.00002	0.99994
18 Acetone	19240	39882	102087	231236	1796583	3033893						
	3829989							QUAD	0.00313	0.14006	-0.00384	0.99984

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	0.13503	0.11684	0.11833	0.11879	0.10867	0.09803					
	0.08153						AVRG		0.11103		15.46071
20 1,1-Dichloroethene	0.12711	0.14713	0.15193	0.16338	0.15395	0.14904					
	0.14170						AVRG		0.14775		7.64221
21 Acrylonitrile	2666	5447	17290	40859	418890	851232					
	1269703						QUAD	-0.00111	0.05988	-0.00063	0.99998
24 Tert Butyl Alcohol (TBA)	0.15149	0.15917	0.15958	0.16681	0.15673	0.14565					
	0.12637						AVRG		0.15225		8.67851
22 Freon 113	0.15798	0.20946	0.20641	0.21818	0.20243	0.19440					
	0.18146						AVRG		0.19576		10.38946
23 Methyl Acetate	0.20683	0.20046	0.21090	0.21844	0.22963	0.21530					
	0.19919						AVRG		0.21154		5.05826
25 Methylene chloride	0.10310	0.10572	0.11053	0.11501	0.10072	0.08526					
	0.07316						AVRG		0.09907		14.91860

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Allyl Chloride	+++++	2528	6267	13039	204575	401774	608566	QUAD	-0.00140	0.02888	-0.00032	0.99983
27 Carbon Disulfide	0.20018	0.19379	0.21446	0.22578	0.21602	0.21072	0.19842	AVRG		0.20848		5.47970
28 trans-1,2-dichloroethene	0.05325	0.06235	0.07365	0.07702	0.07559	0.07813	0.07730	AVRG		0.07104		13.41296
29 Methyl Tert Butyl Ether	0.18166	0.19496	0.21266	0.22309	0.20239	0.17503	0.14678	AVRG		0.19094		13.42402
30 Vinyl Acetate	+++++	6679	16963	37067	707062	1441821	2052527	QUAD	-0.00897	0.27281	-0.01567	0.99965
31 1,1-Dichloroethane	0.13519	0.14948	0.16007	0.17349	0.15997	0.16027	0.15367	AVRG		0.15602		7.57209
33 Methyl Ethyl Ketone	+++++	0.03111	0.03297	0.03765	0.03412	0.03540	0.03398	AVRG		0.03420		6.46785

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
34 n-Hexane	0.10336	0.10901	0.11802	0.12696	0.11995	0.12194					
	0.11536						AVRG		0.11637		6.86771
35 Di-isopropyl Ether	0.26537	0.28681	0.30597	0.31391	0.30065	0.28920					
	0.26745						AVRG		0.28991		6.40059
36 cis-1,2-Dichloroethene	0.05922	0.07389	0.07888	0.08392	0.08679	0.08780					
	0.08770						AVRG		0.07974		13.06751
37 Ethyl Acetate	0.17742	0.18499	0.19185	0.19654	0.20727	0.20485					
	0.19416						AVRG		0.19387		5.41319
38 Ethyl Tert-Butyl Ether	0.22830	0.24615	0.26126	0.28062	0.24832	0.20671					
	0.17171						AVRG		0.23472		15.48137
39 Chloroform	0.17933	0.19664	0.22450	0.22620	0.21820	0.20617					
	0.19363						AVRG		0.20638		8.50857
40 Tetrahydrofuran	0.08429	0.09067	0.09707	0.10503	0.09634	0.09659					
	0.09664						AVRG		0.09523		6.70869

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
41 1,1,1-Trichloroethane	0.17657	0.20563	0.21862	0.23317	0.22025	0.21514					
	0.20877						AVRG		0.21116		8.36335
42 1,2-Dichloroethane	0.12953	0.15254	0.14828	0.16111	0.15436	0.15317					
	0.15004						AVRG		0.14986		6.56512
43 Benzene	0.21860	0.22665	0.25402	0.24326	0.24294	0.23355					
	0.22622						AVRG		0.23503		5.24259
45 Carbon tetrachloride	0.19028	0.17620	0.19742	0.20132	0.22759	0.21725					
	0.21075						AVRG		0.20297		8.48966
44 Cyclohexane	0.11459	0.11515	0.12753	0.13848	0.11419	0.11126					
	0.11148						AVRG		0.11895		8.58711
46 Tert Amyl Methyl Ether	+++++	55888	80740	116973	743003	1446208					
	2157269						QUAD	0.01526	0.24418	-0.00531	0.99999
48 2,2,4-Trimethylpentane	29221	63594	163716	341712	2491601	3936779					
	4948614						QUAD	0.01193	0.37912	-0.02242	0.99891

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
49 Heptane	0.15610	0.18387	0.19088	0.19847	0.17116	0.16905							
	0.16525							AVRG		0.17640		8.56682	
50 1,2-Dichloropropane	0.09811	0.10977	0.10823	0.11255	0.10800	0.10600							
	0.10545							AVRG		0.10687		4.24196	
51 Trichloroethene	0.12008	0.14202	0.14141	0.14860	0.13656	0.13457							
	0.13207							AVRG		0.13648		6.64951	
52 Methyl methacrylate	0.06802	0.07227	0.07658	0.08777	0.08870	0.08862							
	0.08911							AVRG		0.08158		11.08731	
53 Bromodichloromethane	0.19134	0.22028	0.22575	0.23712	0.25330	0.24503							
	0.23049							AVRG		0.22904		8.76858	
54 1,4-Dioxane	1204	1175	3857	8154	70596	165559							
	214543							QUAD	-0.00044	0.03053	-0.00226	0.99459	<-
55 Methylcyclohexane	0.03708	0.04456	0.05061	0.05453	0.04929	0.04916							
	0.04832							AVRG		0.04765		11.58527	

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
56 Methyl Isobutyl Ketone	0.20303	0.21563	0.23946	0.25539	0.23998	0.20461					
	0.17318						AVRG		0.21875		12.86926
57 cis-1,3-Dichloropropene	0.12540	0.13470	0.14251	0.15006	0.15835	0.15888					
	0.15616						AVRG		0.14658		8.80720
58 trans-1,3-Dichloropropene	0.10971	0.10781	0.11117	0.12052	0.14679	0.15012					
	0.14863						AVRG		0.12782		15.47968
60 Toluene	0.28921	0.32534	0.32605	0.33639	0.32931	0.30856					
	0.28556						AVRG		0.31434		6.44336
61 1,1,2-Trichloroethane	0.11162	0.12879	0.12518	0.12867	0.12782	0.12425					
	0.12228						AVRG		0.12409		4.84741
62 Methyl Butyl Ketone	+++++	27468	79867	172373	1672188	3059905					
	4075929						QUAD	-0.00624	0.35504	-0.01451	0.99996
63 n-Octane	0.25940	0.29339	0.31744	0.32632	0.29362	0.28654					
	0.27871						AVRG		0.29363		7.71707

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
64 Dibromochloromethane	+++++	10425	28960	62995	795255	1618903	2360022	QUAD	-0.00741	0.40348	-0.01512	0.99982
65 1,2-Dibromoethane	0.22711	0.24920	0.26416	0.28428	0.28861	0.29427	0.28686	AVRG		0.27064		9.20896
66 Tetrachloroethene	0.26282	0.28580	0.31181	0.32846	0.29246	0.29024	0.28030	AVRG		0.29313		7.29456
68 Chlorobenzene	0.30699	0.33962	0.35558	0.36927	0.35188	0.34635	0.33102	AVRG		0.34296		5.81944
69 Ethyl Benzene	0.56727	0.52241	0.54861	0.59566	0.56452	0.53783	0.48852	AVRG		0.54640		6.33741
70 m&p-Xylene	0.44694	0.43080	0.44688	0.46146	0.41037	0.37820	0.32455	AVRG		0.41417		11.66157
71 Bromoform	4143	7709	19660	42132	841179	1714399	2484927	QUAD	-0.01115	0.43201	-0.01787	0.99964

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
72 n-Nonane	0.20866	0.24637	0.28263	0.30609	0.29152	0.28875						
	0.27516							AVRG		0.27131		12.23605
73 Styrene	0.21721	0.26596	0.27984	0.29484	0.31263	0.31862						
	0.30635							AVRG		0.28507		12.34524
74 o-Xylene	0.49067	0.43530	0.44527	0.46411	0.43828	0.44054						
	0.40765							AVRG		0.44597		5.78888
75 1,1,2,2-Tetrachloroethane	0.29071	0.29012	0.29045	0.31004	0.31370	0.32351						
	0.31258							AVRG		0.30444		4.52029
76 Isopropylbenzene	0.58166	0.58042	0.58800	0.58934	0.58029	0.55411						
	0.49718							AVRG		0.56729		5.82539
77 N-Propylbenzene	0.54558	0.53803	0.59253	0.64086	0.65578	0.63180						
	0.56003							AVRG		0.59494		8.13924
78 4-Ethyltoluene	0.39409	0.40757	0.47403	0.53720	0.52366	0.53207						
	0.48559							AVRG		0.47917		12.22205

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	0.58397	0.49479	0.46268	0.48023	0.45401	0.45635					
	0.42071						AVRG		0.47896		10.80526
80 n-Decane	0.11725	0.13649	0.16156	0.17228	0.17944	0.18189					
	0.17539						AVRG		0.16061		15.30373
81 Tert-Butyl Benzene	0.42314	0.41233	0.44327	0.48529	0.45625	0.46958					
	0.43818						AVRG		0.44686		5.72296
82 1,2,4-Trimethylbenzene	+++++	25671	51743	103246	924491	1904070					
	2714429						QUAD	-0.00009	0.47243	-0.02082	0.99946
83 1,3-Dichlorobenzene	0.32166	0.30012	0.28653	0.30491	0.31441	0.32791					
	0.31396						AVRG		0.30993		4.49791
84 Sec- Butylbenzene	0.49225	0.49486	0.56016	0.61595	0.60600	0.59952					
	0.53587						AVRG		0.55780		9.31276
86 Benzyl Chloride	0.29446	0.29436	0.28808	0.30841	0.32951	0.35401					
	0.33360						AVRG		0.31463		7.88567

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
87 1,4-Dichlorobenzene	0.34890	0.30915	0.31007	0.31553	0.30360	0.32334					
	0.30403						AVRG		0.31638		5.02211
88 p-Isopropyltoluene	0.43790	0.46880	0.52031	0.54829	0.55179	0.54185					
	0.50213						AVRG		0.51015		8.50340
89 1,2,3-Trimethylbenzene	0.35200	0.35984	0.40756	0.39943	0.41870	0.43498					
	0.40601						AVRG		0.39693		7.63992
90 1,2-Dichlorobenzene	0.28826	0.27622	0.28436	0.30036	0.29027	0.30310					
	0.28926						AVRG		0.29026		3.15679
91 N-Butylbenzene	0.39368	0.36695	0.43352	0.46130	0.46576	0.46945					
	0.42787						AVRG		0.43122		9.03890
92 1,2-Dibromo-3-Chloropropane	1558	3129	6824	14034	216697	429268					
	605012						QUAD	-0.00216	0.11293	-0.00699	0.99970
93 1,2,4-Trichlorobenzene	+++++	0.12153	0.10789	0.11832	0.11412	0.09998					
	0.08611						AVRG		0.10799		12.21818

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	+++++	0.23884	0.21119	0.21616	0.20437	0.17185					
	+++++						AVRG		0.20848		11.61725
95 Hexachlorobutadiene	+++++	0.14882	0.16532	0.16652	0.13552	0.11766					
	+++++						AVRG		0.14677		14.09696
$ 32 Hexane-d14(S)	0.46845	0.46014	0.45485	0.45839	0.45417	0.45689					
	0.45950						AVRG		0.45891		1.03758
$ 59 Toluene-d8 (S)	0.95617	0.94745	0.94685	0.94193	0.95967	0.94897					
	0.94212						AVRG		0.94902		0.70630
$ 85 1,4-dichlorobenzene-d4 (S)	0.50270	0.50945	0.49588	0.49420	0.55714	0.56058					
	0.52207						AVRG		0.52029		5.37213

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Average %RSD Results.
Calculated Average %RSD = 12.83255
Maximun Average %RSD = 0.000e+000
* Failed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07205.d
Report Date: 13-Mar-2017 13:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031317.b\07205.d
Lab Smp Id: CAL1
Inj Date : 13-MAR-2017 09:58
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Meth Date : 13-Mar-2017 12:53 ecrouser Quant Type: ISTD
Cal Date : 13-MAR-2017 09:58 Cal File: 07205.d
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.065	2.065	(0.487)	308	0.10000	0.0890(M)
2	1,1-Difluoroethane	65	2.114	2.114	(0.499)	1207	0.10000	0.0815
3	Chlorodifluoromethane	67	2.130	2.130	(0.503)	616	0.10000	0.0778
4	Propylene	41	2.133	2.133	(0.503)	4091	0.10000	0.0802
5	Dichlorodifluoromethane	85	2.149	2.149	(0.507)	6995	0.10000	0.0953
6	Dichlorotetrafluoroethane	85	2.213	2.213	(0.522)	6905	0.10000	0.0964
7	Chloromethane	50	2.220	2.220	(0.524)	3008	0.10000	0.0944
8	Vinyl chloride	62	2.271	2.271	(0.536)	2339	0.10000	0.0963
9	1,3-Butadiene	54	2.300	2.300	(0.543)	1340	0.10000	0.0817
10	Bromomethane	94	2.412	2.412	(0.569)	2623	0.10000	0.0951
11	Chloroethane	64	2.441	2.441	(0.576)	941	0.10000	0.0980
12	Ethanol	45	2.515	2.515	(0.593)	3648	0.50000	0.555
13	Vinyl Bromide	106	2.531	2.531	(0.597)	2344	0.10000	0.0912
14	Isopentane	43	2.537	2.537	(0.599)	3047	0.10000	0.106
15	Freon 123	83	2.540	2.540	(0.599)	5868	0.10000	0.0905
16	Trichlorofluoromethane	101	2.598	2.598	(0.613)	7127	0.10000	0.0946
17	Acrolein	56	2.617	2.617	(0.618)	864	0.25000	0.160
18	Acetone	43	2.643	2.643	(0.624)	19240	0.50000	0.526
19	Isopropyl Alcohol	45	2.678	2.678	(0.632)	19791	0.50000	0.608
20	1,1-Dichloroethene	61	2.787	2.787	(0.658)	3726	0.10000	0.0860
21	Acrylonitrile	53	2.813	2.813	(0.664)	2666	0.25000	0.184
24	Tert Butyl Alcohol (TBA)	59	2.839	2.839	(0.670)	11102	0.25000	0.249
22	Freon 113	101	2.816	2.816	(0.665)	4631	0.10000	0.0807

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07205.d
Report Date: 13-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.832	2.832	(0.668)	6063	0.10000	0.0978
	25 Methylene chloride	49	2.865	2.865	(0.676)	15112	0.50000	0.520
	26 Allyl Chloride	76	2.871	2.871	(0.677)	914	0.25000	0.149
	27 Carbon Disulfide	76	2.958	2.958	(0.698)	5868	0.10000	0.0960
	28 trans-1,2-dichloroethene	96	3.080	3.080	(0.727)	1561	0.10000	0.0750
	29 Methyl Tert Butyl Ether	73	3.115	3.115	(0.735)	13313	0.25000	0.238
	30 Vinyl Acetate	43	3.185	3.185	(0.752)	2708	0.10000	0.0560(M)
	31 1,1-Dichloroethane	63	3.185	3.185	(0.752)	3963	0.10000	0.0866
$	32 Hexane-d14(S)	66	3.262	3.262	(0.770)	1373207	10.0000	10.2
	33 Methyl Ethyl Ketone	72	3.349	3.349	(0.790)	854	0.10000	0.0870(M)
	34 n-Hexane	57	3.343	3.343	(0.789)	3030	0.10000	0.0888
	35 Di-isopropyl Ether	45	3.368	3.368	(0.795)	7779	0.10000	0.0915
	36 cis-1,2-Dichloroethene	96	3.458	3.458	(0.816)	1736	0.10000	0.0743
	37 Ethyl Acetate	43	3.484	3.484	(0.822)	5201	0.10000	0.0915(M)
	38 Ethyl Tert-Butyl Ether	59	3.561	3.561	(0.840)	16731	0.25000	0.243
	39 Chloroform	83	3.548	3.548	(0.837)	5257	0.10000	0.0869
	40 Tetrahydrofuran	42	3.724	3.724	(0.879)	2471	0.10000	0.0885
	41 1,1,1-Trichloroethane	97	3.882	3.882	(0.916)	5176	0.10000	0.0836
	42 1,2-Dichloroethane	62	3.904	3.904	(0.921)	3797	0.10000	0.0864
	43 Benzene	78	4.097	4.097	(0.967)	6408	0.10000	0.0930
	45 Carbon tetrachloride	117	4.106	4.106	(0.969)	5578	0.10000	0.0937
	44 Cyclohexane	56	4.110	4.110	(0.970)	3359	0.10000	0.0963
	46 Tert Amyl Methyl Ether	73	4.238	4.238	(1.000)	49776	0.10000	0.274
*	47 1,4-Difluorobenzene	114	4.238	4.238	(1.000)	2931414	10.0000	
	48 2,2,4-Trimethylpentane	57	4.360	4.360	(1.029)	29221	0.25000	0.271
	49 Heptane	43	4.479	4.479	(1.057)	4576	0.10000	0.0885
	50 1,2-Dichloropropane	63	4.549	4.549	(1.073)	2876	0.10000	0.0918
	51 Trichloroethene	130	4.562	4.562	(1.076)	3520	0.10000	0.0880
	52 Methyl methacrylate	69	4.661	4.661	(1.100)	1994	0.10000	0.0834(M)
	53 Bromodichloromethane	83	4.655	4.655	(1.098)	5609	0.10000	0.0835
	54 1,4-Dioxane	88	4.713	4.713	(1.112)	1204	0.10000	0.151(M)
	55 Methylcyclohexane	98	4.950	4.950	(1.168)	1087	0.10000	0.0778
	56 Methyl Isobutyl Ketone	43	5.101	5.101	(1.204)	14879	0.25000	0.232
	57 cis-1,3-Dichloropropene	75	5.127	5.127	(1.210)	3676	0.10000	0.0856
	58 trans-1,3-Dichloropropene	75	5.505	5.505	(1.299)	3216	0.10000	0.0858(M)
$	59 Toluene-d8 (S)	98	5.560	5.560	(1.312)	2802931	10.0000	10.1
	60 Toluene	91	5.627	5.627	(1.328)	8478	0.10000	0.0920
	61 1,1,2-Trichloroethane	97	5.640	5.640	(1.331)	3272	0.10000	0.0900
	62 Methyl Butyl Ketone	43	5.897	5.897	(0.839)	13443	0.25000	0.219(M)
	63 n-Octane	43	6.048	6.048	(0.861)	5608	0.10000	0.0883(M)
	64 Dibromochloromethane	129	6.118	6.118	(0.871)	4950	0.10000	0.0744
	65 1,2-Dibromoethane	107	6.333	6.333	(0.901)	4910	0.10000	0.0839
	66 Tetrachloroethene	166	6.401	6.401	(0.911)	5682	0.10000	0.0897
*	67 Chlorobenzene - d5	117	7.026	7.026	(1.000)	2161928	10.0000	
	68 Chlorobenzene	112	7.065	7.065	(1.005)	6637	0.10000	0.0895
	69 Ethyl Benzene	91	7.318	7.318	(1.042)	12264	0.10000	0.104
	70 m&p-Xylene	91	7.453	7.453	(1.061)	19325	0.20000	0.216
	71 Bromoform	173	7.822	7.822	(1.113)	4143	0.10000	0.0696
	72 n-Nonane	43	7.854	7.854	(1.118)	4511	0.10000	0.0769(M)
	73 Styrene	104	7.870	7.870	(1.120)	4696	0.10000	0.0762
	74 o-Xylene	91	7.928	7.928	(1.128)	10608	0.10000	0.110
	75 1,1,2,2-Tetrachloroethane	83	8.195	8.195	(1.166)	6285	0.10000	0.0955
	76 Isopropylbenzene	105	8.493	8.493	(1.209)	12575	0.10000	0.103
	77 N-Propylbenzene	91	9.054	9.054	(1.289)	11795	0.10000	0.0917(M)

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07205.d
Report Date: 13-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.231	9.231	(1.314)	8520	0.10000	0.0822(M)
79	1,3,5-Trimethylbenzene	105	9.321	9.321	(1.327)	12625	0.10000	0.122
80	n-Decane	57	9.709	9.709	(2.291)	3437	0.10000	0.0730(M)
81	Tert-Butyl Benzene	119	9.805	9.805	(1.395)	9148	0.10000	0.0947
82	1,2,4-Trimethylbenzene	105	9.825	9.825	(1.398)	18340	0.10000	0.160(M)
83	1,3-Dichlorobenzene	146	10.120	10.120	(1.440)	6954	0.10000	0.104(M)
84	Sec- Butylbenzene	105	10.149	10.149	(1.444)	10642	0.10000	0.0882(M)
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.190	10.190	(1.450)	1086811	10.0000	9.66
86	Benzyl Chloride	91	10.216	10.216	(1.454)	6366	0.10000	0.0936
87	1,4-Dichlorobenzene	146	10.229	10.229	(1.456)	7543	0.10000	0.110
88	p-Isopropyltoluene	119	10.370	10.370	(1.476)	9467	0.10000	0.0858
89	1,2,3-Trimethylbenzene	105	10.409	10.409	(1.481)	7610	0.10000	0.0887
90	1,2-Dichlorobenzene	146	10.704	10.704	(1.523)	6232	0.10000	0.0993(M)
91	N-Butylbenzene	91	10.973	10.973	(1.562)	8511	0.10000	0.0913(M)
92	1,2-Dibromo-3-Chloropropane	157	11.529	11.529	(1.641)	1558	0.10000	0.0885(M)
93	1,2,4-Trichlorobenzene	180	12.847	12.847	(1.828)	5539	0.10000	0.198
94	Naphthalene	128	12.963	12.963	(1.845)	11593	0.10000	0.219(M)
95	Hexachlorobutadiene	225	13.216	13.216	(1.881)	5486	0.10000	0.162(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07205.d
Report Date: 13-Mar-2017 13:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07205.d
Lab Smp Id: CAL1
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Misc Info:

Calibration Date: 13-MAR-2017
Calibration Time: 11:34
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

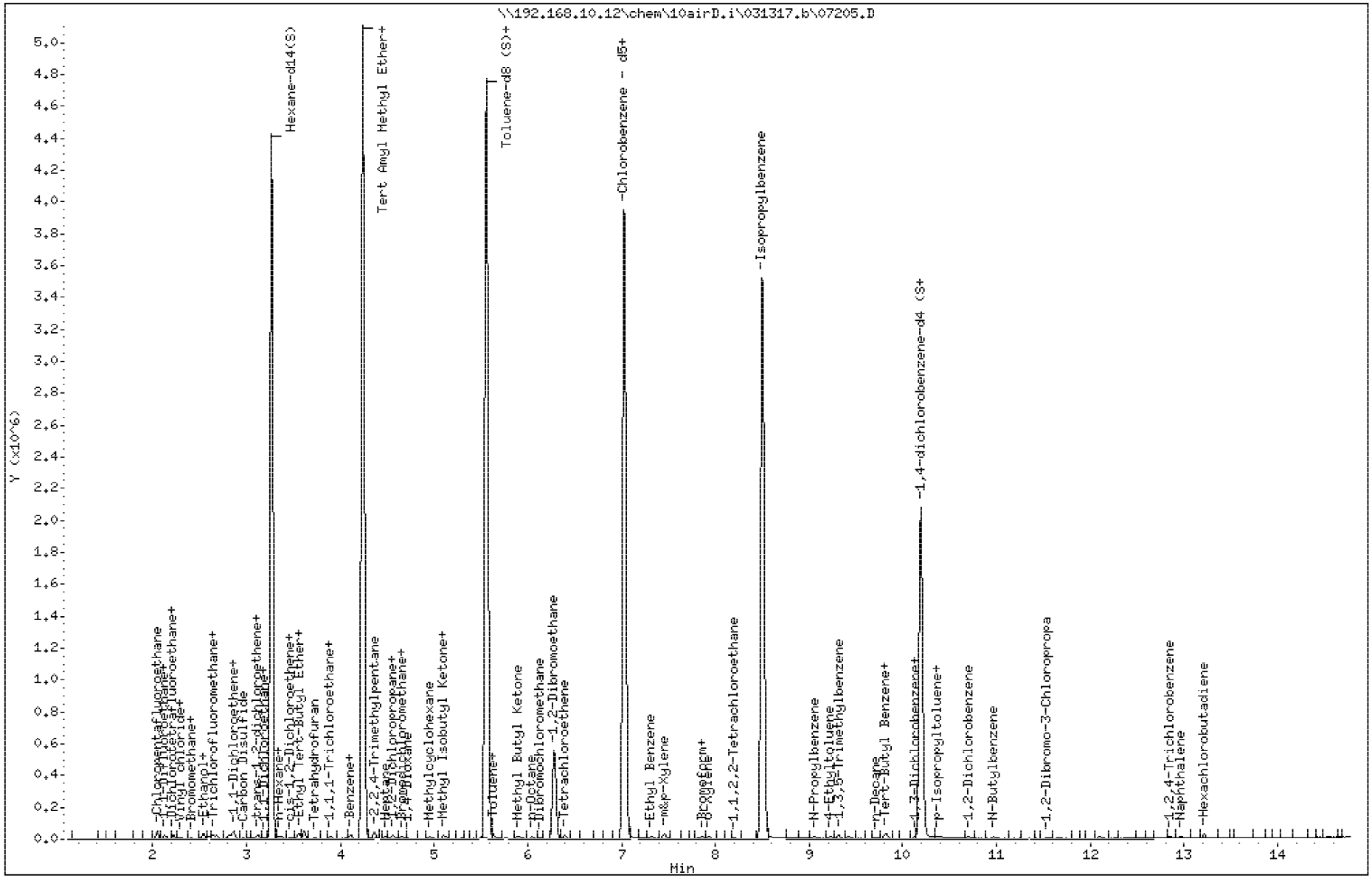
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2916193	1749716	4082670	2931414	0.52
67 Chlorobenzene - d	2134582	1280749	2988415	2161928	1.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.23
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

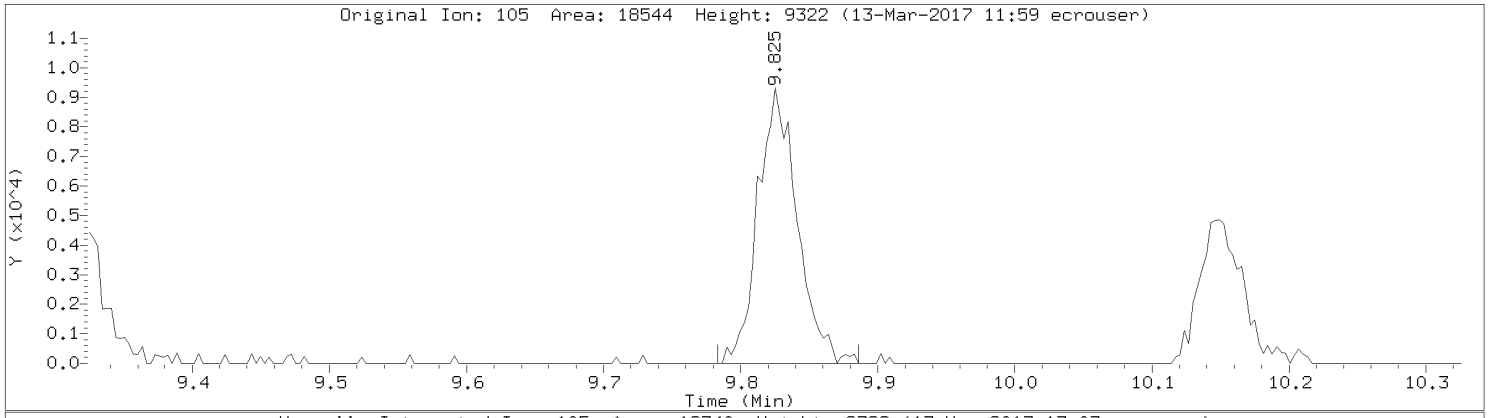
Data File: \\192.168.10.12\chem\10airD.i\031317.b\07205.D
Date : 13-MAR-2017 09:58
Client ID:
Sample Info:

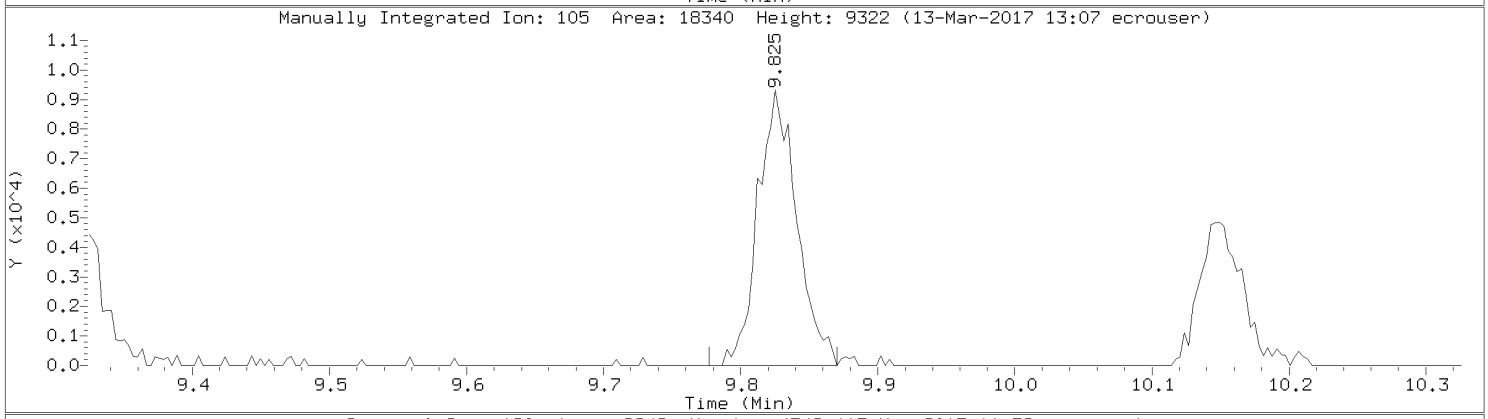
Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

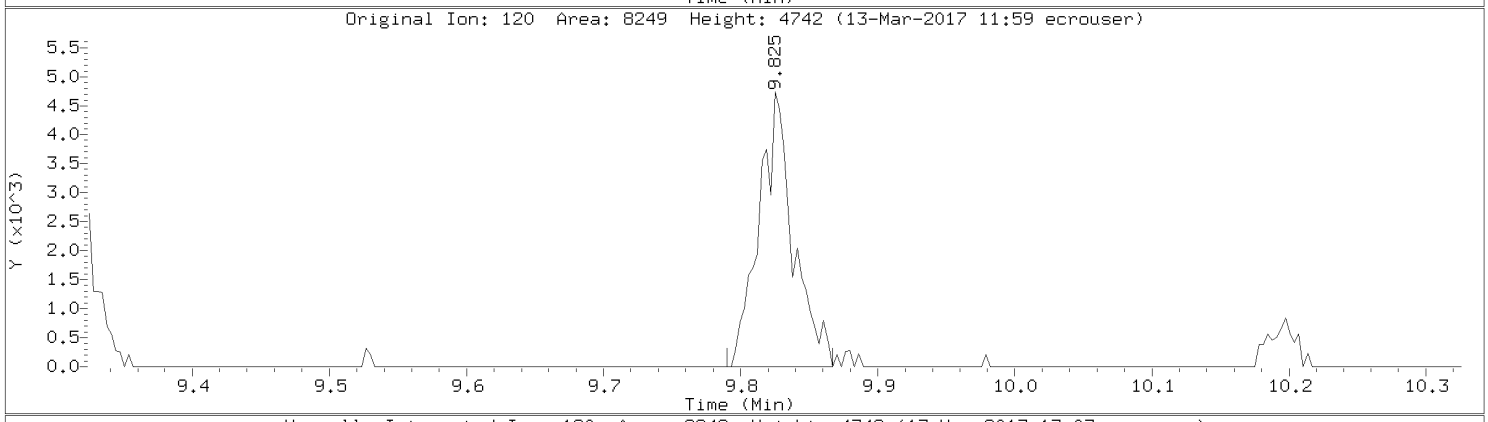


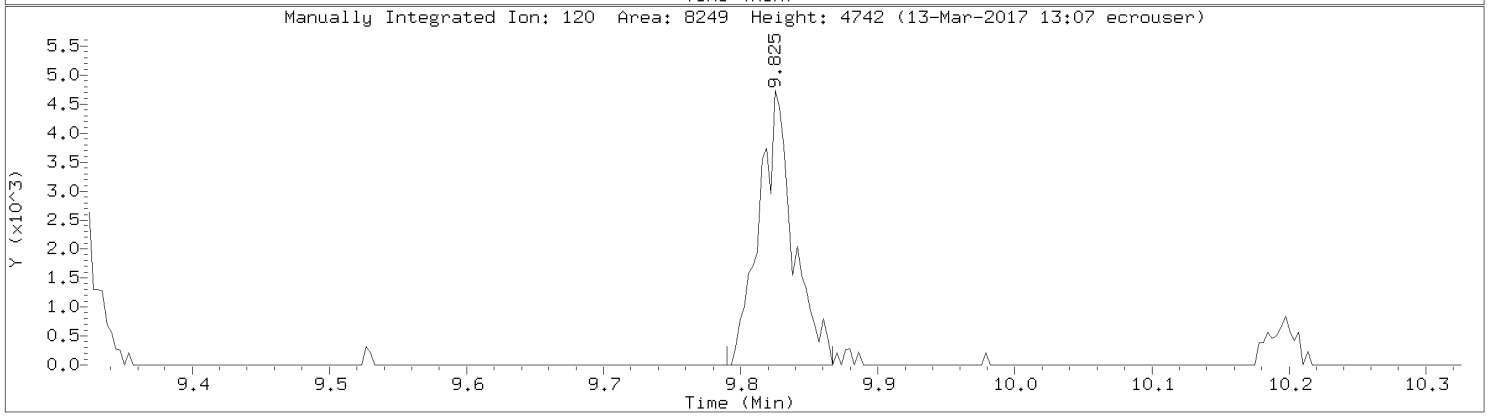
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,2,4-Trimethylbenzene
CAS Number: 95-63-6



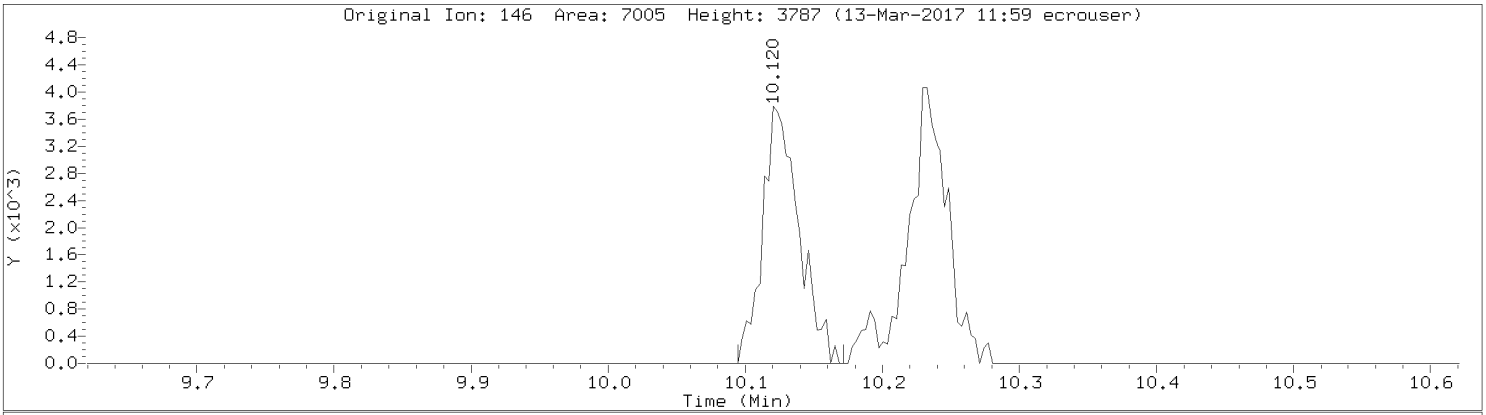


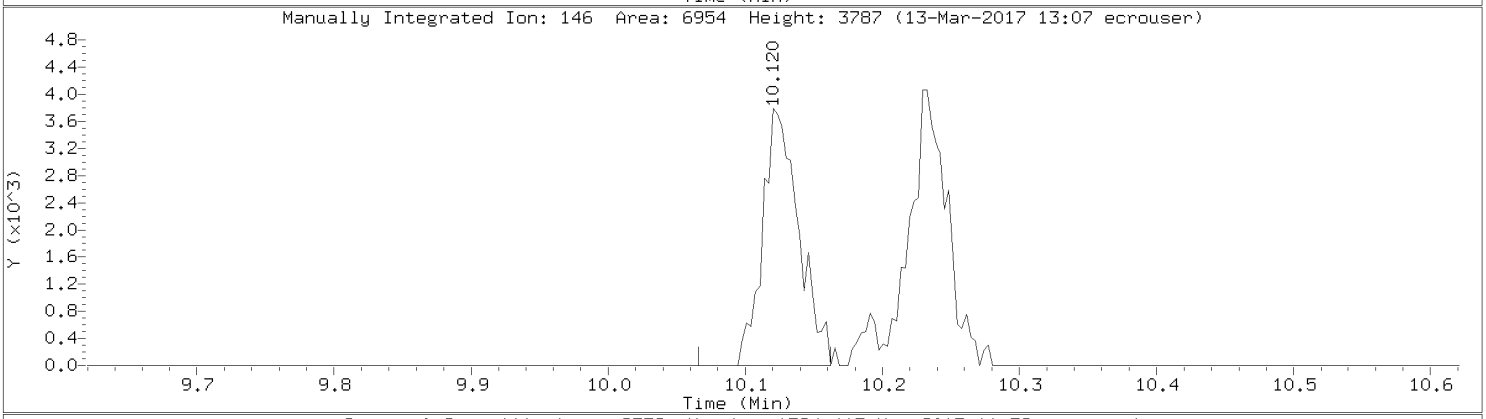


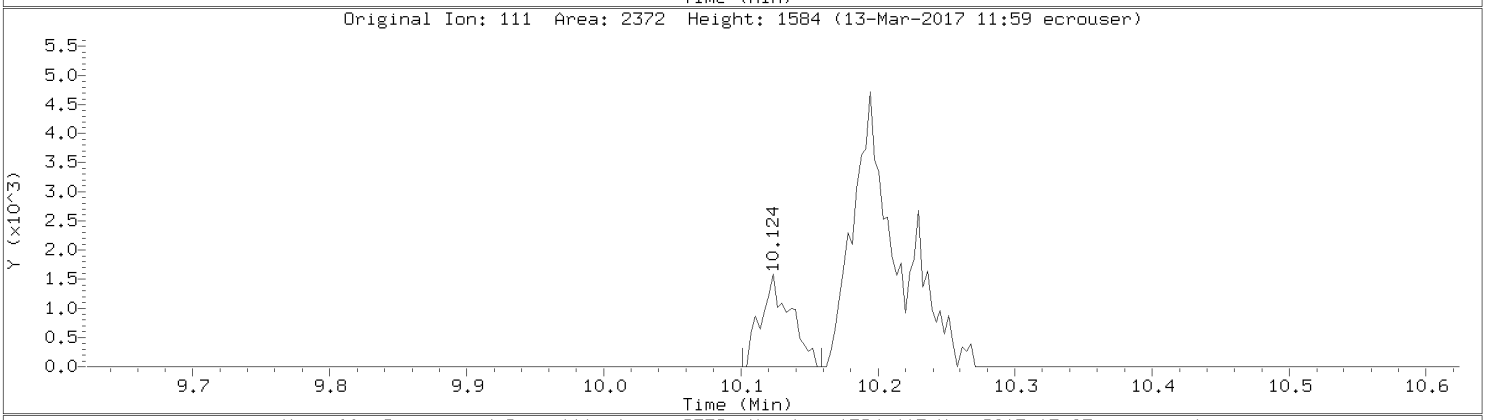


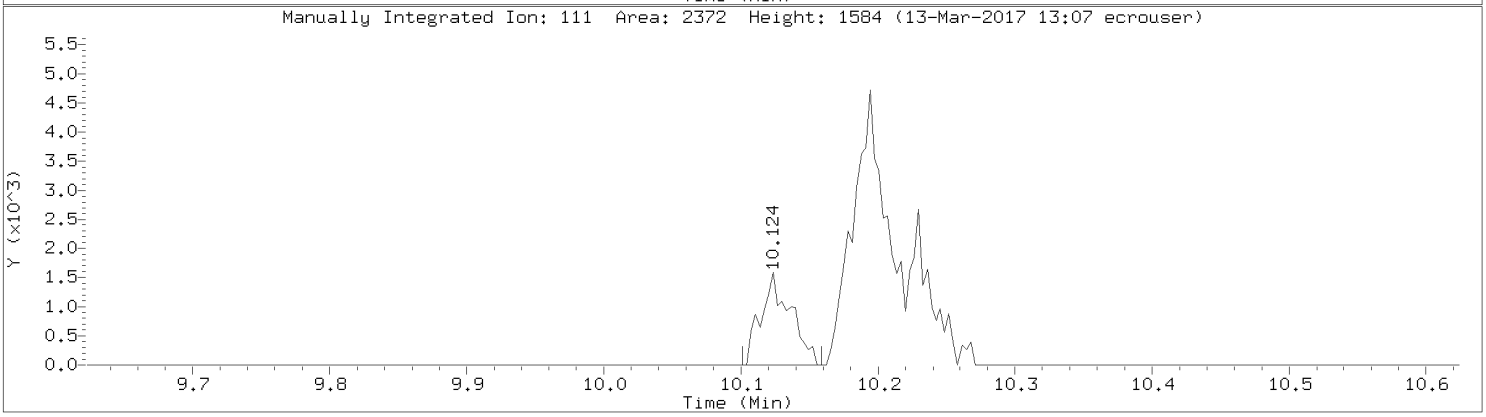
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

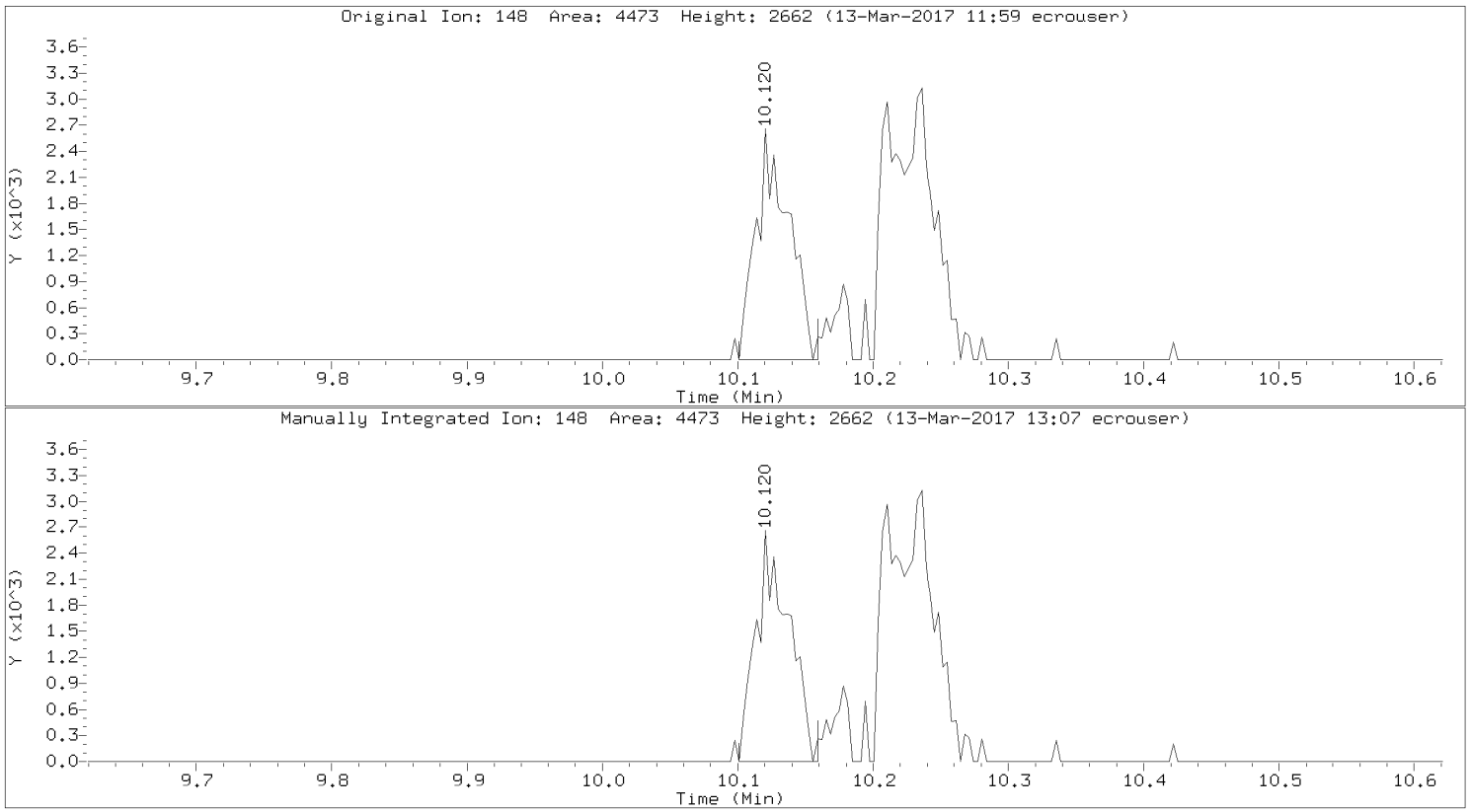






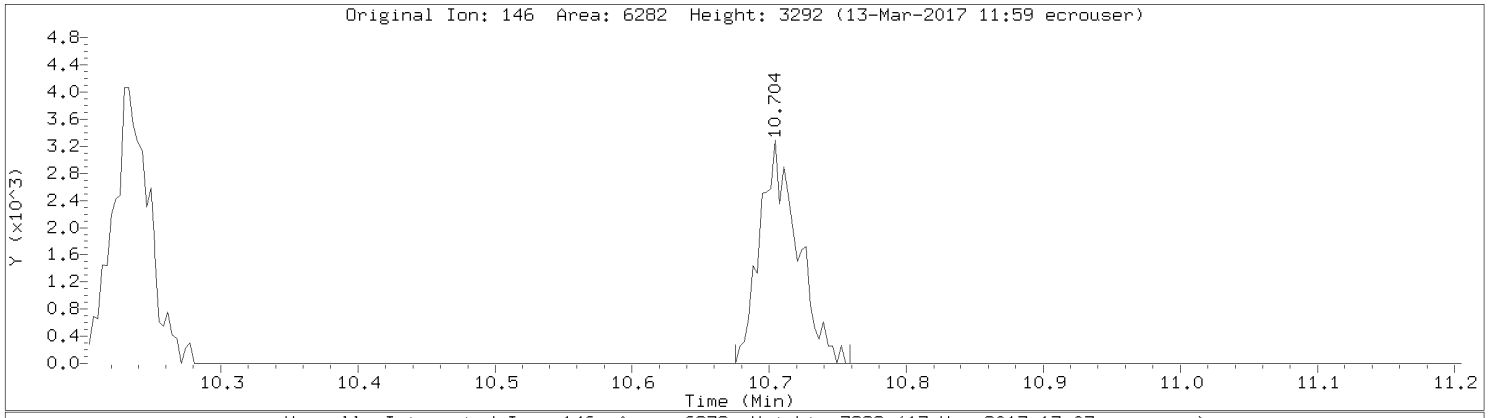


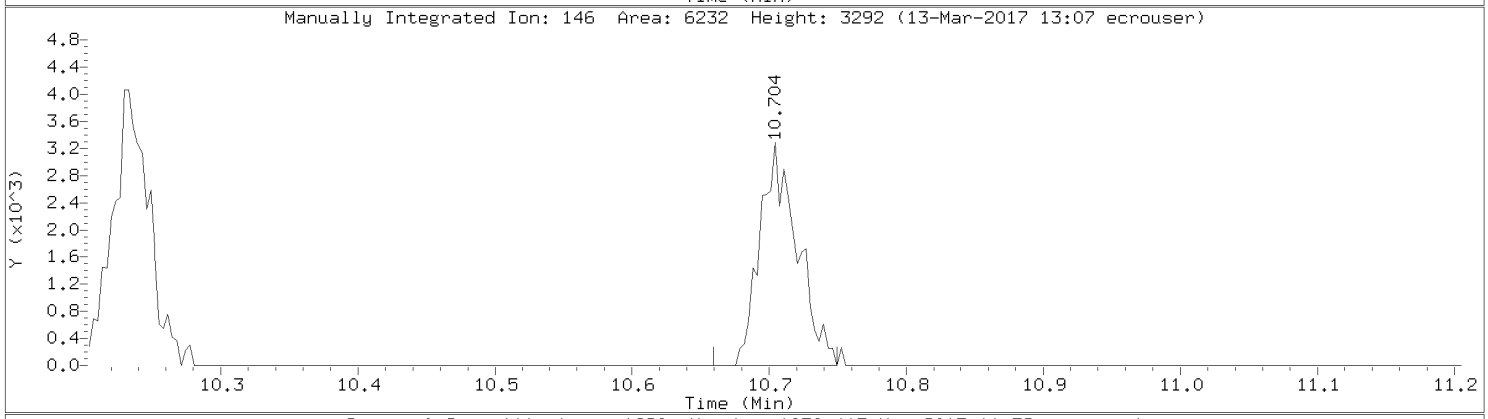
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

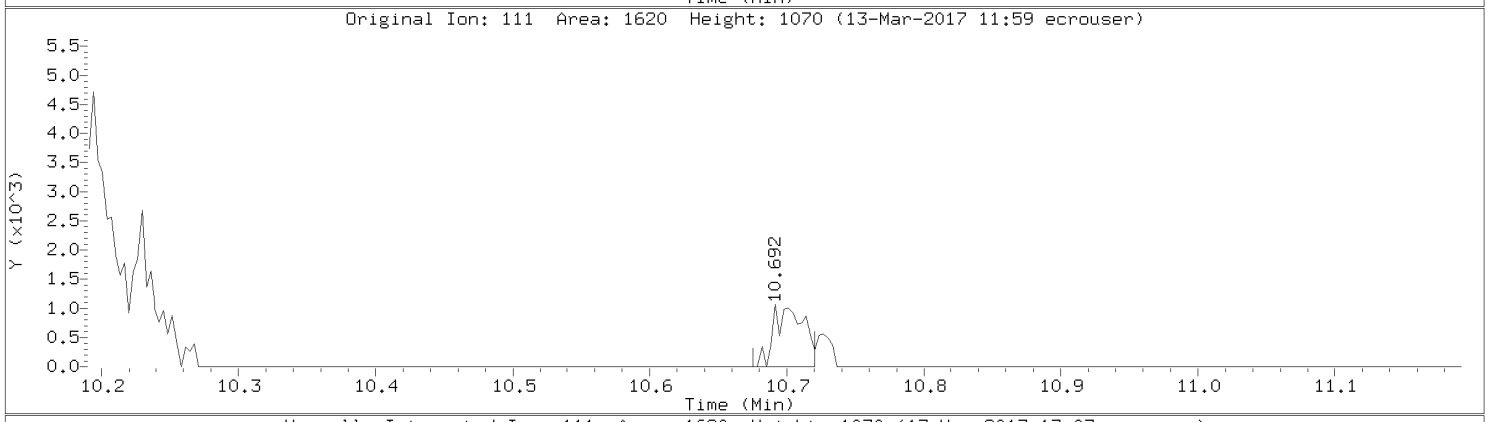


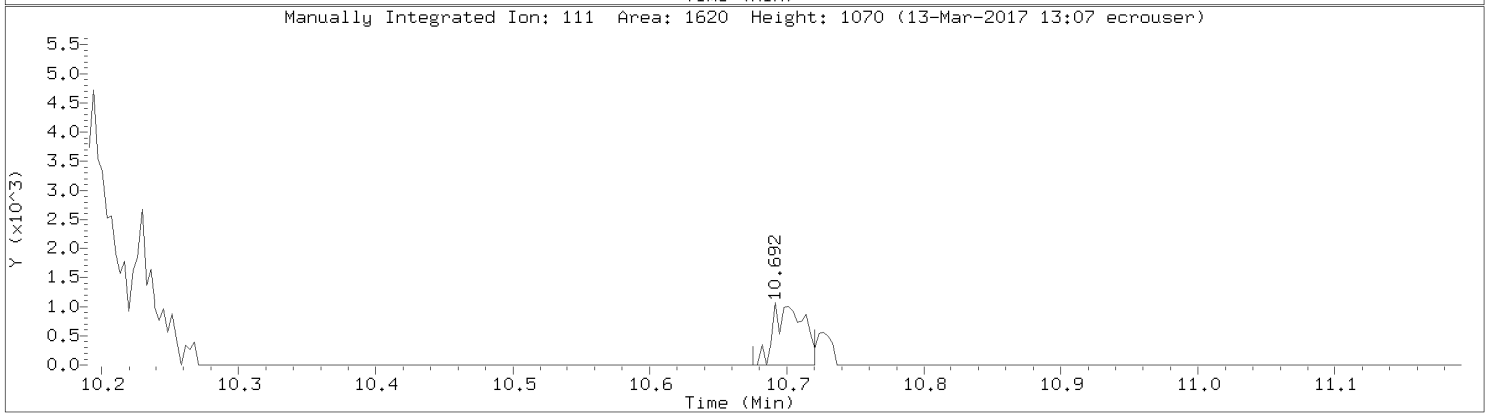
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,2-Dichlorobenzene
CAS Number: 95-50-1

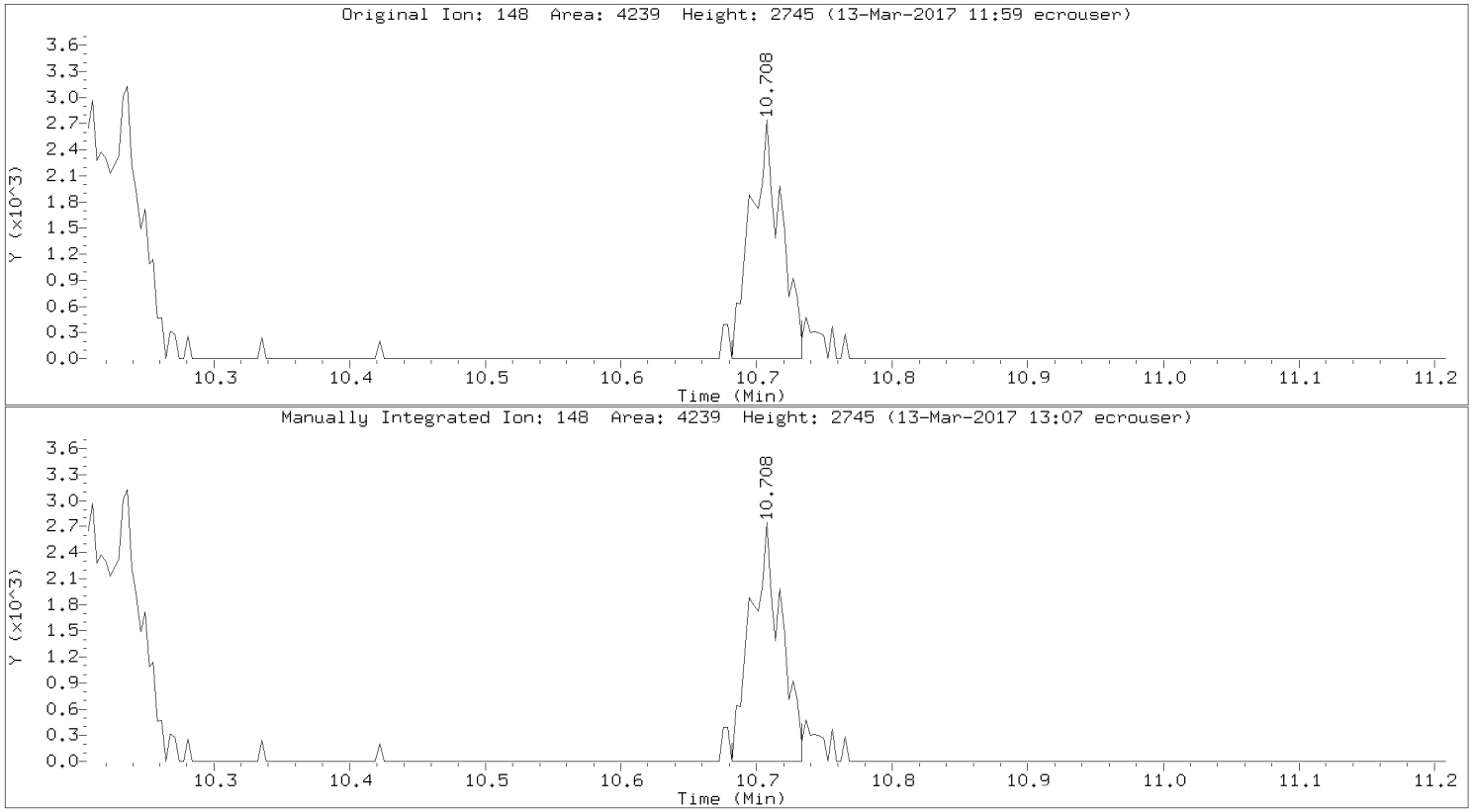






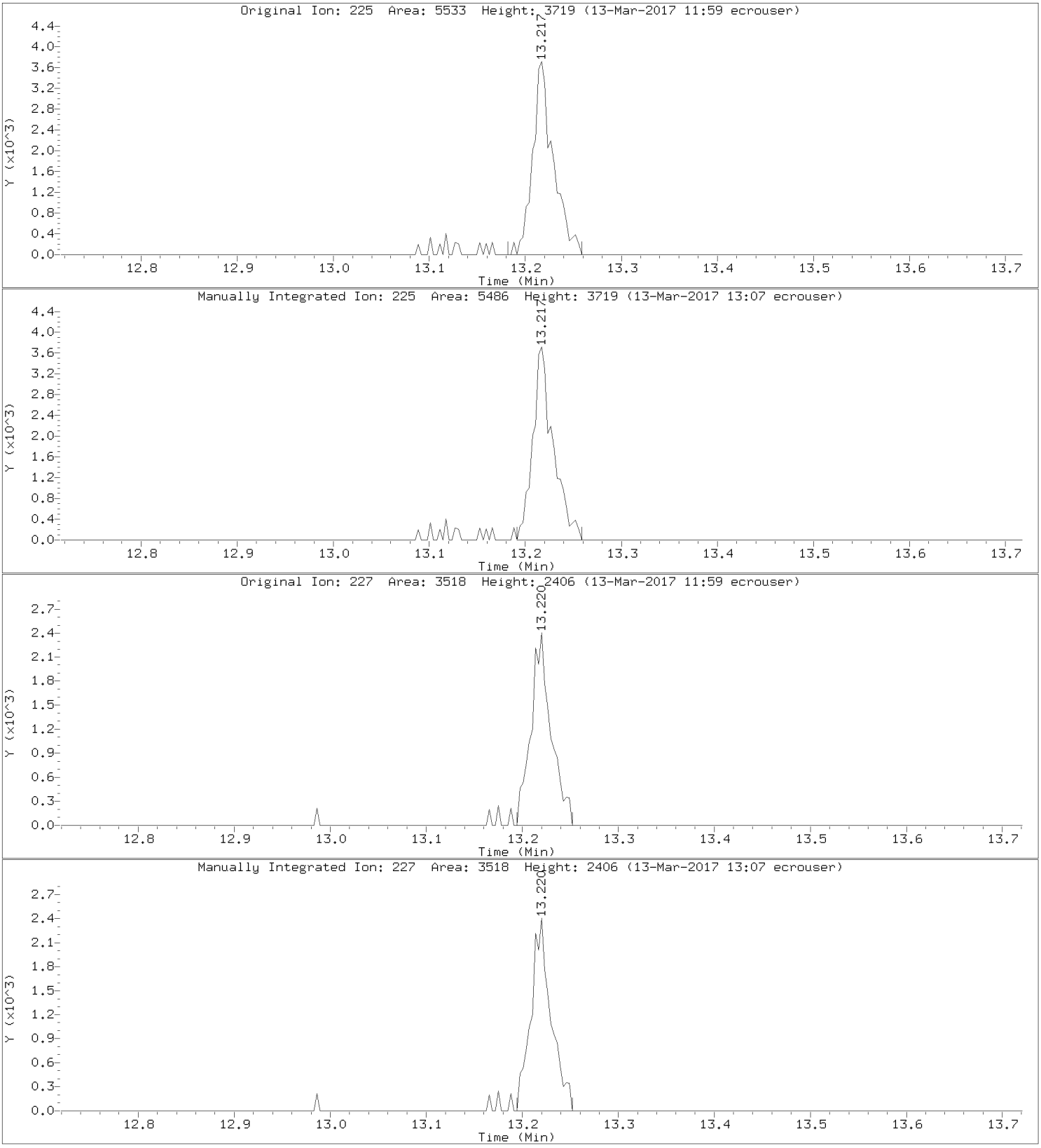


Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

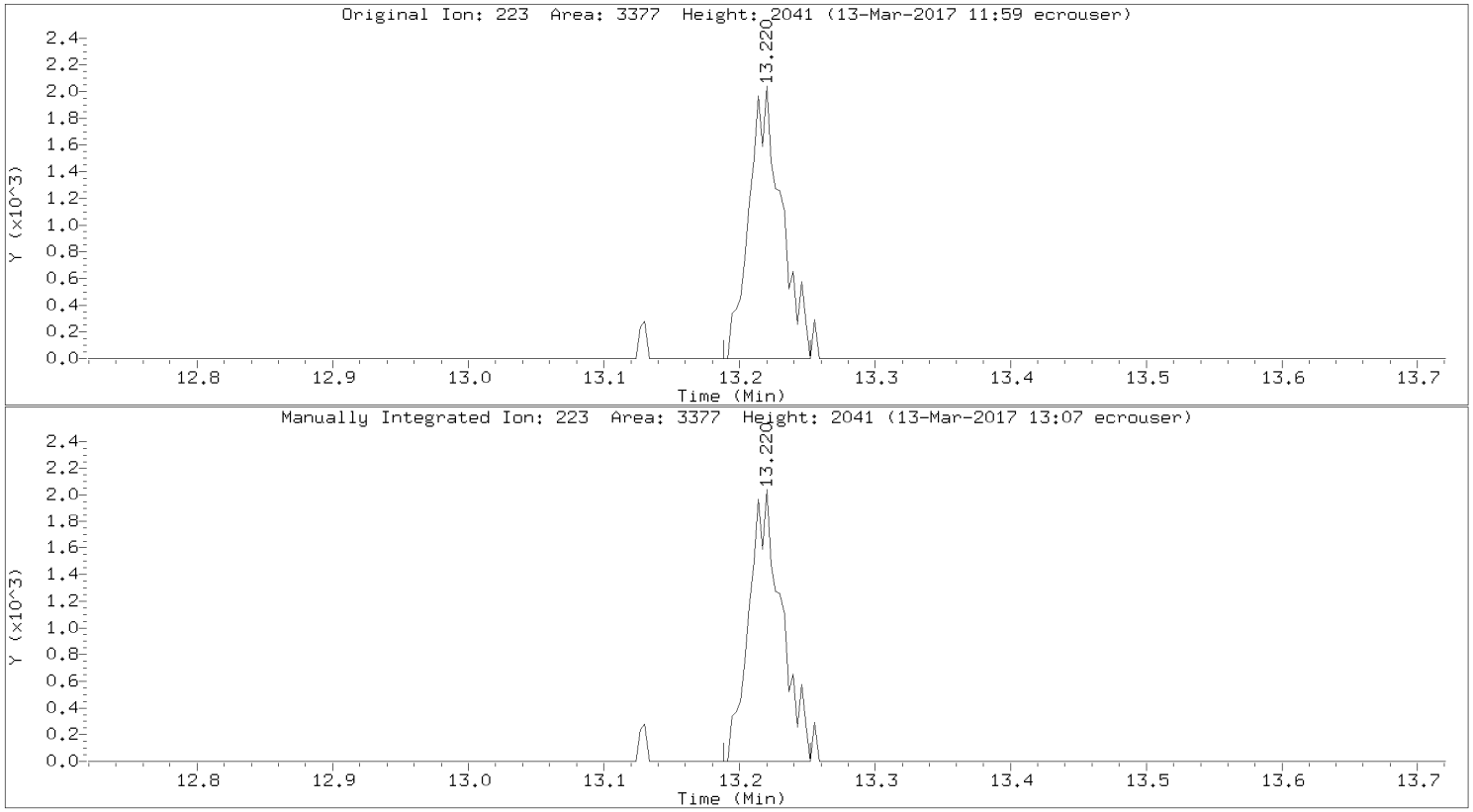


Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Hexachlorobutadiene
CAS Number: 87-68-3

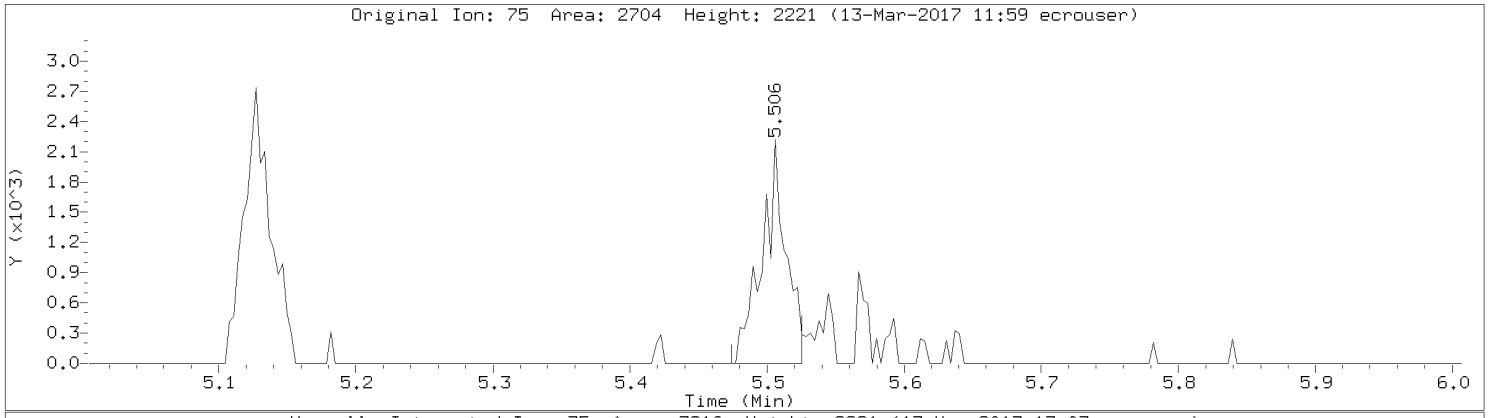


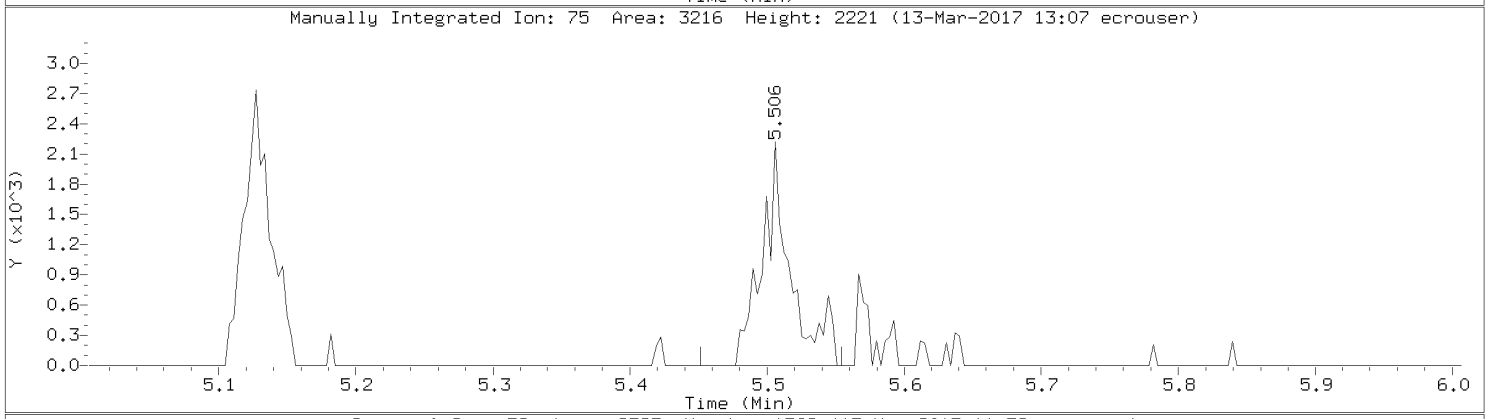
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

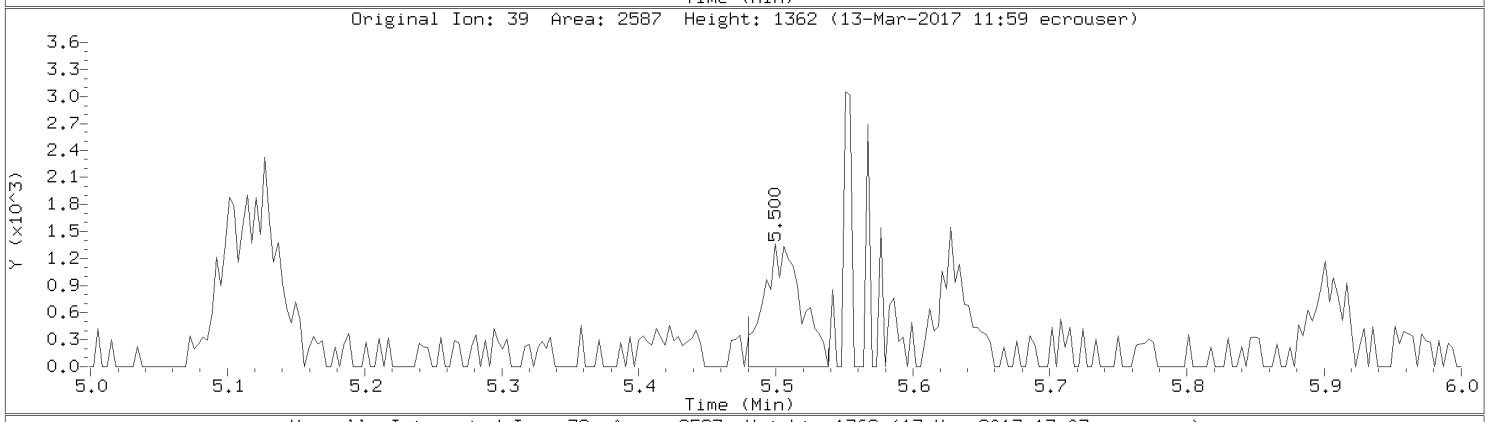


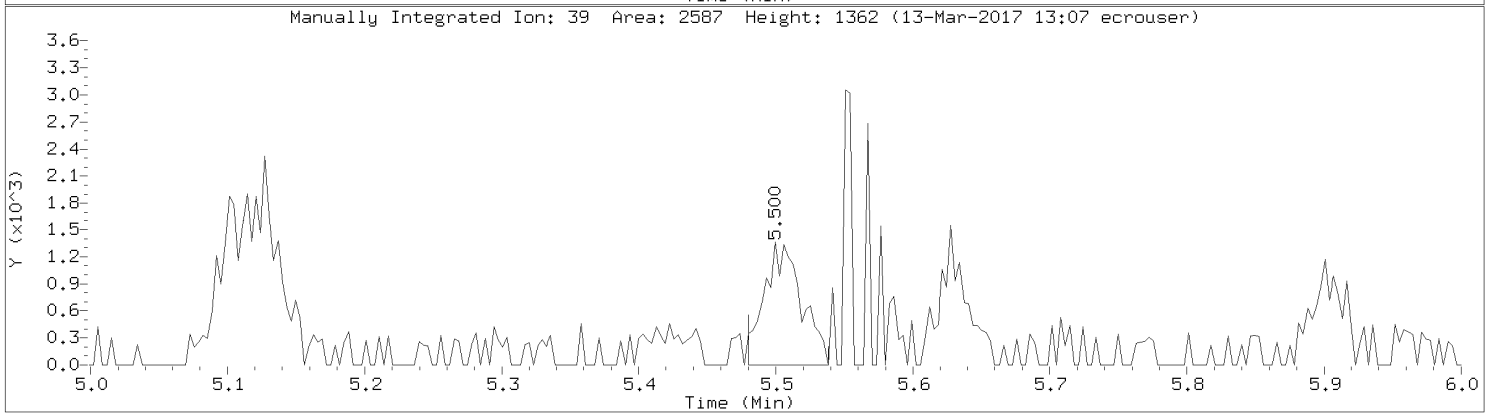
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

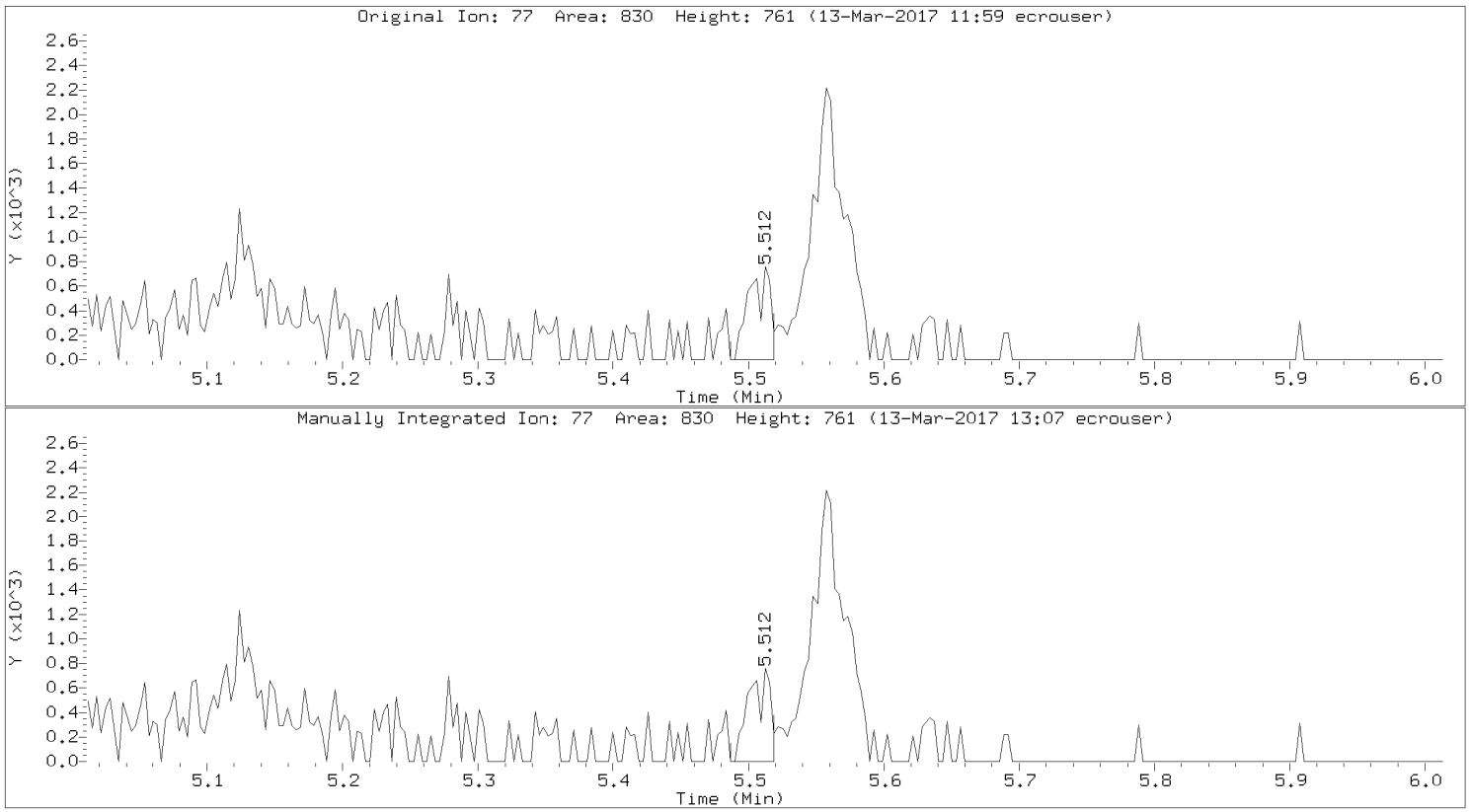






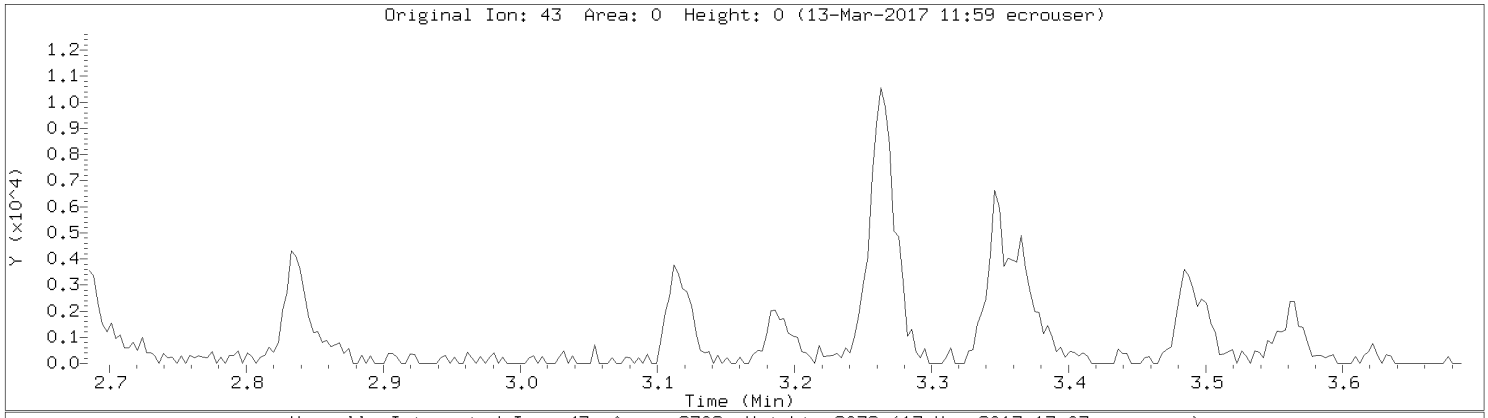


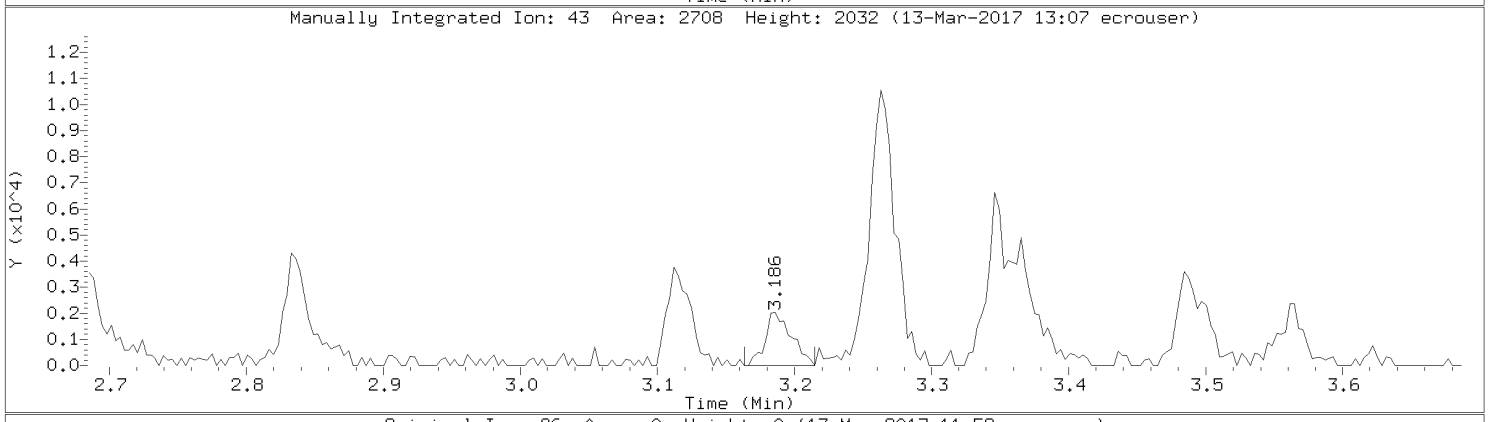
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

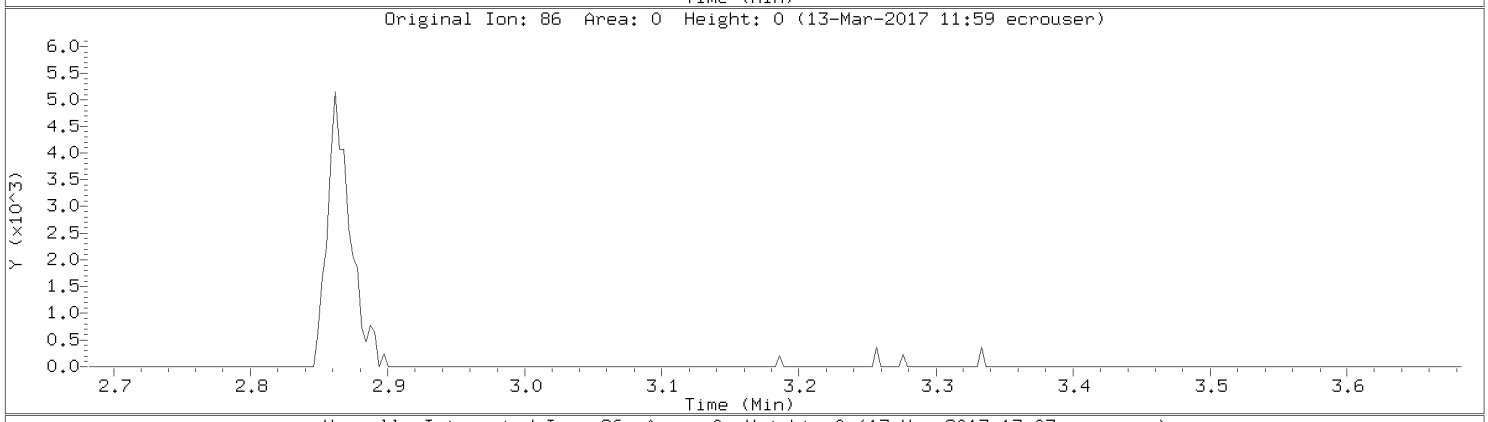


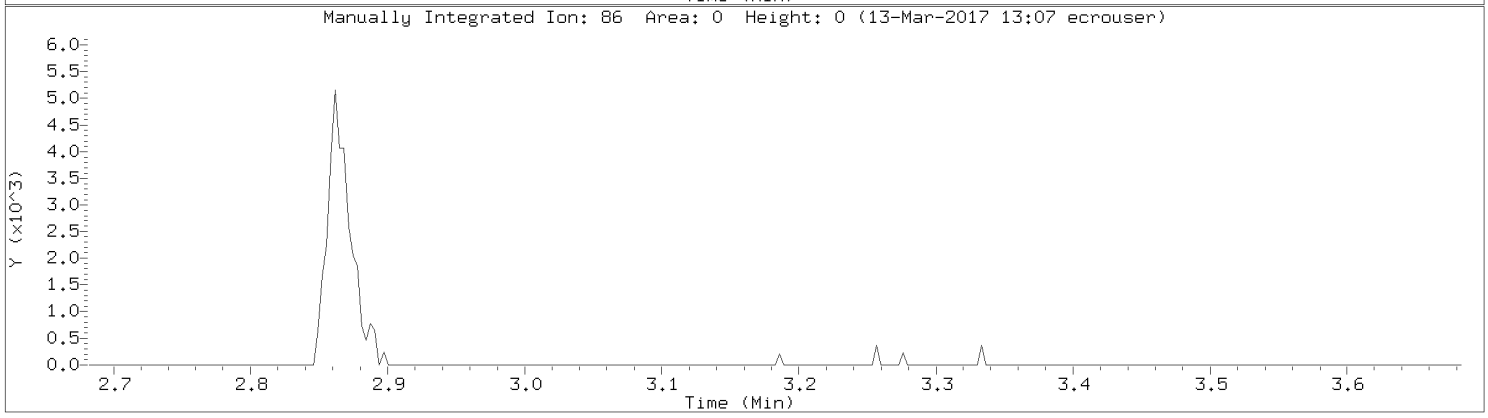
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Vinyl Acetate
CAS Number: 108-05-4



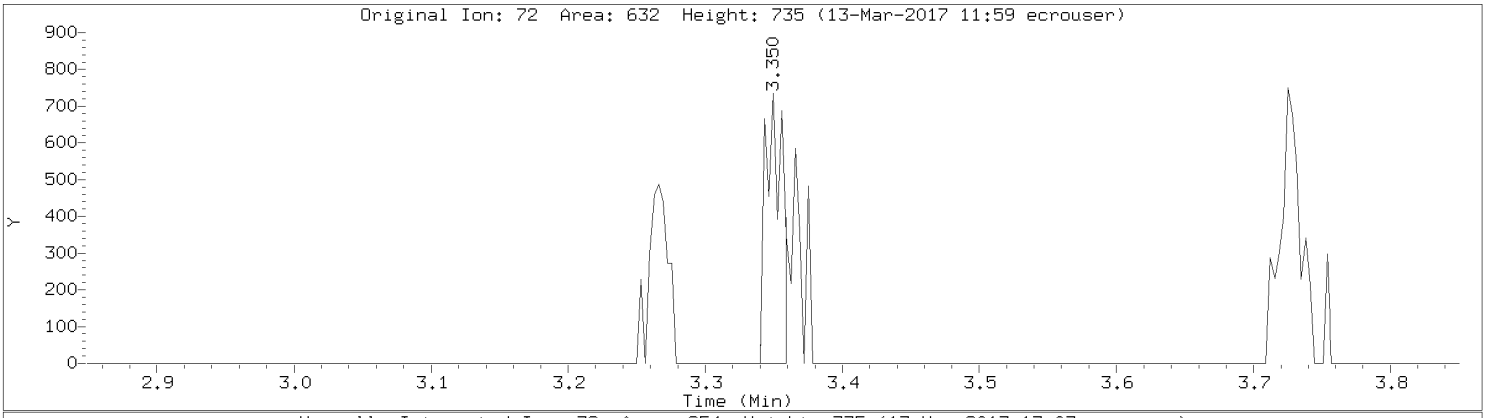


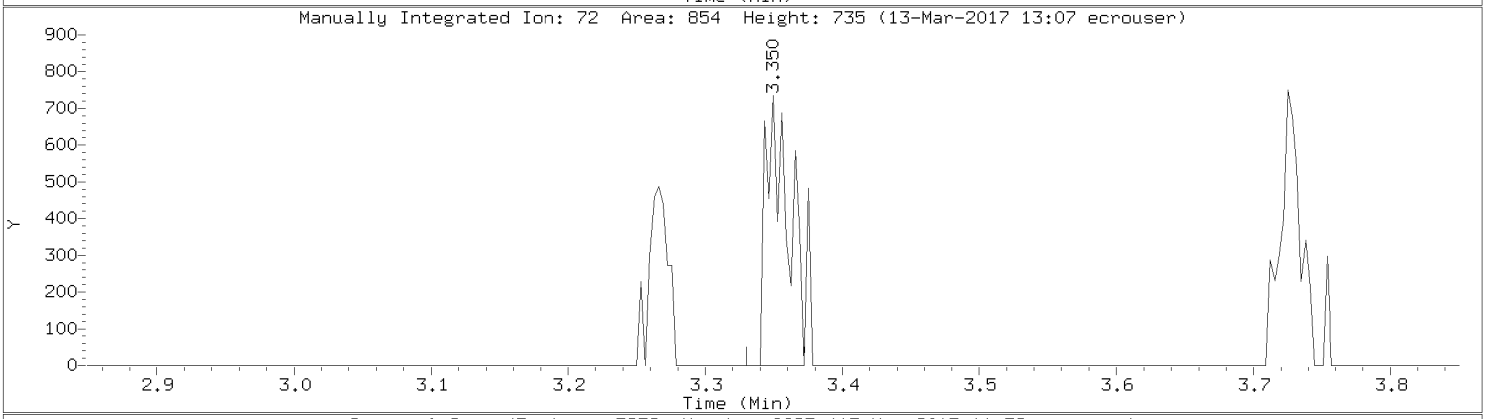


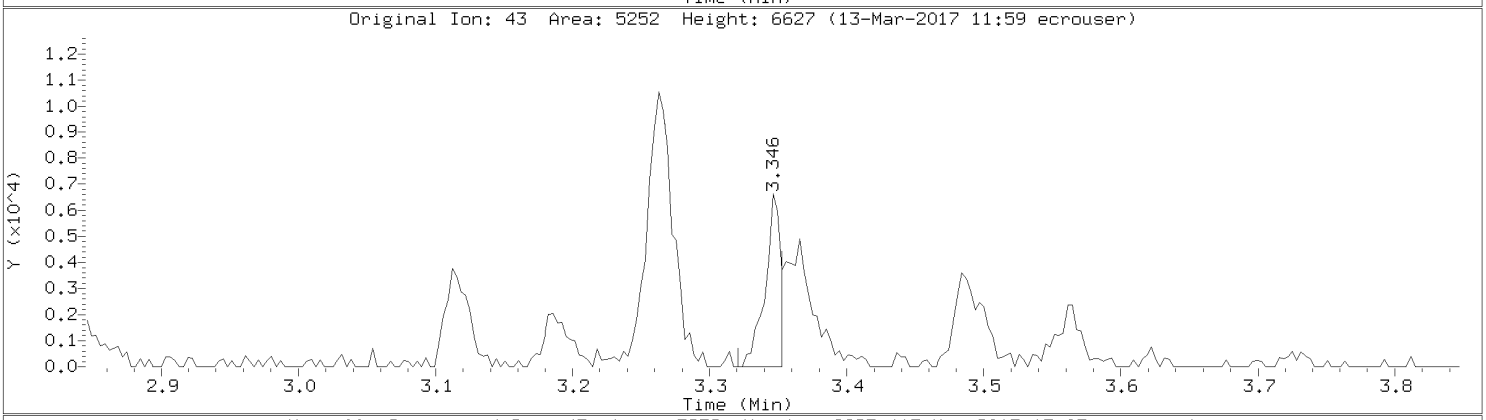


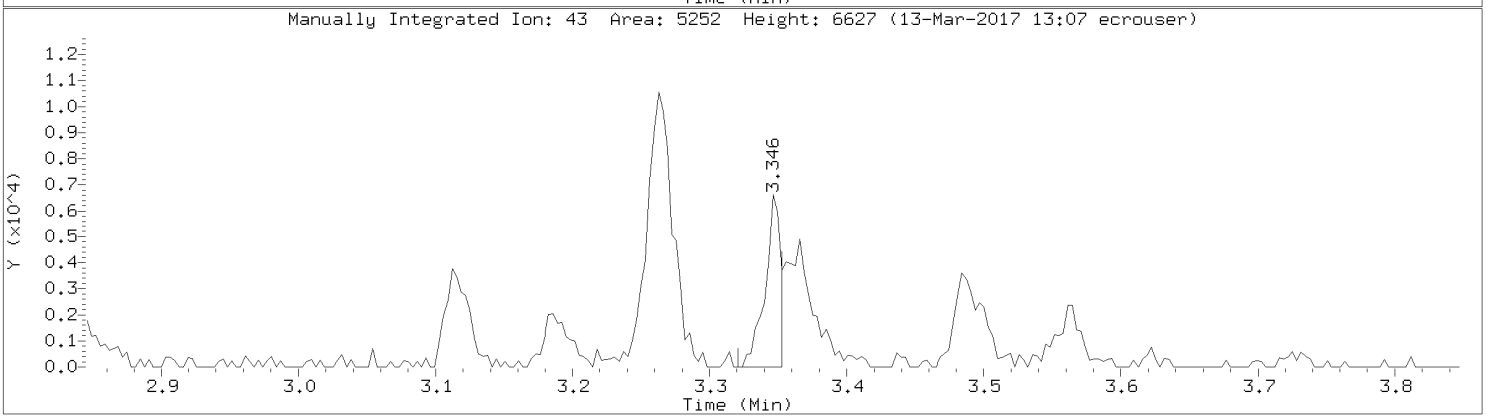
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



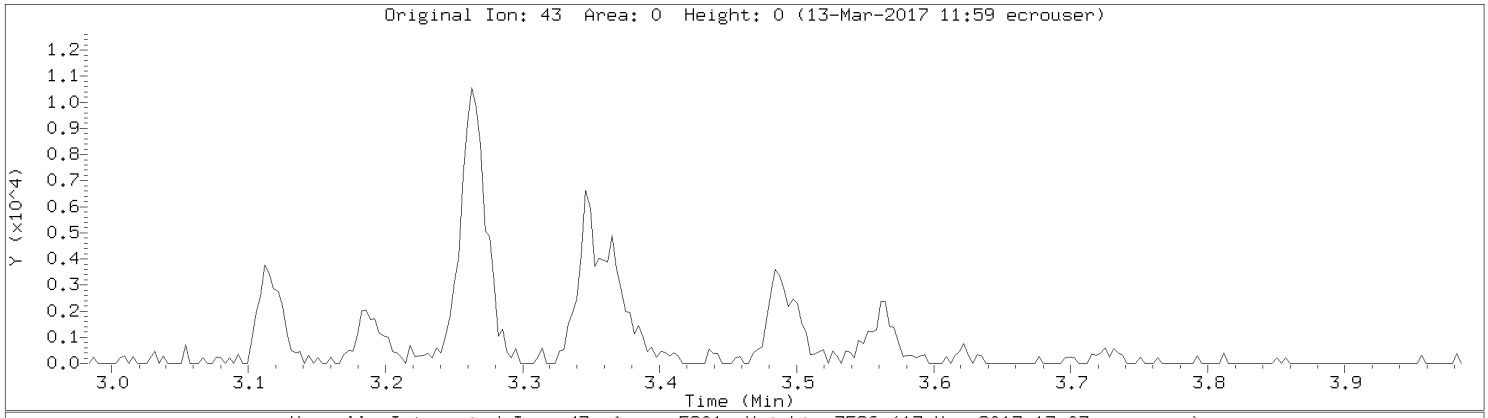


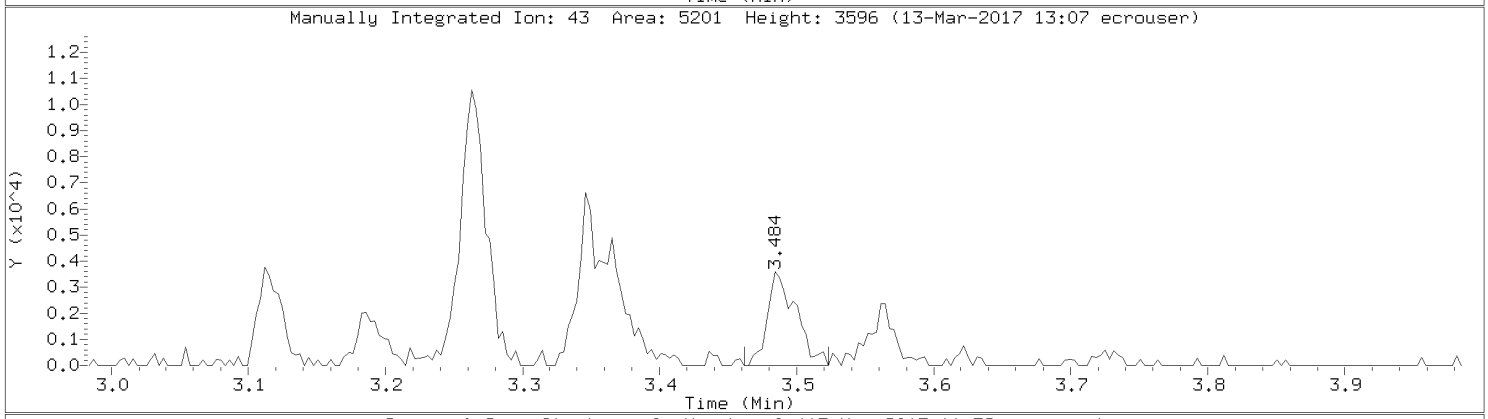


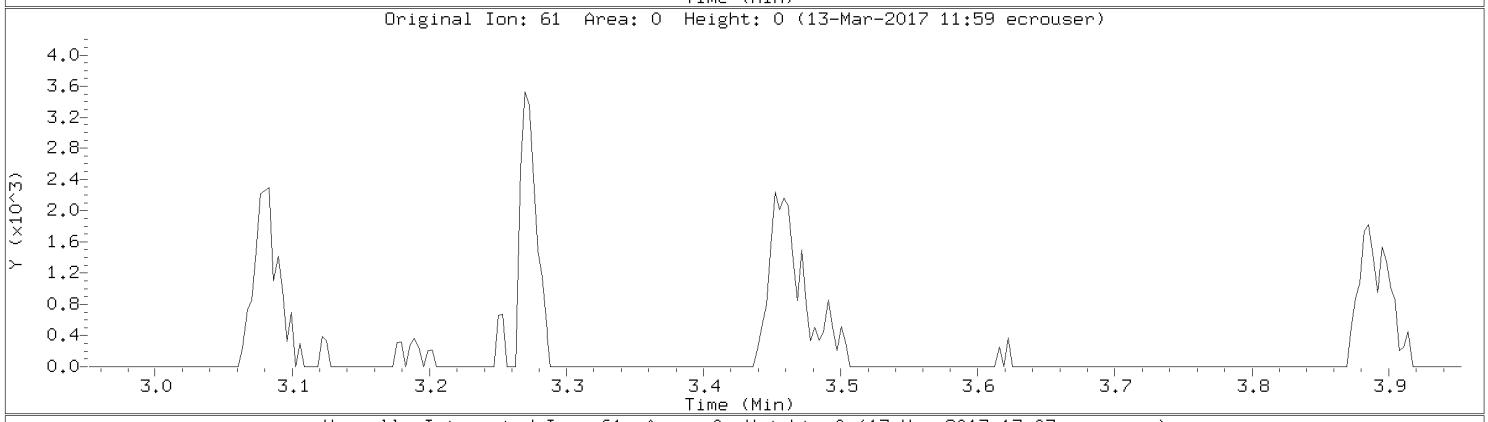


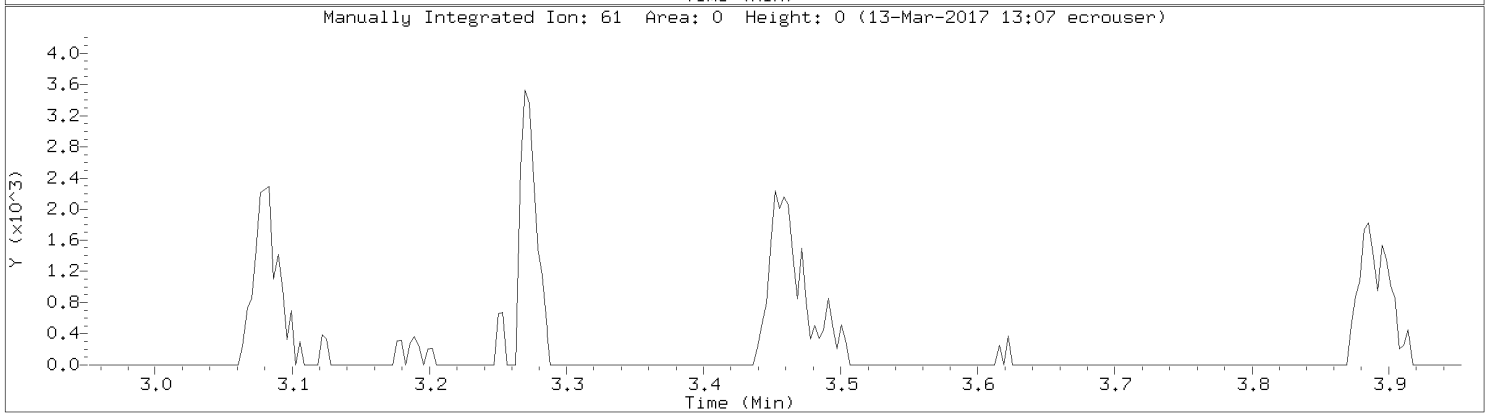
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Ethyl Acetate
CAS Number: 141-78-6

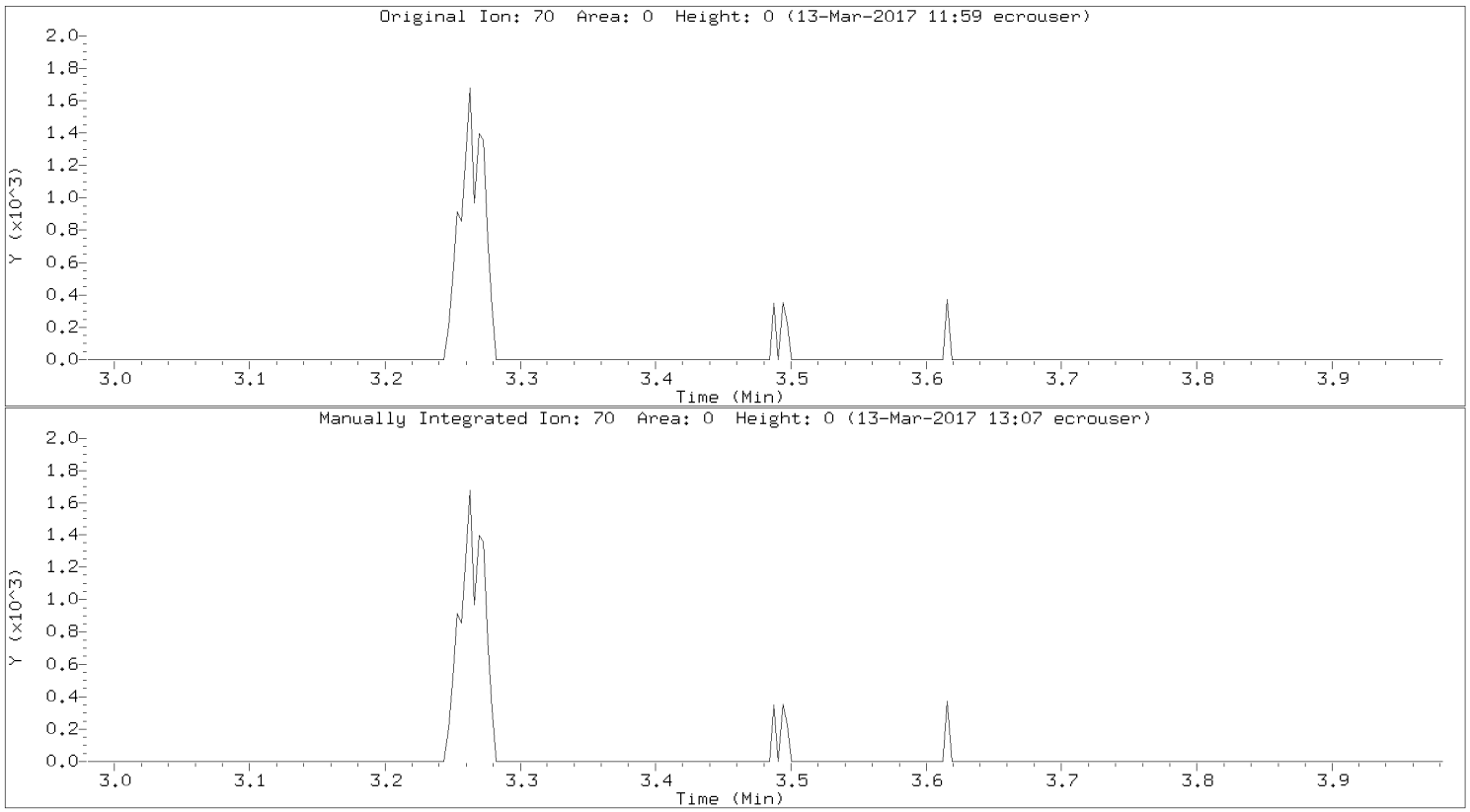






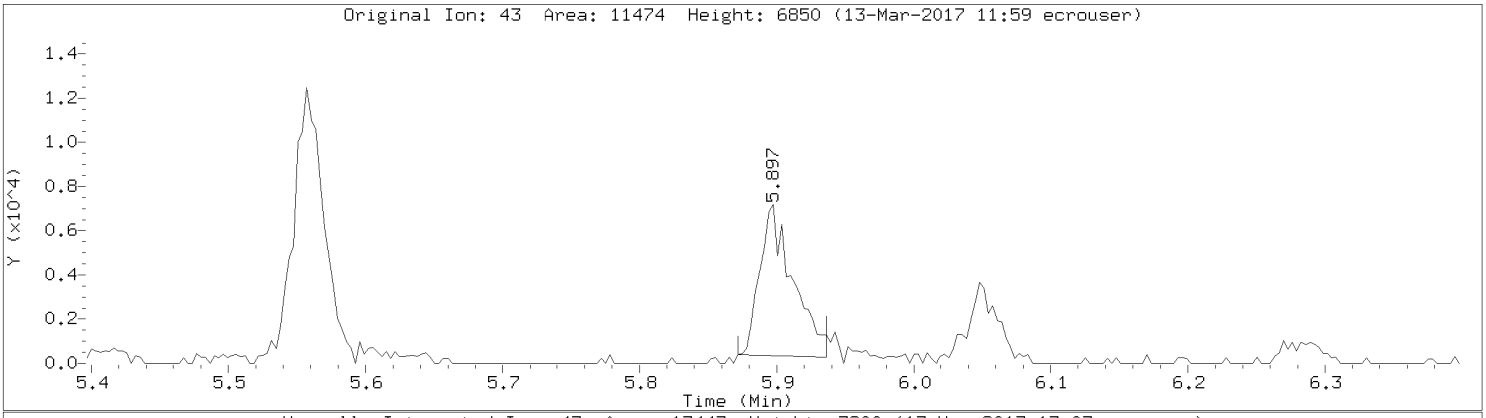


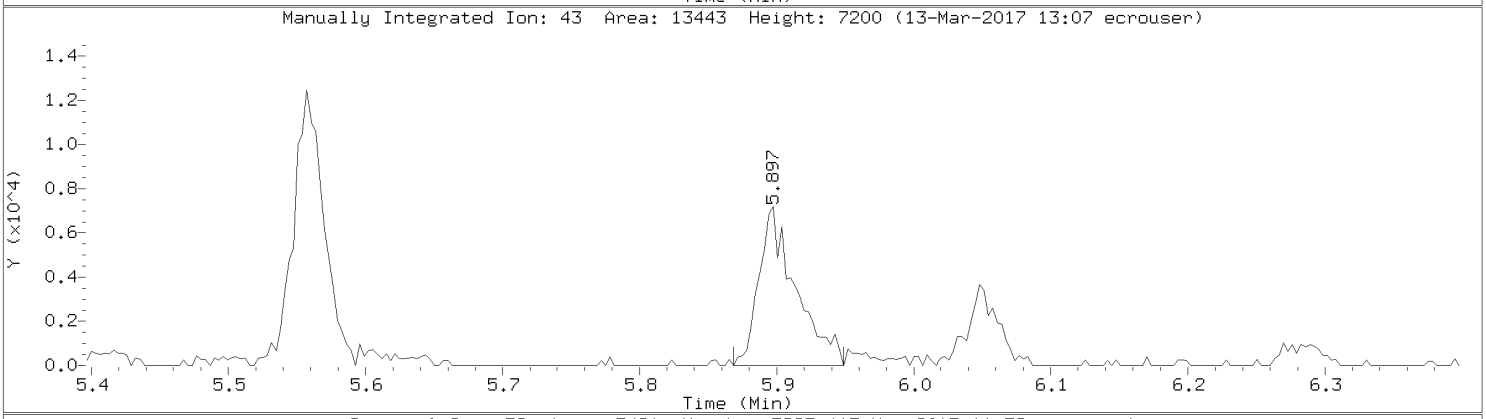
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

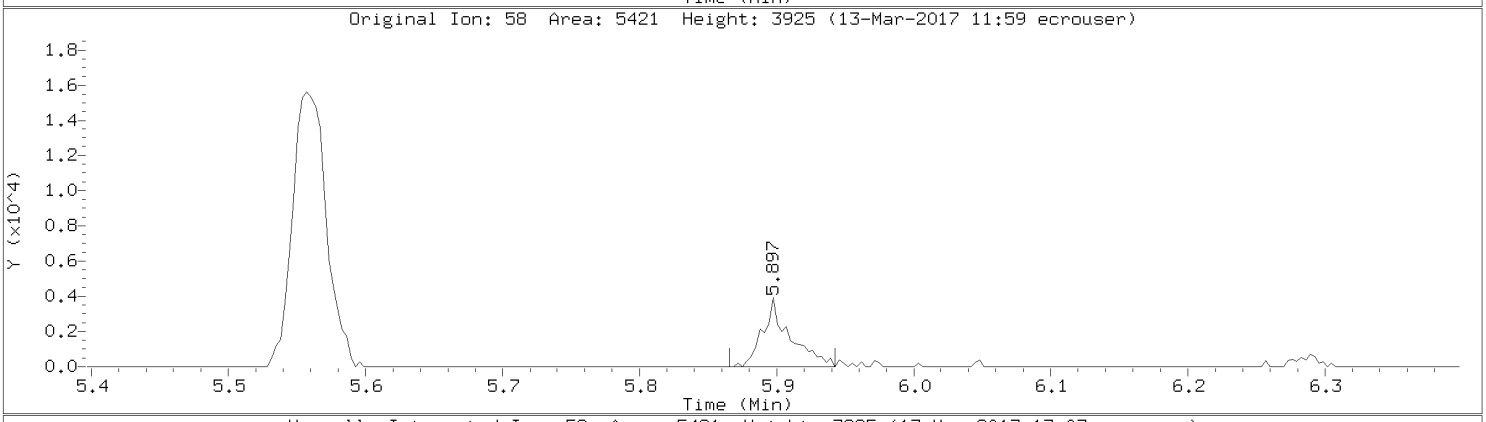


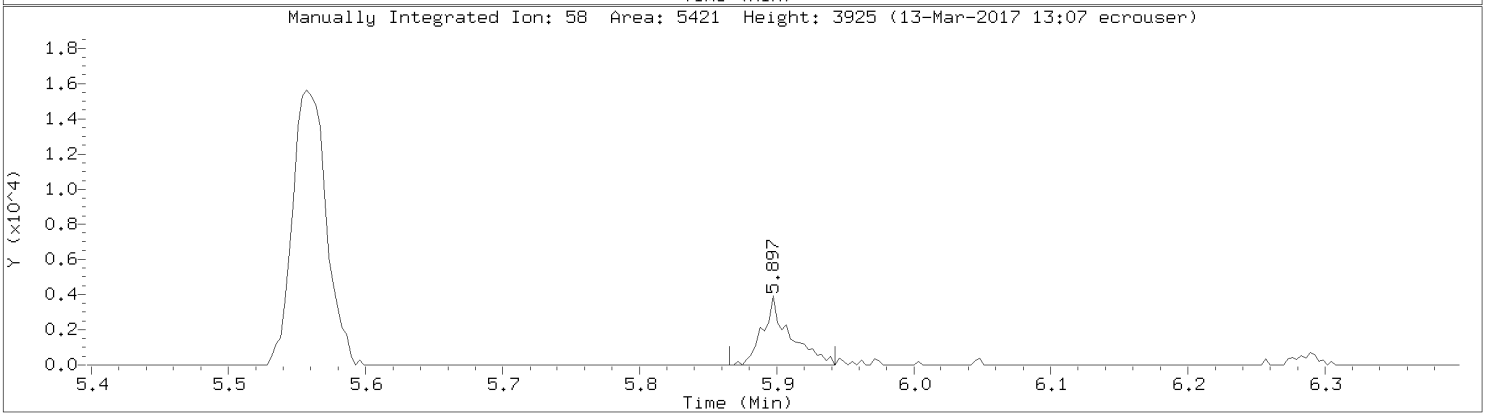
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Methyl Butyl Ketone
CAS Number: 591-78-6



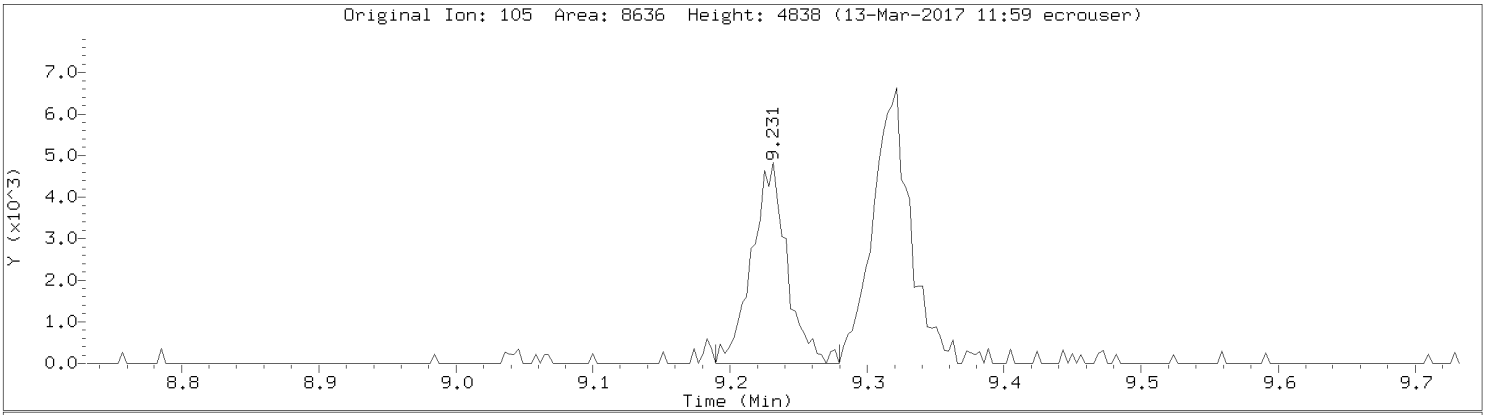


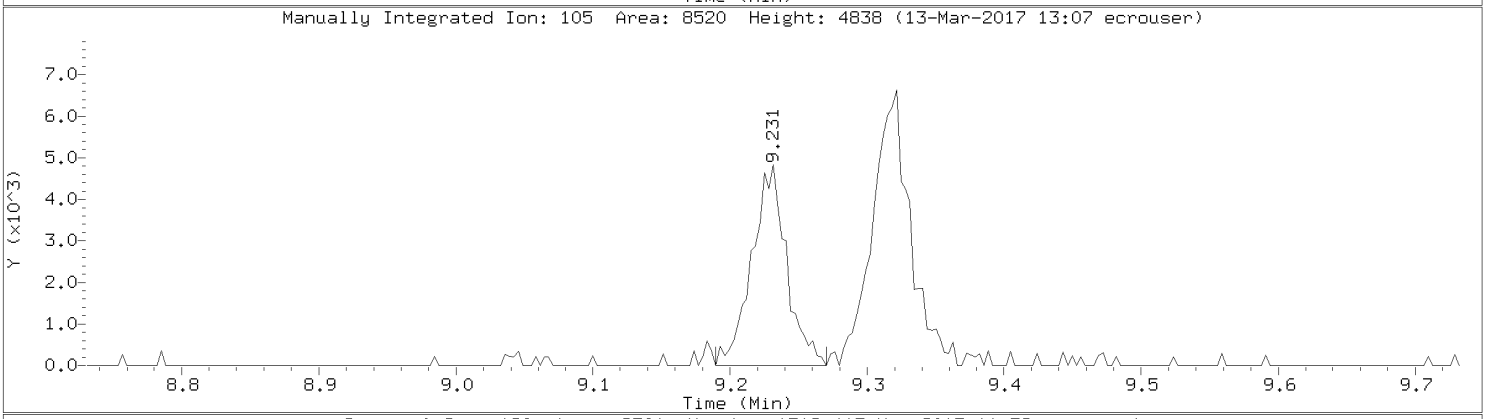


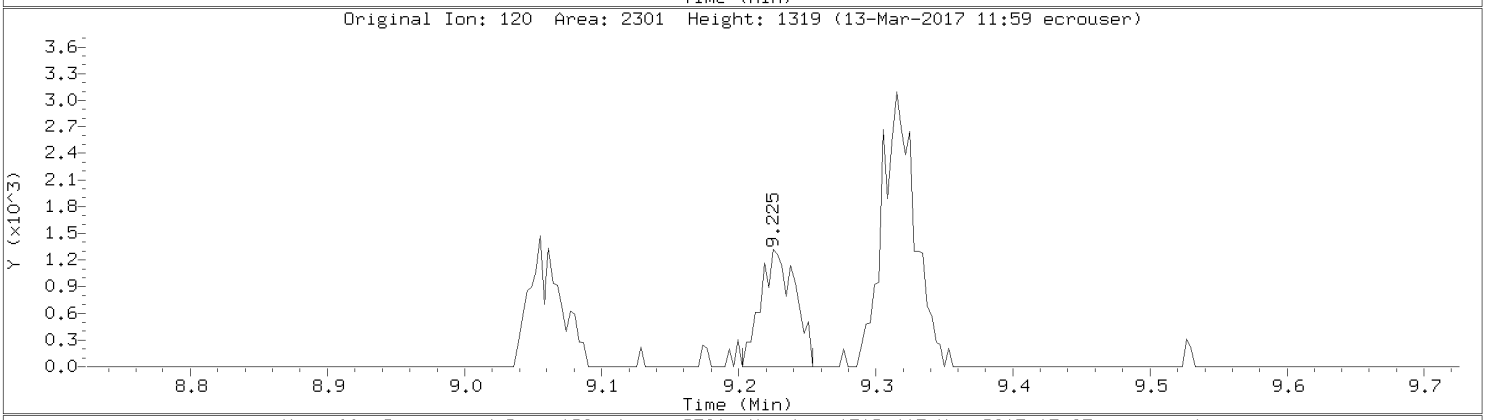


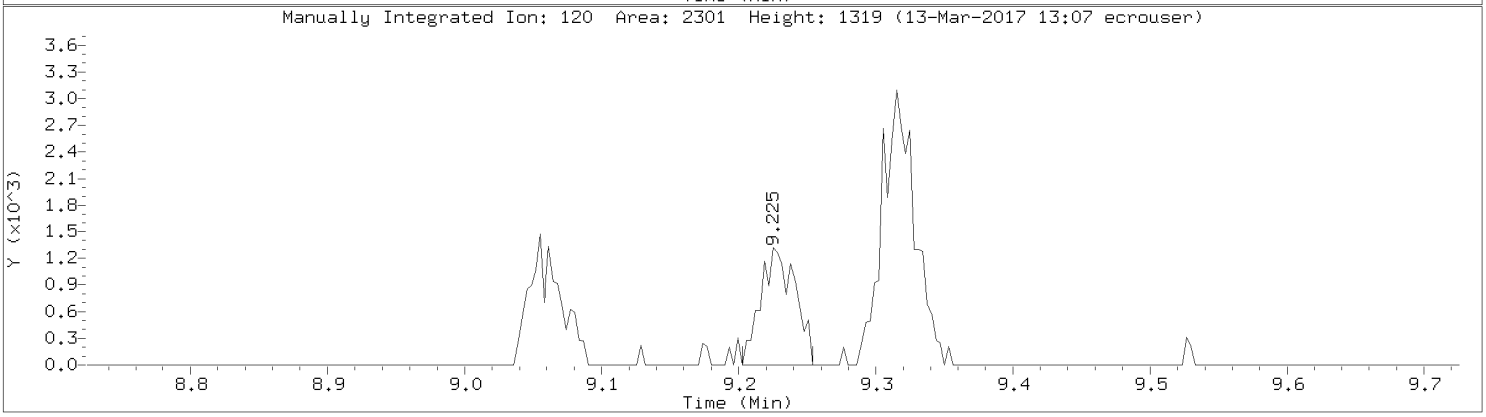
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

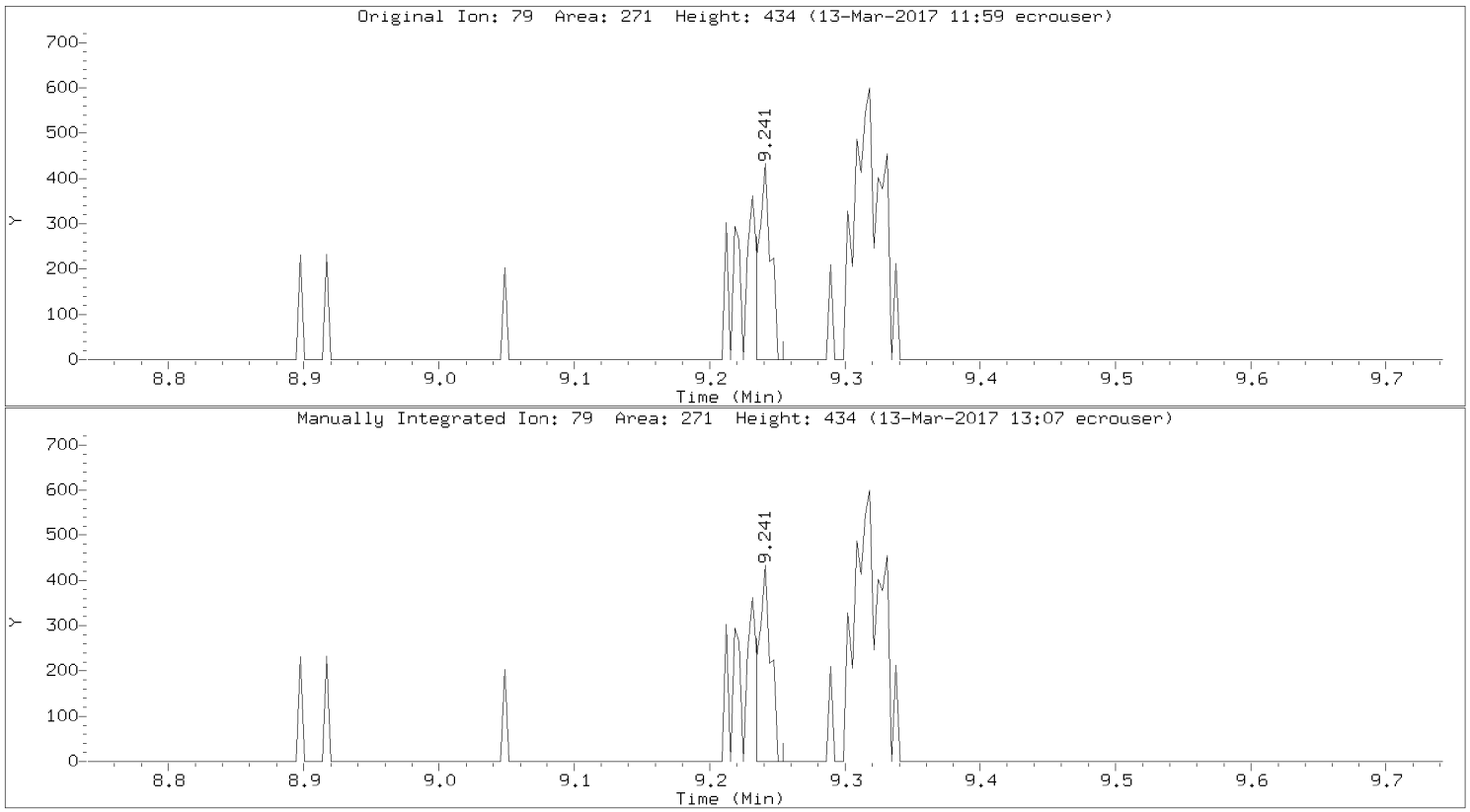






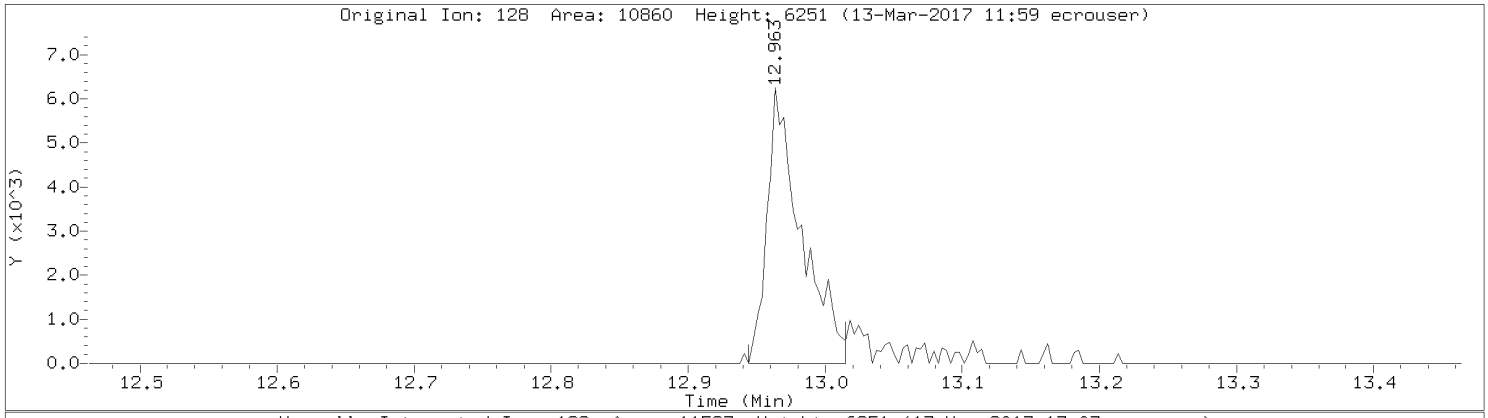


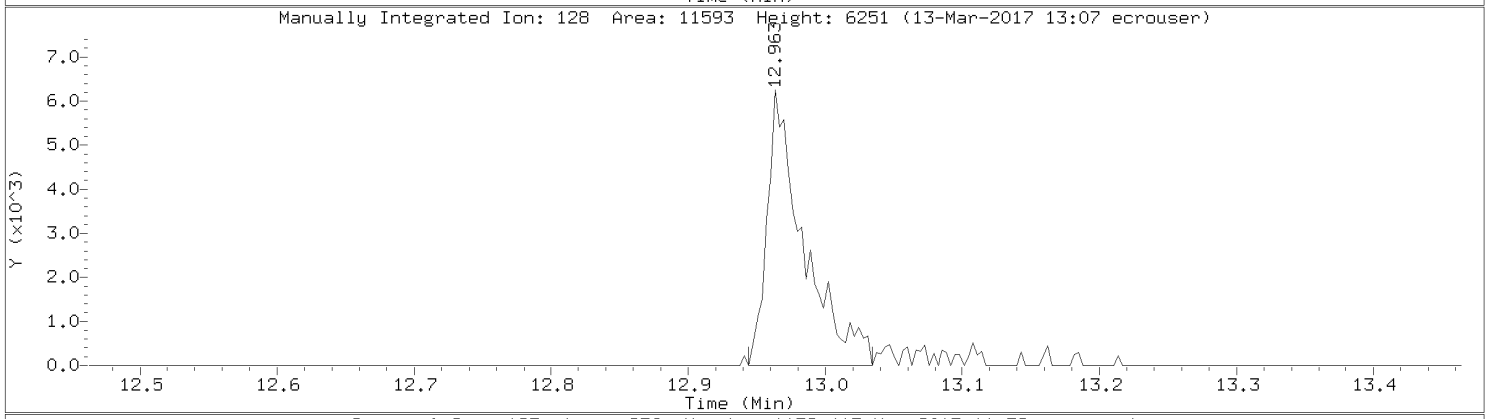
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

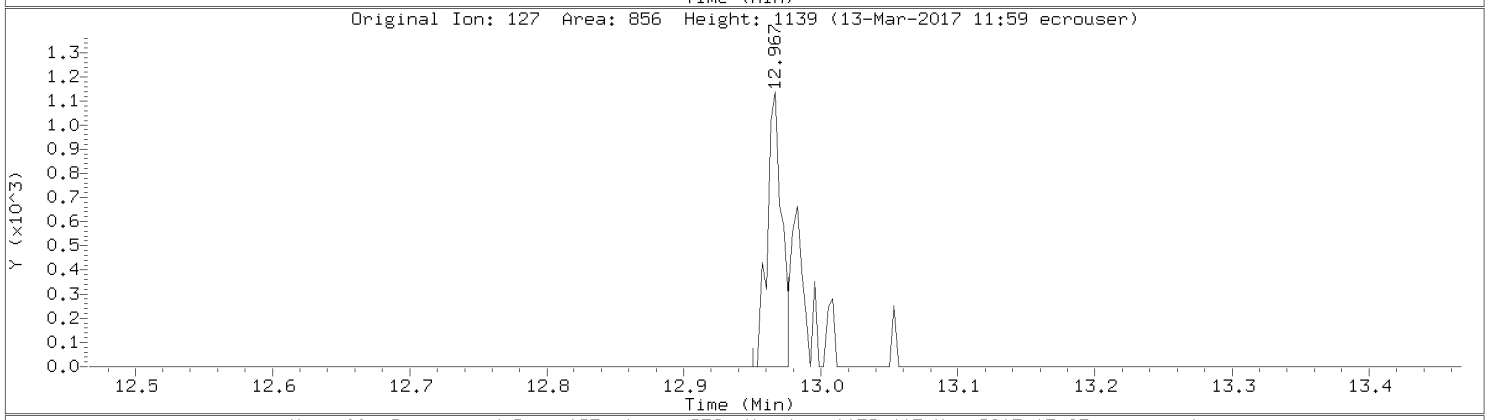


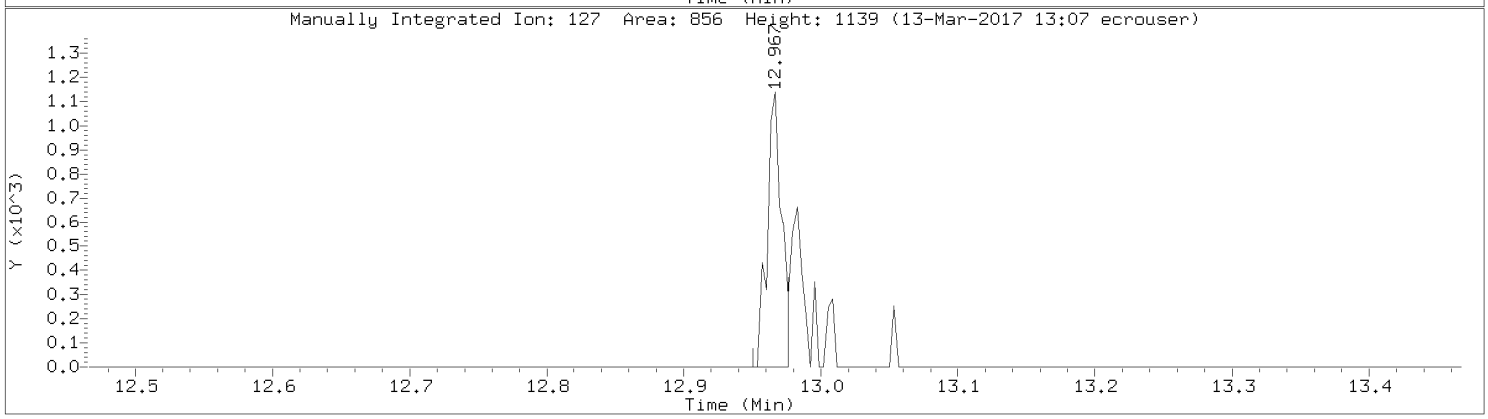
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Naphthalene
CAS Number: 91-20-3



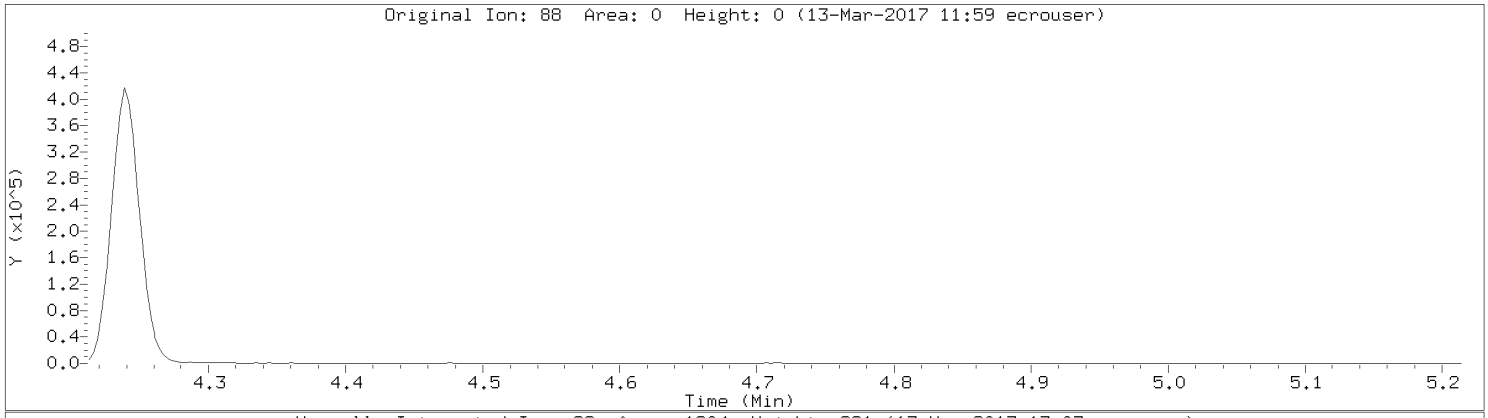


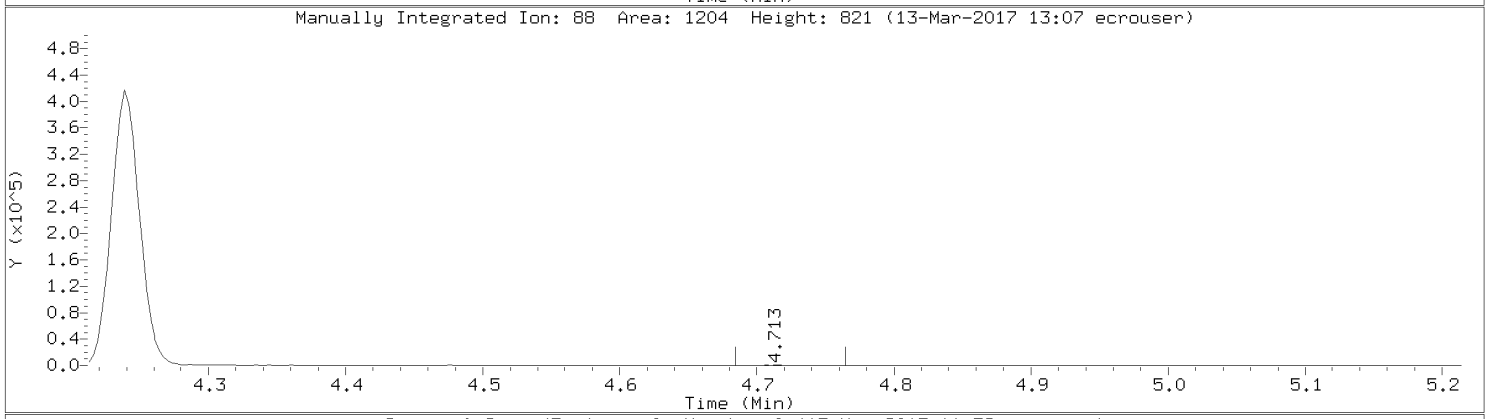


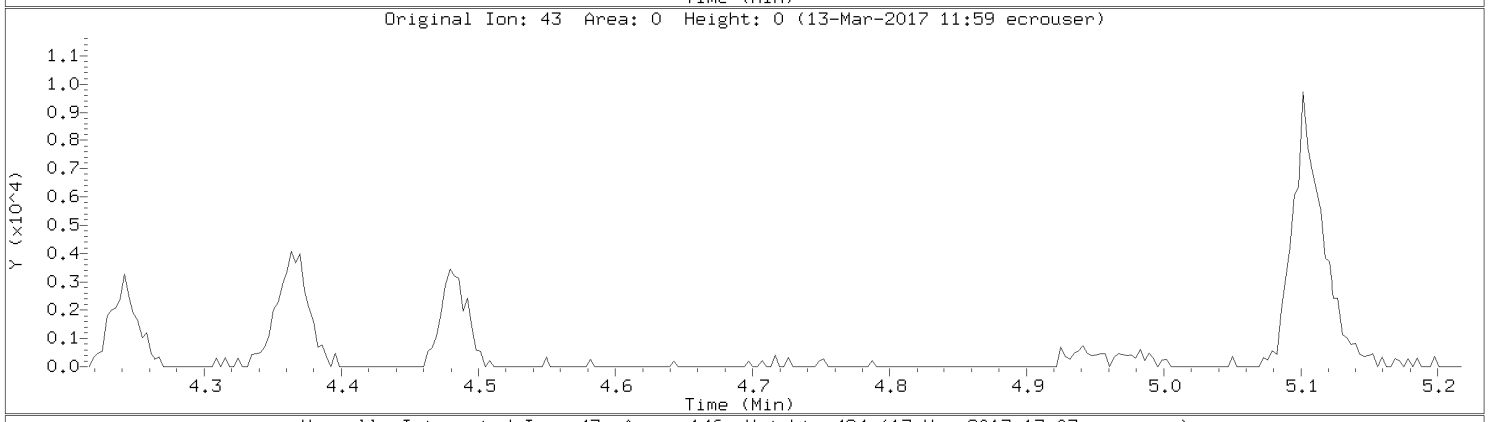


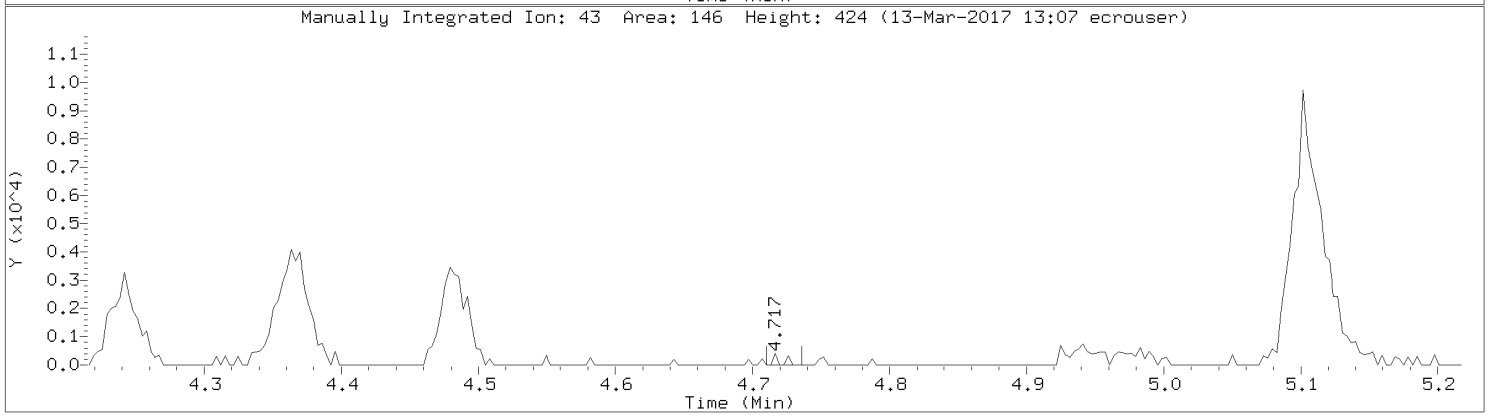
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,4-Dioxane
CAS Number: 123-91-1



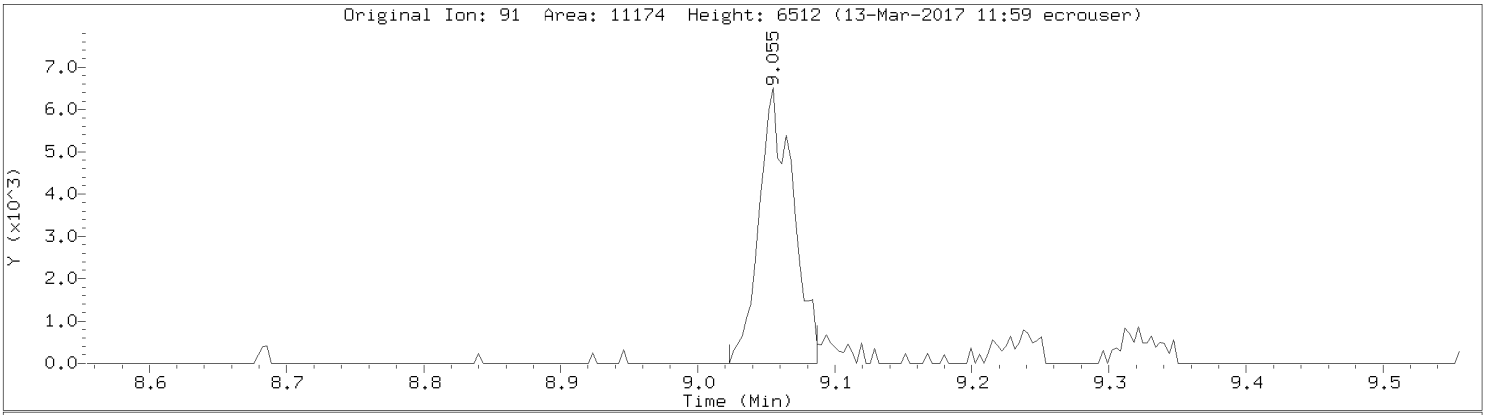


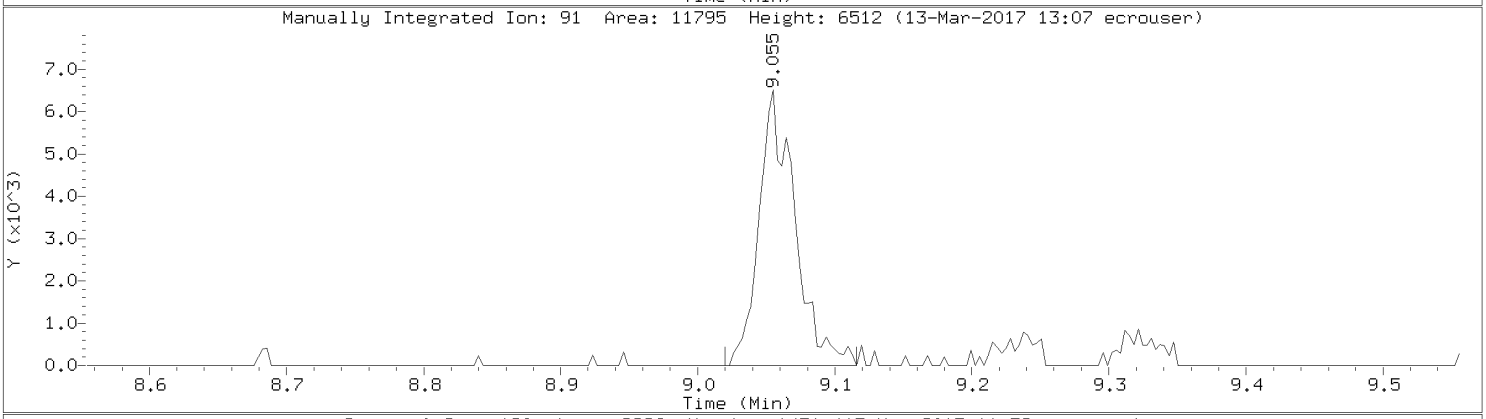


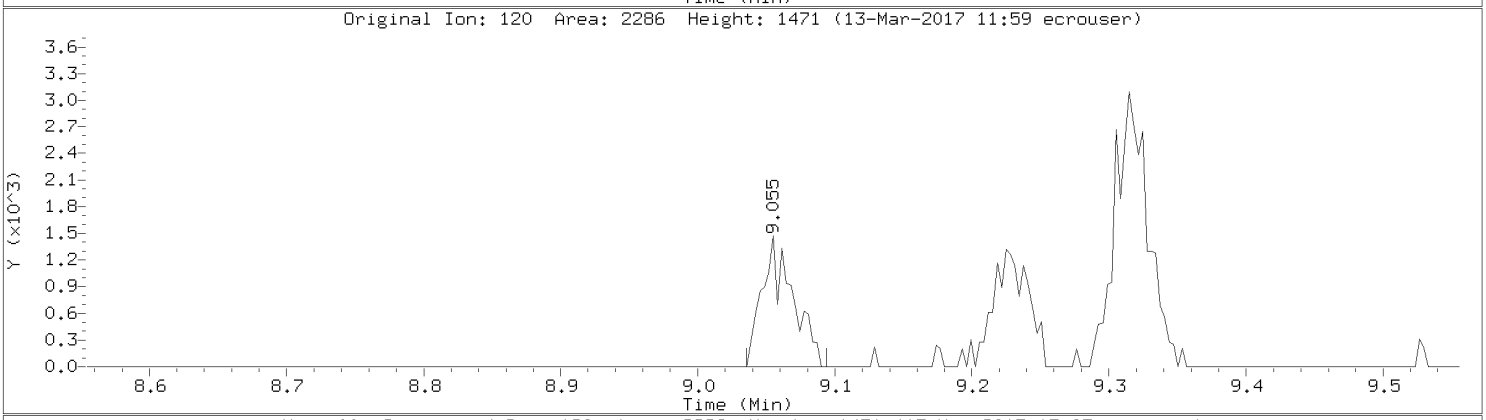


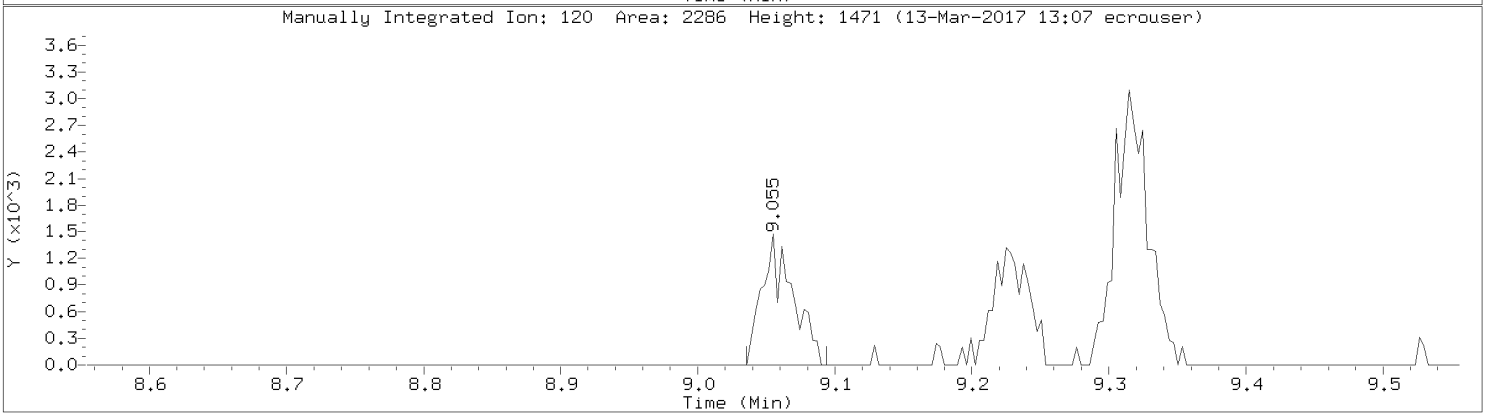
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: N-Propylbenzene
CAS Number: 103-65-1



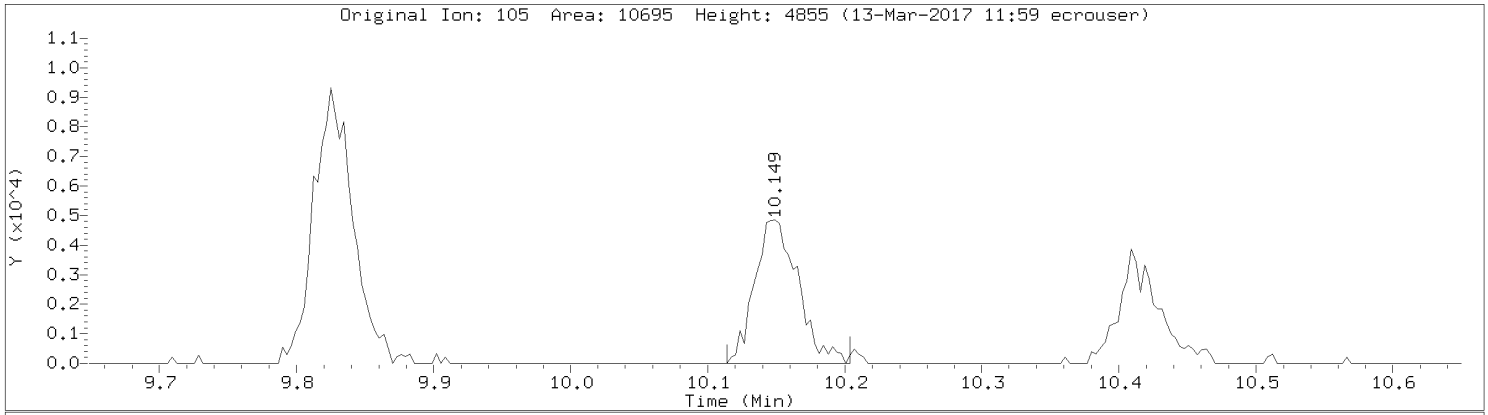


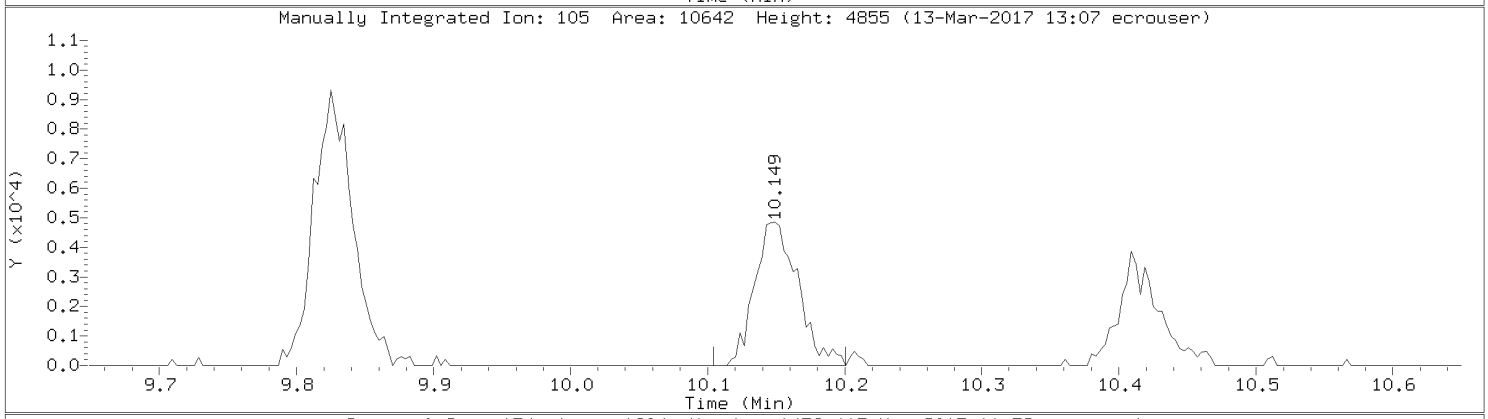


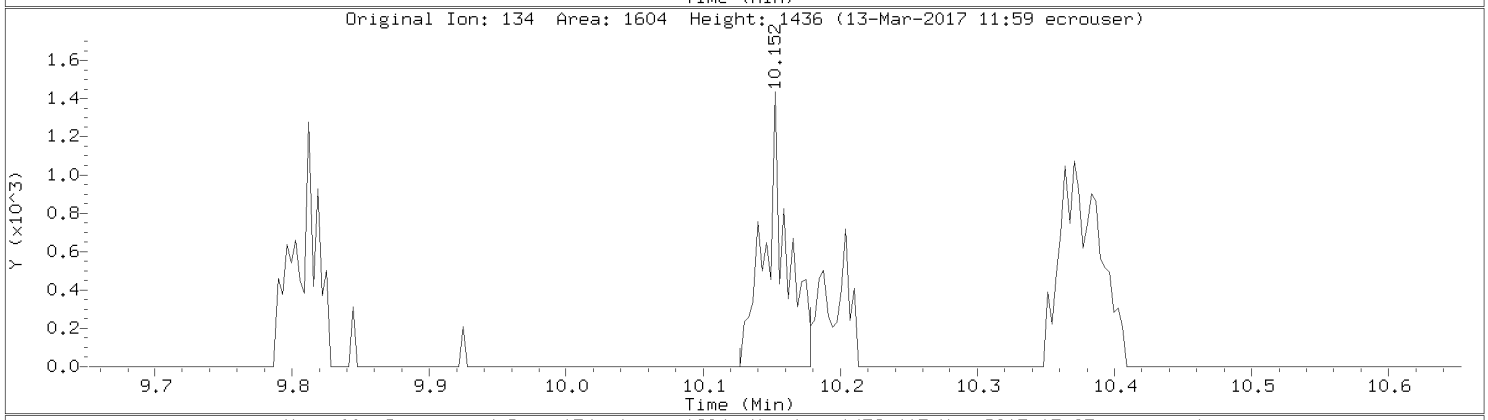


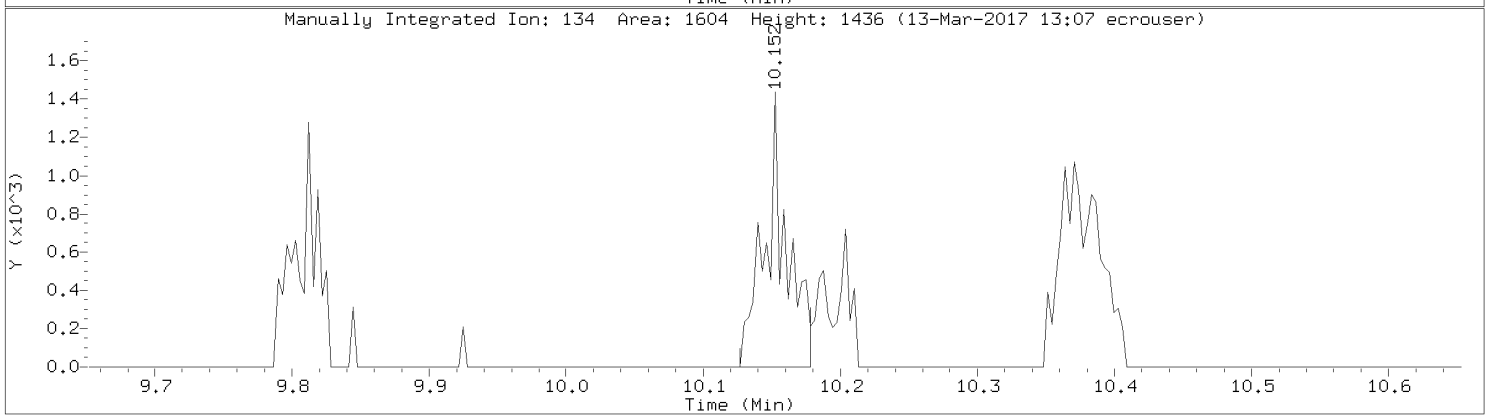
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Sec- Butylbenzene
CAS Number: 135-98-8



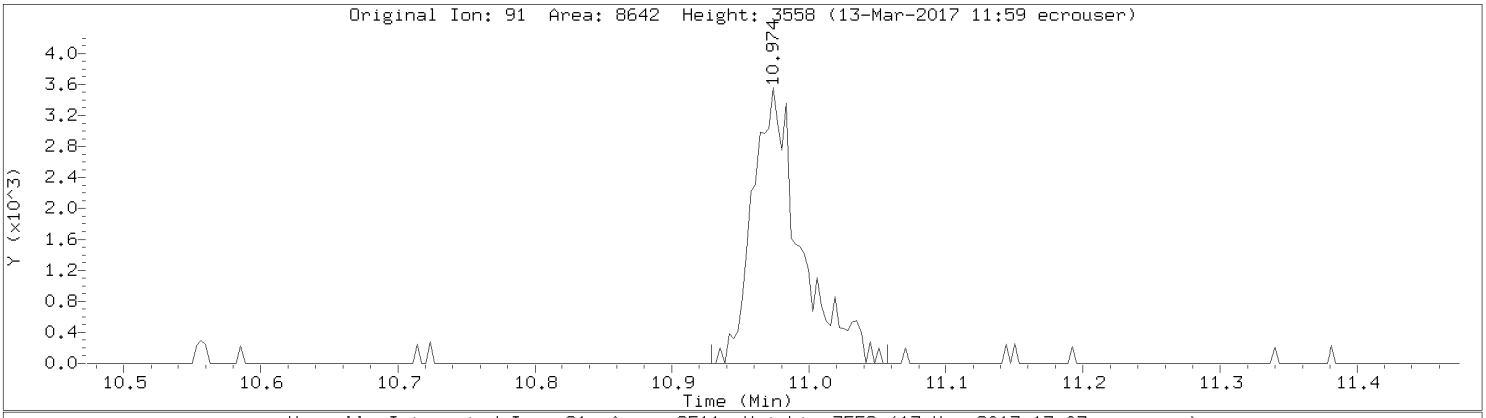


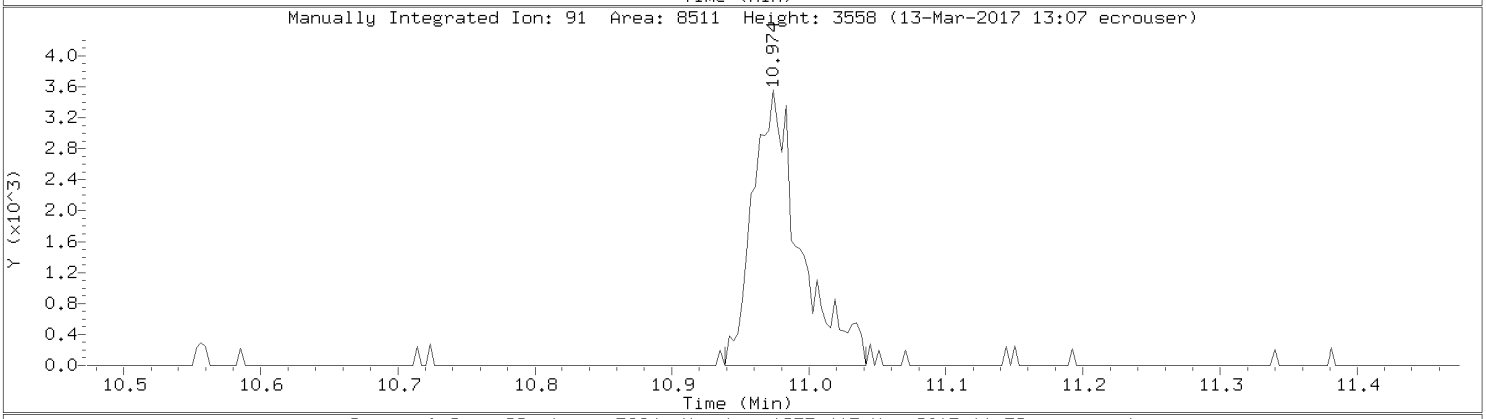


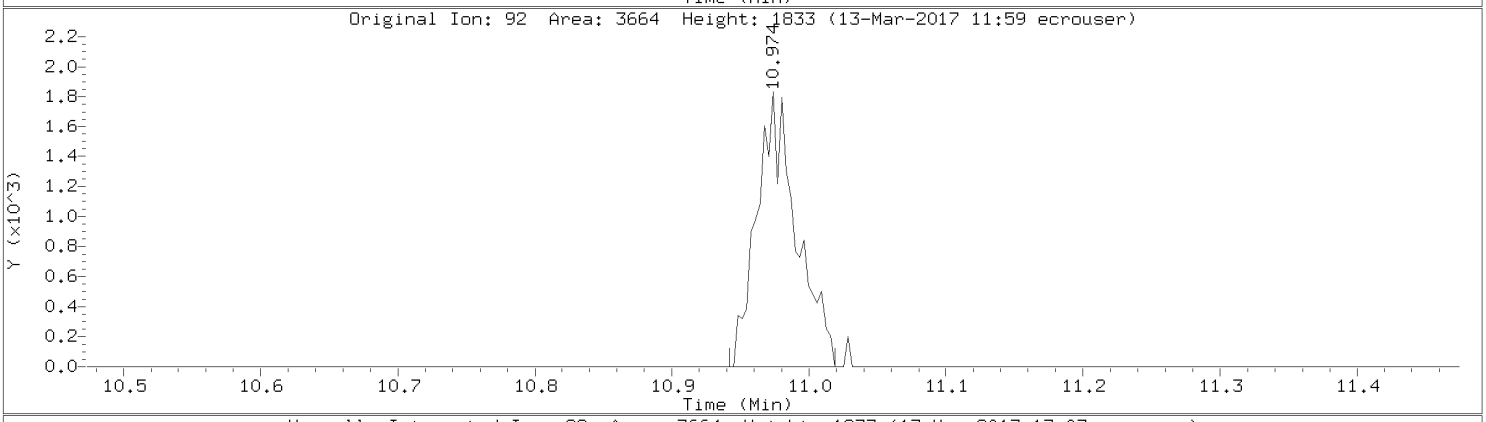


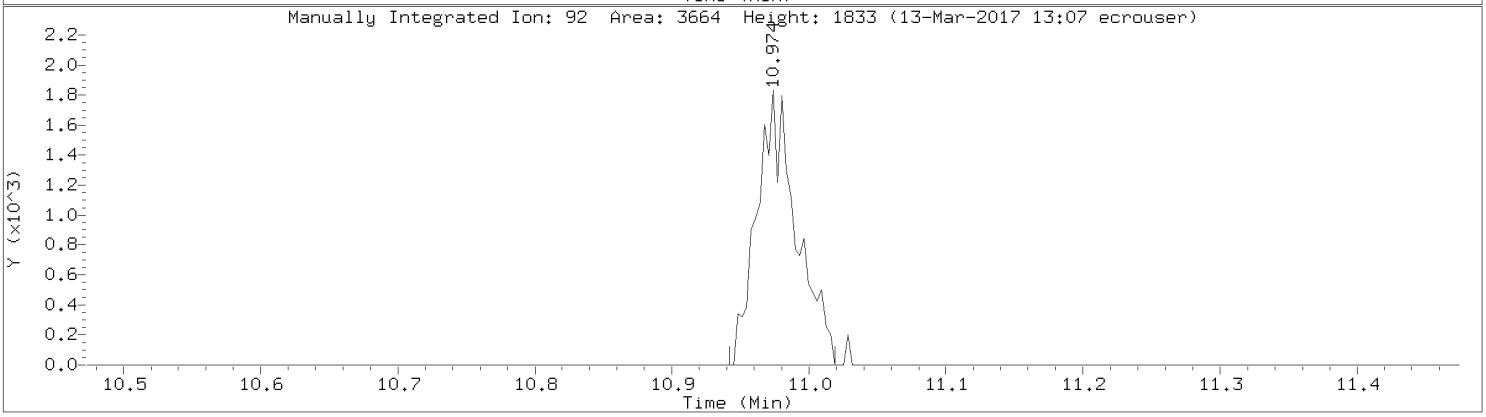
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: N-Butylbenzene
CAS Number: 104-51-8



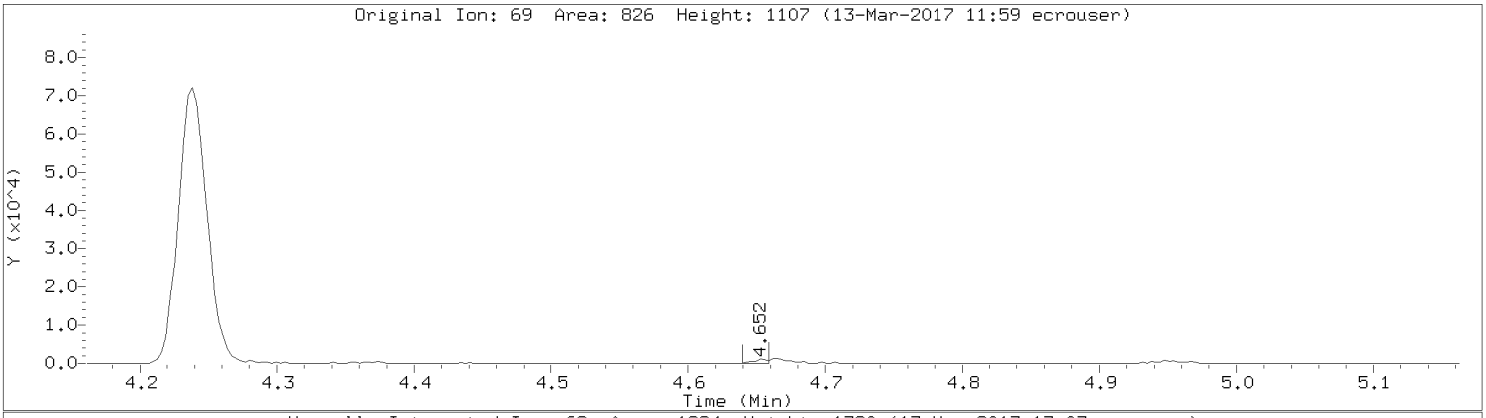


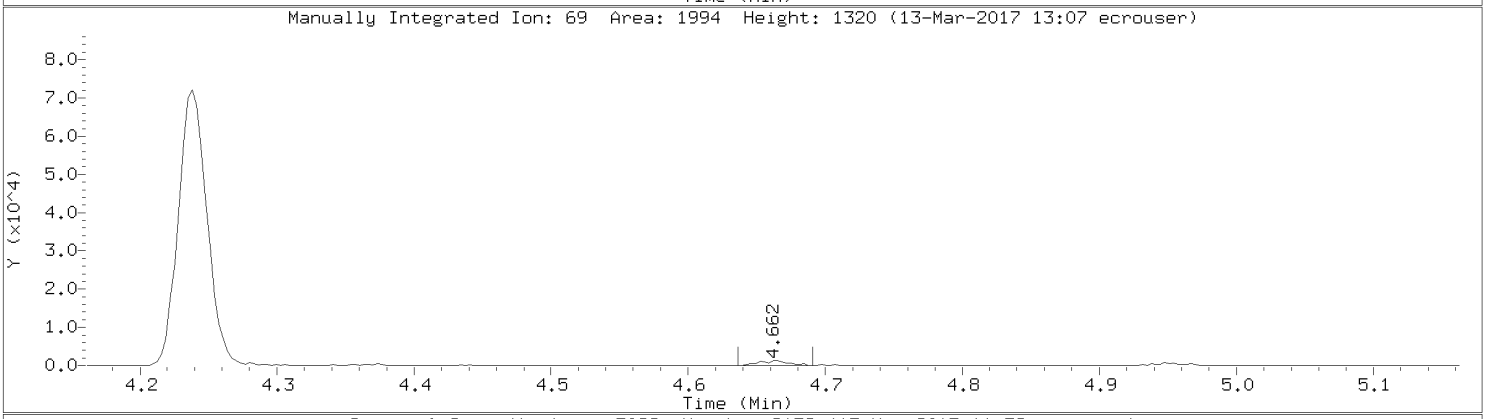


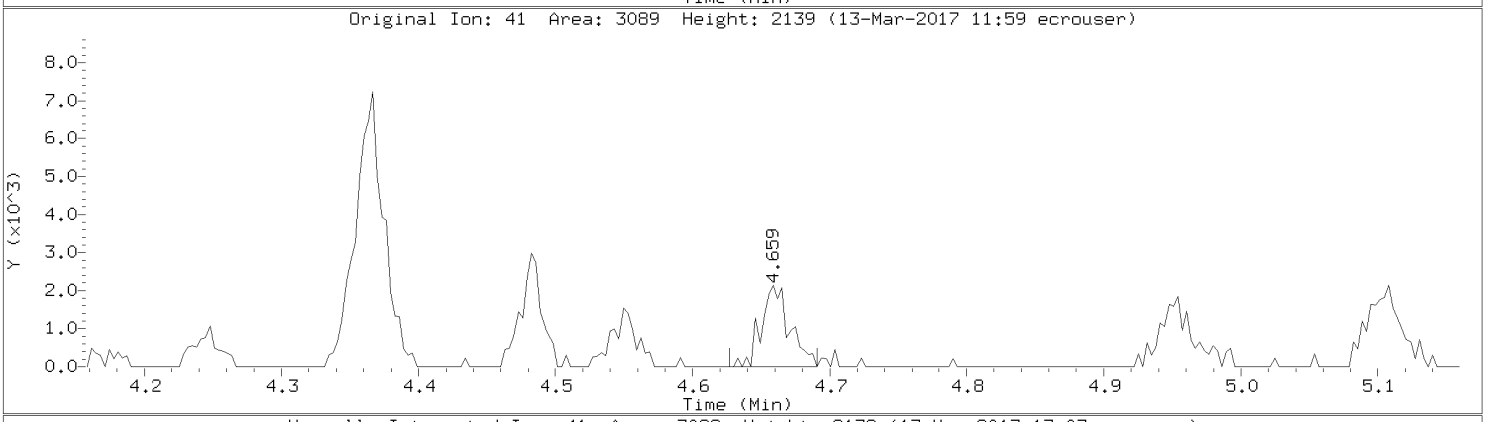


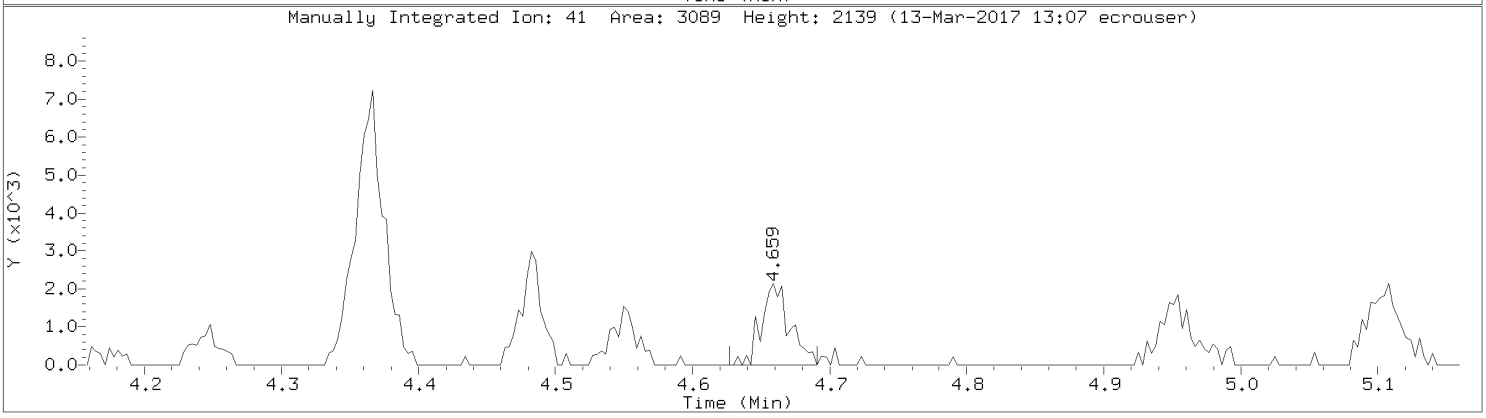
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Methyl methacrylate
CAS Number: 80-62-6



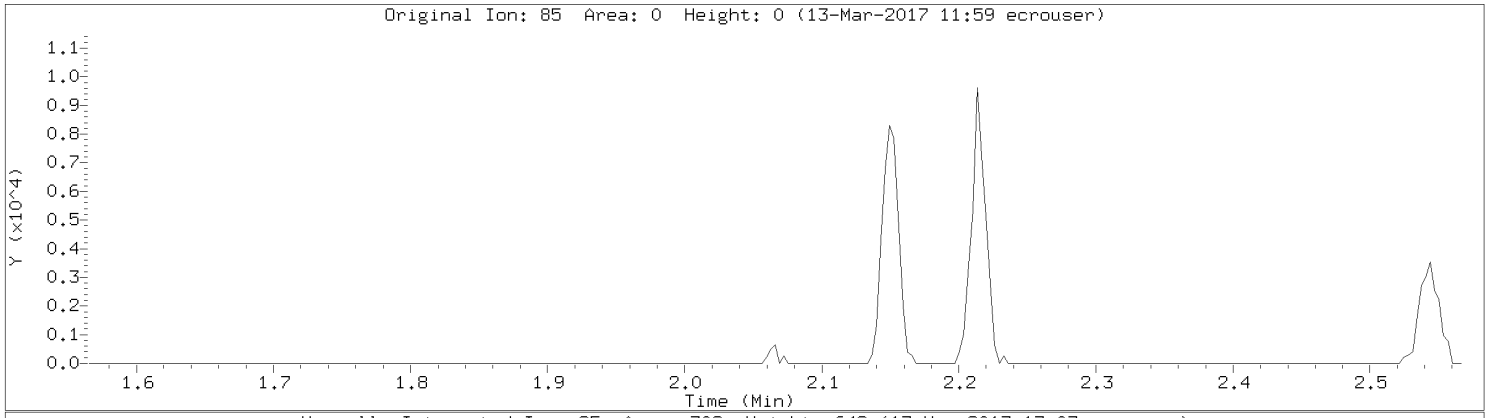


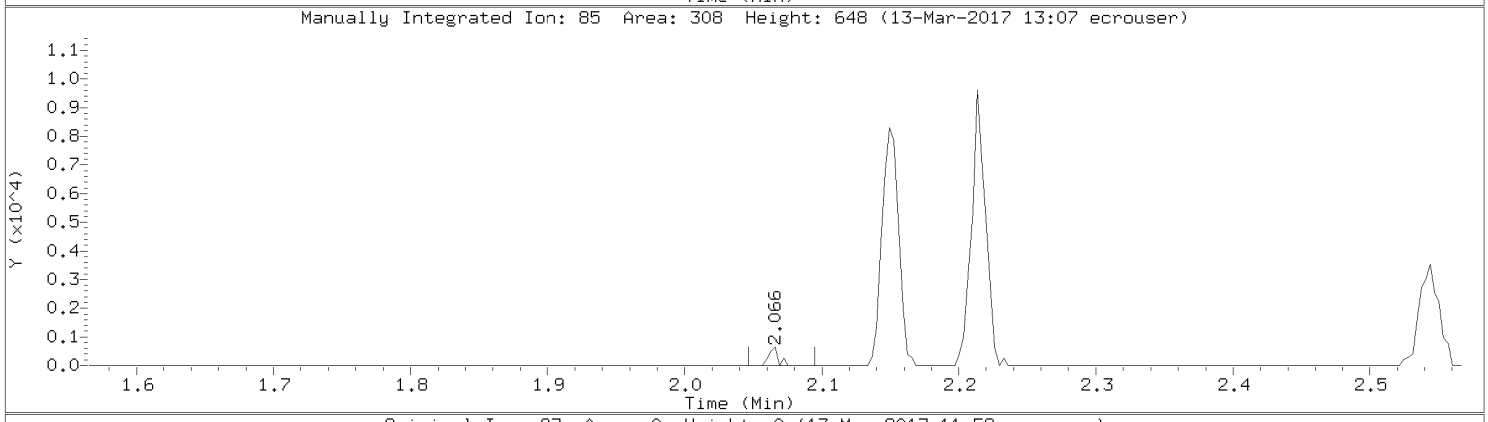


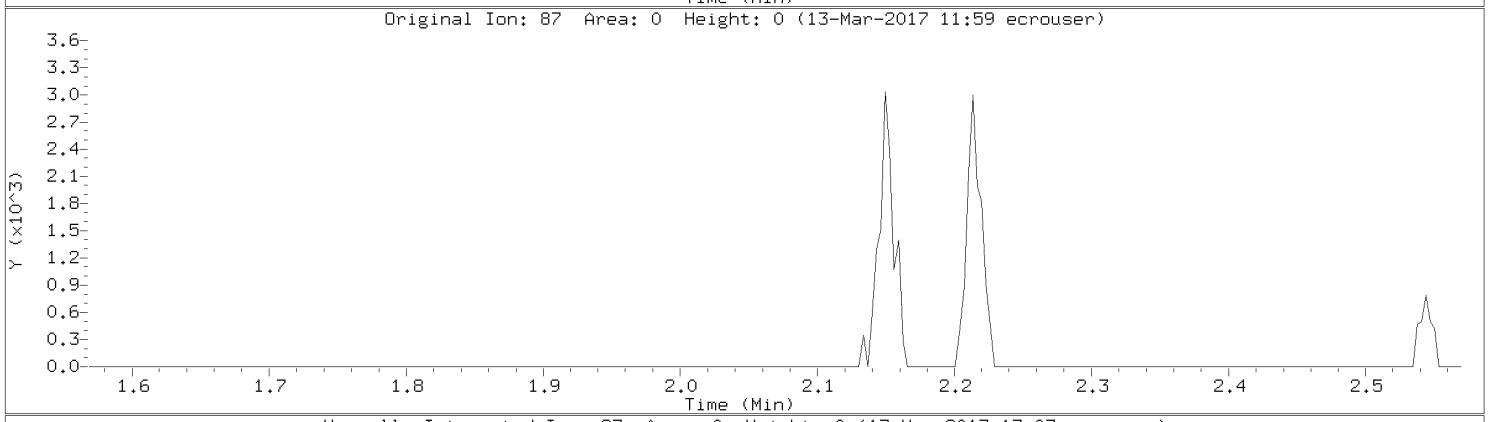


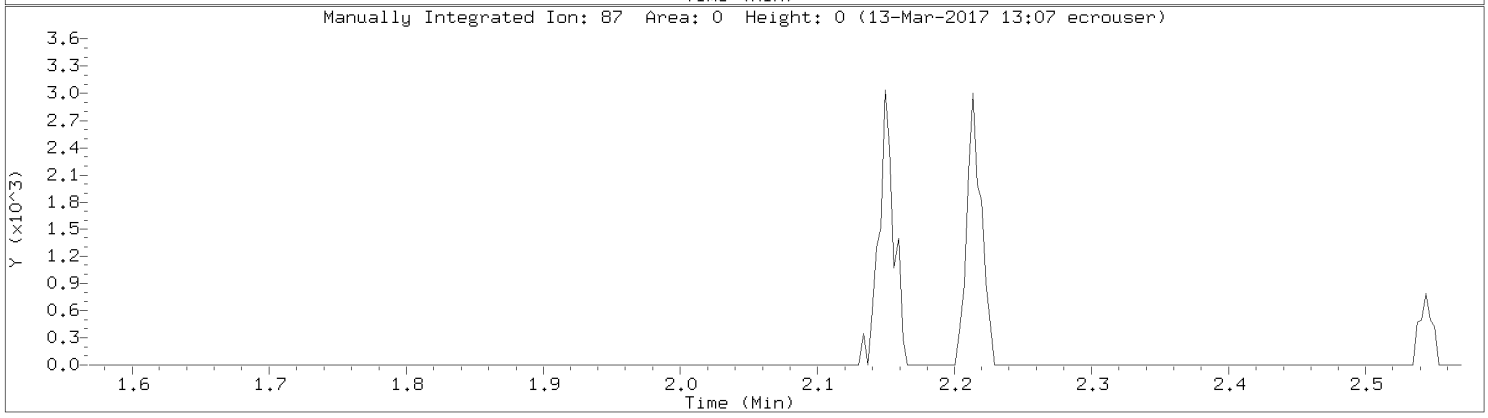
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Chloropentafluoroethane
CAS Number: 75-00-3

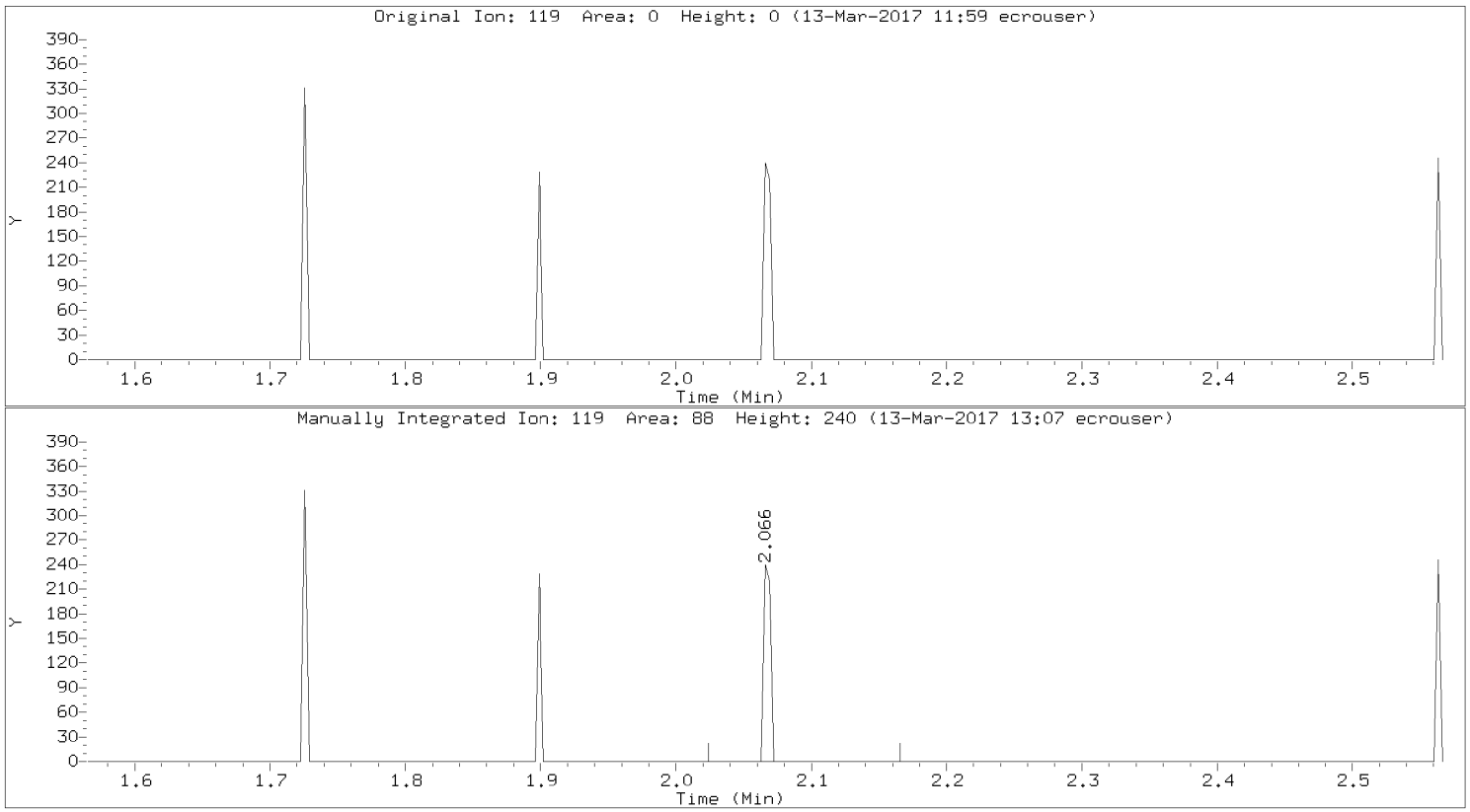






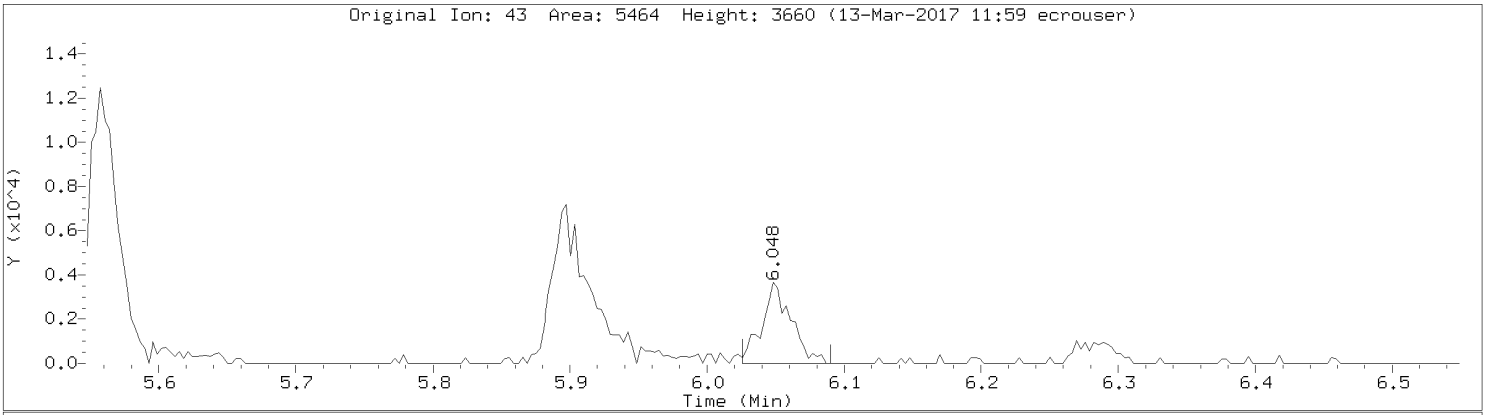


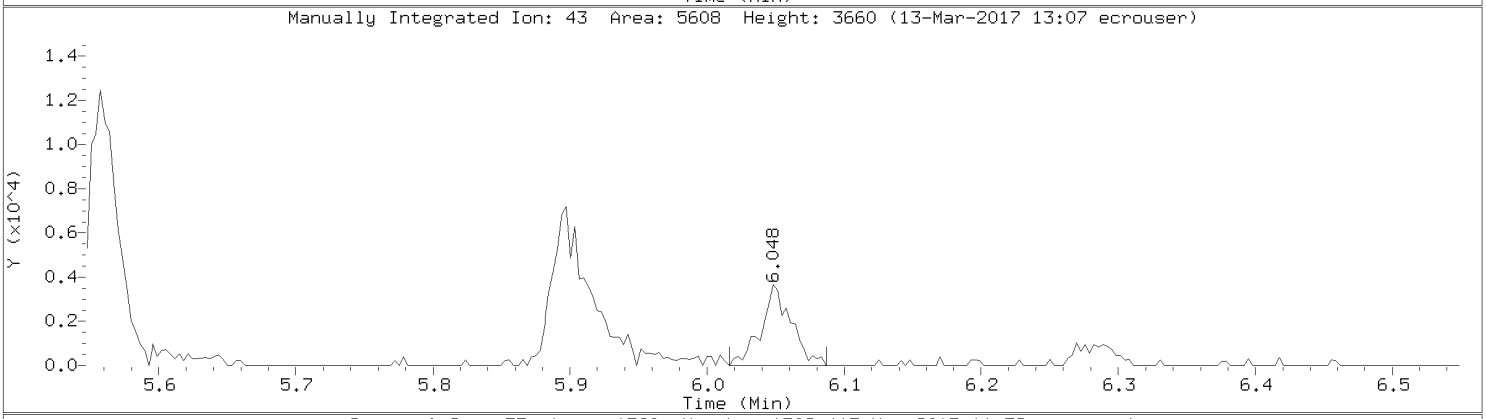
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

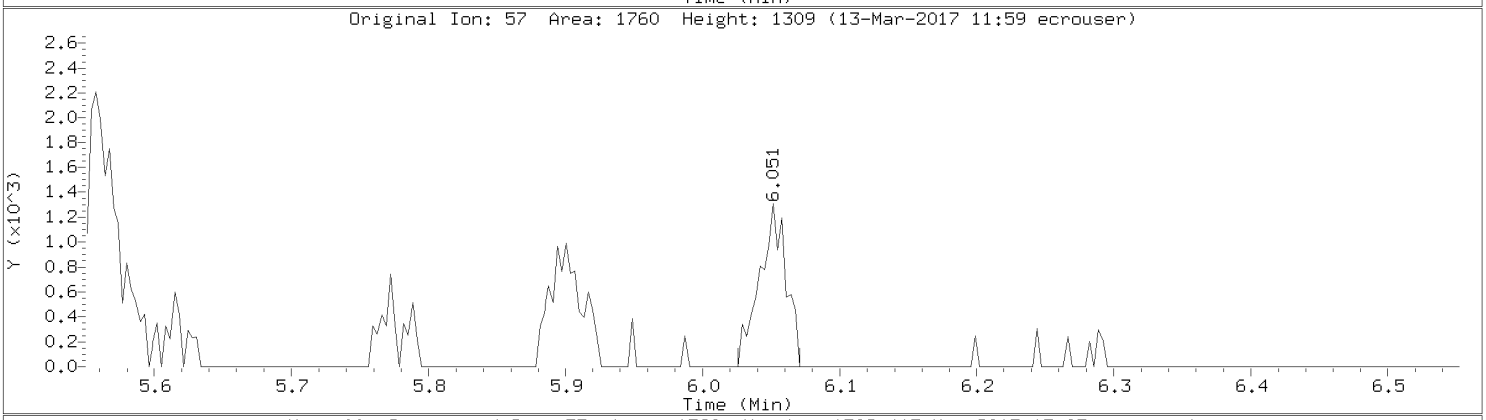


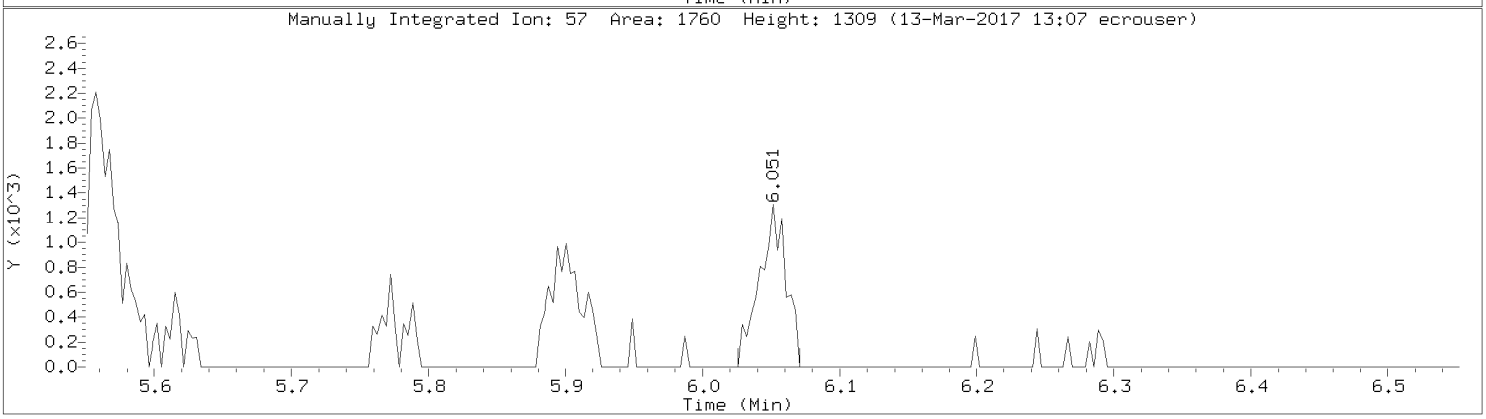
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: n-Octane
CAS Number: 111-65-9

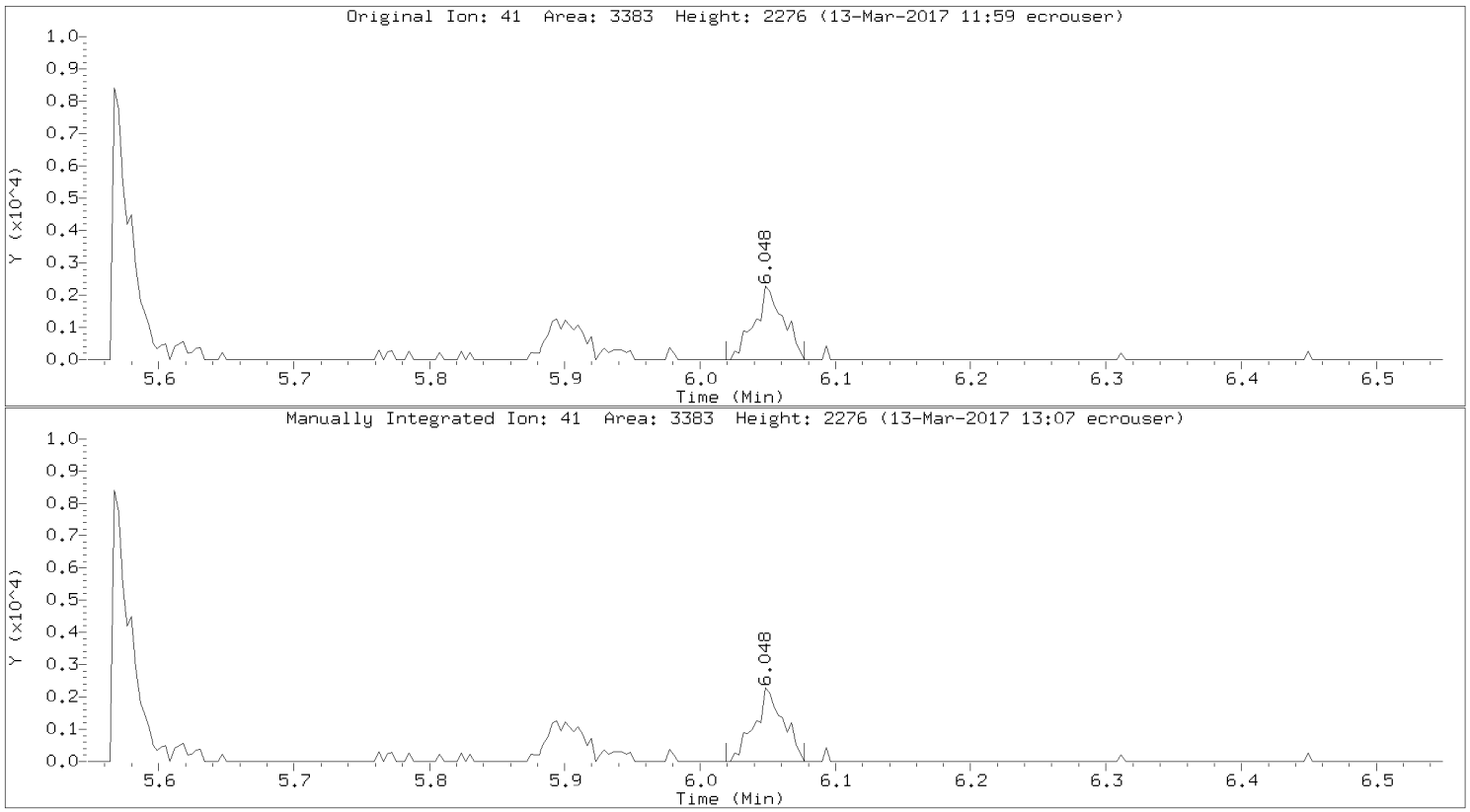






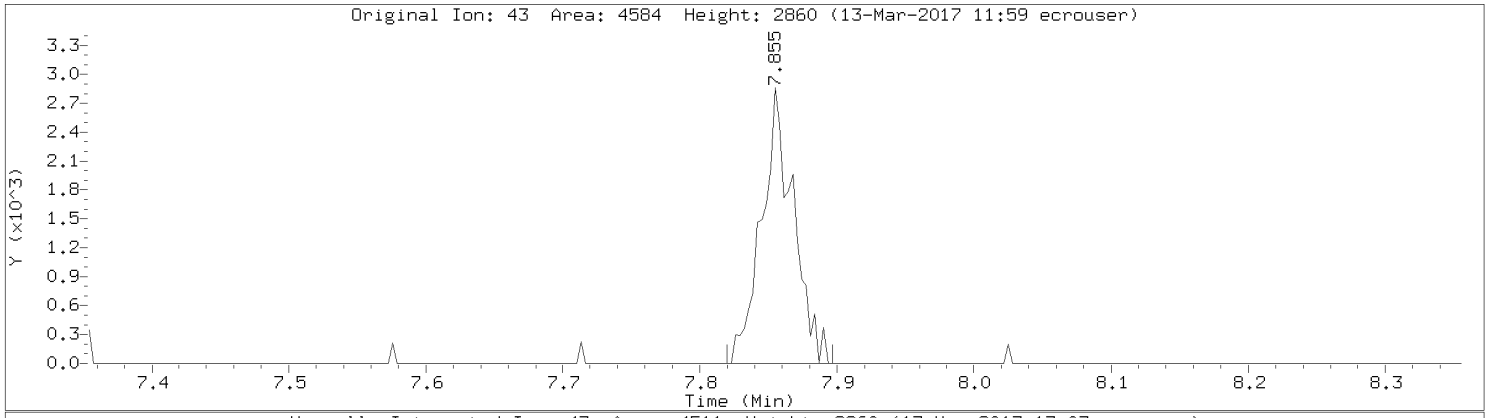


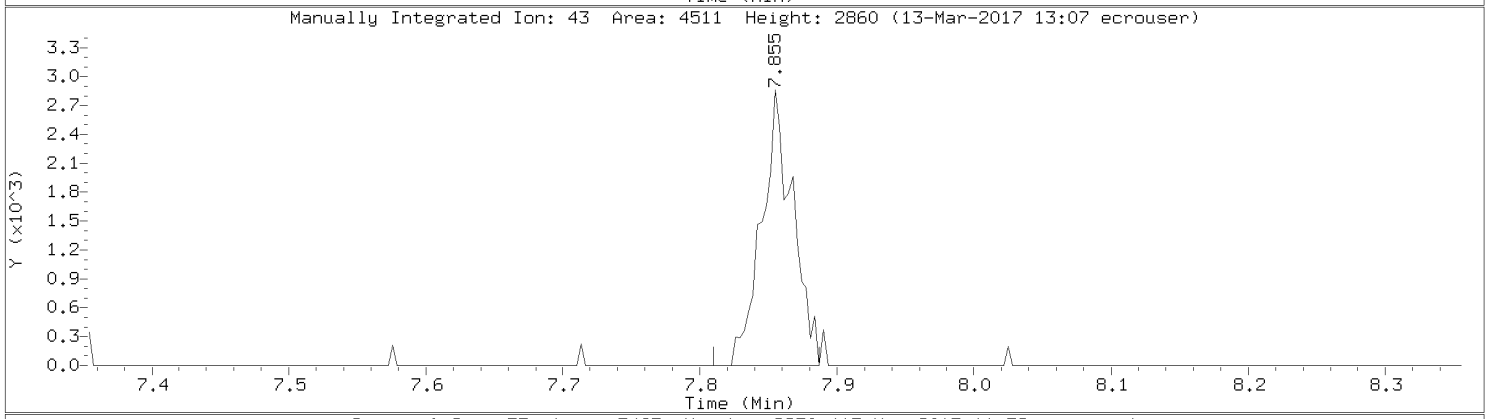
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

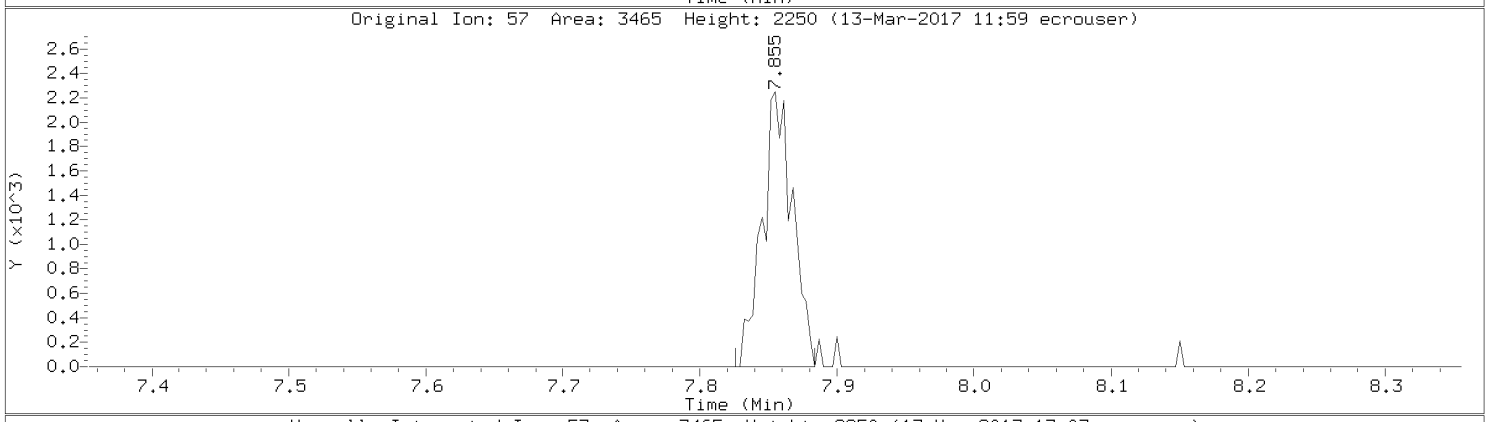


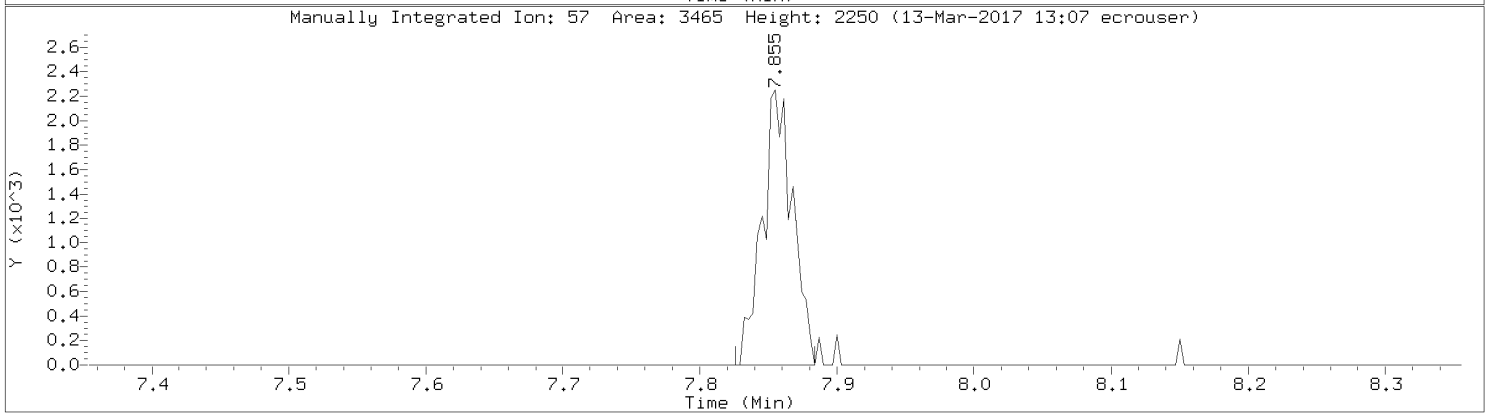
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: n-Nonane
CAS Number: 111-84-2

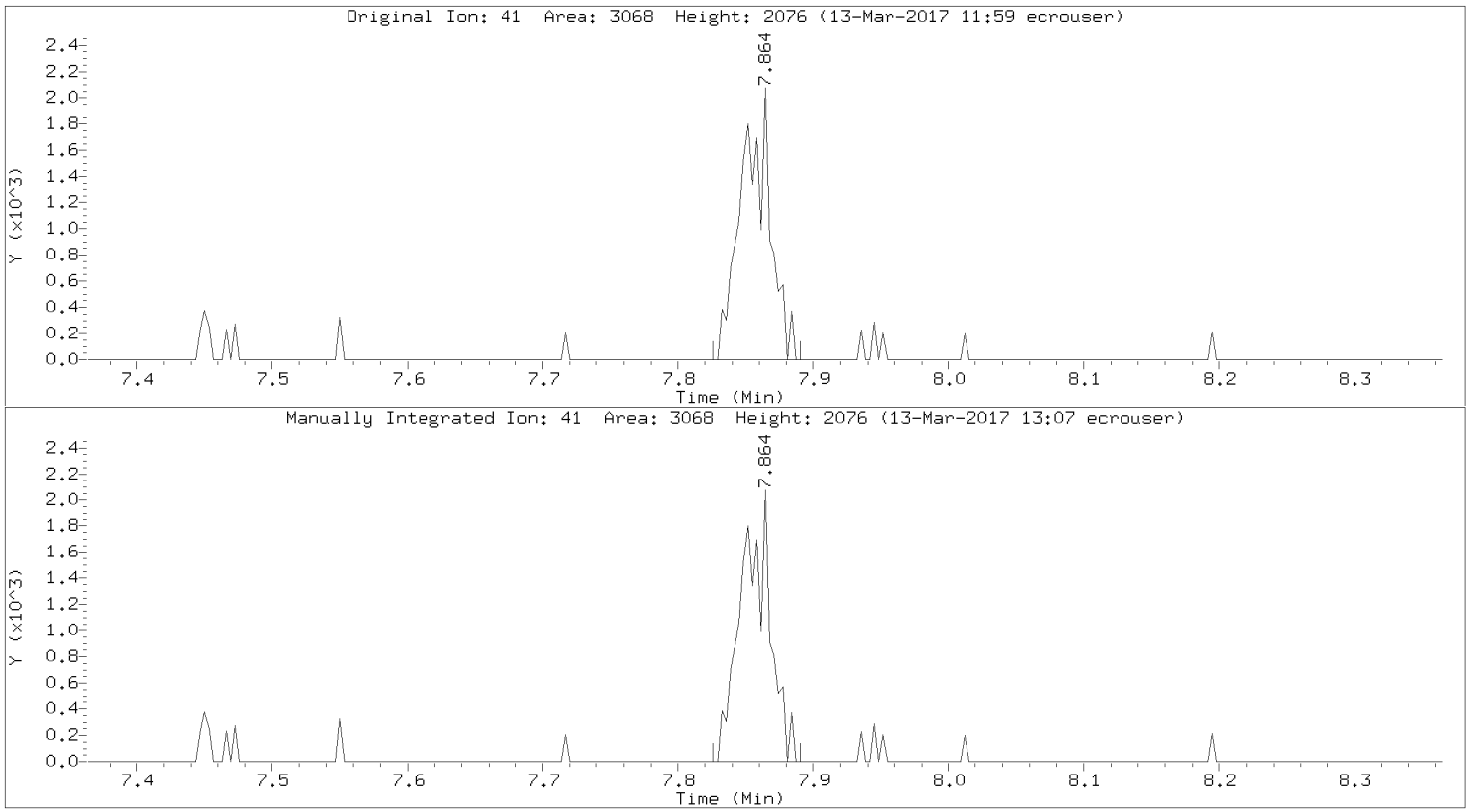






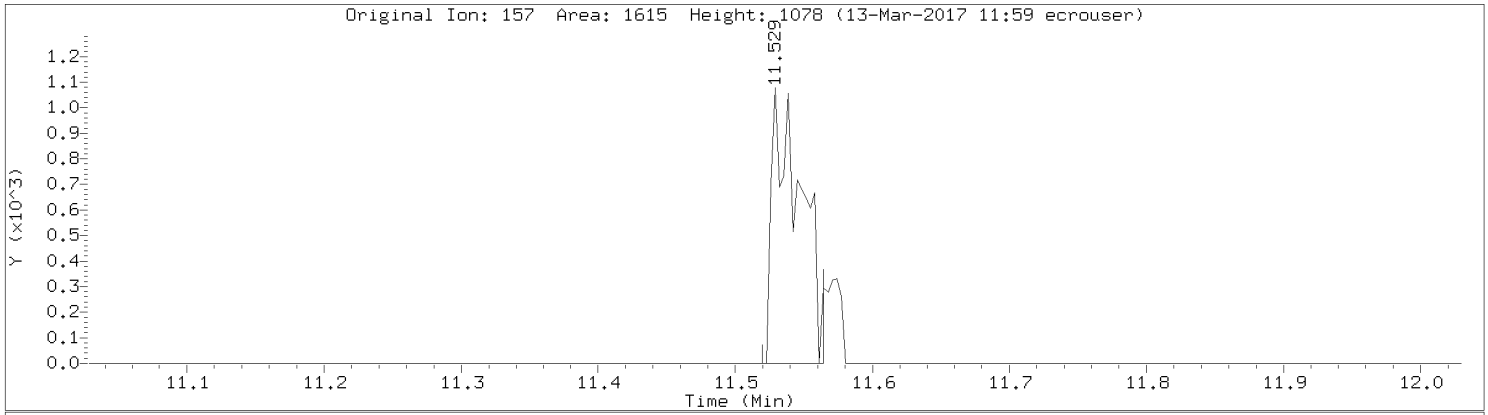


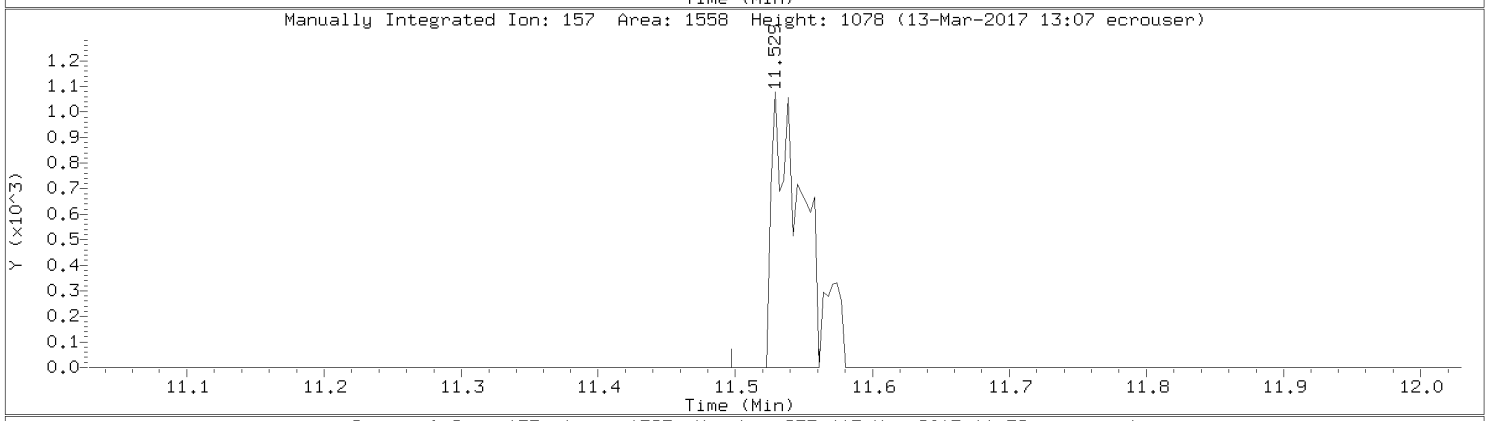
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

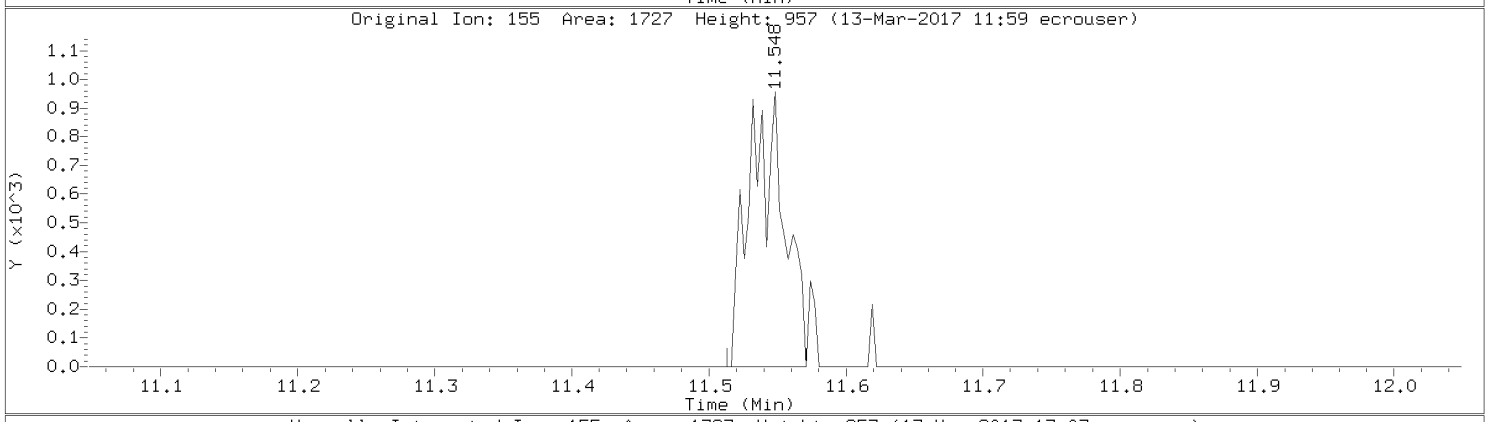


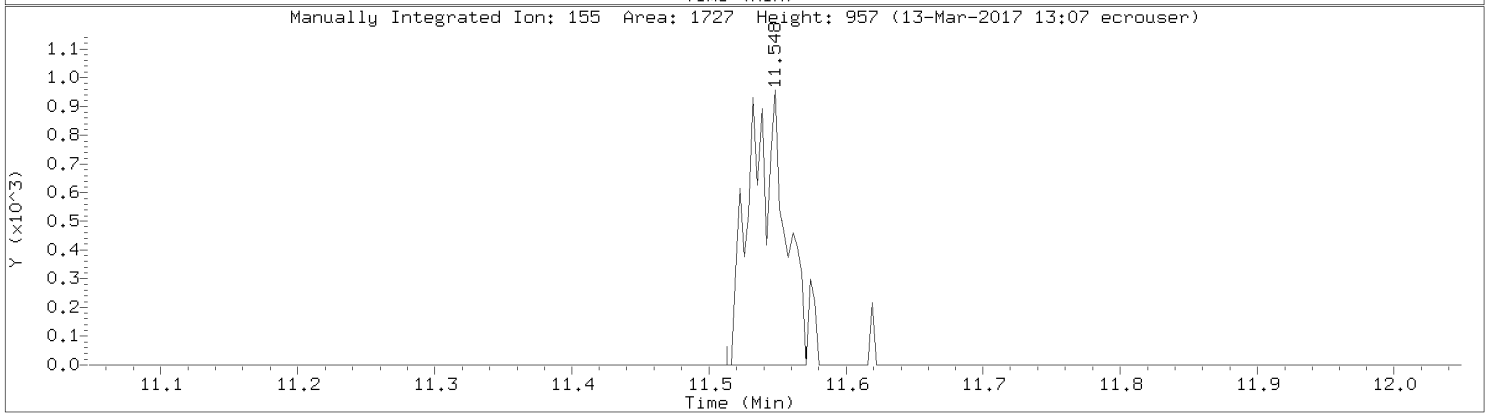
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

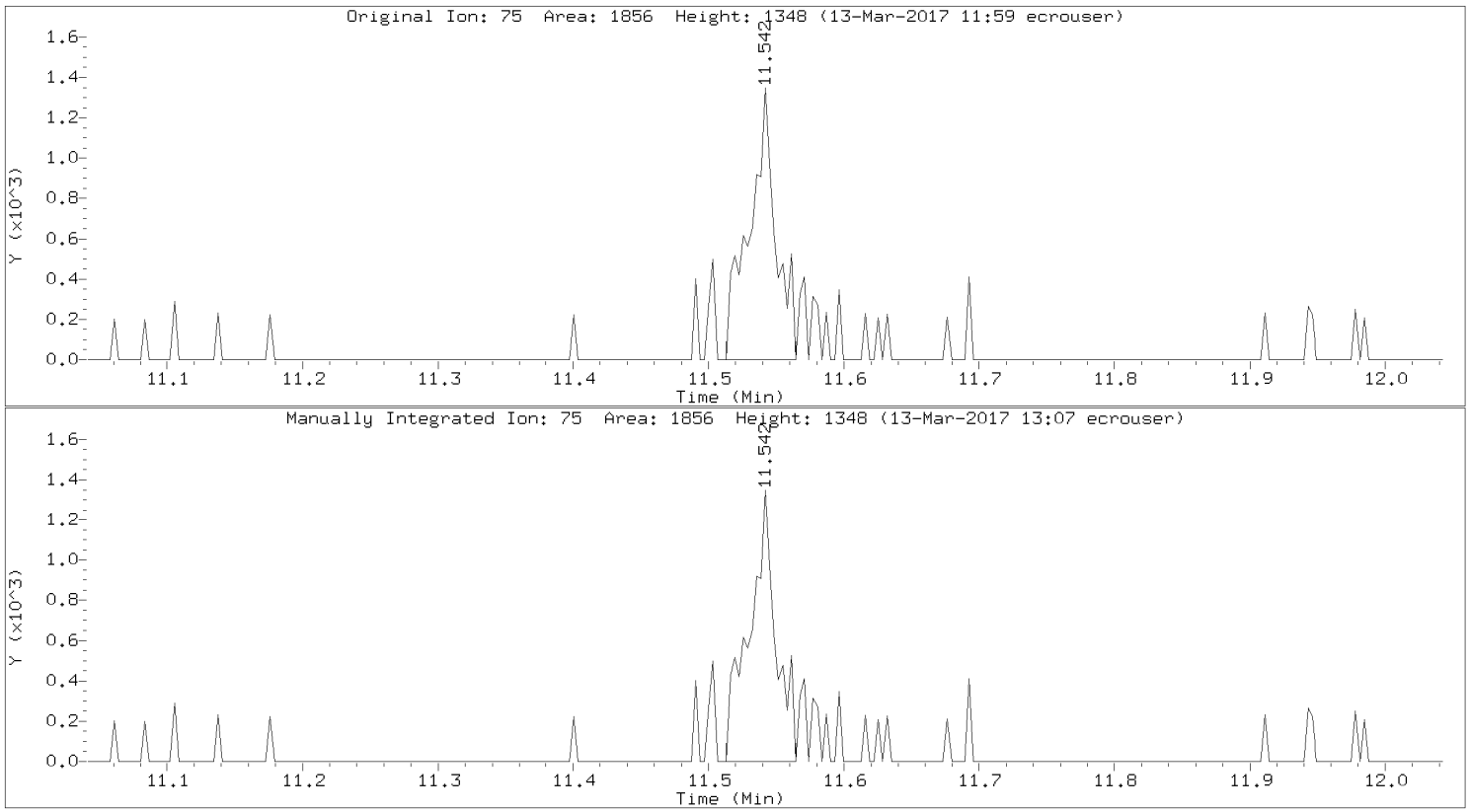






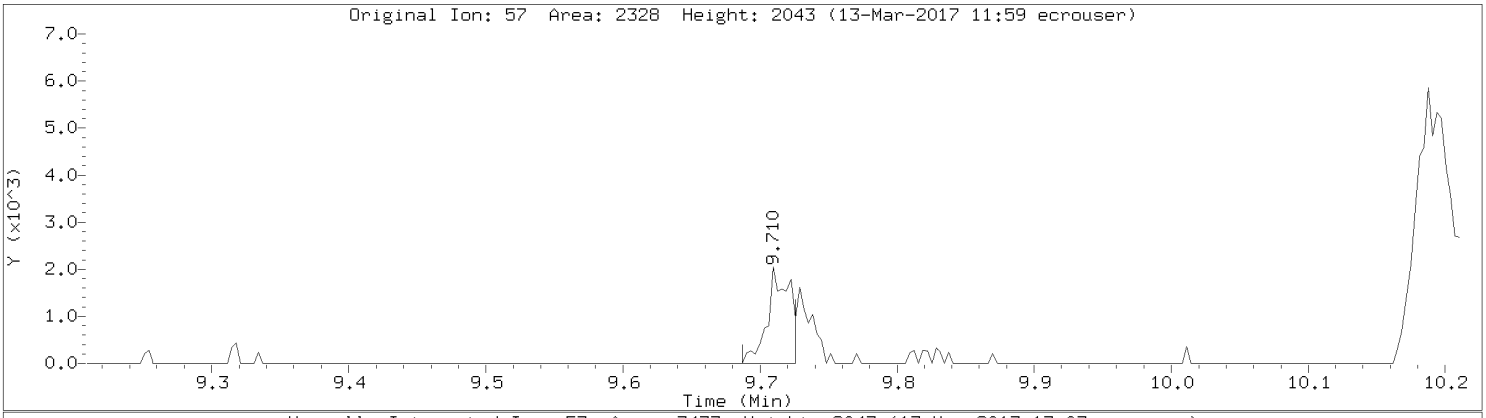


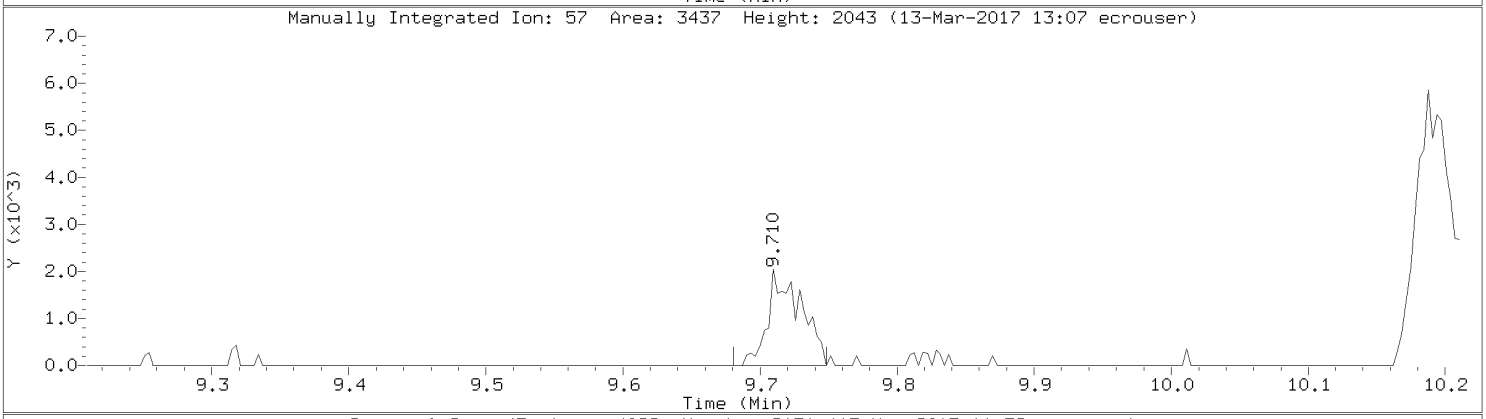
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

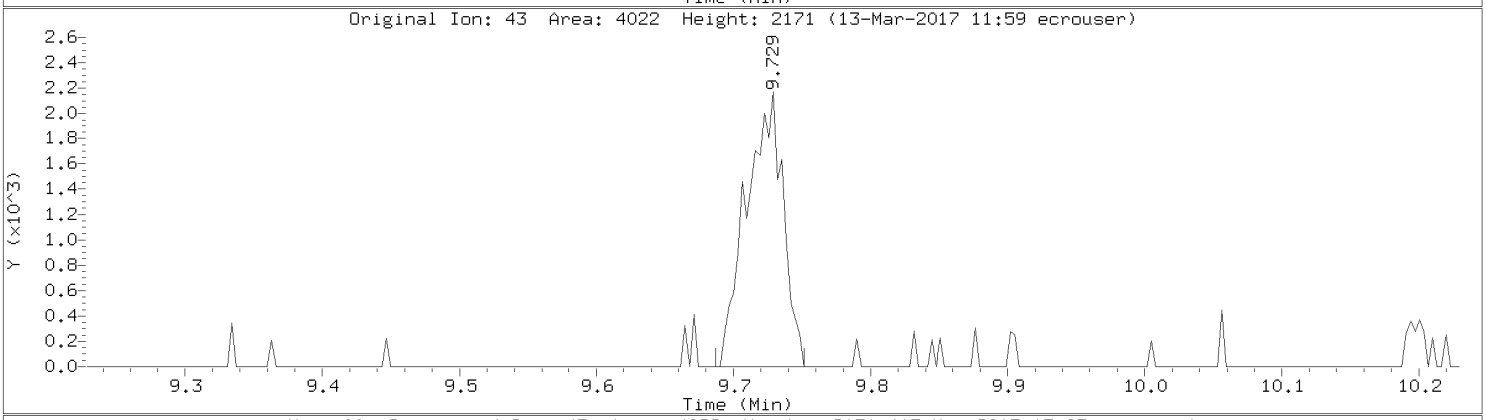


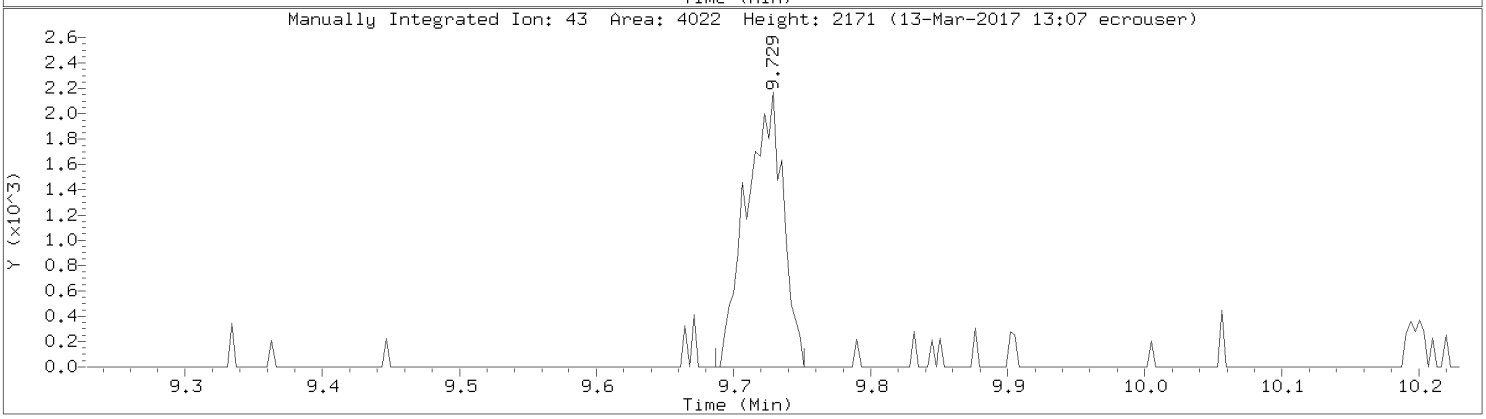
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: n-Decane
CAS Number: 124-18-5

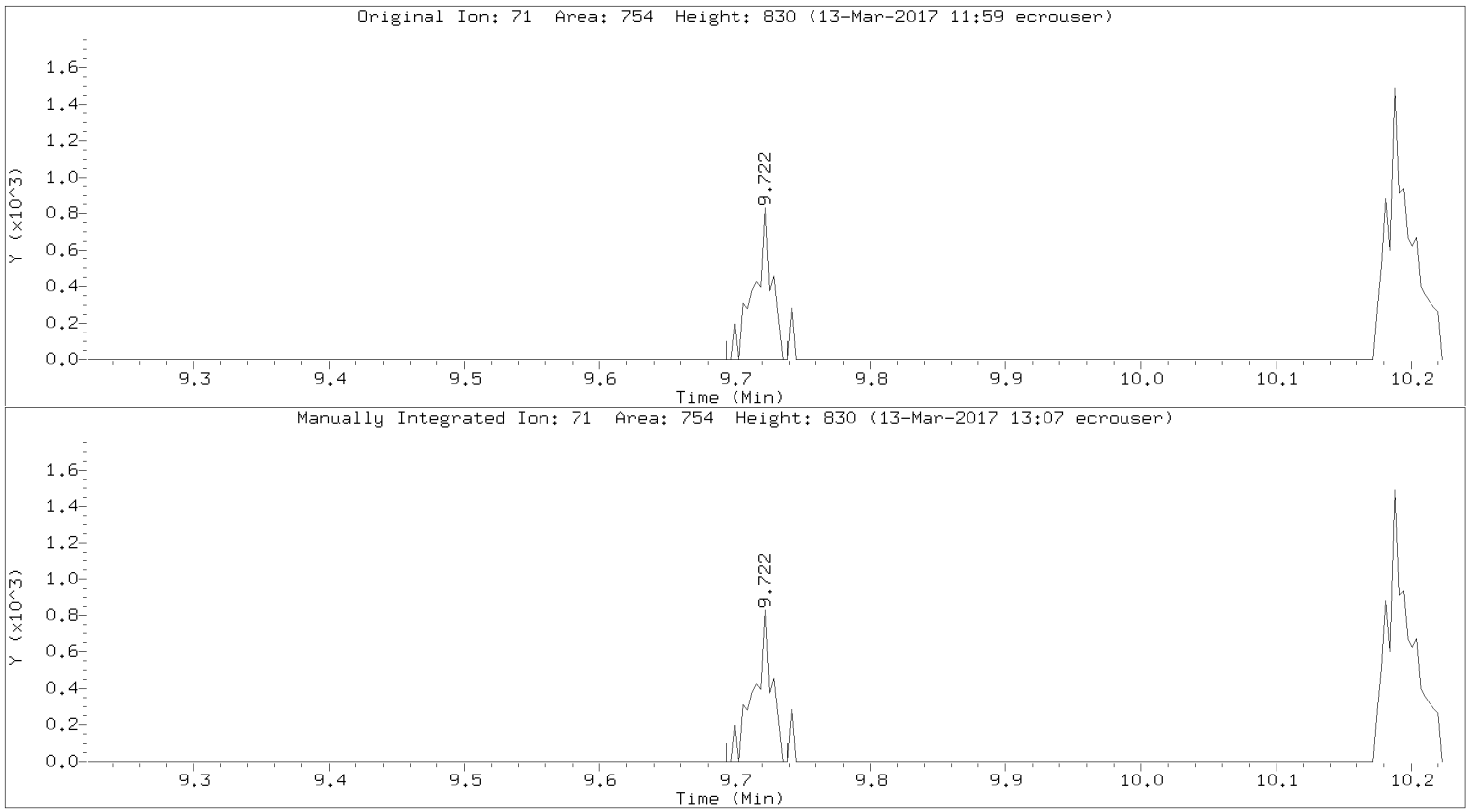








Data File: \\192.168.10.12\chem\10airD.i\031317.b/07205.d
Injection Date: 13-MAR-2017 09:58
Instrument: 10airD.i
Lab Sample ID: CAL1



Data File: \\192.168.10.12\chem\10airD.i\031317.b\07206.d
Report Date: 13-Mar-2017 13:03

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031317.b\07206.d
Lab Smp Id: CAL2
Inj Date : 13-MAR-2017 10:21
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Meth Date : 13-Mar-2017 12:53 ecrouser Quant Type: ISTD
Cal Date : 13-MAR-2017 10:21 Cal File: 07206.d
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.066	2.066	(0.487)	950	0.20000	0.270
2	1,1-Difluoroethane	65	2.114	2.114	(0.499)	3077	0.20000	0.208
3	Chlorodifluoromethane	67	2.123	2.123	(0.501)	1587	0.20000	0.201
4	Propylene	41	2.130	2.130	(0.503)	9283	0.20000	0.182
5	Dichlorodifluoromethane	85	2.149	2.149	(0.507)	15985	0.20000	0.218
6	Dichlorotetrafluoroethane	85	2.213	2.213	(0.522)	14732	0.20000	0.206
7	Chloromethane	50	2.216	2.216	(0.523)	6701	0.20000	0.211
8	Vinyl chloride	62	2.277	2.277	(0.537)	4529	0.20000	0.187
9	1,3-Butadiene	54	2.300	2.300	(0.543)	3072	0.20000	0.188
10	Bromomethane	94	2.406	2.406	(0.568)	5460	0.20000	0.198
11	Chloroethane	64	2.441	2.441	(0.576)	1622	0.20000	0.169
12	Ethanol	45	2.508	2.508	(0.592)	6428	1.00000	0.979(M)
13	Vinyl Bromide	106	2.531	2.531	(0.597)	5109	0.20000	0.199
14	Isopentane	43	2.540	2.540	(0.600)	5569	0.20000	0.194
15	Freon 123	83	2.544	2.544	(0.600)	13007	0.20000	0.201
16	Trichlorofluoromethane	101	2.598	2.598	(0.613)	14895	0.20000	0.198
17	Acrolein	56	2.617	2.617	(0.618)	1583	0.50000	0.294
18	Acetone	43	2.640	2.640	(0.623)	39882	1.00000	1.09(M)
19	Isopropyl Alcohol	45	2.675	2.675	(0.631)	34220	1.00000	1.05(M)
20	1,1-Dichloroethene	61	2.784	2.784	(0.657)	8618	0.20000	0.199
21	Acrylonitrile	53	2.816	2.816	(0.665)	5447	0.50000	0.376
24	Tert Butyl Alcohol (TBA)	59	2.829	2.829	(0.668)	23308	0.50000	0.523
22	Freon 113	101	2.816	2.816	(0.665)	12269	0.20000	0.214

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07206.d
Report Date: 13-Mar-2017 13:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.832	2.832	(0.668)	11742	0.20000	0.190
	25 Methylene chloride	49	2.861	2.861	(0.675)	30964	1.00000	1.07
	26 Allyl Chloride	76	2.871	2.871	(0.677)	2528	0.50000	0.414
	27 Carbon Disulfide	76	2.958	2.958	(0.698)	11351	0.20000	0.186
	28 trans-1,2-dichloroethene	96	3.076	3.076	(0.726)	3652	0.20000	0.176
	29 Methyl Tert Butyl Ether	73	3.115	3.115	(0.735)	28550	0.50000	0.511
	30 Vinyl Acetate	43	3.189	3.189	(0.752)	6679	0.20000	0.129(M)
	31 1,1-Dichloroethane	63	3.185	3.185	(0.752)	8756	0.20000	0.192
$	32 Hexane-d14(S)	66	3.262	3.262	(0.770)	1347624	10.0000	10.0
	33 Methyl Ethyl Ketone	72	3.343	3.343	(0.789)	1822	0.20000	0.192
	34 n-Hexane	57	3.346	3.346	(0.790)	6385	0.20000	0.187
	35 Di-isopropyl Ether	45	3.365	3.365	(0.794)	16800	0.20000	0.198
	36 cis-1,2-Dichloroethene	96	3.458	3.458	(0.816)	4328	0.20000	0.185
	37 Ethyl Acetate	43	3.484	3.484	(0.822)	10836	0.20000	0.188
	38 Ethyl Tert-Butyl Ether	59	3.558	3.558	(0.839)	36045	0.50000	0.524
	39 Chloroform	83	3.551	3.551	(0.838)	11518	0.20000	0.191
	40 Tetrahydrofuran	42	3.718	3.718	(0.877)	5311	0.20000	0.190
	41 1,1,1-Trichloroethane	97	3.888	3.888	(0.917)	12045	0.20000	0.195
	42 1,2-Dichloroethane	62	3.901	3.901	(0.920)	8935	0.20000	0.204
	43 Benzene	78	4.097	4.097	(0.967)	13276	0.20000	0.193
	45 Carbon tetrachloride	117	4.110	4.110	(0.970)	10321	0.20000	0.174
	44 Cyclohexane	56	4.116	4.116	(0.971)	6745	0.20000	0.194
	46 Tert Amyl Methyl Ether	73	4.238	4.238	(1.000)	55888	0.20000	0.308
*	47 1,4-Difluorobenzene	114	4.238	4.238	(1.000)	2928751	10.0000	
	48 2,2,4-Trimethylpentane	57	4.363	4.363	(1.030)	63594	0.50000	0.591
	49 Heptane	43	4.482	4.482	(1.058)	10770	0.20000	0.208
	50 1,2-Dichloropropane	63	4.549	4.549	(1.073)	6430	0.20000	0.205
	51 Trichloroethene	130	4.559	4.559	(1.076)	8319	0.20000	0.208
	52 Methyl methacrylate	69	4.655	4.655	(1.098)	4233	0.20000	0.190
	53 Bromodichloromethane	83	4.652	4.652	(1.098)	12903	0.20000	0.192
	54 1,4-Dioxane	88	4.716	4.716	(1.113)	1175	0.20000	0.161
	55 Methylcyclohexane	98	4.944	4.944	(1.167)	2610	0.20000	0.187
	56 Methyl Isobutyl Ketone	43	5.098	5.098	(1.203)	31577	0.50000	0.493
	57 cis-1,3-Dichloropropene	75	5.124	5.124	(1.209)	7890	0.20000	0.184
	58 trans-1,3-Dichloropropene	75	5.505	5.505	(1.299)	6315	0.20000	0.172(M)
$	59 Toluene-d8 (S)	98	5.560	5.560	(1.312)	2774835	10.0000	9.98
	60 Toluene	91	5.627	5.627	(1.328)	19057	0.20000	0.207
	61 1,1,2-Trichloroethane	97	5.640	5.640	(1.331)	7544	0.20000	0.208
	62 Methyl Butyl Ketone	43	5.897	5.897	(0.839)	27468	0.50000	0.468
	63 n-Octane	43	6.054	6.054	(0.862)	12375	0.20000	0.200
	64 Dibromochloromethane	129	6.125	6.125	(0.872)	10425	0.20000	0.161
	65 1,2-Dibromoethane	107	6.337	6.337	(0.902)	10511	0.20000	0.184
	66 Tetrachloroethene	166	6.401	6.401	(0.911)	12055	0.20000	0.195
*	67 Chlorobenzene - d5	117	7.027	7.027	(1.000)	2108987	10.0000	
	68 Chlorobenzene	112	7.071	7.071	(1.006)	14325	0.20000	0.198
	69 Ethyl Benzene	91	7.312	7.312	(1.041)	22035	0.20000	0.191
	70 m&p-Xylene	91	7.450	7.450	(1.060)	36342	0.40000	0.416
	71 Bromoform	173	7.819	7.819	(1.113)	7709	0.20000	0.133
	72 n-Nonane	43	7.851	7.851	(1.117)	10392	0.20000	0.181
	73 Styrene	104	7.867	7.867	(1.120)	11218	0.20000	0.187
	74 o-Xylene	91	7.928	7.928	(1.128)	18361	0.20000	0.195
	75 1,1,2,2-Tetrachloroethane	83	8.195	8.195	(1.166)	12237	0.20000	0.191
	76 Isopropylbenzene	105	8.493	8.493	(1.209)	24482	0.20000	0.205
	77 N-Propylbenzene	91	9.058	9.058	(1.289)	22694	0.20000	0.182

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07206.d
Report Date: 13-Mar-2017 13:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.225	9.225	(1.313)	17191	0.20000	0.170
79	1,3,5-Trimethylbenzene	105	9.321	9.321	(1.327)	20870	0.20000	0.207
80	n-Decane	57	9.712	9.712	(2.292)	7995	0.20000	0.176
81	Tert-Butyl Benzene	119	9.805	9.805	(1.395)	17392	0.20000	0.185
82	1,2,4-Trimethylbenzene	105	9.828	9.828	(1.399)	25671	0.20000	0.228
83	1,3-Dichlorobenzene	146	10.126	10.126	(1.441)	12659	0.20000	0.193
84	Sec- Butylbenzene	105	10.152	10.152	(1.445)	20873	0.20000	0.177
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1074427	10.0000	9.79
86	Benzyl Chloride	91	10.223	10.223	(1.455)	12416	0.20000	0.187
87	1,4-Dichlorobenzene	146	10.232	10.232	(1.456)	13040	0.20000	0.195(M)
88	p-Isopropyltoluene	119	10.370	10.370	(1.476)	19774	0.20000	0.184(M)
89	1,2,3-Trimethylbenzene	105	10.412	10.412	(1.482)	15178	0.20000	0.181
90	1,2-Dichlorobenzene	146	10.694	10.694	(1.522)	11651	0.20000	0.190
91	N-Butylbenzene	91	10.977	10.977	(1.562)	15478	0.20000	0.170
92	1,2-Dibromo-3-Chloropropane	157	11.535	11.535	(1.642)	3129	0.20000	0.181(M)
93	1,2,4-Trichlorobenzene	180	12.841	12.841	(1.827)	5126	0.20000	0.188(M)
94	Naphthalene	128	12.966	12.966	(1.845)	10074	0.20000	0.199
95	Hexachlorobutadiene	225	13.213	13.213	(1.880)	6277	0.20000	0.190

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07206.d
Report Date: 13-Mar-2017 13:03

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07206.d
Lab Smp Id: CAL2
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Misc Info:

Calibration Date: 13-MAR-2017
Calibration Time: 11:34
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2916193	1749716	4082670	2928751	0.43
67 Chlorobenzene - d	2134582	1280749	2988415	2108987	-1.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.22
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07206.D

Date : 13-MAR-2017 10:21

Client ID:

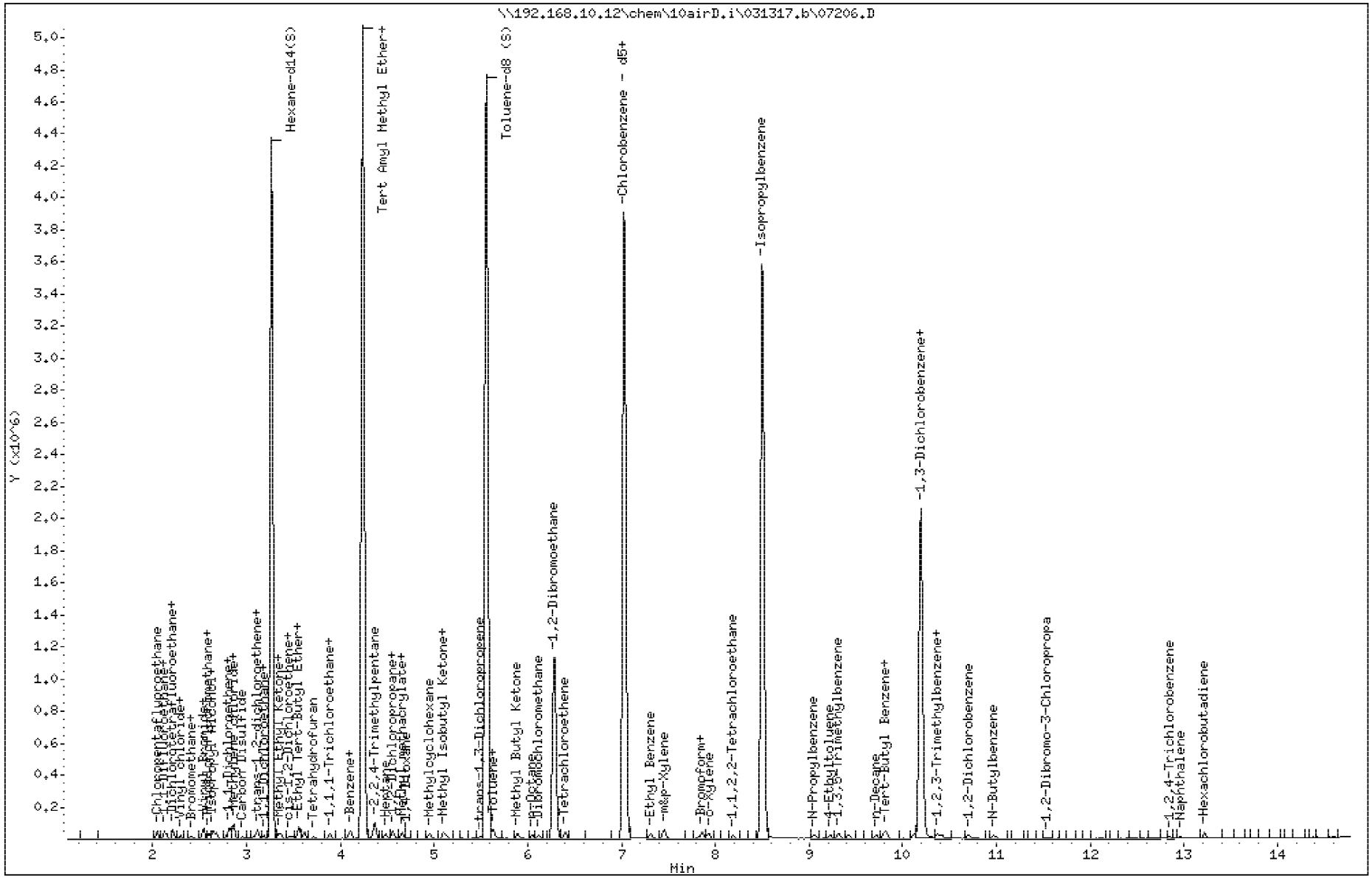
Instrument: 10airD.i

Sample Info:

Operator: EMC

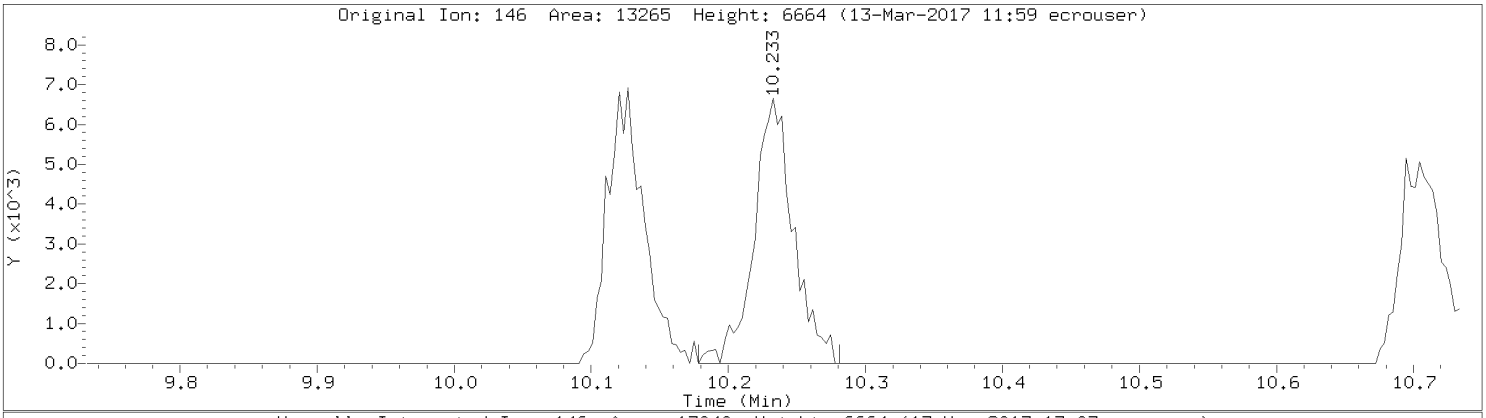
Column phase: J&W DB-5

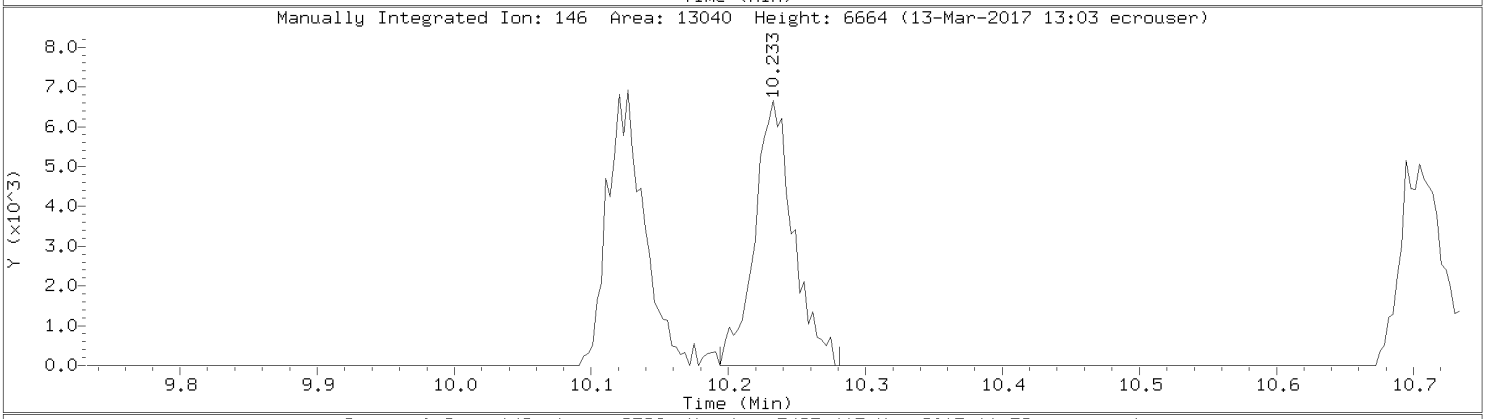
Column diameter: 0.32

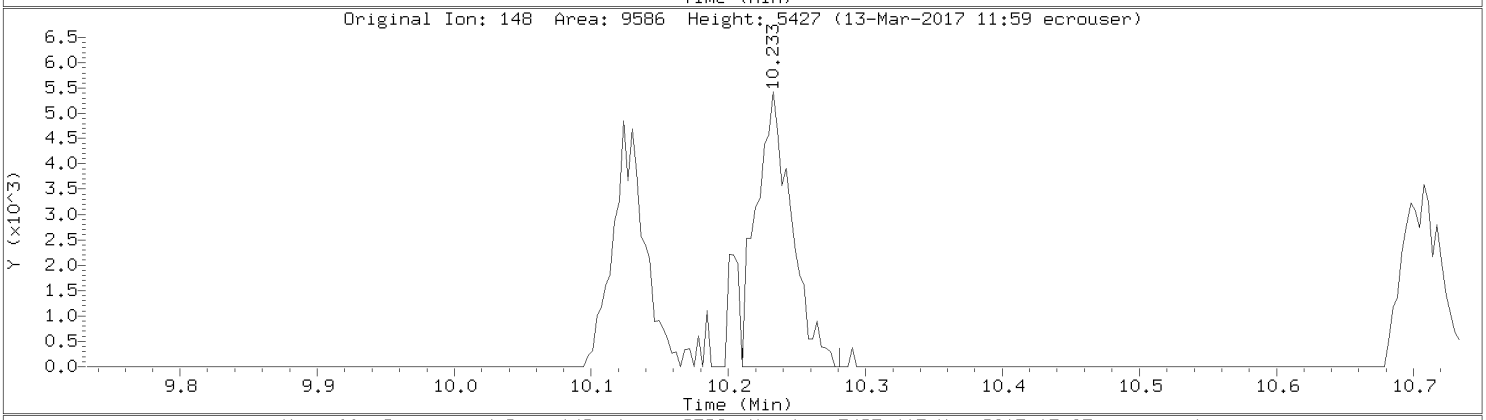


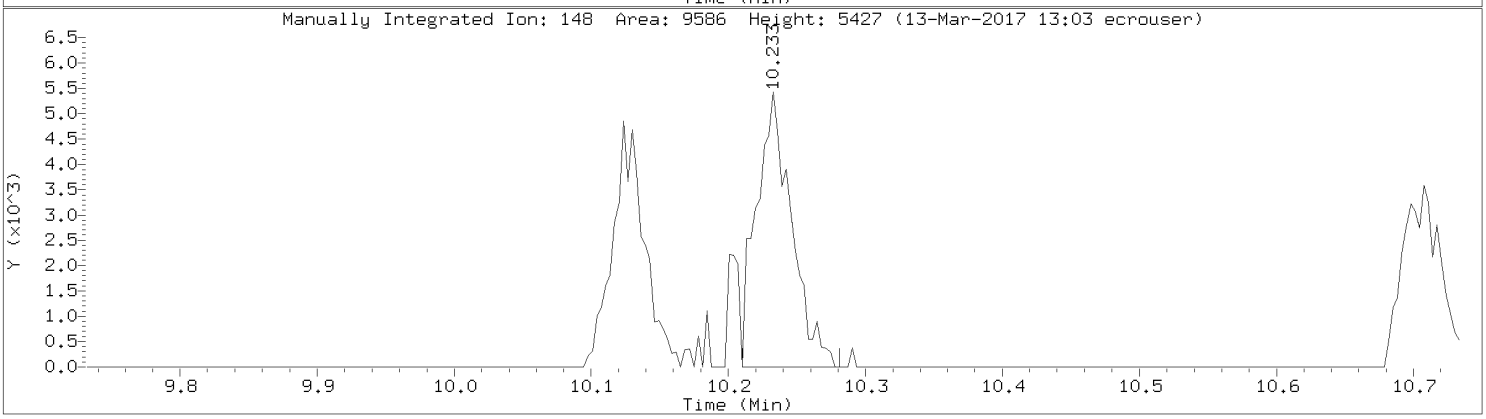
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

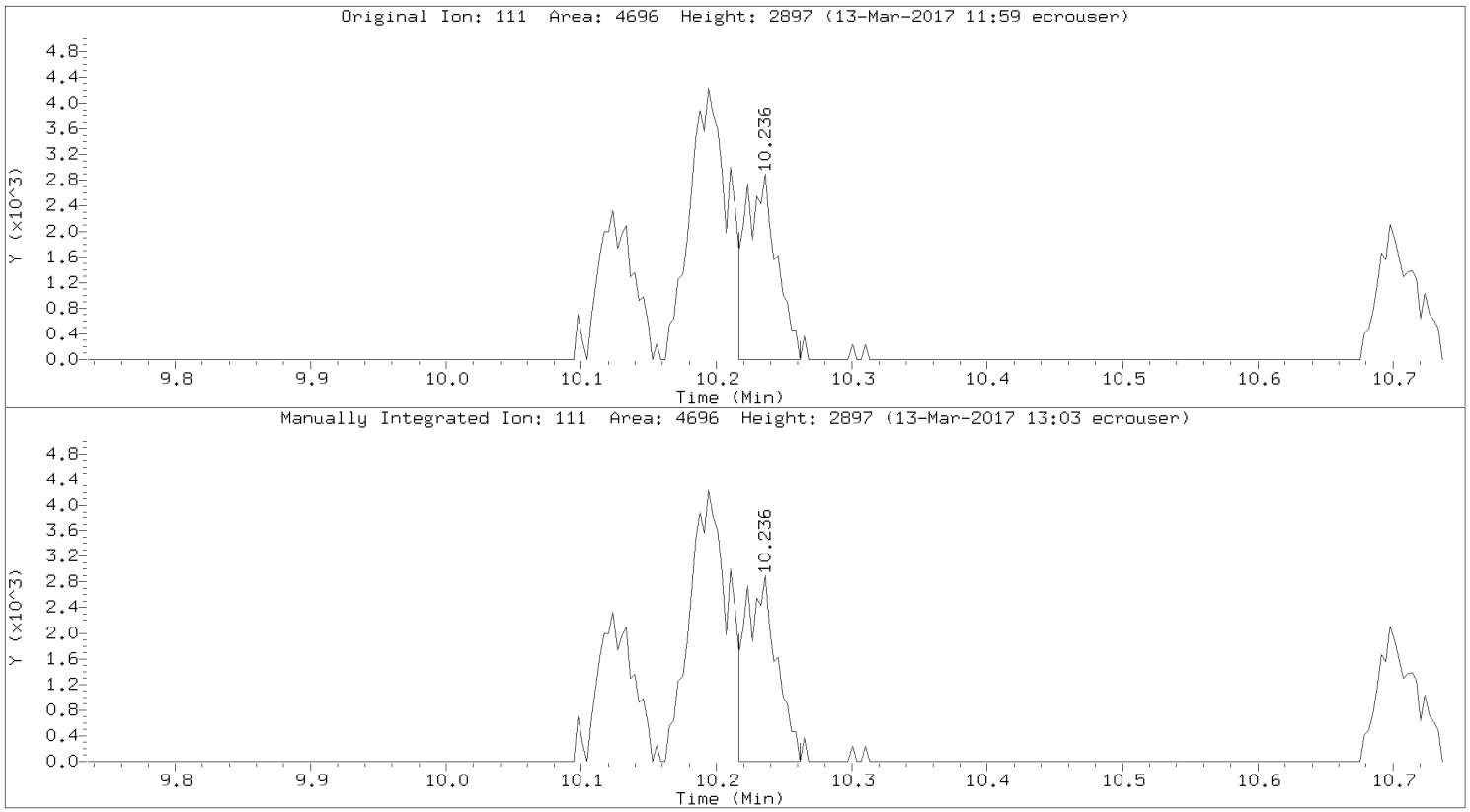






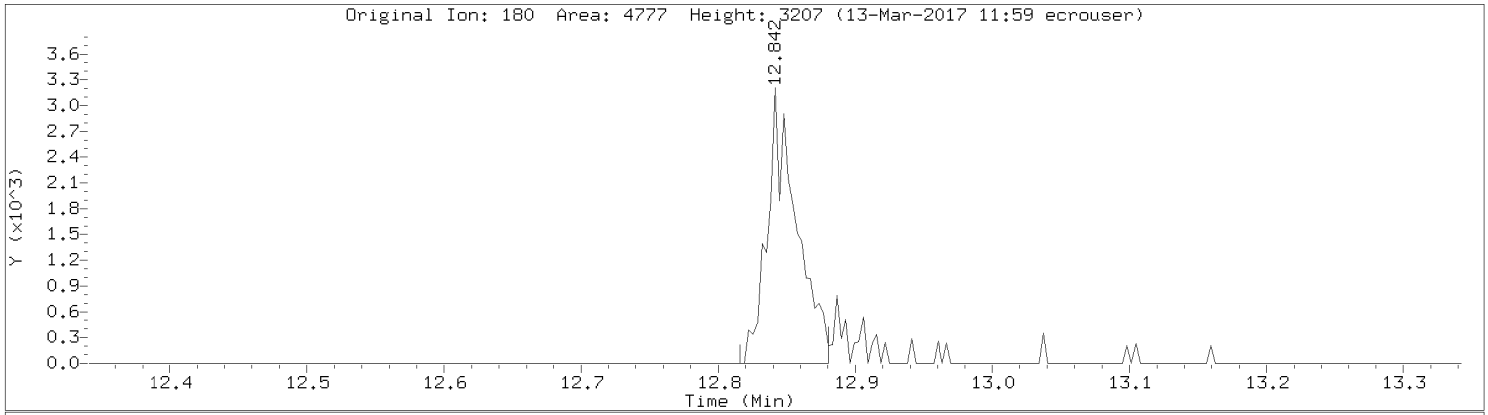


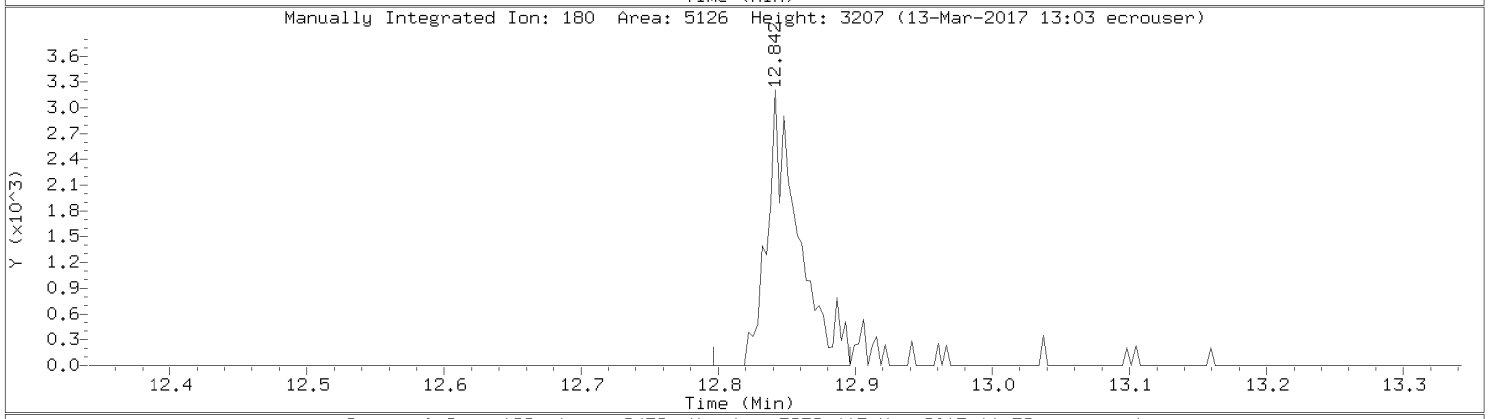
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

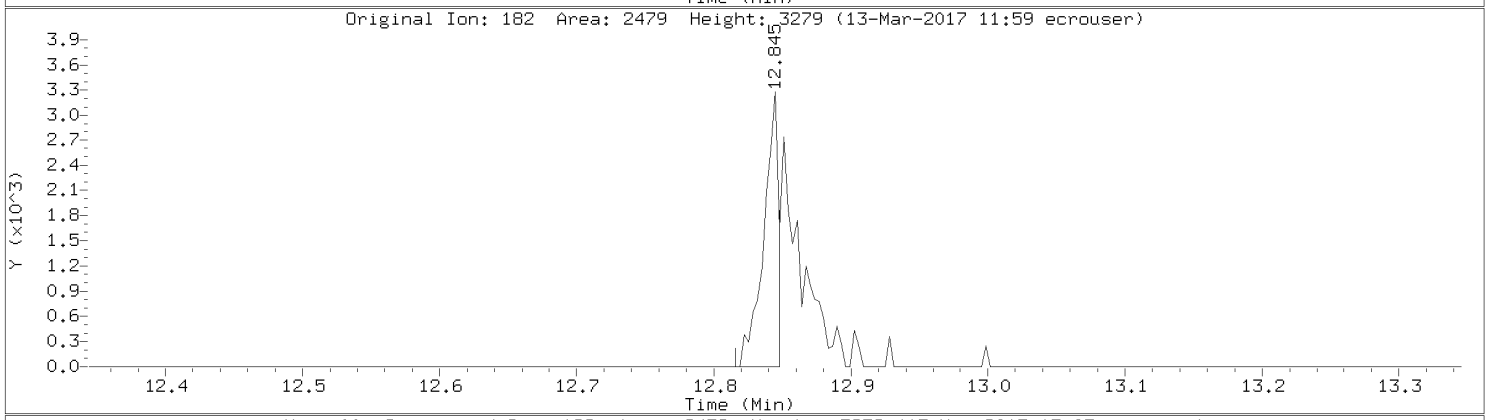


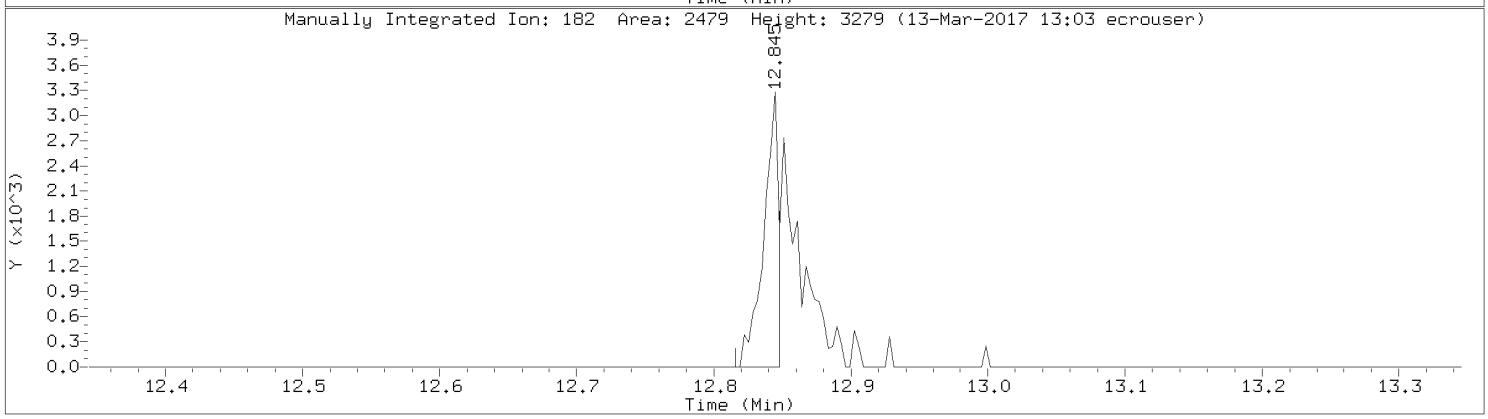
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

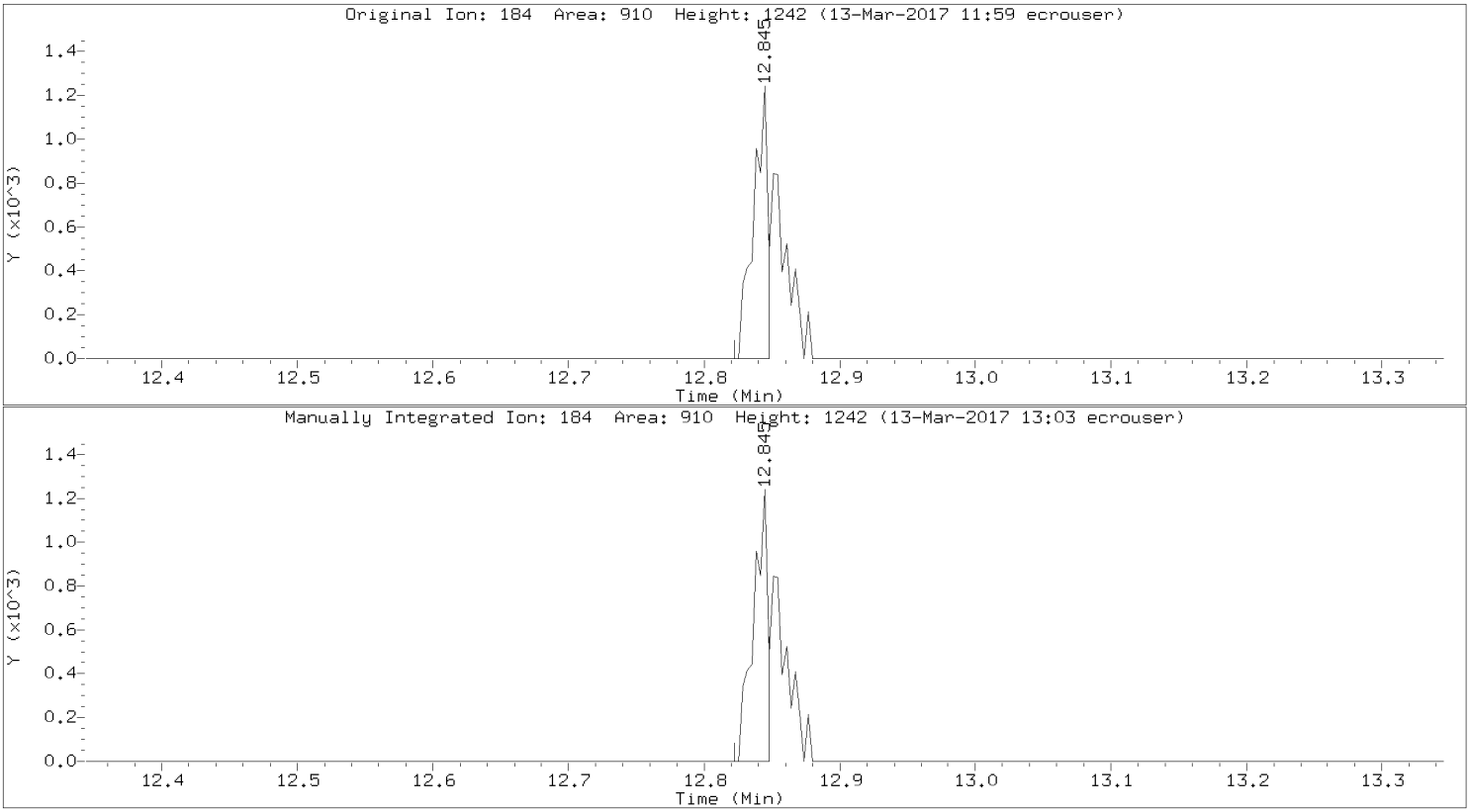






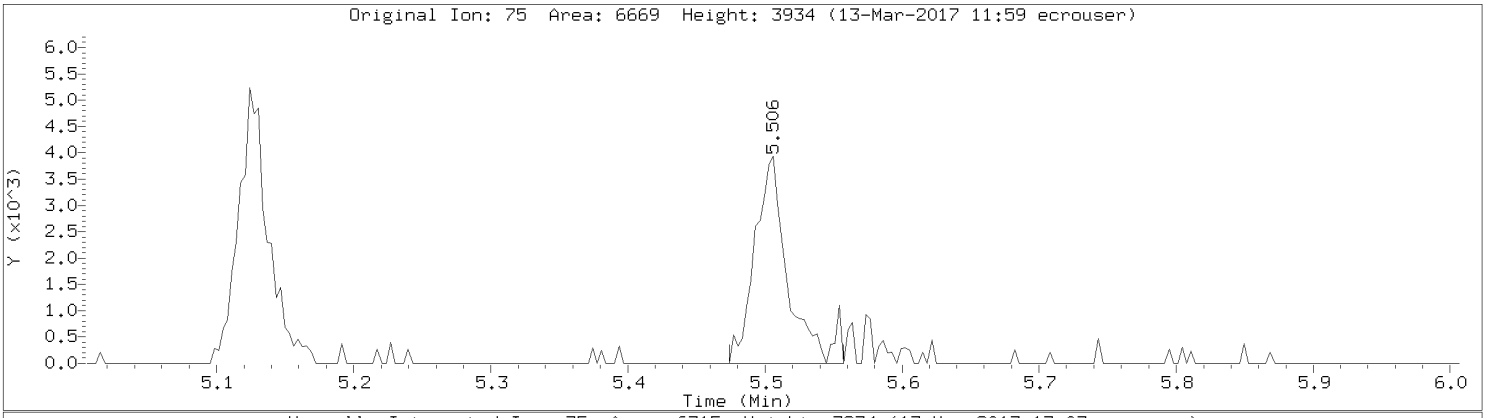


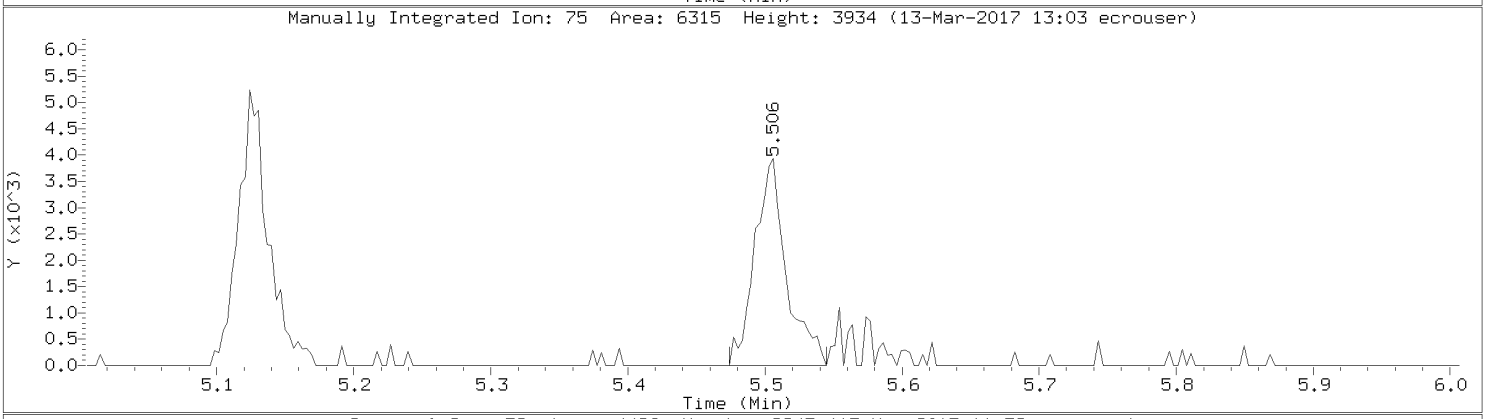
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

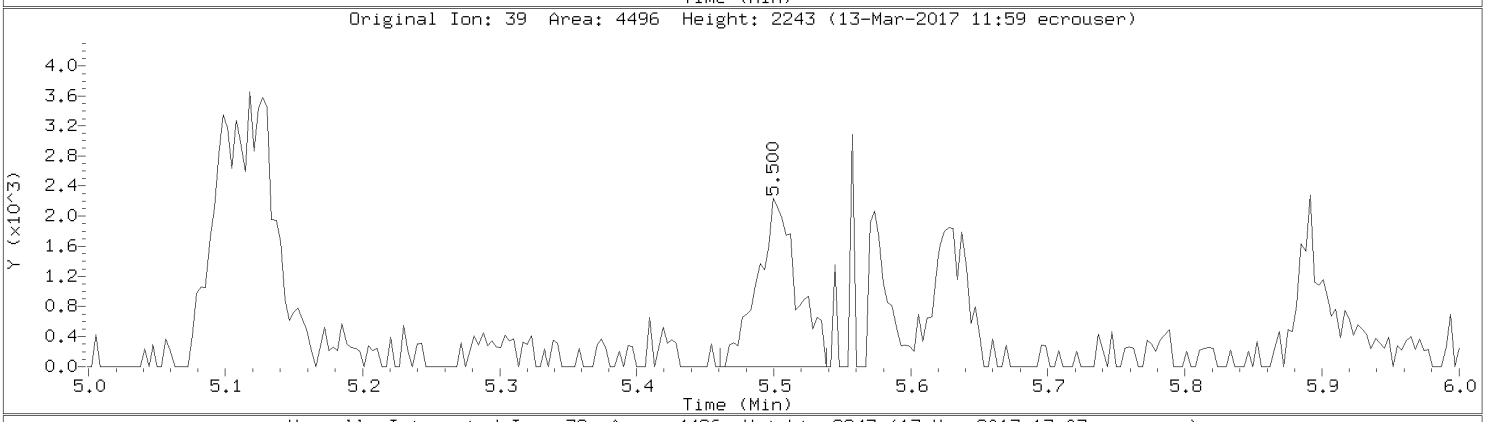


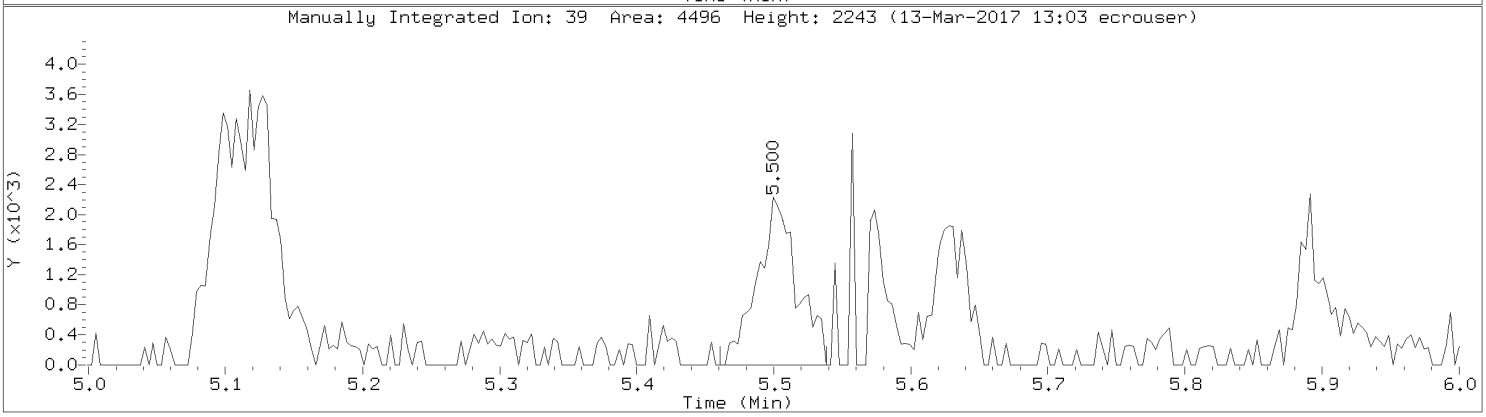
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

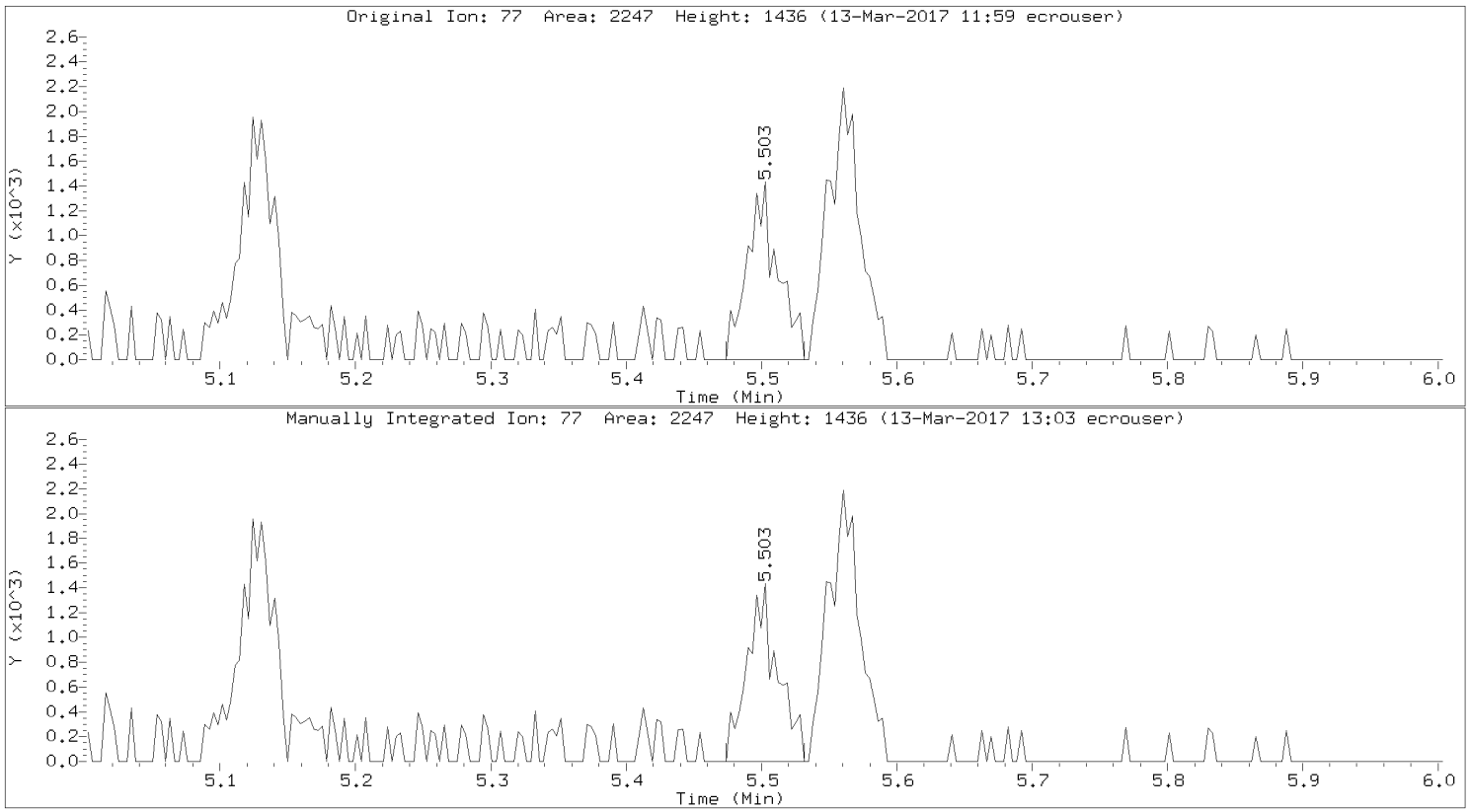






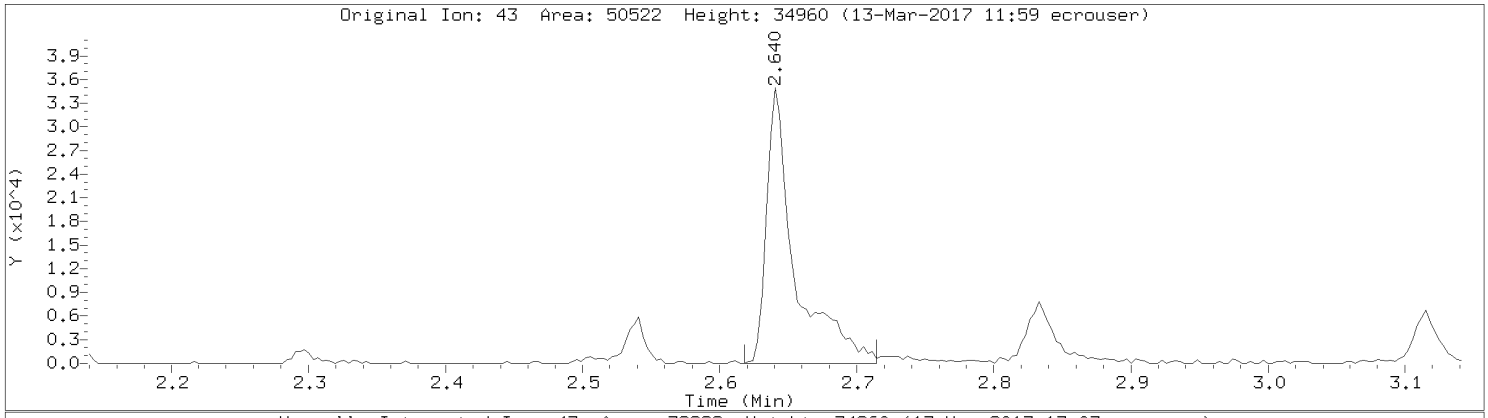


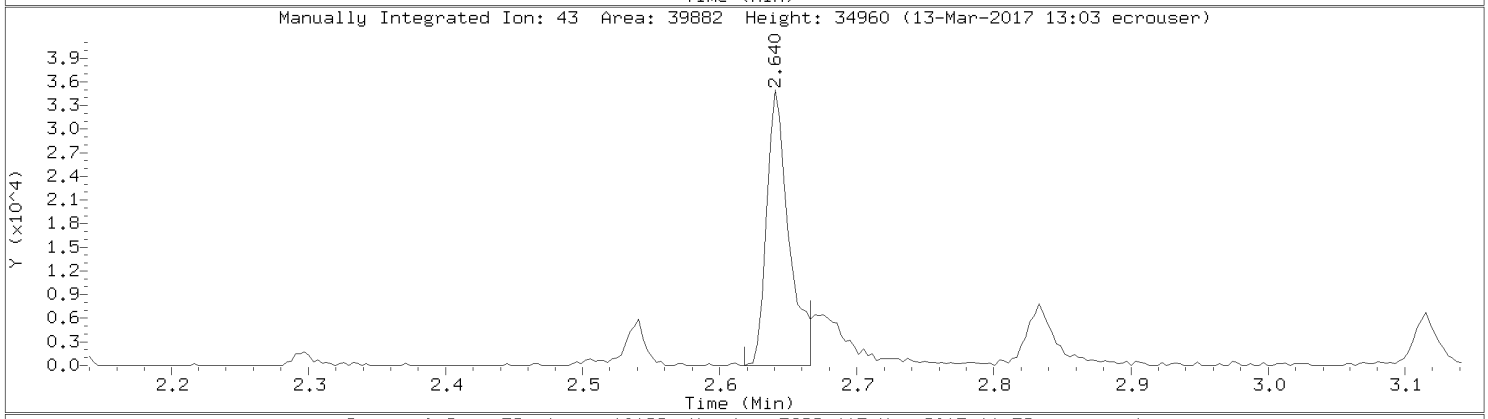
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

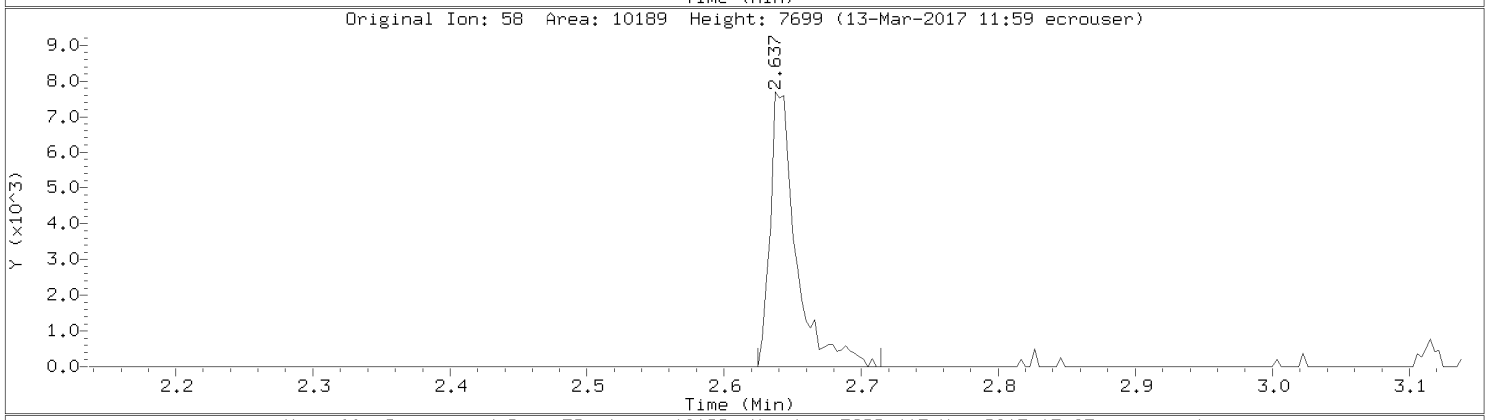


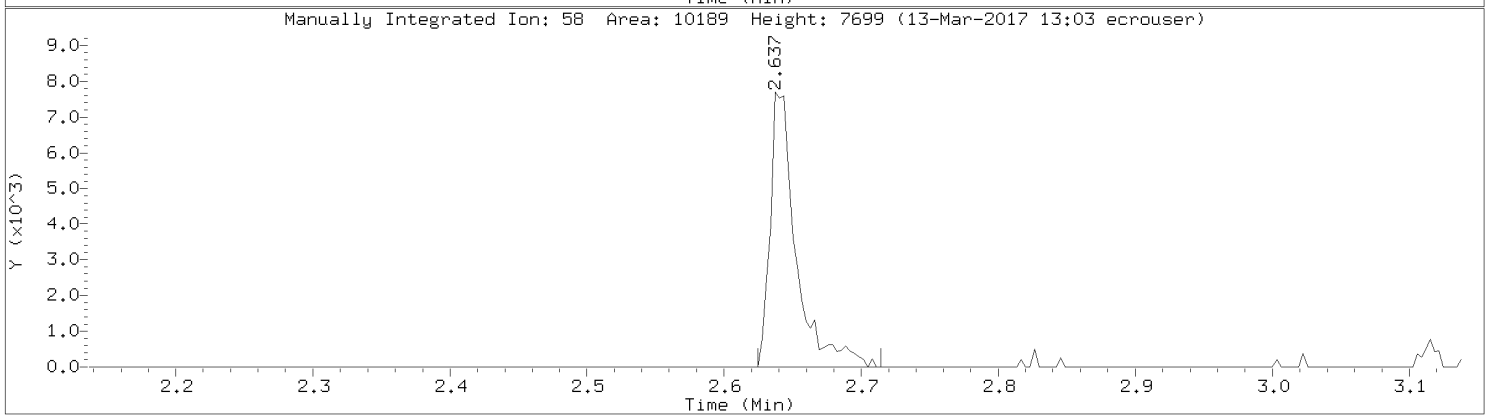
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Acetone
CAS Number: 67-64-1



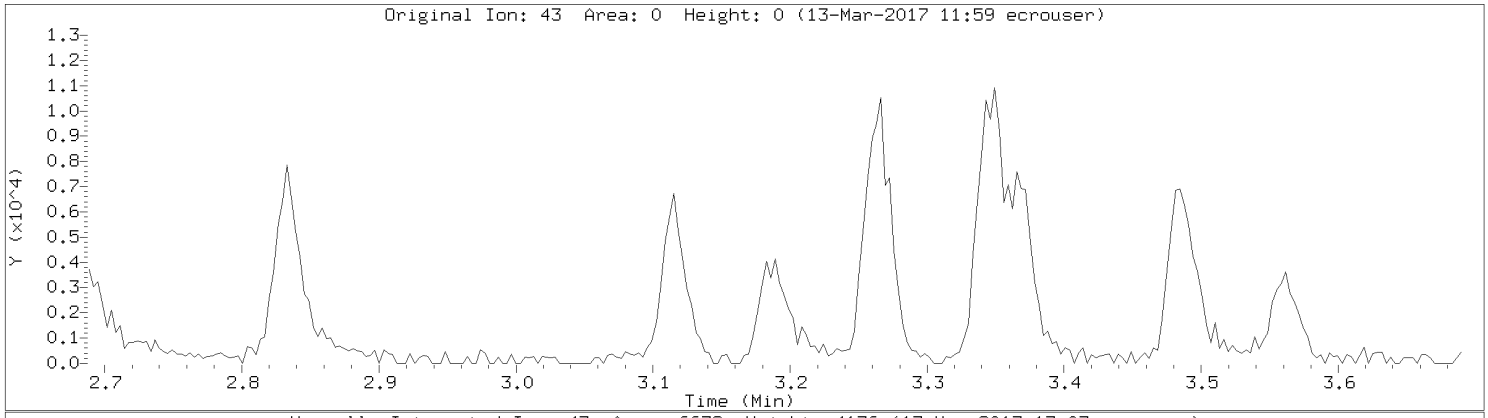


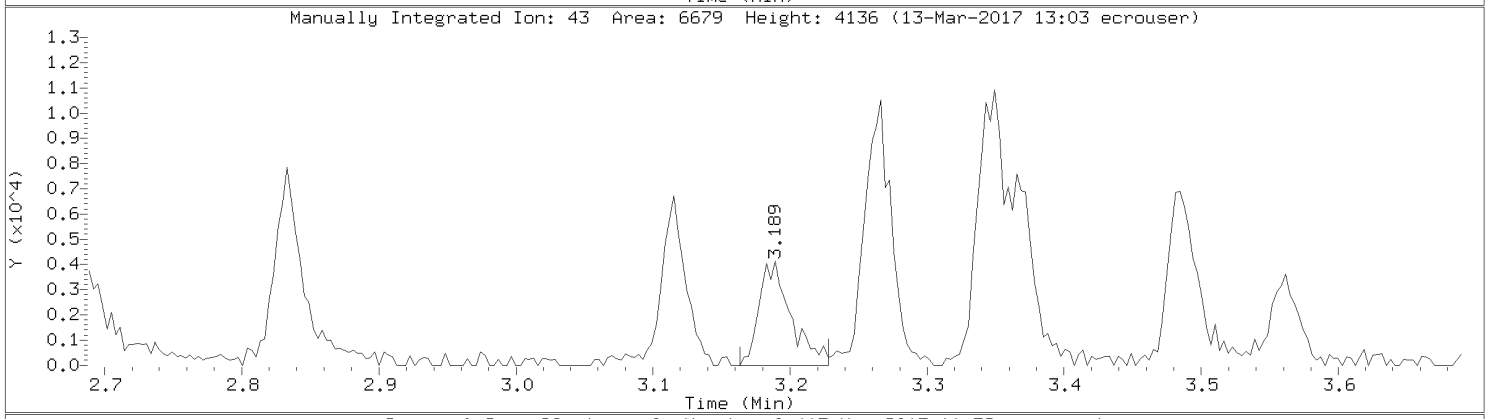


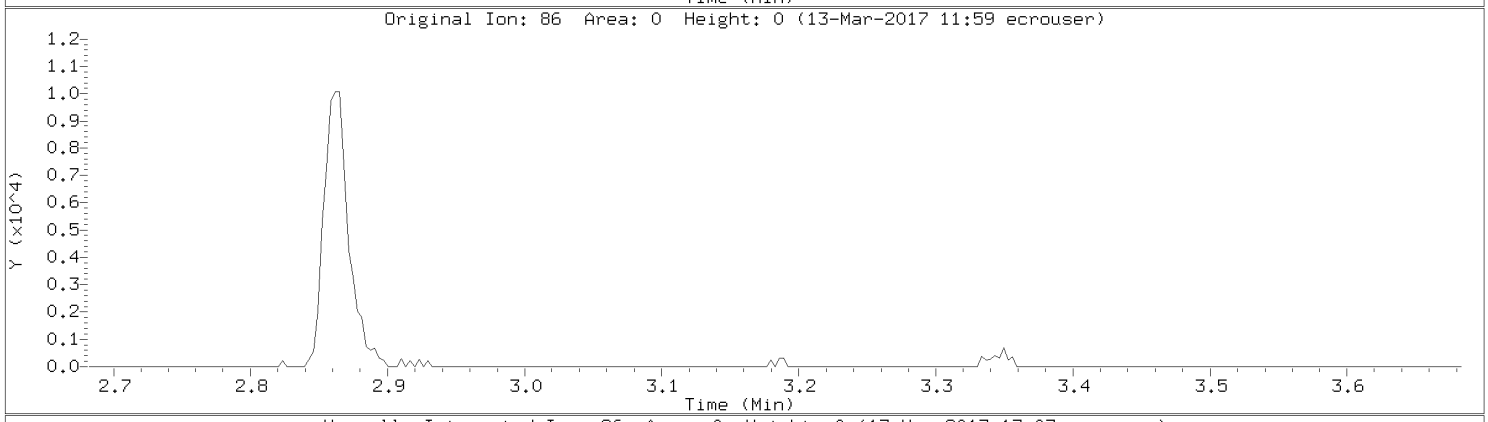


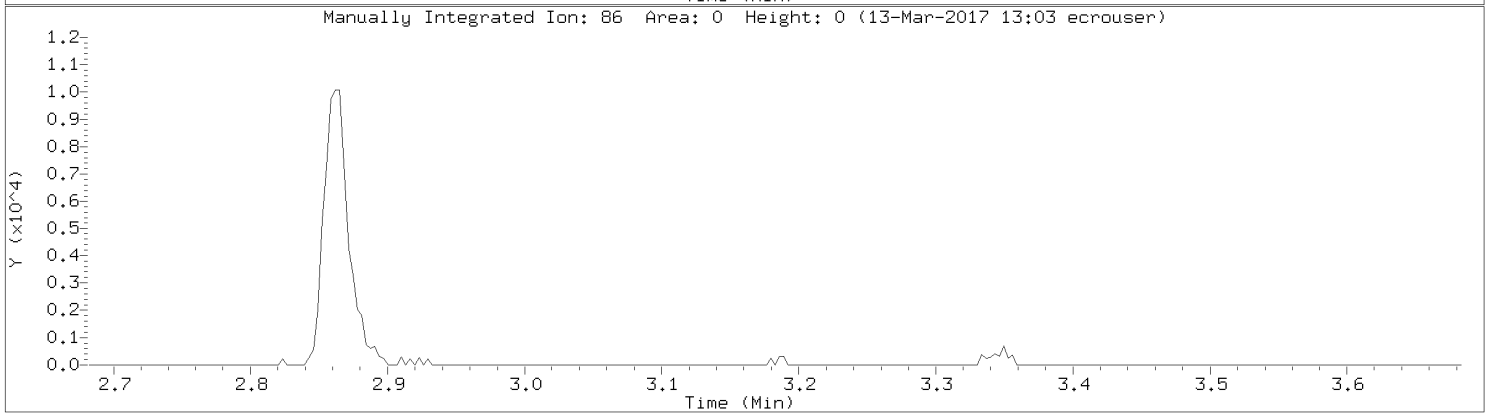
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Vinyl Acetate
CAS Number: 108-05-4



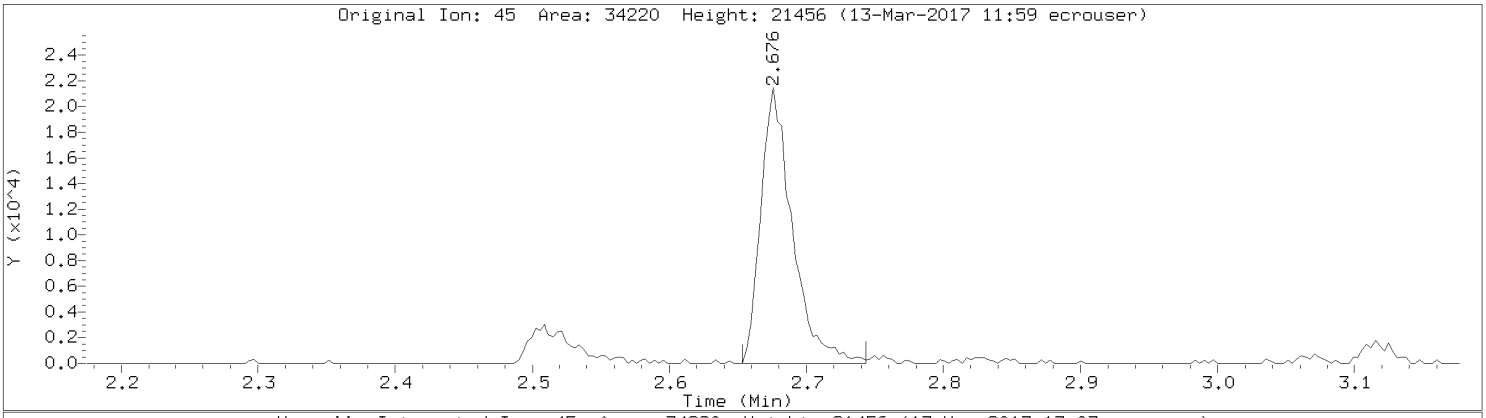


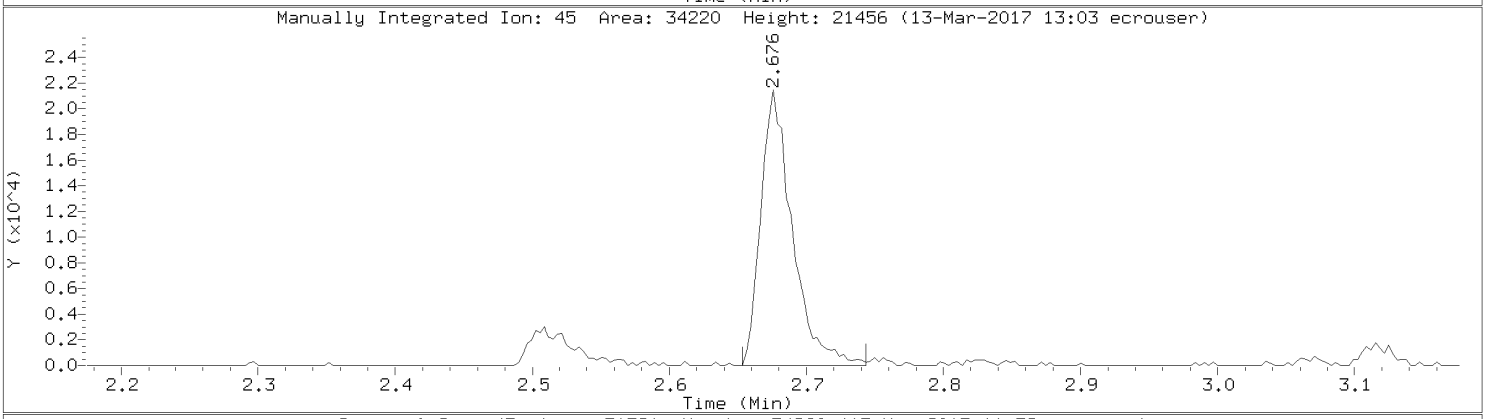


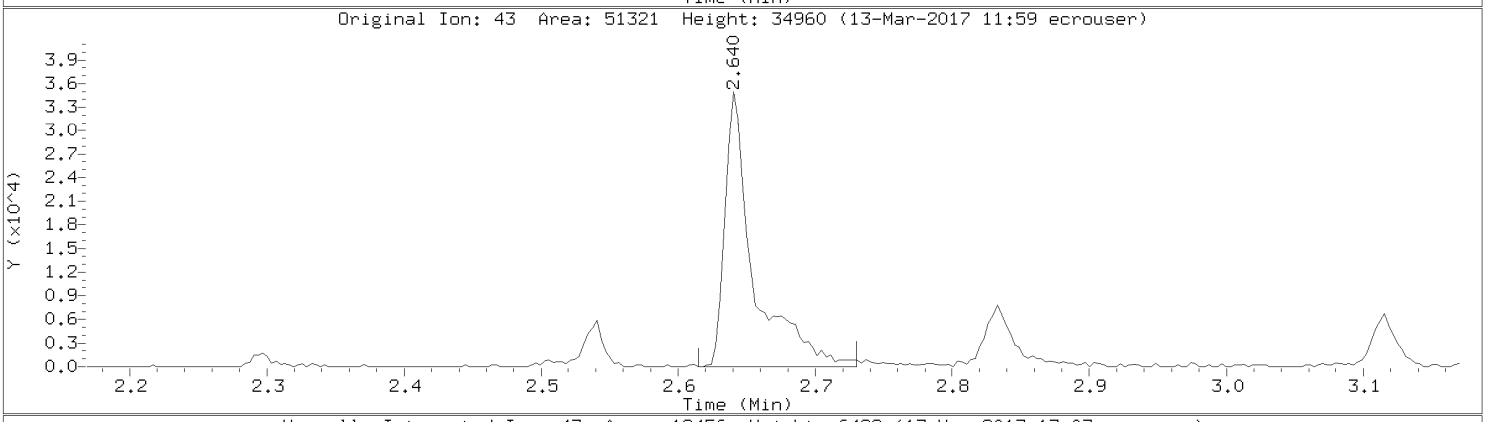


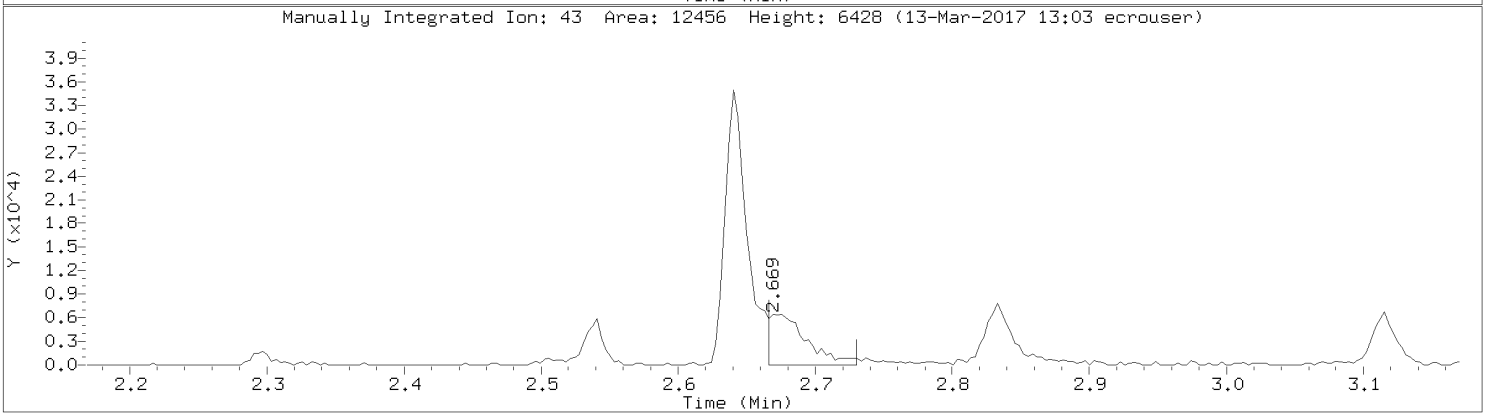
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



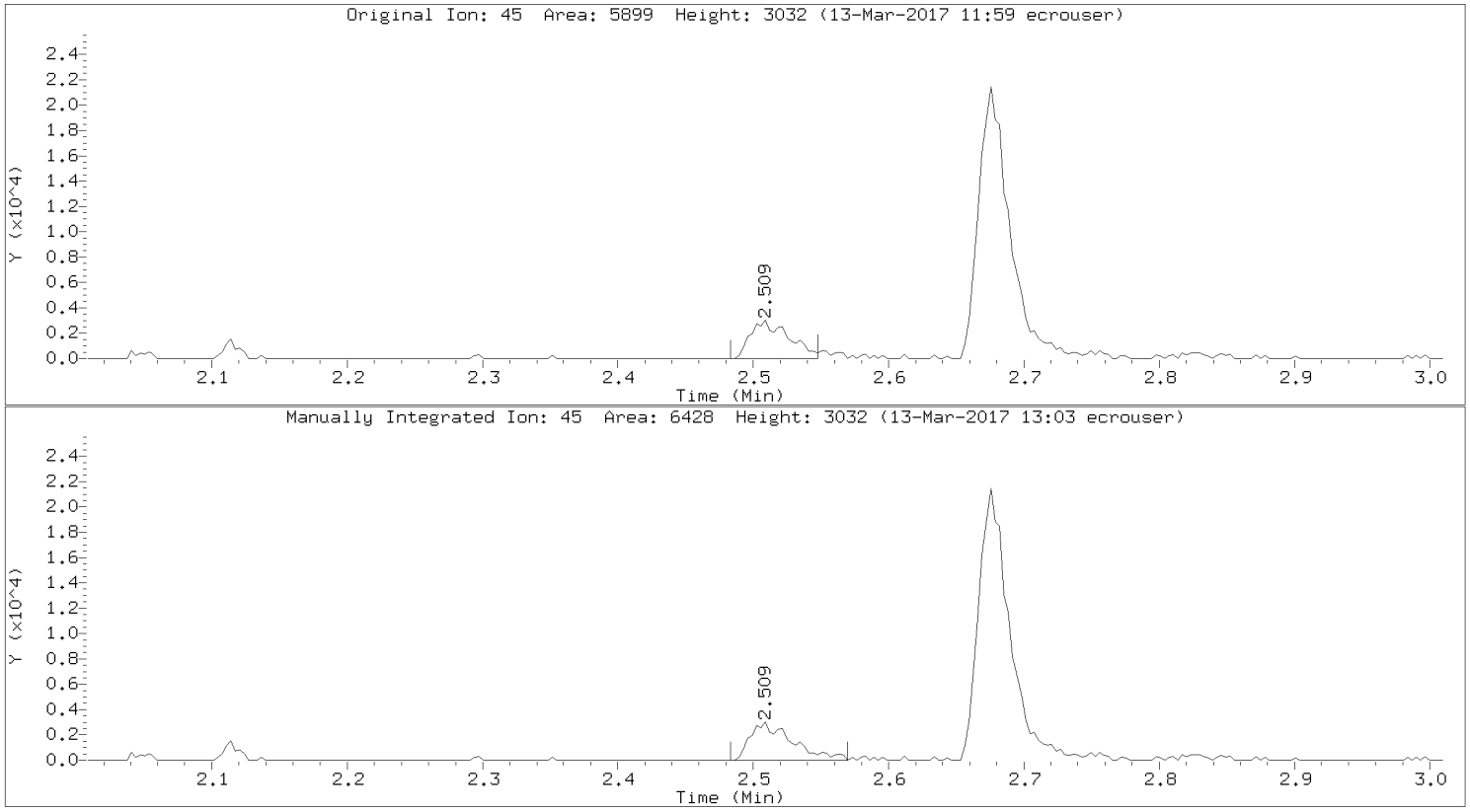






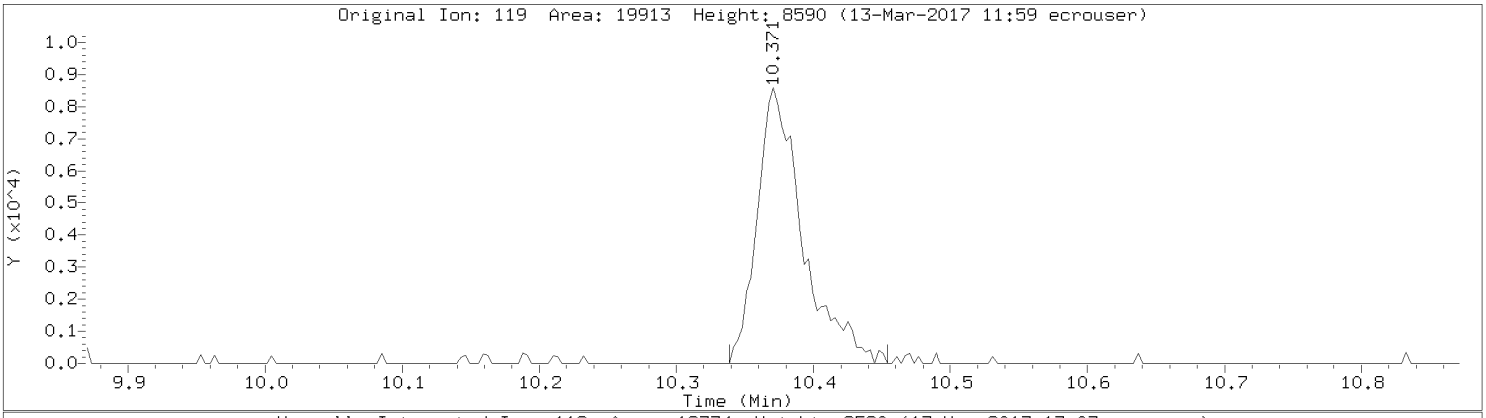
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

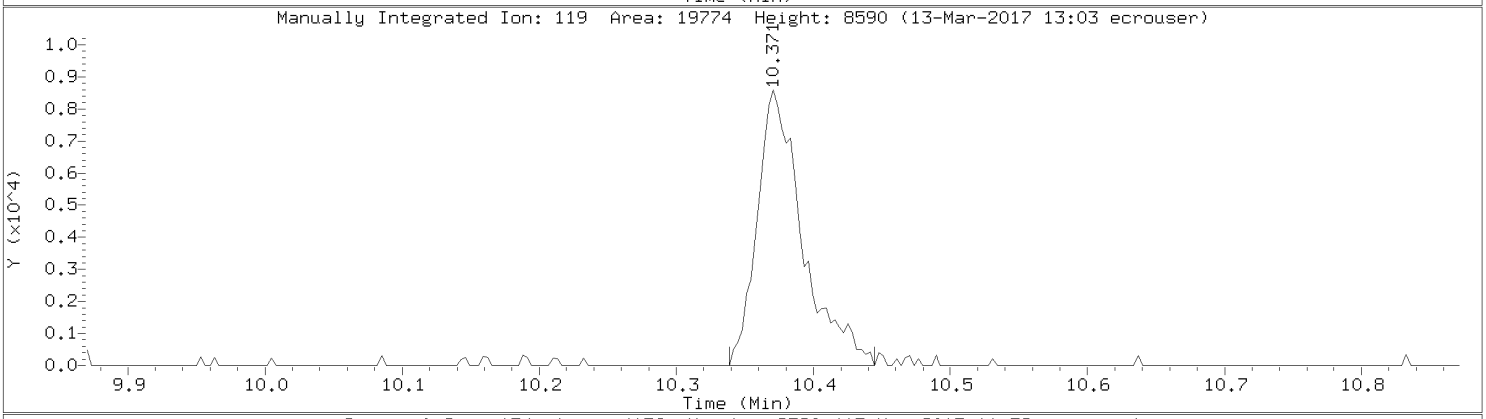
Compound: Ethanol
CAS Number: 64-17-5

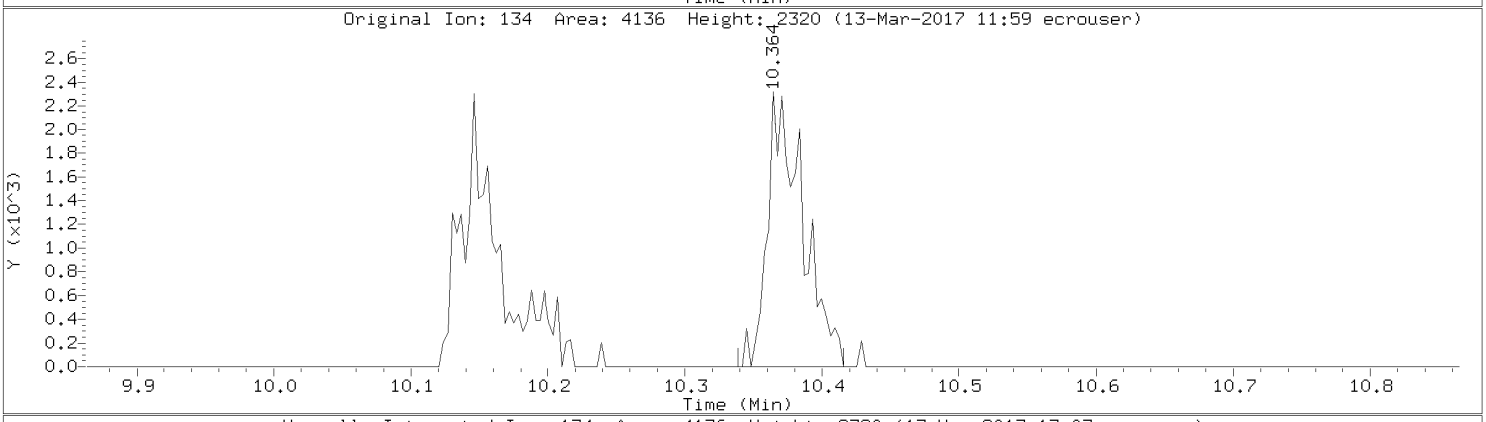


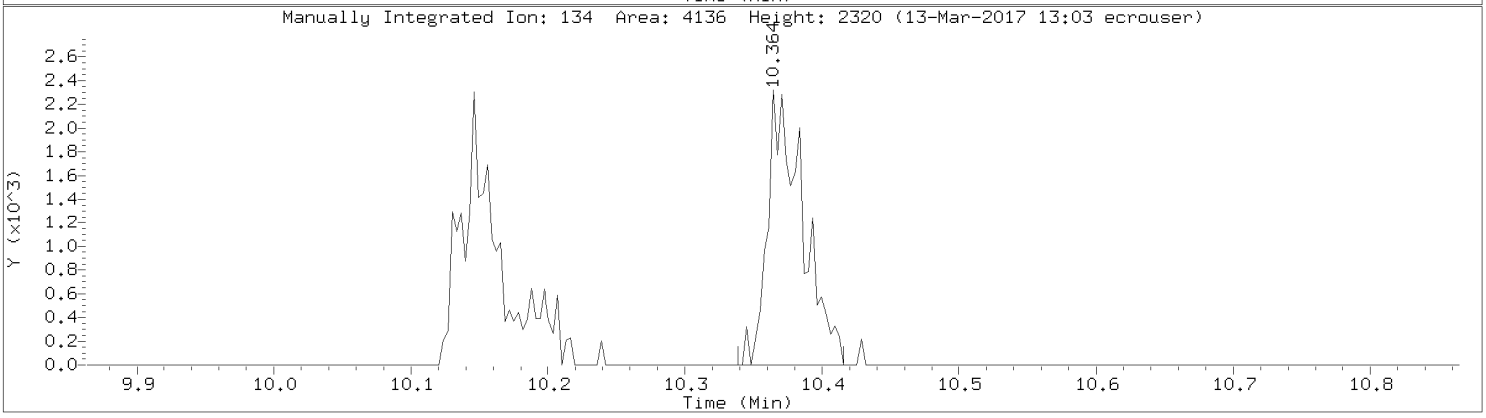
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: p-Isopropyltoluene
CAS Number: 99-87-6

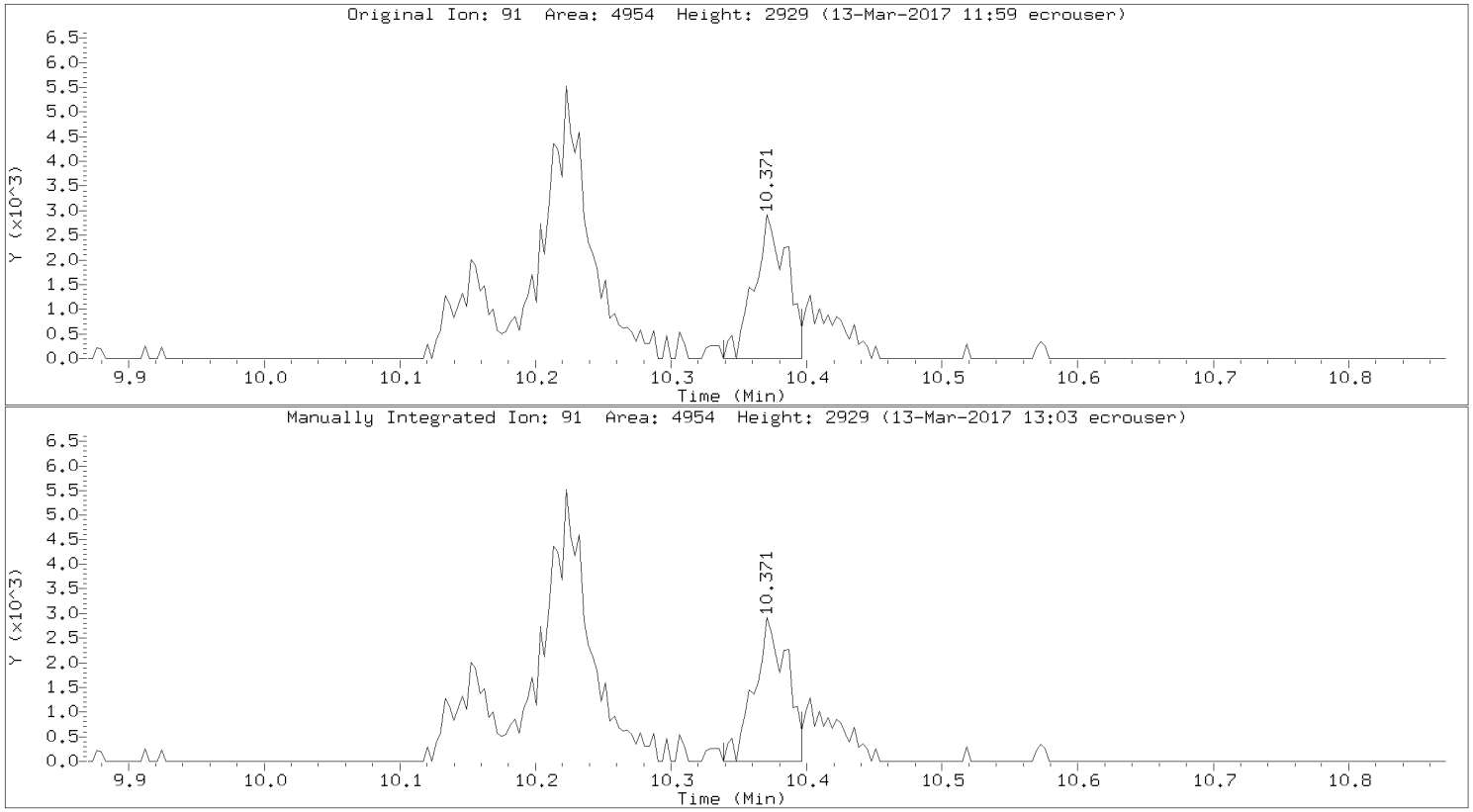






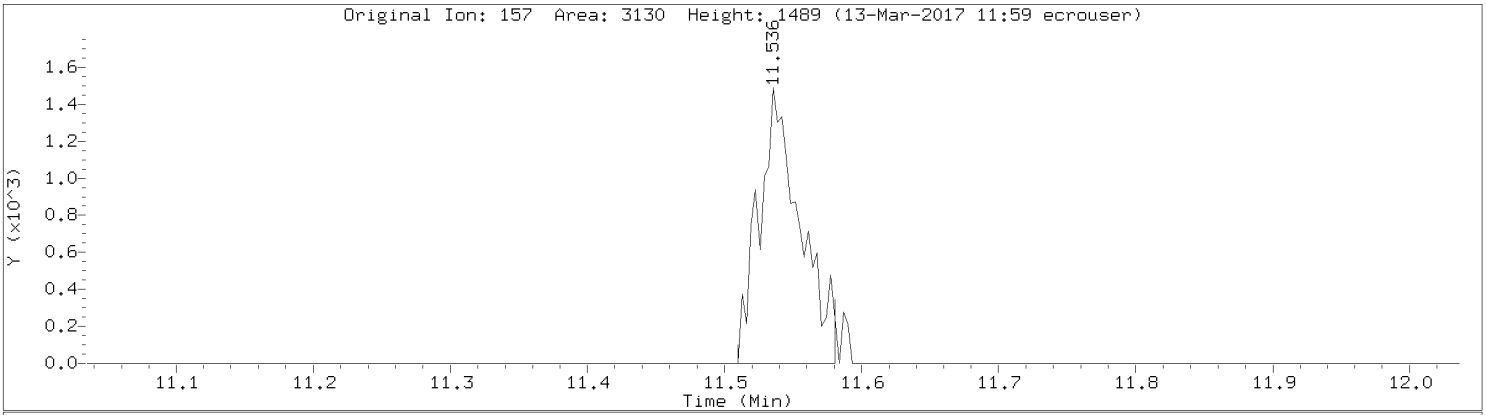


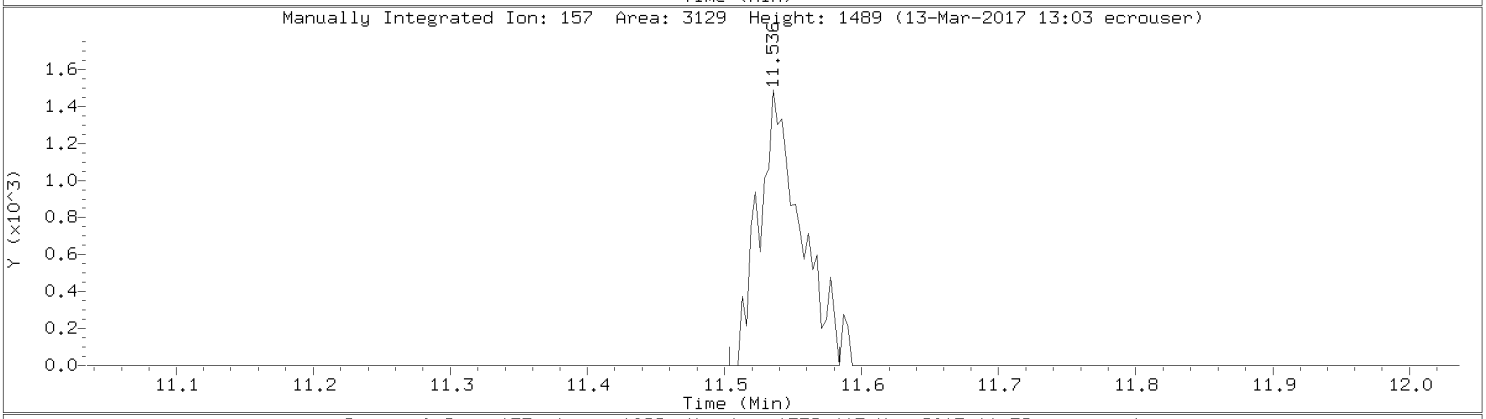
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

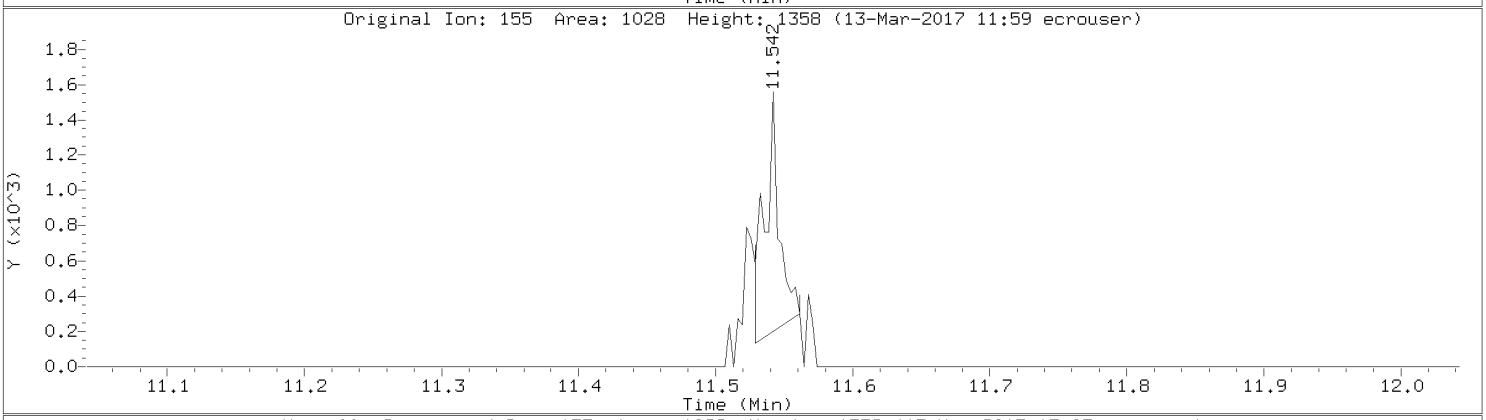


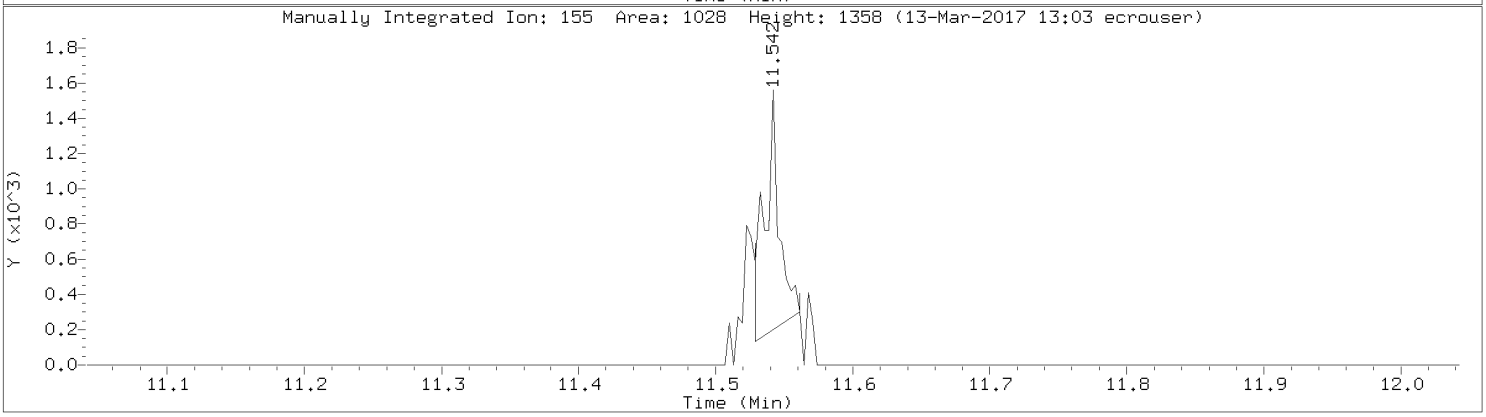
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

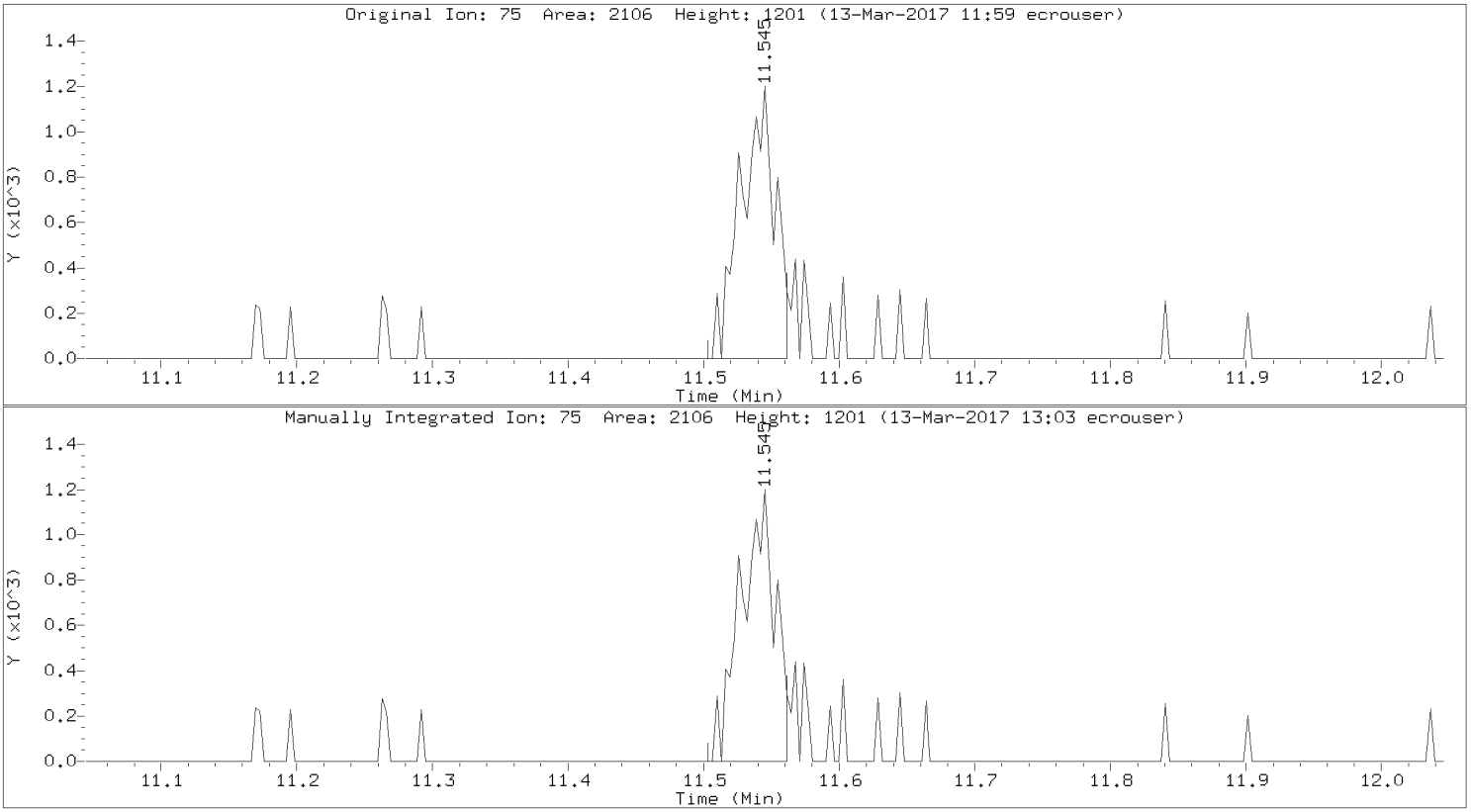








Data File: \\192.168.10.12\chem\10airD.i\031317.b/07206.d
Injection Date: 13-MAR-2017 10:21
Instrument: 10airD.i
Lab Sample ID: CAL2



Data File: \\192.168.10.12\chem\10airD.i\031317.b\07207.d
Report Date: 13-Mar-2017 13:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031317.b\07207.d
Lab Smp Id: CAL3
Inj Date : 13-MAR-2017 10:45
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Meth Date : 13-Mar-2017 12:53 ecrouser Quant Type: ISTD
Cal Date : 13-MAR-2017 10:45 Cal File: 07207.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.062	2.062	(0.487)	1520	0.50000	0.432
2	1,1-Difluoroethane	65	2.107	2.107	(0.497)	8006	0.50000	0.541
3	Chlorodifluoromethane	67	2.123	2.123	(0.501)	4286	0.50000	0.542
4	Propylene	41	2.130	2.130	(0.503)	25359	0.50000	0.498
5	Dichlorodifluoromethane	85	2.146	2.146	(0.506)	39527	0.50000	0.540
6	Dichlorotetrafluoroethane	85	2.213	2.213	(0.522)	39277	0.50000	0.549
7	Chloromethane	50	2.213	2.213	(0.522)	16962	0.50000	0.533
8	Vinyl chloride	62	2.271	2.271	(0.536)	12033	0.50000	0.496
9	1,3-Butadiene	54	2.300	2.300	(0.543)	8382	0.50000	0.512
10	Bromomethane	94	2.403	2.403	(0.567)	14084	0.50000	0.511
11	Chloroethane	64	2.438	2.438	(0.575)	4933	0.50000	0.515
12	Ethanol	45	2.496	2.496	(0.589)	15271	2.50000	2.35
13	Vinyl Bromide	106	2.528	2.528	(0.596)	12529	0.50000	0.488
14	Isopentane	43	2.534	2.534	(0.598)	15424	0.50000	0.538
15	Freon 123	83	2.544	2.544	(0.600)	33297	0.50000	0.514
16	Trichlorofluoromethane	101	2.595	2.595	(0.612)	40510	0.50000	0.539
17	Acrolein	56	2.608	2.608	(0.615)	4599	1.25000	0.854
18	Acetone	43	2.630	2.630	(0.621)	102087	2.50000	2.68(M)
19	Isopropyl Alcohol	45	2.662	2.662	(0.628)	86578	2.50000	2.66(M)
20	1,1-Dichloroethene	61	2.781	2.781	(0.656)	22232	0.50000	0.514
21	Acrylonitrile	53	2.804	2.804	(0.662)	17290	1.25000	1.19
24	Tert Butyl Alcohol (TBA)	59	2.817	2.817	(0.665)	58376	1.25000	1.31(M)
22	Freon 113	101	2.813	2.813	(0.664)	30203	0.50000	0.527

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07207.d
Report Date: 13-Mar-2017 13:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	23 Methyl Acetate	43	2.823	2.823	(0.666)	30860	0.50000	0.498
	25 Methylene chloride	49	2.858	2.858	(0.674)	80866	2.50000	2.79
	26 Allyl Chloride	76	2.868	2.868	(0.677)	6267	1.25000	1.03
	27 Carbon Disulfide	76	2.954	2.954	(0.697)	31381	0.50000	0.514
	28 trans-1,2-dichloroethene	96	3.076	3.076	(0.726)	10777	0.50000	0.518
	29 Methyl Tert Butyl Ether	73	3.109	3.109	(0.734)	77796	1.25000	1.39
	30 Vinyl Acetate	43	3.186	3.186	(0.752)	16963	0.50000	0.306
	31 1,1-Dichloroethane	63	3.182	3.182	(0.751)	23423	0.50000	0.513
$	32 Hexane-d14(S)	66	3.263	3.263	(0.770)	1331163	10.0000	9.91
	33 Methyl Ethyl Ketone	72	3.333	3.333	(0.786)	4824	0.50000	0.509
	34 n-Hexane	57	3.343	3.343	(0.789)	17270	0.50000	0.507
	35 Di-isopropyl Ether	45	3.365	3.365	(0.794)	44772	0.50000	0.528
	36 cis-1,2-Dichloroethene	96	3.455	3.455	(0.815)	11543	0.50000	0.495
	37 Ethyl Acetate	43	3.478	3.478	(0.821)	28073	0.50000	0.488
	38 Ethyl Tert-Butyl Ether	59	3.555	3.555	(0.839)	95574	1.25000	1.39
	39 Chloroform	83	3.551	3.551	(0.838)	32851	0.50000	0.544
	40 Tetrahydrofuran	42	3.709	3.709	(0.875)	14204	0.50000	0.510
	41 1,1,1-Trichloroethane	97	3.885	3.885	(0.917)	31990	0.50000	0.518
	42 1,2-Dichloroethane	62	3.904	3.904	(0.921)	21698	0.50000	0.495
	43 Benzene	78	4.094	4.094	(0.966)	37170	0.50000	0.540
	45 Carbon tetrachloride	117	4.106	4.106	(0.969)	28888	0.50000	0.486
	44 Cyclohexane	56	4.113	4.113	(0.970)	18661	0.50000	0.536
	46 Tert Amyl Methyl Ether	73	4.235	4.235	(0.999)	80740	0.50000	0.445
*	47 1,4-Difluorobenzene	114	4.238	4.238	(1.000)	2926570	10.0000	
	48 2,2,4-Trimethylpentane	57	4.366	4.366	(1.030)	163716	1.25000	1.52
	49 Heptane	43	4.482	4.482	(1.058)	27931	0.50000	0.541
	50 1,2-Dichloropropane	63	4.549	4.549	(1.073)	15837	0.50000	0.506
	51 Trichloroethene	130	4.559	4.559	(1.076)	20693	0.50000	0.518
	52 Methyl methacrylate	69	4.655	4.655	(1.098)	11206	0.50000	0.505
	53 Bromodichloromethane	83	4.652	4.652	(1.098)	33034	0.50000	0.493
	54 1,4-Dioxane	88	4.691	4.691	(1.107)	3857	0.50000	0.529
	55 Methylcyclohexane	98	4.954	4.954	(1.169)	7406	0.50000	0.531
	56 Methyl Isobutyl Ketone	43	5.092	5.092	(1.201)	87599	1.25000	1.37
	57 cis-1,3-Dichloropropene	75	5.127	5.127	(1.210)	20854	0.50000	0.486
	58 trans-1,3-Dichloropropene	75	5.499	5.499	(1.298)	16267	0.50000	0.440
$	59 Toluene-d8 (S)	98	5.557	5.557	(1.311)	2771018	10.0000	9.98
	60 Toluene	91	5.628	5.628	(1.328)	47710	0.50000	0.519
	61 1,1,2-Trichloroethane	97	5.637	5.637	(1.330)	18318	0.50000	0.504
	62 Methyl Butyl Ketone	43	5.884	5.884	(0.837)	79867	1.25000	1.36
	63 n-Octane	43	6.051	6.051	(0.861)	33550	0.50000	0.542
	64 Dibromochloromethane	129	6.118	6.118	(0.871)	28960	0.50000	0.445
	65 1,2-Dibromoethane	107	6.333	6.333	(0.901)	27919	0.50000	0.488
	66 Tetrachloroethene	166	6.404	6.404	(0.911)	32955	0.50000	0.532
*	67 Chlorobenzene - d5	117	7.027	7.027	(1.000)	2113767	10.0000	
	68 Chlorobenzene	112	7.065	7.065	(1.005)	37581	0.50000	0.518
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	57982	0.50000	0.502
	70 m&p-Xylene	91	7.450	7.450	(1.060)	94461	1.00000	1.08
	71 Bromoform	173	7.822	7.822	(1.113)	19660	0.50000	0.338
	72 n-Nonane	43	7.851	7.851	(1.117)	29871	0.50000	0.520
	73 Styrene	104	7.861	7.861	(1.119)	29576	0.50000	0.491
	74 o-Xylene	91	7.928	7.928	(1.128)	47060	0.50000	0.499
	75 1,1,2,2-Tetrachloroethane	83	8.191	8.191	(1.166)	30697	0.50000	0.477
	76 Isopropylbenzene	105	8.493	8.493	(1.209)	62145	0.50000	0.518
	77 N-Propylbenzene	91	9.055	9.055	(1.289)	62623	0.50000	0.501

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07207.d
Report Date: 13-Mar-2017 13:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.225	9.225	(1.313)	50099	0.50000	0.494
79	1,3,5-Trimethylbenzene	105	9.318	9.318	(1.326)	48900	0.50000	0.483(M)
80	n-Decane	57	9.719	9.719	(2.293)	23641	0.50000	0.520
81	Tert-Butyl Benzene	119	9.806	9.806	(1.395)	46848	0.50000	0.496
82	1,2,4-Trimethylbenzene	105	9.825	9.825	(1.398)	51743	0.50000	0.459
83	1,3-Dichlorobenzene	146	10.126	10.126	(1.441)	30283	0.50000	0.462
84	Sec- Butylbenzene	105	10.149	10.149	(1.444)	59202	0.50000	0.502
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.191	10.191	(1.450)	1048178	10.0000	9.53
86	Benzyl Chloride	91	10.223	10.223	(1.455)	30447	0.50000	0.458
87	1,4-Dichlorobenzene	146	10.232	10.232	(1.456)	32771	0.50000	0.489
88	p-Isopropyltoluene	119	10.377	10.377	(1.477)	54991	0.50000	0.509
89	1,2,3-Trimethylbenzene	105	10.406	10.406	(1.481)	43074	0.50000	0.513
90	1,2-Dichlorobenzene	146	10.701	10.701	(1.523)	30054	0.50000	0.489
91	N-Butylbenzene	91	10.967	10.967	(1.561)	45818	0.50000	0.502
92	1,2-Dibromo-3-Chloropropane	157	11.525	11.525	(1.640)	6824	0.50000	0.395
93	1,2,4-Trichlorobenzene	180	12.844	12.844	(1.828)	11403	0.50000	0.422
94	Naphthalene	128	12.963	12.963	(1.845)	22320	0.50000	0.439
95	Hexachlorobutadiene	225	13.220	13.220	(1.881)	17472	0.50000	0.528

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07207.d
Report Date: 13-Mar-2017 13:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07207.d
Lab Smp Id: CAL3
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Misc Info:

Calibration Date: 13-MAR-2017
Calibration Time: 11:34
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

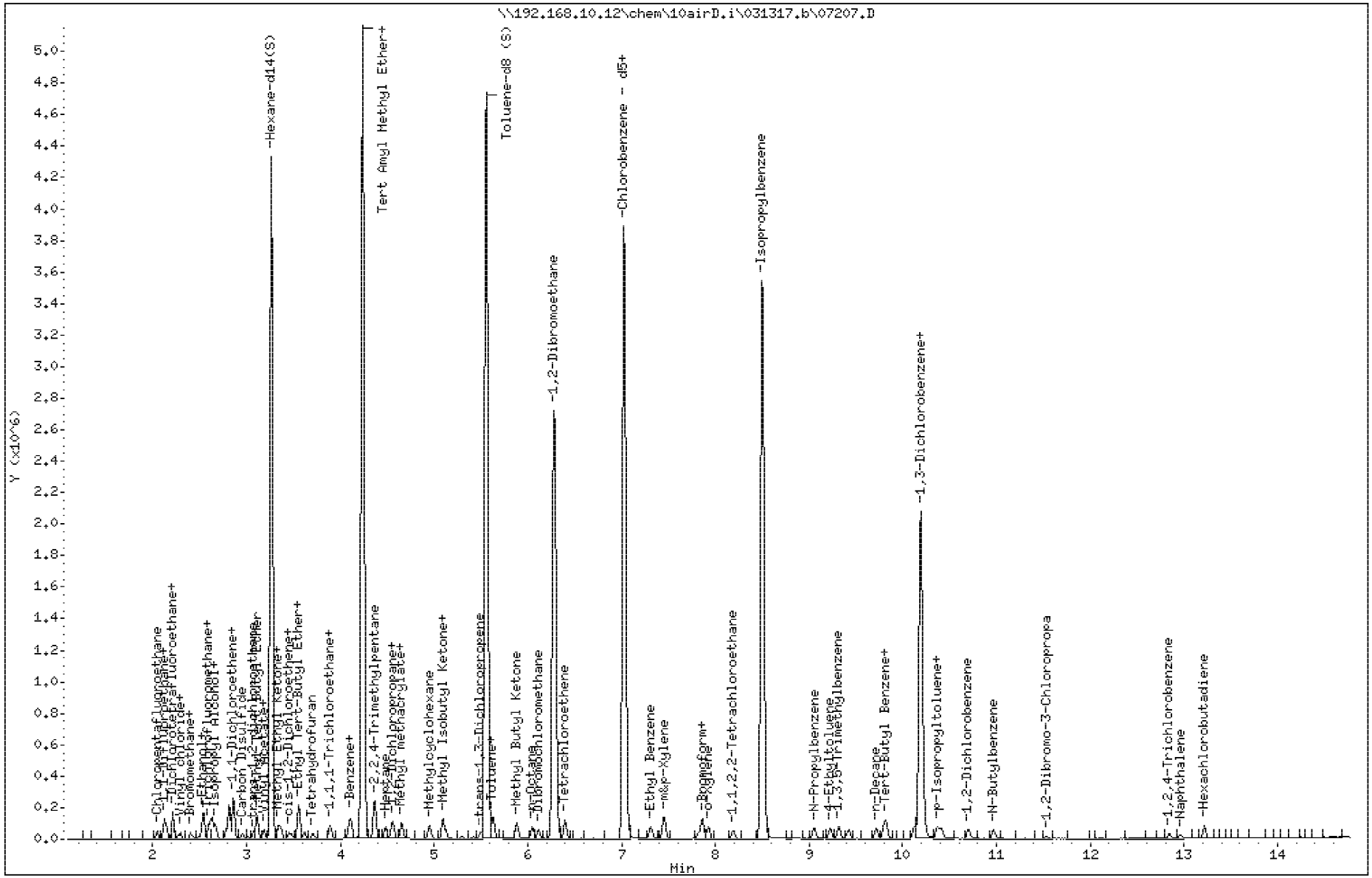
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2916193	1749716	4082670	2926570	0.36
67 Chlorobenzene - d	2134582	1280749	2988415	2113767	-0.98

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.22
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

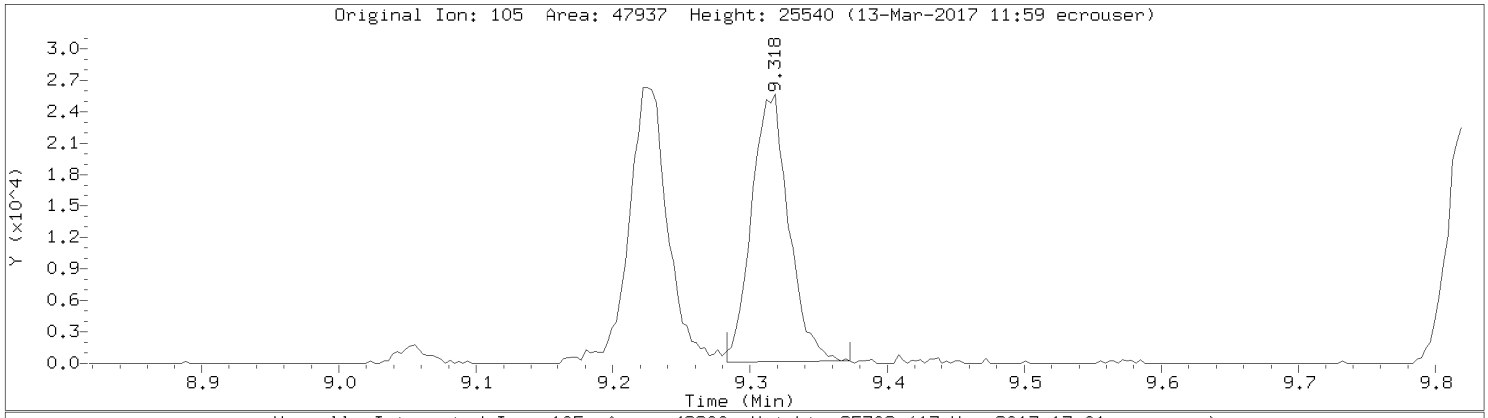
Data File: \\192.168.10.12\chem\10airD.i\031317.b\07207.D
Date : 13-MAR-2017 10:45
Client ID:
Sample Info:

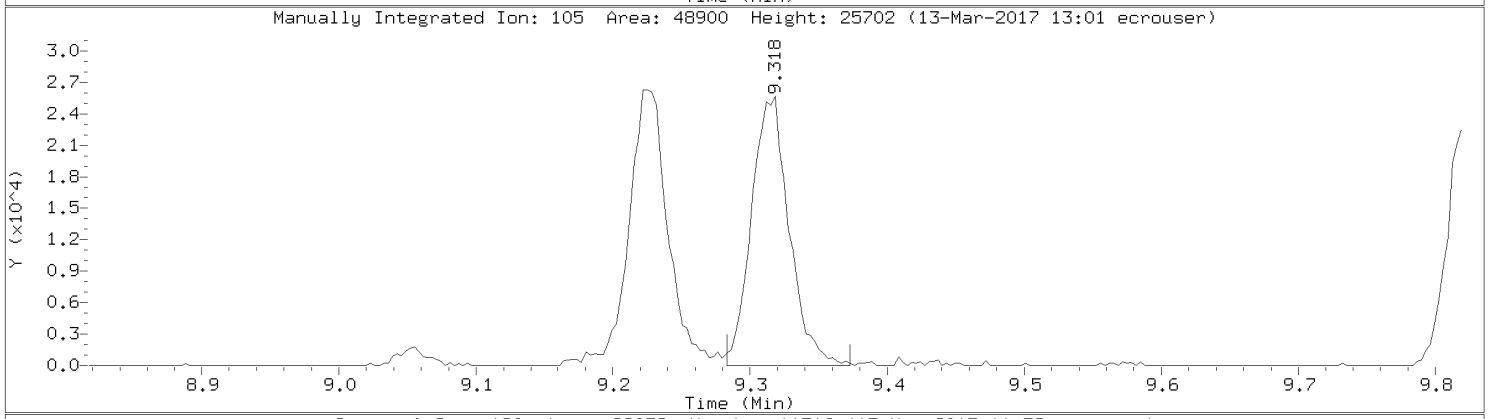
Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

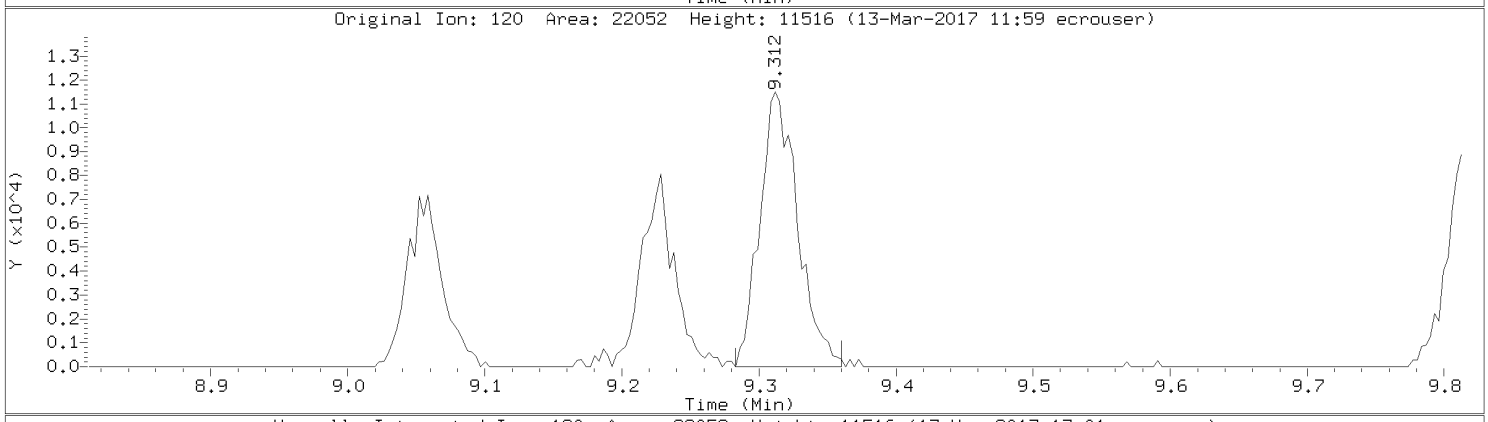


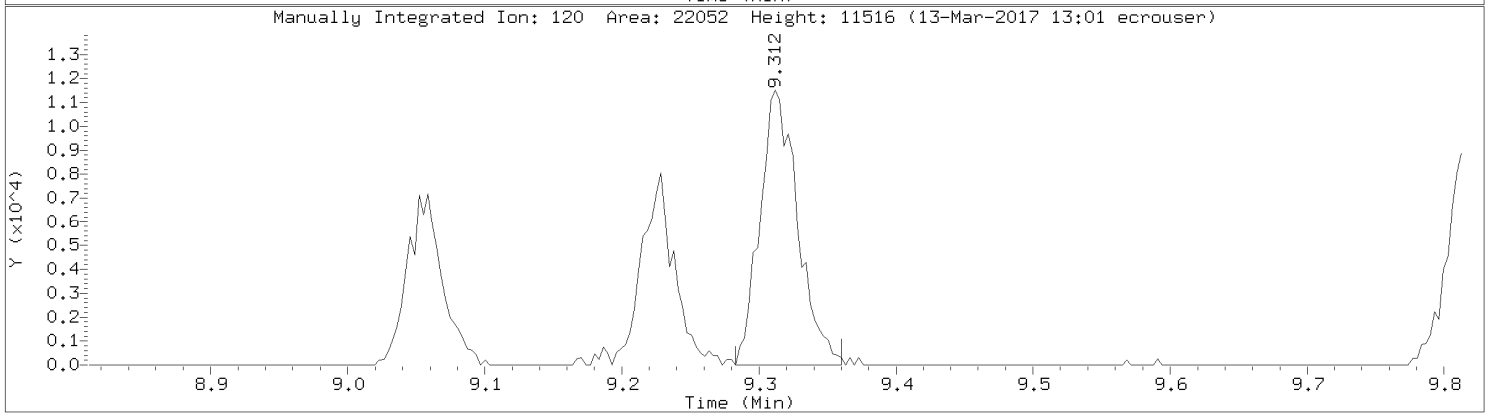
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07207.d
Injection Date: 13-MAR-2017 10:45
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



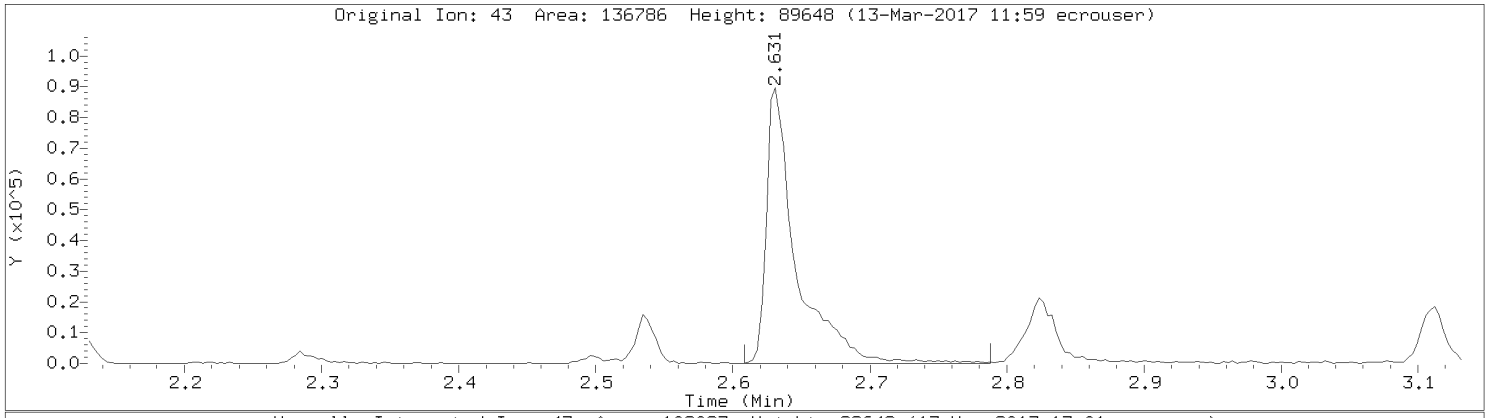


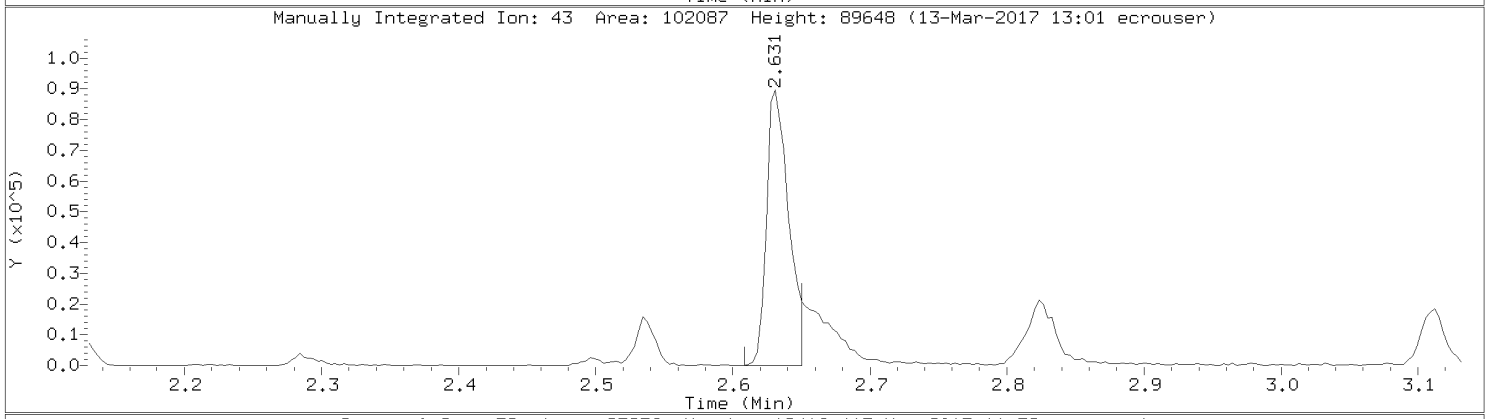


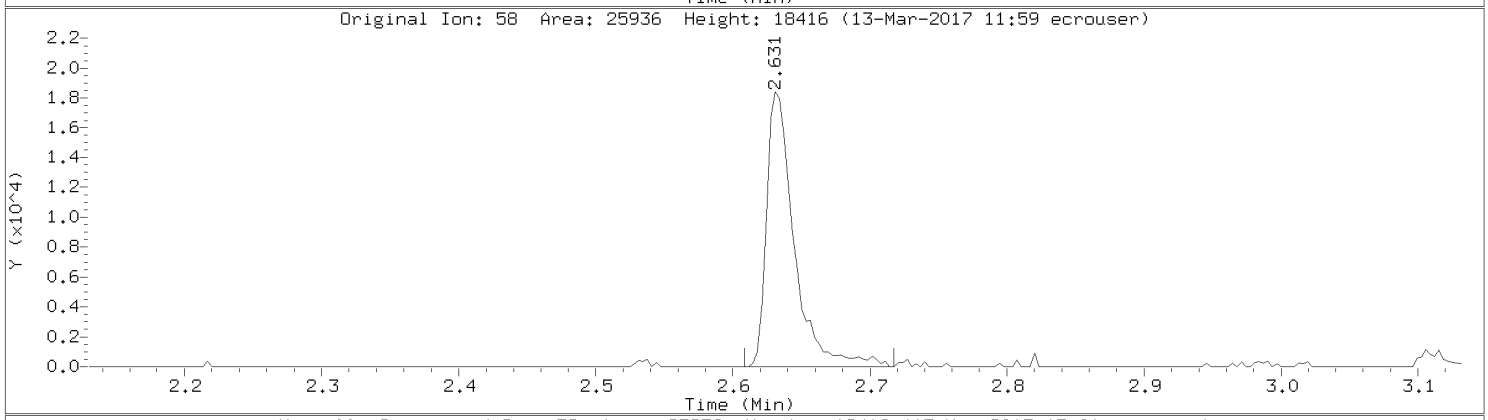


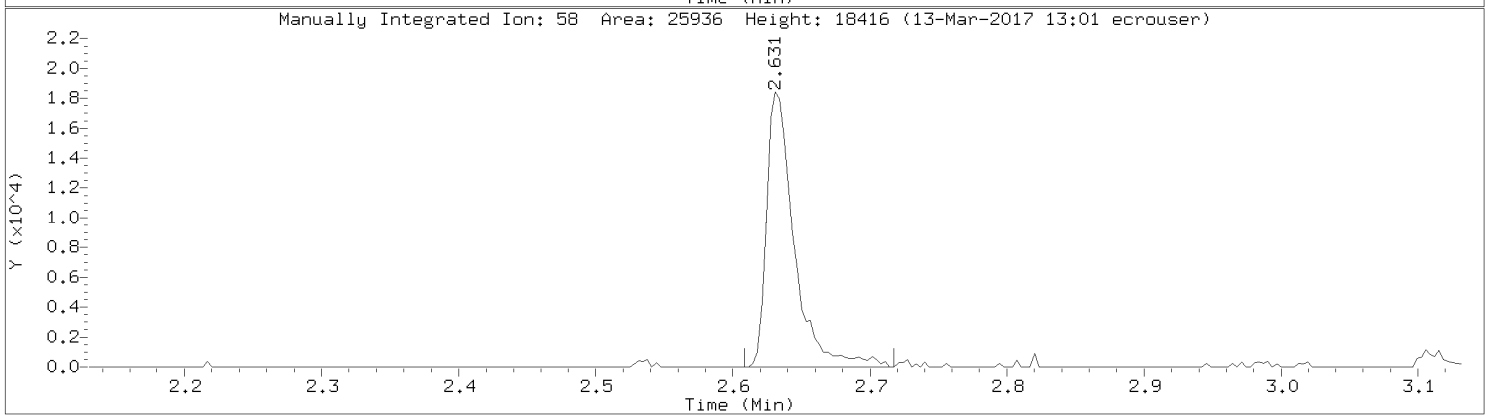
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07207.d
Injection Date: 13-MAR-2017 10:45
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Acetone
CAS Number: 67-64-1



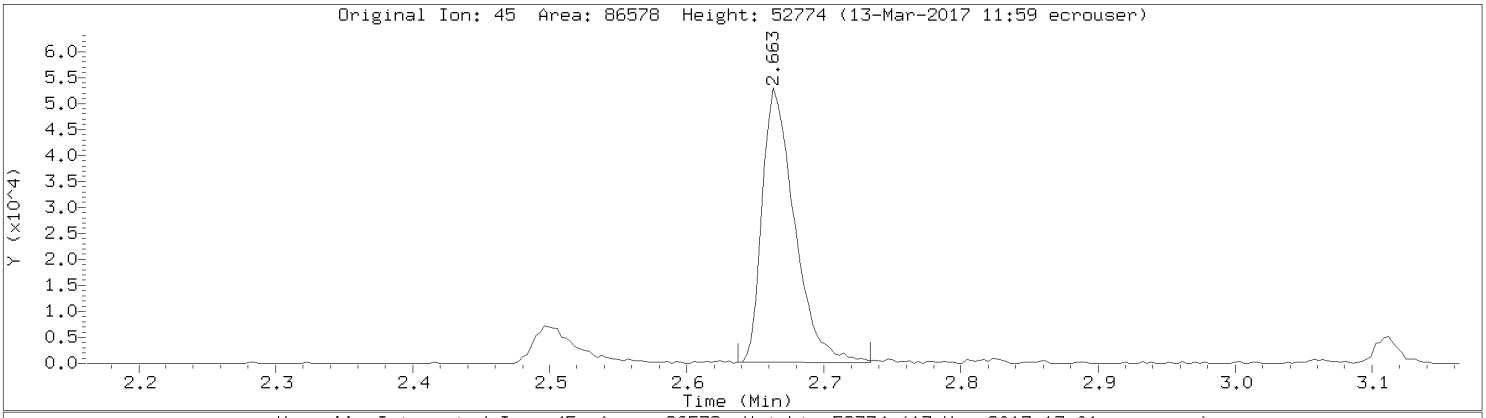


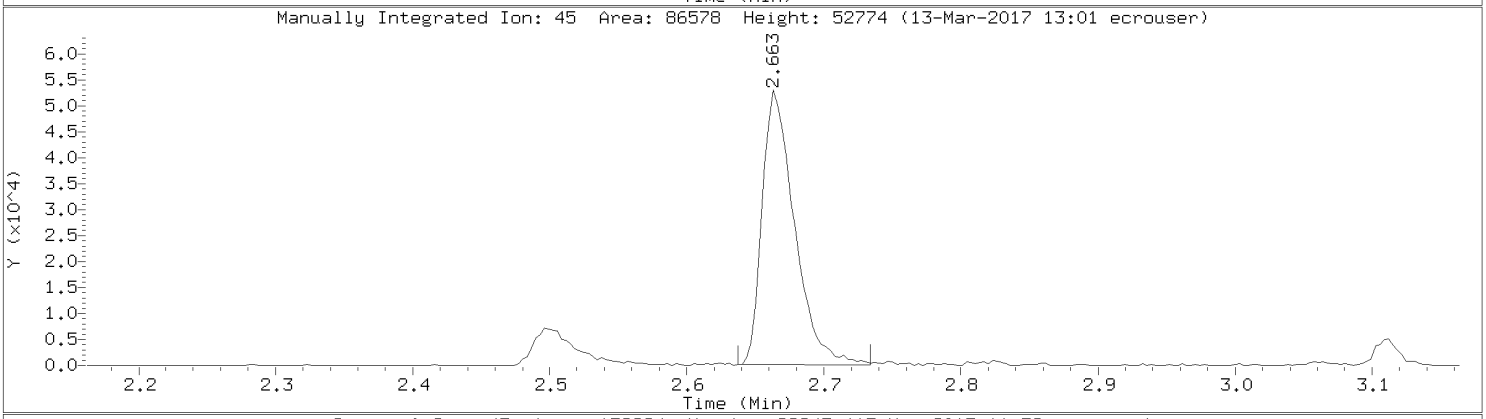


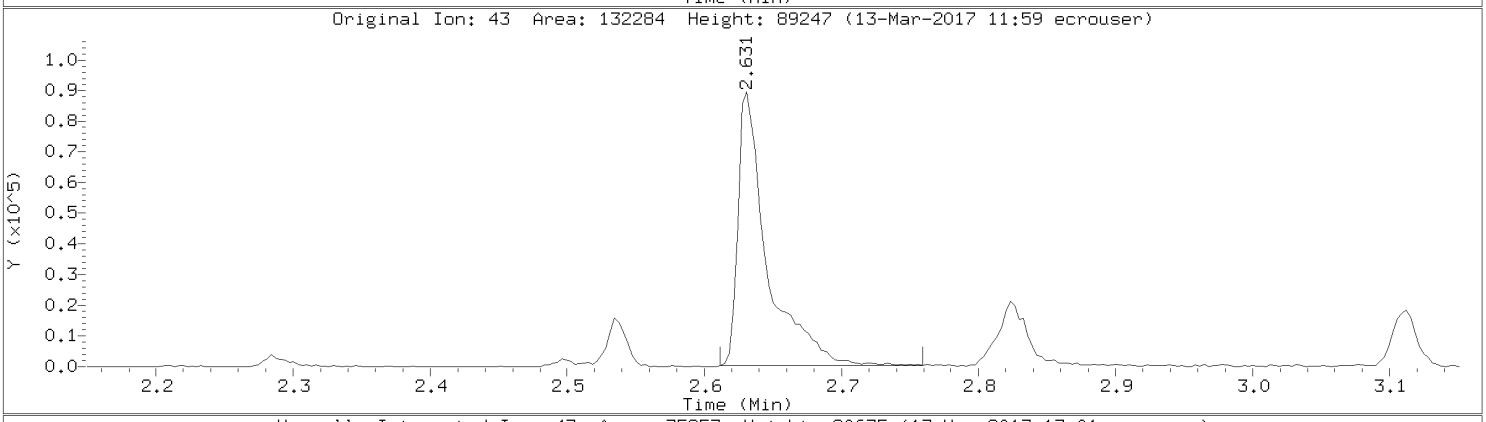


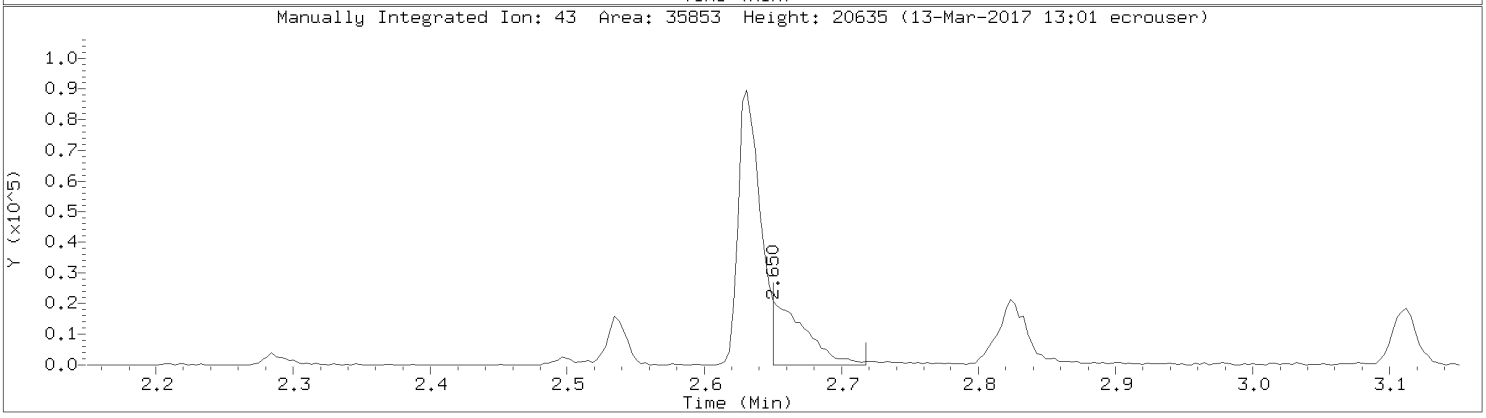
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07207.d
Injection Date: 13-MAR-2017 10:45
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



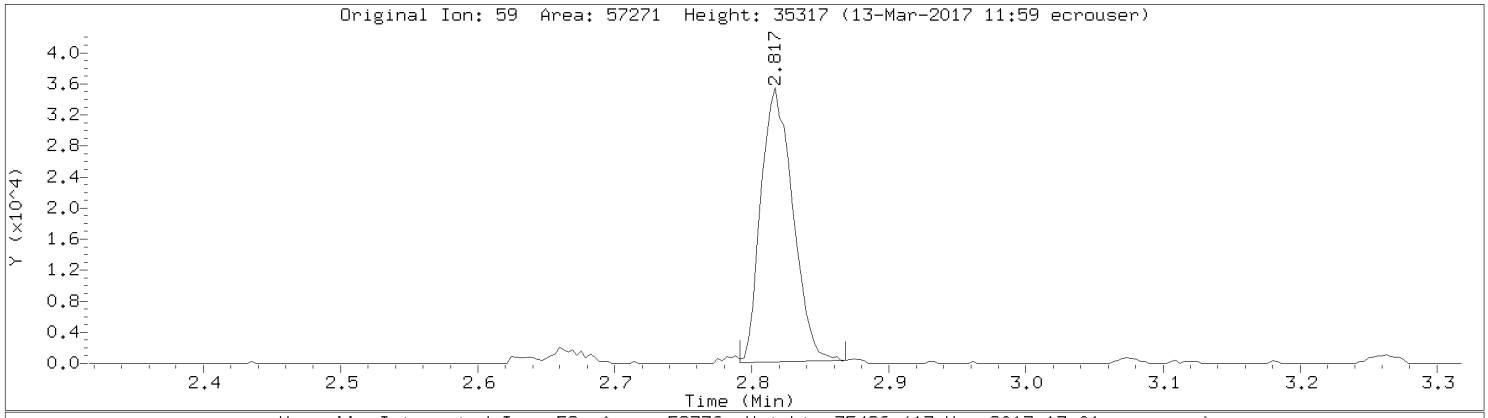


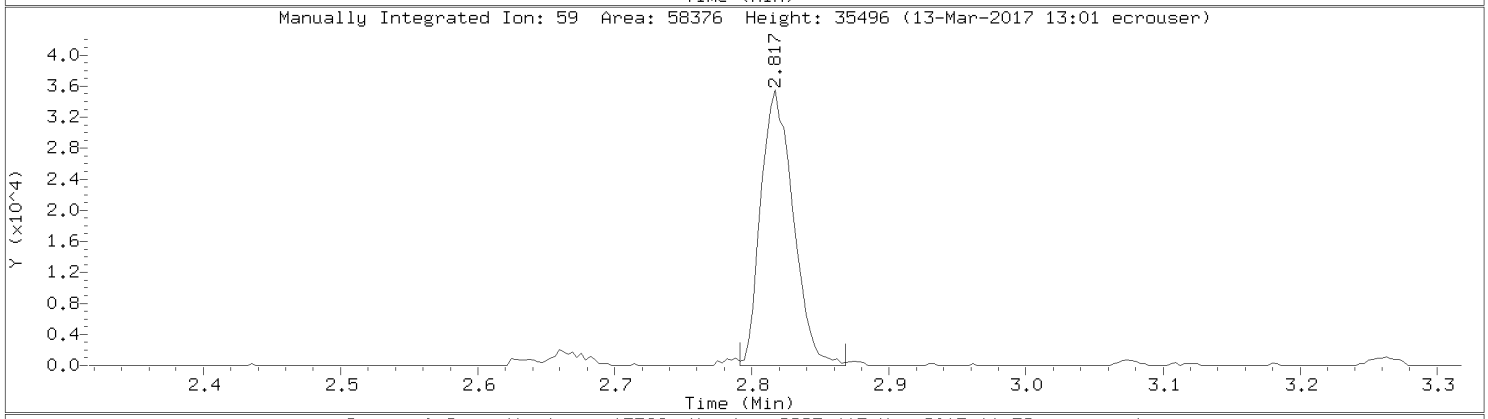


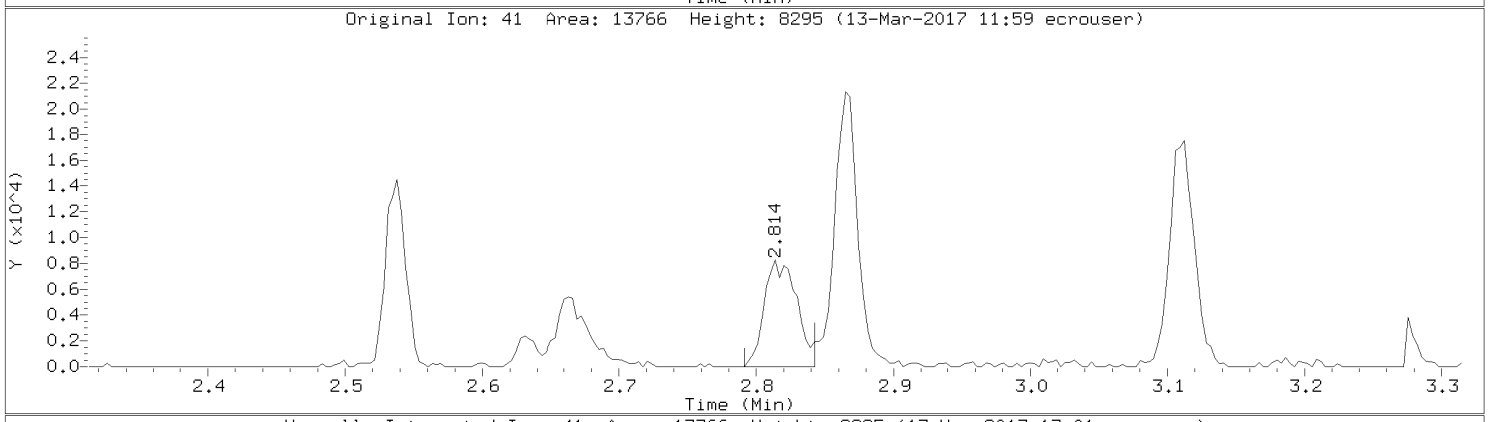


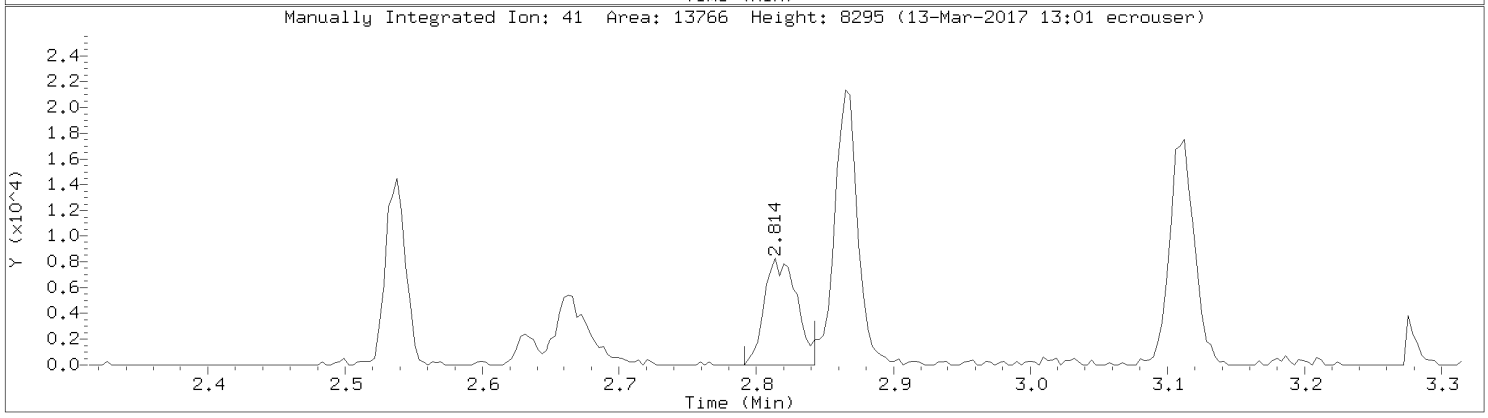
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07207.d
Injection Date: 13-MAR-2017 10:45
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0









Data File: \\192.168.10.12\chem\10airD.i\031317.b\07208.d
Report Date: 13-Mar-2017 13:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031317.b\07208.d
Lab Smp Id: CAL4
Inj Date : 13-MAR-2017 11:11
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Meth Date : 13-Mar-2017 12:53 ecrouser Quant Type: ISTD
Cal Date : 13-MAR-2017 11:11 Cal File: 07208.d
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.065	2.065	(0.487)	1844	1.00000	0.529
2	1,1-Difluoroethane	65	2.110	2.110	(0.498)	15219	1.00000	1.04
3	Chlorodifluoromethane	67	2.123	2.123	(0.501)	8423	1.00000	1.08
4	Propylene	41	2.126	2.126	(0.501)	50489	1.00000	1.00
5	Dichlorodifluoromethane	85	2.149	2.149	(0.507)	81941	1.00000	1.13
6	Dichlorotetrafluoroethane	85	2.213	2.213	(0.522)	81106	1.00000	1.15
7	Chloromethane	50	2.216	2.216	(0.523)	33829	1.00000	1.07
8	Vinyl chloride	62	2.274	2.274	(0.536)	25856	1.00000	1.08
9	1,3-Butadiene	54	2.300	2.300	(0.542)	18007	1.00000	1.11
10	Bromomethane	94	2.402	2.402	(0.566)	28879	1.00000	1.06
11	Chloroethane	64	2.441	2.441	(0.576)	10643	1.00000	1.12
12	Ethanol	45	2.495	2.495	(0.588)	31835	5.00000	4.96
13	Vinyl Bromide	106	2.531	2.531	(0.597)	26596	1.00000	1.05
14	Isopentane	43	2.540	2.540	(0.599)	30843	1.00000	1.09
15	Freon 123	83	2.547	2.547	(0.601)	69695	1.00000	1.09
16	Trichlorofluoromethane	101	2.598	2.598	(0.613)	83916	1.00000	1.13
17	Acrolein	56	2.605	2.605	(0.614)	12779	2.50000	2.40
18	Acetone	43	2.630	2.630	(0.620)	231236	5.00000	5.83(M)
19	Isopropyl Alcohol	45	2.662	2.662	(0.628)	172096	5.00000	5.35(M)
20	1,1-Dichloroethene	61	2.784	2.784	(0.657)	47337	1.00000	1.11
21	Acrylonitrile	53	2.800	2.800	(0.660)	40859	2.50000	2.85
24	Tert Butyl Alcohol (TBA)	59	2.816	2.816	(0.664)	120827	2.50000	2.75(M)
22	Freon 113	101	2.816	2.816	(0.664)	63217	1.00000	1.11

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07208.d
Report Date: 13-Mar-2017 13:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.826	2.826	(0.666)	63291	1.00000	1.03
	25 Methylene chloride	49	2.861	2.861	(0.675)	166623	5.00000	5.80
	26 Allyl Chloride	76	2.871	2.871	(0.677)	13039	2.50000	2.16
	27 Carbon Disulfide	76	2.957	2.957	(0.697)	65419	1.00000	1.08
	28 trans-1,2-dichloroethene	96	3.079	3.079	(0.726)	22317	1.00000	1.08
	29 Methyl Tert Butyl Ether	73	3.112	3.112	(0.734)	161598	2.50000	2.92
	30 Vinyl Acetate	43	3.185	3.185	(0.751)	37067	1.00000	0.674(M)
	31 1,1-Dichloroethane	63	3.189	3.189	(0.752)	50268	1.00000	1.11
$	32 Hexane-d14(S)	66	3.266	3.266	(0.770)	1328146	10.0000	9.99
	33 Methyl Ethyl Ketone	72	3.333	3.333	(0.786)	10908	1.00000	1.16
	34 n-Hexane	57	3.346	3.346	(0.789)	36787	1.00000	1.09
	35 Di-isopropyl Ether	45	3.365	3.365	(0.793)	90952	1.00000	1.08
	36 cis-1,2-Dichloroethene	96	3.458	3.458	(0.815)	24315	1.00000	1.05
	37 Ethyl Acetate	43	3.477	3.477	(0.820)	56946	1.00000	1.000
	38 Ethyl Tert-Butyl Ether	59	3.558	3.558	(0.839)	203273	2.50000	2.99
	39 Chloroform	83	3.554	3.554	(0.838)	65541	1.00000	1.10
	40 Tetrahydrofuran	42	3.705	3.705	(0.874)	30432	1.00000	1.10
	41 1,1,1-Trichloroethane	97	3.888	3.888	(0.917)	67560	1.00000	1.10
	42 1,2-Dichloroethane	62	3.901	3.901	(0.920)	46680	1.00000	1.08
	43 Benzene	78	4.097	4.097	(0.966)	70484	1.00000	1.04
	45 Carbon tetrachloride	117	4.109	4.109	(0.969)	58331	1.00000	0.992
	44 Cyclohexane	56	4.116	4.116	(0.970)	40123	1.00000	1.16
	46 Tert Amyl Methyl Ether	73	4.238	4.238	(0.999)	116973	1.00000	0.652
*	47 1,4-Difluorobenzene	114	4.241	4.241	(1.000)	2897433	10.0000	
	48 2,2,4-Trimethylpentane	57	4.366	4.366	(1.030)	341712	2.50000	3.21
	49 Heptane	43	4.485	4.485	(1.057)	57504	1.00000	1.13
	50 1,2-Dichloropropane	63	4.546	4.546	(1.072)	32610	1.00000	1.05
	51 Trichloroethene	130	4.565	4.565	(1.076)	43057	1.00000	1.09
	52 Methyl methacrylate	69	4.649	4.649	(1.096)	25430	1.00000	1.16
	53 Bromodichloromethane	83	4.655	4.655	(1.098)	68703	1.00000	1.04
	54 1,4-Dioxane	88	4.684	4.684	(1.104)	8154	1.00000	1.13
	55 Methylcyclohexane	98	4.953	4.953	(1.168)	15801	1.00000	1.14
	56 Methyl Isobutyl Ketone	43	5.091	5.091	(1.200)	184993	2.50000	2.92
	57 cis-1,3-Dichloropropene	75	5.124	5.124	(1.208)	43479	1.00000	1.02
	58 trans-1,3-Dichloropropene	75	5.505	5.505	(1.298)	34921	1.00000	0.955
$	59 Toluene-d8 (S)	98	5.560	5.560	(1.311)	2729178	10.0000	9.93
	60 Toluene	91	5.631	5.631	(1.328)	97466	1.00000	1.07
	61 1,1,2-Trichloroethane	97	5.637	5.637	(1.329)	37282	1.00000	1.04
	62 Methyl Butyl Ketone	43	5.881	5.881	(0.837)	172373	2.50000	2.97
	63 n-Octane	43	6.051	6.051	(0.861)	67988	1.00000	1.11
	64 Dibromochloromethane	129	6.115	6.115	(0.870)	62995	1.00000	0.983
	65 1,2-Dibromoethane	107	6.333	6.333	(0.901)	59229	1.00000	1.05
	66 Tetrachloroethene	166	6.397	6.397	(0.910)	68434	1.00000	1.12
*	67 Chlorobenzene - d5	117	7.026	7.026	(1.000)	2083453	10.0000	
	68 Chlorobenzene	112	7.068	7.068	(1.006)	76936	1.00000	1.08
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	124103	1.00000	1.09(M)
	70 m&p-Xylene	91	7.456	7.456	(1.061)	192285	2.00000	2.23
	71 Bromoform	173	7.819	7.819	(1.113)	42132	1.00000	0.735
	72 n-Nonane	43	7.857	7.857	(1.118)	63772	1.00000	1.13
	73 Styrene	104	7.864	7.864	(1.119)	61429	1.00000	1.03
	74 o-Xylene	91	7.925	7.925	(1.128)	96695	1.00000	1.04
	75 1,1,2,2-Tetrachloroethane	83	8.188	8.188	(1.165)	64595	1.00000	1.02
	76 Isopropylbenzene	105	8.493	8.493	(1.209)	122787	1.00000	1.04
	77 N-Propylbenzene	91	9.051	9.051	(1.288)	133521	1.00000	1.08

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07208.d
Report Date: 13-Mar-2017 13:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.228	9.228	(1.313)	111923	1.00000	1.12
79	1,3,5-Trimethylbenzene	105	9.318	9.318	(1.326)	100053	1.00000	1.01(M)
80	n-Decane	57	9.715	9.715	(2.291)	49918	1.00000	1.11
81	Tert-Butyl Benzene	119	9.805	9.805	(1.395)	101108	1.00000	1.09
82	1,2,4-Trimethylbenzene	105	9.821	9.821	(1.398)	103246	1.00000	0.929
83	1,3-Dichlorobenzene	146	10.120	10.120	(1.440)	63527	1.00000	0.983
84	Sec- Butylbenzene	105	10.149	10.149	(1.444)	128331	1.00000	1.10
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1029649	10.0000	9.50
86	Benzyl Chloride	91	10.216	10.216	(1.454)	64255	1.00000	0.980(M)
87	1,4-Dichlorobenzene	146	10.235	10.235	(1.457)	65740	1.00000	0.995
88	p-Isopropyltoluene	119	10.370	10.370	(1.476)	114233	1.00000	1.07
89	1,2,3-Trimethylbenzene	105	10.412	10.412	(1.482)	83220	1.00000	1.01
90	1,2-Dichlorobenzene	146	10.701	10.701	(1.523)	62579	1.00000	1.03
91	N-Butylbenzene	91	10.964	10.964	(1.560)	96109	1.00000	1.07
92	1,2-Dibromo-3-Chloropropane	157	11.532	11.532	(1.641)	14034	1.00000	0.824
93	1,2,4-Trichlorobenzene	180	12.838	12.838	(1.827)	24652	1.00000	0.925
94	Naphthalene	128	12.956	12.956	(1.844)	45035	1.00000	0.899
95	Hexachlorobutadiene	225	13.216	13.216	(1.881)	34694	1.00000	1.06

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07208.d
Report Date: 13-Mar-2017 13:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07208.d
Lab Smp Id: CAL4
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Misc Info:

Calibration Date: 13-MAR-2017
Calibration Time: 11:34
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2916193	1749716	4082670	2897433	-0.64
67 Chlorobenzene - d	2134582	1280749	2988415	2083453	-2.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07208.D

Date : 13-MAR-2017 11:11

Client ID:

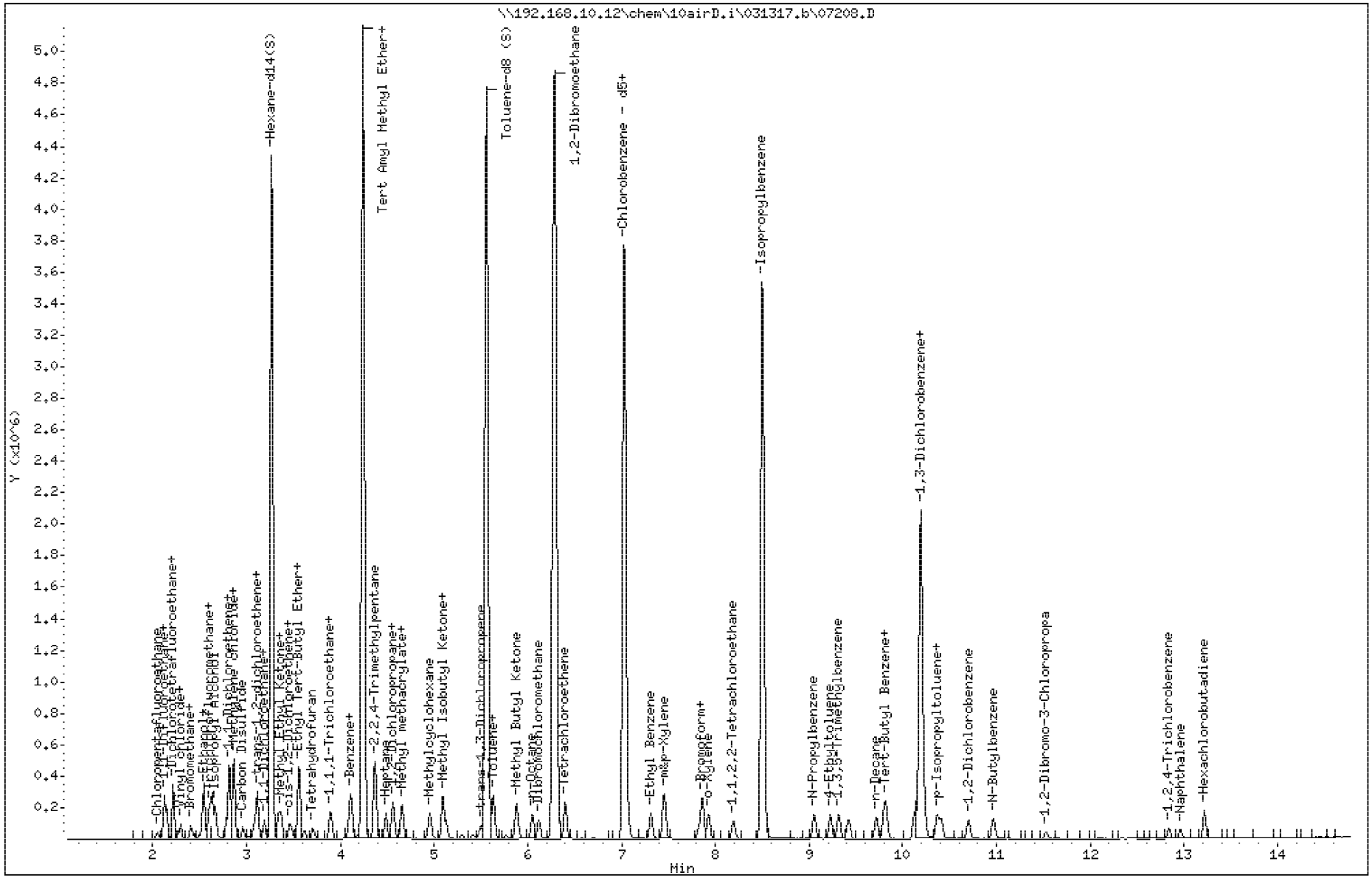
Instrument: 10airD.i

Sample Info:

Operator: EMC

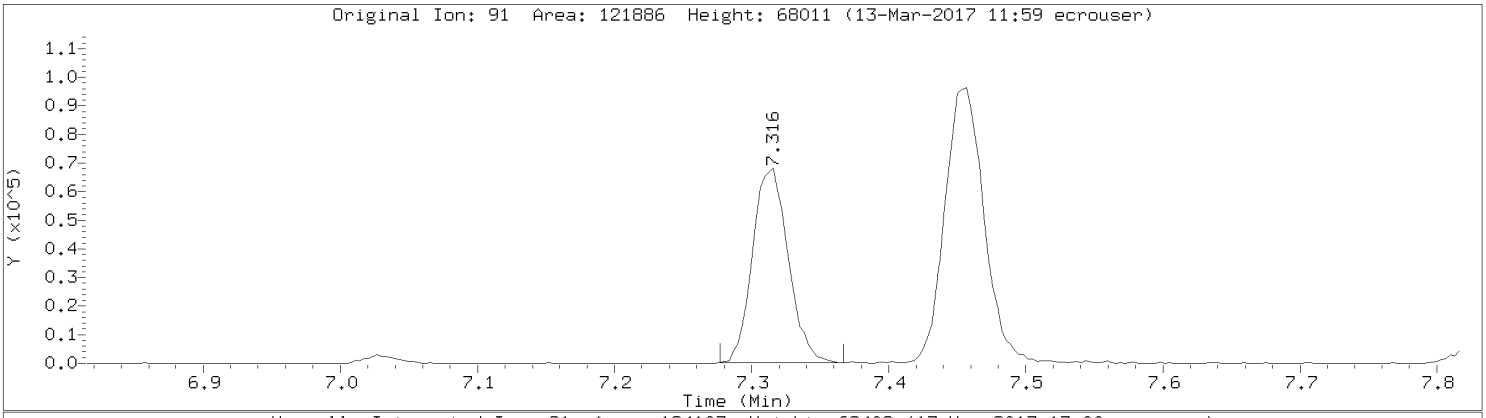
Column phase: J&W DB-5

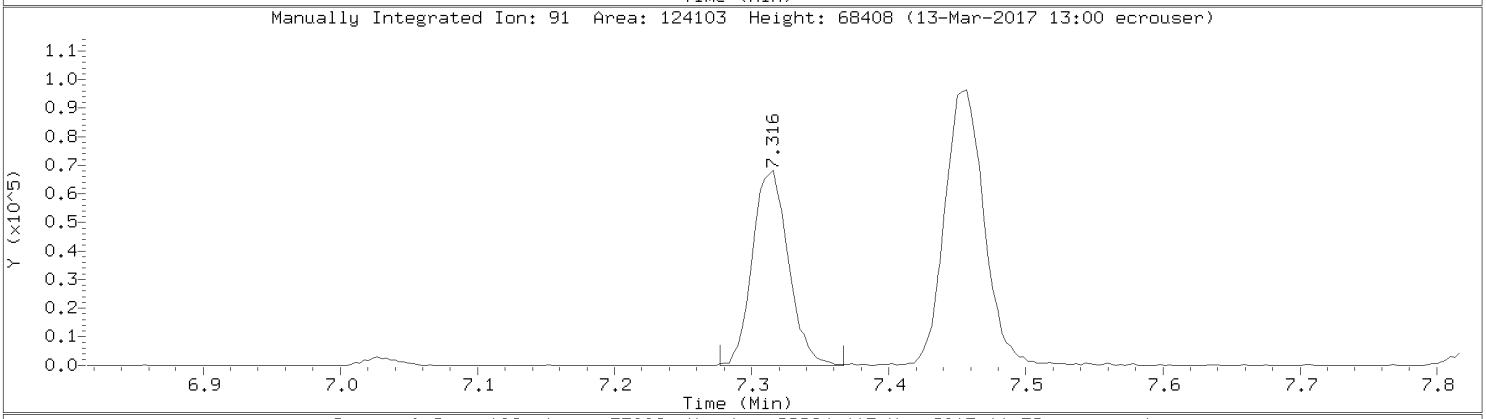
Column diameter: 0.32

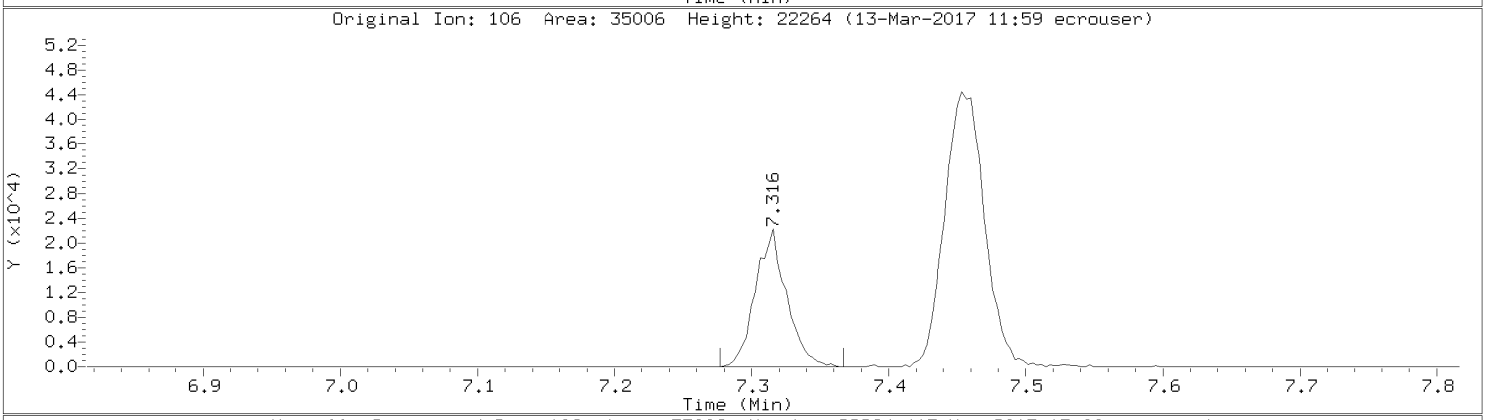


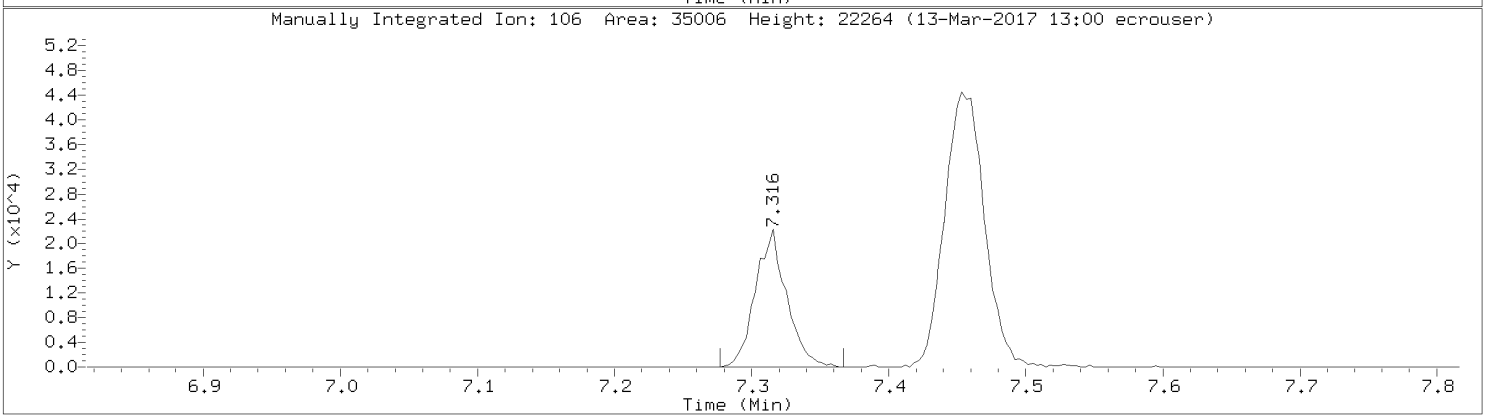
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07208.d
Injection Date: 13-MAR-2017 11:11
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Ethyl Benzene
CAS Number: 100-41-4



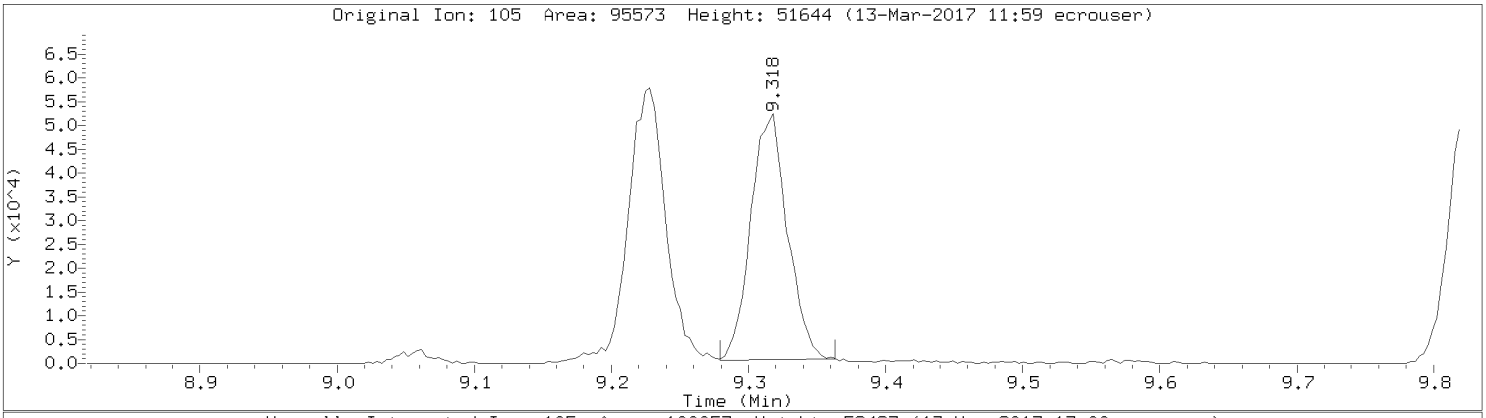


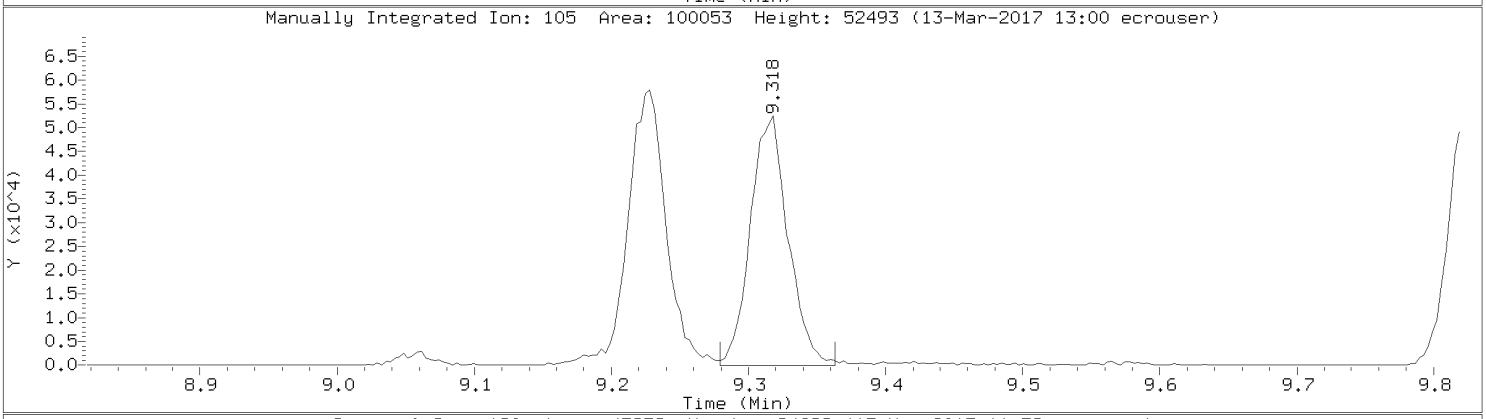


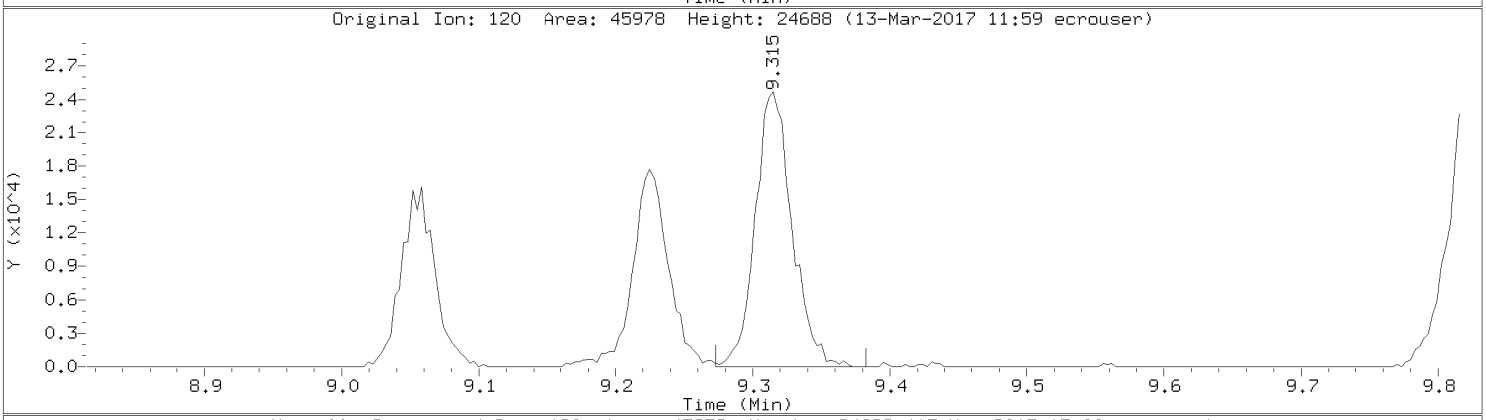


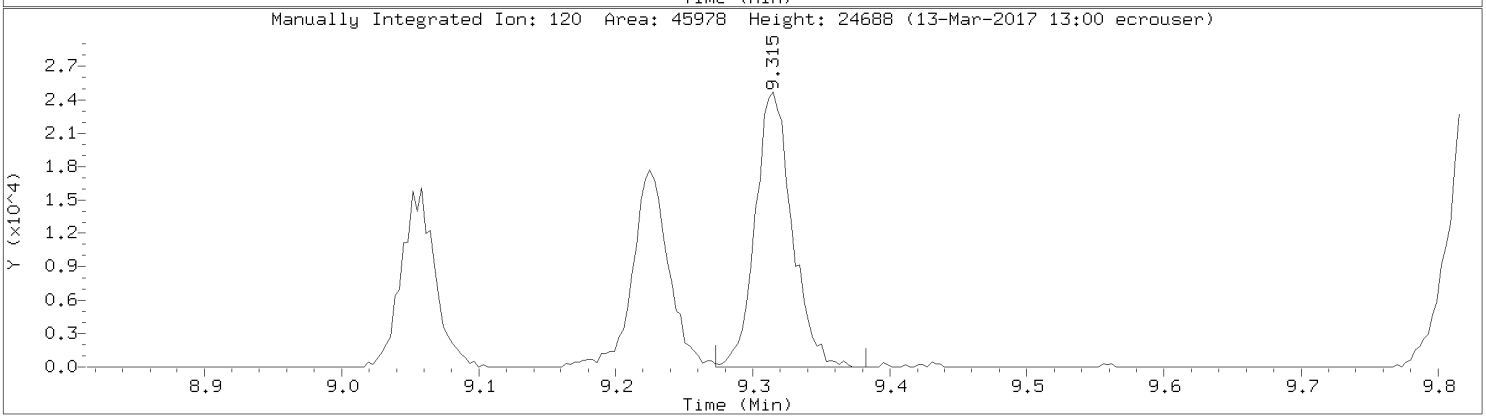
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07208.d
Injection Date: 13-MAR-2017 11:11
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



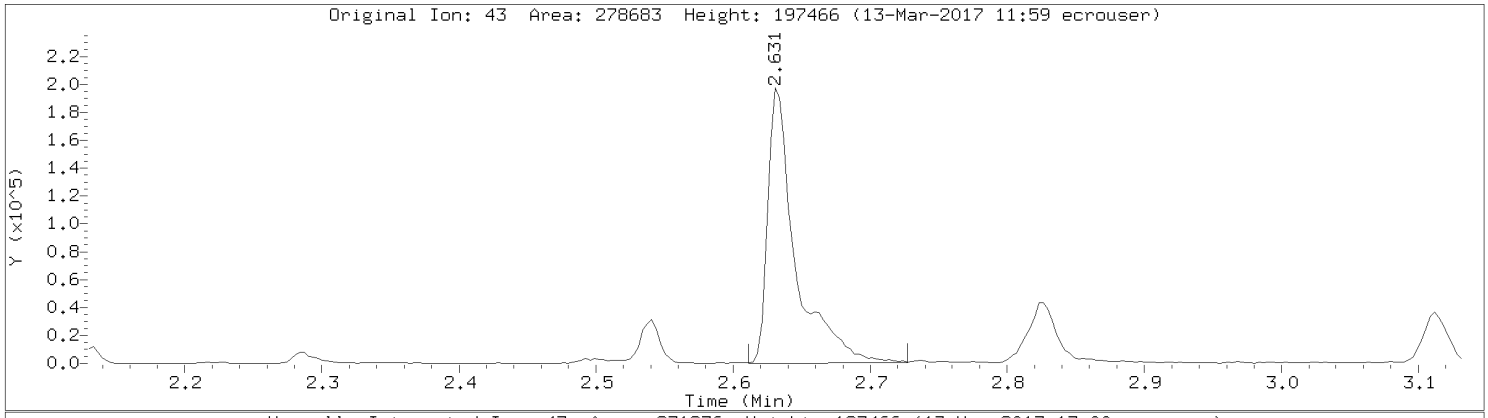


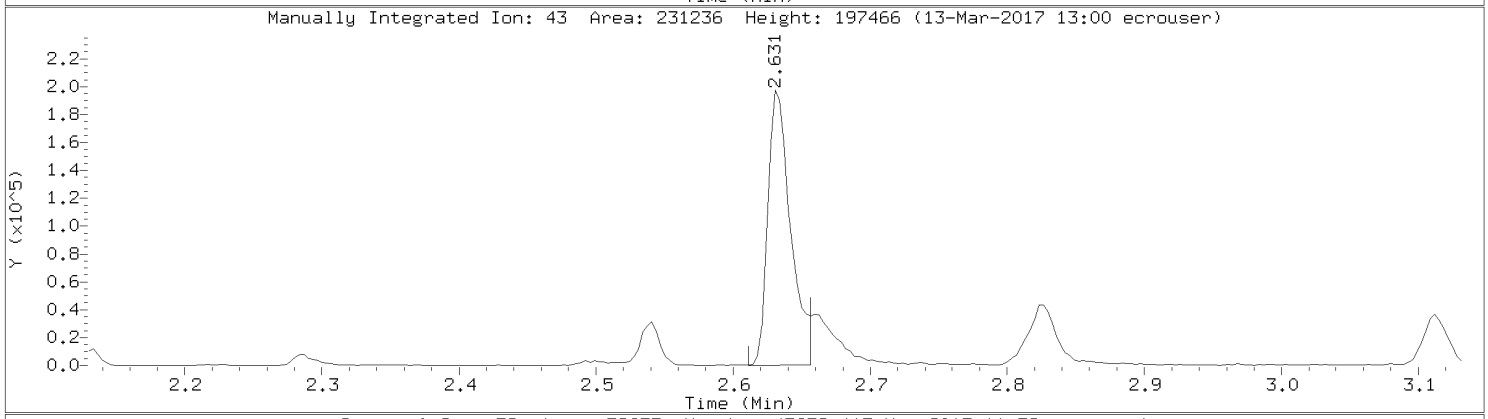


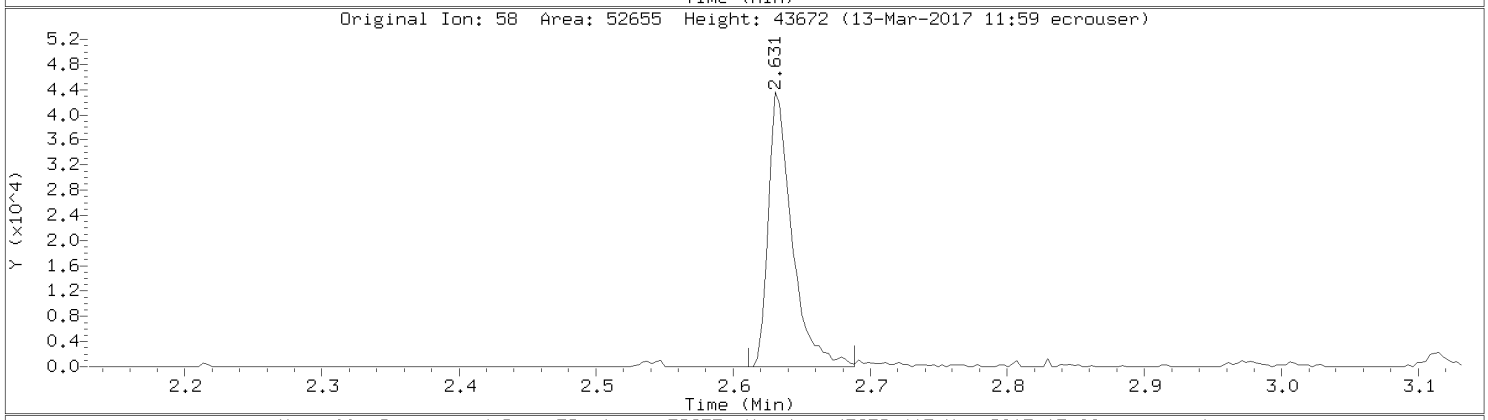


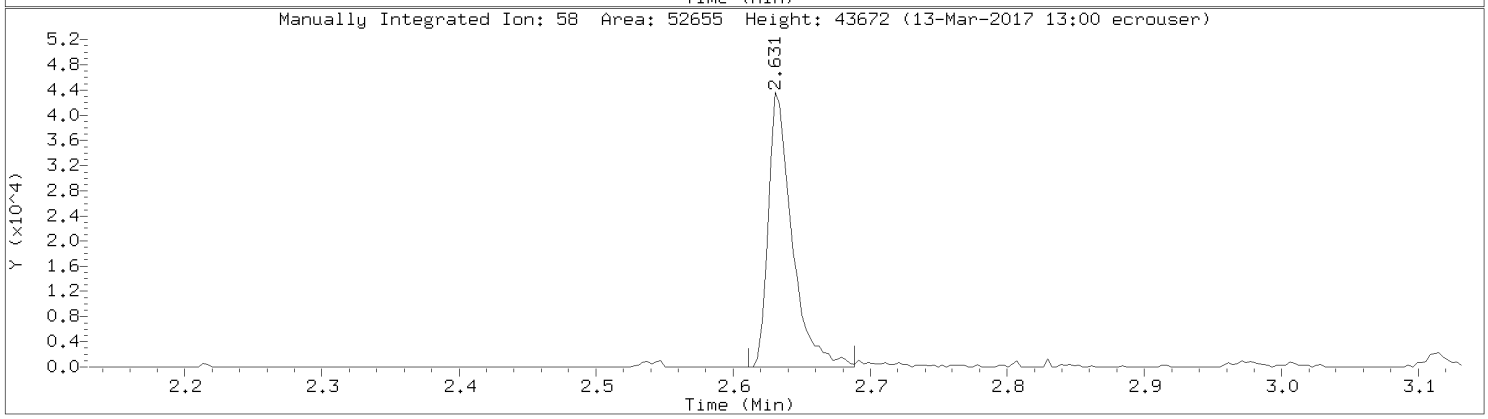
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07208.d
Injection Date: 13-MAR-2017 11:11
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Acetone
CAS Number: 67-64-1



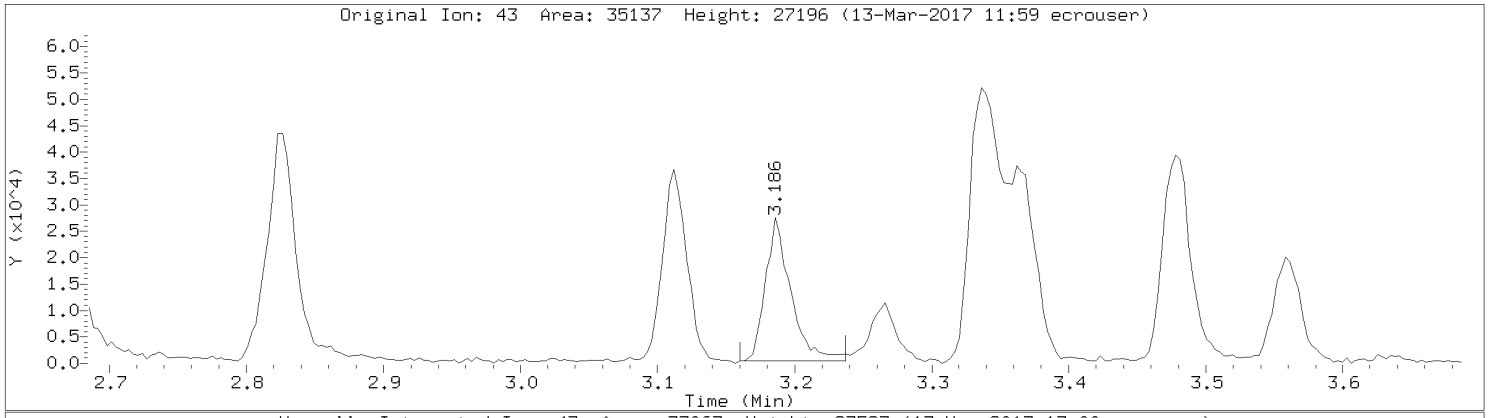


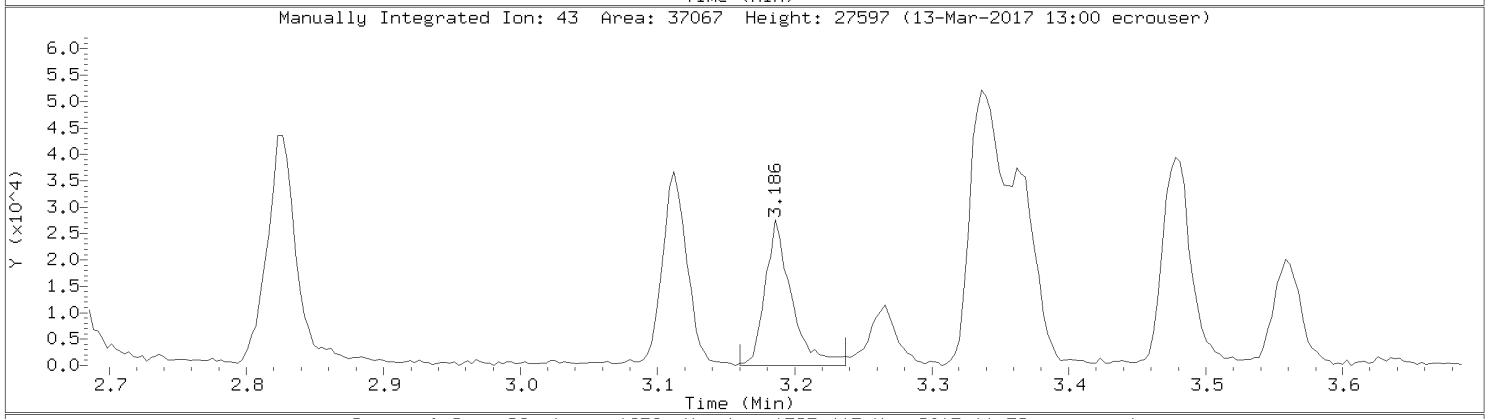


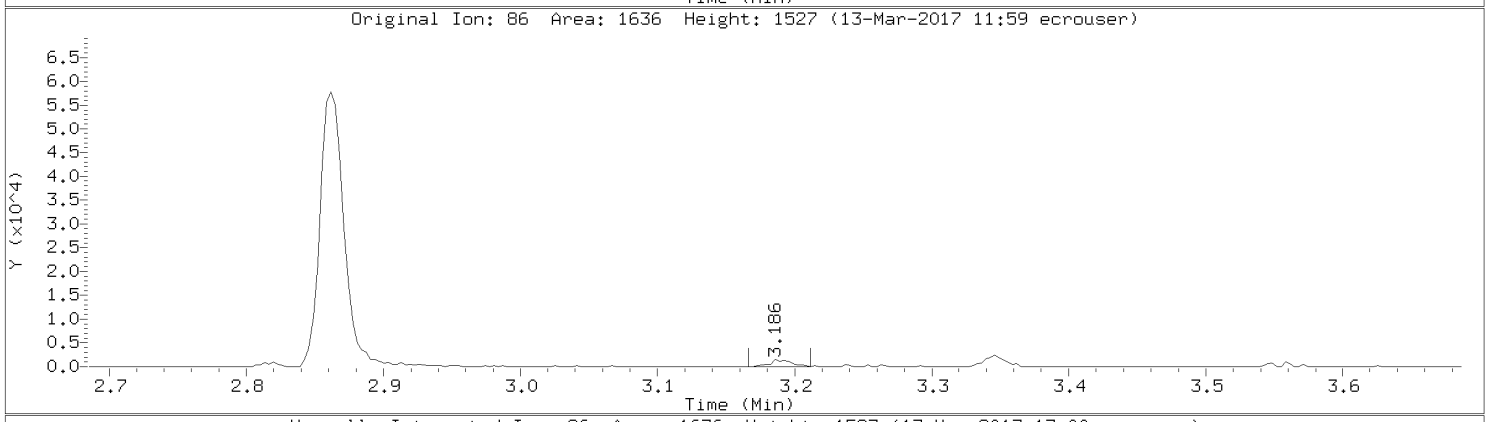


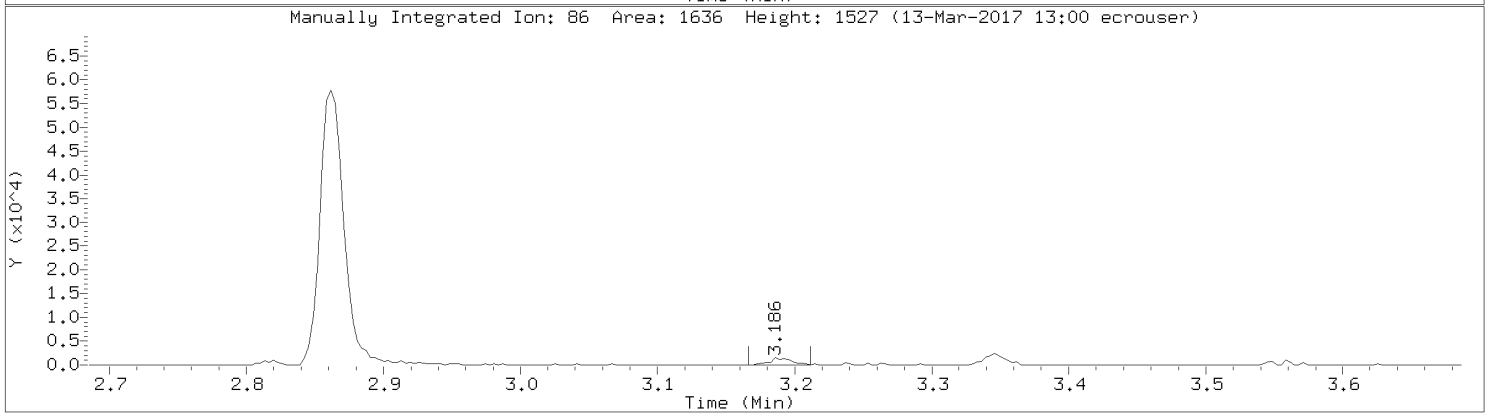
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07208.d
Injection Date: 13-MAR-2017 11:11
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Vinyl Acetate
CAS Number: 108-05-4



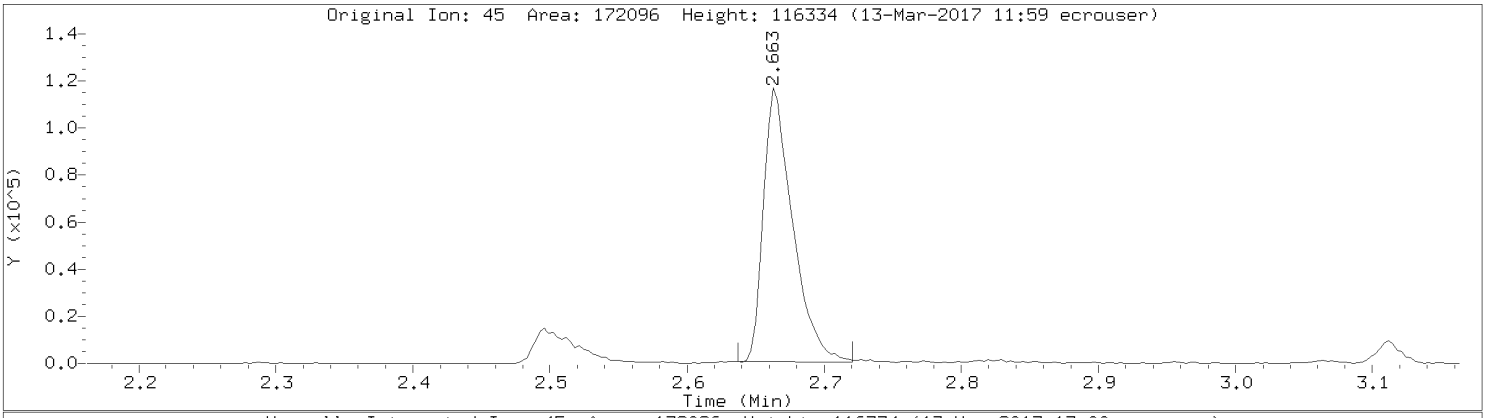


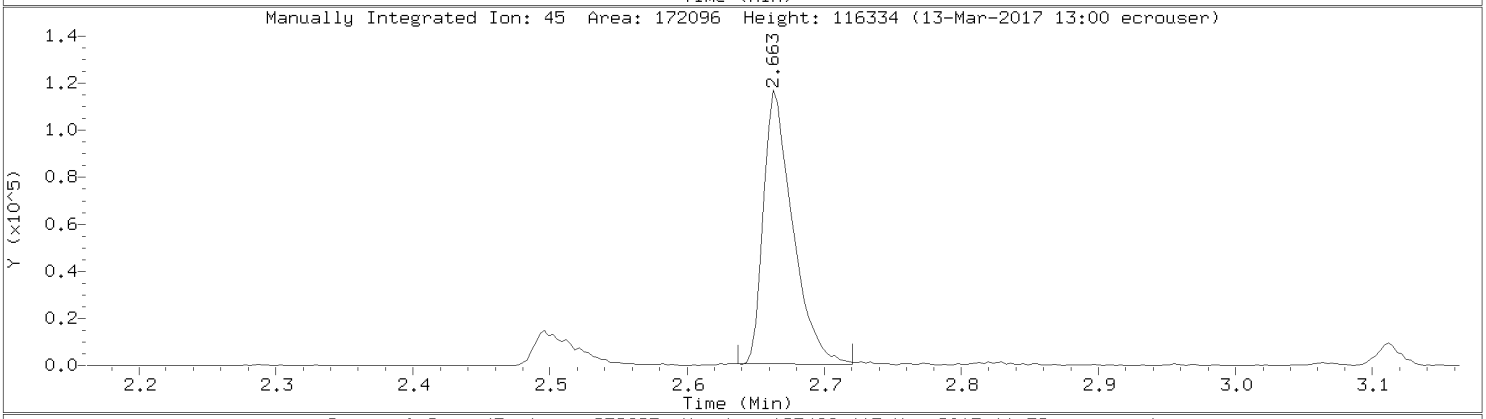


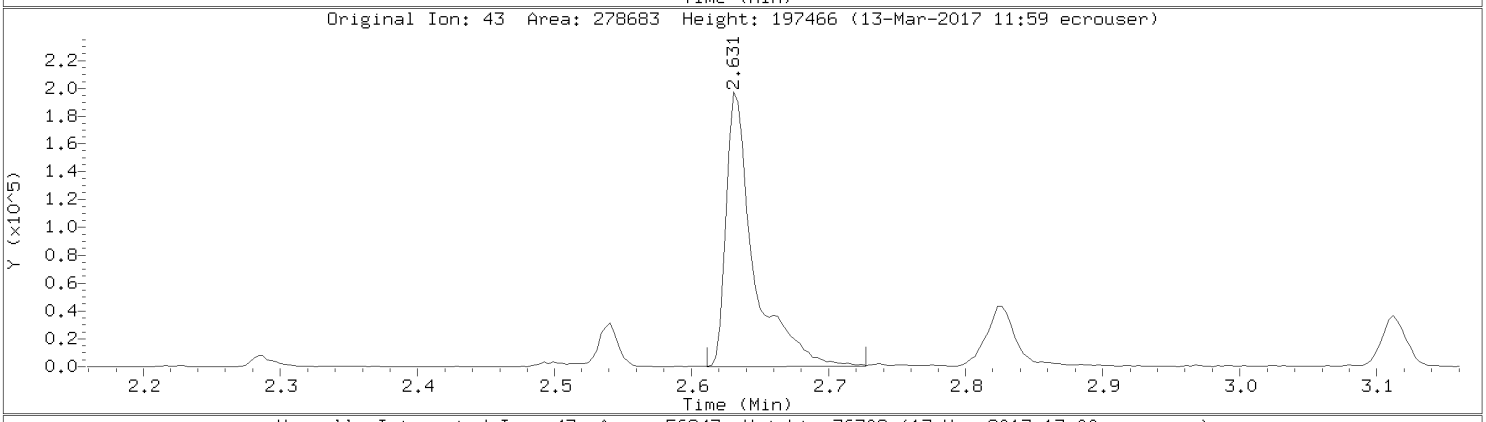


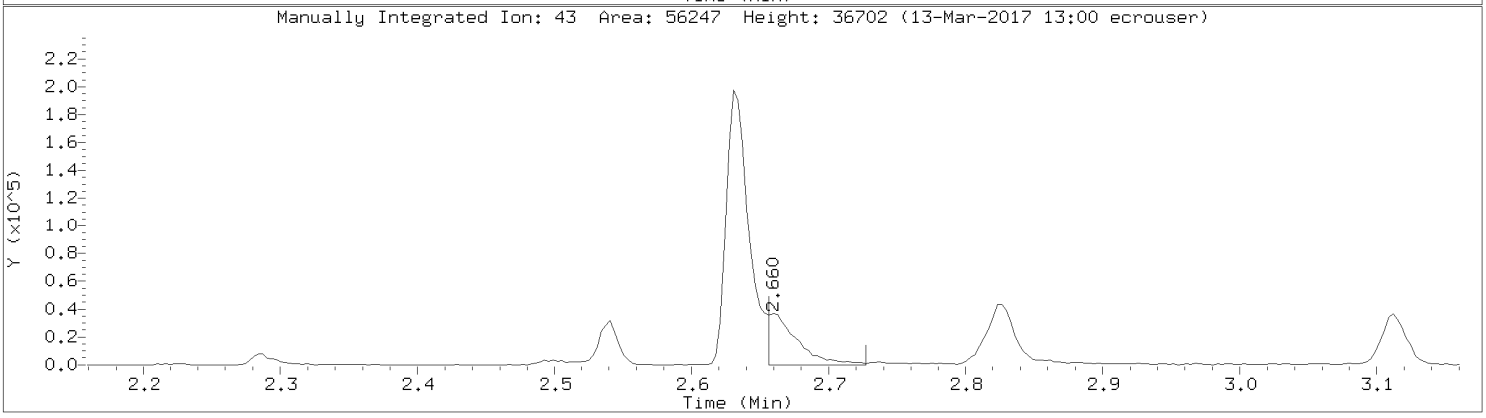
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07208.d
Injection Date: 13-MAR-2017 11:11
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



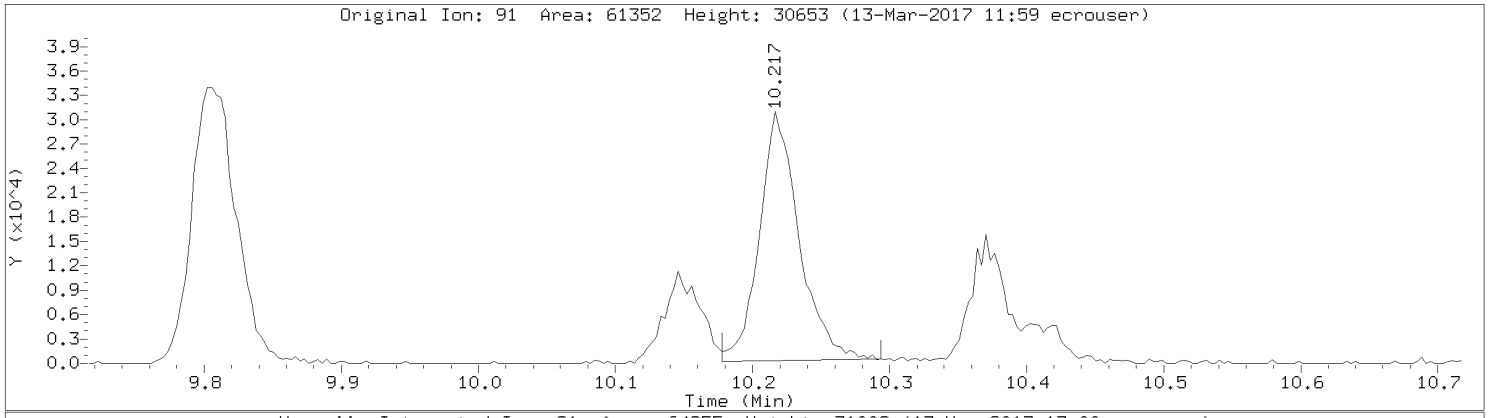


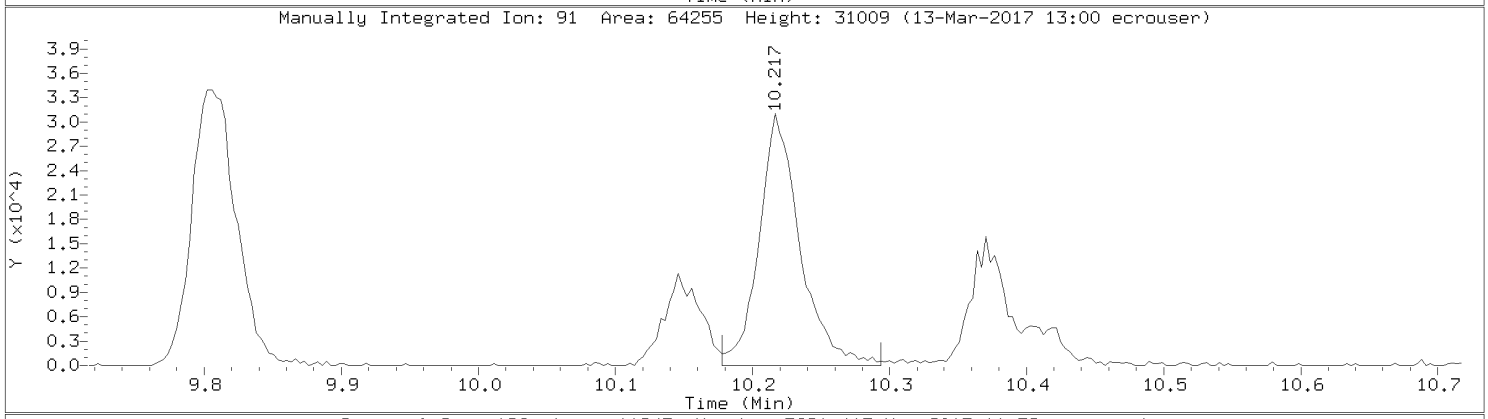


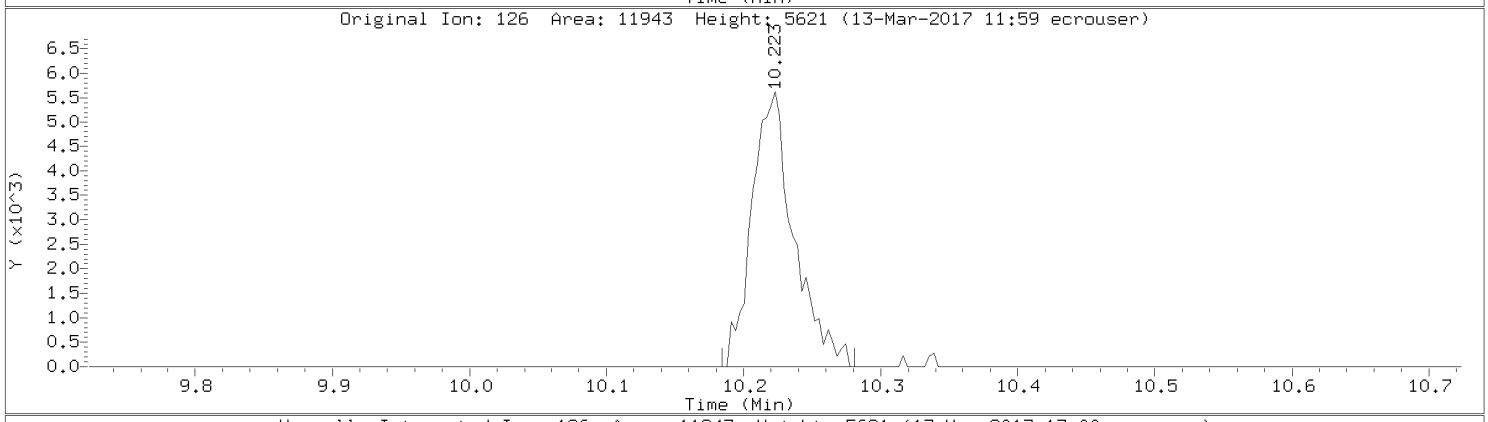


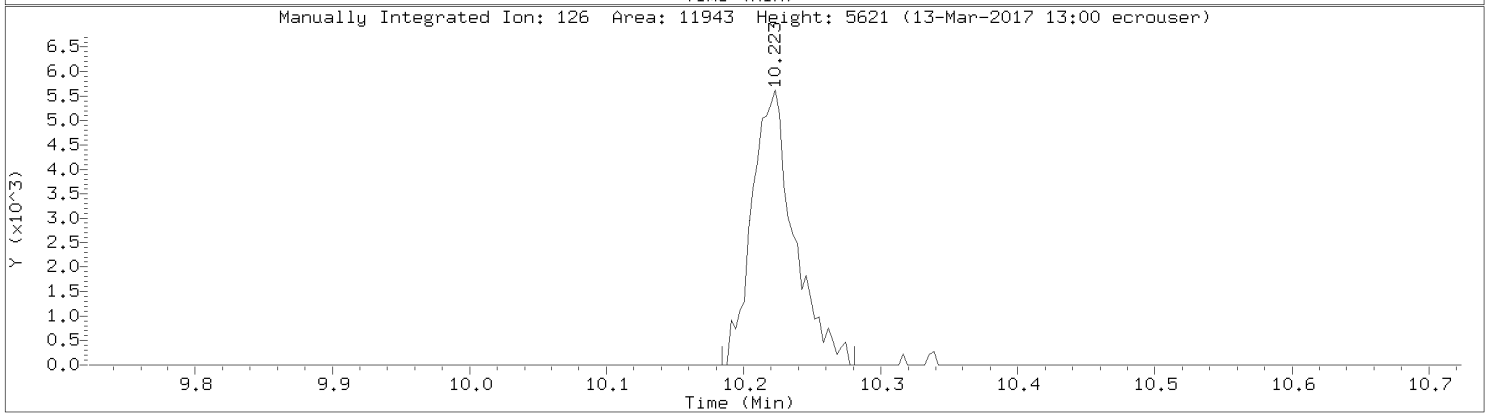
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07208.d
Injection Date: 13-MAR-2017 11:11
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Benzyl Chloride
CAS Number: 100-44-7



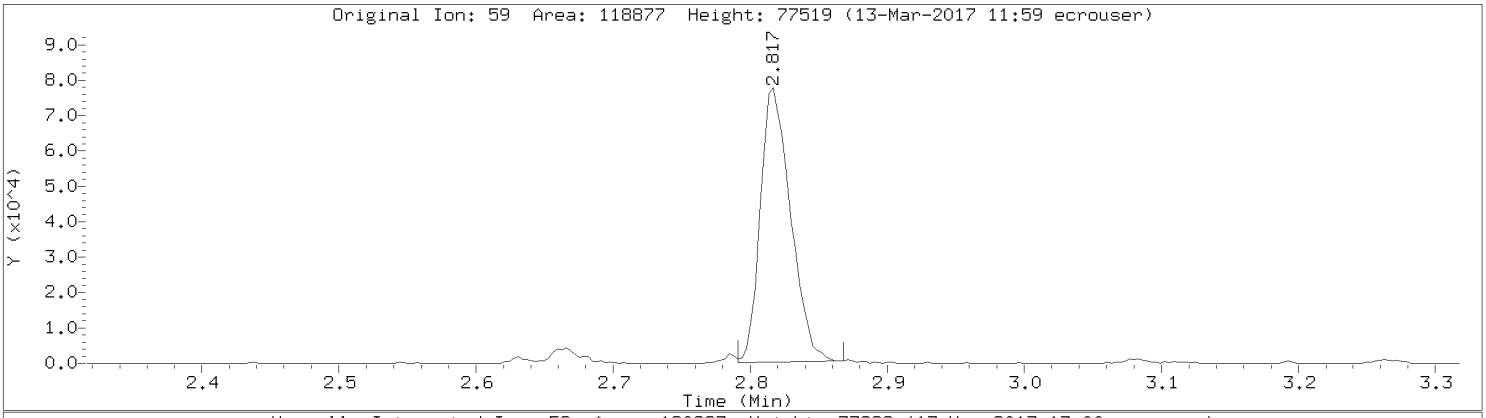


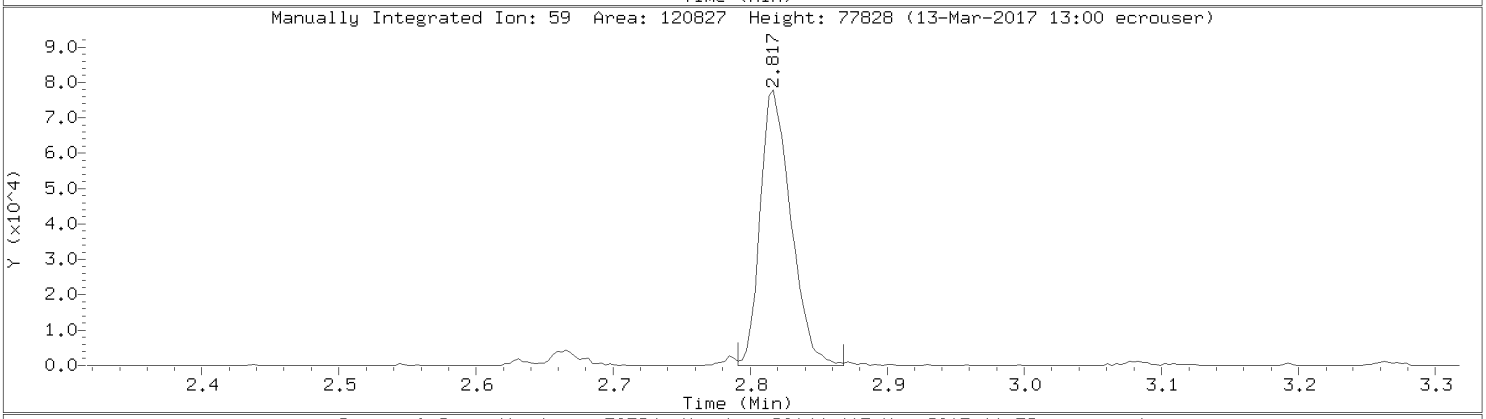


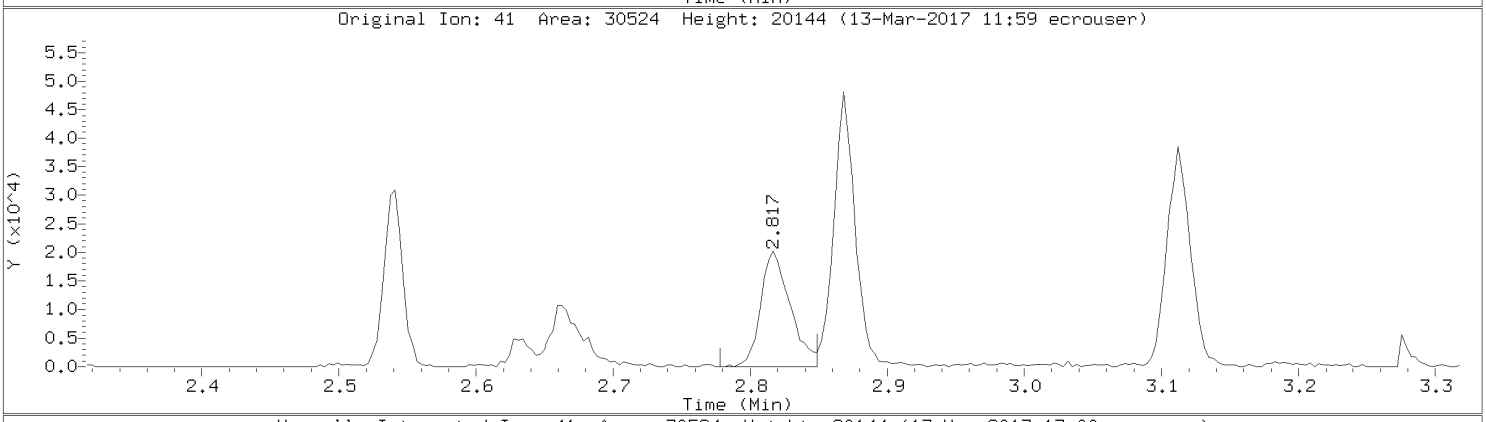


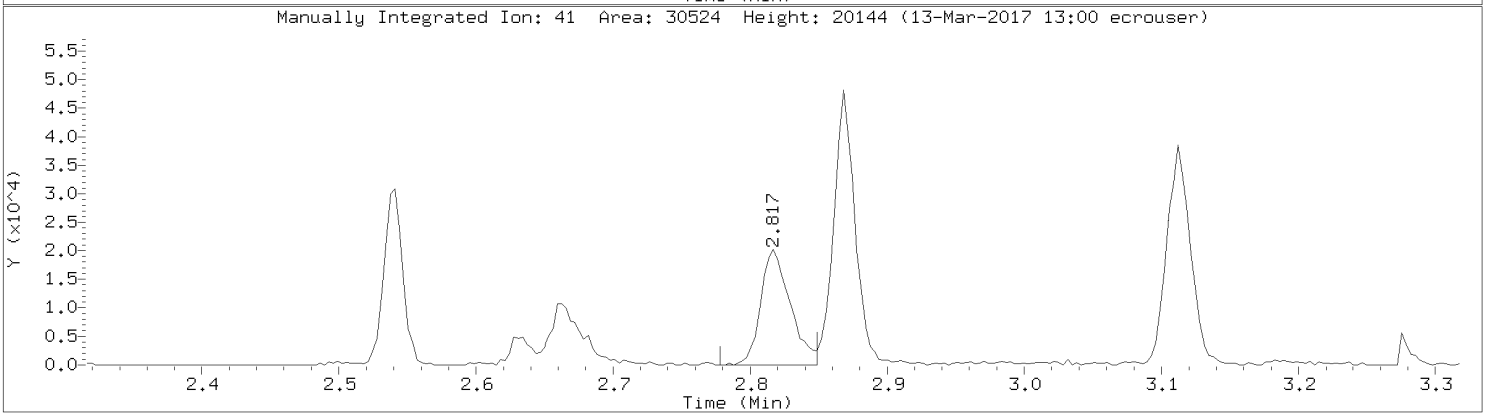
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07208.d
Injection Date: 13-MAR-2017 11:11
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0









Data File: \\192.168.10.12\chem\10airD.i\031317.b\07209.d
Report Date: 13-Mar-2017 11:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031317.b\07209.d
Lab Smp Id: CAL5
Inj Date : 13-MAR-2017 11:34
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Meth Date : 13-Mar-2017 11:56 ecrouser Quant Type: ISTD
Cal Date : 13-MAR-2017 11:34 Cal File: 07209.d
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.062	2.062	(0.486)	38397	10.0000	10.0
2	1,1-Difluoroethane	65	2.110	2.110	(0.497)	150641	10.0000	10.0
3	Chlorodifluoromethane	67	2.120	2.120	(0.499)	83267	10.0000	10.0
4	Propylene	41	2.126	2.126	(0.501)	625105	10.0000	10.0
5	Dichlorodifluoromethane	85	2.146	2.146	(0.505)	770398	10.0000	10.0(M)
6	Dichlorotetrafluoroethane	85	2.213	2.213	(0.521)	736426	10.0000	10.0
7	Chloromethane	50	2.213	2.213	(0.521)	317288	10.0000	10.0
8	Vinyl chloride	62	2.271	2.271	(0.535)	249945	10.0000	10.0
9	1,3-Butadiene	54	2.300	2.300	(0.541)	169245	10.0000	10.0
10	Bromomethane	94	2.402	2.402	(0.566)	279882	10.0000	10.0
11	Chloroethane	64	2.441	2.441	(0.575)	97683	10.0000	10.0
12	Ethanol	45	2.495	2.495	(0.588)	336255	50.0000	50.0
13	Vinyl Bromide	106	2.531	2.531	(0.596)	266438	10.0000	10.0
14	Isopentane	43	2.540	2.540	(0.598)	274045	10.0000	10.0
15	Freon 123	83	2.560	2.560	(0.603)	654485	10.0000	10.0
16	Trichlorofluoromethane	101	2.601	2.601	(0.612)	784533	10.0000	10.0
17	Acrolein	56	2.605	2.605	(0.613)	182332	25.0000	25.0
18	Acetone	43	2.633	2.633	(0.620)	1796583	50.0000	50.0
19	Isopropyl Alcohol	45	2.672	2.672	(0.629)	1584442	50.0000	50.0
20	1,1-Dichloroethene	61	2.787	2.787	(0.656)	448957	10.0000	10.0
21	Acrylonitrile	53	2.807	2.807	(0.661)	418890	25.0000	25.0
24	Tert Butyl Alcohol (TBA)	59	2.826	2.826	(0.665)	1142601	25.0000	25.0
22	Freon 113	101	2.820	2.820	(0.664)	590317	10.0000	10.0

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07209.d
Report Date: 13-Mar-2017 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.829	2.829	(0.666)	669659	10.0000	10.0
	25 Methylene chloride	49	2.868	2.868	(0.675)	1468549	50.0000	50.0
	26 Allyl Chloride	76	2.874	2.874	(0.677)	204575	25.0000	25.0
	27 Carbon Disulfide	76	2.961	2.961	(0.697)	629959	10.0000	10.0
	28 trans-1,2-dichloroethene	96	3.089	3.089	(0.727)	220431	10.0000	10.0
	29 Methyl Tert Butyl Ether	73	3.112	3.112	(0.733)	1475521	25.0000	25.0
	30 Vinyl Acetate	43	3.189	3.189	(0.751)	707062	10.0000	10.0
	31 1,1-Dichloroethane	63	3.198	3.198	(0.753)	466513	10.0000	10.0
$	32 Hexane-d14(S)	66	3.266	3.266	(0.769)	1324450	10.0000	10.0
	33 Methyl Ethyl Ketone	72	3.333	3.333	(0.785)	99508	10.0000	10.0
	34 n-Hexane	57	3.346	3.346	(0.788)	349790	10.0000	10.0(M)
	35 Di-isopropyl Ether	45	3.368	3.368	(0.793)	876742	10.0000	10.0
	36 cis-1,2-Dichloroethene	96	3.465	3.465	(0.816)	253082	10.0000	10.0
	37 Ethyl Acetate	43	3.477	3.477	(0.819)	604449	10.0000	10.0
	38 Ethyl Tert-Butyl Ether	59	3.561	3.561	(0.838)	1810366	25.0000	25.0
	39 Chloroform	83	3.564	3.564	(0.839)	636313	10.0000	10.0
	40 Tetrahydrofuran	42	3.702	3.702	(0.872)	280959	10.0000	10.0
	41 1,1,1-Trichloroethane	97	3.898	3.898	(0.918)	642296	10.0000	10.0
	42 1,2-Dichloroethane	62	3.911	3.911	(0.921)	450141	10.0000	10.0
	43 Benzene	78	4.103	4.103	(0.966)	708454	10.0000	10.0
	45 Carbon tetrachloride	117	4.116	4.116	(0.969)	663696	10.0000	10.0
	44 Cyclohexane	56	4.119	4.119	(0.970)	332995	10.0000	10.0
	46 Tert Amyl Methyl Ether	73	4.241	4.241	(0.998)	743003	10.0000	10.0
*	47 1,4-Difluorobenzene	114	4.248	4.248	(1.000)	2916193	10.0000	
	48 2,2,4-Trimethylpentane	57	4.373	4.373	(1.029)	2491601	25.0000	25.0
	49 Heptane	43	4.491	4.491	(1.057)	499141	10.0000	10.0
	50 1,2-Dichloropropane	63	4.556	4.556	(1.073)	314951	10.0000	10.0
	51 Trichloroethene	130	4.568	4.568	(1.076)	398233	10.0000	10.0
	52 Methyl methacrylate	69	4.652	4.652	(1.095)	258678	10.0000	10.0
	53 Bromodichloromethane	83	4.661	4.661	(1.097)	738671	10.0000	10.0
	54 1,4-Dioxane	88	4.668	4.668	(1.099)	70596	10.0000	10.0(H)
	55 Methylcyclohexane	98	4.960	4.960	(1.168)	143740	10.0000	10.0
	56 Methyl Isobutyl Ketone	43	5.091	5.091	(1.199)	1749600	25.0000	25.0
	57 cis-1,3-Dichloropropene	75	5.127	5.127	(1.207)	461765	10.0000	10.0
	58 trans-1,3-Dichloropropene	75	5.505	5.505	(1.296)	428057	10.0000	10.0
$	59 Toluene-d8 (S)	98	5.563	5.563	(1.310)	2798575	10.0000	10.0
	60 Toluene	91	5.634	5.634	(1.326)	960322	10.0000	10.0
	61 1,1,2-Trichloroethane	97	5.643	5.643	(1.329)	372758	10.0000	10.0
	62 Methyl Butyl Ketone	43	5.878	5.878	(0.836)	1672188	25.0000	25.0
	63 n-Octane	43	6.051	6.051	(0.861)	626757	10.0000	10.0
	64 Dibromochloromethane	129	6.125	6.125	(0.871)	795255	10.0000	10.0
	65 1,2-Dibromoethane	107	6.337	6.337	(0.901)	616072	10.0000	10.0
	66 Tetrachloroethene	166	6.404	6.404	(0.911)	624285	10.0000	10.0
*	67 Chlorobenzene - d5	117	7.030	7.030	(1.000)	2134582	10.0000	
	68 Chlorobenzene	112	7.071	7.071	(1.006)	751111	10.0000	10.0
	69 Ethyl Benzene	91	7.315	7.315	(1.041)	1205016	10.0000	10.0
	70 m&p-Xylene	91	7.456	7.456	(1.061)	1751950	20.0000	20.0
	71 Bromoform	173	7.825	7.825	(1.113)	841179	10.0000	10.0
	72 n-Nonane	43	7.858	7.858	(1.118)	622282	10.0000	10.0
	73 Styrene	104	7.867	7.867	(1.119)	667343	10.0000	10.0
	74 o-Xylene	91	7.931	7.931	(1.128)	935543	10.0000	10.0
	75 1,1,2,2-Tetrachloroethane	83	8.194	8.194	(1.166)	669614	10.0000	10.0
	76 Isopropylbenzene	105	8.499	8.499	(1.209)	1238669	10.0000	10.0
	77 N-Propylbenzene	91	9.054	9.054	(1.288)	1399815	10.0000	10.0

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07209.d
Report Date: 13-Mar-2017 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)	
78	4-Ethyltoluene	105	9.228	9.228	(1.313)	1117802	10.0000	10.0	
79	1,3,5-Trimethylbenzene	105	9.318	9.318	(1.325)	969130	10.0000	10.0	
80	n-Decane	57	9.725	9.725	(2.289)	523275	10.0000	10.0	
81	Tert-Butyl Benzene	119	9.809	9.809	(1.395)	973894	10.0000	10.0	
82	1,2,4-Trimethylbenzene	105	9.828	9.828	(1.398)	924491	10.0000	10.0	
83	1,3-Dichlorobenzene	146	10.126	10.126	(1.440)	671126	10.0000	10.0	
84	Sec- Butylbenzene	105	10.152	10.152	(1.444)	1293548	10.0000	10.0	
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.197	10.197	(1.450)	1189258	10.0000	10.0	
86	Benzyl Chloride	91	10.219	10.219	(1.454)	703372	10.0000	10.0	(M)
87	1,4-Dichlorobenzene	146	10.239	10.239	(1.456)	648052	10.0000	10.0	
88	p-Isopropyltoluene	119	10.377	10.377	(1.476)	1177849	10.0000	10.0	
89	1,2,3-Trimethylbenzene	105	10.415	10.415	(1.482)	893749	10.0000	10.0	
90	1,2-Dichlorobenzene	146	10.701	10.701	(1.522)	619604	10.0000	10.0	
91	N-Butylbenzene	91	10.967	10.967	(1.560)	994209	10.0000	10.0	
92	1,2-Dibromo-3-Chloropropane	157	11.525	11.525	(1.639)	216697	10.0000	10.0	
93	1,2,4-Trichlorobenzene	180	12.835	12.835	(1.826)	243600	10.0000	10.0	
94	Naphthalene	128	12.956	12.956	(1.843)	436249	10.0000	10.0	
95	Hexachlorobutadiene	225	13.213	13.213	(1.880)	289277	10.0000	10.0	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07209.d
Report Date: 13-Mar-2017 11:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07209.d
Lab Smp Id: CAL5
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Misc Info:

Calibration Date: 13-MAR-2017
Calibration Time: 11:34
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

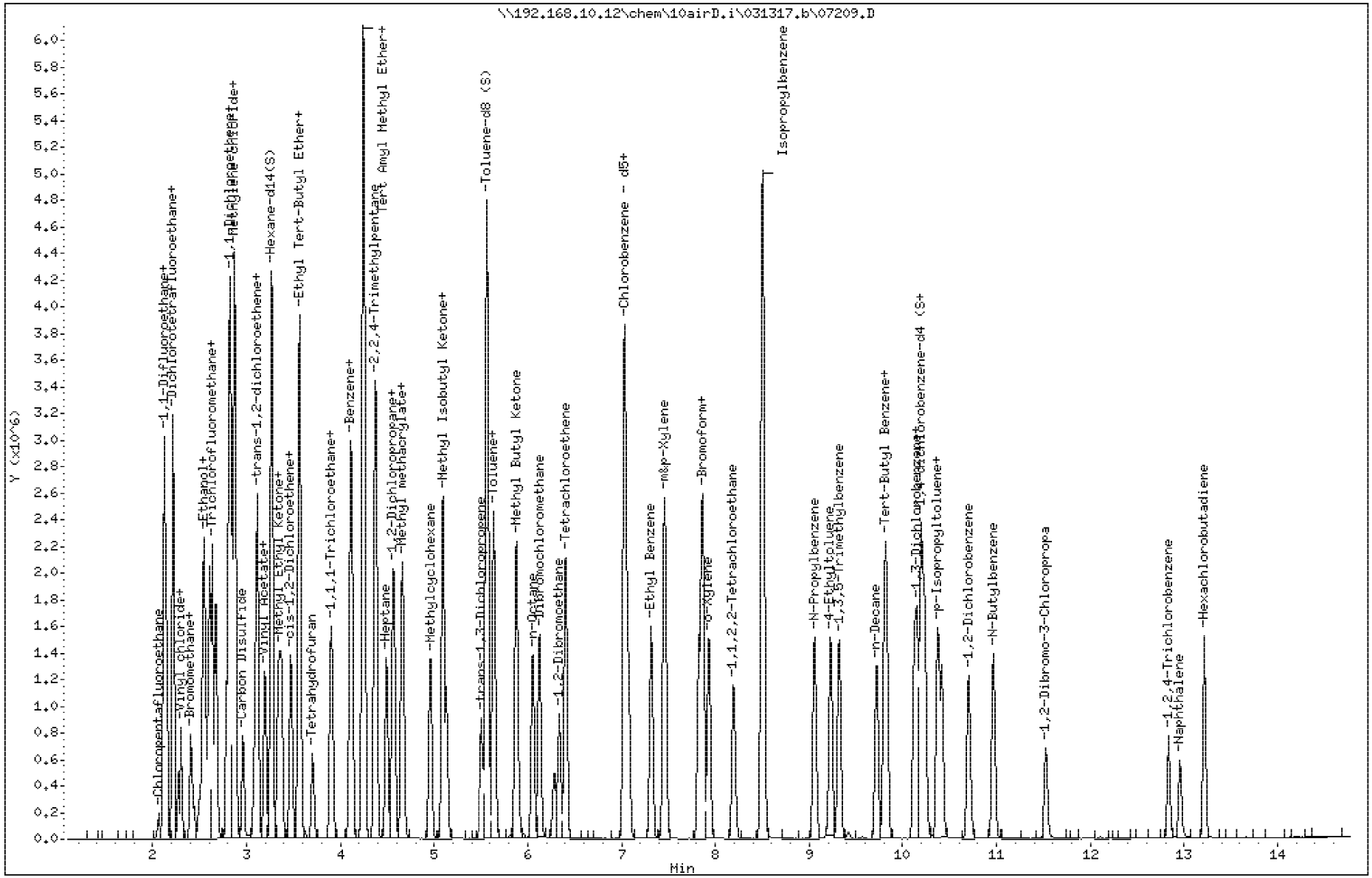
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2916193	1749716	4082670	2916193	0.00
67 Chlorobenzene - d	2134582	1280749	2988415	2134582	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	0.00
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

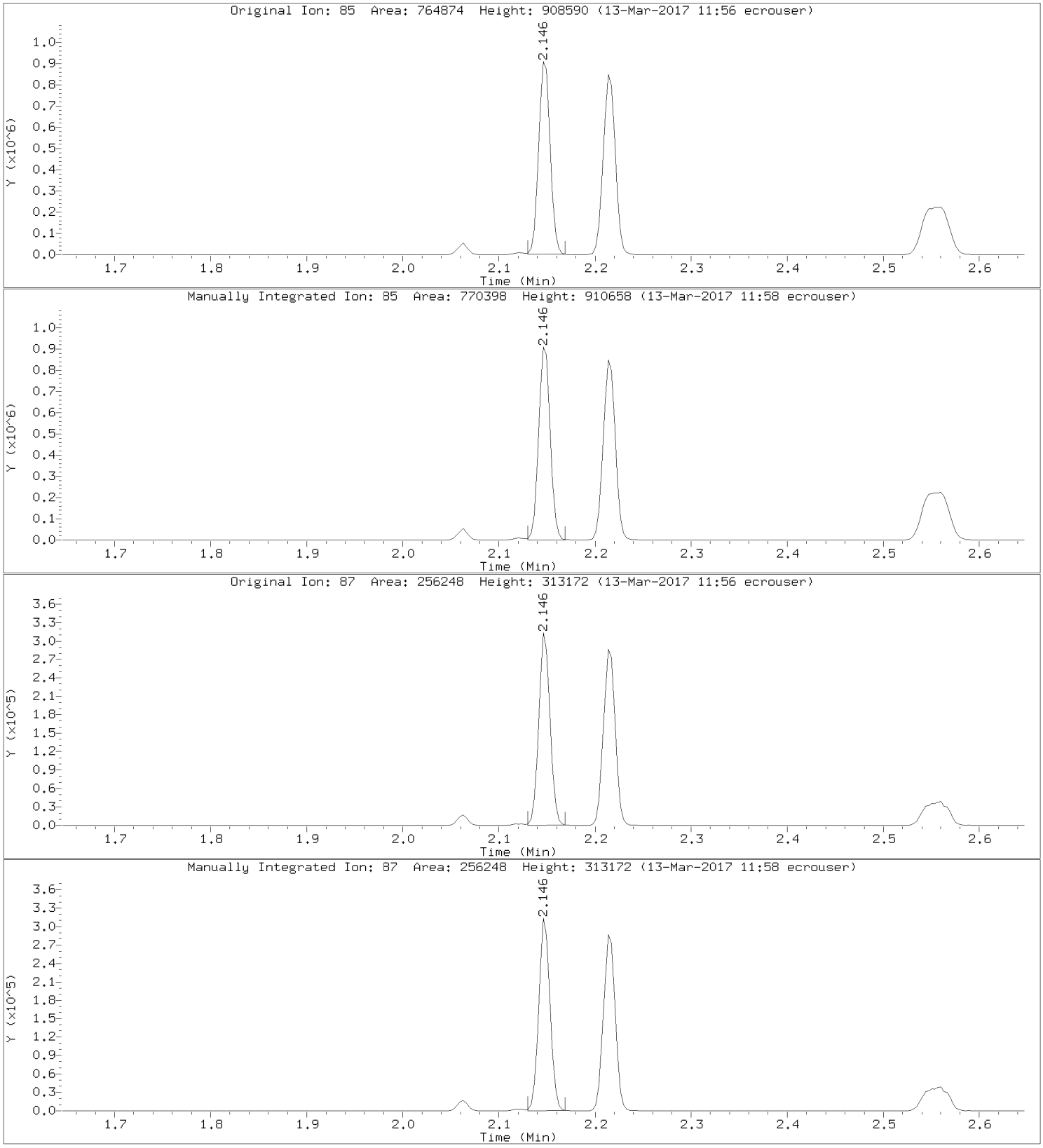
Data File: \\192.168.10.12\chem\10airD.i\031317.b\07209.D
Date : 13-MAR-2017 11:34
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



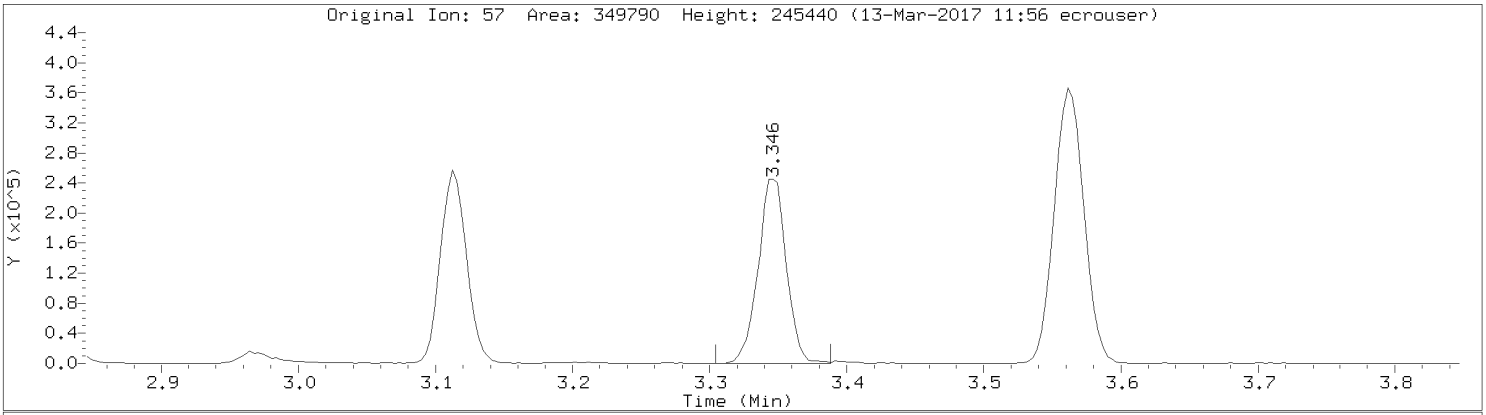
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07209.d
Injection Date: 13-MAR-2017 11:34
Instrument: 10airD.i
Lab Sample ID: CAL5

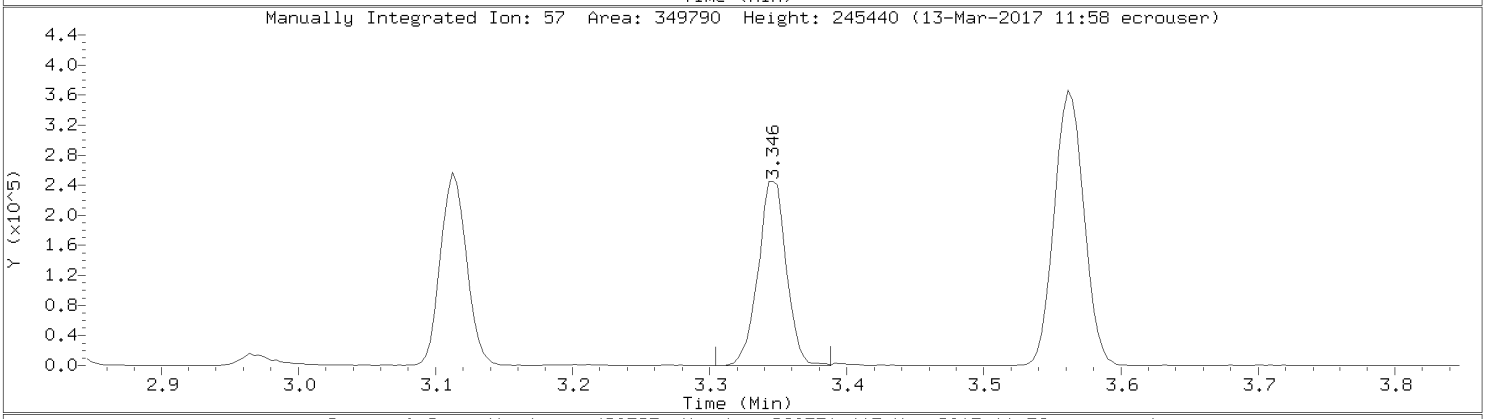
Compound: Dichlorodifluoromethane
CAS Number: 79-34-5

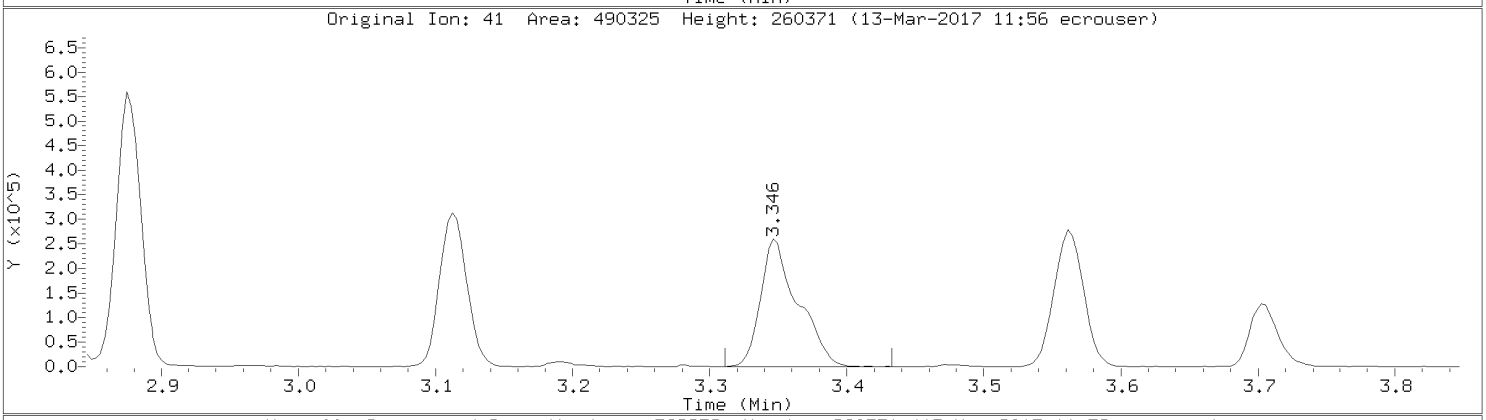


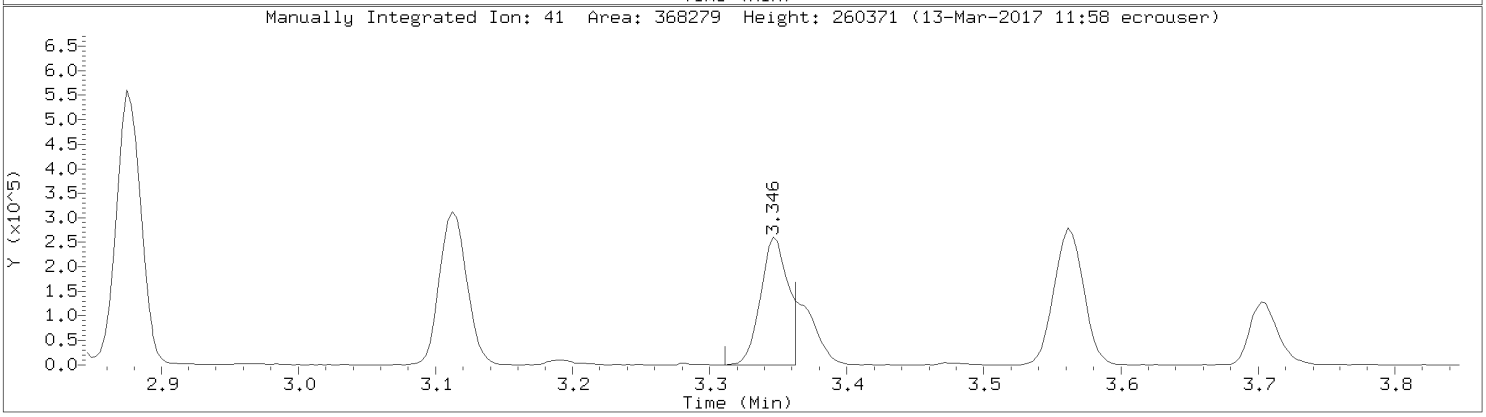
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07209.d
Injection Date: 13-MAR-2017 11:34
Instrument: 10airD.i
Lab Sample ID: CAL5

Compound: n-Hexane
CAS Number: 110-54-3

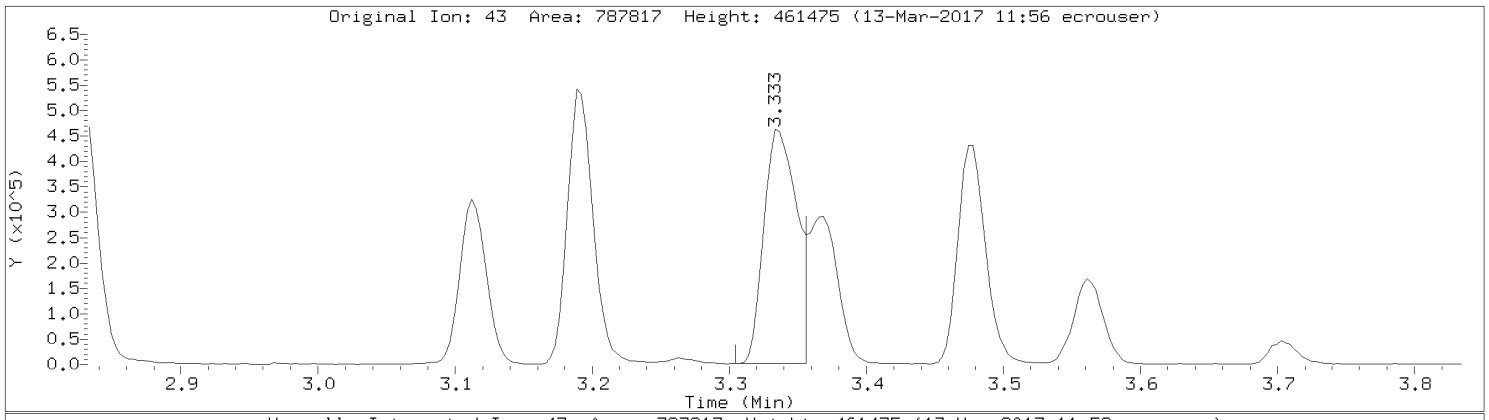


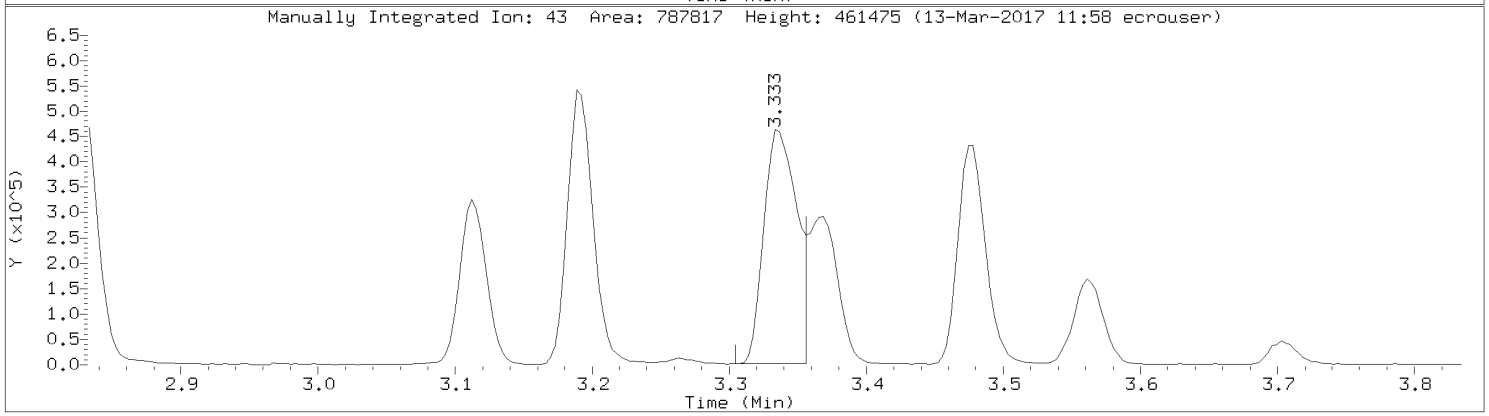






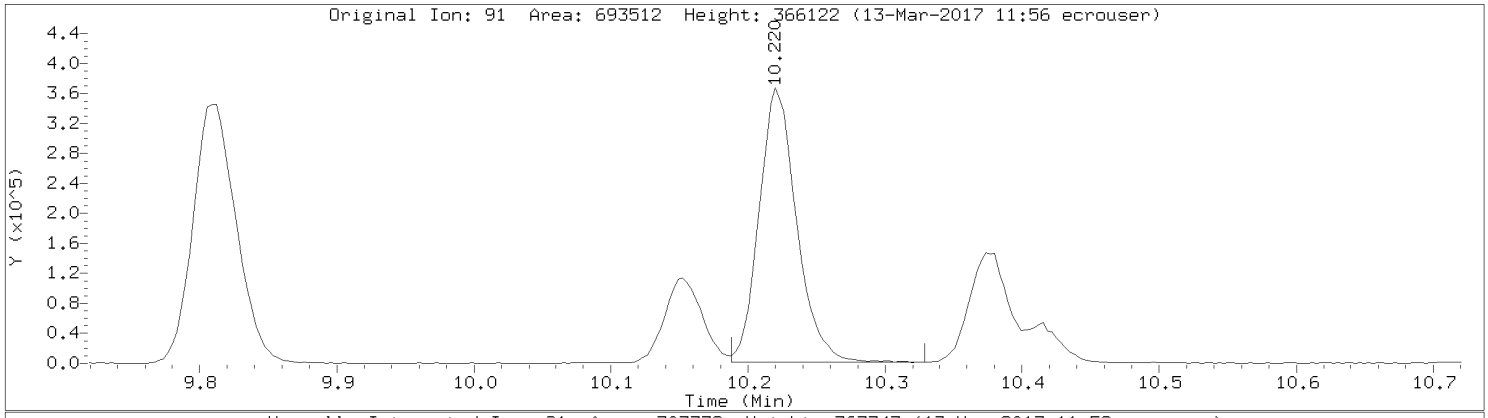
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07209.d
Injection Date: 13-MAR-2017 11:34
Instrument: 10airD.i
Lab Sample ID: CAL5

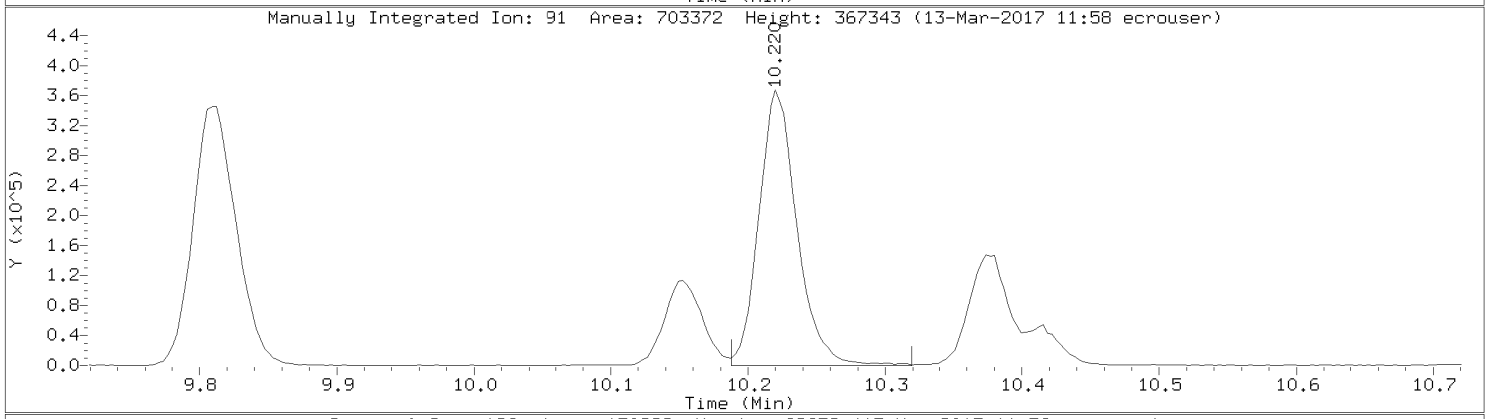


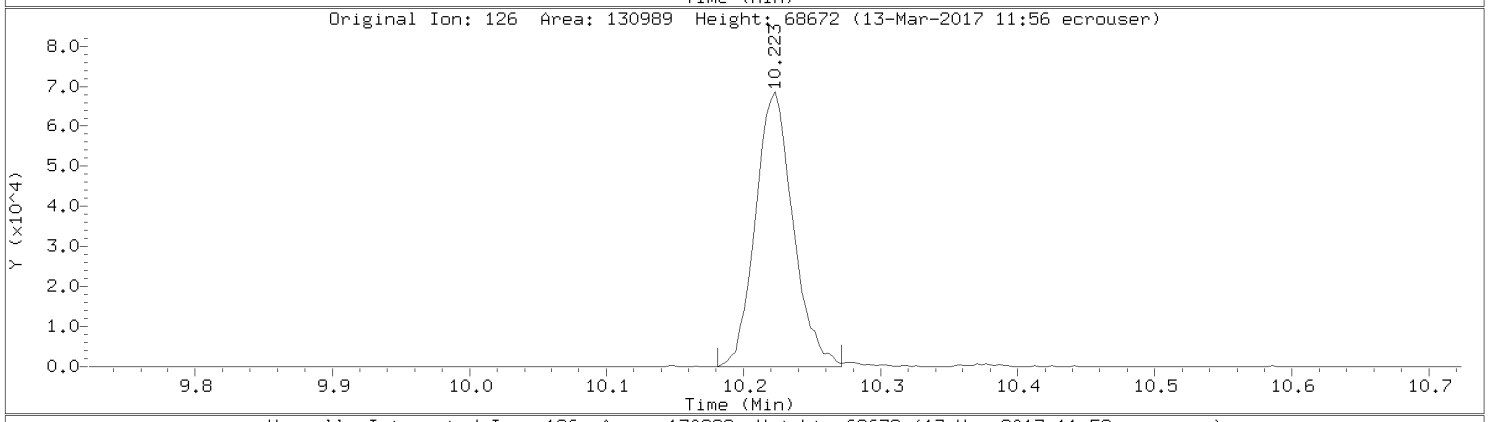


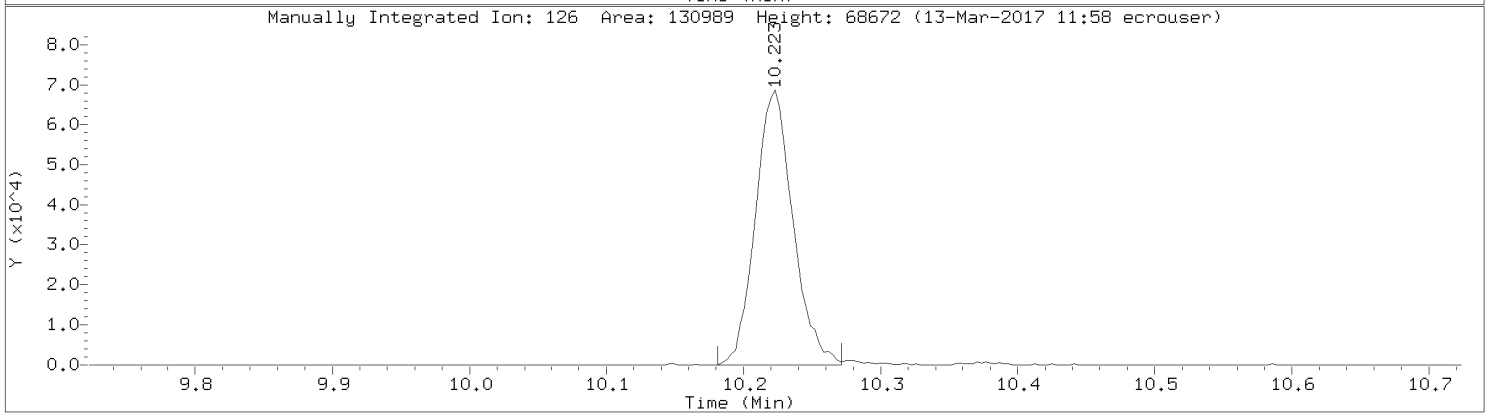
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07209.d
Injection Date: 13-MAR-2017 11:34
Instrument: 10airD.i
Lab Sample ID: CAL5

Compound: Benzyl Chloride
CAS Number: 100-44-7









Data File: \\192.168.10.12\chem\10airD.i\031317.b\07210.d
Report Date: 13-Mar-2017 12:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031317.b\07210.d
Lab Smp Id: CAL6
Inj Date : 13-MAR-2017 11:59
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Meth Date : 13-Mar-2017 12:53 ecrouser Quant Type: ISTD
Cal Date : 13-MAR-2017 11:59 Cal File: 07210.d
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.062	2.062	(0.485)	81831	20.0000	22.7
2	1,1-Difluoroethane	65	2.110	2.110	(0.497)	306209	20.0000	20.2
3	Chlorodifluoromethane	67	2.120	2.120	(0.499)	164904	20.0000	20.3
4	Propylene	41	2.127	2.127	(0.500)	1146525	20.0000	22.0
5	Dichlorodifluoromethane	85	2.149	2.149	(0.506)	1376249	20.0000	18.3
6	Dichlorotetrafluoroethane	85	2.216	2.216	(0.521)	1361951	20.0000	18.6
7	Chloromethane	50	2.216	2.216	(0.521)	625409	20.0000	19.2
8	Vinyl chloride	62	2.274	2.274	(0.535)	500779	20.0000	20.1
9	1,3-Butadiene	54	2.303	2.303	(0.542)	348209	20.0000	20.7
10	Bromomethane	94	2.406	2.406	(0.566)	554036	20.0000	19.6
11	Chloroethane	64	2.444	2.444	(0.575)	197589	20.0000	20.1
12	Ethanol	45	2.505	2.505	(0.589)	695683	100.000	105
13	Vinyl Bromide	106	2.534	2.534	(0.596)	540745	20.0000	20.5
14	Isopentane	43	2.544	2.544	(0.598)	541787	20.0000	18.4
15	Freon 123	83	2.550	2.550	(0.600)	1322224	20.0000	19.9
16	Trichlorofluoromethane	101	2.605	2.605	(0.613)	1485528	20.0000	19.3
17	Acrolein	56	2.608	2.608	(0.614)	382883	50.0000	69.3
18	Acetone	43	2.640	2.640	(0.621)	3033893	100.000	71.4
19	Isopropyl Alcohol	45	2.682	2.682	(0.631)	2943345	100.000	88.3
20	1,1-Dichloroethene	61	2.791	2.791	(0.657)	895008	20.0000	20.2
21	Acrylonitrile	53	2.810	2.810	(0.661)	851232	50.0000	57.3
24	Tert Butyl Alcohol (TBA)	59	2.836	2.836	(0.667)	2186592	50.0000	48.1
22	Freon 113	101	2.823	2.823	(0.664)	1167388	20.0000	19.9

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07210.d
Report Date: 13-Mar-2017 12:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.836	2.836	(0.667)	1292887	20.0000	20.4
	25 Methylene chloride	49	2.871	2.871	(0.675)	2560031	100.000	86.1
	26 Allyl Chloride	76	2.881	2.881	(0.678)	401774	50.0000	64.1
	27 Carbon Disulfide	76	2.964	2.964	(0.697)	1265428	20.0000	20.2
	28 trans-1,2-dichloroethene	96	3.092	3.092	(0.728)	469205	20.0000	22.0
	29 Methyl Tert Butyl Ether	73	3.118	3.118	(0.734)	2627764	50.0000	45.8
	30 Vinyl Acetate	43	3.195	3.195	(0.752)	1441821	20.0000	25.5
	31 1,1-Dichloroethane	63	3.205	3.205	(0.754)	962444	20.0000	20.5
$	32 Hexane-d14(S)	66	3.269	3.269	(0.769)	1371841	10.0000	9.96
	33 Methyl Ethyl Ketone	72	3.336	3.336	(0.785)	212576	20.0000	21.9
	34 n-Hexane	57	3.346	3.346	(0.787)	732281	20.0000	21.0
	35 Di-isopropyl Ether	45	3.375	3.375	(0.794)	1736658	20.0000	20.0
	36 cis-1,2-Dichloroethene	96	3.471	3.471	(0.817)	527247	20.0000	22.0
	37 Ethyl Acetate	43	3.481	3.481	(0.819)	1230155	20.0000	20.8
	38 Ethyl Tert-Butyl Ether	59	3.567	3.567	(0.839)	3103311	50.0000	44.0
	39 Chloroform	83	3.571	3.571	(0.840)	1238061	20.0000	20.0
	40 Tetrahydrofuran	42	3.705	3.705	(0.872)	580054	20.0000	20.3
	41 1,1,1-Trichloroethane	97	3.904	3.904	(0.918)	1291929	20.0000	20.4
	42 1,2-Dichloroethane	62	3.917	3.917	(0.921)	919778	20.0000	20.4
	43 Benzene	78	4.110	4.110	(0.967)	1402486	20.0000	19.9
	45 Carbon tetrachloride	117	4.119	4.119	(0.969)	1304620	20.0000	21.4
	44 Cyclohexane	56	4.119	4.119	(0.969)	668109	20.0000	18.7
	46 Tert Amyl Methyl Ether	73	4.244	4.244	(0.998)	1446208	20.0000	7.77
*	47 1,4-Difluorobenzene	114	4.251	4.251	(1.000)	3002569	10.0000	
	48 2,2,4-Trimethylpentane	57	4.379	4.379	(1.030)	3936779	50.0000	35.7
	49 Heptane	43	4.495	4.495	(1.057)	1015146	20.0000	19.2
	50 1,2-Dichloropropane	63	4.559	4.559	(1.072)	636533	20.0000	19.8
	51 Trichloroethene	130	4.575	4.575	(1.076)	808130	20.0000	19.7
	52 Methyl methacrylate	69	4.655	4.655	(1.095)	532172	20.0000	23.4
	53 Bromodichloromethane	83	4.668	4.668	(1.098)	1471421	20.0000	21.4
	54 1,4-Dioxane	88	4.671	4.671	(1.099)	165559	20.0000	22.1
	55 Methylcyclohexane	98	4.960	4.960	(1.167)	295220	20.0000	20.6
	56 Methyl Isobutyl Ketone	43	5.098	5.098	(1.199)	3071710	50.0000	46.8
	57 cis-1,3-Dichloropropene	75	5.130	5.130	(1.207)	954124	20.0000	21.7
	58 trans-1,3-Dichloropropene	75	5.509	5.509	(1.296)	901513	20.0000	23.8
$	59 Toluene-d8 (S)	98	5.566	5.566	(1.309)	2849334	10.0000	10.0
	60 Toluene	91	5.637	5.637	(1.326)	1852918	20.0000	19.6
	61 1,1,2-Trichloroethane	97	5.647	5.647	(1.328)	746147	20.0000	20.0
	62 Methyl Butyl Ketone	43	5.884	5.884	(0.836)	3059905	50.0000	50.8
	63 n-Octane	43	6.057	6.057	(0.861)	1240893	20.0000	19.6
	64 Dibromochloromethane	129	6.131	6.131	(0.871)	1618903	20.0000	24.3
	65 1,2-Dibromoethane	107	6.343	6.343	(0.901)	1274357	20.0000	21.7
	66 Tetrachloroethene	166	6.407	6.407	(0.911)	1256926	20.0000	19.8
*	67 Chlorobenzene - d5	117	7.036	7.036	(1.000)	2165314	10.0000	
	68 Chlorobenzene	112	7.075	7.075	(1.005)	1499897	20.0000	20.2
	69 Ethyl Benzene	91	7.319	7.319	(1.040)	2329144	20.0000	19.7
	70 m&p-Xylene	91	7.463	7.463	(1.061)	3275672	40.0000	36.5
	71 Bromoform	173	7.829	7.829	(1.113)	1714399	20.0000	28.8
	72 n-Nonane	43	7.861	7.861	(1.117)	1250472	20.0000	21.2
	73 Styrene	104	7.870	7.870	(1.119)	1379829	20.0000	22.4
	74 o-Xylene	91	7.935	7.935	(1.128)	1907807	20.0000	19.8
	75 1,1,2,2-Tetrachloroethane	83	8.201	8.201	(1.166)	1400995	20.0000	21.3
	76 Isopropylbenzene	105	8.503	8.503	(1.208)	2399635	20.0000	19.5
	77 N-Propylbenzene	91	9.061	9.061	(1.288)	2736093	20.0000	21.4

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07210.d
Report Date: 13-Mar-2017 12:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.231	9.231	(1.312)	2304216	20.0000	22.2
79	1,3,5-Trimethylbenzene	105	9.324	9.324	(1.325)	1976268	20.0000	19.2
80	n-Decane	57	9.728	9.728	(2.288)	1092275	20.0000	23.4
81	Tert-Butyl Benzene	119	9.815	9.815	(1.395)	2033559	20.0000	21.0
82	1,2,4-Trimethylbenzene	105	9.834	9.834	(1.398)	1904070	20.0000	16.5
83	1,3-Dichlorobenzene	146	10.130	10.130	(1.440)	1420054	20.0000	21.1
84	Sec- Butylbenzene	105	10.158	10.158	(1.444)	2596304	20.0000	21.5
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.200	10.200	(1.450)	1213836	10.0000	10.8(M)
86	Benzyl Chloride	91	10.226	10.226	(1.453)	1533086	20.0000	22.6(M)
87	1,4-Dichlorobenzene	146	10.242	10.242	(1.456)	1400263	20.0000	20.4(M)
88	p-Isopropyltoluene	119	10.380	10.380	(1.475)	2346535	20.0000	21.2
89	1,2,3-Trimethylbenzene	105	10.418	10.418	(1.481)	1883740	20.0000	21.9
90	1,2-Dichlorobenzene	146	10.707	10.707	(1.522)	1312623	20.0000	20.9
91	N-Butylbenzene	91	10.970	10.970	(1.559)	2033005	20.0000	21.7
92	1,2-Dibromo-3-Chloropropane	157	11.529	11.529	(1.638)	429268	20.0000	24.2
93	1,2,4-Trichlorobenzene	180	12.835	12.835	(1.824)	432995	20.0000	15.6
94	Naphthalene	128	12.957	12.957	(1.841)	744215	20.0000	14.3
95	Hexachlorobutadiene	225	13.216	13.216	(1.878)	509542	20.0000	15.0

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07210.d
Report Date: 13-Mar-2017 12:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07210.d
Lab Smp Id: CAL6
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Misc Info:

Calibration Date: 13-MAR-2017
Calibration Time: 11:34
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

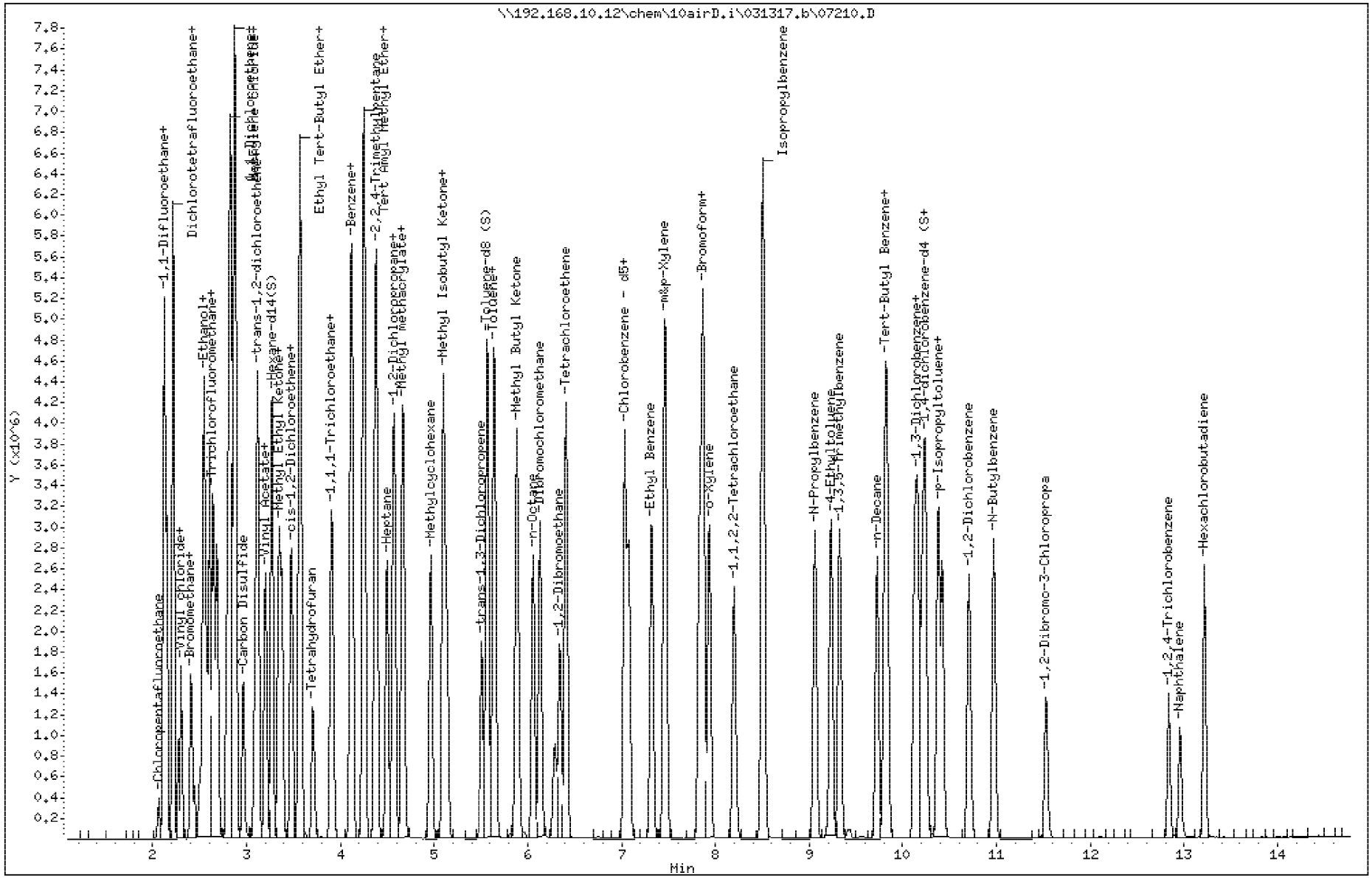
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2916193	1749716	4082670	3002569	2.96
67 Chlorobenzene - d	2134582	1280749	2988415	2165314	1.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	0.08
67 Chlorobenzene - d	7.03	6.70	7.36	7.04	0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

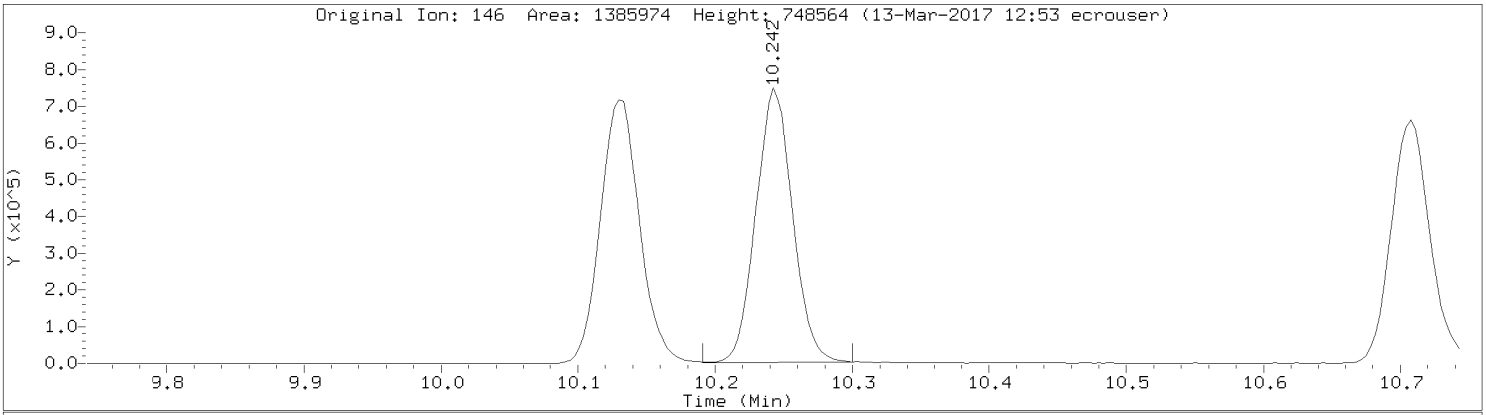
Data File: \\192.168.10.12\chem\10airD.i\031317.b\07210.D
Date : 13-MAR-2017 11:59
Client ID:
Sample Info:

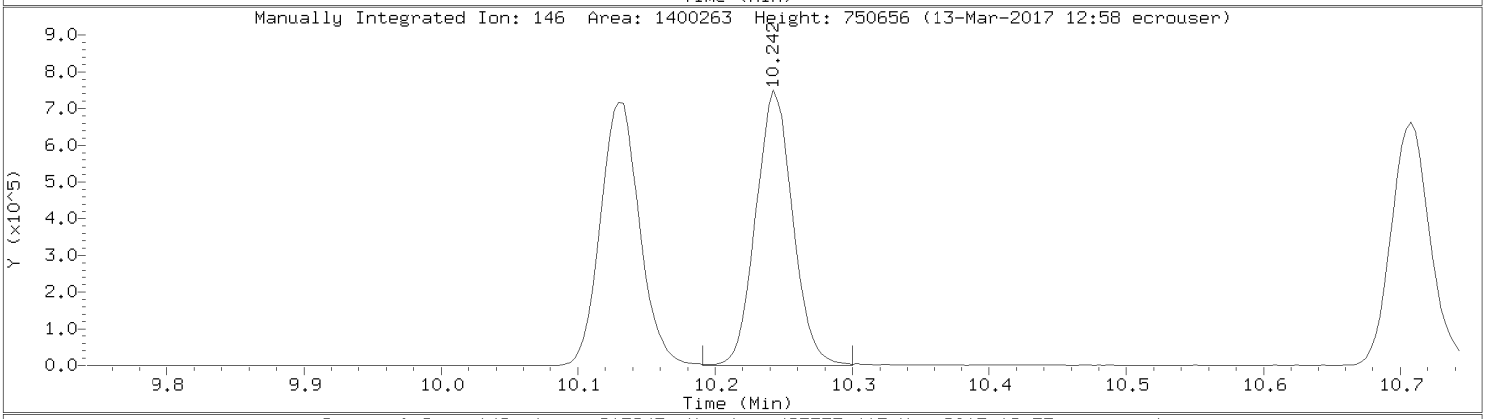
Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

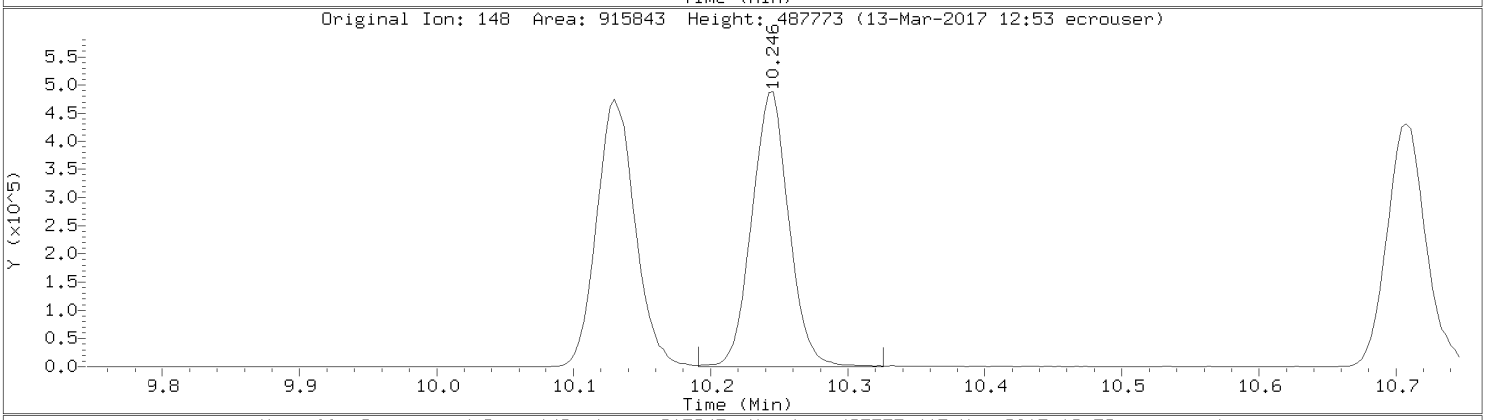


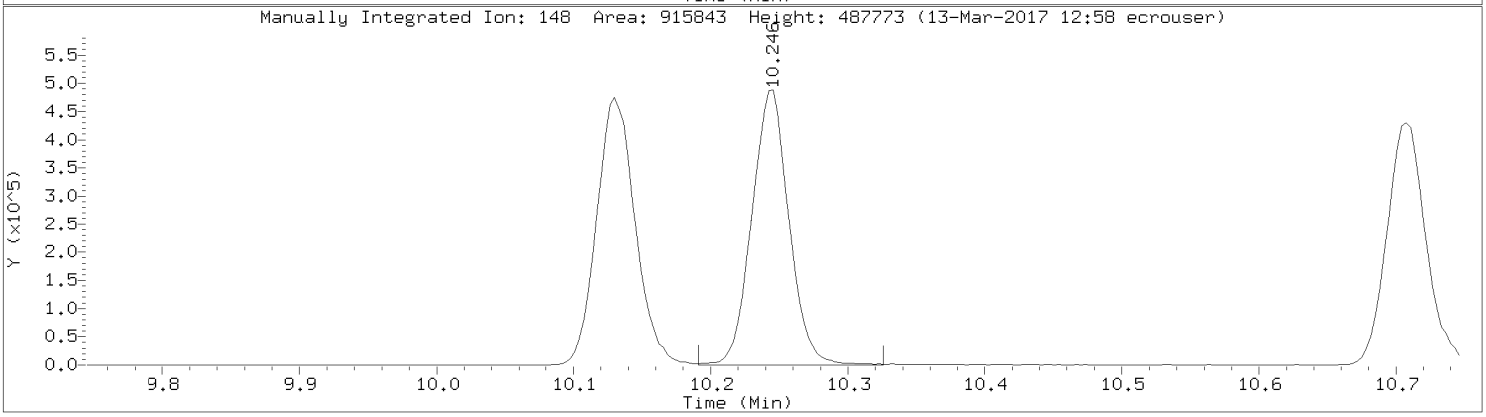
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07210.d
Injection Date: 13-MAR-2017 11:59
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

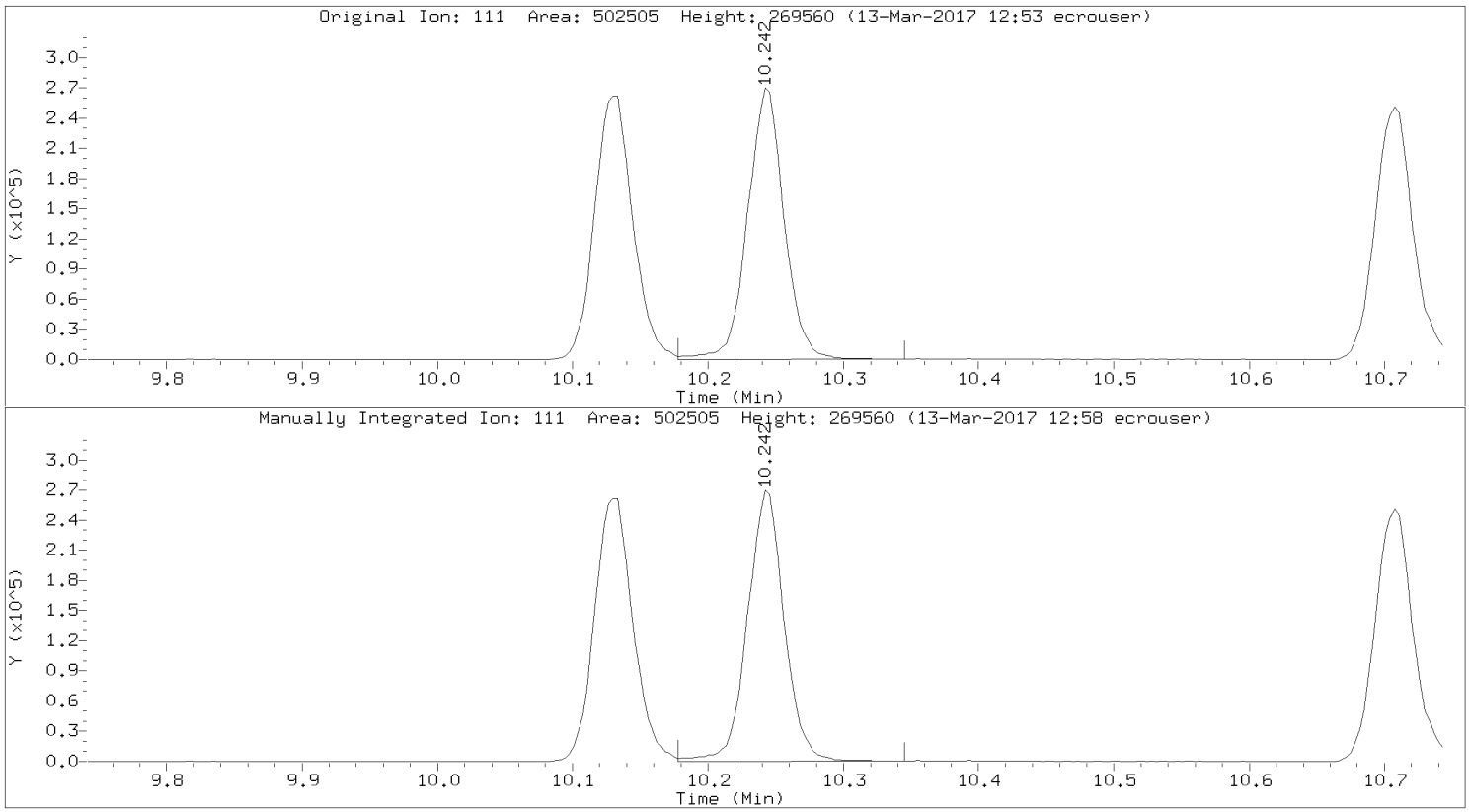






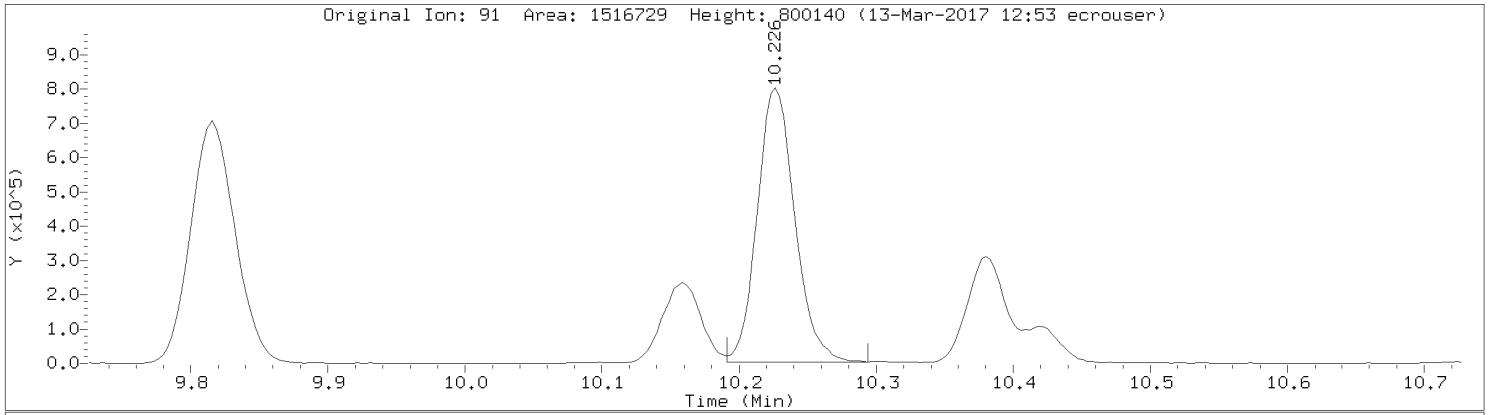


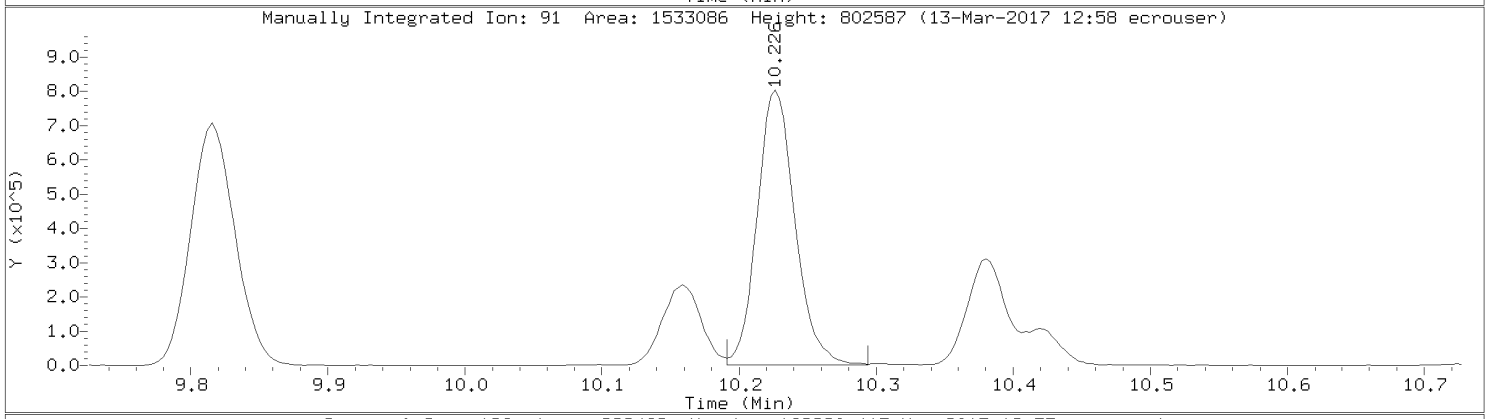
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07210.d
Injection Date: 13-MAR-2017 11:59
Instrument: 10airD.i
Lab Sample ID: CAL6

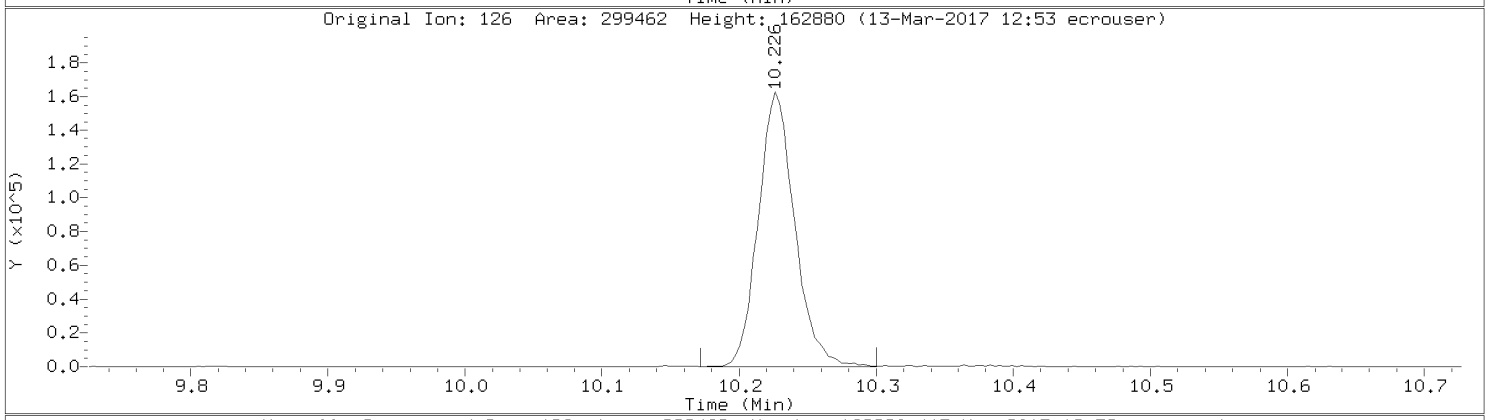


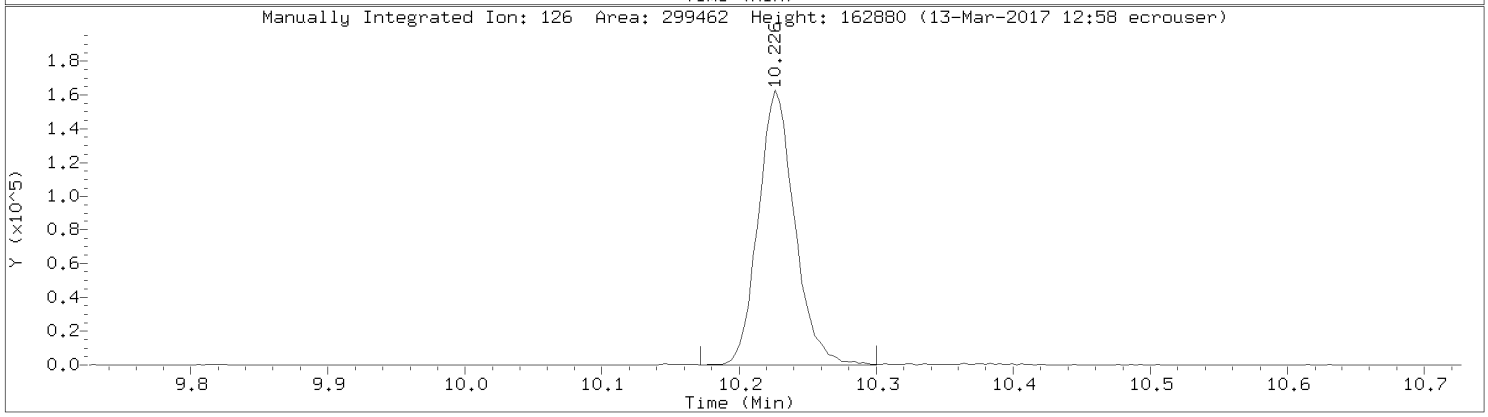
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07210.d
Injection Date: 13-MAR-2017 11:59
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: Benzyl Chloride
CAS Number: 100-44-7



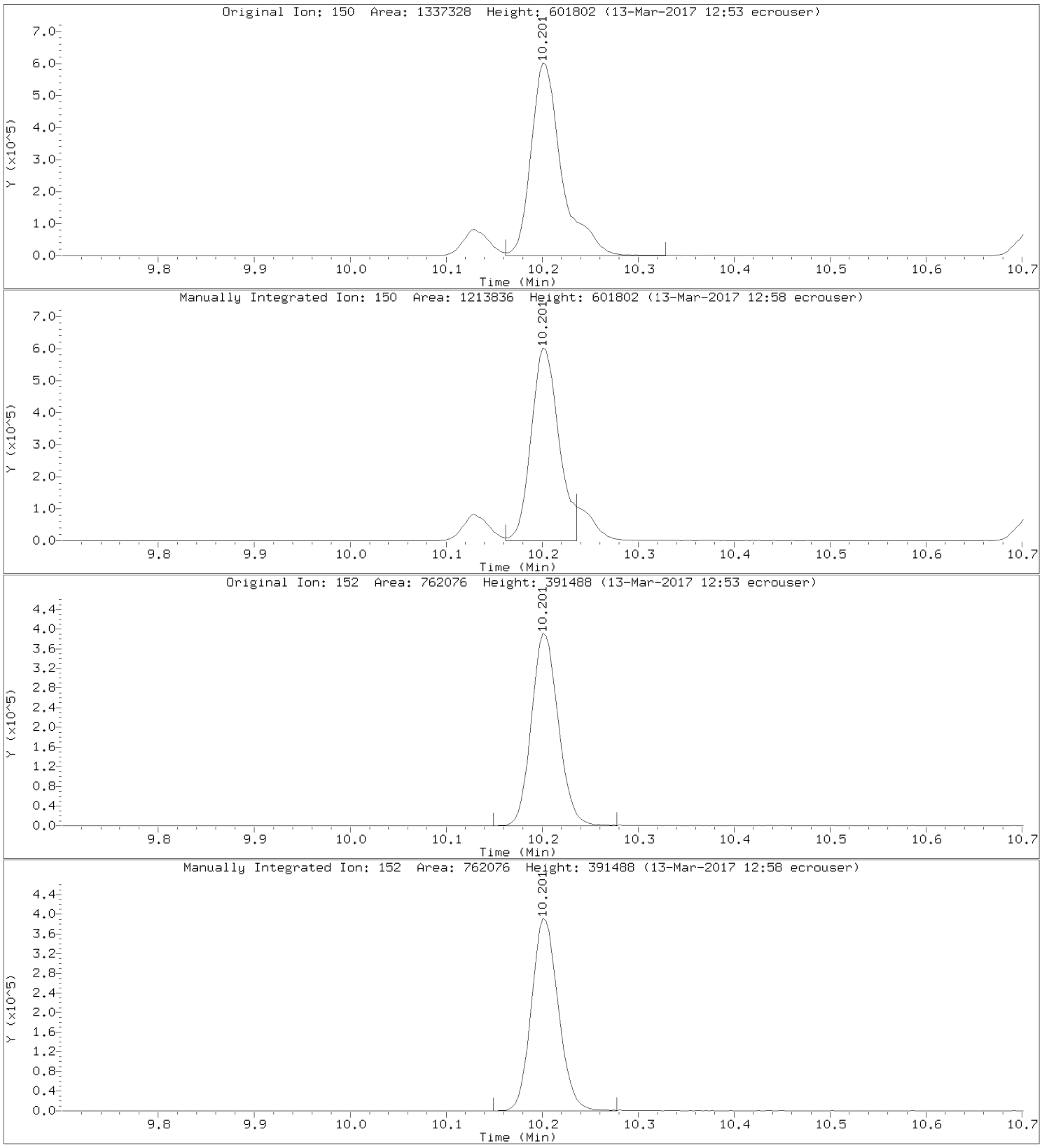






Data File: \\192.168.10.12\chem\10airD.i\031317.b/07210.d
Injection Date: 13-MAR-2017 11:59
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airD.i\031317.b\07211.d
Report Date: 13-Mar-2017 12:55

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031317.b\07211.d
Lab Smp Id: CAL7
Inj Date : 13-MAR-2017 12:24
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Meth Date : 13-Mar-2017 12:53 ecrouser Quant Type: ISTD
Cal Date : 13-MAR-2017 12:24 Cal File: 07211.d
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.066	2.066	(0.485)	114250	30.0000	30.9(A)
2	1,1-Difluoroethane	65	2.117	2.117	(0.497)	462862	30.0000	29.7
3	Chlorodifluoromethane	67	2.127	2.127	(0.500)	245621	30.0000	29.5
4	Propylene	41	2.133	2.133	(0.501)	1540188	30.0000	28.7
5	Dichlorodifluoromethane	85	2.152	2.152	(0.506)	1794504	30.0000	23.3(M)
6	Dichlorotetrafluoroethane	85	2.220	2.220	(0.521)	1809622	30.0000	24.0
7	Chloromethane	50	2.220	2.220	(0.521)	906102	30.0000	27.1
8	Vinyl chloride	62	2.277	2.277	(0.535)	759682	30.0000	29.8
9	1,3-Butadiene	54	2.306	2.306	(0.542)	535726	30.0000	31.1(A)
10	Bromomethane	94	2.412	2.412	(0.567)	848884	30.0000	29.3
11	Chloroethane	64	2.447	2.447	(0.575)	301254	30.0000	29.9
12	Ethanol	45	2.512	2.512	(0.590)	971422	150.000	142
13	Vinyl Bromide	106	2.537	2.537	(0.596)	809476	30.0000	30.0
14	Isopentane	43	2.550	2.550	(0.599)	840359	30.0000	27.8
15	Freon 123	83	2.553	2.553	(0.600)	1970704	30.0000	28.9
16	Trichlorofluoromethane	101	2.608	2.608	(0.613)	2014975	30.0000	25.5
17	Acrolein	56	2.618	2.618	(0.615)	589652	75.0000	104(A)
18	Acetone	43	2.646	2.646	(0.622)	3829989	150.000	87.9
19	Isopropyl Alcohol	45	2.695	2.695	(0.633)	3767314	150.000	110
20	1,1-Dichloroethene	61	2.797	2.797	(0.657)	1309521	30.0000	28.8
21	Acrylonitrile	53	2.817	2.817	(0.662)	1269703	75.0000	83.3(A)
24	Tert Butyl Alcohol (TBA)	59	2.849	2.849	(0.669)	2919495	75.0000	62.6
22	Freon 113	101	2.829	2.829	(0.665)	1676983	30.0000	27.8

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07211.d
Report Date: 13-Mar-2017 12:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	23 Methyl Acetate	43	2.842	2.842	(0.668)	1840821	30.0000	28.2
	25 Methylene chloride	49	2.874	2.874	(0.675)	3380524	150.000	111
	26 Allyl Chloride	76	2.884	2.884	(0.677)	608566	75.0000	94.7(A)
	27 Carbon Disulfide	76	2.967	2.967	(0.697)	1833686	30.0000	28.6
	28 trans-1,2-dichloroethene	96	3.096	3.096	(0.727)	714328	30.0000	32.6(A)
	29 Methyl Tert Butyl Ether	73	3.121	3.121	(0.733)	3391161	75.0000	57.7
	30 Vinyl Acetate	43	3.202	3.202	(0.752)	2052527	30.0000	35.4(A)
	31 1,1-Dichloroethane	63	3.211	3.211	(0.754)	1420173	30.0000	29.5
$	32 Hexane-d14(S)	66	3.272	3.272	(0.769)	1415473	10.0000	10.0
	33 Methyl Ethyl Ketone	72	3.346	3.346	(0.786)	314047	30.0000	31.5(A)
	34 n-Hexane	57	3.352	3.352	(0.787)	1066116	30.0000	29.7(M)
	35 Di-isopropyl Ether	45	3.378	3.378	(0.793)	2471615	30.0000	27.7
	36 cis-1,2-Dichloroethene	96	3.478	3.478	(0.817)	810517	30.0000	33.0(A)
	37 Ethyl Acetate	43	3.487	3.487	(0.819)	1794270	30.0000	29.6
	38 Ethyl Tert-Butyl Ether	59	3.574	3.574	(0.839)	3967139	75.0000	54.9
	39 Chloroform	83	3.580	3.580	(0.841)	1789417	30.0000	28.1
	40 Tetrahydrofuran	42	3.712	3.712	(0.872)	893059	30.0000	30.4(A)
	41 1,1,1-Trichloroethane	97	3.908	3.908	(0.918)	1929316	30.0000	29.7
	42 1,2-Dichloroethane	62	3.924	3.924	(0.922)	1386582	30.0000	30.0(A)
	43 Benzene	78	4.113	4.113	(0.966)	2090575	30.0000	28.9
	45 Carbon tetrachloride	117	4.126	4.126	(0.969)	1947599	30.0000	31.1(A)
	44 Cyclohexane	56	4.123	4.123	(0.968)	1030251	30.0000	28.1
	46 Tert Amyl Methyl Ether	73	4.251	4.251	(0.998)	2157269	30.0000	11.3
*	47 1,4-Difluorobenzene	114	4.257	4.257	(1.000)	3080475	10.0000	
	48 2,2,4-Trimethylpentane	57	4.382	4.382	(1.029)	4948614	75.0000	43.7
	49 Heptane	43	4.501	4.501	(1.057)	1527130	30.0000	28.1
	50 1,2-Dichloropropane	63	4.565	4.565	(1.072)	974510	30.0000	29.6
	51 Trichloroethene	130	4.581	4.581	(1.076)	1220554	30.0000	29.0
	52 Methyl methacrylate	69	4.662	4.662	(1.095)	823534	30.0000	35.2(A)
	53 Bromodichloromethane	83	4.674	4.674	(1.098)	2130033	30.0000	30.2(A)
	54 1,4-Dioxane	88	4.678	4.678	(1.099)	214543	30.0000	27.9
	55 Methylcyclohexane	98	4.966	4.966	(1.167)	446586	30.0000	30.4(A)
	56 Methyl Isobutyl Ketone	43	5.104	5.104	(1.199)	4001188	75.0000	59.4
	57 cis-1,3-Dichloropropene	75	5.137	5.137	(1.206)	1443129	30.0000	32.0(A)
	58 trans-1,3-Dichloropropene	75	5.515	5.515	(1.295)	1373507	30.0000	35.3(A)
$	59 Toluene-d8 (S)	98	5.573	5.573	(1.309)	2902176	10.0000	9.93
	60 Toluene	91	5.644	5.644	(1.326)	2638975	30.0000	27.3
	61 1,1,2-Trichloroethane	97	5.653	5.653	(1.328)	1130036	30.0000	29.6
	62 Methyl Butyl Ketone	43	5.891	5.891	(0.837)	4075929	75.0000	66.1
	63 n-Octane	43	6.061	6.061	(0.861)	1854410	30.0000	28.6
	64 Dibromochloromethane	129	6.138	6.138	(0.872)	2360022	30.0000	34.6(A)
	65 1,2-Dibromoethane	107	6.346	6.346	(0.902)	1908665	30.0000	31.8(A)
	66 Tetrachloroethene	166	6.410	6.410	(0.911)	1865023	30.0000	28.7
*	67 Chlorobenzene - d5	117	7.039	7.039	(1.000)	2217871	10.0000	
	68 Chlorobenzene	112	7.078	7.078	(1.005)	2202448	30.0000	29.0
	69 Ethyl Benzene	91	7.325	7.325	(1.041)	3250429	30.0000	26.9
	70 m&p-Xylene	91	7.469	7.469	(1.061)	4318868	60.0000	47.0
	71 Bromoform	173	7.835	7.835	(1.113)	2484927	30.0000	40.7(A)
	72 n-Nonane	43	7.867	7.867	(1.118)	1830839	30.0000	30.4(A)
	73 Styrene	104	7.877	7.877	(1.119)	2038325	30.0000	32.2(A)
	74 o-Xylene	91	7.938	7.938	(1.128)	2712316	30.0000	27.4
	75 1,1,2,2-Tetrachloroethane	83	8.204	8.204	(1.165)	2079784	30.0000	30.8(A)
	76 Isopropylbenzene	105	8.506	8.506	(1.208)	3308035	30.0000	26.3
	77 N-Propylbenzene	91	9.064	9.064	(1.288)	3726197	30.0000	28.4

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07211.d
Report Date: 13-Mar-2017 12:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.238	9.238	(1.312)	3230942	30.0000	30.4(A)
79	1,3,5-Trimethylbenzene	105	9.327	9.327	(1.325)	2799269	30.0000	26.6
80	n-Decane	57	9.732	9.732	(2.286)	1620885	30.0000	33.9(A)
81	Tert-Butyl Benzene	119	9.818	9.818	(1.395)	2915501	30.0000	29.4
82	1,2,4-Trimethylbenzene	105	9.838	9.838	(1.397)	2714429	30.0000	23.0
83	1,3-Dichlorobenzene	146	10.133	10.133	(1.439)	2088971	30.0000	30.4(A)
84	Sec- Butylbenzene	105	10.162	10.162	(1.444)	3565487	30.0000	28.8
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.207	10.207	(1.450)	1157874	10.0000	9.88(M)
86	Benzyl Chloride	91	10.232	10.232	(1.454)	2219665	30.0000	32.1(A)
87	1,4-Dichlorobenzene	146	10.248	10.248	(1.456)	2022910	30.0000	28.8
88	p-Isopropyltoluene	119	10.383	10.383	(1.475)	3340956	30.0000	29.5
89	1,2,3-Trimethylbenzene	105	10.428	10.428	(1.481)	2701460	30.0000	30.7(A)
90	1,2-Dichlorobenzene	146	10.710	10.710	(1.521)	1924654	30.0000	29.9
91	N-Butylbenzene	91	10.974	10.974	(1.559)	2846886	30.0000	29.7
92	1,2-Dibromo-3-Chloropropane	157	11.532	11.532	(1.638)	605012	30.0000	33.4(A)
93	1,2,4-Trichlorobenzene	180	12.838	12.838	(1.824)	572934	30.0000	20.2
94	Naphthalene	128	12.957	12.957	(1.841)	919116	30.0000	17.2
95	Hexachlorobutadiene	225	13.217	13.217	(1.877)	703211	30.0000	20.3

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07211.d
Report Date: 13-Mar-2017 12:55

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07211.d
Lab Smp Id: CAL7
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Misc Info:

Calibration Date: 13-MAR-2017
Calibration Time: 11:34
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

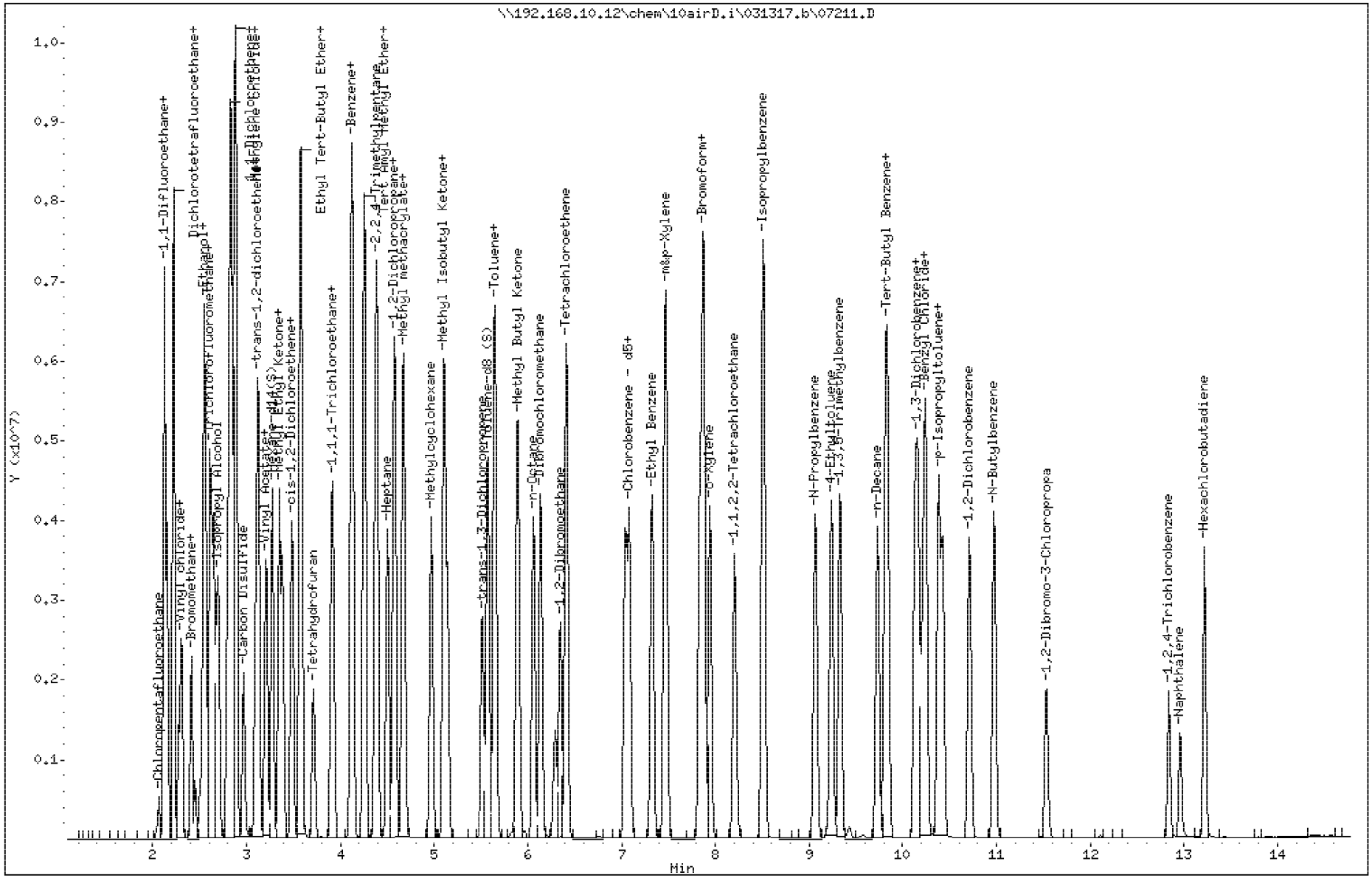
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2916193	1749716	4082670	3080475	5.63
67 Chlorobenzene - d	2134582	1280749	2988415	2217871	3.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.26	0.23
67 Chlorobenzene - d	7.03	6.70	7.36	7.04	0.14

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

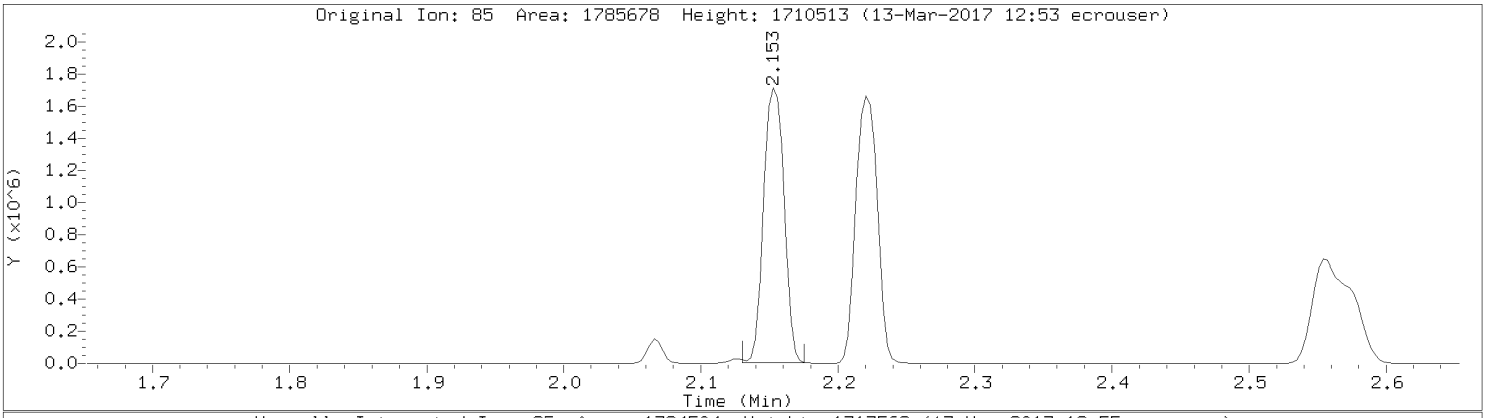
Data File: \\192.168.10.12\chem\10airD.i\031317.b\07211.D
Date : 13-MAR-2017 12:24
Client ID:
Sample Info:

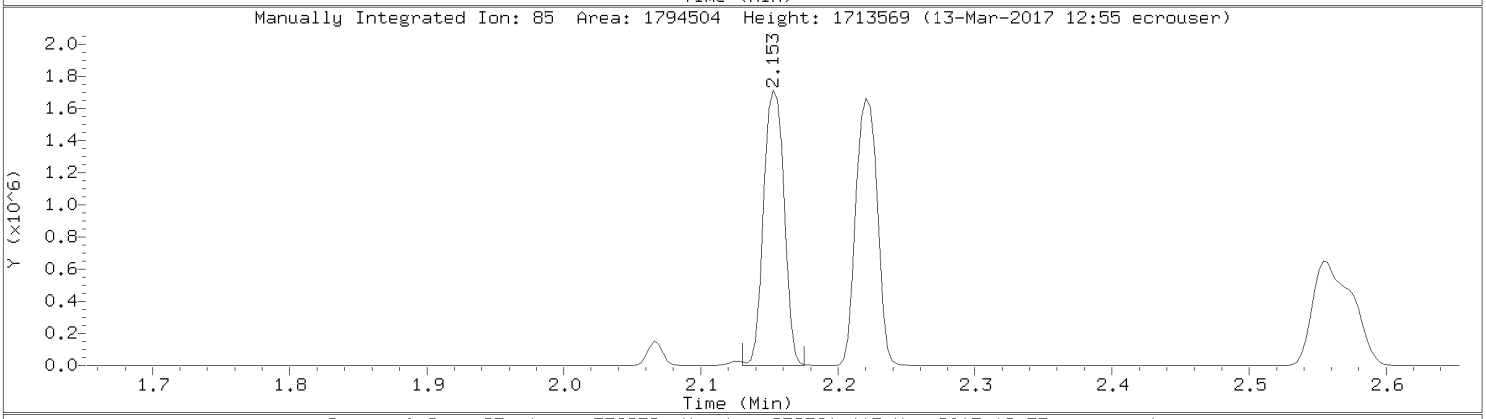
Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

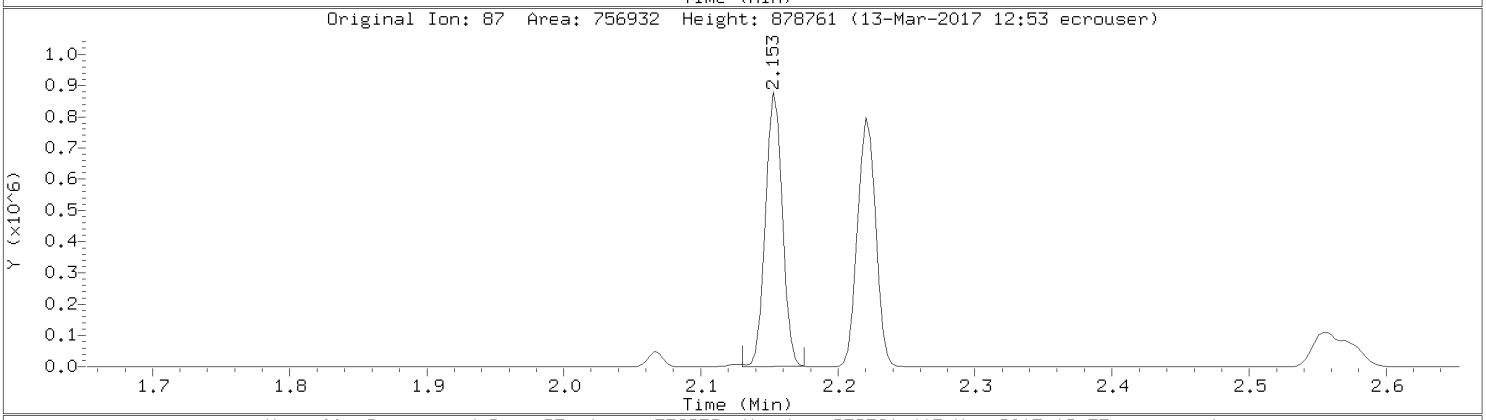


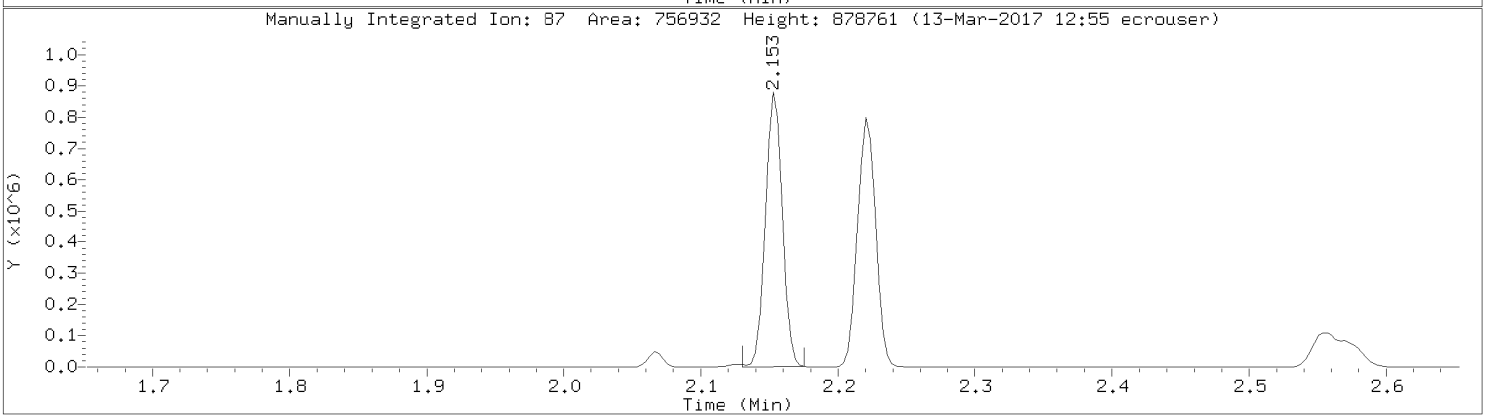
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07211.d
Injection Date: 13-MAR-2017 12:24
Instrument: 10airD.i
Lab Sample ID: CAL7

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



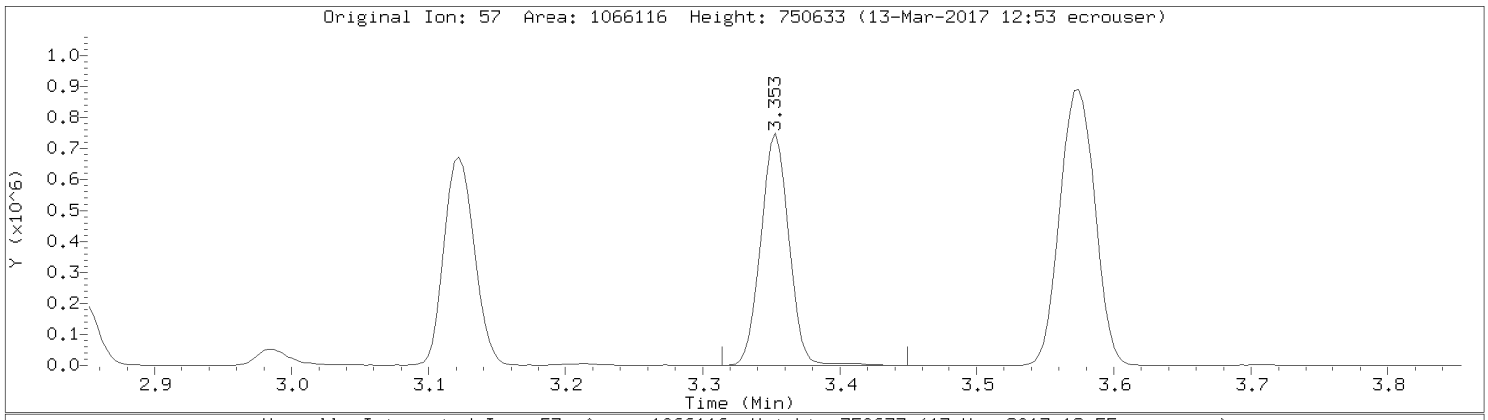


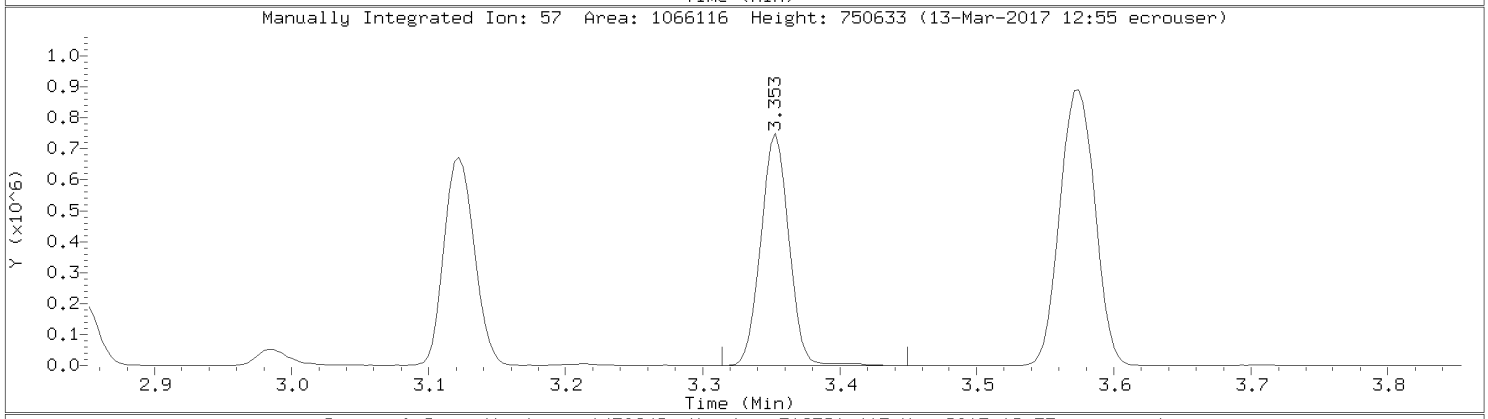


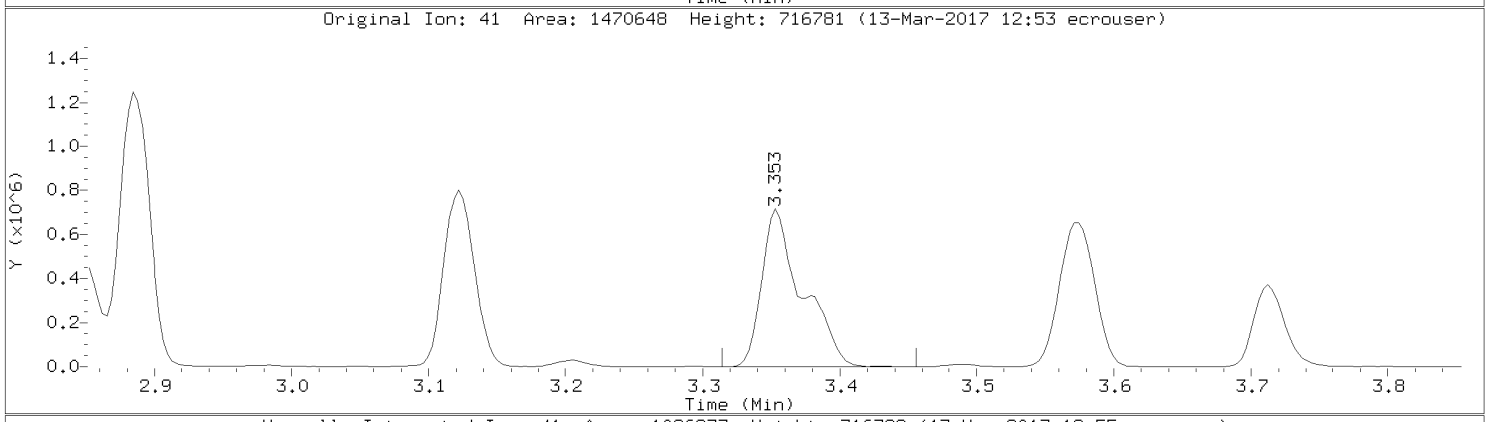


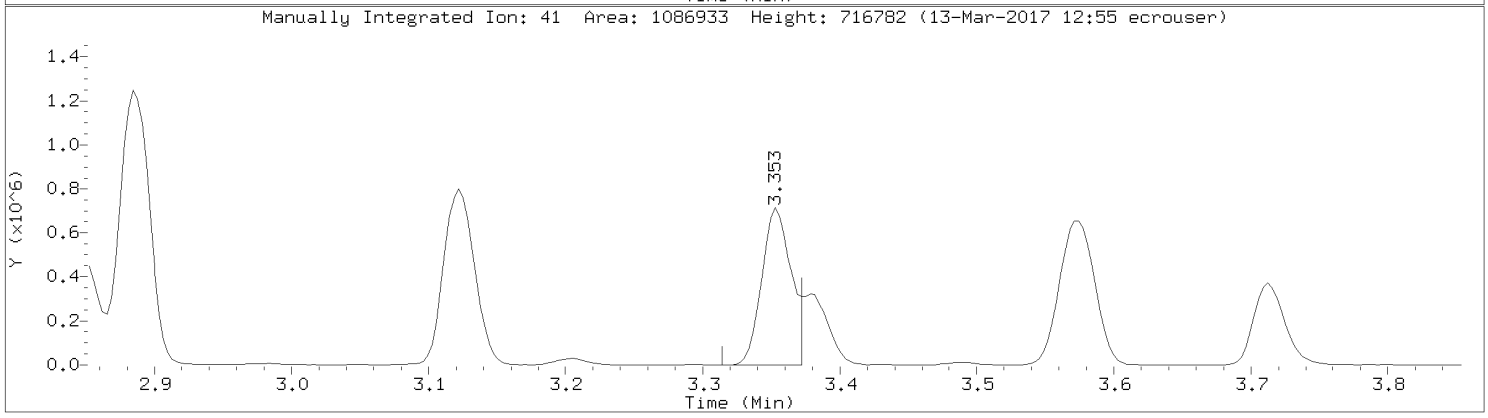
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07211.d
Injection Date: 13-MAR-2017 12:24
Instrument: 10airD.i
Lab Sample ID: CAL7

Compound: n-Hexane
CAS Number: 110-54-3

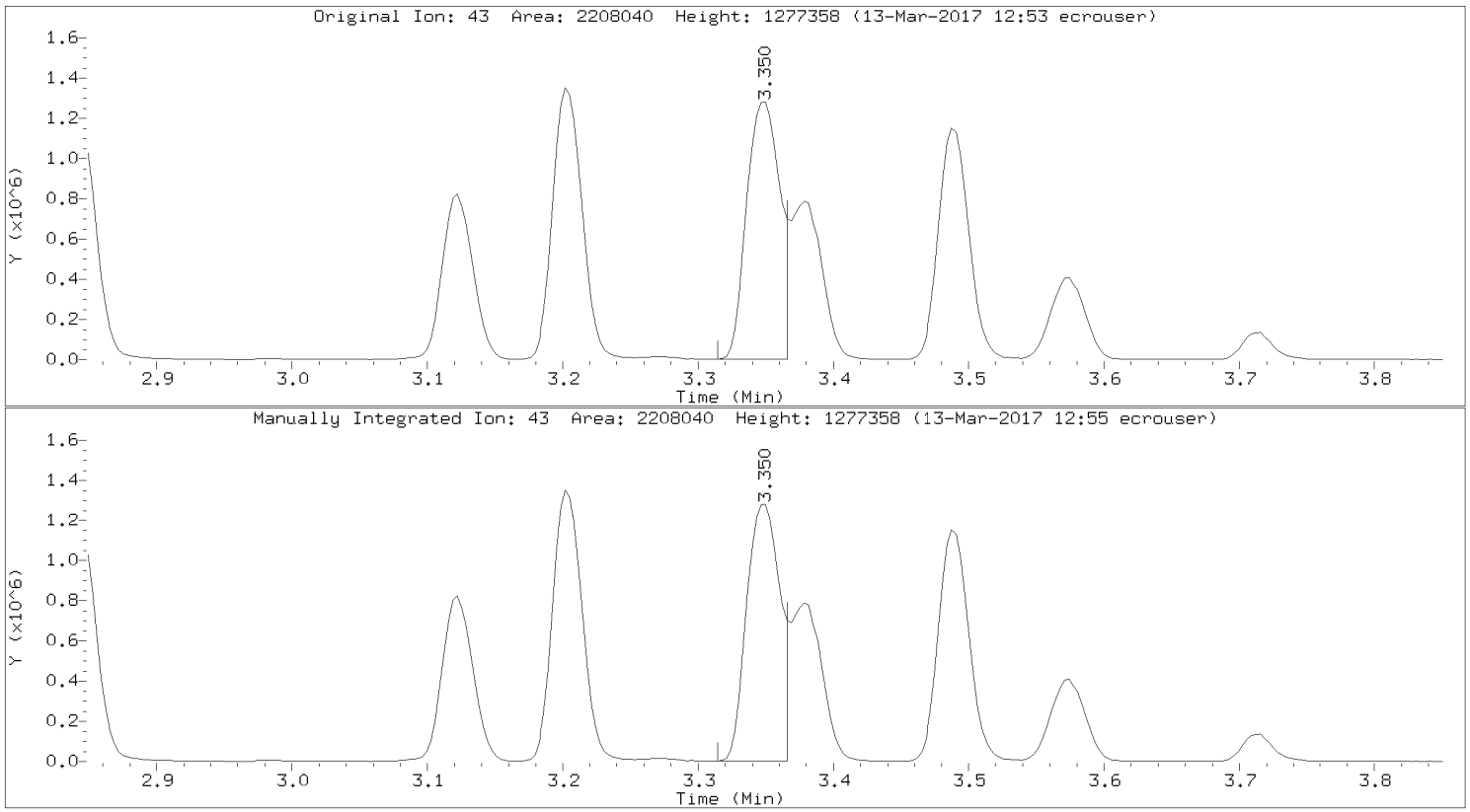






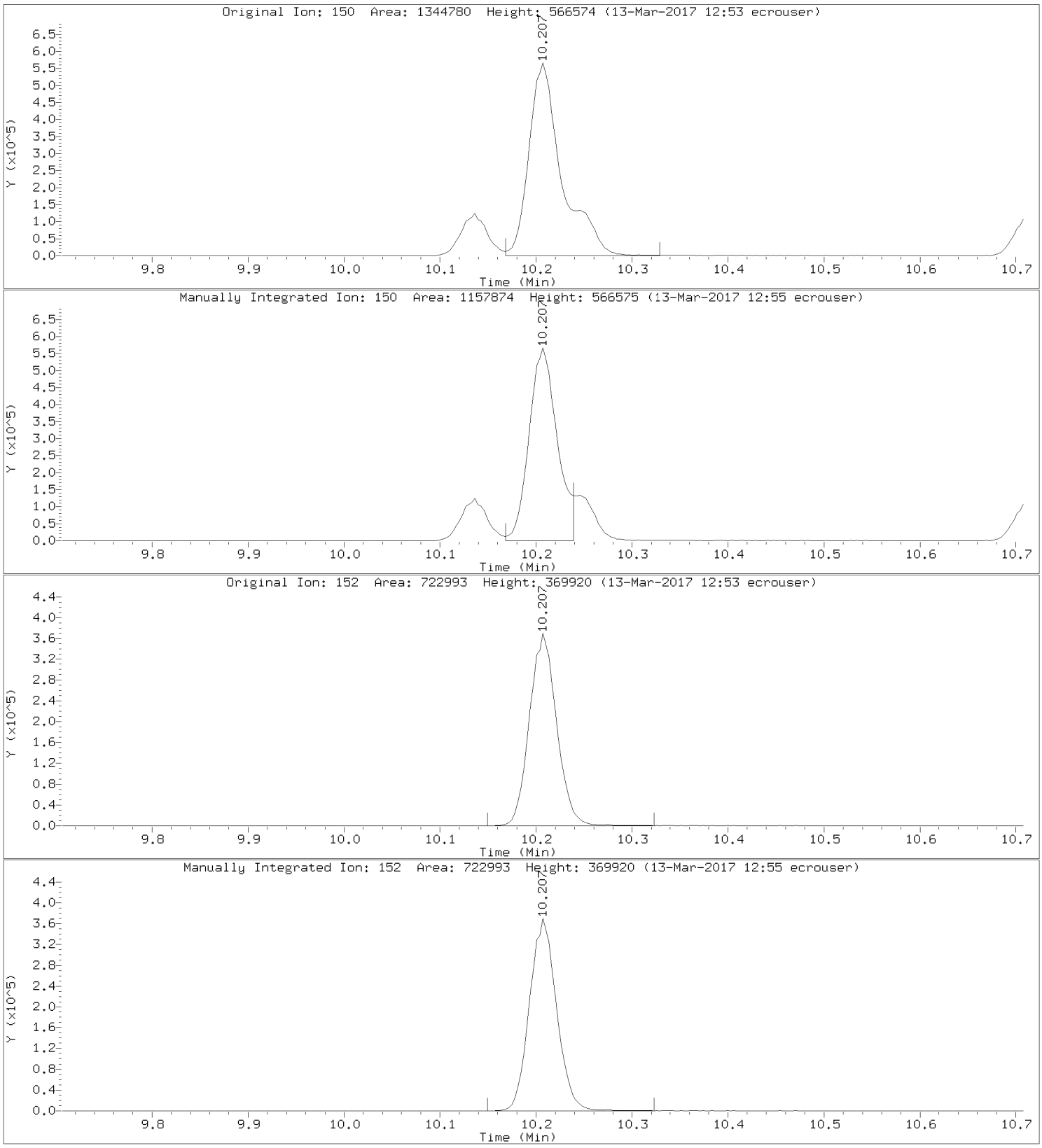


Data File: \\192.168.10.12\chem\10airD.i\031317.b/07211.d
Injection Date: 13-MAR-2017 12:24
Instrument: 10airD.i
Lab Sample ID: CAL7



Data File: \\192.168.10.12\chem\10airD.i\031317.b/07211.d
Injection Date: 13-MAR-2017 12:24
Instrument: 10airD.i
Lab Sample ID: CAL7

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airD.i\031317.b\07213.d
Report Date: 13-Mar-2017 13:33

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031317.b\07213.d
Lab Smp Id: ICV
Inj Date : 13-MAR-2017 13:11
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Meth Date : 13-Mar-2017 13:32 ecrouser Quant Type: ISTD
Cal Date : 13-MAR-2017 09:58 Cal File: 07205.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 1,1-Difluoroethane	65	2.110	2.114	(0.497)	2679	0.17758	0.178(Q)
3 Chlorodifluoromethane	67	2.120	2.130	(0.499)	87249	10.8192	10.8(Q)
4 Propylene	41	2.123	2.133	(0.500)	202777	3.90455	3.90(R)
5 Dichlorodifluoromethane	85	2.146	2.149	(0.505)	796945	10.6643	10.7
6 Dichlorotetrafluoroethane	85	2.216	2.214	(0.522)	779454	10.6829	10.7
7 Chloromethane	50	2.213	2.220	(0.521)	331808	10.2263	10.2
8 Vinyl chloride	62	2.271	2.271	(0.535)	264933	10.7109	10.7
9 1,3-Butadiene	54	2.300	2.300	(0.541)	184180	11.0270	11.0(Q)
10 Bromomethane	94	2.405	2.413	(0.566)	290986	10.3565	10.4
11 Chloroethane	64	2.444	2.441	(0.575)	105887	10.8292	10.8
12 Ethanol	45	2.499	2.515	(0.588)	88423	13.2090	13.2
13 Vinyl Bromide	106	2.534	2.531	(0.597)	292997	11.1947	11.2
14 Isopentane	43	2.543	2.538	(0.599)	277784	9.49327	9.49
15 Freon 123	83	2.550	2.541	(0.600)	12632	0.19129	0.191
16 Trichlorofluoromethane	101	2.604	2.599	(0.613)	822683	10.7251	10.7
17 Acrolein	56	2.604	2.618	(0.613)	75453	10.3411	10.3
18 Acetone	43	2.636	2.644	(0.621)	512648	12.4605	12.5
19 Isopropyl Alcohol	45	2.672	2.679	(0.629)	416442	12.5616	12.6(M)
20 1,1-Dichloroethene	61	2.791	2.788	(0.657)	476170	10.7938	10.8
21 Acrylonitrile	53	2.803	2.814	(0.660)	192480	11.0811	11.1(M)
24 Tert Butyl Alcohol (TBA)	59	2.823	2.839	(0.665)	564765	12.4233	12.4
22 Freon 113	101	2.823	2.817	(0.665)	630121	10.7805	10.8
23 Methyl Acetate	43	2.823	2.833	(0.665)	113791	1.80161	1.80(Q)

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07213.d
Report Date: 13-Mar-2017 13:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
25	Methylene chloride	49	2.868	2.865	(0.675)	390410	13.1979	13.2(M)
26	Allyl Chloride	76	2.877	2.871	(0.677)	103919	12.7148	12.7(Q)
27	Carbon Disulfide	76	2.961	2.958	(0.697)	757727	12.1726	12.2
28	trans-1,2-dichloroethene	96	3.086	3.080	(0.727)	253169	11.9353	11.9
29	Methyl Tert Butyl Ether	73	3.115	3.115	(0.733)	696412	12.2153	12.2
30	Vinyl Acetate	43	3.192	3.186	(0.751)	784850	10.6108	10.6
31	1,1-Dichloroethane	63	3.195	3.186	(0.752)	511364	10.9769	11.0
$ 32	Hexane-d14(S)	66	3.269	3.263	(0.770)	1379303	10.0662	10.1
33	Methyl Ethyl Ketone	72	3.339	3.350	(0.786)	105945	10.3739	10.4(Q)
34	n-Hexane	57	3.349	3.343	(0.788)	381582	10.9818	11.0(QM)
35	Di-isopropyl Ether	45	3.371	3.369	(0.794)	944656	10.9132	10.9
36	cis-1,2-Dichloroethene	96	3.464	3.459	(0.816)	272127	11.4292	11.4
37	Ethyl Acetate	43	3.477	3.484	(0.819)	673217	11.6301	11.6(Q)
38	Ethyl Tert-Butyl Ether	59	3.564	3.561	(0.839)	889032	12.6851	12.7
39	Chloroform	83	3.564	3.549	(0.839)	670016	10.8730	10.9
40	Tetrahydrofuran	42	3.702	3.725	(0.872)	312884	11.0034	11.0
41	1,1,1-Trichloroethane	97	3.898	3.882	(0.918)	674780	10.7023	10.7
42	1,2-Dichloroethane	62	3.910	3.905	(0.921)	471787	10.5437	10.5
43	Benzene	78	4.103	4.097	(0.966)	754716	10.7545	10.8
45	Carbon tetrachloride	117	4.116	4.107	(0.969)	673017	11.1051	11.1
44	Cyclohexane	56	4.119	4.110	(0.970)	360205	10.1417	10.1(Q)
46	Tert Amyl Methyl Ether	73	4.241	4.238	(0.998)	804210	10.6522	10.7(Q)
* 47	1,4-Difluorobenzene	114	4.247	4.238	(1.000)	2985825	10.0000	
48	2,2,4-Trimethylpentane	57	4.376	4.360	(1.030)	1268945	11.7055	11.7
49	Heptane	43	4.491	4.479	(1.057)	533714	10.1334	10.1
50	1,2-Dichloropropane	63	4.559	4.550	(1.073)	341904	10.7145	10.7
51	Trichloroethene	130	4.571	4.563	(1.076)	413134	10.1385	10.1
52	Methyl methacrylate	69	4.655	4.662	(1.096)	277344	11.3857	11.4
53	Bromodichloromethane	83	4.665	4.656	(1.098)	764995	11.1860	11.2
54	1,4-Dioxane	88	4.674	4.713	(1.100)	87929	10.6262	10.6(Q)
55	Methylcyclohexane	98	4.960	4.951	(1.168)	154445	10.8550	10.9(Q)
56	Methyl Isobutyl Ketone	43	5.095	5.102	(1.199)	873013	13.3659	13.4
57	cis-1,3-Dichloropropene	75	5.130	5.127	(1.208)	490344	11.2037	11.2(Q)
58	trans-1,3-Dichloropropene	75	5.505	5.506	(1.296)	442894	11.6047	11.6
$ 59	Toluene-d8 (S)	98	5.566	5.560	(1.310)	2794234	9.86104	9.86
60	Toluene	91	5.637	5.628	(1.327)	995084	10.6020	10.6
61	1,1,2-Trichloroethane	97	5.643	5.641	(1.329)	394091	10.6365	10.6(M)
62	Methyl Butyl Ketone	43	5.881	5.897	(0.836)	900621	13.0768	13.1
63	n-Octane	43	6.054	6.048	(0.861)	30316	0.49663	0.497
64	Dibromochloromethane	129	6.125	6.119	(0.871)	837360	10.5863	10.6
65	1,2-Dibromoethane	107	6.340	6.334	(0.901)	669013	11.8906	11.9
66	Tetrachloroethene	166	6.407	6.401	(0.911)	666792	10.9420	10.9
* 67	Chlorobenzene - d5	117	7.033	7.027	(1.000)	2078910	10.0000	
68	Chlorobenzene	112	7.074	7.065	(1.006)	806136	11.3066	11.3(Q)
69	Ethyl Benzene	91	7.315	7.319	(1.040)	1298663	11.4327	11.4
70	m&p-Xylene	91	7.459	7.454	(1.061)	1090020	12.6596	12.7
71	Bromoform	173	7.825	7.823	(1.113)	882169	10.5401	10.5
72	n-Nonane	43	7.861	7.855	(1.118)	47295	0.83851	0.839(M)
73	Styrene	104	7.867	7.871	(1.119)	722412	12.1900	12.2
74	o-Xylene	91	7.931	7.929	(1.128)	1031957	11.1305	11.1
75	1,1,2,2-Tetrachloroethane	83	8.194	8.195	(1.165)	788000	12.4504	12.5
76	Isopropylbenzene	105	8.499	8.493	(1.208)	1329486	11.2732	11.3
77	N-Propylbenzene	91	9.058	9.055	(1.288)	1573317	12.7205	12.7
78	4-Ethyltoluene	105	9.231	9.231	(1.313)	1238274	12.4305	12.4

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07213.d
Report Date: 13-Mar-2017 13:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
79	1,3,5-Trimethylbenzene	105	9.317	9.321	(1.325)	1094277	10.9898	11.0
80	n-Decane	57	9.725	9.710	(2.289)	61622	1.28495	1.28
81	Tert-Butyl Benzene	119	9.812	9.806	(1.395)	1106901	11.9152	11.9
82	1,2,4-Trimethylbenzene	105	9.831	9.825	(1.398)	1075831	11.5432	11.5
83	1,3-Dichlorobenzene	146	10.126	10.120	(1.440)	780191	12.1089	12.1
84	Sec- Butylbenzene	105	10.155	10.149	(1.444)	1481740	12.7778	12.8
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.200	10.191	(1.450)	1150034	10.6324	10.6
86	Benzyl Chloride	91	10.222	10.217	(1.454)	796810	12.1819	12.2
87	1,4-Dichlorobenzene	146	10.238	10.229	(1.456)	766167	11.6489	11.6(M)
88	p-Isopropyltoluene	119	10.376	10.371	(1.475)	1366962	12.8891	12.9
89	1,2,3-Trimethylbenzene	105	10.415	10.409	(1.481)	1094255	13.2607	13.3
90	1,2-Dichlorobenzene	146	10.704	10.704	(1.522)	746609	12.3727	12.4
91	N-Butylbenzene	91	10.970	10.974	(1.560)	1211900	13.5187	13.5
92	1,2-Dibromo-3-Chloropropane	157	11.528	11.529	(1.639)	63858	2.96622	2.97(Q)
93	1,2,4-Trichlorobenzene	180	12.838	12.848	(1.825)	290333	12.9320	12.9
94	Naphthalene	128	12.956	12.963	(1.842)	586597	13.5344	13.5
95	Hexachlorobutadiene	225	13.213	13.217	(1.879)	379489	12.4376	12.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07213.d
Report Date: 13-Mar-2017 13:33

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07213.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Misc Info:

Calibration Date: 13-MAR-2017
Calibration Time: 11:34
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

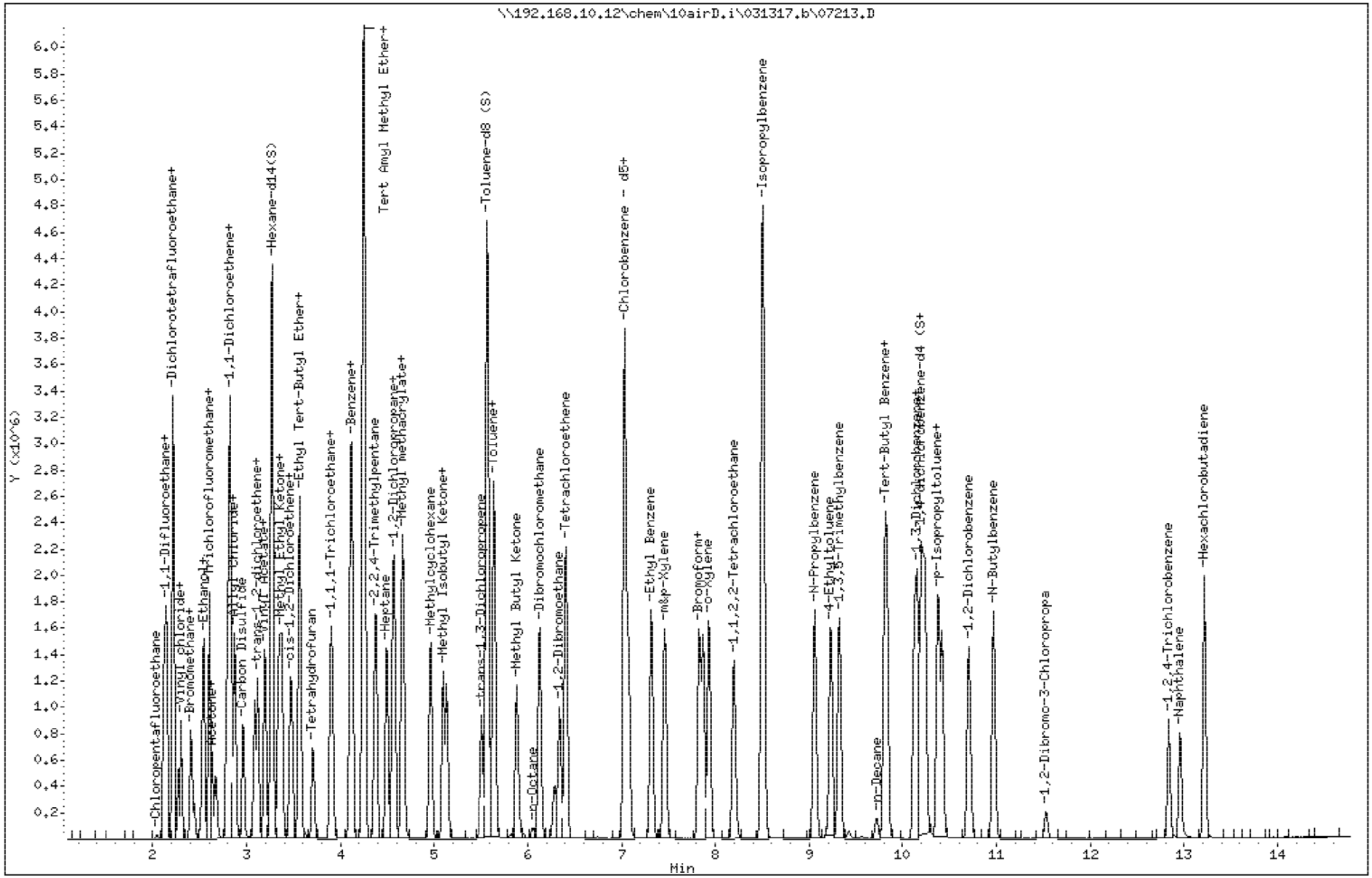
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2916193	1749716	4082670	2985825	2.39
67 Chlorobenzene - d	2134582	1280749	2988415	2078910	-2.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	-0.00
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

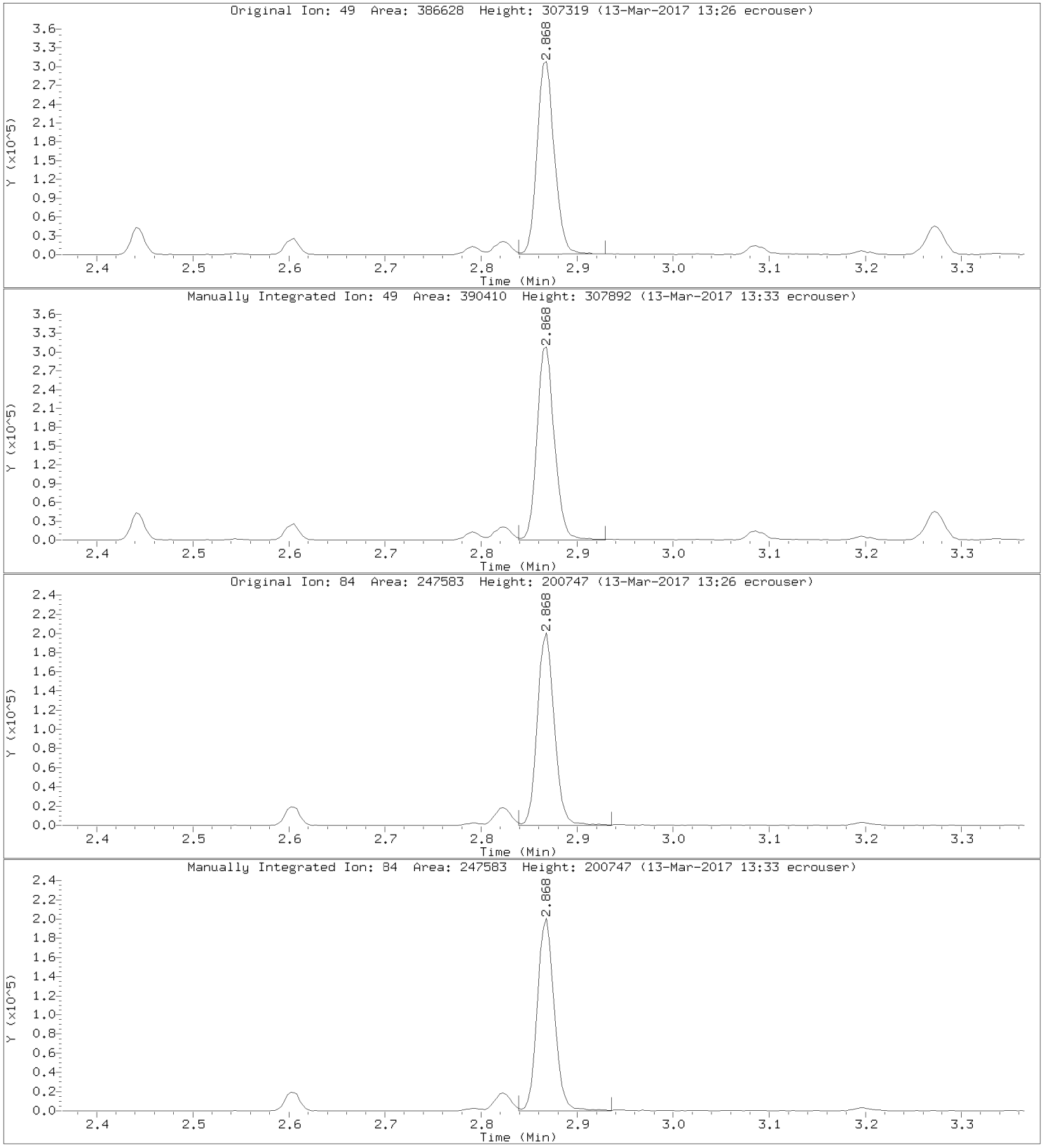
Data File: \\192.168.10.12\chem\10airD.i\031317.b\07213.D
Date : 13-MAR-2017 13:11
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

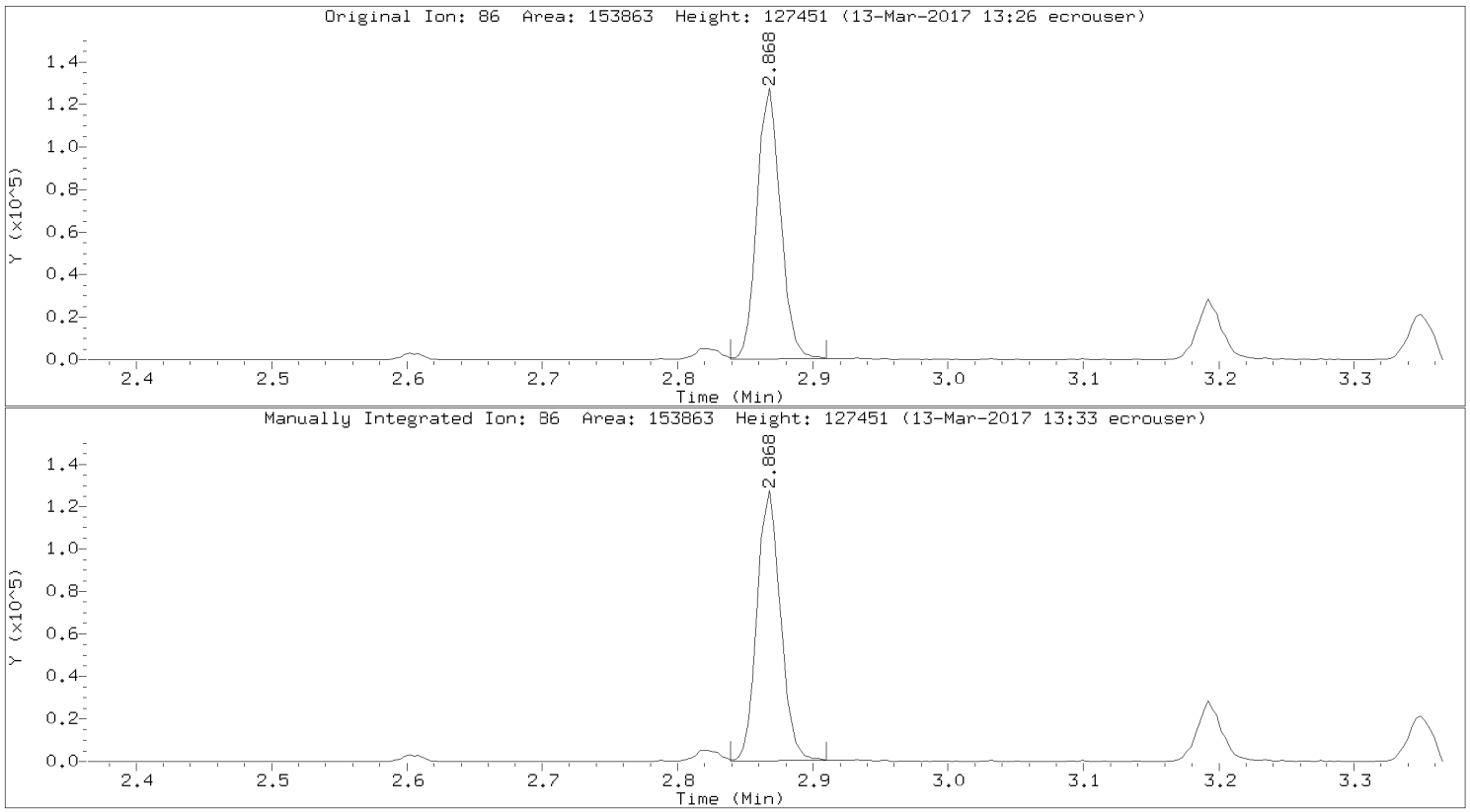


Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: Methylene chloride
CAS Number: 75-09-2

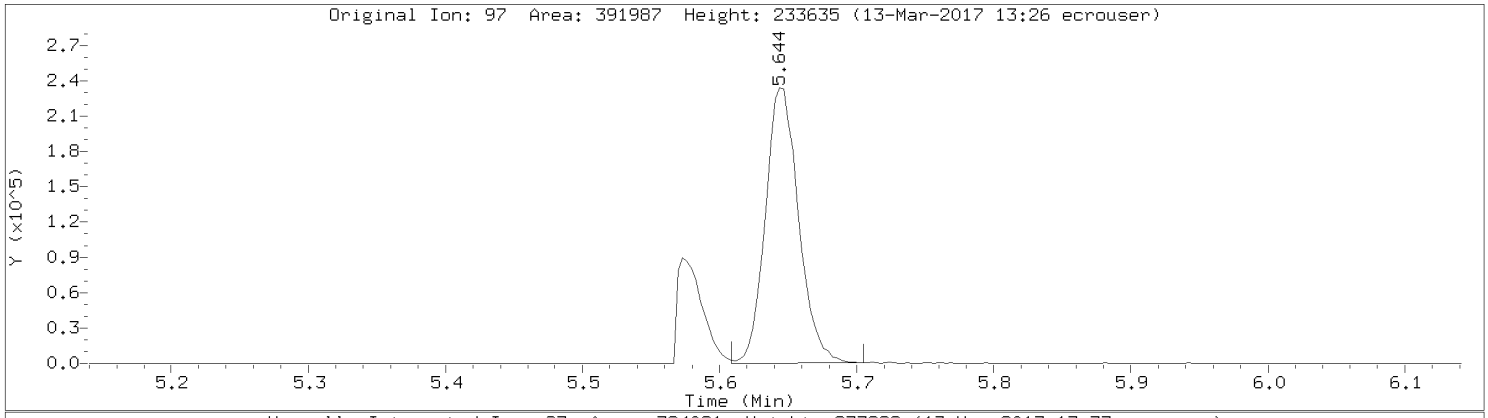


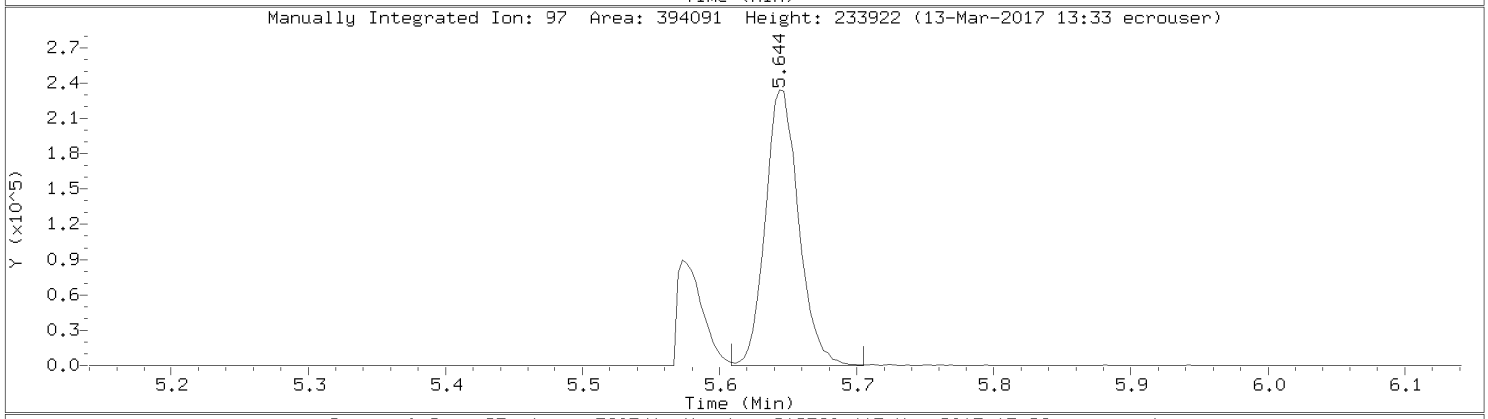
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

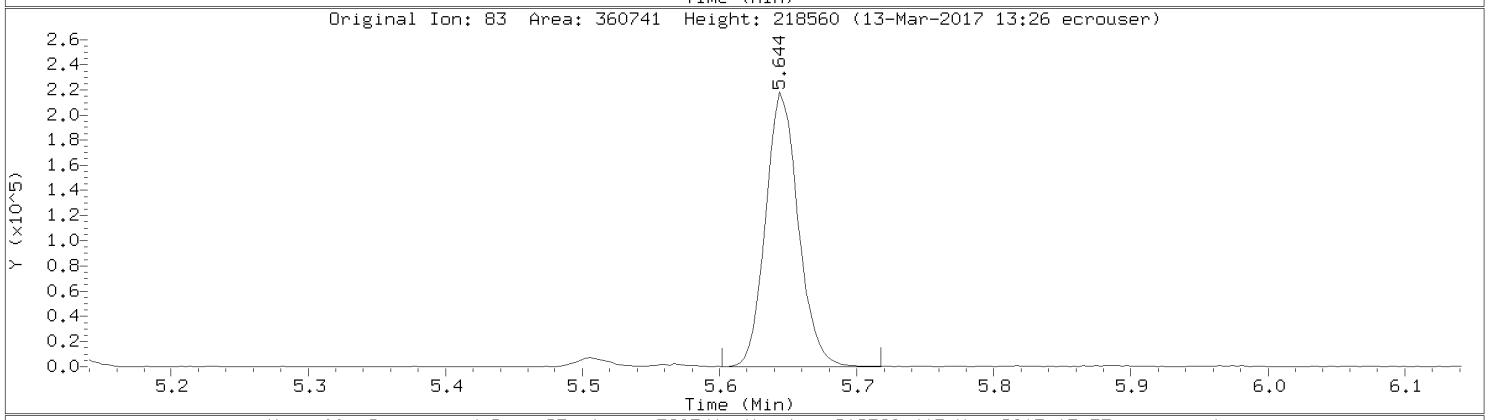


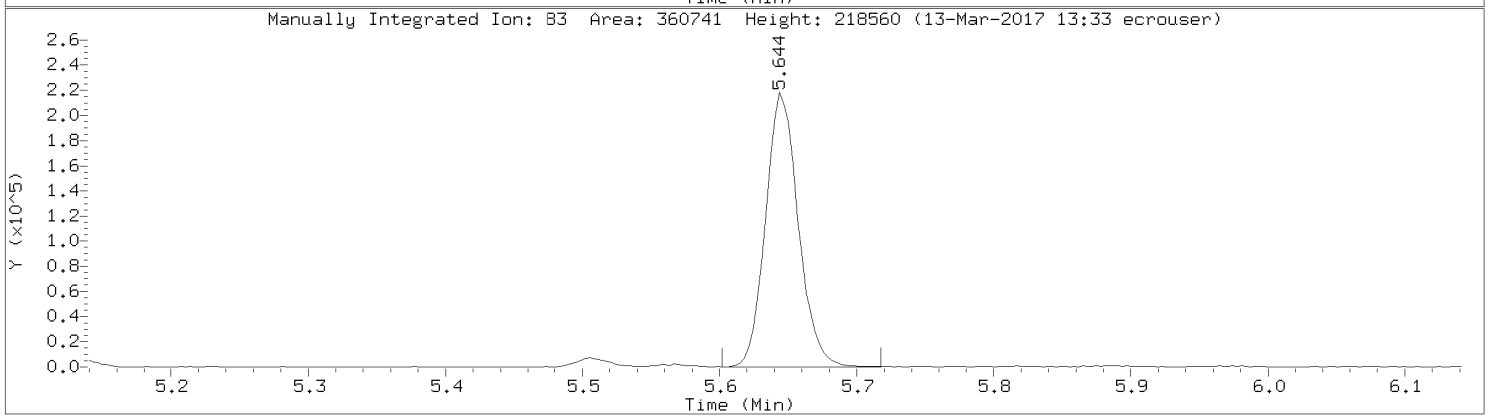
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: 1,1,2-Trichloroethane
CAS Number: 79-00-5

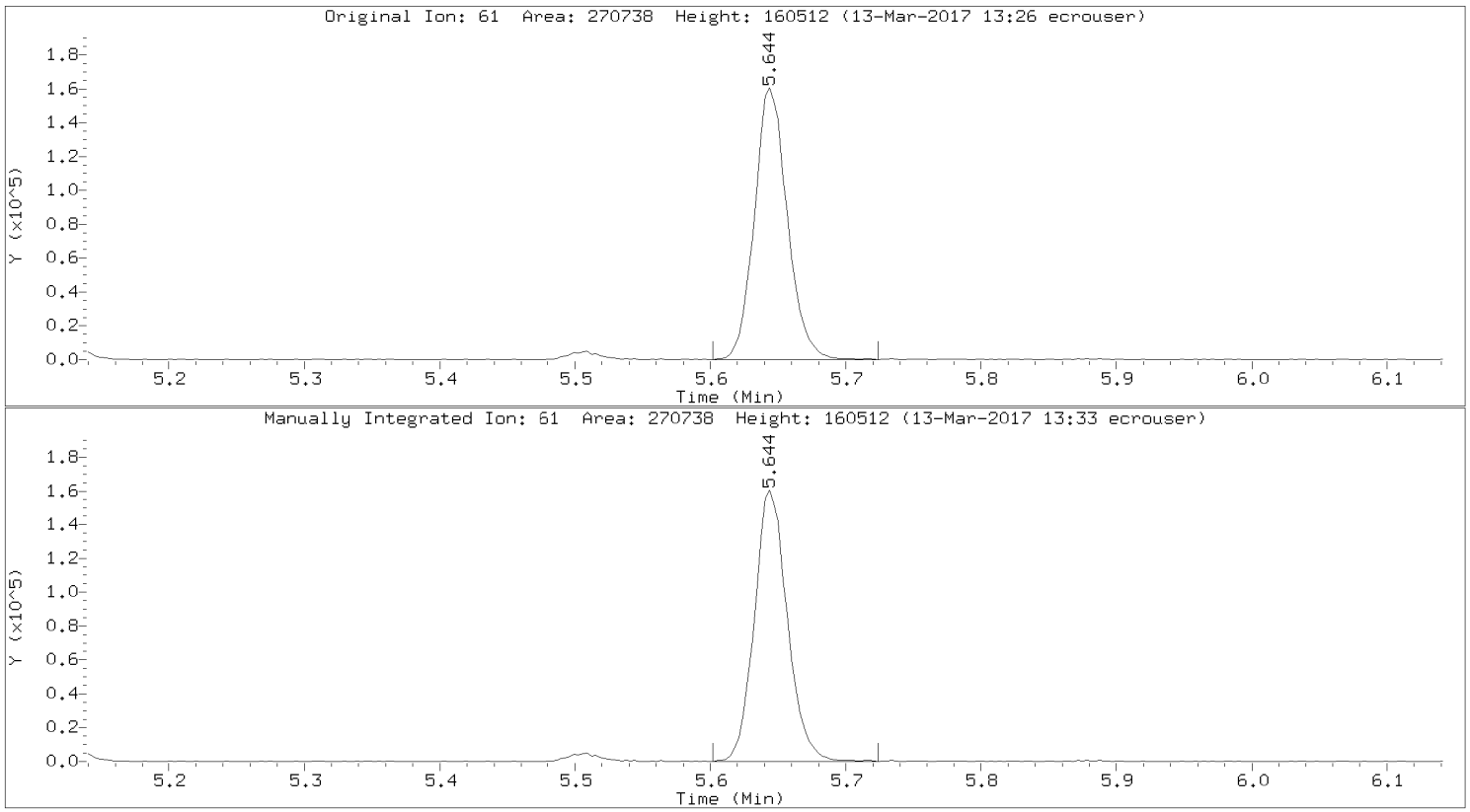






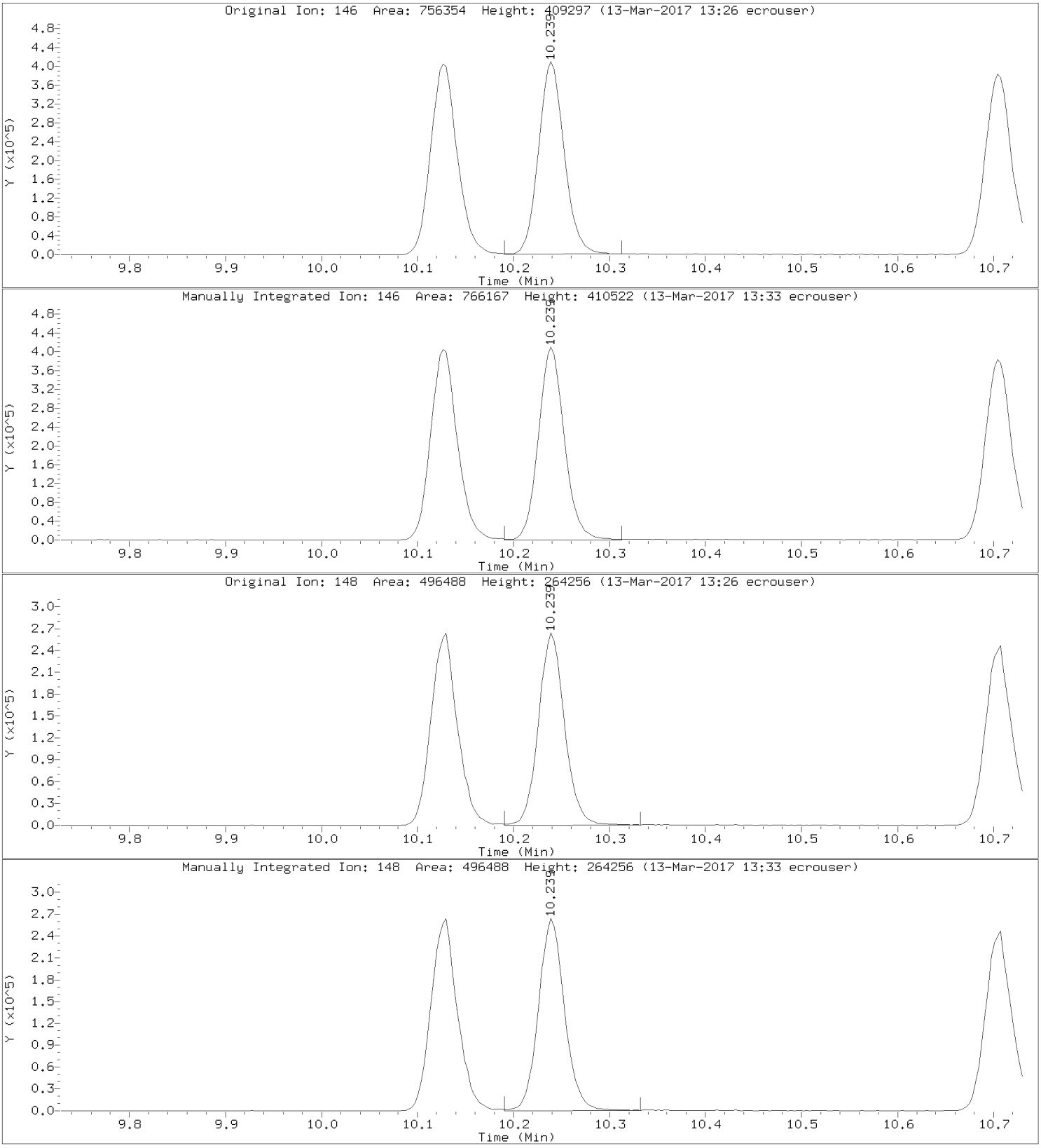


Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

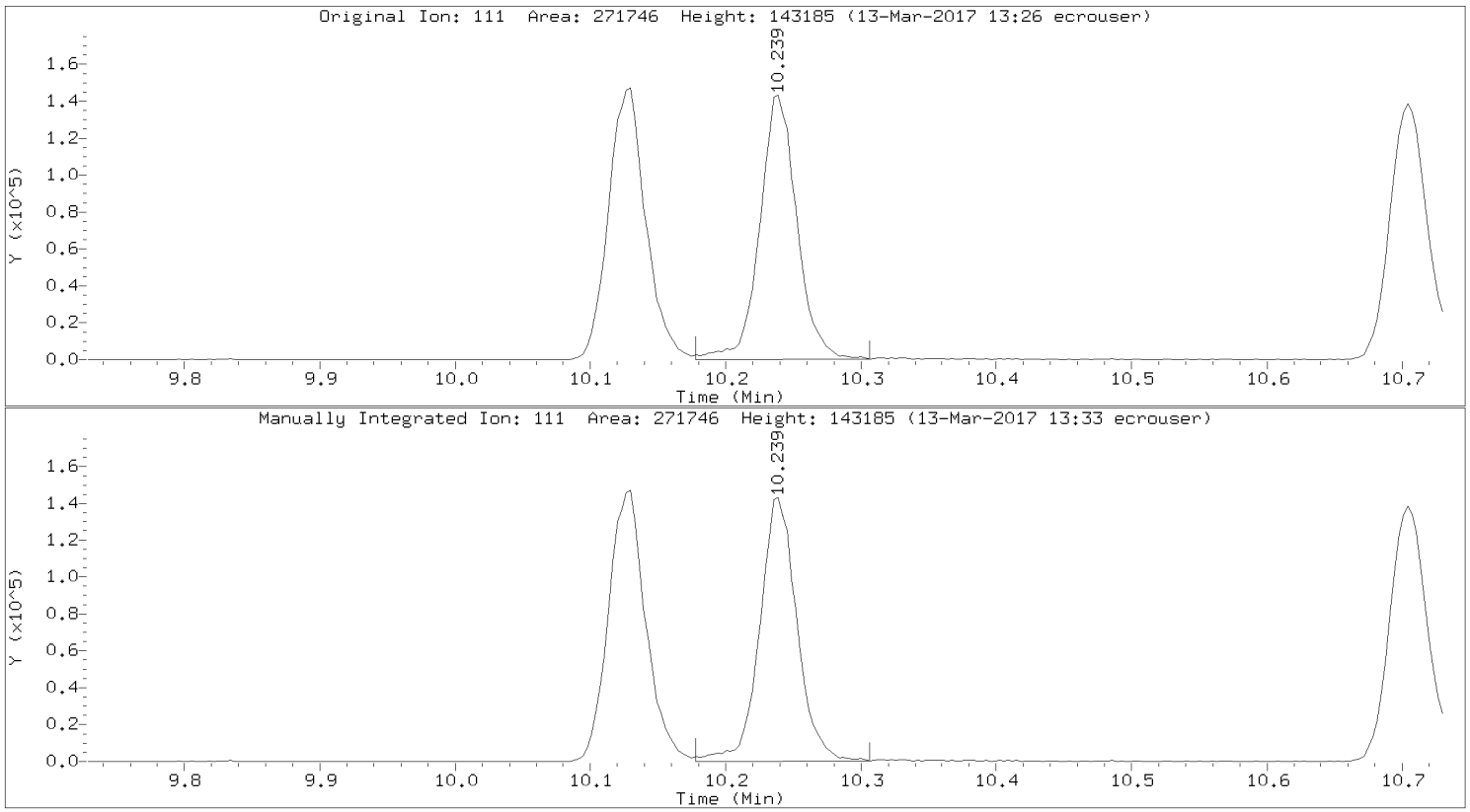


Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

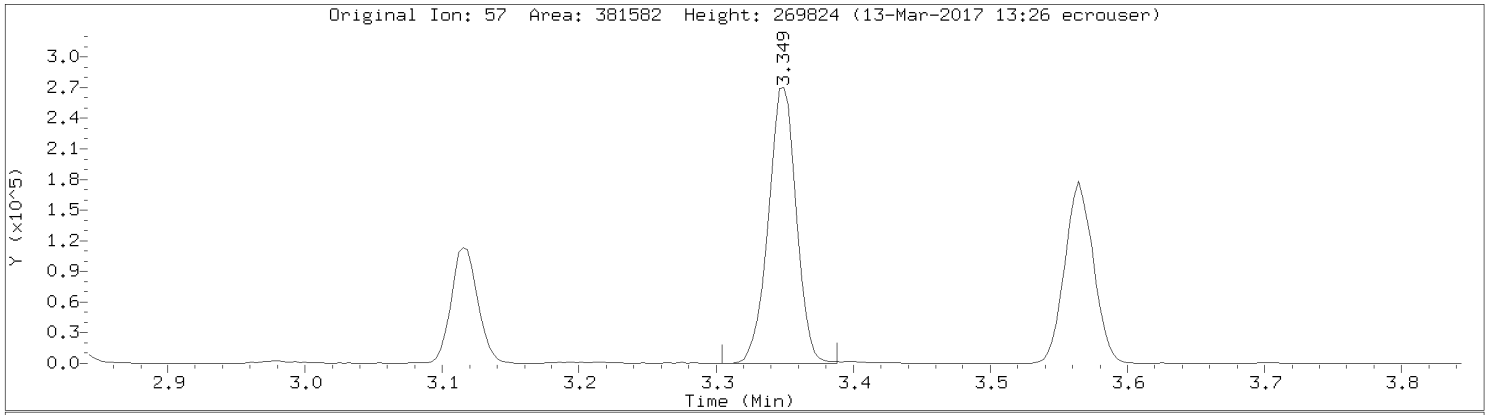


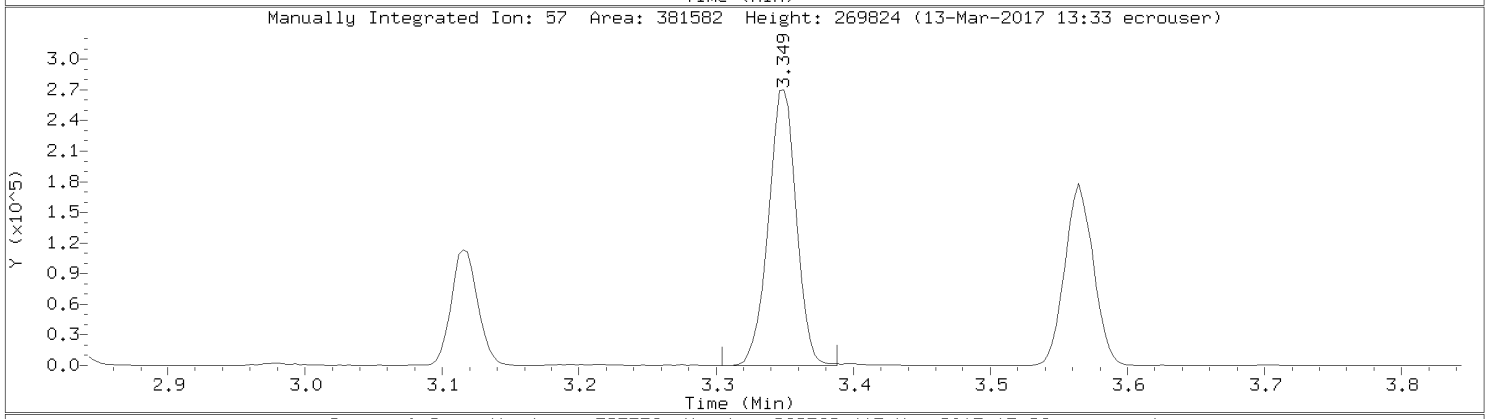
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

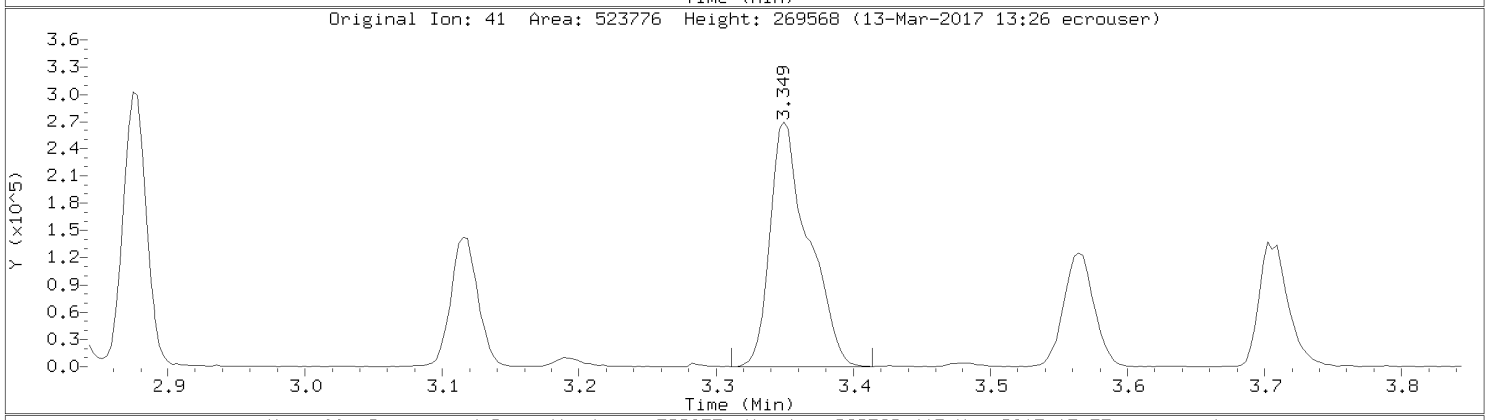


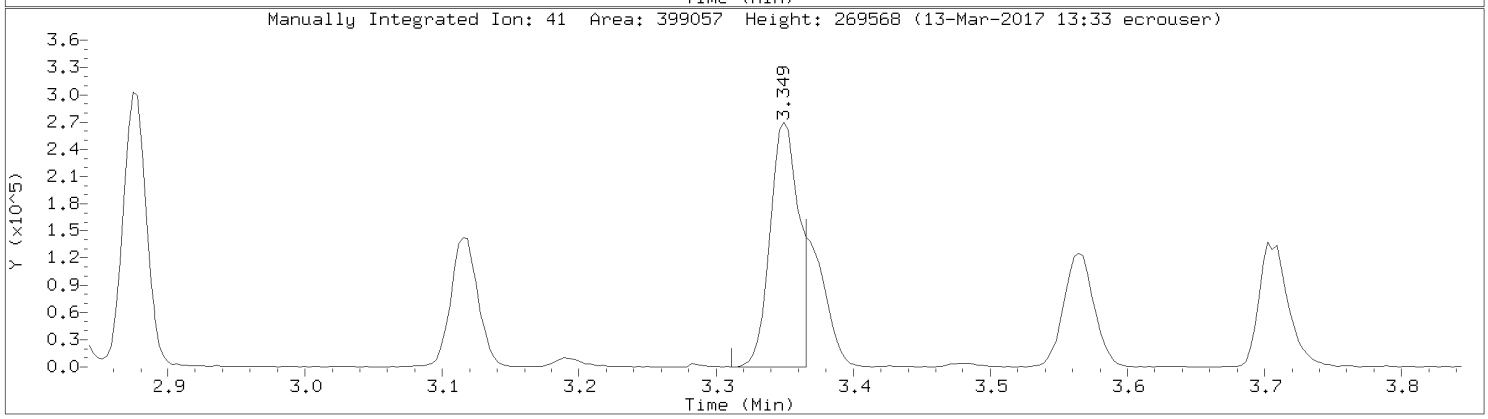
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: n-Hexane
CAS Number: 110-54-3

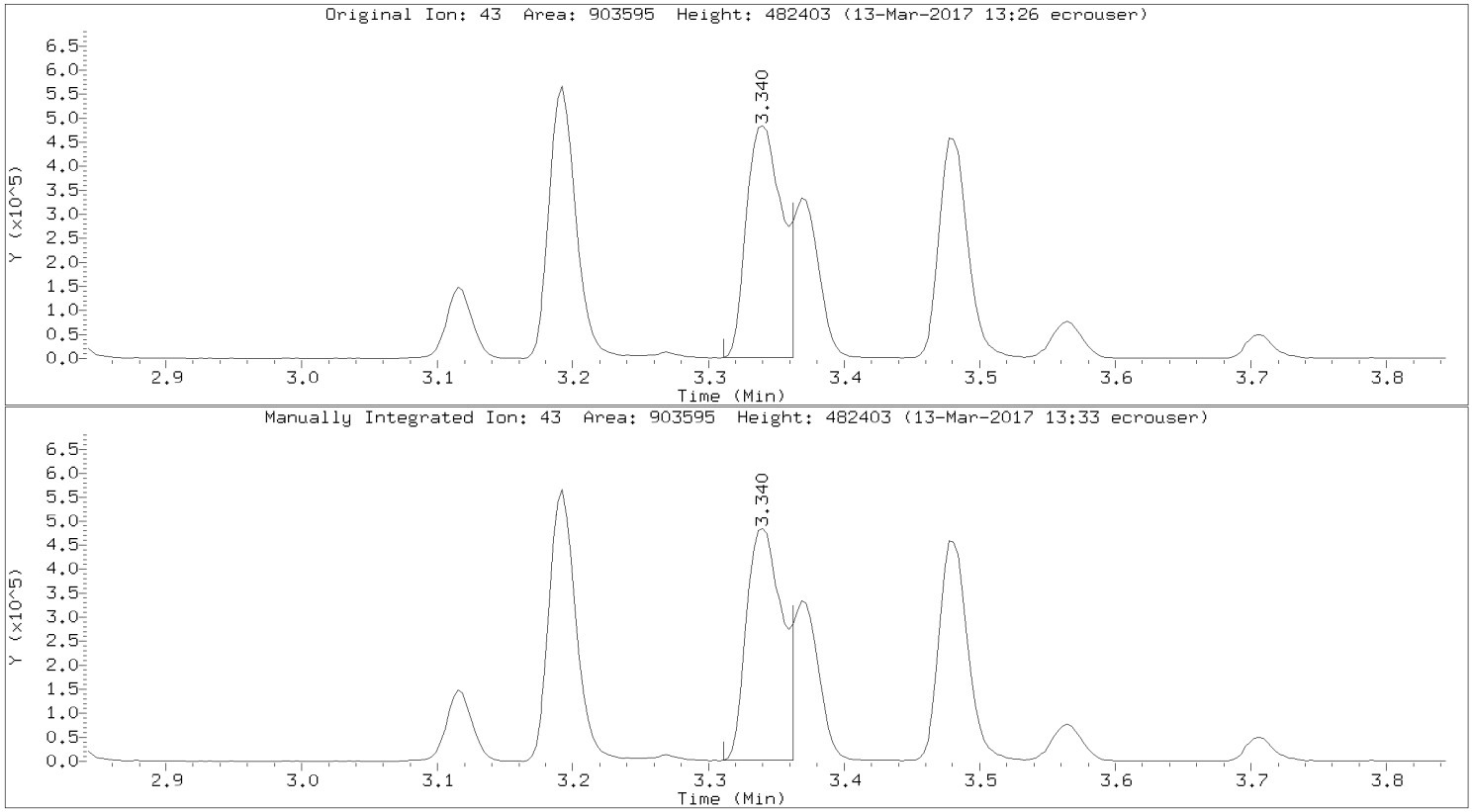






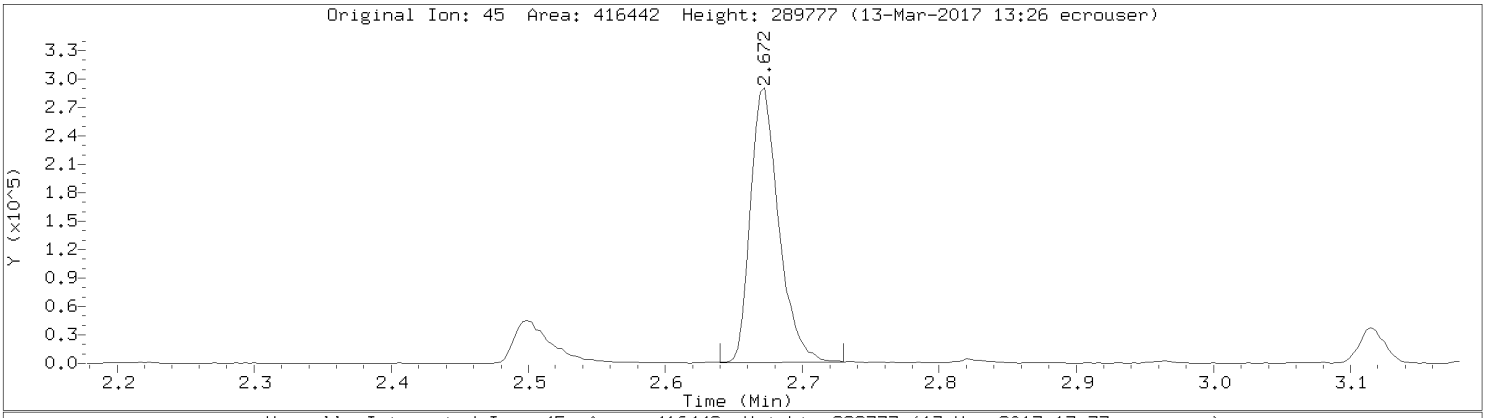


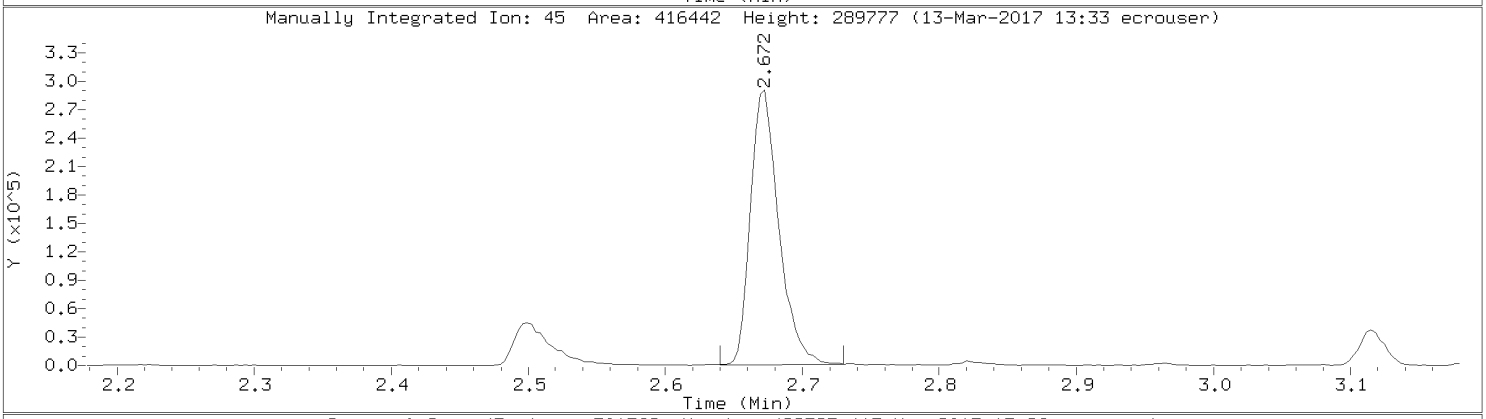
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

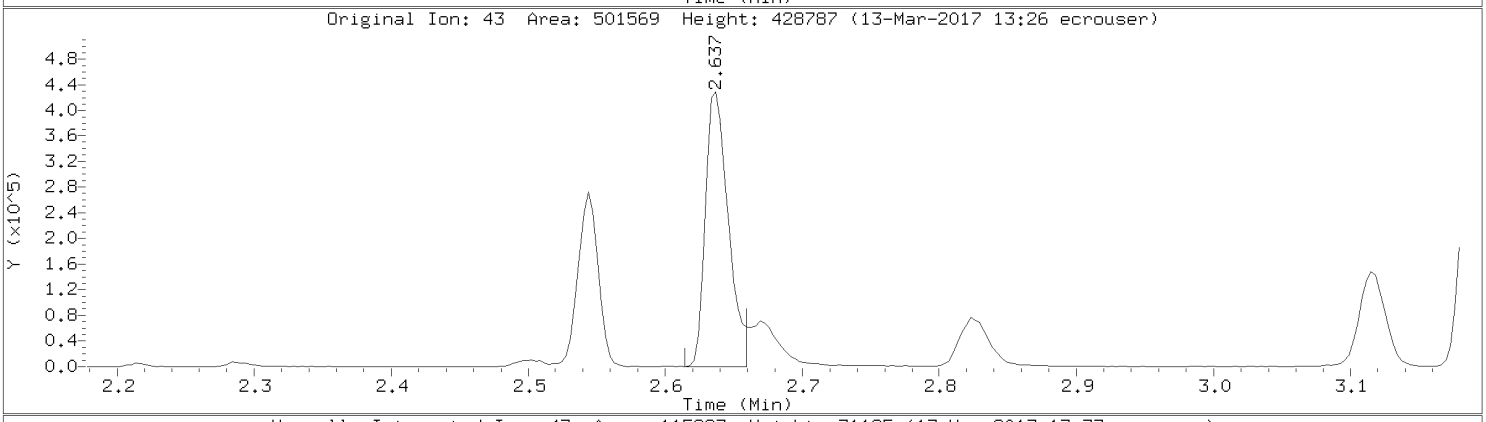


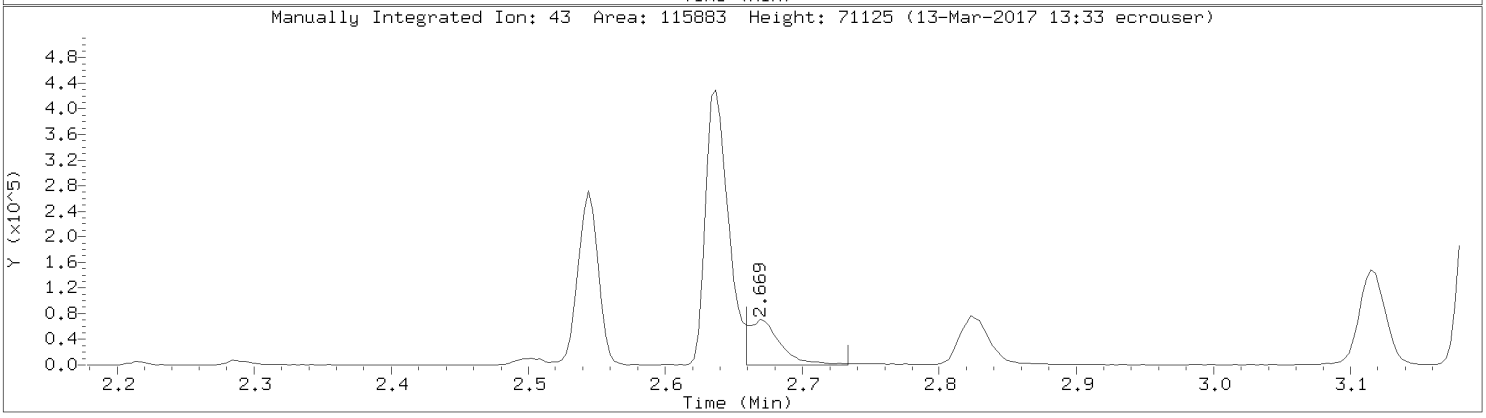
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



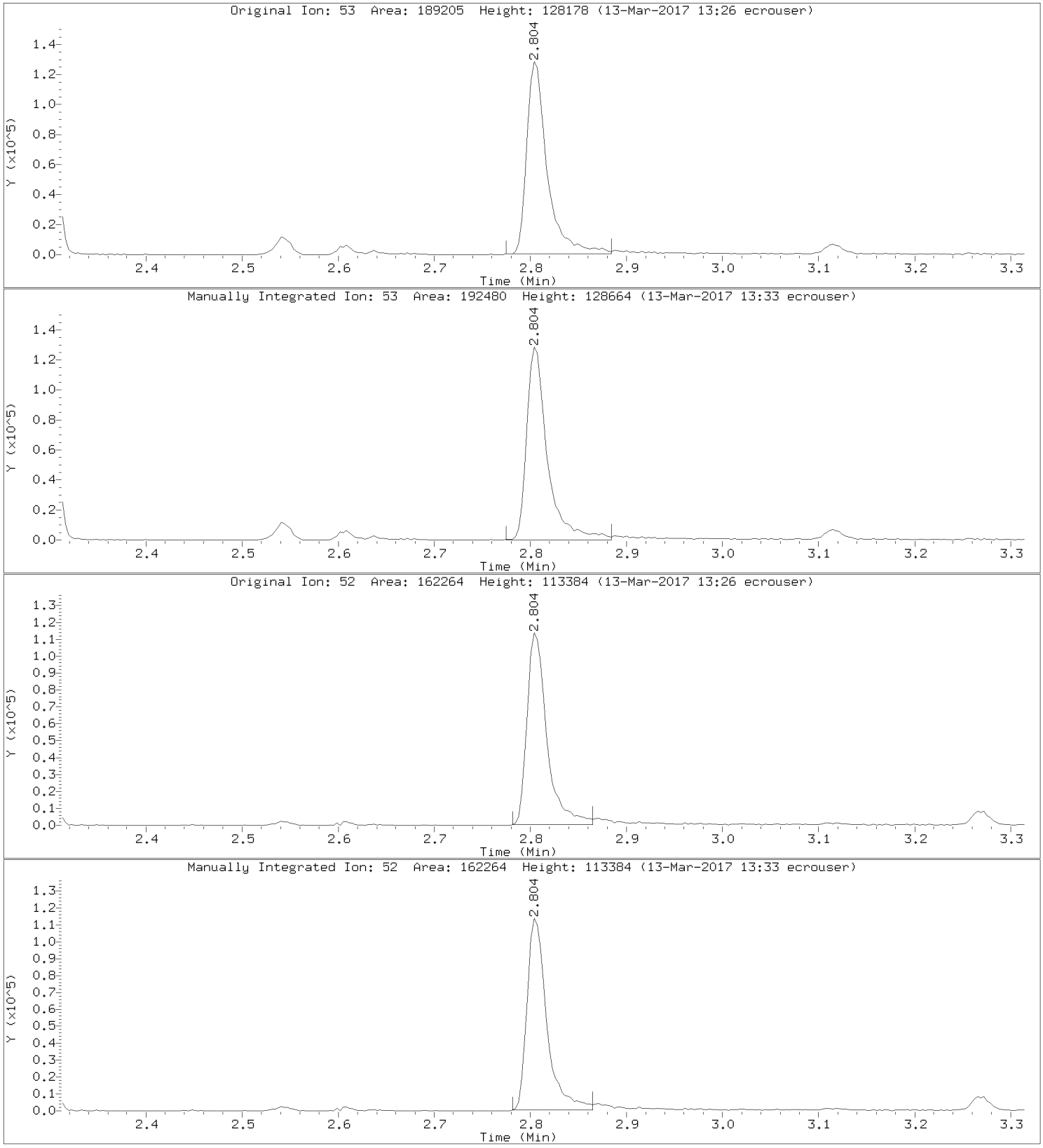






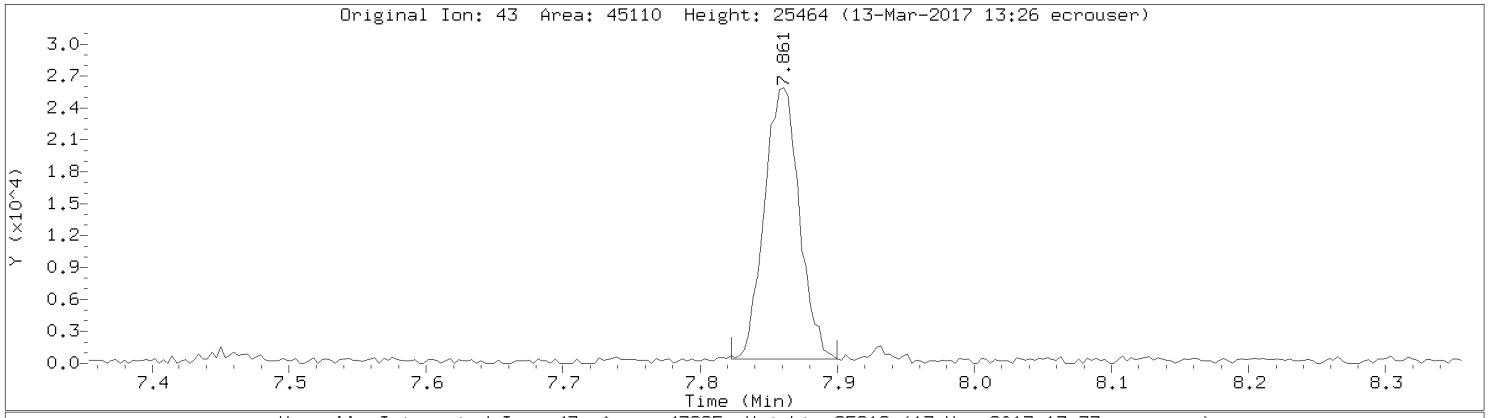
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

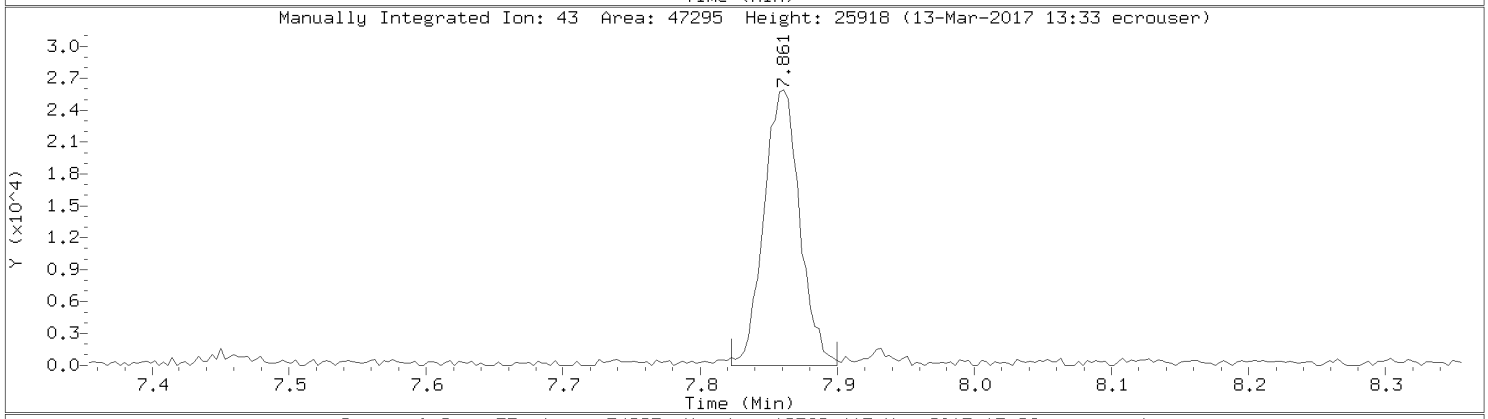
Compound: Acrylonitrile
CAS Number: 107-13-1

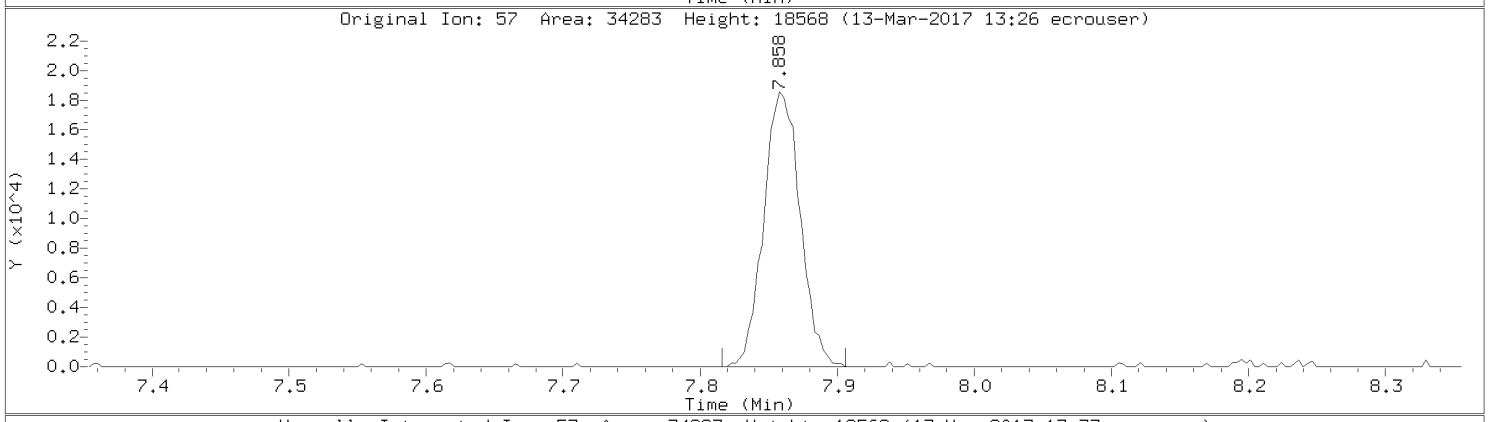


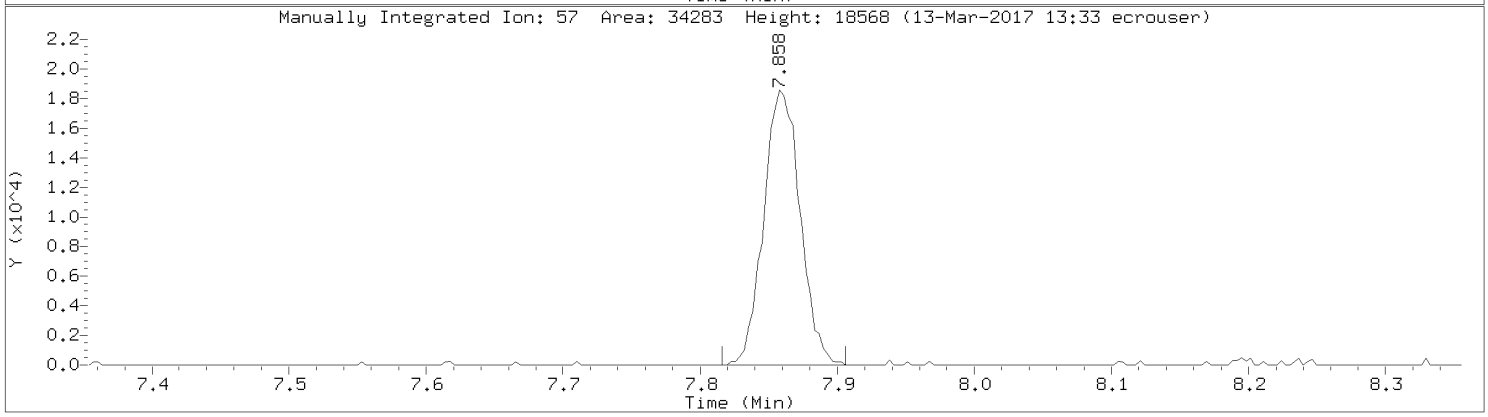
Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: n-Nonane
CAS Number: 111-84-2

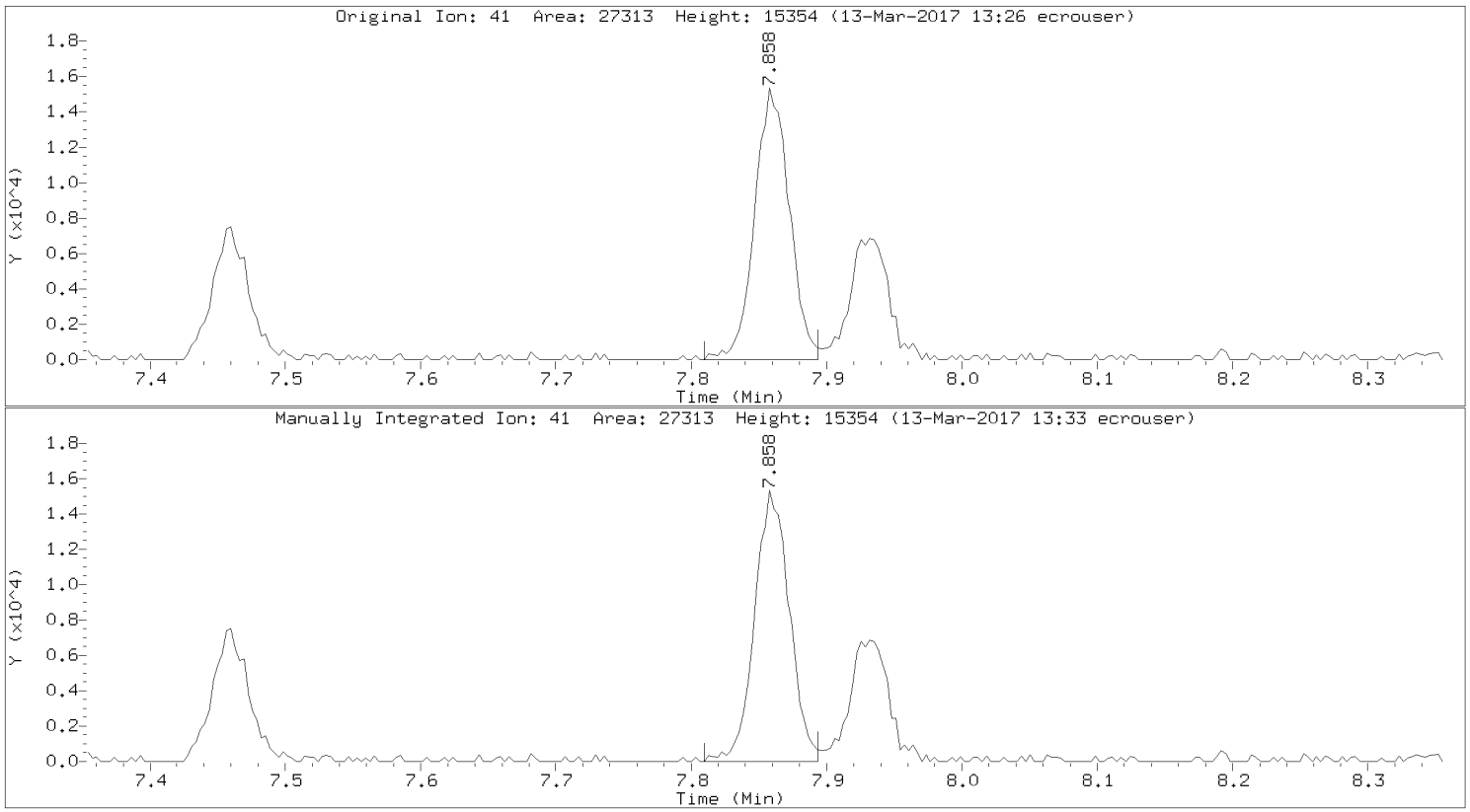








Data File: \\192.168.10.12\chem\10airD.i\031317.b/07213.d
Injection Date: 13-MAR-2017 13:11
Instrument: 10airD.i
Lab Sample ID: ICV



Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 10-MAR-2017 14:46
Lab File ID: 06902.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	16.47578	0.02807	0.010	64.75784	30.00000	Line		<-
	2 1,1-Difluoroethane	0.04870	0.04984	0.04984	0.010	2.34346	30.00000	Aver		
	3 Chlorodifluoromethane	0.02414	0.02624	0.02624	0.010	8.70709	30.00000	Aver		
	4 Propylene	0.17404	0.20979	0.20979	0.010	20.53852	30.00000	Aver		
	5 Dichlorodifluoromethane	0.21985	0.23888	0.23888	0.010	8.65561	30.00000	Aver		
	6 Dichlorotetrafluoroethane	0.22303	0.23570	0.23570	0.010	5.67938	30.00000	Aver		
	7 Chloromethane	0.10311	0.10615	0.10615	0.010	2.95030	30.00000	Aver		
	8 Vinyl chloride	0.08004	0.08258	0.08258	0.010	3.16725	30.00000	Aver		
	9 1,3-Butadiene	0.05565	0.05840	0.05840	0.010	4.93340	30.00000	Aver		
	10 Bromomethane	0.08641	0.09006	0.09006	0.010	4.23332	30.00000	Aver		
	11 Chloroethane	0.03032	0.03255	0.03255	0.010	7.38535	30.00000	Aver		
	12 Ethanol	0.01535	0.02173	0.02173	0.005	41.55202	30.00000	Aver		<-
	13 Vinyl Bromide	0.08099	0.08811	0.08811	0.010	8.79021	30.00000	Aver		
	14 Isopentane	0.09580	0.09295	0.09295	0.010	-2.98053	30.00000	Aver		
	15 Freon 123	0.20267	0.21161	0.21161	0.010	4.41141	30.00000	Aver		
	16 Trichlorofluoromethane	0.23000	0.24239	0.24239	0.010	5.38874	30.00000	Aver		
	17 Acrolein	25.00000	25.44339	0.02520	0.010	1.77355	30.00000	Quad		
	18 Acetone	50.00000	56.02546	0.11562	0.010	12.05092	30.00000	Quad		
	19 Isopropyl Alcohol	0.07790	0.10076	0.10076	0.010	29.35116	30.00000	Aver		
	20 1,1-Dichloroethene	0.13698	0.14322	0.14322	0.010	4.55958	30.00000	Aver		
	21 Acrylonitrile	0.04898	0.05502	0.05502	0.010	12.32372	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.10598	0.14997	0.14997	0.010	41.51250	30.00000	Aver		<-
	22 Freon 113	0.18032	0.18908	0.18908	0.010	4.85945	30.00000	Aver		
	23 Methyl Acetate	0.19043	0.22076	0.22076	0.010	15.92661	30.00000	Aver		
	25 Methylene chloride	50.00000	53.82118	0.09480	0.010	7.64236	30.00000	Quad		
	26 Allyl Chloride	0.02168	0.02576	0.02576	0.010	18.77664	30.00000	Aver		
	27 Carbon Disulfide	0.19415	0.20505	0.20505	0.010	5.61137	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.06513	0.07359	0.07359	0.010	12.97598	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.17114	0.18909	0.18909	0.010	10.48889	30.00000	Aver		
	30 Vinyl Acetate	10.00000	10.58681	0.23859	0.010	5.86808	30.00000	Quad		
	31 1,1-Dichloroethane	0.14799	0.15426	0.15426	0.010	4.23862	30.00000	Aver		
$	32 Hexane-d14(S)	0.53088	0.52245	0.52245	0.010	-1.58815	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.03179	0.03374	0.03374	0.010	6.12289	30.00000	Aver		
	34 n-Hexane	0.11495	0.11734	0.11734	0.010	2.07563	30.00000	Aver		
	35 Di-isopropyl Ether	0.27870	0.29302	0.29302	0.010	5.13838	30.00000	Aver		
	36 cis-1,2-Dichloroethene	0.07378	0.08321	0.08321	0.010	12.77789	30.00000	Aver		
	37 Ethyl Acetate	0.18393	0.20216	0.20216	0.010	9.91096	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	25.00000	27.72681	0.23178	0.010	10.90725	30.00000	Quad		
	39 Chloroform	0.18632	0.20377	0.20377	0.010	9.36703	30.00000	Aver		
	40 Tetrahydrofuran	0.09282	0.09680	0.09680	0.010	4.28227	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.18743	0.20513	0.20513	0.010	9.44445	30.00000	Aver		
	42 1,2-Dichloroethane	0.13614	0.14514	0.14514	0.010	6.61661	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 10-MAR-2017 14:46
Lab File ID: 06902.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.22006	0.23261	0.23261	0.010	5.70486	30.00000	Aver		
	45 Carbon tetrachloride	0.17641	0.20802	0.20802	0.010	17.91670	30.00000	Aver		
	44 Cyclohexane	0.11361	0.11094	0.11094	0.010	-2.34570	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	10.42863	0.24308	0.010	4.28626	30.00000	Quad		
	48 2,2,4-Trimethylpentane	25.00000	28.63954	0.31846	0.010	14.55814	30.00000	Quad		
	49 Heptane	0.17179	0.17034	0.17034	0.010	-0.84533	30.00000	Aver		
	50 1,2-Dichloropropane	0.10137	0.10522	0.10522	0.010	3.79758	30.00000	Aver		
	51 Trichloroethene	0.12079	0.12537	0.12537	0.010	3.78843	30.00000	Aver		
	52 Methyl methacrylate	0.07981	0.08497	0.08497	0.010	6.45618	30.00000	Aver		
	53 Bromodichloromethane	0.20800	0.23086	0.23086	0.010	10.99055	30.00000	Aver		
	54 1,4-Dioxane	0.01662	0.02200	0.02200	0.010	32.41084	30.00000	Aver	(H)	<-
	55 Methylcyclohexane	0.04658	0.04680	0.04680	0.010	0.46293	30.00000	Aver		
	56 Methyl Isobutyl Ketone	25.00000	27.03296	0.22785	0.010	8.13184	30.00000	Quad		
	57 cis-1,3-Dichloropropene	0.13716	0.15340	0.15340	0.010	11.84454	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	10.63650	0.13841	0.010	6.36496	30.00000	Quad		
$	59 Toluene-d8 (S)	1.00202	1.00465	1.00465	0.010	0.26277	30.00000	Aver		
	60 Toluene	0.29562	0.30962	0.30962	0.010	4.73504	30.00000	Aver		
	61 1,1,2-Trichloroethane	0.11446	0.11934	0.11934	0.010	4.26639	30.00000	Aver		
	62 Methyl Butyl Ketone	0.23865	0.26390	0.26390	0.010	10.57984	30.00000	Aver		
	63 n-Octane	0.24816	0.25475	0.25475	0.010	2.65878	30.00000	Aver		
	64 Dibromochloromethane	0.24616	0.30133	0.30133	0.010	22.40972	30.00000	Aver		
	65 1,2-Dibromoethane	0.21282	0.23524	0.23524	0.010	10.53426	30.00000	Aver		
	66 Tetrachloroethene	0.22107	0.23249	0.23249	0.010	5.16228	30.00000	Aver		
	68 Chlorobenzene	0.26931	0.29143	0.29143	0.010	8.21565	30.00000	Aver		
	69 Ethyl Benzene	0.43877	0.46307	0.46307	0.010	5.53742	30.00000	Aver		
	70 m&p-Xylene	20.00000	22.60291	0.34252	0.010	13.01457	30.00000	Quad		
	71 Bromoform	10.00000	11.07789	0.31132	0.010	10.77886	30.00000	Quad		
	72 n-Nonane	0.22897	0.25005	0.25005	0.010	9.20678	30.00000	Aver		
	73 Styrene	0.22257	0.25618	0.25618	0.010	15.10206	30.00000	Aver		
	74 o-Xylene	0.36173	0.36607	0.36607	0.010	1.19765	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.24035	0.26303	0.26303	0.010	9.43767	30.00000	Aver		
	76 Isopropylbenzene	0.44783	0.46019	0.46019	0.010	2.76154	30.00000	Aver		
	77 N-Propylbenzene	0.47101	0.53928	0.53928	0.010	14.49540	30.00000	Aver		
	78 4-Ethyltoluene	0.38527	0.43562	0.43562	0.010	13.06940	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	10.00000	11.06365	0.37234	0.010	10.63646	30.00000	Quad		
	80 n-Decane	0.16252	0.17623	0.17623	0.010	8.43445	30.00000	Aver		
	81 Tert-Butyl Benzene	0.35493	0.38234	0.38234	0.010	7.72128	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	10.00000	11.08474	0.36236	0.010	10.84741	30.00000	Quad		
	83 1,3-Dichlorobenzene	0.23428	0.25837	0.25837	0.010	10.28511	30.00000	Aver	(M)	
	84 Sec- Butylbenzene	0.44065	0.50325	0.50325	0.010	14.20694	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.61269	0.65248	0.65248	0.010	6.49410	30.00000	Aver		
	86 Benzyl Chloride	0.24404	0.27804	0.27804	0.010	13.93379	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 10-MAR-2017 14:46
Lab File ID: 06902.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.24462	0.25412	0.25412	0.010	3.88225	30.00000	Aver		
88 p-Isopropyltoluene	0.39245	0.44511	0.44511	0.010	13.41748	30.00000	Aver		
89 1,2,3-Trimethylbenzene	0.30707	0.34984	0.34984	0.010	13.92810	30.00000	Aver		
90 1,2-Dichlorobenzene	0.21704	0.23632	0.23632	0.010	8.87950	30.00000	Aver		
91 N-Butylbenzene	0.32199	0.37660	0.37660	0.010	16.95968	30.00000	Aver		
92 1,2-Dibromo-3-Chloropropane	0.04958	0.07721	0.07721	0.010	55.72743	30.00000	Aver		<-
93 1,2,4-Trichlorobenzene	0.05837	0.09068	0.09068	0.010	55.34622	30.00000	Aver		<-
94 Naphthalene	0.10479	0.16416	0.16416	0.010	56.65767	30.00000	Aver		<-
95 Hexachlorobutadiene	0.08712	0.11307	0.11307	0.010	29.78143	30.00000	Aver		

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 11.75415
Maximun Average %D/Drift = 0.000e+000
* Failed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Lab Smp Id: CCV
Inj Date : 10-MAR-2017 14:46
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.065	2.065	(0.486)	101377	10.0000	16.5
2	1,1-Difluoroethane	65	2.114	2.114	(0.498)	180003	10.0000	10.2
3	Chlorodifluoromethane	67	2.123	2.123	(0.500)	94791	10.0000	10.9
4	Propylene	41	2.130	2.130	(0.501)	757731	10.0000	12.1
5	Dichlorodifluoromethane	85	2.149	2.149	(0.506)	862820	10.0000	10.9
6	Dichlorotetrafluoroethane	85	2.216	2.216	(0.522)	851305	10.0000	10.6
7	Chloromethane	50	2.216	2.216	(0.522)	383404	10.0000	10.3
8	Vinyl chloride	62	2.274	2.274	(0.535)	298259	10.0000	10.3
9	1,3-Butadiene	54	2.303	2.303	(0.542)	210916	10.0000	10.5
10	Bromomethane	94	2.406	2.406	(0.566)	325298	10.0000	10.4
11	Chloroethane	64	2.444	2.444	(0.575)	117581	10.0000	10.7
12	Ethanol	45	2.499	2.499	(0.588)	392469	50.0000	70.8
13	Vinyl Bromide	106	2.534	2.534	(0.597)	318245	10.0000	10.9
14	Isopentane	43	2.544	2.544	(0.599)	335721	10.0000	9.70
15	Freon 123	83	2.550	2.550	(0.600)	764312	10.0000	10.4
16	Trichlorofluoromethane	101	2.605	2.605	(0.613)	875488	10.0000	10.5
17	Acrolein	56	2.608	2.608	(0.614)	227546	25.0000	25.4
18	Acetone	43	2.637	2.637	(0.621)	2088067	50.0000	56.0
19	Isopropyl Alcohol	45	2.672	2.672	(0.629)	1819724	50.0000	64.7
20	1,1-Dichloroethene	61	2.791	2.791	(0.657)	517300	10.0000	10.5
21	Acrylonitrile	53	2.807	2.807	(0.661)	496777	25.0000	28.1
24	Tert Butyl Alcohol (TBA)	59	2.829	2.829	(0.666)	1354222	25.0000	35.4
22	Freon 113	101	2.823	2.823	(0.665)	682934	10.0000	10.5
23	Methyl Acetate	43	2.832	2.832	(0.667)	797364	10.0000	11.6

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	25 Methylene chloride	49	2.871	2.871	(0.676)	1711959	50.0000	53.8
	26 Allyl Chloride	76	2.877	2.877	(0.677)	232570	25.0000	29.7
	27 Carbon Disulfide	76	2.964	2.964	(0.698)	740606	10.0000	10.6
	28 trans-1,2-dichloroethene	96	3.089	3.089	(0.727)	265785	10.0000	11.3
	29 Methyl Tert Butyl Ether	73	3.115	3.115	(0.733)	1707426	25.0000	27.6
	30 Vinyl Acetate	43	3.192	3.192	(0.751)	861745	10.0000	10.6
	31 1,1-Dichloroethane	63	3.201	3.201	(0.754)	557168	10.0000	10.4
$	32 Hexane-d14(S)	66	3.269	3.269	(0.770)	1887036	10.0000	9.84
	33 Methyl Ethyl Ketone	72	3.336	3.336	(0.785)	121869	10.0000	10.6
	34 n-Hexane	57	3.349	3.349	(0.788)	423821	10.0000	10.2
	35 Di-isopropyl Ether	45	3.371	3.371	(0.794)	1058348	10.0000	10.5
	36 cis-1,2-Dichloroethene	96	3.468	3.468	(0.816)	300532	10.0000	11.3
	37 Ethyl Acetate	43	3.477	3.477	(0.819)	730163	10.0000	11.0
	38 Ethyl Tert-Butyl Ether	59	3.564	3.564	(0.839)	2092892	25.0000	27.7
	39 Chloroform	83	3.567	3.567	(0.840)	736007	10.0000	10.9
	40 Tetrahydrofuran	42	3.705	3.705	(0.872)	349622	10.0000	10.4
	41 1,1,1-Trichloroethane	97	3.901	3.901	(0.918)	740900	10.0000	10.9
	42 1,2-Dichloroethane	62	3.911	3.911	(0.921)	524238	10.0000	10.7
	43 Benzene	78	4.106	4.106	(0.967)	840168	10.0000	10.6
	45 Carbon tetrachloride	117	4.119	4.119	(0.970)	751351	10.0000	11.8
	44 Cyclohexane	56	4.119	4.119	(0.970)	400706	10.0000	9.77
	46 Tert Amyl Methyl Ether	73	4.241	4.241	(0.998)	877975	10.0000	10.4
*	47 1,4-Difluorobenzene	114	4.247	4.247	(1.000)	3611878	10.0000	
	48 2,2,4-Trimethylpentane	57	4.373	4.373	(1.029)	2875591	25.0000	28.6
	49 Heptane	43	4.491	4.491	(1.057)	615233	10.0000	9.92
	50 1,2-Dichloropropane	63	4.556	4.556	(1.073)	380031	10.0000	10.4
	51 Trichloroethene	130	4.572	4.572	(1.076)	452822	10.0000	10.4
	52 Methyl methacrylate	69	4.652	4.652	(1.095)	306887	10.0000	10.6
	53 Bromodichloromethane	83	4.665	4.665	(1.098)	833855	10.0000	11.1
	54 1,4-Dioxane	88	4.671	4.671	(1.100)	79478	10.0000	13.2(H)
	55 Methylcyclohexane	98	4.960	4.960	(1.168)	169037	10.0000	10.0
	56 Methyl Isobutyl Ketone	43	5.091	5.091	(1.199)	2057419	25.0000	27.0
	57 cis-1,3-Dichloropropene	75	5.130	5.130	(1.208)	554069	10.0000	11.2
	58 trans-1,3-Dichloropropene	75	5.505	5.505	(1.296)	499932	10.0000	10.6
$	59 Toluene-d8 (S)	98	5.566	5.566	(1.310)	3628683	10.0000	10.0
	60 Toluene	91	5.634	5.634	(1.326)	1118301	10.0000	10.5
	61 1,1,2-Trichloroethane	97	5.643	5.643	(1.329)	431059	10.0000	10.4
	62 Methyl Butyl Ketone	43	5.881	5.881	(0.836)	2002326	25.0000	27.6
	63 n-Octane	43	6.054	6.054	(0.861)	773182	10.0000	10.3
	64 Dibromochloromethane	129	6.125	6.125	(0.871)	914534	10.0000	12.2
	65 1,2-Dibromoethane	107	6.336	6.336	(0.901)	713965	10.0000	11.1
	66 Tetrachloroethene	166	6.407	6.407	(0.911)	705599	10.0000	10.5
*	67 Chlorobenzene - d5	117	7.033	7.033	(1.000)	3035016	10.0000	
	68 Chlorobenzene	112	7.071	7.071	(1.005)	884509	10.0000	10.8
	69 Ethyl Benzene	91	7.318	7.318	(1.041)	1405413	10.0000	10.6
	70 m&p-Xylene	91	7.460	7.460	(1.061)	2079117	20.0000	22.6
	71 Bromoform	173	7.825	7.825	(1.113)	944869	10.0000	11.1
	72 n-Nonane	43	7.861	7.861	(1.118)	758906	10.0000	10.9
	73 Styrene	104	7.867	7.867	(1.119)	777509	10.0000	11.5
	74 o-Xylene	91	7.931	7.931	(1.128)	1111018	10.0000	10.1
	75 1,1,2,2-Tetrachloroethane	83	8.194	8.194	(1.165)	798305	10.0000	10.9
	76 Isopropylbenzene	105	8.499	8.499	(1.208)	1396696	10.0000	10.3
	77 N-Propylbenzene	91	9.058	9.058	(1.288)	1636728	10.0000	11.4
	78 4-Ethyltoluene	105	9.228	9.228	(1.312)	1322113	10.0000	11.3

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
79	1,3,5-Trimethylbenzene	105	9.321	9.321	(1.325)	1130060	10.0000	11.1
80	n-Decane	57	9.725	9.725	(2.289)	636509	10.0000	10.8
81	Tert-Butyl Benzene	119	9.809	9.809	(1.395)	1160408	10.0000	10.8
82	1,2,4-Trimethylbenzene	105	9.828	9.828	(1.397)	1099760	10.0000	11.1
83	1,3-Dichlorobenzene	146	10.126	10.126	(1.440)	784167	10.0000	11.0(M)
84	Sec- Butylbenzene	105	10.152	10.152	(1.443)	1527370	10.0000	11.4
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.197	10.197	(1.450)	1980274	10.0000	10.6
86	Benzyl Chloride	91	10.219	10.219	(1.453)	843856	10.0000	11.4
87	1,4-Dichlorobenzene	146	10.235	10.235	(1.455)	771247	10.0000	10.4
88	p-Isopropyltoluene	119	10.377	10.377	(1.475)	1350912	10.0000	11.3
89	1,2,3-Trimethylbenzene	105	10.415	10.415	(1.481)	1061774	10.0000	11.4
90	1,2-Dichlorobenzene	146	10.701	10.701	(1.521)	717221	10.0000	10.9
91	N-Butylbenzene	91	10.967	10.967	(1.559)	1142996	10.0000	11.7
92	1,2-Dibromo-3-Chloropropane	157	11.525	11.525	(1.639)	234337	10.0000	15.6
93	1,2,4-Trichlorobenzene	180	12.835	12.835	(1.825)	275207	10.0000	15.5
94	Naphthalene	128	12.953	12.953	(1.842)	498232	10.0000	15.7
95	Hexachlorobutadiene	225	13.213	13.213	(1.879)	343156	10.0000	13.0

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06902.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

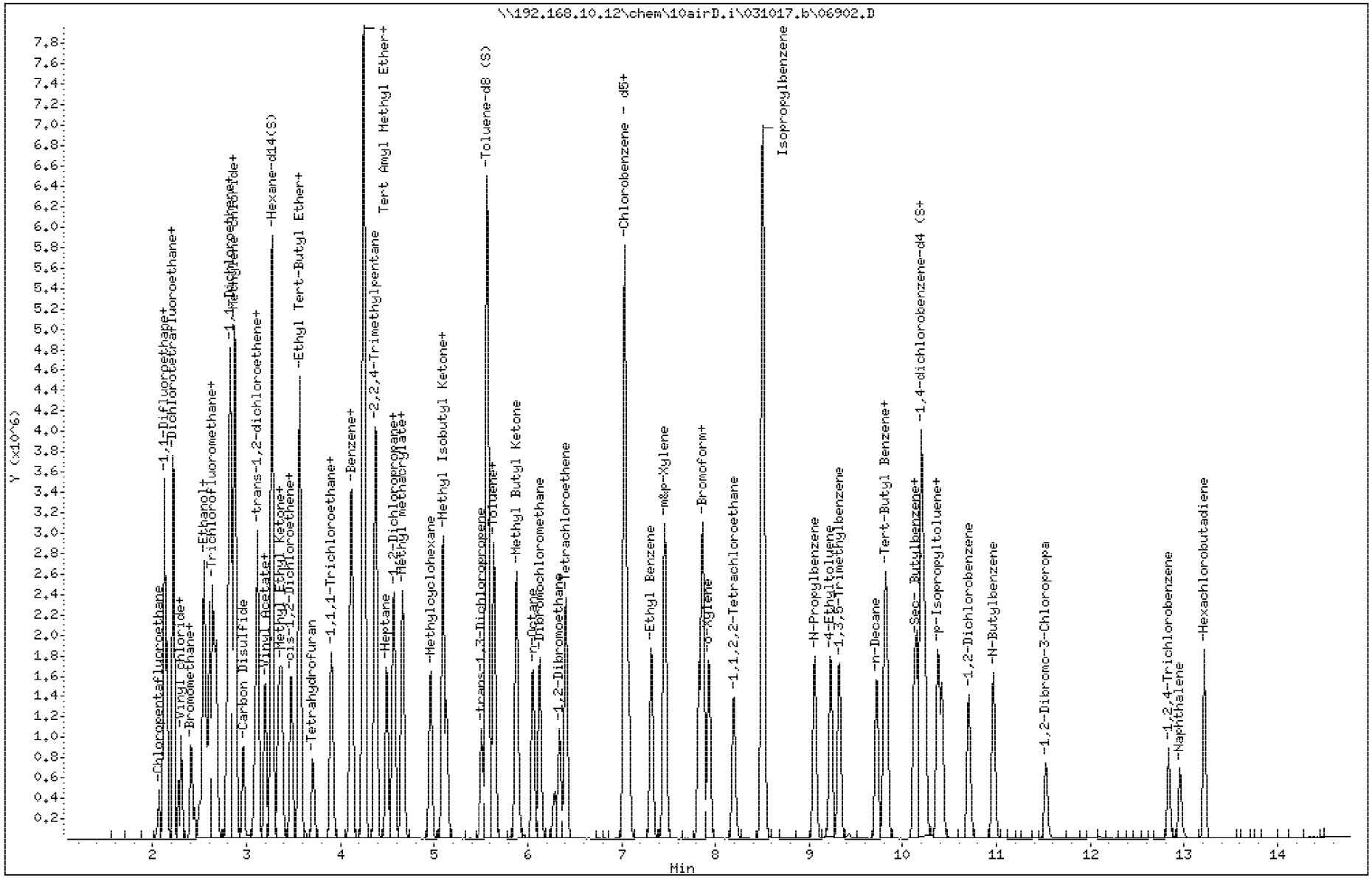
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3611878	-4.64
67 Chlorobenzene - d	3280875	1968525	4593225	3035016	-7.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	-0.00
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

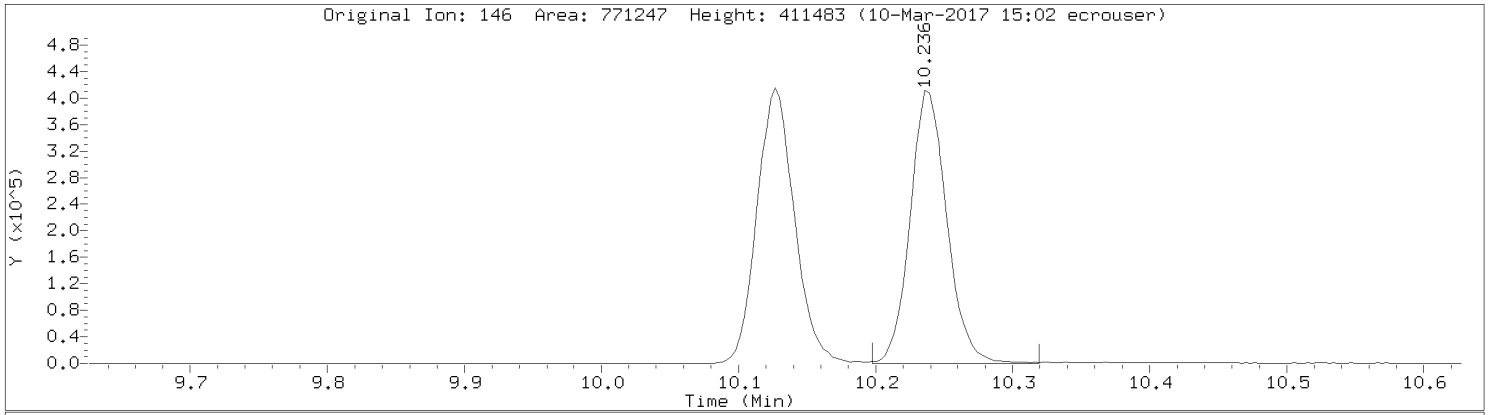
Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.D
Date : 10-MAR-2017 14:46
Client ID:
Sample Info:

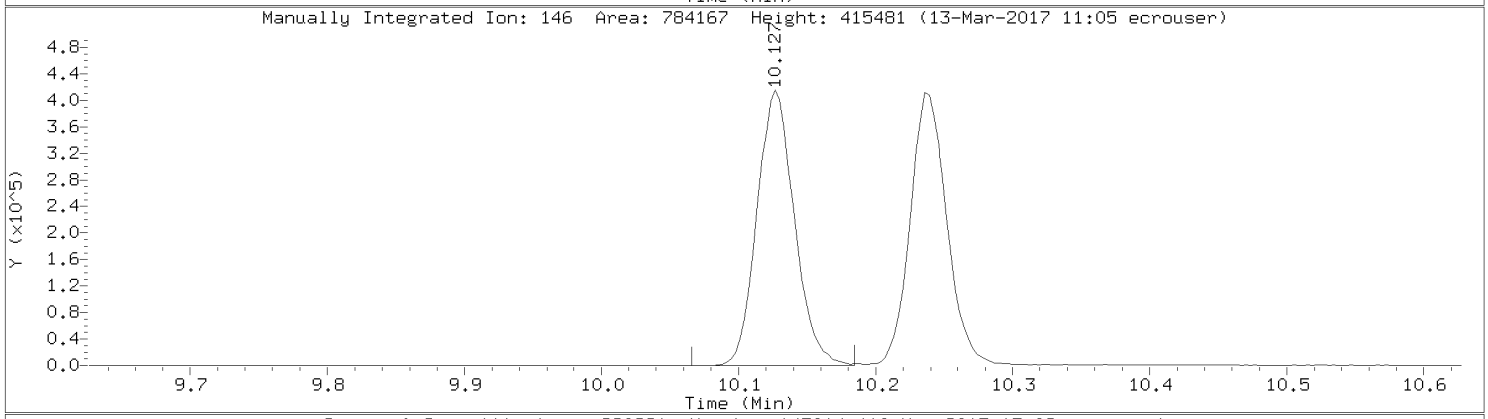
Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

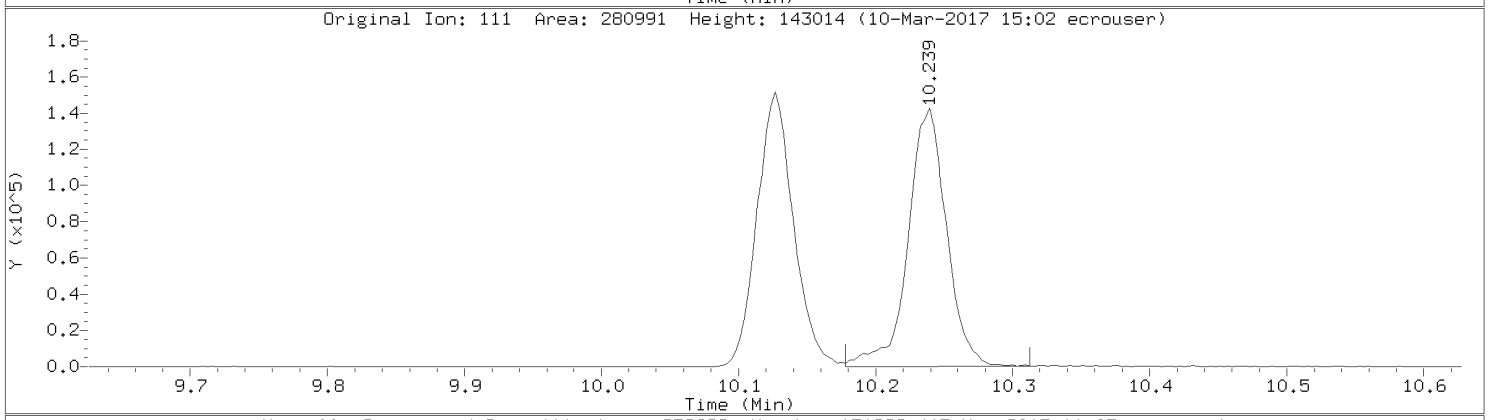


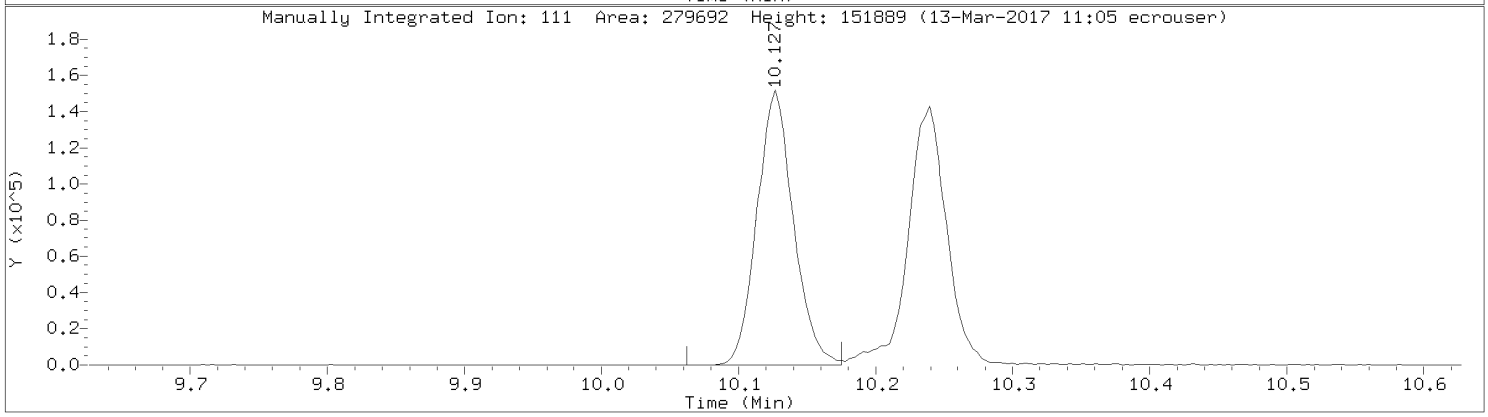
Data File: \\192.168.10.12\chem\10airD.i\031017.b/06902.d
Injection Date: 10-MAR-2017 14:46
Instrument: 10airD.i
Lab Sample ID: CCV

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

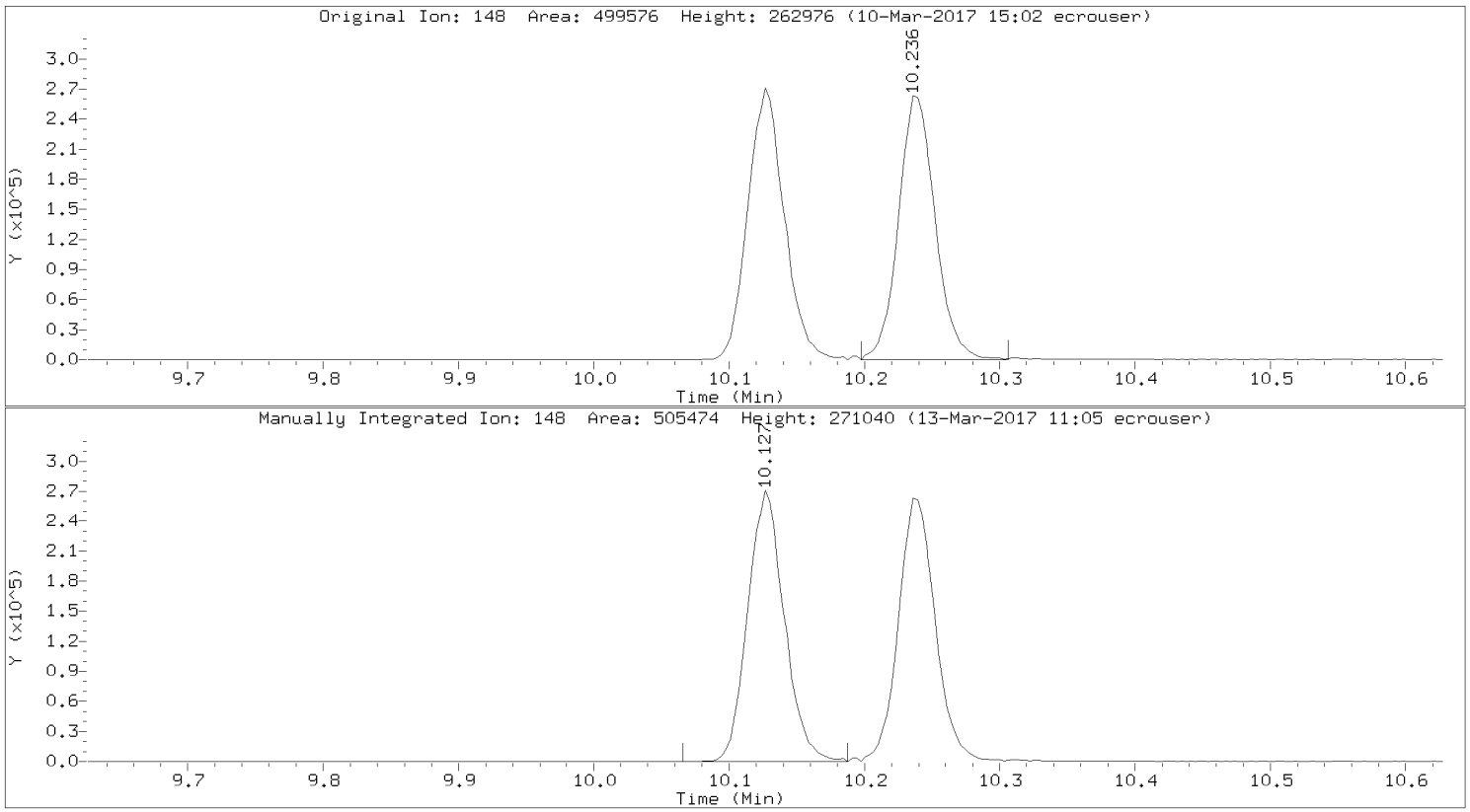








Data File: \\192.168.10.12\chem\10airD.i\031017.b/06902.d
Injection Date: 10-MAR-2017 14:46
Instrument: 10airD.i
Lab Sample ID: CCV



Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 11-MAR-2017 10:37
Lab File ID: 07002.D Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	5.96962	0.01018	0.010	-40.30381	30.00000	Line		<-
	2 1,1-Difluoroethane	0.04870	0.05361	0.05361	0.010	10.09144	30.00000	Aver		
	3 Chlorodifluoromethane	0.02414	0.02882	0.02882	0.010	19.37791	30.00000	Aver		
	4 Propylene	0.17404	0.22252	0.22252	0.010	27.85645	30.00000	Aver		
	5 Dichlorodifluoromethane	0.21985	0.26717	0.26717	0.010	21.52026	30.00000	Aver		
	6 Dichlorotetrafluoroethane	0.22303	0.26001	0.26001	0.010	16.58069	30.00000	Aver		
	7 Chloromethane	0.10311	0.11362	0.11362	0.010	10.19463	30.00000	Aver		
	8 Vinyl chloride	0.08004	0.08774	0.08774	0.010	9.61286	30.00000	Aver		
	9 1,3-Butadiene	0.05565	0.06278	0.06278	0.010	12.80817	30.00000	Aver		
	10 Bromomethane	0.08641	0.09816	0.09816	0.010	13.60901	30.00000	Aver		
	11 Chloroethane	0.03032	0.03543	0.03543	0.010	16.85666	30.00000	Aver		
	12 Ethanol	0.01535	0.02019	0.02019	0.005	31.52003	30.00000	Aver	(H)	<-
	13 Vinyl Bromide	0.08099	0.09575	0.09575	0.010	18.22318	30.00000	Aver		
	14 Isopentane	0.09580	0.10114	0.10114	0.010	5.57122	30.00000	Aver	(H)	
	15 Freon 123	0.20267	0.23125	0.23125	0.010	14.10120	30.00000	Aver		
	16 Trichlorofluoromethane	0.23000	0.27445	0.27445	0.010	19.32767	30.00000	Aver	(H)	
	17 Acrolein	25.00000	28.37430	0.02810	0.010	13.49718	30.00000	Quad		
	18 Acetone	50.00000	64.52064	0.12899	0.010	29.04127	30.00000	Quad		
	19 Isopropyl Alcohol	0.07790	0.09501	0.09501	0.010	21.96990	30.00000	Aver	(H)	
	20 1,1-Dichloroethene	0.13698	0.15784	0.15784	0.010	15.23280	30.00000	Aver		
	21 Acrylonitrile	0.04898	0.06211	0.06211	0.010	26.80789	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.10598	0.15145	0.15145	0.010	42.90121	30.00000	Aver	(H)	<-
	22 Freon 113	0.18032	0.20890	0.20890	0.010	15.85126	30.00000	Aver		
	23 Methyl Acetate	0.19043	0.23915	0.23915	0.010	25.58517	30.00000	Aver		
	25 Methylene chloride	50.00000	61.38723	0.10557	0.010	22.77446	30.00000	Quad	(H)	
	26 Allyl Chloride	0.02168	0.02914	0.02914	0.010	34.38896	30.00000	Aver	(H)	<-
	27 Carbon Disulfide	0.19415	0.22599	0.22599	0.010	16.39881	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.06513	0.08059	0.08059	0.010	23.72166	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.17114	0.20095	0.20095	0.010	17.41719	30.00000	Aver		
	30 Vinyl Acetate	10.00000	11.59507	0.26016	0.010	15.95073	30.00000	Quad		
	31 1,1-Dichloroethane	0.14799	0.16914	0.16914	0.010	14.29365	30.00000	Aver		
$	32 Hexane-d14(S)	0.53088	0.51403	0.51403	0.010	-3.17450	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.03179	0.03648	0.03648	0.010	14.74566	30.00000	Aver	(H)	
	34 n-Hexane	0.11495	0.12768	0.12768	0.010	11.07269	30.00000	Aver		
	35 Di-isopropyl Ether	0.27870	0.31232	0.31232	0.010	12.06340	30.00000	Aver		
	36 cis-1,2-Dichloroethene	0.07378	0.08954	0.08954	0.010	21.36754	30.00000	Aver		
	37 Ethyl Acetate	0.18393	0.21938	0.21938	0.010	19.27489	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	25.00000	29.93605	0.24642	0.010	19.74419	30.00000	Quad		
	39 Chloroform	0.18632	0.22513	0.22513	0.010	20.82802	30.00000	Aver		
	40 Tetrahydrofuran	0.09282	0.10471	0.10471	0.010	12.80630	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.18743	0.22861	0.22861	0.010	21.97121	30.00000	Aver		
	42 1,2-Dichloroethane	0.13614	0.16301	0.16301	0.010	19.74119	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 11-MAR-2017 10:37
Lab File ID: 07002.D Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.22006	0.25393	0.25393	0.010	15.39020	30.00000	Aver		
	45 Carbon tetrachloride	0.17641	0.23440	0.23440	0.010	32.86811	30.00000	Aver		<-
	44 Cyclohexane	0.11361	0.12176	0.12176	0.010	7.17415	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.36007	0.26221	0.010	13.60066	30.00000	Quad		
	48 2,2,4-Trimethylpentane	25.00000	30.09962	0.33066	0.010	20.39846	30.00000	Quad		
	49 Heptane	0.17179	0.18071	0.18071	0.010	5.19310	30.00000	Aver		
	50 1,2-Dichloropropane	0.10137	0.11234	0.11234	0.010	10.81971	30.00000	Aver		
	51 Trichloroethene	0.12079	0.14218	0.14218	0.010	17.70356	30.00000	Aver		
	52 Methyl methacrylate	0.07981	0.09148	0.09148	0.010	14.62313	30.00000	Aver		
	53 Bromodichloromethane	0.20800	0.25822	0.25822	0.010	24.14013	30.00000	Aver		
	54 1,4-Dioxane	0.01662	0.01867	0.01867	0.010	12.33095	30.00000	Aver		
	55 Methylcyclohexane	0.04658	0.05009	0.05009	0.010	7.52408	30.00000	Aver		
	56 Methyl Isobutyl Ketone	25.00000	28.81954	0.24026	0.010	15.27815	30.00000	Quad		
	57 cis-1,3-Dichloropropene	0.13716	0.16359	0.16359	0.010	19.27344	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	11.63877	0.15181	0.010	16.38770	30.00000	Quad		
$	59 Toluene-d8 (S)	1.00202	0.98668	0.98668	0.010	-1.53129	30.00000	Aver		
	60 Toluene	0.29562	0.32715	0.32715	0.010	10.66501	30.00000	Aver		
	61 1,1,2-Trichloroethane	0.11446	0.12708	0.12708	0.010	11.01992	30.00000	Aver		
	62 Methyl Butyl Ketone	0.23865	0.28858	0.28858	0.010	20.92425	30.00000	Aver		
	63 n-Octane	0.24816	0.27685	0.27685	0.010	11.56426	30.00000	Aver		
	64 Dibromochloromethane	0.24616	0.33152	0.33152	0.010	34.67556	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.21282	0.26351	0.26351	0.010	23.81479	30.00000	Aver		
	66 Tetrachloroethene	0.22107	0.26326	0.26326	0.010	19.08247	30.00000	Aver		
	68 Chlorobenzene	0.26931	0.31638	0.31638	0.010	17.47820	30.00000	Aver		
	69 Ethyl Benzene	0.43877	0.50244	0.50244	0.010	14.51173	30.00000	Aver		
	70 m&p-Xylene	20.00000	25.08373	0.37355	0.010	25.41866	30.00000	Quad		
	71 Bromoform	10.00000	12.26234	0.34392	0.010	22.62337	30.00000	Quad		
	72 n-Nonane	0.22897	0.28217	0.28217	0.010	23.23567	30.00000	Aver		
	73 Styrene	0.22257	0.28676	0.28676	0.010	28.84273	30.00000	Aver		
	74 o-Xylene	0.36173	0.39701	0.39701	0.010	9.75219	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.24035	0.28939	0.28939	0.010	20.40376	30.00000	Aver		
	76 Isopropylbenzene	0.44783	0.51196	0.51196	0.010	14.32098	30.00000	Aver		
	77 N-Propylbenzene	0.47101	0.58650	0.58650	0.010	24.52113	30.00000	Aver		
	78 4-Ethyltoluene	0.38527	0.48438	0.48438	0.010	25.72444	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	10.00000	12.06756	0.40390	0.010	20.67561	30.00000	Quad		
	80 n-Decane	0.16252	0.18624	0.18624	0.010	14.59443	30.00000	Aver		
	81 Tert-Butyl Benzene	0.35493	0.40599	0.40599	0.010	14.38489	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	10.00000	11.84005	0.38517	0.010	18.40047	30.00000	Quad		
	83 1,3-Dichlorobenzene	0.23428	0.27539	0.27539	0.010	17.54682	30.00000	Aver	(M)	
	84 Sec- Butylbenzene	0.44065	0.53415	0.53415	0.010	21.21887	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.61269	0.64831	0.64831	0.010	5.81371	30.00000	Aver		
	86 Benzyl Chloride	0.24404	0.29503	0.29503	0.010	20.89724	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 11-MAR-2017 10:37
Lab File ID: 07002.D Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.24462	0.26662	0.26662	0.010	8.99422	30.00000	Aver		
88 p-Isopropyltoluene	0.39245	0.47708	0.47708	0.010	21.56407	30.00000	Aver		
89 1,2,3-Trimethylbenzene	0.30707	0.36831	0.36831	0.010	19.94120	30.00000	Aver		
90 1,2-Dichlorobenzene	0.21704	0.24713	0.24713	0.010	13.86156	30.00000	Aver		
91 N-Butylbenzene	0.32199	0.40960	0.40960	0.010	27.20877	30.00000	Aver		
92 1,2-Dibromo-3-Chloropropane	0.04958	0.08475	0.08475	0.010	70.93308	30.00000	Aver		<-
93 1,2,4-Trichlorobenzene	0.05837	0.09841	0.09841	0.010	68.59269	30.00000	Aver		<-
94 Naphthalene	0.10479	0.17884	0.17884	0.010	70.66635	30.00000	Aver		<-
95 Hexachlorobutadiene	0.08712	0.12042	0.12042	0.010	38.21872	30.00000	Aver		<-

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 20.06995
Maximun Average %D/Drift = 0.000e+000
* Failed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Lab Smp Id: CCV
Inj Date : 11-MAR-2017 10:37
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.094	2.094	(0.491)	36611	10.0000	5.97
2	1,1-Difluoroethane	65	2.142	2.142	(0.502)	192788	10.0000	11.0
3	Chlorodifluoromethane	67	2.155	2.155	(0.505)	103643	10.0000	11.9
4	Propylene	41	2.162	2.162	(0.507)	800237	10.0000	12.8
5	Dichlorodifluoromethane	85	2.181	2.181	(0.511)	960779	10.0000	12.2
6	Dichlorotetrafluoroethane	85	2.245	2.245	(0.526)	935036	10.0000	11.7
7	Chloromethane	50	2.245	2.245	(0.526)	408598	10.0000	11.0
8	Vinyl chloride	62	2.303	2.303	(0.540)	315515	10.0000	11.0
9	1,3-Butadiene	54	2.332	2.332	(0.547)	225758	10.0000	11.3
10	Bromomethane	94	2.435	2.435	(0.571)	353016	10.0000	11.4
11	Chloroethane	64	2.473	2.473	(0.580)	127395	10.0000	11.7
12	Ethanol	45	2.534	2.534	(0.594)	363068	50.0000	65.8(H)
13	Vinyl Bromide	106	2.560	2.560	(0.600)	344335	10.0000	11.8
14	Isopentane	43	2.572	2.572	(0.603)	363724	10.0000	10.6(H)
15	Freon 123	83	2.579	2.579	(0.604)	831610	10.0000	11.4
16	Trichlorofluoromethane	101	2.630	2.630	(0.616)	986970	10.0000	11.9(H)
17	Acrolein	56	2.637	2.637	(0.618)	252647	25.0000	28.4
18	Acetone	43	2.666	2.666	(0.625)	2319372	50.0000	64.5
19	Isopropyl Alcohol	45	2.704	2.704	(0.634)	1708420	50.0000	61.0(H)
20	1,1-Dichloroethene	61	2.820	2.820	(0.661)	567625	10.0000	11.5
21	Acrylonitrile	53	2.836	2.836	(0.665)	558397	25.0000	31.7
24	Tert Butyl Alcohol (TBA)	59	2.858	2.858	(0.670)	1361563	25.0000	35.7(H)
22	Freon 113	101	2.848	2.848	(0.668)	751240	10.0000	11.6
23	Methyl Acetate	43	2.858	2.858	(0.670)	860040	10.0000	12.6

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	25 Methylene chloride	49	2.897	2.897	(0.679)	1898157	50.0000	61.4(H)
	26 Allyl Chloride	76	2.906	2.906	(0.681)	261995	25.0000	33.6(H)
	27 Carbon Disulfide	76	2.986	2.986	(0.700)	812703	10.0000	11.6
	28 trans-1,2-dichloroethene	96	3.115	3.115	(0.730)	289799	10.0000	12.4
	29 Methyl Tert Butyl Ether	73	3.140	3.140	(0.736)	1806599	25.0000	29.4
	30 Vinyl Acetate	43	3.217	3.217	(0.754)	935589	10.0000	11.6
	31 1,1-Dichloroethane	63	3.227	3.227	(0.756)	608256	10.0000	11.4
$	32 Hexane-d14(S)	66	3.291	3.291	(0.771)	1848542	10.0000	9.68
	33 Methyl Ethyl Ketone	72	3.362	3.362	(0.788)	131198	10.0000	11.5(H)
	34 n-Hexane	57	3.372	3.372	(0.790)	459171	10.0000	11.1
	35 Di-isopropyl Ether	45	3.394	3.394	(0.795)	1123150	10.0000	11.2
	36 cis-1,2-Dichloroethene	96	3.490	3.490	(0.818)	322015	10.0000	12.1
	37 Ethyl Acetate	43	3.503	3.503	(0.821)	788923	10.0000	11.9
	38 Ethyl Tert-Butyl Ether	59	3.587	3.587	(0.841)	2215434	25.0000	29.9
	39 Chloroform	83	3.590	3.590	(0.841)	809599	10.0000	12.1
	40 Tetrahydrofuran	42	3.728	3.728	(0.874)	376555	10.0000	11.3
	41 1,1,1-Trichloroethane	97	3.920	3.920	(0.919)	822110	10.0000	12.2
	42 1,2-Dichloroethane	62	3.933	3.933	(0.922)	586211	10.0000	12.0
	43 Benzene	78	4.126	4.126	(0.967)	913160	10.0000	11.5
	45 Carbon tetrachloride	117	4.138	4.138	(0.970)	842937	10.0000	13.3
	44 Cyclohexane	56	4.138	4.138	(0.970)	437856	10.0000	10.7
	46 Tert Amyl Methyl Ether	73	4.260	4.260	(0.998)	942948	10.0000	11.4
*	47 1,4-Difluorobenzene	114	4.267	4.267	(1.000)	3596167	10.0000	
	48 2,2,4-Trimethylpentane	57	4.392	4.392	(1.029)	2972814	25.0000	30.1
	49 Heptane	43	4.507	4.507	(1.056)	649861	10.0000	10.5
	50 1,2-Dichloropropane	63	4.575	4.575	(1.072)	403976	10.0000	11.1
	51 Trichloroethene	130	4.591	4.591	(1.076)	511299	10.0000	11.8
	52 Methyl methacrylate	69	4.671	4.671	(1.095)	328993	10.0000	11.5
	53 Bromodichloromethane	83	4.684	4.684	(1.098)	928589	10.0000	12.4
	54 1,4-Dioxane	88	4.694	4.694	(1.100)	67132	10.0000	11.2
	55 Methylcyclohexane	98	4.976	4.976	(1.166)	180131	10.0000	10.8
	56 Methyl Isobutyl Ketone	43	5.111	5.111	(1.198)	2160050	25.0000	28.8
	57 cis-1,3-Dichloropropene	75	5.143	5.143	(1.205)	588301	10.0000	11.9
	58 trans-1,3-Dichloropropene	75	5.518	5.518	(1.293)	545950	10.0000	11.6
$	59 Toluene-d8 (S)	98	5.579	5.579	(1.308)	3548251	10.0000	9.85
	60 Toluene	91	5.650	5.650	(1.324)	1176478	10.0000	11.1
	61 1,1,2-Trichloroethane	97	5.659	5.659	(1.326)	456983	10.0000	11.1
	62 Methyl Butyl Ketone	43	5.894	5.894	(0.837)	2126266	25.0000	30.2
	63 n-Octane	43	6.064	6.064	(0.861)	815936	10.0000	11.2
	64 Dibromochloromethane	129	6.138	6.138	(0.872)	977053	10.0000	13.5
	65 1,2-Dibromoethane	107	6.349	6.349	(0.902)	776601	10.0000	12.4
	66 Tetrachloroethene	166	6.417	6.417	(0.911)	775874	10.0000	11.9
*	67 Chlorobenzene - d5	117	7.042	7.042	(1.000)	2947178	10.0000	
	68 Chlorobenzene	112	7.081	7.081	(1.005)	932427	10.0000	11.7
	69 Ethyl Benzene	91	7.325	7.325	(1.040)	1480788	10.0000	11.5
	70 m&p-Xylene	91	7.469	7.469	(1.061)	2201827	20.0000	25.1
	71 Bromoform	173	7.832	7.832	(1.112)	1013589	10.0000	12.3
	72 n-Nonane	43	7.864	7.864	(1.117)	831611	10.0000	12.3
	73 Styrene	104	7.874	7.874	(1.118)	845138	10.0000	12.9
	74 o-Xylene	91	7.938	7.938	(1.127)	1170063	10.0000	11.0
	75 1,1,2,2-Tetrachloroethane	83	8.201	8.201	(1.164)	852879	10.0000	12.0
	76 Isopropylbenzene	105	8.506	8.506	(1.208)	1508838	10.0000	11.4
	77 N-Propylbenzene	91	9.061	9.061	(1.287)	1728530	10.0000	12.5
	78 4-Ethyltoluene	105	9.234	9.234	(1.311)	1427541	10.0000	12.6

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
79	1,3,5-Trimethylbenzene	105	9.321	9.321	(1.323)	1190358	10.0000	12.1
80	n-Decane	57	9.728	9.728	(2.280)	669742	10.0000	11.5
81	Tert-Butyl Benzene	119	9.815	9.815	(1.394)	1196529	10.0000	11.4
82	1,2,4-Trimethylbenzene	105	9.834	9.834	(1.396)	1135169	10.0000	11.8
83	1,3-Dichlorobenzene	146	10.129	10.129	(1.438)	811611	10.0000	11.8(M)
84	Sec- Butylbenzene	105	10.158	10.158	(1.442)	1574227	10.0000	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.203	10.203	(1.449)	1910676	10.0000	10.6
86	Benzyl Chloride	91	10.226	10.226	(1.452)	869516	10.0000	12.1
87	1,4-Dichlorobenzene	146	10.242	10.242	(1.454)	785780	10.0000	10.9
88	p-Isopropyltoluene	119	10.380	10.380	(1.474)	1406040	10.0000	12.2
89	1,2,3-Trimethylbenzene	105	10.418	10.418	(1.479)	1085463	10.0000	12.0
90	1,2-Dichlorobenzene	146	10.707	10.707	(1.520)	728332	10.0000	11.4
91	N-Butylbenzene	91	10.970	10.970	(1.558)	1207177	10.0000	12.7
92	1,2-Dibromo-3-Chloropropane	157	11.532	11.532	(1.637)	249774	10.0000	17.1
93	1,2,4-Trichlorobenzene	180	12.835	12.835	(1.822)	290030	10.0000	16.9
94	Naphthalene	128	12.957	12.957	(1.840)	527076	10.0000	17.1
95	Hexachlorobutadiene	225	13.213	13.213	(1.876)	354888	10.0000	13.8

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07002.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

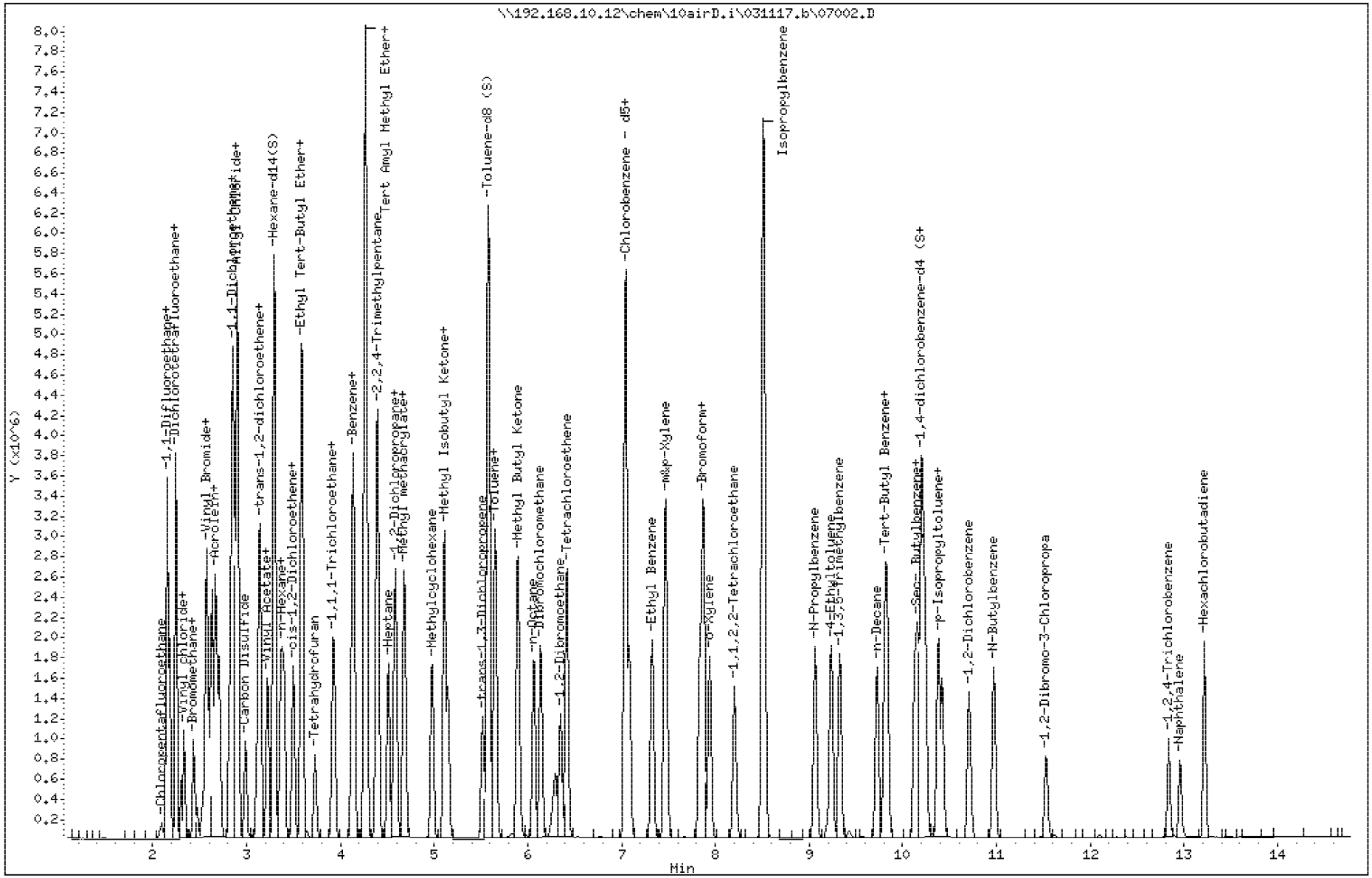
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3596167	-5.05
67 Chlorobenzene - d	3280875	1968525	4593225	2947178	-10.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.27	0.45
67 Chlorobenzene - d	7.03	6.70	7.36	7.04	0.14

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

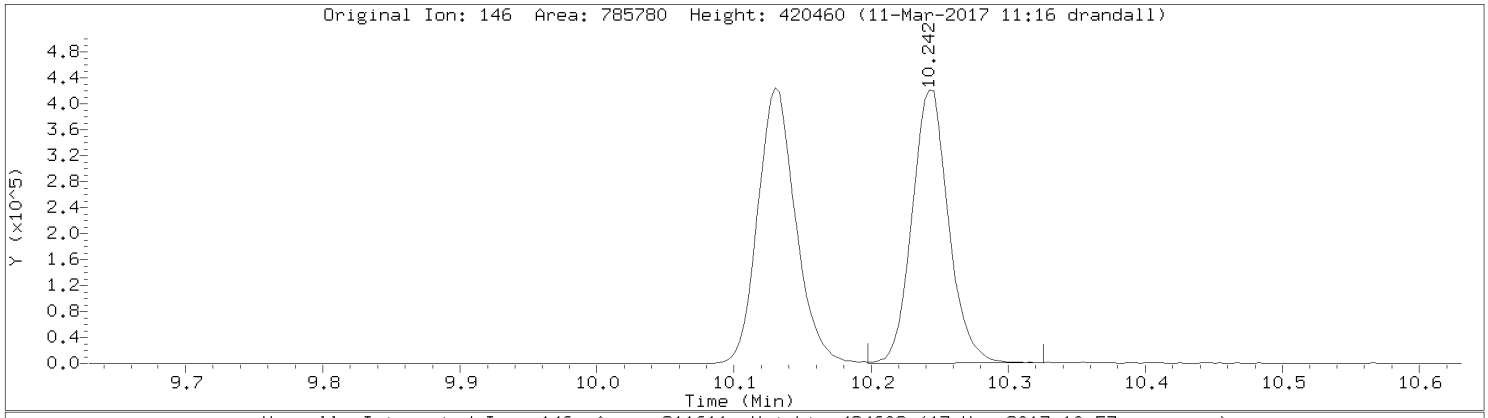
Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Date : 11-MAR-2017 10:37
Client ID:
Sample Info:

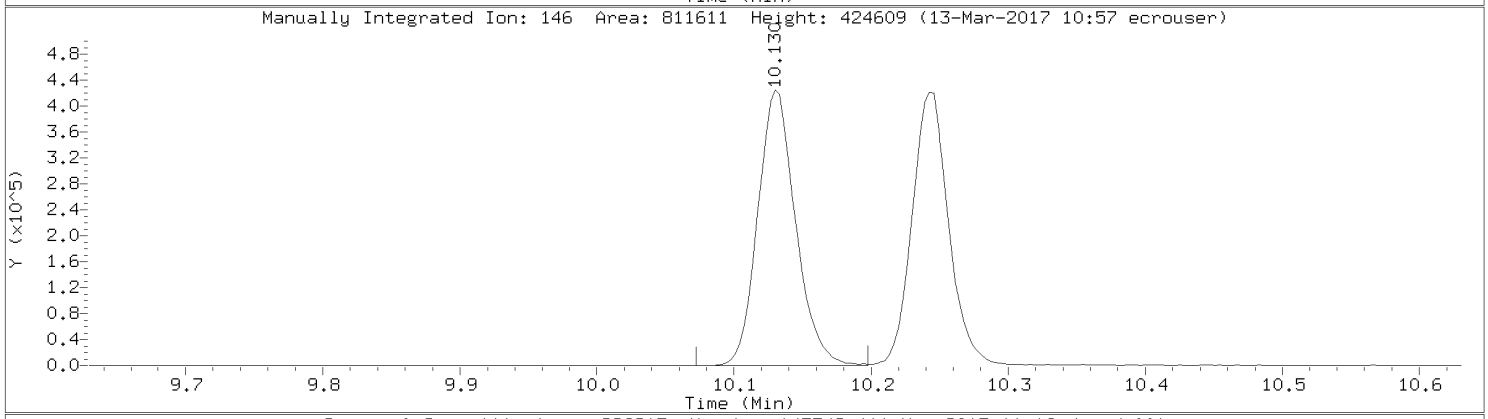
Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32

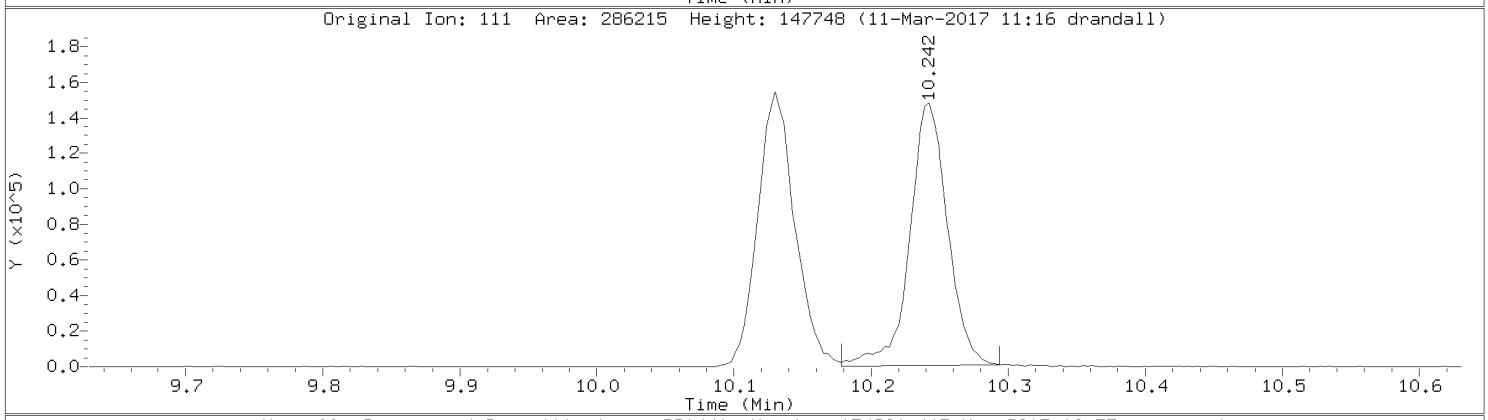


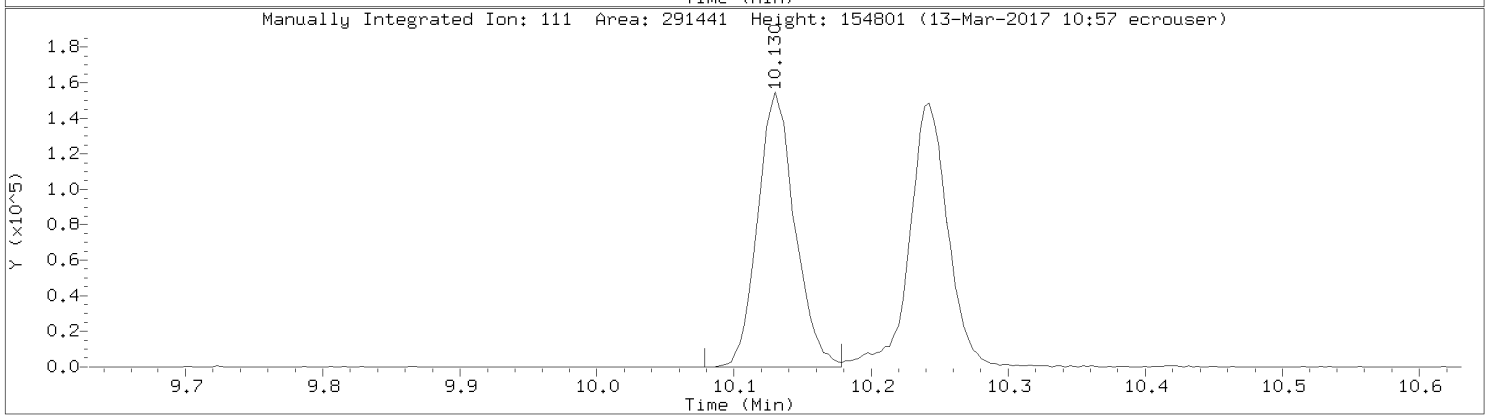
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07002.D
Injection Date: 11-MAR-2017 10:37
Instrument: 10airD.i
Lab Sample ID: CCV

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

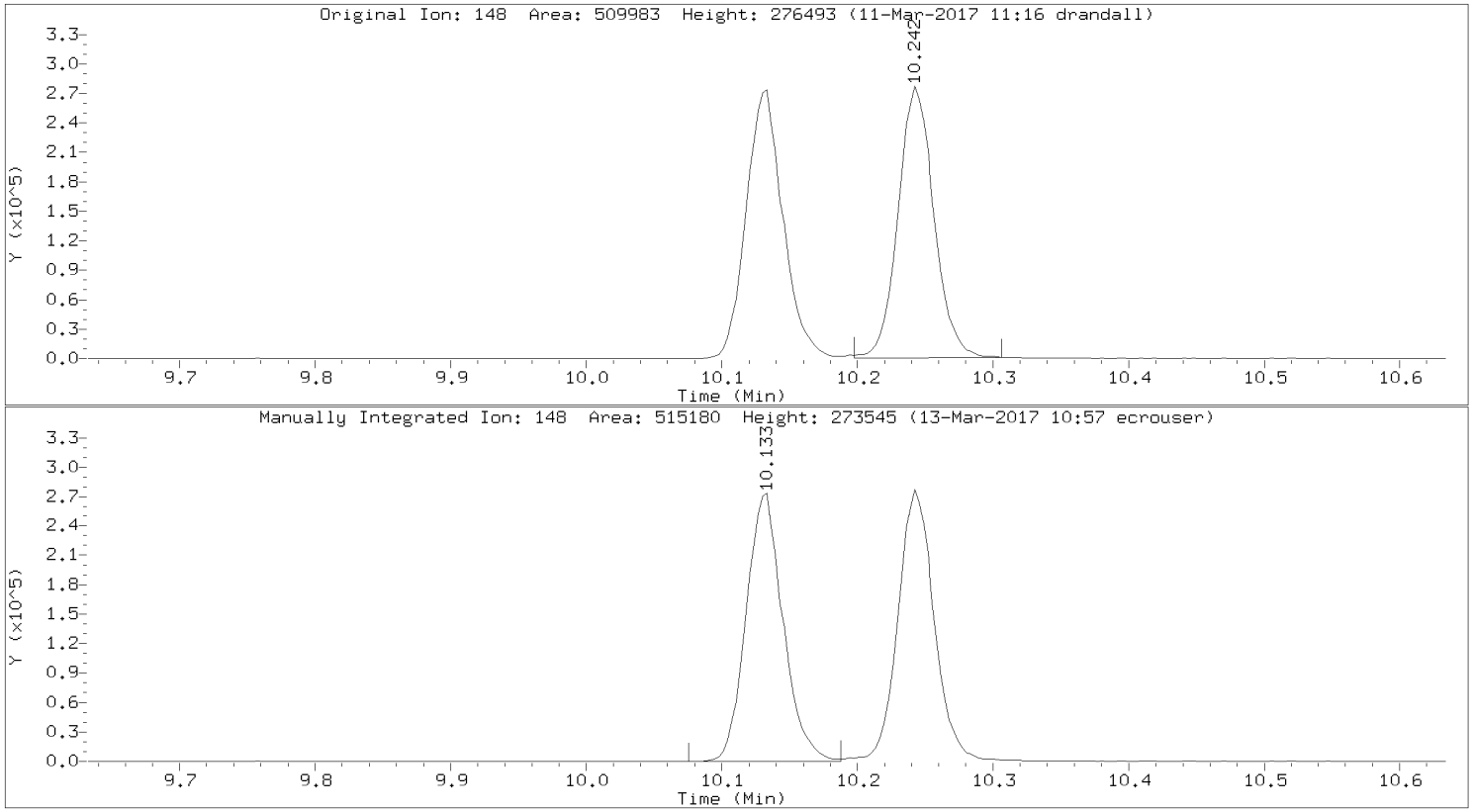








Data File: \\192.168.10.12\chem\10airD.i\031117.b/07002.D
Injection Date: 11-MAR-2017 10:37
Instrument: 10airD.i
Lab Sample ID: CCV



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 12-MAR-2017 10:04
Lab File ID: 07102.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	5.33401	0.00910	0.010	-46.65993	30.00000	Line		<-
	2 1,1-Difluoroethane	0.04870	0.05176	0.05176	0.010	6.29446	30.00000	Aver		
	3 Chlorodifluoromethane	0.02414	0.02803	0.02803	0.010	16.11942	30.00000	Aver	(H)	
	4 Propylene	0.17404	0.22196	0.22196	0.010	27.52985	30.00000	Aver		
	5 Dichlorodifluoromethane	0.21985	0.26148	0.26148	0.010	18.93430	30.00000	Aver		
	6 Dichlorotetrafluoroethane	0.22303	0.25579	0.25579	0.010	14.68994	30.00000	Aver		
	7 Chloromethane	0.10311	0.11213	0.11213	0.010	8.74853	30.00000	Aver		
	8 Vinyl chloride	0.08004	0.08689	0.08689	0.010	8.56157	30.00000	Aver		
	9 1,3-Butadiene	0.05565	0.06145	0.06145	0.010	10.41911	30.00000	Aver		
	10 Bromomethane	0.08641	0.09560	0.09560	0.010	10.63769	30.00000	Aver		
	11 Chloroethane	0.03032	0.03346	0.03346	0.010	10.36518	30.00000	Aver		
	12 Ethanol	0.01535	0.02249	0.02249	0.005	46.46798	30.00000	Aver		<-
	13 Vinyl Bromide	0.08099	0.09338	0.09338	0.010	15.29440	30.00000	Aver		
	14 Isopentane	0.09580	0.09774	0.09774	0.010	2.02138	30.00000	Aver		
	15 Freon 123	0.20267	0.22846	0.22846	0.010	12.72290	30.00000	Aver		
	16 Trichlorofluoromethane	0.23000	0.26129	0.26129	0.010	13.60507	30.00000	Aver		
	17 Acrolein	25.00000	27.00312	0.02675	0.010	8.01249	30.00000	Quad		
	18 Acetone	50.00000	62.24071	0.12550	0.010	24.48143	30.00000	Quad		
	19 Isopropyl Alcohol	0.07790	0.10720	0.10720	0.010	37.61705	30.00000	Aver		<-
	20 1,1-Dichloroethene	0.13698	0.15591	0.15591	0.010	13.81980	30.00000	Aver		
	21 Acrylonitrile	0.04898	0.06024	0.06024	0.010	22.98266	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.10598	0.15963	0.15963	0.010	50.62230	30.00000	Aver		<-
	22 Freon 113	0.18032	0.20253	0.20253	0.010	12.32104	30.00000	Aver		
	23 Methyl Acetate	0.19043	0.23324	0.23324	0.010	22.47979	30.00000	Aver		
	25 Methylene chloride	50.00000	58.65558	0.10175	0.010	17.31117	30.00000	Quad		
	26 Allyl Chloride	0.02168	0.02840	0.02840	0.010	30.96053	30.00000	Aver		<-
	27 Carbon Disulfide	0.19415	0.21863	0.21863	0.010	12.60876	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.06513	0.07857	0.07857	0.010	20.63231	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.17114	0.20154	0.20154	0.010	17.76558	30.00000	Aver		
	30 Vinyl Acetate	10.00000	11.21917	0.25215	0.010	12.19174	30.00000	Quad		
	31 1,1-Dichloroethane	0.14799	0.16440	0.16440	0.010	11.09289	30.00000	Aver		
$	32 Hexane-d14(S)	0.53088	0.48722	0.48722	0.010	-8.22460	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.03179	0.03610	0.03610	0.010	13.53069	30.00000	Aver		
	34 n-Hexane	0.11495	0.12493	0.12493	0.010	8.67414	30.00000	Aver		
	35 Di-isopropyl Ether	0.27870	0.31403	0.31403	0.010	12.67726	30.00000	Aver		
	36 cis-1,2-Dichloroethene	0.07378	0.08685	0.08685	0.010	17.72075	30.00000	Aver		
	37 Ethyl Acetate	0.18393	0.21476	0.21476	0.010	16.76298	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	25.00000	30.11566	0.24759	0.010	20.46264	30.00000	Quad		
	39 Chloroform	0.18632	0.21748	0.21748	0.010	16.72271	30.00000	Aver		
	40 Tetrahydrofuran	0.09282	0.10161	0.10161	0.010	9.47135	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.18743	0.21843	0.21843	0.010	16.53882	30.00000	Aver		
	42 1,2-Dichloroethane	0.13614	0.15319	0.15319	0.010	12.52626	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 12-MAR-2017 10:04
Lab File ID: 07102.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.22006	0.24979	0.24979	0.010	13.51243	30.00000	Aver		
	45 Carbon tetrachloride	0.17641	0.22260	0.22260	0.010	26.18182	30.00000	Aver		
	44 Cyclohexane	0.11361	0.11807	0.11807	0.010	3.93237	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	10.85962	0.25195	0.010	8.59617	30.00000	Quad		
	48 2,2,4-Trimethylpentane	25.00000	32.05143	0.34642	0.010	28.20571	30.00000	Quad		
	49 Heptane	0.17179	0.18130	0.18130	0.010	5.53975	30.00000	Aver		
	50 1,2-Dichloropropane	0.10137	0.11207	0.11207	0.010	10.55908	30.00000	Aver		
	51 Trichloroethene	0.12079	0.13618	0.13618	0.010	12.73752	30.00000	Aver		
	52 Methyl methacrylate	0.07981	0.09131	0.09131	0.010	14.40687	30.00000	Aver		
	53 Bromodichloromethane	0.20800	0.24910	0.24910	0.010	19.75599	30.00000	Aver		
	54 1,4-Dioxane	0.01662	0.02426	0.02426	0.010	46.00572	30.00000	Aver		<-
	55 Methylcyclohexane	0.04658	0.04903	0.04903	0.010	5.25110	30.00000	Aver		
	56 Methyl Isobutyl Ketone	25.00000	29.57796	0.24543	0.010	18.31183	30.00000	Quad		
	57 cis-1,3-Dichloropropene	0.13716	0.16070	0.16070	0.010	17.16665	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	11.03640	0.14375	0.010	10.36402	30.00000	Quad		
$	59 Toluene-d8 (S)	1.00202	0.97933	0.97933	0.010	-2.26465	30.00000	Aver		
	60 Toluene	0.29562	0.32904	0.32904	0.010	11.30594	30.00000	Aver		
	61 1,1,2-Trichloroethane	0.11446	0.12777	0.12777	0.010	11.62843	30.00000	Aver		
	62 Methyl Butyl Ketone	0.23865	0.30538	0.30538	0.010	27.96430	30.00000	Aver		
	63 n-Octane	0.24816	0.28948	0.28948	0.010	16.65374	30.00000	Aver		
	64 Dibromochloromethane	0.24616	0.35099	0.35099	0.010	42.58362	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.21282	0.27581	0.27581	0.010	29.59572	30.00000	Aver		
	66 Tetrachloroethene	0.22107	0.27859	0.27859	0.010	26.01580	30.00000	Aver		
	68 Chlorobenzene	0.26931	0.33335	0.33335	0.010	23.77881	30.00000	Aver		
	69 Ethyl Benzene	0.43877	0.54109	0.54109	0.010	23.32060	30.00000	Aver		
	70 m&p-Xylene	20.00000	26.53040	0.39106	0.010	32.65201	30.00000	Quad		<-
	71 Bromoform	10.00000	13.32907	0.37306	0.010	33.29075	30.00000	Quad		<-
	72 n-Nonane	0.22897	0.29219	0.29219	0.010	27.60993	30.00000	Aver		
	73 Styrene	0.22257	0.30003	0.30003	0.010	34.80438	30.00000	Aver		<-
	74 o-Xylene	0.36173	0.42577	0.42577	0.010	17.70112	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.24035	0.30584	0.30584	0.010	27.24701	30.00000	Aver		
	76 Isopropylbenzene	0.44783	0.55163	0.55163	0.010	23.17819	30.00000	Aver		
	77 N-Propylbenzene	0.47101	0.62584	0.62584	0.010	32.87237	30.00000	Aver		<-
	78 4-Ethyltoluene	0.38527	0.50524	0.50524	0.010	31.14057	30.00000	Aver		<-
	79 1,3,5-Trimethylbenzene	10.00000	12.93276	0.43081	0.010	29.32764	30.00000	Quad		
	80 n-Decane	0.16252	0.17368	0.17368	0.010	6.86599	30.00000	Aver		
	81 Tert-Butyl Benzene	0.35493	0.42665	0.42665	0.010	20.20597	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	10.00000	12.69683	0.41080	0.010	26.96831	30.00000	Quad		
	83 1,3-Dichlorobenzene	0.23428	0.28377	0.28377	0.010	21.12745	30.00000	Aver	(M)	
	84 Sec- Butylbenzene	0.44065	0.56681	0.56681	0.010	28.63064	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.61269	0.58881	0.58881	0.010	-3.89691	30.00000	Aver		
	86 Benzyl Chloride	0.24404	0.29221	0.29221	0.010	19.73856	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 12-MAR-2017 10:04
Lab File ID: 07102.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.24462	0.27781	0.27781	0.010	13.56734	30.00000	Aver		
88 p-Isopropyltoluene	0.39245	0.50394	0.50394	0.010	28.40870	30.00000	Aver		
89 1,2,3-Trimethylbenzene	0.30707	0.39175	0.39175	0.010	27.57506	30.00000	Aver		
90 1,2-Dichlorobenzene	0.21704	0.26288	0.26288	0.010	21.11731	30.00000	Aver		
91 N-Butylbenzene	0.32199	0.43533	0.43533	0.010	35.19821	30.00000	Aver		<-
92 1,2-Dibromo-3-Chloropropane	0.04958	0.09072	0.09072	0.010	82.97849	30.00000	Aver		<-
93 1,2,4-Trichlorobenzene	0.05837	0.10414	0.10414	0.010	78.40410	30.00000	Aver		<-
94 Naphthalene	0.10479	0.20050	0.20050	0.010	91.33797	30.00000	Aver		<-
95 Hexachlorobutadiene	0.08712	0.12981	0.12981	0.010	49.00428	30.00000	Aver		<-

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 21.91152
Maximun Average %D/Drift = 0.000e+000
* Failed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Lab Smp Id: CCV
Inj Date : 12-MAR-2017 10:04
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:55 10airD.i Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS09

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.065	2.065	(0.486)	29297	10.0000	5.33
2	1,1-Difluoroethane	65	2.113	2.113	(0.497)	166669	10.0000	10.6
3	Chlorodifluoromethane	67	2.123	2.123	(0.500)	90269	10.0000	11.6(H)
4	Propylene	41	2.130	2.130	(0.501)	714703	10.0000	12.8
5	Dichlorodifluoromethane	85	2.152	2.152	(0.506)	841976	10.0000	11.9
6	Dichlorotetrafluoroethane	85	2.219	2.219	(0.522)	823654	10.0000	11.5
7	Chloromethane	50	2.219	2.219	(0.522)	361058	10.0000	10.9
8	Vinyl chloride	62	2.274	2.274	(0.535)	279803	10.0000	10.9
9	1,3-Butadiene	54	2.306	2.306	(0.543)	197863	10.0000	11.0
10	Bromomethane	94	2.409	2.409	(0.567)	307824	10.0000	11.1
11	Chloroethane	64	2.447	2.447	(0.576)	107733	10.0000	11.0
12	Ethanol	45	2.502	2.502	(0.589)	362040	50.0000	73.2
13	Vinyl Bromide	106	2.534	2.534	(0.596)	300680	10.0000	11.5
14	Isopentane	43	2.547	2.547	(0.599)	314728	10.0000	10.2
15	Freon 123	83	2.553	2.553	(0.601)	735630	10.0000	11.3
16	Trichlorofluoromethane	101	2.604	2.604	(0.613)	841353	10.0000	11.4
17	Acrolein	56	2.611	2.611	(0.614)	215301	25.0000	27.0
18	Acetone	43	2.640	2.640	(0.621)	2020613	50.0000	62.2
19	Isopropyl Alcohol	45	2.678	2.678	(0.630)	1725965	50.0000	68.8
20	1,1-Dichloroethene	61	2.794	2.794	(0.657)	502020	10.0000	11.4
21	Acrylonitrile	53	2.810	2.810	(0.661)	484907	25.0000	30.7
24	Tert Butyl Alcohol (TBA)	59	2.832	2.832	(0.666)	1285017	25.0000	37.7
22	Freon 113	101	2.826	2.826	(0.665)	652164	10.0000	11.2

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	23 Methyl Acetate	43	2.835	2.835	(0.667)	751039	10.0000	12.2
	25 Methylene chloride	49	2.871	2.871	(0.675)	1638138	50.0000	58.7
	26 Allyl Chloride	76	2.880	2.880	(0.678)	228606	25.0000	32.7
	27 Carbon Disulfide	76	2.964	2.964	(0.697)	704001	10.0000	11.3
	28 trans-1,2-dichloroethene	96	3.092	3.092	(0.728)	253007	10.0000	12.1
	29 Methyl Tert Butyl Ether	73	3.118	3.118	(0.734)	1622431	25.0000	29.4
	30 Vinyl Acetate	43	3.195	3.195	(0.752)	811941	10.0000	11.2
	31 1,1-Dichloroethane	63	3.205	3.205	(0.754)	529381	10.0000	11.1
$	32 Hexane-d14(S)	66	3.272	3.272	(0.770)	1568858	10.0000	9.18
	33 Methyl Ethyl Ketone	72	3.339	3.339	(0.786)	116231	10.0000	11.4
	34 n-Hexane	57	3.349	3.349	(0.788)	402264	10.0000	10.9
	35 Di-isopropyl Ether	45	3.375	3.375	(0.794)	1011179	10.0000	11.3
	36 cis-1,2-Dichloroethene	96	3.471	3.471	(0.817)	279669	10.0000	11.8
	37 Ethyl Acetate	43	3.480	3.480	(0.819)	691526	10.0000	11.7
	38 Ethyl Tert-Butyl Ether	59	3.567	3.567	(0.839)	1993091	25.0000	30.1
	39 Chloroform	83	3.570	3.570	(0.840)	700286	10.0000	11.7
	40 Tetrahydrofuran	42	3.708	3.708	(0.872)	327200	10.0000	10.9
	41 1,1,1-Trichloroethane	97	3.904	3.904	(0.918)	703333	10.0000	11.7
	42 1,2-Dichloroethane	62	3.917	3.917	(0.921)	493267	10.0000	11.3
	43 Benzene	78	4.106	4.106	(0.966)	804339	10.0000	11.4
	45 Carbon tetrachloride	117	4.119	4.119	(0.969)	716785	10.0000	12.6
	44 Cyclohexane	56	4.122	4.122	(0.970)	380198	10.0000	10.4
	46 Tert Amyl Methyl Ether	73	4.244	4.244	(0.998)	811293	10.0000	10.9
*	47 1,4-Difluorobenzene	114	4.251	4.251	(1.000)	3220013	10.0000	
	48 2,2,4-Trimethylpentane	57	4.376	4.376	(1.029)	2788703	25.0000	32.1
	49 Heptane	43	4.494	4.494	(1.057)	583804	10.0000	10.6
	50 1,2-Dichloropropane	63	4.559	4.559	(1.072)	360870	10.0000	11.1
	51 Trichloroethene	130	4.575	4.575	(1.076)	438502	10.0000	11.3
	52 Methyl methacrylate	69	4.658	4.658	(1.096)	294025	10.0000	11.4
	53 Bromodichloromethane	83	4.668	4.668	(1.098)	802096	10.0000	12.0
	54 1,4-Dioxane	88	4.674	4.674	(1.100)	78130	10.0000	14.6
	55 Methylcyclohexane	98	4.960	4.960	(1.167)	157880	10.0000	10.5
	56 Methyl Isobutyl Ketone	43	5.095	5.095	(1.199)	1975738	25.0000	29.6
	57 cis-1,3-Dichloropropene	75	5.130	5.130	(1.207)	517461	10.0000	11.7
	58 trans-1,3-Dichloropropene	75	5.509	5.509	(1.296)	462892	10.0000	11.0
$	59 Toluene-d8 (S)	98	5.566	5.566	(1.309)	3153447	10.0000	9.77
	60 Toluene	91	5.637	5.637	(1.326)	1059521	10.0000	11.1
	61 1,1,2-Trichloroethane	97	5.643	5.643	(1.328)	411426	10.0000	11.2
	62 Methyl Butyl Ketone	43	5.881	5.881	(0.836)	1892493	25.0000	32.0
	63 n-Octane	43	6.057	6.057	(0.861)	717581	10.0000	11.7
	64 Dibromochloromethane	129	6.128	6.128	(0.871)	870042	10.0000	14.3
	65 1,2-Dibromoethane	107	6.340	6.340	(0.901)	683687	10.0000	13.0
	66 Tetrachloroethene	166	6.407	6.407	(0.911)	690573	10.0000	12.6
*	67 Chlorobenzene - d5	117	7.033	7.033	(1.000)	2478835	10.0000	
	68 Chlorobenzene	112	7.074	7.074	(1.006)	826314	10.0000	12.4
	69 Ethyl Benzene	91	7.318	7.318	(1.041)	1341281	10.0000	12.3
	70 m&p-Xylene	91	7.463	7.463	(1.061)	1938764	20.0000	26.5
	71 Bromoform	173	7.829	7.829	(1.113)	924745	10.0000	13.3
	72 n-Nonane	43	7.861	7.861	(1.118)	724285	10.0000	12.8
	73 Styrene	104	7.867	7.867	(1.119)	743726	10.0000	13.5
	74 o-Xylene	91	7.934	7.934	(1.128)	1055402	10.0000	11.8
	75 1,1,2,2-Tetrachloroethane	83	8.198	8.198	(1.166)	758117	10.0000	12.7
	76 Isopropylbenzene	105	8.499	8.499	(1.208)	1367388	10.0000	12.3
	77 N-Propylbenzene	91	9.061	9.061	(1.288)	1551350	10.0000	13.3

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.231	9.231	(1.313)	1252412	10.0000	13.1
79	1,3,5-Trimethylbenzene	105	9.321	9.321	(1.325)	1067915	10.0000	12.9
80	n-Decane	57	9.725	9.725	(2.288)	559244	10.0000	10.7
81	Tert-Butyl Benzene	119	9.812	9.812	(1.395)	1057601	10.0000	12.0
82	1,2,4-Trimethylbenzene	105	9.828	9.828	(1.397)	1018309	10.0000	12.7
83	1,3-Dichlorobenzene	146	10.126	10.126	(1.440)	703430	10.0000	12.1(M)
84	Sec- Butylbenzene	105	10.155	10.155	(1.444)	1405021	10.0000	12.9
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.200	10.200	(1.450)	1459566	10.0000	9.61
86	Benzyl Chloride	91	10.222	10.222	(1.454)	724330	10.0000	12.0
87	1,4-Dichlorobenzene	146	10.238	10.238	(1.456)	688640	10.0000	11.4
88	p-Isopropyltoluene	119	10.380	10.380	(1.476)	1249189	10.0000	12.8
89	1,2,3-Trimethylbenzene	105	10.415	10.415	(1.481)	971077	10.0000	12.8
90	1,2-Dichlorobenzene	146	10.704	10.704	(1.522)	651628	10.0000	12.1
91	N-Butylbenzene	91	10.970	10.970	(1.560)	1079111	10.0000	13.5
92	1,2-Dibromo-3-Chloropropane	157	11.528	11.528	(1.639)	224886	10.0000	18.3
93	1,2,4-Trichlorobenzene	180	12.834	12.834	(1.825)	258137	10.0000	17.8
94	Naphthalene	128	12.956	12.956	(1.842)	497013	10.0000	19.1
95	Hexachlorobutadiene	225	13.213	13.213	(1.879)	321784	10.0000	14.9

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07102.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m
Misc Info:

Calibration Date: 09-MAR-2017
Calibration Time: 22:41
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

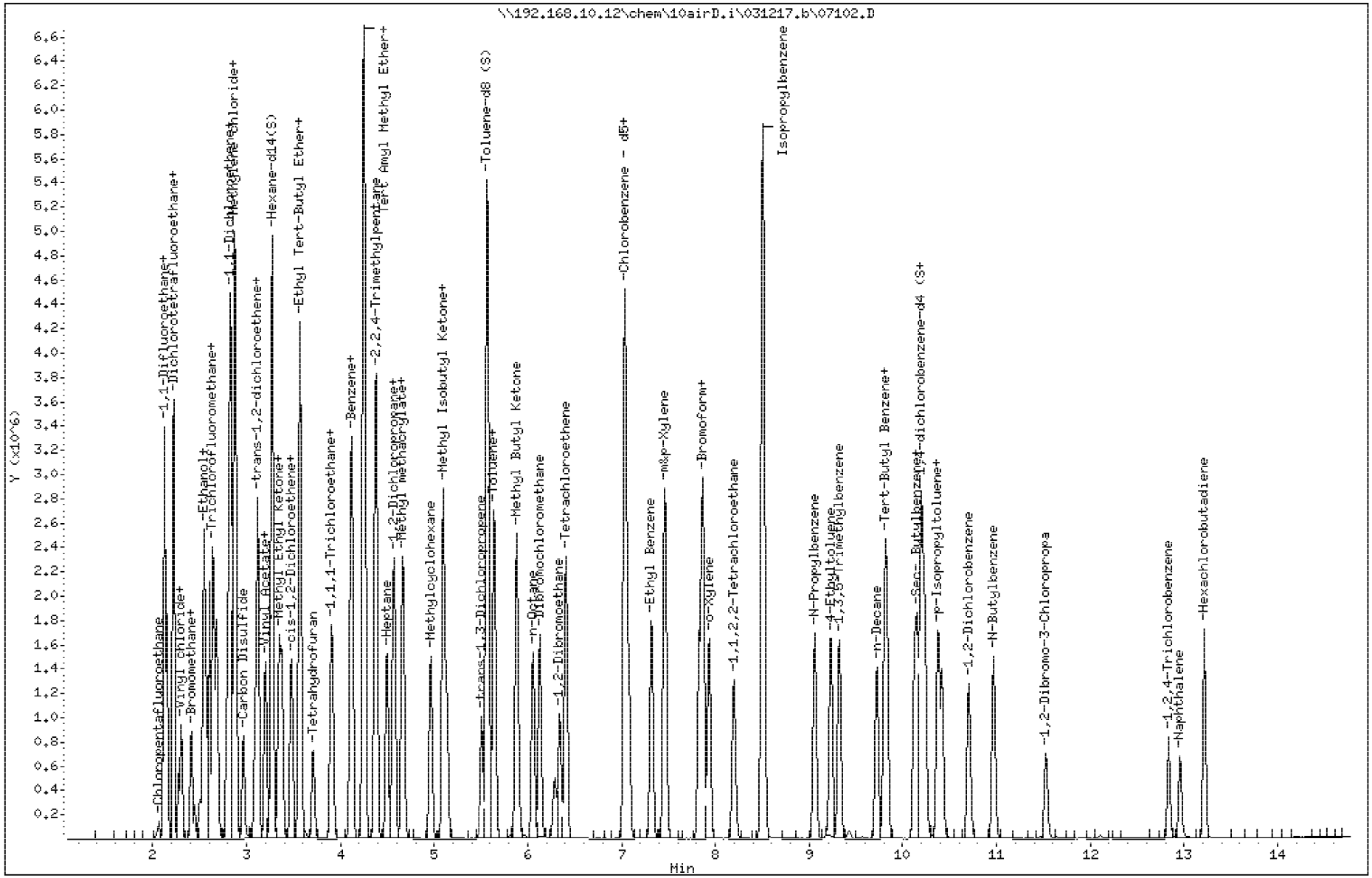
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3220013	-14.98
67 Chlorobenzene - d	3280875	1968525	4593225	2478835	-24.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	0.07
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

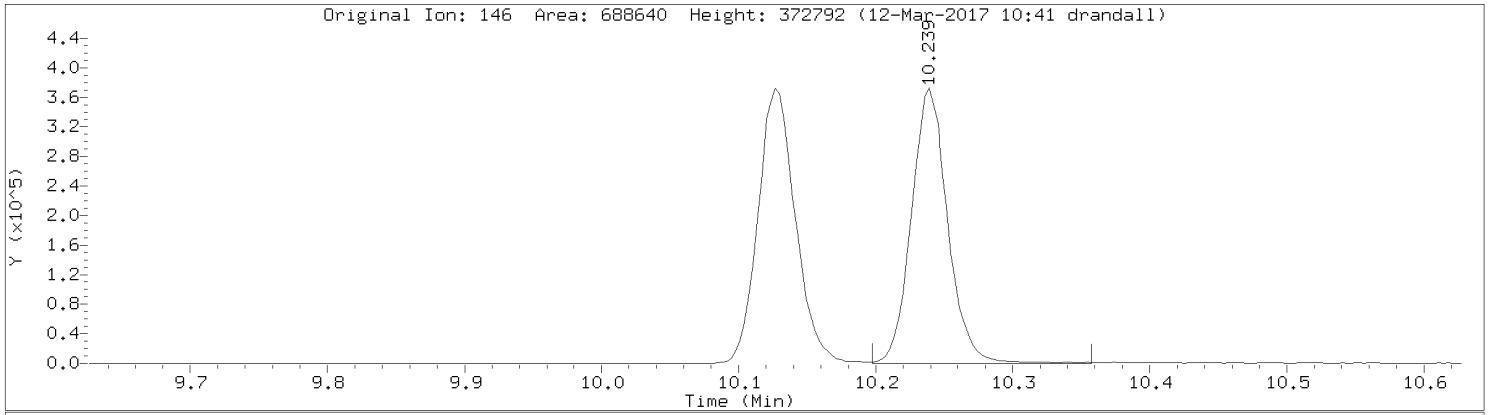
Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.D
Date : 12-MAR-2017 10:04
Client ID:
Sample Info:

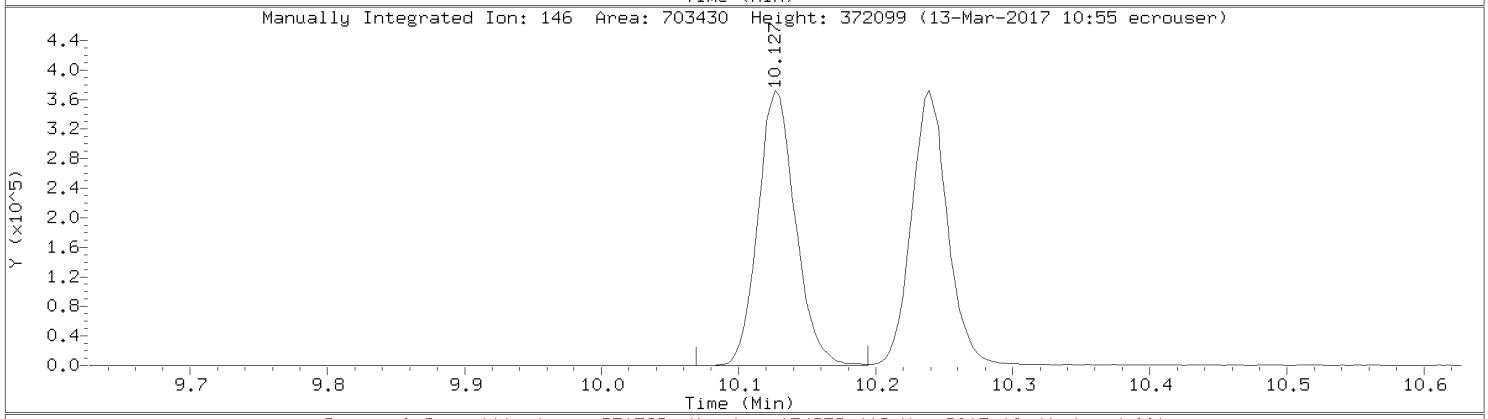
Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32

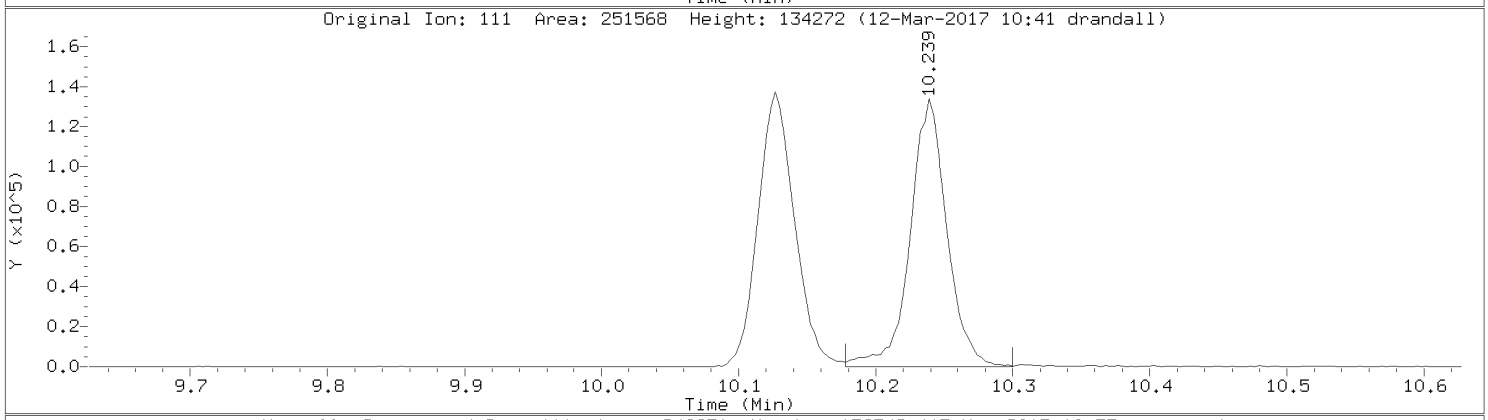


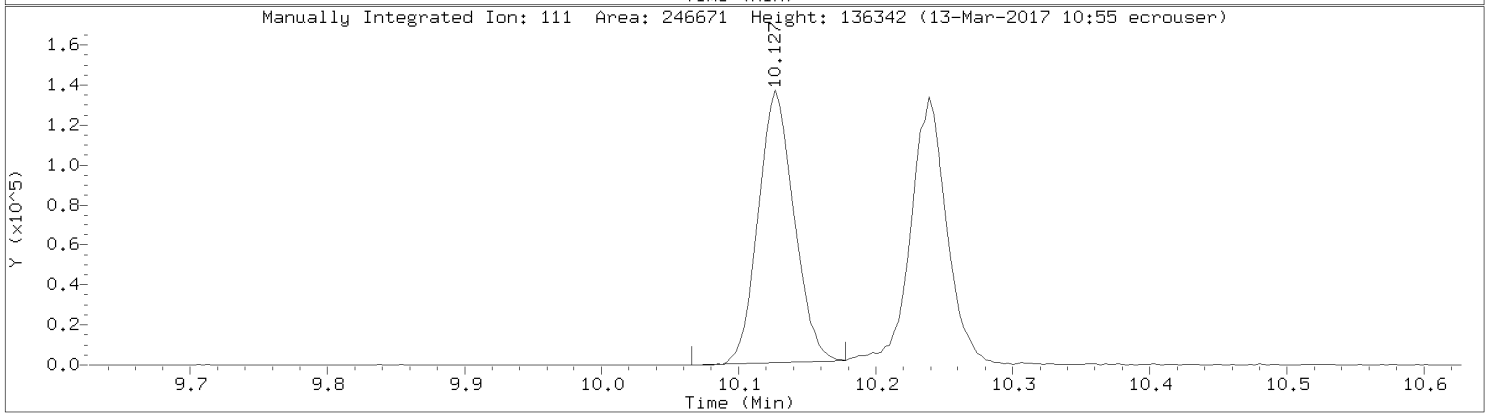
Data File: \\192.168.10.12\chem\10airD.i\031217.b/07102.d
Injection Date: 12-MAR-2017 10:04
Instrument: 10airD.i
Lab Sample ID: CCV

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

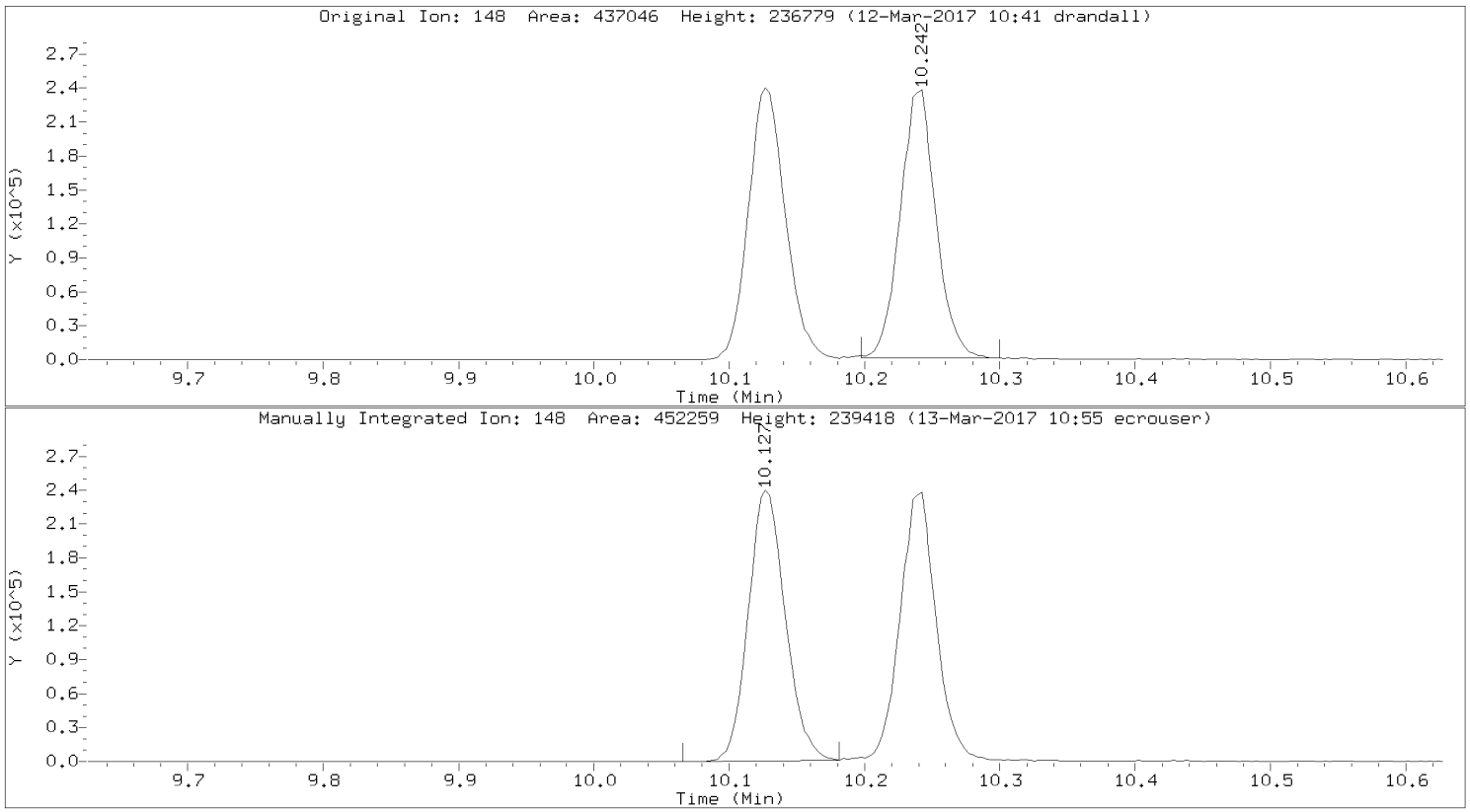








Data File: \\192.168.10.12\chem\10airD.i\031217.b/07102.d
Injection Date: 12-MAR-2017 10:04
Instrument: 10airD.i
Lab Sample ID: CCV



Data File: \\192.168.10.12\chem\10airD.i\030917.B\06814.D

Date : 09-MAR-2017 16:21

Client ID: BFB

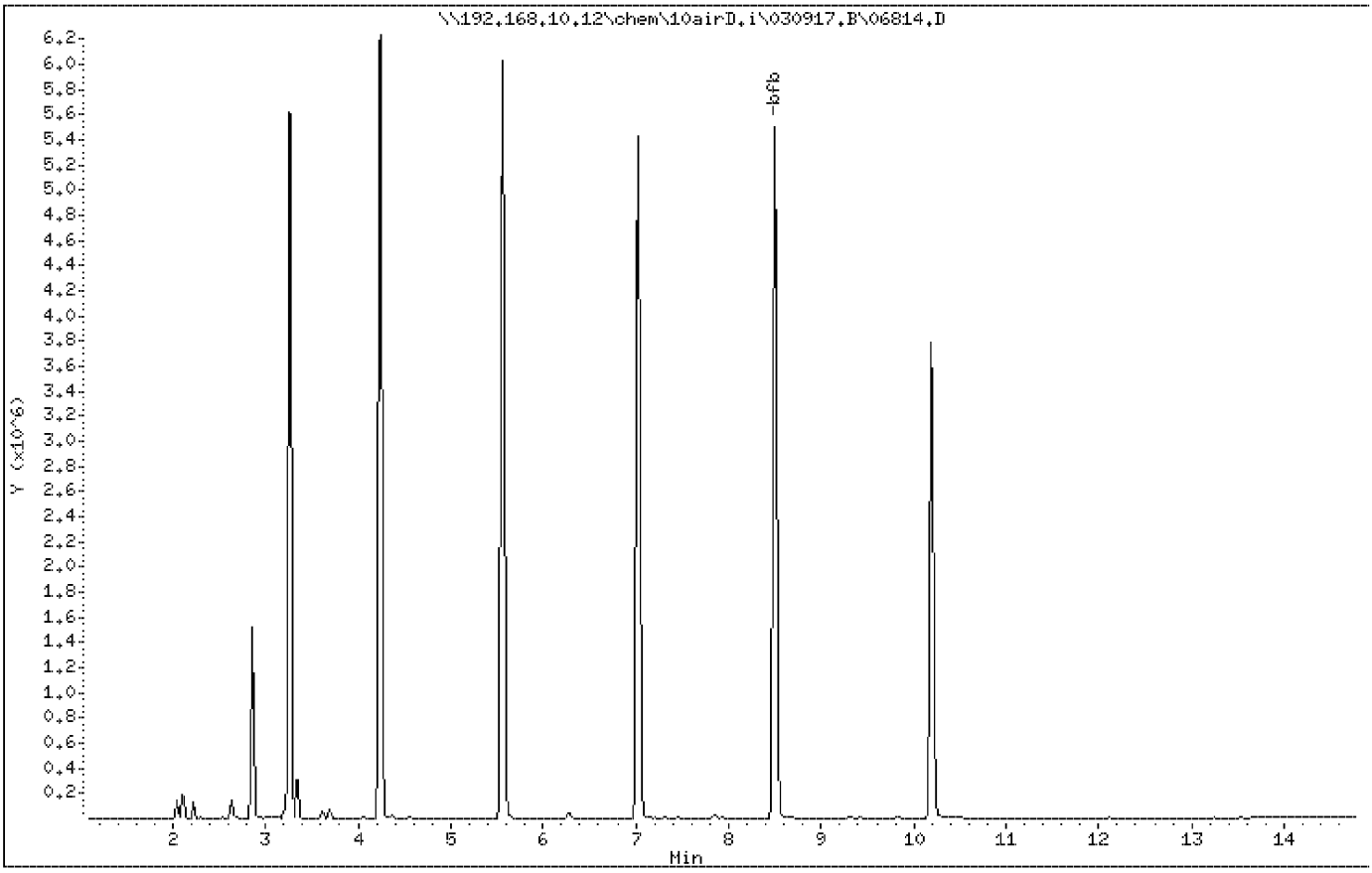
Instrument: 10airD.i

Sample Info:

Operator: EMC

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\030917.B\06814.D

Date : 09-MAR-2017 16:21

Client ID: BFB

Instrument: 10airD.i

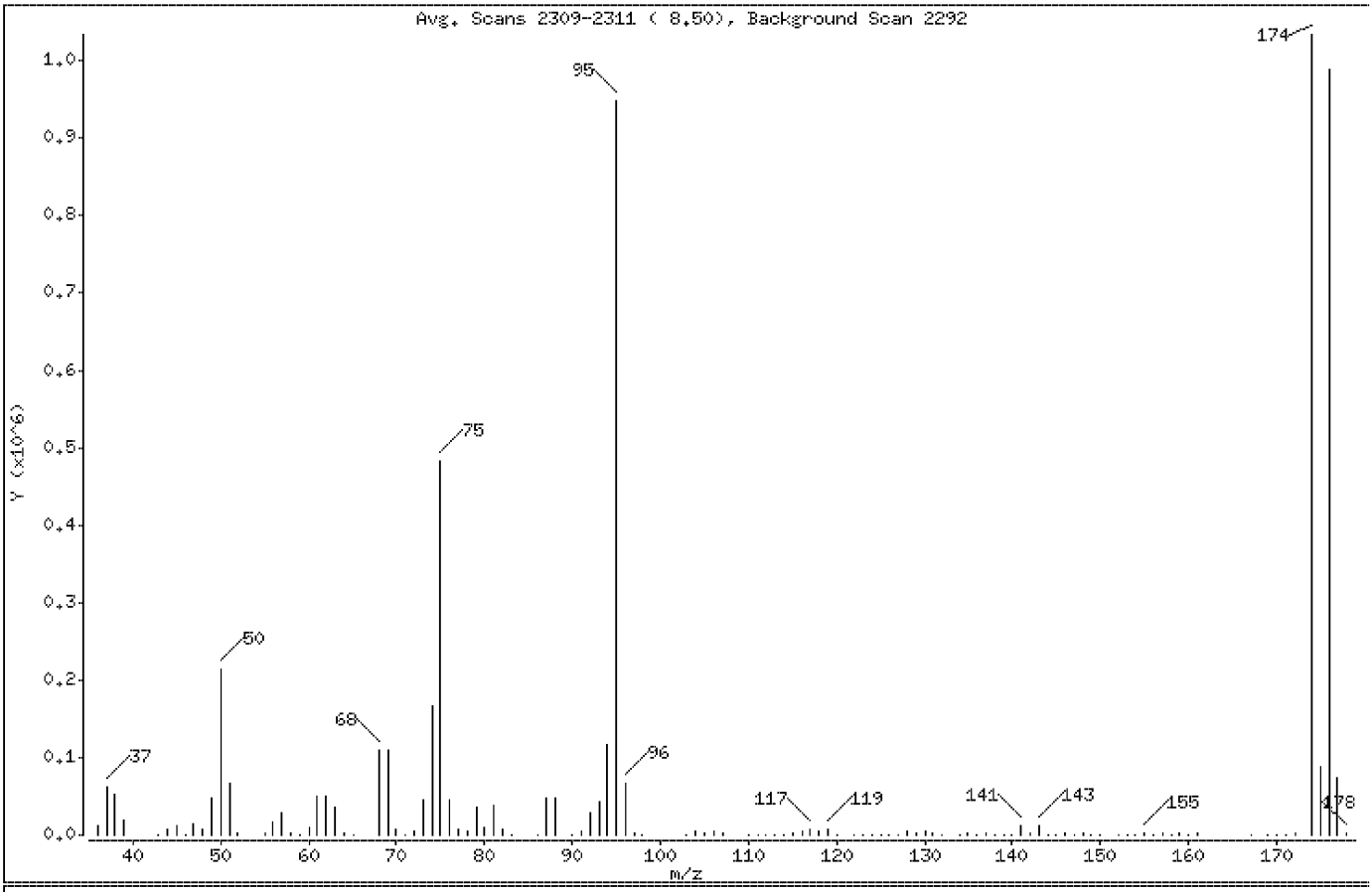
Sample Info:

Operator: EMC

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.69
75	30.00 - 66.00% of mass 95	50.93
96	5.00 - 9.00% of mass 95	6.95
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	109.15
175	4.00 - 9.00% of mass 174	9.25 (8.47)
176	93.00 - 101.00% of mass 174	104.38 (95.63)
177	5.00 - 9.00% of mass 176	7.72 (7.40)

Date : 09-MAR-2017 16:21

Client ID: BFB Instrument: 10airD.i

Sample Info:

Operator: EMC

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06814.D
Spectrum: Avg. Scans 2309-2311 (8.50), Background Scan 2292
Location of Maximum: 174.00
Number of points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	12463	73.00	44896	112.00	687	144.00	676
37.00	61936	74.00	167104	113.00	1053	145.00	1035
38.00	53120	75.00	482368	114.00	93	146.00	2054
39.00	20096	76.00	44136	115.00	1192	147.00	969
43.00	597	77.00	6347	116.00	4123	148.00	2586
44.00	6477	78.00	5049	117.00	6645	149.00	799
45.00	10695	79.00	36168	118.00	4365	150.00	969
46.00	991	80.00	8756	119.00	6090	152.00	520
47.00	13306	81.00	37512	120.00	283	153.00	772
48.00	6620	82.00	7481	122.00	192	154.00	683
49.00	46872	83.00	879	123.00	362	155.00	2828
50.00	214912	86.00	391	124.00	1078	156.00	367
51.00	67408	87.00	48128	125.00	435	157.00	2225
52.00	2394	88.00	46912	126.00	618	158.00	181
55.00	2949	90.00	108	127.00	221	159.00	1399
56.00	17240	91.00	4579	128.00	4146	160.00	90
57.00	28952	92.00	29392	129.00	2191	161.00	1418
58.00	1306	93.00	42616	130.00	3970	167.00	109
59.00	76	94.00	117472	131.00	1557	169.00	457
60.00	10205	95.00	947136	132.00	73	170.00	733
61.00	48976	96.00	65840	134.00	385	171.00	425
62.00	49736	97.00	1821	135.00	2541	172.00	1268
63.00	36192	98.00	81	136.00	350	174.00	1033792
64.00	3031	103.00	448	137.00	2105	175.00	87608
65.00	525	104.00	5032	138.00	97	176.00	988608
68.00	109848	105.00	1902	139.00	447	177.00	73136
69.00	108272	106.00	5157	140.00	407	178.00	2570
70.00	7632	107.00	1260	141.00	11638		
71.00	333	110.00	761	142.00	1998		
72.00	5232	111.00	866	143.00	12383		

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06901.D

Date : 10-MAR-2017 14:22

Client ID: BFB

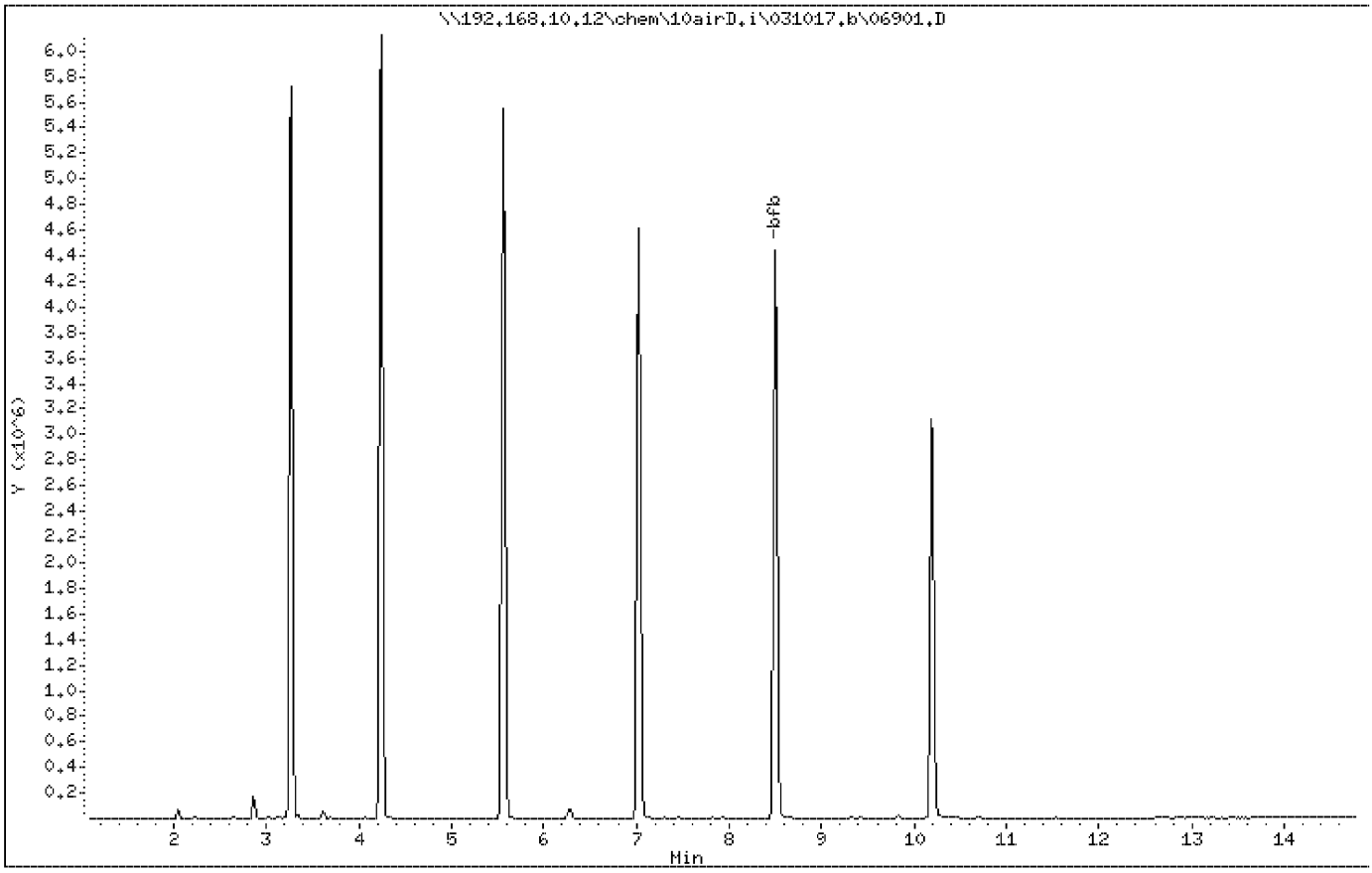
Instrument: 10airD.i

Sample Info:

Operator: EMC

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031017.b\06901.D

Date : 10-MAR-2017 14:22

Client ID: BFB

Instrument: 10airD.i

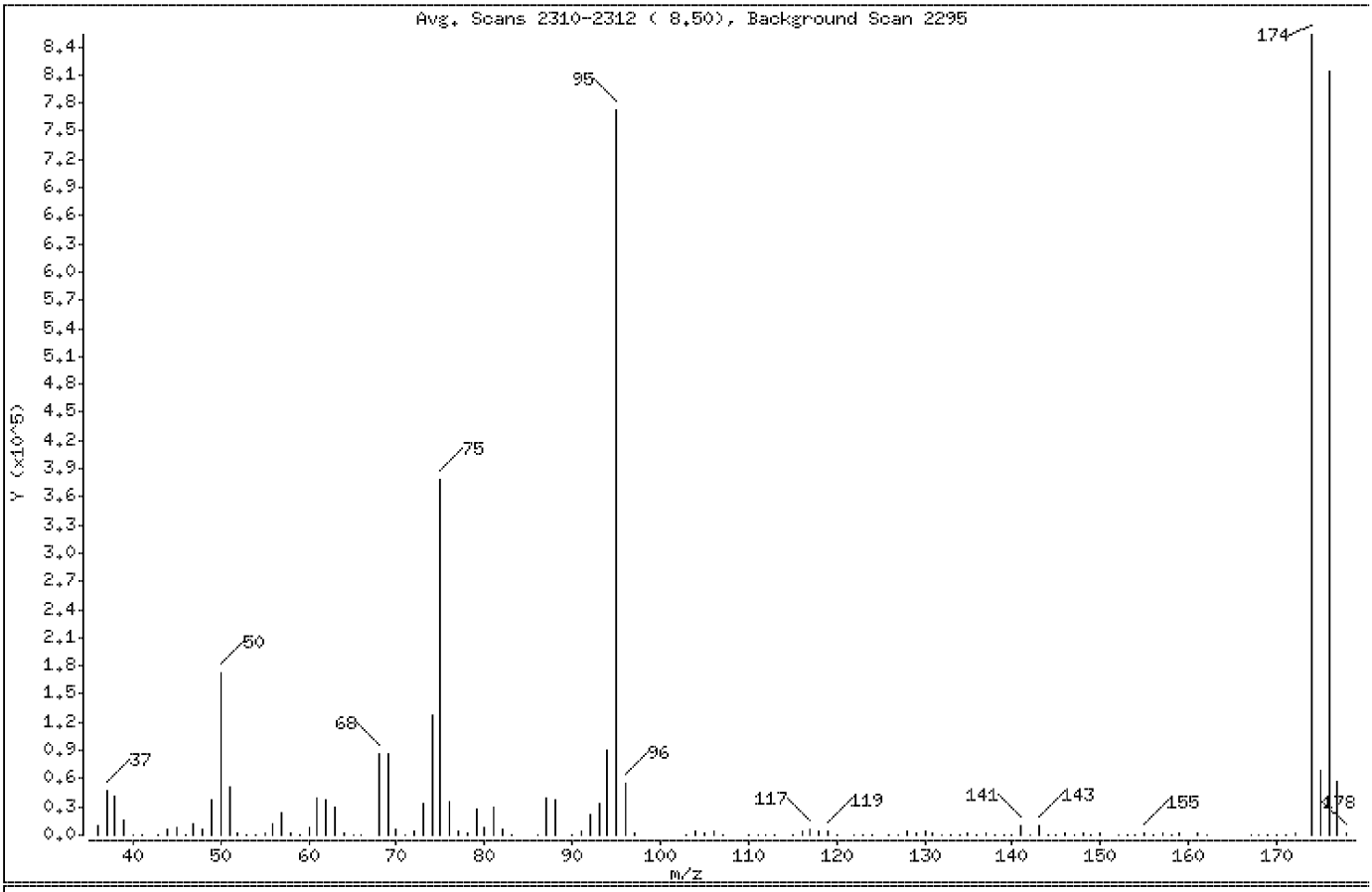
Sample Info:

Operator: EMC

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.22
75	30.00 - 66.00% of mass 95	48.99
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	110.34
175	4.00 - 9.00% of mass 174	8.91 (8.08)
176	93.00 - 101.00% of mass 174	105.37 (95.50)
177	5.00 - 9.00% of mass 176	7.38 (7.00)

Date : 10-MAR-2017 14:22

Client ID: BFB Instrument: 10airD.i

Sample Info:

Operator: EMC

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06901.D
Spectrum: Avg. Scans 2310-2312 (8.50), Background Scan 2295
Location of Maximum: 174.00
Number of points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9197	69.00	86016	110.00	499	144.00	633
37.00	47440	70.00	5590	111.00	546	145.00	817
38.00	41568	71.00	303	112.00	540	146.00	1699
39.00	16156	72.00	4629	113.00	962	147.00	742
40.00	380	73.00	32768	115.00	776	148.00	2273
41.00	111	74.00	127304	116.00	3423	149.00	515
43.00	626	75.00	378624	117.00	5227	150.00	989
44.00	4988	76.00	34336	118.00	3055	152.00	670
45.00	8761	77.00	4716	119.00	4311	153.00	861
46.00	432	78.00	2594	120.00	196	154.00	582
47.00	11738	79.00	28152	122.00	178	155.00	2298
48.00	5607	80.00	7714	123.00	327	156.00	334
49.00	37832	81.00	29720	124.00	913	157.00	1640
50.00	171712	82.00	5839	126.00	444	158.00	90
51.00	50536	83.00	632	127.00	363	159.00	1216
52.00	2108	86.00	433	128.00	3172	161.00	1013
53.00	69	87.00	39536	129.00	1094	162.00	71
54.00	179	88.00	36648	130.00	3657	167.00	126
55.00	2744	90.00	70	131.00	1161	168.00	73
56.00	12625	91.00	3355	132.00	95	169.00	190
57.00	24080	92.00	21200	133.00	113	170.00	300
58.00	1059	93.00	32968	134.00	141	171.00	894
59.00	249	94.00	90848	135.00	1794	172.00	1273
60.00	8339	95.00	772864	136.00	326	174.00	852800
61.00	38576	96.00	54096	137.00	1619	175.00	68888
62.00	36760	97.00	1563	138.00	200	176.00	814400
63.00	28456	103.00	501	139.00	618	177.00	57048
64.00	2604	104.00	3816	140.00	246	178.00	1420
65.00	471	105.00	1620	141.00	9154		
66.00	77	106.00	3747	142.00	841		
68.00	86088	107.00	926	143.00	10127		

Data File: \\192.168.10.12\chem\10AIRD.i\031117.b\07002BFB.D

Date : 11-MAR-2017 10:37

Client ID: BFB

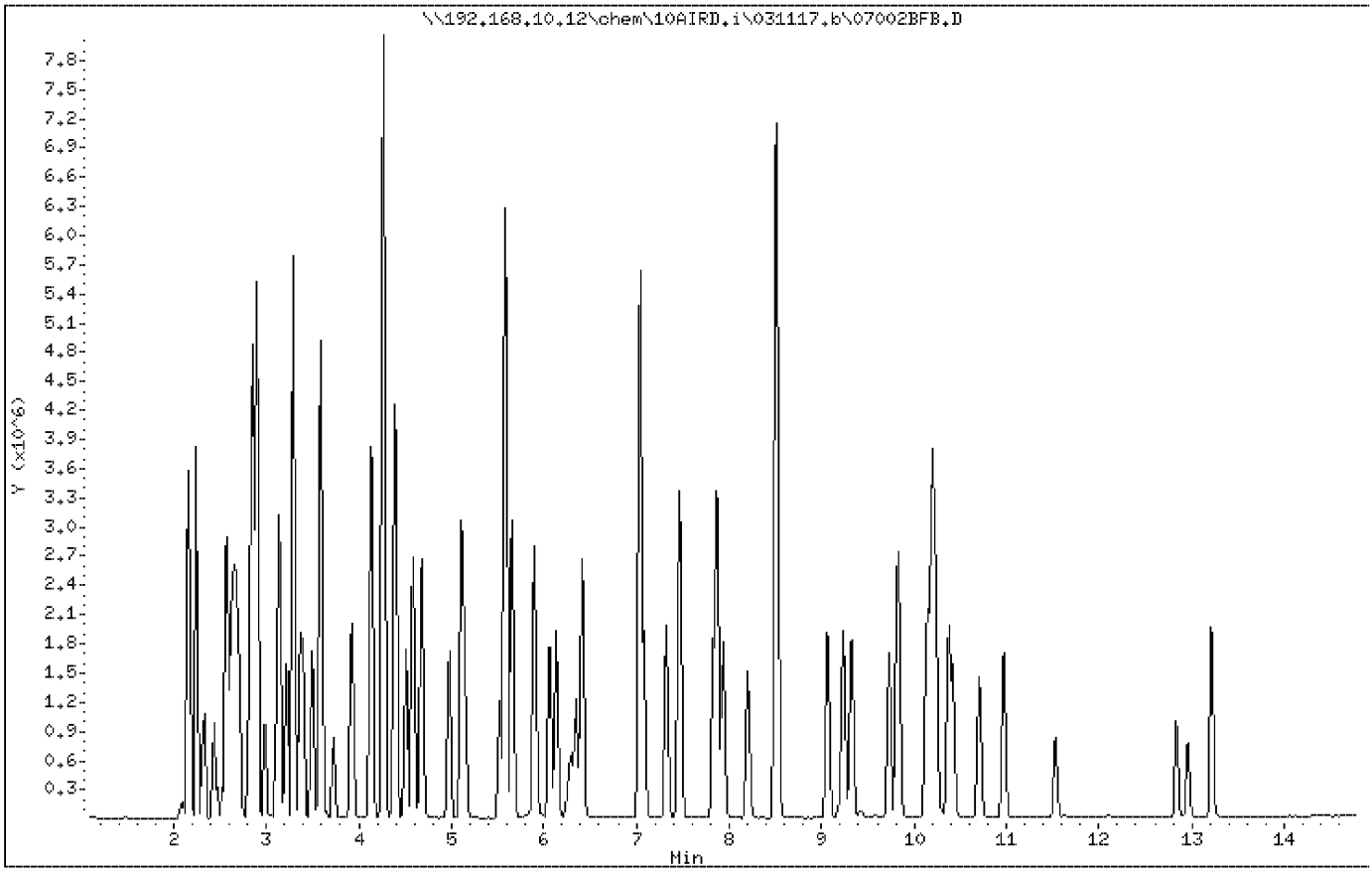
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10AIRD.i\031117.b\07002BFB.D

Date : 11-MAR-2017 10:37

Client ID: BFB

Instrument: 10airD.i

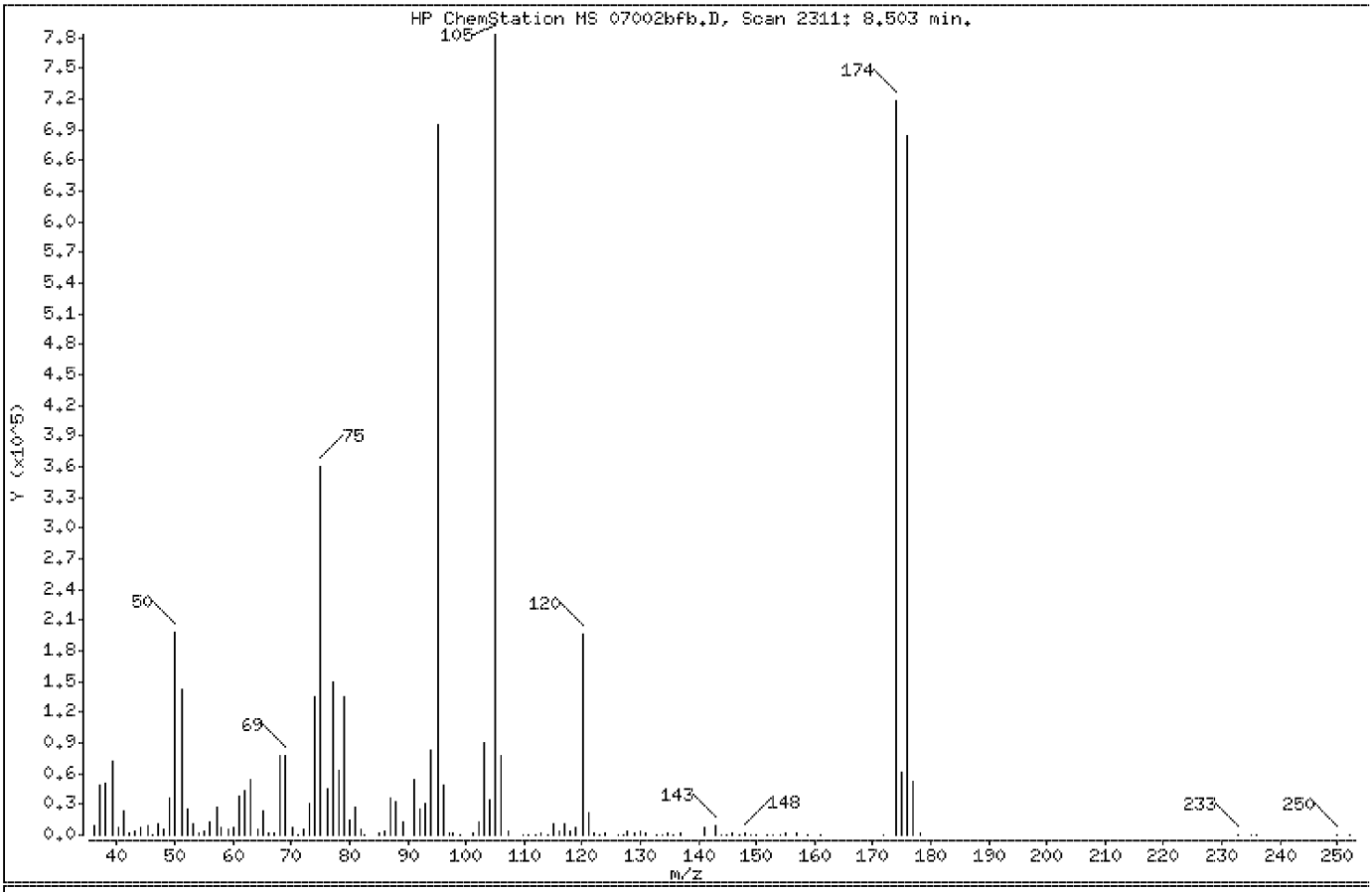
Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	28.58
75	30.00 - 66.00% of mass 95	51.71
96	5.00 - 9.00% of mass 95	7.09
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	103.35
175	4.00 - 9.00% of mass 174	8.72 (8.43)
176	93.00 - 101.00% of mass 174	98.39 (95.20)
177	5.00 - 9.00% of mass 176	7.40 (7.52)

Date : 11-MAR-2017 10:37

Client ID: BFB Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 07002BFB.D
Spectrum: HP ChemStation MS 07002bfb.D, Scan 2311: 8.503 min.
Location of Maximum: 105.10
Number of points: 122

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	9495	67.00	2014	101.10	1903	135.80	226
37.10	48152	68.10	76968	102.10	12615	137.00	1258
38.10	50960	69.10	77384	103.10	89128	141.00	7125
39.10	71952	70.10	6302	104.10	34504	142.90	8112
40.10	6550	71.30	549	105.10	783040	143.90	479
41.10	22768	72.10	4739	106.10	77864	145.00	699
42.10	1811	73.10	30720	107.10	4096	145.90	1287
43.10	3238	74.10	135552	109.80	623	147.00	841
44.10	6473	75.10	359360	110.80	585	147.90	2472
45.10	8724	76.10	44536	111.90	715	148.90	643
46.20	733	77.10	149568	112.90	930	150.00	813
47.10	10719	78.10	63192	114.10	576	152.00	349
48.10	4847	79.10	135104	115.10	10881	152.90	785
49.10	36648	80.10	15258	116.00	3660	154.00	384
50.10	198592	81.00	27624	117.00	10626	155.00	1829
51.10	142016	82.00	5520	118.00	4370	157.00	1350
52.10	24960	82.70	748	119.00	7922	158.90	767
53.10	11336	85.00	972	120.10	195392	161.00	679
54.10	1425	86.10	3601	121.10	20704	171.80	844
55.10	2745	87.00	36672	122.10	1023	174.00	718208
56.10	12471	88.00	32384	123.00	355	175.00	60568
57.10	26768	89.10	12489	123.90	922	176.00	683712
57.80	6684	91.10	54568	126.10	307	177.00	51440
59.10	5828	92.10	25792	127.10	209	178.00	1459
60.00	7402	93.10	30152	127.90	2883	233.00	242
61.10	37912	94.10	82952	129.00	1371	235.00	282
62.10	43344	95.10	694912	129.90	2978	236.10	201
63.10	54368	96.10	49248	130.90	1185	249.80	368
64.10	6285	97.10	2203	132.80	203	252.10	267
65.10	23512	97.90	1421	133.80	473		
66.10	2465	99.10	658	134.90	1494		

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07101BFB.D

Date : 12-MAR-2017 09:41

Client ID: BFB

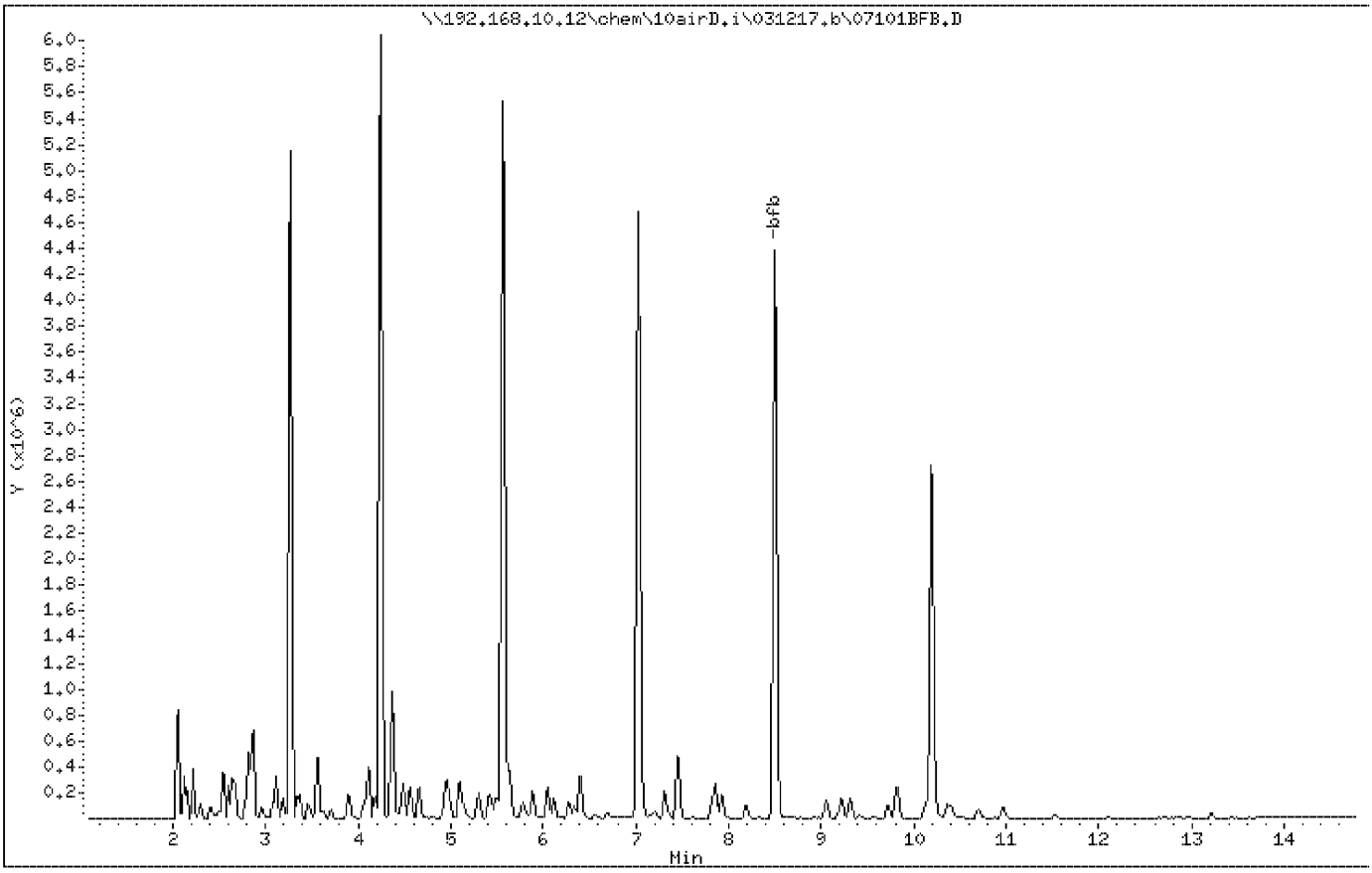
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031217.b\07101BFB.D

Date : 12-MAR-2017 09:41

Client ID: BFB

Instrument: 10airD.i

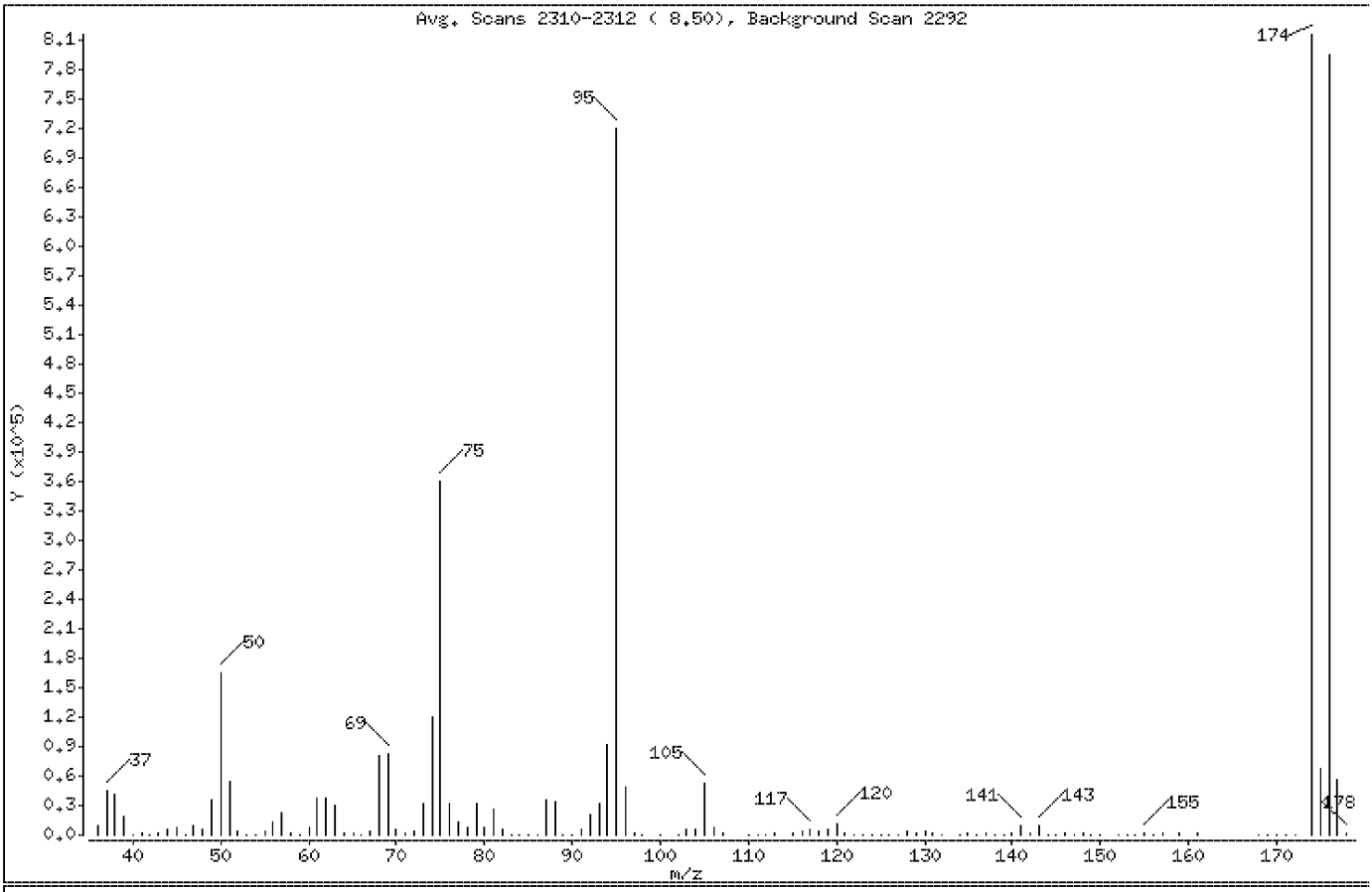
Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.91
75	30.00 - 66.00% of mass 95	50.04
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	113.23
175	4.00 - 9.00% of mass 174	9.31 (8.22)
176	93.00 - 101.00% of mass 174	110.42 (97.52)
177	5.00 - 9.00% of mass 176	7.68 (6.96)

Date : 12-MAR-2017 09:41

Client ID: BFB Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 07101BFB.D
Spectrum: Avg. Scans 2310-2312 (8.50), Background Scan 2292
Location of Maximum: 174.00
Number of points: 127

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9556	68.00	80968	102.00	601	138.00	82
37.00	44808	69.00	81528	103.00	6135	139.00	424
38.00	40568	70.00	6096	104.00	4919	140.00	1015
39.00	17880	71.00	1285	105.00	51536	141.00	10009
40.00	559	72.00	3578	106.00	7450	142.00	1530
41.00	2034	73.00	31328	107.00	1092	143.00	9285
42.00	457	74.00	120368	110.00	599	144.00	696
43.00	1584	75.00	360192	111.00	831	145.00	858
44.00	5202	76.00	31160	112.00	753	146.00	1328
45.00	8105	77.00	12710	113.00	943	147.00	631
46.00	454	78.00	7173	115.00	1615	148.00	2202
47.00	10088	79.00	32680	116.00	3373	149.00	468
48.00	4892	80.00	8324	117.00	5987	150.00	895
49.00	35512	81.00	26912	118.00	3143	152.00	564
50.00	164928	82.00	5222	119.00	4780	153.00	394
51.00	53808	83.00	530	120.00	11089	154.00	641
52.00	3156	84.00	161	121.00	1228	155.00	2453
53.00	689	85.00	249	122.00	293	156.00	448
54.00	382	86.00	739	123.00	289	157.00	1682
55.00	2984	87.00	34960	124.00	548	159.00	1218
56.00	13077	88.00	33840	125.00	448	161.00	1261
57.00	22984	89.00	244	126.00	458	168.00	76
58.00	1046	90.00	217	127.00	277	169.00	164
59.00	448	91.00	6112	128.00	2841	170.00	370
60.00	7415	92.00	20840	129.00	1642	171.00	436
61.00	36552	93.00	32128	130.00	3425	172.00	526
62.00	36544	94.00	91560	131.00	1466	174.00	814976
63.00	29216	95.00	719744	132.00	189	175.00	67016
64.00	2554	96.00	48416	134.00	158	176.00	794752
65.00	1583	97.00	1398	135.00	1733	177.00	55304
66.00	164	98.00	186	136.00	312	178.00	1754
67.00	2844	100.00	82	137.00	1370		

Data File: \\192.168.10.12\chem\10airD.i\031317.b\07201.D

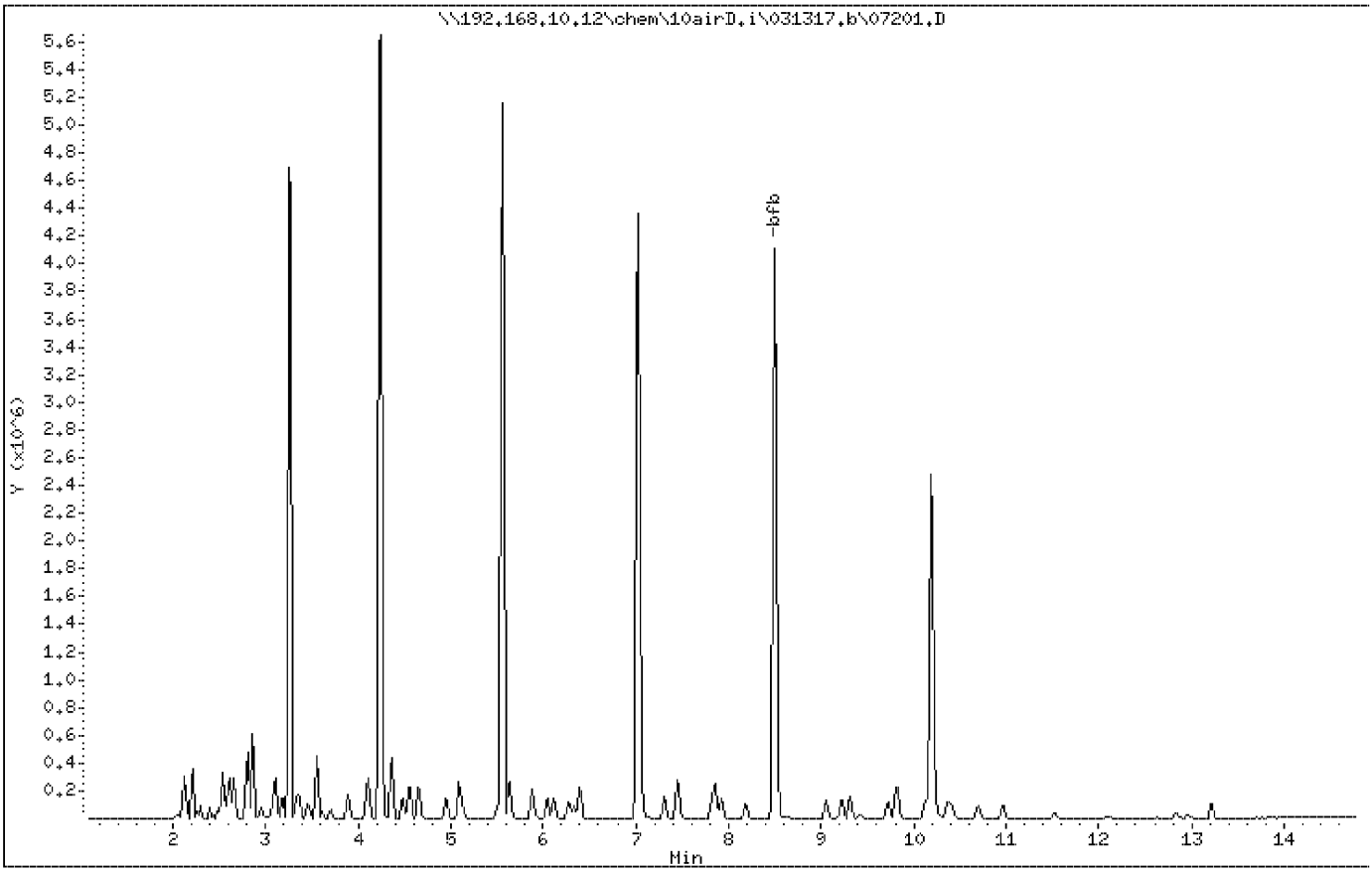
Date : 13-MAR-2017 07:38

Client ID: BFB Instrument: 10airD.i

Sample Info:

Operator: EMC

Column phase: J&W DB-5 Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031317.b\07201.D

Date : 13-MAR-2017 07:38

Client ID: BFB

Instrument: 10airD.i

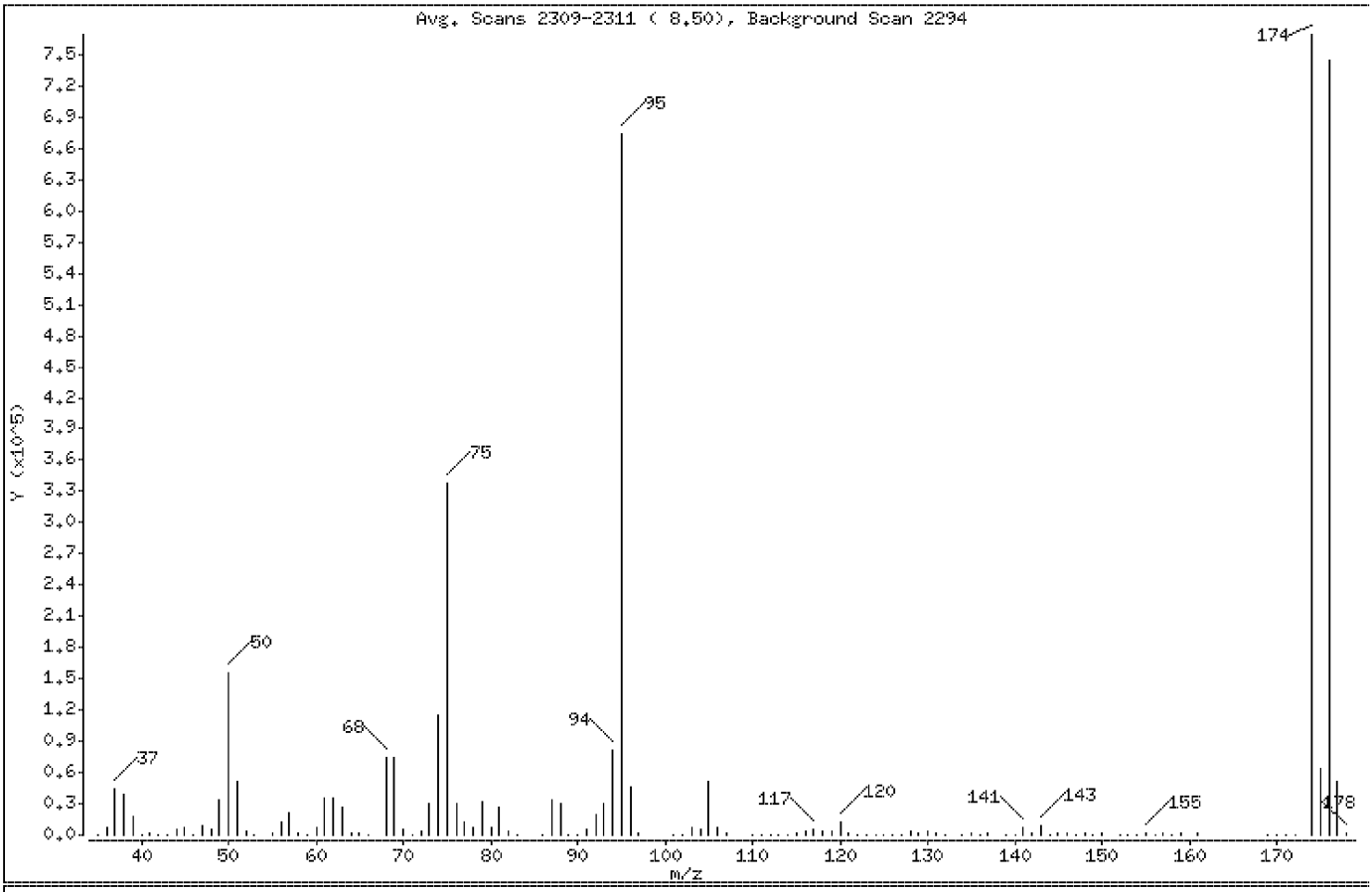
Sample Info:

Operator: EMC

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.06
75	30.00 - 66.00% of mass 95	50.10
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	114.14
175	4.00 - 9.00% of mass 174	9.34 (8.18)
176	93.00 - 101.00% of mass 174	110.53 (96.84)
177	5.00 - 9.00% of mass 176	7.66 (6.93)

Date : 13-MAR-2017 07:38

Client ID: BFB Instrument: 10airD.i

Sample Info:

Operator: EMC

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 07201.D
Spectrum: Avg. Scans 2309-2311 (8.50), Background Scan 2294
Location of Maximum: 174.00
Number of points: 123

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	82	68.00	74904	104.00	4675	139.00	487
36.00	7628	69.00	73680	105.00	51496	140.00	349
37.00	44376	70.00	5999	106.00	7678	141.00	7947
38.00	38296	71.00	184	107.00	929	142.00	1366
39.00	16928	72.00	4021	110.00	451	143.00	8929
40.00	420	73.00	30088	111.00	711	144.00	684
41.00	1420	74.00	115768	112.00	598	145.00	1089
42.00	163	75.00	337664	113.00	641	146.00	1344
43.00	454	76.00	29688	114.00	124	147.00	650
44.00	4970	77.00	12792	115.00	1932	148.00	2237
45.00	7292	78.00	7094	116.00	2767	149.00	683
46.00	586	79.00	32592	117.00	5107	150.00	903
47.00	8714	80.00	7283	118.00	2813	152.00	207
48.00	5541	81.00	26312	119.00	4228	153.00	793
49.00	33480	82.00	4272	120.00	11930	154.00	599
50.00	155392	83.00	526	121.00	1301	155.00	1992
51.00	50848	86.00	407	122.00	118	156.00	313
52.00	3591	87.00	32968	123.00	141	157.00	1417
53.00	532	88.00	30920	124.00	432	158.00	97
55.00	2248	89.00	322	125.00	186	159.00	1356
56.00	11718	90.00	177	126.00	267	161.00	997
57.00	20672	91.00	5985	127.00	91	169.00	209
58.00	1441	92.00	19856	128.00	2731	170.00	254
59.00	339	93.00	29480	129.00	1427	171.00	685
60.00	7724	94.00	81176	130.00	2919	172.00	842
61.00	34608	95.00	673984	131.00	1124	174.00	769280
62.00	34704	96.00	45600	132.00	85	175.00	62928
63.00	26472	97.00	1202	134.00	95	176.00	744960
64.00	2061	101.00	87	135.00	1539	177.00	51656
65.00	2218	102.00	817	136.00	245	178.00	1638
66.00	376	103.00	6458	137.00	1449		

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10380372001	**VP-102_8.5_20170226**	TO-15	463555		
10380372002	**VP-102_19.5_20170226**	TO-15	463555		
10380372003	**VP-102_51.5_20170226**	TO-15	463555		
10380372004	**VP-102_57.5_20170226**	TO-15	463555		
10380372005	**VP-102_61.5_20170226**	TO-15	463555		
10380372006	**VP-102_73.5_20170226**	TO-15	463555		
10380372007	**VP-103_5_20170226**	TO-15	463555		
10380372008	**VP-103_10_20170226**	TO-15	463555		
10380372009	**VP-103_20_20170226**	TO-15	463593		
10380372010	**VP-103_30_20170226**	TO-15	463593		
10380372011	**VP-103_40_20170226**	TO-15	463593		
10380372012	**VP-103_50_20170226**	TO-15	463593		
10380372013	**VP-103_61.5_20170226**	TO-15	463593		
10380372014	**VP-103_74.5_20170226**	TO-15	463593		
10380372015	**LIJ-VP-7_5_20170226**	TO-15	463593		
10380372016	**LIJ-VP-7_10_20170226**	TO-15	463593		
10380372017	**LIJ-VP-7_20_20170226**	TO-15	463593		
10380372018	**LIJ-VP-7_40_20170226**	TO-15	463593		
10380372019	**LIJ-VP-7_50_20170226**	TO-15	463593		
10380372020	**LIJ-VP-7_50_20170226DUP**	TO-15	463593		
10380372021	**VP-102_73.5_20170226DUP**	TO-15	463593		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

QC Batch: 463555 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10380372001, 10380372002, 10380372003, 10380372004, 10380372005, 10380372006, 10380372007, 10380372008

METHOD BLANK: 2534383 Matrix: Air
Associated Lab Samples: 10380372001, 10380372002, 10380372003, 10380372004, 10380372005, 10380372006, 10380372007, 10380372008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.25U	1.1	0.25	03/10/17 16:11	
1,1,2,2-Tetrachloroethane	ug/m3	0.33U	0.70	0.33	03/10/17 16:11	
1,1,2-Trichloroethane	ug/m3	0.25U	0.55	0.25	03/10/17 16:11	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.30U	1.6	0.30	03/10/17 16:11	
1,1-Dichloroethane	ug/m3	0.16U	0.82	0.16	03/10/17 16:11	
1,1-Dichloroethene	ug/m3	0.24U	0.81	0.24	03/10/17 16:11	
1,2,4-Trichlorobenzene	ug/m3	0.91U	3.8	0.91	03/10/17 16:11	
1,2,4-Trimethylbenzene	ug/m3	0.12U	1.0	0.12	03/10/17 16:11	
1,2-Dibromo-3-chloropropane	ug/m3	4.9U	4.9	4.9	03/10/17 16:11	
1,2-Dibromoethane (EDB)	ug/m3	0.77U	1.6	0.77	03/10/17 16:11	
1,2-Dichlorobenzene	ug/m3	0.51U	1.2	0.51	03/10/17 16:11	
1,2-Dichloroethane	ug/m3	0.20U	0.41	0.20	03/10/17 16:11	
1,2-Dichloropropane	ug/m3	0.27U	0.94	0.27	03/10/17 16:11	
1,3,5-Trimethylbenzene	ug/m3	0.18U	1.0	0.18	03/10/17 16:11	
1,3-Butadiene	ug/m3	0.18U	0.45	0.18	03/10/17 16:11	
1,3-Dichlorobenzene	ug/m3	0.53U	1.2	0.53	03/10/17 16:11	
1,4-Dichlorobenzene	ug/m3	0.50U	1.2	0.50	03/10/17 16:11	
1,4-Dioxane (p-Dioxane)	ug/m3	0.35U	3.7	0.35	03/10/17 16:11	
2-Butanone (MEK)	ug/m3	0.23U	3.0	0.23	03/10/17 16:11	
2-Hexanone	ug/m3	0.41U	4.2	0.41	03/10/17 16:11	
2-Propanol	ug/m3	0.24U	2.5	0.24	03/10/17 16:11	
4-Ethyltoluene	ug/m3	0.19U	1.0	0.19	03/10/17 16:11	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.22U	4.2	0.22	03/10/17 16:11	
Acetone	ug/m3	0.83U	6.0	0.83	03/10/17 16:11	
Allyl chloride	ug/m3	0.23U	1.6	0.23	03/10/17 16:11	
Benzene	ug/m3	0.12U	0.32	0.12	03/10/17 16:11	
Bromodichloromethane	ug/m3	0.19U	1.4	0.19	03/10/17 16:11	
Bromoform	ug/m3	0.90U	5.3	0.90	03/10/17 16:11	
Bromomethane	ug/m3	0.31U	0.79	0.31	03/10/17 16:11	
Carbon disulfide	ug/m3	0.10U	0.63	0.10	03/10/17 16:11	
Carbon tetrachloride	ug/m3	0.19U	0.64	0.19	03/10/17 16:11	
Chlorobenzene	ug/m3	0.13U	0.94	0.13	03/10/17 16:11	
Chlorodifluoromethane	ug/m3	0.28U	0.72	0.28	03/10/17 16:11	
Chloroethane	ug/m3	0.19U	0.54	0.19	03/10/17 16:11	
Chloroform	ug/m3	0.19U	0.50	0.19	03/10/17 16:11	
Chloromethane	ug/m3	0.11U	0.42	0.11	03/10/17 16:11	
Chloropentafluoroethane	ug/m3	3.2U	3.2	3.2	03/10/17 16:11	
cis-1,2-Dichloroethene	ug/m3	0.25U	0.81	0.25	03/10/17 16:11	
cis-1,3-Dichloropropene	ug/m3	0.37U	0.92	0.37	03/10/17 16:11	
Cyclohexane	ug/m3	0.32U	0.70	0.32	03/10/17 16:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

METHOD BLANK: 2534383 Matrix: Air

Associated Lab Samples: 10380372001, 10380372002, 10380372003, 10380372004, 10380372005, 10380372006, 10380372007, 10380372008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/m3	0.86U	1.7	0.86	03/10/17 16:11	
Dichlorodifluoromethane	ug/m3	0.48U	1.0	0.48	03/10/17 16:11	
Dichlorotetrafluoroethane	ug/m3	0.31U	1.4	0.31	03/10/17 16:11	
Ethylbenzene	ug/m3	0.42U	0.88	0.42	03/10/17 16:11	
Freon 123	ug/m3	3.2U	3.2	3.2	03/10/17 16:11	
Hexachloro-1,3-butadiene	ug/m3	0.65U	2.2	0.65	03/10/17 16:11	
Isopropylbenzene (Cumene)	ug/m3	0.14U	2.5	0.14	03/10/17 16:11	
m&p-Xylene	ug/m3	0.79U	1.8	0.79	03/10/17 16:11	
Methyl acetate	ug/m3	1.5U	1.5	1.5	03/10/17 16:11	
Methyl-tert-butyl ether	ug/m3	0.30U	3.7	0.30	03/10/17 16:11	
Methylcyclohexane	ug/m3	0.24U	0.82	0.24	03/10/17 16:11	
Methylene Chloride	ug/m3	0.54U	3.5	0.54	03/10/17 16:11	
n-Hexane	ug/m3	0.36U	0.72	0.36	03/10/17 16:11	
o-Xylene	ug/m3	0.35U	0.88	0.35	03/10/17 16:11	
Styrene	ug/m3	0.19U	0.87	0.19	03/10/17 16:11	
Tetrachloroethene	ug/m3	0.28U	0.69	0.28	03/10/17 16:11	
Toluene	ug/m3	0.15U	0.77	0.15	03/10/17 16:11	
trans-1,2-Dichloroethene	ug/m3	0.38U	0.81	0.38	03/10/17 16:11	
trans-1,3-Dichloropropene	ug/m3	0.26U	0.92	0.26	03/10/17 16:11	
Trichloroethene	ug/m3	0.28U	0.55	0.28	03/10/17 16:11	
Trichlorofluoromethane	ug/m3	0.13U	1.1	0.13	03/10/17 16:11	
Vinyl chloride	ug/m3	0.20U	0.26	0.20	03/10/17 16:11	

LABORATORY CONTROL SAMPLE: 2534384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	60.7	109	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.4	109	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	57.8	104	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	81.7	105	75-128	
1,1-Dichloroethane	ug/m3	41.1	42.9	104	75-127	
1,1-Dichloroethene	ug/m3	40.3	42.1	105	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	117	155	60-150	CH,L1,SS
1,2,4-Trimethylbenzene	ug/m3	50	55.4	111	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	153	156		2M,CH
1,2-Dibromoethane (EDB)	ug/m3	78.1	86.3	111	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	66.5	109	75-139	
1,2-Dichloroethane	ug/m3	41.1	43.9	107	75-130	
1,2-Dichloropropane	ug/m3	47	48.8	104	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	55.3	111	75-133	
1,3-Butadiene	ug/m3	22.5	23.6	105	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	67.5	110	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	63.5	104	75-139	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

LABORATORY CONTROL SAMPLE: 2534384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	48.5	132	65-149	CH
2-Butanone (MEK)	ug/m3	30	31.8	106	75-128	
2-Hexanone	ug/m3	104	115	111	75-138	
2-Propanol	ug/m3	125	162	129	75-127	L1
4-Ethyltoluene	ug/m3	50	56.5	113	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	113	108	75-130	
Acetone	ug/m3	121	135	112	64-129	
Allyl chloride	ug/m3	79.5	94.5	119	60-147	
Benzene	ug/m3	32.5	34.3	106	75-129	
Bromodichloromethane	ug/m3	68.1	75.6	111	75-134	
Bromoform	ug/m3	105	116	111	75-150	
Bromomethane	ug/m3	39.5	41.1	104	75-127	
Carbon disulfide	ug/m3	31.6	33.4	106	75-134	
Carbon tetrachloride	ug/m3	64	75.4	118	68-150	
Chlorobenzene	ug/m3	46.8	50.6	108	75-132	
Chlorodifluoromethane	ug/m3	36	39.1	109	67-134	
Chloroethane	ug/m3	26.8	28.8	107	75-132	
Chloroform	ug/m3	49.6	54.3	109	75-125	
Chloromethane	ug/m3	21	21.6	103	75-126	
Chloropentafluoroethane	ug/m3	64.2	106	165		2M,CH
cis-1,2-Dichloroethene	ug/m3	40.3	45.5	113	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	51.6	112	75-137	
Cyclohexane	ug/m3	35	34.2	98	75-126	
Dibromochloromethane	ug/m3	86.6	106	122	75-144	
Dichlorodifluoromethane	ug/m3	50.3	54.6	109	75-129	
Dichlorotetrafluoroethane	ug/m3	71	75.1	106	75-125	
Ethylbenzene	ug/m3	44.1	46.6	106	75-134	
Freon 123	ug/m3	63.6	66.4	104		2M
Hexachloro-1,3-butadiene	ug/m3	108	141	130	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	51.4	103	75-140	
m&p-Xylene	ug/m3	88.3	99.8	113	75-129	
Methyl acetate	ug/m3	30.8	35.7	116		2M
Methyl-tert-butyl ether	ug/m3	91.6	101	111	66-148	
Methylcyclohexane	ug/m3	40.8	41.0	100	73-137	
Methylene Chloride	ug/m3	177	190	108	67-133	
n-Hexane	ug/m3	35.8	36.6	102	67-132	
o-Xylene	ug/m3	44.1	44.7	101	75-129	
Styrene	ug/m3	43.3	49.8	115	75-139	
Tetrachloroethene	ug/m3	68.9	72.5	105	75-129	
Toluene	ug/m3	38.3	40.1	105	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	45.5	113	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	49.1	106	75-142	
Trichloroethene	ug/m3	54.6	56.7	104	75-128	
Trichlorofluoromethane	ug/m3	57.1	60.2	105	75-127	
Vinyl chloride	ug/m3	26	26.8	103	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

SAMPLE DUPLICATE: 2534983

Parameter	Units	10380372002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.45U	0.45U		25	
1,1,2,2-Tetrachloroethane	ug/m3	0.60U	0.60U		25	
1,1,2-Trichloroethane	ug/m3	0.45U	0.45U		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.99J	0.55U		25	
1,1-Dichloroethane	ug/m3	0.29U	0.29U		25	
1,1-Dichloroethene	ug/m3	0.44U	0.44U		25	
1,2,4-Trichlorobenzene	ug/m3	1.7U	1.7U		25	
1,2,4-Trimethylbenzene	ug/m3	0.83J	0.74J		25	
1,2-Dibromo-3-chloropropane	ug/m3	9.0U	9.0U		25	
1,2-Dibromoethane (EDB)	ug/m3	1.4U	1.4U		25	
1,2-Dichlorobenzene	ug/m3	0.94U	0.94U		25	
1,2-Dichloroethane	ug/m3	0.38U	0.38U		25	
1,2-Dichloropropane	ug/m3	0.49U	0.49U		25	
1,3,5-Trimethylbenzene	ug/m3	0.33U	0.33U		25	
1,3-Butadiene	ug/m3	0.32U	0.32U		25	
1,3-Dichlorobenzene	ug/m3	0.97U	0.97U		25	
1,4-Dichlorobenzene	ug/m3	0.91U	0.91U		25	
1,4-Dioxane (p-Dioxane)	ug/m3	0.64U	0.64U		25	
2-Butanone (MEK)	ug/m3	0.99J	0.94J		25	
2-Hexanone	ug/m3	0.75U	0.75U		25	
2-Propanol	ug/m3	11.6	10.1	14	25	L1
4-Ethyltoluene	ug/m3	0.34U	0.34U		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.40U	0.40U		25	
Acetone	ug/m3	4.2J	4.1J		25	
Allyl chloride	ug/m3	0.42U	0.42U		25	
Benzene	ug/m3	0.22U	0.40J		25	
Bromodichloromethane	ug/m3	0.36U	0.36U		25	
Bromoform	ug/m3	1.6U	1.6U		25	
Bromomethane	ug/m3	0.57U	0.57U		25	
Carbon disulfide	ug/m3	0.18U	0.18U		25	
Carbon tetrachloride	ug/m3	0.54J	0.55J		25	
Chlorobenzene	ug/m3	0.25U	0.25U		25	
Chlorodifluoromethane	ug/m3	32.2	33.2	3	25	
Chloroethane	ug/m3	0.36U	0.36U		25	
Chloroform	ug/m3	0.35U	0.35U		25	
Chloromethane	ug/m3	0.20U	0.20U		25	
Chloropentafluoroethane	ug/m3	10.4	5.9U		25	
cis-1,2-Dichloroethene	ug/m3	0.45U	0.45U		25	
cis-1,3-Dichloropropene	ug/m3	0.68U	0.68U		25	
Cyclohexane	ug/m3	0.58U	0.58U		25	
Dibromochloromethane	ug/m3	1.6U	1.6U		25	
Dichlorodifluoromethane	ug/m3	2.8	2.8	2	25	
Dichlorotetrafluoroethane	ug/m3	0.57U	0.57U		25	
Ethylbenzene	ug/m3	0.78U	0.85J		25	
Freon 123	ug/m3	5.8U	5.8U		25	
Hexachloro-1,3-butadiene	ug/m3	1.2U	1.2U		25	
Isopropylbenzene (Cumene)	ug/m3	0.26J	0.25U		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

SAMPLE DUPLICATE: 2534983

Parameter	Units	10380372002 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	2.0J	2.0J		25	
Methyl acetate	ug/m3	2.8U	2.8U		25	
Methyl-tert-butyl ether	ug/m3	0.55U	0.55U		25	
Methylcyclohexane	ug/m3	0.44U	0.44U		25	
Methylene Chloride	ug/m3	7.3	7.0	4	25	
n-Hexane	ug/m3	1.1J	1.1J		25	
o-Xylene	ug/m3	0.87J	0.93J		25	
Styrene	ug/m3	0.35U	0.35U		25	
Tetrachloroethene	ug/m3	3.1	3.1	3	25	
Toluene	ug/m3	8.4	8.7	3	25	
trans-1,2-Dichloroethene	ug/m3	0.70U	0.70U		25	
trans-1,3-Dichloropropene	ug/m3	0.48U	0.63J		25	
Trichloroethene	ug/m3	1.9	1.9	3	25	
Trichlorofluoromethane	ug/m3	1.5J	1.7J		25	
Vinyl chloride	ug/m3	0.36U	0.36U		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

QC Batch: 463593 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10380372009, 10380372010, 10380372011, 10380372012, 10380372013, 10380372014, 10380372015, 10380372016, 10380372017, 10380372018, 10380372019, 10380372020, 10380372021

METHOD BLANK: 2534980 Matrix: Air
Associated Lab Samples: 10380372009, 10380372010, 10380372011, 10380372012, 10380372013, 10380372014, 10380372015, 10380372016, 10380372017, 10380372018, 10380372019, 10380372020, 10380372021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.25U	1.1	0.25	03/11/17 13:09	
1,1,2,2-Tetrachloroethane	ug/m3	0.33U	0.70	0.33	03/11/17 13:09	
1,1,2-Trichloroethane	ug/m3	0.25U	0.55	0.25	03/11/17 13:09	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.30U	1.6	0.30	03/11/17 13:09	
1,1-Dichloroethane	ug/m3	0.16U	0.82	0.16	03/11/17 13:09	
1,1-Dichloroethene	ug/m3	0.24U	0.81	0.24	03/11/17 13:09	
1,2,4-Trichlorobenzene	ug/m3	0.91U	3.8	0.91	03/11/17 13:09	
1,2,4-Trimethylbenzene	ug/m3	0.12U	1.0	0.12	03/11/17 13:09	
1,2-Dibromo-3-chloropropane	ug/m3	4.9U	4.9	4.9	03/11/17 13:09	
1,2-Dibromoethane (EDB)	ug/m3	0.77U	1.6	0.77	03/11/17 13:09	
1,2-Dichlorobenzene	ug/m3	0.51U	1.2	0.51	03/11/17 13:09	
1,2-Dichloroethane	ug/m3	0.20U	0.41	0.20	03/11/17 13:09	
1,2-Dichloropropane	ug/m3	0.27U	0.94	0.27	03/11/17 13:09	
1,3,5-Trimethylbenzene	ug/m3	0.18U	1.0	0.18	03/11/17 13:09	
1,3-Butadiene	ug/m3	0.18U	0.45	0.18	03/11/17 13:09	
1,3-Dichlorobenzene	ug/m3	0.53U	1.2	0.53	03/11/17 13:09	
1,4-Dichlorobenzene	ug/m3	0.50U	1.2	0.50	03/11/17 13:09	
1,4-Dioxane (p-Dioxane)	ug/m3	0.35U	3.7	0.35	03/11/17 13:09	
2-Butanone (MEK)	ug/m3	0.23U	3.0	0.23	03/11/17 13:09	
2-Hexanone	ug/m3	0.41U	4.2	0.41	03/11/17 13:09	
2-Propanol	ug/m3	0.24U	2.5	0.24	03/11/17 13:09	
4-Ethyltoluene	ug/m3	0.19U	1.0	0.19	03/11/17 13:09	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.22U	4.2	0.22	03/11/17 13:09	
Acetone	ug/m3	0.83U	6.0	0.83	03/11/17 13:09	MN
Allyl chloride	ug/m3	0.23U	1.6	0.23	03/11/17 13:09	
Benzene	ug/m3	0.12U	0.32	0.12	03/11/17 13:09	
Bromodichloromethane	ug/m3	0.19U	1.4	0.19	03/11/17 13:09	
Bromoform	ug/m3	0.90U	5.3	0.90	03/11/17 13:09	MN
Bromomethane	ug/m3	0.31U	0.79	0.31	03/11/17 13:09	
Carbon disulfide	ug/m3	0.10U	0.63	0.10	03/11/17 13:09	
Carbon tetrachloride	ug/m3	0.19U	0.64	0.19	03/11/17 13:09	
Chlorobenzene	ug/m3	0.13U	0.94	0.13	03/11/17 13:09	
Chlorodifluoromethane	ug/m3	0.28U	0.72	0.28	03/11/17 13:09	
Chloroethane	ug/m3	0.19U	0.54	0.19	03/11/17 13:09	
Chloroform	ug/m3	0.19U	0.50	0.19	03/11/17 13:09	
Chloromethane	ug/m3	0.11U	0.42	0.11	03/11/17 13:09	
Chloropentafluoroethane	ug/m3	3.2U	3.2	3.2	03/11/17 13:09	CL
cis-1,2-Dichloroethene	ug/m3	0.25U	0.81	0.25	03/11/17 13:09	
cis-1,3-Dichloropropene	ug/m3	0.37U	0.92	0.37	03/11/17 13:09	
Cyclohexane	ug/m3	0.32U	0.70	0.32	03/11/17 13:09	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

METHOD BLANK: 2534980 Matrix: Air

Associated Lab Samples: 10380372009, 10380372010, 10380372011, 10380372012, 10380372013, 10380372014, 10380372015, 10380372016, 10380372017, 10380372018, 10380372019, 10380372020, 10380372021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/m3	0.86U	1.7	0.86	03/11/17 13:09	
Dichlorodifluoromethane	ug/m3	0.48U	1.0	0.48	03/11/17 13:09	
Dichlorotetrafluoroethane	ug/m3	0.31U	1.4	0.31	03/11/17 13:09	
Ethylbenzene	ug/m3	0.42U	0.88	0.42	03/11/17 13:09	
Freon 123	ug/m3	3.2U	3.2	3.2	03/11/17 13:09	
Hexachloro-1,3-butadiene	ug/m3	0.65U	2.2	0.65	03/11/17 13:09	
Isopropylbenzene (Cumene)	ug/m3	0.14U	2.5	0.14	03/11/17 13:09	
m&p-Xylene	ug/m3	0.79U	1.8	0.79	03/11/17 13:09	
Methyl acetate	ug/m3	1.5U	1.5	1.5	03/11/17 13:09	
Methyl-tert-butyl ether	ug/m3	0.30U	3.7	0.30	03/11/17 13:09	
Methylcyclohexane	ug/m3	0.24U	0.82	0.24	03/11/17 13:09	
Methylene Chloride	ug/m3	0.54U	3.5	0.54	03/11/17 13:09	
n-Hexane	ug/m3	0.36U	0.72	0.36	03/11/17 13:09	
o-Xylene	ug/m3	0.35U	0.88	0.35	03/11/17 13:09	
Styrene	ug/m3	0.19U	0.87	0.19	03/11/17 13:09	
Tetrachloroethene	ug/m3	0.28U	0.69	0.28	03/11/17 13:09	
Toluene	ug/m3	0.15U	0.77	0.15	03/11/17 13:09	
trans-1,2-Dichloroethene	ug/m3	0.38U	0.81	0.38	03/11/17 13:09	
trans-1,3-Dichloropropene	ug/m3	0.26U	0.92	0.26	03/11/17 13:09	
Trichloroethene	ug/m3	0.28U	0.55	0.28	03/11/17 13:09	
Trichlorofluoromethane	ug/m3	0.13U	1.1	0.13	03/11/17 13:09	
Vinyl chloride	ug/m3	0.20U	0.26	0.20	03/11/17 13:09	

LABORATORY CONTROL SAMPLE: 2534981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	67.6	122	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	84.0	120	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	61.6	111	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	90.2	116	75-128	
1,1-Dichloroethane	ug/m3	41.1	47.0	114	75-127	
1,1-Dichloroethene	ug/m3	40.3	46.4	115	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	127	169	60-150	CH,L1
1,2,4-Trimethylbenzene	ug/m3	50	59.2	118	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	168	171		2M,CH
1,2-Dibromoethane (EDB)	ug/m3	78.1	96.7	124	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	69.6	114	75-139	
1,2-Dichloroethane	ug/m3	41.1	49.3	120	75-130	
1,2-Dichloropropane	ug/m3	47	52.1	111	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	60.3	121	75-133	
1,3-Butadiene	ug/m3	22.5	25.4	113	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	71.9	118	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	66.6	109	75-139	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

LABORATORY CONTROL SAMPLE: 2534981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	41.1	112	65-149	
2-Butanone (MEK)	ug/m3	30	34.4	115	75-128	
2-Hexanone	ug/m3	104	126	121	75-138	
2-Propanol	ug/m3	125	152	122	75-127	
4-Ethyltoluene	ug/m3	50	62.8	126	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	120	115	75-130	
Acetone	ug/m3	121	156	129	64-129	
Allyl chloride	ug/m3	79.5	107	134	60-147	CH
Benzene	ug/m3	32.5	37.5	115	75-129	
Bromodichloromethane	ug/m3	68.1	84.6	124	75-134	
Bromoform	ug/m3	105	129	123	75-150	
Bromomethane	ug/m3	39.5	44.8	114	75-127	
Carbon disulfide	ug/m3	31.6	36.8	116	75-134	
Carbon tetrachloride	ug/m3	64	85.0	133	68-150	CH
Chlorobenzene	ug/m3	46.8	55.0	117	75-132	
Chlorodifluoromethane	ug/m3	36	42.9	119	67-134	
Chloroethane	ug/m3	26.8	31.3	117	75-132	
Chloroform	ug/m3	49.6	60.0	121	75-125	
Chloromethane	ug/m3	21	23.1	110	75-126	
Chloropentafluoroethane	ug/m3	64.2	38.3	60		2M,CL
cis-1,2-Dichloroethene	ug/m3	40.3	48.9	121	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	55.0	119	75-137	
Cyclohexane	ug/m3	35	37.5	107	75-126	
Dibromochloromethane	ug/m3	86.6	117	135	75-144	CH
Dichlorodifluoromethane	ug/m3	50.3	61.1	122	75-129	
Dichlorotetrafluoroethane	ug/m3	71	82.8	117	75-125	
Ethylbenzene	ug/m3	44.1	50.5	115	75-134	
Freon 123	ug/m3	63.6	72.5	114		2M
Hexachloro-1,3-butadiene	ug/m3	108	150	138	45-150	CH
Isopropylbenzene (Cumene)	ug/m3	50	57.1	114	75-140	
m&p-Xylene	ug/m3	88.3	111	125	75-129	
Methyl acetate	ug/m3	30.8	38.7	126		2M
Methyl-tert-butyl ether	ug/m3	91.6	108	117	66-148	
Methylcyclohexane	ug/m3	40.8	43.9	108	73-137	
Methylene Chloride	ug/m3	177	217	123	67-133	
n-Hexane	ug/m3	35.8	39.8	111	67-132	
o-Xylene	ug/m3	44.1	48.4	110	75-129	
Styrene	ug/m3	43.3	55.8	129	75-139	
Tetrachloroethene	ug/m3	68.9	82.1	119	75-129	
Toluene	ug/m3	38.3	42.4	111	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	49.9	124	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	53.7	116	75-142	
Trichloroethene	ug/m3	54.6	64.3	118	75-128	
Trichlorofluoromethane	ug/m3	57.1	68.1	119	75-127	
Vinyl chloride	ug/m3	26	28.5	110	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06904l.d
Report Date: 12-Mar-2017 11:13

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06904l.d
Lab Smp Id: 2534383
Inj Date : 10-MAR-2017 16:11
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 11-Mar-2017 11:53 drandall Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						
7	Chloromethane	50	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031017.b\069041.d
Report Date: 12-Mar-2017 11:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.266	3.269	(0.770)	1838561	9.73089	9.73	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	45 Carbon tetrachloride	117	Compound Not Detected.						
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	3558981	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.560	5.566	(1.311)	3501403	9.81839	9.82	
	60 Toluene	91	Compound Not Detected.						(D)
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						
*	67 Chlorobenzene - d5	117	7.027	7.033	(1.000)	2875542	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031017.b\069041.d
Report Date: 12-Mar-2017 11:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.190	10.197	(1.450)	1533708	8.70531	8.71	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						(D)
94	Naphthalene	128	Compound Not Detected.						(D)
95	Hexachlorobutadiene	225	Compound Not Detected.						(D)

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06904l.d
Report Date: 12-Mar-2017 11:13

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06904l.d
Lab Smp Id: 2534383
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 10-MAR-2017
Calibration Time: 14:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

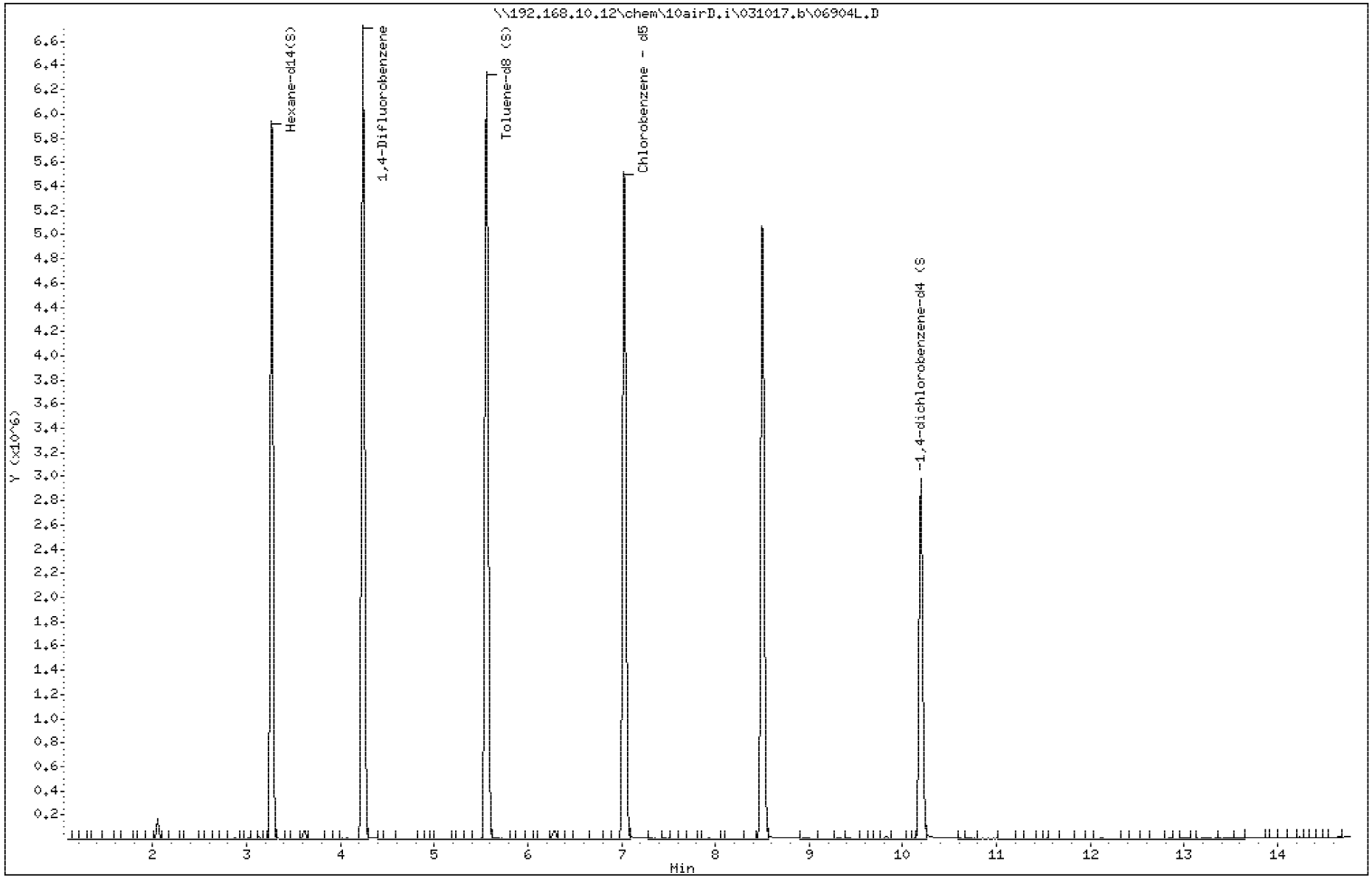
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3558981	-6.04
67 Chlorobenzene - d	3280875	1968525	4593225	2875542	-12.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06904L.D
Date : 10-MAR-2017 16:11
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031017.b/06904.d
Injection Date: 10-MAR-2017 16:11
Instrument: 10airD.i
Lab Sample ID: IC
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07006l.d
Report Date: 12-Mar-2017 11:17

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07006l.d
Lab Smp Id: 2534980
Inj Date : 11-MAR-2017 13:09
Operator : NCK Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 11-Mar-2017 13:31 nkoller Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Dichlorotetrafluoroethane	85	Compound Not Detected.						
7	Chloromethane	50	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07006l.d
Report Date: 12-Mar-2017 11:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	23 Methyl Acetate	43	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	3.269	3.275	(0.771)	1717476	9.48221	9.48	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	37 Ethyl Acetate	43	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	45 Carbon tetrachloride	117	Compound Not Detected.						
	44 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	4.241	4.247	(1.000)	3411782	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 Bromodichloromethane	83	Compound Not Detected.						
	54 1,4-Dioxane	88	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	5.563	5.563	(1.312)	3351172	9.80255	9.80	
	60 Toluene	91	Compound Not Detected.						(D)
	61 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						
*	67 Chlorobenzene - d5	117	7.026	7.030	(1.000)	2674794	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 Bromoform	173	Compound Not Detected.						
	72 n-Nonane	43	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07006l.d
Report Date: 12-Mar-2017 11:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.194	10.194	(1.451)	1504319	9.17933	9.18	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						(D)
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07006l.d
Report Date: 12-Mar-2017 11:17

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07006l.d
Lab Smp Id: 2534980
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 11:33
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

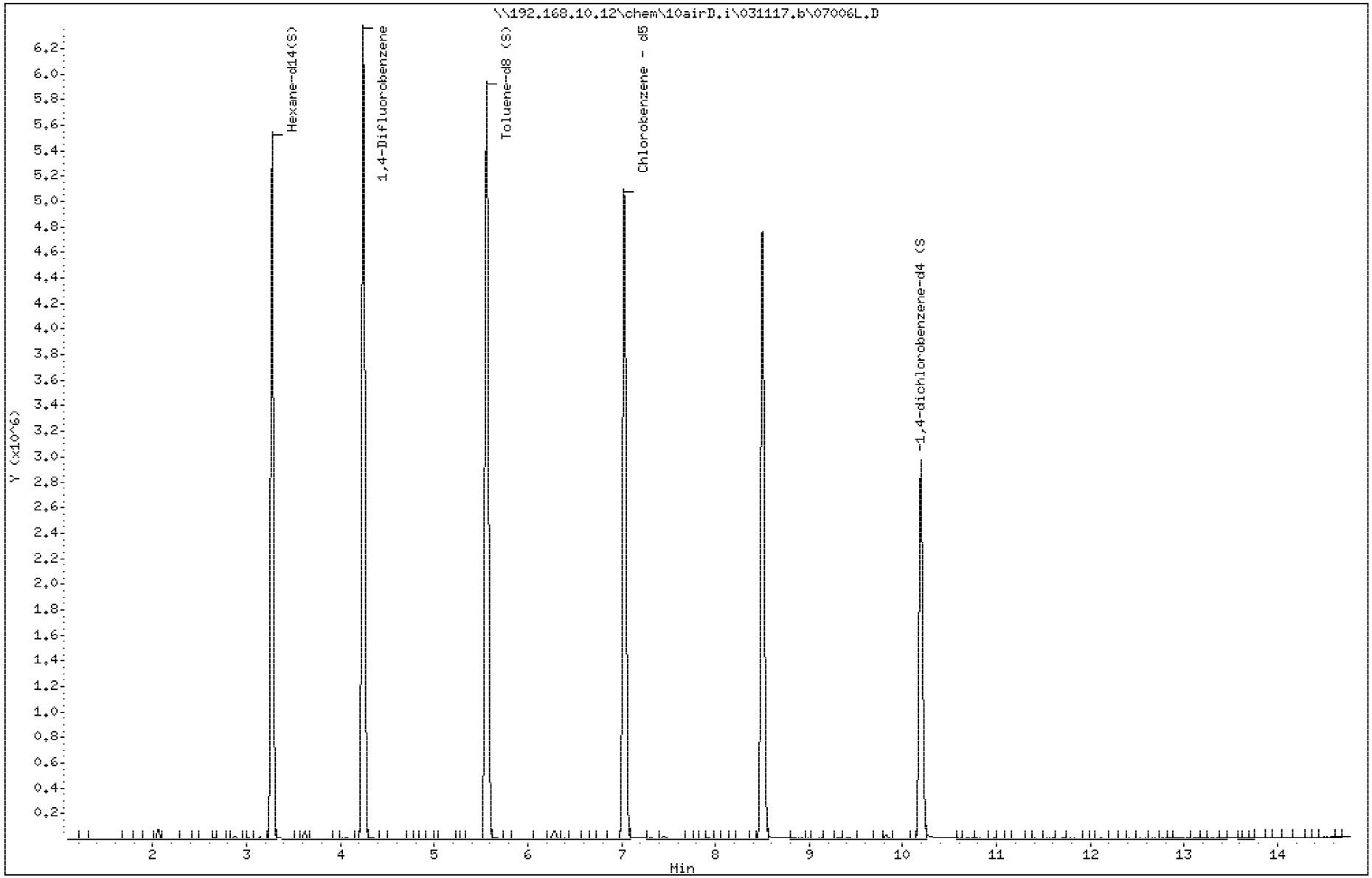
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3411782	-9.92
67 Chlorobenzene - d	3280875	1968525	4593225	2674794	-18.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.24	-0.15
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07006L.D
Date : 11-MAR-2017 13:09
Client ID:
Sample Info:

Instrument: 10airD.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\031117.b/07006.d
Injection Date: 11-MAR-2017 13:09
Instrument: 10airD.i
Lab Sample ID: cert
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902l.d
Report Date: 13-Mar-2017 11:05

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031017.b\06902l.d
Lab Smp Id: 2534384
Inj Date : 10-MAR-2017 14:46
Operator : EMC Inst ID: 10airD.i
Smp Info :
Misc Info : 27876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.065	2.065	(0.486)	101377	16.4758	16.5
2	1,1-Difluoroethane	65	2.114	2.114	(0.498)	180003	10.2343	10.2
3	Chlorodifluoromethane	67	2.123	2.123	(0.500)	94791	10.8707	10.9
4	Propylene	41	2.130	2.130	(0.501)	757731	12.0539	12.1
5	Dichlorodifluoromethane	85	2.149	2.149	(0.506)	862820	10.8656	10.9
6	Dichlorotetrafluoroethane	85	2.216	2.216	(0.522)	851305	10.5679	10.6
7	Chloromethane	50	2.216	2.216	(0.522)	383404	10.2950	10.3
8	Vinyl chloride	62	2.274	2.274	(0.535)	298259	10.3167	10.3
9	1,3-Butadiene	54	2.303	2.303	(0.542)	210916	10.4933	10.5
10	Bromomethane	94	2.406	2.406	(0.566)	325298	10.4233	10.4
11	Chloroethane	64	2.444	2.444	(0.575)	117581	10.7385	10.7
12	Ethanol	45	2.499	2.499	(0.588)	392469	70.7760	70.8
13	Vinyl Bromide	106	2.534	2.534	(0.597)	318245	10.8790	10.9
14	Isopentane	43	2.544	2.544	(0.599)	335721	9.70195	9.70
15	Freon 123	83	2.550	2.550	(0.600)	764312	10.4411	10.4
16	Trichlorofluoromethane	101	2.605	2.605	(0.613)	875488	10.5389	10.5
17	Acrolein	56	2.608	2.608	(0.614)	227546	25.4434	25.4
18	Acetone	43	2.637	2.637	(0.621)	2088067	56.0255	56.0
19	Isopropyl Alcohol	45	2.672	2.672	(0.629)	1819724	64.6756	64.7
20	1,1-Dichloroethene	61	2.791	2.791	(0.657)	517300	10.4560	10.5
21	Acrylonitrile	53	2.807	2.807	(0.661)	496777	28.0809	28.1
24	Tert Butyl Alcohol (TBA)	59	2.829	2.829	(0.666)	1354222	35.3781	35.4
22	Freon 113	101	2.823	2.823	(0.665)	682934	10.4859	10.5
23	Methyl Acetate	43	2.832	2.832	(0.667)	797364	11.5927	11.6

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902l.d
Report Date: 13-Mar-2017 11:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	25 Methylene chloride	49	2.871	2.871	(0.676)	1711959	53.8212	53.8
	26 Allyl Chloride	76	2.877	2.877	(0.677)	232570	29.6942	29.7
	27 Carbon Disulfide	76	2.964	2.964	(0.698)	740606	10.5611	10.6
	28 trans-1,2-dichloroethene	96	3.089	3.089	(0.727)	265785	11.2976	11.3
	29 Methyl Tert Butyl Ether	73	3.115	3.115	(0.733)	1707426	27.6222	27.6
	30 Vinyl Acetate	43	3.192	3.192	(0.751)	861745	10.5868	10.6
	31 1,1-Dichloroethane	63	3.201	3.201	(0.754)	557168	10.4239	10.4
$	32 Hexane-d14(S)	66	3.269	3.269	(0.770)	1887036	9.84118	9.84
	33 Methyl Ethyl Ketone	72	3.336	3.336	(0.785)	121869	10.6123	10.6
	34 n-Hexane	57	3.349	3.349	(0.788)	423821	10.2076	10.2
	35 Di-isopropyl Ether	45	3.371	3.371	(0.794)	1058348	10.5138	10.5
	36 cis-1,2-Dichloroethene	96	3.468	3.468	(0.816)	300532	11.2778	11.3
	37 Ethyl Acetate	43	3.477	3.477	(0.819)	730163	10.9911	11.0
	38 Ethyl Tert-Butyl Ether	59	3.564	3.564	(0.839)	2092892	27.7268	27.7
	39 Chloroform	83	3.567	3.567	(0.840)	736007	10.9367	10.9
	40 Tetrahydrofuran	42	3.705	3.705	(0.872)	349622	10.4282	10.4
	41 1,1,1-Trichloroethane	97	3.901	3.901	(0.918)	740900	10.9444	10.9
	42 1,2-Dichloroethane	62	3.911	3.911	(0.921)	524238	10.6617	10.7
	43 Benzene	78	4.106	4.106	(0.967)	840168	10.5705	10.6
	45 Carbon tetrachloride	117	4.119	4.119	(0.970)	751351	11.7917	11.8
	44 Cyclohexane	56	4.119	4.119	(0.970)	400706	9.76543	9.77
	46 Tert Amyl Methyl Ether	73	4.241	4.241	(0.998)	877975	10.4286	10.4
*	47 1,4-Difluorobenzene	114	4.247	4.247	(1.000)	3611878	10.0000	
	48 2,2,4-Trimethylpentane	57	4.373	4.373	(1.029)	2875591	28.6395	28.6
	49 Heptane	43	4.491	4.491	(1.057)	615233	9.91547	9.92
	50 1,2-Dichloropropane	63	4.556	4.556	(1.073)	380031	10.3798	10.4
	51 Trichloroethene	130	4.572	4.572	(1.076)	452822	10.3788	10.4
	52 Methyl methacrylate	69	4.652	4.652	(1.095)	306887	10.6456	10.6
	53 Bromodichloromethane	83	4.665	4.665	(1.098)	833855	11.0991	11.1
	54 1,4-Dioxane	88	4.671	4.671	(1.100)	79478	13.2411	13.2(H)
	55 Methylcyclohexane	98	4.960	4.960	(1.168)	169037	10.0463	10.0
	56 Methyl Isobutyl Ketone	43	5.091	5.091	(1.199)	2057419	27.0330	27.0
	57 cis-1,3-Dichloropropene	75	5.130	5.130	(1.208)	554069	11.1845	11.2
	58 trans-1,3-Dichloropropene	75	5.505	5.505	(1.296)	499932	10.6365	10.6
$	59 Toluene-d8 (S)	98	5.566	5.566	(1.310)	3628683	10.0263	10.0
	60 Toluene	91	5.634	5.634	(1.326)	1118301	10.4735	10.5
	61 1,1,2-Trichloroethane	97	5.643	5.643	(1.329)	431059	10.4266	10.4
	62 Methyl Butyl Ketone	43	5.881	5.881	(0.836)	2002326	27.6450	27.6
	63 n-Octane	43	6.054	6.054	(0.861)	773182	10.2659	10.3
	64 Dibromochloromethane	129	6.125	6.125	(0.871)	914534	12.2410	12.2
	65 1,2-Dibromoethane	107	6.336	6.336	(0.901)	713965	11.0534	11.1
	66 Tetrachloroethene	166	6.407	6.407	(0.911)	705599	10.5162	10.5
*	67 Chlorobenzene - d5	117	7.033	7.033	(1.000)	3035016	10.0000	
	68 Chlorobenzene	112	7.071	7.071	(1.005)	884509	10.8216	10.8
	69 Ethyl Benzene	91	7.318	7.318	(1.041)	1405413	10.5537	10.6
	70 m&p-Xylene	91	7.460	7.460	(1.061)	2079117	22.6029	22.6
	71 Bromoform	173	7.825	7.825	(1.113)	944869	11.0779	11.1
	72 n-Nonane	43	7.861	7.861	(1.118)	758906	10.9207	10.9
	73 Styrene	104	7.867	7.867	(1.119)	777509	11.5102	11.5
	74 o-Xylene	91	7.931	7.931	(1.128)	1111018	10.1198	10.1
	75 1,1,2,2-Tetrachloroethane	83	8.194	8.194	(1.165)	798305	10.9438	10.9
	76 Isopropylbenzene	105	8.499	8.499	(1.208)	1396696	10.2762	10.3
	77 N-Propylbenzene	91	9.058	9.058	(1.288)	1636728	11.4495	11.4
	78 4-Ethyltoluene	105	9.228	9.228	(1.312)	1322113	11.3069	11.3

Data File: \\192.168.10.12\chem\10airD.i\031017.b\069021.d
Report Date: 13-Mar-2017 11:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
79	1,3,5-Trimethylbenzene	105	9.321	9.321	(1.325)	1130060	11.0636	11.1
80	n-Decane	57	9.725	9.725	(2.289)	636509	10.8434	10.8
81	Tert-Butyl Benzene	119	9.809	9.809	(1.395)	1160408	10.7721	10.8
82	1,2,4-Trimethylbenzene	105	9.828	9.828	(1.397)	1099760	11.0847	11.1
83	1,3-Dichlorobenzene	146	10.126	10.126	(1.440)	784727	11.0364	11.0(M)
84	Sec- Butylbenzene	105	10.152	10.152	(1.443)	1527370	11.4207	11.4
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.197	10.197	(1.450)	1980274	10.6494	10.6
86	Benzyl Chloride	91	10.219	10.219	(1.453)	843856	11.3934	11.4
87	1,4-Dichlorobenzene	146	10.235	10.235	(1.455)	771247	10.3882	10.4
88	p-Isopropyltoluene	119	10.377	10.377	(1.475)	1350912	11.3417	11.3
89	1,2,3-Trimethylbenzene	105	10.415	10.415	(1.481)	1061774	11.3928	11.4
90	1,2-Dichlorobenzene	146	10.701	10.701	(1.521)	717221	10.8879	10.9
91	N-Butylbenzene	91	10.967	10.967	(1.559)	1142996	11.6960	11.7
92	1,2-Dibromo-3-Chloropropane	157	11.525	11.525	(1.639)	234337	15.5727	15.6
93	1,2,4-Trichlorobenzene	180	12.835	12.835	(1.825)	275207	15.5346	15.5
94	Naphthalene	128	12.953	12.953	(1.842)	498232	15.6658	15.7
95	Hexachlorobutadiene	225	13.213	13.213	(1.879)	343156	12.9781	13.0

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902l.d
Report Date: 13-Mar-2017 11:05

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 06902l.d
Lab Smp Id: 2534384
Analysis Type: VOA
Quant Type: ISTD
Operator: EMC
Method File: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m
Misc Info: 27876

Calibration Date: 10-MAR-2017
Calibration Time: 14:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

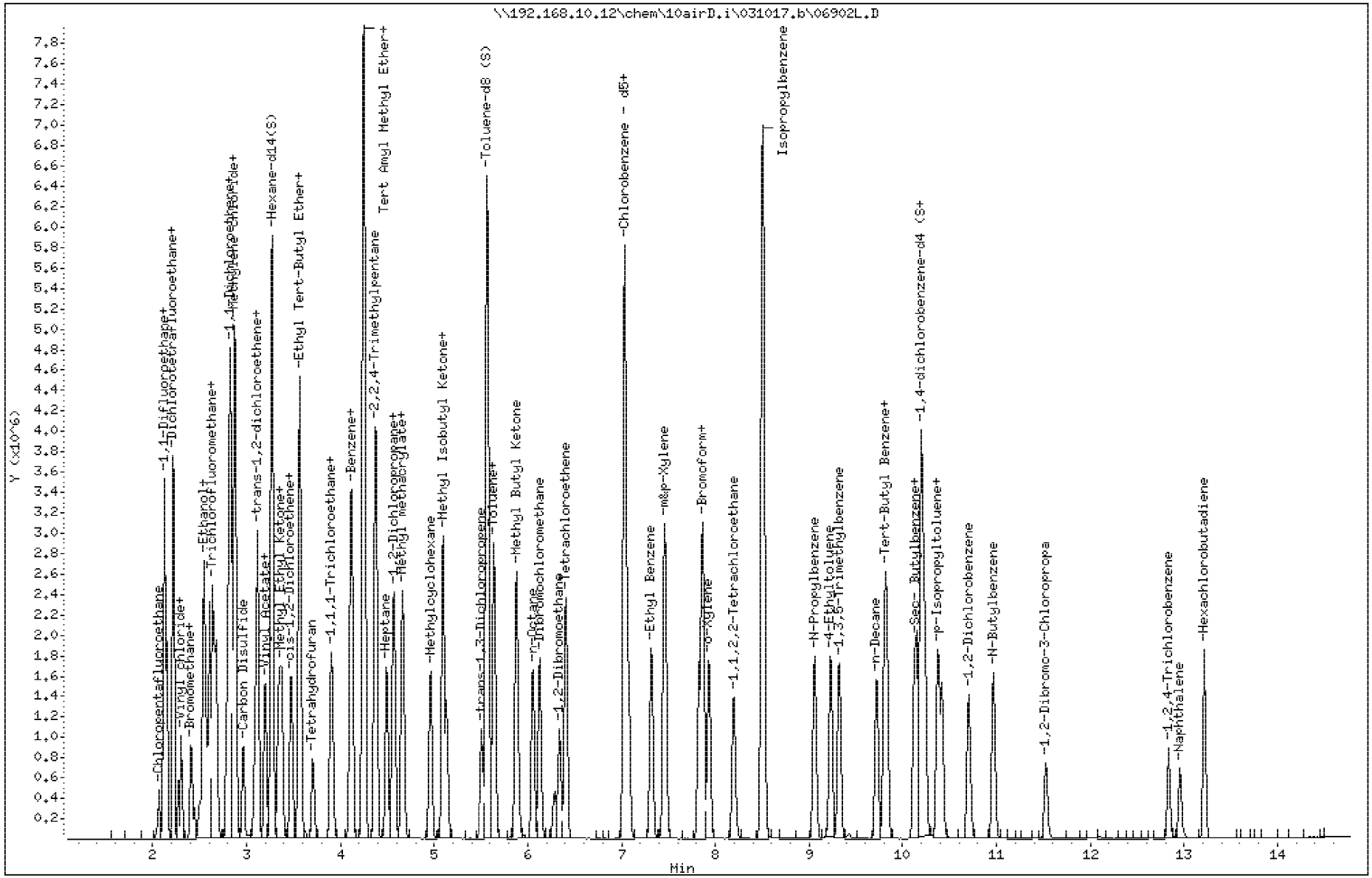
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3611878	-4.64
67 Chlorobenzene - d	3280875	1968525	4593225	3035016	-7.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.25	3.92	4.58	4.25	0.00
67 Chlorobenzene - d	7.03	6.70	7.36	7.03	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

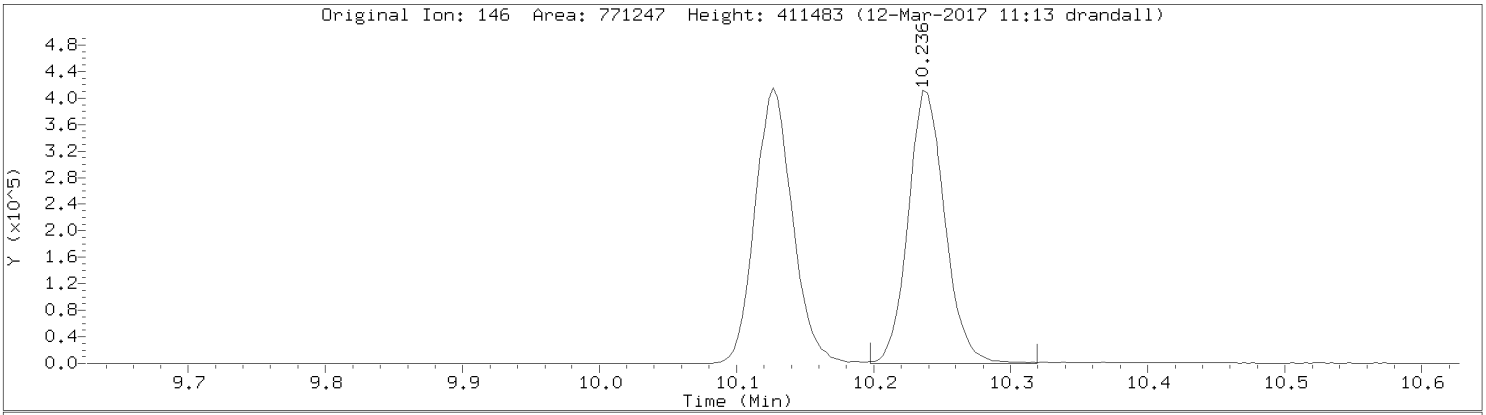
Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902L.D
Date : 10-MAR-2017 14:46
Client ID:
Sample Info:

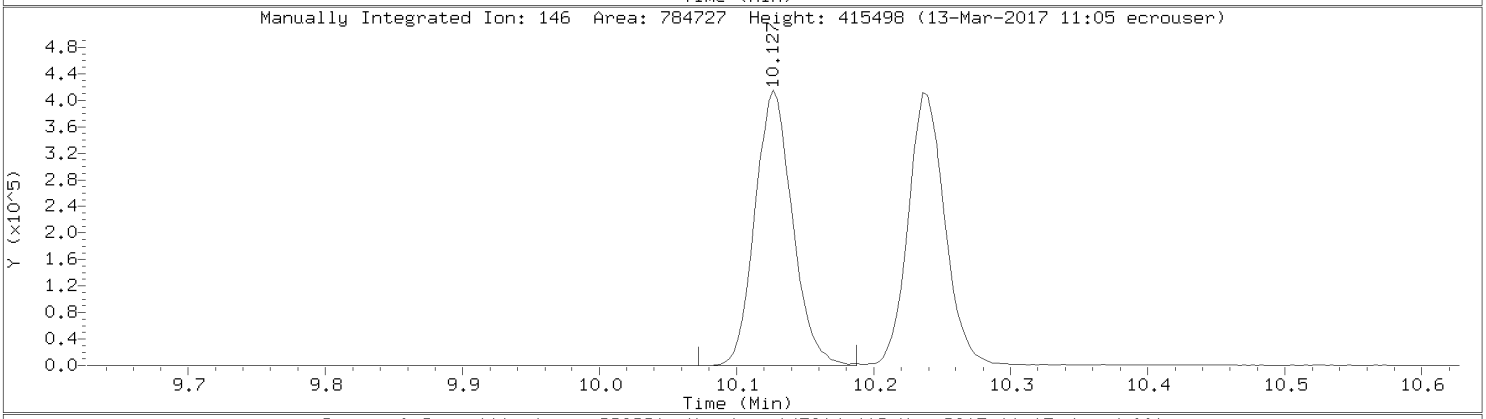
Instrument: 10airD.i
Operator: EMC
Column phase: J&W DB-5
Column diameter: 0.32

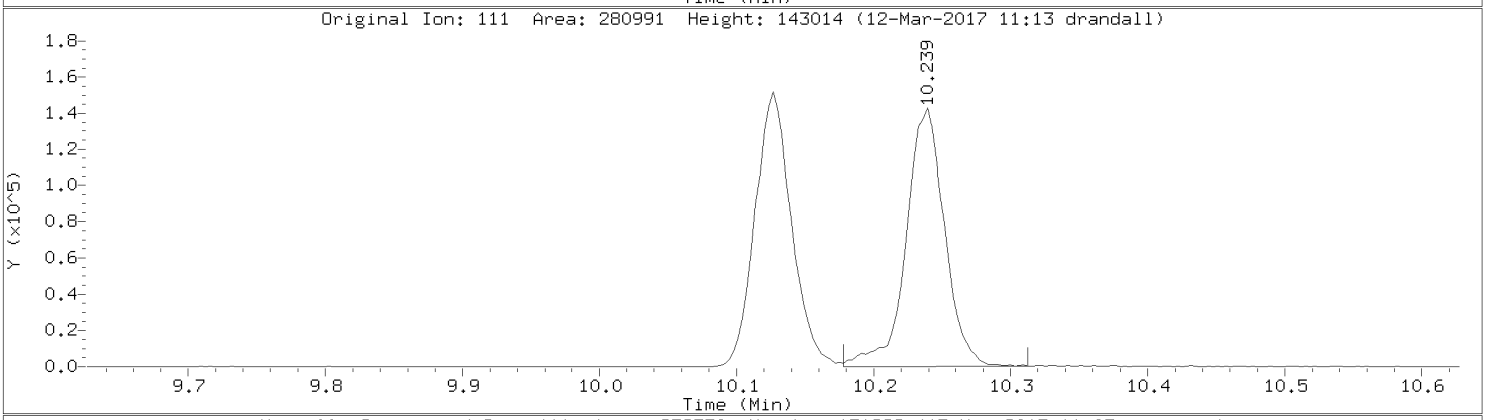


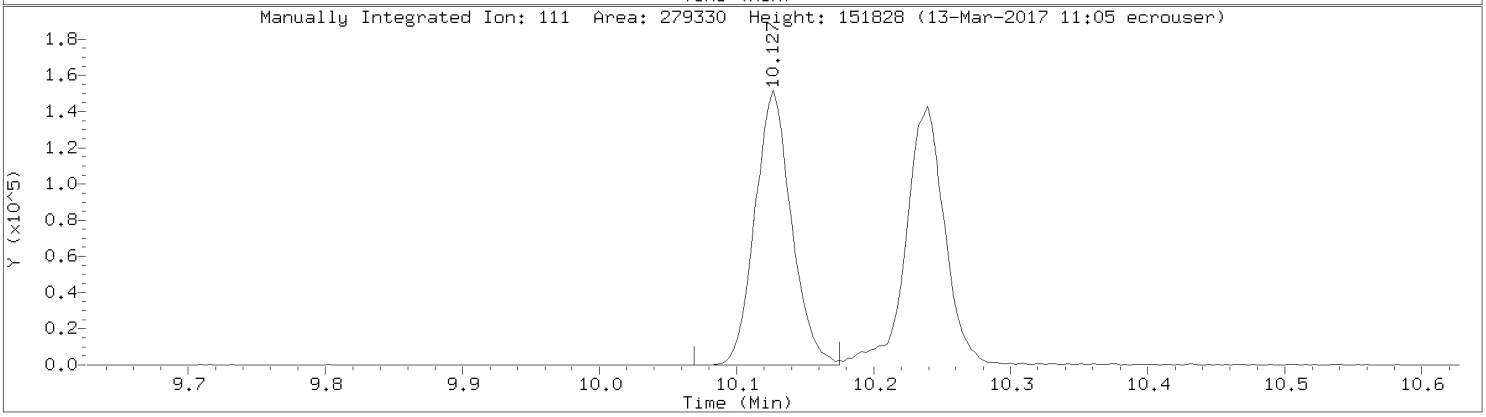
Data File: \\192.168.10.12\chem\10airD.i\031017.b/069021.d
Injection Date: 10-MAR-2017 14:46
Instrument: 10airD.i
Lab Sample ID: 2534384

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

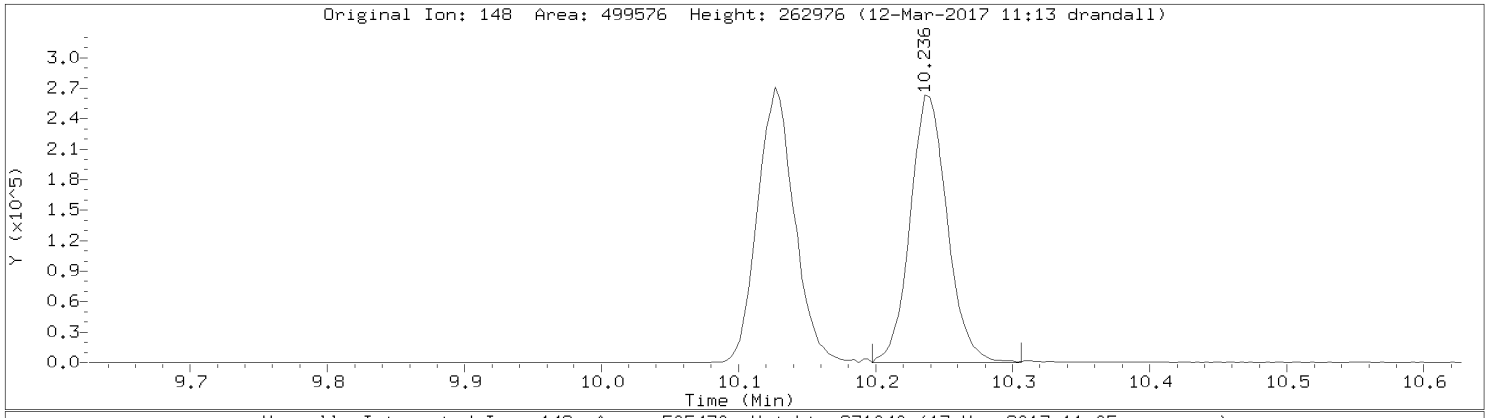


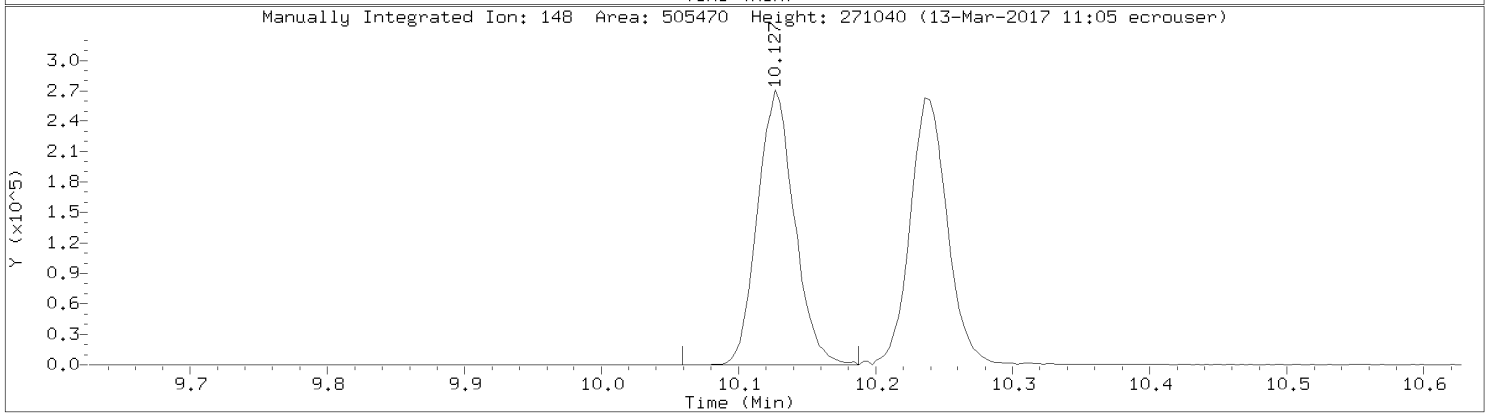






Data File: \\192.168.10.12\chem\10airD.i\031017.b/069021.d
Injection Date: 10-MAR-2017 14:46
Instrument: 10airD.i
Lab Sample ID: 2534384





Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002l.D
Report Date: 13-Mar-2017 10:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\031117.b\07002l.D
Lab Smp Id: 2534981
Inj Date : 11-MAR-2017 10:37
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 27878
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Meth Date : 13-Mar-2017 10:42 ecrouser Quant Type: ISTD
Cal Date : 10-MAR-2017 09:35 Cal File: 06824.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.094	2.094	(0.491)	36611	5.96962	5.97
2	1,1-Difluoroethane	65	2.142	2.142	(0.502)	192788	11.0091	11.0
3	Chlorodifluoromethane	67	2.155	2.155	(0.505)	103643	11.9378	11.9
4	Propylene	41	2.162	2.162	(0.507)	800237	12.7856	12.8
5	Dichlorodifluoromethane	85	2.181	2.181	(0.511)	960779	12.1520	12.2
6	Dichlorotetrafluoroethane	85	2.245	2.245	(0.526)	935036	11.6581	11.7
7	Chloromethane	50	2.245	2.245	(0.526)	408598	11.0195	11.0
8	Vinyl chloride	62	2.303	2.303	(0.540)	315515	10.9613	11.0
9	1,3-Butadiene	54	2.332	2.332	(0.547)	225758	11.2808	11.3
10	Bromomethane	94	2.435	2.435	(0.571)	353016	11.3609	11.4
11	Chloroethane	64	2.473	2.473	(0.580)	127395	11.6857	11.7
12	Ethanol	45	2.534	2.534	(0.594)	363068	65.7600	65.8(H)
13	Vinyl Bromide	106	2.560	2.560	(0.600)	344335	11.8223	11.8
14	Isopentane	43	2.572	2.572	(0.603)	363724	10.5571	10.6(H)
15	Freon 123	83	2.579	2.579	(0.604)	831610	11.4101	11.4
16	Trichlorofluoromethane	101	2.630	2.630	(0.616)	986970	11.9328	11.9(H)
17	Acrolein	56	2.637	2.637	(0.618)	252647	28.3743	28.4
18	Acetone	43	2.666	2.666	(0.625)	2319372	64.5206	64.5
19	Isopropyl Alcohol	45	2.704	2.704	(0.634)	1708420	60.9850	61.0(H)
20	1,1-Dichloroethene	61	2.820	2.820	(0.661)	567625	11.5233	11.5
21	Acrylonitrile	53	2.836	2.836	(0.665)	558397	31.7020	31.7
24	Tert Butyl Alcohol (TBA)	59	2.858	2.858	(0.670)	1361563	35.7253	35.7(H)
22	Freon 113	101	2.848	2.848	(0.668)	751240	11.5851	11.6
23	Methyl Acetate	43	2.858	2.858	(0.670)	860040	12.5585	12.6

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002l.D
Report Date: 13-Mar-2017 10:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
25	Methylene chloride	49	2.897	2.897	(0.679)	1898157	61.3872	61.4(H)
26	Allyl Chloride	76	2.906	2.906	(0.681)	261995	33.5972	33.6(H)
27	Carbon Disulfide	76	2.986	2.986	(0.700)	812703	11.6399	11.6
28	trans-1,2-dichloroethene	96	3.115	3.115	(0.730)	289799	12.3722	12.4
29	Methyl Tert Butyl Ether	73	3.140	3.140	(0.736)	1806599	29.3543	29.4
30	Vinyl Acetate	43	3.217	3.217	(0.754)	935589	11.5951	11.6
31	1,1-Dichloroethane	63	3.227	3.227	(0.756)	608256	11.4294	11.4
$ 32	Hexane-d14(S)	66	3.291	3.291	(0.771)	1848542	9.68255	9.68
33	Methyl Ethyl Ketone	72	3.362	3.362	(0.788)	131198	11.4746	11.5(H)
34	n-Hexane	57	3.372	3.372	(0.790)	459171	11.1073	11.1
35	Di-isopropyl Ether	45	3.394	3.394	(0.795)	1123150	11.2063	11.2
36	cis-1,2-Dichloroethene	96	3.490	3.490	(0.818)	322015	12.1368	12.1
37	Ethyl Acetate	43	3.503	3.503	(0.821)	788923	11.9275	11.9
38	Ethyl Tert-Butyl Ether	59	3.587	3.587	(0.841)	2215434	29.9360	29.9
39	Chloroform	83	3.590	3.590	(0.841)	809599	12.0828	12.1
40	Tetrahydrofuran	42	3.728	3.728	(0.874)	376555	11.2806	11.3
41	1,1,1-Trichloroethane	97	3.920	3.920	(0.919)	822110	12.1971	12.2
42	1,2-Dichloroethane	62	3.933	3.933	(0.922)	586211	11.9741	12.0
43	Benzene	78	4.126	4.126	(0.967)	913160	11.5390	11.5
45	Carbon tetrachloride	117	4.138	4.138	(0.970)	842937	13.2868	13.3
44	Cyclohexane	56	4.138	4.138	(0.970)	437856	10.7174	10.7
46	Tert Amyl Methyl Ether	73	4.260	4.260	(0.998)	942948	11.3601	11.4
* 47	1,4-Difluorobenzene	114	4.267	4.267	(1.000)	3596167	10.0000	
48	2,2,4-Trimethylpentane	57	4.392	4.392	(1.029)	2972814	30.0996	30.1
49	Heptane	43	4.507	4.507	(1.056)	649861	10.5193	10.5
50	1,2-Dichloropropane	63	4.575	4.575	(1.072)	403976	11.0820	11.1
51	Trichloroethene	130	4.591	4.591	(1.076)	511299	11.7704	11.8
52	Methyl methacrylate	69	4.671	4.671	(1.095)	328993	11.4623	11.5
53	Bromodichloromethane	83	4.684	4.684	(1.098)	928589	12.4140	12.4
54	1,4-Dioxane	88	4.694	4.694	(1.100)	67132	11.2331	11.2
55	Methylcyclohexane	98	4.976	4.976	(1.166)	180131	10.7524	10.8
56	Methyl Isobutyl Ketone	43	5.111	5.111	(1.198)	2160050	28.8195	28.8
57	cis-1,3-Dichloropropene	75	5.143	5.143	(1.205)	588301	11.9273	11.9
58	trans-1,3-Dichloropropene	75	5.518	5.518	(1.293)	545950	11.6388	11.6
$ 59	Toluene-d8 (S)	98	5.579	5.579	(1.308)	3548251	9.84687	9.85
60	Toluene	91	5.650	5.650	(1.324)	1176478	11.0665	11.1
61	1,1,2-Trichloroethane	97	5.659	5.659	(1.326)	456983	11.1020	11.1
62	Methyl Butyl Ketone	43	5.894	5.894	(0.837)	2126266	30.2311	30.2
63	n-Octane	43	6.064	6.064	(0.861)	815936	11.1564	11.2
64	Dibromochloromethane	129	6.138	6.138	(0.872)	977053	13.4676	13.5
65	1,2-Dibromoethane	107	6.349	6.349	(0.902)	776601	12.3815	12.4
66	Tetrachloroethene	166	6.417	6.417	(0.911)	775874	11.9082	11.9
* 67	Chlorobenzene - d5	117	7.042	7.042	(1.000)	2947178	10.0000	
68	Chlorobenzene	112	7.081	7.081	(1.005)	932427	11.7478	11.7
69	Ethyl Benzene	91	7.325	7.325	(1.040)	1480788	11.4512	11.5
70	m&p-Xylene	91	7.469	7.469	(1.061)	2201827	25.0837	25.1
71	Bromoform	173	7.832	7.832	(1.112)	1013589	12.2623	12.3
72	n-Nonane	43	7.864	7.864	(1.117)	831611	12.3236	12.3
73	Styrene	104	7.874	7.874	(1.118)	845138	12.8843	12.9
74	o-Xylene	91	7.938	7.938	(1.127)	1170063	10.9752	11.0
75	1,1,2,2-Tetrachloroethane	83	8.201	8.201	(1.164)	852879	12.0404	12.0
76	Isopropylbenzene	105	8.506	8.506	(1.208)	1508838	11.4321	11.4
77	N-Propylbenzene	91	9.061	9.061	(1.287)	1728530	12.4521	12.5
78	4-Ethyltoluene	105	9.234	9.234	(1.311)	1427541	12.5724	12.6

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002l.D
Report Date: 13-Mar-2017 10:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
79	1,3,5-Trimethylbenzene	105	9.321	9.321	(1.323)	1190358	12.0676	12.1
80	n-Decane	57	9.728	9.728	(2.280)	669742	11.4594	11.5
81	Tert-Butyl Benzene	119	9.815	9.815	(1.394)	1196529	11.4385	11.4
82	1,2,4-Trimethylbenzene	105	9.834	9.834	(1.396)	1135169	11.8400	11.8
83	1,3-Dichlorobenzene	146	10.129	10.129	(1.438)	812371	11.7657	11.8(M)
84	Sec- Butylbenzene	105	10.158	10.158	(1.442)	1574227	12.1219	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.203	10.203	(1.449)	1910676	10.5814	10.6
86	Benzyl Chloride	91	10.226	10.226	(1.452)	869516	12.0897	12.1
87	1,4-Dichlorobenzene	146	10.242	10.242	(1.454)	785780	10.8994	10.9
88	p-Isopropyltoluene	119	10.380	10.380	(1.474)	1406040	12.1564	12.2
89	1,2,3-Trimethylbenzene	105	10.418	10.418	(1.479)	1085463	11.9941	12.0
90	1,2-Dichlorobenzene	146	10.707	10.707	(1.520)	728332	11.3862	11.4
91	N-Butylbenzene	91	10.970	10.970	(1.558)	1207177	12.7209	12.7
92	1,2-Dibromo-3-Chloropropane	157	11.532	11.532	(1.637)	249774	17.0933	17.1
93	1,2,4-Trichlorobenzene	180	12.835	12.835	(1.822)	290030	16.8593	16.9
94	Naphthalene	128	12.957	12.957	(1.840)	527076	17.0666	17.1
95	Hexachlorobutadiene	225	13.213	13.213	(1.876)	354888	13.8219	13.8

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002l.D
Report Date: 13-Mar-2017 10:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 07002l.D
Lab Smp Id: 2534981
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m
Misc Info: 27878

Calibration Date: 11-MAR-2017
Calibration Time: 10:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

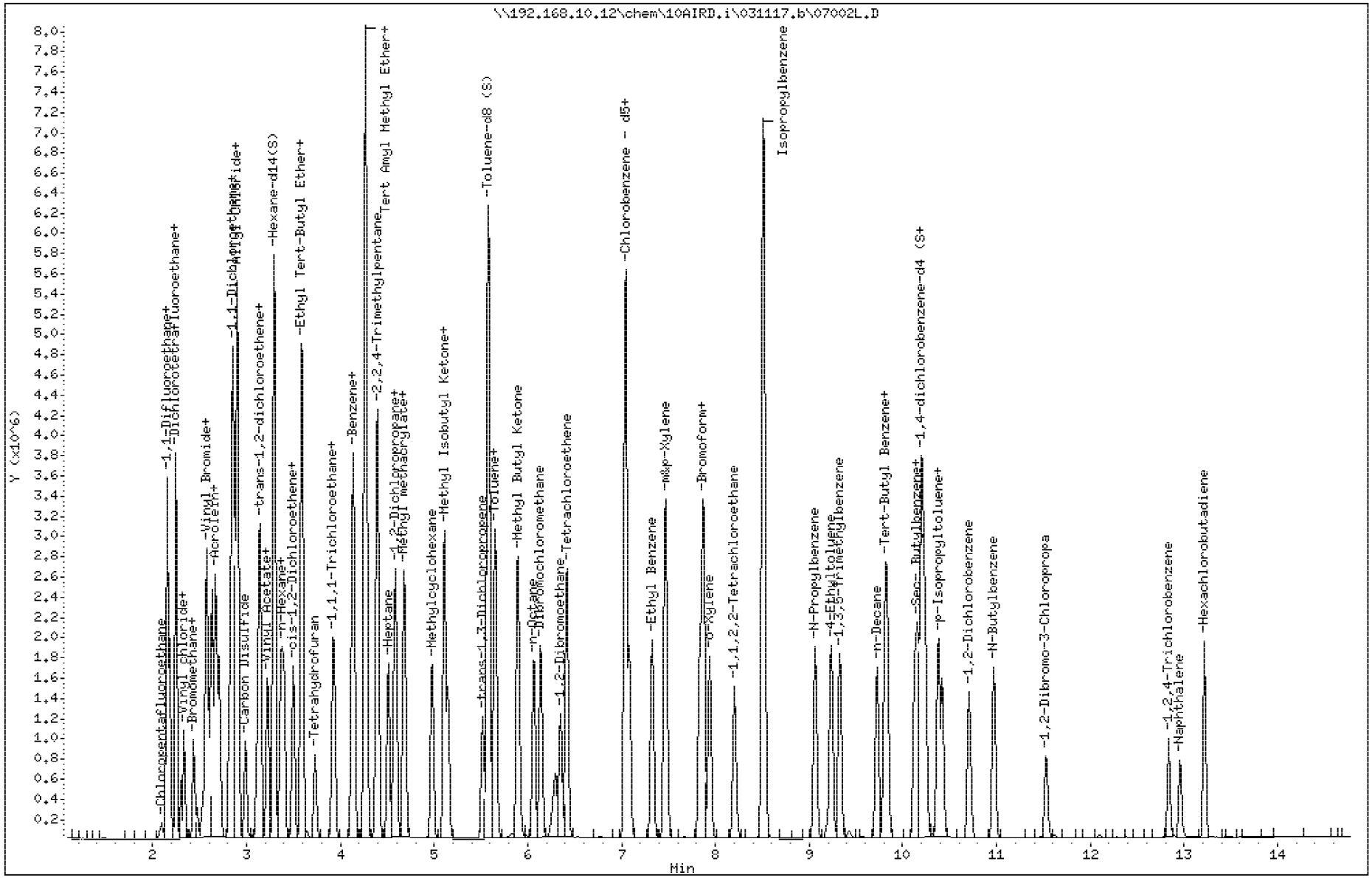
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	3787563	2272538	5302588	3596167	-5.05
67 Chlorobenzene - d	3280875	1968525	4593225	2947178	-10.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.27	3.94	4.60	4.27	0.00
67 Chlorobenzene - d	7.04	6.71	7.37	7.04	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

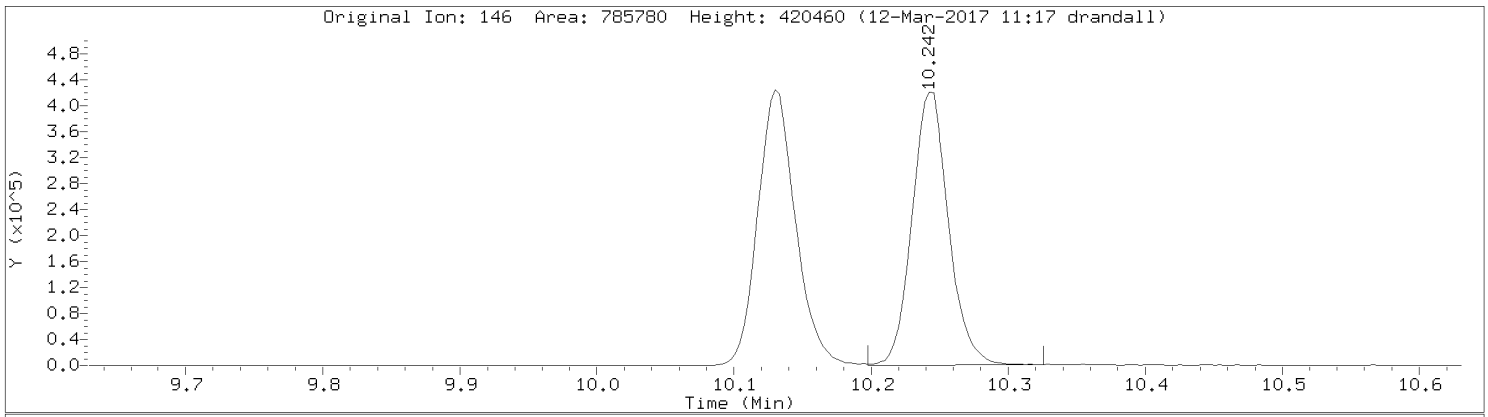
Data File: \\192.168.10.12\chem\10AIRD.i\031117.b\07002L.D
Date : 11-MAR-2017 10:37
Client ID:
Sample Info:

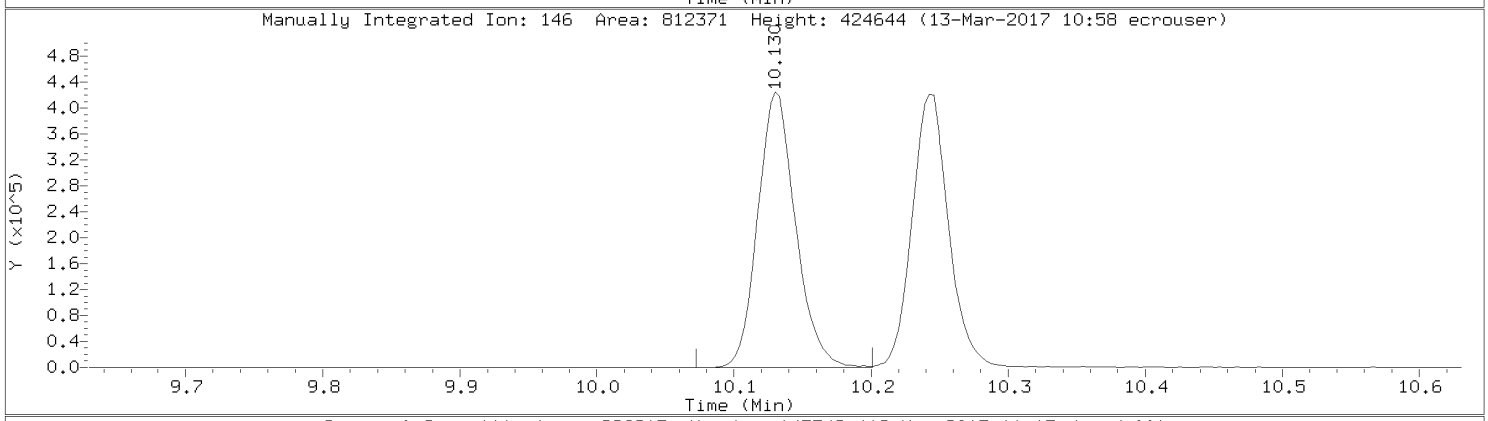
Instrument: 10airD.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32

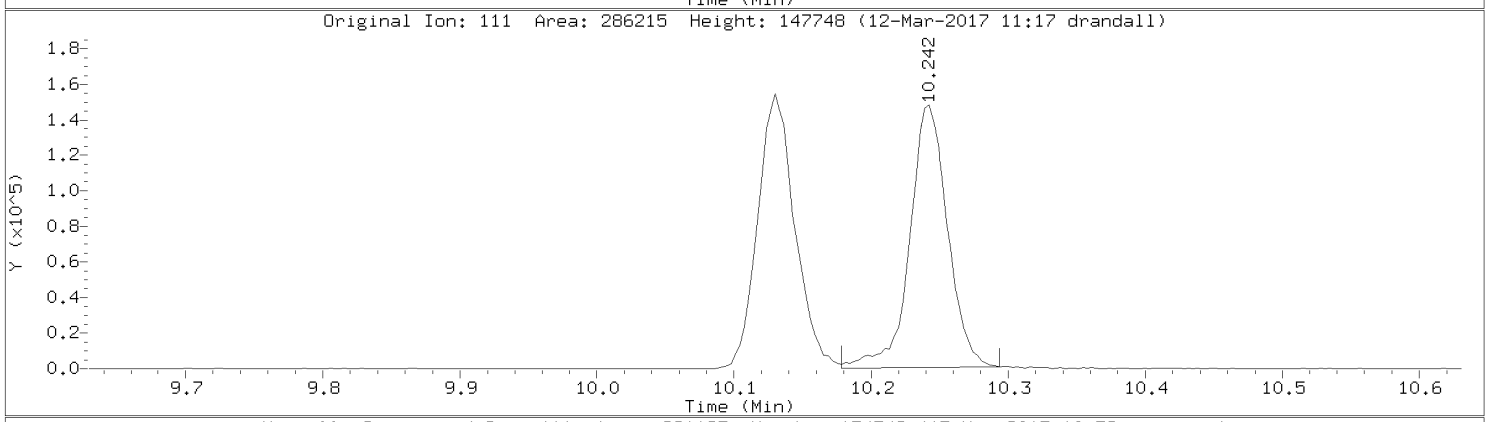


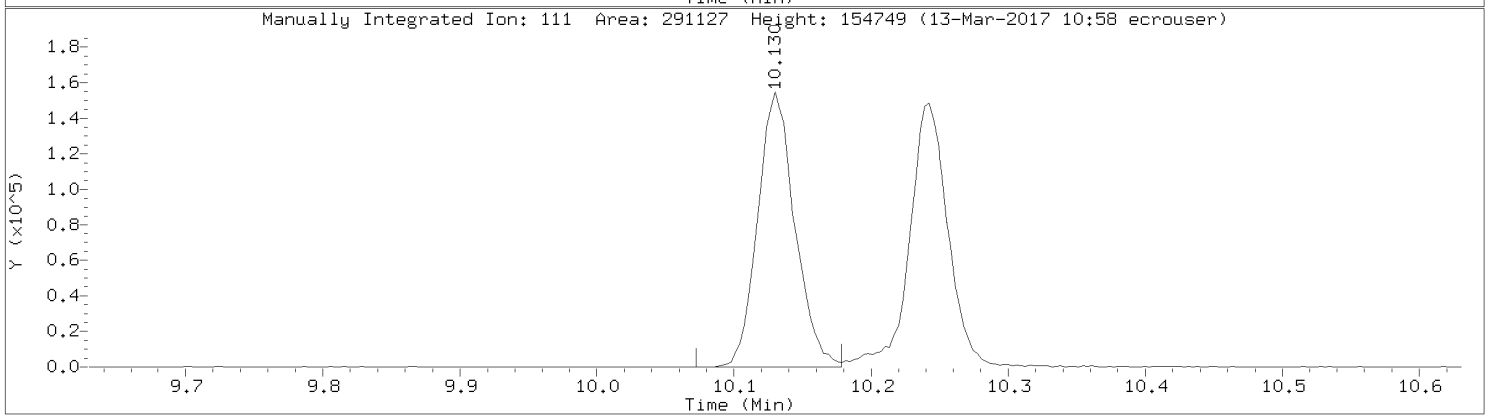
Data File: \\192.168.10.12\chem\10airD.i\031117.b/07002l.D
Injection Date: 11-MAR-2017 10:37
Instrument: 10airD.i
Lab Sample ID: 2534981

Compound: 1,3-Dichlorobenzene
CAS Number: 541-73-1

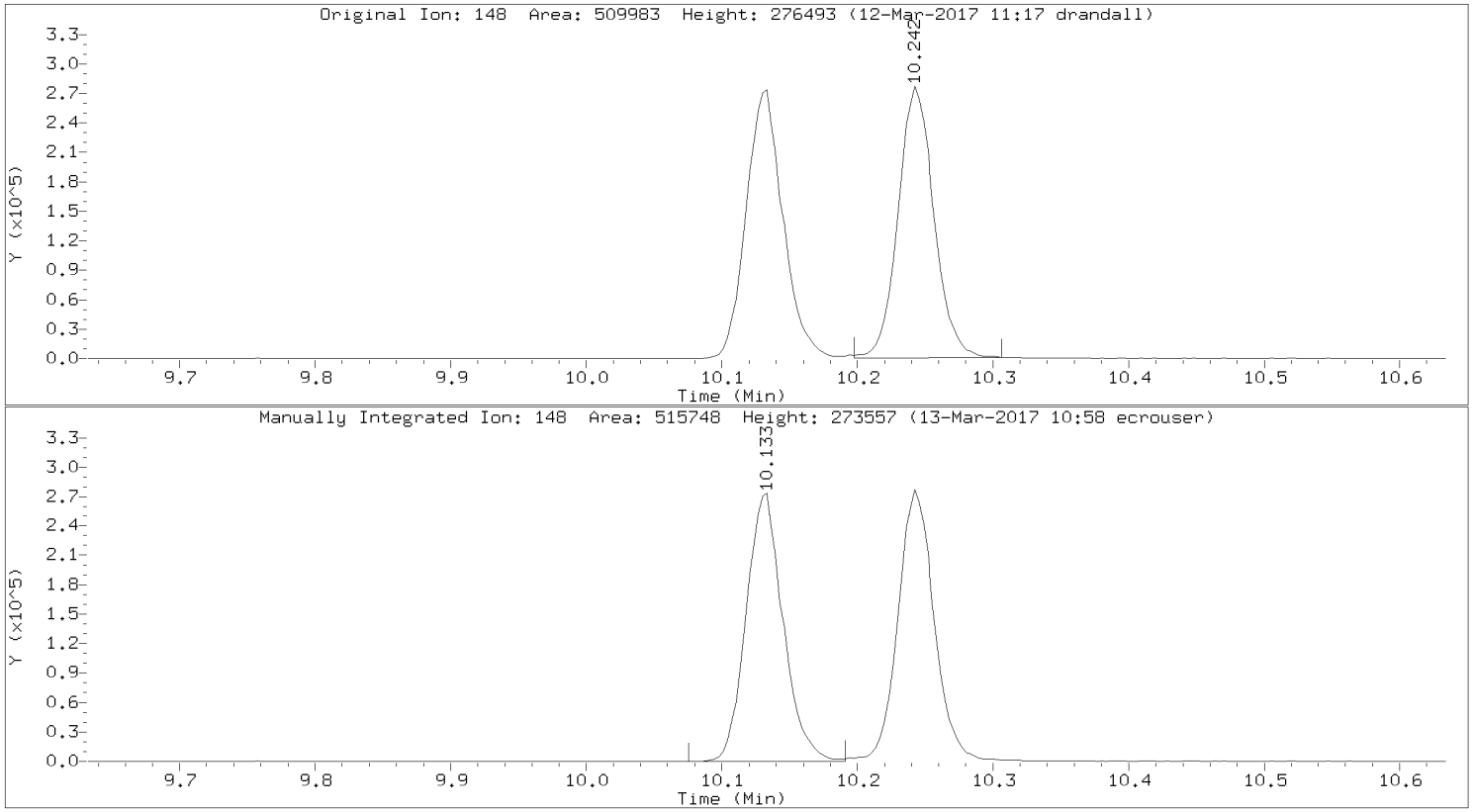








Data File: \\192.168.10.12\chem\10airD.i\031117.b/070021.D
Injection Date: 11-MAR-2017 10:37
Instrument: 10airD.i
Lab Sample ID: 2534981



Equation 1: Concentration of each component in the flask (Static Dilution Technique, section 10.4.1. S-MN-A-013 rev. 19).

$$\text{Concentration}(\text{mg/L}) = \frac{(V_i)(d)}{V_f}$$

where:

V_i =Volume of liquid neat standard injected into the flask in mL;
d=Density of the liquid neat standard in mg/mL;
V_f =Volume of the flask in liters.

Caution: In the preparation of standards by this technique, make sure that the volume of neat standard injected into the flask does not result in an overpressure due to the higher partial pressure produced by the standard compared to the vapor pressure in the flask.

Equation 2: First determine the volume of the compound as a gas.

$$V = \frac{nRT}{P} \quad \text{where,} \quad n = \frac{(V_i)(d)}{M}$$

where,
V=Volume of injected compound at STP in liters;
n=Moles;
R=Gas constant (0.08206 L-atm/mole ^{o}K);
T=Ambient temperature in ^{o}K;
P=Ambient pressure in atm;
V_i=Volume of liquid neat standard injected into the flask in mL;
d=Density of the neat standard in g/mL;
M=Molecular weight of the compound in g/mole.

Equation 3: Now calculate the concentration in the flask in ppbv.

$$\text{ppbv} = \frac{V}{V_f}(10^9)$$

where:
V=Gas volume of compound as determined in Eq. 8 in liters;
V_f=Volume of static dilution flask in liters.

Equation 4*:* The concentration in ppbv of each compound in the canister can be determined.

$$\text{ppbv} = \frac{(V_i)(C_x)}{V_c}$$

where:
V_i=Volume removed from static dilution flask and injected into the canister in liters;
C_x=Concentration of compound *x* in the static dilution flask in ppbv;
V_c=Final canister volume in liters.

Equation 5: Calculate the relative response factors (RRF) for each compound.

$$\text{Relative Response Factor (RRF)} = \frac{(A_x)(C_i)}{(A_i)(C_x)}$$

where,
A_x=Area of the primary ion for compound *x* to be measured;
A_i=Area of the primary ion for the internal standard associated with compound *x*;
C_i=Concentration of the internal standard in ppbv;
C_x =Concentration of compound *x* to be measured in ppbv.

Equation 6: Calculate the mean RRF for each compound.

$$\overline{R_f} = \frac{\sum_{n=5} R_f}{n}$$

where,
$\overline{R_f}$ =Average relative response factor;
R_f=Relative response factor from calibration curve;
n=Number of data points.

Equation 7: Standard Deviation.

$$\sigma_{(n-1)} = \sqrt{\sum_{i-1}^{n} \frac{(x_i - \bar{x})^2}{(n-1)}}$$

Equation 8: %Relative Standard Deviation (%RSD).

$$\%RSD = \frac{s_{(n-1)}}{\bar{R}_f} x100$$

Equation 9: Mean area response for Internal Standard.

$$\bar{y} = \sum_{i=1}^{n} \frac{y_i}{n}$$

where,

$\bar{y}$ = mean area response

y = Area response for the internal standard for each initial calibration standard

Equation 10: If a linear regression is used, the regression produces the slope and intercept terms for a linear equation.

y = ax + b

where:

y = instrument response (peak area or height)

a = Slope of the line (also called the coefficient of x)

x = Concentration of the calibration standard

b = the intercept, do not include the origin (0) as a calibration point

Equation 11: To calculate the sample concentration by the internal standard method using the linear regression.

$C_s=[(A_sC_{is}/A_{is})-b]/a$

where:

As = Area of the peak for the target analyte in the sample

Ais = Area of the peak of the internal standard

Cs = Concentration of the target analyte in the calibration standard

Cis = Concentration of the internal standard

a = Slope of the line (also called the coefficient of Cs)

b = The intercept

Equation 12: To calculate the coefficient of determination (or r^2) for a quadratic curve fit.

$$COD = \frac{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2 - \left(\frac{n-1}{n-p}\right)\sum_{i=1}^{n}(y_{obs} - Y_i)^2}{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2}$$

where:
y_{obs} = Observed response for each concentration from each initial calibration standard
y = Mean observed response from the initial calibration (See equation 6)
Y_i = Calculated response at each concentration from the initial calibration (See Equation 5)
n = Total number of calibration points in the equation, 6 points for quadratic
p = Number of adjustable parameters in the polynomial equation

Equation 13: Calculate the sample concentration by the internal standard method using the quadratic regression by comparing peak heights to the calibration curve.

Regression equation (quadratic):

$y = ax^2 + bx + c$

Equation 14: Percent Difference (%D). The % D in the RRF of the daily RRF of an individual compound compared to the mean RRF for that compound in the most recent calibration curve.

$$\%D = \frac{|R_i - R_c|}{R_i}(100)$$

where,

R_i=The average RRF from the initial calibration curve for compound *x*;
R_c=RRF for compound *x* from the CCV standard.

Equation 15: Calculate the percent recovery of the LCS.

$$\text{Percent Recovery} = \frac{C_q}{C_a}(100)$$

where:
C_q=Quantitated concentration of compound *x* in ppbv;
C_a=Actual concentration of compound *x* in ppbv.

Equation 16: Calculate the resultant dilution factor.

DF = (Pf + 14.7) / Pi + 14.7)

Pi = Pressure reading of canister prior to pressurization (psig)
Pf = Pressure reading of canister after pressurization (psig)
DF = Dilution factor

To convert Hg to psig:
Multiply by 0.491559 or divide by 2.036

PSIG reading is converted to One Atmosphere:
One Atmosphere = 14.7 psig = 29.21 inches of Hg

Equation 17: Calculate the concentration of the sample component.

$$C_x = \frac{(A_x)(C_i)(D_f)}{(A_i)(R_f)}$$

where:

C_x=Concentration of compound *x* in ppbv;
A_x=EICP area of the quantitation ion for compound *x*;
C_i=Concentration of the internal standard associated with compound *x* in ppbv;
D_f=Dilution factor from Equation 12 (if no dilution was performed, D_f equals 1.)
A_i=EICP area of the quantitation ion for the internal standard associated with compound *x*;
R_f=Average RRF for compound *x* from the most recent calibration curve.

Equation 18: The RPD between the sample and the sample duplicate.

$$RPD = \frac{|A - B|}{(A + B)/2} \times 100$$

Where:

RPD = Relative Percent Difference
A = Sample Value
B = Duplicate Value

Equation 19: Convert ppbv to µg/m³.

$$\frac{(x\ ppbv \times MW\frac{g}{mol})}{24.055\frac{L}{mol}} = y\frac{\mu g}{m^3}$$

Where:

MW = Molecular Weight
24.055 L/mol = Molar Volume of an ideal Gas

$$PV = nRT$$

$$V = \frac{nRT}{P}$$

Where:

V = Volume in liters
N = mols of ideal Gas (1 mol)
R = Ideal gas constant
T = Temperatire in Kelvin

$$V = \frac{(1mol) \times (0.082\ \frac{(L \times atm)}{(mol \times K)} \times 293.15K}{1\ atm}$$

$$V = 24.055\frac{L}{mol}$$

Equation 20: Preparation of Working TO15 Standard.

$$\frac{X}{Y} \times C = Z$$

Where:

X = Volume (L) spiked from stock
Y = Volume (L) of container
C = Concentration (ppbv) of Stock
Z = Concentration (ppbv) of working standard

DATA USABILITY SUMMARY REPORT
FEBRUARY/MARCH 2017 AIR SAMPLES
PROJECT: LMC GREAT NECK
NEW YORK
DATE SAMPLES COLLECTED: FEBRUARY 26, 2017

LAB REPORT No. 10380372

1.0 INTRODUCTION

Twenty-one air samples including two field duplicate pairs were collected by Tetra Tech, Inc., at the Lockheed Martin Great Neck site on February 26, 2017. The samples were sent to Pace Analytical Services, LLC in Minneapolis, Minnesota. All analyses were conducted in accordance with USEPA TO-15 analytical and reporting protocols.

The data package deliverables provided by the laboratory included a Category B deliverable as outlined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols.

Data validation was performed on the aforementioned samples in accordance with EPA Region II data validation guidelines and USEPA Method TO-15. Data validation was conducted using USEPA Region II Standard Operating Procedure (SOP) HW-31, September 2016, Revision 6.

The Data Usability Summary Report (DUSR) was prepared after the process of data validation was completed and summarizes the overall data quality and usability in accordance with the NYSDEC Technical Guidance for Site Investigation and Remediation (NYSDEC 2010).

The DUSR review is based on the following parameters:

- Data completeness
- * Hold times/Sample Preservation
- * GC/MS System Tuning and Performance
- Initial/continuing calibrations
- Laboratory Method Blank Results
- * Internal Standard Results
- Laboratory Control Sample Results
- * Laboratory Duplicate Precision
- Field Duplicate Precision
- * Compound Identification/Quantitation
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

This report was prepared to provide a critical review of the laboratory analysis and reported chemical results. Overall, the data quality is acceptable. The results of the DUSR are presented in Section 3.0. Summary tables are provided. Attachments 1, 2, and 3 are provided so that the data user can review the qualified analytical results, results reported by the laboratory and the supporting documentation associated with data findings and data quality.

2.0 SAMPLES INCLUDED IN REVIEW

Lab Report No. 10380372

Sample ID	Lab ID	Date Collected	Test Requested
LIJ-VP-7_10_20170226	10380372016	2/26/2017	VOCs
LIJ-VP-7_20_20170226	10380372017	2/26/2017	VOCs
LIJ-VP-7_40_20170226	10380372018	2/26/2017	VOCs
LIJ-VP-7_5_20170226	10380372015	2/26/2017	VOCs
LIJ-VP-7_50_20170226	10380372019	2/26/2017	VOCs
LIJ-VP-7_5_20170226DUP	10380372020	2/26/2017	VOCs
VP-102_19.5_20170226	10380372002	2/26/2017	VOCs
VP-102_51.5_20170226	10380372003	2/26/2017	VOCs
VP-102_57.5_20170226	10380372004	2/26/2017	VOCs
VP-102_61.5_20170226	10380372005	2/26/2017	VOCs
VP-102_73.5_20170226	10380372006	2/26/2017	VOCs
VP-102_73.5_20170226DUP	10380372021	2/26/2017	VOCs
VP-102_8.5_20170226	10380372001	2/26/2017	VOCs
VP-103_10_20170226	10380372008	2/26/2017	VOCs
VP-103_20_20170226	10380372009	2/26/2017	VOCs
VP-103_30_20170226	10380372010	2/26/2017	VOCs
VP-103_40_20170226	10380372011	2/26/2017	VOCs
VP-103_5_20170226	10380372007	2/26/2017	VOCs
VP-103_50_20170226	10380372012	2/26/2017	VOCs
VP-103_61.5_20170226	10380372013	2/26/2017	VOCs
VP-103_74.5_20170226	10380372014	2/26/2017	VOCs

Legend:

VOCs = Volatile Organic Compounds in accordance with EPA TO-15 Method

3.0 RESULTS

3.1 DATA COMPLETENESS

On the sample Chain of Custody (COC), the sample identification is LIJ-VP-7_5_20170226DUP, however, the laboratory logged it in as LIJ-VP-7_50_20170226DUP. The data validator contacted the laboratory to confirm the misidentification and revise the data package. The form was manually corrected in Attachment 2 - Results as Reported by the Laboratory by the data validator.

Clean canister certification samples should be included in every data package to verify the canister cleaning was performed according to method requirements. The laboratory was contacted and described that they perform canister cleaning on all sample containers but only provide analysis on a single canister on a batch basis. The laboratory was asked to provide the clean canister results, however, the clean canister results were not provided at the time of this report.

3.2 QUALITY CONTROL PARAMETERS

Hold Times/Sample Preservation: Technical hold times and preservation were assessed by comparing the sample dates and preservation code on the sample Chain of Custody (COC) with that of the analysis dates.

- All project samples were properly preserved and analyzed within the required hold time for VOC analyses.

GC/MS Performance Check (Tuning) Summary: Gas chromatograph/mass spectrometer (GC/MS) instrument tuning and performance checks are performed to ensure the instrument's ability to provide appropriate mass-resolution, identification and sensitivity.

- The BFB tuning compound mass-ion abundance criteria for the VOC analyses were reported within control limits.

Initial and Continuing Calibration Results: Control limits for initial and continuing instrument calibrations are established to ensure that the instrument is capable of producing accurate quantitative data.

- The continuing calibration performed on 03/10/2017 @ 14:46 had Percent Differences (%Ds) for 1,4-dioxane, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene and a Percent Drift (%Drift) for pentafluoroethyl chloride (chloropentafluoroethane) which exceeded the 30% quality control limit. Samples VP-102_19.5_20170226, VP-102_51.5_20170226, VP-102_57.5_20170226, VP-102_61.5_20170226, VP-102_73.5_20170226, VP-102_8.5_20170226, VP-103_10_20170226, and VP-103_5_20170226 were affected. The detected and non-detected results reported for these compounds in the affected samples were qualified as estimated, (J) and (UJ), respectively.

- The continuing calibration performed on 03/11/2017 @ 10:37 had %Ds for carbon tetrachloride, dibromochloromethane, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, and hexachlorobutadiene and a %Drift for pentafluoroethyl chloride which exceeded the 30% quality control limit. Samples LIJ-VP-7_10_20170226, LIJ-VP-7_20_20170226, LIJ-VP-7_40_20170226, LIJ-VP-7_5_20170226, LIJ-VP-7_50_20170226, LIJ-VP-7_50_20170226DUP, VP-102_73.5_20170226DUP, VP-103_20_20170226, VP-103_30_20170226, VP-103_40_20170226, VP-103_50_20170226, VP-103_61.5_20170226, and VP-103_74.5_20170226 were affected. The detected and non-detected results reported for these compounds in the affected samples were qualified as estimated, (J) and (UJ), respectively.

- The initial calibration Percent Relative Standard Deviations (%RSDs) were below the 30% quality control criterion. All initial and continuing calibration Relative Response Factors (RRFs) were within acceptable quality control limits for the parameters reviewed.

Laboratory Method Blank Contamination:

- No target compound contaminants were detected in the laboratory method blanks associated with the reviewed parameters in this data set.

- Methylene chloride was detected in 20 of 21 samples. Methylene chloride was not reported or detected in the associated laboratory method blanks. Despite the absence of methylene chloride in the method blanks, the data reviewer has qualified all methylene chloride detections as estimated, (J) considering them suspected laboratory contaminants.

Internal Standards Area Performance:

- The internal standard area counts and retention times fell within control limits for the project samples received and reviewed.

Laboratory Control Spike (LCS) Results:

- The LCS associated with preparation batch #463555 had Percent Recoveries (%Rs) for 1,2,4-trichlorobenzene and isopropanol (2-propanol) above the upper quality control limits. Samples associated with this preparation batch were affected. No action was taken for 1,2,4-trichlorobenzene because this compound was not detected in the associated samples. The detected results reported for isopropanol in the affected samples were qualified as estimated, (J).

- The LCS associated with preparation batch # 463593 had a %R for 1,2,4-trichlorobenzene above the upper quality control limit. Samples associated with this preparation batch were affected. No action was taken for 1,2,4-trichlorobenzene because this compound was not detected in the affected samples.

- The remaining LCS results associated with the samples were within the quality control limits, verifying the overall accuracy and precision associated with the parameters reviewed in a clean matrix.

Laboratory Duplicate Precision: Laboratory duplicates are analyzed to provide information on laboratory analysis precision.

- VP-102_19.5_20170226 was analyzed as a laboratory duplicate sample. The Relative Percent Differences (RPDs) were below the 25% quality control criterion for all detected results verifying laboratory duplicate precision.

Field Duplicate Precision: Field duplicates are collected to provide information on sampling precision.

- LIJ-VP-7_5_20170226DUP was collected as a field duplicate sample of LIJ-VP-7_5_20170226. The Relative Percent Differences (RPDs) for acetone, dichlorodifluoromethane, and toluene 50% quality control limit. In addition, the differences between detected results (where one sample result was less than 2X the Reporting Limit (RL)) for hexane and methylene chloride exceeded 2X the RL. The detected results reported for these compounds in the field duplicate pair were qualified as

estimated, (J), due to field duplicate imprecision. The remaining results associated with these two samples fell within quality control limits, thereby satisfying precision.

- VP-102_73.5_20170226DUP was collected as a field duplicate sample of VP-102_73.5_20170226. The results associated with these two samples fell within quality control limits, thereby satisfying precision.

Target Compound Identification and Quantitation: The laboratory calculations are verified and compound identifications are reviewed and assessed by the data reviewer.

- The GC/MS raw data (quantitation reports and chromatograms) were provided for review. No laboratory calculation errors were noted for the sample selected for verification during data validation.

Detection Limits: Non-detected results were reported to the RL. All samples were initially diluted approximately 2X (1.68X to 2.45X). The RLs of the non-detected results were elevated.

- Chlorodifluoromethane exceeded the calibration range of the instrument in sample EP-M10_20170302. The result was qualified as estimated, (J).

- The following samples were further diluted due to concentrations of target compounds:

Sample	Compound	Dilution
LIJ-VP-7_20_20170226	Tetrachloroethene	153.6X
	Trichloroethene	
LIJ-VP-7_40_20170226	cis-1,2-Dichloroethene	1120X
	Tetrachloroethene	
	Trichloroethene	
LIJ-VP-7_5_20170226	Methylene Chloride	45.02X
LIJ-VP-7_50_20170226	cis-1,2-Dichloroethene	140X
	Tetrachloroethene	
	Trichloroethene	
VP-102_51.5_20170226	Trichloroethene	23.45X
VP-102_57.5_20170226	Trichloroethene	40.99X
VP-102_61.5_20170226	Trichloroethene	18.3X
VP-103_30_20170226	Methylene Chloride	65.72X
VP-103_40_20170226	Trichloroethene	8.75X
VP-103_50_20170226	Trichloroethene	9.15X
VP-103_61.5_20170226	Methylene Chloride	5.67X
VP-103_74.5_20170226	Methylene Chloride	62.85X

The results from the diluted analyses were used in the data review.

- Detected results reported below the RL but above the Method Detection Limit (MDL) were qualified as estimated, (J).

Additional Comments: According to the laboratory, the sample canisters were batch certified. All sample canisters contained an initial vacuum of approximately -30 psig (-28 to -30 psig) and finished at -7.5 to -9.5 psig.

4.0 CONCLUSIONS

Overall, based on the outcome of data validation and as summarized in the DUSR and with the exception to the presence of methylene chloride which may be a laboratory contaminant, the data quality is acceptable with the qualifiers noted in this report.

Tetra Tech, Inc.
Michelle L. Allen
Chemist/Data Validator

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

May 31, 2017

Attachments:
Attachment 1 – Qualified Analytical Results
Attachment 2 – Results as Reported by the Laboratory
Attachment 3 – Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Attachment 1

Qualified Analytical Results

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed
Z3 = Tentatively Identified Compound aldol condensate
Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 07792	NSAMPLE	LIJ-VP-7_10_20170226			LIJ-VP-7_20_20170226			LIJ-VP-7_20_20170226-DL			LIJ-VP-7_40_20170226		
SDG: 10380372	LAB_ID	10380372016			10380372017			10380372017			10380372018		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.9	U		2.1	U					2		
1,1,2,2-TETRACHLOROETHANE		1.2	U		1.3	U					1.2	U	
1,1,2-TRICHLOROETHANE		0.92	U		1.1	U					9.2		
1,1,2-TRICHLOROTRIFLUOROETHANE		2.7	U		50						62.7		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.3	U		6.1	U					5.6	U	
1,1-DICHLOROETHANE		1.4	U		1.6	U					1.4	U	
1,1-DICHLOROETHENE		1.4	U		1.6	U					2.4		
1,2,4-TRICHLOROBENZENE		6.3	UJ	C	7.2	UJ	C				6.6	UJ	C
1,2,4-TRIMETHYLBENZENE		1.5	J	P	1.3	J	P				1.1	J	P
1,2-DIBROMO-3-CHLOROPROPANE		8.2	UJ	C	9.4	UJ	C				8.6	UJ	C
1,2-DIBROMOETHANE		2.6	U		3	U					2.7	U	
1,2-DICHLOROBENZENE		2	U		2.3	U					2.1	U	
1,2-DICHLOROETHANE		0.69	U		0.79	U					1		
1,2-DICHLOROPROPANE		1.6	U		1.8	U					1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.4	U		2.7	U					2.5	U	
1,3,5-TRIMETHYLBENZENE		0.79	J	P	1.9	U					0.57	J	P
1,3-BUTADIENE		0.76	U		0.86	U					0.79	U	
1,3-DICHLOROBENZENE		2	U		2.3	U					2.1	U	
1,4-DICHLOROBENZENE		2	U		2.3	U					2.1	U	
1,4-DIOXANE		6.1	U		7	U					6.4	U	
1-ETHYL-4-METHYL BENZENE		1.7	U		1.9	U					1.8	U	
2-BUTANONE		2.3	J	P	5.8	U					2.1	J	P
2-HEXANONE		7	U		8	U					7.3	U	
3-CHLOROPROPENE		2.7	U		3.1	U					2.8	U	
4-METHYL-2-PENTANONE		7	U		8	U					7.3	U	
ACETONE		13			11.6	U					16.4		
BENZENE		0.49	J	P	0.84						2.5		
BROMODICHLOROMETHANE		2.3	U		2.6	U					2.4	U	
BROMOFORM		8.8	U		10.1	U					9.2	U	
BROMOMETHANE		1.3	U		1.5	U					1.4	U	
CARBON DISULFIDE		1.1	U		1.2	U					1.1		
CARBON TETRACHLORIDE		1.1	UJ	C	1.2	UJ	C				2.4	J	C
CHLOROBENZENE		1.6	U		1.8	U					1.6	U	
CHLORODIBROMOMETHANE		2.9	UJ	C	3.3	UJ	C				3	UJ	C
CHLORODIFLUOROMETHANE		35.3			1.4	U					1.3	U	

PROJ_NO: 07792	NSAMPLE	LIJ-VP-7_40_20170226-DL			LIJ-VP-7_5_20170226			LIJ-VP-7_5_20170226-DL			LIJ-VP-7_5_20170226DUP		
SDG: 10380372	LAB_ID	10380372018			10380372015			10380372015			10380372020		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF										LIJ-VP-7_5_20170226		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					1.9	U					1.9	U	
1,1,2,2-TETRACHLOROETHANE					1.2	U					1.2	U	
1,1,2-TRICHLOROETHANE					0.92	U					0.96	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					2.7	U					2.8	U	
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					5.3	U					5.6	U	
1,1-DICHLOROETHANE					1.4	U					1.4	U	
1,1-DICHLOROETHENE					1.4	U					1.4	U	
1,2,4-TRICHLOROBENZENE					6.3	UJ	C				6.6	UJ	C
1,2,4-TRIMETHYLBENZENE					4.4						1.6	J	P
1,2-DIBROMO-3-CHLOROPROPANE					8.2	UJ	C				8.6	UJ	C
1,2-DIBROMOETHANE					2.6	U					2.7	U	
1,2-DICHLOROBENZENE					2	U					2.1	U	
1,2-DICHLOROETHANE					0.69	U					0.72	U	
1,2-DICHLOROPROPANE					1.6	U					1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE					2.4	U					2.5	U	
1,3,5-TRIMETHYLBENZENE					2						1.7	U	
1,3-BUTADIENE					0.76	U					0.79	U	
1,3-DICHLOROBENZENE					2	U					2.1	U	
1,4-DICHLOROBENZENE					2	U					2.1	U	
1,4-DIOXANE					6.1	U					6.4	U	
1-ETHYL-4-METHYL BENZENE					1.5	J	P				1.8	U	
2-BUTANONE					5	U					3	J	P
2-HEXANONE					7	U					7.3	U	
3-CHLOROPROPENE					2.7	U					2.8	U	
4-METHYL-2-PENTANONE					7	U					7.3	U	
ACETONE					60.4	J	G				19.8	J	G
BENZENE					2.4						0.52	J	P
BROMODICHLOROMETHANE					2.3	U					2.4	U	
BROMOFORM					8.8	U					9.2	U	
BROMOMETHANE					1.3	U					1.4	U	
CARBON DISULFIDE					1.1	U					1.1	U	
CARBON TETRACHLORIDE					1.1	UJ	C				1.1	UJ	C
CHLOROBENZENE					1.6	U					1.6	U	
CHLORODIBROMOMETHANE					2.9	UJ	C				3	UJ	C
CHLORODIFLUOROMETHANE					24.9						37		

PROJ_NO: 07792	NSAMPLE	LIJ-VP-7_5_20170226DUP-RE			LIJ-VP-7_50_20170226			LIJ-VP-7_50_20170226-DL			VP-102_19.5_20170226		
SDG: 10380372	LAB_ID	10380372020			10380372019			10380372019			10380372002		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF	LIJ-VP-7_5_20170226											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					2						2	U	
1,1,2,2-TETRACHLOROETHANE					1.2	U					1.3	U	
1,1,2-TRICHLOROETHANE					0.96	U					1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					18.3						0.99	J	P
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					5.6	U					5.8	U	
1,1-DICHLOROETHANE					1.4	U					1.5	U	
1,1-DICHLOROETHENE					0.74	J	P				1.5	U	
1,2,4-TRICHLOROBENZENE					6.6	UJ	C				6.9	UJ	C
1,2,4-TRIMETHYLBENZENE					1.3	J	P				0.83	J	P
1,2-DIBROMO-3-CHLOROPROPANE					8.6	UJ	C				9	UJ	C
1,2-DIBROMOETHANE					2.7	U					2.9	U	
1,2-DICHLOROBENZENE					2.1	U					2.2	U	
1,2-DICHLOROETHANE					0.72	U					0.75	U	
1,2-DICHLOROPROPANE					1.6	U					1.7	U	
1,2-DICHLOROTETRAFLUOROETHANE					2.5	U					2.6	U	
1,3,5-TRIMETHYLBENZENE					1.7	U					1.8	U	
1,3-BUTADIENE					0.79	U					0.82	U	
1,3-DICHLOROBENZENE					2.1	U					2.2	U	
1,4-DICHLOROBENZENE					2.1	U					2.2	U	
1,4-DIOXANE					6.4	U					6.7	UJ	C
1-ETHYL-4-METHYL BENZENE					1.8	U					1.8	U	
2-BUTANONE					1	J	P				0.99	J	P
2-HEXANONE					7.3	U					7.6	U	
3-CHLOROPROPENE					2.8	U					2.9	U	
4-METHYL-2-PENTANONE					7.3	U					7.6	U	
ACETONE					5.3	J	P				4.2	J	P
BENZENE					0.57	U					0.59	U	
BROMODICHLOROMETHANE					1.3	J	P				2.5	U	
BROMOFORM					9.2	U					9.6	U	
BROMOMETHANE					1.4	U					1.4	U	
CARBON DISULFIDE					1.1	U					1.2	U	
CARBON TETRACHLORIDE					1.9	J	C				0.54	J	P
CHLOROBENZENE					1.6	U					1.7	U	
CHLORODIBROMOMETHANE					3	UJ	C				3.2	U	
CHLORODIFLUOROMETHANE					14.7						32.2		

PROJ_NO: 07792	NSAMPLE	VP-102_51.5_20170226			VP-102_51.5_20170226-DL			VP-102_57.5_20170226			VP-102_57.5_20170226-DL		
SDG: 10380372	LAB_ID	10380372003			10380372003			10380372004			10380372004		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.4	J	P				1.3	J	P			
1,1,2,2-TETRACHLOROETHANE		1.2	U					1.3	U				
1,1,2-TRICHLOROETHANE		0.96	U					1	U				
1,1,2-TRICHLOROTRIFLUOROETHANE		11.4						12.2					
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	U					5.8	U				
1,1-DICHLOROETHANE		1.4	U					1.5	U				
1,1-DICHLOROETHENE		1.4	U					1.5	U				
1,2,4-TRICHLOROBENZENE		6.6	UJ	C				6.9	UJ	C			
1,2,4-TRIMETHYLBENZENE		0.76	J	P				0.7	J	P			
1,2-DIBROMO-3-CHLOROPROPANE		8.6	UJ	C				9	UJ	C			
1,2-DIBROMOETHANE		2.7	U					2.9	U				
1,2-DICHLOROBENZENE		2.1	U					2.2	U				
1,2-DICHLOROETHANE		0.72	U					0.75	U				
1,2-DICHLOROPROPANE		1.6	U					1.7	U				
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U					2.6	U				
1,3,5-TRIMETHYLBENZENE		1.7	U					1.8	U				
1,3-BUTADIENE		0.79	U					0.82	U				
1,3-DICHLOROBENZENE		2.1	U					2.2	U				
1,4-DICHLOROBENZENE		2.1	U					2.2	U				
1,4-DIOXANE		6.4	UJ	C				6.7	UJ	C			
1-ETHYL-4-METHYL BENZENE		1.8	U					1.8	U				
2-BUTANONE		2	J	P				1.2	J	P			
2-HEXANONE		7.3	U					7.6	U				
3-CHLOROPROPENE		2.8	U					2.9	U				
4-METHYL-2-PENTANONE		7.3	U					7.6	U				
ACETONE		153						15.1					
BENZENE		0.94						0.48	J	P			
BROMODICHLOROMETHANE		0.89	J	P				0.89	J	P			
BROMOFORM		9.2	U					9.6	U				
BROMOMETHANE		1.4	U					1.4	U				
CARBON DISULFIDE		1.1	U					1.2	U				
CARBON TETRACHLORIDE		0.71	J	P				0.71	J	P			
CHLOROBENZENE		1.6	U					1.7	U				
CHLORODIBROMOMETHANE		3	U					3.2	U				
CHLORODIFLUOROMETHANE		1.3	U					1.3	U				

PROJ_NO: 07792	NSAMPLE	VP-102_61.5_20170226			VP-102_61.5_20170226-DL			VP-102_73.5_20170226			VP-102_73.5_20170226DUP		
SDG: 10380372	LAB_ID	10380372005			10380372005			10380372006			10380372021		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF										VP-102_73.5_20170226		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.3	J	P				1.9	U		2	U	
1,1,2,2-TETRACHLOROETHANE		1.3	U					1.2	U		1.3	U	
1,1,2-TRICHLOROETHANE		1	U					0.96	U		1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		12.2						2.8	U		2.9	U	
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.8	U					5.6	U		5.8	U	
1,1-DICHLOROETHANE		1.5	U					1.4	U		1.5	U	
1,1-DICHLOROETHENE		1.5	U					1.4	U		1.5	U	
1,2,4-TRICHLOROBENZENE		6.9	UJ	C				6.6	UJ	C	6.9	UJ	C
1,2,4-TRIMETHYLBENZENE		1.3	J	P				0.95	J	P	1.6	J	P
1,2-DIBROMO-3-CHLOROPROPANE		9	UJ	C				8.6	UJ	C	9	UJ	C
1,2-DIBROMOETHANE		2.9	U					2.7	U		2.9	U	
1,2-DICHLOROBENZENE		2.2	U					2.1	U		2.2	U	
1,2-DICHLOROETHANE		0.75	U					0.72	U		0.75	U	
1,2-DICHLOROPROPANE		1.7	U					1.6	U		1.7	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.6	U					2.5	U		2.6	U	
1,3,5-TRIMETHYLBENZENE		1.8	U					0.41	J	P	0.77	J	P
1,3-BUTADIENE		0.82	U					0.79	U		0.82	U	
1,3-DICHLOROBENZENE		2.2	U					2.1	U		2.2	U	
1,4-DICHLOROBENZENE		2.2	U					2.1	U		2.2	U	
1,4-DIOXANE		6.7	UJ	C				6.4	UJ	C	6.7	U	
1-ETHYL-4-METHYL BENZENE		1.8	U					1.8	U		1.8	U	
2-BUTANONE		11.4						2.5	J	P	1.6	J	P
2-HEXANONE		1.3	J	P				0.93	J	P	7.6	U	
3-CHLOROPROPENE		2.9	U					2.8	U		2.9	U	
4-METHYL-2-PENTANONE		2.2	J	P				7.3	U		7.6	U	
ACETONE		79.4						22			17.1		
BENZENE		0.58	J	P				0.5	J	P	0.53	J	P
BROMODICHLOROMETHANE		2.5	U					2.4	U		2.5	U	
BROMOFORM		9.6	U					9.2	U		9.6	U	
BROMOMETHANE		1.4	U					1.4	U		1.4	U	
CARBON DISULFIDE		1.2	U					1.1	U		1.2	U	
CARBON TETRACHLORIDE		0.69	J	P				1.1	U		1.2	UJ	C
CHLOROBENZENE		1.7	U					1.6	U		1.7	U	
CHLORODIBROMOMETHANE		3.2	U					3	U		3.2	UJ	C
CHLORODIFLUOROMETHANE		1.3	U					21.9			23		

PROJ_NO: 07792	NSAMPLE	VP-102_8.5_20170226			VP-103_10_20170226			VP-103_20_20170226			VP-103_30_20170226		
SDG: 10380372	LAB_ID	10380372001			10380372008			10380372009			10380372010		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.9	U		1.9	U		2	U		2.7	U	
1,1,2,2-TETRACHLOROETHANE		1.2	U		1.2	U		1.3	U		1.7	U	
1,1,2-TRICHLOROETHANE		0.96	U		0.96	U		1	U		1.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.8	U		0.72	J	P	2.9	U		8.1		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	U		5.6	U		5.8	U		7.8	U	
1,1-DICHLOROETHANE		1.4	U		6.4			1.5	U		2	U	
1,1-DICHLOROETHENE		1.4	U		1.4	U		1.5	U		2	U	
1,2,4-TRICHLOROBENZENE		6.6	UJ	C	6.6	UJ	C	6.9	UJ	C	9.2	UJ	C
1,2,4-TRIMETHYLBENZENE		1.7	U		0.79	J	P	2.1			4.3		
1,2-DIBROMO-3-CHLOROPROPANE		8.6	UJ	C	8.6	UJ	C	9	UJ	C	12	UJ	C
1,2-DIBROMOETHANE		2.7	U		2.7	U		2.9	U		3.8	U	
1,2-DICHLOROBENZENE		2.1	U		2.1	U		2.2	U		3	U	
1,2-DICHLOROETHANE		0.72	U		0.72	U		0.75	U		1	U	
1,2-DICHLOROPROPANE		1.6	U		1.6	U		1.7	U		2.3	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U		1.4	J	P	2.6	U		3.5	U	
1,3,5-TRIMETHYLBENZENE		1.7	U		1.7	U		0.93	J	P	1.4	J	P
1,3-BUTADIENE		0.79	U		0.79	U		0.82	U		1.1	U	
1,3-DICHLOROBENZENE		2.1	U		2.1	U		2.2	U		3	U	
1,4-DICHLOROBENZENE		2.1	U		2.1	U		2.2	U		3	U	
1,4-DIOXANE		6.4	UJ	C	6.4	UJ	C	6.7	U		9	U	
1-ETHYL-4-METHYL BENZENE		1.8	U		1.8	U		1.8	U		2	J	P
2-BUTANONE		2.3	J	P	4.2	J	P	1.1	J	P	12.1		
2-HEXANONE		7.3	U		7.3	U		7.6	U		3.4	J	P
3-CHLOROPROPENE		2.8	U		2.8	U		2.9	U		3.9	U	
4-METHYL-2-PENTANONE		7.3	U		0.88	J	P	7.6	U		1.8	J	P
ACETONE		216			11.9			16.3			168		
BENZENE		3.4			0.29	J	P	0.49	J	P	3.4		
BROMODICHLOROMETHANE		2.4	U		2.4	U		2.5	U		3.3	U	
BROMOFORM		9.2	U		9.2	U		9.6	U		12.9	U	
BROMOMETHANE		1.4	U		1.4	U		1.4	U		1.9	U	
CARBON DISULFIDE		1.1	U		1.1	U		1.2	U		1.4	J	P
CARBON TETRACHLORIDE		1.1	U		0.57	J	P	1.2	U	C	6.6	J	C
CHLOROBENZENE		1.6	U		1.6	U		1.7	U		2.3	U	
CHLORODIBROMOMETHANE		3	U		3	U		3.2	UJ	C	4.2	UJ	C
CHLORODIFLUOROMETHANE		15.5			3.1			1.7			20.1		

PROJ_NO: 07792	NSAMPLE	VP-103_30_20170226-DL			VP-103_40_20170226			VP-103_40_20170226-DL			VP-103_5_20170226		
SDG: 10380372	LAB_ID	10380372010			10380372011			10380372011			10380372007		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					1.1	J	P				2	U	
1,1,2,2-TETRACHLOROETHANE					1.2	U					1.3	U	
1,1,2-TRICHLOROETHANE					0.96	U					1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					10.8						2.9	U	
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					5.6	U					5.8	U	
1,1-DICHLOROETHANE					1.4	U					1.5	U	
1,1-DICHLOROETHENE					1.4	U					1.5	U	
1,2,4-TRICHLOROBENZENE					6.6	UJ	C				6.9	UJ	C
1,2,4-TRIMETHYLBENZENE					1.7	J	P				1.7	J	P
1,2-DIBROMO-3-CHLOROPROPANE					8.6	UJ	C				9	UJ	C
1,2-DIBROMOETHANE					2.7	U					2.9	U	
1,2-DICHLOROBENZENE					2.1	U					2.2	U	
1,2-DICHLOROETHANE					0.72	U					0.75	U	
1,2-DICHLOROPROPANE					1.6	U					1.7	U	
1,2-DICHLOROTETRAFLUOROETHANE					2.5	U					2.6	U	
1,3,5-TRIMETHYLBENZENE					1.7	U					0.69	J	P
1,3-BUTADIENE					0.79	U					0.82	U	
1,3-DICHLOROBENZENE					2.1	U					2.2	U	
1,4-DICHLOROBENZENE					2.1	U					2.2	U	
1,4-DIOXANE					6.4	U					6.7	UJ	C
1-ETHYL-4-METHYL BENZENE					1.8	U					0.61	J	P
2-BUTANONE					2.2	J	P				2.7	J	P
2-HEXANONE					7.3	U					7.6	U	
3-CHLOROPROPENE					2.8	U					2.9	U	
4-METHYL-2-PENTANONE					7.3	U					7.6	U	
ACETONE					12.1						182		
BENZENE					0.57	U					1.9		
BROMODICHLOROMETHANE					0.96	J	P				2.5	U	
BROMOFORM					9.2	U					9.6	U	
BROMOMETHANE					1.4	U					1.4	U	
CARBON DISULFIDE					0.79	J	P				1.2	U	
CARBON TETRACHLORIDE					9.5	J	C				1.2	U	
CHLOROBENZENE					1.6	U					1.7	U	
CHLORODIBROMOMETHANE					3	UJ	C				3.2	U	
CHLORODIFLUOROMETHANE					20.8						12.2		

PROJ_NO: 07792	NSAMPLE	VP-103_5_20170226-RE			VP-103_50_20170226			VP-103_50_20170226-DL			VP-103_61.5_20170226		
SDG: 10380372	LAB_ID	10380372007			10380372012			10380372012			10380372013		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					1.1	J	P				2.4	U	
1,1,2,2-TETRACHLOROETHANE					1.3	U					1.5	J	P
1,1,2-TRICHLOROETHANE					1	U					1.2	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					8.2						5.6		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					5.8	U					6.7	U	
1,1-DICHLOROETHANE					1.5	U					1.7	U	
1,1-DICHLOROETHENE					1.5	U					1.7	U	
1,2,4-TRICHLOROBENZENE					6.9	UJ	C				8	UJ	C
1,2,4-TRIMETHYLBENZENE					1.4	J	P				4.4		
1,2-DIBROMO-3-CHLOROPROPANE					9	UJ	C				10.4	UJ	C
1,2-DIBROMOETHANE					2.9	U					3.3	U	
1,2-DICHLOROBENZENE					2.2	U					2.6	U	
1,2-DICHLOROETHANE					0.75	U					0.87	U	
1,2-DICHLOROPROPANE					1.7	U					2	U	
1,2-DICHLOROTETRAFLUOROETHANE					2.6	U					3	U	
1,3,5-TRIMETHYLBENZENE					1.8	U					2.1	J	P
1,3-BUTADIENE					0.82	U					0.95	U	
1,3-DICHLOROBENZENE					2.2	U					2.6	U	
1,4-DICHLOROBENZENE					2.2	U					2.6	U	
1,4-DIOXANE					6.7	U					7.8	U	
1-ETHYL-4-METHYL BENZENE					1.8	U					1.9	J	P
2-BUTANONE					2.7	J	P				5.8	J	P
2-HEXANONE					1.3	J	P				1.5	J	P
3-CHLOROPROPENE					2.9	U					3.4	U	
4-METHYL-2-PENTANONE					7.6	U					8.8	U	
ACETONE					21.8						92.1		
BENZENE					0.59	U					2.8		
BROMODICHLOROMETHANE					1	J	P				2.9	U	
BROMOFORM					9.6	U					6.1	J	P
BROMOMETHANE					1.4	U					1.7	U	
CARBON DISULFIDE					1.2	U					1.3	U	
CARBON TETRACHLORIDE					3.7	J	C				3.1	J	C
CHLOROBENZENE					1.7	U					2	U	
CHLORODIBROMOMETHANE					3.2	UJ	C				3.7	UJ	C
CHLORODIFLUOROMETHANE					1.3	U					1.5	U	

PROJ_NO: 07792	NSAMPLE	VP-103_61.5_20170226-DL			VP-103_74.5_20170226			VP-103_74.5_20170226-DL		
SDG: 10380372	LAB_ID	10380372013			10380372014			10380372014		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS									
	DUP_OF									

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE				2.6	U				
1,1,2,2-TETRACHLOROETHANE				1.6	U				
1,1,2-TRICHLOROETHANE				1.3	U				
1,1,2-TRICHLOROTRIFLUOROETHANE				3	J	P			
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE				7.5	U				
1,1-DICHLOROETHANE				1.9	U				
1,1-DICHLOROETHENE				1.9	U				
1,2,4-TRICHLOROBENZENE				8.9	UJ	C			
1,2,4-TRIMETHYLBENZENE				4.7					
1,2-DIBROMO-3-CHLOROPROPANE				11.5	UJ	C			
1,2-DIBROMOETHANE				3.7	U				
1,2-DICHLOROBENZENE				2.9	U				
1,2-DICHLOROETHANE				0.96	U				
1,2-DICHLOROPROPANE				2.2	U				
1,2-DICHLOROTETRAFLUOROETHANE				3.3	U				
1,3,5-TRIMETHYLBENZENE				1.7	J	P			
1,3-BUTADIENE				1.1	U				
1,3-DICHLOROBENZENE				2.9	U				
1,4-DICHLOROBENZENE				2.9	U				
1,4-DIOXANE				8.6	U				
1-ETHYL-4-METHYL BENZENE				1.4	J	P			
2-BUTANONE				2.6	J	P			
2-HEXANONE				9.8	U				
3-CHLOROPROPENE				3.7	U				
4-METHYL-2-PENTANONE				9.8	U				
ACETONE				96.6					
BENZENE				4					
BROMODICHLOROMETHANE				3.2	U				
BROMOFORM				12.3	U				
BROMOMETHANE				1.9	U				
CARBON DISULFIDE				1.5	U				
CARBON TETRACHLORIDE				2	J	C			
CHLOROBENZENE				2.2	U				
CHLORODIBROMOMETHANE				4.1	UJ	C			
CHLORODIFLUOROMETHANE				1.7	U				

PROJ_NO: 07792	NSAMPLE	LIJ-VP-7_10_20170226			LIJ-VP-7_20_20170226			LIJ-VP-7_20_20170226-DL			LIJ-VP-7_40_20170226		
SDG: 10380372	LAB_ID	10380372016			10380372017			10380372017			10380372018		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.91	U		1	U					0.94	U	
CHLOROFORM		0.83	U		12						136		
CHLOROMETHANE		1			0.81	U					0.74	U	
CIS-1,2-DICHLOROETHENE		1.4	U		156								
CIS-1,3-DICHLOROPROPENE		1.5	U		1.8	U					1.6	U	
CYCLOHEXANE		0.81	J	P	1.3	U					2.4		
DICHLORODIFLUOROMETHANE		3.1			2.8						2.7		
ETHYLBENZENE		3.3			1.7	U					1.2	J	P
HEXACHLOROBUTADIENE		3.6	UJ	C	4.2	UJ	C				3.8	UJ	C
HEXANE		1.7			0.95	J	P				3.7		
ISOPROPANOL		39.6			4.2	J	P				7.4		
ISOPROPYLBENZENE		4.2	U		4.8	U					4.4	U	
M+P-XYLENES		11.2			1.5	J	P				1.8	J	P
METHYL ACETATE		2.6	U		3	U					2.7	U	
METHYL CYCLOHEXANE		1.4	U		1.6	U					1.4	U	
METHYL TERT-BUTYL ETHER		6.2	U		7	U					6.4	U	
METHYLENE CHLORIDE		14	J	A	2.8	J	AP				1.5	J	AP
O-XYLENE		3			0.95	J	P				0.84	J	P
PENTAFLUOROETHYL CHLORIDE		5.4	UJ	C	6.2	UJ	C				5.6	UJ	C
STYRENE		1.5	U		1.7	U					1.5	U	
TETRACHLOROETHENE		1.1	J	P				4570					
TOLUENE		2.1			1	J	P				2.4		
TRANS-1,2-DICHLOROETHENE		1.4	U		3.8						48.4		
TRANS-1,3-DICHLOROPROPENE		1.5	U		1.8	U					1.6	U	
TRICHLOROETHENE		0.92	U					3320					
TRICHLOROFLUOROMETHANE		1.5	J	P	2.5						3.4		
VINYL CHLORIDE		0.44	U		0.5	U					0.46	U	

PROJ_NO: 07792	NSAMPLE	LIJ-VP-7_40_20170226-DL			LIJ-VP-7_5_20170226			LIJ-VP-7_5_20170226-DL			LIJ-VP-7_5_20170226DUP		
SDG: 10380372	LAB_ID	10380372018			10380372015			10380372015			10380372020		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF										LIJ-VP-7_5_20170226		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					0.91	U					0.94	U	
CHLOROFORM					0.83	U					0.87	U	
CHLOROMETHANE					0.71	U					0.95		
CIS-1,2-DICHLOROETHENE		5200			1.4	U					1.4	U	
CIS-1,3-DICHLOROPROPENE					1.5	U					1.6	U	
CYCLOHEXANE					2.1						0.69	J	P
DICHLORODIFLUOROMETHANE					5.1	J	G				3		G
ETHYLBENZENE					3.2						3.3		
HEXACHLOROBUTADIENE					3.6	UJ	C				3.8	UJ	C
HEXANE					40.5						1.4	J	G
ISOPROPANOL					22.2						31.5		
ISOPROPYLBENZENE					4.2	U					4.4	U	
M+P-XYLENES					12.6						11.5		
METHYL ACETATE					2.6	U					2.7	U	
METHYL CYCLOHEXANE					1.1	J	P				1.4	U	
METHYL TERT-BUTYL ETHER					6.2	U					6.4	U	
METHYLENE CHLORIDE								176	J	AG	11.9	J	AG
O-XYLENE					3.9						3.1		
PENTAFLUOROETHYL CHLORIDE					5.4	UJ	C				5.6	UJ	C
STYRENE					1.5	U					1.5	U	
TETRACHLOROETHENE		13400			1.2	U					1.2	U	
TOLUENE					10.4	J	G				2.7	J	G
TRANS-1,2-DICHLOROETHENE					1.4	U					1.4	U	
TRANS-1,3-DICHLOROPROPENE					1.5	U					1.6	U	
TRICHLOROETHENE		18000			0.92	U							
TRICHLOROFLUOROMETHANE					2.8						1.7	J	P
VINYL CHLORIDE					0.44	U					0.46	U	

PROJ_NO: 07792	NSAMPLE	LIJ-VP-7_5_20170226DUP-RE			LIJ-VP-7_50_20170226			LIJ-VP-7_50_20170226-DL			VP-102_19.5_20170226		
SDG: 10380372	LAB_ID	10380372020			10380372019			10380372019			10380372002		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF	LIJ-VP-7_5_20170226											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					0.94	U					0.99	U	
CHLOROFORM					19.4						0.91	U	
CHLOROMETHANE					0.74	U					0.77	U	
CIS-1,2-DICHLOROETHENE								210			1.5	U	
CIS-1,3-DICHLOROPROPENE					1.6	U					1.7	U	
CYCLOHEXANE					1.2	U					1.3	U	
DICHLORODIFLUOROMETHANE					2.9						2.8		
ETHYLBENZENE					0.91	J	P				1.6	U	
HEXACHLOROBUTADIENE					3.8	UJ	C				4	U	
HEXANE					1.3						1.1	J	P
ISOPROPANOL					7.4						11.6	J	E
ISOPROPYLBENZENE					4.4	U					0.26	J	P
M+P-XYLENES					2.3	J	P				2	J	P
METHYL ACETATE					2.7	U					2.8	U	
METHYL CYCLOHEXANE					1.4	U					1.5	U	
METHYL TERT-BUTYL ETHER					1.4	J	P				6.7	U	
METHYLENE CHLORIDE					6.8	J	A				7.3	J	A
O-XYLENE					1.1	J	P				0.87	J	P
PENTAFLUOROETHYL CHLORIDE					5.6	UJ	C				10.4	J	C
STYRENE					1.5	U					1.6	U	
TETRACHLOROETHENE								2150			3.1		
TOLUENE					11.1						8.4		
TRANS-1,2-DICHLOROETHENE					3.5						1.5	U	
TRANS-1,3-DICHLOROPROPENE					1.6	U					1.7	U	
TRICHLOROETHENE		0.96	U					2440			1.9		
TRICHLOROFLUOROMETHANE					2.9						1.5	J	P
VINYL CHLORIDE					0.46	U					0.48	U	

PROJ_NO: 07792	NSAMPLE	VP-102_51.5_20170226			VP-102_51.5_20170226-DL			VP-102_57.5_20170226			VP-102_57.5_20170226-DL		
SDG: 10380372	LAB_ID	10380372003			10380372003			10380372004			10380372004		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.94	U					0.99	U				
CHLOROFORM		3.9						3.8					
CHLOROMETHANE		0.71	J	P				0.77	U				
CIS-1,2-DICHLOROETHENE		7.1						8.5					
CIS-1,3-DICHLOROPROPENE		1.6	U					1.7	U				
CYCLOHEXANE		0.89	J	P				1.3	U				
DICHLORODIFLUOROMETHANE		3.1						1.8	U				
ETHYLBENZENE		1.5	U					1.6	U				
HEXACHLOROBUTADIENE		3.8	U					4	U				
HEXANE		146						1.3	U				
ISOPROPANOL		3.2	J	EP				4.6	U				
ISOPROPYLBENZENE		0.24	J	P				4.6	U				
M+P-XYLENES		3.1	U					3.2	U				
METHYL ACETATE		2.7	U					2.8	U				
METHYL CYCLOHEXANE		1.4	U					1.5	U				
METHYL TERT-BUTYL ETHER		6.4	U					6.7	U				
METHYLENE CHLORIDE		687	J	A				6.5	U				
O-XYLENE		1.5	U					1.6	U				
PENTAFLUOROETHYL CHLORIDE		5.6	UJ	C				5.9	UJ	C			
STYRENE		1.5	U					1.6	U				
TETRACHLOROETHENE		332						363					
TOLUENE		2.5						7					
TRANS-1,2-DICHLOROETHENE		1.4	U					1.5	U				
TRANS-1,3-DICHLOROPROPENE		1.6	U					1.7	U				
TRICHLOROETHENE					427						927		
TRICHLOROFLUOROMETHANE		3						3.4					
VINYL CHLORIDE		0.46	U					0.48	U				

PROJ_NO: 07792	NSAMPLE	VP-102_61.5_20170226			VP-102_61.5_20170226-DL			VP-102_73.5_20170226			VP-102_73.5_20170226DUP		
SDG: 10380372	LAB_ID	10380372005			10380372005			10380372006			10380372021		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF										VP-102_73.5_20170226		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.99	U					0.94	U		0.99	U	
CHLOROFORM		3.6						0.87	U		0.91	U	
CHLOROMETHANE		0.77	U					0.94			1		
CIS-1,2-DICHLOROETHENE		6.1						1.4	U		1.5	U	
CIS-1,3-DICHLOROPROPENE		1.7	U					1.6	U		1.7	U	
CYCLOHEXANE		1.3	U					1.2	U		1.3	U	
DICHLORODIFLUOROMETHANE		2.9						3			3		
ETHYLBENZENE		0.84	J	P				2			2.4		
HEXACHLOROBUTADIENE		4	U					3.8	U		4	UJ	C
HEXANE		2.6						1.1	J	P	2		
ISOPROPANOL		64.2	J	E				29.5	J	E	30.4		
ISOPROPYLBENZENE		0.32	J	P				0.26	J	P	4.6	U	
M+P-XYLENES		2.3	J	P				6.5			7.6		
METHYL ACETATE		2.8	U					2.7	U		2.8	U	
METHYL CYCLOHEXANE		1.5	U					1.4	U		1.5	U	
METHYL TERT-BUTYL ETHER		6.7	U					6.4	U		6.7	U	
METHYLENE CHLORIDE		5.9	J	AP				4.4	J	AP	9.5	J	A
O-XYLENE		1.2	J	P				2.1			2.3		
PENTAFLUOROETHYL CHLORIDE		5.9	UJ	C				5.6	UJ	C	5.9	UJ	C
STYRENE		0.72	J	P				1.5	U		1.6	U	
TETRACHLOROETHENE		368						0.56	J	P	1.2	J	P
TOLUENE		42.9						1.7			2.7		
TRANS-1,2-DICHLOROETHENE		1.5	U					1.4	U		1.5	U	
TRANS-1,3-DICHLOROPROPENE		1.7	U					1.6	U		1.7	U	
TRICHLOROETHENE					467			0.96	U		0.82	J	P
TRICHLOROFLUOROMETHANE		3.1						1.4	J	P	1.6	J	P
VINYL CHLORIDE		0.48	U					0.46	U		0.48	U	

PROJ_NO: 07792	NSAMPLE	VP-102_8.5_20170226			VP-103_10_20170226			VP-103_20_20170226			VP-103_30_20170226		
SDG: 10380372	LAB_ID	10380372001			10380372008			10380372009			10380372010		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.94	U		0.94	U		0.99	U		1.3	U	
CHLOROFORM		0.87	U		2.5			0.91	U		3.5		
CHLOROMETHANE		1			0.74	U		1			1	U	
CIS-1,2-DICHLOROETHENE		1.4	U		1.4	U		1.5	U		2	U	
CIS-1,3-DICHLOROPROPENE		1.6	U		1.6	U		1.7	U		2.3	U	
CYCLOHEXANE		1.2	J	P	1.2	U		1.3	U		2.1		
DICHLORODIFLUOROMETHANE		3.5			3			2.9			6.2		
ETHYLBENZENE		1.5	U		1.5	U		1.6	U		2	J	P
HEXACHLOROBUTADIENE		3.8	U		3.8	U		4	UJ	C	5.3	UJ	C
HEXANE		138			2.1			1.4			123		
ISOPROPANOL		10.1	J	E	5.4	J	E	29.4			20.5		
ISOPROPYLBENZENE		4.4	U		4.4	U		4.6	U		6.1	U	
M+P-XYLENES		3.1	U		3.1	U		3.2	U		5.9		
METHYL ACETATE		2.7	U		2.7	U		2.8	U		3.8	U	
METHYL CYCLOHEXANE		1.4	U		1.4	U		1.5	U		2	U	
METHYL TERT-BUTYL ETHER		6.4	U		6.4	U		6.7	U		9	U	
METHYLENE CHLORIDE		861	J	A	11.8	J	A	3	J	AP			
O-XYLENE		1.5	U		1.5	U		1.6	U		2.7		
PENTAFLUOROETHYL CHLORIDE		5.6	UJ	C	5.6	UJ	C	5.9	UJ	C	7.9	UJ	C
STYRENE		1.5	U		1.5	U		1.6	U		2.1	U	
TETRACHLOROETHENE		1.2	U		1.8			1.3	U		68.2		
TOLUENE		3.3			2.8			1	J	P	12.8		
TRANS-1,2-DICHLOROETHENE		1.4	U		1.4	U		1.5	U		2	U	
TRANS-1,3-DICHLOROPROPENE		1.6	U		1.6	U		1.7	U		2.3	U	
TRICHLOROETHENE		0.96	U		3.4			1	U		135		
TRICHLOROFLUOROMETHANE		2			1.7	J	P	1.5	J	P	4.8		
VINYL CHLORIDE		0.46	U		0.46	U		0.48	U		0.64	U	

PROJ_NO: 07792	NSAMPLE	VP-103_30_20170226-DL			VP-103_40_20170226			VP-103_40_20170226-DL			VP-103_5_20170226		
SDG: 10380372	LAB_ID	10380372010			10380372011			10380372011			10380372007		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					0.94	U					0.99	U	
CHLOROFORM					6.8						0.91	U	
CHLOROMETHANE					0.74	U					1.9		
CIS-1,2-DICHLOROETHENE					3.6						1.5	U	
CIS-1,3-DICHLOROPROPENE					1.6	U					1.7	U	
CYCLOHEXANE					1.2	U					1.3		
DICHLORODIFLUOROMETHANE					3.2						4.8		
ETHYLBENZENE					1.5	U					1	J	P
HEXACHLOROBUTADIENE					3.8	UJ	C				4	U	
HEXANE					1.2	J	P				20		
ISOPROPANOL					9.3						15.3	J	E
ISOPROPYLBENZENE					4.4	U					0.38	J	P
M+P-XYLENES					3.1	U					2.6	J	P
METHYL ACETATE					2.7	U					2.8	U	
METHYL CYCLOHEXANE					1.4	U					1.5	U	
METHYL TERT-BUTYL ETHER					6.4	U					6.7	U	
METHYLENE CHLORIDE		295	J	A	4.5	J	AP						
O-XYLENE					0.89	J	P				1.4	J	P
PENTAFLUOROETHYL CHLORIDE					5.6	UJ	C				5.9	UJ	C
STYRENE					1.5	U					0.97	J	P
TETRACHLOROETHENE					207						1.3	U	
TOLUENE					5.3						9.3		
TRANS-1,2-DICHLOROETHENE					1.4	U					1.5	U	
TRANS-1,3-DICHLOROPROPENE					1.6	U					1.7	U	
TRICHLOROETHENE								334			1		
TRICHLOROFLUOROMETHANE					4.3						3.7		
VINYL CHLORIDE					0.46	U					0.48	U	

PROJ_NO: 07792	NSAMPLE	VP-103_5_20170226-RE			VP-103_50_20170226			VP-103_50_20170226-DL			VP-103_61.5_20170226		
SDG: 10380372	LAB_ID	10380372007			10380372012			10380372012			10380372013		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					0.99	U					1.1	U	
CHLOROFORM					5.1						3.2		
CHLOROMETHANE					0.77	U					0.89	U	
CIS-1,2-DICHLOROETHENE					3.7						2.2		
CIS-1,3-DICHLOROPROPENE					1.7	U					2	U	
CYCLOHEXANE					1.3	U					1.8		
DICHLORODIFLUOROMETHANE					2.9						5.6		
ETHYLBENZENE					1.6	U					2.6		
HEXACHLOROBUTADIENE					4	UJ	C				3.3	J	CP
HEXANE					0.88	J	P				82.2		
ISOPROPANOL					2.3	J	P				5.3	U	
ISOPROPYLBENZENE					4.6	U					1.2	J	P
M+P-XYLENES					3.2	U					7.4		
METHYL ACETATE					2.8	U					3.3	U	
METHYL CYCLOHEXANE					1.5	U					1.7	U	
METHYL TERT-BUTYL ETHER					6.7	U					0.86	J	P
METHYLENE CHLORIDE		252	J	A	2	J	AP						
O-XYLENE					1.6	U					3.3		
PENTAFLUOROETHYL CHLORIDE					5.9	UJ	C				6.8	UJ	C
STYRENE					1.6	U					1.8	U	
TETRACHLOROETHENE					229						126		
TOLUENE					1.3	J	P				18.4		
TRANS-1,2-DICHLOROETHENE					1.5	U					1.7	U	
TRANS-1,3-DICHLOROPROPENE					1.7	U					1.1	J	P
TRICHLOROETHENE								352			194		
TRICHLOROFLUOROMETHANE					3.6						4.8		
VINYL CHLORIDE					0.48	U					0.55	U	

PROJ_NO: 07792	NSAMPLE	VP-103_61.5_20170226-DL			VP-103_74.5_20170226			VP-103_74.5_20170226-DL		
SDG: 10380372	LAB_ID	10380372013			10380372014			10380372014		
FRACTION: OV	SAMP_DATE	2/26/2017			2/26/2017			2/26/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS									
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					1.3	U				
CHLOROFORM					1.2	U				
CHLOROMETHANE					3.2					
CIS-1,2-DICHLOROETHENE					1.9	U				
CIS-1,3-DICHLOROPROPENE					2.2	U				
CYCLOHEXANE					3					
DICHLORODIFLUOROMETHANE					7.6					
ETHYLBENZENE					2.9					
HEXACHLOROBUTADIENE					5.1	UJ	C			
HEXANE					77.1					
ISOPROPANOL					12.9					
ISOPROPYLBENZENE					5.9	U				
M+P-XYLENES					10.2					
METHYL ACETATE					3.6	U				
METHYL CYCLOHEXANE					1.9	U				
METHYL TERT-BUTYL ETHER					8.6	U				
METHYLENE CHLORIDE		1640	J	A				268	J	A
O-XYLENE					4.1					
PENTAFLUOROETHYL CHLORIDE					7.5	UJ	C			
STYRENE					1.1	J	P			
TETRACHLOROETHENE					44.1					
TOLUENE					37					
TRANS-1,2-DICHLOROETHENE					1.9	U				
TRANS-1,3-DICHLOROPROPENE					2.2	U				
TRICHLOROETHENE					66.4					
TRICHLOROFLUOROMETHANE					4.7					
VINYL CHLORIDE					0.61	U				

Attachment 2

Results as Reported by the Laboratory

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_8.5_20170226 **Lab ID: 10380372001** Collected: 02/26/17 13:47 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**216**	ug/m3	10.6	1.5	1.75		03/10/17 16:54	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/10/17 16:54	107-05-1	
Benzene	**3.4**	ug/m3	0.57	0.21	1.75		03/10/17 16:54	71-43-2	
Bromodichloromethane	**0.34U**	ug/m3	2.4	0.34	1.75		03/10/17 16:54	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/10/17 16:54	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/10/17 16:54	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/10/17 16:54	106-99-0	
2-Butanone (MEK)	**2.3J**	ug/m3	5.2	0.40	1.75		03/10/17 16:54	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/10/17 16:54	75-15-0	
Carbon tetrachloride	**0.34U**	ug/m3	1.1	0.34	1.75		03/10/17 16:54	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/10/17 16:54	108-90-7	
Chlorodifluoromethane	**15.5**	ug/m3	1.3	0.48	1.75		03/10/17 16:54	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/10/17 16:54	75-00-3	
Chloroform	**0.33U**	ug/m3	0.87	0.33	1.75		03/10/17 16:54	67-66-3	
Chloromethane	**1.0**	ug/m3	0.74	0.19	1.75		03/10/17 16:54	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 16:54	76-15-3	
Cyclohexane	**1.2J**	ug/m3	1.2	0.55	1.75		03/10/17 16:54	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/10/17 16:54	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/10/17 16:54	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/10/17 16:54	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/10/17 16:54	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/10/17 16:54	541-73-1	
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/10/17 16:54	106-46-7	
Dichlorodifluoromethane	**3.5**	ug/m3	1.8	0.84	1.75		03/10/17 16:54	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/10/17 16:54	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/10/17 16:54	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 16:54	75-35-4	
cis-1,2-Dichloroethene	**0.43U**	ug/m3	1.4	0.43	1.75		03/10/17 16:54	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/10/17 16:54	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/10/17 16:54	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/10/17 16:54	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/10/17 16:54	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/10/17 16:54	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 16:54	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/10/17 16:54	123-91-1	
Ethylbenzene	**0.74U**	ug/m3	1.5	0.74	1.75		03/10/17 16:54	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/10/17 16:54	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/10/17 16:54	87-68-3	
n-Hexane	**138**	ug/m3	1.3	0.62	1.75		03/10/17 16:54	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/10/17 16:54	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/10/17 16:54	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/10/17 16:54	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 16:54	108-87-2	
Methylene Chloride	**861**	ug/m3	6.2	0.95	1.75		03/10/17 16:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/10/17 16:54	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/10/17 16:54	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_8.5_20170226 **Lab ID: 10380372001** Collected: 02/26/17 13:47 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**10.1**	ug/m3	4.4	0.42	1.75		03/10/17 16:54	67-63-0	L1
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/10/17 16:54	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/10/17 16:54	79-34-5	
Tetrachloroethene	**0.49U**	ug/m3	1.2	0.49	1.75		03/10/17 16:54	127-18-4	
Toluene	**3.3**	ug/m3	1.3	0.27	1.75		03/10/17 16:54	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/10/17 16:54	120-82-1	
1,1,1-Trichloroethane	**0.43U**	ug/m3	1.9	0.43	1.75		03/10/17 16:54	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/10/17 16:54	79-00-5	
Trichloroethene	**0.48U**	ug/m3	0.96	0.48	1.75		03/10/17 16:54	79-01-6	
Trichlorofluoromethane	**2.0**	ug/m3	2.0	0.23	1.75		03/10/17 16:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.53U**	ug/m3	2.8	0.53	1.75		03/10/17 16:54	76-13-1	
1,2,4-Trimethylbenzene	**0.22U**	ug/m3	1.7	0.22	1.75		03/10/17 16:54	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/10/17 16:54	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/10/17 16:54	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.1	1.4	1.75		03/10/17 16:54	179601-23-1	
o-Xylene	**0.61U**	ug/m3	1.5	0.61	1.75		03/10/17 16:54	95-47-6	

Sample: VP-102_19.5_20170226 **Lab ID: 10380372002** Collected: 02/26/17 13:44 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**4.2J**	ug/m3	11.0	1.5	1.83		03/10/17 17:22	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/10/17 17:22	107-05-1	
Benzene	**0.22U**	ug/m3	0.59	0.22	1.83		03/10/17 17:22	71-43-2	
Bromodichloromethane	**0.36U**	ug/m3	2.5	0.36	1.83		03/10/17 17:22	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/10/17 17:22	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/10/17 17:22	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/10/17 17:22	106-99-0	
2-Butanone (MEK)	**0.99J**	ug/m3	5.5	0.42	1.83		03/10/17 17:22	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/10/17 17:22	75-15-0	
Carbon tetrachloride	**0.54J**	ug/m3	1.2	0.35	1.83		03/10/17 17:22	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/10/17 17:22	108-90-7	
Chlorodifluoromethane	**32.2**	ug/m3	1.3	0.51	1.83		03/10/17 17:22	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/10/17 17:22	75-00-3	
Chloroform	**0.35U**	ug/m3	0.91	0.35	1.83		03/10/17 17:22	67-66-3	
Chloromethane	**0.20U**	ug/m3	0.77	0.20	1.83		03/10/17 17:22	74-87-3	
Chloropentafluoroethane	**10.4**	ug/m3	5.9	5.9	1.83		03/10/17 17:22	76-15-3	CH
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/10/17 17:22	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/10/17 17:22	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/10/17 17:22	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/10/17 17:22	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/10/17 17:22	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/10/17 17:22	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_19.5_20170226 **Lab ID: 10380372002** Collected: 02/26/17 13:44 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/10/17 17:22	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	0.88	1.83		03/10/17 17:22	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/10/17 17:22	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/10/17 17:22	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 17:22	75-35-4	
cis-1,2-Dichloroethene	**0.45U**	ug/m3	1.5	0.45	1.83		03/10/17 17:22	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/10/17 17:22	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/10/17 17:22	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/10/17 17:22	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/10/17 17:22	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/10/17 17:22	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/10/17 17:22	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/10/17 17:22	123-91-1	
Ethylbenzene	**0.78U**	ug/m3	1.6	0.78	1.83		03/10/17 17:22	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/10/17 17:22	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/10/17 17:22	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.65	1.83		03/10/17 17:22	110-54-3	
2-Hexanone	**0.75U**	ug/m3	7.6	0.75	1.83		03/10/17 17:22	591-78-6	
Isopropylbenzene (Cumene)	**0.26J**	ug/m3	4.6	0.25	1.83		03/10/17 17:22	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/10/17 17:22	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 17:22	108-87-2	
Methylene Chloride	**7.3**	ug/m3	6.5	0.99	1.83		03/10/17 17:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/10/17 17:22	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/10/17 17:22	1634-04-4	
2-Propanol	**11.6**	ug/m3	4.6	0.44	1.83		03/10/17 17:22	67-63-0	L1
Styrene	**0.35U**	ug/m3	1.6	0.35	1.83		03/10/17 17:22	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/10/17 17:22	79-34-5	
Tetrachloroethene	**3.1**	ug/m3	1.3	0.51	1.83		03/10/17 17:22	127-18-4	
Toluene	**8.4**	ug/m3	1.4	0.28	1.83		03/10/17 17:22	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/10/17 17:22	120-82-1	
1,1,1-Trichloroethane	**0.45U**	ug/m3	2.0	0.45	1.83		03/10/17 17:22	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/10/17 17:22	79-00-5	
Trichloroethene	**1.9**	ug/m3	1.0	0.51	1.83		03/10/17 17:22	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.1	0.24	1.83		03/10/17 17:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.99J**	ug/m3	2.9	0.55	1.83		03/10/17 17:22	76-13-1	
1,2,4-Trimethylbenzene	**0.83J**	ug/m3	1.8	0.23	1.83		03/10/17 17:22	95-63-6	
1,3,5-Trimethylbenzene	**0.33U**	ug/m3	1.8	0.33	1.83		03/10/17 17:22	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/10/17 17:22	75-01-4	
m&p-Xylene	**2.0J**	ug/m3	3.2	1.4	1.83		03/10/17 17:22	179601-23-1	
o-Xylene	**0.87J**	ug/m3	1.6	0.64	1.83		03/10/17 17:22	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_51.5_20170226 **Lab ID: 10380372003** Collected: 02/26/17 13:45 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**153**	ug/m3	10.6	1.5	1.75		03/10/17 18:21	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/10/17 18:21	107-05-1	
Benzene	**0.94**	ug/m3	0.57	0.21	1.75		03/10/17 18:21	71-43-2	
Bromodichloromethane	**0.89J**	ug/m3	2.4	0.34	1.75		03/10/17 18:21	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/10/17 18:21	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/10/17 18:21	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/10/17 18:21	106-99-0	
2-Butanone (MEK)	**2.0J**	ug/m3	5.2	0.40	1.75		03/10/17 18:21	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/10/17 18:21	75-15-0	
Carbon tetrachloride	**0.71J**	ug/m3	1.1	0.34	1.75		03/10/17 18:21	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/10/17 18:21	108-90-7	
Chlorodifluoromethane	**0.48U**	ug/m3	1.3	0.48	1.75		03/10/17 18:21	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/10/17 18:21	75-00-3	
Chloroform	**3.9**	ug/m3	0.87	0.33	1.75		03/10/17 18:21	67-66-3	
Chloromethane	**0.71J**	ug/m3	0.74	0.19	1.75		03/10/17 18:21	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 18:21	76-15-3	
Cyclohexane	**0.89J**	ug/m3	1.2	0.55	1.75		03/10/17 18:21	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/10/17 18:21	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/10/17 18:21	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/10/17 18:21	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/10/17 18:21	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/10/17 18:21	541-73-1	
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/10/17 18:21	106-46-7	
Dichlorodifluoromethane	**3.1**	ug/m3	1.8	0.84	1.75		03/10/17 18:21	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/10/17 18:21	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/10/17 18:21	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 18:21	75-35-4	
cis-1,2-Dichloroethene	**7.1**	ug/m3	1.4	0.43	1.75		03/10/17 18:21	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/10/17 18:21	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/10/17 18:21	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/10/17 18:21	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/10/17 18:21	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/10/17 18:21	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 18:21	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/10/17 18:21	123-91-1	
Ethylbenzene	**0.74U**	ug/m3	1.5	0.74	1.75		03/10/17 18:21	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/10/17 18:21	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/10/17 18:21	87-68-3	
n-Hexane	**146**	ug/m3	1.3	0.62	1.75		03/10/17 18:21	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/10/17 18:21	591-78-6	
Isopropylbenzene (Cumene)	**0.24J**	ug/m3	4.4	0.24	1.75		03/10/17 18:21	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/10/17 18:21	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 18:21	108-87-2	
Methylene Chloride	**687**	ug/m3	6.2	0.95	1.75		03/10/17 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/10/17 18:21	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/10/17 18:21	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_51.5_20170226 **Lab ID: 10380372003** Collected: 02/26/17 13:45 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**3.2J**	ug/m3	4.4	0.42	1.75		03/10/17 18:21	67-63-0	
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/10/17 18:21	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/10/17 18:21	79-34-5	
Tetrachloroethene	**332**	ug/m3	1.2	0.49	1.75		03/10/17 18:21	127-18-4	
Toluene	**2.5**	ug/m3	1.3	0.27	1.75		03/10/17 18:21	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/10/17 18:21	120-82-1	
1,1,1-Trichloroethane	**1.4J**	ug/m3	1.9	0.43	1.75		03/10/17 18:21	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/10/17 18:21	79-00-5	
Trichloroethene	**441**	ug/m3	0.96	0.48	1.75		03/10/17 18:21	79-01-6	
Trichloroethene	**427**	ug/m3	12.9	6.5	23.45		03/11/17 15:07	79-01-6	
Trichlorofluoromethane	**3.0**	ug/m3	2.0	0.23	1.75		03/10/17 18:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	**11.4**	ug/m3	2.8	0.53	1.75		03/10/17 18:21	76-13-1	
1,2,4-Trimethylbenzene	**0.76J**	ug/m3	1.7	0.22	1.75		03/10/17 18:21	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/10/17 18:21	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/10/17 18:21	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.1	1.4	1.75		03/10/17 18:21	179601-23-1	
o-Xylene	**0.61U**	ug/m3	1.5	0.61	1.75		03/10/17 18:21	95-47-6	

Sample: VP-102_57.5_20170226 **Lab ID: 10380372004** Collected: 02/26/17 13:50 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.1**	ug/m3	11.0	1.5	1.83		03/10/17 18:48	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/10/17 18:48	107-05-1	
Benzene	**0.48J**	ug/m3	0.59	0.22	1.83		03/10/17 18:48	71-43-2	
Bromodichloromethane	**0.89J**	ug/m3	2.5	0.36	1.83		03/10/17 18:48	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/10/17 18:48	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/10/17 18:48	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/10/17 18:48	106-99-0	
2-Butanone (MEK)	**1.2J**	ug/m3	5.5	0.42	1.83		03/10/17 18:48	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/10/17 18:48	75-15-0	
Carbon tetrachloride	**0.71J**	ug/m3	1.2	0.35	1.83		03/10/17 18:48	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/10/17 18:48	108-90-7	
Chlorodifluoromethane	**0.51U**	ug/m3	1.3	0.51	1.83		03/10/17 18:48	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/10/17 18:48	75-00-3	
Chloroform	**3.8**	ug/m3	0.91	0.35	1.83		03/10/17 18:48	67-66-3	
Chloromethane	**0.20U**	ug/m3	0.77	0.20	1.83		03/10/17 18:48	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/10/17 18:48	76-15-3	
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/10/17 18:48	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/10/17 18:48	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/10/17 18:48	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/10/17 18:48	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/10/17 18:48	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_57.5_20170226 **Lab ID: 10380372004** Collected: 02/26/17 13:50 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/10/17 18:48	541-73-1	
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/10/17 18:48	106-46-7	
Dichlorodifluoromethane	**0.88U**	ug/m3	1.8	0.88	1.83		03/10/17 18:48	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/10/17 18:48	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/10/17 18:48	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 18:48	75-35-4	
cis-1,2-Dichloroethene	**8.5**	ug/m3	1.5	0.45	1.83		03/10/17 18:48	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/10/17 18:48	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/10/17 18:48	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/10/17 18:48	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/10/17 18:48	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/10/17 18:48	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/10/17 18:48	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/10/17 18:48	123-91-1	
Ethylbenzene	**0.78U**	ug/m3	1.6	0.78	1.83		03/10/17 18:48	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/10/17 18:48	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/10/17 18:48	87-68-3	
n-Hexane	**0.65U**	ug/m3	1.3	0.65	1.83		03/10/17 18:48	110-54-3	
2-Hexanone	**0.75U**	ug/m3	7.6	0.75	1.83		03/10/17 18:48	591-78-6	
Isopropylbenzene (Cumene)	**0.25U**	ug/m3	4.6	0.25	1.83		03/10/17 18:48	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/10/17 18:48	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 18:48	108-87-2	
Methylene Chloride	**0.99U**	ug/m3	6.5	0.99	1.83		03/10/17 18:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/10/17 18:48	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/10/17 18:48	1634-04-4	
2-Propanol	**0.44U**	ug/m3	4.6	0.44	1.83		03/10/17 18:48	67-63-0	
Styrene	**0.35U**	ug/m3	1.6	0.35	1.83		03/10/17 18:48	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/10/17 18:48	79-34-5	
Tetrachloroethene	**363**	ug/m3	1.3	0.51	1.83		03/10/17 18:48	127-18-4	
Toluene	**7.0**	ug/m3	1.4	0.28	1.83		03/10/17 18:48	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/10/17 18:48	120-82-1	
1,1,1-Trichloroethane	**1.3J**	ug/m3	2.0	0.45	1.83		03/10/17 18:48	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/10/17 18:48	79-00-5	
Trichloroethene	**470**	ug/m3	1.0	0.51	1.83		03/10/17 18:48	79-01-6	
Trichloroethene	**927**	ug/m3	22.5	11.3	40.99		03/11/17 15:31	79-01-6	
Trichlorofluoromethane	**3.4**	ug/m3	2.1	0.24	1.83		03/10/17 18:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	**12.2**	ug/m3	2.9	0.55	1.83		03/10/17 18:48	76-13-1	
1,2,4-Trimethylbenzene	**0.70J**	ug/m3	1.8	0.23	1.83		03/10/17 18:48	95-63-6	
1,3,5-Trimethylbenzene	**0.33U**	ug/m3	1.8	0.33	1.83		03/10/17 18:48	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/10/17 18:48	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.2	1.4	1.83		03/10/17 18:48	179601-23-1	
o-Xylene	**0.64U**	ug/m3	1.6	0.64	1.83		03/10/17 18:48	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_61.5_20170226 **Lab ID: 10380372005** Collected: 02/26/17 13:44 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**79.4**	ug/m3	11.0	1.5	1.83		03/10/17 19:44	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/10/17 19:44	107-05-1	
Benzene	**0.58J**	ug/m3	0.59	0.22	1.83		03/10/17 19:44	71-43-2	
Bromodichloromethane	**0.36U**	ug/m3	2.5	0.36	1.83		03/10/17 19:44	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/10/17 19:44	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/10/17 19:44	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/10/17 19:44	106-99-0	
2-Butanone (MEK)	**11.4**	ug/m3	5.5	0.42	1.83		03/10/17 19:44	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/10/17 19:44	75-15-0	
Carbon tetrachloride	**0.69J**	ug/m3	1.2	0.35	1.83		03/10/17 19:44	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/10/17 19:44	108-90-7	
Chlorodifluoromethane	**0.51U**	ug/m3	1.3	0.51	1.83		03/10/17 19:44	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/10/17 19:44	75-00-3	
Chloroform	**3.6**	ug/m3	0.91	0.35	1.83		03/10/17 19:44	67-66-3	
Chloromethane	**0.20U**	ug/m3	0.77	0.20	1.83		03/10/17 19:44	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/10/17 19:44	76-15-3	
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/10/17 19:44	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/10/17 19:44	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/10/17 19:44	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/10/17 19:44	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/10/17 19:44	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/10/17 19:44	541-73-1	
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/10/17 19:44	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.88	1.83		03/10/17 19:44	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/10/17 19:44	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/10/17 19:44	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 19:44	75-35-4	
cis-1,2-Dichloroethene	**6.1**	ug/m3	1.5	0.45	1.83		03/10/17 19:44	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/10/17 19:44	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/10/17 19:44	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/10/17 19:44	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/10/17 19:44	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/10/17 19:44	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/10/17 19:44	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/10/17 19:44	123-91-1	
Ethylbenzene	**0.84J**	ug/m3	1.6	0.78	1.83		03/10/17 19:44	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/10/17 19:44	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/10/17 19:44	87-68-3	
n-Hexane	**2.6**	ug/m3	1.3	0.65	1.83		03/10/17 19:44	110-54-3	
2-Hexanone	**1.3J**	ug/m3	7.6	0.75	1.83		03/10/17 19:44	591-78-6	
Isopropylbenzene (Cumene)	**0.32J**	ug/m3	4.6	0.25	1.83		03/10/17 19:44	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/10/17 19:44	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 19:44	108-87-2	
Methylene Chloride	**5.9J**	ug/m3	6.5	0.99	1.83		03/10/17 19:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.2J**	ug/m3	7.6	0.40	1.83		03/10/17 19:44	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/10/17 19:44	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_61.5_20170226 **Lab ID: 10380372005** Collected: 02/26/17 13:44 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**64.2**	ug/m3	4.6	0.44	1.83		03/10/17 19:44	67-63-0	L1
Styrene	**0.72J**	ug/m3	1.6	0.35	1.83		03/10/17 19:44	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/10/17 19:44	79-34-5	
Tetrachloroethene	**368**	ug/m3	1.3	0.51	1.83		03/10/17 19:44	127-18-4	
Toluene	**42.9**	ug/m3	1.4	0.28	1.83		03/10/17 19:44	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/10/17 19:44	120-82-1	
1,1,1-Trichloroethane	**1.3J**	ug/m3	2.0	0.45	1.83		03/10/17 19:44	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/10/17 19:44	79-00-5	
Trichloroethene	**461**	ug/m3	1.0	0.51	1.83		03/10/17 19:44	79-01-6	
Trichloroethene	**467**	ug/m3	10.1	5.1	18.3		03/11/17 15:54	79-01-6	
Trichlorofluoromethane	**3.1**	ug/m3	2.1	0.24	1.83		03/10/17 19:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	**12.2**	ug/m3	2.9	0.55	1.83		03/10/17 19:44	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.8	0.23	1.83		03/10/17 19:44	95-63-6	
1,3,5-Trimethylbenzene	**0.33U**	ug/m3	1.8	0.33	1.83		03/10/17 19:44	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/10/17 19:44	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.2	1.4	1.83		03/10/17 19:44	179601-23-1	
o-Xylene	**1.2J**	ug/m3	1.6	0.64	1.83		03/10/17 19:44	95-47-6	

Sample: VP-102_73.5_20170226 **Lab ID: 10380372006** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**22.0**	ug/m3	10.6	1.5	1.75		03/10/17 20:12	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/10/17 20:12	107-05-1	
Benzene	**0.50J**	ug/m3	0.57	0.21	1.75		03/10/17 20:12	71-43-2	
Bromodichloromethane	**0.34U**	ug/m3	2.4	0.34	1.75		03/10/17 20:12	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/10/17 20:12	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/10/17 20:12	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/10/17 20:12	106-99-0	
2-Butanone (MEK)	**2.5J**	ug/m3	5.2	0.40	1.75		03/10/17 20:12	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/10/17 20:12	75-15-0	
Carbon tetrachloride	**0.34U**	ug/m3	1.1	0.34	1.75		03/10/17 20:12	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/10/17 20:12	108-90-7	
Chlorodifluoromethane	**21.9**	ug/m3	1.3	0.48	1.75		03/10/17 20:12	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/10/17 20:12	75-00-3	
Chloroform	**0.33U**	ug/m3	0.87	0.33	1.75		03/10/17 20:12	67-66-3	
Chloromethane	**0.94**	ug/m3	0.74	0.19	1.75		03/10/17 20:12	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 20:12	76-15-3	
Cyclohexane	**0.55U**	ug/m3	1.2	0.55	1.75		03/10/17 20:12	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/10/17 20:12	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/10/17 20:12	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/10/17 20:12	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/10/17 20:12	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_73.5_20170226 **Lab ID: 10380372006** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/10/17 20:12	541-73-1	
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/10/17 20:12	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	0.84	1.75		03/10/17 20:12	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/10/17 20:12	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/10/17 20:12	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 20:12	75-35-4	
cis-1,2-Dichloroethene	**0.43U**	ug/m3	1.4	0.43	1.75		03/10/17 20:12	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/10/17 20:12	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/10/17 20:12	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/10/17 20:12	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/10/17 20:12	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/10/17 20:12	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 20:12	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/10/17 20:12	123-91-1	
Ethylbenzene	**2.0**	ug/m3	1.5	0.74	1.75		03/10/17 20:12	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/10/17 20:12	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/10/17 20:12	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.62	1.75		03/10/17 20:12	110-54-3	
2-Hexanone	**0.93J**	ug/m3	7.3	0.72	1.75		03/10/17 20:12	591-78-6	
Isopropylbenzene (Cumene)	**0.26J**	ug/m3	4.4	0.24	1.75		03/10/17 20:12	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/10/17 20:12	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 20:12	108-87-2	
Methylene Chloride	**4.4J**	ug/m3	6.2	0.95	1.75		03/10/17 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/10/17 20:12	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/10/17 20:12	1634-04-4	
2-Propanol	**29.5**	ug/m3	4.4	0.42	1.75		03/10/17 20:12	67-63-0	L1
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/10/17 20:12	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/10/17 20:12	79-34-5	
Tetrachloroethene	**0.56J**	ug/m3	1.2	0.49	1.75		03/10/17 20:12	127-18-4	
Toluene	**1.7**	ug/m3	1.3	0.27	1.75		03/10/17 20:12	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/10/17 20:12	120-82-1	
1,1,1-Trichloroethane	**0.43U**	ug/m3	1.9	0.43	1.75		03/10/17 20:12	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/10/17 20:12	79-00-5	
Trichloroethene	**0.48U**	ug/m3	0.96	0.48	1.75		03/10/17 20:12	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.0	0.23	1.75		03/10/17 20:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.53U**	ug/m3	2.8	0.53	1.75		03/10/17 20:12	76-13-1	
1,2,4-Trimethylbenzene	**0.95J**	ug/m3	1.7	0.22	1.75		03/10/17 20:12	95-63-6	
1,3,5-Trimethylbenzene	**0.41J**	ug/m3	1.7	0.32	1.75		03/10/17 20:12	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/10/17 20:12	75-01-4	
m&p-Xylene	**6.5**	ug/m3	3.1	1.4	1.75		03/10/17 20:12	179601-23-1	
o-Xylene	**2.1**	ug/m3	1.5	0.61	1.75		03/10/17 20:12	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_5_20170226 **Lab ID: 10380372007** Collected: 02/26/17 12:09 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**182**	ug/m3	11.0	1.5	1.83		03/10/17 20:42	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/10/17 20:42	107-05-1	
Benzene	**1.9**	ug/m3	0.59	0.22	1.83		03/10/17 20:42	71-43-2	
Bromodichloromethane	**0.36U**	ug/m3	2.5	0.36	1.83		03/10/17 20:42	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/10/17 20:42	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/10/17 20:42	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/10/17 20:42	106-99-0	
2-Butanone (MEK)	**2.7J**	ug/m3	5.5	0.42	1.83		03/10/17 20:42	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/10/17 20:42	75-15-0	
Carbon tetrachloride	**0.35U**	ug/m3	1.2	0.35	1.83		03/10/17 20:42	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/10/17 20:42	108-90-7	
Chlorodifluoromethane	**12.2**	ug/m3	1.3	0.51	1.83		03/10/17 20:42	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/10/17 20:42	75-00-3	
Chloroform	**0.35U**	ug/m3	0.91	0.35	1.83		03/10/17 20:42	67-66-3	
Chloromethane	**1.9**	ug/m3	0.77	0.20	1.83		03/10/17 20:42	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/10/17 20:42	76-15-3	
Cyclohexane	**1.3**	ug/m3	1.3	0.58	1.83		03/10/17 20:42	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/10/17 20:42	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/10/17 20:42	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/10/17 20:42	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/10/17 20:42	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/10/17 20:42	541-73-1	
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/10/17 20:42	106-46-7	
Dichlorodifluoromethane	**4.8**	ug/m3	1.8	0.88	1.83		03/10/17 20:42	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/10/17 20:42	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/10/17 20:42	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 20:42	75-35-4	
cis-1,2-Dichloroethene	**0.45U**	ug/m3	1.5	0.45	1.83		03/10/17 20:42	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/10/17 20:42	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/10/17 20:42	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/10/17 20:42	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/10/17 20:42	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/10/17 20:42	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/10/17 20:42	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/10/17 20:42	123-91-1	
Ethylbenzene	**1.0J**	ug/m3	1.6	0.78	1.83		03/10/17 20:42	100-41-4	
4-Ethyltoluene	**0.61J**	ug/m3	1.8	0.34	1.83		03/10/17 20:42	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/10/17 20:42	87-68-3	
n-Hexane	**20.0**	ug/m3	1.3	0.65	1.83		03/11/17 14:44	110-54-3	
2-Hexanone	**0.75U**	ug/m3	7.6	0.75	1.83		03/10/17 20:42	591-78-6	
Isopropylbenzene (Cumene)	**0.38J**	ug/m3	4.6	0.25	1.83		03/10/17 20:42	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/10/17 20:42	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/10/17 20:42	108-87-2	
Methylene Chloride	**252**	ug/m3	6.5	0.99	1.83		03/11/17 14:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/10/17 20:42	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/10/17 20:42	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_5_20170226 **Lab ID: 10380372007** Collected: 02/26/17 12:09 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**15.3**	ug/m3	4.6	0.44	1.83		03/10/17 20:42	67-63-0	L1
Styrene	**0.97J**	ug/m3	1.6	0.35	1.83		03/10/17 20:42	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/10/17 20:42	79-34-5	
Tetrachloroethene	**0.51U**	ug/m3	1.3	0.51	1.83		03/10/17 20:42	127-18-4	
Toluene	**9.3**	ug/m3	1.4	0.28	1.83		03/10/17 20:42	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/10/17 20:42	120-82-1	
1,1,1-Trichloroethane	**0.45U**	ug/m3	2.0	0.45	1.83		03/10/17 20:42	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/10/17 20:42	79-00-5	
Trichloroethene	**1.0**	ug/m3	1.0	0.51	1.83		03/10/17 20:42	79-01-6	
Trichlorofluoromethane	**3.7**	ug/m3	2.1	0.24	1.83		03/10/17 20:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.55U**	ug/m3	2.9	0.55	1.83		03/10/17 20:42	76-13-1	
1,2,4-Trimethylbenzene	**1.7J**	ug/m3	1.8	0.23	1.83		03/10/17 20:42	95-63-6	
1,3,5-Trimethylbenzene	**0.69J**	ug/m3	1.8	0.33	1.83		03/10/17 20:42	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/10/17 20:42	75-01-4	
m&p-Xylene	**2.6J**	ug/m3	3.2	1.4	1.83		03/10/17 20:42	179601-23-1	
o-Xylene	**1.4J**	ug/m3	1.6	0.64	1.83		03/10/17 20:42	95-47-6	

Sample: VP-103_10_20170226 **Lab ID: 10380372008** Collected: 02/26/17 12:10 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.9**	ug/m3	10.6	1.5	1.75		03/10/17 21:10	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/10/17 21:10	107-05-1	
Benzene	**0.29J**	ug/m3	0.57	0.21	1.75		03/10/17 21:10	71-43-2	
Bromodichloromethane	**0.34U**	ug/m3	2.4	0.34	1.75		03/10/17 21:10	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/10/17 21:10	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/10/17 21:10	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/10/17 21:10	106-99-0	
2-Butanone (MEK)	**4.2J**	ug/m3	5.2	0.40	1.75		03/10/17 21:10	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/10/17 21:10	75-15-0	
Carbon tetrachloride	**0.57J**	ug/m3	1.1	0.34	1.75		03/10/17 21:10	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/10/17 21:10	108-90-7	
Chlorodifluoromethane	**3.1**	ug/m3	1.3	0.48	1.75		03/10/17 21:10	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/10/17 21:10	75-00-3	
Chloroform	**2.5**	ug/m3	0.87	0.33	1.75		03/10/17 21:10	67-66-3	
Chloromethane	**0.19U**	ug/m3	0.74	0.19	1.75		03/10/17 21:10	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 21:10	76-15-3	
Cyclohexane	**0.55U**	ug/m3	1.2	0.55	1.75		03/10/17 21:10	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/10/17 21:10	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/10/17 21:10	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/10/17 21:10	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/10/17 21:10	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/10/17 21:10	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_10_20170226 **Lab ID: 10380372008** Collected: 02/26/17 12:10 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/10/17 21:10	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	0.84	1.75		03/10/17 21:10	75-71-8	
1,1-Dichloroethane	**6.4**	ug/m3	1.4	0.27	1.75		03/10/17 21:10	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/10/17 21:10	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 21:10	75-35-4	
cis-1,2-Dichloroethene	**0.43U**	ug/m3	1.4	0.43	1.75		03/10/17 21:10	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/10/17 21:10	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/10/17 21:10	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/10/17 21:10	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/10/17 21:10	10061-02-6	
Dichlorotetrafluoroethane	**1.4J**	ug/m3	2.5	0.54	1.75		03/10/17 21:10	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/10/17 21:10	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/10/17 21:10	123-91-1	
Ethylbenzene	**0.74U**	ug/m3	1.5	0.74	1.75		03/10/17 21:10	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/10/17 21:10	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/10/17 21:10	87-68-3	
n-Hexane	**2.1**	ug/m3	1.3	0.62	1.75		03/10/17 21:10	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/10/17 21:10	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/10/17 21:10	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/10/17 21:10	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/10/17 21:10	108-87-2	
Methylene Chloride	**11.8**	ug/m3	6.2	0.95	1.75		03/10/17 21:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.88J**	ug/m3	7.3	0.38	1.75		03/10/17 21:10	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/10/17 21:10	1634-04-4	
2-Propanol	**5.4**	ug/m3	4.4	0.42	1.75		03/10/17 21:10	67-63-0	L1
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/10/17 21:10	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/10/17 21:10	79-34-5	
Tetrachloroethene	**1.8**	ug/m3	1.2	0.49	1.75		03/10/17 21:10	127-18-4	
Toluene	**2.8**	ug/m3	1.3	0.27	1.75		03/10/17 21:10	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/10/17 21:10	120-82-1	
1,1,1-Trichloroethane	**0.43U**	ug/m3	1.9	0.43	1.75		03/10/17 21:10	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/10/17 21:10	79-00-5	
Trichloroethene	**3.4**	ug/m3	0.96	0.48	1.75		03/10/17 21:10	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.0	0.23	1.75		03/10/17 21:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.72J**	ug/m3	2.8	0.53	1.75		03/10/17 21:10	76-13-1	
1,2,4-Trimethylbenzene	**0.79J**	ug/m3	1.7	0.22	1.75		03/10/17 21:10	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/10/17 21:10	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/10/17 21:10	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.1	1.4	1.75		03/10/17 21:10	179601-23-1	
o-Xylene	**0.61U**	ug/m3	1.5	0.61	1.75		03/10/17 21:10	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_20_20170226 **Lab ID: 10380372009** Collected: 02/26/17 11:54 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.3**	ug/m3	11.0	1.5	1.83		03/11/17 17:23	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/11/17 17:23	107-05-1	
Benzene	**0.49J**	ug/m3	0.59	0.22	1.83		03/11/17 17:23	71-43-2	
Bromodichloromethane	**0.36U**	ug/m3	2.5	0.36	1.83		03/11/17 17:23	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/11/17 17:23	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/11/17 17:23	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/11/17 17:23	106-99-0	
2-Butanone (MEK)	**1.1J**	ug/m3	5.5	0.42	1.83		03/11/17 17:23	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/11/17 17:23	75-15-0	
Carbon tetrachloride	**0.35U**	ug/m3	1.2	0.35	1.83		03/11/17 17:23	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/11/17 17:23	108-90-7	
Chlorodifluoromethane	**1.7**	ug/m3	1.3	0.51	1.83		03/11/17 17:23	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/11/17 17:23	75-00-3	
Chloroform	**0.35U**	ug/m3	0.91	0.35	1.83		03/11/17 17:23	67-66-3	
Chloromethane	**1.0**	ug/m3	0.77	0.20	1.83		03/11/17 17:23	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/11/17 17:23	76-15-3	CL
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/11/17 17:23	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/11/17 17:23	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/11/17 17:23	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/11/17 17:23	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/11/17 17:23	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/11/17 17:23	541-73-1	
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/11/17 17:23	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.88	1.83		03/11/17 17:23	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/11/17 17:23	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/11/17 17:23	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/11/17 17:23	75-35-4	
cis-1,2-Dichloroethene	**0.45U**	ug/m3	1.5	0.45	1.83		03/11/17 17:23	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/11/17 17:23	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/11/17 17:23	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/11/17 17:23	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/11/17 17:23	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/11/17 17:23	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/11/17 17:23	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/11/17 17:23	123-91-1	
Ethylbenzene	**0.78U**	ug/m3	1.6	0.78	1.83		03/11/17 17:23	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/11/17 17:23	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/11/17 17:23	87-68-3	
n-Hexane	**1.4**	ug/m3	1.3	0.65	1.83		03/11/17 17:23	110-54-3	
2-Hexanone	**0.75U**	ug/m3	7.6	0.75	1.83		03/11/17 17:23	591-78-6	
Isopropylbenzene (Cumene)	**0.25U**	ug/m3	4.6	0.25	1.83		03/11/17 17:23	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/11/17 17:23	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/11/17 17:23	108-87-2	
Methylene Chloride	**3.0J**	ug/m3	6.5	0.99	1.83		03/11/17 17:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/11/17 17:23	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/11/17 17:23	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_20_20170226 **Lab ID: 10380372009** Collected: 02/26/17 11:54 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**29.4**	ug/m3	4.6	0.44	1.83		03/11/17 17:23	67-63-0	
Styrene	**0.35U**	ug/m3	1.6	0.35	1.83		03/11/17 17:23	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/11/17 17:23	79-34-5	
Tetrachloroethene	**0.51U**	ug/m3	1.3	0.51	1.83		03/11/17 17:23	127-18-4	
Toluene	**1.0J**	ug/m3	1.4	0.28	1.83		03/11/17 17:23	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/11/17 17:23	120-82-1	
1,1,1-Trichloroethane	**0.45U**	ug/m3	2.0	0.45	1.83		03/11/17 17:23	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/11/17 17:23	79-00-5	
Trichloroethene	**0.51U**	ug/m3	1.0	0.51	1.83		03/11/17 17:23	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.1	0.24	1.83		03/11/17 17:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.55U**	ug/m3	2.9	0.55	1.83		03/11/17 17:23	76-13-1	
1,2,4-Trimethylbenzene	**2.1**	ug/m3	1.8	0.23	1.83		03/11/17 17:23	95-63-6	
1,3,5-Trimethylbenzene	**0.93J**	ug/m3	1.8	0.33	1.83		03/11/17 17:23	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/11/17 17:23	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.2	1.4	1.83		03/11/17 17:23	179601-23-1	
o-Xylene	**0.64U**	ug/m3	1.6	0.64	1.83		03/11/17 17:23	95-47-6	

Sample: VP-103_30_20170226 **Lab ID: 10380372010** Collected: 02/26/17 12:20 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**168**	ug/m3	14.8	2.0	2.45		03/11/17 16:24	67-64-1	
Allyl chloride	**0.56U**	ug/m3	3.9	0.56	2.45		03/11/17 16:24	107-05-1	
Benzene	**3.4**	ug/m3	0.80	0.30	2.45		03/11/17 16:24	71-43-2	
Bromodichloromethane	**0.48U**	ug/m3	3.3	0.48	2.45		03/11/17 16:24	75-27-4	
Bromoform	**2.2U**	ug/m3	12.9	2.2	2.45		03/11/17 16:24	75-25-2	
Bromomethane	**0.76U**	ug/m3	1.9	0.76	2.45		03/11/17 16:24	74-83-9	
1,3-Butadiene	**0.43U**	ug/m3	1.1	0.43	2.45		03/11/17 16:24	106-99-0	
2-Butanone (MEK)	**12.1**	ug/m3	7.4	0.56	2.45		03/11/17 16:24	78-93-3	
Carbon disulfide	**1.4J**	ug/m3	1.5	0.25	2.45		03/11/17 16:24	75-15-0	
Carbon tetrachloride	**6.6**	ug/m3	1.6	0.47	2.45		03/11/17 16:24	56-23-5	CH
Chlorobenzene	**0.33U**	ug/m3	2.3	0.33	2.45		03/11/17 16:24	108-90-7	
Chlorodifluoromethane	**20.1**	ug/m3	1.8	0.68	2.45		03/11/17 16:24	75-45-6	
Chloroethane	**0.48U**	ug/m3	1.3	0.48	2.45		03/11/17 16:24	75-00-3	
Chloroform	**3.5**	ug/m3	1.2	0.47	2.45		03/11/17 16:24	67-66-3	
Chloromethane	**0.26U**	ug/m3	1.0	0.26	2.45		03/11/17 16:24	74-87-3	
Chloropentafluoroethane	**7.9U**	ug/m3	7.9	7.9	2.45		03/11/17 16:24	76-15-3	CL
Cyclohexane	**2.1**	ug/m3	1.7	0.77	2.45		03/11/17 16:24	110-82-7	
1,2-Dibromo-3-chloropropane	**12.0U**	ug/m3	12.0	12.0	2.45		03/11/17 16:24	96-12-8	
Dibromochloromethane	**2.1U**	ug/m3	4.2	2.1	2.45		03/11/17 16:24	124-48-1	
1,2-Dibromoethane (EDB)	**1.9U**	ug/m3	3.8	1.9	2.45		03/11/17 16:24	106-93-4	
1,2-Dichlorobenzene	**1.3U**	ug/m3	3.0	1.3	2.45		03/11/17 16:24	95-50-1	
1,3-Dichlorobenzene	**1.3U**	ug/m3	3.0	1.3	2.45		03/11/17 16:24	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_30_20170226 **Lab ID: 10380372010** Collected: 02/26/17 12:20 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**1.2U**	ug/m3	3.0	1.2	2.45		03/11/17 16:24	106-46-7	
Dichlorodifluoromethane	**6.2**	ug/m3	2.5	1.2	2.45		03/11/17 16:24	75-71-8	
1,1-Dichloroethane	**0.38U**	ug/m3	2.0	0.38	2.45		03/11/17 16:24	75-34-3	
1,2-Dichloroethane	**0.50U**	ug/m3	1.0	0.50	2.45		03/11/17 16:24	107-06-2	
1,1-Dichloroethene	**0.58U**	ug/m3	2.0	0.58	2.45		03/11/17 16:24	75-35-4	
cis-1,2-Dichloroethene	**0.60U**	ug/m3	2.0	0.60	2.45		03/11/17 16:24	156-59-2	
trans-1,2-Dichloroethene	**0.94U**	ug/m3	2.0	0.94	2.45		03/11/17 16:24	156-60-5	
1,2-Dichloropropane	**0.66U**	ug/m3	2.3	0.66	2.45		03/11/17 16:24	78-87-5	
cis-1,3-Dichloropropene	**0.90U**	ug/m3	2.3	0.90	2.45		03/11/17 16:24	10061-01-5	
trans-1,3-Dichloropropene	**0.64U**	ug/m3	2.3	0.64	2.45		03/11/17 16:24	10061-02-6	
Dichlorotetrafluoroethane	**0.76U**	ug/m3	3.5	0.76	2.45		03/11/17 16:24	76-14-2	
Freon 123	**7.8U**	ug/m3	7.8	7.8	2.45		03/11/17 16:24	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.86U**	ug/m3	9.0	0.86	2.45		03/11/17 16:24	123-91-1	
Ethylbenzene	**2.0J**	ug/m3	2.2	1.0	2.45		03/11/17 16:24	100-41-4	
4-Ethyltoluene	**2.0J**	ug/m3	2.4	0.46	2.45		03/11/17 16:24	622-96-8	
Hexachloro-1,3-butadiene	**1.6U**	ug/m3	5.3	1.6	2.45		03/11/17 16:24	87-68-3	
n-Hexane	**123**	ug/m3	1.8	0.87	2.45		03/11/17 16:24	110-54-3	
2-Hexanone	**3.4J**	ug/m3	10.2	1.0	2.45		03/11/17 16:24	591-78-6	
Isopropylbenzene (Cumene)	**0.34U**	ug/m3	6.1	0.34	2.45		03/11/17 16:24	98-82-8	
Methyl acetate	**3.8U**	ug/m3	3.8	3.8	2.45		03/11/17 16:24	79-20-9	
Methylcyclohexane	**0.59U**	ug/m3	2.0	0.59	2.45		03/11/17 16:24	108-87-2	
Methylene Chloride	**295**	ug/m3	232	35.6	65.72		03/12/17 15:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.8J**	ug/m3	10.2	0.53	2.45		03/11/17 16:24	108-10-1	
Methyl-tert-butyl ether	**0.74U**	ug/m3	9.0	0.74	2.45		03/11/17 16:24	1634-04-4	
2-Propanol	**20.5**	ug/m3	6.1	0.59	2.45		03/11/17 16:24	67-63-0	
Styrene	**0.47U**	ug/m3	2.1	0.47	2.45		03/11/17 16:24	100-42-5	
1,1,2,2-Tetrachloroethane	**0.81U**	ug/m3	1.7	0.81	2.45		03/11/17 16:24	79-34-5	
Tetrachloroethene	**68.2**	ug/m3	1.7	0.68	2.45		03/11/17 16:24	127-18-4	
Toluene	**12.8**	ug/m3	1.9	0.38	2.45		03/11/17 16:24	108-88-3	
1,2,4-Trichlorobenzene	**2.2U**	ug/m3	9.2	2.2	2.45		03/11/17 16:24	120-82-1	
1,1,1-Trichloroethane	**0.61U**	ug/m3	2.7	0.61	2.45		03/11/17 16:24	71-55-6	
1,1,2-Trichloroethane	**0.60U**	ug/m3	1.3	0.60	2.45		03/11/17 16:24	79-00-5	
Trichloroethene	**135**	ug/m3	1.3	0.68	2.45		03/11/17 16:24	79-01-6	
Trichlorofluoromethane	**4.8**	ug/m3	2.8	0.32	2.45		03/11/17 16:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	**8.1**	ug/m3	3.9	0.74	2.45		03/11/17 16:24	76-13-1	
1,2,4-Trimethylbenzene	**4.3**	ug/m3	2.4	0.31	2.45		03/11/17 16:24	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/m3	2.4	0.45	2.45		03/11/17 16:24	108-67-8	
Vinyl chloride	**0.48U**	ug/m3	0.64	0.48	2.45		03/11/17 16:24	75-01-4	
m&p-Xylene	**5.9**	ug/m3	4.3	1.9	2.45		03/11/17 16:24	179601-23-1	
o-Xylene	**2.7**	ug/m3	2.2	0.86	2.45		03/11/17 16:24	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_40_20170226 **Lab ID: 10380372011** Collected: 02/26/17 12:09 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**12.1**	ug/m3	10.6	1.5	1.75		03/11/17 17:51	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/11/17 17:51	107-05-1	
Benzene	**0.21U**	ug/m3	0.57	0.21	1.75		03/11/17 17:51	71-43-2	
Bromodichloromethane	**0.96J**	ug/m3	2.4	0.34	1.75		03/11/17 17:51	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/11/17 17:51	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/11/17 17:51	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/11/17 17:51	106-99-0	
2-Butanone (MEK)	**2.2J**	ug/m3	5.2	0.40	1.75		03/11/17 17:51	78-93-3	
Carbon disulfide	**0.79J**	ug/m3	1.1	0.18	1.75		03/11/17 17:51	75-15-0	
Carbon tetrachloride	**9.5**	ug/m3	1.1	0.34	1.75		03/11/17 17:51	56-23-5	CH
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/11/17 17:51	108-90-7	
Chlorodifluoromethane	**20.8**	ug/m3	1.3	0.48	1.75		03/11/17 17:51	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/11/17 17:51	75-00-3	
Chloroform	**6.8**	ug/m3	0.87	0.33	1.75		03/11/17 17:51	67-66-3	
Chloromethane	**0.19U**	ug/m3	0.74	0.19	1.75		03/11/17 17:51	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 17:51	76-15-3	CL
Cyclohexane	**0.55U**	ug/m3	1.2	0.55	1.75		03/11/17 17:51	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/11/17 17:51	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/11/17 17:51	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/11/17 17:51	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/11/17 17:51	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/11/17 17:51	541-73-1	
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/11/17 17:51	106-46-7	
Dichlorodifluoromethane	**3.2**	ug/m3	1.8	0.84	1.75		03/11/17 17:51	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/11/17 17:51	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/11/17 17:51	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/11/17 17:51	75-35-4	
cis-1,2-Dichloroethene	**3.6**	ug/m3	1.4	0.43	1.75		03/11/17 17:51	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/11/17 17:51	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/11/17 17:51	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/11/17 17:51	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/11/17 17:51	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/11/17 17:51	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 17:51	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/11/17 17:51	123-91-1	
Ethylbenzene	**0.74U**	ug/m3	1.5	0.74	1.75		03/11/17 17:51	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/11/17 17:51	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/11/17 17:51	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.3	0.62	1.75		03/11/17 17:51	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/11/17 17:51	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/11/17 17:51	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/11/17 17:51	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/11/17 17:51	108-87-2	
Methylene Chloride	**4.5J**	ug/m3	6.2	0.95	1.75		03/11/17 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/11/17 17:51	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/11/17 17:51	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_40_20170226 **Lab ID: 10380372011** Collected: 02/26/17 12:09 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**9.3**	ug/m3	4.4	0.42	1.75		03/11/17 17:51	67-63-0	
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/11/17 17:51	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/11/17 17:51	79-34-5	
Tetrachloroethene	**207**	ug/m3	1.2	0.49	1.75		03/11/17 17:51	127-18-4	
Toluene	**5.3**	ug/m3	1.3	0.27	1.75		03/11/17 17:51	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/11/17 17:51	120-82-1	
1,1,1-Trichloroethane	**1.1J**	ug/m3	1.9	0.43	1.75		03/11/17 17:51	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/11/17 17:51	79-00-5	
Trichloroethene	**334**	ug/m3	4.8	2.4	8.75		03/12/17 14:58	79-01-6	
Trichlorofluoromethane	**4.3**	ug/m3	2.0	0.23	1.75		03/11/17 17:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	**10.8**	ug/m3	2.8	0.53	1.75		03/11/17 17:51	76-13-1	
1,2,4-Trimethylbenzene	**1.7J**	ug/m3	1.7	0.22	1.75		03/11/17 17:51	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/11/17 17:51	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/11/17 17:51	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.1	1.4	1.75		03/11/17 17:51	179601-23-1	
o-Xylene	**0.89J**	ug/m3	1.5	0.61	1.75		03/11/17 17:51	95-47-6	

Sample: VP-103_50_20170226 **Lab ID: 10380372012** Collected: 02/26/17 11:55 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**21.8**	ug/m3	11.0	1.5	1.83		03/11/17 18:19	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/11/17 18:19	107-05-1	
Benzene	**0.22U**	ug/m3	0.59	0.22	1.83		03/11/17 18:19	71-43-2	
Bromodichloromethane	**1.0J**	ug/m3	2.5	0.36	1.83		03/11/17 18:19	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/11/17 18:19	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/11/17 18:19	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/11/17 18:19	106-99-0	
2-Butanone (MEK)	**2.7J**	ug/m3	5.5	0.42	1.83		03/11/17 18:19	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/11/17 18:19	75-15-0	
Carbon tetrachloride	**3.7**	ug/m3	1.2	0.35	1.83		03/11/17 18:19	56-23-5	CH
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/11/17 18:19	108-90-7	
Chlorodifluoromethane	**0.51U**	ug/m3	1.3	0.51	1.83		03/11/17 18:19	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/11/17 18:19	75-00-3	
Chloroform	**5.1**	ug/m3	0.91	0.35	1.83		03/11/17 18:19	67-66-3	
Chloromethane	**0.20U**	ug/m3	0.77	0.20	1.83		03/11/17 18:19	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/11/17 18:19	76-15-3	CL
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/11/17 18:19	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/11/17 18:19	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/11/17 18:19	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/11/17 18:19	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/11/17 18:19	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/11/17 18:19	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_50_20170226 **Lab ID: 10380372012** Collected: 02/26/17 11:55 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/11/17 18:19	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.88	1.83		03/11/17 18:19	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/11/17 18:19	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/11/17 18:19	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/11/17 18:19	75-35-4	
cis-1,2-Dichloroethene	**3.7**	ug/m3	1.5	0.45	1.83		03/11/17 18:19	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/11/17 18:19	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/11/17 18:19	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/11/17 18:19	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/11/17 18:19	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/11/17 18:19	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/11/17 18:19	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/11/17 18:19	123-91-1	
Ethylbenzene	**0.78U**	ug/m3	1.6	0.78	1.83		03/11/17 18:19	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/11/17 18:19	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/11/17 18:19	87-68-3	
n-Hexane	**0.88J**	ug/m3	1.3	0.65	1.83		03/11/17 18:19	110-54-3	
2-Hexanone	**1.3J**	ug/m3	7.6	0.75	1.83		03/11/17 18:19	591-78-6	
Isopropylbenzene (Cumene)	**0.25U**	ug/m3	4.6	0.25	1.83		03/11/17 18:19	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/11/17 18:19	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/11/17 18:19	108-87-2	
Methylene Chloride	**2.0J**	ug/m3	6.5	0.99	1.83		03/11/17 18:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/11/17 18:19	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/11/17 18:19	1634-04-4	
2-Propanol	**2.3J**	ug/m3	4.6	0.44	1.83		03/11/17 18:19	67-63-0	
Styrene	**0.35U**	ug/m3	1.6	0.35	1.83		03/11/17 18:19	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/11/17 18:19	79-34-5	
Tetrachloroethene	**229**	ug/m3	1.3	0.51	1.83		03/11/17 18:19	127-18-4	
Toluene	**1.3J**	ug/m3	1.4	0.28	1.83		03/11/17 18:19	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/11/17 18:19	120-82-1	
1,1,1-Trichloroethane	**1.1J**	ug/m3	2.0	0.45	1.83		03/11/17 18:19	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/11/17 18:19	79-00-5	
Trichloroethene	**352**	ug/m3	5.0	2.5	9.15		03/12/17 14:34	79-01-6	
Trichlorofluoromethane	**3.6**	ug/m3	2.1	0.24	1.83		03/11/17 18:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	**8.2**	ug/m3	2.9	0.55	1.83		03/11/17 18:19	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.8	0.23	1.83		03/11/17 18:19	95-63-6	
1,3,5-Trimethylbenzene	**0.33U**	ug/m3	1.8	0.33	1.83		03/11/17 18:19	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/11/17 18:19	75-01-4	
m&p-Xylene	**1.4U**	ug/m3	3.2	1.4	1.83		03/11/17 18:19	179601-23-1	
o-Xylene	**0.64U**	ug/m3	1.6	0.64	1.83		03/11/17 18:19	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_61.5_20170226 **Lab ID: 10380372013** Collected: 02/26/17 12:26 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**92.1**	ug/m3	12.8	1.8	2.12		03/11/17 18:50	67-64-1	
Allyl chloride	**0.48U**	ug/m3	3.4	0.48	2.12		03/11/17 18:50	107-05-1	
Benzene	**2.8**	ug/m3	0.69	0.26	2.12		03/11/17 18:50	71-43-2	
Bromodichloromethane	**0.41U**	ug/m3	2.9	0.41	2.12		03/11/17 18:50	75-27-4	
Bromoform	**6.1J**	ug/m3	11.1	1.9	2.12		03/11/17 18:50	75-25-2	
Bromomethane	**0.66U**	ug/m3	1.7	0.66	2.12		03/11/17 18:50	74-83-9	
1,3-Butadiene	**0.37U**	ug/m3	0.95	0.37	2.12		03/11/17 18:50	106-99-0	
2-Butanone (MEK)	**5.8J**	ug/m3	6.4	0.48	2.12		03/11/17 18:50	78-93-3	
Carbon disulfide	**0.21U**	ug/m3	1.3	0.21	2.12		03/11/17 18:50	75-15-0	
Carbon tetrachloride	**3.1**	ug/m3	1.4	0.41	2.12		03/11/17 18:50	56-23-5	CH
Chlorobenzene	**0.28U**	ug/m3	2.0	0.28	2.12		03/11/17 18:50	108-90-7	
Chlorodifluoromethane	**0.59U**	ug/m3	1.5	0.59	2.12		03/11/17 18:50	75-45-6	
Chloroethane	**0.41U**	ug/m3	1.1	0.41	2.12		03/11/17 18:50	75-00-3	
Chloroform	**3.2**	ug/m3	1.1	0.40	2.12		03/11/17 18:50	67-66-3	
Chloromethane	**0.23U**	ug/m3	0.89	0.23	2.12		03/11/17 18:50	74-87-3	
Chloropentafluoroethane	**6.8U**	ug/m3	6.8	6.8	2.12		03/11/17 18:50	76-15-3	CL
Cyclohexane	**1.8**	ug/m3	1.5	0.67	2.12		03/11/17 18:50	110-82-7	
1,2-Dibromo-3-chloropropane	**10.4U**	ug/m3	10.4	10.4	2.12		03/11/17 18:50	96-12-8	
Dibromochloromethane	**1.8U**	ug/m3	3.7	1.8	2.12		03/11/17 18:50	124-48-1	
1,2-Dibromoethane (EDB)	**1.6U**	ug/m3	3.3	1.6	2.12		03/11/17 18:50	106-93-4	
1,2-Dichlorobenzene	**1.1U**	ug/m3	2.6	1.1	2.12		03/11/17 18:50	95-50-1	
1,3-Dichlorobenzene	**1.1U**	ug/m3	2.6	1.1	2.12		03/11/17 18:50	541-73-1	
1,4-Dichlorobenzene	**1.1U**	ug/m3	2.6	1.1	2.12		03/11/17 18:50	106-46-7	
Dichlorodifluoromethane	**5.6**	ug/m3	2.1	1.0	2.12		03/11/17 18:50	75-71-8	
1,1-Dichloroethane	**0.33U**	ug/m3	1.7	0.33	2.12		03/11/17 18:50	75-34-3	
1,2-Dichloroethane	**0.43U**	ug/m3	0.87	0.43	2.12		03/11/17 18:50	107-06-2	
1,1-Dichloroethene	**0.50U**	ug/m3	1.7	0.50	2.12		03/11/17 18:50	75-35-4	
cis-1,2-Dichloroethene	**2.2**	ug/m3	1.7	0.52	2.12		03/11/17 18:50	156-59-2	
trans-1,2-Dichloroethene	**0.81U**	ug/m3	1.7	0.81	2.12		03/11/17 18:50	156-60-5	
1,2-Dichloropropane	**0.57U**	ug/m3	2.0	0.57	2.12		03/11/17 18:50	78-87-5	
cis-1,3-Dichloropropene	**0.78U**	ug/m3	2.0	0.78	2.12		03/11/17 18:50	10061-01-5	
trans-1,3-Dichloropropene	**1.1J**	ug/m3	2.0	0.55	2.12		03/11/17 18:50	10061-02-6	
Dichlorotetrafluoroethane	**0.66U**	ug/m3	3.0	0.66	2.12		03/11/17 18:50	76-14-2	
Freon 123	**6.7U**	ug/m3	6.7	6.7	2.12		03/11/17 18:50	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.75U**	ug/m3	7.8	0.75	2.12		03/11/17 18:50	123-91-1	
Ethylbenzene	**2.6**	ug/m3	1.9	0.90	2.12		03/11/17 18:50	100-41-4	
4-Ethyltoluene	**1.9J**	ug/m3	2.1	0.40	2.12		03/11/17 18:50	622-96-8	
Hexachloro-1,3-butadiene	**3.3J**	ug/m3	4.6	1.4	2.12		03/11/17 18:50	87-68-3	
n-Hexane	**82.2**	ug/m3	1.5	0.76	2.12		03/11/17 18:50	110-54-3	
2-Hexanone	**1.5J**	ug/m3	8.8	0.87	2.12		03/11/17 18:50	591-78-6	
Isopropylbenzene (Cumene)	**1.2J**	ug/m3	5.3	0.29	2.12		03/11/17 18:50	98-82-8	
Methyl acetate	**3.3U**	ug/m3	3.3	3.3	2.12		03/11/17 18:50	79-20-9	
Methylcyclohexane	**0.51U**	ug/m3	1.7	0.51	2.12		03/11/17 18:50	108-87-2	
Methylene Chloride	**1640**	ug/m3	20.0	3.1	5.67		03/13/17 17:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.46U**	ug/m3	8.8	0.46	2.12		03/11/17 18:50	108-10-1	
Methyl-tert-butyl ether	**0.86J**	ug/m3	7.8	0.64	2.12		03/11/17 18:50	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_61.5_20170226 **Lab ID: 10380372013** Collected: 02/26/17 12:26 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**0.51U**	ug/m3	5.3	0.51	2.12		03/11/17 18:50	67-63-0	
Styrene	**0.41U**	ug/m3	1.8	0.41	2.12		03/11/17 18:50	100-42-5	
1,1,2,2-Tetrachloroethane	**1.5J**	ug/m3	1.5	0.70	2.12		03/11/17 18:50	79-34-5	
Tetrachloroethene	**126**	ug/m3	1.5	0.59	2.12		03/11/17 18:50	127-18-4	
Toluene	**18.4**	ug/m3	1.6	0.33	2.12		03/11/17 18:50	108-88-3	
1,2,4-Trichlorobenzene	**1.9U**	ug/m3	8.0	1.9	2.12		03/11/17 18:50	120-82-1	
1,1,1-Trichloroethane	**0.52U**	ug/m3	2.4	0.52	2.12		03/11/17 18:50	71-55-6	
1,1,2-Trichloroethane	**0.52U**	ug/m3	1.2	0.52	2.12		03/11/17 18:50	79-00-5	
Trichloroethene	**194**	ug/m3	1.2	0.59	2.12		03/11/17 18:50	79-01-6	
Trichlorofluoromethane	**4.8**	ug/m3	2.4	0.28	2.12		03/11/17 18:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	**5.6**	ug/m3	3.4	0.64	2.12		03/11/17 18:50	76-13-1	
1,2,4-Trimethylbenzene	**4.4**	ug/m3	2.1	0.26	2.12		03/11/17 18:50	95-63-6	
1,3,5-Trimethylbenzene	**2.1J**	ug/m3	2.1	0.39	2.12		03/11/17 18:50	108-67-8	
Vinyl chloride	**0.41U**	ug/m3	0.55	0.41	2.12		03/11/17 18:50	75-01-4	
m&p-Xylene	**7.4**	ug/m3	3.8	1.7	2.12		03/11/17 18:50	179601-23-1	
o-Xylene	**3.3**	ug/m3	1.9	0.74	2.12		03/11/17 18:50	95-47-6	

Sample: VP-103_74.5_20170226 **Lab ID: 10380372014** Collected: 02/26/17 12:08 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**96.6**	ug/m3	14.2	2.0	2.35		03/11/17 21:23	67-64-1	
Allyl chloride	**0.53U**	ug/m3	3.7	0.53	2.35		03/11/17 21:23	107-05-1	
Benzene	**4.0**	ug/m3	0.76	0.29	2.35		03/11/17 21:23	71-43-2	
Bromodichloromethane	**0.46U**	ug/m3	3.2	0.46	2.35		03/11/17 21:23	75-27-4	
Bromoform	**2.1U**	ug/m3	12.3	2.1	2.35		03/11/17 21:23	75-25-2	
Bromomethane	**0.73U**	ug/m3	1.9	0.73	2.35		03/11/17 21:23	74-83-9	
1,3-Butadiene	**0.41U**	ug/m3	1.1	0.41	2.35		03/11/17 21:23	106-99-0	
2-Butanone (MEK)	**2.6J**	ug/m3	7.0	0.54	2.35		03/11/17 21:23	78-93-3	
Carbon disulfide	**0.24U**	ug/m3	1.5	0.24	2.35		03/11/17 21:23	75-15-0	
Carbon tetrachloride	**2.0**	ug/m3	1.5	0.45	2.35		03/11/17 21:23	56-23-5	CH
Chlorobenzene	**0.31U**	ug/m3	2.2	0.31	2.35		03/11/17 21:23	108-90-7	
Chlorodifluoromethane	**0.65U**	ug/m3	1.7	0.65	2.35		03/11/17 21:23	75-45-6	
Chloroethane	**0.46U**	ug/m3	1.3	0.46	2.35		03/11/17 21:23	75-00-3	
Chloroform	**0.45U**	ug/m3	1.2	0.45	2.35		03/11/17 21:23	67-66-3	
Chloromethane	**3.2**	ug/m3	0.99	0.25	2.35		03/11/17 21:23	74-87-3	
Chloropentafluoroethane	**7.5U**	ug/m3	7.5	7.5	2.35		03/11/17 21:23	76-15-3	CL
Cyclohexane	**3.0**	ug/m3	1.6	0.74	2.35		03/11/17 21:23	110-82-7	
1,2-Dibromo-3-chloropropane	**11.5U**	ug/m3	11.5	11.5	2.35		03/11/17 21:23	96-12-8	
Dibromochloromethane	**2.0U**	ug/m3	4.1	2.0	2.35		03/11/17 21:23	124-48-1	
1,2-Dibromoethane (EDB)	**1.8U**	ug/m3	3.7	1.8	2.35		03/11/17 21:23	106-93-4	
1,2-Dichlorobenzene	**1.2U**	ug/m3	2.9	1.2	2.35		03/11/17 21:23	95-50-1	
1,3-Dichlorobenzene	**1.2U**	ug/m3	2.9	1.2	2.35		03/11/17 21:23	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-103_74.5_20170226 **Lab ID: 10380372014** Collected: 02/26/17 12:08 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**1.2U**	ug/m3	2.9	1.2	2.35		03/11/17 21:23	106-46-7	
Dichlorodifluoromethane	**7.6**	ug/m3	2.4	1.1	2.35		03/11/17 21:23	75-71-8	
1,1-Dichloroethane	**0.37U**	ug/m3	1.9	0.37	2.35		03/11/17 21:23	75-34-3	
1,2-Dichloroethane	**0.48U**	ug/m3	0.96	0.48	2.35		03/11/17 21:23	107-06-2	
1,1-Dichloroethene	**0.56U**	ug/m3	1.9	0.56	2.35		03/11/17 21:23	75-35-4	
cis-1,2-Dichloroethene	**0.58U**	ug/m3	1.9	0.58	2.35		03/11/17 21:23	156-59-2	
trans-1,2-Dichloroethene	**0.90U**	ug/m3	1.9	0.90	2.35		03/11/17 21:23	156-60-5	
1,2-Dichloropropane	**0.63U**	ug/m3	2.2	0.63	2.35		03/11/17 21:23	78-87-5	
cis-1,3-Dichloropropene	**0.87U**	ug/m3	2.2	0.87	2.35		03/11/17 21:23	10061-01-5	
trans-1,3-Dichloropropene	**0.61U**	ug/m3	2.2	0.61	2.35		03/11/17 21:23	10061-02-6	
Dichlorotetrafluoroethane	**0.73U**	ug/m3	3.3	0.73	2.35		03/11/17 21:23	76-14-2	
Freon 123	**7.5U**	ug/m3	7.5	7.5	2.35		03/11/17 21:23	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.83U**	ug/m3	8.6	0.83	2.35		03/11/17 21:23	123-91-1	
Ethylbenzene	**2.9**	ug/m3	2.1	1.0	2.35		03/11/17 21:23	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	2.4	0.44	2.35		03/11/17 21:23	622-96-8	
Hexachloro-1,3-butadiene	**1.5U**	ug/m3	5.1	1.5	2.35		03/11/17 21:23	87-68-3	
n-Hexane	**77.1**	ug/m3	1.7	0.84	2.35		03/11/17 21:23	110-54-3	
2-Hexanone	**0.96U**	ug/m3	9.8	0.96	2.35		03/11/17 21:23	591-78-6	
Isopropylbenzene (Cumene)	**0.32U**	ug/m3	5.9	0.32	2.35		03/11/17 21:23	98-82-8	
Methyl acetate	**3.6U**	ug/m3	3.6	3.6	2.35		03/11/17 21:23	79-20-9	
Methylcyclohexane	**0.57U**	ug/m3	1.9	0.57	2.35		03/11/17 21:23	108-87-2	
Methylene Chloride	**268**	ug/m3	222	34.1	62.85		03/12/17 16:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.51U**	ug/m3	9.8	0.51	2.35		03/11/17 21:23	108-10-1	
Methyl-tert-butyl ether	**0.71U**	ug/m3	8.6	0.71	2.35		03/11/17 21:23	1634-04-4	
2-Propanol	**12.9**	ug/m3	5.9	0.56	2.35		03/11/17 21:23	67-63-0	
Styrene	**1.1J**	ug/m3	2.0	0.45	2.35		03/11/17 21:23	100-42-5	
1,1,2,2-Tetrachloroethane	**0.77U**	ug/m3	1.6	0.77	2.35		03/11/17 21:23	79-34-5	
Tetrachloroethene	**44.1**	ug/m3	1.6	0.65	2.35		03/11/17 21:23	127-18-4	
Toluene	**37.0**	ug/m3	1.8	0.36	2.35		03/11/17 21:23	108-88-3	
1,2,4-Trichlorobenzene	**2.1U**	ug/m3	8.9	2.1	2.35		03/11/17 21:23	120-82-1	
1,1,1-Trichloroethane	**0.58U**	ug/m3	2.6	0.58	2.35		03/11/17 21:23	71-55-6	
1,1,2-Trichloroethane	**0.58U**	ug/m3	1.3	0.58	2.35		03/11/17 21:23	79-00-5	
Trichloroethene	**66.4**	ug/m3	1.3	0.65	2.35		03/11/17 21:23	79-01-6	
Trichlorofluoromethane	**4.7**	ug/m3	2.7	0.31	2.35		03/11/17 21:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.0J**	ug/m3	3.8	0.71	2.35		03/11/17 21:23	76-13-1	
1,2,4-Trimethylbenzene	**4.7**	ug/m3	2.3	0.29	2.35		03/11/17 21:23	95-63-6	
1,3,5-Trimethylbenzene	**1.7J**	ug/m3	2.3	0.43	2.35		03/11/17 21:23	108-67-8	
Vinyl chloride	**0.46U**	ug/m3	0.61	0.46	2.35		03/11/17 21:23	75-01-4	
m&p-Xylene	**10.2**	ug/m3	4.2	1.8	2.35		03/11/17 21:23	179601-23-1	
o-Xylene	**4.1**	ug/m3	2.1	0.82	2.35		03/11/17 21:23	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_5_20170226 **Lab ID: 10380372015** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**60.4**	ug/m3	10.1	1.4	1.68		03/11/17 21:54	67-64-1	
Allyl chloride	**0.38U**	ug/m3	2.7	0.38	1.68		03/11/17 21:54	107-05-1	
Benzene	**2.4**	ug/m3	0.55	0.20	1.68		03/11/17 21:54	71-43-2	
Bromodichloromethane	**0.33U**	ug/m3	2.3	0.33	1.68		03/11/17 21:54	75-27-4	
Bromoform	**1.5U**	ug/m3	8.8	1.5	1.68		03/11/17 21:54	75-25-2	
Bromomethane	**0.52U**	ug/m3	1.3	0.52	1.68		03/11/17 21:54	74-83-9	
1,3-Butadiene	**0.30U**	ug/m3	0.76	0.30	1.68		03/11/17 21:54	106-99-0	
2-Butanone (MEK)	**0.38U**	ug/m3	5.0	0.38	1.68		03/11/17 21:54	78-93-3	
Carbon disulfide	**0.17U**	ug/m3	1.1	0.17	1.68		03/11/17 21:54	75-15-0	
Carbon tetrachloride	**0.32U**	ug/m3	1.1	0.32	1.68		03/11/17 21:54	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.68		03/11/17 21:54	108-90-7	
Chlorodifluoromethane	**24.9**	ug/m3	1.2	0.46	1.68		03/11/17 21:54	75-45-6	
Chloroethane	**0.33U**	ug/m3	0.91	0.33	1.68		03/11/17 21:54	75-00-3	
Chloroform	**0.32U**	ug/m3	0.83	0.32	1.68		03/11/17 21:54	67-66-3	
Chloromethane	**0.18U**	ug/m3	0.71	0.18	1.68		03/11/17 21:54	74-87-3	
Chloropentafluoroethane	**5.4U**	ug/m3	5.4	5.4	1.68		03/11/17 21:54	76-15-3	CL
Cyclohexane	**2.1**	ug/m3	1.2	0.53	1.68		03/11/17 21:54	110-82-7	
1,2-Dibromo-3-chloropropane	**8.2U**	ug/m3	8.2	8.2	1.68		03/11/17 21:54	96-12-8	
Dibromochloromethane	**1.4U**	ug/m3	2.9	1.4	1.68		03/11/17 21:54	124-48-1	
1,2-Dibromoethane (EDB)	**1.3U**	ug/m3	2.6	1.3	1.68		03/11/17 21:54	106-93-4	
1,2-Dichlorobenzene	**0.86U**	ug/m3	2.0	0.86	1.68		03/11/17 21:54	95-50-1	
1,3-Dichlorobenzene	**0.89U**	ug/m3	2.0	0.89	1.68		03/11/17 21:54	541-73-1	
1,4-Dichlorobenzene	**0.84U**	ug/m3	2.0	0.84	1.68		03/11/17 21:54	106-46-7	
Dichlorodifluoromethane	**5.1**	ug/m3	1.7	0.81	1.68		03/11/17 21:54	75-71-8	
1,1-Dichloroethane	**0.26U**	ug/m3	1.4	0.26	1.68		03/11/17 21:54	75-34-3	
1,2-Dichloroethane	**0.34U**	ug/m3	0.69	0.34	1.68		03/11/17 21:54	107-06-2	
1,1-Dichloroethene	**0.40U**	ug/m3	1.4	0.40	1.68		03/11/17 21:54	75-35-4	
cis-1,2-Dichloroethene	**0.41U**	ug/m3	1.4	0.41	1.68		03/11/17 21:54	156-59-2	
trans-1,2-Dichloroethene	**0.65U**	ug/m3	1.4	0.65	1.68		03/11/17 21:54	156-60-5	
1,2-Dichloropropane	**0.45U**	ug/m3	1.6	0.45	1.68		03/11/17 21:54	78-87-5	
cis-1,3-Dichloropropene	**0.62U**	ug/m3	1.5	0.62	1.68		03/11/17 21:54	10061-01-5	
trans-1,3-Dichloropropene	**0.44U**	ug/m3	1.5	0.44	1.68		03/11/17 21:54	10061-02-6	
Dichlorotetrafluoroethane	**0.52U**	ug/m3	2.4	0.52	1.68		03/11/17 21:54	76-14-2	
Freon 123	**5.3U**	ug/m3	5.3	5.3	1.68		03/11/17 21:54	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.59U**	ug/m3	6.1	0.59	1.68		03/11/17 21:54	123-91-1	
Ethylbenzene	**3.2**	ug/m3	1.5	0.71	1.68		03/11/17 21:54	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.7	0.32	1.68		03/11/17 21:54	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.6	1.1	1.68		03/11/17 21:54	87-68-3	
n-Hexane	**40.5**	ug/m3	1.2	0.60	1.68		03/11/17 21:54	110-54-3	
2-Hexanone	**0.69U**	ug/m3	7.0	0.69	1.68		03/11/17 21:54	591-78-6	
Isopropylbenzene (Cumene)	**0.23U**	ug/m3	4.2	0.23	1.68		03/11/17 21:54	98-82-8	
Methyl acetate	**2.6U**	ug/m3	2.6	2.6	1.68		03/11/17 21:54	79-20-9	
Methylcyclohexane	**1.1J**	ug/m3	1.4	0.41	1.68		03/11/17 21:54	108-87-2	
Methylene Chloride	**176**	ug/m3	159	24.4	45.02		03/12/17 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.36U**	ug/m3	7.0	0.36	1.68		03/11/17 21:54	108-10-1	
Methyl-tert-butyl ether	**0.51U**	ug/m3	6.2	0.51	1.68		03/11/17 21:54	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_5_20170226 **Lab ID: 10380372015** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**22.2**	ug/m3	4.2	0.40	1.68		03/11/17 21:54	67-63-0	
Styrene	**0.32U**	ug/m3	1.5	0.32	1.68		03/11/17 21:54	100-42-5	
1,1,2,2-Tetrachloroethane	**0.55U**	ug/m3	1.2	0.55	1.68		03/11/17 21:54	79-34-5	
Tetrachloroethene	**0.47U**	ug/m3	1.2	0.47	1.68		03/11/17 21:54	127-18-4	
Toluene	**10.4**	ug/m3	1.3	0.26	1.68		03/11/17 21:54	108-88-3	
1,2,4-Trichlorobenzene	**1.5U**	ug/m3	6.3	1.5	1.68		03/11/17 21:54	120-82-1	
1,1,1-Trichloroethane	**0.41U**	ug/m3	1.9	0.41	1.68		03/11/17 21:54	71-55-6	
1,1,2-Trichloroethane	**0.41U**	ug/m3	0.92	0.41	1.68		03/11/17 21:54	79-00-5	
Trichloroethene	**0.46U**	ug/m3	0.92	0.46	1.68		03/11/17 21:54	79-01-6	
Trichlorofluoromethane	**2.8**	ug/m3	1.9	0.22	1.68		03/11/17 21:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.51U**	ug/m3	2.7	0.51	1.68		03/11/17 21:54	76-13-1	
1,2,4-Trimethylbenzene	**4.4**	ug/m3	1.7	0.21	1.68		03/11/17 21:54	95-63-6	
1,3,5-Trimethylbenzene	**2.0**	ug/m3	1.7	0.31	1.68		03/11/17 21:54	108-67-8	
Vinyl chloride	**0.33U**	ug/m3	0.44	0.33	1.68		03/11/17 21:54	75-01-4	
m&p-Xylene	**12.6**	ug/m3	3.0	1.3	1.68		03/11/17 21:54	179601-23-1	
o-Xylene	**3.9**	ug/m3	1.5	0.59	1.68		03/11/17 21:54	95-47-6	

Sample: LIJ-VP-7_10_20170226 **Lab ID: 10380372016** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.0**	ug/m3	10.1	1.4	1.68		03/11/17 22:22	67-64-1	
Allyl chloride	**0.38U**	ug/m3	2.7	0.38	1.68		03/11/17 22:22	107-05-1	
Benzene	**0.49J**	ug/m3	0.55	0.20	1.68		03/11/17 22:22	71-43-2	
Bromodichloromethane	**0.33U**	ug/m3	2.3	0.33	1.68		03/11/17 22:22	75-27-4	
Bromoform	**1.5U**	ug/m3	8.8	1.5	1.68		03/11/17 22:22	75-25-2	
Bromomethane	**0.52U**	ug/m3	1.3	0.52	1.68		03/11/17 22:22	74-83-9	
1,3-Butadiene	**0.30U**	ug/m3	0.76	0.30	1.68		03/11/17 22:22	106-99-0	
2-Butanone (MEK)	**2.3J**	ug/m3	5.0	0.38	1.68		03/11/17 22:22	78-93-3	
Carbon disulfide	**0.17U**	ug/m3	1.1	0.17	1.68		03/11/17 22:22	75-15-0	
Carbon tetrachloride	**0.32U**	ug/m3	1.1	0.32	1.68		03/11/17 22:22	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.68		03/11/17 22:22	108-90-7	
Chlorodifluoromethane	**35.3**	ug/m3	1.2	0.46	1.68		03/11/17 22:22	75-45-6	
Chloroethane	**0.33U**	ug/m3	0.91	0.33	1.68		03/11/17 22:22	75-00-3	
Chloroform	**0.32U**	ug/m3	0.83	0.32	1.68		03/11/17 22:22	67-66-3	
Chloromethane	**1.0**	ug/m3	0.71	0.18	1.68		03/11/17 22:22	74-87-3	
Chloropentafluoroethane	**5.4U**	ug/m3	5.4	5.4	1.68		03/11/17 22:22	76-15-3	CL
Cyclohexane	**0.81J**	ug/m3	1.2	0.53	1.68		03/11/17 22:22	110-82-7	
1,2-Dibromo-3-chloropropane	**8.2U**	ug/m3	8.2	8.2	1.68		03/11/17 22:22	96-12-8	
Dibromochloromethane	**1.4U**	ug/m3	2.9	1.4	1.68		03/11/17 22:22	124-48-1	
1,2-Dibromoethane (EDB)	**1.3U**	ug/m3	2.6	1.3	1.68		03/11/17 22:22	106-93-4	
1,2-Dichlorobenzene	**0.86U**	ug/m3	2.0	0.86	1.68		03/11/17 22:22	95-50-1	
1,3-Dichlorobenzene	**0.89U**	ug/m3	2.0	0.89	1.68		03/11/17 22:22	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_10_20170226 **Lab ID: 10380372016** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.84U**	ug/m3	2.0	0.84	1.68		03/11/17 22:22	106-46-7	
Dichlorodifluoromethane	**3.1**	ug/m3	1.7	0.81	1.68		03/11/17 22:22	75-71-8	
1,1-Dichloroethane	**0.26U**	ug/m3	1.4	0.26	1.68		03/11/17 22:22	75-34-3	
1,2-Dichloroethane	**0.34U**	ug/m3	0.69	0.34	1.68		03/11/17 22:22	107-06-2	
1,1-Dichloroethene	**0.40U**	ug/m3	1.4	0.40	1.68		03/11/17 22:22	75-35-4	
cis-1,2-Dichloroethene	**0.41U**	ug/m3	1.4	0.41	1.68		03/11/17 22:22	156-59-2	
trans-1,2-Dichloroethene	**0.65U**	ug/m3	1.4	0.65	1.68		03/11/17 22:22	156-60-5	
1,2-Dichloropropane	**0.45U**	ug/m3	1.6	0.45	1.68		03/11/17 22:22	78-87-5	
cis-1,3-Dichloropropene	**0.62U**	ug/m3	1.5	0.62	1.68		03/11/17 22:22	10061-01-5	
trans-1,3-Dichloropropene	**0.44U**	ug/m3	1.5	0.44	1.68		03/11/17 22:22	10061-02-6	
Dichlorotetrafluoroethane	**0.52U**	ug/m3	2.4	0.52	1.68		03/11/17 22:22	76-14-2	
Freon 123	**5.3U**	ug/m3	5.3	5.3	1.68		03/11/17 22:22	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.59U**	ug/m3	6.1	0.59	1.68		03/11/17 22:22	123-91-1	
Ethylbenzene	**3.3**	ug/m3	1.5	0.71	1.68		03/11/17 22:22	100-41-4	
4-Ethyltoluene	**0.32U**	ug/m3	1.7	0.32	1.68		03/11/17 22:22	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.6	1.1	1.68		03/11/17 22:22	87-68-3	
n-Hexane	**1.7**	ug/m3	1.2	0.60	1.68		03/11/17 22:22	110-54-3	
2-Hexanone	**0.69U**	ug/m3	7.0	0.69	1.68		03/11/17 22:22	591-78-6	
Isopropylbenzene (Cumene)	**0.23U**	ug/m3	4.2	0.23	1.68		03/11/17 22:22	98-82-8	
Methyl acetate	**2.6U**	ug/m3	2.6	2.6	1.68		03/11/17 22:22	79-20-9	
Methylcyclohexane	**0.41U**	ug/m3	1.4	0.41	1.68		03/11/17 22:22	108-87-2	
Methylene Chloride	**14.0**	ug/m3	5.9	0.91	1.68		03/11/17 22:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.36U**	ug/m3	7.0	0.36	1.68		03/11/17 22:22	108-10-1	
Methyl-tert-butyl ether	**0.51U**	ug/m3	6.2	0.51	1.68		03/11/17 22:22	1634-04-4	
2-Propanol	**39.6**	ug/m3	4.2	0.40	1.68		03/11/17 22:22	67-63-0	
Styrene	**0.32U**	ug/m3	1.5	0.32	1.68		03/11/17 22:22	100-42-5	
1,1,2,2-Tetrachloroethane	**0.55U**	ug/m3	1.2	0.55	1.68		03/11/17 22:22	79-34-5	
Tetrachloroethene	**1.1J**	ug/m3	1.2	0.47	1.68		03/11/17 22:22	127-18-4	
Toluene	**2.1**	ug/m3	1.3	0.26	1.68		03/11/17 22:22	108-88-3	
1,2,4-Trichlorobenzene	**1.5U**	ug/m3	6.3	1.5	1.68		03/11/17 22:22	120-82-1	
1,1,1-Trichloroethane	**0.41U**	ug/m3	1.9	0.41	1.68		03/11/17 22:22	71-55-6	
1,1,2-Trichloroethane	**0.41U**	ug/m3	0.92	0.41	1.68		03/11/17 22:22	79-00-5	
Trichloroethene	**0.46U**	ug/m3	0.92	0.46	1.68		03/11/17 22:22	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.9	0.22	1.68		03/11/17 22:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.51U**	ug/m3	2.7	0.51	1.68		03/11/17 22:22	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.21	1.68		03/11/17 22:22	95-63-6	
1,3,5-Trimethylbenzene	**0.79J**	ug/m3	1.7	0.31	1.68		03/11/17 22:22	108-67-8	
Vinyl chloride	**0.33U**	ug/m3	0.44	0.33	1.68		03/11/17 22:22	75-01-4	
m&p-Xylene	**11.2**	ug/m3	3.0	1.3	1.68		03/11/17 22:22	179601-23-1	
o-Xylene	**3.0**	ug/m3	1.5	0.59	1.68		03/11/17 22:22	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_20_20170226 **Lab ID: 10380372017** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**1.6U**	ug/m3	11.6	1.6	1.92		03/11/17 22:49	67-64-1	
Allyl chloride	**0.44U**	ug/m3	3.1	0.44	1.92		03/11/17 22:49	107-05-1	
Benzene	**0.84**	ug/m3	0.62	0.23	1.92		03/11/17 22:49	71-43-2	
Bromodichloromethane	**0.37U**	ug/m3	2.6	0.37	1.92		03/11/17 22:49	75-27-4	
Bromoform	**1.7U**	ug/m3	10.1	1.7	1.92		03/11/17 22:49	75-25-2	
Bromomethane	**0.60U**	ug/m3	1.5	0.60	1.92		03/11/17 22:49	74-83-9	
1,3-Butadiene	**0.34U**	ug/m3	0.86	0.34	1.92		03/11/17 22:49	106-99-0	
2-Butanone (MEK)	**0.44U**	ug/m3	5.8	0.44	1.92		03/11/17 22:49	78-93-3	
Carbon disulfide	**0.19U**	ug/m3	1.2	0.19	1.92		03/11/17 22:49	75-15-0	
Carbon tetrachloride	**0.37U**	ug/m3	1.2	0.37	1.92		03/11/17 22:49	56-23-5	
Chlorobenzene	**0.26U**	ug/m3	1.8	0.26	1.92		03/11/17 22:49	108-90-7	
Chlorodifluoromethane	**0.53U**	ug/m3	1.4	0.53	1.92		03/11/17 22:49	75-45-6	
Chloroethane	**0.37U**	ug/m3	1.0	0.37	1.92		03/11/17 22:49	75-00-3	
Chloroform	**12.0**	ug/m3	0.95	0.36	1.92		03/11/17 22:49	67-66-3	
Chloromethane	**0.21U**	ug/m3	0.81	0.21	1.92		03/11/17 22:49	74-87-3	
Chloropentafluoroethane	**6.2U**	ug/m3	6.2	6.2	1.92		03/11/17 22:49	76-15-3	CL
Cyclohexane	**0.61U**	ug/m3	1.3	0.61	1.92		03/11/17 22:49	110-82-7	
1,2-Dibromo-3-chloropropane	**9.4U**	ug/m3	9.4	9.4	1.92		03/11/17 22:49	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.3	1.6	1.92		03/11/17 22:49	124-48-1	
1,2-Dibromoethane (EDB)	**1.5U**	ug/m3	3.0	1.5	1.92		03/11/17 22:49	106-93-4	
1,2-Dichlorobenzene	**0.98U**	ug/m3	2.3	0.98	1.92		03/11/17 22:49	95-50-1	
1,3-Dichlorobenzene	**1.0U**	ug/m3	2.3	1.0	1.92		03/11/17 22:49	541-73-1	
1,4-Dichlorobenzene	**0.96U**	ug/m3	2.3	0.96	1.92		03/11/17 22:49	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.9	0.92	1.92		03/11/17 22:49	75-71-8	
1,1-Dichloroethane	**0.30U**	ug/m3	1.6	0.30	1.92		03/11/17 22:49	75-34-3	
1,2-Dichloroethane	**0.39U**	ug/m3	0.79	0.39	1.92		03/11/17 22:49	107-06-2	
1,1-Dichloroethene	**0.46U**	ug/m3	1.6	0.46	1.92		03/11/17 22:49	75-35-4	
cis-1,2-Dichloroethene	**156**	ug/m3	1.6	0.47	1.92		03/11/17 22:49	156-59-2	
trans-1,2-Dichloroethene	**3.8**	ug/m3	1.6	0.74	1.92		03/11/17 22:49	156-60-5	
1,2-Dichloropropane	**0.52U**	ug/m3	1.8	0.52	1.92		03/11/17 22:49	78-87-5	
cis-1,3-Dichloropropene	**0.71U**	ug/m3	1.8	0.71	1.92		03/11/17 22:49	10061-01-5	
trans-1,3-Dichloropropene	**0.50U**	ug/m3	1.8	0.50	1.92		03/11/17 22:49	10061-02-6	
Dichlorotetrafluoroethane	**0.60U**	ug/m3	2.7	0.60	1.92		03/11/17 22:49	76-14-2	
Freon 123	**6.1U**	ug/m3	6.1	6.1	1.92		03/11/17 22:49	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.68U**	ug/m3	7.0	0.68	1.92		03/11/17 22:49	123-91-1	
Ethylbenzene	**0.82U**	ug/m3	1.7	0.82	1.92		03/11/17 22:49	100-41-4	
4-Ethyltoluene	**0.36U**	ug/m3	1.9	0.36	1.92		03/11/17 22:49	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.2	1.2	1.92		03/11/17 22:49	87-68-3	
n-Hexane	**0.95J**	ug/m3	1.4	0.69	1.92		03/11/17 22:49	110-54-3	
2-Hexanone	**0.79U**	ug/m3	8.0	0.79	1.92		03/11/17 22:49	591-78-6	
Isopropylbenzene (Cumene)	**0.26U**	ug/m3	4.8	0.26	1.92		03/11/17 22:49	98-82-8	
Methyl acetate	**3.0U**	ug/m3	3.0	3.0	1.92		03/11/17 22:49	79-20-9	
Methylcyclohexane	**0.46U**	ug/m3	1.6	0.46	1.92		03/11/17 22:49	108-87-2	
Methylene Chloride	**2.8J**	ug/m3	6.8	1.0	1.92		03/11/17 22:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.42U**	ug/m3	8.0	0.42	1.92		03/11/17 22:49	108-10-1	
Methyl-tert-butyl ether	**0.58U**	ug/m3	7.0	0.58	1.92		03/11/17 22:49	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_20_20170226 **Lab ID: 10380372017** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**4.2J**	ug/m3	4.8	0.46	1.92		03/11/17 22:49	67-63-0	
Styrene	**0.37U**	ug/m3	1.7	0.37	1.92		03/11/17 22:49	100-42-5	
1,1,2,2-Tetrachloroethane	**0.63U**	ug/m3	1.3	0.63	1.92		03/11/17 22:49	79-34-5	
Tetrachloroethene	**4570**	ug/m3	106	42.7	153.6		03/12/17 16:52	127-18-4	
Toluene	**1.0J**	ug/m3	1.5	0.30	1.92		03/11/17 22:49	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	7.2	1.7	1.92		03/11/17 22:49	120-82-1	
1,1,1-Trichloroethane	**0.47U**	ug/m3	2.1	0.47	1.92		03/11/17 22:49	71-55-6	
1,1,2-Trichloroethane	**0.47U**	ug/m3	1.1	0.47	1.92		03/11/17 22:49	79-00-5	
Trichloroethene	**3320**	ug/m3	84.5	42.4	153.6		03/12/17 16:52	79-01-6	A3
Trichlorofluoromethane	**2.5**	ug/m3	2.2	0.25	1.92		03/11/17 22:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**50.0**	ug/m3	3.1	0.58	1.92		03/11/17 22:49	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.9	0.24	1.92		03/11/17 22:49	95-63-6	
1,3,5-Trimethylbenzene	**0.35U**	ug/m3	1.9	0.35	1.92		03/11/17 22:49	108-67-8	
Vinyl chloride	**0.37U**	ug/m3	0.50	0.37	1.92		03/11/17 22:49	75-01-4	
m&p-Xylene	**1.5J**	ug/m3	3.4	1.5	1.92		03/11/17 22:49	179601-23-1	
o-Xylene	**0.95J**	ug/m3	1.7	0.67	1.92		03/11/17 22:49	95-47-6	

Sample: LIJ-VP-7_40_20170226 **Lab ID: 10380372018** Collected: 02/26/17 13:37 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.4**	ug/m3	10.6	1.5	1.75		03/11/17 23:18	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/11/17 23:18	107-05-1	
Benzene	**2.5**	ug/m3	0.57	0.21	1.75		03/11/17 23:18	71-43-2	
Bromodichloromethane	**0.34U**	ug/m3	2.4	0.34	1.75		03/11/17 23:18	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/11/17 23:18	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/11/17 23:18	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/11/17 23:18	106-99-0	
2-Butanone (MEK)	**2.1J**	ug/m3	5.2	0.40	1.75		03/11/17 23:18	78-93-3	
Carbon disulfide	**1.1**	ug/m3	1.1	0.18	1.75		03/11/17 23:18	75-15-0	
Carbon tetrachloride	**2.4**	ug/m3	1.1	0.34	1.75		03/11/17 23:18	56-23-5	CH
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/11/17 23:18	108-90-7	
Chlorodifluoromethane	**0.48U**	ug/m3	1.3	0.48	1.75		03/11/17 23:18	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/11/17 23:18	75-00-3	
Chloroform	**136**	ug/m3	0.87	0.33	1.75		03/11/17 23:18	67-66-3	
Chloromethane	**0.19U**	ug/m3	0.74	0.19	1.75		03/11/17 23:18	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 23:18	76-15-3	CL
Cyclohexane	**2.4**	ug/m3	1.2	0.55	1.75		03/11/17 23:18	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/11/17 23:18	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/11/17 23:18	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/11/17 23:18	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/11/17 23:18	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/11/17 23:18	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_40_20170226 **Lab ID: 10380372018** Collected: 02/26/17 13:37 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/11/17 23:18	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.8	0.84	1.75		03/11/17 23:18	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/11/17 23:18	75-34-3	
1,2-Dichloroethane	**1.0**	ug/m3	0.72	0.36	1.75		03/11/17 23:18	107-06-2	
1,1-Dichloroethene	**2.4**	ug/m3	1.4	0.42	1.75		03/11/17 23:18	75-35-4	
cis-1,2-Dichloroethene	**5200**	ug/m3	907	276	1120		03/12/17 18:01	156-59-2	A3
trans-1,2-Dichloroethene	**48.4**	ug/m3	1.4	0.67	1.75		03/11/17 23:18	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/11/17 23:18	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/11/17 23:18	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/11/17 23:18	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/11/17 23:18	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 23:18	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/11/17 23:18	123-91-1	
Ethylbenzene	**1.2J**	ug/m3	1.5	0.74	1.75		03/11/17 23:18	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/11/17 23:18	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/11/17 23:18	87-68-3	
n-Hexane	**3.7**	ug/m3	1.3	0.62	1.75		03/11/17 23:18	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/11/17 23:18	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/11/17 23:18	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/11/17 23:18	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/11/17 23:18	108-87-2	
Methylene Chloride	**1.5J**	ug/m3	6.2	0.95	1.75		03/11/17 23:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/11/17 23:18	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/11/17 23:18	1634-04-4	
2-Propanol	**7.4**	ug/m3	4.4	0.42	1.75		03/11/17 23:18	67-63-0	
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/11/17 23:18	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/11/17 23:18	79-34-5	
Tetrachloroethene	**13400**	ug/m3	772	311	1120		03/12/17 18:01	127-18-4	
Toluene	**2.4**	ug/m3	1.3	0.27	1.75		03/11/17 23:18	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/11/17 23:18	120-82-1	
1,1,1-Trichloroethane	**2.0**	ug/m3	1.9	0.43	1.75		03/11/17 23:18	71-55-6	
1,1,2-Trichloroethane	**9.2**	ug/m3	0.96	0.43	1.75		03/11/17 23:18	79-00-5	
Trichloroethene	**18000**	ug/m3	616	309	1120		03/12/17 18:01	79-01-6	
Trichlorofluoromethane	**3.4**	ug/m3	2.0	0.23	1.75		03/11/17 23:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	**62.7**	ug/m3	2.8	0.53	1.75		03/11/17 23:18	76-13-1	
1,2,4-Trimethylbenzene	**1.1J**	ug/m3	1.7	0.22	1.75		03/11/17 23:18	95-63-6	
1,3,5-Trimethylbenzene	**0.57J**	ug/m3	1.7	0.32	1.75		03/11/17 23:18	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/11/17 23:18	75-01-4	
m&p-Xylene	**1.8J**	ug/m3	3.1	1.4	1.75		03/11/17 23:18	179601-23-1	
o-Xylene	**0.84J**	ug/m3	1.5	0.61	1.75		03/11/17 23:18	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_50_20170226 **Lab ID: 10380372019** Collected: 02/26/17 13:35 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**5.3J**	ug/m3	10.6	1.5	1.75		03/11/17 23:46	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/11/17 23:46	107-05-1	
Benzene	**0.21U**	ug/m3	0.57	0.21	1.75		03/11/17 23:46	71-43-2	
Bromodichloromethane	**1.3J**	ug/m3	2.4	0.34	1.75		03/11/17 23:46	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/11/17 23:46	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/11/17 23:46	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/11/17 23:46	106-99-0	
2-Butanone (MEK)	**1.0J**	ug/m3	5.2	0.40	1.75		03/11/17 23:46	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/11/17 23:46	75-15-0	
Carbon tetrachloride	**1.9**	ug/m3	1.1	0.34	1.75		03/11/17 23:46	56-23-5	CH
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/11/17 23:46	108-90-7	
Chlorodifluoromethane	**14.7**	ug/m3	1.3	0.48	1.75		03/11/17 23:46	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/11/17 23:46	75-00-3	
Chloroform	**19.4**	ug/m3	0.87	0.33	1.75		03/11/17 23:46	67-66-3	
Chloromethane	**0.19U**	ug/m3	0.74	0.19	1.75		03/11/17 23:46	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 23:46	76-15-3	CL
Cyclohexane	**0.55U**	ug/m3	1.2	0.55	1.75		03/11/17 23:46	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/11/17 23:46	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/11/17 23:46	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/11/17 23:46	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/11/17 23:46	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/11/17 23:46	541-73-1	
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/11/17 23:46	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.84	1.75		03/11/17 23:46	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/11/17 23:46	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/11/17 23:46	107-06-2	
1,1-Dichloroethene	**0.74J**	ug/m3	1.4	0.42	1.75		03/11/17 23:46	75-35-4	
cis-1,2-Dichloroethene	**210**	ug/m3	113	34.4	140		03/12/17 17:38	156-59-2	A3
trans-1,2-Dichloroethene	**3.5**	ug/m3	1.4	0.67	1.75		03/11/17 23:46	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/11/17 23:46	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/11/17 23:46	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/11/17 23:46	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/11/17 23:46	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/11/17 23:46	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/11/17 23:46	123-91-1	
Ethylbenzene	**0.91J**	ug/m3	1.5	0.74	1.75		03/11/17 23:46	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/11/17 23:46	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/11/17 23:46	87-68-3	
n-Hexane	**1.3**	ug/m3	1.3	0.62	1.75		03/11/17 23:46	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/11/17 23:46	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/11/17 23:46	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/11/17 23:46	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/11/17 23:46	108-87-2	
Methylene Chloride	**6.8**	ug/m3	6.2	0.95	1.75		03/11/17 23:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/11/17 23:46	108-10-1	
Methyl-tert-butyl ether	**1.4J**	ug/m3	6.4	0.53	1.75		03/11/17 23:46	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_50_20170226 **Lab ID: 10380372019** Collected: 02/26/17 13:35 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**7.4**	ug/m3	4.4	0.42	1.75		03/11/17 23:46	67-63-0	
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/11/17 23:46	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/11/17 23:46	79-34-5	
Tetrachloroethene	**2150**	ug/m3	96.5	38.9	140		03/12/17 17:38	127-18-4	1M,C0
Toluene	**11.1**	ug/m3	1.3	0.27	1.75		03/11/17 23:46	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/11/17 23:46	120-82-1	
1,1,1-Trichloroethane	**2.0**	ug/m3	1.9	0.43	1.75		03/11/17 23:46	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/11/17 23:46	79-00-5	
Trichloroethene	**2440**	ug/m3	77.0	38.6	140		03/12/17 17:38	79-01-6	
Trichlorofluoromethane	**2.9**	ug/m3	2.0	0.23	1.75		03/11/17 23:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	**18.3**	ug/m3	2.8	0.53	1.75		03/11/17 23:46	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.22	1.75		03/11/17 23:46	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/11/17 23:46	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/11/17 23:46	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.1	1.4	1.75		03/11/17 23:46	179601-23-1	
o-Xylene	**1.1J**	ug/m3	1.5	0.61	1.75		03/11/17 23:46	95-47-6	

Sample: LIJ-VP-7_50_20170226DUP **Lab ID: 10380372020** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

MLA 5/5/17

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**19.8**	ug/m3	10.6	1.5	1.75		03/12/17 00:14	67-64-1	
Allyl chloride	**0.40U**	ug/m3	2.8	0.40	1.75		03/12/17 00:14	107-05-1	
Benzene	**0.52J**	ug/m3	0.57	0.21	1.75		03/12/17 00:14	71-43-2	
Bromodichloromethane	**0.34U**	ug/m3	2.4	0.34	1.75		03/12/17 00:14	75-27-4	
Bromoform	**1.6U**	ug/m3	9.2	1.6	1.75		03/12/17 00:14	75-25-2	
Bromomethane	**0.54U**	ug/m3	1.4	0.54	1.75		03/12/17 00:14	74-83-9	
1,3-Butadiene	**0.31U**	ug/m3	0.79	0.31	1.75		03/12/17 00:14	106-99-0	
2-Butanone (MEK)	**3.0J**	ug/m3	5.2	0.40	1.75		03/12/17 00:14	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.1	0.18	1.75		03/12/17 00:14	75-15-0	
Carbon tetrachloride	**0.34U**	ug/m3	1.1	0.34	1.75		03/12/17 00:14	56-23-5	
Chlorobenzene	**0.23U**	ug/m3	1.6	0.23	1.75		03/12/17 00:14	108-90-7	
Chlorodifluoromethane	**37.0**	ug/m3	1.3	0.48	1.75		03/12/17 00:14	75-45-6	
Chloroethane	**0.34U**	ug/m3	0.94	0.34	1.75		03/12/17 00:14	75-00-3	
Chloroform	**0.33U**	ug/m3	0.87	0.33	1.75		03/12/17 00:14	67-66-3	
Chloromethane	**0.95**	ug/m3	0.74	0.19	1.75		03/12/17 00:14	74-87-3	
Chloropentafluoroethane	**5.6U**	ug/m3	5.6	5.6	1.75		03/12/17 00:14	76-15-3	CL
Cyclohexane	**0.69J**	ug/m3	1.2	0.55	1.75		03/12/17 00:14	110-82-7	
1,2-Dibromo-3-chloropropane	**8.6U**	ug/m3	8.6	8.6	1.75		03/12/17 00:14	96-12-8	
Dibromochloromethane	**1.5U**	ug/m3	3.0	1.5	1.75		03/12/17 00:14	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.7	1.4	1.75		03/12/17 00:14	106-93-4	
1,2-Dichlorobenzene	**0.90U**	ug/m3	2.1	0.90	1.75		03/12/17 00:14	95-50-1	
1,3-Dichlorobenzene	**0.93U**	ug/m3	2.1	0.93	1.75		03/12/17 00:14	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: LIJ-VP-7_50_20170226DUP **Lab ID: 10380372020** Collected: 02/26/17 13:36 Received: 02/28/17 09:45 Matrix: Air

MLA 5/5/17

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**0.87U**	ug/m3	2.1	0.87	1.75		03/12/17 00:14	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	0.84	1.75		03/12/17 00:14	75-71-8	
1,1-Dichloroethane	**0.27U**	ug/m3	1.4	0.27	1.75		03/12/17 00:14	75-34-3	
1,2-Dichloroethane	**0.36U**	ug/m3	0.72	0.36	1.75		03/12/17 00:14	107-06-2	
1,1-Dichloroethene	**0.42U**	ug/m3	1.4	0.42	1.75		03/12/17 00:14	75-35-4	
cis-1,2-Dichloroethene	**0.43U**	ug/m3	1.4	0.43	1.75		03/12/17 00:14	156-59-2	
trans-1,2-Dichloroethene	**0.67U**	ug/m3	1.4	0.67	1.75		03/12/17 00:14	156-60-5	
1,2-Dichloropropane	**0.47U**	ug/m3	1.6	0.47	1.75		03/12/17 00:14	78-87-5	
cis-1,3-Dichloropropene	**0.65U**	ug/m3	1.6	0.65	1.75		03/12/17 00:14	10061-01-5	
trans-1,3-Dichloropropene	**0.46U**	ug/m3	1.6	0.46	1.75		03/12/17 00:14	10061-02-6	
Dichlorotetrafluoroethane	**0.54U**	ug/m3	2.5	0.54	1.75		03/12/17 00:14	76-14-2	
Freon 123	**5.6U**	ug/m3	5.6	5.6	1.75		03/12/17 00:14	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.62U**	ug/m3	6.4	0.62	1.75		03/12/17 00:14	123-91-1	
Ethylbenzene	**3.3**	ug/m3	1.5	0.74	1.75		03/12/17 00:14	100-41-4	
4-Ethyltoluene	**0.33U**	ug/m3	1.8	0.33	1.75		03/12/17 00:14	622-96-8	
Hexachloro-1,3-butadiene	**1.1U**	ug/m3	3.8	1.1	1.75		03/12/17 00:14	87-68-3	
n-Hexane	**1.4**	ug/m3	1.3	0.62	1.75		03/12/17 00:14	110-54-3	
2-Hexanone	**0.72U**	ug/m3	7.3	0.72	1.75		03/12/17 00:14	591-78-6	
Isopropylbenzene (Cumene)	**0.24U**	ug/m3	4.4	0.24	1.75		03/12/17 00:14	98-82-8	
Methyl acetate	**2.7U**	ug/m3	2.7	2.7	1.75		03/12/17 00:14	79-20-9	
Methylcyclohexane	**0.42U**	ug/m3	1.4	0.42	1.75		03/12/17 00:14	108-87-2	
Methylene Chloride	**11.9**	ug/m3	6.2	0.95	1.75		03/12/17 00:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.38U**	ug/m3	7.3	0.38	1.75		03/12/17 00:14	108-10-1	
Methyl-tert-butyl ether	**0.53U**	ug/m3	6.4	0.53	1.75		03/12/17 00:14	1634-04-4	
2-Propanol	**31.5**	ug/m3	4.4	0.42	1.75		03/12/17 00:14	67-63-0	
Styrene	**0.34U**	ug/m3	1.5	0.34	1.75		03/12/17 00:14	100-42-5	
1,1,2,2-Tetrachloroethane	**0.58U**	ug/m3	1.2	0.58	1.75		03/12/17 00:14	79-34-5	
Tetrachloroethene	**0.49U**	ug/m3	1.2	0.49	1.75		03/12/17 14:10	127-18-4	
Toluene	**2.7**	ug/m3	1.3	0.27	1.75		03/12/17 00:14	108-88-3	
1,2,4-Trichlorobenzene	**1.6U**	ug/m3	6.6	1.6	1.75		03/12/17 00:14	120-82-1	
1,1,1-Trichloroethane	**0.43U**	ug/m3	1.9	0.43	1.75		03/12/17 00:14	71-55-6	
1,1,2-Trichloroethane	**0.43U**	ug/m3	0.96	0.43	1.75		03/12/17 00:14	79-00-5	
Trichloroethene	**0.48U**	ug/m3	0.96	0.48	1.75		03/12/17 14:10	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.0	0.23	1.75		03/12/17 00:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.53U**	ug/m3	2.8	0.53	1.75		03/12/17 00:14	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	1.7	0.22	1.75		03/12/17 00:14	95-63-6	
1,3,5-Trimethylbenzene	**0.32U**	ug/m3	1.7	0.32	1.75		03/12/17 00:14	108-67-8	
Vinyl chloride	**0.34U**	ug/m3	0.46	0.34	1.75		03/12/17 00:14	75-01-4	
m&p-Xylene	**11.5**	ug/m3	3.1	1.4	1.75		03/12/17 00:14	179601-23-1	
o-Xylene	**3.1**	ug/m3	1.5	0.61	1.75		03/12/17 00:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_73.5_20170226DUP **Lab ID: 10380372021** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**17.1**	ug/m3	11.0	1.5	1.83		03/12/17 00:43	67-64-1	
Allyl chloride	**0.42U**	ug/m3	2.9	0.42	1.83		03/12/17 00:43	107-05-1	
Benzene	**0.53J**	ug/m3	0.59	0.22	1.83		03/12/17 00:43	71-43-2	
Bromodichloromethane	**0.36U**	ug/m3	2.5	0.36	1.83		03/12/17 00:43	75-27-4	
Bromoform	**1.6U**	ug/m3	9.6	1.6	1.83		03/12/17 00:43	75-25-2	
Bromomethane	**0.57U**	ug/m3	1.4	0.57	1.83		03/12/17 00:43	74-83-9	
1,3-Butadiene	**0.32U**	ug/m3	0.82	0.32	1.83		03/12/17 00:43	106-99-0	
2-Butanone (MEK)	**1.6J**	ug/m3	5.5	0.42	1.83		03/12/17 00:43	78-93-3	
Carbon disulfide	**0.18U**	ug/m3	1.2	0.18	1.83		03/12/17 00:43	75-15-0	
Carbon tetrachloride	**0.35U**	ug/m3	1.2	0.35	1.83		03/12/17 00:43	56-23-5	
Chlorobenzene	**0.25U**	ug/m3	1.7	0.25	1.83		03/12/17 00:43	108-90-7	
Chlorodifluoromethane	**23.0**	ug/m3	1.3	0.51	1.83		03/12/17 00:43	75-45-6	
Chloroethane	**0.36U**	ug/m3	0.99	0.36	1.83		03/12/17 00:43	75-00-3	
Chloroform	**0.35U**	ug/m3	0.91	0.35	1.83		03/12/17 00:43	67-66-3	
Chloromethane	**1.0**	ug/m3	0.77	0.20	1.83		03/12/17 00:43	74-87-3	
Chloropentafluoroethane	**5.9U**	ug/m3	5.9	5.9	1.83		03/12/17 00:43	76-15-3	CL
Cyclohexane	**0.58U**	ug/m3	1.3	0.58	1.83		03/12/17 00:43	110-82-7	
1,2-Dibromo-3-chloropropane	**9.0U**	ug/m3	9.0	9.0	1.83		03/12/17 00:43	96-12-8	
Dibromochloromethane	**1.6U**	ug/m3	3.2	1.6	1.83		03/12/17 00:43	124-48-1	
1,2-Dibromoethane (EDB)	**1.4U**	ug/m3	2.9	1.4	1.83		03/12/17 00:43	106-93-4	
1,2-Dichlorobenzene	**0.94U**	ug/m3	2.2	0.94	1.83		03/12/17 00:43	95-50-1	
1,3-Dichlorobenzene	**0.97U**	ug/m3	2.2	0.97	1.83		03/12/17 00:43	541-73-1	
1,4-Dichlorobenzene	**0.91U**	ug/m3	2.2	0.91	1.83		03/12/17 00:43	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	0.88	1.83		03/12/17 00:43	75-71-8	
1,1-Dichloroethane	**0.29U**	ug/m3	1.5	0.29	1.83		03/12/17 00:43	75-34-3	
1,2-Dichloroethane	**0.38U**	ug/m3	0.75	0.38	1.83		03/12/17 00:43	107-06-2	
1,1-Dichloroethene	**0.44U**	ug/m3	1.5	0.44	1.83		03/12/17 00:43	75-35-4	
cis-1,2-Dichloroethene	**0.45U**	ug/m3	1.5	0.45	1.83		03/12/17 00:43	156-59-2	
trans-1,2-Dichloroethene	**0.70U**	ug/m3	1.5	0.70	1.83		03/12/17 00:43	156-60-5	
1,2-Dichloropropane	**0.49U**	ug/m3	1.7	0.49	1.83		03/12/17 00:43	78-87-5	
cis-1,3-Dichloropropene	**0.68U**	ug/m3	1.7	0.68	1.83		03/12/17 00:43	10061-01-5	
trans-1,3-Dichloropropene	**0.48U**	ug/m3	1.7	0.48	1.83		03/12/17 00:43	10061-02-6	
Dichlorotetrafluoroethane	**0.57U**	ug/m3	2.6	0.57	1.83		03/12/17 00:43	76-14-2	
Freon 123	**5.8U**	ug/m3	5.8	5.8	1.83		03/12/17 00:43	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.64U**	ug/m3	6.7	0.64	1.83		03/12/17 00:43	123-91-1	
Ethylbenzene	**2.4**	ug/m3	1.6	0.78	1.83		03/12/17 00:43	100-41-4	
4-Ethyltoluene	**0.34U**	ug/m3	1.8	0.34	1.83		03/12/17 00:43	622-96-8	
Hexachloro-1,3-butadiene	**1.2U**	ug/m3	4.0	1.2	1.83		03/12/17 00:43	87-68-3	
n-Hexane	**2.0**	ug/m3	1.3	0.65	1.83		03/12/17 00:43	110-54-3	
2-Hexanone	**0.75U**	ug/m3	7.6	0.75	1.83		03/12/17 00:43	591-78-6	
Isopropylbenzene (Cumene)	**0.25U**	ug/m3	4.6	0.25	1.83		03/12/17 00:43	98-82-8	
Methyl acetate	**2.8U**	ug/m3	2.8	2.8	1.83		03/12/17 00:43	79-20-9	
Methylcyclohexane	**0.44U**	ug/m3	1.5	0.44	1.83		03/12/17 00:43	108-87-2	
Methylene Chloride	**9.5**	ug/m3	6.5	0.99	1.83		03/12/17 00:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.40U**	ug/m3	7.6	0.40	1.83		03/12/17 00:43	108-10-1	
Methyl-tert-butyl ether	**0.55U**	ug/m3	6.7	0.55	1.83		03/12/17 00:43	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Sample: VP-102_73.5_20170226DUP **Lab ID: 10380372021** Collected: 02/26/17 14:00 Received: 02/28/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**30.4**	ug/m3	4.6	0.44	1.83		03/12/17 00:43	67-63-0	
Styrene	**0.35U**	ug/m3	1.6	0.35	1.83		03/12/17 00:43	100-42-5	
1,1,2,2-Tetrachloroethane	**0.60U**	ug/m3	1.3	0.60	1.83		03/12/17 00:43	79-34-5	
Tetrachloroethene	**1.2J**	ug/m3	1.3	0.51	1.83		03/12/17 00:43	127-18-4	
Toluene	**2.7**	ug/m3	1.4	0.28	1.83		03/12/17 00:43	108-88-3	
1,2,4-Trichlorobenzene	**1.7U**	ug/m3	6.9	1.7	1.83		03/12/17 00:43	120-82-1	
1,1,1-Trichloroethane	**0.45U**	ug/m3	2.0	0.45	1.83		03/12/17 00:43	71-55-6	
1,1,2-Trichloroethane	**0.45U**	ug/m3	1.0	0.45	1.83		03/12/17 00:43	79-00-5	
Trichloroethene	**0.82J**	ug/m3	1.0	0.51	1.83		03/12/17 00:43	79-01-6	
Trichlorofluoromethane	**1.6J**	ug/m3	2.1	0.24	1.83		03/12/17 00:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.55U**	ug/m3	2.9	0.55	1.83		03/12/17 00:43	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	1.8	0.23	1.83		03/12/17 00:43	95-63-6	
1,3,5-Trimethylbenzene	**0.77J**	ug/m3	1.8	0.33	1.83		03/12/17 00:43	108-67-8	
Vinyl chloride	**0.36U**	ug/m3	0.48	0.36	1.83		03/12/17 00:43	75-01-4	
m&p-Xylene	**7.6**	ug/m3	3.2	1.4	1.83		03/12/17 00:43	179601-23-1	
o-Xylene	**2.3**	ug/m3	1.6	0.64	1.83		03/12/17 00:43	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Attachment 3

Support Documentation

FIELD DUPLICATE PRECISION
LMC - GREAT NECK
SDG 10380372

SAMPLE	PARAMETER	RESULT (µg/m^3)	DUPLICATE SAMPLE	PARAMETER	RESULT (µg/m^3)	RPD (%)	DIFFERENCE	RL (µg/m^3)
LIJ-VP-7_5_20170226	1,2,4-TRIMETHYLBENZENE	4.4	LIJ-VP-7_5_20170226DUP	1,2,4-TRIMETHYLBENZENE	1.6 J	NA	2.8	1.7
	1,3,5-TRIMETHYLBENZENE	2		1,3,5-TRIMETHYLBENZENE	1.7 U	NA	0.3	1.7
	1-ETHYL-4-METHYL BENZENE	1.5 J		1-ETHYL-4-METHYL BENZENE	1.8 U	NA	0.3	1.7
	2-BUTANONE	5 U		2-BUTANONE	3 J	NA	2	5
	ACETONE	60.4		ACETONE	19.8	101.25	40.6	10.1
	BENZENE	2.4		BENZENE	0.52 J	NA	1.88	0.55
	CHLORODIFLUOROMETHANE	24.9		CHLORODIFLUOROMETHANE	37	39.10	12.1	1.2
	CHLOROMETHANE	0.71 U		CHLOROMETHANE	0.95	NA	0.24	0.71
	CYCLOHEXANE	2.1		CYCLOHEXANE	0.69 J	NA	1.41	1.2
	DICHLORODIFLUOROMETHANE	5.1		DICHLORODIFLUOROMETHANE	3	51.85	2.1	1.7
	ETHYLBENZENE	3.2		ETHYLBENZENE	3.3	3.08	0.1	1.5
	HEXANE	40.5		HEXANE	1.4	186.63	39.1	1.2
	ISOPROPANOL	22.2		ISOPROPANOL	31.5	34.64	9.3	4.2
	M+P-XYLENES	12.6		M+P-XYLENES	11.5	9.13	1.1	3
	METHYL CYCLOHEXANE	1.1 J		METHYL CYCLOHEXANE	1.4 U	NA	0.3	1.4
	METHYLENE CHLORIDE	176		METHYLENE CHLORIDE	11.9	174.67	164.1	6.2
	O-XYLENE	3.9		O-XYLENE	3.1	22.86	0.8	1.5
	TOLUENE	10.4		TOLUENE	2.7	117.56	7.7	1.3
	TRICHLOROFLUOROMETHANE	2.8		TRICHLOROFLUOROMETHANE	1.7 J	NA	1.1	1.9

J - RESULT BELOW THE RL
U - NON-DETECT
QC: RPD > 50%
or DIFFERENCE > 2X RL IF ONE OR BOTH RESULTS < 2X RL

FIELD DUPLICATE PRECISION
LMC - GREAT NECK
SDG 10380372

SAMPLE	PARAMETER	RESULT (µg/m^3)	DUPLICATE SAMPLE	PARAMETER	RESULT (µg/m^3)	RPD (%)	DIFFERENCE	RL (µg/m^3)
VP-102_73.5_20170226	1,2,4-TRIMETHYLBENZENE	0.95 J	**VP-102_73.5_20170226DUP**	1,2,4-TRIMETHYLBENZENE	1.6 J	NA	0.65	1.7
	1,3,5-TRIMETHYLBENZENE	0.41 J		1,3,5-TRIMETHYLBENZENE	0.77 J	NA	0.36	1.7
	2-BUTANONE	2.5 J		2-BUTANONE	1.6 J	NA	0.9	5.2
	2-HEXANONE	0.93 J		2-HEXANONE	7.6 U	NA	6.67	7.3
	ACETONE	22		ACETONE	17.1	25.06	4.9	10.6
	BENZENE	0.5 J		BENZENE	0.53 J	NA	0.03	0.57
	CHLORODIFLUOROMETHANE	21.9		CHLORODIFLUOROMETHANE	23	4.90	1.1	1.3
	CHLOROMETHANE	0.94		CHLOROMETHANE	1	6.19	0.06	0.74
	DICHLORODIFLUOROMETHANE	3		DICHLORODIFLUOROMETHANE	3	0.00	0	1.8
	ETHYLBENZENE	2		ETHYLBENZENE	2.4	18.18	0.4	1.5
	HEXANE	1.1 J		HEXANE	2	NA	0.9	1.3
	ISOPROPANOL	29.5		ISOPROPANOL	30.4	3.01	0.9	4.4
	ISOPROPYLBENZENE	0.26 J		ISOPROPYLBENZENE	4.6 U	NA	4.34	4.4
	M+P-XYLENES	6.5		M+P-XYLENES	7.6	15.60	1.1	3.1
	METHYLENE CHLORIDE	4.4 J		METHYLENE CHLORIDE	9.5	NA	5.1	6.2
	O-XYLENE	2.1		O-XYLENE	2.3	9.09	0.2	1.5
	TETRACHLOROETHENE	0.56 J		TETRACHLOROETHENE	1.2 J	NA	0.64	1.5
	TOLUENE	1.7		TOLUENE	2.7	45.45	1	1.3
	TRICHLOROETHENE	0.96 U		TRICHLOROETHENE	0.82 J	NA	0.14	0.96
	TRICHLOROFLUOROMETHANE	1.4 J		TRICHLOROFLUOROMETHANE	1.6 J	NA	0.2	2

J - RESULT BELOW THE RL
U - NON-DETECT
QC: RPD > 50%
or DIFFERENCE > 2X RL IF ONE OR BOTH RESULTS < 2X RL

10380392

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26388

Page: 1 of 2

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE, NJ 08889
Email To: DALLAS.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELLOTT
Copy To:
Purchase Order No.:
Project Name: LML GREAT NECK
Project Number: 117-0507044

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☑ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

*Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-102_5.5_20170226	6VL		2/26/17	1010	2/26/17	1347	-30	-8	0196	0033								X		001
2	VP-102_19.5_20170226				1010		1344	-28	-8	0682	0426								X		002
3	VP-102_51.5_20170226				1010		1345	-29	-8	0931	0429								X		003
4	VP-102_57.5_20170226				1010		1350	-30	-9	1046	0598								X		004
5	VP-102_61.5_20170226				1010		1344	-29	-8	0429	0428								X		005
6	VP-102_73.5_20170226				1010		1400	-29	-7.5	2703	0597								X		006
7	VP-103_5_20170226				0821		1209	-30	-8	0620	0129								X		007
8	VP-103_10_20170226				0821		1210	-30	-8	1031	0049								X		008
9	VP-103_20_20170226				0821		1154	-29	-8	1258	0600								X		009
10	VP-103_30_20170226				0821		1220	-30	-8	1267	0530								X		010
11	VP-103_70_20170226				0822		1209	-30	-8	1069	0044								X		011
12	VP-103_50_20170226	↓		↓	0822	↓	1155	-28	-8	2171	0376								X		012

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	2/27/17	1030		2/27/17	1030
	2/27/17	1530		22817	0945

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible] Dan Blackwood A. Kelly
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 2/26/17

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

10380372

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26390

Page: 2 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: TETRA TECH	Report To: DAVID MELLOTT	Attention:
Address: 285 RT 22E, SUITE 104E WHITEHOUSE, NJ 08889	Copy To:	Company Name:
Email To: DAVID.MELLOTT@TETRATECH.COM	Purchase Order No.:	Address:
Phone: Fax:	Project Name: LIMC GREAT NECK	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: 117-05076414	Pace Project Manager/Sales Rep.
		Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: _____

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level: II.___ III.___ IV.___ Other_____

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: TO-15	Pace Lab ID
1	VP-103_01.5_20170226	6LC		2/26/17	0822	2/26/17	1226	-30	-8	570	0040	X	013
2	VP-103_74.5_20170226				0822		1208	-30	-8	1750	0082	X	014
3	LIS-VP-7_5_20170226				0956		1336	-30	-9	847	0041	X	015
4	LIS-VP-7_10_20170226				0957		1336	-30	-8	1515	0103	X	016
5	LIS-VP-7_20_20170226				0955		1400	-30	-9	1288	0264	X	017
6	LIS-VP-7_40_20170226				0958		1337	-30	-8	859	0037	X	018
7	LIS-VP-7_50_20170226				0956		1335	-30	-8	1051	0145	X	019
8	LIS-VP-7_5_20170226 DUP				0956		1336	-28.5	-7	1261	0036	X	020
9	VP-102_73.5_20170226 DUP	↓		↓	1010	↓	1400	-30	-9.5	1740	0051	X	021
10													022
11													
12													

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	2/27/17	1030		2/27/17	1030
	2/27/17	1530	Pace	2/28/17	0945

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Bok, D. Brancaccio, A. Kelly

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/26/17

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: TT - NJ

Project #: WO# : 10380372

10380372

Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 7857 4106 2418 -master

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** 0 **Thermom. Used:** ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 2/28/17

Type of ice Received ☐ Blue ☐ Wet ☒ None

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
UNUSED	2816	0025			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Nathan Roberg **Date:** 2/28/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 14, 2017

General Information:
21 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: 463555

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 2534384)
  - 1,2,4-Trichlorobenzene

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 463555

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2534384)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dibromo-3-chloropropane
  - 1,4-Dioxane (p-Dioxane)
  - Chloropentafluoroethane
- VP-102_19.5_20170226 (Lab ID: 10380372002)
  - Chloropentafluoroethane

QC Batch: 463593

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2534981)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dibromo-3-chloropropane
  - Allyl chloride
  - Carbon tetrachloride
  - Dibromochloromethane
  - Hexachloro-1,3-butadiene
- LIJ-VP-7_40_20170226 (Lab ID: 10380372018)
  - Carbon tetrachloride
- LIJ-VP-7_50_20170226 (Lab ID: 10380372019)
  - Carbon tetrachloride
- VP-103_30_20170226 (Lab ID: 10380372010)
  - Carbon tetrachloride
- VP-103_40_20170226 (Lab ID: 10380372011)
  - Carbon tetrachloride

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 14, 2017

QC Batch: 463593

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- VP-103_50_20170226 (Lab ID: 10380372012)
  - Carbon tetrachloride
- VP-103_61.5_20170226 (Lab ID: 10380372013)
  - Carbon tetrachloride
- VP-103_74.5_20170226 (Lab ID: 10380372014)
  - Carbon tetrachloride

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 2534980)
  - Chloropentafluoroethane
- LCS (Lab ID: 2534981)
  - Chloropentafluoroethane
- LIJ-VP-7_10_20170226 (Lab ID: 10380372016)
  - Chloropentafluoroethane
- LIJ-VP-7_20_20170226 (Lab ID: 10380372017)
  - Chloropentafluoroethane
- LIJ-VP-7_40_20170226 (Lab ID: 10380372018)
  - Chloropentafluoroethane
- LIJ-VP-7_50_20170226 (Lab ID: 10380372019)
  - Chloropentafluoroethane
- LIJ-VP-7_50_20170226DUP (Lab ID: 10380372020)
  - Chloropentafluoroethane
- LIJ-VP-7_5_20170226 (Lab ID: 10380372015)
  - Chloropentafluoroethane
- VP-102_73.5_20170226DUP (Lab ID: 10380372021)
  - Chloropentafluoroethane
- VP-103_20_20170226 (Lab ID: 10380372009)
  - Chloropentafluoroethane
- VP-103_30_20170226 (Lab ID: 10380372010)
  - Chloropentafluoroethane
- VP-103_40_20170226 (Lab ID: 10380372011)
  - Chloropentafluoroethane
- VP-103_50_20170226 (Lab ID: 10380372012)
  - Chloropentafluoroethane
- VP-103_61.5_20170226 (Lab ID: 10380372013)
  - Chloropentafluoroethane
- VP-103_74.5_20170226 (Lab ID: 10380372014)
  - Chloropentafluoroethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 14, 2017

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 463555

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- LCS (Lab ID: 2534384)
  - 1,2,4-Trichlorobenzene
  - 2-Propanol

QC Batch: 463593

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- LCS (Lab ID: 2534981)
  - 1,2,4-Trichlorobenzene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 463555

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
- LCS (Lab ID: 2534384)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

QC Batch: 463593

1M: The internal standard recovery associated with this result exceeds the lower control limit. .
- LIJ-VP-7_50_20170226 (Lab ID: 10380372019)
  - Tetrachloroethene

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
- LCS (Lab ID: 2534981)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.
- LIJ-VP-7_20_20170226 (Lab ID: 10380372017)
  - Trichloroethene
- LIJ-VP-7_40_20170226 (Lab ID: 10380372018)
  - cis-1,2-Dichloroethene

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 14, 2017

Analyte Comments:

QC Batch: 463593

A3: The sample was analyzed by serial dilution.
- LIJ-VP-7_50_20170226 (Lab ID: 10380372019)
  - cis-1,2-Dichloroethene

C0: Result confirmed by second analysis.
- LIJ-VP-7_50_20170226 (Lab ID: 10380372019)
  - Tetrachloroethene

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1M	The internal standard recovery associated with this result exceeds the lower control limit. .
2M	This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
A3	The sample was analyzed by serial dilution.
C0	Result confirmed by second analysis.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10380372001	**VP-102_8.5_20170226**	Air	02/26/17 13:47	02/28/17 09:45
10380372002	**VP-102_19.5_20170226**	Air	02/26/17 13:44	02/28/17 09:45
10380372003	**VP-102_51.5_20170226**	Air	02/26/17 13:45	02/28/17 09:45
10380372004	**VP-102_57.5_20170226**	Air	02/26/17 13:50	02/28/17 09:45
10380372005	**VP-102_61.5_20170226**	Air	02/26/17 13:44	02/28/17 09:45
10380372006	**VP-102_73.5_20170226**	Air	02/26/17 14:00	02/28/17 09:45
10380372007	**VP-103_5_20170226**	Air	02/26/17 12:09	02/28/17 09:45
10380372008	**VP-103_10_20170226**	Air	02/26/17 12:10	02/28/17 09:45
10380372009	**VP-103_20_20170226**	Air	02/26/17 11:54	02/28/17 09:45
10380372010	**VP-103_30_20170226**	Air	02/26/17 12:20	02/28/17 09:45
10380372011	**VP-103_40_20170226**	Air	02/26/17 12:09	02/28/17 09:45
10380372012	**VP-103_50_20170226**	Air	02/26/17 11:55	02/28/17 09:45
10380372013	**VP-103_61.5_20170226**	Air	02/26/17 12:26	02/28/17 09:45
10380372014	**VP-103_74.5_20170226**	Air	02/26/17 12:08	02/28/17 09:45
10380372015	**LIJ-VP-7_5_20170226**	Air	02/26/17 13:36	02/28/17 09:45
10380372016	**LIJ-VP-7_10_20170226**	Air	02/26/17 13:36	02/28/17 09:45
10380372017	**LIJ-VP-7_20_20170226**	Air	02/26/17 14:00	02/28/17 09:45
10380372018	**LIJ-VP-7_40_20170226**	Air	02/26/17 13:37	02/28/17 09:45
10380372019	**LIJ-VP-7_50_20170226**	Air	02/26/17 13:35	02/28/17 09:45
10380372020	**LIJ-VP-7_50_20170226DUP**	Air	02/26/17 13:36	02/28/17 09:45
10380372021	**VP-102_73.5_20170226DUP**	Air	02/26/17 14:00	02/28/17 09:45
10380372022	**Unused Can#2816**	Air		02/28/17 09:45

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/10/2017

Lab File ID (Standard): 06902.D Time Analyzed: 14:46

Instrument ID: 10AIRD Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
02	24 HOUR STANDARD	3611878	4.248	3035016	7.033
02	UPPER LIMIT	7223756	4.748	6070032	7.533
02	LOWER LIMIT	1805939	3.748	1517508	6.533
02	EPA SAMPLE NO.				
02	LCS for HBN 463555 [AIR/27876]	3611878	4.248	3035016	7.033
02	BLANK for HBN 463555 [AIR/2787	3558981	4.242	2875542	7.027

NO SAMPLES ASSOCIATED

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/11/2017

Lab File ID (Standard): 07002.D Time Analyzed: 10:37

Instrument ID: 10AIRD Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
15	24 HOUR STANDARD	3596167	4.267	2947178	7.043
15	UPPER LIMIT	7192334	4.767	5894356	7.543
15	LOWER LIMIT	1798084	3.767	1473589	6.543
15	EPA SAMPLE NO.				
15	BLANK for HBN 463593 [AIR/2787	3411782	4.242	2674794	7.027
15	VP-103_30_20170226	3146304	4.245	2366358	7.027
15	VP-103_20_20170226	3236191	4.242	2413807	7.027
15	VP-103_40_20170226	3190258	4.245	2420048	7.030
15	VP-103_50_20170226	3207634	4.245	2391849	7.030
15	VP-103_61.5_20170226	2991050	4.245	2130890	7.030
15	VP-103_74.5_20170226	2977542	4.242	2109062	7.027
15	LIJ-VP-7_5_20170226	2872336	4.242	1983703	7.027
15	LIJ-VP-7_10_20170226	3151082	4.245	2334805	7.030
15	LIJ-VP-7_20_20170226	3279655	4.248	2419694	7.034
15	LIJ-VP-7_40_20170226	3402989	4.264	2297342	7.043
15	LIJ-VP-7_50_20170226	3249733	4.248	2369908	7.033
15	LIJ-VP-7_50_20170226DUP	3035456	4.239	2225424	7.027
15	VP-102_73.5_20170226DUP	3061704	4.238	2218298	7.027
15	VP-102_8.5_20170226	2911380	4.242	2114819	7.027
	UPPER LIMIT	5034634		4126049	
	LOWER LIMIT	2157700		1768307	

QC = +/- 40% 24 HOUR STANDARD

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/12/2017

Lab File ID (Standard): 07102.D Time Analyzed: 10:04

Instrument ID: 10AIRD Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
09	24 HOUR STANDARD	3220013	4.251	2478835	7.033
09	UPPER LIMIT	6440026	4.751	4957670	7.533
09	LOWER LIMIT	1610006	3.751	1239418	6.533
09	EPA SAMPLE NO.				
09	LIJ-VP-7_50_20170226DUP	3039952	4.238	2237836	7.027
09	VP-103_50_20170226	2991512	4.238	2177985	7.027
09	VP-103_40_20170226	2933653	4.238	2128228	7.027
09	VP-103_30_20170226	3082569	4.239	2313635	7.027
09	LIJ-VP-7_5_20170226	2829098	4.239	1912229	7.024
09	VP-103_74.5_20170226	2771287	4.235	1888417	7.024
09	LIJ-VP-7_20_20170226	3128315	4.238	2374143	7.027
09	LIJ-VP-7_50_20170226	2769867	4.239	1909533	7.027
09	LIJ-VP-7_40_20170226	3035779	4.238	2236622	7.027
	UPPER LIMIT	4508018		3470369	
	LOWER LIMIT	1932008		1487301	

QC = +/- 40% OF 24 HOUR STANDARD

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

FORM VIII VOA

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 463555 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 06904L.D Lab Sample ID: 2534383
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 16:11
Instrument ID: 10AIRD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-102_8.5_20170226	10380372001	06905.D	16:54
02	VP-102_19.5_20170226	10380372002	06906.D	17:22
03	VP-102_51.5_20170226	10380372003	06908.D	18:21
04	VP-102_57.5_20170226	10380372004	06909.D	18:48
05	VP-102_61.5_20170226	10380372005	06911.D	19:44
06	VP-102_73.5_20170226	10380372006	06912.D	20:12
07	VP-103_5_20170226	10380372007	06913.D	20:42
08	VP-103_10_20170226	10380372008	06914.D	21:10

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

QC Batch: 463555 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10380372001, 10380372002, 10380372003, 10380372004, 10380372005, 10380372006, 10380372007, 10380372008

METHOD BLANK: 2534383 Matrix: Air
Associated Lab Samples: 10380372001, 10380372002, 10380372003, 10380372004, 10380372005, 10380372006, 10380372007, 10380372008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.25U	1.1	0.25	03/10/17 16:11	
1,1,2,2-Tetrachloroethane	ug/m3	0.33U	0.70	0.33	03/10/17 16:11	
1,1,2-Trichloroethane	ug/m3	0.25U	0.55	0.25	03/10/17 16:11	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.30U	1.6	0.30	03/10/17 16:11	
1,1-Dichloroethane	ug/m3	0.16U	0.82	0.16	03/10/17 16:11	
1,1-Dichloroethene	ug/m3	0.24U	0.81	0.24	03/10/17 16:11	
1,2,4-Trichlorobenzene	ug/m3	0.91U	3.8	0.91	03/10/17 16:11	
1,2,4-Trimethylbenzene	ug/m3	0.12U	1.0	0.12	03/10/17 16:11	
1,2-Dibromo-3-chloropropane	ug/m3	4.9U	4.9	4.9	03/10/17 16:11	
1,2-Dibromoethane (EDB)	ug/m3	0.77U	1.6	0.77	03/10/17 16:11	
1,2-Dichlorobenzene	ug/m3	0.51U	1.2	0.51	03/10/17 16:11	
1,2-Dichloroethane	ug/m3	0.20U	0.41	0.20	03/10/17 16:11	
1,2-Dichloropropane	ug/m3	0.27U	0.94	0.27	03/10/17 16:11	
1,3,5-Trimethylbenzene	ug/m3	0.18U	1.0	0.18	03/10/17 16:11	
1,3-Butadiene	ug/m3	0.18U	0.45	0.18	03/10/17 16:11	
1,3-Dichlorobenzene	ug/m3	0.53U	1.2	0.53	03/10/17 16:11	
1,4-Dichlorobenzene	ug/m3	0.50U	1.2	0.50	03/10/17 16:11	
1,4-Dioxane (p-Dioxane)	ug/m3	0.35U	3.7	0.35	03/10/17 16:11	
2-Butanone (MEK)	ug/m3	0.23U	3.0	0.23	03/10/17 16:11	
2-Hexanone	ug/m3	0.41U	4.2	0.41	03/10/17 16:11	
2-Propanol	ug/m3	0.24U	2.5	0.24	03/10/17 16:11	
4-Ethyltoluene	ug/m3	0.19U	1.0	0.19	03/10/17 16:11	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.22U	4.2	0.22	03/10/17 16:11	
Acetone	ug/m3	0.83U	6.0	0.83	03/10/17 16:11	
Allyl chloride	ug/m3	0.23U	1.6	0.23	03/10/17 16:11	
Benzene	ug/m3	0.12U	0.32	0.12	03/10/17 16:11	
Bromodichloromethane	ug/m3	0.19U	1.4	0.19	03/10/17 16:11	
Bromoform	ug/m3	0.90U	5.3	0.90	03/10/17 16:11	
Bromomethane	ug/m3	0.31U	0.79	0.31	03/10/17 16:11	
Carbon disulfide	ug/m3	0.10U	0.63	0.10	03/10/17 16:11	
Carbon tetrachloride	ug/m3	0.19U	0.64	0.19	03/10/17 16:11	
Chlorobenzene	ug/m3	0.13U	0.94	0.13	03/10/17 16:11	
Chlorodifluoromethane	ug/m3	0.28U	0.72	0.28	03/10/17 16:11	
Chloroethane	ug/m3	0.19U	0.54	0.19	03/10/17 16:11	
Chloroform	ug/m3	0.19U	0.50	0.19	03/10/17 16:11	
Chloromethane	ug/m3	0.11U	0.42	0.11	03/10/17 16:11	
Chloropentafluoroethane	ug/m3	3.2U	3.2	3.2	03/10/17 16:11	
cis-1,2-Dichloroethene	ug/m3	0.25U	0.81	0.25	03/10/17 16:11	
cis-1,3-Dichloropropene	ug/m3	0.37U	0.92	0.37	03/10/17 16:11	
Cyclohexane	ug/m3	0.32U	0.70	0.32	03/10/17 16:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

METHOD BLANK: 2534383 Matrix: Air

Associated Lab Samples: 10380372001, 10380372002, 10380372003, 10380372004, 10380372005, 10380372006, 10380372007, 10380372008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/m3	0.86U	1.7	0.86	03/10/17 16:11	
Dichlorodifluoromethane	ug/m3	0.48U	1.0	0.48	03/10/17 16:11	
Dichlorotetrafluoroethane	ug/m3	0.31U	1.4	0.31	03/10/17 16:11	
Ethylbenzene	ug/m3	0.42U	0.88	0.42	03/10/17 16:11	
Freon 123	ug/m3	3.2U	3.2	3.2	03/10/17 16:11	
Hexachloro-1,3-butadiene	ug/m3	0.65U	2.2	0.65	03/10/17 16:11	
Isopropylbenzene (Cumene)	ug/m3	0.14U	2.5	0.14	03/10/17 16:11	
m&p-Xylene	ug/m3	0.79U	1.8	0.79	03/10/17 16:11	
Methyl acetate	ug/m3	1.5U	1.5	1.5	03/10/17 16:11	
Methyl-tert-butyl ether	ug/m3	0.30U	3.7	0.30	03/10/17 16:11	
Methylcyclohexane	ug/m3	0.24U	0.82	0.24	03/10/17 16:11	
Methylene Chloride	ug/m3	0.54U	3.5	0.54	03/10/17 16:11	
n-Hexane	ug/m3	0.36U	0.72	0.36	03/10/17 16:11	
o-Xylene	ug/m3	0.35U	0.88	0.35	03/10/17 16:11	
Styrene	ug/m3	0.19U	0.87	0.19	03/10/17 16:11	
Tetrachloroethene	ug/m3	0.28U	0.69	0.28	03/10/17 16:11	
Toluene	ug/m3	0.15U	0.77	0.15	03/10/17 16:11	
trans-1,2-Dichloroethene	ug/m3	0.38U	0.81	0.38	03/10/17 16:11	
trans-1,3-Dichloropropene	ug/m3	0.26U	0.92	0.26	03/10/17 16:11	
Trichloroethene	ug/m3	0.28U	0.55	0.28	03/10/17 16:11	
Trichlorofluoromethane	ug/m3	0.13U	1.1	0.13	03/10/17 16:11	
Vinyl chloride	ug/m3	0.20U	0.26	0.20	03/10/17 16:11	

LABORATORY CONTROL SAMPLE: 2534384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	60.7	109	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.4	109	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	57.8	104	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	81.7	105	75-128	
1,1-Dichloroethane	ug/m3	41.1	42.9	104	75-127	
1,1-Dichloroethene	ug/m3	40.3	42.1	105	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	117	155	60-150	CH,L1,SS
1,2,4-Trimethylbenzene	ug/m3	50	55.4	111	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	153	156		2M,CH
1,2-Dibromoethane (EDB)	ug/m3	78.1	86.3	111	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	66.5	109	75-139	
1,2-Dichloroethane	ug/m3	41.1	43.9	107	75-130	
1,2-Dichloropropane	ug/m3	47	48.8	104	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	55.3	111	75-133	
1,3-Butadiene	ug/m3	22.5	23.6	105	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	67.5	110	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	63.5	104	75-139	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

LABORATORY CONTROL SAMPLE: 2534384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	48.5	132	65-149	CH
2-Butanone (MEK)	ug/m3	30	31.8	106	75-128	
2-Hexanone	ug/m3	104	115	111	75-138	
2-Propanol	ug/m3	125	162	129	75-127	L1
4-Ethyltoluene	ug/m3	50	56.5	113	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	113	108	75-130	
Acetone	ug/m3	121	135	112	64-129	
Allyl chloride	ug/m3	79.5	94.5	119	60-147	
Benzene	ug/m3	32.5	34.3	106	75-129	
Bromodichloromethane	ug/m3	68.1	75.6	111	75-134	
Bromoform	ug/m3	105	116	111	75-150	
Bromomethane	ug/m3	39.5	41.1	104	75-127	
Carbon disulfide	ug/m3	31.6	33.4	106	75-134	
Carbon tetrachloride	ug/m3	64	75.4	118	68-150	
Chlorobenzene	ug/m3	46.8	50.6	108	75-132	
Chlorodifluoromethane	ug/m3	36	39.1	109	67-134	
Chloroethane	ug/m3	26.8	28.8	107	75-132	
Chloroform	ug/m3	49.6	54.3	109	75-125	
Chloromethane	ug/m3	21	21.6	103	75-126	
Chloropentafluoroethane	ug/m3	64.2	106	165		2M,CH
cis-1,2-Dichloroethene	ug/m3	40.3	45.5	113	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	51.6	112	75-137	
Cyclohexane	ug/m3	35	34.2	98	75-126	
Dibromochloromethane	ug/m3	86.6	106	122	75-144	
Dichlorodifluoromethane	ug/m3	50.3	54.6	109	75-129	
Dichlorotetrafluoroethane	ug/m3	71	75.1	106	75-125	
Ethylbenzene	ug/m3	44.1	46.6	106	75-134	
Freon 123	ug/m3	63.6	66.4	104		2M
Hexachloro-1,3-butadiene	ug/m3	108	141	130	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	51.4	103	75-140	
m&p-Xylene	ug/m3	88.3	99.8	113	75-129	
Methyl acetate	ug/m3	30.8	35.7	116		2M
Methyl-tert-butyl ether	ug/m3	91.6	101	111	66-148	
Methylcyclohexane	ug/m3	40.8	41.0	100	73-137	
Methylene Chloride	ug/m3	177	190	108	67-133	
n-Hexane	ug/m3	35.8	36.6	102	67-132	
o-Xylene	ug/m3	44.1	44.7	101	75-129	
Styrene	ug/m3	43.3	49.8	115	75-139	
Tetrachloroethene	ug/m3	68.9	72.5	105	75-129	
Toluene	ug/m3	38.3	40.1	105	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	45.5	113	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	49.1	106	75-142	
Trichloroethene	ug/m3	54.6	56.7	104	75-128	
Trichlorofluoromethane	ug/m3	57.1	60.2	105	75-127	
Vinyl chloride	ug/m3	26	26.8	103	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

SAMPLE DUPLICATE: 2534983

Parameter	Units	10380372002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.45U	0.45U		25	
1,1,2,2-Tetrachloroethane	ug/m3	0.60U	0.60U		25	
1,1,2-Trichloroethane	ug/m3	0.45U	0.45U		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.99J	0.55U		25	
1,1-Dichloroethane	ug/m3	0.29U	0.29U		25	
1,1-Dichloroethene	ug/m3	0.44U	0.44U		25	
1,2,4-Trichlorobenzene	ug/m3	1.7U	1.7U		25	
1,2,4-Trimethylbenzene	ug/m3	0.83J	0.74J		25	
1,2-Dibromo-3-chloropropane	ug/m3	9.0U	9.0U		25	
1,2-Dibromoethane (EDB)	ug/m3	1.4U	1.4U		25	
1,2-Dichlorobenzene	ug/m3	0.94U	0.94U		25	
1,2-Dichloroethane	ug/m3	0.38U	0.38U		25	
1,2-Dichloropropane	ug/m3	0.49U	0.49U		25	
1,3,5-Trimethylbenzene	ug/m3	0.33U	0.33U		25	
1,3-Butadiene	ug/m3	0.32U	0.32U		25	
1,3-Dichlorobenzene	ug/m3	0.97U	0.97U		25	
1,4-Dichlorobenzene	ug/m3	0.91U	0.91U		25	
1,4-Dioxane (p-Dioxane)	ug/m3	0.64U	0.64U		25	
2-Butanone (MEK)	ug/m3	0.99J	0.94J		25	
2-Hexanone	ug/m3	0.75U	0.75U		25	
2-Propanol	ug/m3	11.6	10.1	14	25	L1
4-Ethyltoluene	ug/m3	0.34U	0.34U		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.40U	0.40U		25	
Acetone	ug/m3	4.2J	4.1J		25	
Allyl chloride	ug/m3	0.42U	0.42U		25	
Benzene	ug/m3	0.22U	0.40J		25	
Bromodichloromethane	ug/m3	0.36U	0.36U		25	
Bromoform	ug/m3	1.6U	1.6U		25	
Bromomethane	ug/m3	0.57U	0.57U		25	
Carbon disulfide	ug/m3	0.18U	0.18U		25	
Carbon tetrachloride	ug/m3	0.54J	0.55J		25	
Chlorobenzene	ug/m3	0.25U	0.25U		25	
Chlorodifluoromethane	ug/m3	32.2	33.2	3	25	
Chloroethane	ug/m3	0.36U	0.36U		25	
Chloroform	ug/m3	0.35U	0.35U		25	
Chloromethane	ug/m3	0.20U	0.20U		25	
Chloropentafluoroethane	ug/m3	10.4	5.9U		25	
cis-1,2-Dichloroethene	ug/m3	0.45U	0.45U		25	
cis-1,3-Dichloropropene	ug/m3	0.68U	0.68U		25	
Cyclohexane	ug/m3	0.58U	0.58U		25	
Dibromochloromethane	ug/m3	1.6U	1.6U		25	
Dichlorodifluoromethane	ug/m3	2.8	2.8	2	25	
Dichlorotetrafluoroethane	ug/m3	0.57U	0.57U		25	
Ethylbenzene	ug/m3	0.78U	0.85J		25	
Freon 123	ug/m3	5.8U	5.8U		25	
Hexachloro-1,3-butadiene	ug/m3	1.2U	1.2U		25	
Isopropylbenzene (Cumene)	ug/m3	0.26J	0.25U		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

SAMPLE DUPLICATE: 2534983

Parameter	Units	10380372002 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	2.0J	2.0J		25	
Methyl acetate	ug/m3	2.8U	2.8U		25	
Methyl-tert-butyl ether	ug/m3	0.55U	0.55U		25	
Methylcyclohexane	ug/m3	0.44U	0.44U		25	
Methylene Chloride	ug/m3	7.3	7.0	4	25	
n-Hexane	ug/m3	1.1J	1.1J		25	
o-Xylene	ug/m3	0.87J	0.93J		25	
Styrene	ug/m3	0.35U	0.35U		25	
Tetrachloroethene	ug/m3	3.1	3.1	3	25	
Toluene	ug/m3	8.4	8.7	3	25	
trans-1,2-Dichloroethene	ug/m3	0.70U	0.70U		25	
trans-1,3-Dichloropropene	ug/m3	0.48U	0.63J		25	
Trichloroethene	ug/m3	1.9	1.9	3	25	
Trichlorofluoromethane	ug/m3	1.5J	1.7J		25	
Vinyl chloride	ug/m3	0.36U	0.36U		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 463593 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 07006L.D Lab Sample ID: 2534980
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 13:09
Instrument ID: 10AIRD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-103_30_20170226	10380372010	07011.D	16:24
02	VP-103_20_20170226	10380372009	07013.D	17:23
03	VP-103_40_20170226	10380372011	07014.D	17:51
04	VP-103_50_20170226	10380372012	07015.D	18:19
05	VP-103_61.5_20170226	10380372013	07016.D	18:50
06	VP-103_74.5_20170226	10380372014	07022.D	21:23
07	LIJ-VP-7_5_20170226	10380372015	07023.D	21:54
08	LIJ-VP-7_10_20170226	10380372016	07024.D	22:22
09	LIJ-VP-7_20_20170226	10380372017	07025.D	22:49
10	LIJ-VP-7_40_20170226	10380372018	07026.D	23:18
11	LIJ-VP-7_50_20170226	10380372019	07027.D	23:46
12	LIJ-VP-7_50_20170226DUP	10380372020	07028.D	00:14
13	VP-102_73.5_20170226DUP	10380372021	07029.D	00:43

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

QC Batch: 463593 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10380372009, 10380372010, 10380372011, 10380372012, 10380372013, 10380372014, 10380372015, 10380372016, 10380372017, 10380372018, 10380372019, 10380372020, 10380372021

METHOD BLANK: 2534980 Matrix: Air
Associated Lab Samples: 10380372009, 10380372010, 10380372011, 10380372012, 10380372013, 10380372014, 10380372015, 10380372016, 10380372017, 10380372018, 10380372019, 10380372020, 10380372021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.25U	1.1	0.25	03/11/17 13:09	
1,1,2,2-Tetrachloroethane	ug/m3	0.33U	0.70	0.33	03/11/17 13:09	
1,1,2-Trichloroethane	ug/m3	0.25U	0.55	0.25	03/11/17 13:09	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.30U	1.6	0.30	03/11/17 13:09	
1,1-Dichloroethane	ug/m3	0.16U	0.82	0.16	03/11/17 13:09	
1,1-Dichloroethene	ug/m3	0.24U	0.81	0.24	03/11/17 13:09	
1,2,4-Trichlorobenzene	ug/m3	0.91U	3.8	0.91	03/11/17 13:09	
1,2,4-Trimethylbenzene	ug/m3	0.12U	1.0	0.12	03/11/17 13:09	
1,2-Dibromo-3-chloropropane	ug/m3	4.9U	4.9	4.9	03/11/17 13:09	
1,2-Dibromoethane (EDB)	ug/m3	0.77U	1.6	0.77	03/11/17 13:09	
1,2-Dichlorobenzene	ug/m3	0.51U	1.2	0.51	03/11/17 13:09	
1,2-Dichloroethane	ug/m3	0.20U	0.41	0.20	03/11/17 13:09	
1,2-Dichloropropane	ug/m3	0.27U	0.94	0.27	03/11/17 13:09	
1,3,5-Trimethylbenzene	ug/m3	0.18U	1.0	0.18	03/11/17 13:09	
1,3-Butadiene	ug/m3	0.18U	0.45	0.18	03/11/17 13:09	
1,3-Dichlorobenzene	ug/m3	0.53U	1.2	0.53	03/11/17 13:09	
1,4-Dichlorobenzene	ug/m3	0.50U	1.2	0.50	03/11/17 13:09	
1,4-Dioxane (p-Dioxane)	ug/m3	0.35U	3.7	0.35	03/11/17 13:09	
2-Butanone (MEK)	ug/m3	0.23U	3.0	0.23	03/11/17 13:09	
2-Hexanone	ug/m3	0.41U	4.2	0.41	03/11/17 13:09	
2-Propanol	ug/m3	0.24U	2.5	0.24	03/11/17 13:09	
4-Ethyltoluene	ug/m3	0.19U	1.0	0.19	03/11/17 13:09	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.22U	4.2	0.22	03/11/17 13:09	
Acetone	ug/m3	0.83U	6.0	0.83	03/11/17 13:09	MN
Allyl chloride	ug/m3	0.23U	1.6	0.23	03/11/17 13:09	
Benzene	ug/m3	0.12U	0.32	0.12	03/11/17 13:09	
Bromodichloromethane	ug/m3	0.19U	1.4	0.19	03/11/17 13:09	
Bromoform	ug/m3	0.90U	5.3	0.90	03/11/17 13:09	MN
Bromomethane	ug/m3	0.31U	0.79	0.31	03/11/17 13:09	
Carbon disulfide	ug/m3	0.10U	0.63	0.10	03/11/17 13:09	
Carbon tetrachloride	ug/m3	0.19U	0.64	0.19	03/11/17 13:09	
Chlorobenzene	ug/m3	0.13U	0.94	0.13	03/11/17 13:09	
Chlorodifluoromethane	ug/m3	0.28U	0.72	0.28	03/11/17 13:09	
Chloroethane	ug/m3	0.19U	0.54	0.19	03/11/17 13:09	
Chloroform	ug/m3	0.19U	0.50	0.19	03/11/17 13:09	
Chloromethane	ug/m3	0.11U	0.42	0.11	03/11/17 13:09	
Chloropentafluoroethane	ug/m3	3.2U	3.2	3.2	03/11/17 13:09	CL
cis-1,2-Dichloroethene	ug/m3	0.25U	0.81	0.25	03/11/17 13:09	
cis-1,3-Dichloropropene	ug/m3	0.37U	0.92	0.37	03/11/17 13:09	
Cyclohexane	ug/m3	0.32U	0.70	0.32	03/11/17 13:09	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

METHOD BLANK: 2534980 Matrix: Air

Associated Lab Samples: 10380372009, 10380372010, 10380372011, 10380372012, 10380372013, 10380372014, 10380372015, 10380372016, 10380372017, 10380372018, 10380372019, 10380372020, 10380372021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/m3	0.86U	1.7	0.86	03/11/17 13:09	
Dichlorodifluoromethane	ug/m3	0.48U	1.0	0.48	03/11/17 13:09	
Dichlorotetrafluoroethane	ug/m3	0.31U	1.4	0.31	03/11/17 13:09	
Ethylbenzene	ug/m3	0.42U	0.88	0.42	03/11/17 13:09	
Freon 123	ug/m3	3.2U	3.2	3.2	03/11/17 13:09	
Hexachloro-1,3-butadiene	ug/m3	0.65U	2.2	0.65	03/11/17 13:09	
Isopropylbenzene (Cumene)	ug/m3	0.14U	2.5	0.14	03/11/17 13:09	
m&p-Xylene	ug/m3	0.79U	1.8	0.79	03/11/17 13:09	
Methyl acetate	ug/m3	1.5U	1.5	1.5	03/11/17 13:09	
Methyl-tert-butyl ether	ug/m3	0.30U	3.7	0.30	03/11/17 13:09	
Methylcyclohexane	ug/m3	0.24U	0.82	0.24	03/11/17 13:09	
Methylene Chloride	ug/m3	0.54U	3.5	0.54	03/11/17 13:09	
n-Hexane	ug/m3	0.36U	0.72	0.36	03/11/17 13:09	
o-Xylene	ug/m3	0.35U	0.88	0.35	03/11/17 13:09	
Styrene	ug/m3	0.19U	0.87	0.19	03/11/17 13:09	
Tetrachloroethene	ug/m3	0.28U	0.69	0.28	03/11/17 13:09	
Toluene	ug/m3	0.15U	0.77	0.15	03/11/17 13:09	
trans-1,2-Dichloroethene	ug/m3	0.38U	0.81	0.38	03/11/17 13:09	
trans-1,3-Dichloropropene	ug/m3	0.26U	0.92	0.26	03/11/17 13:09	
Trichloroethene	ug/m3	0.28U	0.55	0.28	03/11/17 13:09	
Trichlorofluoromethane	ug/m3	0.13U	1.1	0.13	03/11/17 13:09	
Vinyl chloride	ug/m3	0.20U	0.26	0.20	03/11/17 13:09	

LABORATORY CONTROL SAMPLE: 2534981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	67.6	122	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	84.0	120	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	61.6	111	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	90.2	116	75-128	
1,1-Dichloroethane	ug/m3	41.1	47.0	114	75-127	
1,1-Dichloroethene	ug/m3	40.3	46.4	115	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	127	169	60-150	CH,L1
1,2,4-Trimethylbenzene	ug/m3	50	59.2	118	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	168	171		2M,CH
1,2-Dibromoethane (EDB)	ug/m3	78.1	96.7	124	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	69.6	114	75-139	
1,2-Dichloroethane	ug/m3	41.1	49.3	120	75-130	
1,2-Dichloropropane	ug/m3	47	52.1	111	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	60.3	121	75-133	
1,3-Butadiene	ug/m3	22.5	25.4	113	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	71.9	118	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	66.6	109	75-139	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10380372

LABORATORY CONTROL SAMPLE: 2534981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	41.1	112	65-149	
2-Butanone (MEK)	ug/m3	30	34.4	115	75-128	
2-Hexanone	ug/m3	104	126	121	75-138	
2-Propanol	ug/m3	125	152	122	75-127	
4-Ethyltoluene	ug/m3	50	62.8	126	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	120	115	75-130	
Acetone	ug/m3	121	156	129	64-129	
Allyl chloride	ug/m3	79.5	107	134	60-147	CH
Benzene	ug/m3	32.5	37.5	115	75-129	
Bromodichloromethane	ug/m3	68.1	84.6	124	75-134	
Bromoform	ug/m3	105	129	123	75-150	
Bromomethane	ug/m3	39.5	44.8	114	75-127	
Carbon disulfide	ug/m3	31.6	36.8	116	75-134	
Carbon tetrachloride	ug/m3	64	85.0	133	68-150	CH
Chlorobenzene	ug/m3	46.8	55.0	117	75-132	
Chlorodifluoromethane	ug/m3	36	42.9	119	67-134	
Chloroethane	ug/m3	26.8	31.3	117	75-132	
Chloroform	ug/m3	49.6	60.0	121	75-125	
Chloromethane	ug/m3	21	23.1	110	75-126	
Chloropentafluoroethane	ug/m3	64.2	38.3	60		2M,CL
cis-1,2-Dichloroethene	ug/m3	40.3	48.9	121	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	55.0	119	75-137	
Cyclohexane	ug/m3	35	37.5	107	75-126	
Dibromochloromethane	ug/m3	86.6	117	135	75-144	CH
Dichlorodifluoromethane	ug/m3	50.3	61.1	122	75-129	
Dichlorotetrafluoroethane	ug/m3	71	82.8	117	75-125	
Ethylbenzene	ug/m3	44.1	50.5	115	75-134	
Freon 123	ug/m3	63.6	72.5	114		2M
Hexachloro-1,3-butadiene	ug/m3	108	150	138	45-150	CH
Isopropylbenzene (Cumene)	ug/m3	50	57.1	114	75-140	
m&p-Xylene	ug/m3	88.3	111	125	75-129	
Methyl acetate	ug/m3	30.8	38.7	126		2M
Methyl-tert-butyl ether	ug/m3	91.6	108	117	66-148	
Methylcyclohexane	ug/m3	40.8	43.9	108	73-137	
Methylene Chloride	ug/m3	177	217	123	67-133	
n-Hexane	ug/m3	35.8	39.8	111	67-132	
o-Xylene	ug/m3	44.1	48.4	110	75-129	
Styrene	ug/m3	43.3	55.8	129	75-139	
Tetrachloroethene	ug/m3	68.9	82.1	119	75-129	
Toluene	ug/m3	38.3	42.4	111	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	49.9	124	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	53.7	116	75-142	
Trichloroethene	ug/m3	54.6	64.3	118	75-128	
Trichlorofluoromethane	ug/m3	57.1	68.1	119	75-127	
Vinyl chloride	ug/m3	26	28.5	110	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 06814.D BFB Injection Date: 03/09/2017
Instrument ID: 10AIRD BFB Injection Time: 16:21
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.69	
75	30.00 - 66.00% of mass 95	50.93	
96	5.00 - 9.00% of mass 95	6.95	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	109.15	
175	4.00 - 9.00% of mass 174	9.25	(8.47)
176	93.00 - 101.00% of mass 174	104.38	(95.63)
177	5.00 - 9.00% of mass 176	7.72	(7.40)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL2	CAL2	06816.D	03/09/2017	19:29
2	CAL3	CAL3	06817.D	03/09/2017	20:31
3	CAL4	CAL4	06818.D	03/09/2017	21:36
4	CAL5	CAL5	06819.D	03/09/2017	22:41
5	CAL6	CAL6	06820.D	03/09/2017	23:55
6	CAL7	CAL7	06821.D	03/10/2017	01:09
7	CAL1	CAL1	06824.D	03/10/2017	09:35
8	ICV	ICV	06826.D	03/10/2017	11:47

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airD.i\030917.B\06824.d
Level 02: all \\192.168.10.12\chem\10airD.i\030917.B\06816.d
Level 03: all \\192.168.10.12\chem\10airD.i\030917.B\06817.d
Level 04: all \\192.168.10.12\chem\10airD.i\030917.B\06818.d
Level 05: all \\192.168.10.12\chem\10airD.i\030917.B\06819.d
Level 06: all \\192.168.10.12\chem\10airD.i\030917.B\06820.d
Level 07: all \\192.168.10.12\chem\10airD.i\030917.B\06821.d

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	1540	1170	4593	3537	64728	+++++	+++++	LINR	0.00002	0.01703		0.99646
2 1,1-Difluoroethane	0.04357	0.04804	0.05072	0.05580	0.04775	0.04737	0.04761	AVRG		0.04870		7.73619
3 Chlorodifluoromethane	0.01863	0.02228	0.02503	0.02892	0.02501	0.02498	0.02413	AVRG		0.02414		12.97511
4 Propylene	0.16845	0.15579	0.17517	0.18388	0.20435	0.17912	0.15154	AVRG		0.17404		10.25983

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	0.21660	0.23232	0.25073	0.25234	0.22577	0.19609					
	0.16512						AVRG		0.21985		14.10524
6 Dichlorotetrafluoroethane	0.21687	0.22032	0.26068	0.27352	0.22529	0.19674					
	0.16778						AVRG		0.22303		16.12680
7 Chloromethane	0.10314	0.10356	0.10701	0.11638	0.10155	0.09733					
	0.09279						AVRG		0.10311		7.23534
8 Vinyl chloride	0.08107	0.07142	0.08137	0.08884	0.07983	0.07970					
	0.07807						AVRG		0.08004		6.42385
9 1,3-Butadiene	0.05150	0.05334	0.05854	0.05793	0.05543	0.05666					
	0.05615						AVRG		0.05565		4.49050
10 Bromomethane	0.07891	0.08314	0.09386	0.09433	0.08546	0.08512					
	0.08401						AVRG		0.08641		6.57117
11 Chloroethane	0.02733	0.02632	0.03009	0.03499	0.03058	0.03143					
	0.03147						AVRG		0.03032		9.47016

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Ethanol	0.02044	0.02110	0.01580	0.01423	0.01185	0.01164					
	0.01241						AVRG		0.01535		25.94074
13 Vinyl Bromide	0.07193	0.07612	0.08581	0.08688	0.08243	0.08264					
	0.08114						AVRG		0.08099		6.54231
14 Isopentane	0.09820	0.10420	0.10441	0.10704	0.09013	0.08583					
	0.08083						AVRG		0.09580		10.71672
15 Freon 123	0.18788	0.19469	0.21633	0.22569	0.20279	0.19956					
	0.19176						AVRG		0.20267		6.76358
16 Trichlorofluoromethane	0.21725	0.24276	0.25815	0.26396	0.23269	0.21038					
	0.18479						AVRG		0.23000		12.17718
17 Acrolein	976	2559	6915	16314	231383	476217					
	702641						QUAD	-0.00102	0.02553	-0.00014	0.99992
18 Acetone	+++++	45094	127456	259121	2093788	3242186					
	4023542						QUAD	0.00966	0.12124	-0.00353	0.99855

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
19 Isopropyl Alcohol	0.09840	0.10221	0.08284	0.08277	0.06787	0.05778					
	0.05343						AVRG		0.07790		24.37640
20 1,1-Dichloroethene	0.13260	0.12613	0.15077	0.15029	0.13764	0.13312					
	0.12828						AVRG		0.13698		7.27168
21 Acrylonitrile	0.04166	0.04992	0.04641	0.04979	0.05224	0.05229					
	0.05056						AVRG		0.04898		7.72130
24 Tert Butyl Alcohol (TBA)	0.10234	0.12429	0.10266	0.11366	0.11186	0.09727					
	0.08977						AVRG		0.10598		10.83817
22 Freon 113	0.16215	0.18280	0.19828	0.20805	0.18084	0.17219					
	0.15793						AVRG		0.18032		10.11336
23 Methyl Acetate	0.19386	0.18315	0.19421	0.21291	0.19817	0.18262					
	0.16810						AVRG		0.19043		7.43819
25 Methylene chloride	18501	38536	100107	202534	1714531	2873993					
	3610079						QUAD	0.00344	0.10168	-0.00265	0.99984

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
26 Allyl Chloride	0.01893	0.01734	0.02035	0.02031	0.02504	0.02528					
	0.02454						AVRG		0.02168		14.88255
27 Carbon Disulfide	0.18549	0.19402	0.20126	0.22036	0.19698	0.18792					
	0.17304						AVRG		0.19415		7.59658
28 trans-1,2-dichloroethene	0.04511	0.05854	0.07086	0.07230	0.06941	0.06922					
	0.07049						AVRG		0.06513		15.25583
29 Methyl Tert Butyl Ether	0.17309	0.17471	0.19796	0.20526	0.17905	0.14557					
	0.12234						AVRG		0.17114		16.86530
30 Vinyl Acetate	+++++	7472	19955	44910	873135	1629866					
	2321342						QUAD	-0.00646	0.24742	-0.01507	0.99976
31 1,1-Dichloroethane	0.14266	0.14428	0.15287	0.16616	0.14901	0.14216					
	0.13877						AVRG		0.14799		6.26917
33 Methyl Ethyl Ketone	0.02887	0.02596	0.03542	0.03576	0.03194	0.03206					
	0.03255						AVRG		0.03179		10.90813

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
34 n-Hexane	0.11065	0.11515	0.12077	0.12960	0.11274	0.10908						
	0.10669							AVRG		0.11495		6.87253
35 Di-isopropyl Ether	0.27520	0.26248	0.30842	0.32466	0.28379	0.25958						
	0.23677							AVRG		0.27870		10.78494
36 cis-1,2-Dichloroethene	0.05794	0.06650	0.07341	0.08446	0.07762	0.07766						
	0.07886							AVRG		0.07378		12.04314
37 Ethyl Acetate	0.19519	0.16489	0.19087	0.18871	0.18905	0.18322						
	0.17558							AVRG		0.18393		5.68879
38 Ethyl Tert-Butyl Ether	18838	42367	112323	234007	2077380	3339677						
	4119637							QUAD	0.00278	0.24714	-0.01412	0.99952
39 Chloroform	0.16238	0.18112	0.20150	0.21887	0.19205	0.18095						
	0.16737							AVRG		0.18632		10.53236
40 Tetrahydrofuran	0.09657	0.08614	0.09318	0.10247	0.09058	0.09041						
	0.09042							AVRG		0.09282		5.70880

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
41 1,1,1-Trichloroethane	0.18401	0.17441	0.19473	0.20542	0.19106	0.18568						
	0.17670							AVRG		0.18743		5.71926
42 1,2-Dichloroethane	0.13624	0.12936	0.13943	0.14913	0.13603	0.13315						
	0.12961							AVRG		0.13614		4.99394
43 Benzene	0.22494	0.21839	0.22070	0.24825	0.22318	0.20961						
	0.19534							AVRG		0.22006		7.30778
45 Carbon tetrachloride	0.15916	0.15569	0.17724	0.18207	0.19678	0.18698						
	0.17697							AVRG		0.17641		8.30115
44 Cyclohexane	0.10503	0.12303	0.12165	0.13953	0.10473	0.10200						
	0.09928							AVRG		0.11361		13.04487
46 Tert Amyl Methyl Ether	63905	79317	102324	138989	874123	1669761						
	2341559							QUAD	0.01680	0.22763	-0.01021	0.99993
48 2,2,4-Trimethylpentane	33673	74834	196627	408650	2853110	4281827						
	5176367							QUAD	0.01662	0.33232	-0.02100	0.99805

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
49 Heptane	0.16398	0.18006	0.18854	0.19664	0.16171	0.15756					
	0.15403						AVRG		0.17179		9.64423
50 1,2-Dichloropropane	0.10071	0.09948	0.10253	0.11084	0.10005	0.09919					
	0.09677						AVRG		0.10137		4.46036
51 Trichloroethene	0.11056	0.11084	0.12983	0.13997	0.11987	0.11824					
	0.11625						AVRG		0.12079		8.82006
52 Methyl methacrylate	0.08054	0.07151	0.07791	0.08266	0.08069	0.08176					
	0.08362						AVRG		0.07981		5.12054
53 Bromodichloromethane	0.19658	0.18007	0.20957	0.23175	0.22010	0.21452					
	0.20343						AVRG		0.20800		8.06120
54 1,4-Dioxane	0.02183	0.02055	0.01786	0.01103	0.01182	+++++					
	+++++						AVRG		0.01662		29.85530
55 Methylcyclohexane	0.04558	0.04729	0.04977	0.05085	0.04387	0.04370					
	0.04503						AVRG		0.04658		6.07043

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
56 Methyl Isobutyl Ketone	18237	39511	107005	225353	2069026	3434951					
	4349059						QUAD	0.00157	0.24433	-0.01265	0.99972
57 cis-1,3-Dichloropropene	0.12163	0.12160	0.13723	0.14430	0.14446	0.14706					
	0.14381						AVRG		0.13716		8.04291
58 trans-1,3-Dichloropropene	3156	6143	18879	40683	490872	1021474					
	1565108						QUAD	-0.00091	0.12850	0.00234	1.00000
60 Toluene	0.31746	0.29017	0.32203	0.32421	0.29112	0.27402					
	0.25033						AVRG		0.29562		9.32527
61 1,1,2-Trichloroethane	0.11642	0.11308	0.11503	0.12050	0.11170	0.11249					
	0.11201						AVRG		0.11446		2.76191
62 Methyl Butyl Ketone	0.22159	0.23095	0.25754	0.27796	0.24060	0.20324					
	+++++						AVRG		0.23865		11.10296
63 n-Octane	0.25812	0.25955	0.26094	0.27813	0.23767	0.22718					
	0.21550						AVRG		0.24816		8.87037

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
64 Dibromochloromethane	0.23281	0.21028	0.23986	0.24523	0.27444	0.26734					
	0.25317						AVRG		0.24616		8.78056
65 1,2-Dibromoethane	0.21312	0.19397	0.20881	0.23086	0.21462	0.21479					
	0.21360						AVRG		0.21282		5.09144
66 Tetrachloroethene	0.20903	0.21430	0.24896	0.25105	0.21364	0.20744					
	0.20310						AVRG		0.22107		9.10458
68 Chlorobenzene	0.28078	0.26675	0.28572	0.28828	0.26349	0.25660					
	0.24355						AVRG		0.26931		6.11314
69 Ethyl Benzene	0.50327	0.47603	0.45663	0.47974	0.41937	0.38955					
	0.34681						AVRG		0.43877		12.75779
70 m&p-Xylene	24145	52247	111926	226254	2048253	3556376					
	4603197						QUAD	0.00435	0.34713	-0.02034	0.99994
71 Bromoform	4583	10241	24551	51685	909834	1863473					
	2712331						QUAD	-0.00591	0.29645	-0.00911	0.99981

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
72 n-Nonane	0.21082	0.23713	0.24388	0.25223	0.23057	0.22035					
	0.20782						AVRG		0.22897		7.31587
73 Styrene	0.19098	0.21718	0.22422	0.23896	0.22822	0.23239					
	0.22602						AVRG		0.22257		6.95809
74 o-Xylene	0.43650	0.41012	0.37324	0.36701	0.32960	0.31700					
	0.29867						AVRG		0.36173		13.86910
75 1,1,2,2-Tetrachloroethane	0.25303	0.23687	0.24069	0.24399	0.24016	0.23667					
	0.23103						AVRG		0.24035		2.87537
76 Isopropylbenzene	0.49572	0.50614	0.48632	0.48549	0.42440	0.38819					
	0.34853						AVRG		0.44783		13.69251
77 N-Propylbenzene	0.44917	0.49704	0.50623	0.51304	0.49183	0.44903					
	0.39071						AVRG		0.47101		9.30597
78 4-Ethyltoluene	0.35338	0.44583	0.37129	0.40581	0.39792	0.38025					
	0.34239						AVRG		0.38527		9.06986

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,3,5-Trimethylbenzene	+++++	29082	57888	113750	1085497	2174939	3073091	QUAD	0.00137	0.35452	-0.01737	0.99983
80 n-Decane	0.12831	0.18032	0.16571	0.17246	0.16335	0.16789	0.15960	AVRG		0.16252		10.15451
81 Tert-Butyl Benzene	0.36334	0.41040	0.36604	0.35739	0.34035	0.33486	0.31218	AVRG		0.35493		8.69893
82 1,2,4-Trimethylbenzene	+++++	37905	64983	116341	1048667	2106251	2945609	QUAD	0.00383	0.34346	-0.01806	0.99971
83 1,3-Dichlorobenzene	0.32184	0.25503	0.24361	0.23439	0.21931	0.22303	0.21276	AVRG		0.24428		15.22283
84 Sec- Butylbenzene	0.41978	0.50516	0.45807	0.46758	0.44264	0.41696	0.37434	AVRG		0.44065		9.53347
86 Benzyl Chloride	0.29888	0.27449	0.22345	0.20716	0.23605	0.24322	0.22501	AVRG		0.24404		13.11445

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
87 1,4-Dichlorobenzene	0.32184	0.25503	0.24015	0.23977	0.21975	0.22303						
	0.21276							AVRG		0.24462		15.12519
88 p-Isopropyltoluene	0.36111	0.44990	0.40772	0.41225	0.39401	0.37646						
	0.34571							AVRG		0.39245		8.91889
89 1,2,3-Trimethylbenzene	0.28517	0.33052	0.32061	0.32138	0.30796	0.29802						
	0.28584							AVRG		0.30707		5.87316
90 1,2-Dichlorobenzene	0.24638	0.24296	0.21186	0.20868	0.20530	0.20536						
	0.19876							AVRG		0.21704		8.89711
91 N-Butylbenzene	0.30304	0.34994	0.31609	0.34266	0.33174	0.31856						
	0.29193							AVRG		0.32199		6.48135
92 1,2-Dibromo-3-Chloropropane	0.05889	0.05356	0.03871	0.04561	0.05257	0.05310						
	0.04462							AVRG		0.04958		13.83891
93 1,2,4-Trichlorobenzene	+++++	+++++	0.05656	0.07964	0.04680	0.05263						
	0.05622							AVRG		0.05837		21.44740

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	+++++	0.12813	0.09468	0.13729	0.07984	0.08402					
	+++++						AVRG		0.10479		25.05538
95 Hexachlorobutadiene	+++++	0.10871	0.08714	0.11294	0.06387	0.06930					
	0.08076						AVRG		0.08712		23.13608
$ 32 Hexane-d14(S)	0.52367	0.53227	0.50892	0.53696	0.54277	0.53513					
	0.53647						AVRG		0.53088		2.12534
$ 59 Toluene-d8 (S)	0.97851	0.98044	0.99405	1.01980	1.01009	1.01223					
	1.01901						AVRG		1.00202		1.75531
$ 85 1,4-dichlorobenzene-d4 (S)	0.56501	0.58672	0.59177	0.56605	0.64037	0.65840					
	0.68049						AVRG		0.61269		7.60119

Report Date : 13-Mar-2017 07:18

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAR-2017 18:27
End Cal Date : 10-MAR-2017 09:35
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Last Edit : 10-Mar-2017 16:18 ecrouser

Average %RSD Results.
Calculated Average %RSD = 10.15340
Maximun Average %RSD = 0.000e+000
* Failed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

NO SAMPLES ASSOCIATED

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06826.d
Report Date: 13-Mar-2017 10:47

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: 030917.B
Sample Matrix: Gas Fraction: VOA
Lab Smp Id: ICV Client Smp ID: BFB
Level: LOW Operator: EMC
Data Type: MS DATA SampleType: LCS
SpikeList File: 2016ICV.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\192.168.10.12\chem\10airD.i\030917.B\TO15_068-17.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
3	Chlorodifluorometh	10.4	11.2	108.12	60-140
4	Propylene	10.8	3.91	36.18*	60-140
5	Dichlorodifluorome	10.0	11.1	111.46	60-140
6	Dichlorotetrafluor	9.80	11.0	111.86	60-140
7	Chloromethane	10.0	10.5	104.90	60-140
8	Vinyl chloride	10.2	11.1	108.45	60-140
9	1,3-Butadiene	10.3	11.0	106.82	60-140
10	Bromomethane	9.70	10.4	107.16	60-140
11	Chloroethane	9.70	11.2	115.76	60-140
12	Ethanol	10.6	12.7	119.91	60-140
13	Vinyl Bromide	10.6	11.3	106.14	60-140
14	Isopentane	10.3	9.72	94.33	60-140
17	Acrolein	9.60	10.6	110.57	60-140
16	Trichlorofluoromet	10.2	10.9	106.40	60-140
18	Acetone	10.3	12.5	120.96	60-140
19	Isopropyl Alcohol	10.3	13.4	130.41	60-140
21	Acrylonitrile	11.3	12.7	112.76	60-140
20	1,1-Dichloroethene	10.5	11.1	105.57	60-140
24	Tert Butyl Alcohol	11.0	14.0	127.16	60-140
22	Freon 113	10.5	10.8	103.19	60-140
25	Methylene chloride	11.0	12.4	112.79	60-140
26	Allyl Chloride	11.0	15.3	138.77	60-140
27	Carbon Disulfide	10.5	12.5	118.82	60-140
28	trans-1,2-dichloro	10.2	12.1	118.30	60-140
29	Methyl Tert Butyl	10.5	12.7	121.24	60-140
30	Vinyl Acetate	11.1	11.3	102.07	60-140
31	1,1-Dichloroethane	10.5	11.0	105.10	60-140
33	Methyl Ethyl Keton	10.7	10.9	102.31	60-140
34	n-Hexane	10.5	10.7	102.03	60-140
35	Di-isopropyl Ether	10.4	10.8	103.92	60-140
37	Ethyl Acetate	10.9	12.0	109.85	60-140
36	cis-1,2-Dichloroet	10.8	11.5	106.20	60-140
38	Ethyl Tert-Butyl E	10.3	12.1	117.34	60-140
39	Chloroform	10.4	11.3	108.45	60-140
40	Tetrahydrofuran	10.9	11.0	100.76	60-140
41	1,1,1-Trichloroeth	10.4	11.0	105.66	60-140
42	1,2-Dichloroethane	10.6	10.9	103.21	60-140
43	Benzene	10.6	10.9	102.69	60-140
45	Carbon tetrachlori	10.5	12.0	114.19	60-140
44	Cyclohexane	10.5	10.2	96.90	60-140

Data File: \\192.168.10.12\chem\10airD.i\030917.B\06826.d
Report Date: 13-Mar-2017 10:47

	SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
46	Tert Amyl Methyl E	10.6	11.0	104.05	60-140
48	2,2,4-Trimethylpen	10.6	13.1	123.14	60-140
49	Heptane	10.6	10.3	97.30	60-140
50	1,2-Dichloropropan	10.7	10.9	102.16	60-140
51	Trichloroethene	10.5	10.7	102.12	60-140
54	1,4-Dioxane	10.5	11.0	105.10	60-140
53	Bromodichlorometha	10.5	11.6	110.69	60-140
55	Methylcyclohexane	10.5	10.5	99.87	60-140
56	Methyl Isobutyl Ke	10.5	12.4	118.38	60-140
57	cis-1,3-Dichloropr	11.2	11.6	103.89	60-140
58	trans-1,3-Dichloro	10.5	10.7	101.46	60-140
60	Toluene	10.7	10.8	101.20	60-140
61	1,1,2-Trichloroeth	10.6	10.9	103.15	60-140
62	Methyl Butyl Keton	10.8	14.8	137.25	60-140
64	Dibromochlorometha	11.2	12.7	113.79	60-140
65	1,2-Dibromoethane	10.6	11.8	111.39	60-140
66	Tetrachloroethene	10.5	11.0	105.18	60-140
68	Chlorobenzene	10.7	11.0	103.09	60-140
69	Ethyl Benzene	10.7	11.0	102.48	60-140
70	m&p-Xylene	10.7	12.7	118.69	60-140
71	Bromoform	10.8	11.7	108.41	60-140
73	Styrene	10.5	12.0	114.74	60-140
74	o-Xylene	10.6	10.7	100.58	60-140
75	1,1,2,2-Tetrachlor	10.6	12.3	116.48	60-140
76	Isopropylbenzene	10.2	11.1	109.09	60-140
77	N-Propylbenzene	10.0	12.5	125.38	60-140
78	4-Ethyltoluene	9.90	12.1	122.18	60-140
79	1,3,5-Trimethylben	10.3	12.2	118.19	60-140
81	Tert-Butyl Benzene	10.2	11.4	112.16	60-140
82	1,2,4-Trimethylben	10.2	12.4	121.53	60-140
83	1,3-Dichlorobenzen	10.4	12.4	118.88	60-140
84	Sec- Butylbenzene	10.3	12.7	123.24	60-140
86	Benzyl Chloride	10.4	11.6	111.17	60-140
87	1,4-Dichlorobenzen	10.1	11.4	113.13	60-140
88	p-Isopropyltoluene	10.1	12.4	122.34	60-140
89	1,2,3-Trimethylben	10.6	12.9	121.68	60-140
90	1,2-Dichlorobenzen	10.3	12.1	117.79	60-140
91	N-Butylbenzene	10.6	13.2	124.71	60-140
93	1,2,4-Trichloroben	9.80	14.4	147.44*	60-140
94	Naphthalene	10.5	16.5	156.76*	60-140
95	Hexachlorobutadien	10.0	13.5	135.41	60-140

	SURROGATE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
$ 32	Hexane-d14(S)	10.0	9.92	99.23	70-130
$ 59	Toluene-d8 (S)	10.0	9.91	99.06	70-130
$ 85	1,4-dichlorobenzen	10.0	11.0	110.03	70-130

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 06901.D BFB Injection Date: 03/10/2017
Instrument ID: 10AIRD BFB Injection Time: 14:22
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.22	
75	30.00 - 66.00% of mass 95	48.99	
96	5.00 - 9.00% of mass 95	7.00	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	110.34	
175	4.00 - 9.00% of mass 174	8.91	(8.08)
176	93.00 - 101.00% of mass 174	105.37	(95.50)
177	5.00 - 9.00% of mass 176	7.38	(7.00)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06902.D	03/10/2017	14:46
2	LCS for HBN 463555 [AIR/27876]	2534384	06902L.D	03/10/2017	14:46
3	BLANK for HBN 463555 [AIR/2787	2534383	06904L.D	03/10/2017	16:11
4	VP-102_8.5_20170226	10380372001	06905.D	03/10/2017	16:54
5	VP-102_19.5_20170226	10380372002	06906.D	03/10/2017	17:22
6	VP-102_19.5_201...(2525908DUP)	2534983-DUP	06907.D	03/10/2017	17:50
7	VP-102_51.5_20170226	10380372003	06908.D	03/10/2017	18:21
8	VP-102_57.5_20170226	10380372004	06909.D	03/10/2017	18:48
9	VP-102_61.5_20170226	10380372005	06911.D	03/10/2017	19:44
10	VP-102_73.5_20170226	10380372006	06912.D	03/10/2017	20:12
11	VP-103_5_20170226	10380372007	06913.D	03/10/2017	20:42
12	VP-103_10_20170226	10380372008	06914.D	03/10/2017	21:10

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 10-MAR-2017 14:46
Lab File ID: 06902.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	16.47578	0.02807	0.010	64.75784	30.00000	Line		<-
	2 1,1-Difluoroethane	0.04870	0.04984	0.04984	0.010	2.34346	30.00000	Aver		
	3 Chlorodifluoromethane	0.02414	0.02624	0.02624	0.010	8.70709	30.00000	Aver		
	4 Propylene	0.17404	0.20979	0.20979	0.010	20.53852	30.00000	Aver		
	5 Dichlorodifluoromethane	0.21985	0.23888	0.23888	0.010	8.65561	30.00000	Aver		
	6 Dichlorotetrafluoroethane	0.22303	0.23570	0.23570	0.010	5.67938	30.00000	Aver		
	7 Chloromethane	0.10311	0.10615	0.10615	0.010	2.95030	30.00000	Aver		
	8 Vinyl chloride	0.08004	0.08258	0.08258	0.010	3.16725	30.00000	Aver		
	9 1,3-Butadiene	0.05565	0.05840	0.05840	0.010	4.93340	30.00000	Aver		
	10 Bromomethane	0.08641	0.09006	0.09006	0.010	4.23332	30.00000	Aver		
	11 Chloroethane	0.03032	0.03255	0.03255	0.010	7.38535	30.00000	Aver		
	12 Ethanol	0.01535	0.02173	0.02173	0.005	41.55202	30.00000	Aver		<-
	13 Vinyl Bromide	0.08099	0.08811	0.08811	0.010	8.79021	30.00000	Aver		
	14 Isopentane	0.09580	0.09295	0.09295	0.010	-2.98053	30.00000	Aver		
	15 Freon 123	0.20267	0.21161	0.21161	0.010	4.41141	30.00000	Aver		
	16 Trichlorofluoromethane	0.23000	0.24239	0.24239	0.010	5.38874	30.00000	Aver		
	17 Acrolein	25.00000	25.44339	0.02520	0.010	1.77355	30.00000	Quad		
	18 Acetone	50.00000	56.02546	0.11562	0.010	12.05092	30.00000	Quad		
	19 Isopropyl Alcohol	0.07790	0.10076	0.10076	0.010	29.35116	30.00000	Aver		
	20 1,1-Dichloroethene	0.13698	0.14322	0.14322	0.010	4.55958	30.00000	Aver		
	21 Acrylonitrile	0.04898	0.05502	0.05502	0.010	12.32372	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.10598	0.14997	0.14997	0.010	41.51250	30.00000	Aver		<-
	22 Freon 113	0.18032	0.18908	0.18908	0.010	4.85945	30.00000	Aver		
	23 Methyl Acetate	0.19043	0.22076	0.22076	0.010	15.92661	30.00000	Aver		
	25 Methylene chloride	50.00000	53.82118	0.09480	0.010	7.64236	30.00000	Quad		
	26 Allyl Chloride	0.02168	0.02576	0.02576	0.010	18.77664	30.00000	Aver		
	27 Carbon Disulfide	0.19415	0.20505	0.20505	0.010	5.61137	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.06513	0.07359	0.07359	0.010	12.97598	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.17114	0.18909	0.18909	0.010	10.48889	30.00000	Aver		
	30 Vinyl Acetate	10.00000	10.58681	0.23859	0.010	5.86808	30.00000	Quad		
	31 1,1-Dichloroethane	0.14799	0.15426	0.15426	0.010	4.23862	30.00000	Aver		
$	32 Hexane-d14(S)	0.53088	0.52245	0.52245	0.010	-1.58815	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.03179	0.03374	0.03374	0.010	6.12289	30.00000	Aver		
	34 n-Hexane	0.11495	0.11734	0.11734	0.010	2.07563	30.00000	Aver		
	35 Di-isopropyl Ether	0.27870	0.29302	0.29302	0.010	5.13838	30.00000	Aver		
	36 cis-1,2-Dichloroethene	0.07378	0.08321	0.08321	0.010	12.77789	30.00000	Aver		
	37 Ethyl Acetate	0.18393	0.20216	0.20216	0.010	9.91096	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	25.00000	27.72681	0.23178	0.010	10.90725	30.00000	Quad		
	39 Chloroform	0.18632	0.20377	0.20377	0.010	9.36703	30.00000	Aver		
	40 Tetrahydrofuran	0.09282	0.09680	0.09680	0.010	4.28227	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.18743	0.20513	0.20513	0.010	9.44445	30.00000	Aver		
	42 1,2-Dichloroethane	0.13614	0.14514	0.14514	0.010	6.61661	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 10-MAR-2017 14:46
Lab File ID: 06902.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.22006	0.23261	0.23261	0.010	5.70486	30.00000	Aver		
	45 Carbon tetrachloride	0.17641	0.20802	0.20802	0.010	17.91670	30.00000	Aver		
	44 Cyclohexane	0.11361	0.11094	0.11094	0.010	-2.34570	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	10.42863	0.24308	0.010	4.28626	30.00000	Quad		
	48 2,2,4-Trimethylpentane	25.00000	28.63954	0.31846	0.010	14.55814	30.00000	Quad		
	49 Heptane	0.17179	0.17034	0.17034	0.010	-0.84533	30.00000	Aver		
	50 1,2-Dichloropropane	0.10137	0.10522	0.10522	0.010	3.79758	30.00000	Aver		
	51 Trichloroethene	0.12079	0.12537	0.12537	0.010	3.78843	30.00000	Aver		
	52 Methyl methacrylate	0.07981	0.08497	0.08497	0.010	6.45618	30.00000	Aver		
	53 Bromodichloromethane	0.20800	0.23086	0.23086	0.010	10.99055	30.00000	Aver		
	54 1,4-Dioxane	0.01662	0.02200	0.02200	0.010	32.41084	30.00000	Aver	(H)	<-
	55 Methylcyclohexane	0.04658	0.04680	0.04680	0.010	0.46293	30.00000	Aver		
	56 Methyl Isobutyl Ketone	25.00000	27.03296	0.22785	0.010	8.13184	30.00000	Quad		
	57 cis-1,3-Dichloropropene	0.13716	0.15340	0.15340	0.010	11.84454	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	10.63650	0.13841	0.010	6.36496	30.00000	Quad		
$	59 Toluene-d8 (S)	1.00202	1.00465	1.00465	0.010	0.26277	30.00000	Aver		
	60 Toluene	0.29562	0.30962	0.30962	0.010	4.73504	30.00000	Aver		
	61 1,1,2-Trichloroethane	0.11446	0.11934	0.11934	0.010	4.26639	30.00000	Aver		
	62 Methyl Butyl Ketone	0.23865	0.26390	0.26390	0.010	10.57984	30.00000	Aver		
	63 n-Octane	0.24816	0.25475	0.25475	0.010	2.65878	30.00000	Aver		
	64 Dibromochloromethane	0.24616	0.30133	0.30133	0.010	22.40972	30.00000	Aver		
	65 1,2-Dibromoethane	0.21282	0.23524	0.23524	0.010	10.53426	30.00000	Aver		
	66 Tetrachloroethene	0.22107	0.23249	0.23249	0.010	5.16228	30.00000	Aver		
	68 Chlorobenzene	0.26931	0.29143	0.29143	0.010	8.21565	30.00000	Aver		
	69 Ethyl Benzene	0.43877	0.46307	0.46307	0.010	5.53742	30.00000	Aver		
	70 m&p-Xylene	20.00000	22.60291	0.34252	0.010	13.01457	30.00000	Quad		
	71 Bromoform	10.00000	11.07789	0.31132	0.010	10.77886	30.00000	Quad		
	72 n-Nonane	0.22897	0.25005	0.25005	0.010	9.20678	30.00000	Aver		
	73 Styrene	0.22257	0.25618	0.25618	0.010	15.10206	30.00000	Aver		
	74 o-Xylene	0.36173	0.36607	0.36607	0.010	1.19765	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.24035	0.26303	0.26303	0.010	9.43767	30.00000	Aver		
	76 Isopropylbenzene	0.44783	0.46019	0.46019	0.010	2.76154	30.00000	Aver		
	77 N-Propylbenzene	0.47101	0.53928	0.53928	0.010	14.49540	30.00000	Aver		
	78 4-Ethyltoluene	0.38527	0.43562	0.43562	0.010	13.06940	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	10.00000	11.06365	0.37234	0.010	10.63646	30.00000	Quad		
	80 n-Decane	0.16252	0.17623	0.17623	0.010	8.43445	30.00000	Aver		
	81 Tert-Butyl Benzene	0.35493	0.38234	0.38234	0.010	7.72128	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	10.00000	11.08474	0.36236	0.010	10.84741	30.00000	Quad		
	83 1,3-Dichlorobenzene	0.23428	0.25837	0.25837	0.010	10.28511	30.00000	Aver	(M)	
	84 Sec- Butylbenzene	0.44065	0.50325	0.50325	0.010	14.20694	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.61269	0.65248	0.65248	0.010	6.49410	30.00000	Aver		
	86 Benzyl Chloride	0.24404	0.27804	0.27804	0.010	13.93379	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031017.b\06902.d
Report Date: 13-Mar-2017 11:05

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 10-MAR-2017 14:46
Lab File ID: 06902.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031017.b\TO15_068-17.m

			CCAL	MIN		MAX	CURVE	QC	
COMPOUND	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	TYPE	FLAGS	
87 1,4-Dichlorobenzene	0.24462	0.25412	0.25412	0.010	3.88225	30.00000	Aver		
88 p-Isopropyltoluene	0.39245	0.44511	0.44511	0.010	13.41748	30.00000	Aver		
89 1,2,3-Trimethylbenzene	0.30707	0.34984	0.34984	0.010	13.92810	30.00000	Aver		
90 1,2-Dichlorobenzene	0.21704	0.23632	0.23632	0.010	8.87950	30.00000	Aver		
91 N-Butylbenzene	0.32199	0.37660	0.37660	0.010	16.95968	30.00000	Aver		
92 1,2-Dibromo-3-Chloropropane	0.04958	0.07721	0.07721	0.010	55.72743	30.00000	Aver		<-
93 1,2,4-Trichlorobenzene	0.05837	0.09068	0.09068	0.010	55.34622	30.00000	Aver		<-
94 Naphthalene	0.10479	0.16416	0.16416	0.010	56.65767	30.00000	Aver		<-
95 Hexachlorobutadiene	0.08712	0.11307	0.11307	0.010	29.78143	30.00000	Aver		

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 11.75415
Maximun Average %D/Drift = 0.000e+000
* Failed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 07002BFB.D BFB Injection Date: 03/11/2017
Instrument ID: 10AIRD BFB Injection Time: 10:37
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	28.58	
75	30.00 - 66.00% of mass 95	51.71	
96	5.00 - 9.00% of mass 95	7.09	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	103.35	
175	4.00 - 9.00% of mass 174	8.72	(8.43)
176	93.00 - 101.00% of mass 174	98.39	(95.20)
177	5.00 - 9.00% of mass 176	7.40	(7.52)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 463593 [AIR/27878]	2534981	07002L.D	03/11/2017	10:37
2	CCV	CCV	07002.D	03/11/2017	10:37
3	CERT	CERT	07005.D	03/11/2017	12:24
4	BLANK for HBN 463593 [AIR/2787	2534980	07006L.D	03/11/2017	13:09
5	VP-103_5_20170226 RE MeCl ONLY	10380372007	07007.D	03/11/2017	14:44
6	VP-102_51.5_20170226 TCE	10380372003	07008.D	03/11/2017	15:07
7	VP-102_57.5_20170226 TCE	10380372004	07009.D	03/11/2017	15:31
8	VP-102_61.5_20170226 TCE	10380372005	07010.D	03/11/2017	15:54
9	VP-103_30_20170226	10380372010	07011.D	03/11/2017	16:24
10	VP-103_20_20170226	10380372009	07013.D	03/11/2017	17:23
11	VP-103_40_20170226	10380372011	07014.D	03/11/2017	17:51
12	VP-103_50_20170226	10380372012	07015.D	03/11/2017	18:19
13	VP-103_61.5_20170226	10380372013	07016.D	03/11/2017	18:50
14	VP-103_74.5_20170226	10380372014	07022.D	03/11/2017	21:23
15	LIJ-VP-7_5_20170226	10380372015	07023.D	03/11/2017	21:54
16	LIJ-VP-7_10_20170226	10380372016	07024.D	03/11/2017	22:22
17	LIJ-VP-7_20_20170226	10380372017	07025.D	03/11/2017	22:49
18	LIJ-VP-7_40_20170226	10380372018	07026.D	03/11/2017	23:18
19	LIJ-VP-7_50_20170226	10380372019	07027.D	03/11/2017	23:46
20	LIJ-VP-7_50_20170226DUP	10380372020	07028.D	03/12/2017	00:14
21	VP-102_73.5_20170226DUP	10380372021	07029.D	03/12/2017	00:43
22	VP-102_8.5_20170226 not used	10380372001	07030.D	03/12/2017	01:16

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 11-MAR-2017 10:37
Lab File ID: 07002.D Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	5.96962	0.01018	0.010	-40.30381	30.00000	Line		<-
	2 1,1-Difluoroethane	0.04870	0.05361	0.05361	0.010	10.09144	30.00000	Aver		
	3 Chlorodifluoromethane	0.02414	0.02882	0.02882	0.010	19.37791	30.00000	Aver		
	4 Propylene	0.17404	0.22252	0.22252	0.010	27.85645	30.00000	Aver		
	5 Dichlorodifluoromethane	0.21985	0.26717	0.26717	0.010	21.52026	30.00000	Aver		
	6 Dichlorotetrafluoroethane	0.22303	0.26001	0.26001	0.010	16.58069	30.00000	Aver		
	7 Chloromethane	0.10311	0.11362	0.11362	0.010	10.19463	30.00000	Aver		
	8 Vinyl chloride	0.08004	0.08774	0.08774	0.010	9.61286	30.00000	Aver		
	9 1,3-Butadiene	0.05565	0.06278	0.06278	0.010	12.80817	30.00000	Aver		
	10 Bromomethane	0.08641	0.09816	0.09816	0.010	13.60901	30.00000	Aver		
	11 Chloroethane	0.03032	0.03543	0.03543	0.010	16.85666	30.00000	Aver		
	12 Ethanol	0.01535	0.02019	0.02019	0.005	31.52003	30.00000	Aver	(H)	<-
	13 Vinyl Bromide	0.08099	0.09575	0.09575	0.010	18.22318	30.00000	Aver		
	14 Isopentane	0.09580	0.10114	0.10114	0.010	5.57122	30.00000	Aver	(H)	
	15 Freon 123	0.20267	0.23125	0.23125	0.010	14.10120	30.00000	Aver		
	16 Trichlorofluoromethane	0.23000	0.27445	0.27445	0.010	19.32767	30.00000	Aver	(H)	
	17 Acrolein	25.00000	28.37430	0.02810	0.010	13.49718	30.00000	Quad		
	18 Acetone	50.00000	64.52064	0.12899	0.010	29.04127	30.00000	Quad		
	19 Isopropyl Alcohol	0.07790	0.09501	0.09501	0.010	21.96990	30.00000	Aver	(H)	
	20 1,1-Dichloroethene	0.13698	0.15784	0.15784	0.010	15.23280	30.00000	Aver		
	21 Acrylonitrile	0.04898	0.06211	0.06211	0.010	26.80789	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.10598	0.15145	0.15145	0.010	42.90121	30.00000	Aver	(H)	<-
	22 Freon 113	0.18032	0.20890	0.20890	0.010	15.85126	30.00000	Aver		
	23 Methyl Acetate	0.19043	0.23915	0.23915	0.010	25.58517	30.00000	Aver		
	25 Methylene chloride	50.00000	61.38723	0.10557	0.010	22.77446	30.00000	Quad	(H)	
	26 Allyl Chloride	0.02168	0.02914	0.02914	0.010	34.38896	30.00000	Aver	(H)	<-
	27 Carbon Disulfide	0.19415	0.22599	0.22599	0.010	16.39881	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.06513	0.08059	0.08059	0.010	23.72166	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.17114	0.20095	0.20095	0.010	17.41719	30.00000	Aver		
	30 Vinyl Acetate	10.00000	11.59507	0.26016	0.010	15.95073	30.00000	Quad		
	31 1,1-Dichloroethane	0.14799	0.16914	0.16914	0.010	14.29365	30.00000	Aver		
$	32 Hexane-d14(S)	0.53088	0.51403	0.51403	0.010	-3.17450	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.03179	0.03648	0.03648	0.010	14.74566	30.00000	Aver	(H)	
	34 n-Hexane	0.11495	0.12768	0.12768	0.010	11.07269	30.00000	Aver		
	35 Di-isopropyl Ether	0.27870	0.31232	0.31232	0.010	12.06340	30.00000	Aver		
	36 cis-1,2-Dichloroethene	0.07378	0.08954	0.08954	0.010	21.36754	30.00000	Aver		
	37 Ethyl Acetate	0.18393	0.21938	0.21938	0.010	19.27489	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	25.00000	29.93605	0.24642	0.010	19.74419	30.00000	Quad		
	39 Chloroform	0.18632	0.22513	0.22513	0.010	20.82802	30.00000	Aver		
	40 Tetrahydrofuran	0.09282	0.10471	0.10471	0.010	12.80630	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.18743	0.22861	0.22861	0.010	21.97121	30.00000	Aver		
	42 1,2-Dichloroethane	0.13614	0.16301	0.16301	0.010	19.74119	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 11-MAR-2017 10:37
Lab File ID: 07002.D Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.22006	0.25393	0.25393	0.010	15.39020	30.00000	Aver		
	45 Carbon tetrachloride	0.17641	0.23440	0.23440	0.010	32.86811	30.00000	Aver		<-
	44 Cyclohexane	0.11361	0.12176	0.12176	0.010	7.17415	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.36007	0.26221	0.010	13.60066	30.00000	Quad		
	48 2,2,4-Trimethylpentane	25.00000	30.09962	0.33066	0.010	20.39846	30.00000	Quad		
	49 Heptane	0.17179	0.18071	0.18071	0.010	5.19310	30.00000	Aver		
	50 1,2-Dichloropropane	0.10137	0.11234	0.11234	0.010	10.81971	30.00000	Aver		
	51 Trichloroethene	0.12079	0.14218	0.14218	0.010	17.70356	30.00000	Aver		
	52 Methyl methacrylate	0.07981	0.09148	0.09148	0.010	14.62313	30.00000	Aver		
	53 Bromodichloromethane	0.20800	0.25822	0.25822	0.010	24.14013	30.00000	Aver		
	54 1,4-Dioxane	0.01662	0.01867	0.01867	0.010	12.33095	30.00000	Aver		
	55 Methylcyclohexane	0.04658	0.05009	0.05009	0.010	7.52408	30.00000	Aver		
	56 Methyl Isobutyl Ketone	25.00000	28.81954	0.24026	0.010	15.27815	30.00000	Quad		
	57 cis-1,3-Dichloropropene	0.13716	0.16359	0.16359	0.010	19.27344	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	11.63877	0.15181	0.010	16.38770	30.00000	Quad		
$	59 Toluene-d8 (S)	1.00202	0.98668	0.98668	0.010	-1.53129	30.00000	Aver		
	60 Toluene	0.29562	0.32715	0.32715	0.010	10.66501	30.00000	Aver		
	61 1,1,2-Trichloroethane	0.11446	0.12708	0.12708	0.010	11.01992	30.00000	Aver		
	62 Methyl Butyl Ketone	0.23865	0.28858	0.28858	0.010	20.92425	30.00000	Aver		
	63 n-Octane	0.24816	0.27685	0.27685	0.010	11.56426	30.00000	Aver		
	64 Dibromochloromethane	0.24616	0.33152	0.33152	0.010	34.67556	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.21282	0.26351	0.26351	0.010	23.81479	30.00000	Aver		
	66 Tetrachloroethene	0.22107	0.26326	0.26326	0.010	19.08247	30.00000	Aver		
	68 Chlorobenzene	0.26931	0.31638	0.31638	0.010	17.47820	30.00000	Aver		
	69 Ethyl Benzene	0.43877	0.50244	0.50244	0.010	14.51173	30.00000	Aver		
	70 m&p-Xylene	20.00000	25.08373	0.37355	0.010	25.41866	30.00000	Quad		
	71 Bromoform	10.00000	12.26234	0.34392	0.010	22.62337	30.00000	Quad		
	72 n-Nonane	0.22897	0.28217	0.28217	0.010	23.23567	30.00000	Aver		
	73 Styrene	0.22257	0.28676	0.28676	0.010	28.84273	30.00000	Aver		
	74 o-Xylene	0.36173	0.39701	0.39701	0.010	9.75219	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.24035	0.28939	0.28939	0.010	20.40376	30.00000	Aver		
	76 Isopropylbenzene	0.44783	0.51196	0.51196	0.010	14.32098	30.00000	Aver		
	77 N-Propylbenzene	0.47101	0.58650	0.58650	0.010	24.52113	30.00000	Aver		
	78 4-Ethyltoluene	0.38527	0.48438	0.48438	0.010	25.72444	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	10.00000	12.06756	0.40390	0.010	20.67561	30.00000	Quad		
	80 n-Decane	0.16252	0.18624	0.18624	0.010	14.59443	30.00000	Aver		
	81 Tert-Butyl Benzene	0.35493	0.40599	0.40599	0.010	14.38489	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	10.00000	11.84005	0.38517	0.010	18.40047	30.00000	Quad		
	83 1,3-Dichlorobenzene	0.23428	0.27539	0.27539	0.010	17.54682	30.00000	Aver	(M)	
	84 Sec- Butylbenzene	0.44065	0.53415	0.53415	0.010	21.21887	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.61269	0.64831	0.64831	0.010	5.81371	30.00000	Aver		
	86 Benzyl Chloride	0.24404	0.29503	0.29503	0.010	20.89724	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031117.b\07002.D
Report Date: 13-Mar-2017 10:57

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 11-MAR-2017 10:37
Lab File ID: 07002.D Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031117.b\TO15_068-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.24462	0.26662	0.26662	0.010	8.99422	30.00000	Aver		
88 p-Isopropyltoluene	0.39245	0.47708	0.47708	0.010	21.56407	30.00000	Aver		
89 1,2,3-Trimethylbenzene	0.30707	0.36831	0.36831	0.010	19.94120	30.00000	Aver		
90 1,2-Dichlorobenzene	0.21704	0.24713	0.24713	0.010	13.86156	30.00000	Aver		
91 N-Butylbenzene	0.32199	0.40960	0.40960	0.010	27.20877	30.00000	Aver		
92 1,2-Dibromo-3-Chloropropane	0.04958	0.08475	0.08475	0.010	70.93308	30.00000	Aver		<-
93 1,2,4-Trichlorobenzene	0.05837	0.09841	0.09841	0.010	68.59269	30.00000	Aver		<-
94 Naphthalene	0.10479	0.17884	0.17884	0.010	70.66635	30.00000	Aver		<-
95 Hexachlorobutadiene	0.08712	0.12042	0.12042	0.010	38.21872	30.00000	Aver		<-

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 20.06995
Maximun Average %D/Drift = 0.000e+000
* Failed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 07101BFB.D BFB Injection Date: 03/12/2017
Instrument ID: 10AIRD BFB Injection Time: 09:41
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.91	
75	30.00 - 66.00% of mass 95	50.04	
96	5.00 - 9.00% of mass 95	6.73	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	113.23	
175	4.00 - 9.00% of mass 174	9.31	(8.22)
176	93.00 - 101.00% of mass 174	110.42	(97.52)
177	5.00 - 9.00% of mass 176	7.68	(6.96)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	07102.D	03/12/2017	10:04
2	IC	IC	07105.D	03/12/2017	12:32
3	LIJ-VP-7_50_20170226DUP RE TCE ONLY	10380372020	07108.D	03/12/2017	14:10
4	VP-103_50_20170226 TCE	10380372012	07109.D	03/12/2017	14:34
5	VP-103_40_20170226 TCE	10380372011	07110.D	03/12/2017	14:58
6	VP-103_30_20170226 MeCl	10380372010	07111.D	03/12/2017	15:21
7	LIJ-VP-7_5_20170226 MeCl	10380372015	07112.D	03/12/2017	15:44
8	VP-103_74.5_20170226 MeCl	10380372014	07114.D	03/12/2017	16:30
9	LIJ-VP-7_20_20170226 TCE, PCE	10380372017	07115.D	03/12/2017	16:52
10	LIJ-VP-7_50_20170226 TCE,PCE, cis-1,2	10380372019	07117.D	03/12/2017	17:38
11	LIJ-VP-7_40_20170226 TCE,PCE,cis-1,2	10380372018	07118.D	03/12/2017	18:01

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 12-MAR-2017 10:04
Lab File ID: 07102.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	5.33401	0.00910	0.010	-46.65993	30.00000	Line		<-
	2 1,1-Difluoroethane	0.04870	0.05176	0.05176	0.010	6.29446	30.00000	Aver		
	3 Chlorodifluoromethane	0.02414	0.02803	0.02803	0.010	16.11942	30.00000	Aver	(H)	
	4 Propylene	0.17404	0.22196	0.22196	0.010	27.52985	30.00000	Aver		
	5 Dichlorodifluoromethane	0.21985	0.26148	0.26148	0.010	18.93430	30.00000	Aver		
	6 Dichlorotetrafluoroethane	0.22303	0.25579	0.25579	0.010	14.68994	30.00000	Aver		
	7 Chloromethane	0.10311	0.11213	0.11213	0.010	8.74853	30.00000	Aver		
	8 Vinyl chloride	0.08004	0.08689	0.08689	0.010	8.56157	30.00000	Aver		
	9 1,3-Butadiene	0.05565	0.06145	0.06145	0.010	10.41911	30.00000	Aver		
	10 Bromomethane	0.08641	0.09560	0.09560	0.010	10.63769	30.00000	Aver		
	11 Chloroethane	0.03032	0.03346	0.03346	0.010	10.36518	30.00000	Aver		
	12 Ethanol	0.01535	0.02249	0.02249	0.005	46.46798	30.00000	Aver		<-
	13 Vinyl Bromide	0.08099	0.09338	0.09338	0.010	15.29440	30.00000	Aver		
	14 Isopentane	0.09580	0.09774	0.09774	0.010	2.02138	30.00000	Aver		
	15 Freon 123	0.20267	0.22846	0.22846	0.010	12.72290	30.00000	Aver		
	16 Trichlorofluoromethane	0.23000	0.26129	0.26129	0.010	13.60507	30.00000	Aver		
	17 Acrolein	25.00000	27.00312	0.02675	0.010	8.01249	30.00000	Quad		
	18 Acetone	50.00000	62.24071	0.12550	0.010	24.48143	30.00000	Quad		
	19 Isopropyl Alcohol	0.07790	0.10720	0.10720	0.010	37.61705	30.00000	Aver		<-
	20 1,1-Dichloroethene	0.13698	0.15591	0.15591	0.010	13.81980	30.00000	Aver		
	21 Acrylonitrile	0.04898	0.06024	0.06024	0.010	22.98266	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.10598	0.15963	0.15963	0.010	50.62230	30.00000	Aver		<-
	22 Freon 113	0.18032	0.20253	0.20253	0.010	12.32104	30.00000	Aver		
	23 Methyl Acetate	0.19043	0.23324	0.23324	0.010	22.47979	30.00000	Aver		
	25 Methylene chloride	50.00000	58.65558	0.10175	0.010	17.31117	30.00000	Quad		
	26 Allyl Chloride	0.02168	0.02840	0.02840	0.010	30.96053	30.00000	Aver		<-
	27 Carbon Disulfide	0.19415	0.21863	0.21863	0.010	12.60876	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.06513	0.07857	0.07857	0.010	20.63231	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.17114	0.20154	0.20154	0.010	17.76558	30.00000	Aver		
	30 Vinyl Acetate	10.00000	11.21917	0.25215	0.010	12.19174	30.00000	Quad		
	31 1,1-Dichloroethane	0.14799	0.16440	0.16440	0.010	11.09289	30.00000	Aver		
$	32 Hexane-d14(S)	0.53088	0.48722	0.48722	0.010	-8.22460	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.03179	0.03610	0.03610	0.010	13.53069	30.00000	Aver		
	34 n-Hexane	0.11495	0.12493	0.12493	0.010	8.67414	30.00000	Aver		
	35 Di-isopropyl Ether	0.27870	0.31403	0.31403	0.010	12.67726	30.00000	Aver		
	36 cis-1,2-Dichloroethene	0.07378	0.08685	0.08685	0.010	17.72075	30.00000	Aver		
	37 Ethyl Acetate	0.18393	0.21476	0.21476	0.010	16.76298	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	25.00000	30.11566	0.24759	0.010	20.46264	30.00000	Quad		
	39 Chloroform	0.18632	0.21748	0.21748	0.010	16.72271	30.00000	Aver		
	40 Tetrahydrofuran	0.09282	0.10161	0.10161	0.010	9.47135	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.18743	0.21843	0.21843	0.010	16.53882	30.00000	Aver		
	42 1,2-Dichloroethane	0.13614	0.15319	0.15319	0.010	12.52626	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 12-MAR-2017 10:04
Lab File ID: 07102.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.22006	0.24979	0.24979	0.010	13.51243	30.00000	Aver		
	45 Carbon tetrachloride	0.17641	0.22260	0.22260	0.010	26.18182	30.00000	Aver		
	44 Cyclohexane	0.11361	0.11807	0.11807	0.010	3.93237	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	10.85962	0.25195	0.010	8.59617	30.00000	Quad		
	48 2,2,4-Trimethylpentane	25.00000	32.05143	0.34642	0.010	28.20571	30.00000	Quad		
	49 Heptane	0.17179	0.18130	0.18130	0.010	5.53975	30.00000	Aver		
	50 1,2-Dichloropropane	0.10137	0.11207	0.11207	0.010	10.55908	30.00000	Aver		
	51 Trichloroethene	0.12079	0.13618	0.13618	0.010	12.73752	30.00000	Aver		
	52 Methyl methacrylate	0.07981	0.09131	0.09131	0.010	14.40687	30.00000	Aver		
	53 Bromodichloromethane	0.20800	0.24910	0.24910	0.010	19.75599	30.00000	Aver		
	54 1,4-Dioxane	0.01662	0.02426	0.02426	0.010	46.00572	30.00000	Aver		<-
	55 Methylcyclohexane	0.04658	0.04903	0.04903	0.010	5.25110	30.00000	Aver		
	56 Methyl Isobutyl Ketone	25.00000	29.57796	0.24543	0.010	18.31183	30.00000	Quad		
	57 cis-1,3-Dichloropropene	0.13716	0.16070	0.16070	0.010	17.16665	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	11.03640	0.14375	0.010	10.36402	30.00000	Quad		
$	59 Toluene-d8 (S)	1.00202	0.97933	0.97933	0.010	-2.26465	30.00000	Aver		
	60 Toluene	0.29562	0.32904	0.32904	0.010	11.30594	30.00000	Aver		
	61 1,1,2-Trichloroethane	0.11446	0.12777	0.12777	0.010	11.62843	30.00000	Aver		
	62 Methyl Butyl Ketone	0.23865	0.30538	0.30538	0.010	27.96430	30.00000	Aver		
	63 n-Octane	0.24816	0.28948	0.28948	0.010	16.65374	30.00000	Aver		
	64 Dibromochloromethane	0.24616	0.35099	0.35099	0.010	42.58362	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.21282	0.27581	0.27581	0.010	29.59572	30.00000	Aver		
	66 Tetrachloroethene	0.22107	0.27859	0.27859	0.010	26.01580	30.00000	Aver		
	68 Chlorobenzene	0.26931	0.33335	0.33335	0.010	23.77881	30.00000	Aver		
	69 Ethyl Benzene	0.43877	0.54109	0.54109	0.010	23.32060	30.00000	Aver		
	70 m&p-Xylene	20.00000	26.53040	0.39106	0.010	32.65201	30.00000	Quad		<-
	71 Bromoform	10.00000	13.32907	0.37306	0.010	33.29075	30.00000	Quad		<-
	72 n-Nonane	0.22897	0.29219	0.29219	0.010	27.60993	30.00000	Aver		
	73 Styrene	0.22257	0.30003	0.30003	0.010	34.80438	30.00000	Aver		<-
	74 o-Xylene	0.36173	0.42577	0.42577	0.010	17.70112	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.24035	0.30584	0.30584	0.010	27.24701	30.00000	Aver		
	76 Isopropylbenzene	0.44783	0.55163	0.55163	0.010	23.17819	30.00000	Aver		
	77 N-Propylbenzene	0.47101	0.62584	0.62584	0.010	32.87237	30.00000	Aver		<-
	78 4-Ethyltoluene	0.38527	0.50524	0.50524	0.010	31.14057	30.00000	Aver		<-
	79 1,3,5-Trimethylbenzene	10.00000	12.93276	0.43081	0.010	29.32764	30.00000	Quad		
	80 n-Decane	0.16252	0.17368	0.17368	0.010	6.86599	30.00000	Aver		
	81 Tert-Butyl Benzene	0.35493	0.42665	0.42665	0.010	20.20597	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	10.00000	12.69683	0.41080	0.010	26.96831	30.00000	Quad		
	83 1,3-Dichlorobenzene	0.23428	0.28377	0.28377	0.010	21.12745	30.00000	Aver	(M)	
	84 Sec- Butylbenzene	0.44065	0.56681	0.56681	0.010	28.63064	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.61269	0.58881	0.58881	0.010	-3.89691	30.00000	Aver		
	86 Benzyl Chloride	0.24404	0.29221	0.29221	0.010	19.73856	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\031217.b\07102.d
Report Date: 13-Mar-2017 10:55

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 12-MAR-2017 10:04
Lab File ID: 07102.d Init. Cal. Date(s): 09-MAR-2017 10-MAR-2017
Analysis Type: AIR Init. Cal. Times: 18:27 09:35
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airD.i\031217.b\TO15_068-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.24462	0.27781	0.27781	0.010	13.56734	30.00000	Aver		
88 p-Isopropyltoluene	0.39245	0.50394	0.50394	0.010	28.40870	30.00000	Aver		
89 1,2,3-Trimethylbenzene	0.30707	0.39175	0.39175	0.010	27.57506	30.00000	Aver		
90 1,2-Dichlorobenzene	0.21704	0.26288	0.26288	0.010	21.11731	30.00000	Aver		
91 N-Butylbenzene	0.32199	0.43533	0.43533	0.010	35.19821	30.00000	Aver		<-
92 1,2-Dibromo-3-Chloropropane	0.04958	0.09072	0.09072	0.010	82.97849	30.00000	Aver		<-
93 1,2,4-Trichlorobenzene	0.05837	0.10414	0.10414	0.010	78.40410	30.00000	Aver		<-
94 Naphthalene	0.10479	0.20050	0.20050	0.010	91.33797	30.00000	Aver		<-
95 Hexachlorobutadiene	0.08712	0.12981	0.12981	0.010	49.00428	30.00000	Aver		<-

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 21.91152
Maximun Average %D/Drift = 0.000e+000
* Failed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10380372
Lab File ID: 07201.D BFB Injection Date: 03/13/2017
Instrument ID: 10AIRD BFB Injection Time: 07:38
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.06	
75	30.00 - 66.00% of mass 95	50.10	
96	5.00 - 9.00% of mass 95	6.77	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	114.14	
175	4.00 - 9.00% of mass 174	9.34	(8.18)
176	93.00 - 101.00% of mass 174	110.53	(96.84)
177	5.00 - 9.00% of mass 176	7.66	(6.93)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	07205.D	03/13/2017	09:58
2	CAL2	CAL2	07206.D	03/13/2017	10:21
3	CAL3	CAL3	07207.D	03/13/2017	10:45
4	CAL4	CAL4	07208.D	03/13/2017	11:11
5	CAL5	CAL5	07209.D	03/13/2017	11:34
6	CAL6	CAL6	07210.D	03/13/2017	11:59
7	CAL7	CAL7	07211.D	03/13/2017	12:24
8	ICV	ICV	07213.D	03/13/2017	13:11
9	IC	IC	07215.D	03/13/2017	14:15
10	VP-103_61.5_20170226 MeCl	10380372013	07220.D	03/13/2017	17:03

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airD.i\031317.b\07205.d
Level 02: all \\192.168.10.12\chem\10airD.i\031317.b\07206.d
Level 03: all \\192.168.10.12\chem\10airD.i\031317.b\07207.d
Level 04: all \\192.168.10.12\chem\10airD.i\031317.b\07208.d
Level 05: all \\192.168.10.12\chem\10airD.i\031317.b\07209.d
Level 06: all \\192.168.10.12\chem\10airD.i\031317.b\07210.d
Level 07: all \\192.168.10.12\chem\10airD.i\031317.b\07211.d

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 1,1-Difluoroethane	0.04117	0.05253	0.05471	0.05253	0.05166	0.05099	0.05009	AVRG		0.05053		8.65293
3 Chlorodifluoromethane	0.02101	0.02709	0.02929	0.02907	0.02855	0.02746	0.02658	AVRG		0.02701		10.49180
4 Propylene	0.13956	0.15848	0.17330	0.17425	0.21436	0.19092	0.16666	AVRG		0.17393		13.67929

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Dichlorodifluoromethane	0.23862	0.27290	0.27013	0.28281	0.26418	0.22918	0.19418	AVRG		0.25028		12.51291
6 Dichlorotetrafluoroethane	0.23555	0.25151	0.26842	0.27992	0.25253	0.22680	0.19582	AVRG		0.24436		11.45814
7 Chloromethane	0.10261	0.11440	0.11592	0.11676	0.10880	0.10415	0.09805	AVRG		0.10867		6.72813
8 Vinyl chloride	0.07979	0.07732	0.08223	0.08924	0.08571	0.08339	0.08220	AVRG		0.08284		4.67552
9 1,3-Butadiene	0.04571	0.05245	0.05728	0.06215	0.05804	0.05799	0.05797	AVRG		0.05594		9.51174
10 Bromomethane	0.08948	0.09321	0.09625	0.09967	0.09598	0.09226	0.09186	AVRG		0.09410		3.62273
11 Chloroethane	0.03210	0.02769	0.03371	0.03673	0.03350	0.03290	0.03260	AVRG		0.03275		8.21322

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.02489	0.02195	0.02087	0.02197	0.02306	0.02317						
	0.02102							AVRG		0.02242		6.26491
13 Vinyl Bromide	0.07996	0.08722	0.08562	0.09179	0.09137	0.09005						
	0.08759							AVRG		0.08766		4.65993
14 Isopentane	0.10394	0.09507	0.10541	0.10645	0.09397	0.09022						
	0.09093							AVRG		0.09800		7.17664
15 Freon 123	0.20018	0.22206	0.22755	0.24054	0.22443	0.22018						
	0.21325							AVRG		0.22117		5.63465
16 Trichlorofluoromethane	0.24312	0.25429	0.27684	0.28962	0.26903	0.24738						
	0.21804							AVRG		0.25690		9.28386
17 Acrolein	864	1583	4599	12779	182332	382883						
	589652							QUAD	-0.00118	0.02556	0.00002	0.99994
18 Acetone	19240	39882	102087	231236	1796583	3033893						
	3829989							QUAD	0.00313	0.14006	-0.00384	0.99984

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	0.13503	0.11684	0.11833	0.11879	0.10867	0.09803					
	0.08153						AVRG		0.11103		15.46071
20 1,1-Dichloroethene	0.12711	0.14713	0.15193	0.16338	0.15395	0.14904					
	0.14170						AVRG		0.14775		7.64221
21 Acrylonitrile	2666	5447	17290	40859	418890	851232					
	1269703						QUAD	-0.00111	0.05988	-0.00063	0.99998
24 Tert Butyl Alcohol (TBA)	0.15149	0.15917	0.15958	0.16681	0.15673	0.14565					
	0.12637						AVRG		0.15225		8.67851
22 Freon 113	0.15798	0.20946	0.20641	0.21818	0.20243	0.19440					
	0.18146						AVRG		0.19576		10.38946
23 Methyl Acetate	0.20683	0.20046	0.21090	0.21844	0.22963	0.21530					
	0.19919						AVRG		0.21154		5.05826
25 Methylene chloride	0.10310	0.10572	0.11053	0.11501	0.10072	0.08526					
	0.07316						AVRG		0.09907		14.91860

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Allyl Chloride	+++++	2528	6267	13039	204575	401774	608566	QUAD	-0.00140	0.02888	-0.00032	0.99983
27 Carbon Disulfide	0.20018	0.19379	0.21446	0.22578	0.21602	0.21072	0.19842	AVRG		0.20848		5.47970
28 trans-1,2-dichloroethene	0.05325	0.06235	0.07365	0.07702	0.07559	0.07813	0.07730	AVRG		0.07104		13.41296
29 Methyl Tert Butyl Ether	0.18166	0.19496	0.21266	0.22309	0.20239	0.17503	0.14678	AVRG		0.19094		13.42402
30 Vinyl Acetate	+++++	6679	16963	37067	707062	1441821	2052527	QUAD	-0.00897	0.27281	-0.01567	0.99965
31 1,1-Dichloroethane	0.13519	0.14948	0.16007	0.17349	0.15997	0.16027	0.15367	AVRG		0.15602		7.57209
33 Methyl Ethyl Ketone	+++++	0.03111	0.03297	0.03765	0.03412	0.03540	0.03398	AVRG		0.03420		6.46785

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
34 n-Hexane	0.10336	0.10901	0.11802	0.12696	0.11995	0.12194					
	0.11536						AVRG		0.11637		6.86771
35 Di-isopropyl Ether	0.26537	0.28681	0.30597	0.31391	0.30065	0.28920					
	0.26745						AVRG		0.28991		6.40059
36 cis-1,2-Dichloroethene	0.05922	0.07389	0.07888	0.08392	0.08679	0.08780					
	0.08770						AVRG		0.07974		13.06751
37 Ethyl Acetate	0.17742	0.18499	0.19185	0.19654	0.20727	0.20485					
	0.19416						AVRG		0.19387		5.41319
38 Ethyl Tert-Butyl Ether	0.22830	0.24615	0.26126	0.28062	0.24832	0.20671					
	0.17171						AVRG		0.23472		15.48137
39 Chloroform	0.17933	0.19664	0.22450	0.22620	0.21820	0.20617					
	0.19363						AVRG		0.20638		8.50857
40 Tetrahydrofuran	0.08429	0.09067	0.09707	0.10503	0.09634	0.09659					
	0.09664						AVRG		0.09523		6.70869

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
41 1,1,1-Trichloroethane	0.17657	0.20563	0.21862	0.23317	0.22025	0.21514					
	0.20877						AVRG		0.21116		8.36335
42 1,2-Dichloroethane	0.12953	0.15254	0.14828	0.16111	0.15436	0.15317					
	0.15004						AVRG		0.14986		6.56512
43 Benzene	0.21860	0.22665	0.25402	0.24326	0.24294	0.23355					
	0.22622						AVRG		0.23503		5.24259
45 Carbon tetrachloride	0.19028	0.17620	0.19742	0.20132	0.22759	0.21725					
	0.21075						AVRG		0.20297		8.48966
44 Cyclohexane	0.11459	0.11515	0.12753	0.13848	0.11419	0.11126					
	0.11148						AVRG		0.11895		8.58711
46 Tert Amyl Methyl Ether	+++++	55888	80740	116973	743003	1446208					
	2157269						QUAD	0.01526	0.24418	-0.00531	0.99999
48 2,2,4-Trimethylpentane	29221	63594	163716	341712	2491601	3936779					
	4948614						QUAD	0.01193	0.37912	-0.02242	0.99891

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
49 Heptane	0.15610	0.18387	0.19088	0.19847	0.17116	0.16905							
	0.16525							AVRG		0.17640		8.56682	
50 1,2-Dichloropropane	0.09811	0.10977	0.10823	0.11255	0.10800	0.10600							
	0.10545							AVRG		0.10687		4.24196	
51 Trichloroethene	0.12008	0.14202	0.14141	0.14860	0.13656	0.13457							
	0.13207							AVRG		0.13648		6.64951	
52 Methyl methacrylate	0.06802	0.07227	0.07658	0.08777	0.08870	0.08862							
	0.08911							AVRG		0.08158		11.08731	
53 Bromodichloromethane	0.19134	0.22028	0.22575	0.23712	0.25330	0.24503							
	0.23049							AVRG		0.22904		8.76858	
54 1,4-Dioxane	1204	1175	3857	8154	70596	165559							
	214543							QUAD	-0.00044	0.03053	-0.00226	0.99459	<-
55 Methylcyclohexane	0.03708	0.04456	0.05061	0.05453	0.04929	0.04916							
	0.04832							AVRG		0.04765		11.58527	

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
56 Methyl Isobutyl Ketone	0.20303	0.21563	0.23946	0.25539	0.23998	0.20461					
	0.17318						AVRG		0.21875		12.86926
57 cis-1,3-Dichloropropene	0.12540	0.13470	0.14251	0.15006	0.15835	0.15888					
	0.15616						AVRG		0.14658		8.80720
58 trans-1,3-Dichloropropene	0.10971	0.10781	0.11117	0.12052	0.14679	0.15012					
	0.14863						AVRG		0.12782		15.47968
60 Toluene	0.28921	0.32534	0.32605	0.33639	0.32931	0.30856					
	0.28556						AVRG		0.31434		6.44336
61 1,1,2-Trichloroethane	0.11162	0.12879	0.12518	0.12867	0.12782	0.12425					
	0.12228						AVRG		0.12409		4.84741
62 Methyl Butyl Ketone	+++++	27468	79867	172373	1672188	3059905					
	4075929						QUAD	-0.00624	0.35504	-0.01451	0.99996
63 n-Octane	0.25940	0.29339	0.31744	0.32632	0.29362	0.28654					
	0.27871						AVRG		0.29363		7.71707

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
64 Dibromochloromethane	+++++	10425	28960	62995	795255	1618903	2360022	QUAD	-0.00741	0.40348	-0.01512	0.99982
65 1,2-Dibromoethane	0.22711	0.24920	0.26416	0.28428	0.28861	0.29427	0.28686	AVRG		0.27064		9.20896
66 Tetrachloroethene	0.26282	0.28580	0.31181	0.32846	0.29246	0.29024	0.28030	AVRG		0.29313		7.29456
68 Chlorobenzene	0.30699	0.33962	0.35558	0.36927	0.35188	0.34635	0.33102	AVRG		0.34296		5.81944
69 Ethyl Benzene	0.56727	0.52241	0.54861	0.59566	0.56452	0.53783	0.48852	AVRG		0.54640		6.33741
70 m&p-Xylene	0.44694	0.43080	0.44688	0.46146	0.41037	0.37820	0.32455	AVRG		0.41417		11.66157
71 Bromoform	4143	7709	19660	42132	841179	1714399	2484927	QUAD	-0.01115	0.43201	-0.01787	0.99964

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
72 n-Nonane	0.20866	0.24637	0.28263	0.30609	0.29152	0.28875						
	0.27516							AVRG		0.27131		12.23605
73 Styrene	0.21721	0.26596	0.27984	0.29484	0.31263	0.31862						
	0.30635							AVRG		0.28507		12.34524
74 o-Xylene	0.49067	0.43530	0.44527	0.46411	0.43828	0.44054						
	0.40765							AVRG		0.44597		5.78888
75 1,1,2,2-Tetrachloroethane	0.29071	0.29012	0.29045	0.31004	0.31370	0.32351						
	0.31258							AVRG		0.30444		4.52029
76 Isopropylbenzene	0.58166	0.58042	0.58800	0.58934	0.58029	0.55411						
	0.49718							AVRG		0.56729		5.82539
77 N-Propylbenzene	0.54558	0.53803	0.59253	0.64086	0.65578	0.63180						
	0.56003							AVRG		0.59494		8.13924
78 4-Ethyltoluene	0.39409	0.40757	0.47403	0.53720	0.52366	0.53207						
	0.48559							AVRG		0.47917		12.22205

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	0.58397	0.49479	0.46268	0.48023	0.45401	0.45635					
	0.42071						AVRG		0.47896		10.80526
80 n-Decane	0.11725	0.13649	0.16156	0.17228	0.17944	0.18189					
	0.17539						AVRG		0.16061		15.30373
81 Tert-Butyl Benzene	0.42314	0.41233	0.44327	0.48529	0.45625	0.46958					
	0.43818						AVRG		0.44686		5.72296
82 1,2,4-Trimethylbenzene	+++++	25671	51743	103246	924491	1904070					
	2714429						QUAD	-0.00009	0.47243	-0.02082	0.99946
83 1,3-Dichlorobenzene	0.32166	0.30012	0.28653	0.30491	0.31441	0.32791					
	0.31396						AVRG		0.30993		4.49791
84 Sec- Butylbenzene	0.49225	0.49486	0.56016	0.61595	0.60600	0.59952					
	0.53587						AVRG		0.55780		9.31276
86 Benzyl Chloride	0.29446	0.29436	0.28808	0.30841	0.32951	0.35401					
	0.33360						AVRG		0.31463		7.88567

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
87 1,4-Dichlorobenzene	0.34890	0.30915	0.31007	0.31553	0.30360	0.32334					
	0.30403						AVRG		0.31638		5.02211
88 p-Isopropyltoluene	0.43790	0.46880	0.52031	0.54829	0.55179	0.54185					
	0.50213						AVRG		0.51015		8.50340
89 1,2,3-Trimethylbenzene	0.35200	0.35984	0.40756	0.39943	0.41870	0.43498					
	0.40601						AVRG		0.39693		7.63992
90 1,2-Dichlorobenzene	0.28826	0.27622	0.28436	0.30036	0.29027	0.30310					
	0.28926						AVRG		0.29026		3.15679
91 N-Butylbenzene	0.39368	0.36695	0.43352	0.46130	0.46576	0.46945					
	0.42787						AVRG		0.43122		9.03890
92 1,2-Dibromo-3-Chloropropane	1558	3129	6824	14034	216697	429268					
	605012						QUAD	-0.00216	0.11293	-0.00699	0.99970
93 1,2,4-Trichlorobenzene	+++++	0.12153	0.10789	0.11832	0.11412	0.09998					
	0.08611						AVRG		0.10799		12.21818

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	+++++	0.23884	0.21119	0.21616	0.20437	0.17185					
	+++++						AVRG		0.20848		11.61725
95 Hexachlorobutadiene	+++++	0.14882	0.16532	0.16652	0.13552	0.11766					
	+++++						AVRG		0.14677		14.09696
$ 32 Hexane-d14(S)	0.46845	0.46014	0.45485	0.45839	0.45417	0.45689					
	0.45950						AVRG		0.45891		1.03758
$ 59 Toluene-d8 (S)	0.95617	0.94745	0.94685	0.94193	0.95967	0.94897					
	0.94212						AVRG		0.94902		0.70630
$ 85 1,4-dichlorobenzene-d4 (S)	0.50270	0.50945	0.49588	0.49420	0.55714	0.56058					
	0.52207						AVRG		0.52029		5.37213

Report Date : 14-Mar-2017 09:17

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2017 09:58
End Cal Date : 13-MAR-2017 12:24
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\031317.b\TO15_072-17.m
Last Edit : 14-Mar-2017 09:11 ecrouser

Average %RSD Results.
Calculated Average %RSD = 12.83255
Maximun Average %RSD = 0.000e+000
* Failed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Equation 1: Concentration of each component in the flask (Static Dilution Technique, section 10.4.1. S-MN-A-013 rev. 19).

$$\text{Concentration}(\text{mg/L}) = \frac{(V_i)(d)}{V_f}$$

where:

V_i =Volume of liquid neat standard injected into the flask in mL;
d=Density of the liquid neat standard in mg/mL;
V_f =Volume of the flask in liters.

Caution: In the preparation of standards by this technique, make sure that the volume of neat standard injected into the flask does not result in an overpressure due to the higher partial pressure produced by the standard compared to the vapor pressure in the flask.

Equation 2: First determine the volume of the compound as a gas.

$$V = \frac{nRT}{P} \quad \text{where,} \quad n = \frac{(V_i)(d)}{M}$$

where,
V=Volume of injected compound at STP in liters;
n=Moles;
R=Gas constant (0.08206 L-atm/mole ^{o}K);
T=Ambient temperature in ^{o}K;
P=Ambient pressure in atm;
V_i=Volume of liquid neat standard injected into the flask in mL;
d=Density of the neat standard in g/mL;
M=Molecular weight of the compound in g/mole.

Equation 3: Now calculate the concentration in the flask in ppbv.

$$\text{ppbv} = \frac{V}{V_f}(10^9)$$

where:
V=Gas volume of compound as determined in Eq. 8 in liters;
V_f=Volume of static dilution flask in liters.

Equation 4*:* The concentration in ppbv of each compound in the canister can be determined.

$$\text{ppbv} = \frac{(V_i)(C_x)}{V_c}$$

where:
V_i=Volume removed from static dilution flask and injected into the canister in liters;
C_x=Concentration of compound *x* in the static dilution flask in ppbv;
V_c=Final canister volume in liters.

Equation 5: Calculate the relative response factors (RRF) for each compound.

$$\text{Relative Response Factor (RRF)} = \frac{(A_x)(C_i)}{(A_i)(C_x)}$$

where,
A_x=Area of the primary ion for compound *x* to be measured;
A_i=Area of the primary ion for the internal standard associated with compound *x*;
C_i=Concentration of the internal standard in ppbv;
C_x =Concentration of compound *x* to be measured in ppbv.

Equation 6: Calculate the mean RRF for each compound.

$$\overline{R_f} = \frac{\sum_{n=5} R_f}{n}$$

where,
$\overline{R_f}$ =Average relative response factor;
R_f=Relative response factor from calibration curve;
n=Number of data points.

Equation 7: Standard Deviation.

$$\sigma_{(n-1)} = \sqrt{\sum_{i-1}^{n} \frac{(x_i - \bar{x})^2}{(n-1)}}$$

Equation 8: %Relative Standard Deviation (%RSD).

$$\%RSD = \frac{s_{(n-1)}}{\bar{R}_f} x100$$

Equation 9: Mean area response for Internal Standard.

$$\bar{y} = \sum_{i=1}^{n} \frac{y_i}{n}$$

where,

$\bar{y}$ = mean area response

y = Area response for the internal standard for each initial calibration standard

Equation 10: If a linear regression is used, the regression produces the slope and intercept terms for a linear equation.

y = ax + b

where:

y = instrument response (peak area or height)

a = Slope of the line (also called the coefficient of x)

x = Concentration of the calibration standard

b = the intercept, do not include the origin (0) as a calibration point

Equation 11: To calculate the sample concentration by the internal standard method using the linear regression.

$C_s=[(A_sC_{is}/A_{is})-b]/a$

where:

As = Area of the peak for the target analyte in the sample

Ais = Area of the peak of the internal standard

Cs = Concentration of the target analyte in the calibration standard

Cis = Concentration of the internal standard

a = Slope of the line (also called the coefficient of Cs)

b = The intercept

Equation 12: To calculate the coefficient of determination (or r^2) for a quadratic curve fit.

$$COD = \frac{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2 - \left(\frac{n-1}{n-p}\right)\sum_{i=1}^{n}(y_{obs} - Y_i)^2}{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2}$$

where:
y_{obs} = Observed response for each concentration from each initial calibration standard
y = Mean observed response from the initial calibration (See equation 6)
Y_i = Calculated response at each concentration from the initial calibration (See Equation 5)
n = Total number of calibration points in the equation, 6 points for quadratic
p = Number of adjustable parameters in the polynomial equation

Equation 13: Calculate the sample concentration by the internal standard method using the quadratic regression by comparing peak heights to the calibration curve.

Regression equation (quadratic):

$y = ax^2 + bx + c$

Equation 14: Percent Difference (%D). The % D in the RRF of the daily RRF of an individual compound compared to the mean RRF for that compound in the most recent calibration curve.

$$\%D = \frac{|R_i - R_c|}{R_i}(100)$$

where,

R_i=The average RRF from the initial calibration curve for compound *x*;
R_c=RRF for compound *x* from the CCV standard.

Equation 15: Calculate the percent recovery of the LCS.

$$\text{Percent Recovery} = \frac{C_q}{C_a}(100)$$

where:
C_q=Quantitated concentration of compound *x* in ppbv;
C_a=Actual concentration of compound *x* in ppbv.

Equation 16: Calculate the resultant dilution factor.

DF = (Pf + 14.7) / Pi + 14.7)

Pi = Pressure reading of canister prior to pressurization (psig)
Pf = Pressure reading of canister after pressurization (psig)
DF = Dilution factor

To convert Hg to psig:
Multiply by 0.491559 or divide by 2.036

PSIG reading is converted to One Atmosphere:
One Atmosphere = 14.7 psig = 29.21 inches of Hg

Equation 17: Calculate the concentration of the sample component.

$$C_x = \frac{(A_x)(C_i)(D_f)}{(A_i)(R_f)}$$

where:

C_x=Concentration of compound *x* in ppbv;
A_x=EICP area of the quantitation ion for compound *x*;
C_i=Concentration of the internal standard associated with compound *x* in ppbv;
D_f=Dilution factor from Equation 12 (if no dilution was performed, D_f equals 1.)
A_i=EICP area of the quantitation ion for the internal standard associated with compound *x*;
R_f=Average RRF for compound *x* from the most recent calibration curve.

Equation 18: The RPD between the sample and the sample duplicate.

$$RPD = \frac{|A - B|}{(A + B)/2} \times 100$$

Where:

RPD = Relative Percent Difference
A = Sample Value
B = Duplicate Value

Equation 19: Convert ppbv to µg/m³.

$$\frac{(x\ ppbv \times MW\frac{g}{mol})}{24.055\frac{L}{mol}} = y\frac{\mu g}{m^3}$$

Where:

MW = Molecular Weight
24.055 L/mol = Molar Volume of an ideal Gas

$$PV = nRT$$

$$V = \frac{nRT}{P}$$

Where:

V = Volume in liters
N = mols of ideal Gas (1 mol)
R = Ideal gas constant
T = Temperatire in Kelvin

$$V = \frac{(1mol) \times (0.082\ \frac{(L \times atm)}{(mol \times K)} \times 293.15K}{1\ atm}$$

$$V = 24.055\frac{L}{mol}$$

Equation 20: Preparation of Working TO15 Standard.

$$\frac{X}{Y} \times C = Z$$

Where:

X = Volume (L) spiked from stock
Y = Volume (L) of container
C = Concentration (ppbv) of Stock
Z = Concentration (ppbv) of working standard

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 24, 2017

Dallas Mellott
Tetra Tech
234 Mall Boulevard
King Of Prussia, PA 19406

RE: Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Dear Dallas Mellott:
Enclosed are the analytical results for sample(s) received by the laboratory on March 06, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Jon Byk, Tetra Tech
Priscilla Merta, Tetra Tech
Joseph Samchuck, Tetra Tech

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Date: March 24, 2017

VP-1_5_20170302 (Lab ID: 10381035001)

- 1,2-Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-1_10_2017032 (Lab ID: 10381035002)

- 1,2-Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-1_20_20170302 (Lab ID: 10381035003)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-1_30_20170302 (Lab ID: 10381035004)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-2_5_20170302 (Lab ID: 10381035005)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-2_10_20170302 (Lab ID: 10381035006)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-2_20_20170302 (Lab ID: 10381035007)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-2_30_20170302 (Lab ID: 10381035008)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-4_5_20170302 (Lab ID: 10381035009)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-4_10_20170302 (Lab ID: 10381035010)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-4_20_20170302 (Lab ID: 10381035011)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-4_30_20170302 (Lab ID: 10381035012)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_5_20170302 (Lab ID: 10381035013)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_11_20170302 (Lab ID: 10381035014)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_19.5_20170302 (Lab ID: 10381035015)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_28_20170302 (Lab ID: 10381035016)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_56_20170302 (Lab ID: 10381035017)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Date: March 24, 2017

VP-106_72_20170302 (Lab ID: 10381035018)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_84_20170302 (Lab ID: 10381035019)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_72_20170302DUP (Lab ID: 10381035020)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-2_10_20170302DUP (Lab ID: 10381035021)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-1_30_20170302DUP (Lab ID: 10381035022)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 24, 2017

General Information:
22 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 464711

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- LCS (Lab ID: 2540990)
  - Dibromochloromethane

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
- LCS (Lab ID: 2540990)
  - Freon 123
- VP-1_10_2017032 (Lab ID: 10381035002)
  - Freon 123
- VP-1_5_20170302 (Lab ID: 10381035001)
  - Freon 123

QC Batch: 464895

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- LCS (Lab ID: 2541631)
  - Dibromochloromethane

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
- BLANK (Lab ID: 2541630)
  - Freon 123
- DUP (Lab ID: 2542896)
  - Freon 123
- LCS (Lab ID: 2541631)
  - Freon 123
- VP-106_11_20170302 (Lab ID: 10381035014)
  - Freon 123
- VP-106_19.5_20170302 (Lab ID: 10381035015)
  - Freon 123
- VP-106_28_20170302 (Lab ID: 10381035016)
  - Freon 123
- VP-106_56_20170302 (Lab ID: 10381035017)
  - Freon 123
- VP-106_5_20170302 (Lab ID: 10381035013)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 24, 2017

QC Batch: 464895

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- Freon 123
- VP-106_72_20170302 (Lab ID: 10381035018)
  - Freon 123
- VP-106_72_20170302DUP (Lab ID: 10381035020)
  - Freon 123
- VP-106_84_20170302 (Lab ID: 10381035019)
  - Freon 123
- VP-1_20_20170302 (Lab ID: 10381035003)
  - Freon 123
- VP-1_30_20170302 (Lab ID: 10381035004)
  - Freon 123
- VP-1_30_20170302DUP (Lab ID: 10381035022)
  - Freon 123
- VP-2_10_20170302 (Lab ID: 10381035006)
  - Freon 123
- VP-2_10_20170302DUP (Lab ID: 10381035021)
  - Freon 123
- VP-2_20_20170302 (Lab ID: 10381035007)
  - Freon 123
- VP-2_30_20170302 (Lab ID: 10381035008)
  - Freon 123
- VP-2_5_20170302 (Lab ID: 10381035005)
  - Freon 123
- VP-4_10_20170302 (Lab ID: 10381035010)
  - Freon 123
- VP-4_20_20170302 (Lab ID: 10381035011)
  - Freon 123
- VP-4_30_20170302 (Lab ID: 10381035012)
  - Freon 123
- VP-4_5_20170302 (Lab ID: 10381035009)
  - Freon 123

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 24, 2017

Additional Comments:

Analyte Comments:

QC Batch: 464711

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2540990)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

QC Batch: 464895

A3: The sample was analyzed by serial dilution.

- VP-2_10_20170302 (Lab ID: 10381035006)
  - cis-1,2-Dichloroethene

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

10390035

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26217

Page: 1 of 2

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22 E. SUITE 104C
WHITEHOUSE STATION, NJ 08889
Email To: DALLAS.MELCHIOR@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELCHIOR
Copy To:
Purchase Order No.:
Project Name: LIRR GREAT NECK
Project Number: 117-0507044

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☒ mg/m³ ☐ PPBV ☐ PPMV ☐ Other

Report Level: II. ☐ III. ☐ IV. ☐ Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15 ☆	TO15 Short List*	Pace Lab ID
1	VP-1_5_20170302	6LC		3/2/17	0835	3/2/17	1235	-30	-8	4666	03078							X			001
2	VP-1_10_20170302				0835		1235	-30	-8	2308	03686							X			002
3	VP-1_20_20170302				0835		1225	-29	-8	7355	02622							X			003
4	VP-1_30_20170302				0835		1216	-29	-7	2128	03555							X			004
5	VP-2_5_20170302				0816		1200	-29	-8	2719	03554							X			005
6	VP-2_10_20170302				0816		1214	-30	-9.5	1616	16148							X			006
7	VP-2_20_20170302				0816		1205	-30	-8	2705	00045							X			007
8	VP-2_30_20170302				0816		1201	-30	-8	2658	03558							X			008
9	VP-4_5_20170302				0755		1122	-28	-8	0258	10884							X			009
10	VP-4_10_20170302				0755		1128	-28	-8	2874	00054							X			010
11	VP-4_20_20170302				0755		1140	-30	-8	0638	08655							X			011
12	VP-4_30_20170302				0755		1122	-26	-8	2061	02555							X			012

Comments:
* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	3/3/17	12:00		3/3/17	800
	3/3/17	1330	FEDEX	3/6/17	950

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: J. BULK, A. KELLY, D. BROCKERHOFF
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 3/2/17

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26218

Section A Required Client Information:

Company: TEXAS TECH
Address: 295 RT 22 E. SUITE 10-E
WHITEHOUSE STATION, NJ
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DARIN MELOTT
Copy To:
Purchase Order No.:
Project Name: LONG GREEN NECK
Project Number: 1172058764

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other____

Location of Sampling by State: NY

Reporting Units: ug/m³ ✓ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other____

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-106_5_20170302	6LC		3/2/17	0910	3/2/17	1300	-30	-7.5	2509	01822							X			013
2	VP-106_11_20170302				0910		1249	-29	-8	09699	00553							X			014
3	VP-106_19.5_20170302				0910		1279	-28	-7	1490	00556							X			015
4	VP-106_28_20170302				0910		1215	-29	-9	16321	01957							X			016
5	VP-106_56_20170302				0910		1306	-30	-8	9501	00911							X			017
6	VP-106_72_20170302				0910		1314	-29	-7.5	10561	01336							X			018
7	VP-106_84_20170302				0910		1318	-29	-8	28102	00355							X			019
8	VP-106_72_20170302DUP				0910		1314	-30	-8.5	21649	00399							X			020
9	VP-2_10_20170302DUP				0816		1219	-30	-7	10732	10374							X			021
10	VP-1_30_20170302DUP	↓		↓	0835	↓	~~0835~~ 1216	-30	-8.5	27556	00606							X			022
11																					
12																					

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Russell Mott	3/3/17	12:00	[illegible]	3/3/17	1200
[illegible]	3/3/17	1330	EDF Fed Ex	3/6/17	950

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Bulk, D. Kelly, D. Brockhoff
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 3/2/17

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: TetraTech

Project #: WO#: 10381035

Courier: [X] Fed Ex [ ] UPS [ ] Speedee [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: 778568307981, 7503, 7570, 8267, 7415, 7617

Custody Seal on Cooler/Box Present? [ ] Yes [X] No Seals Intact? [ ] Yes [X] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Tin Can [ ] Other: Temp Blank rec: [ ] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): + Corrected Temp (°C): + Thermom. Used: [ ] B88A912167504 [ ] B88A0143310098 [ ] 151401163 [ ] 151401164

Temp should be above freezing to 6°C Correction Factor: 1 Date & Initials of Person Examining Contents: DR 3/7/17

Type of ice Received [ ] Blue [ ] Wet [X] None

				Comments:
Chain of Custody Present?	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	[ ] N/A	3.
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	[ ] N/A	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	[ ] N/A	7.
Sufficient Volume?	[X] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used?	[X] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used?	[X] Yes	[ ] No	[ ] N/A	
Containers Intact?	[X] Yes	[ ] No	[ ] N/A	10.
Media: Air Can Airbag Filter TDT Passive				11.
Sample Labels Match COC?	[X] Yes	[ ] No	[ ] N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Boberg **Date:** 3/8/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: UST-078
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: MN00064
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia WW Certification #: 382
Wisconsin Certification #: 999407970
Wyoming via EPA Region 8 Certification #: 8TMS-L

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10381035001
[1] 1,2-Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035002
[1] 1,2-Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035003
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035004
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035005
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035006
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035007
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035008
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035009
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035010
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

SAMPLE QUALIFIERS

Sample: 10381035011
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035012
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035013
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035014
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035015
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035016
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035017
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035018
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035019
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035020
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035021
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035022
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

ANALYTE QUALIFIERS

1M	This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
A3	The sample was analyzed by serial dilution.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10381035001	**VP-1_5_20170302**	Air	03/02/17 12:35	03/06/17 09:50
10381035002	**VP-1_10_2017032**	Air	03/02/17 12:35	03/06/17 09:50
10381035003	**VP-1_20_20170302**	Air	03/02/17 12:25	03/06/17 09:50
10381035004	**VP-1_30_20170302**	Air	03/02/17 12:16	03/06/17 09:50
10381035005	**VP-2_5_20170302**	Air	03/02/17 12:00	03/06/17 09:50
10381035006	**VP-2_10_20170302**	Air	03/02/17 12:14	03/06/17 09:50
10381035007	**VP-2_20_20170302**	Air	03/02/17 12:05	03/06/17 09:50
10381035008	**VP-2_30_20170302**	Air	03/02/17 12:01	03/06/17 09:50
10381035009	**VP-4_5_20170302**	Air	03/02/17 11:22	03/06/17 09:50
10381035010	**VP-4_10_20170302**	Air	03/02/17 11:28	03/06/17 09:50
10381035011	**VP-4_20_20170302**	Air	03/02/17 11:40	03/06/17 09:50
10381035012	**VP-4_30_20170302**	Air	03/02/17 11:22	03/06/17 09:50
10381035013	**VP-106_5_20170302**	Air	03/02/17 13:00	03/06/17 09:50
10381035014	**VP-106_11_20170302**	Air	03/02/17 12:49	03/06/17 09:50
10381035015	**VP-106_19.5_20170302**	Air	03/02/17 12:49	03/06/17 09:50
10381035016	**VP-106_28_20170302**	Air	03/02/17 12:15	03/06/17 09:50
10381035017	**VP-106_56_20170302**	Air	03/02/17 13:06	03/06/17 09:50
10381035018	**VP-106_72_20170302**	Air	03/02/17 13:14	03/06/17 09:50
10381035019	**VP-106_84_20170302**	Air	03/02/17 13:18	03/06/17 09:50
10381035020	**VP-106_72_20170302DUP**	Air	03/02/17 13:14	03/06/17 09:50
10381035021	**VP-2_10_20170302DUP**	Air	03/02/17 12:14	03/06/17 09:50
10381035022	**VP-1_30_20170302DUP**	Air	03/02/17 12:16	03/06/17 09:50

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10381035001	VP-1_5_20170302	TO-15	NCK	62
10381035002	VP-1_10_2017032	TO-15	NCK	62
10381035003	VP-1_20_20170302	TO-15	NCK	62
10381035004	VP-1_30_20170302	TO-15	NCK	62
10381035005	VP-2_5_20170302	TO-15	NCK	62
10381035006	VP-2_10_20170302	TO-15	NCK	62
10381035007	VP-2_20_20170302	TO-15	NCK	62
10381035008	VP-2_30_20170302	TO-15	NCK	62
10381035009	VP-4_5_20170302	TO-15	NCK	62
10381035010	VP-4_10_20170302	TO-15	NCK	62
10381035011	VP-4_20_20170302	TO-15	NCK	62
10381035012	VP-4_30_20170302	TO-15	NCK	62
10381035013	VP-106_5_20170302	TO-15	NCK	62
10381035014	VP-106_11_20170302	TO-15	NCK	62
10381035015	VP-106_19.5_20170302	TO-15	NCK	62
10381035016	VP-106_28_20170302	TO-15	NCK	62
10381035017	VP-106_56_20170302	TO-15	NCK	62
10381035018	VP-106_72_20170302	TO-15	NCK	62
10381035019	VP-106_84_20170302	TO-15	NCK	62
10381035020	VP-106_72_20170302DUP	TO-15	NCK	62
10381035021	VP-2_10_20170302DUP	TO-15	NCK	62
10381035022	VP-1_30_20170302DUP	TO-15	NCK	62

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 464711 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 07906_27953.D Lab Sample ID: 2540989
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 11:10
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-1_5_20170302	10381035001	07933.D	02:17
02	VP-1_10_2017032	10381035002	07935.D	03:21

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 464895 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 08012_27967.D Lab Sample ID: 2541630
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 14:07
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-1_20_20170302	10381035003	08013.D	14:40
02	VP-1_30_20170302	10381035004	08014.D	15:13
03	VP-2_5_20170302	10381035005	08015.D	15:44
04	VP-2_10_20170302	10381035006	08016.D	16:16
05	VP-2_20_20170302	10381035007	08017.D	16:47
06	VP-2_30_20170302	10381035008	08018.D	17:19
07	VP-4_5_20170302	10381035009	08019.D	17:50
08	VP-4_10_20170302	10381035010	08020.D	18:21
09	VP-4_20_20170302	10381035011	08021.D	18:53
10	VP-4_30_20170302	10381035012	08022.D	19:25
11	VP-106_5_20170302	10381035013	08023.D	19:57
12	VP-106_11_20170302	10381035014	08024.D	20:28
13	VP-106_19.5_20170302	10381035015	08026.D	21:31
14	VP-106_28_20170302	10381035016	08028.D	22:35
15	VP-106_56_20170302	10381035017	08029.D	23:06
16	VP-106_72_20170302	10381035018	08030.D	23:39
17	VP-106_84_20170302	10381035019	08031.D	00:12
18	VP-106_72_20170302DUP	10381035020	08032.D	00:43
19	VP-2_10_20170302DUP	10381035021	08034.D	01:42
20	VP-1_30_20170302DUP	10381035022	08035.D	02:14

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 07501BFB.D BFB Injection Date: 03/16/2017
Instrument ID: 10AIRB BFB Injection Time: 08:47
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.56	
75	30.00 - 66.00% of mass 95	45.21	
96	5.00 - 9.00% of mass 95	6.60	
173	Less than 2.00% of mass 174	0.80	(1.03)
174	50.00 - 120.00% of mass 95	77.72	
175	4.00 - 9.00% of mass 174	5.75	(7.40)
176	93.00 - 101.00% of mass 174	74.27	(95.56)
177	5.00 - 9.00% of mass 176	4.93	(6.63)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	07502.D	03/16/2017	09:16
2	CAL2	CAL2	07503.D	03/16/2017	09:44
3	CAL3	CAL3	07504.D	03/16/2017	10:12
4	CAL4	CAL4	07505.D	03/16/2017	10:42
5	CAL5	CAL5	07506.D	03/16/2017	11:10
6	CAL6	CAL6	07507.D	03/16/2017	11:39
7	CAL7	CAL7	07508.D	03/16/2017	12:08
8	ICV	ICV	07510.D	03/16/2017	13:03

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 07901BFB.D BFB Injection Date: 03/20/2017
Instrument ID: 10AIRB BFB Injection Time: 08:42
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	24.57	
75	30.00 - 66.00% of mass 95	45.56	
96	5.00 - 9.00% of mass 95	6.58	
173	Less than 2.00% of mass 174	0.81	(1.04)
174	50.00 - 120.00% of mass 95	78.00	
175	4.00 - 9.00% of mass 174	5.69	(7.29)
176	93.00 - 101.00% of mass 174	74.18	(95.10)
177	5.00 - 9.00% of mass 176	4.71	(6.35)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 464711 [AIR/27953]	2540990	07902_27953.D	03/20/2017	09:10
2	CCV	CCV	07902.D	03/20/2017	09:10
3	BLANK for HBN 464711 [AIR/2795	2540989	07906_27953.D	03/20/2017	11:10
4	CERT	CERT	07906.D	03/20/2017	11:10
5	VP-1_5_20170302	10381035001	07933.D	03/21/2017	02:17
6	VP-1_10_2017032	10381035002	07935.D	03/21/2017	03:21
7	VP-1_10_2017032(2530864DUP)	2541459-DUP	07936.D	03/21/2017	03:52

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 08001BFB.D BFB Injection Date: 03/21/2017
Instrument ID: 10AIRB BFB Injection Time: 08:35
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.44	
75	30.00 - 66.00% of mass 95	45.20	
96	5.00 - 9.00% of mass 95	6.61	
173	Less than 2.00% of mass 174	0.82	(1.05)
174	50.00 - 120.00% of mass 95	77.73	
175	4.00 - 9.00% of mass 174	5.88	(7.57)
176	93.00 - 101.00% of mass 174	75.62	(97.29)
177	5.00 - 9.00% of mass 176	4.89	(6.47)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 464895 [AIR/27967]	2541631	08002_27967.D	03/21/2017	09:03
2	CCV	CCV	08002.D	03/21/2017	09:03
3	CERT	CERT	08004.D	03/21/2017	10:02
4	BLANK for HBN 464895 [AIR/2796	2541630	08012_27967.D	03/21/2017	14:07
5	CERT	CERT	08012.D	03/21/2017	14:07
6	VP-1_20_20170302	10381035003	08013.D	03/21/2017	14:40
7	VP-1_30_20170302	10381035004	08014.D	03/21/2017	15:13
8	VP-2_5_20170302	10381035005	08015.D	03/21/2017	15:44
9	VP-2_10_20170302	10381035006	08016.D	03/21/2017	16:16
10	VP-2_20_20170302	10381035007	08017.D	03/21/2017	16:47
11	VP-2_30_20170302	10381035008	08018.D	03/21/2017	17:19
12	VP-4_5_20170302	10381035009	08019.D	03/21/2017	17:50
13	VP-4_10_20170302	10381035010	08020.D	03/21/2017	18:21
14	VP-4_20_20170302	10381035011	08021.D	03/21/2017	18:53
15	VP-4_30_20170302	10381035012	08022.D	03/21/2017	19:25
16	VP-106_5_20170302	10381035013	08023.D	03/21/2017	19:57
17	VP-106_11_20170302	10381035014	08024.D	03/21/2017	20:28
18	VP-106_11_20170302(2530885DUP)	2542896-DUP	08025.D	03/21/2017	20:59
19	VP-106_19.5_20170302	10381035015	08026.D	03/21/2017	21:31
20	VP-106_28_20170302	10381035016	08028.D	03/21/2017	22:35
21	VP-106_56_20170302	10381035017	08029.D	03/21/2017	23:06
22	VP-106_72_20170302	10381035018	08030.D	03/21/2017	23:39
23	VP-106_84_20170302	10381035019	08031.D	03/22/2017	00:12
24	VP-106_72_20170302DUP	10381035020	08032.D	03/22/2017	00:43
25	VP-2_10_20170302DUP	10381035021	08034.D	03/22/2017	01:42

26	VP-1_30_20170302DUP	10381035022	08035.D	03/22/2017	02:14

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 08101BFB.D BFB Injection Date: 03/22/2017
Instrument ID: 10AIRB BFB Injection Time: 08:37
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	24.34	
75	30.00 - 66.00% of mass 95	45.23	
96	5.00 - 9.00% of mass 95	6.63	
173	Less than 2.00% of mass 174	0.80	(1.04)
174	50.00 - 120.00% of mass 95	77.05	
175	4.00 - 9.00% of mass 174	5.73	(7.44)
176	93.00 - 101.00% of mass 174	73.00	(94.74)
177	5.00 - 9.00% of mass 176	4.94	(6.77)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	08102.D	03/22/2017	09:05
2	CERT	CERT	08110.D	03/22/2017	13:31
3	VP-1_20_20170302	10381035003	08134.D	03/23/2017	02:43
4	VP-106_28_20170302	10381035016	08136.D	03/23/2017	03:46
5	VP-106_84_20170302	10381035019	08138.D	03/23/2017	04:46
6	VP-106_56_20170302	10381035017	08139.D	03/23/2017	05:14
7	VP-106_72_20170302	10381035018	08140.D	03/23/2017	05:42
8	VP-106_72_20170302DUP	10381035020	08141.D	03/23/2017	06:10
9	VP-2_10_20170302	10381035006	08142.D	03/23/2017	06:38
10	VP-2_10_20170302DUP	10381035021	08143.D	03/23/2017	07:06

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/20/2017

Lab File ID (Standard): 07902.D Time Analyzed: 09:10

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
05	24 HOUR STANDARD	6156400	5.613	4212056	8.642
05	UPPER LIMIT	12312800	6.113	8424112	9.142
05	LOWER LIMIT	3078200	5.113	2106028	8.142
05	EPA SAMPLE NO.				
05	LCS for HBN 464711 [AIR/27953]	6156400	5.613	4212056	8.642
05	BLANK for HBN 464711 [AIR/2795	6431450	5.600	4168665	8.639
05	VP-1 5 20170302	6181832	5.601	4037338	8.639
05	VP-1 10 2017032	6707131	5.600	4412958	8.639
05	VP-1_10_2017032(2530864DUP)	6640331	5.601	4330567	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/21/2017

Lab File ID (Standard): 08002.D Time Analyzed: 09:03

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
23	24 HOUR STANDARD	6291578	5.613	4331960	8.645
23	UPPER LIMIT	12583156	6.113	8663920	9.145
23	LOWER LIMIT	3145789	5.113	2165980	8.145
23	EPA SAMPLE NO.				
23	LCS for HBN 464895 [AIR/27967]	6291578	5.613	4331960	8.645
23	BLANK for HBN 464895 [AIR/2796	6396925	5.600	4172091	8.639
23	VP-1_20_20170302	6125177	5.604	3918441	8.639
23	VP-1_30_20170302	6127235	5.604	3955480	8.639
23	VP-2_5_20170302	6478475	5.600	4209127	8.642
23	VP-2_10_20170302	6432640	5.610	4141997	8.642
23	VP-2_20_20170302	6394778	5.604	4193193	8.639
23	VP-2_30_20170302	6442856	5.607	4177610	8.642
23	VP-4_5_20170302	6367477	5.594	4124874	8.639
23	VP-4_10_20170302	6387675	5.601	4143374	8.642
23	VP-4_20_20170302	6439684	5.604	4173795	8.639
23	VP-4_30_20170302	6427566	5.604	4092039	8.639
23	VP-106_5_20170302	6464450	5.601	4141004	8.639
23	VP-106_11_20170302	6459444	5.597	4083427	8.639
23	VP-106_11_20170302(2530885DUP)	6265365	5.601	4028688	8.639
23	VP-106_19.5_20170302	6205373	5.597	4082658	8.639
23	VP-106_28_20170302	6121968	5.601	3885016	8.639
23	VP-106_56_20170302	6263050	5.610	3996494	8.642
23	VP-106_72_20170302	6182541	5.610	3926899	8.639
23	VP-106_84_20170302	6158683	5.610	3916588	8.639
23	VP-106_72_20170302DUP	6296792	5.610	4038468	8.642
23	VP-2_10_20170302DUP	6202279	5.610	3990182	8.642
23	VP-1_30_20170302DUP	6154790	5.597	3982400	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/22/2017

Lab File ID (Standard): 08102.D Time Analyzed: 09:05

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
08	24 HOUR STANDARD	5978656	5.613	4042014	8.645
08	UPPER LIMIT	11957312	6.113	8084028	9.145
08	LOWER LIMIT	2989328	5.113	2021007	8.145
08	EPA SAMPLE NO.				
08	VP-1_20_20170302	6210937	5.604	3981420	8.639
08	VP-106_28_20170302	6068289	5.601	3894820	8.639
08	VP-106_84_20170302	6087590	5.604	3810739	8.639
08	VP-106_56_20170302	5966432	5.604	3782408	8.639
08	VP-106_72_20170302	5951381	5.604	3738270	8.642
08	VP-106_72_20170302DUP	5977432	5.604	3753067	8.642
08	VP-2_10_20170302	5794164	5.604	3632200	8.639
08	VP-2_10_20170302DUP	5963842	5.604	3691831	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_5_20170302 **Lab ID: 10381035001** Collected: 03/02/17 12:35 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**52.8**	ug/m3	4.1	1.4	1.68		03/21/17 02:17	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 02:17	107-05-1	
Benzene	**1.2**	ug/m3	0.55	0.20	1.68		03/21/17 02:17	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 02:17	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 02:17	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 02:17	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 02:17	106-99-0	
2-Butanone (MEK)	**2.6J**	ug/m3	5.0	0.38	1.68		03/21/17 02:17	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/21/17 02:17	75-15-0	
Carbon tetrachloride	**0.72J**	ug/m3	1.1	0.32	1.68		03/21/17 02:17	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 02:17	108-90-7	
Chlorodifluoromethane	**5.4**	ug/m3	1.2	0.46	1.68		03/21/17 02:17	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 02:17	75-00-3	
Chloroform	**<0.32**	ug/m3	0.83	0.32	1.68		03/21/17 02:17	67-66-3	
Chloromethane	**1.2**	ug/m3	0.71	0.18	1.68		03/21/17 02:17	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 02:17	76-15-3	
Cyclohexane	**0.87J**	ug/m3	1.2	0.53	1.68		03/21/17 02:17	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 02:17	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 02:17	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 02:17	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 02:17	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 02:17	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/21/17 02:17	106-46-7	
Dichlorodifluoromethane	**1.7J**	ug/m3	4.2	0.81	1.68		03/21/17 02:17	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 02:17	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 02:17	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/21/17 02:17	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 02:17	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/21/17 02:17	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 02:17	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 02:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 02:17	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 02:17	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 02:17	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 02:17	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 02:17	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.7	0.32	1.68		03/21/17 02:17	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 02:17	87-68-3	
n-Hexane	**79.8**	ug/m3	1.2	0.60	1.68		03/21/17 02:17	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 02:17	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 02:17	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 02:17	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 02:17	108-87-2	
Methylene Chloride	**421**	ug/m3	5.9	0.91	1.68		03/21/17 02:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 02:17	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 02:17	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D
Report Date: 22-Mar-2017 13:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032017.b\07933.D
Lab Smp Id: 10381035001
Inj Date : 21-MAR-2017 02:17
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27953
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:37 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 33
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.037	3.034	(0.542)	16222	0.89315	1.50(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.066	3.070	(0.548)	76799	0.20406	0.343	
6	Chloromethane	50	3.160	3.163	(0.564)	31056	0.34837	0.585	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.552	3.545	(0.634)	81721	3.53111	5.93(M)	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.587	3.603	(0.641)	35807	0.31990	0.537	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.664	3.677	(0.654)	27620	0.22080	0.371	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.719	3.722	(0.664)	1299360	13.0041	21.8	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.941	3.951	(0.704)	5708	0.05989	0.101(H)	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D
Report Date: 22-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	4.002	4.005	(0.715)	5826201	70.9256	119	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.491	4.491	(0.802)	2030573	9.58359	9.58	
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.813)	11858	0.51463	0.865(Q)	
	34 n-Hexane	57	4.584	4.587	(0.819)	1404876	13.2535	22.3(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.719	4.716	(0.843)	26394	0.17699	0.297(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.452	5.465	(0.974)	39749	0.22322	0.375	
	44 Carbon tetrachloride	117	5.481	5.484	(0.979)	8392	0.06736	0.113(H)	
	45 Cyclohexane	56	5.481	5.487	(0.979)	15882	0.14789	0.248(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	6181832	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.976	5.986	(1.067)	35129	0.42198	0.709	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5419871	9.52091	9.52	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.143	7.153	(1.276)	141088	0.68231	1.15	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.565	7.581	(0.876)	15313	0.10320	0.173(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	8.639	8.642	(1.000)	4037338	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.069	9.082	(1.050)	31390	0.30954	0.520	
	71 n-Nonane	43	9.468	9.468	(1.096)	330647	2.65847	4.47	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.497	9.507	(1.099)	5055	0.16129	0.271	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D
Report Date: 22-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.905	10.915	(1.262)	3574	0.17210	0.289(M)	
79	1,3,5-Trimethylbenzene	105	10.995	10.998	(1.273)	5059	0.16162	0.272(M)	
80	n-Decane	57	11.375	11.381	(2.031)	31251	0.25233	0.424(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.507	11.510	(1.332)	15732	0.20175	0.339	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	1903521	9.77020	9.77	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	4694	0.16983	0.285	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.156	(1.641)	7186	0.48292	0.811	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D
Report Date: 22-Mar-2017 13:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07933.D
Lab Smp Id: 10381035001
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m
Misc Info: 27953

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

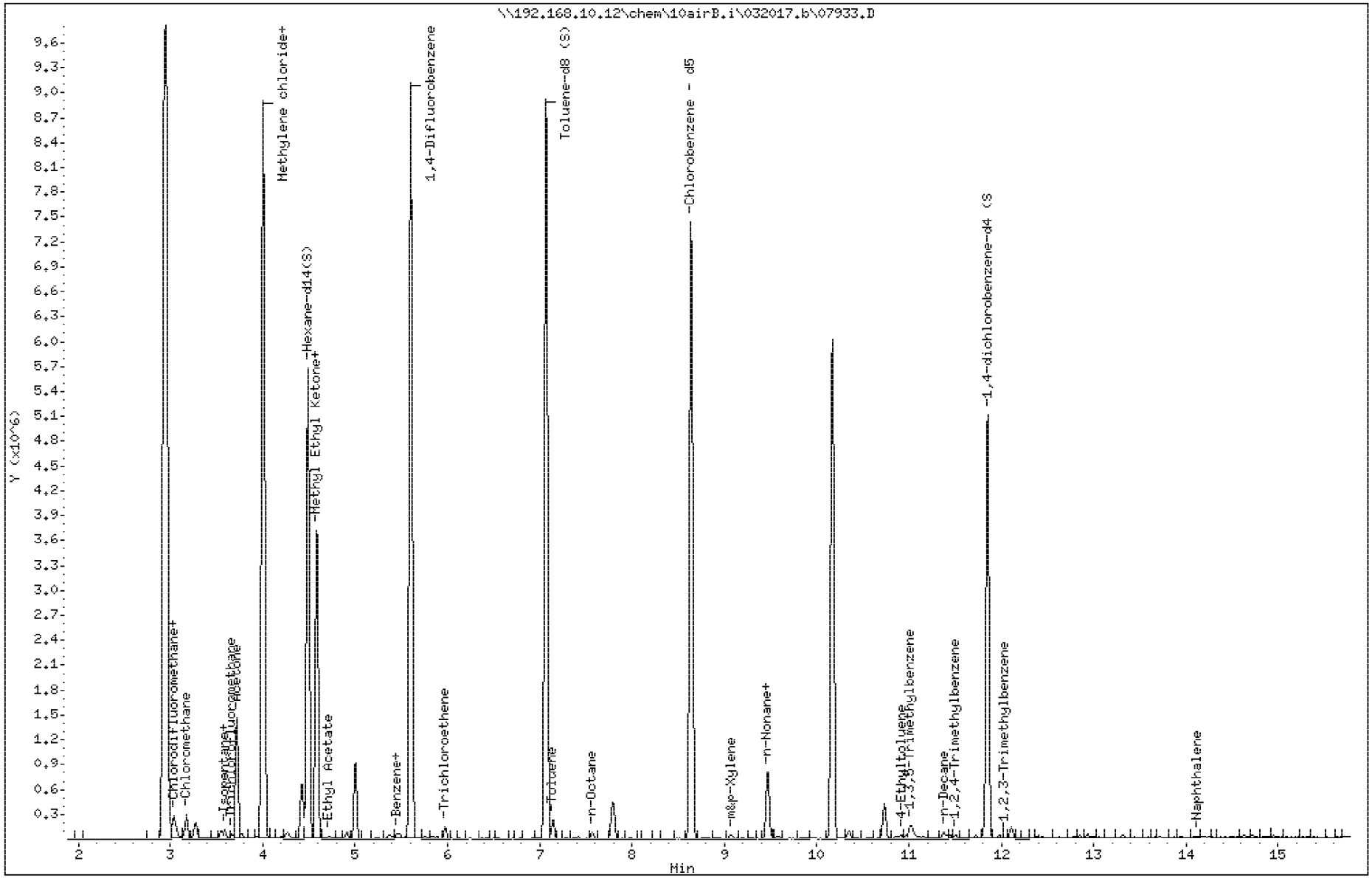
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6181832	-19.10
67 Chlorobenzene - d	5205948	3123569	7288327	4037338	-22.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D
Date : 21-MAR-2017 02:17
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

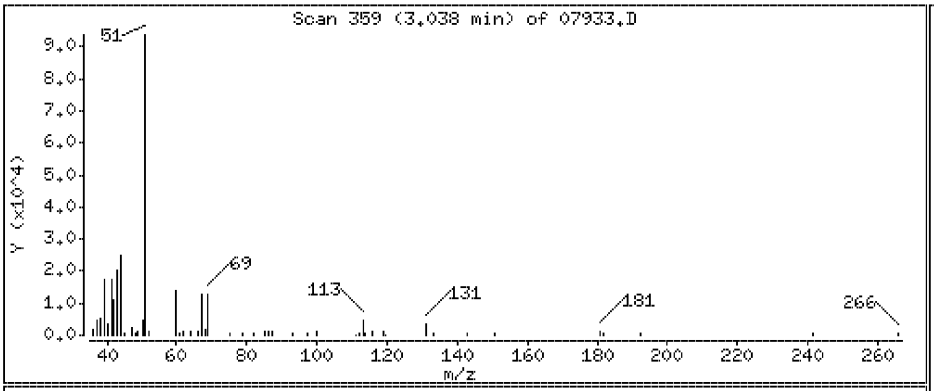
Operator: NCK

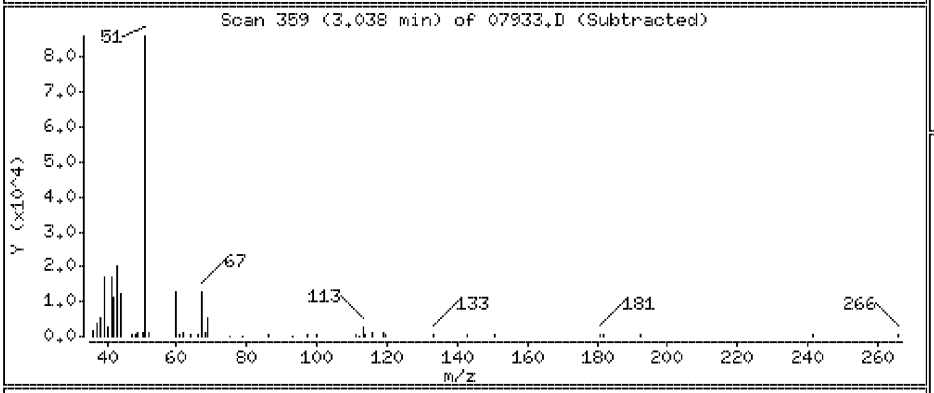
Column phase: J&W DB-5

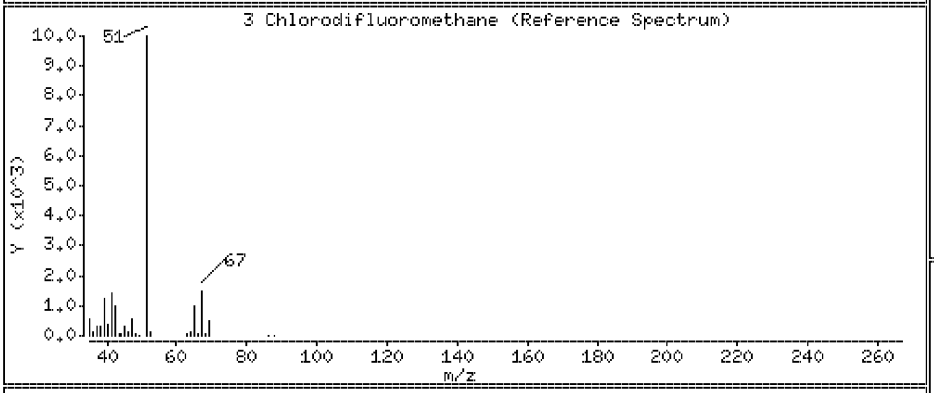
Column diameter: 0.32

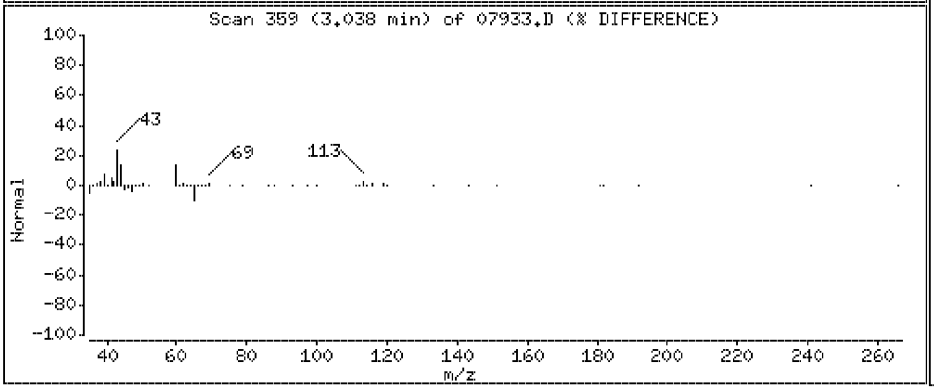
3 Chlorodifluoromethane

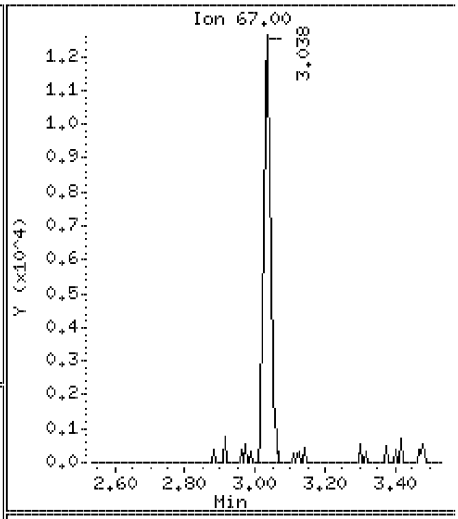
Concentration: 1.50 ppbv

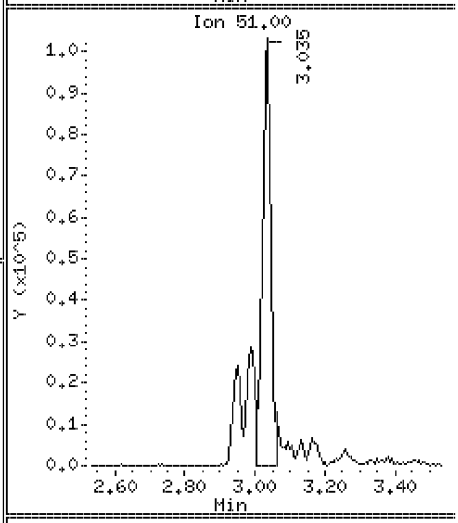


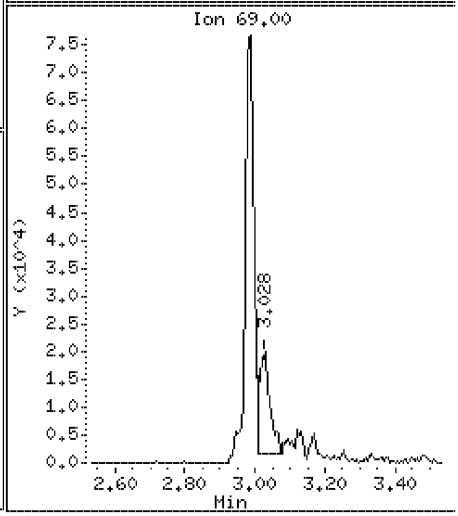












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

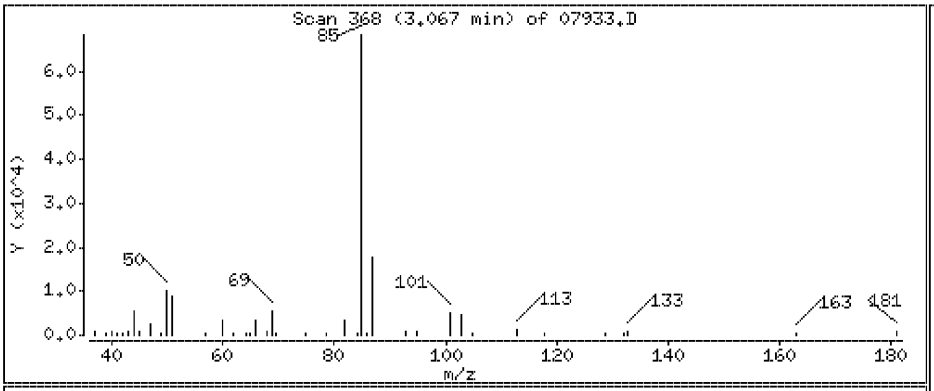
Operator: NCK

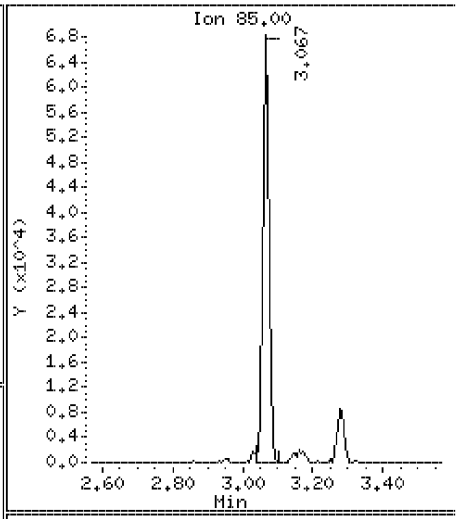
Column phase: J&W DB-5

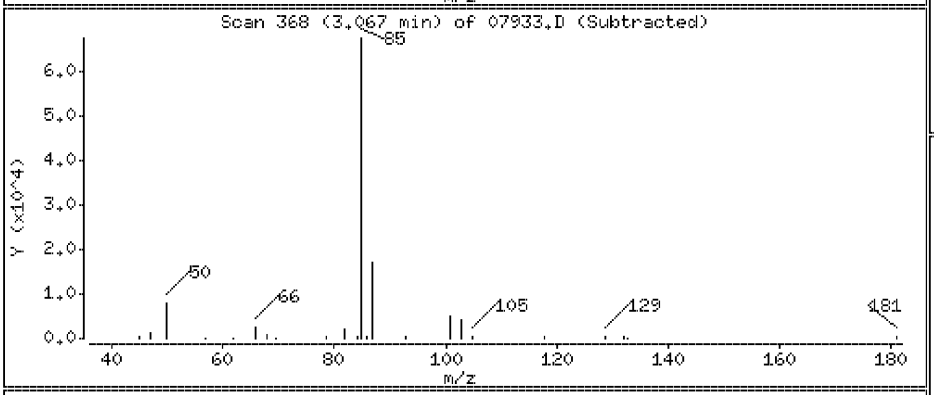
Column diameter: 0.32

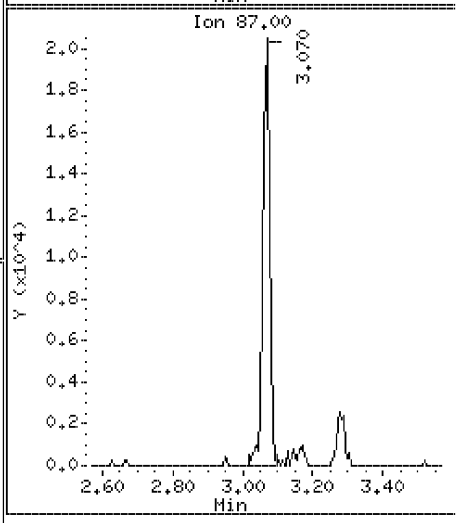
5 Dichlorodifluoromethane

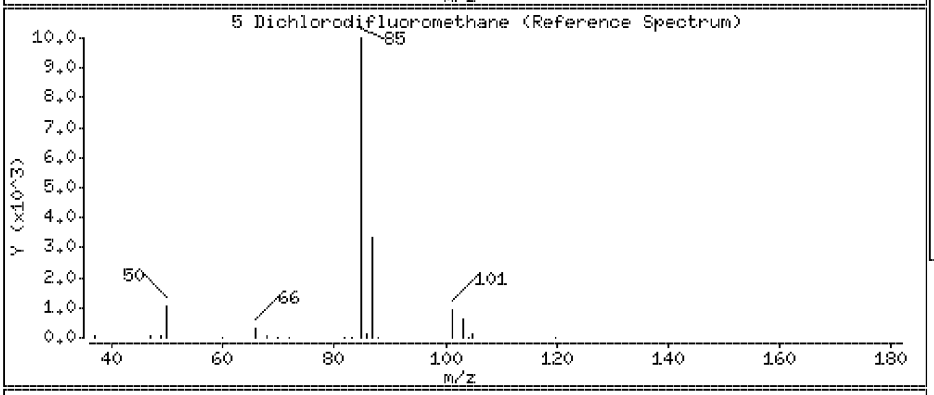
Concentration: 0.343 ppbv

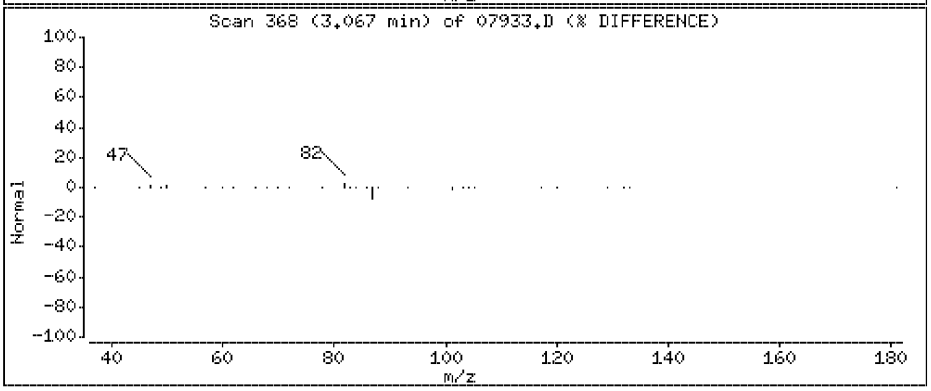












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

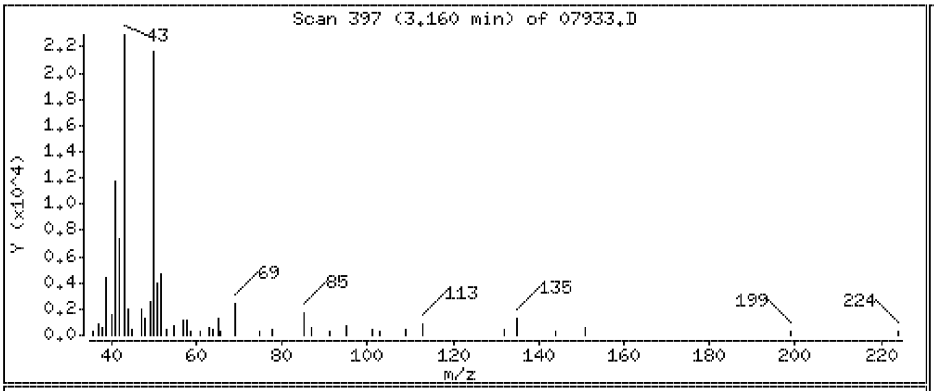
Operator: NCK

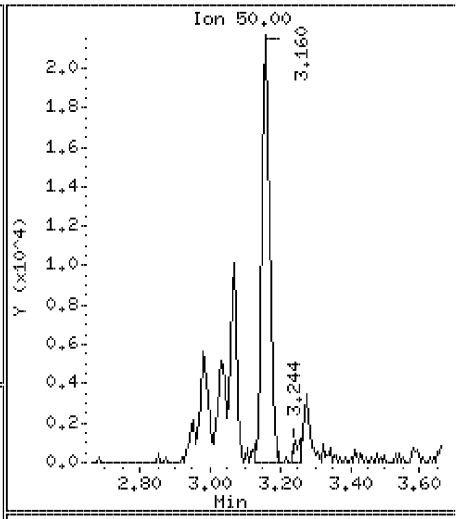
Column phase: J&W DB-5

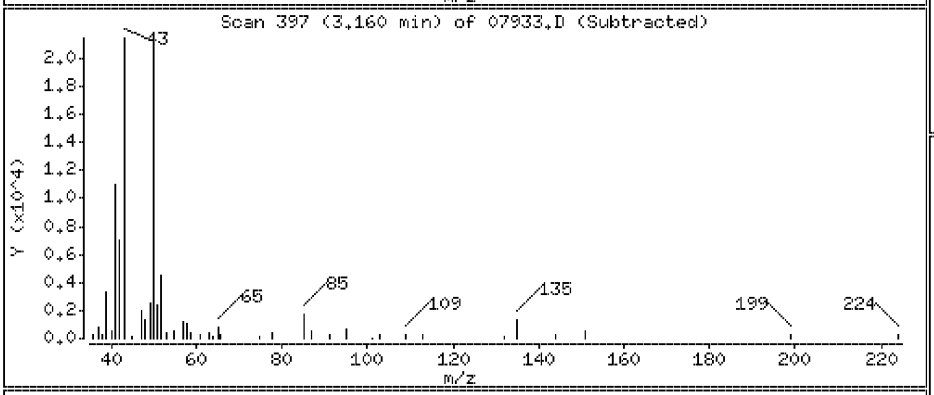
Column diameter: 0.32

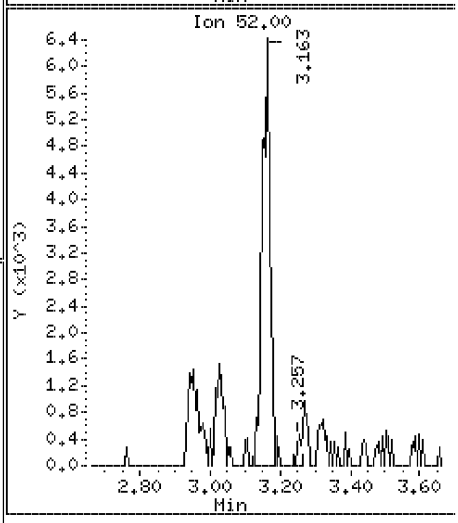
6 Chloromethane

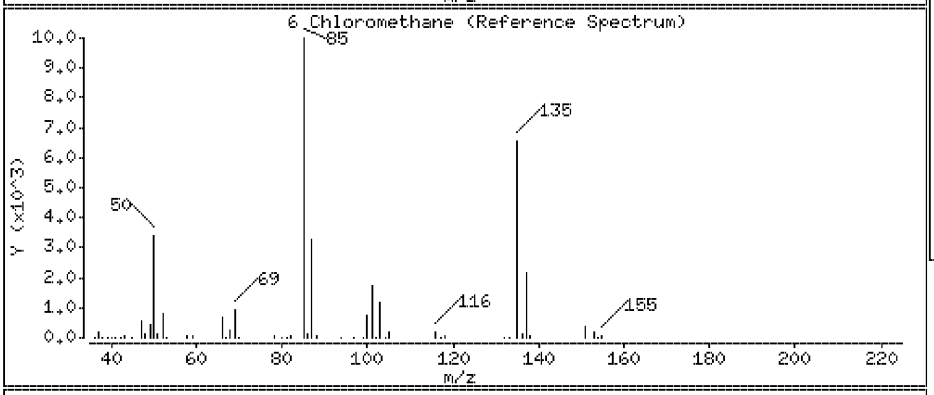
Concentration: 0.585 ppbv

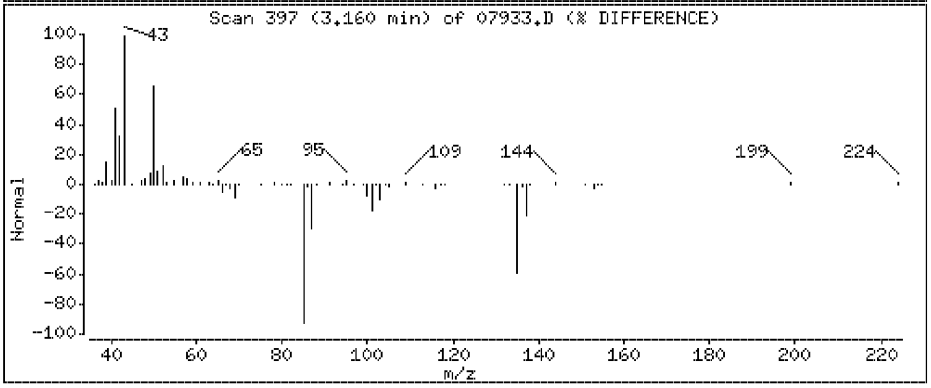












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

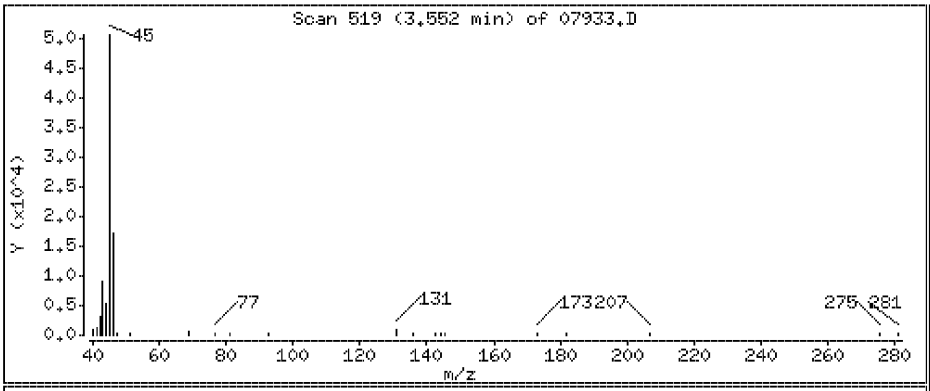
Operator: NCK

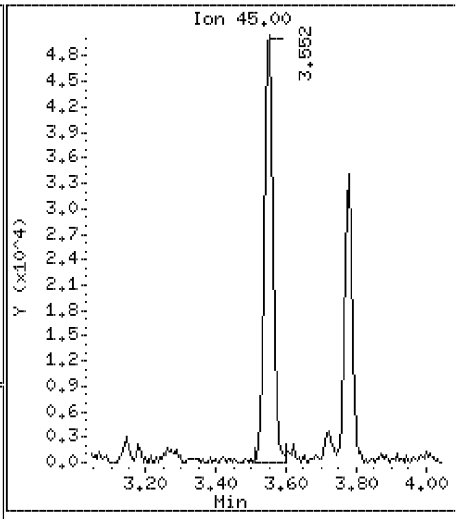
Column phase: J&W DB-5

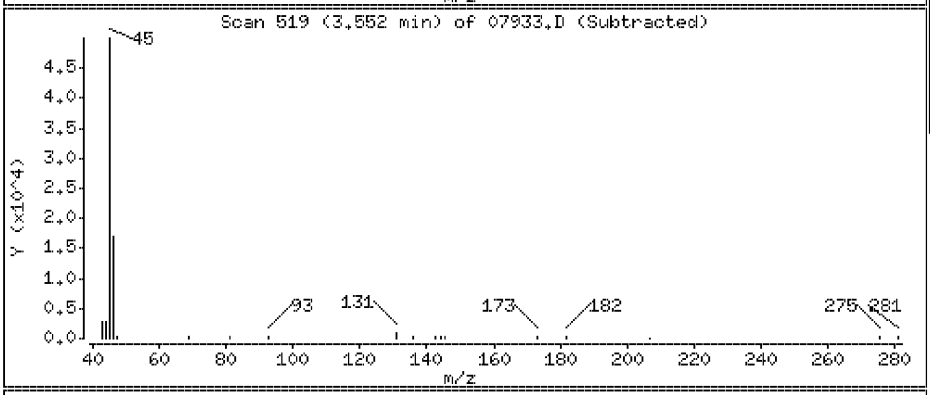
Column diameter: 0.32

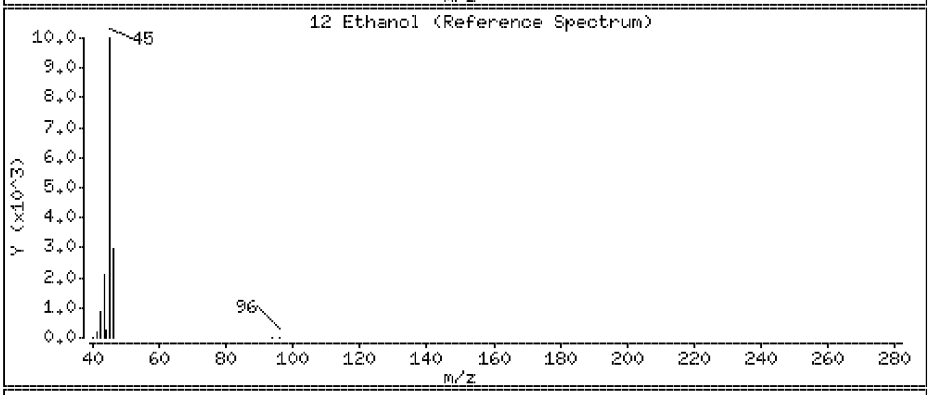
12 Ethanol

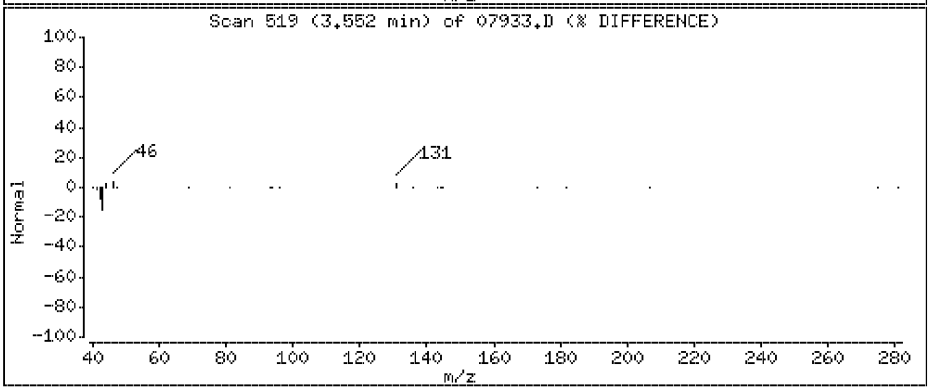
Concentration: 5.93 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

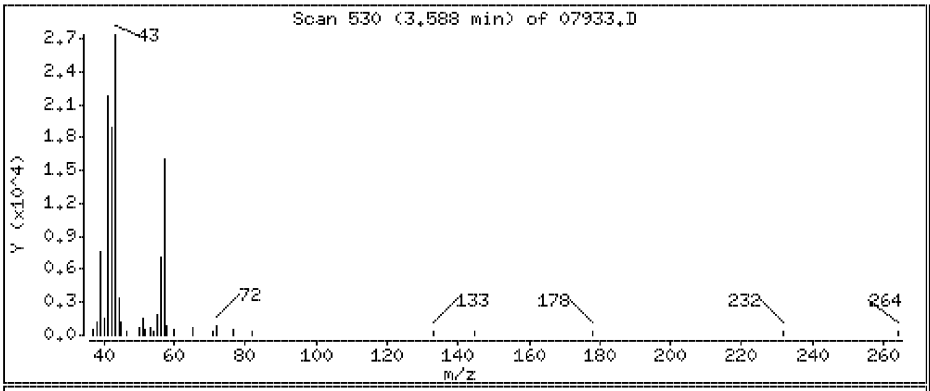
Operator: NCK

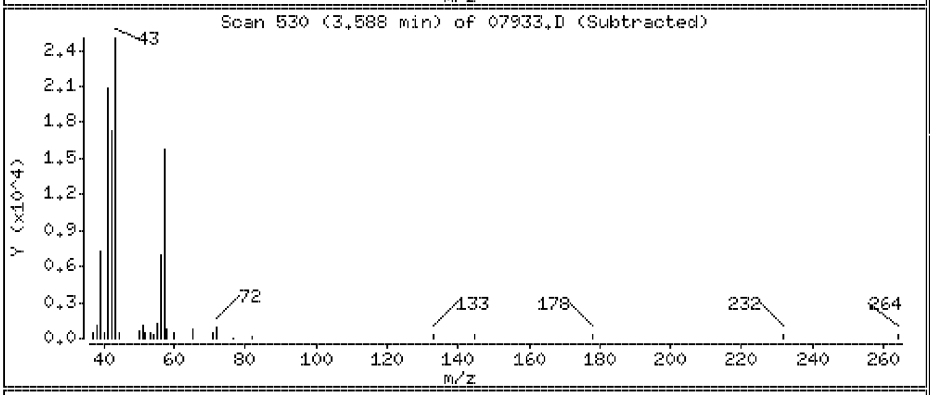
Column phase: J&W DB-5

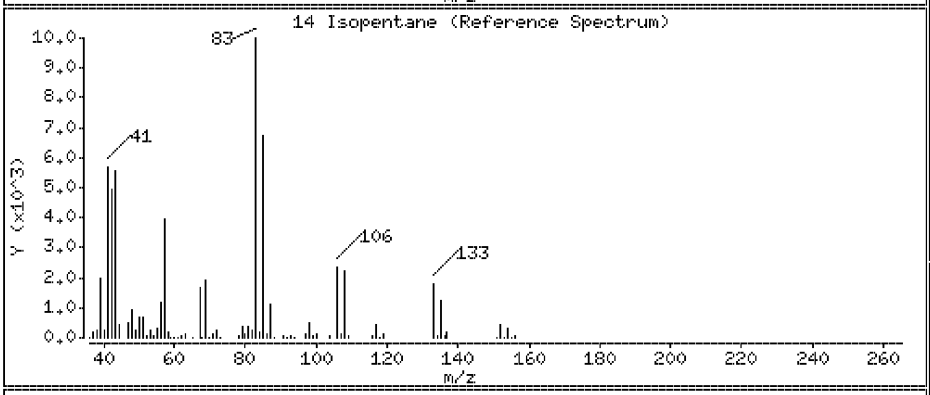
Column diameter: 0.32

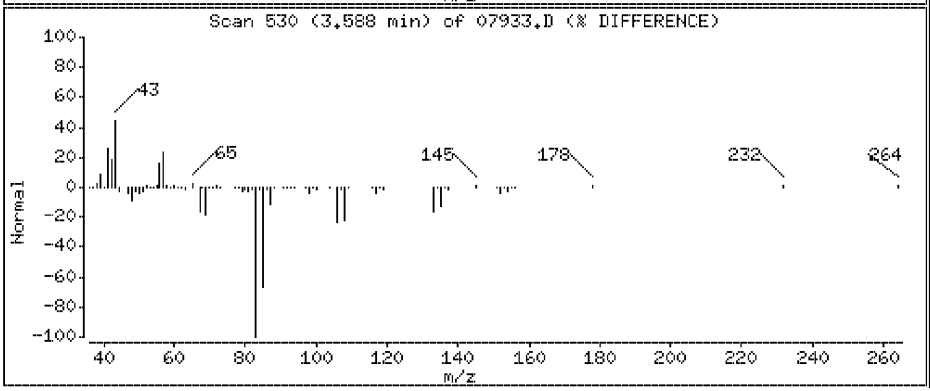
14 Isopentane

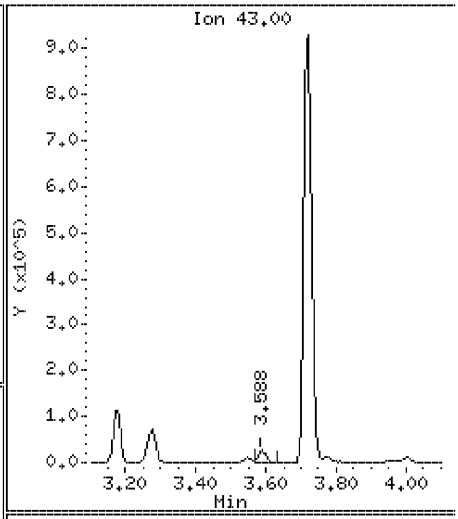
Concentration: 0.537 ppbv

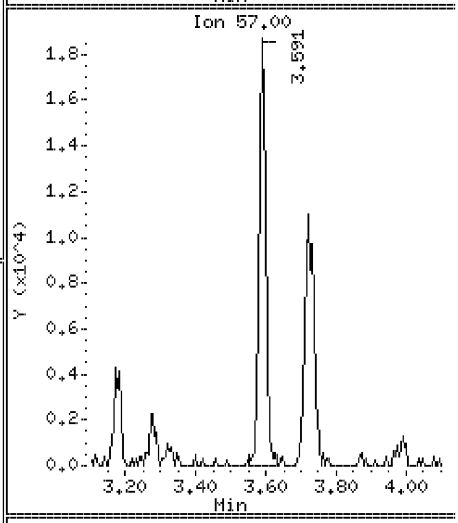


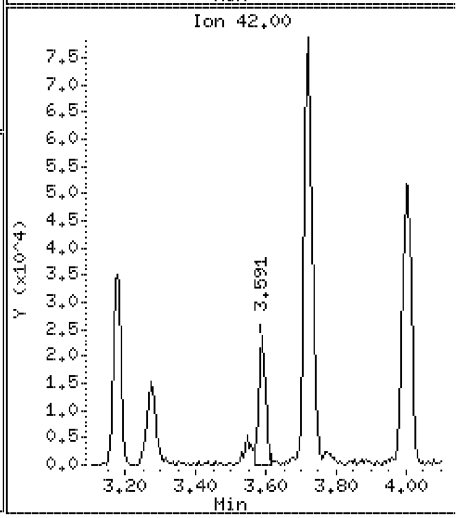












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

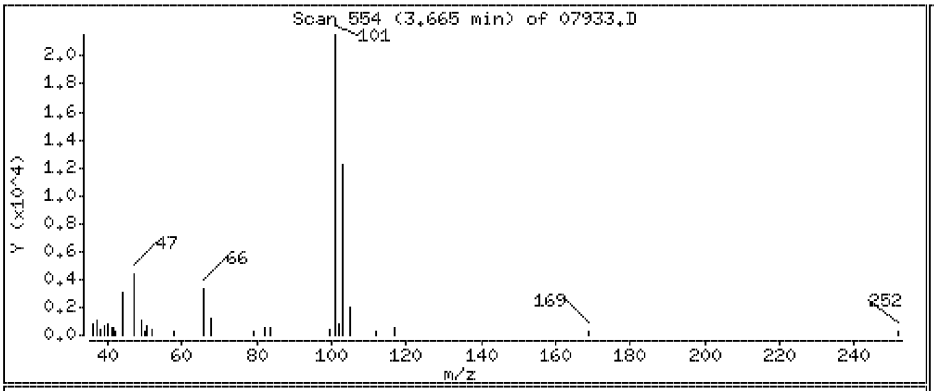
Operator: NCK

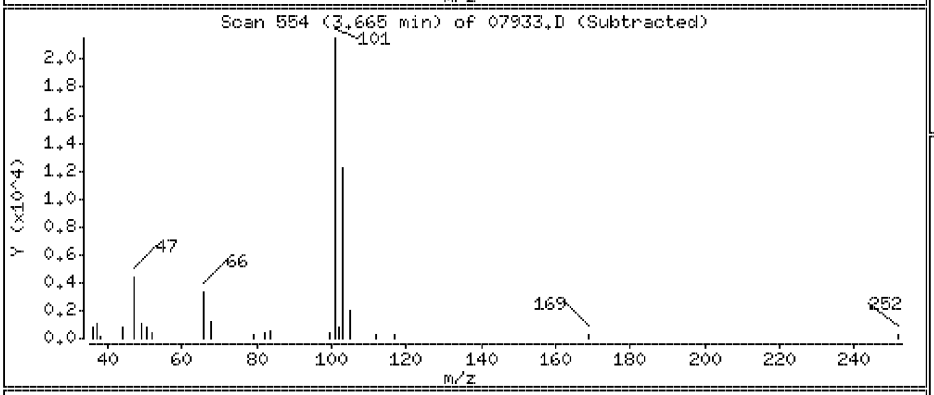
Column phase: J&W DB-5

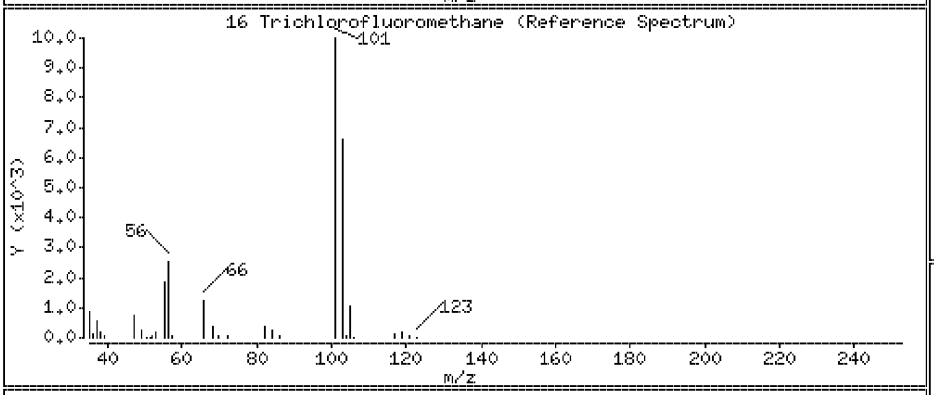
Column diameter: 0.32

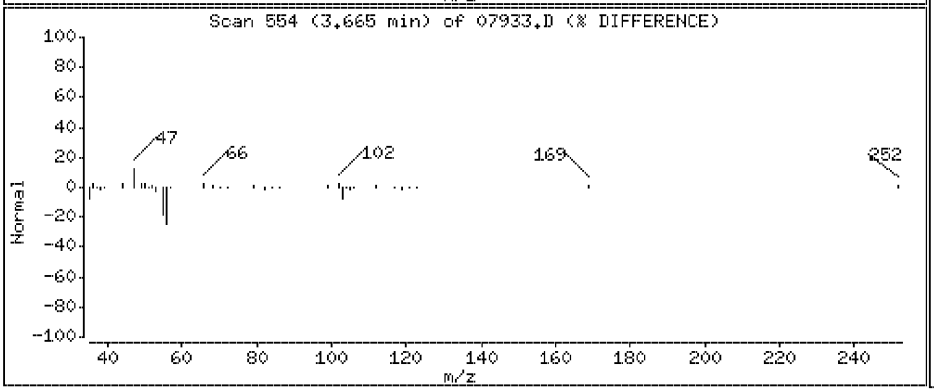
16 Trichlorofluoromethane

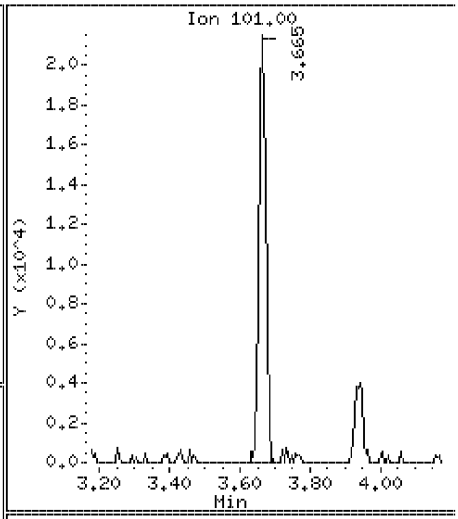
Concentration: 0.371 ppbv

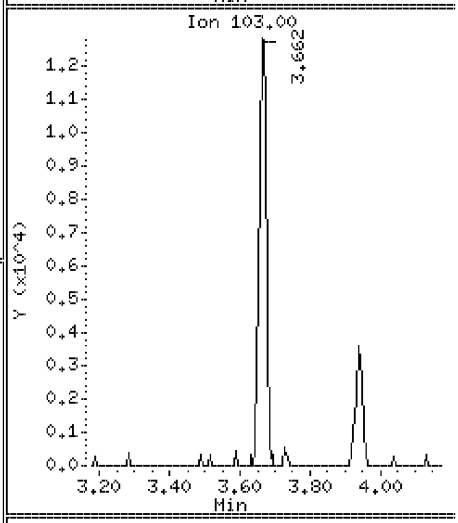


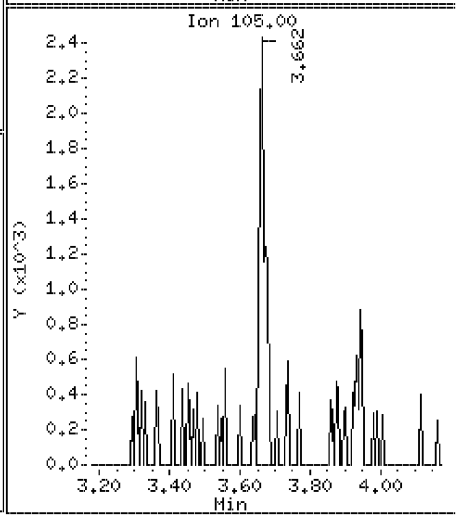












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

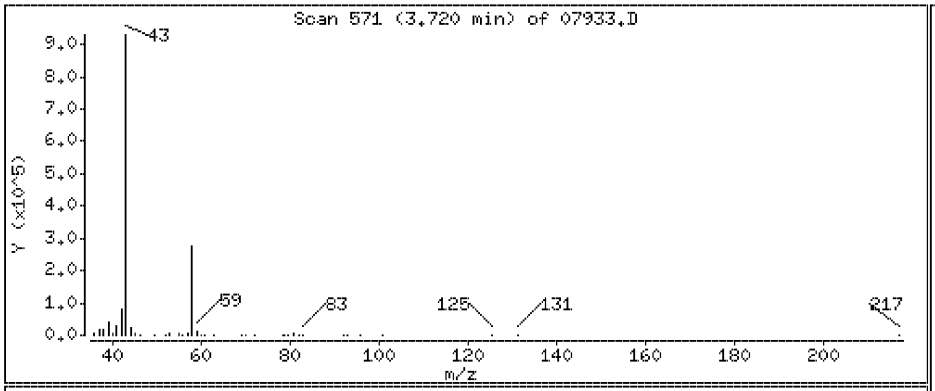
Operator: NCK

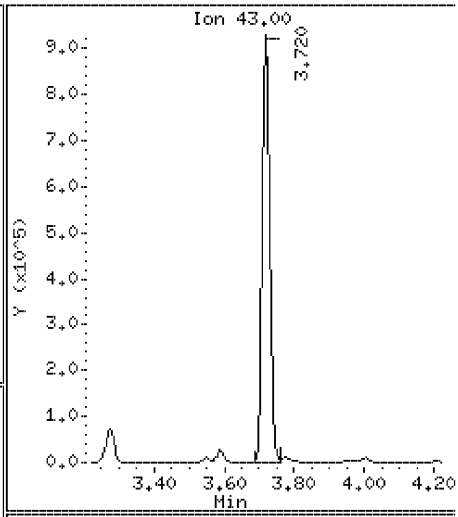
Column phase: J&W DB-5

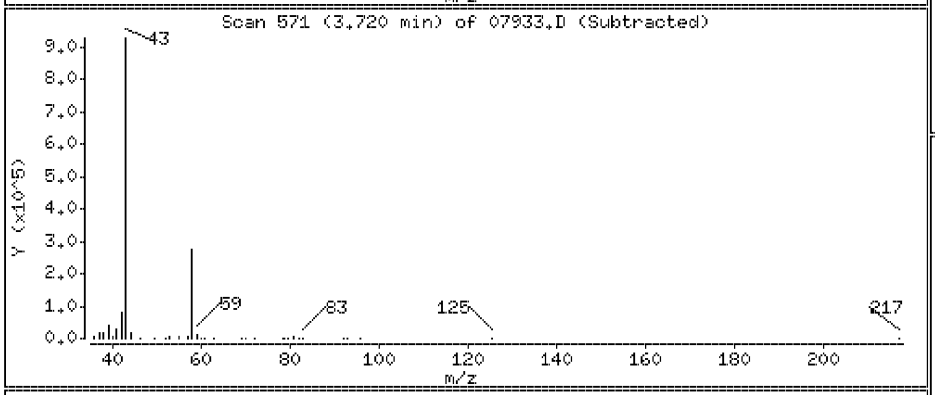
Column diameter: 0.32

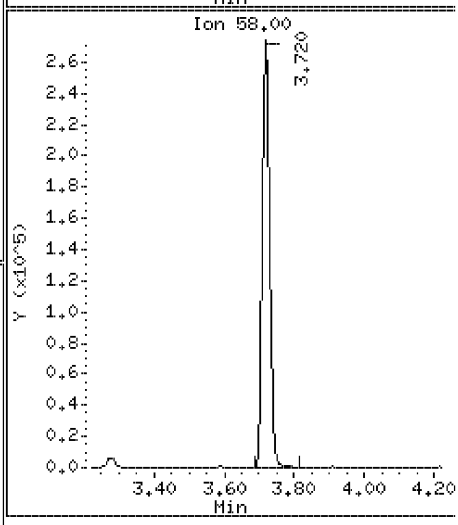
18 Acetone

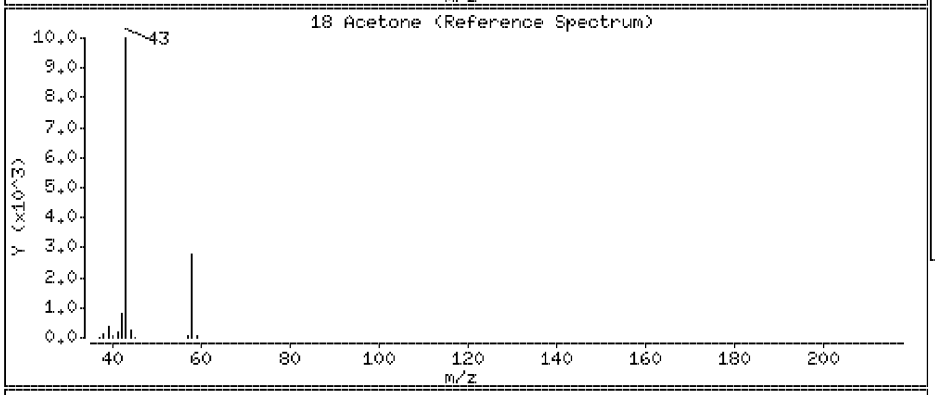
Concentration: 21.8 ppbv

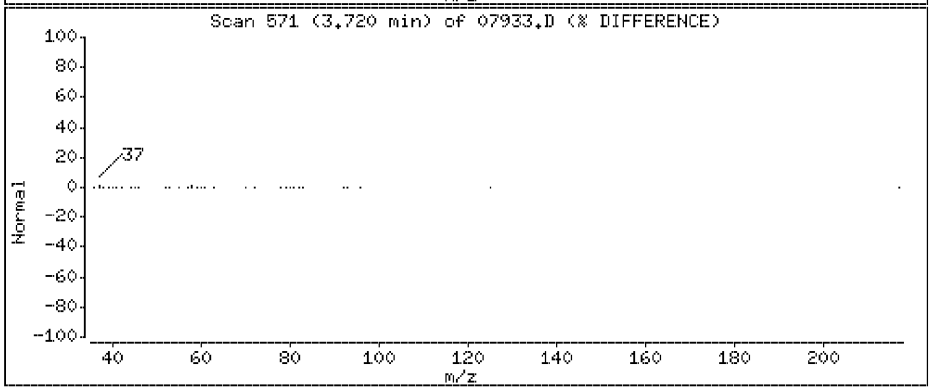












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

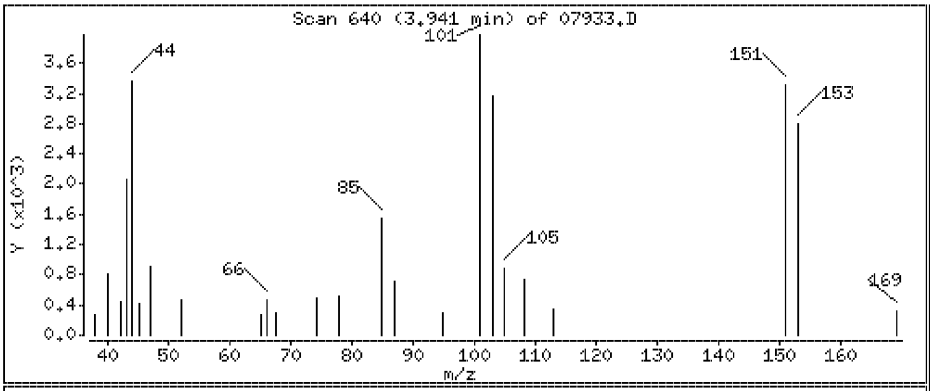
Operator: NCK

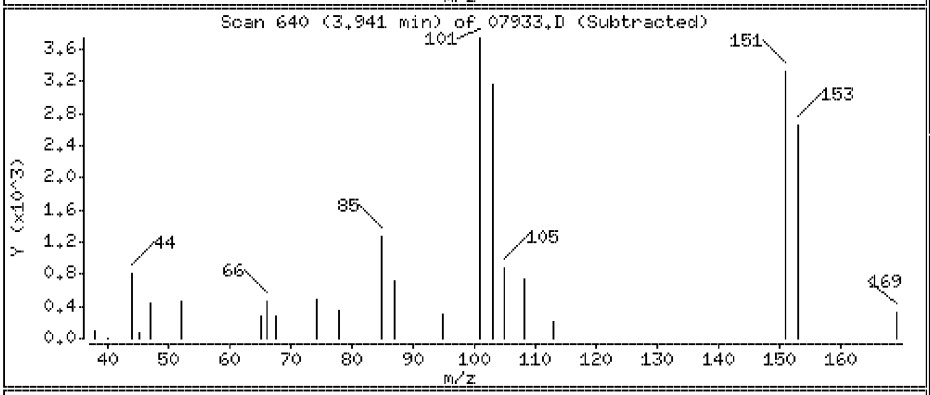
Column phase: J&W DB-5

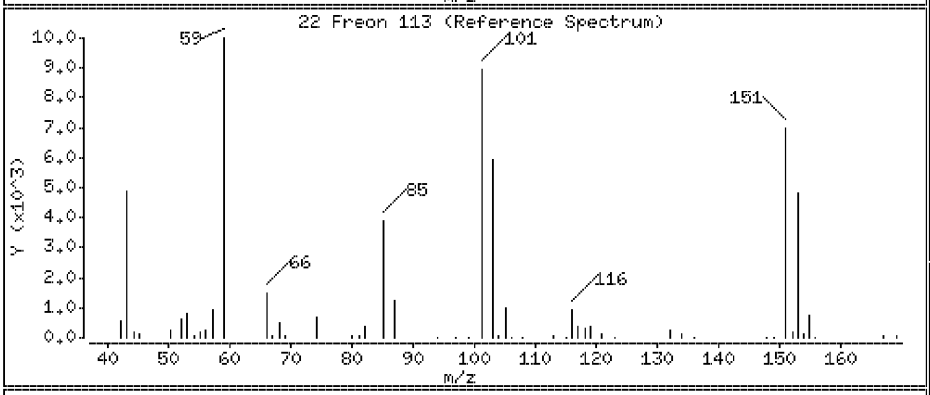
Column diameter: 0.32

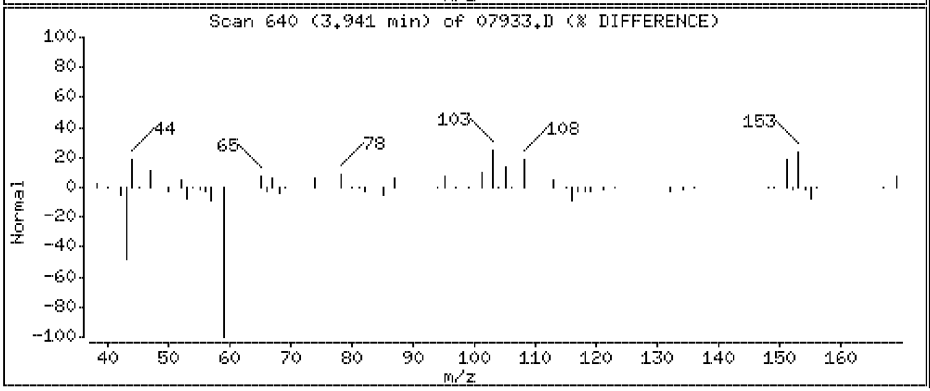
22 Freon 113

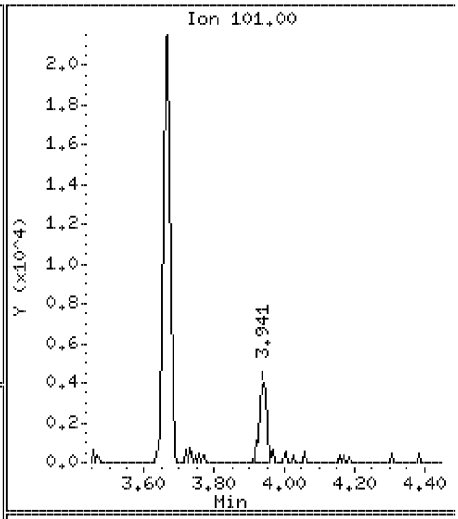
Concentration: 0.101 ppbv

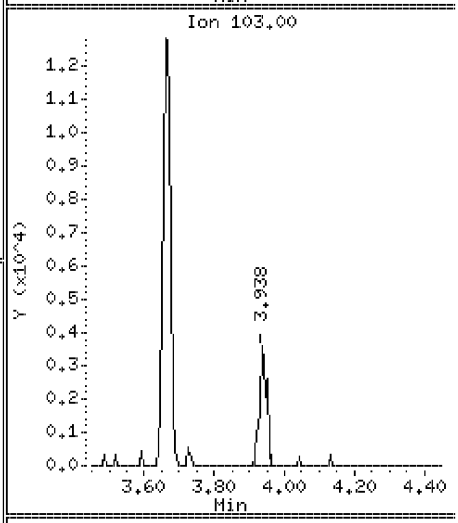


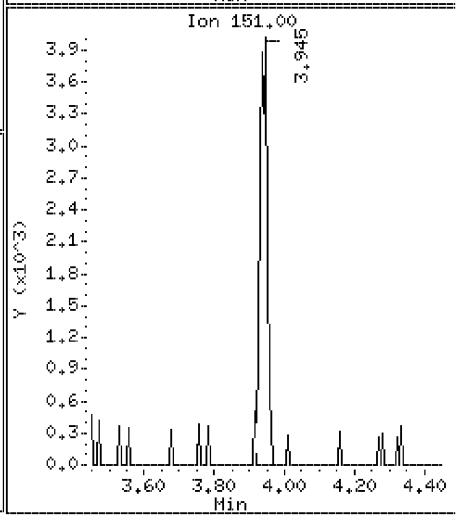












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

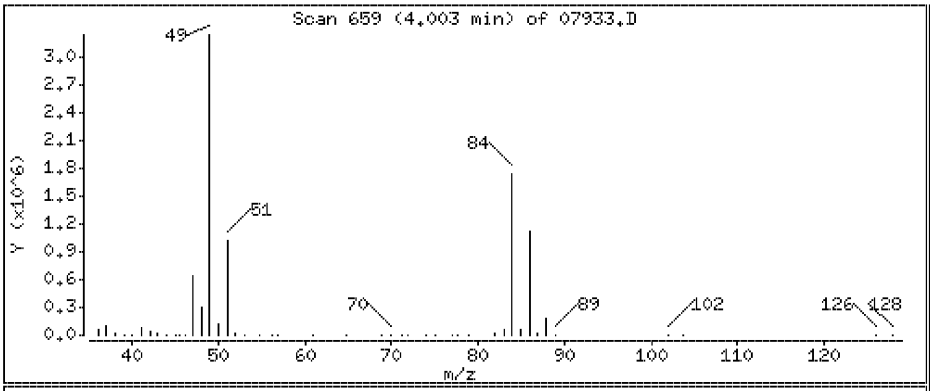
Operator: NCK

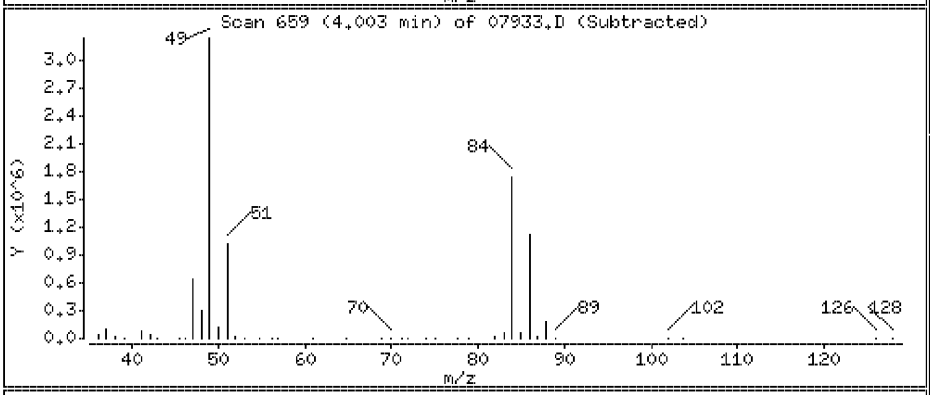
Column phase: J&W DB-5

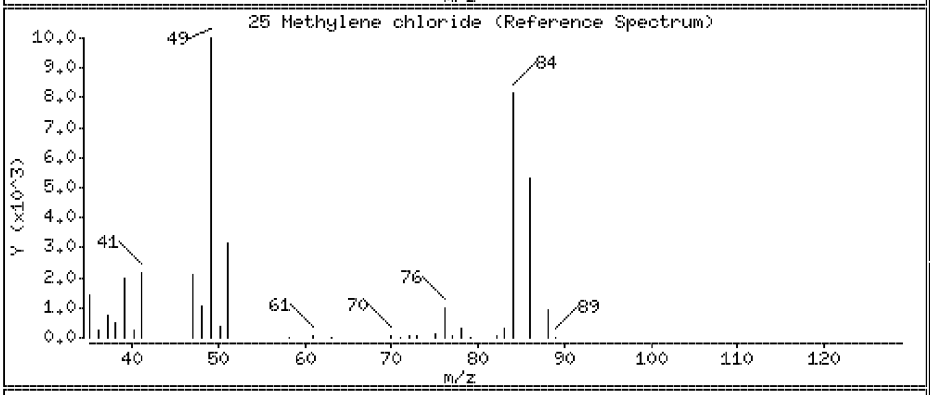
Column diameter: 0.32

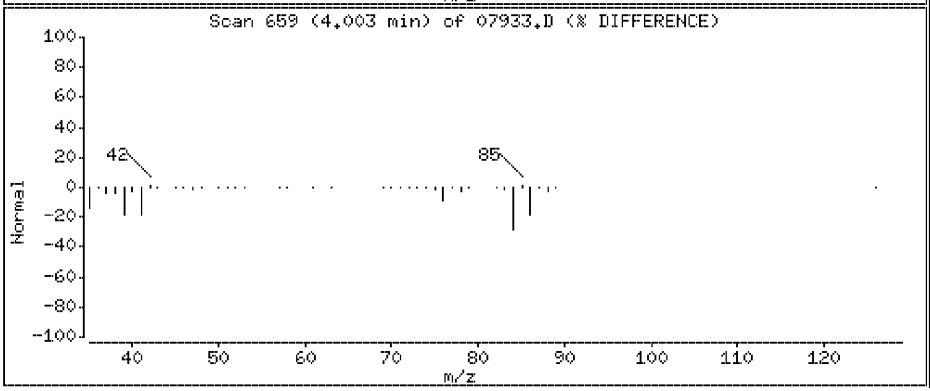
25 Methylene chloride

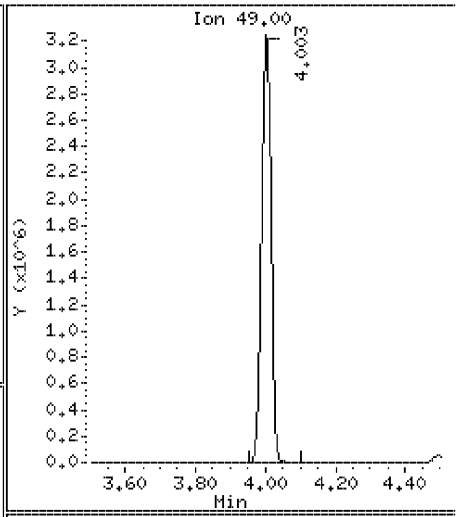
Concentration: 119 ppbv

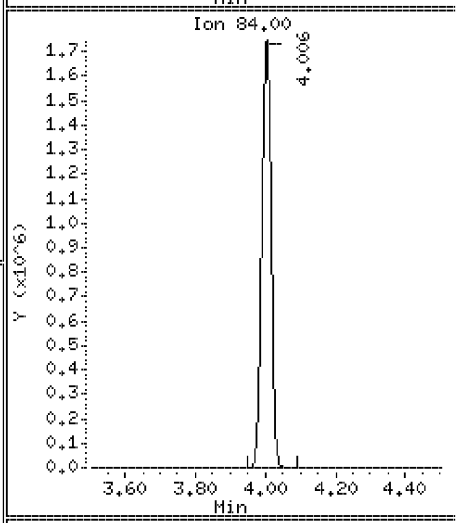


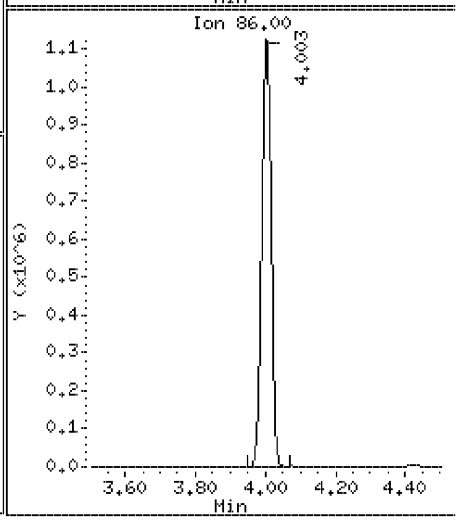












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

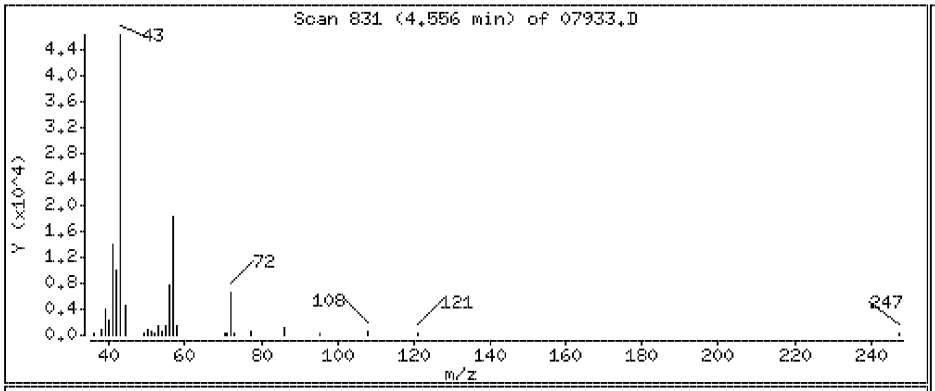
Operator: NCK

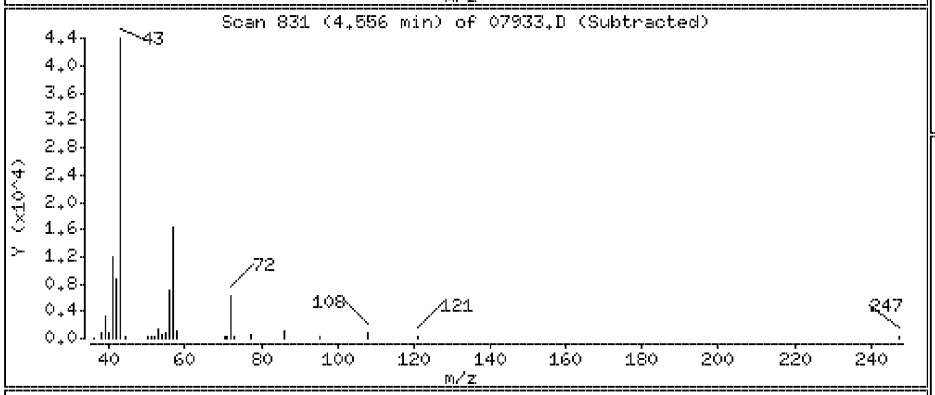
Column phase: J&W DB-5

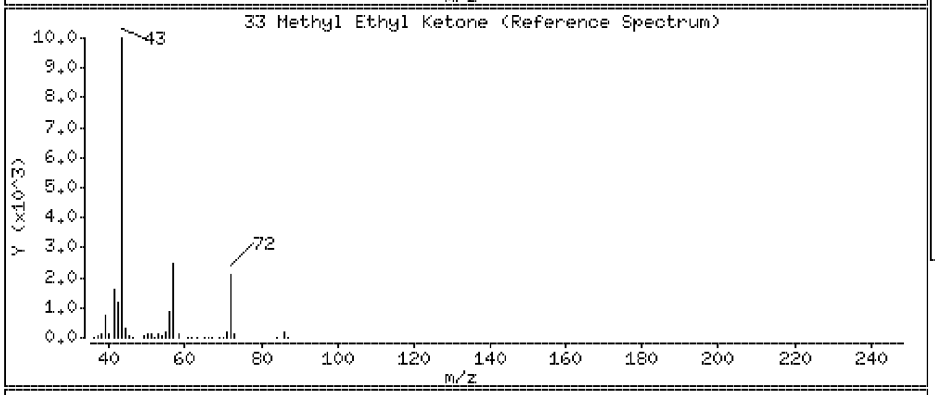
Column diameter: 0.32

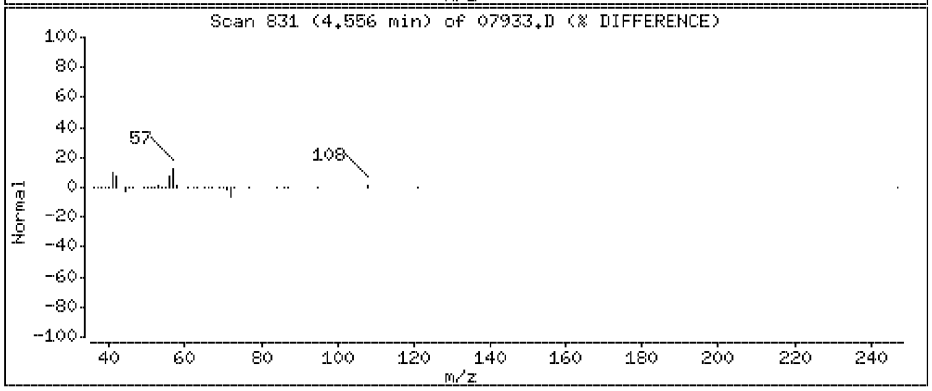
33 Methyl Ethyl Ketone

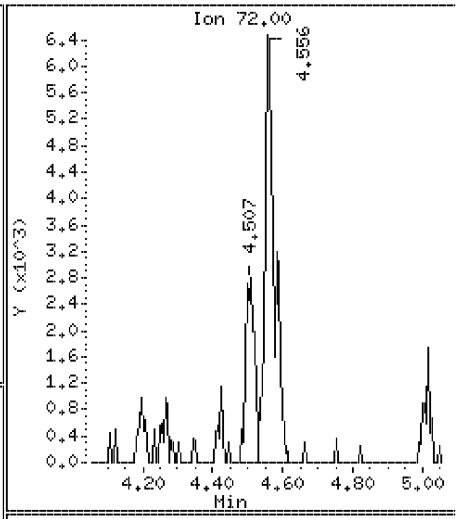
Concentration: 0.865 ppbv

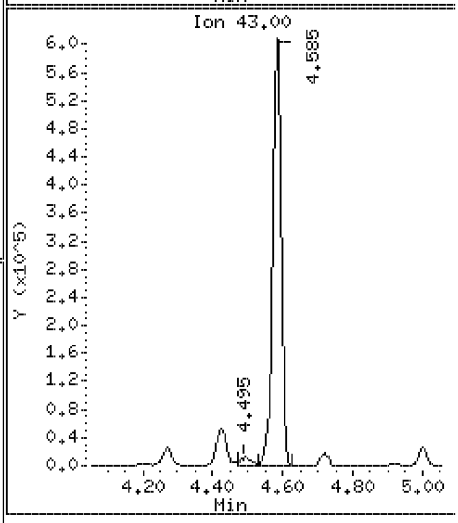












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

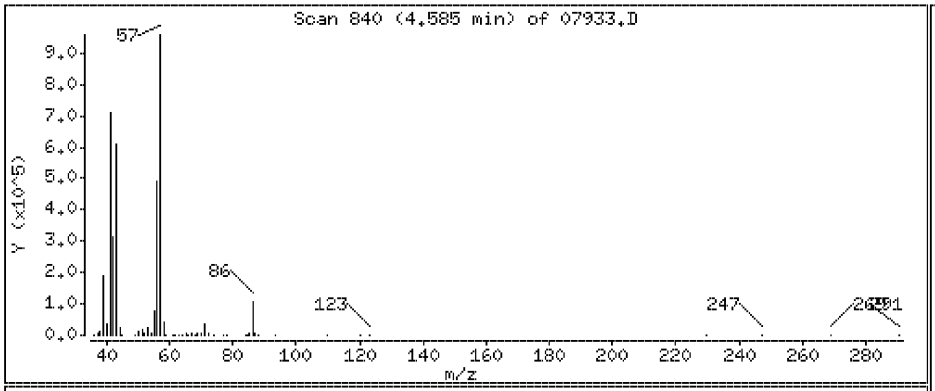
Operator: NCK

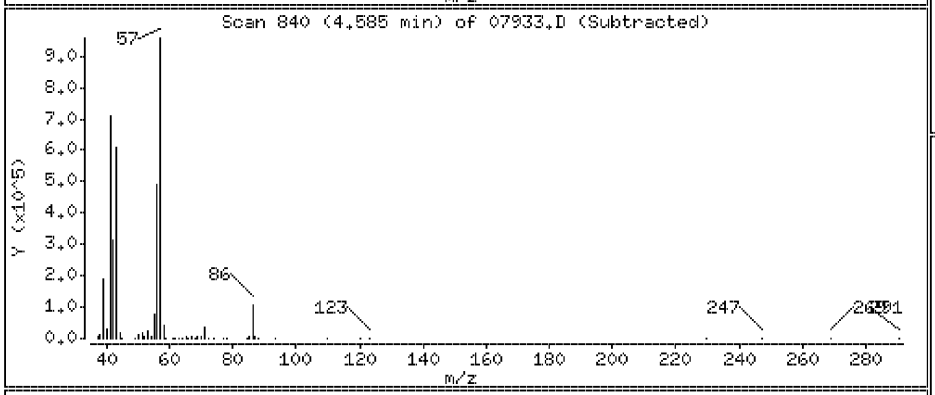
Column phase: J&W DB-5

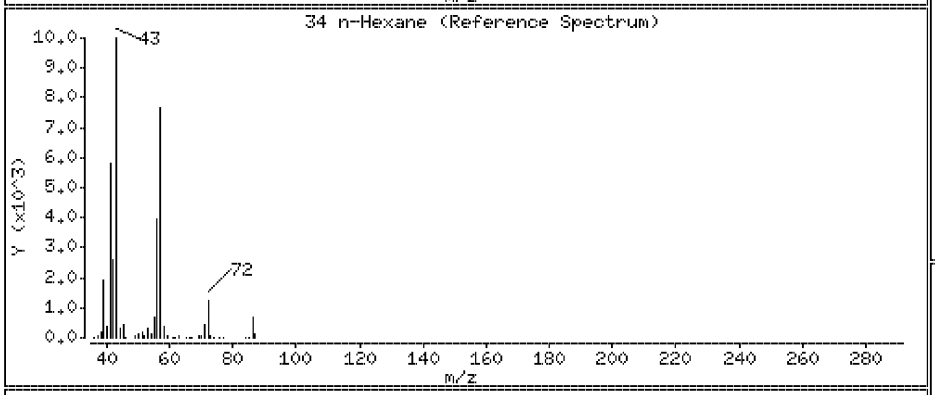
Column diameter: 0.32

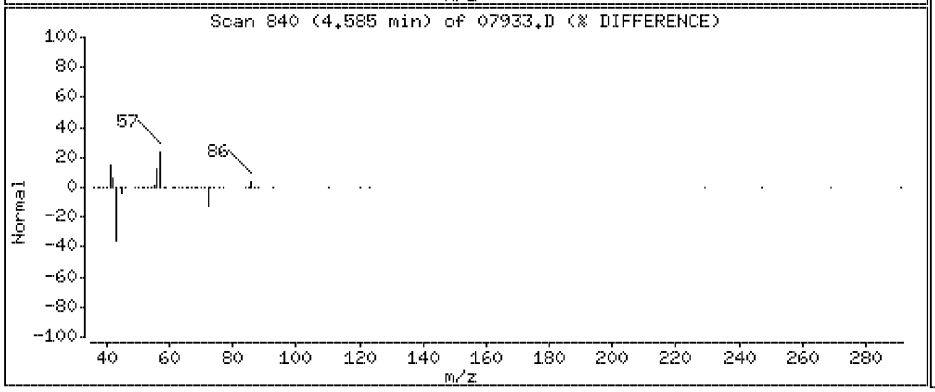
34 n-Hexane

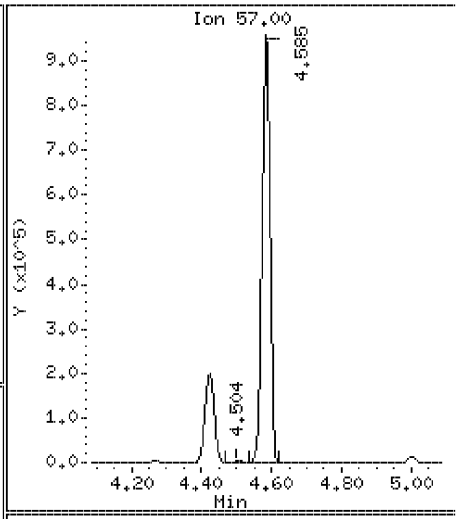
Concentration: 22.3 ppbv

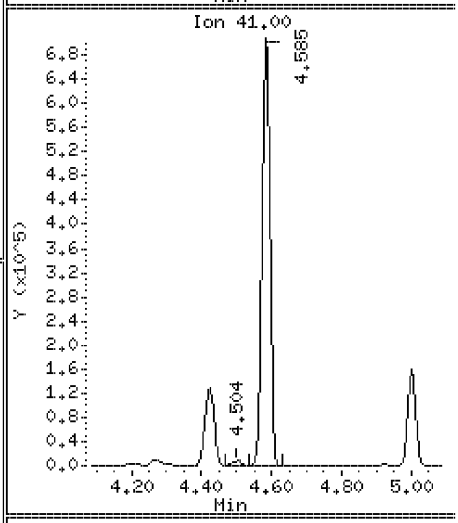


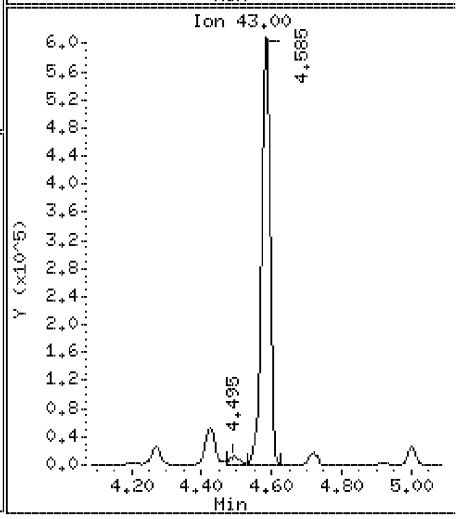












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

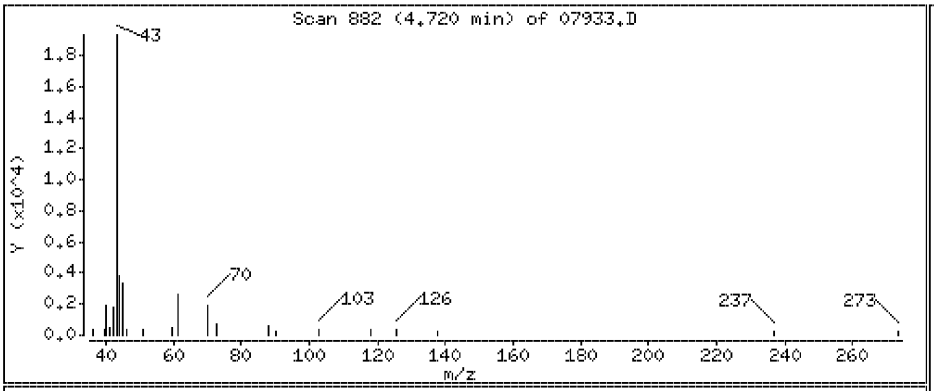
Operator: NCK

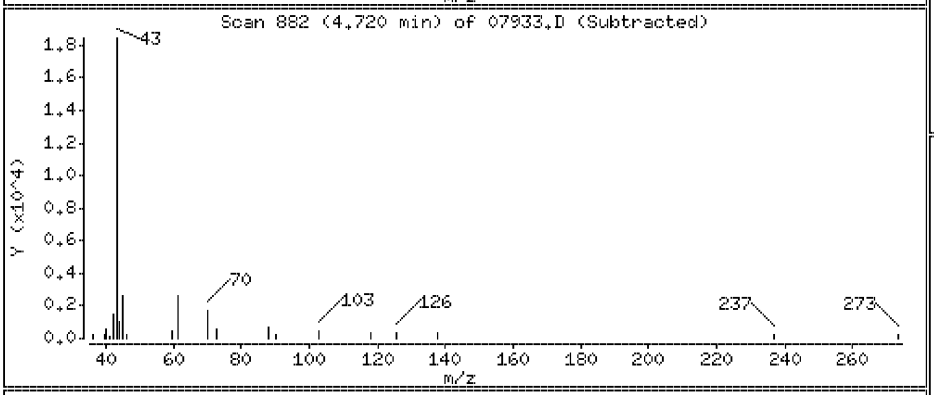
Column phase: J&W DB-5

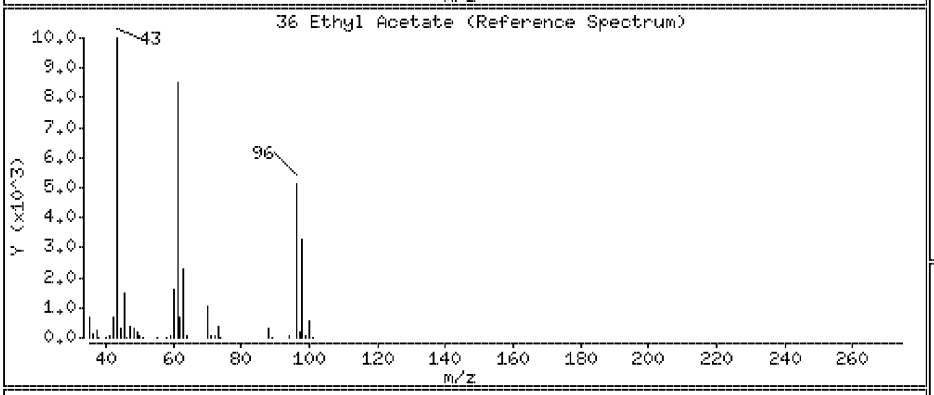
Column diameter: 0.32

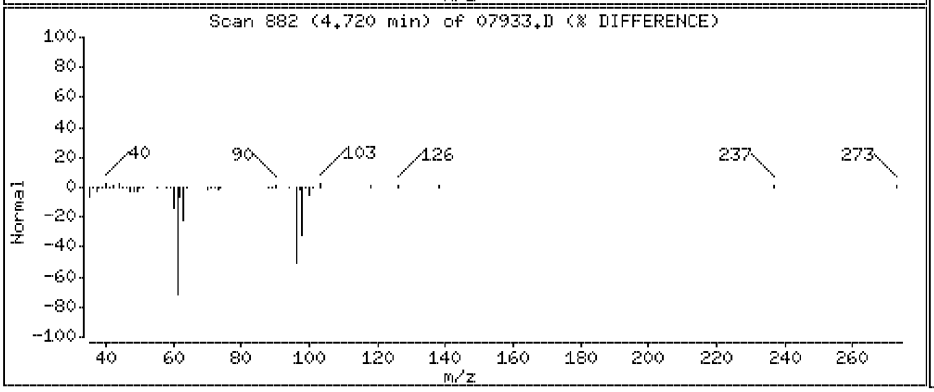
36 Ethyl Acetate

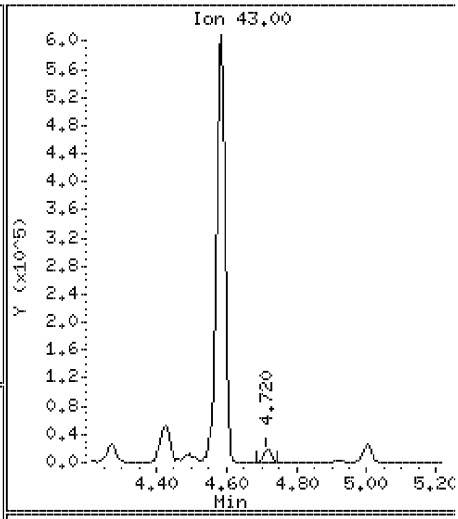
Concentration: 0.297 ppbv

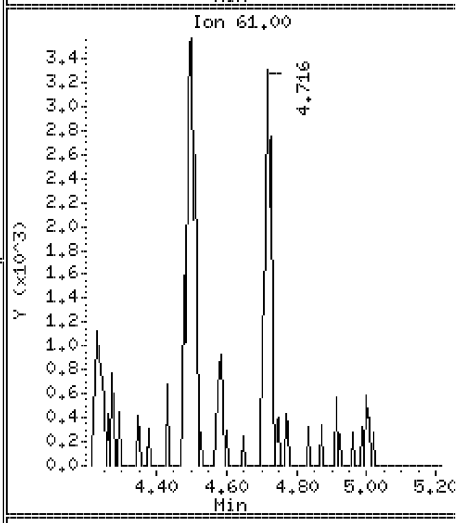


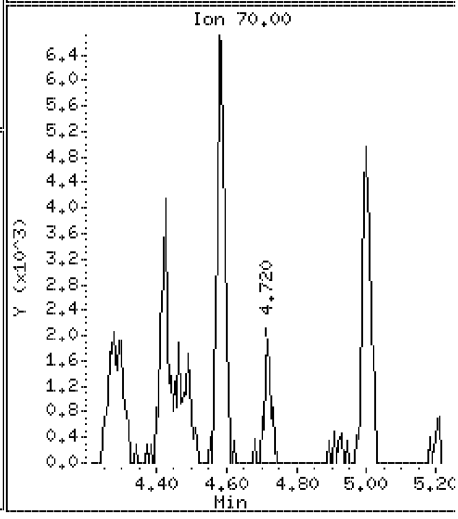












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

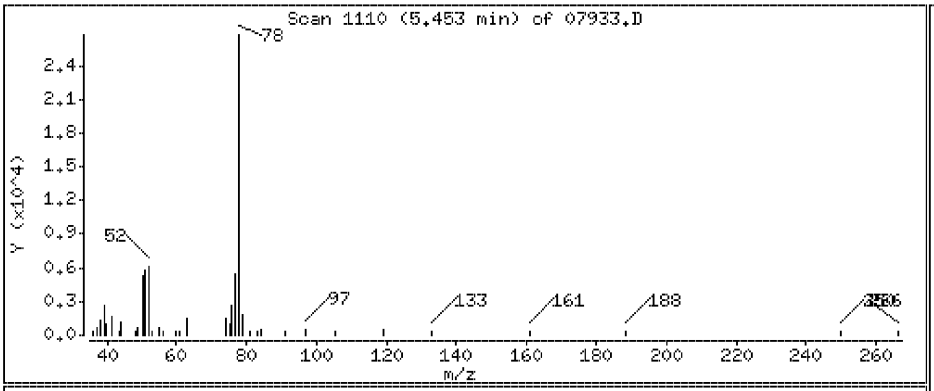
Operator: NCK

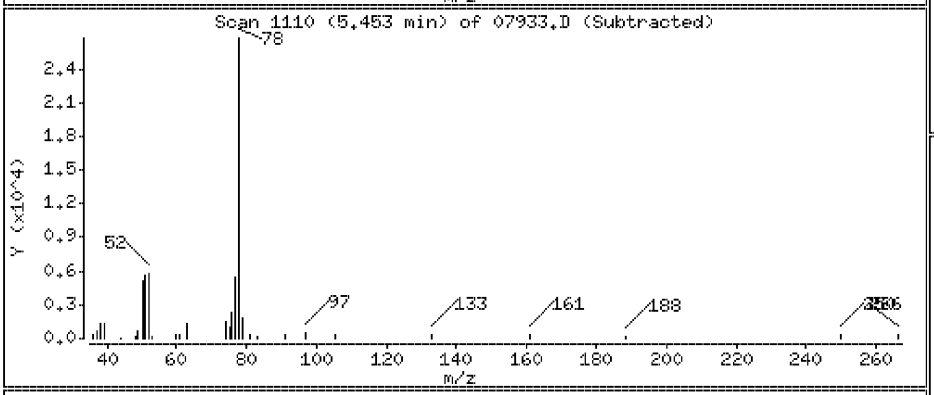
Column phase: J&W DB-5

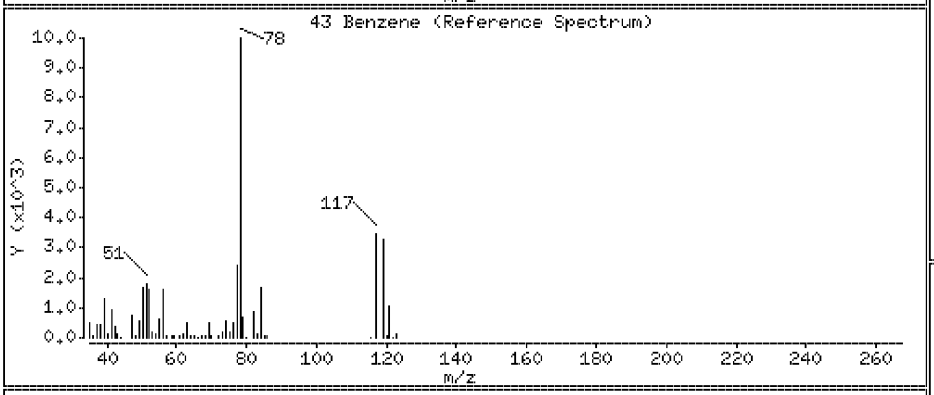
Column diameter: 0.32

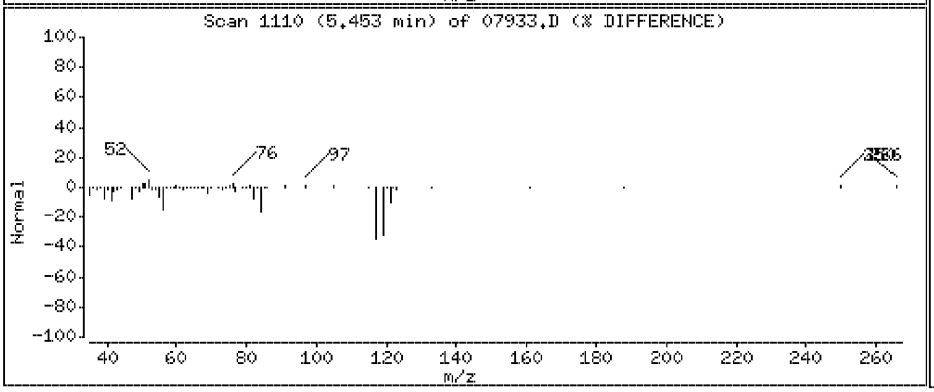
43 Benzene

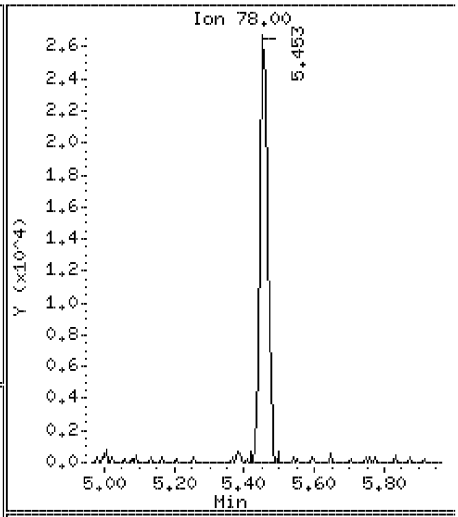
Concentration: 0.375 ppbv

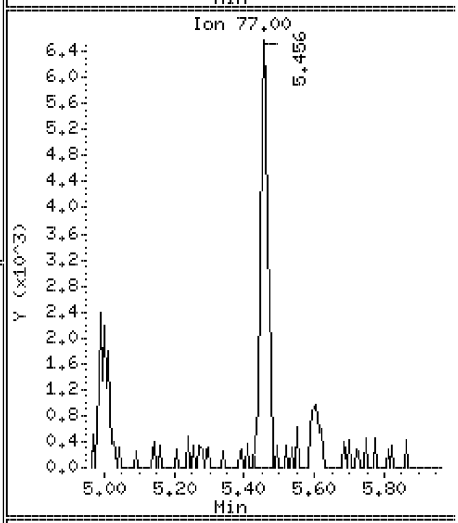


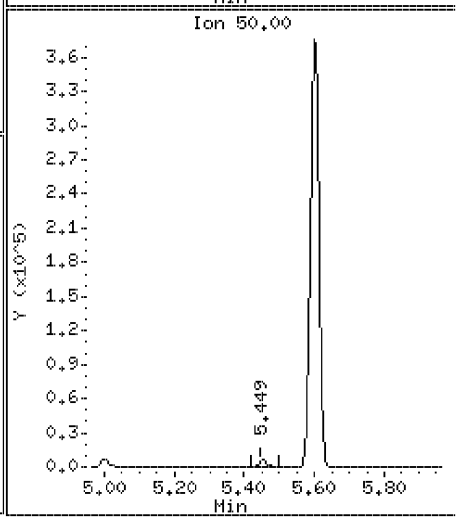












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

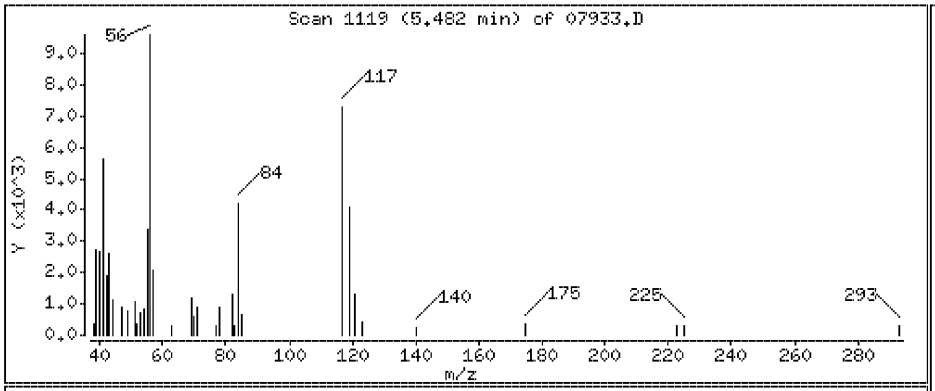
Operator: NCK

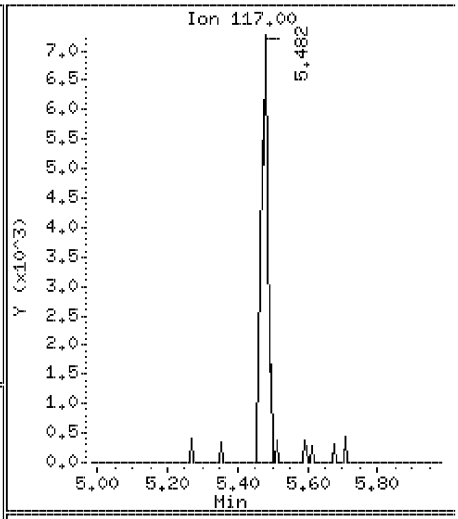
Column phase: J&W DB-5

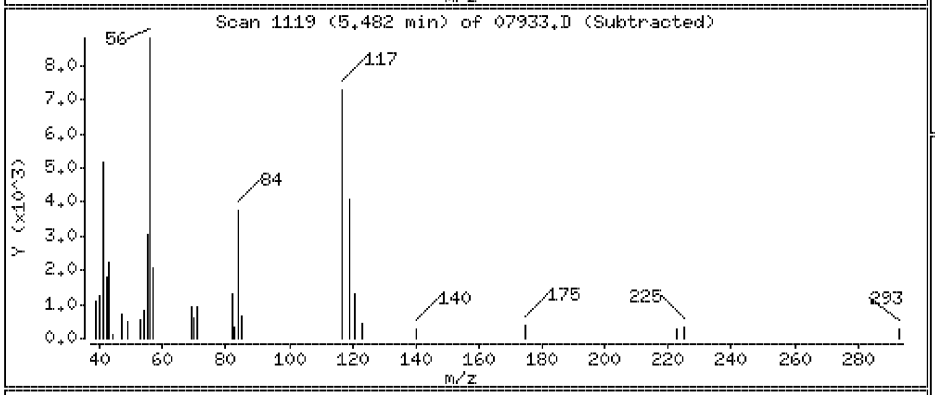
Column diameter: 0.32

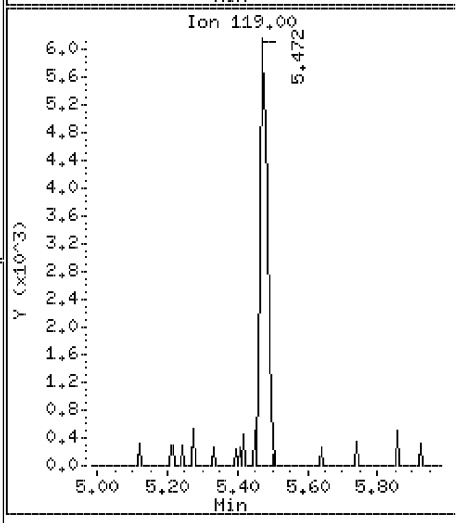
44 Carbon tetrachloride

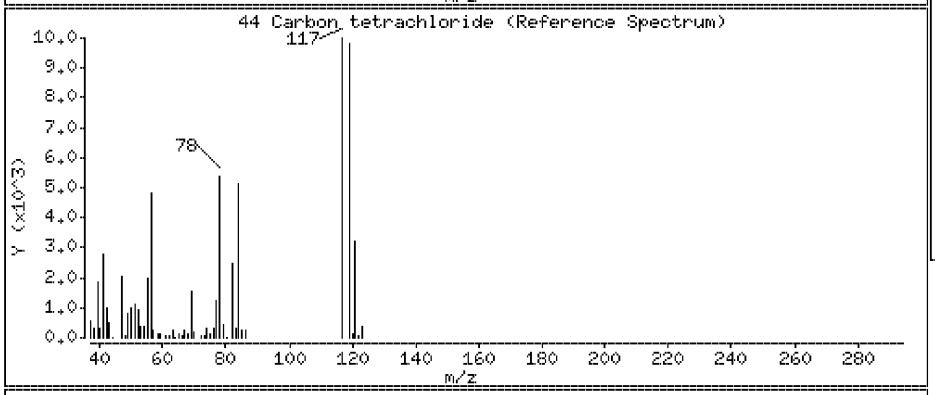
Concentration: 0.113 ppbv

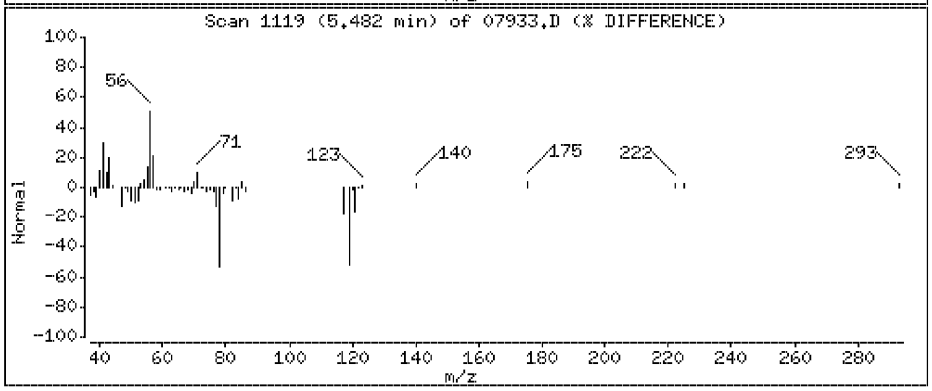












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

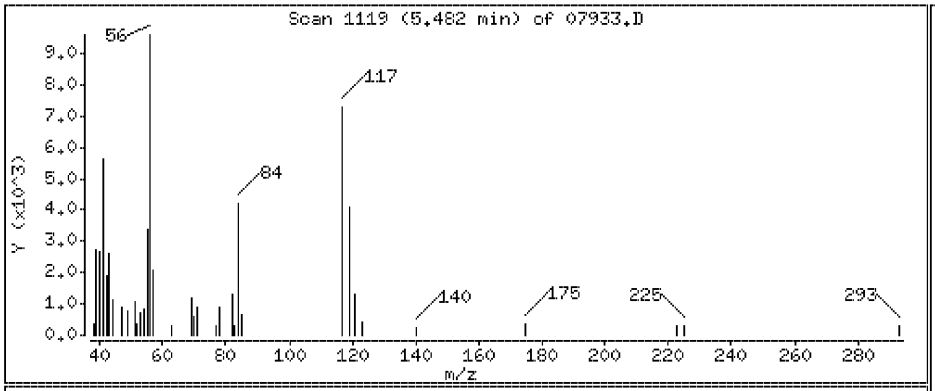
Operator: NCK

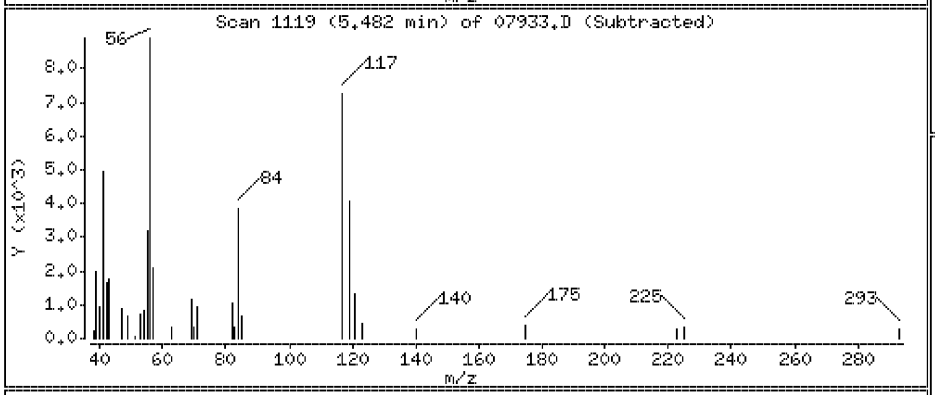
Column phase: J&W DB-5

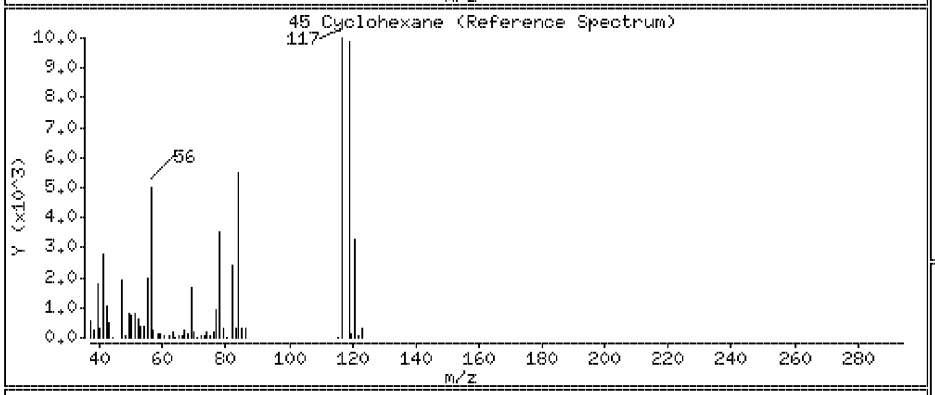
Column diameter: 0.32

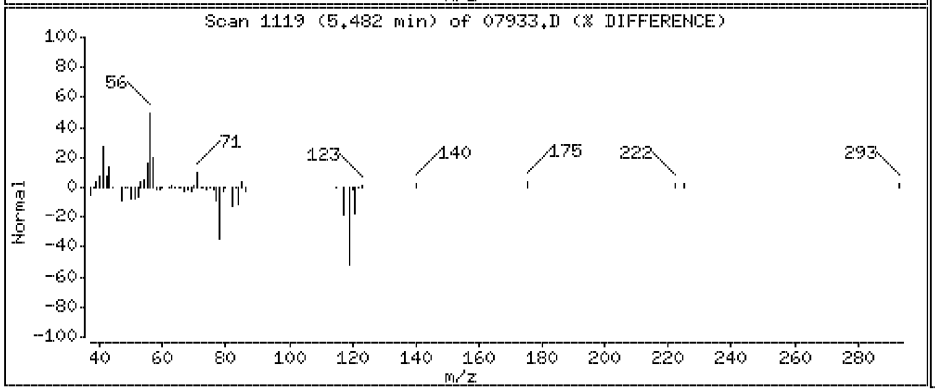
45 Cyclohexane

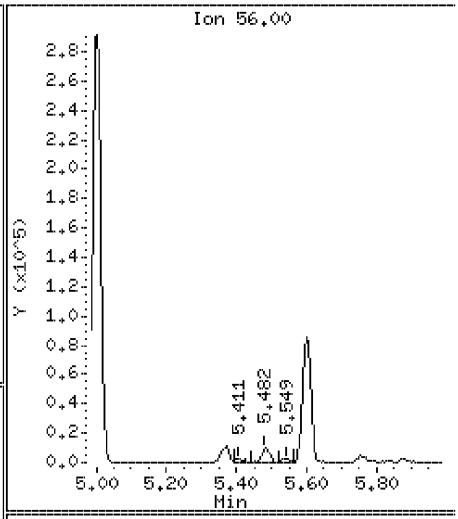
Concentration: 0.248 ppbv

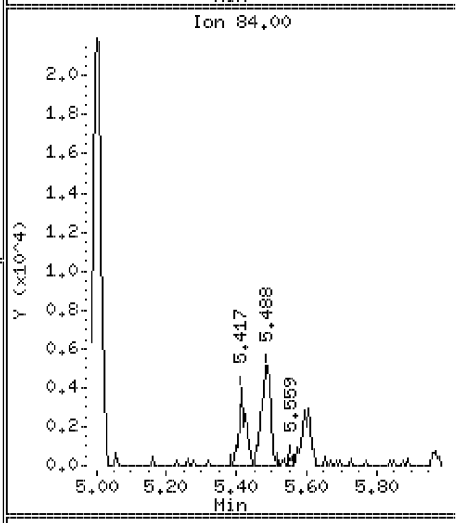


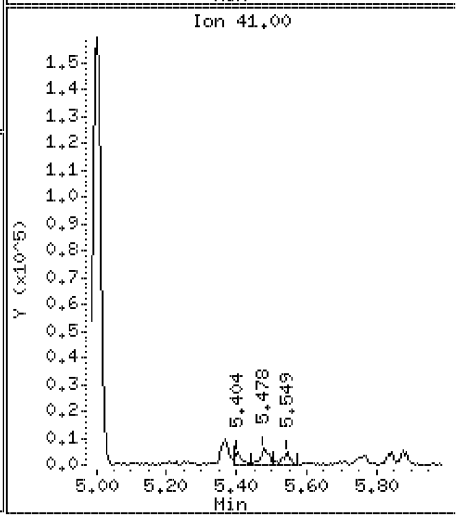












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

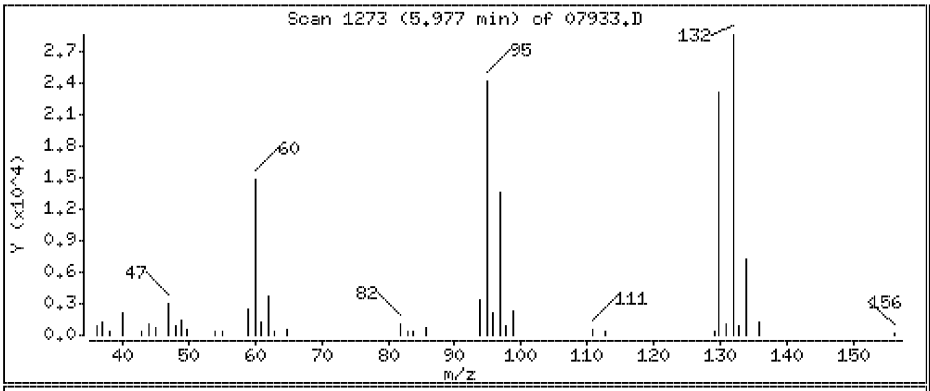
Operator: NCK

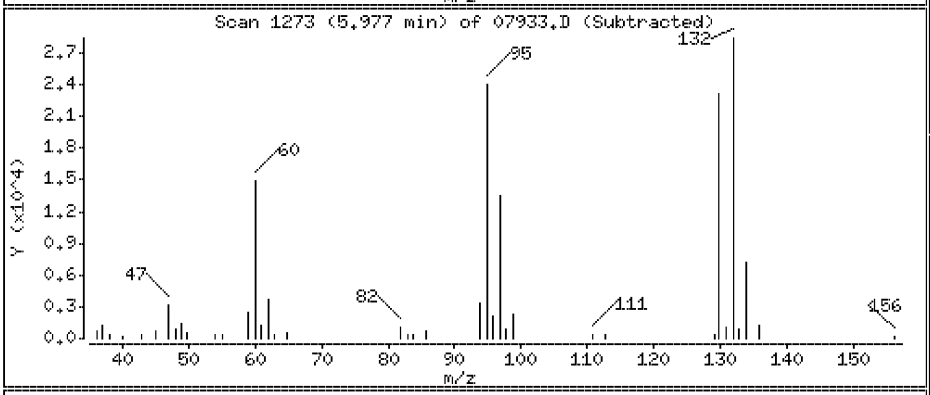
Column phase: J&W DB-5

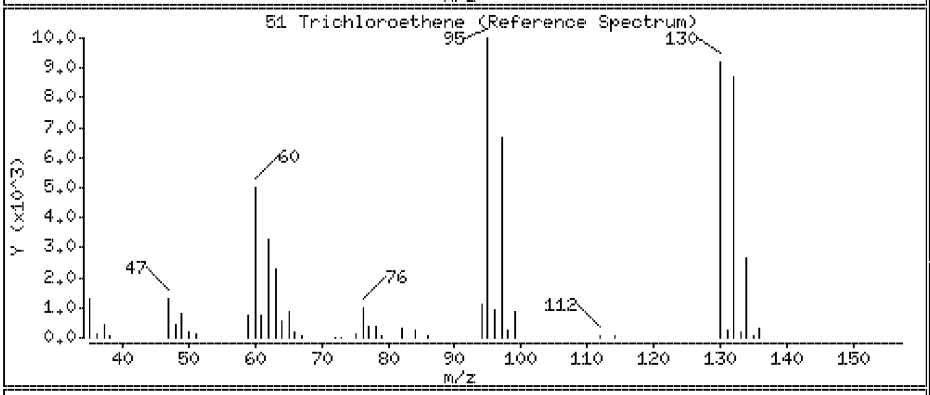
Column diameter: 0.32

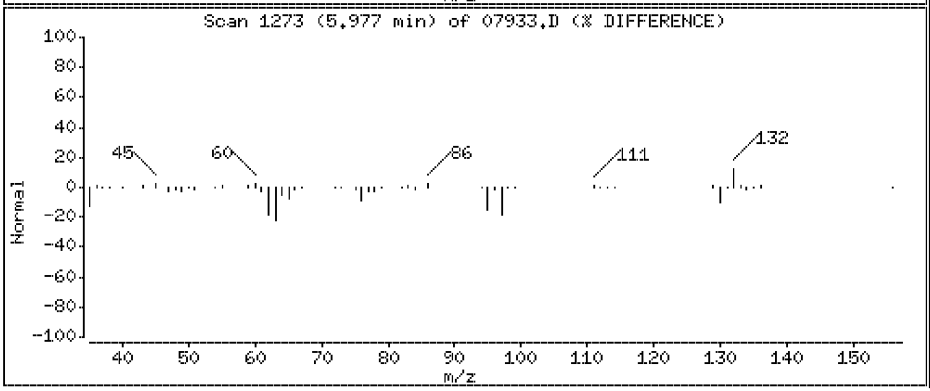
51 Trichloroethene

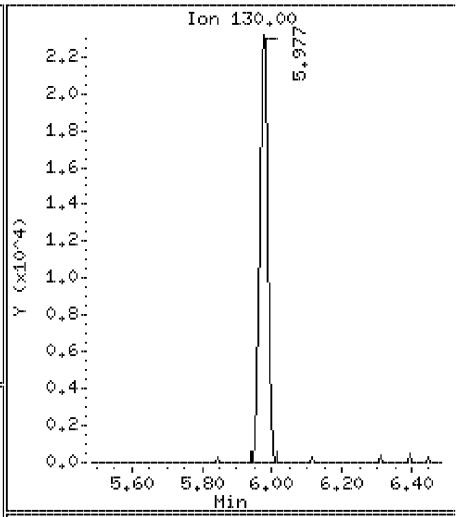
Concentration: 0.709 ppbv

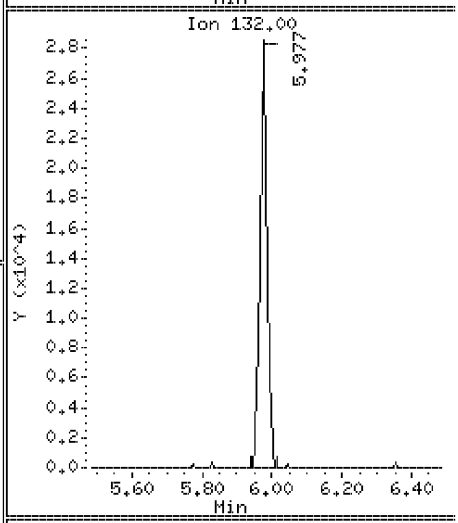


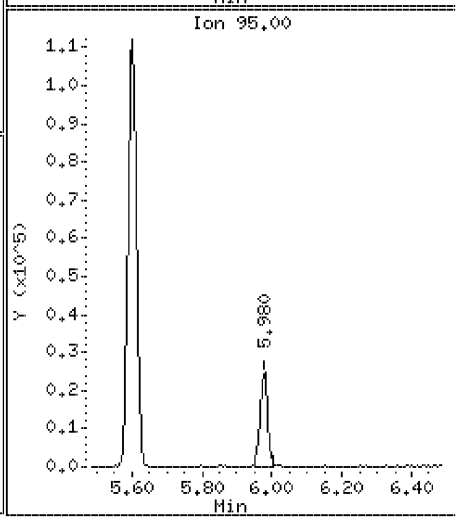












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

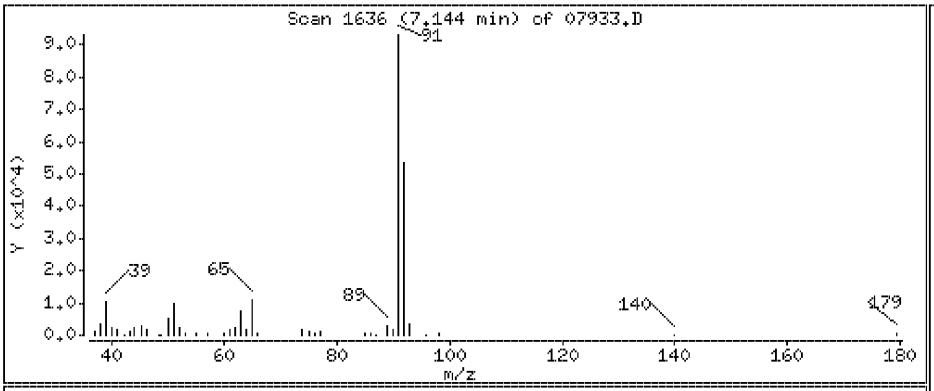
Operator: NCK

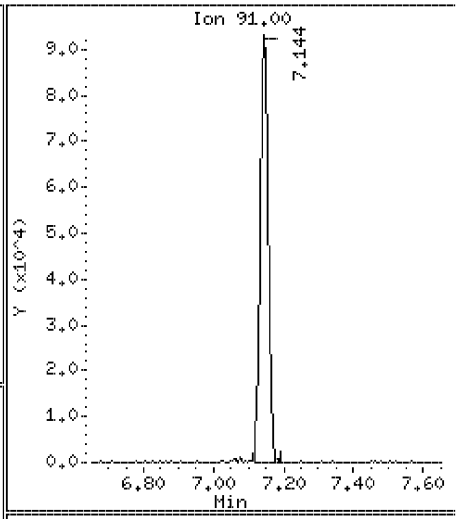
Column phase: J&W DB-5

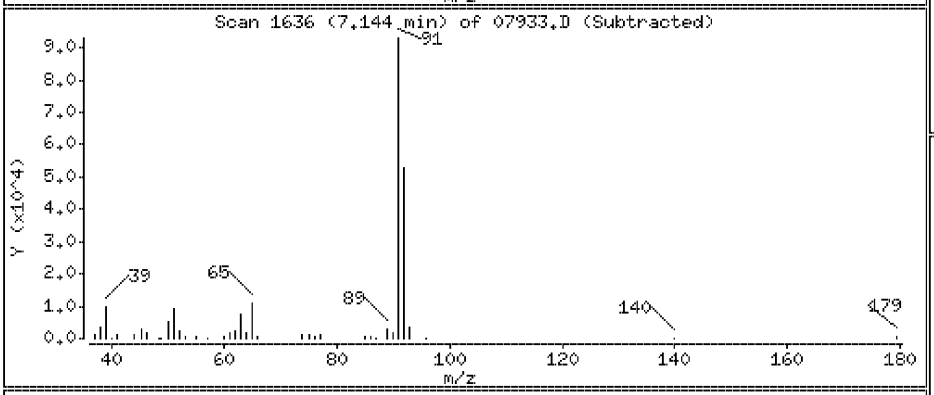
Column diameter: 0.32

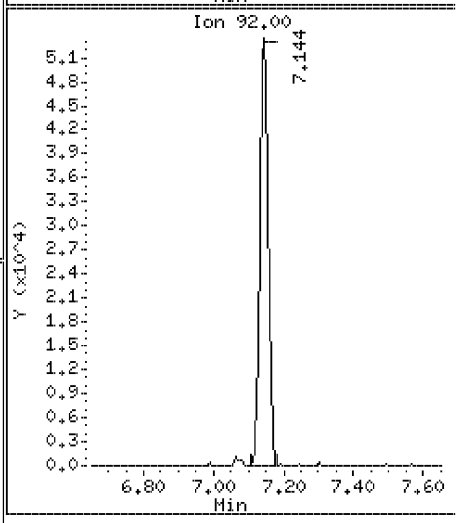
61 Toluene

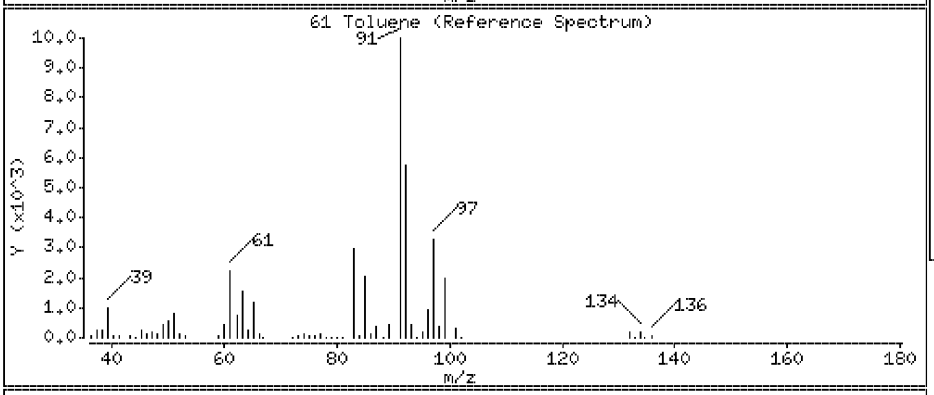
Concentration: 1.15 ppbv

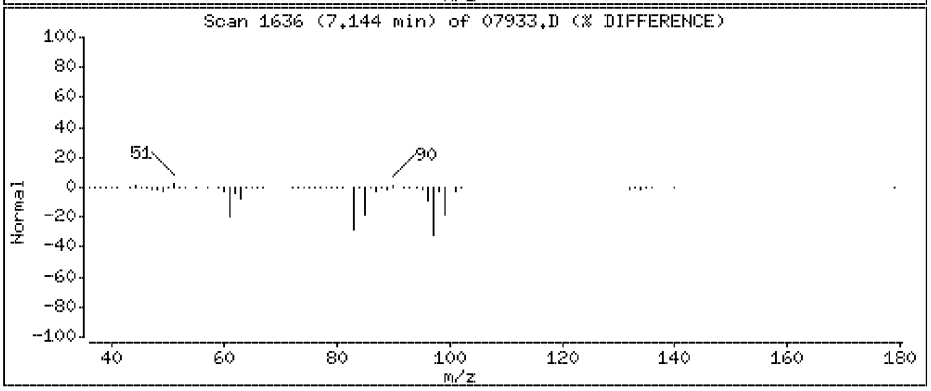












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

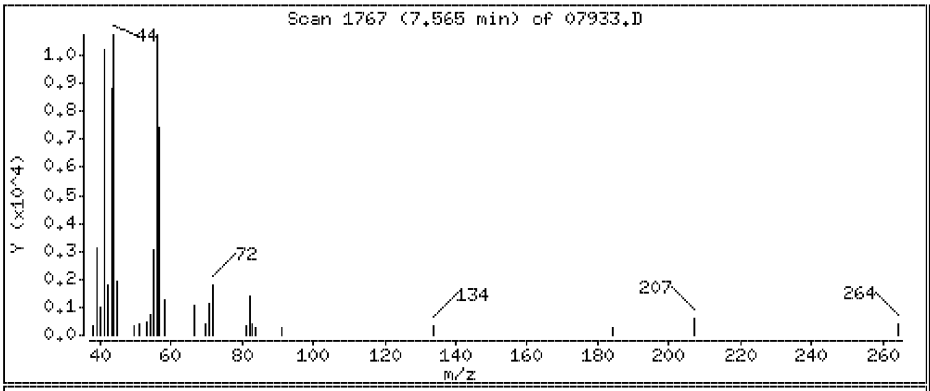
Operator: NCK

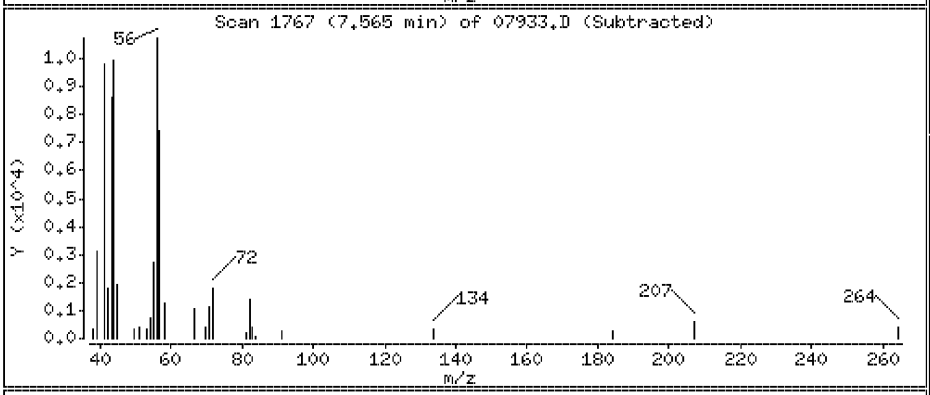
Column phase: J&W DB-5

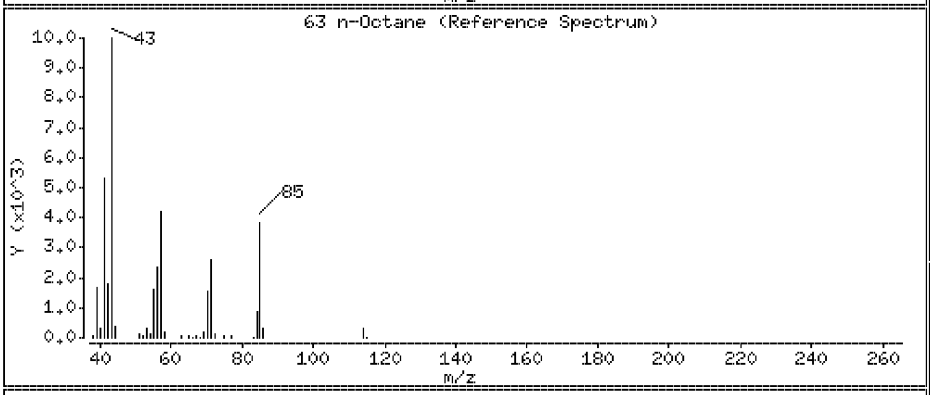
Column diameter: 0.32

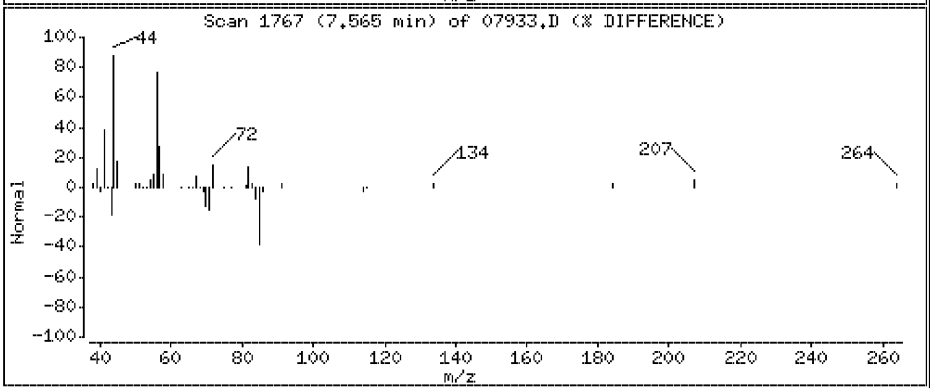
63 n-Octane

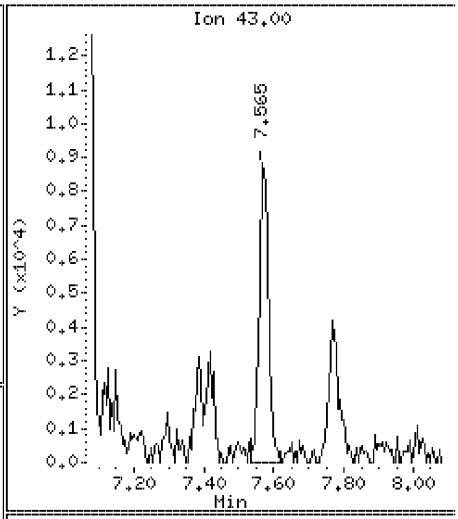
Concentration: 0.173 ppbv

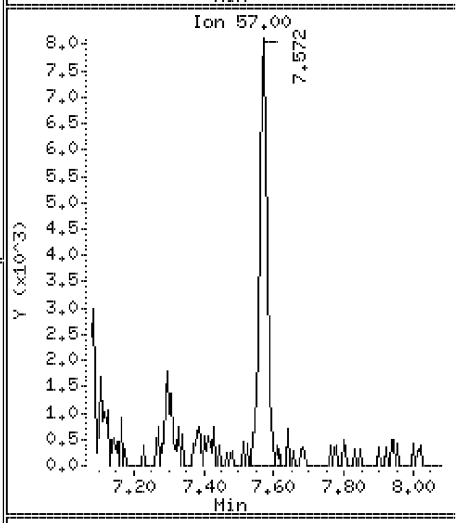


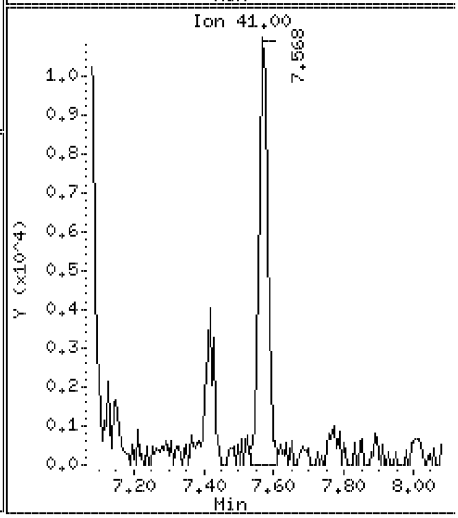












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

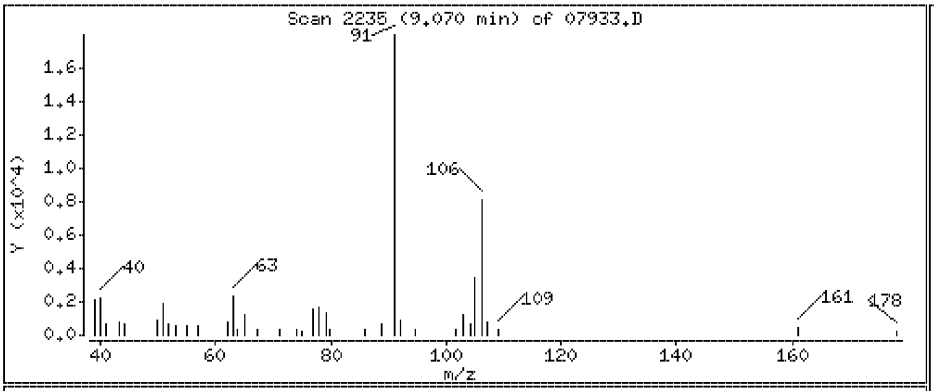
Operator: NCK

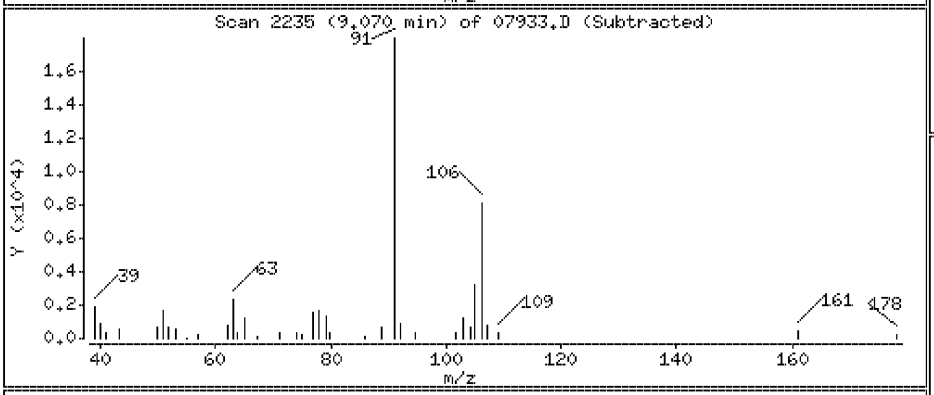
Column phase: J&W DB-5

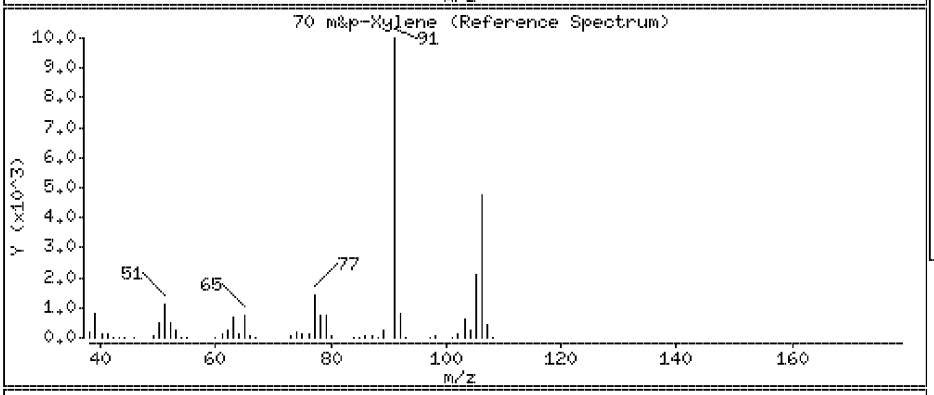
Column diameter: 0.32

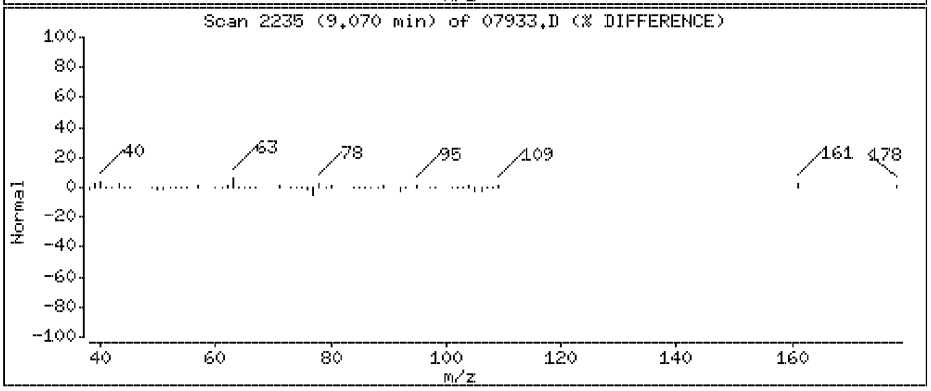
70 m&p-Xylene

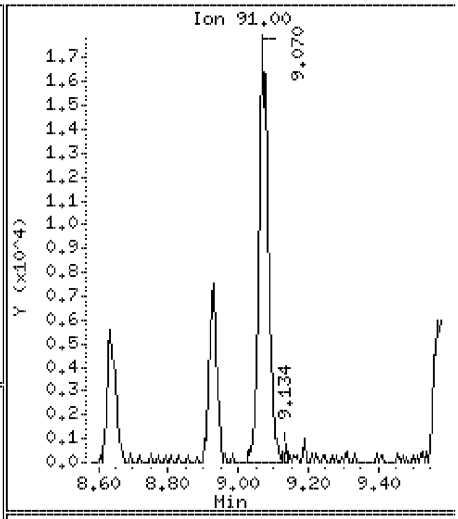
Concentration: 0.520 ppbv

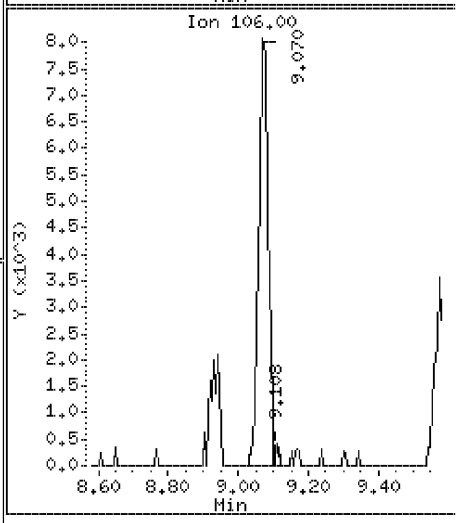












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

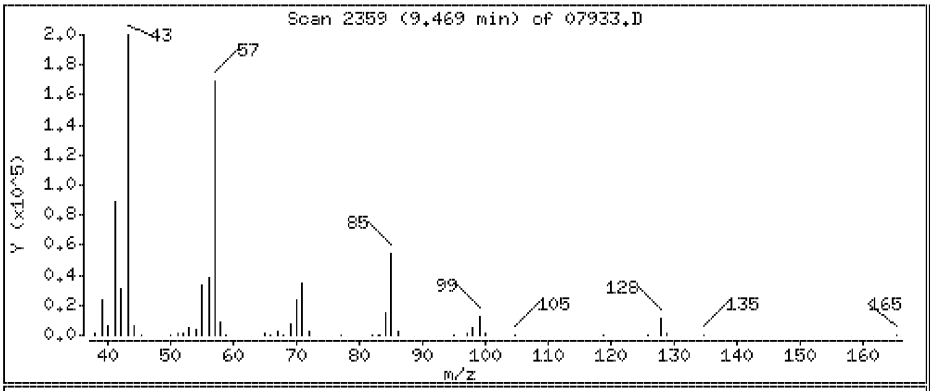
Operator: NCK

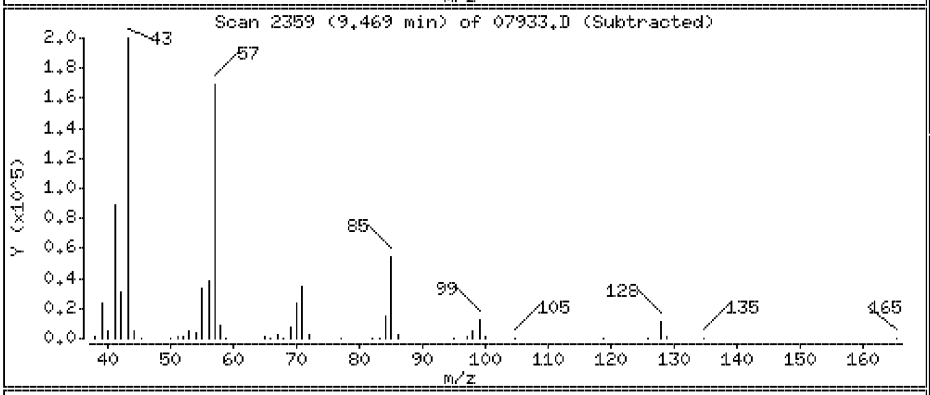
Column phase: J&W DB-5

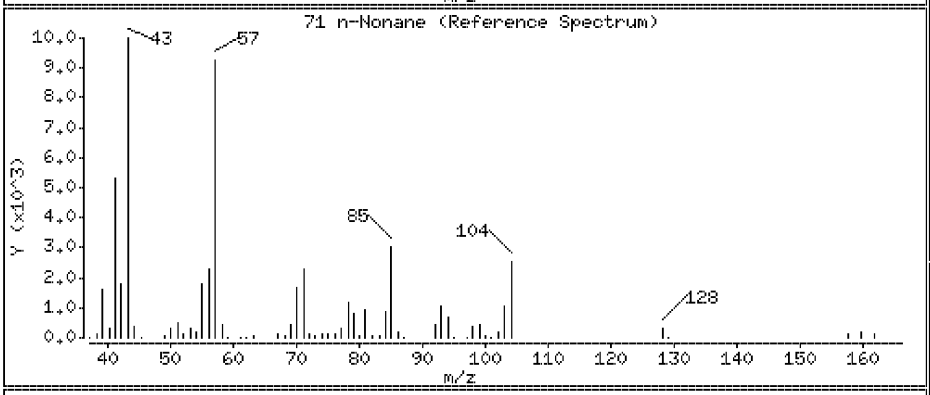
Column diameter: 0.32

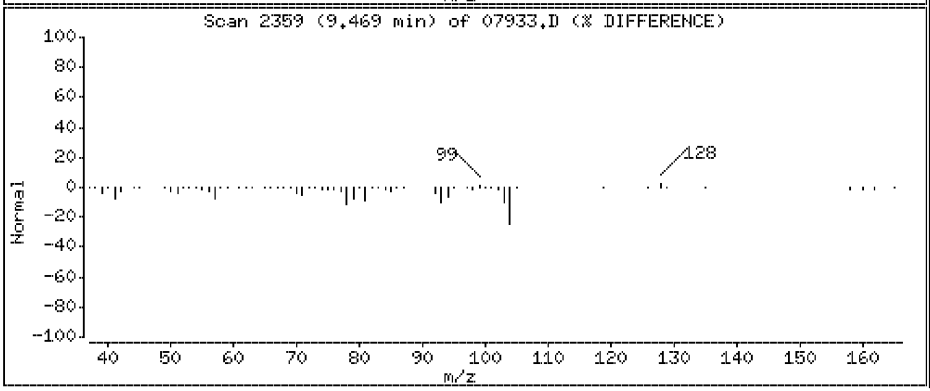
71 n-Nonane

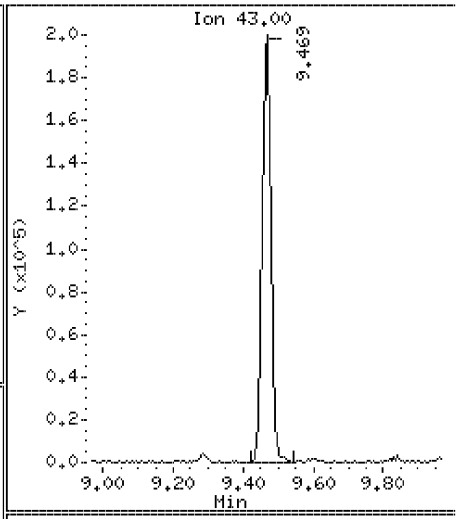
Concentration: 4.47 ppbv

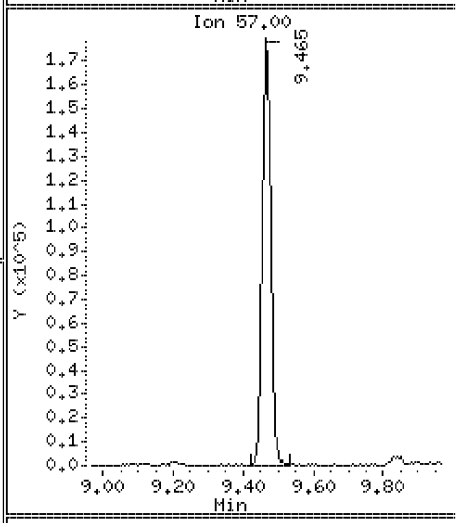


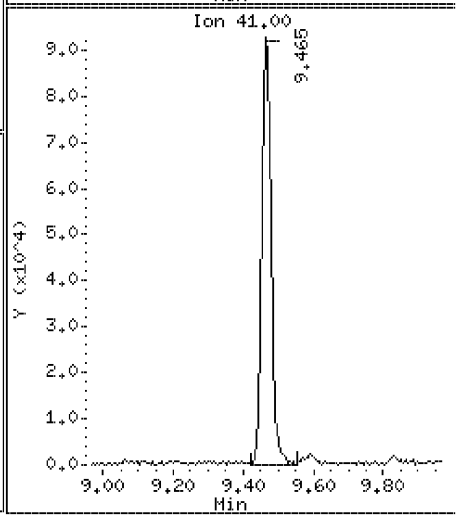












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

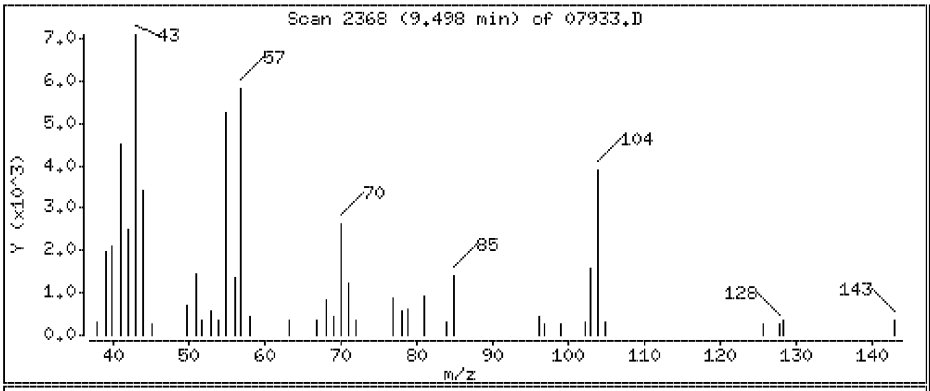
Operator: NCK

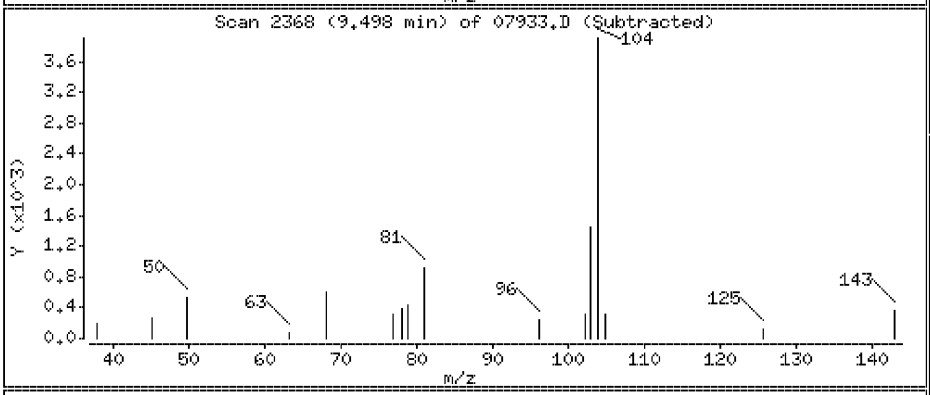
Column phase: J&W DB-5

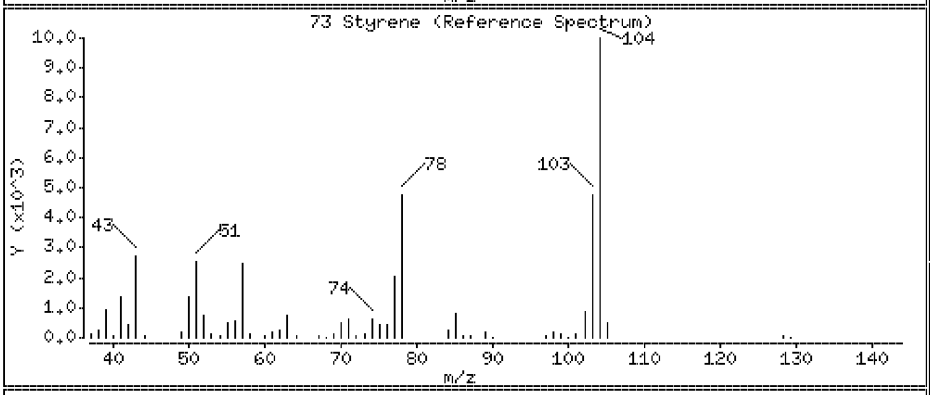
Column diameter: 0.32

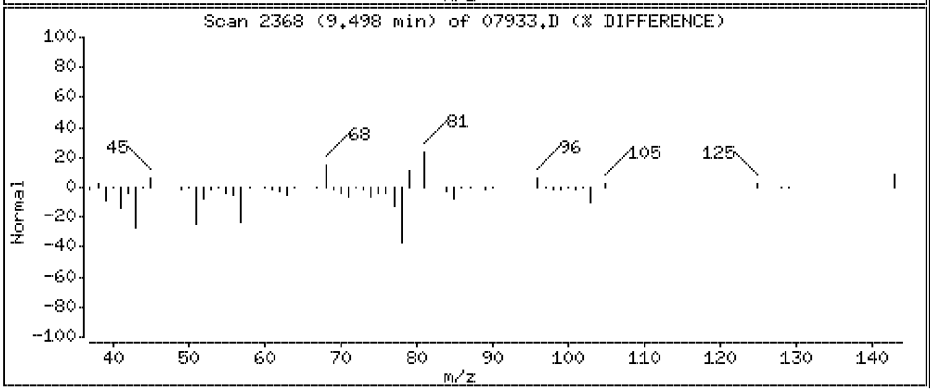
73 Styrene

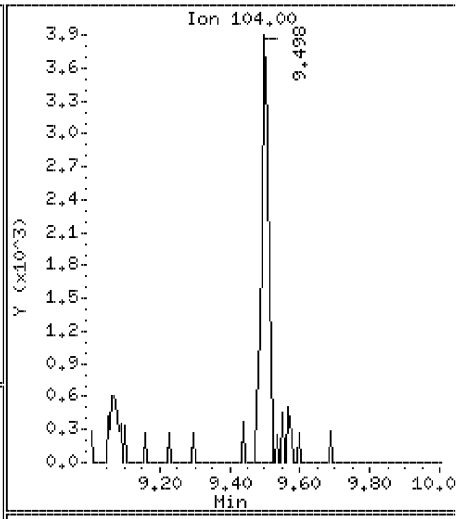
Concentration: 0.271 ppbv

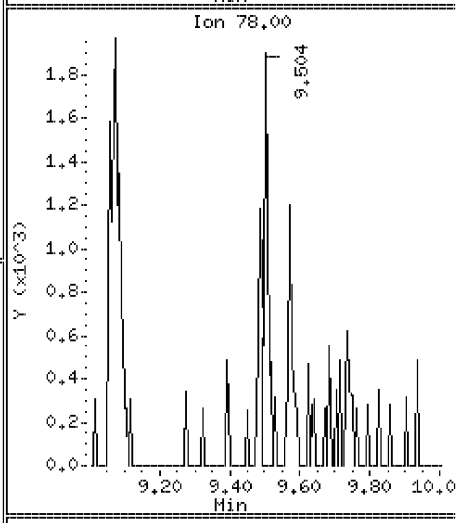


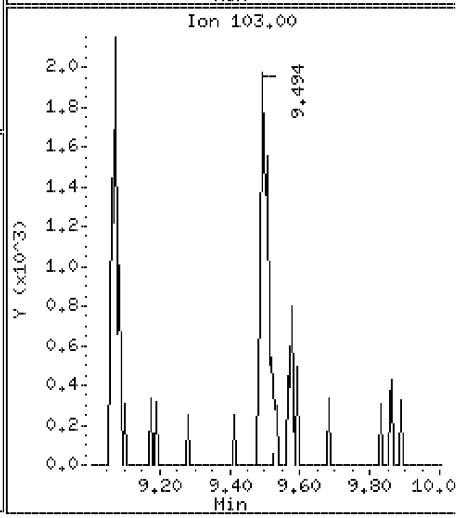












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

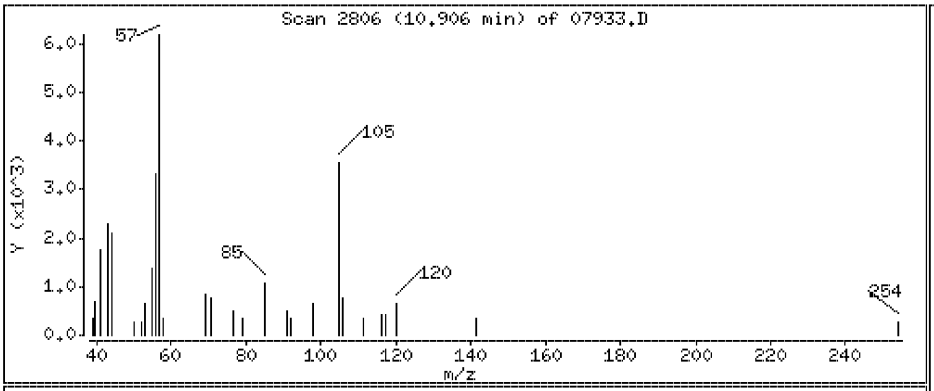
Operator: NCK

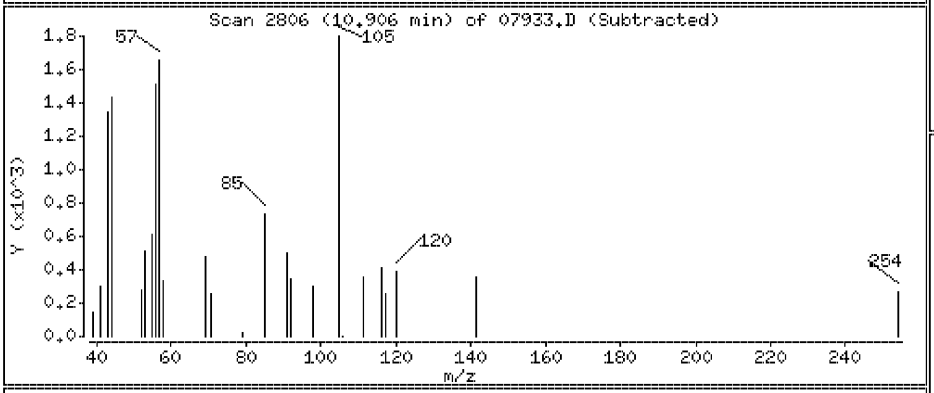
Column phase: J&W DB-5

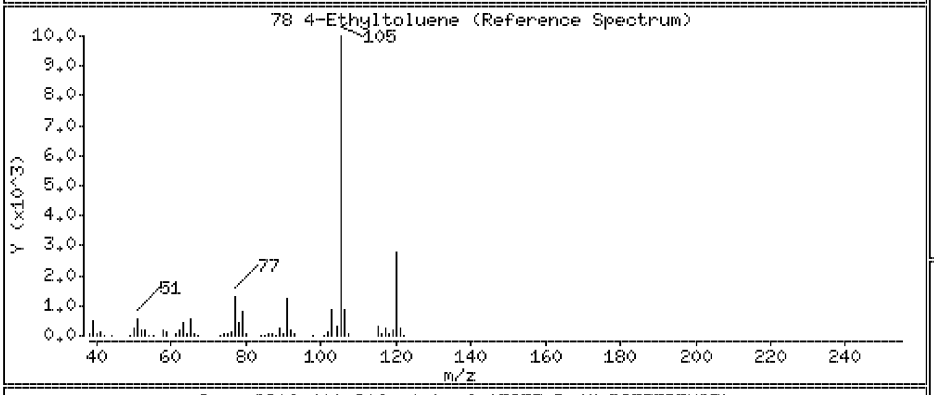
Column diameter: 0.32

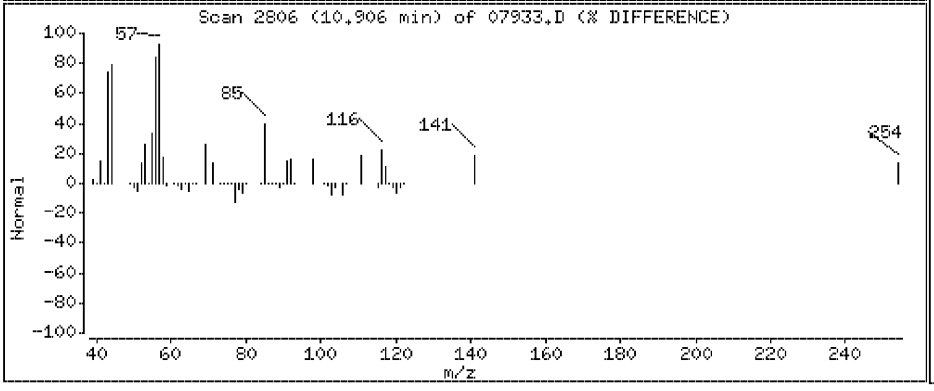
78 4-Ethyltoluene

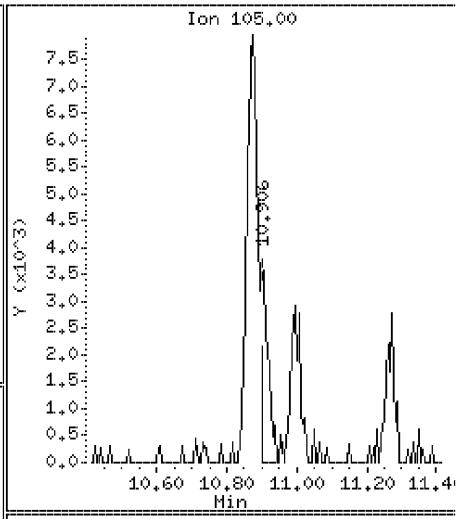
Concentration: 0.289 ppbv

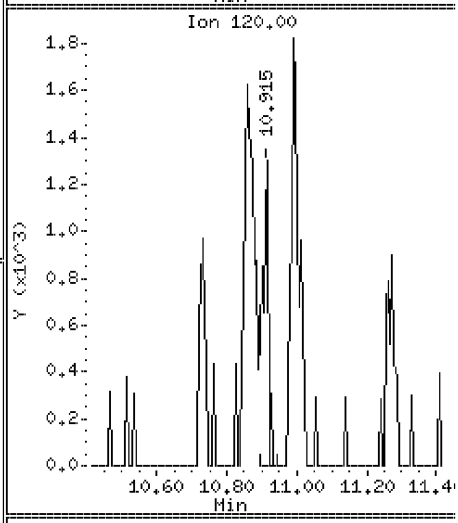


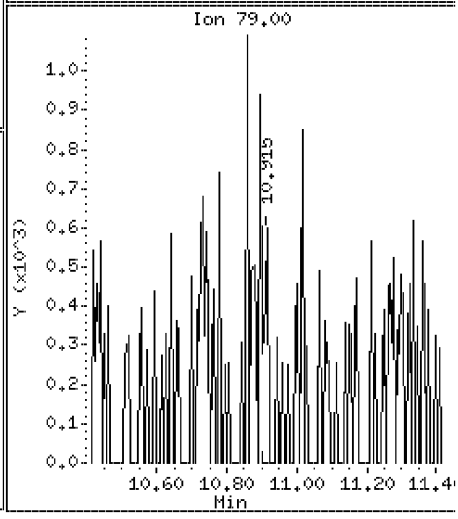












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

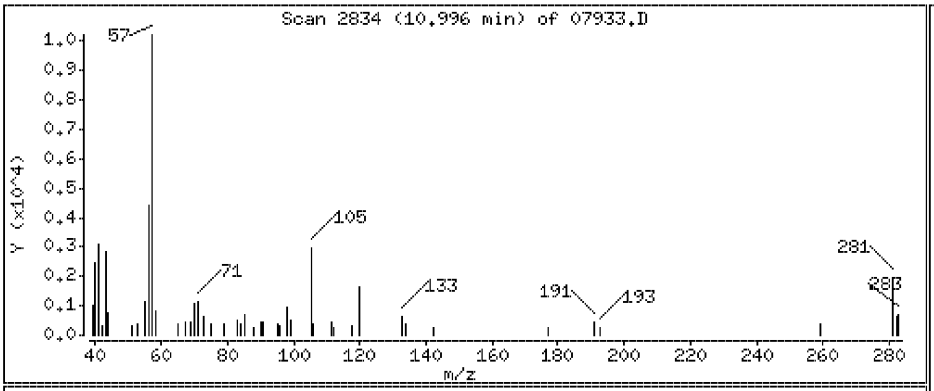
Operator: NCK

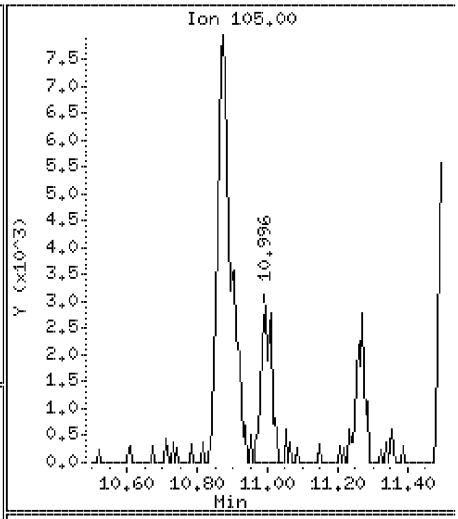
Column phase: J&W DB-5

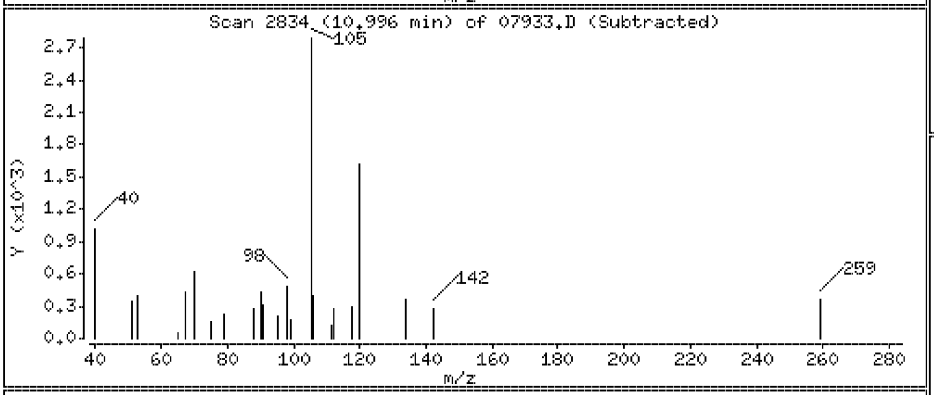
Column diameter: 0.32

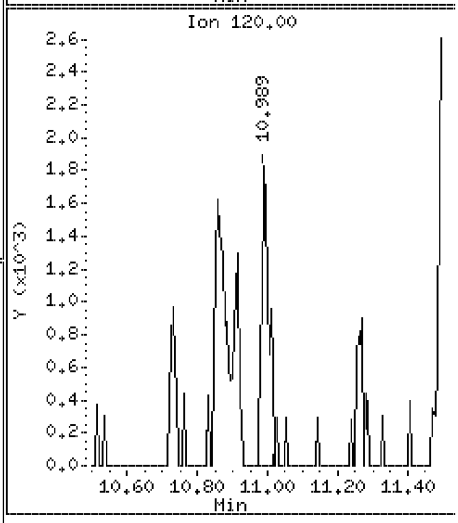
79 1,3,5-Trimethylbenzene

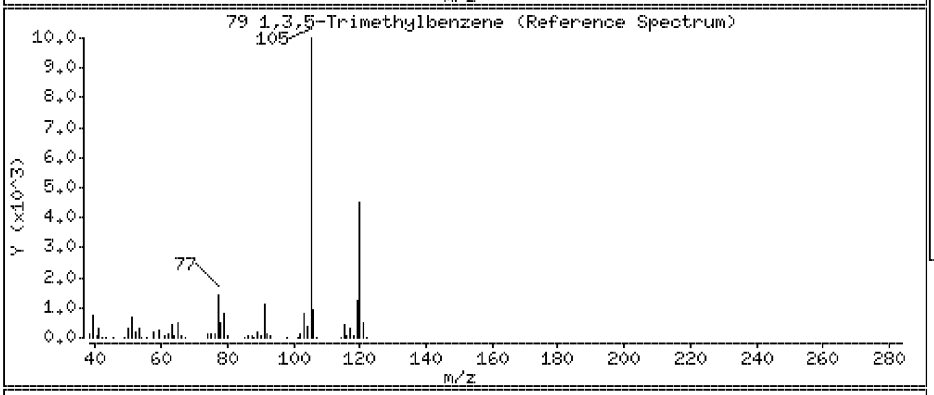
Concentration: 0.272 ppbv

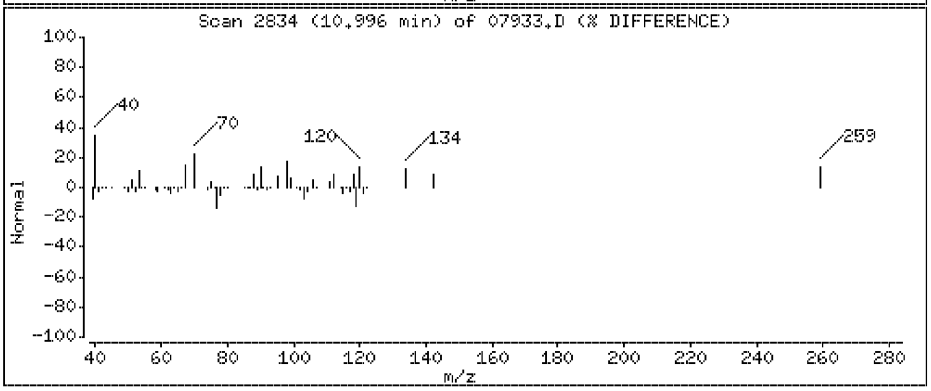












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

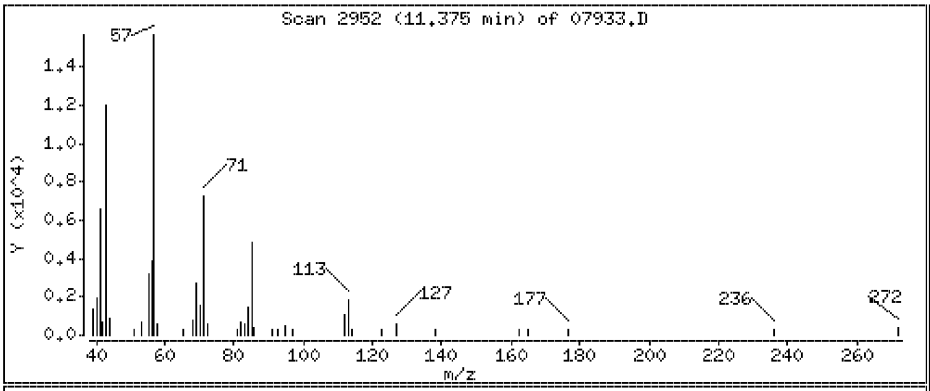
Operator: NCK

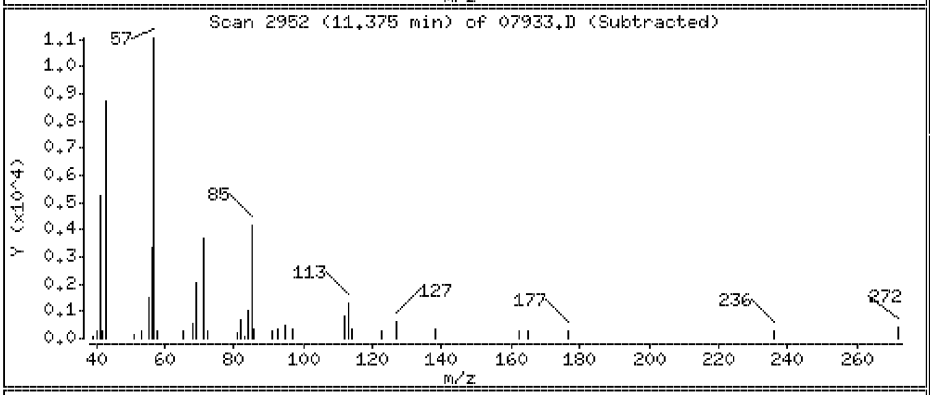
Column phase: J&W DB-5

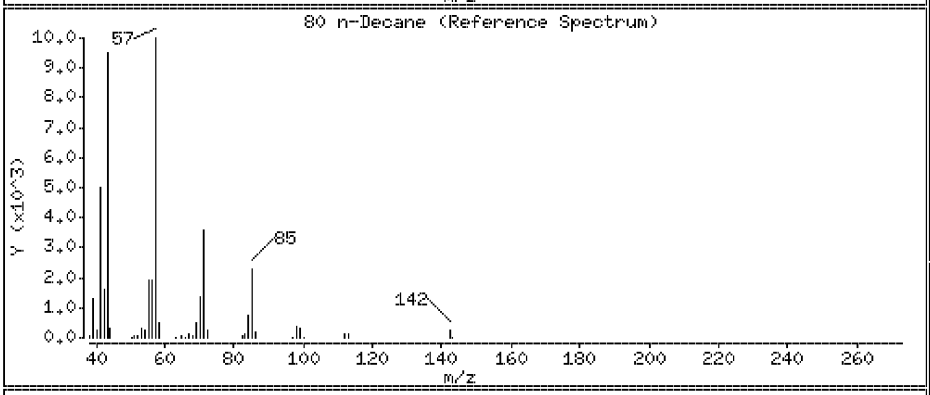
Column diameter: 0.32

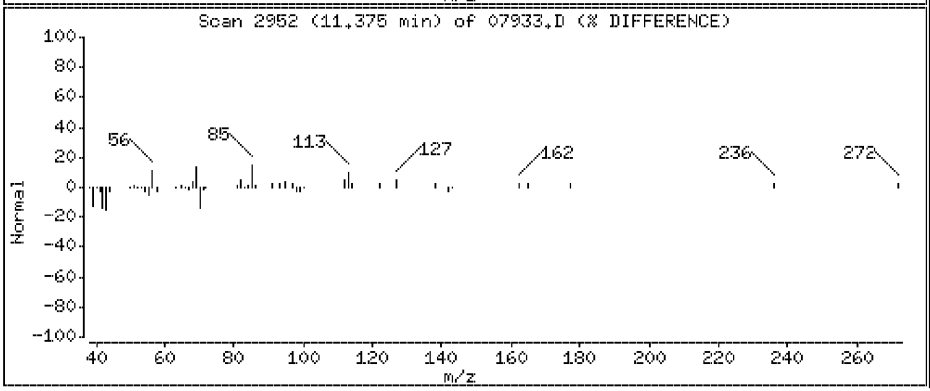
80 n-Decane

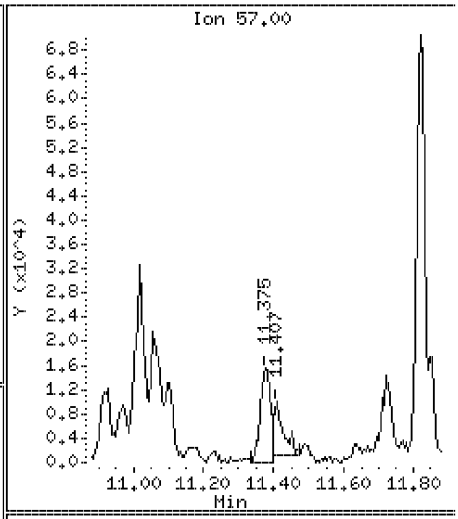
Concentration: 0.424 ppbv

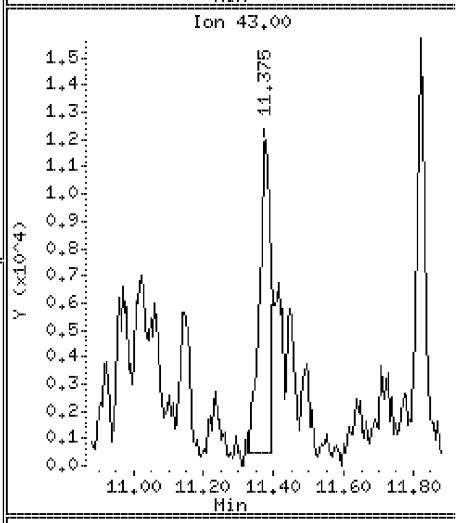


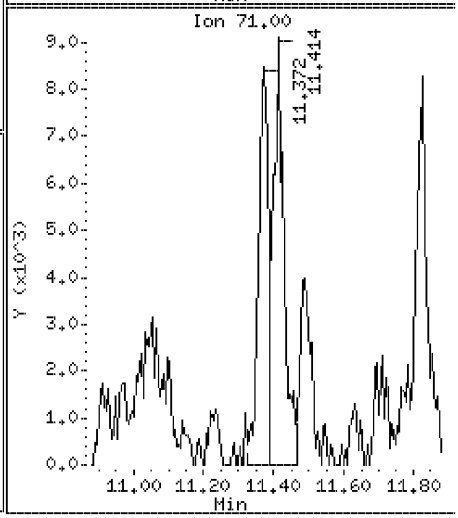












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

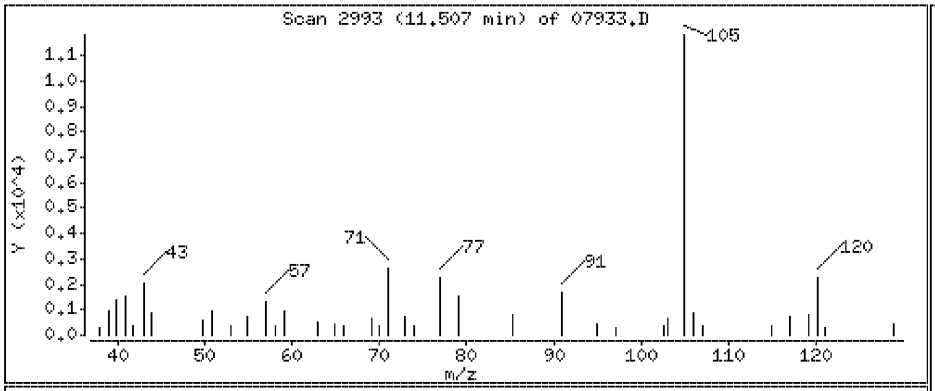
Operator: NCK

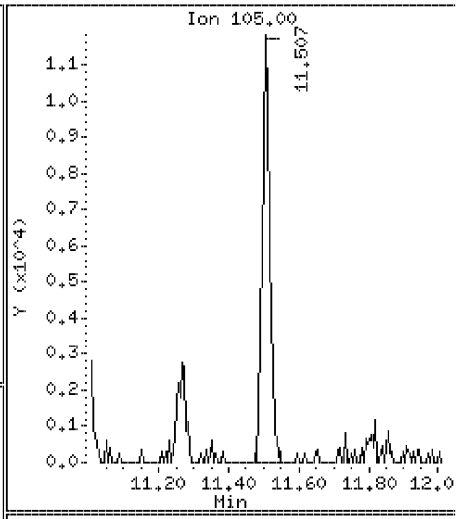
Column phase: J&W DB-5

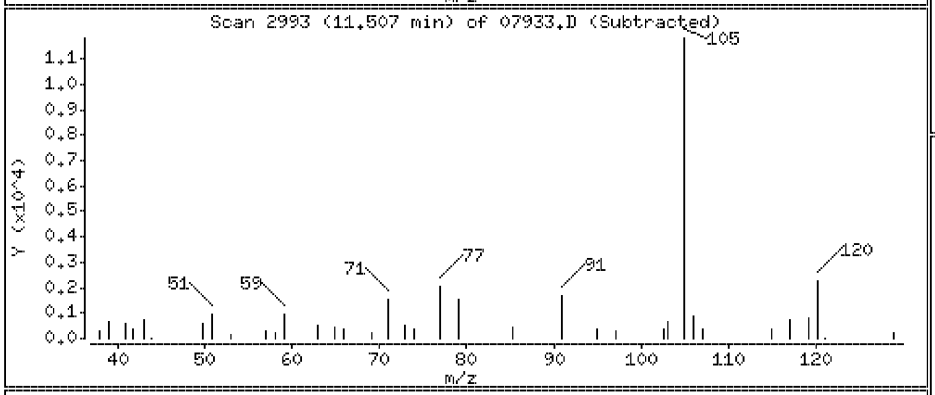
Column diameter: 0.32

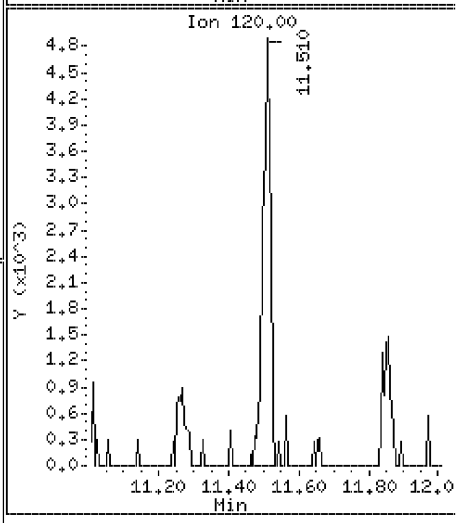
82 1,2,4-Trimethylbenzene

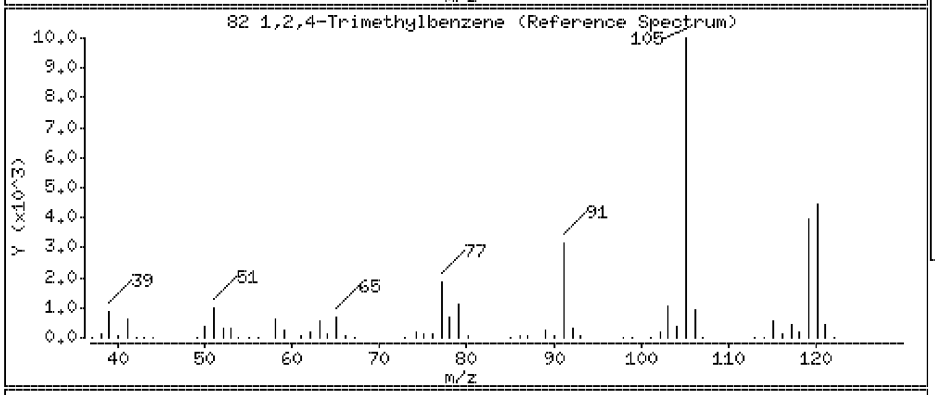
Concentration: 0.339 ppbv

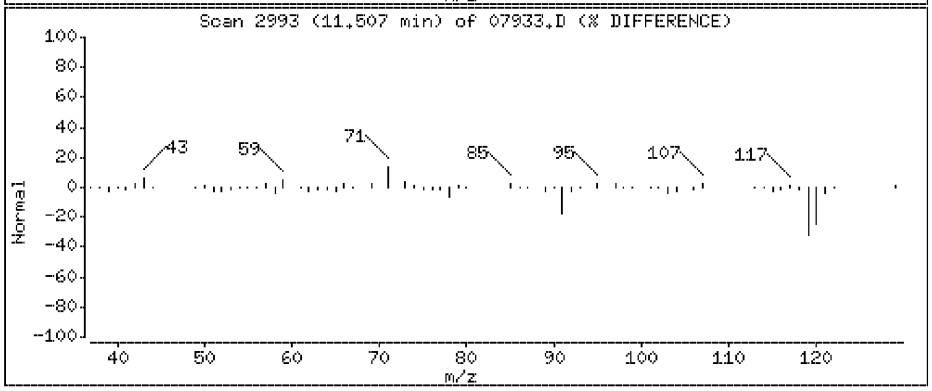












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

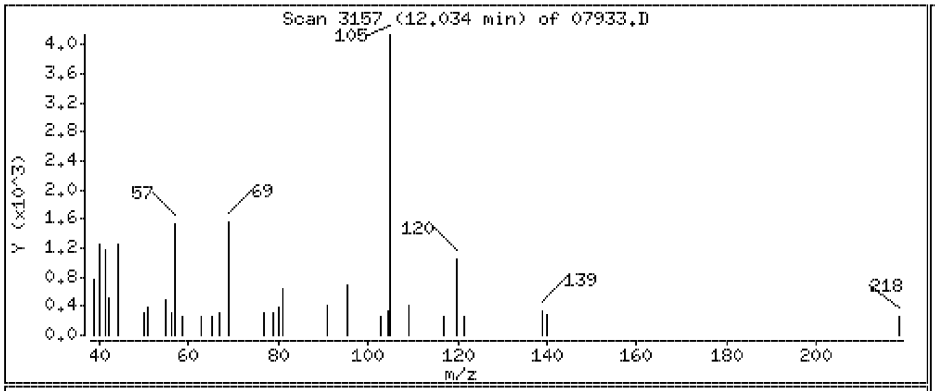
Operator: NCK

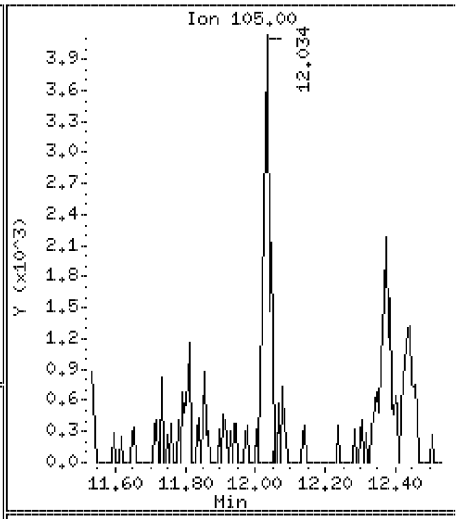
Column phase: J&W DB-5

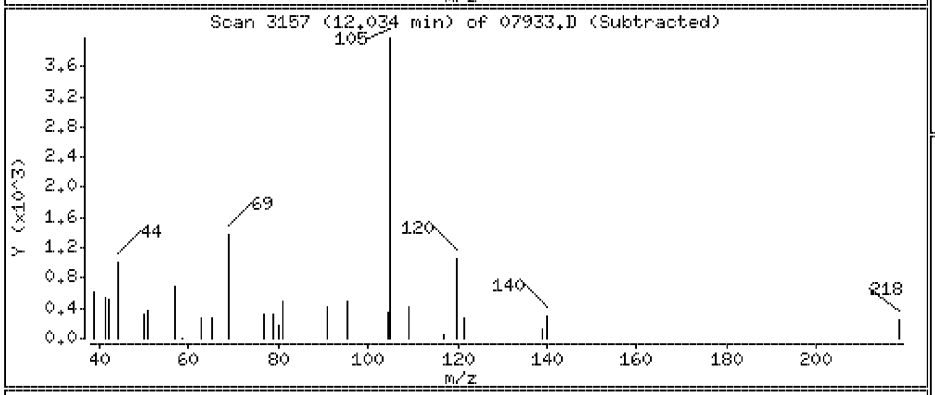
Column diameter: 0.32

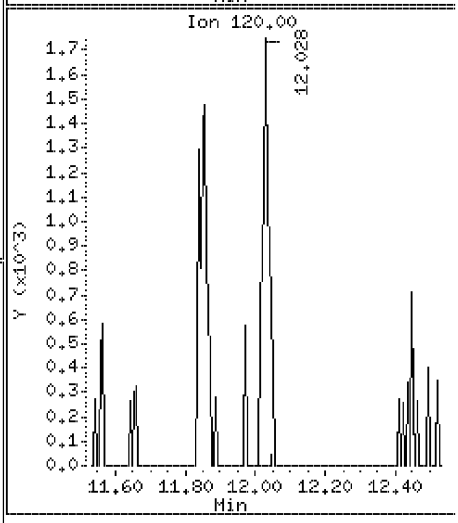
89 1,2,3-Trimethylbenzene

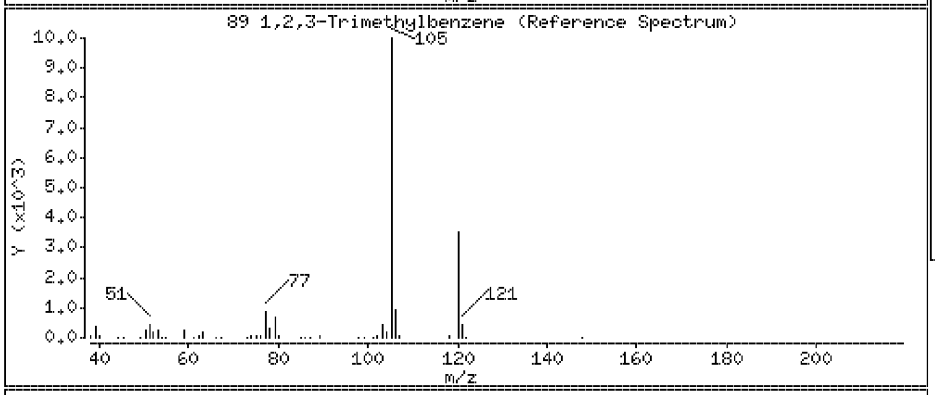
Concentration: 0.285 ppbv

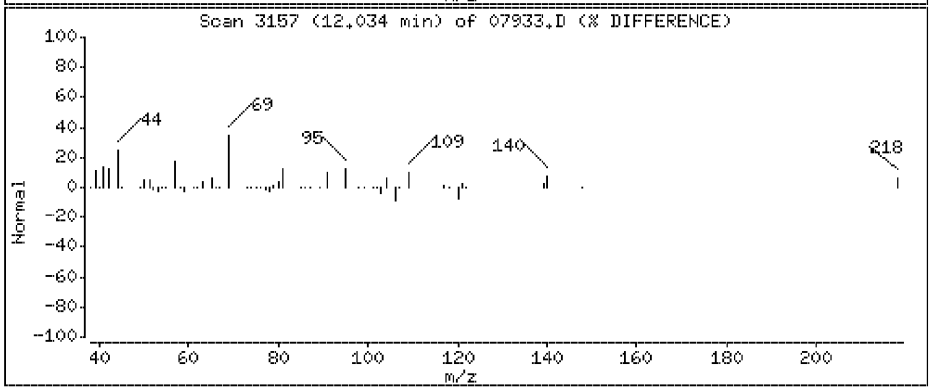












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07933.D

Date : 21-MAR-2017 02:17

Client ID:

Instrument: 10airB.i

Sample Info:

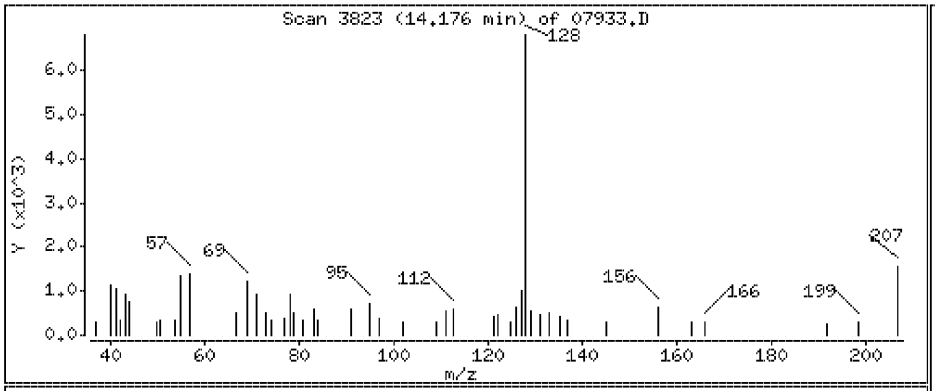
Operator: NCK

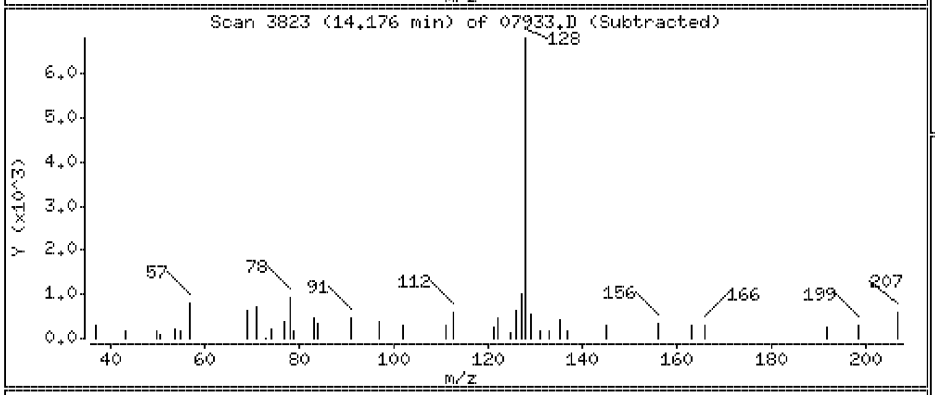
Column phase: J&W DB-5

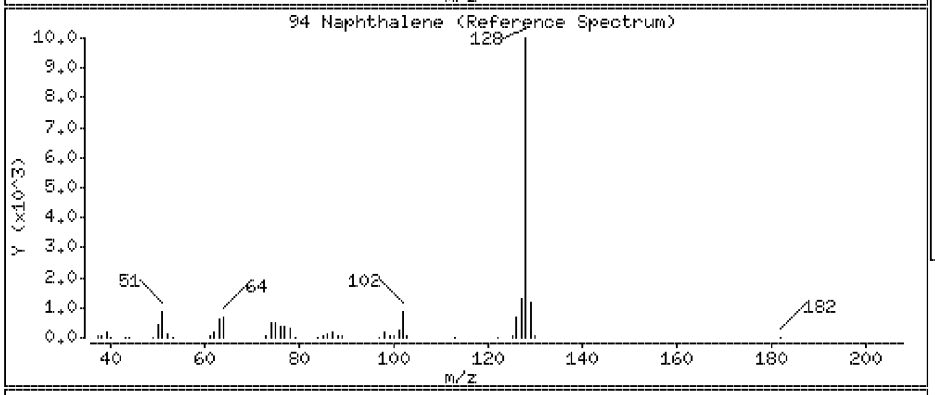
Column diameter: 0.32

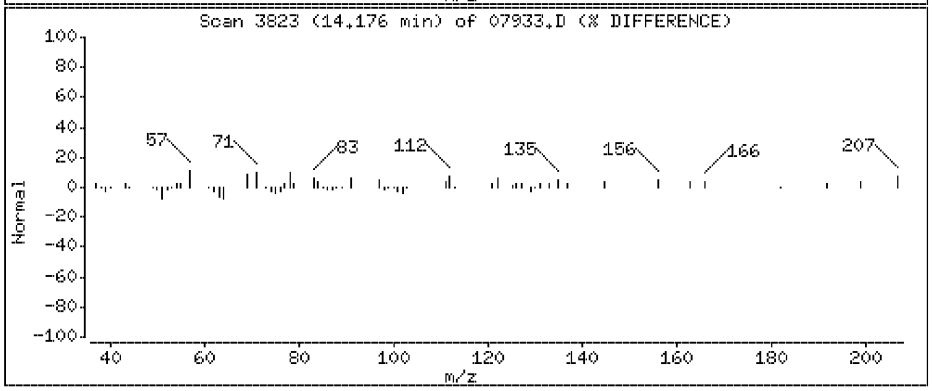
94 Naphthalene

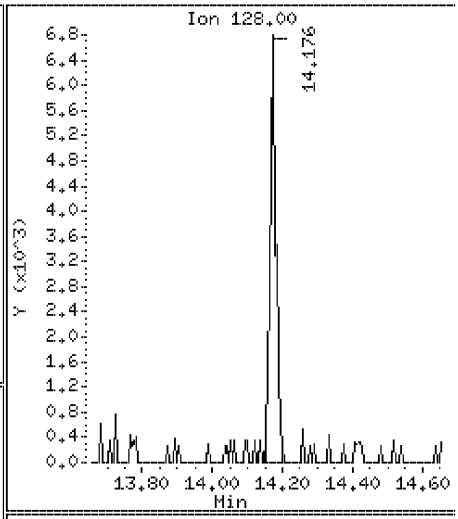
Concentration: 0.811 ppbv

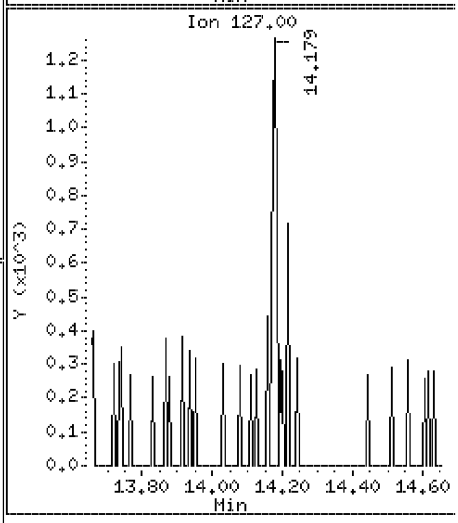






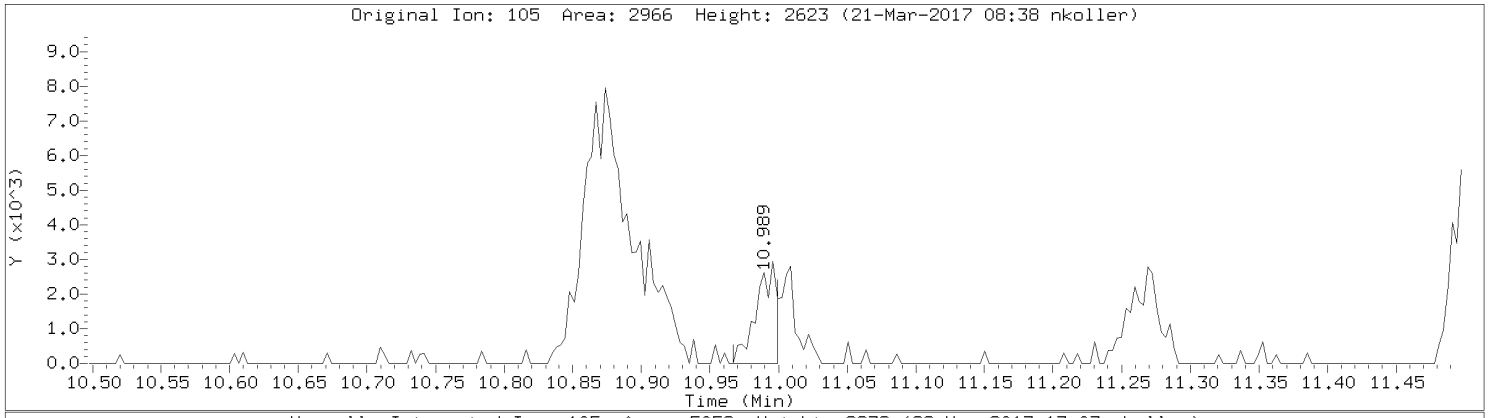


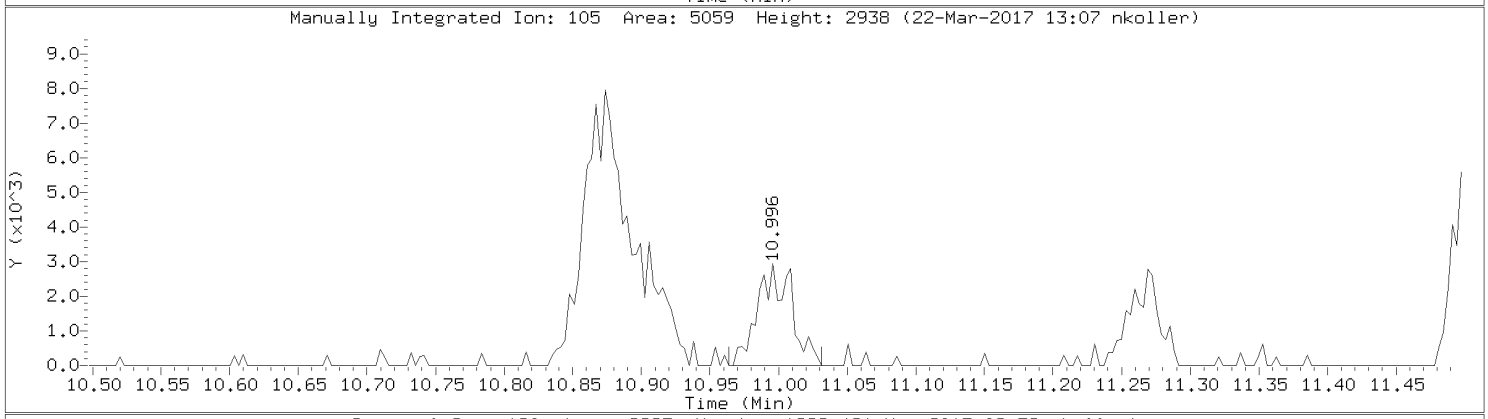


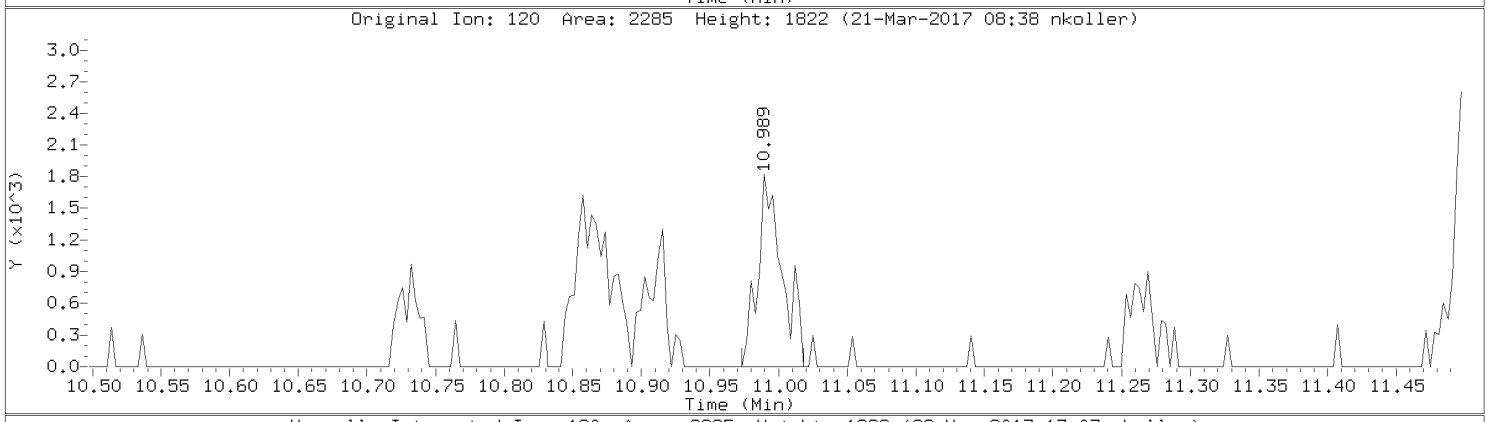


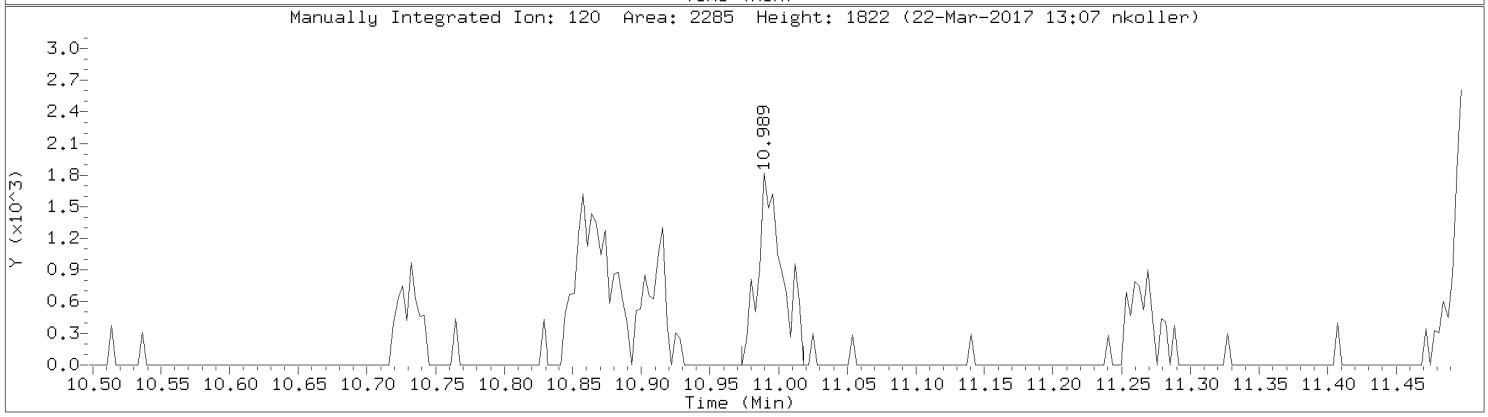
Data File: \\192.168.10.12\chem\10airB.i\032017.b/07933.D
Injection Date: 21-MAR-2017 02:17
Instrument: 10airB.i
Lab Sample ID: 10381035001

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



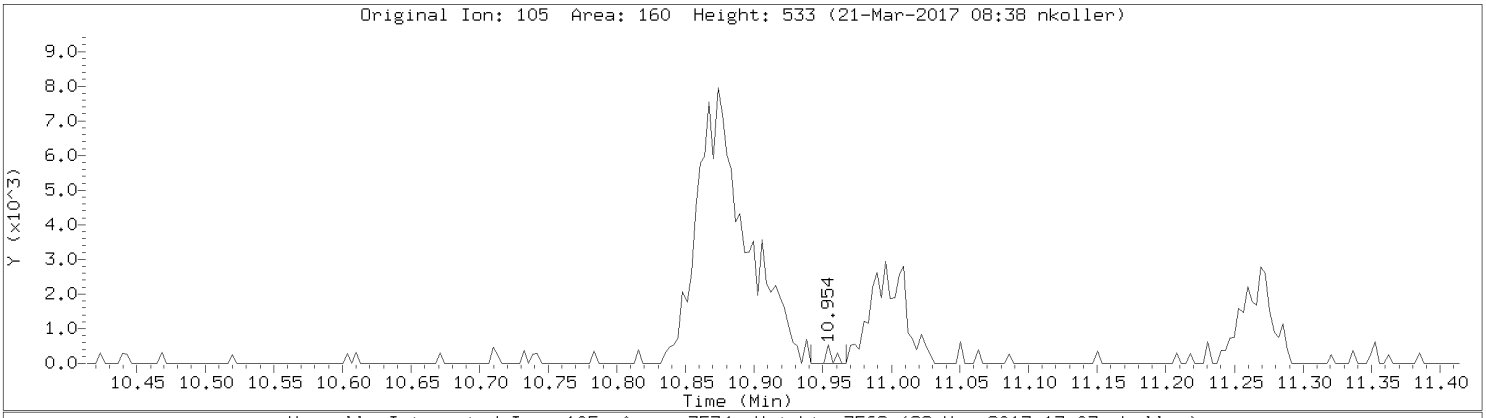


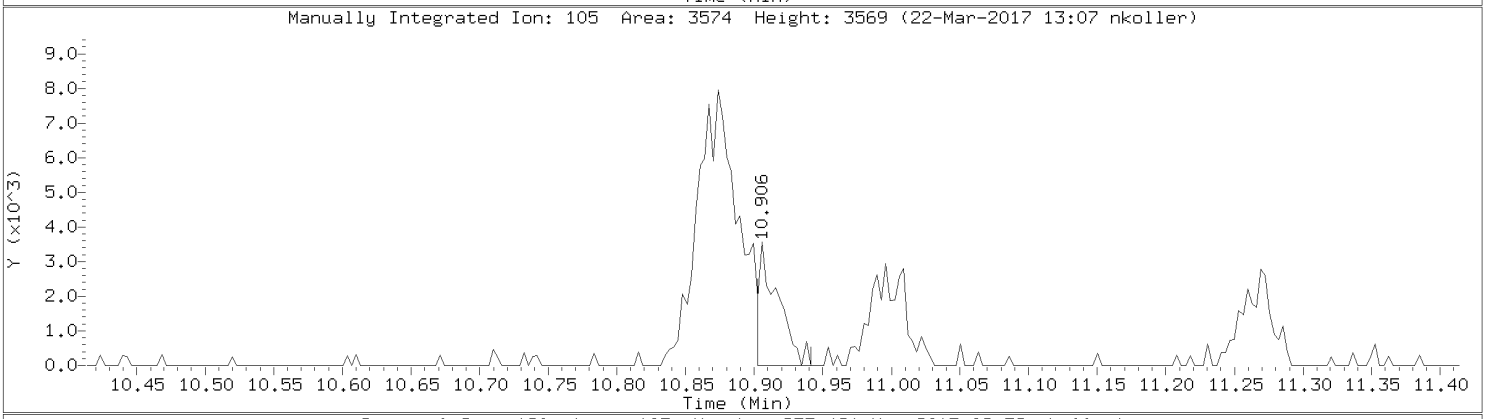


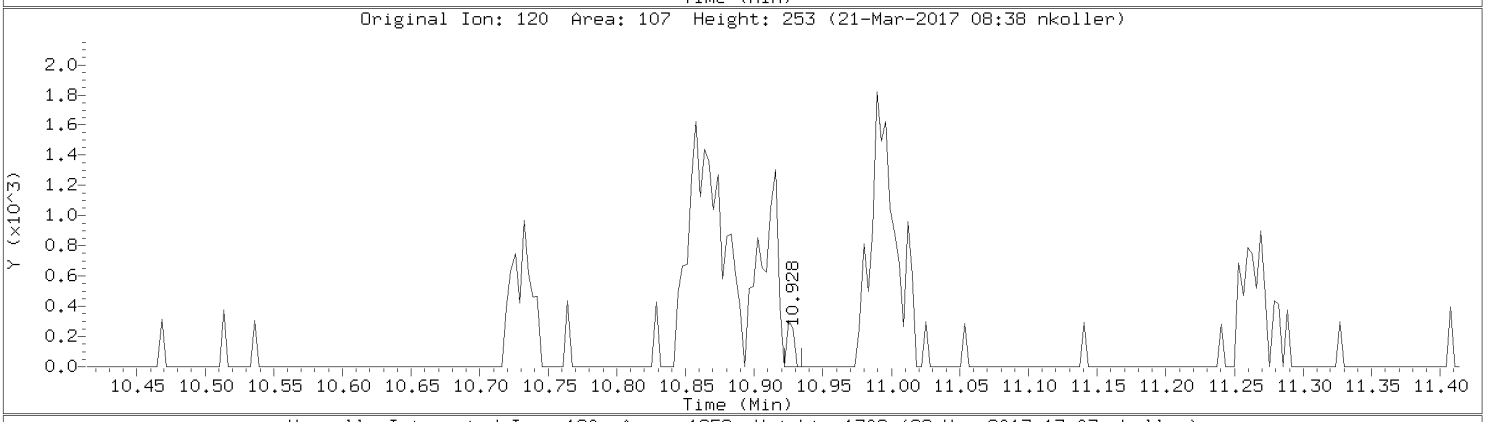


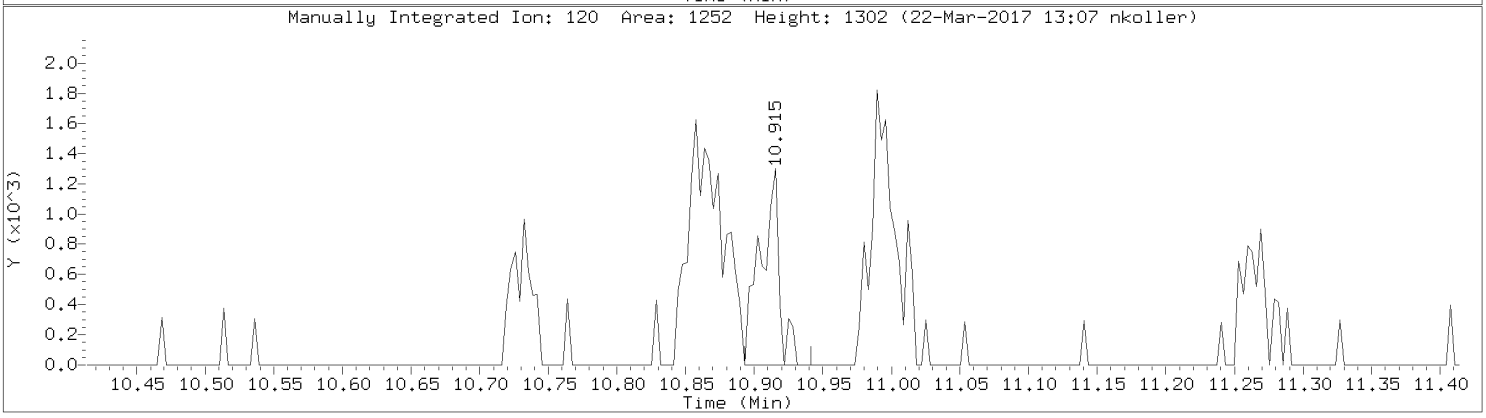
Data File: \\192.168.10.12\chem\10airB.i\032017.b/07933.D
Injection Date: 21-MAR-2017 02:17
Instrument: 10airB.i
Lab Sample ID: 10381035001

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

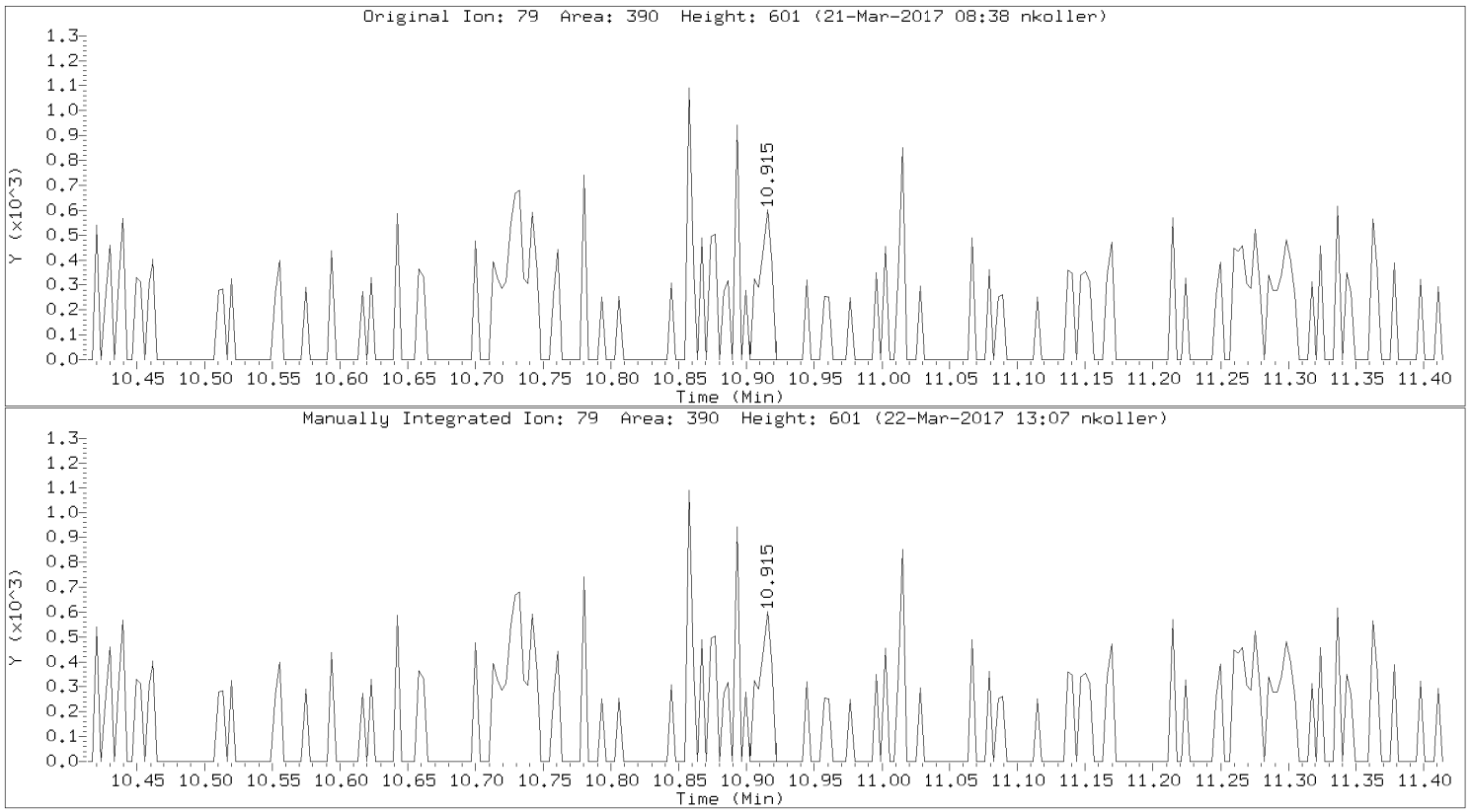






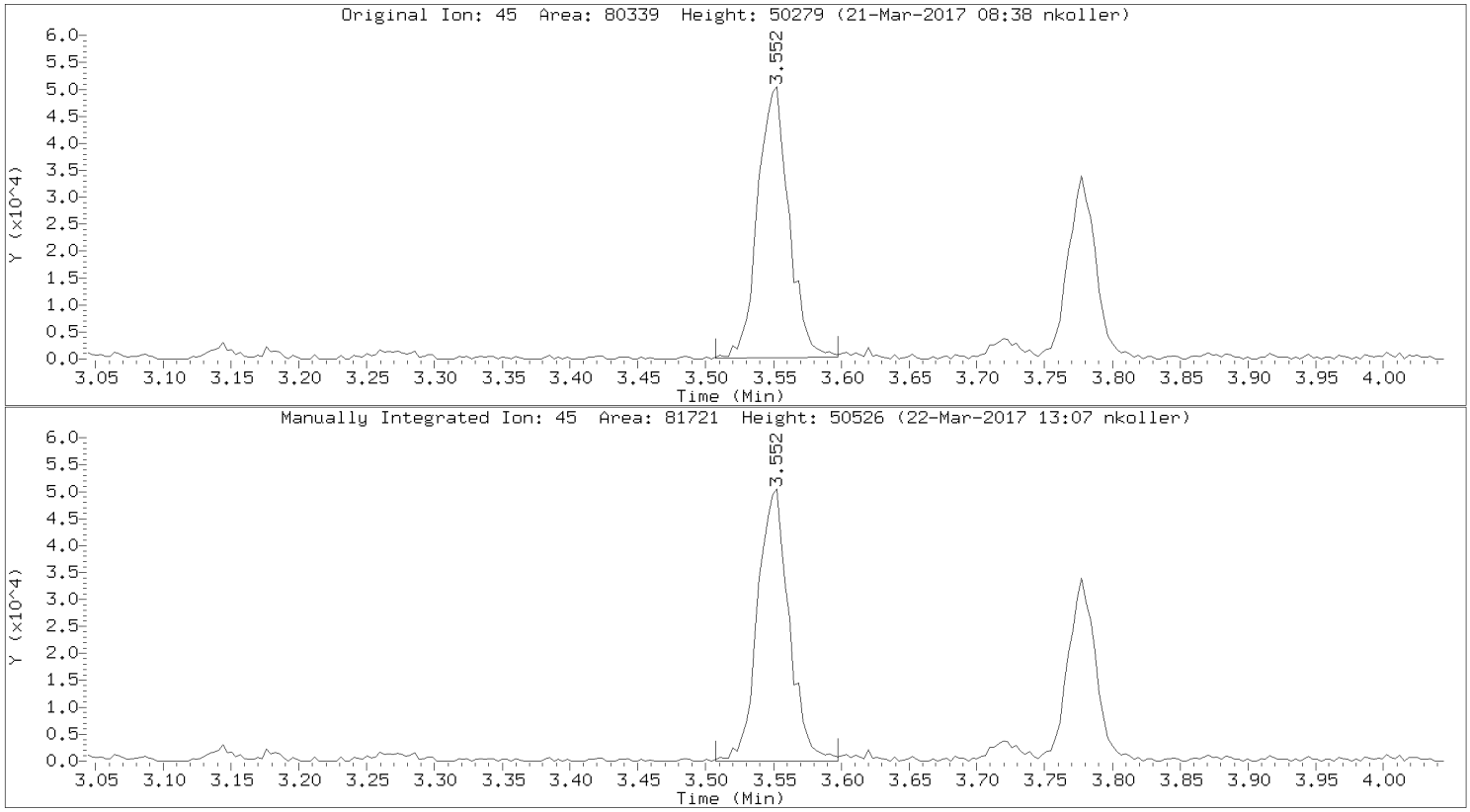


Data File: \\192.168.10.12\chem\10airB.i\032017.b/07933.D
Injection Date: 21-MAR-2017 02:17
Instrument: 10airB.i
Lab Sample ID: 10381035001



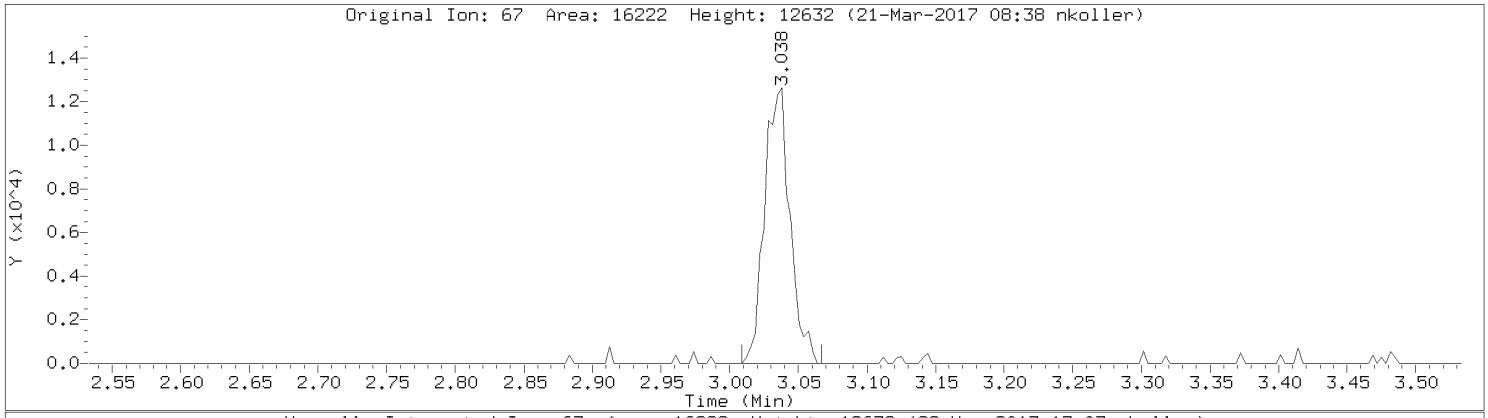
Data File: \\192.168.10.12\chem\10airB.i\032017.b/07933.D
Injection Date: 21-MAR-2017 02:17
Instrument: 10airB.i
Lab Sample ID: 10381035001

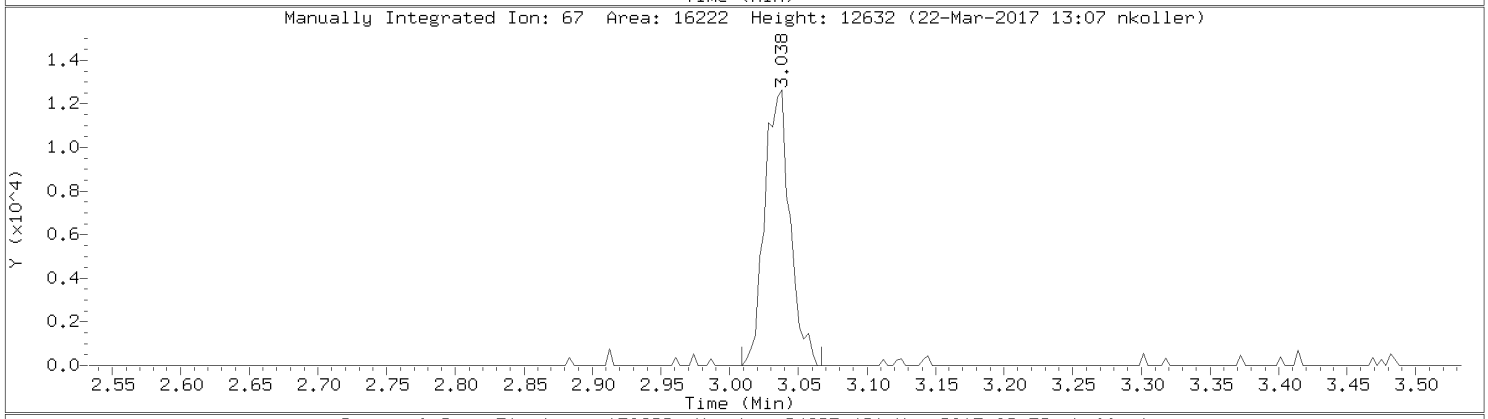
Compound: Ethanol
CAS Number: 64-17-5

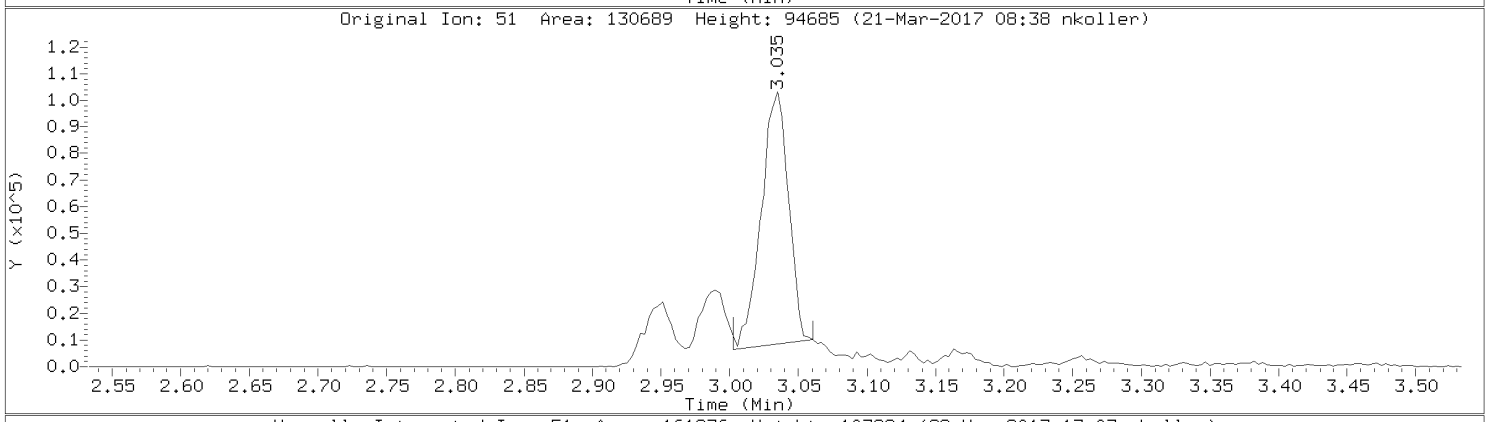


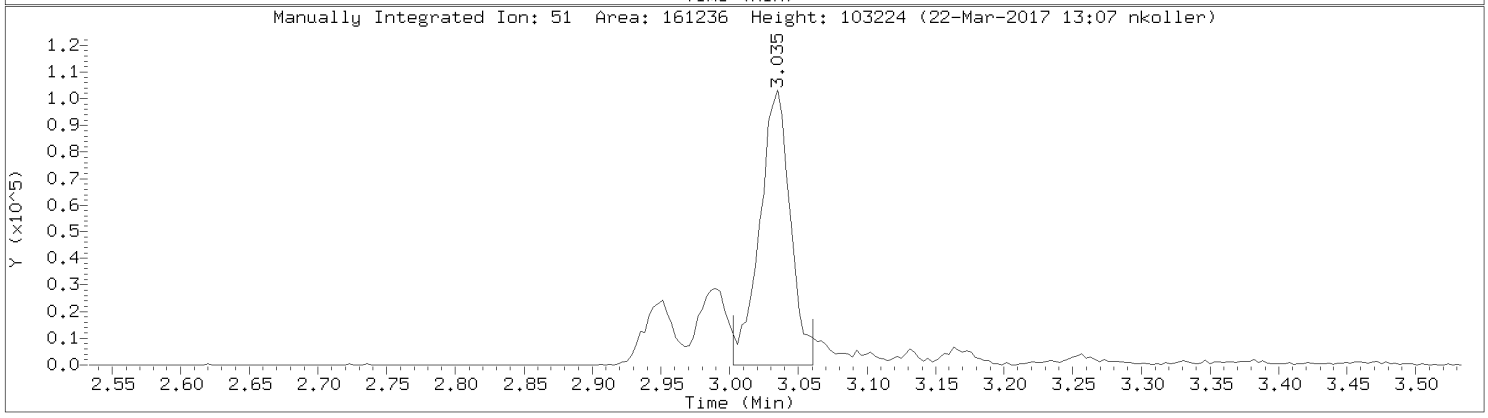
Data File: \\192.168.10.12\chem\10airB.i\032017.b/07933.D
Injection Date: 21-MAR-2017 02:17
Instrument: 10airB.i
Lab Sample ID: 10381035001

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

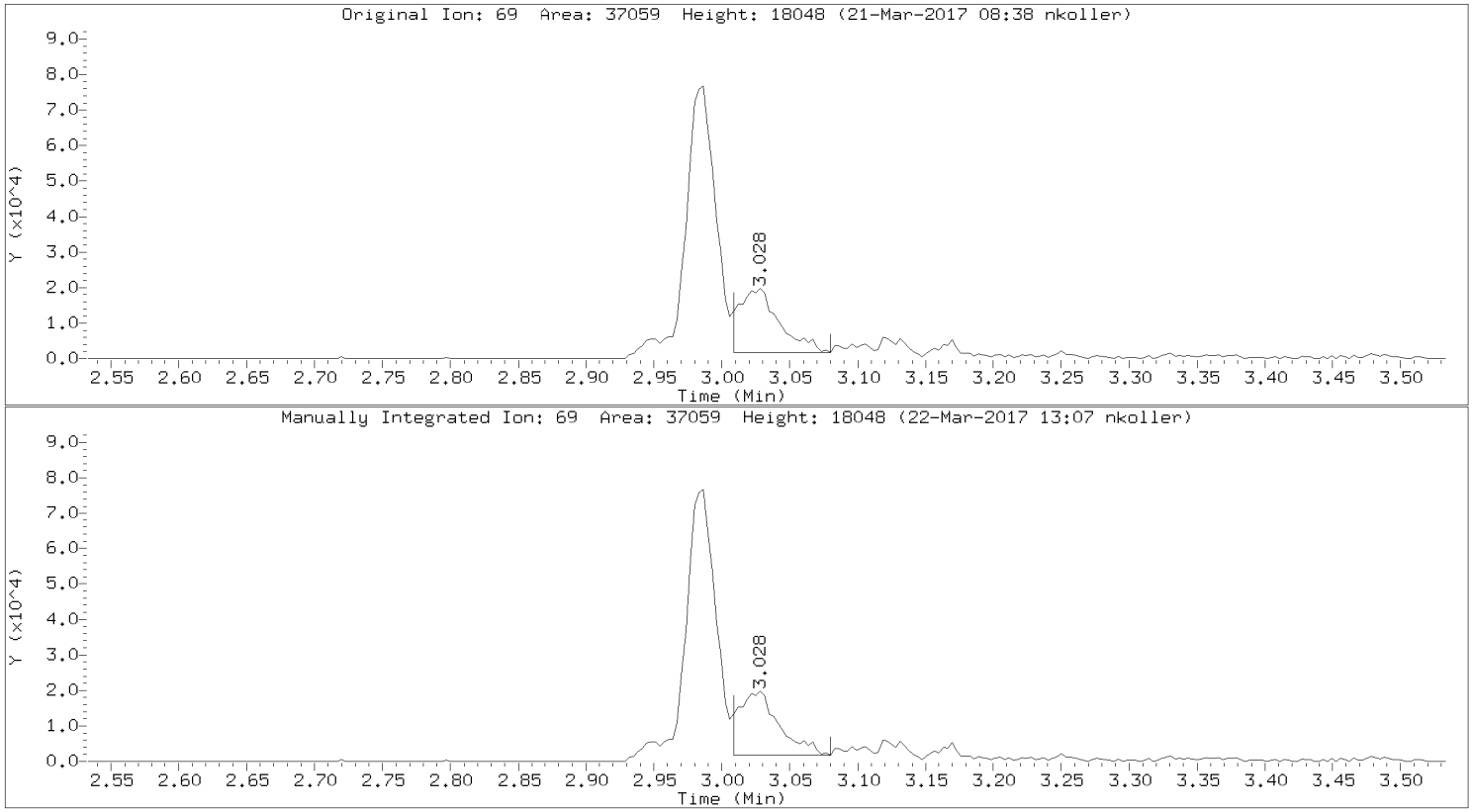








Data File: \\192.168.10.12\chem\10airB.i\032017.b/07933.D
Injection Date: 21-MAR-2017 02:17
Instrument: 10airB.i
Lab Sample ID: 10381035001



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_5_20170302 **Lab ID: 10381035001** Collected: 03/02/17 12:35 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.40**	ug/m3	4.2	0.40	1.68		03/21/17 02:17	67-63-0	
Styrene	**1.2J**	ug/m3	1.5	0.32	1.68		03/21/17 02:17	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 02:17	79-34-5	
Tetrachloroethene	**<0.47**	ug/m3	1.2	0.47	1.68		03/21/17 02:17	127-18-4	
Toluene	**4.4**	ug/m3	1.3	0.26	1.68		03/21/17 02:17	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 02:17	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/21/17 02:17	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 02:17	79-00-5	
Trichloroethene	**3.9**	ug/m3	0.92	0.46	1.68		03/21/17 02:17	79-01-6	
Trichlorofluoromethane	**2.1**	ug/m3	1.9	0.22	1.68		03/21/17 02:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.78J**	ug/m3	2.7	0.51	1.68		03/21/17 02:17	76-13-1	
1,2,4-Trimethylbenzene	**1.7**	ug/m3	1.7	0.21	1.68		03/21/17 02:17	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.31	1.68		03/21/17 02:17	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 02:17	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.0	1.3	1.68		03/21/17 02:17	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/21/17 02:17	95-47-6	

Sample: VP-1_10_2017032 **Lab ID: 10381035002** Collected: 03/02/17 12:35 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/21/17 03:21	75-71-8	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 03:21	74-87-3	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 03:21	76-14-2	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 03:21	75-01-4	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 03:21	74-83-9	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 03:21	75-00-3	
Trichlorofluoromethane	**1.2J**	ug/m3	1.9	0.22	1.68		03/21/17 03:21	75-69-4	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/21/17 03:21	75-35-4	
1,1,2-Trichlorotrifluoroethane	**<0.51**	ug/m3	2.7	0.51	1.68		03/21/17 03:21	76-13-1	
Methylene Chloride	**<0.91**	ug/m3	5.9	0.91	1.68		03/21/17 03:21	75-09-2	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 03:21	75-34-3	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 03:21	156-59-2	
Chloroform	**0.80J**	ug/m3	0.83	0.32	1.68		03/21/17 03:21	67-66-3	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/21/17 03:21	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 03:21	79-00-5	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 03:21	107-06-2	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/21/17 03:21	71-43-2	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 03:21	56-23-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 03:21	78-87-5	
Trichloroethene	**4.0**	ug/m3	0.92	0.46	1.68		03/21/17 03:21	79-01-6	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 03:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 03:21	10061-02-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_10_2017032 **Lab ID: 10381035002** Collected: 03/02/17 12:35 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Toluene	**0.88J**	ug/m3	1.3	0.26	1.68		03/21/17 03:21	108-88-3	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 03:21	106-93-4	
Tetrachloroethene	**<0.47**	ug/m3	1.2	0.47	1.68		03/21/17 03:21	127-18-4	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 03:21	108-90-7	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 03:21	100-41-4	
m&p-Xylene	**1.6J**	ug/m3	3.0	1.3	1.68		03/21/17 03:21	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/21/17 03:21	95-47-6	
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/21/17 03:21	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 03:21	79-34-5	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/21/17 03:21	108-67-8	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.21	1.68		03/21/17 03:21	95-63-6	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 03:21	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/21/17 03:21	106-46-7	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 03:21	95-50-1	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 03:21	120-82-1	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 03:21	87-68-3	
Acetone	**6.8**	ug/m3	4.1	1.4	1.68		03/21/17 03:21	67-64-1	
2-Butanone (MEK)	**<0.38**	ug/m3	5.0	0.38	1.68		03/21/17 03:21	78-93-3	
n-Hexane	**<0.60**	ug/m3	1.2	0.60	1.68		03/21/17 03:21	110-54-3	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 03:21	1634-04-4	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 03:21	124-48-1	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 03:21	106-99-0	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/21/17 03:21	75-15-0	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/21/17 03:21	110-82-7	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 03:21	108-10-1	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 03:21	591-78-6	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 03:21	75-25-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/21/17 03:21	156-60-5	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 03:21	75-27-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.7	0.32	1.68		03/21/17 03:21	622-96-8	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 03:21	98-82-8	
2-Propanol	**<0.40**	ug/m3	4.2	0.40	1.68		03/21/17 03:21	67-63-0	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 03:21	123-91-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 03:21	107-05-1	
Chlorodifluoromethane	**1.2**	ug/m3	1.2	0.46	1.68		03/21/17 03:21	75-45-6	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 03:21	108-87-2	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 03:21	96-12-8	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 03:21	306-83-2	CL
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 03:21	76-15-3	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 03:21	79-20-9	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D
Report Date: 22-Mar-2017 13:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032017.b\07935.D
Lab Smp Id: 10381035002
Inj Date : 21-MAR-2017 03:21
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27953
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:37 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 35
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.028	3.034	(0.541)	4023	0.20415	0.343	(QM)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.545	3.545	(0.633)	34350	1.36800	2.30	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.655	3.677	(0.653)	16809	0.12385	0.208	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.722	3.722	(0.665)	181509	1.67429	2.81	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D
Report Date: 22-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.388	(0.792)	19910	0.12221	0.205	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.801)	2207559	9.60290	9.60	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.719	4.716	(0.843)	62154	0.38414	0.645(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.859)	11657	0.09535	0.160	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	6707131	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.986	(1.067)	39210	0.43411	0.729	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.262)	5938537	9.61500	9.61	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.140	7.153	(1.275)	30532	0.13609	0.229	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.564	7.581	(0.876)	21357	0.13168	0.221(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	4412958	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.076	9.082	(1.051)	10785	0.21387	0.359	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D
Report Date: 22-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.899	10.915	(1.262)	3894	0.17207	0.289(QM)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.378	11.381	(2.032)	47513	0.35359	0.594(QM)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.500	11.510	(1.331)	4524	0.15007	0.252	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	2025816	9.51286	9.51	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.156	(1.641)	3721	0.45290	0.761	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D
Report Date: 22-Mar-2017 13:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07935.D
Lab Smp Id: 10381035002
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m
Misc Info: 27953

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

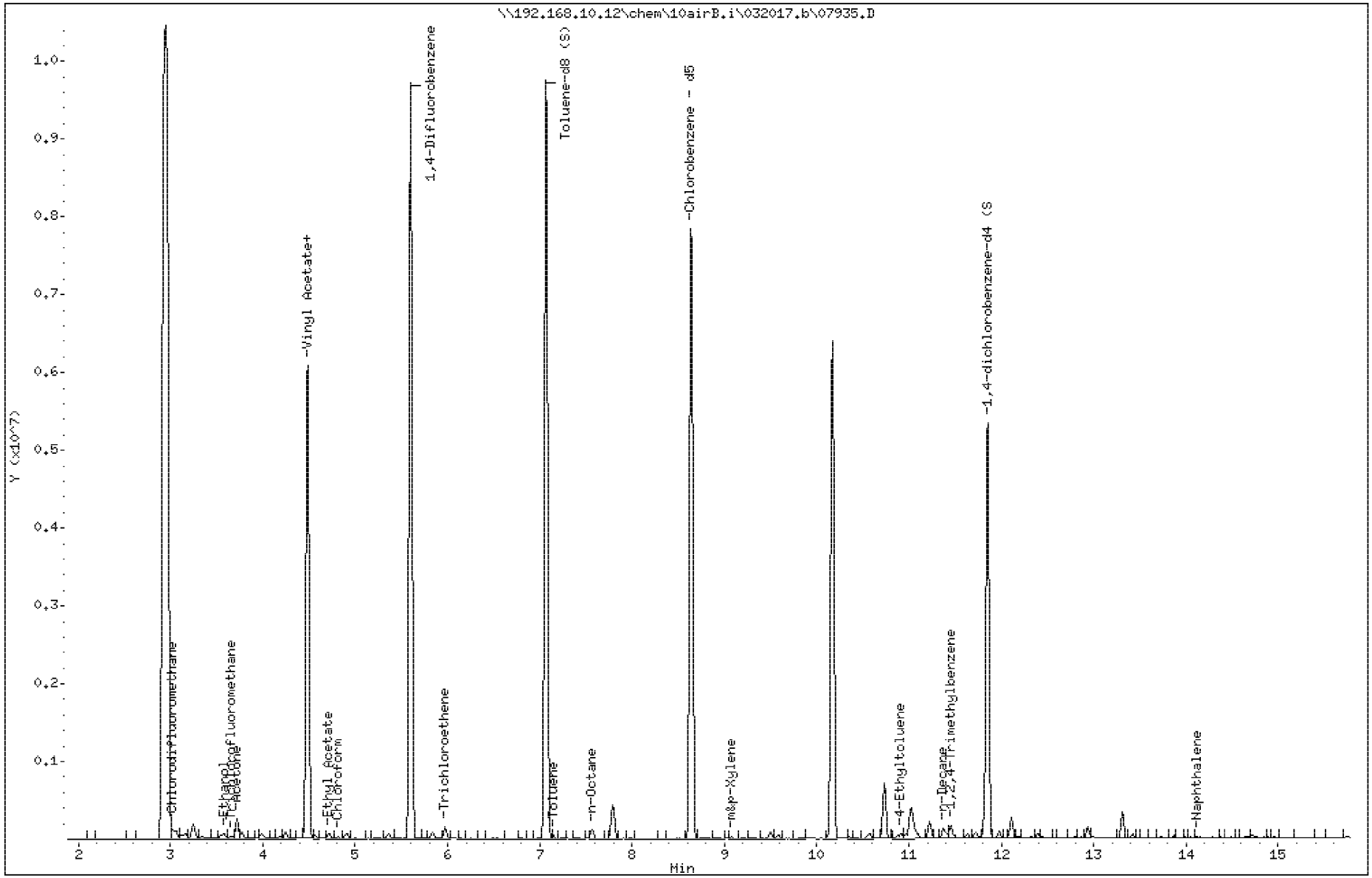
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6707131	-12.22
67 Chlorobenzene - d	5205948	3123569	7288327	4412958	-15.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D
Date : 21-MAR-2017 03:21
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

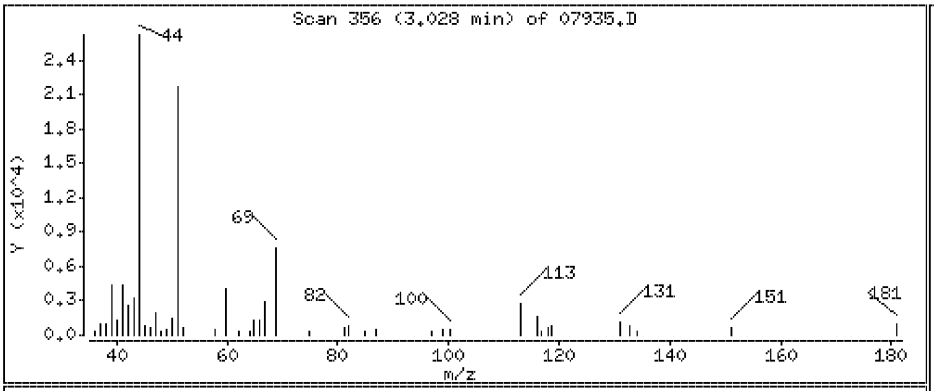
Operator: NCK

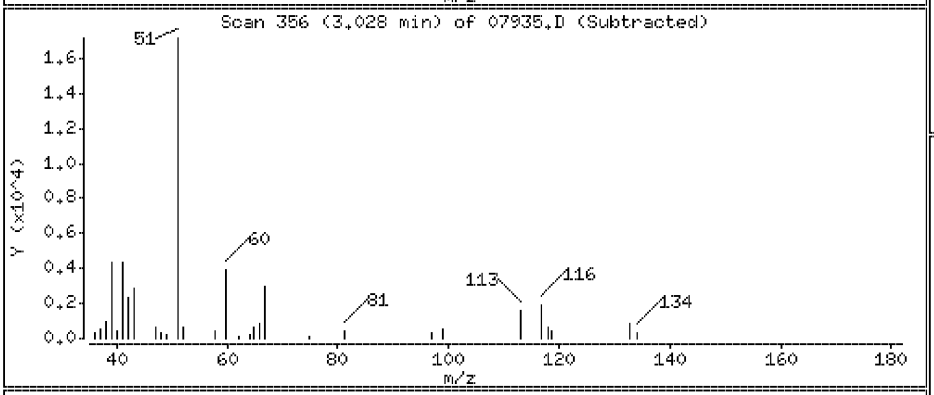
Column phase: J&W DB-5

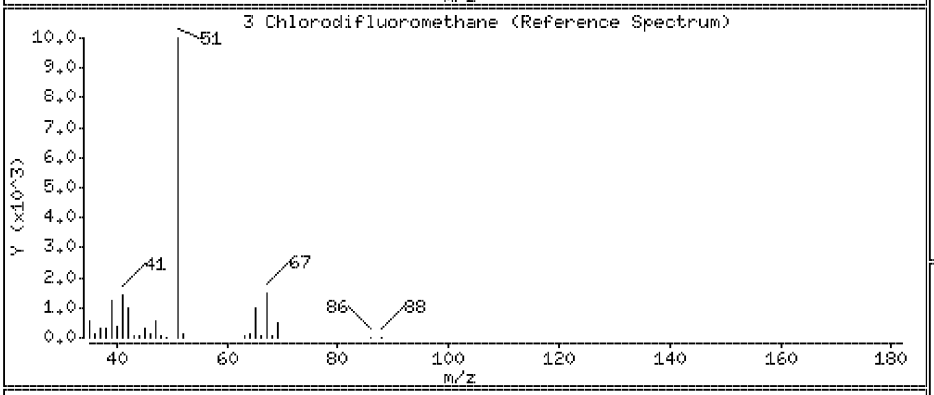
Column diameter: 0.32

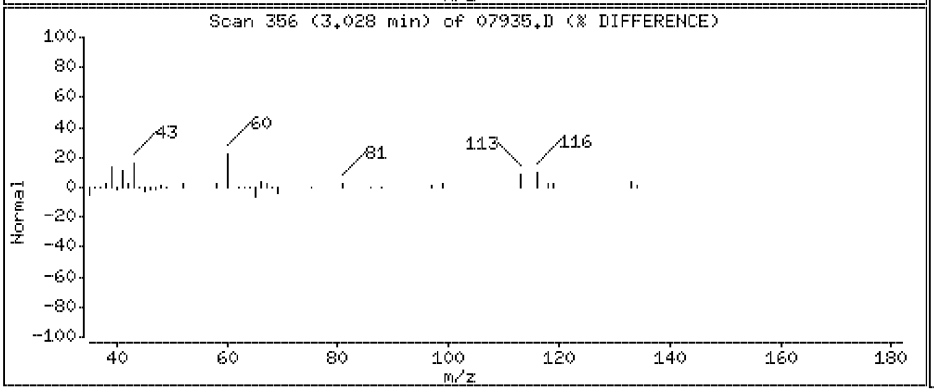
3 Chlorodifluoromethane

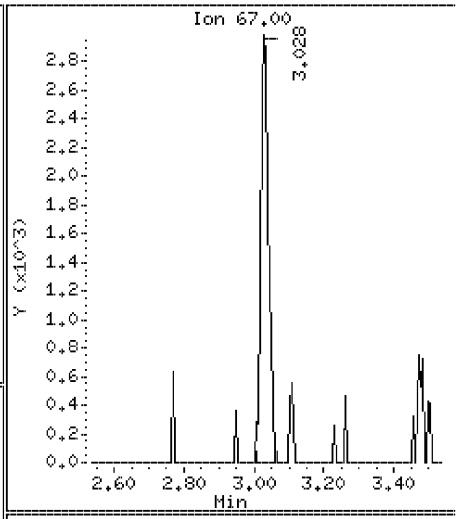
Concentration: 0.343 ppbv

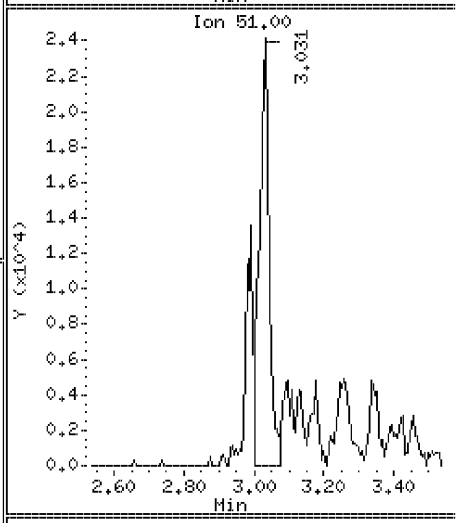


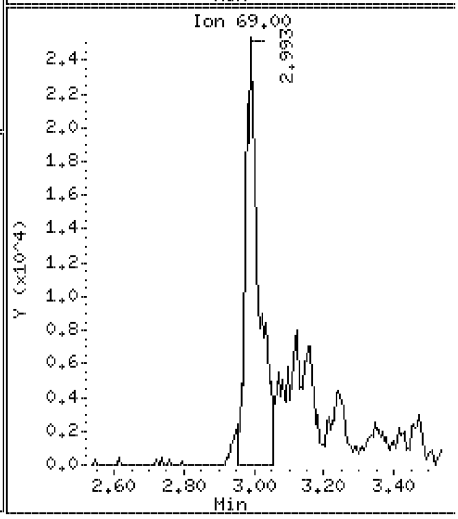












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

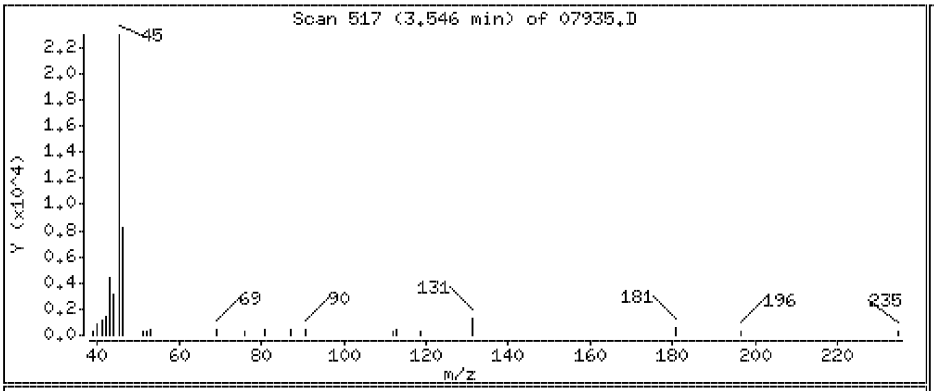
Operator: NCK

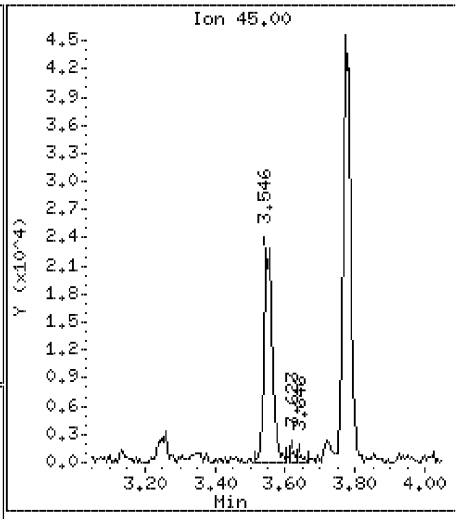
Column phase: J&W DB-5

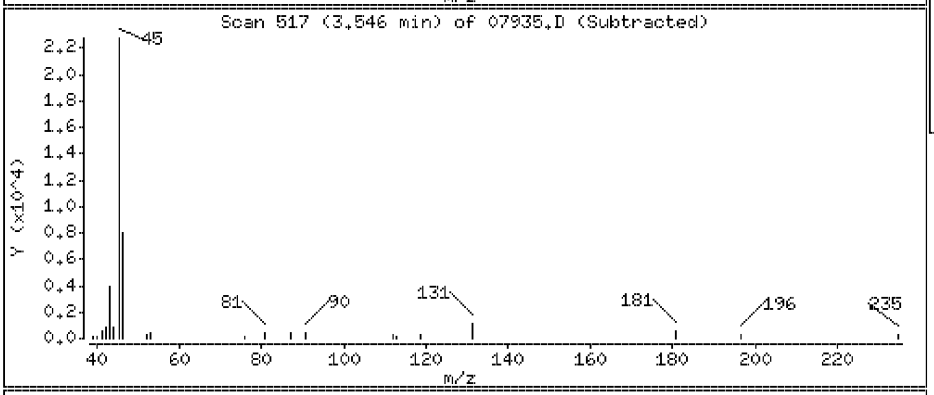
Column diameter: 0.32

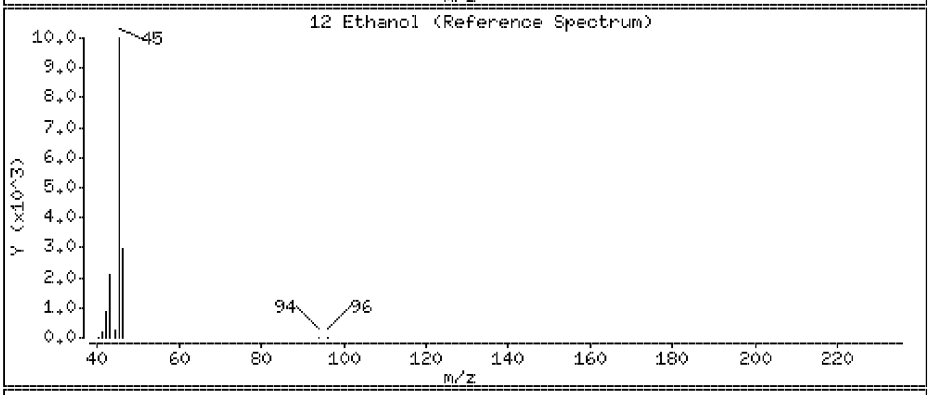
12 Ethanol

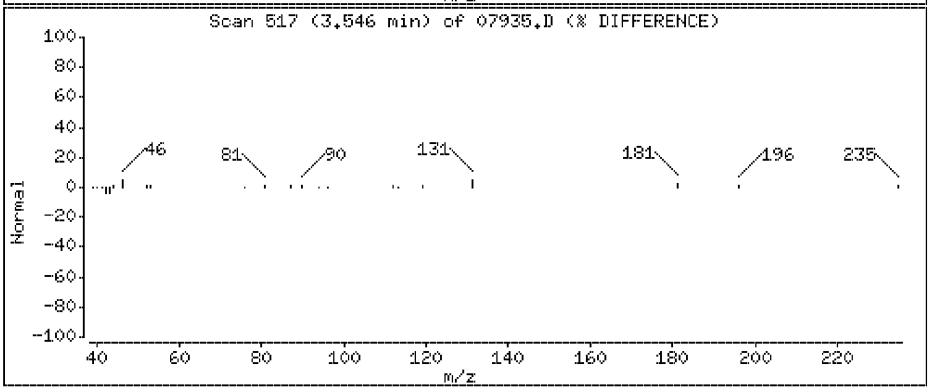
Concentration: 2.30 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

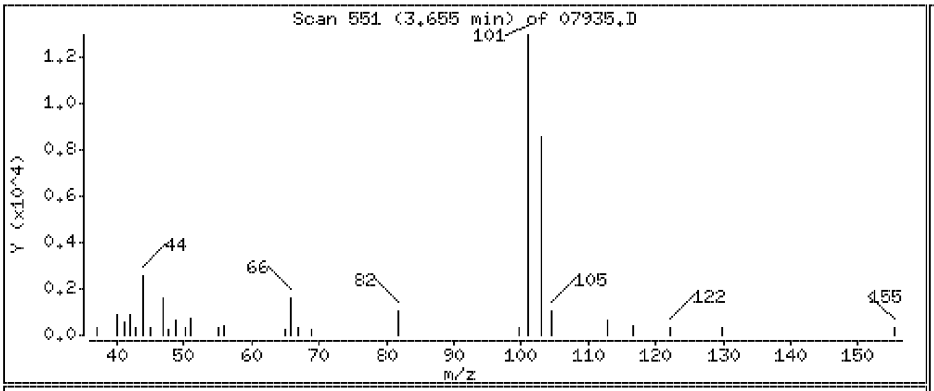
Operator: NCK

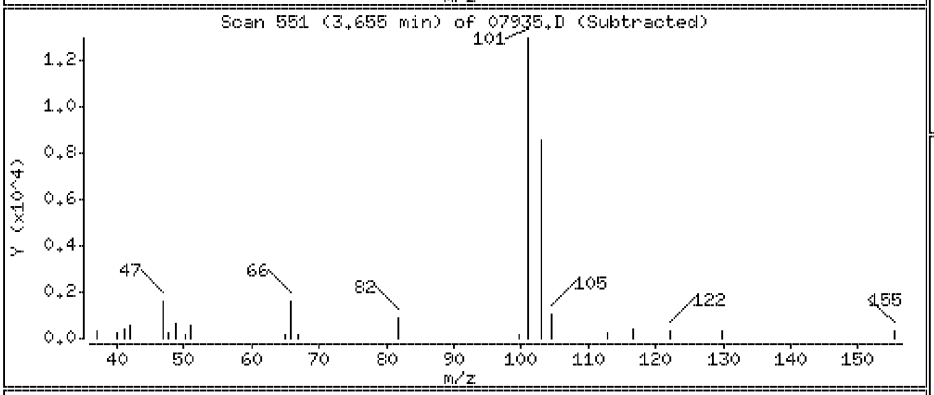
Column phase: J&W DB-5

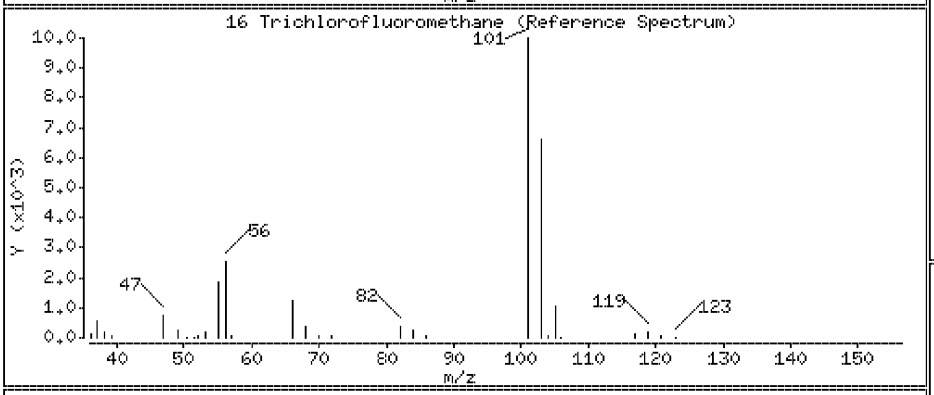
Column diameter: 0.32

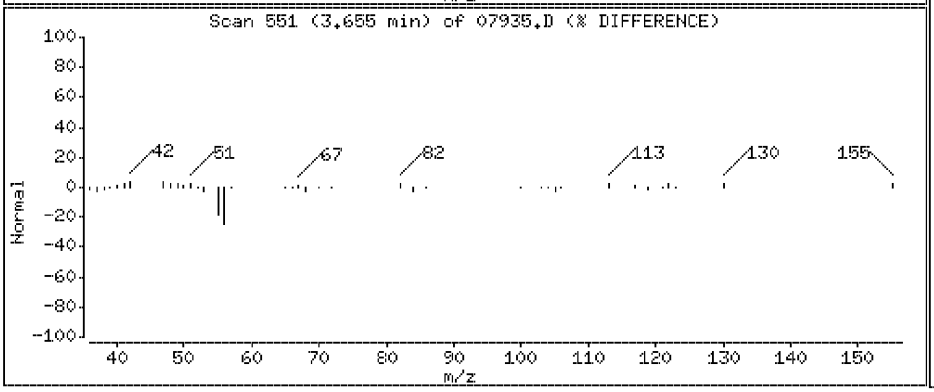
16 Trichlorofluoromethane

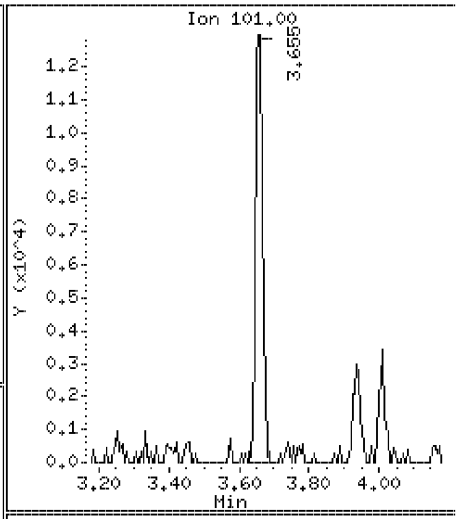
Concentration: 0.208 ppbv

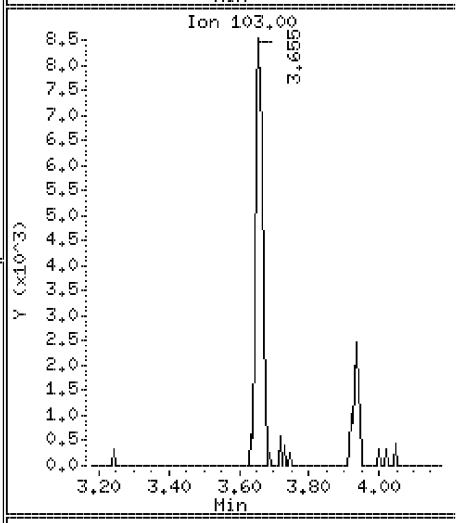


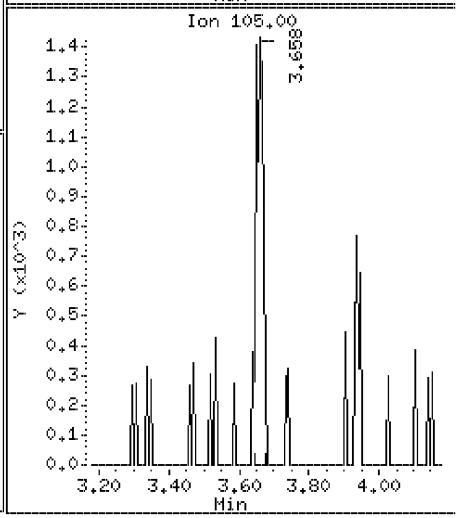












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

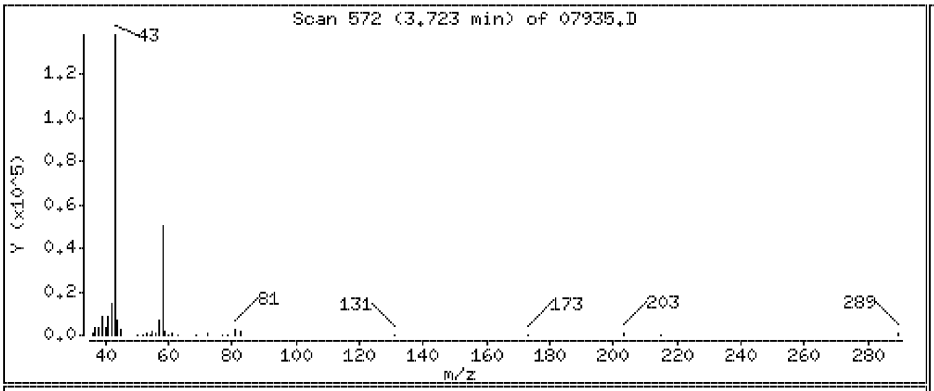
Operator: NCK

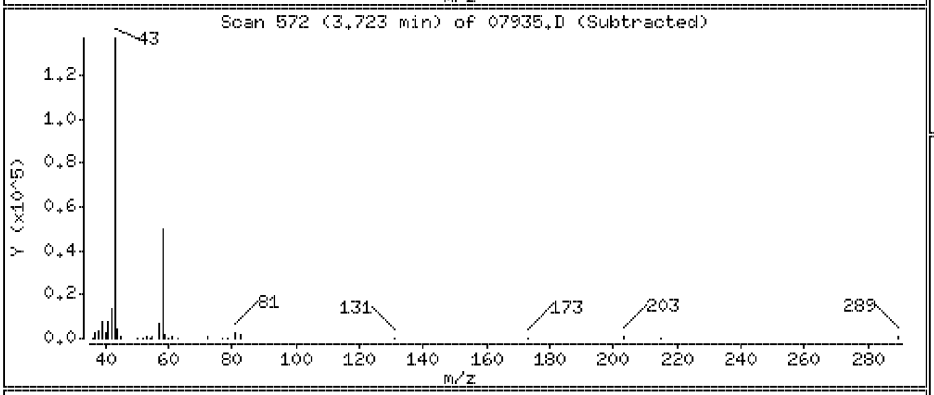
Column phase: J&W DB-5

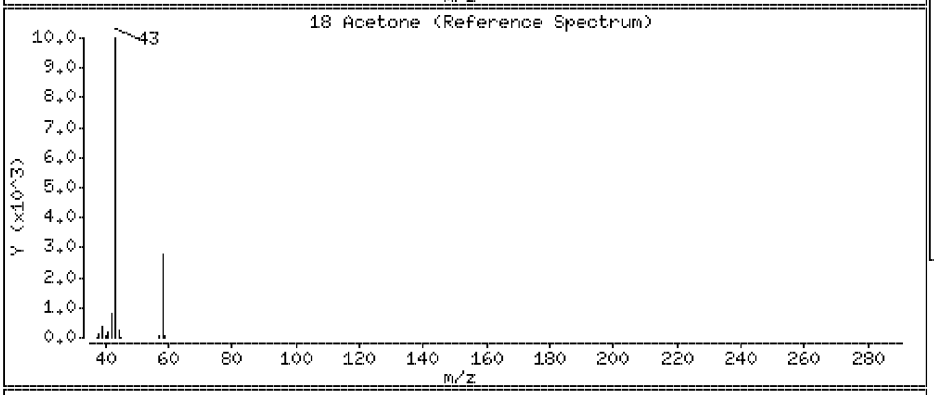
Column diameter: 0.32

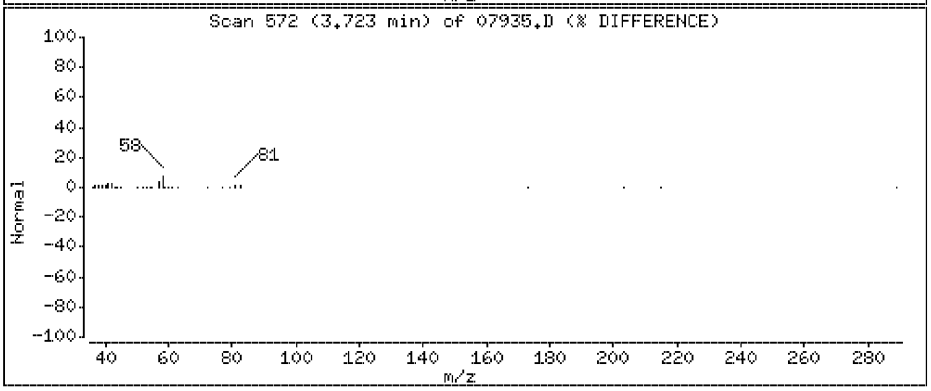
18 Acetone

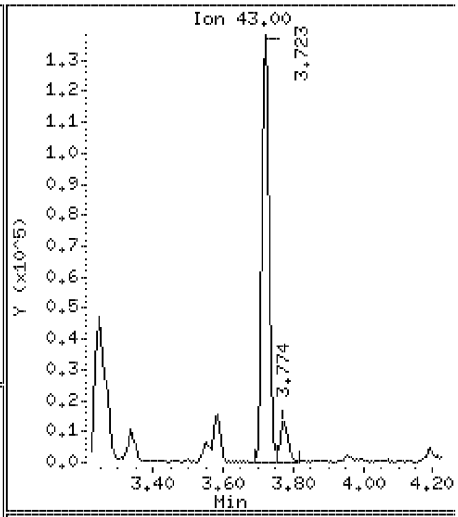
Concentration: 2.81 ppbv

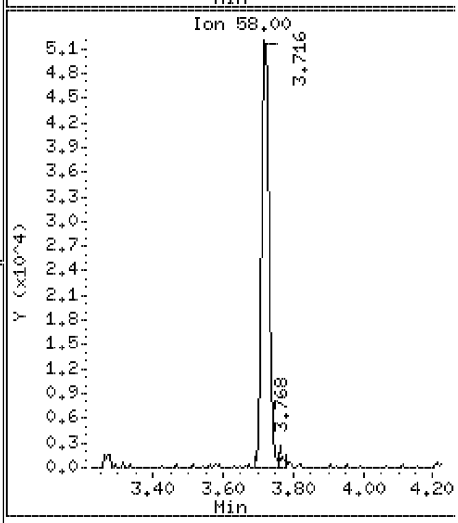












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

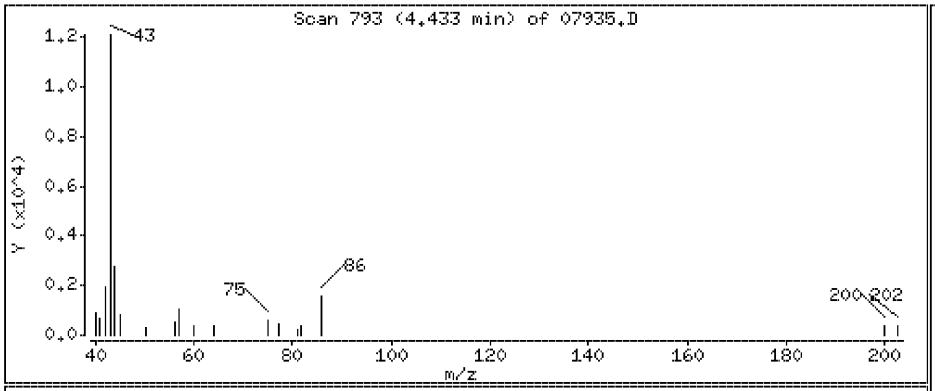
Operator: NCK

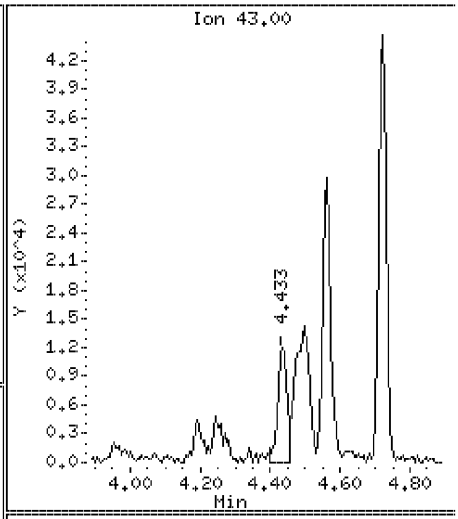
Column phase: J&W DB-5

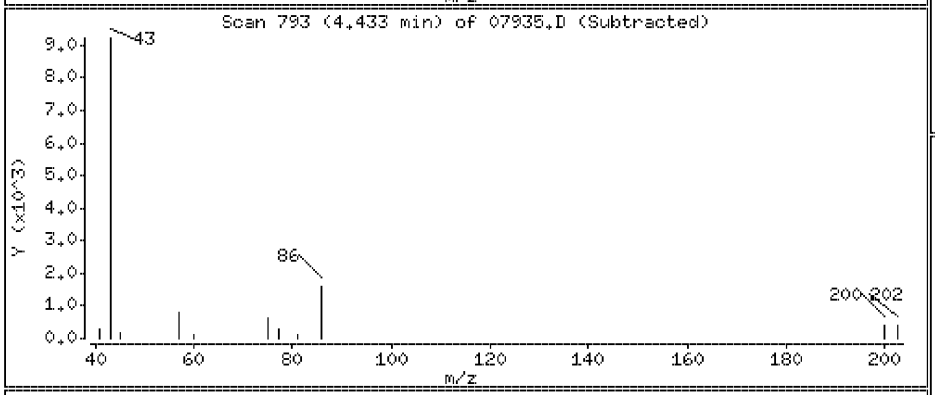
Column diameter: 0.32

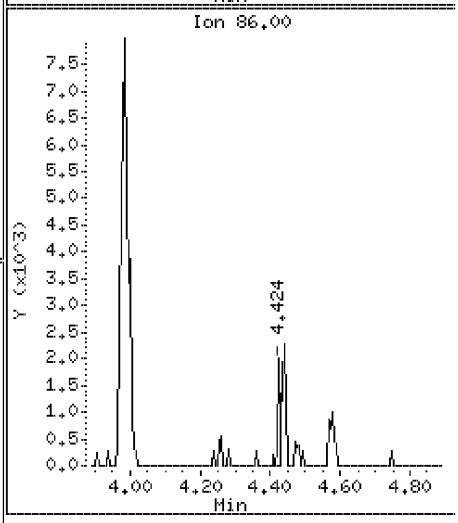
30 Vinyl Acetate

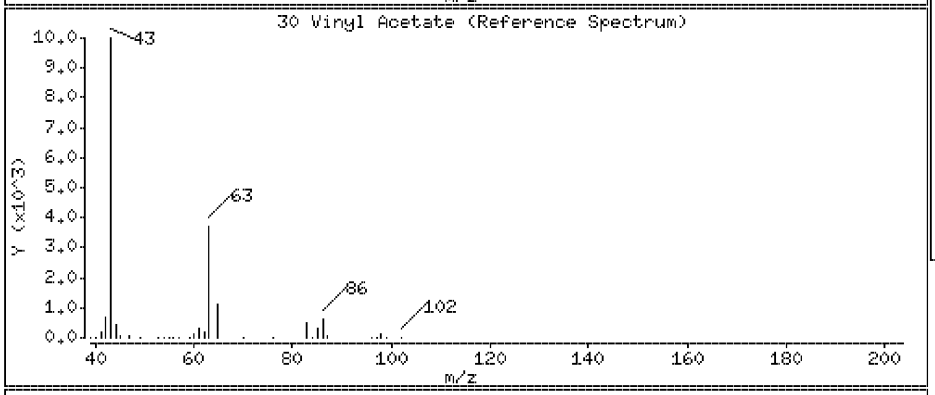
Concentration: 0.205 ppbv

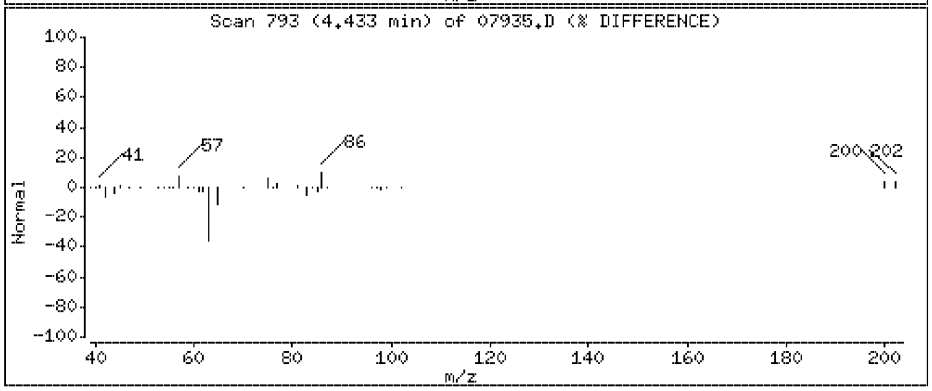












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

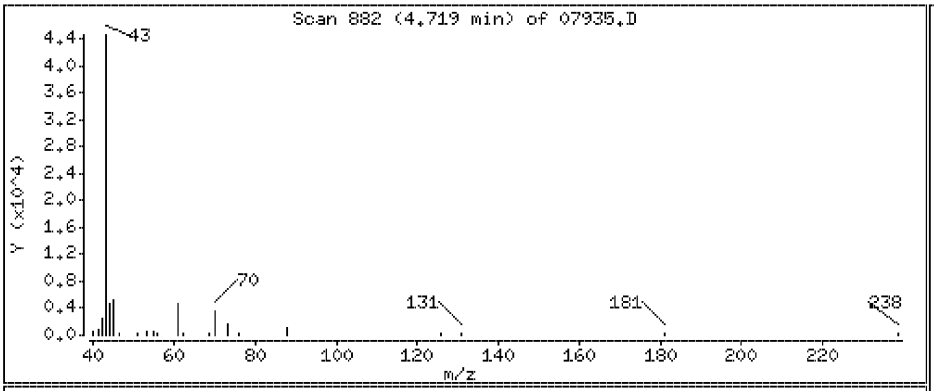
Operator: NCK

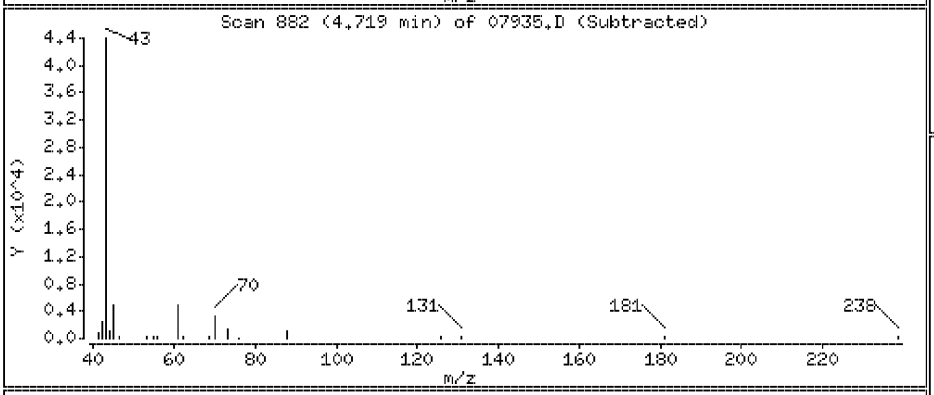
Column phase: J&W DB-5

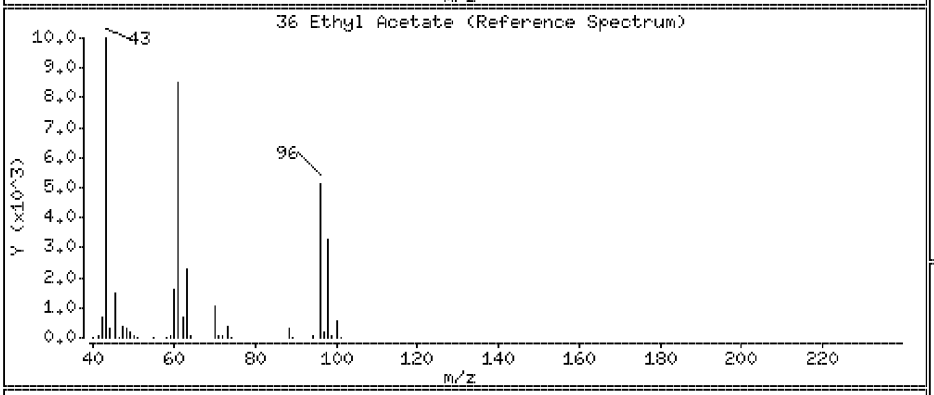
Column diameter: 0.32

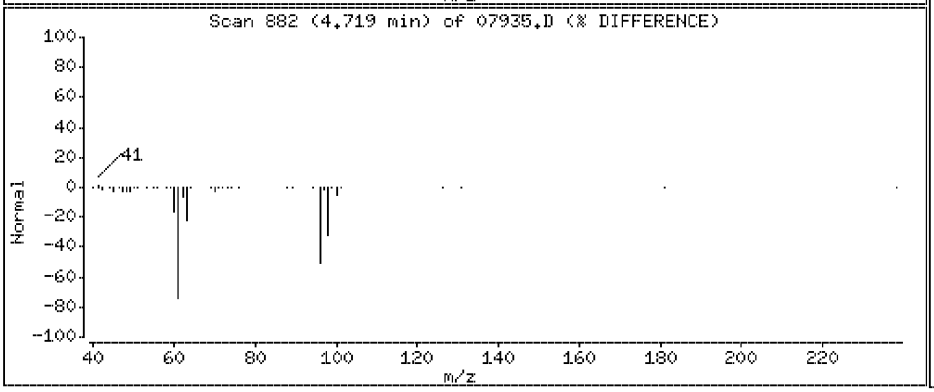
36 Ethyl Acetate

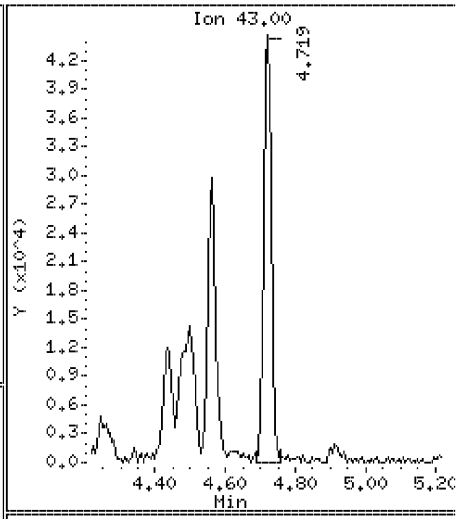
Concentration: 0.645 ppbv

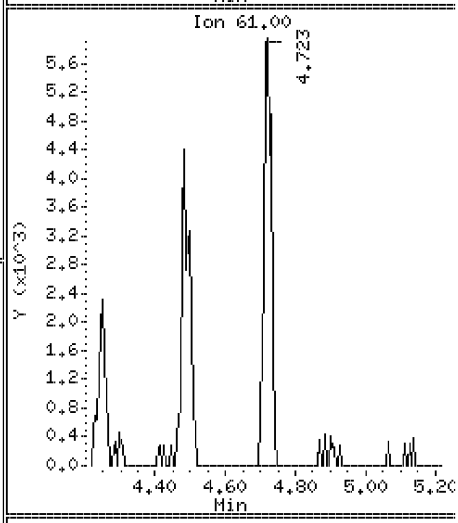


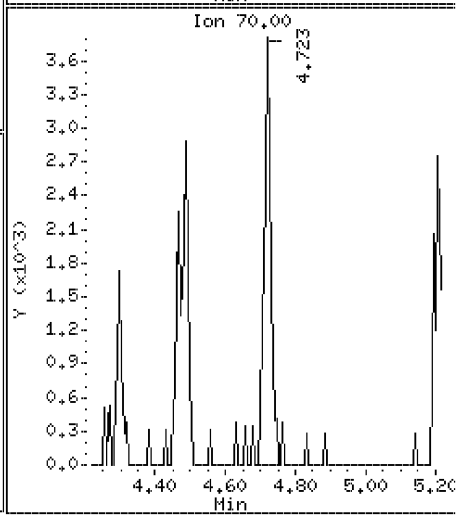












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

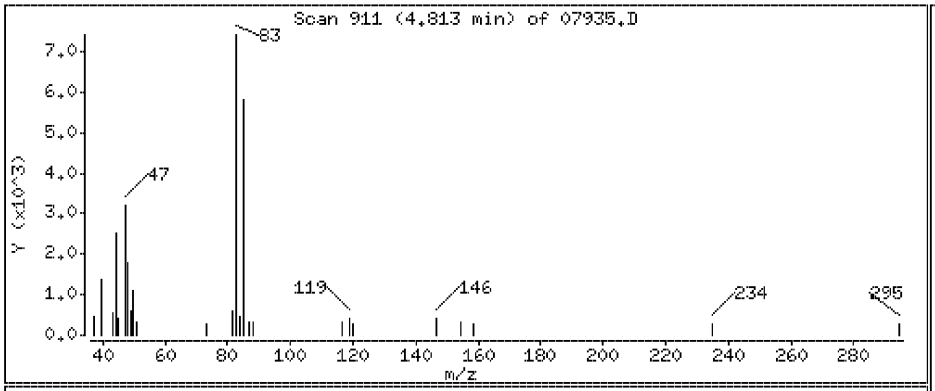
Operator: NCK

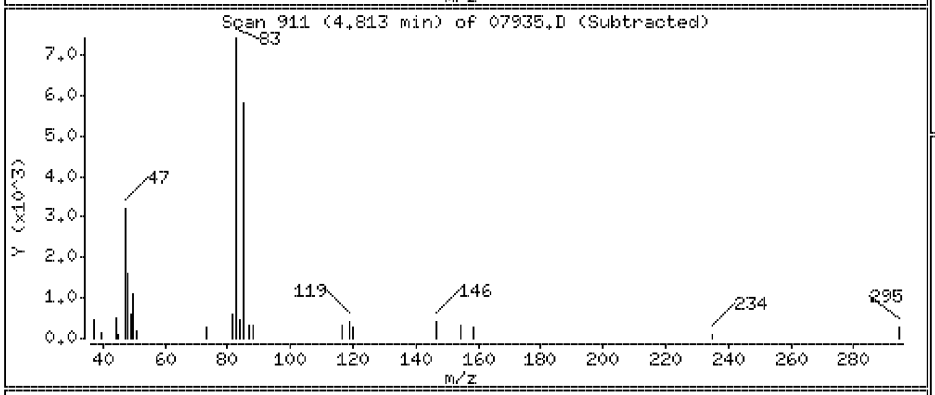
Column phase: J&W DB-5

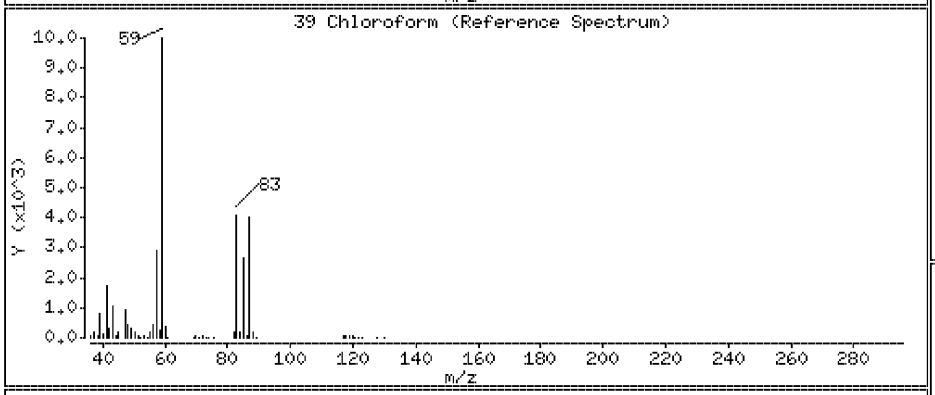
Column diameter: 0.32

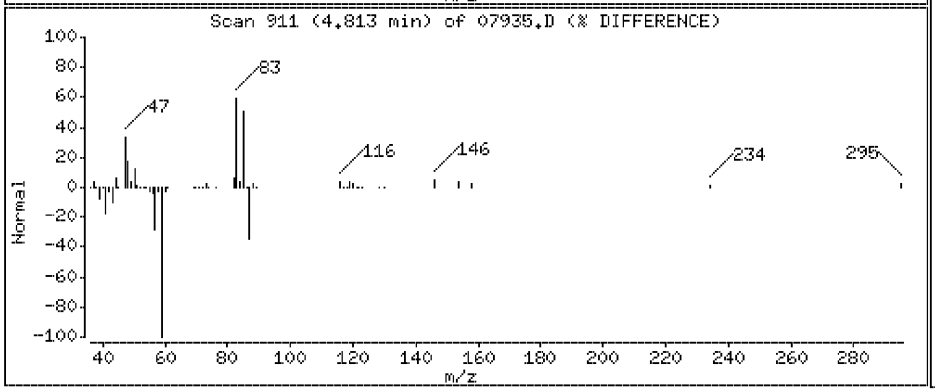
39 Chloroform

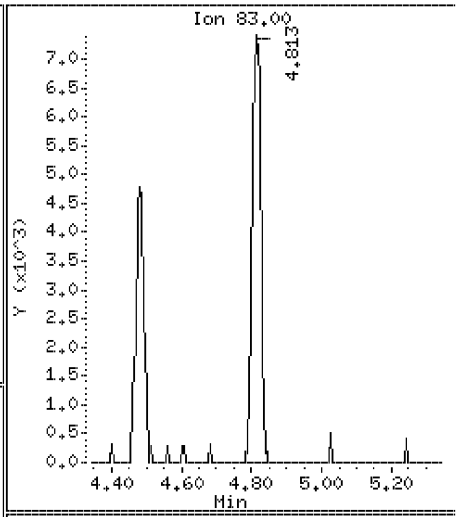
Concentration: 0.160 ppbv

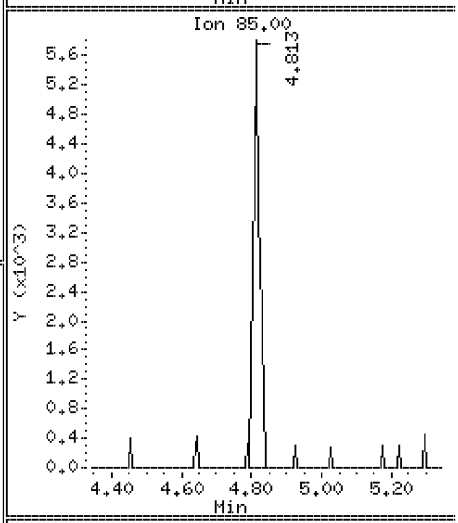


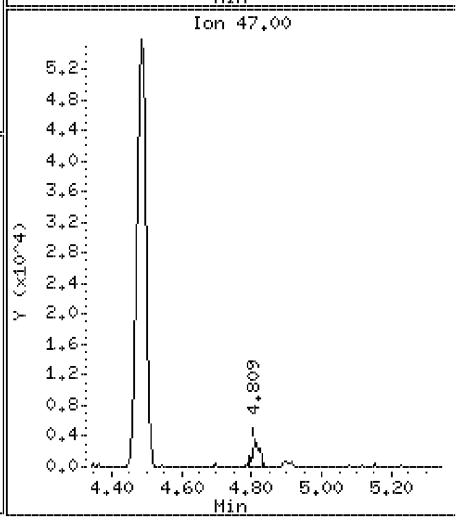












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

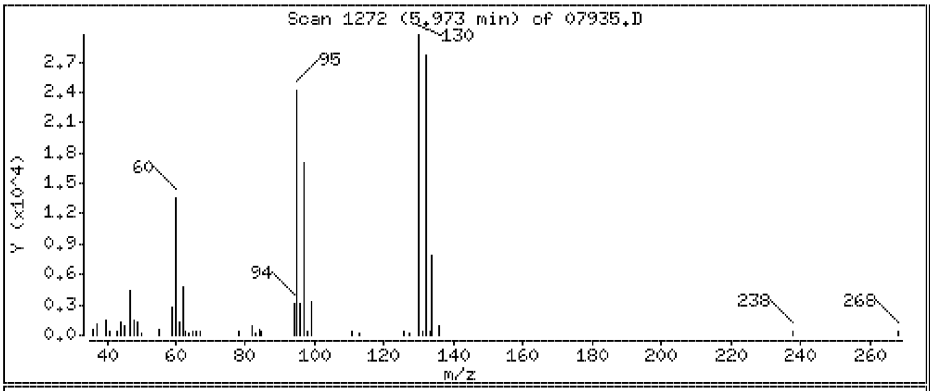
Operator: NCK

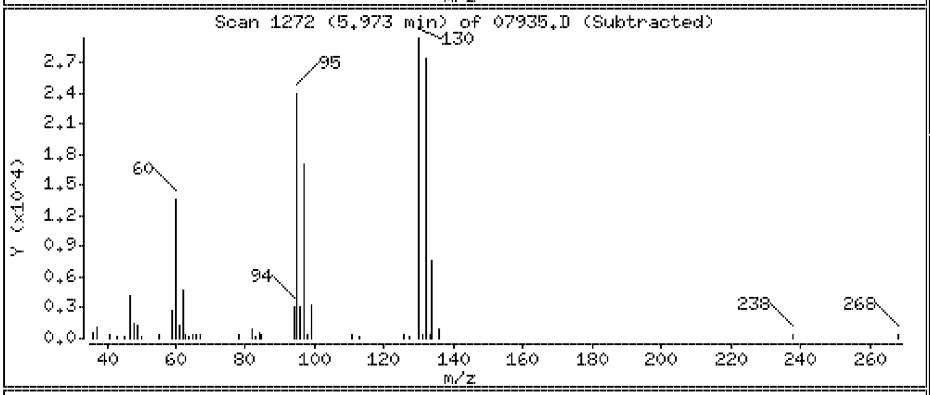
Column phase: J&W DB-5

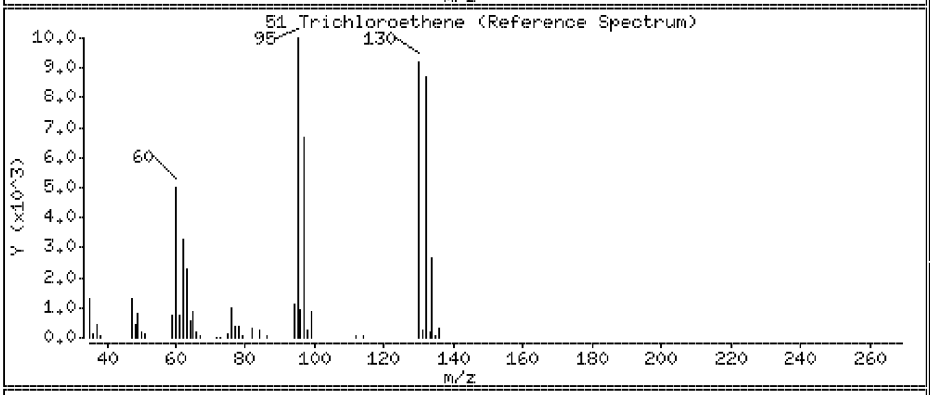
Column diameter: 0.32

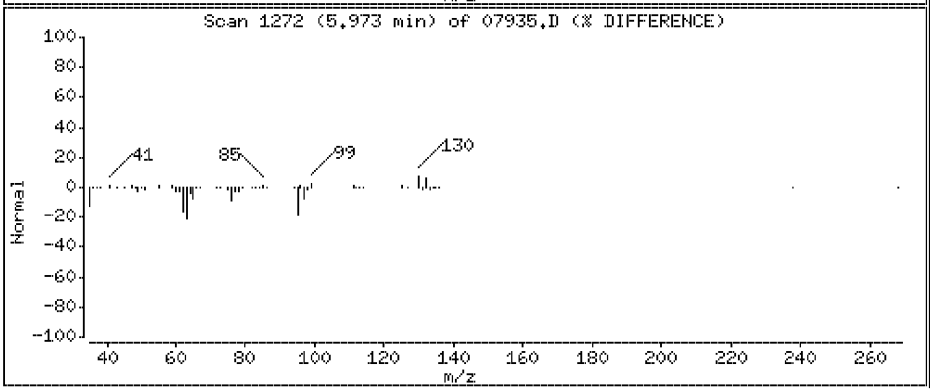
51 Trichloroethene

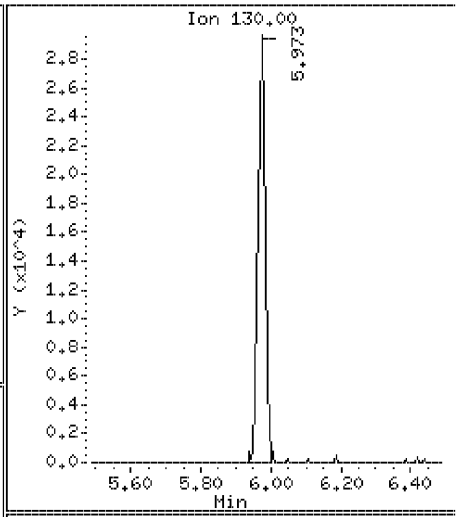
Concentration: 0.729 ppbv

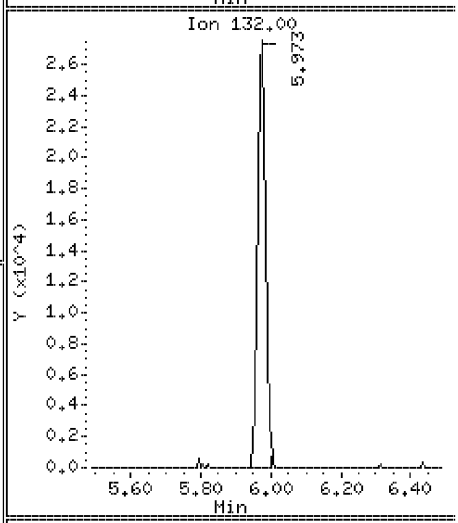


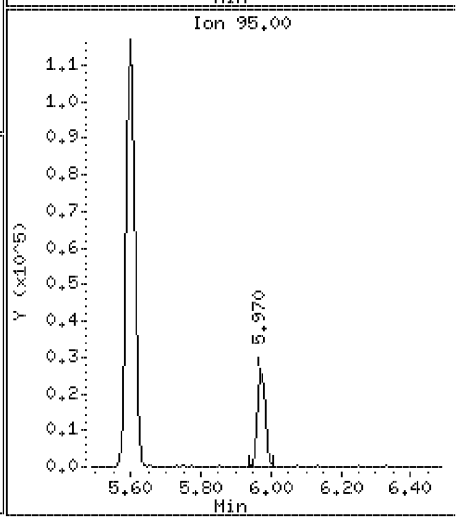












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

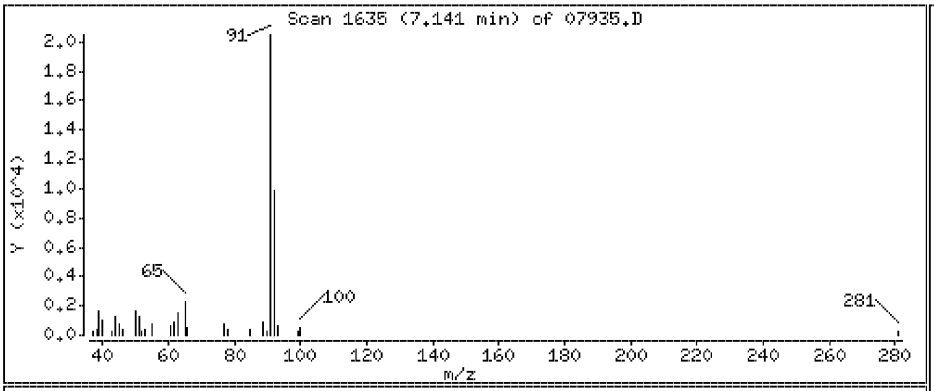
Operator: NCK

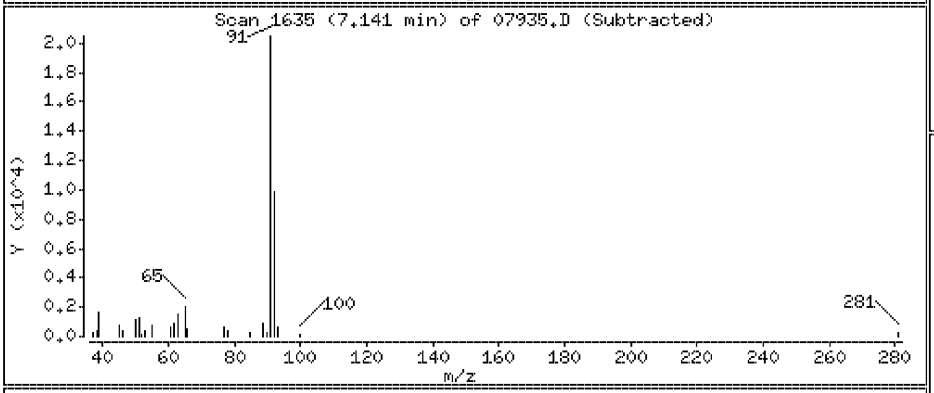
Column phase: J&W DB-5

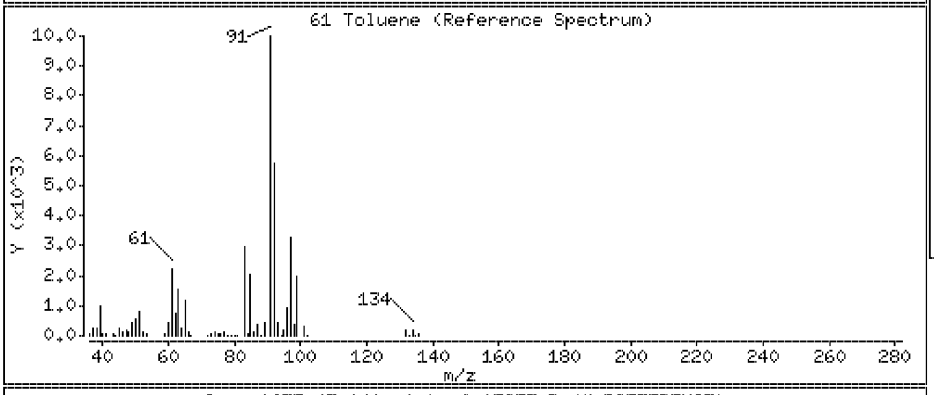
Column diameter: 0.32

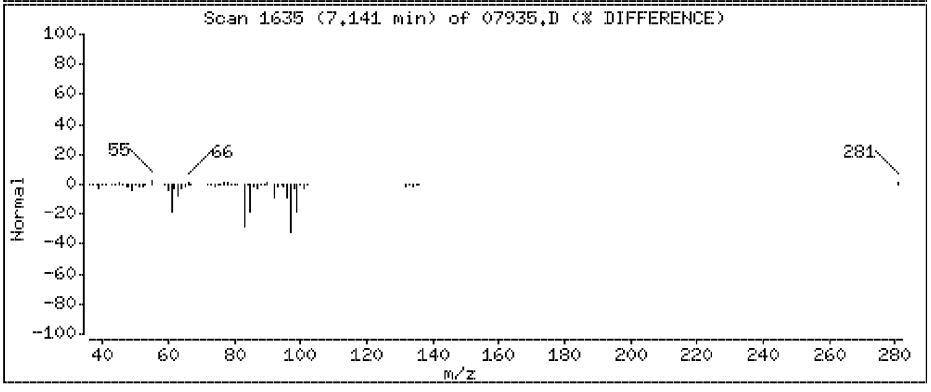
61 Toluene

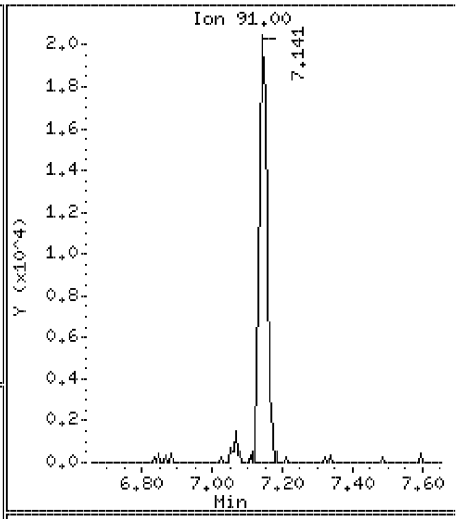
Concentration: 0.229 ppbv

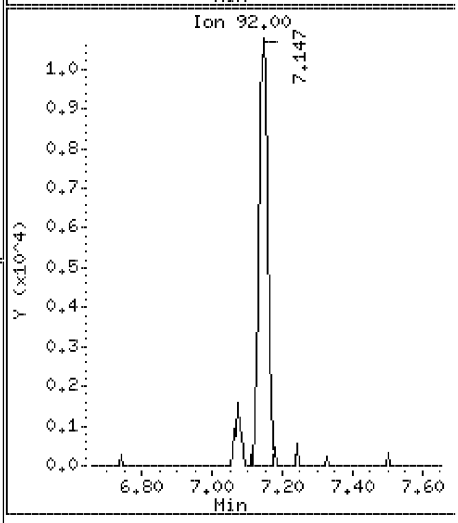












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

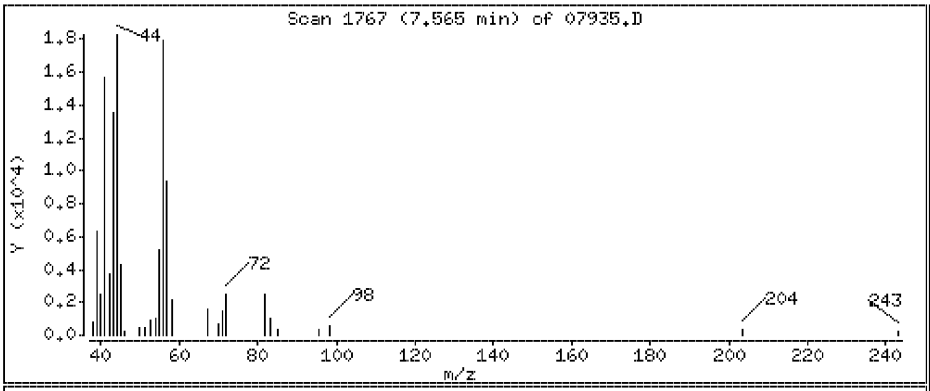
Operator: NCK

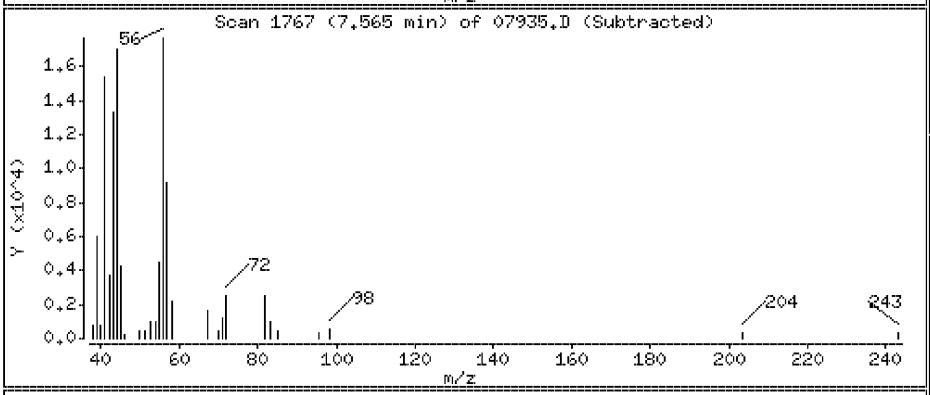
Column phase: J&W DB-5

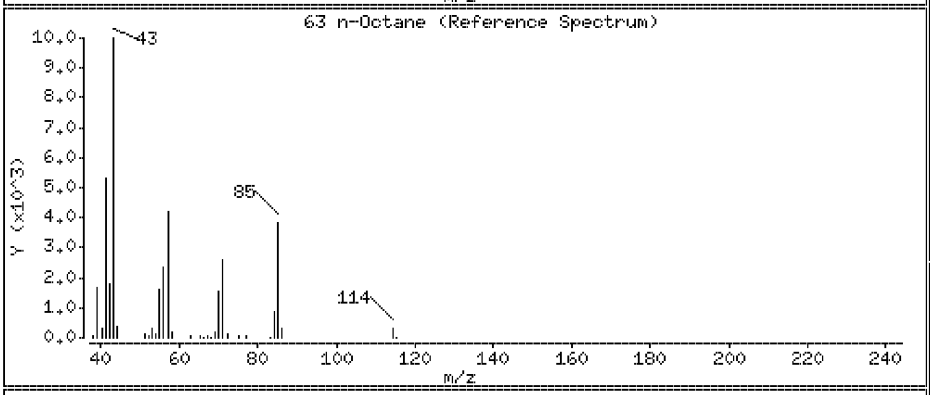
Column diameter: 0.32

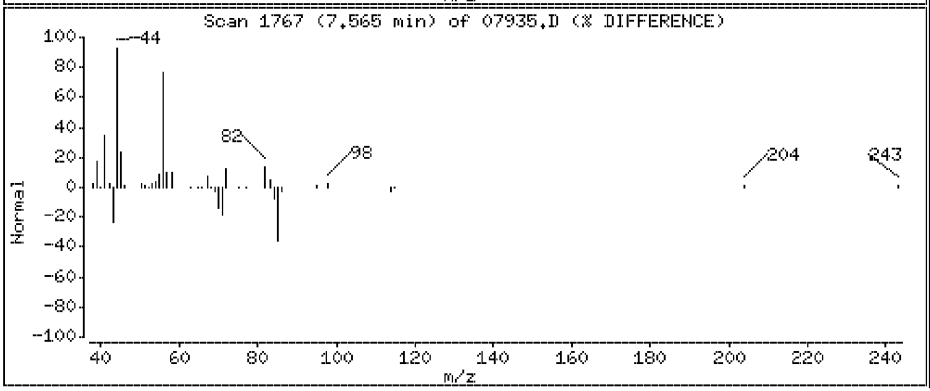
63 n-Octane

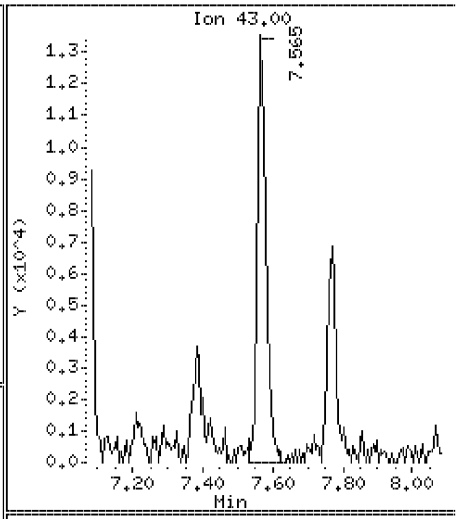
Concentration: 0.221 ppbv

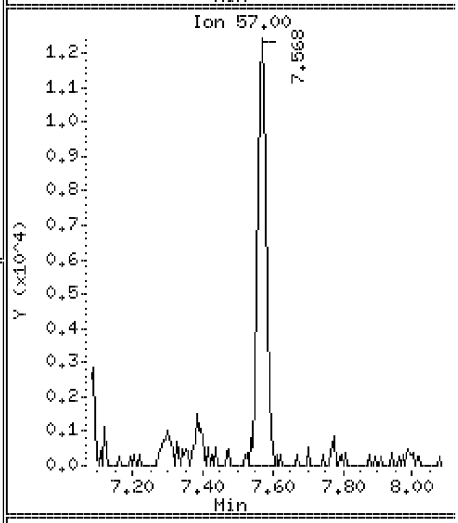


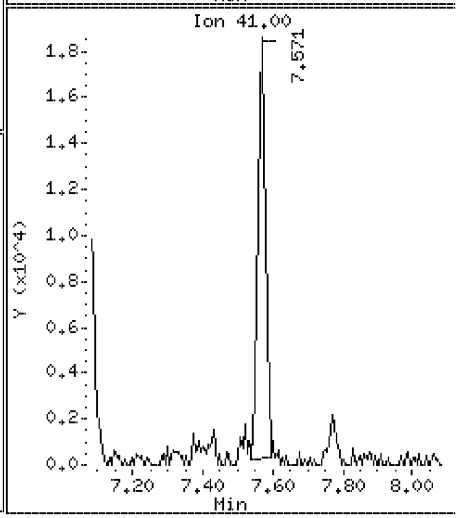












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

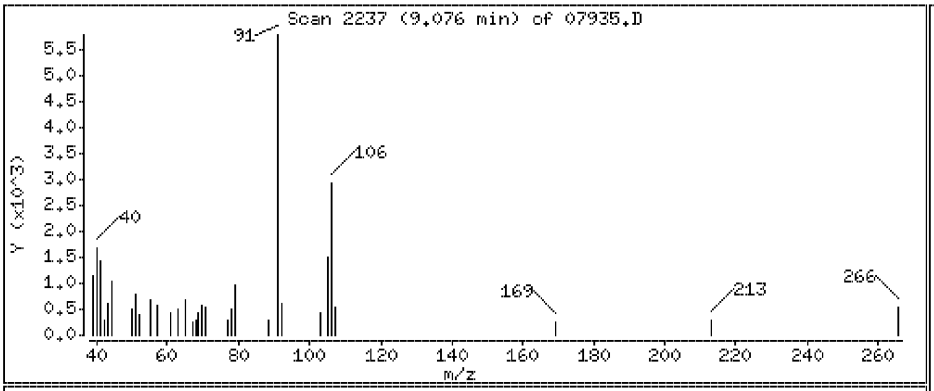
Operator: NCK

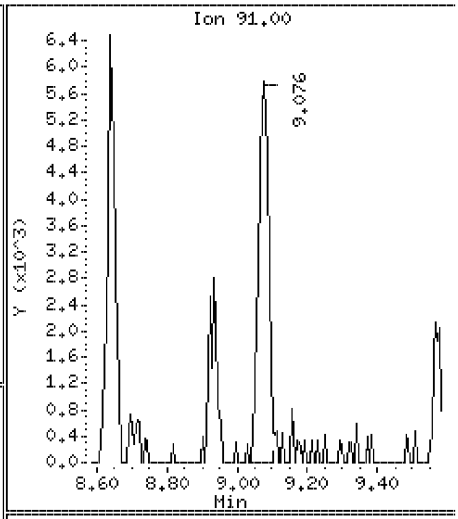
Column phase: J&W DB-5

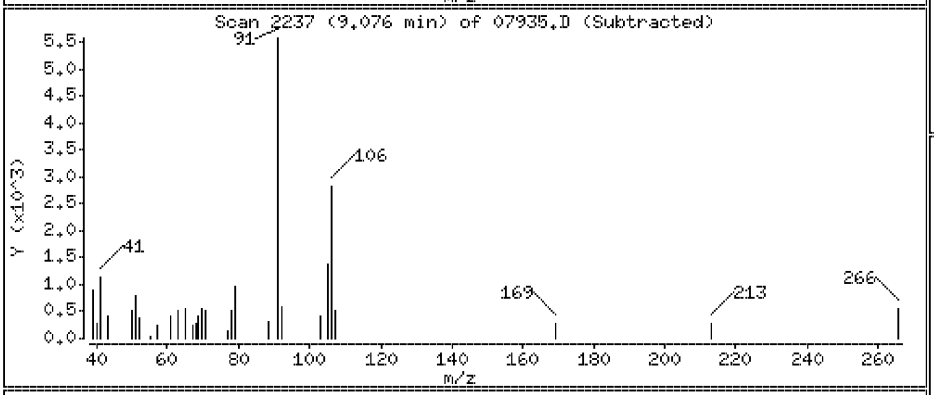
Column diameter: 0.32

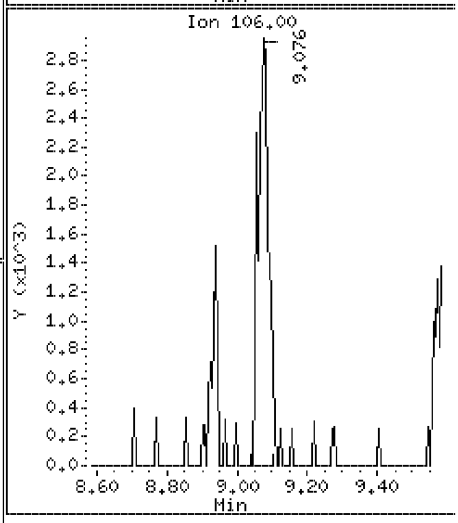
70 m&p-Xylene

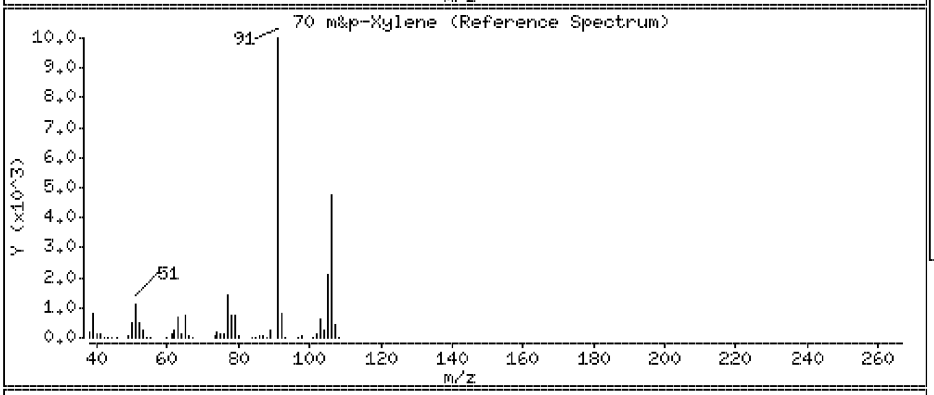
Concentration: 0.359 ppbv

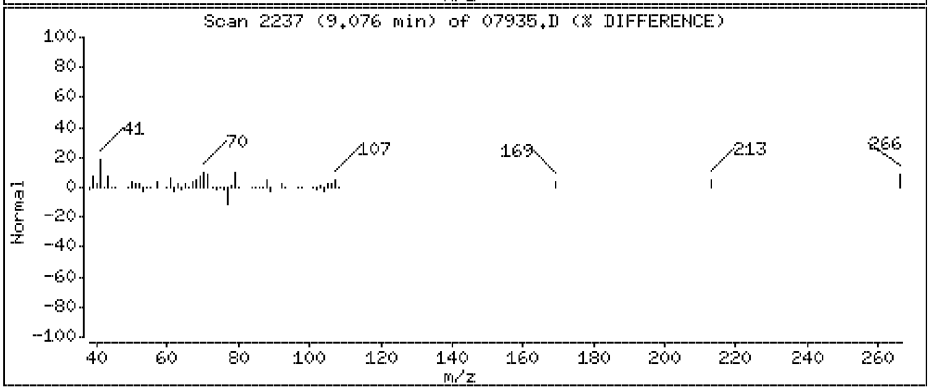












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

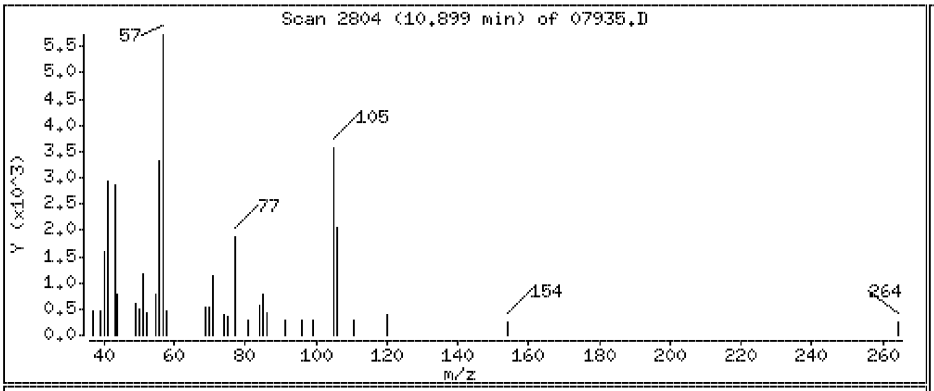
Operator: NCK

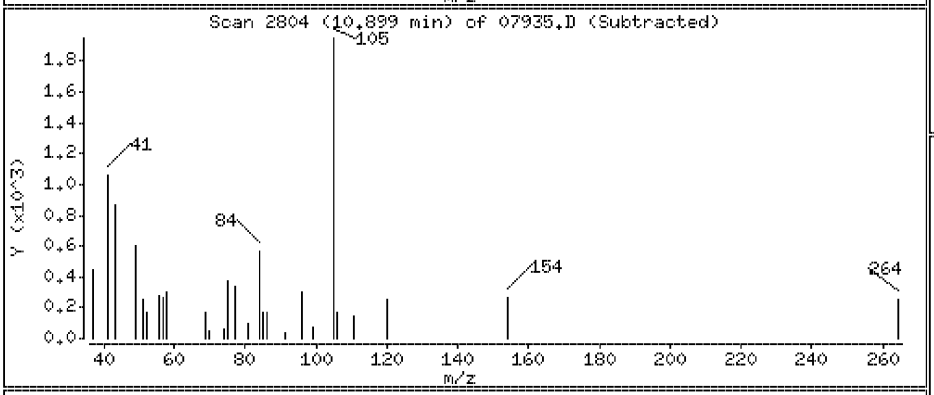
Column phase: J&W DB-5

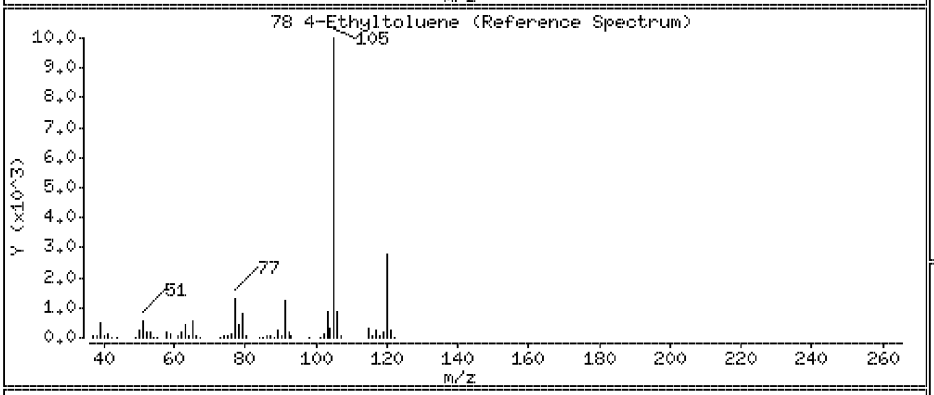
Column diameter: 0.32

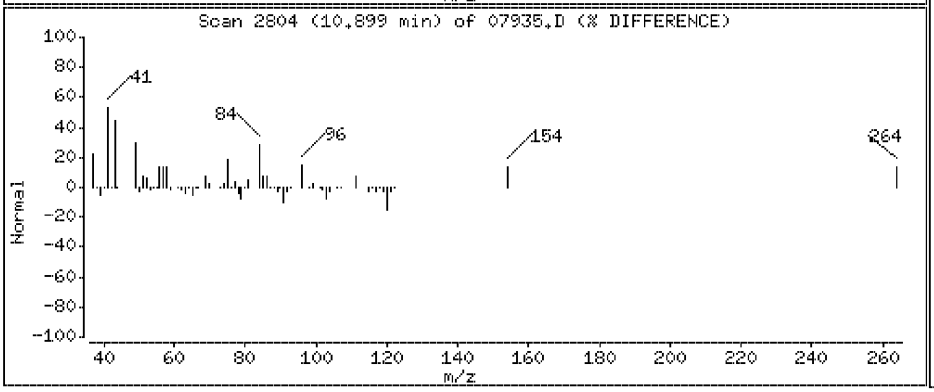
78 4-Ethyltoluene

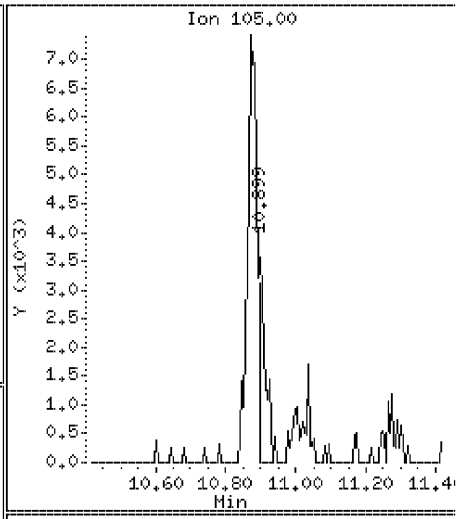
Concentration: 0.289 ppbv

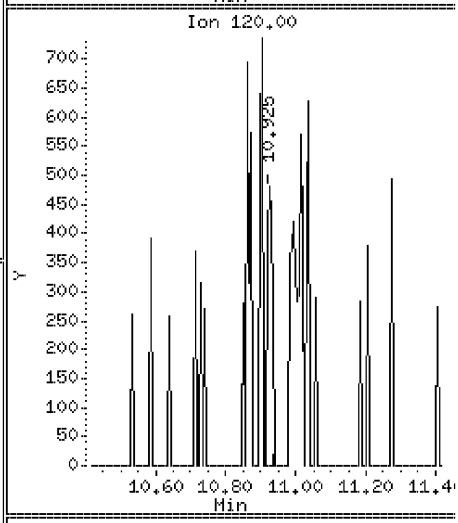


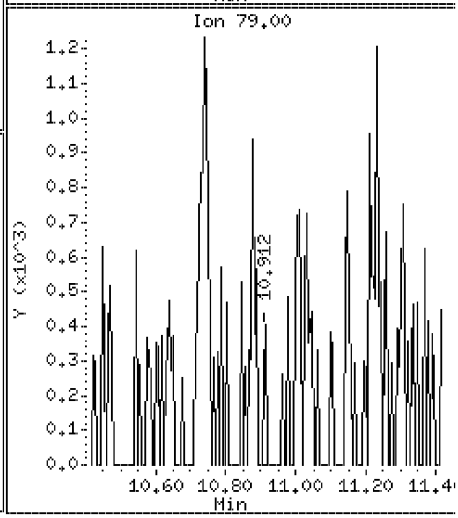












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

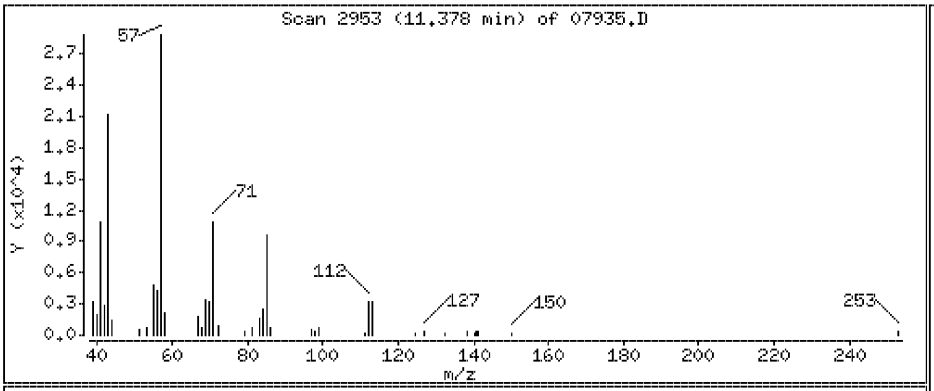
Operator: NCK

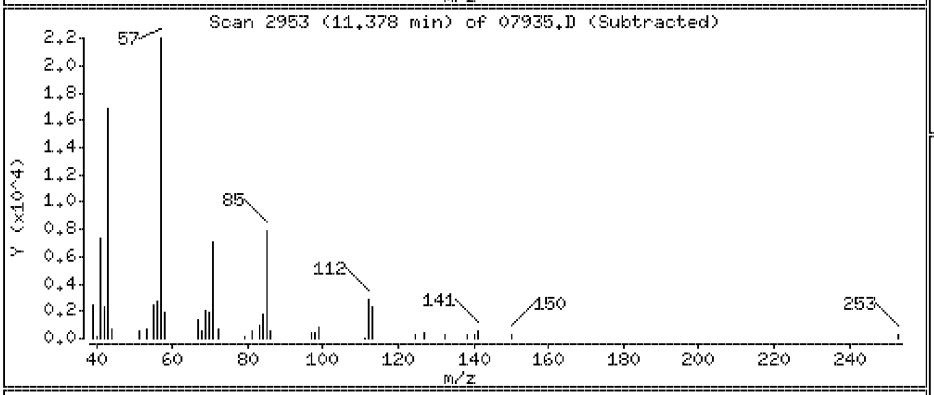
Column phase: J&W DB-5

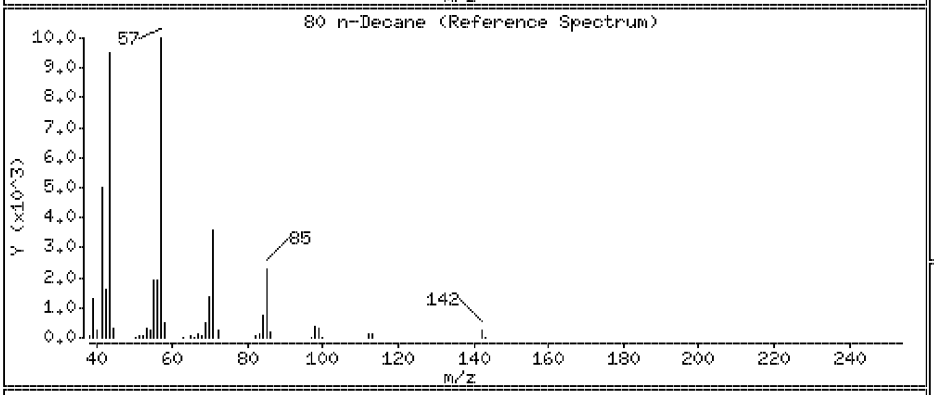
Column diameter: 0.32

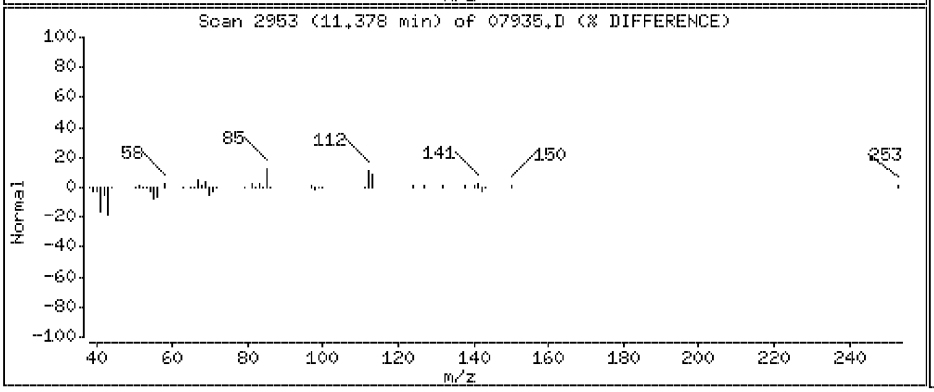
80 n-Decane

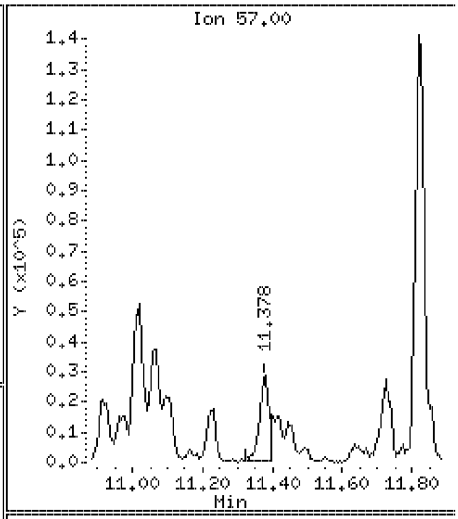
Concentration: 0.594 ppbv

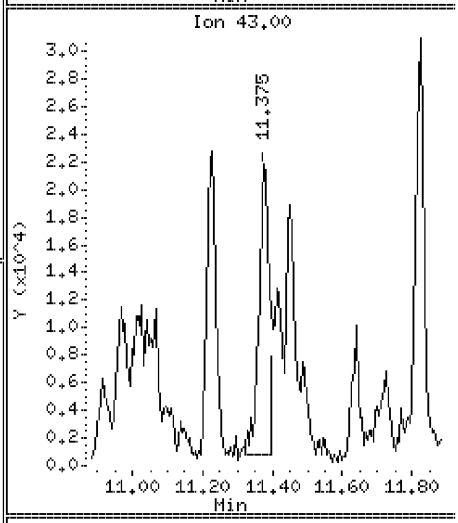


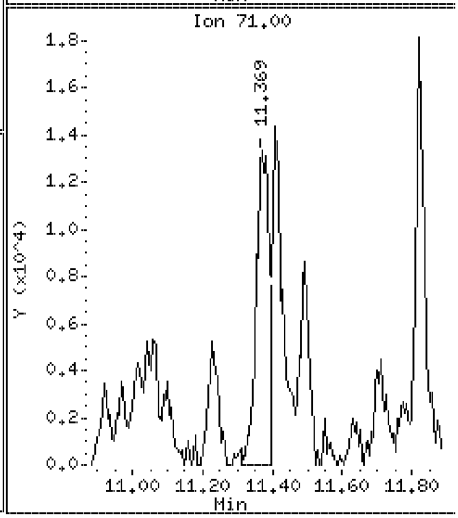












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

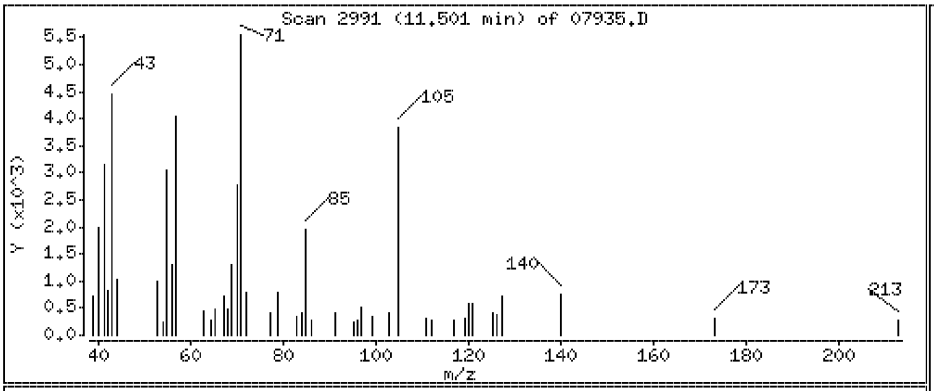
Operator: NCK

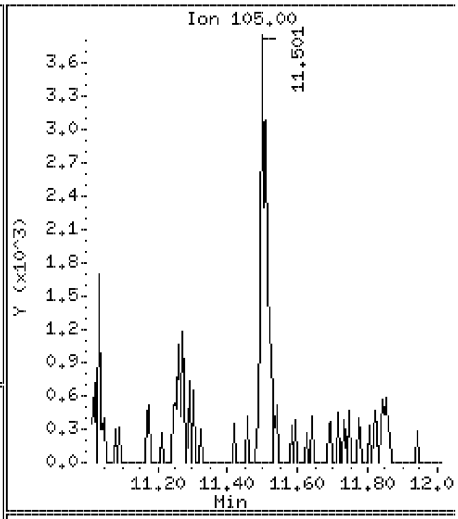
Column phase: J&W DB-5

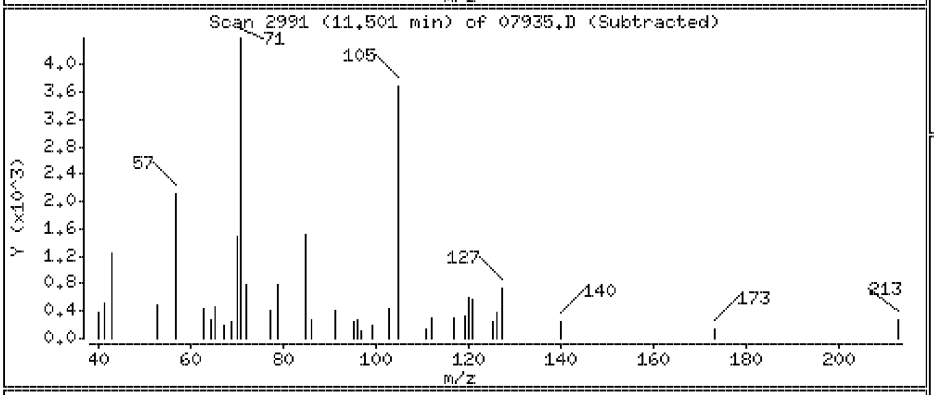
Column diameter: 0.32

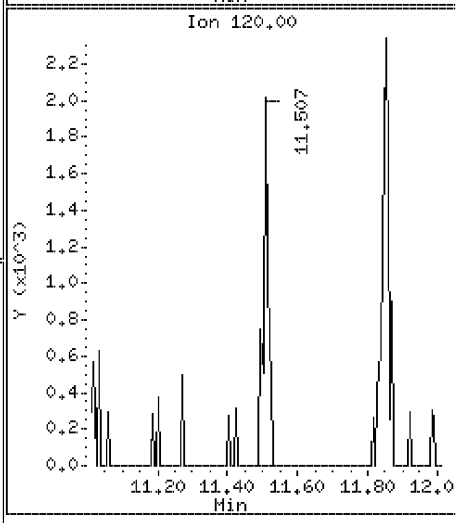
82 1,2,4-Trimethylbenzene

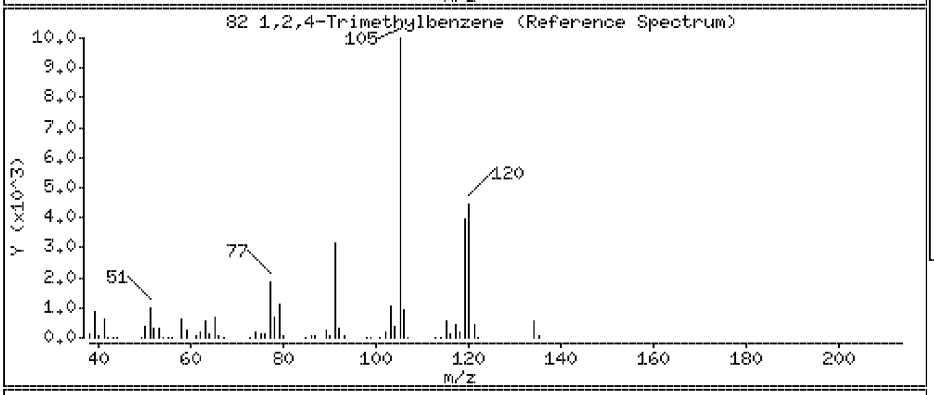
Concentration: 0.252 ppbv

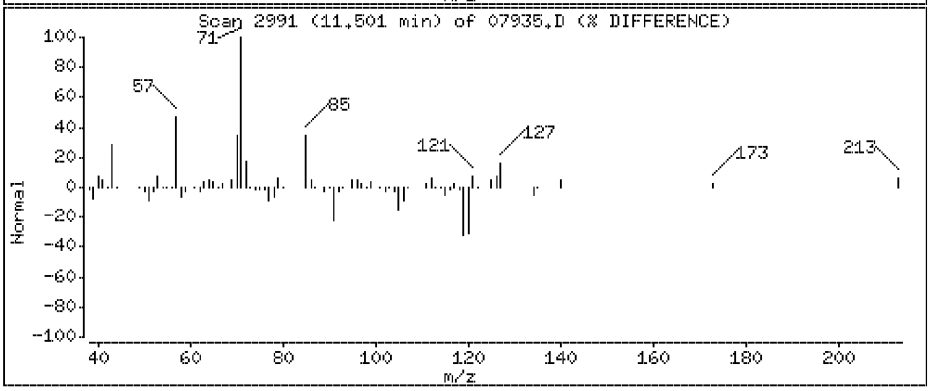












Data File: \\192.168.10.12\chem\10airB.i\032017.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

Instrument: 10airB.i

Sample Info:

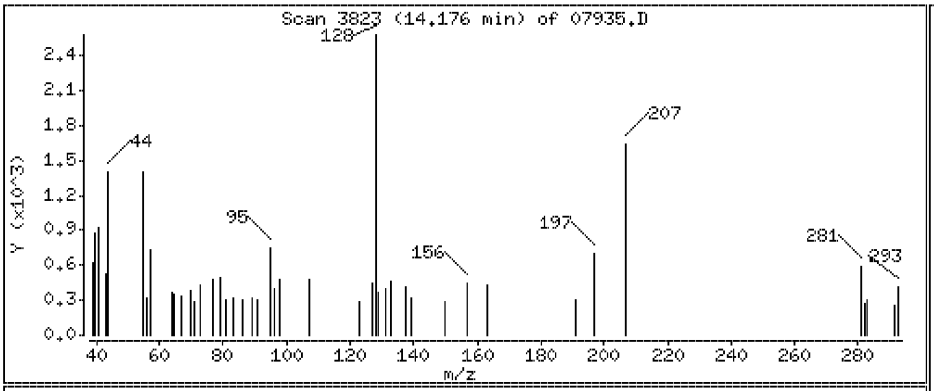
Operator: NCK

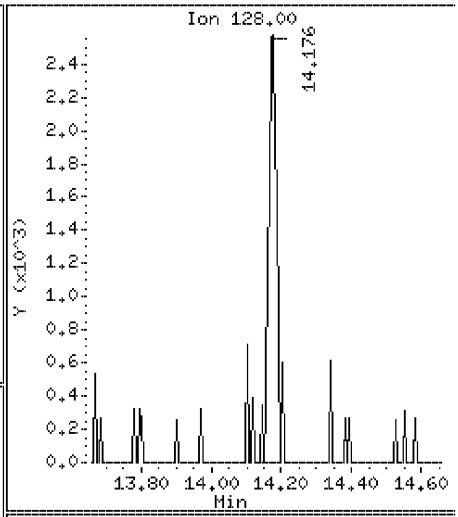
Column phase: J&W DB-5

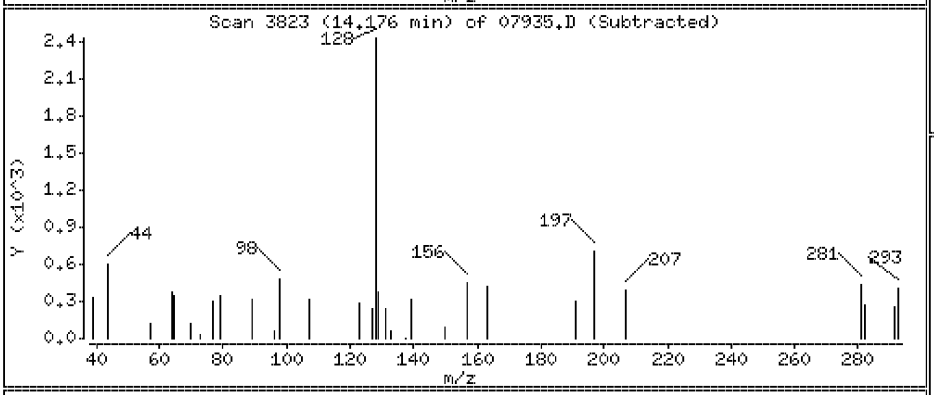
Column diameter: 0.32

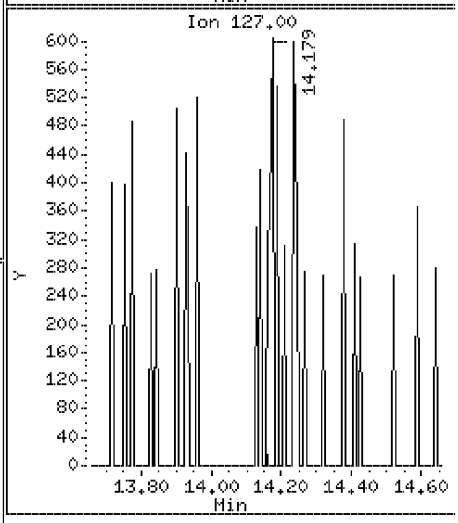
94 Naphthalene

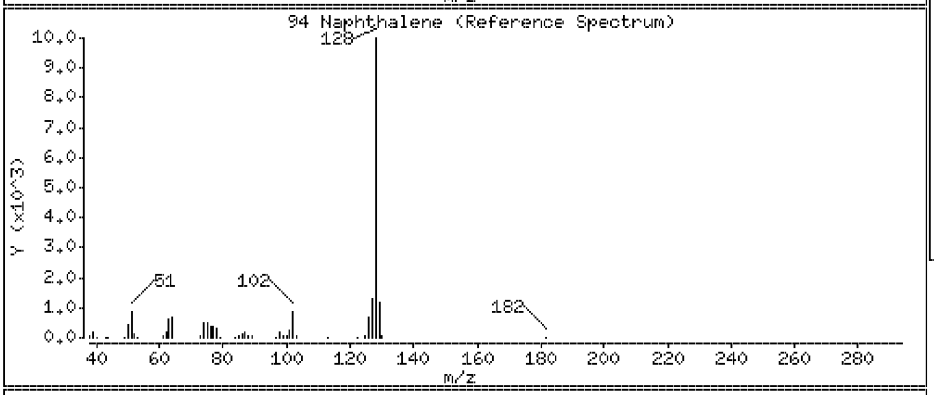
Concentration: 0.761 ppbv

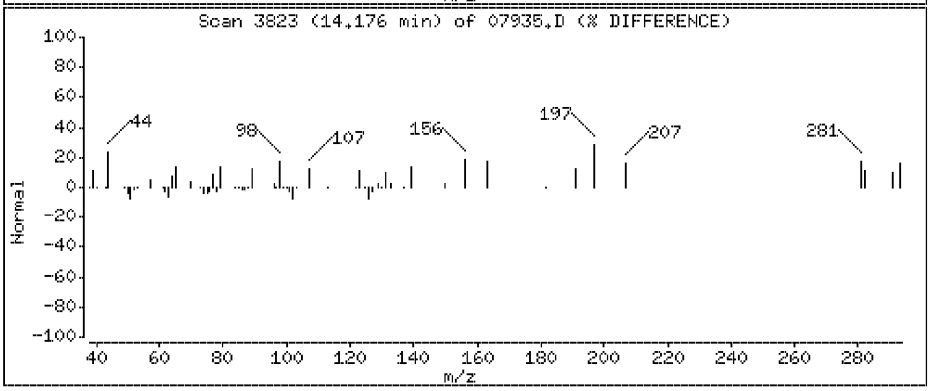






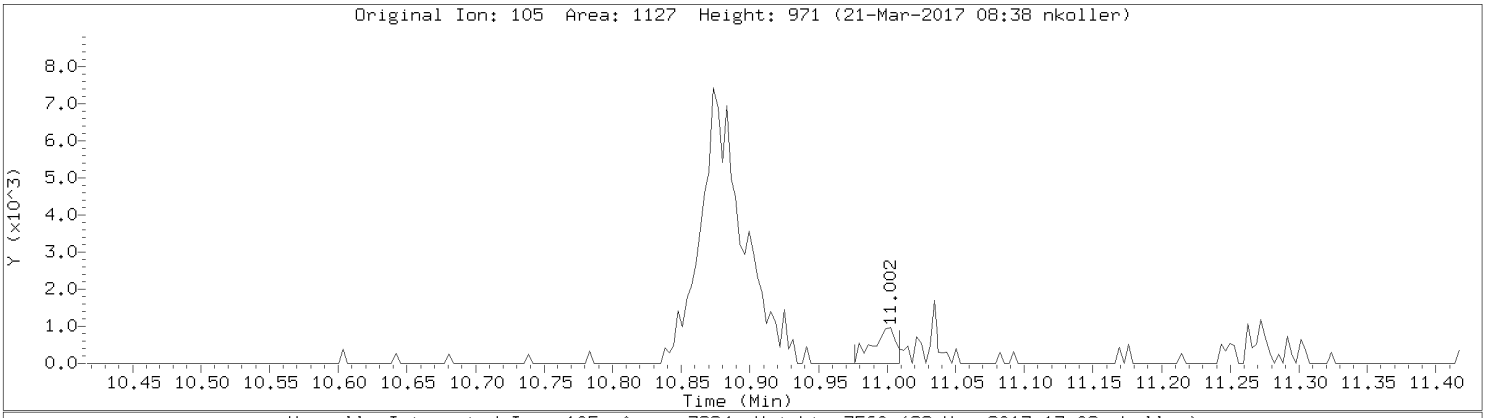


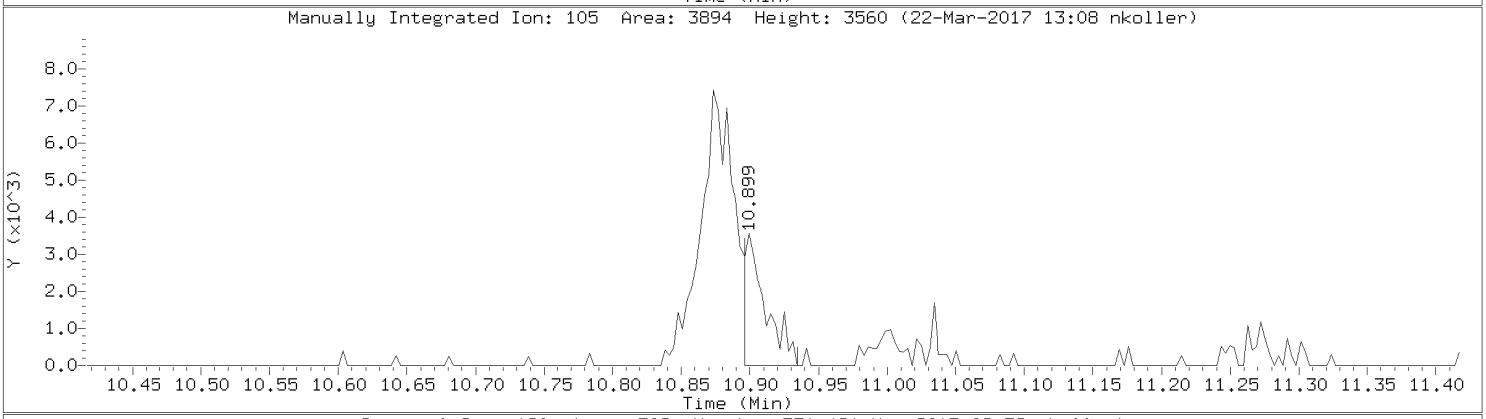


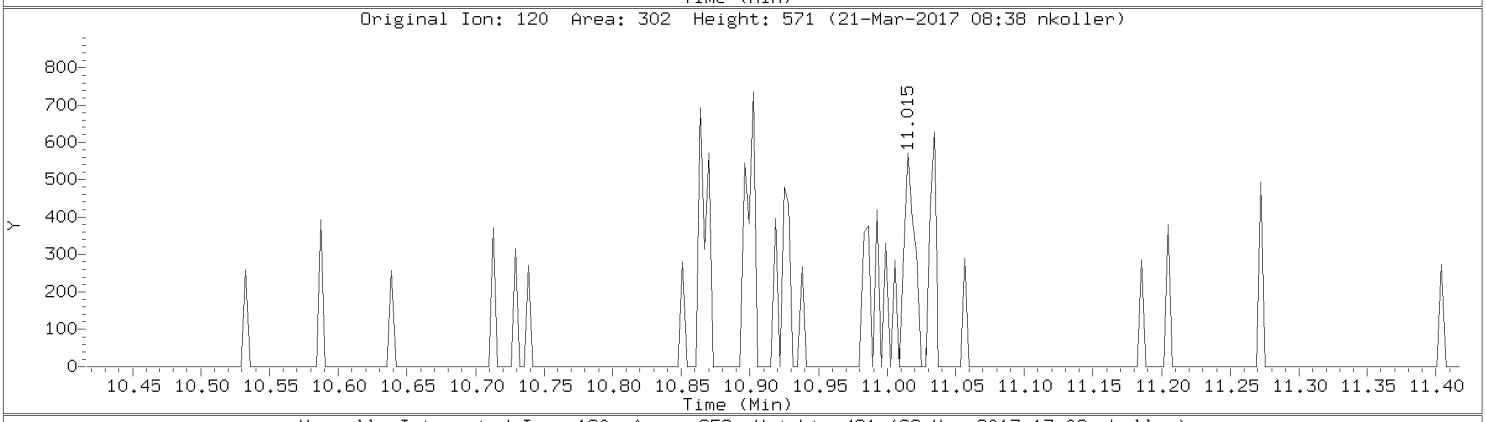


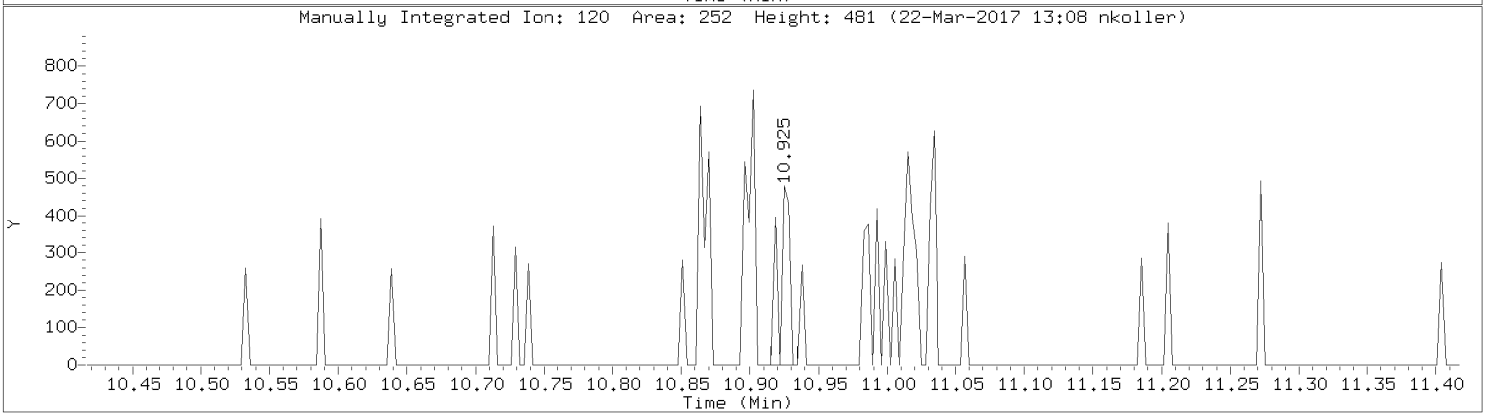
Data File: \\192.168.10.12\chem\10airB.i\032017.b/07935.D
Injection Date: 21-MAR-2017 03:21
Instrument: 10airB.i
Lab Sample ID: 10381035002

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

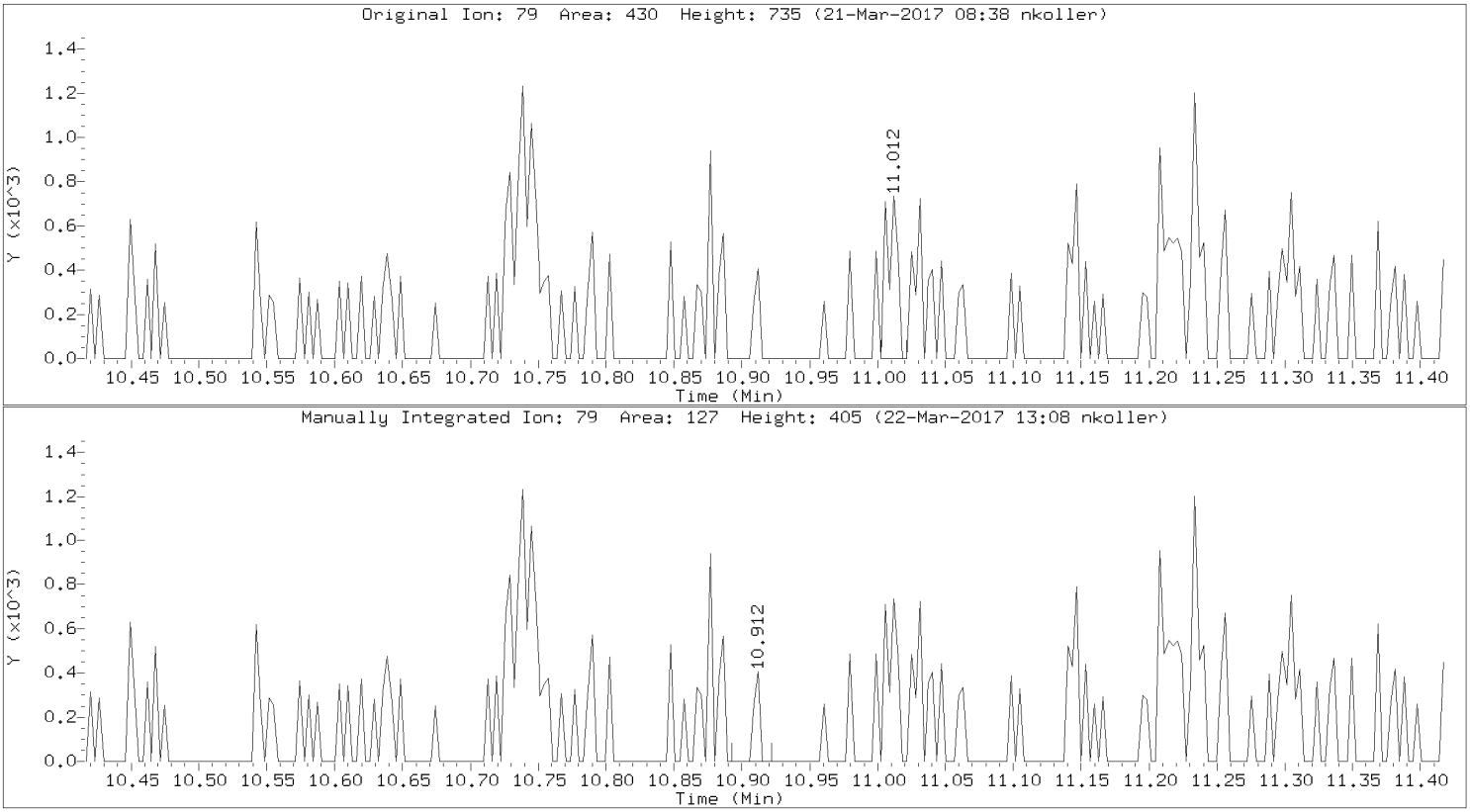






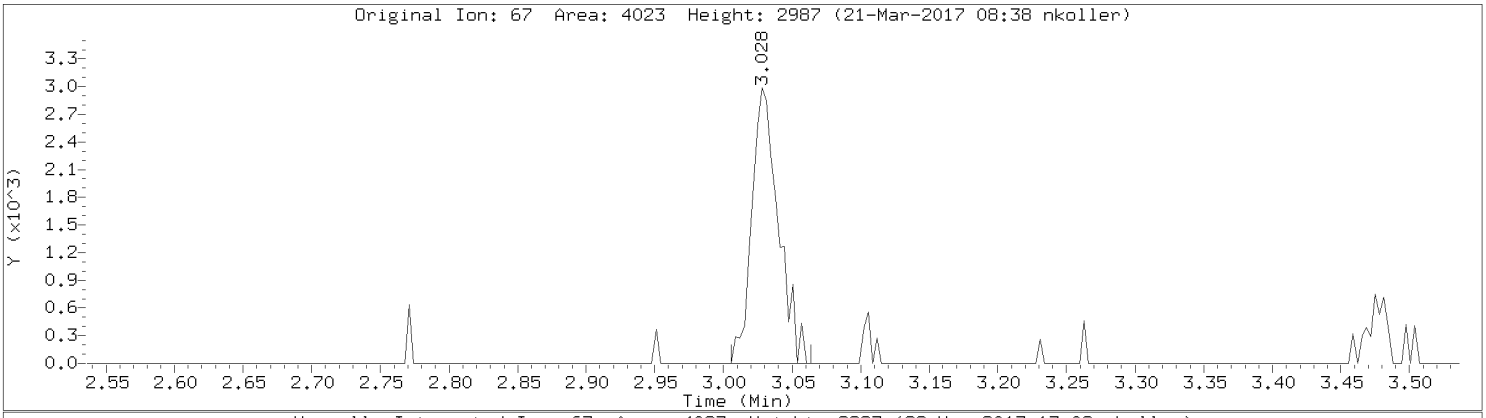


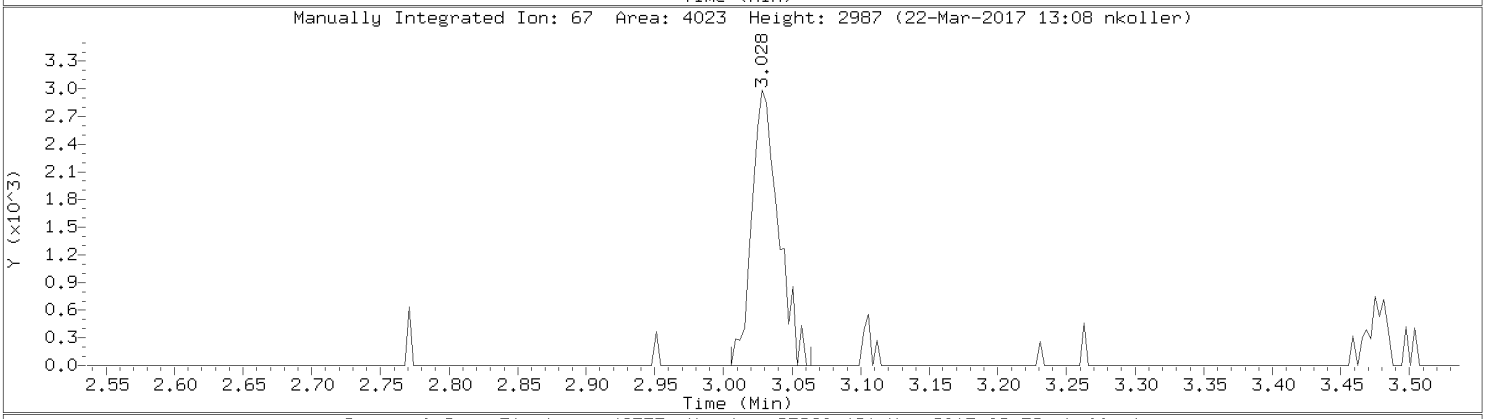
Data File: \\192.168.10.12\chem\10airB.i\032017.b/07935.D
Injection Date: 21-MAR-2017 03:21
Instrument: 10airB.i
Lab Sample ID: 10381035002

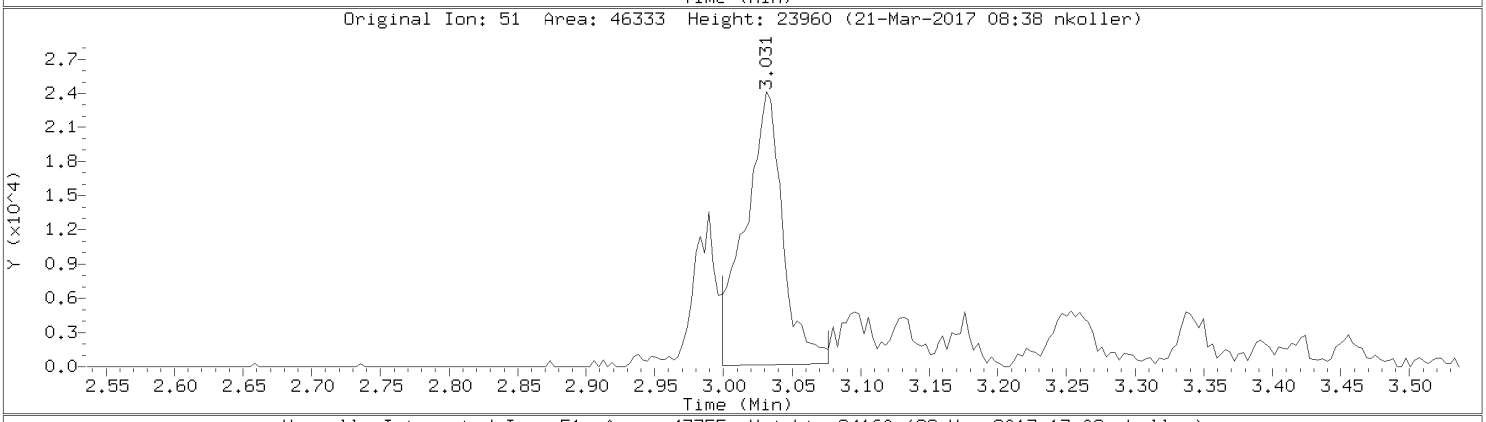


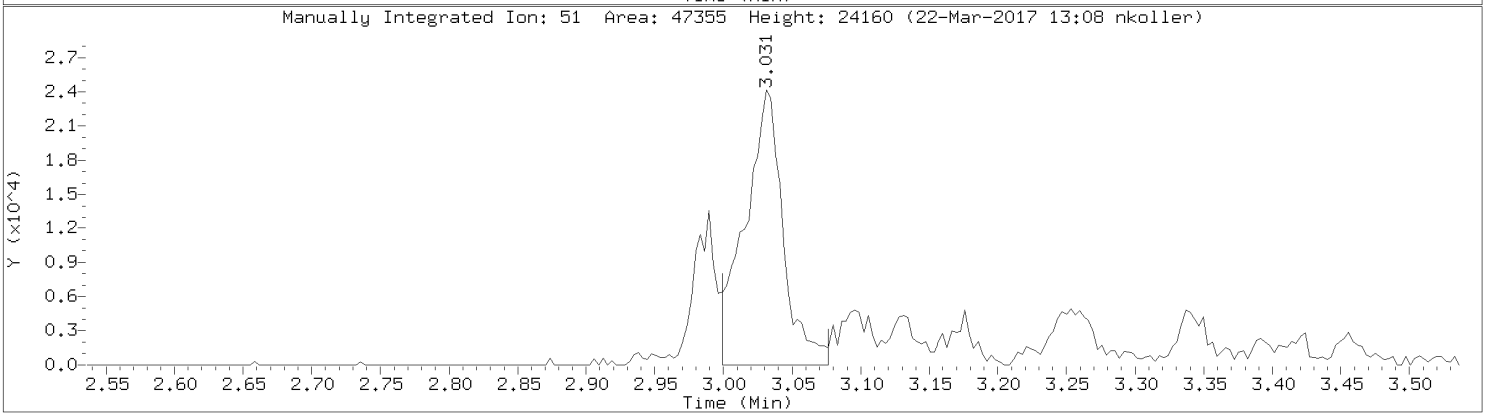
Data File: \\192.168.10.12\chem\10airB.i\032017.b/07935.D
Injection Date: 21-MAR-2017 03:21
Instrument: 10airB.i
Lab Sample ID: 10381035002

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

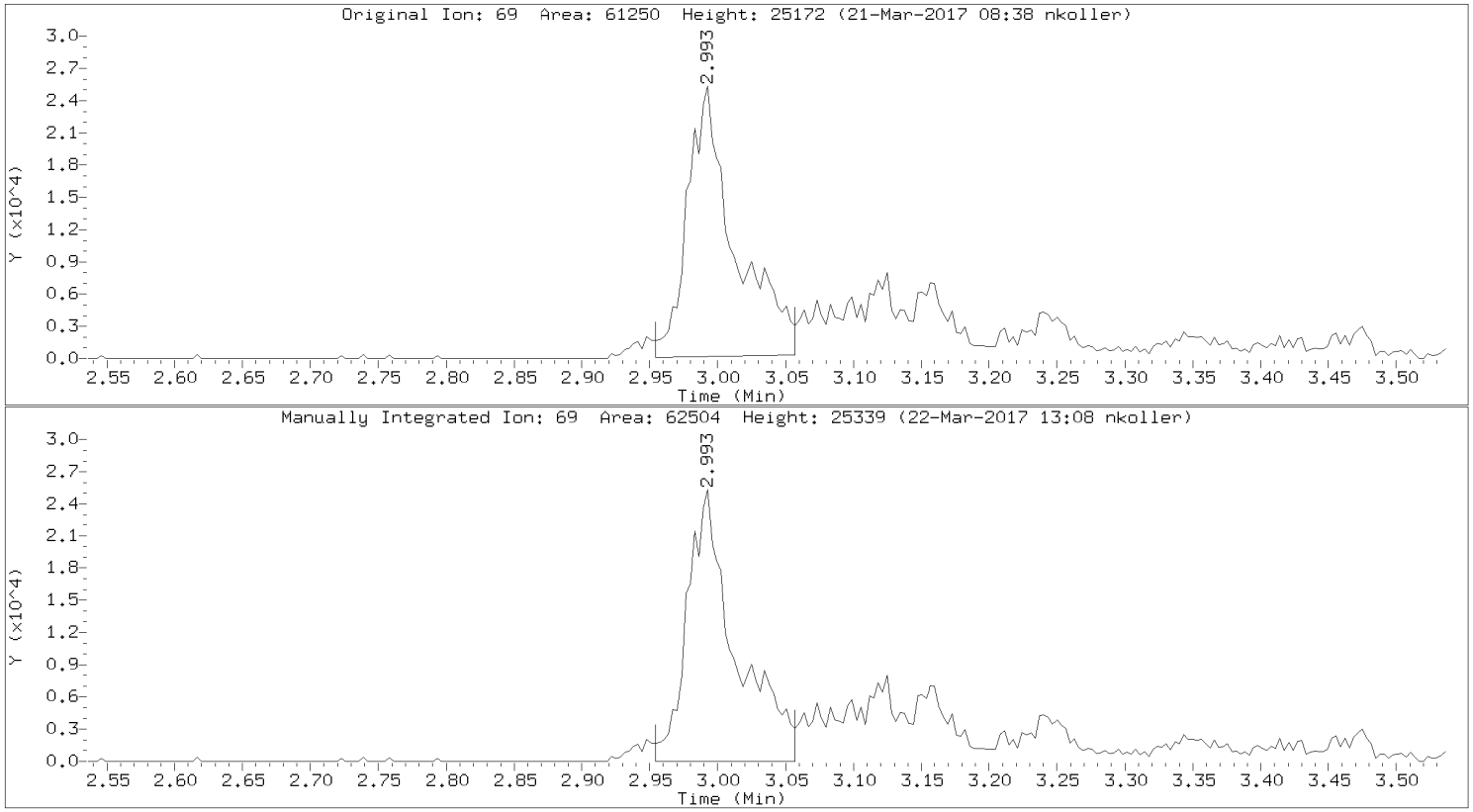






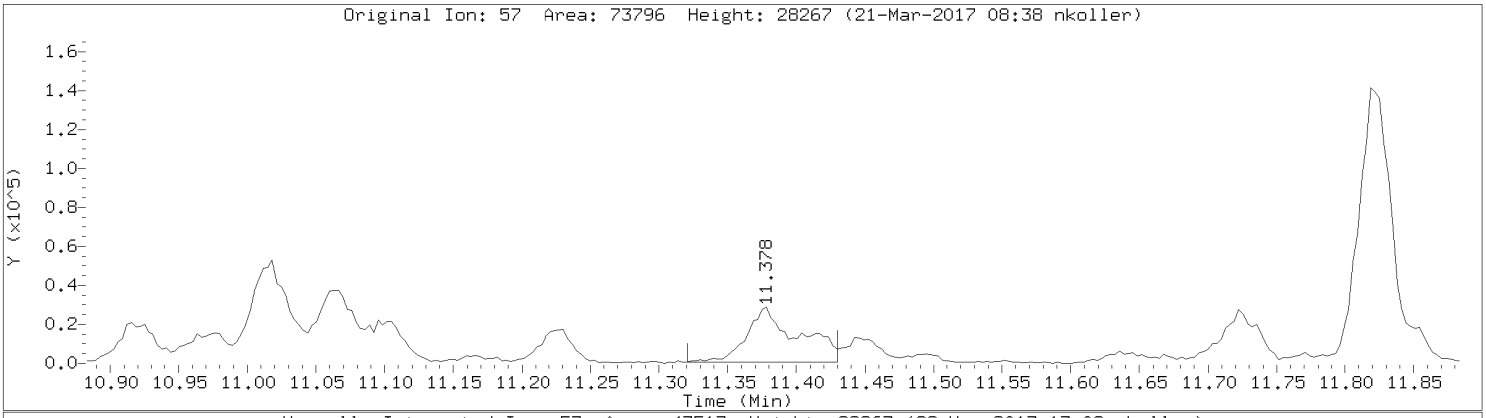


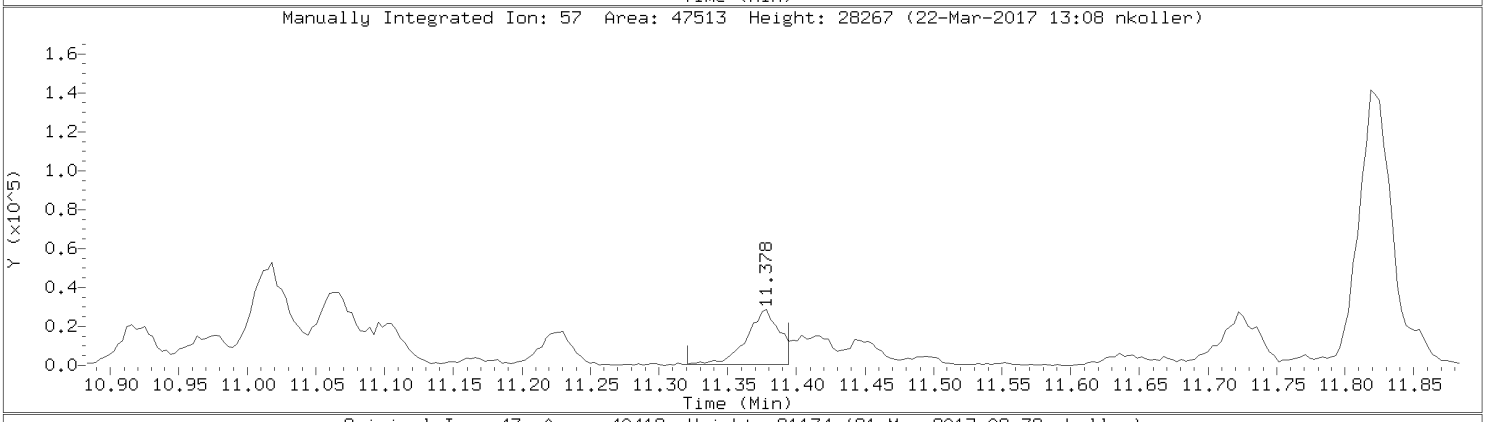
Data File: \\192.168.10.12\chem\10airB.i\032017.b/07935.D
Injection Date: 21-MAR-2017 03:21
Instrument: 10airB.i
Lab Sample ID: 10381035002

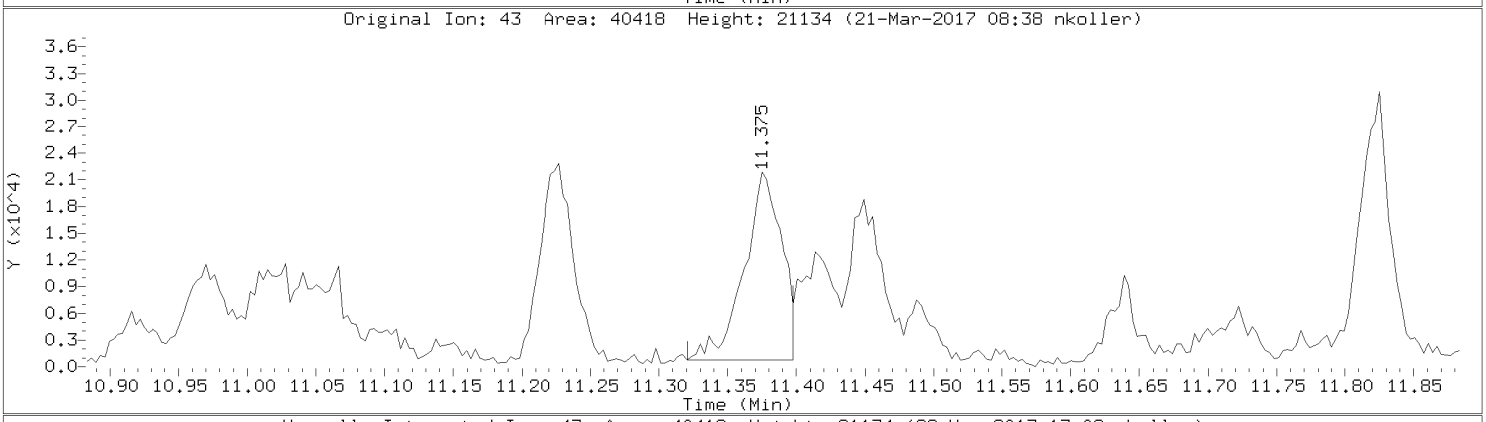


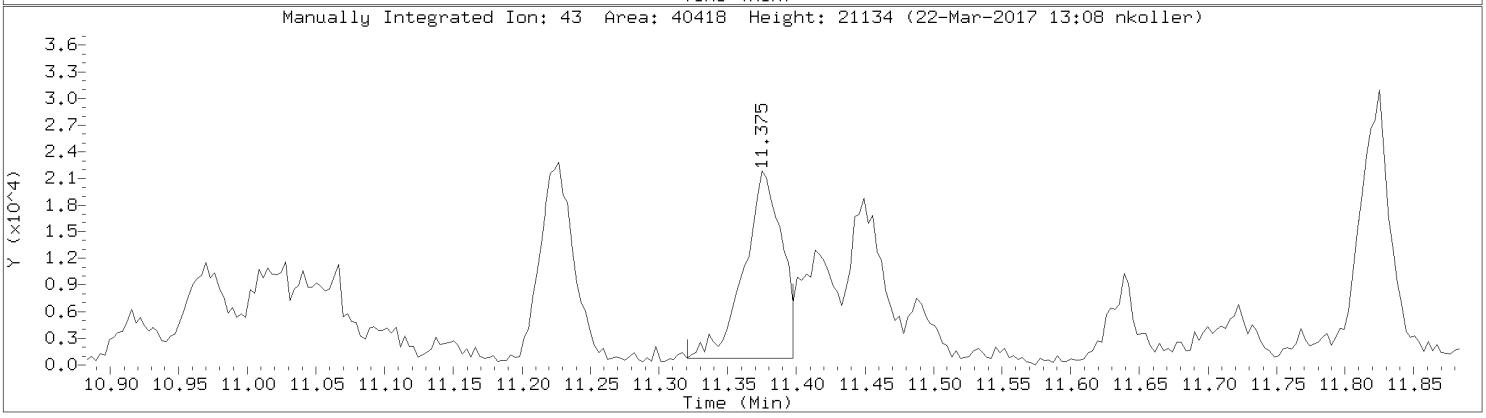
Data File: \\192.168.10.12\chem\10airB.i\032017.b/07935.D
Injection Date: 21-MAR-2017 03:21
Instrument: 10airB.i
Lab Sample ID: 10381035002

Compound: n-Decane
CAS Number: 124-18-5

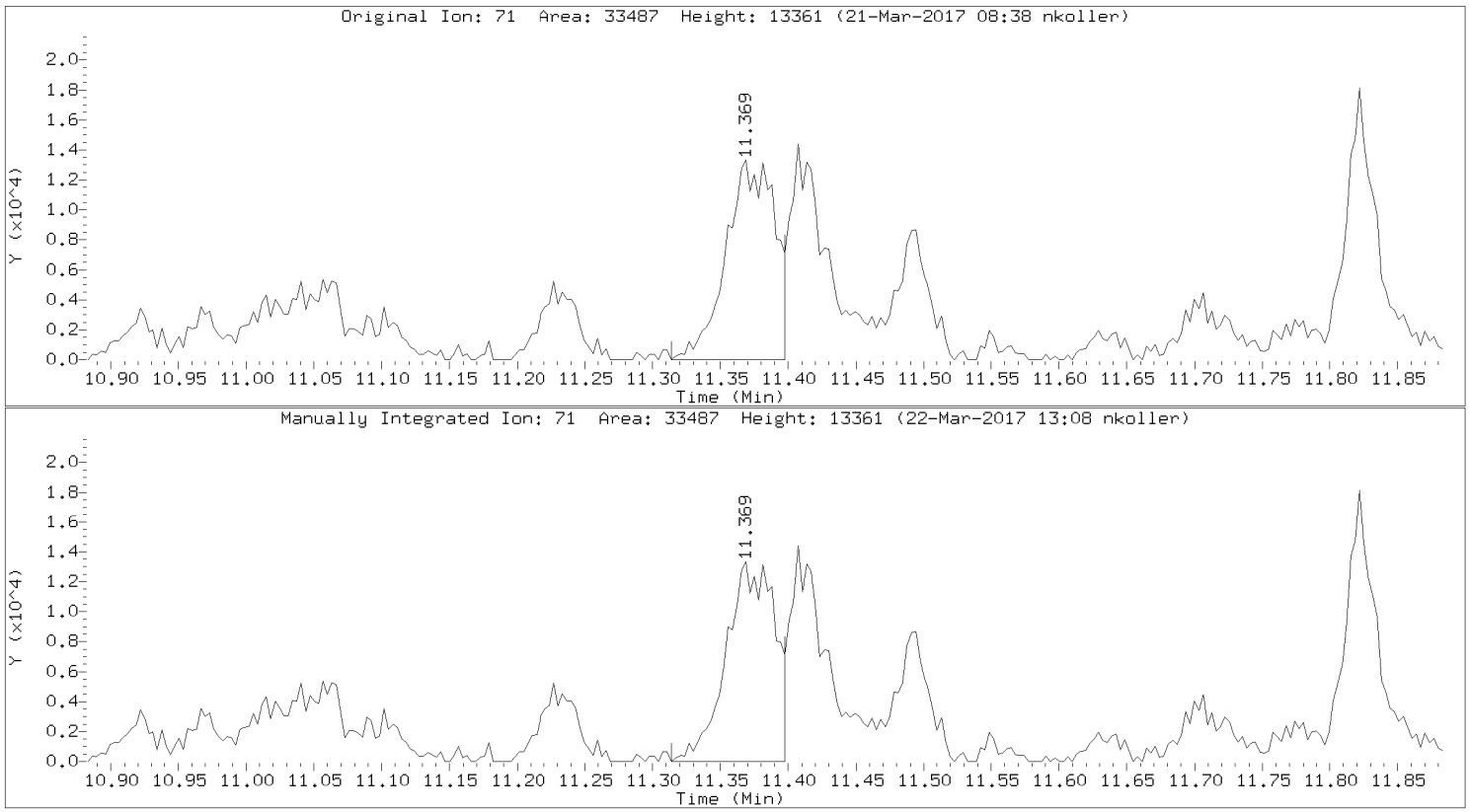








Data File: \\192.168.10.12\chem\10airB.i\032017.b/07935.D
Injection Date: 21-MAR-2017 03:21
Instrument: 10airB.i
Lab Sample ID: 10381035002



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\032017thc.b\07935.D
Lab Smp Id: 10381035002
Inj Date : 21-MAR-2017 03:21
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27953
Comment :
Method : \\192.168.10.12\chem\10airB.i\032017thc.b\THC_075-17.m
Meth Date : 21-Mar-2017 10:02 nkoller Quant Type: ESTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 35
Dil Factor: 1.68000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * CpndVariable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			129134629	86.2787	144.9

Data File: \\192.168.10.12\chem\10airB.i\032017thc.b\07935.D

Date : 21-MAR-2017 03:21

Client ID:

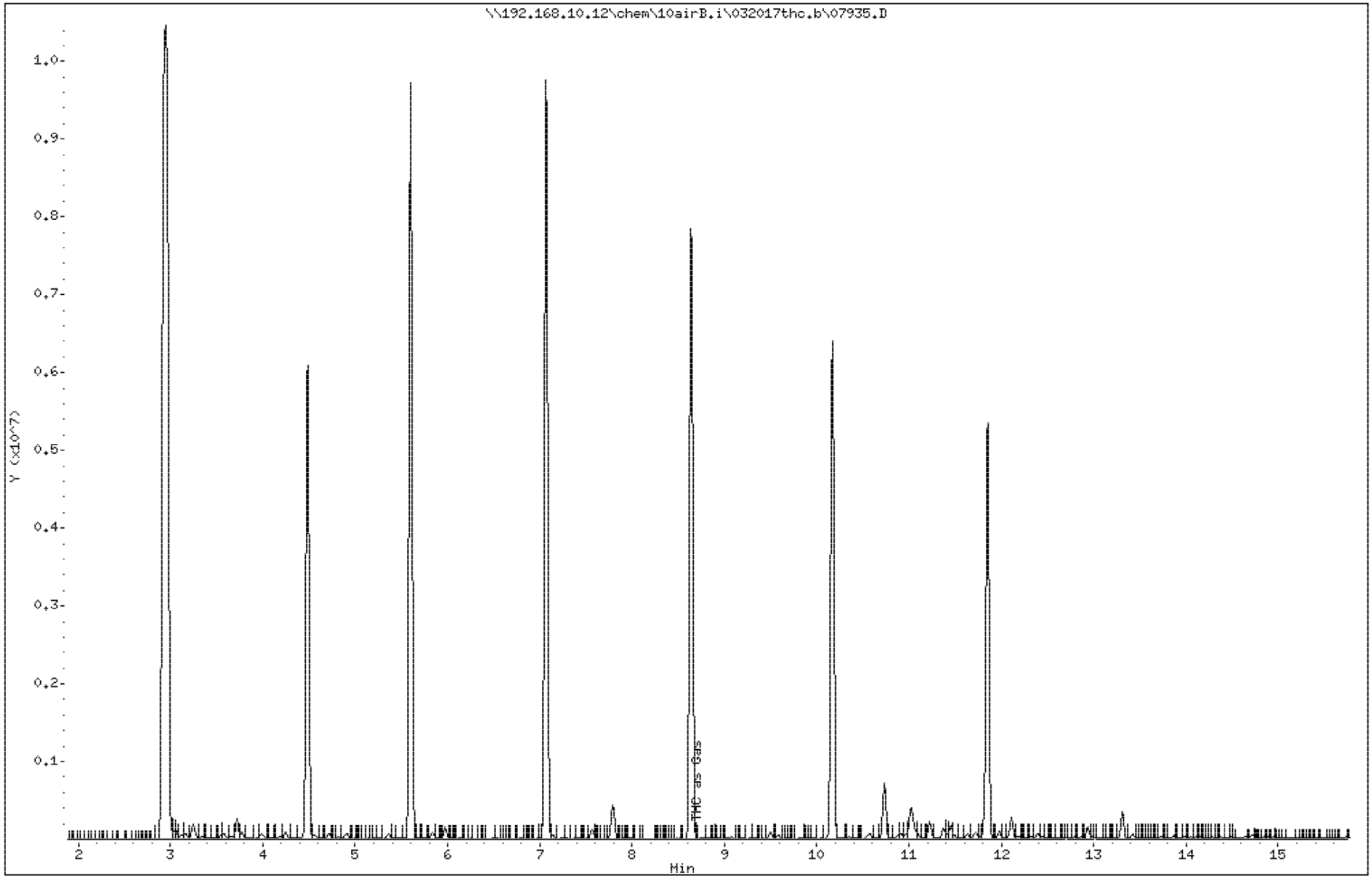
Sample Info:

Column phase: DB-624

Instrument: 10airB.i

Operator: NCK

Column diameter: 0.32



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_20_20170302 **Lab ID: 10381035003** Collected: 03/02/17 12:25 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**82.5**	ug/m3	4.1	1.4	1.68		03/21/17 14:40	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 14:40	107-05-1	
Benzene	**1.2**	ug/m3	0.55	0.20	1.68		03/21/17 14:40	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 14:40	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 14:40	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 14:40	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 14:40	106-99-0	
2-Butanone (MEK)	**8.4**	ug/m3	5.0	0.38	1.68		03/21/17 14:40	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/21/17 14:40	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 14:40	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 14:40	108-90-7	
Chlorodifluoromethane	**4.4**	ug/m3	1.2	0.46	1.68		03/21/17 14:40	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 14:40	75-00-3	
Chloroform	**0.51J**	ug/m3	0.83	0.32	1.68		03/21/17 14:40	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 14:40	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 14:40	76-15-3	
Cyclohexane	**0.99J**	ug/m3	1.2	0.53	1.68		03/21/17 14:40	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 14:40	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 14:40	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 14:40	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 14:40	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 14:40	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/21/17 14:40	106-46-7	
Dichlorodifluoromethane	**1.3J**	ug/m3	4.2	0.81	1.68		03/21/17 14:40	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 14:40	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 14:40	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/21/17 14:40	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 14:40	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/21/17 14:40	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 14:40	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 14:40	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 14:40	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 14:40	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 14:40	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 14:40	123-91-1	
Ethylbenzene	**0.81J**	ug/m3	1.5	0.71	1.68		03/21/17 14:40	100-41-4	
4-Ethyltoluene	**1.8**	ug/m3	1.7	0.32	1.68		03/21/17 14:40	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 14:40	87-68-3	
n-Hexane	**62.8**	ug/m3	1.2	0.60	1.68		03/21/17 14:40	110-54-3	
n-Hexane	**11.8**	ug/m3	1.6	0.80	2.25		03/23/17 02:43	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 14:40	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 14:40	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 14:40	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 14:40	108-87-2	
Methylene Chloride	**114**	ug/m3	7.9	1.2	2.25		03/23/17 02:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 14:40	108-10-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D
Report Date: 23-Mar-2017 15:38

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08013.D
Lab Smp Id: 10381035003
Inj Date : 21-MAR-2017 14:40
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 13
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.028	3.034	(0.540)	13061	0.72576	1.22(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.070	(0.546)	68461	0.15442	0.259	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.545	3.545	(0.633)	530921	23.1530	38.9	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.587	3.603	(0.640)	61018	0.74522	1.25	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.661	3.677	(0.653)	36099	0.29125	0.489	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.719	3.722	(0.664)	2012671	20.3293	34.2	
19	Isopropyl Alcohol	45	3.767	3.764	(0.672)	424414	4.01479	6.74	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.938	3.951	(0.703)	6229	0.06596	0.111	
23	Methyl Acetate	43	3.957	3.957	(0.706)	15961	0.10654	0.179(Q)	
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D
Report Date: 23-Mar-2017 15:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	4.005	4.005	(0.715)	7309456	89.8052	151	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.487	4.491	(0.801)	1984916	9.45475	9.45	
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.814)	37980	1.66355	2.79(Q)	
	34 n-Hexane	57	4.587	4.587	(0.819)	1096265	10.4377	17.5(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 Ethyl Acetate	43	4.716	4.716	(0.842)	72883	0.49325	0.829(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.825	4.841	(0.861)	6823	0.06111	0.103	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.458	5.465	(0.974)	37459	0.21231	0.357	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.484	5.487	(0.979)	17956	0.16875	0.284(QM)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	6125177	10.0000		
	48 2,2,4-Trimethylpentane	57	5.764	5.770	(1.029)	41834	0.12642	0.212	
	49 Heptane	43	5.883	5.889	(1.050)	19921	0.16018	0.269	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.976	5.986	(1.067)	234084	2.83788	4.77	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5384431	9.54614	9.55	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.143	7.153	(1.275)	267031	1.30332	2.19	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.581	(0.876)	30819	0.21399	0.360(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	30649	0.34482	0.579	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	3918441	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.934	(1.034)	24625	0.10859	0.182	
	70 m&p-Xylene	91	9.076	9.082	(1.051)	75498	0.51611	0.867	
	71 n-Nonane	43	9.465	9.468	(1.096)	169714	1.40594	2.36	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.500	9.507	(1.100)	8221	0.18178	0.305	
	74 o-Xylene	91	9.574	9.577	(1.108)	27361	0.15694	0.264	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	10.905	10.915	(1.262)	16452	0.21748	0.365(M)	

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D
Report Date: 23-Mar-2017 15:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	10.995	10.998	(1.273)	9826	0.18249	0.307	
80	n-Decane	57	11.381	11.381	(2.031)	20396	0.16621	0.279	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.506	11.510	(1.332)	38143	0.30695	0.516	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	1793658	9.48565	9.49	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	11.982	11.986	(1.387)	67954	0.13780	0.232	
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	11584	0.20345	0.342	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.156	(1.641)	12725	0.52996	0.890	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D
Report Date: 23-Mar-2017 15:38

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08013.D
Lab Smp Id: 10381035003
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

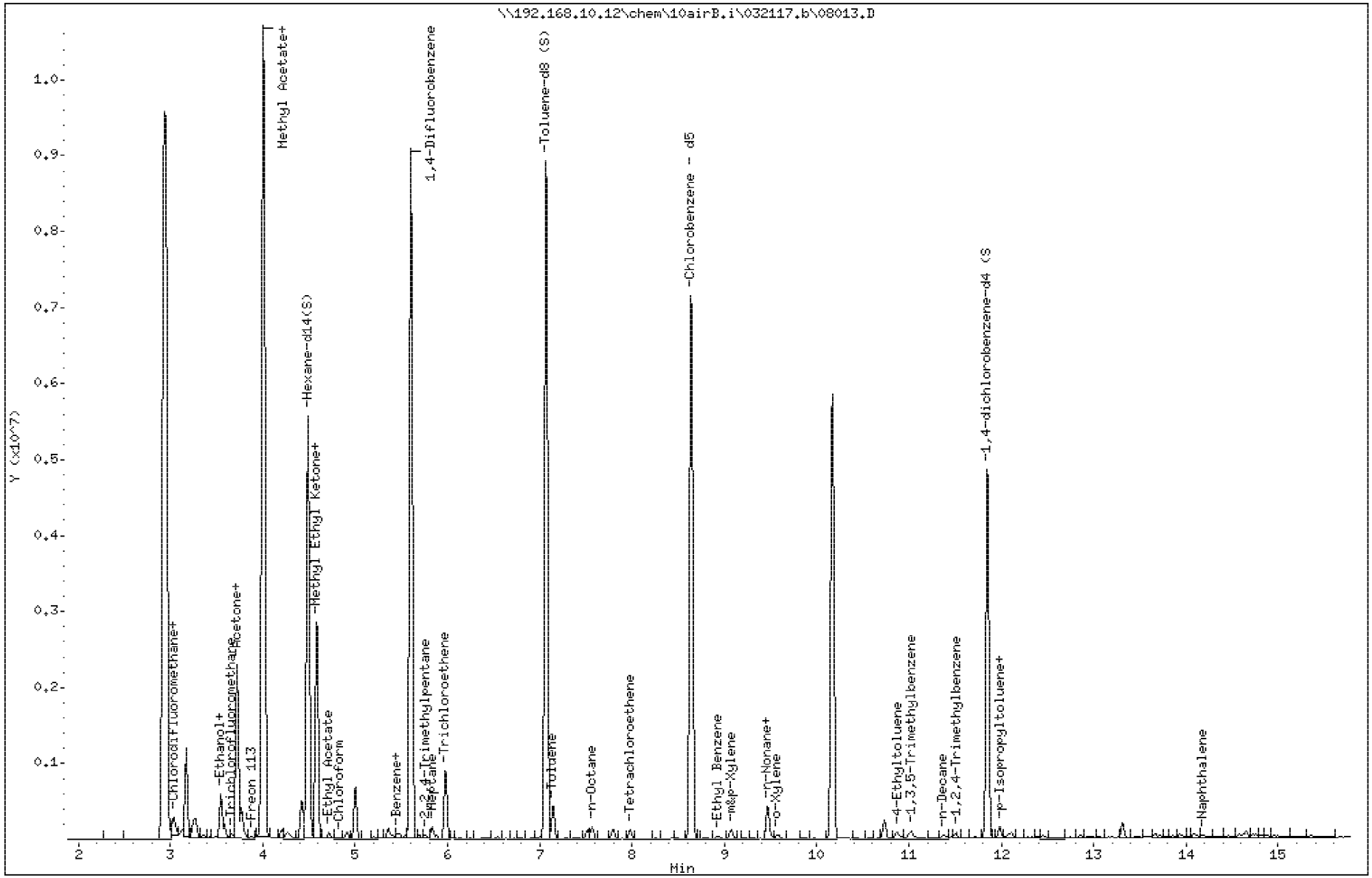
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6125177	-19.84
67 Chlorobenzene - d	5205948	3123569	7288327	3918441	-24.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D
Date : 21-MAR-2017 14:40
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

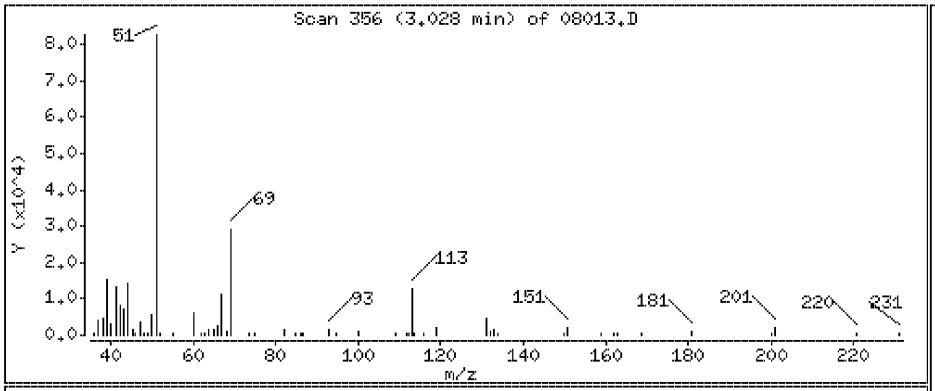
Operator: NCK

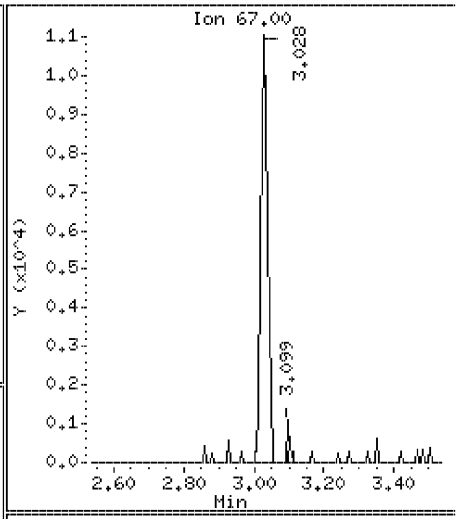
Column phase: J&W DB-5

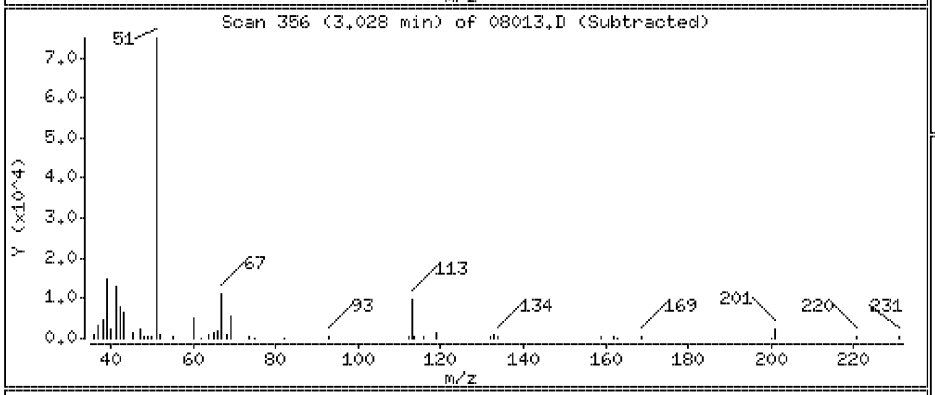
Column diameter: 0.32

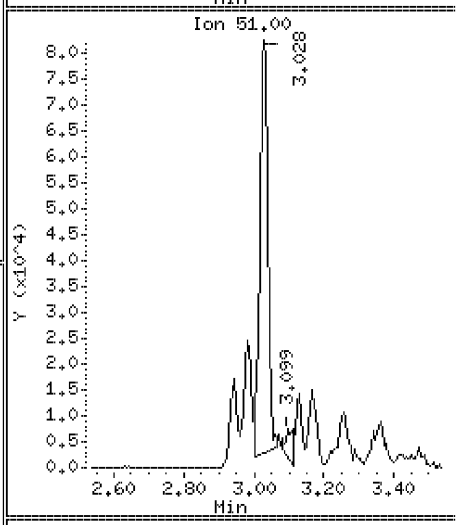
3 Chlorodifluoromethane

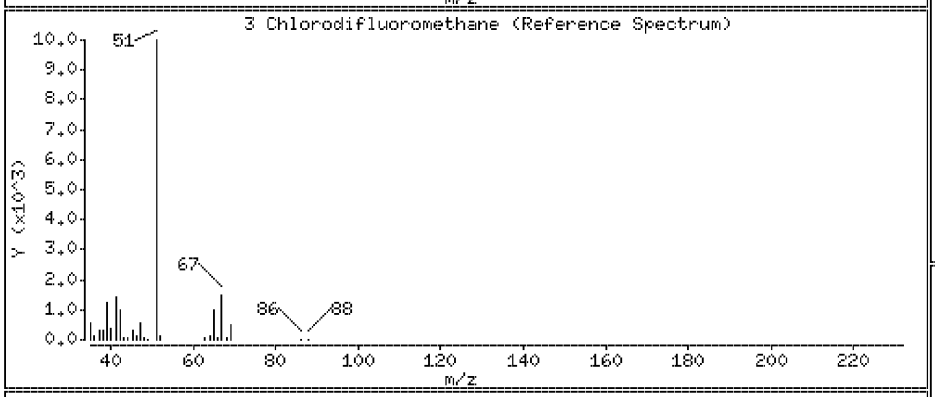
Concentration: 1.22 ppbv

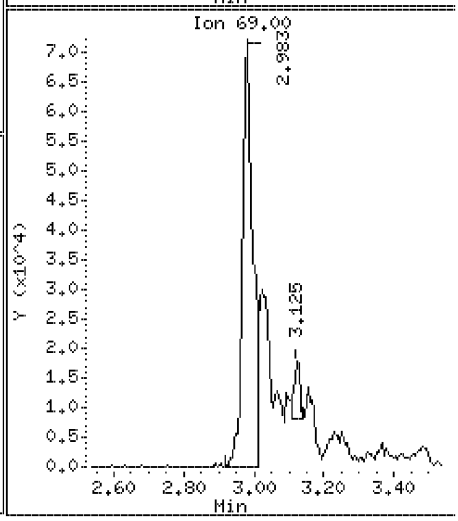


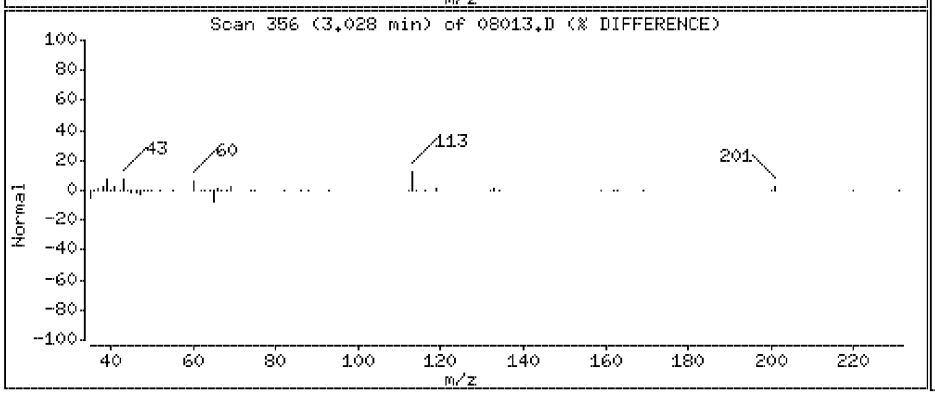












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

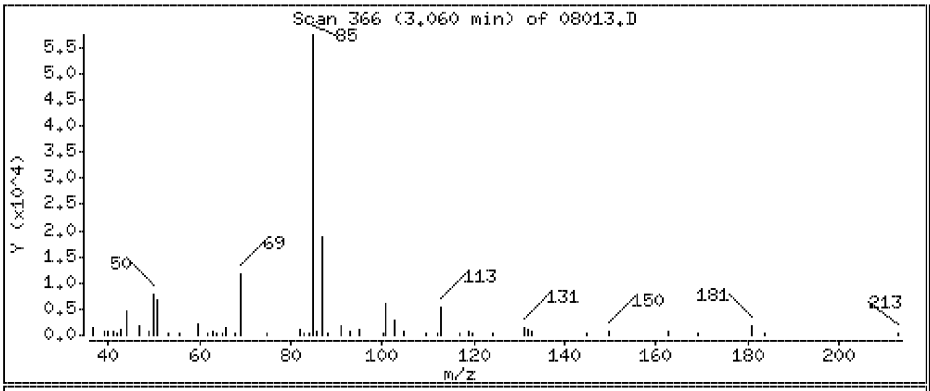
Operator: NCK

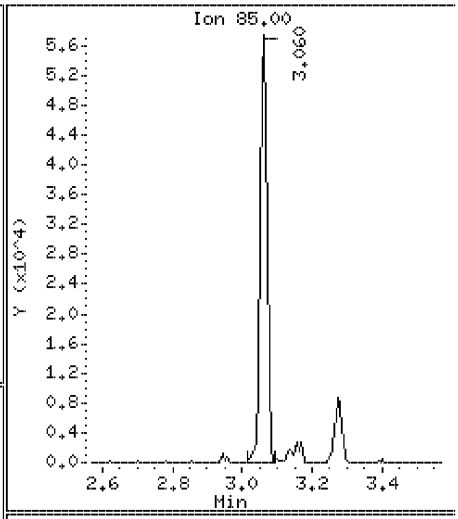
Column phase: J&W DB-5

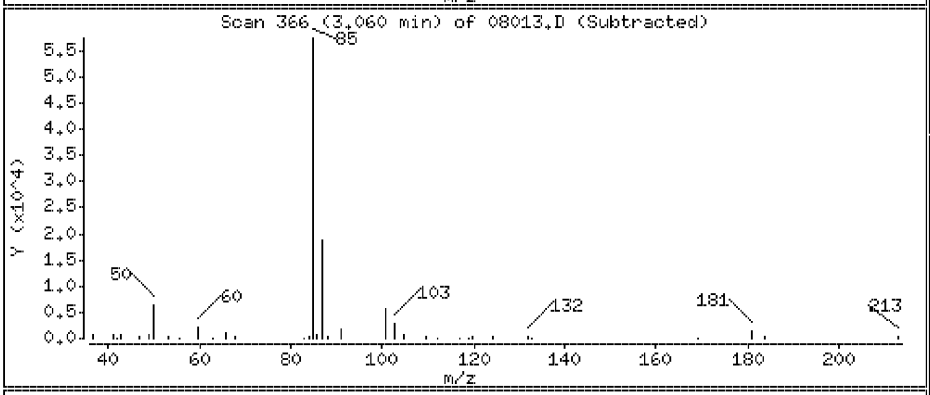
Column diameter: 0.32

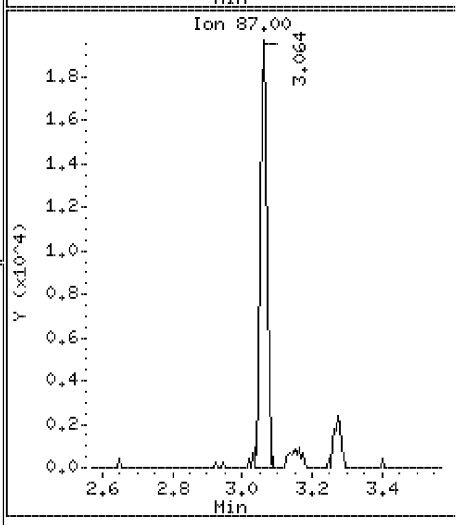
5 Dichlorodifluoromethane

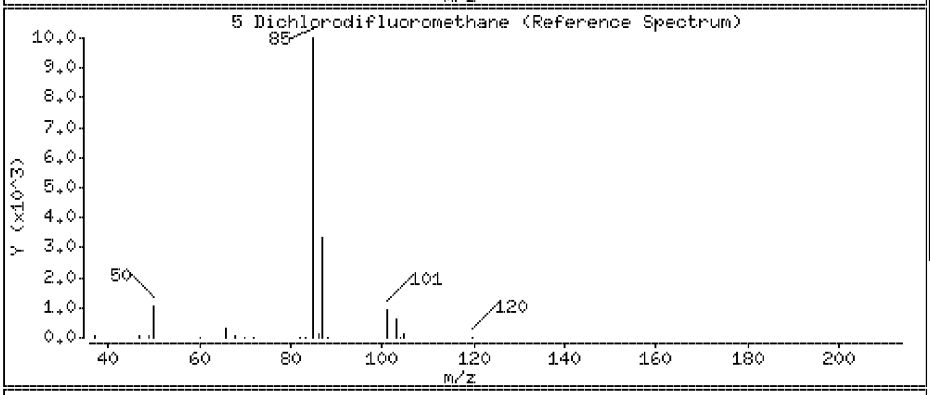
Concentration: 0.259 ppbv

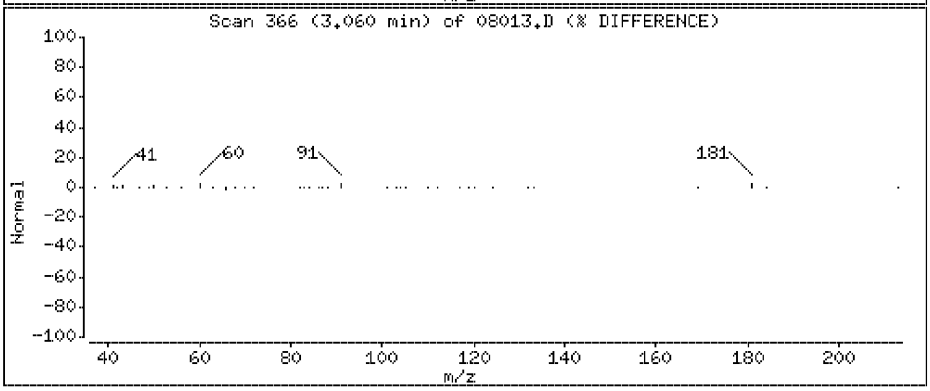












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

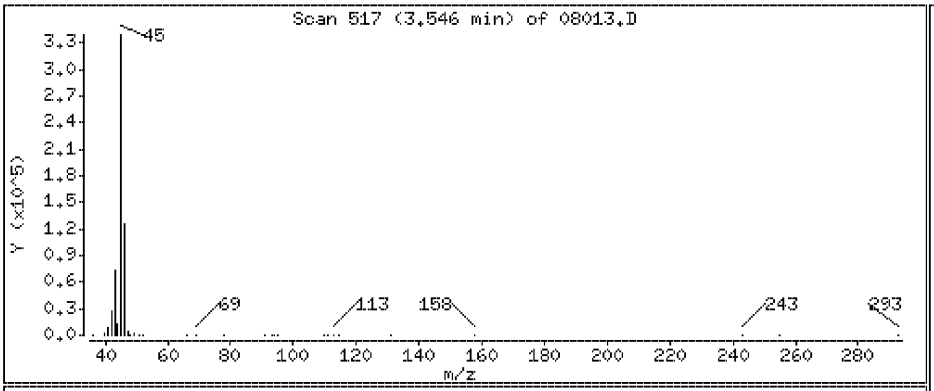
Operator: NCK

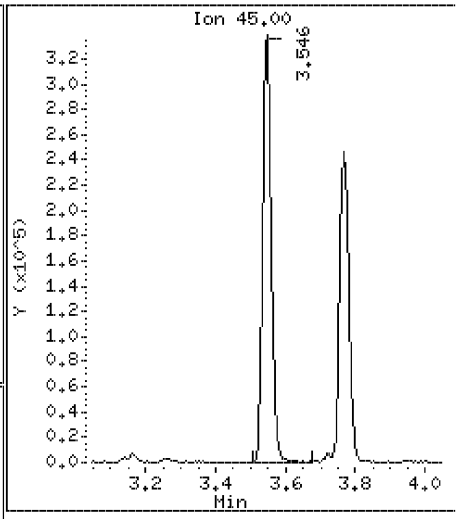
Column phase: J&W DB-5

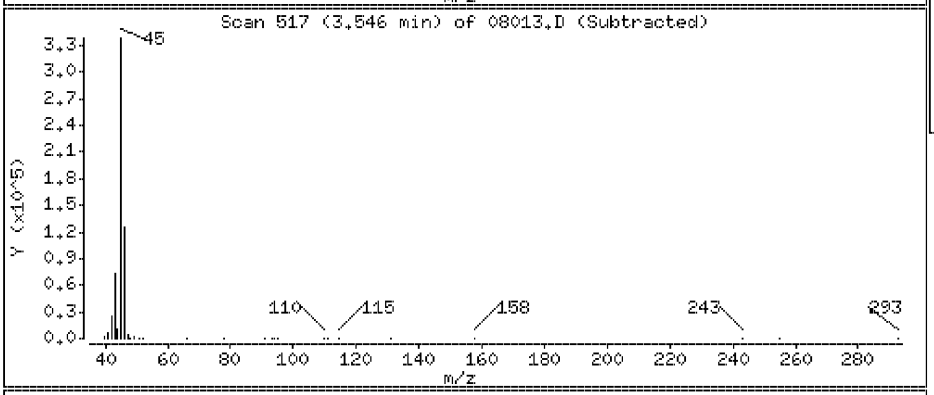
Column diameter: 0.32

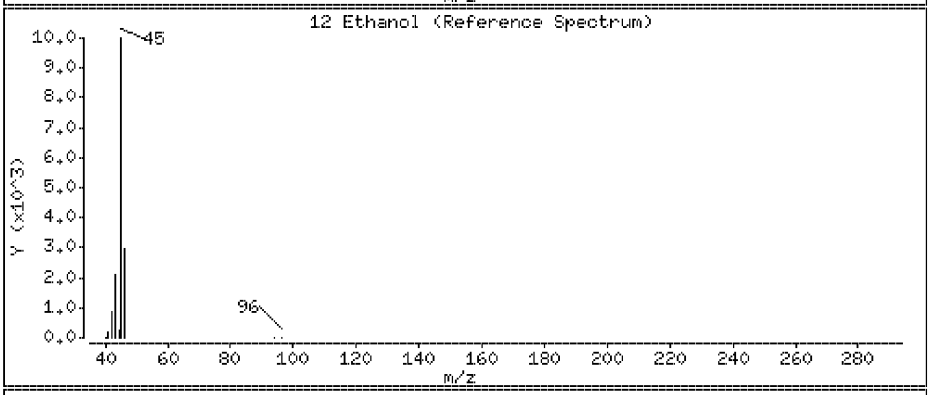
12 Ethanol

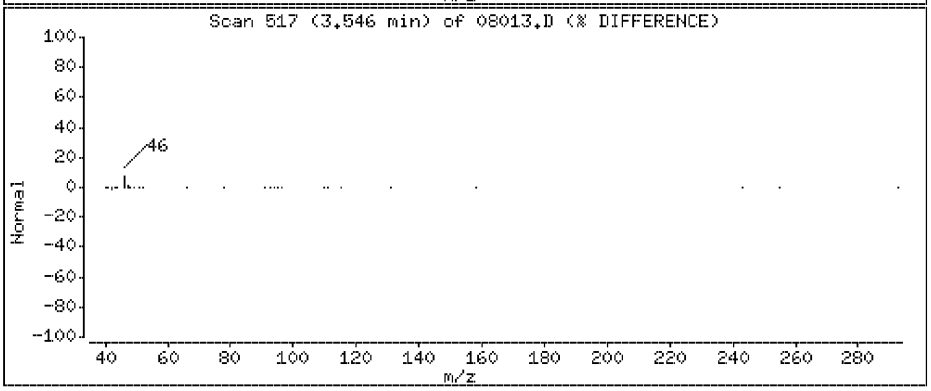
Concentration: 38.9 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

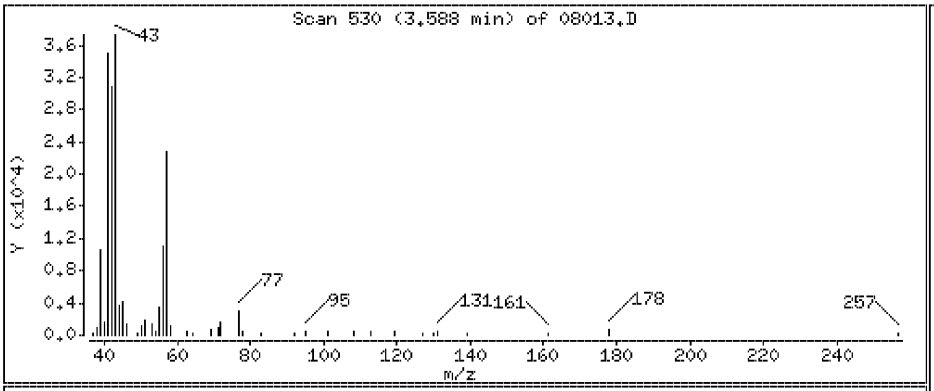
Operator: NCK

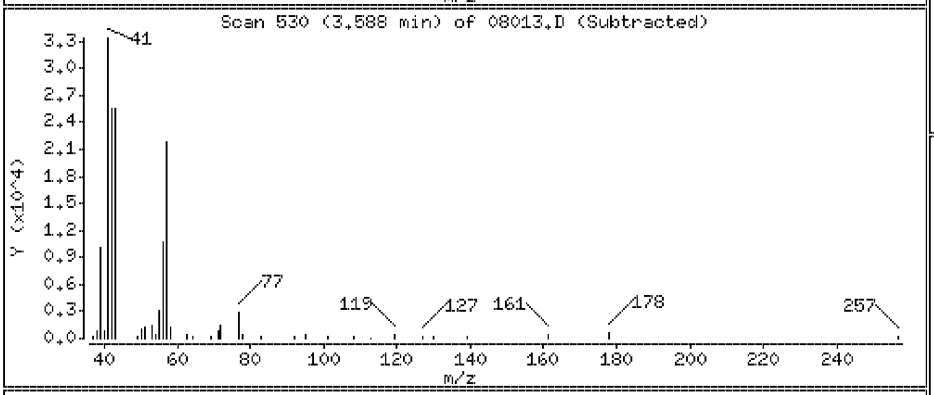
Column phase: J&W DB-5

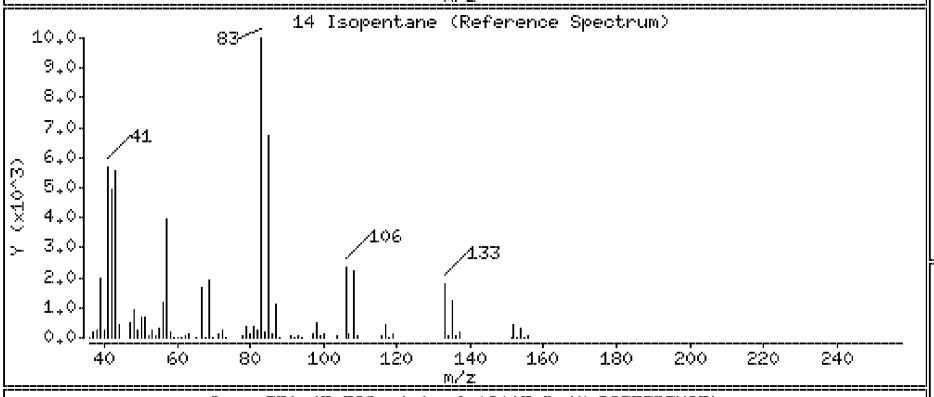
Column diameter: 0.32

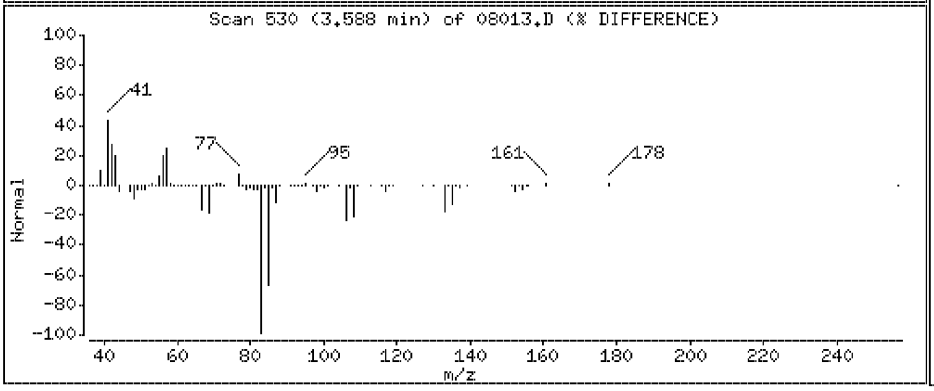
14 Isopentane

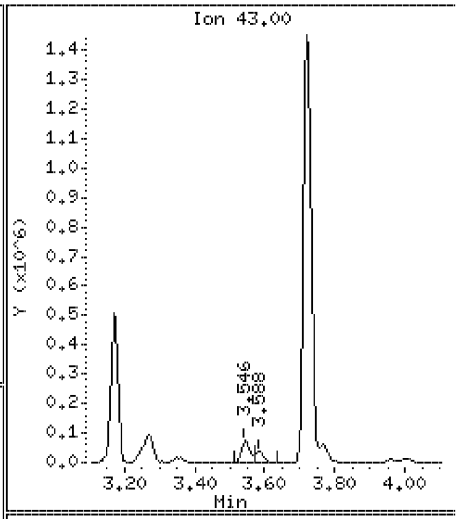
Concentration: 1.25 ppbv

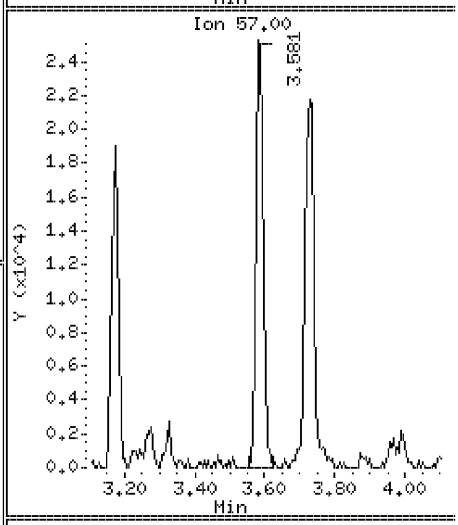


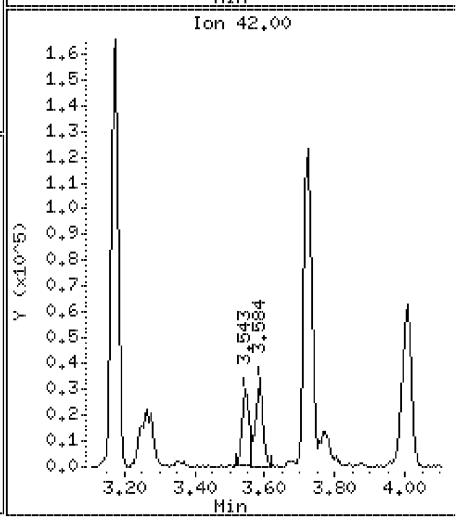












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

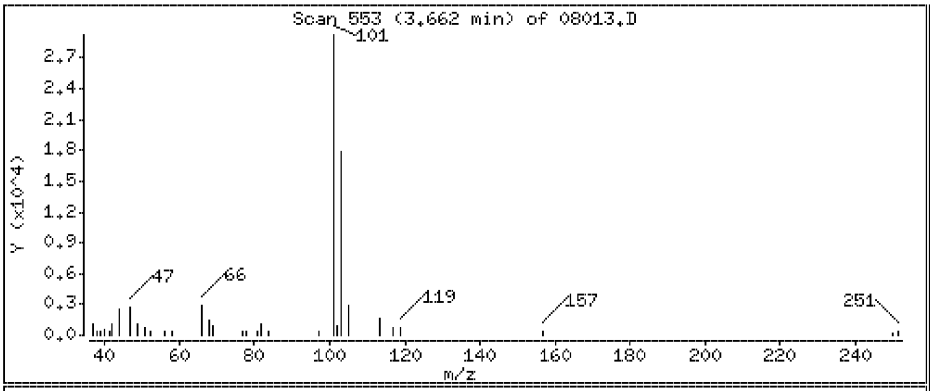
Operator: NCK

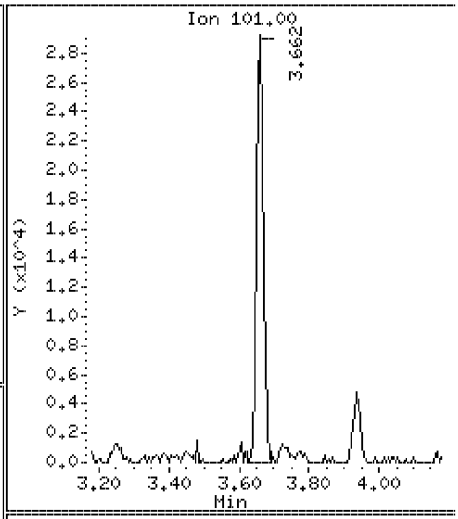
Column phase: J&W DB-5

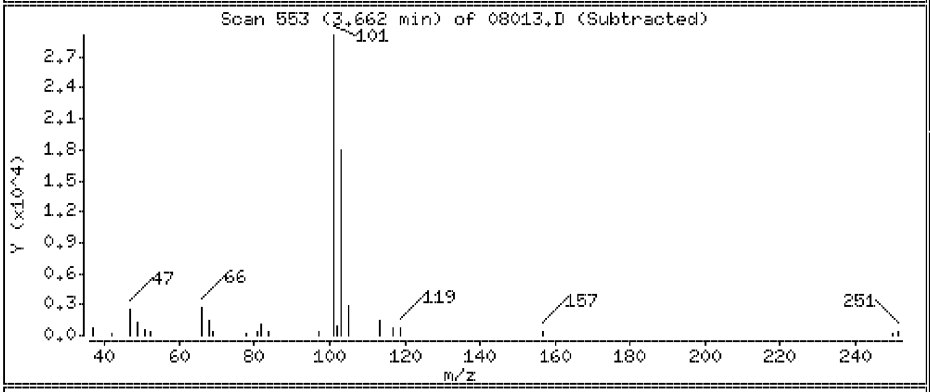
Column diameter: 0.32

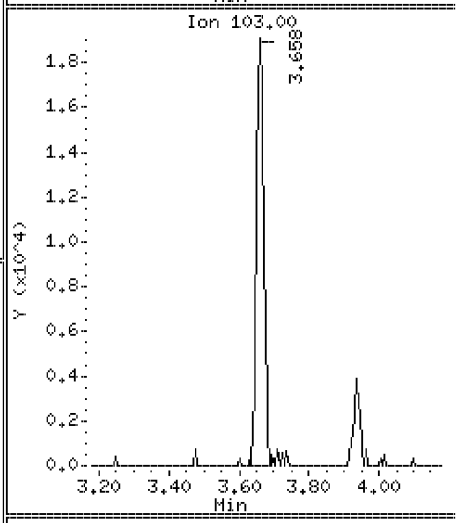
16 Trichlorofluoromethane

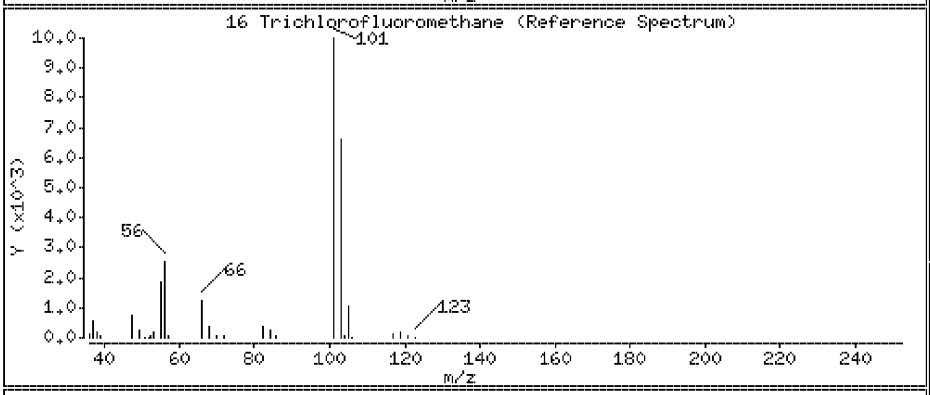
Concentration: 0.489 ppbv

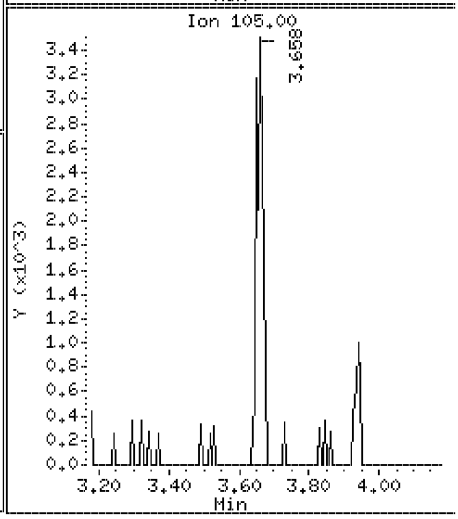


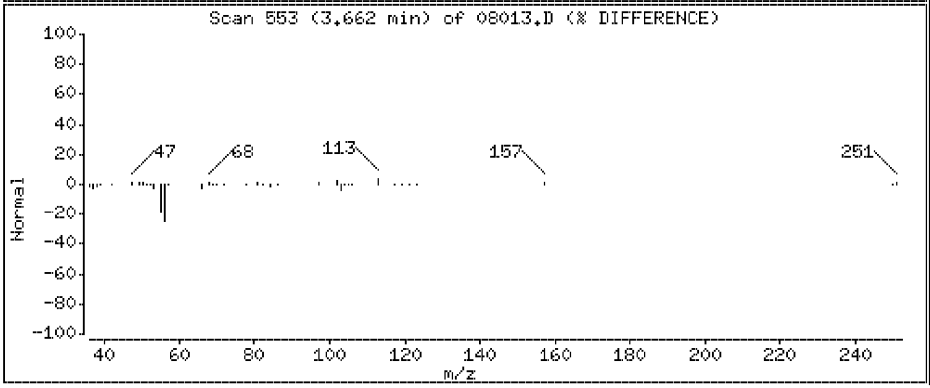












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

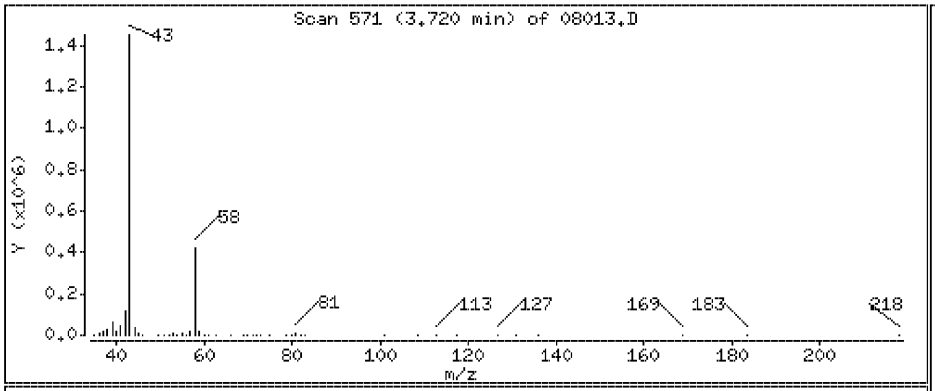
Operator: NCK

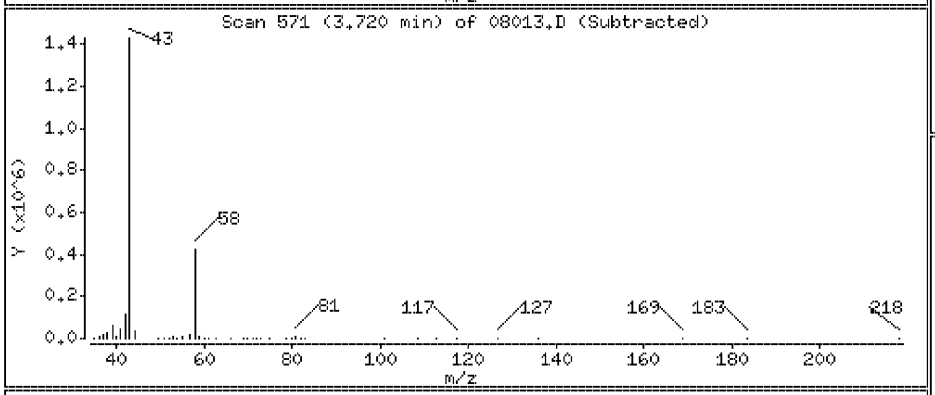
Column phase: J&W DB-5

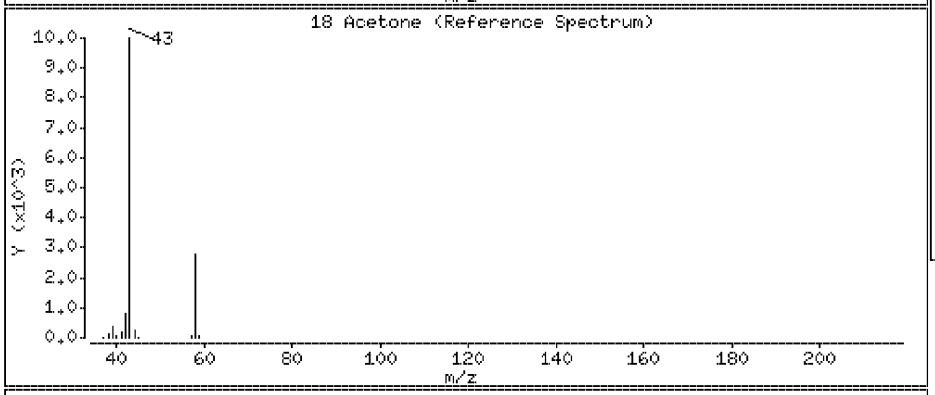
Column diameter: 0.32

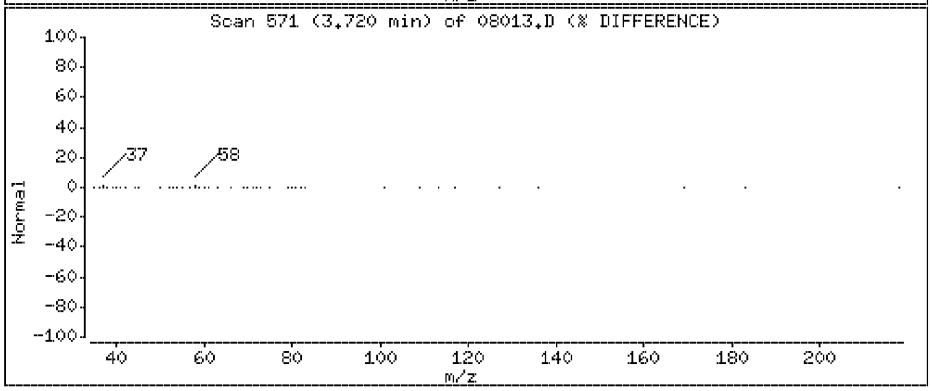
18 Acetone

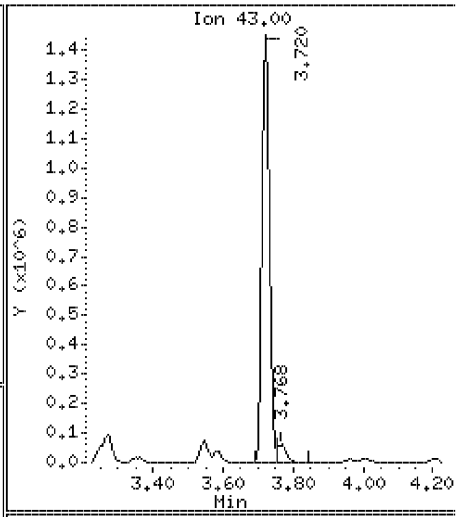
Concentration: 34.2 ppbv

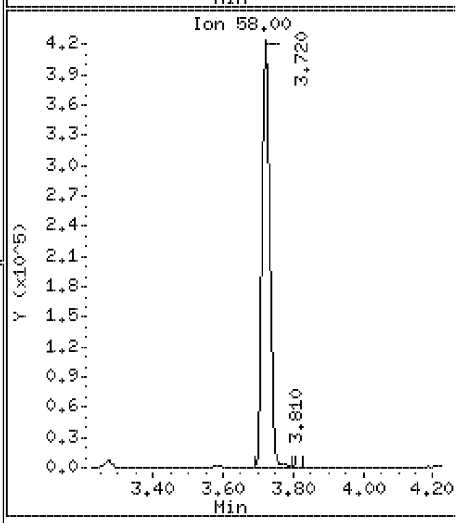












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

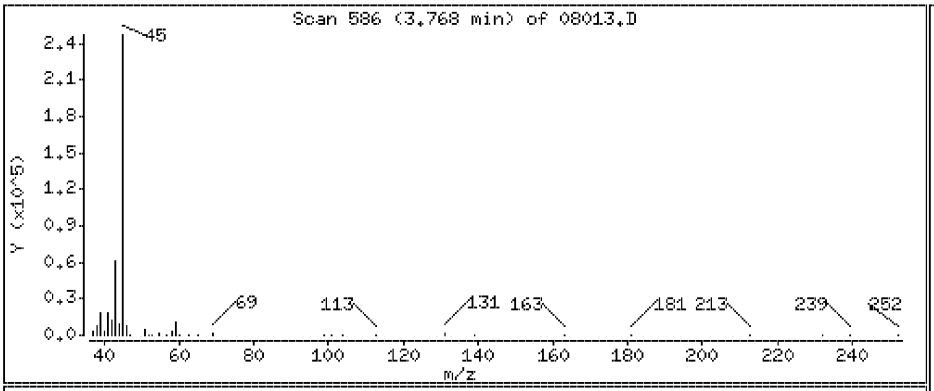
Operator: NCK

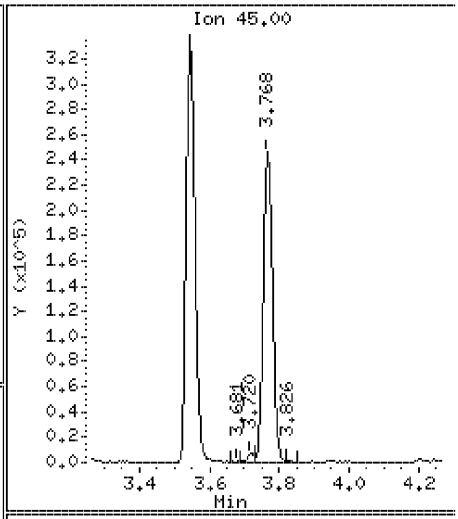
Column phase: J&W DB-5

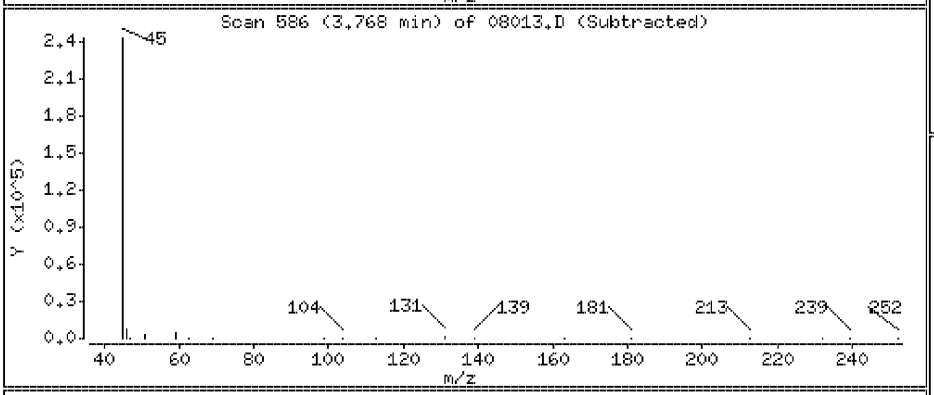
Column diameter: 0.32

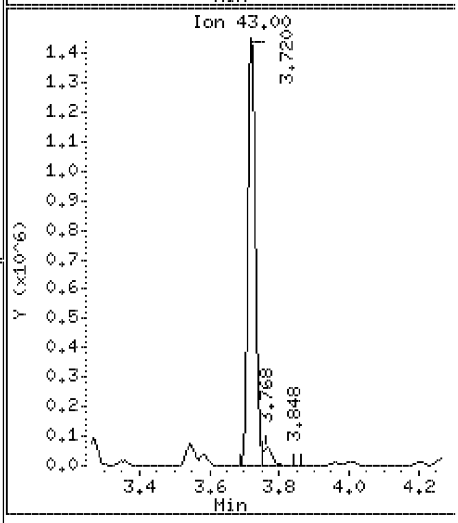
19 Isopropyl Alcohol

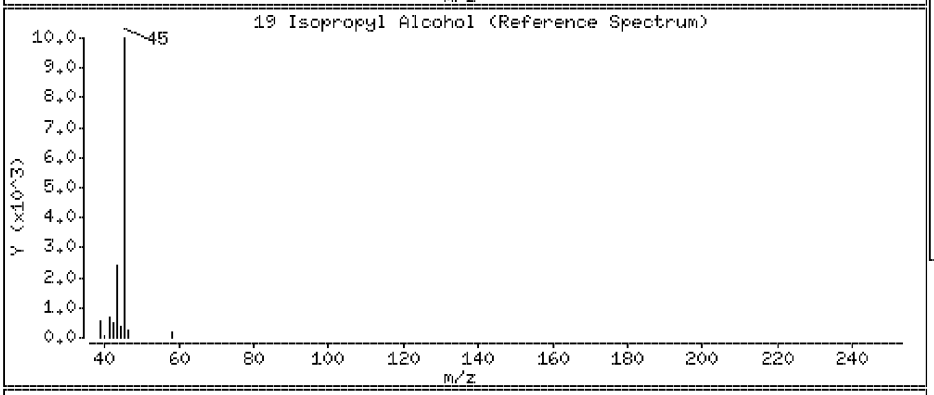
Concentration: 6.74 ppbv

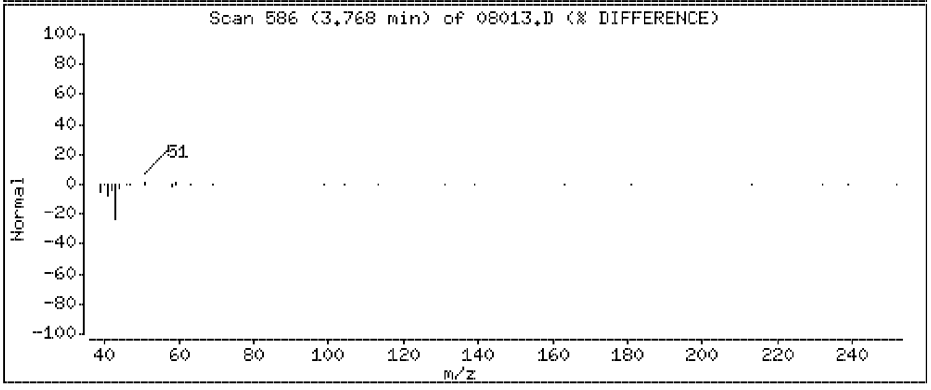












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

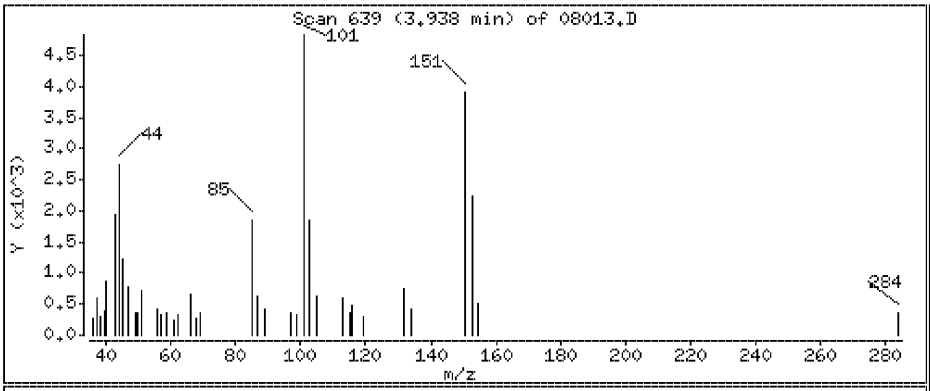
Operator: NCK

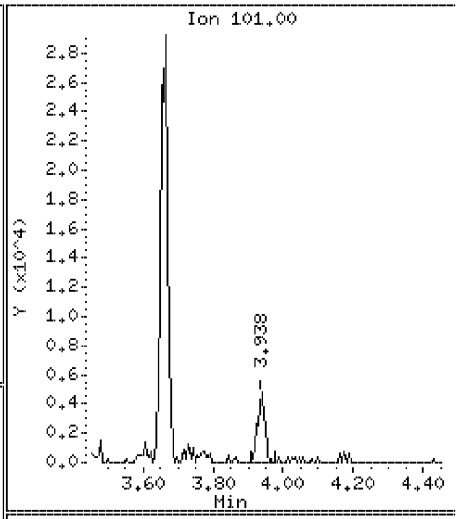
Column phase: J&W DB-5

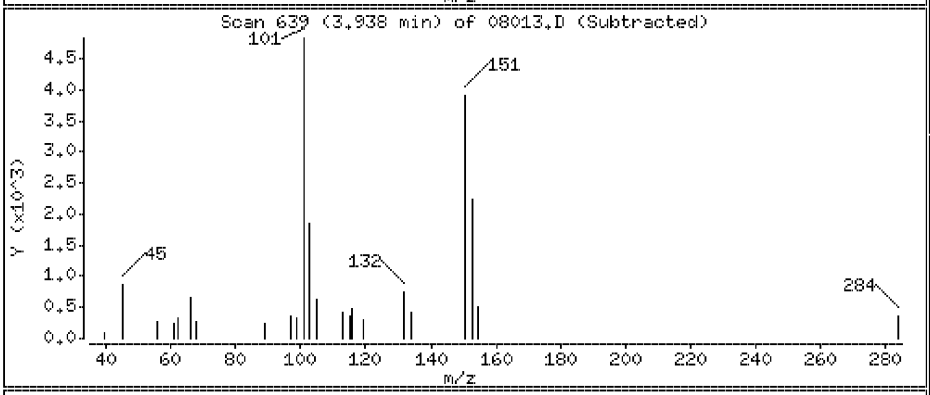
Column diameter: 0.32

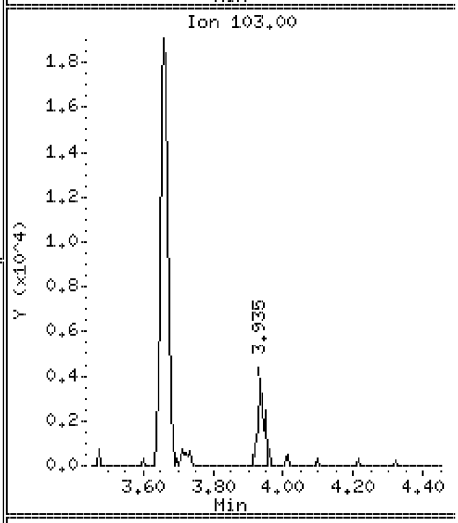
22 Freon 113

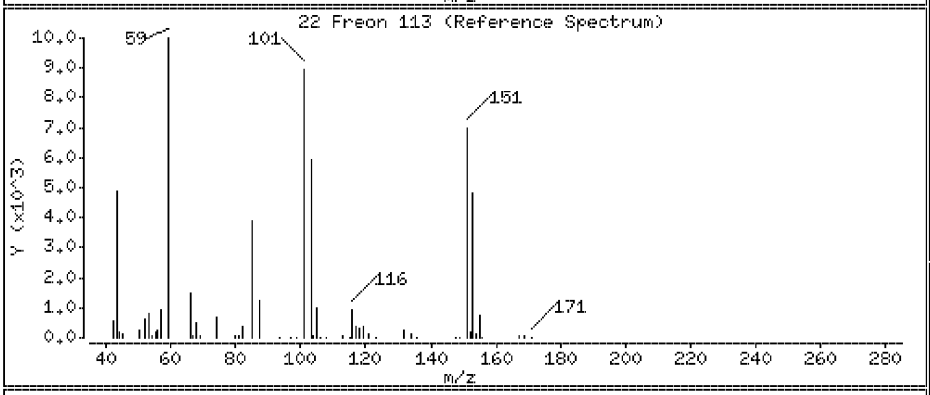
Concentration: 0.111 ppbv

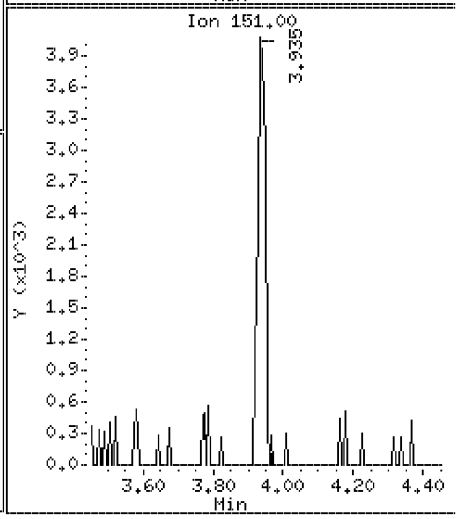


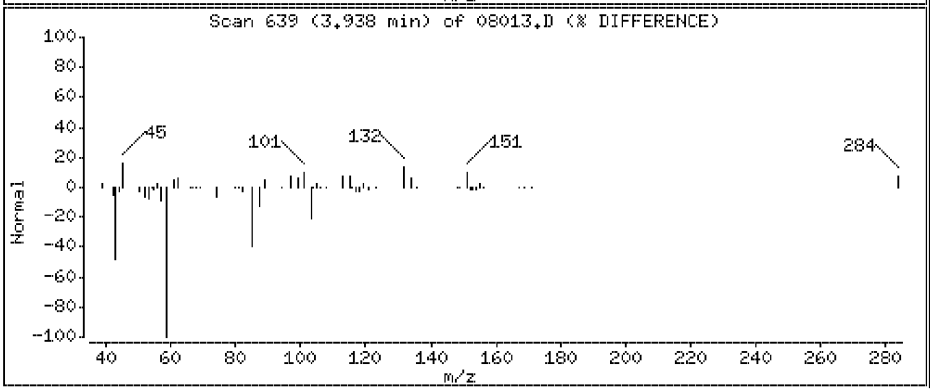












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

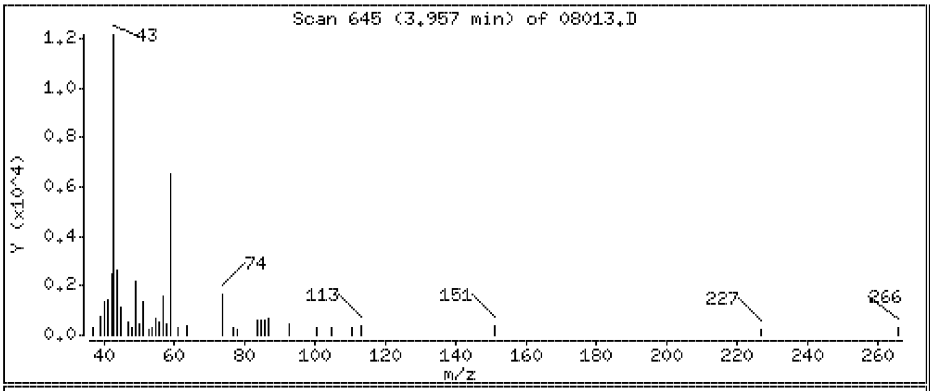
Operator: NCK

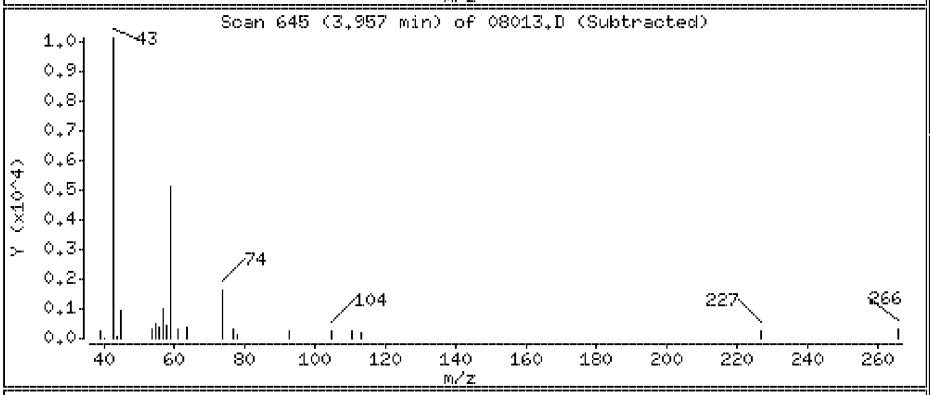
Column phase: J&W DB-5

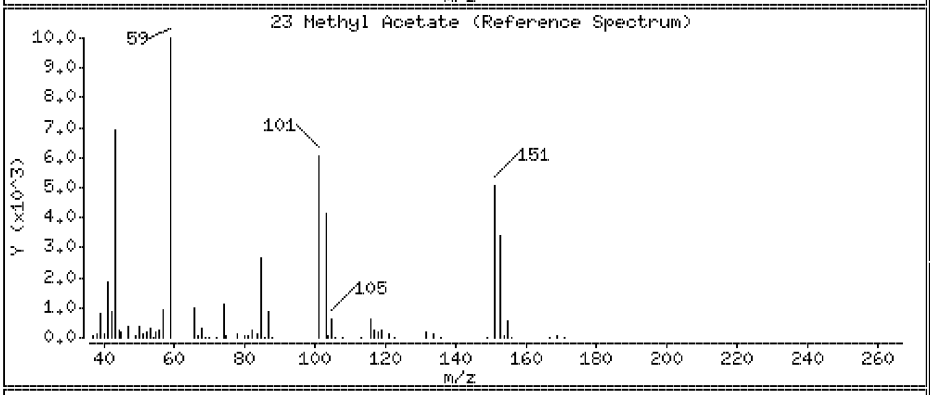
Column diameter: 0.32

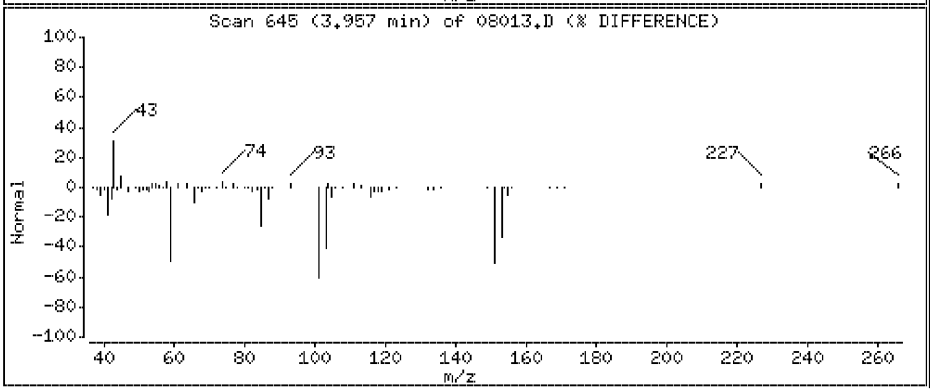
23 Methyl Acetate

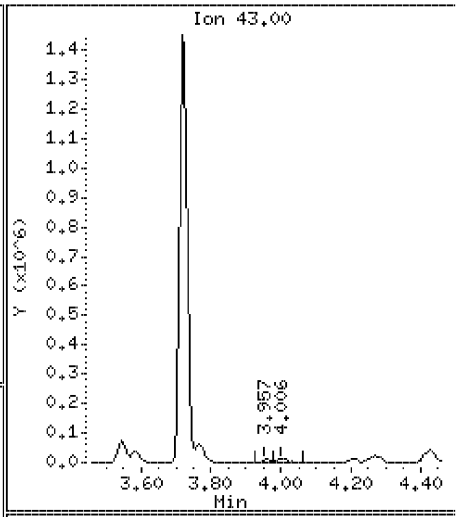
Concentration: 0.179 ppbv

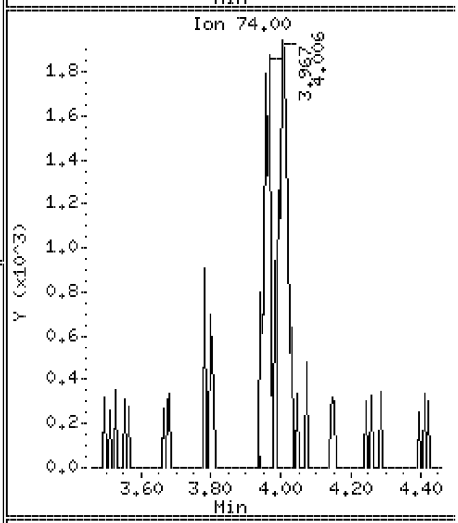


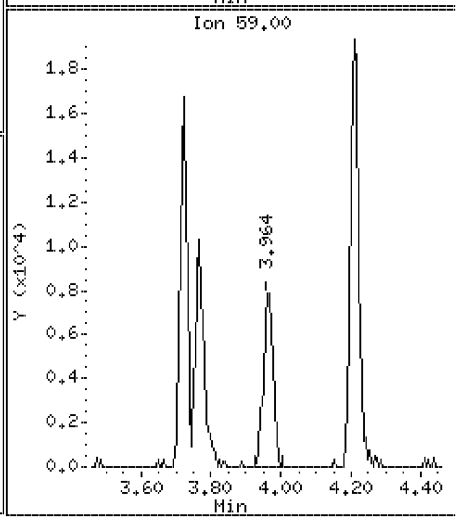












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

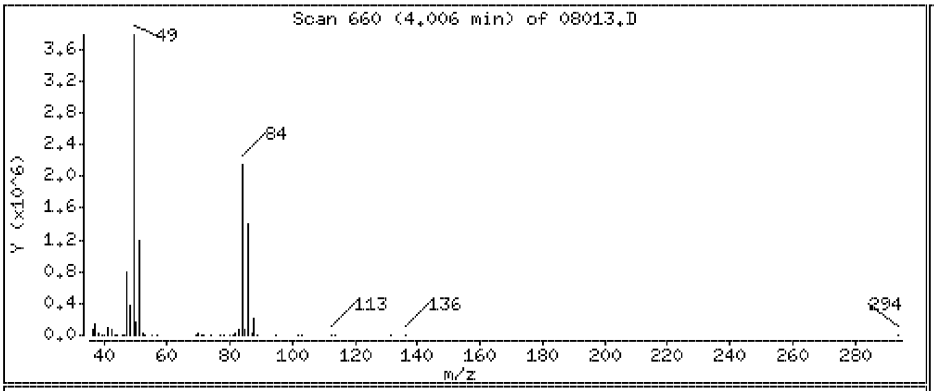
Operator: NCK

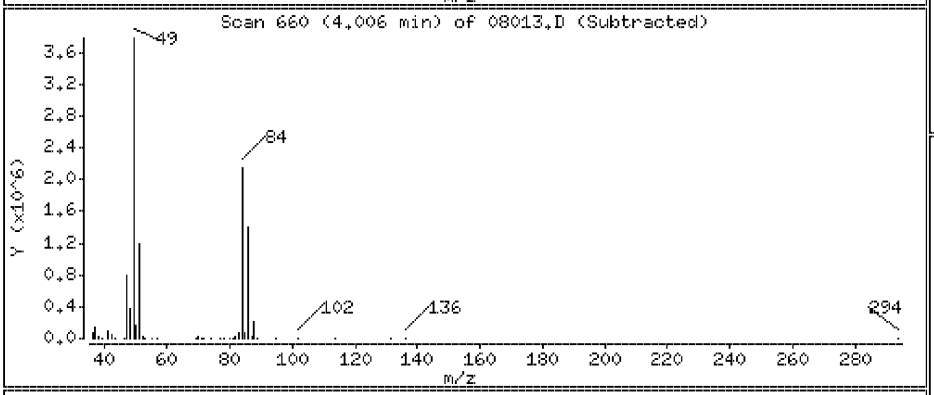
Column phase: J&W DB-5

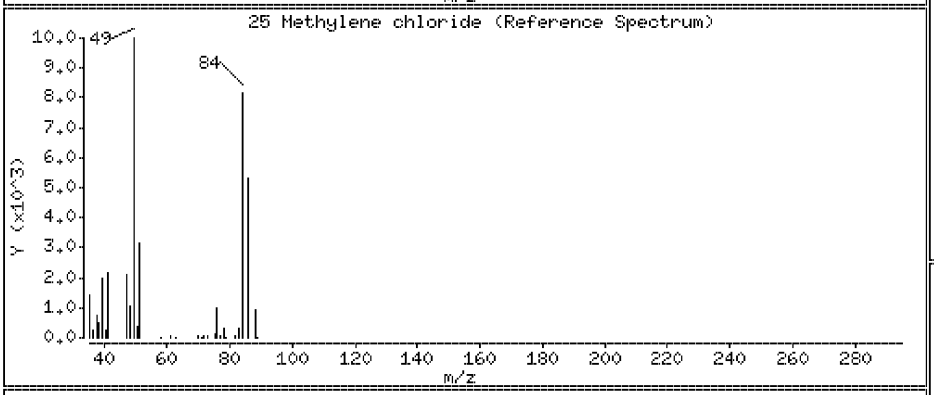
Column diameter: 0.32

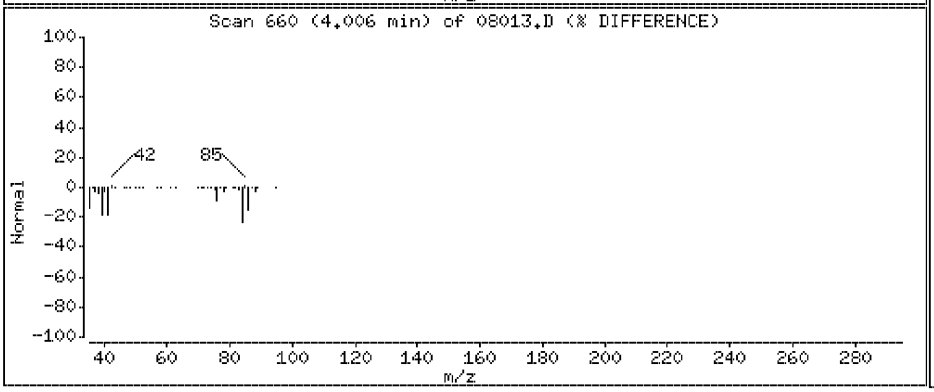
25 Methylene chloride

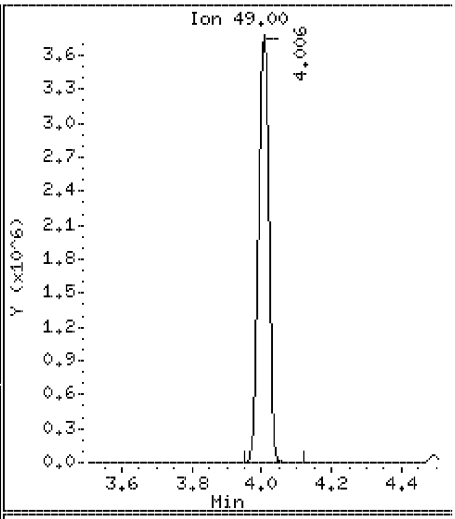
Concentration: 151 ppbv

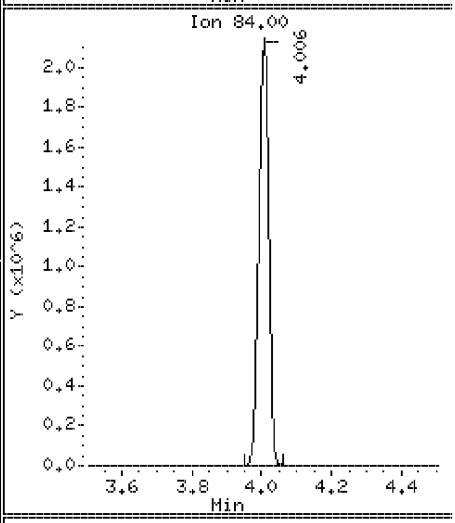


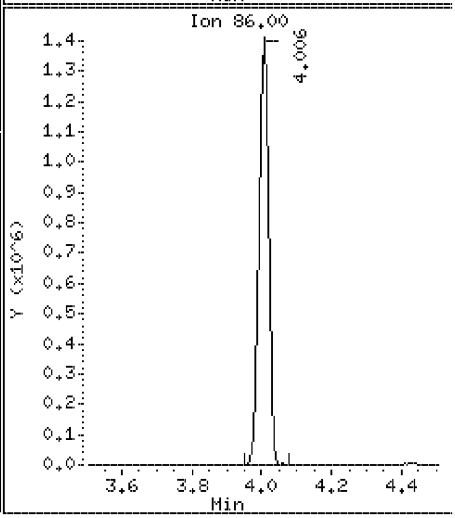












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

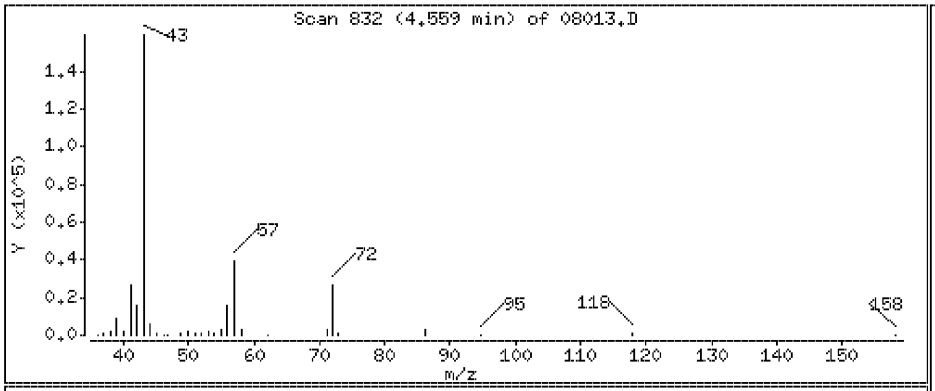
Operator: NCK

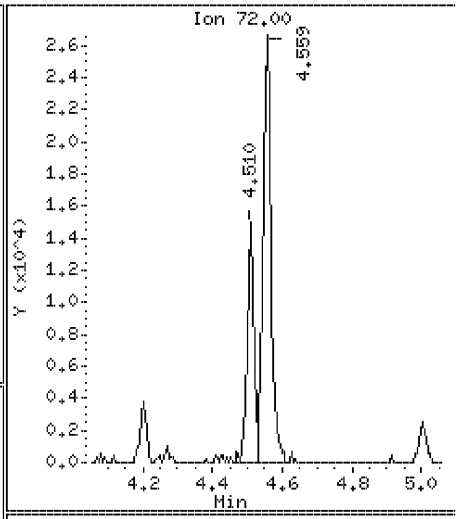
Column phase: J&W DB-5

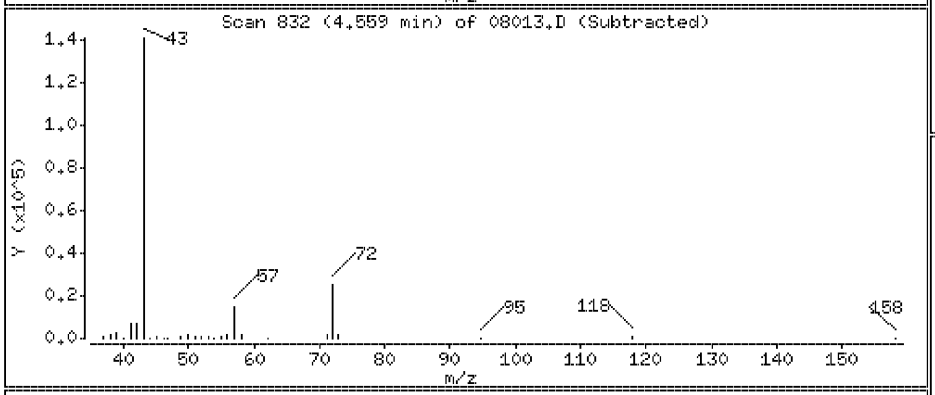
Column diameter: 0.32

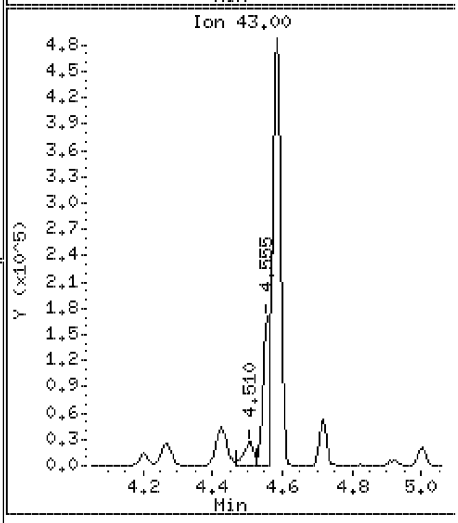
33 Methyl Ethyl Ketone

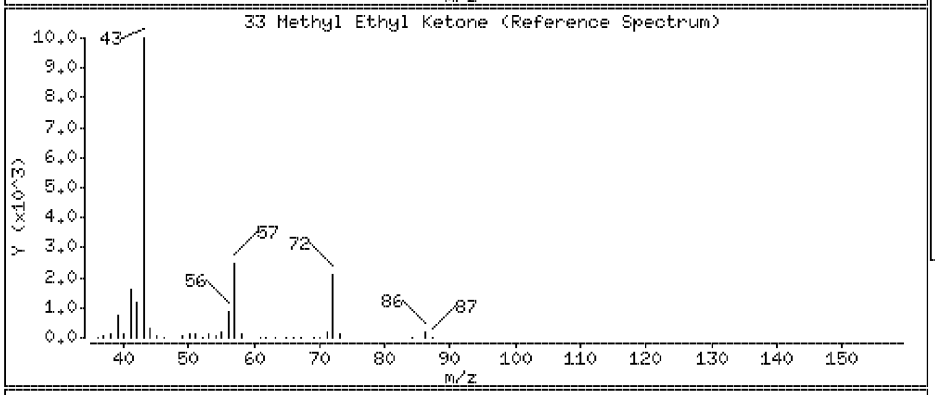
Concentration: 2.79 ppbv

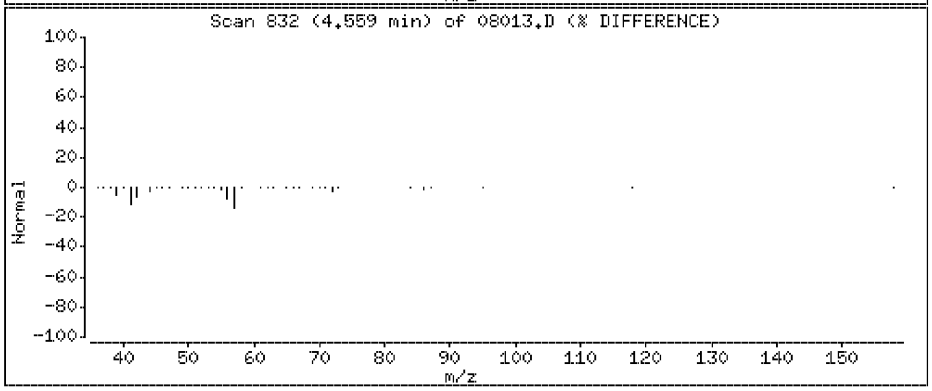












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

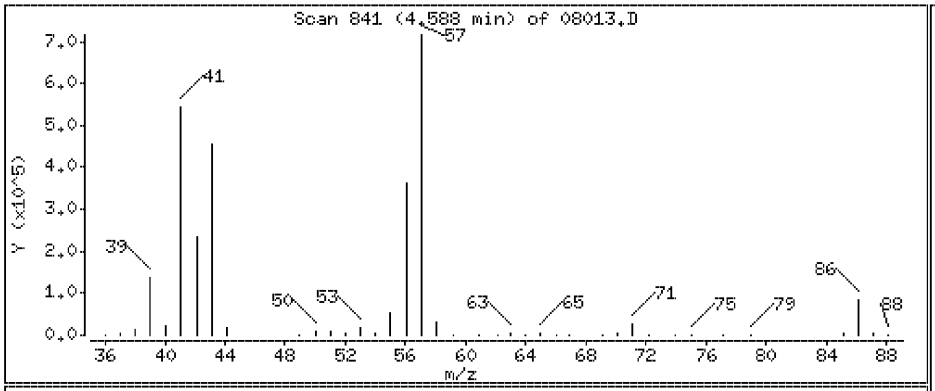
Operator: NCK

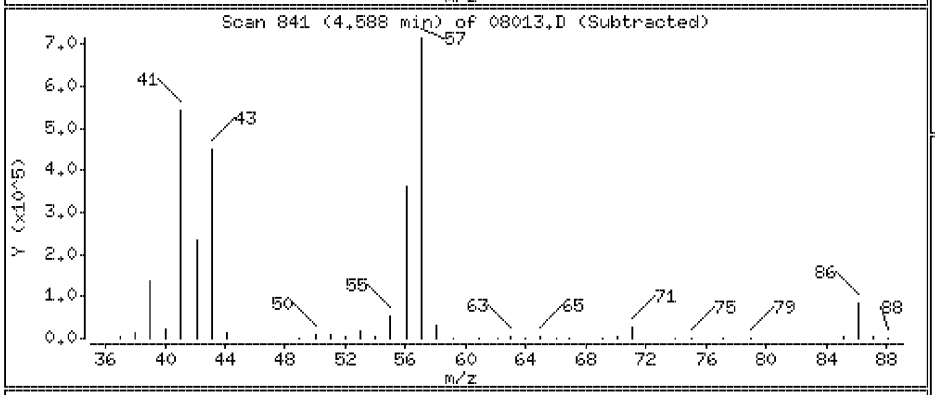
Column phase: J&W DB-5

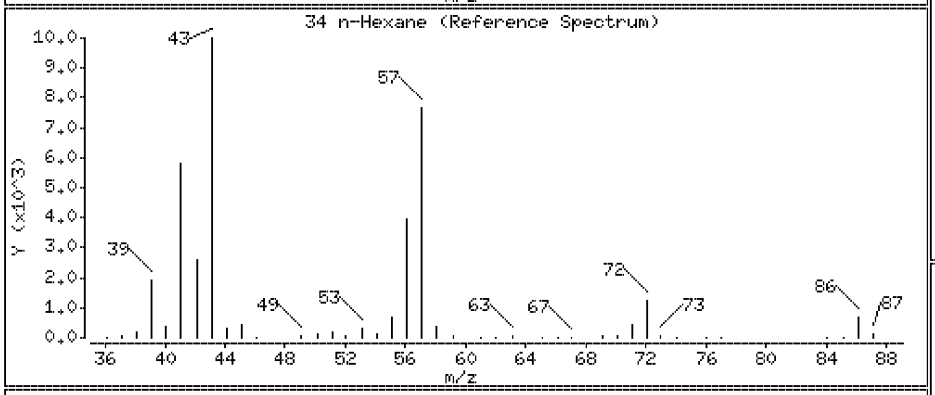
Column diameter: 0.32

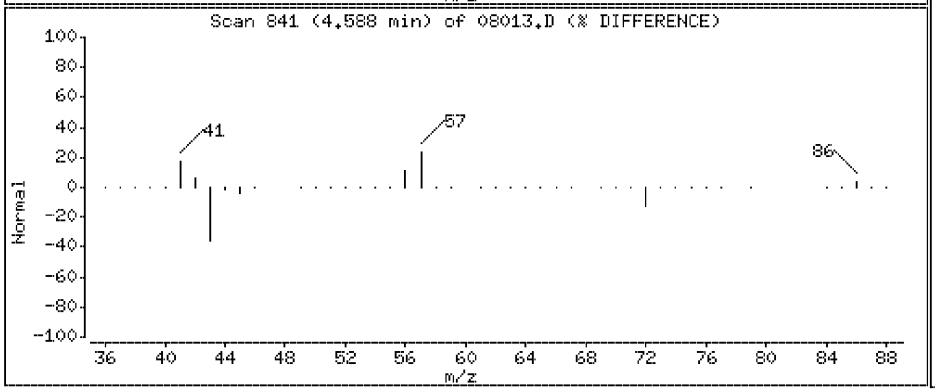
34 n-Hexane

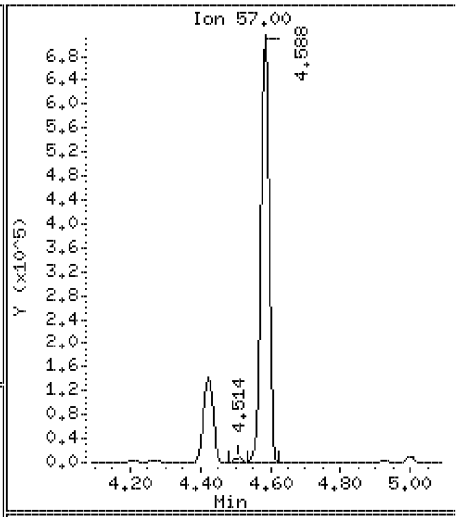
Concentration: 17.5 ppbv

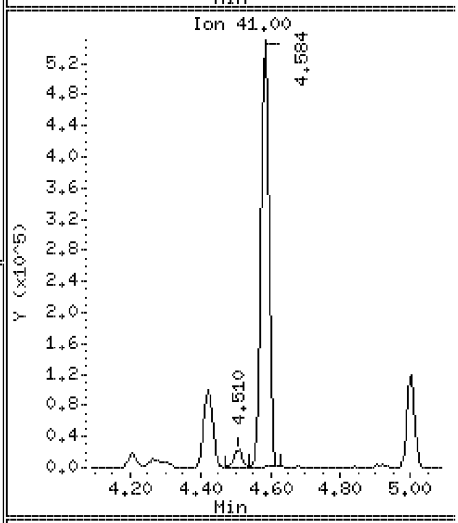


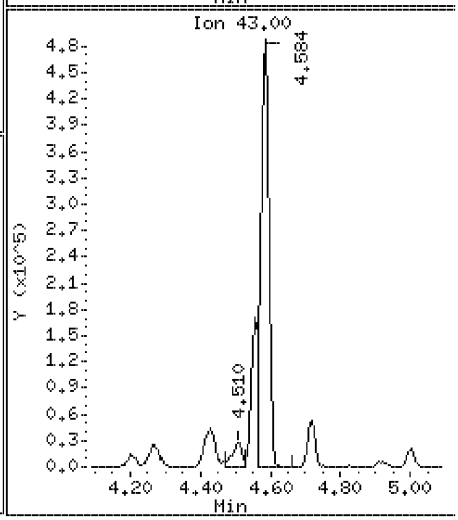












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

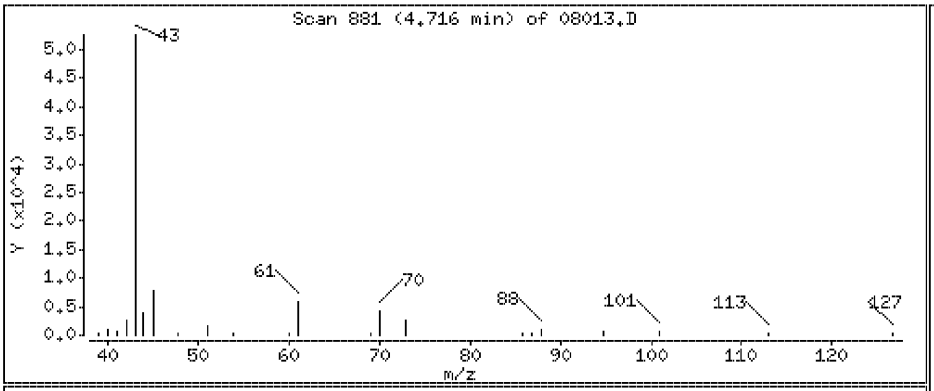
Operator: NCK

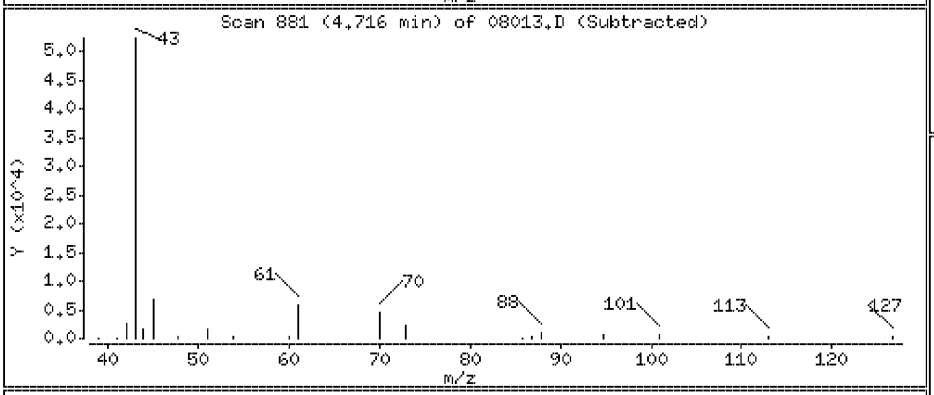
Column phase: J&W DB-5

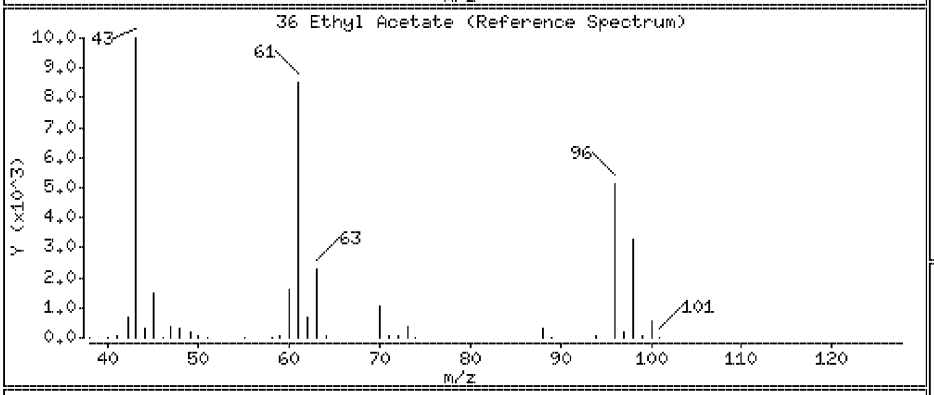
Column diameter: 0.32

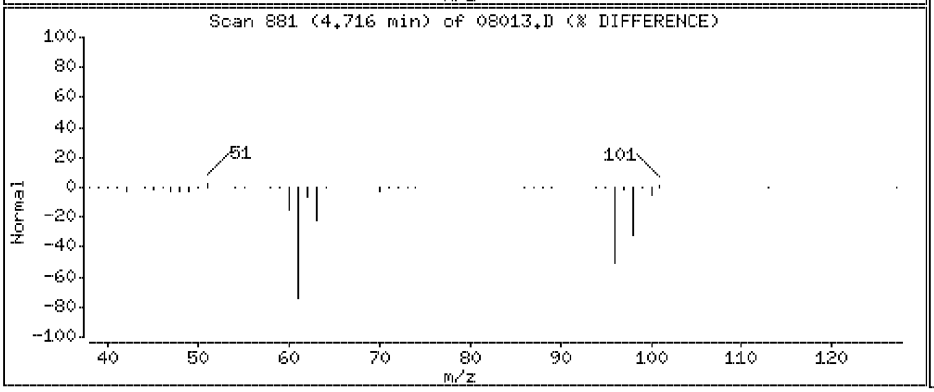
36 Ethyl Acetate

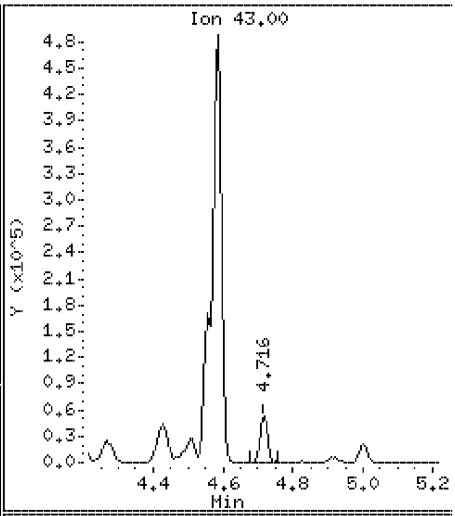
Concentration: 0.829 ppbv

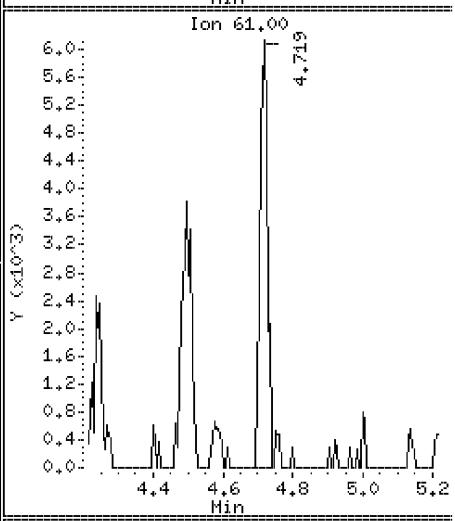


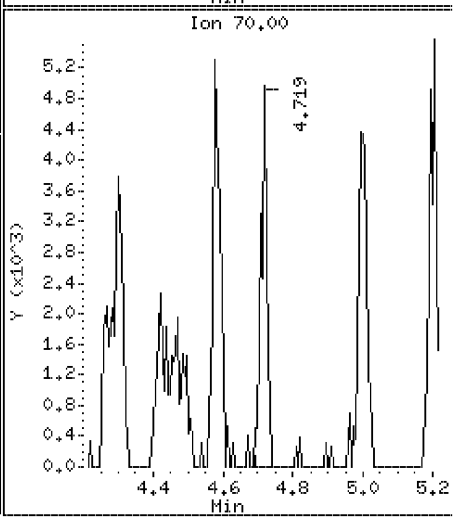












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

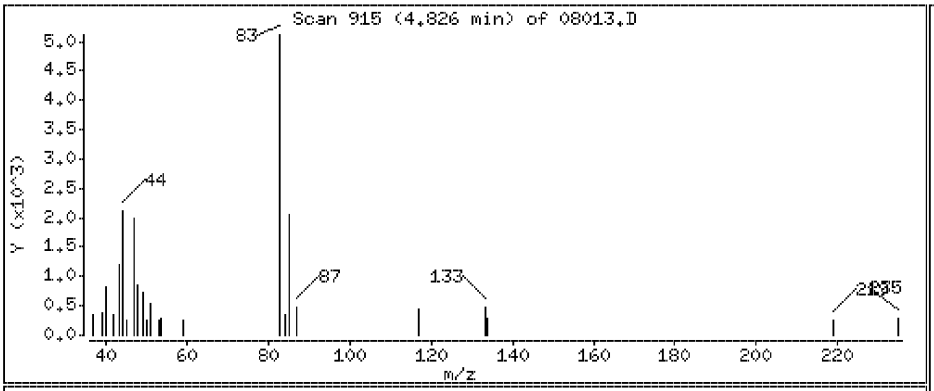
Operator: NCK

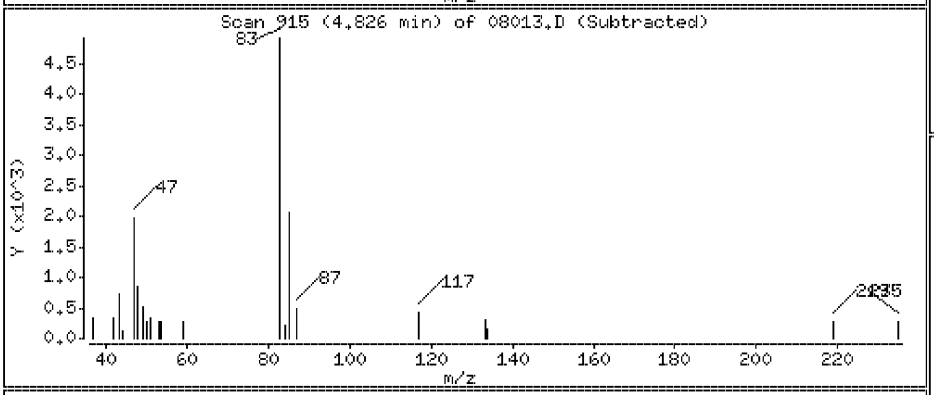
Column phase: J&W DB-5

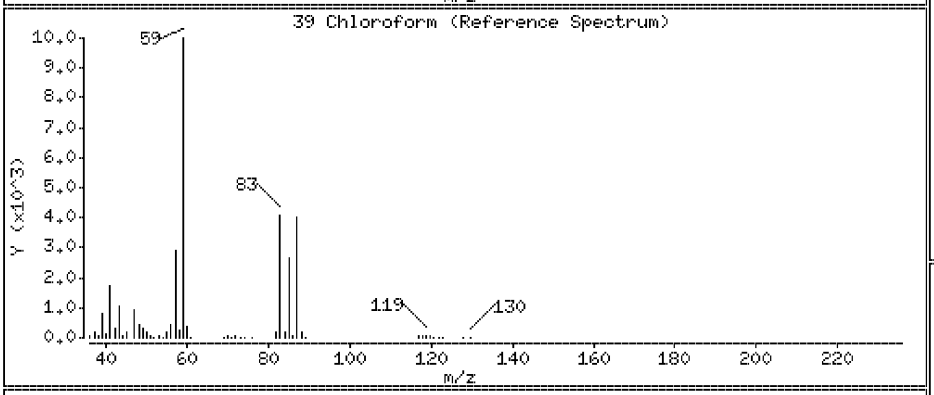
Column diameter: 0.32

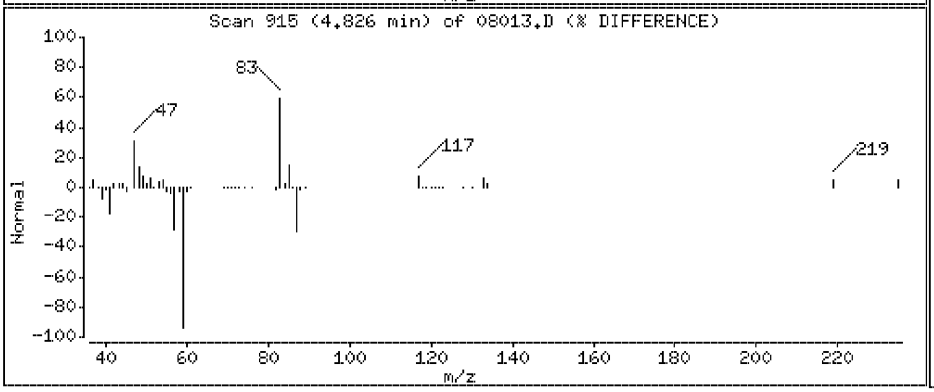
39 Chloroform

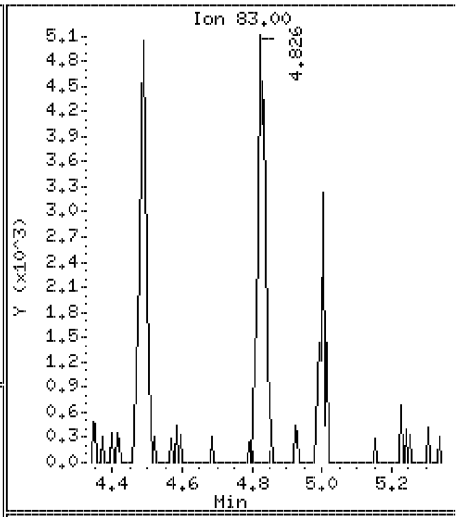
Concentration: 0.103 ppbv

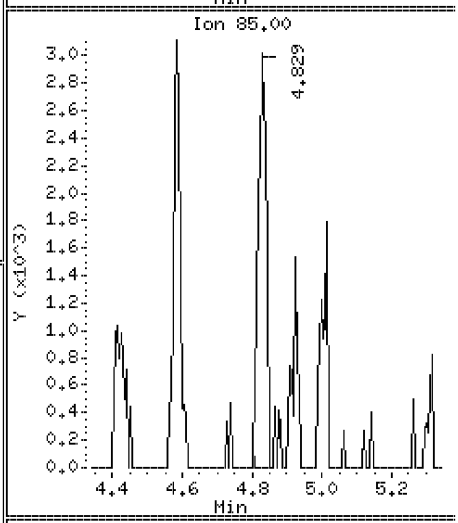


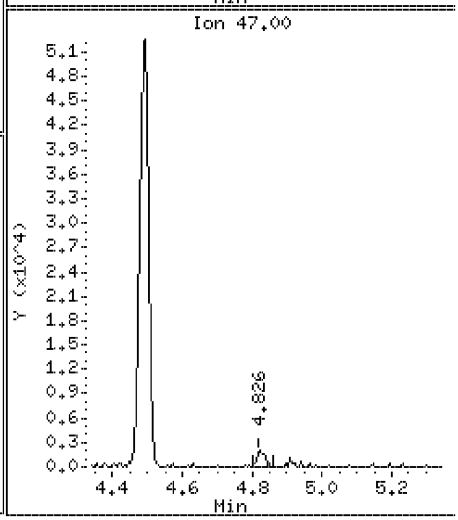












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

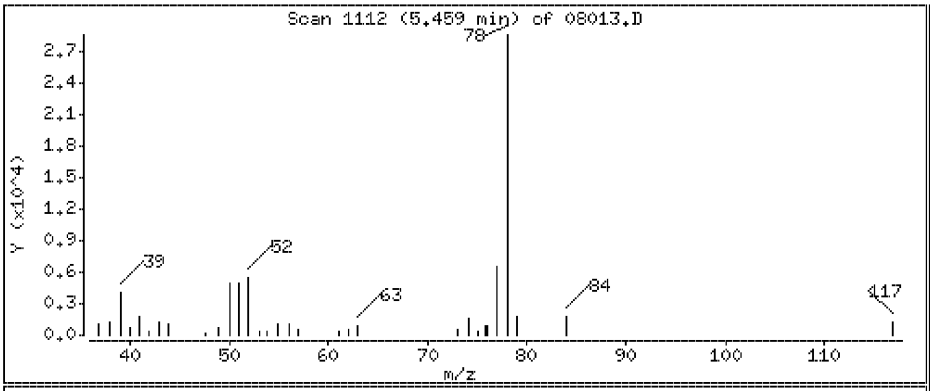
Operator: NCK

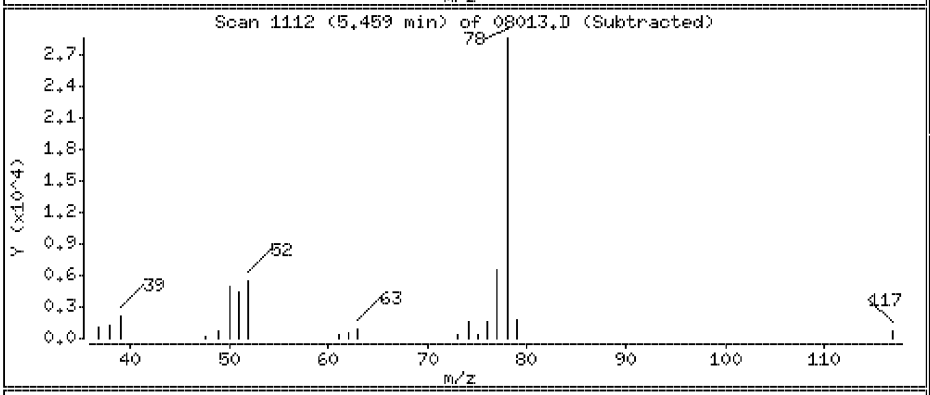
Column phase: J&W DB-5

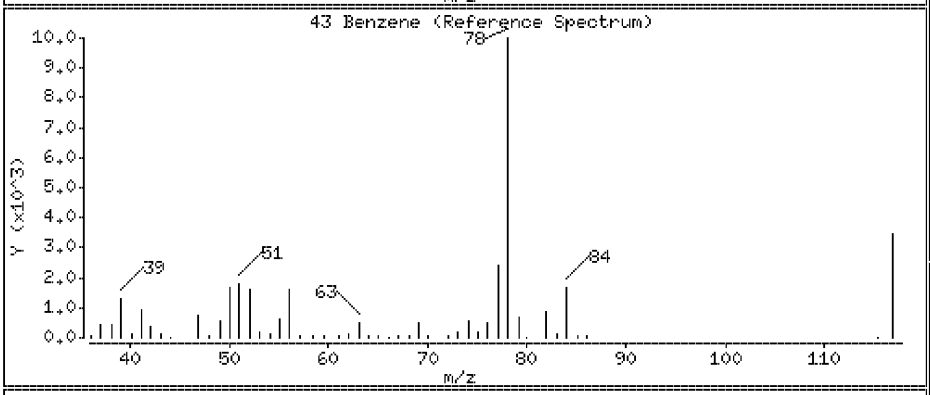
Column diameter: 0.32

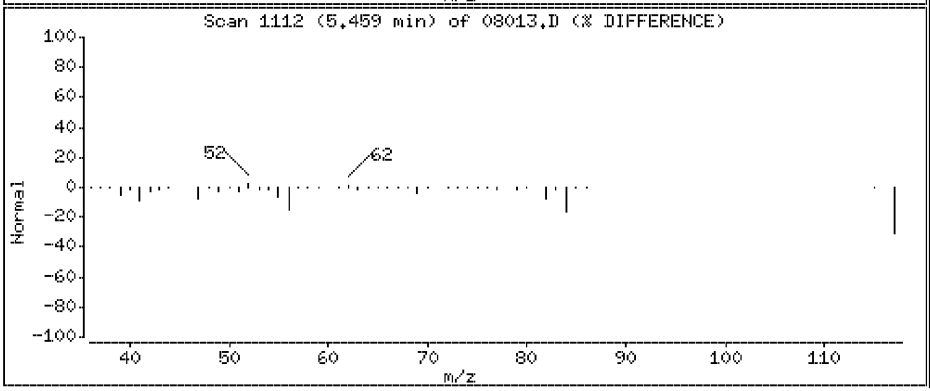
43 Benzene

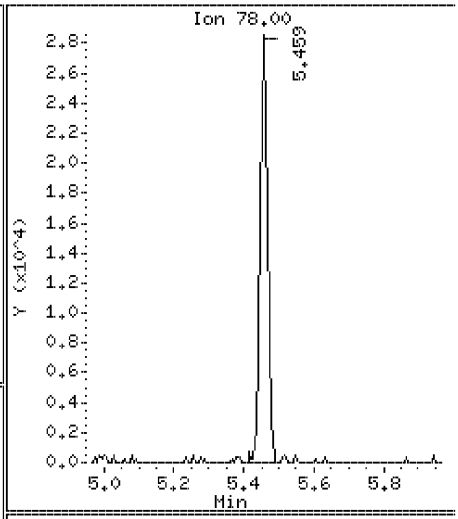
Concentration: 0.357 ppbv

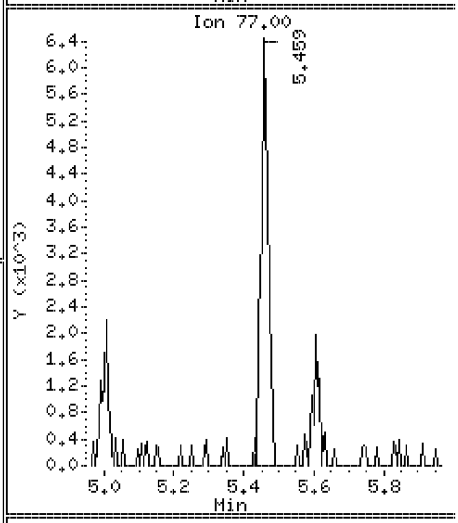


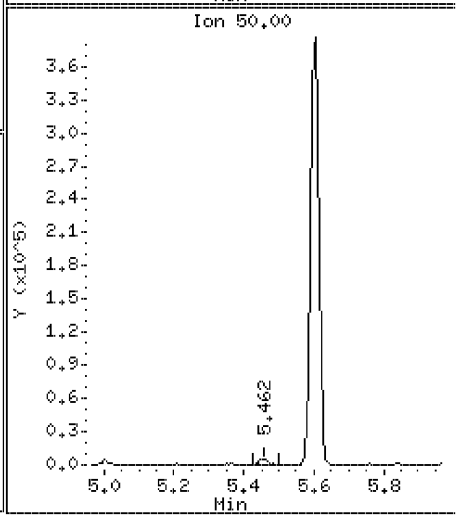












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

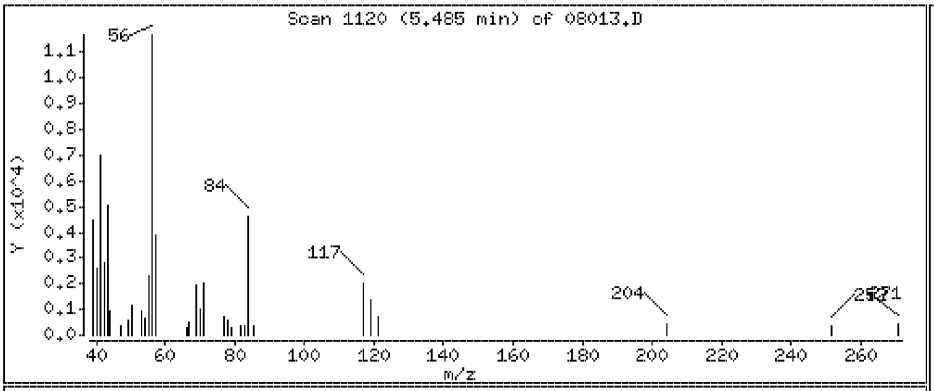
Operator: NCK

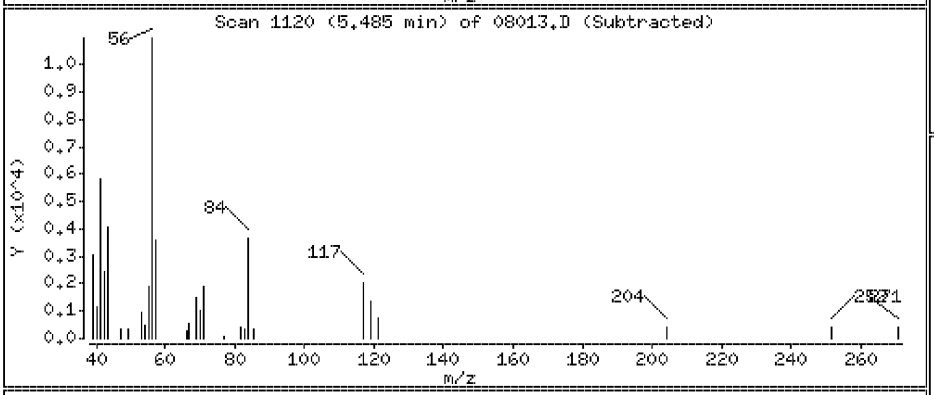
Column phase: J&W DB-5

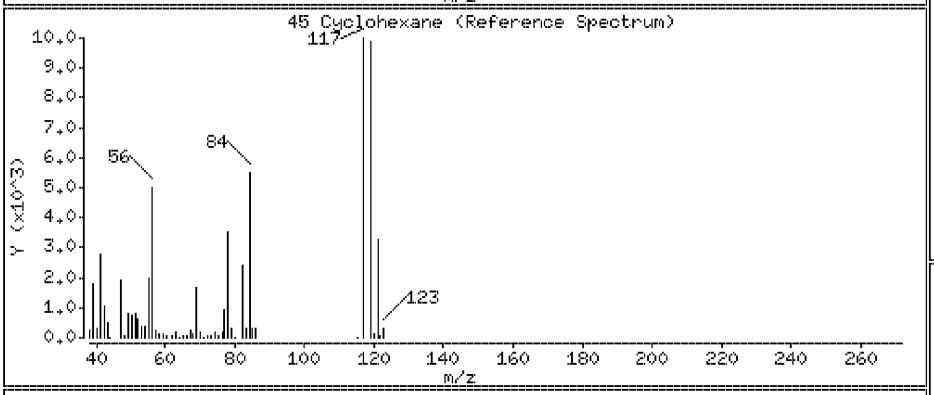
Column diameter: 0.32

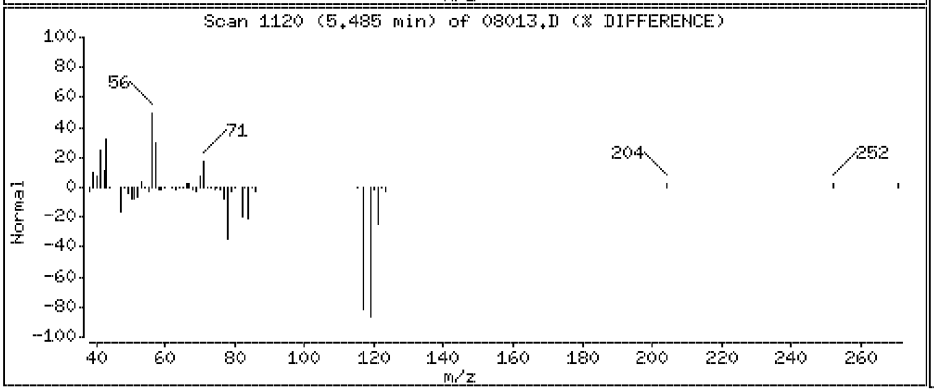
45 Cyclohexane

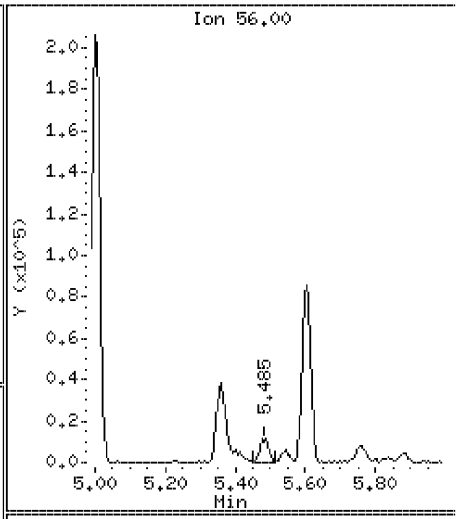
Concentration: 0.284 ppbv

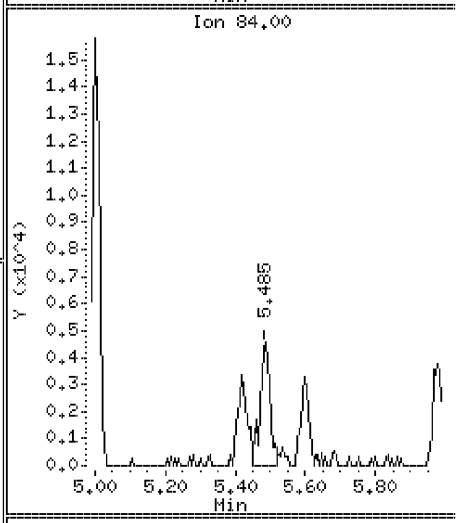


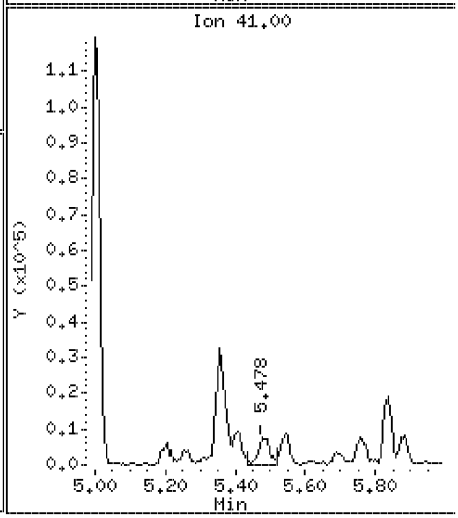












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

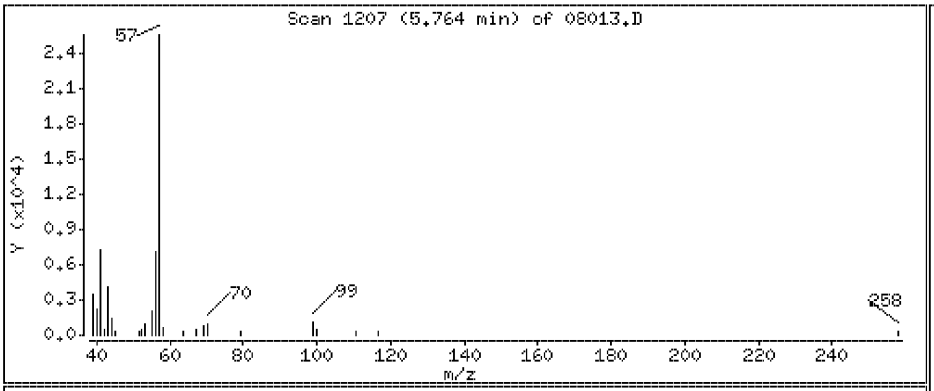
Operator: NCK

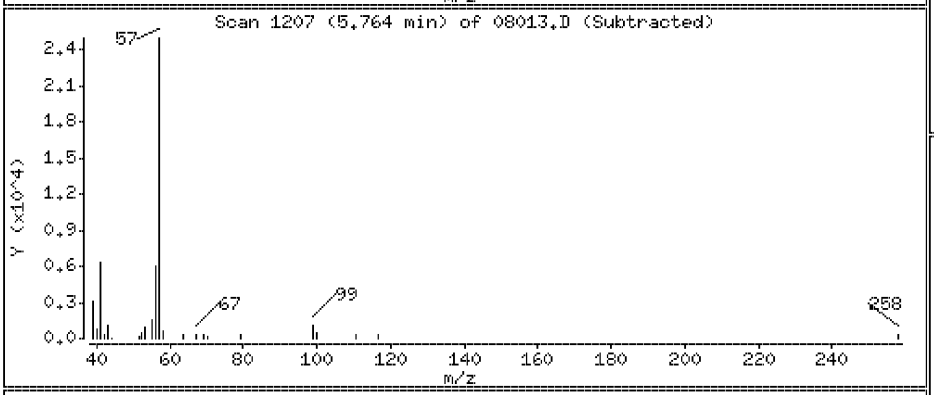
Column phase: J&W DB-5

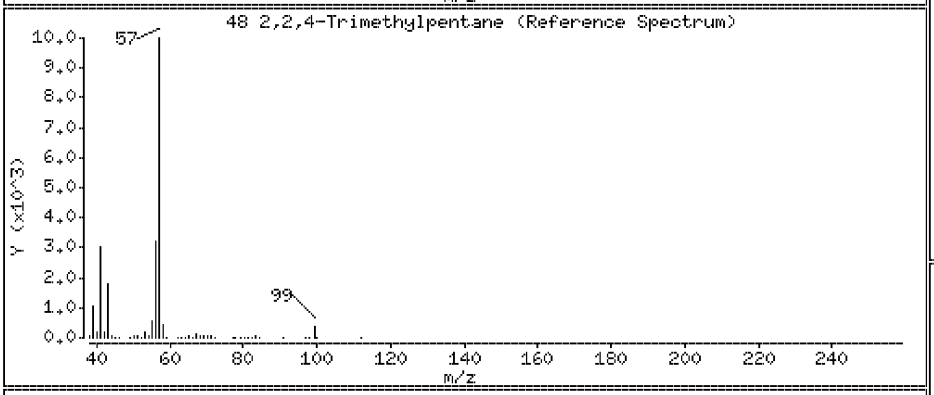
Column diameter: 0.32

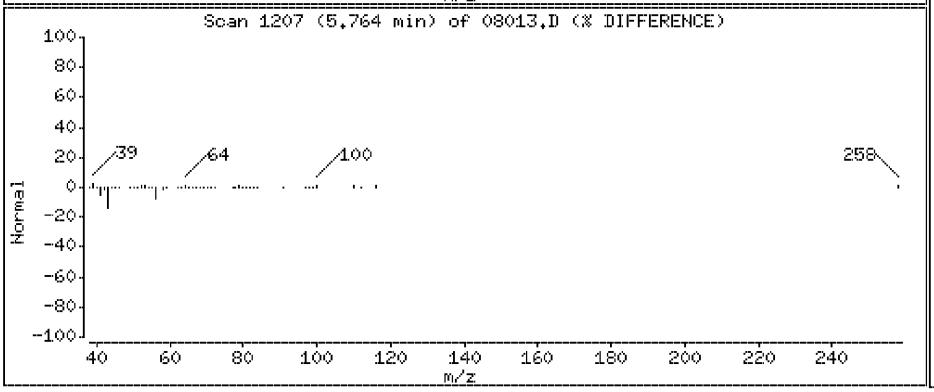
48 2,2,4-Trimethylpentane

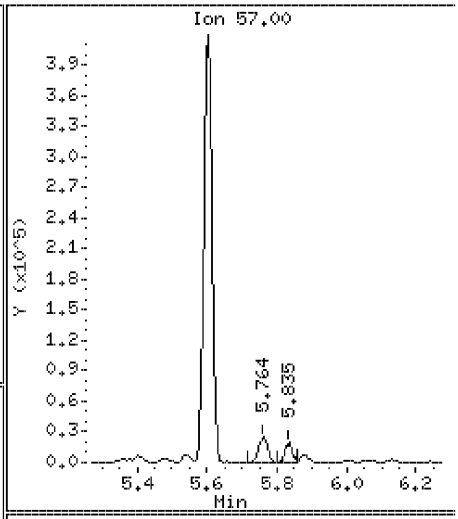
Concentration: 0.212 ppbv

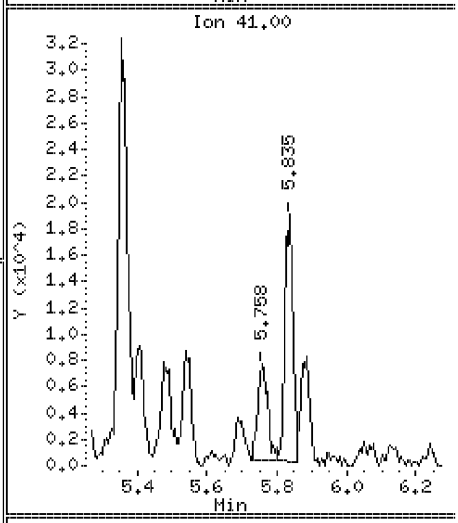


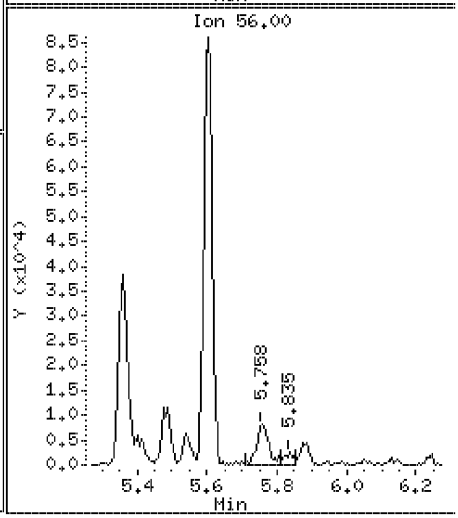












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

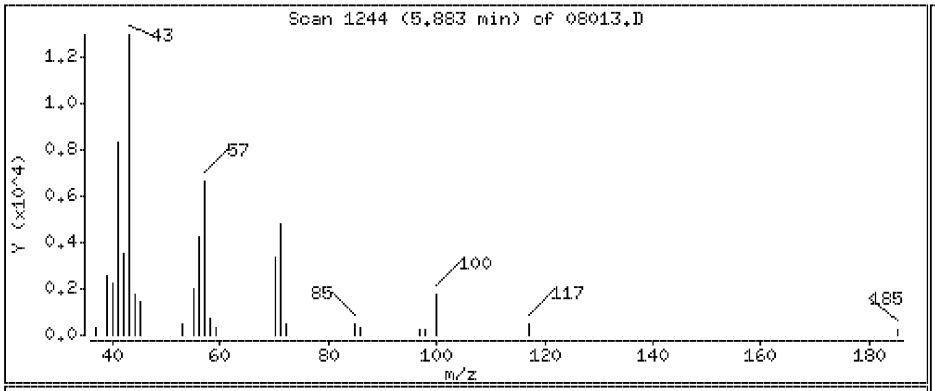
Operator: NCK

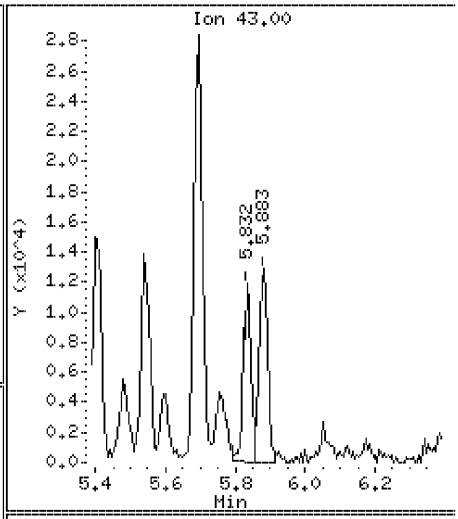
Column phase: J&W DB-5

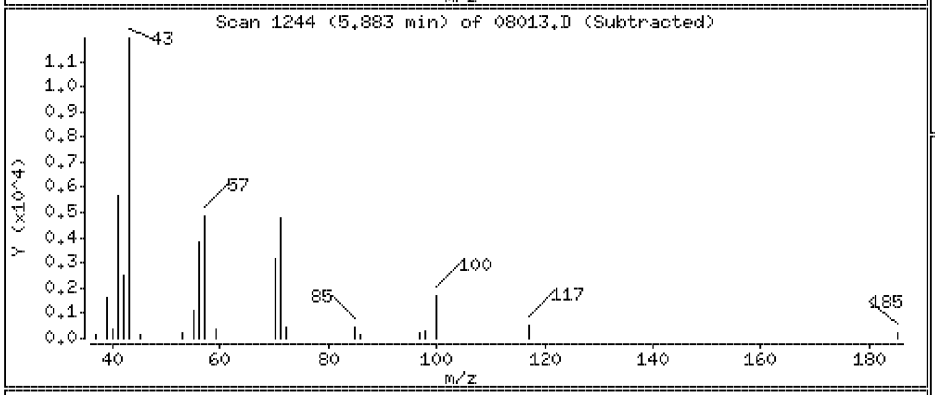
Column diameter: 0.32

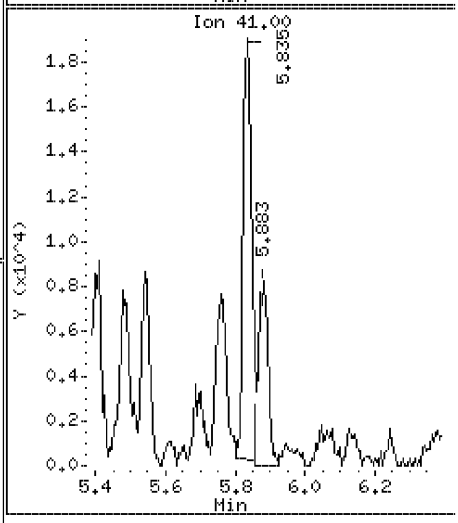
49 Heptane

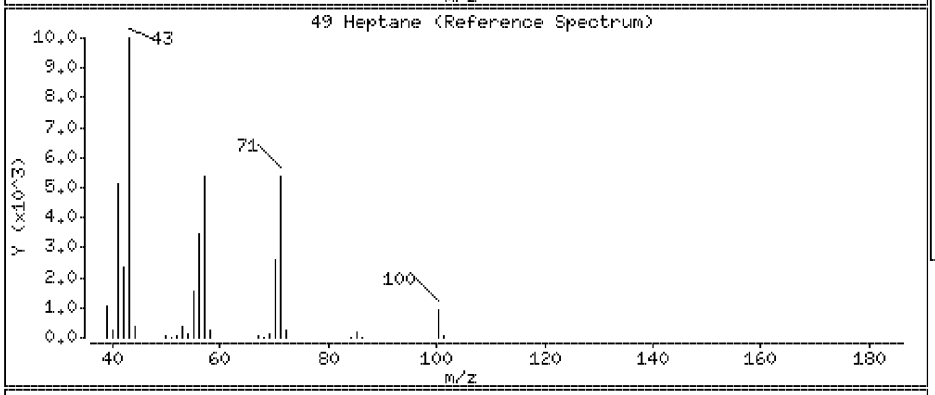
Concentration: 0.269 ppbv

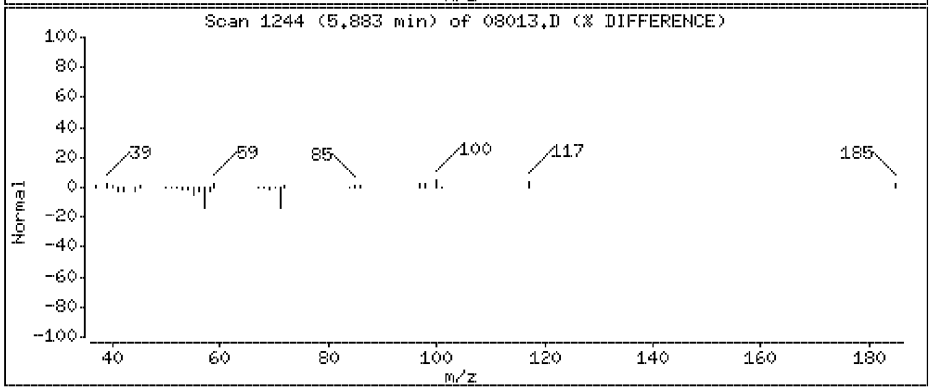












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

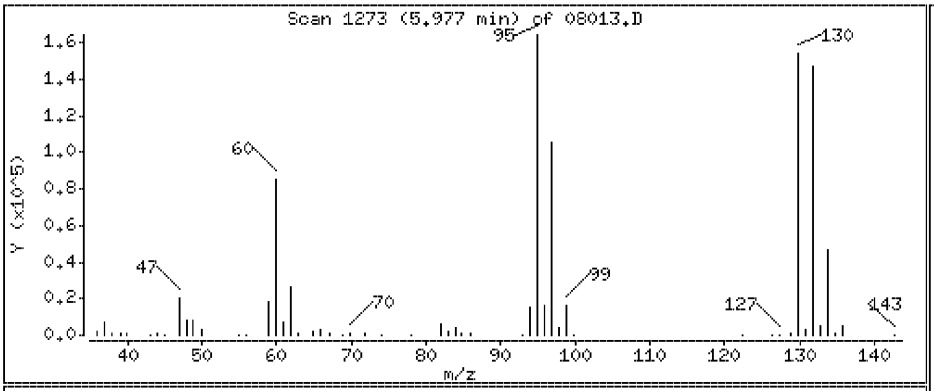
Operator: NCK

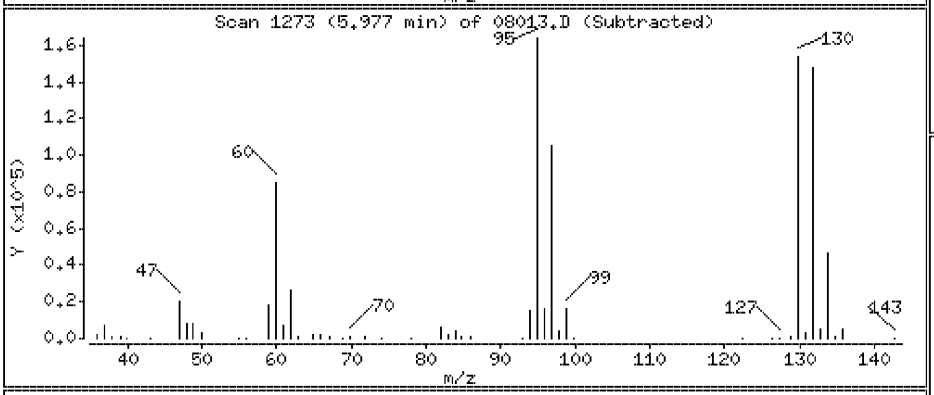
Column phase: J&W DB-5

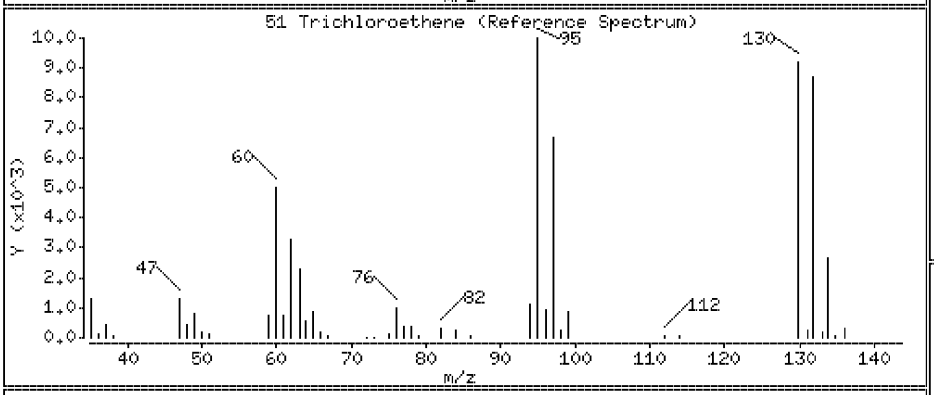
Column diameter: 0.32

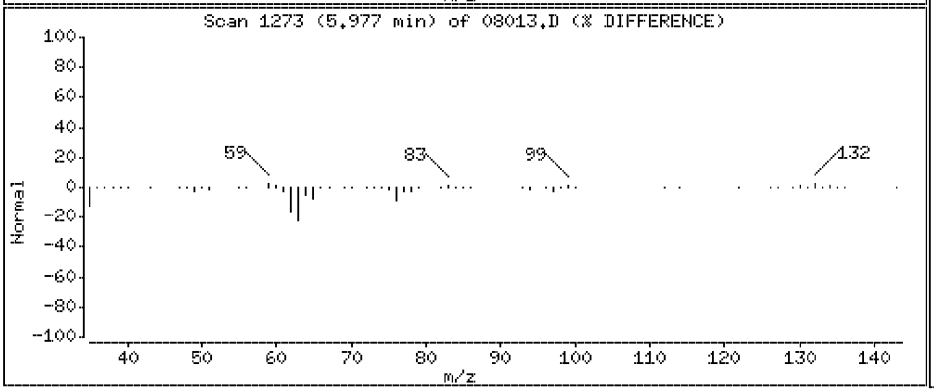
51 Trichloroethene

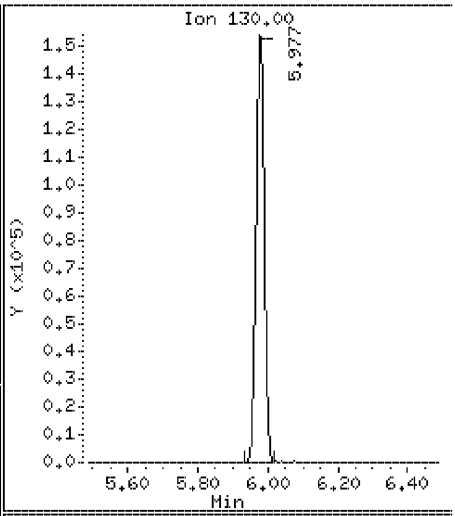
Concentration: 4.77 ppbv

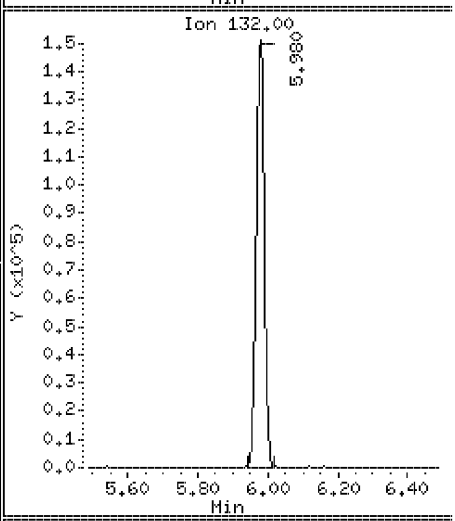


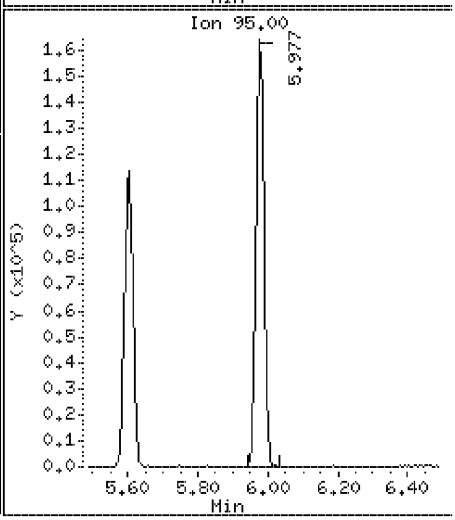












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

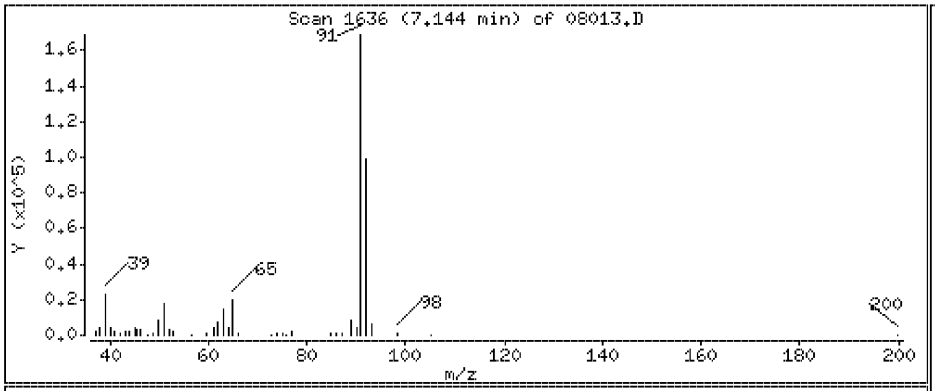
Operator: NCK

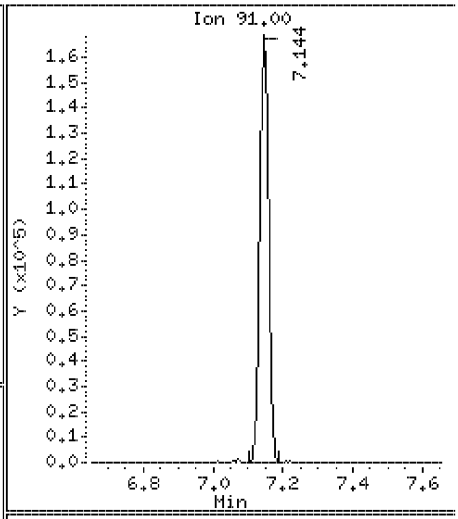
Column phase: J&W DB-5

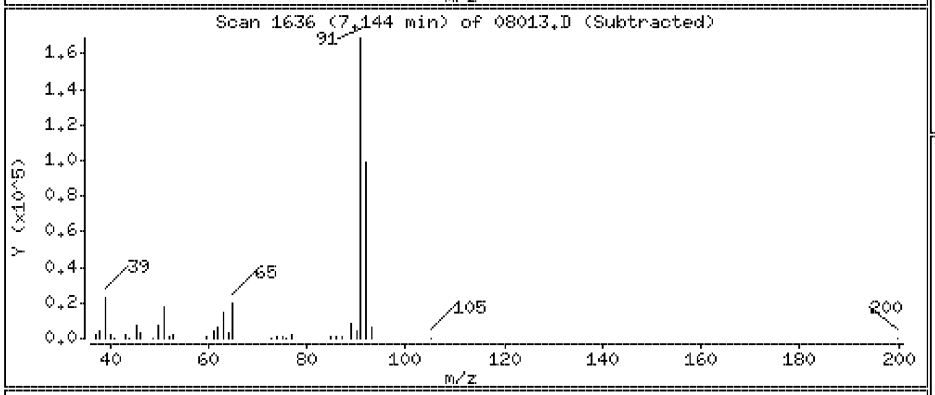
Column diameter: 0.32

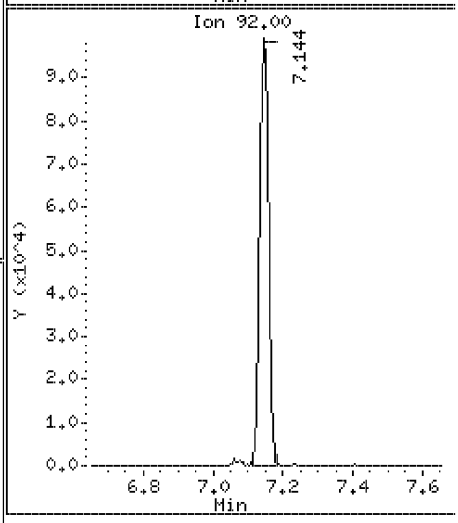
61 Toluene

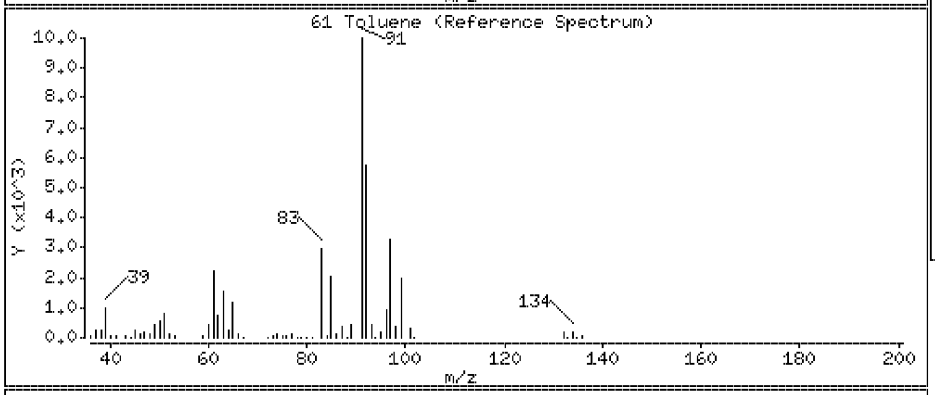
Concentration: 2.19 ppbv

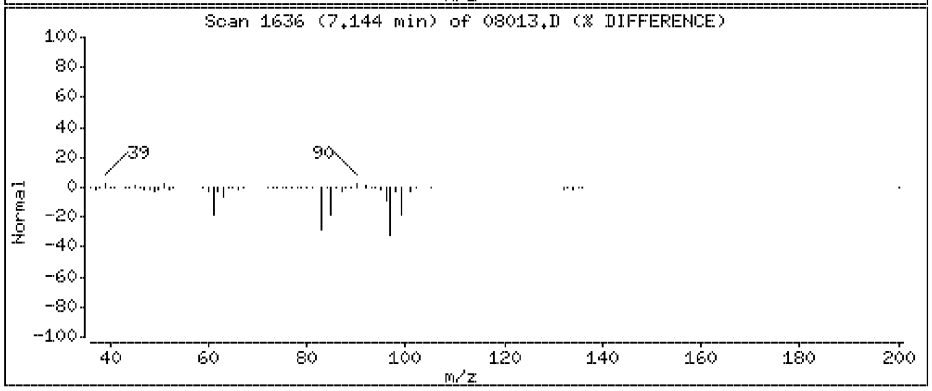












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

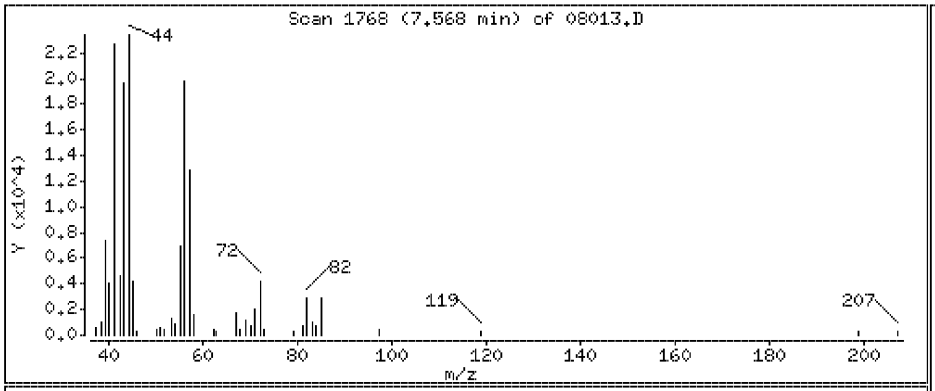
Operator: NCK

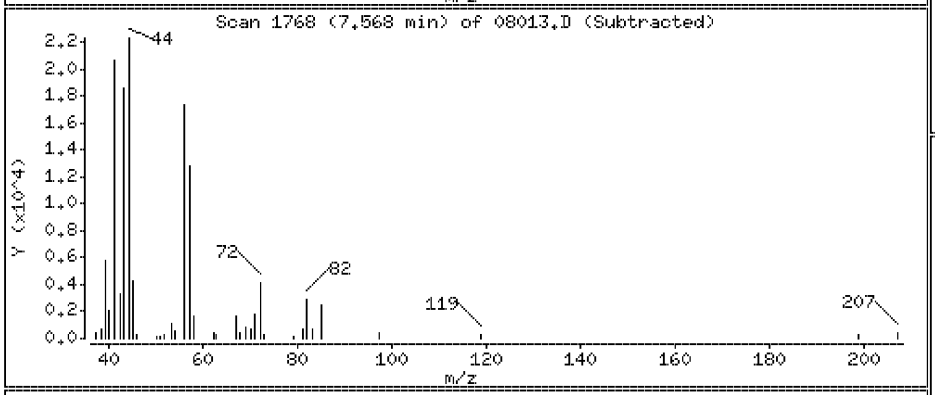
Column phase: J&W DB-5

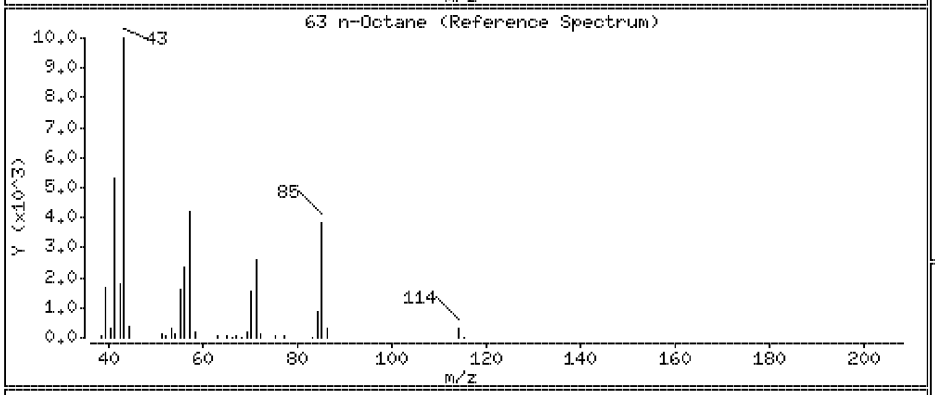
Column diameter: 0.32

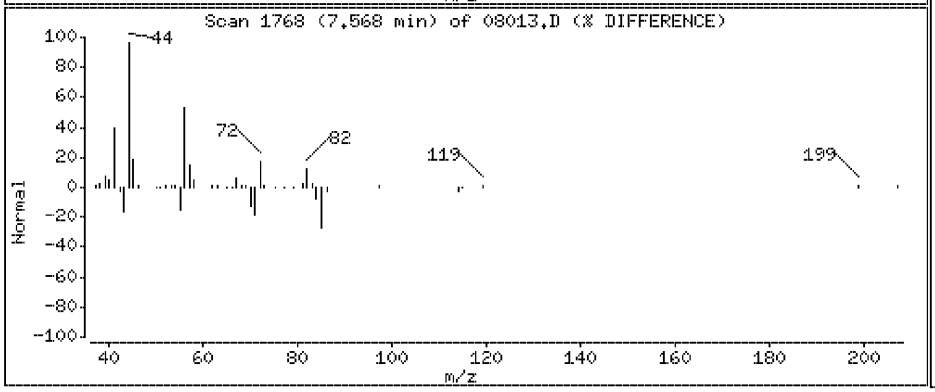
63 n-Octane

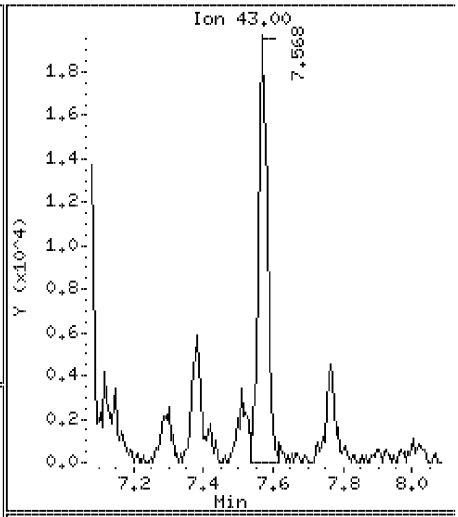
Concentration: 0.360 ppbv

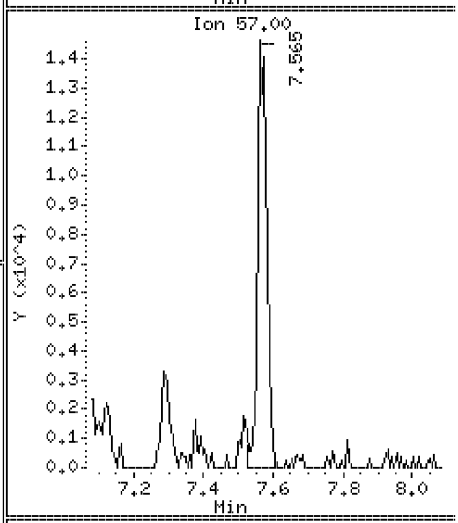


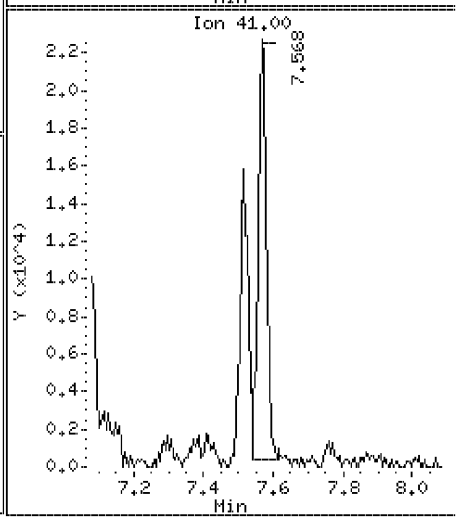












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

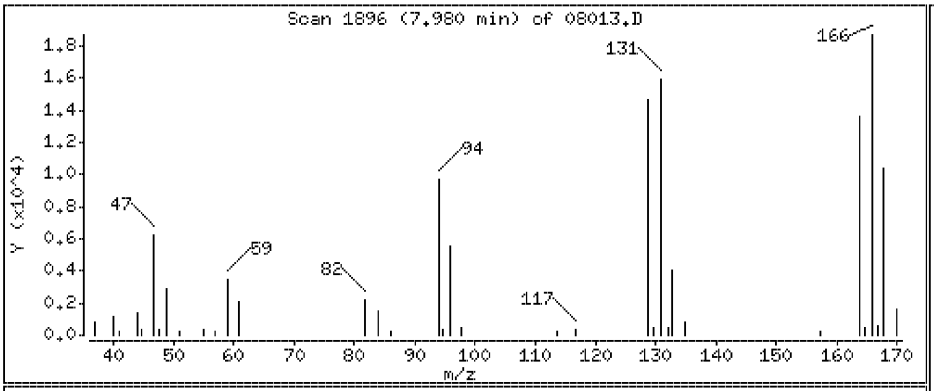
Operator: NCK

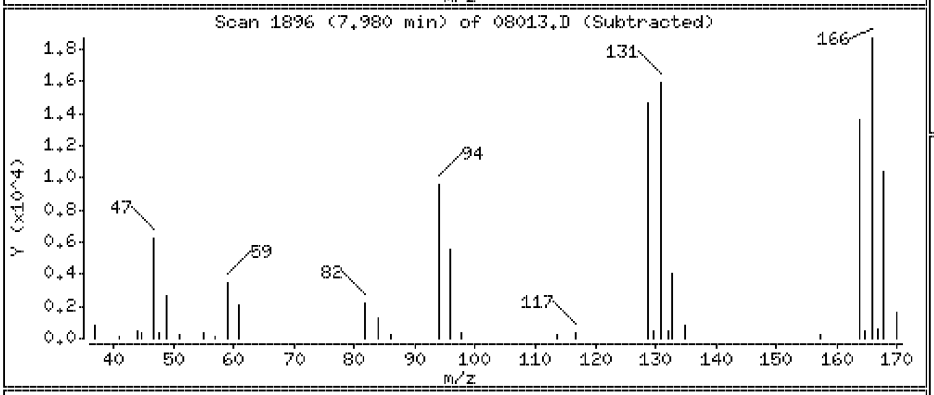
Column phase: J&W DB-5

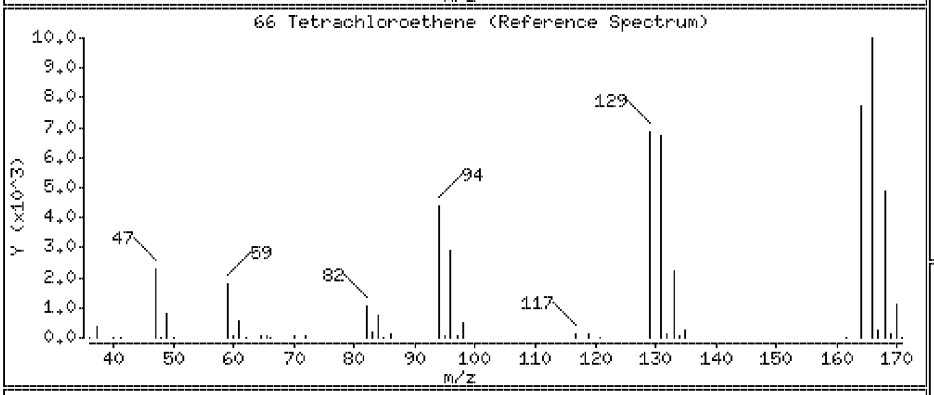
Column diameter: 0.32

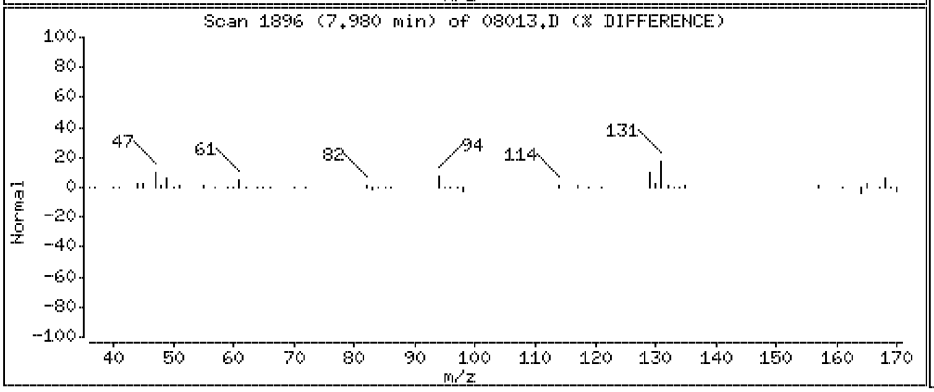
66 Tetrachloroethene

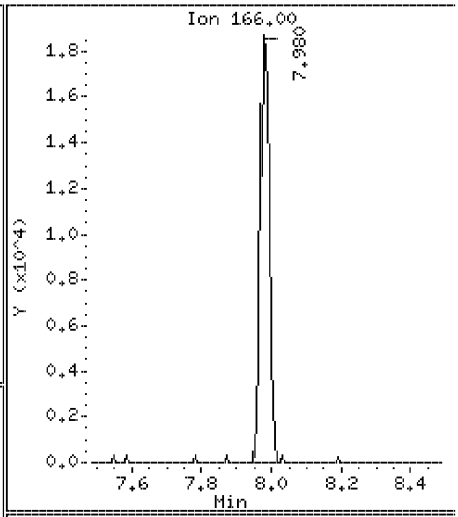
Concentration: 0.579 ppbv

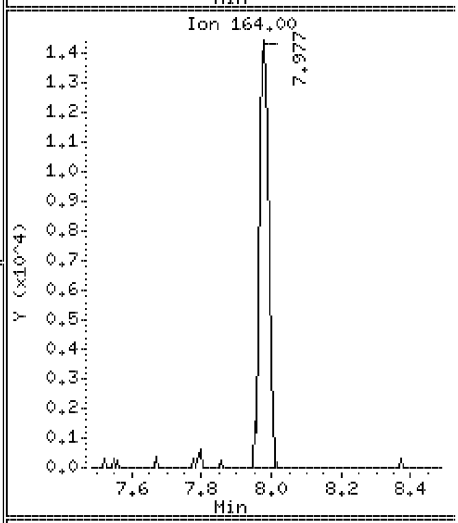


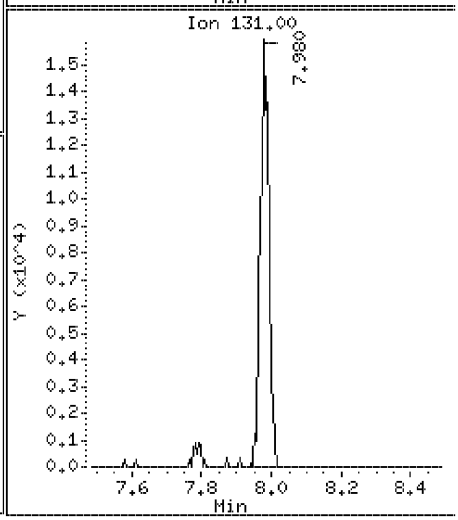












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

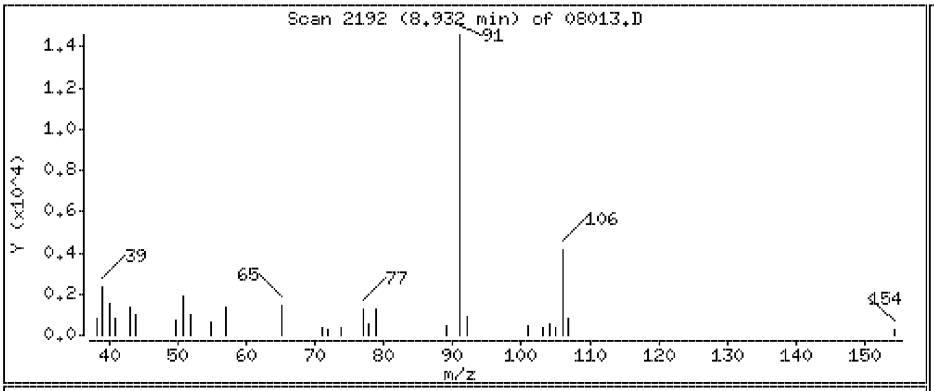
Operator: NCK

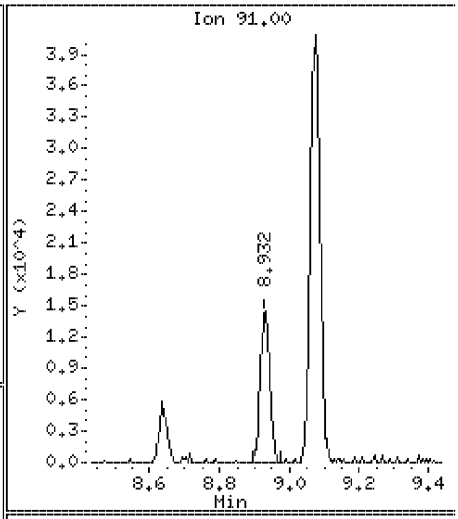
Column phase: J&W DB-5

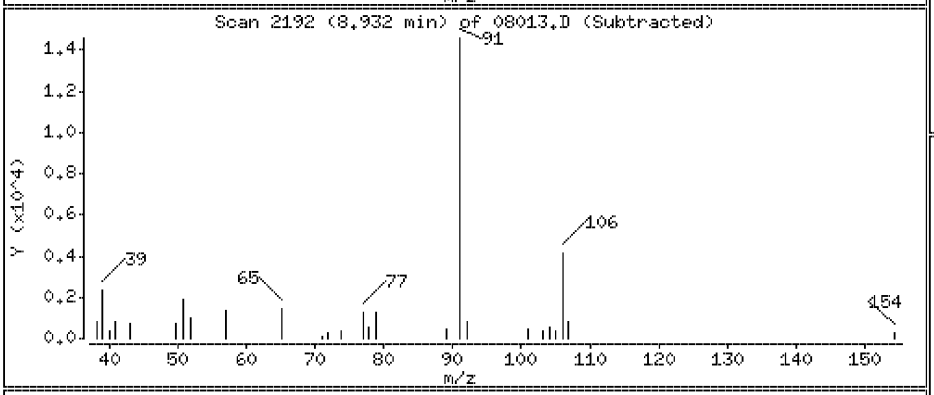
Column diameter: 0.32

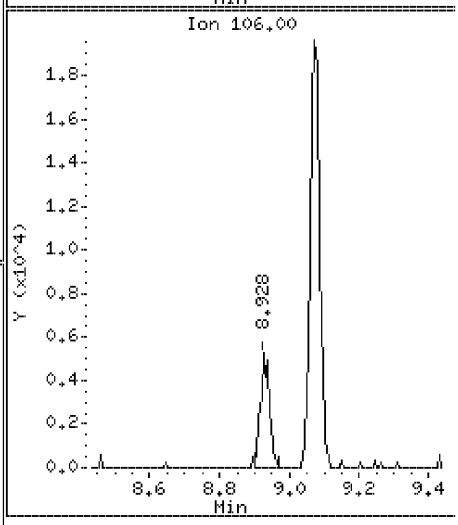
69 Ethyl Benzene

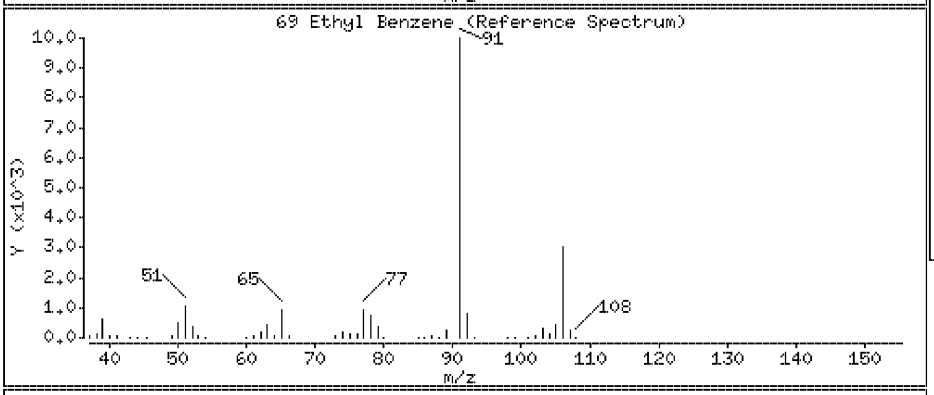
Concentration: 0.182 ppbv

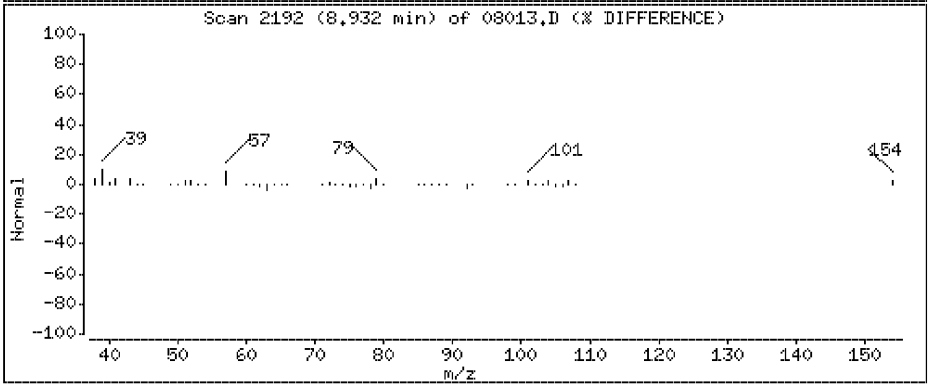












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

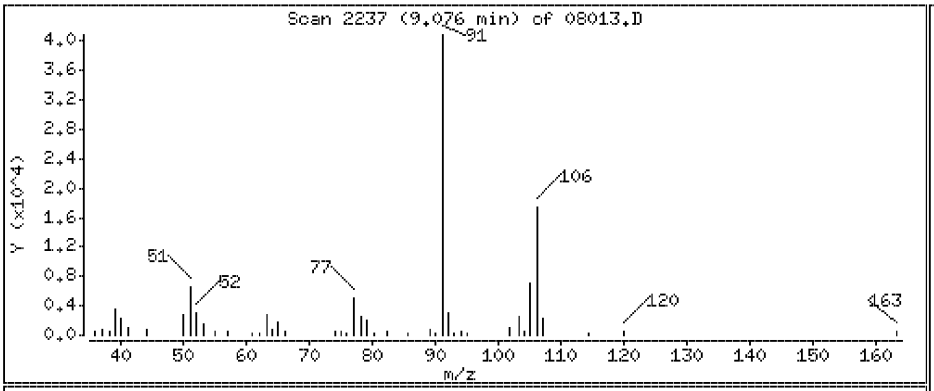
Operator: NCK

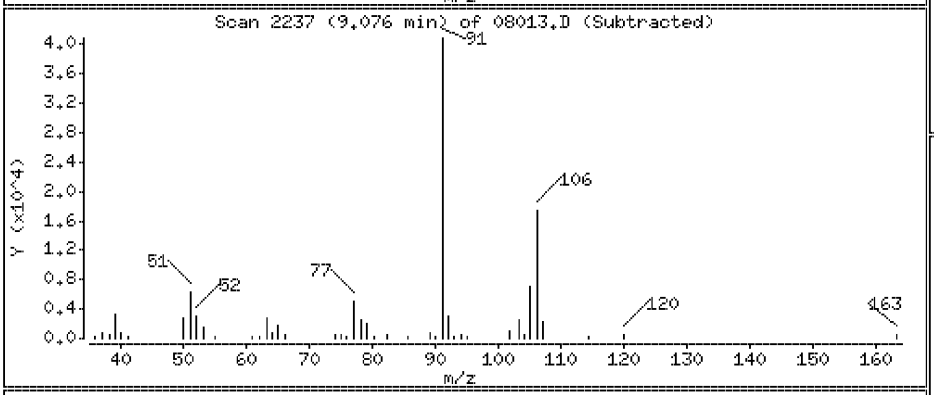
Column phase: J&W DB-5

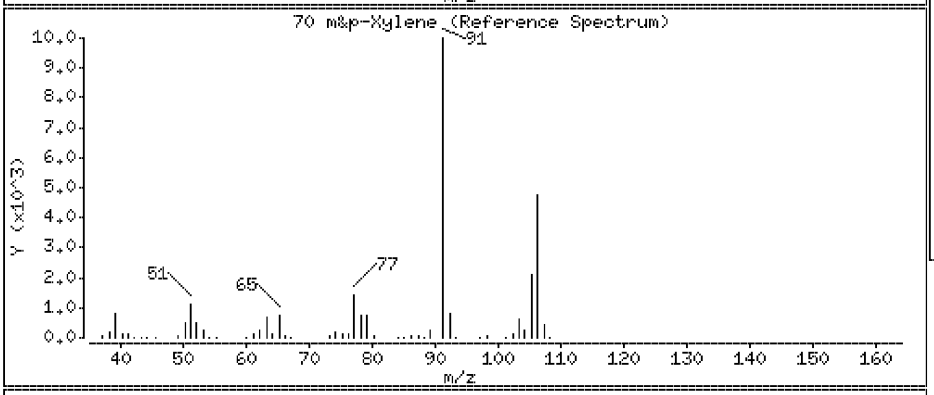
Column diameter: 0.32

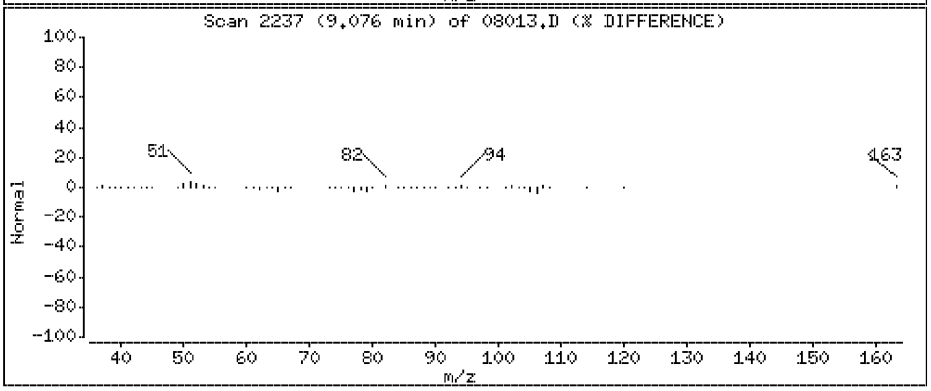
70 m&p-Xylene

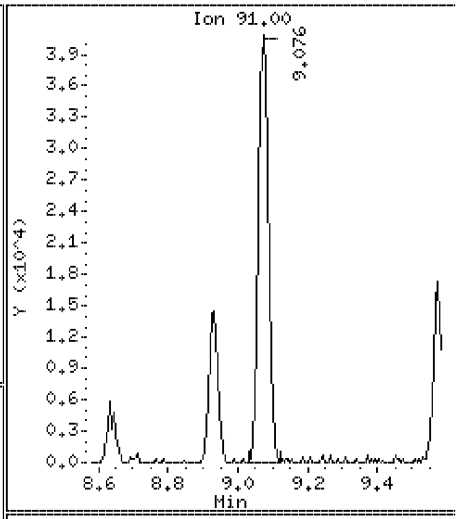
Concentration: 0.867 ppbv

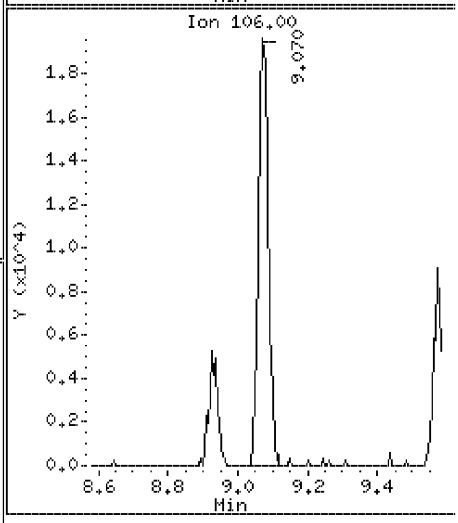












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

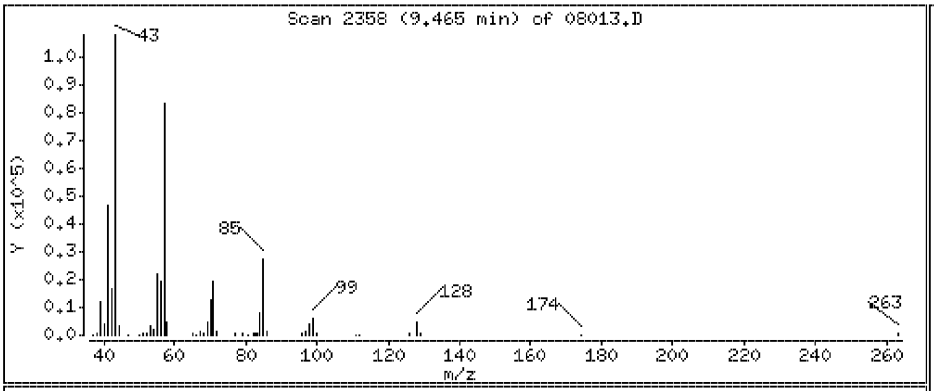
Operator: NCK

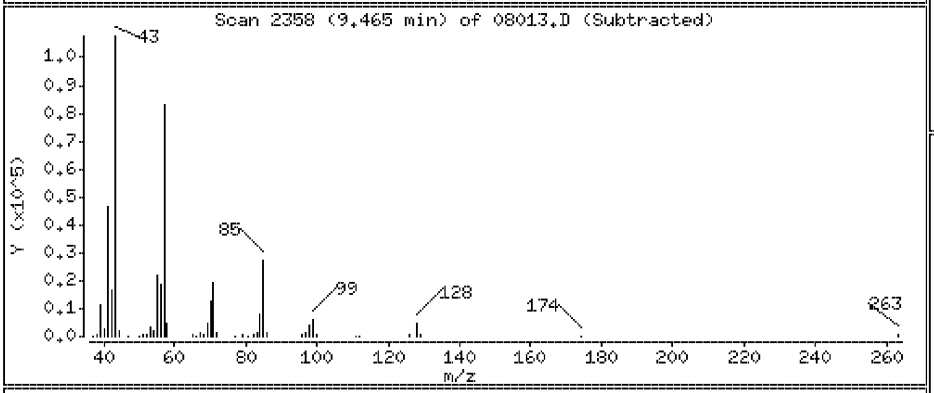
Column phase: J&W DB-5

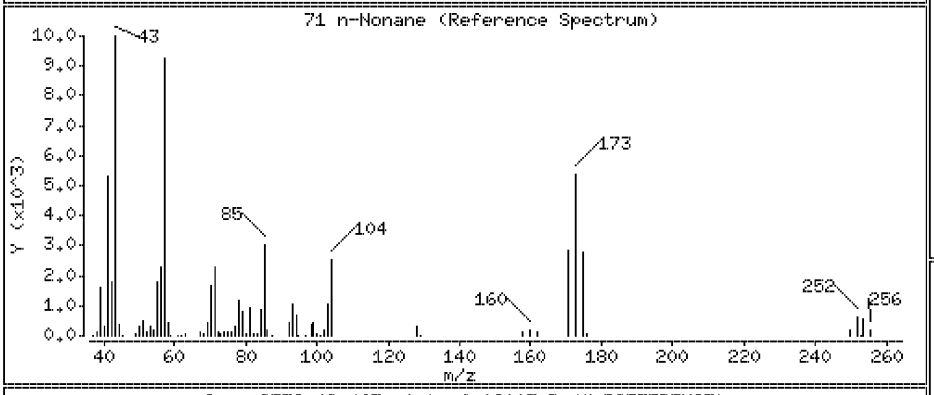
Column diameter: 0.32

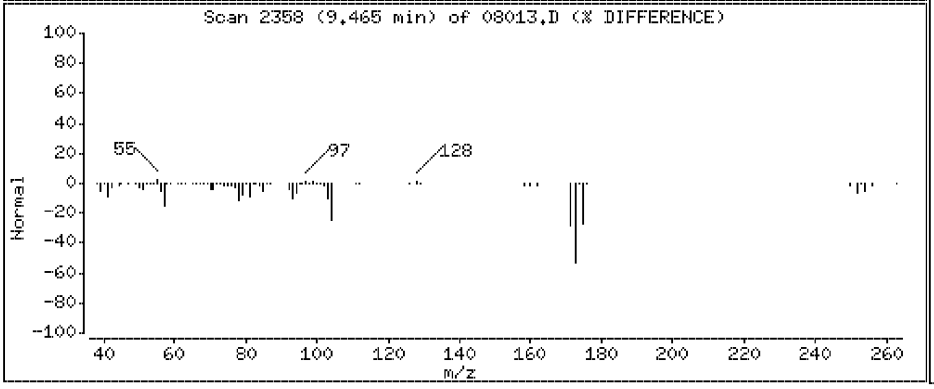
71 n-Nonane

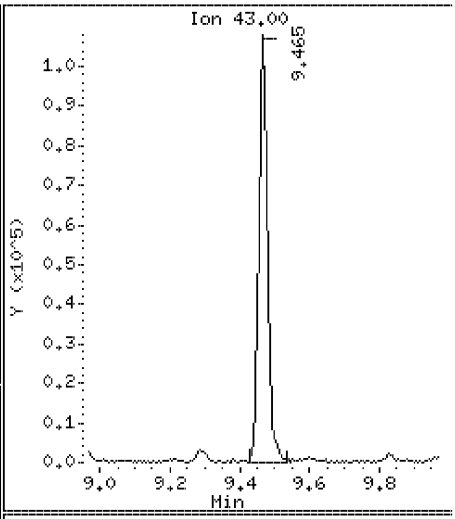
Concentration: 2.36 ppbv

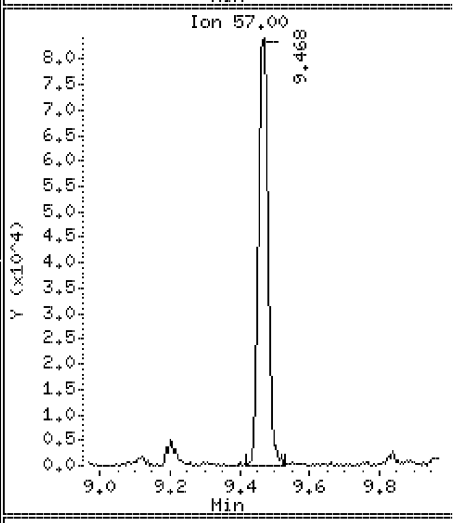


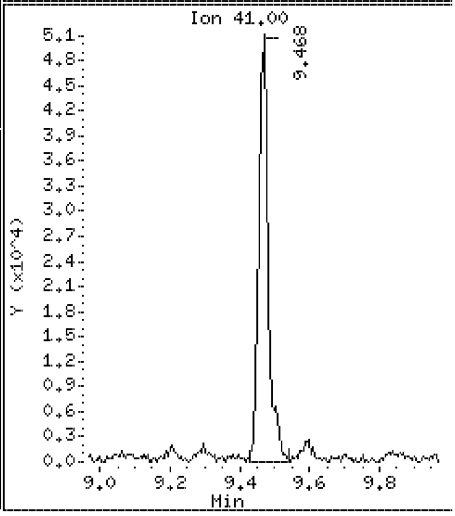












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

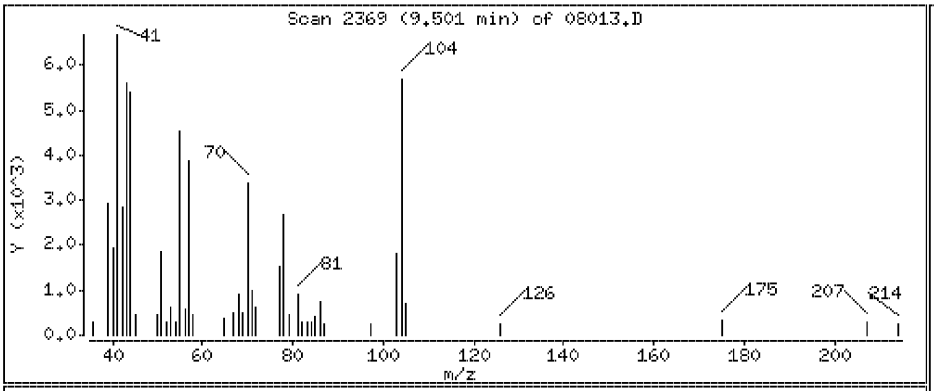
Operator: NCK

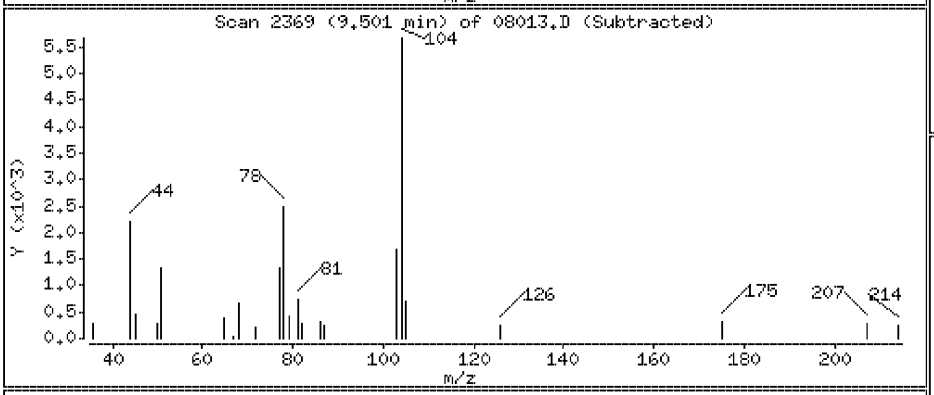
Column phase: J&W DB-5

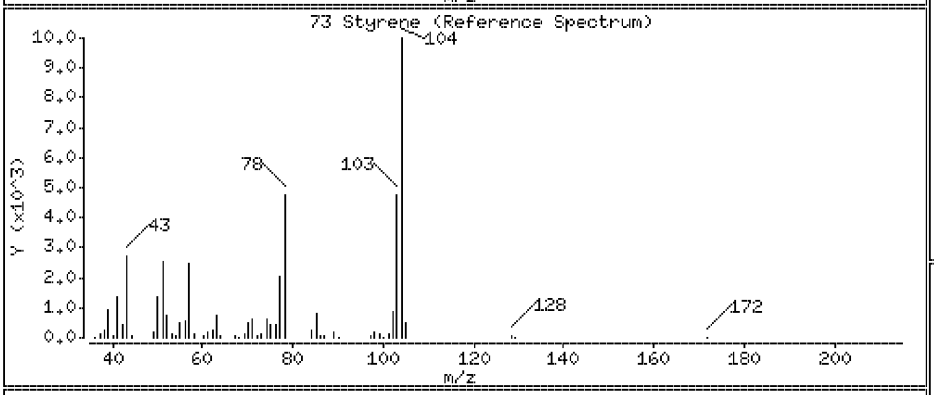
Column diameter: 0.32

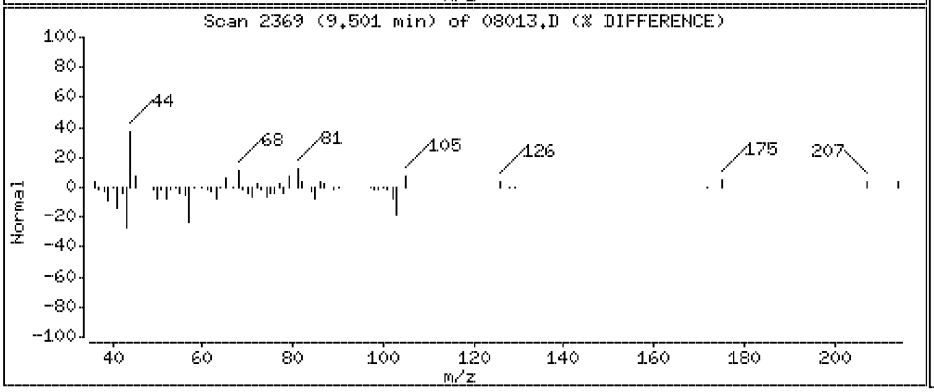
73 Styrene

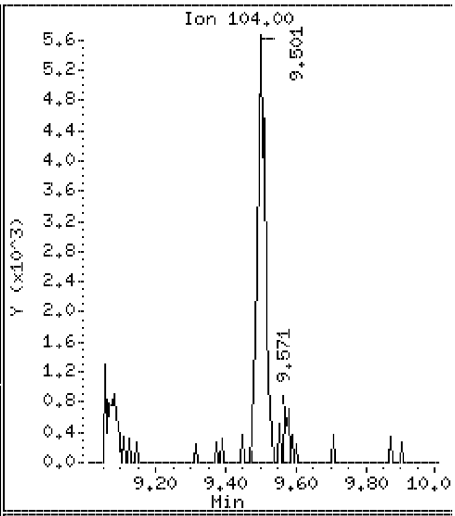
Concentration: 0.305 ppbv

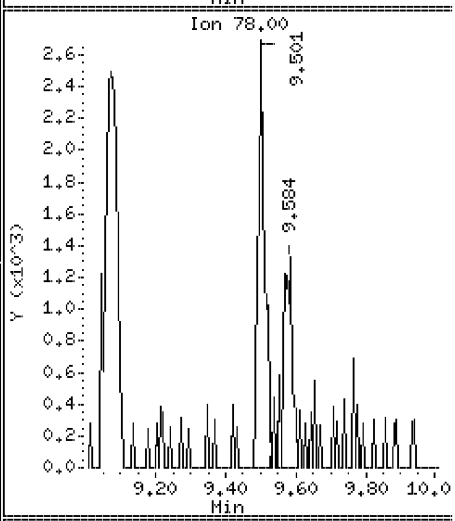


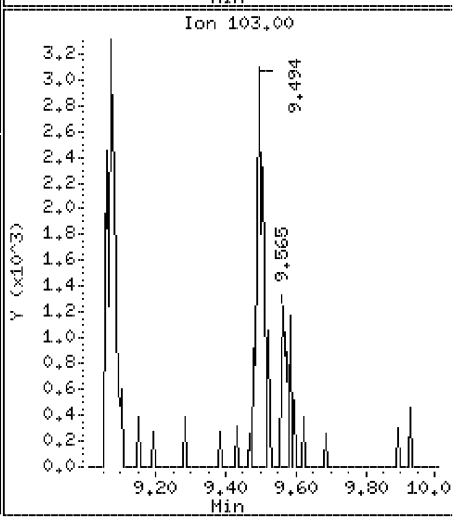












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

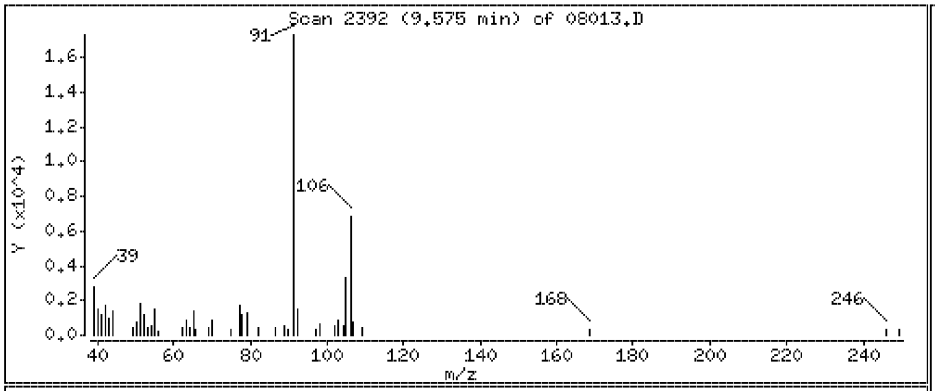
Operator: NCK

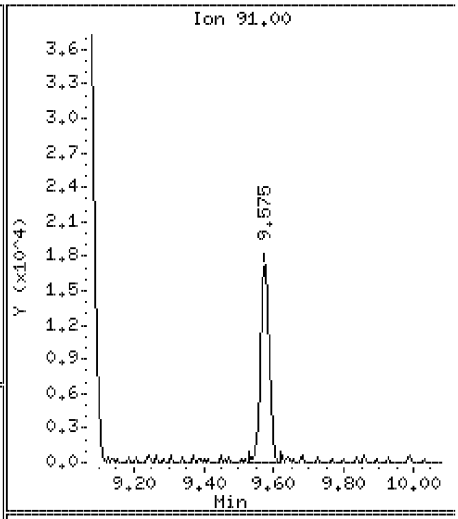
Column phase: J&W DB-5

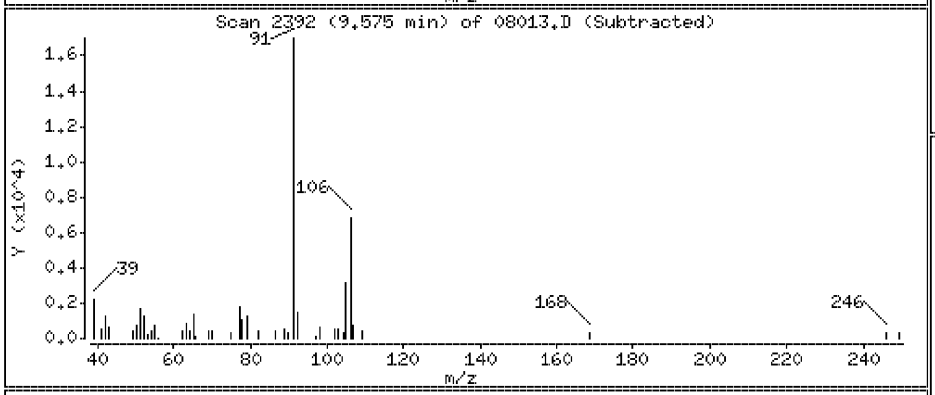
Column diameter: 0.32

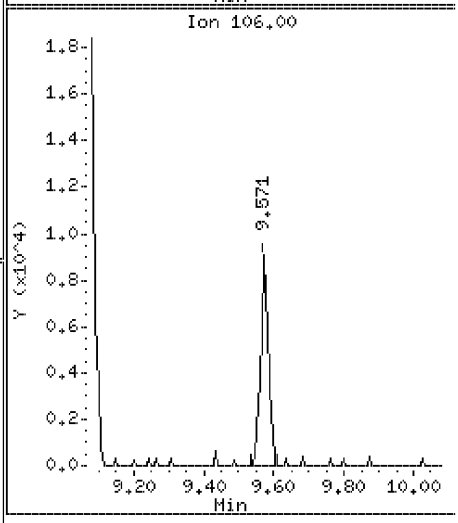
74 o-Xylene

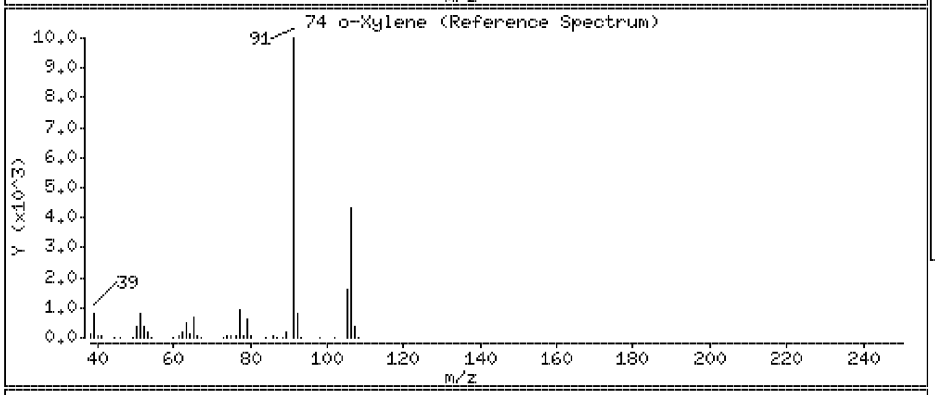
Concentration: 0.264 ppbv

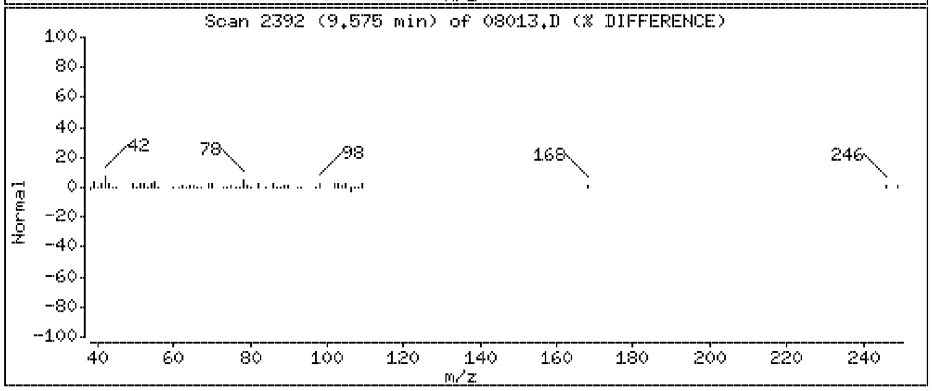












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

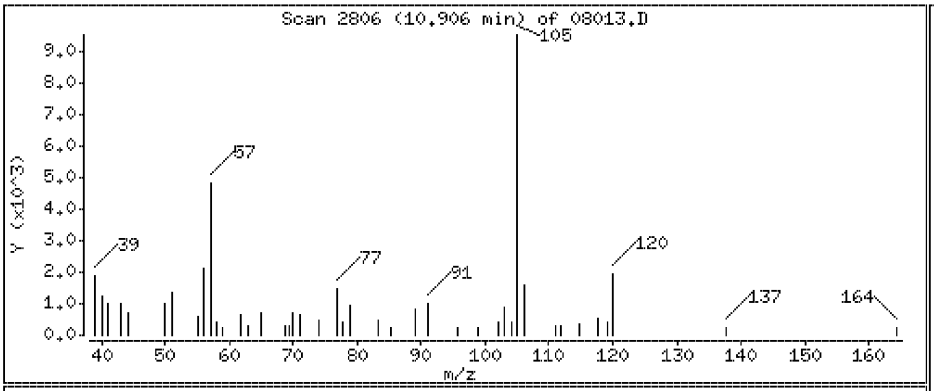
Operator: NCK

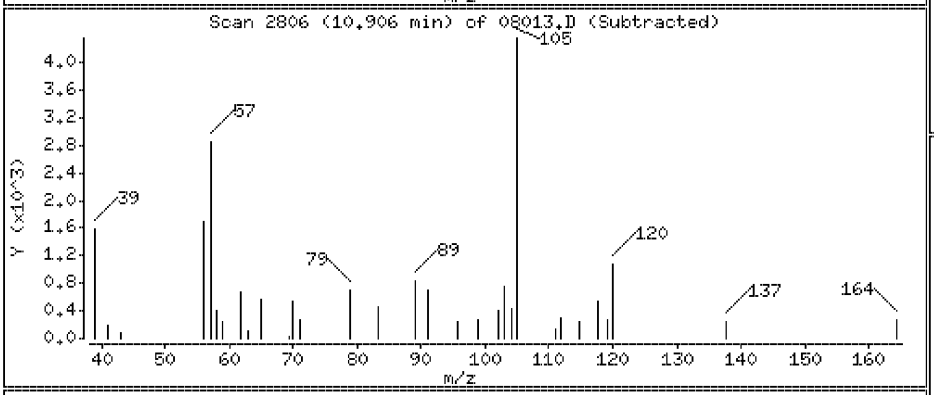
Column phase: J&W DB-5

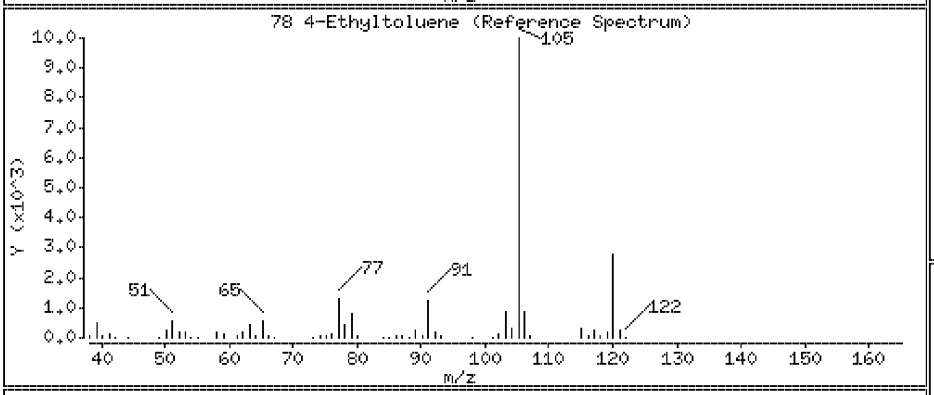
Column diameter: 0.32

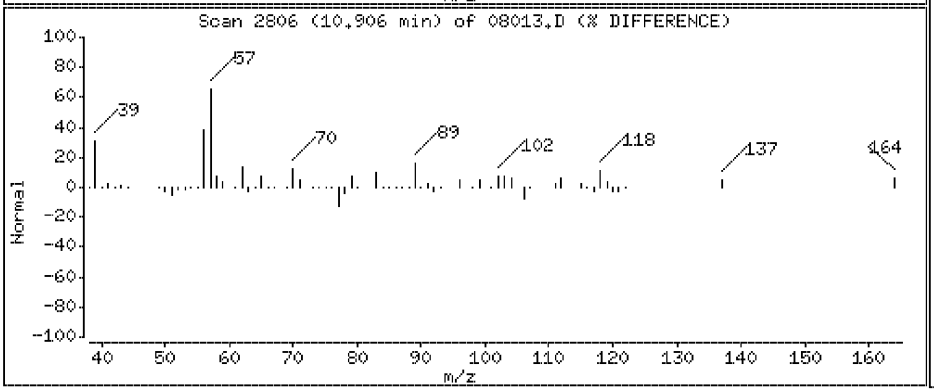
78 4-Ethyltoluene

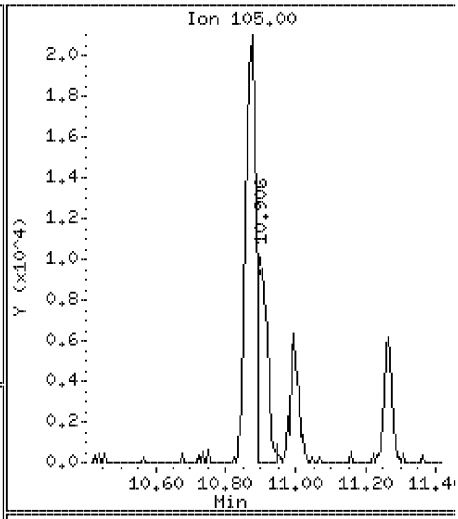
Concentration: 0.365 ppbv

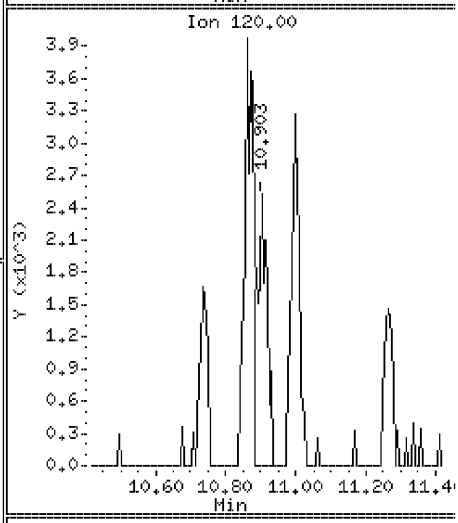


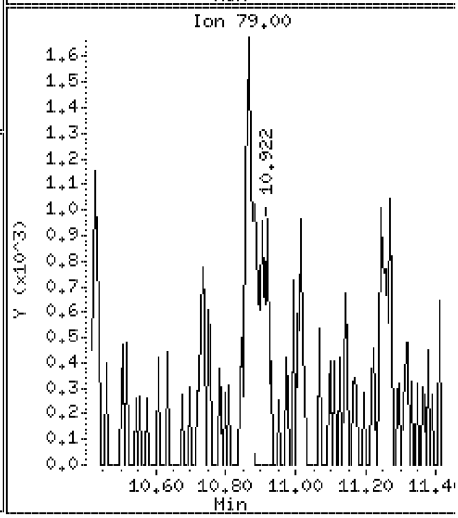












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

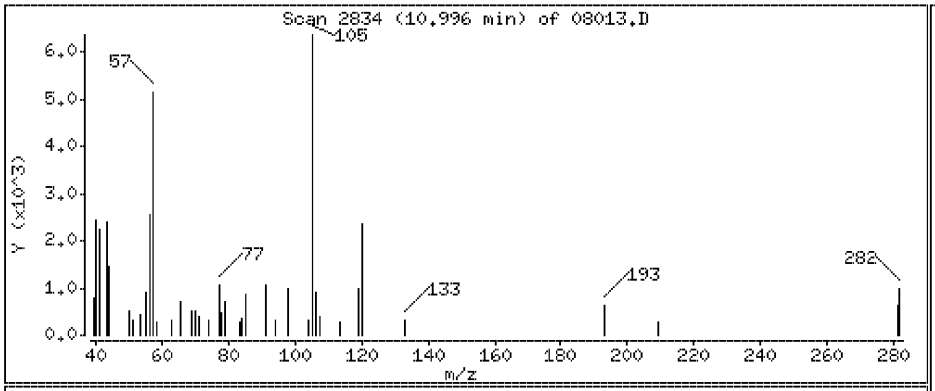
Operator: NCK

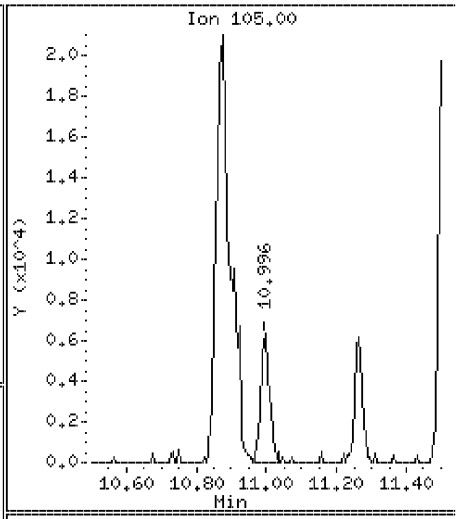
Column phase: J&W DB-5

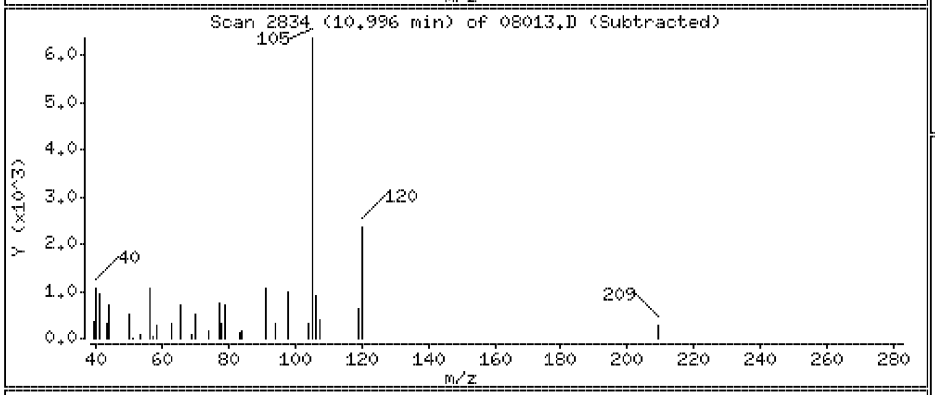
Column diameter: 0.32

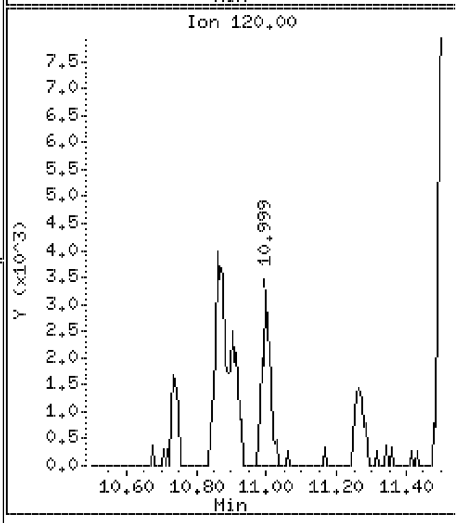
79 1,3,5-Trimethylbenzene

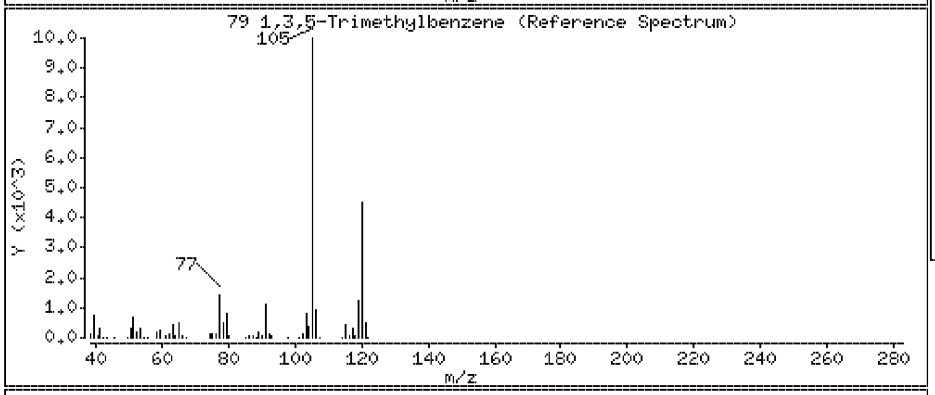
Concentration: 0.307 ppbv

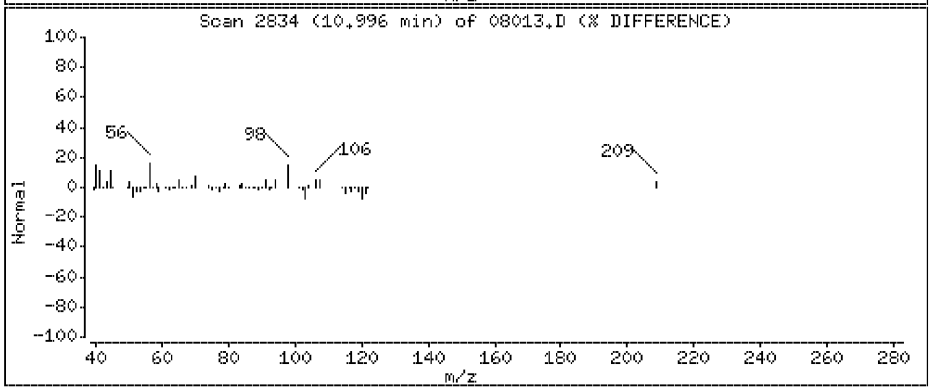












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

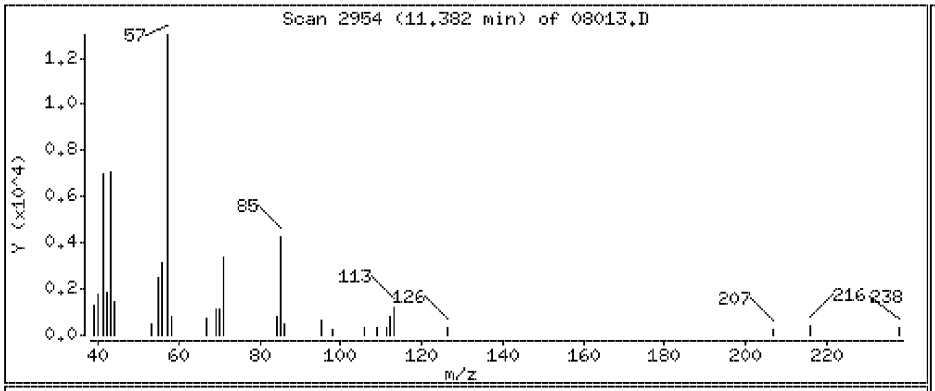
Operator: NCK

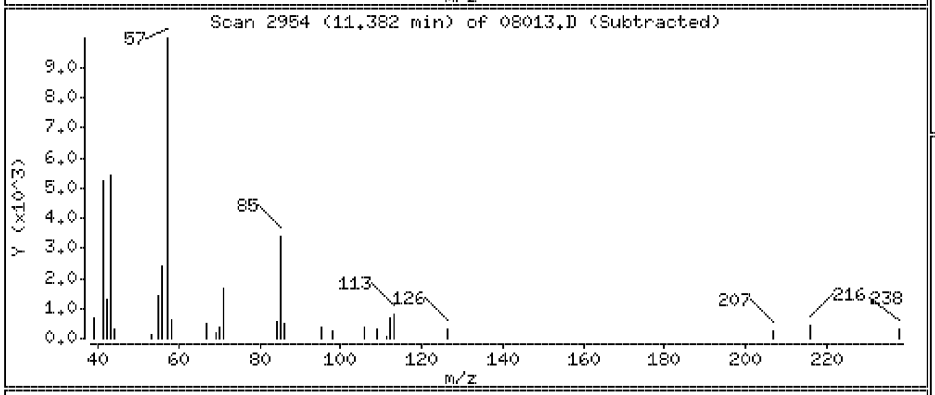
Column phase: J&W DB-5

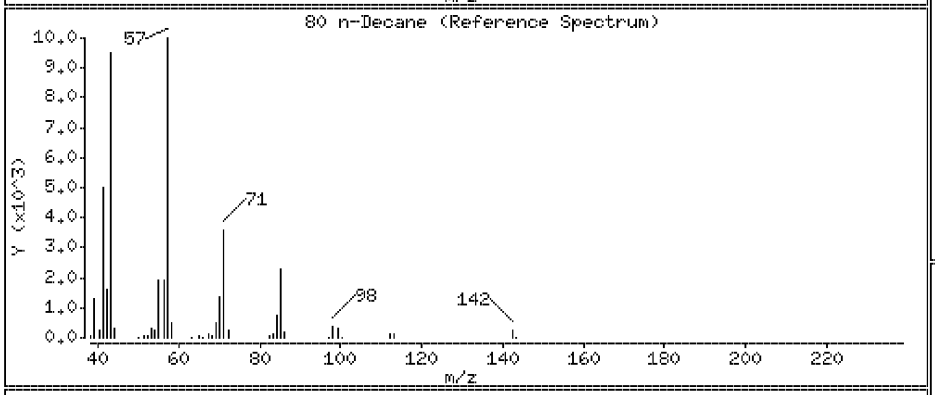
Column diameter: 0.32

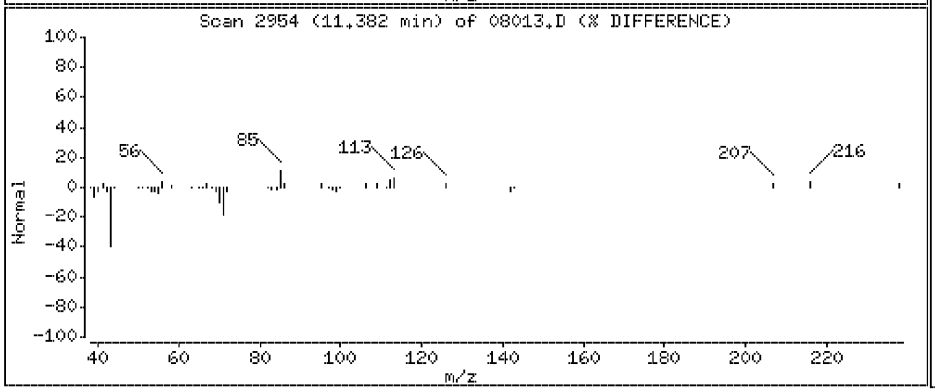
80 n-Decane

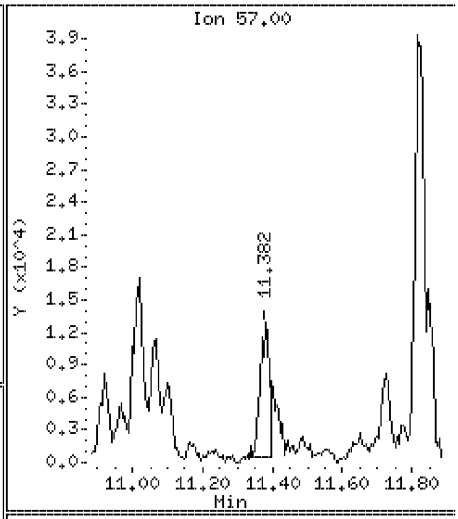
Concentration: 0.279 ppbv

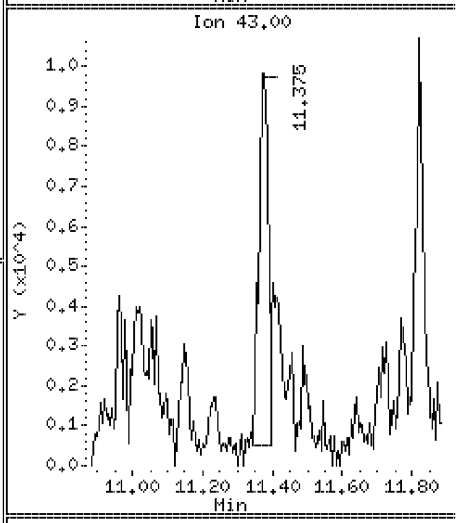


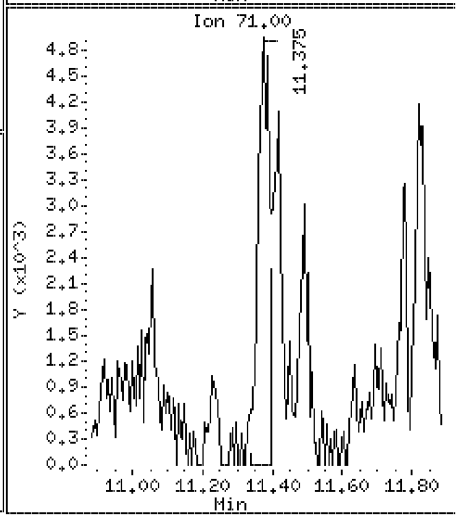












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

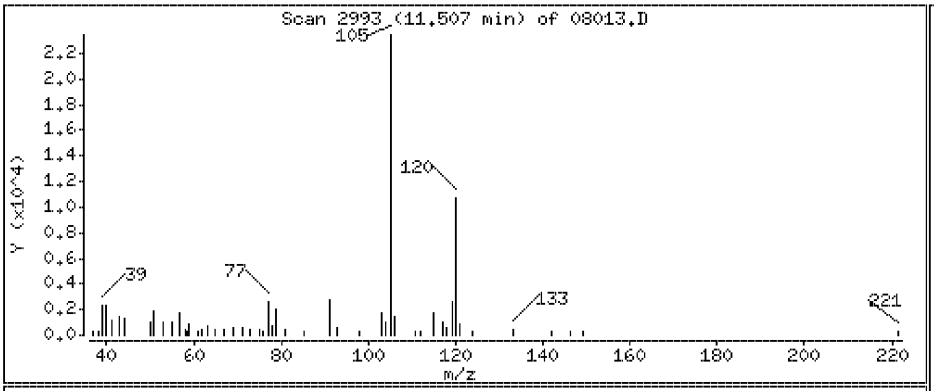
Operator: NCK

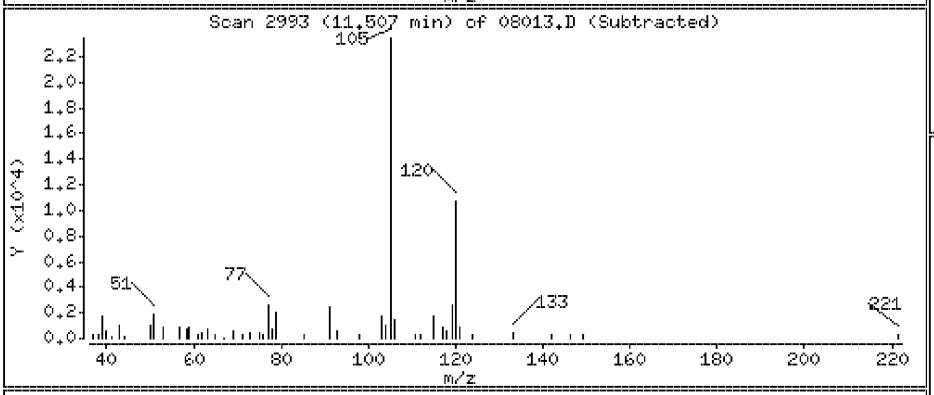
Column phase: J&W DB-5

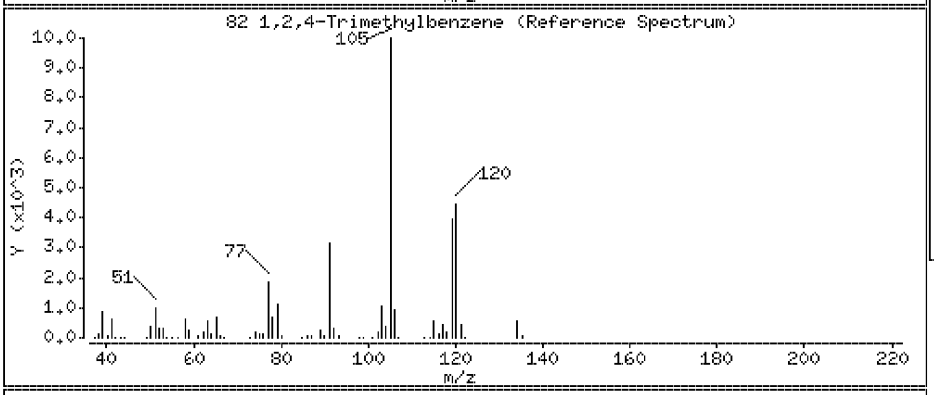
Column diameter: 0.32

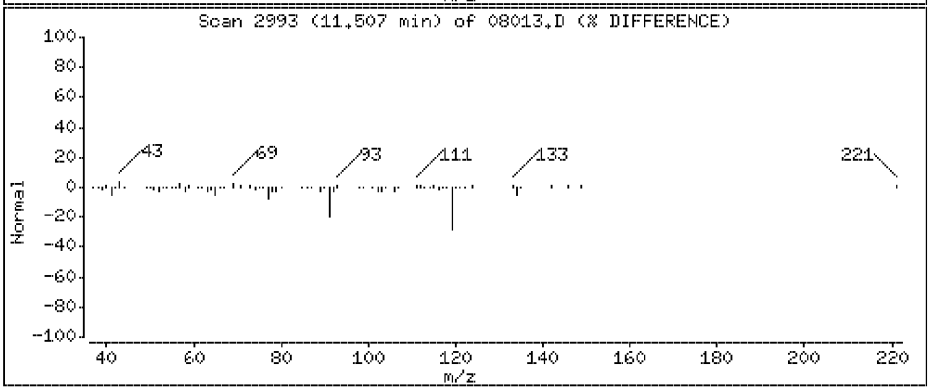
82 1,2,4-Trimethylbenzene

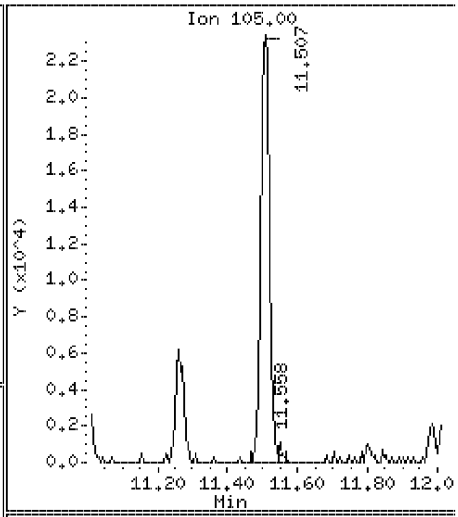
Concentration: 0.516 ppbv

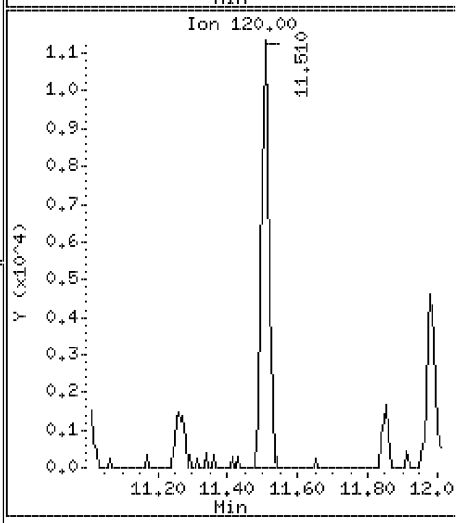












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

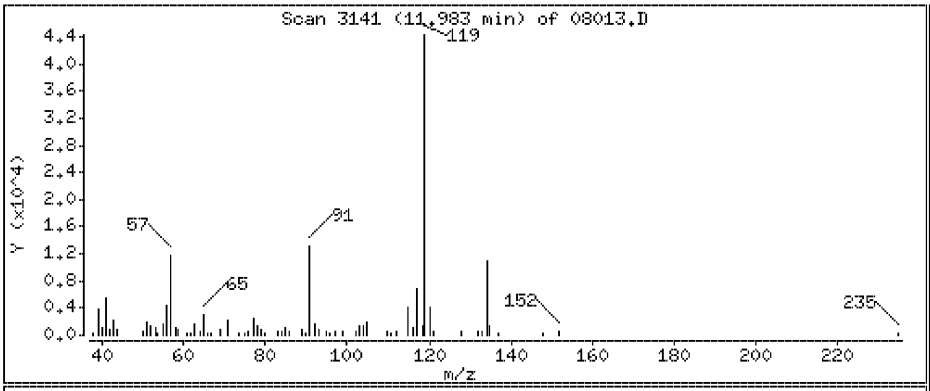
Operator: NCK

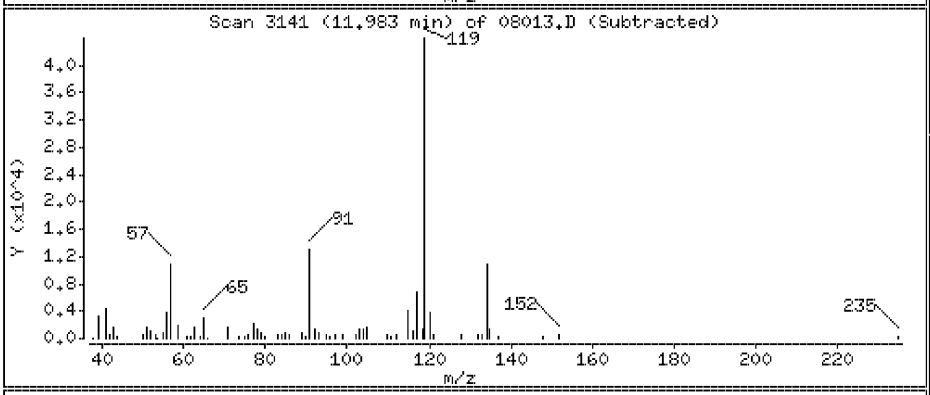
Column phase: J&W DB-5

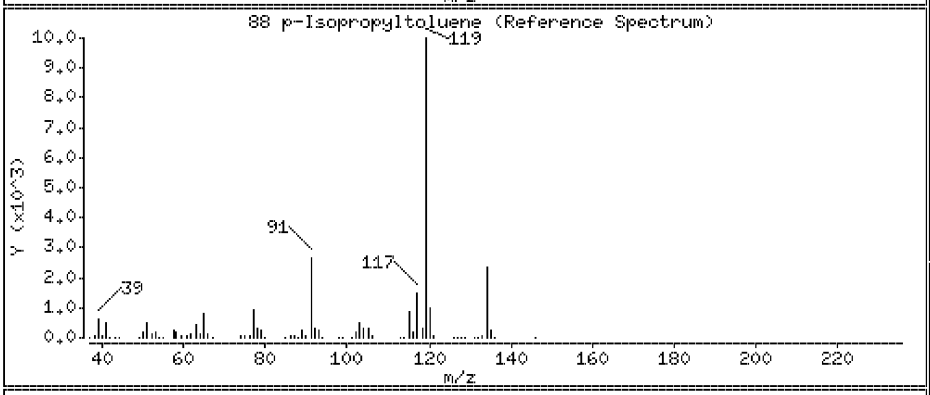
Column diameter: 0.32

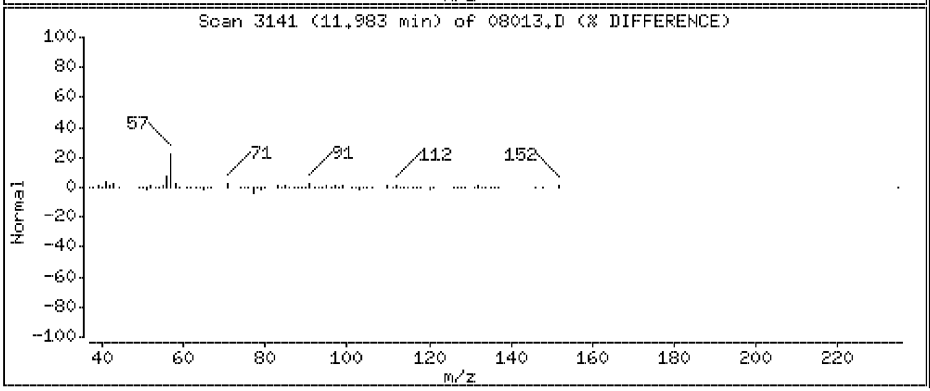
88 p-Isopropyltoluene

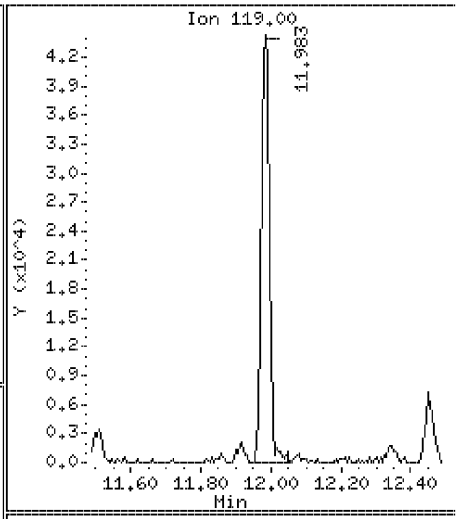
Concentration: 0.232 ppbv

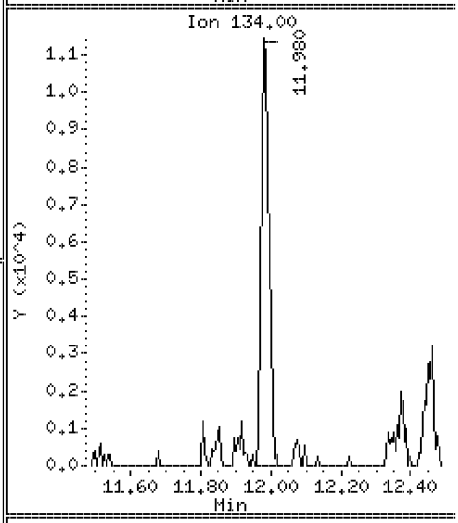


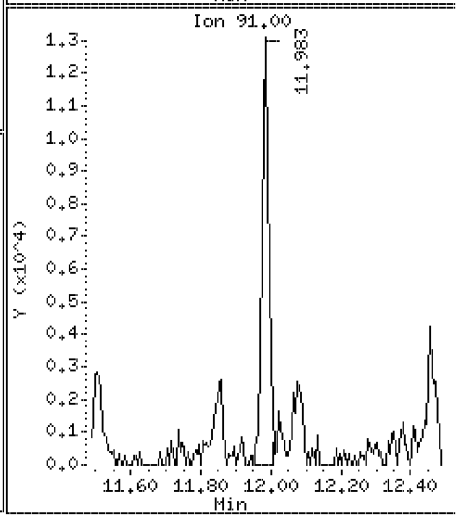












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

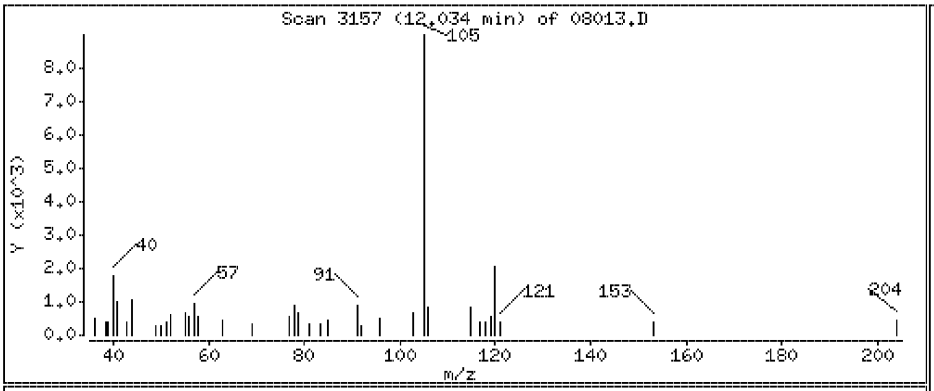
Operator: NCK

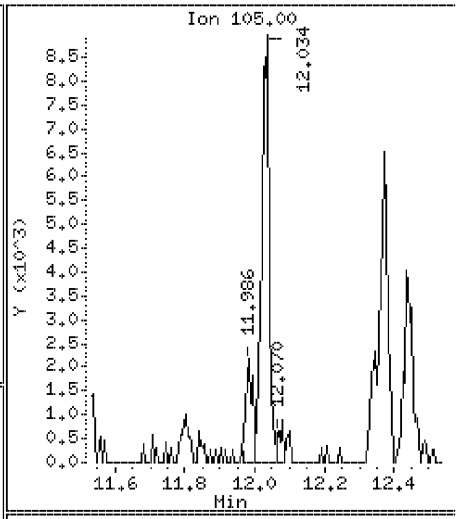
Column phase: J&W DB-5

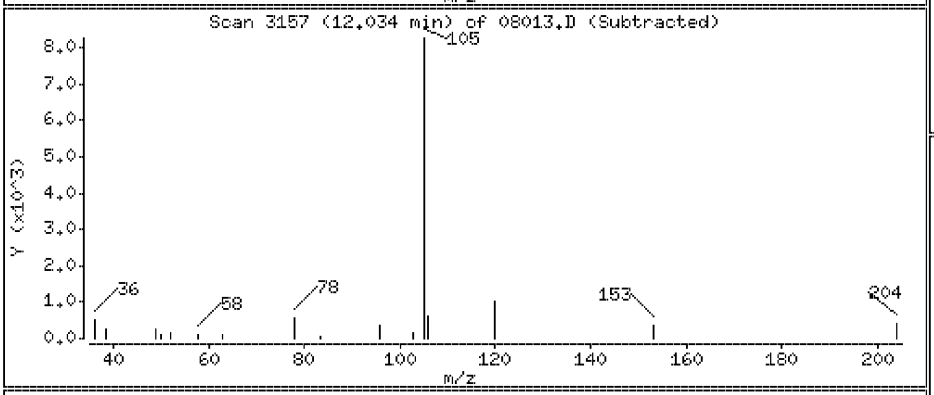
Column diameter: 0.32

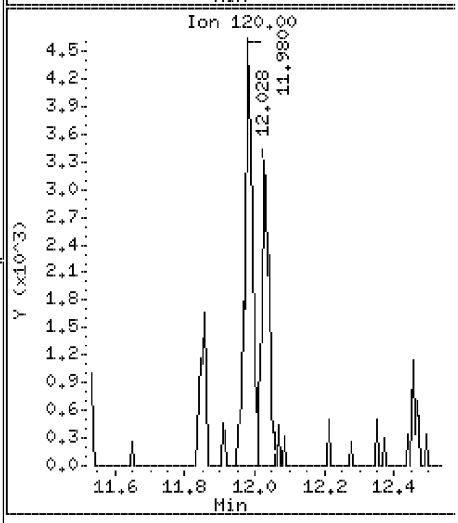
89 1,2,3-Trimethylbenzene

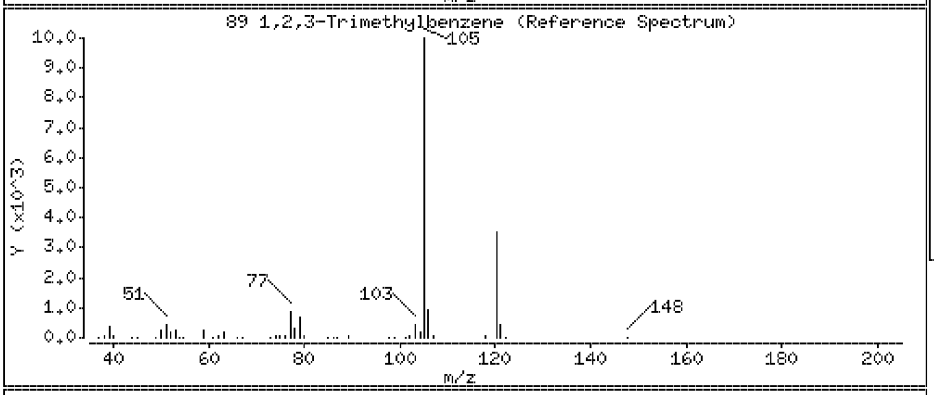
Concentration: 0.342 ppbv

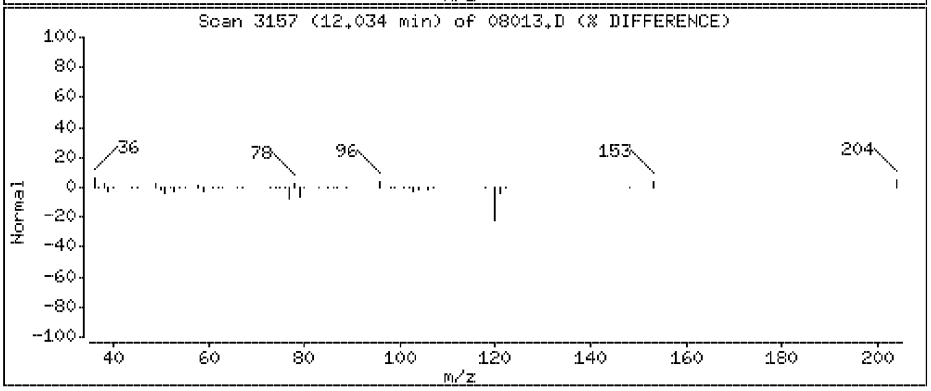












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08013.D

Date : 21-MAR-2017 14:40

Client ID:

Instrument: 10airB.i

Sample Info:

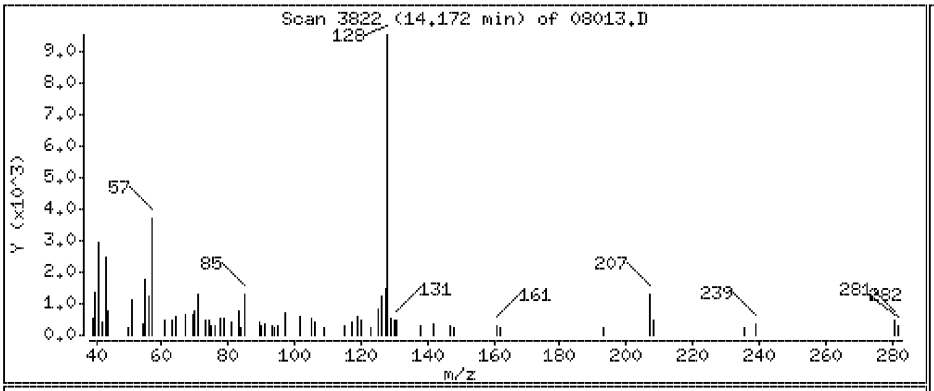
Operator: NCK

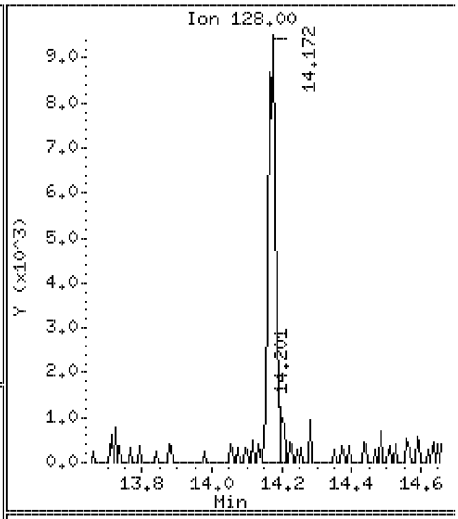
Column phase: J&W DB-5

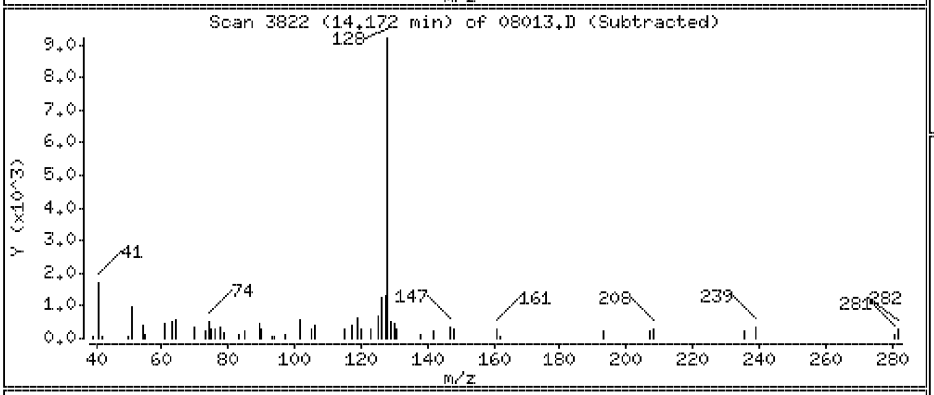
Column diameter: 0.32

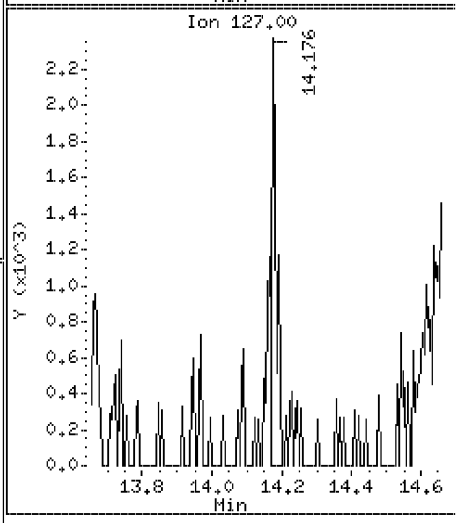
94 Naphthalene

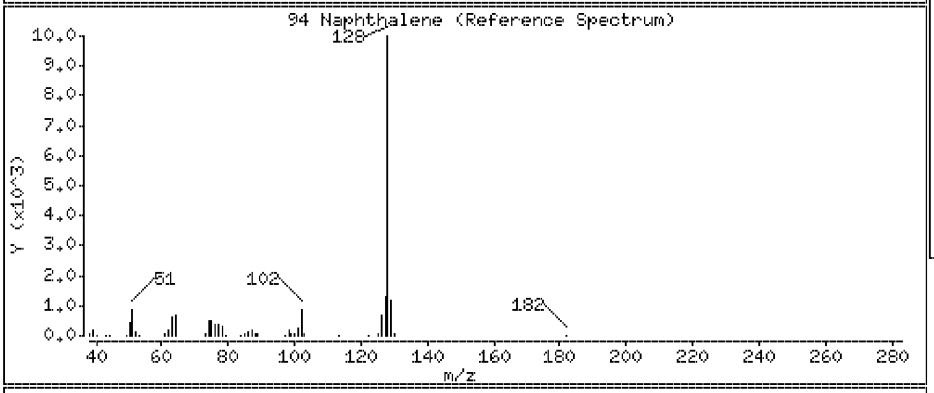
Concentration: 0.890 ppbv

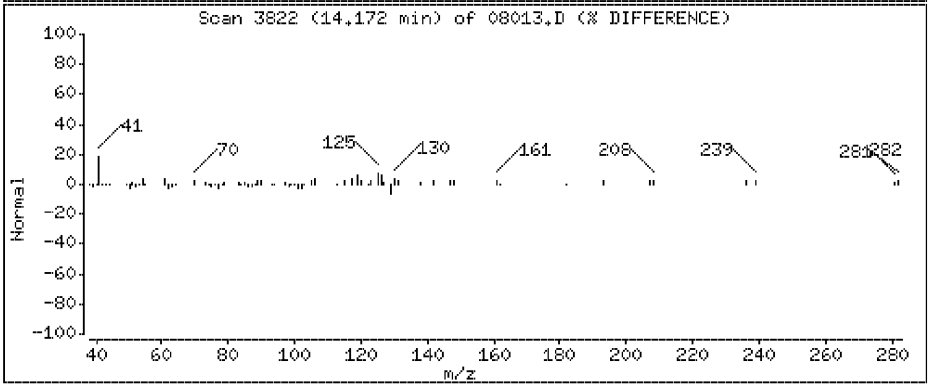






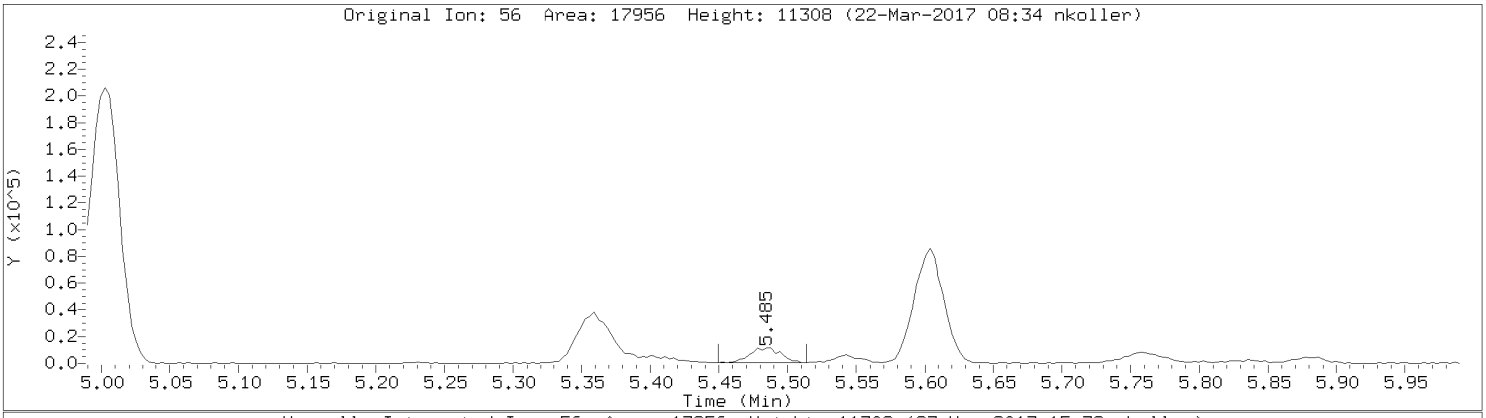


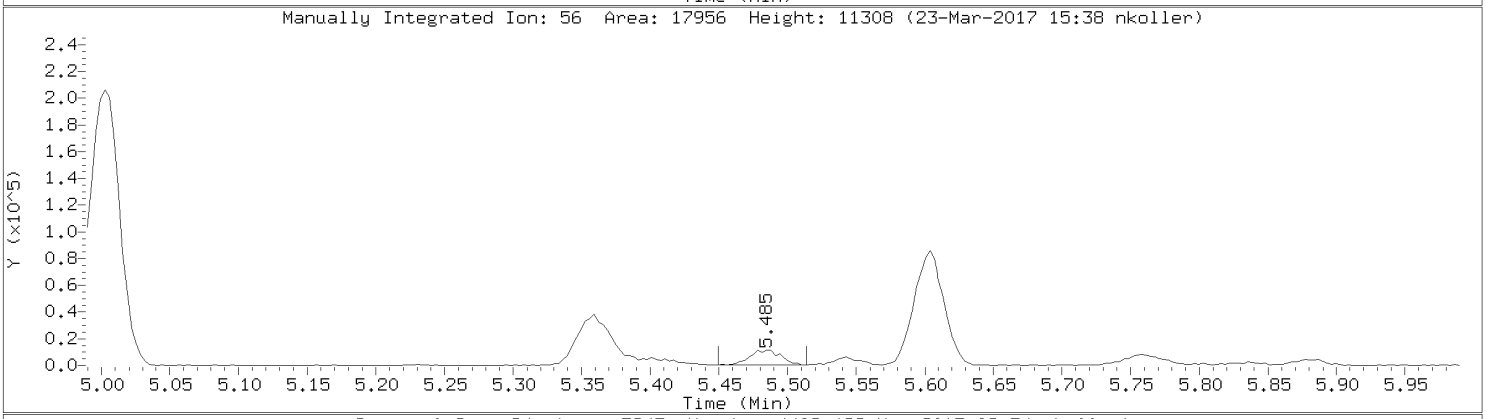


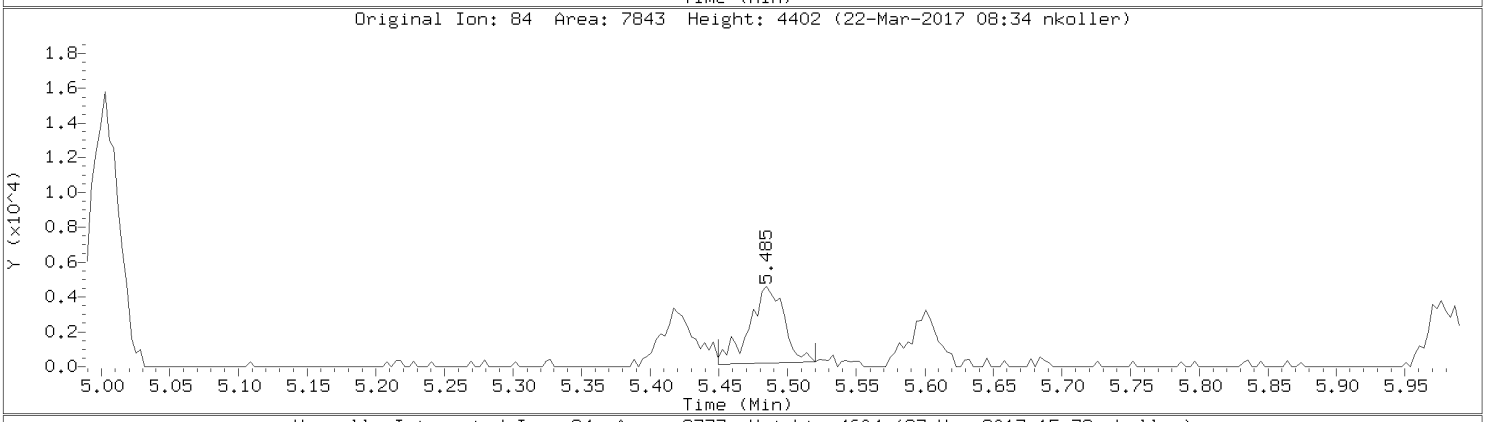


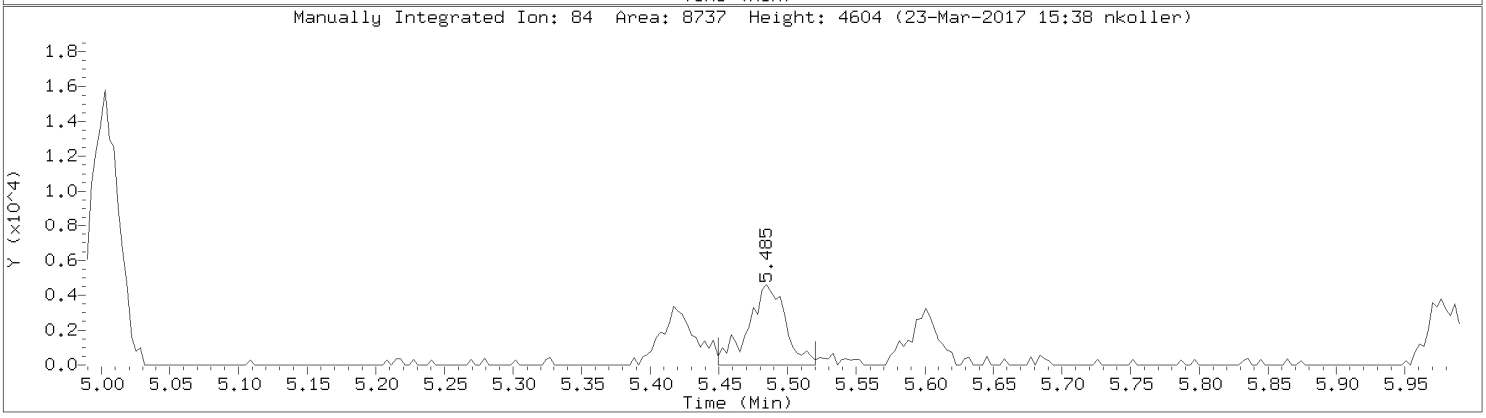
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08013.D
Injection Date: 21-MAR-2017 14:40
Instrument: 10airB.i
Lab Sample ID: 10381035003

Compound: Cyclohexane
CAS Number: 110-82-7

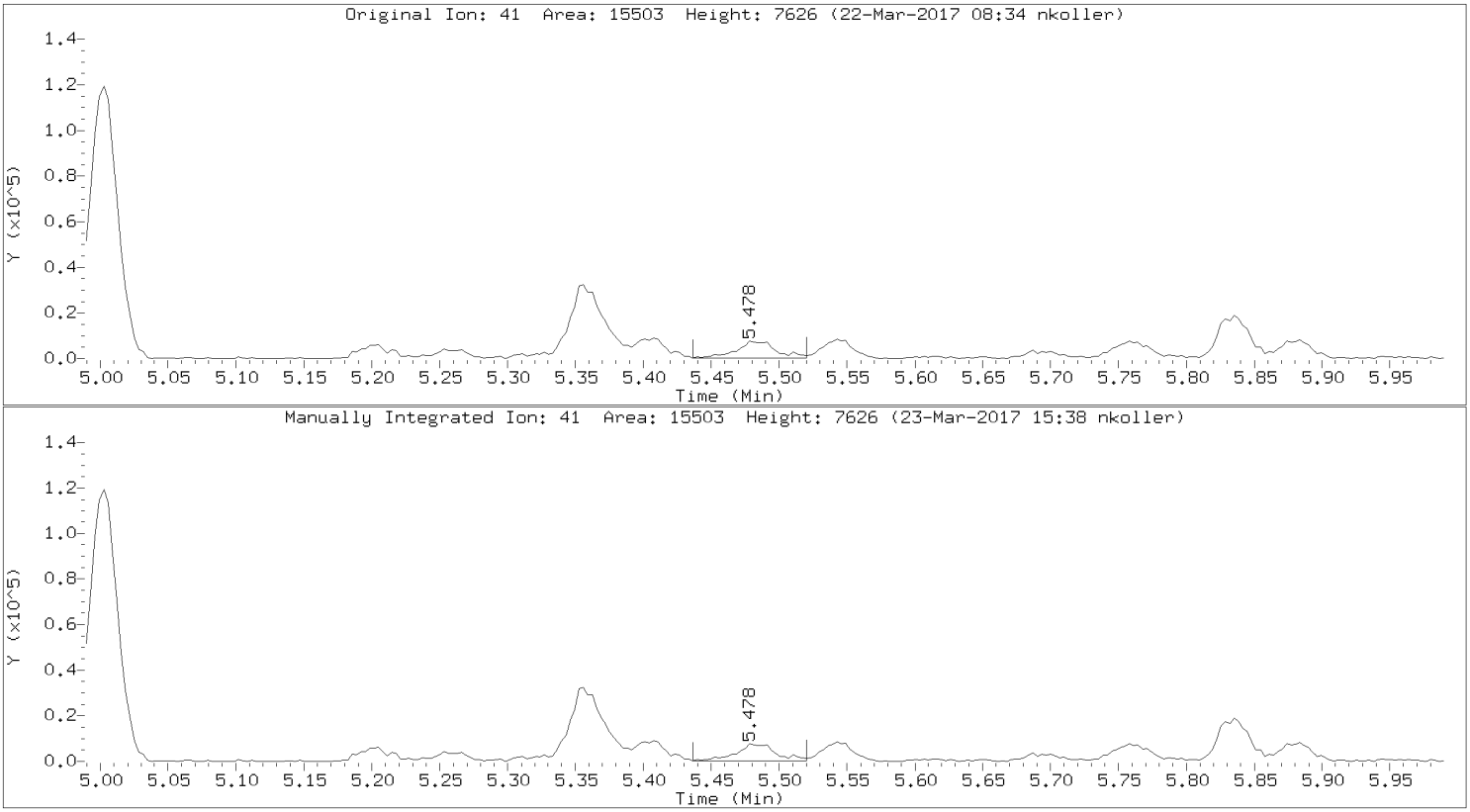






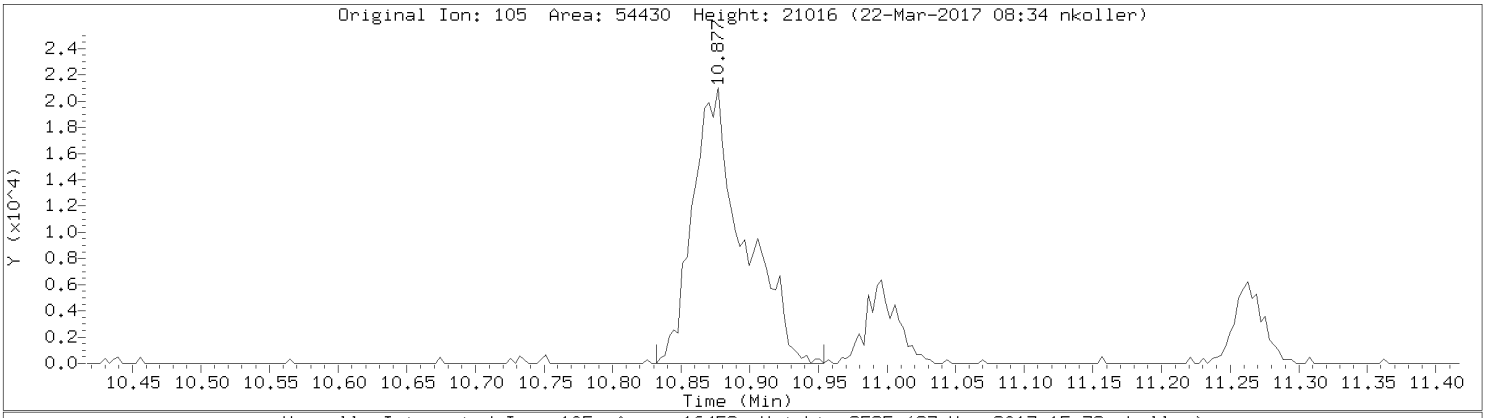


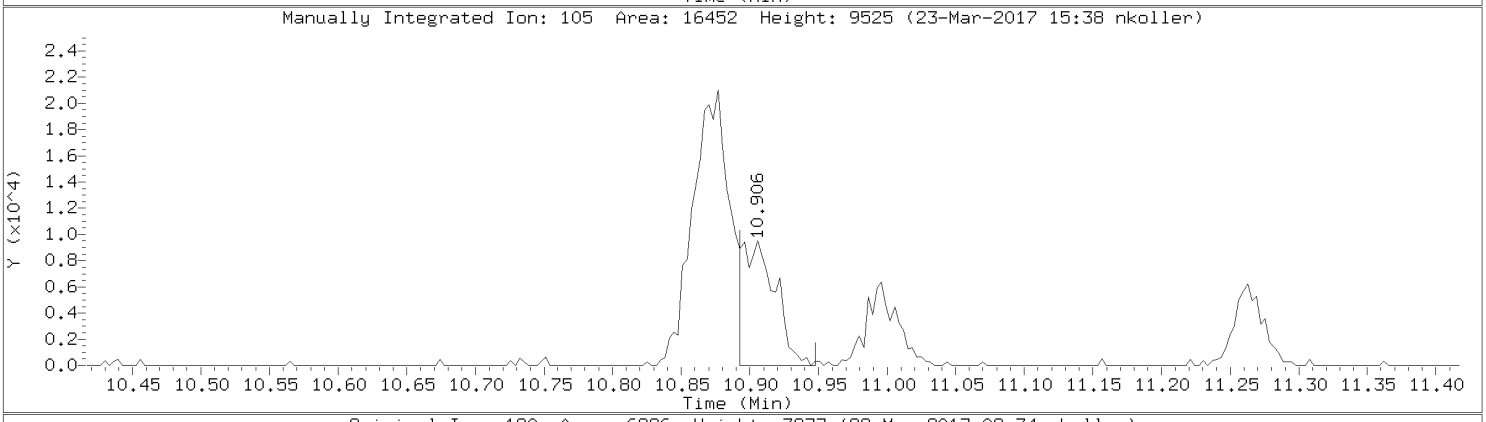
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08013.D
Injection Date: 21-MAR-2017 14:40
Instrument: 10airB.i
Lab Sample ID: 10381035003

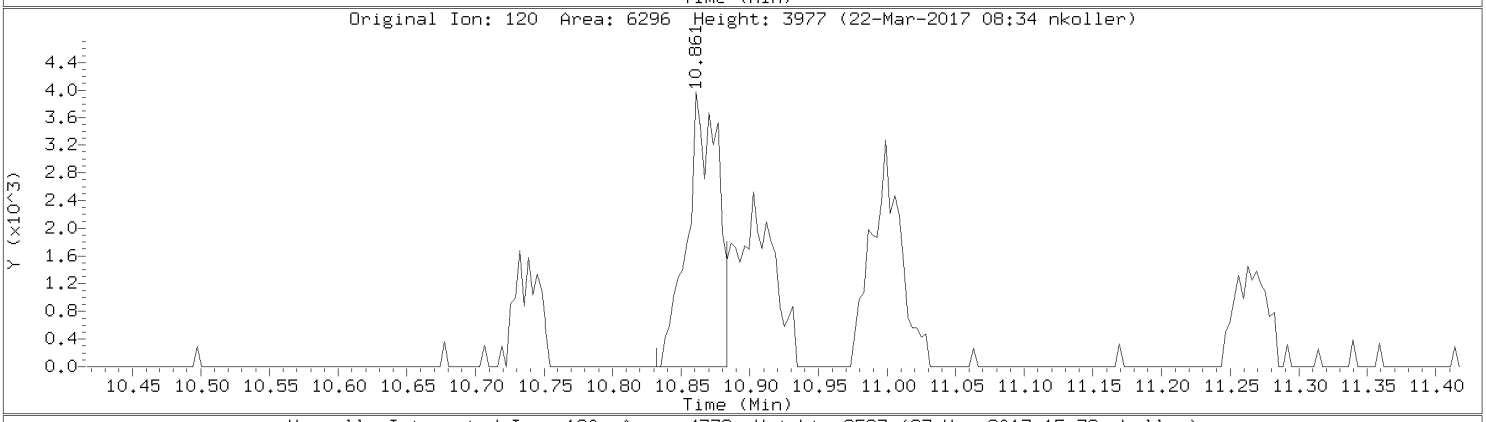


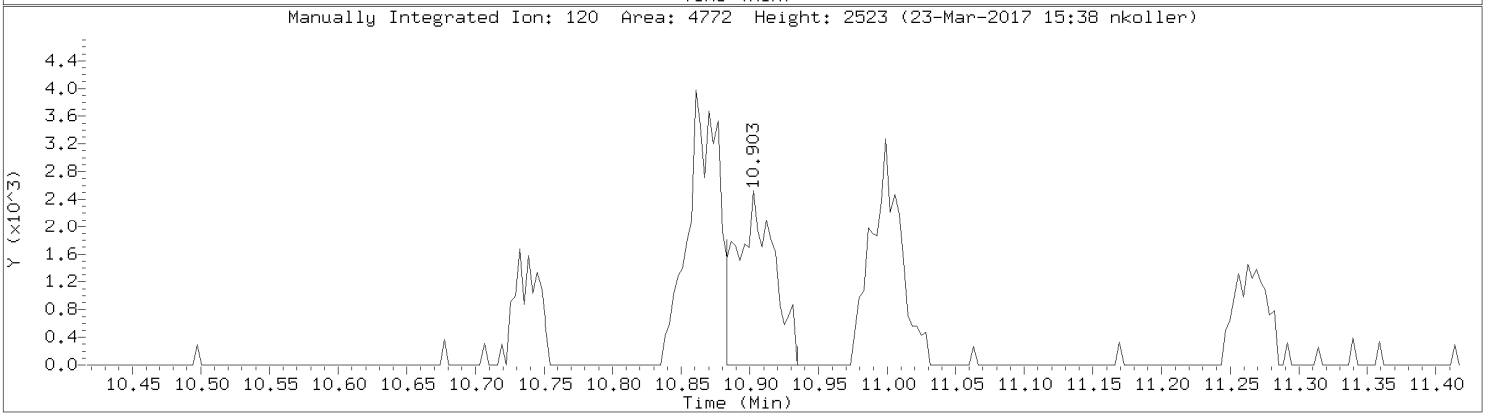
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08013.D
Injection Date: 21-MAR-2017 14:40
Instrument: 10airB.i
Lab Sample ID: 10381035003

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

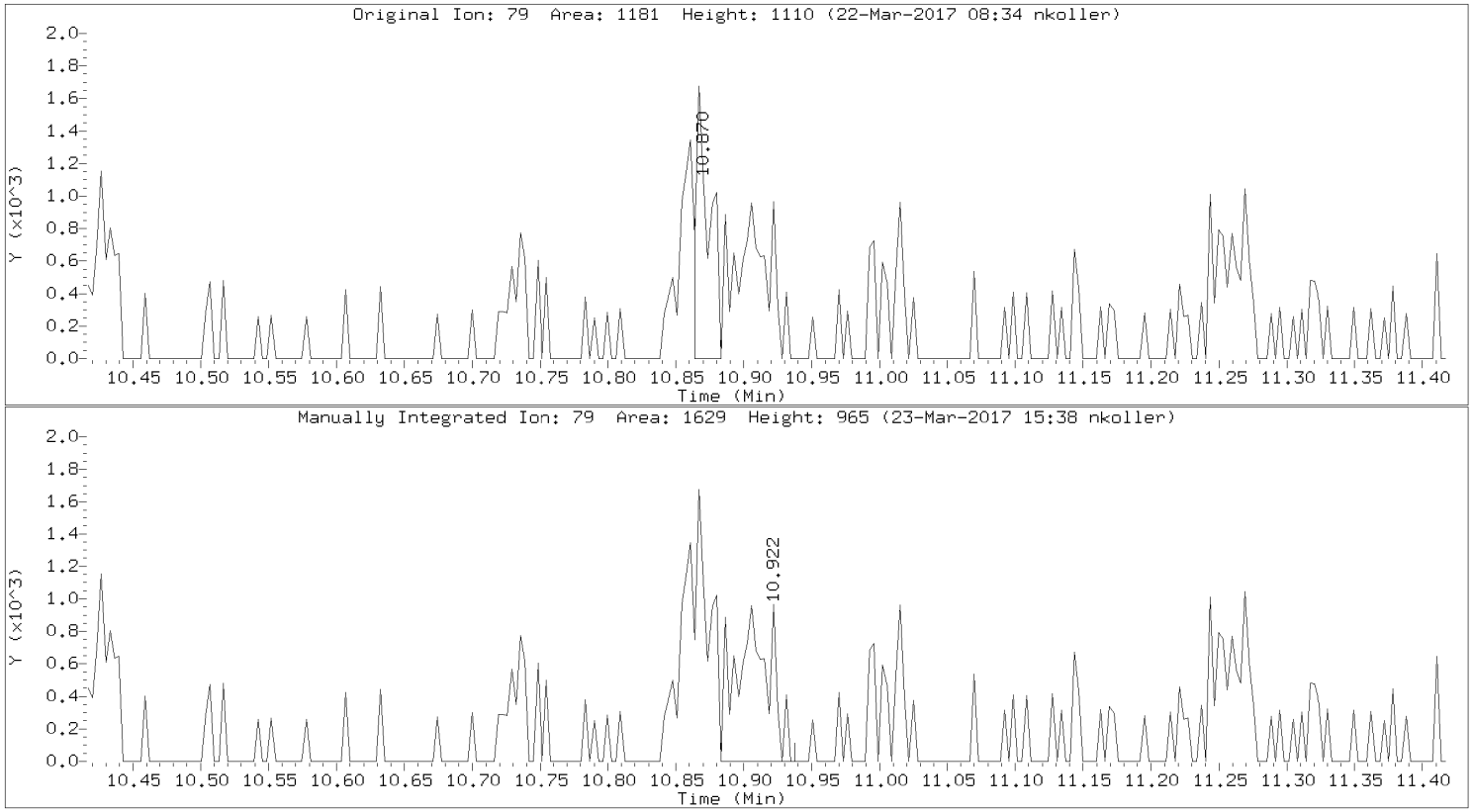








Data File: \\192.168.10.12\chem\10airB.i\032117.b/08013.D
Injection Date: 21-MAR-2017 14:40
Instrument: 10airB.i
Lab Sample ID: 10381035003



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08134.D
Report Date: 23-Mar-2017 10:38

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032217.b\08134.D
Lab Smp Id: 10381035003
Inj Date : 23-MAR-2017 02:43
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Meth Date : 22-Mar-2017 11:20 10airB.i Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 34
Dil Factor: 2.25120
Integrator: HP RTE Compound Sublist: MeCl.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.251	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	25 Methylene chloride	49	3.996	4.012	(0.713)	1186020	14.3704	32.4
	34 n-Hexane	57	4.581	4.587	(0.818)	156159	1.46629	3.30(Q)
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	6210937	10.0000	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	3981420	10.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08134.D
Report Date: 23-Mar-2017 10:38

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08134.D
Lab Smp Id: 10381035003
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 22-MAR-2017
Calibration Time: 09:05
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6210937	-18.72
67 Chlorobenzene - d	5205948	3123569	7288327	3981420	-23.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

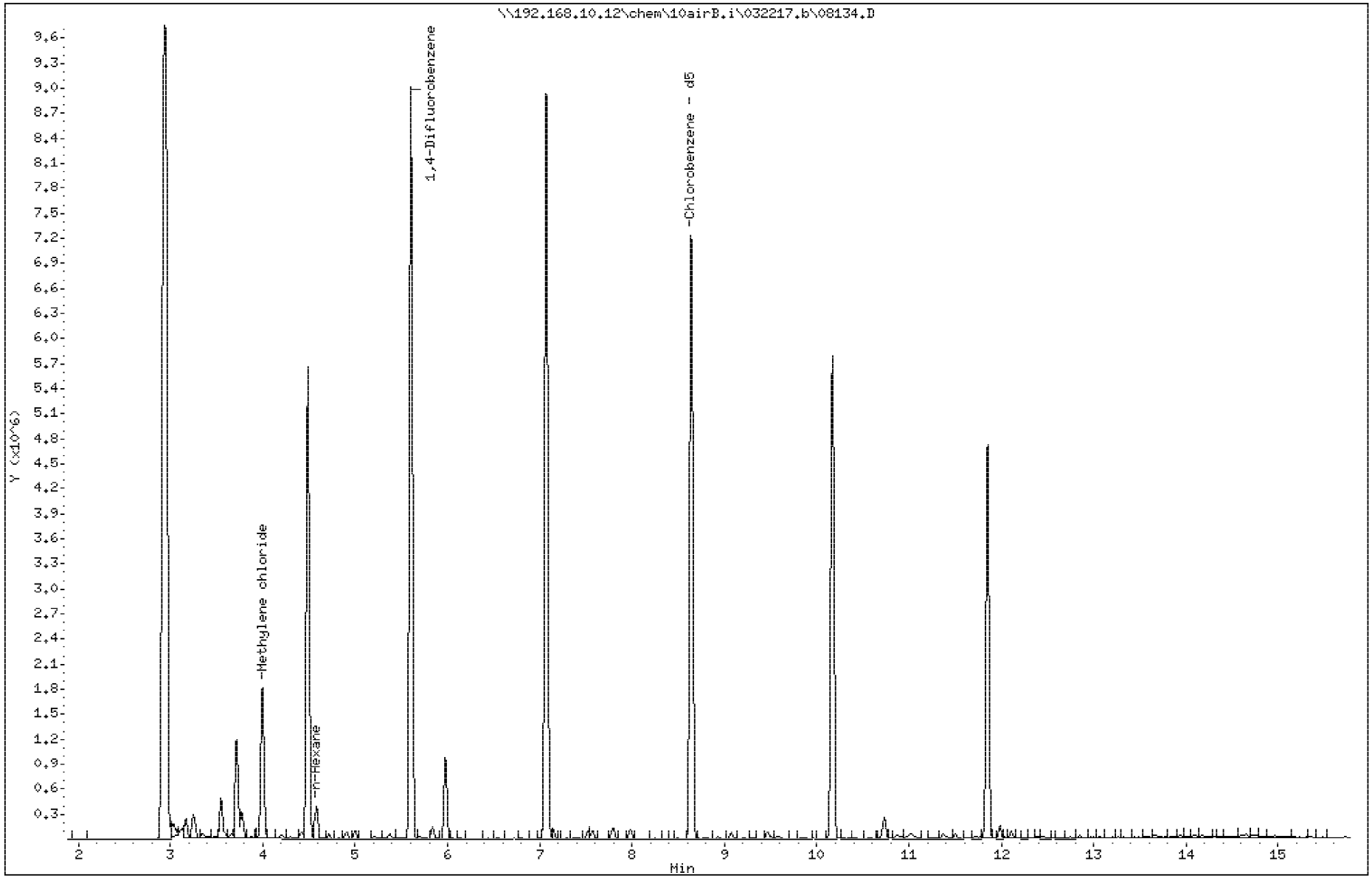
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08134.D
Date : 23-MAR-2017 02:43
Client ID:
Sample Info:

Column phase: J&W DB-5

Instrument: 10airB.i

Operator: NCK
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08134.D

Date : 23-MAR-2017 02:43

Client ID:

Instrument: 10airB.i

Sample Info:

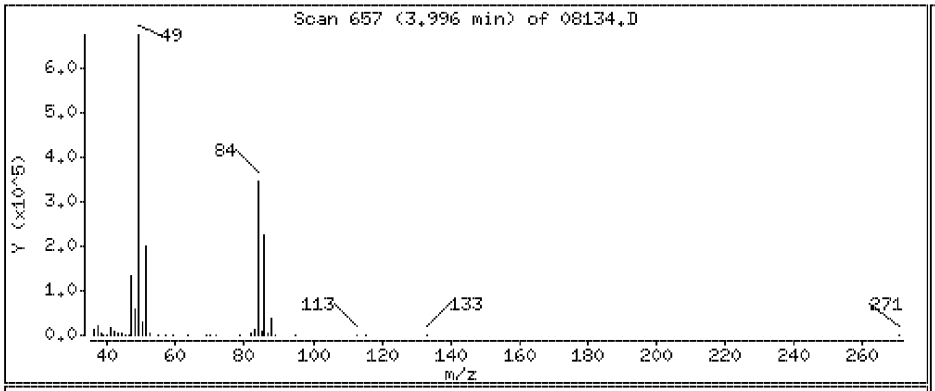
Operator: NCK

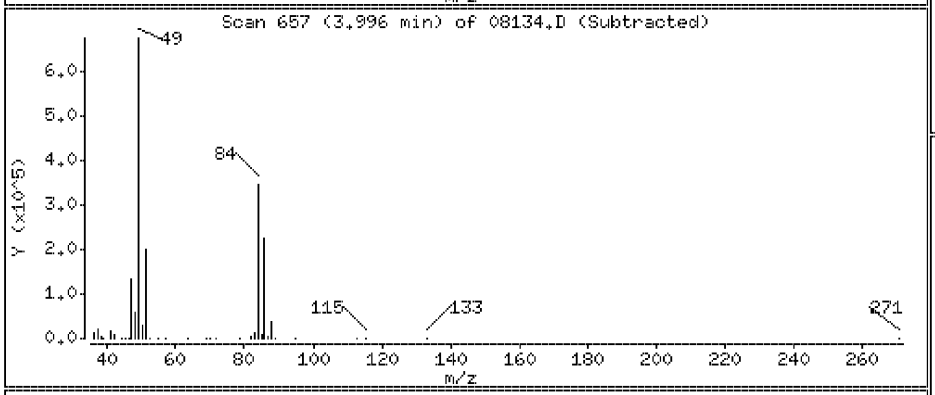
Column phase: J&W DB-5

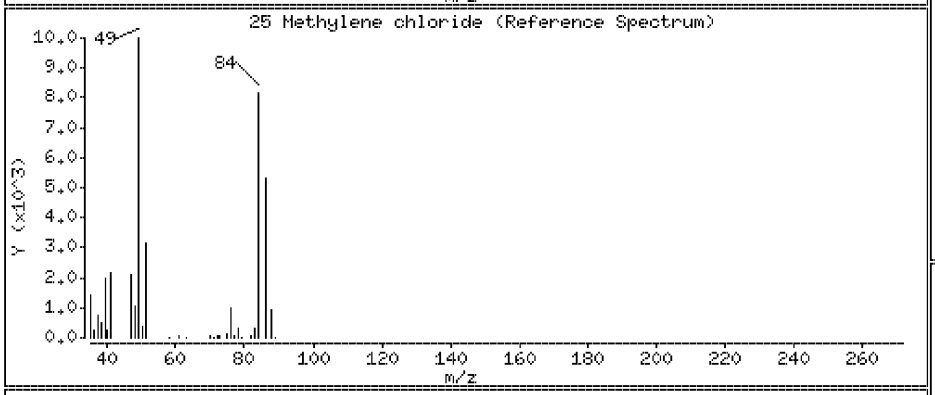
Column diameter: 0.32

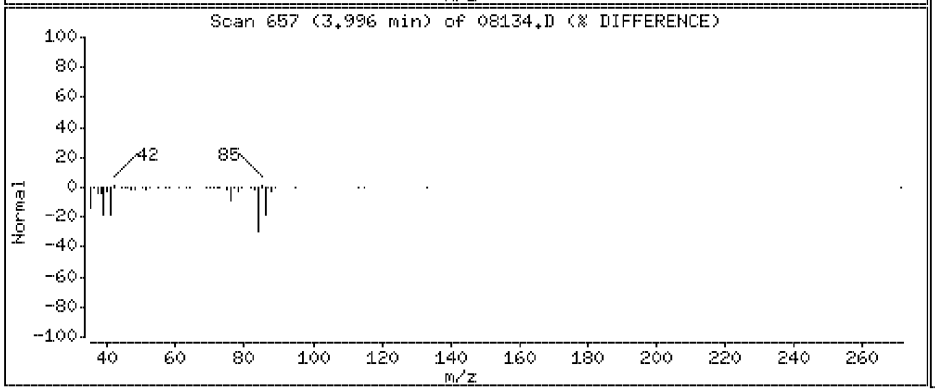
25 Methylene chloride

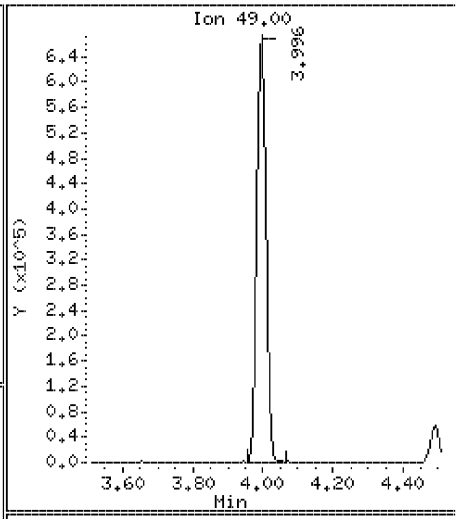
Concentration: 32.4 ppbv

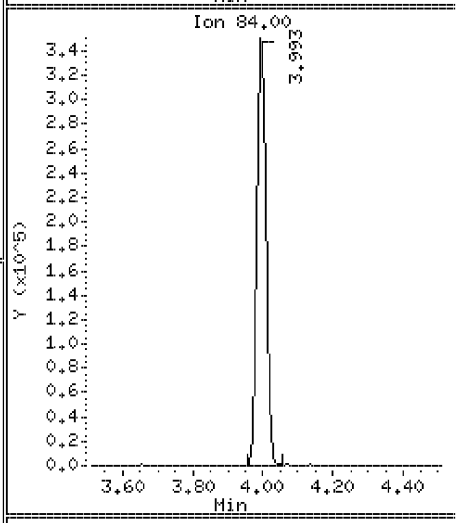


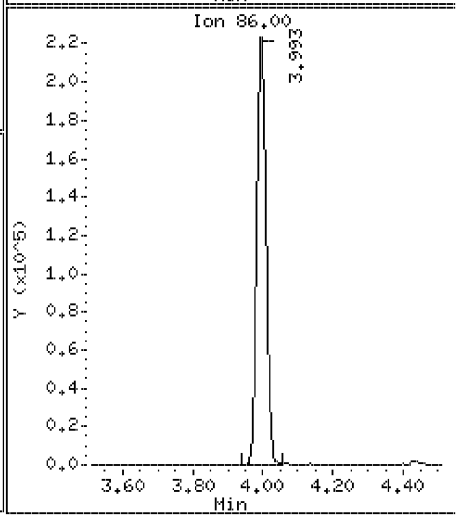












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08134.D

Date : 23-MAR-2017 02:43

Client ID:

Instrument: 10airB.i

Sample Info:

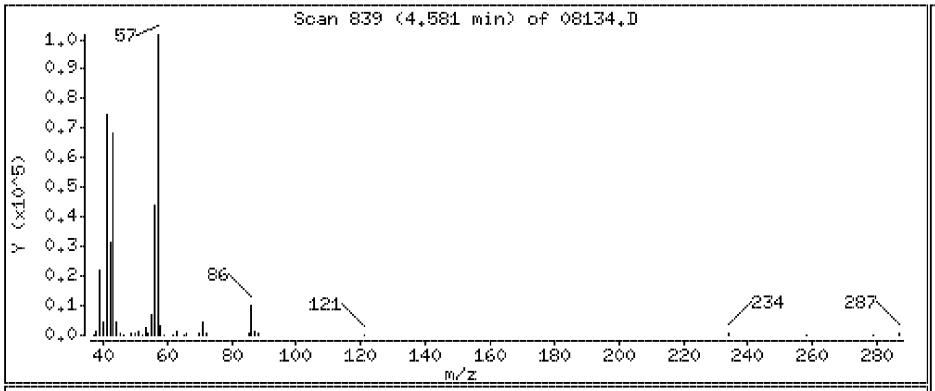
Operator: NCK

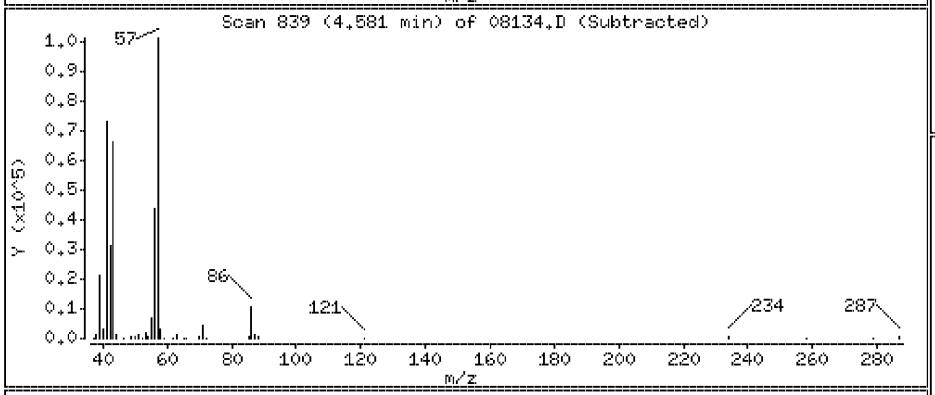
Column phase: J&W DB-5

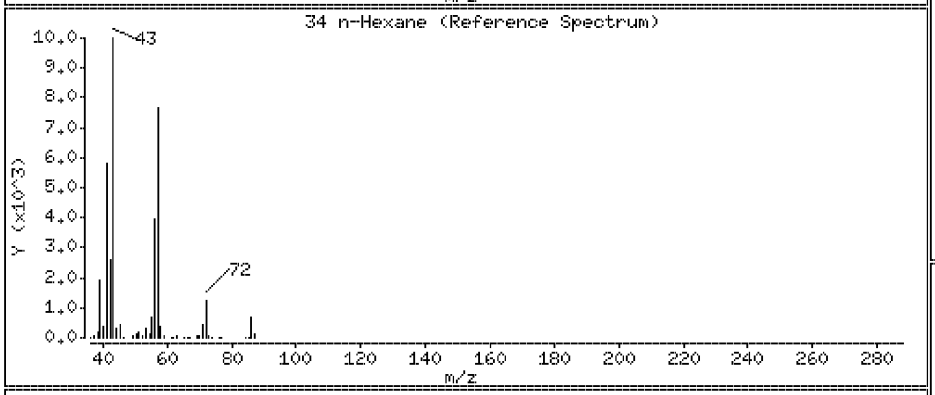
Column diameter: 0.32

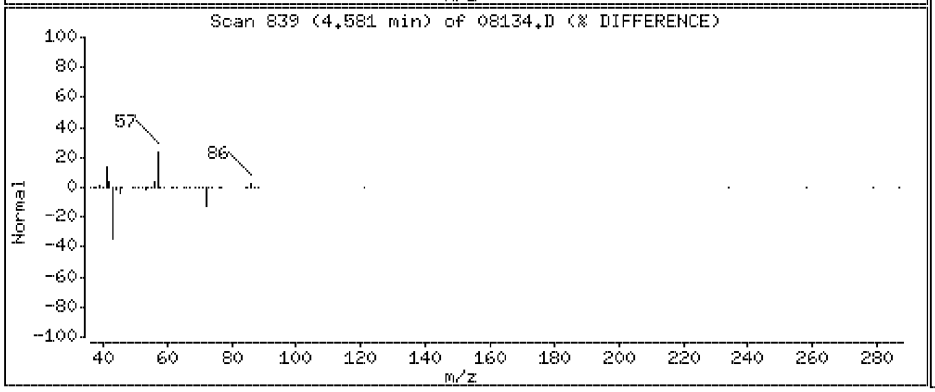
34 n-Hexane

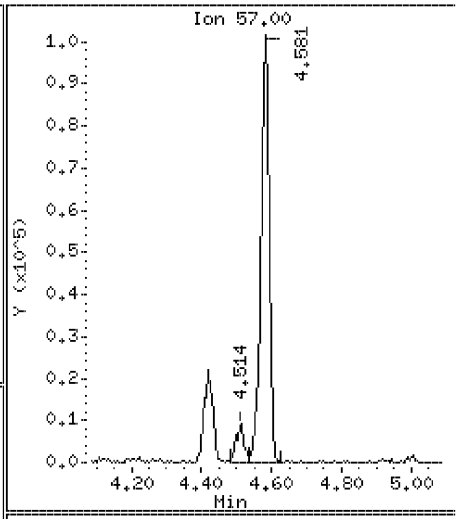
Concentration: 3.30 ppbv

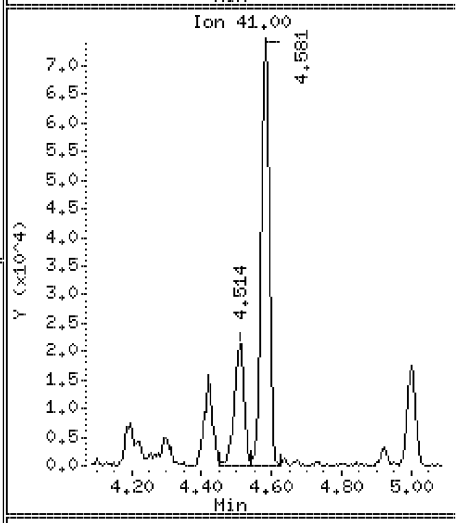


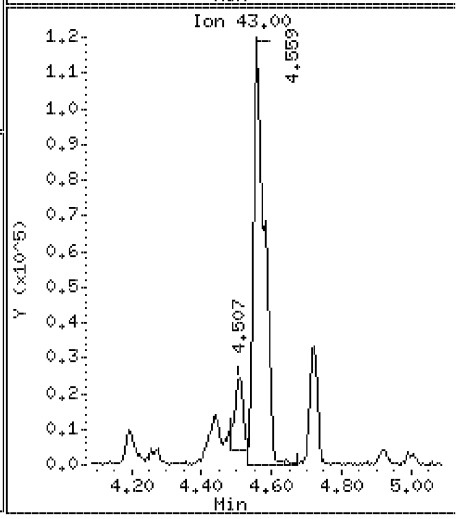












Data File: \\192.168.10.12\chem\10airB.i\032217.b/08134.D
Injection Date: 23-MAR-2017 02:43
Instrument: 10airB.i
Lab Sample ID: 10381035003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_20_20170302 **Lab ID: 10381035003** Collected: 03/02/17 12:25 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 14:40	1634-04-4	
2-Propanol	**16.9**	ug/m3	4.2	0.40	1.68		03/21/17 14:40	67-63-0	
Styrene	**1.3J**	ug/m3	1.5	0.32	1.68		03/21/17 14:40	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 14:40	79-34-5	
Tetrachloroethene	**4.0**	ug/m3	1.2	0.47	1.68		03/21/17 14:40	127-18-4	
Toluene	**8.4**	ug/m3	1.3	0.26	1.68		03/21/17 14:40	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 14:40	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/21/17 14:40	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 14:40	79-00-5	
Trichloroethene	**26.0**	ug/m3	0.92	0.46	1.68		03/21/17 14:40	79-01-6	
Trichlorofluoromethane	**2.8**	ug/m3	1.9	0.22	1.68		03/21/17 14:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.86J**	ug/m3	2.7	0.51	1.68		03/21/17 14:40	76-13-1	
1,2,4-Trimethylbenzene	**2.6**	ug/m3	1.7	0.21	1.68		03/21/17 14:40	95-63-6	
1,3,5-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.31	1.68		03/21/17 14:40	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 14:40	75-01-4	
m&p-Xylene	**3.8**	ug/m3	3.0	1.3	1.68		03/21/17 14:40	179601-23-1	
o-Xylene	**1.2J**	ug/m3	1.5	0.59	1.68		03/21/17 14:40	95-47-6	

Sample: VP-1_30_20170302 **Lab ID: 10381035004** Collected: 03/02/17 12:16 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**18.4**	ug/m3	4.2	1.5	1.75		03/21/17 15:13	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 15:13	107-05-1	
Benzene	**0.52J**	ug/m3	0.57	0.21	1.75		03/21/17 15:13	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 15:13	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 15:13	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 15:13	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 15:13	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 15:13	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 15:13	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 15:13	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 15:13	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 15:13	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 15:13	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/21/17 15:13	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 15:13	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 15:13	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 15:13	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 15:13	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 15:13	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 15:13	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 15:13	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_30_20170302 **Lab ID: 10381035004** Collected: 03/02/17 12:16 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 15:13	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 15:13	106-46-7	
Dichlorodifluoromethane	**1.2J**	ug/m3	4.4	0.84	1.75		03/21/17 15:13	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 15:13	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 15:13	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 15:13	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/21/17 15:13	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 15:13	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 15:13	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 15:13	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 15:13	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 15:13	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 15:13	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 15:13	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 15:13	100-41-4	
4-Ethyltoluene	**1.8**	ug/m3	1.8	0.33	1.75		03/21/17 15:13	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 15:13	87-68-3	
n-Hexane	**17.1**	ug/m3	1.3	0.62	1.75		03/21/17 15:13	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 15:13	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 15:13	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 15:13	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 15:13	108-87-2	
Methylene Chloride	**170**	ug/m3	6.2	0.95	1.75		03/21/17 15:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 15:13	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 15:13	1634-04-4	
2-Propanol	**2.9J**	ug/m3	4.4	0.42	1.75		03/21/17 15:13	67-63-0	
Styrene	**1.2J**	ug/m3	1.5	0.34	1.75		03/21/17 15:13	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 15:13	79-34-5	
Tetrachloroethene	**22.6**	ug/m3	1.2	0.49	1.75		03/21/17 15:13	127-18-4	
Toluene	**14.2**	ug/m3	1.3	0.27	1.75		03/21/17 15:13	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 15:13	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/21/17 15:13	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 15:13	79-00-5	
Trichloroethene	**176**	ug/m3	0.96	0.48	1.75		03/21/17 15:13	79-01-6	
Trichlorofluoromethane	**2.4**	ug/m3	2.0	0.23	1.75		03/21/17 15:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.3J**	ug/m3	2.8	0.53	1.75		03/21/17 15:13	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.22	1.75		03/21/17 15:13	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/21/17 15:13	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 15:13	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.1	1.4	1.75		03/21/17 15:13	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 15:13	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D
Report Date: 23-Mar-2017 15:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08014.D
Lab Smp Id: 10381035004
Inj Date : 21-MAR-2017 15:13
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 14
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.070	(0.546)	65236	0.13330	0.233	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.545	(0.633)	129080	5.62717	9.85	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.584	3.603	(0.640)	39397	0.38493	0.674(Q)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.658	3.677	(0.653)	29267	0.23605	0.413	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.719	3.722	(0.664)	431068	4.35261	7.62	
19	Isopropyl Alcohol	45	3.777	3.764	(0.674)	80012	0.67276	1.18	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.935	3.951	(0.702)	9066	0.09597	0.168	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D
Report Date: 23-Mar-2017 15:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.996	4.005	(0.713)	2239375	27.5041	48.1	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.427	4.388	(0.790)	31810	0.21373	0.374	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.800)	1923611	9.15966	9.16	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.581	4.587	(0.818)	286224	2.72428	4.77(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.722	4.716	(0.843)	19829	0.13415	0.235(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.449	5.465	(0.972)	16059	0.09099	0.159	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	6127235	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.976	5.986	(1.067)	1519675	18.4174	32.2	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.070	7.076	(1.262)	5408352	9.58533	9.59	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.147	7.153	(1.275)	433145	2.11337	3.70	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	168351	1.87629	3.28	
*	67 Chlorobenzene - d5	117	8.639	8.642	(1.000)	3955480	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.076	9.082	(1.051)	28491	0.29927	0.524	
	71 n-Nonane	43	9.468	9.468	(1.096)	50858	0.41737	0.730	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.504	9.507	(1.100)	4164	0.15647	0.274	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D
Report Date: 23-Mar-2017 15:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.880	10.915	(1.259)	12379	0.20284	0.355(QM)	
79	1,3,5-Trimethylbenzene	105	10.992	10.998	(1.272)	3218	0.15431	0.270	
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	8096	0.16845	0.295(M)	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	1778837	9.31919	9.32	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	12.021	12.034	(1.392)	2594	0.16033	0.281(M)	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.166	14.156	(1.640)	2960	0.44986	0.787	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D
Report Date: 23-Mar-2017 15:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08014.D
Lab Smp Id: 10381035004
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

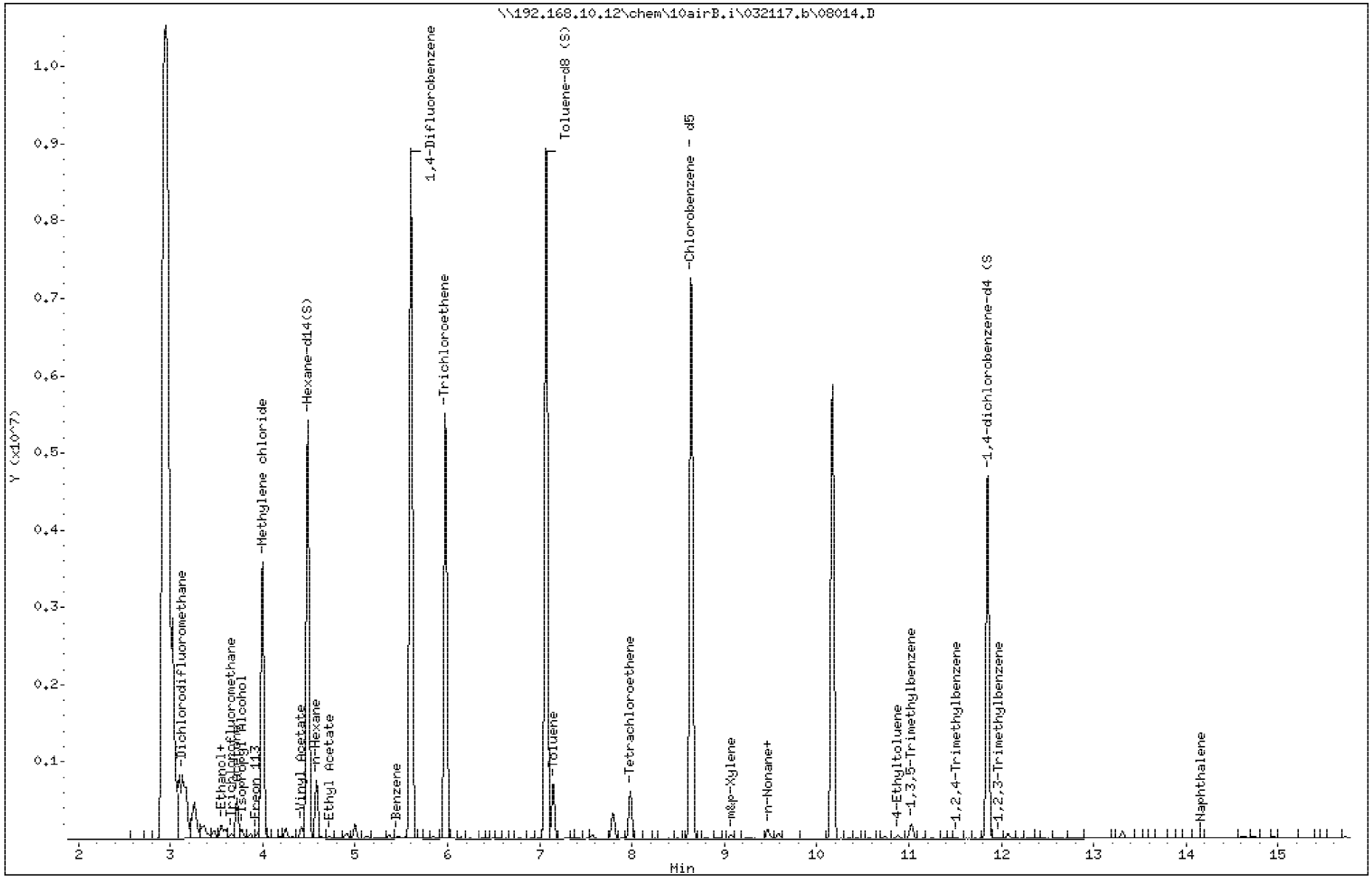
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6127235	-19.81
67 Chlorobenzene - d	5205948	3123569	7288327	3955480	-24.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D
Date : 21-MAR-2017 15:13
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

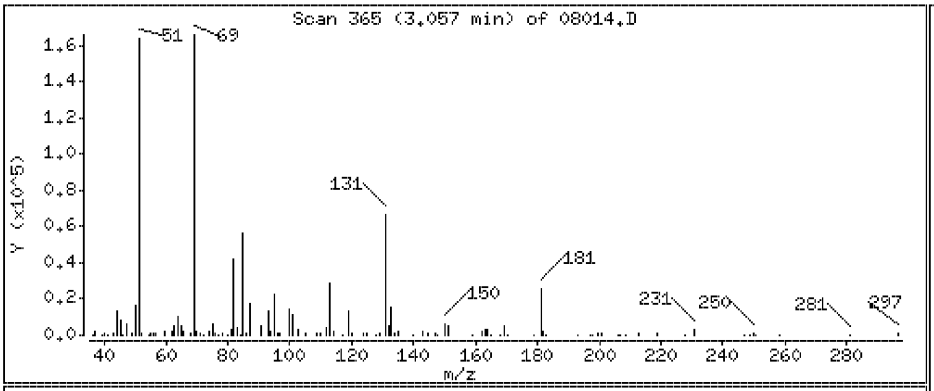
Operator: NCK

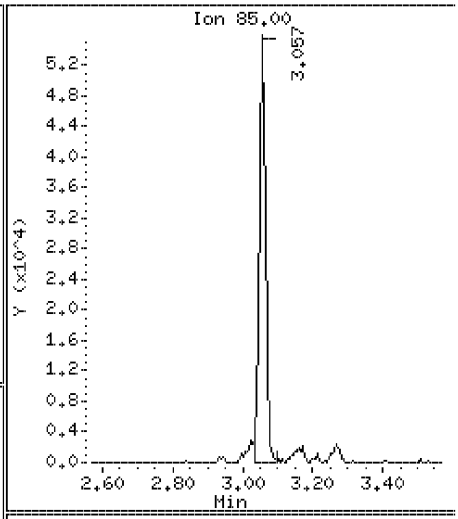
Column phase: J&W DB-5

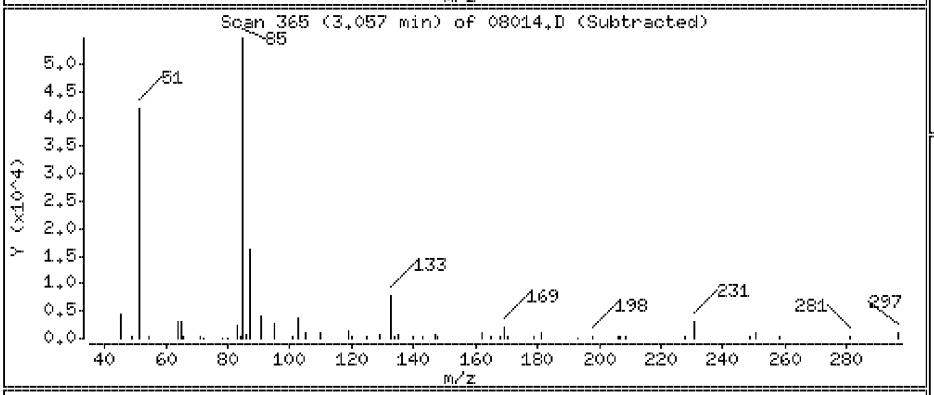
Column diameter: 0.32

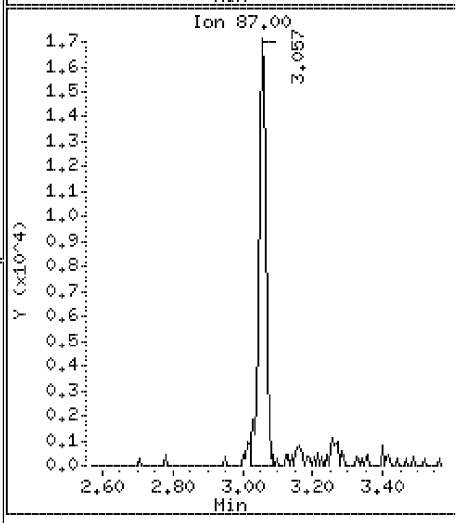
5 Dichlorodifluoromethane

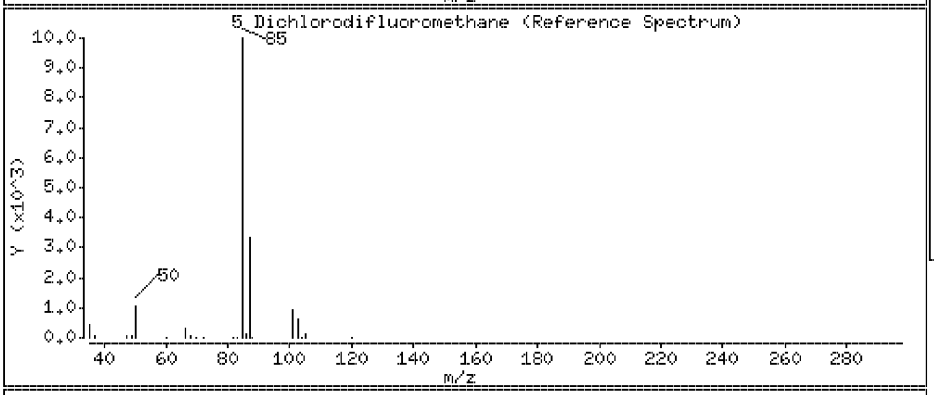
Concentration: 0.233 ppbv

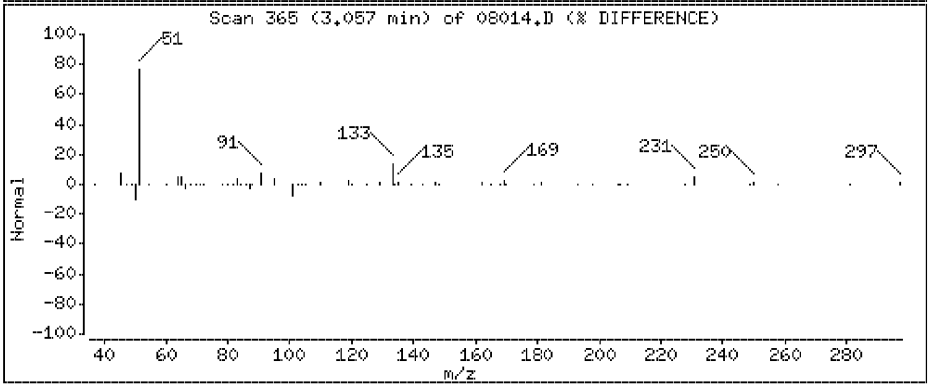












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

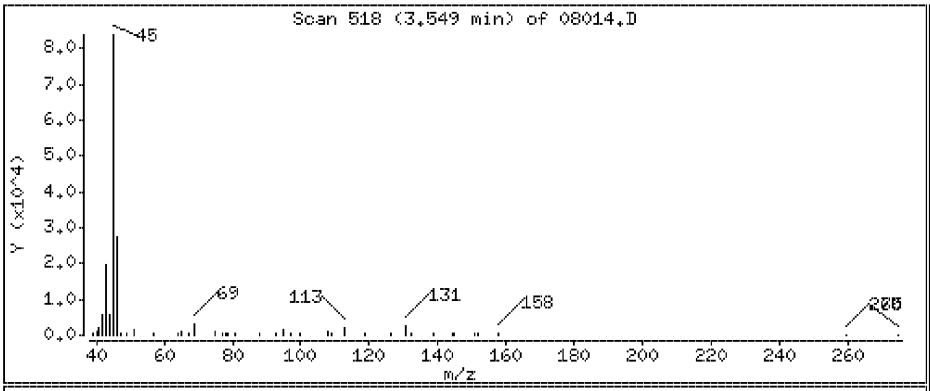
Operator: NCK

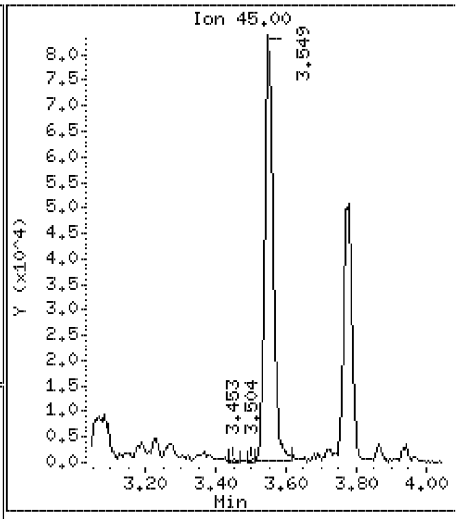
Column phase: J&W DB-5

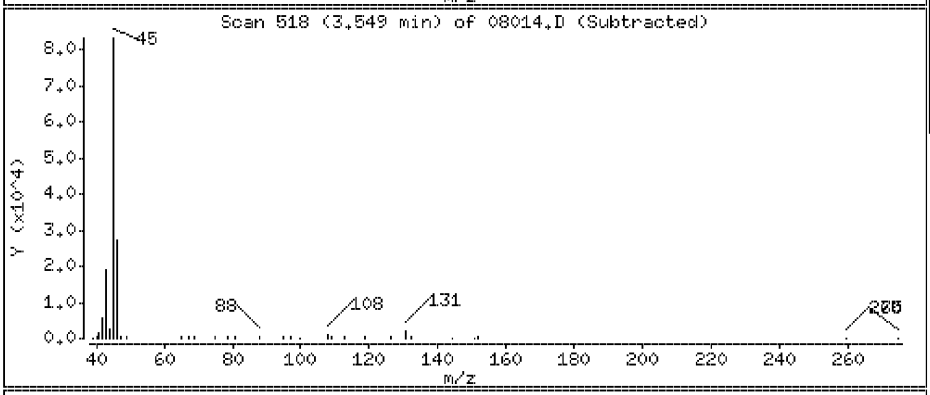
Column diameter: 0.32

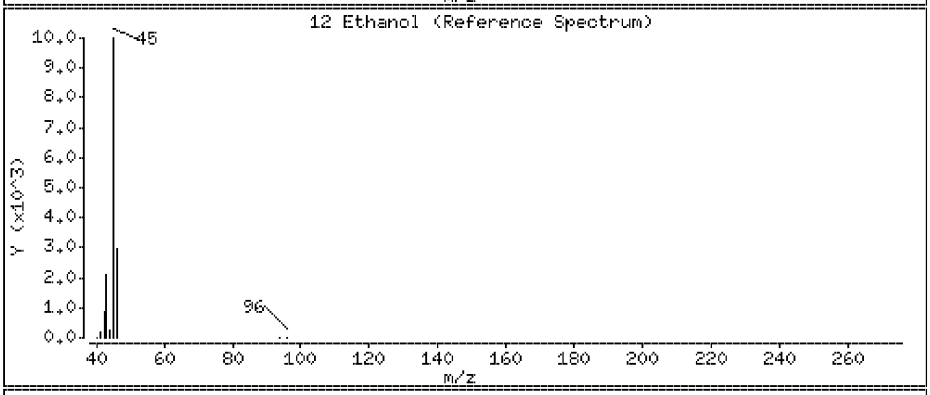
12 Ethanol

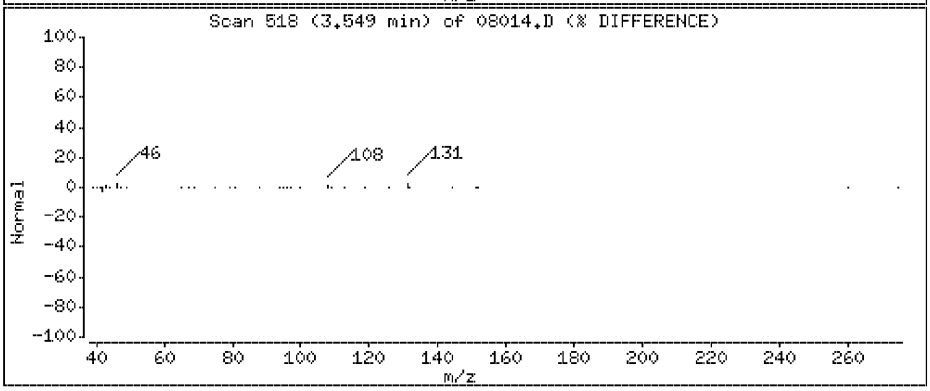
Concentration: 9.85 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

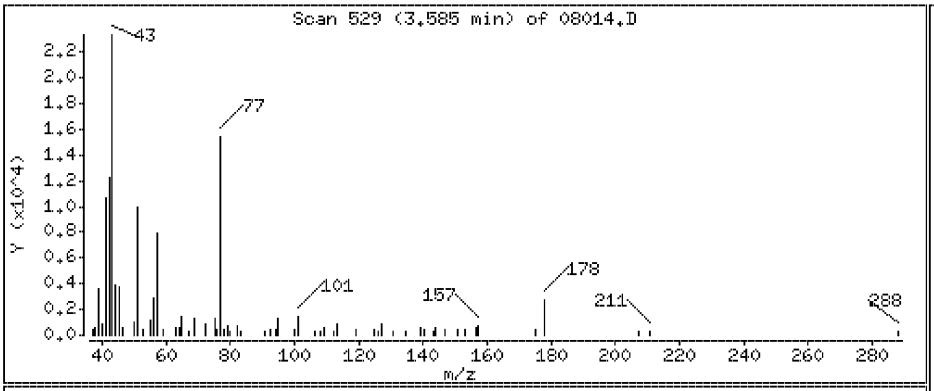
Operator: NCK

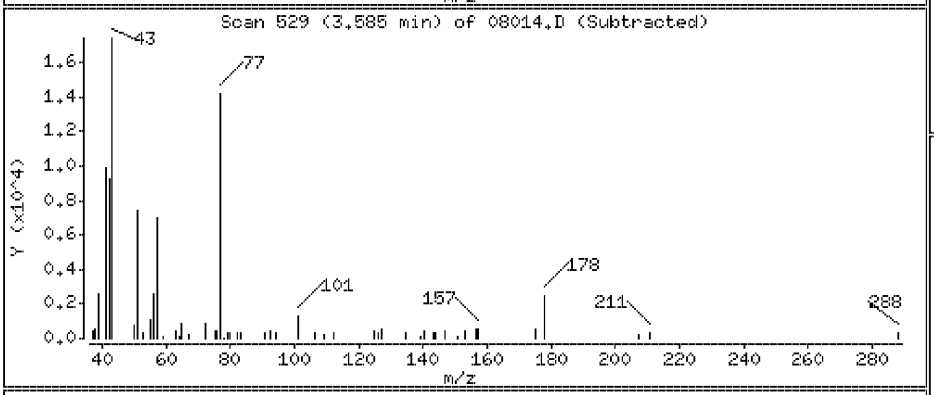
Column phase: J&W DB-5

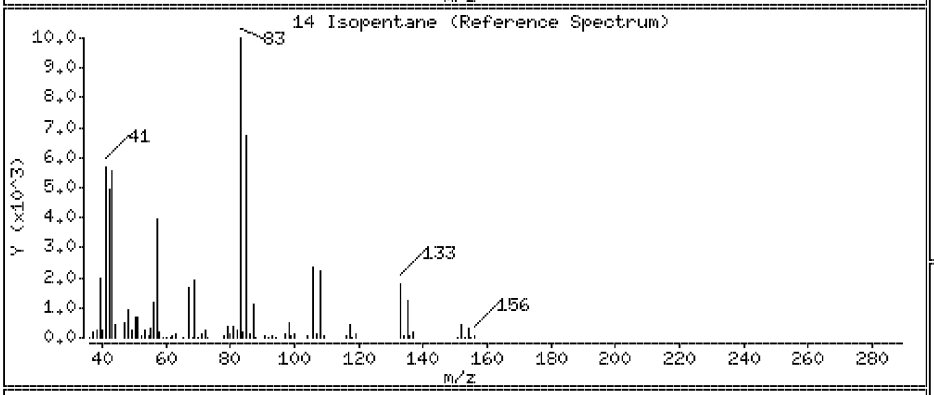
Column diameter: 0.32

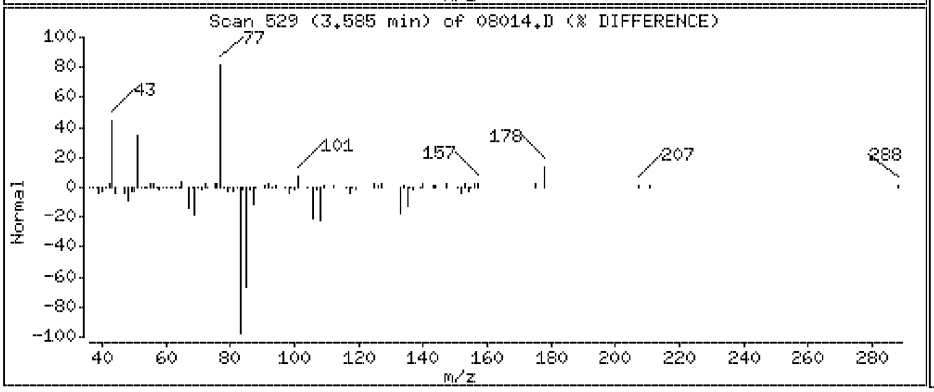
14 Isopentane

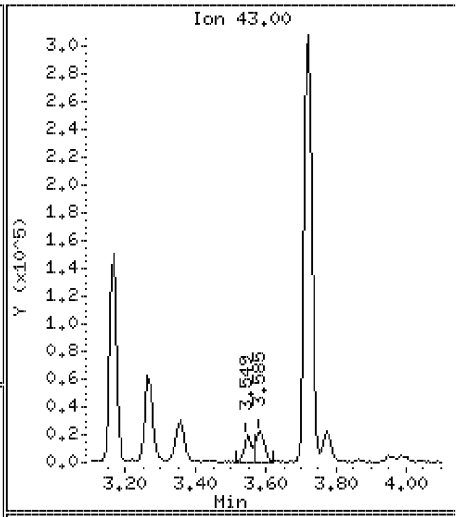
Concentration: 0.674 ppbv

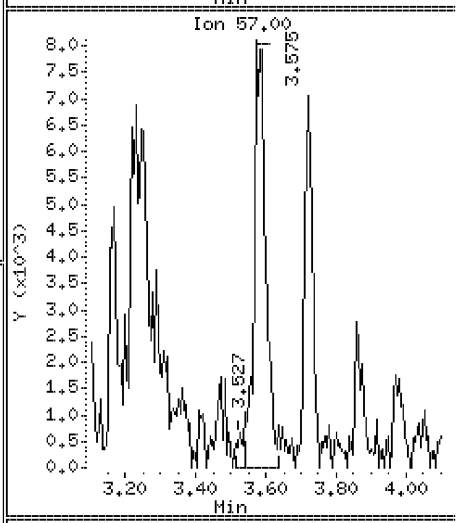


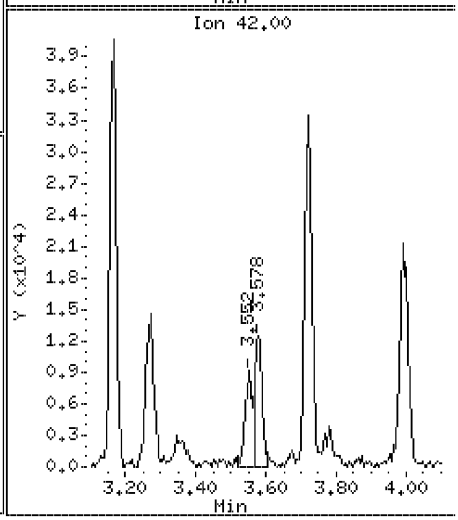












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

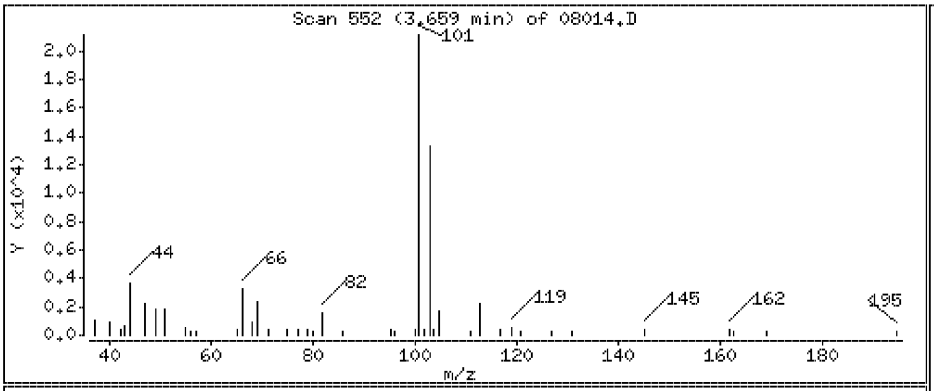
Operator: NCK

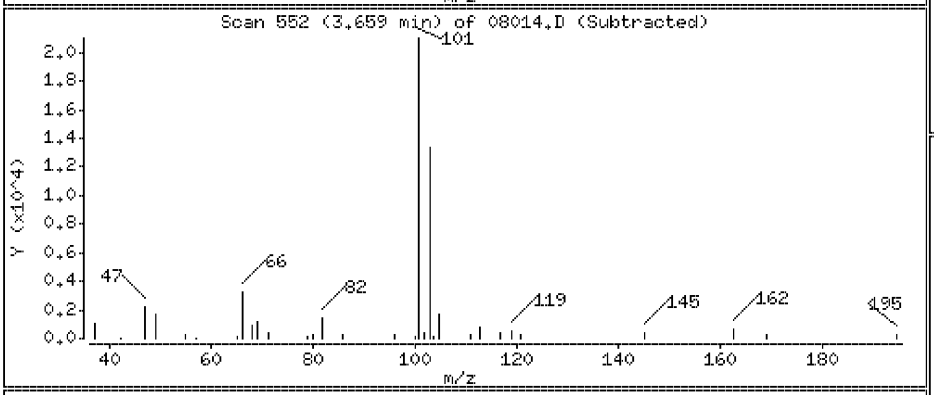
Column phase: J&W DB-5

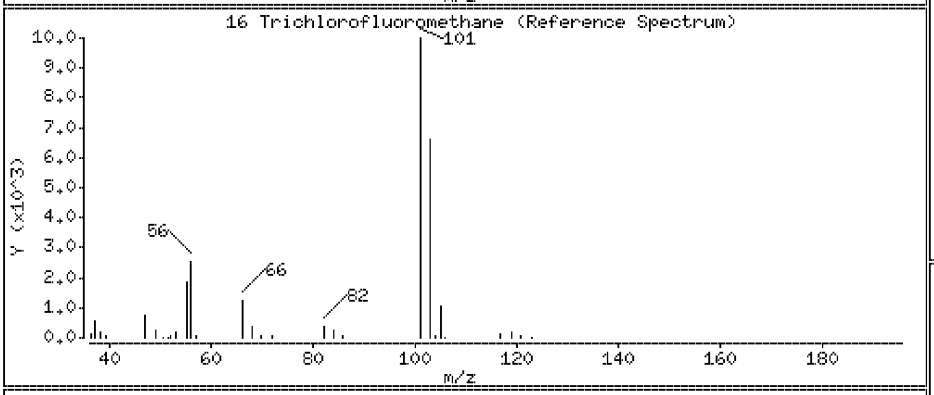
Column diameter: 0.32

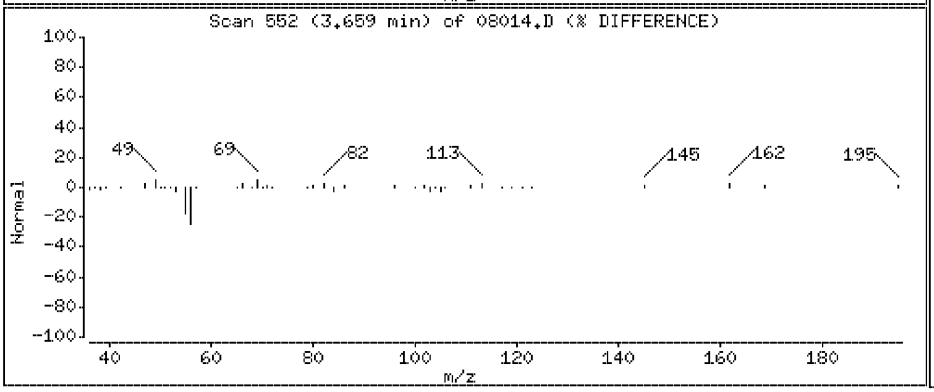
16 Trichlorofluoromethane

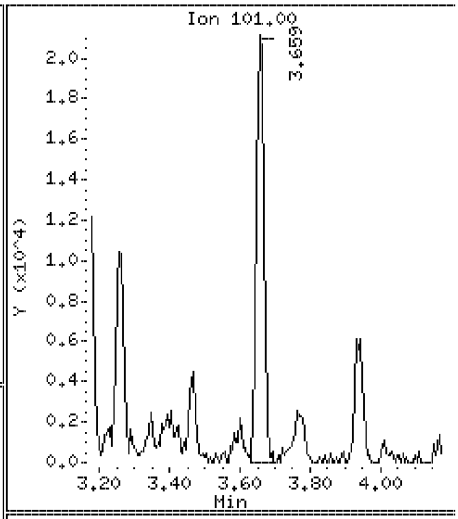
Concentration: 0.413 ppbv

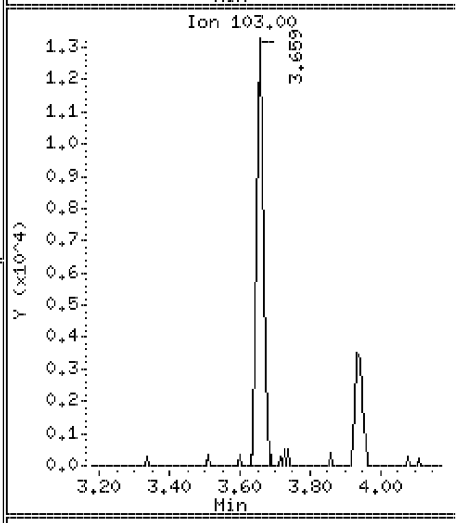


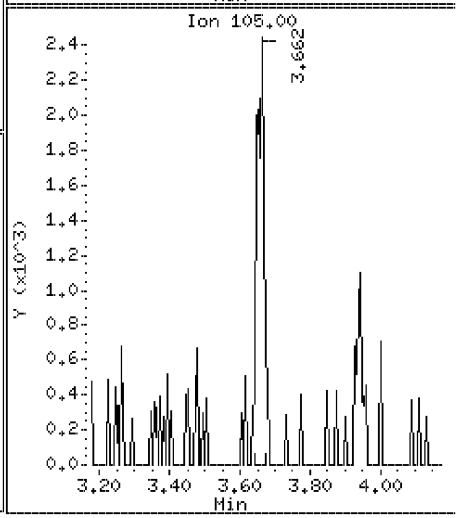












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

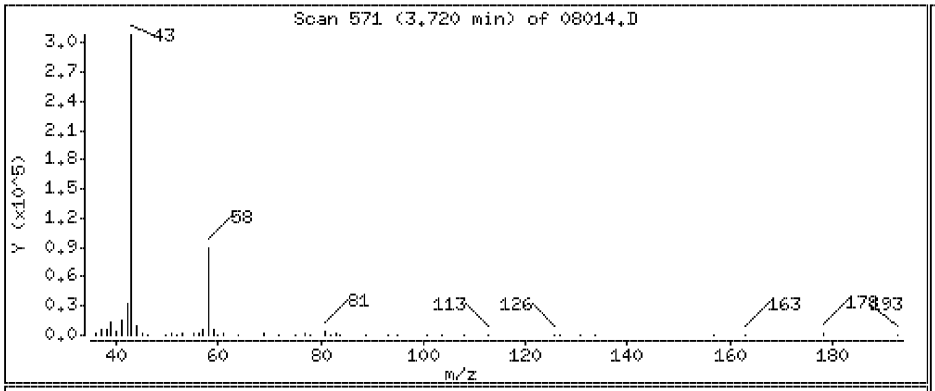
Operator: NCK

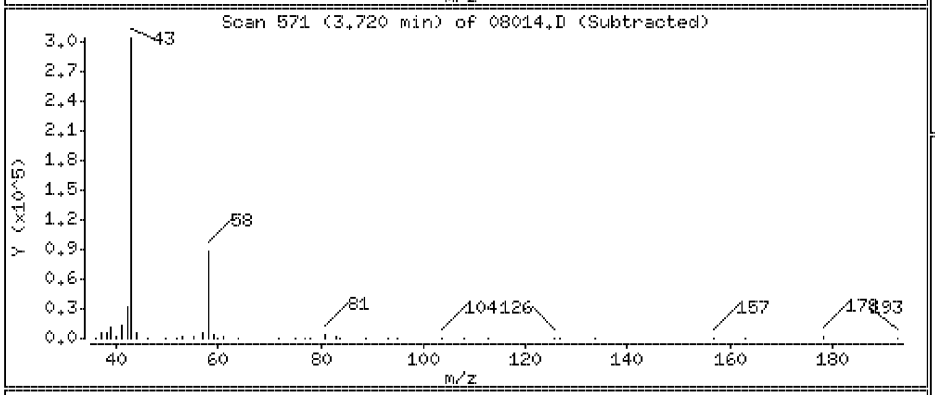
Column phase: J&W DB-5

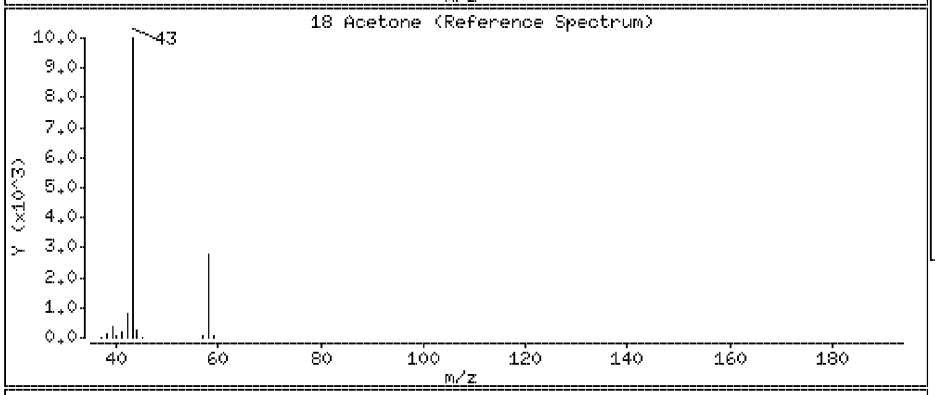
Column diameter: 0.32

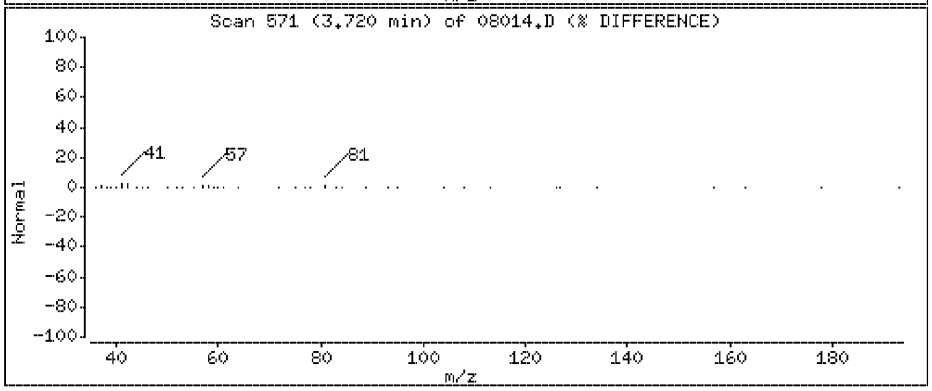
18 Acetone

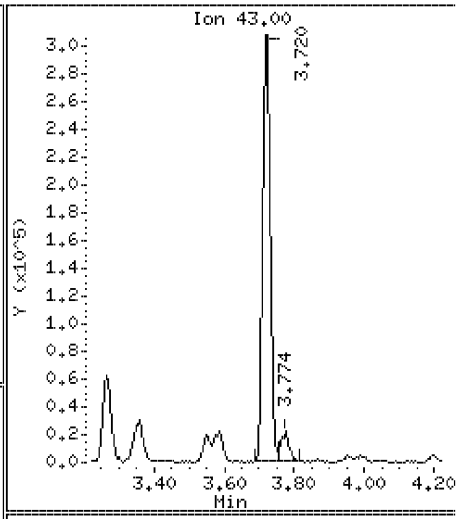
Concentration: 7.62 ppbv

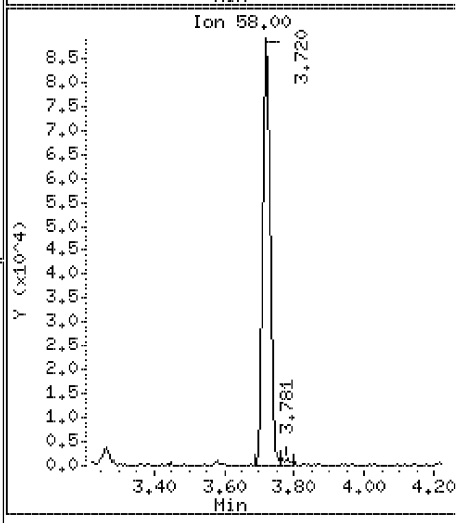












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

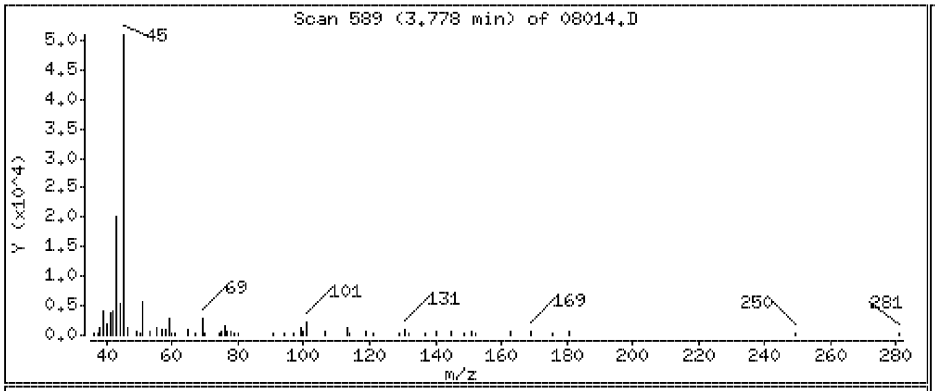
Operator: NCK

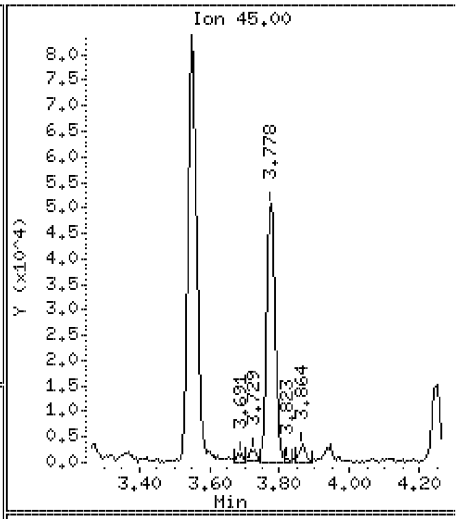
Column phase: J&W DB-5

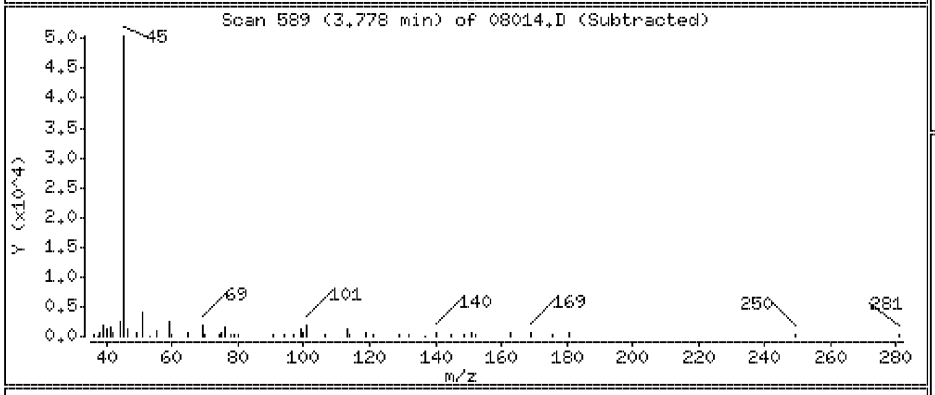
Column diameter: 0.32

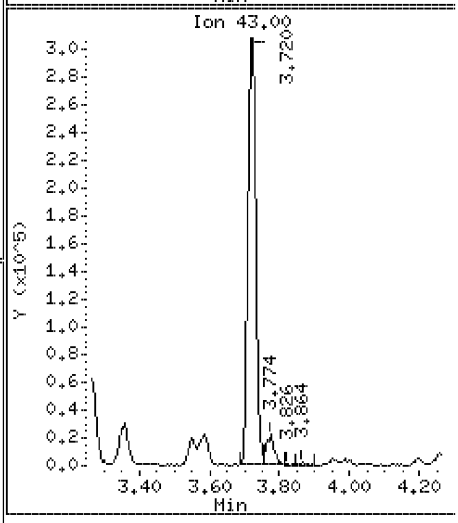
19 Isopropyl Alcohol

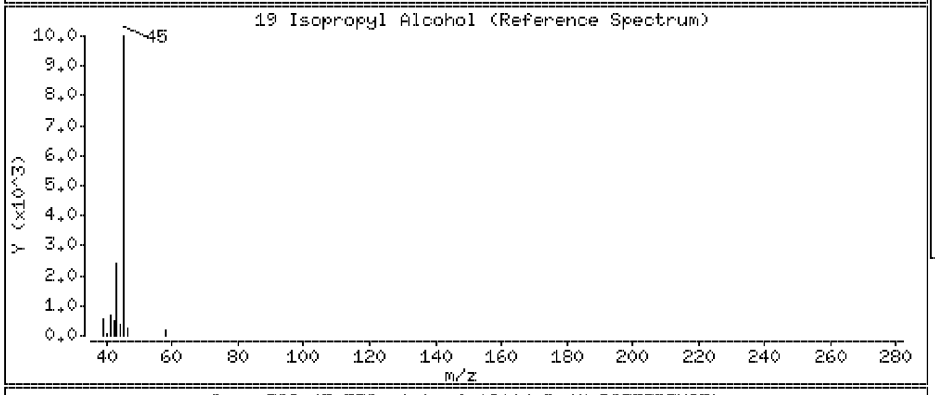
Concentration: 1.18 ppbv

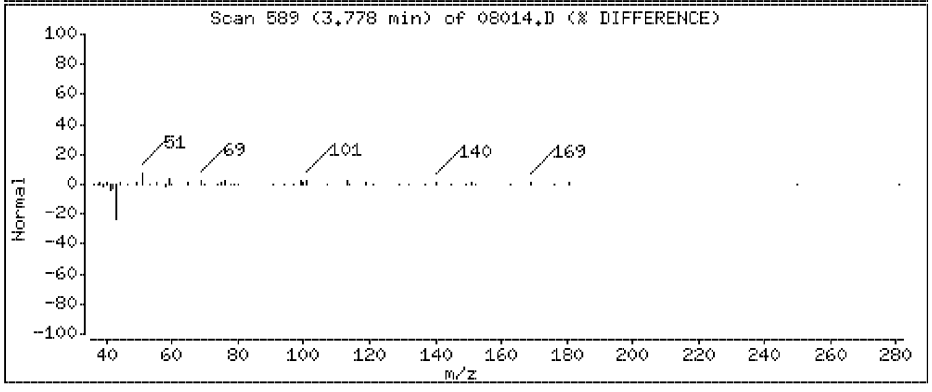












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

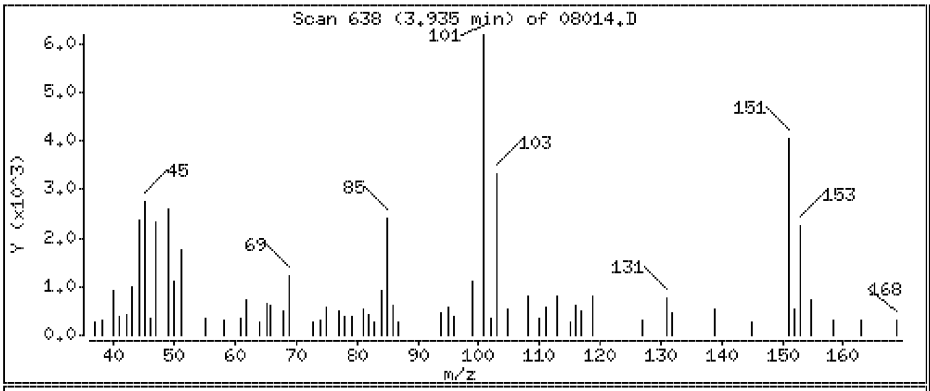
Operator: NCK

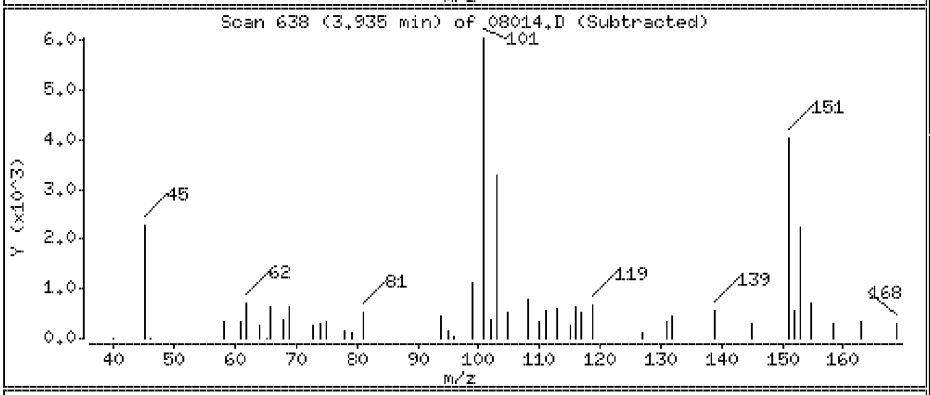
Column phase: J&W DB-5

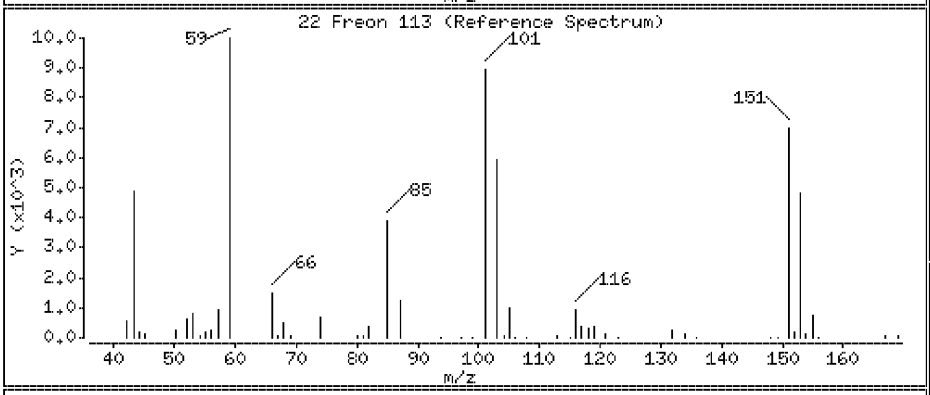
Column diameter: 0.32

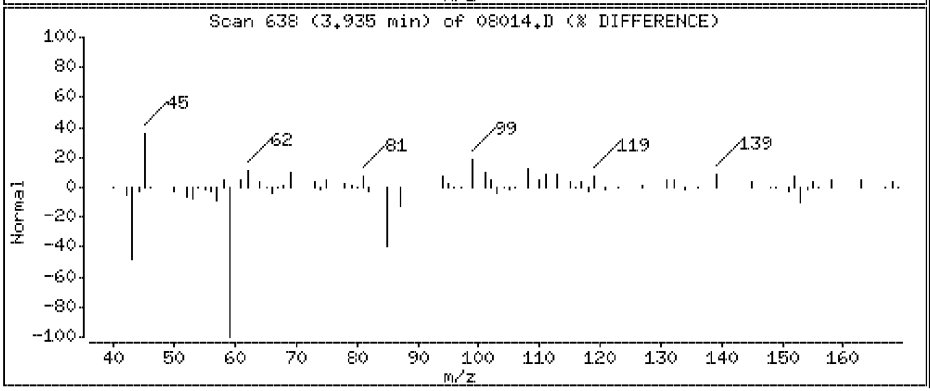
22 Freon 113

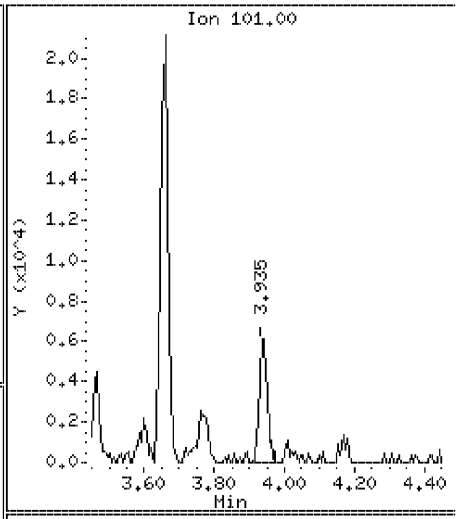
Concentration: 0.168 ppbv

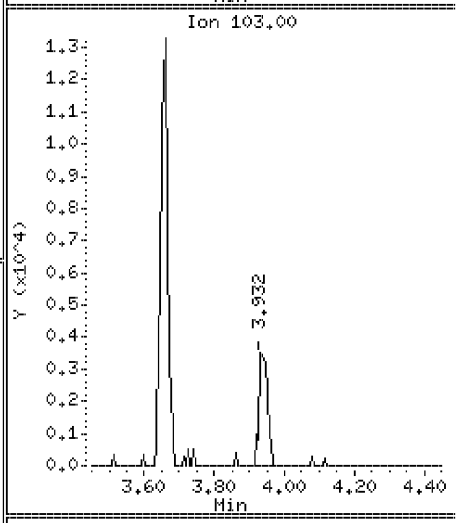


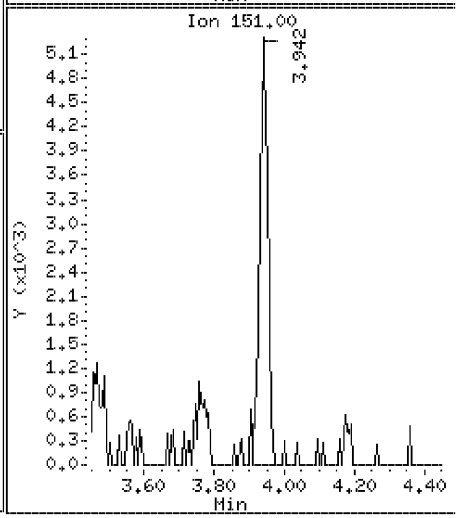












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

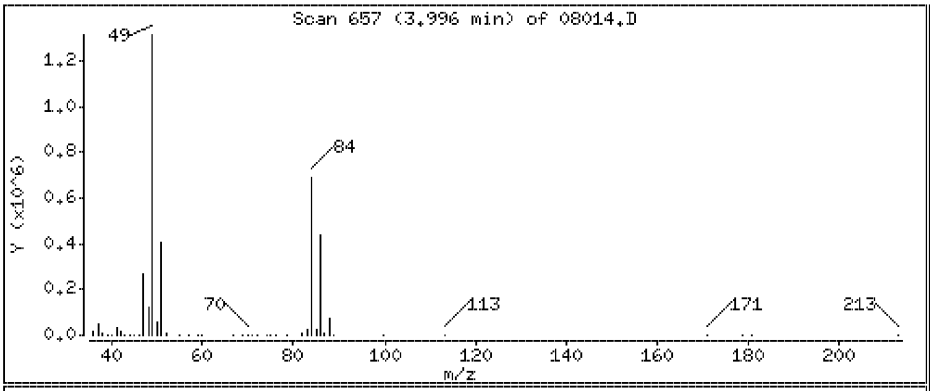
Operator: NCK

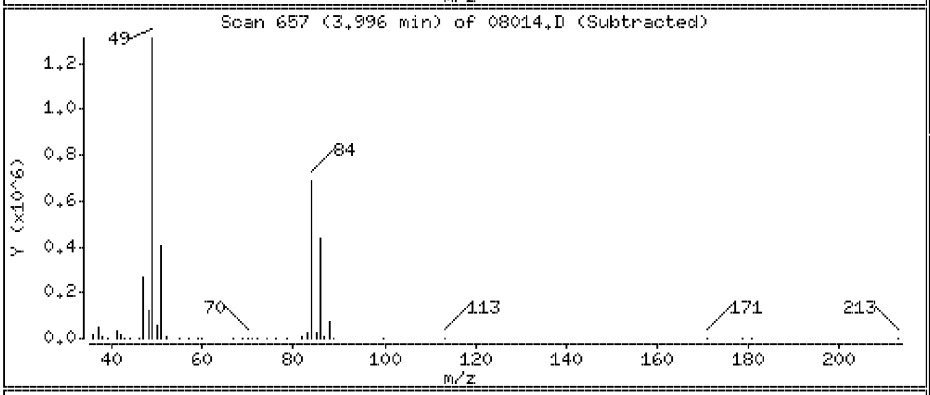
Column phase: J&W DB-5

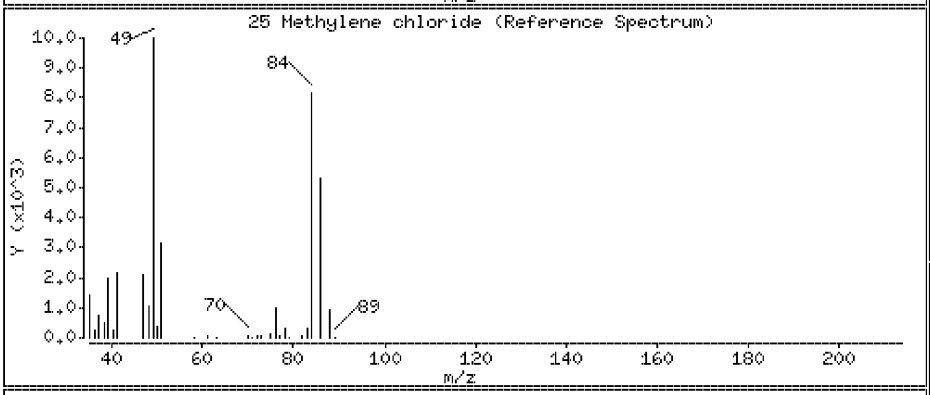
Column diameter: 0.32

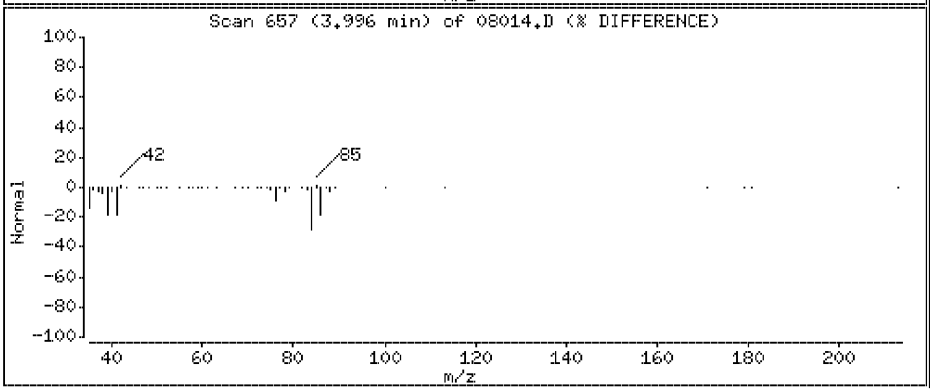
25 Methylene chloride

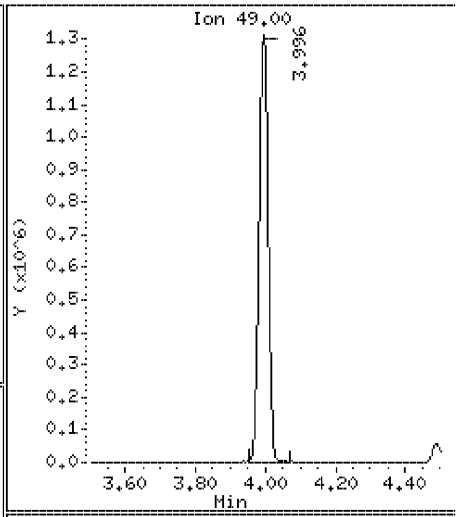
Concentration: 48.1 ppbv

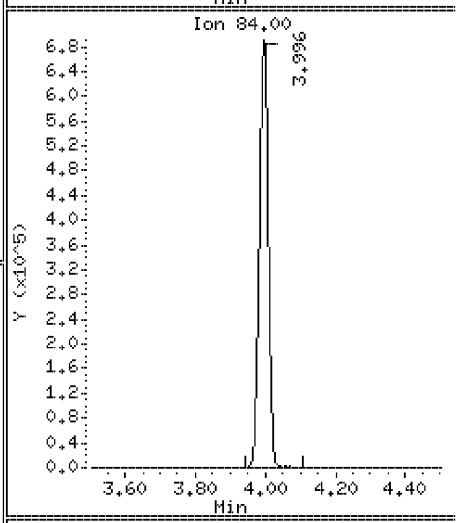


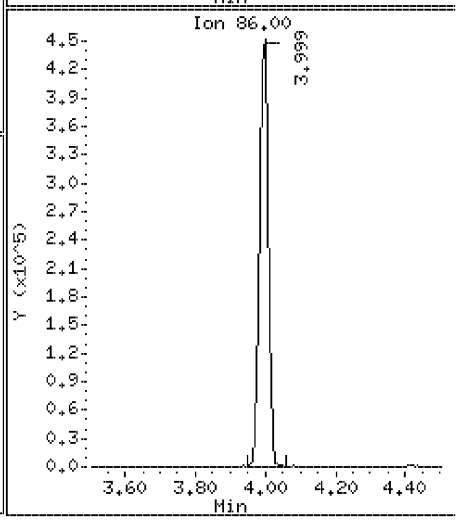












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

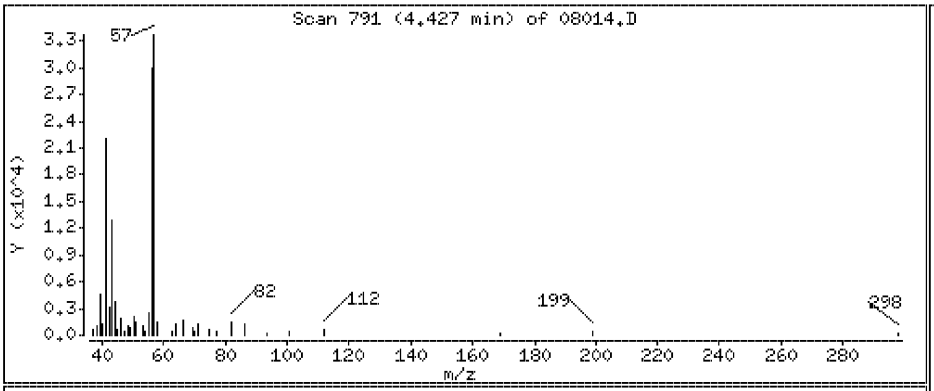
Operator: NCK

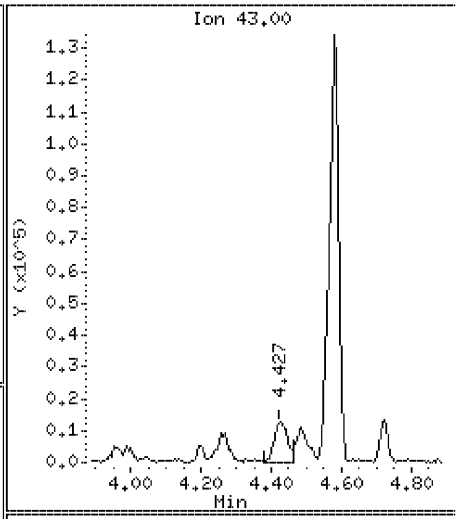
Column phase: J&W DB-5

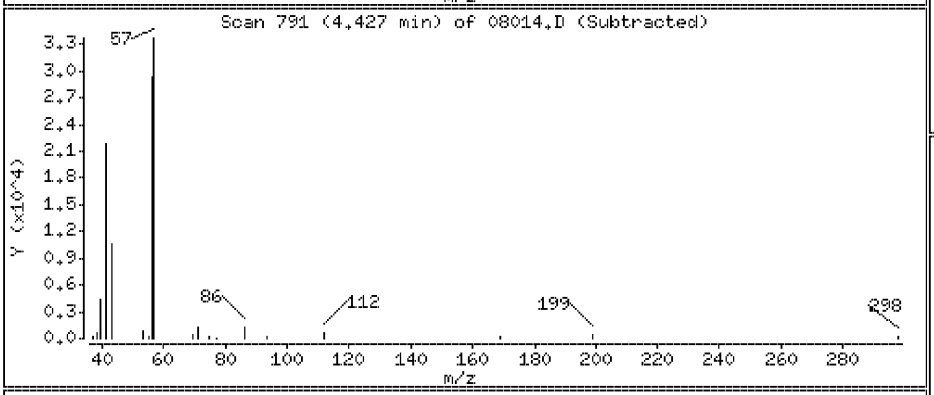
Column diameter: 0.32

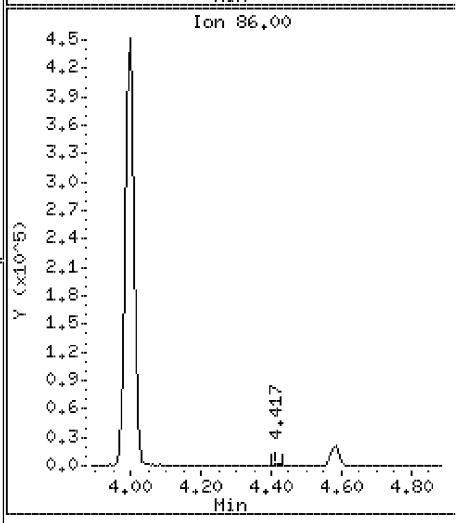
30 Vinyl Acetate

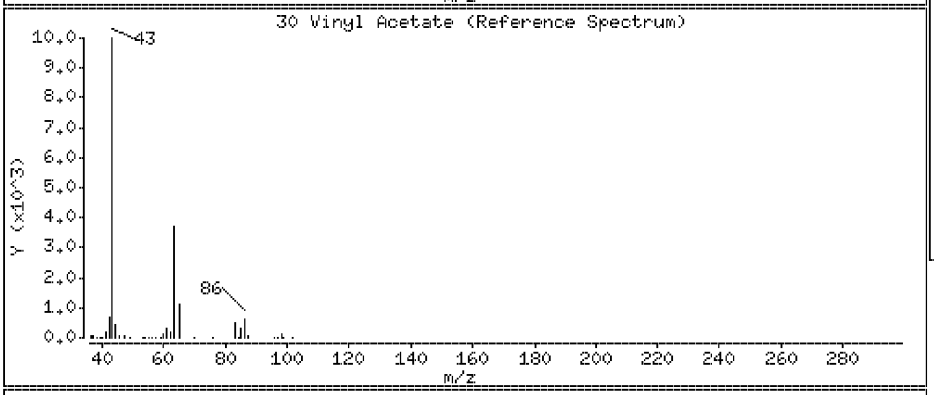
Concentration: 0.374 ppbv

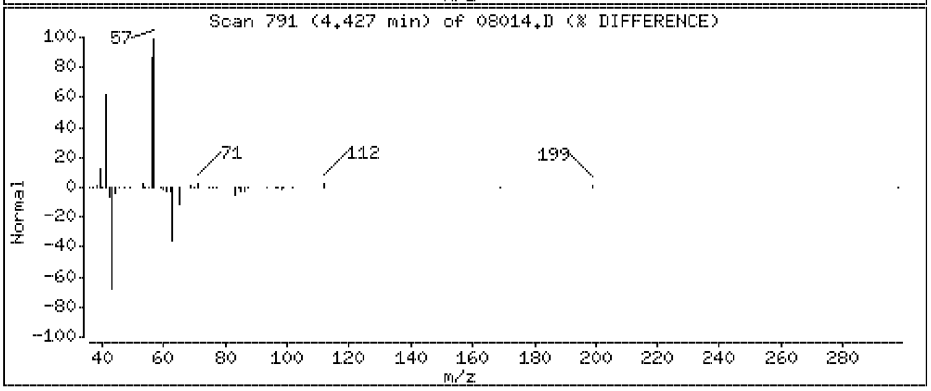












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

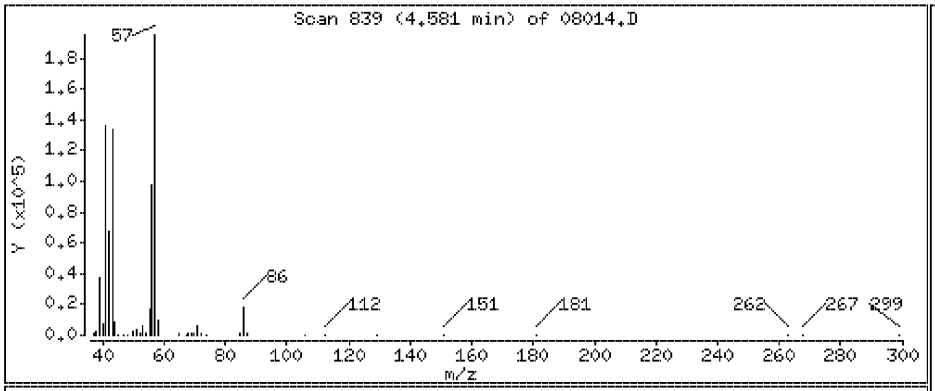
Operator: NCK

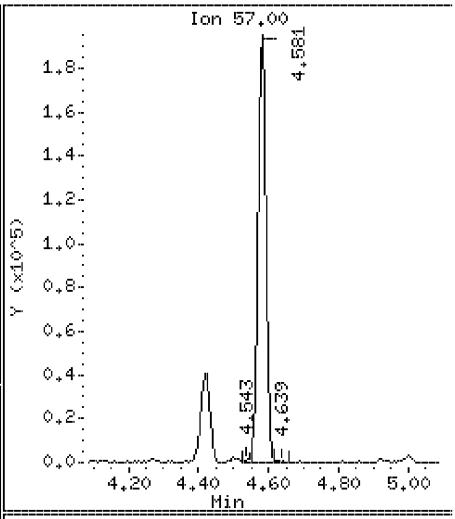
Column phase: J&W DB-5

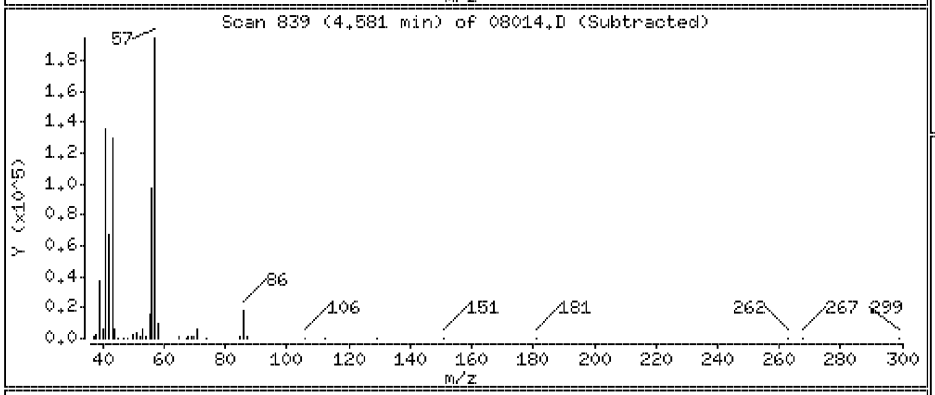
Column diameter: 0.32

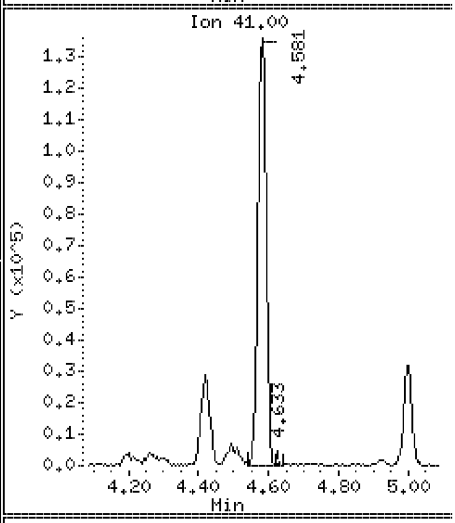
34 n-Hexane

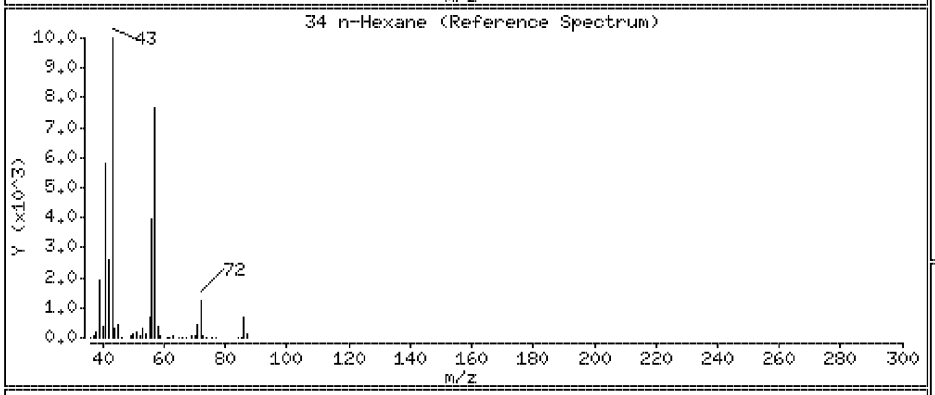
Concentration: 4.77 ppbv

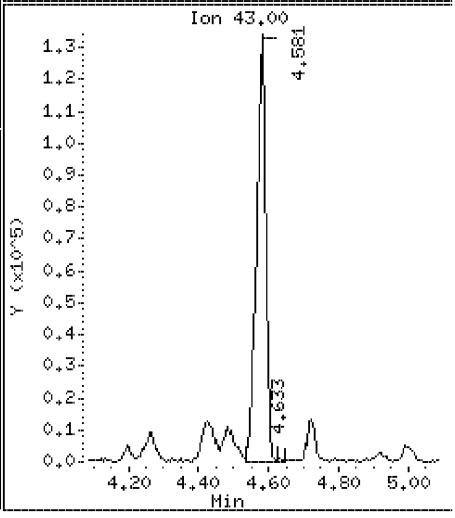


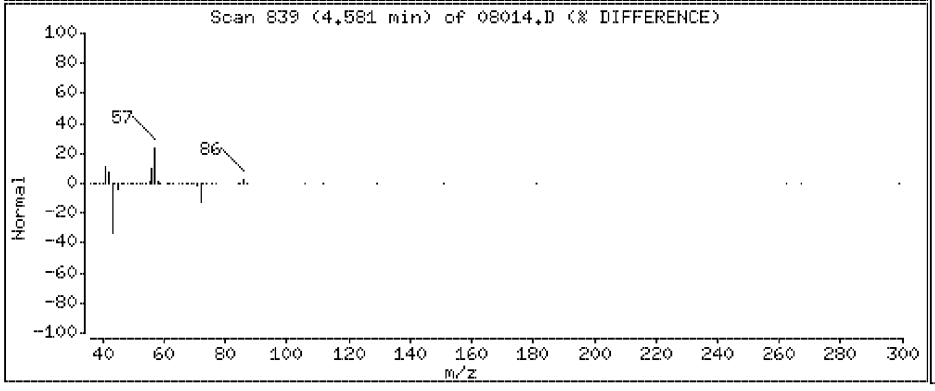












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

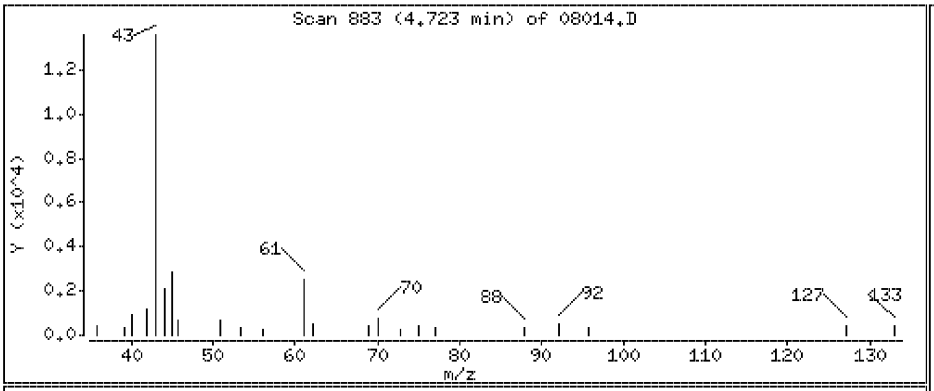
Operator: NCK

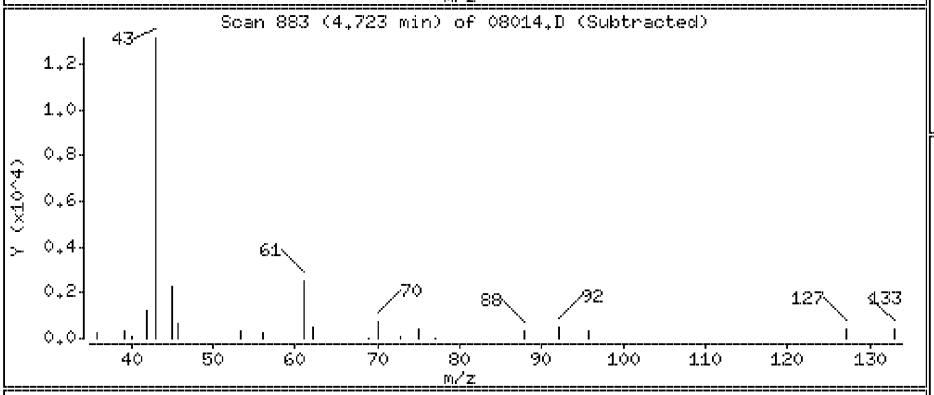
Column phase: J&W DB-5

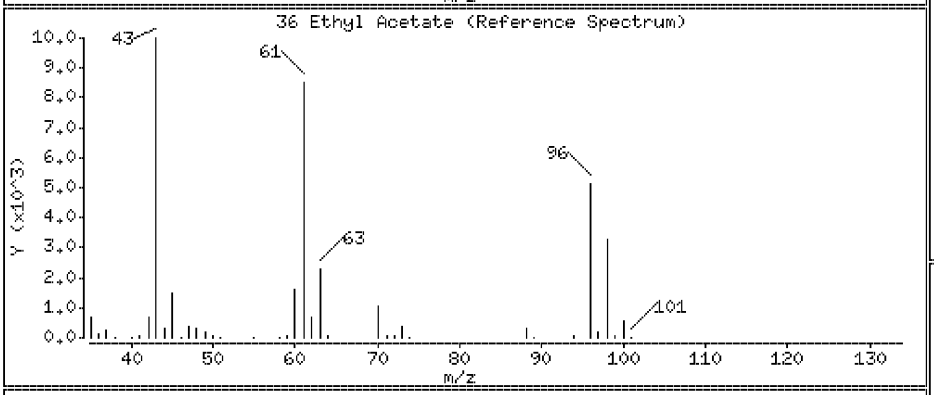
Column diameter: 0.32

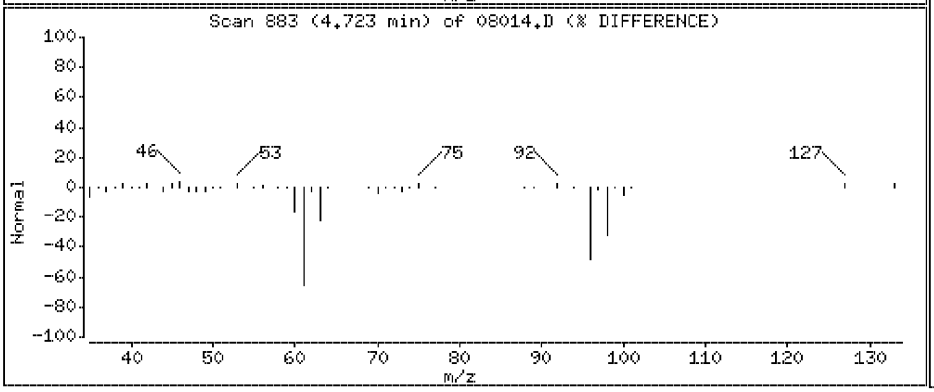
36 Ethyl Acetate

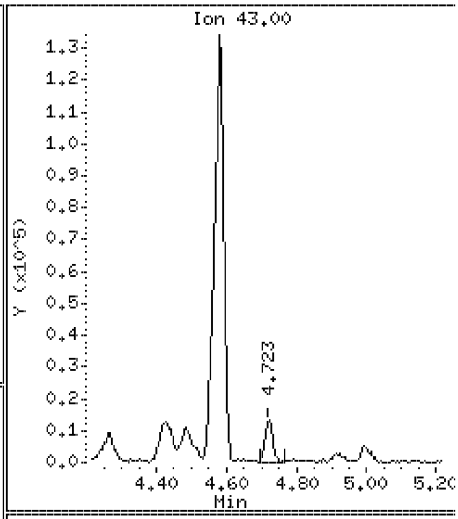
Concentration: 0.235 ppbv

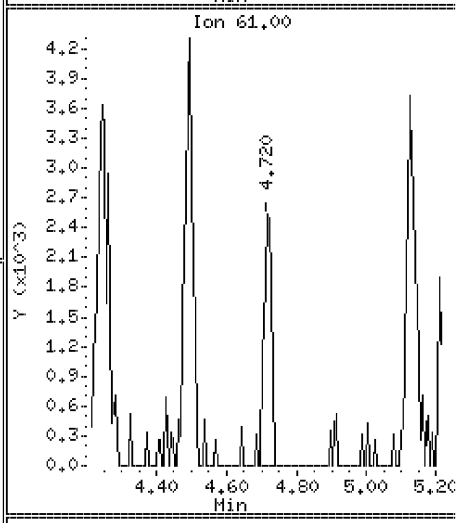


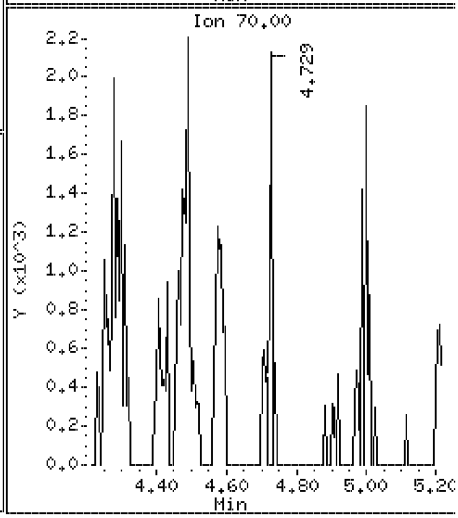












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

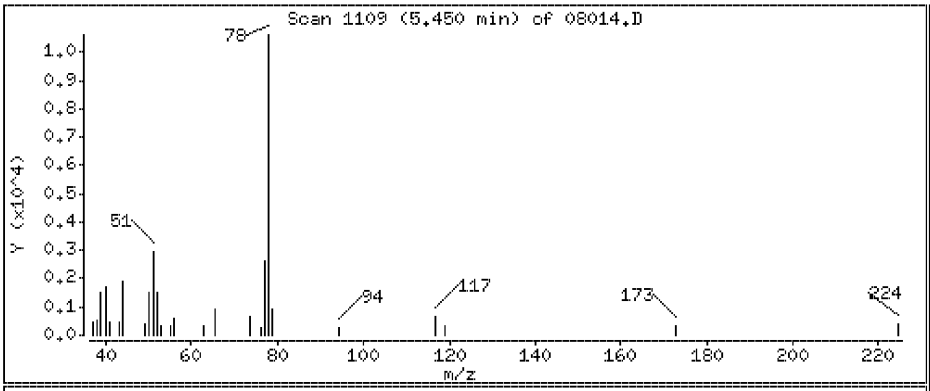
Operator: NCK

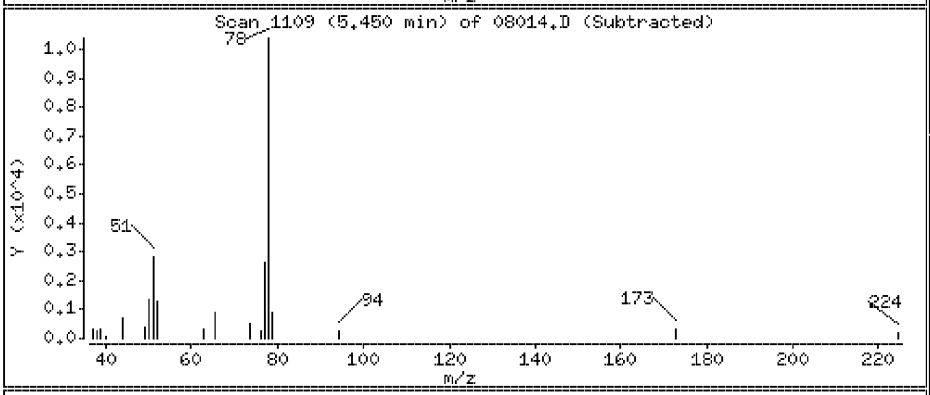
Column phase: J&W DB-5

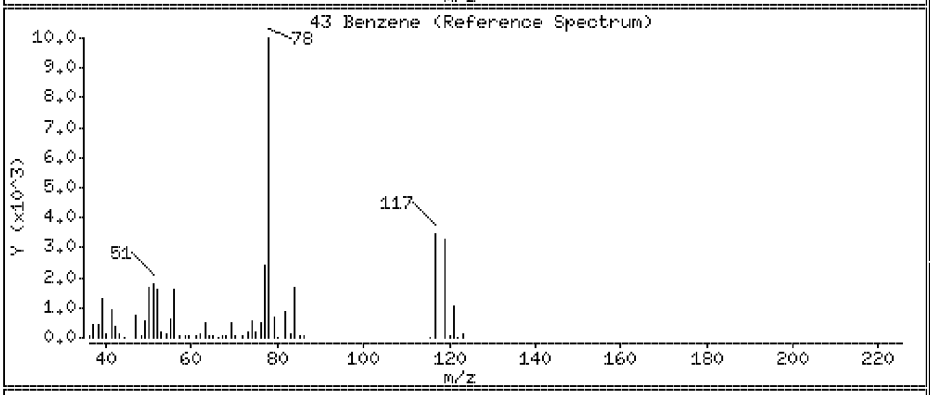
Column diameter: 0.32

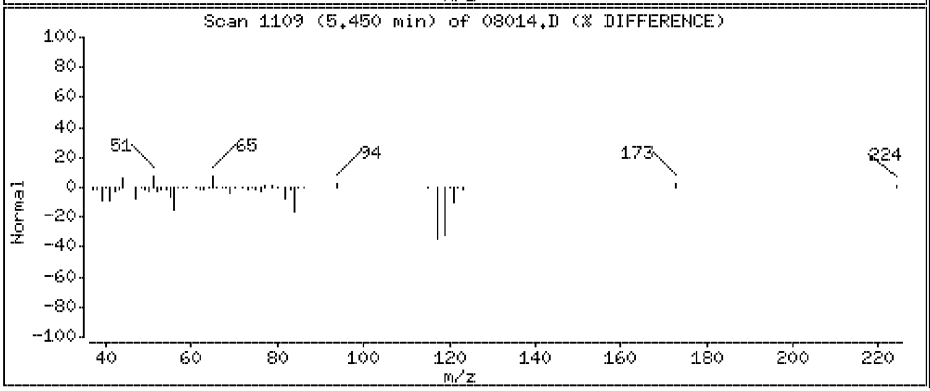
43 Benzene

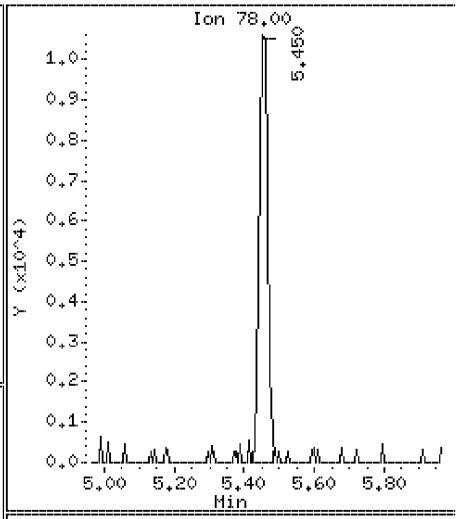
Concentration: 0.159 ppbv

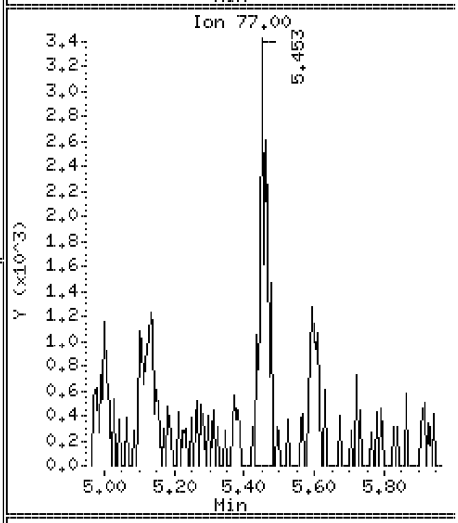


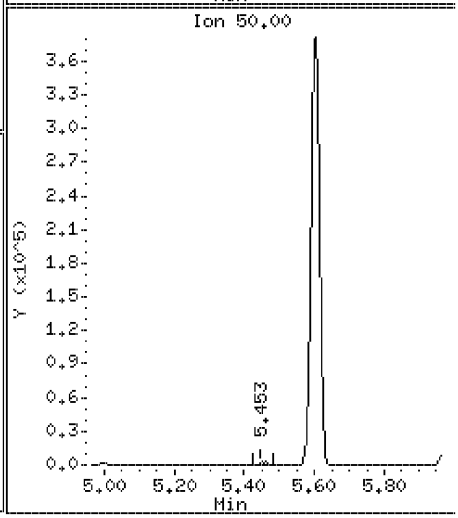












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

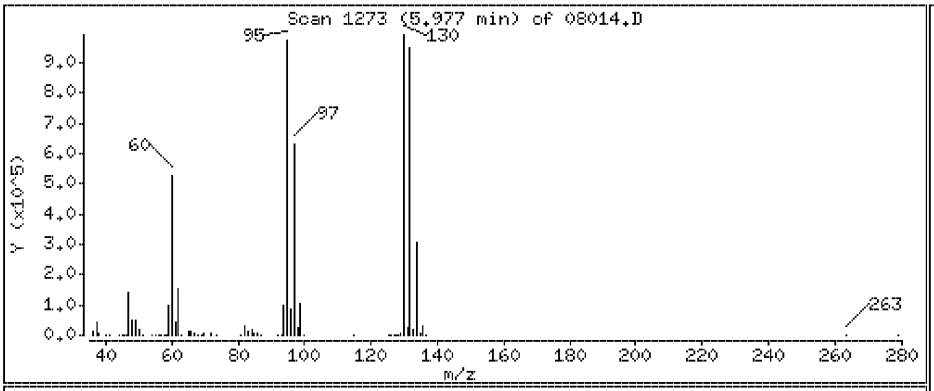
Operator: NCK

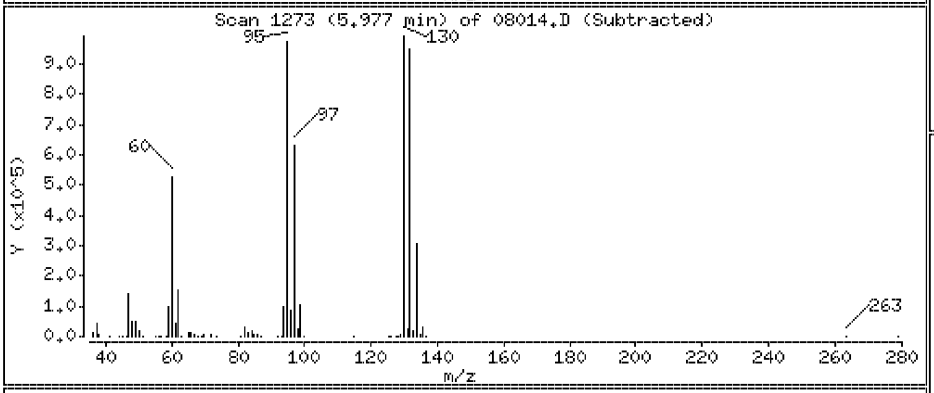
Column phase: J&W DB-5

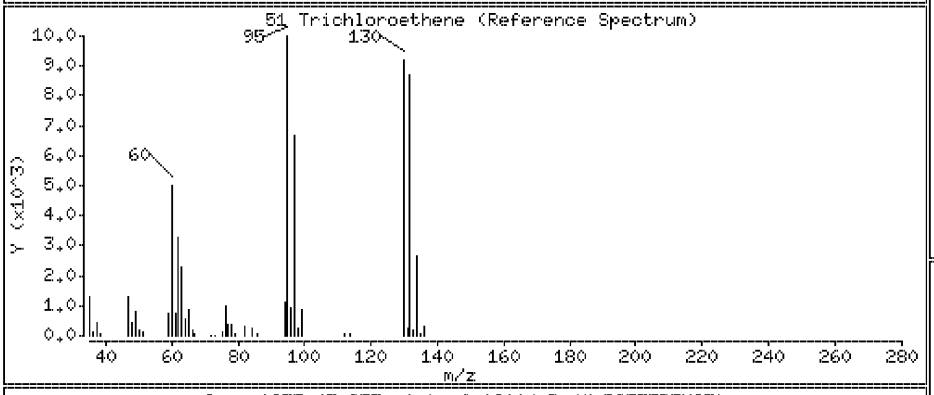
Column diameter: 0.32

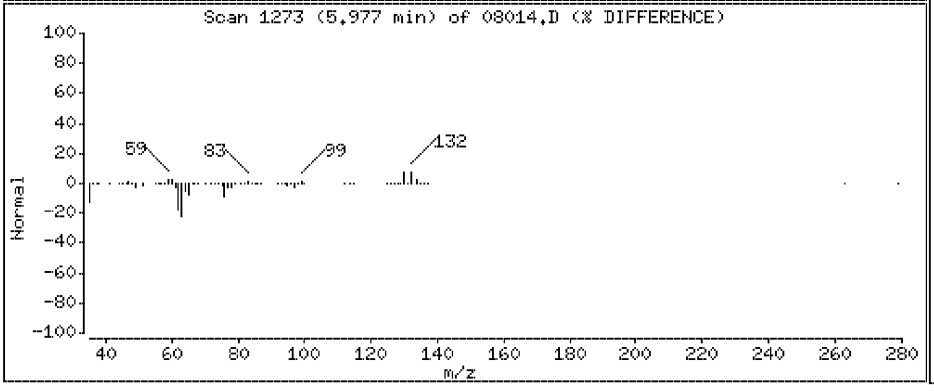
51 Trichloroethene

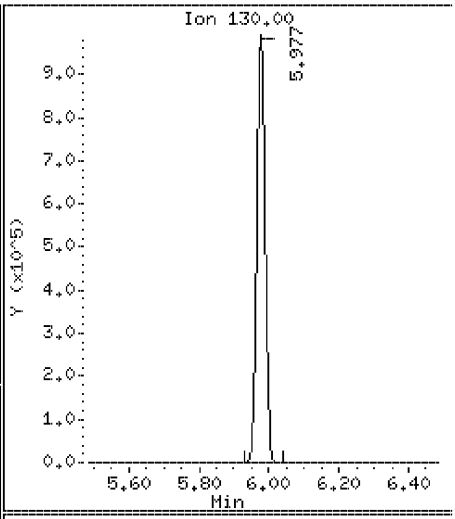
Concentration: 32.2 ppbv

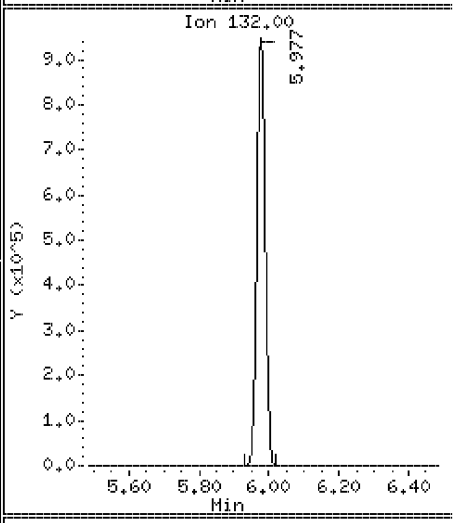


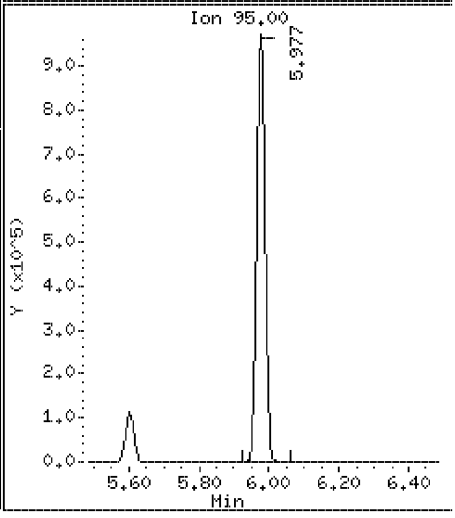












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

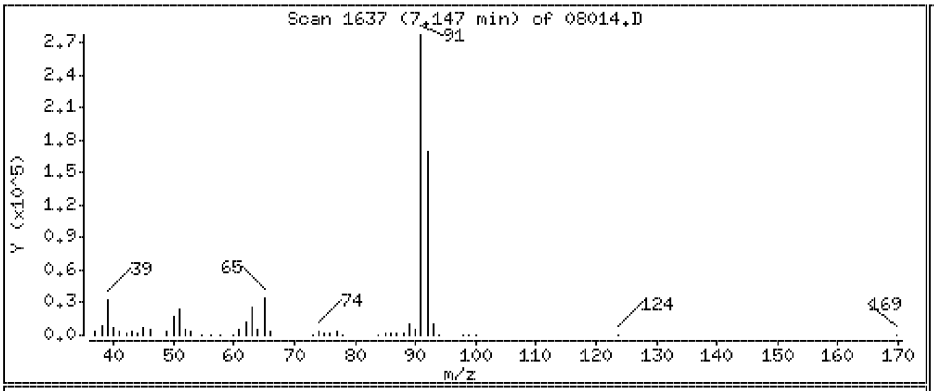
Operator: NCK

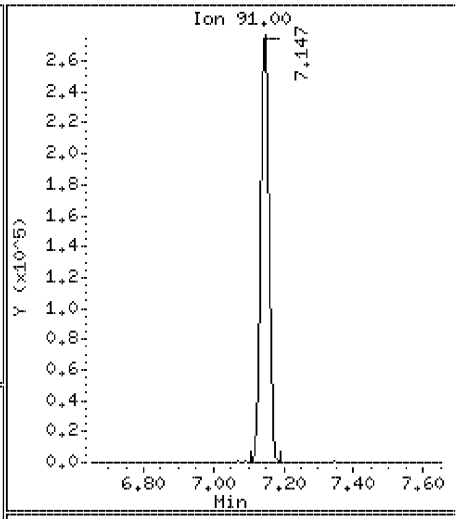
Column phase: J&W DB-5

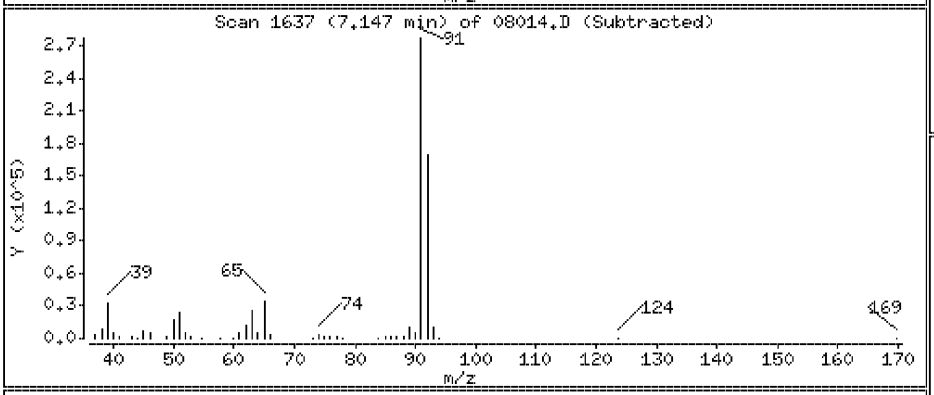
Column diameter: 0.32

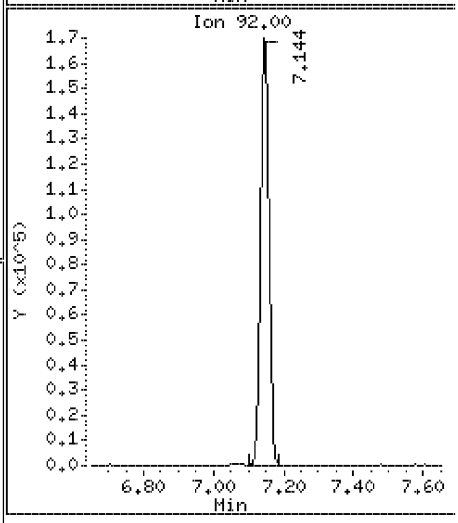
61 Toluene

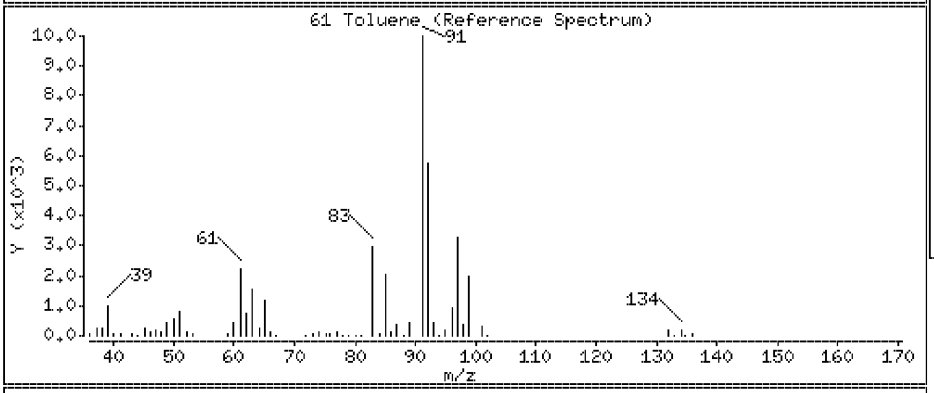
Concentration: 3.70 ppbv

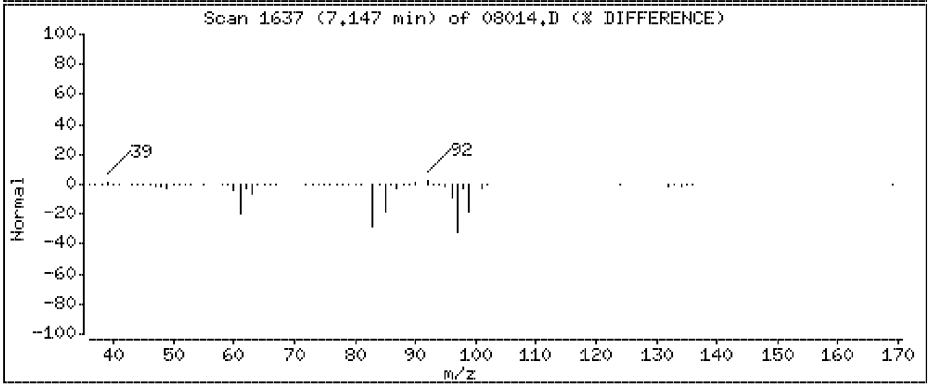












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

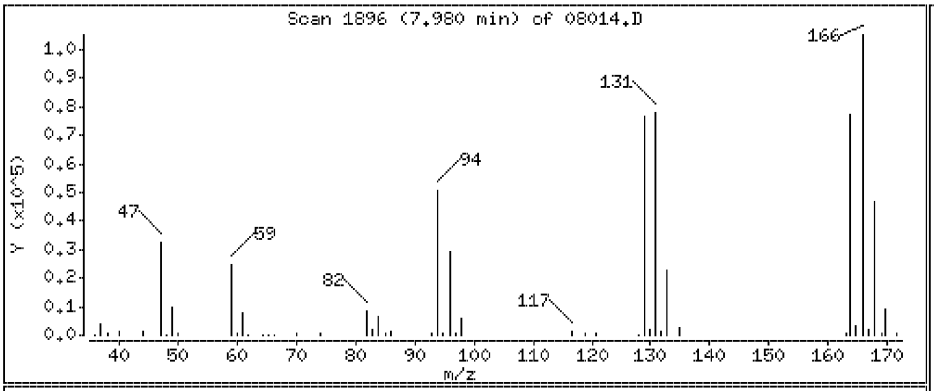
Operator: NCK

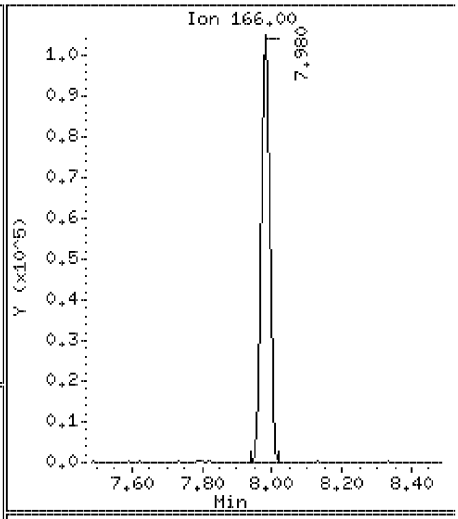
Column phase: J&W DB-5

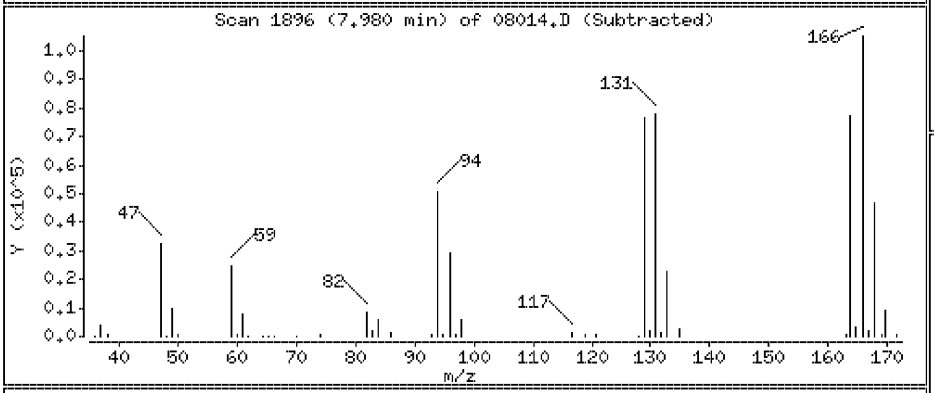
Column diameter: 0.32

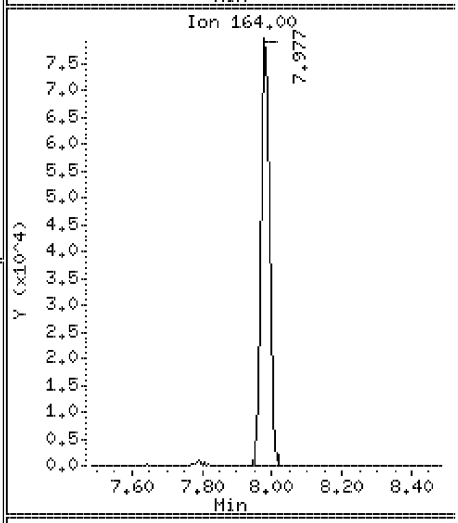
66 Tetrachloroethene

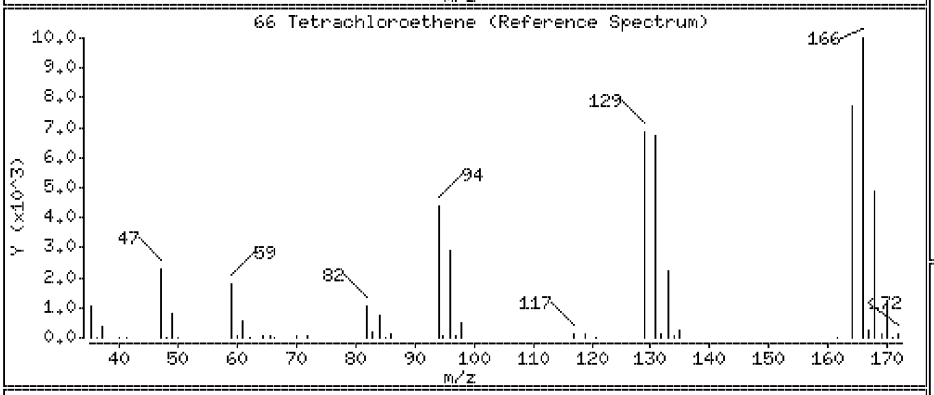
Concentration: 3.28 ppbv

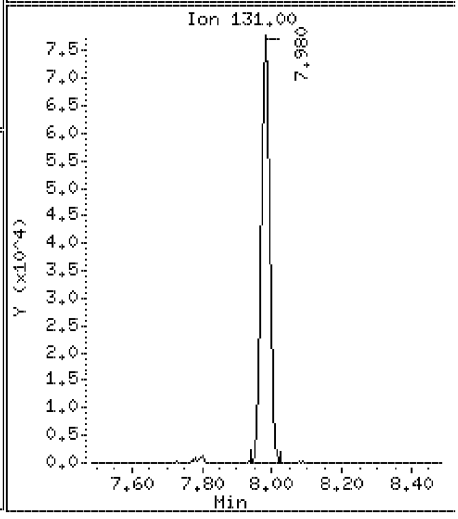


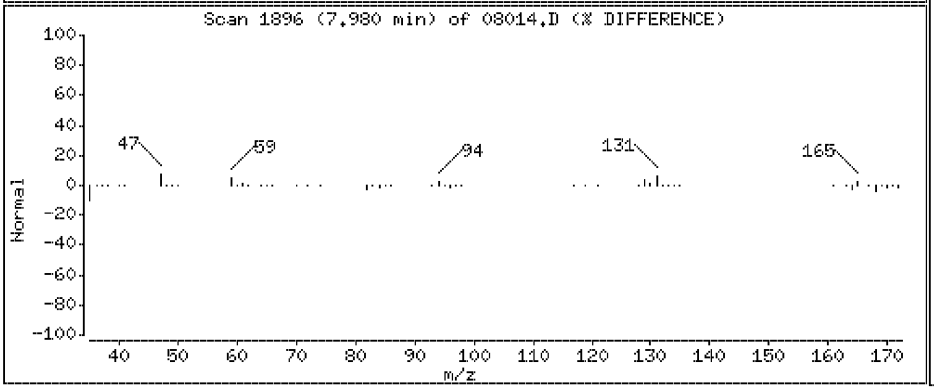












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

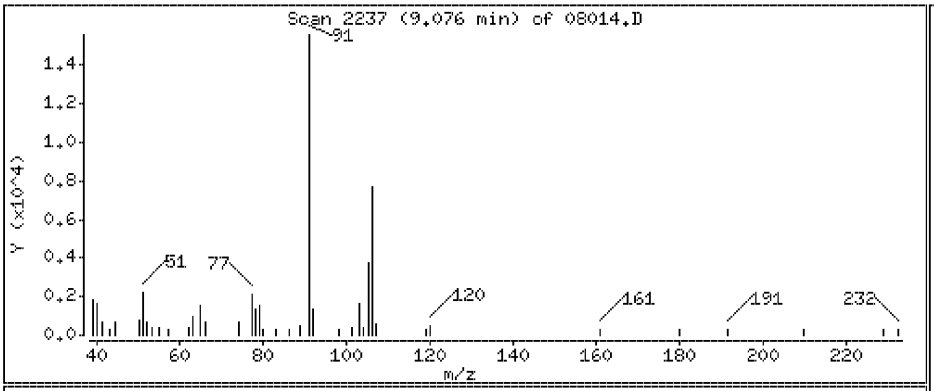
Operator: NCK

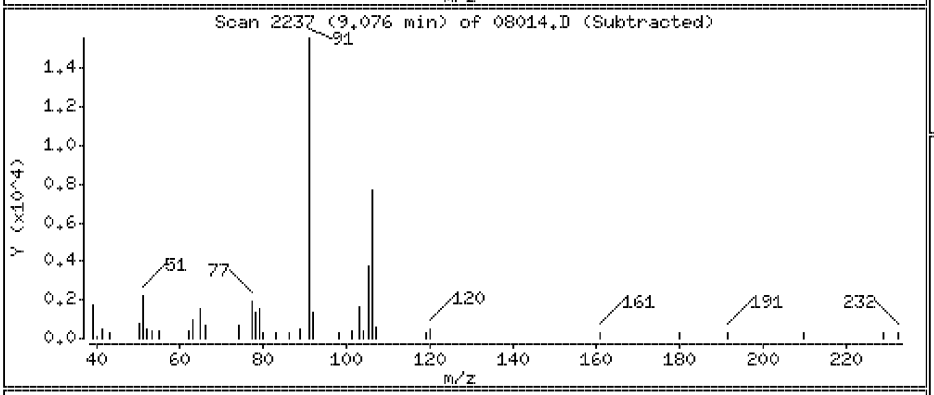
Column phase: J&W DB-5

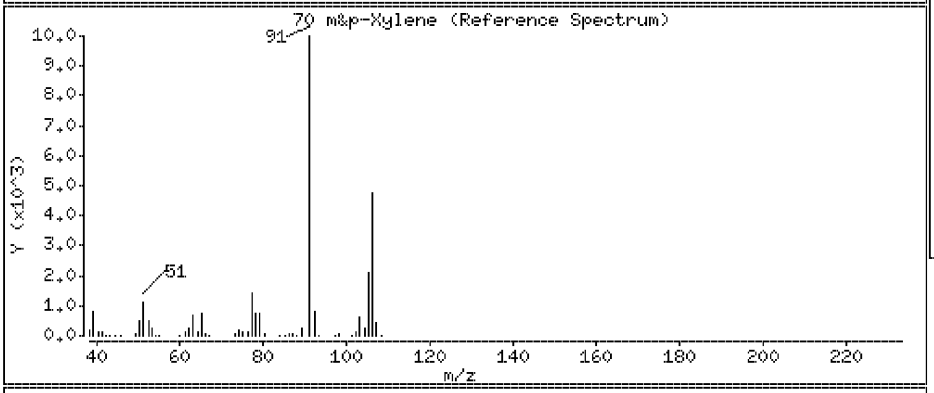
Column diameter: 0.32

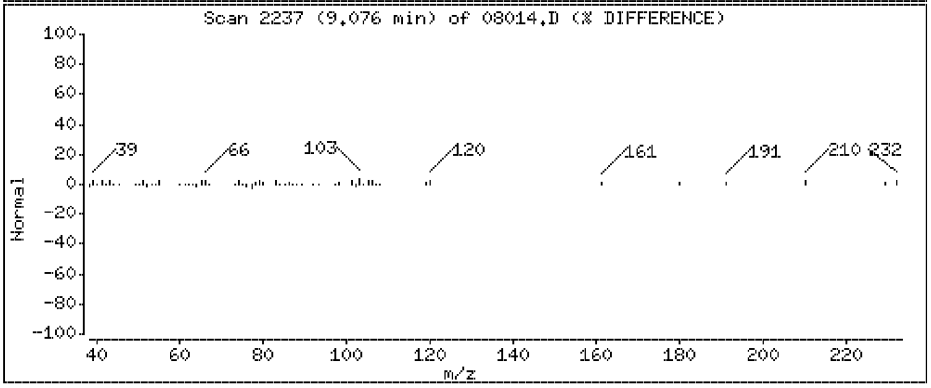
70 m&p-Xylene

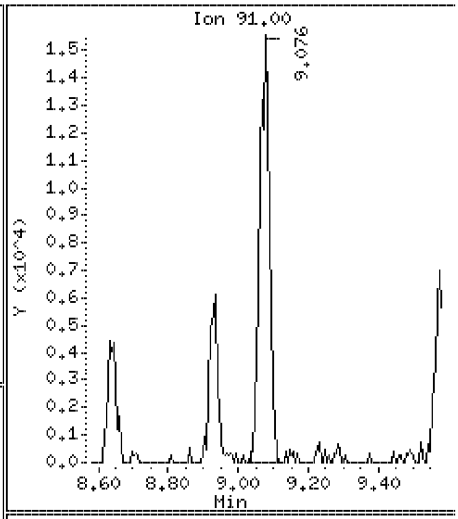
Concentration: 0.524 ppbv

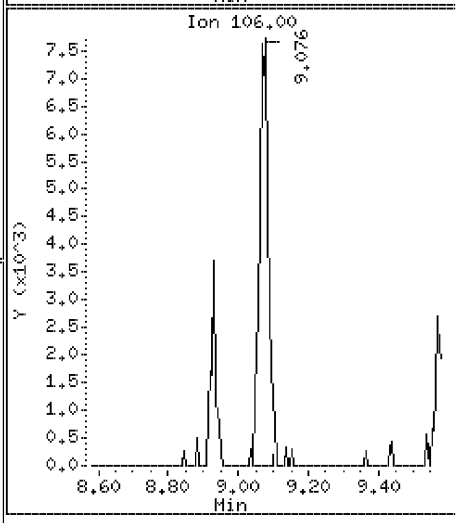












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

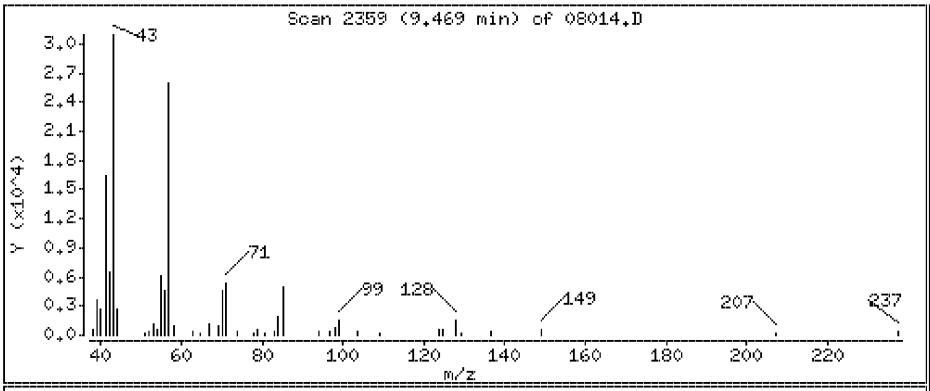
Operator: NCK

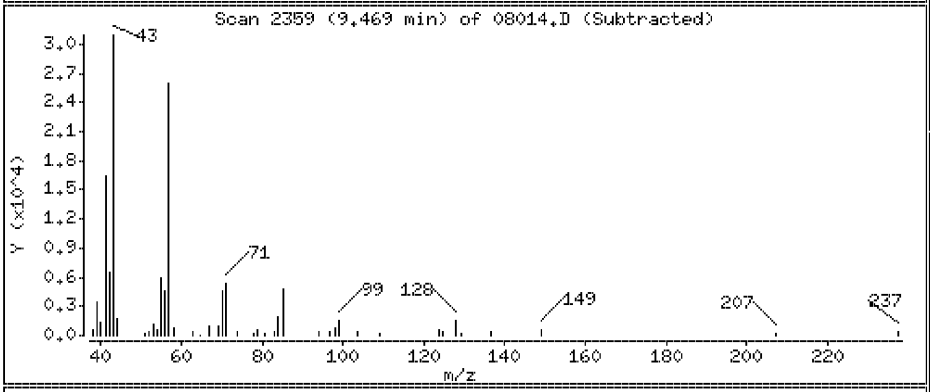
Column phase: J&W DB-5

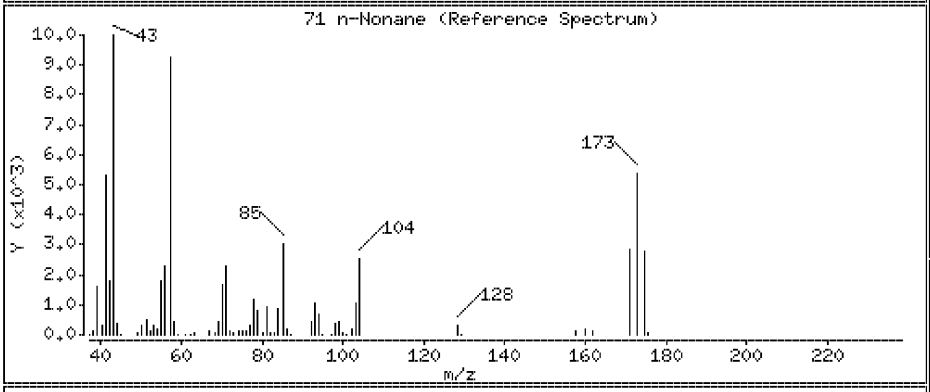
Column diameter: 0.32

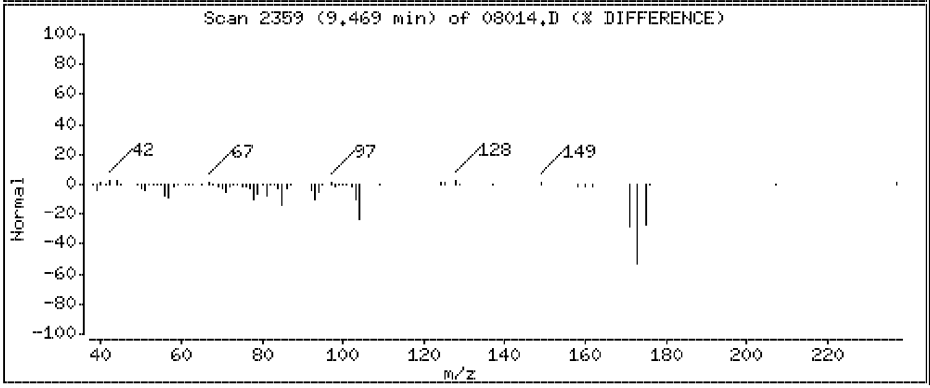
71 n-Nonane

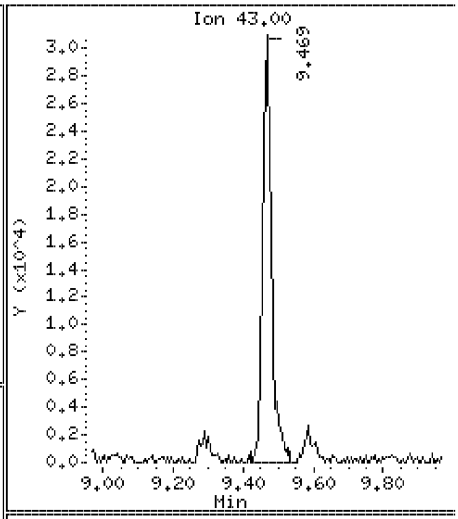
Concentration: 0.730 ppbv

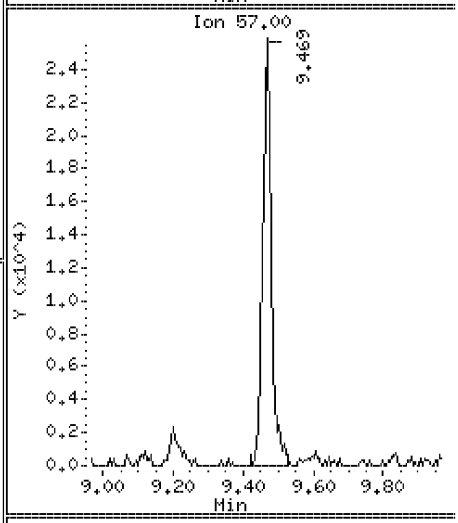


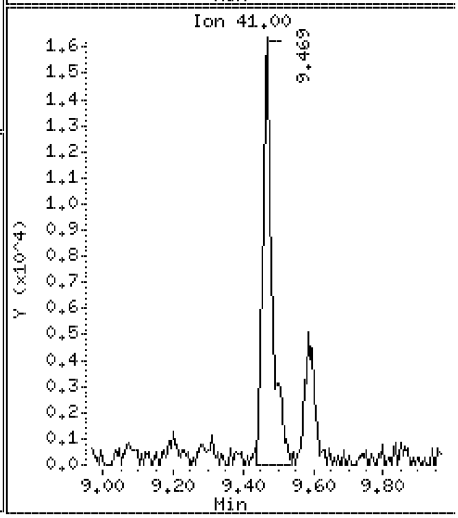












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

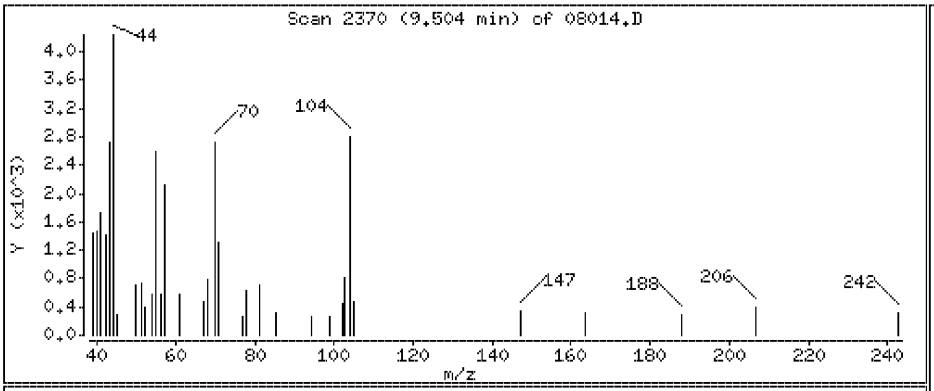
Operator: NCK

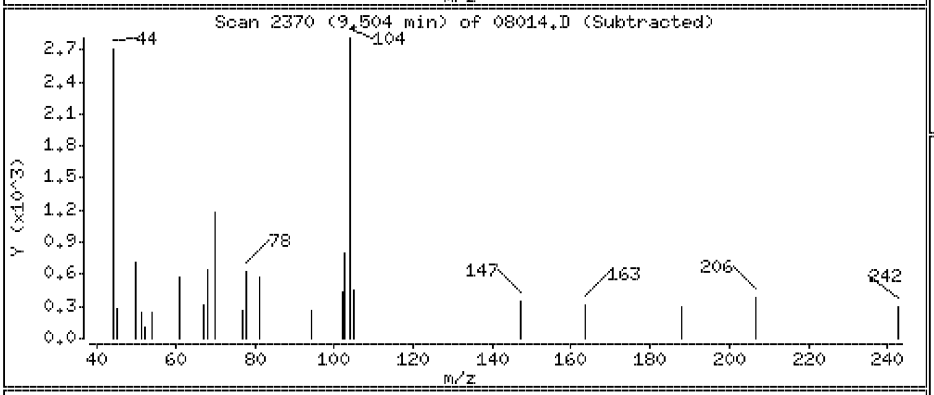
Column phase: J&W DB-5

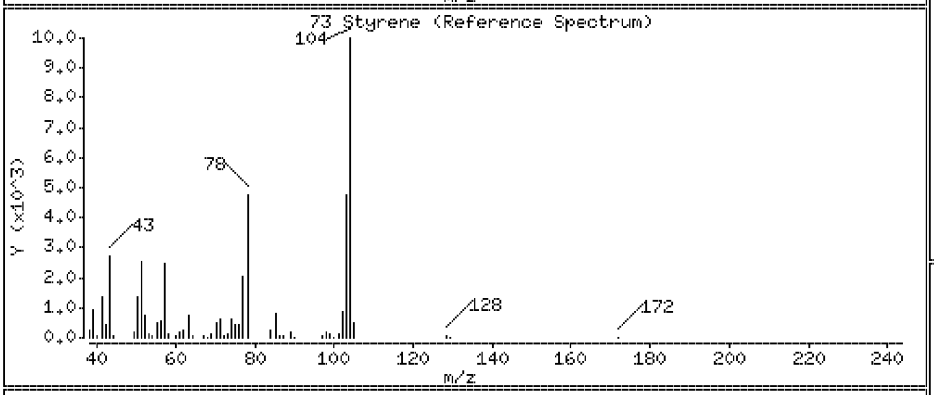
Column diameter: 0.32

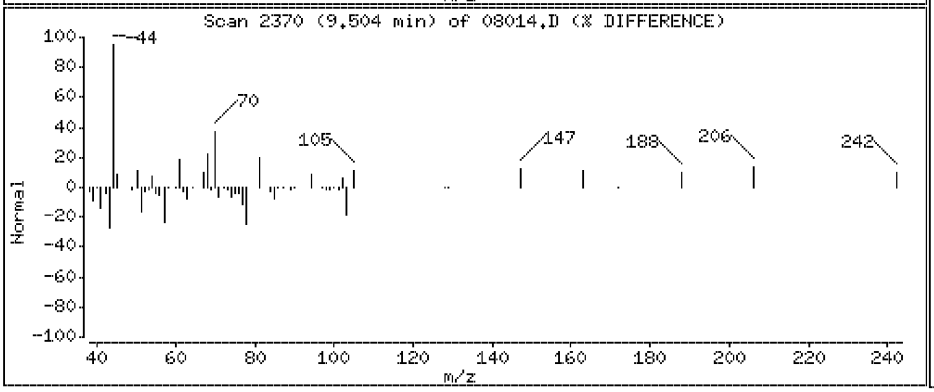
73 Styrene

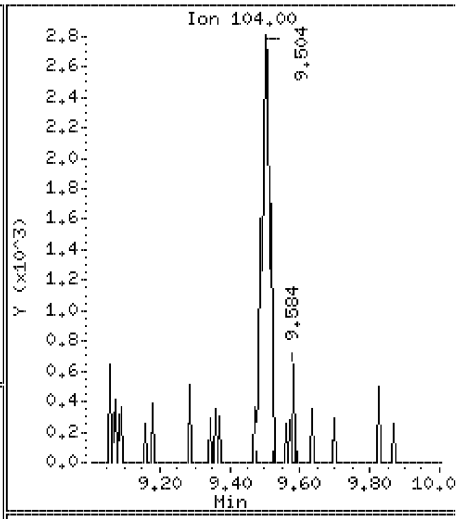
Concentration: 0.274 ppbv

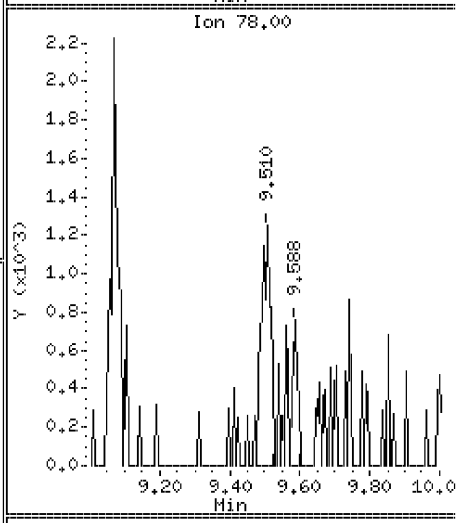


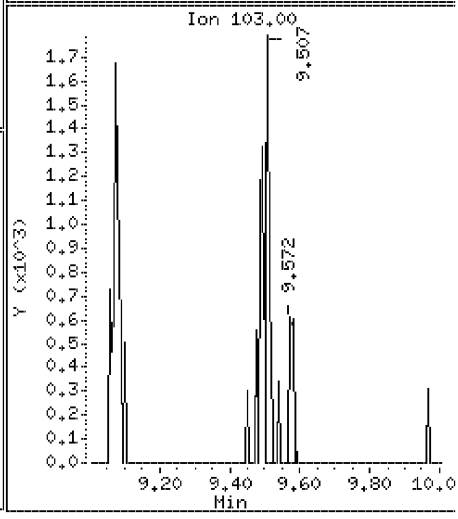












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

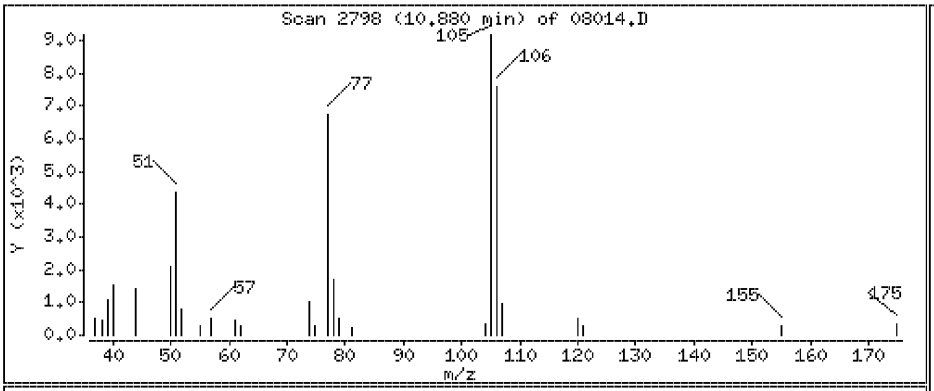
Operator: NCK

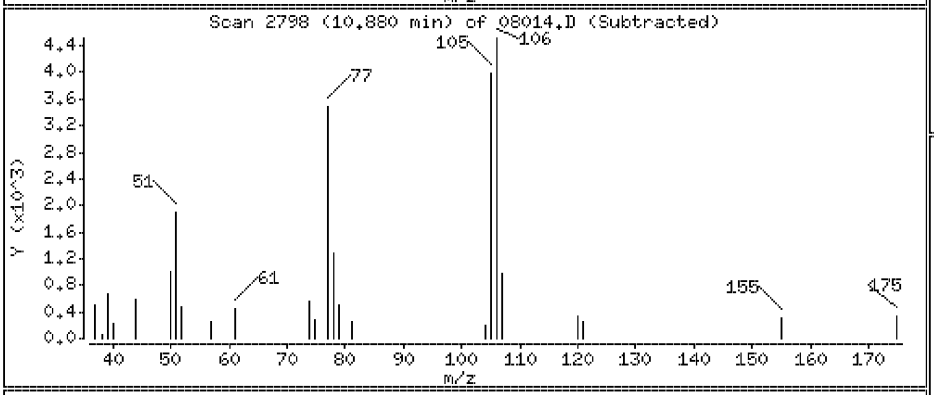
Column phase: J&W DB-5

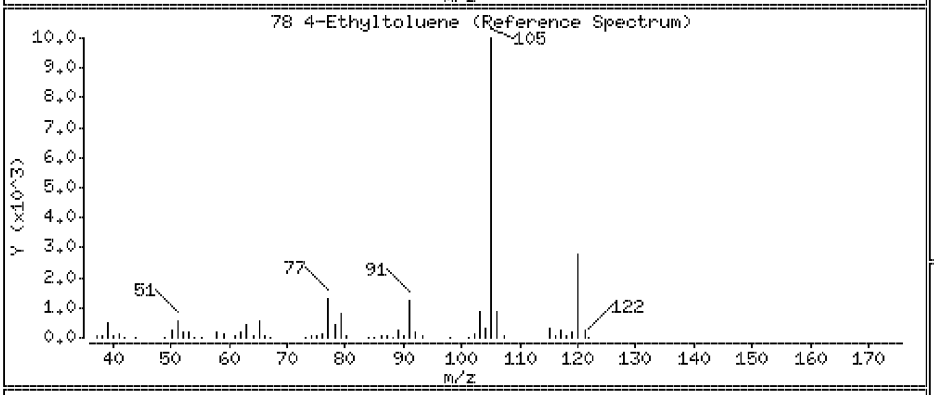
Column diameter: 0.32

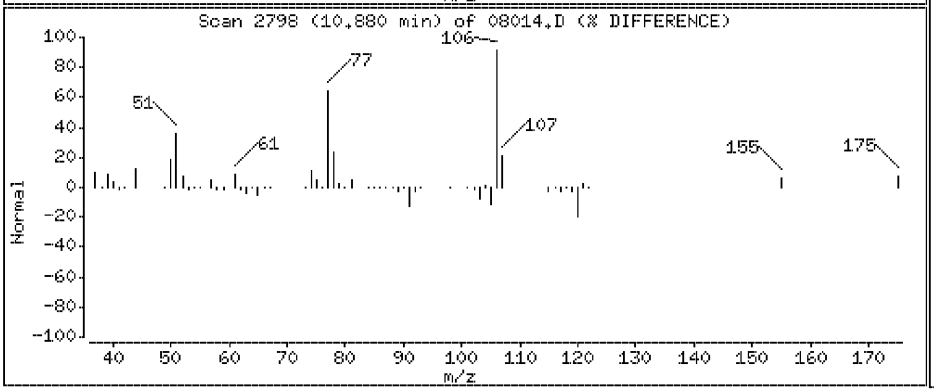
78 4-Ethyltoluene

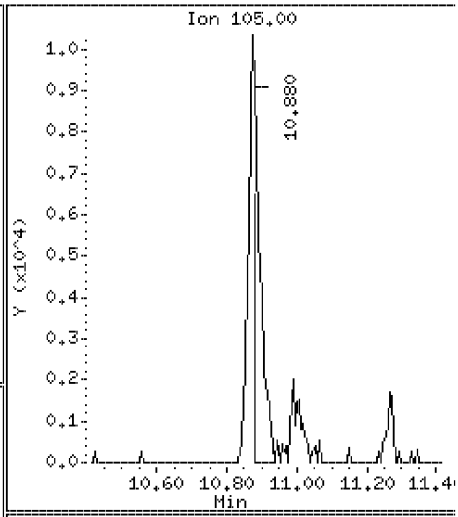
Concentration: 0.355 ppbv

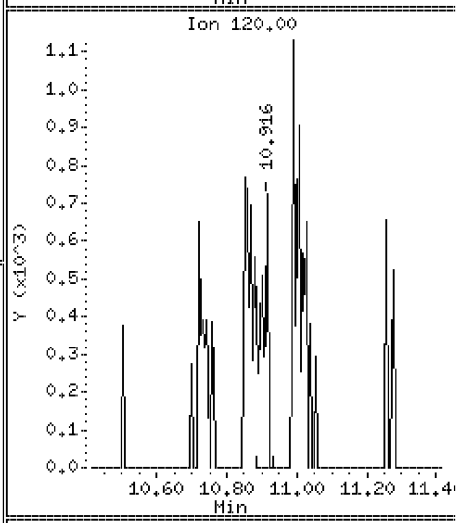


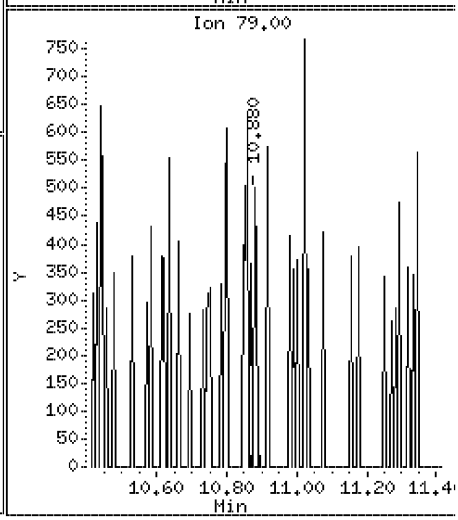












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

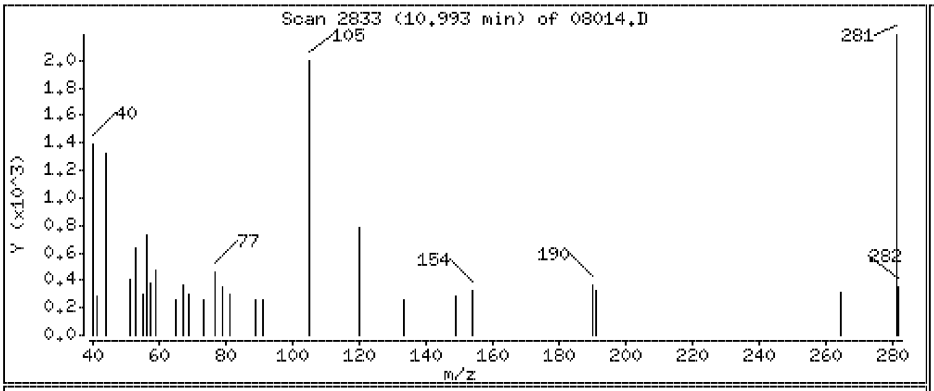
Operator: NCK

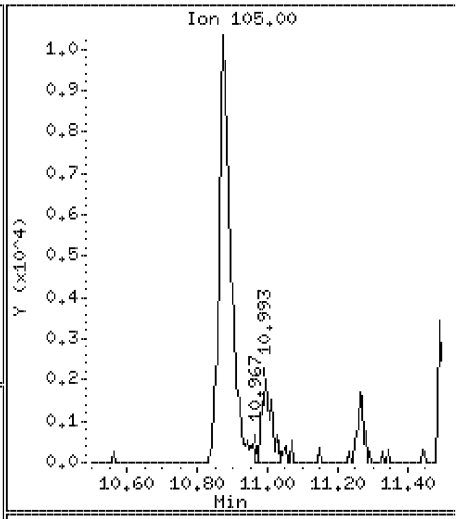
Column phase: J&W DB-5

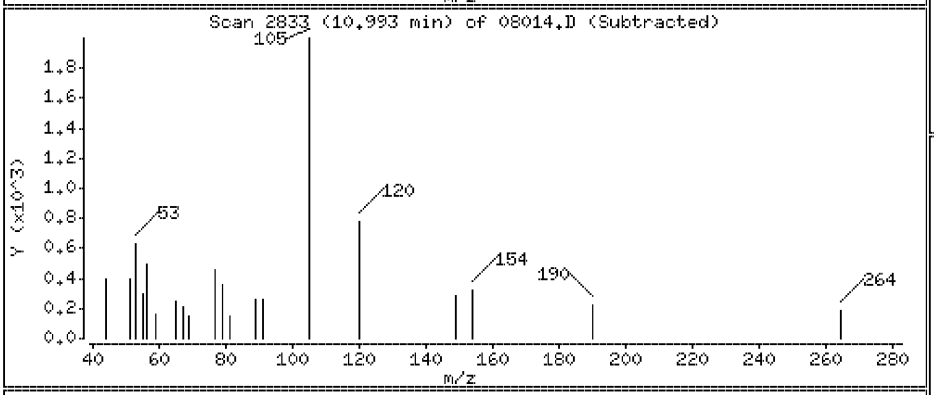
Column diameter: 0.32

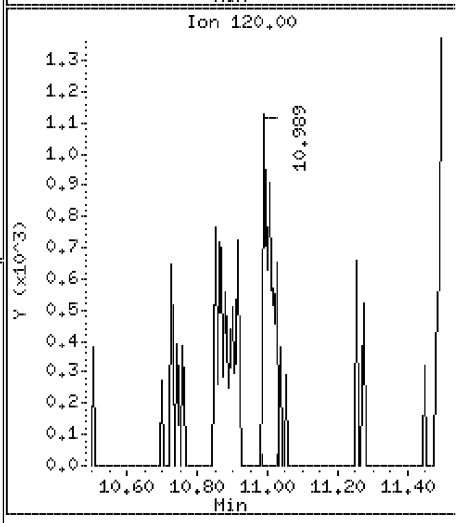
79 1,3,5-Trimethylbenzene

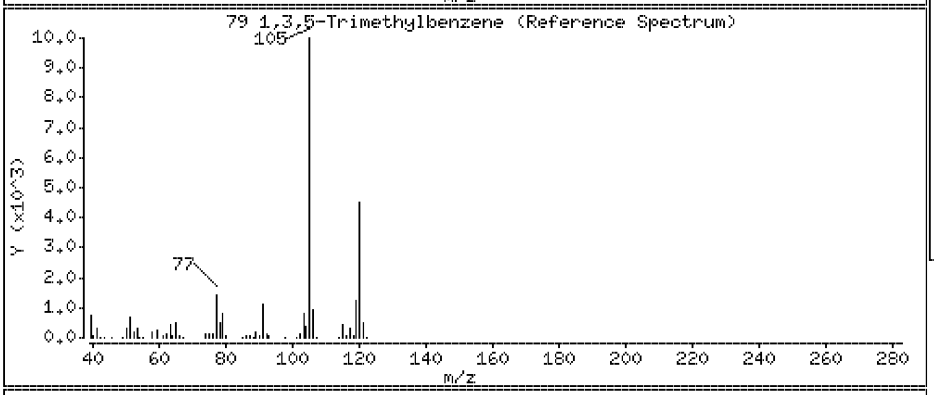
Concentration: 0.270 ppbv

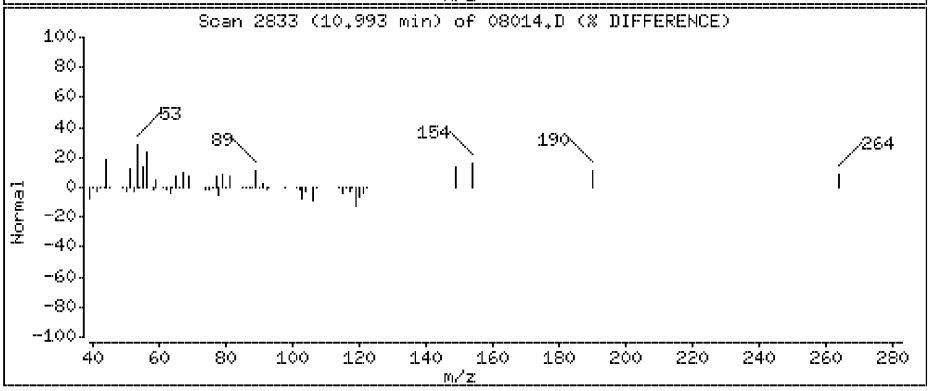












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

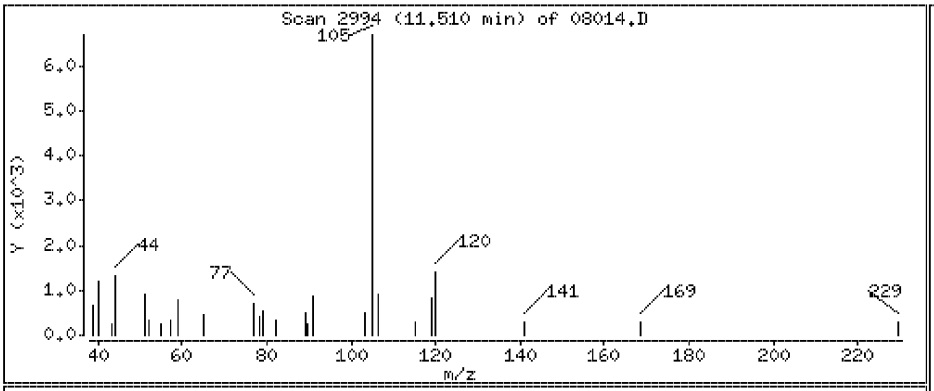
Operator: NCK

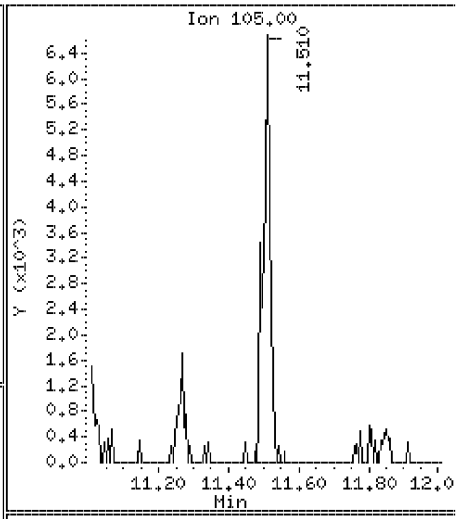
Column phase: J&W DB-5

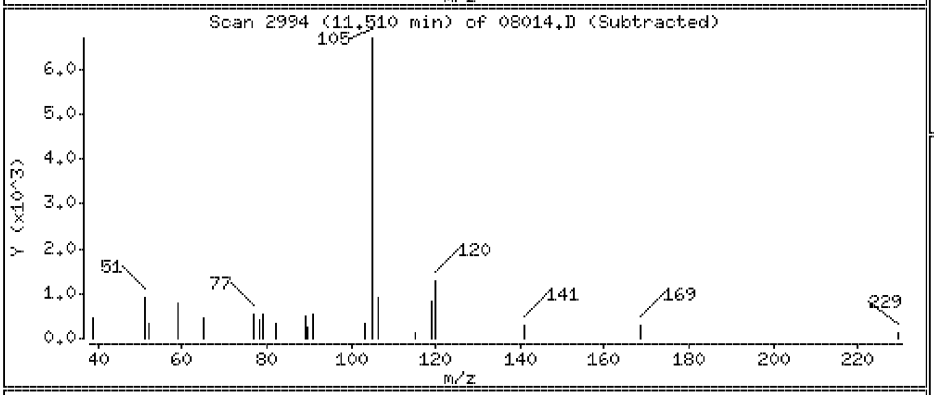
Column diameter: 0.32

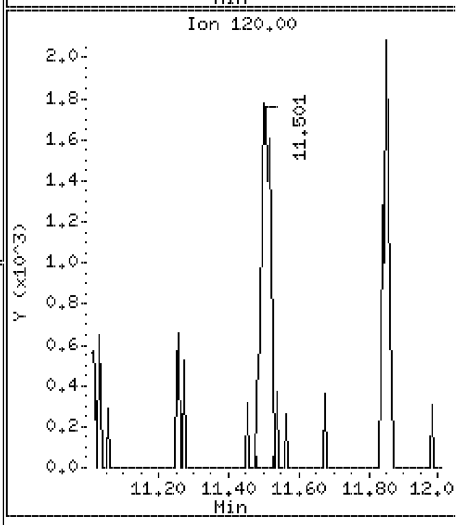
82 1,2,4-Trimethylbenzene

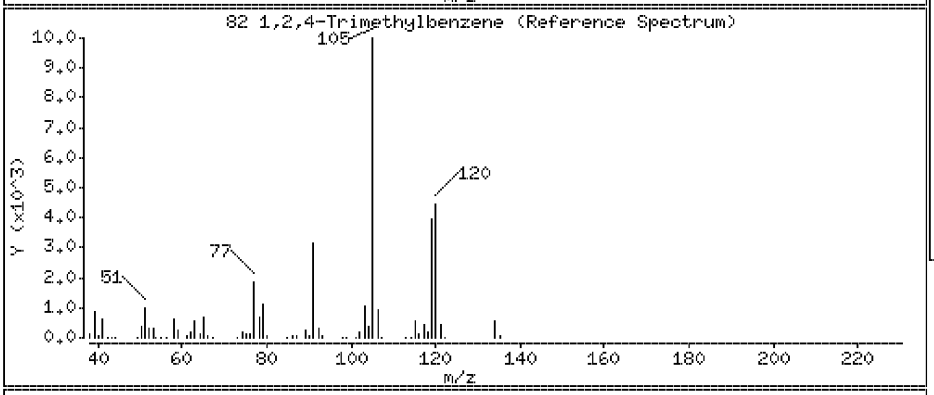
Concentration: 0.295 ppbv

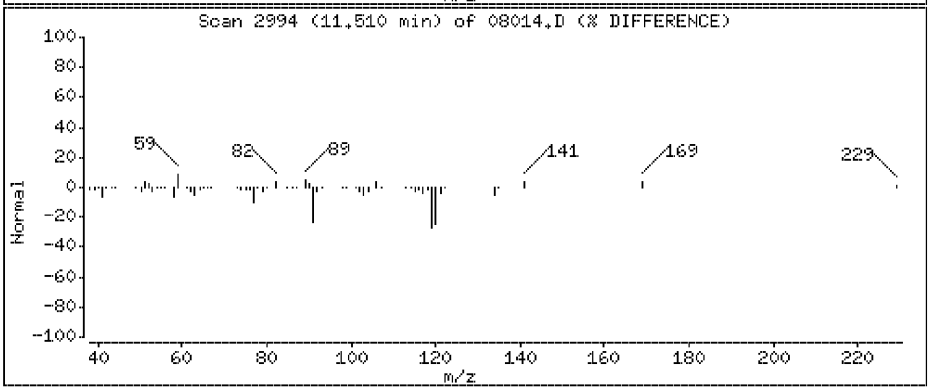












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

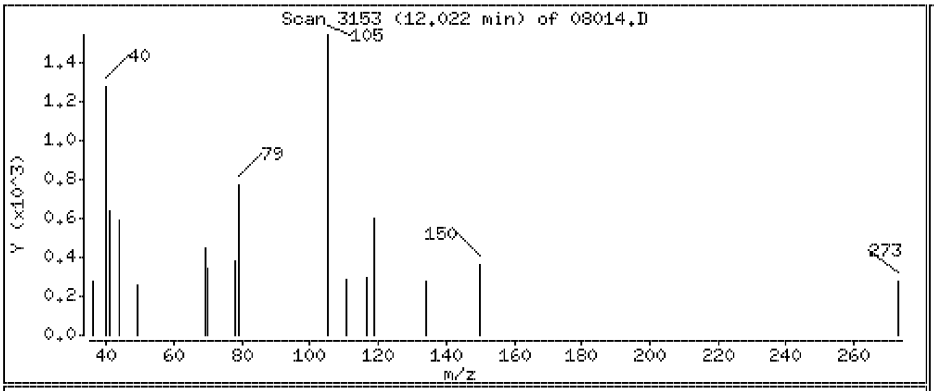
Operator: NCK

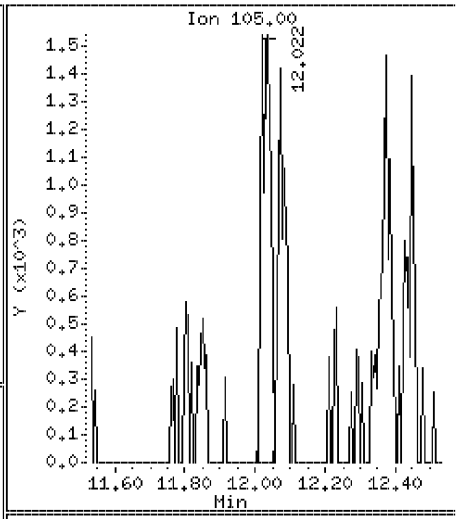
Column phase: J&W DB-5

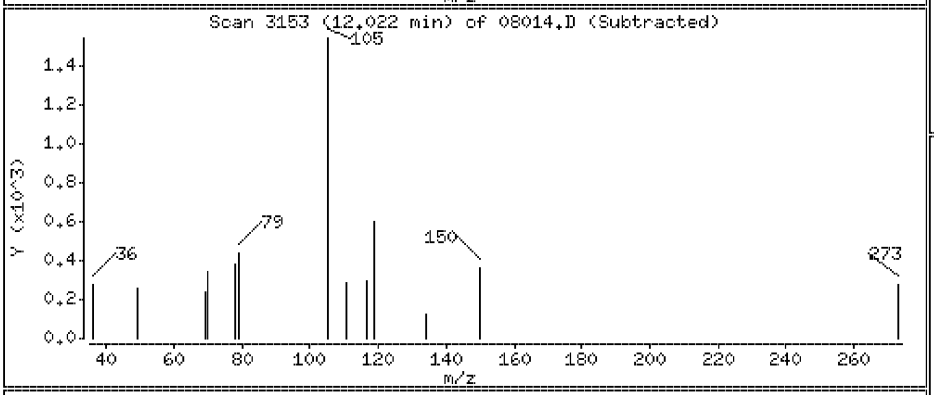
Column diameter: 0.32

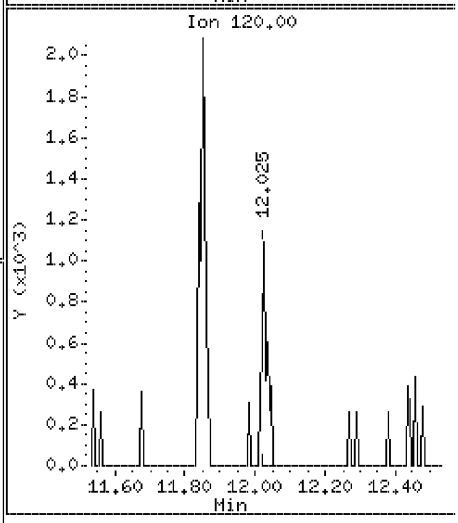
89 1,2,3-Trimethylbenzene

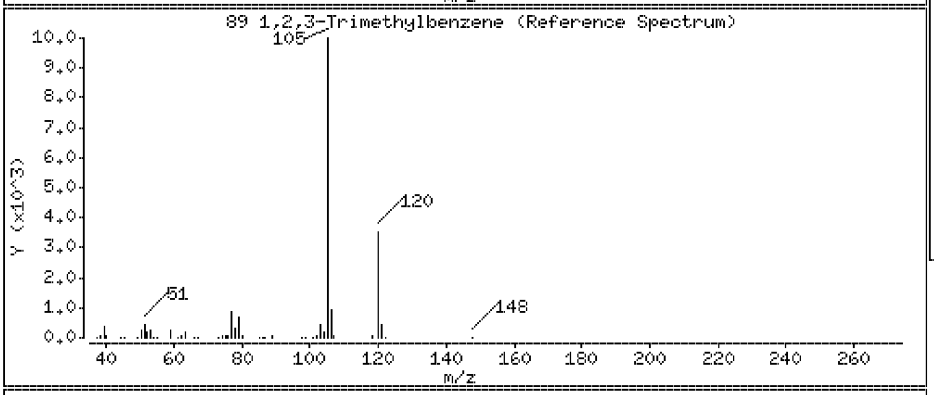
Concentration: 0.281 ppbv

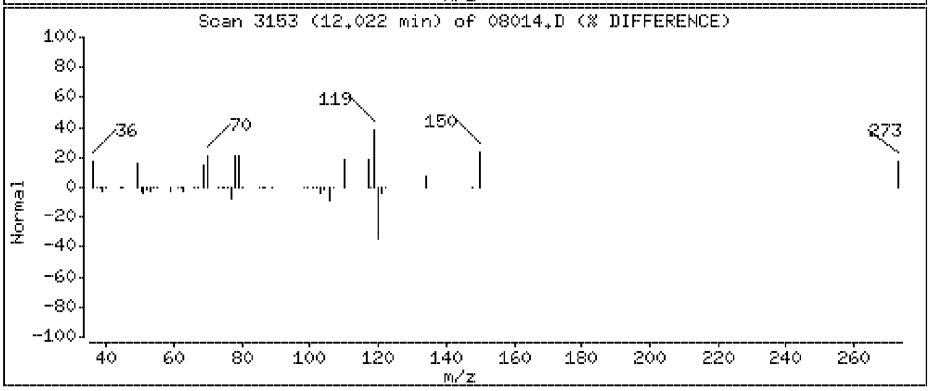












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08014.D

Date : 21-MAR-2017 15:13

Client ID:

Instrument: 10airB.i

Sample Info:

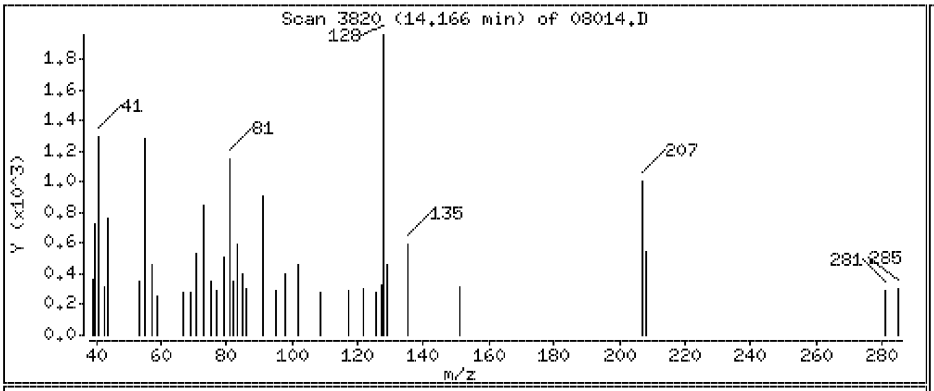
Operator: NCK

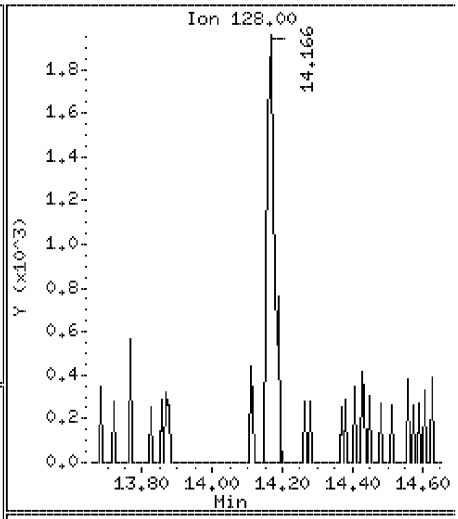
Column phase: J&W DB-5

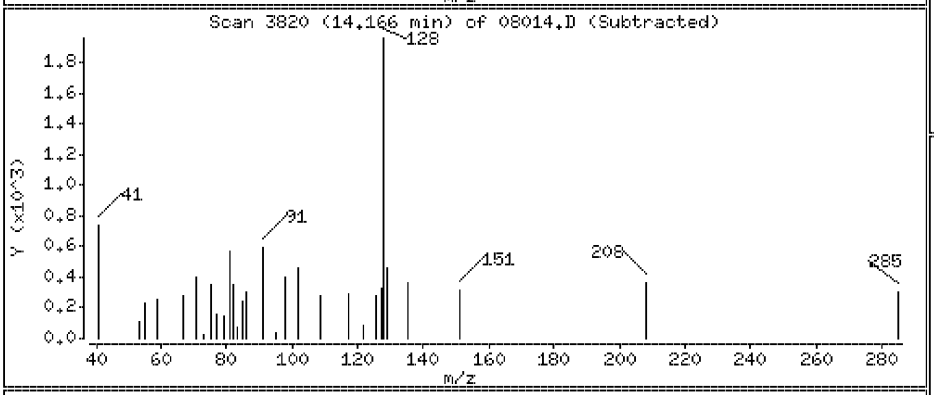
Column diameter: 0.32

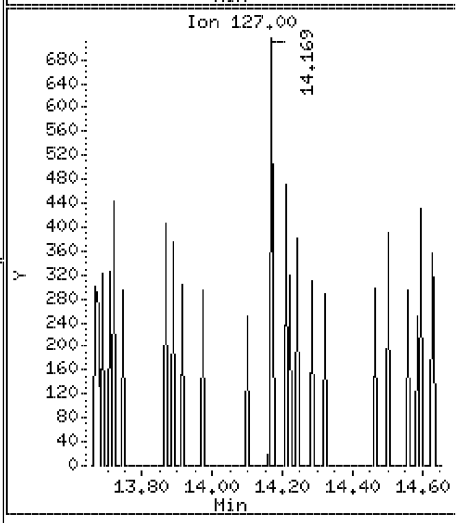
94 Naphthalene

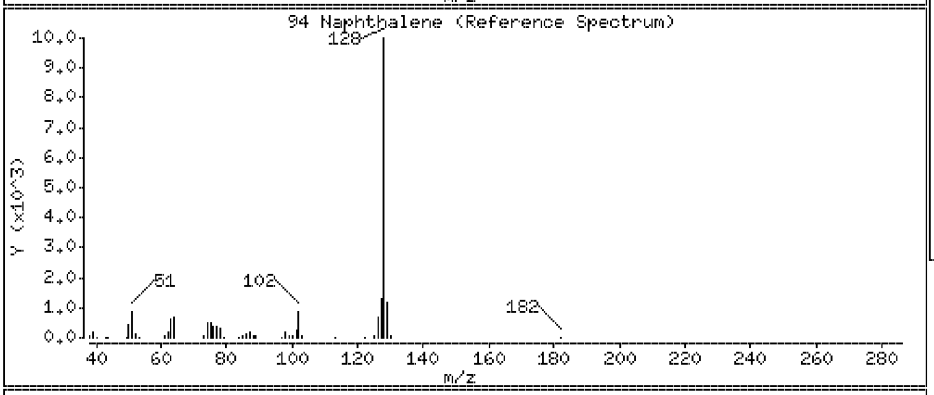
Concentration: 0.787 ppbv

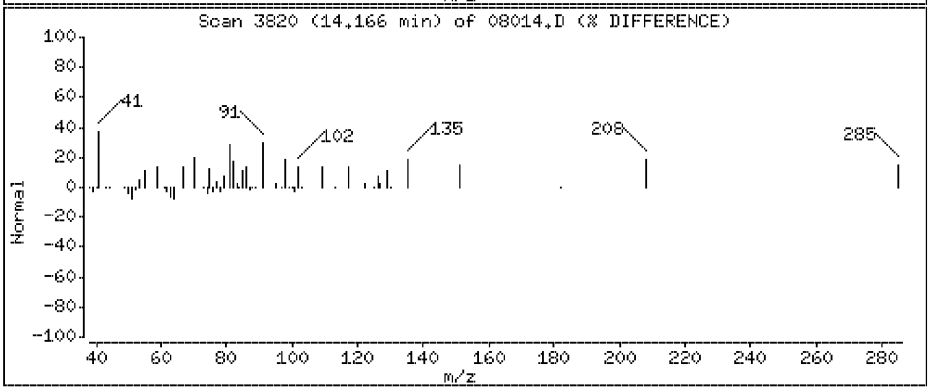






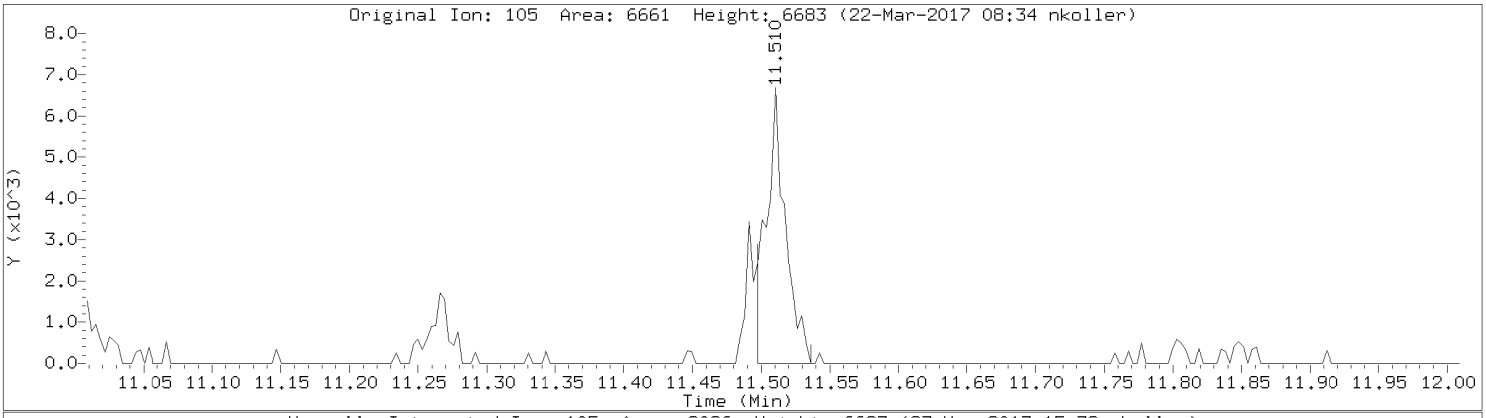


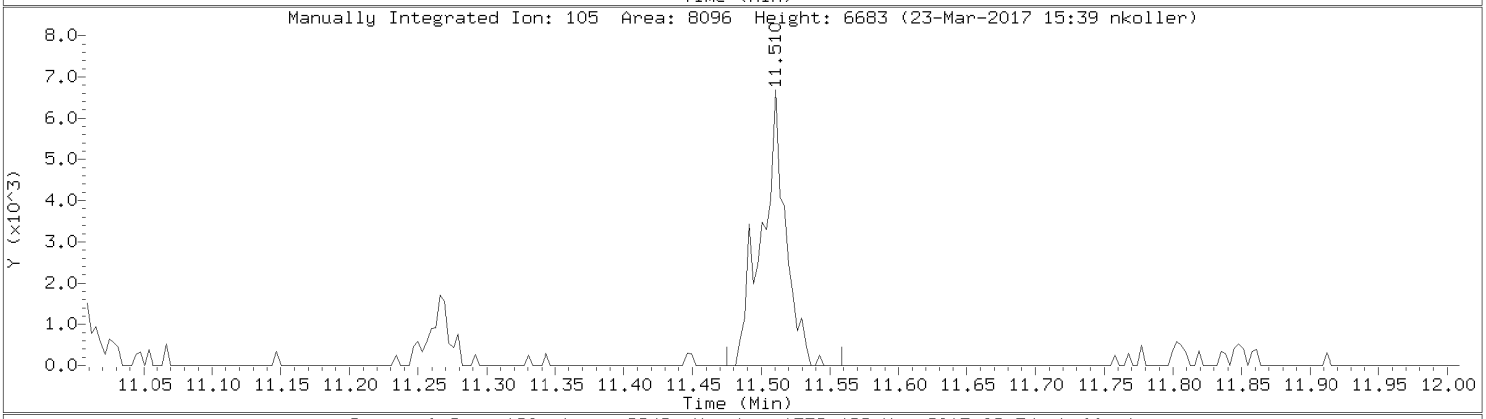


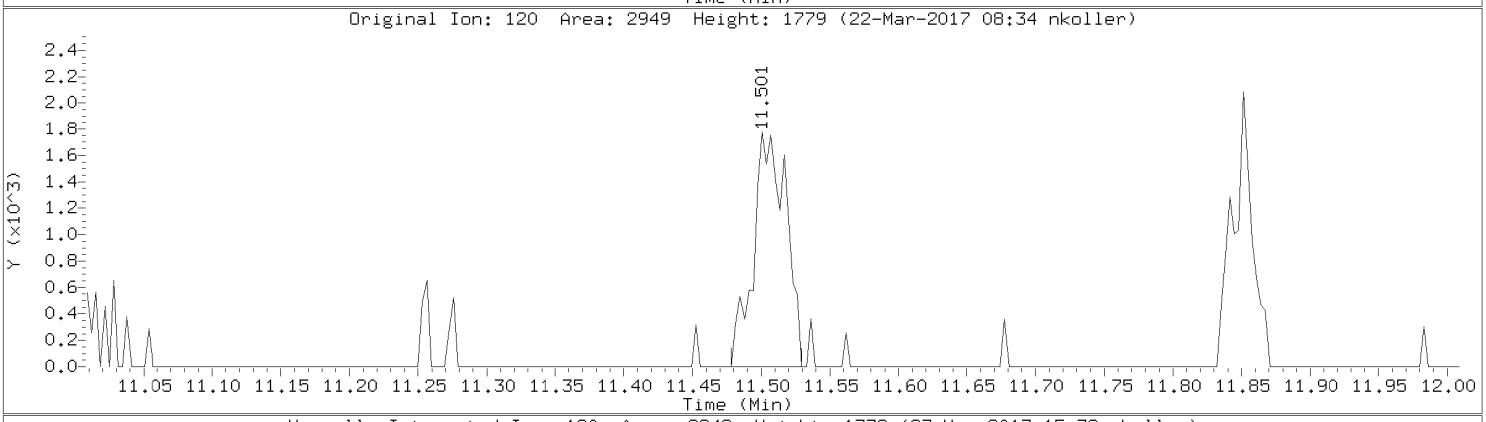


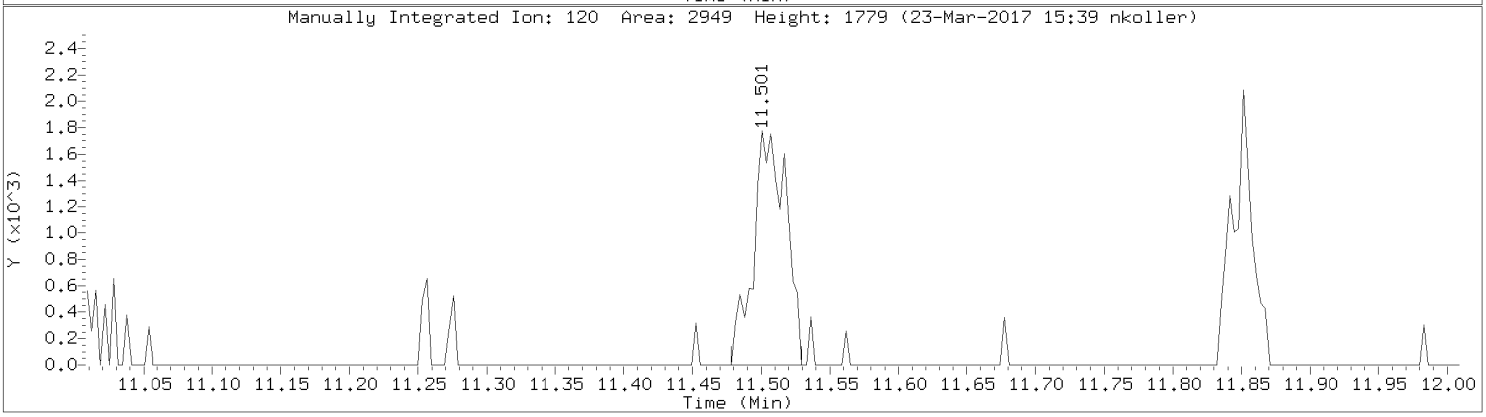
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08014.D
Injection Date: 21-MAR-2017 15:13
Instrument: 10airB.i
Lab Sample ID: 10381035004

Compound: 1,2,4-Trimethylbenzene
CAS Number: 95-63-6



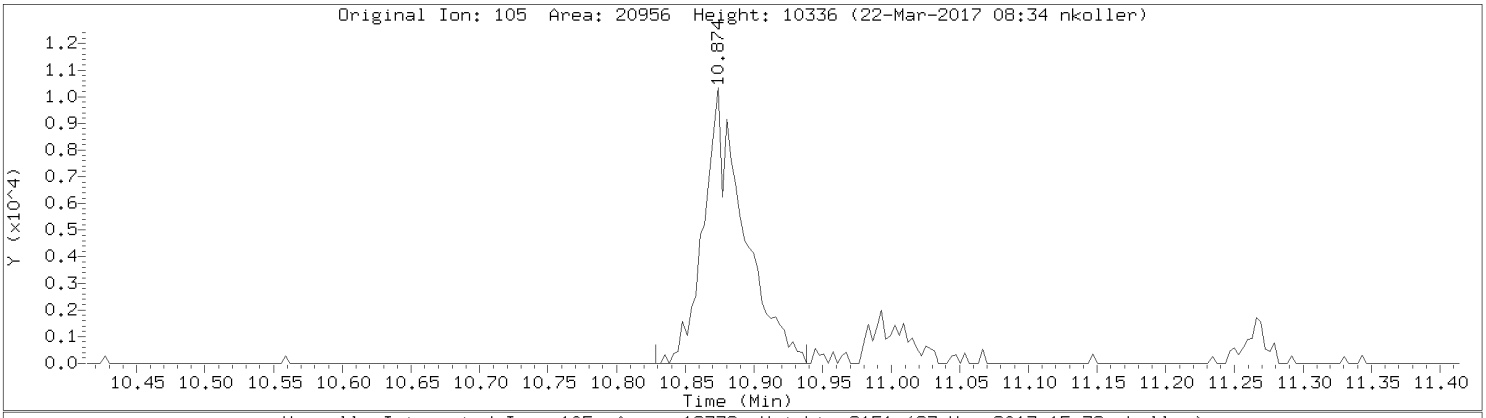


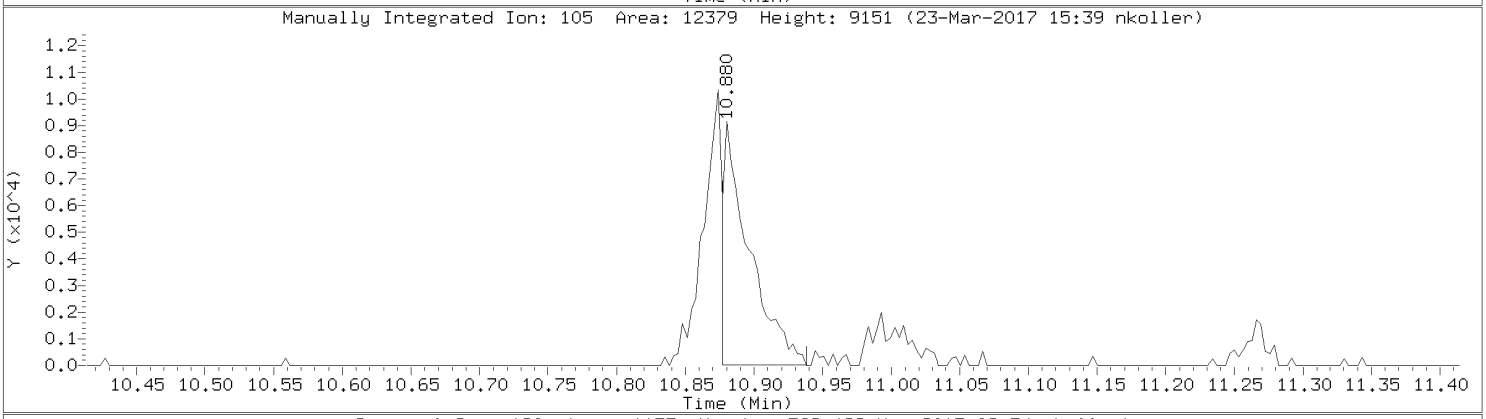


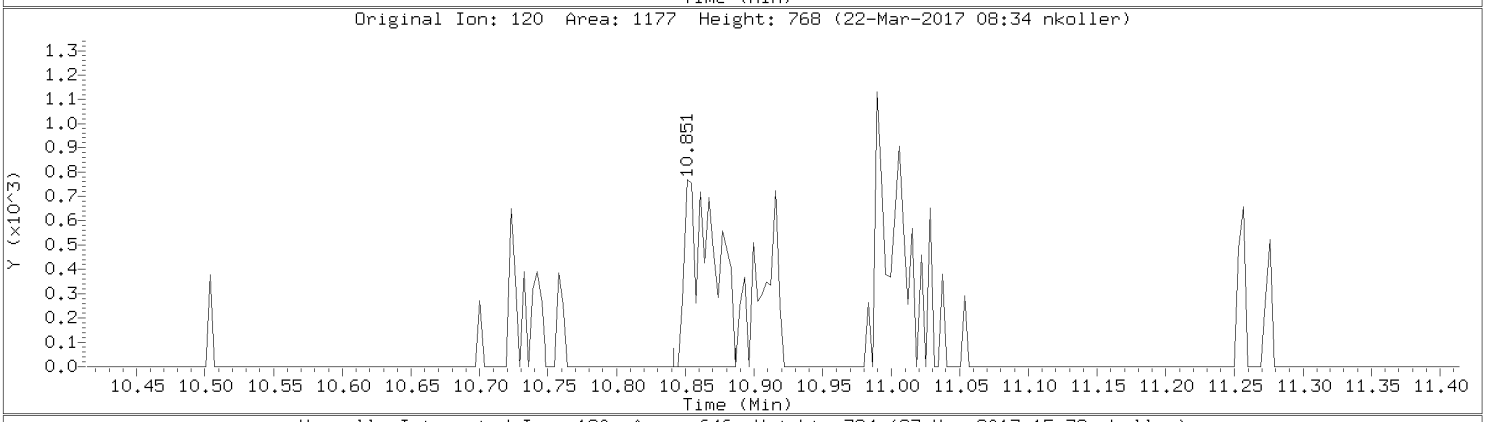


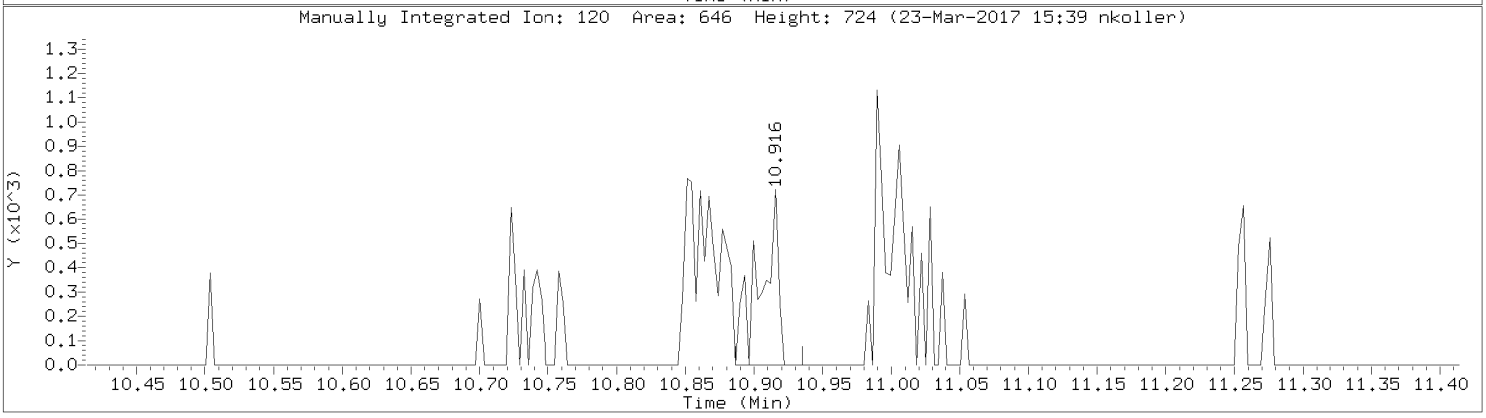
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08014.D
Injection Date: 21-MAR-2017 15:13
Instrument: 10airB.i
Lab Sample ID: 10381035004

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

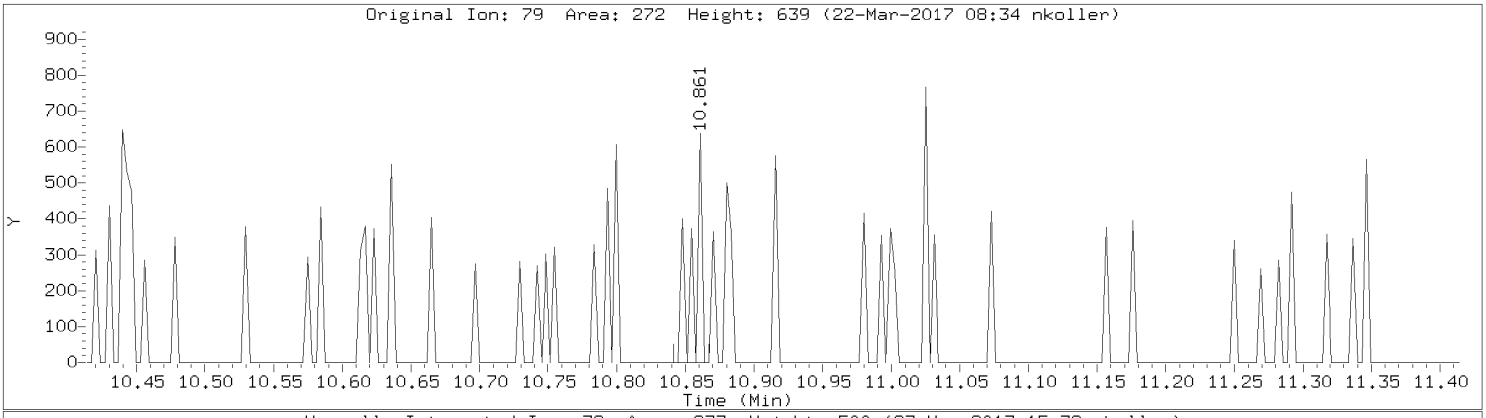


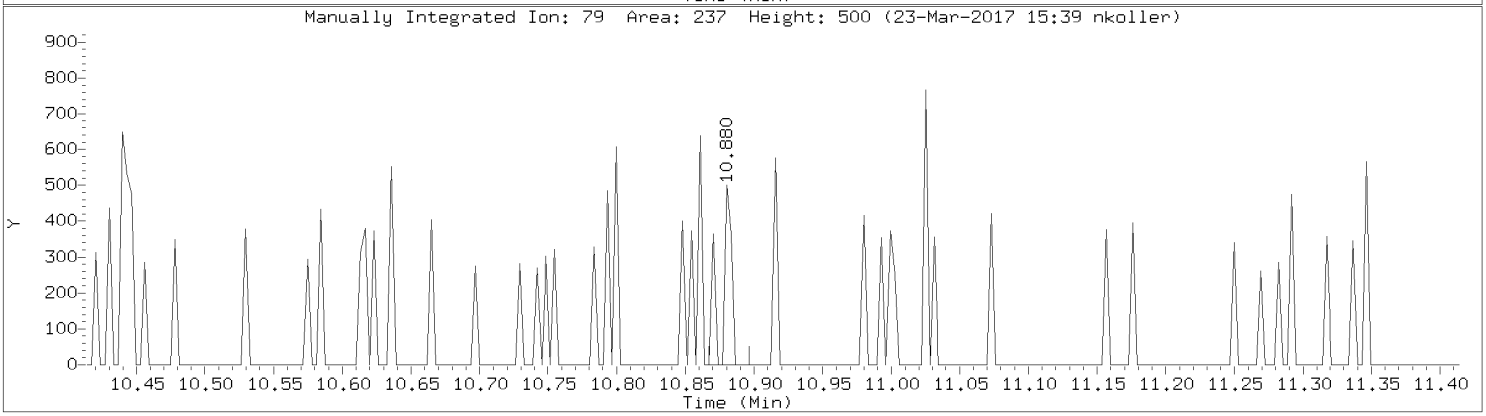






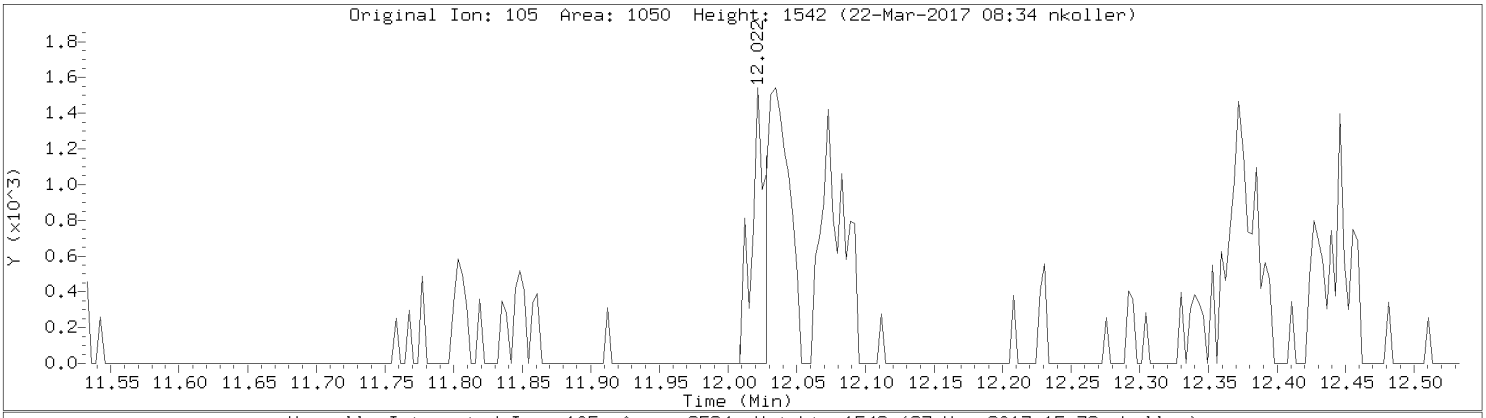
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08014.D
Injection Date: 21-MAR-2017 15:13
Instrument: 10airB.i
Lab Sample ID: 10381035004

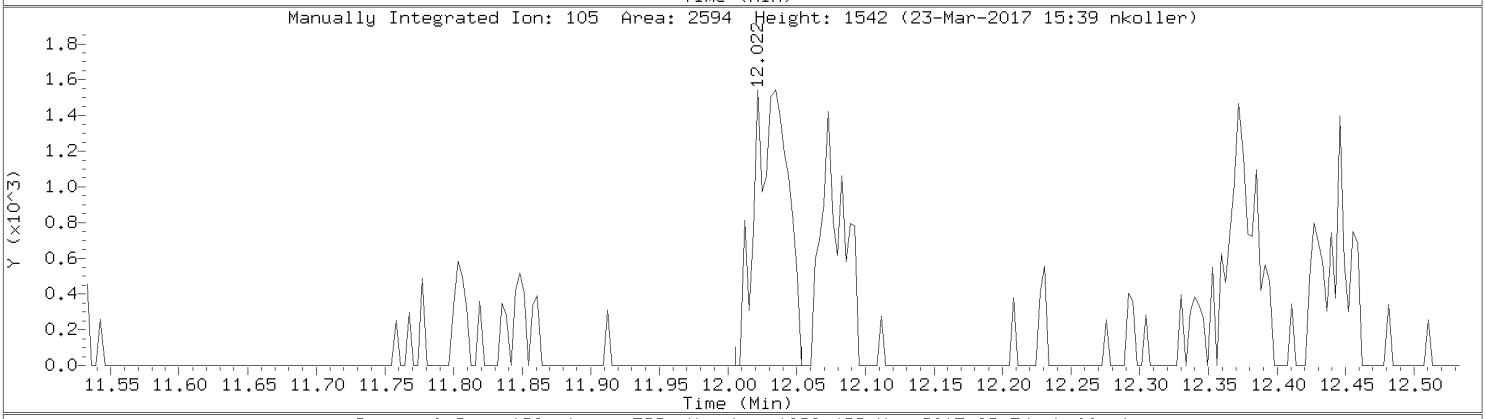


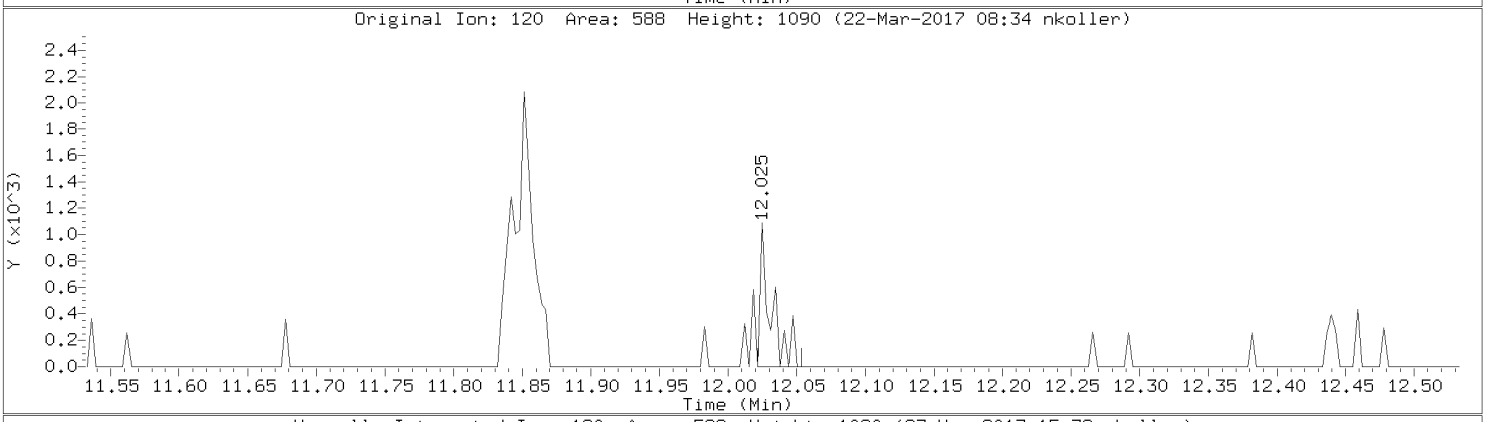


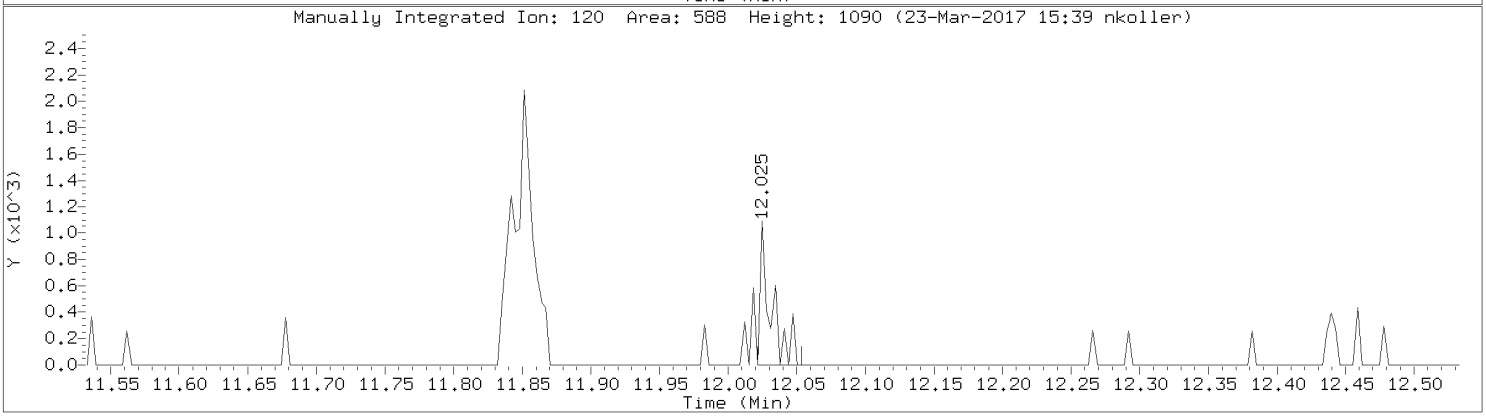
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08014.D
Injection Date: 21-MAR-2017 15:13
Instrument: 10airB.i
Lab Sample ID: 10381035004

Compound: 1,2,3-Trimethylbenzene
CAS Number: 526-73-8









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_5_20170302 **Lab ID: 10381035005** Collected: 03/02/17 12:00 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**18.2**	ug/m3	4.2	1.5	1.75		03/21/17 15:44	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 15:44	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 15:44	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 15:44	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 15:44	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 15:44	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 15:44	106-99-0	
2-Butanone (MEK)	**3.2J**	ug/m3	5.2	0.40	1.75		03/21/17 15:44	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 15:44	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 15:44	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 15:44	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 15:44	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 15:44	75-00-3	
Chloroform	**1.7**	ug/m3	0.87	0.33	1.75		03/21/17 15:44	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 15:44	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 15:44	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 15:44	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 15:44	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 15:44	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 15:44	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 15:44	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 15:44	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 15:44	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 15:44	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 15:44	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 15:44	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 15:44	75-35-4	
cis-1,2-Dichloroethene	**2.5**	ug/m3	1.4	0.43	1.75		03/21/17 15:44	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 15:44	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 15:44	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 15:44	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 15:44	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 15:44	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 15:44	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 15:44	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 15:44	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.8	0.33	1.75		03/21/17 15:44	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 15:44	87-68-3	
n-Hexane	**1.0J**	ug/m3	1.3	0.62	1.75		03/21/17 15:44	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 15:44	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 15:44	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 15:44	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 15:44	108-87-2	
Methylene Chloride	**<0.95**	ug/m3	6.2	0.95	1.75		03/21/17 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 15:44	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 15:44	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D
Report Date: 23-Mar-2017 15:43

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08015.D
Lab Smp Id: 10381035005
Inj Date : 21-MAR-2017 15:44
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 15
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.552	3.545	(0.634)	49792	2.05297	3.59	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.645	3.677	(0.651)	19873	0.15159	0.265	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.713	3.722	(0.663)	451714	4.31379	7.55	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.925	3.951	(0.701)	5268	0.05274	0.0923(H)	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D
Report Date: 23-Mar-2017 15:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.436	4.388	(0.792)	85182	0.54130	0.947(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.800)	2083920	9.38501	9.39	
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.814)	14842	0.61464	1.08	
	34 n-Hexane	57	4.565	4.587	(0.815)	17917	0.16129	0.282(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.700	4.725	(0.839)	20004	0.35386	0.619(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.859)	23100	0.19562	0.342	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.214	5.233	(0.931)	161045	1.16095	2.03	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	6478475	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.986	(1.067)	198088	2.27053	3.97	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5691759	9.54070	9.54	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.150	7.153	(1.277)	25008	0.11540	0.202	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.581	(0.876)	36370	0.23510	0.411(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	2683382	28.1044	49.2	
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	4209127	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	9.497	9.468	(1.099)	24506	0.18899	0.331(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D
Report Date: 23-Mar-2017 15:43

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppbv)	(ppbv)	
	78	4-Ethyltoluene	105	10.892	10.915	(1.260)	3368	0.17094	0.299(QM)	
	79	1,3,5-Trimethylbenzene	105	11.008	10.998	(1.274)	2878	0.15216	0.266(Q)	
	80	n-Decane	57	11.378	11.381	(2.032)	29432	0.22676	0.397(Q)	
	81	Tert-Butyl Benzene	119	Compound Not Detected.						
	82	1,2,4-Trimethylbenzene	105	11.503	11.510	(1.331)	3943	0.14848	0.260(Q)	
	83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
	84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$	85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	1933417	9.51863	9.52	
	86	Benzyl Chloride	91	Compound Not Detected.						(D)
	87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
	88	p-Isopropyltoluene	119	Compound Not Detected.						
	89	1,2,3-Trimethylbenzene	105	12.027	12.034	(1.392)	1070	0.15281	0.267	
	90	1,2-Dichlorobenzene	146	Compound Not Detected.						
	91	N-Butylbenzene	91	Compound Not Detected.						
	92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
	93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	94	Naphthalene	128	Compound Not Detected.						
	95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D
Report Date: 23-Mar-2017 15:43

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08015.D
Lab Smp Id: 10381035005
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

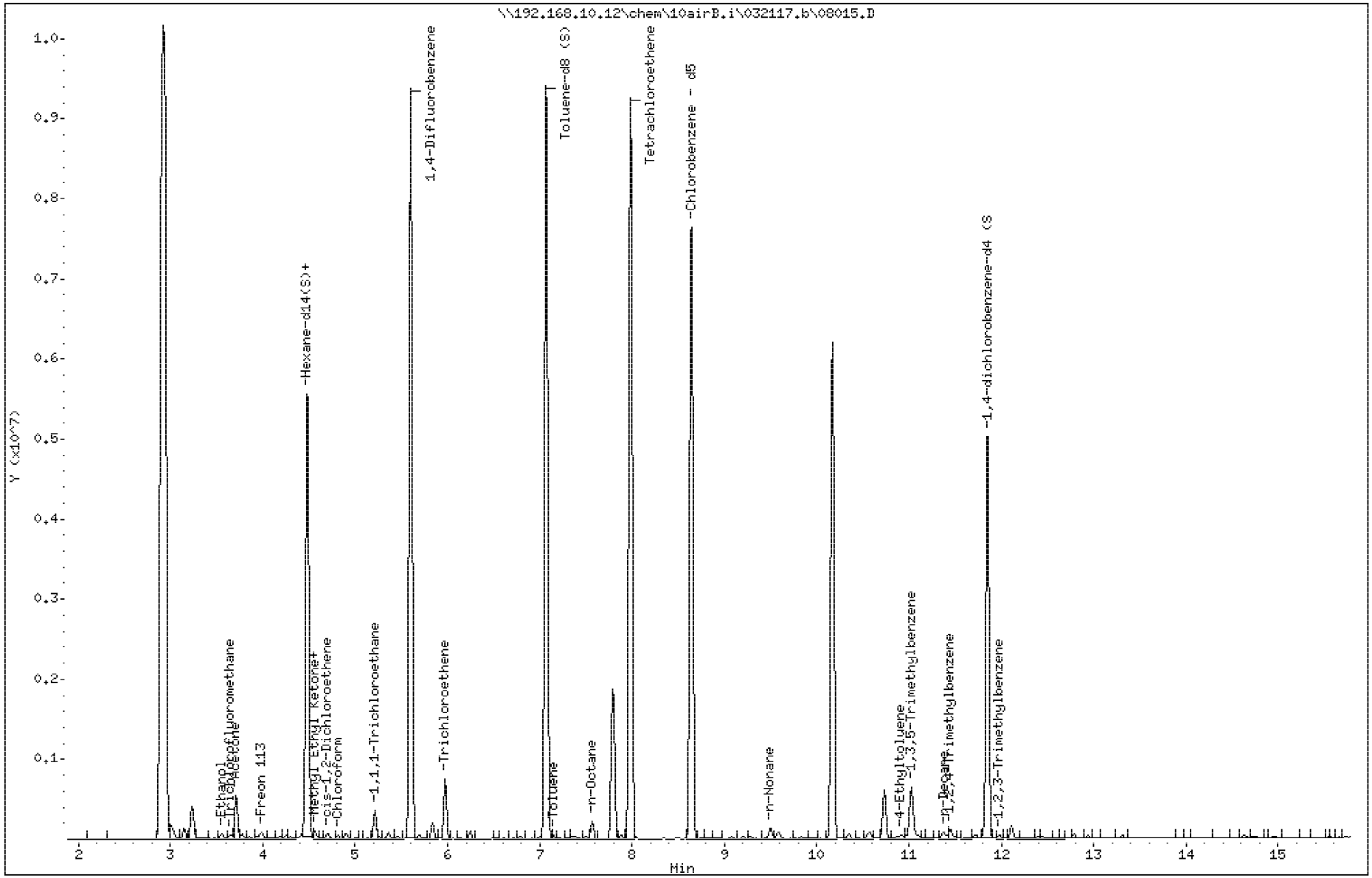
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6478475	-15.22
67 Chlorobenzene - d	5205948	3123569	7288327	4209127	-19.15

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D
Date : 21-MAR-2017 15:44
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

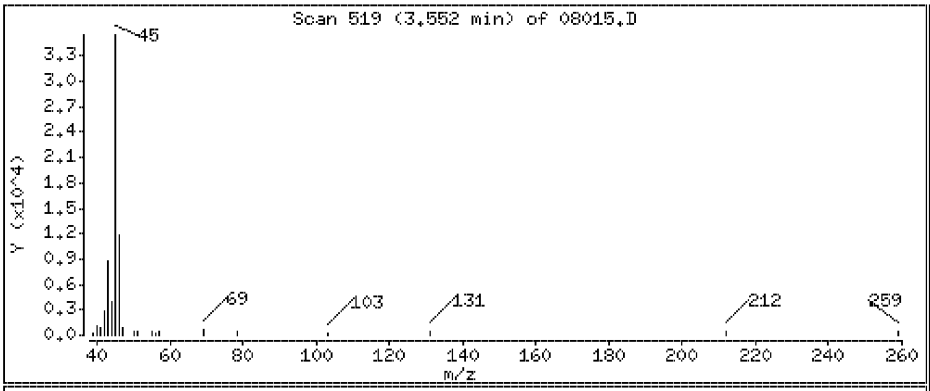
Operator: NCK

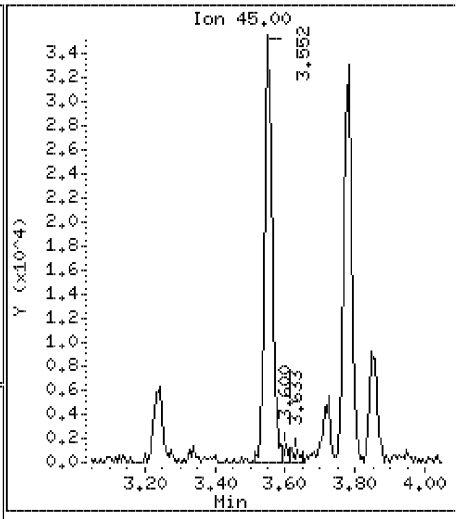
Column phase: J&W DB-5

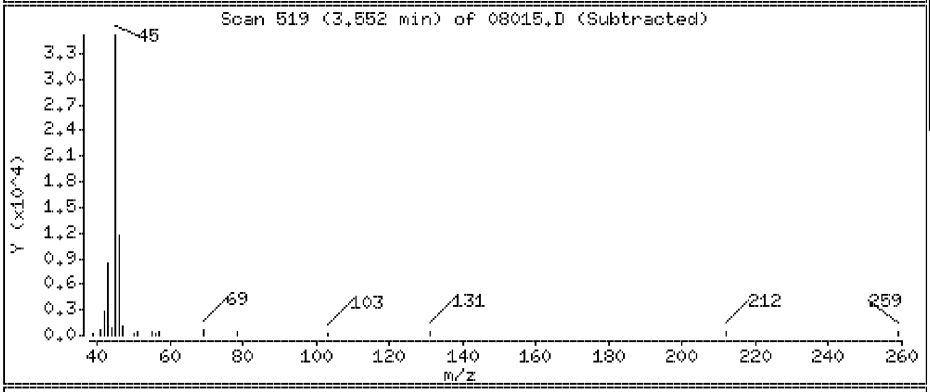
Column diameter: 0.32

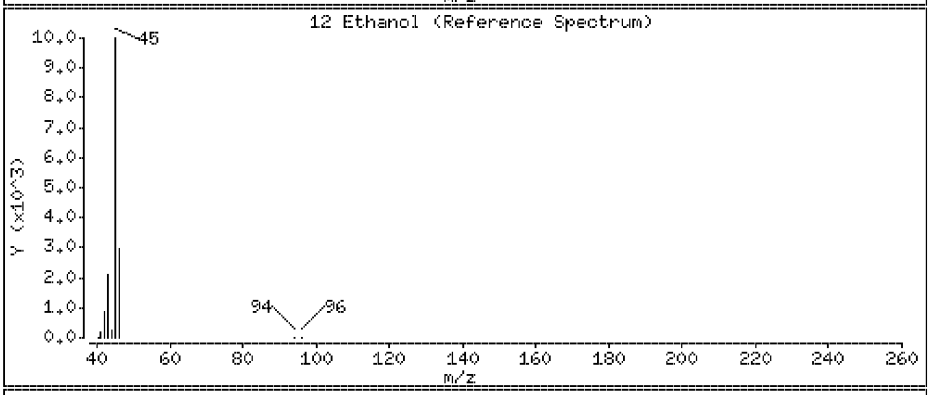
12 Ethanol

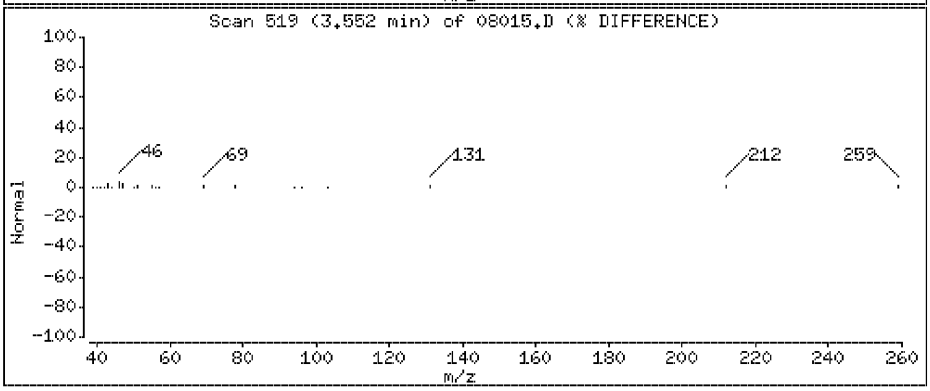
Concentration: 3.59 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

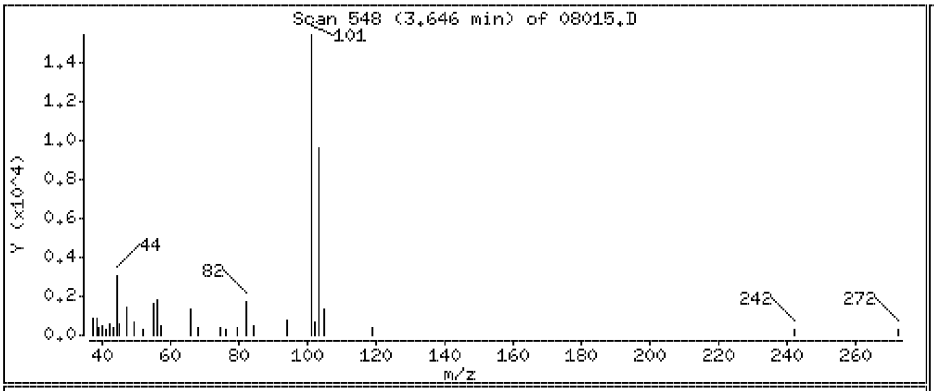
Operator: NCK

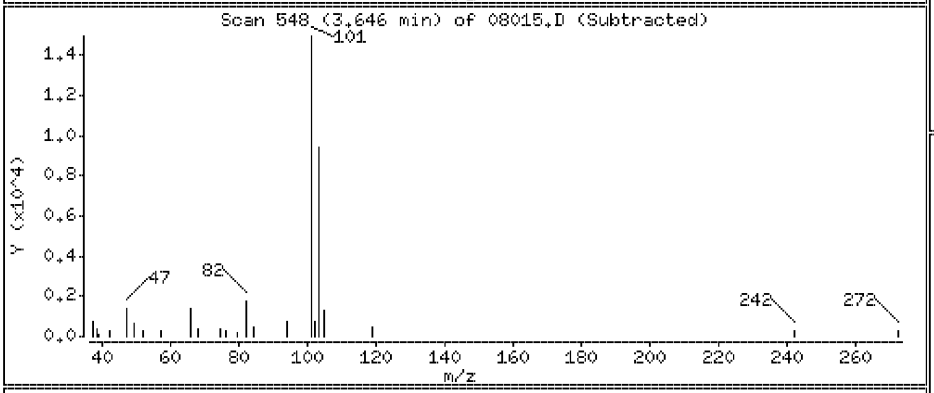
Column phase: J&W DB-5

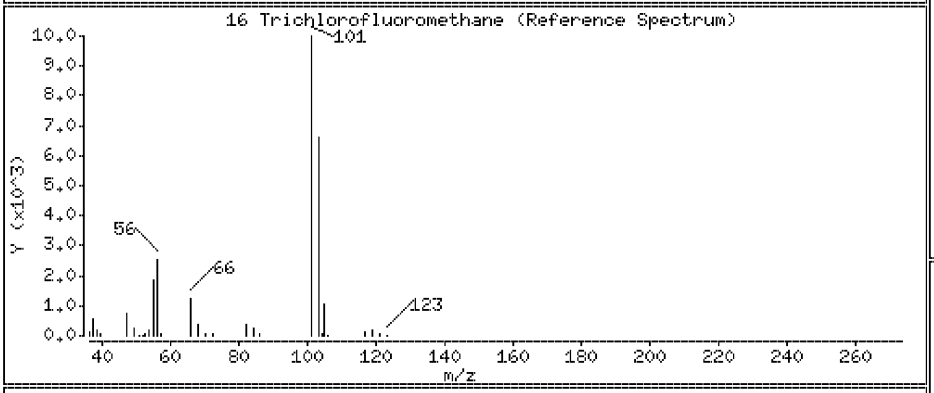
Column diameter: 0.32

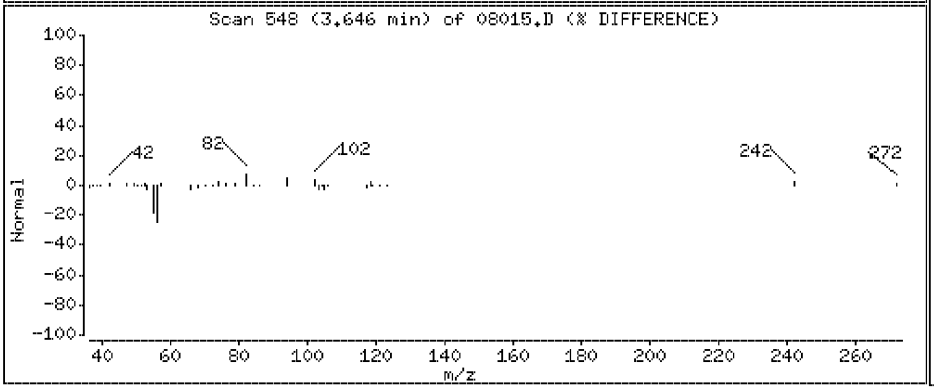
16 Trichlorofluoromethane

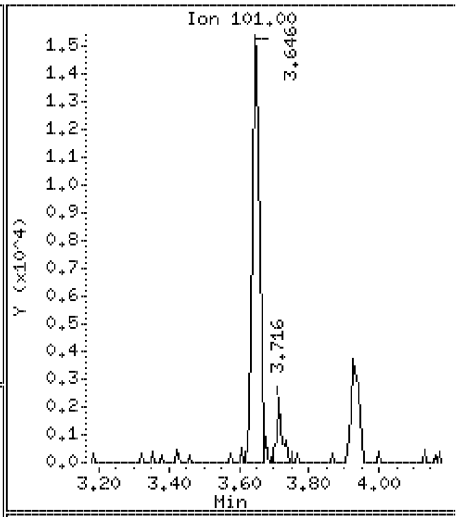
Concentration: 0.265 ppbv

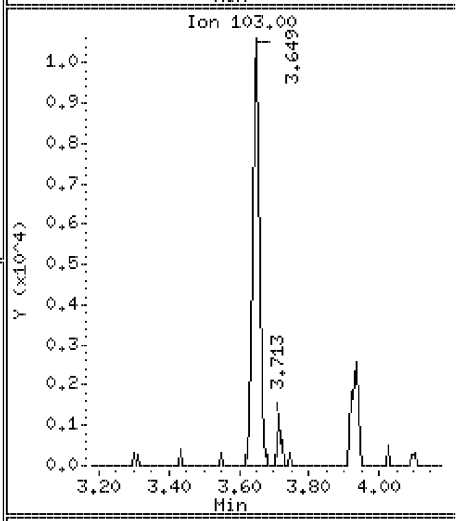


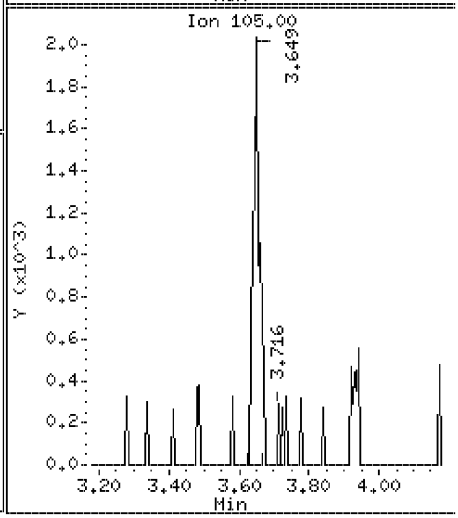












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

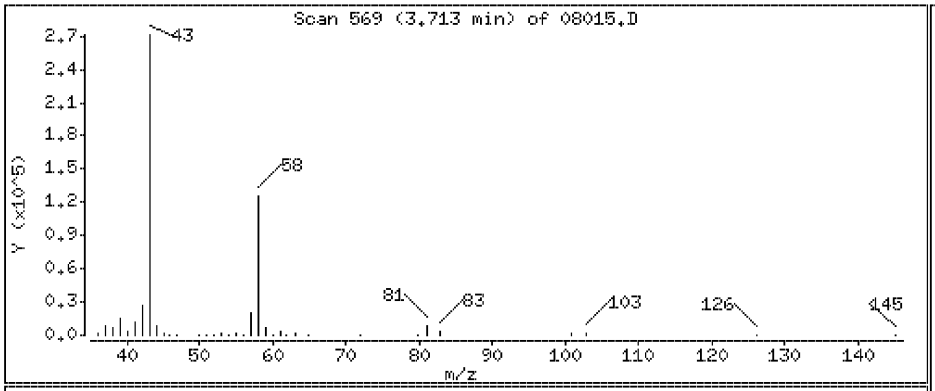
Operator: NCK

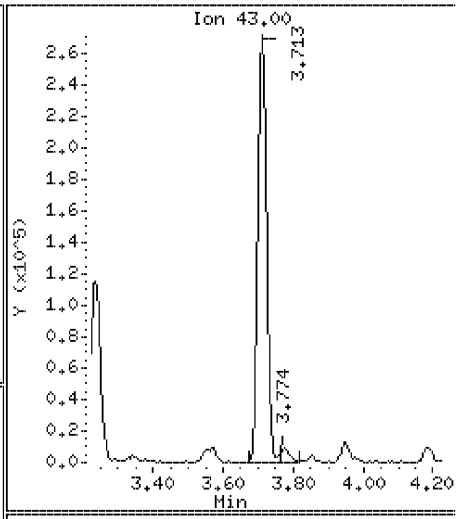
Column phase: J&W DB-5

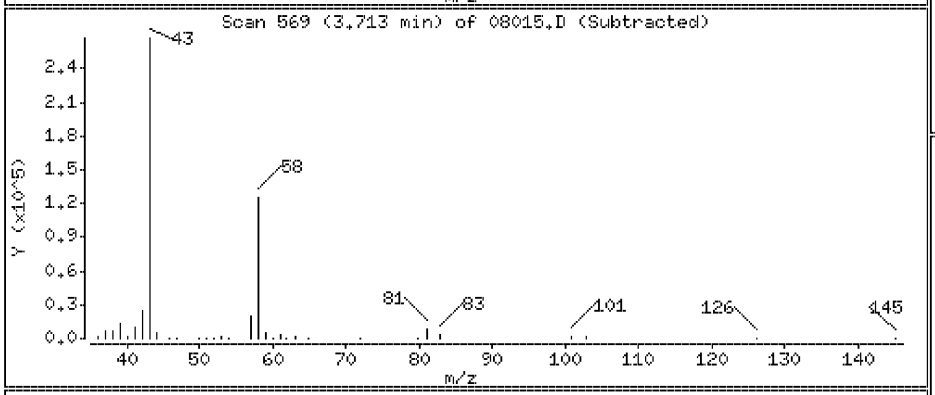
Column diameter: 0.32

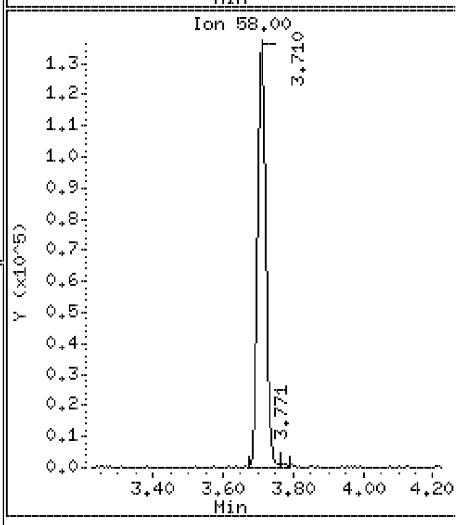
18 Acetone

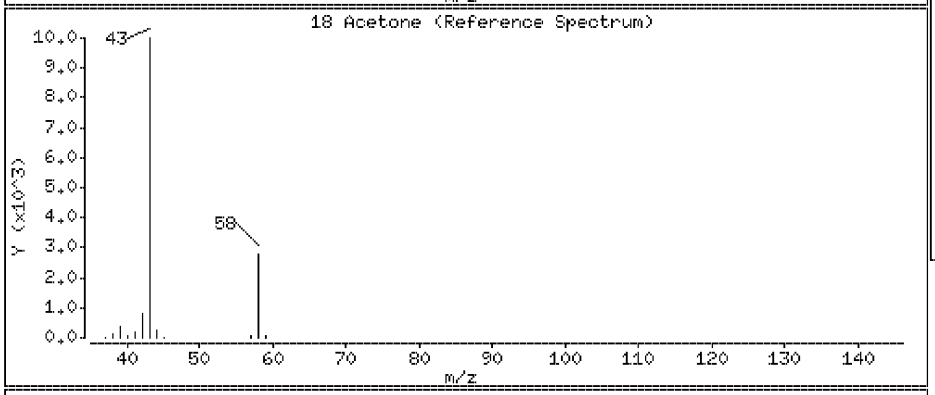
Concentration: 7.55 ppbv

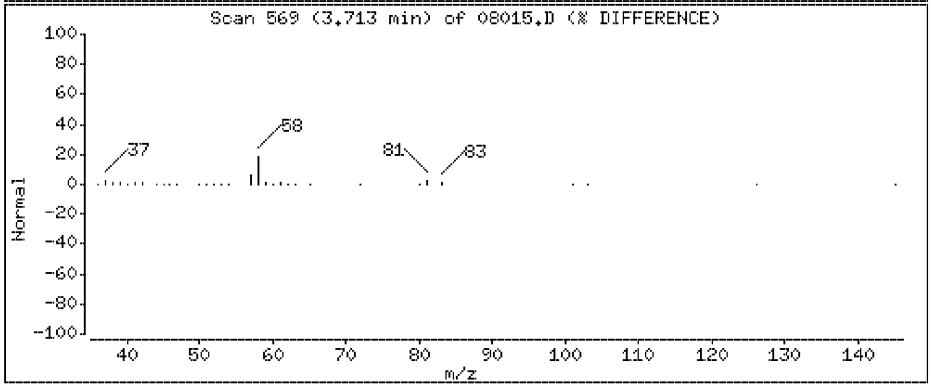












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

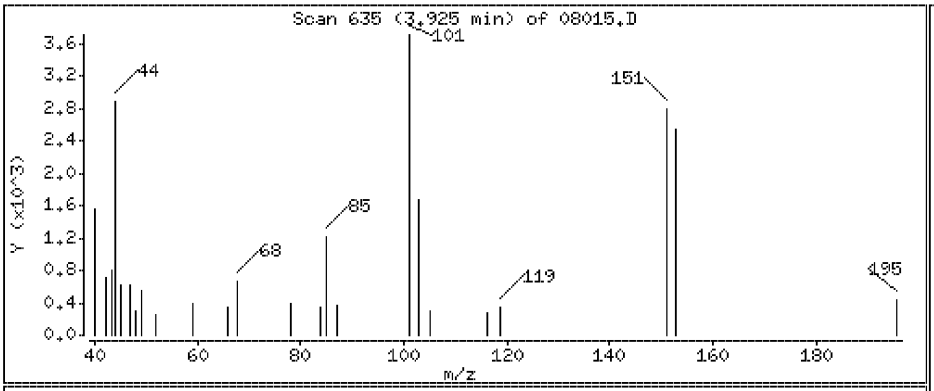
Operator: NCK

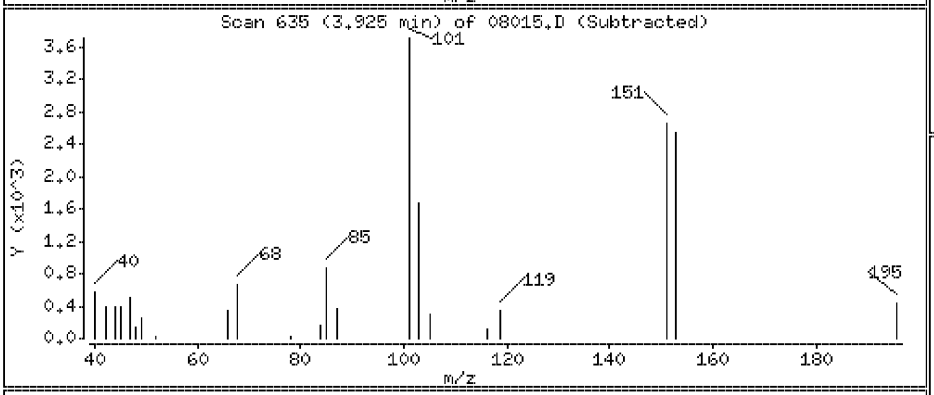
Column phase: J&W DB-5

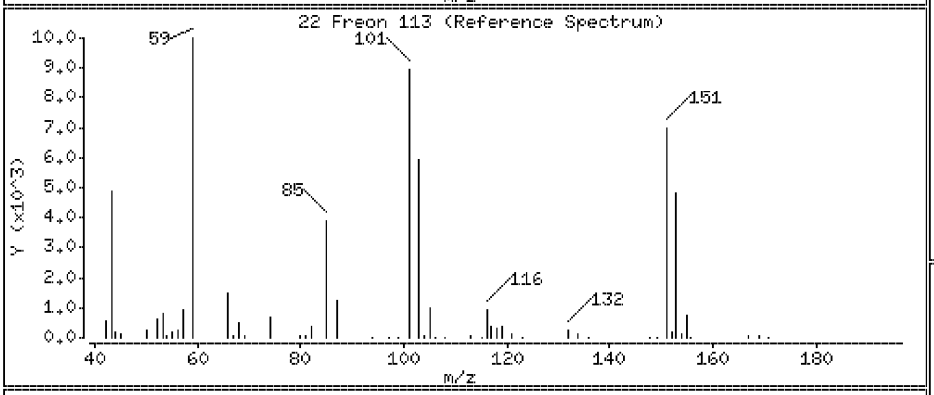
Column diameter: 0.32

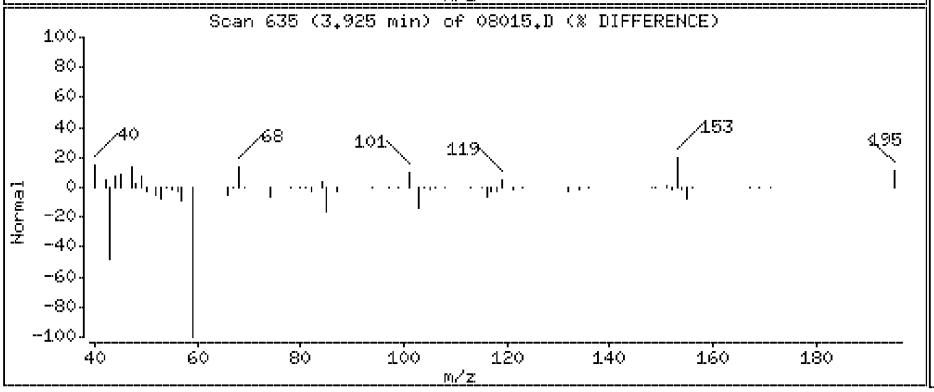
22 Freon 113

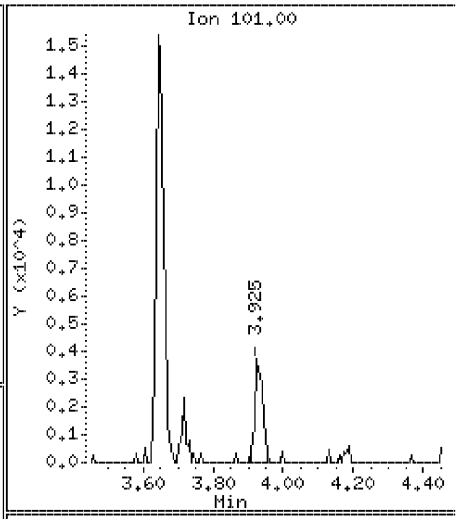
Concentration: 0.0923 ppbv

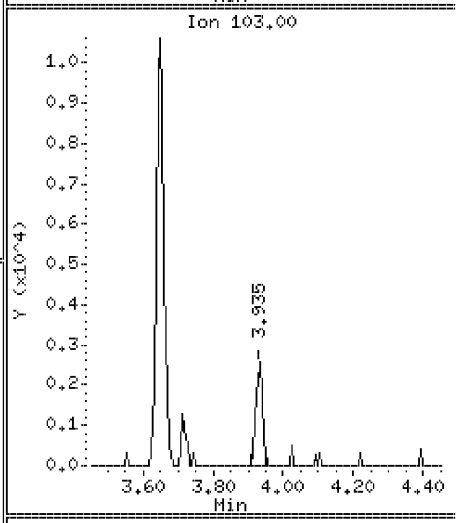


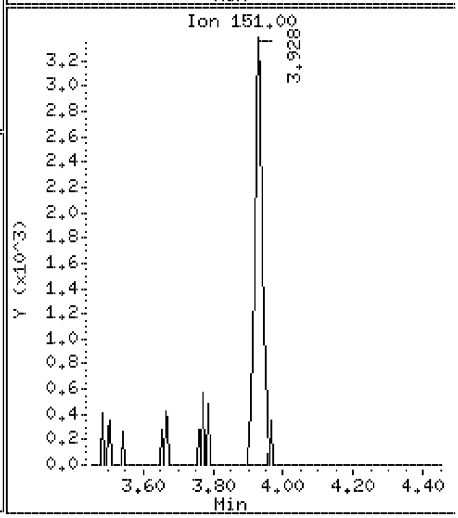












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

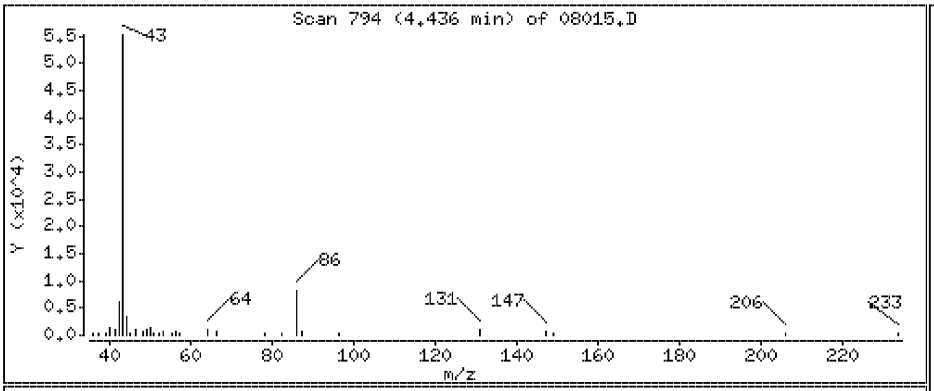
Operator: NCK

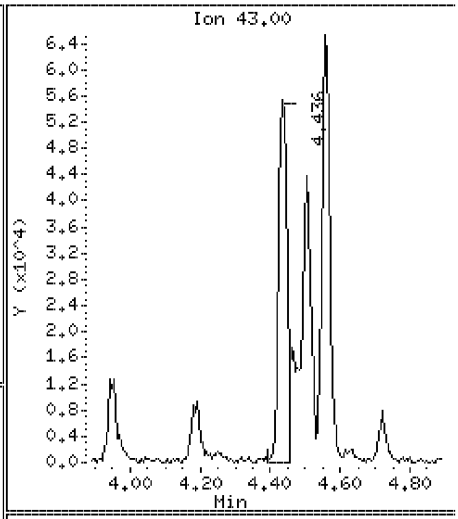
Column phase: J&W DB-5

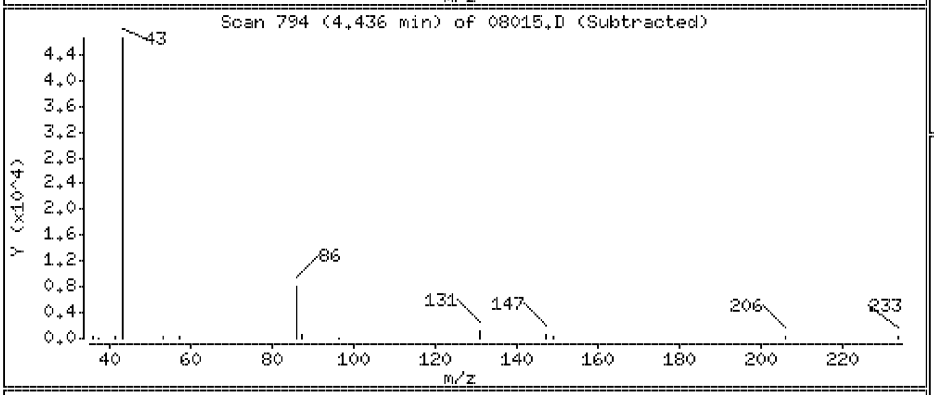
Column diameter: 0.32

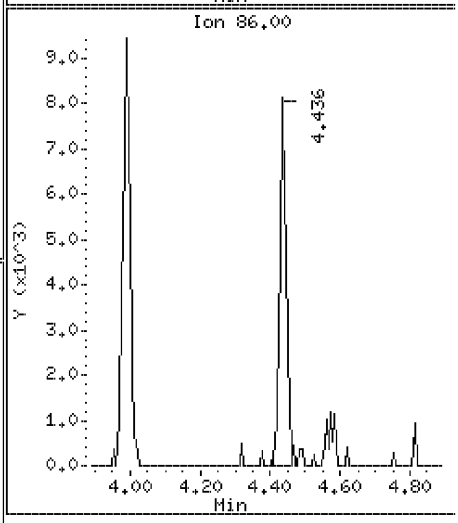
30 Vinyl Acetate

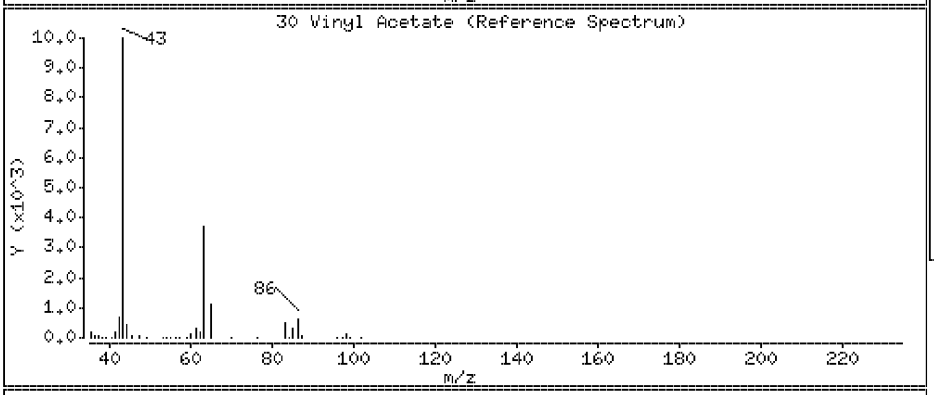
Concentration: 0.947 ppbv

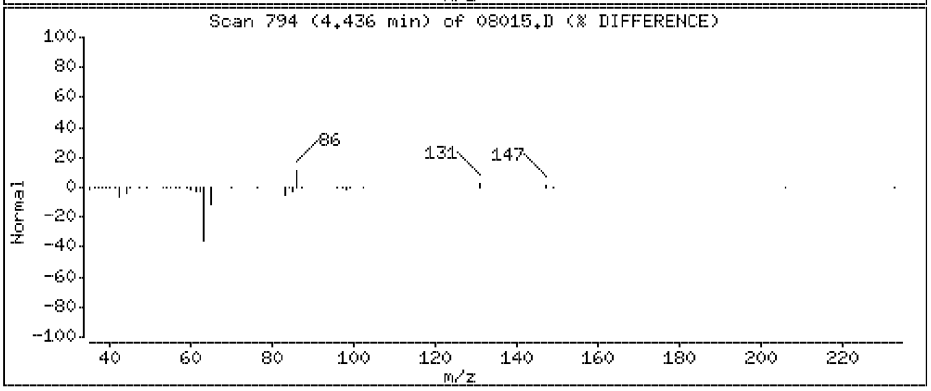












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

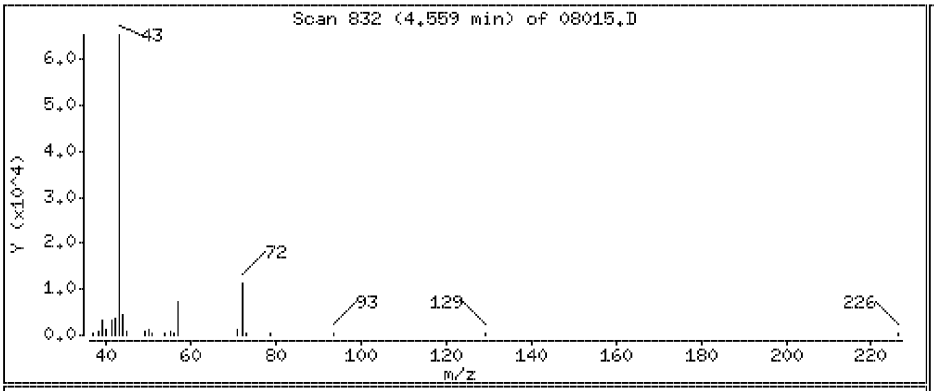
Operator: NCK

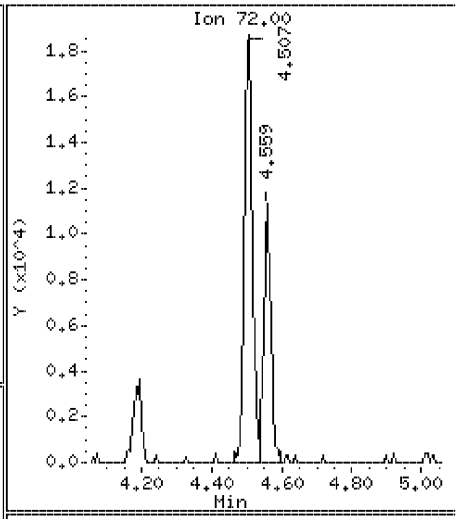
Column phase: J&W DB-5

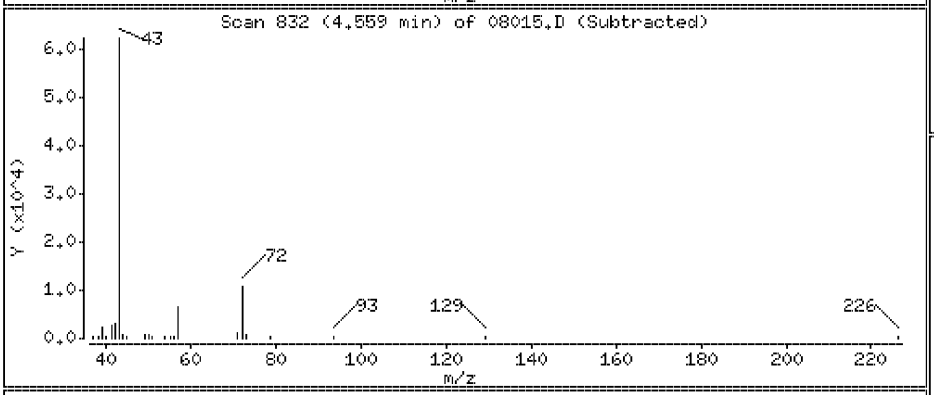
Column diameter: 0.32

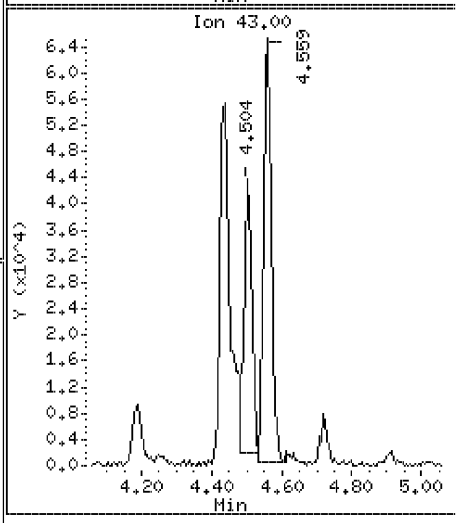
33 Methyl Ethyl Ketone

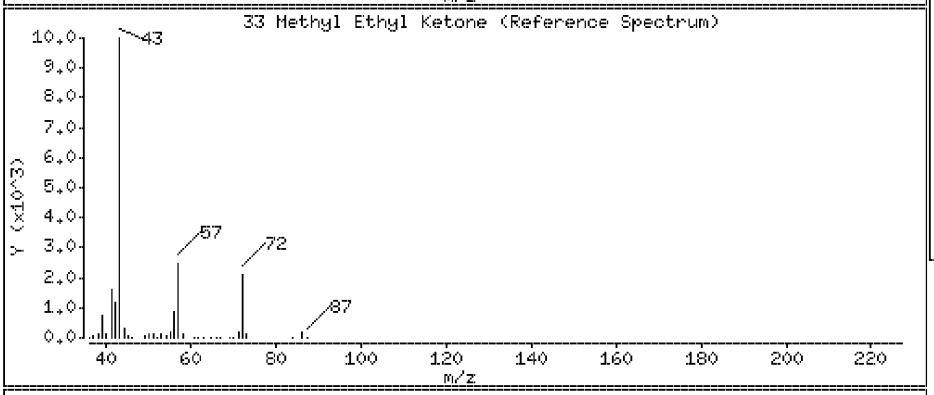
Concentration: 1.08 ppbv

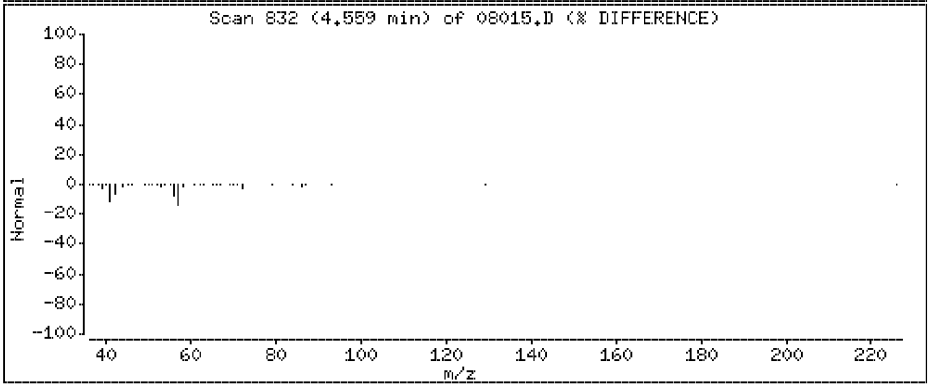












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

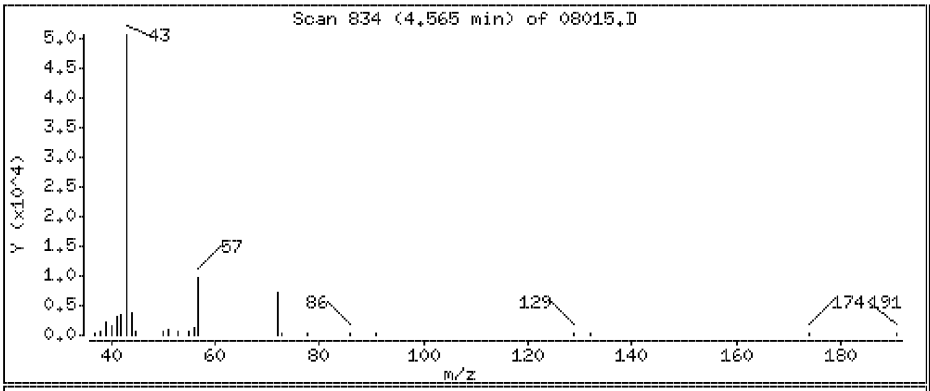
Operator: NCK

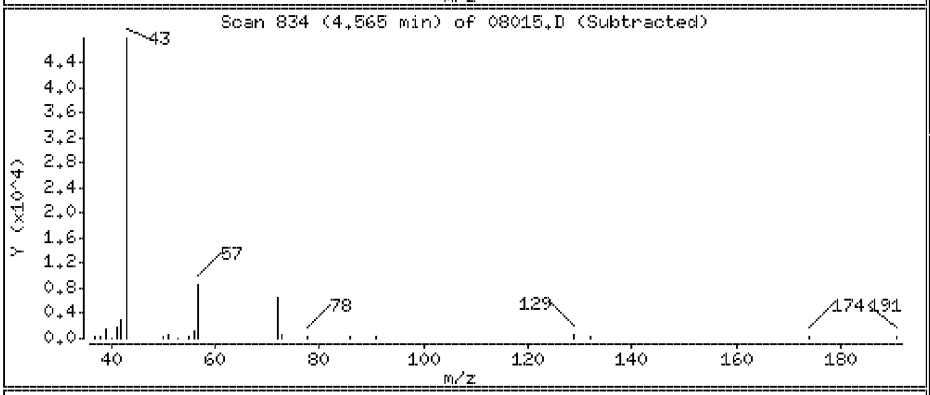
Column phase: J&W DB-5

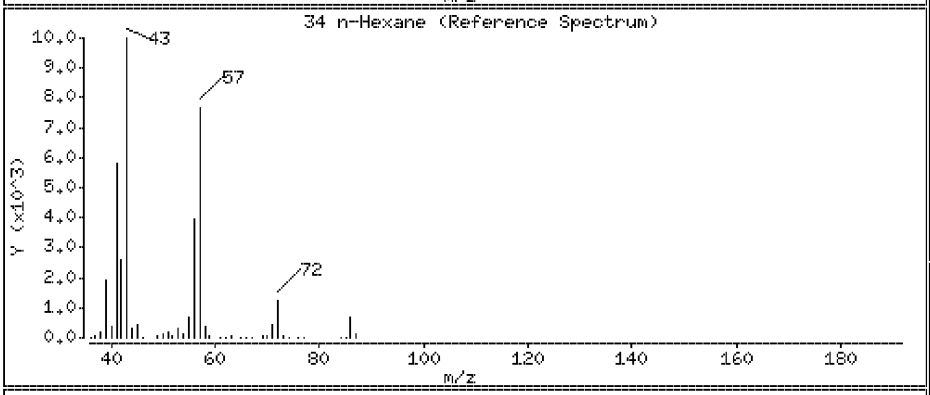
Column diameter: 0.32

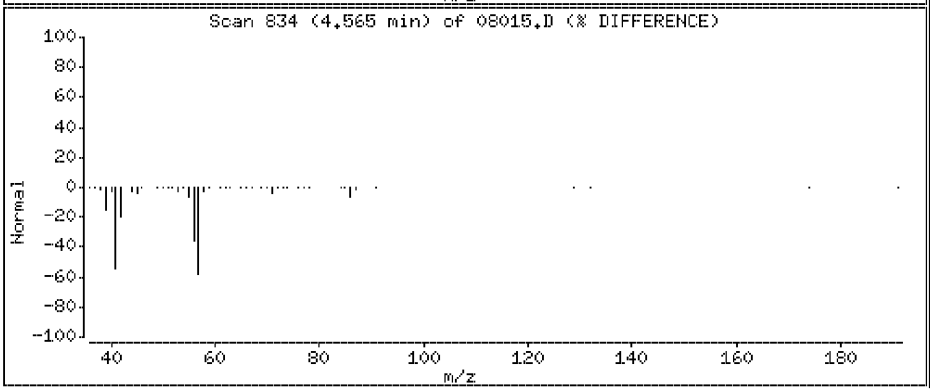
34 n-Hexane

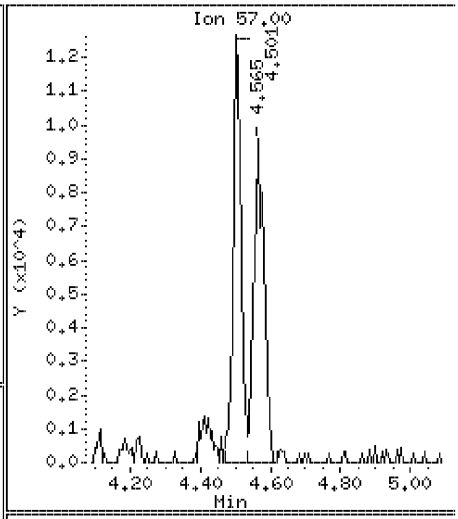
Concentration: 0.282 ppbv

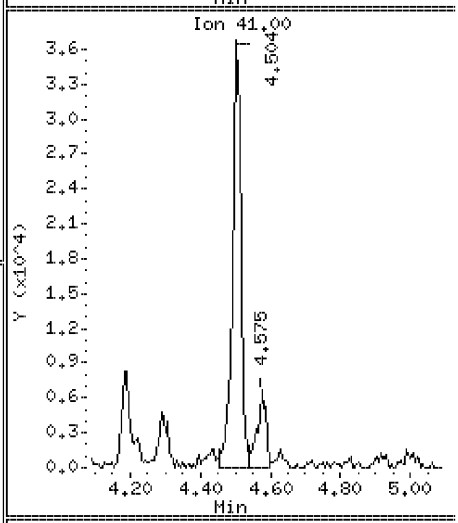


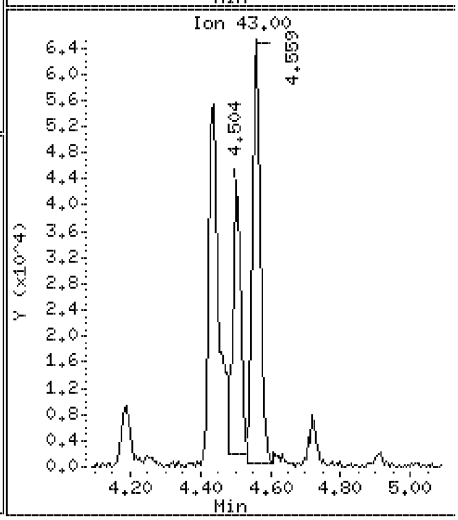












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

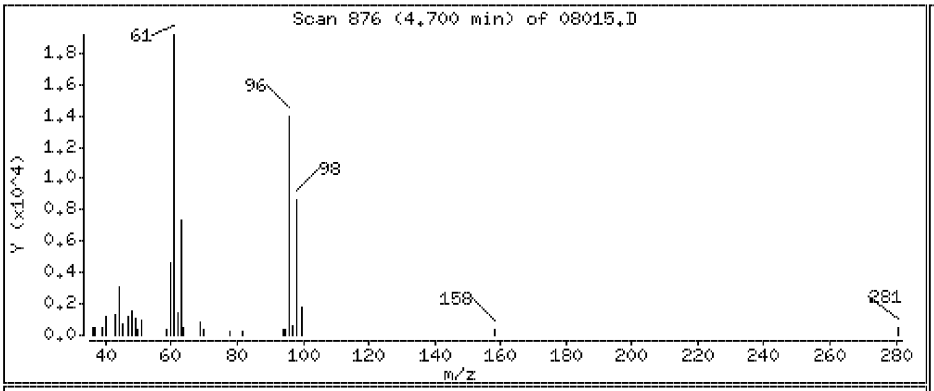
Operator: NCK

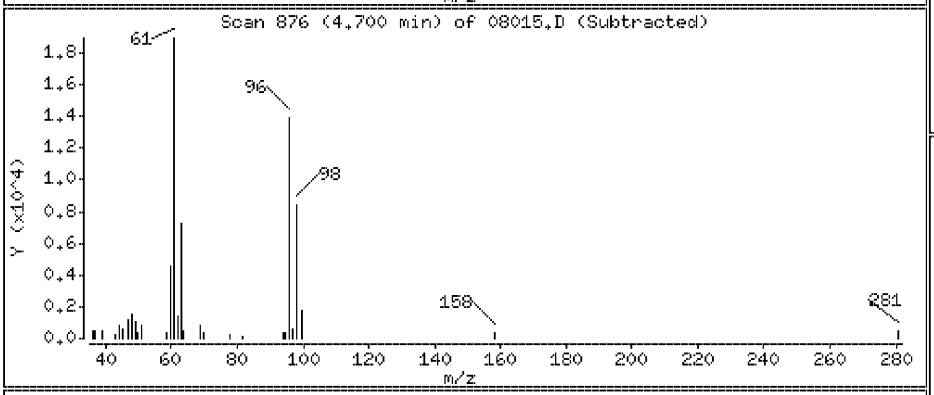
Column phase: J&W DB-5

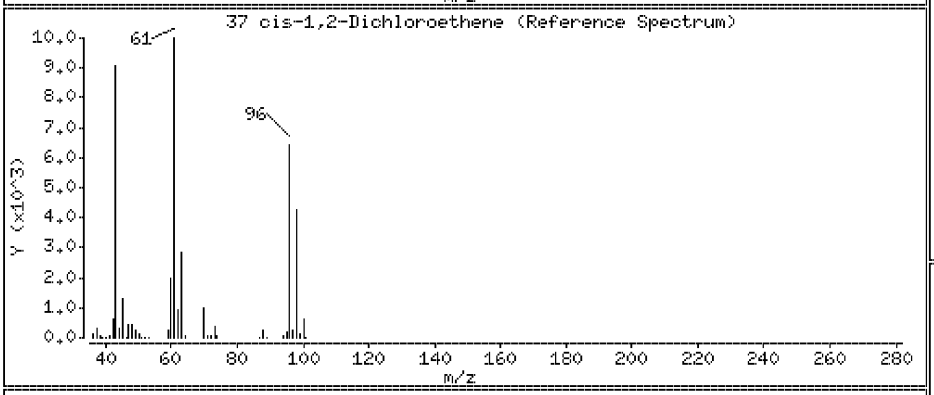
Column diameter: 0.32

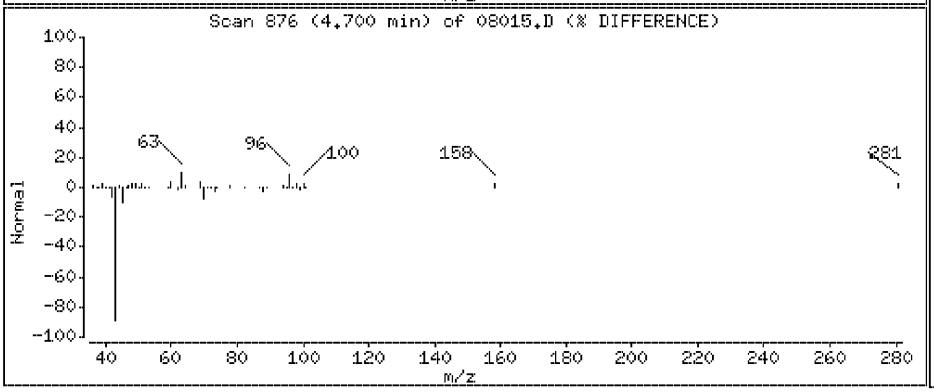
37 cis-1,2-Dichloroethene

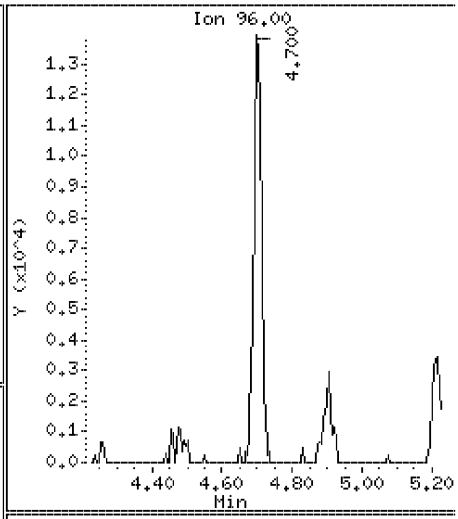
Concentration: 0.619 ppbv

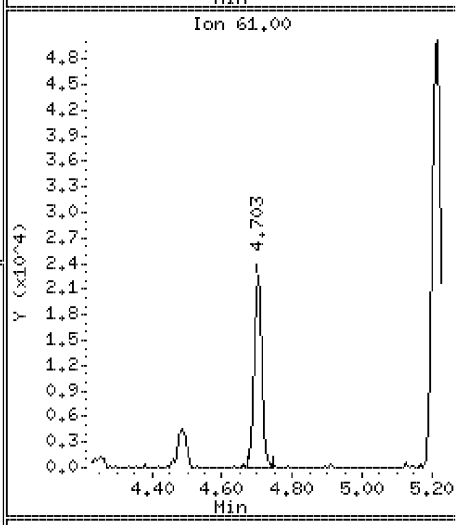


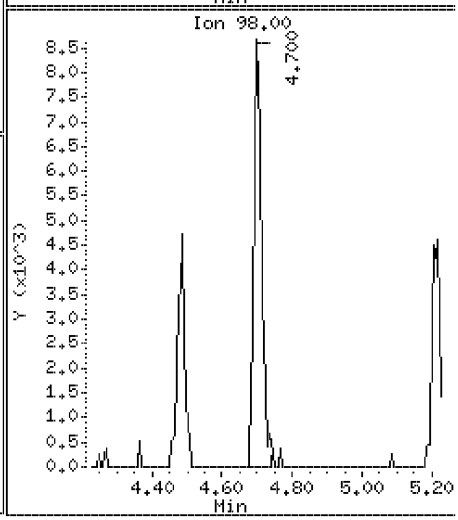












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

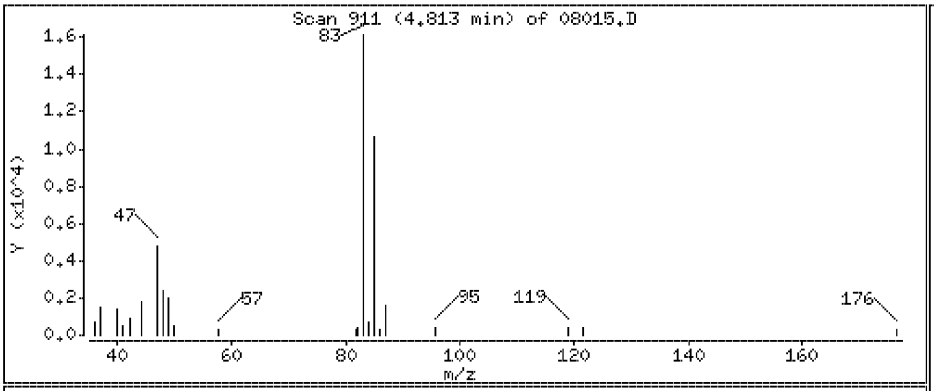
Operator: NCK

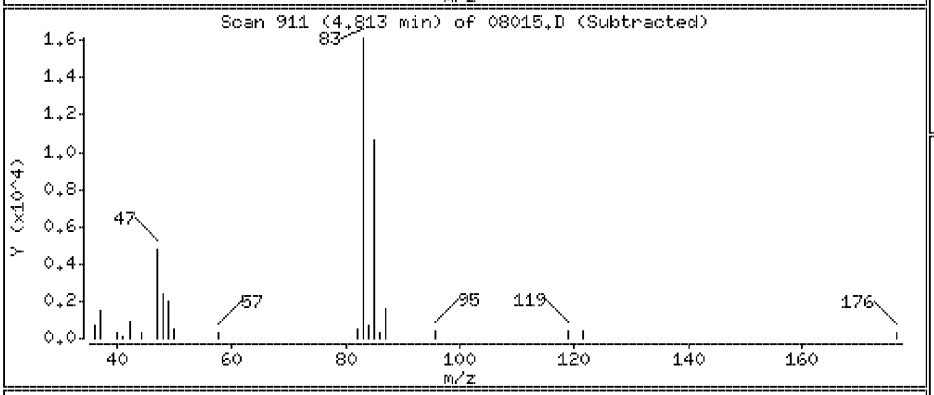
Column phase: J&W DB-5

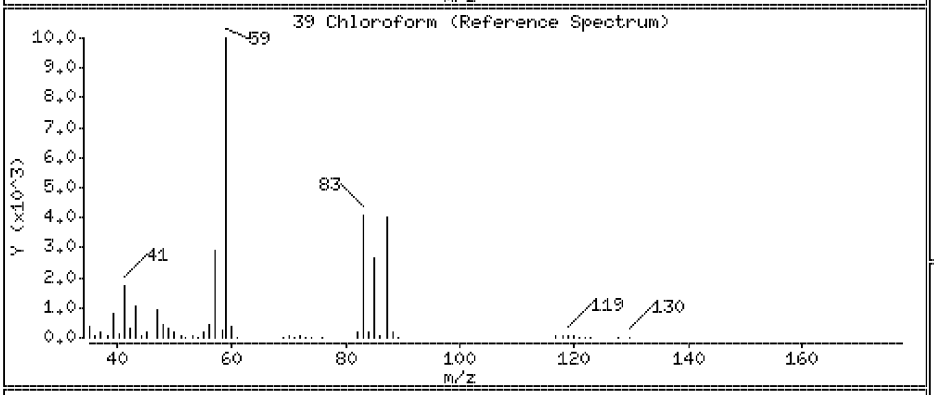
Column diameter: 0.32

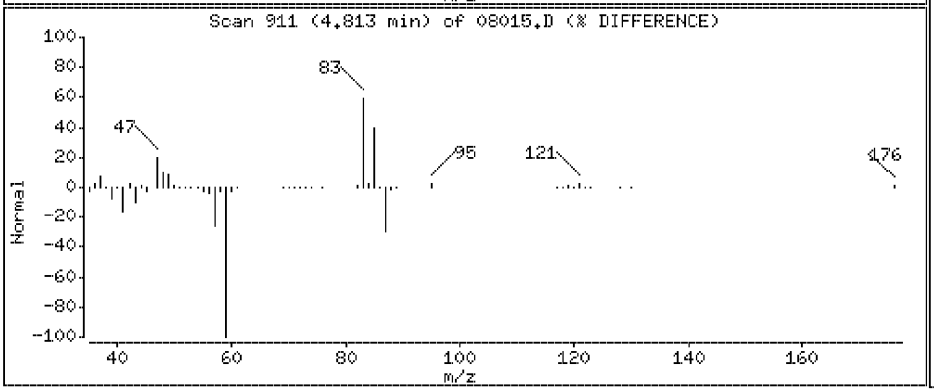
39 Chloroform

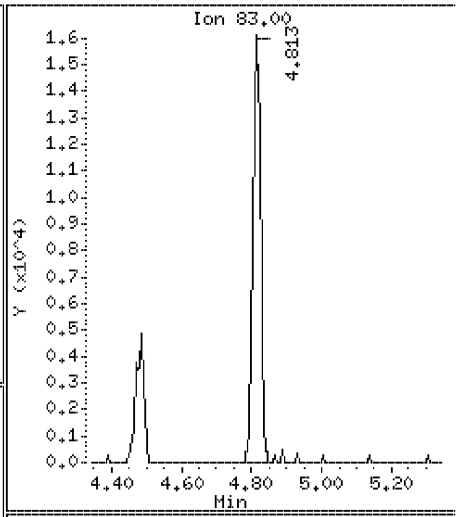
Concentration: 0.342 ppbv

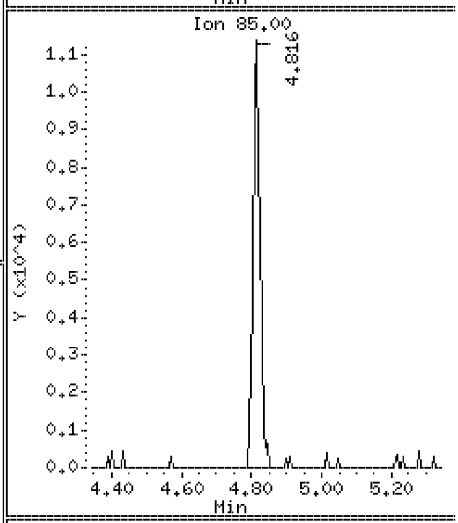


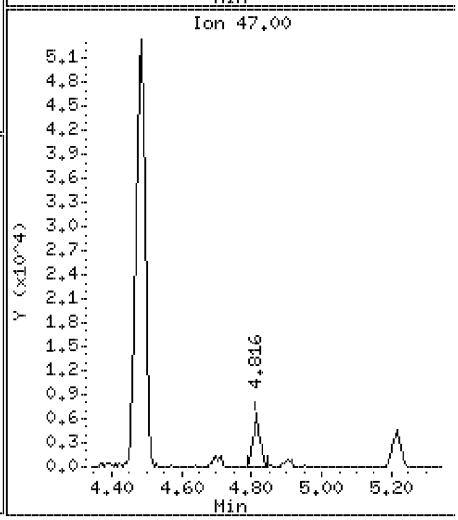












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

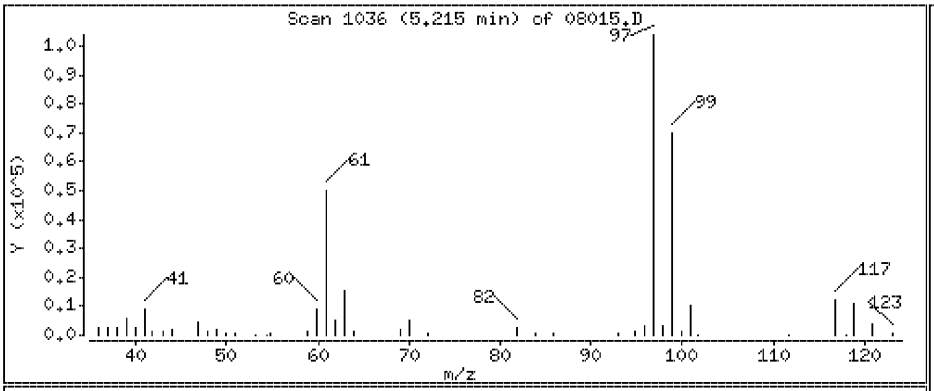
Operator: NCK

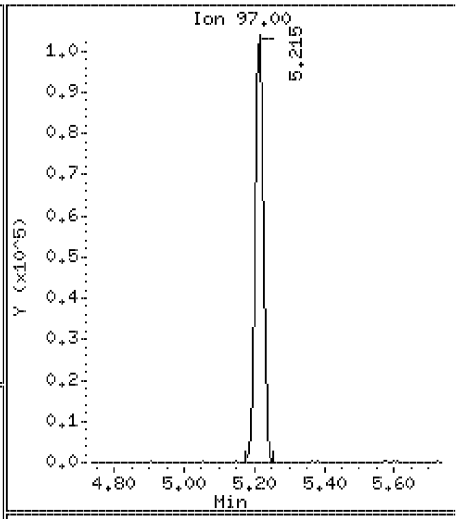
Column phase: J&W DB-5

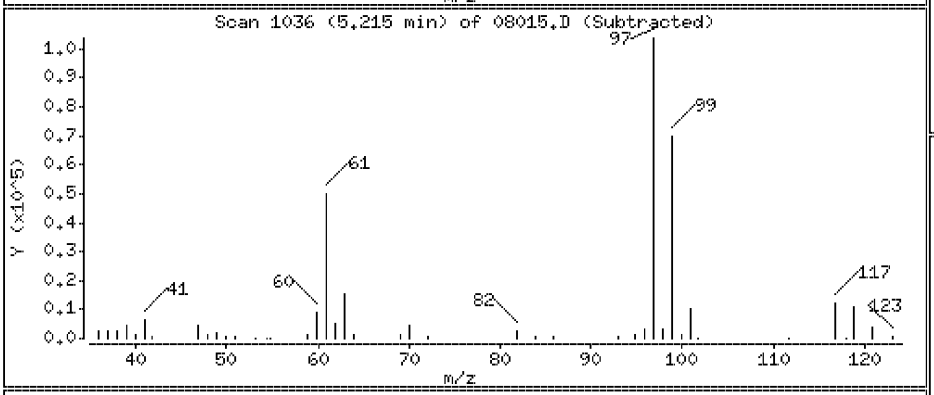
Column diameter: 0.32

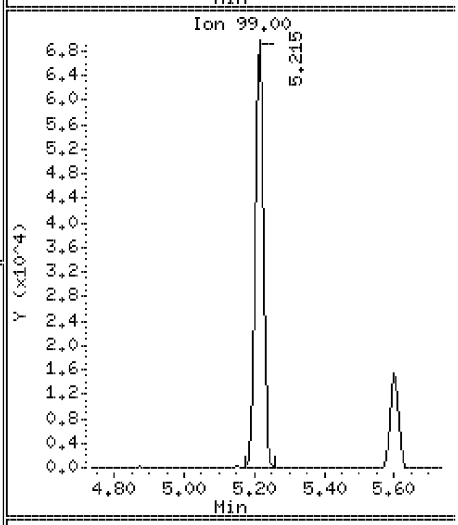
41 1,1,1-Trichloroethane

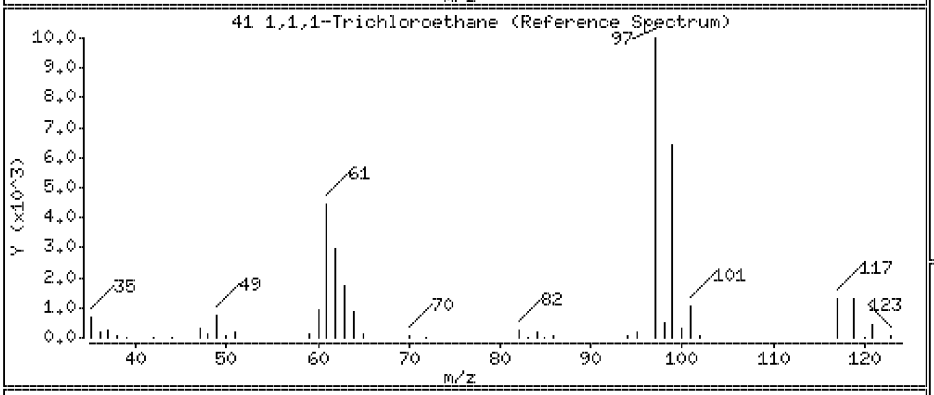
Concentration: 2.03 ppbv

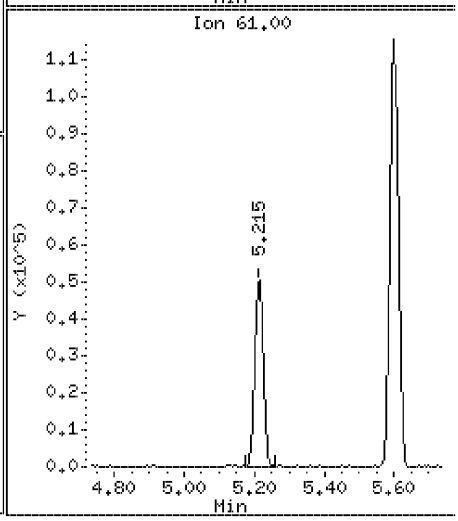


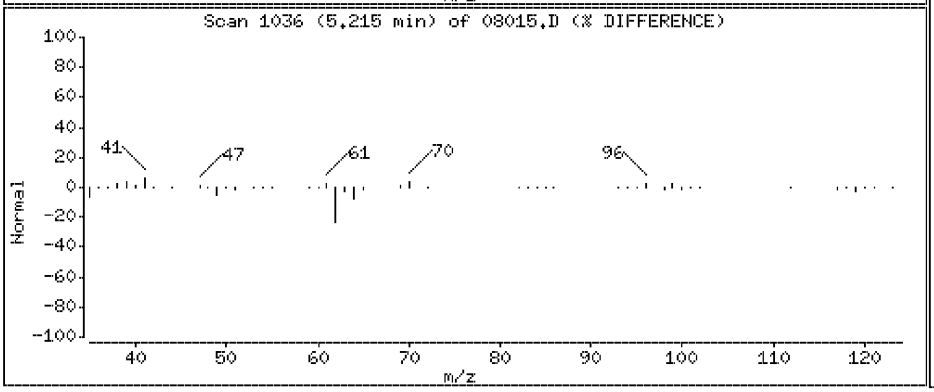












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

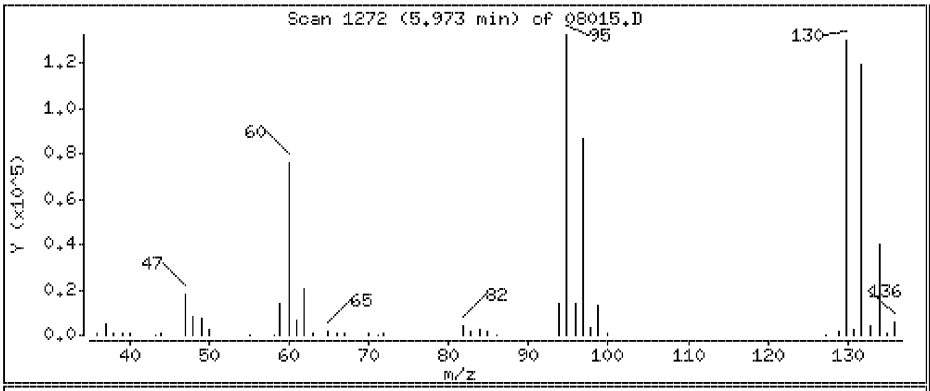
Operator: NCK

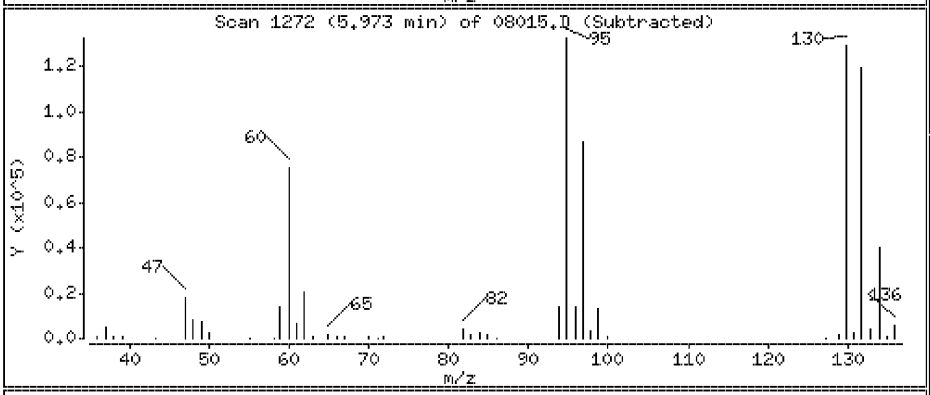
Column phase: J&W DB-5

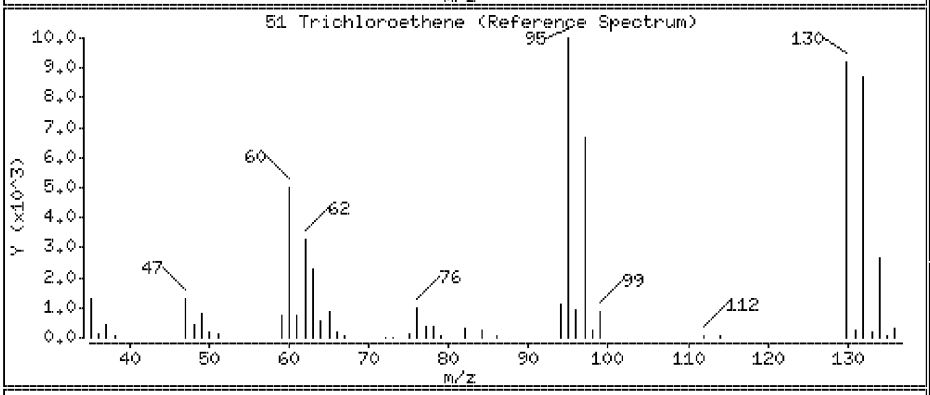
Column diameter: 0.32

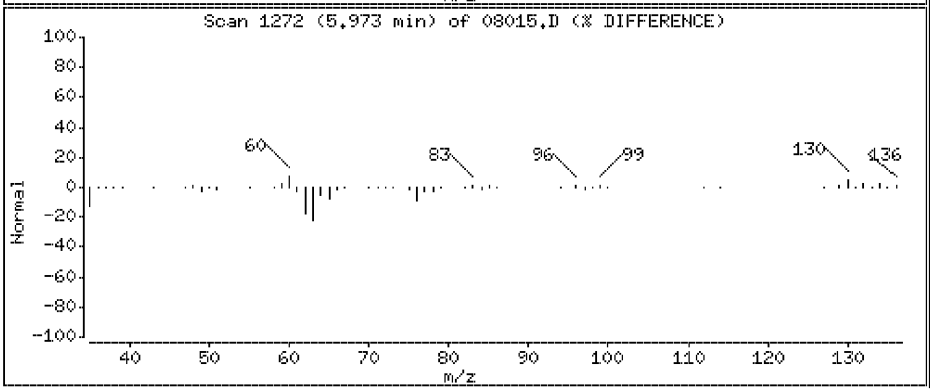
51 Trichloroethene

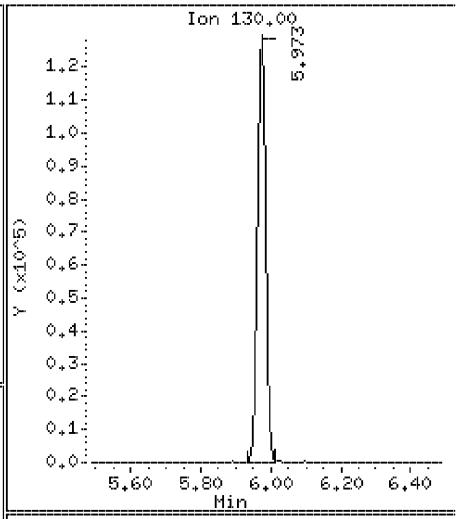
Concentration: 3.97 ppbv

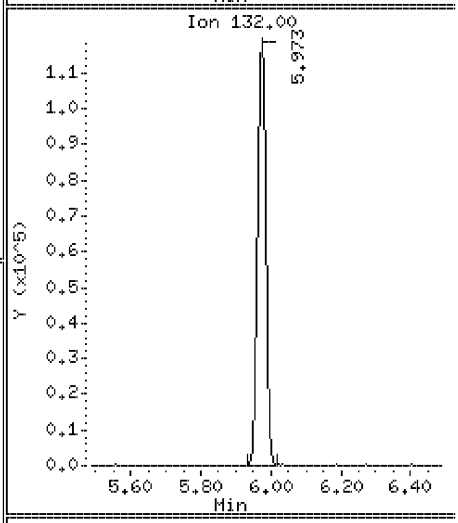


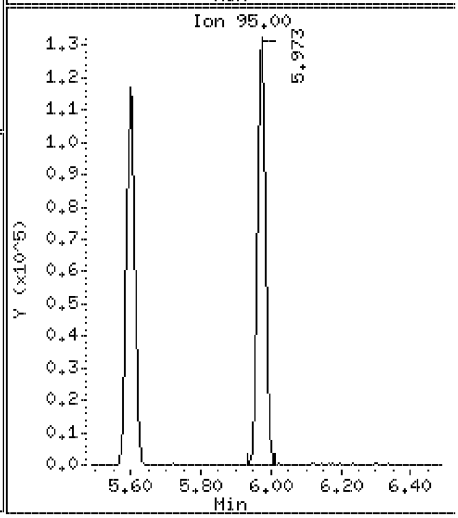












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

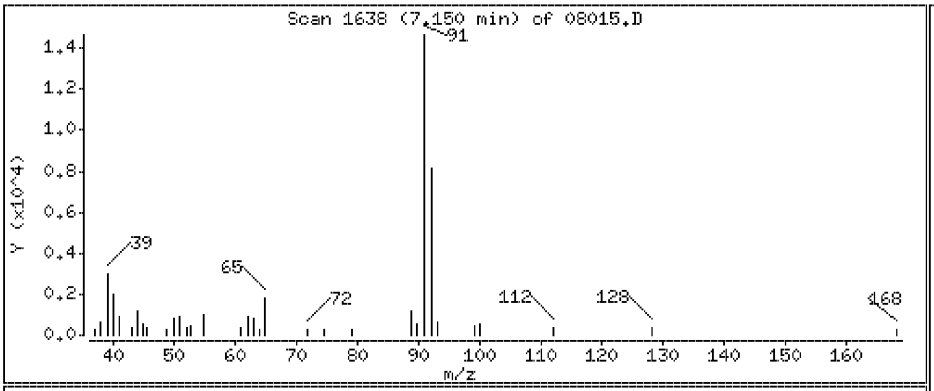
Operator: NCK

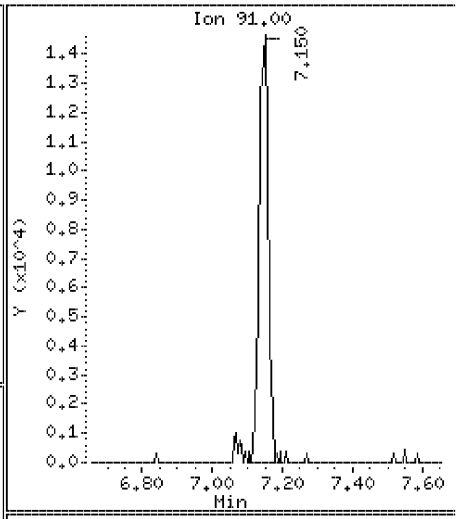
Column phase: J&W DB-5

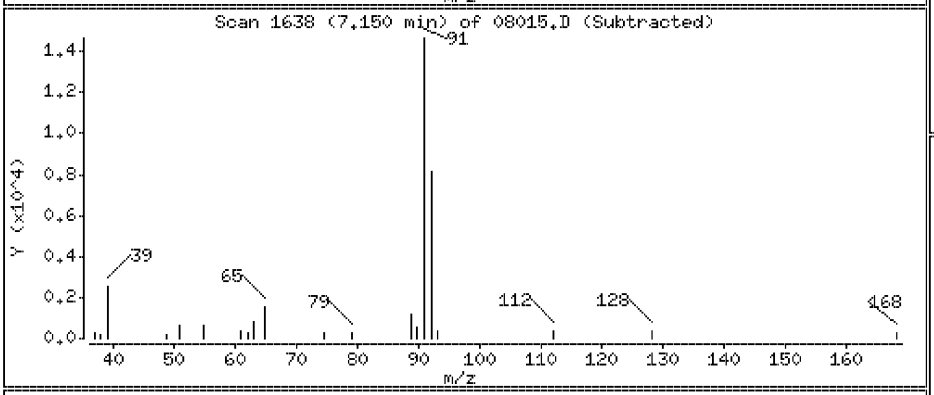
Column diameter: 0.32

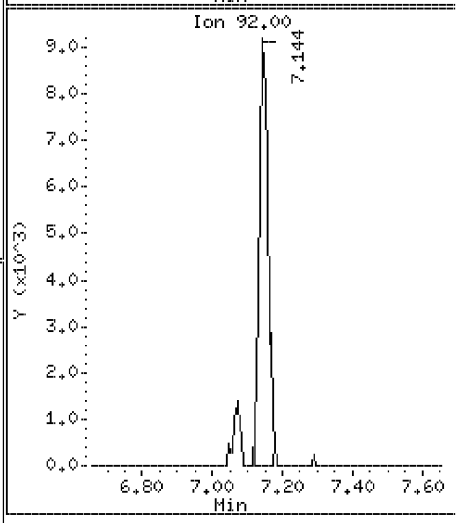
61 Toluene

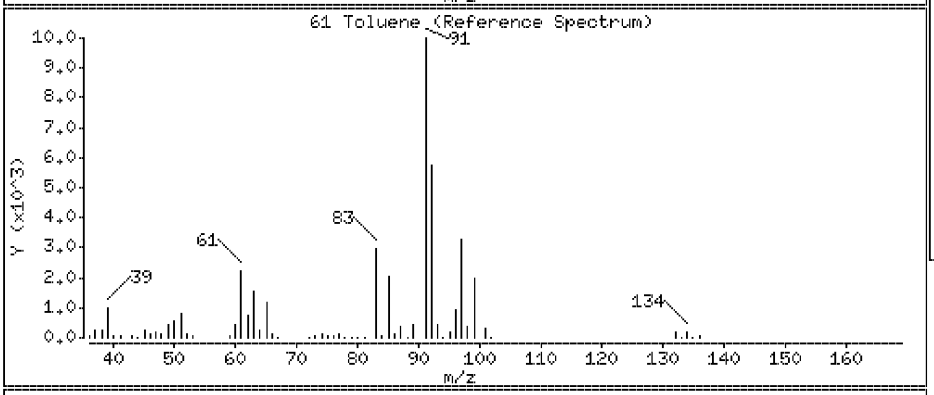
Concentration: 0.202 ppbv

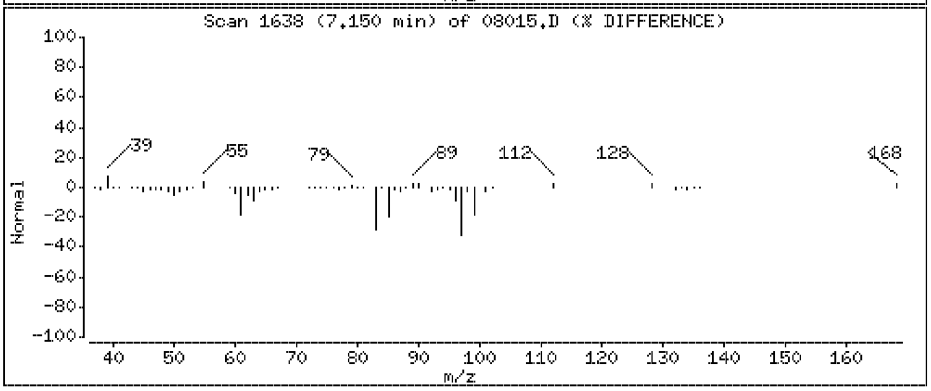












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

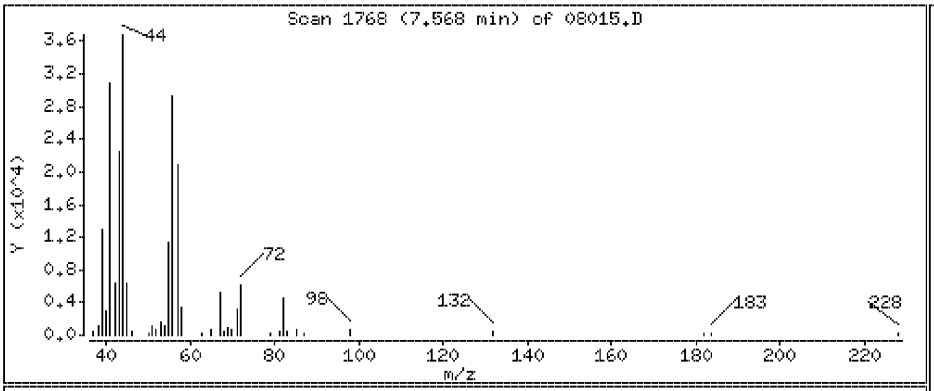
Operator: NCK

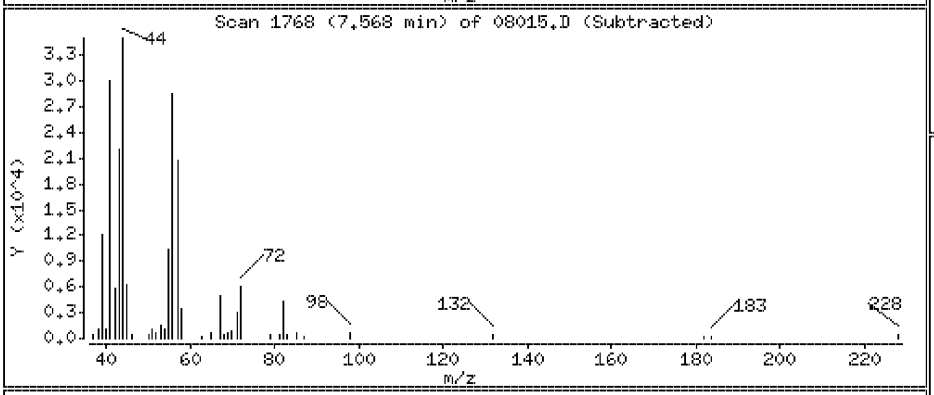
Column phase: J&W DB-5

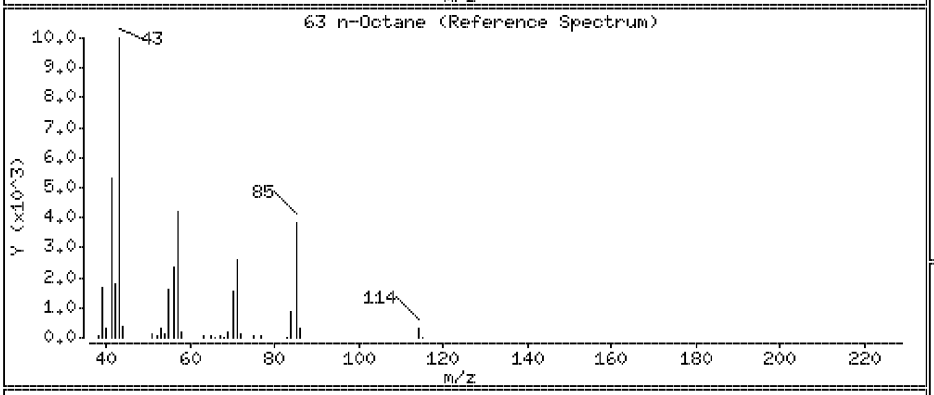
Column diameter: 0.32

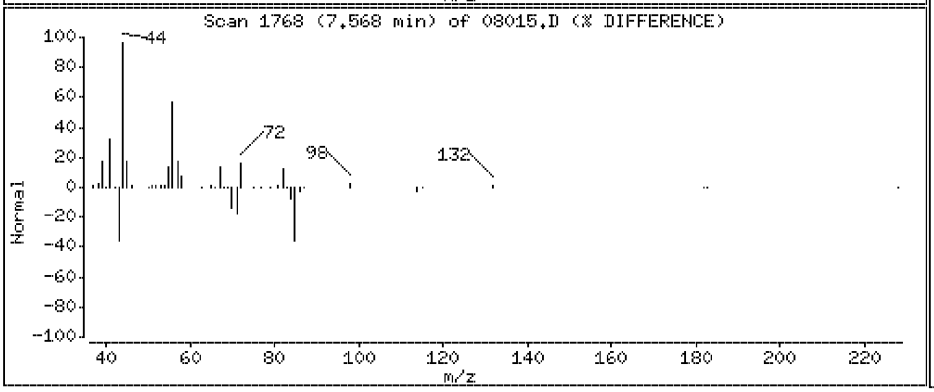
63 n-Octane

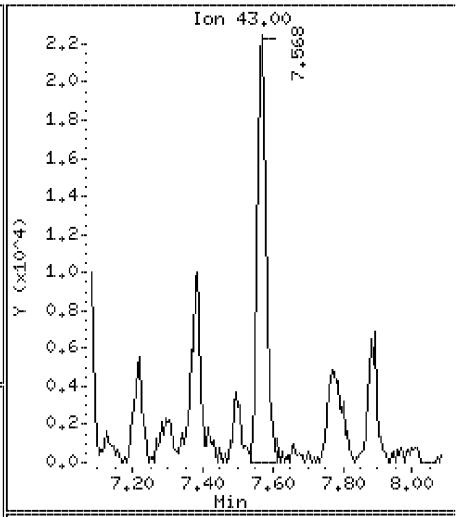
Concentration: 0.411 ppbv

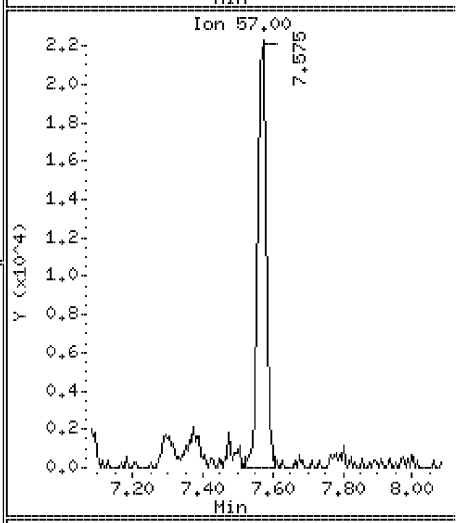


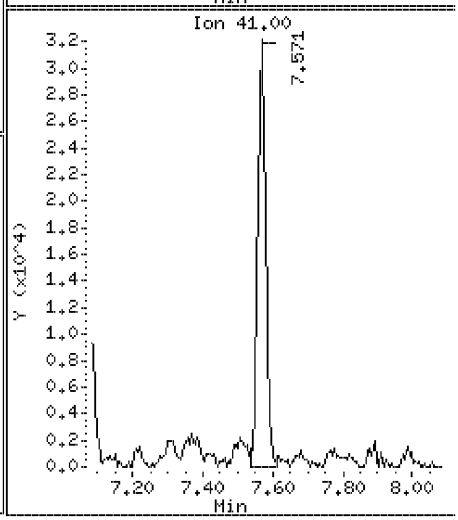












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

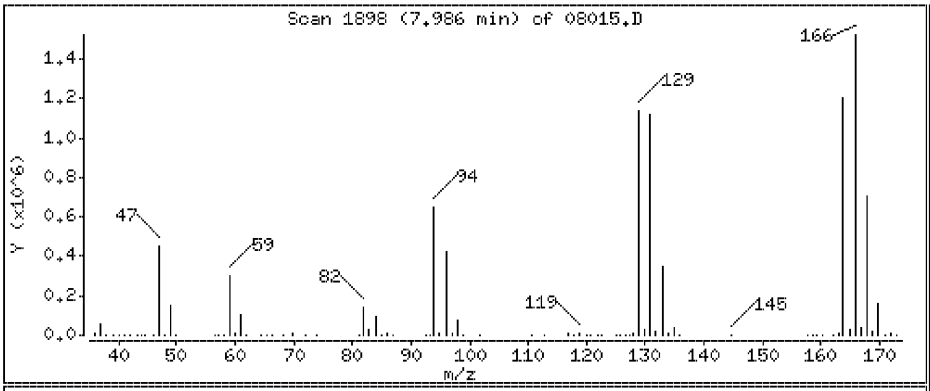
Operator: NCK

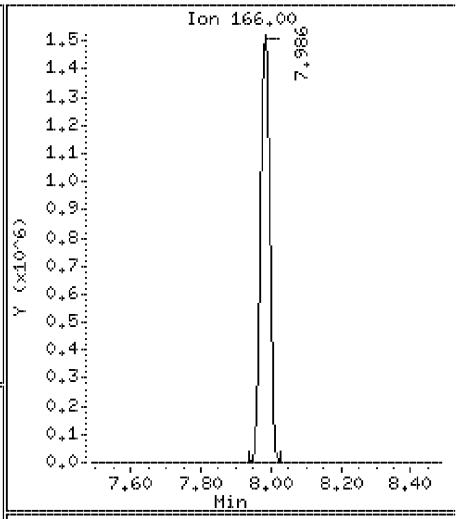
Column phase: J&W DB-5

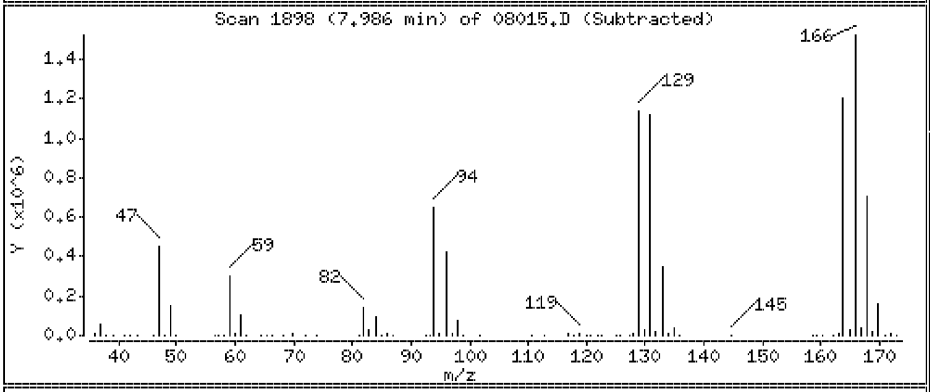
Column diameter: 0.32

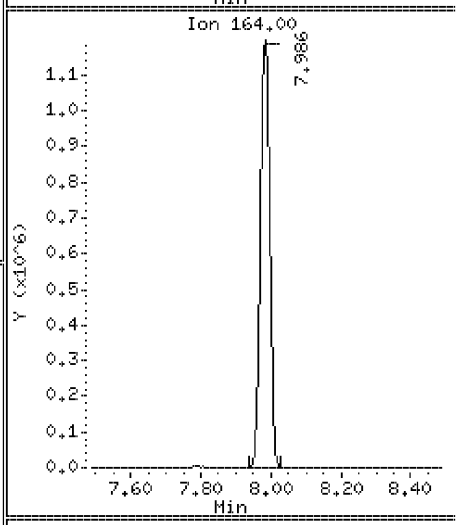
66 Tetrachloroethene

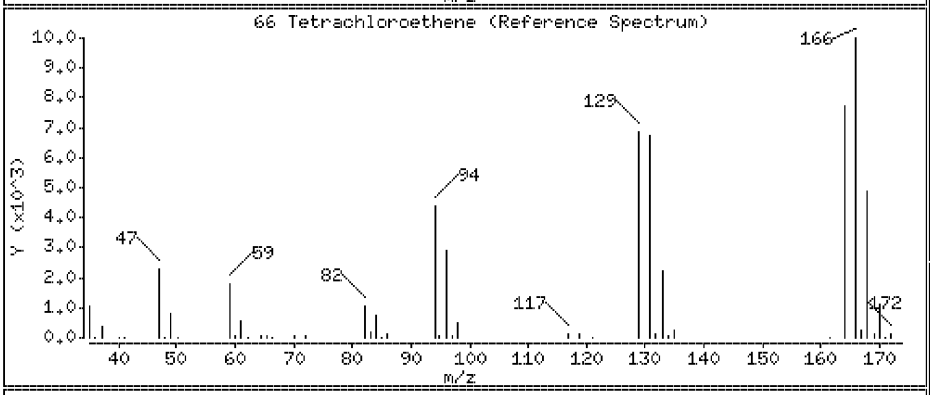
Concentration: 49.2 ppbv

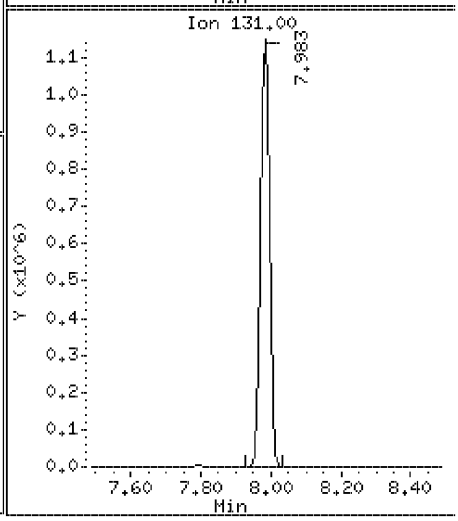


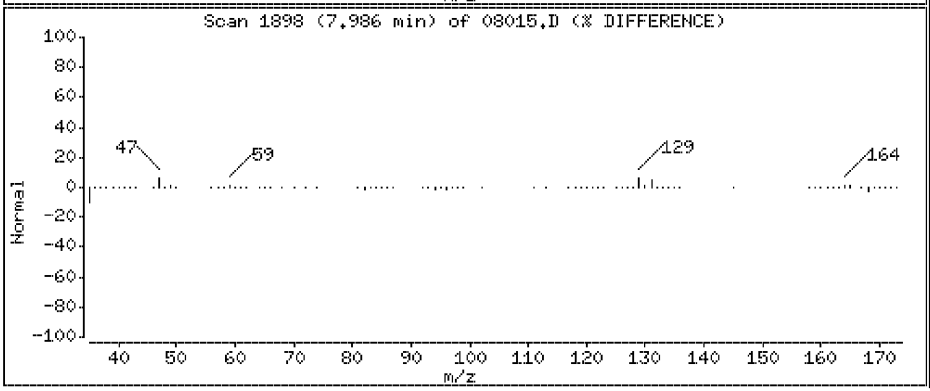












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

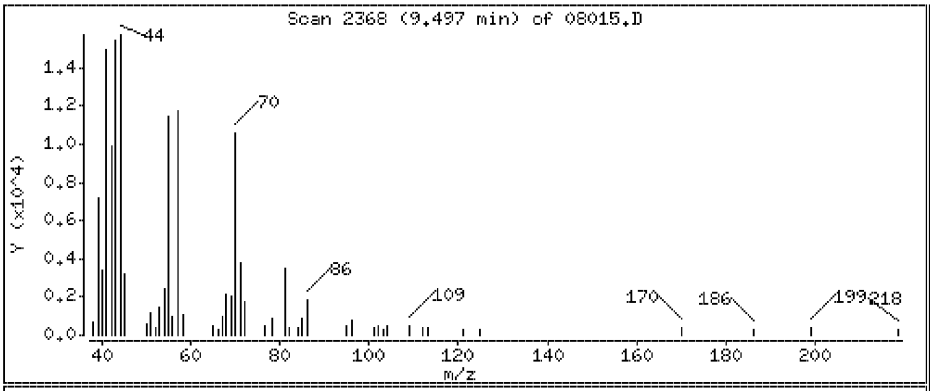
Operator: NCK

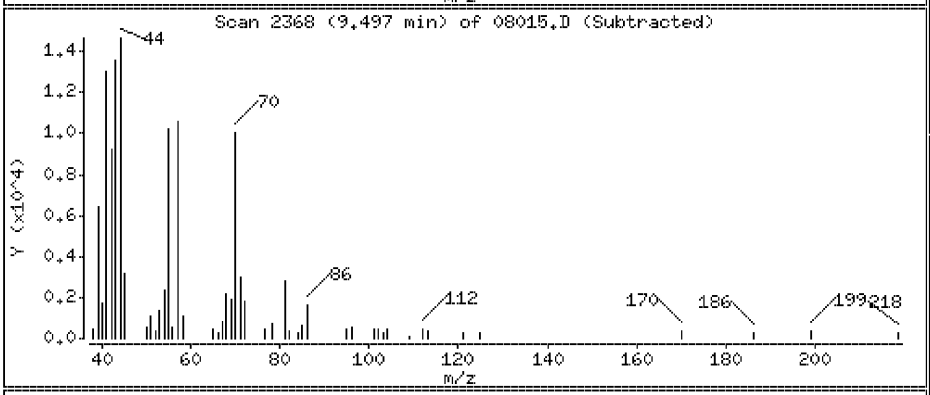
Column phase: J&W DB-5

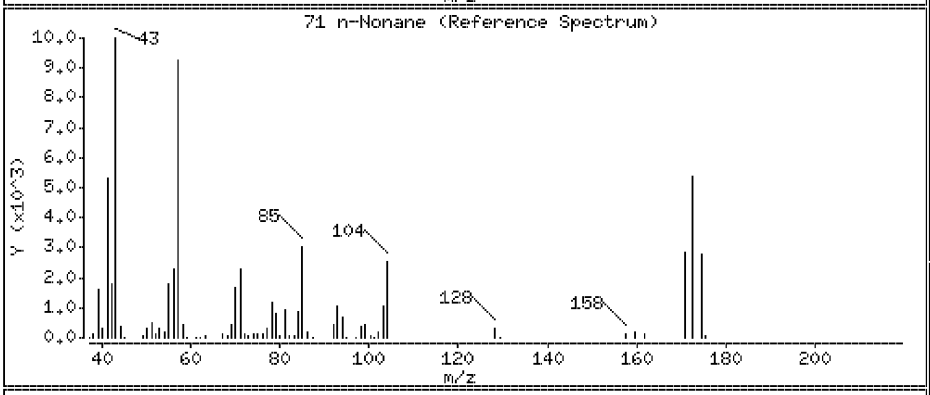
Column diameter: 0.32

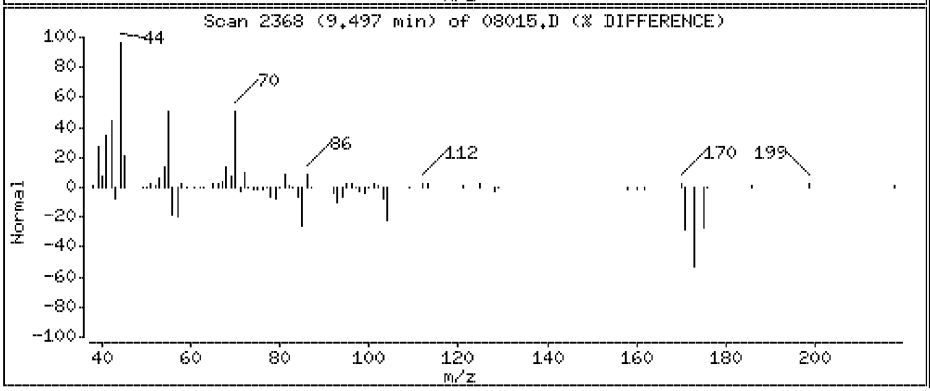
71 n-Nonane

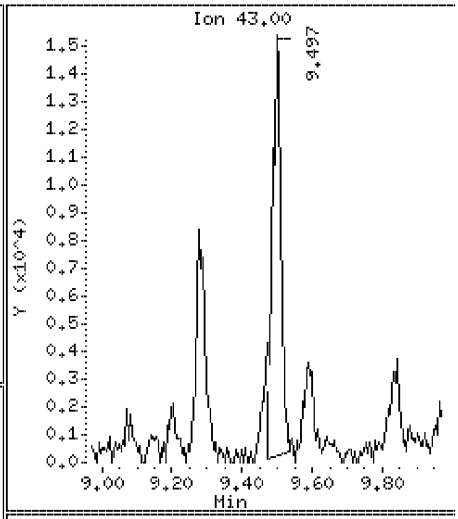
Concentration: 0.331 ppbv

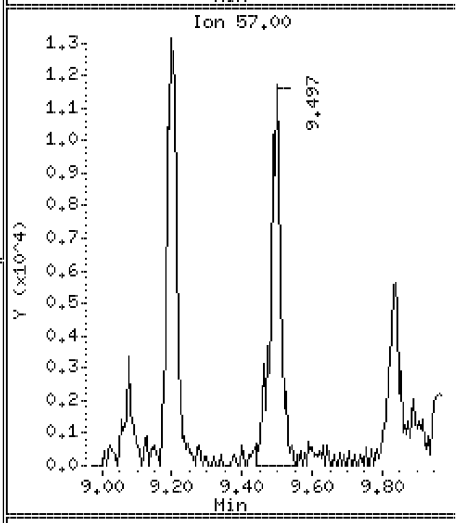


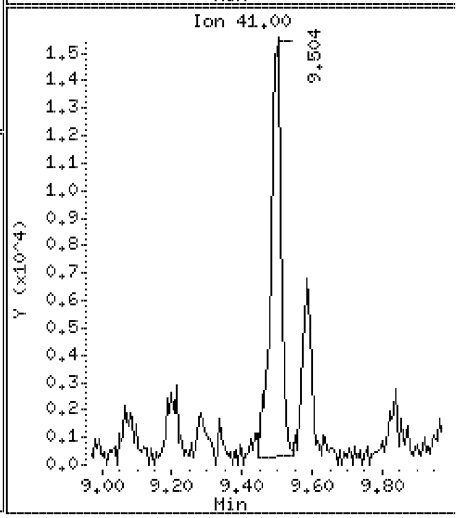












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

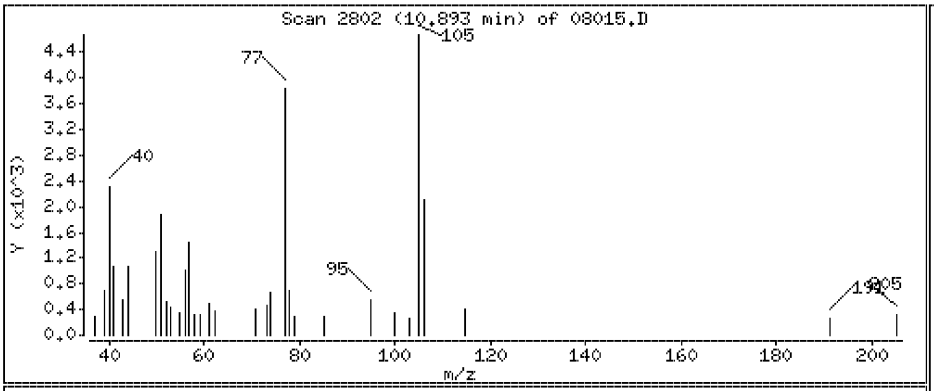
Operator: NCK

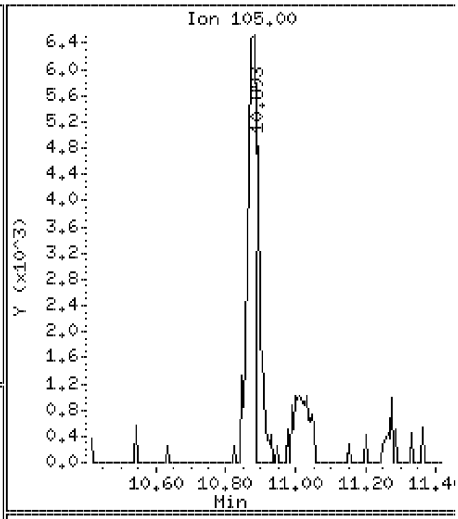
Column phase: J&W DB-5

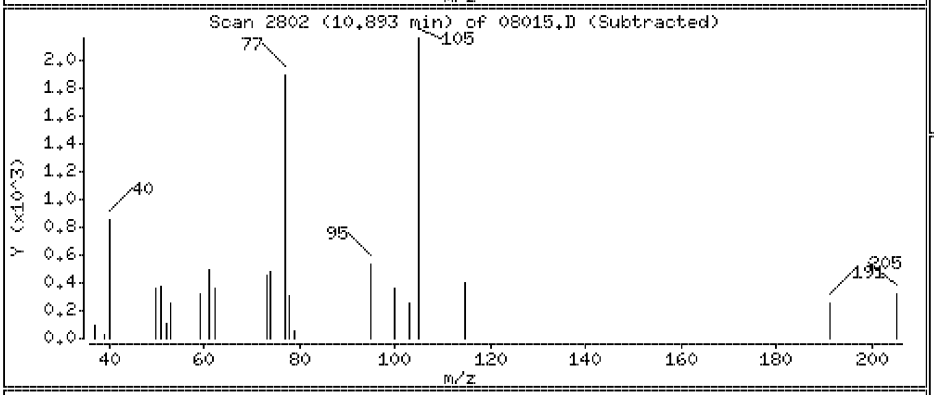
Column diameter: 0.32

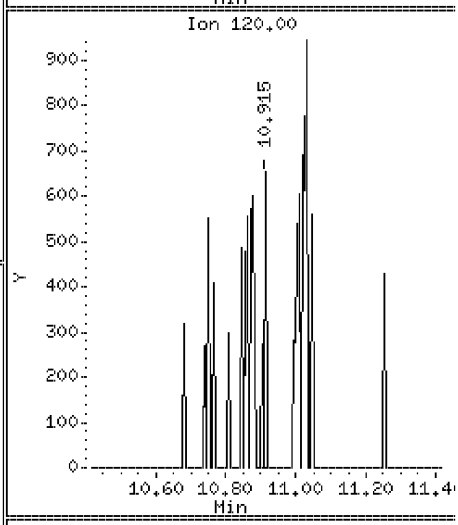
78 4-Ethyltoluene

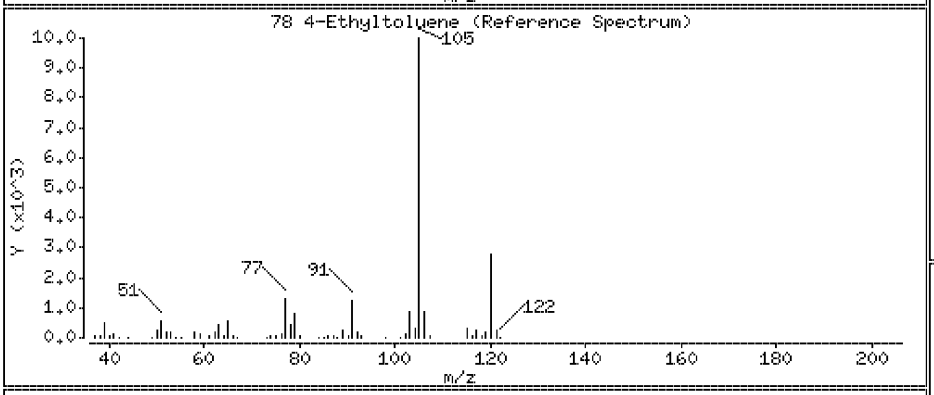
Concentration: 0.299 ppbv

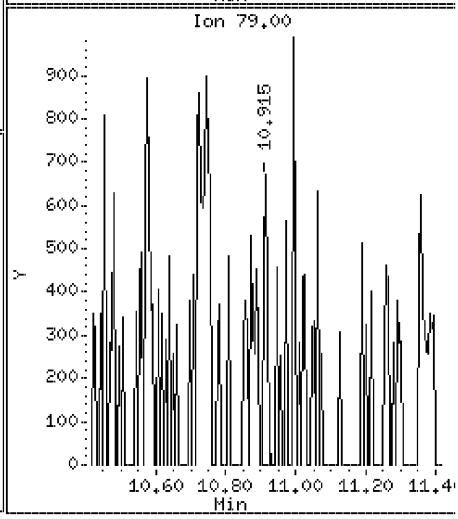


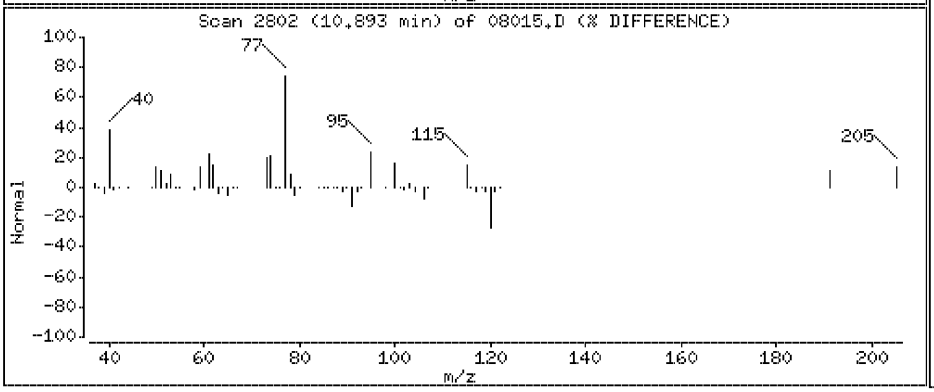












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

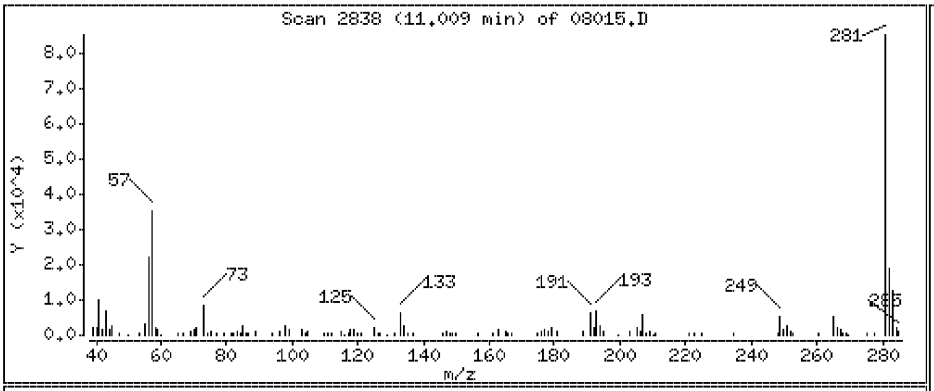
Operator: NCK

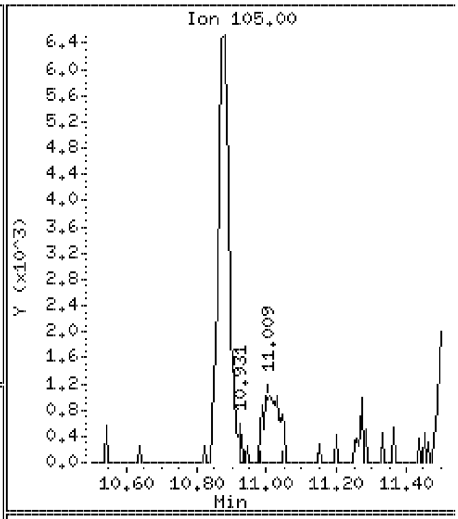
Column phase: J&W DB-5

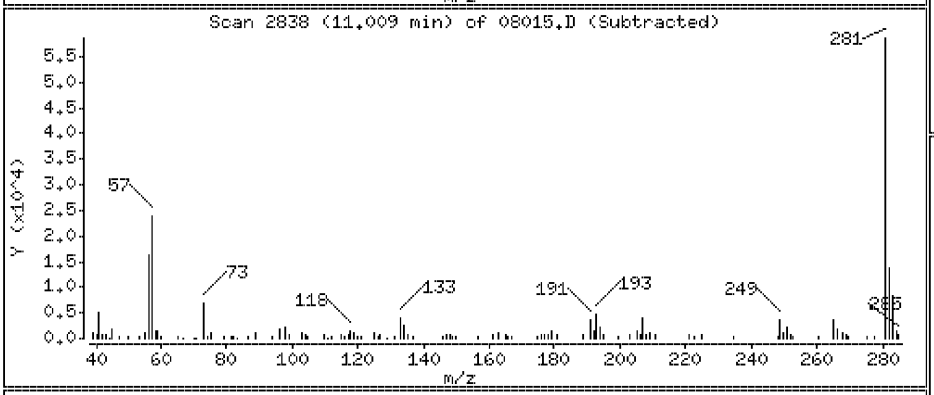
Column diameter: 0.32

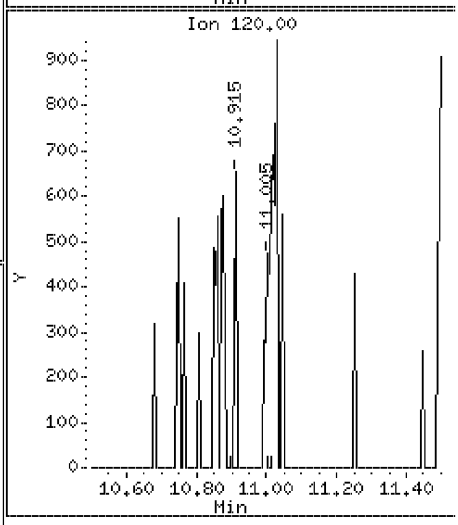
79 1,3,5-Trimethylbenzene

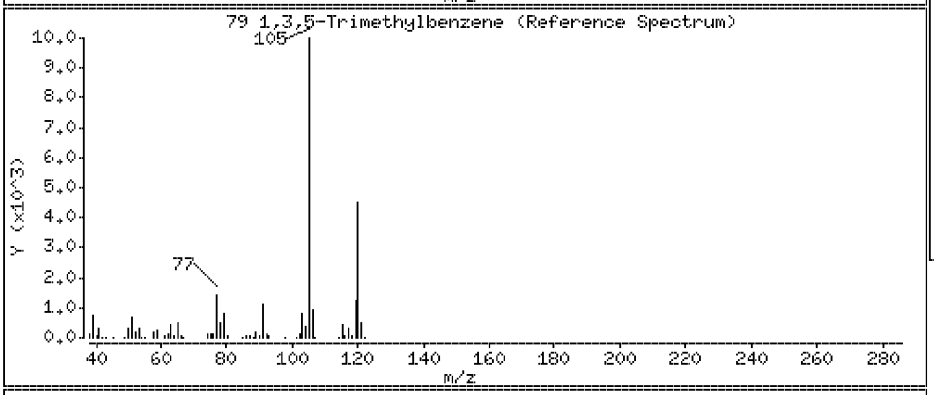
Concentration: 0.266 ppbv

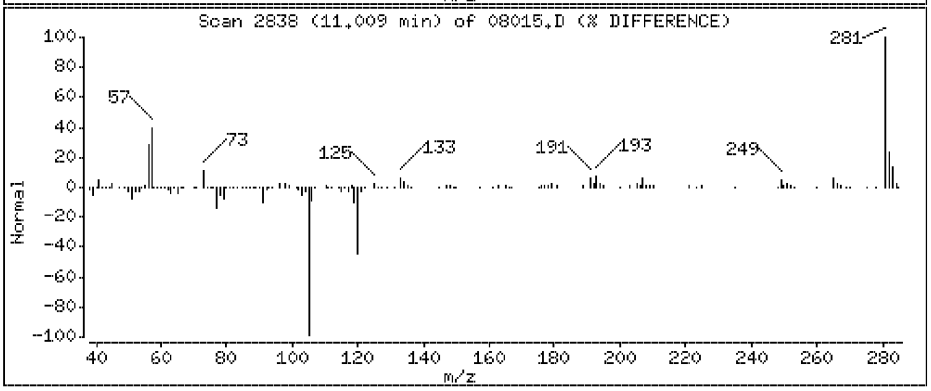












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

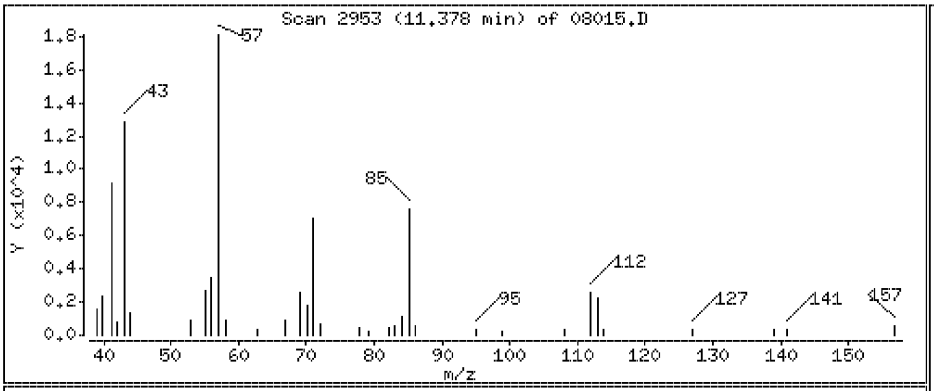
Operator: NCK

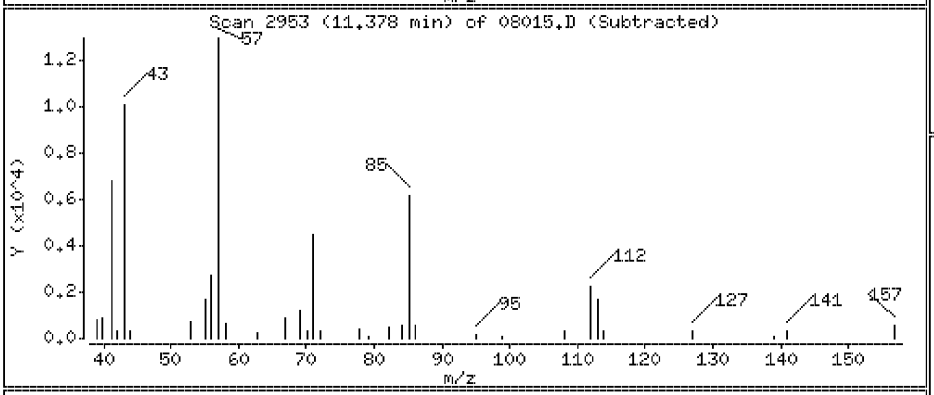
Column phase: J&W DB-5

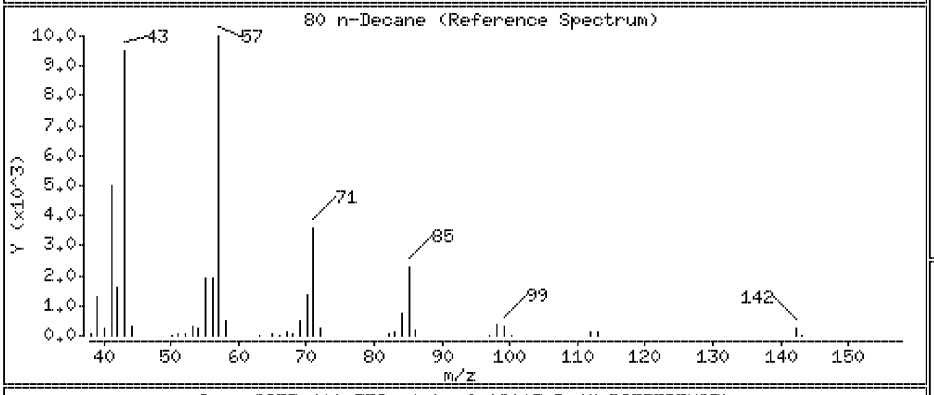
Column diameter: 0.32

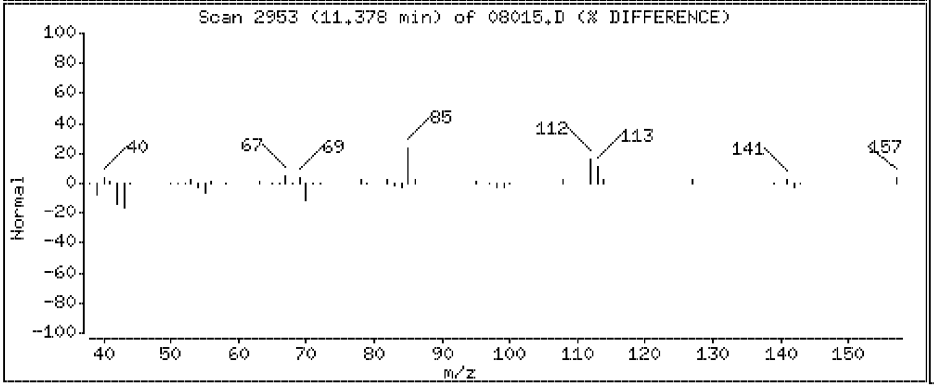
80 n-Decane

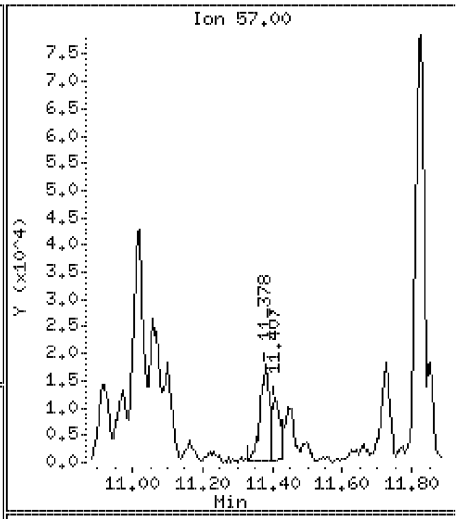
Concentration: 0.397 ppbv

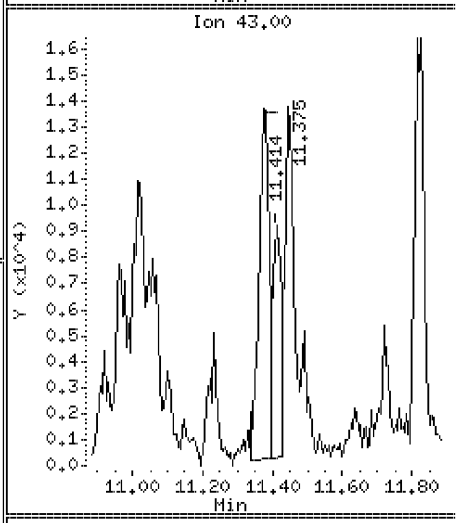


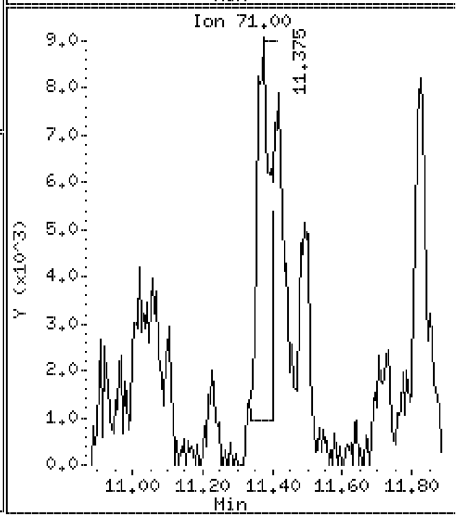












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

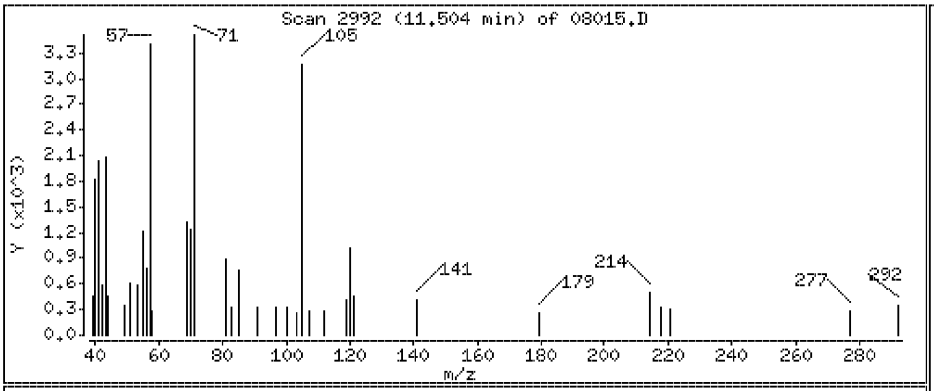
Operator: NCK

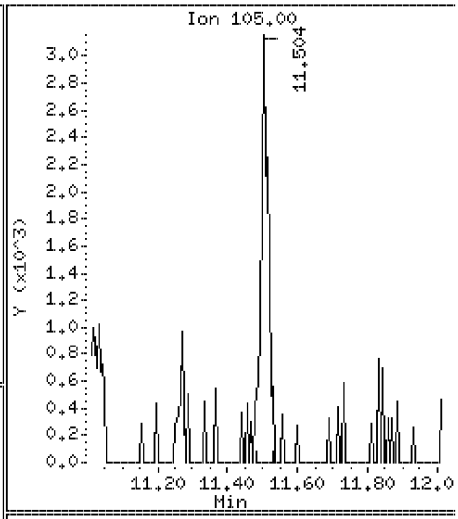
Column phase: J&W DB-5

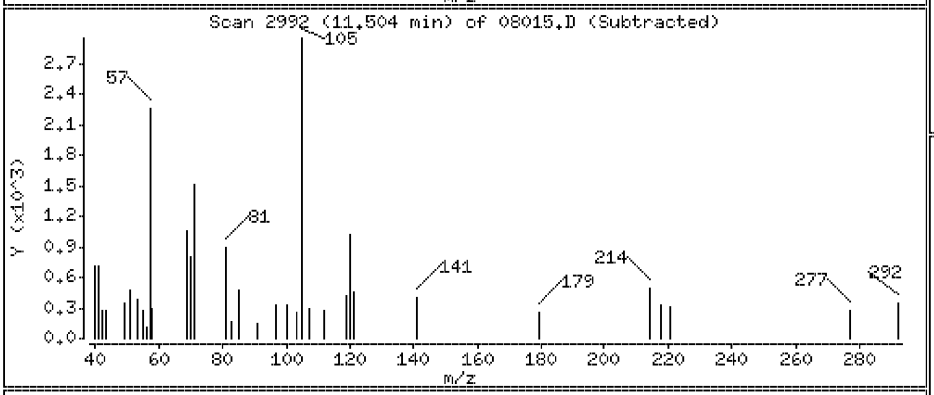
Column diameter: 0.32

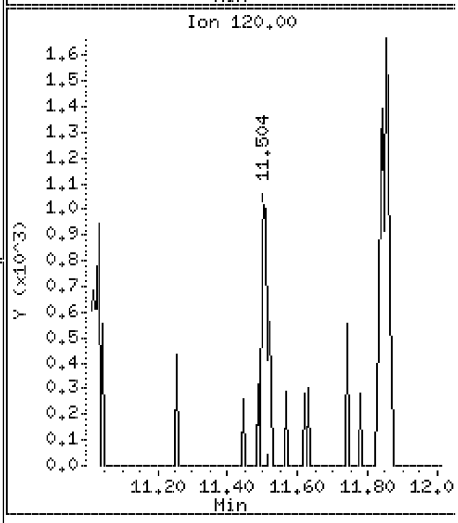
82 1,2,4-Trimethylbenzene

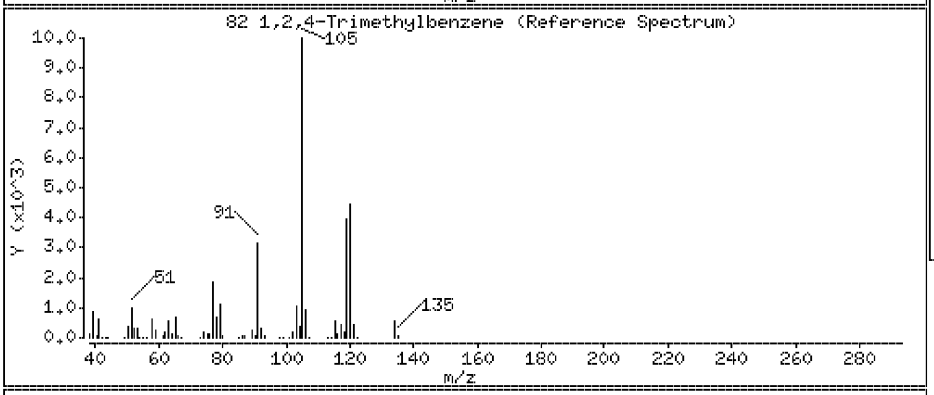
Concentration: 0.260 ppbv

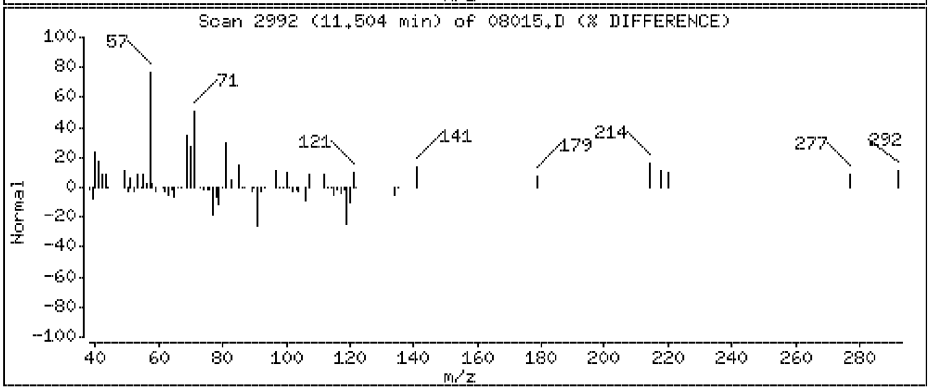












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08015.D

Date : 21-MAR-2017 15:44

Client ID:

Instrument: 10airB.i

Sample Info:

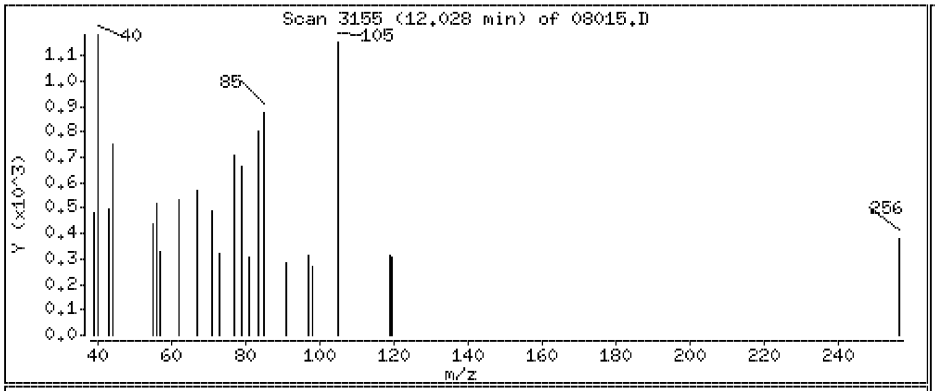
Operator: NCK

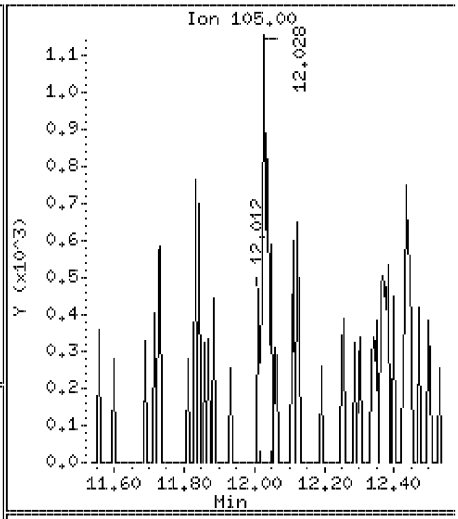
Column phase: J&W DB-5

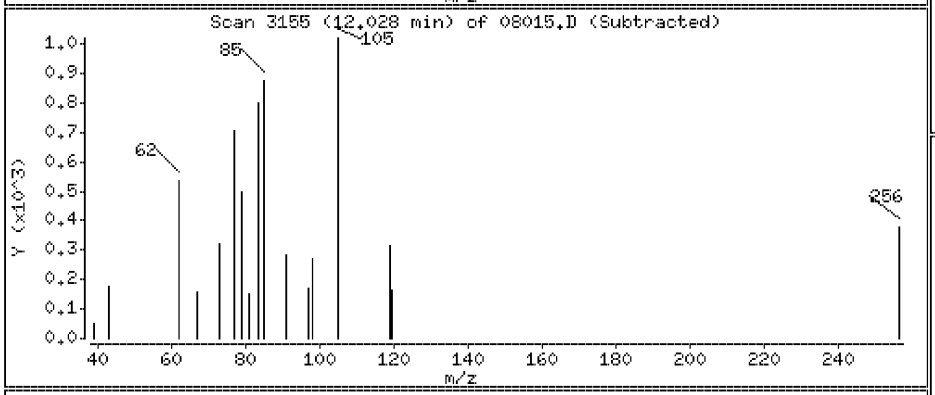
Column diameter: 0.32

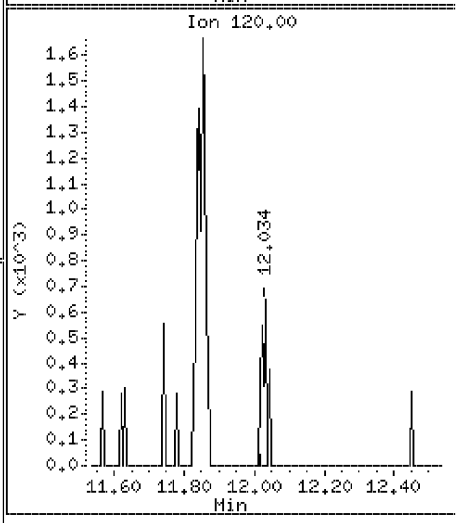
89 1,2,3-Trimethylbenzene

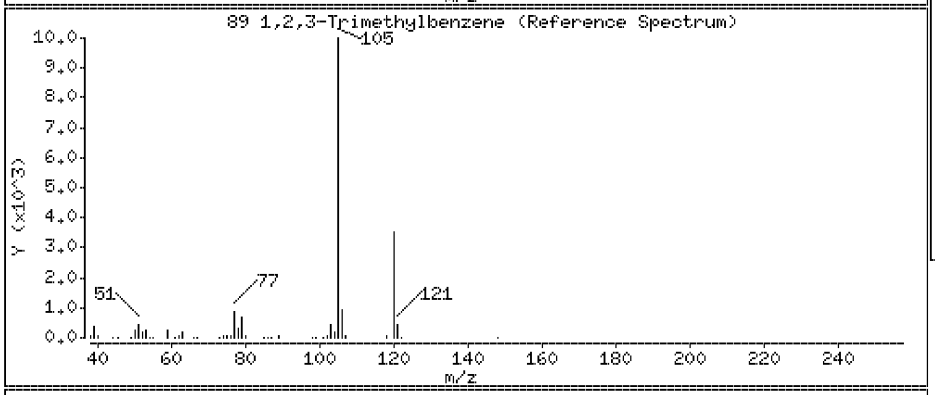
Concentration: 0.267 ppbv

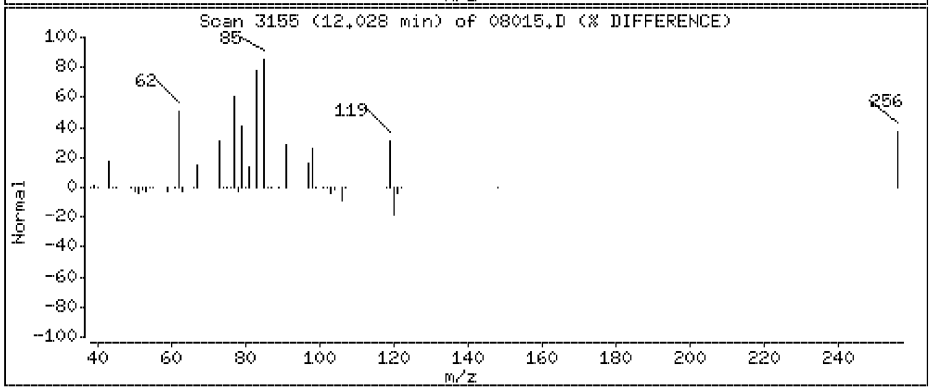






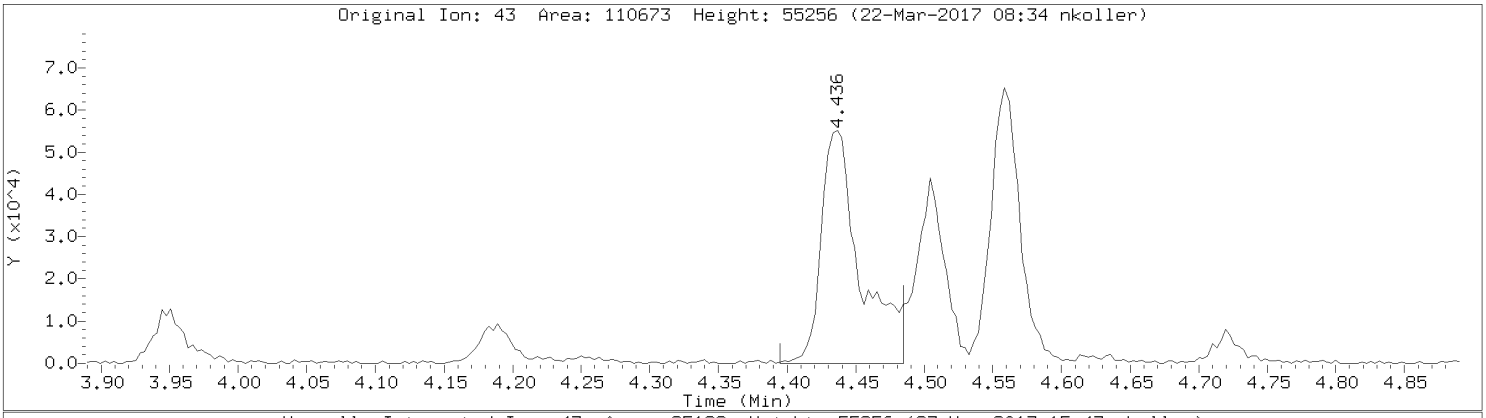


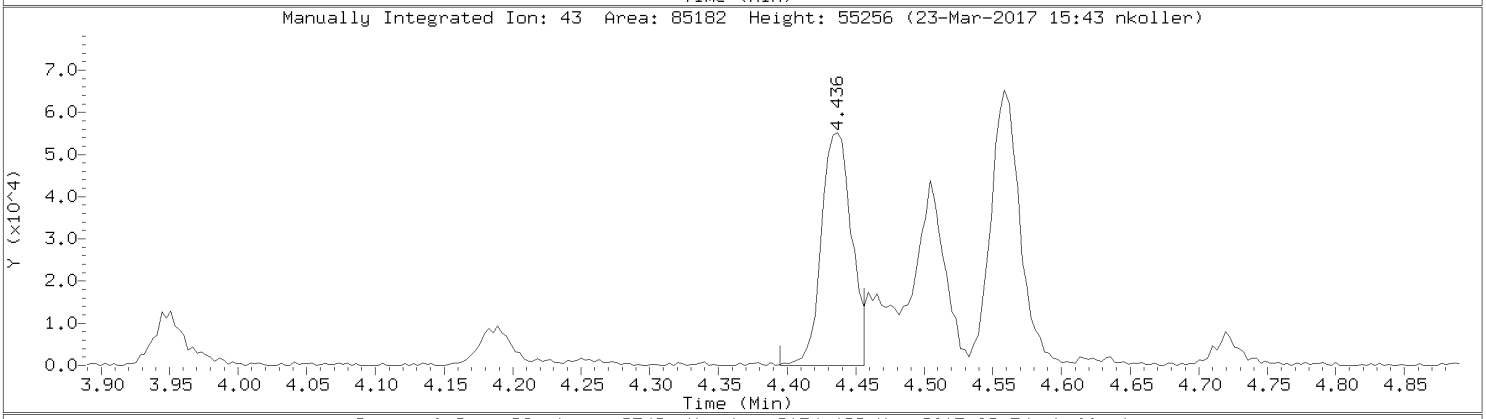


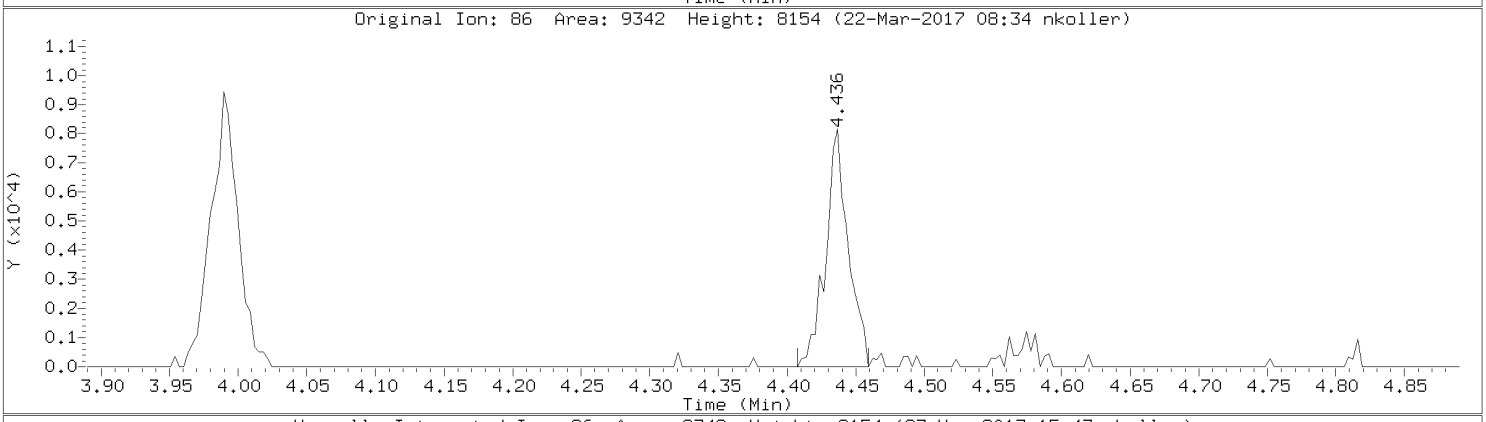


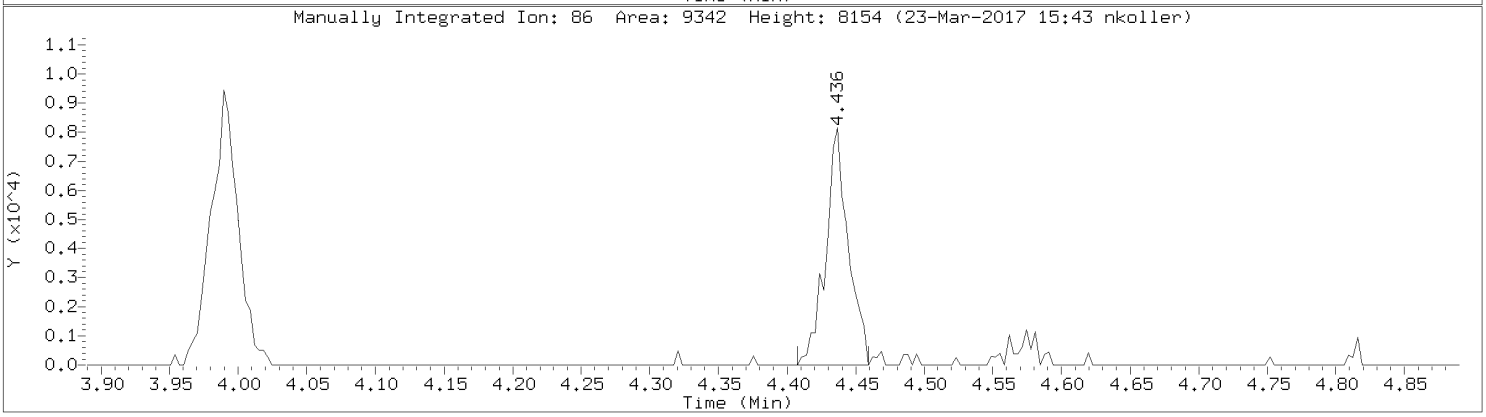
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08015.D
Injection Date: 21-MAR-2017 15:44
Instrument: 10airB.i
Lab Sample ID: 10381035005

Compound: Vinyl Acetate
CAS Number: 108-05-4



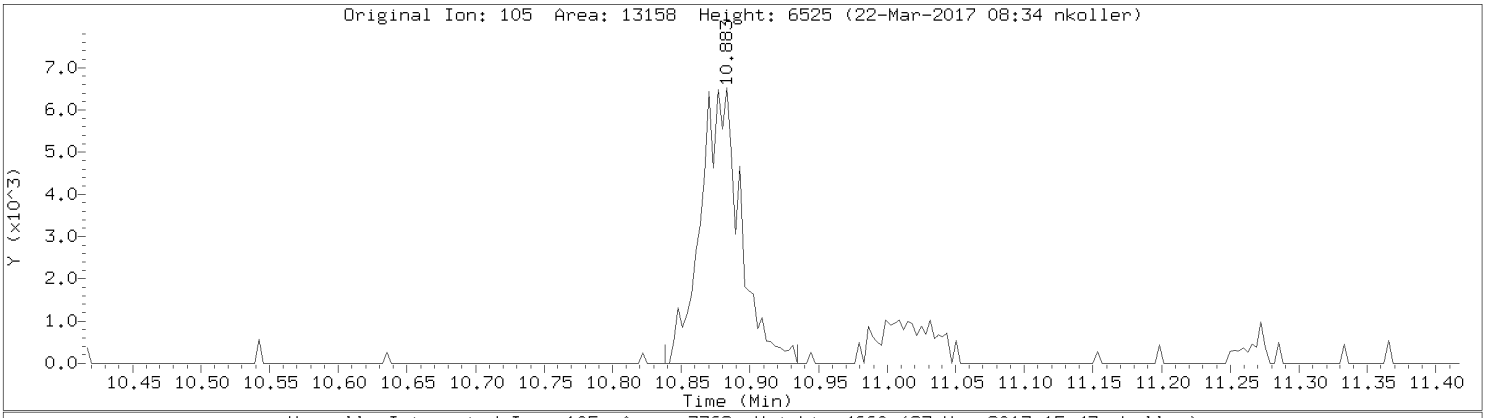


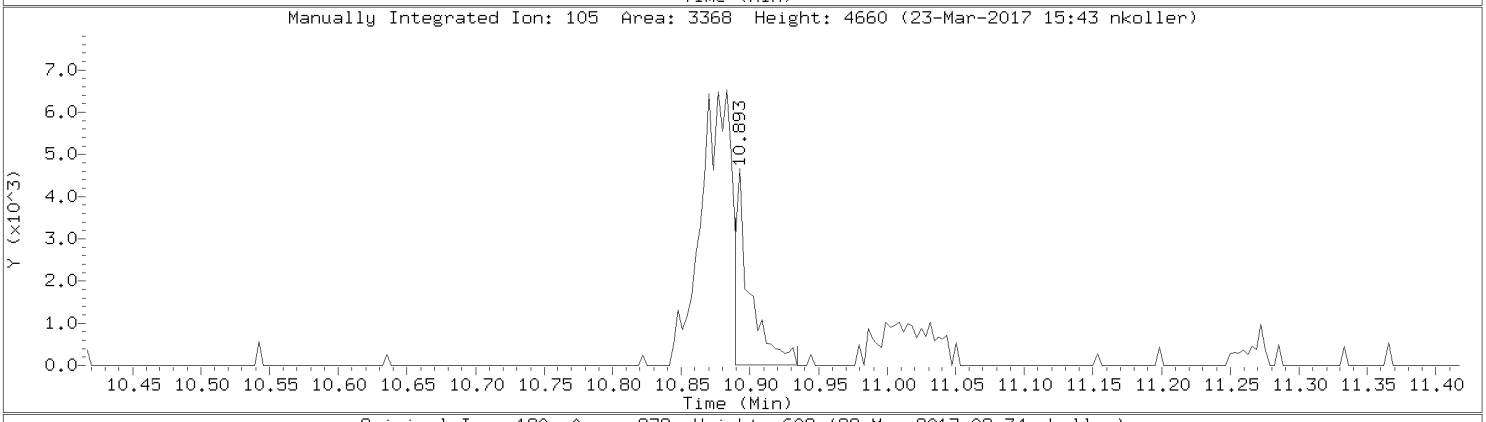


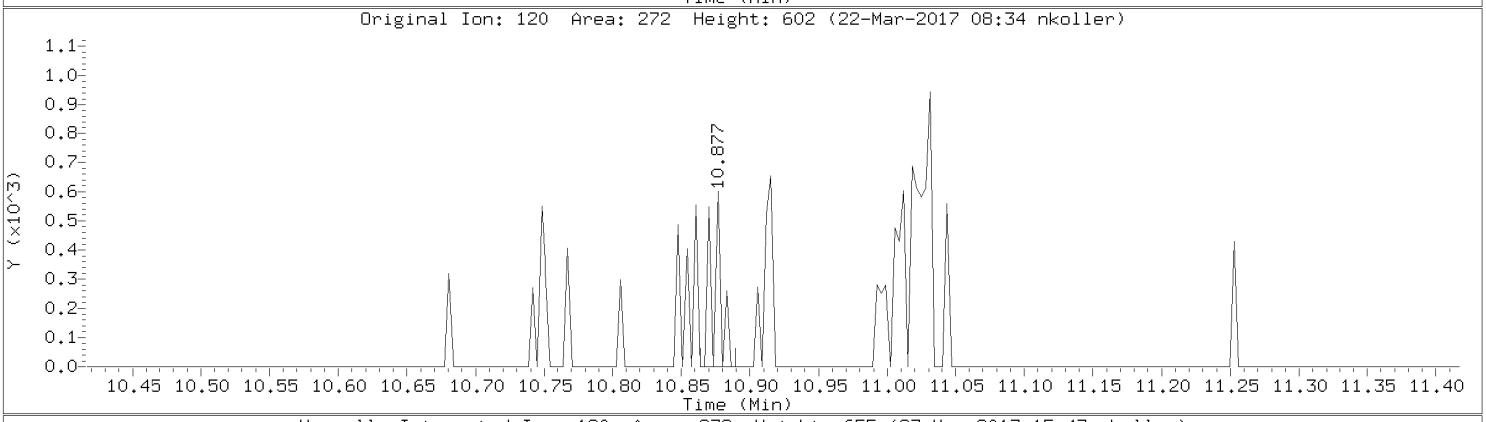


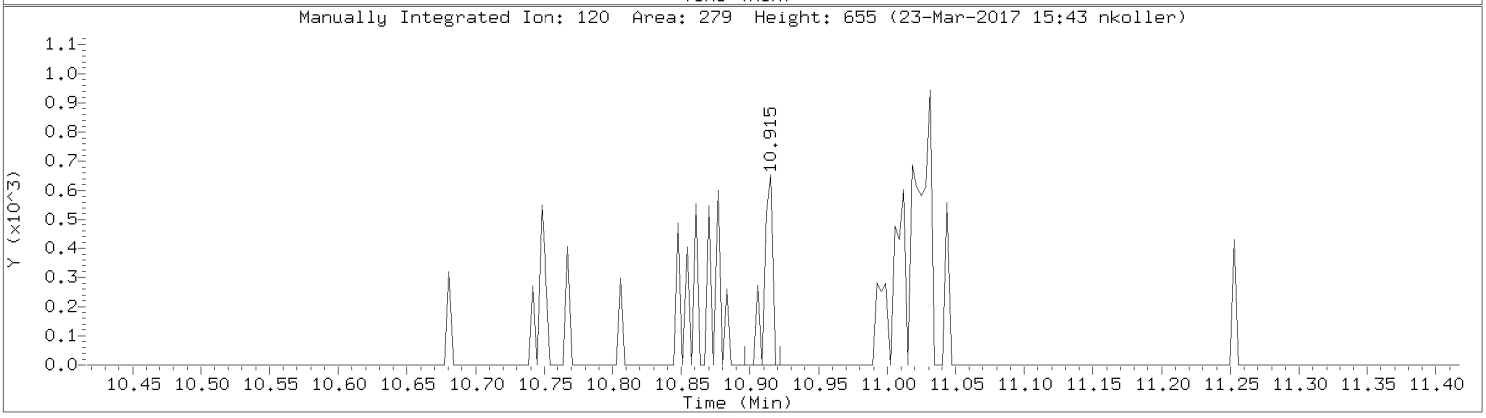
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08015.D
Injection Date: 21-MAR-2017 15:44
Instrument: 10airB.i
Lab Sample ID: 10381035005

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

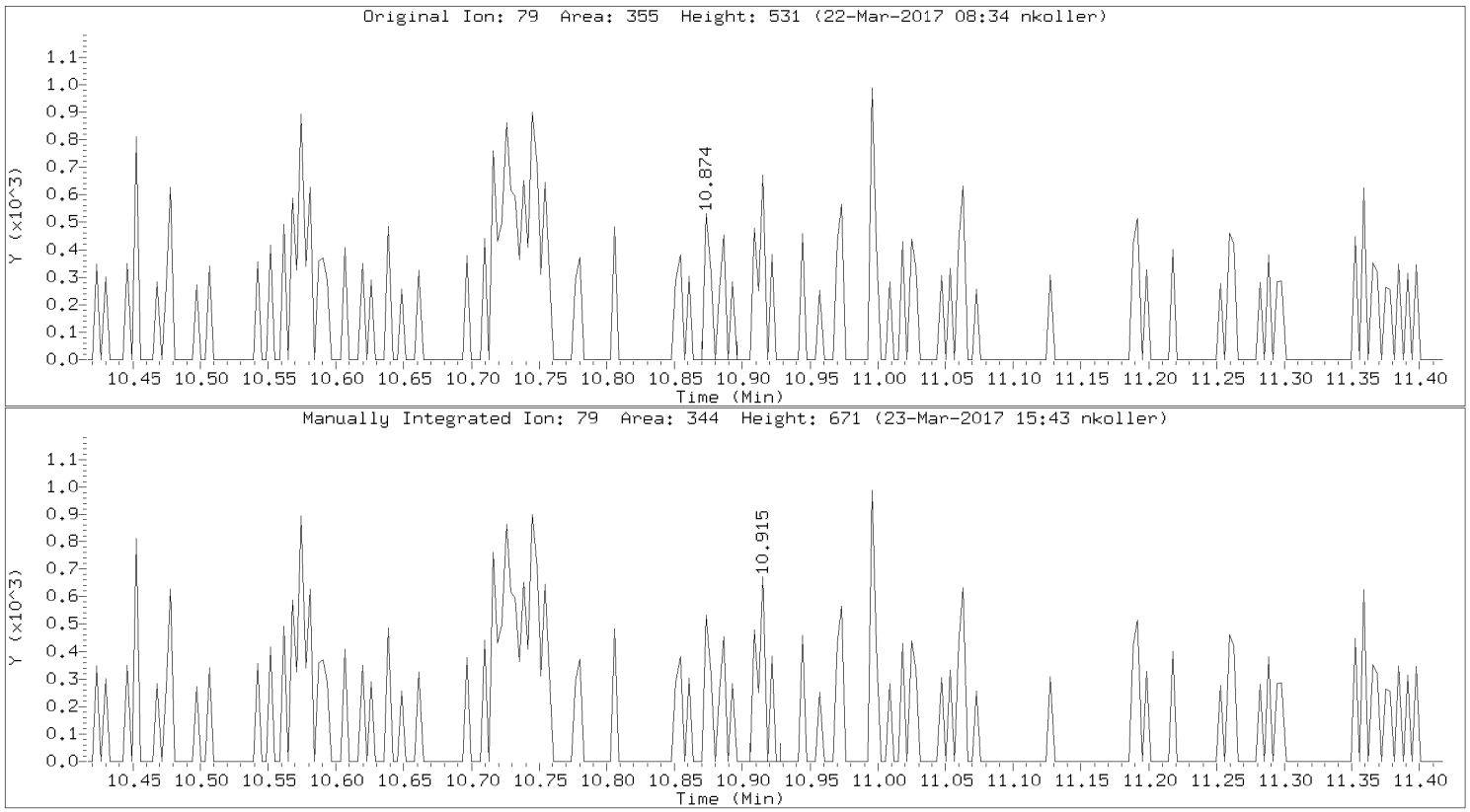








Data File: \\192.168.10.12\chem\10airB.i\032117.b/08015.D
Injection Date: 21-MAR-2017 15:44
Instrument: 10airB.i
Lab Sample ID: 10381035005



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_5_20170302 **Lab ID: 10381035005** Collected: 03/02/17 12:00 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/21/17 15:44	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/21/17 15:44	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 15:44	79-34-5	
Tetrachloroethene	**339**	ug/m3	1.2	0.49	1.75		03/21/17 15:44	127-18-4	
Toluene	**0.77J**	ug/m3	1.3	0.27	1.75		03/21/17 15:44	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 15:44	120-82-1	
1,1,1-Trichloroethane	**11.3**	ug/m3	1.9	0.43	1.75		03/21/17 15:44	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 15:44	79-00-5	
Trichloroethene	**21.7**	ug/m3	0.96	0.48	1.75		03/21/17 15:44	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.0	0.23	1.75		03/21/17 15:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.72J**	ug/m3	2.8	0.53	1.75		03/21/17 15:44	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.22	1.75		03/21/17 15:44	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/21/17 15:44	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 15:44	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/21/17 15:44	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 15:44	95-47-6	

Sample: VP-2_10_20170302 **Lab ID: 10381035006** Collected: 03/02/17 12:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**5.7**	ug/m3	4.2	1.5	1.75		03/21/17 16:16	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 16:16	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 16:16	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 16:16	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 16:16	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 16:16	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 16:16	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 16:16	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 16:16	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 16:16	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 16:16	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 16:16	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 16:16	75-00-3	
Chloroform	**1.7**	ug/m3	0.87	0.33	1.75		03/21/17 16:16	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 16:16	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 16:16	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 16:16	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 16:16	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 16:16	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 16:16	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 16:16	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 16:16	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_10_20170302 **Lab ID: 10381035006** Collected: 03/02/17 12:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 16:16	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 16:16	75-71-8	
1,1-Dichloroethane	**6.7**	ug/m3	1.4	0.27	1.75		03/21/17 16:16	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 16:16	107-06-2	
1,1-Dichloroethene	**13.5**	ug/m3	1.4	0.42	1.75		03/21/17 16:16	75-35-4	
cis-1,2-Dichloroethene	**1380**	ug/m3	1.4	0.43	1.75		03/21/17 16:16	156-59-2	
cis-1,2-Dichloroethene	**3180**	ug/m3	56.7	17.2	70		03/23/17 06:38	156-59-2	A3
trans-1,2-Dichloroethene	**4.7**	ug/m3	1.4	0.67	1.75		03/21/17 16:16	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 16:16	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 16:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 16:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 16:16	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 16:16	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 16:16	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 16:16	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/21/17 16:16	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 16:16	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.3	0.62	1.75		03/21/17 16:16	110-54-3	
2-Hexanone	**2.3J**	ug/m3	7.3	0.72	1.75		03/21/17 16:16	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 16:16	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 16:16	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 16:16	108-87-2	
Methylene Chloride	**8.5**	ug/m3	6.2	0.95	1.75		03/21/17 16:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 16:16	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 16:16	1634-04-4	
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/21/17 16:16	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/21/17 16:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 16:16	79-34-5	
Tetrachloroethene	**1080**	ug/m3	1.2	0.49	1.75		03/21/17 16:16	127-18-4	
Tetrachloroethene	**1930**	ug/m3	48.2	19.5	70		03/23/17 06:38	127-18-4	
Toluene	**0.75J**	ug/m3	1.3	0.27	1.75		03/21/17 16:16	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 16:16	120-82-1	
1,1,1-Trichloroethane	**7.2**	ug/m3	1.9	0.43	1.75		03/21/17 16:16	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 16:16	79-00-5	
Trichloroethene	**269**	ug/m3	0.96	0.48	1.75		03/21/17 16:16	79-01-6	
Trichlorofluoromethane	**1.6J**	ug/m3	2.0	0.23	1.75		03/21/17 16:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.4J**	ug/m3	2.8	0.53	1.75		03/21/17 16:16	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.22	1.75		03/21/17 16:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/21/17 16:16	108-67-8	
Vinyl chloride	**7.9**	ug/m3	0.46	0.34	1.75		03/21/17 16:16	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/21/17 16:16	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 16:16	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D
Report Date: 23-Mar-2017 15:44

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08016.D
Lab Smp Id: 10381035006
Inj Date : 21-MAR-2017 16:16
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 16
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	3.234	3.243	(0.576)	123428	1.73093	3.03	
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.555	3.545	(0.634)	32788	1.36151	2.38	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.587	3.603	(0.639)	23766	0.10592	0.185	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.661	3.677	(0.653)	21193	0.16282	0.285	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.745	3.722	(0.668)	139130	1.33813	2.34	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.896	3.912	(0.695)	180368	1.91618	3.35	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.938	3.951	(0.702)	10266	0.10351	0.181	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D
Report Date: 23-Mar-2017 15:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	4.005	(0.711)	117637	1.37623	2.41	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.253	4.275	(0.758)	30175	0.66019	1.16	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	92939	0.93736	1.64	
$	32 Hexane-d14(S)	66	4.488	4.491	(0.800)	2094788	9.50118	9.50	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.584	4.587	(0.817)	20593	0.18670	0.327(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.722	4.725	(0.842)	11003271	196.027	343(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.835	4.841	(0.862)	22584	0.19262	0.337	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.230	5.233	(0.932)	101520	0.73706	1.29	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.610	5.613	(1.000)	6432640	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.983	5.986	(1.066)	2440173	28.1691	49.3	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.073	7.076	(1.261)	5721588	9.65904	9.66	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.150	7.153	(1.275)	23951	0.11131	0.195	
	62 Methyl Butyl Ketone	43	7.391	7.368	(0.855)	3812	0.31166	0.545(Q)	
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.989	7.986	(0.924)	8408763	89.4967	157(A)	
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	4141997	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D
Report Date: 23-Mar-2017 15:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.375	11.381	(2.028)	16947	0.13150	0.230(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	2498	0.14248	0.249	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	1904320	9.52733	9.53	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	1739	0.43933	0.769	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D
Report Date: 23-Mar-2017 15:44

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08016.D
Lab Smp Id: 10381035006
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

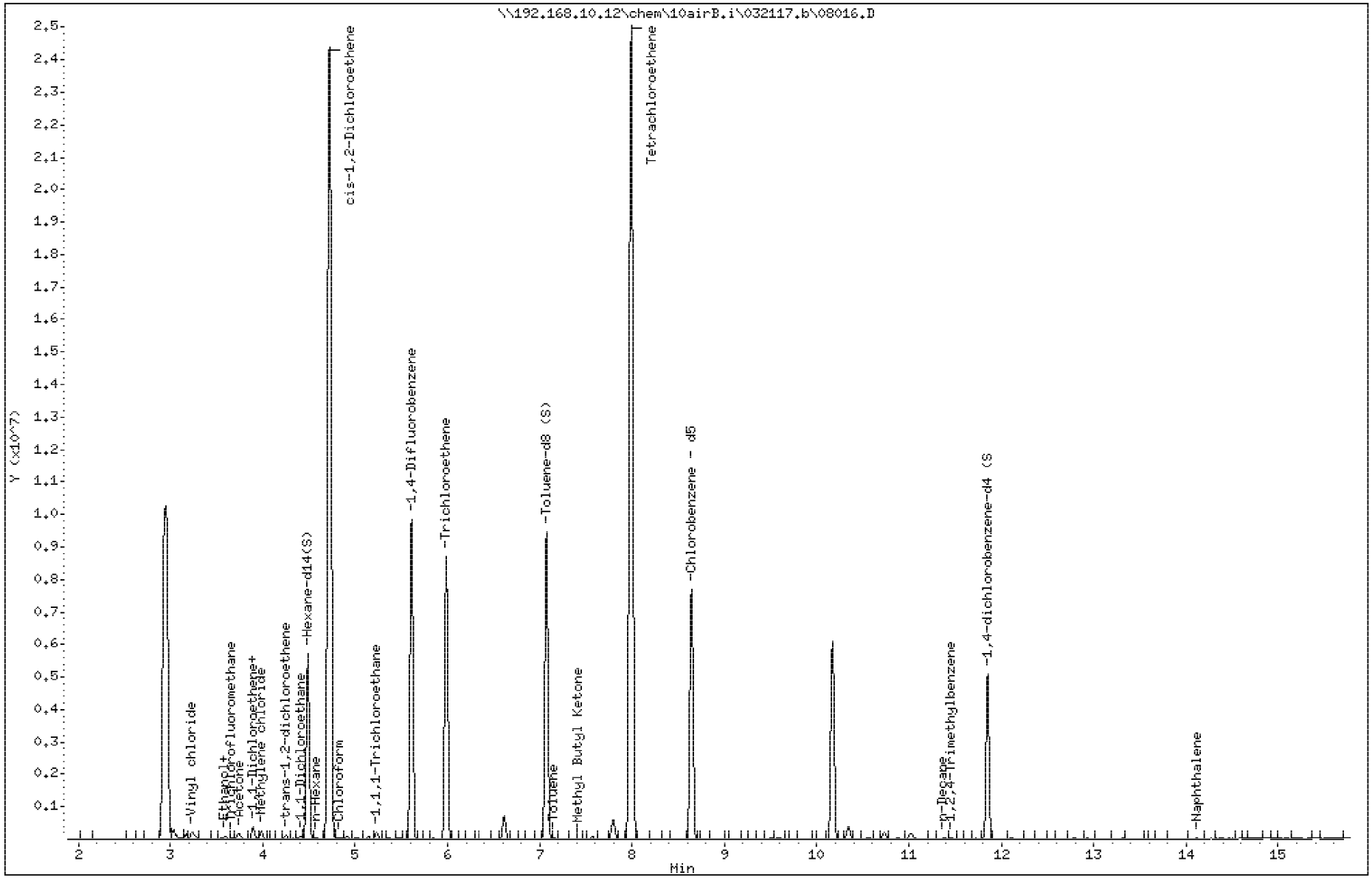
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6432640	-15.82
67 Chlorobenzene - d	5205948	3123569	7288327	4141997	-20.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.05
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D
Date : 21-MAR-2017 16:16
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

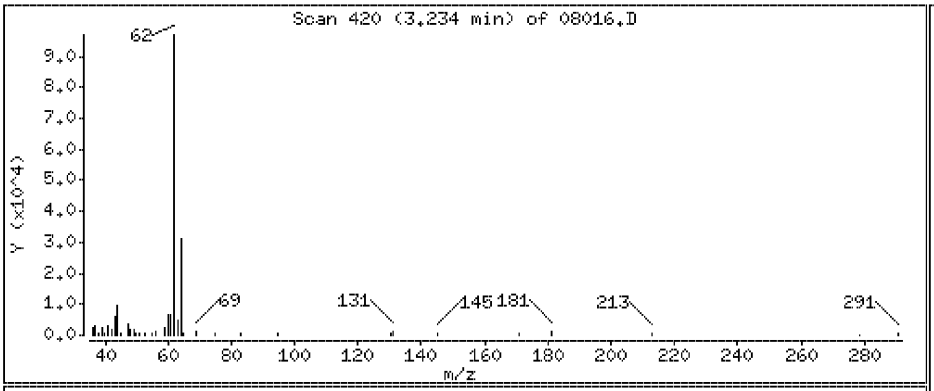
Operator: NCK

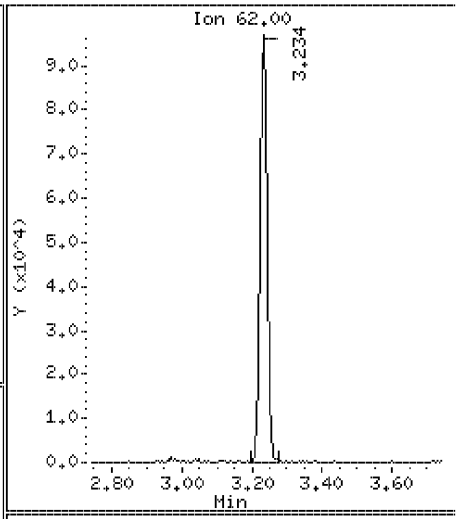
Column phase: J&W DB-5

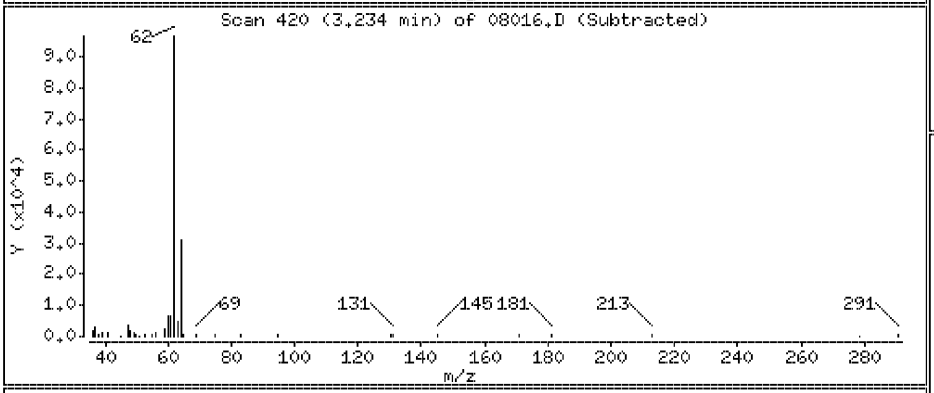
Column diameter: 0.32

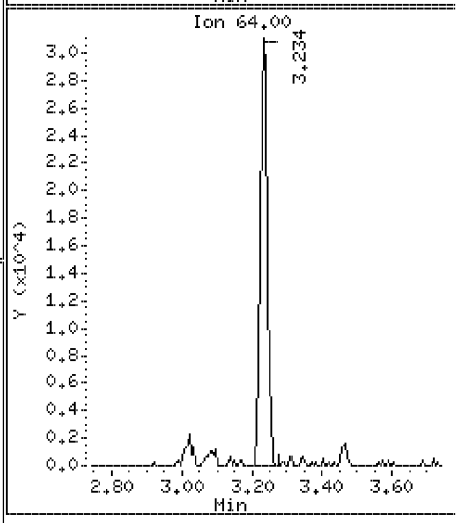
8 Vinyl chloride

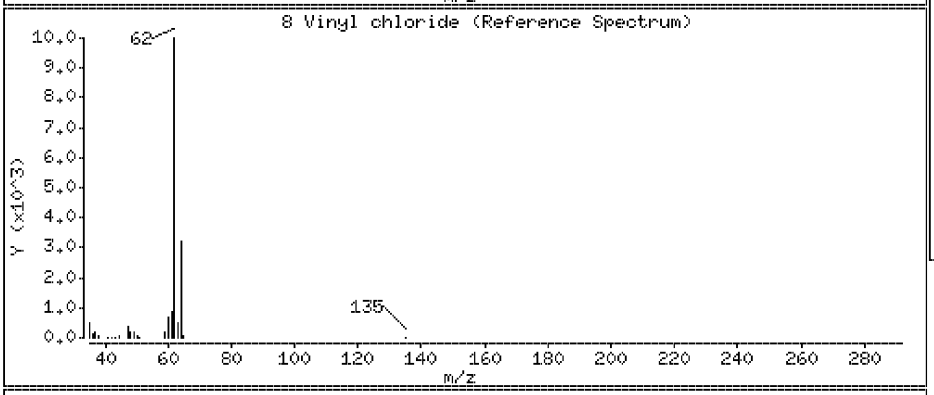
Concentration: 3.03 ppbv

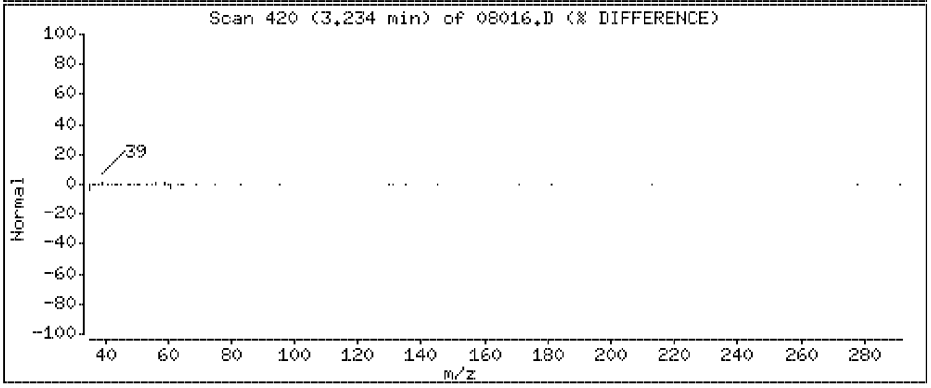












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

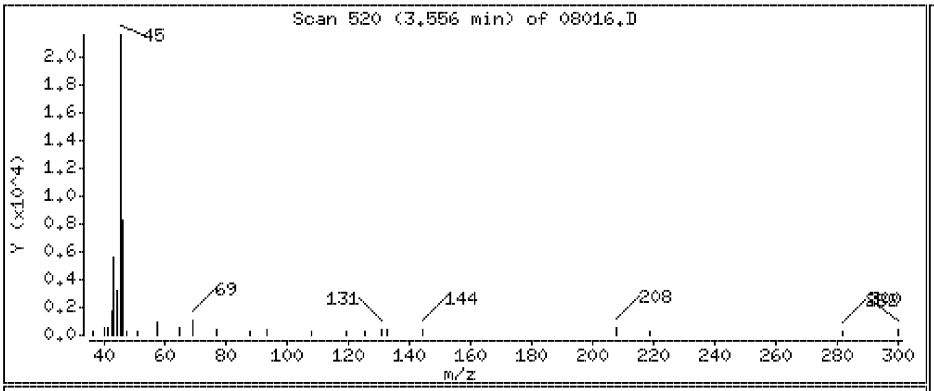
Operator: NCK

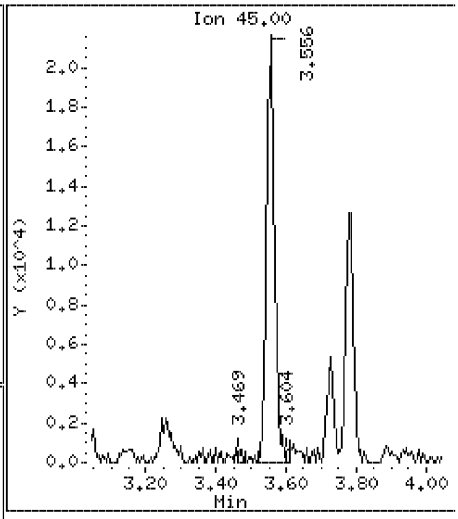
Column phase: J&W DB-5

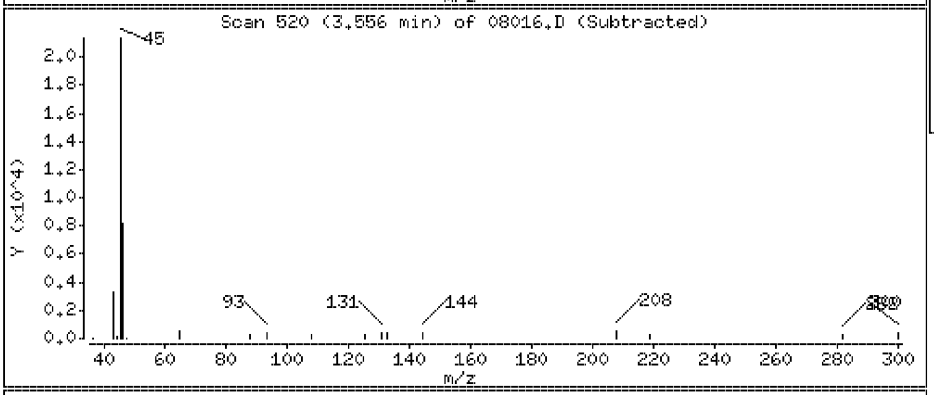
Column diameter: 0.32

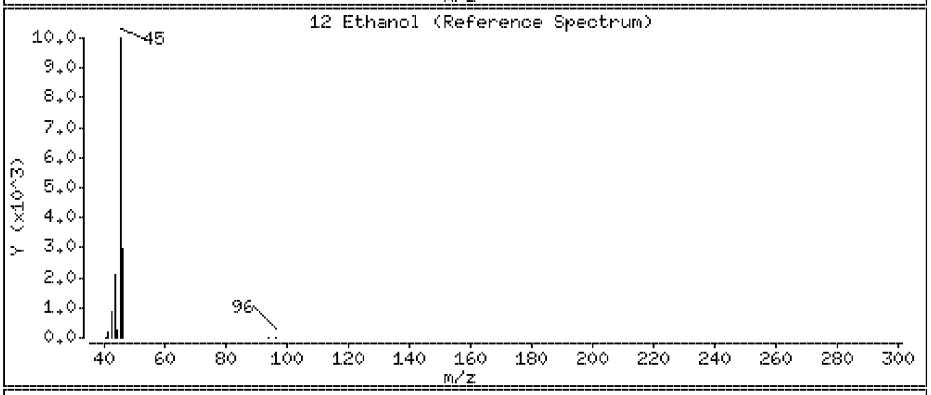
12 Ethanol

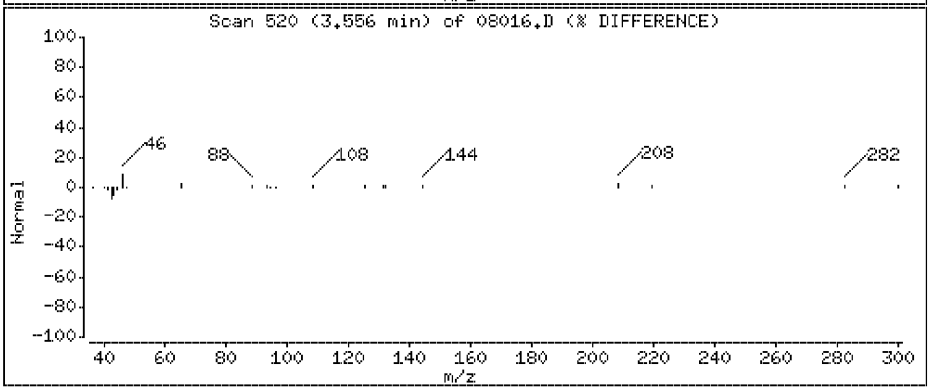
Concentration: 2.38 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

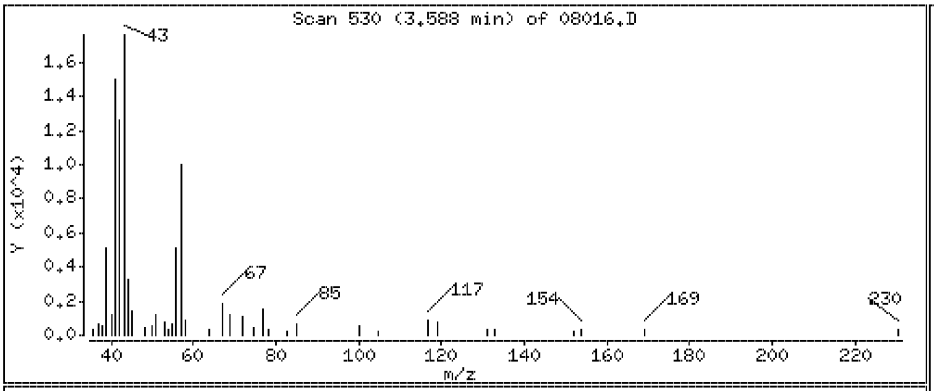
Operator: NCK

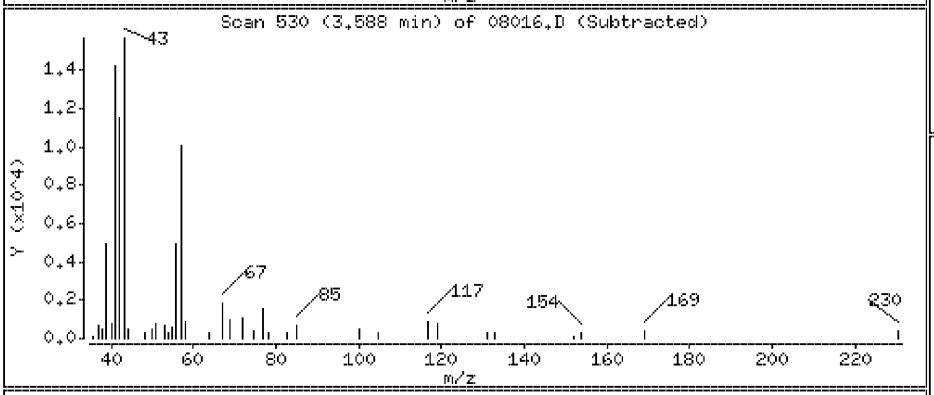
Column phase: J&W DB-5

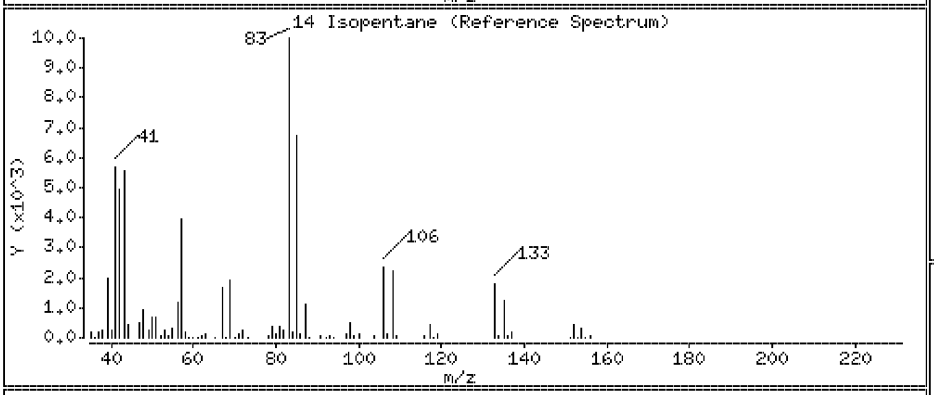
Column diameter: 0.32

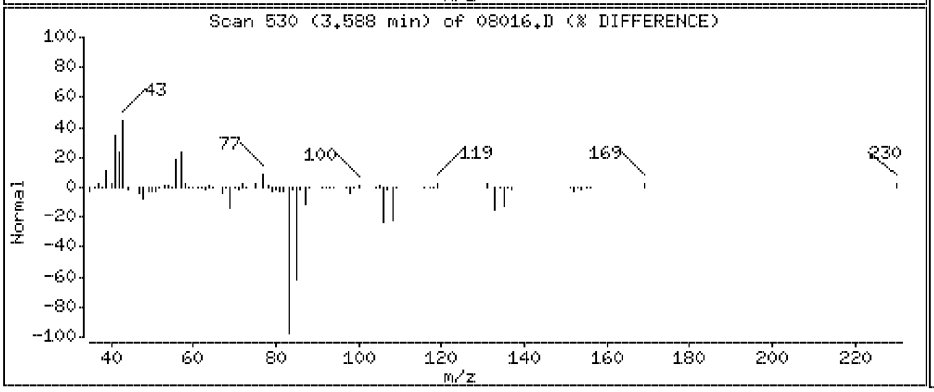
14 Isopentane

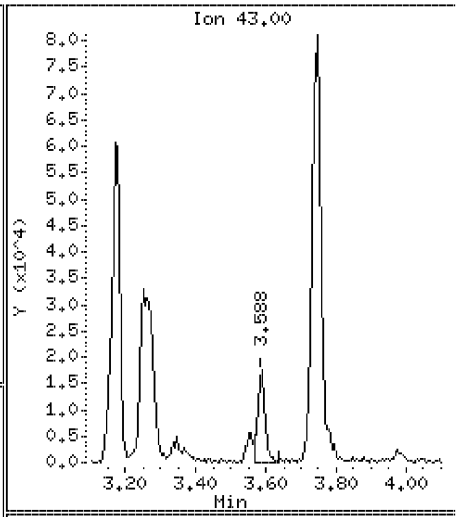
Concentration: 0.185 ppbv

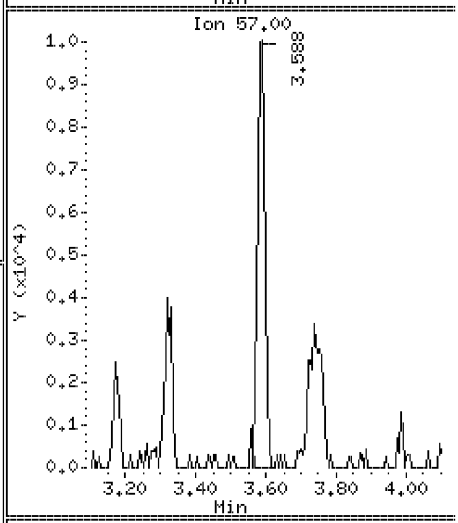


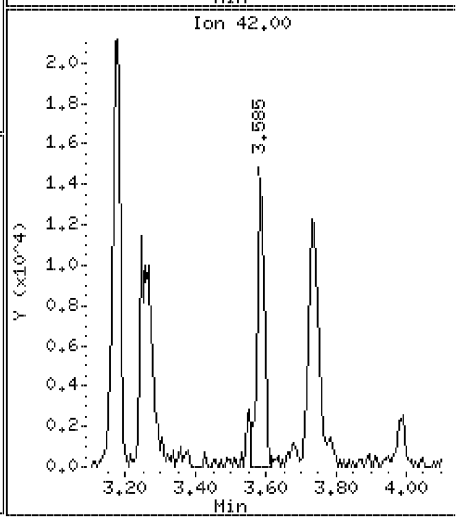












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

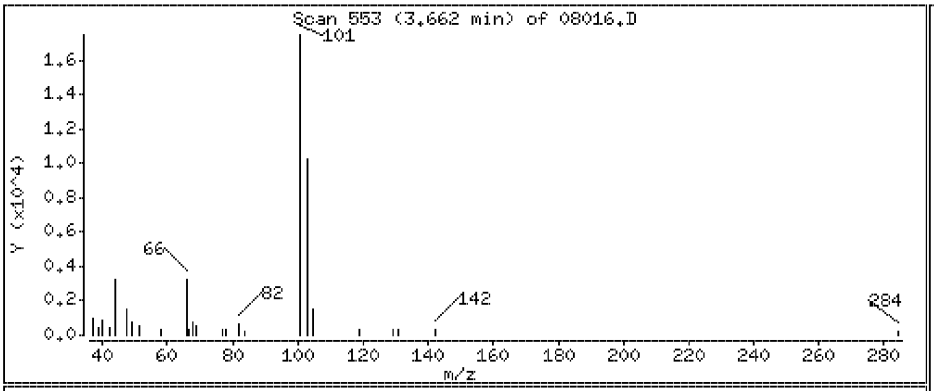
Operator: NCK

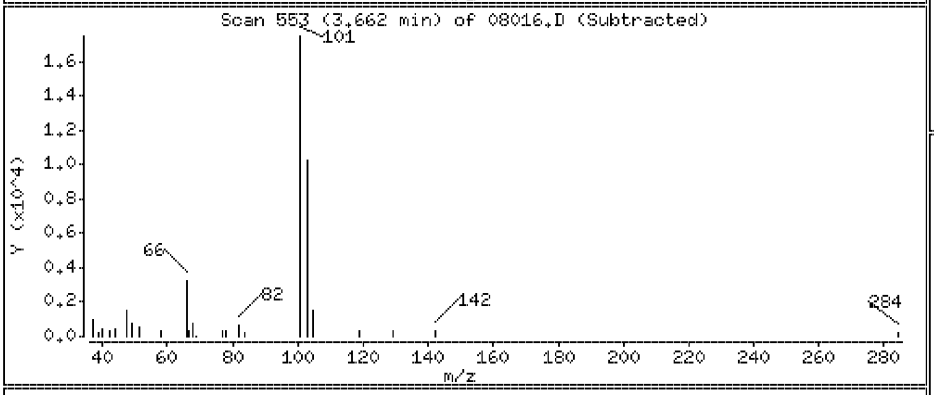
Column phase: J&W DB-5

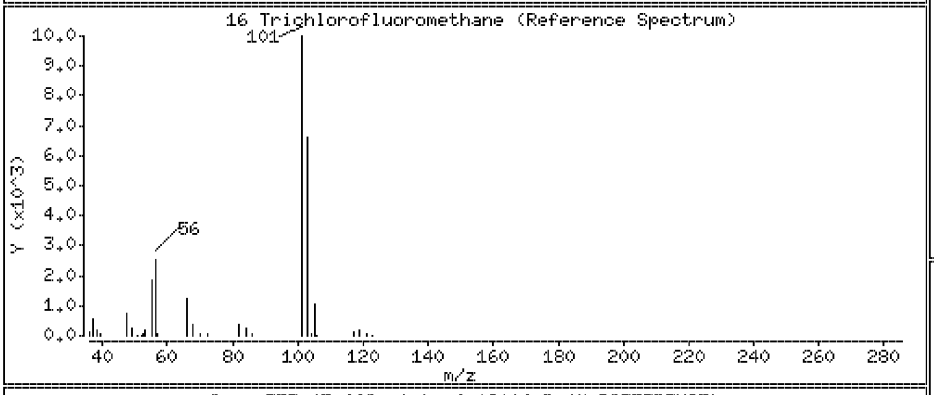
Column diameter: 0.32

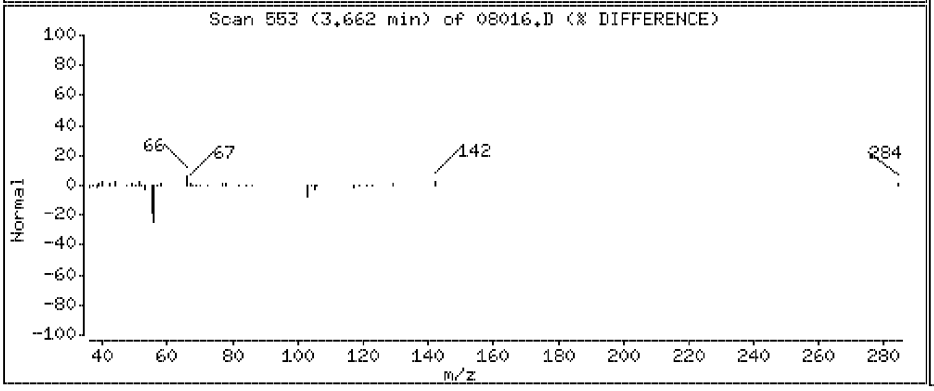
16 Trichlorofluoromethane

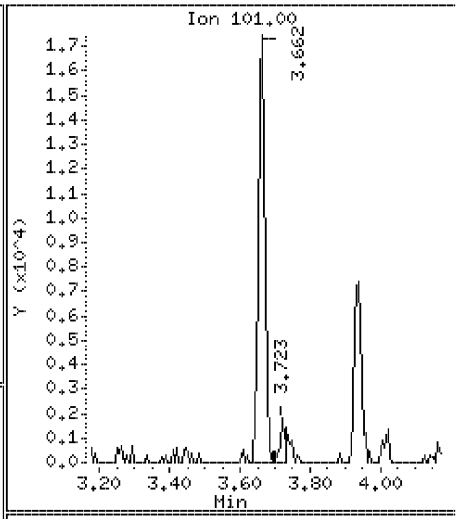
Concentration: 0.285 ppbv

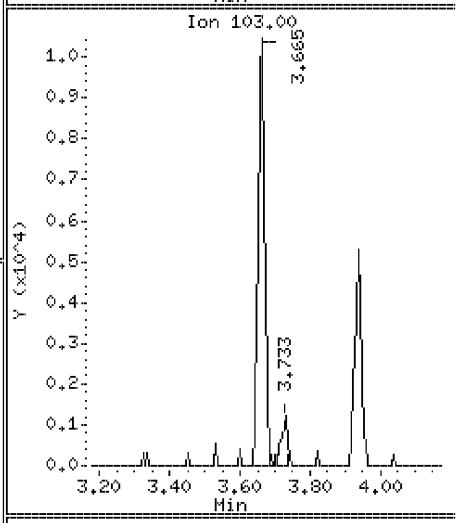


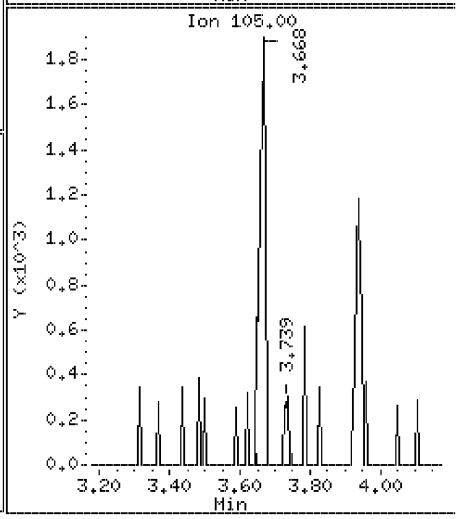












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

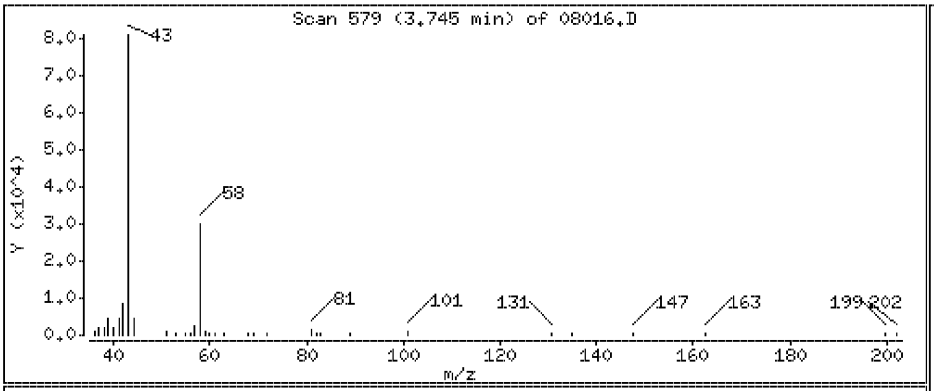
Operator: NCK

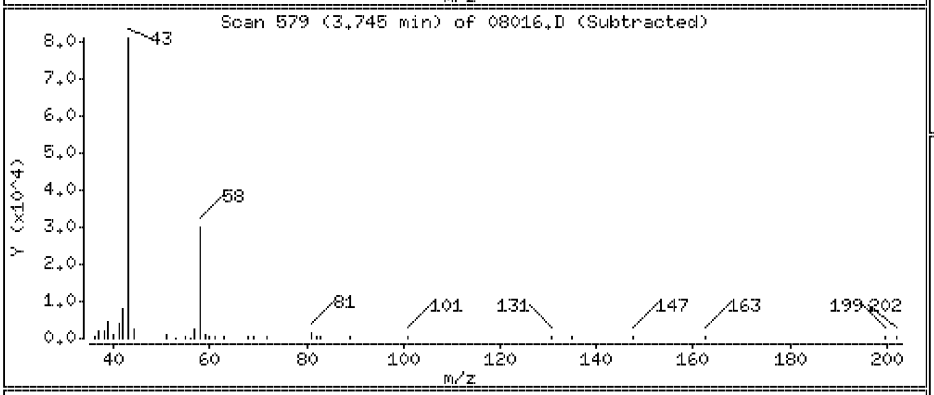
Column phase: J&W DB-5

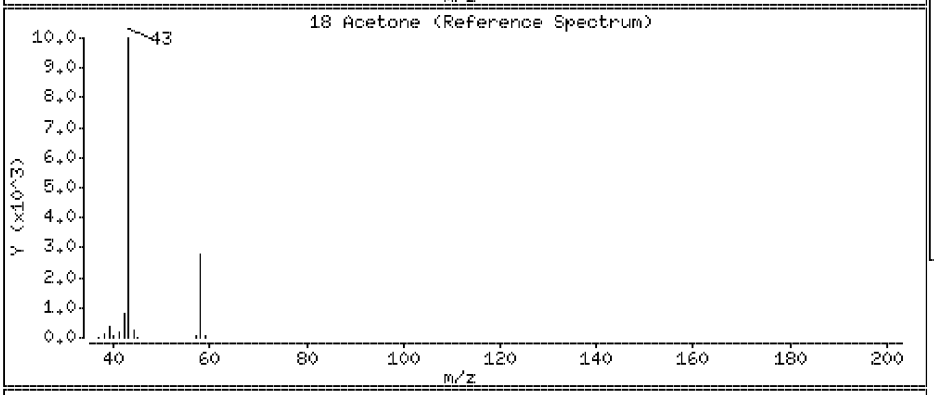
Column diameter: 0.32

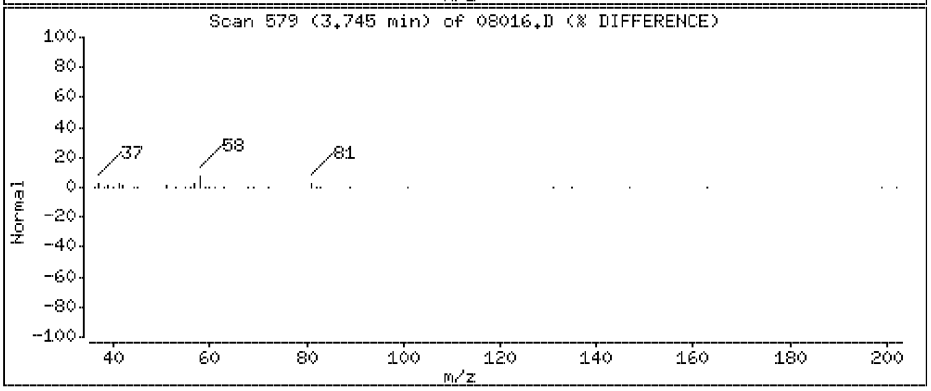
18 Acetone

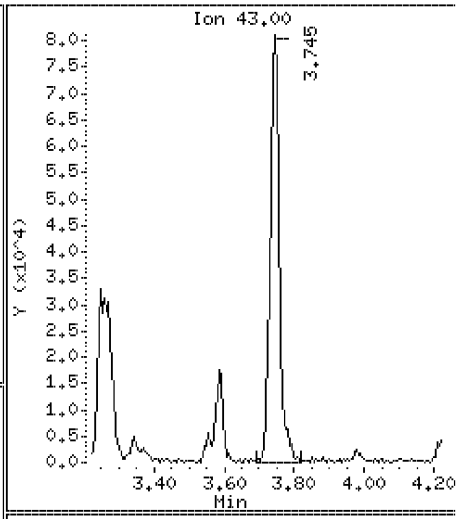
Concentration: 2.34 ppbv

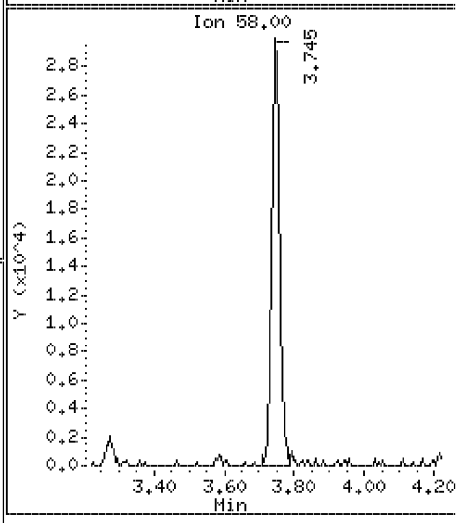












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

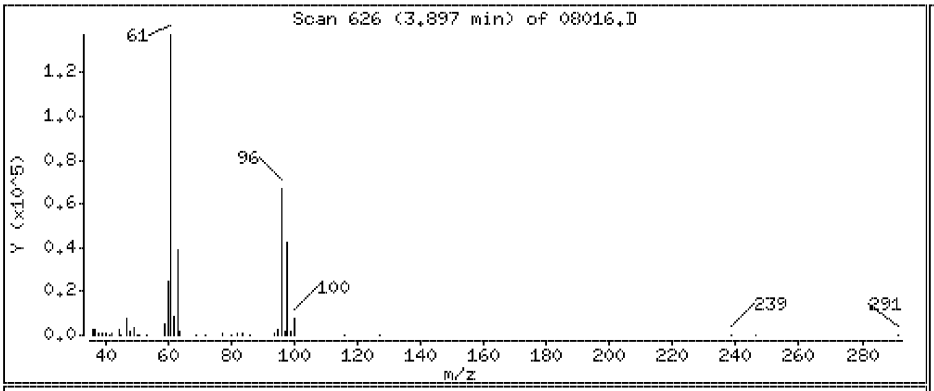
Operator: NCK

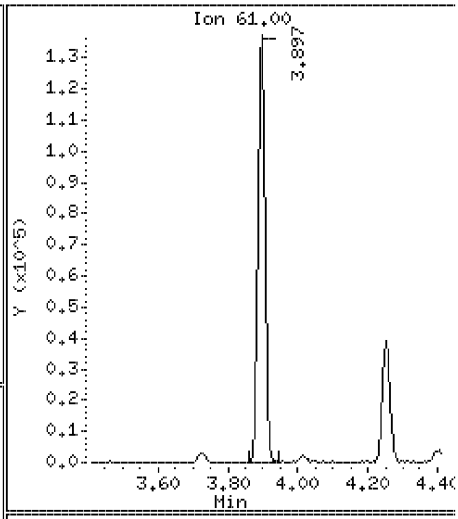
Column phase: J&W DB-5

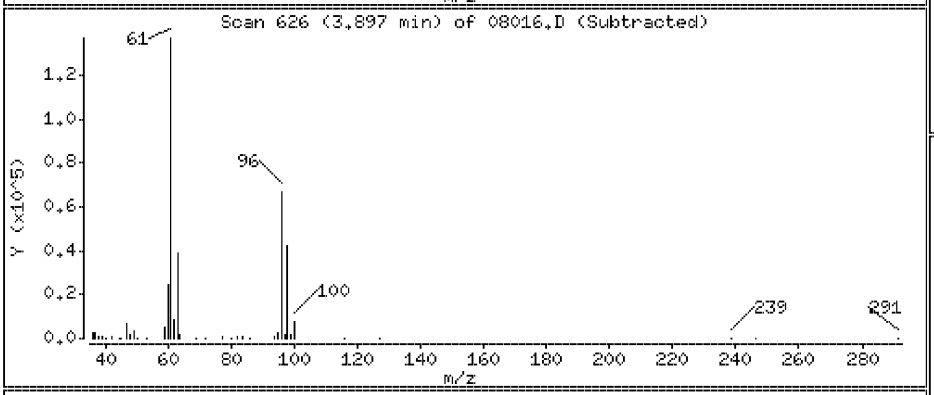
Column diameter: 0.32

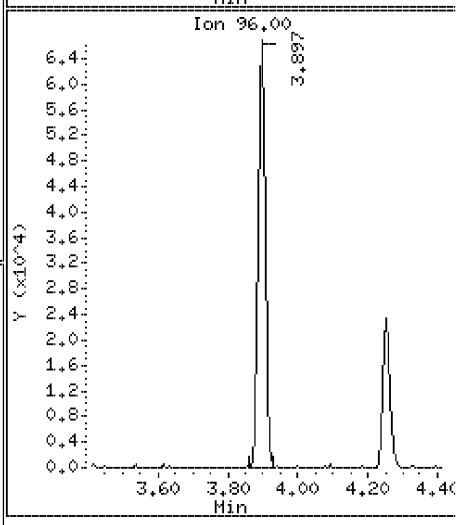
20 1,1-Dichloroethene

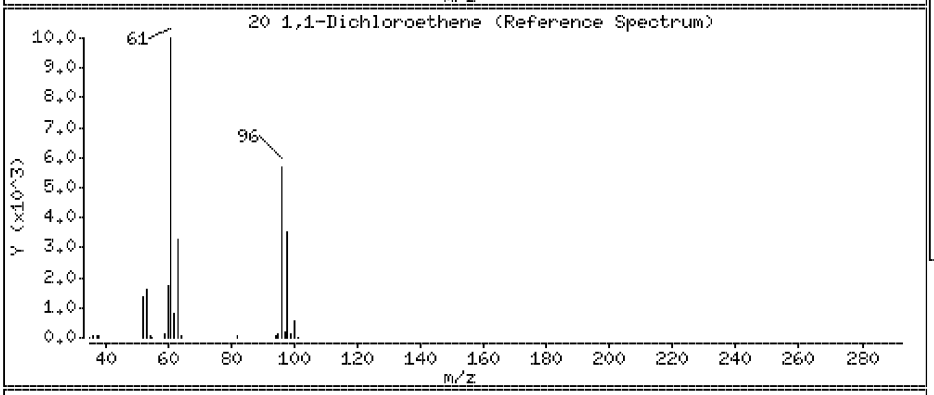
Concentration: 3.35 ppbv

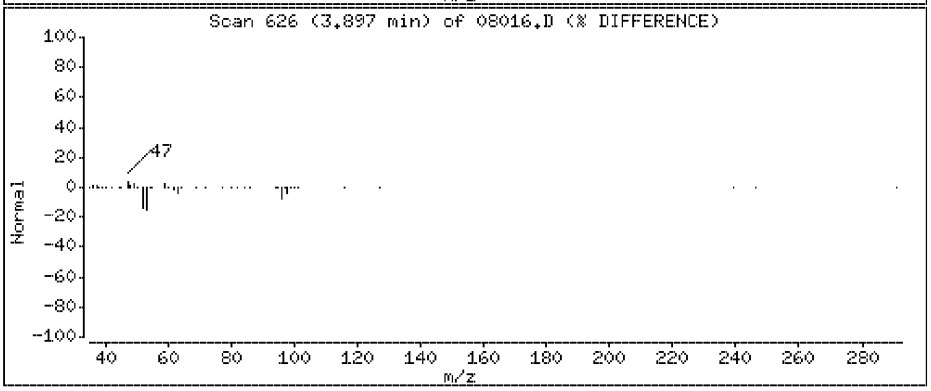












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

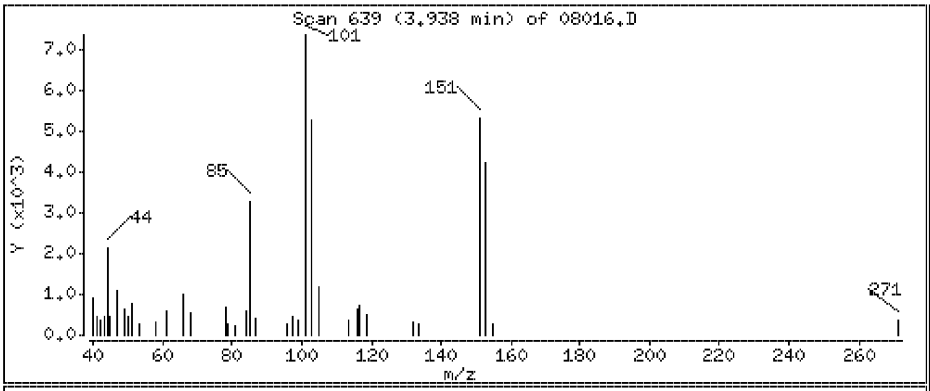
Operator: NCK

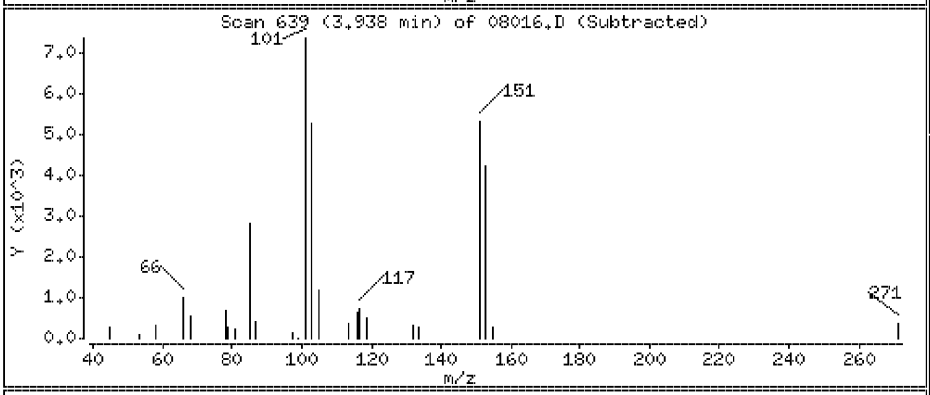
Column phase: J&W DB-5

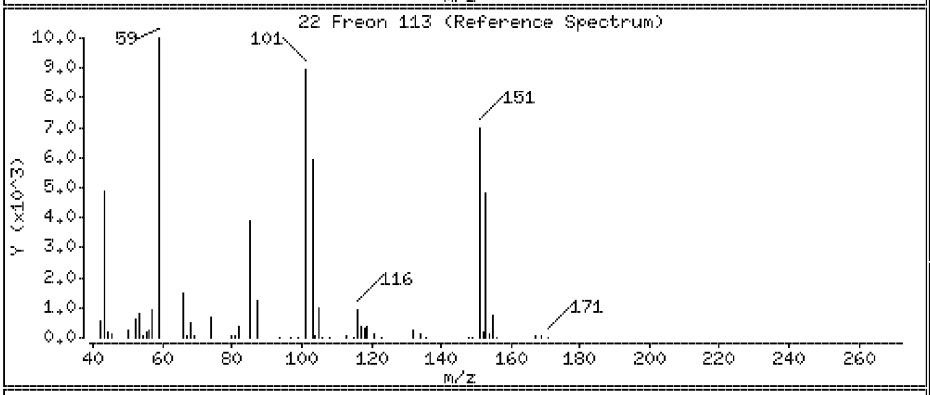
Column diameter: 0.32

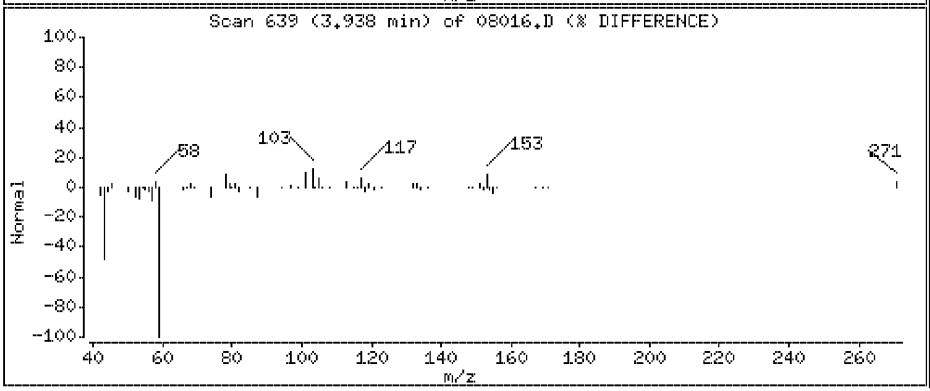
22 Freon 113

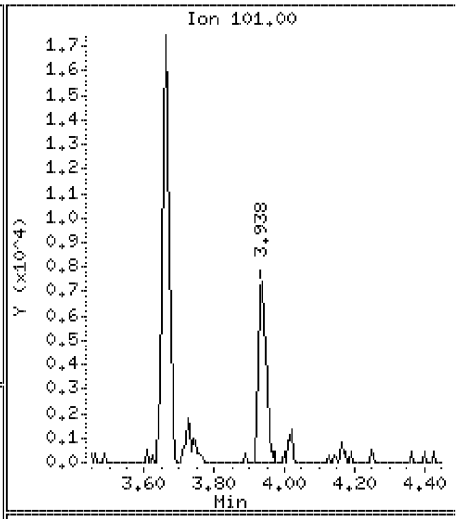
Concentration: 0.181 ppbv

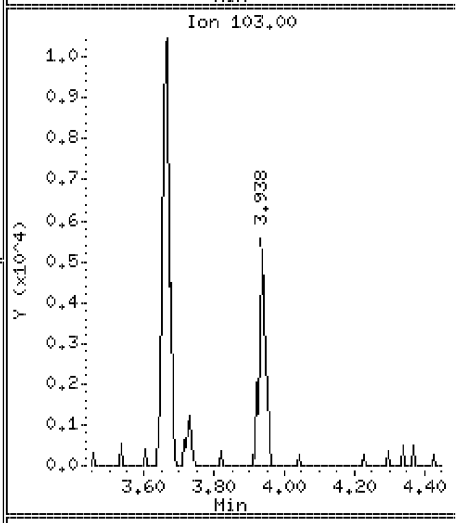


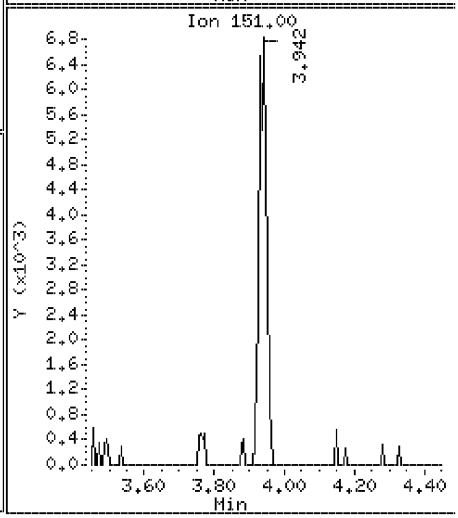












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

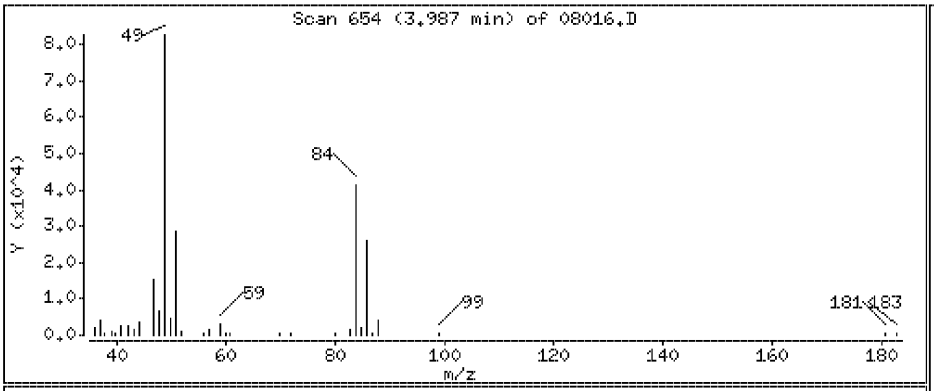
Operator: NCK

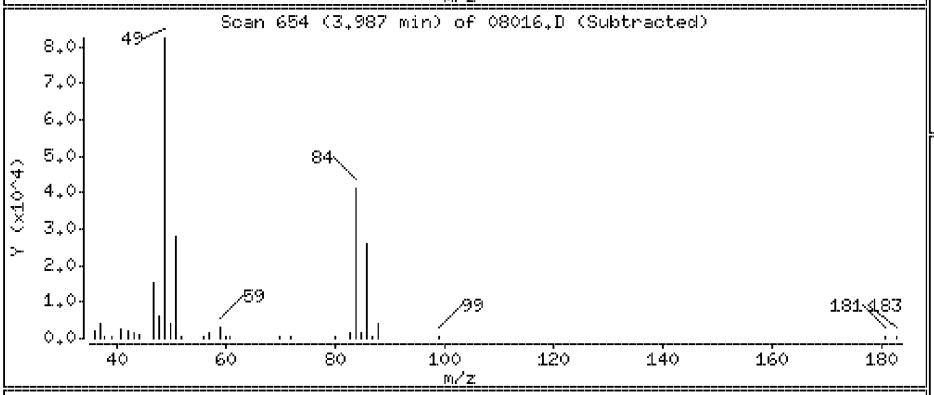
Column phase: J&W DB-5

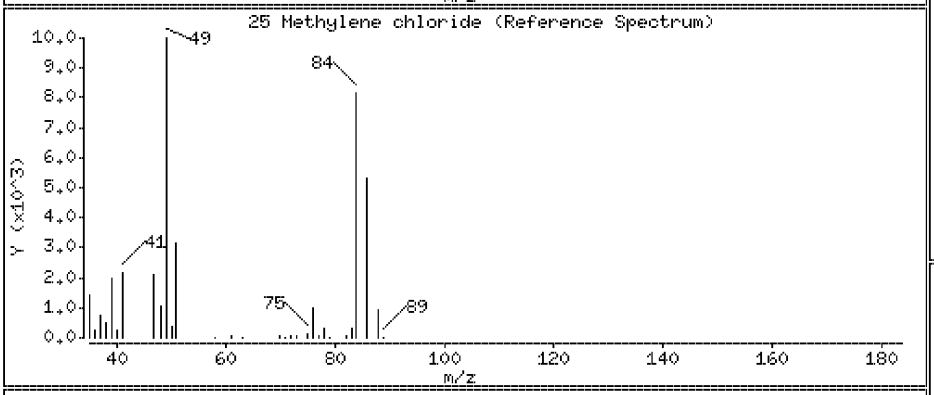
Column diameter: 0.32

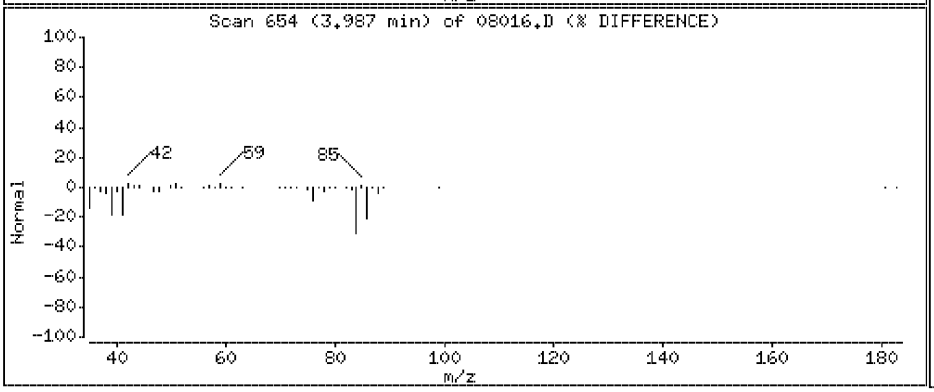
25 Methylene chloride

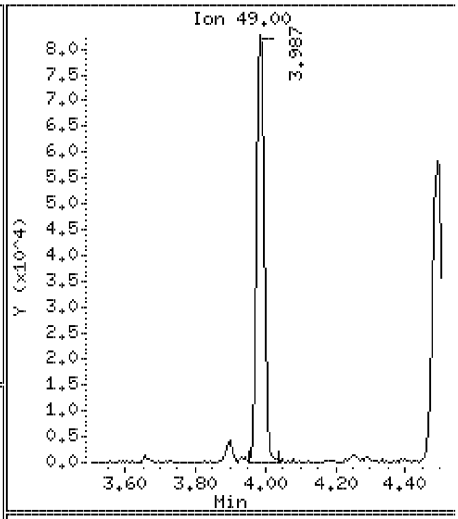
Concentration: 2.41 ppbv

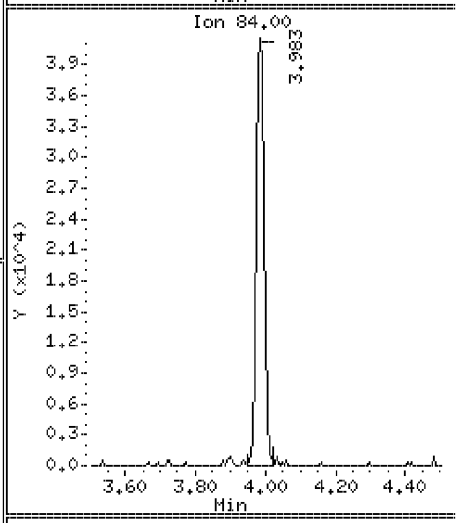


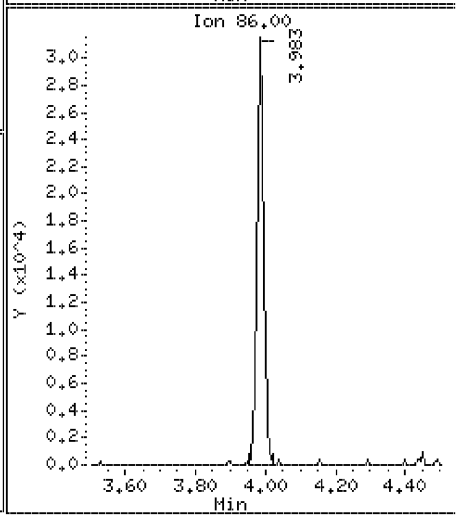












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

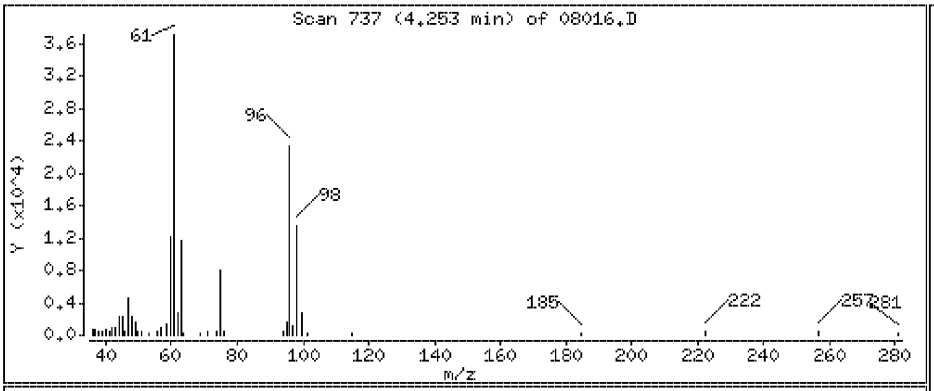
Operator: NCK

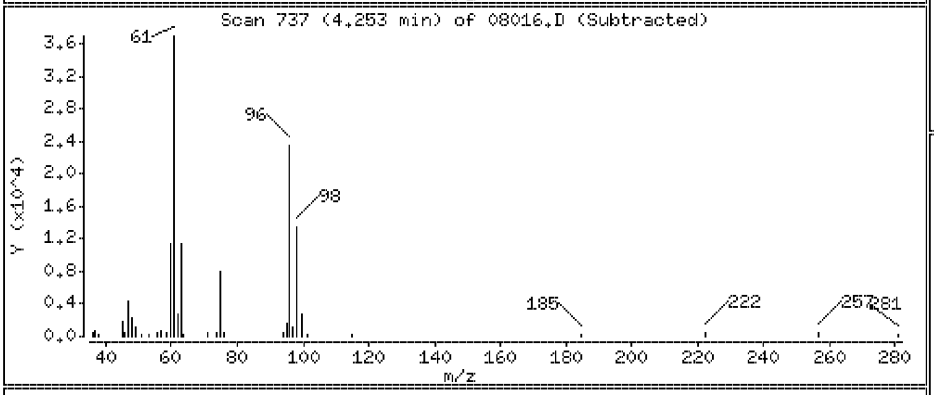
Column phase: J&W DB-5

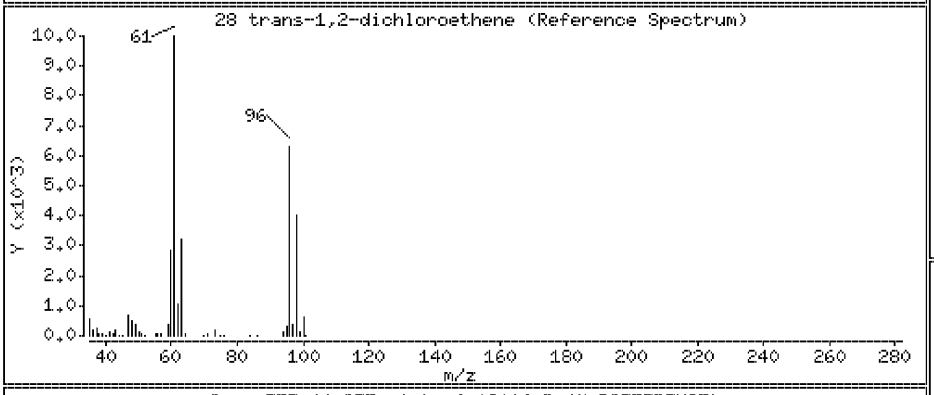
Column diameter: 0.32

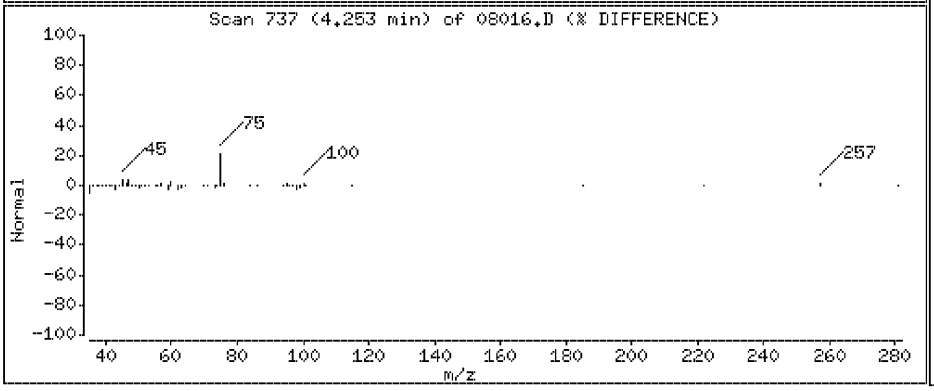
28 trans-1,2-dichloroethene

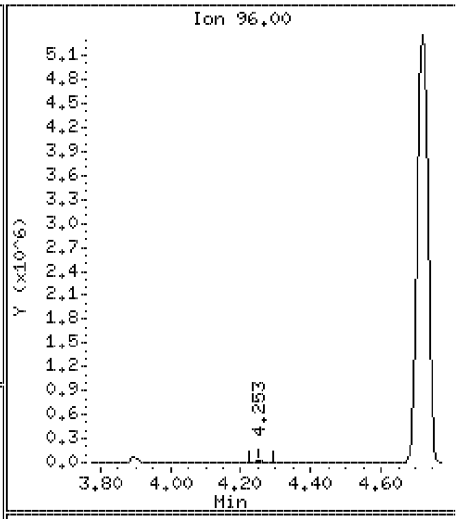
Concentration: 1.16 ppbv

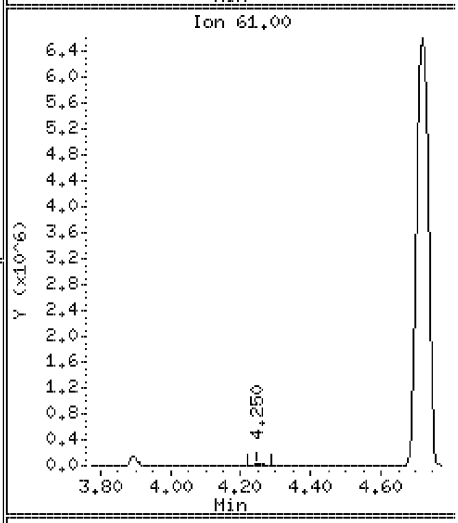


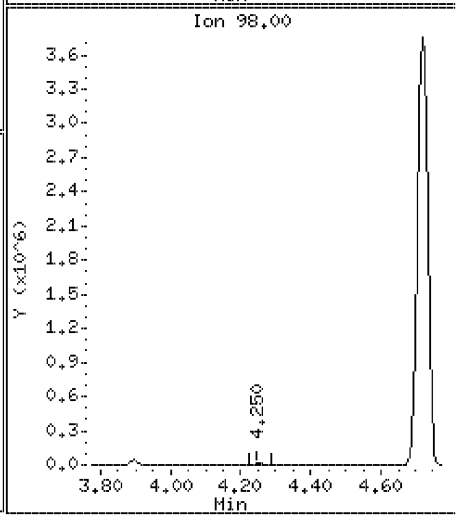












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

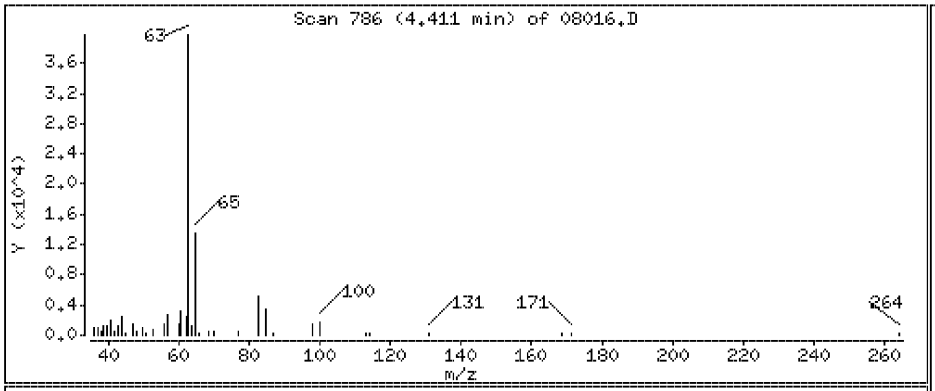
Operator: NCK

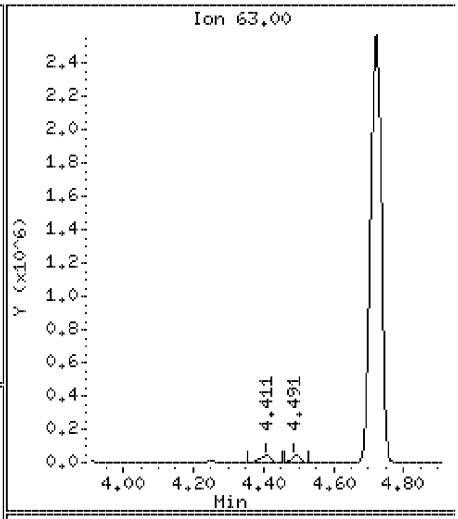
Column phase: J&W DB-5

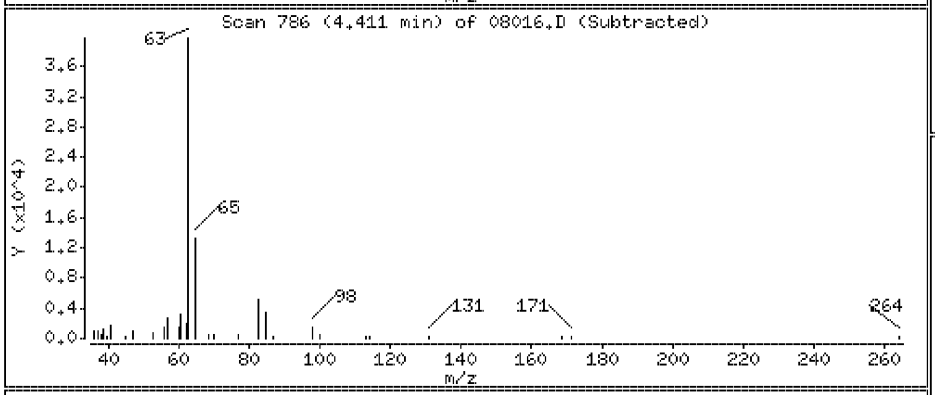
Column diameter: 0.32

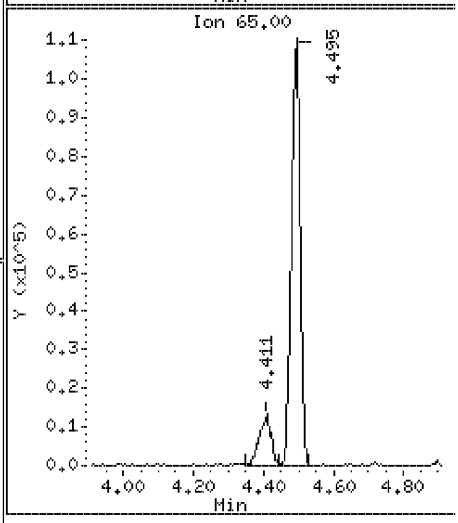
31 1,1-Dichloroethane

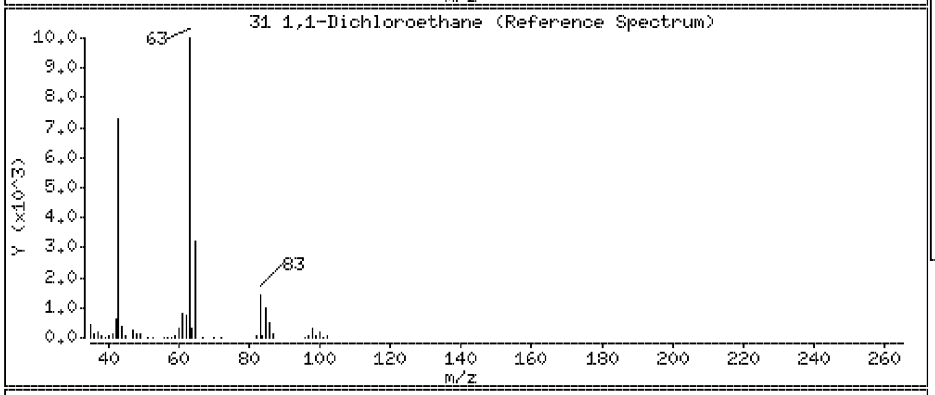
Concentration: 1.64 ppbv

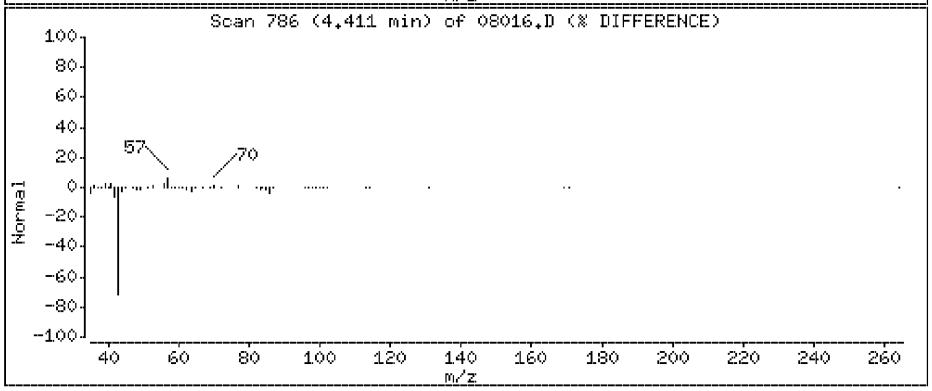












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

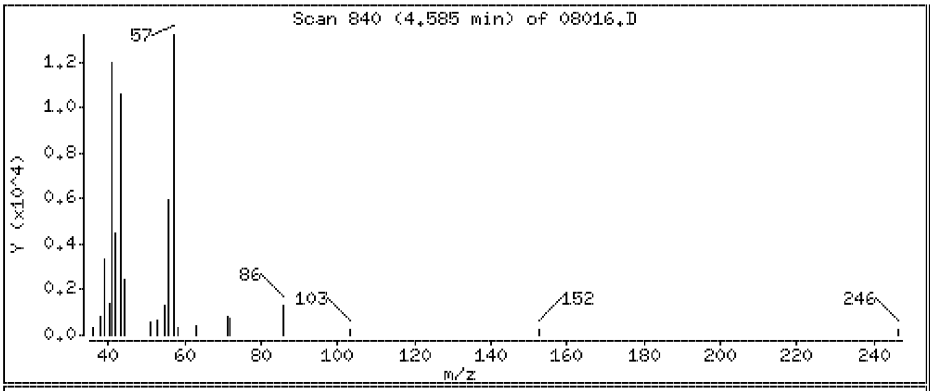
Operator: NCK

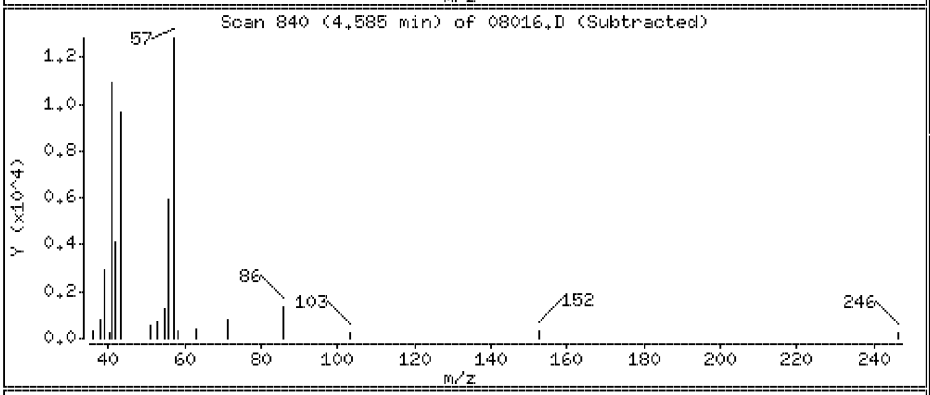
Column phase: J&W DB-5

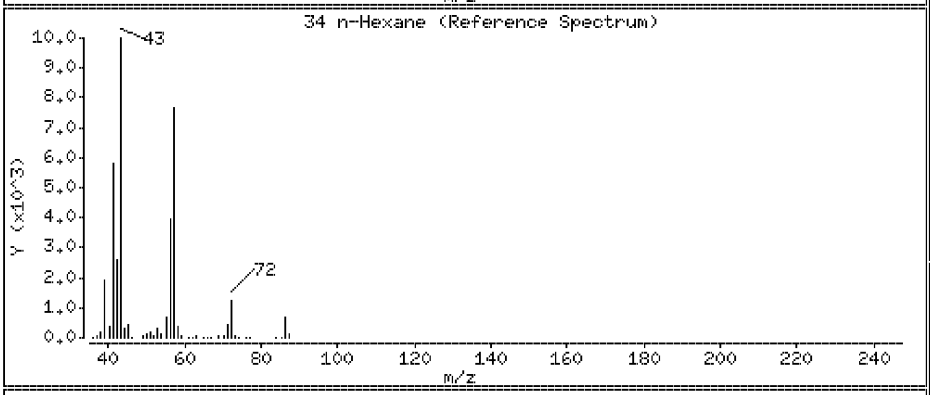
Column diameter: 0.32

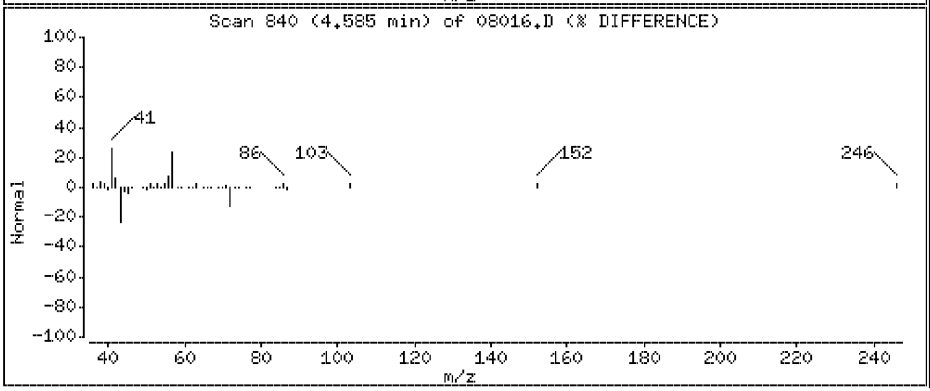
34 n-Hexane

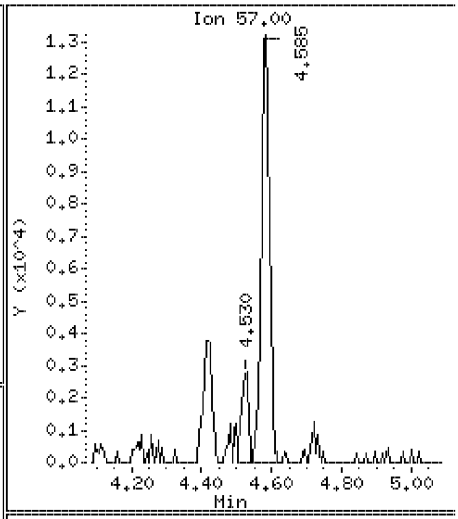
Concentration: 0.327 ppbv

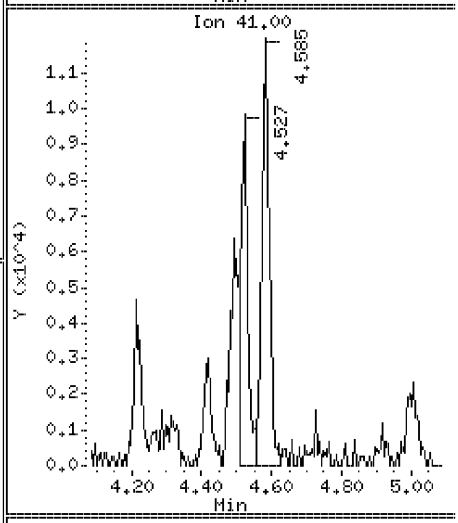


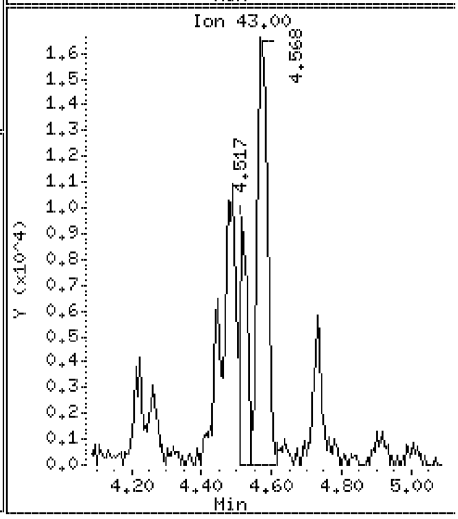












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

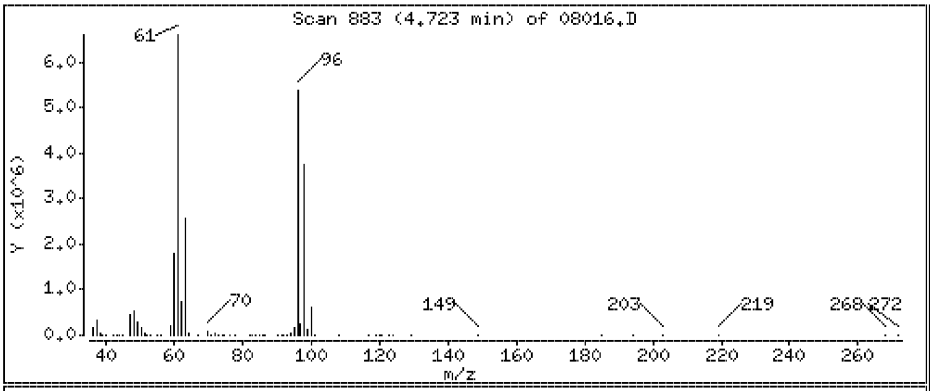
Operator: NCK

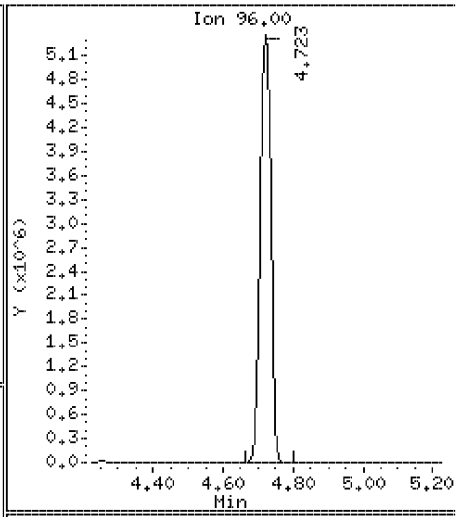
Column phase: J&W DB-5

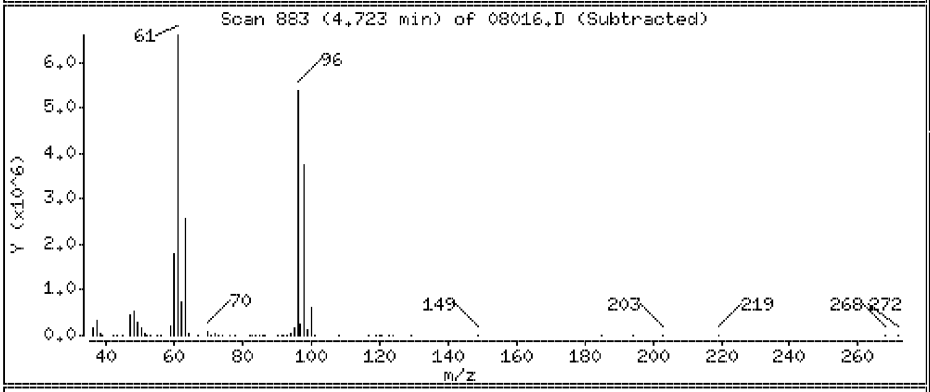
Column diameter: 0.32

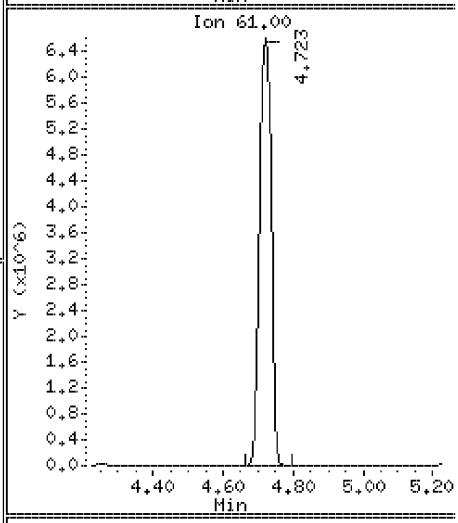
37 cis-1,2-Dichloroethene

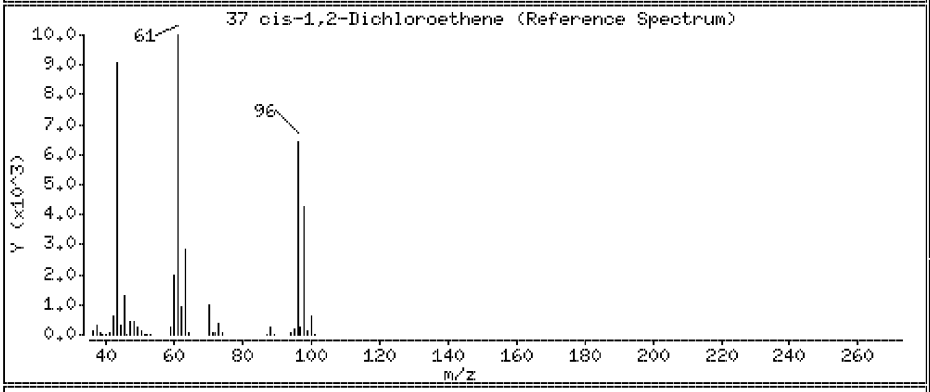
Concentration: 343 ppbv

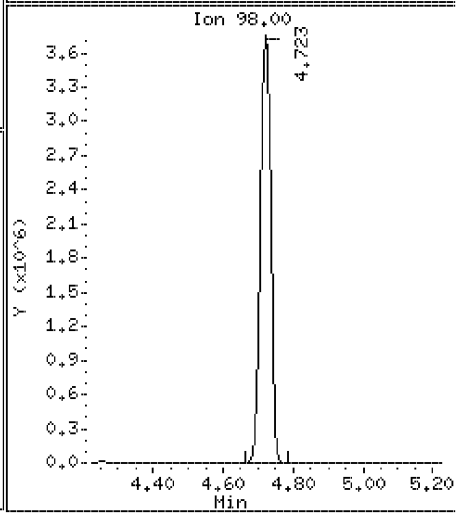


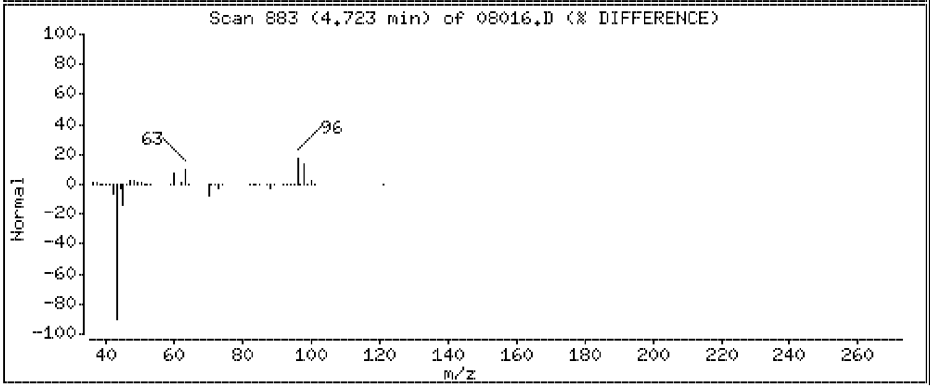












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

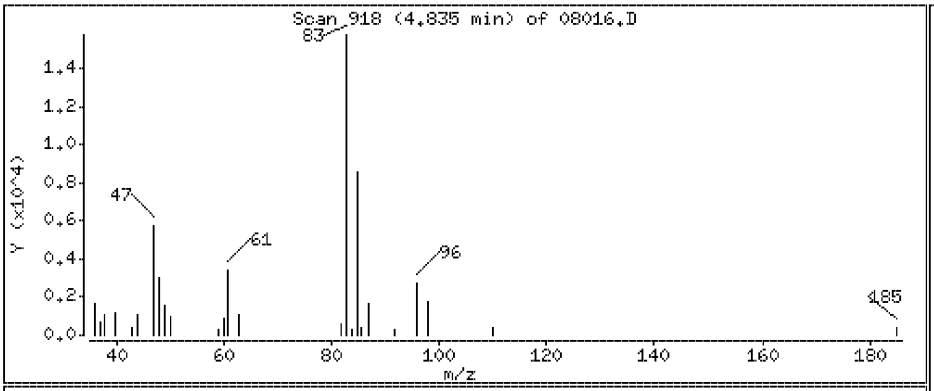
Operator: NCK

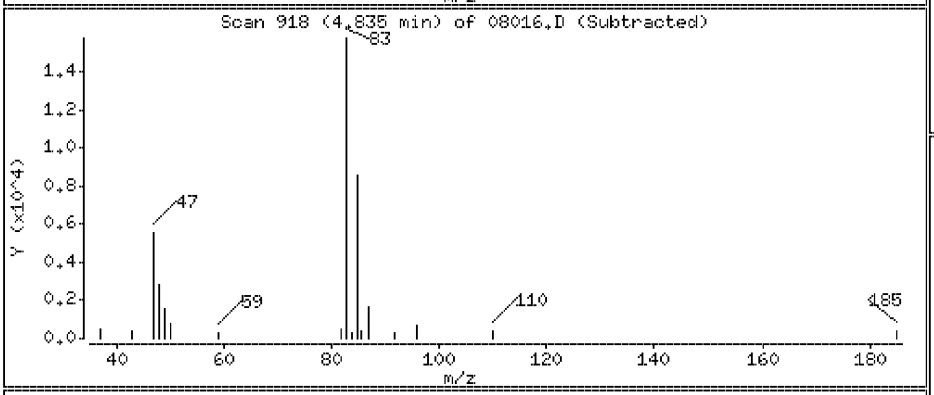
Column phase: J&W DB-5

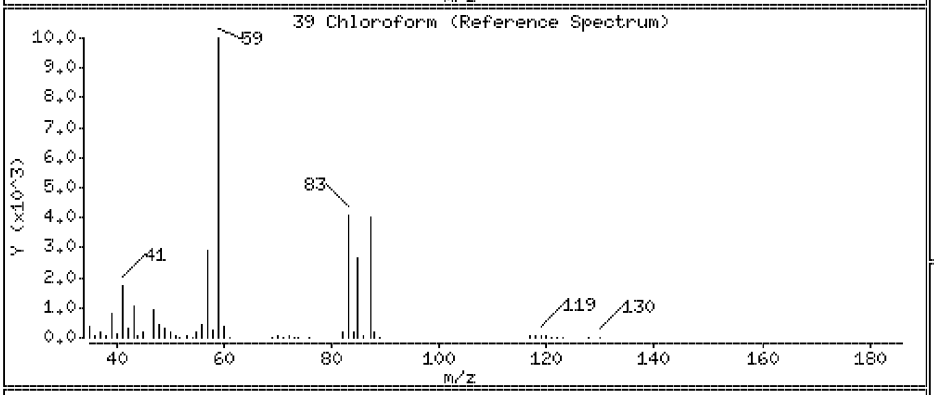
Column diameter: 0.32

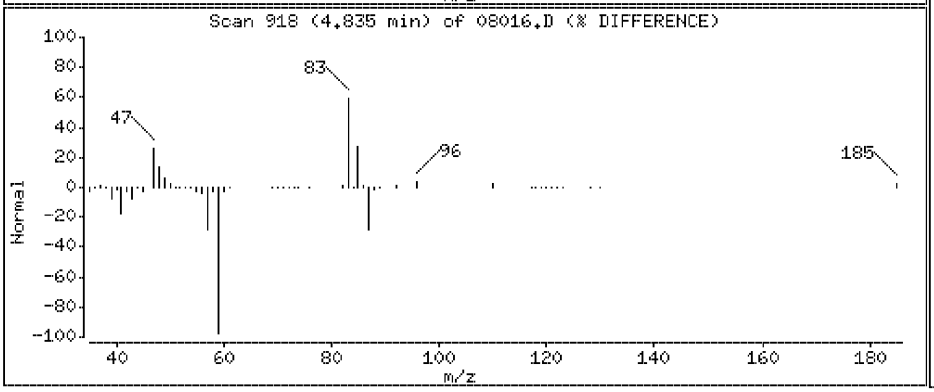
39 Chloroform

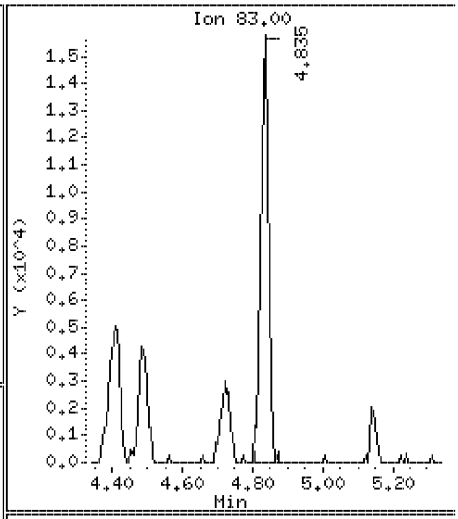
Concentration: 0.337 ppbv

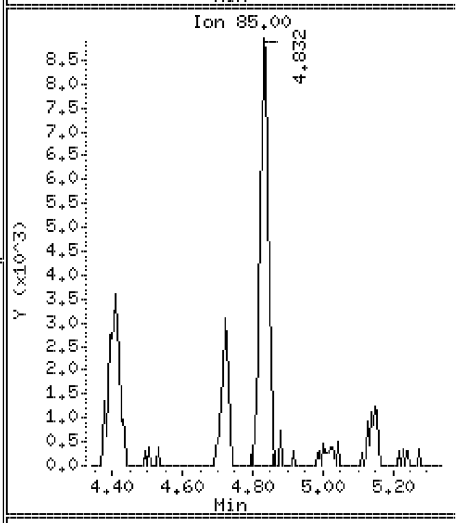


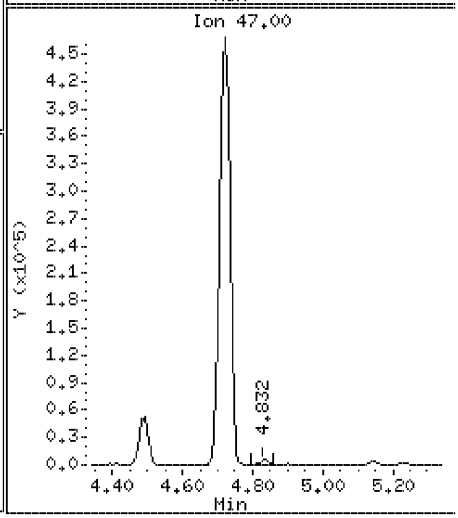












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

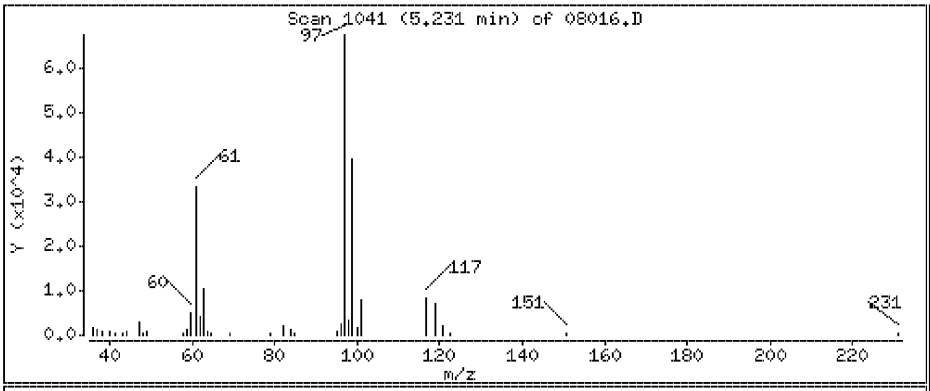
Operator: NCK

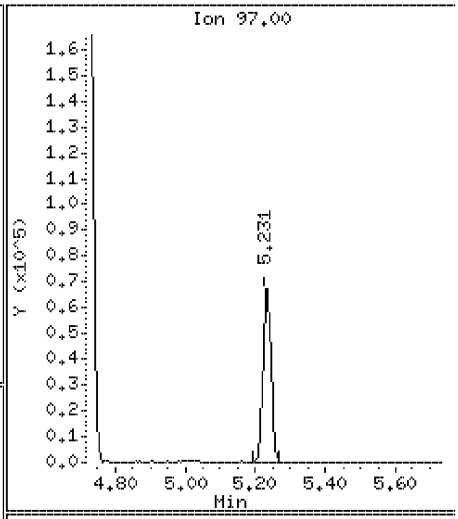
Column phase: J&W DB-5

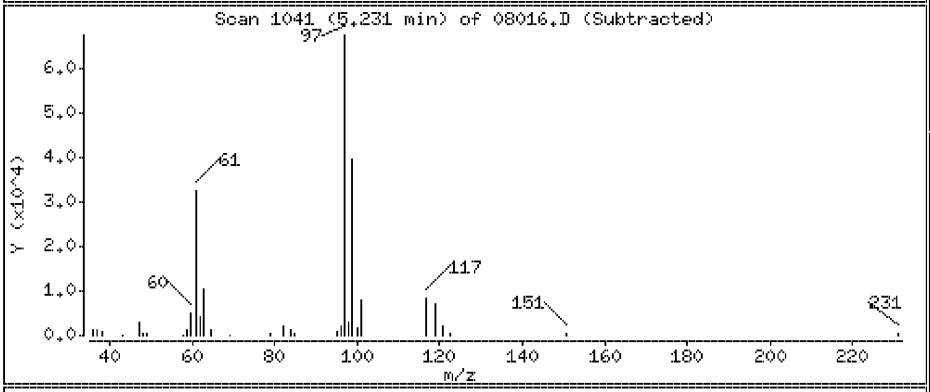
Column diameter: 0.32

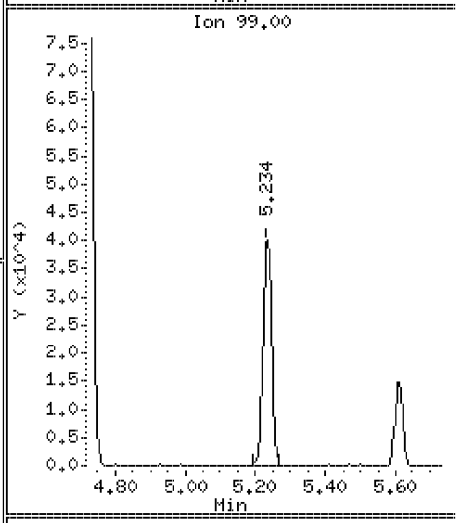
41 1,1,1-Trichloroethane

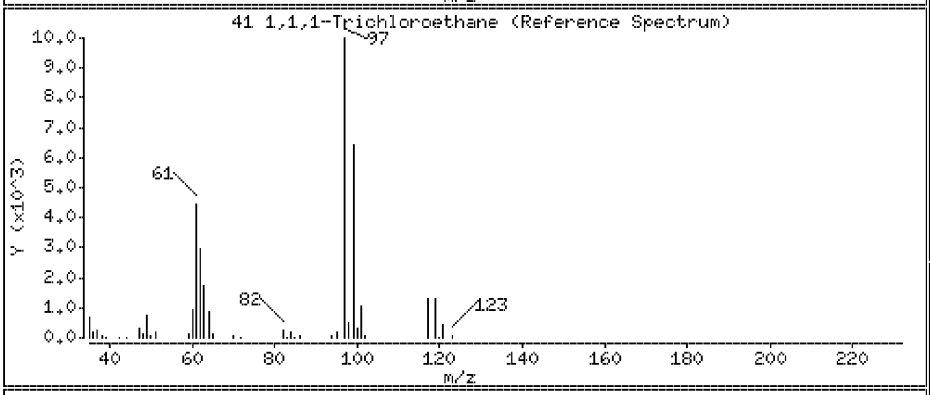
Concentration: 1.29 ppbv

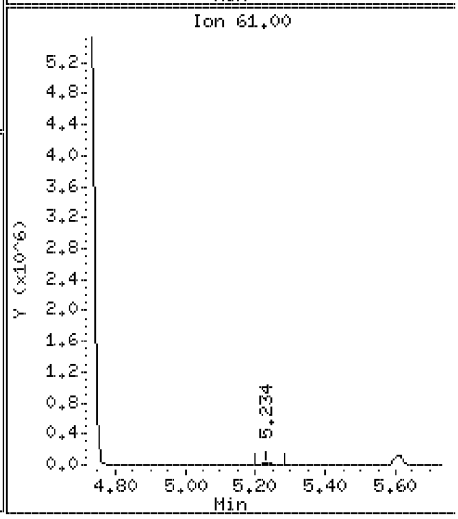


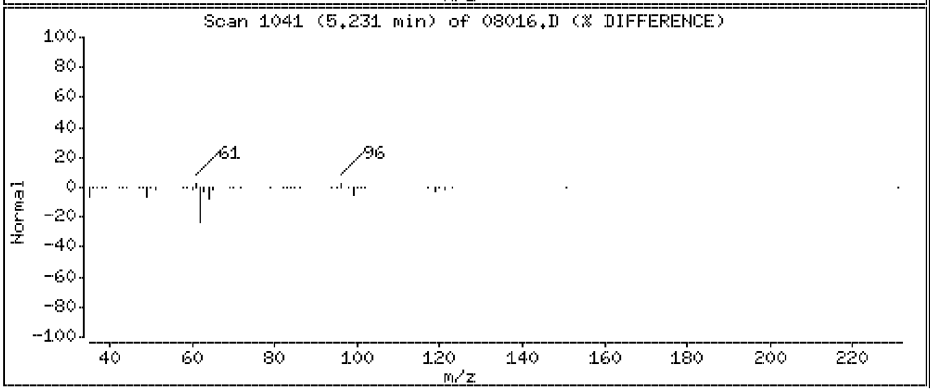












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

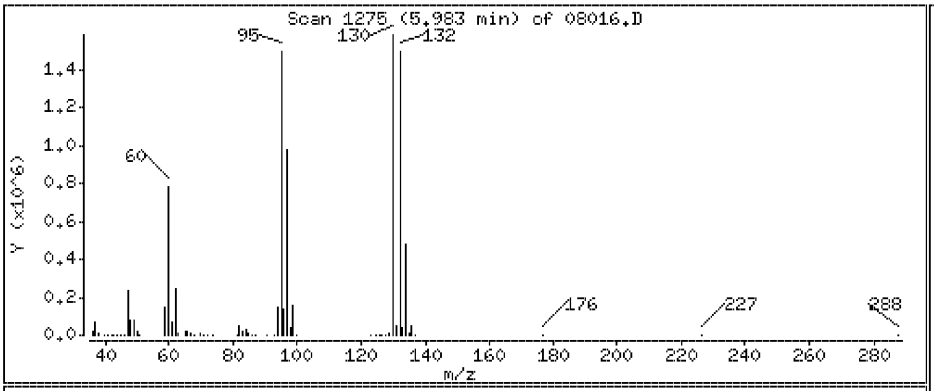
Operator: NCK

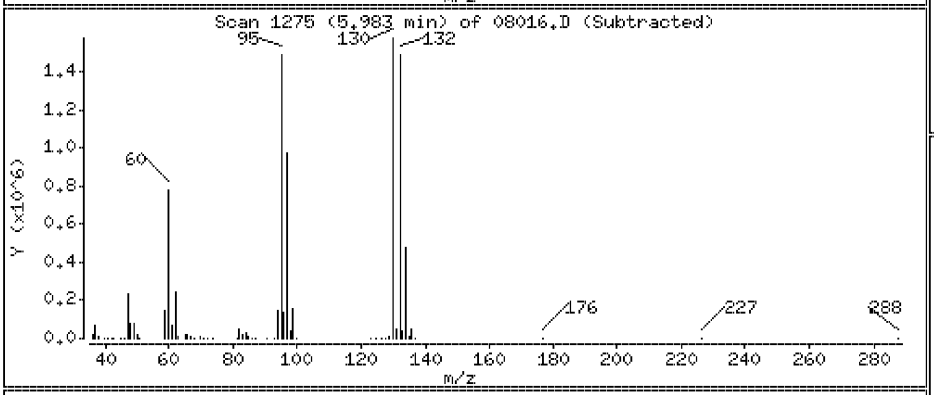
Column phase: J&W DB-5

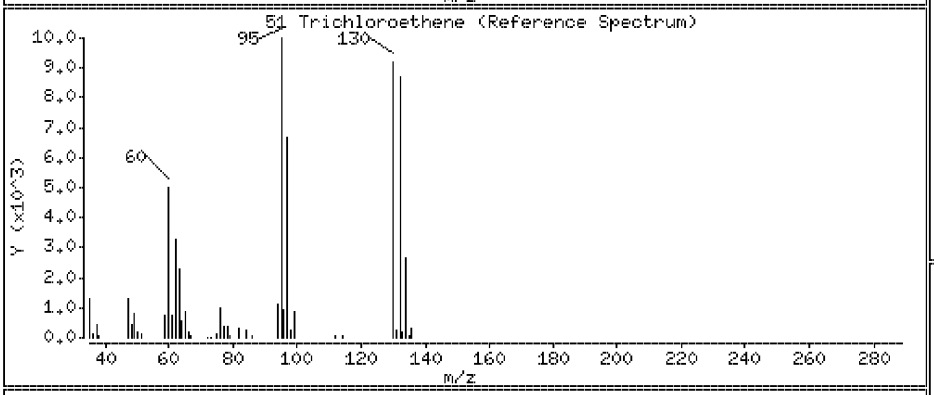
Column diameter: 0.32

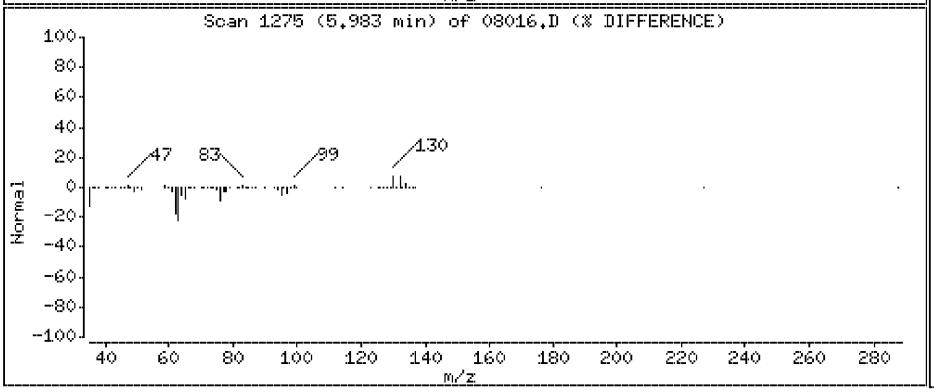
51 Trichloroethene

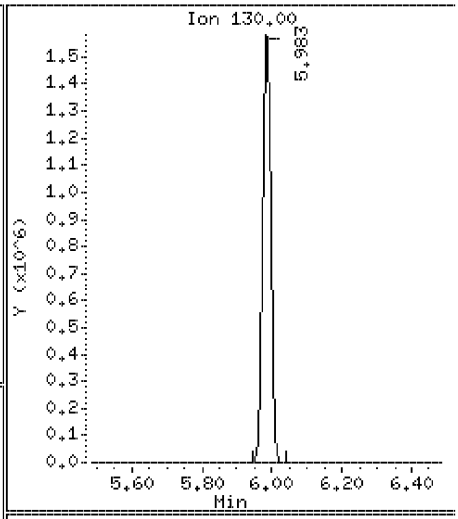
Concentration: 49.3 ppbv

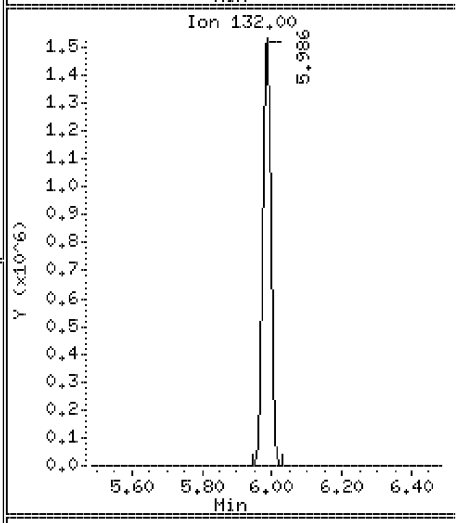


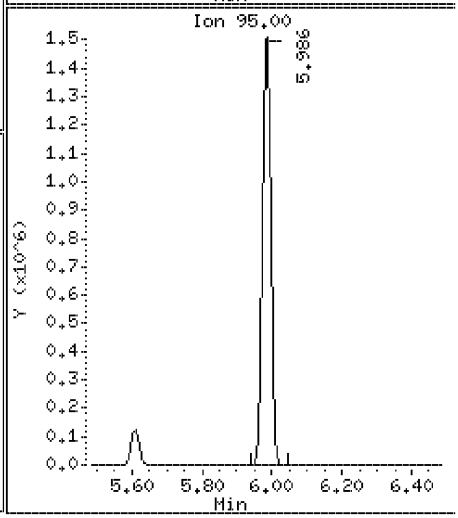












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

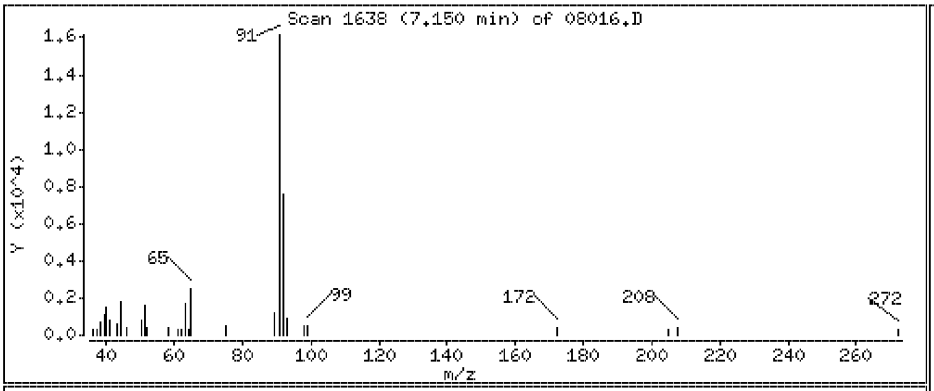
Operator: NCK

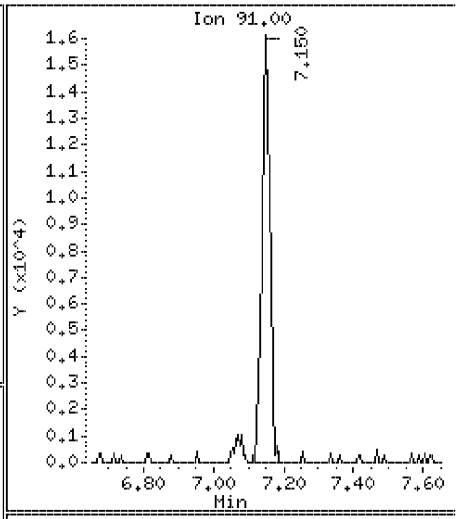
Column phase: J&W DB-5

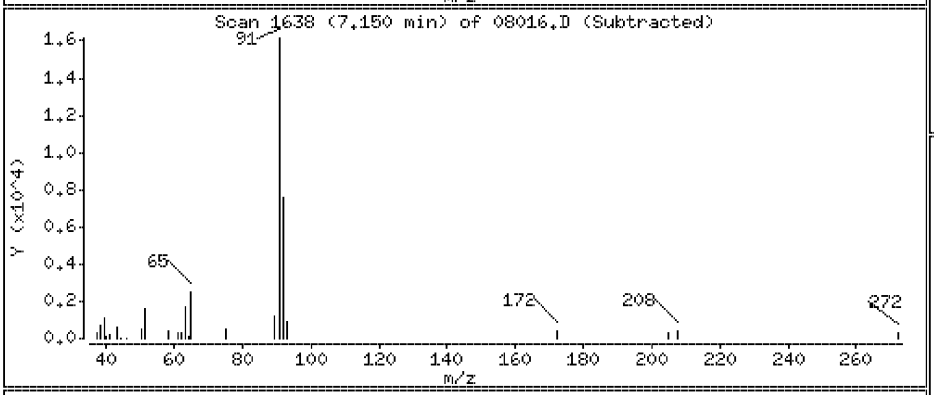
Column diameter: 0.32

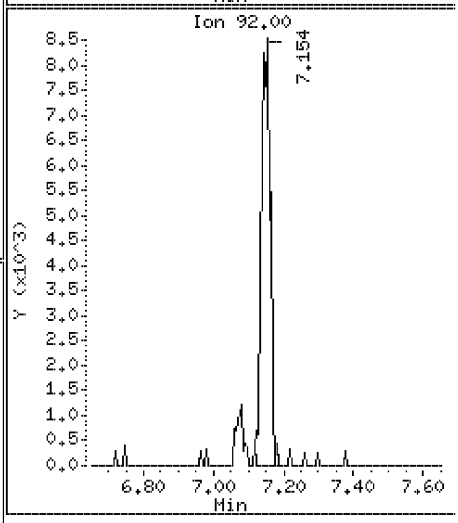
61 Toluene

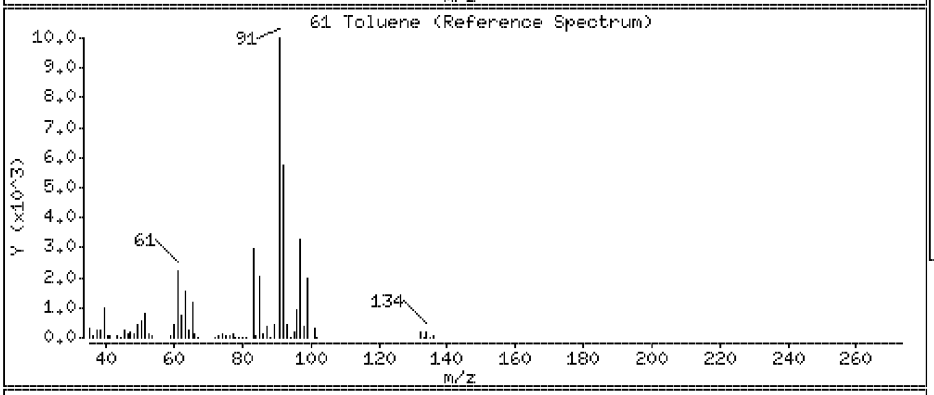
Concentration: 0.195 ppbv

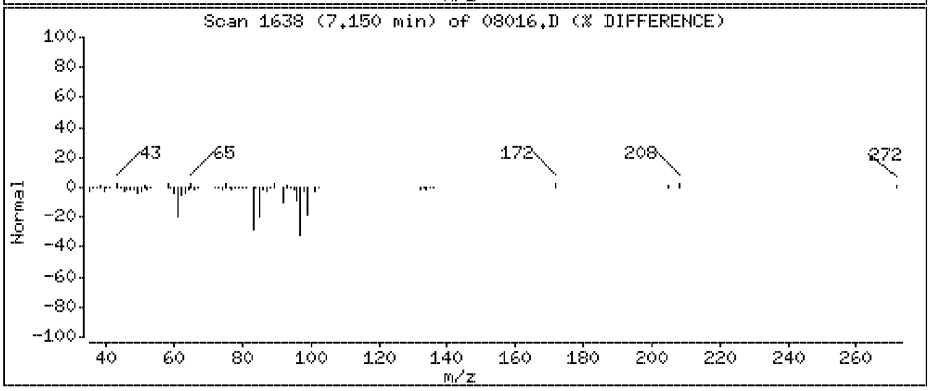












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

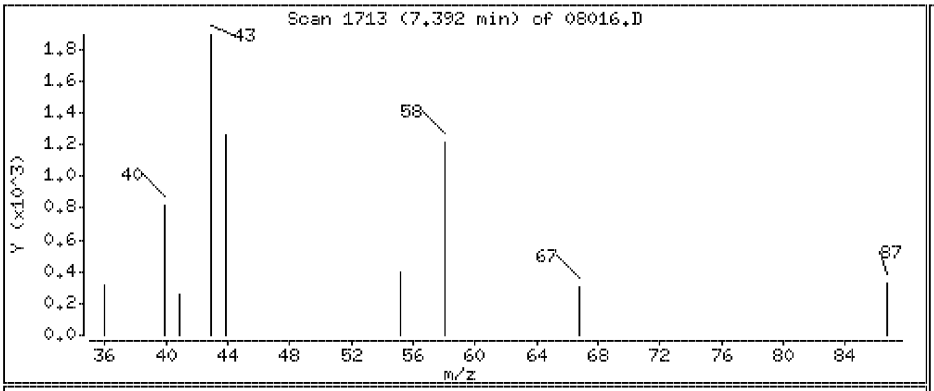
Operator: NCK

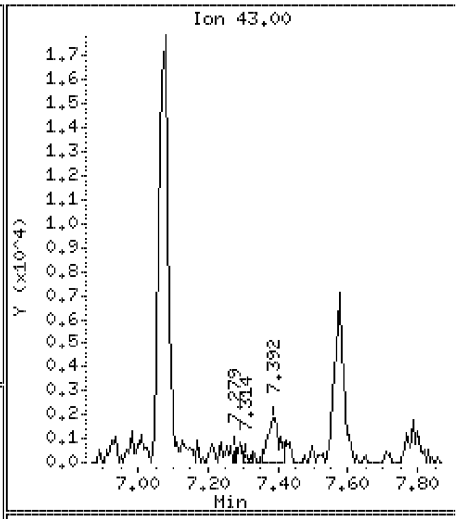
Column phase: J&W DB-5

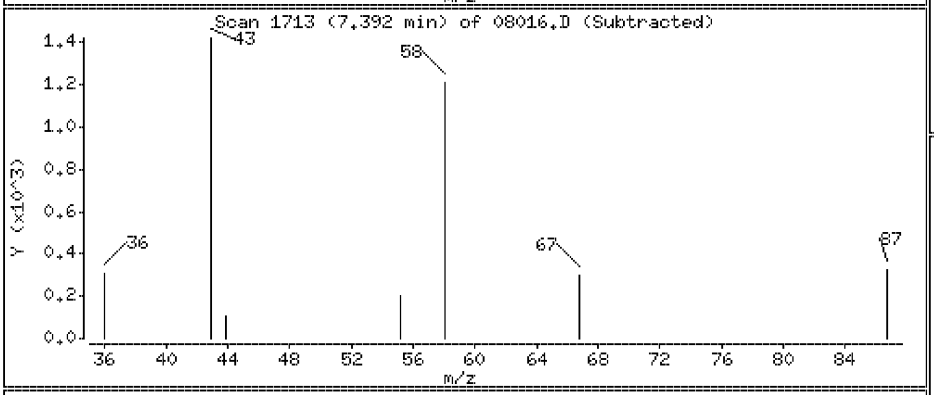
Column diameter: 0.32

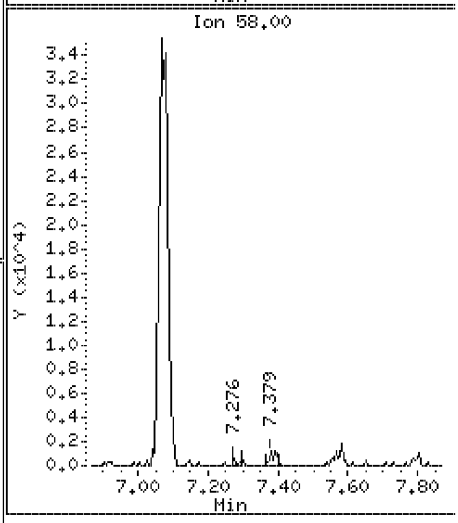
62 Methyl Butyl Ketone

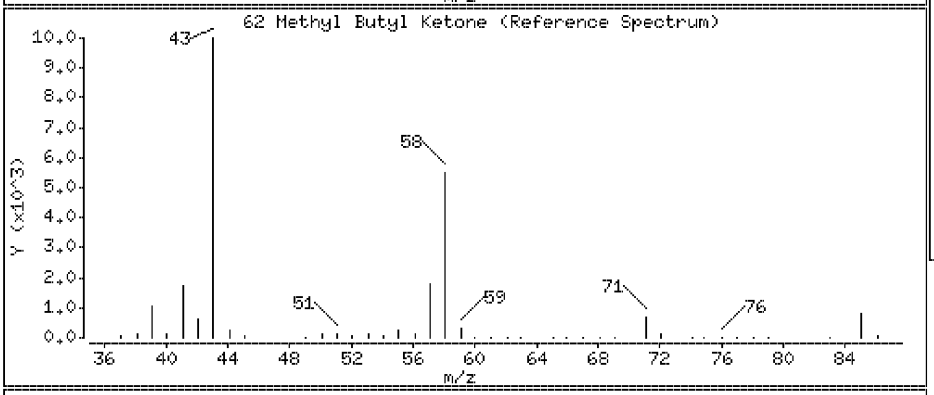
Concentration: 0.545 ppbv

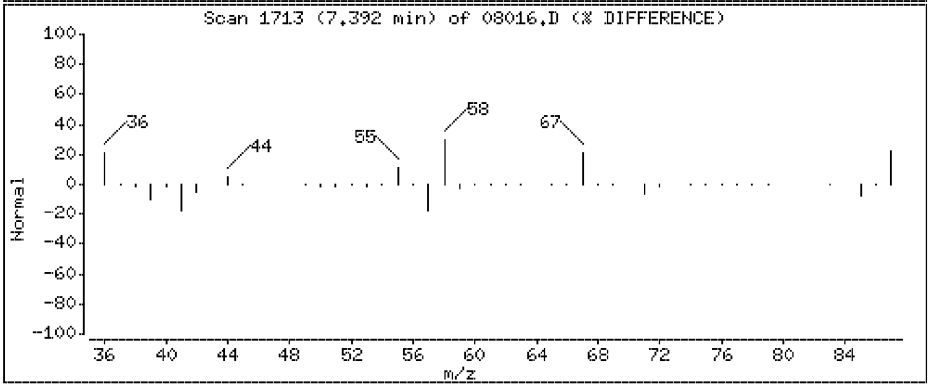












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

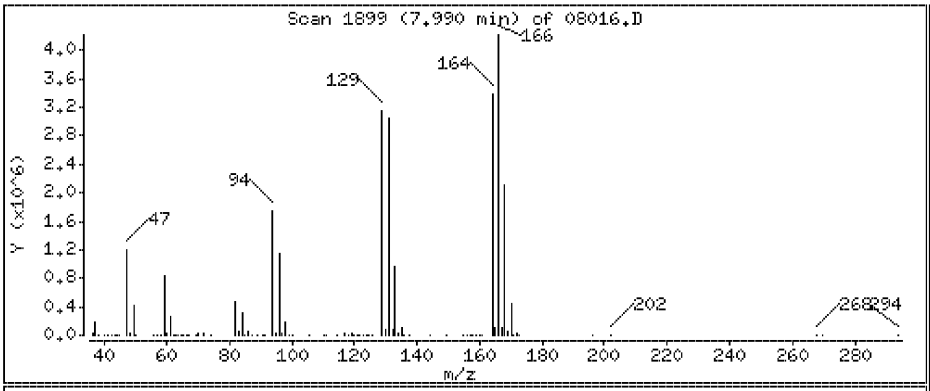
Operator: NCK

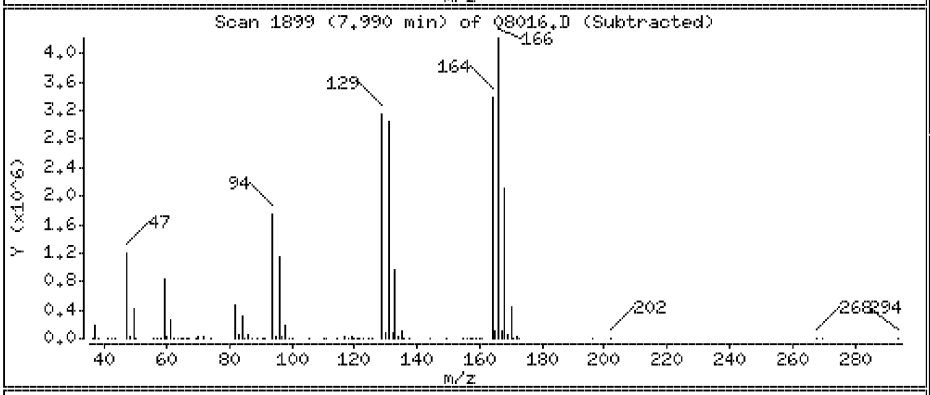
Column phase: J&W DB-5

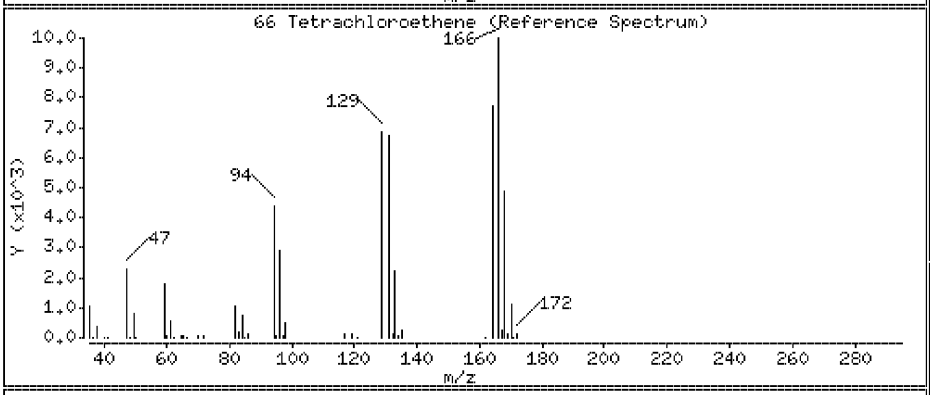
Column diameter: 0.32

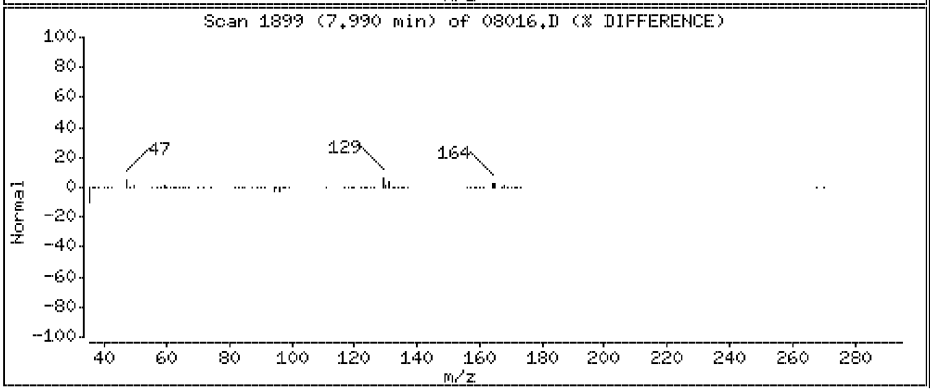
66 Tetrachloroethene

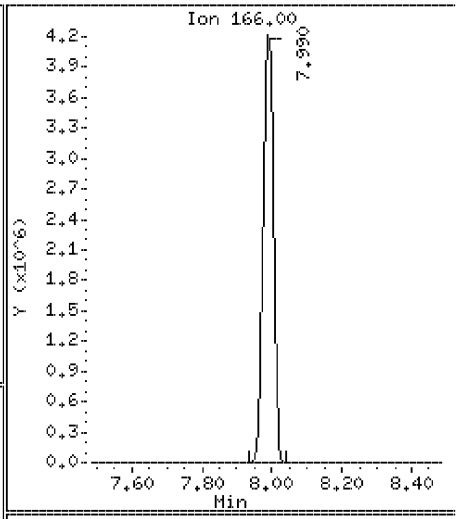
Concentration: 157 ppbv

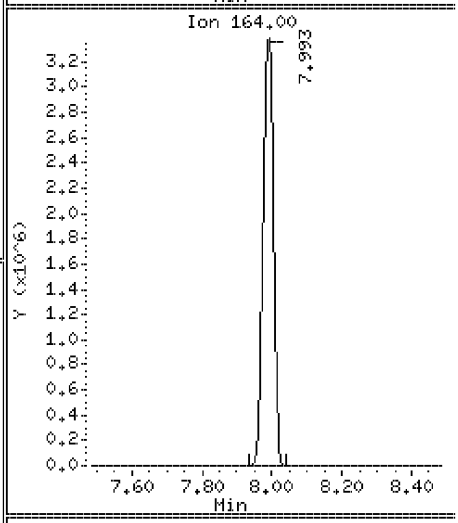


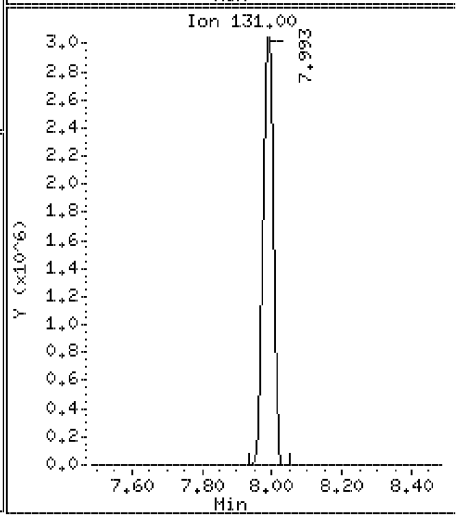












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

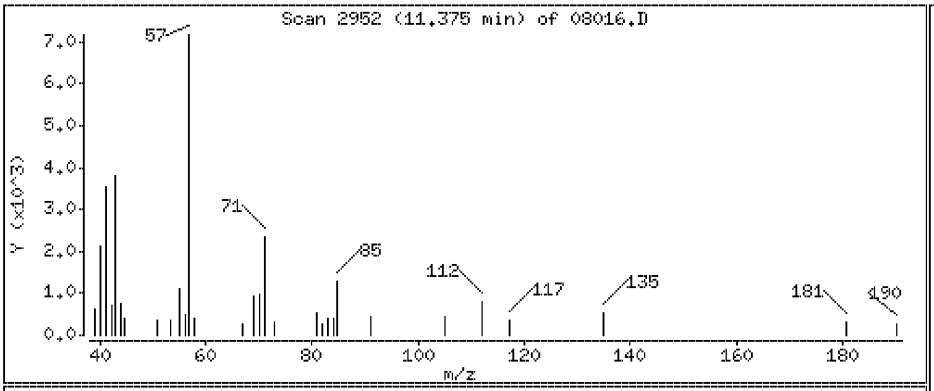
Operator: NCK

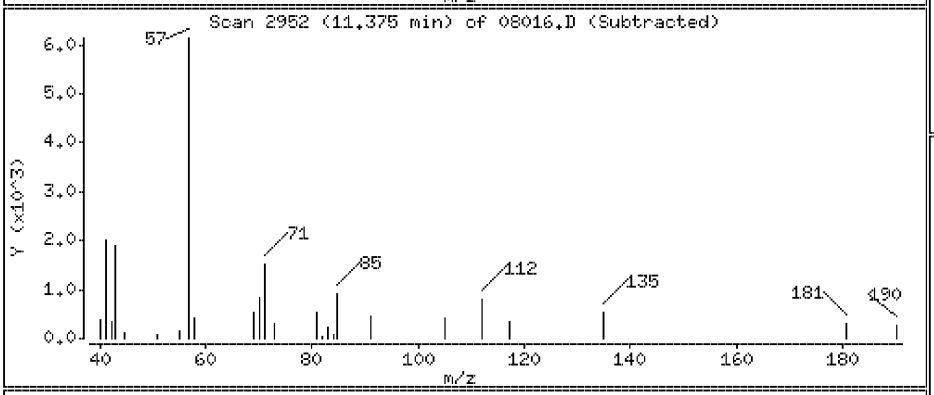
Column phase: J&W DB-5

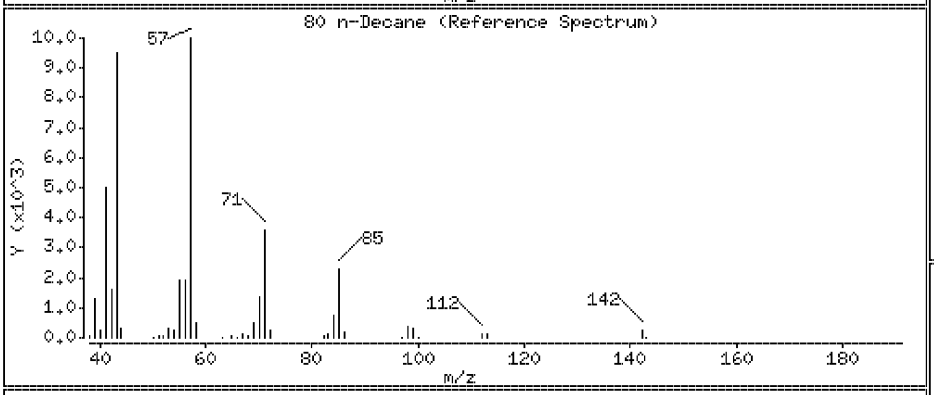
Column diameter: 0.32

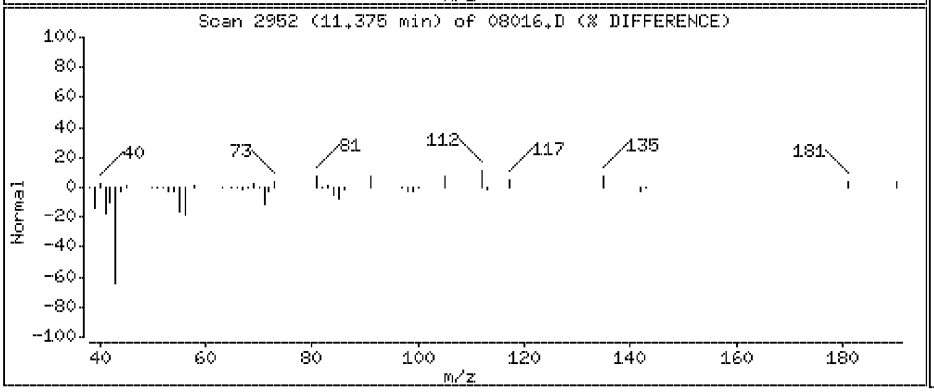
80 n-Decane

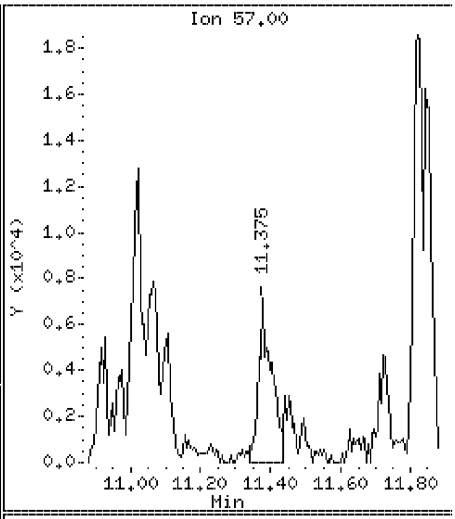
Concentration: 0.230 ppbv

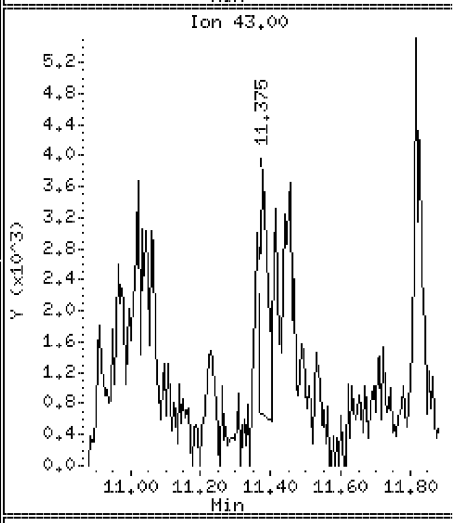


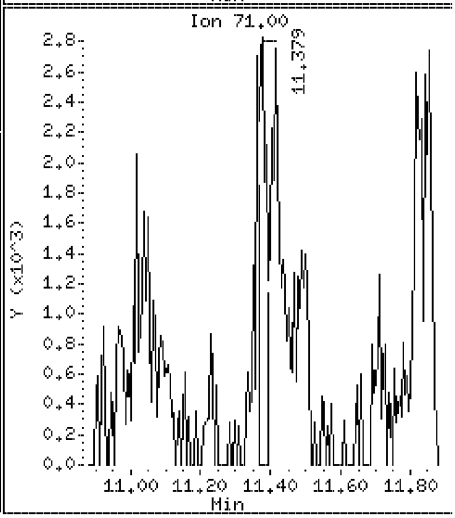












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

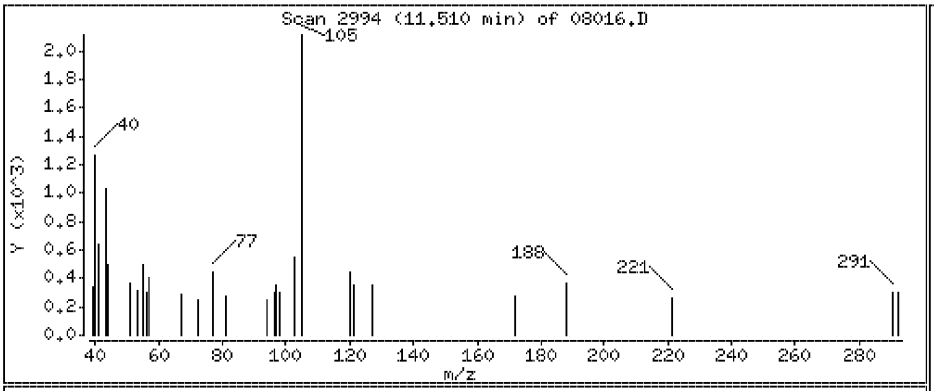
Operator: NCK

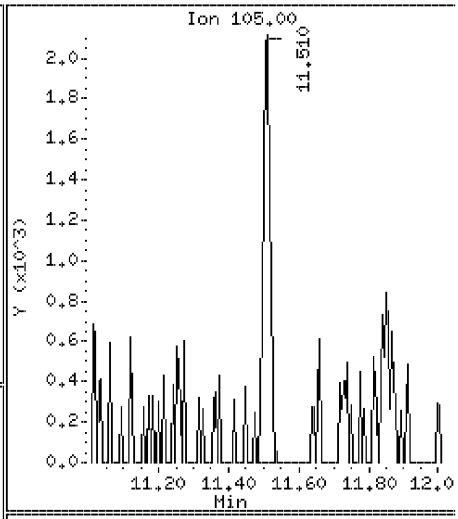
Column phase: J&W DB-5

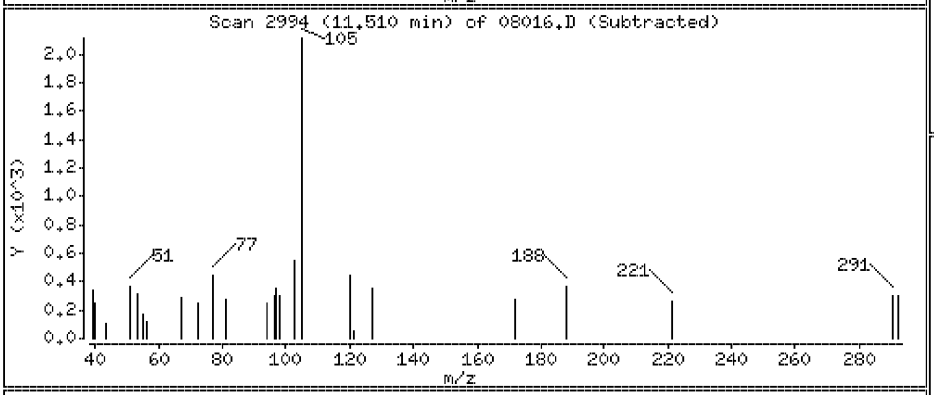
Column diameter: 0.32

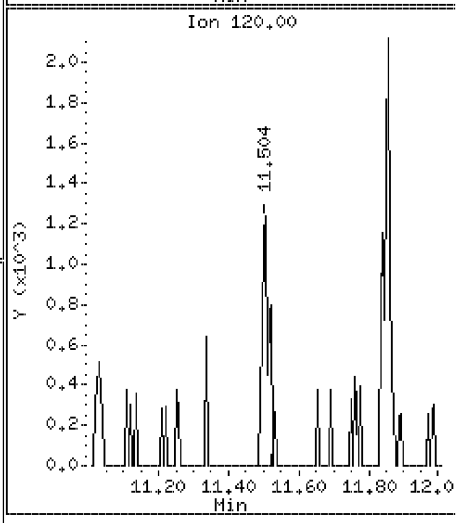
82 1,2,4-Trimethylbenzene

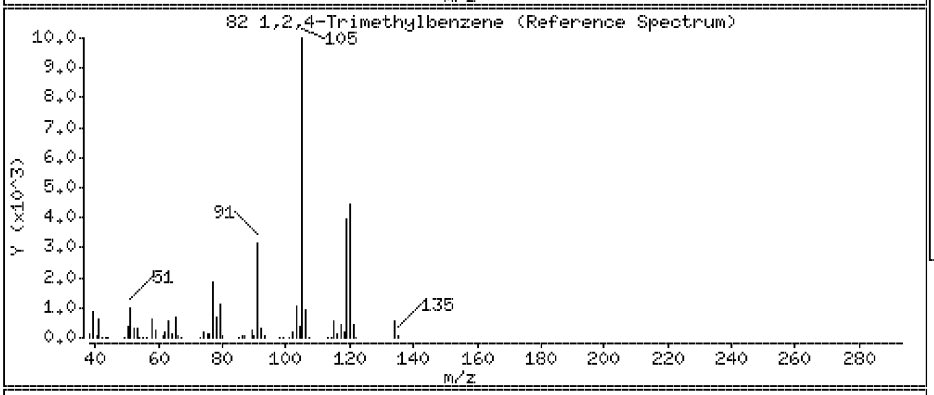
Concentration: 0.249 ppbv

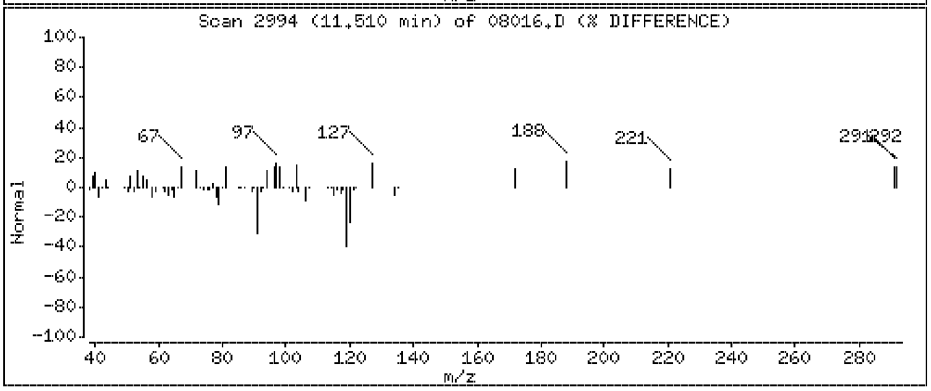












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08016.D

Date : 21-MAR-2017 16:16

Client ID:

Instrument: 10airB.i

Sample Info:

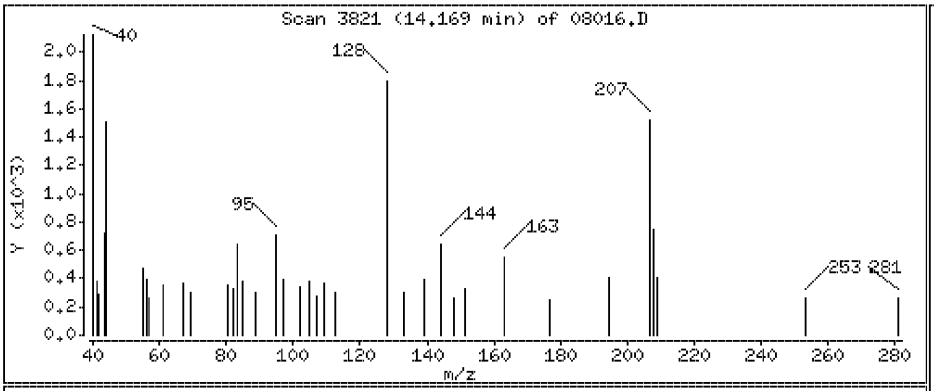
Operator: NCK

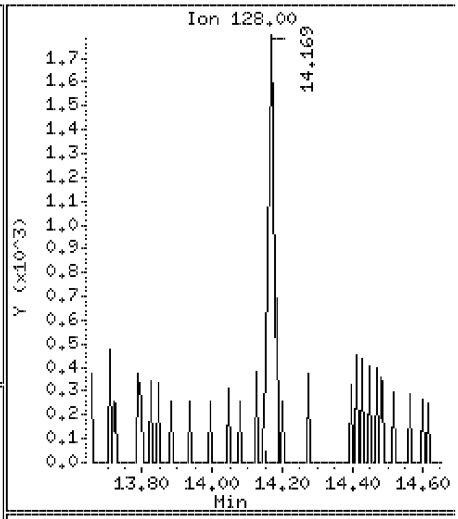
Column phase: J&W DB-5

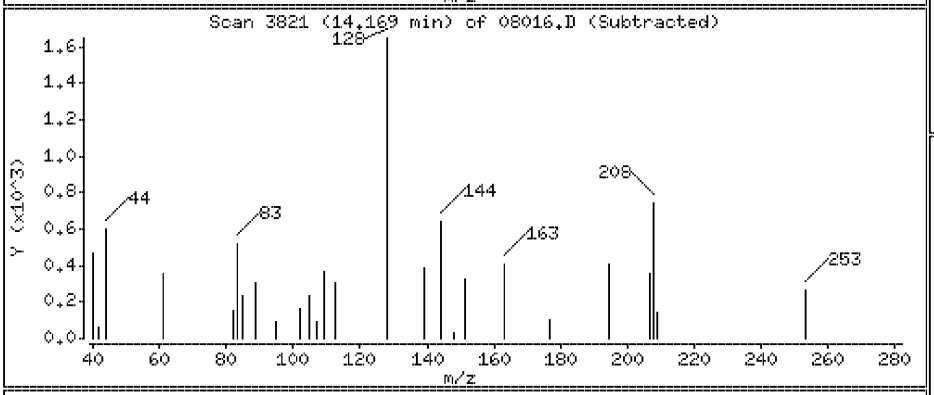
Column diameter: 0.32

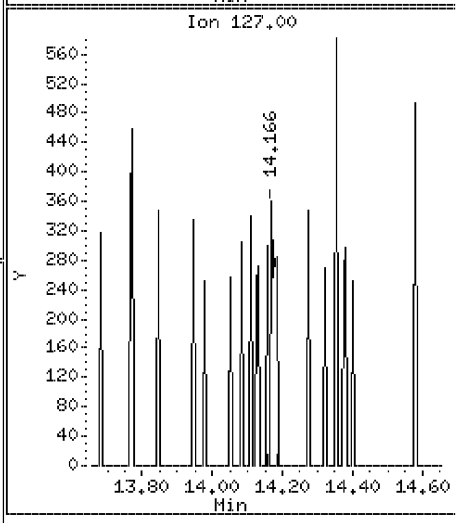
94 Naphthalene

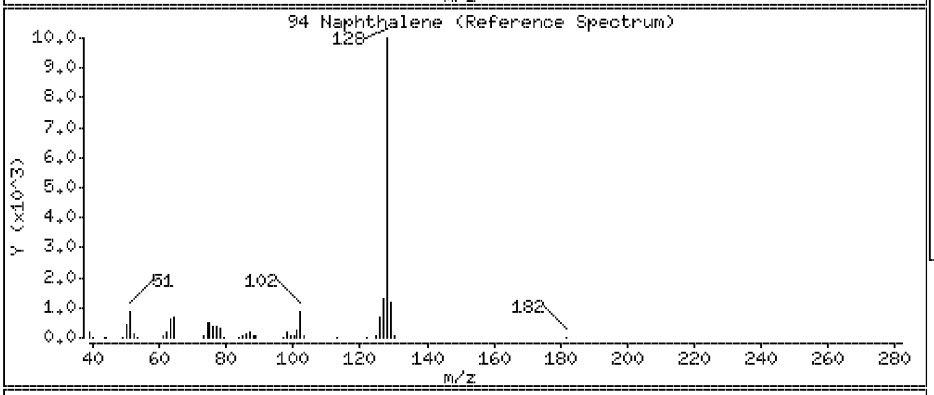
Concentration: 0.769 ppbv

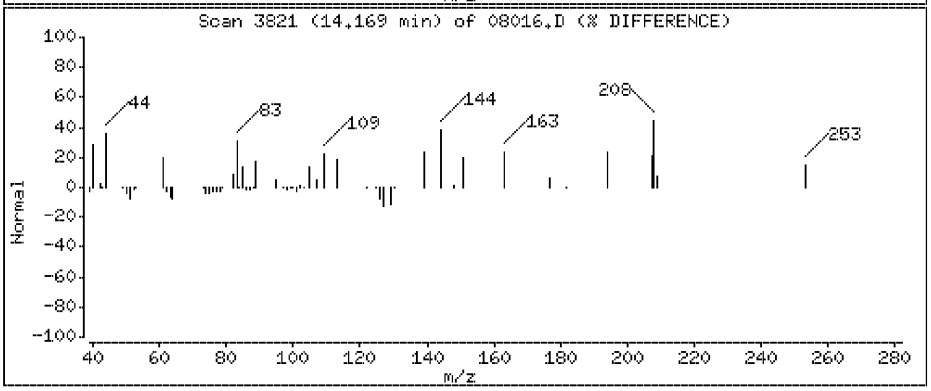












Data File: \\192.168.10.12\chem\10airB.i\032117.b/08016.D
Injection Date: 21-MAR-2017 16:16
Instrument: 10airB.i
Lab Sample ID: 10381035006
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08142.D
Report Date: 23-Mar-2017 14:22

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032217.b\08142.D
Lab Smp Id: 10381035006
Inj Date : 23-MAR-2017 06:38
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Meth Date : 23-Mar-2017 13:56 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 42
Dil Factor: 70.00000
Integrator: HP RTE Compound Sublist: CLmini.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	70.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	8 Vinyl chloride	62	3.237	3.243	(0.578)	3333	0.05189	3.63
	20 1,1-Dichloroethene	61	3.906	3.915	(0.697)	4846	0.05716	4.00
	28 trans-1,2-dichloroethene	96	Compound Not Detected.					
$	32 Hexane-d14(S)	66	4.488	4.494	(0.801)	1870821	9.42037	9.42
	37 cis-1,2-Dichloroethene	96	4.703	4.729	(0.839)	569824	11.2703	789(Q)
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	5794164	10.0000	
	51 Trichloroethene	130	5.979	5.989	(1.067)	70597	0.90477	63.3
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5058390	9.48043	9.48
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	328714	3.98963	279
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	3632200	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.372)	1428258	8.14850	8.15

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08142.D
Report Date: 23-Mar-2017 14:22

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08142.D
Lab Smp Id: 10381035006
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 22-MAR-2017
Calibration Time: 09:05
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

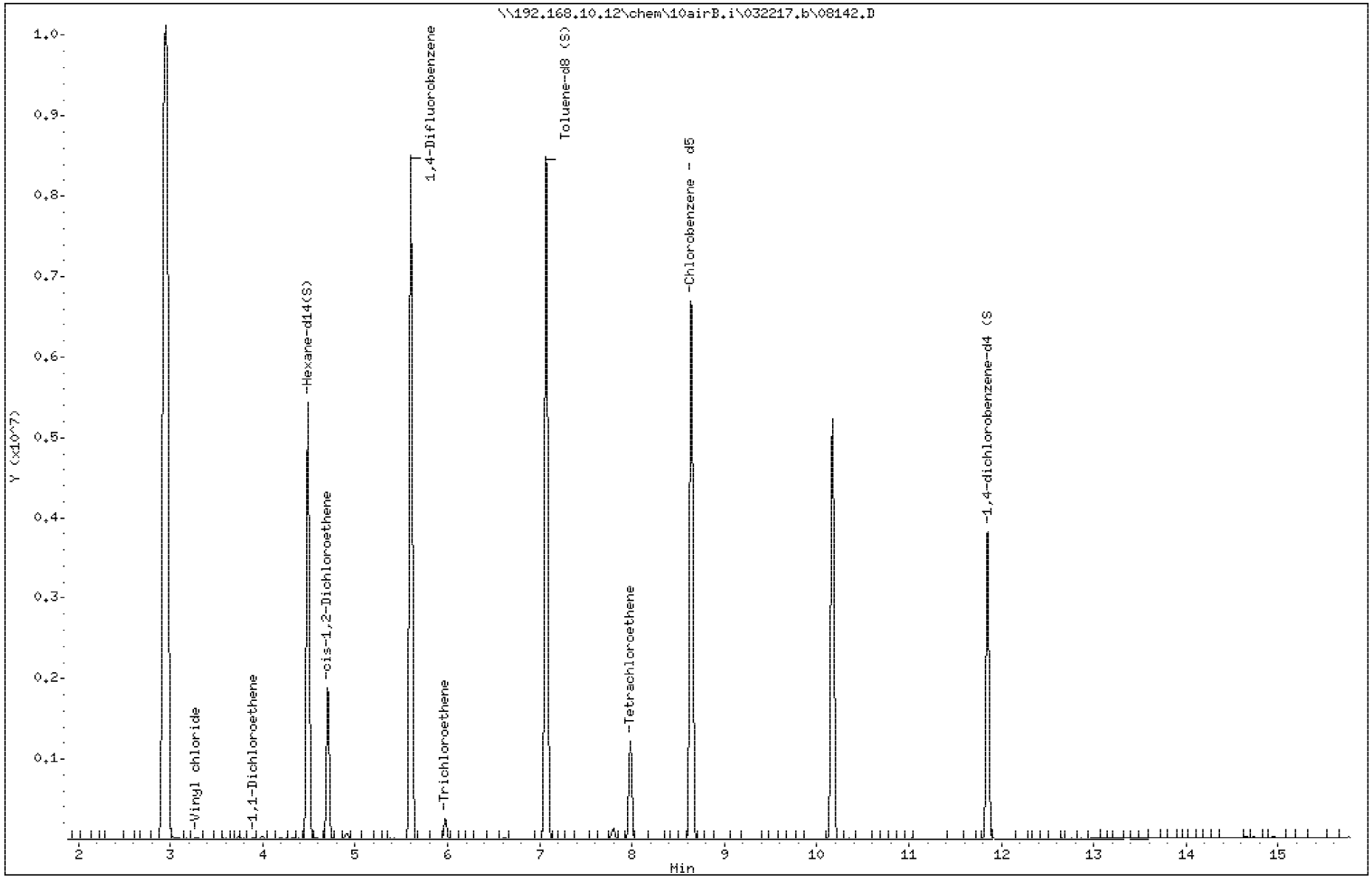
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	5794164	-24.17
67 Chlorobenzene - d	5205948	3123569	7288327	3632200	-30.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08142.D
Date : 23-MAR-2017 06:38
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08142.D

Date : 23-MAR-2017 06:38

Client ID:

Instrument: 10airB.i

Sample Info:

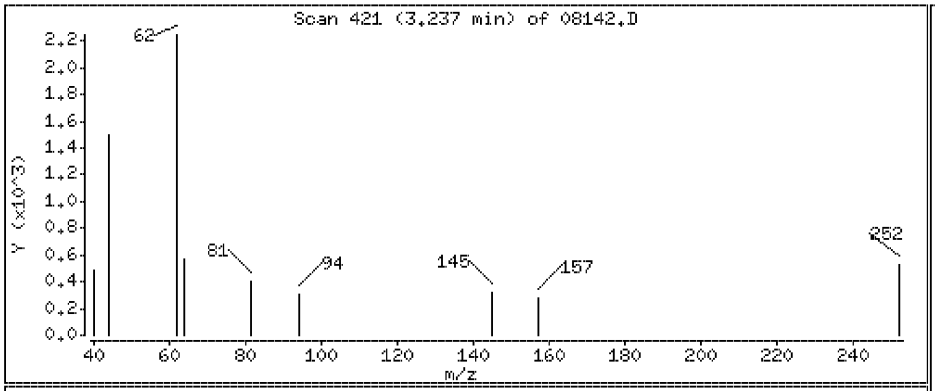
Operator: NCK

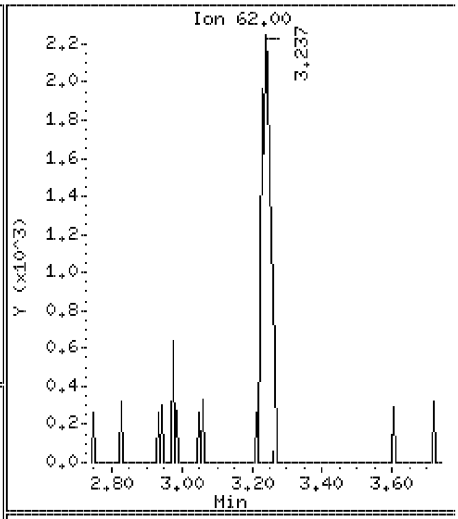
Column phase: J&W DB-5

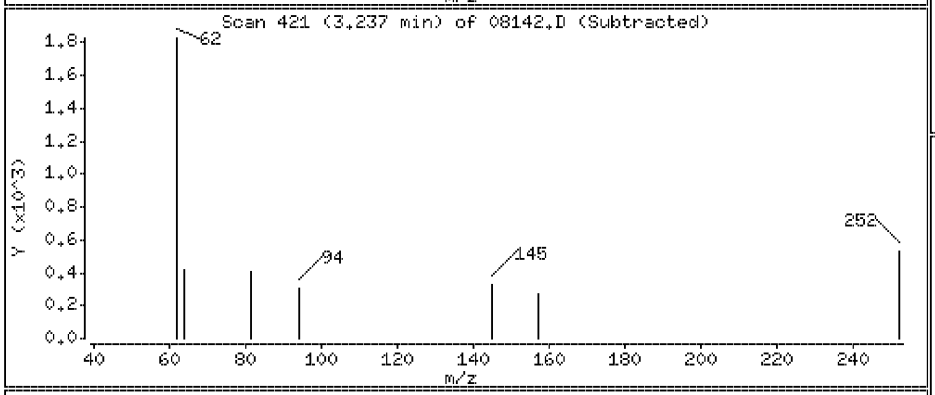
Column diameter: 0.32

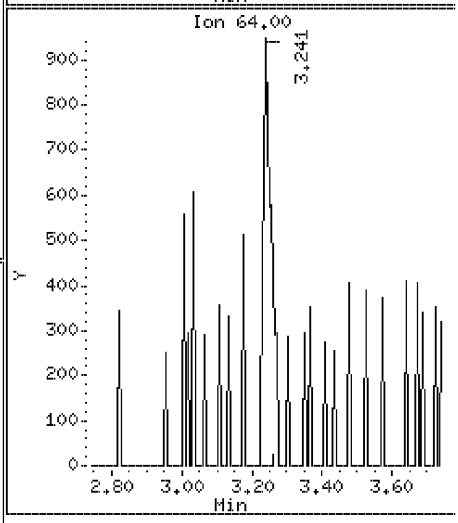
8 Vinyl chloride

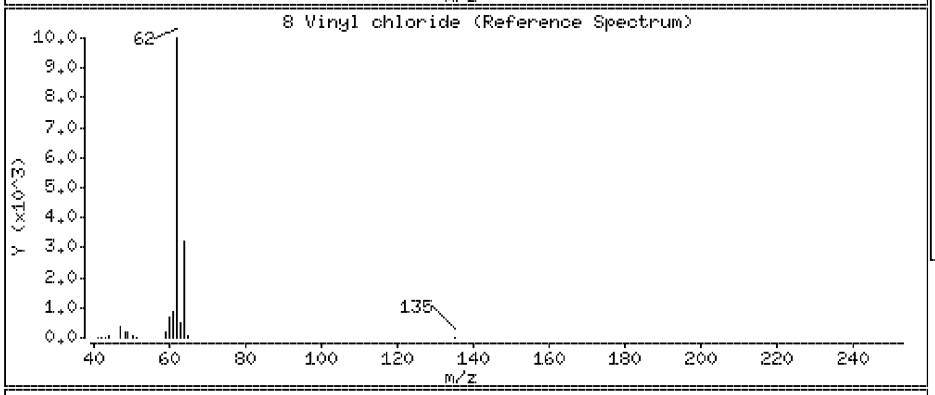
Concentration: 3.63 ppbv

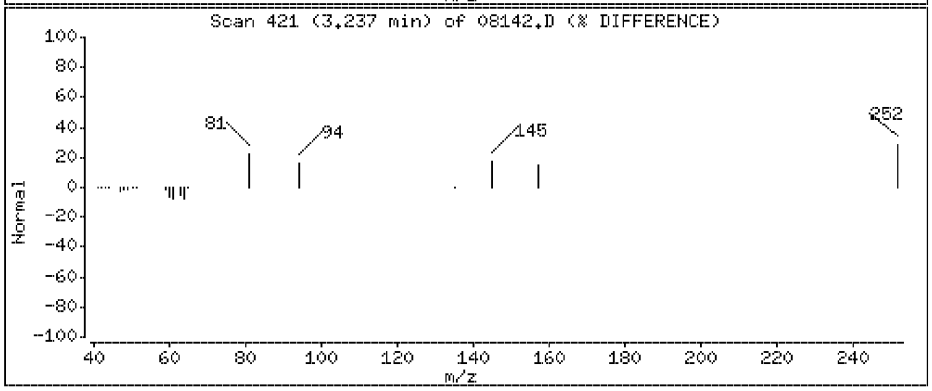












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08142.D

Date : 23-MAR-2017 06:38

Client ID:

Instrument: 10airB.i

Sample Info:

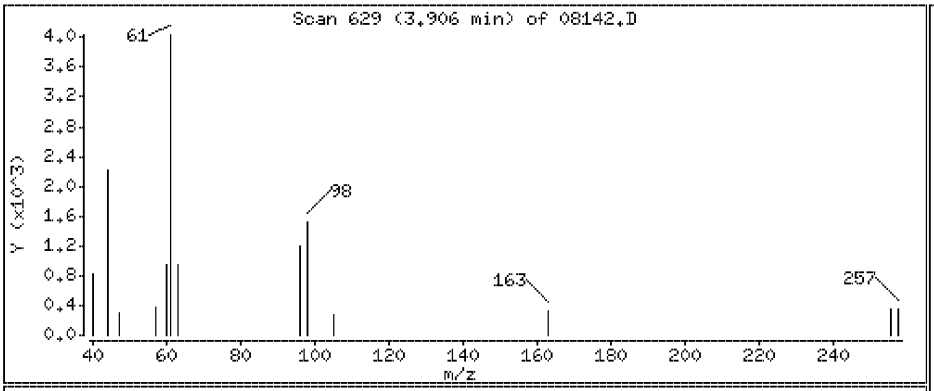
Operator: NCK

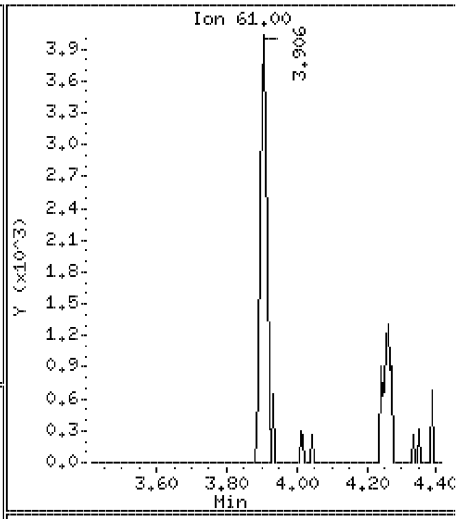
Column phase: J&W DB-5

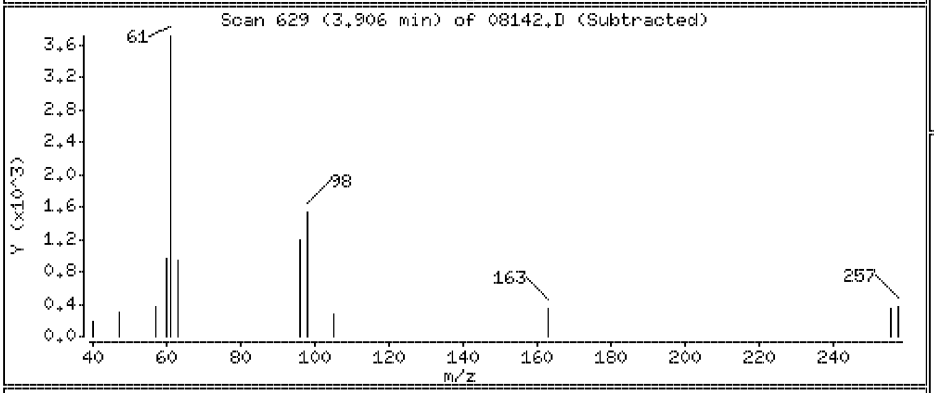
Column diameter: 0.32

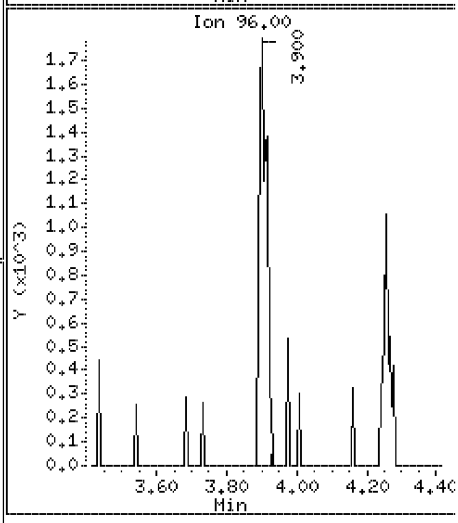
20 1,1-Dichloroethene

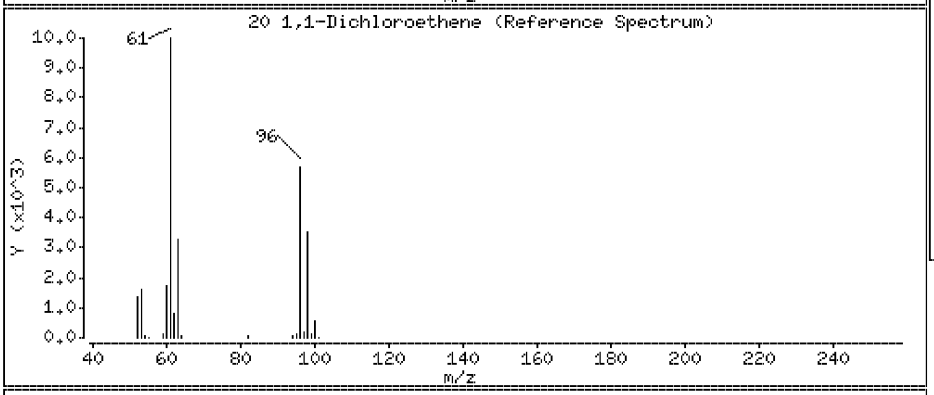
Concentration: 4.00 ppbv

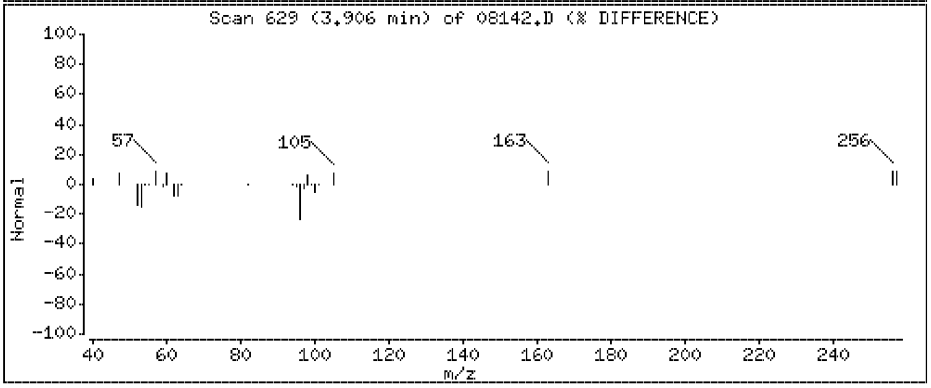












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08142.D

Date : 23-MAR-2017 06:38

Client ID:

Instrument: 10airB.i

Sample Info:

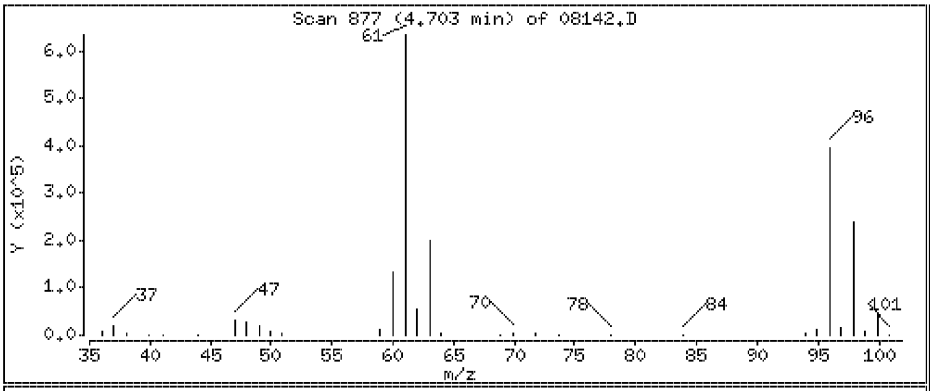
Operator: NCK

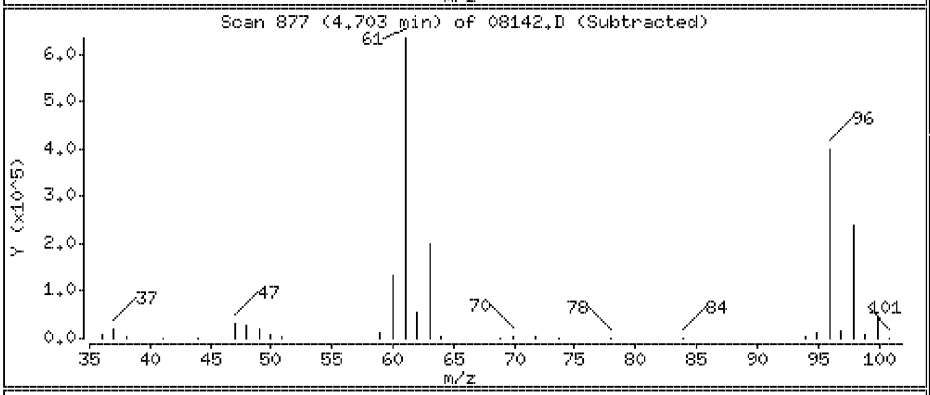
Column phase: J&W DB-5

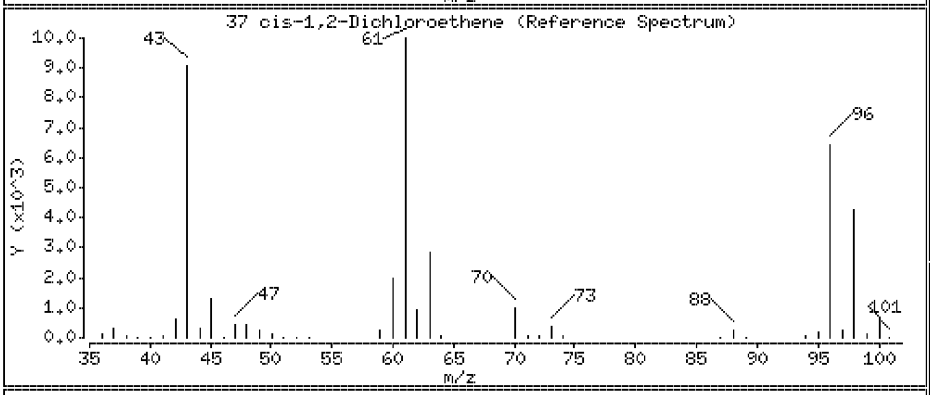
Column diameter: 0.32

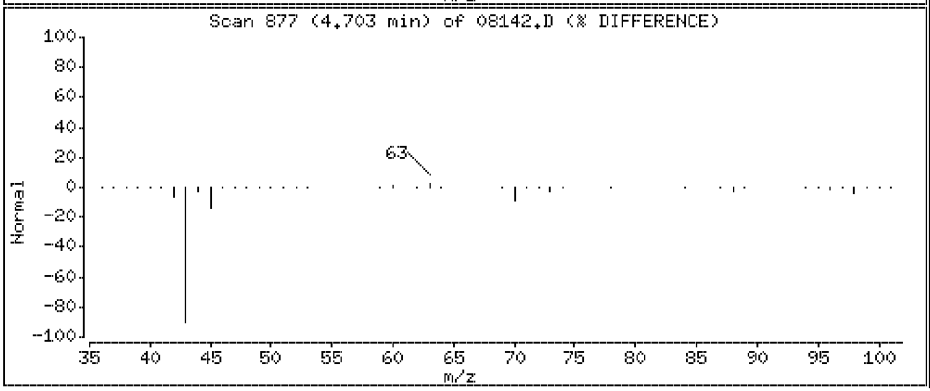
37 cis-1,2-Dichloroethene

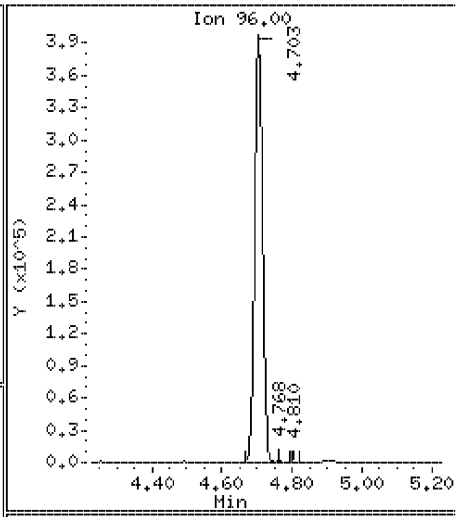
Concentration: 789 ppbv

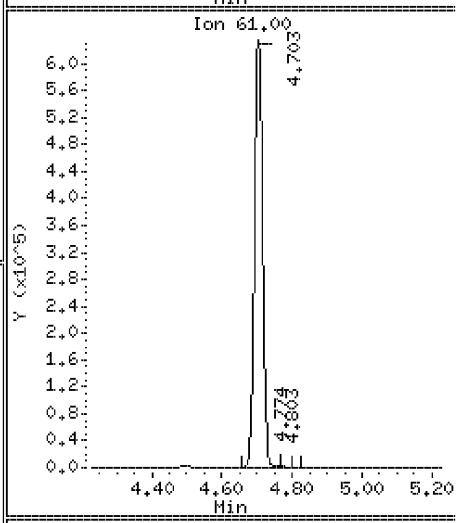


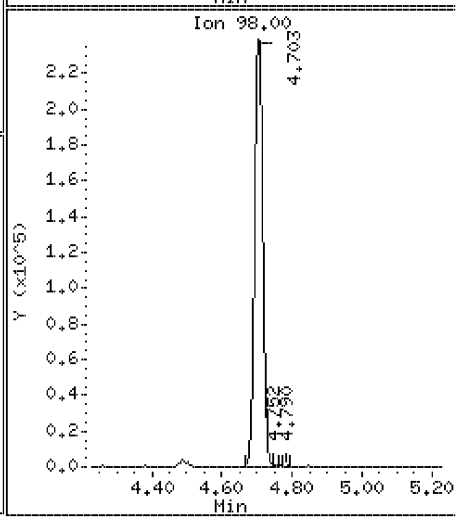












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08142.D

Date : 23-MAR-2017 06:38

Client ID:

Instrument: 10airB.i

Sample Info:

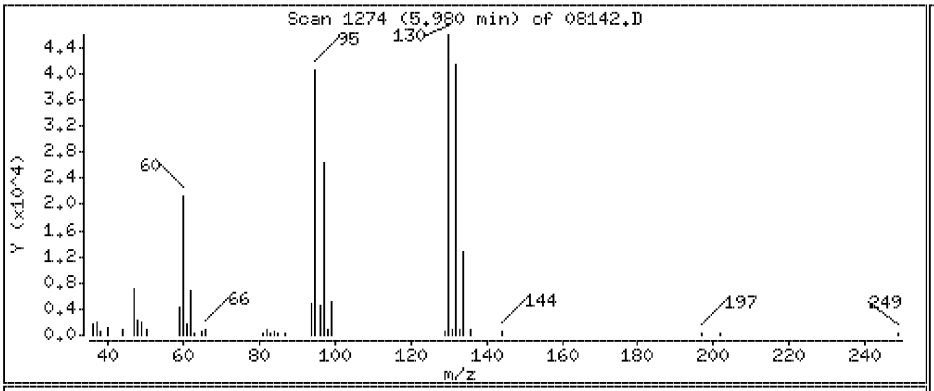
Operator: NCK

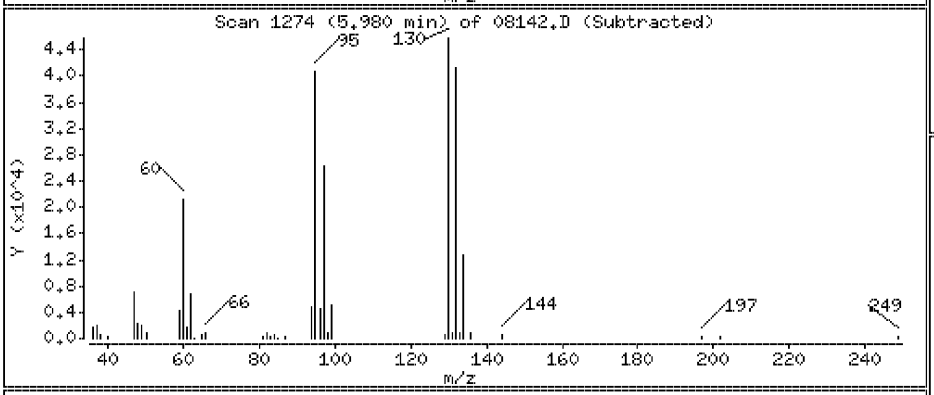
Column phase: J&W DB-5

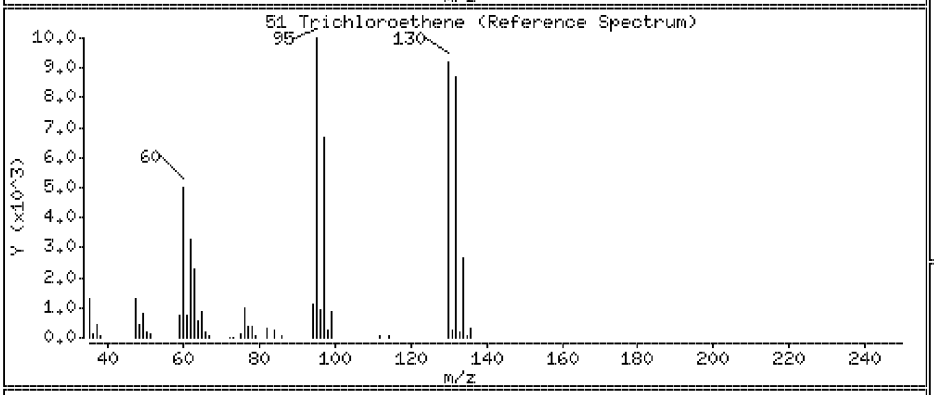
Column diameter: 0.32

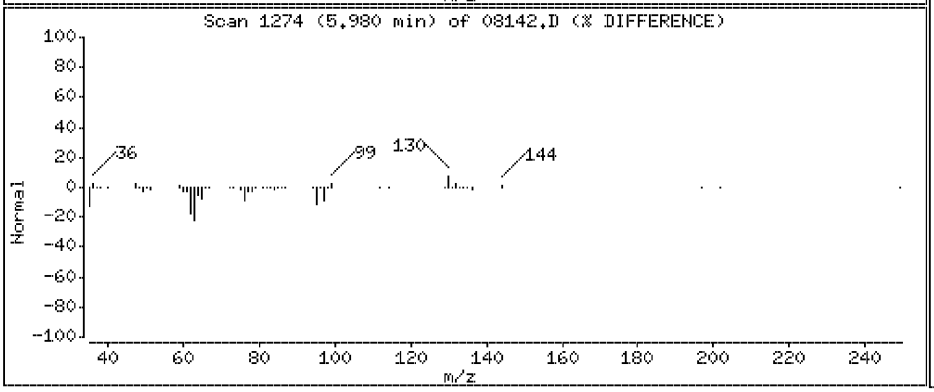
51 Trichloroethene

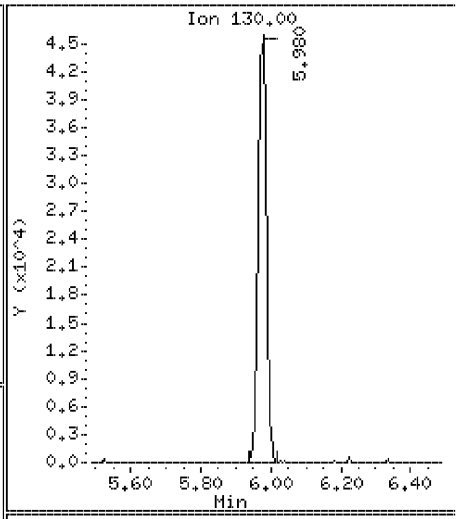
Concentration: 63.3 ppbv

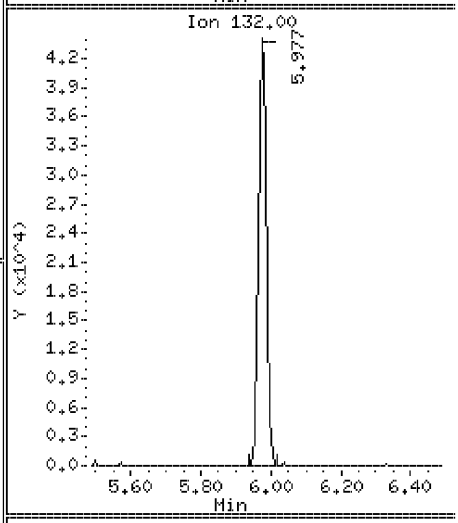


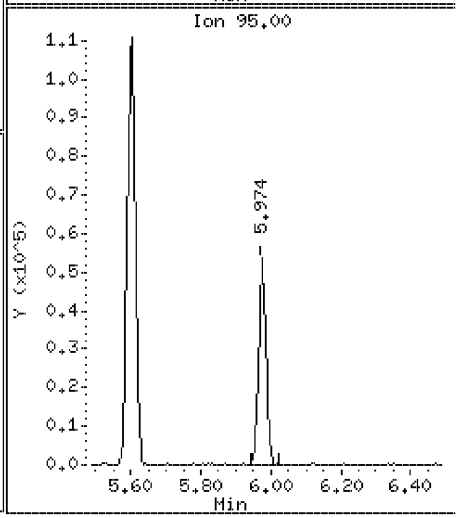












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08142.D

Date : 23-MAR-2017 06:38

Client ID:

Instrument: 10airB.i

Sample Info:

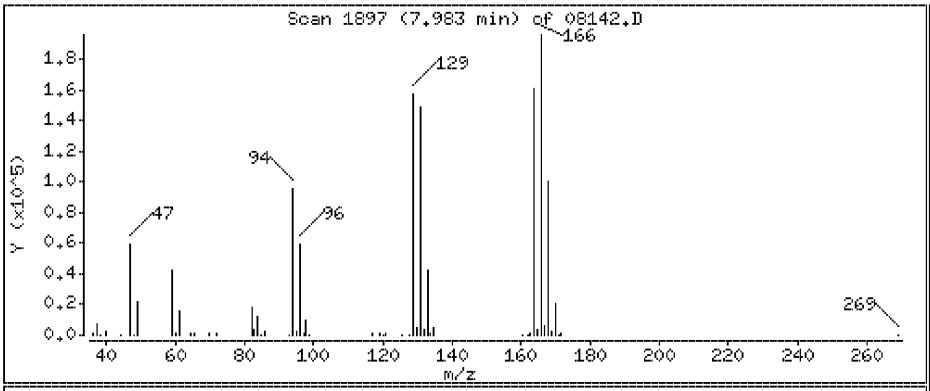
Operator: NCK

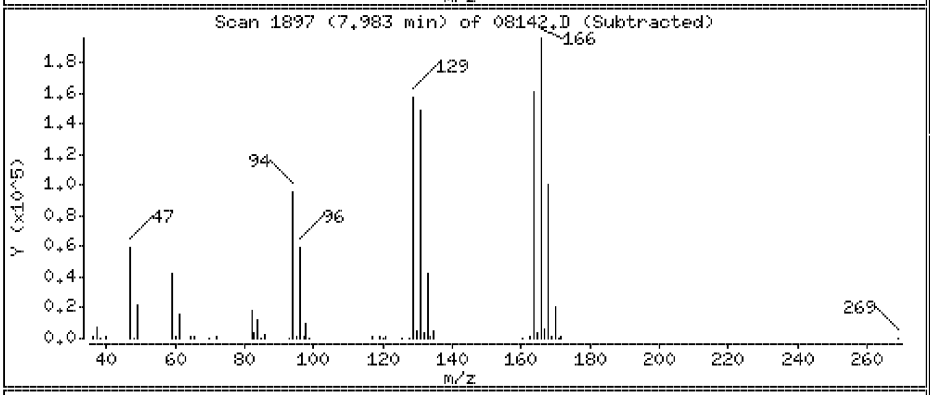
Column phase: J&W DB-5

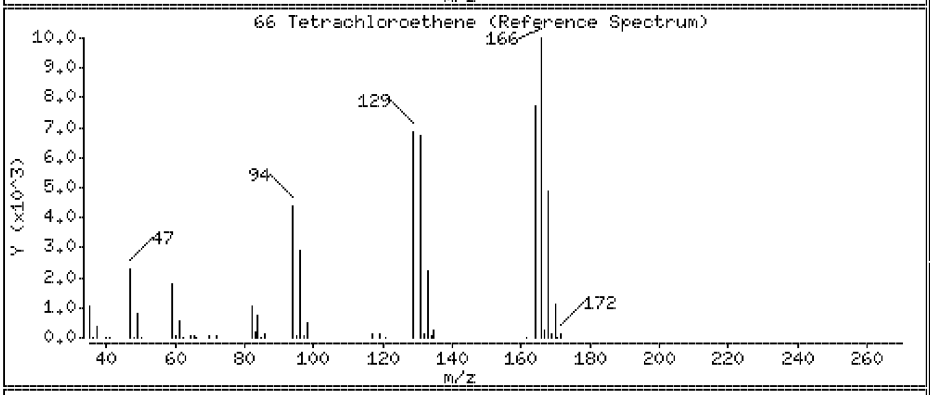
Column diameter: 0.32

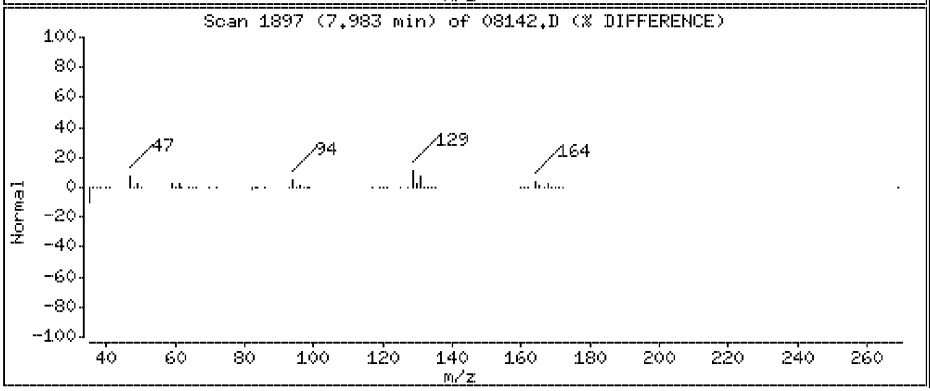
66 Tetrachloroethene

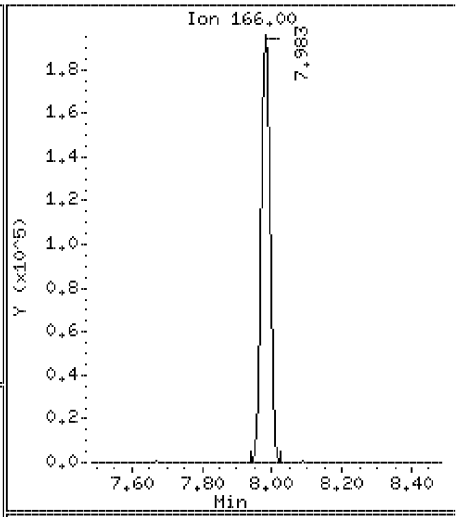
Concentration: 279 ppbv

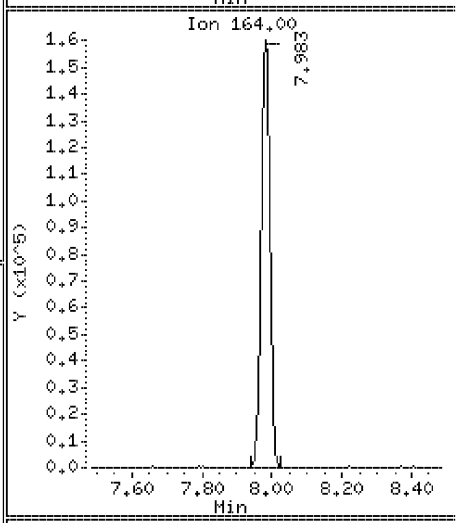


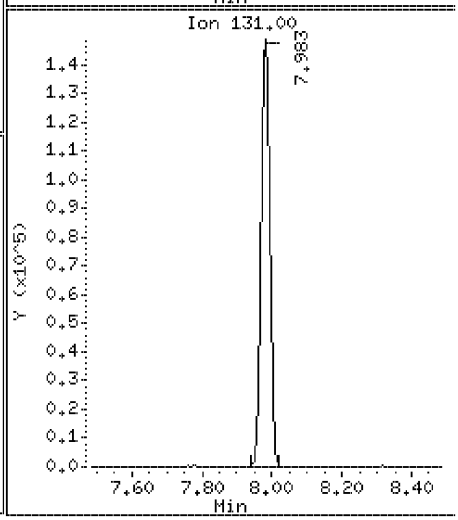












Data File: \\192.168.10.12\chem\10airB.i\032217.b/08142.D
Injection Date: 23-MAR-2017 06:38
Instrument: 10airB.i
Lab Sample ID: 10381035006
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_20_20170302 **Lab ID: 10381035007** Collected: 03/02/17 12:05 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**33.8**	ug/m3	4.2	1.5	1.75		03/21/17 16:47	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 16:47	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 16:47	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 16:47	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 16:47	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 16:47	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 16:47	106-99-0	
2-Butanone (MEK)	**7.7**	ug/m3	5.2	0.40	1.75		03/21/17 16:47	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 16:47	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 16:47	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 16:47	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 16:47	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 16:47	75-00-3	
Chloroform	**1.1**	ug/m3	0.87	0.33	1.75		03/21/17 16:47	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 16:47	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 16:47	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 16:47	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 16:47	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 16:47	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 16:47	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 16:47	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 16:47	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 16:47	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 16:47	75-71-8	
1,1-Dichloroethane	**1.4J**	ug/m3	1.4	0.27	1.75		03/21/17 16:47	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 16:47	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 16:47	75-35-4	
cis-1,2-Dichloroethene	**105**	ug/m3	1.4	0.43	1.75		03/21/17 16:47	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 16:47	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 16:47	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 16:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 16:47	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 16:47	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 16:47	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 16:47	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 16:47	100-41-4	
4-Ethyltoluene	**2.4**	ug/m3	1.8	0.33	1.75		03/21/17 16:47	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 16:47	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/21/17 16:47	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 16:47	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 16:47	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 16:47	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 16:47	108-87-2	
Methylene Chloride	**<0.95**	ug/m3	6.2	0.95	1.75		03/21/17 16:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 16:47	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 16:47	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D
Report Date: 22-Mar-2017 12:25

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08017.D
Lab Smp Id: 10381035007
Inj Date : 21-MAR-2017 16:47
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 17
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.545	3.545	(0.633)	115863	4.83966	8.47(M)	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.664	3.677	(0.654)	19081	0.14746	0.258	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.719	3.722	(0.664)	827289	8.00387	14.0	
19	Isopropyl Alcohol	45	3.767	3.764	(0.672)	150665	1.29366	2.26(M)	
20	1,1-Dichloroethene	61	3.899	3.912	(0.696)	4731	0.05056	0.0885	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.938	3.951	(0.703)	14102	0.14303	0.250	
23	Methyl Acetate	43	3.957	3.957	(0.706)	16378	0.10472	0.183(Q)	
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D
Report Date: 22-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.439	4.388	(0.792)	62432	0.40192	0.703	
	31 1,1-Dichloroethane	63	4.391	4.410	(0.784)	19620	0.19905	0.348	
$	32 Hexane-d14(S)	66	4.487	4.491	(0.801)	2082984	9.50358	9.50	
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.814)	35087	1.47204	2.58(Q)	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 Ethyl Acetate	43	4.719	4.716	(0.842)	142024	0.92064	1.61(Q)	
	37 cis-1,2-Dichloroethene	96	4.709	4.725	(0.840)	827512	14.8297	26.0(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.819	4.841	(0.860)	14392	0.12347	0.216	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.217	5.233	(0.931)	42517	0.31051	0.543	
	42 1,2-Dichloroethane	62	5.211	5.237	(0.930)	2690	0.02377	0.0416(a)	
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	6394778	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.976	5.986	(1.067)	1357553	15.7642	27.6	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5705409	9.68875	9.69	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.147	7.153	(1.275)	68077	0.31826	0.557	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.581	(0.876)	47212	0.30634	0.536(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	1409456	14.8181	25.9	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	4193193	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.076	9.082	(1.051)	23484	0.27051	0.473	
	71 n-Nonane	43	9.494	9.468	(1.099)	40116	0.31055	0.543(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.500	9.507	(1.100)	2441	0.14507	0.254(M)	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	10.880	10.915	(1.259)	35692	0.27659	0.484(QM)	

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D
Report Date: 22-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	11.018	10.998	(1.275)	14693	0.19906	0.348	
80	n-Decane	57	11.381	11.381	(2.031)	62522	0.48801	0.854(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.507	11.510	(1.332)	7372	0.16326	0.286(M)	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	1980079	9.78540	9.79	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.031	12.034	(1.393)	2700	0.16011	0.280	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.156	(1.641)	4390	0.45943	0.804	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D
Report Date: 22-Mar-2017 12:25

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08017.D
Lab Smp Id: 10381035007
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

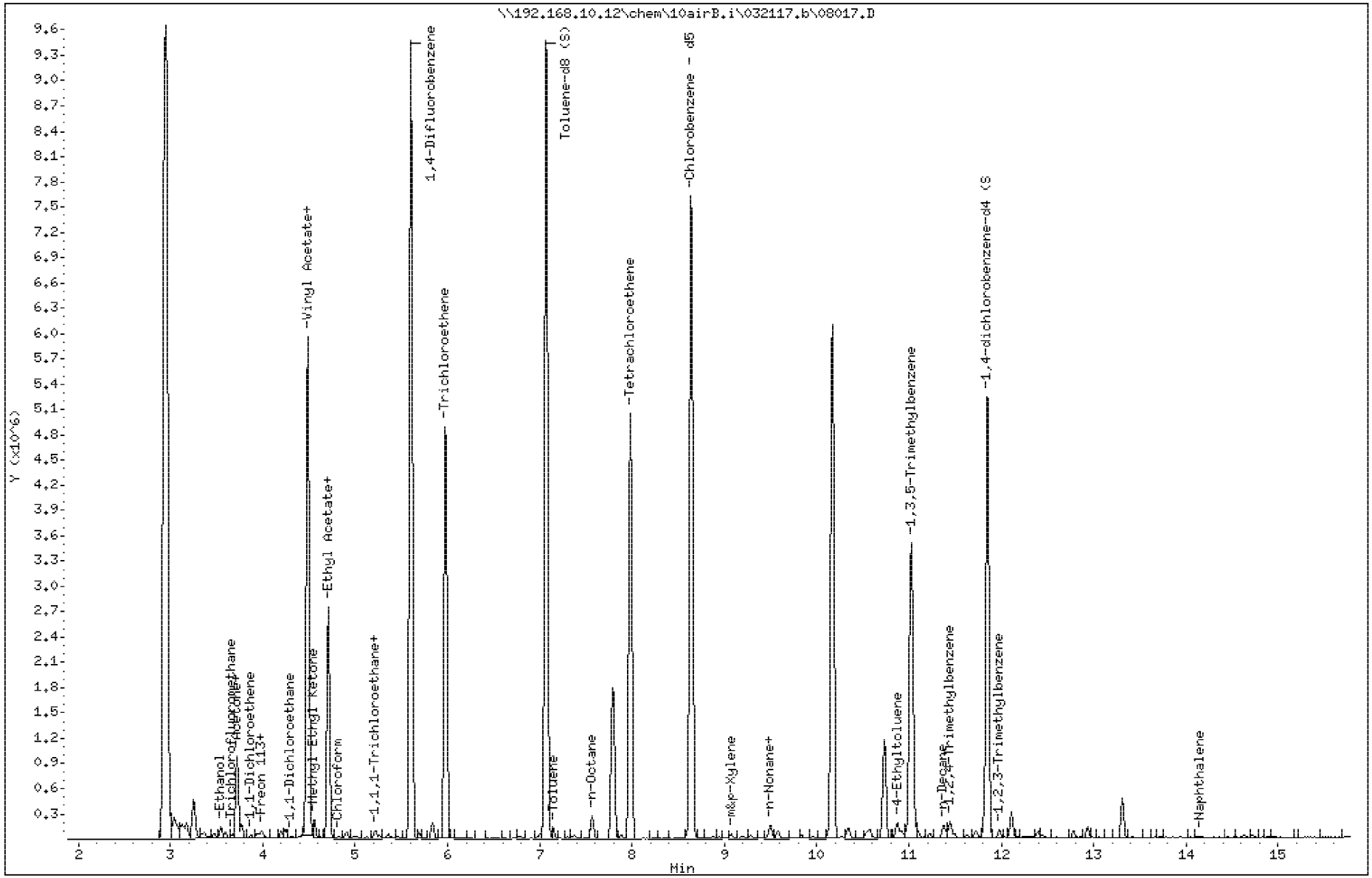
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6394778	-16.31
67 Chlorobenzene - d	5205948	3123569	7288327	4193193	-19.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D
Date : 21-MAR-2017 16:47
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

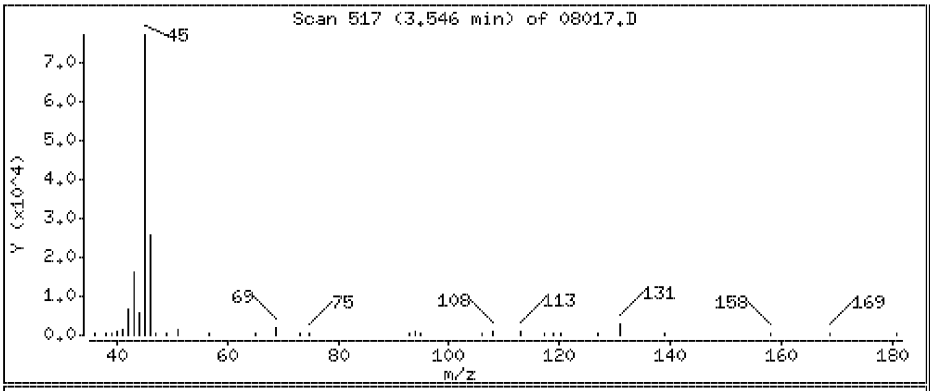
Operator: NCK

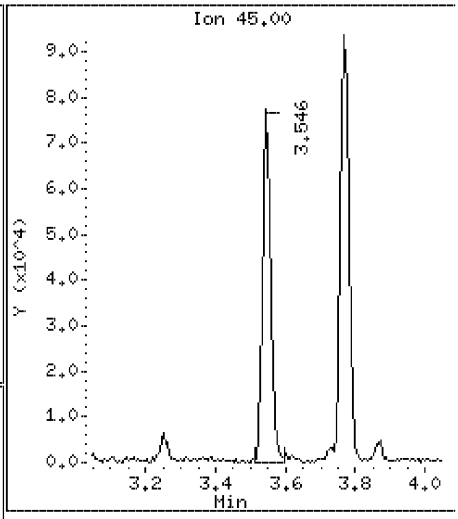
Column phase: J&W DB-5

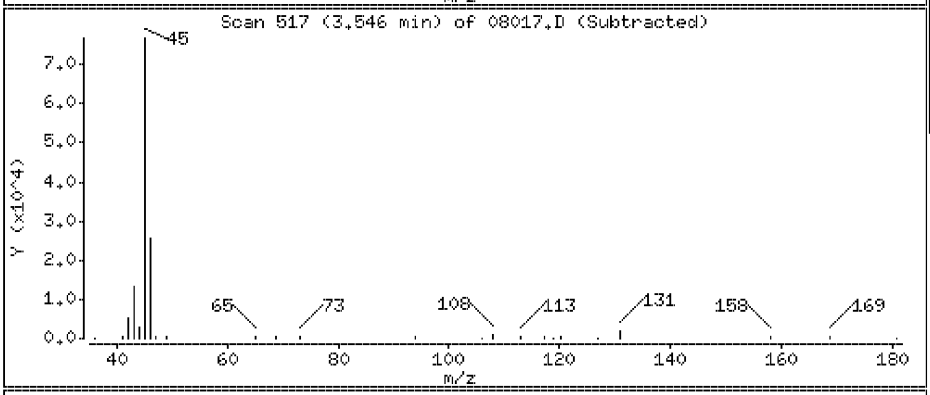
Column diameter: 0.32

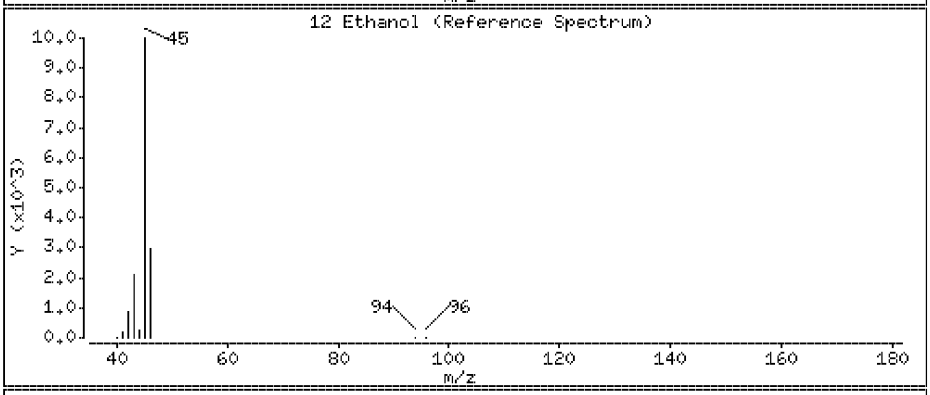
12 Ethanol

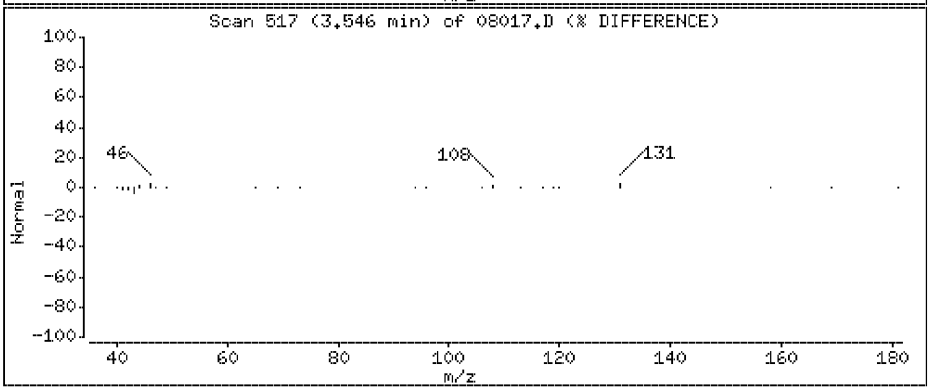
Concentration: 8.47 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

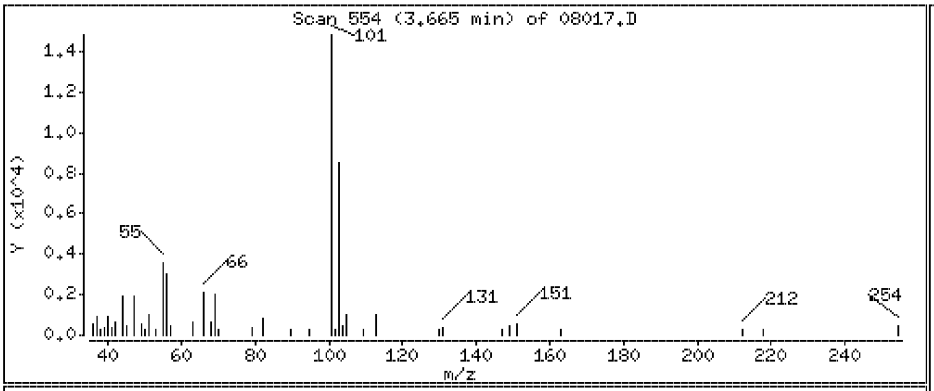
Operator: NCK

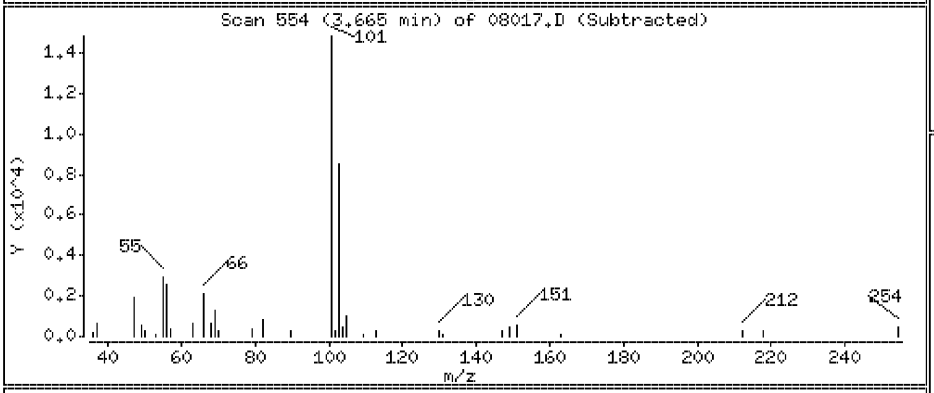
Column phase: J&W DB-5

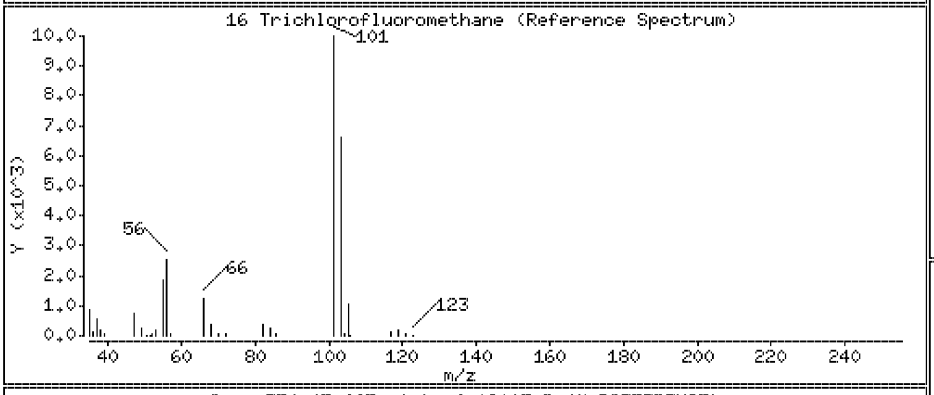
Column diameter: 0.32

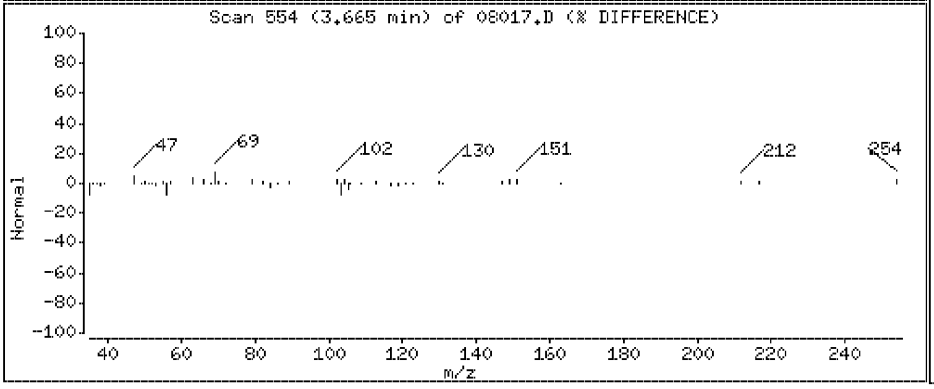
16 Trichlorofluoromethane

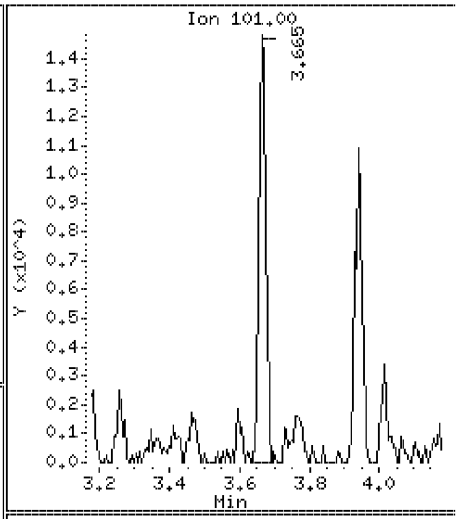
Concentration: 0.258 ppbv

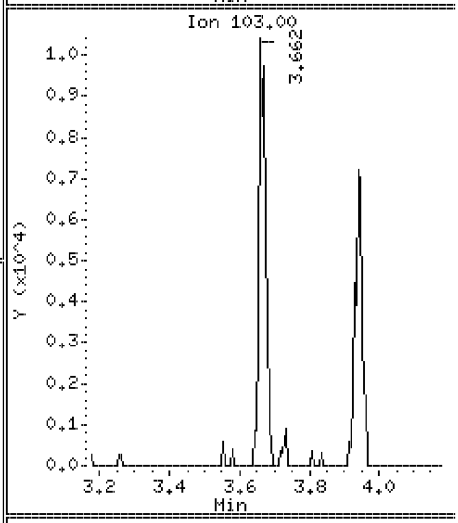


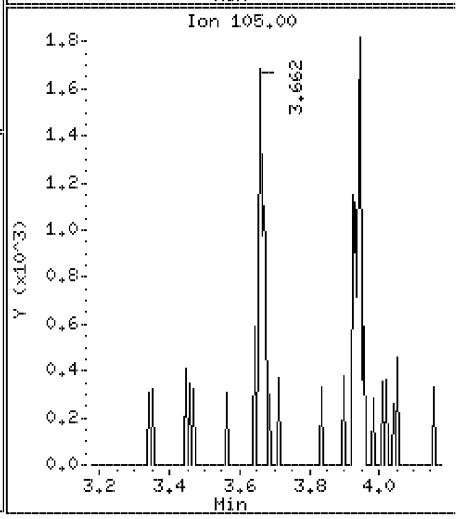












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

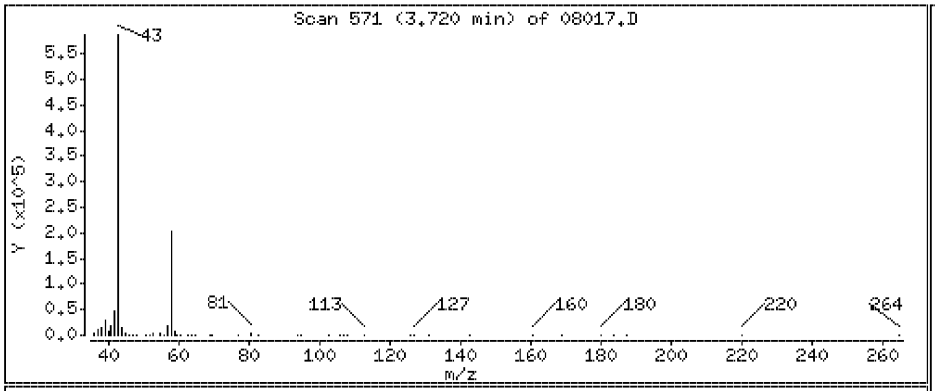
Operator: NCK

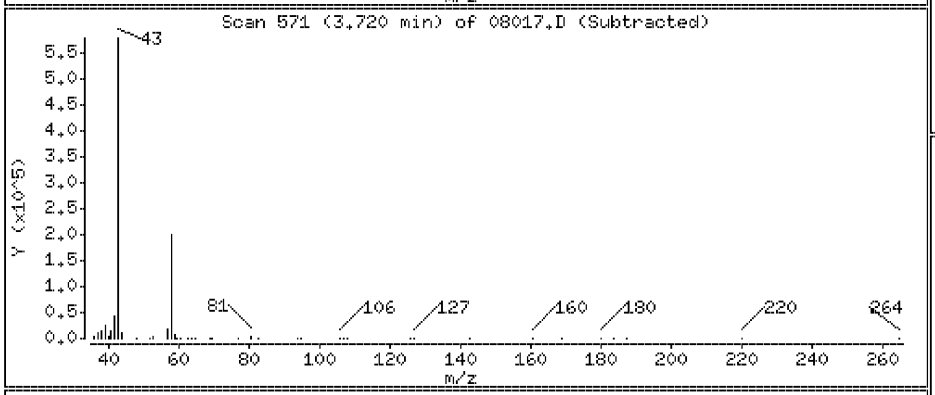
Column phase: J&W DB-5

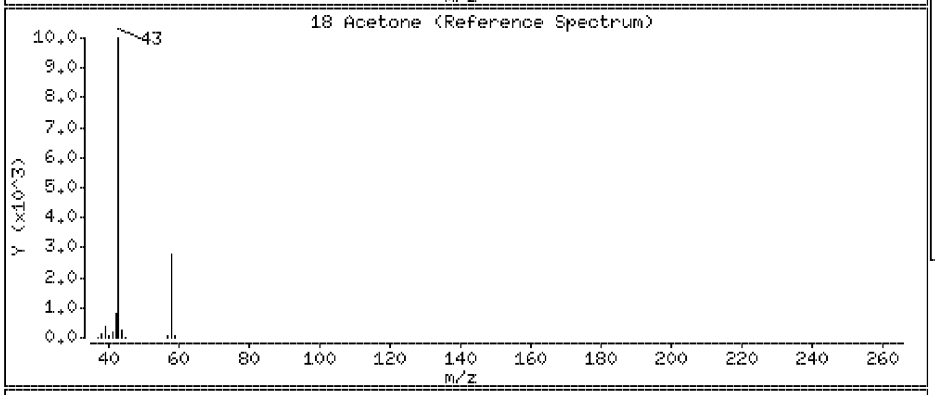
Column diameter: 0.32

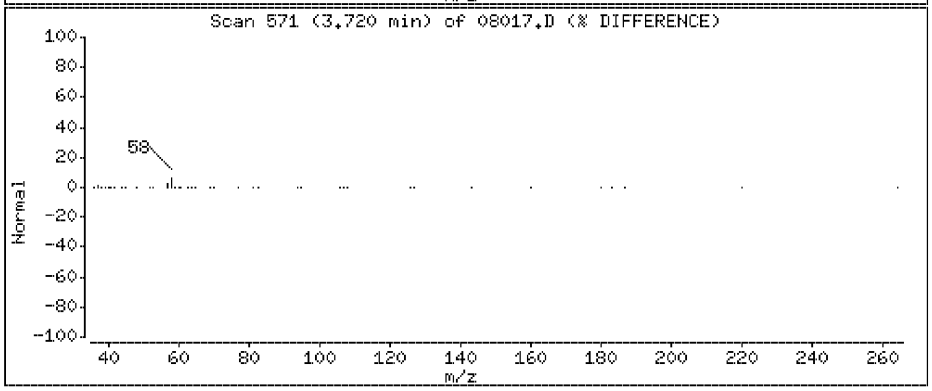
18 Acetone

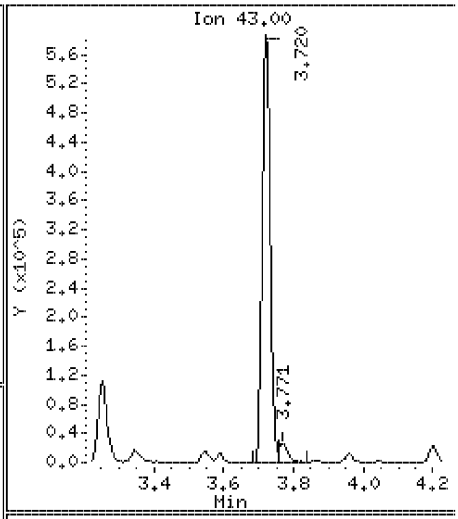
Concentration: 14.0 ppbv

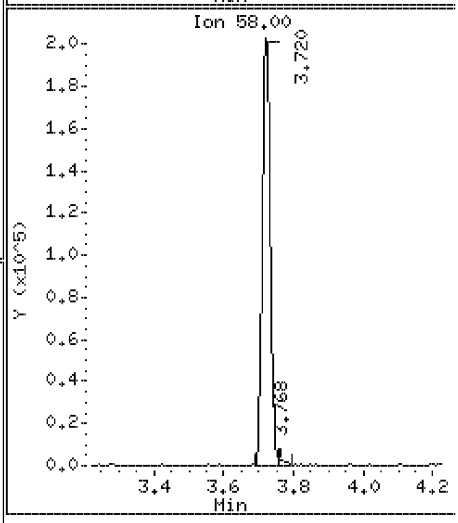












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

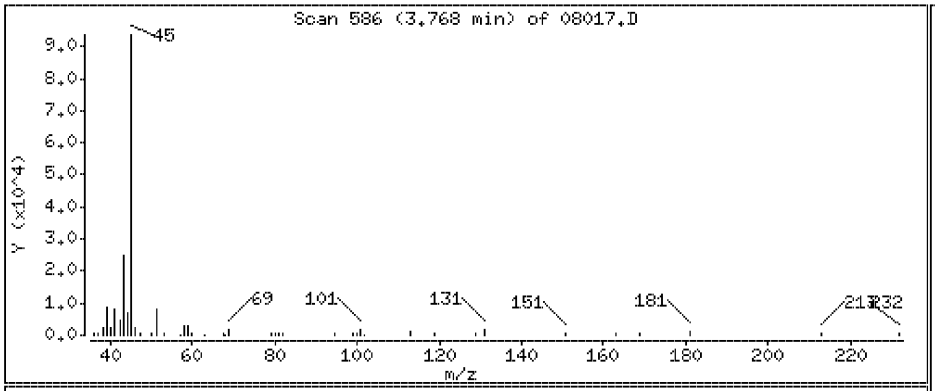
Operator: NCK

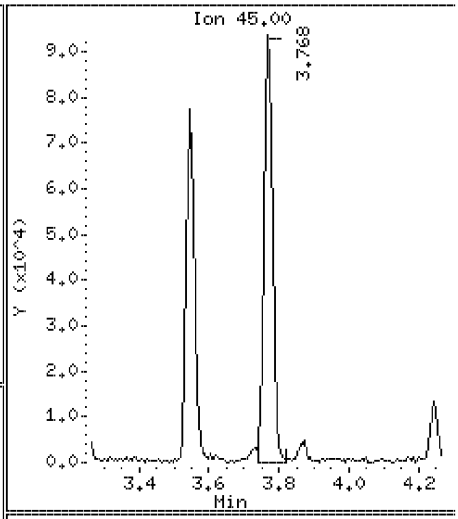
Column phase: J&W DB-5

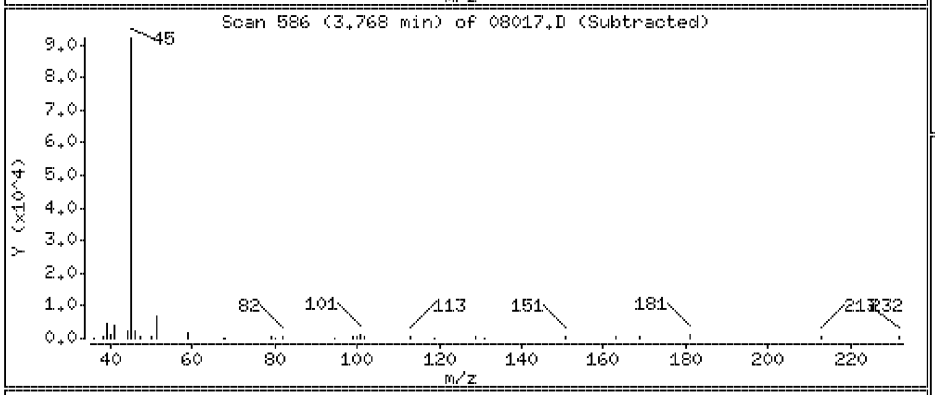
Column diameter: 0.32

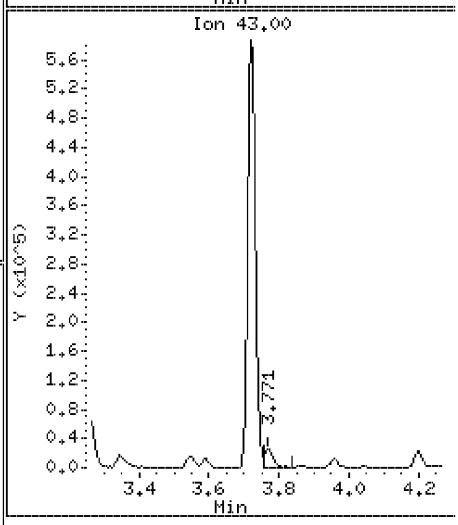
19 Isopropyl Alcohol

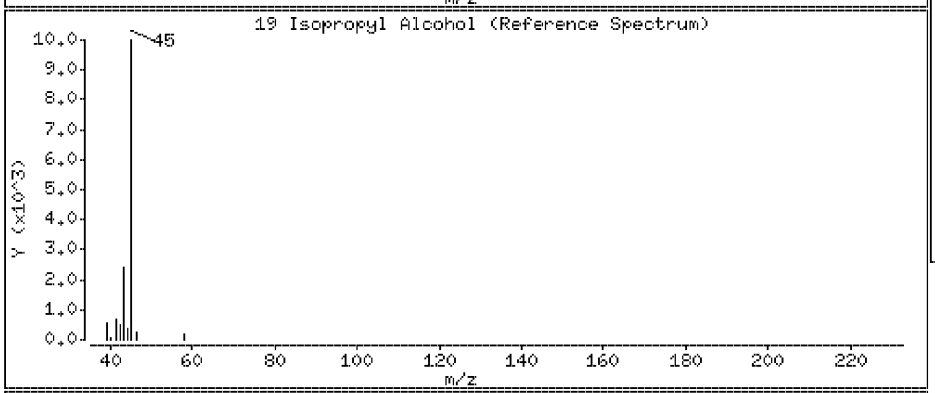
Concentration: 2.26 ppbv

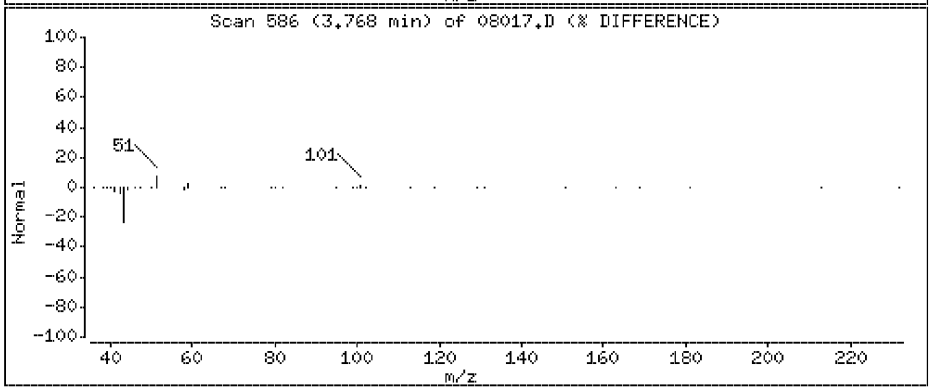












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

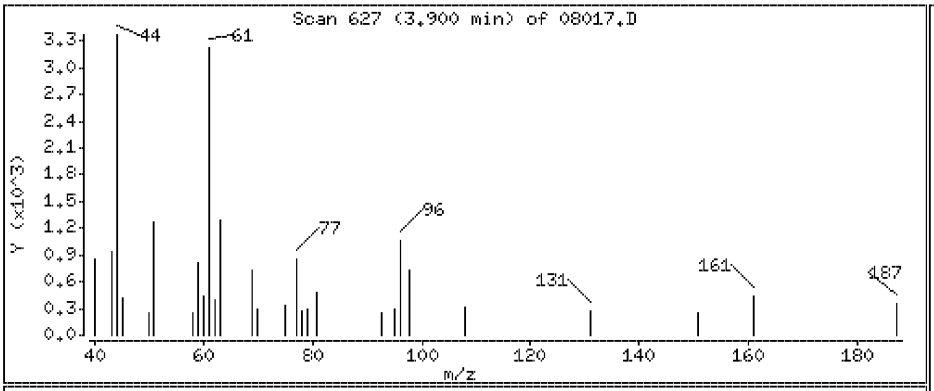
Operator: NCK

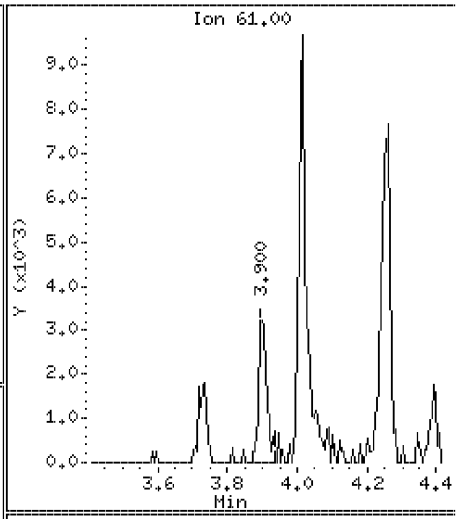
Column phase: J&W DB-5

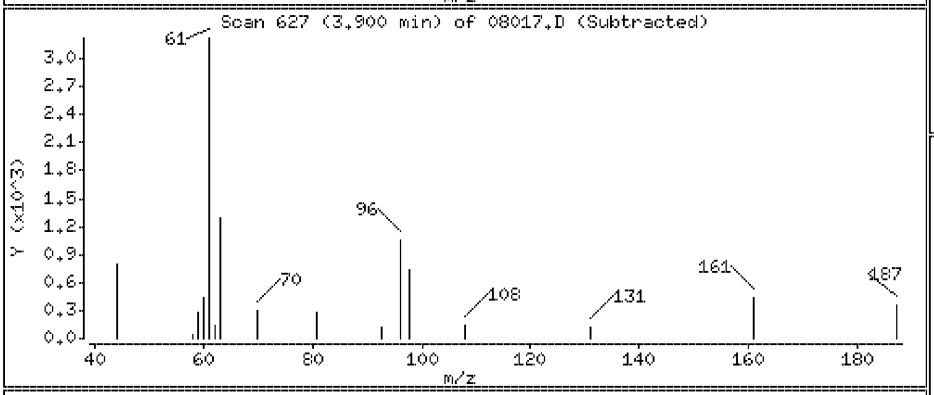
Column diameter: 0.32

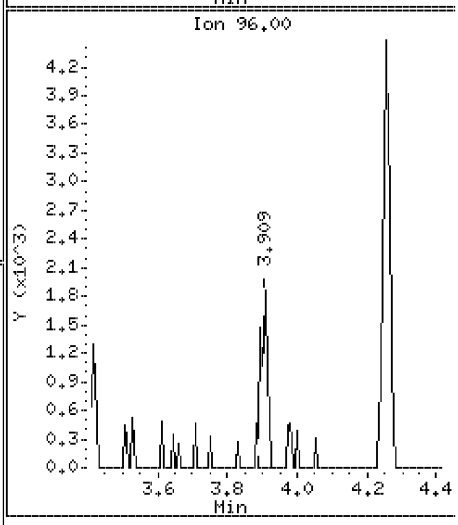
20 1,1-Dichloroethene

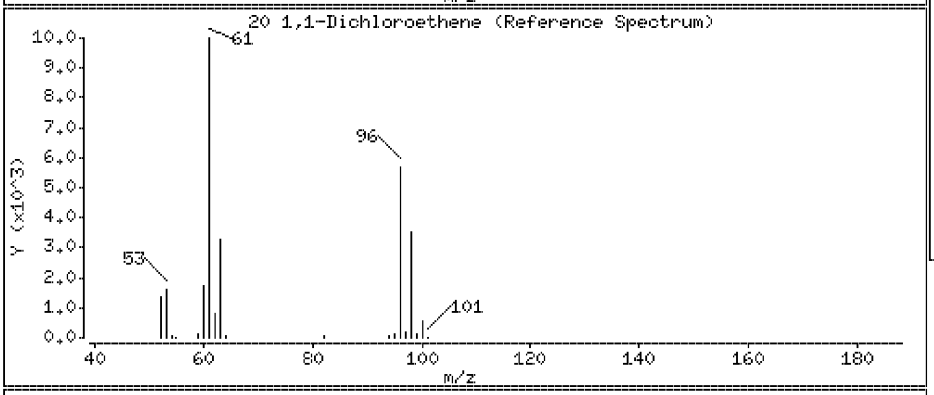
Concentration: 0.0885 ppbv

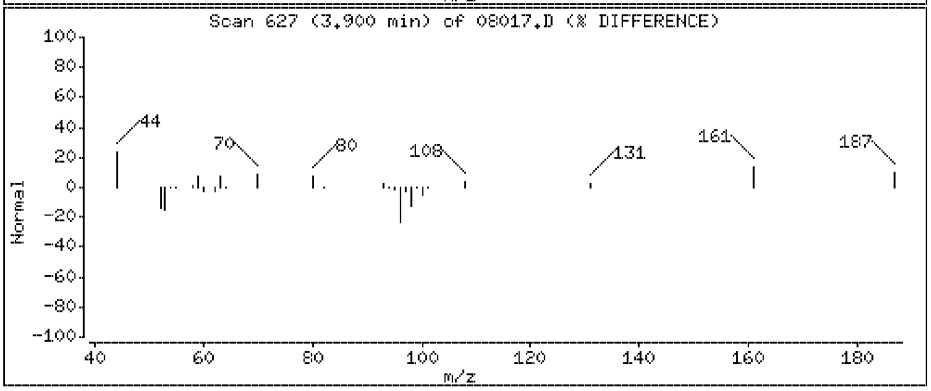












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

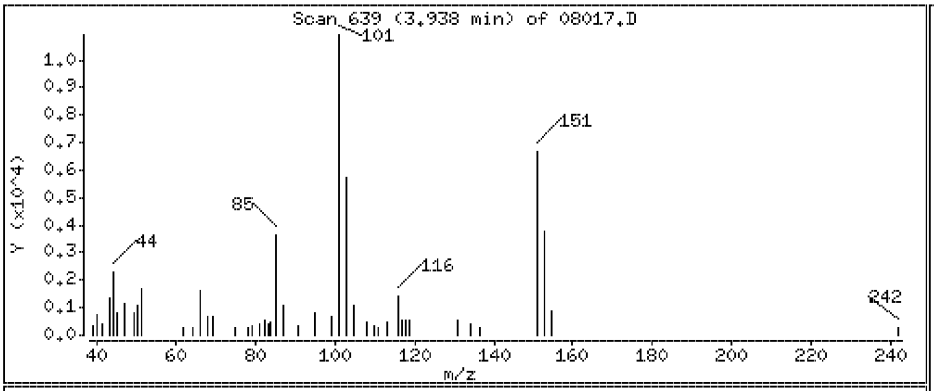
Operator: NCK

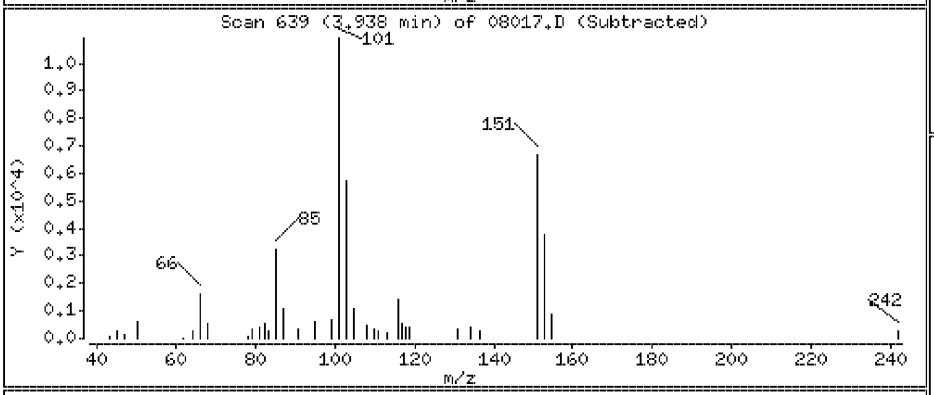
Column phase: J&W DB-5

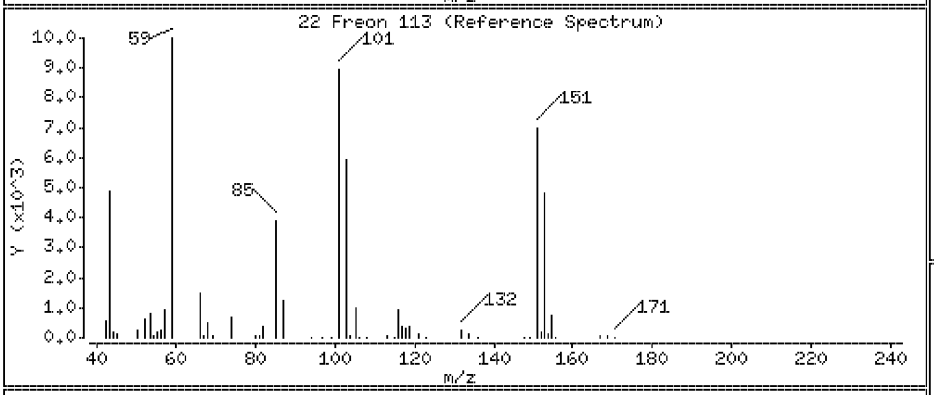
Column diameter: 0.32

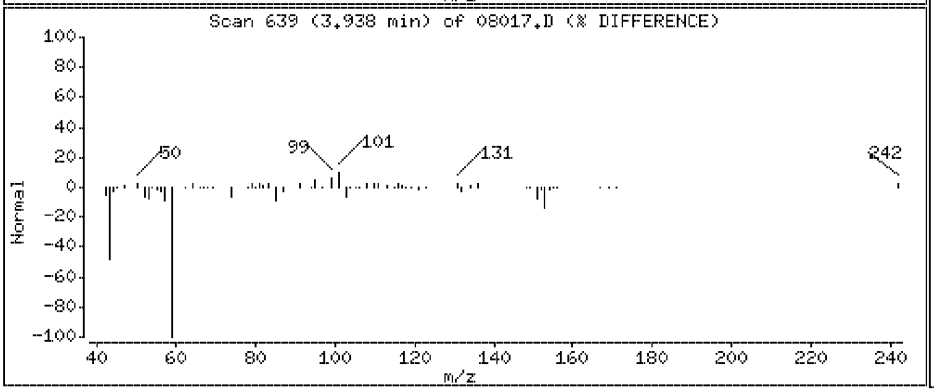
22 Freon 113

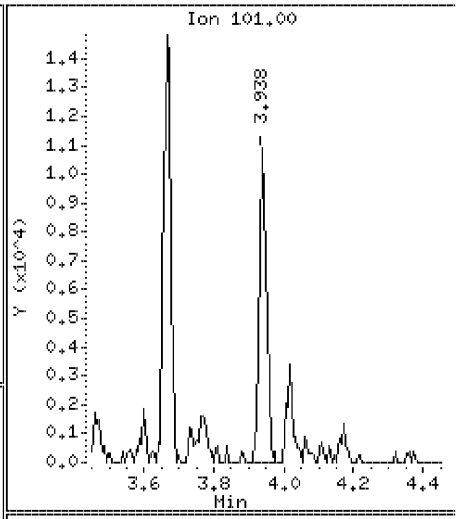
Concentration: 0.250 ppbv

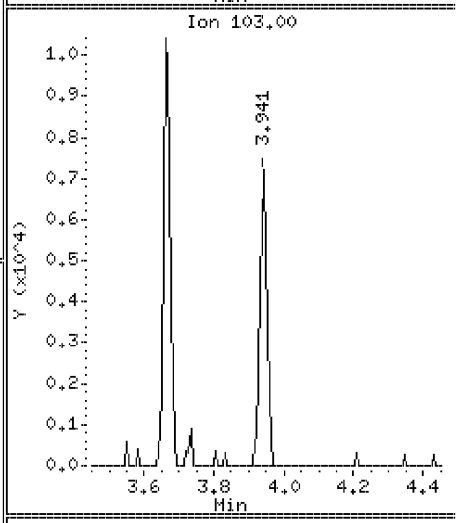


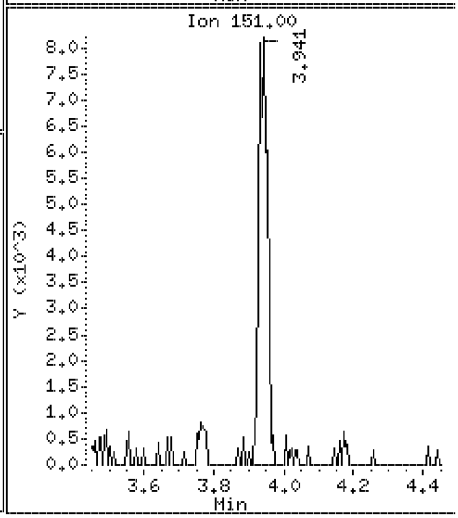












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

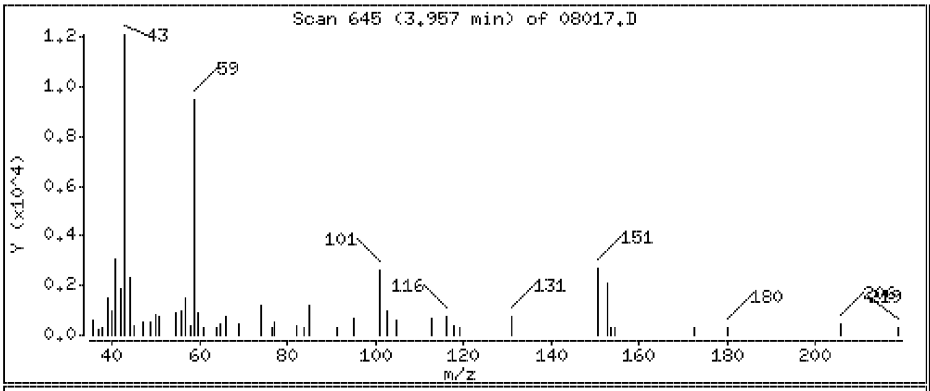
Operator: NCK

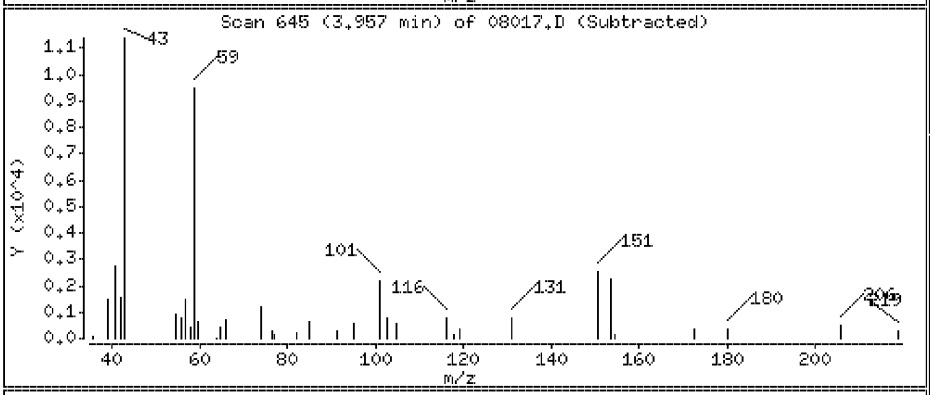
Column phase: J&W DB-5

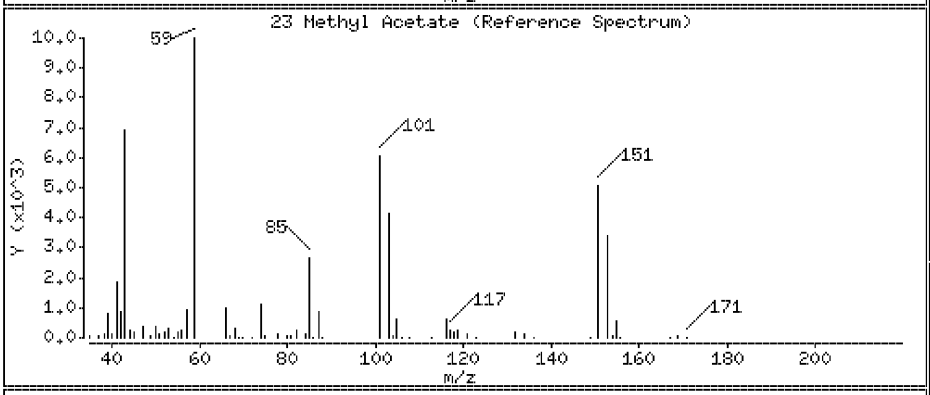
Column diameter: 0.32

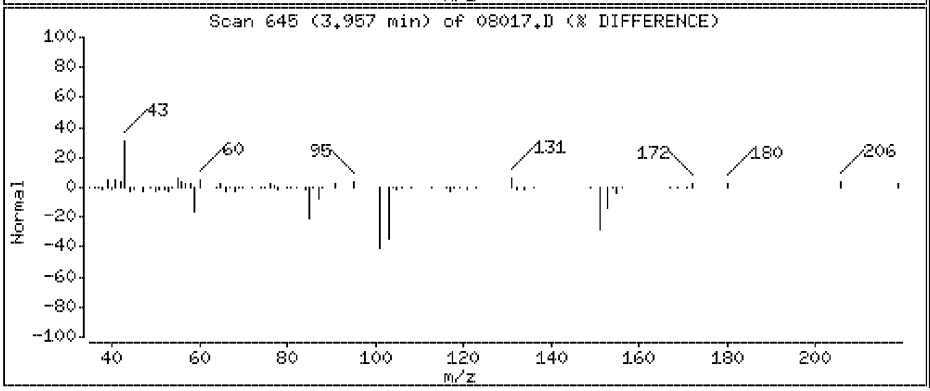
23 Methyl Acetate

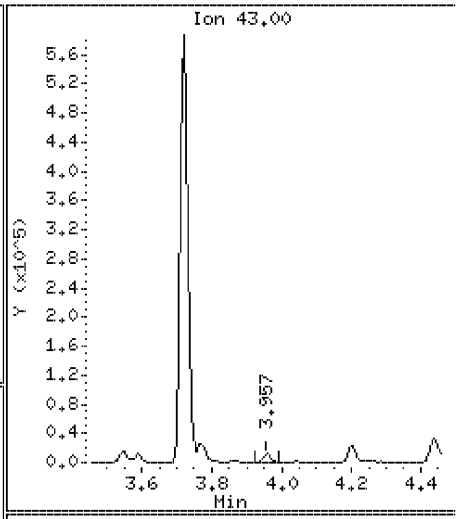
Concentration: 0.183 ppbv

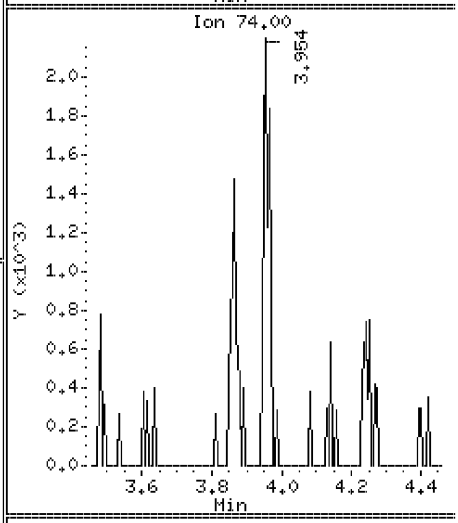


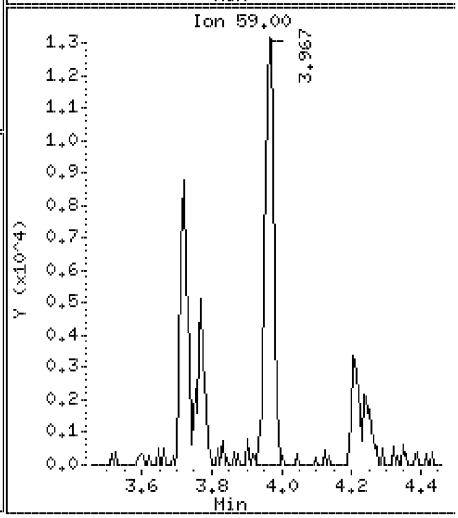












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

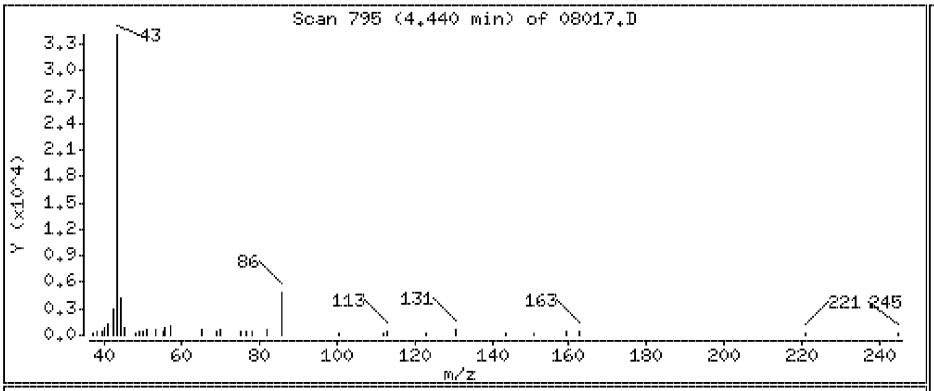
Operator: NCK

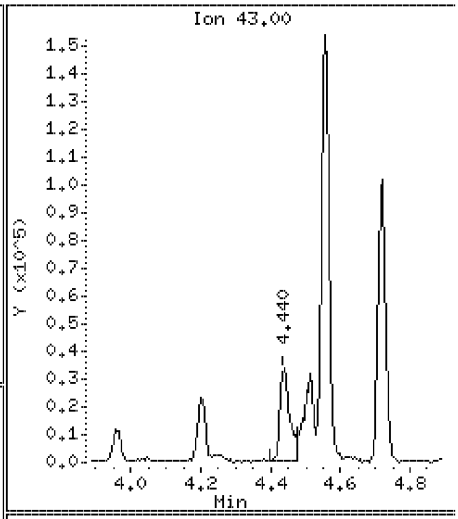
Column phase: J&W DB-5

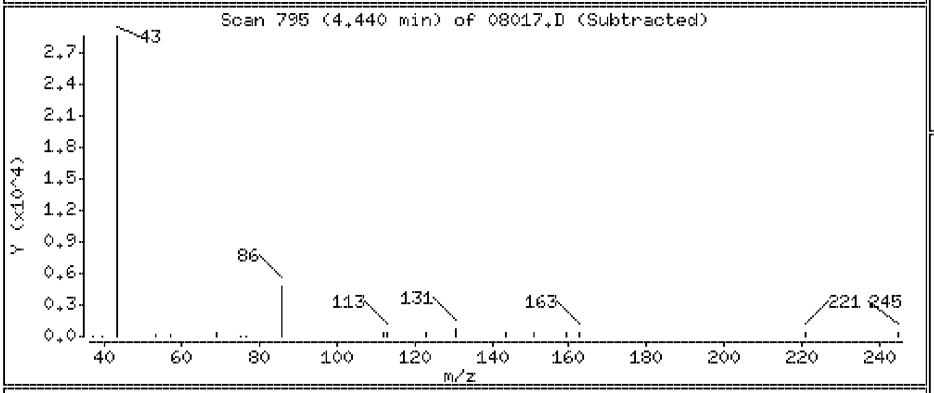
Column diameter: 0.32

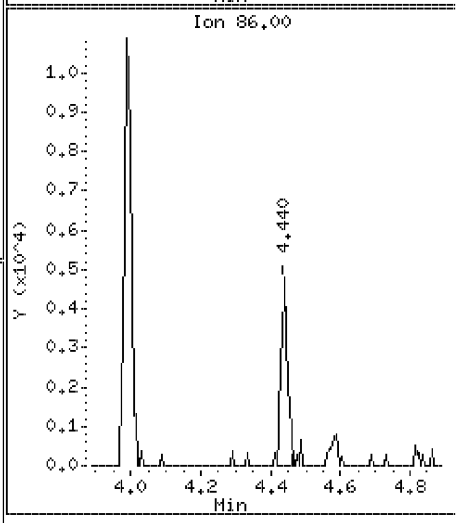
30 Vinyl Acetate

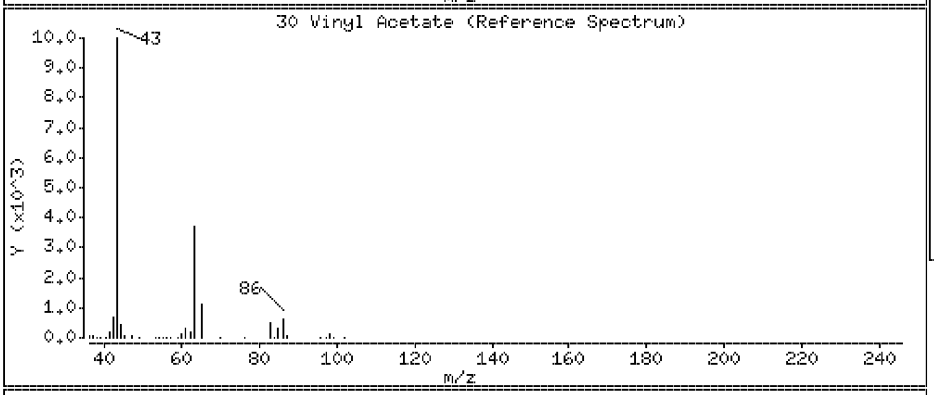
Concentration: 0.703 ppbv

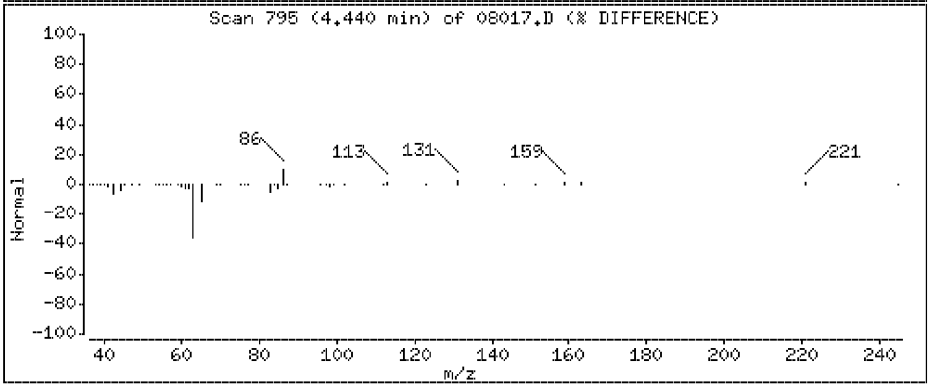












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

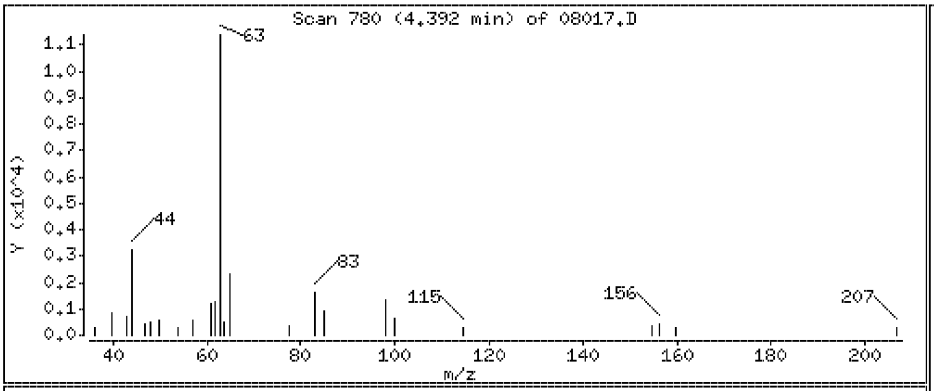
Operator: NCK

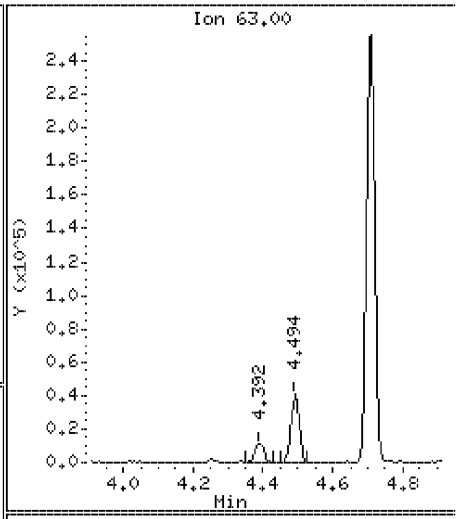
Column phase: J&W DB-5

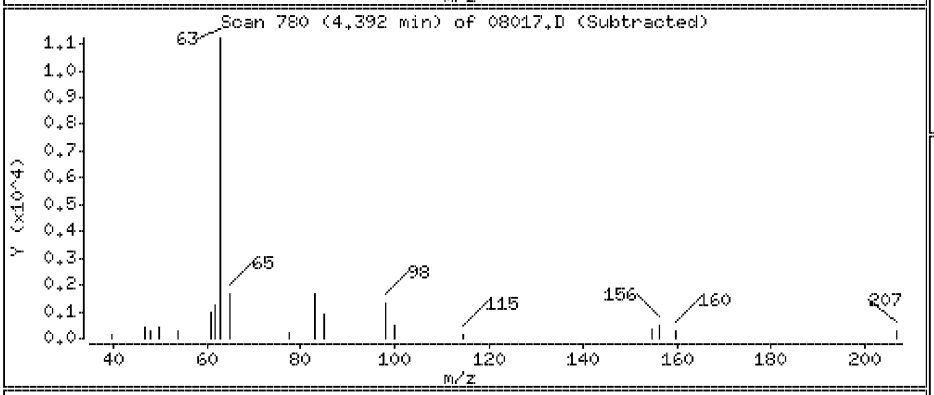
Column diameter: 0.32

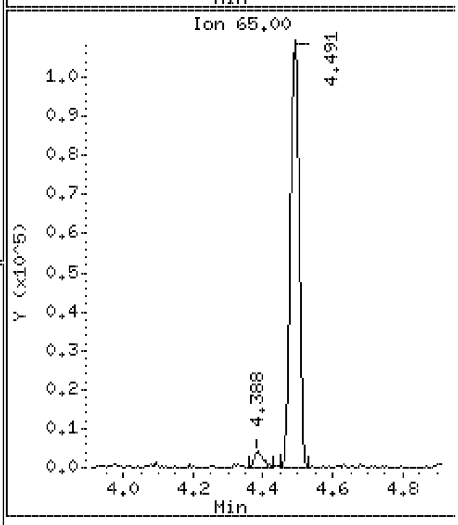
31 1,1-Dichloroethane

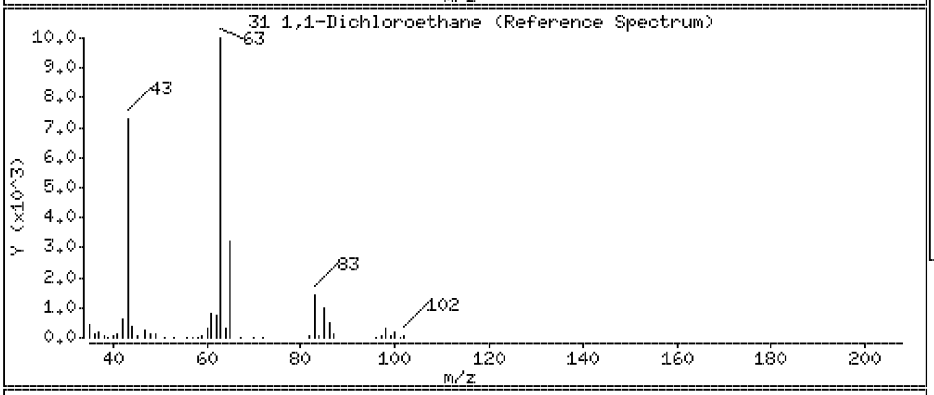
Concentration: 0.348 ppbv

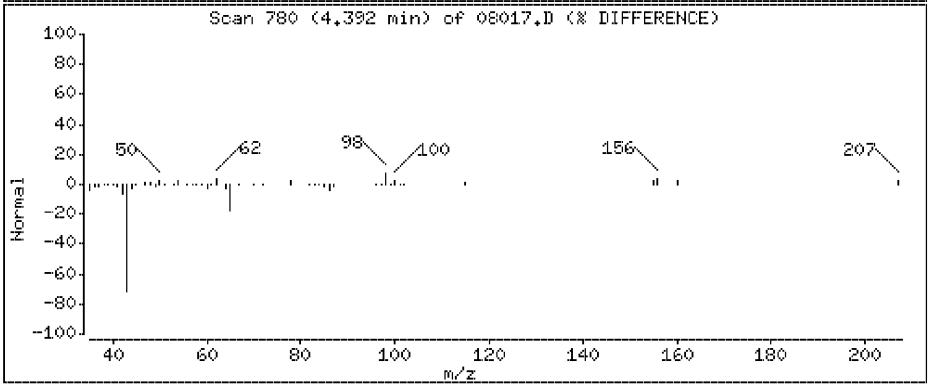












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

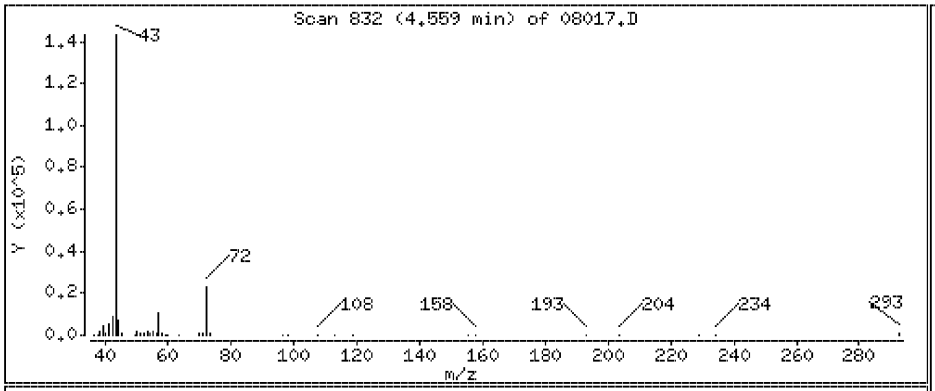
Operator: NCK

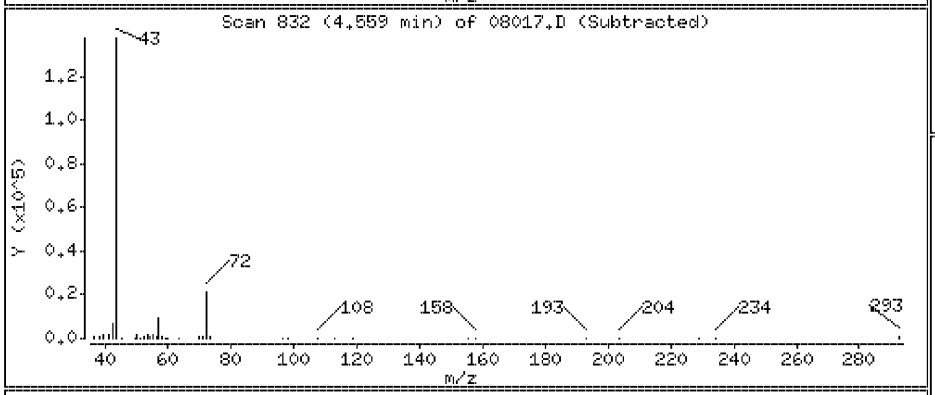
Column phase: J&W DB-5

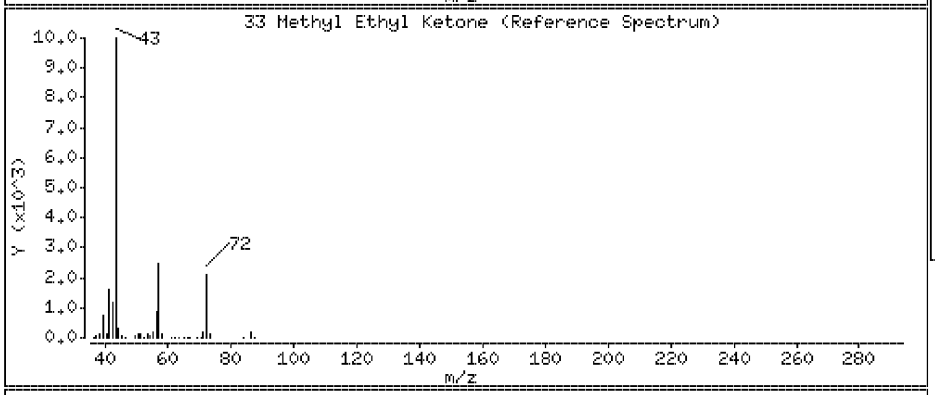
Column diameter: 0.32

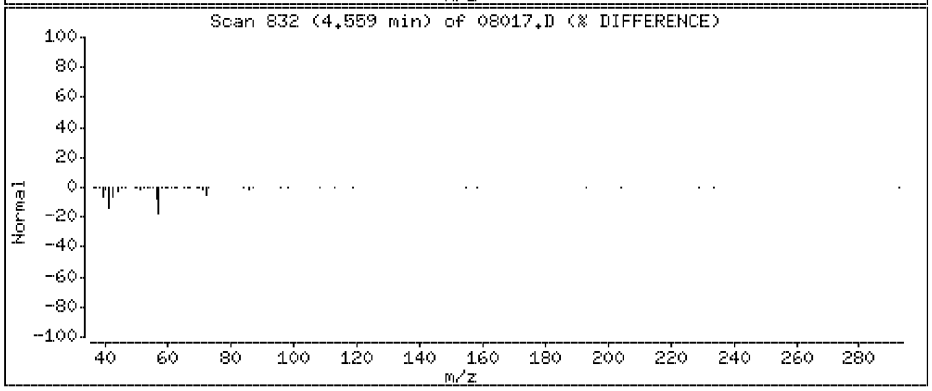
33 Methyl Ethyl Ketone

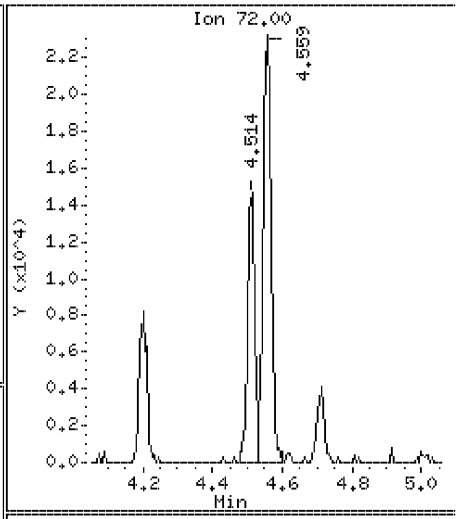
Concentration: 2.58 ppbv

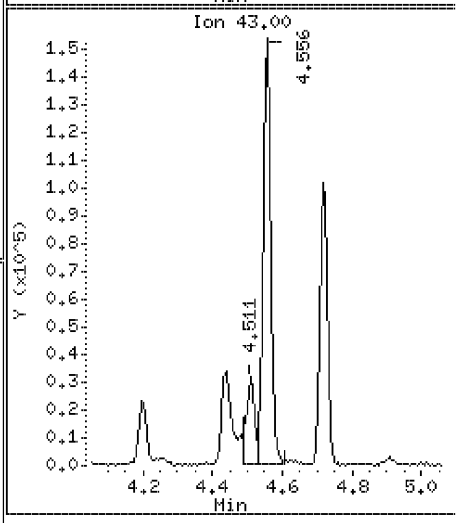












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

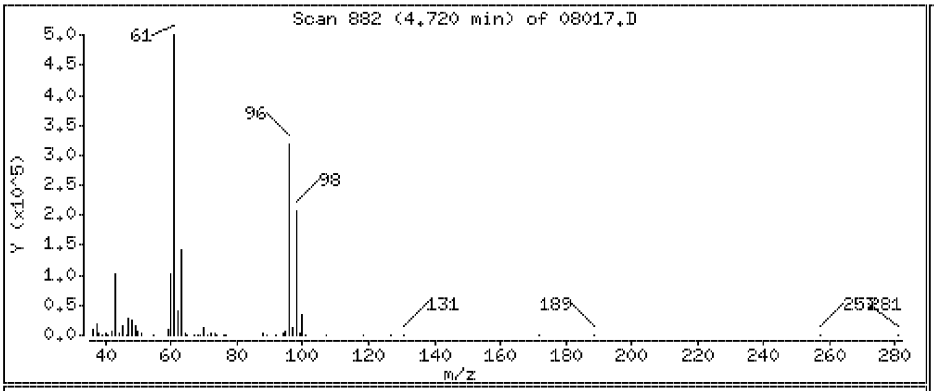
Operator: NCK

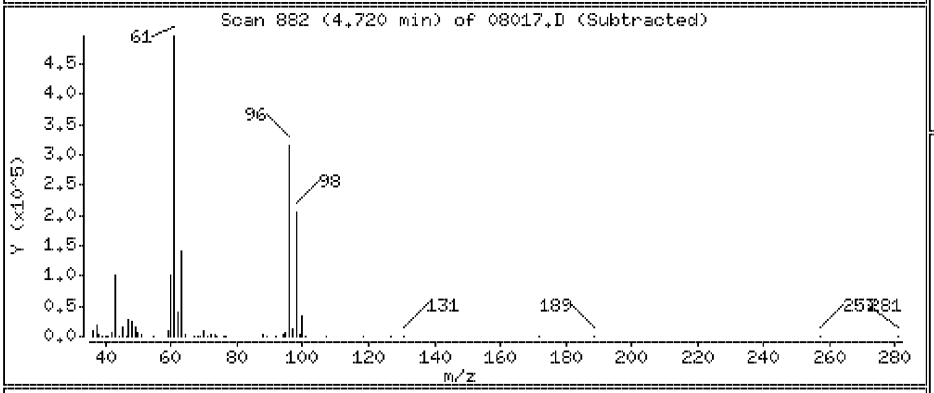
Column phase: J&W DB-5

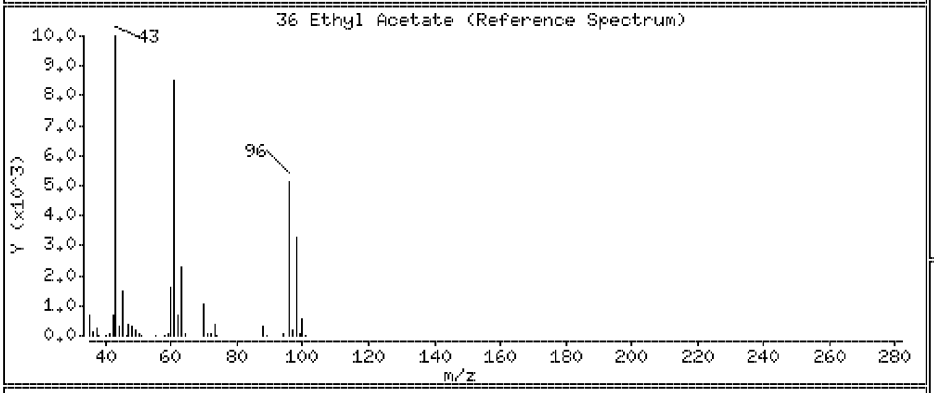
Column diameter: 0.32

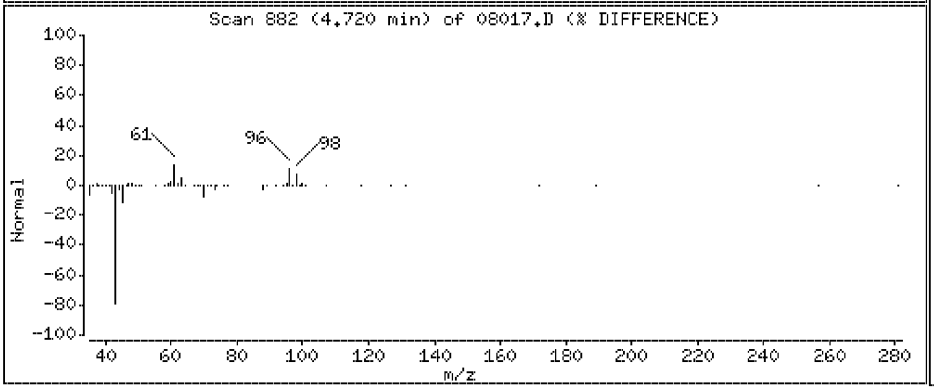
36 Ethyl Acetate

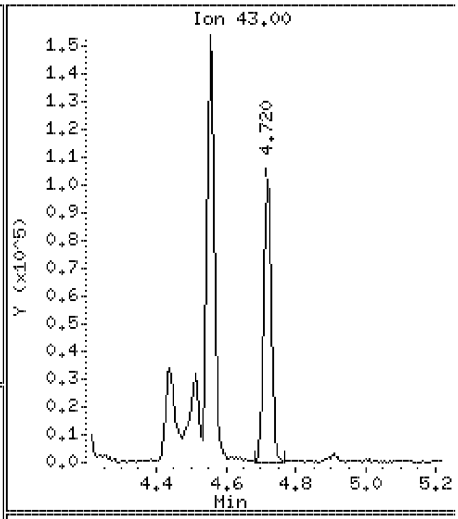
Concentration: 1.61 ppbv

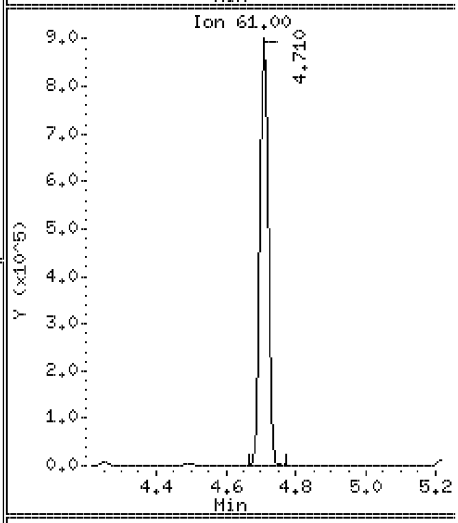


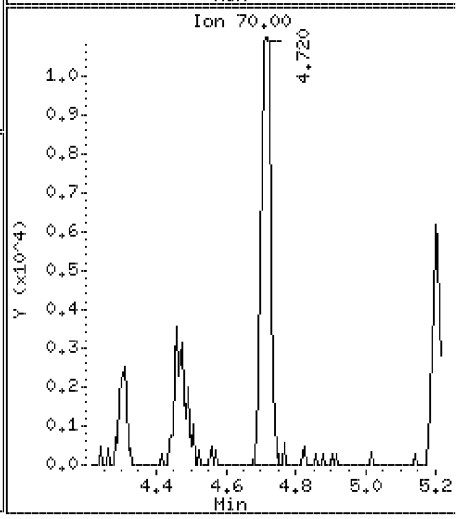












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

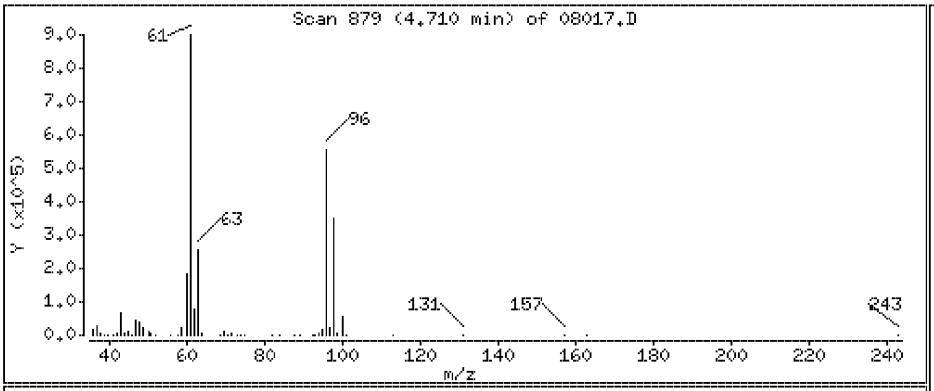
Operator: NCK

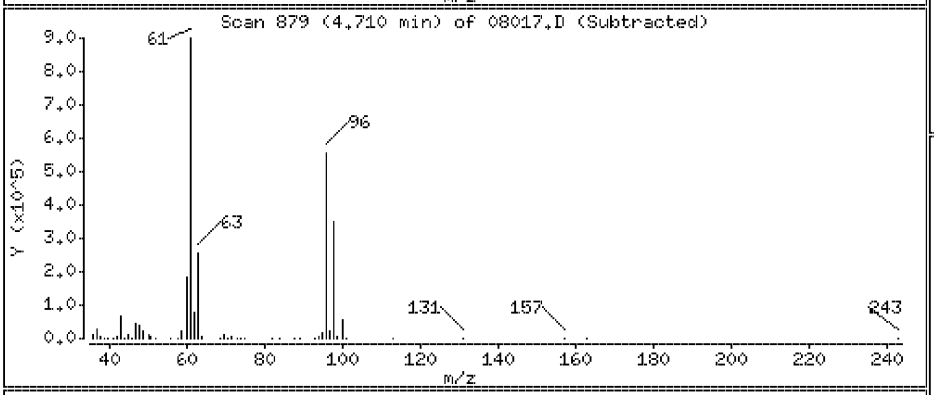
Column phase: J&W DB-5

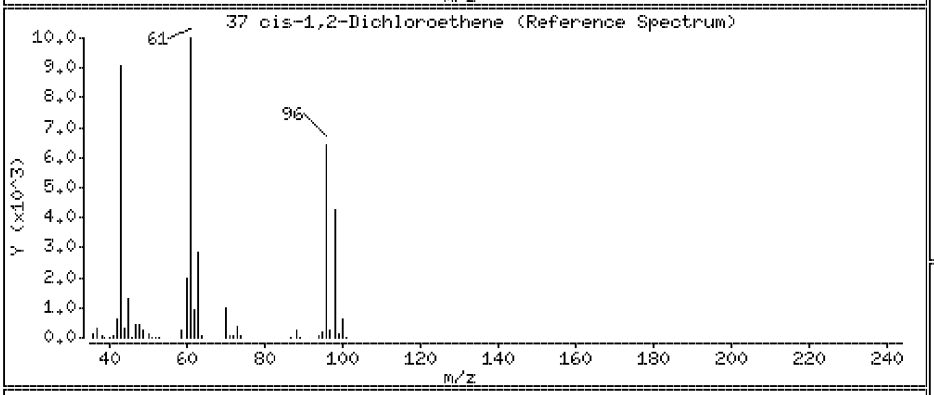
Column diameter: 0.32

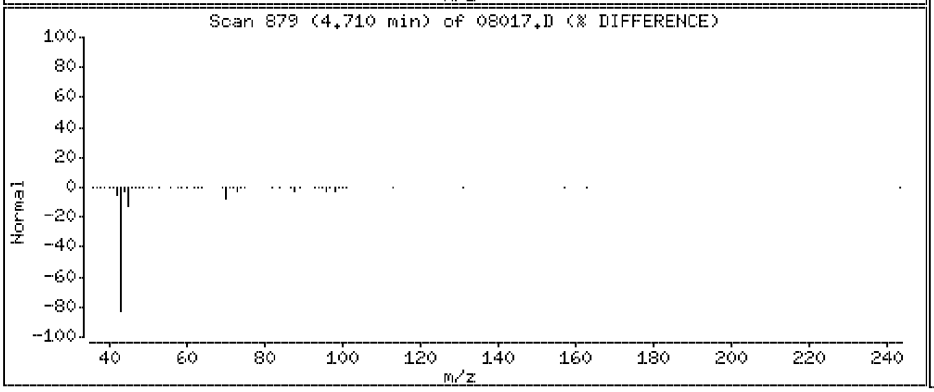
37 cis-1,2-Dichloroethene

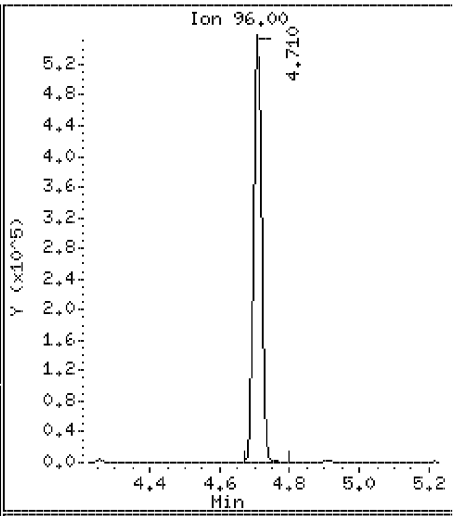
Concentration: 26.0 ppbv

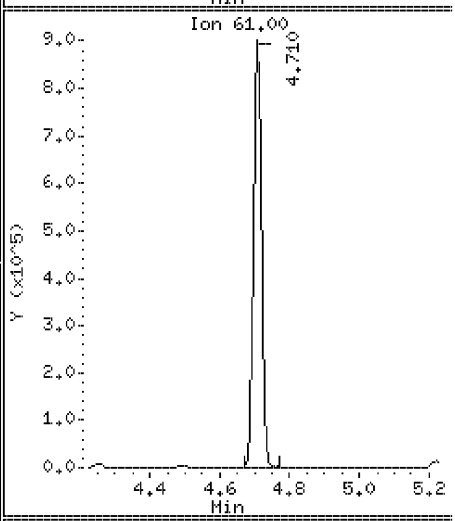


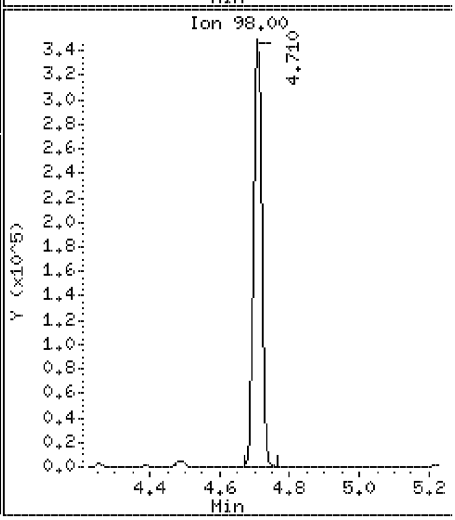












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

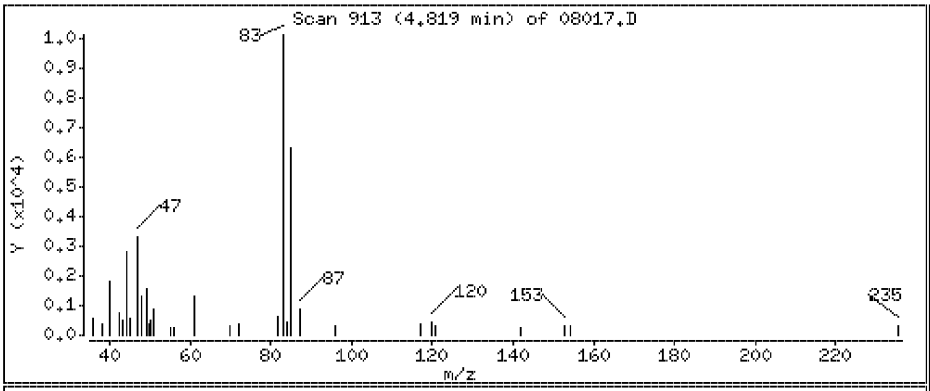
Operator: NCK

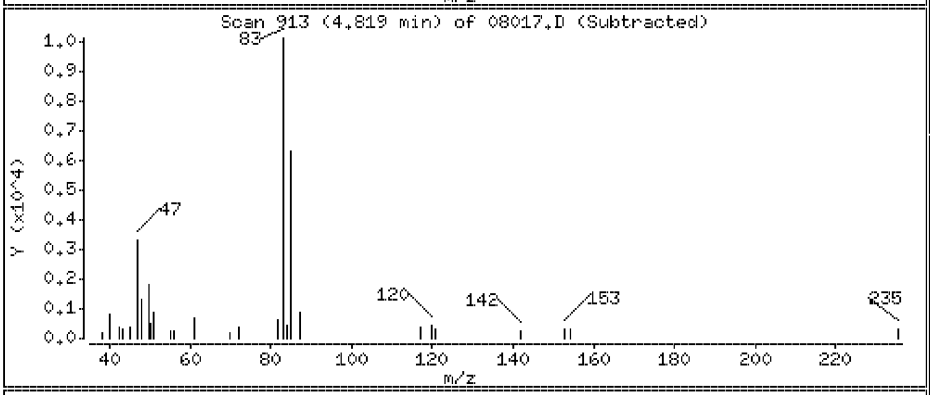
Column phase: J&W DB-5

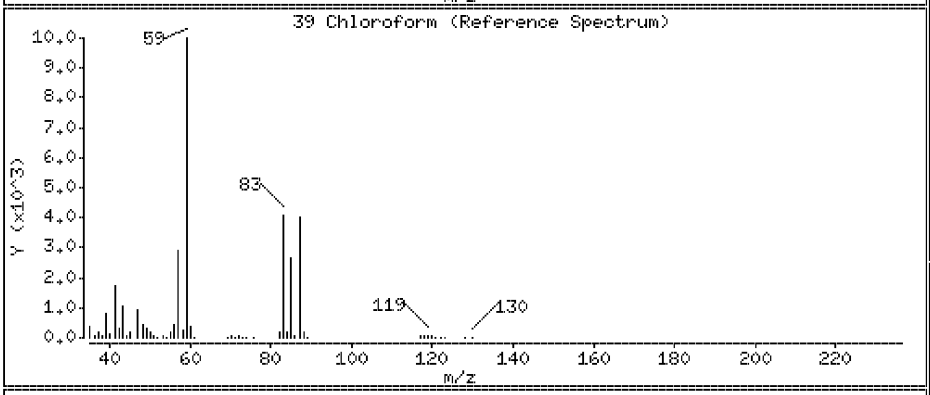
Column diameter: 0.32

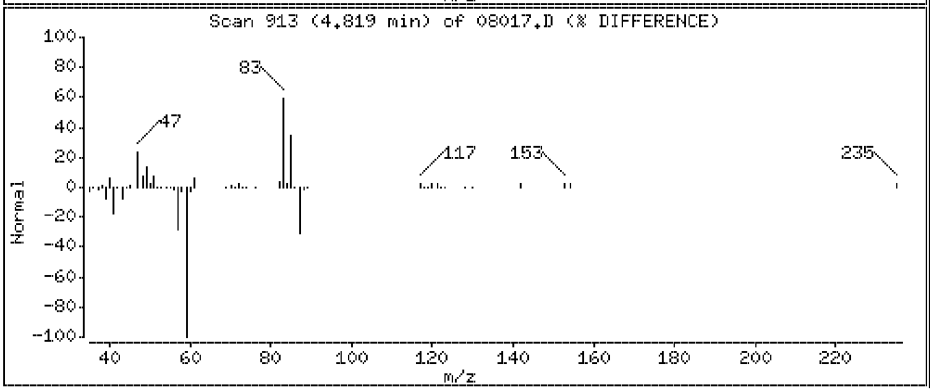
39 Chloroform

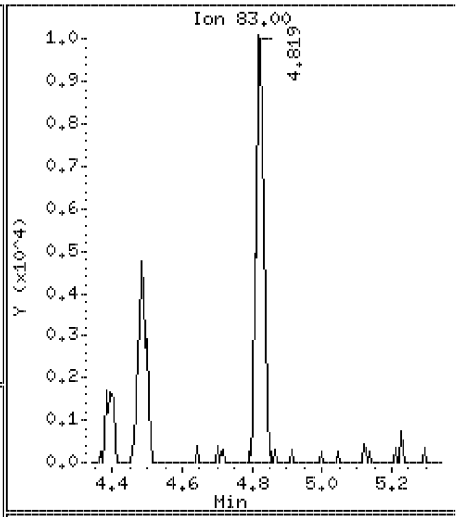
Concentration: 0.216 ppbv

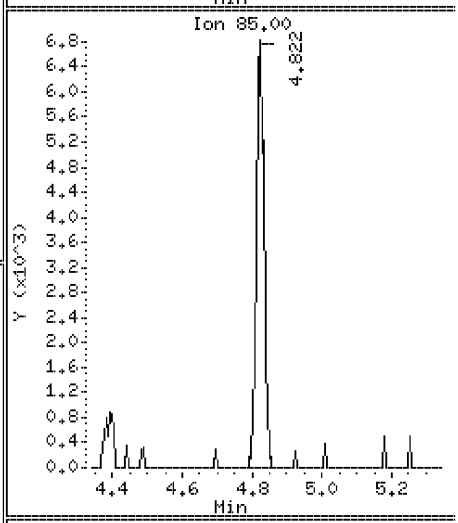


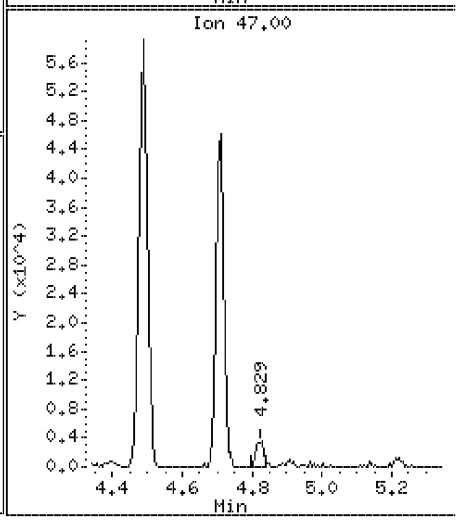












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

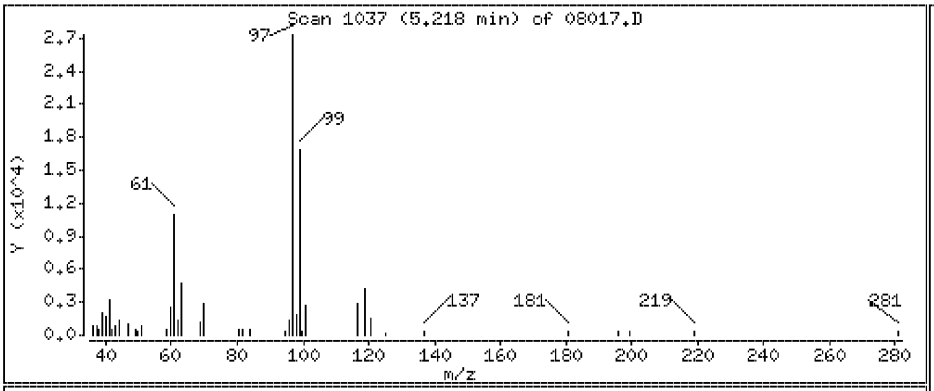
Operator: NCK

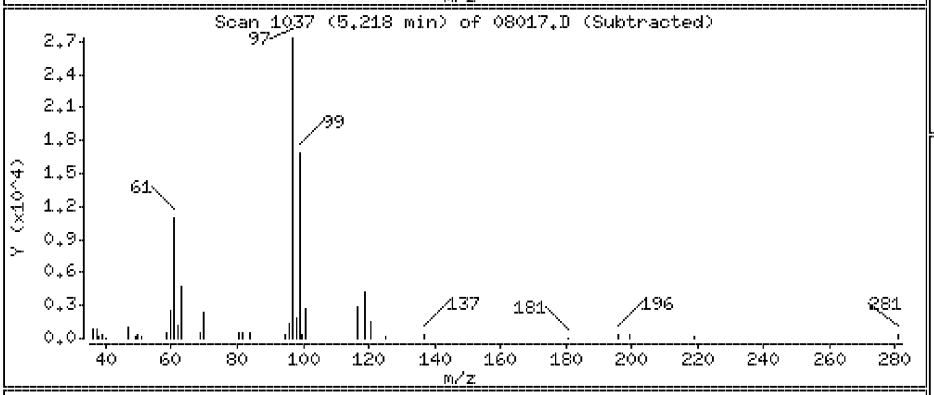
Column phase: J&W DB-5

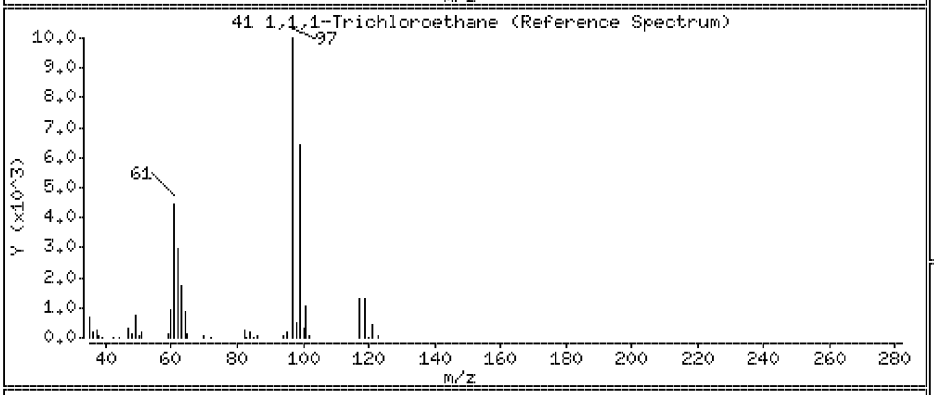
Column diameter: 0.32

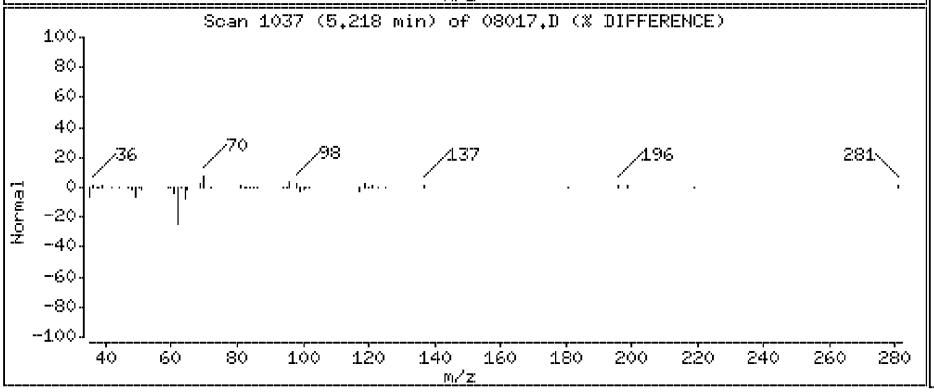
41 1,1,1-Trichloroethane

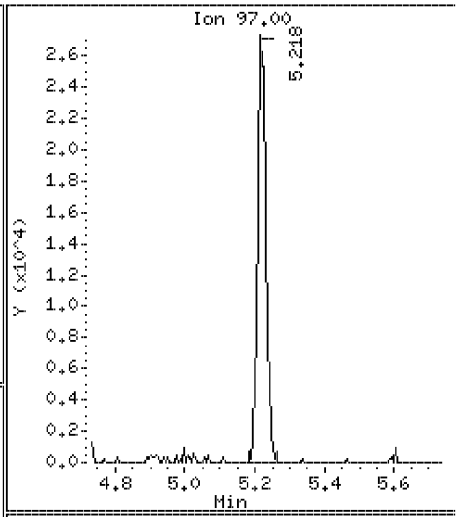
Concentration: 0.543 ppbv

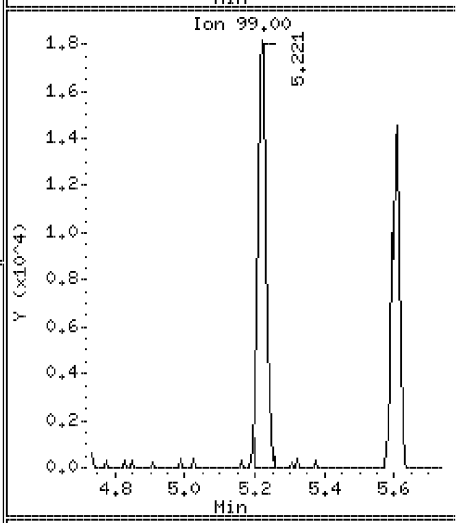


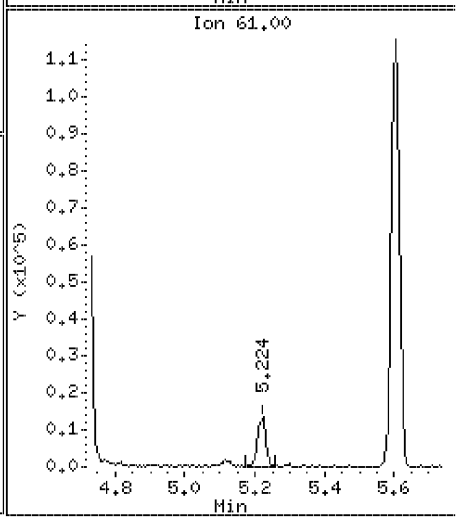












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

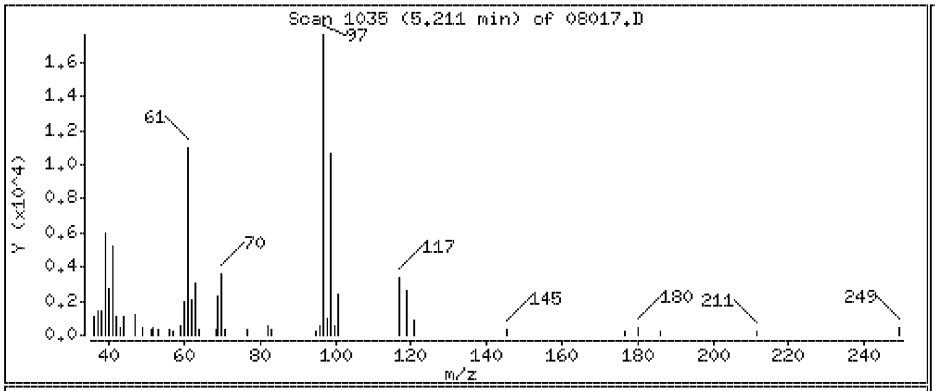
Operator: NCK

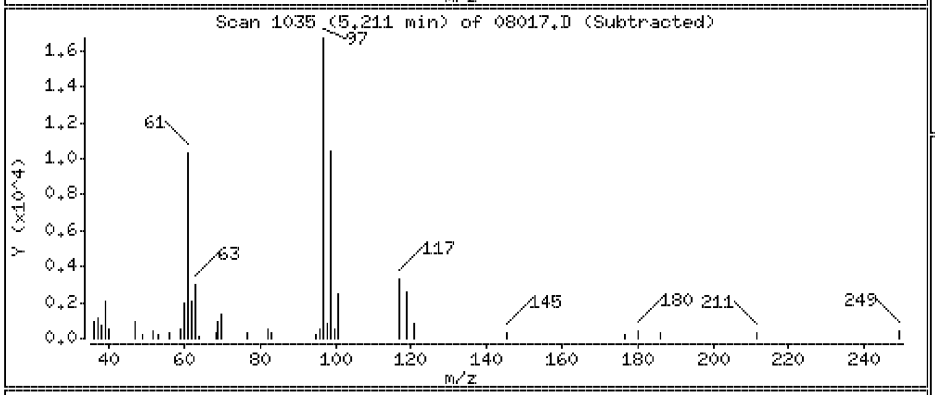
Column phase: J&W DB-5

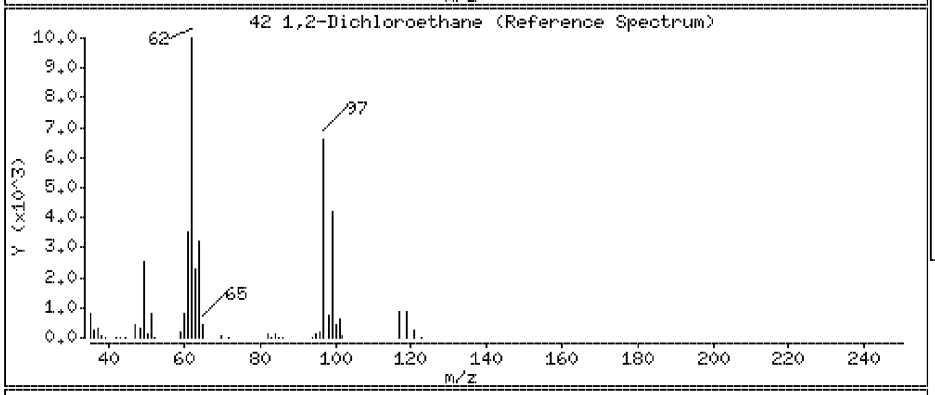
Column diameter: 0.32

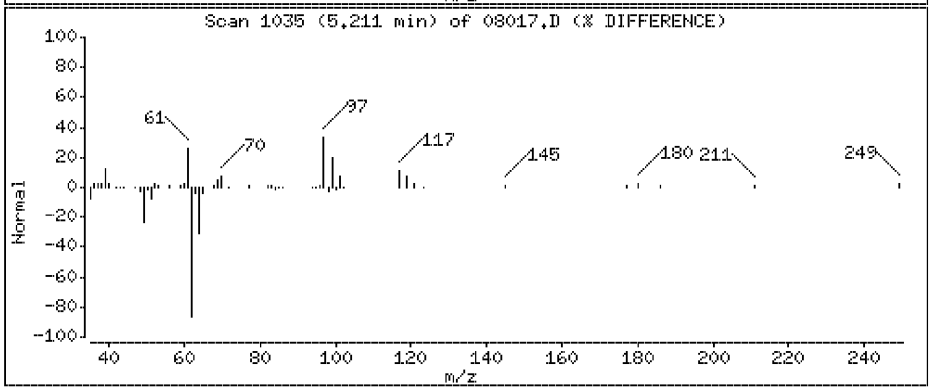
42 1,2-Dichloroethane

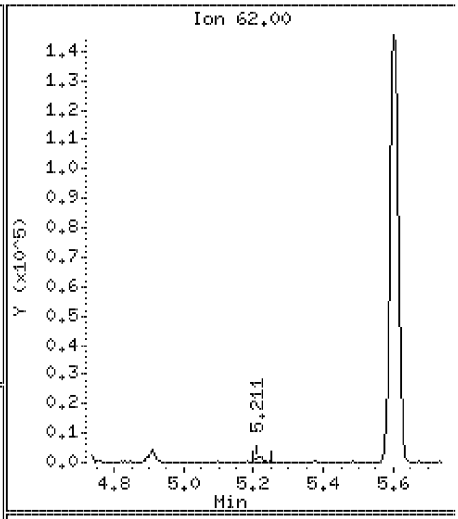
Concentration: 0.0416 ppbv

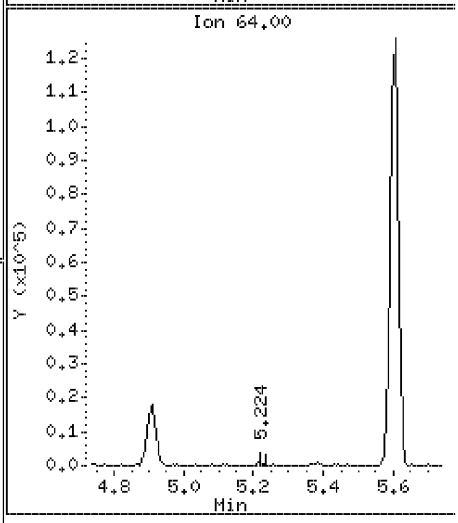












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

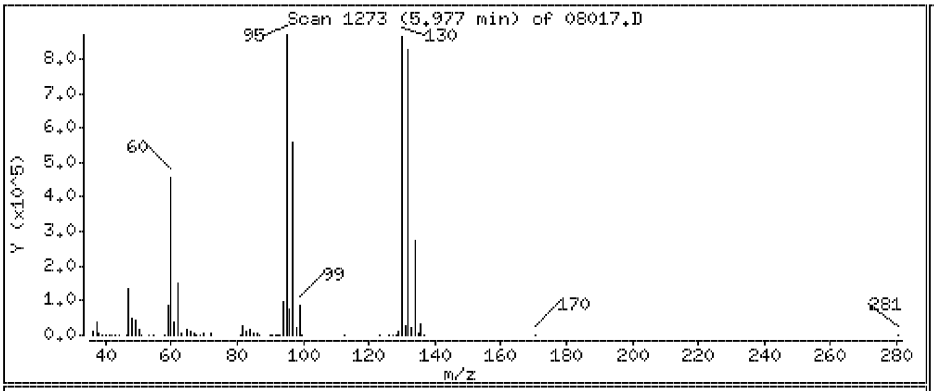
Operator: NCK

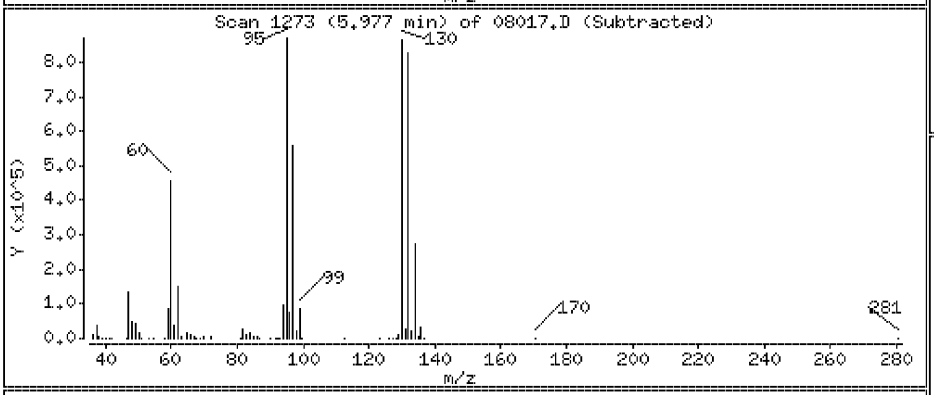
Column phase: J&W DB-5

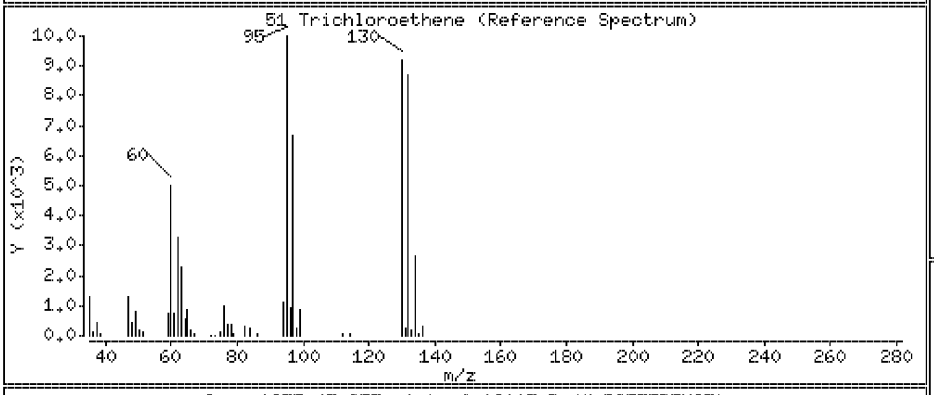
Column diameter: 0.32

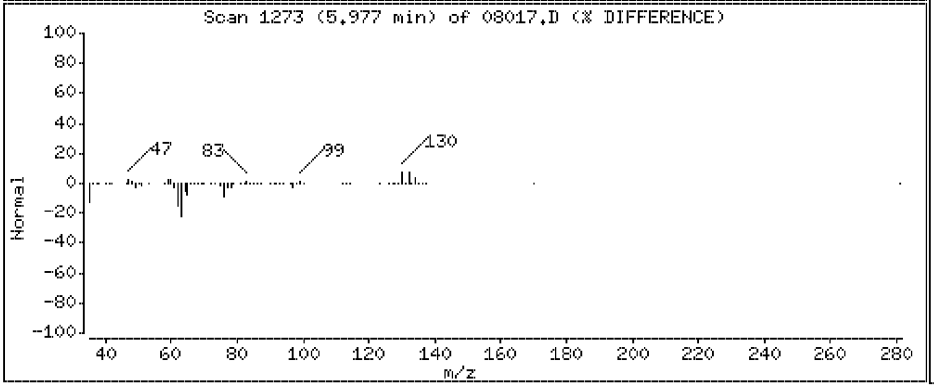
51 Trichloroethene

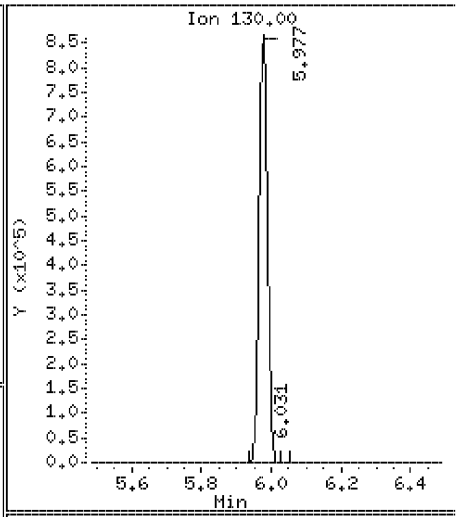
Concentration: 27.6 ppbv

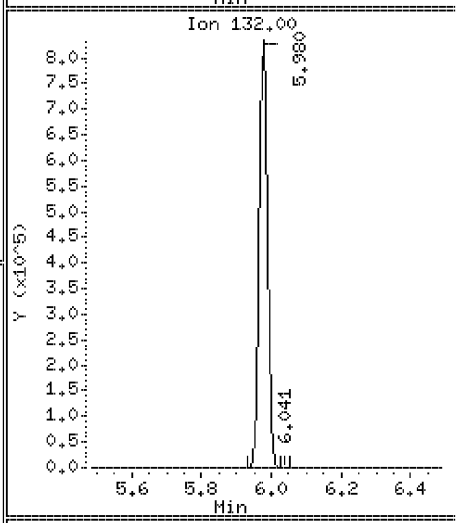


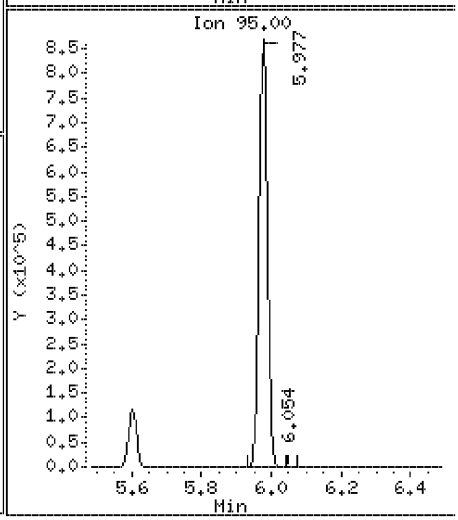












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

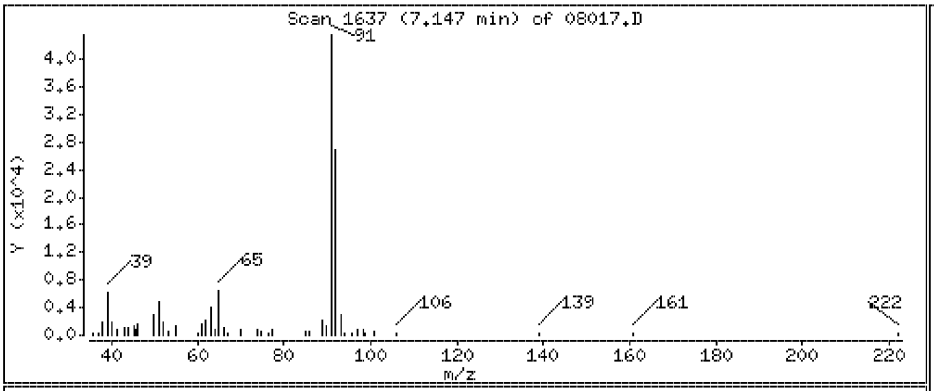
Operator: NCK

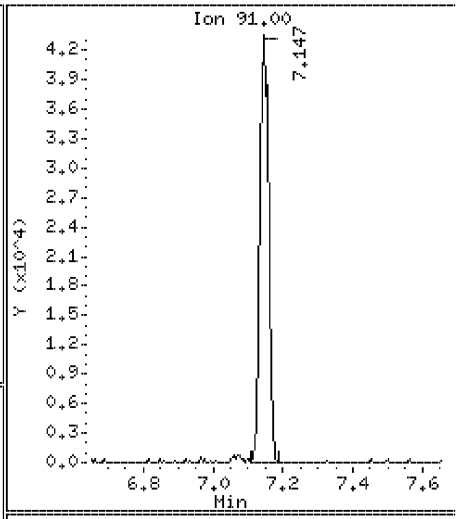
Column phase: J&W DB-5

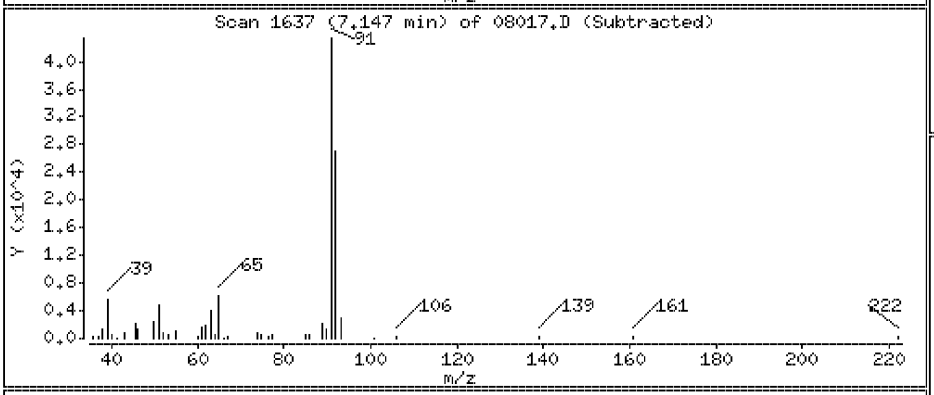
Column diameter: 0.32

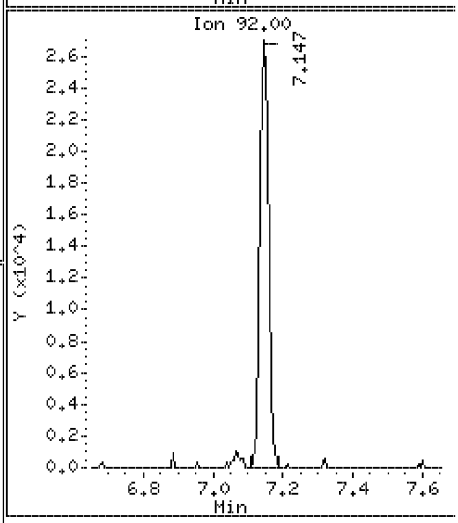
61 Toluene

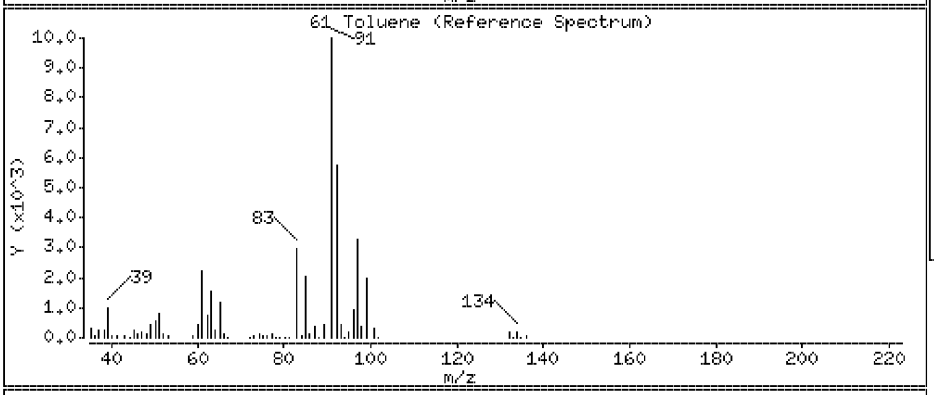
Concentration: 0.557 ppbv

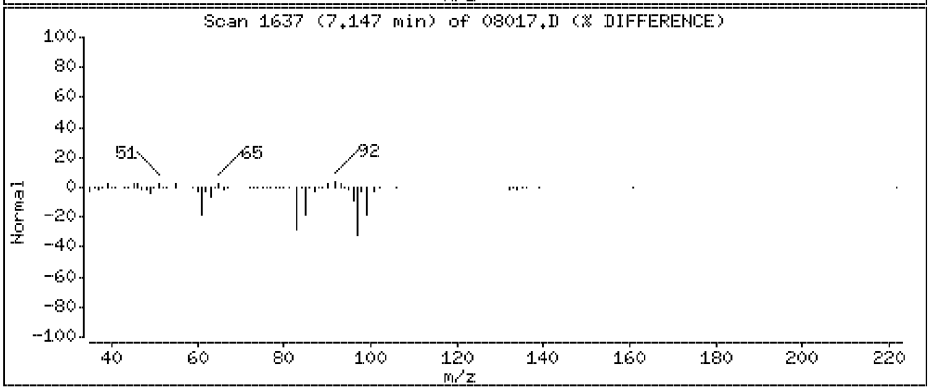












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

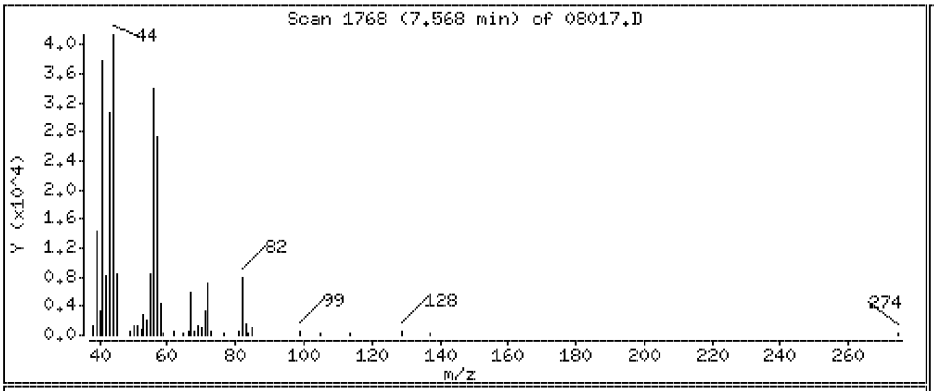
Operator: NCK

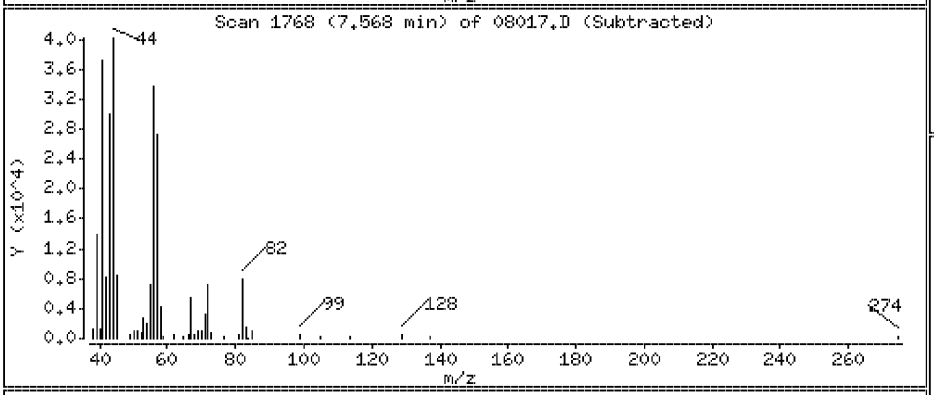
Column phase: J&W DB-5

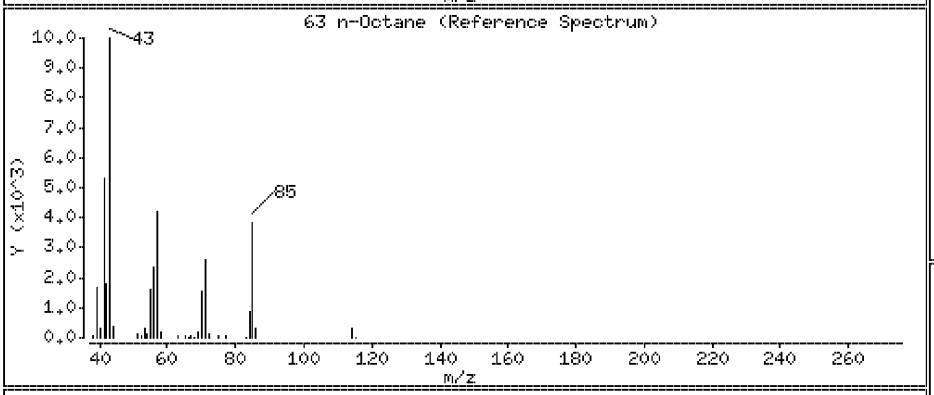
Column diameter: 0.32

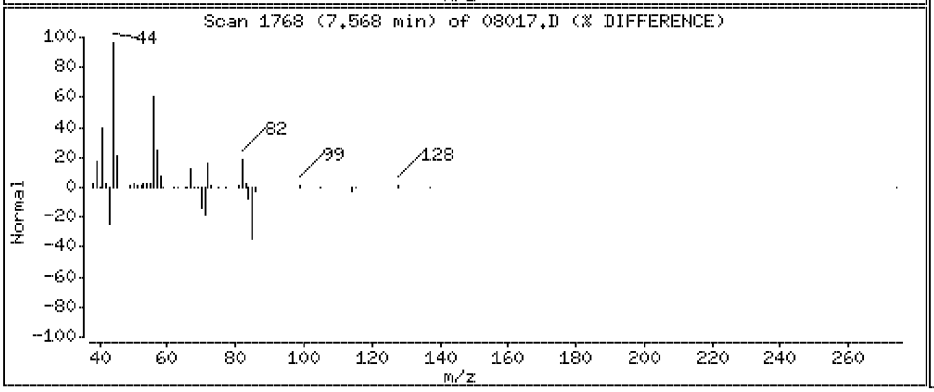
63 n-Octane

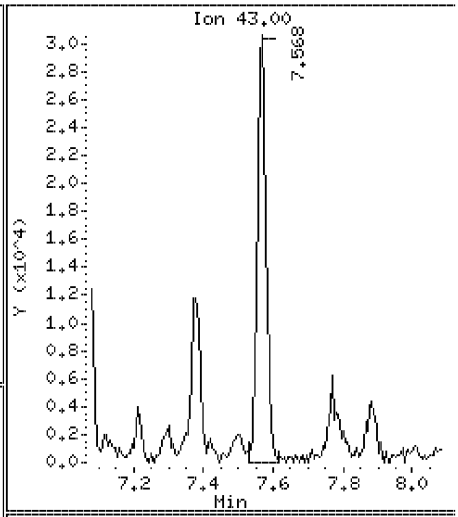
Concentration: 0.536 ppbv

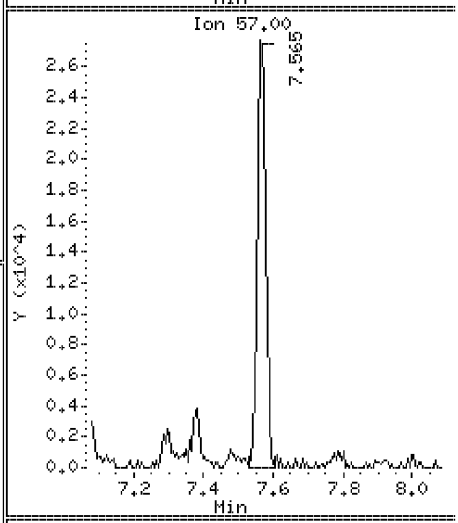


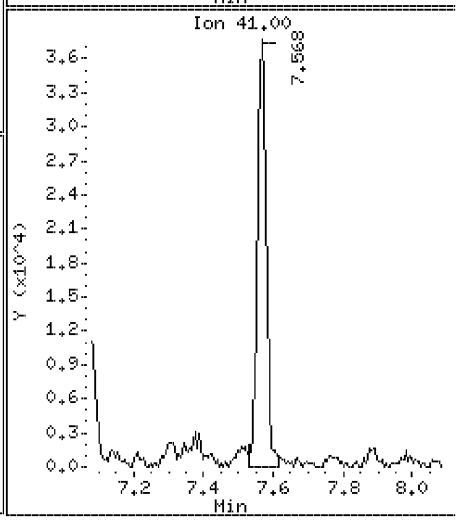












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

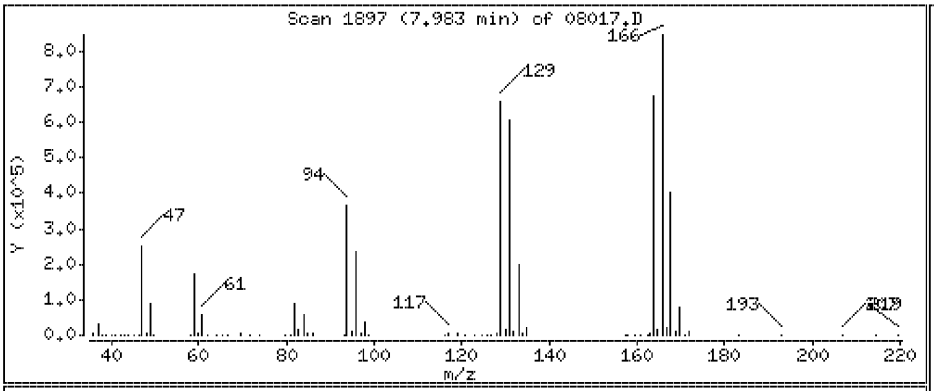
Operator: NCK

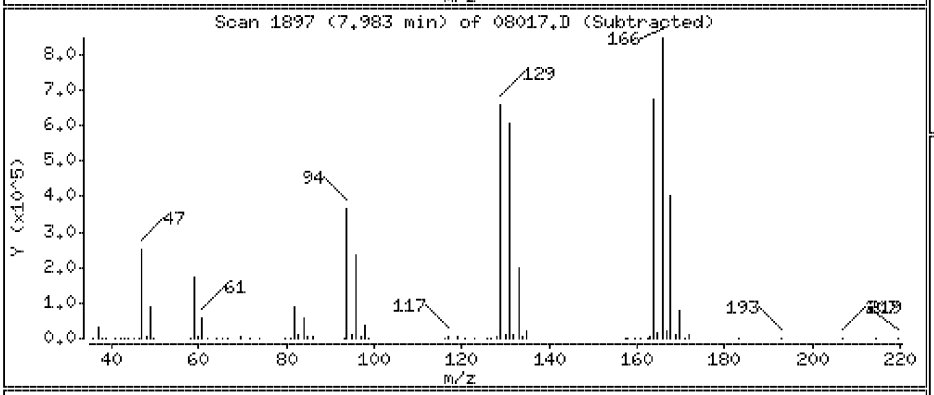
Column phase: J&W DB-5

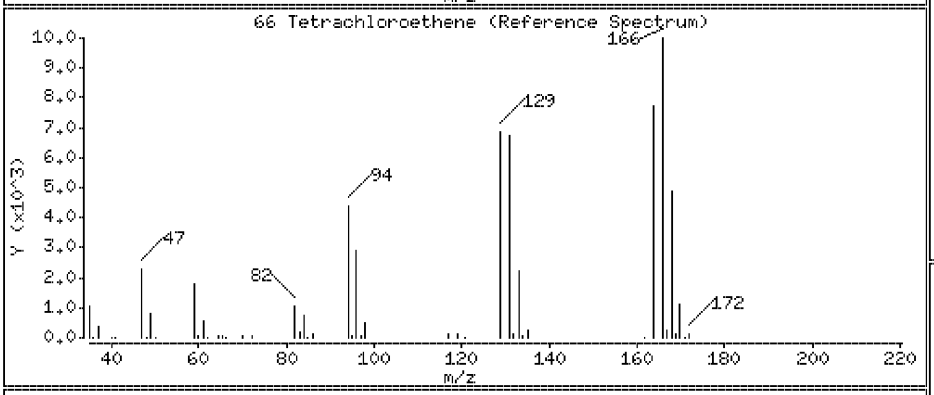
Column diameter: 0.32

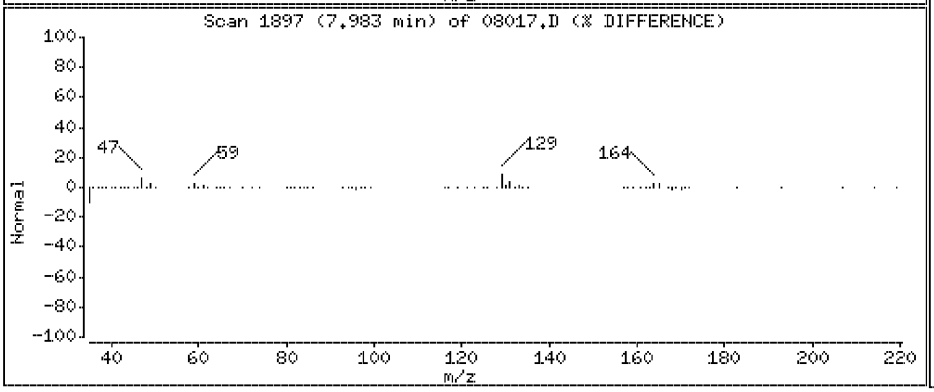
66 Tetrachloroethene

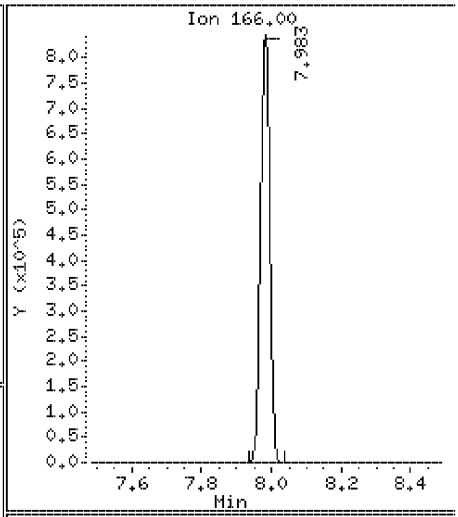
Concentration: 25.9 ppbv

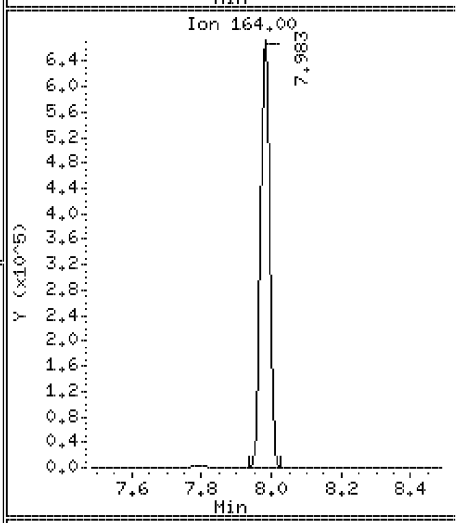


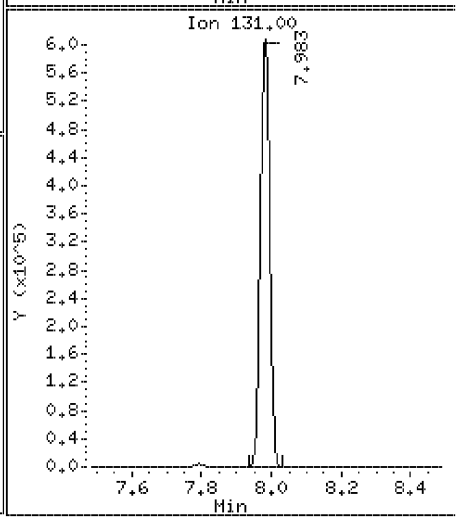












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

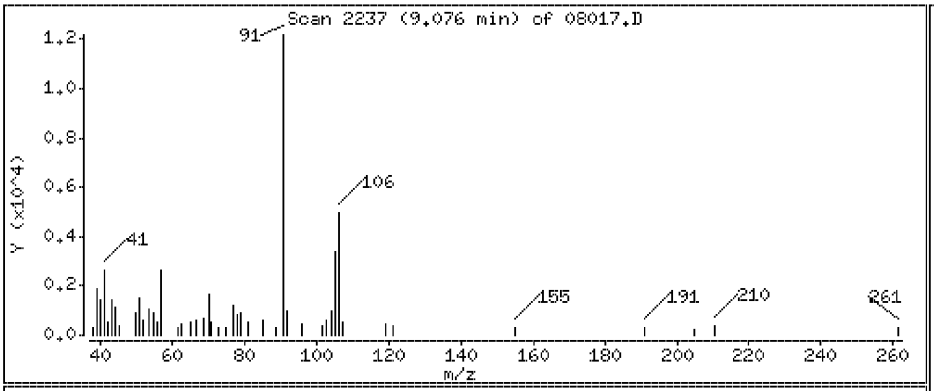
Operator: NCK

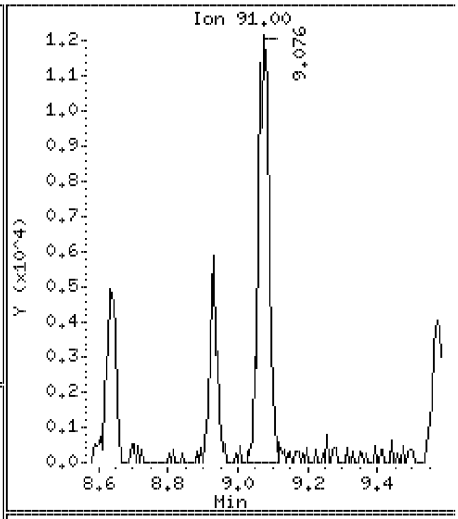
Column phase: J&W DB-5

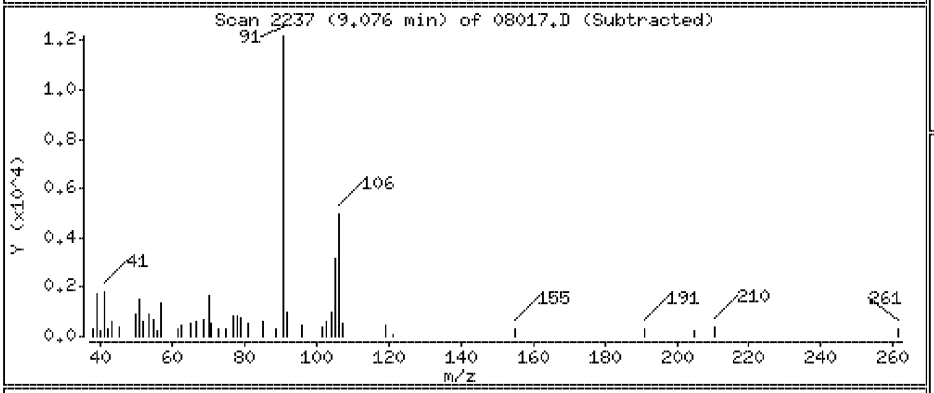
Column diameter: 0.32

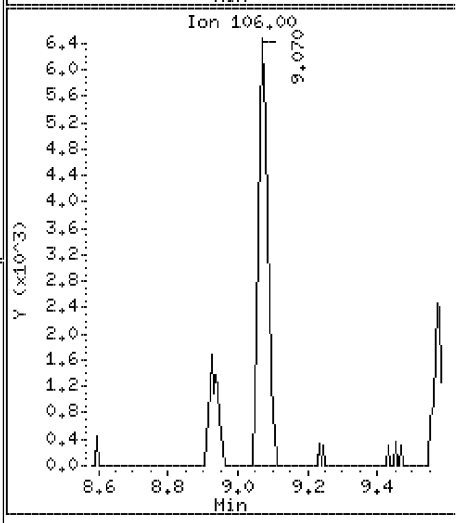
70 m&p-Xylene

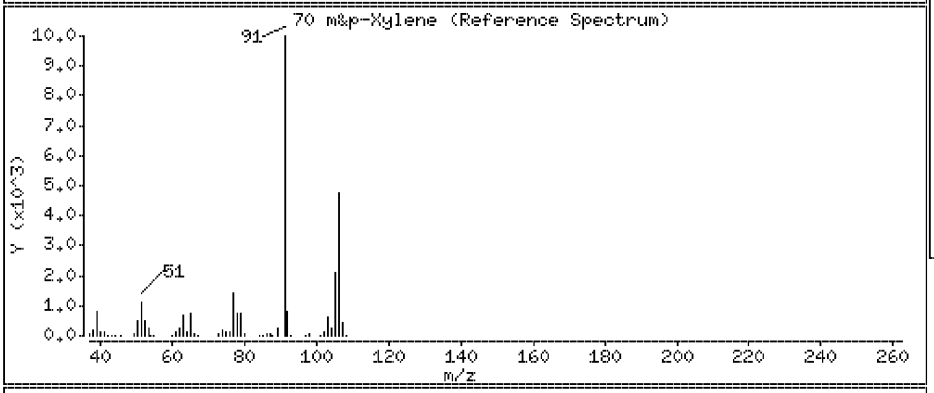
Concentration: 0.473 ppbv

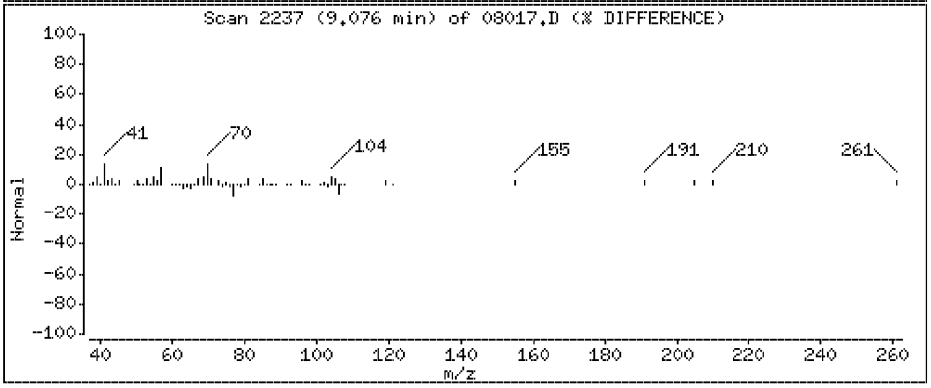












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

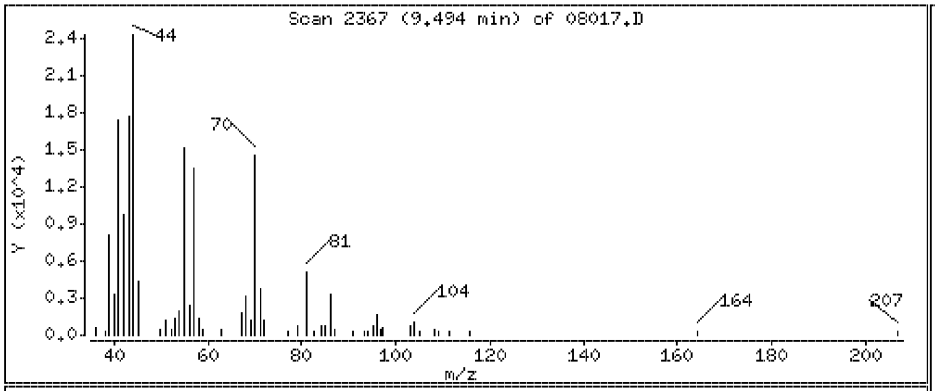
Operator: NCK

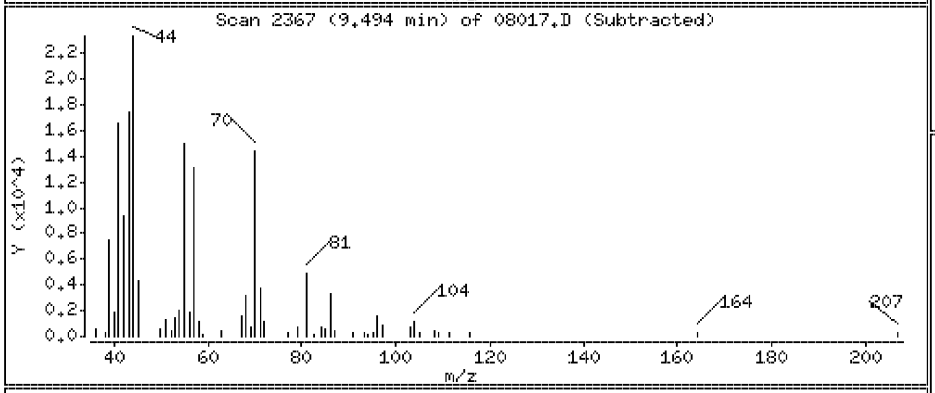
Column phase: J&W DB-5

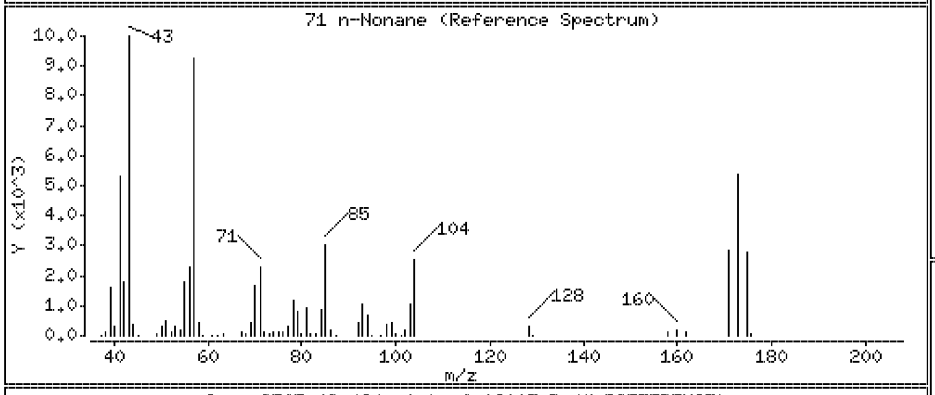
Column diameter: 0.32

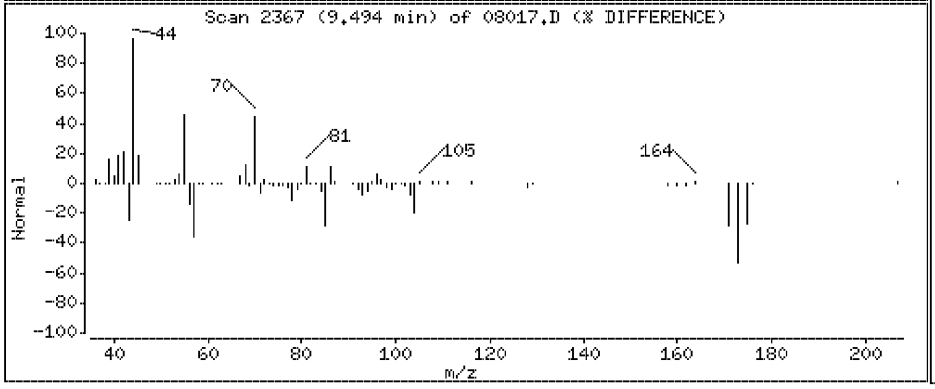
71 n-Nonane

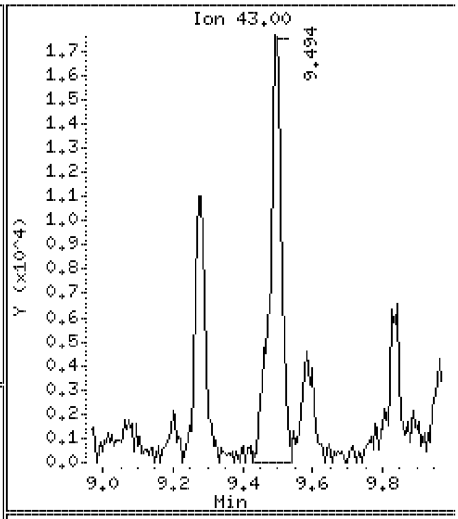
Concentration: 0.543 ppbv

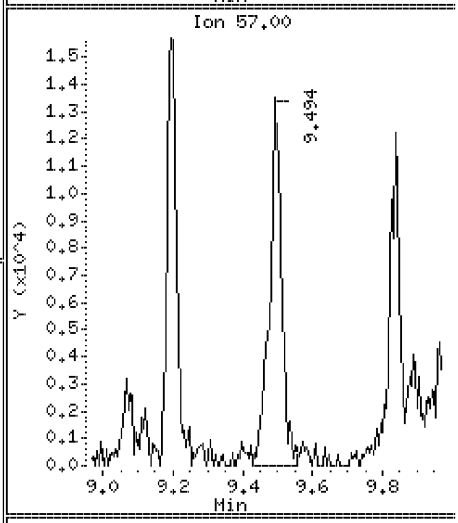


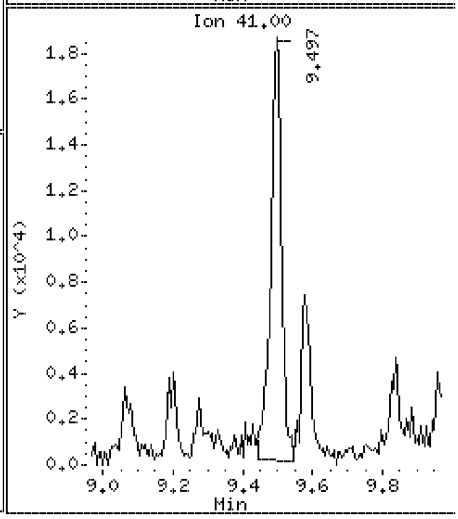












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

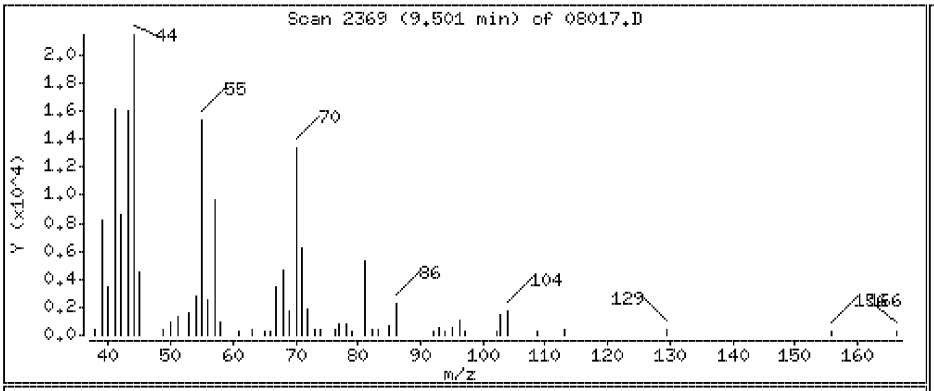
Operator: NCK

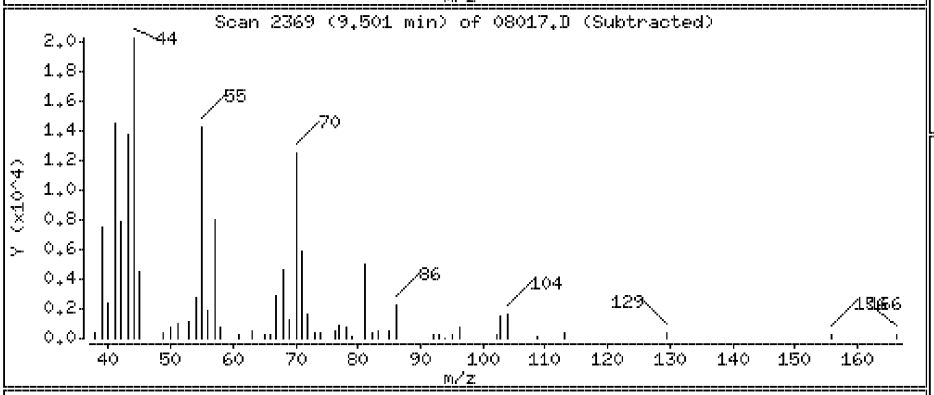
Column phase: J&W DB-5

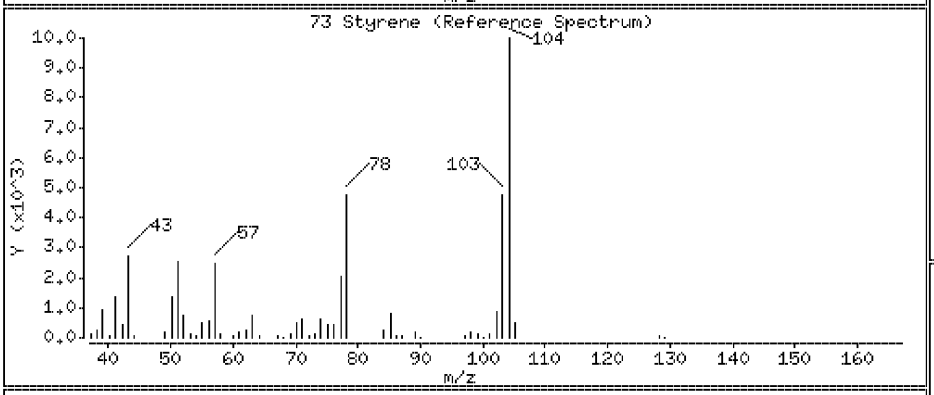
Column diameter: 0.32

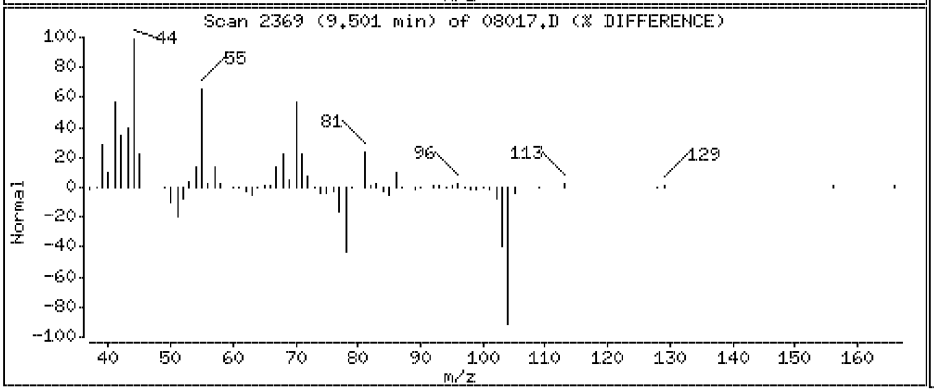
73 Styrene

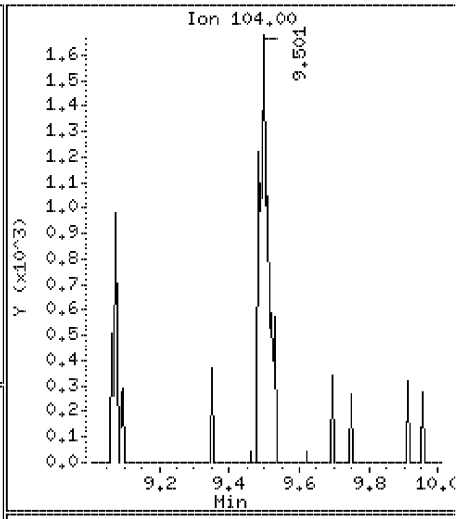
Concentration: 0.254 ppbv

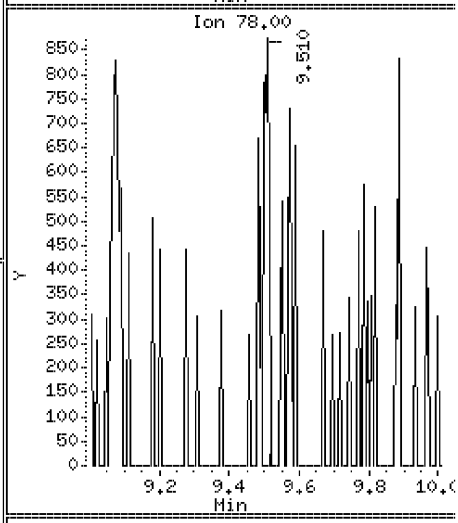


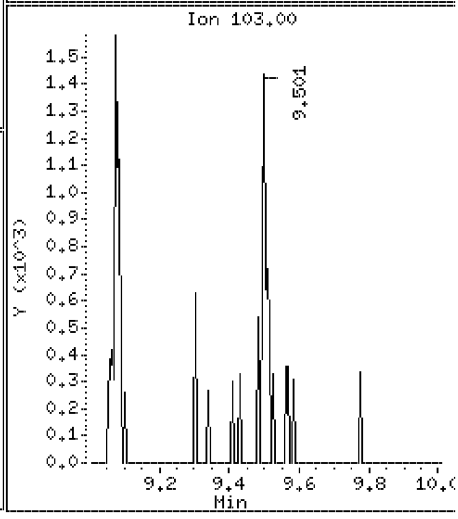












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

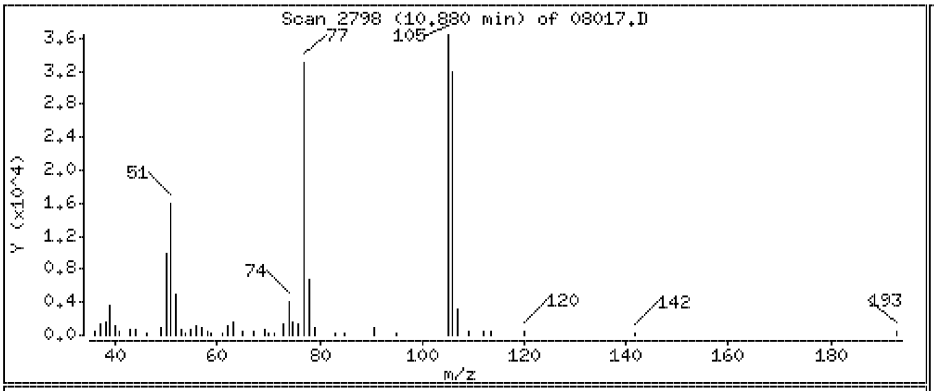
Operator: NCK

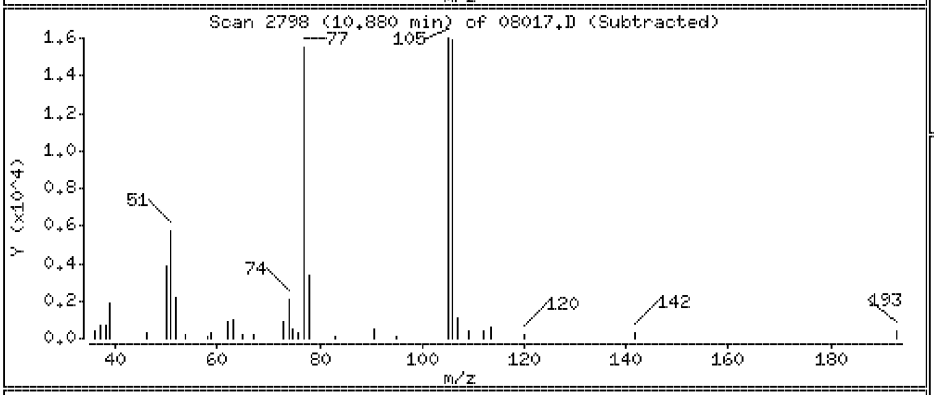
Column phase: J&W DB-5

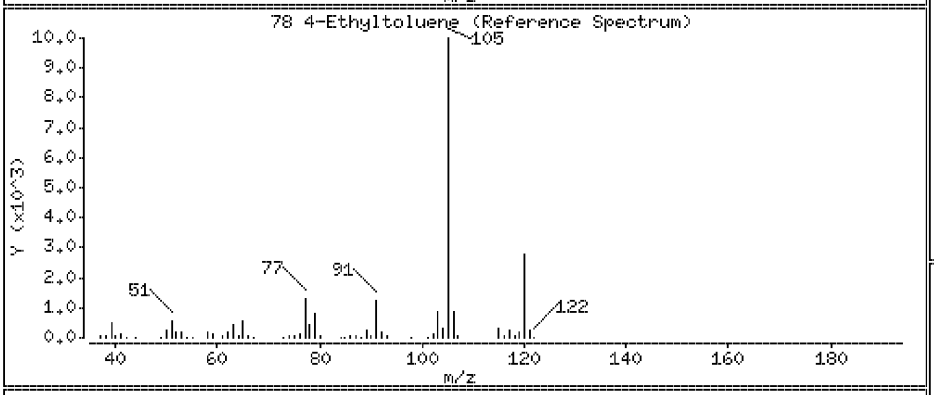
Column diameter: 0.32

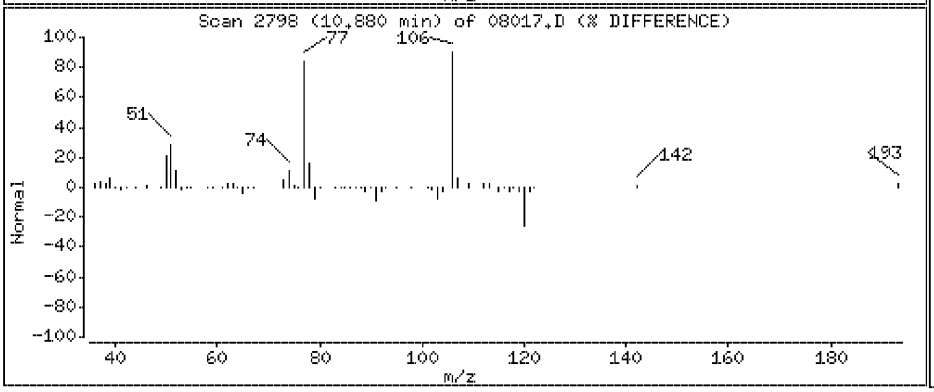
78 4-Ethyltoluene

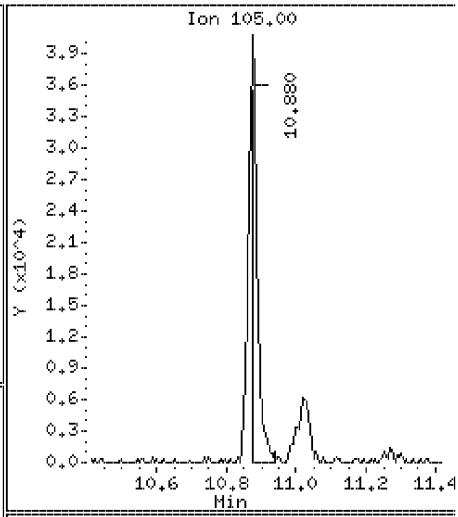
Concentration: 0.484 ppbv

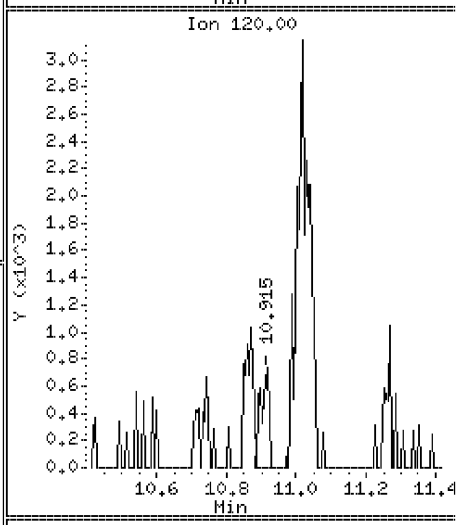


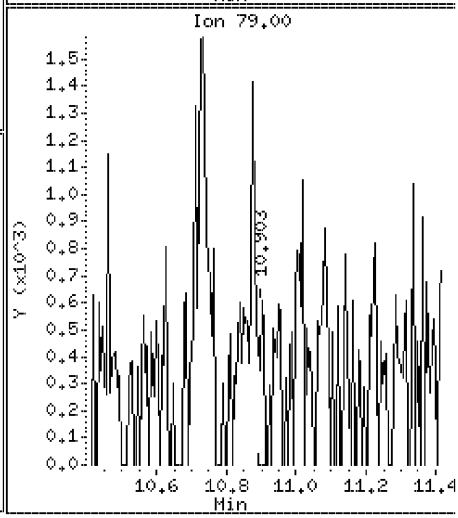












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

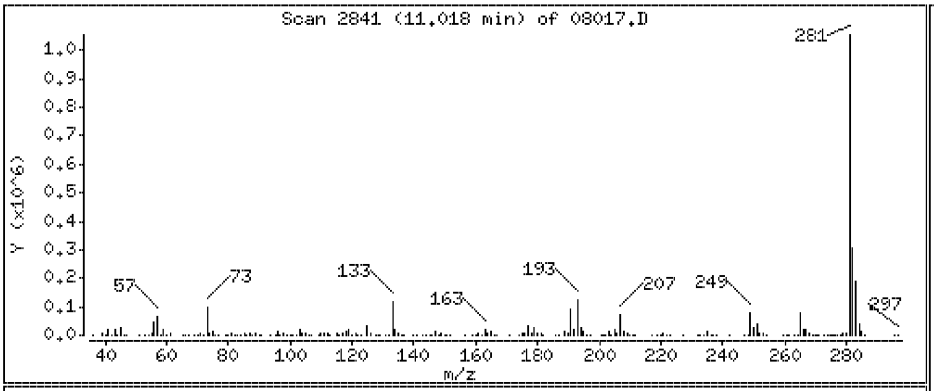
Operator: NCK

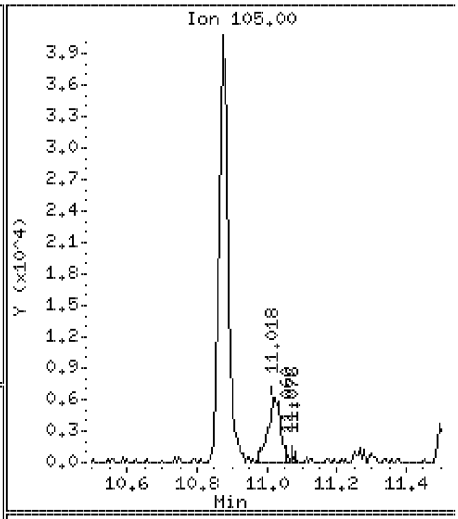
Column phase: J&W DB-5

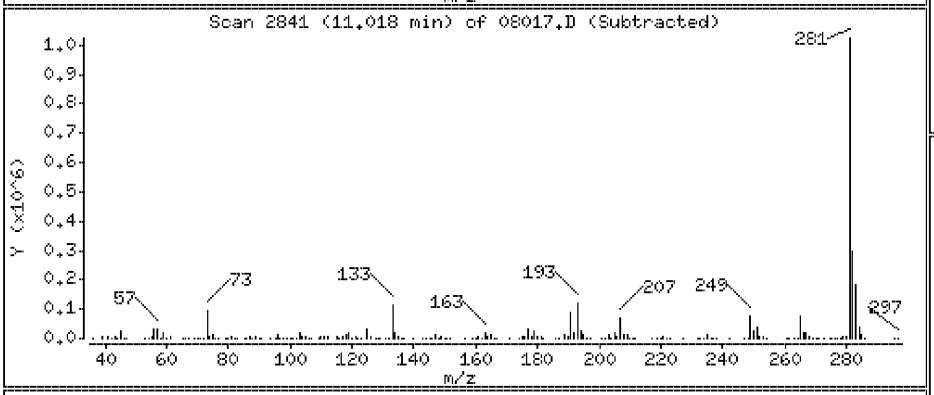
Column diameter: 0.32

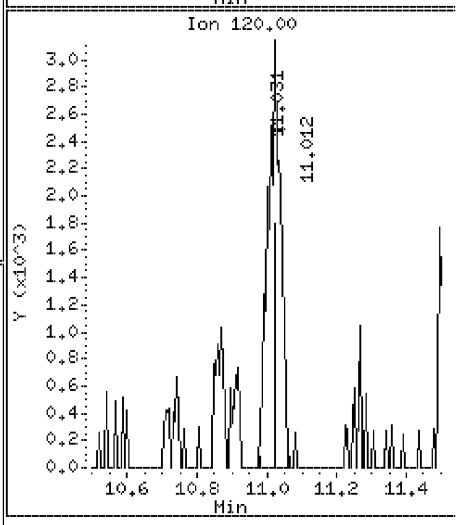
79 1,3,5-Trimethylbenzene

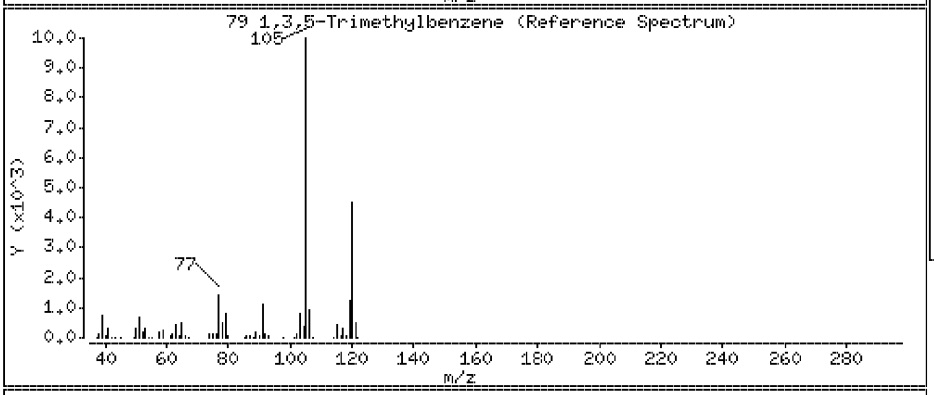
Concentration: 0.348 ppbv

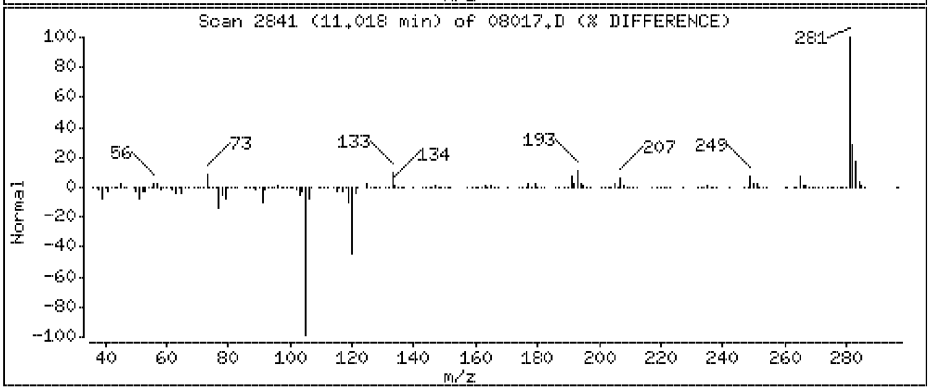












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

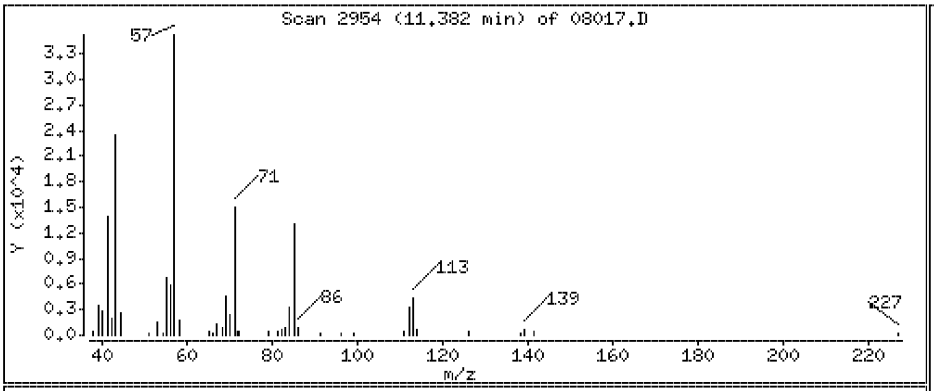
Operator: NCK

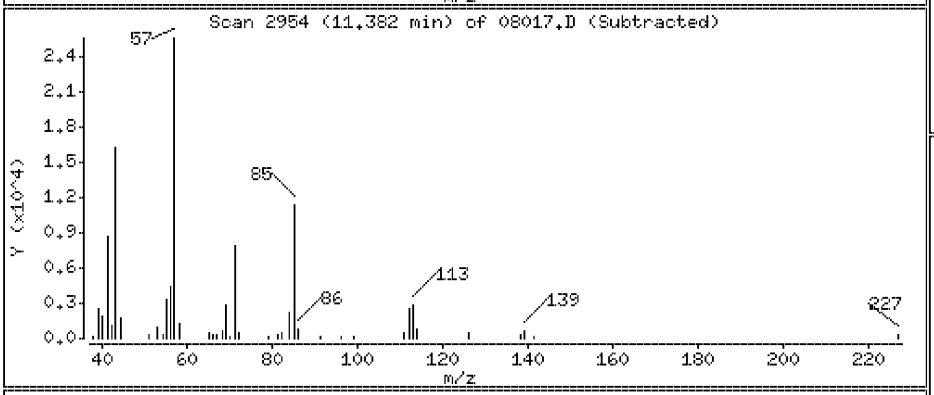
Column phase: J&W DB-5

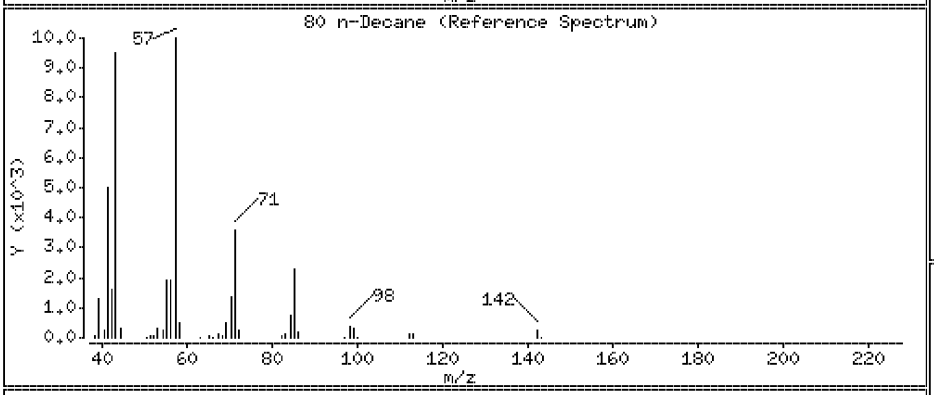
Column diameter: 0.32

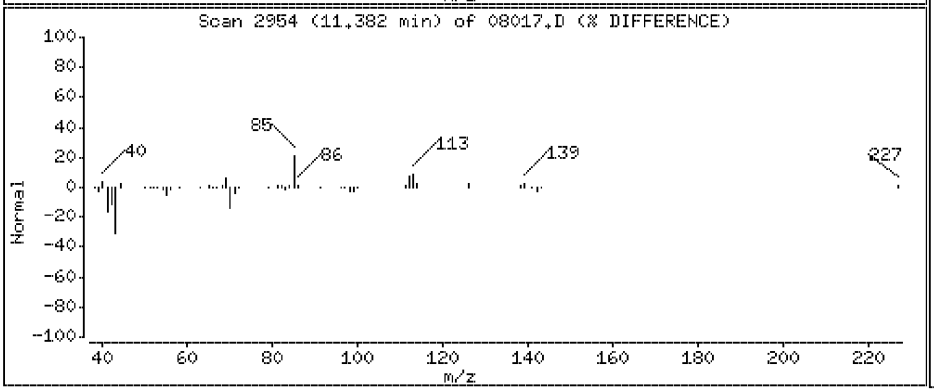
80 n-Decane

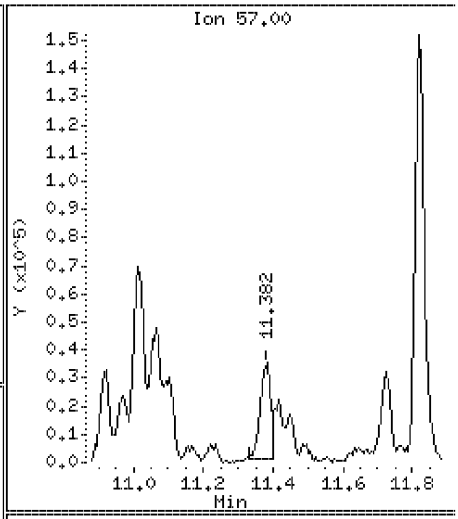
Concentration: 0.854 ppbv

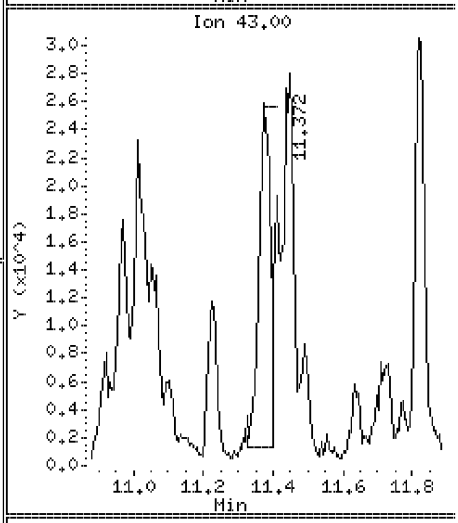


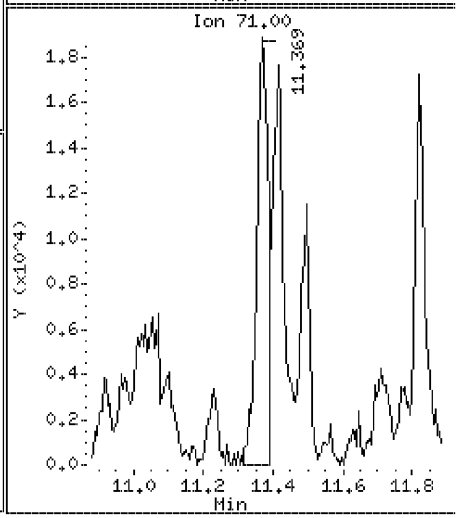












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

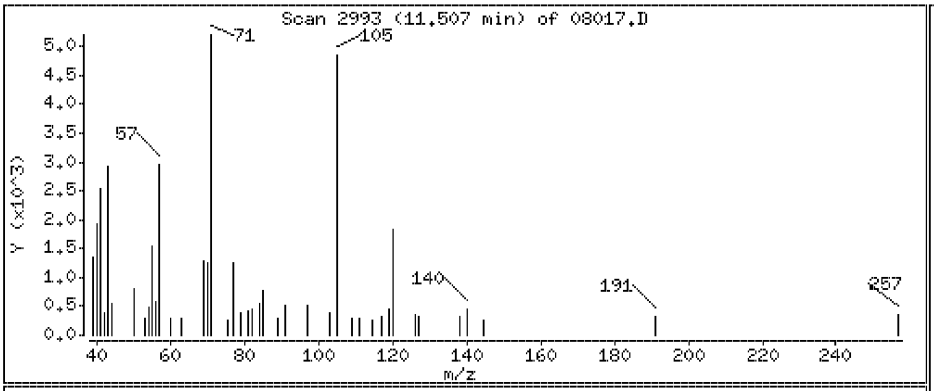
Operator: NCK

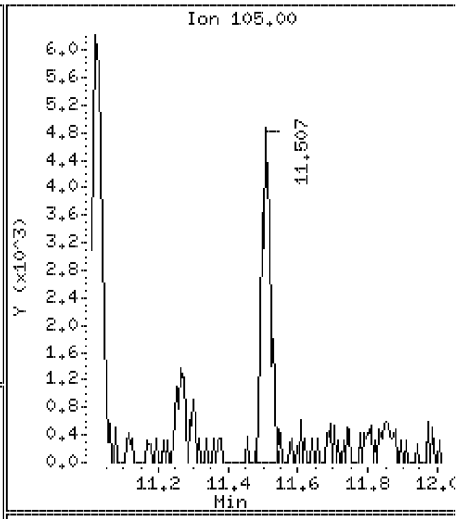
Column phase: J&W DB-5

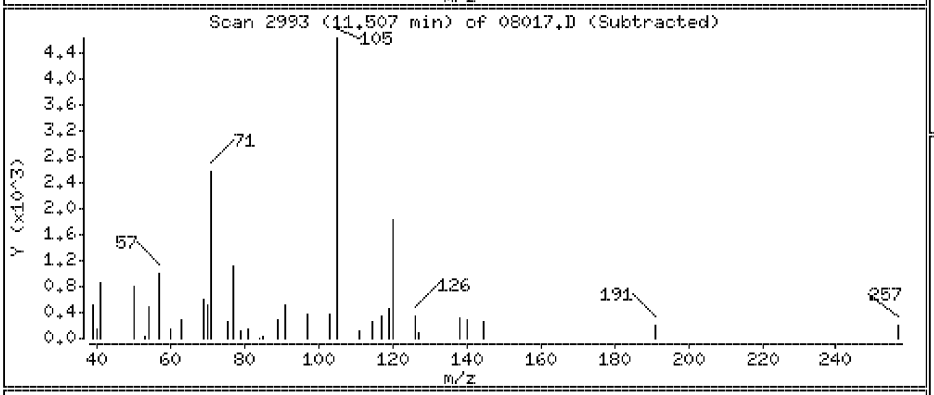
Column diameter: 0.32

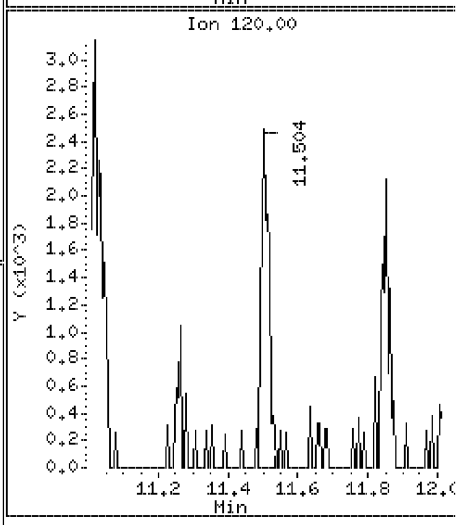
82 1,2,4-Trimethylbenzene

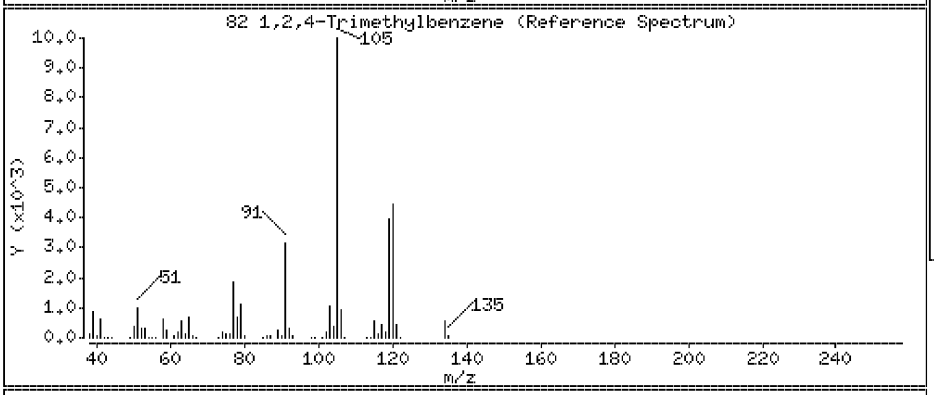
Concentration: 0.286 ppbv

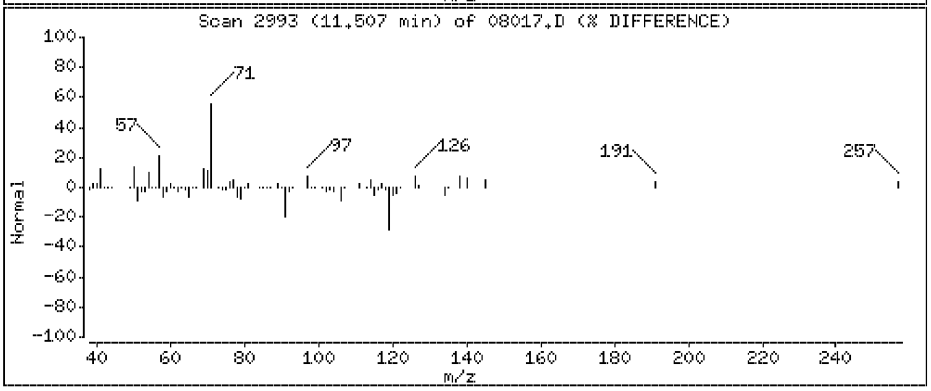












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

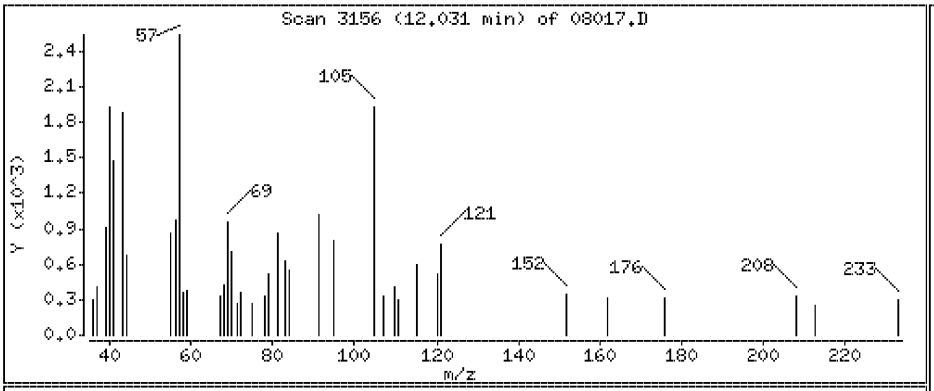
Operator: NCK

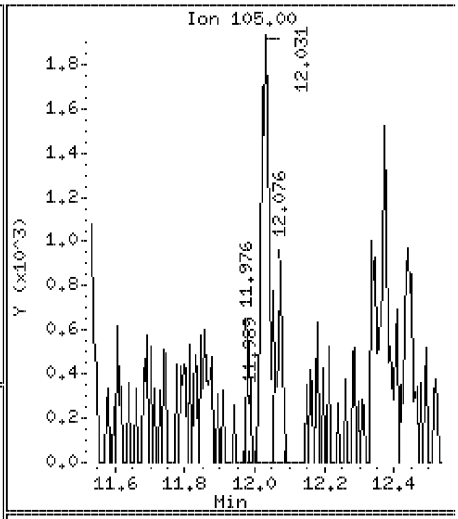
Column phase: J&W DB-5

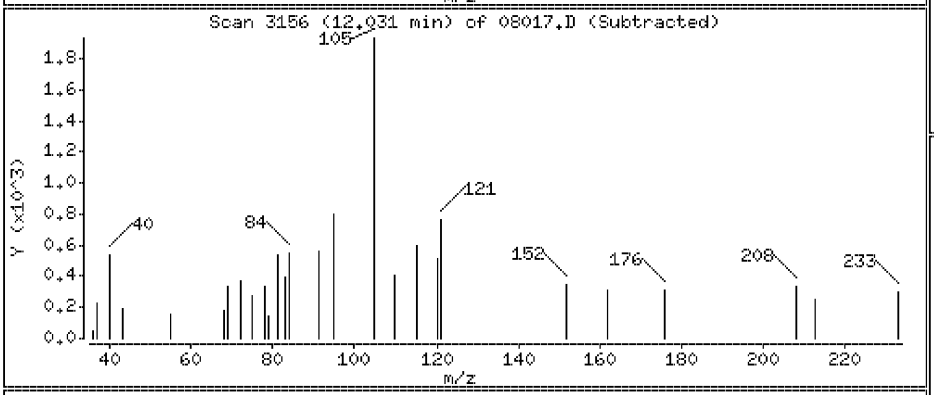
Column diameter: 0.32

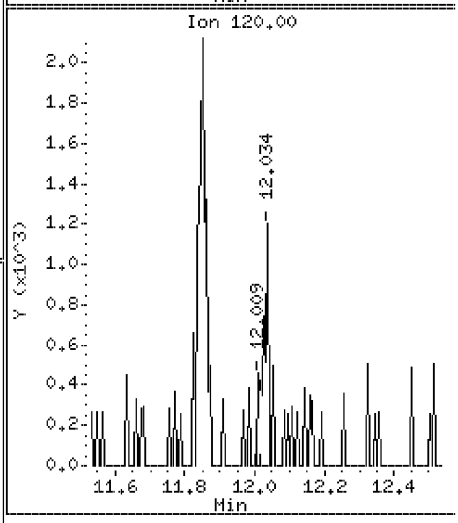
89 1,2,3-Trimethylbenzene

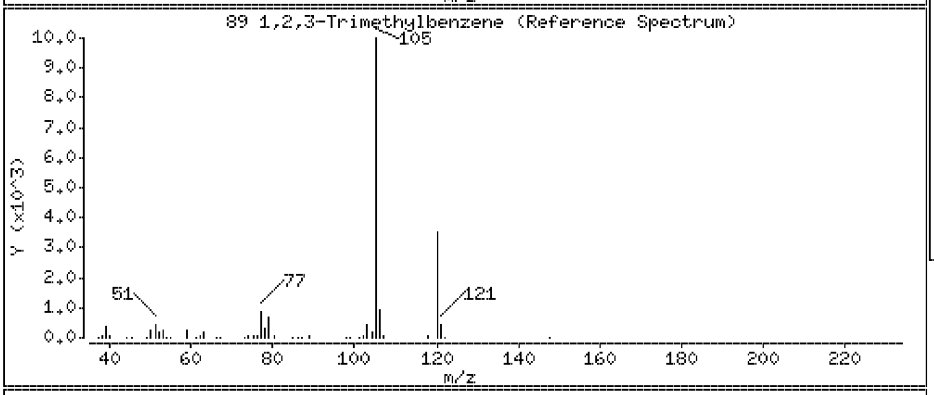
Concentration: 0.280 ppbv

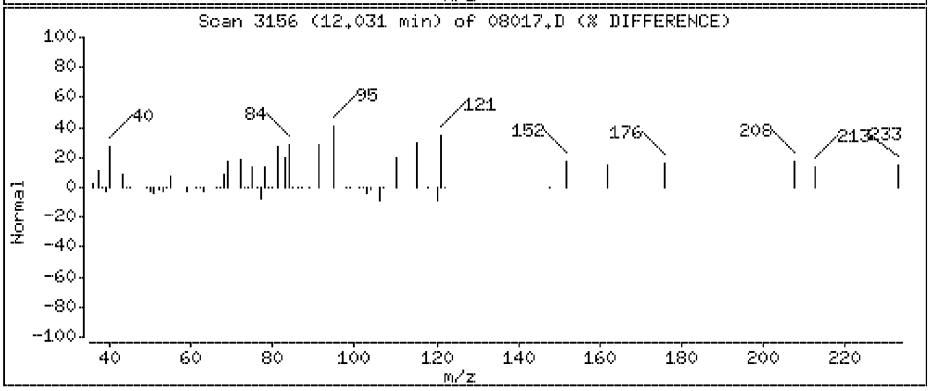












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08017.D

Date : 21-MAR-2017 16:47

Client ID:

Instrument: 10airB.i

Sample Info:

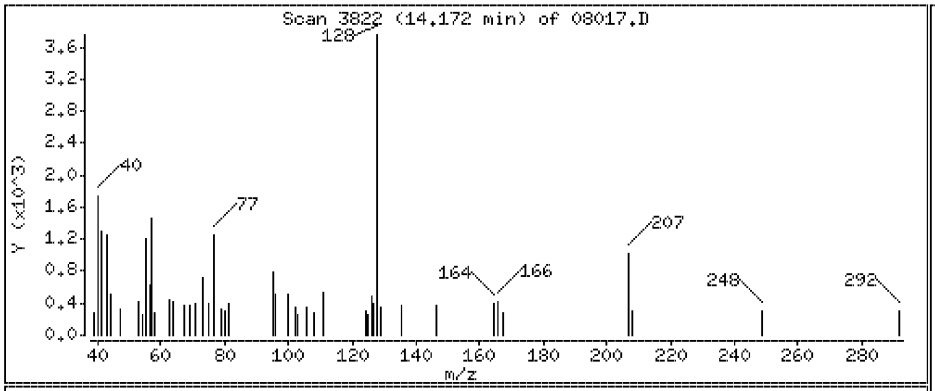
Operator: NCK

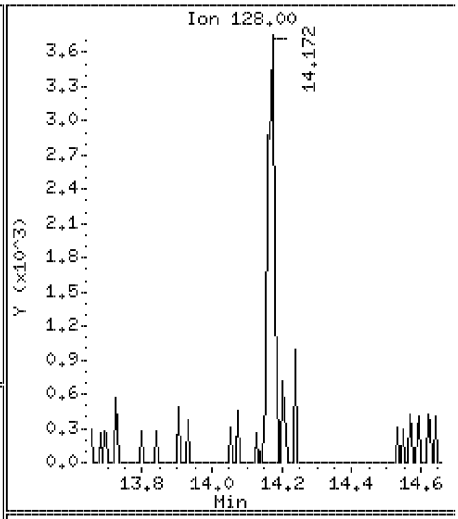
Column phase: J&W DB-5

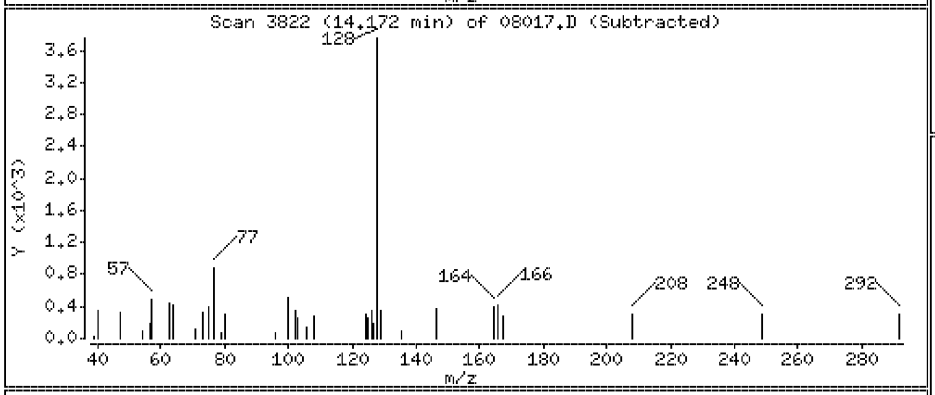
Column diameter: 0.32

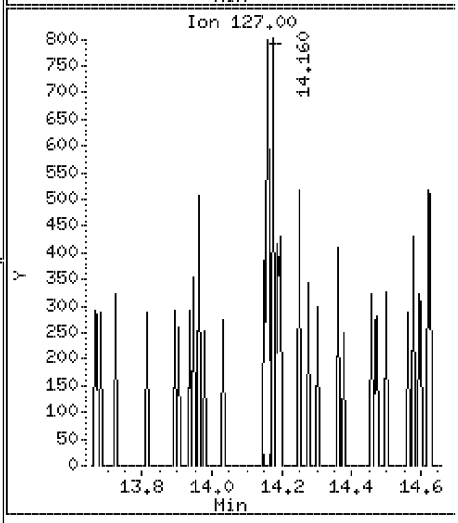
94 Naphthalene

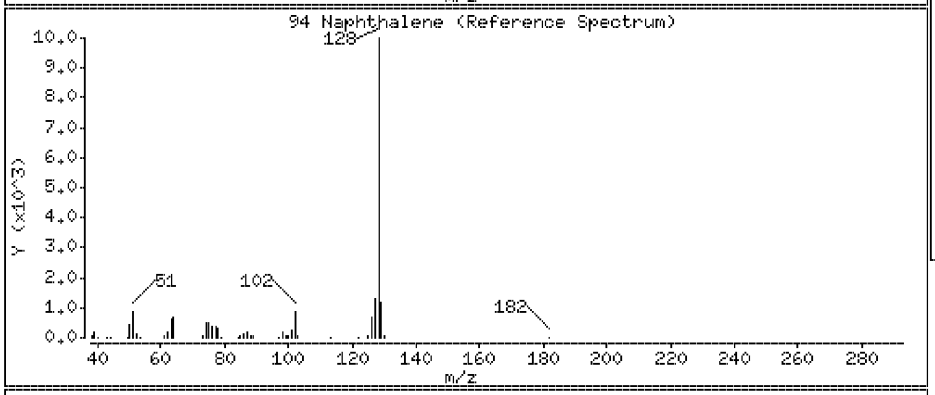
Concentration: 0.804 ppbv

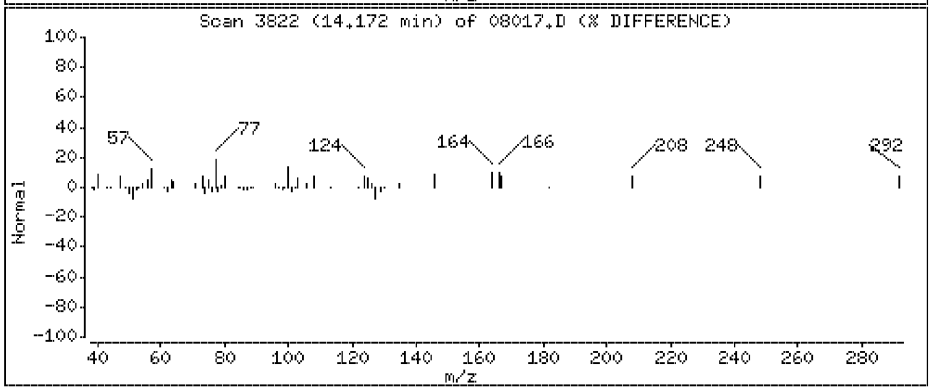






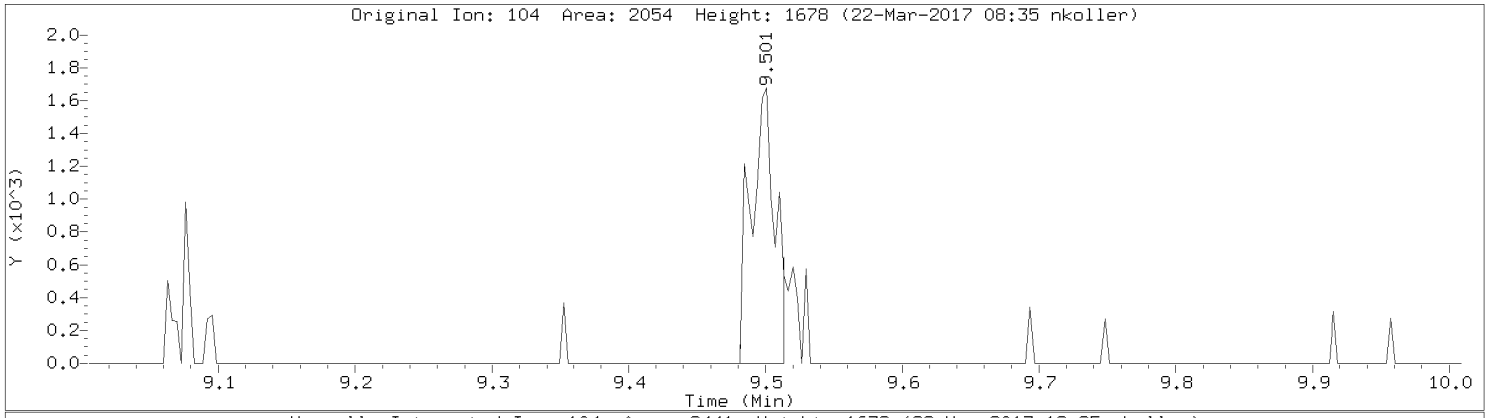


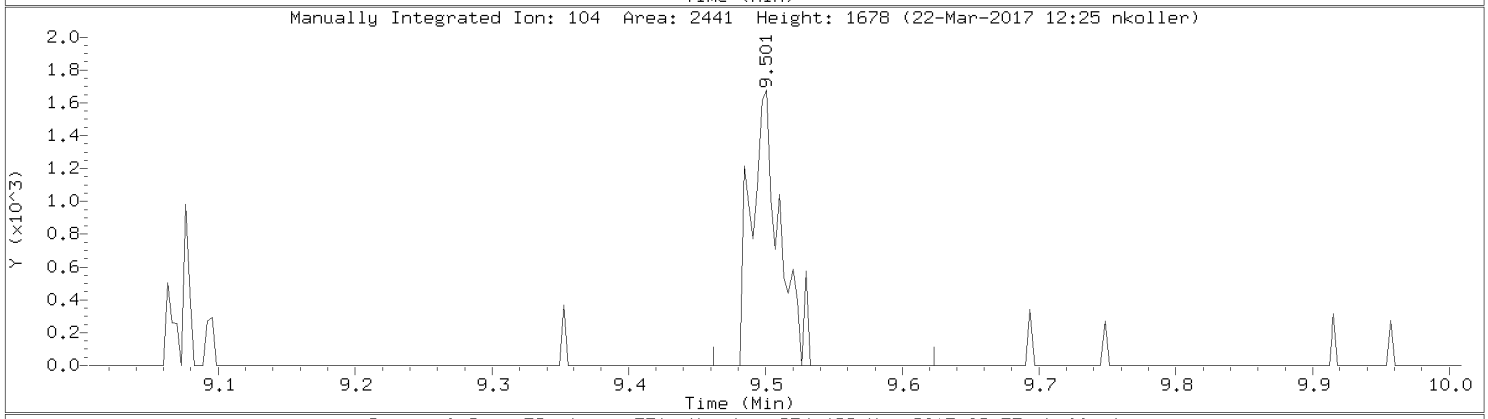


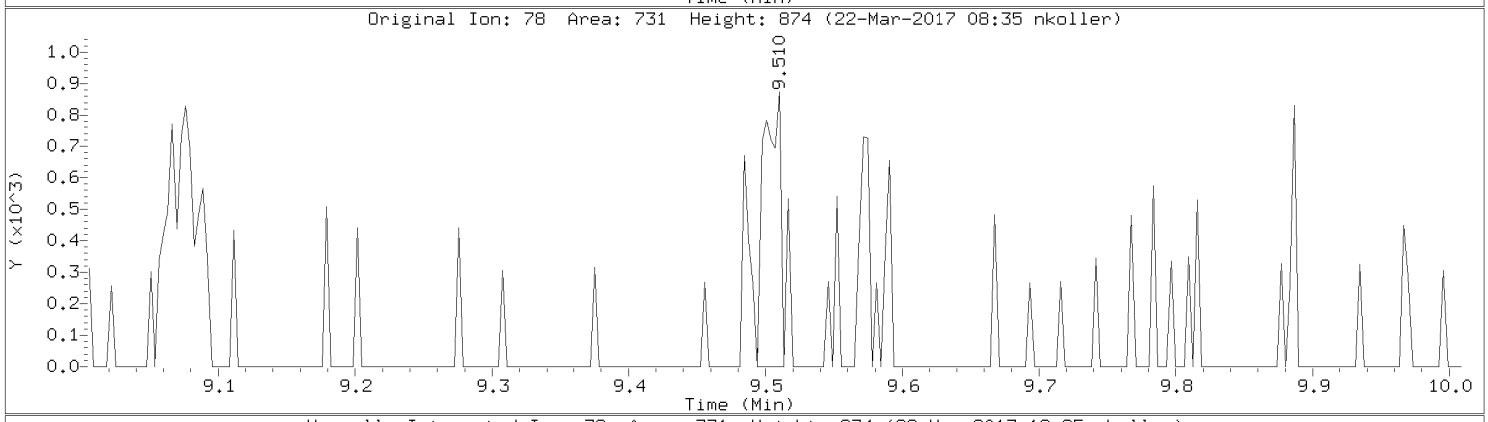


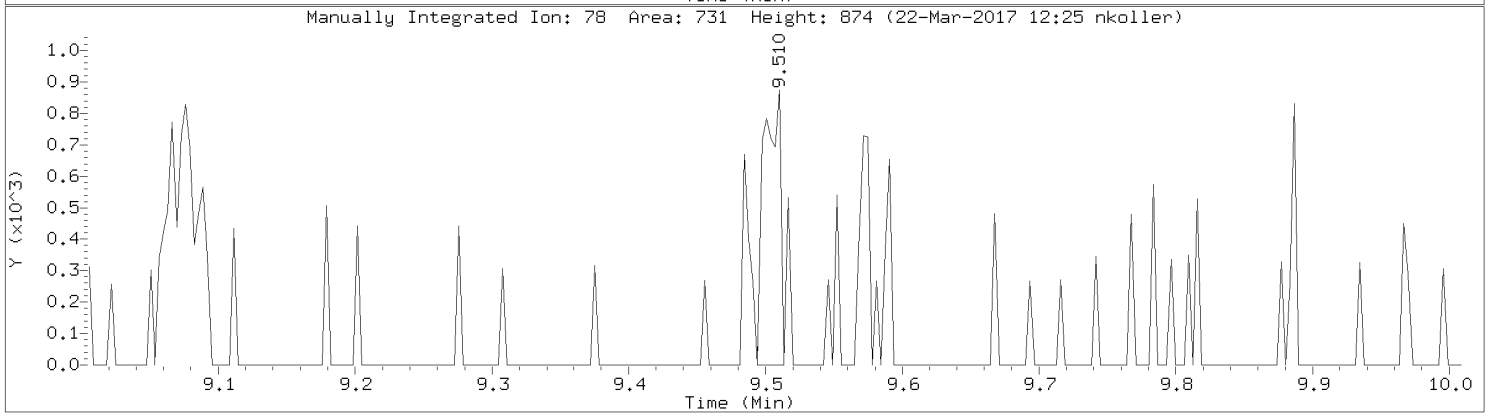
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08017.D
Injection Date: 21-MAR-2017 16:47
Instrument: 10airB.i
Lab Sample ID: 10381035007

Compound: Styrene
CAS Number: 100-42-5

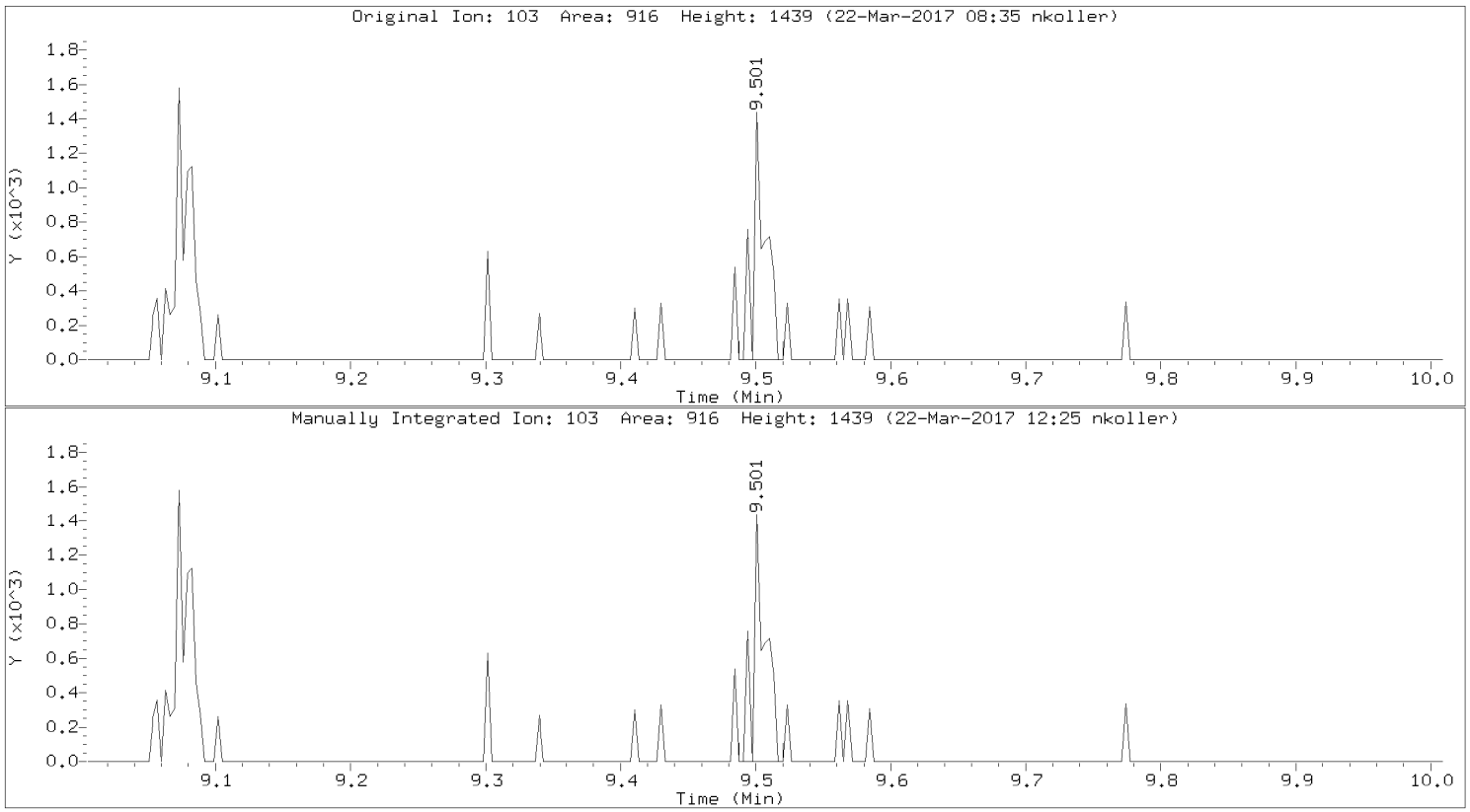






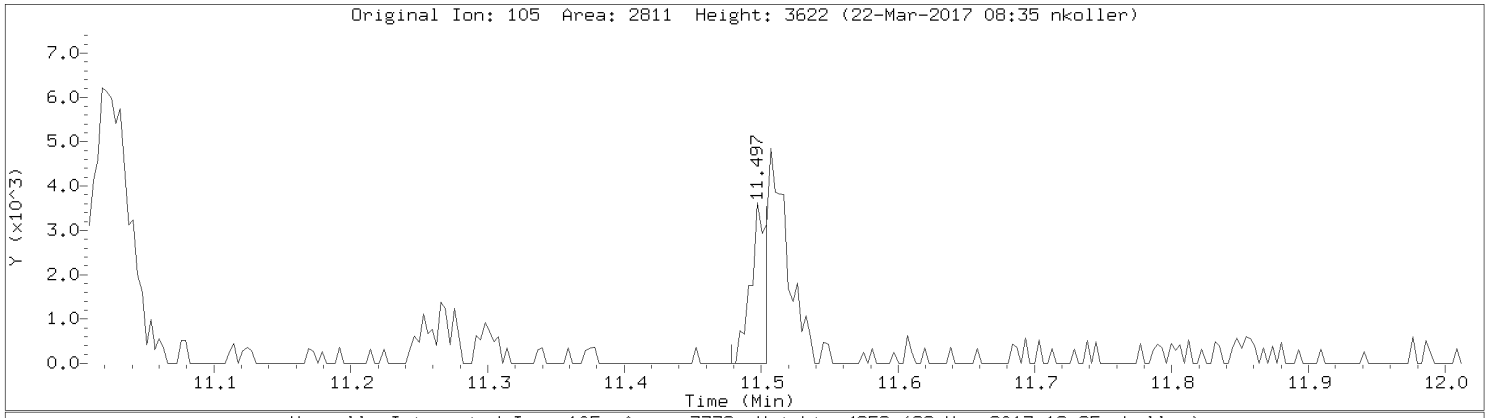


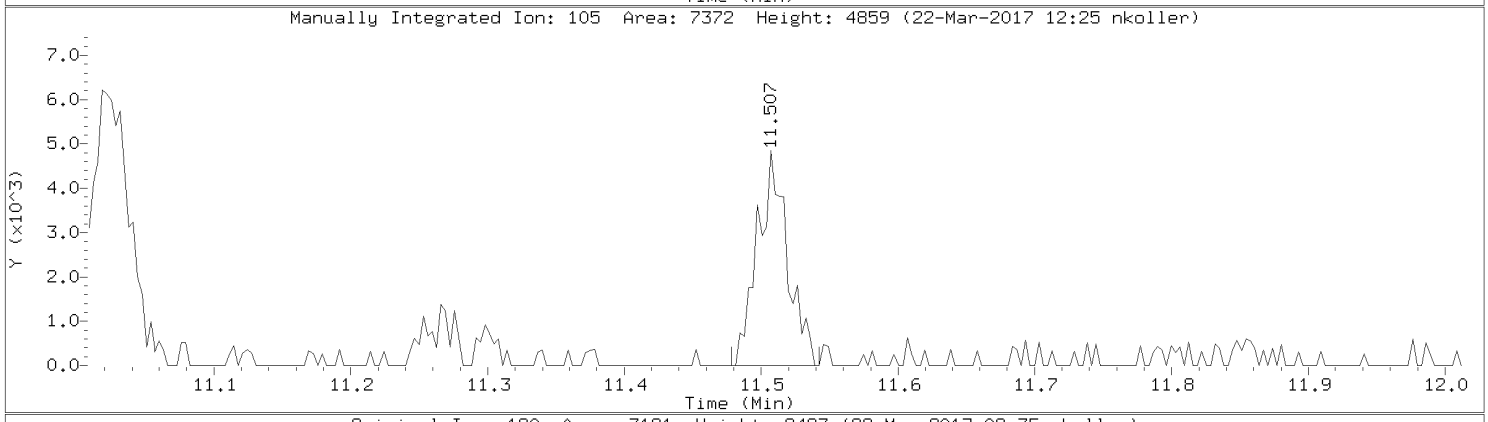
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08017.D
Injection Date: 21-MAR-2017 16:47
Instrument: 10airB.i
Lab Sample ID: 10381035007

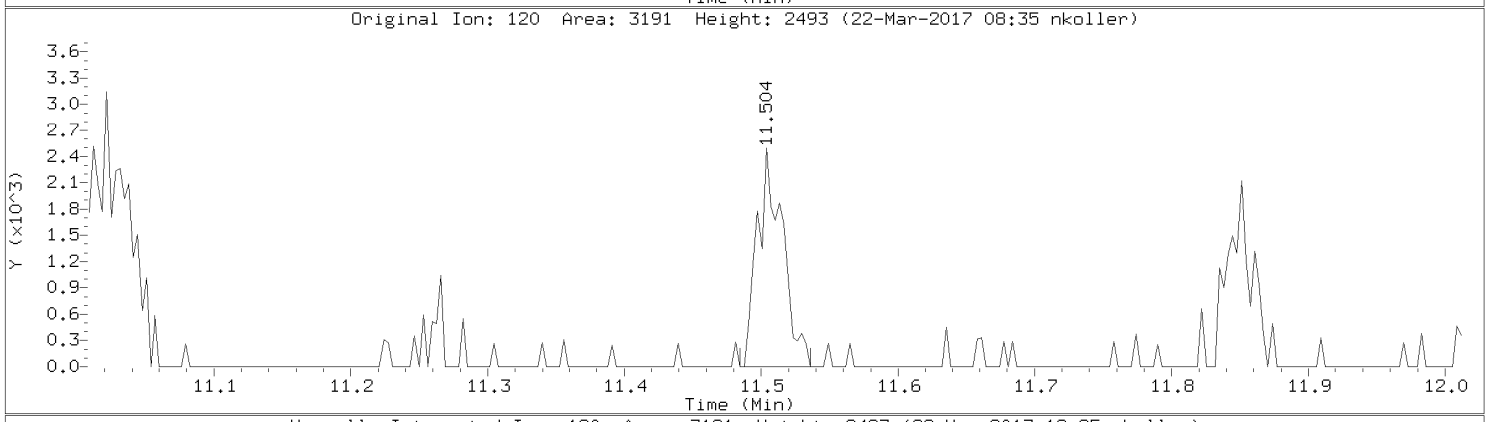


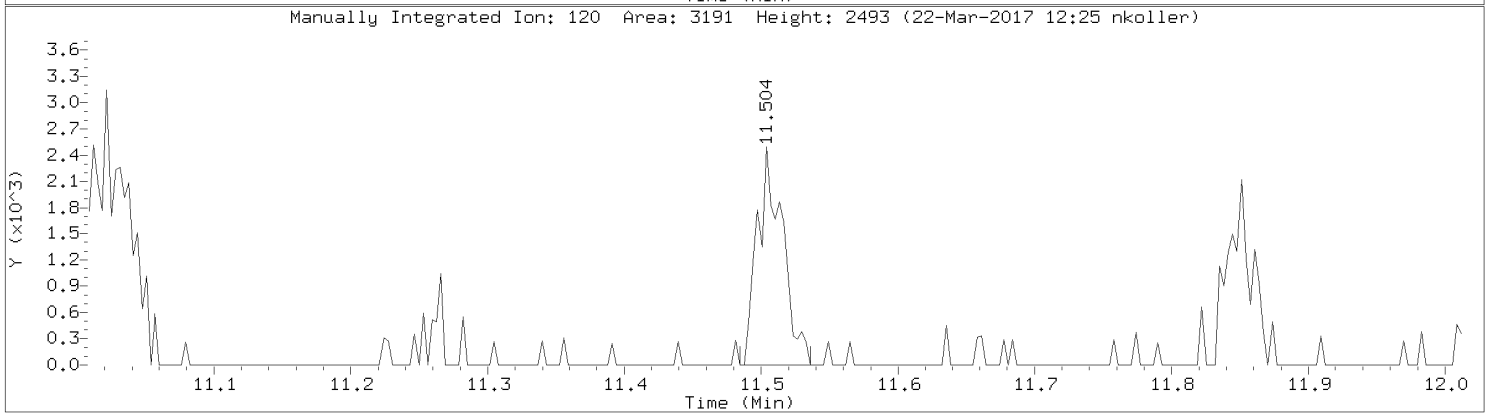
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08017.D
Injection Date: 21-MAR-2017 16:47
Instrument: 10airB.i
Lab Sample ID: 10381035007

Compound: 1,2,4-Trimethylbenzene
CAS Number: 95-63-6



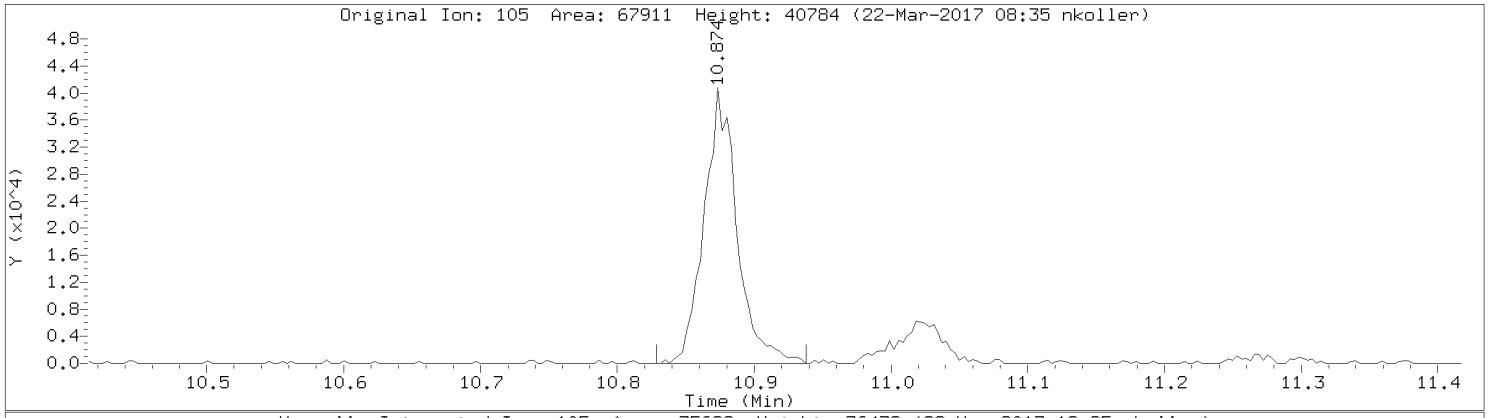


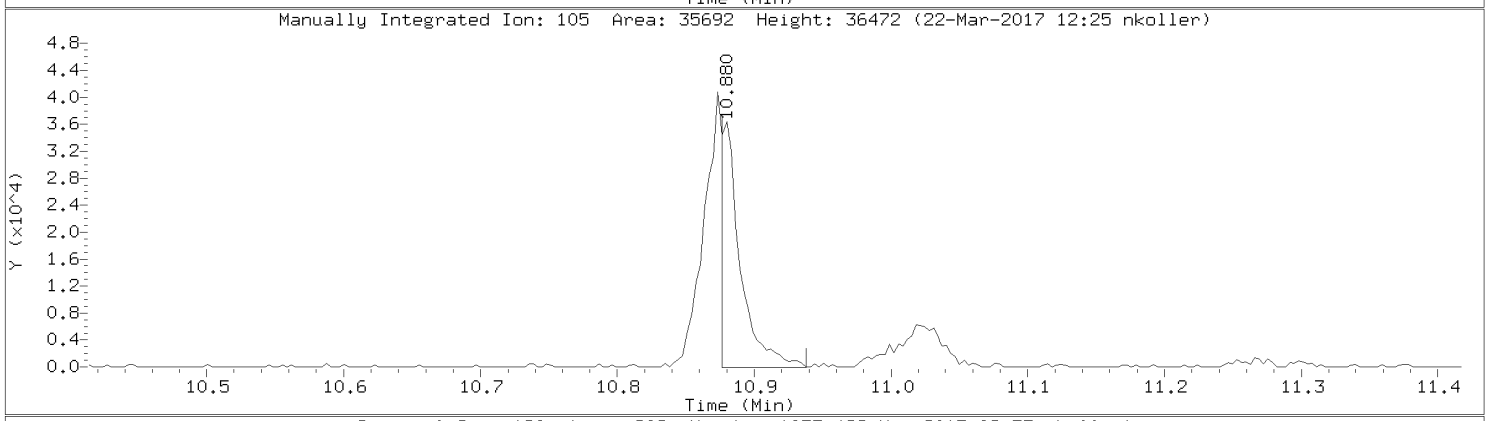


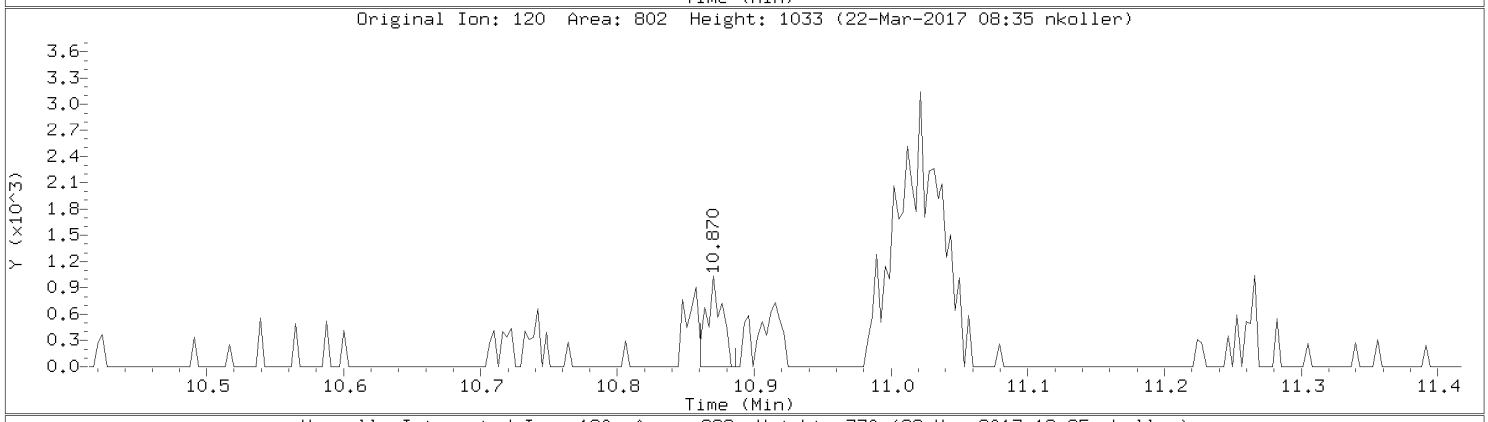


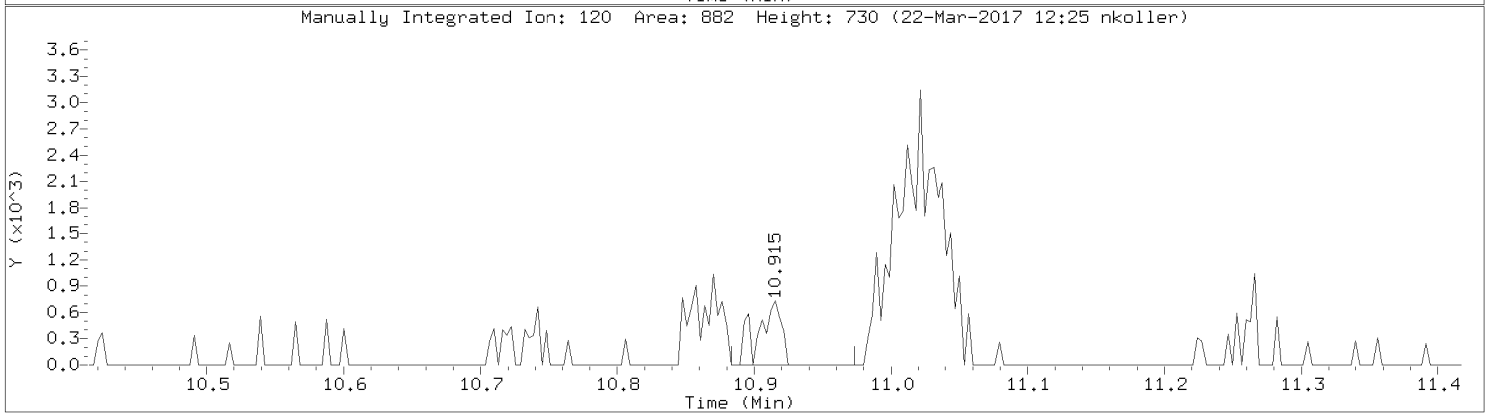
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08017.D
Injection Date: 21-MAR-2017 16:47
Instrument: 10airB.i
Lab Sample ID: 10381035007

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

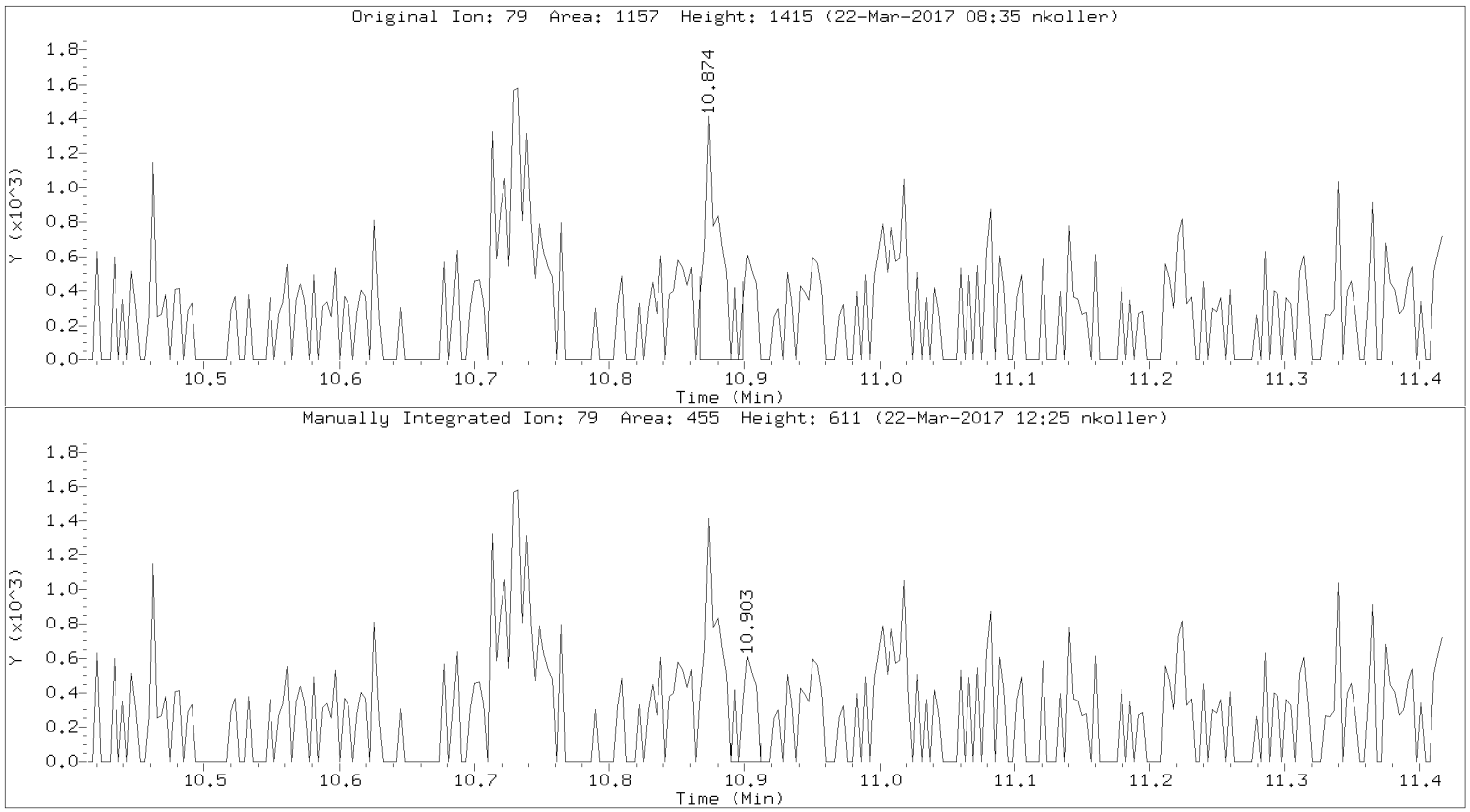






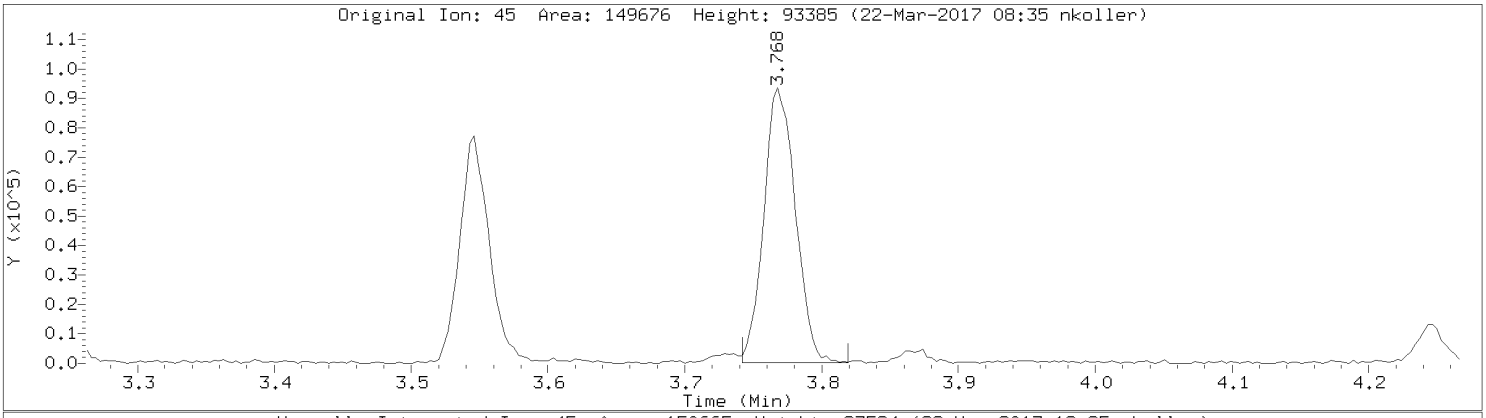


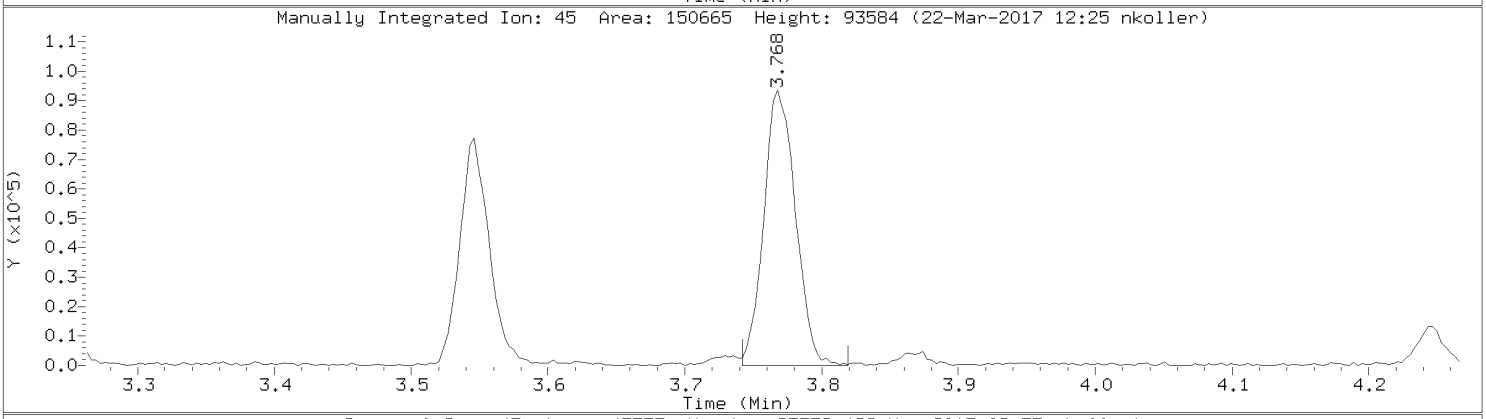
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08017.D
Injection Date: 21-MAR-2017 16:47
Instrument: 10airB.i
Lab Sample ID: 10381035007

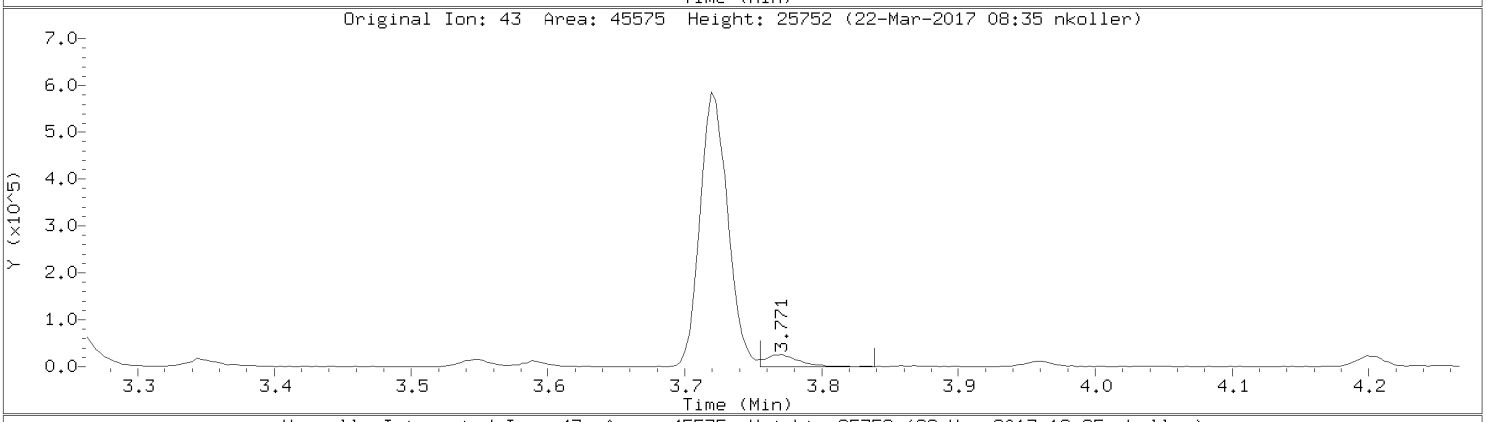


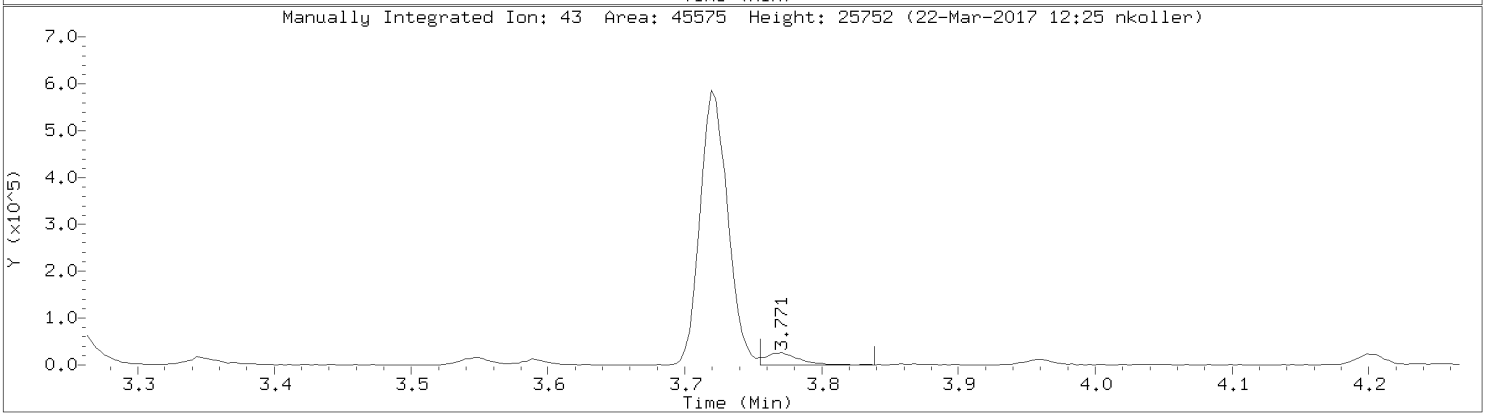
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08017.D
Injection Date: 21-MAR-2017 16:47
Instrument: 10airB.i
Lab Sample ID: 10381035007

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



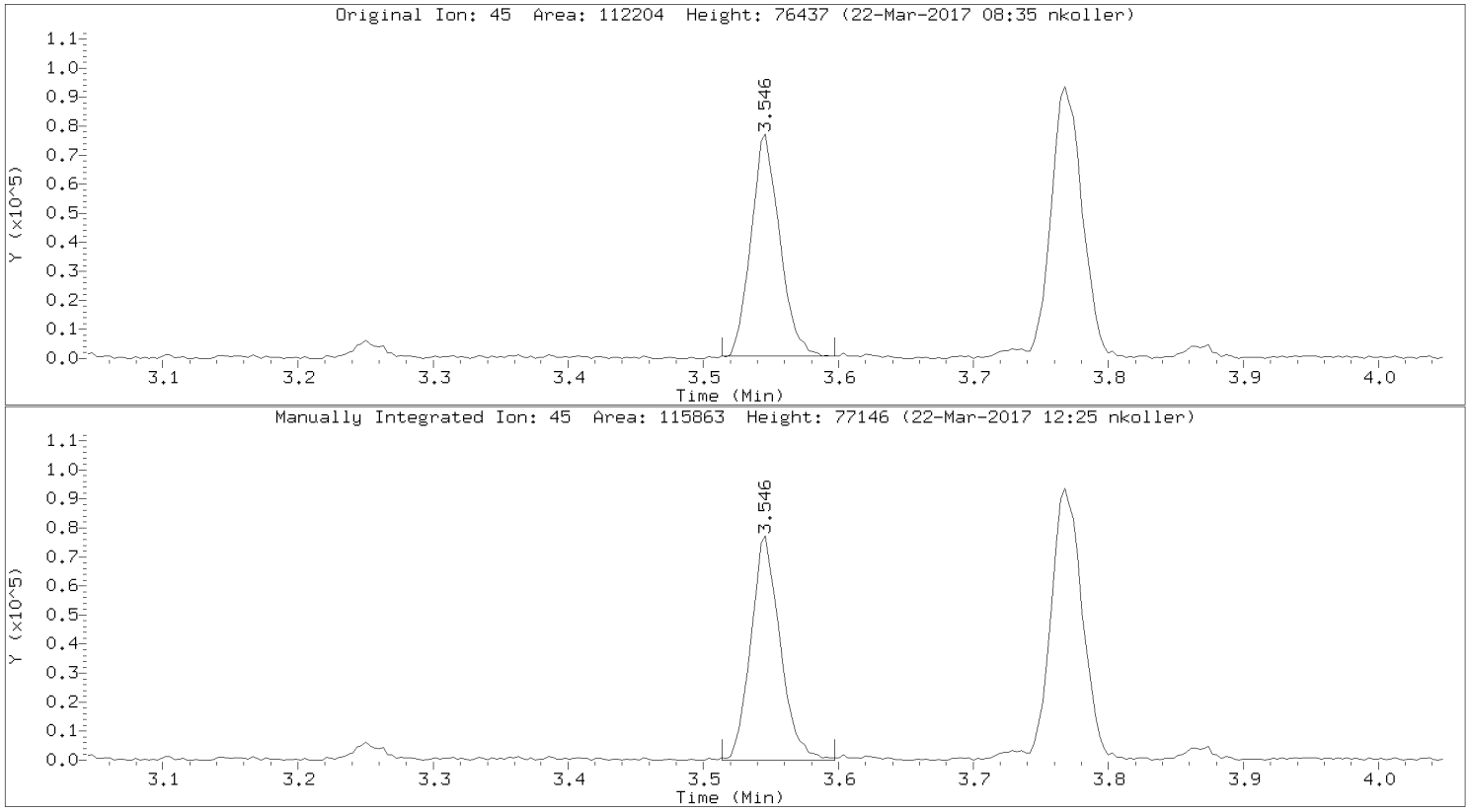






Data File: \\192.168.10.12\chem\10airB.i\032117.b/08017.D
Injection Date: 21-MAR-2017 16:47
Instrument: 10airB.i
Lab Sample ID: 10381035007

Compound: Ethanol
CAS Number: 64-17-5



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_20_20170302 **Lab ID: 10381035007** Collected: 03/02/17 12:05 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.7**	ug/m3	4.4	0.42	1.75		03/21/17 16:47	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.34	1.75		03/21/17 16:47	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 16:47	79-34-5	
Tetrachloroethene	**179**	ug/m3	1.2	0.49	1.75		03/21/17 16:47	127-18-4	
Toluene	**2.1**	ug/m3	1.3	0.27	1.75		03/21/17 16:47	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 16:47	120-82-1	
1,1,1-Trichloroethane	**3.0**	ug/m3	1.9	0.43	1.75		03/21/17 16:47	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 16:47	79-00-5	
Trichloroethene	**151**	ug/m3	0.96	0.48	1.75		03/21/17 16:47	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.0	0.23	1.75		03/21/17 16:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.9J**	ug/m3	2.8	0.53	1.75		03/21/17 16:47	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.22	1.75		03/21/17 16:47	95-63-6	
1,3,5-Trimethylbenzene	**1.7J**	ug/m3	1.7	0.32	1.75		03/21/17 16:47	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 16:47	75-01-4	
m&p-Xylene	**2.1J**	ug/m3	3.1	1.4	1.75		03/21/17 16:47	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 16:47	95-47-6	

Sample: VP-2_30_20170302 **Lab ID: 10381035008** Collected: 03/02/17 12:01 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**27.4**	ug/m3	4.1	1.4	1.68		03/21/17 17:19	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 17:19	107-05-1	
Benzene	**0.55**	ug/m3	0.55	0.20	1.68		03/21/17 17:19	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 17:19	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 17:19	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 17:19	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 17:19	106-99-0	
2-Butanone (MEK)	**6.2**	ug/m3	5.0	0.38	1.68		03/21/17 17:19	78-93-3	
Carbon disulfide	**0.64J**	ug/m3	1.1	0.17	1.68		03/21/17 17:19	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 17:19	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 17:19	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/21/17 17:19	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 17:19	75-00-3	
Chloroform	**1.0**	ug/m3	0.83	0.32	1.68		03/21/17 17:19	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 17:19	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 17:19	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/21/17 17:19	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 17:19	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 17:19	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 17:19	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 17:19	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 17:19	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_30_20170302 **Lab ID: 10381035008** Collected: 03/02/17 12:01 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**1.7J**	ug/m3	2.0	0.84	1.68		03/21/17 17:19	106-46-7	
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/21/17 17:19	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 17:19	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 17:19	107-06-2	
1,1-Dichloroethene	**0.72J**	ug/m3	1.4	0.40	1.68		03/21/17 17:19	75-35-4	
cis-1,2-Dichloroethene	**124**	ug/m3	1.4	0.41	1.68		03/21/17 17:19	156-59-2	
trans-1,2-Dichloroethene	**1.2J**	ug/m3	1.4	0.65	1.68		03/21/17 17:19	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 17:19	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 17:19	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 17:19	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 17:19	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 17:19	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 17:19	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 17:19	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.7	0.32	1.68		03/21/17 17:19	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 17:19	87-68-3	
n-Hexane	**<0.60**	ug/m3	1.2	0.60	1.68		03/21/17 17:19	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 17:19	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 17:19	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 17:19	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 17:19	108-87-2	
Methylene Chloride	**4.1J**	ug/m3	5.9	0.91	1.68		03/21/17 17:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 17:19	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 17:19	1634-04-4	
2-Propanol	**5.2**	ug/m3	4.2	0.40	1.68		03/21/17 17:19	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.32	1.68		03/21/17 17:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 17:19	79-34-5	
Tetrachloroethene	**391**	ug/m3	1.2	0.47	1.68		03/21/17 17:19	127-18-4	
Toluene	**22.7**	ug/m3	1.3	0.26	1.68		03/21/17 17:19	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 17:19	120-82-1	
1,1,1-Trichloroethane	**2.4**	ug/m3	1.9	0.41	1.68		03/21/17 17:19	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 17:19	79-00-5	
Trichloroethene	**288**	ug/m3	0.92	0.46	1.68		03/21/17 17:19	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	1.9	0.22	1.68		03/21/17 17:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	**54.4**	ug/m3	2.7	0.51	1.68		03/21/17 17:19	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.21	1.68		03/21/17 17:19	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.31	1.68		03/21/17 17:19	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 17:19	75-01-4	
m&p-Xylene	**2.8J**	ug/m3	3.0	1.3	1.68		03/21/17 17:19	179601-23-1	
o-Xylene	**0.94J**	ug/m3	1.5	0.59	1.68		03/21/17 17:19	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D
Report Date: 22-Mar-2017 12:26

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08018.D
Lab Smp Id: 10381035008
Inj Date : 21-MAR-2017 17:19
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 18
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.549	3.545	(0.633)	188258	7.80495	13.1	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.590	3.603	(0.640)	63229	0.73013	1.23(Q)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.668	3.677	(0.654)	23700	0.18179	0.305	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.729	3.722	(0.665)	702401	6.74489	11.3	
19	Isopropyl Alcohol	45	3.770	3.764	(0.673)	145373	1.23464	2.07	
20	1,1-Dichloroethene	61	3.902	3.912	(0.696)	10028	0.10637	0.179	
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.950	3.951	(0.705)	412988	4.15755	6.98	
23	Methyl Acetate	43	3.963	3.957	(0.707)	20109	0.12761	0.214	
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D
Report Date: 22-Mar-2017 12:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	3.995	4.005	(0.713)	58539	0.68376	1.15	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	4.114	4.127	(0.734)	12742	0.12016	0.202	
	28 trans-1,2-dichloroethene	96	4.262	4.275	(0.760)	8295	0.18120	0.304(Q)	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	4.442	4.388	(0.792)	99892	0.63828	1.07	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.487	4.491	(0.800)	2108286	9.54724	9.55	
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.813)	29646	1.23449	2.07	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.722	4.716	(0.842)	26706	0.17182	0.289(Q)	
	37 cis-1,2-Dichloroethene	96	4.709	4.725	(0.840)	1030153	18.3234	30.8(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.825	4.841	(0.861)	14486	0.12335	0.207	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.217	5.233	(0.931)	35689	0.25870	0.435	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	5.455	5.465	(0.973)	18874	0.10170	0.171	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.606	5.613	(1.000)	6442856	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.889	5.889	(1.050)	15309	0.11702	0.197	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.979	5.986	(1.067)	2718518	31.3325	52.6(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.073	7.076	(1.261)	5693000	9.59554	9.60	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.146	7.153	(1.275)	758685	3.52038	5.91	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.581	(0.876)	44463	0.28958	0.486(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	3195129	33.7167	56.6(A)	
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	4177610	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.072	9.082	(1.050)	47188	0.37278	0.626	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.503	9.507	(1.100)	3417	0.15078	0.253(M)	
	74 o-Xylene	91	9.577	9.577	(1.108)	23448	0.12616	0.212	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	10.902	10.915	(1.262)	6689	0.18191	0.306	

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D
Report Date: 22-Mar-2017 12:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	11.002	10.998	(1.273)	5178	0.16140	0.271	
80	n-Decane	57	11.375	11.381	(2.029)	16931	0.13117	0.220(M)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.506	11.510	(1.331)	11122	0.17953	0.302	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	1919248	9.52016	9.52	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	11.870	11.889	(1.374)	2816	0.16346	0.275(QM)	
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.031	12.034	(1.392)	4276	0.16723	0.281	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.156	(1.640)	3593	0.45344	0.762	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D
Report Date: 22-Mar-2017 12:26

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08018.D
Lab Smp Id: 10381035008
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

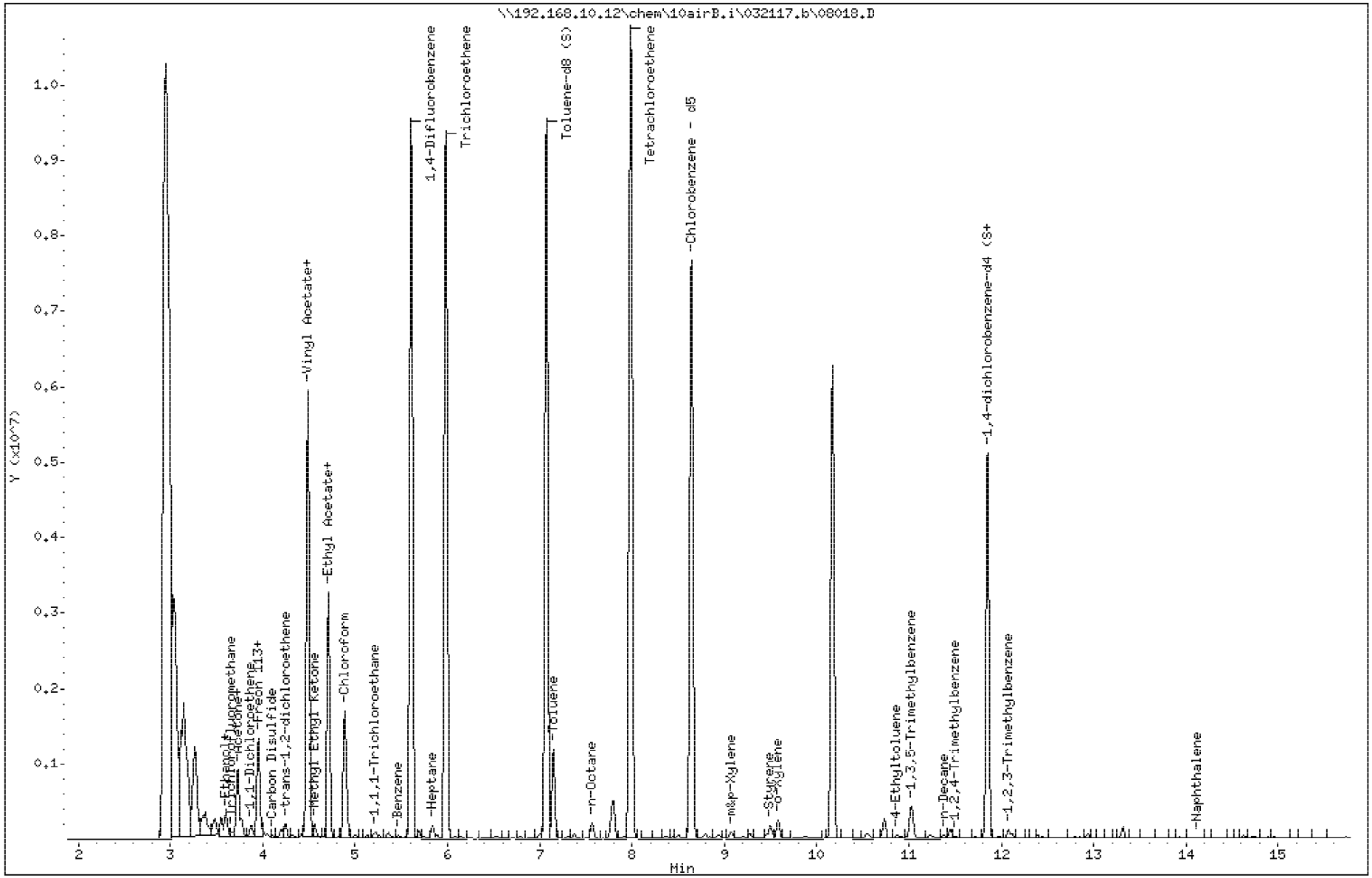
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6442856	-15.68
67 Chlorobenzene - d	5205948	3123569	7288327	4177610	-19.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.12
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D
Date : 21-MAR-2017 17:19
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

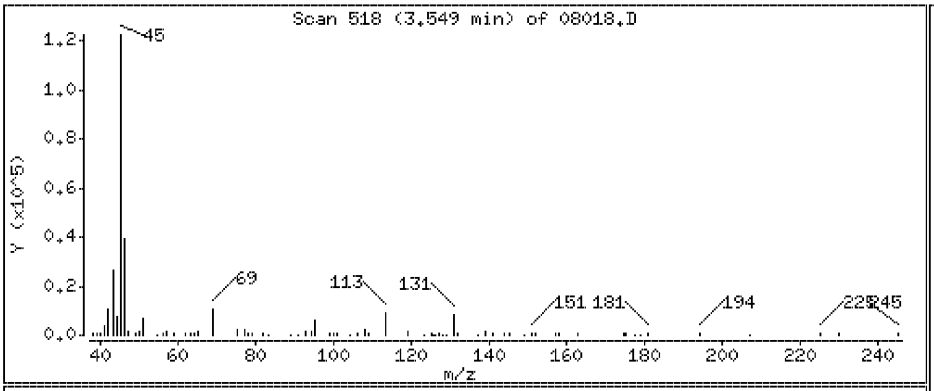
Operator: NCK

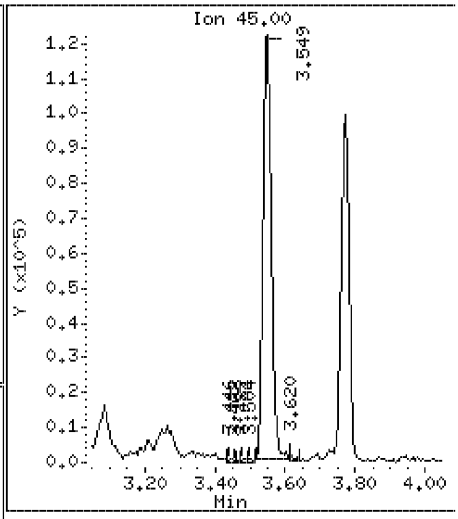
Column phase: J&W DB-5

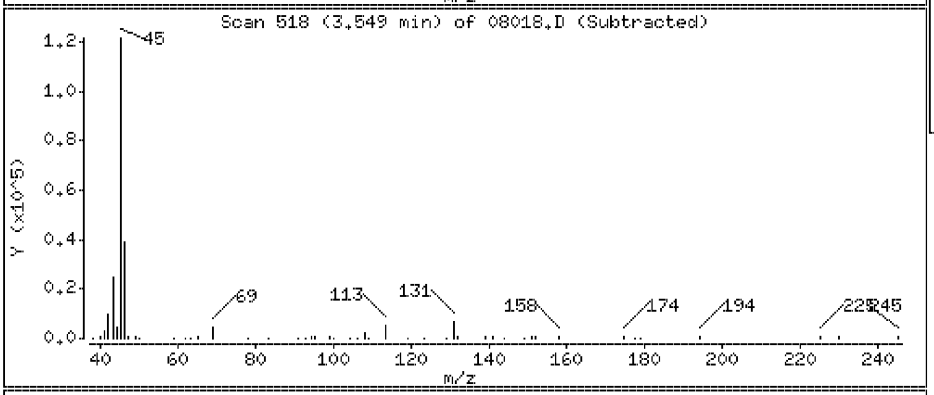
Column diameter: 0.32

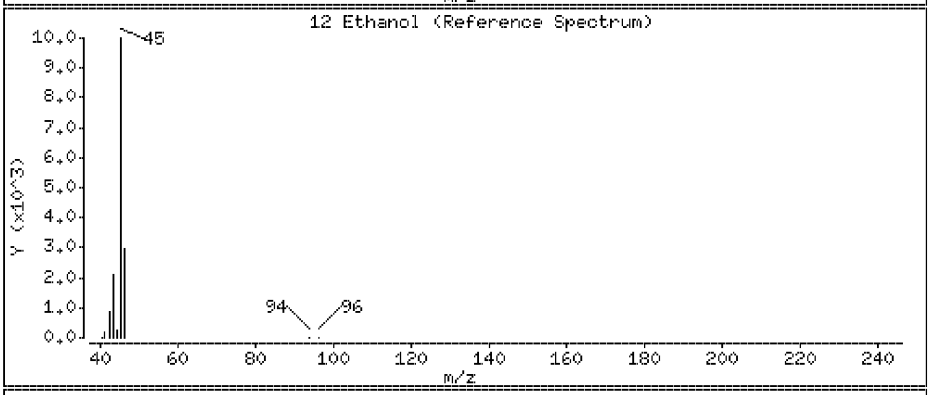
12 Ethanol

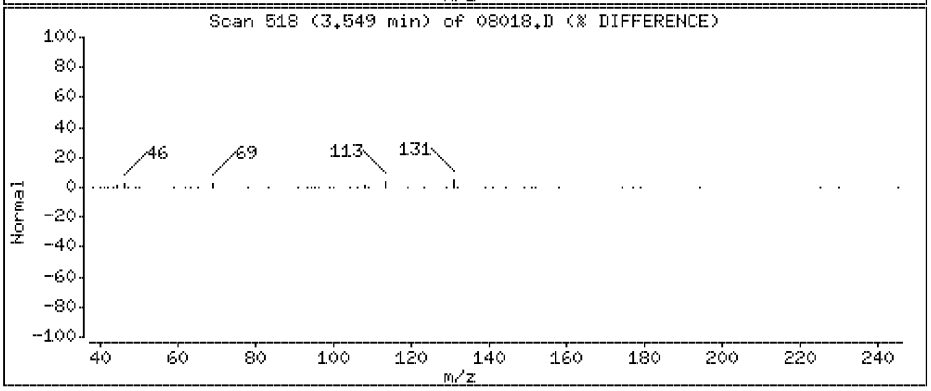
Concentration: 13.1 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

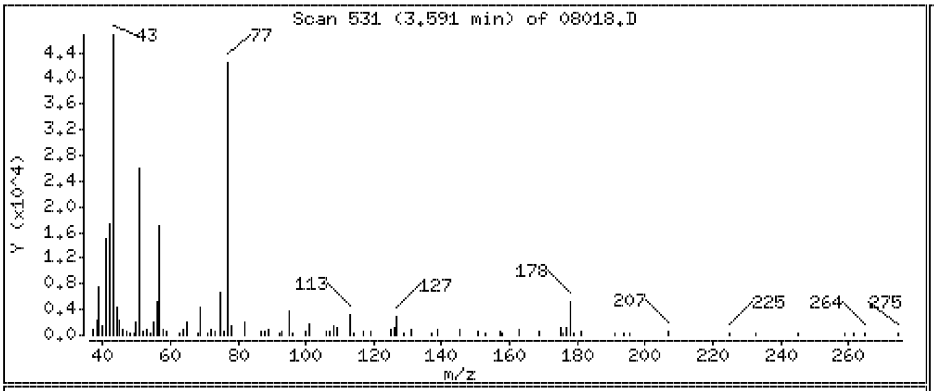
Operator: NCK

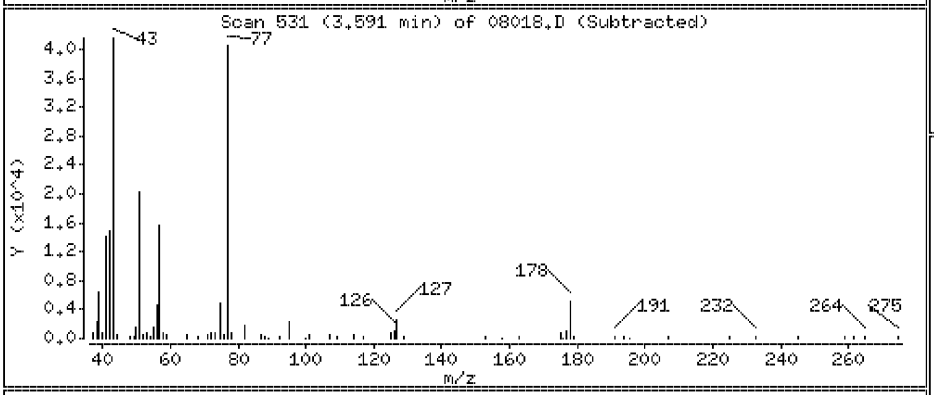
Column phase: J&W DB-5

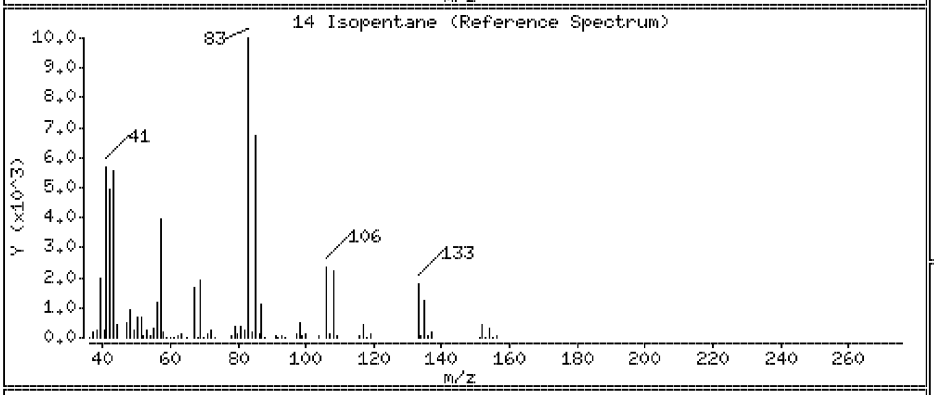
Column diameter: 0.32

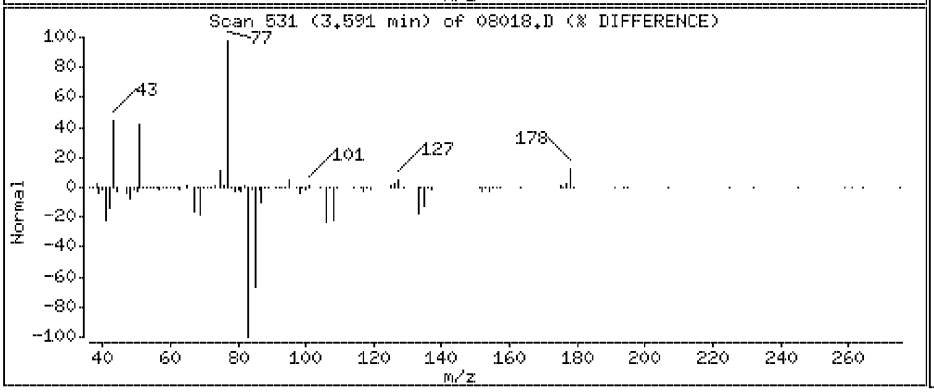
14 Isopentane

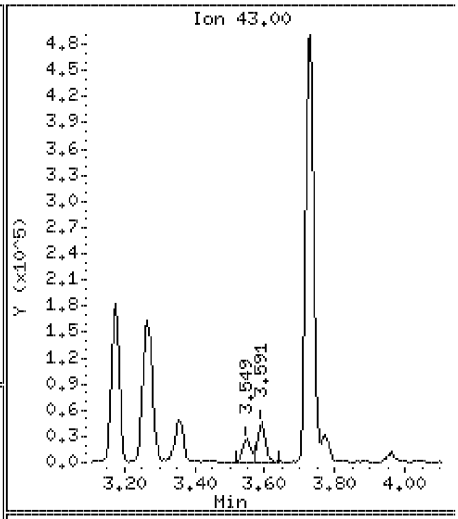
Concentration: 1.23 ppbv

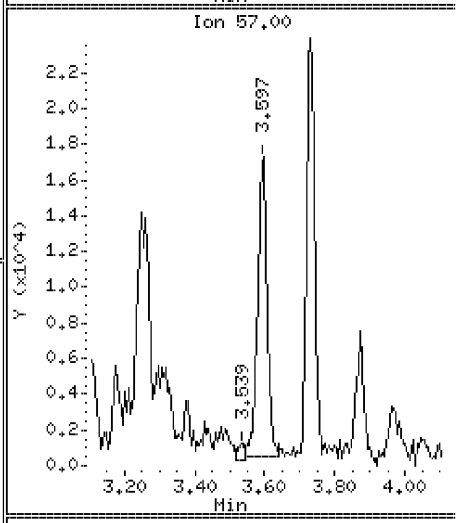


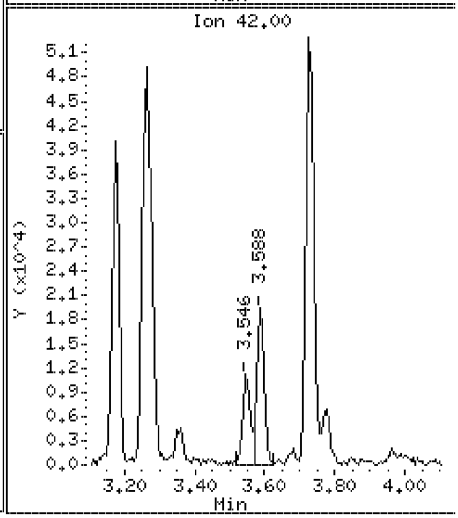












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

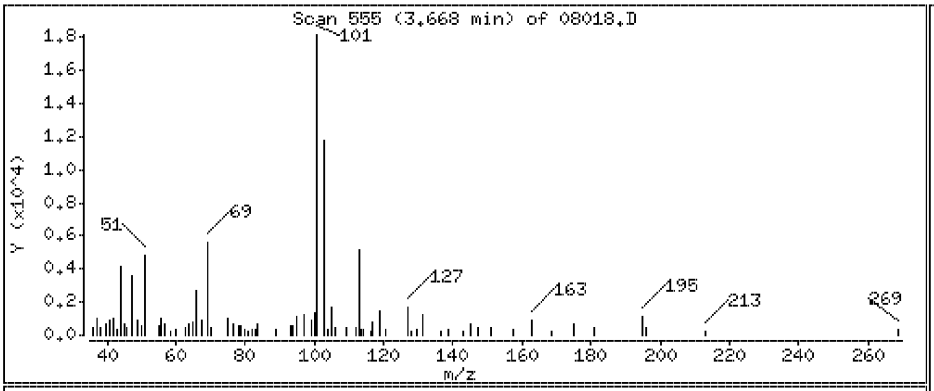
Operator: NCK

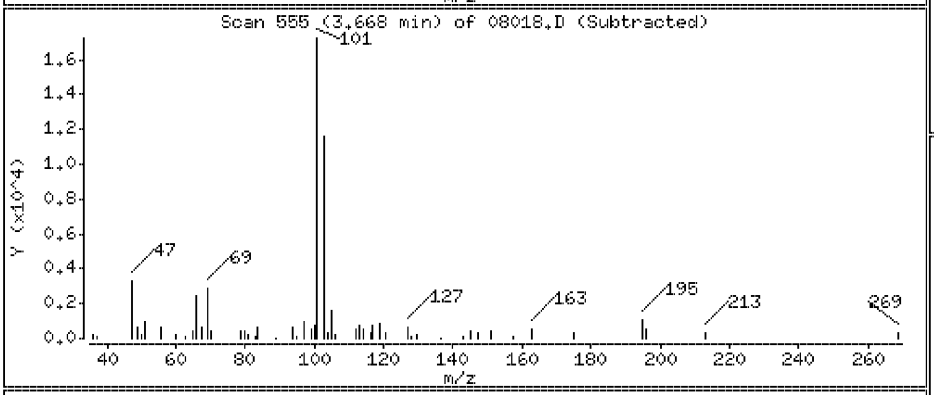
Column phase: J&W DB-5

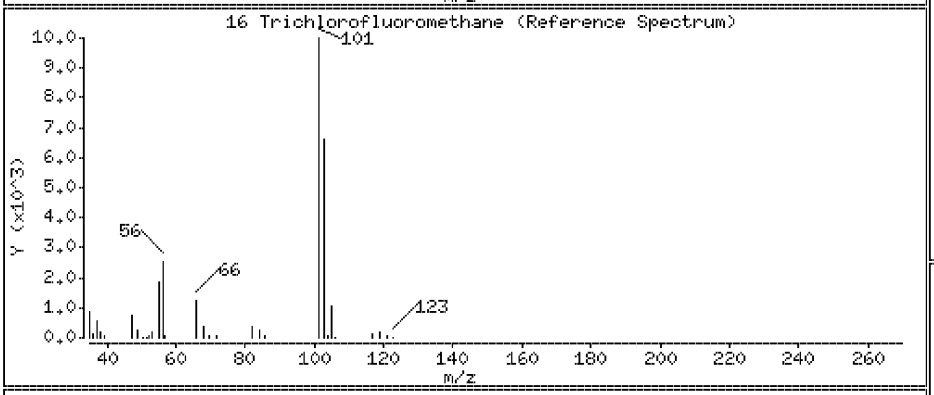
Column diameter: 0.32

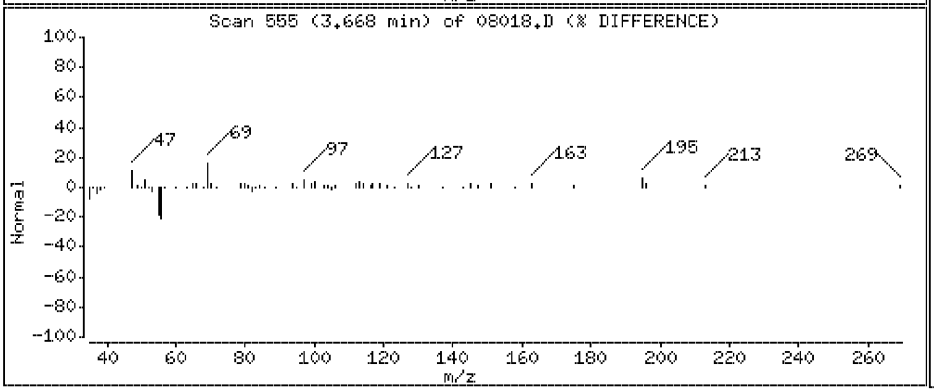
16 Trichlorofluoromethane

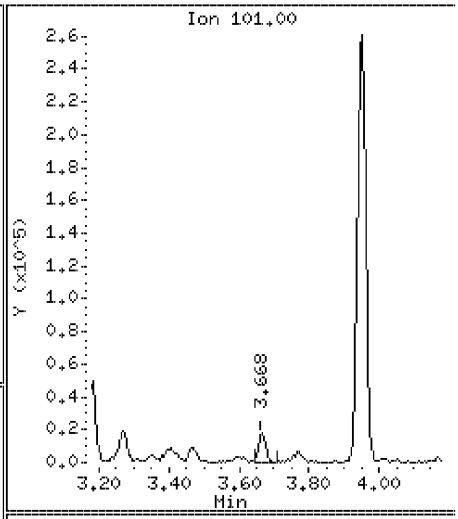
Concentration: 0.305 ppbv

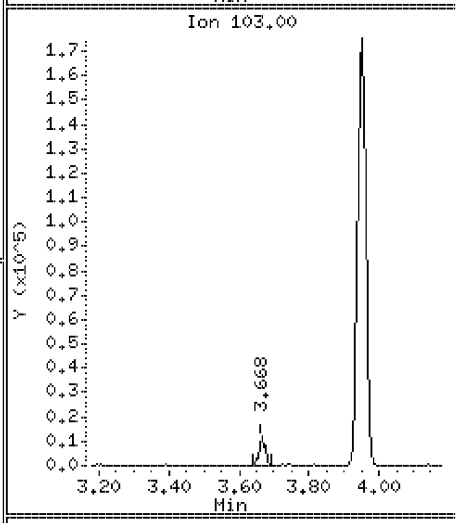


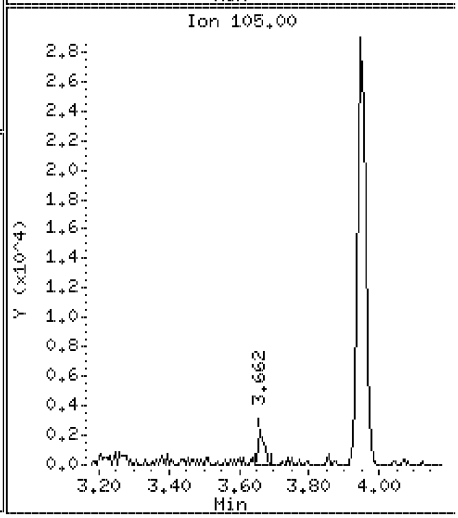












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

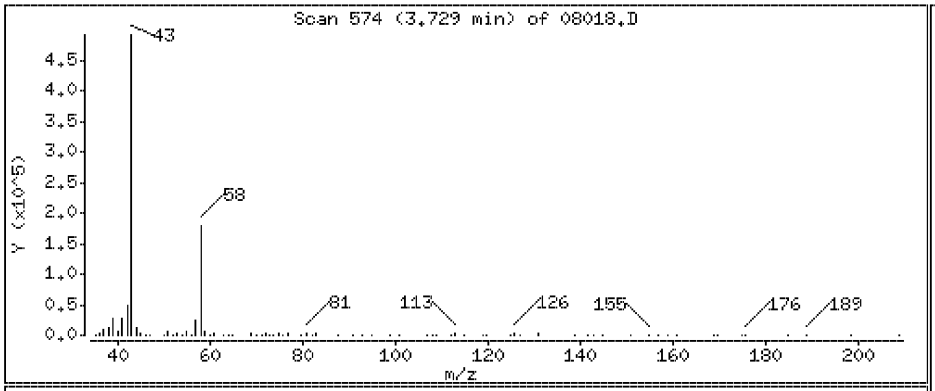
Operator: NCK

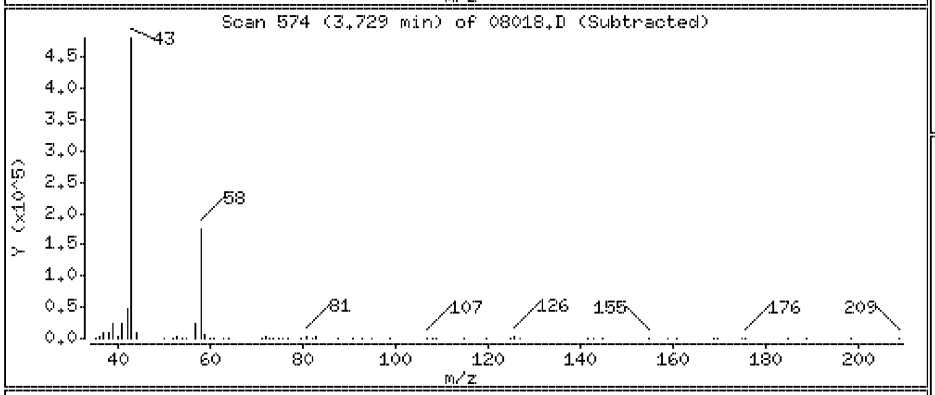
Column phase: J&W DB-5

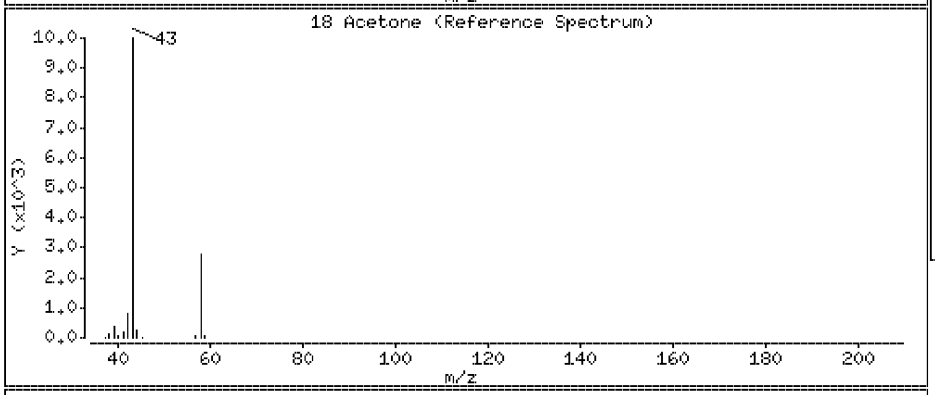
Column diameter: 0.32

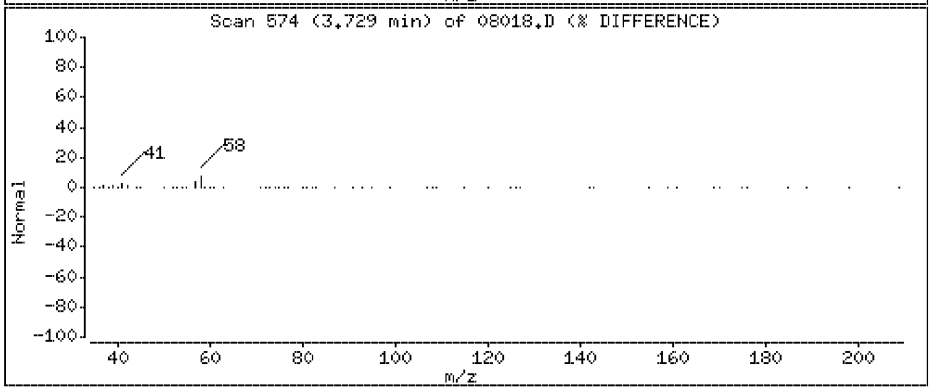
18 Acetone

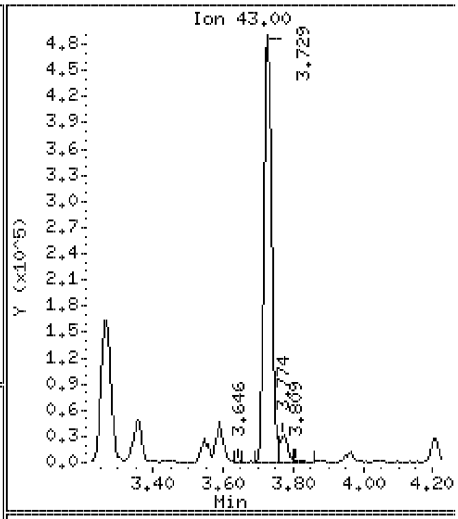
Concentration: 11.3 ppbv

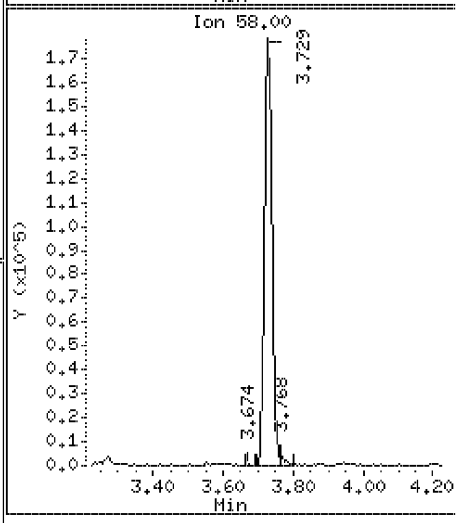












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

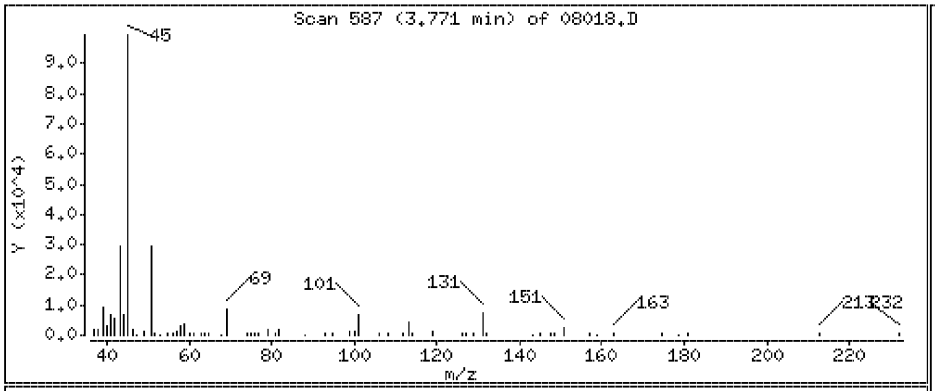
Operator: NCK

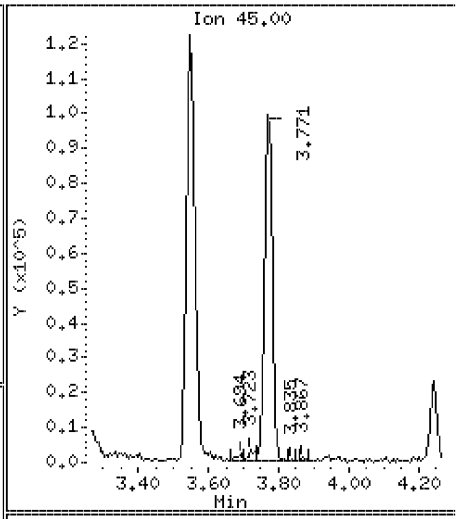
Column phase: J&W DB-5

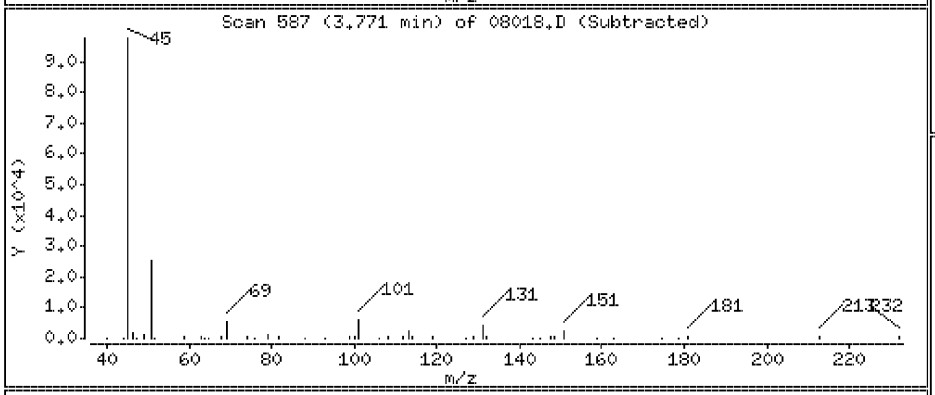
Column diameter: 0.32

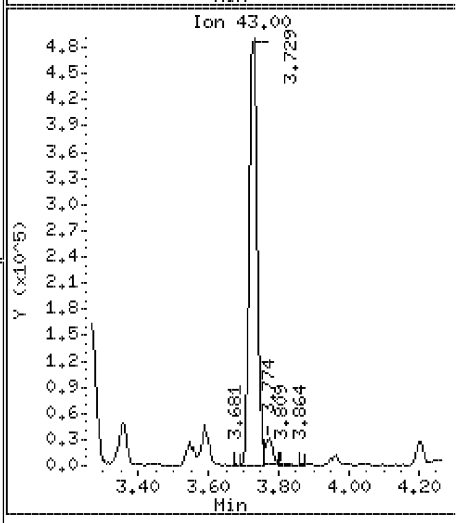
19 Isopropyl Alcohol

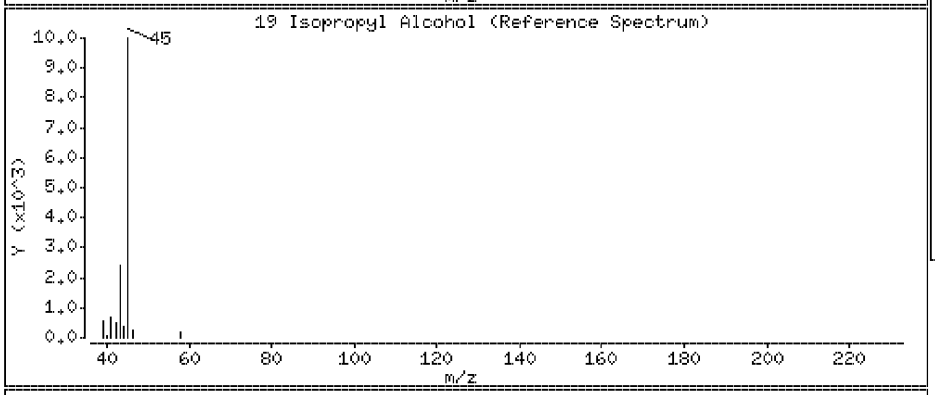
Concentration: 2.07 ppbv

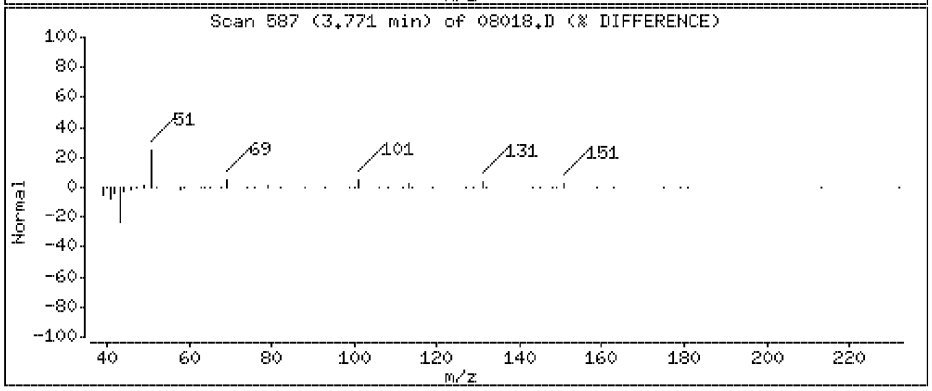












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

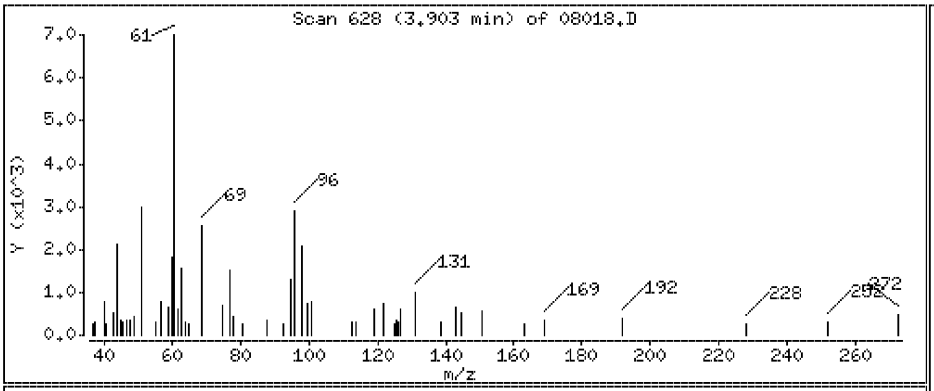
Operator: NCK

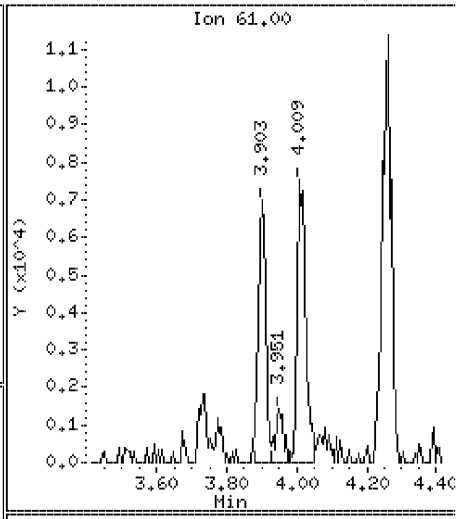
Column phase: J&W DB-5

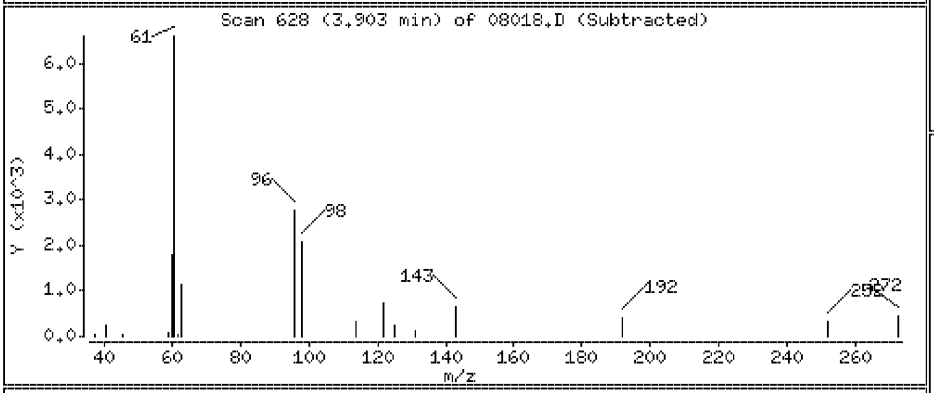
Column diameter: 0.32

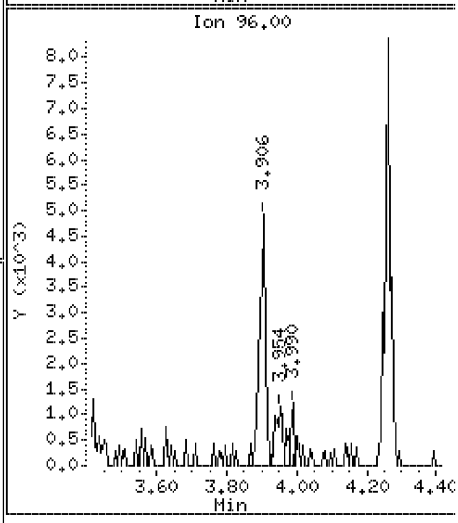
20 1,1-Dichloroethene

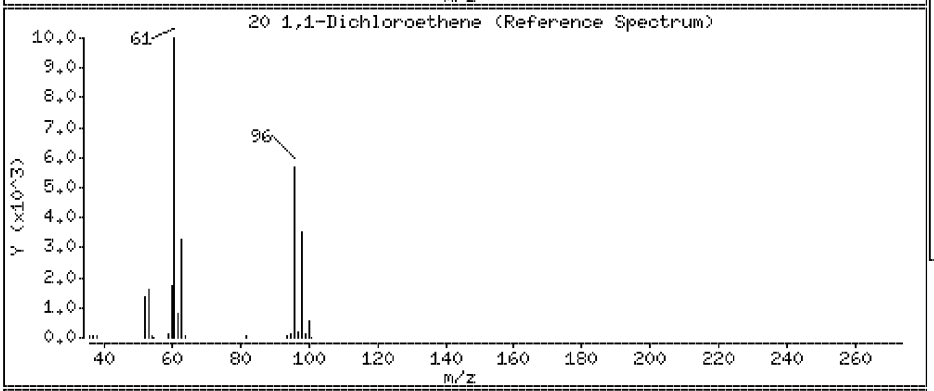
Concentration: 0.179 ppbv

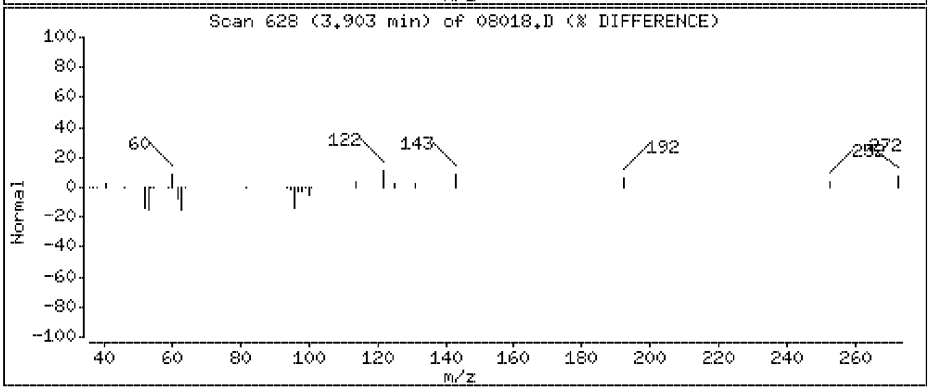












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

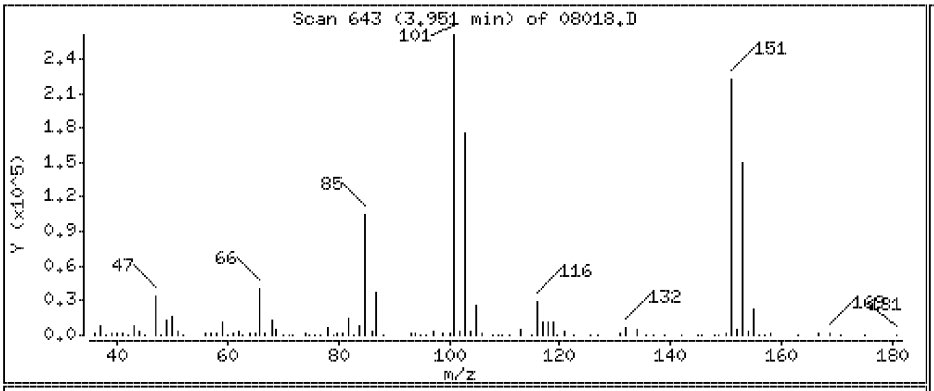
Operator: NCK

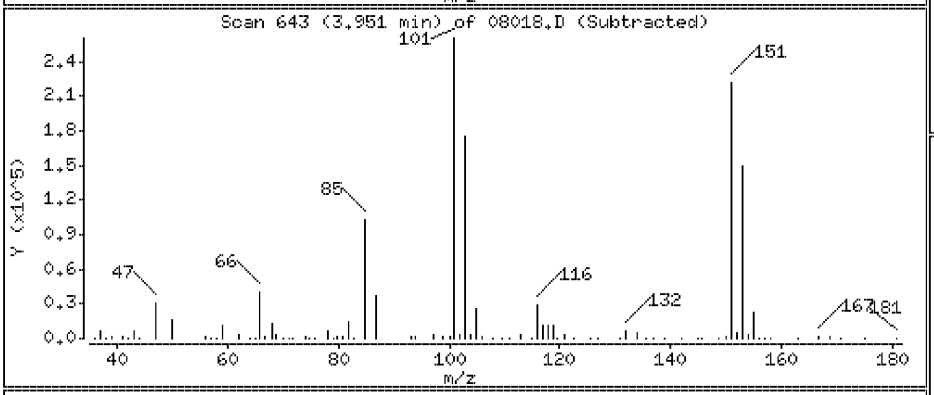
Column phase: J&W DB-5

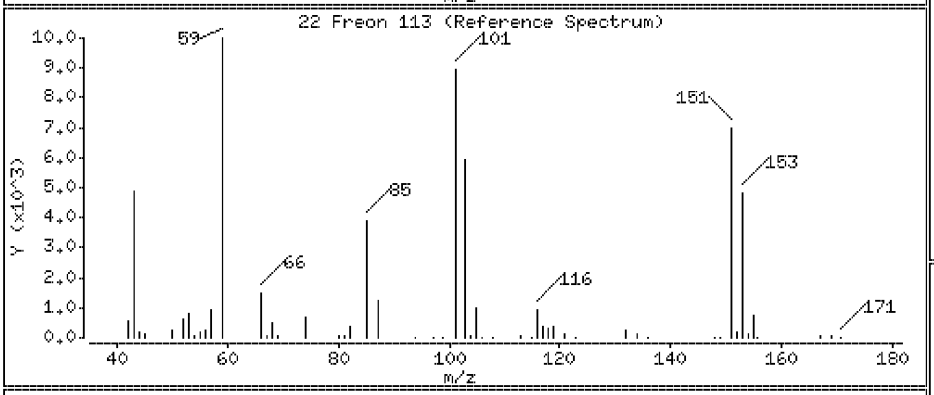
Column diameter: 0.32

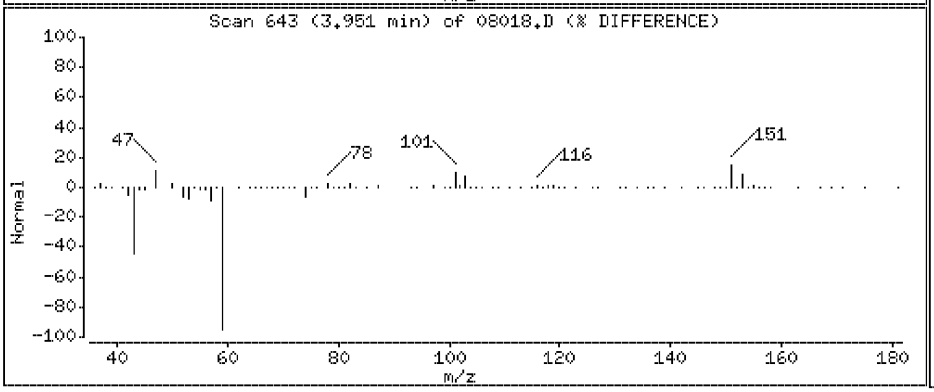
22 Freon 113

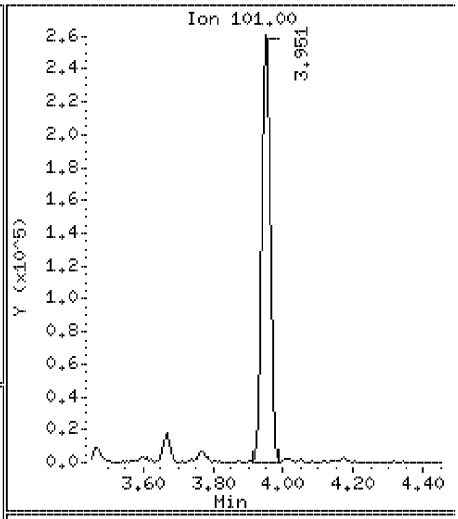
Concentration: 6.98 ppbv

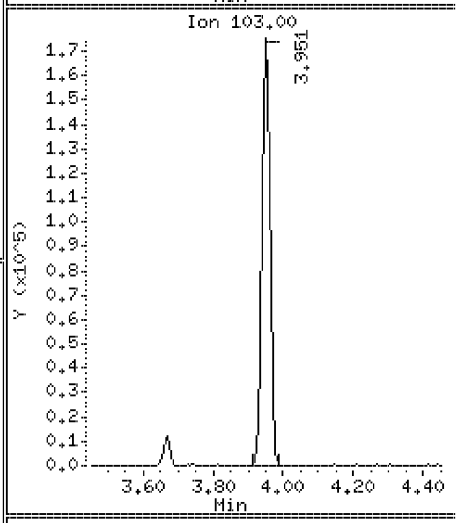


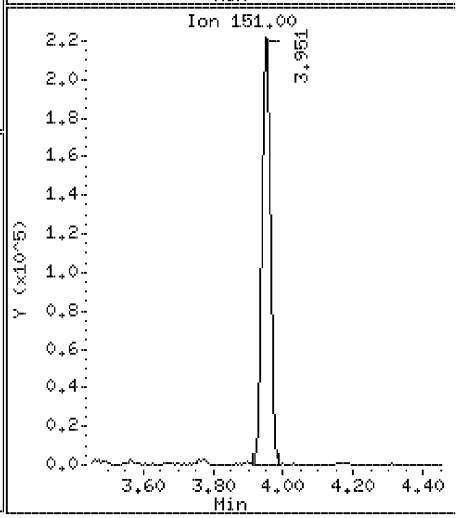












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

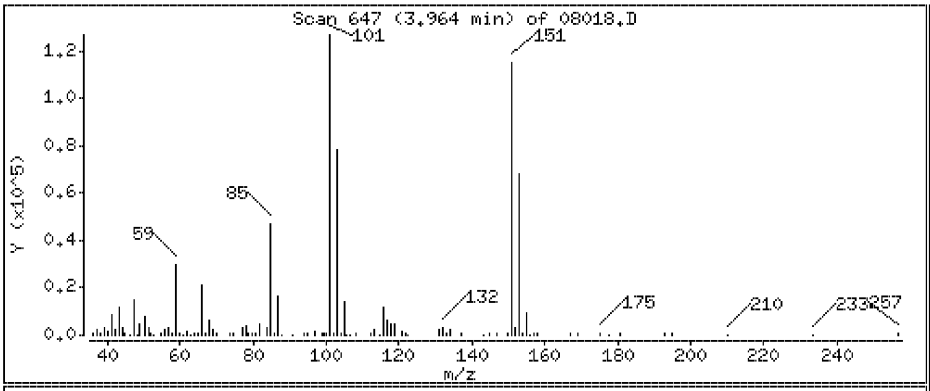
Operator: NCK

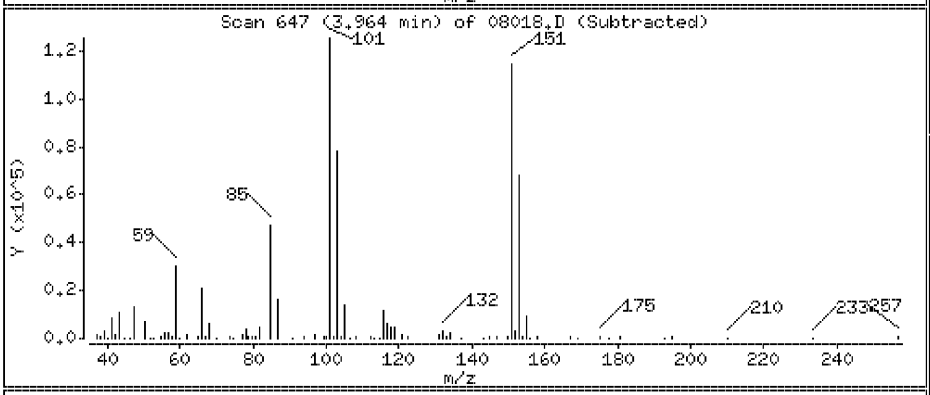
Column phase: J&W DB-5

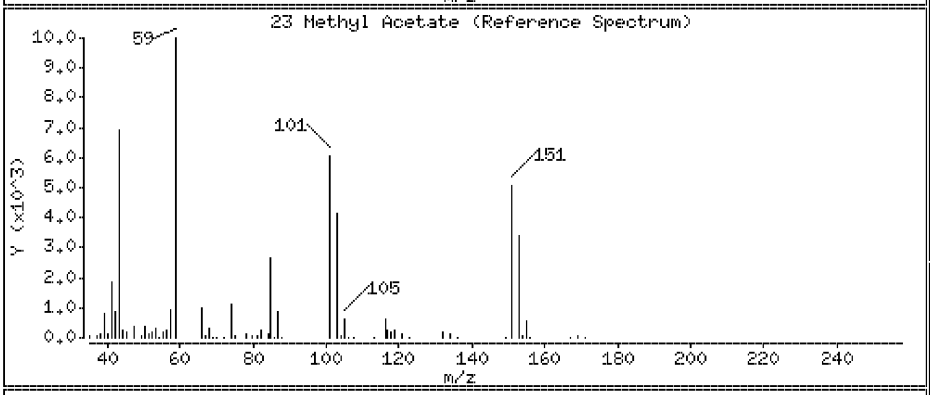
Column diameter: 0.32

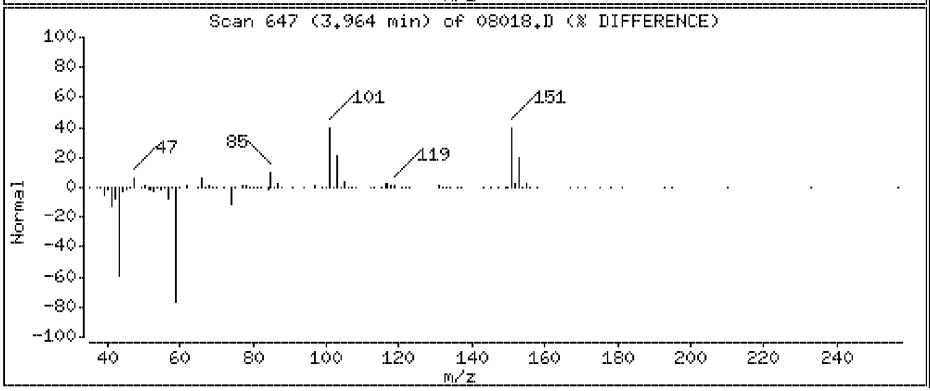
23 Methyl Acetate

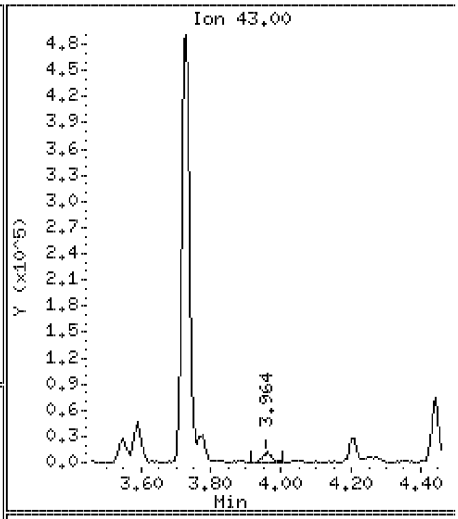
Concentration: 0.214 ppbv

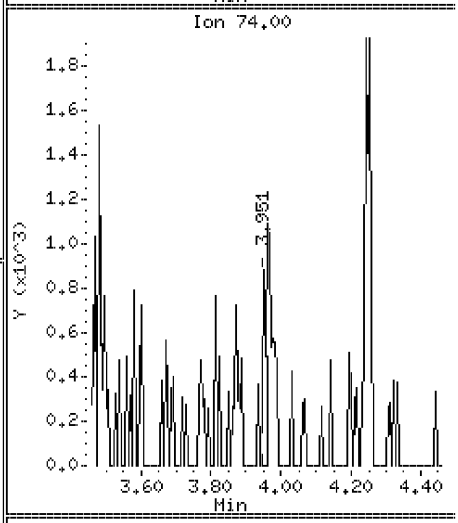


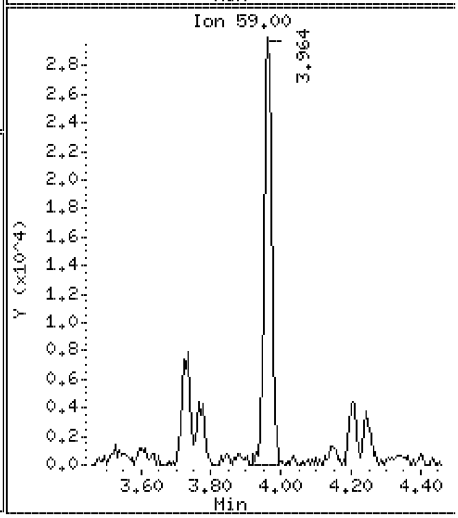












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

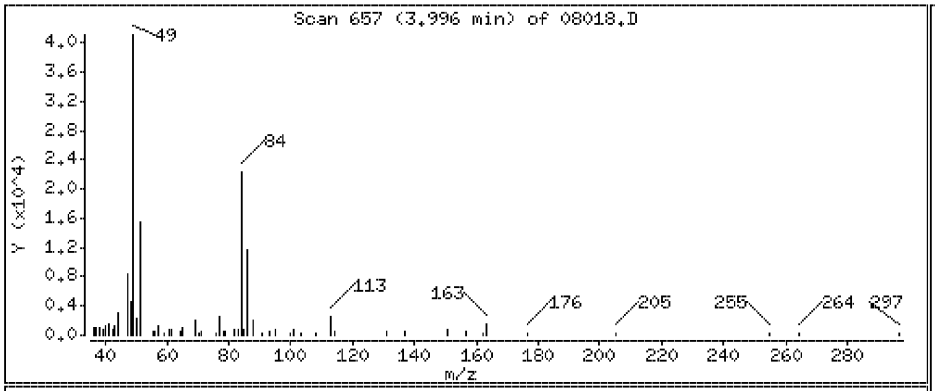
Operator: NCK

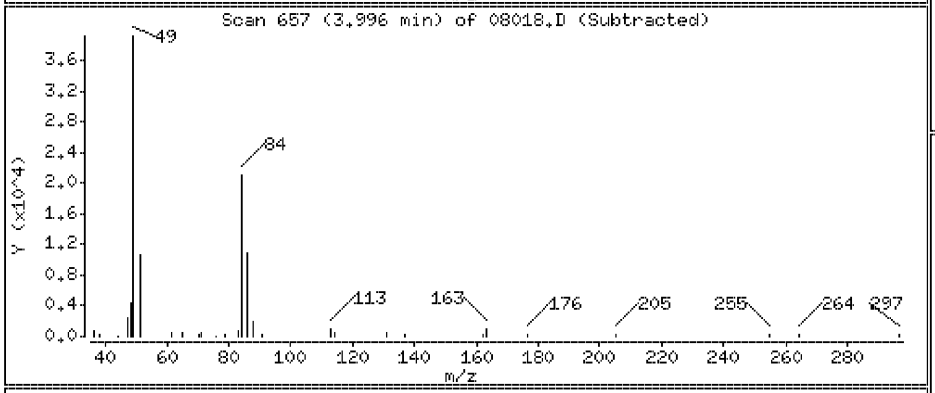
Column phase: J&W DB-5

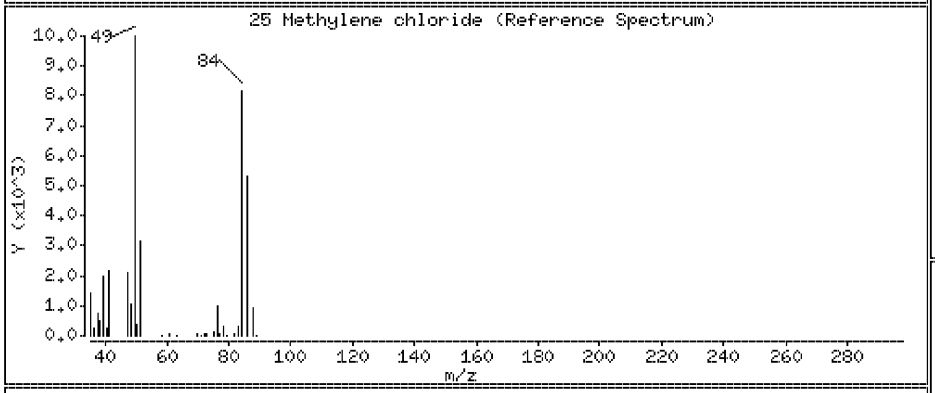
Column diameter: 0.32

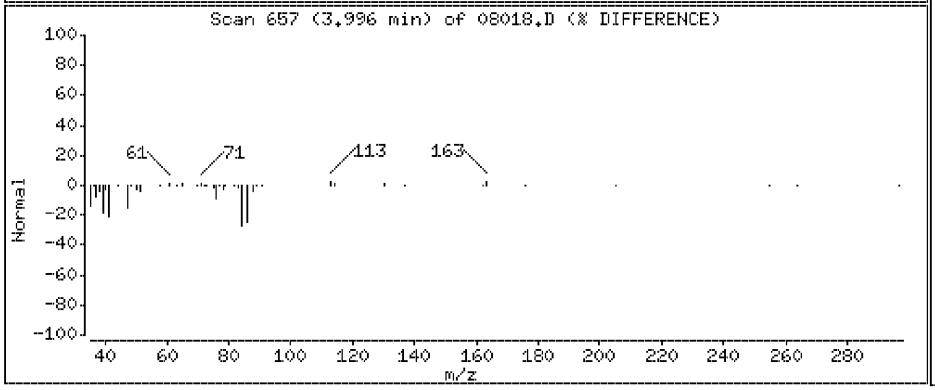
25 Methylene chloride

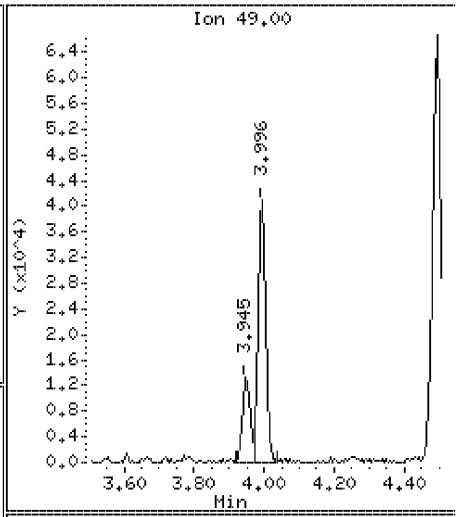
Concentration: 1.15 ppbv

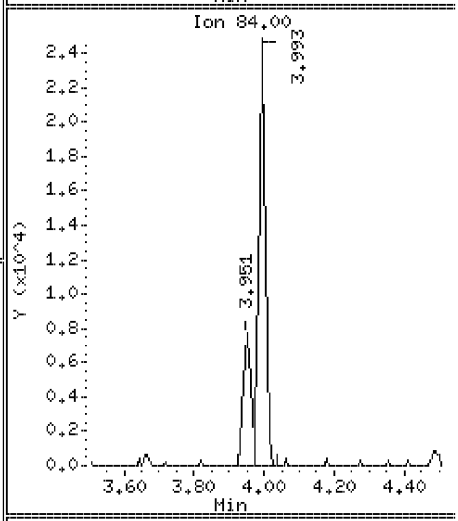


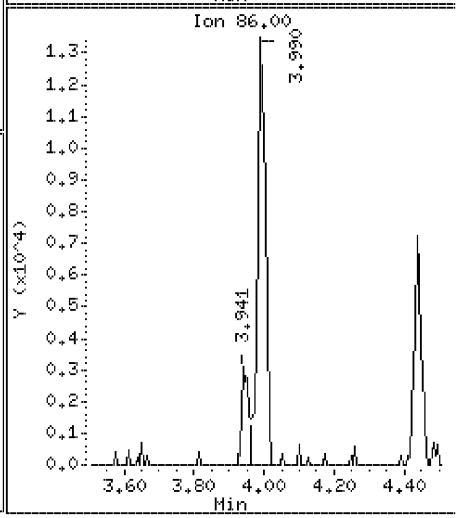












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

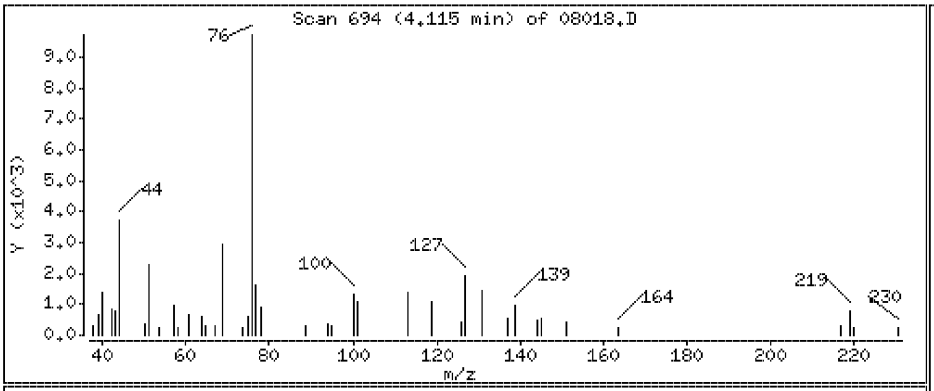
Operator: NCK

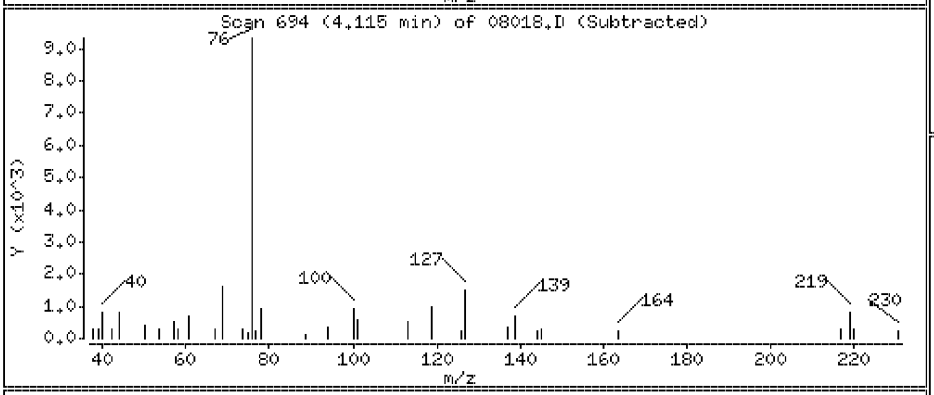
Column phase: J&W DB-5

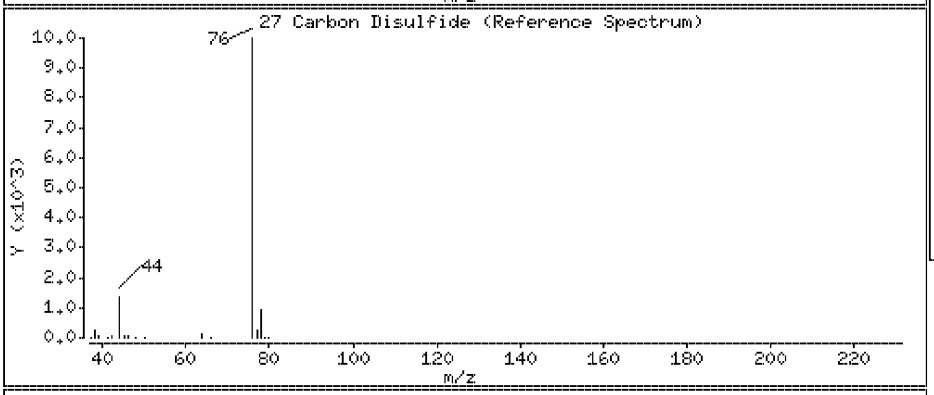
Column diameter: 0.32

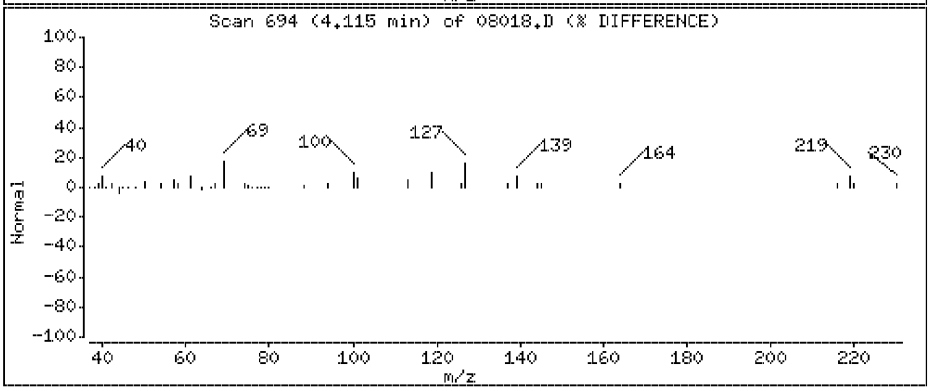
27 Carbon Disulfide

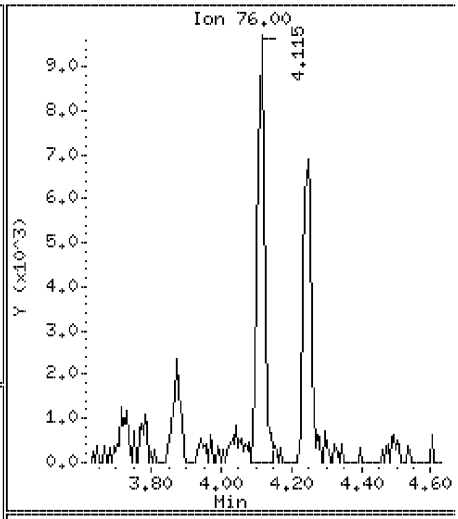
Concentration: 0.202 ppbv

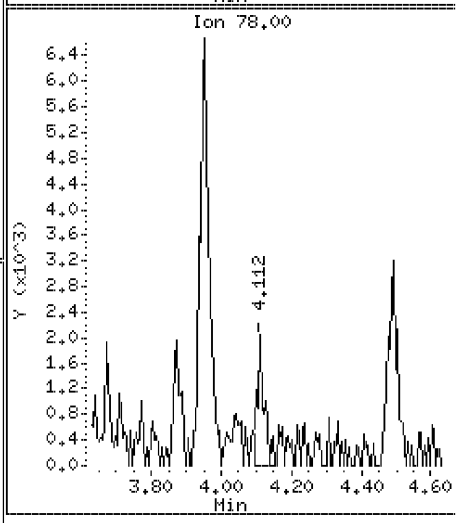












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

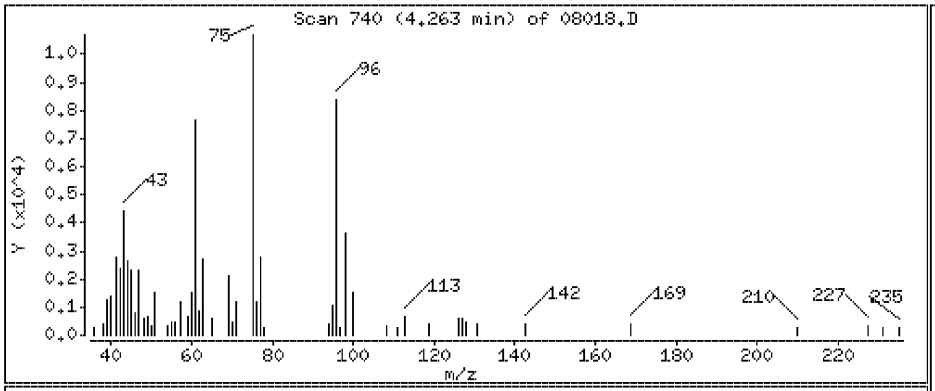
Operator: NCK

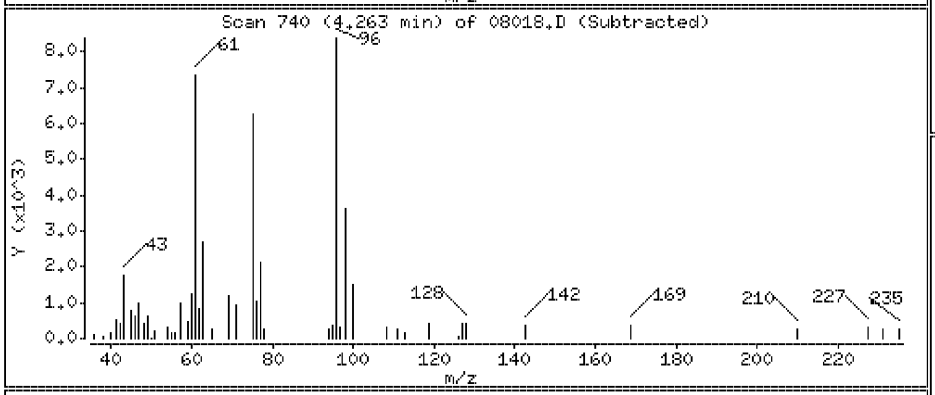
Column phase: J&W DB-5

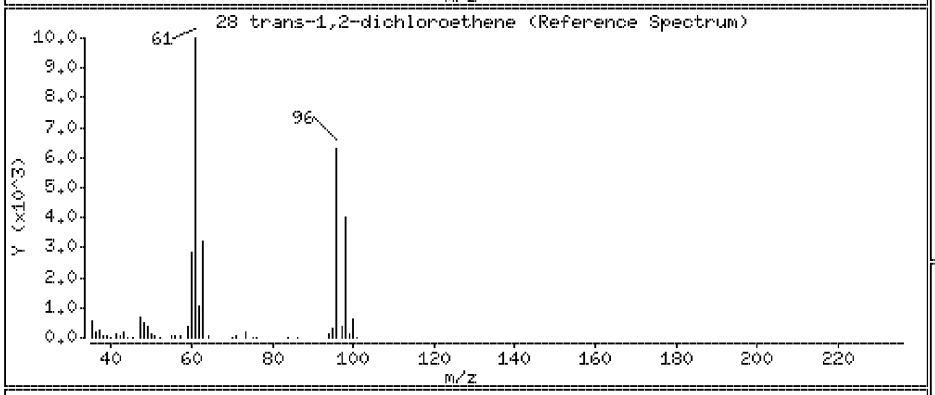
Column diameter: 0.32

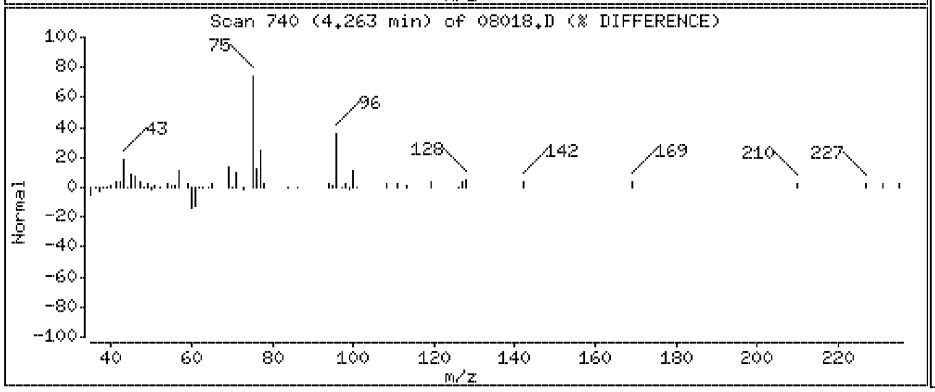
28 trans-1,2-dichloroethene

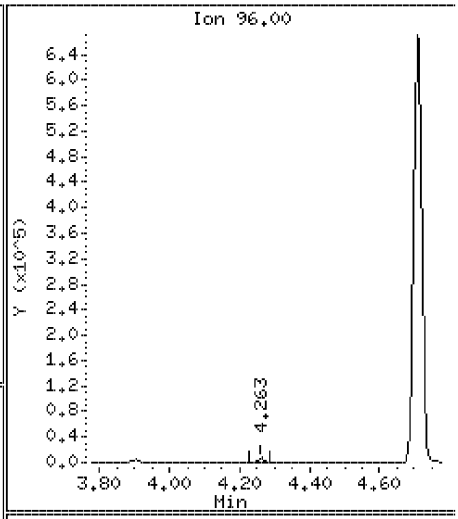
Concentration: 0.304 ppbv

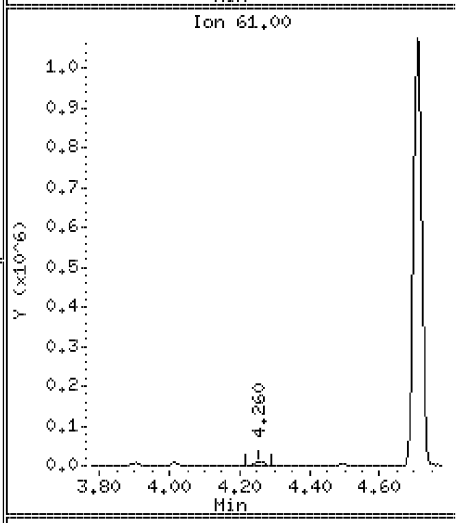


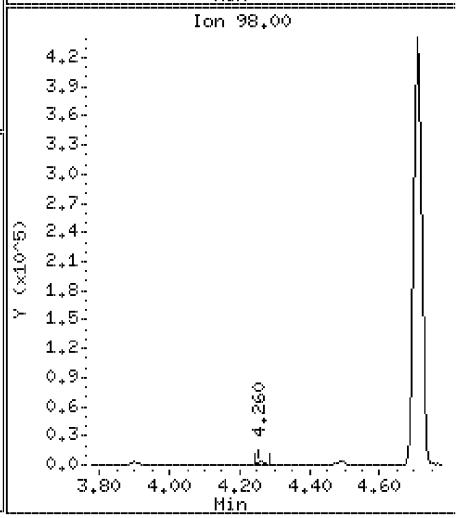












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

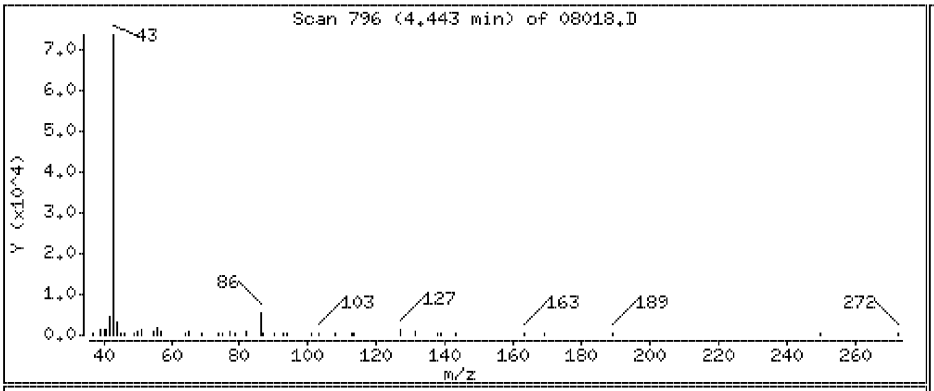
Operator: NCK

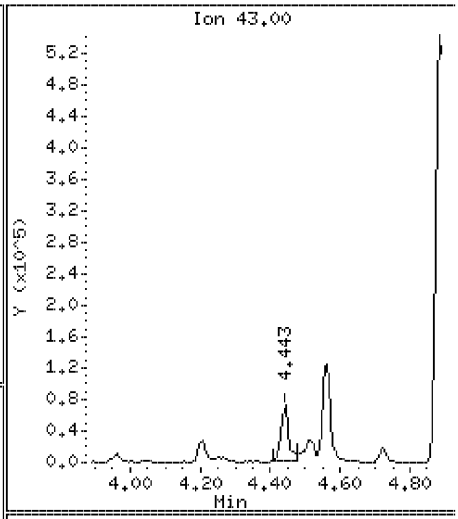
Column phase: J&W DB-5

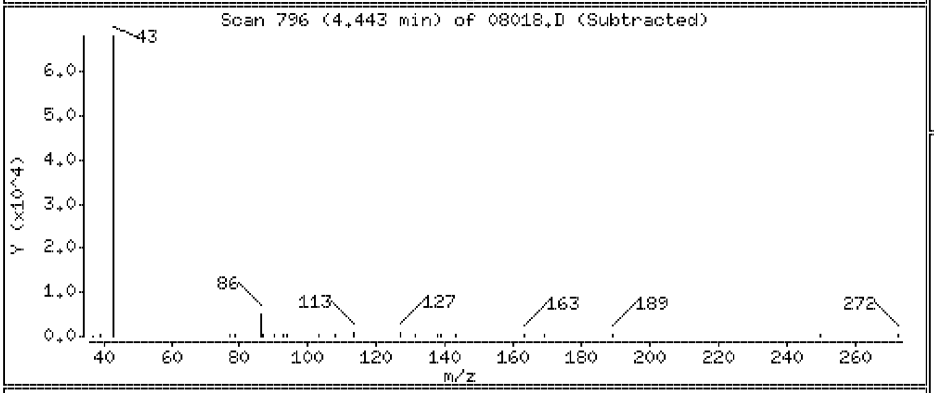
Column diameter: 0.32

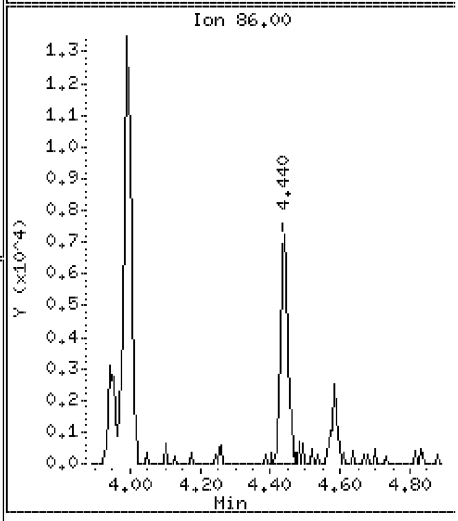
30 Vinyl Acetate

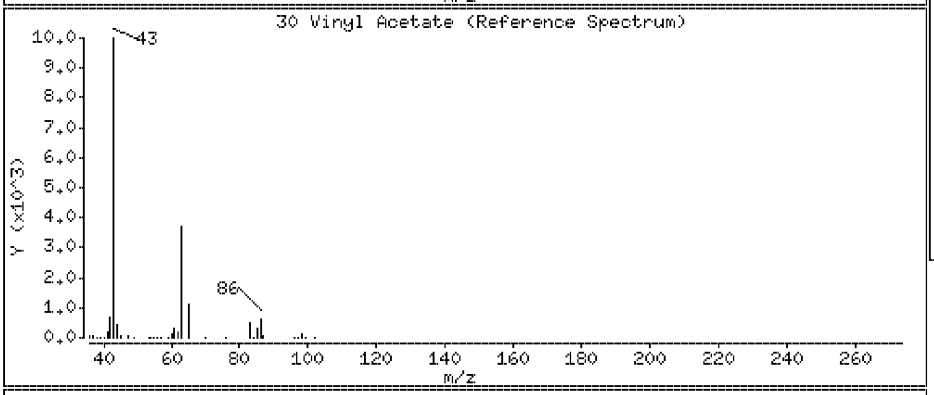
Concentration: 1.07 ppbv

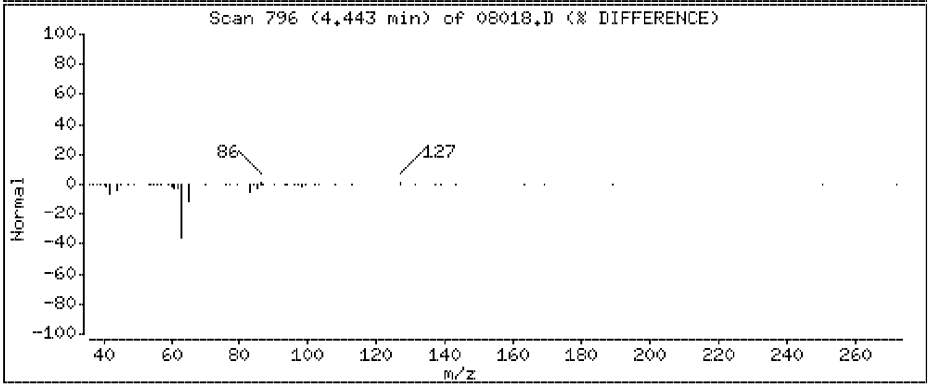












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

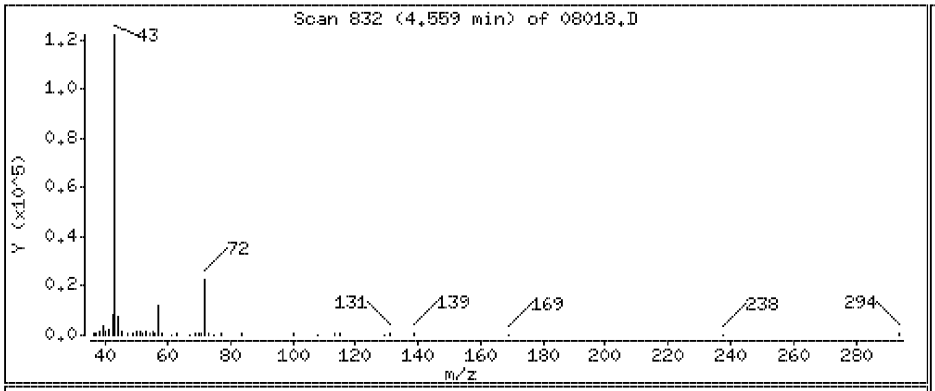
Operator: NCK

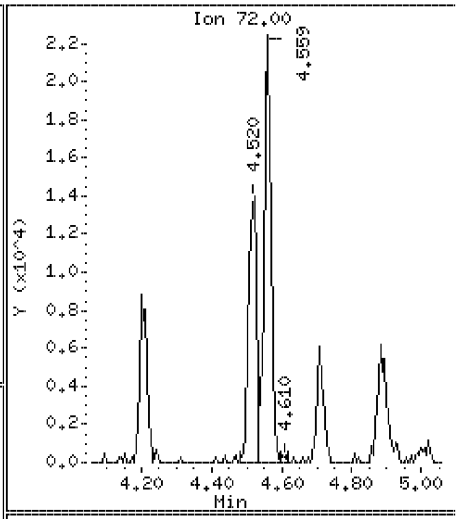
Column phase: J&W DB-5

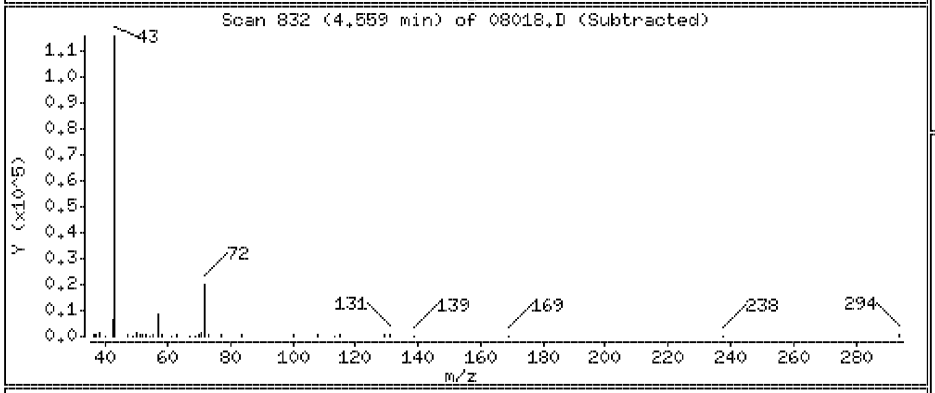
Column diameter: 0.32

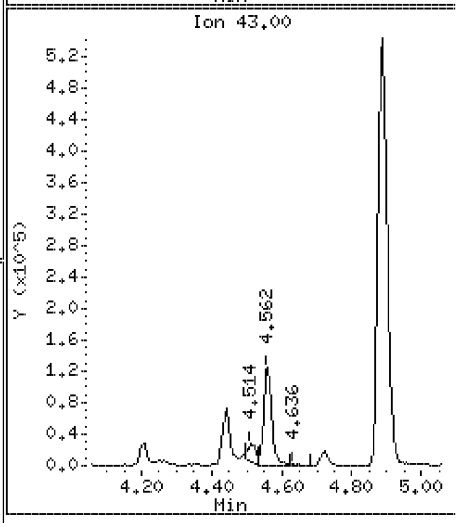
33 Methyl Ethyl Ketone

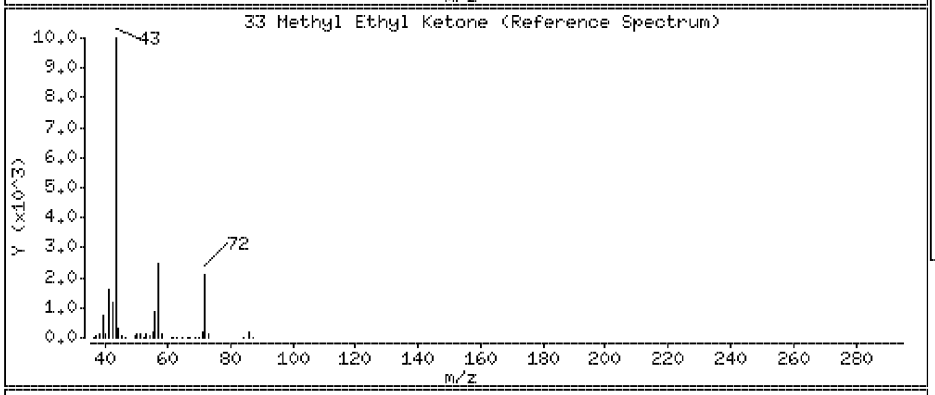
Concentration: 2.07 ppbv

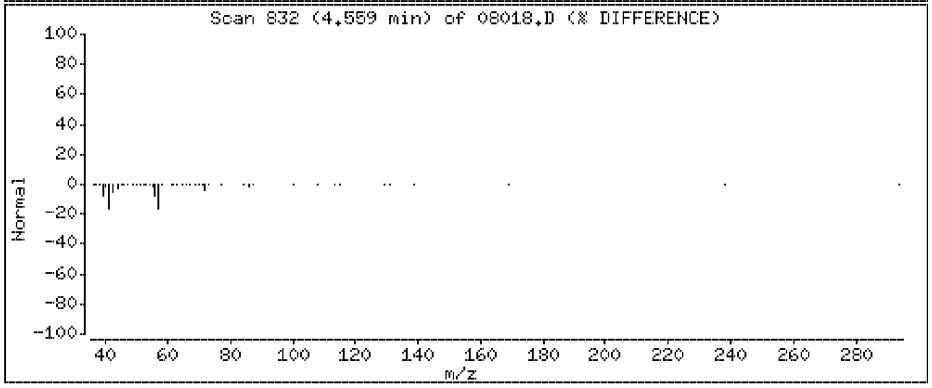












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

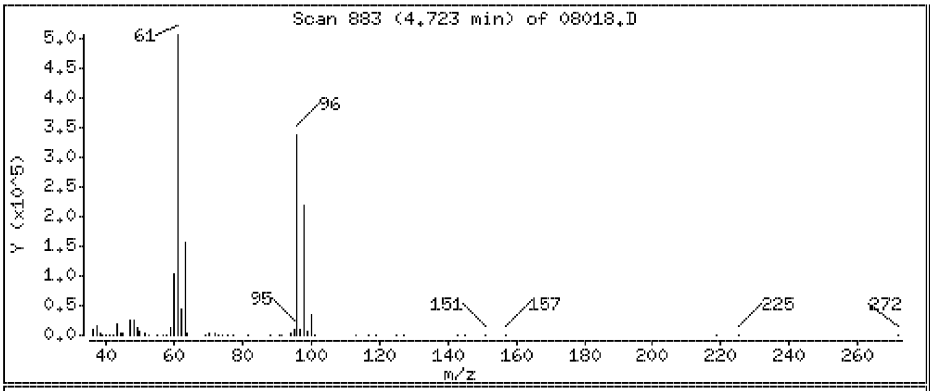
Operator: NCK

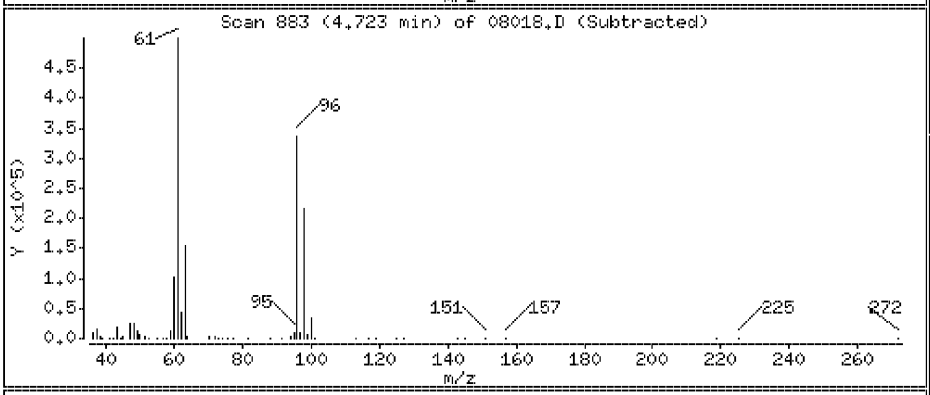
Column phase: J&W DB-5

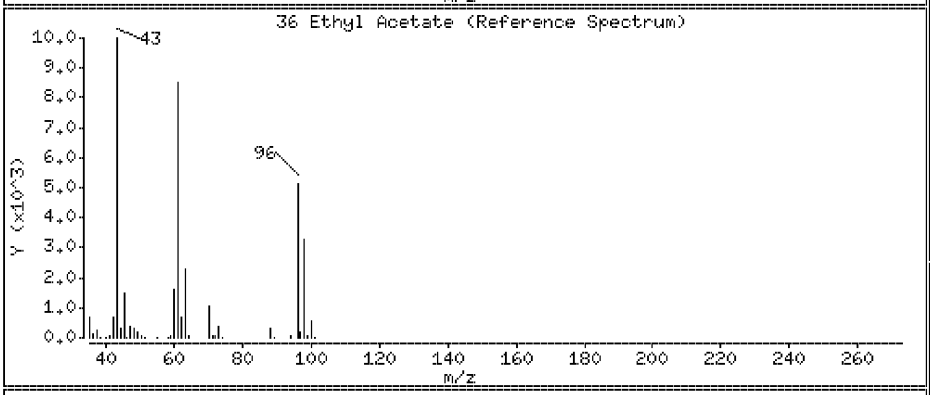
Column diameter: 0.32

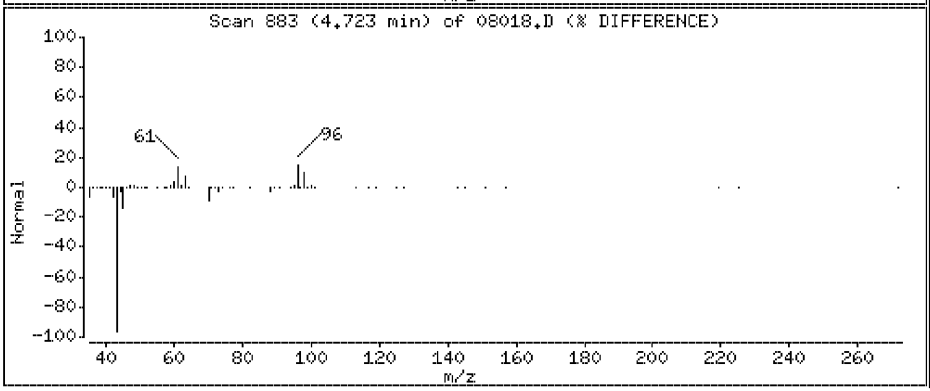
36 Ethyl Acetate

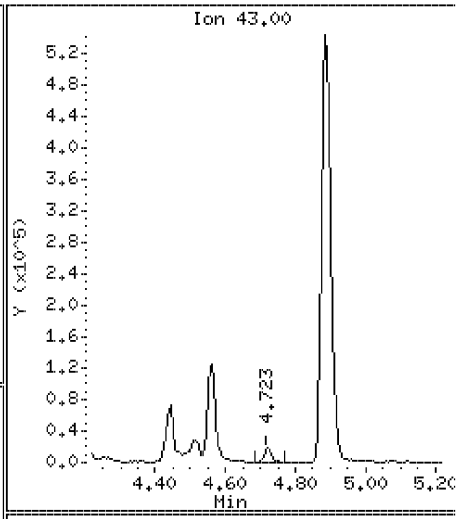
Concentration: 0.289 ppbv

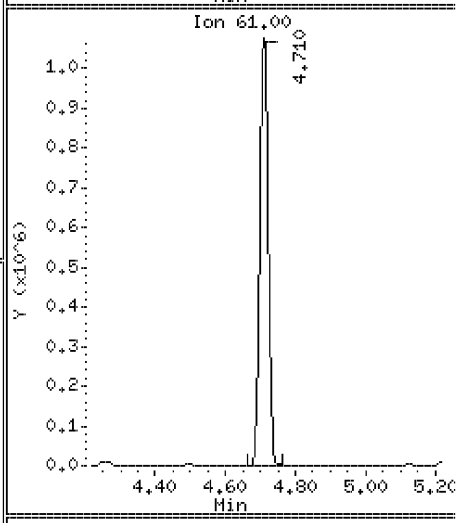


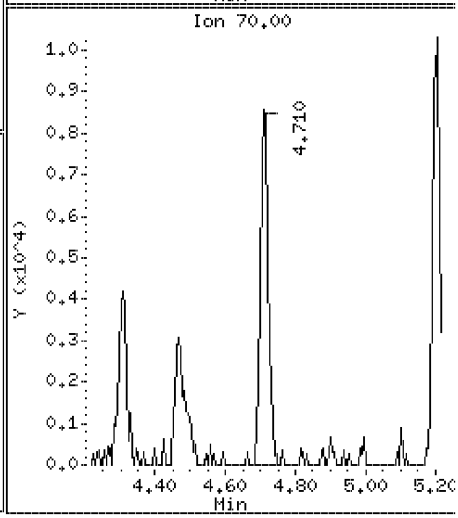












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

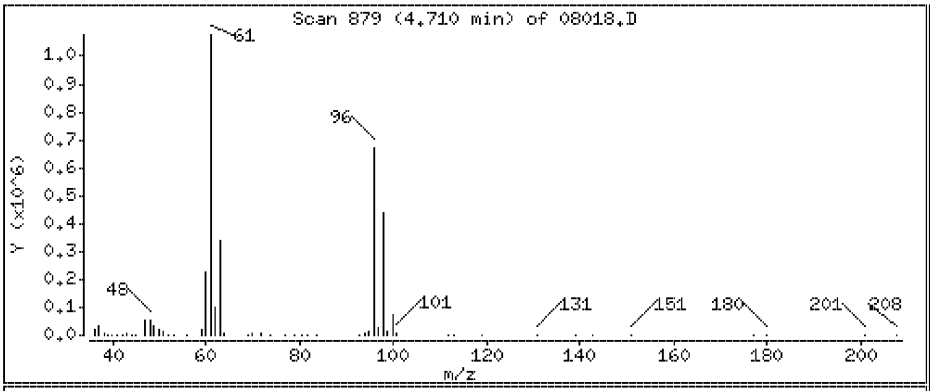
Operator: NCK

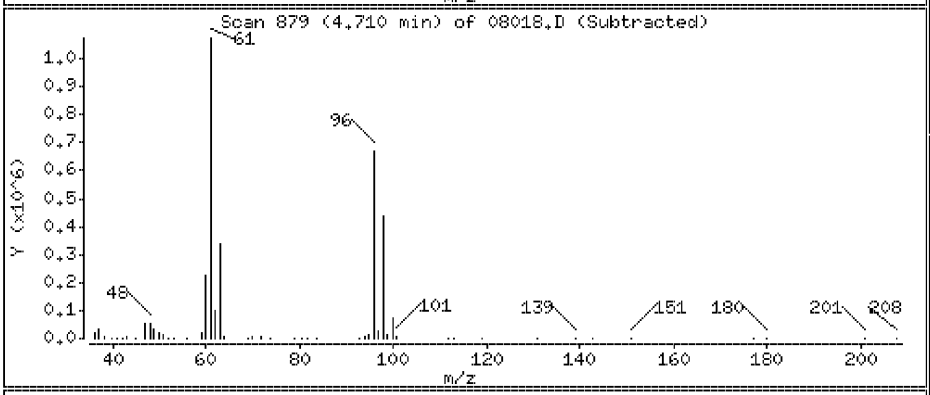
Column phase: J&W DB-5

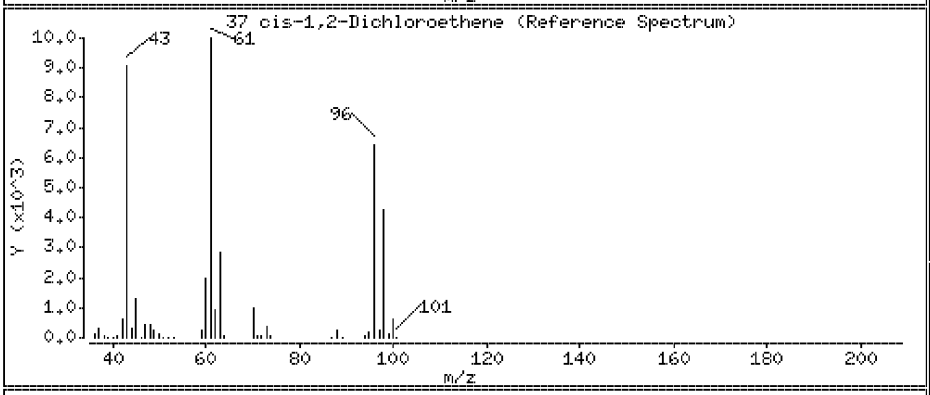
Column diameter: 0.32

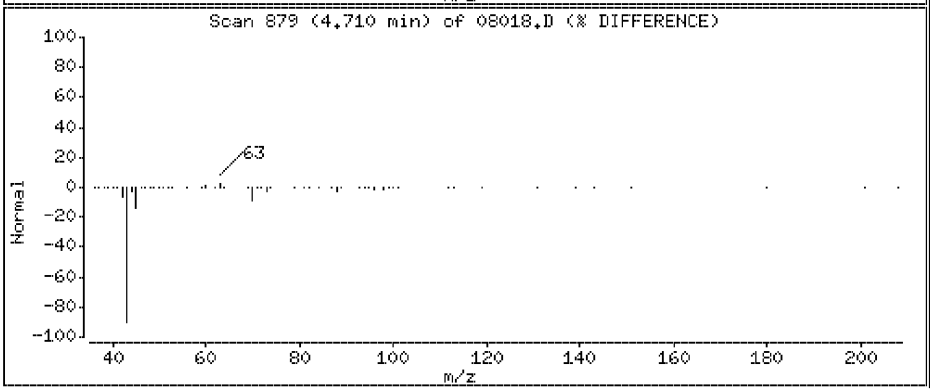
37 cis-1,2-Dichloroethene

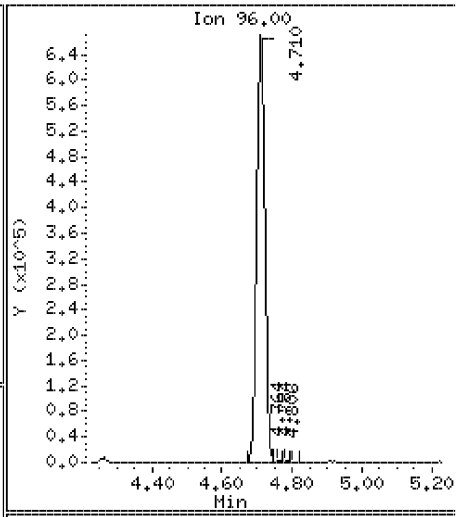
Concentration: 30.8 ppbv

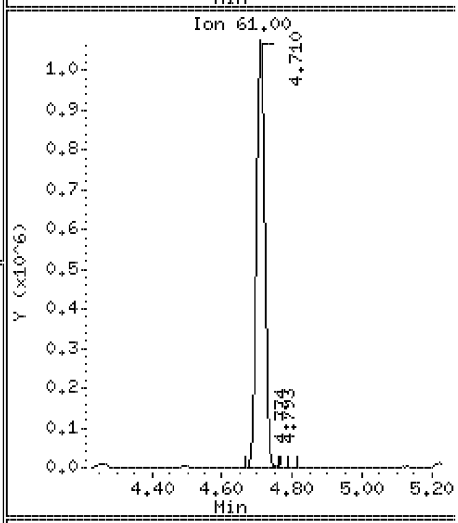


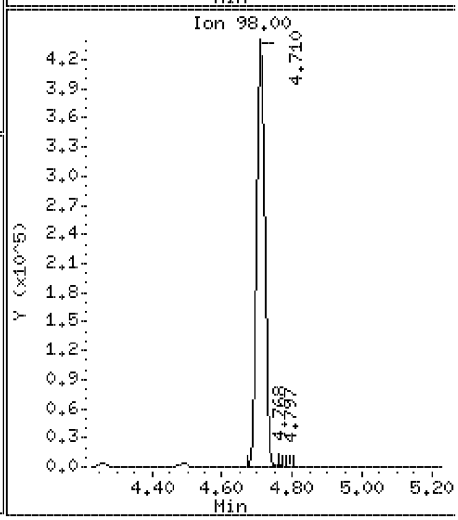












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

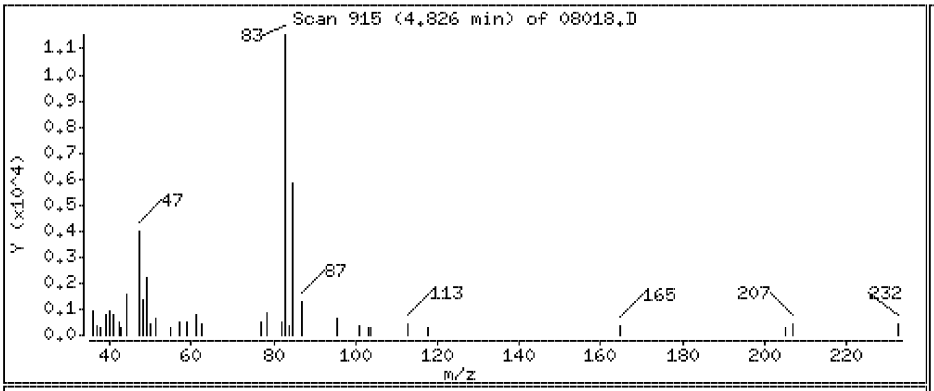
Operator: NCK

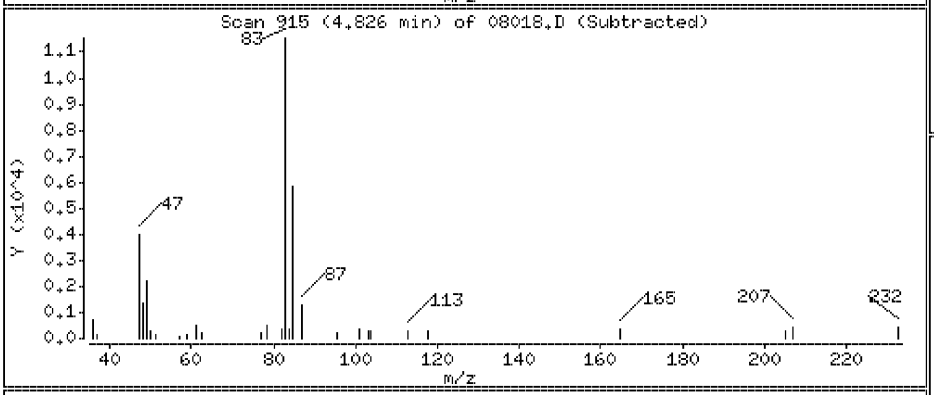
Column phase: J&W DB-5

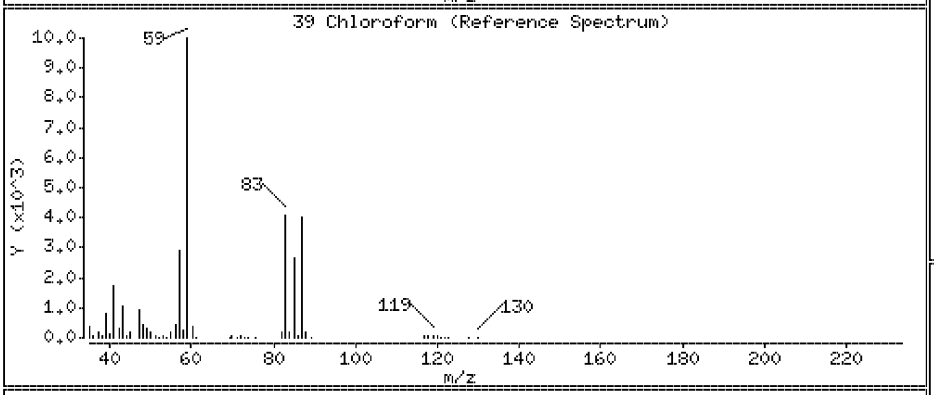
Column diameter: 0.32

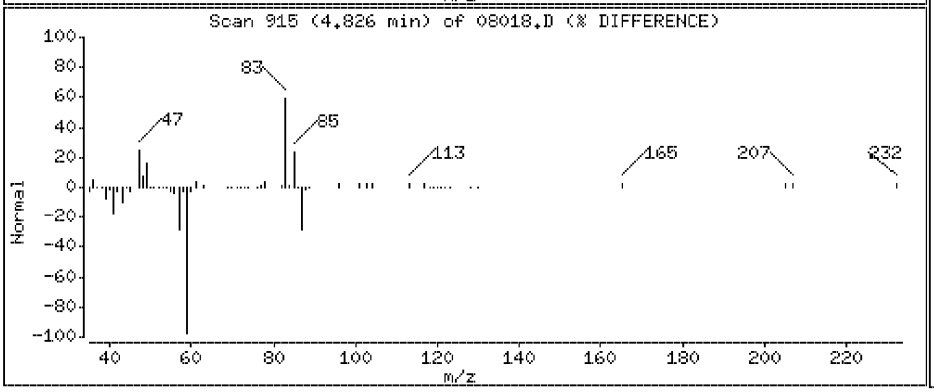
39 Chloroform

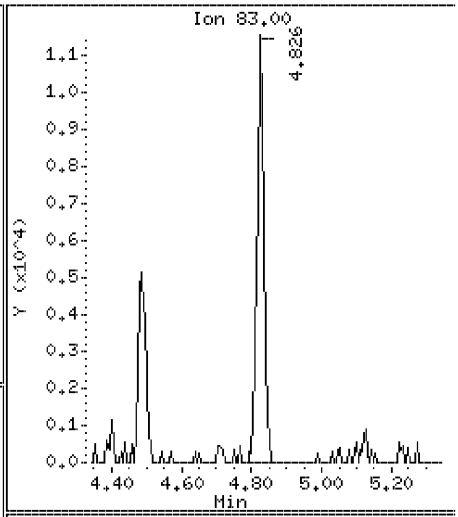
Concentration: 0.207 ppbv

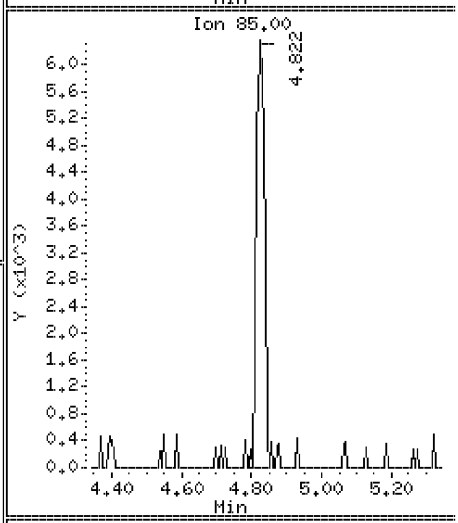


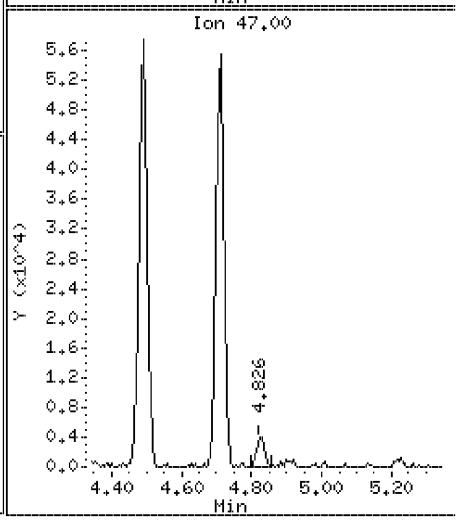












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

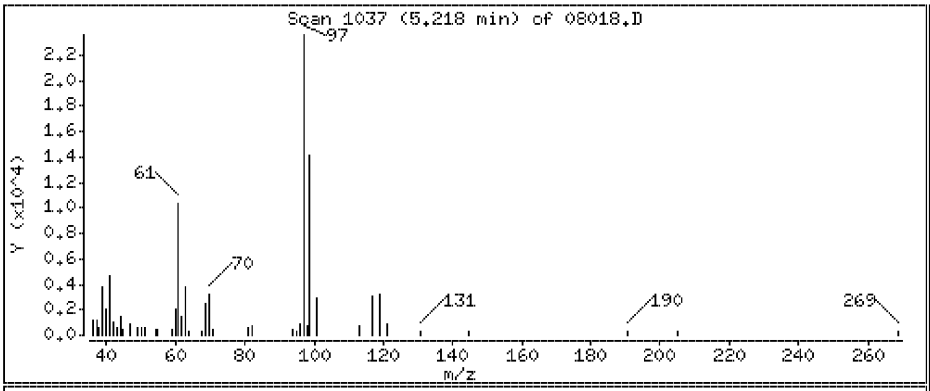
Operator: NCK

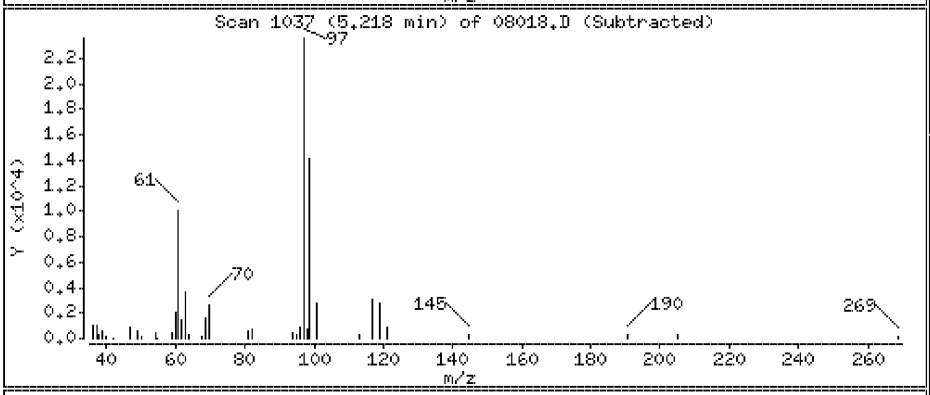
Column phase: J&W DB-5

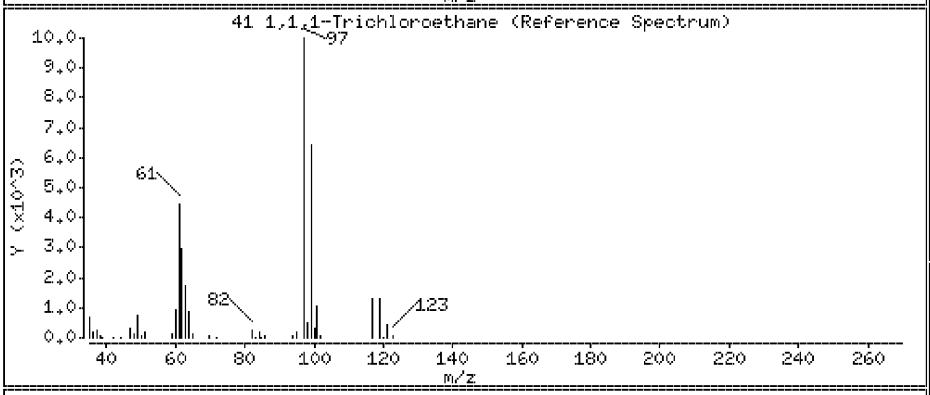
Column diameter: 0.32

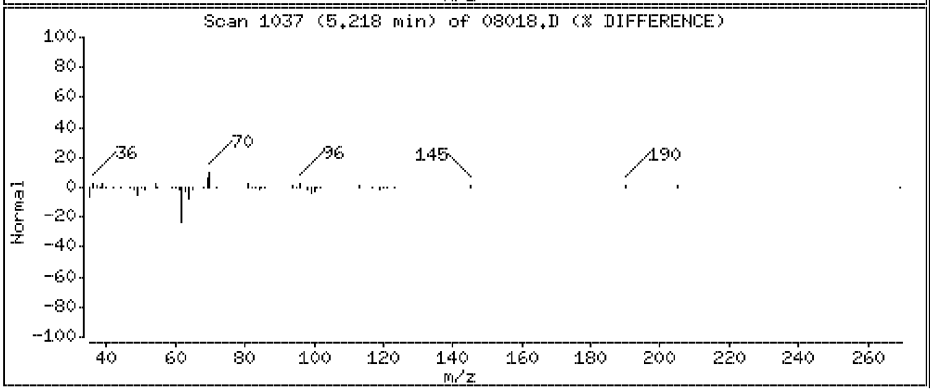
41 1,1,1-Trichloroethane

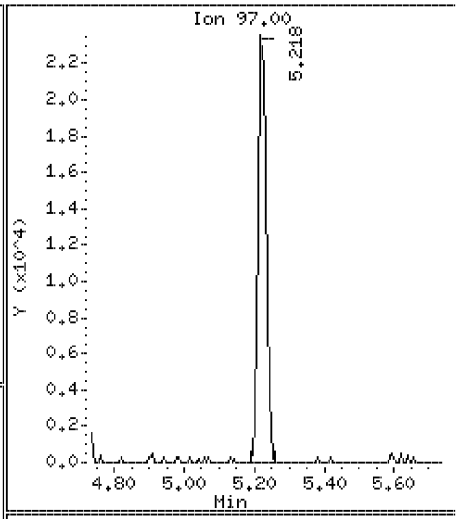
Concentration: 0.435 ppbv

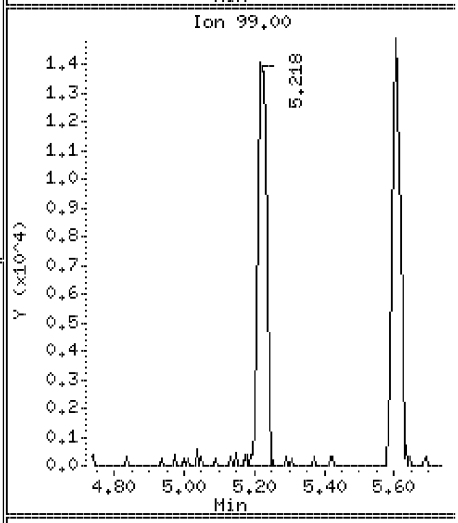


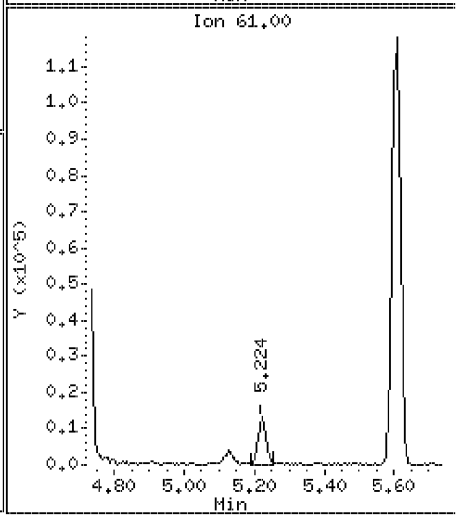












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

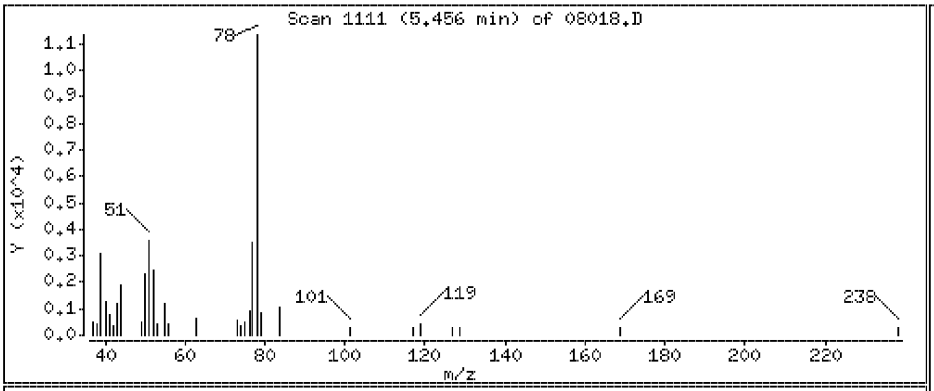
Operator: NCK

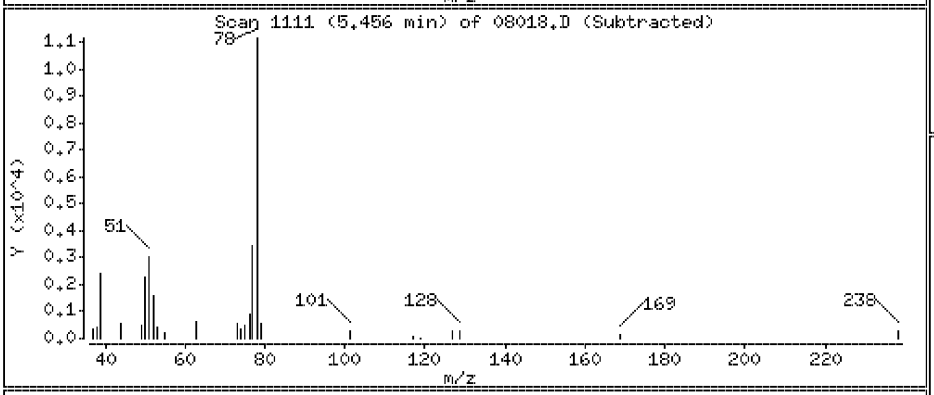
Column phase: J&W DB-5

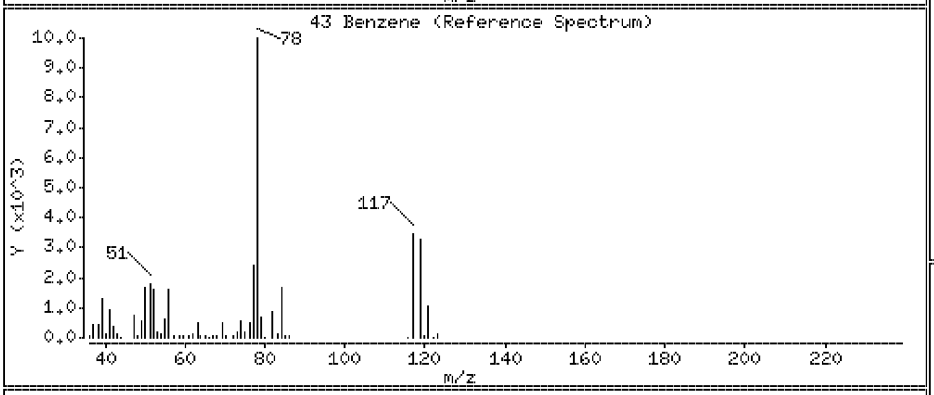
Column diameter: 0.32

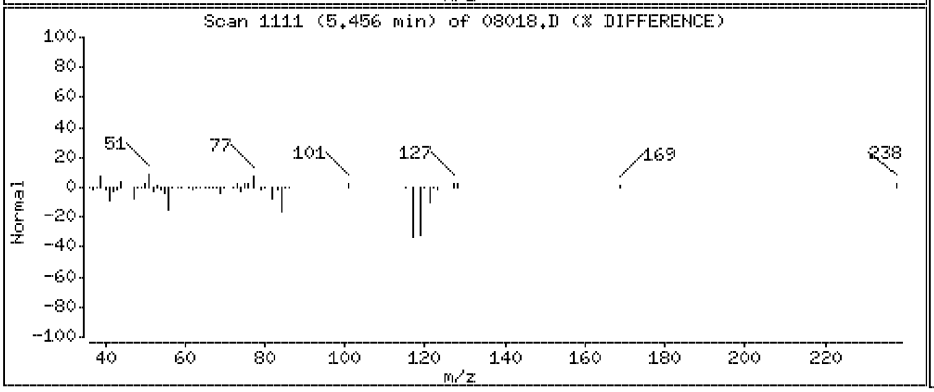
43 Benzene

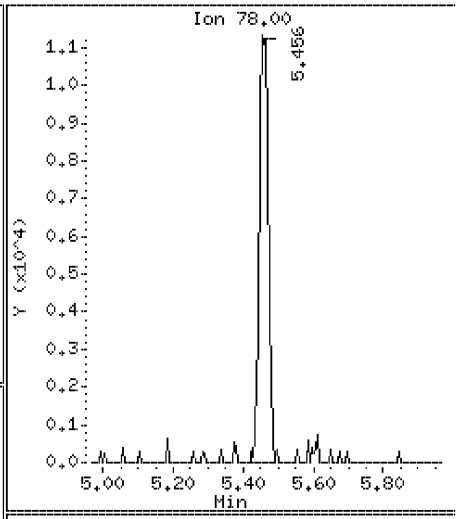
Concentration: 0.171 ppbv

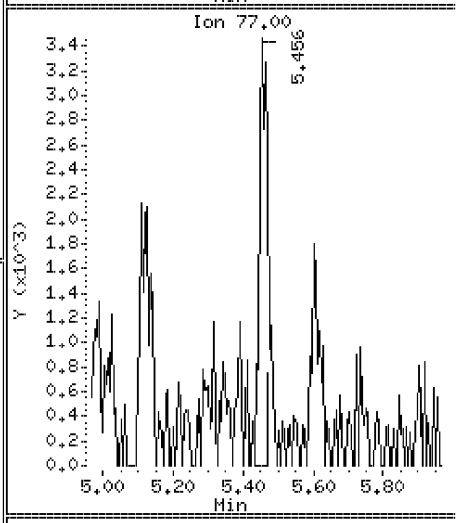


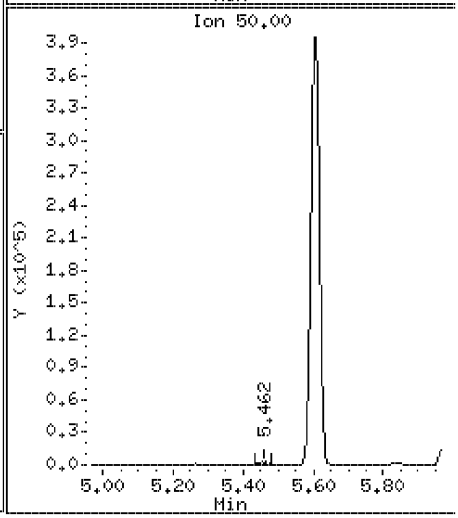












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

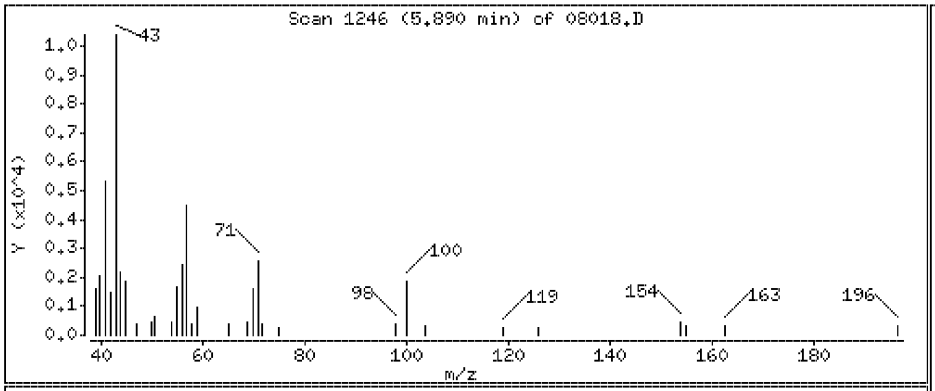
Operator: NCK

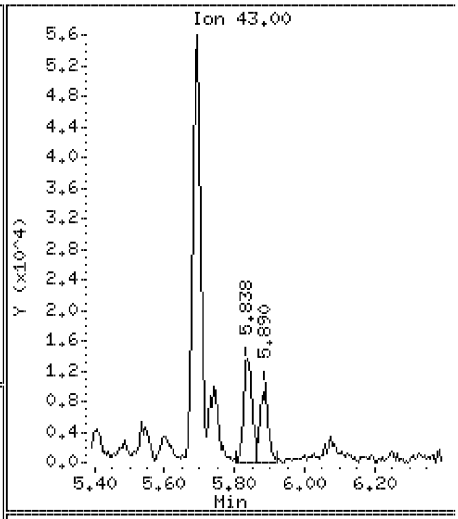
Column phase: J&W DB-5

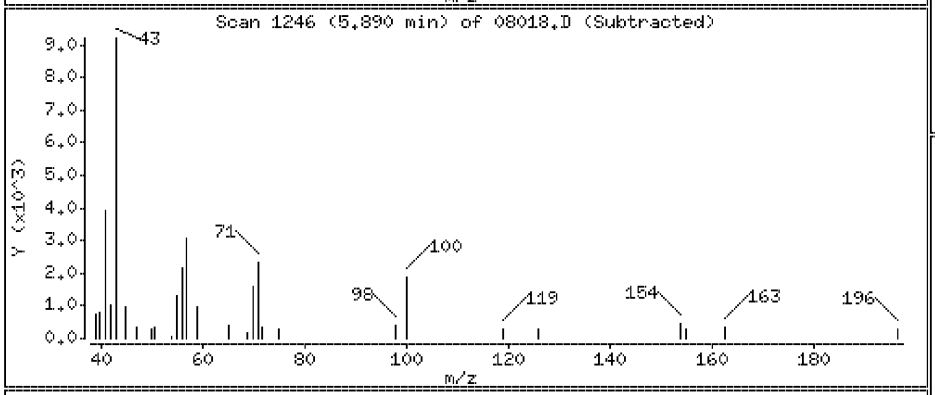
Column diameter: 0.32

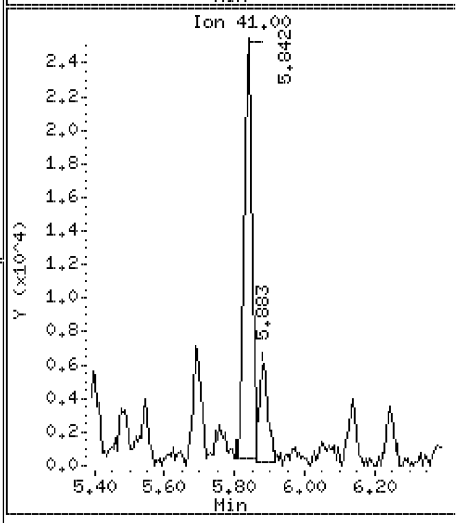
49 Heptane

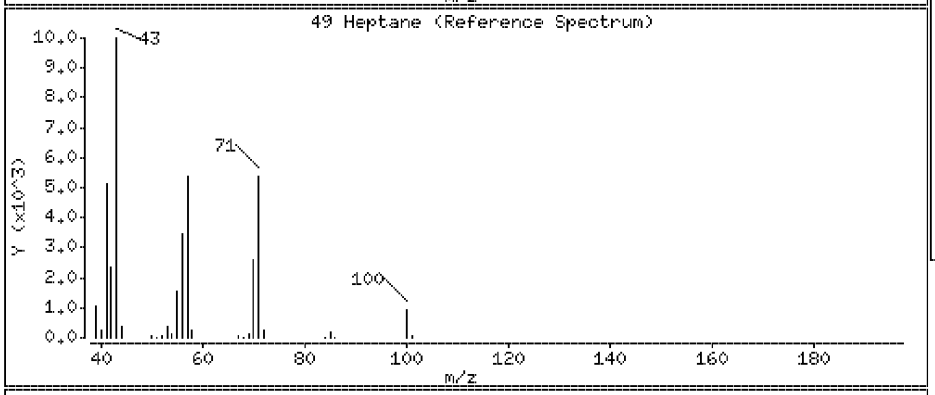
Concentration: 0.197 ppbv

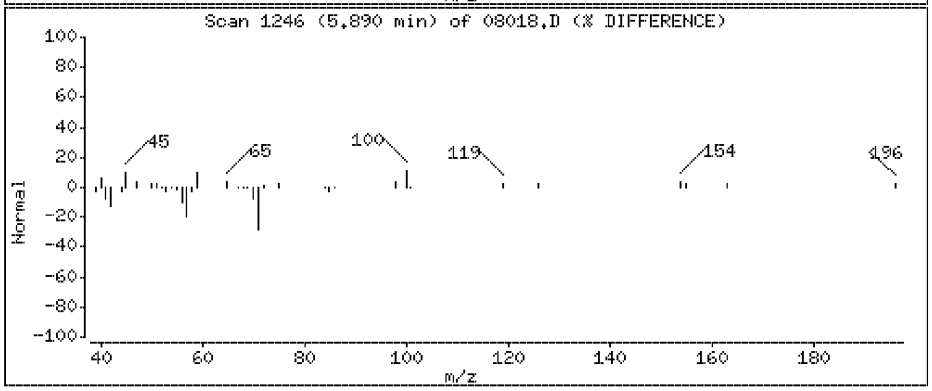












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

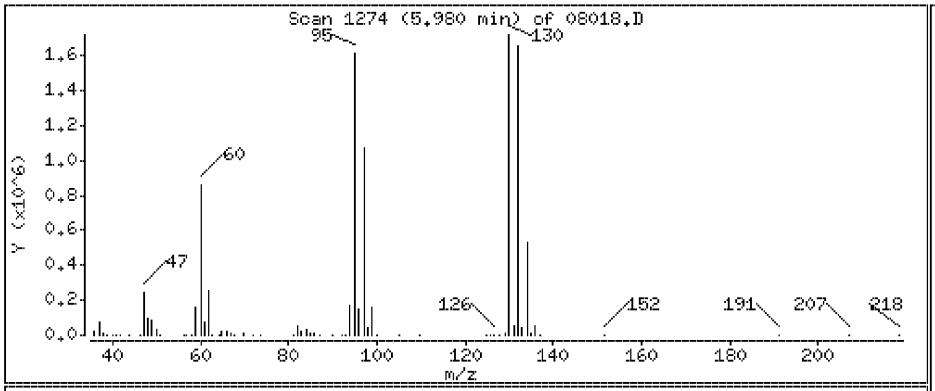
Operator: NCK

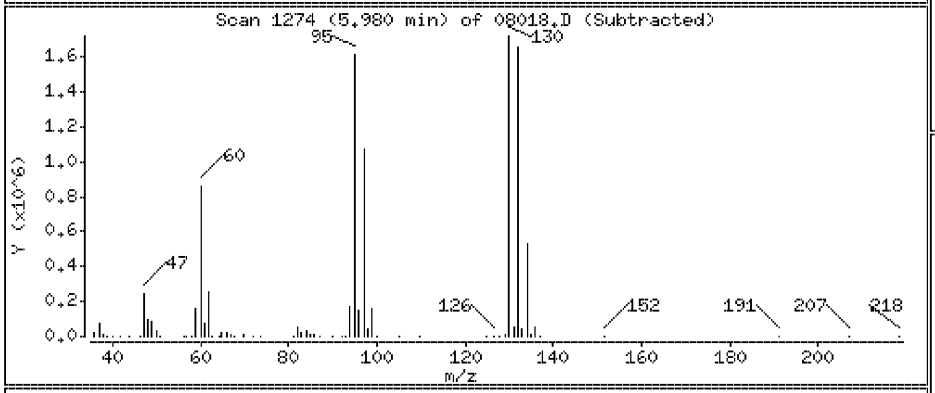
Column phase: J&W DB-5

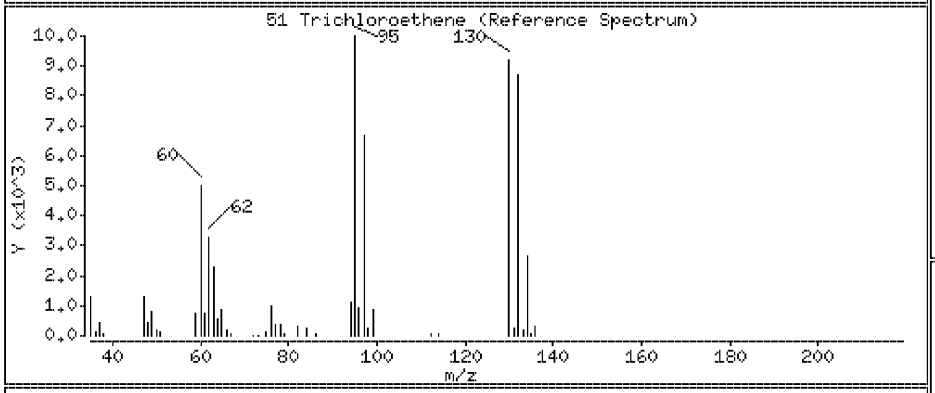
Column diameter: 0.32

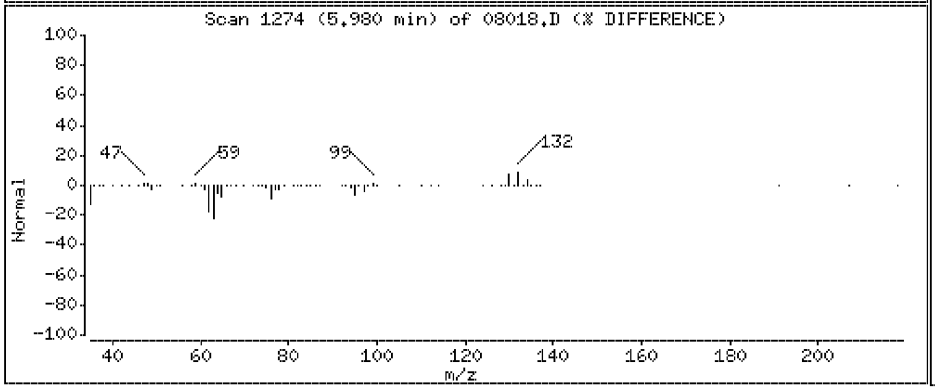
51 Trichloroethene

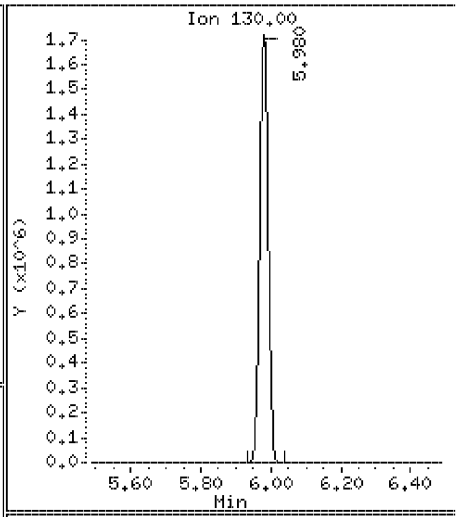
Concentration: 52.6 ppbv

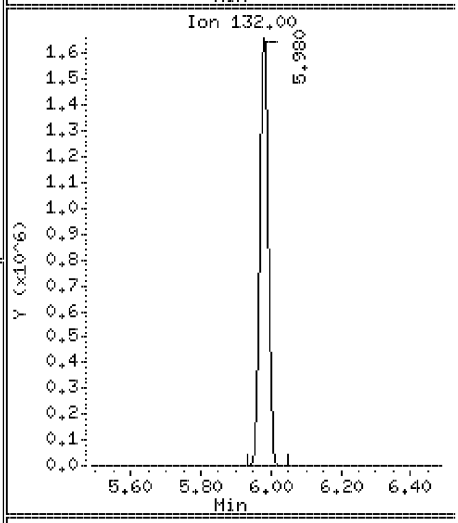


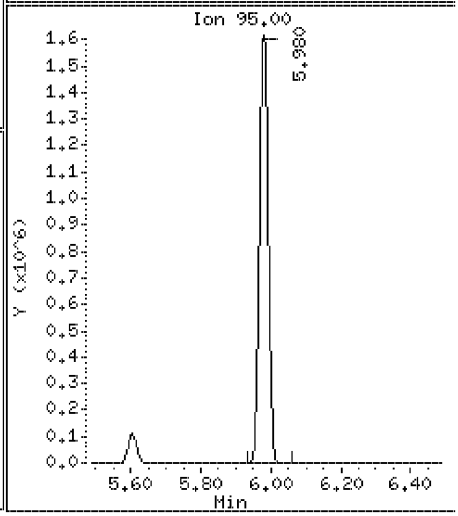












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

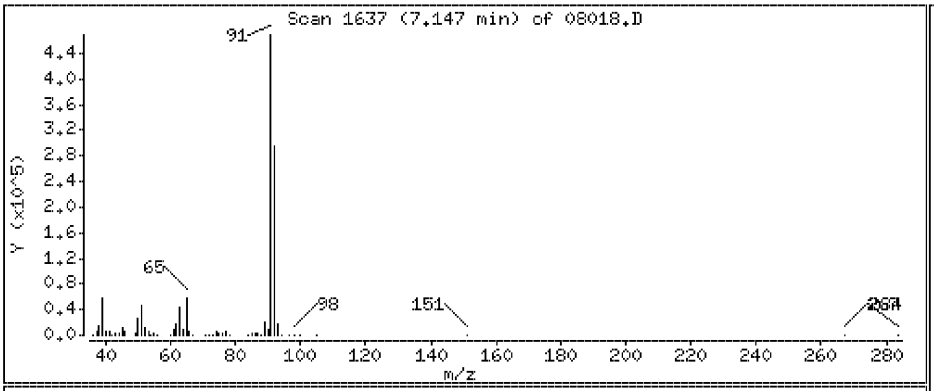
Operator: NCK

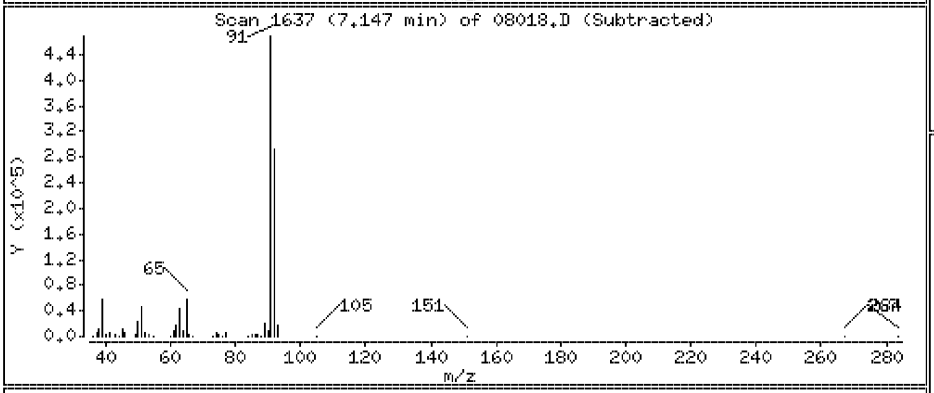
Column phase: J&W DB-5

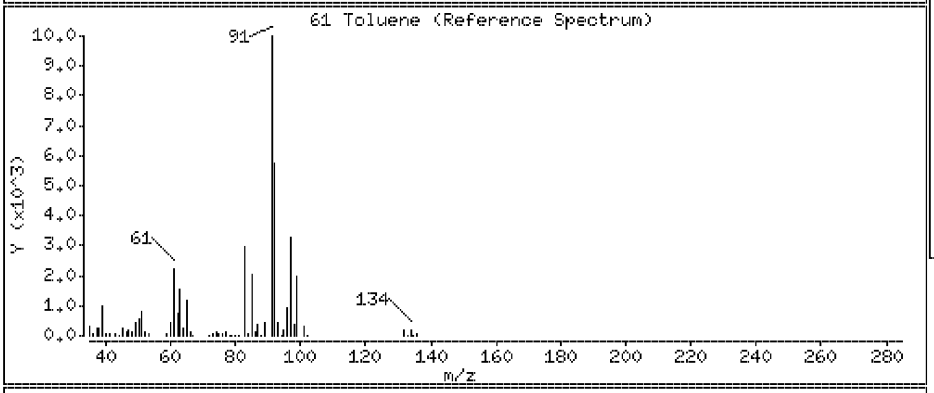
Column diameter: 0.32

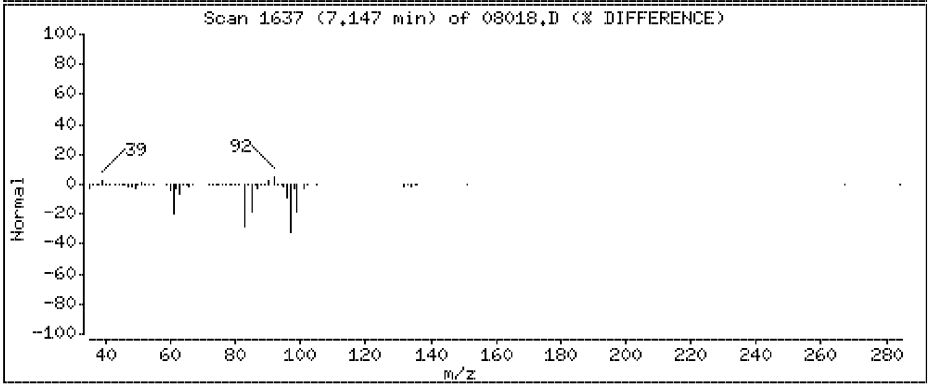
61 Toluene

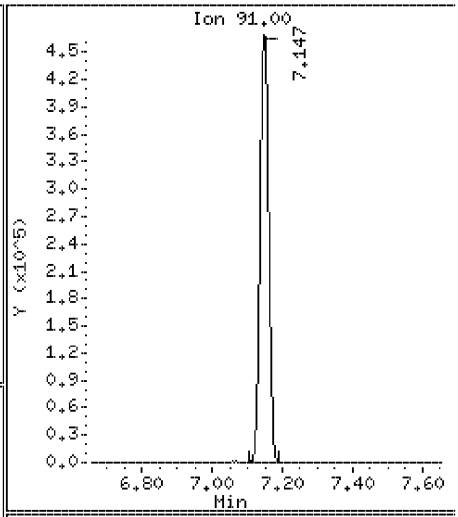
Concentration: 5.91 ppbv

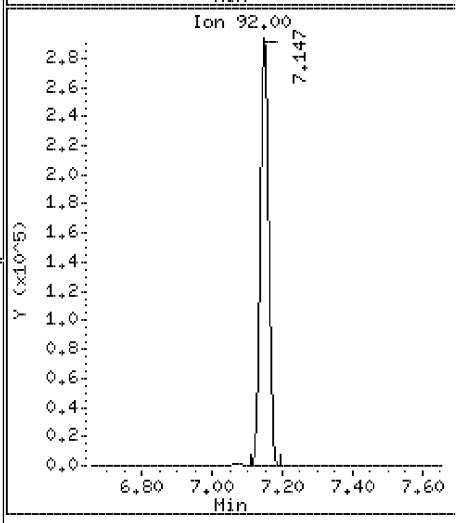












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

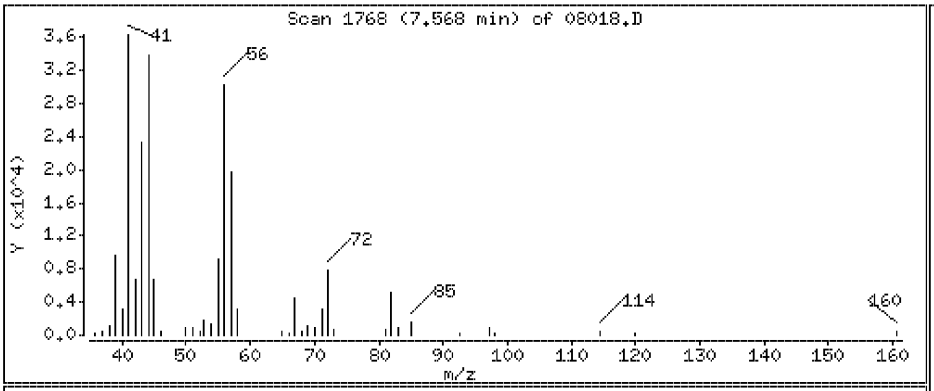
Operator: NCK

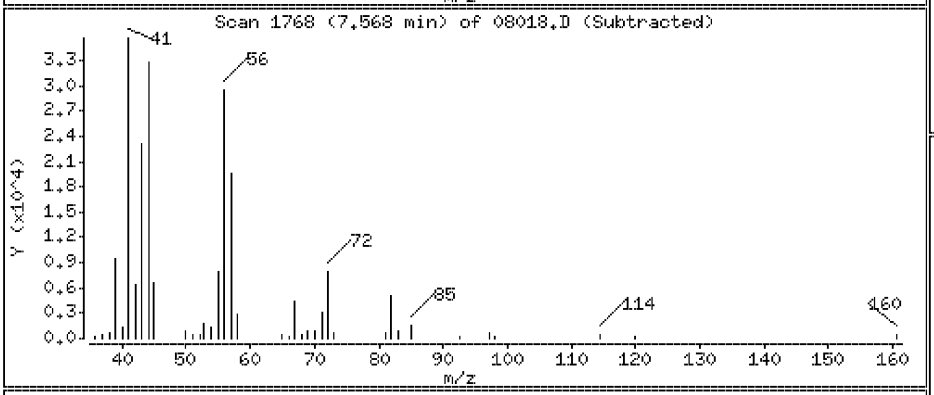
Column phase: J&W DB-5

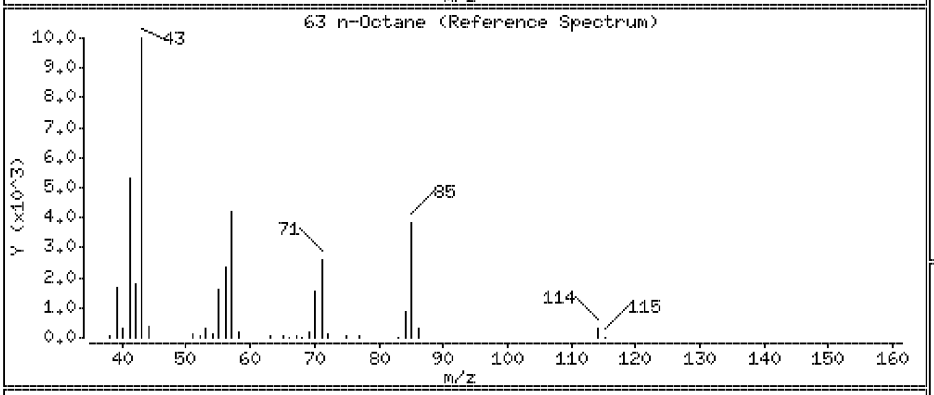
Column diameter: 0.32

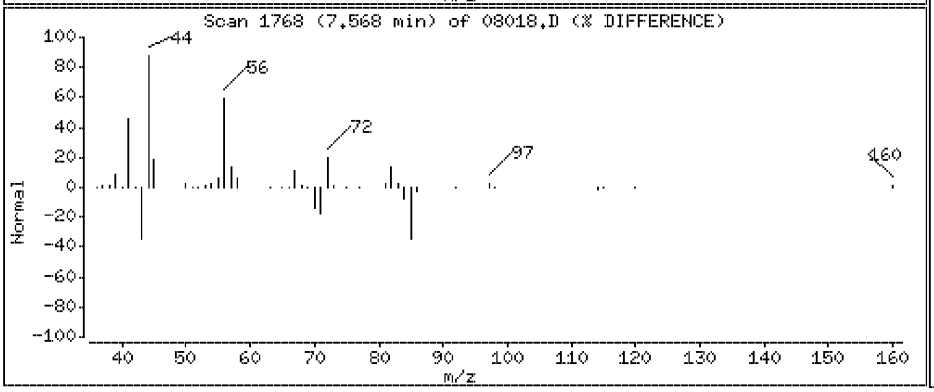
63 n-Octane

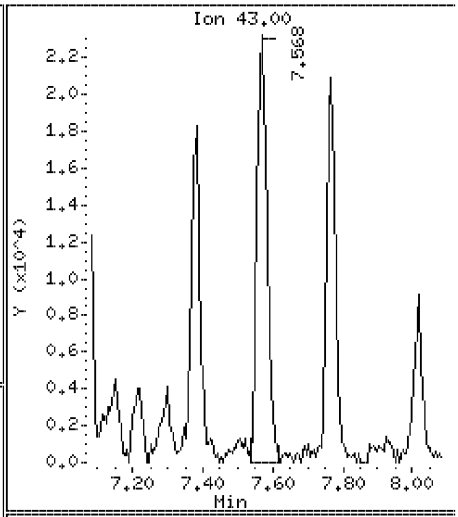
Concentration: 0.486 ppbv

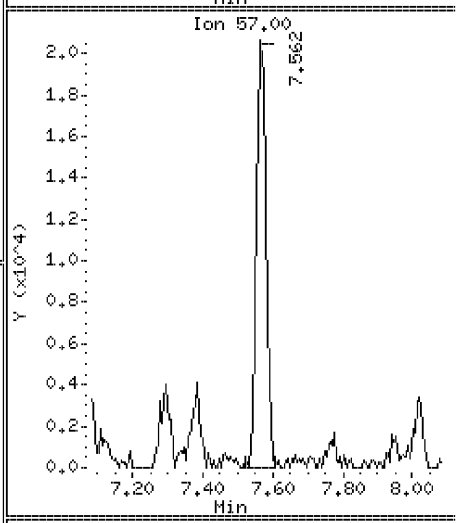


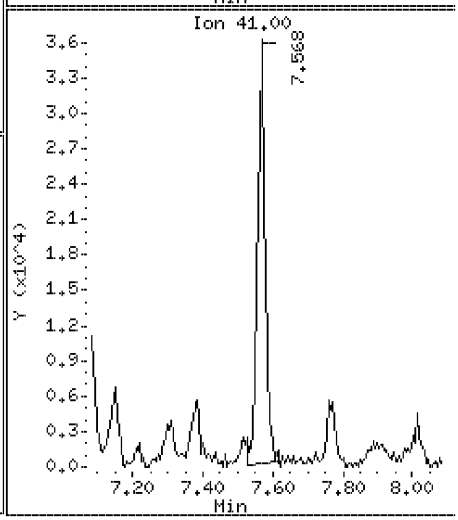












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

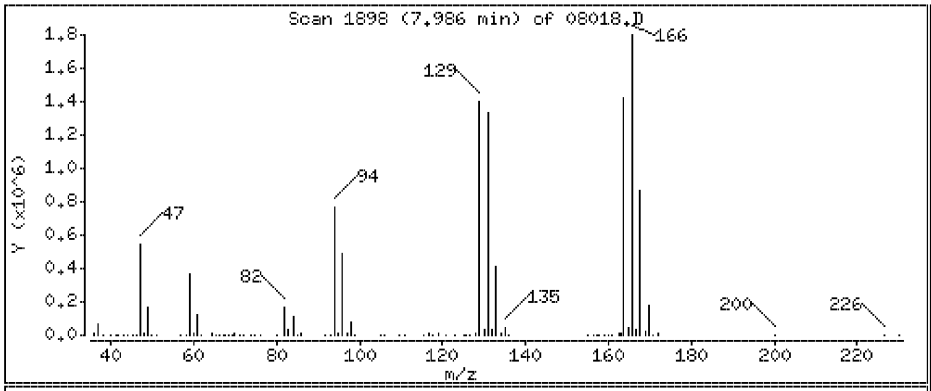
Operator: NCK

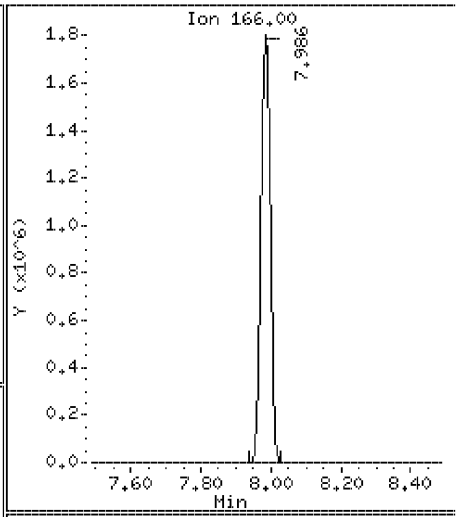
Column phase: J&W DB-5

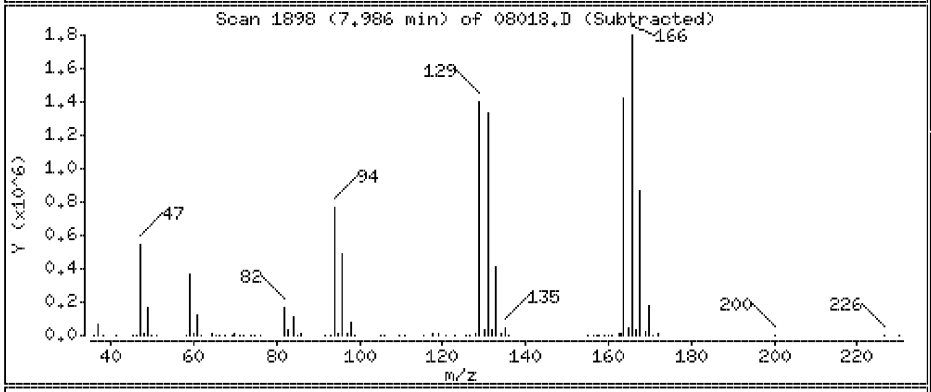
Column diameter: 0.32

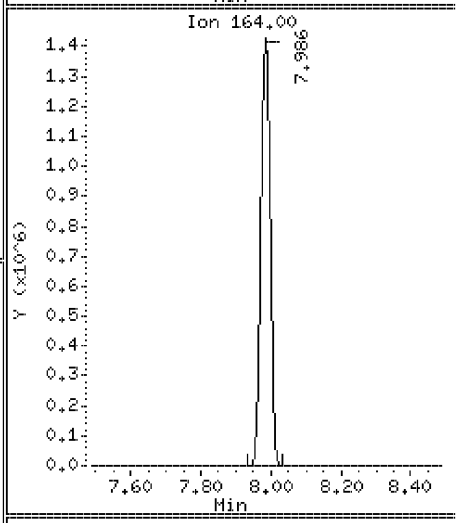
66 Tetrachloroethene

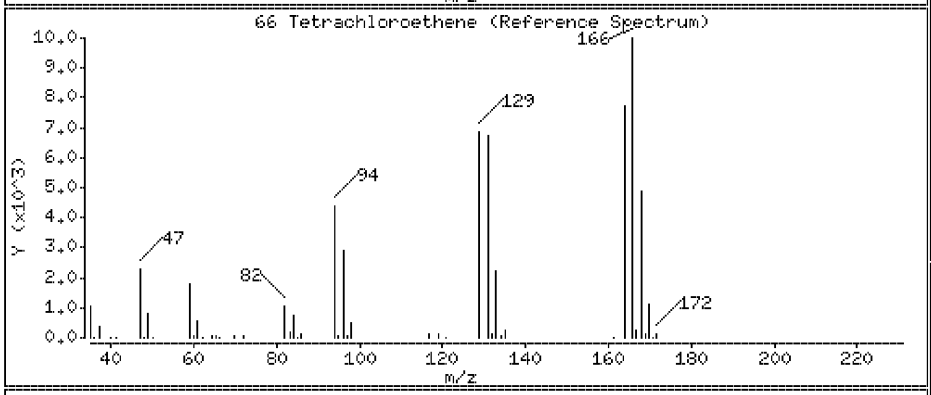
Concentration: 56.6 ppbv

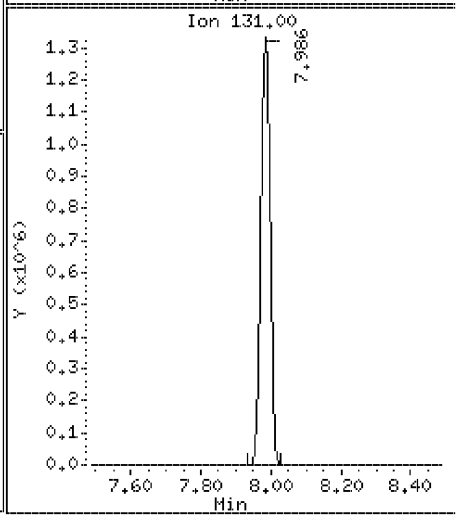


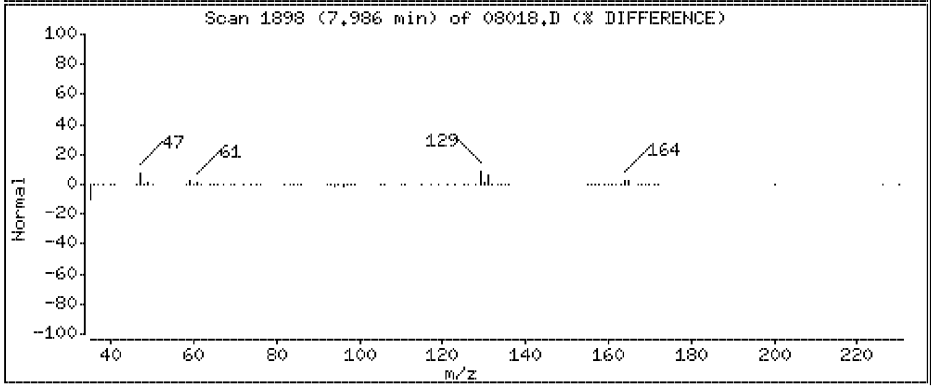












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

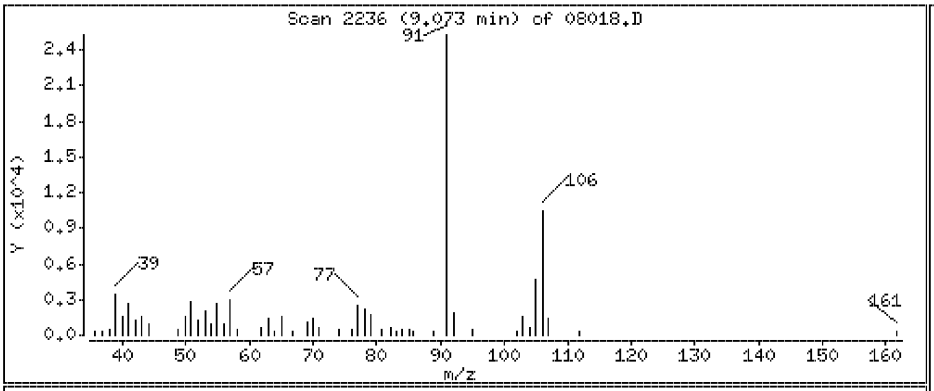
Operator: NCK

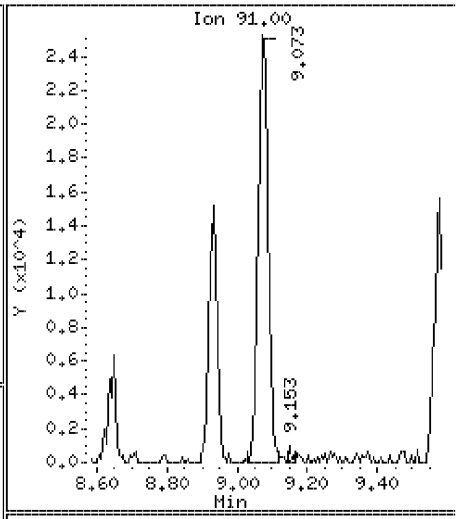
Column phase: J&W DB-5

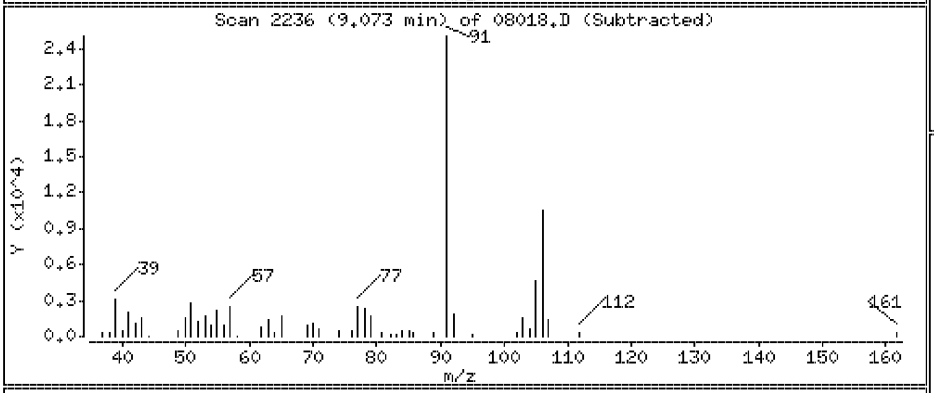
Column diameter: 0.32

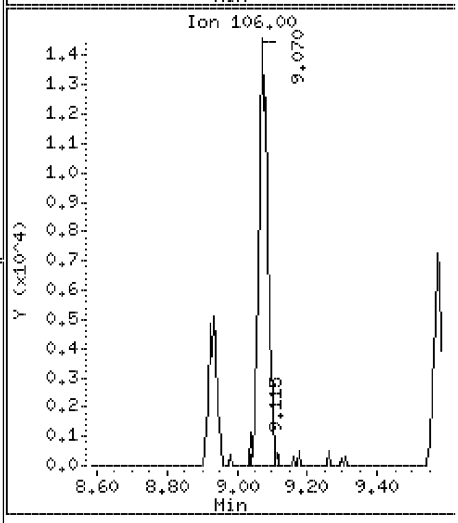
70 m&p-Xylene

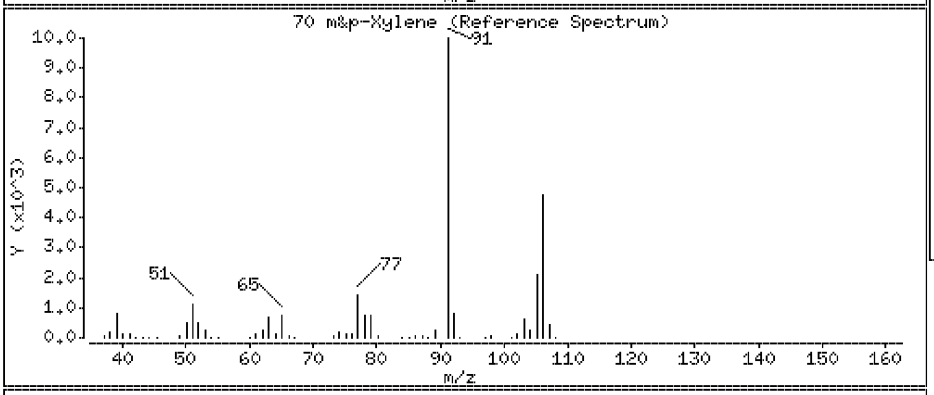
Concentration: 0.626 ppbv

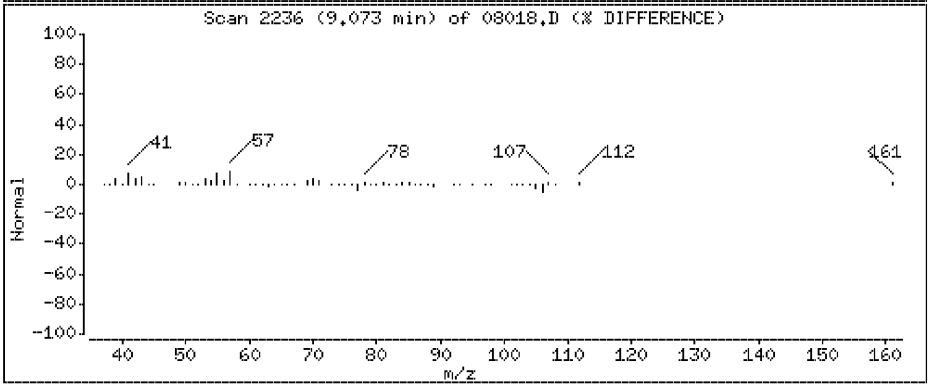












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

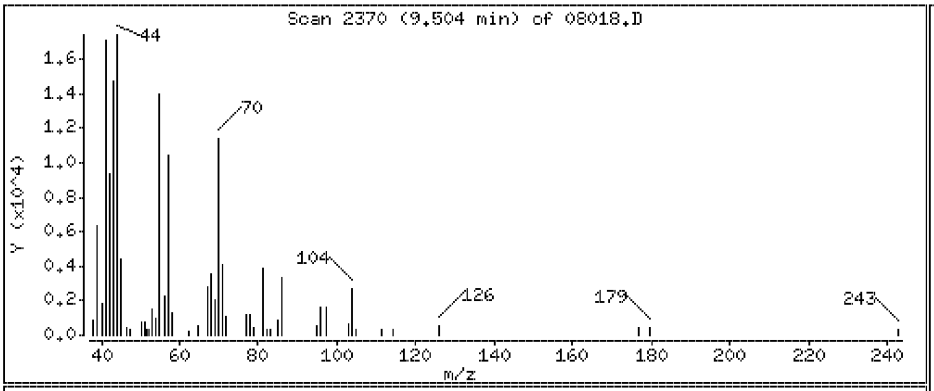
Operator: NCK

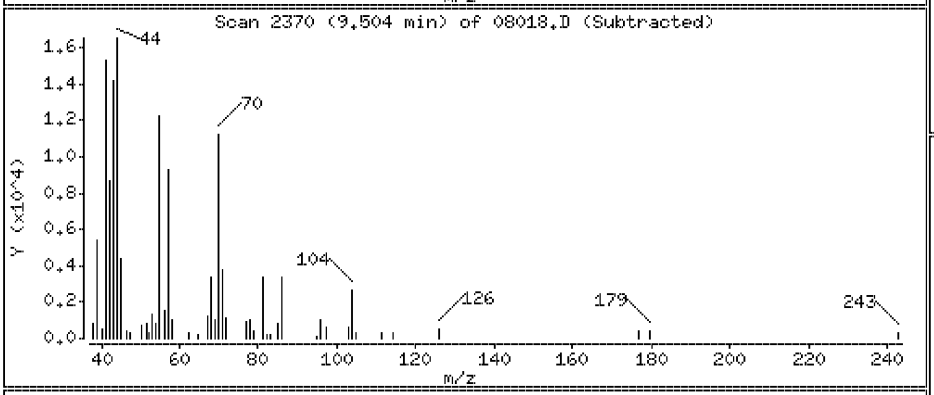
Column phase: J&W DB-5

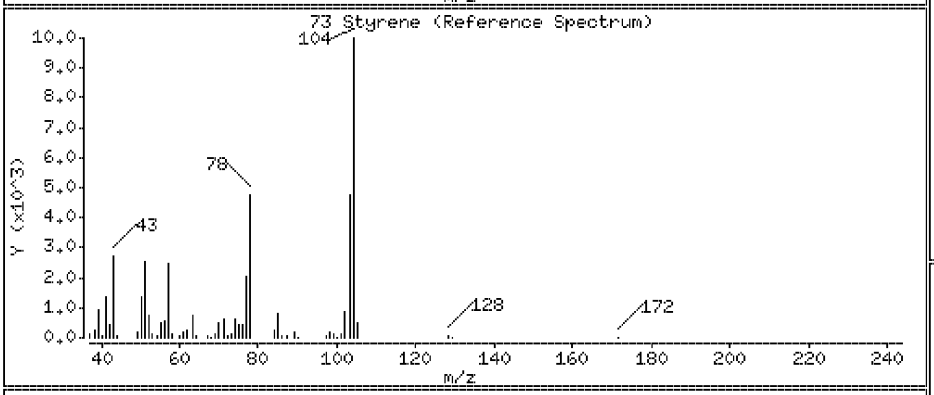
Column diameter: 0.32

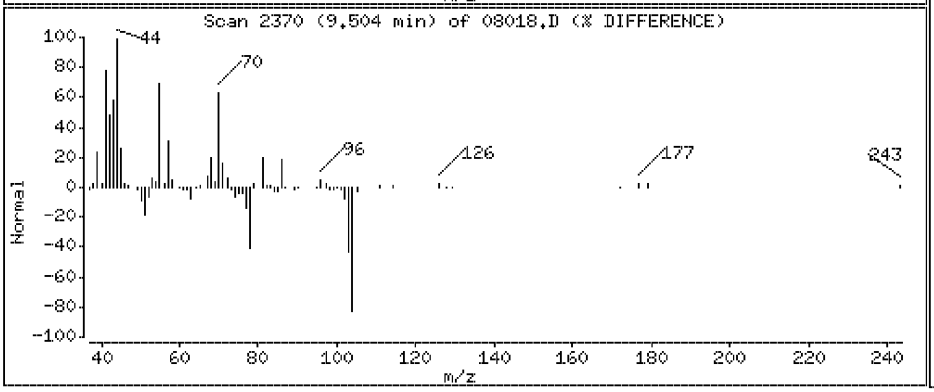
73 Styrene

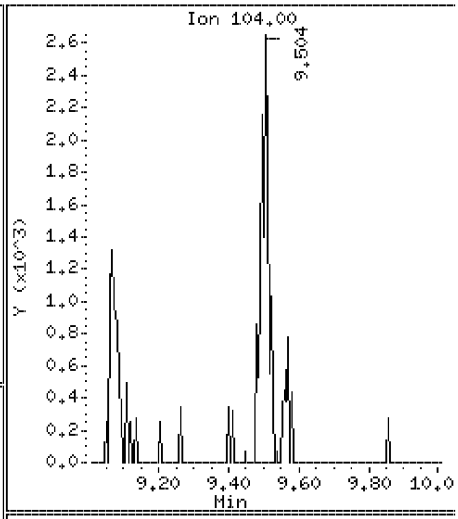
Concentration: 0.253 ppbv

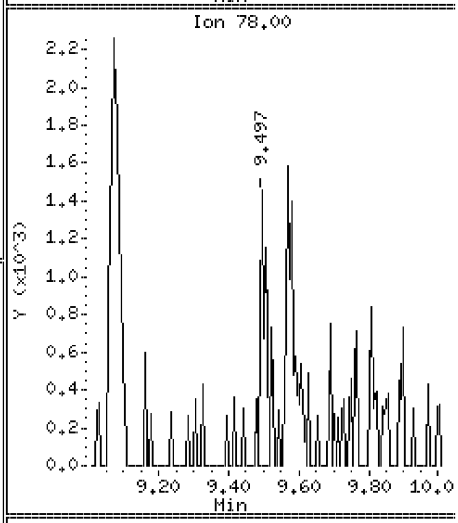


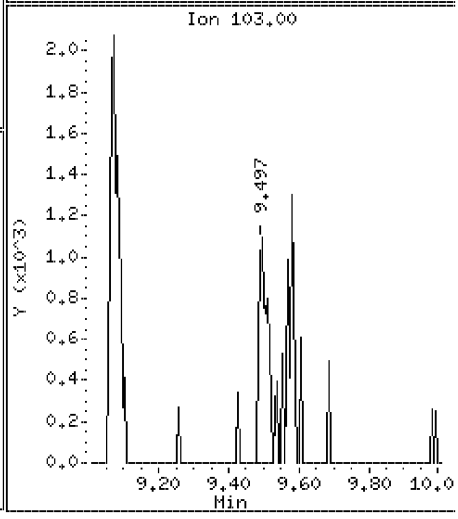












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

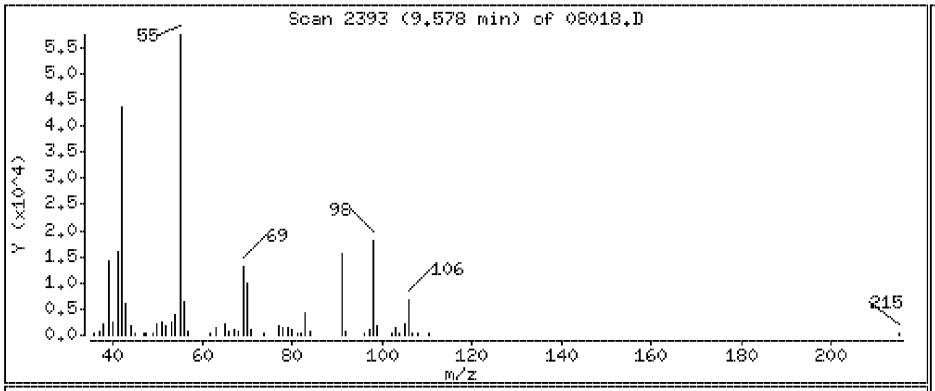
Operator: NCK

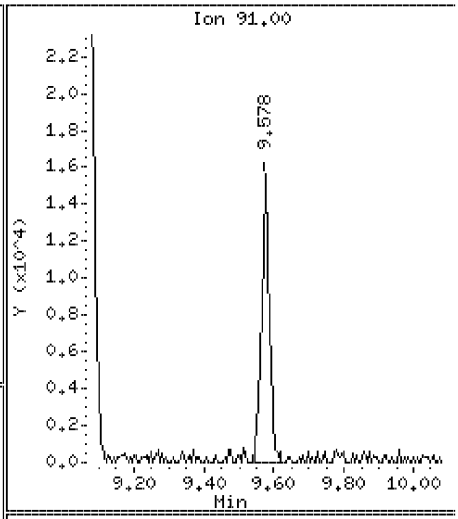
Column phase: J&W DB-5

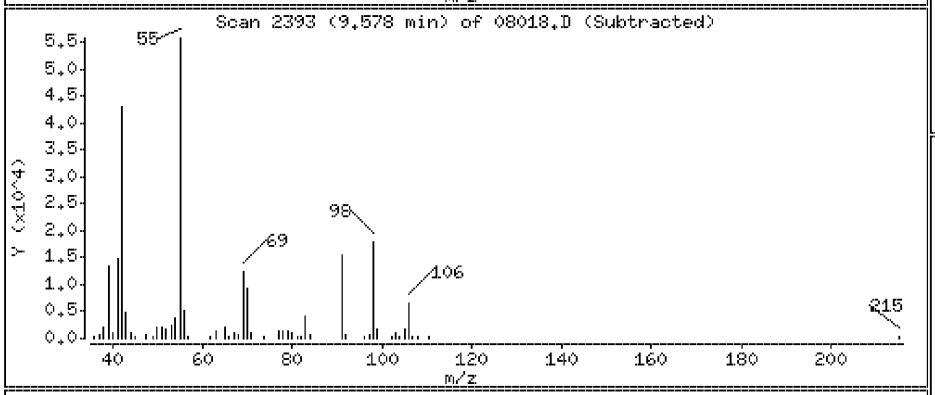
Column diameter: 0.32

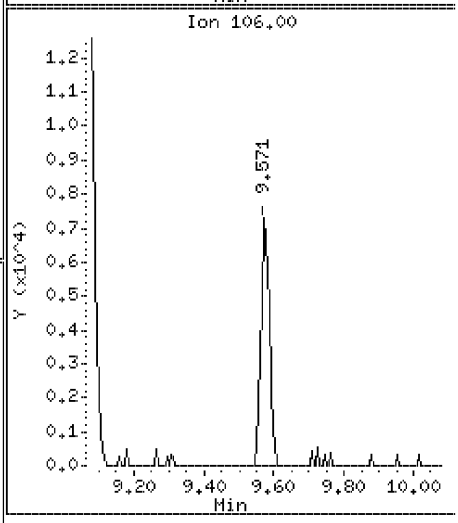
74 o-Xylene

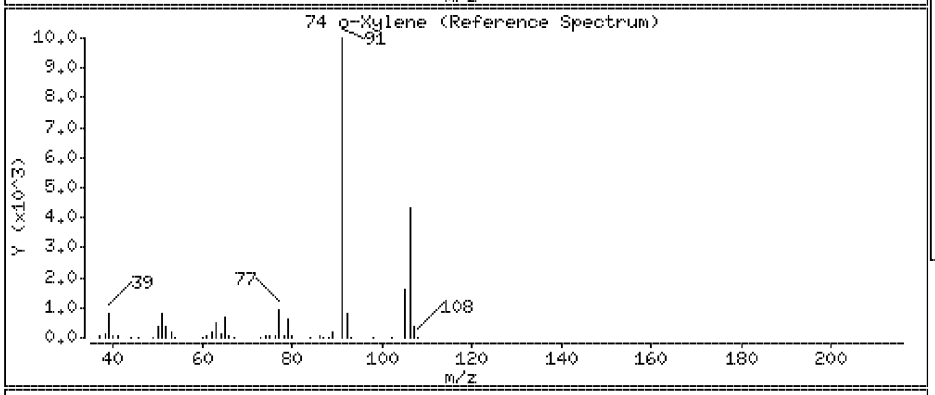
Concentration: 0.212 ppbv

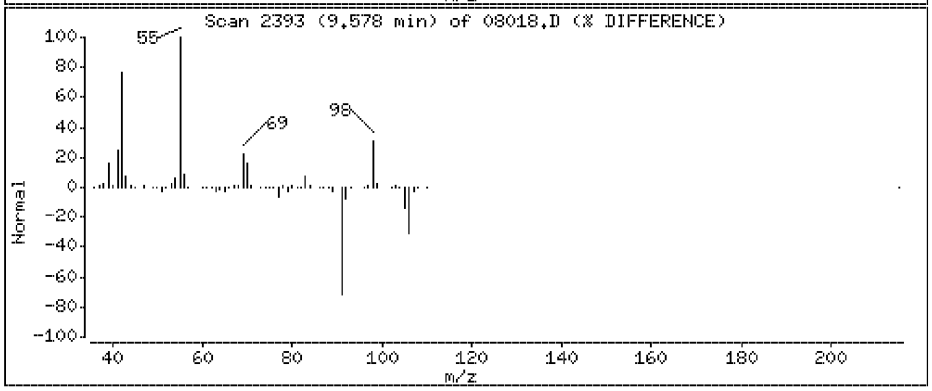












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

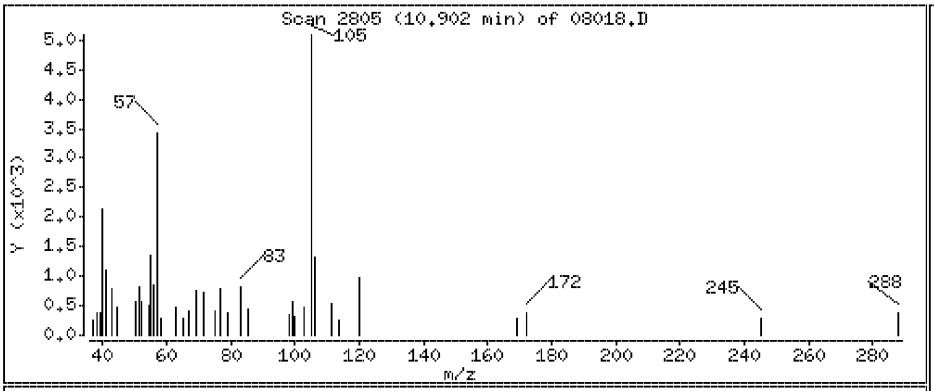
Operator: NCK

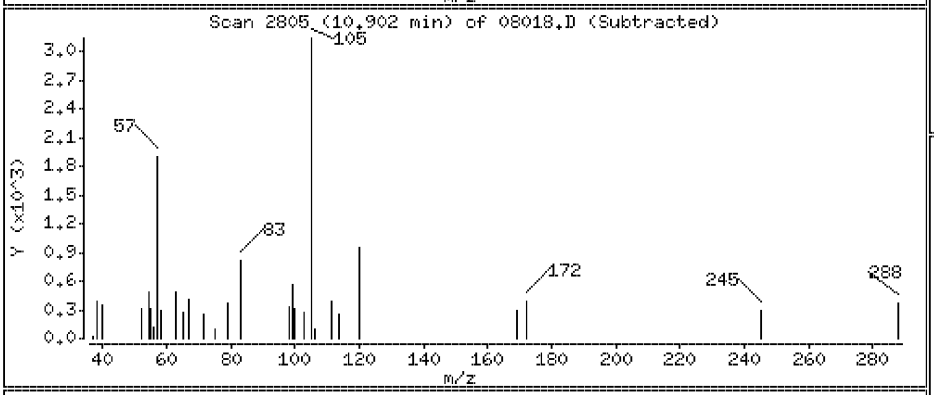
Column phase: J&W DB-5

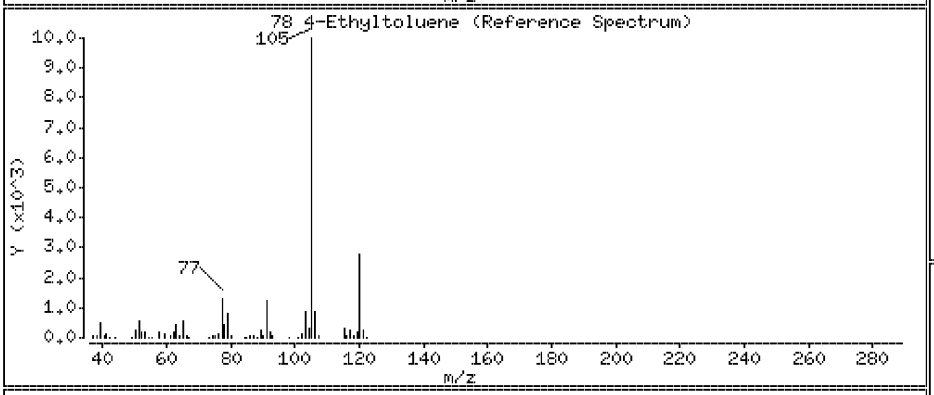
Column diameter: 0.32

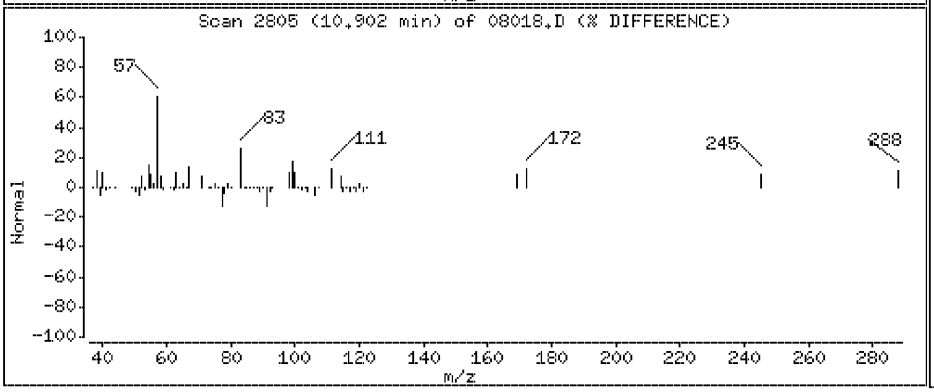
78 4-Ethyltoluene

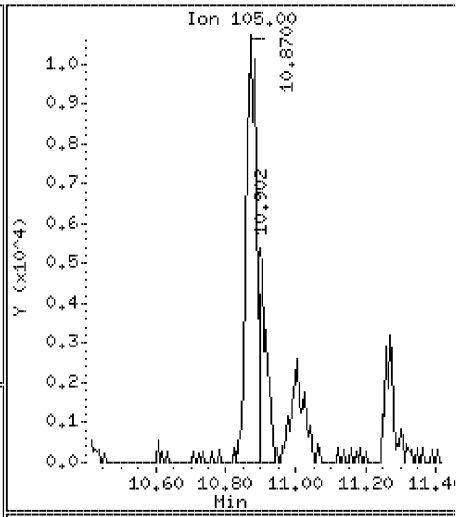
Concentration: 0.306 ppbv

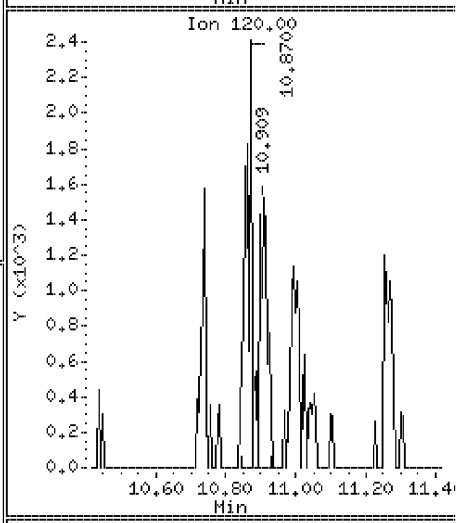


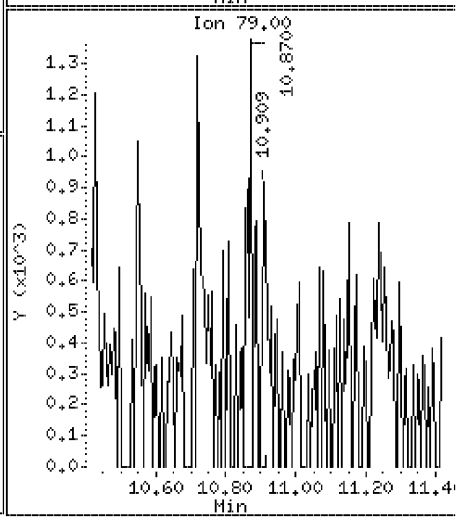












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

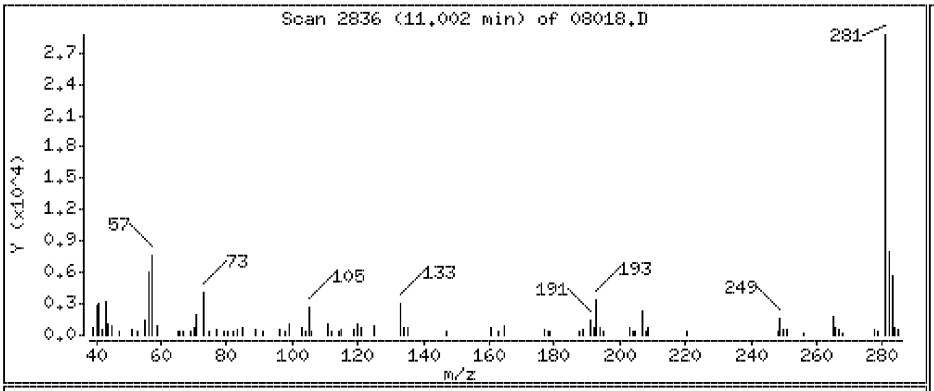
Operator: NCK

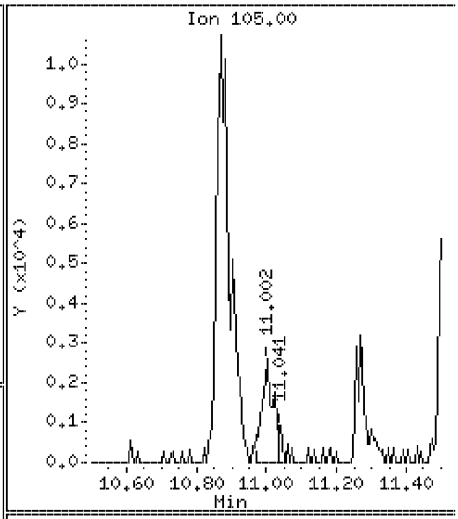
Column phase: J&W DB-5

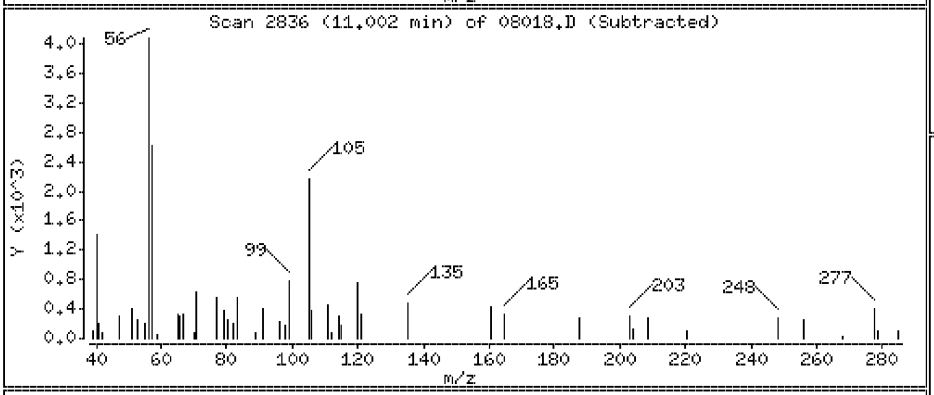
Column diameter: 0.32

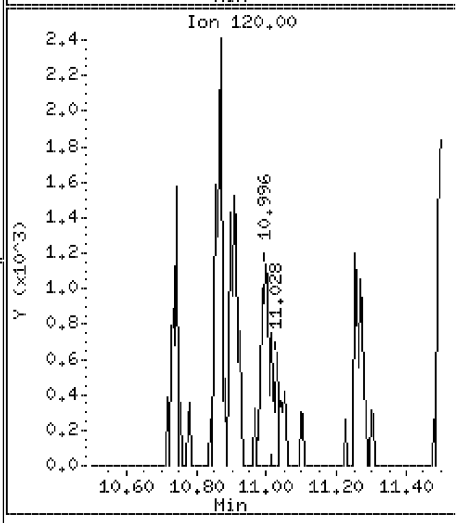
79 1,3,5-Trimethylbenzene

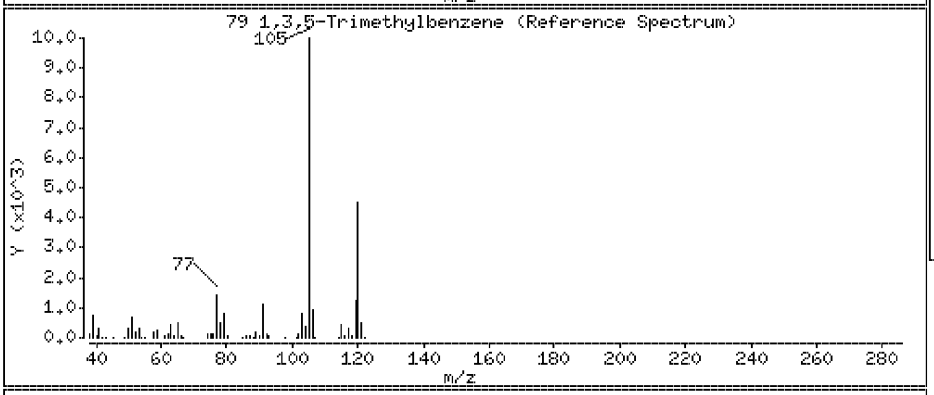
Concentration: 0.271 ppbv

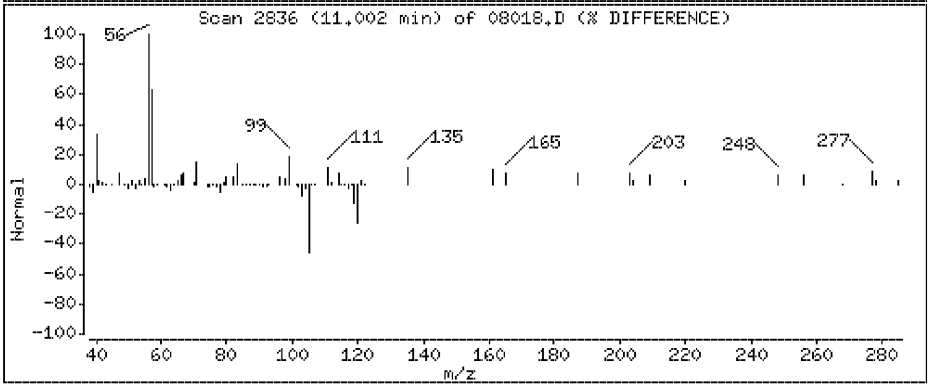












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

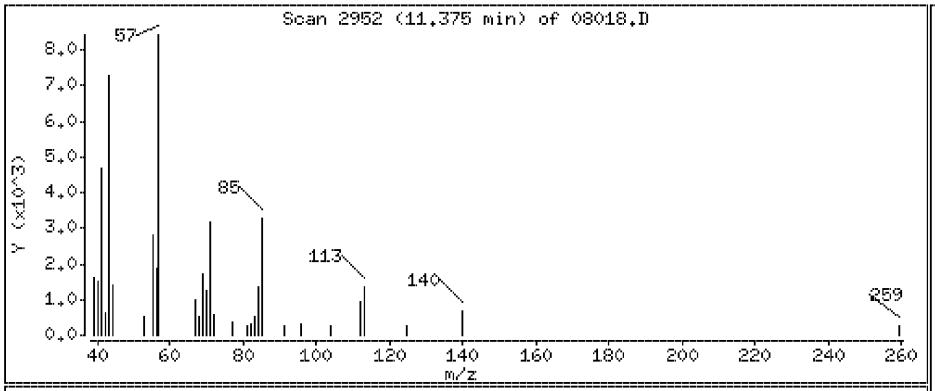
Operator: NCK

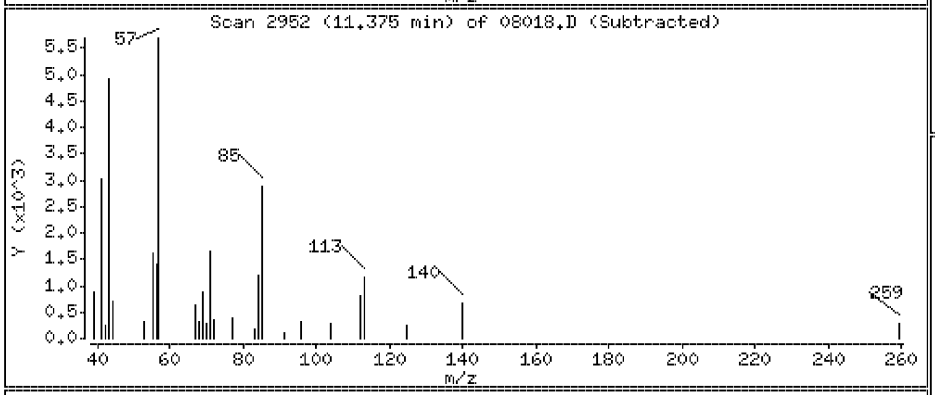
Column phase: J&W DB-5

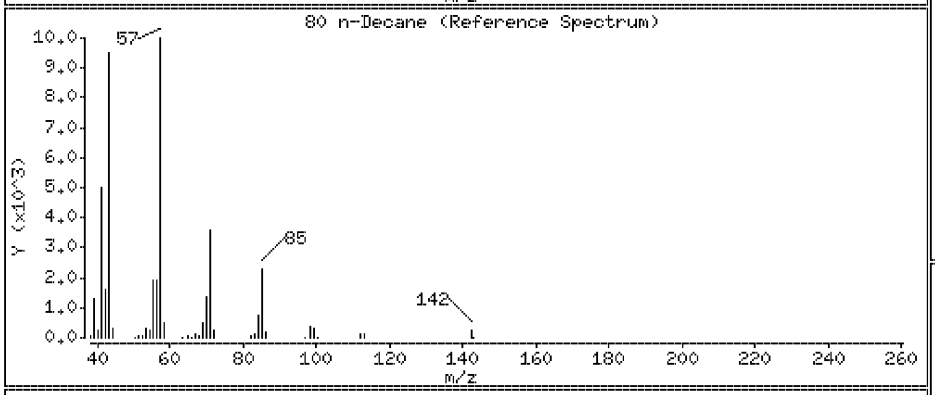
Column diameter: 0.32

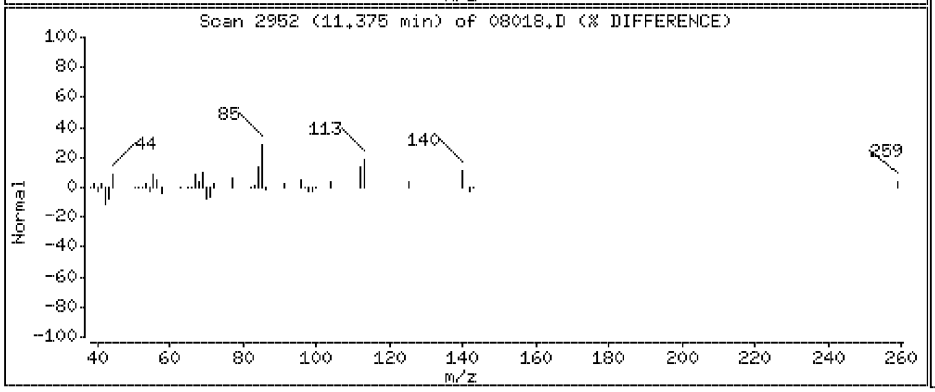
80 n-Decane

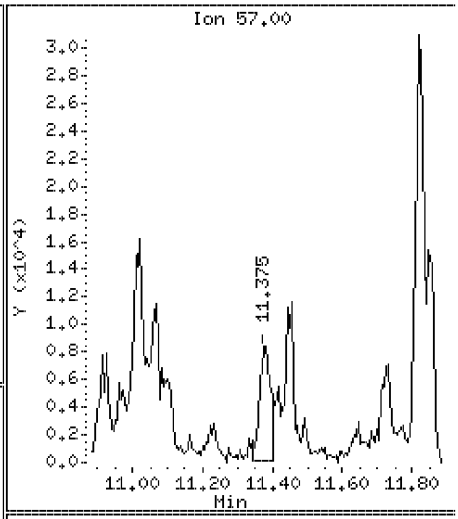
Concentration: 0.220 ppbv

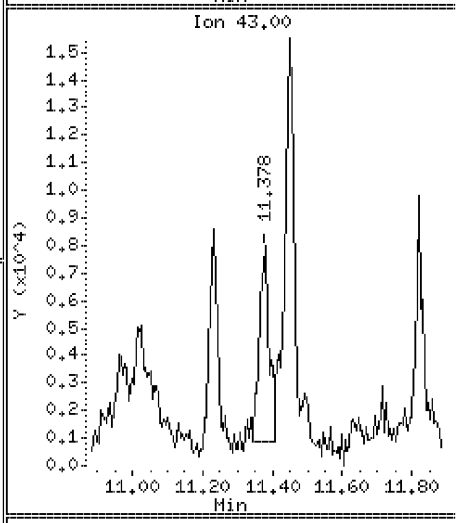


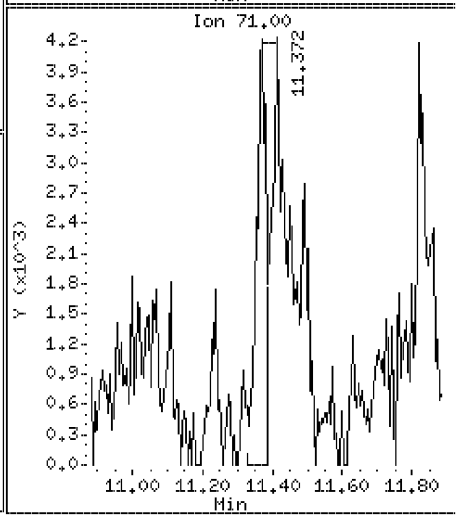












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

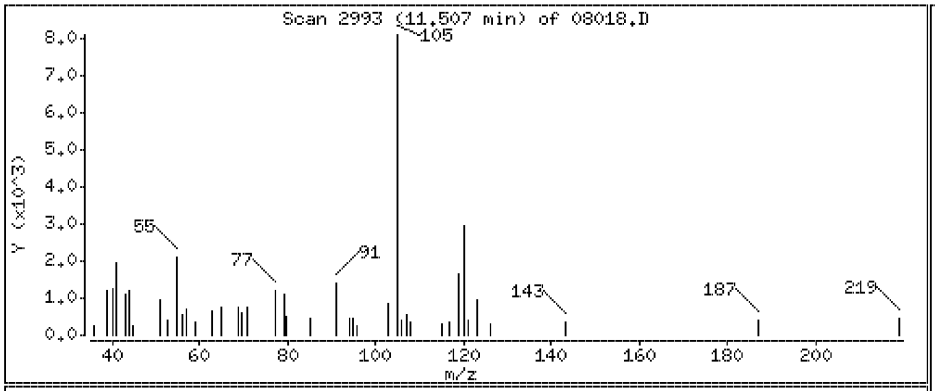
Operator: NCK

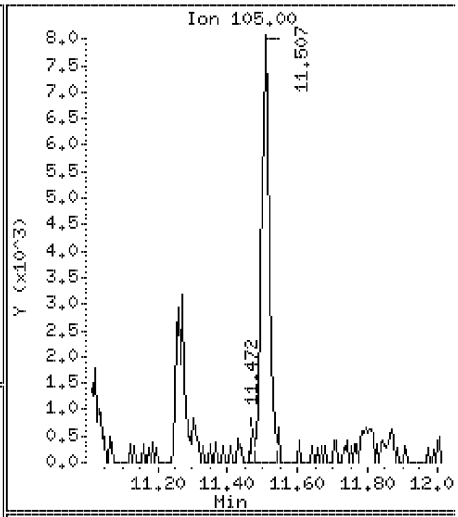
Column phase: J&W DB-5

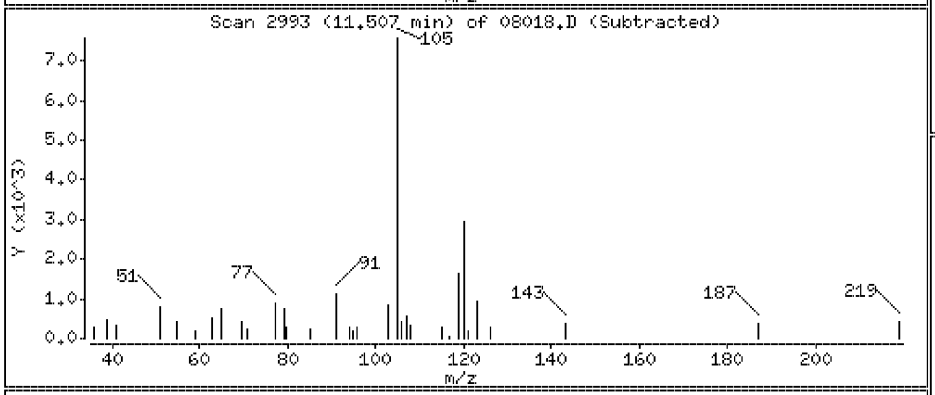
Column diameter: 0.32

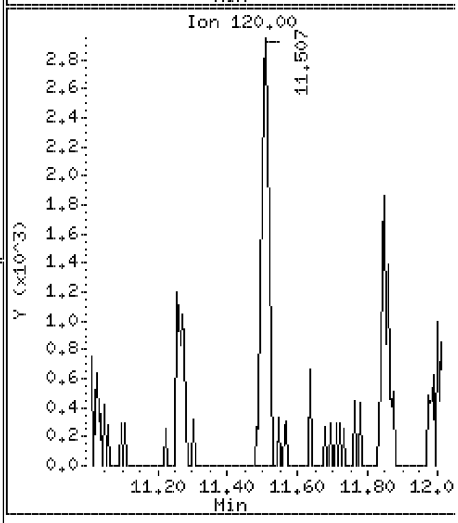
82 1,2,4-Trimethylbenzene

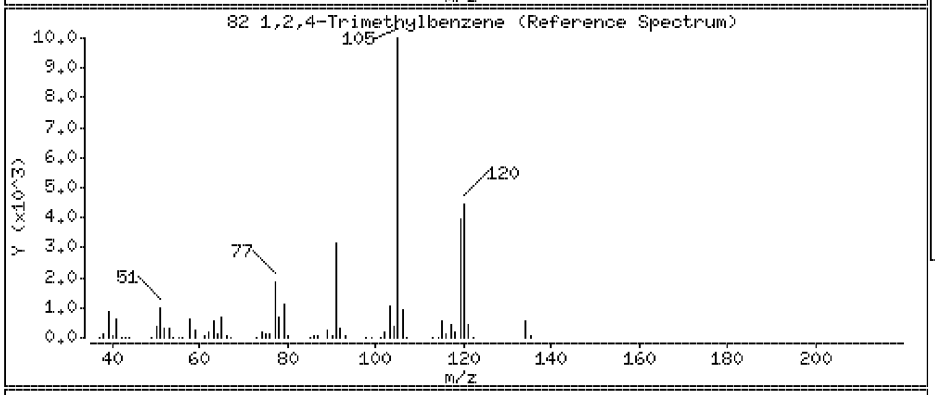
Concentration: 0.302 ppbv

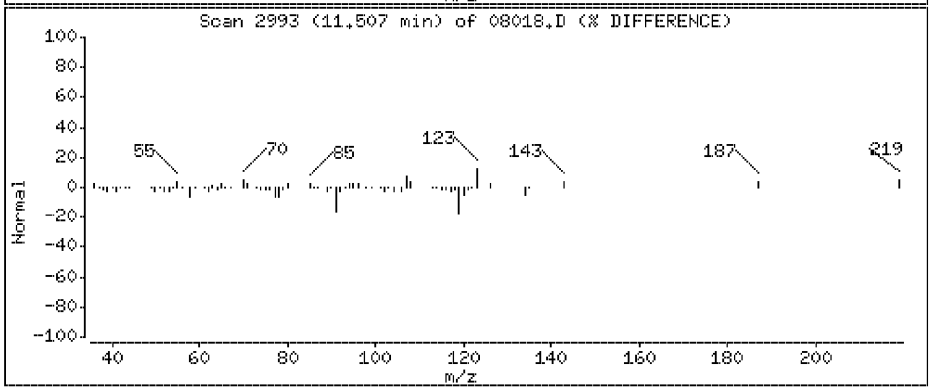












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

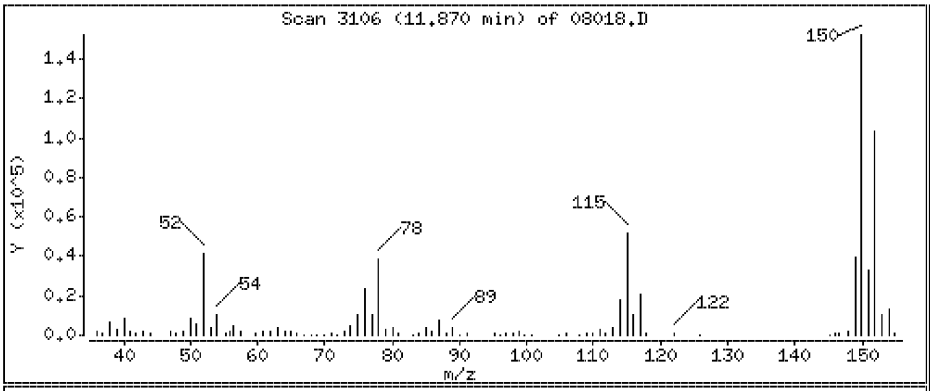
Operator: NCK

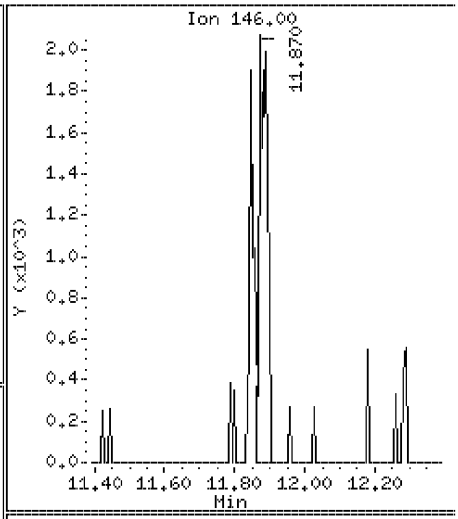
Column phase: J&W DB-5

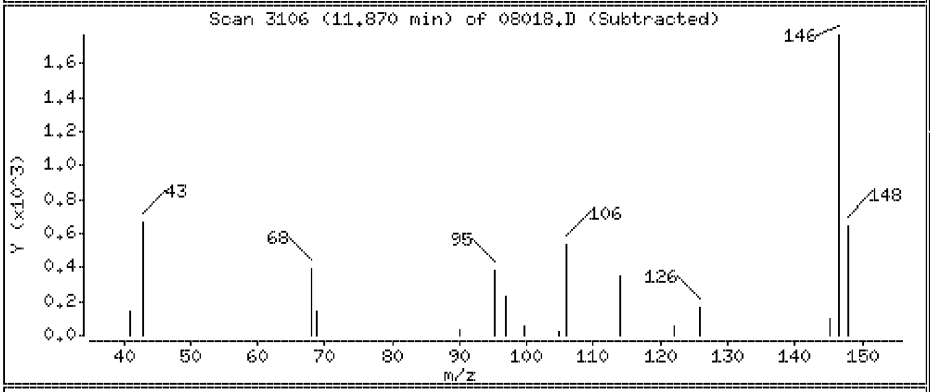
Column diameter: 0.32

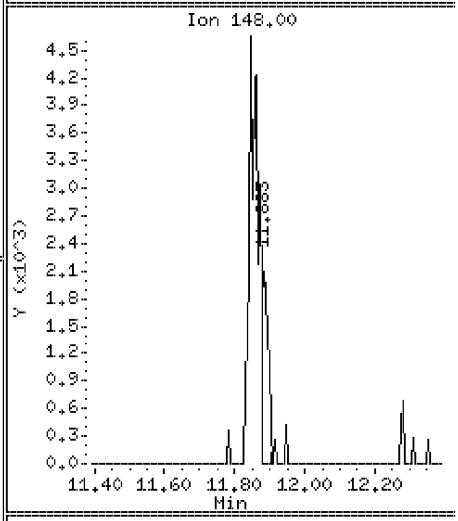
87 1,4-Dichlorobenzene

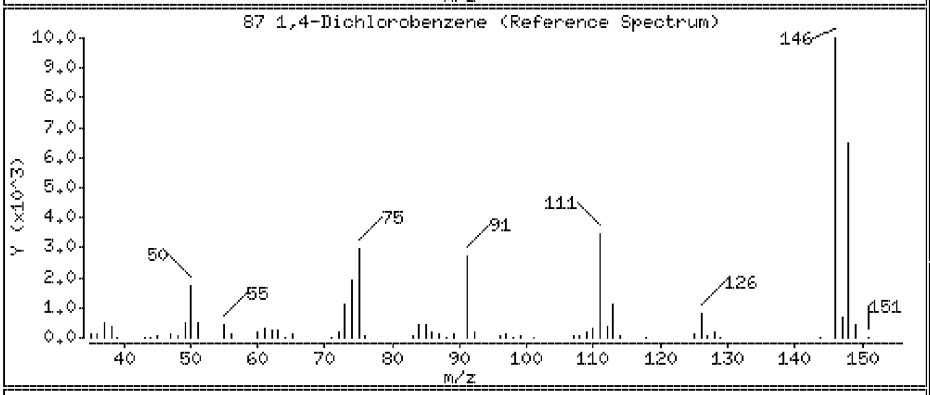
Concentration: 0.275 ppbv

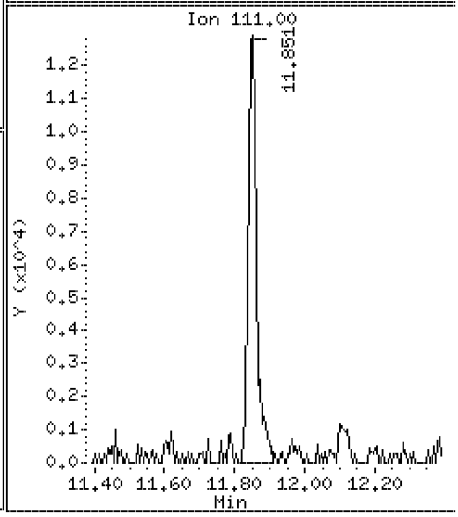


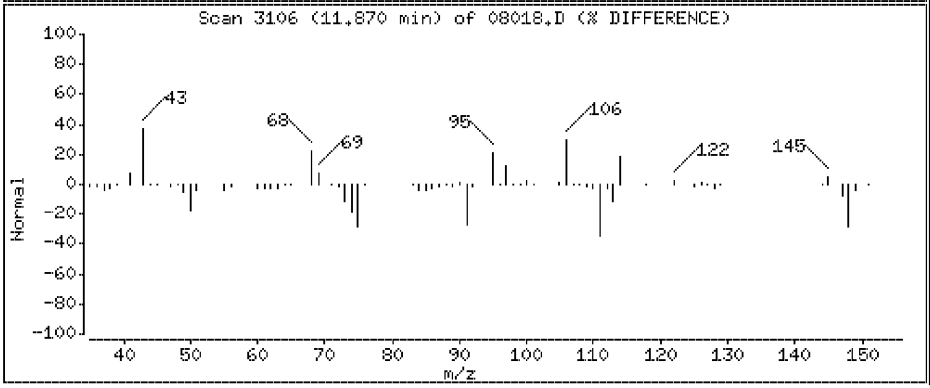












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

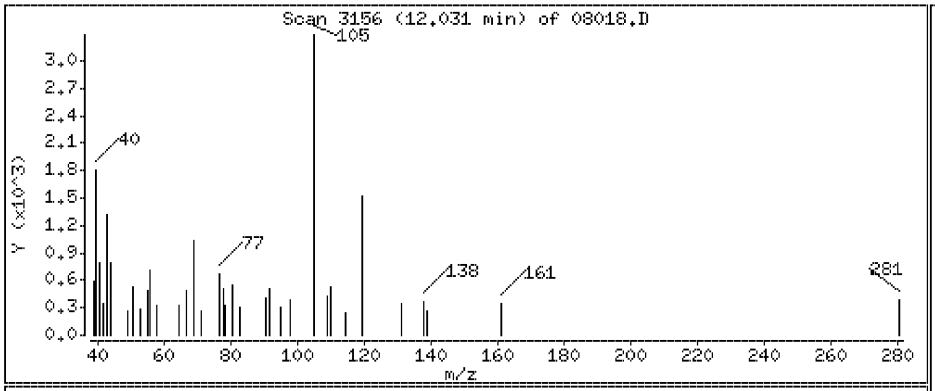
Operator: NCK

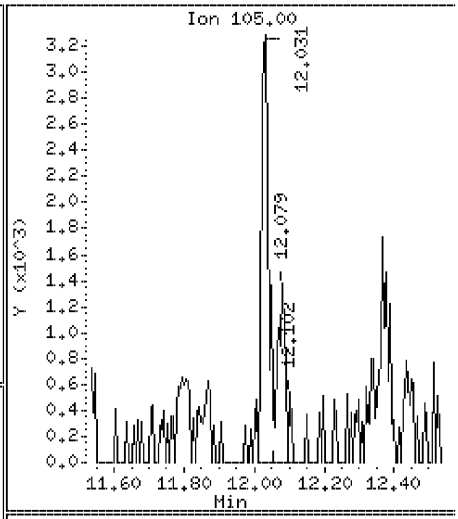
Column phase: J&W DB-5

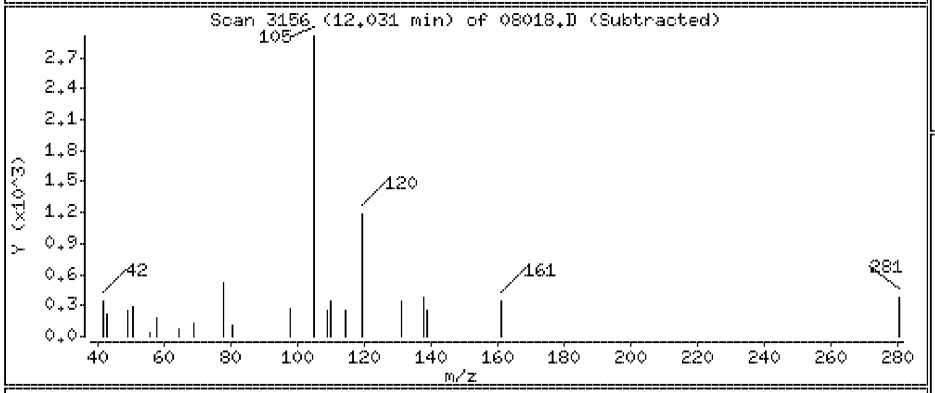
Column diameter: 0.32

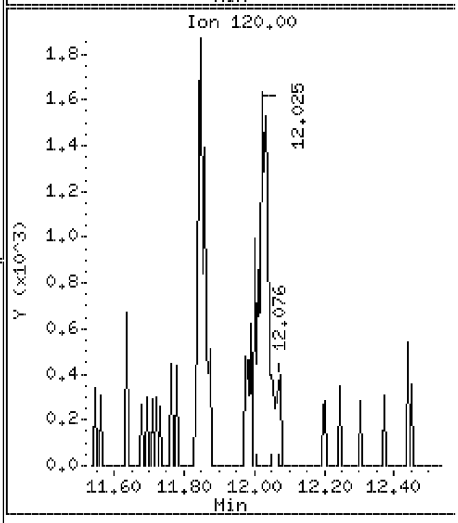
89 1,2,3-Trimethylbenzene

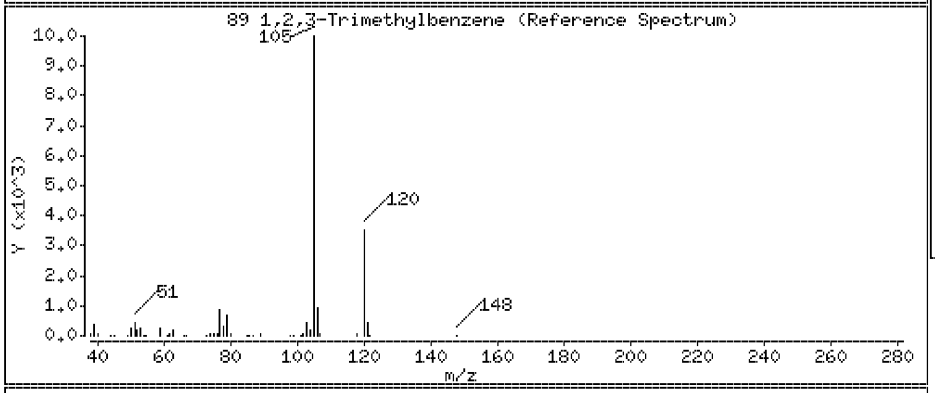
Concentration: 0.281 ppbv

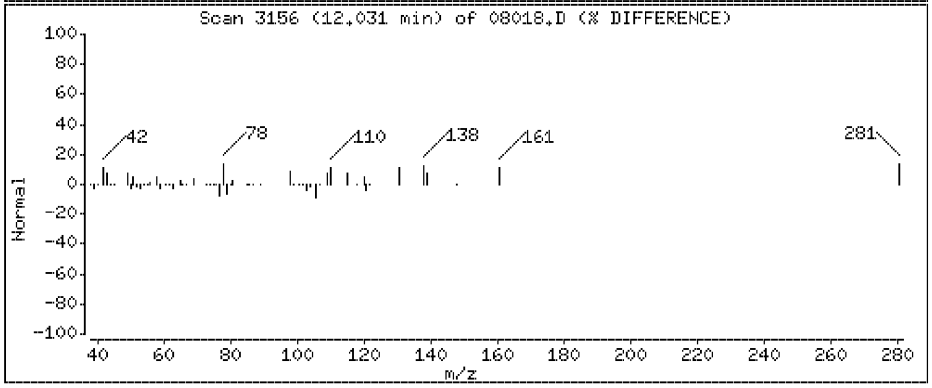












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08018.D

Date : 21-MAR-2017 17:19

Client ID:

Instrument: 10airB.i

Sample Info:

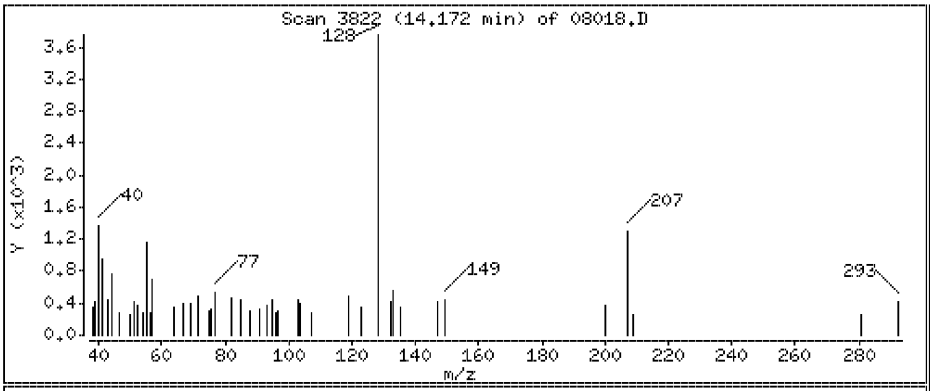
Operator: NCK

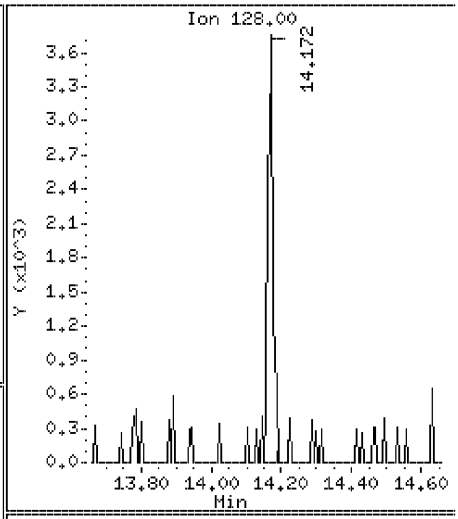
Column phase: J&W DB-5

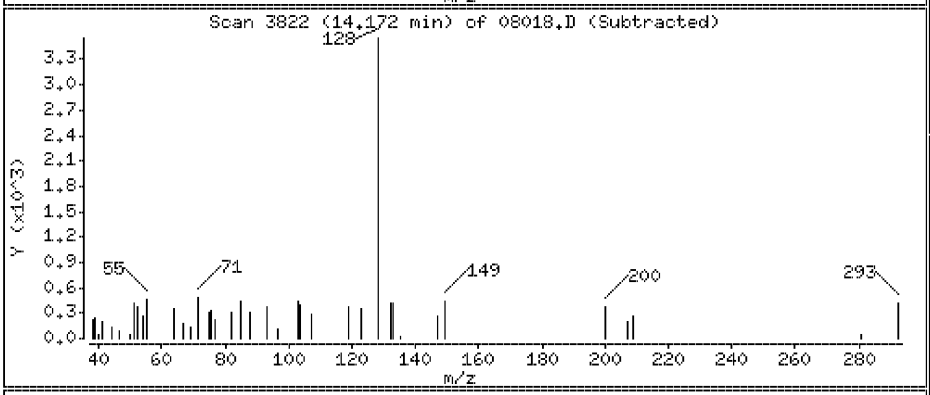
Column diameter: 0.32

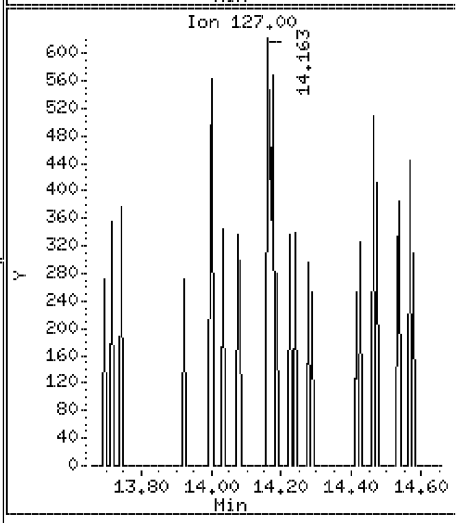
94 Naphthalene

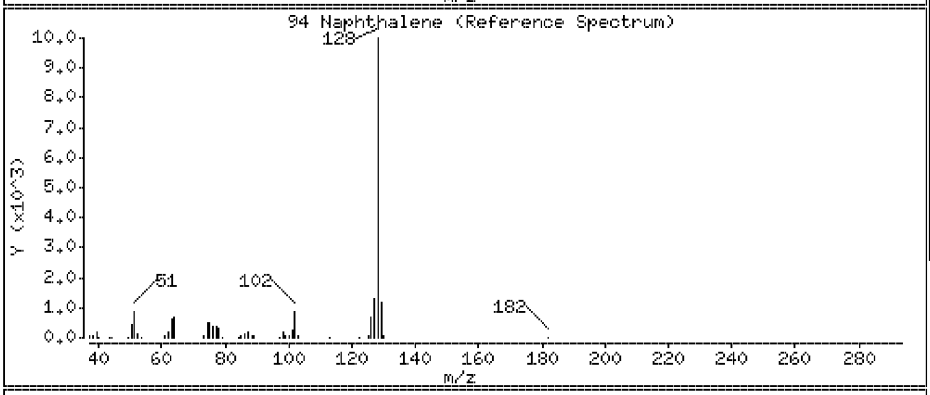
Concentration: 0.762 ppbv

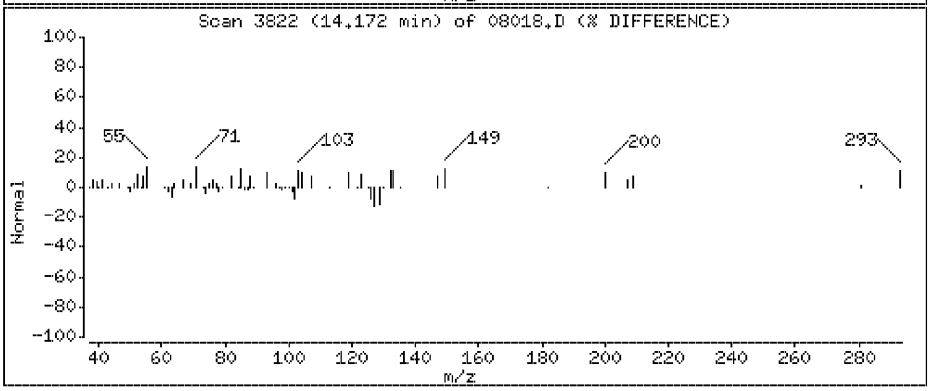






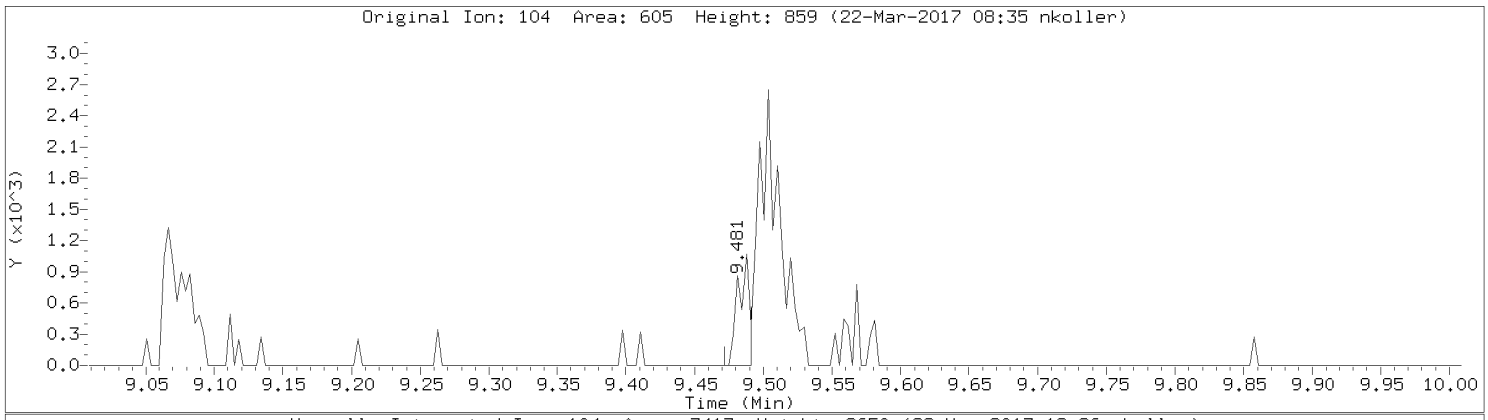


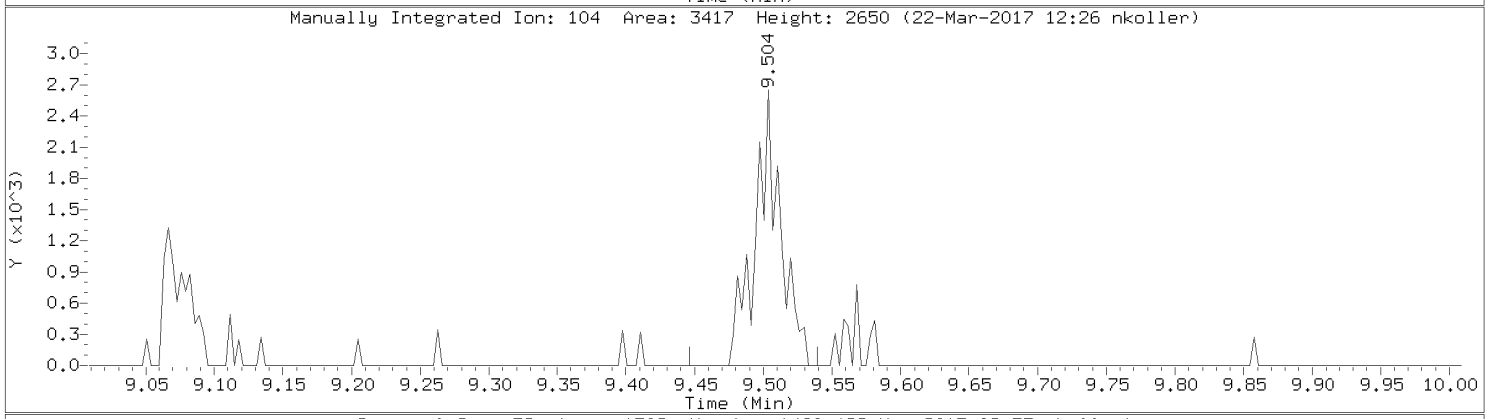


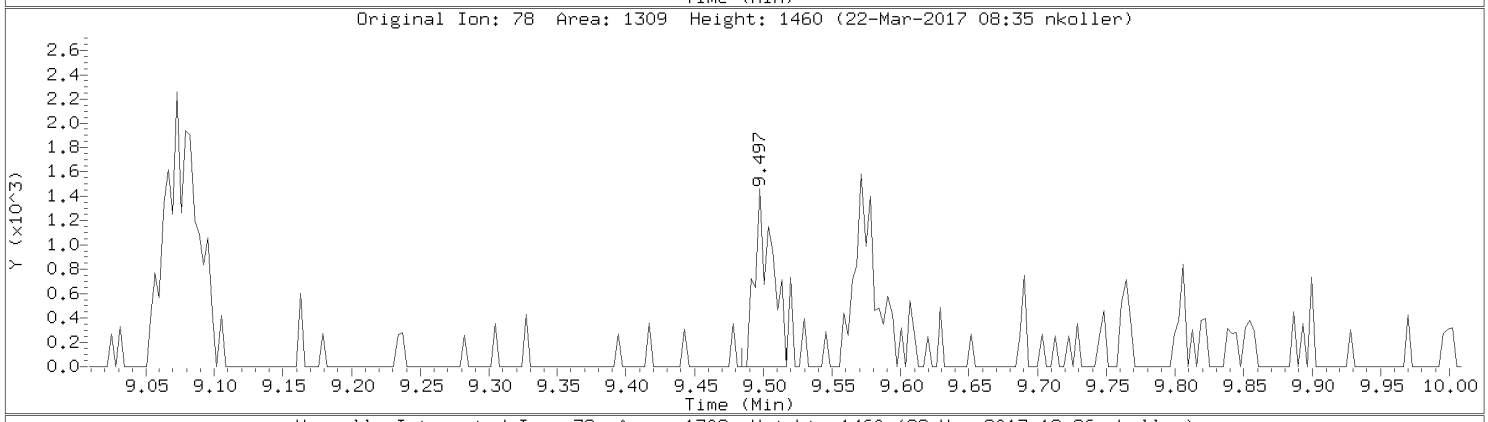


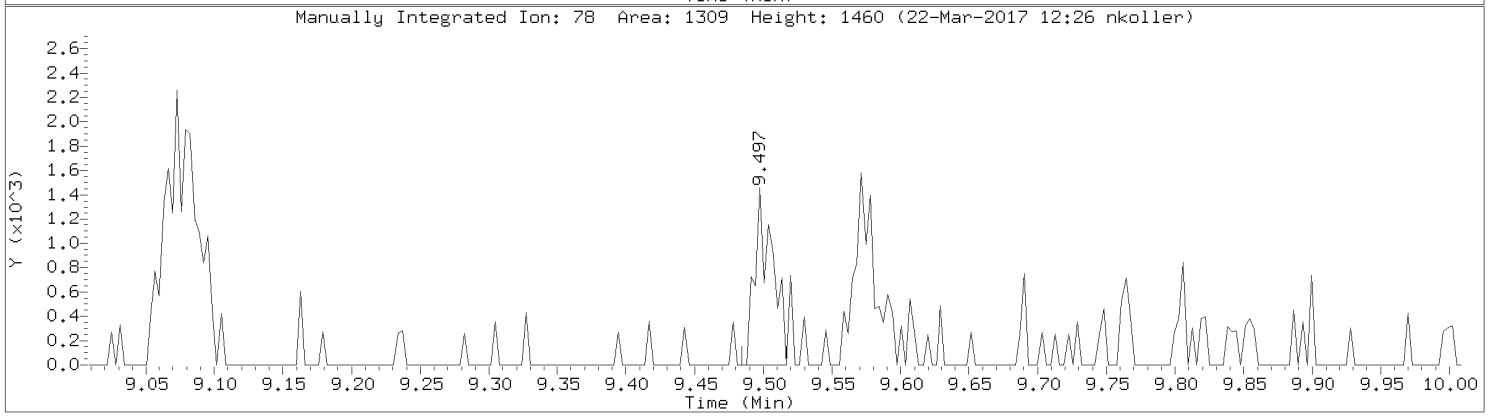
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08018.D
Injection Date: 21-MAR-2017 17:19
Instrument: 10airB.i
Lab Sample ID: 10381035008

Compound: Styrene
CAS Number: 100-42-5

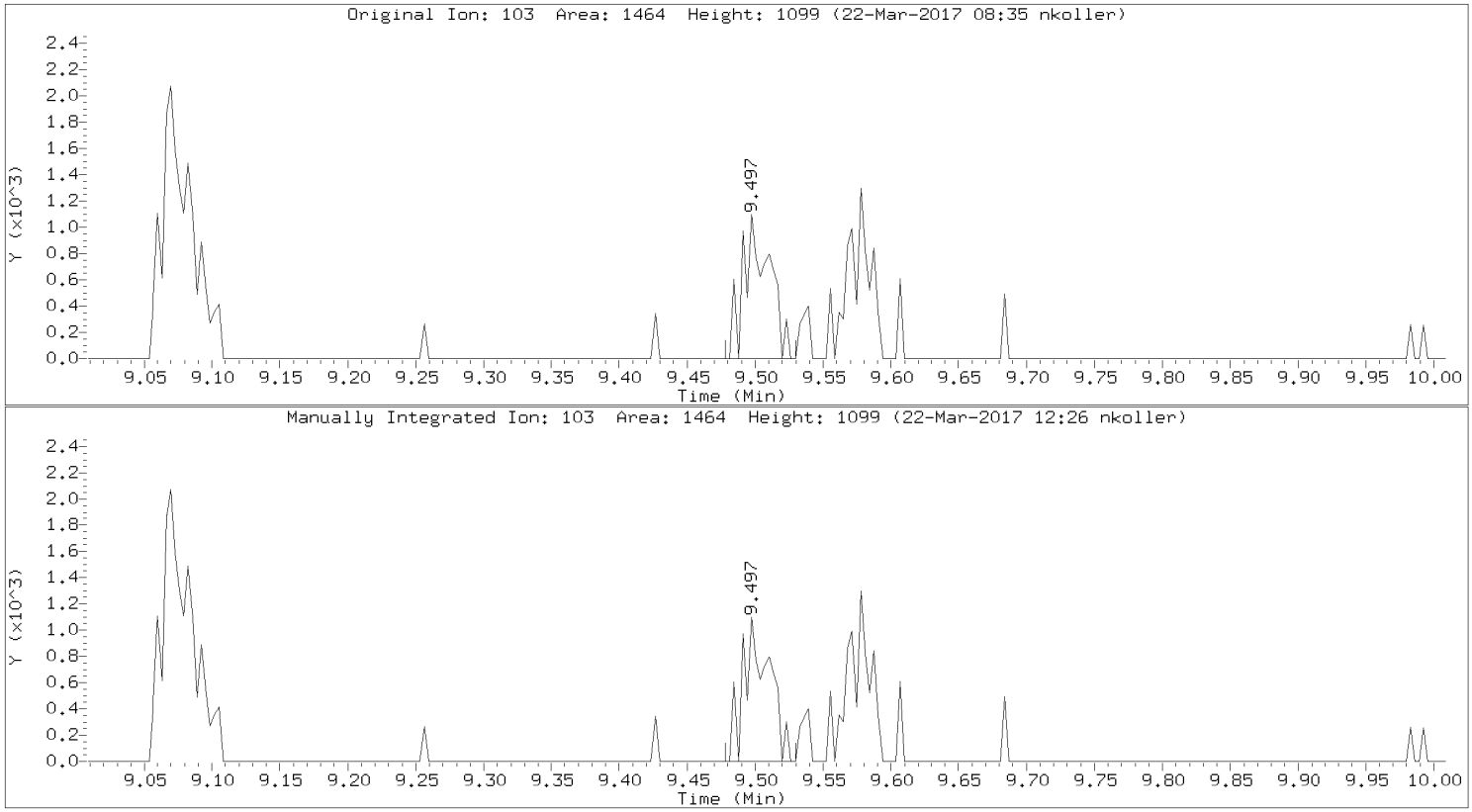






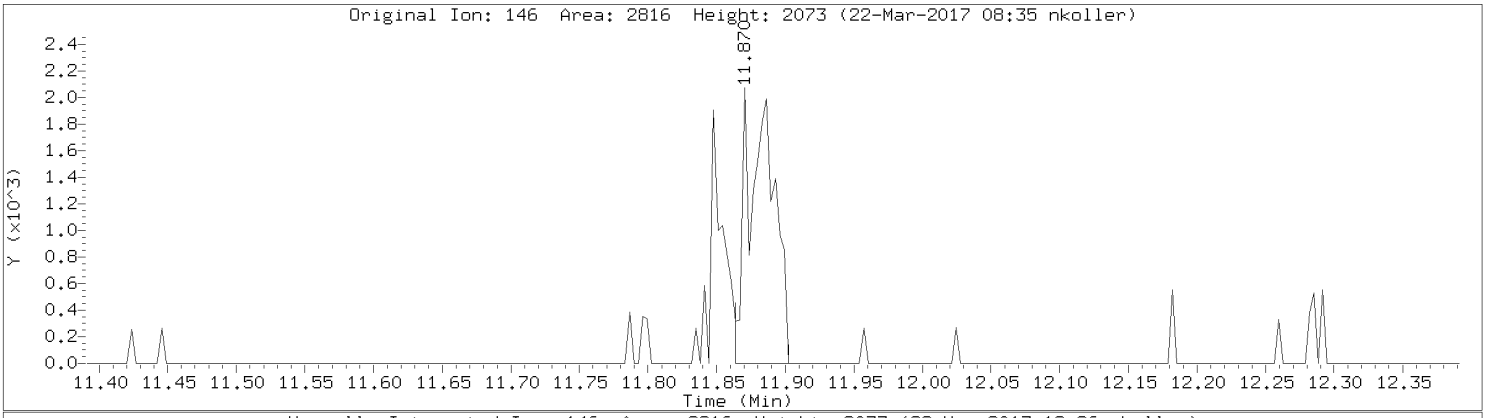


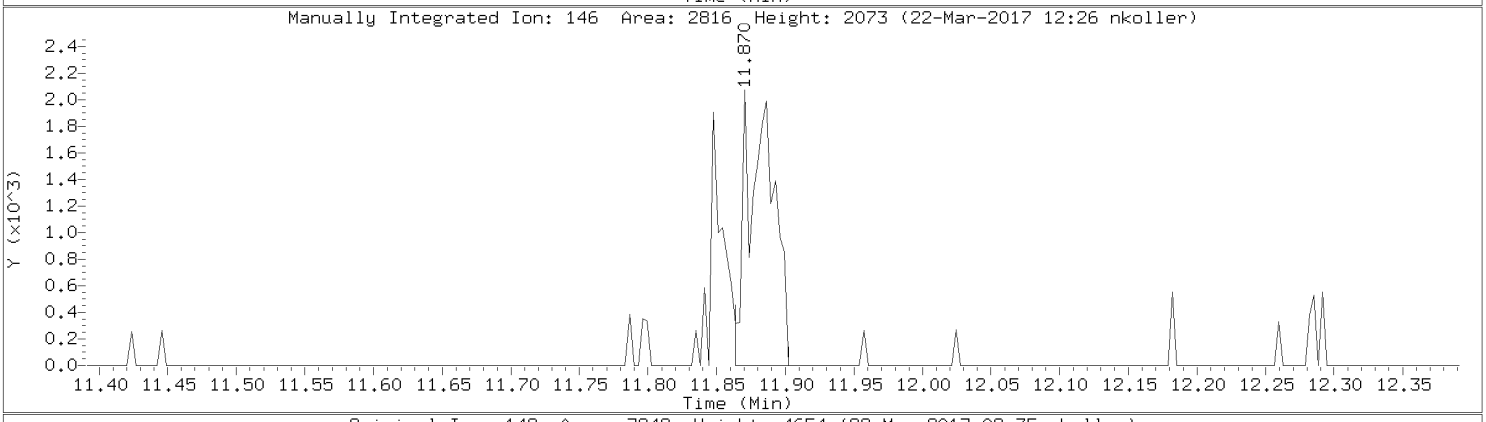
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08018.D
Injection Date: 21-MAR-2017 17:19
Instrument: 10airB.i
Lab Sample ID: 10381035008

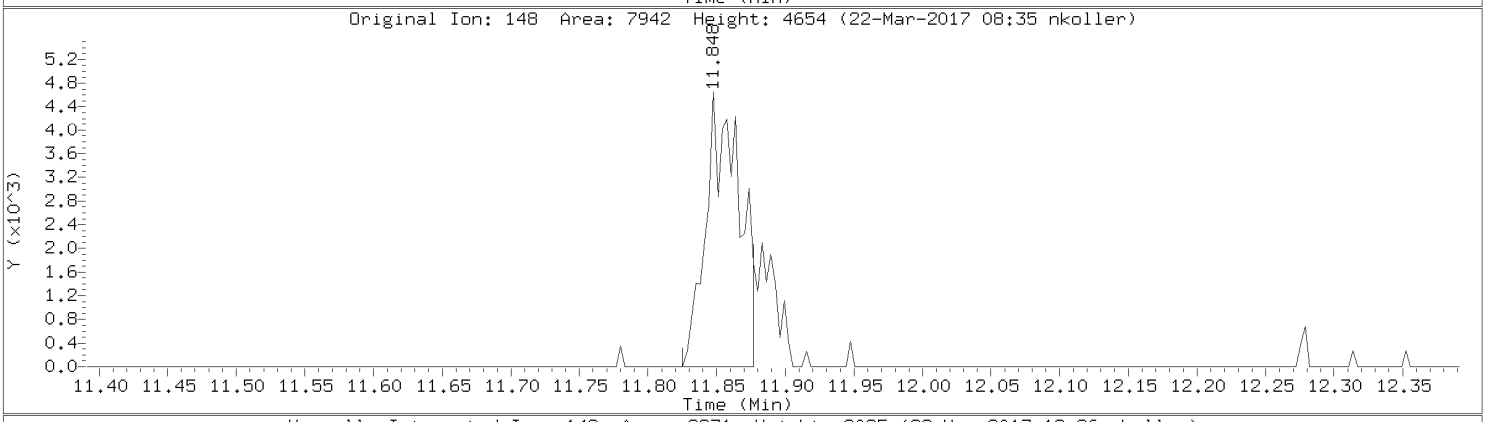


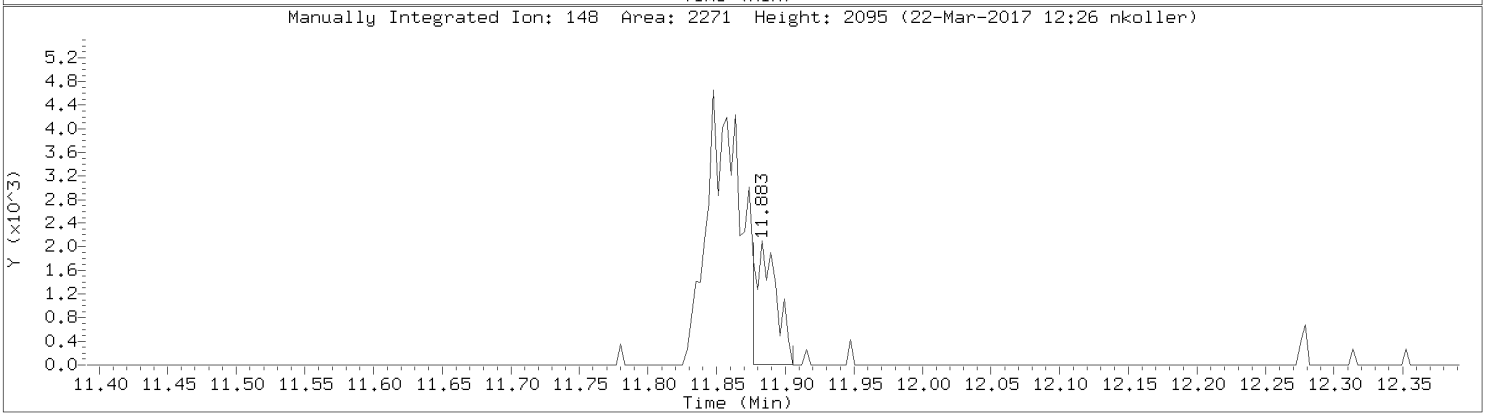
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08018.D
Injection Date: 21-MAR-2017 17:19
Instrument: 10airB.i
Lab Sample ID: 10381035008

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

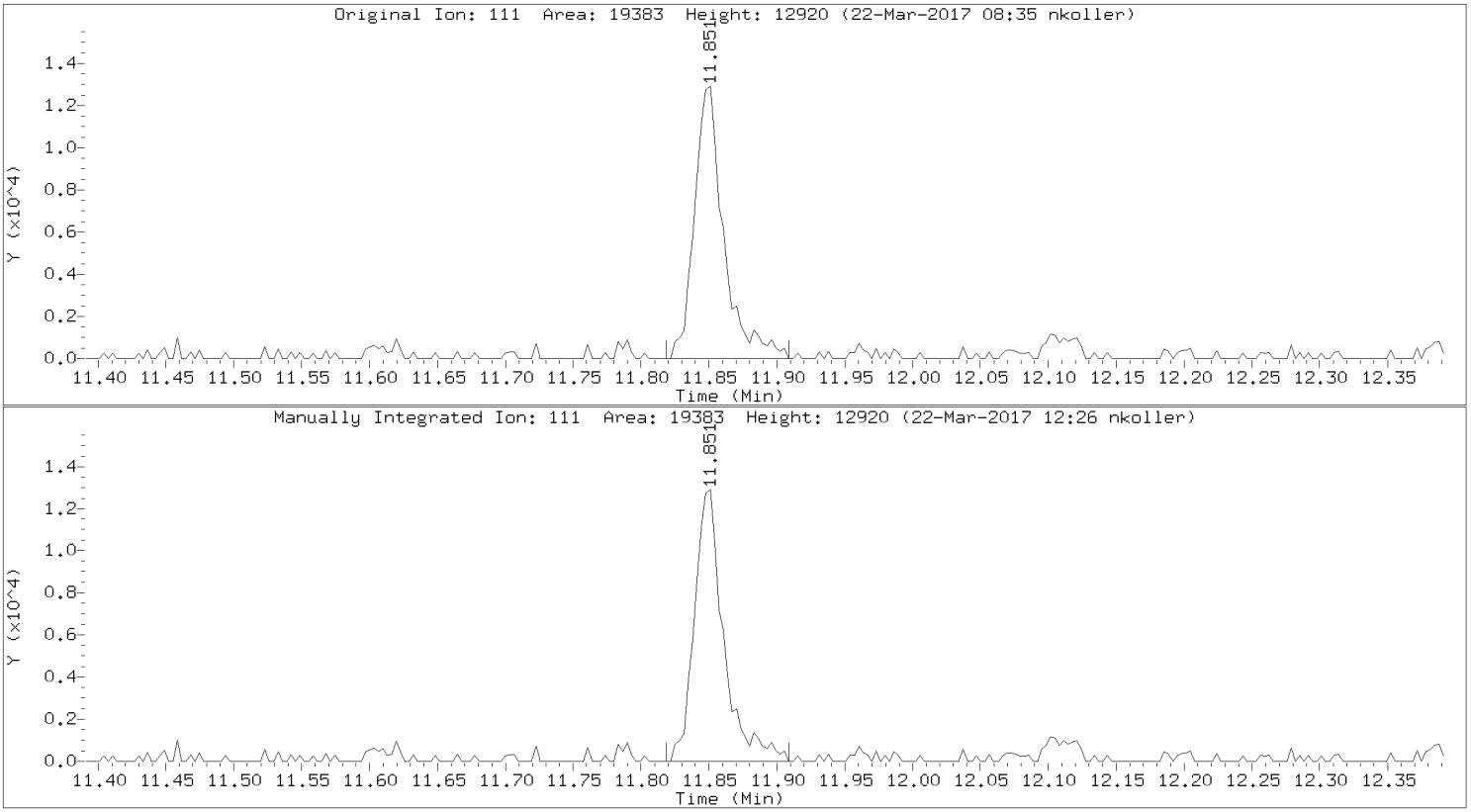






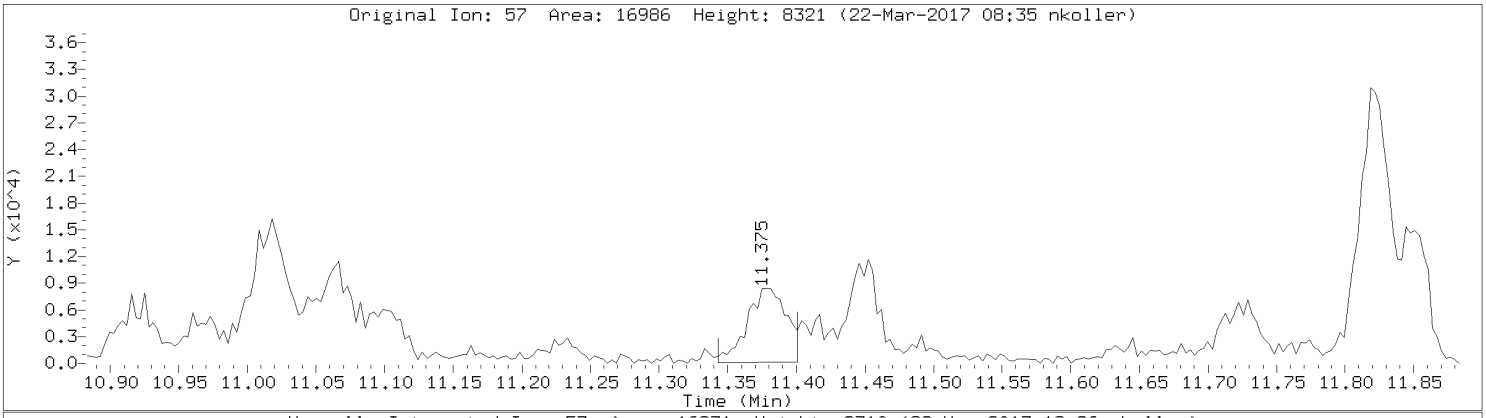


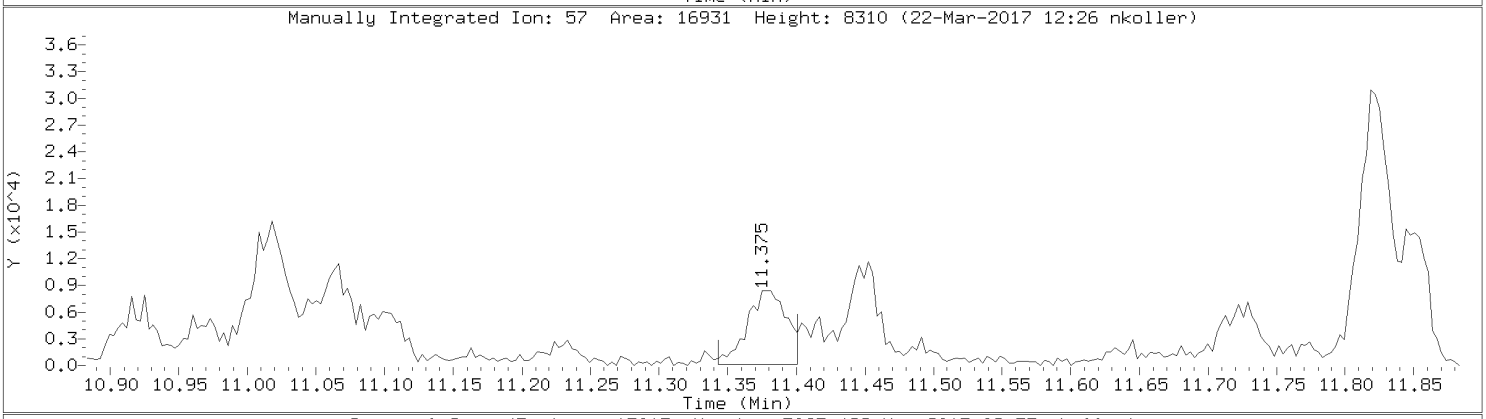
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08018.D
Injection Date: 21-MAR-2017 17:19
Instrument: 10airB.i
Lab Sample ID: 10381035008

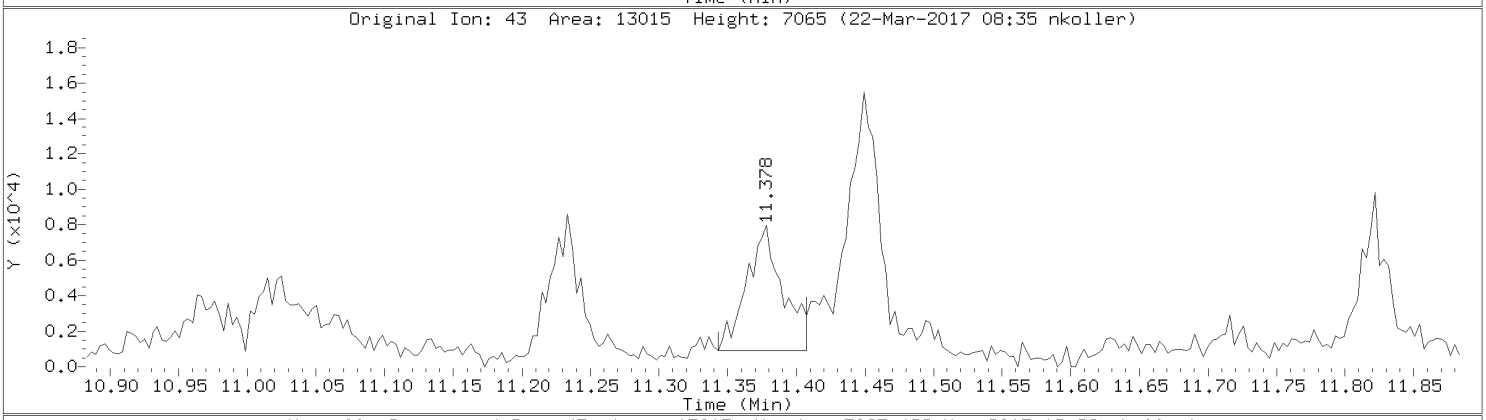


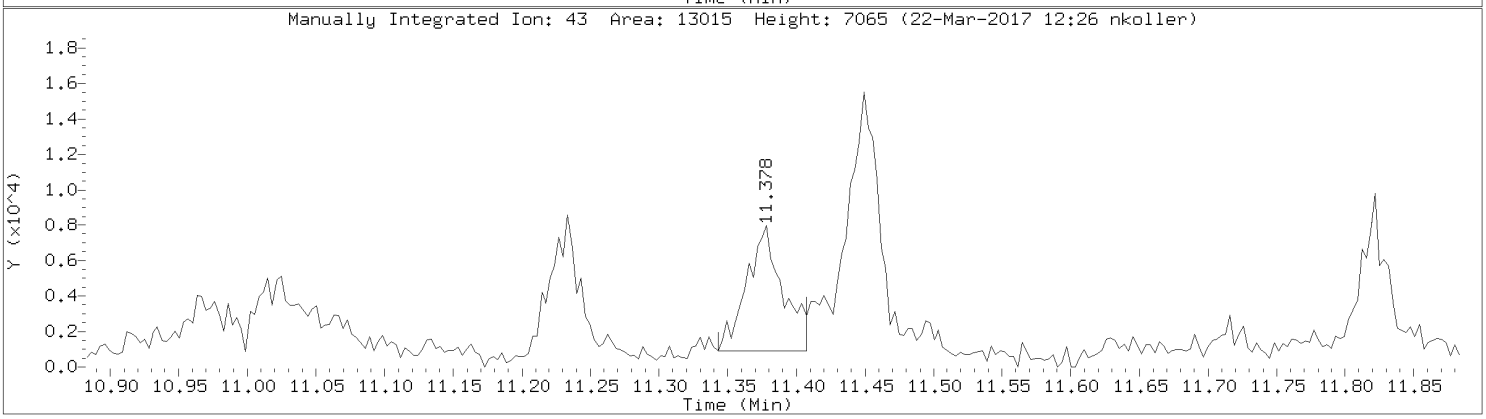
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08018.D
Injection Date: 21-MAR-2017 17:19
Instrument: 10airB.i
Lab Sample ID: 10381035008

Compound: n-Decane
CAS Number: 124-18-5

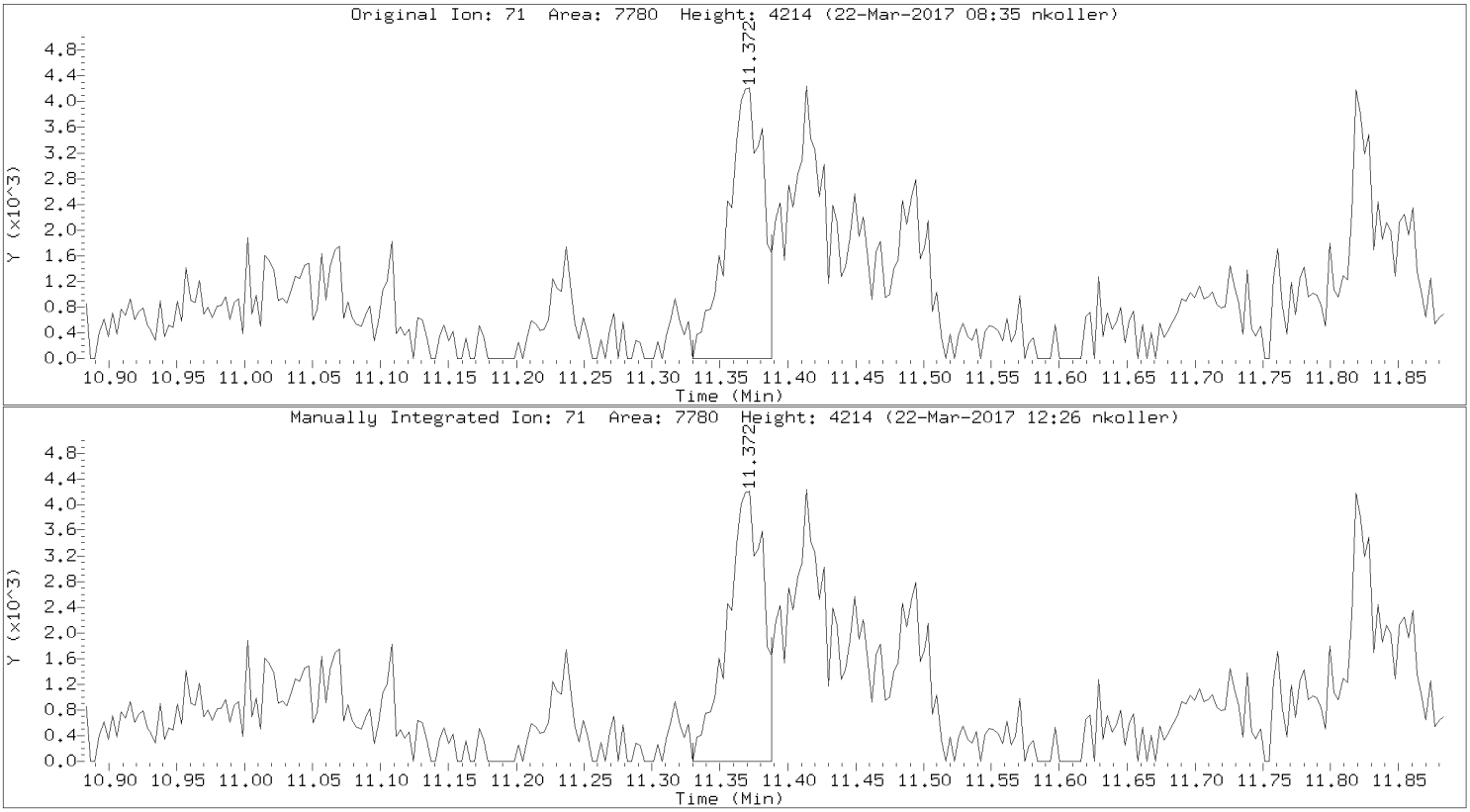








Data File: \\192.168.10.12\chem\10airB.i\032117.b/08018.D
Injection Date: 21-MAR-2017 17:19
Instrument: 10airB.i
Lab Sample ID: 10381035008



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_5_20170302 **Lab ID: 10381035009** Collected: 03/02/17 11:22 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**10.2**	ug/m3	4.2	1.5	1.75		03/21/17 17:50	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 17:50	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 17:50	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 17:50	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 17:50	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 17:50	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 17:50	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 17:50	78-93-3	
Carbon disulfide	**1.2**	ug/m3	1.1	0.18	1.75		03/21/17 17:50	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 17:50	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 17:50	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 17:50	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 17:50	75-00-3	
Chloroform	**0.57J**	ug/m3	0.87	0.33	1.75		03/21/17 17:50	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 17:50	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 17:50	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 17:50	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 17:50	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 17:50	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 17:50	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 17:50	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 17:50	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 17:50	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 17:50	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 17:50	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 17:50	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 17:50	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/21/17 17:50	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 17:50	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 17:50	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 17:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 17:50	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 17:50	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 17:50	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 17:50	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 17:50	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/21/17 17:50	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 17:50	87-68-3	
n-Hexane	**2.7**	ug/m3	1.3	0.62	1.75		03/21/17 17:50	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 17:50	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 17:50	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 17:50	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 17:50	108-87-2	
Methylene Chloride	**34.2**	ug/m3	6.2	0.95	1.75		03/21/17 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 17:50	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 17:50	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D
Report Date: 22-Mar-2017 12:28

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08019.D
Lab Smp Id: 10381035009
Inj Date : 21-MAR-2017 17:50
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 19
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.545	3.545	(0.634)	59717	2.50510	4.38	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.565	3.603	(0.637)	89178	1.15768	2.03	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.642	3.677	(0.651)	17217	0.13362	0.234	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.709	3.722	(0.663)	248240	2.41197	4.22	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.918	3.951	(0.701)	6506	0.06627	0.116(H)	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D
Report Date: 22-Mar-2017 12:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.973	4.005	(0.710)	467616	5.52659	9.67(H)	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	4.089	4.127	(0.731)	21989	0.20982	0.367	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.430	4.388	(0.792)	17935	0.11596	0.203	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.475	4.491	(0.800)	2083574	9.54703	9.55	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.568	4.587	(0.817)	46839	0.42899	0.751(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.716	4.716	(0.843)	36414	0.23706	0.415(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.802	4.841	(0.859)	7560	0.06514	0.114	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.593	5.613	(1.000)	6367477	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.966	5.986	(1.067)	16819	0.19614	0.343	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	5647546	9.63161	9.63	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.140	7.153	(1.276)	75012	0.35218	0.616	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	62089	0.66357	1.16	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	4124874	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.069	9.082	(1.050)	12447	0.22416	0.392	
	71 n-Nonane	43	9.468	9.468	(1.096)	15601	0.12277	0.215(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.506	9.507	(1.100)	1470	0.13961	0.244(MH)	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D
Report Date: 22-Mar-2017 12:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	11.008	10.998	(1.274)	3024	0.15298	0.268(Q)	
80	n-Decane	57	11.378	11.381	(2.034)	178648	1.40040	2.45(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.506	11.510	(1.332)	5526	0.15573	0.273	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	1868482	9.38684	9.39	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.021	12.034	(1.392)	1812	0.15628	0.273(QM)	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	3835	0.45567	0.797	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D
Report Date: 22-Mar-2017 12:28

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08019.D
Lab Smp Id: 10381035009
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

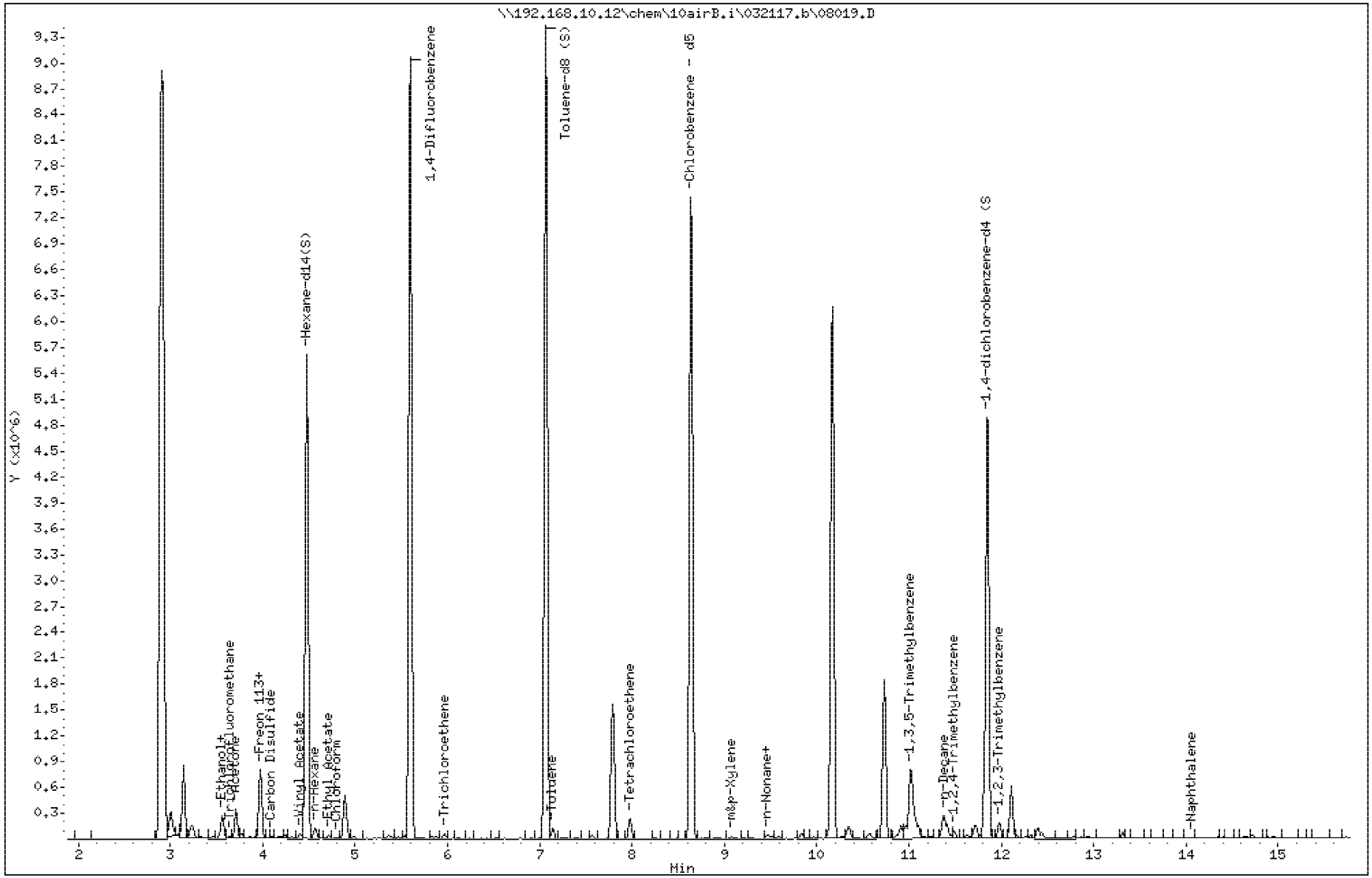
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6367477	-16.67
67 Chlorobenzene - d	5205948	3123569	7288327	4124874	-20.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.35
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D
Date : 21-MAR-2017 17:50
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

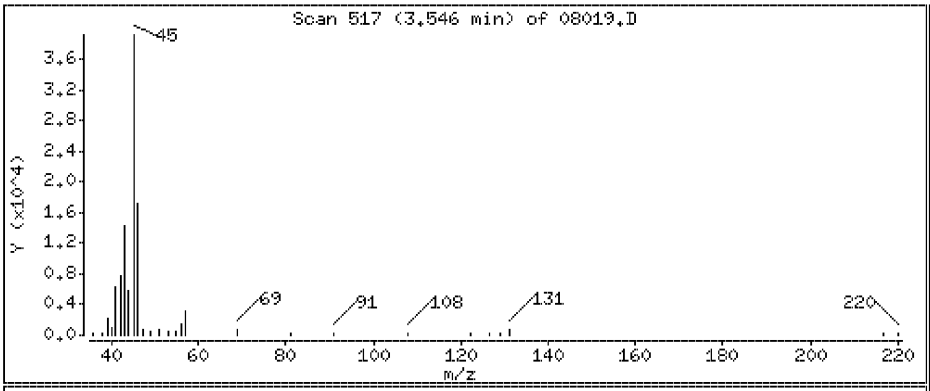
Operator: NCK

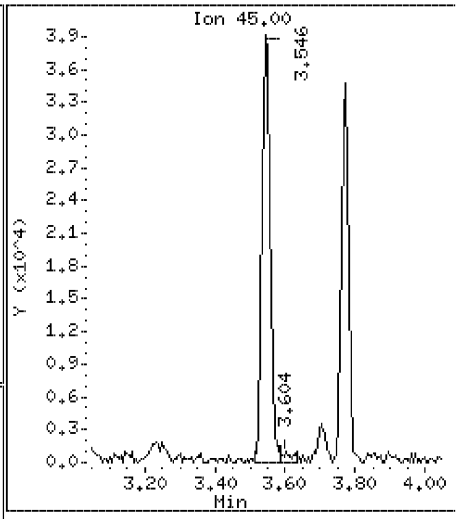
Column phase: J&W DB-5

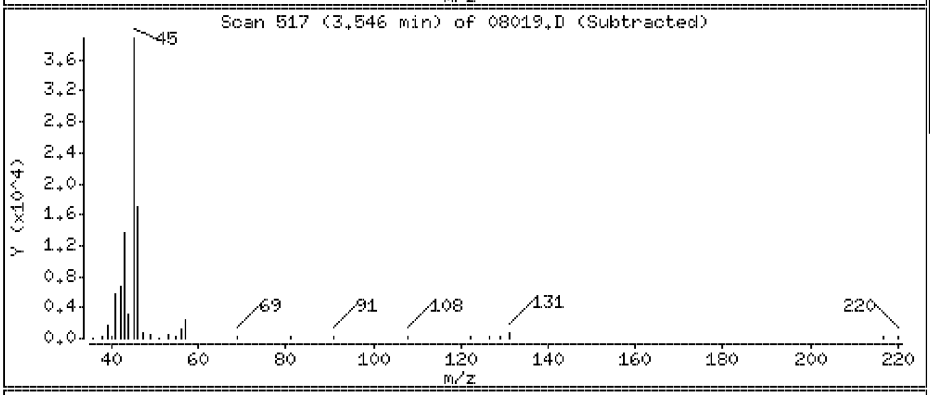
Column diameter: 0.32

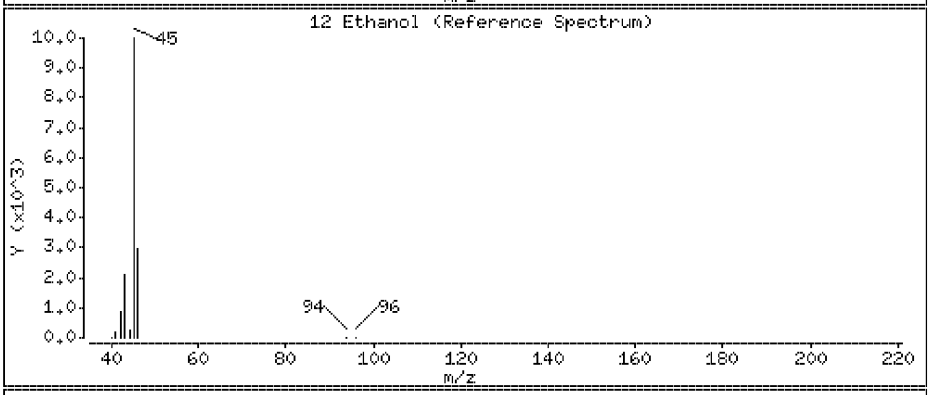
12 Ethanol

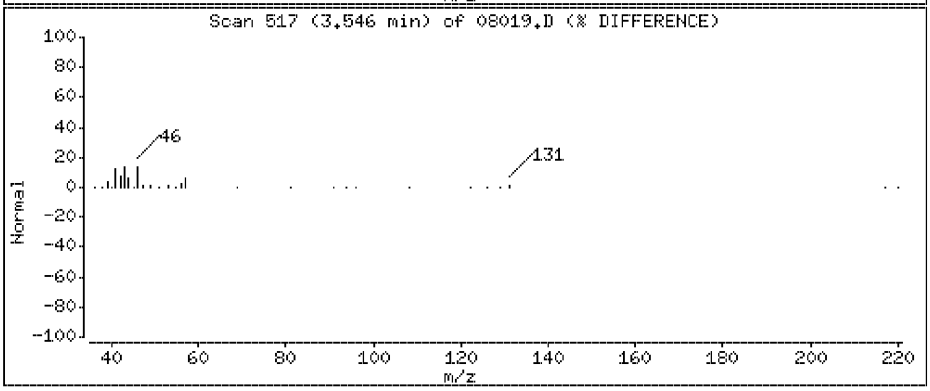
Concentration: 4.38 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

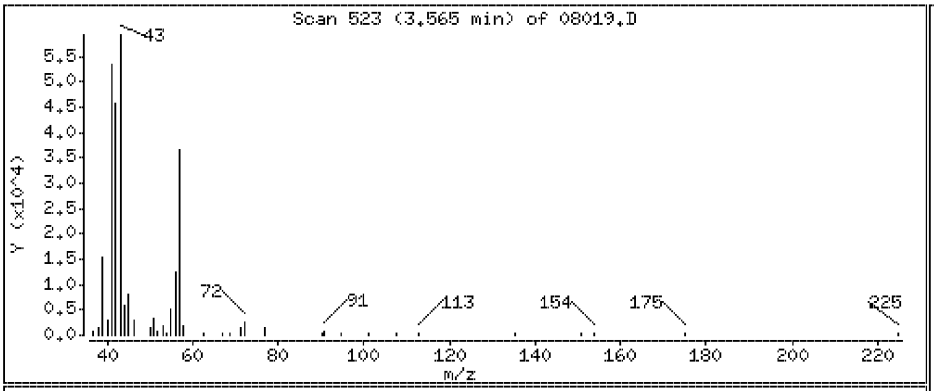
Operator: NCK

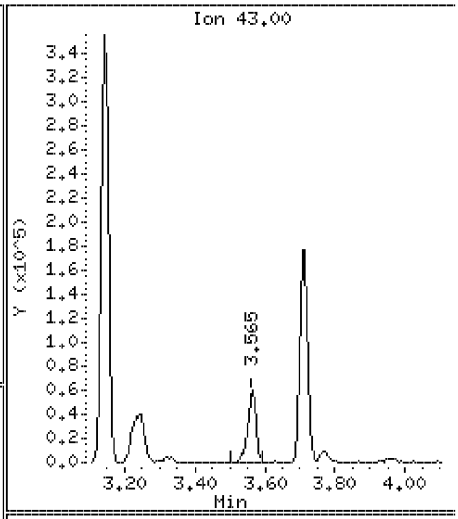
Column phase: J&W DB-5

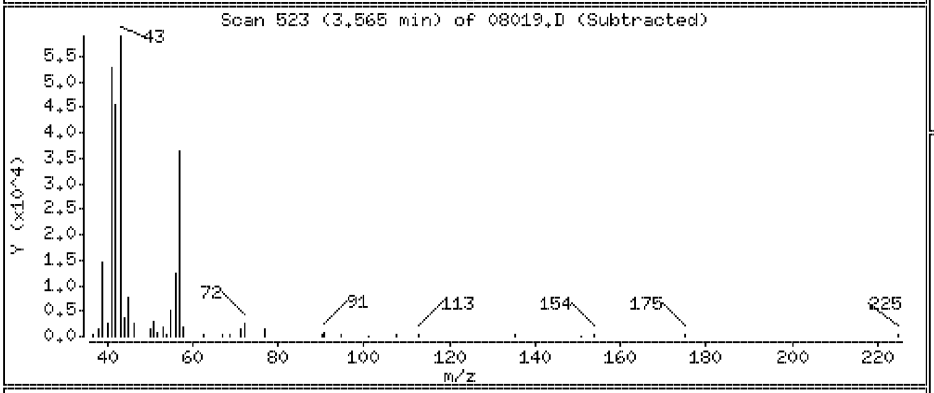
Column diameter: 0.32

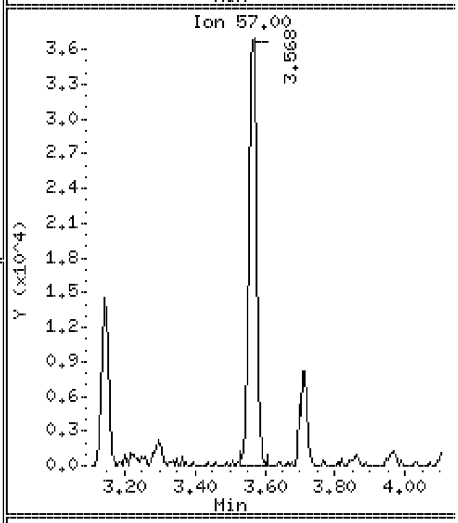
14 Isopentane

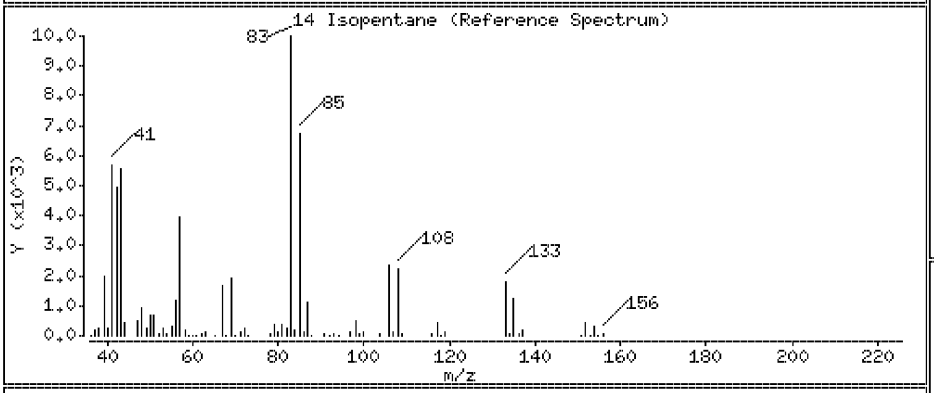
Concentration: 2.03 ppbv

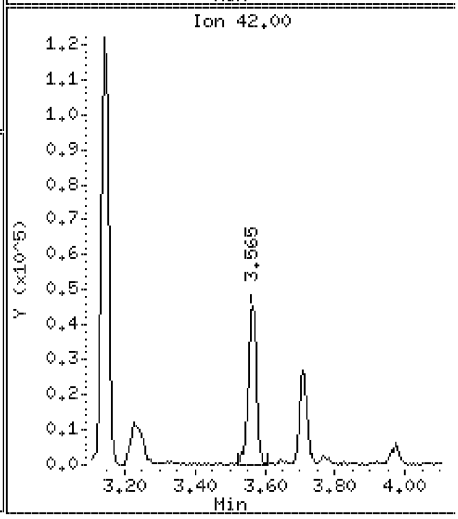


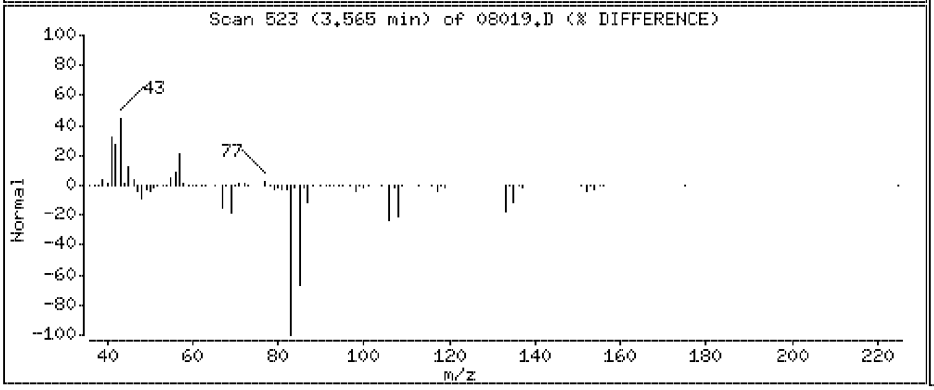












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

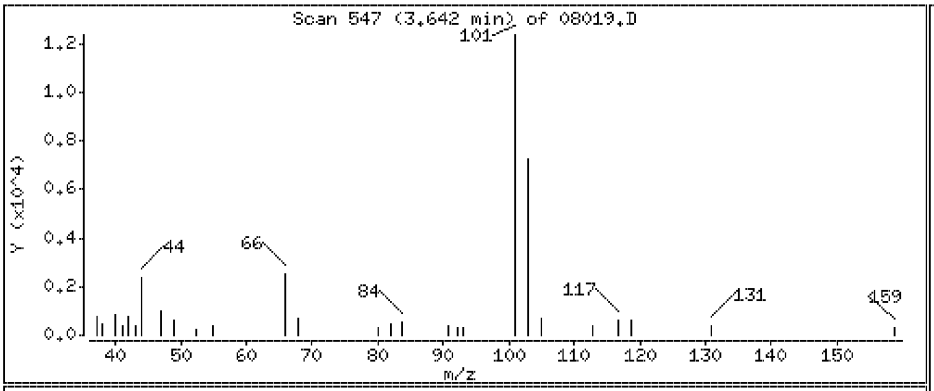
Operator: NCK

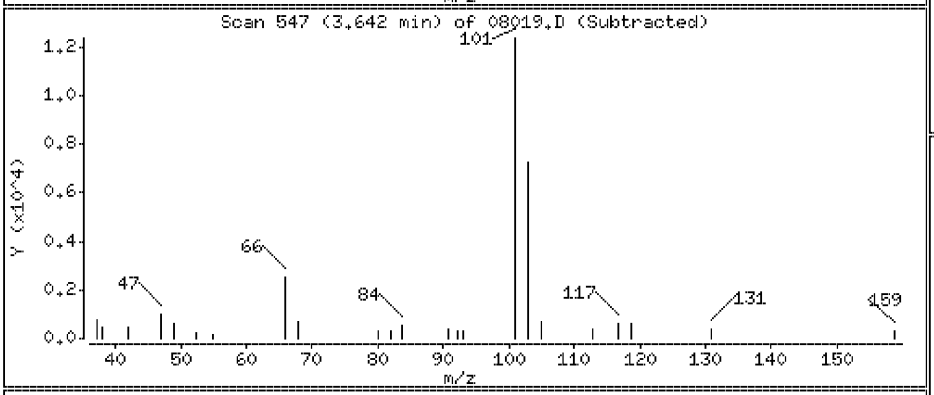
Column phase: J&W DB-5

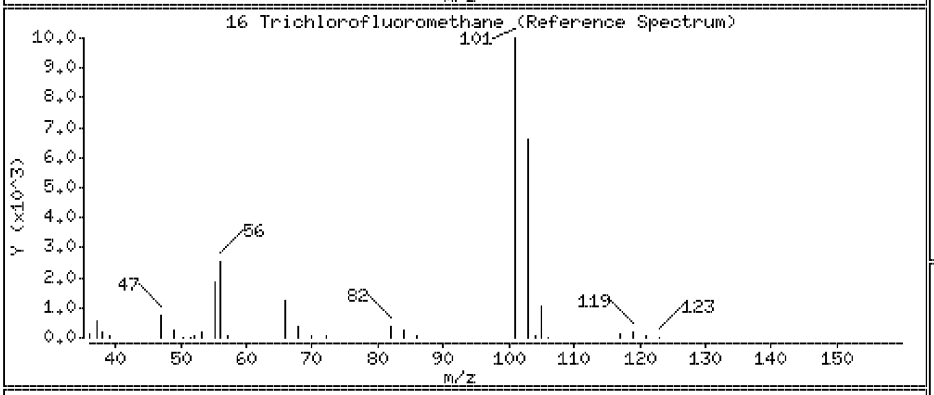
Column diameter: 0.32

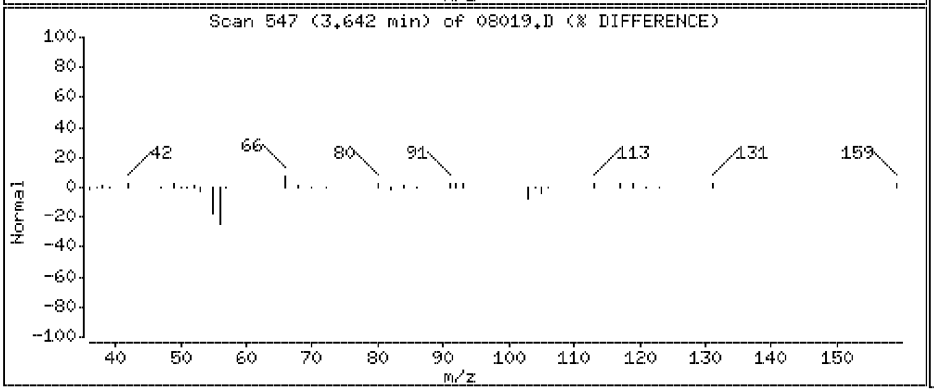
16 Trichlorofluoromethane

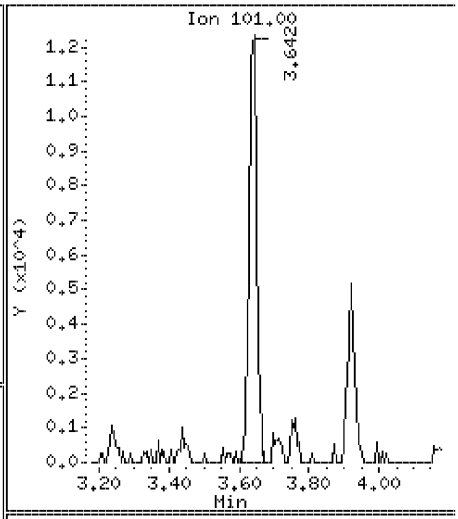
Concentration: 0.234 ppbv

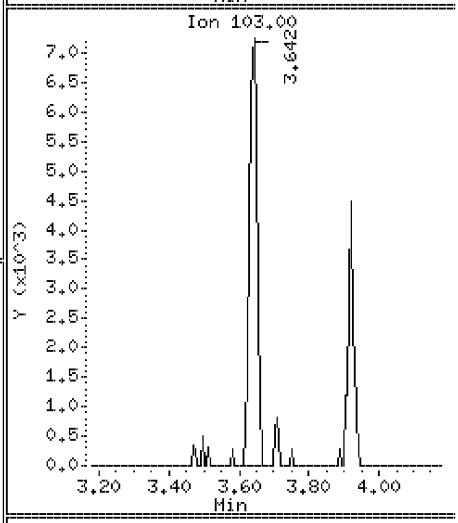


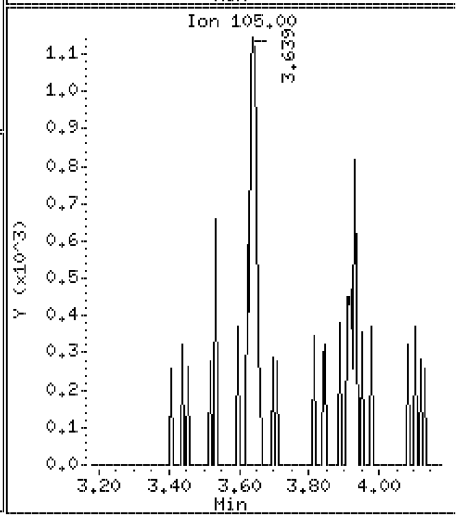












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

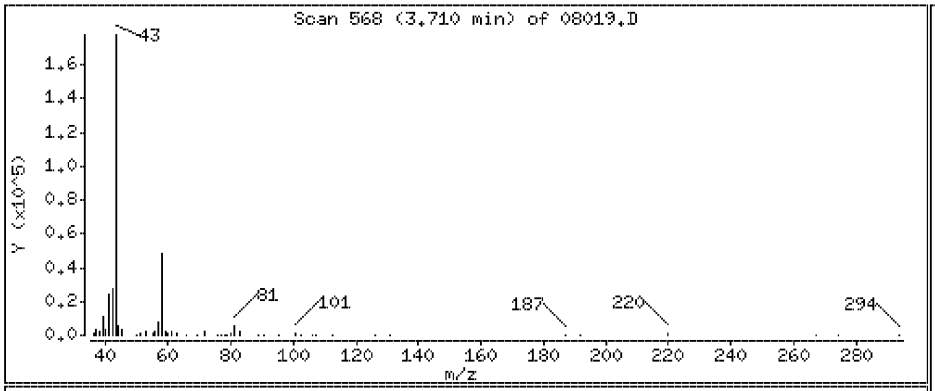
Operator: NCK

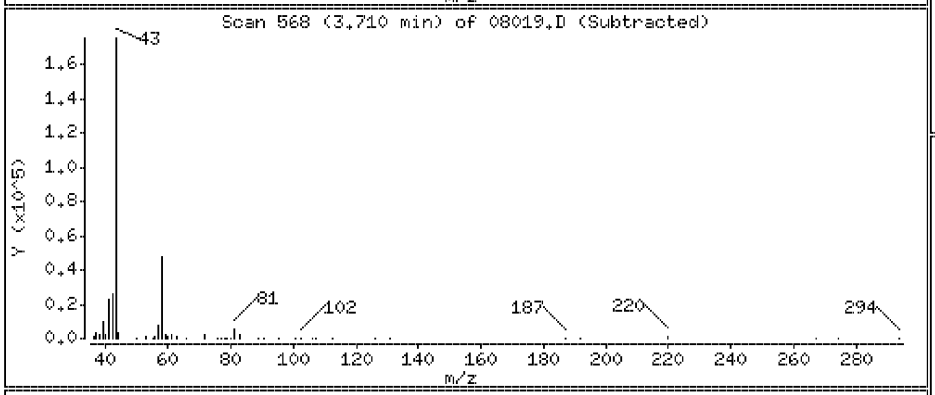
Column phase: J&W DB-5

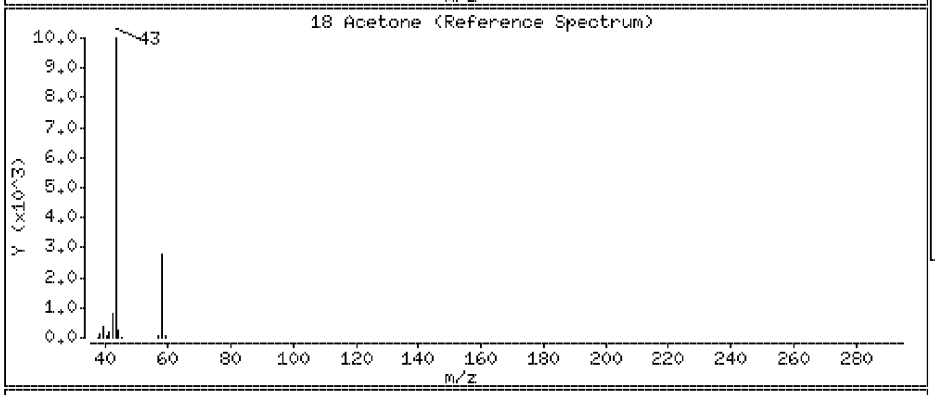
Column diameter: 0.32

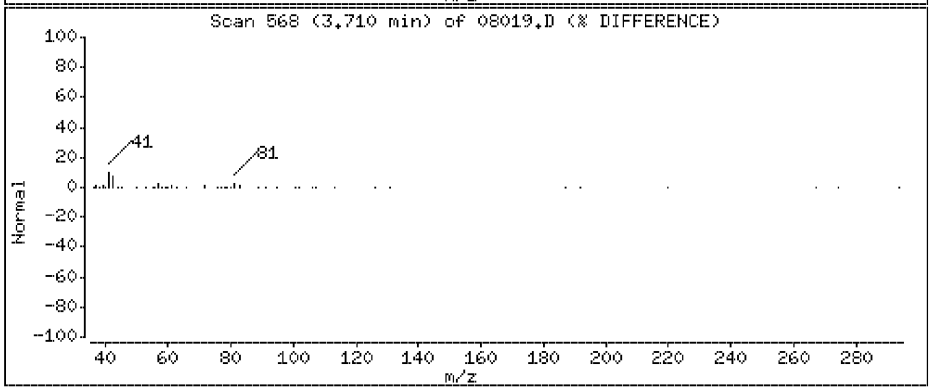
18 Acetone

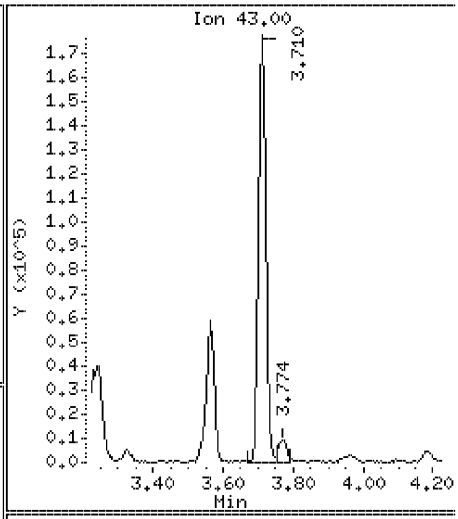
Concentration: 4.22 ppbv

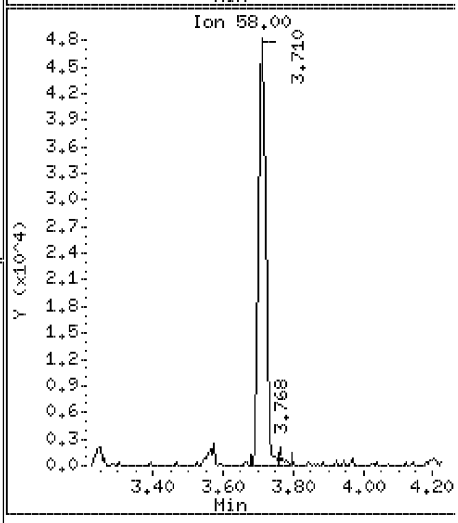












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

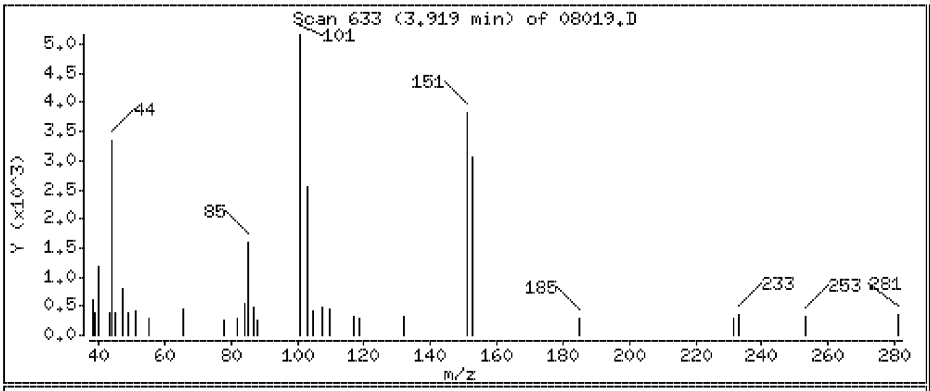
Operator: NCK

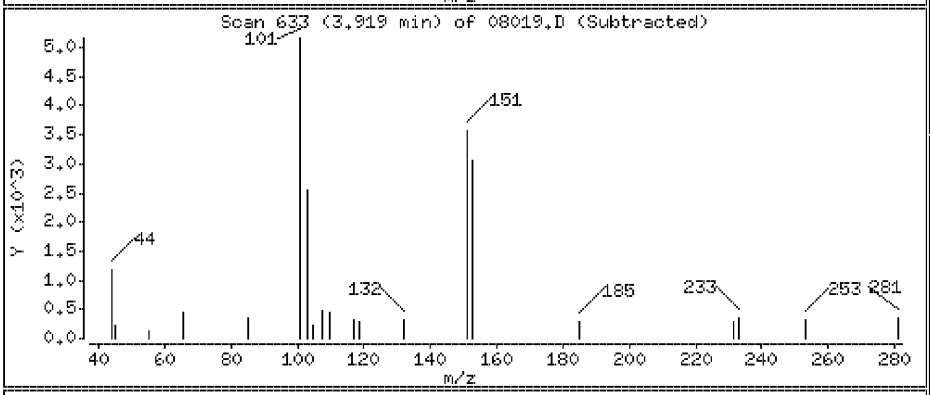
Column phase: J&W DB-5

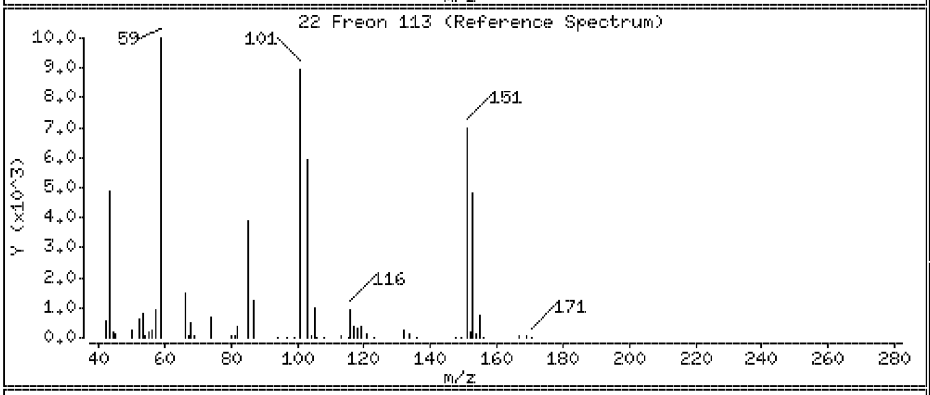
Column diameter: 0.32

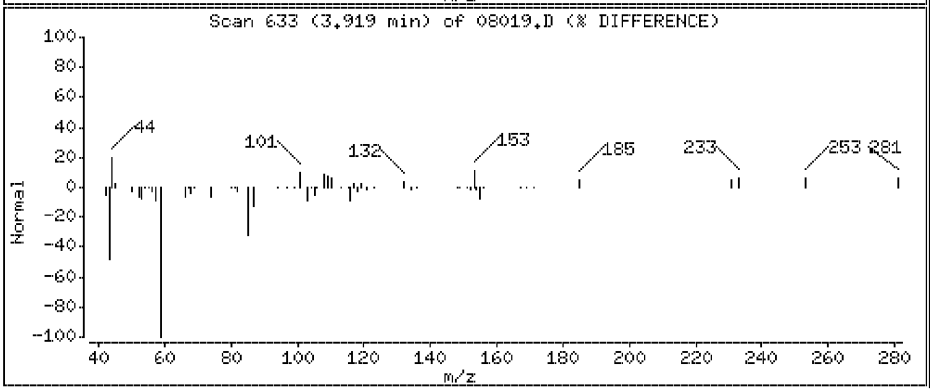
22 Freon 113

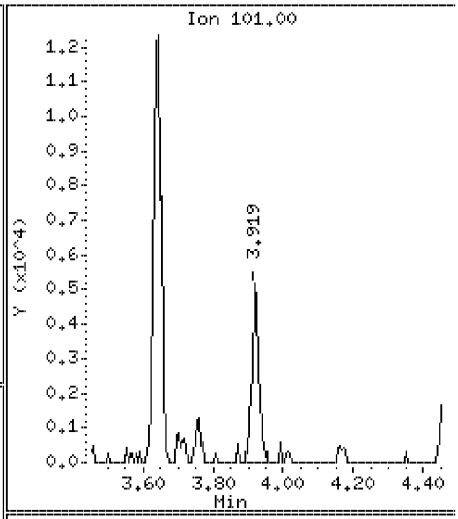
Concentration: 0.116 ppbv

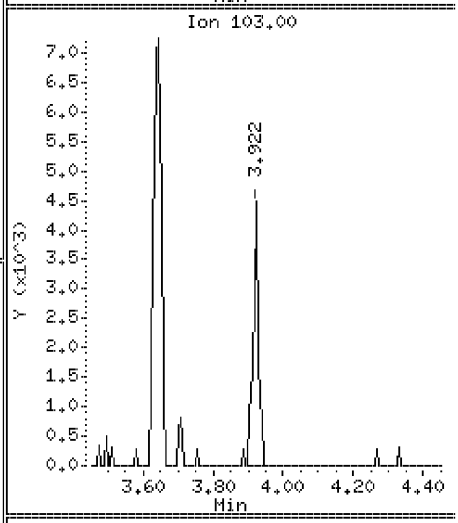


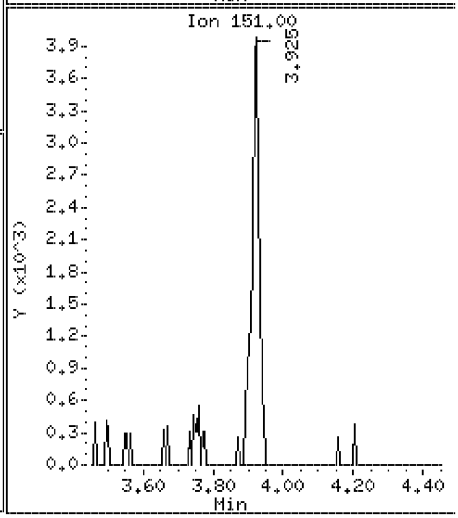












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

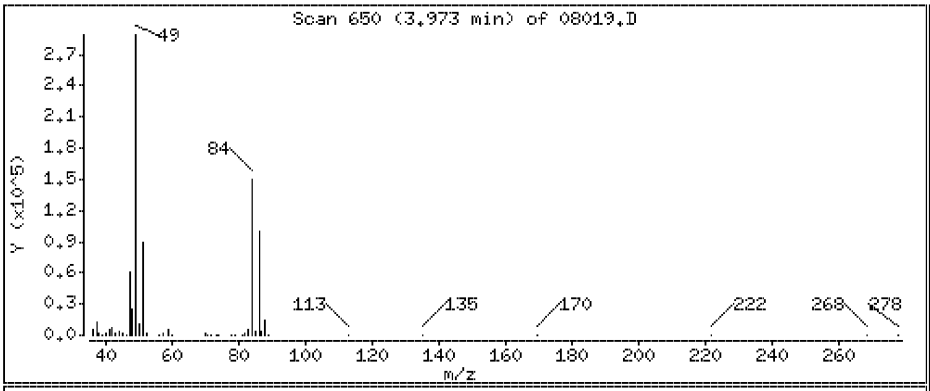
Operator: NCK

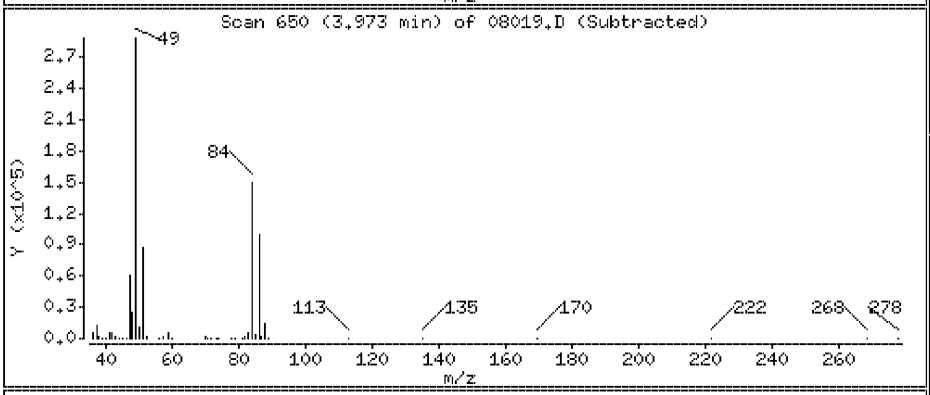
Column phase: J&W DB-5

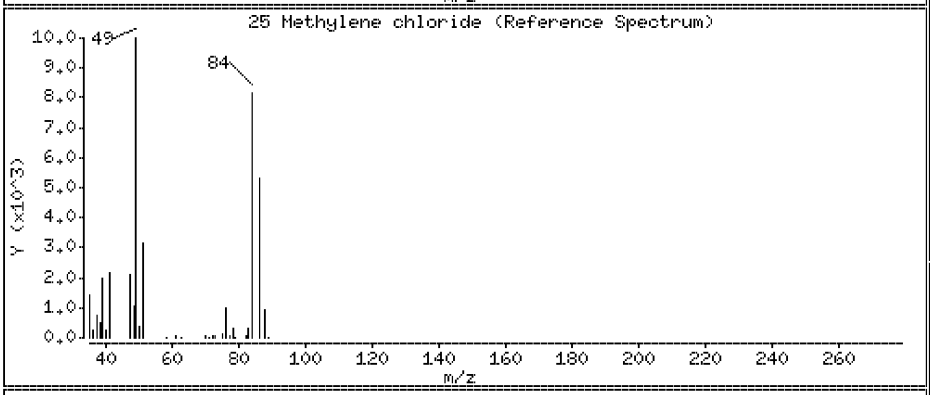
Column diameter: 0.32

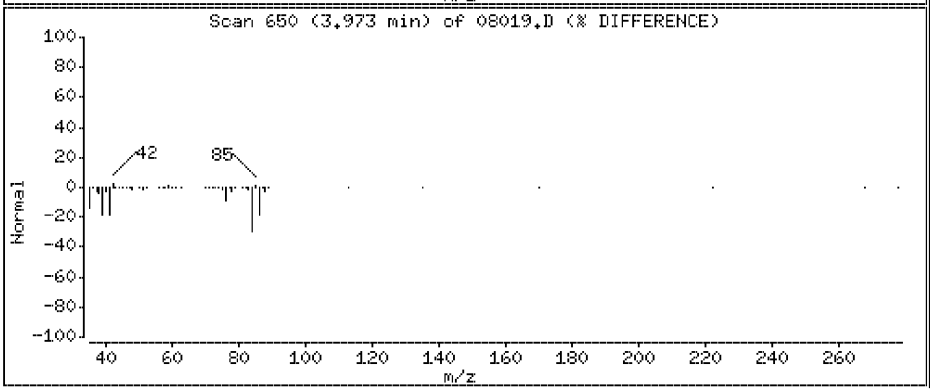
25 Methylene chloride

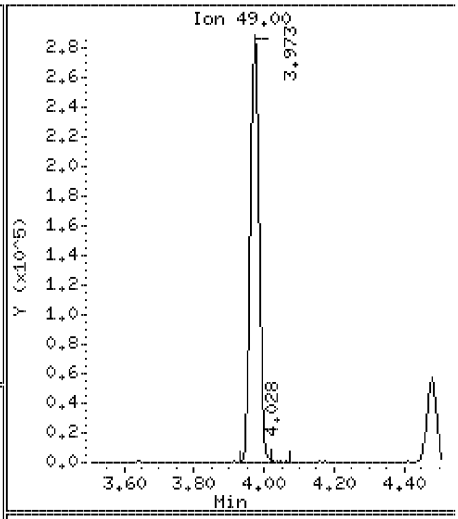
Concentration: 9.67 ppbv

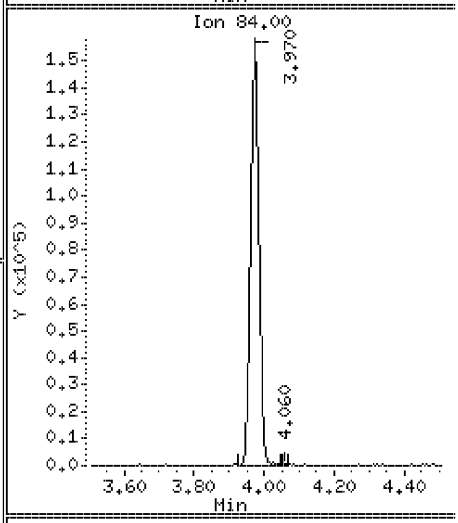


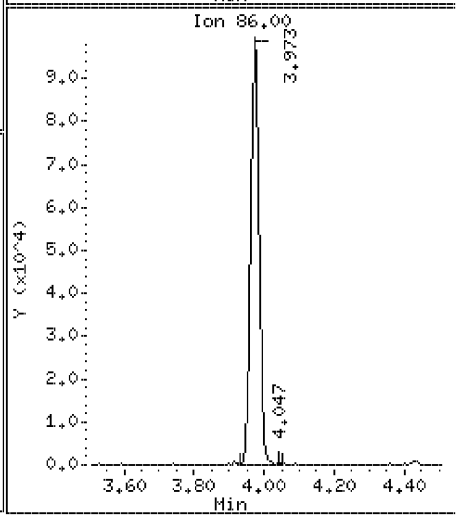












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

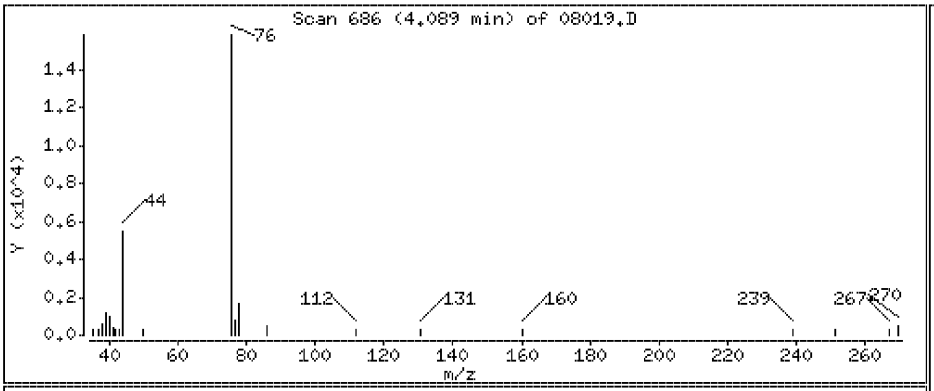
Operator: NCK

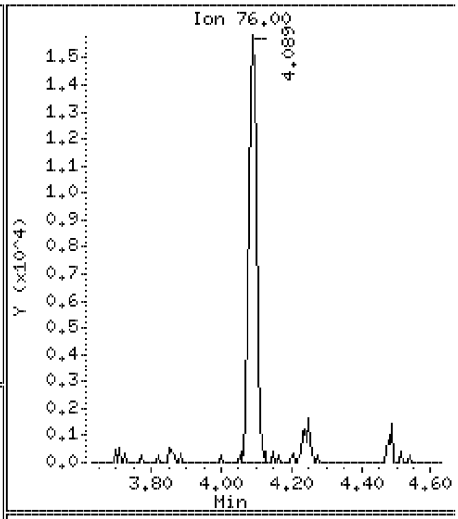
Column phase: J&W DB-5

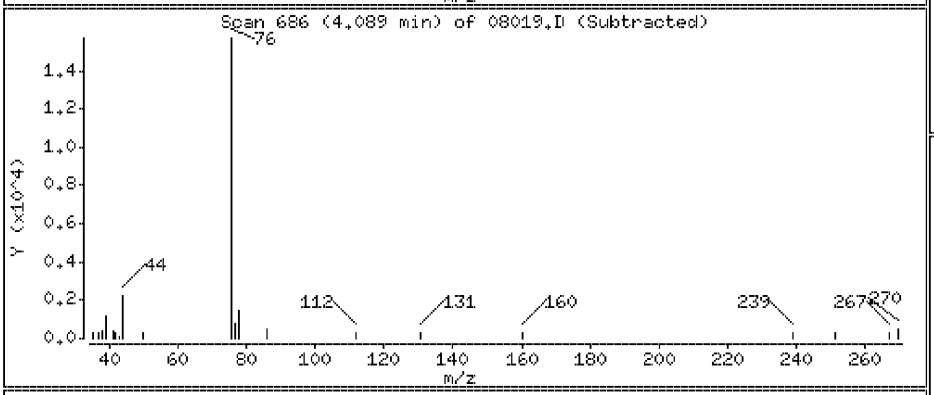
Column diameter: 0.32

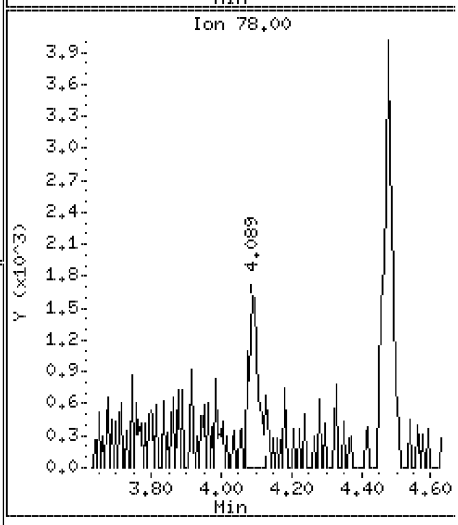
27 Carbon Disulfide

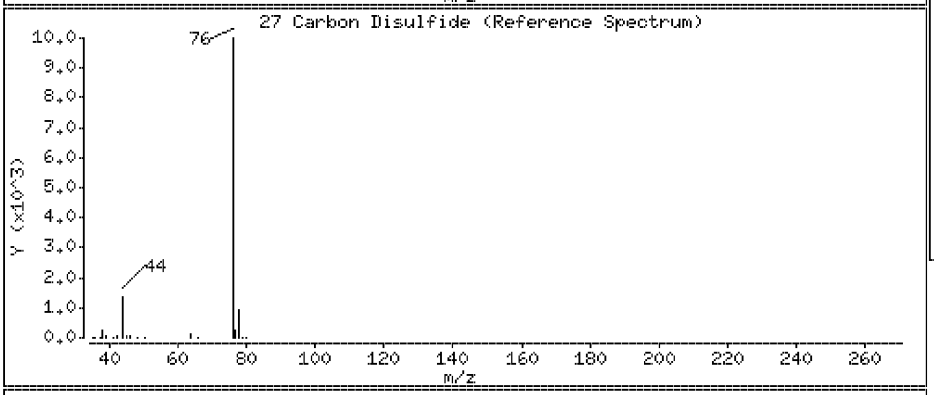
Concentration: 0.367 ppbv

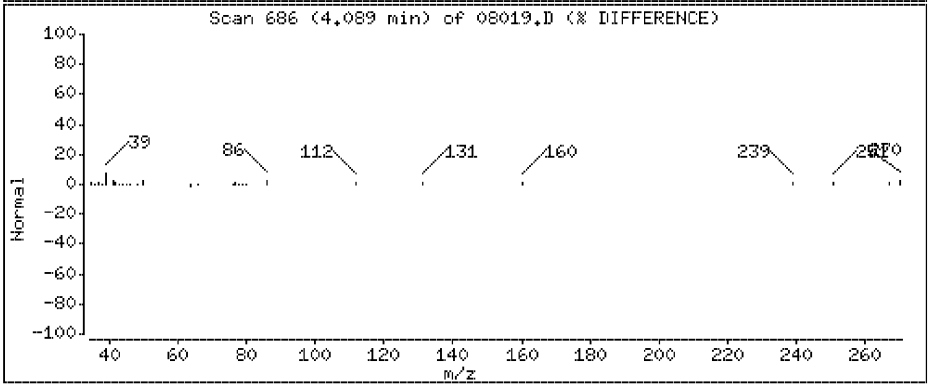












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

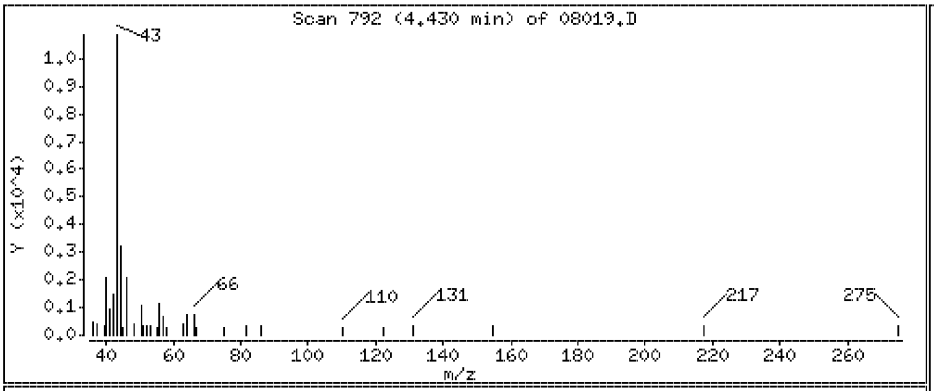
Operator: NCK

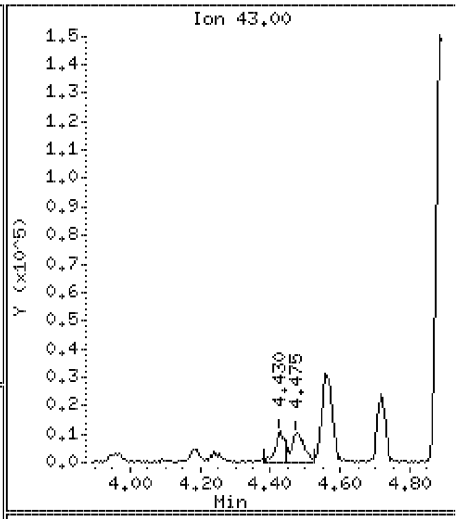
Column phase: J&W DB-5

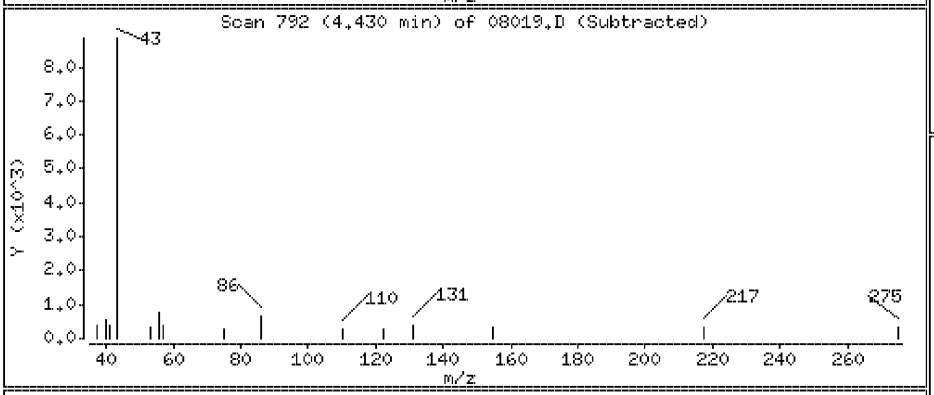
Column diameter: 0.32

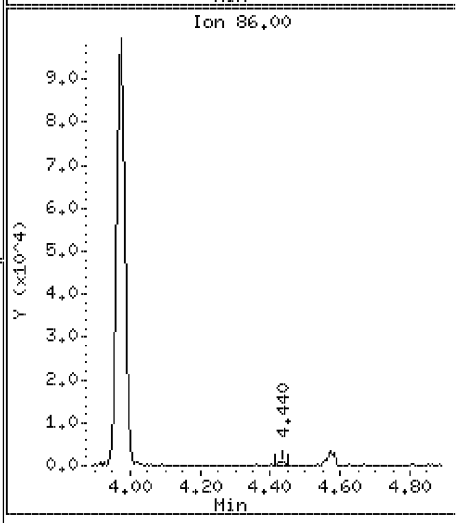
30 Vinyl Acetate

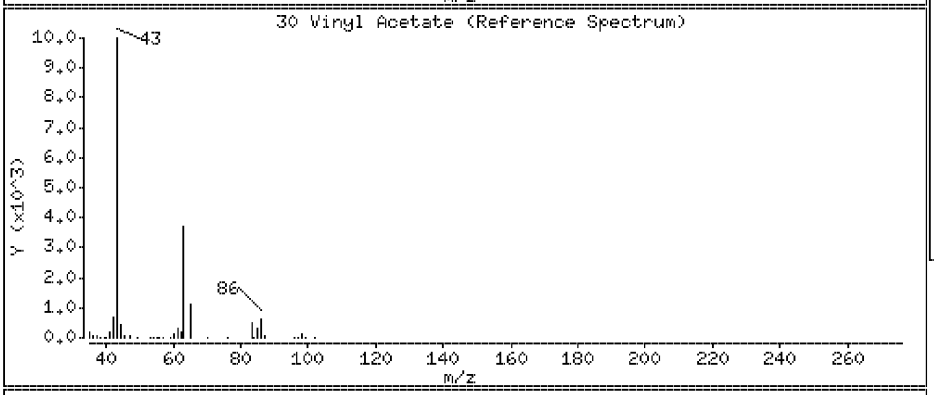
Concentration: 0.203 ppbv

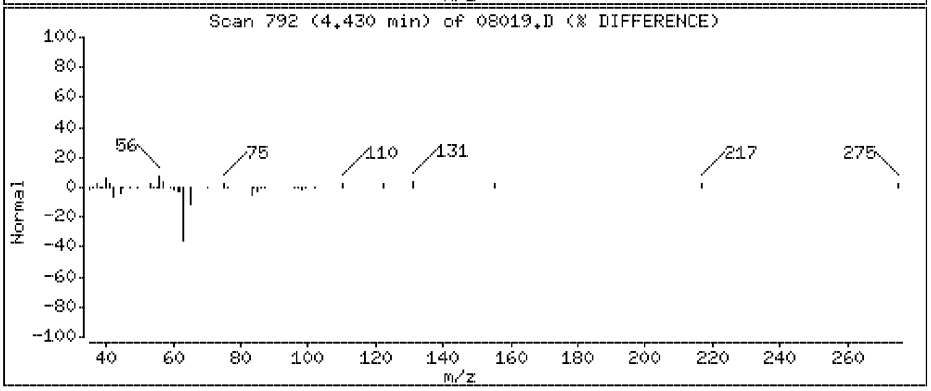












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

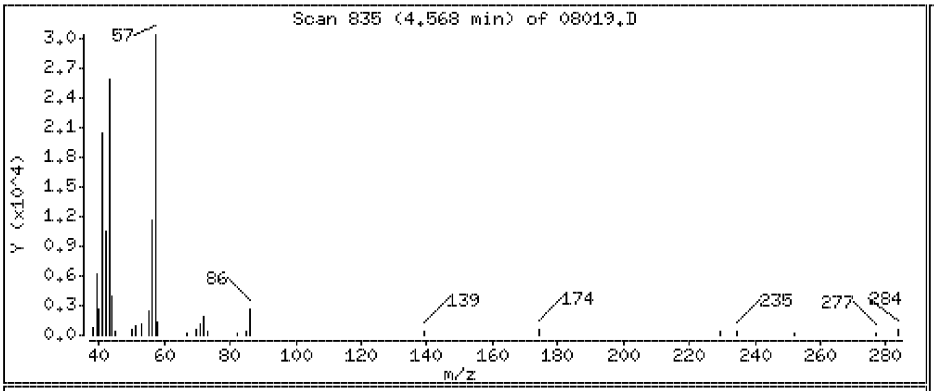
Operator: NCK

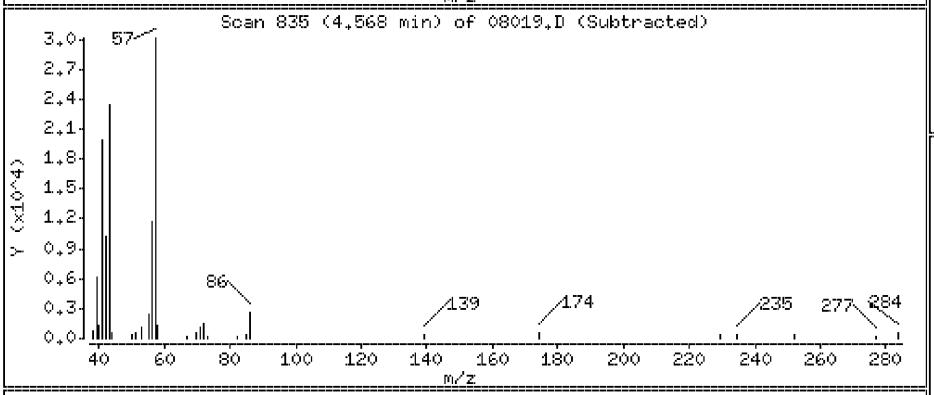
Column phase: J&W DB-5

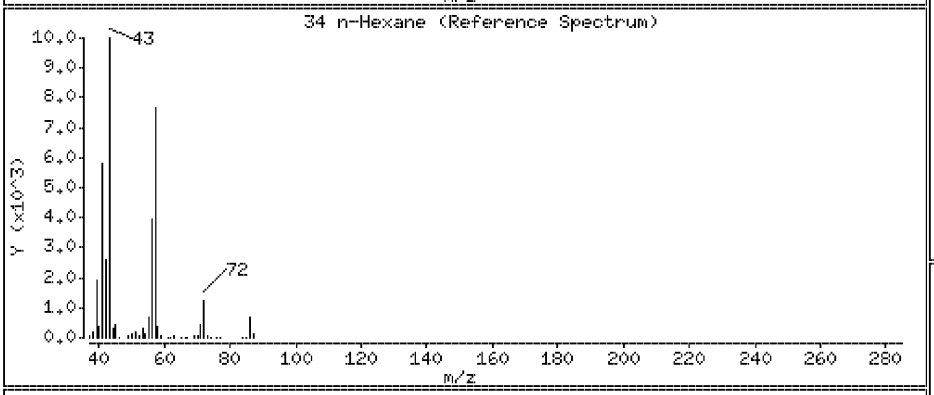
Column diameter: 0.32

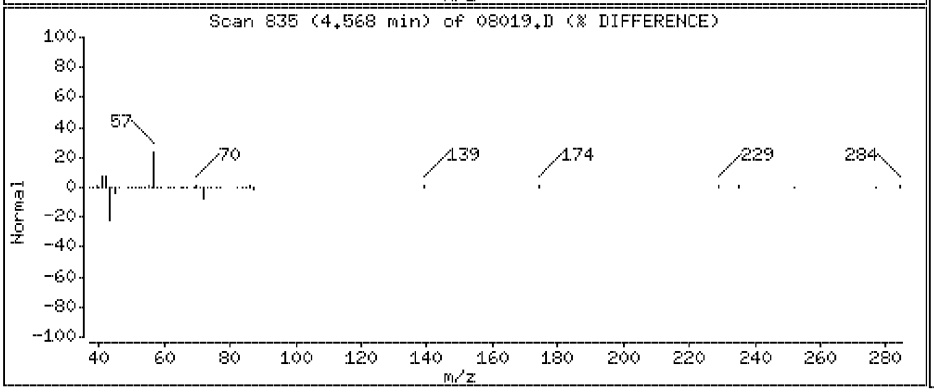
34 n-Hexane

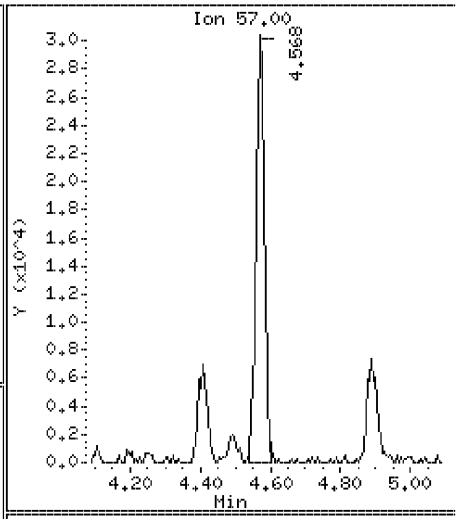
Concentration: 0.751 ppbv

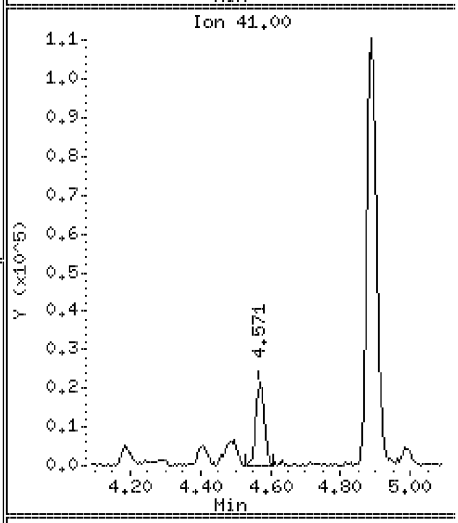


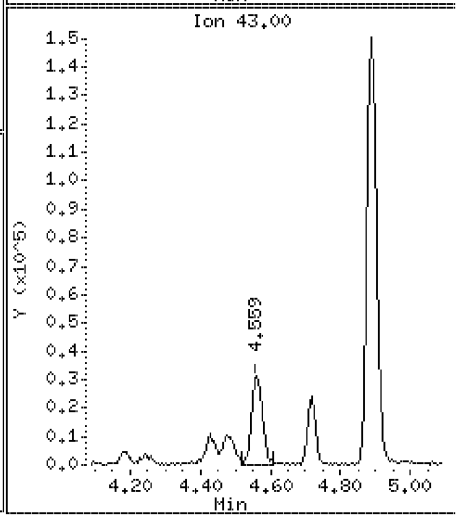












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

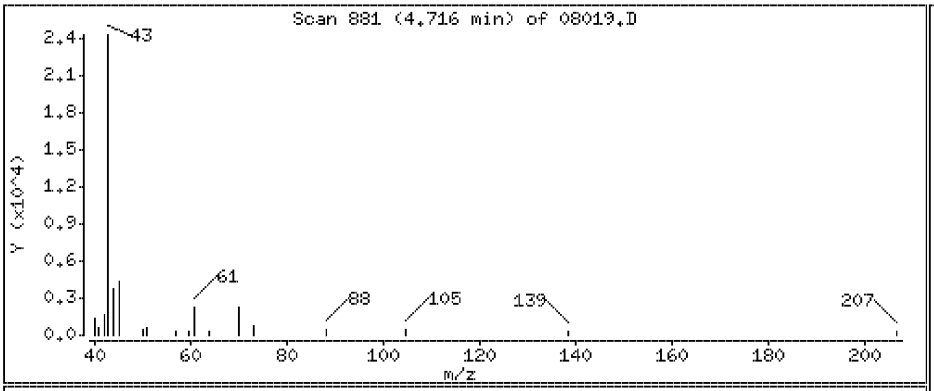
Operator: NCK

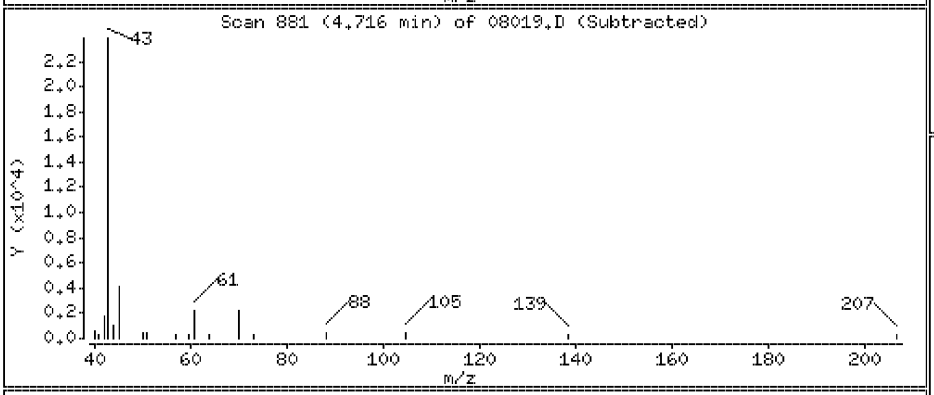
Column phase: J&W DB-5

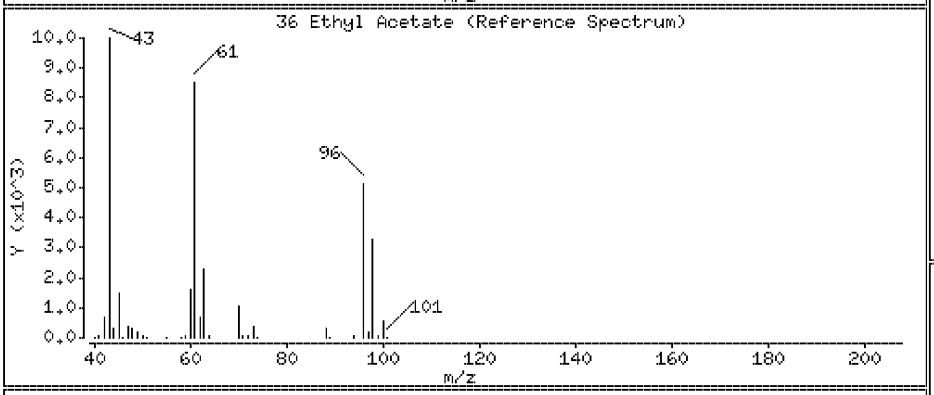
Column diameter: 0.32

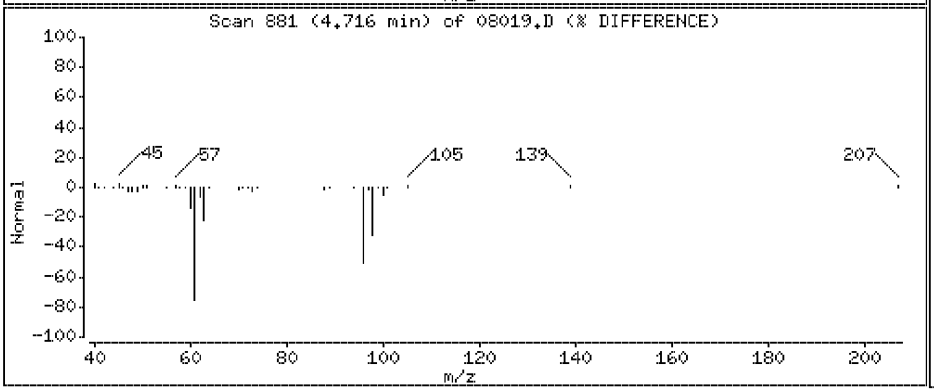
36 Ethyl Acetate

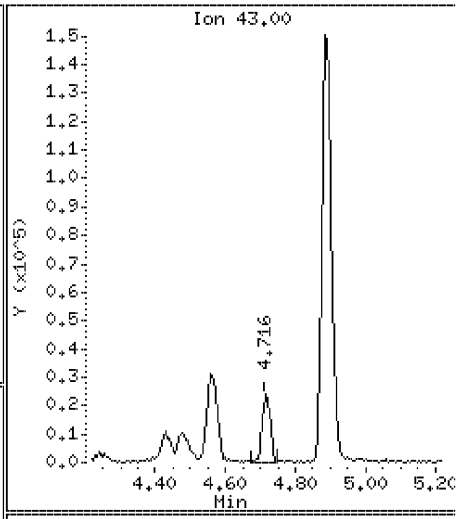
Concentration: 0.415 ppbv

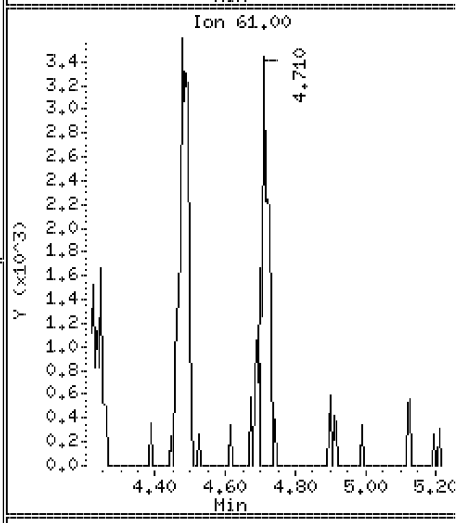


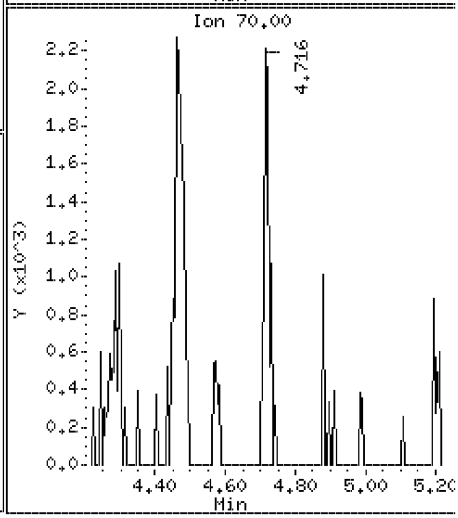












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

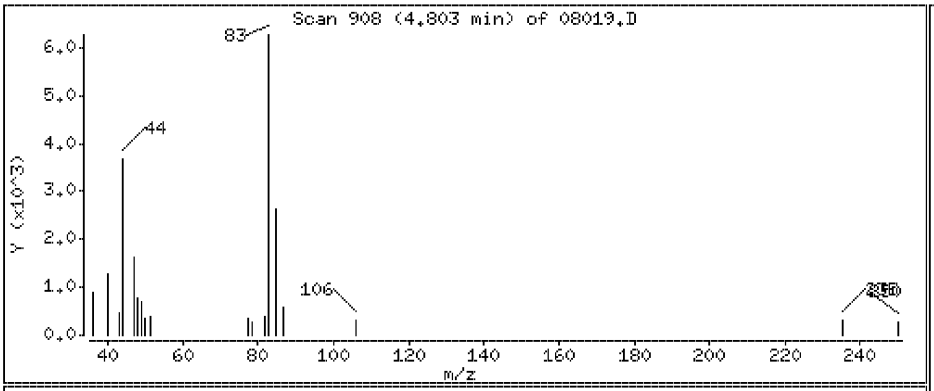
Operator: NCK

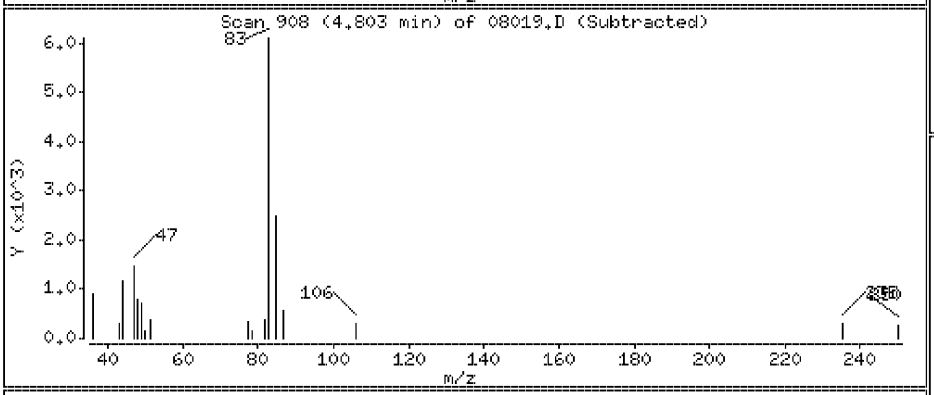
Column phase: J&W DB-5

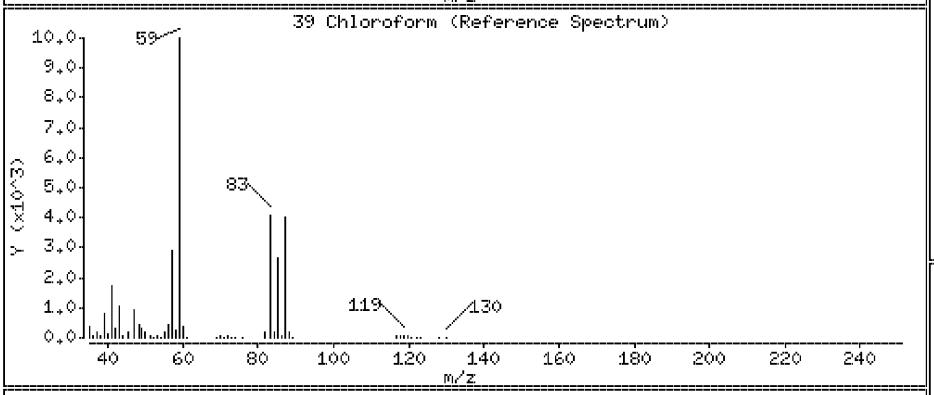
Column diameter: 0.32

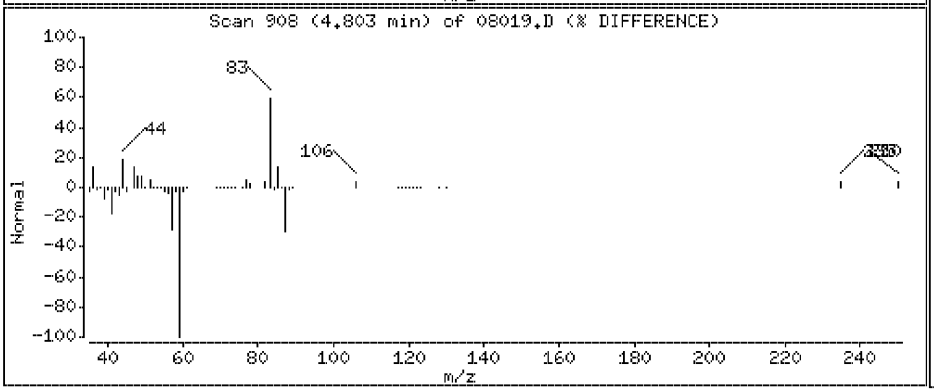
39 Chloroform

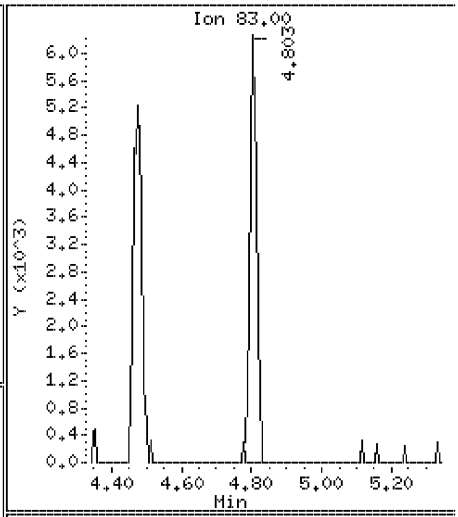
Concentration: 0.114 ppbv

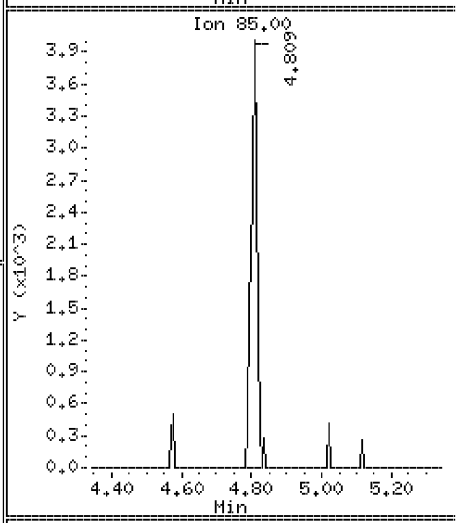


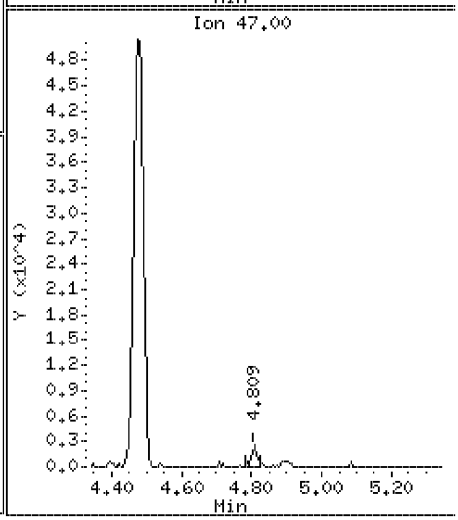












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

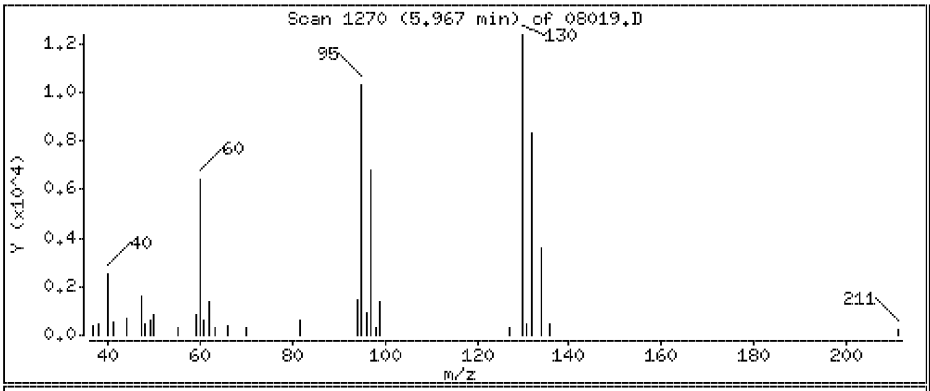
Operator: NCK

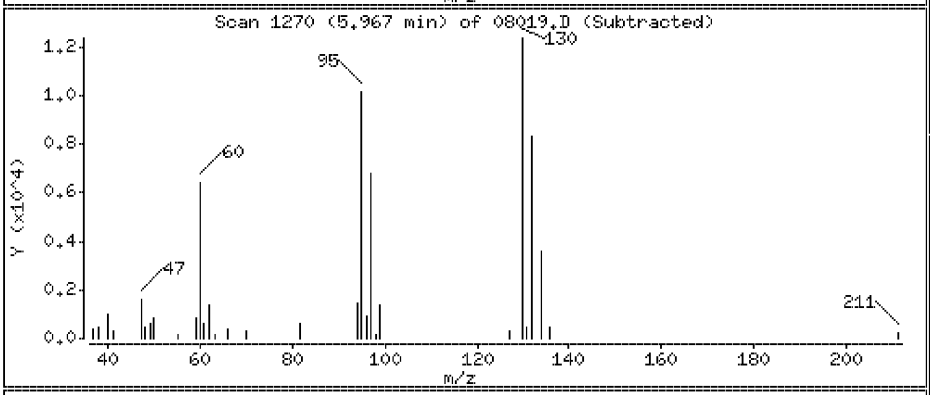
Column phase: J&W DB-5

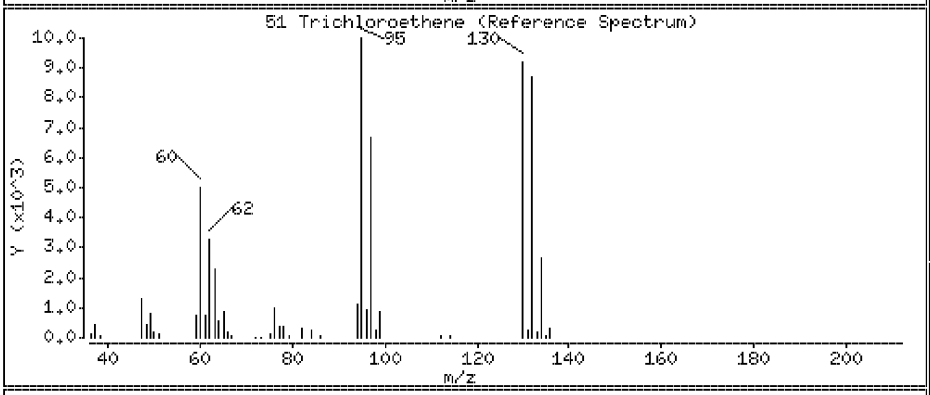
Column diameter: 0.32

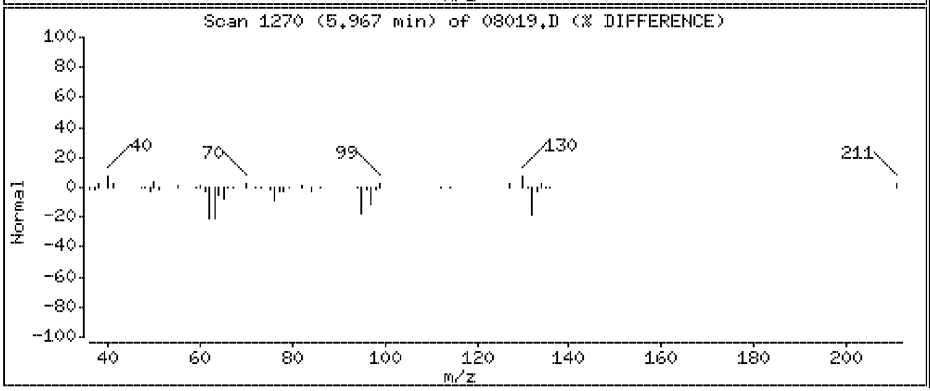
51 Trichloroethene

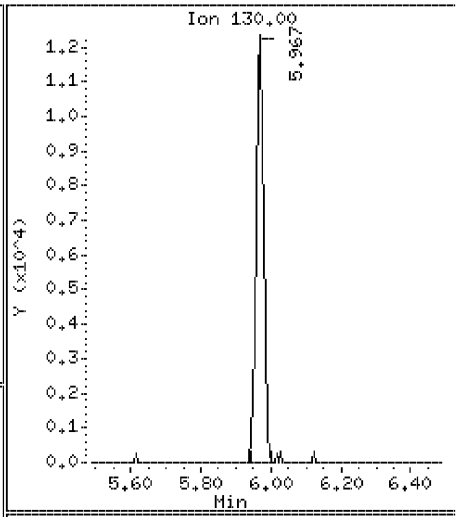
Concentration: 0.343 ppbv

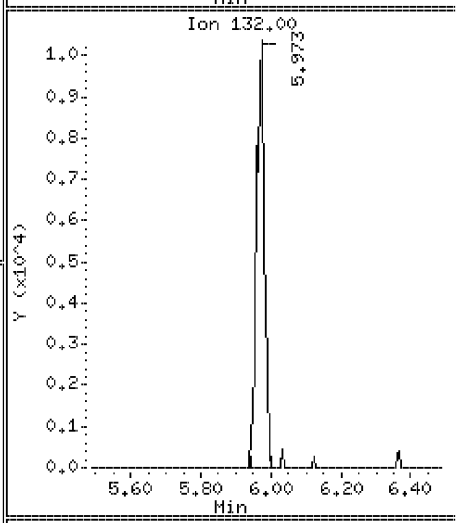


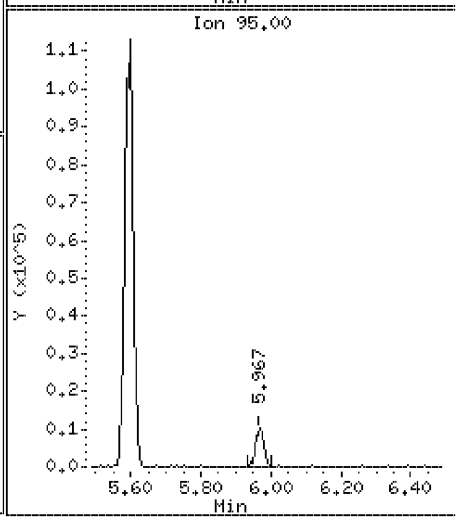












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

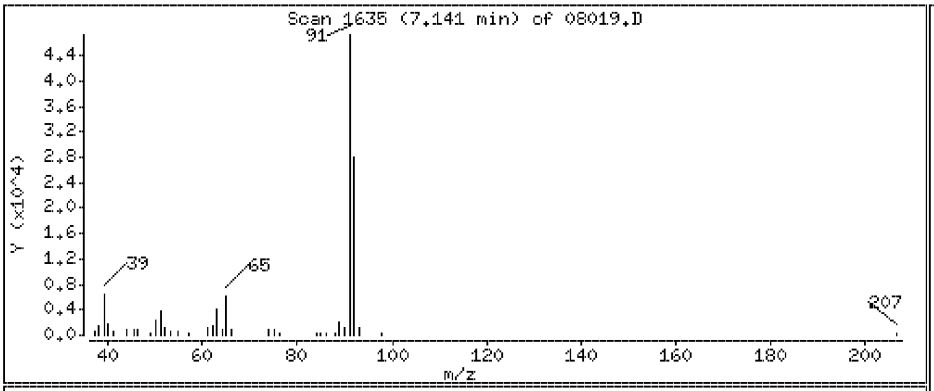
Operator: NCK

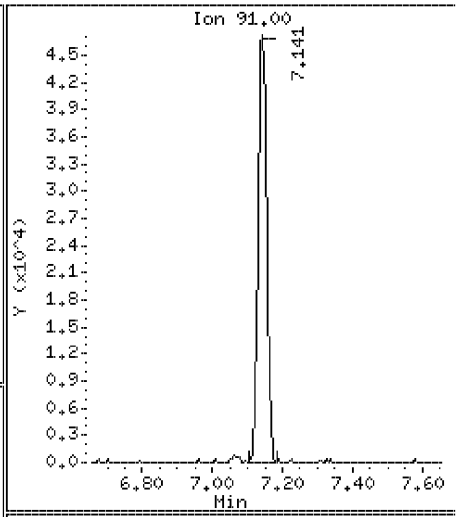
Column phase: J&W DB-5

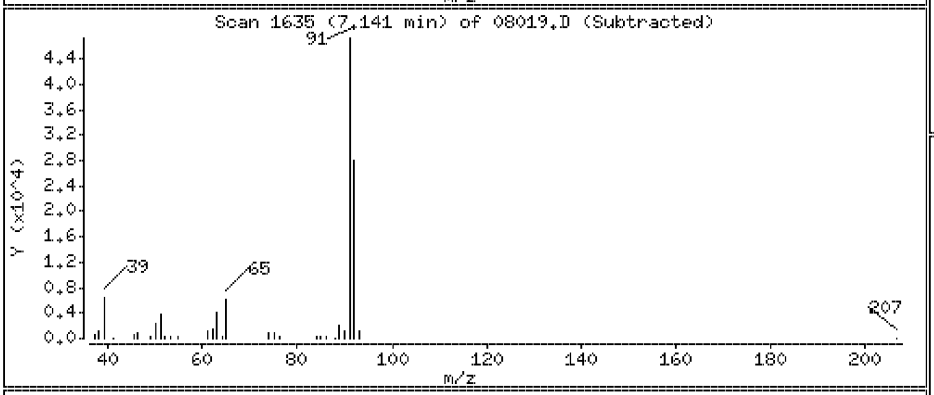
Column diameter: 0.32

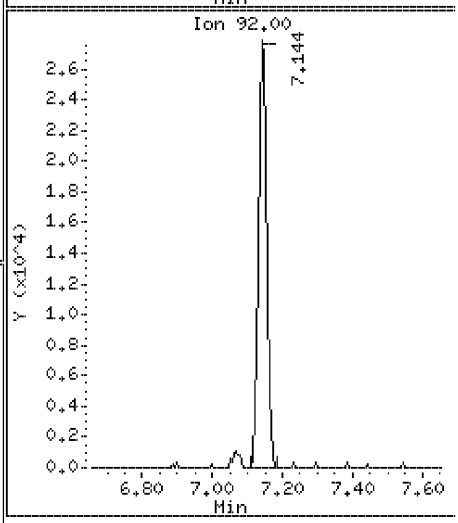
61 Toluene

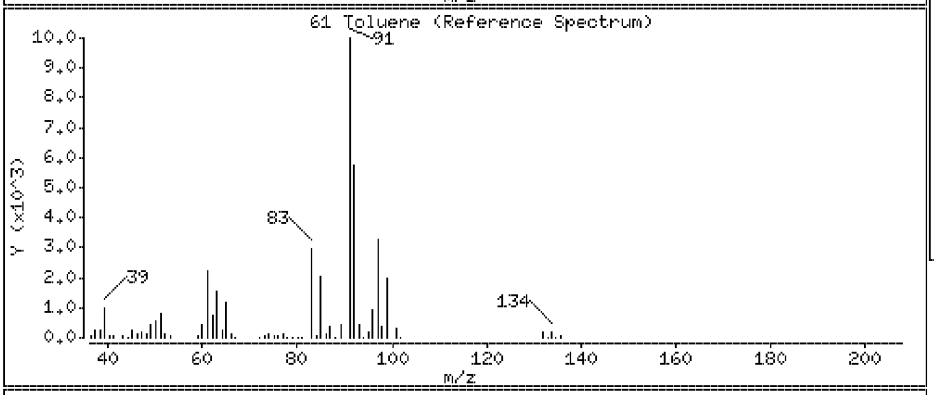
Concentration: 0.616 ppbv

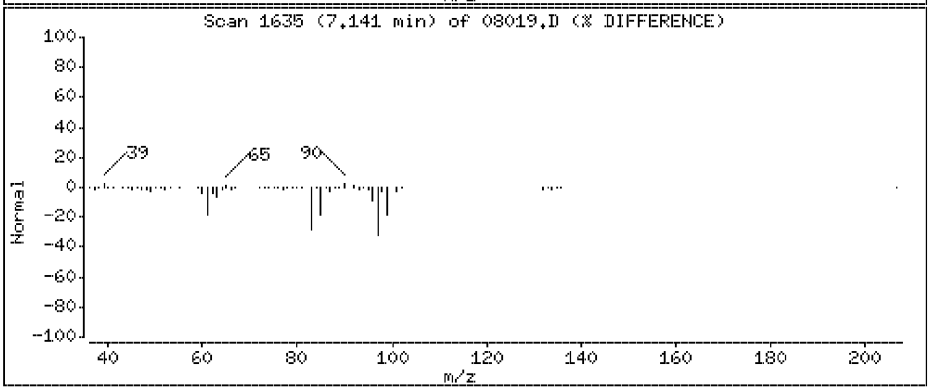












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

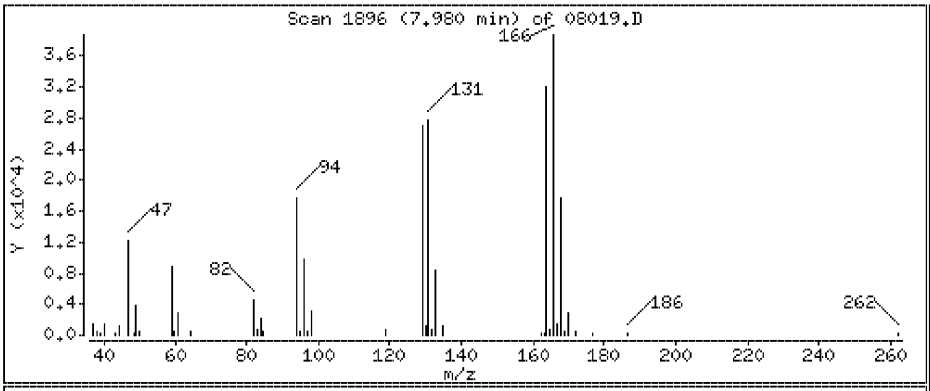
Operator: NCK

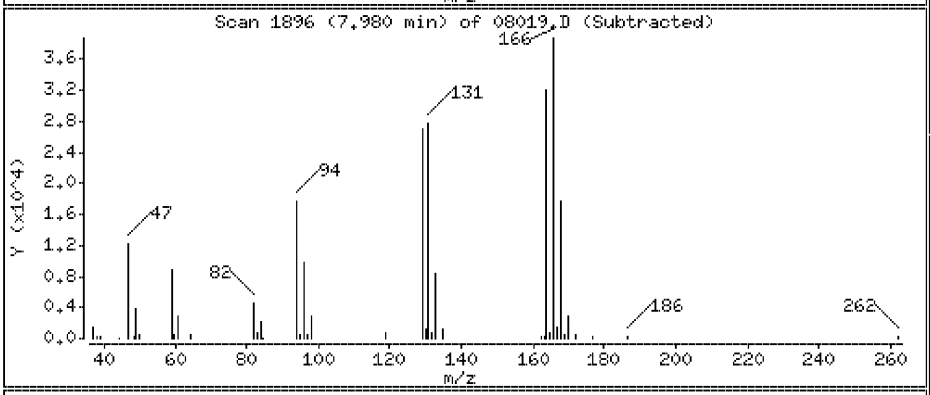
Column phase: J&W DB-5

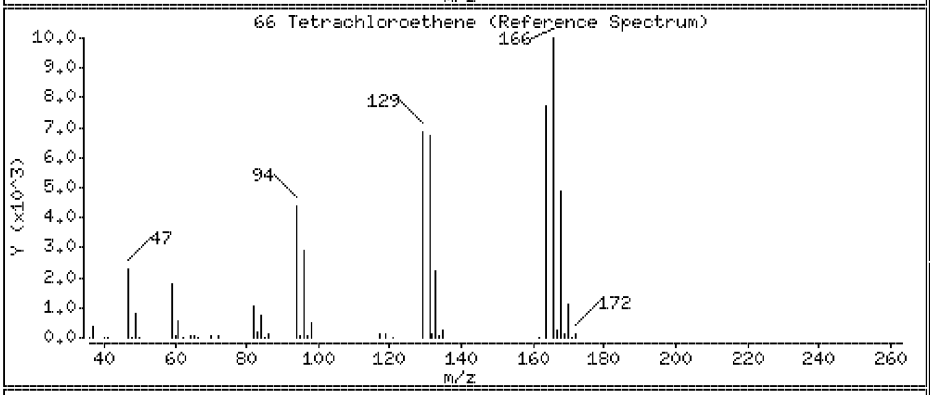
Column diameter: 0.32

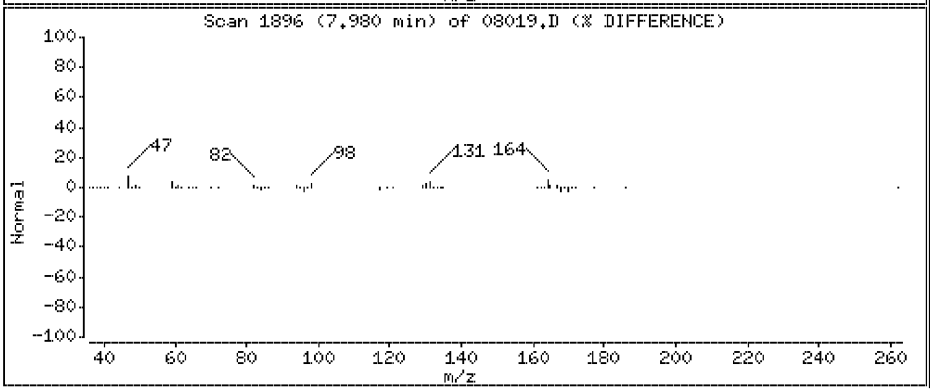
66 Tetrachloroethene

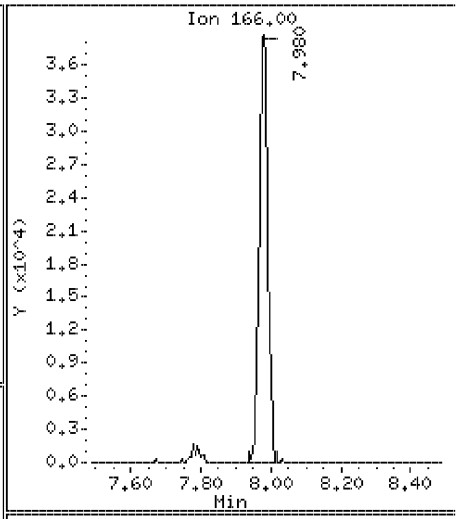
Concentration: 1.16 ppbv

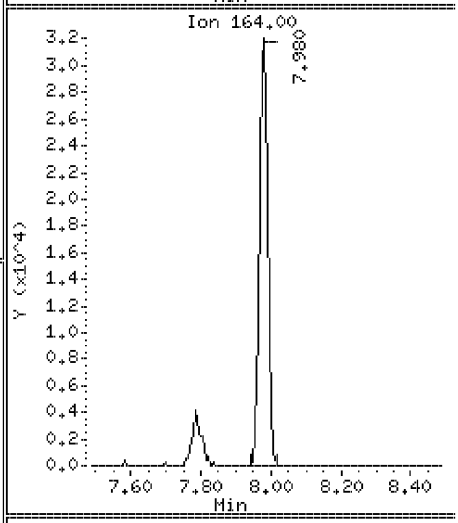


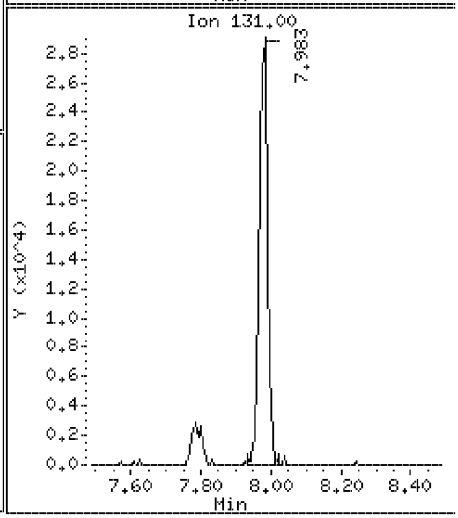












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

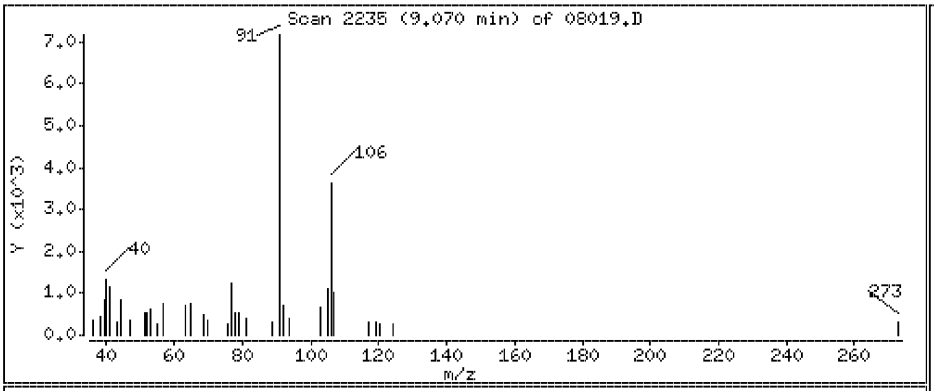
Operator: NCK

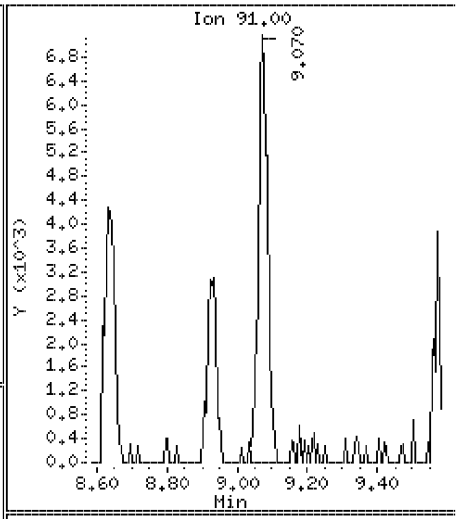
Column phase: J&W DB-5

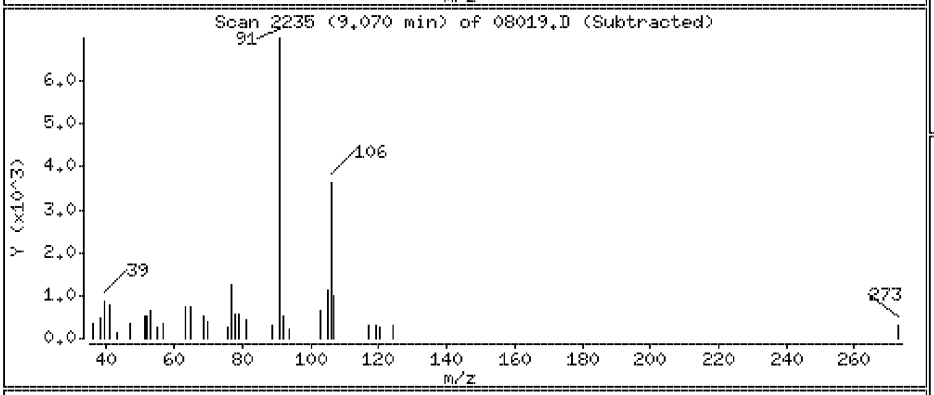
Column diameter: 0.32

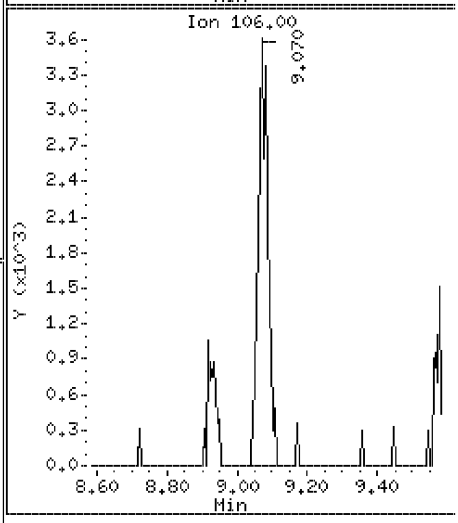
70 m&p-Xylene

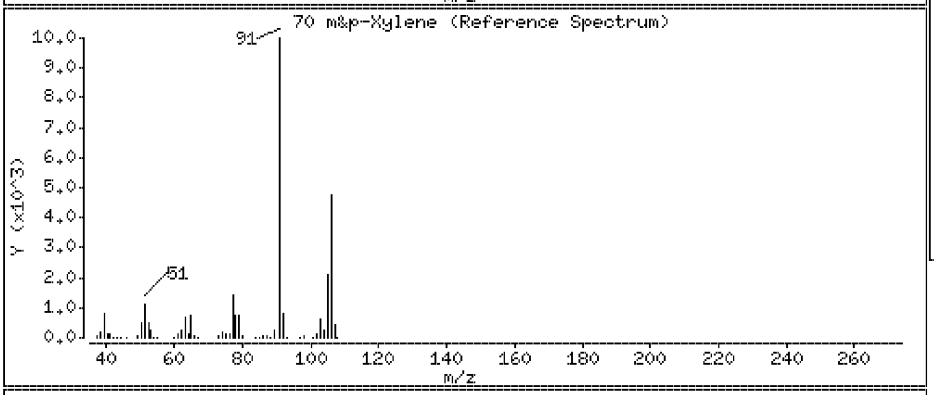
Concentration: 0.392 ppbv

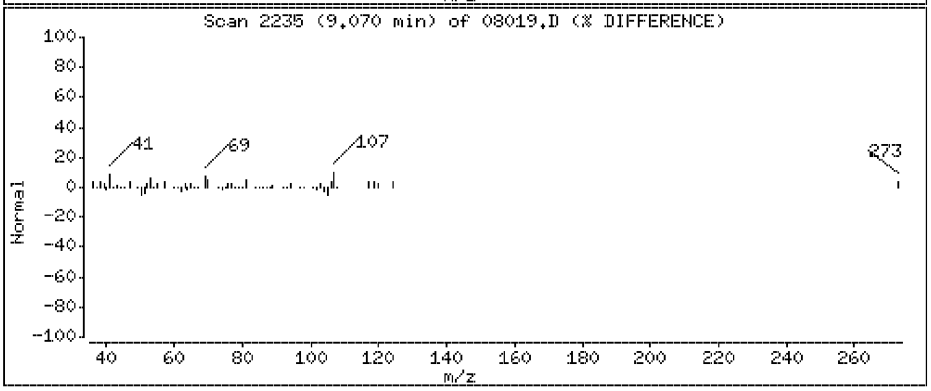












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

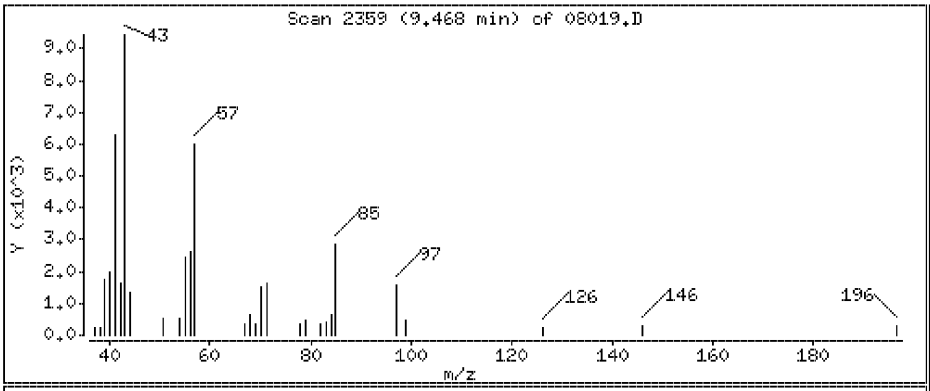
Operator: NCK

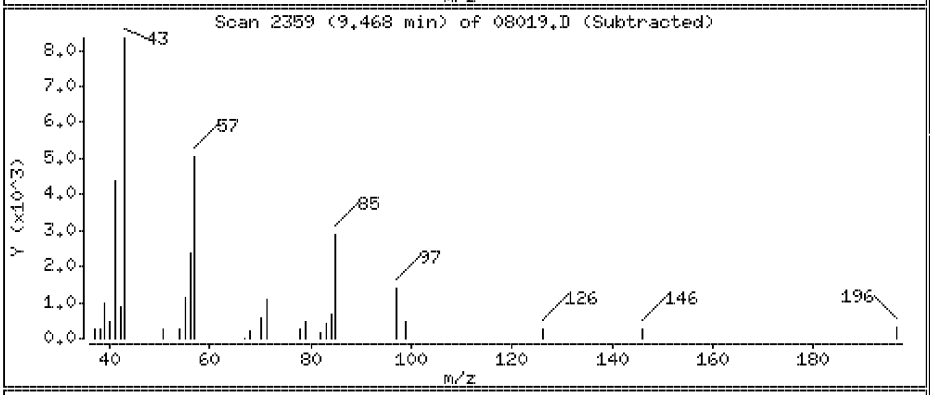
Column phase: J&W DB-5

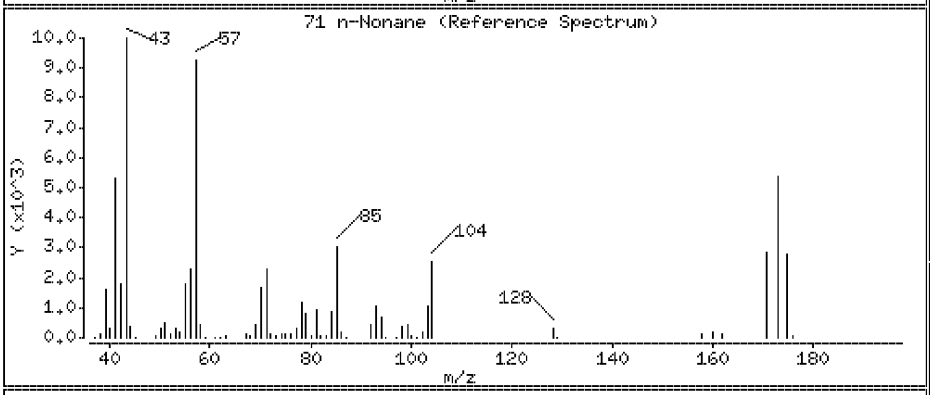
Column diameter: 0.32

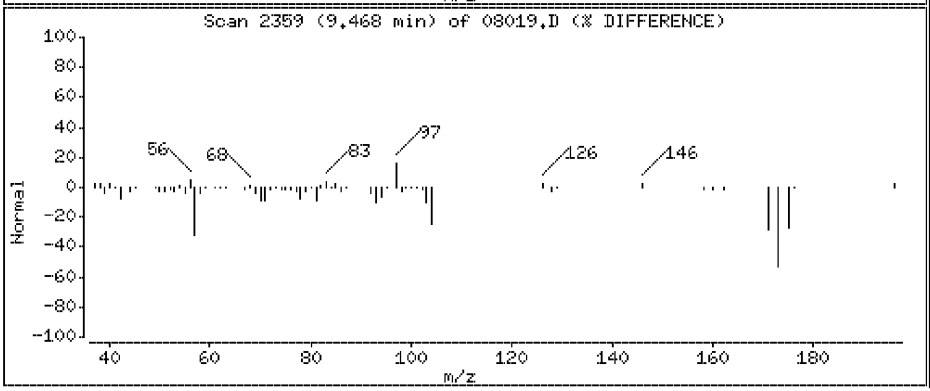
71 n-Nonane

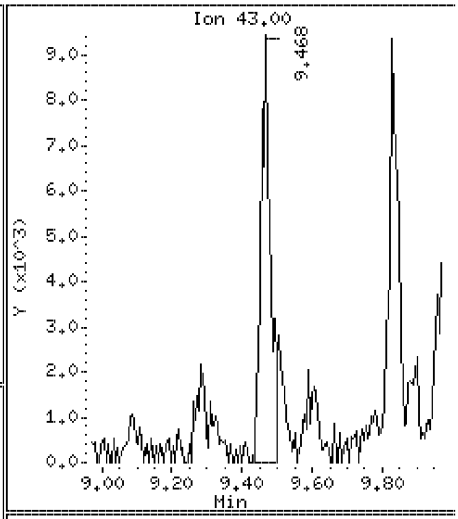
Concentration: 0.215 ppbv

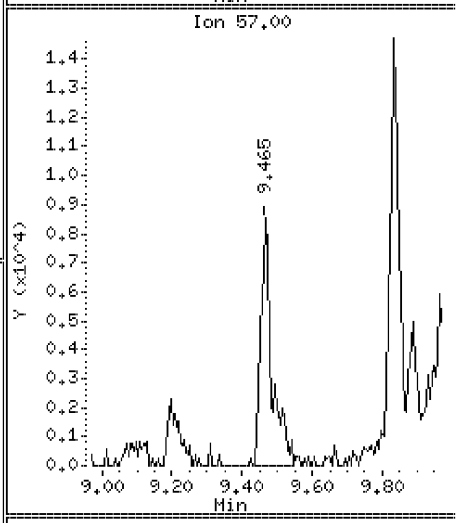


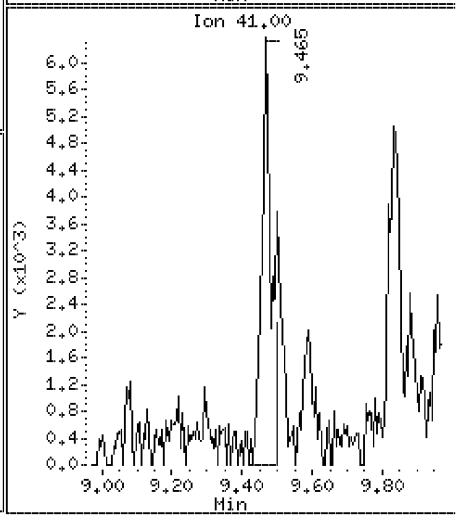












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

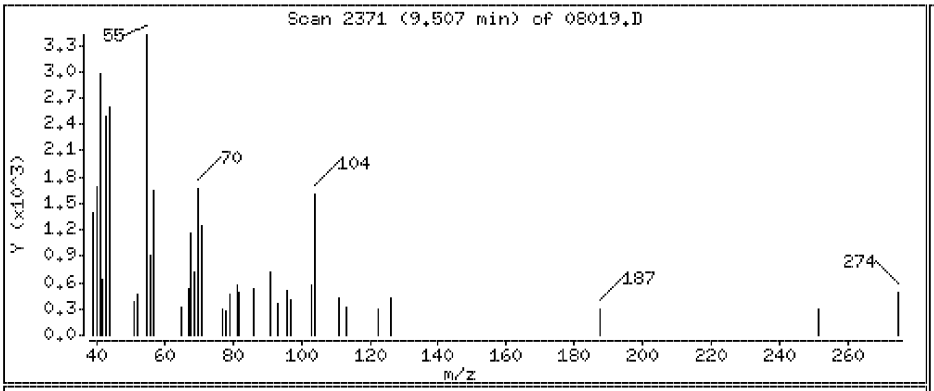
Operator: NCK

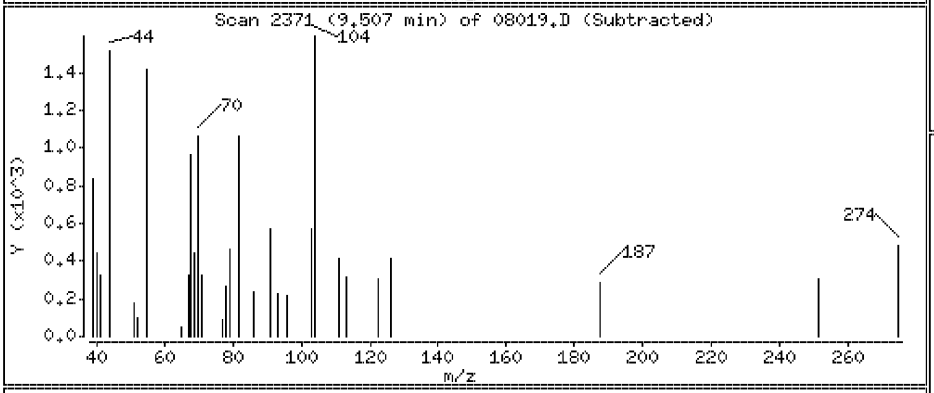
Column phase: J&W DB-5

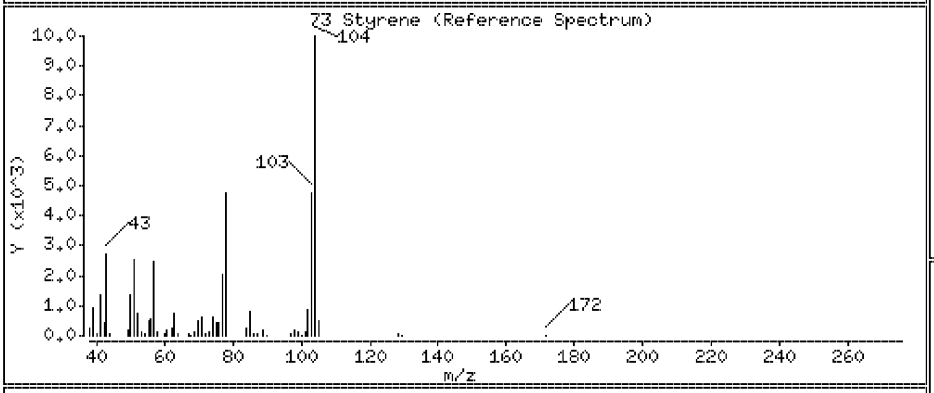
Column diameter: 0.32

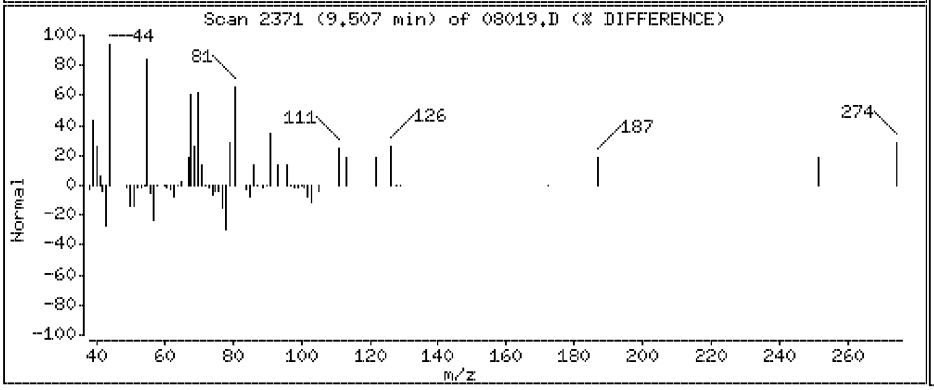
73 Styrene

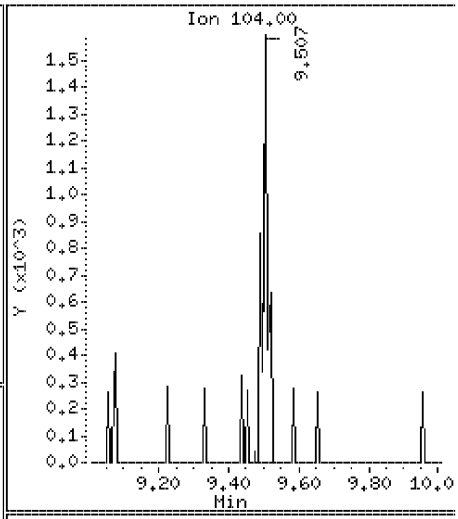
Concentration: 0.244 ppbv

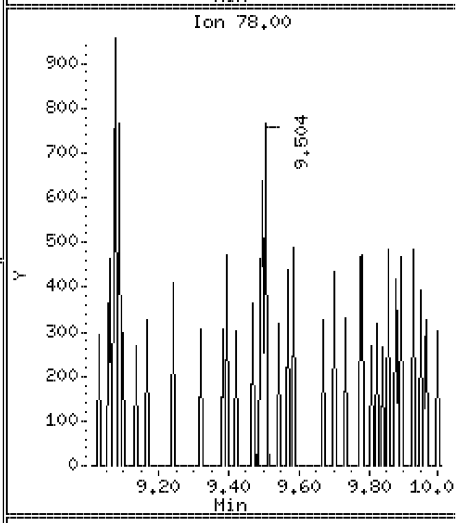


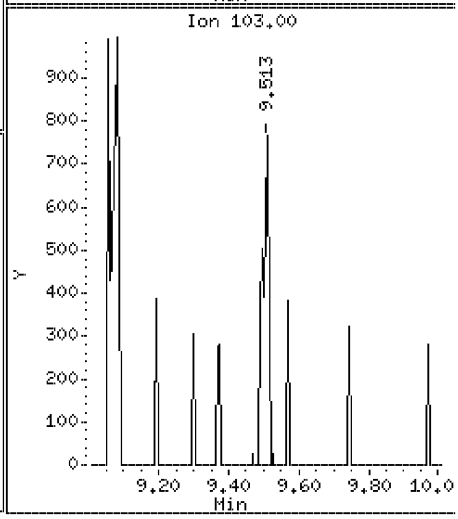












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

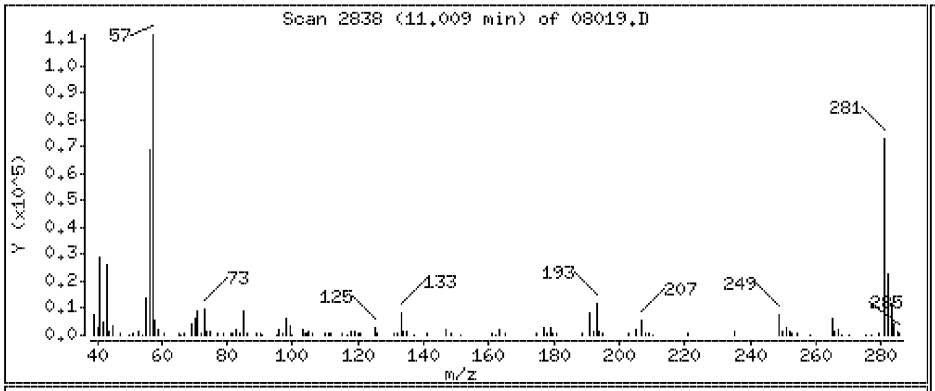
Operator: NCK

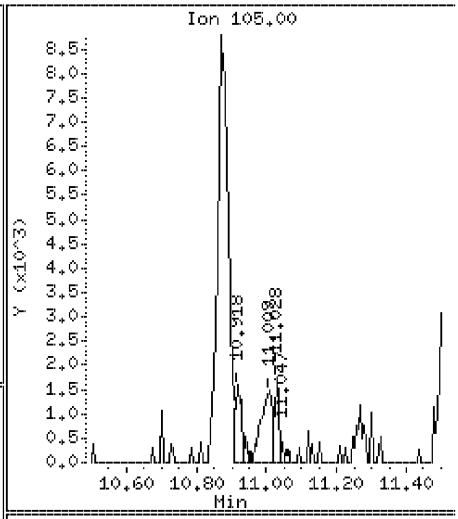
Column phase: J&W DB-5

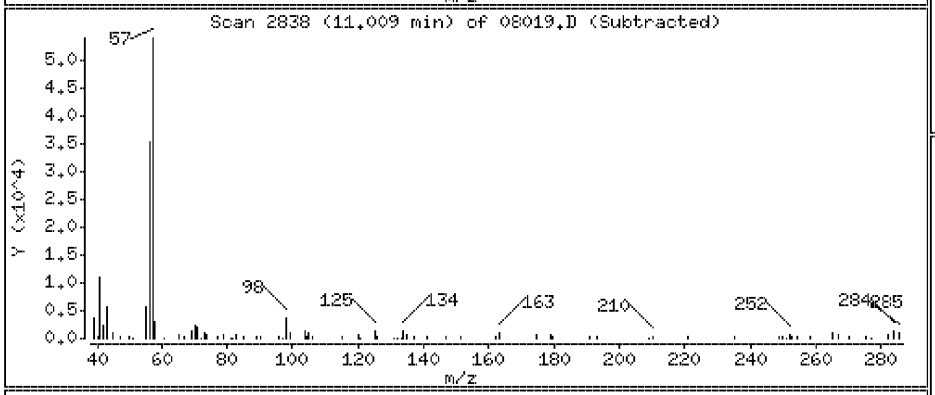
Column diameter: 0.32

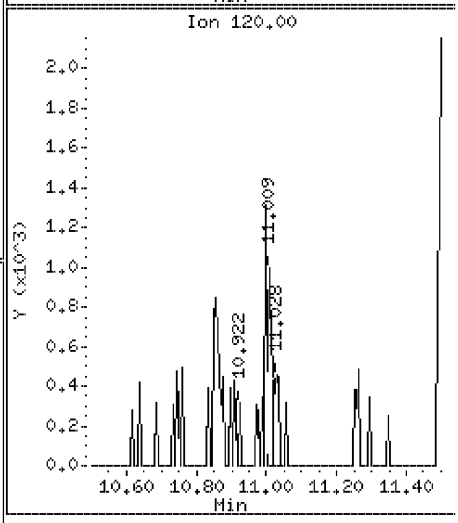
79 1,3,5-Trimethylbenzene

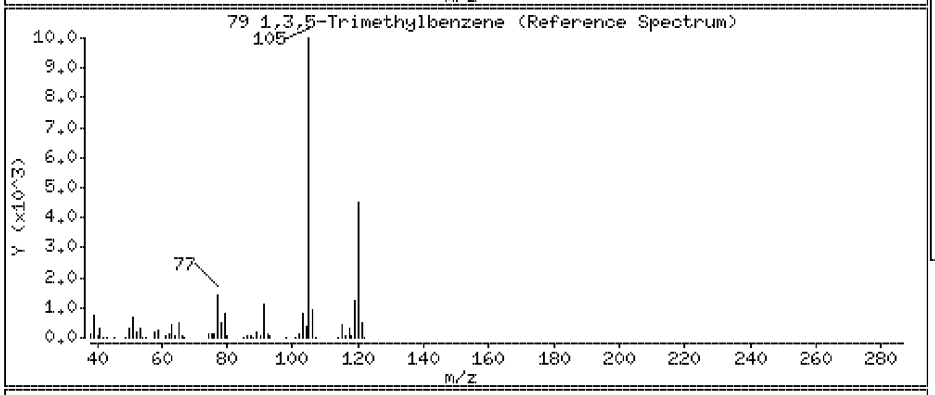
Concentration: 0.268 ppbv

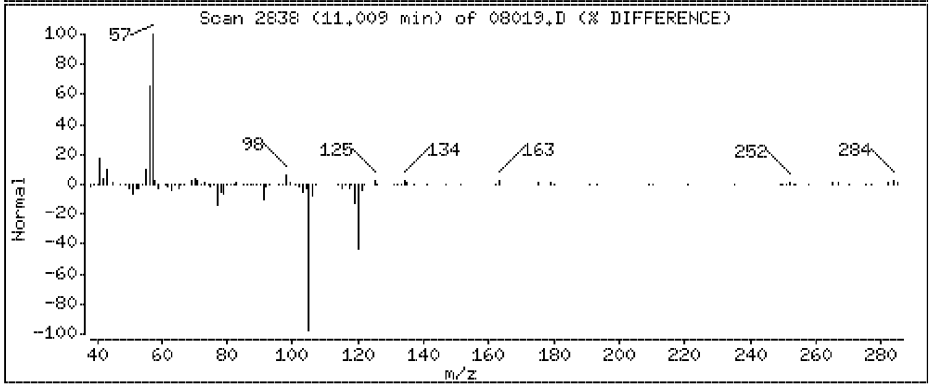












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

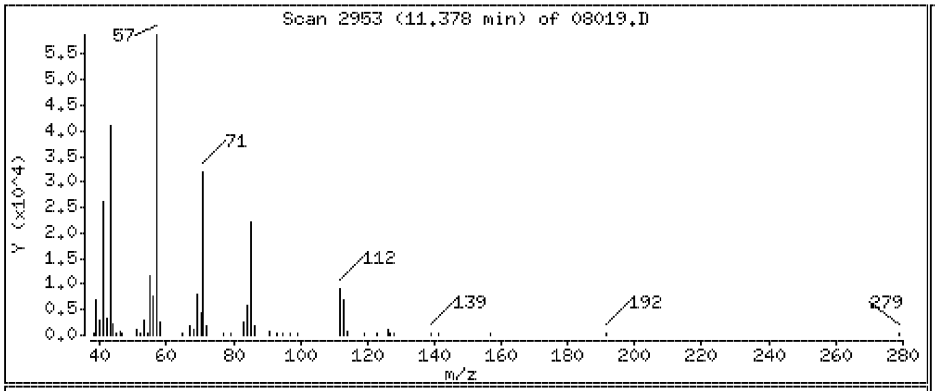
Operator: NCK

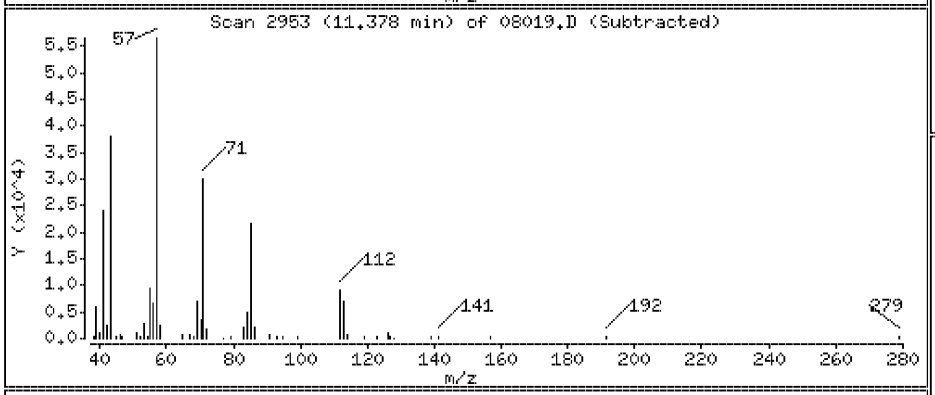
Column phase: J&W DB-5

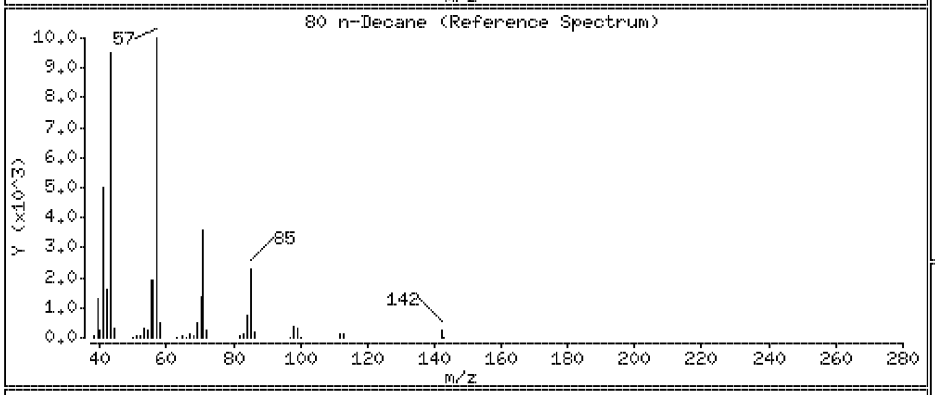
Column diameter: 0.32

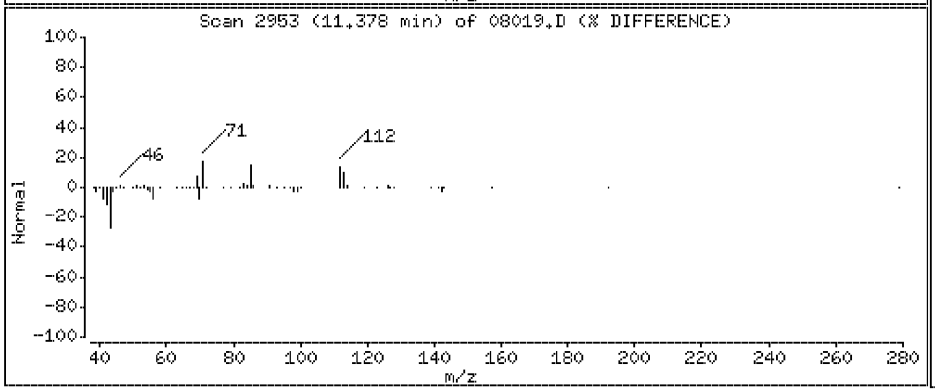
80 n-Decane

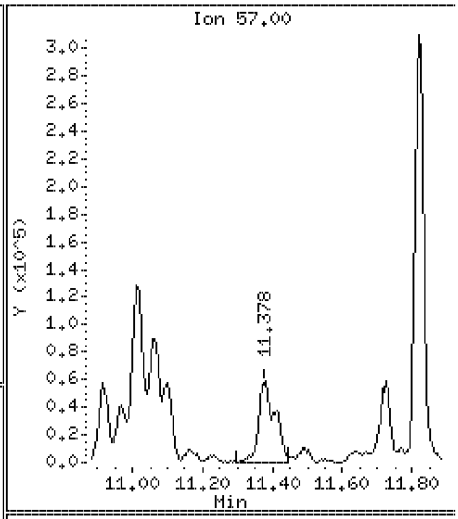
Concentration: 2.45 ppbv

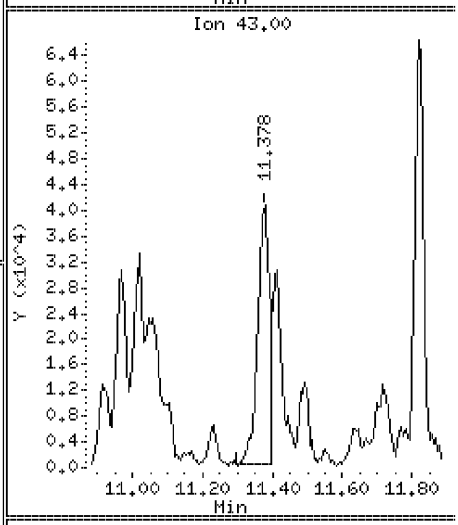


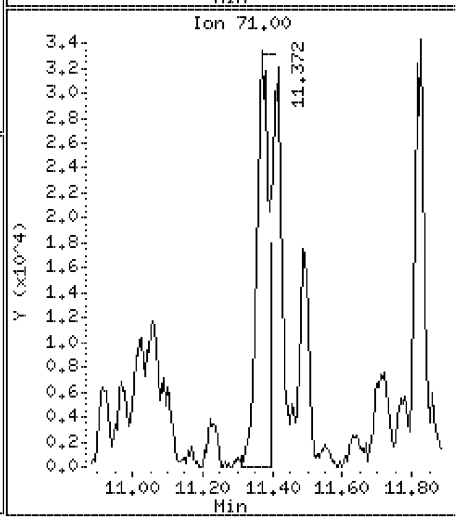












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

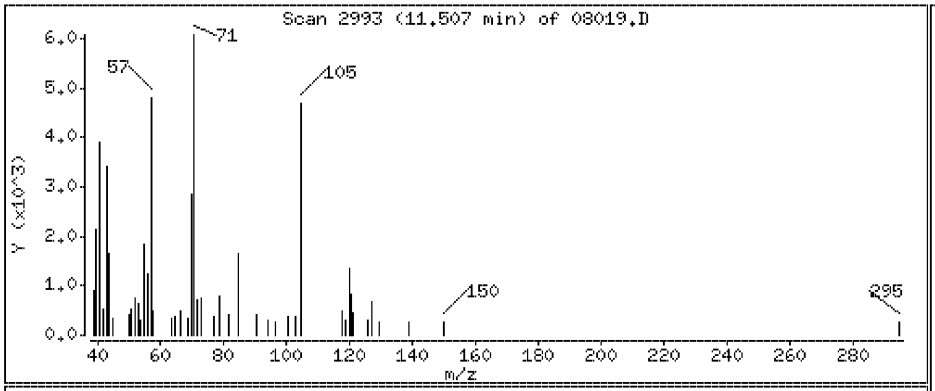
Operator: NCK

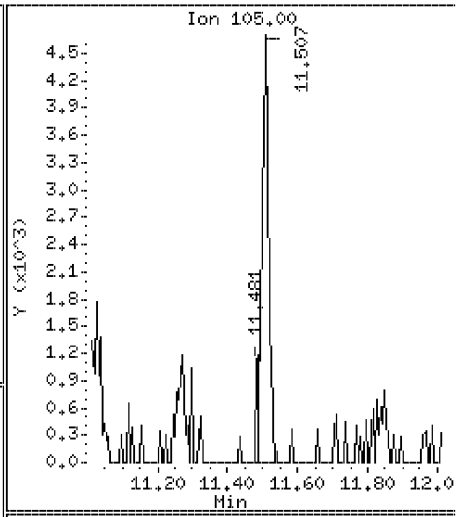
Column phase: J&W DB-5

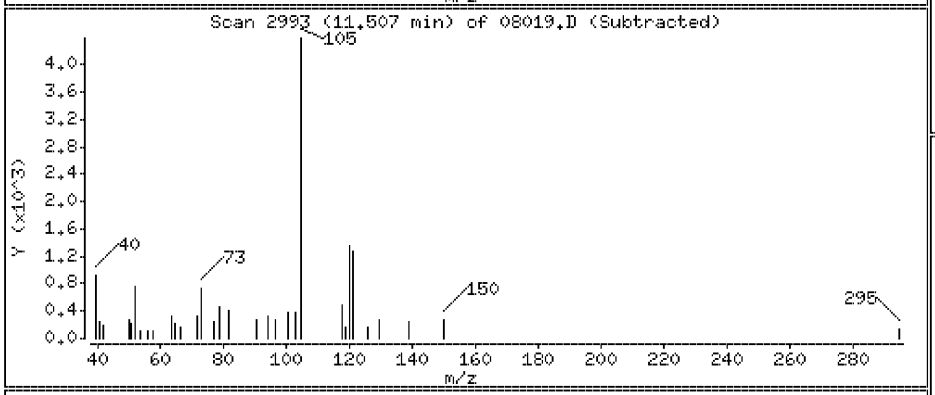
Column diameter: 0.32

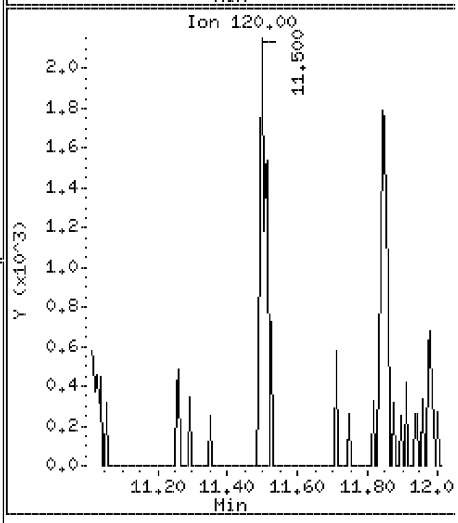
82 1,2,4-Trimethylbenzene

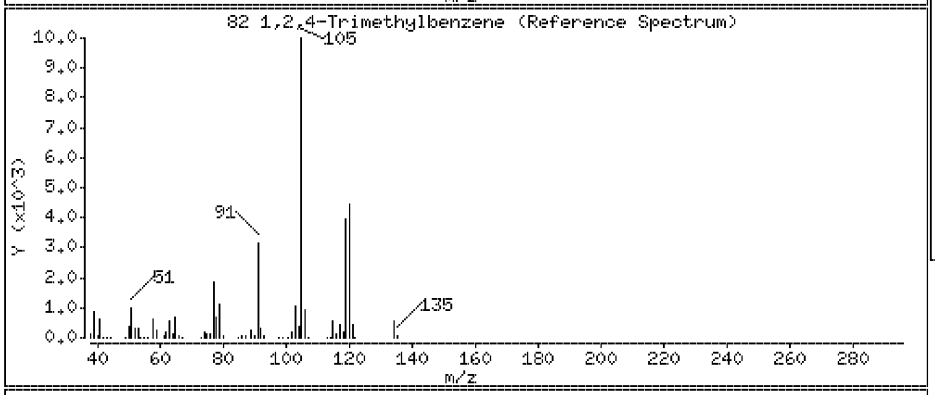
Concentration: 0.273 ppbv

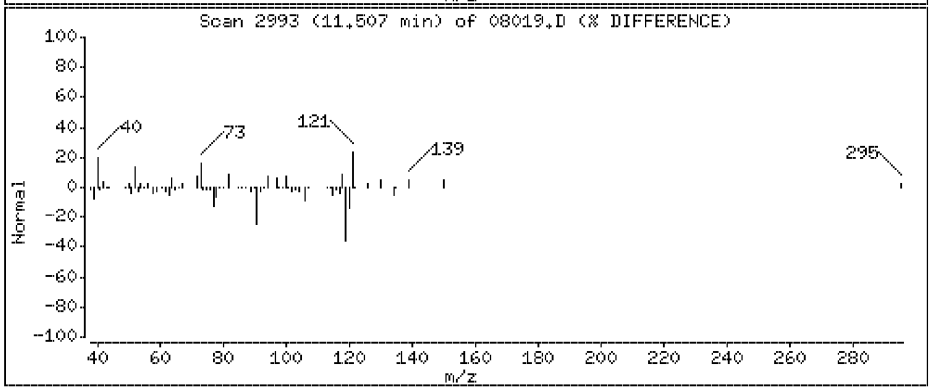












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

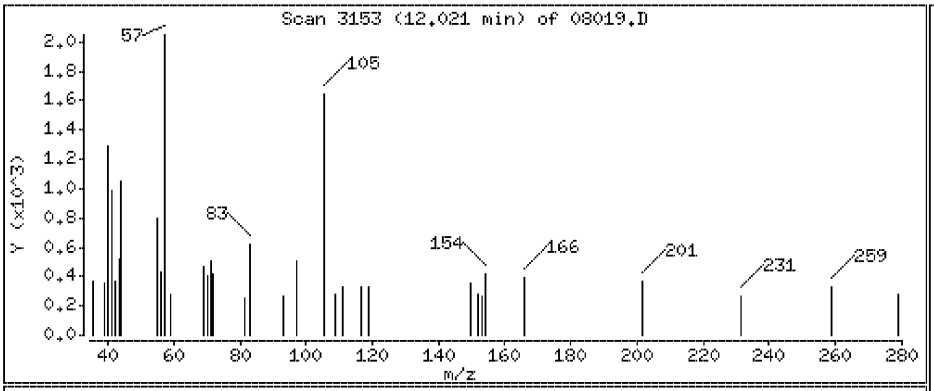
Operator: NCK

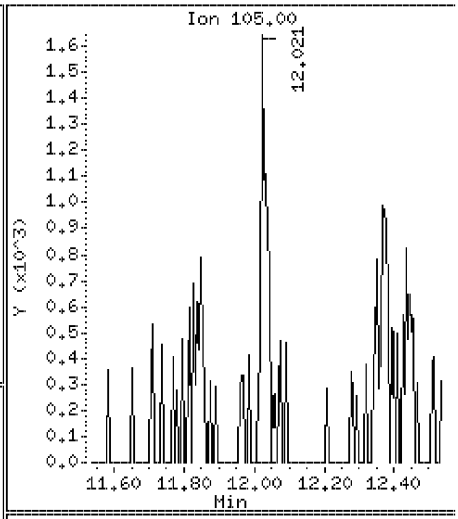
Column phase: J&W DB-5

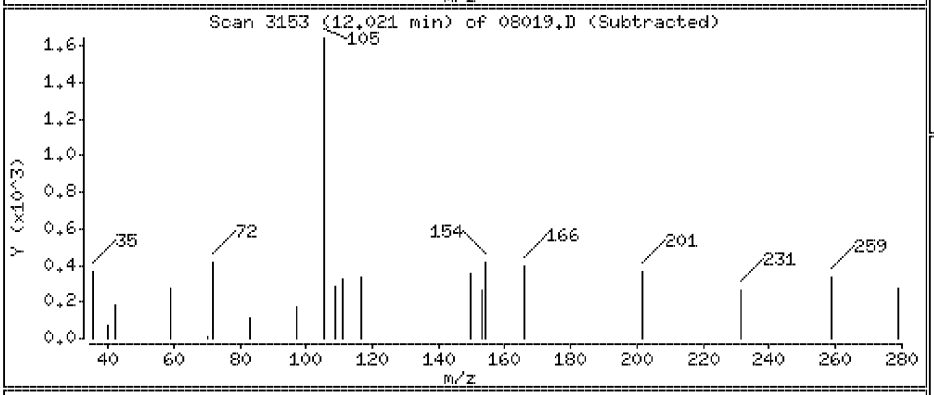
Column diameter: 0.32

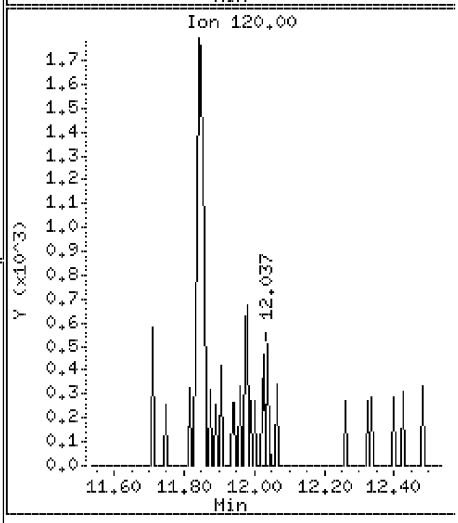
89 1,2,3-Trimethylbenzene

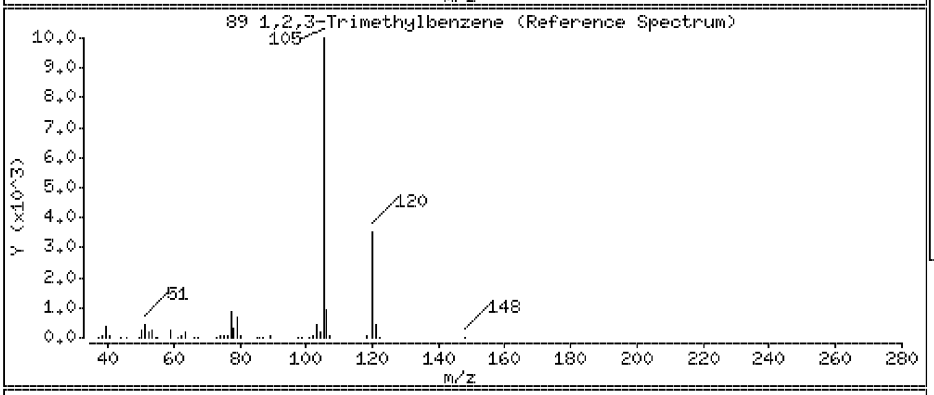
Concentration: 0.273 ppbv

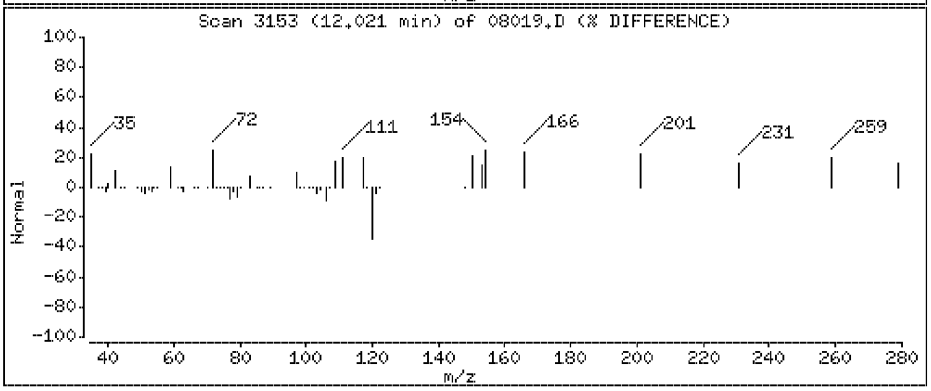












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08019.D

Date : 21-MAR-2017 17:50

Client ID:

Instrument: 10airB.i

Sample Info:

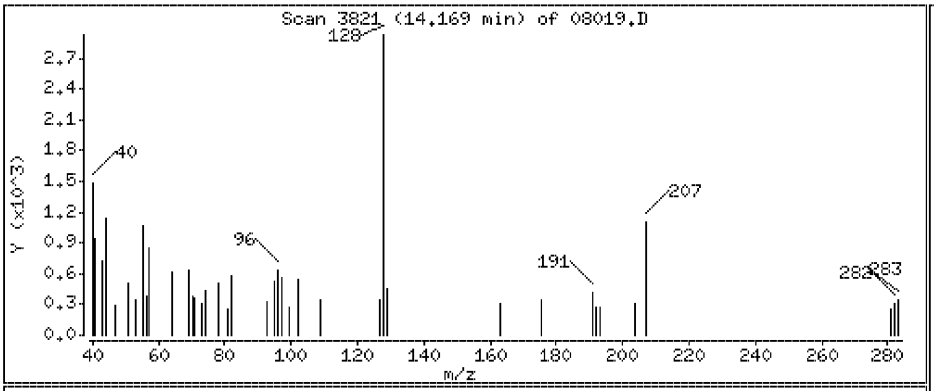
Operator: NCK

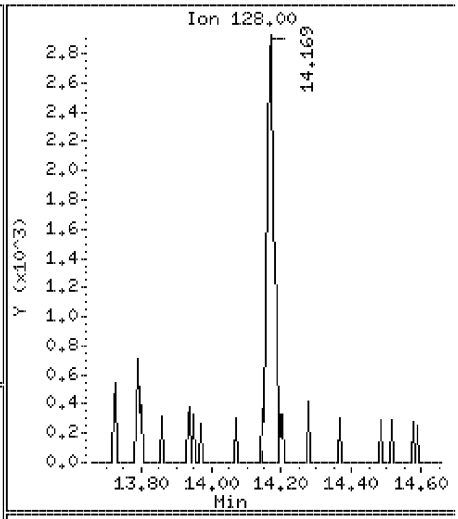
Column phase: J&W DB-5

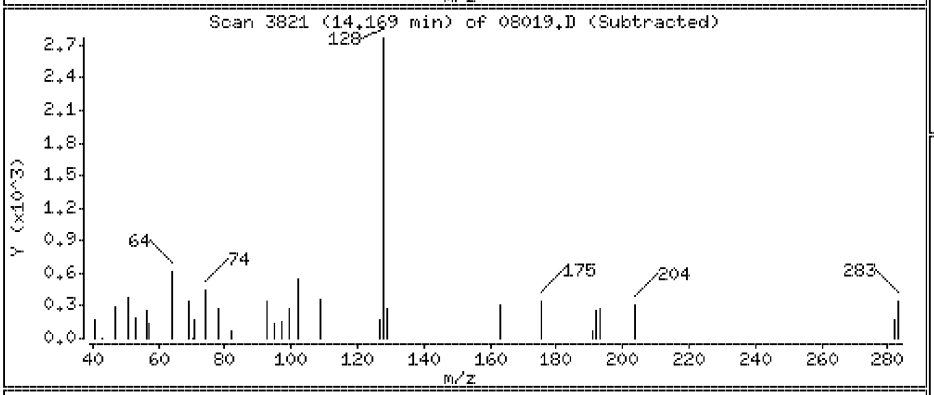
Column diameter: 0.32

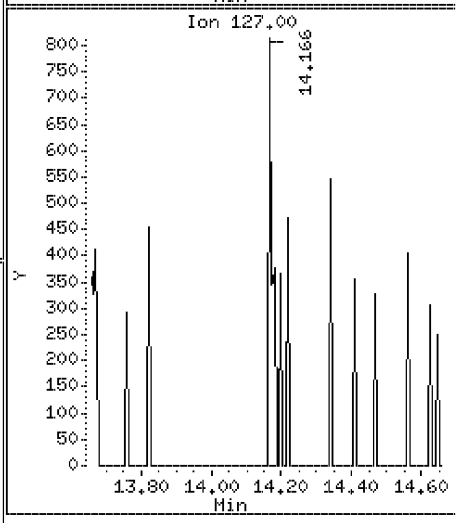
94 Naphthalene

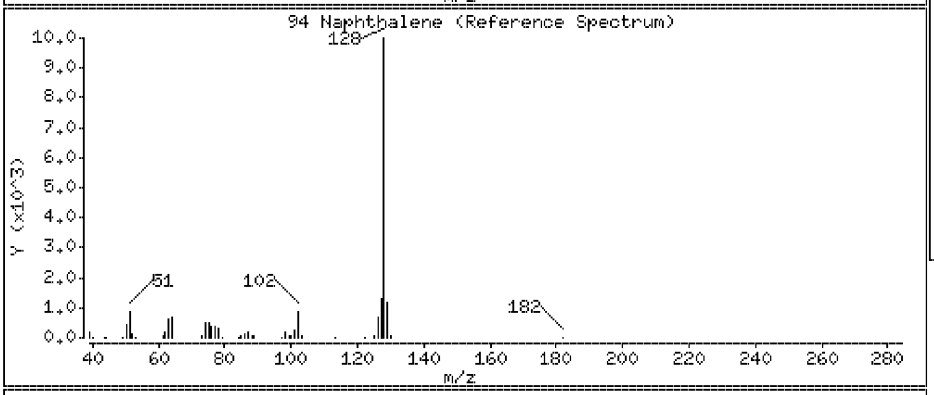
Concentration: 0.797 ppbv

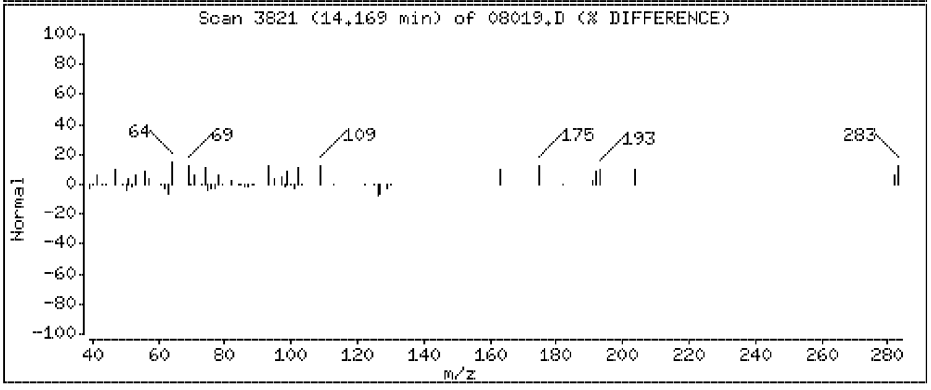






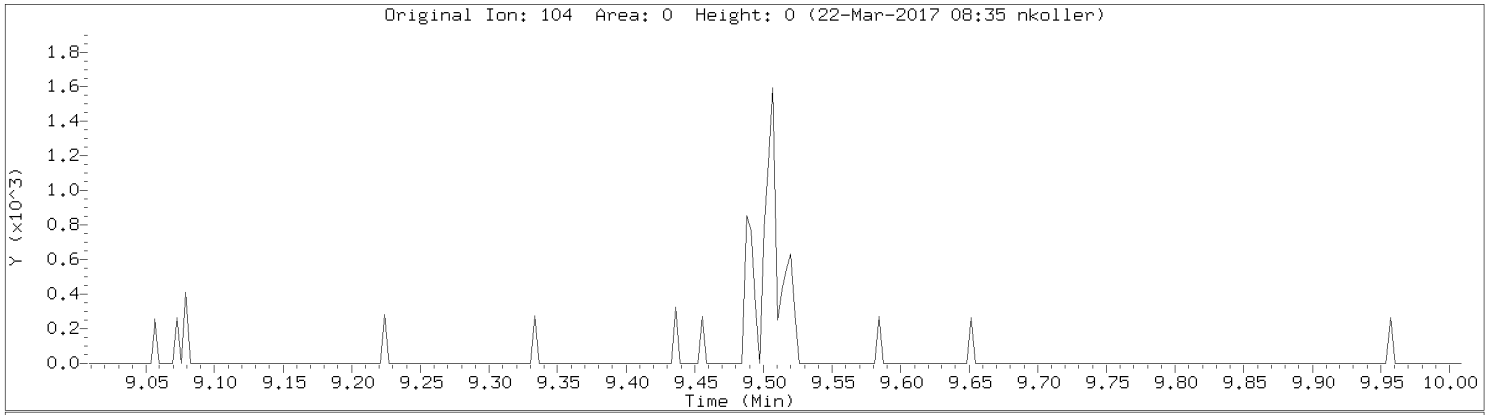


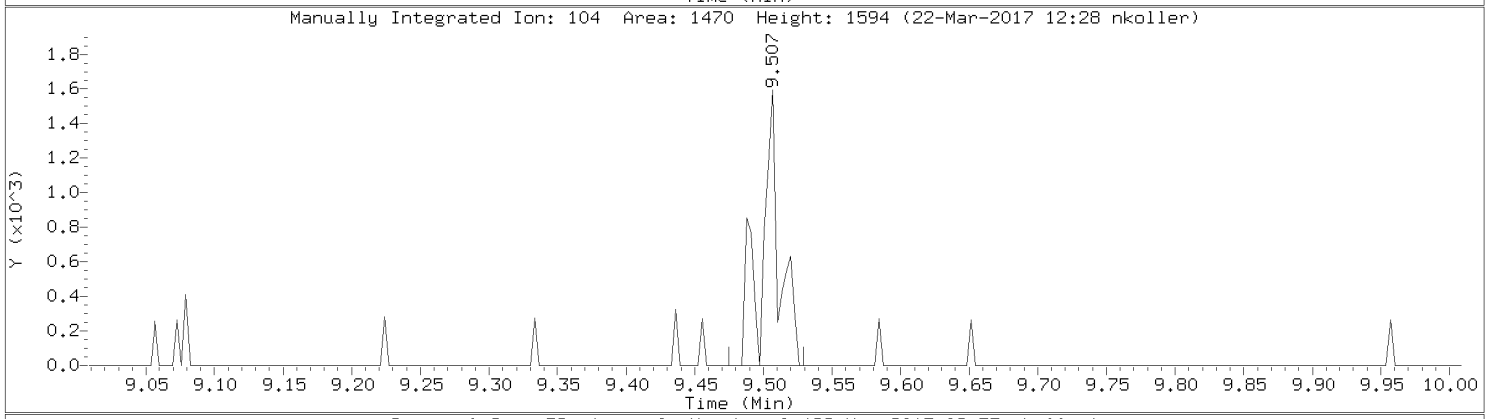


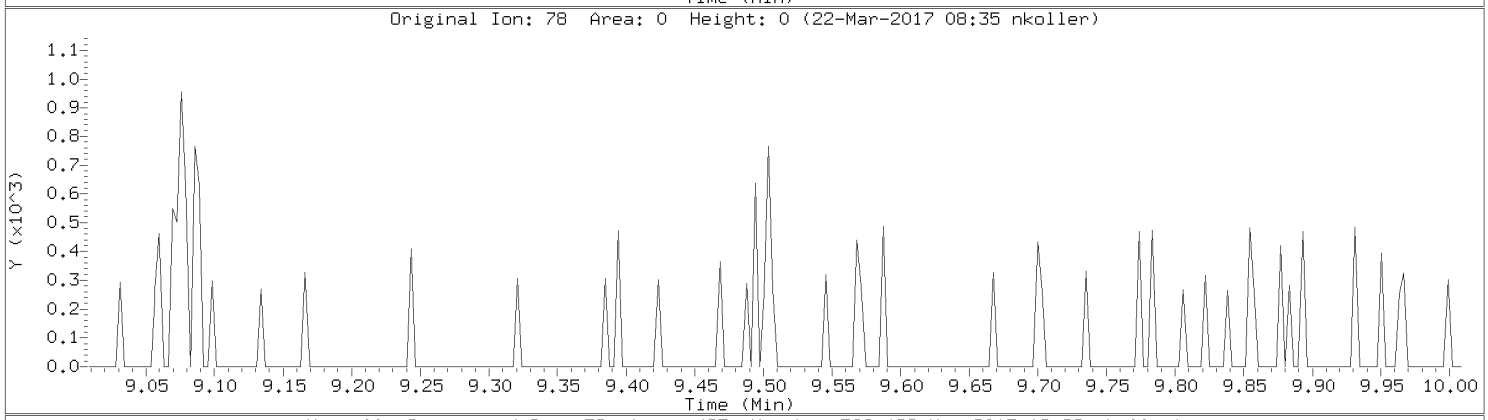


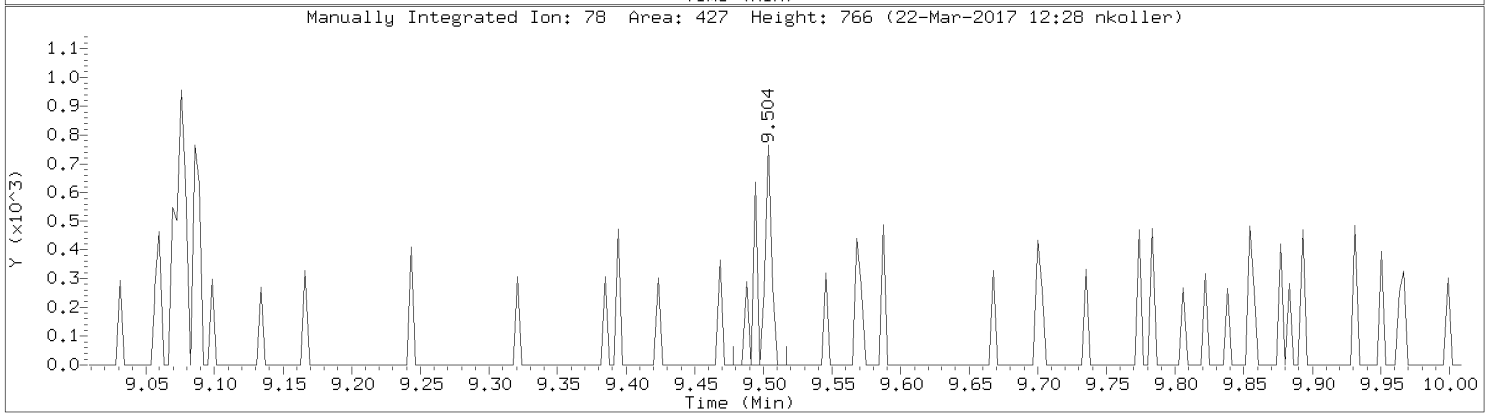
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08019.D
Injection Date: 21-MAR-2017 17:50
Instrument: 10airB.i
Lab Sample ID: 10381035009

Compound: Styrene
CAS Number: 100-42-5

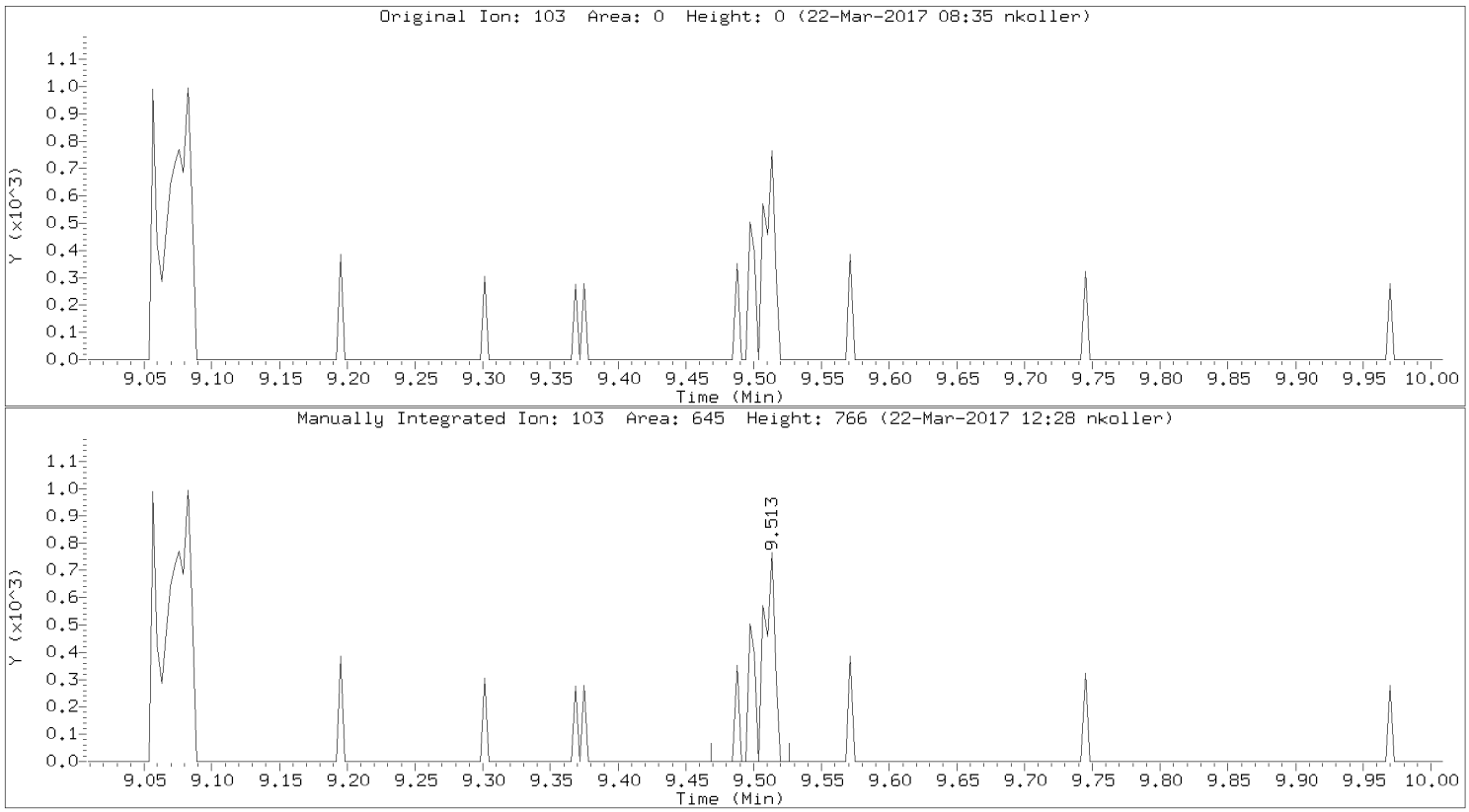






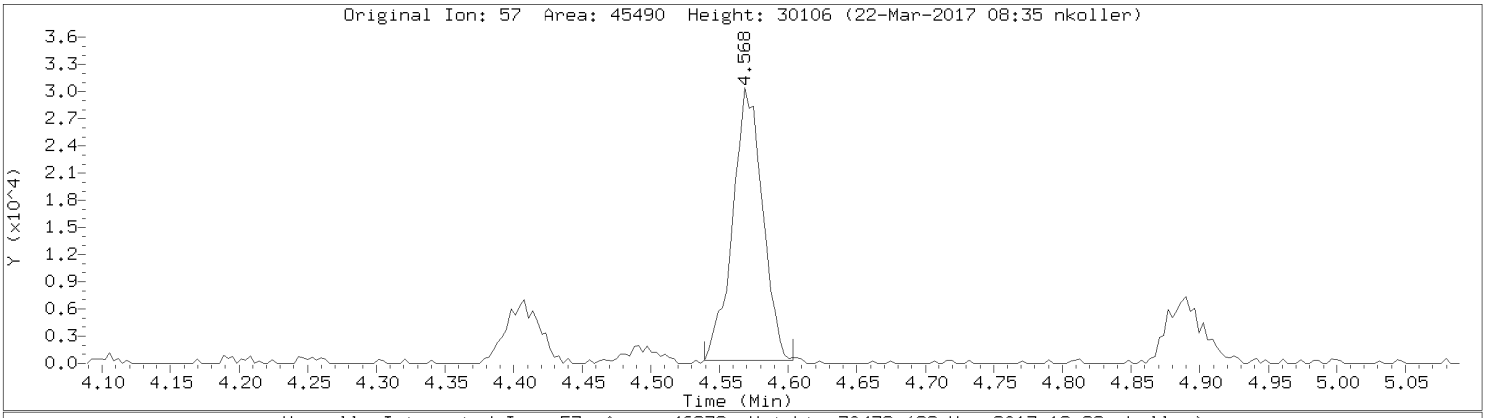


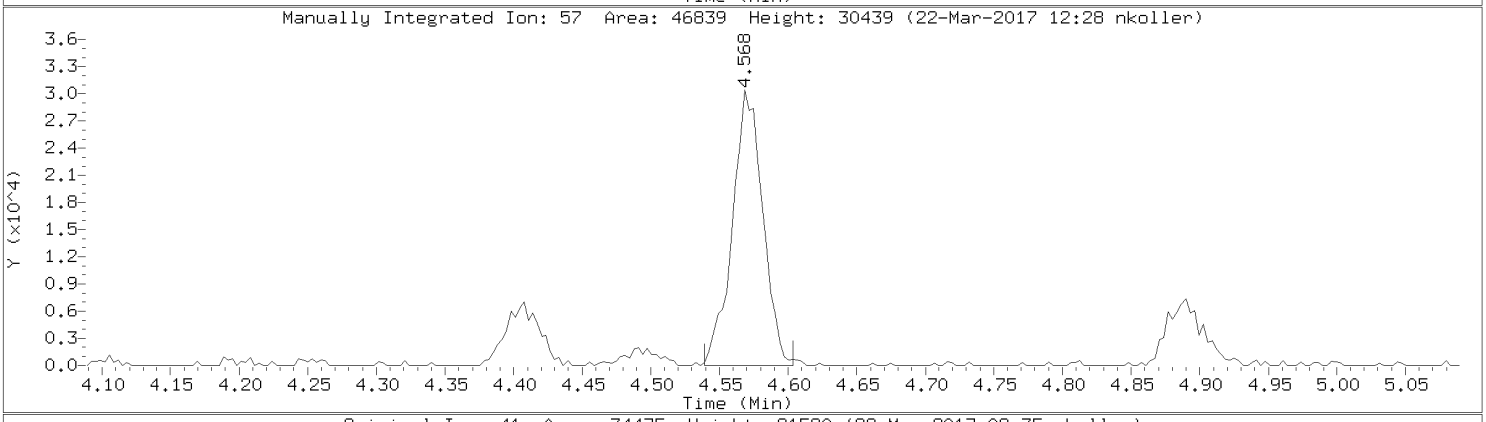
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08019.D
Injection Date: 21-MAR-2017 17:50
Instrument: 10airB.i
Lab Sample ID: 10381035009

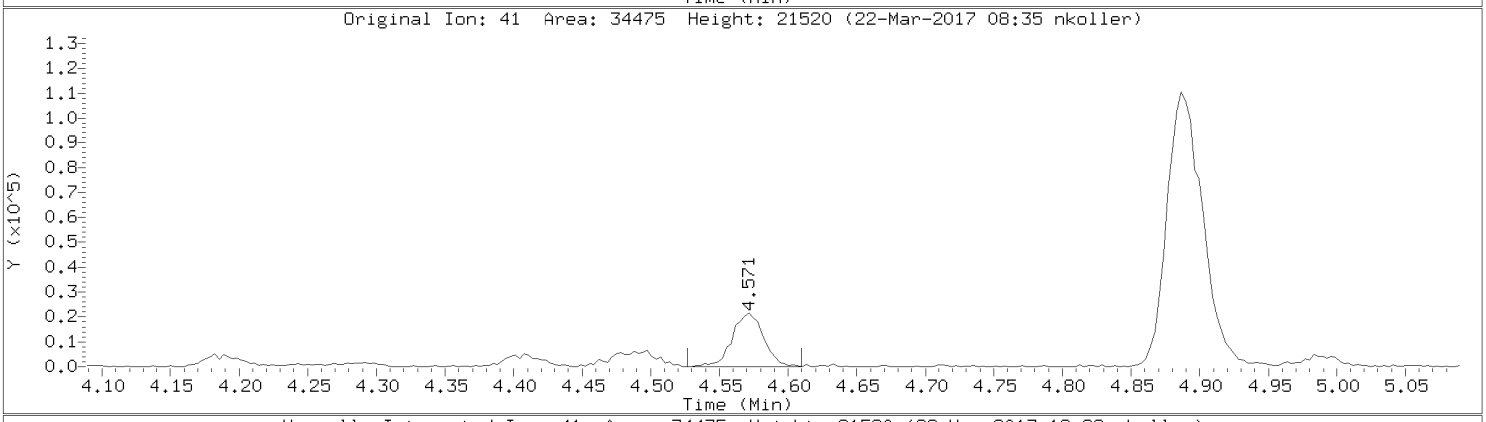


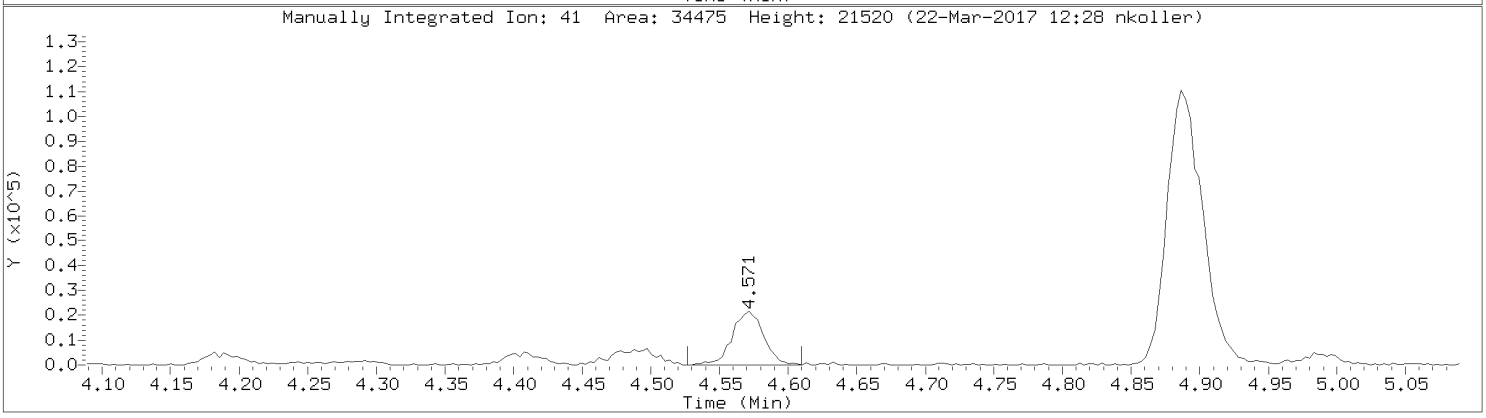
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08019.D
Injection Date: 21-MAR-2017 17:50
Instrument: 10airB.i
Lab Sample ID: 10381035009

Compound: n-Hexane
CAS Number: 110-54-3

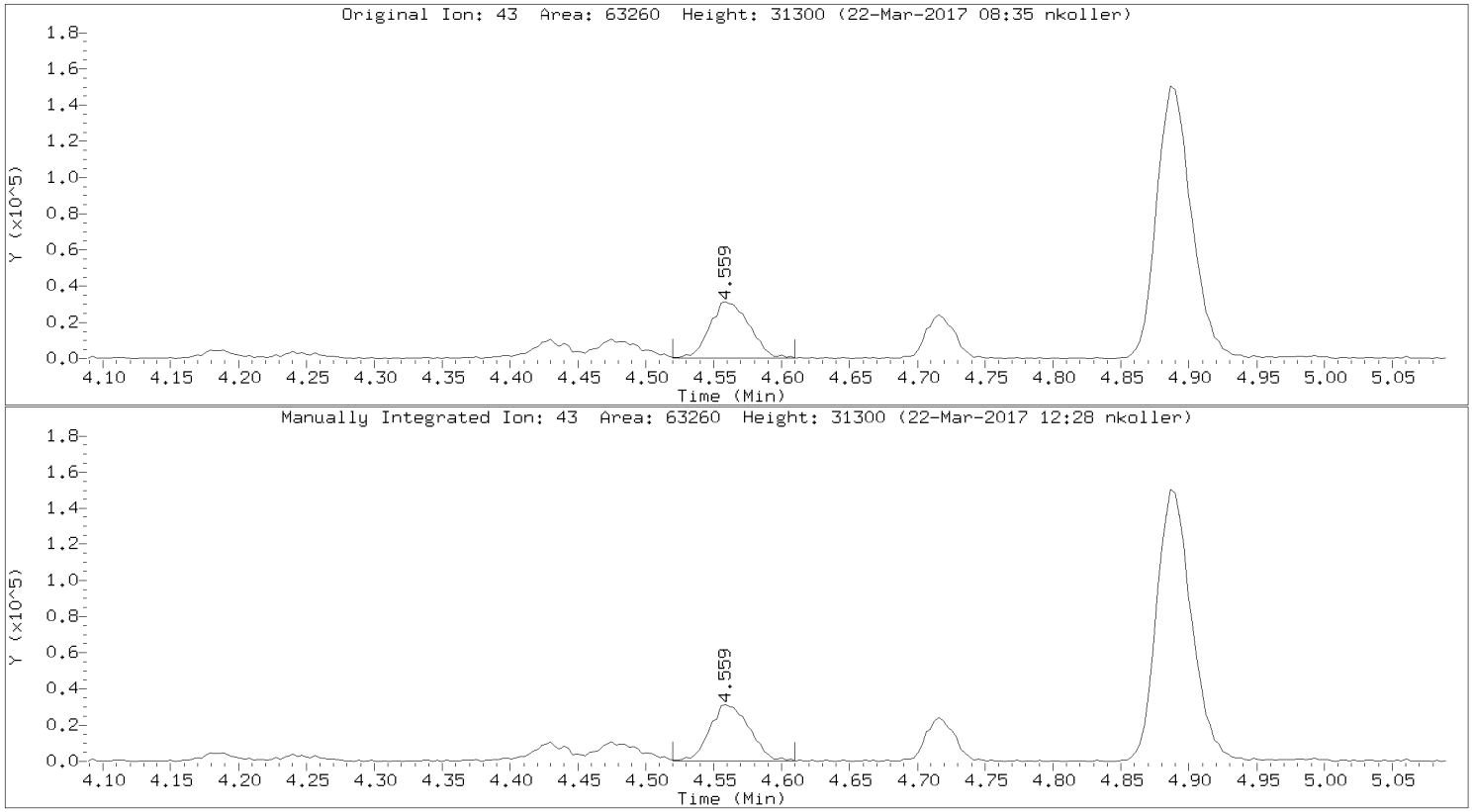






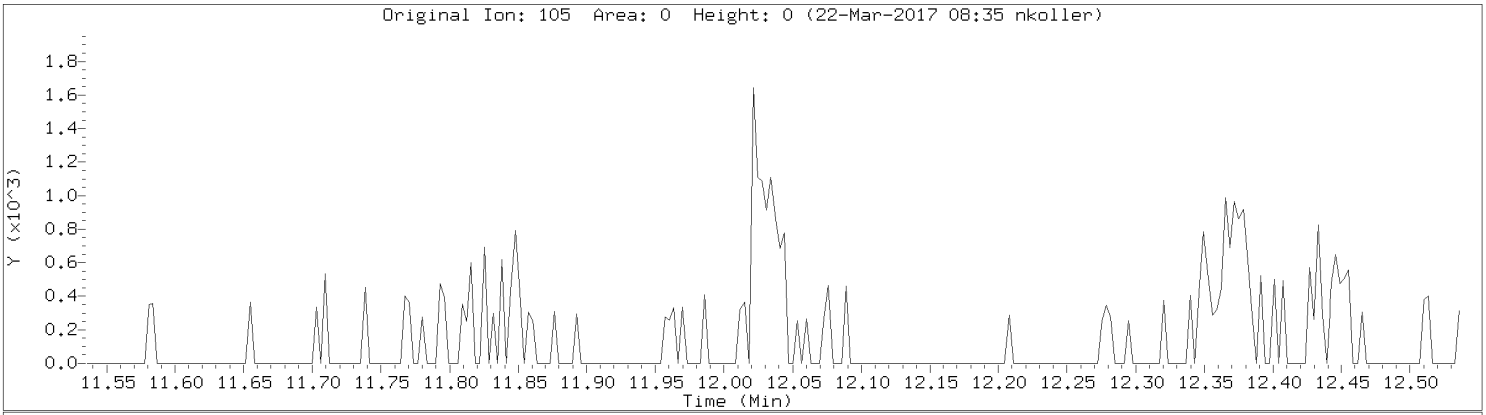


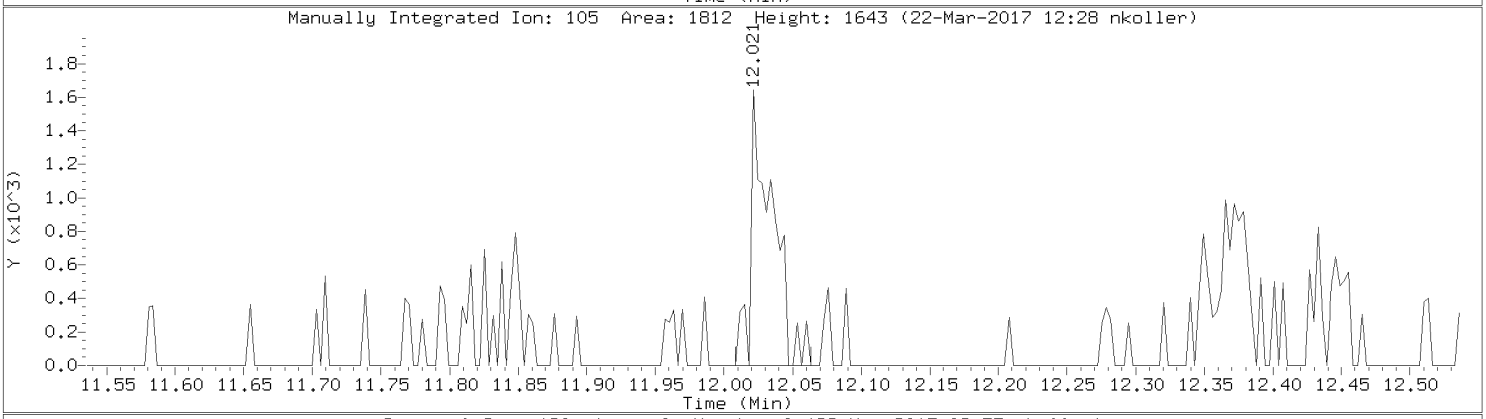
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08019.D
Injection Date: 21-MAR-2017 17:50
Instrument: 10airB.i
Lab Sample ID: 10381035009

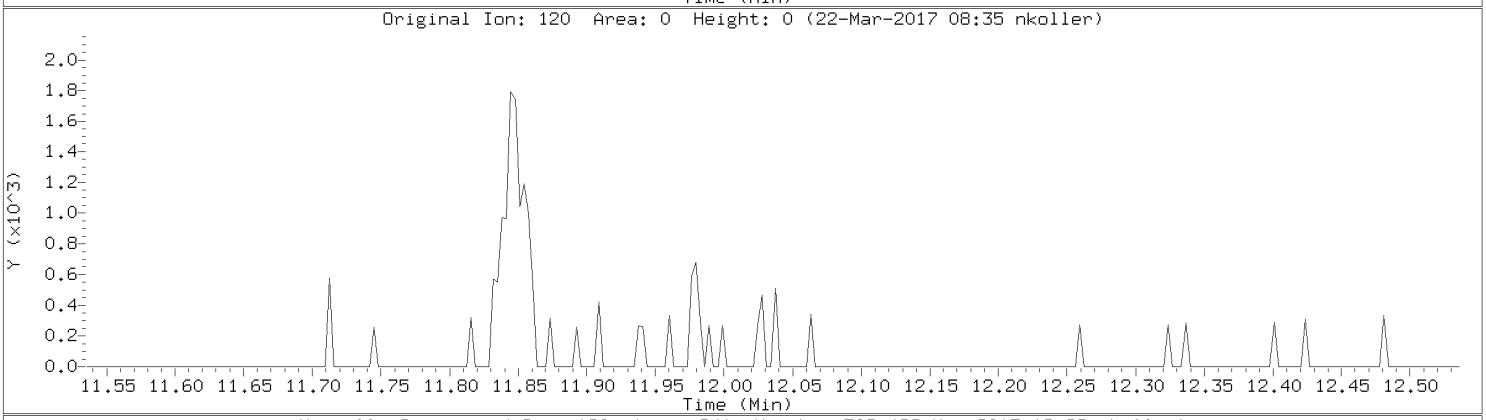


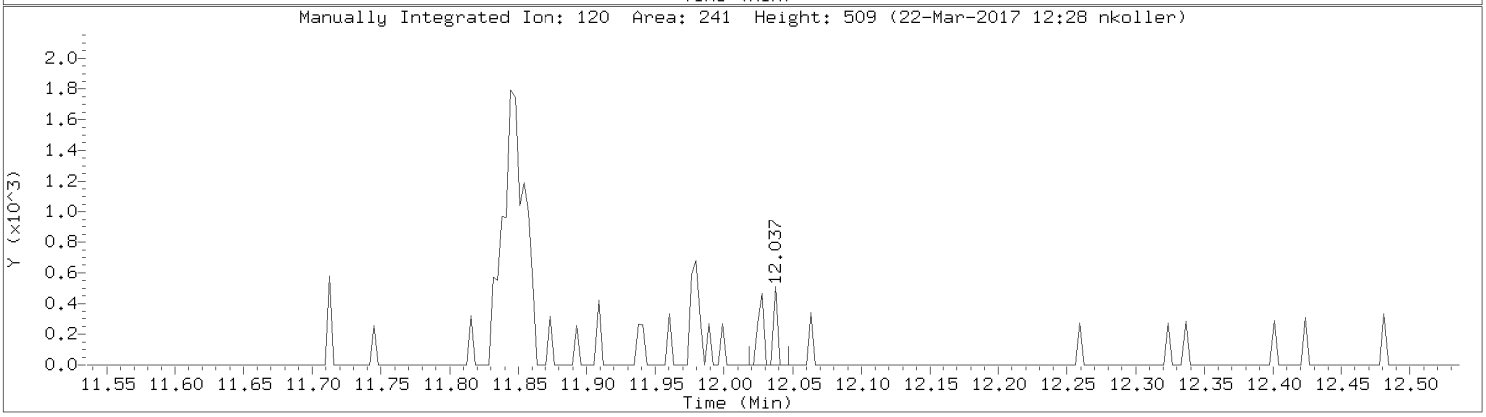
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08019.D
Injection Date: 21-MAR-2017 17:50
Instrument: 10airB.i
Lab Sample ID: 10381035009

Compound: 1,2,3-Trimethylbenzene
CAS Number: 526-73-8









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_5_20170302 **Lab ID: 10381035009** Collected: 03/02/17 11:22 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/21/17 17:50	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.34	1.75		03/21/17 17:50	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 17:50	79-34-5	
Tetrachloroethene	**8.0**	ug/m3	1.2	0.49	1.75		03/21/17 17:50	127-18-4	
Toluene	**2.4**	ug/m3	1.3	0.27	1.75		03/21/17 17:50	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 17:50	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/21/17 17:50	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 17:50	79-00-5	
Trichloroethene	**1.9**	ug/m3	0.96	0.48	1.75		03/21/17 17:50	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.0	0.23	1.75		03/21/17 17:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.90J**	ug/m3	2.8	0.53	1.75		03/21/17 17:50	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.22	1.75		03/21/17 17:50	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/21/17 17:50	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 17:50	75-01-4	
m&p-Xylene	**1.7J**	ug/m3	3.1	1.4	1.75		03/21/17 17:50	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 17:50	95-47-6	

Sample: VP-4_10_20170302 **Lab ID: 10381035010** Collected: 03/02/17 11:28 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**24.1**	ug/m3	4.2	1.5	1.75		03/21/17 18:21	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 18:21	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 18:21	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 18:21	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 18:21	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 18:21	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 18:21	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 18:21	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 18:21	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 18:21	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 18:21	108-90-7	
Chlorodifluoromethane	**1.5**	ug/m3	1.3	0.48	1.75		03/21/17 18:21	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 18:21	75-00-3	
Chloroform	**1.6**	ug/m3	0.87	0.33	1.75		03/21/17 18:21	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 18:21	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 18:21	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 18:21	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 18:21	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 18:21	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 18:21	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 18:21	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 18:21	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_10_20170302 **Lab ID: 10381035010** Collected: 03/02/17 11:28 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 18:21	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 18:21	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 18:21	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 18:21	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 18:21	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/21/17 18:21	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 18:21	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 18:21	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 18:21	10061-01-5	
trans-1,3-Dichloropropene	**0.83J**	ug/m3	1.6	0.46	1.75		03/21/17 18:21	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 18:21	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 18:21	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 18:21	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 18:21	100-41-4	
4-Ethyltoluene	**1.7J**	ug/m3	1.8	0.33	1.75		03/21/17 18:21	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 18:21	87-68-3	
n-Hexane	**2.6**	ug/m3	1.3	0.62	1.75		03/21/17 18:21	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 18:21	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 18:21	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 18:21	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 18:21	108-87-2	
Methylene Chloride	**20.1**	ug/m3	6.2	0.95	1.75		03/21/17 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 18:21	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 18:21	1634-04-4	
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/21/17 18:21	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/21/17 18:21	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 18:21	79-34-5	
Tetrachloroethene	**5.6**	ug/m3	1.2	0.49	1.75		03/21/17 18:21	127-18-4	
Toluene	**<0.27**	ug/m3	1.3	0.27	1.75		03/21/17 18:21	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 18:21	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/21/17 18:21	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 18:21	79-00-5	
Trichloroethene	**5.4**	ug/m3	0.96	0.48	1.75		03/21/17 18:21	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.0	0.23	1.75		03/21/17 18:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.4J**	ug/m3	2.8	0.53	1.75		03/21/17 18:21	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.22	1.75		03/21/17 18:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/21/17 18:21	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 18:21	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/21/17 18:21	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 18:21	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D
Report Date: 22-Mar-2017 12:29

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08020.D
Lab Smp Id: 10381035010
Inj Date : 21-MAR-2017 18:21
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 20
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.038	3.034	(0.542)	4382	0.23349	0.409(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.545	(0.634)	141271	5.90752	10.3	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.665	3.677	(0.654)	17197	0.13305	0.233	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.713	3.722	(0.663)	589641	5.71101	9.99	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.944	3.951	(0.704)	9990	0.10144	0.178	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D
Report Date: 22-Mar-2017 12:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.992	4.005	(0.713)	276079	3.25256	5.69	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.439	4.388	(0.793)	18262	0.11770	0.206	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.488	4.491	(0.801)	2052491	9.37487	9.37	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.581	4.587	(0.818)	45632	0.41662	0.729(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.822	4.841	(0.861)	21943	0.18847	0.330	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	6387675	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.976	5.986	(1.067)	48432	0.56303	0.985	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	7.057	6.983	(1.260)	611	0.10312	0.180(Q)	
$	59 Toluene-d8 (S)	98	7.070	7.076	(1.262)	5642227	9.59211	9.59(H)	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.923)	43762	0.46562	0.815	
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	4143374	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D
Report Date: 22-Mar-2017 12:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.886	10.915	(1.260)	9380	0.19098	0.334(QM)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.507	11.510	(1.331)	4262	0.15013	0.263(QM)	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	1878773	9.39639	9.40	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	3504	0.45298	0.793	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D
Report Date: 22-Mar-2017 12:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08020.D
Lab Smp Id: 10381035010
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

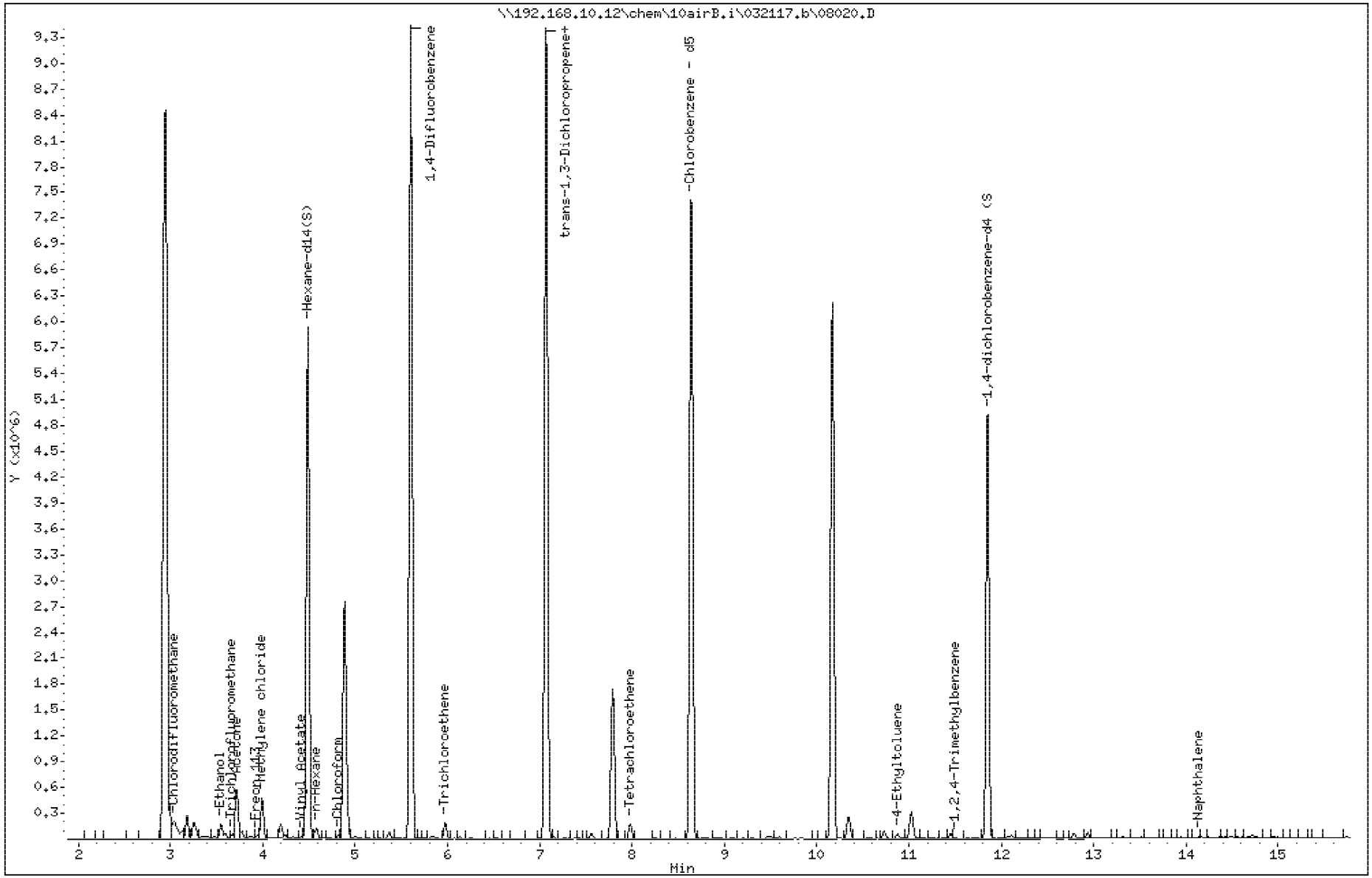
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6387675	-16.40
67 Chlorobenzene - d	5205948	3123569	7288327	4143374	-20.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D
Date : 21-MAR-2017 18:21
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

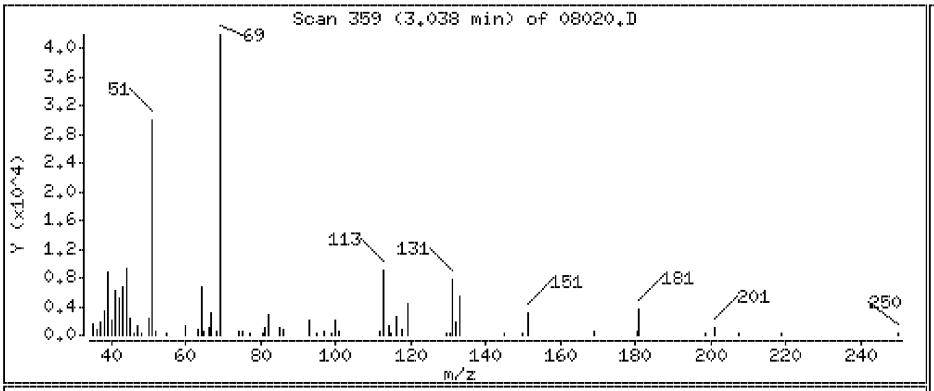
Operator: NCK

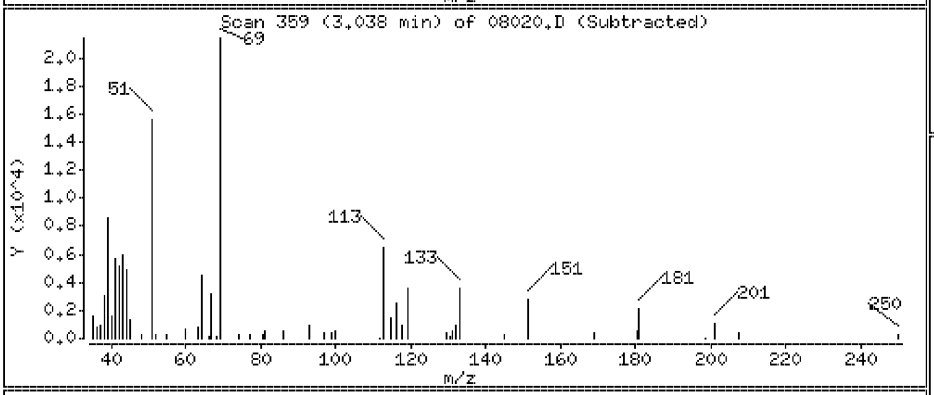
Column phase: J&W DB-5

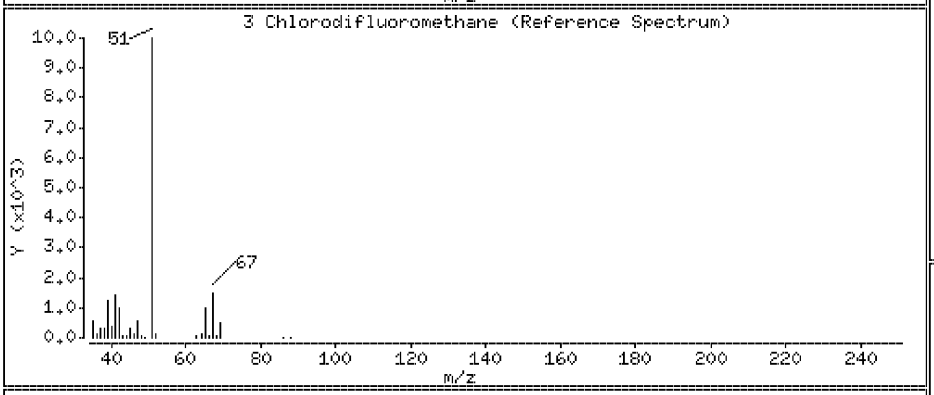
Column diameter: 0.32

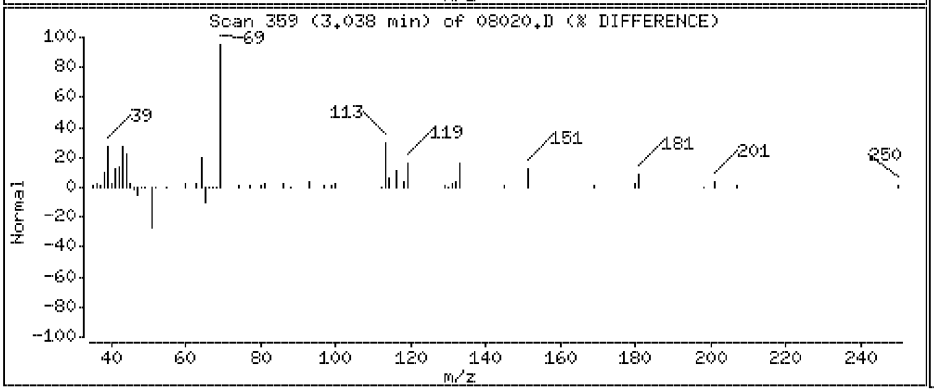
3 Chlorodifluoromethane

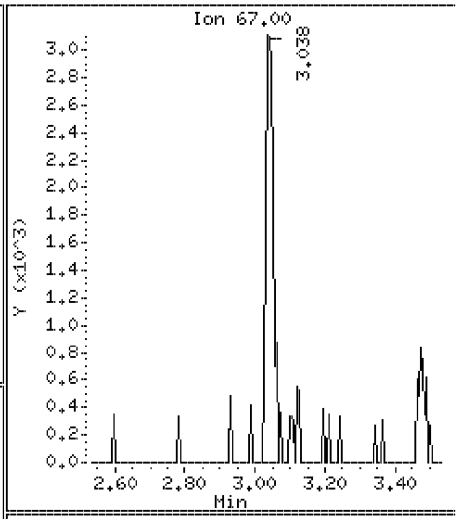
Concentration: 0.409 ppbv

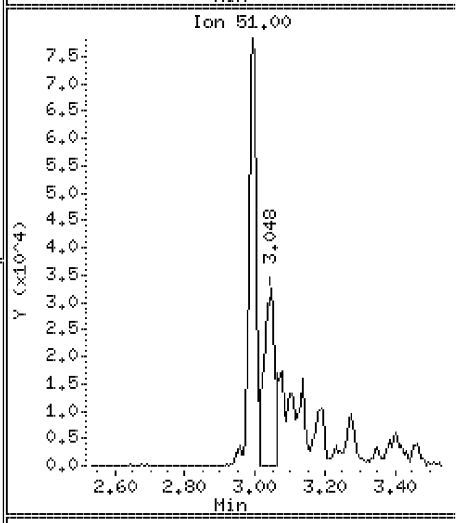


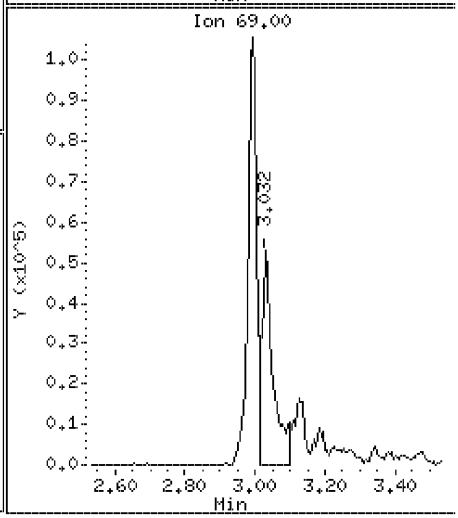












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

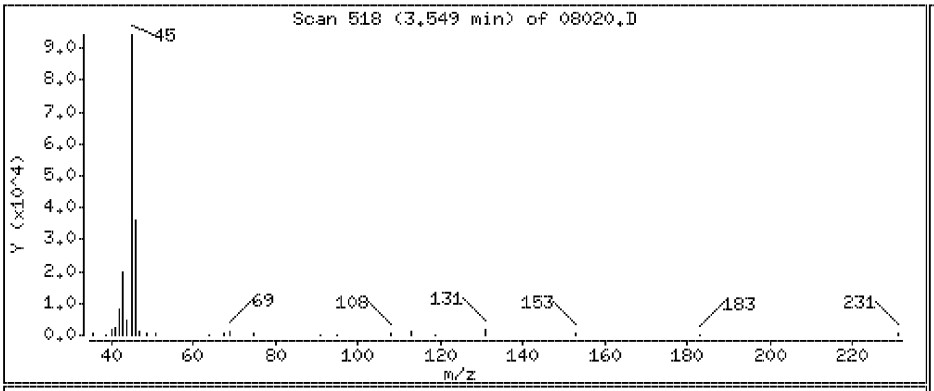
Operator: NCK

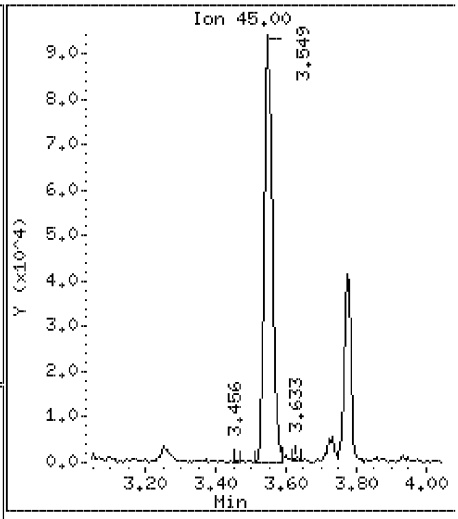
Column phase: J&W DB-5

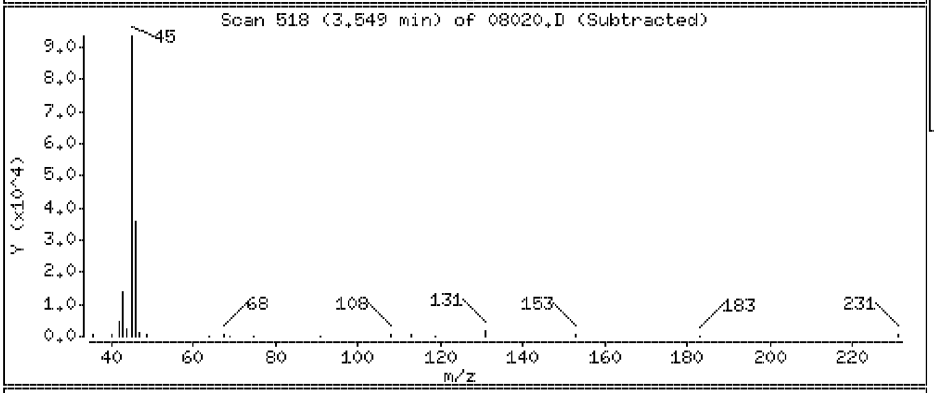
Column diameter: 0.32

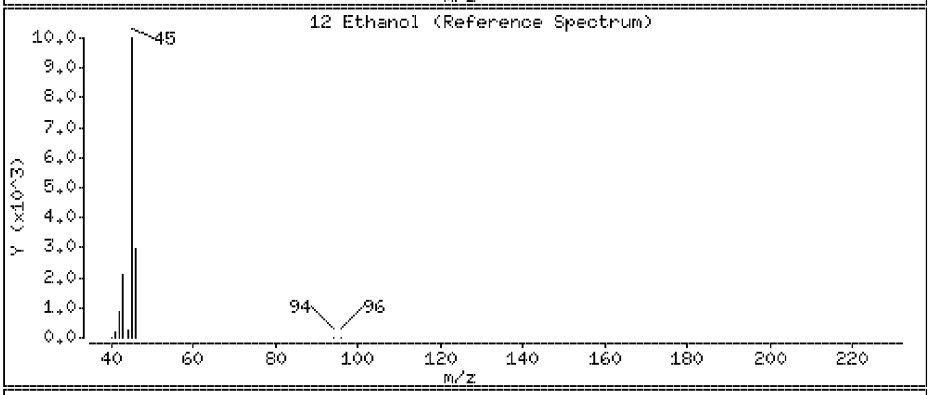
12 Ethanol

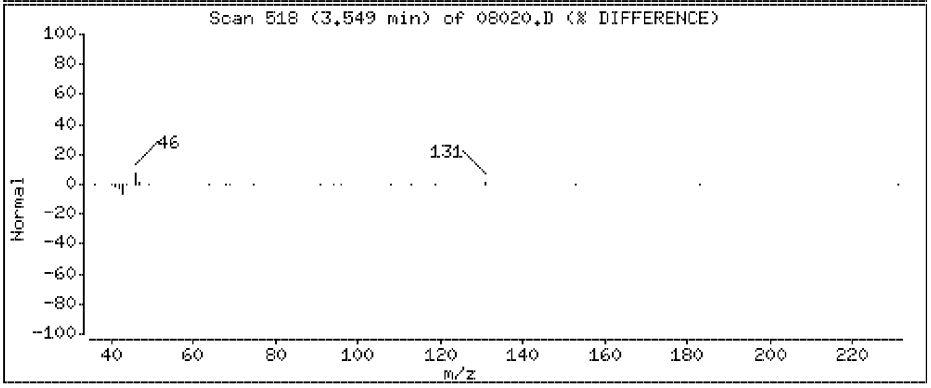
Concentration: 10.3 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

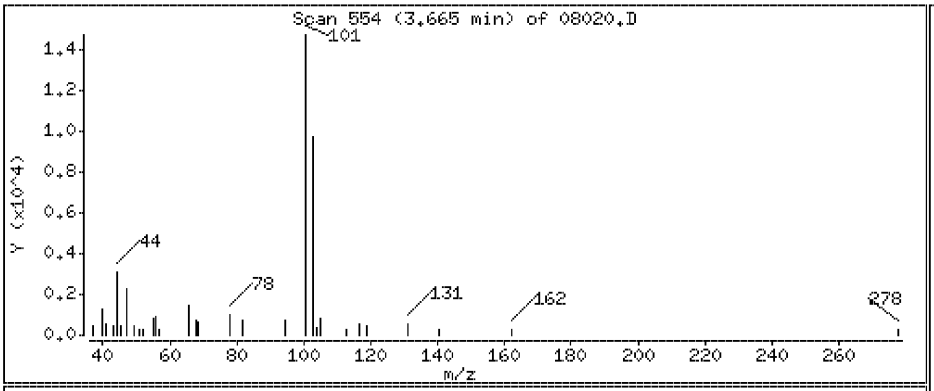
Operator: NCK

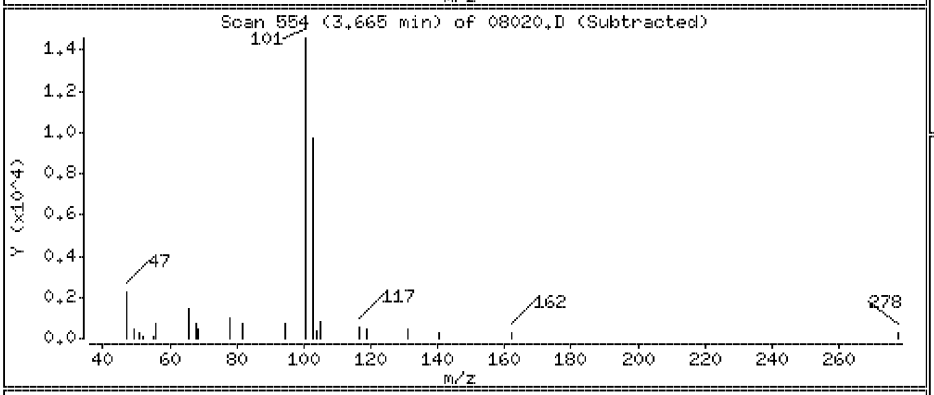
Column phase: J&W DB-5

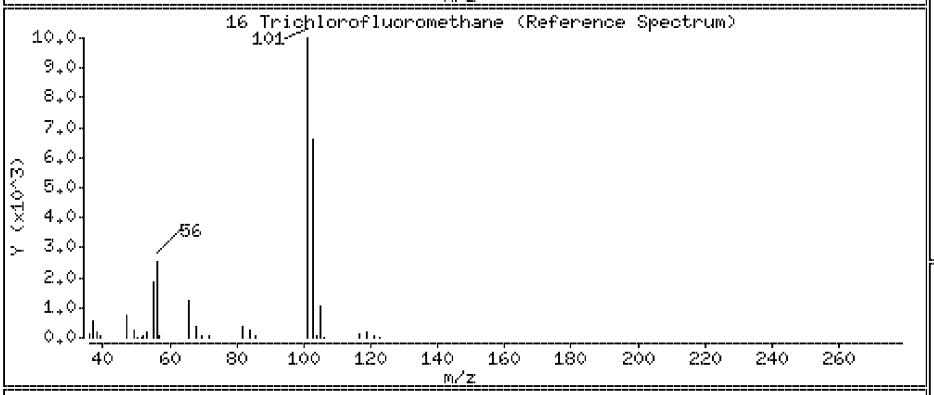
Column diameter: 0.32

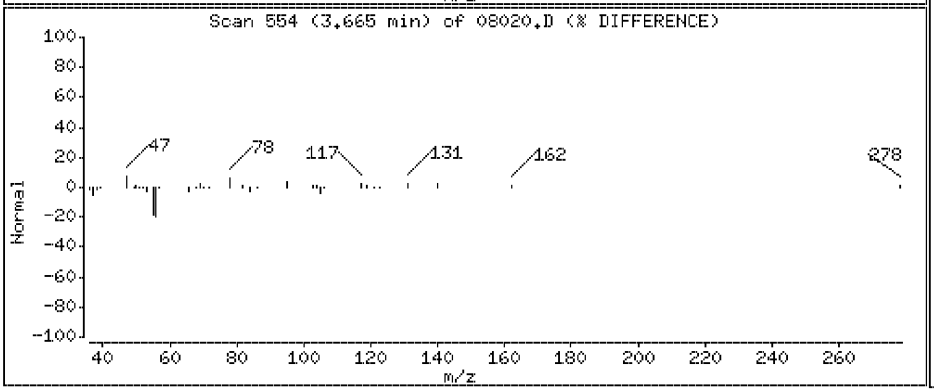
16 Trichlorofluoromethane

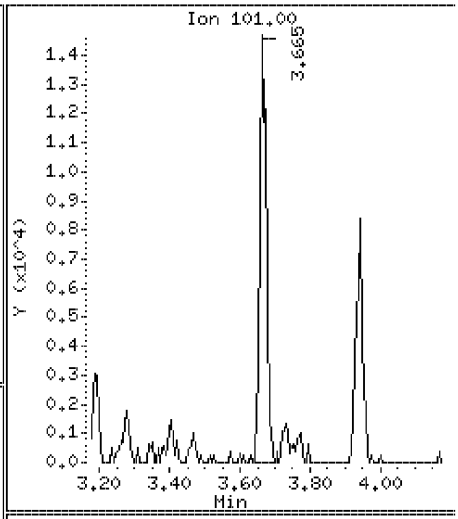
Concentration: 0.233 ppbv

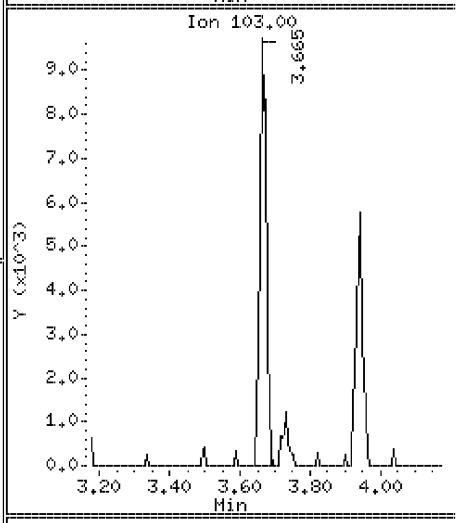


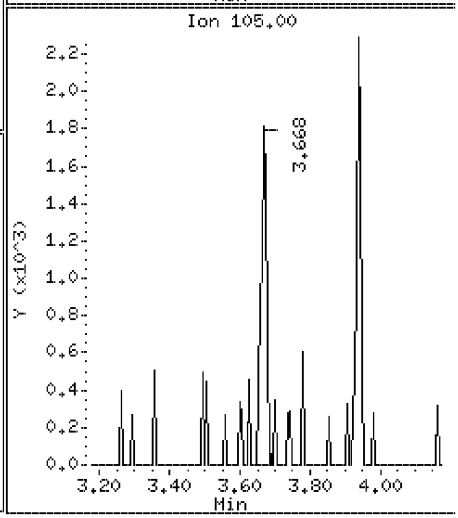












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

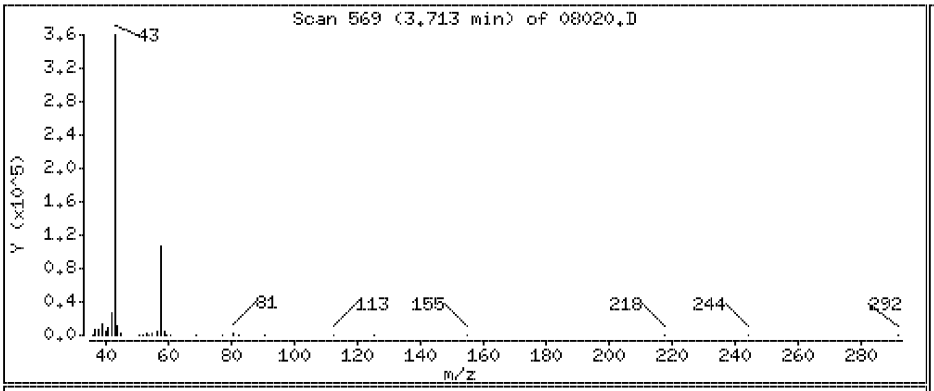
Operator: NCK

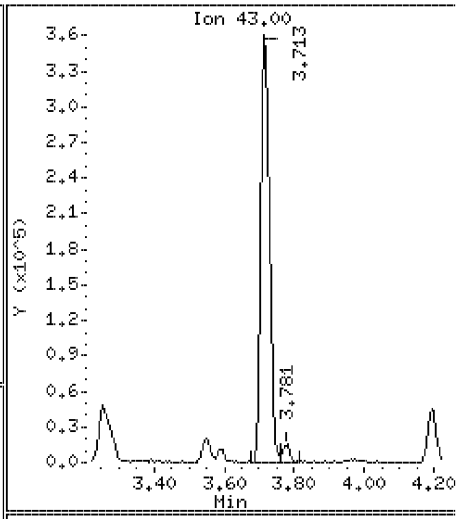
Column phase: J&W DB-5

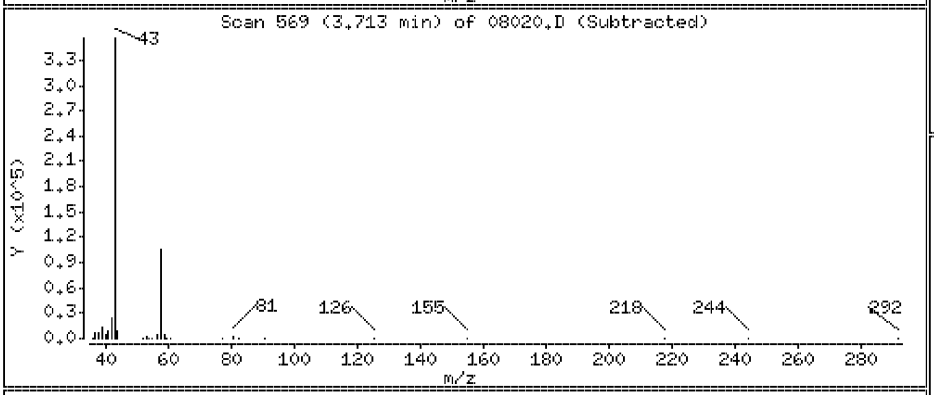
Column diameter: 0.32

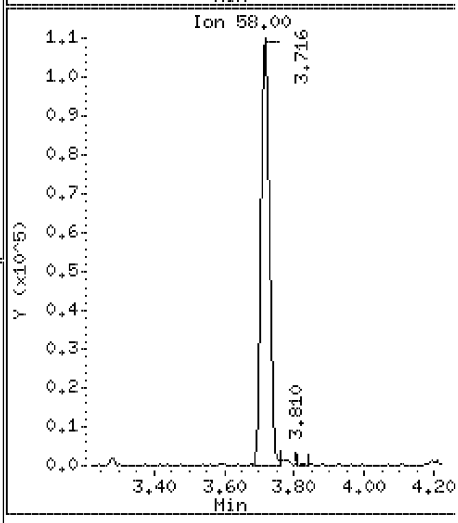
18 Acetone

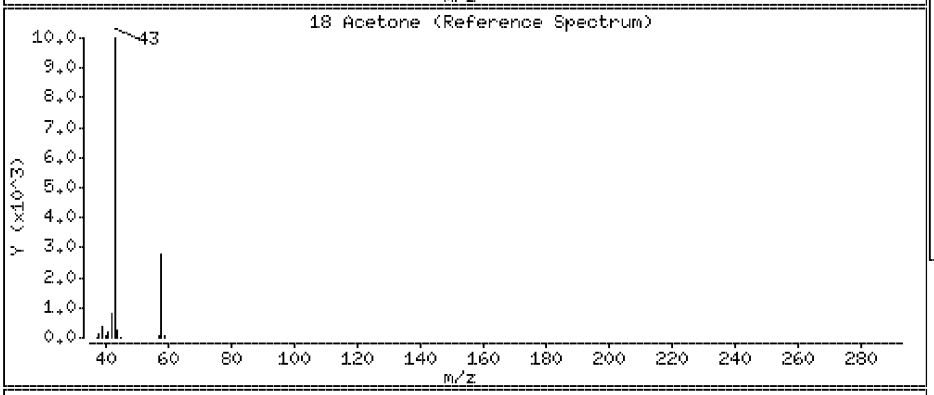
Concentration: 9.99 ppbv

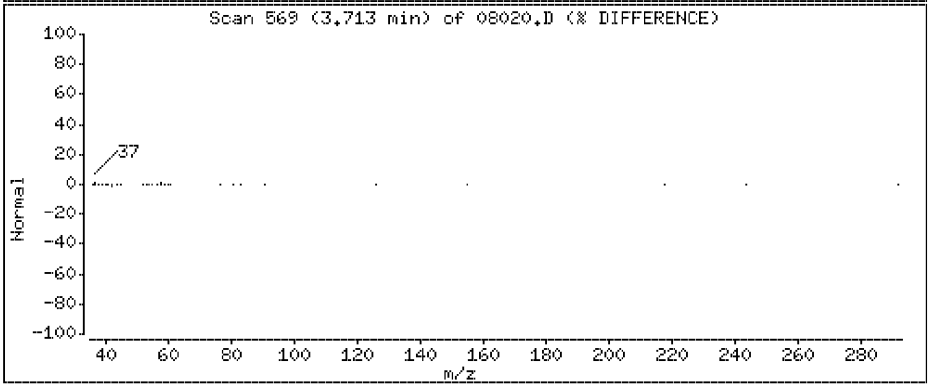












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

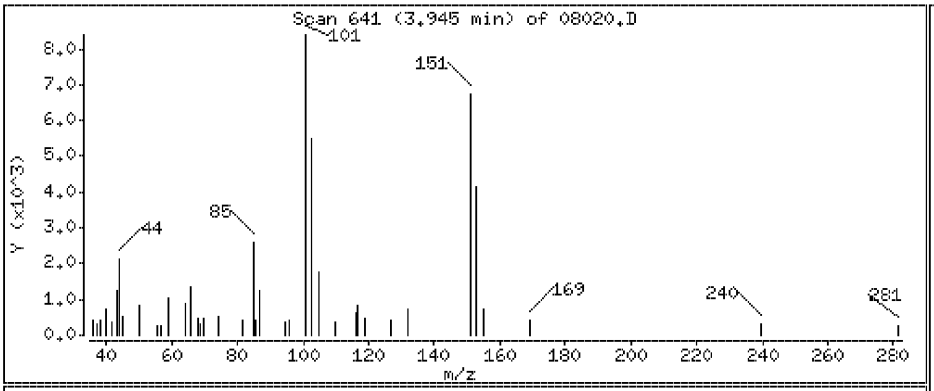
Operator: NCK

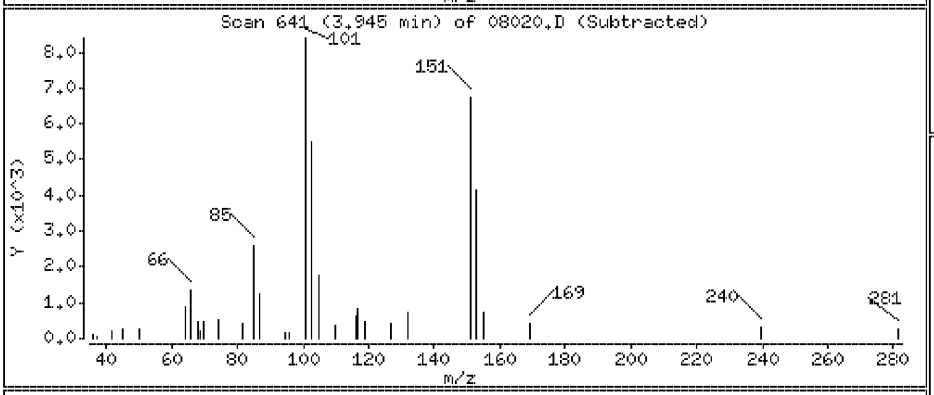
Column phase: J&W DB-5

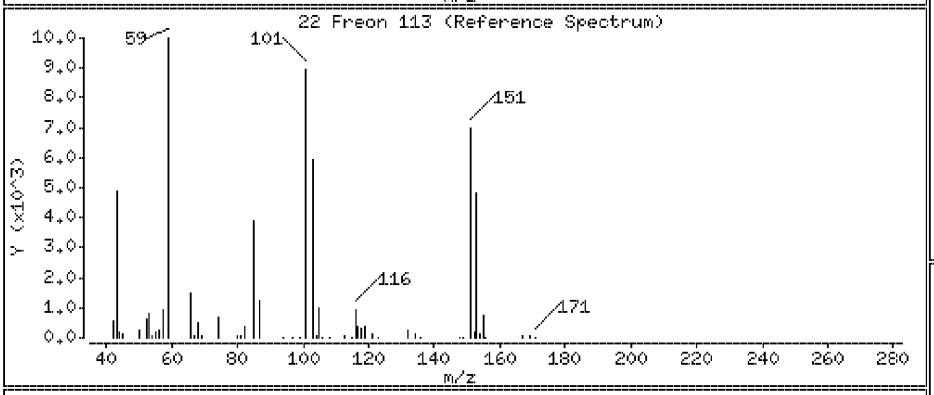
Column diameter: 0.32

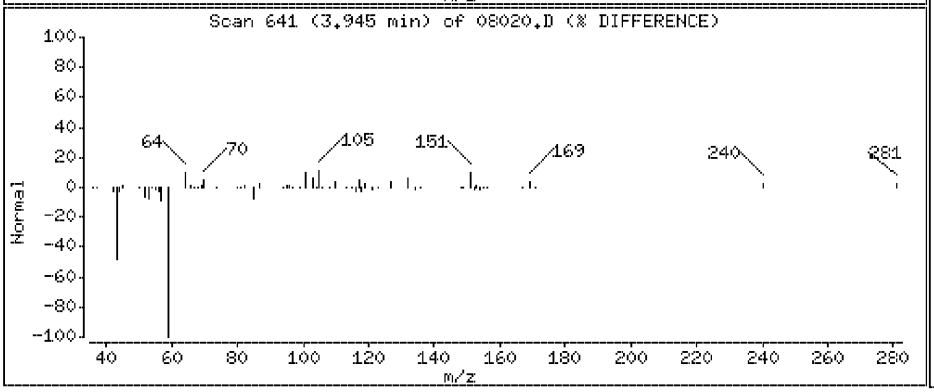
22 Freon 113

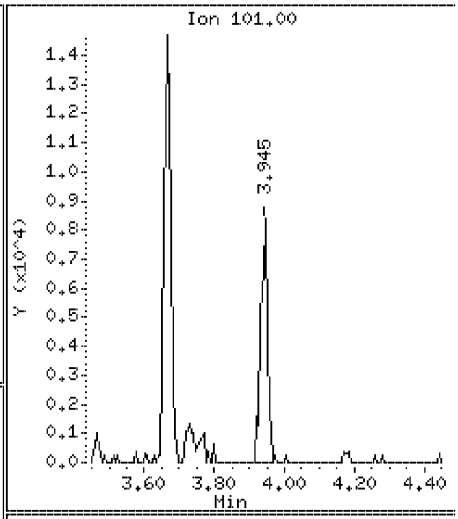
Concentration: 0.178 ppbv

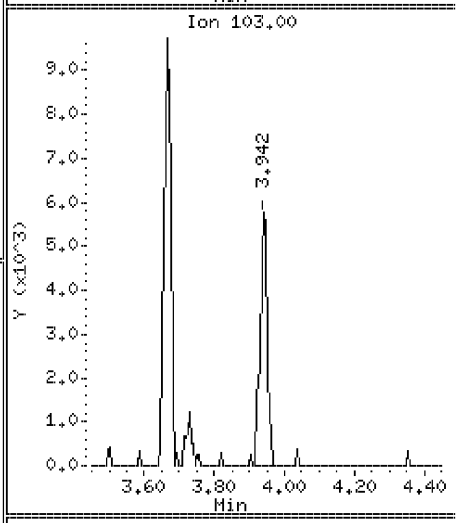


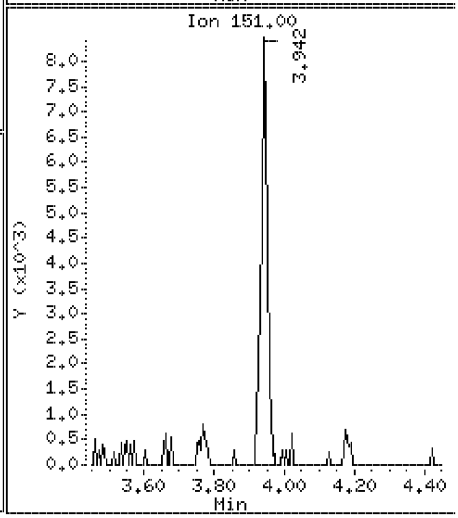












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

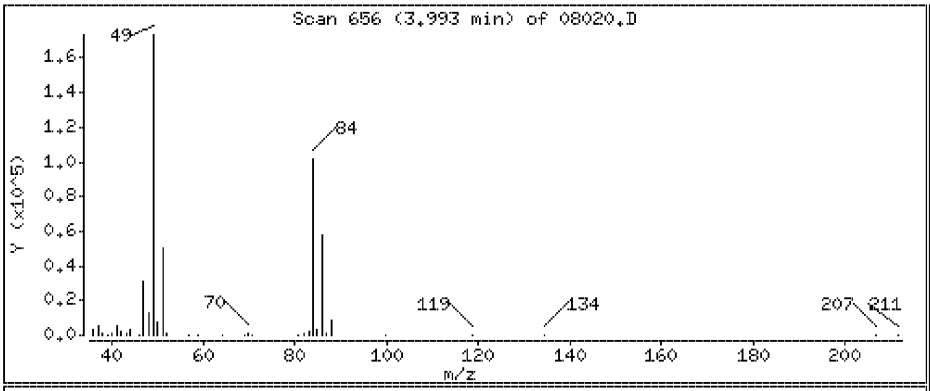
Operator: NCK

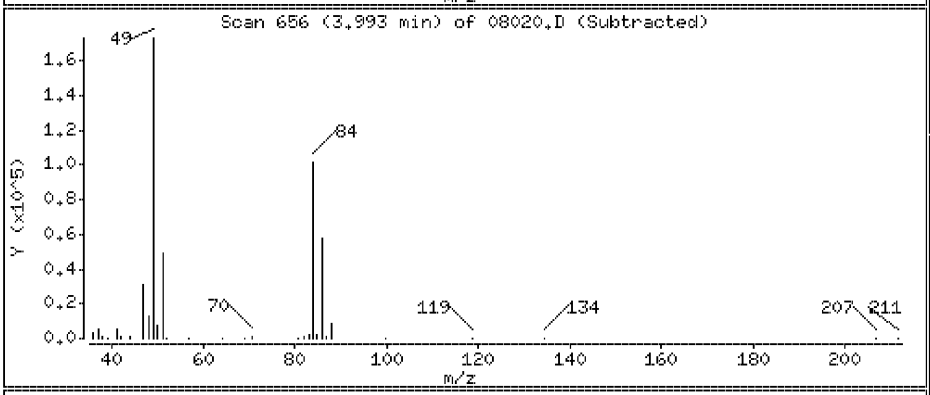
Column phase: J&W DB-5

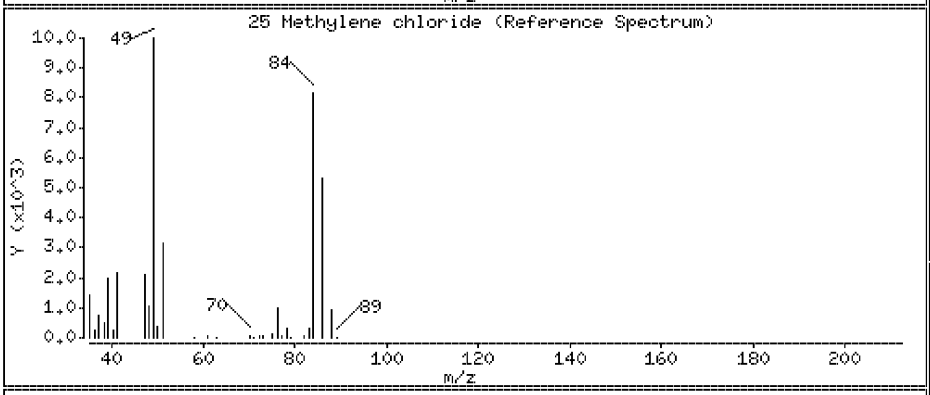
Column diameter: 0.32

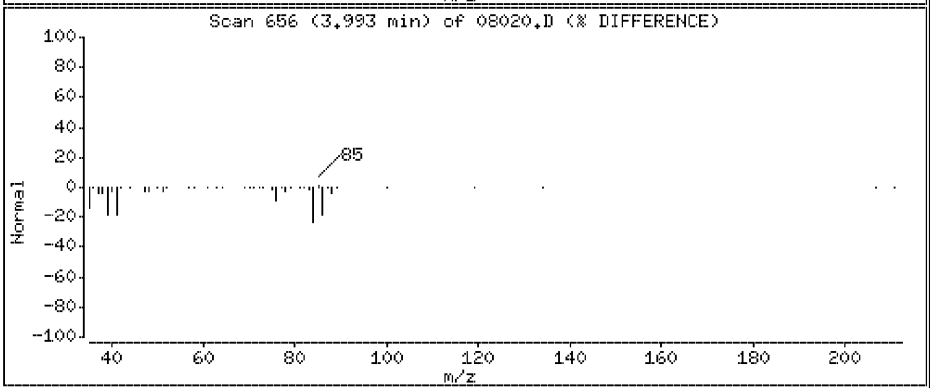
25 Methylene chloride

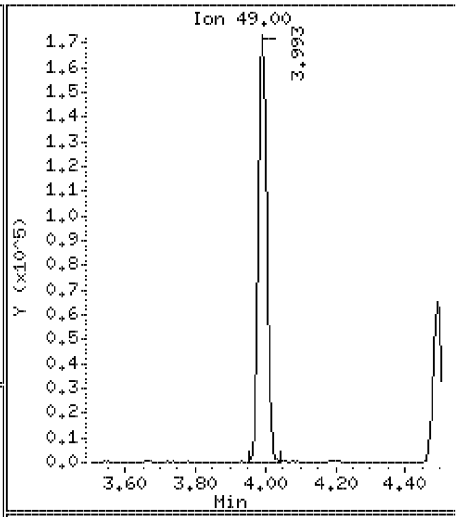
Concentration: 5.69 ppbv

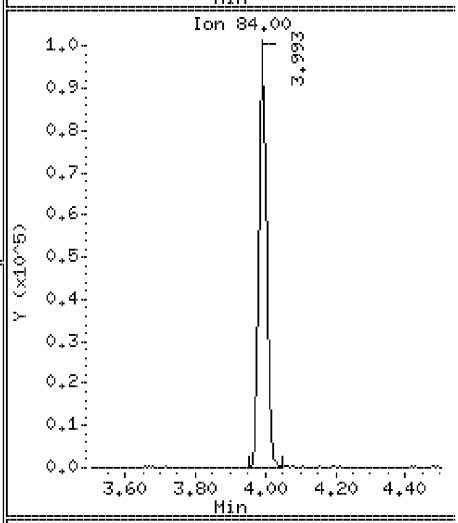


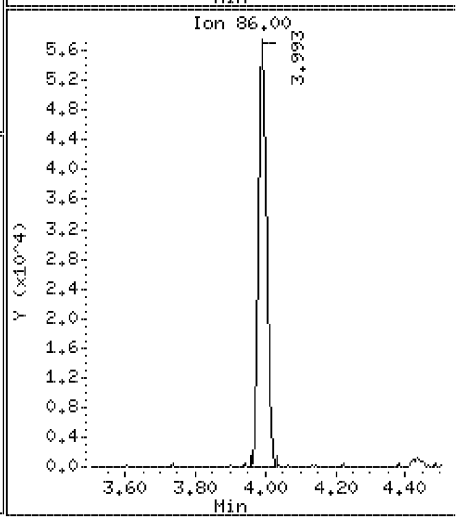












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

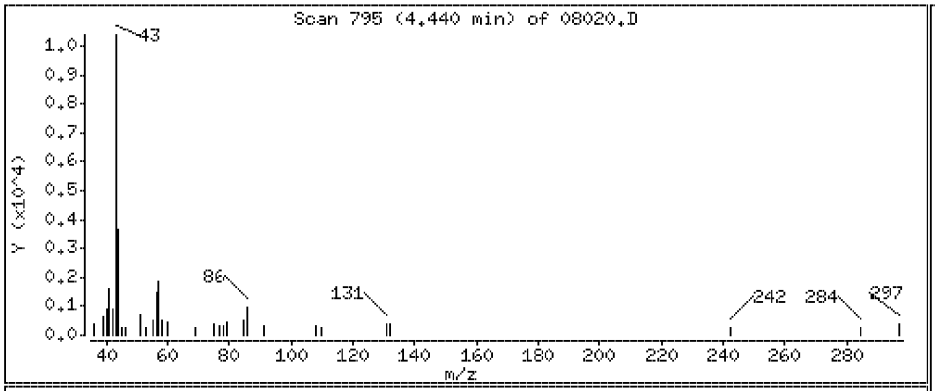
Operator: NCK

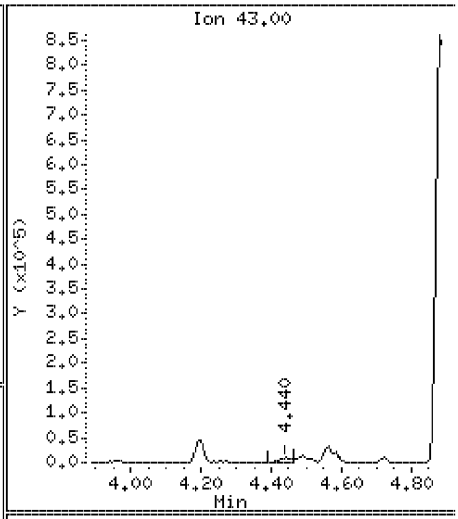
Column phase: J&W DB-5

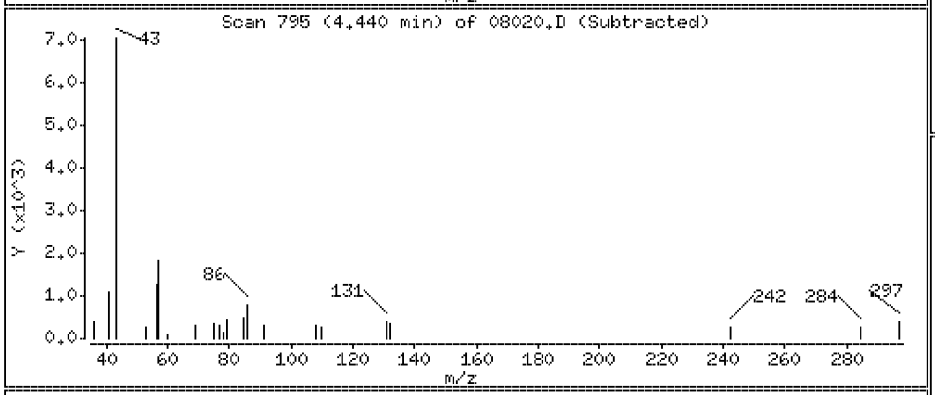
Column diameter: 0.32

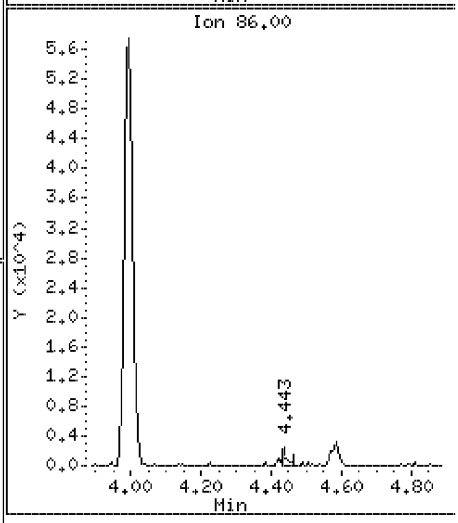
30 Vinyl Acetate

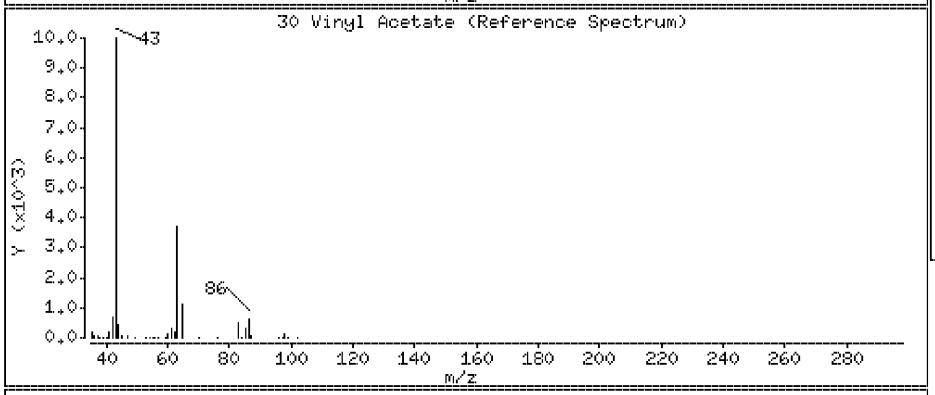
Concentration: 0.206 ppbv

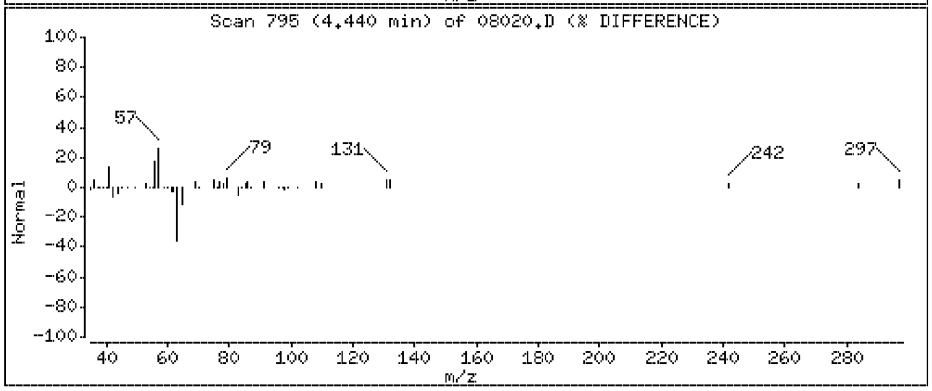












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

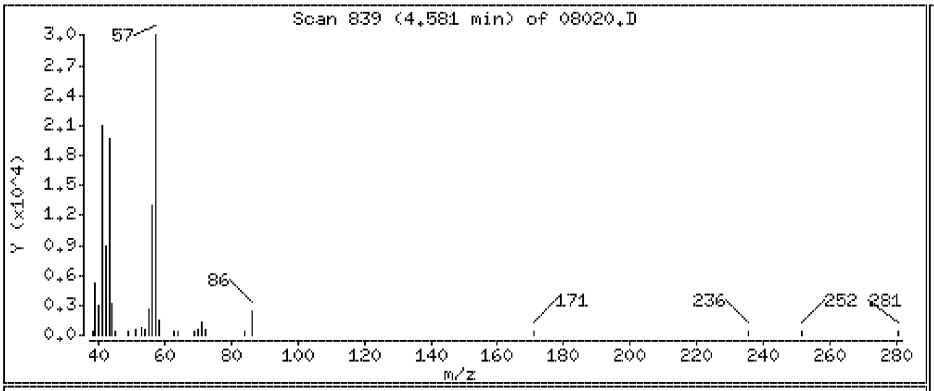
Operator: NCK

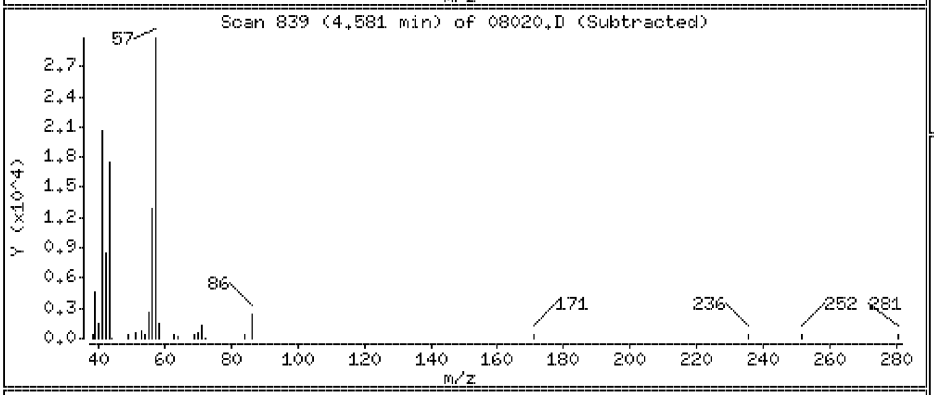
Column phase: J&W DB-5

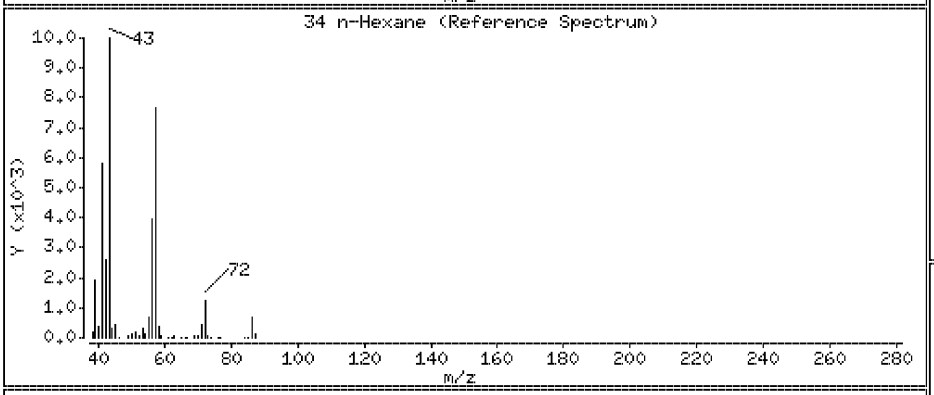
Column diameter: 0.32

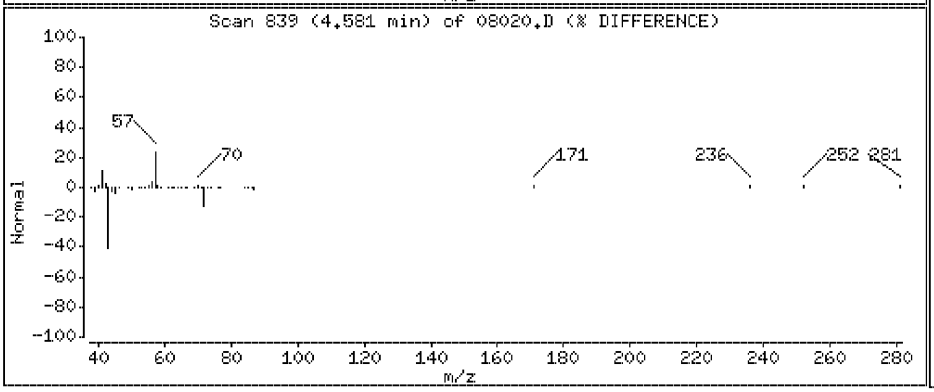
34 n-Hexane

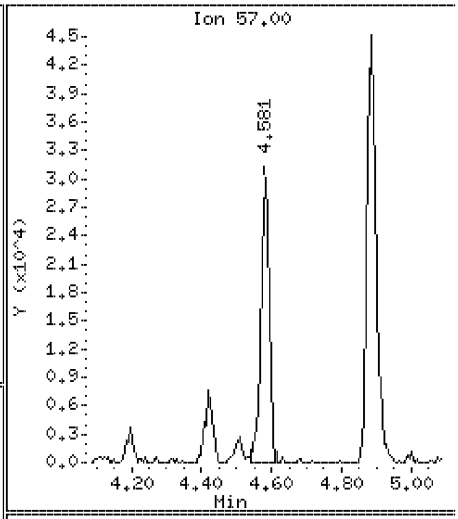
Concentration: 0.729 ppbv

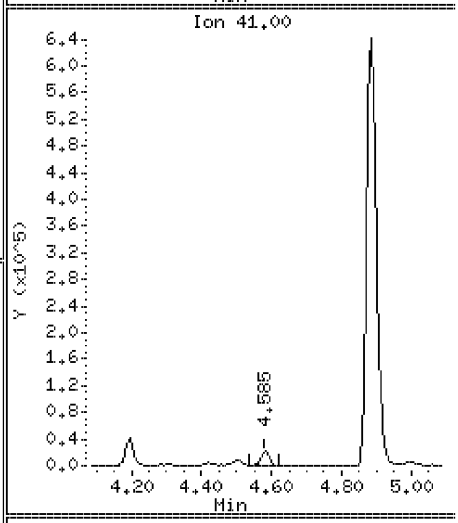


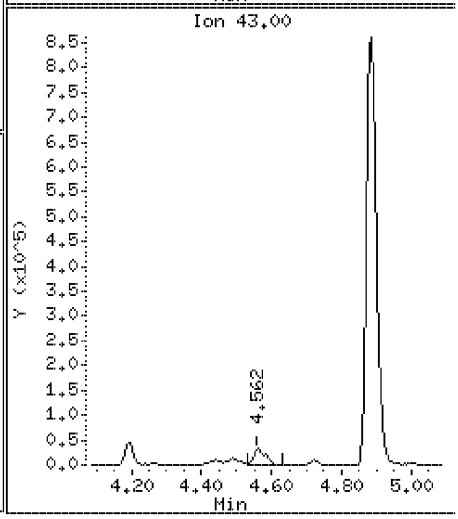












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

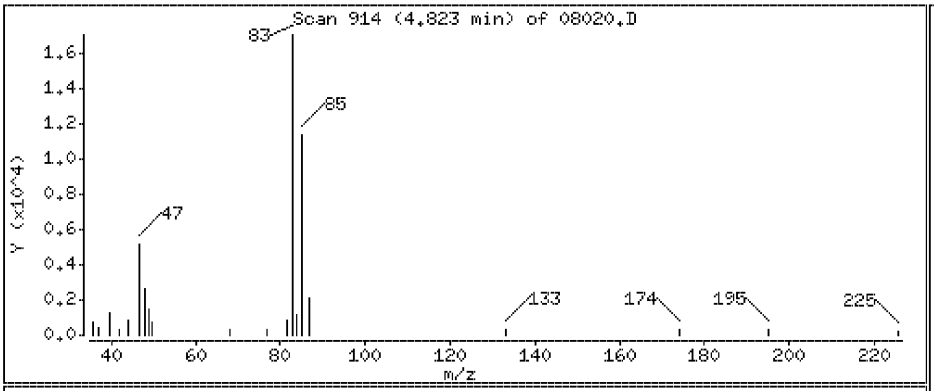
Operator: NCK

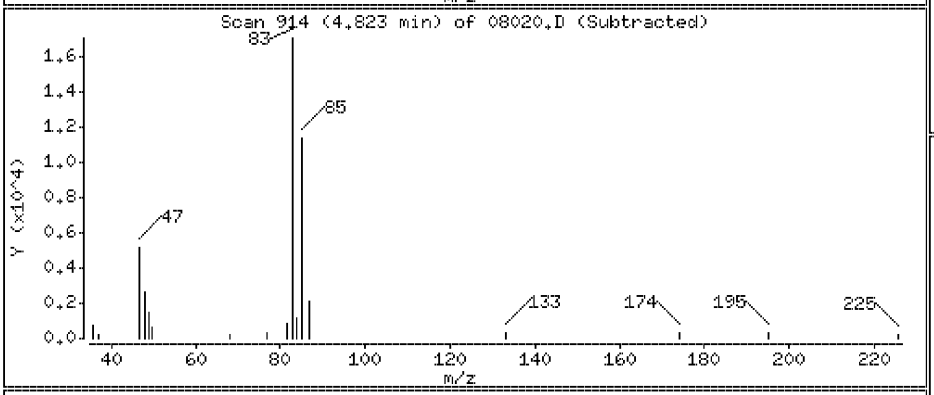
Column phase: J&W DB-5

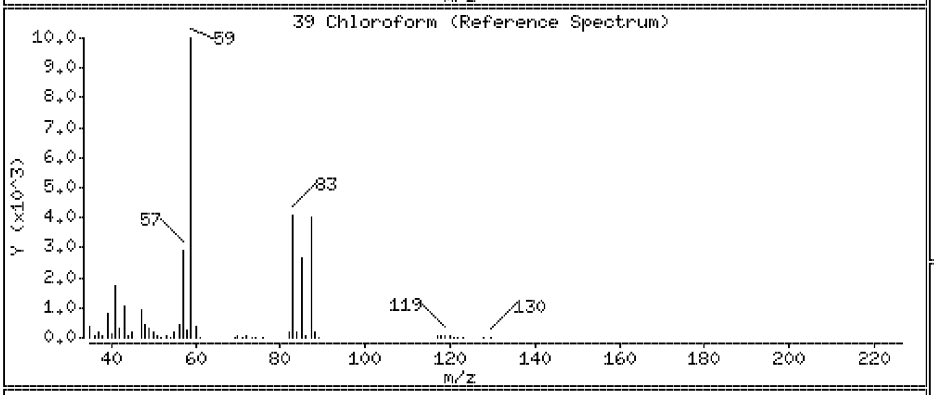
Column diameter: 0.32

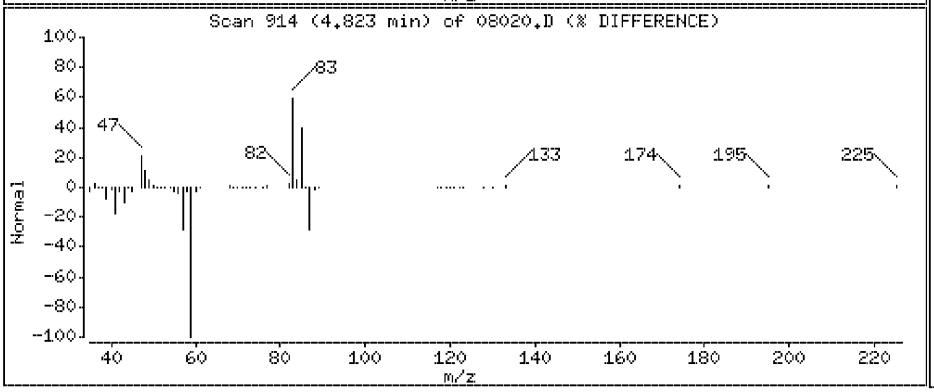
39 Chloroform

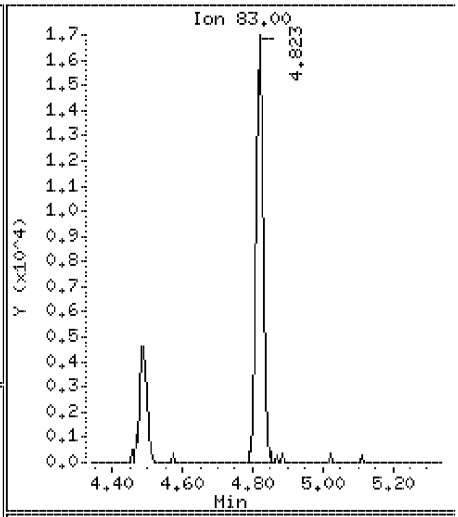
Concentration: 0.330 ppbv

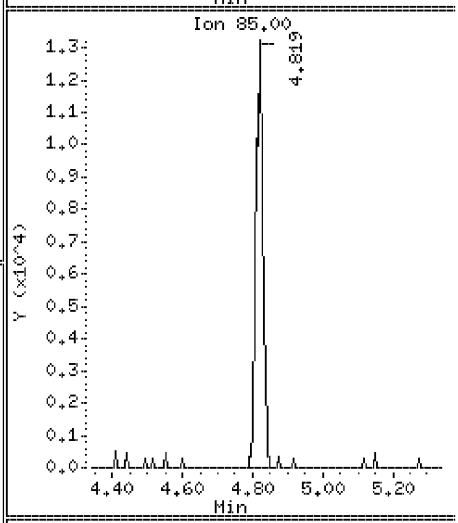


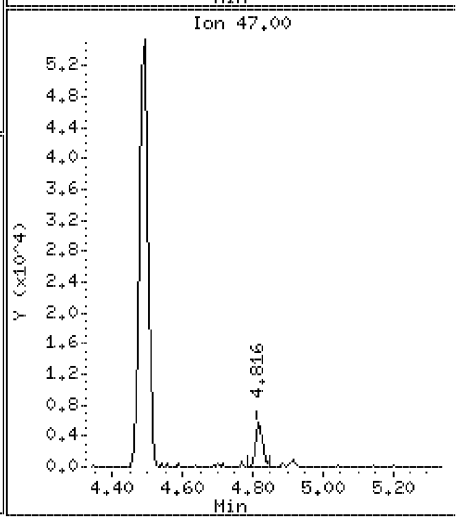












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

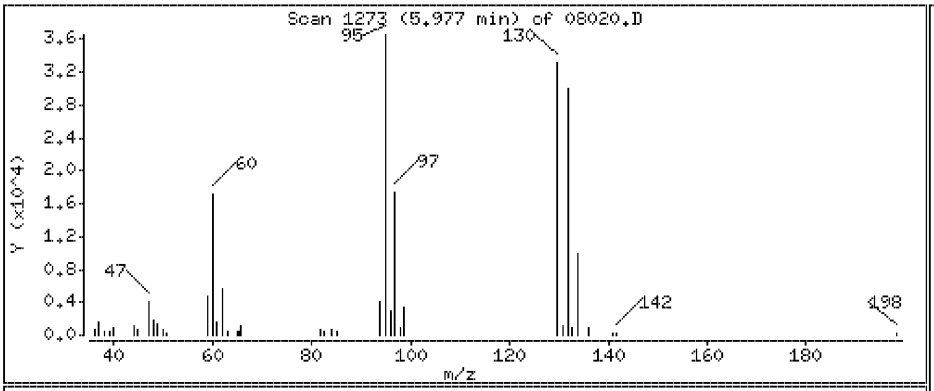
Operator: NCK

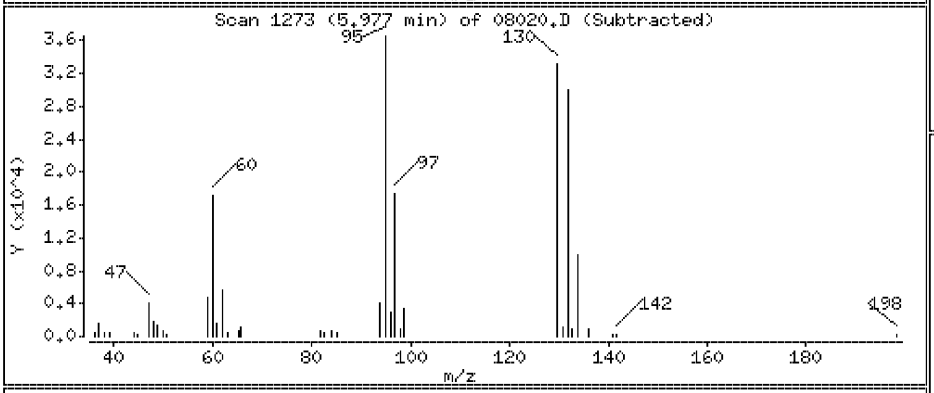
Column phase: J&W DB-5

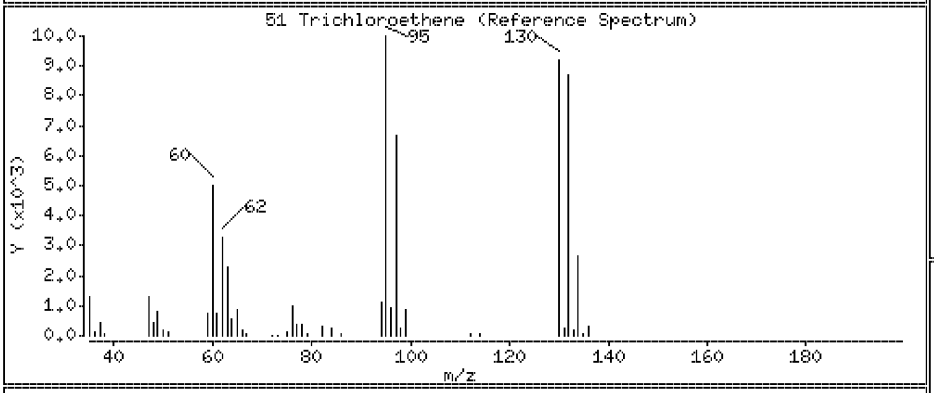
Column diameter: 0.32

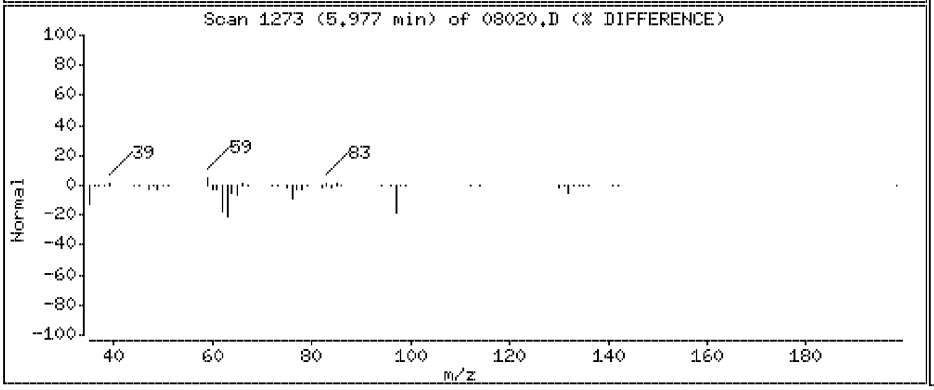
51 Trichloroethene

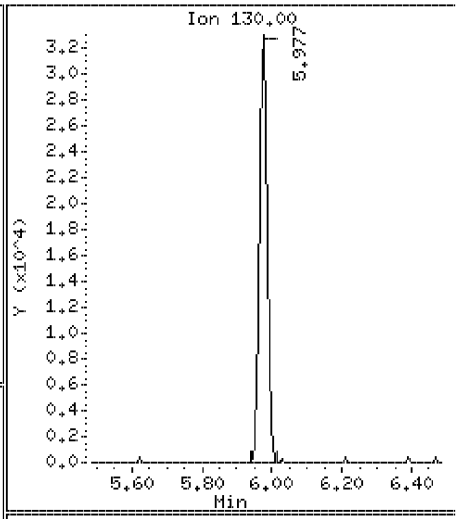
Concentration: 0.985 ppbv

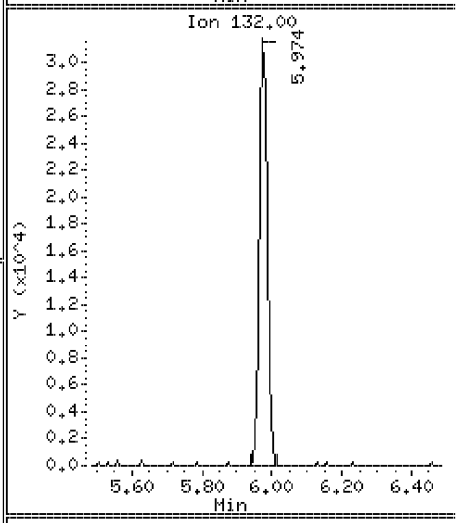


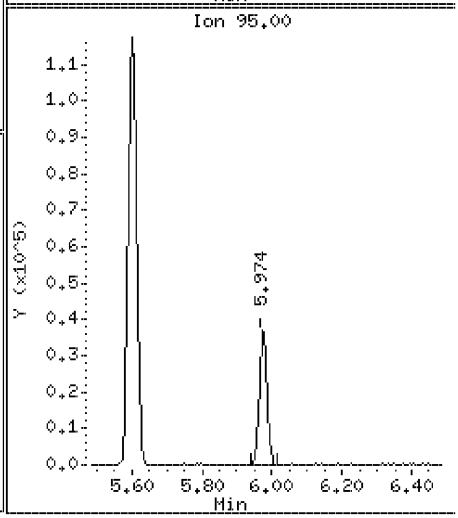












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

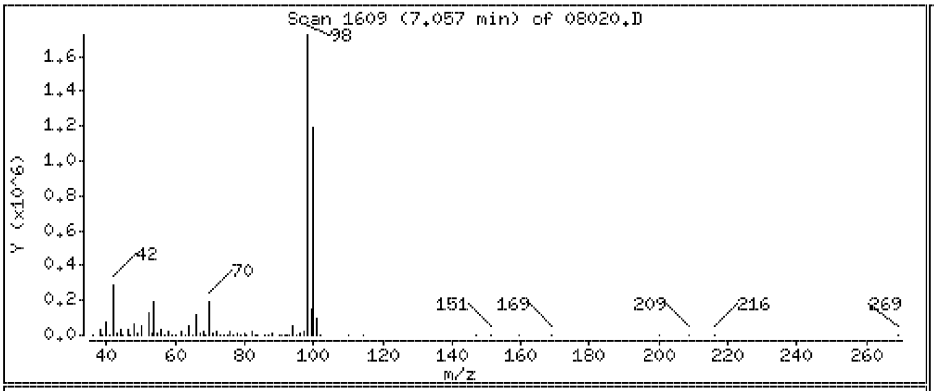
Operator: NCK

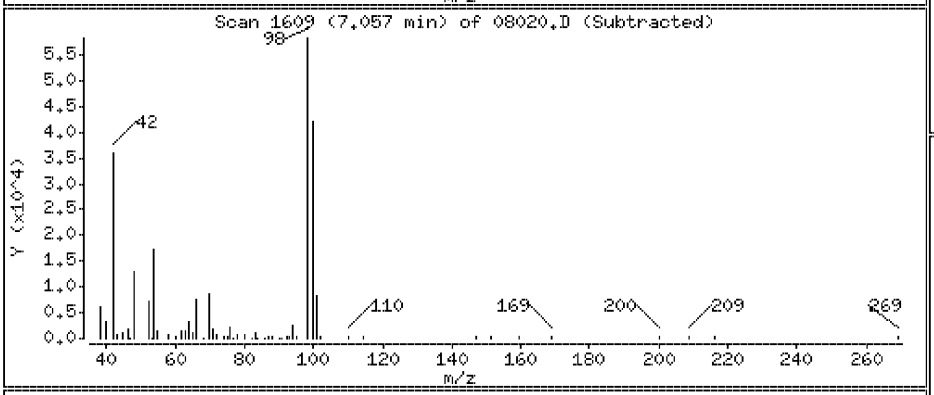
Column phase: J&W DB-5

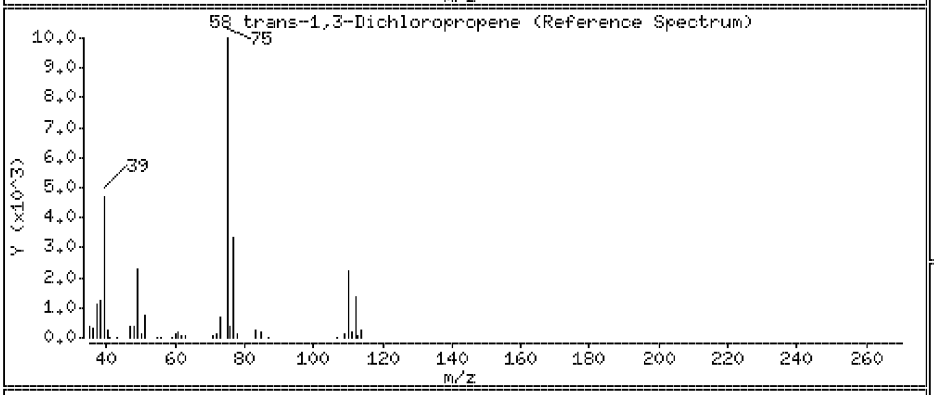
Column diameter: 0.32

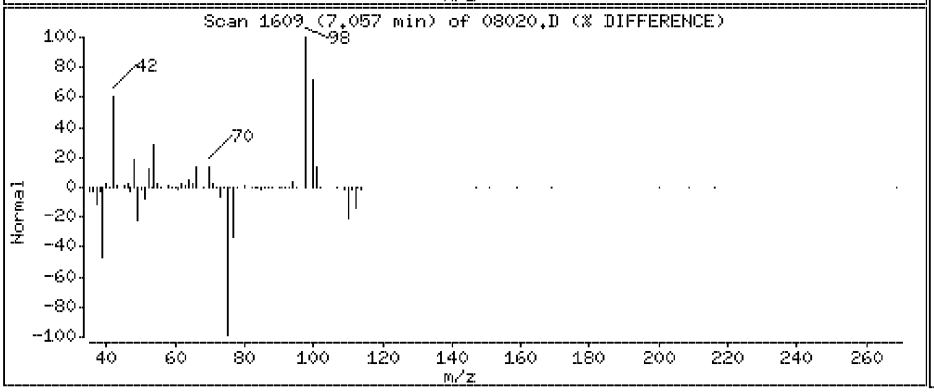
58 trans-1,3-Dichloropropene

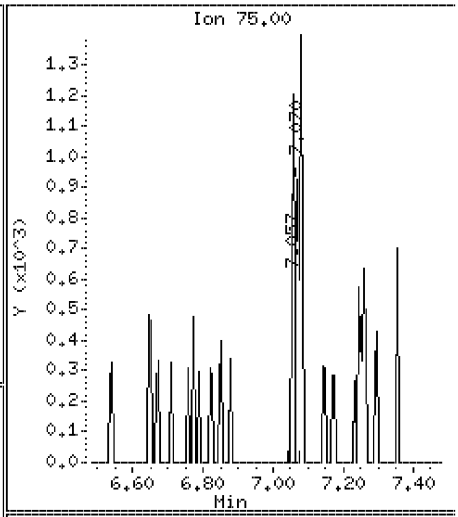
Concentration: 0.180 ppbv

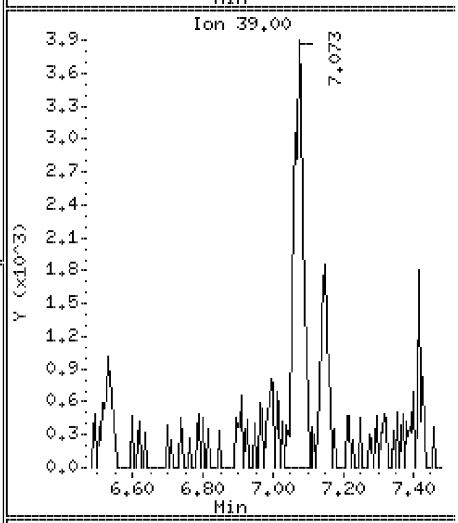


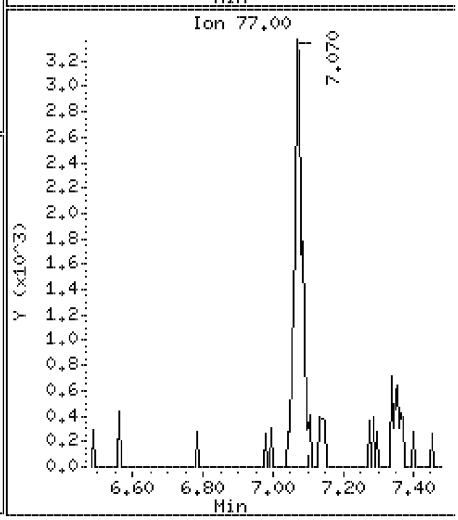












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

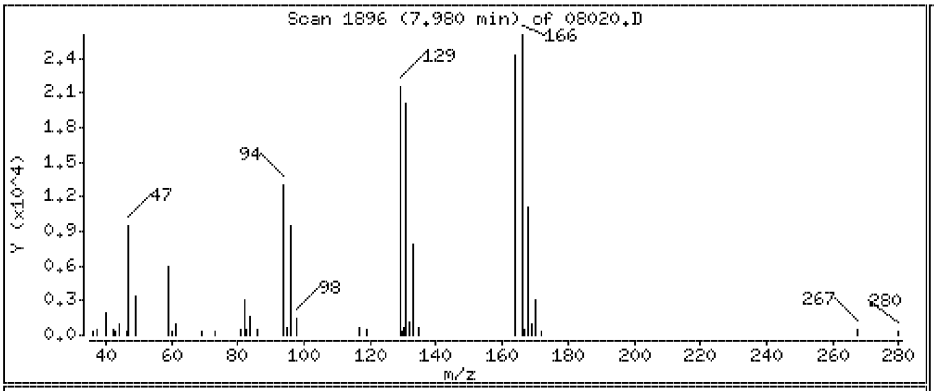
Operator: NCK

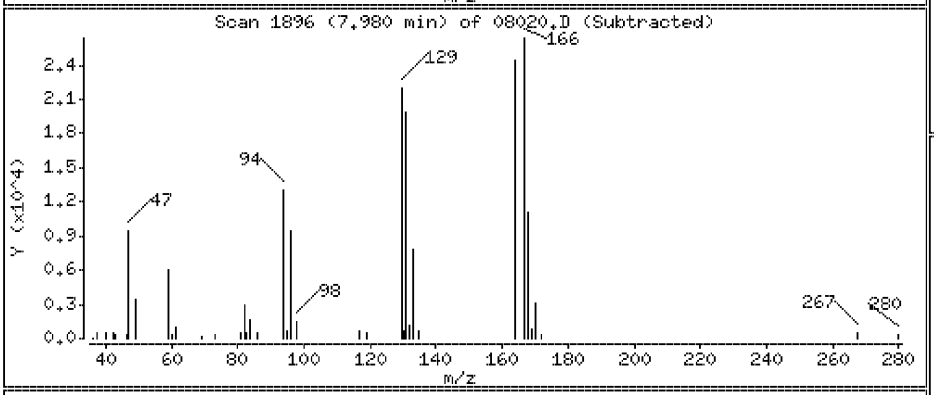
Column phase: J&W DB-5

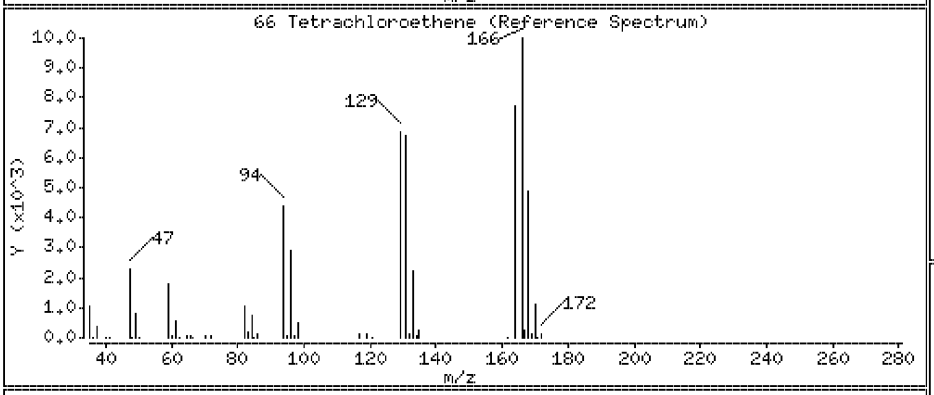
Column diameter: 0.32

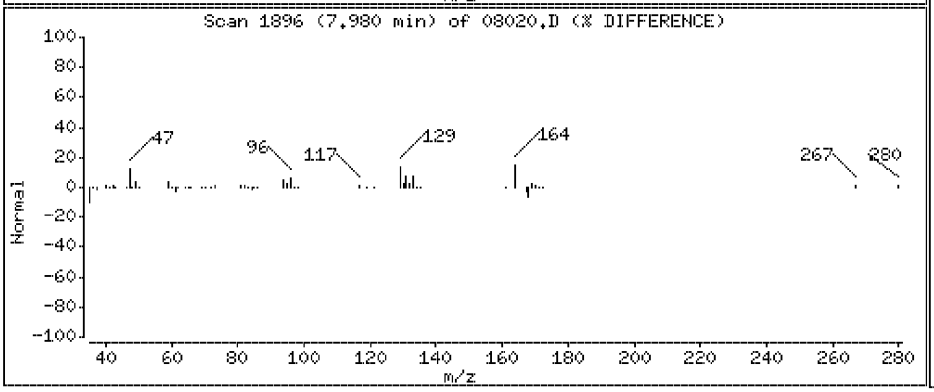
66 Tetrachloroethene

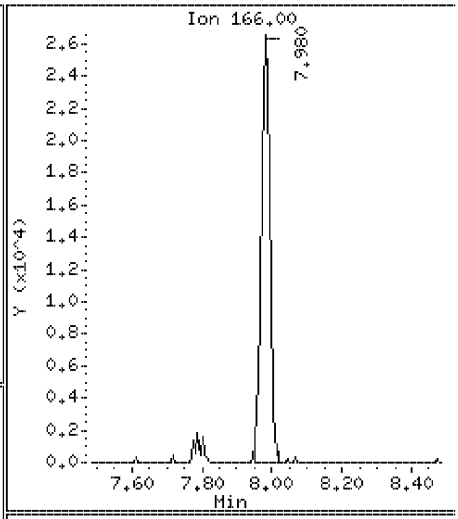
Concentration: 0.815 ppbv

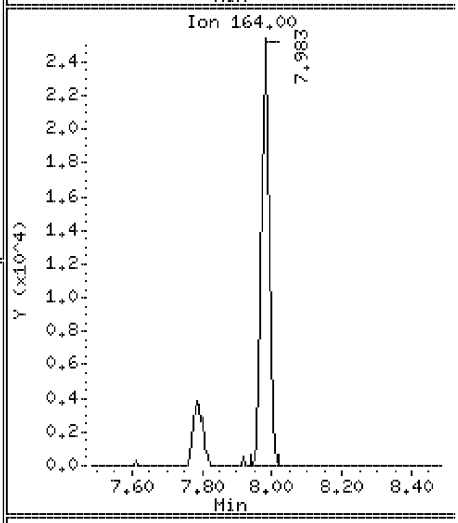


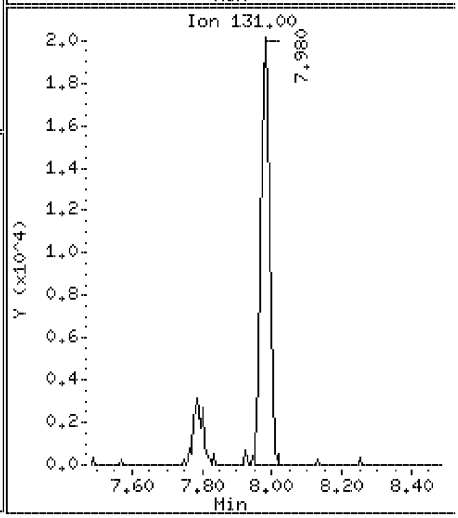












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

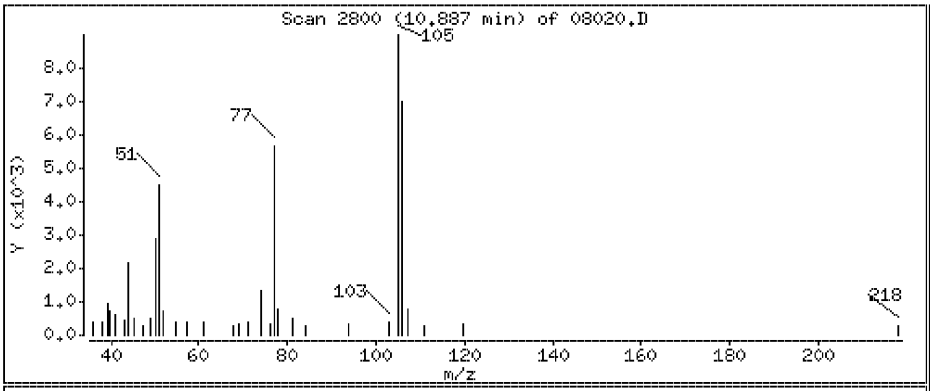
Operator: NCK

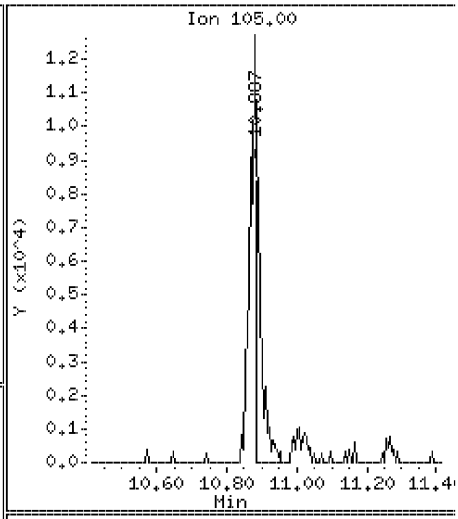
Column phase: J&W DB-5

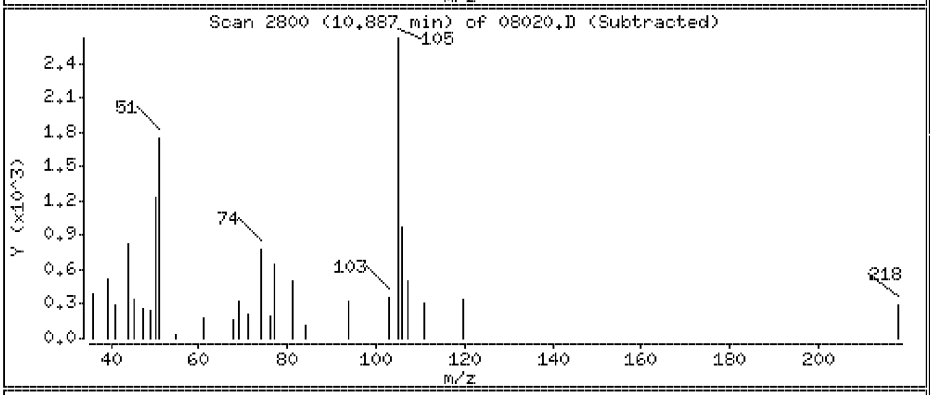
Column diameter: 0.32

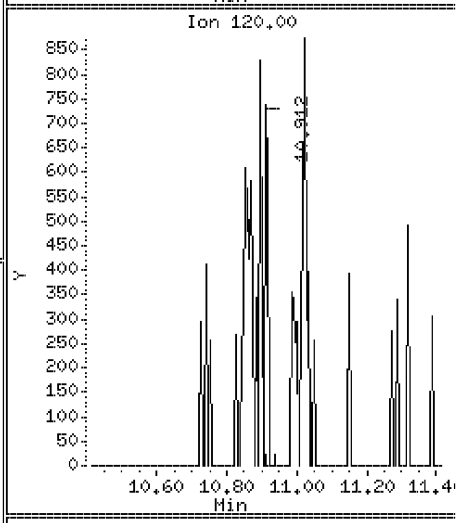
78 4-Ethyltoluene

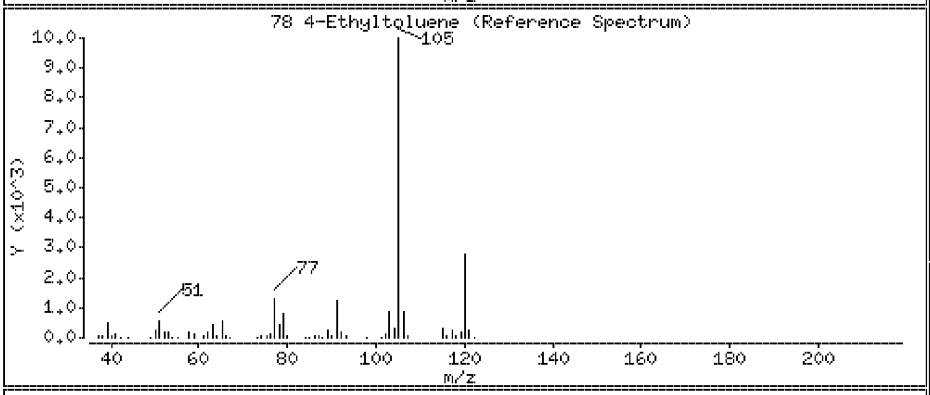
Concentration: 0.334 ppbv

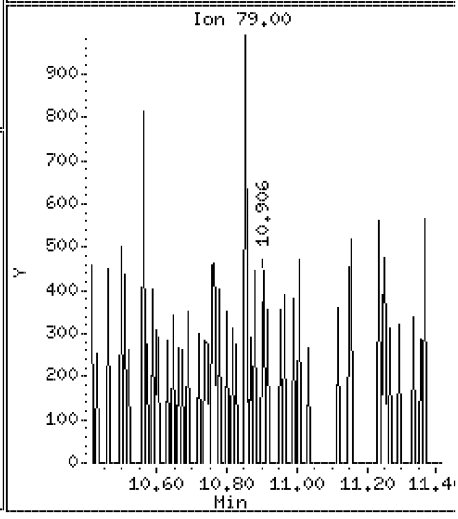


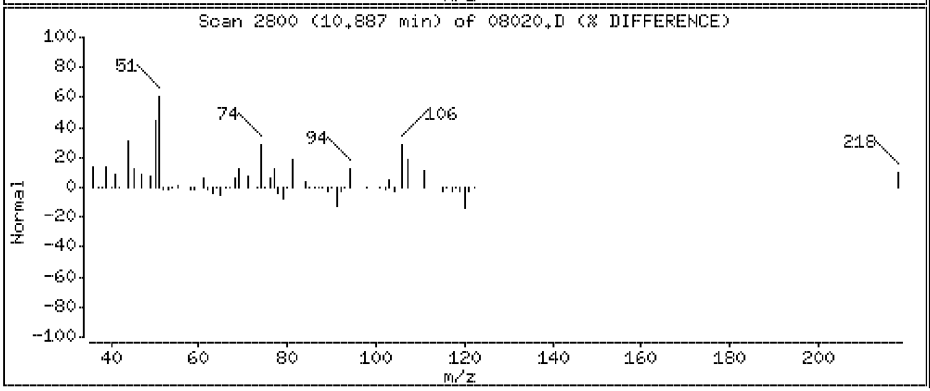












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

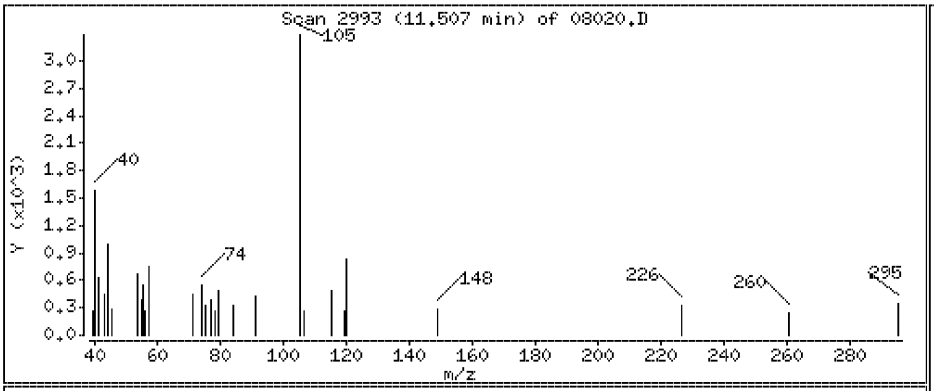
Operator: NCK

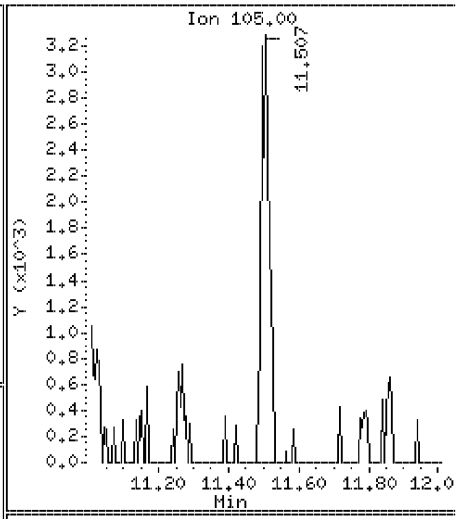
Column phase: J&W DB-5

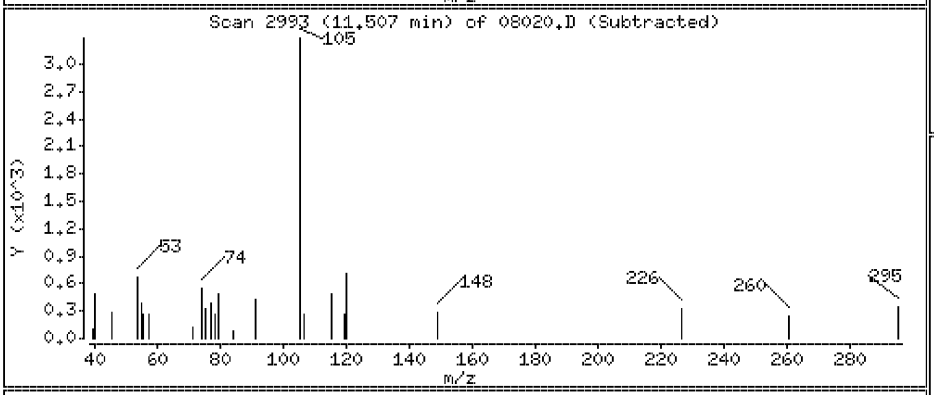
Column diameter: 0.32

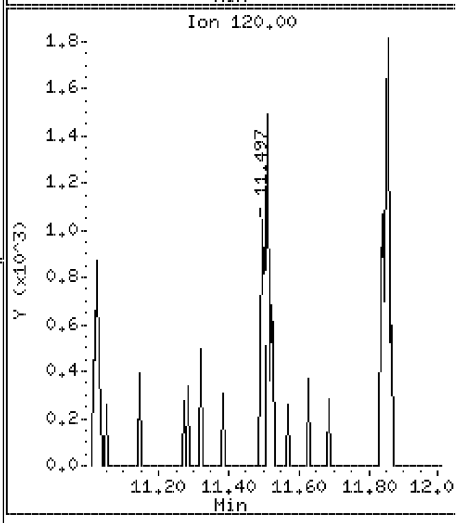
82 1,2,4-Trimethylbenzene

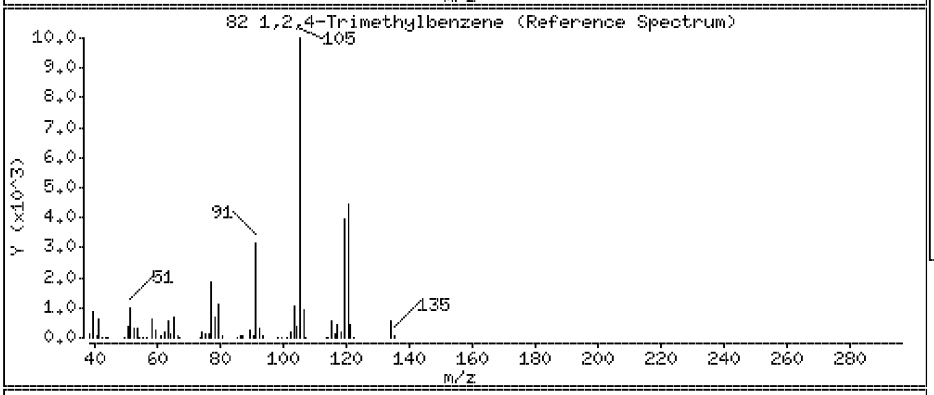
Concentration: 0.263 ppbv

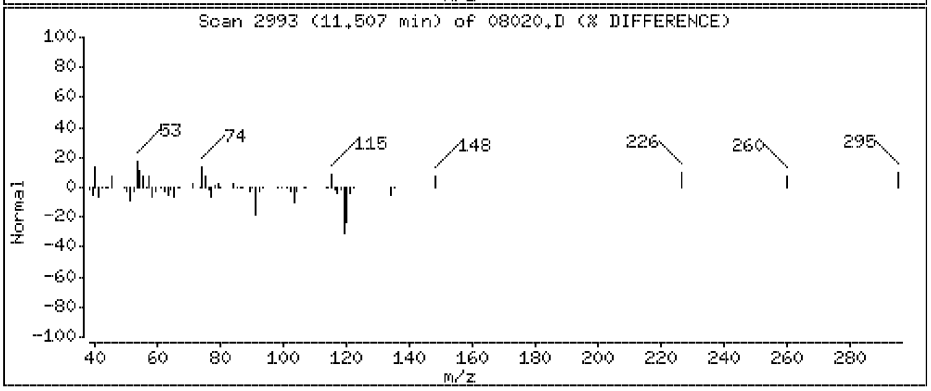












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08020.D

Date : 21-MAR-2017 18:21

Client ID:

Instrument: 10airB.i

Sample Info:

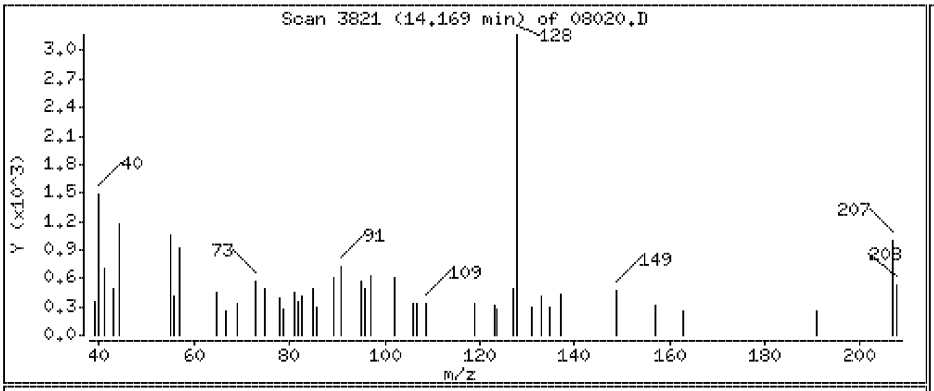
Operator: NCK

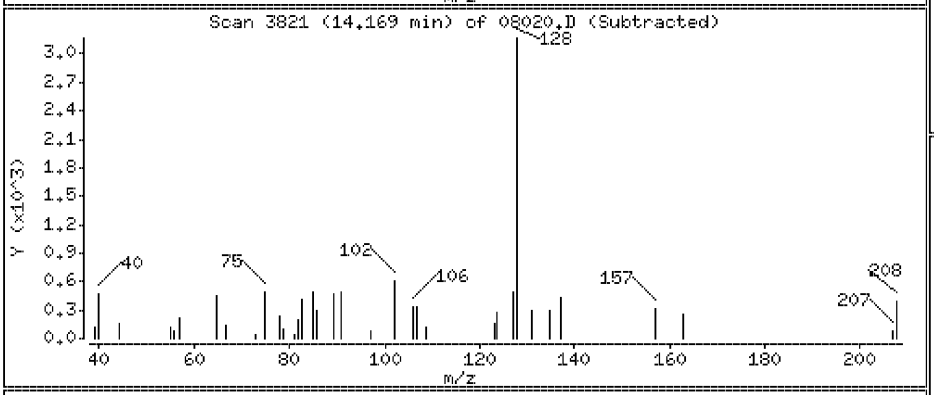
Column phase: J&W DB-5

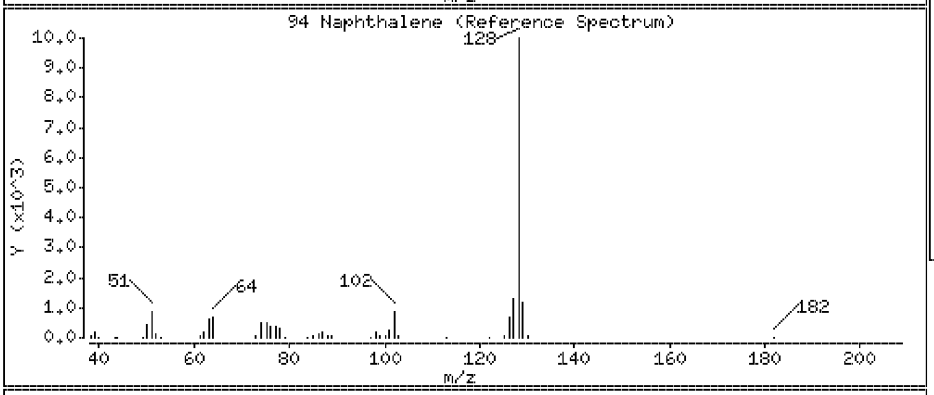
Column diameter: 0.32

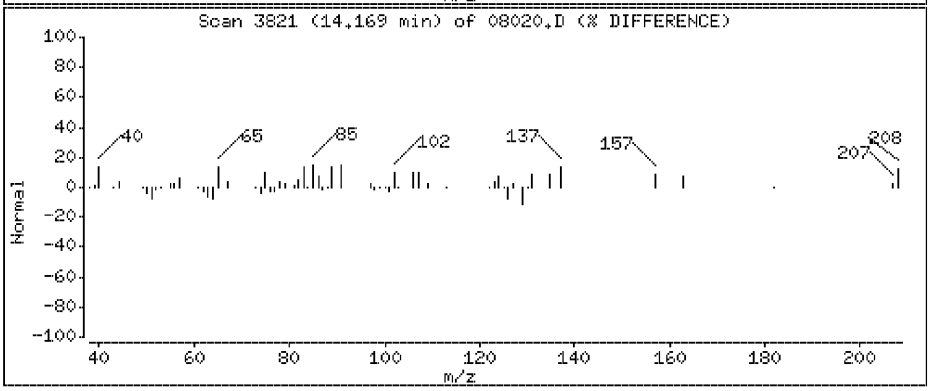
94 Naphthalene

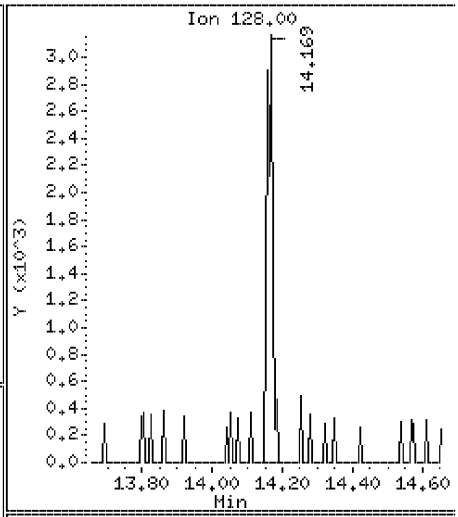
Concentration: 0.793 ppbv

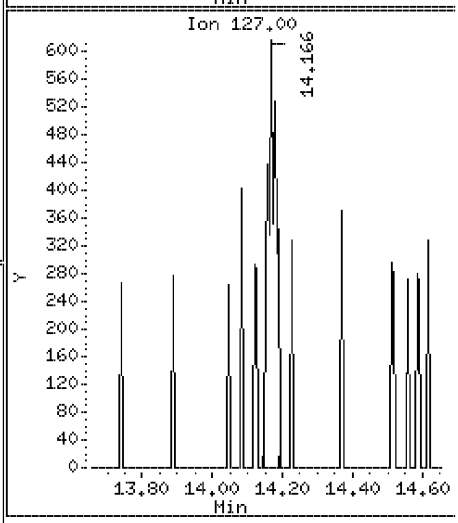






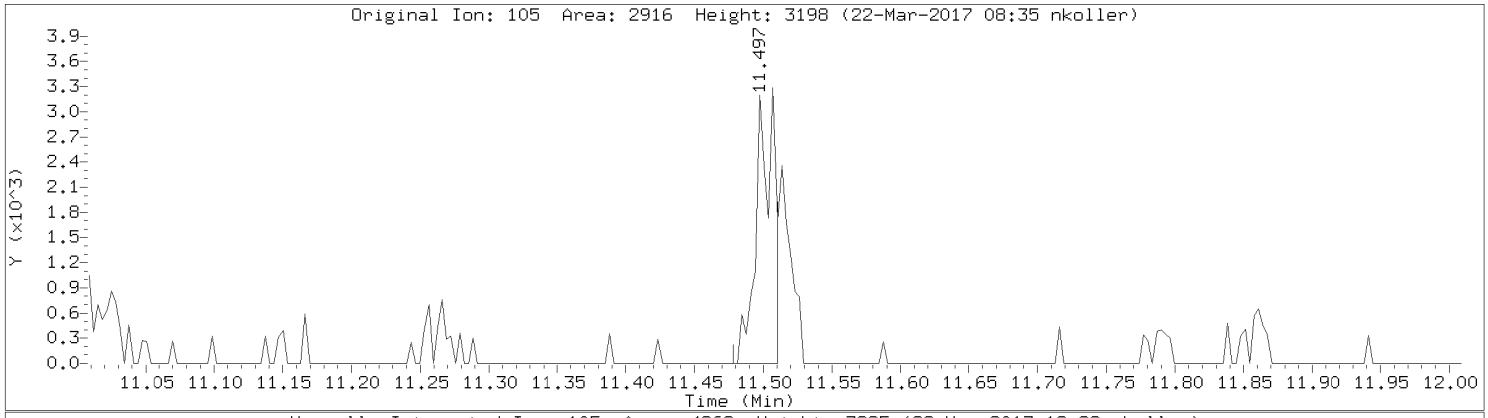


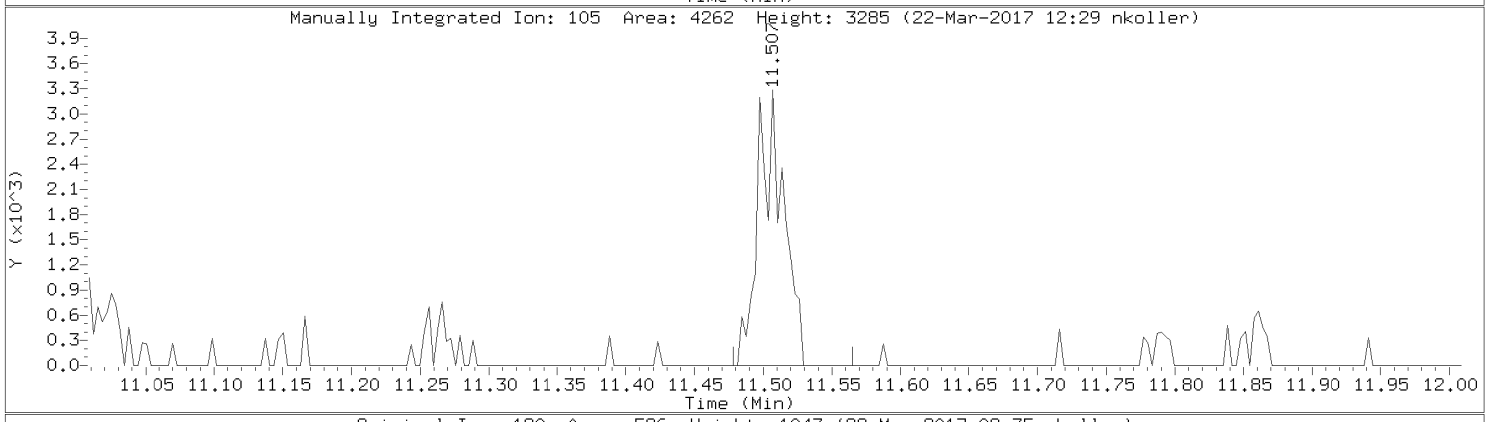


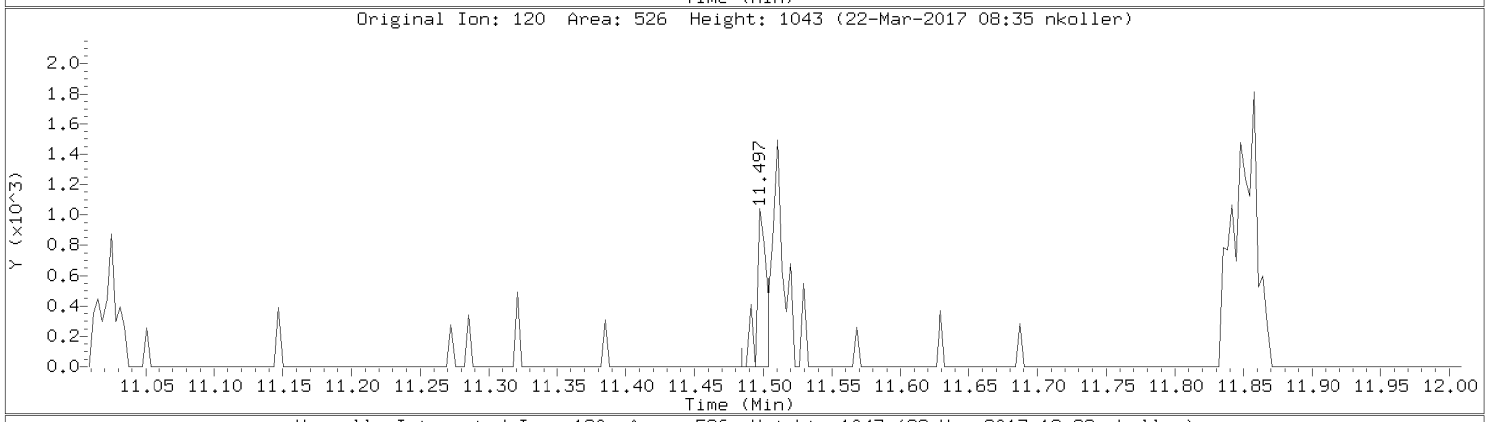


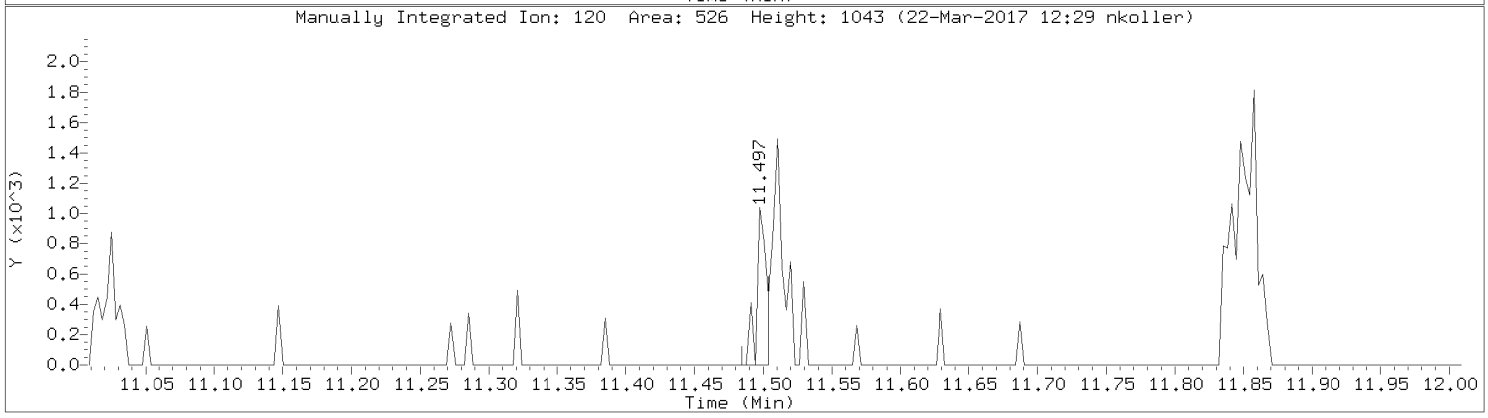
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08020.D
Injection Date: 21-MAR-2017 18:21
Instrument: 10airB.i
Lab Sample ID: 10381035010

Compound: 1,2,4-Trimethylbenzene
CAS Number: 95-63-6



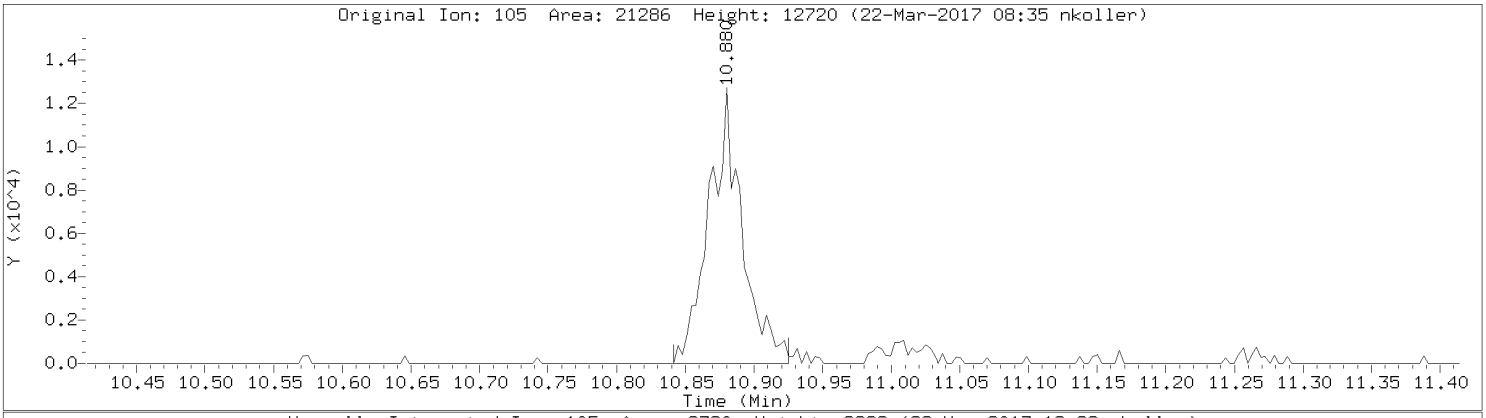


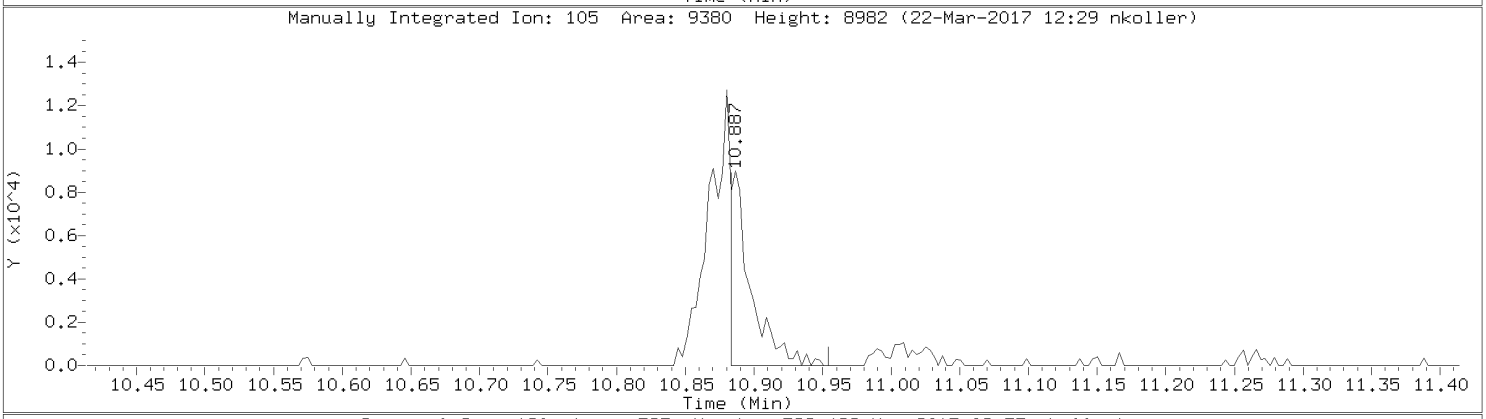


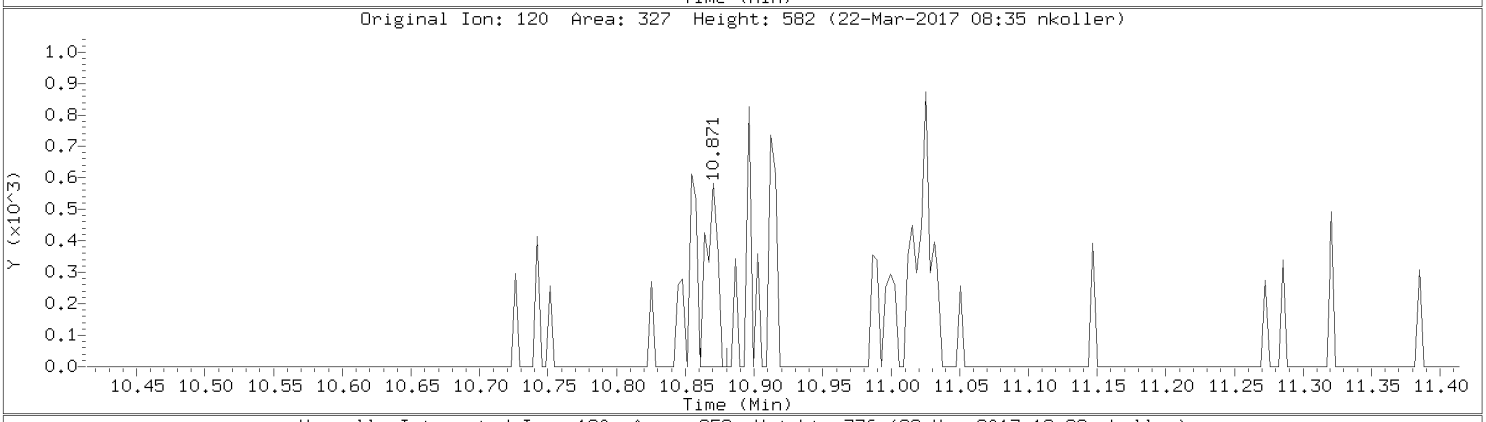


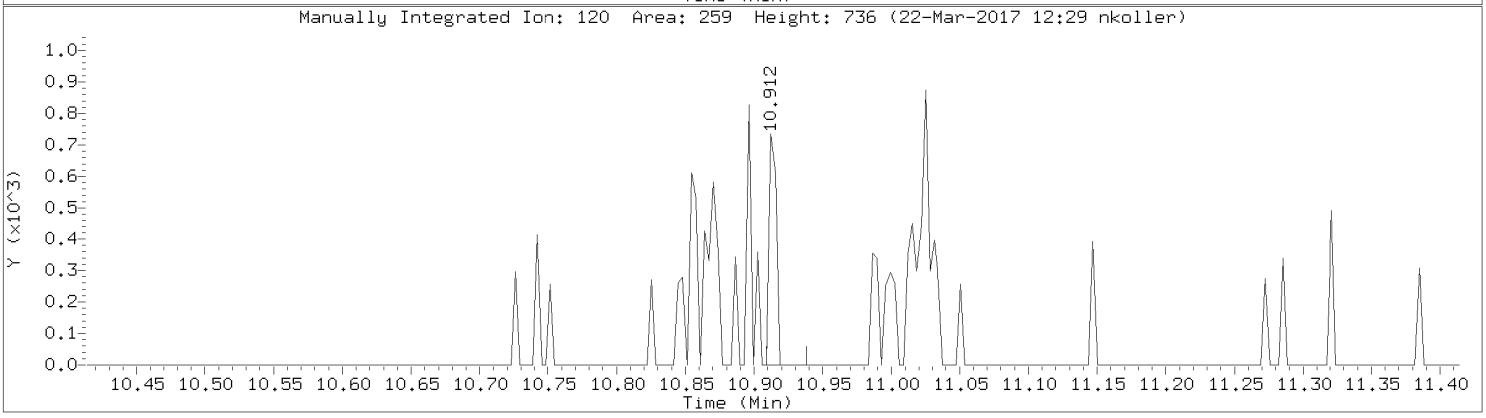
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08020.D
Injection Date: 21-MAR-2017 18:21
Instrument: 10airB.i
Lab Sample ID: 10381035010

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

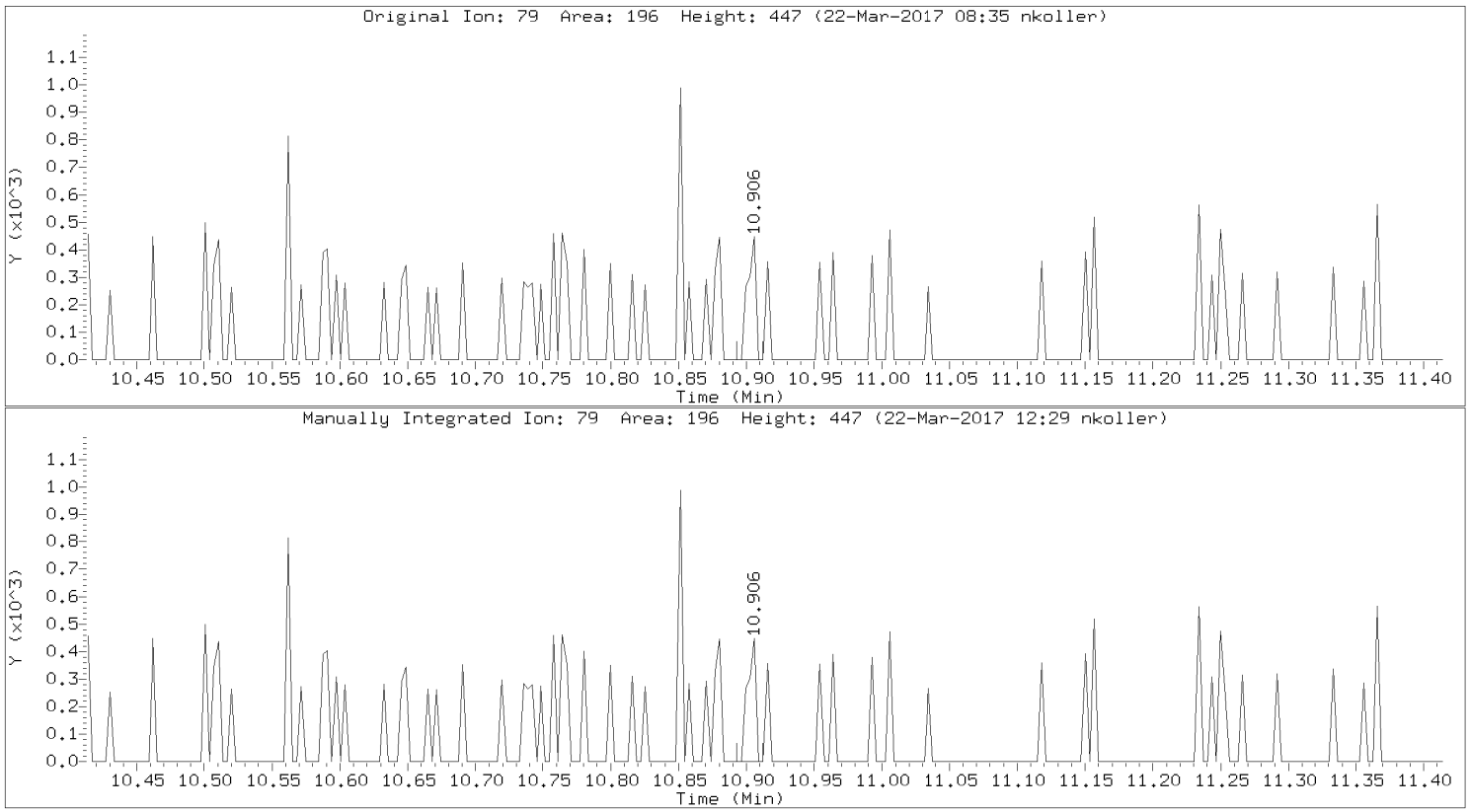






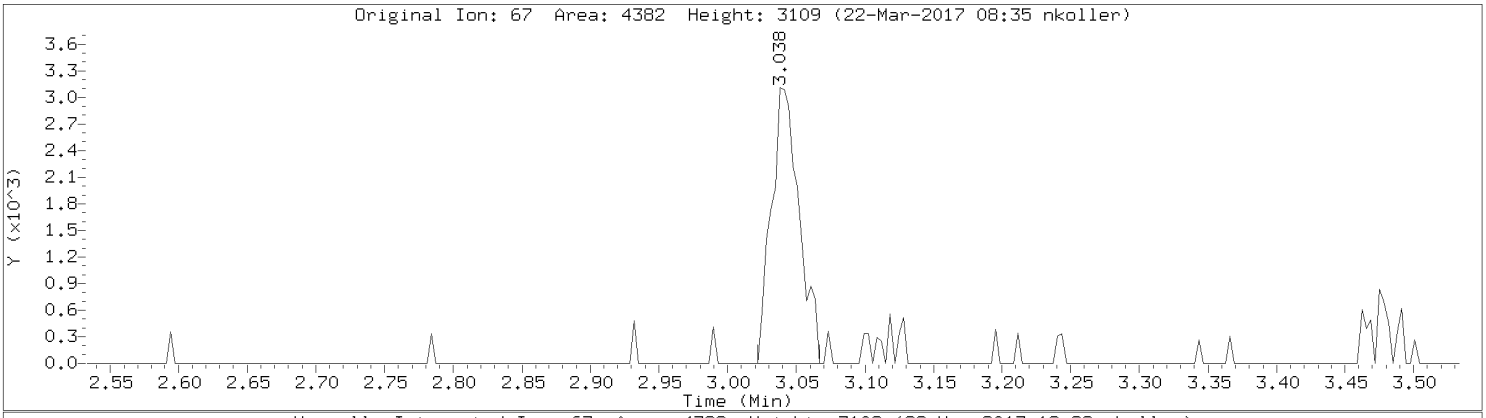


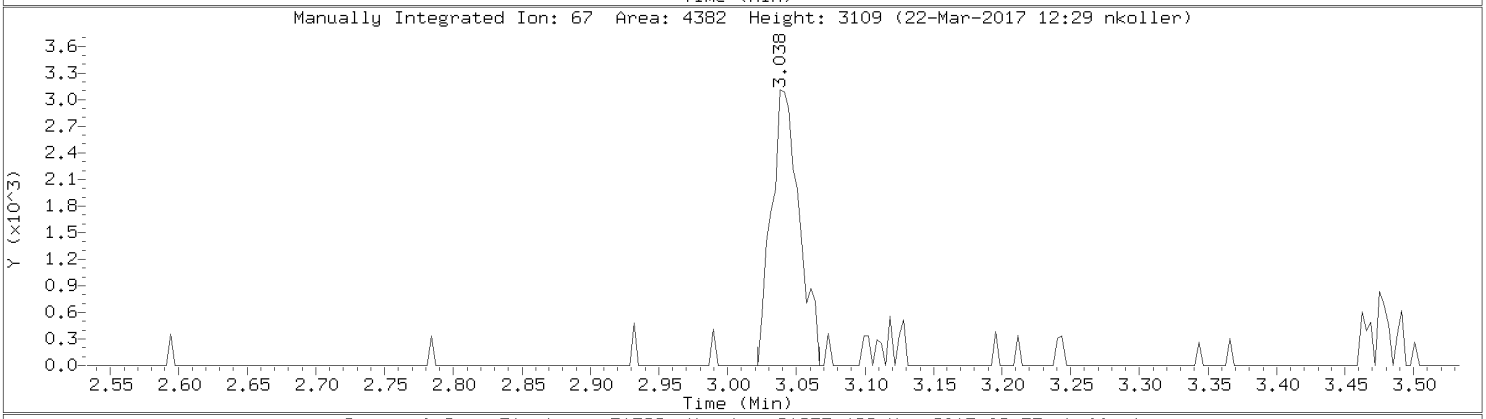
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08020.D
Injection Date: 21-MAR-2017 18:21
Instrument: 10airB.i
Lab Sample ID: 10381035010

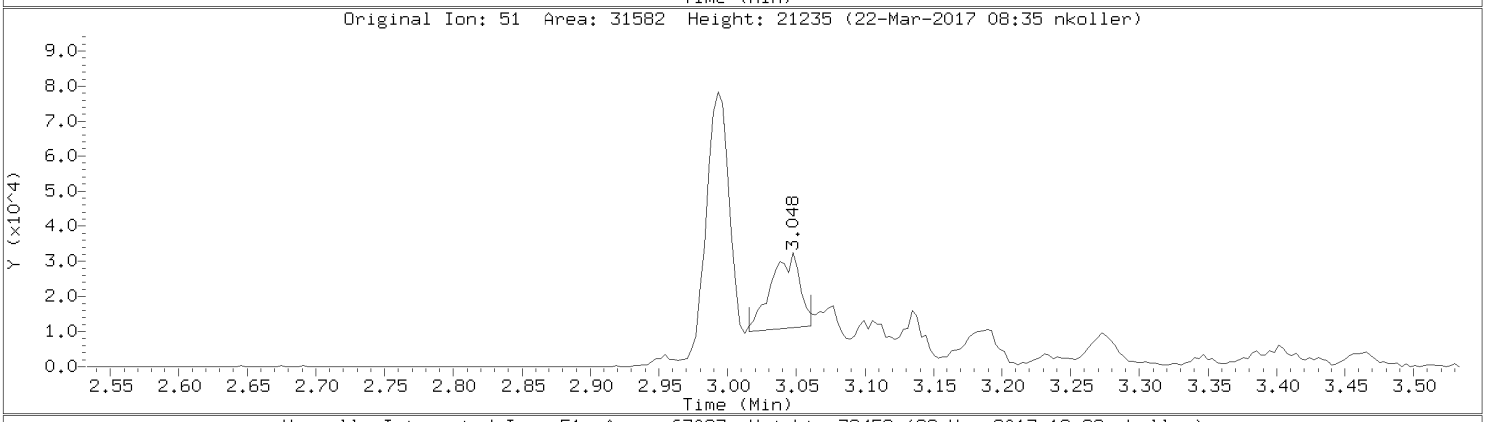


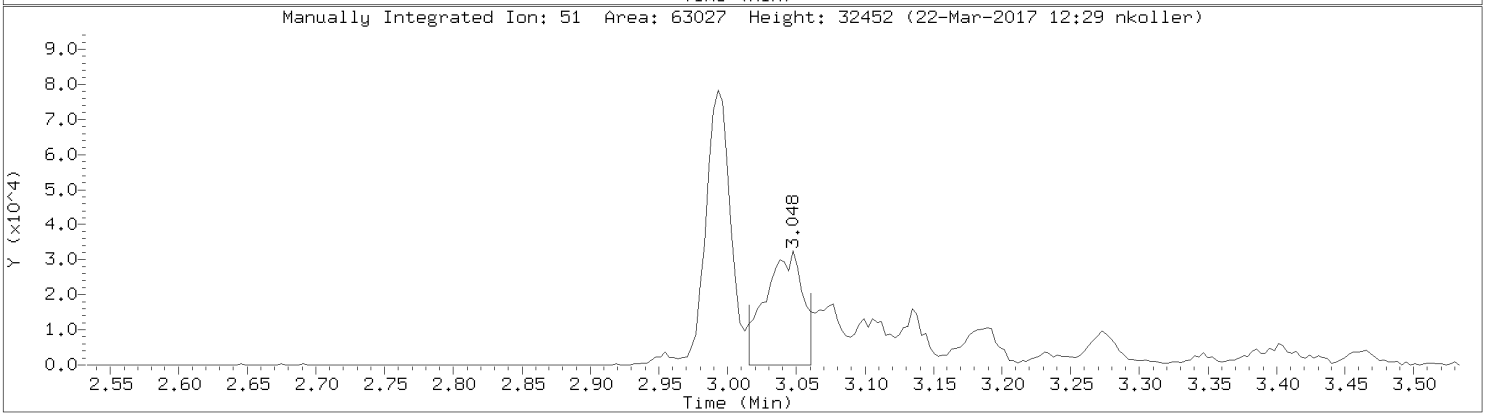
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08020.D
Injection Date: 21-MAR-2017 18:21
Instrument: 10airB.i
Lab Sample ID: 10381035010

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

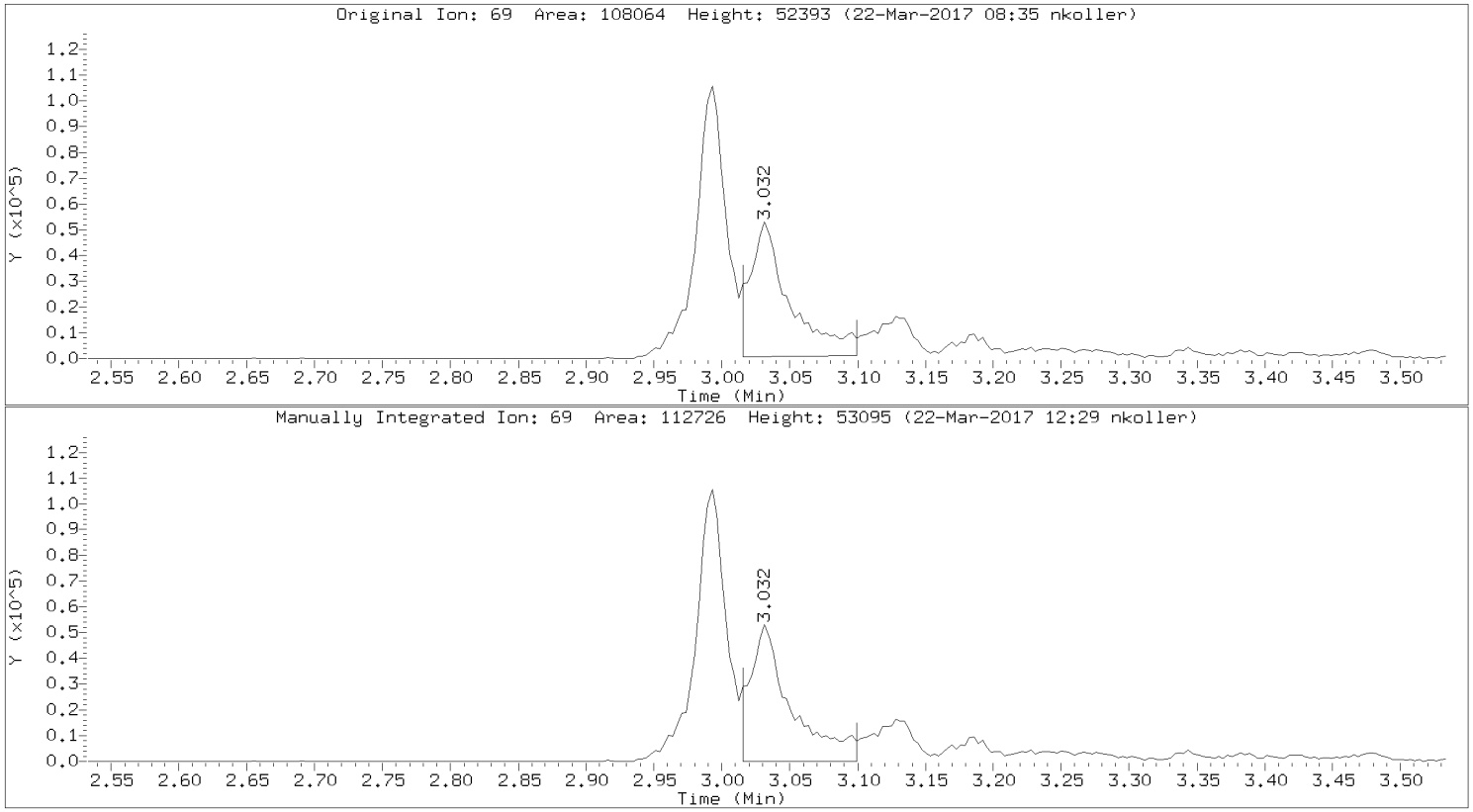








Data File: \\192.168.10.12\chem\10airB.i\032117.b/08020.D
Injection Date: 21-MAR-2017 18:21
Instrument: 10airB.i
Lab Sample ID: 10381035010



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_20_20170302 **Lab ID: 10381035011** Collected: 03/02/17 11:40 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**14.5**	ug/m3	4.2	1.5	1.75		03/21/17 18:53	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 18:53	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 18:53	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 18:53	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 18:53	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 18:53	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 18:53	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 18:53	78-93-3	
Carbon disulfide	**0.95J**	ug/m3	1.1	0.18	1.75		03/21/17 18:53	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 18:53	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 18:53	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 18:53	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 18:53	75-00-3	
Chloroform	**0.65J**	ug/m3	0.87	0.33	1.75		03/21/17 18:53	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 18:53	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 18:53	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 18:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 18:53	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 18:53	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 18:53	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 18:53	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 18:53	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 18:53	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 18:53	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 18:53	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 18:53	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 18:53	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/21/17 18:53	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 18:53	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 18:53	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 18:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 18:53	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 18:53	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 18:53	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 18:53	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 18:53	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.8	0.33	1.75		03/21/17 18:53	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 18:53	87-68-3	
n-Hexane	**1.6**	ug/m3	1.3	0.62	1.75		03/21/17 18:53	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 18:53	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 18:53	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 18:53	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 18:53	108-87-2	
Methylene Chloride	**10.8**	ug/m3	6.2	0.95	1.75		03/21/17 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 18:53	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 18:53	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D
Report Date: 22-Mar-2017 12:30

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08021.D
Lab Smp Id: 10381035011
Inj Date : 21-MAR-2017 18:53
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 21
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.552	3.545	(0.634)	120746	5.00845	8.76	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.590	3.603	(0.641)	113811	1.53186	2.68	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.661	3.677	(0.653)	18234	0.13993	0.245	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.725	3.722	(0.665)	358382	3.44310	6.03	
19	Isopropyl Alcohol	45	3.777	3.764	(0.674)	115799	0.96367	1.69	(M)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.941	3.951	(0.703)	17783	0.17911	0.313	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D
Report Date: 22-Mar-2017 12:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.989	4.005	(0.712)	149655	1.74889	3.06	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	4.114	4.127	(0.734)	18166	0.17139	0.300	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.491	4.491	(0.801)	2141642	9.70307	9.70	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.581	4.587	(0.818)	28429	0.25746	0.451(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.722	4.716	(0.843)	169307	1.08985	1.91(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	4.819	4.841	(0.860)	8782	0.07482	0.131	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	6439684	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.883	5.889	(1.050)	16647	0.12732	0.223	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.973	5.986	(1.066)	54838	0.63235	1.11	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5701677	9.61490	9.61	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.150	7.153	(1.276)	430997	2.00086	3.50	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.561	7.581	(0.875)	15444	0.10068	0.176(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.982	7.986	(0.924)	49671	0.52463	0.918	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	4173795	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.072	9.082	(1.050)	25468	0.27951	0.489	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.503	9.507	(1.100)	2617	0.14616	0.256	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D
Report Date: 22-Mar-2017 12:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.908	10.915	(1.263)	3292	0.17078	0.299	
79	1,3,5-Trimethylbenzene	105	10.995	10.998	(1.273)	2493	0.15072	0.264(QM)	
80	n-Decane	57	11.378	11.381	(2.031)	89170	0.69116	1.21(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.506	11.510	(1.332)	8148	0.16675	0.292	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	1950114	9.68211	9.68	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.162	14.156	(1.639)	3110	0.44976	0.787	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D
Report Date: 22-Mar-2017 12:30

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08021.D
Lab Smp Id: 10381035011
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

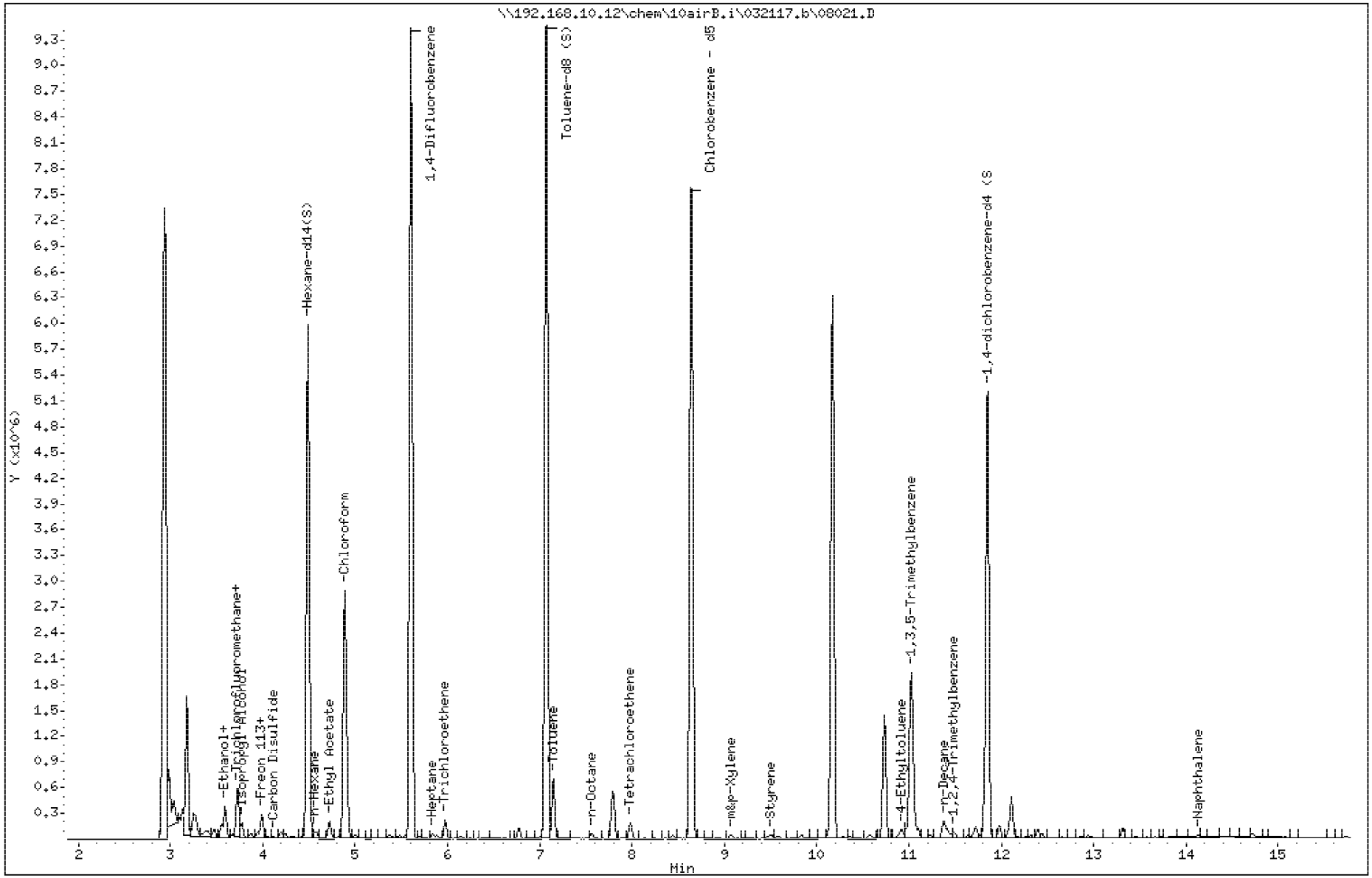
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6439684	-15.72
67 Chlorobenzene - d	5205948	3123569	7288327	4173795	-19.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D
Date : 21-MAR-2017 18:53
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

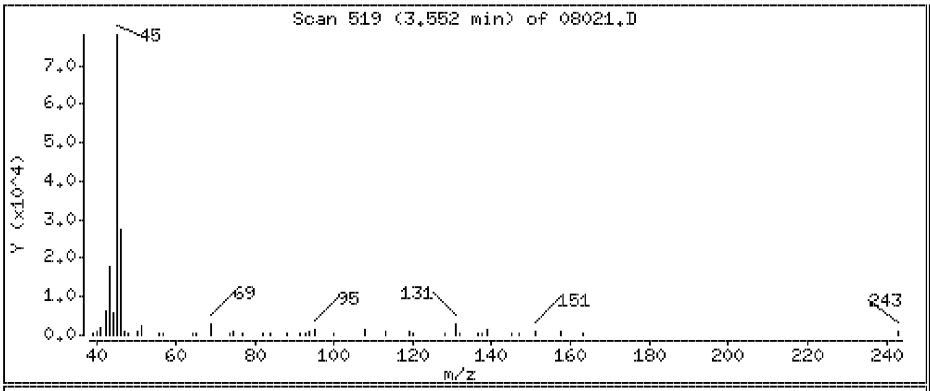
Operator: NCK

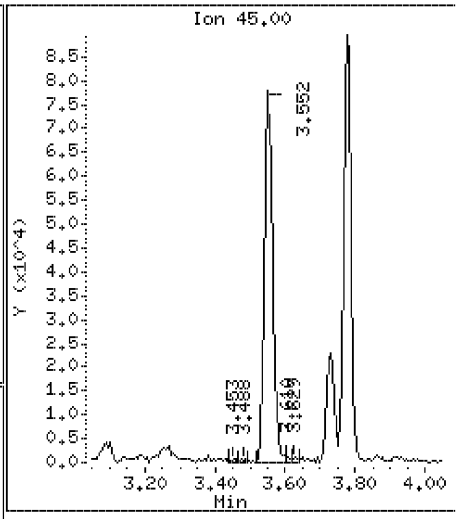
Column phase: J&W DB-5

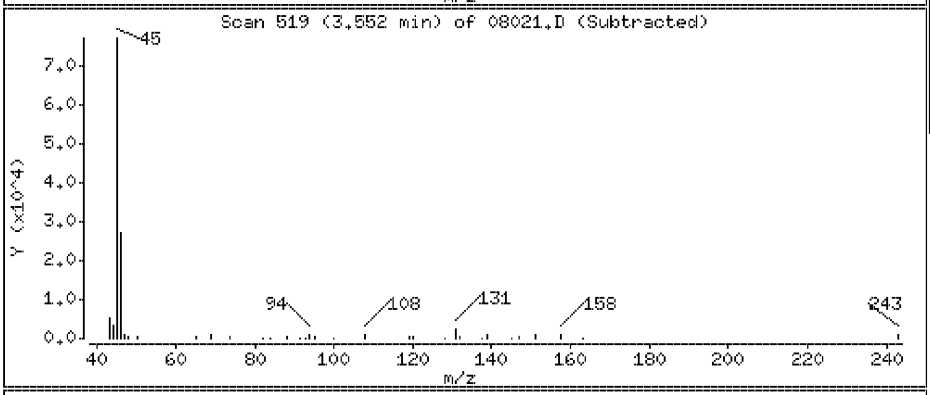
Column diameter: 0.32

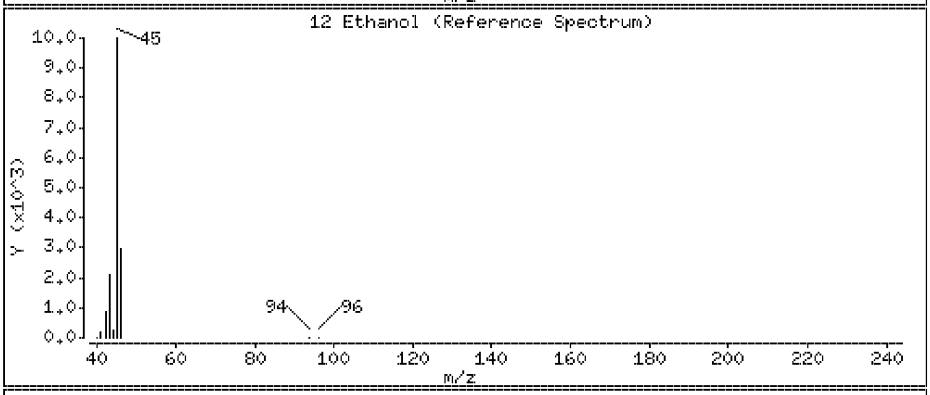
12 Ethanol

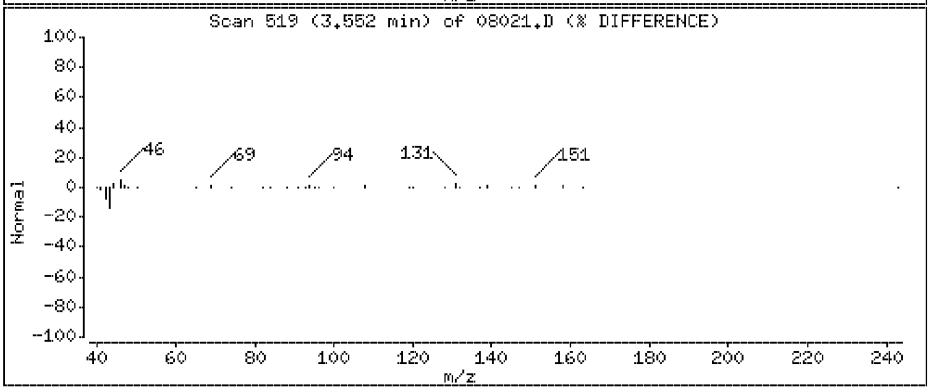
Concentration: 8.76 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

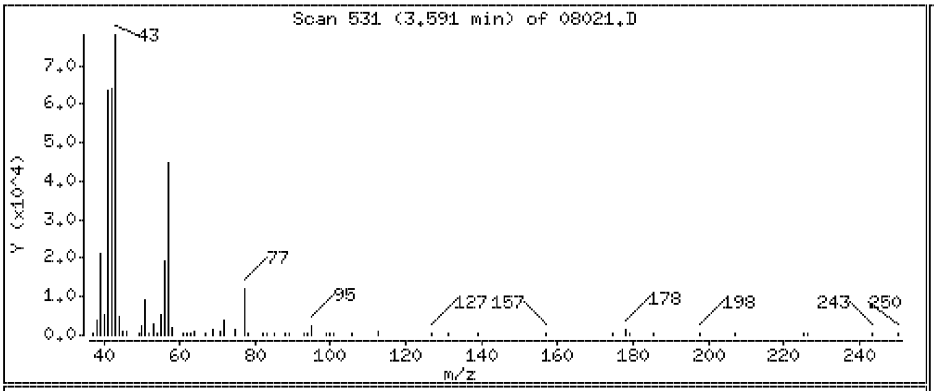
Operator: NCK

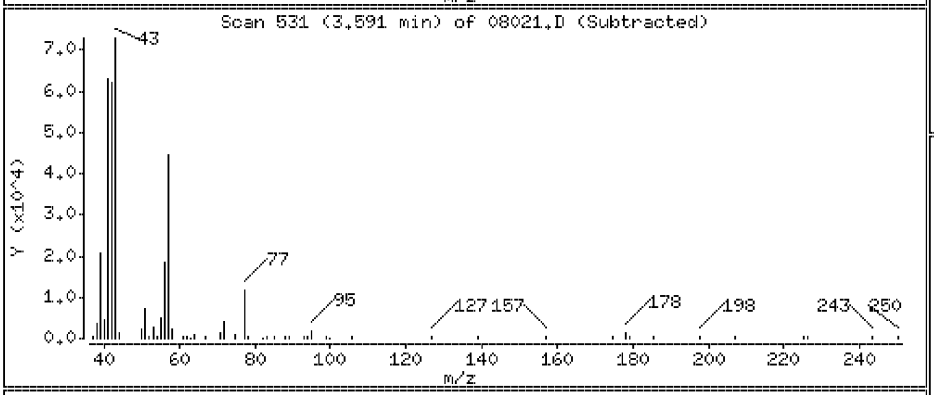
Column phase: J&W DB-5

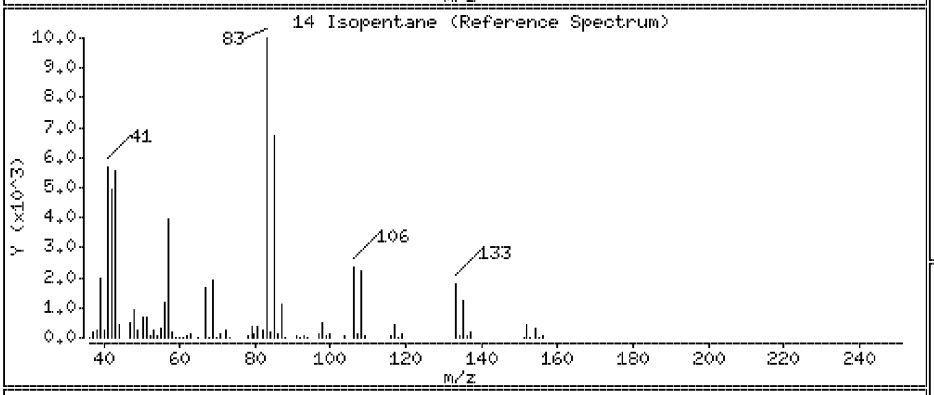
Column diameter: 0.32

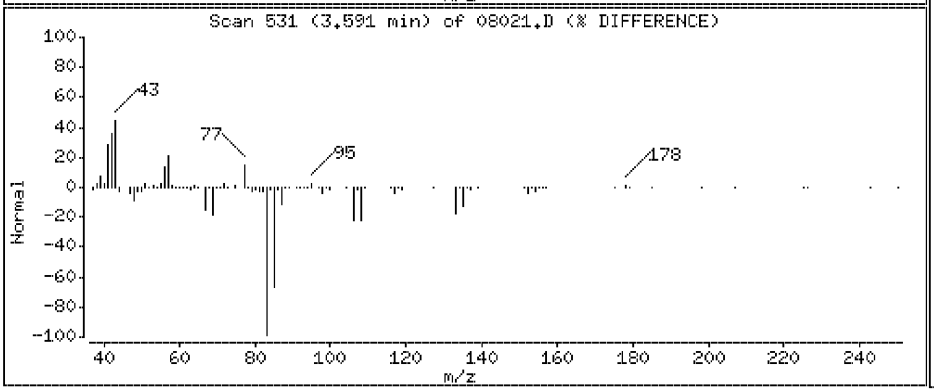
14 Isopentane

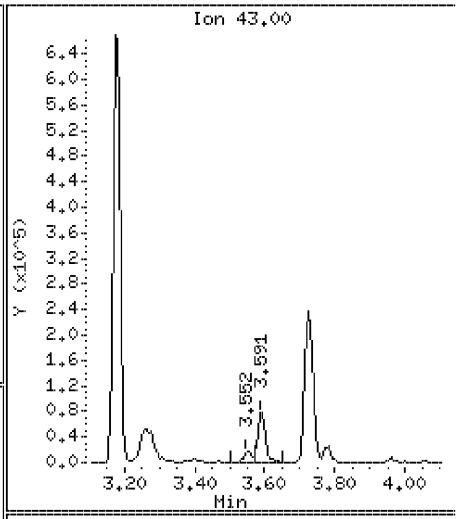
Concentration: 2.68 ppbv

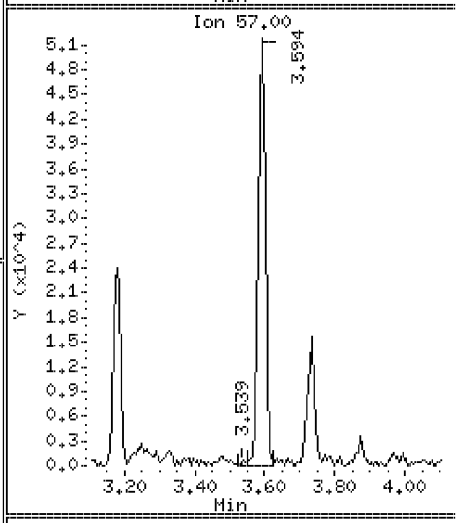


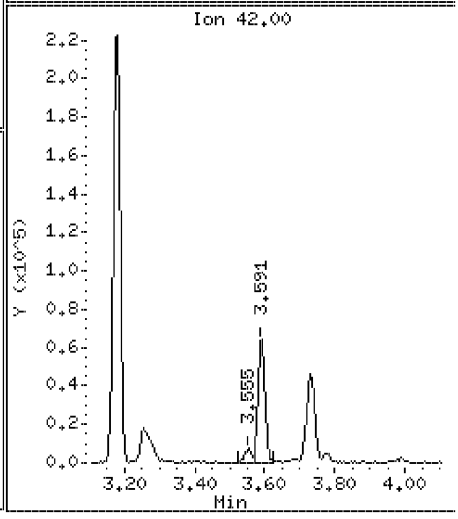












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

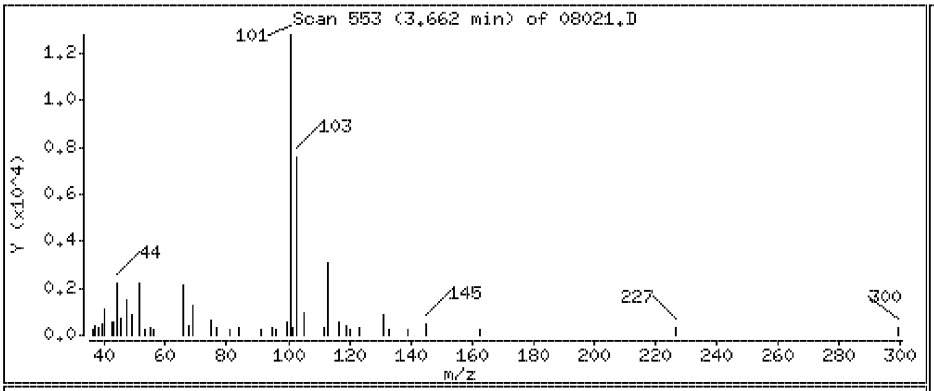
Operator: NCK

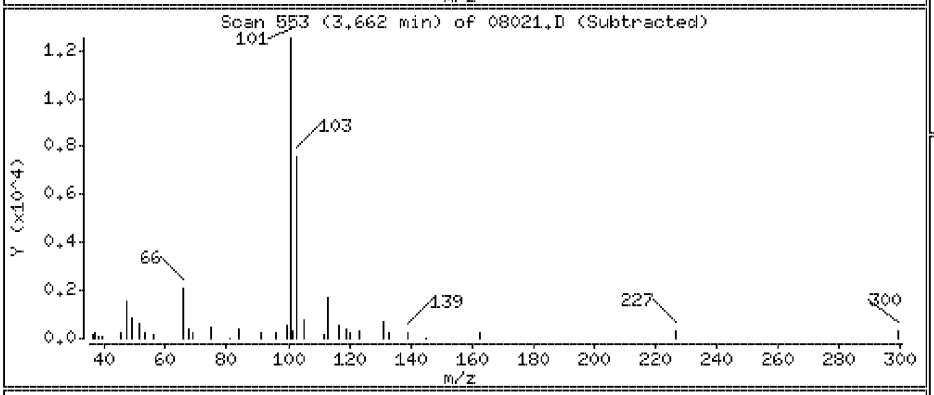
Column phase: J&W DB-5

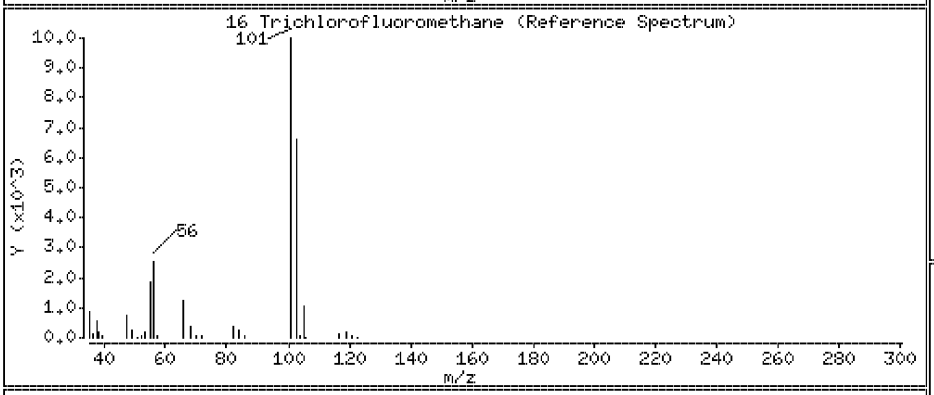
Column diameter: 0.32

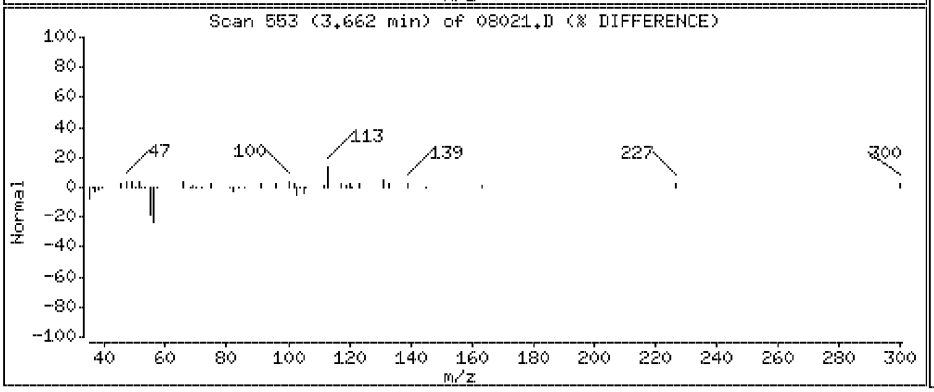
16 Trichlorofluoromethane

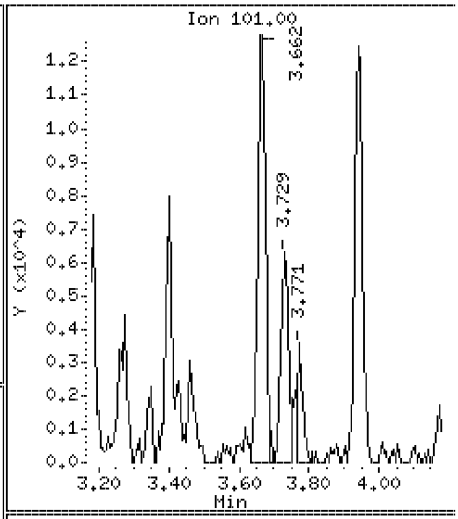
Concentration: 0.245 ppbv

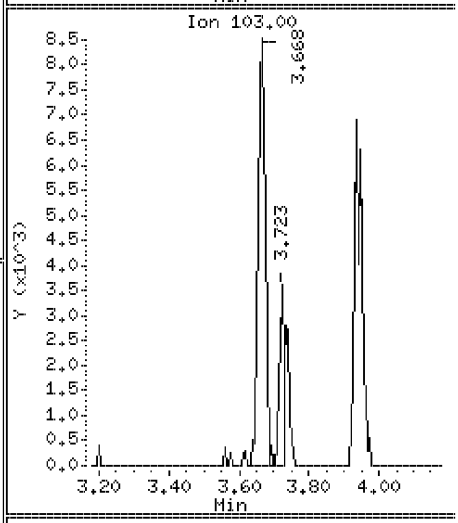


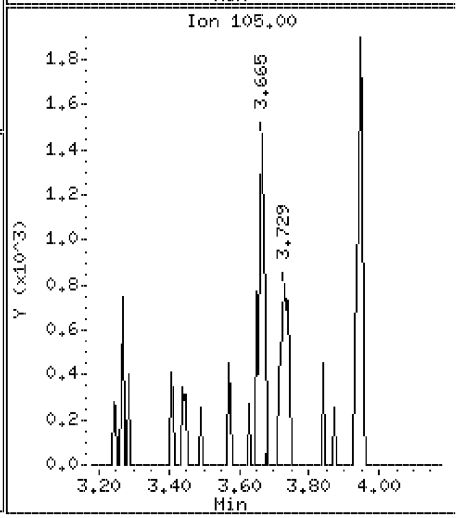












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

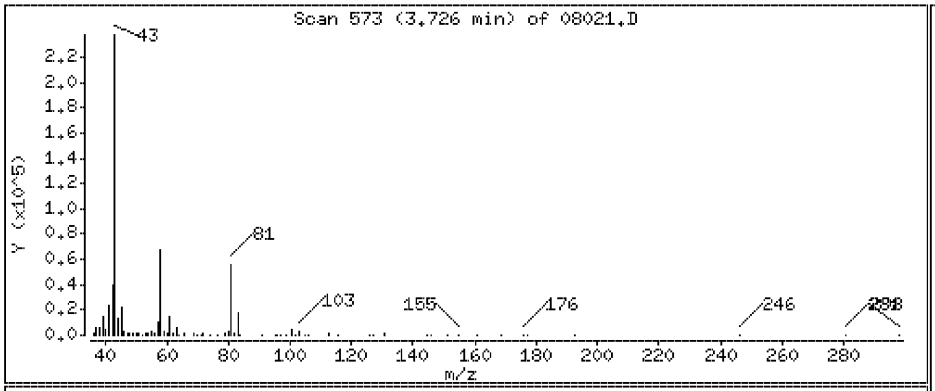
Operator: NCK

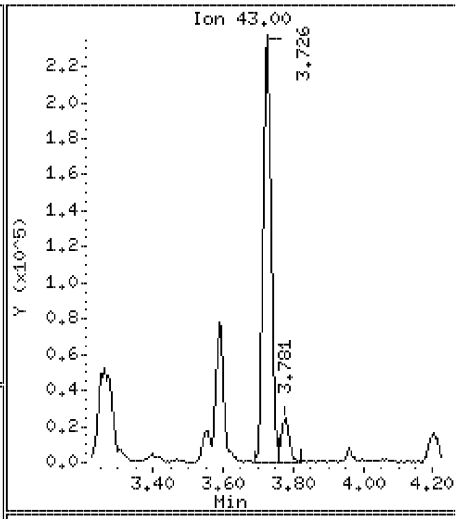
Column phase: J&W DB-5

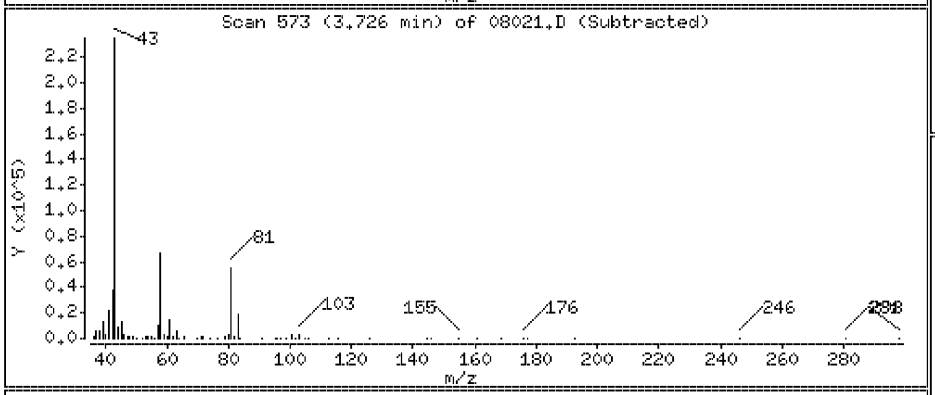
Column diameter: 0.32

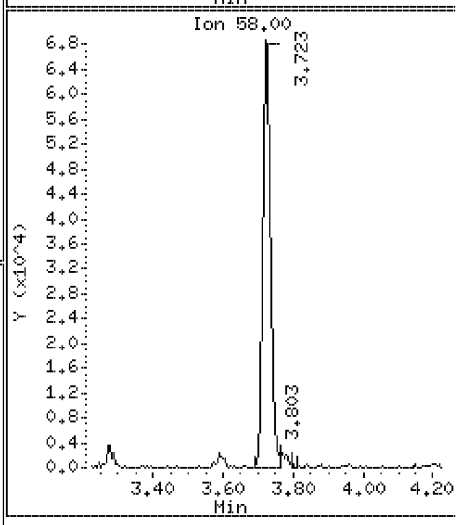
18 Acetone

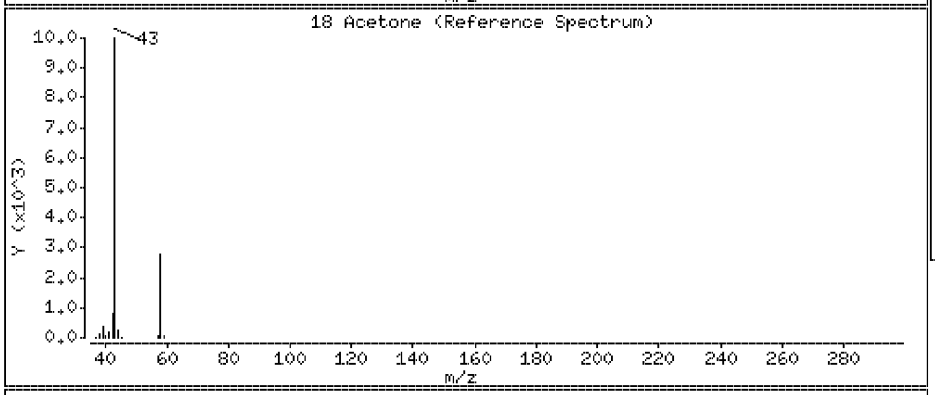
Concentration: 6.03 ppbv

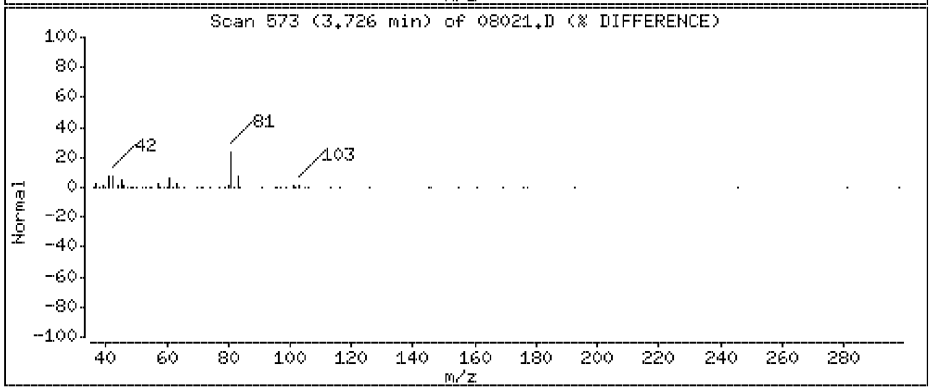












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

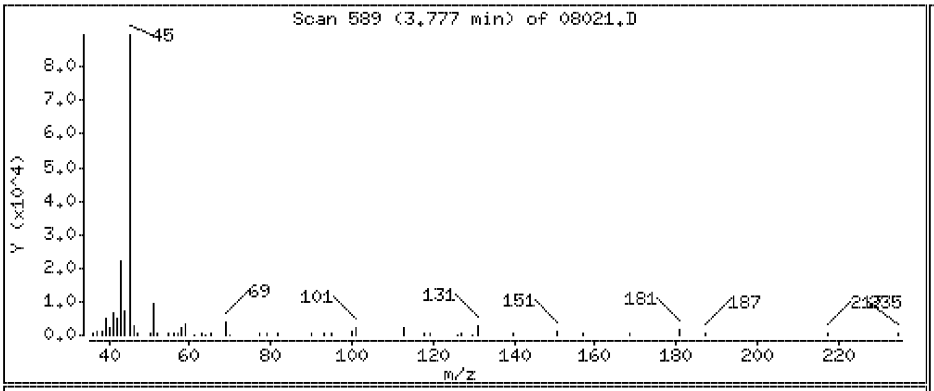
Operator: NCK

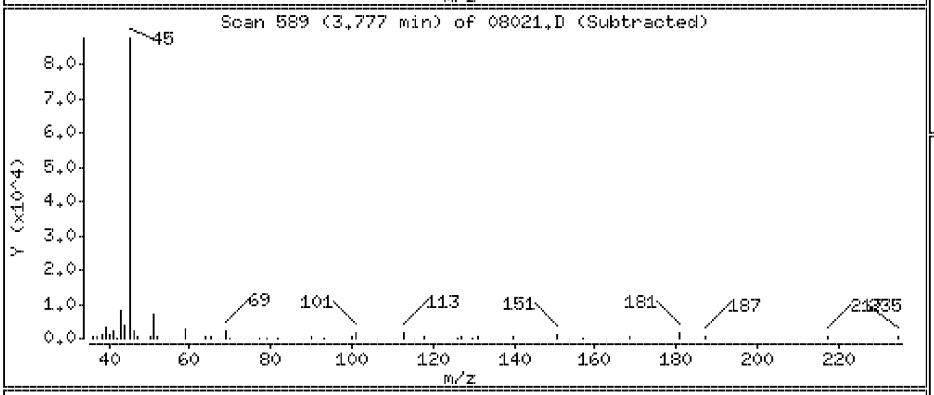
Column phase: J&W DB-5

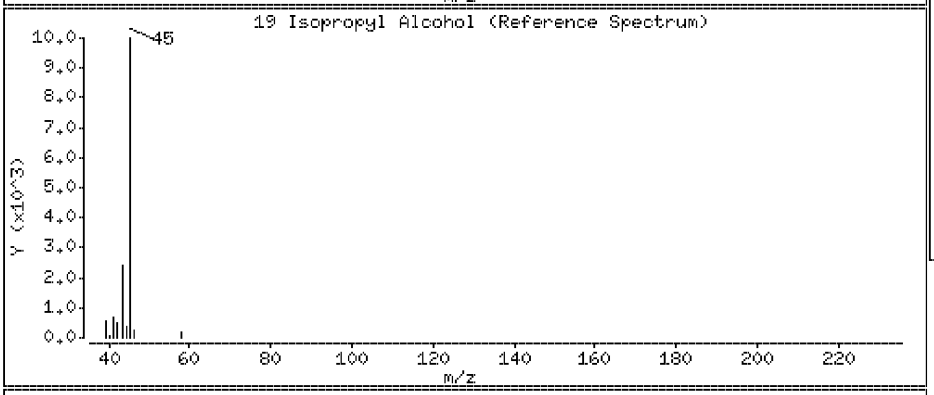
Column diameter: 0.32

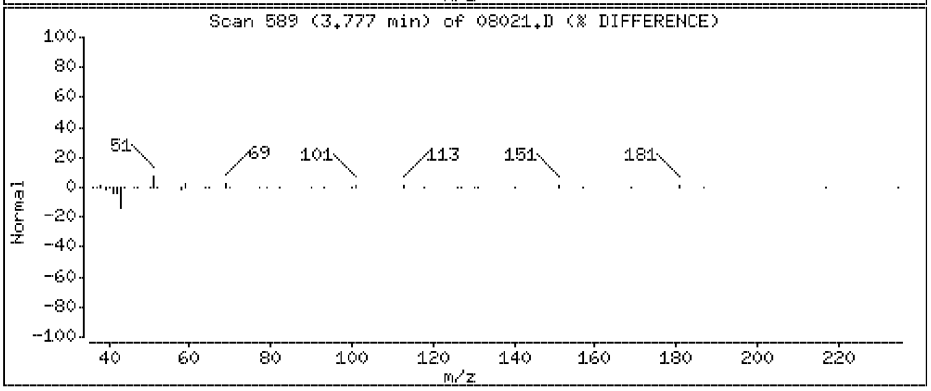
19 Isopropyl Alcohol

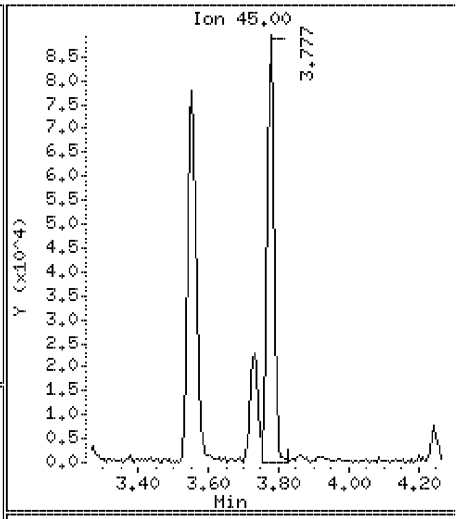
Concentration: 1.69 ppbv

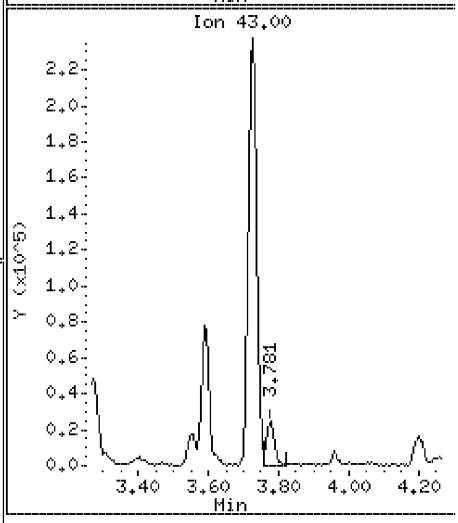












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

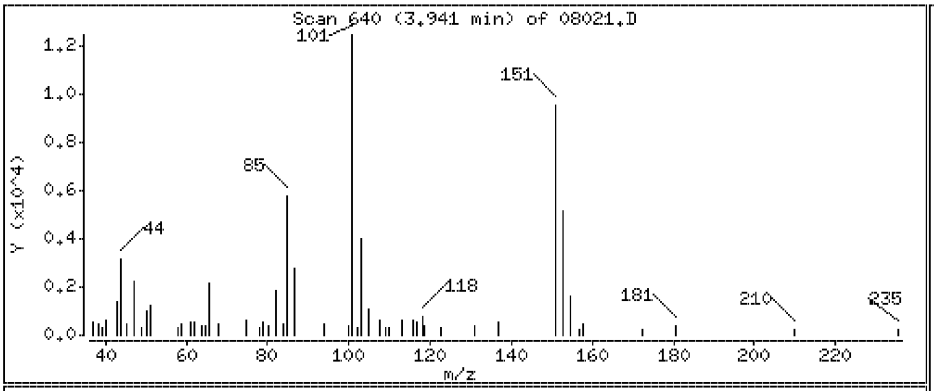
Operator: NCK

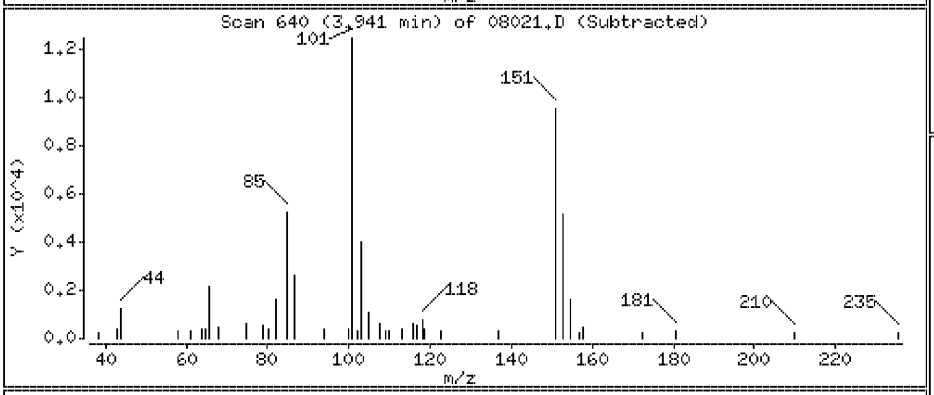
Column phase: J&W DB-5

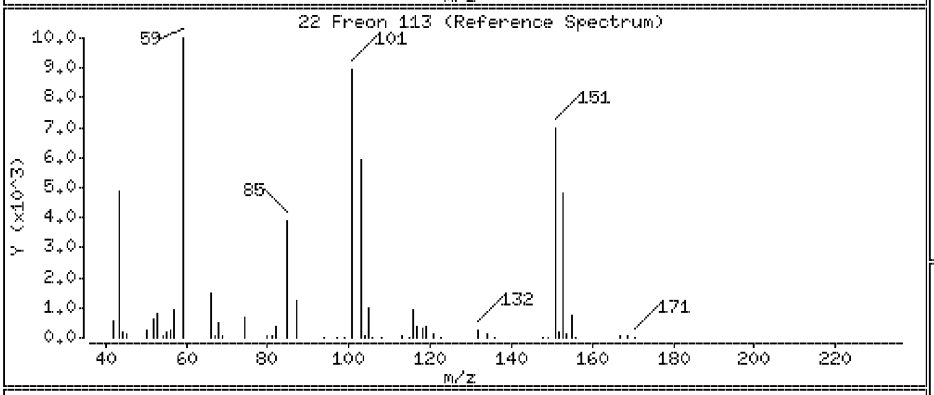
Column diameter: 0.32

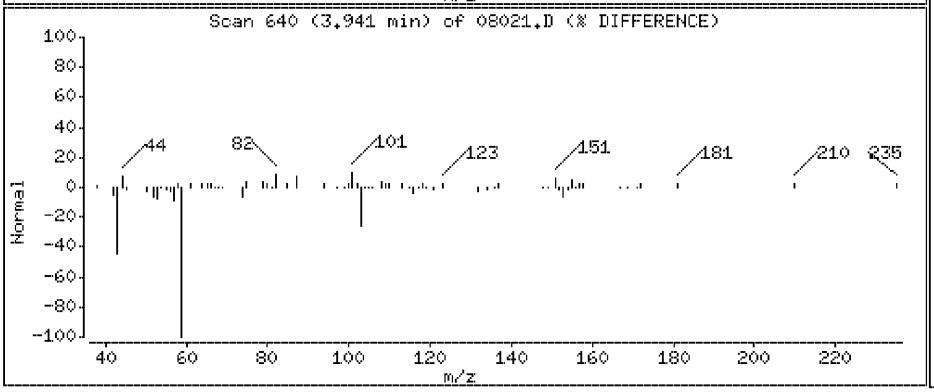
22 Freon 113

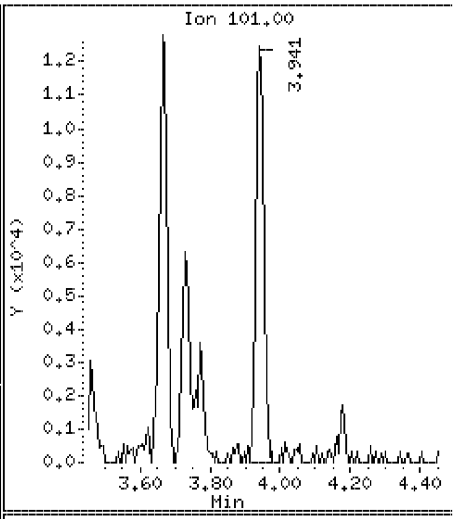
Concentration: 0.313 ppbv

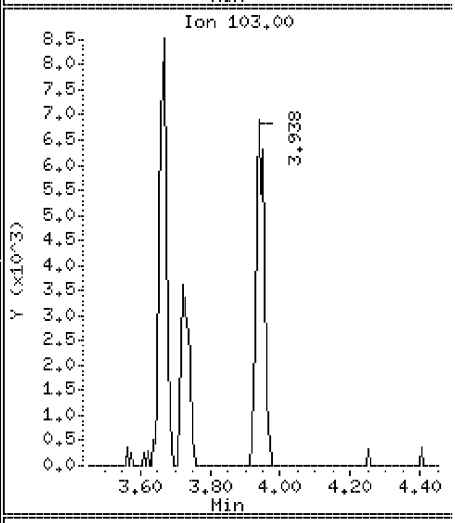


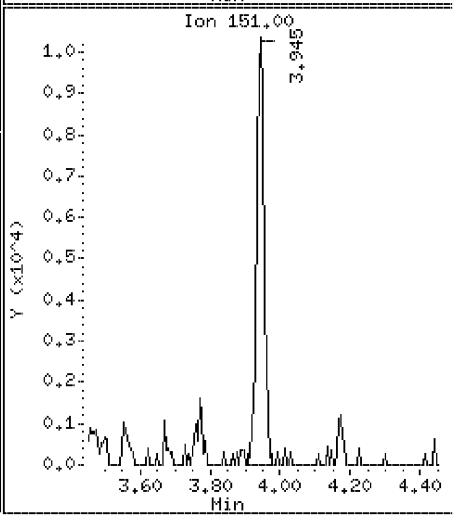












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

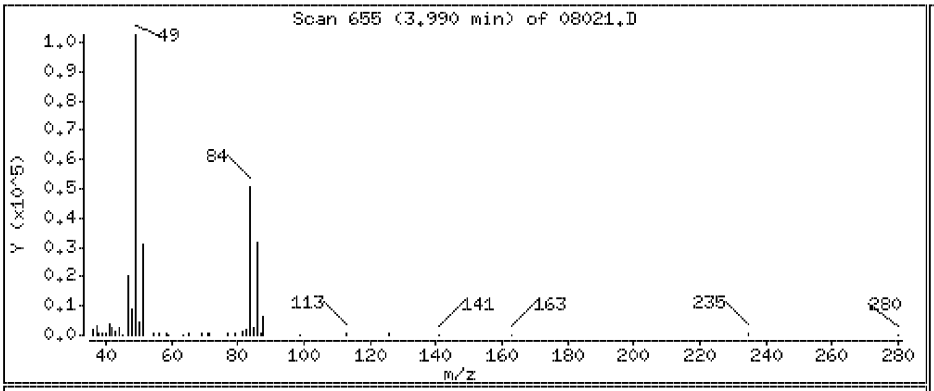
Operator: NCK

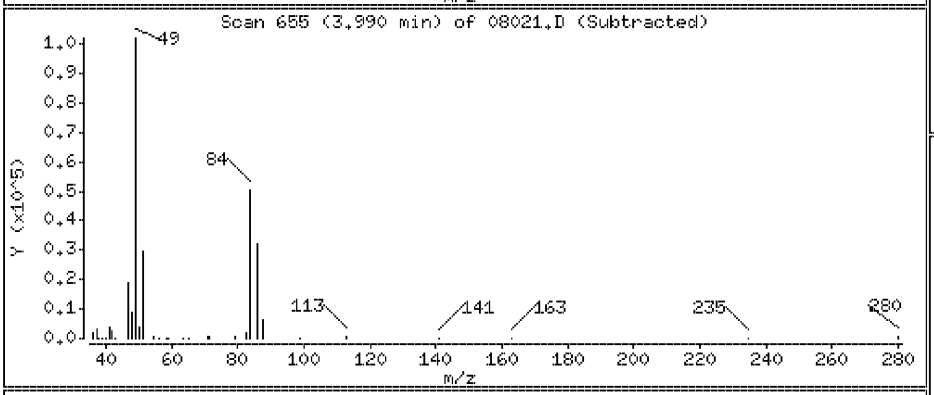
Column phase: J&W DB-5

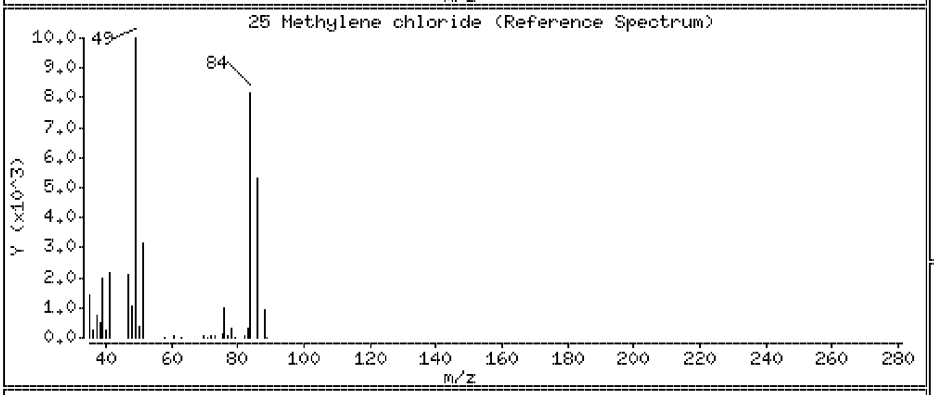
Column diameter: 0.32

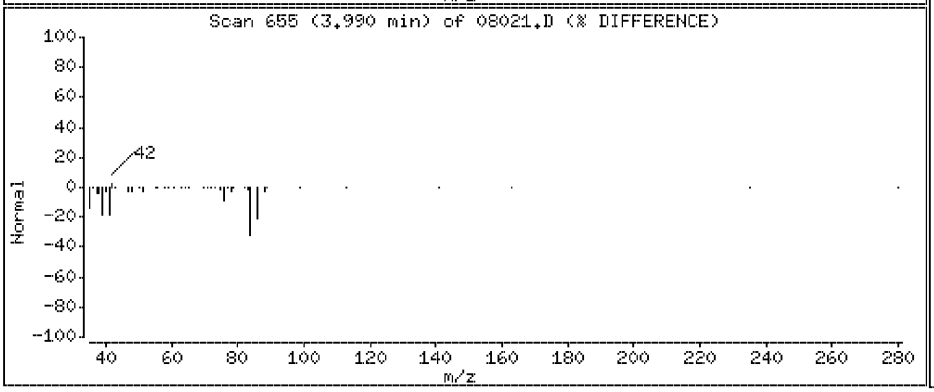
25 Methylene chloride

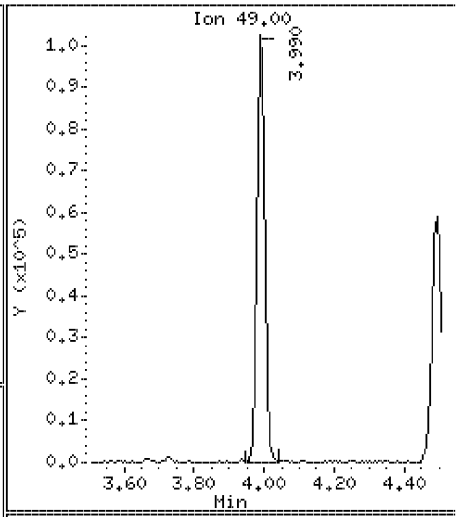
Concentration: 3.06 ppbv

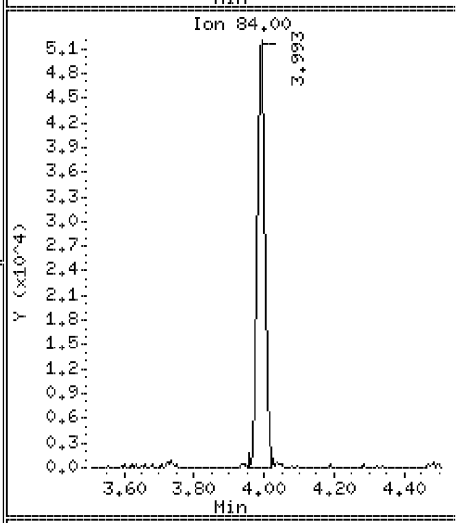


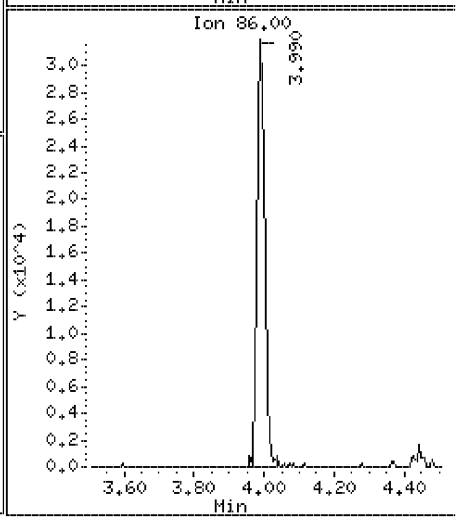












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

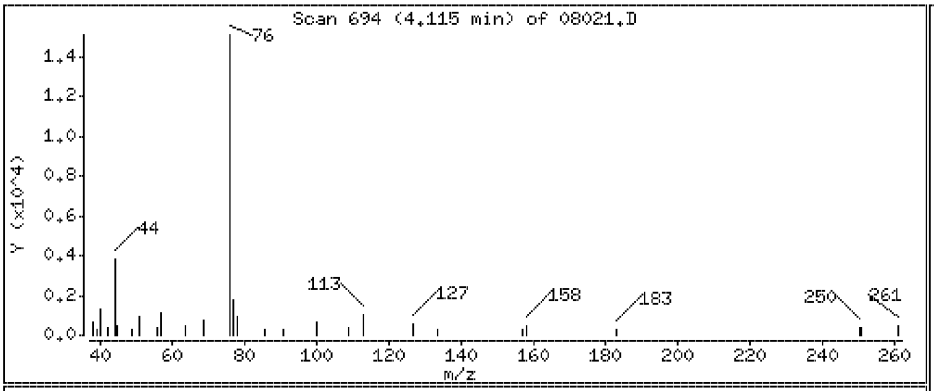
Operator: NCK

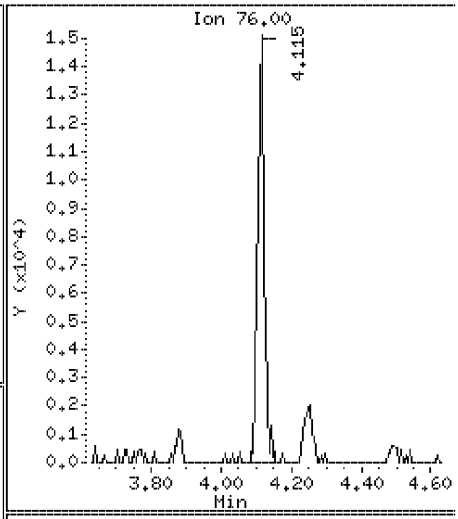
Column phase: J&W DB-5

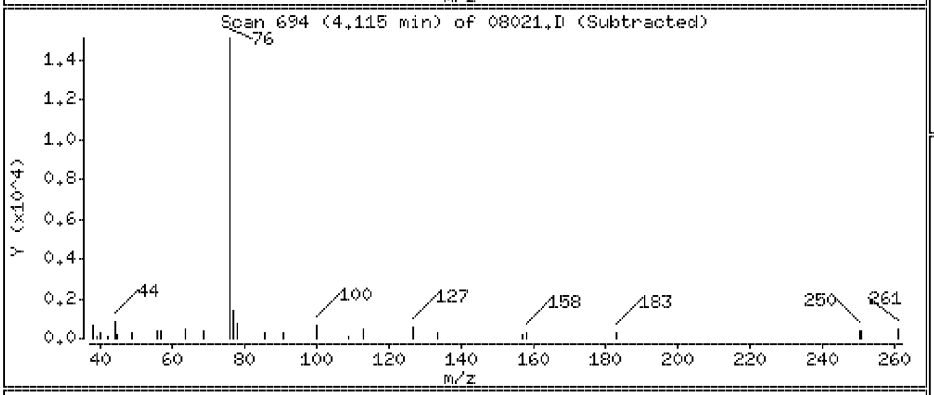
Column diameter: 0.32

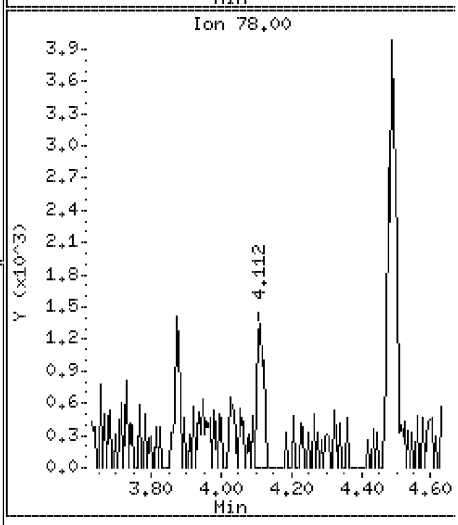
27 Carbon Disulfide

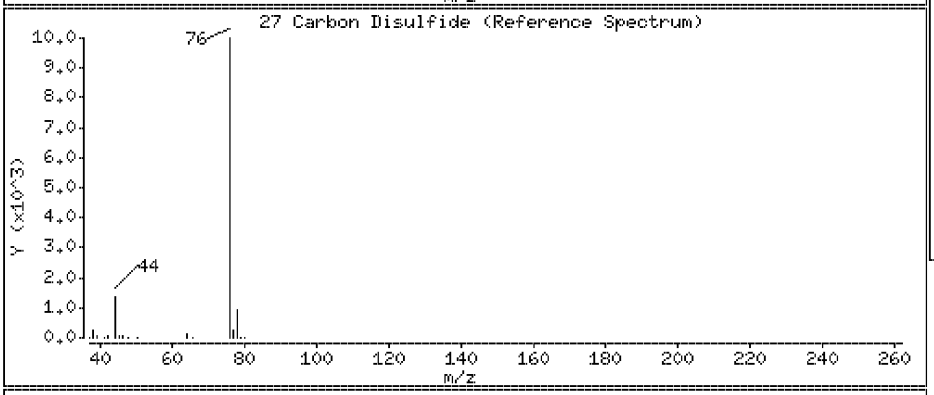
Concentration: 0.300 ppbv

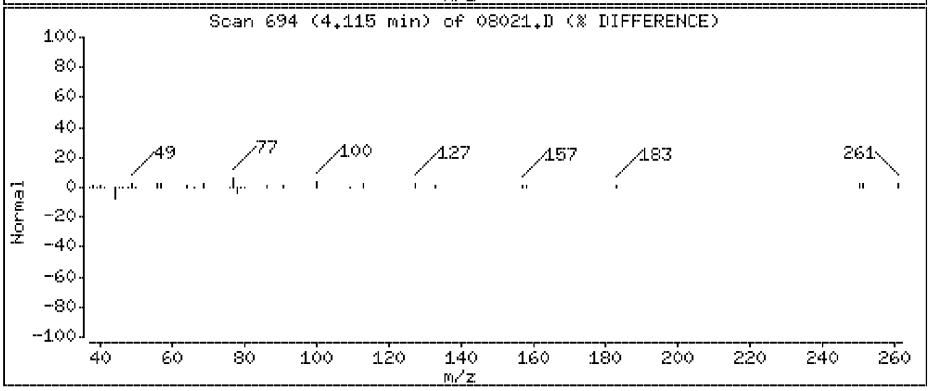












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

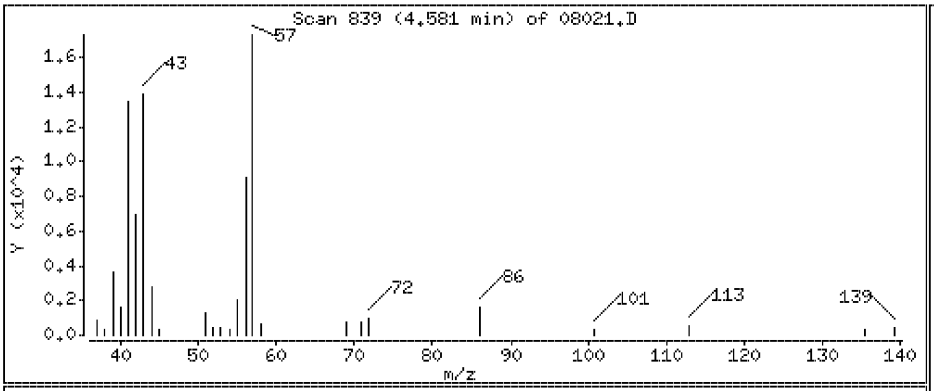
Operator: NCK

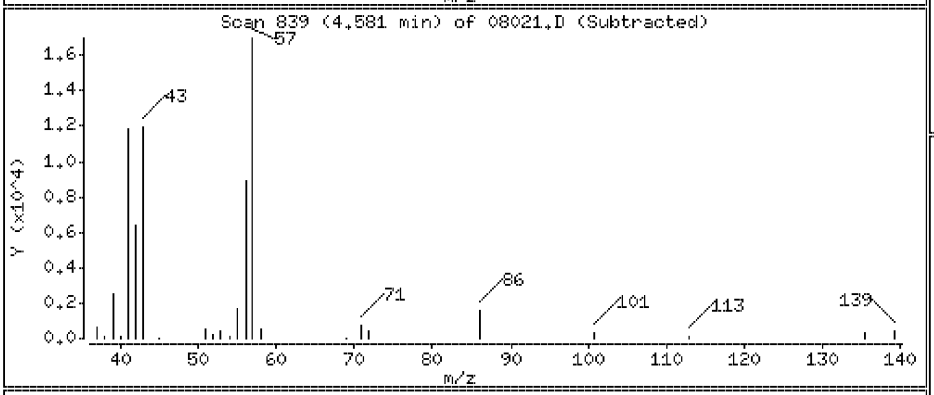
Column phase: J&W DB-5

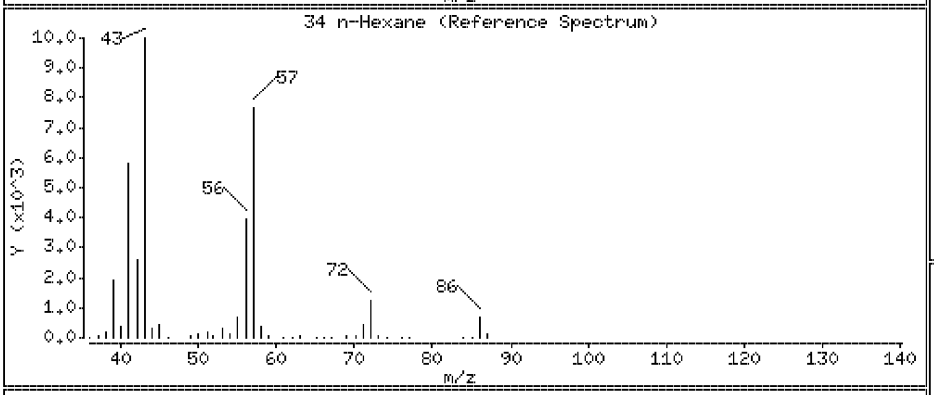
Column diameter: 0.32

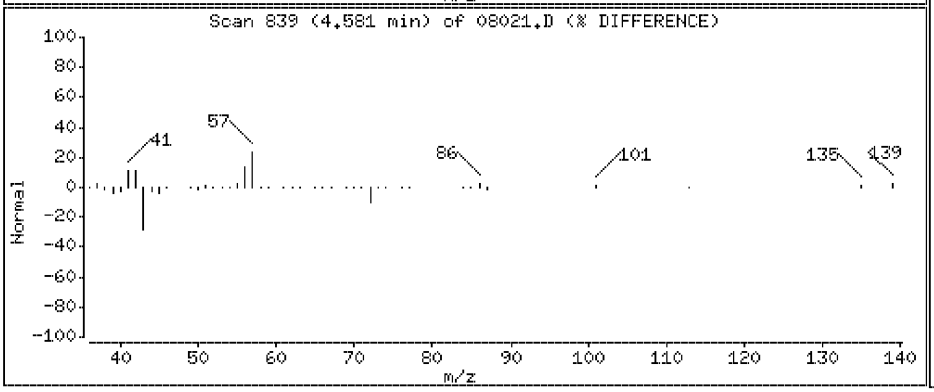
34 n-Hexane

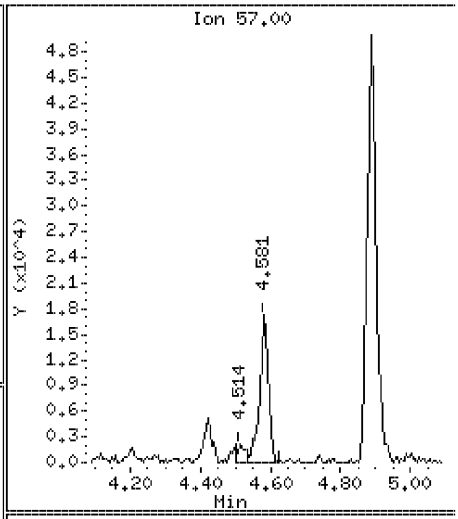
Concentration: 0.451 ppbv

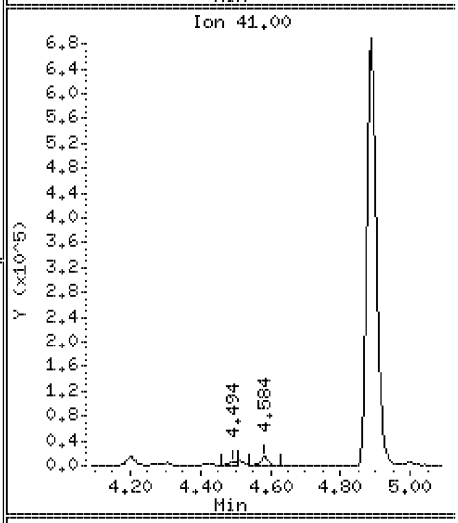


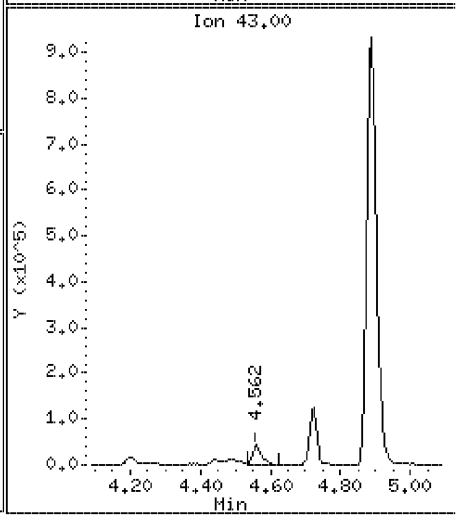












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

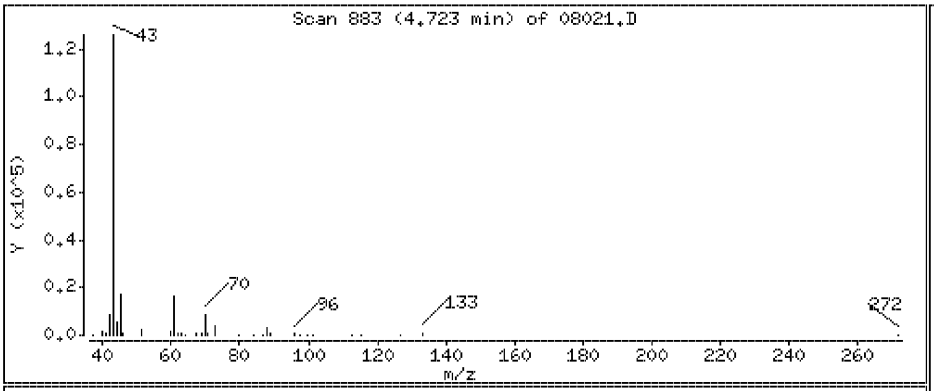
Operator: NCK

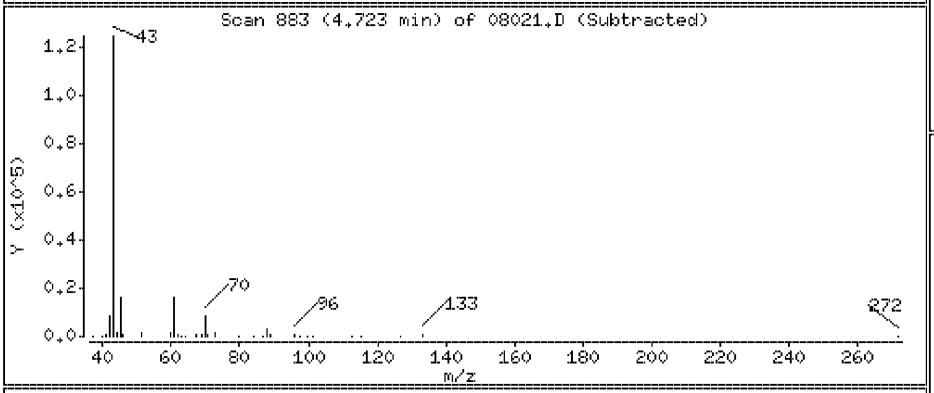
Column phase: J&W DB-5

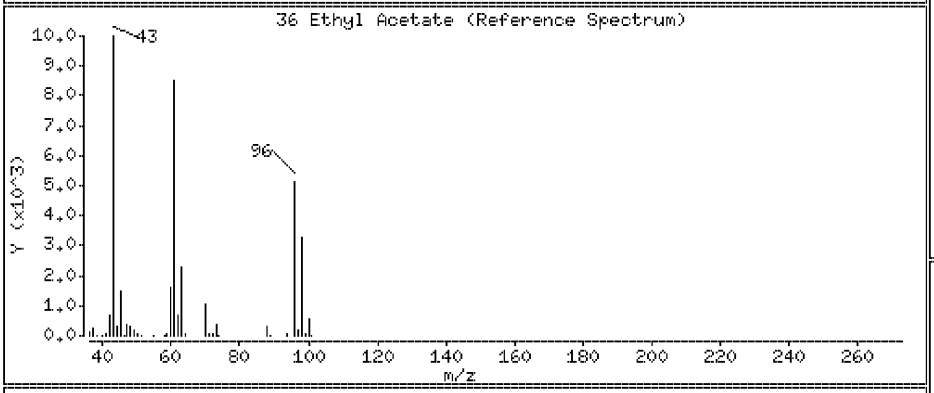
Column diameter: 0.32

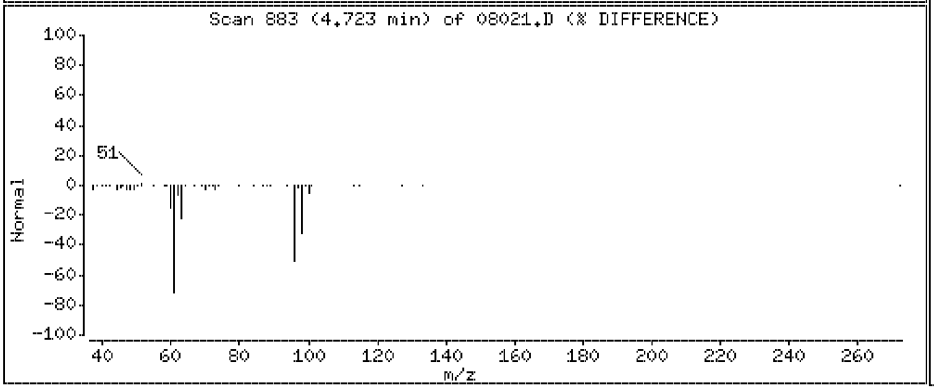
36 Ethyl Acetate

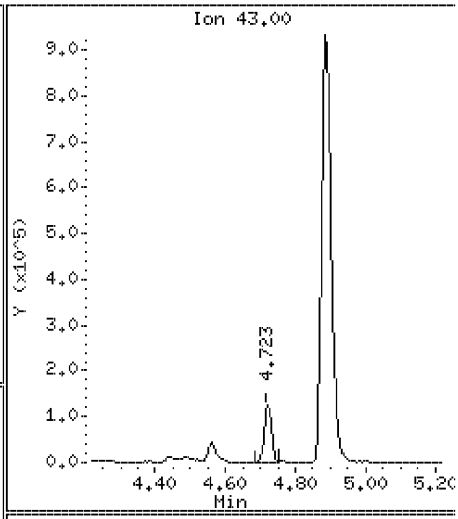
Concentration: 1.91 ppbv

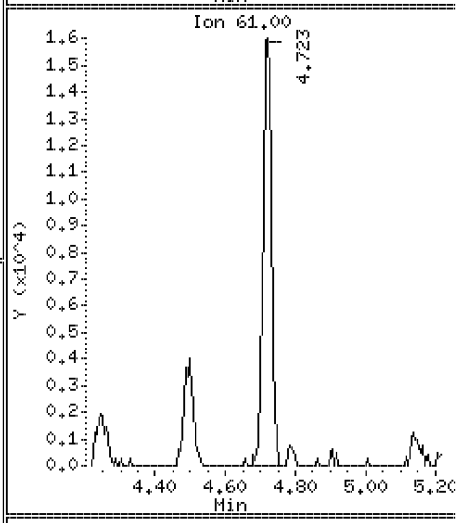


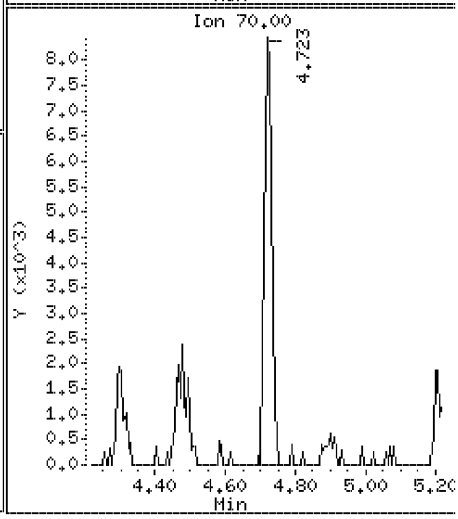












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

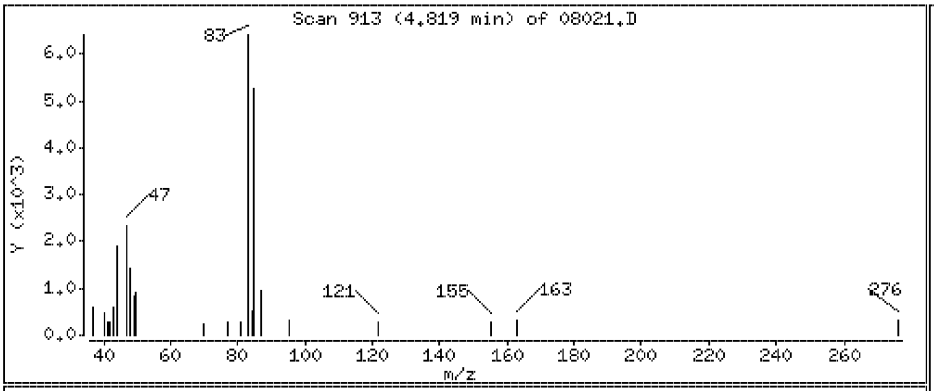
Operator: NCK

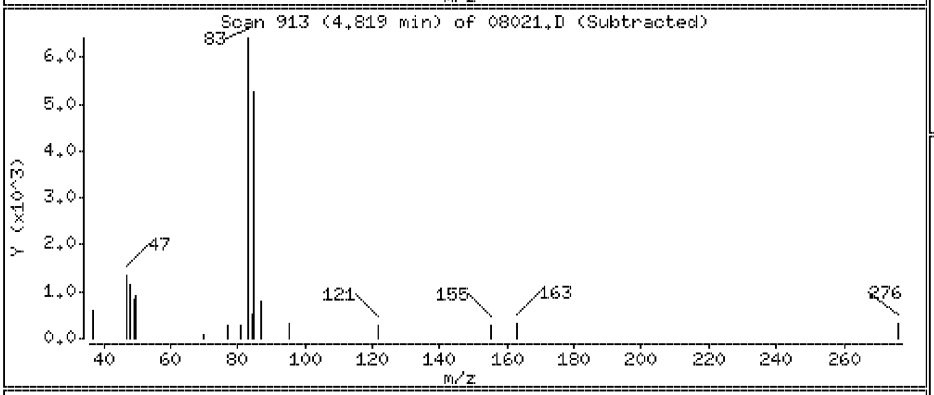
Column phase: J&W DB-5

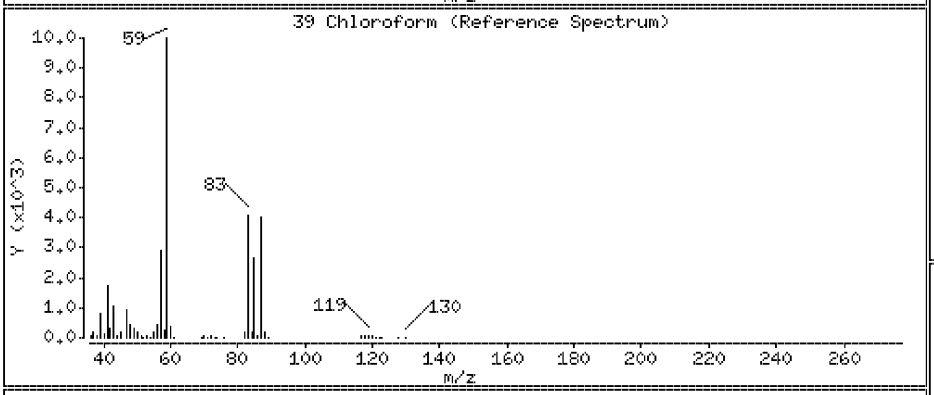
Column diameter: 0.32

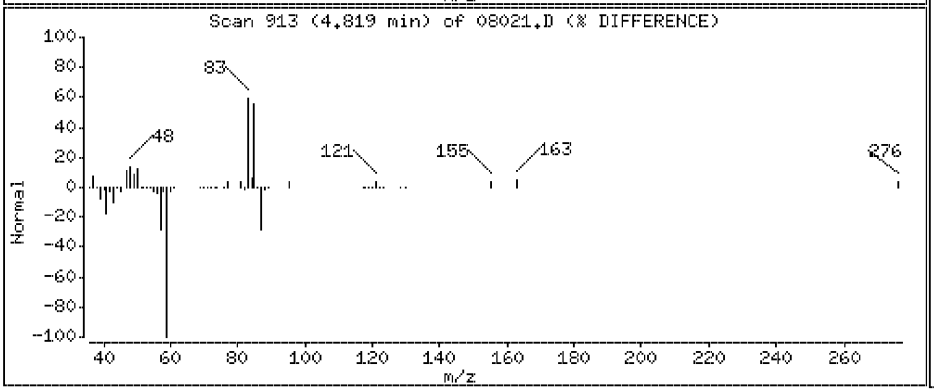
39 Chloroform

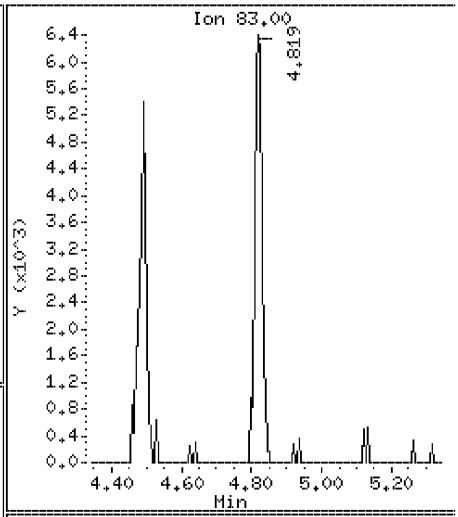
Concentration: 0.131 ppbv

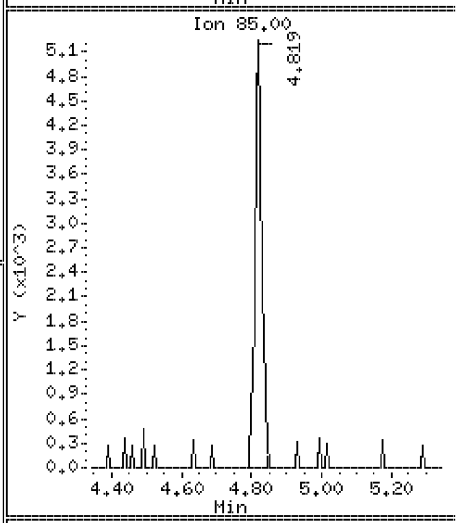


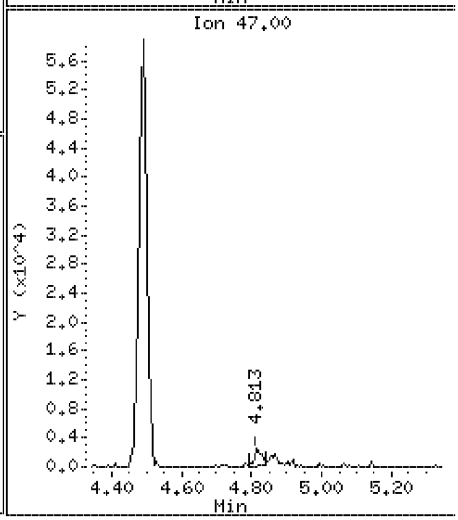












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

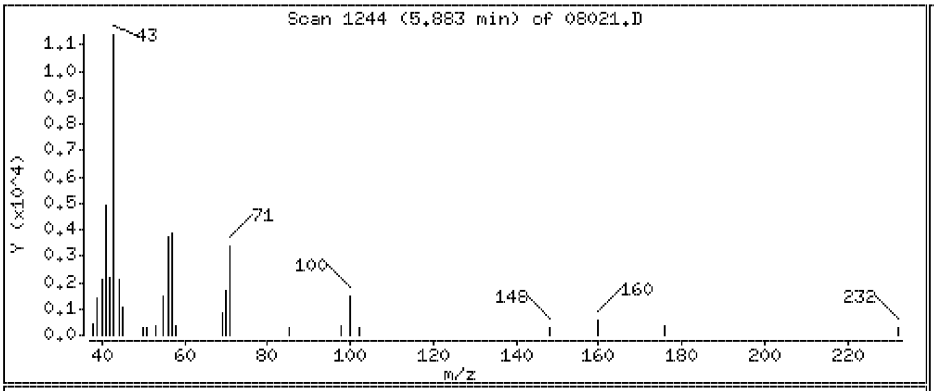
Operator: NCK

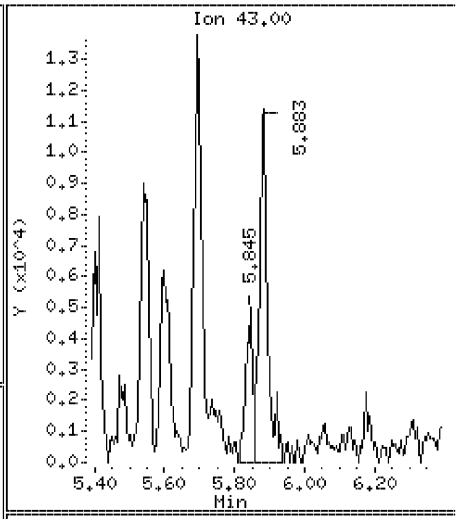
Column phase: J&W DB-5

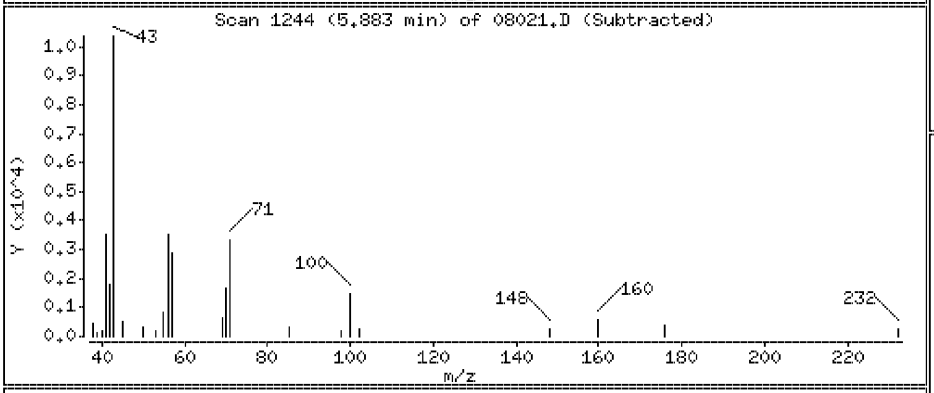
Column diameter: 0.32

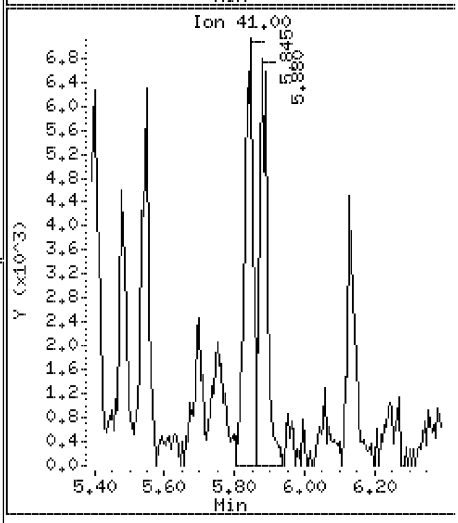
49 Heptane

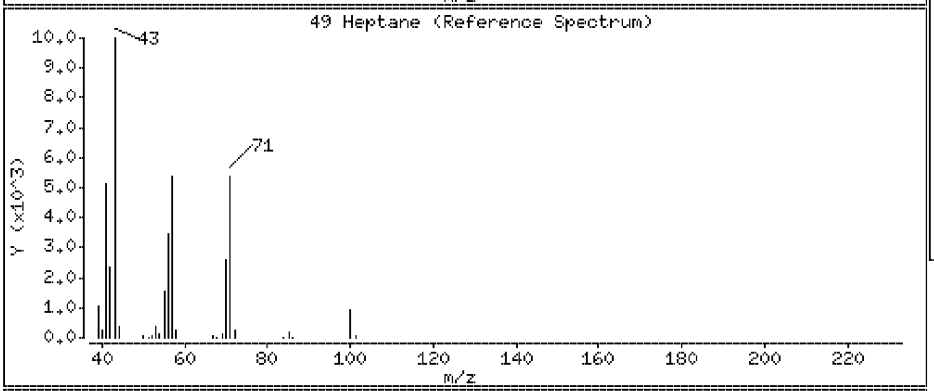
Concentration: 0.223 ppbv

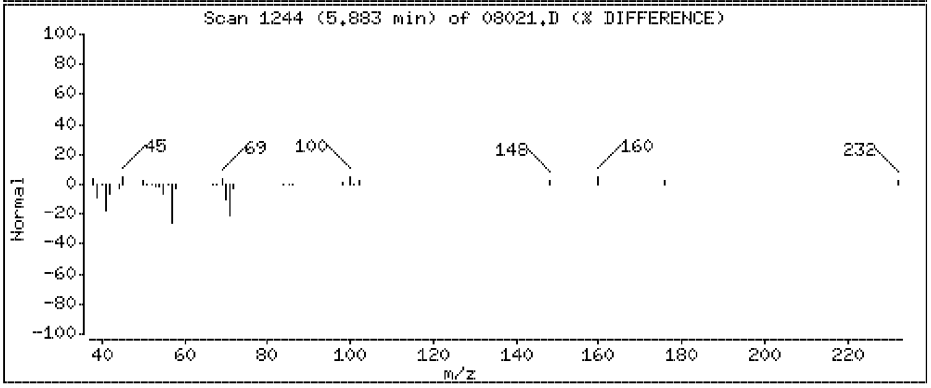












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

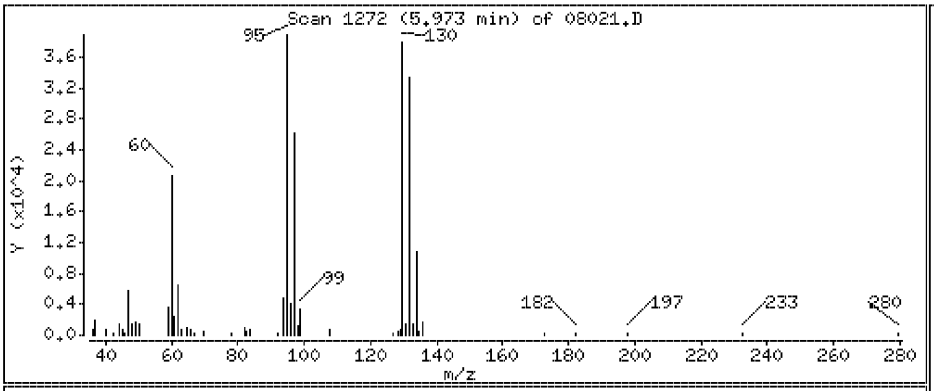
Operator: NCK

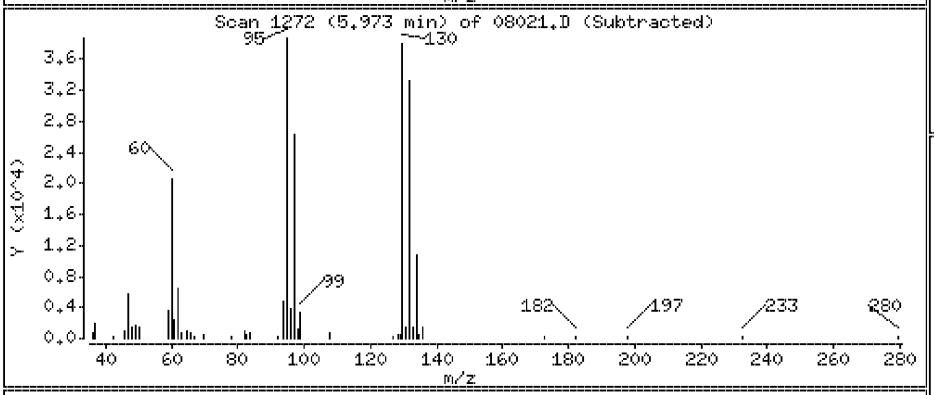
Column phase: J&W DB-5

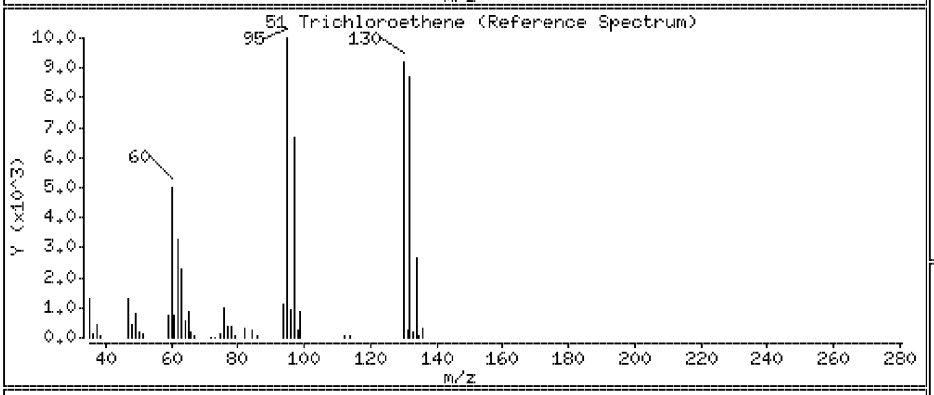
Column diameter: 0.32

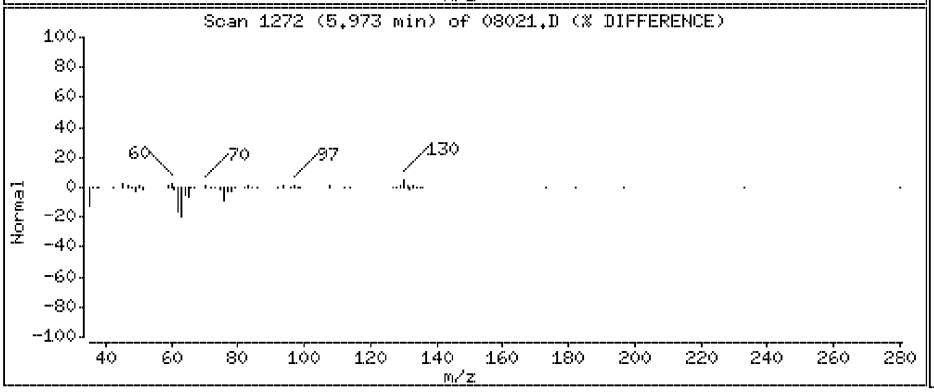
51 Trichloroethene

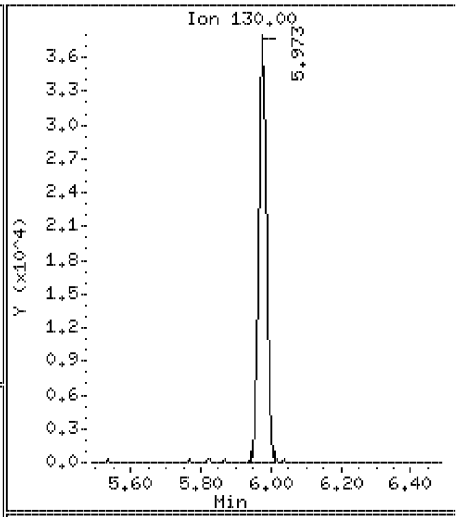
Concentration: 1.11 ppbv

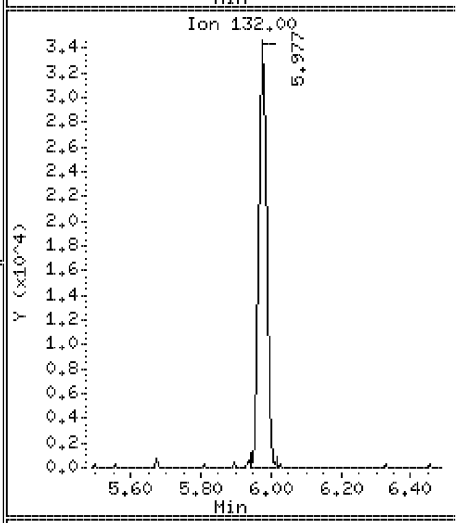


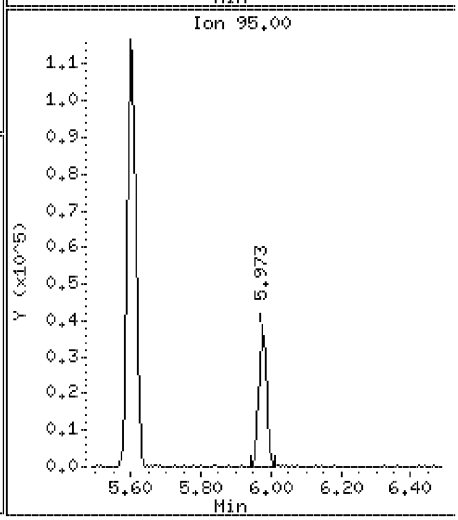












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

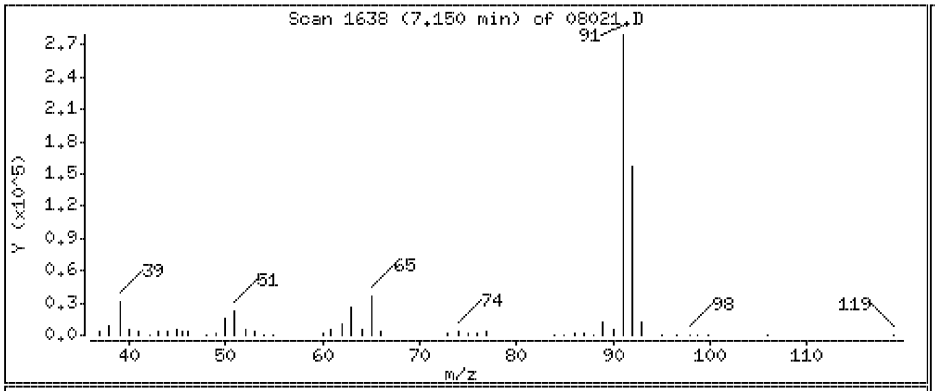
Operator: NCK

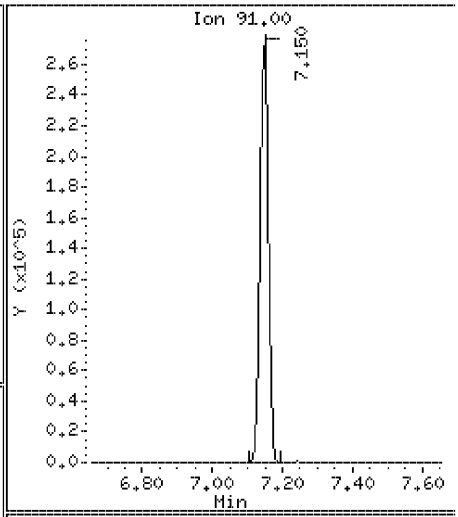
Column phase: J&W DB-5

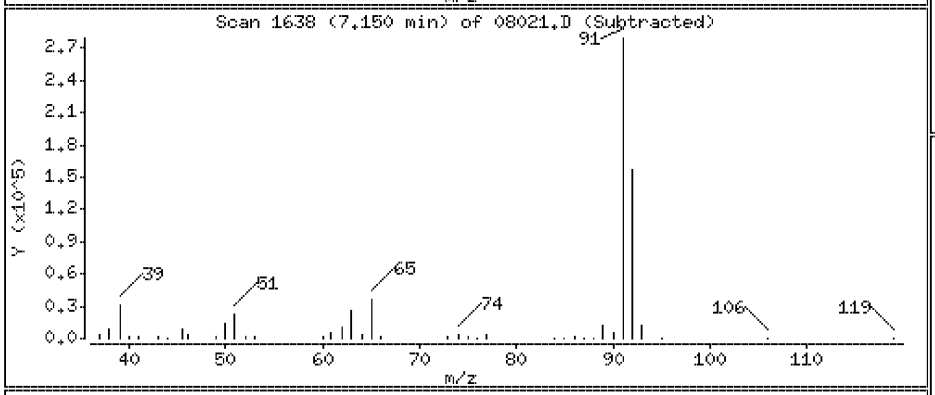
Column diameter: 0.32

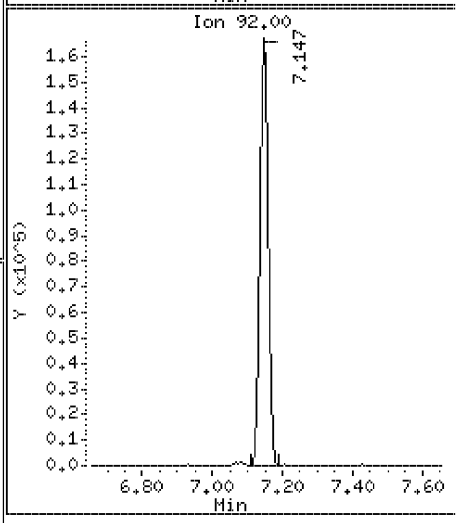
61 Toluene

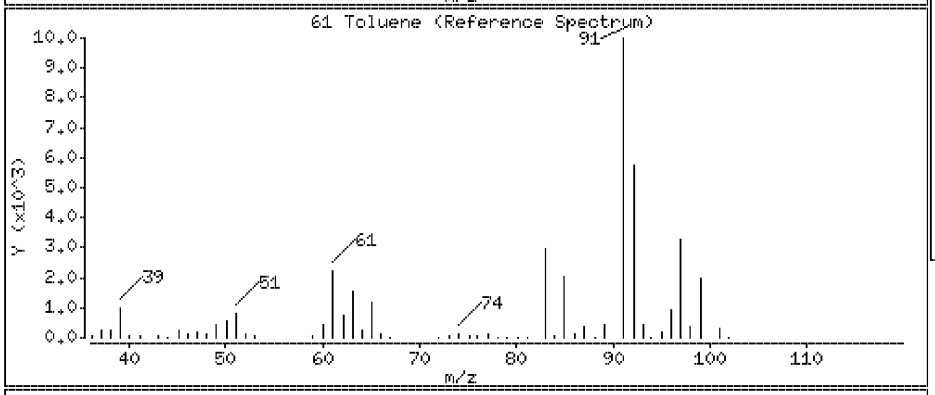
Concentration: 3.50 ppbv

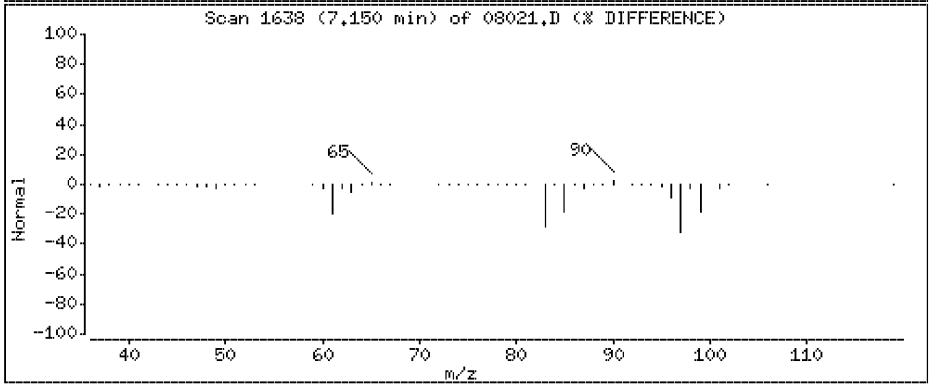












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

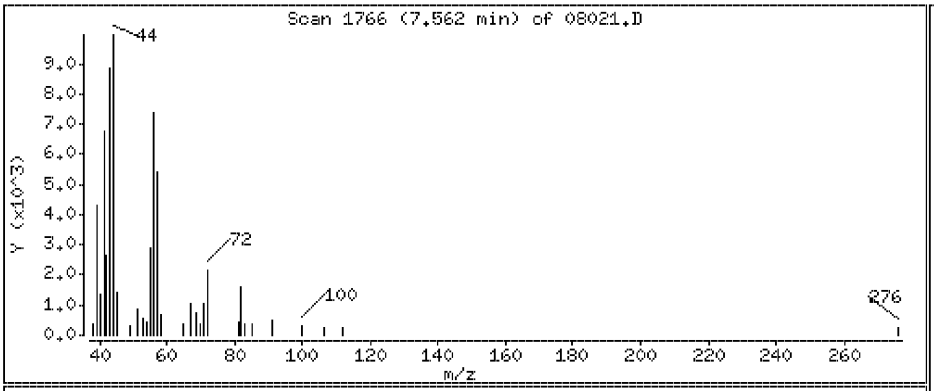
Operator: NCK

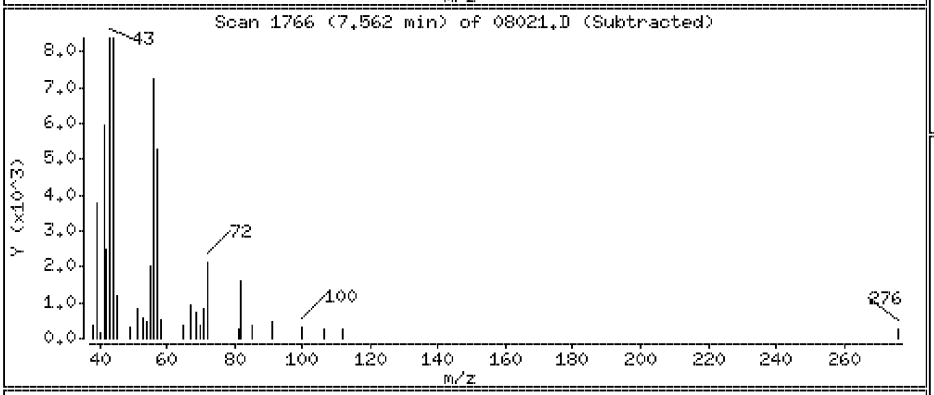
Column phase: J&W DB-5

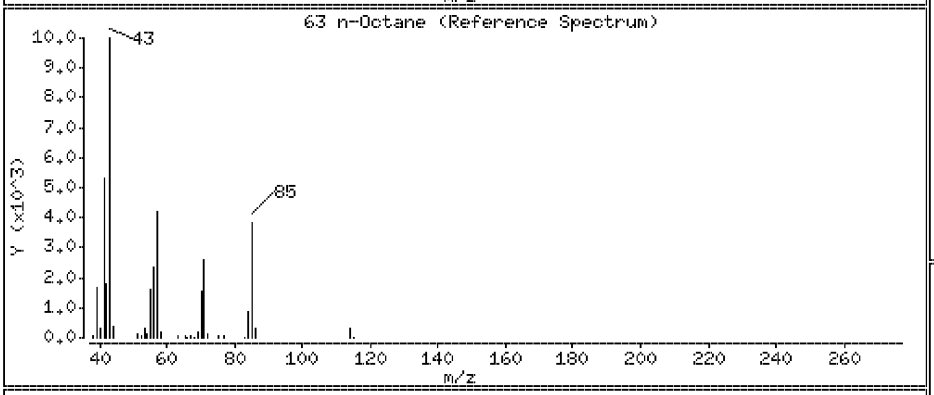
Column diameter: 0.32

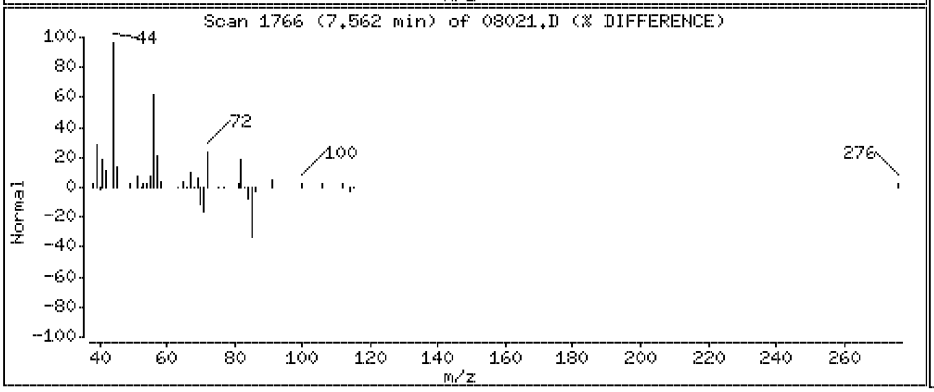
63 n-Octane

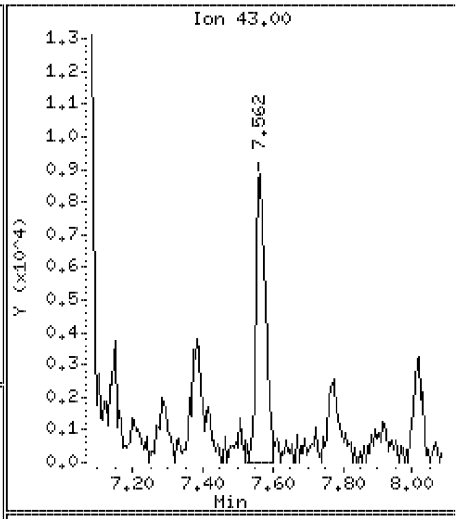
Concentration: 0.176 ppbv

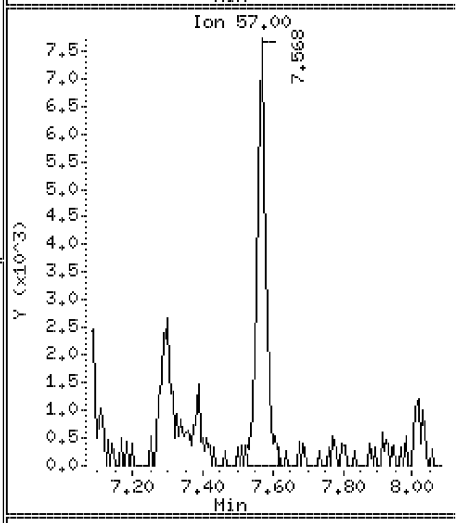


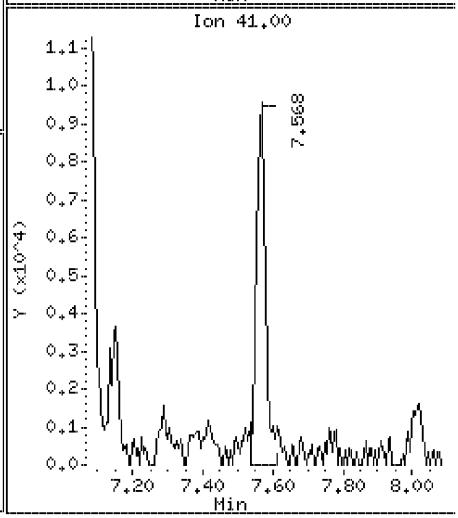












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

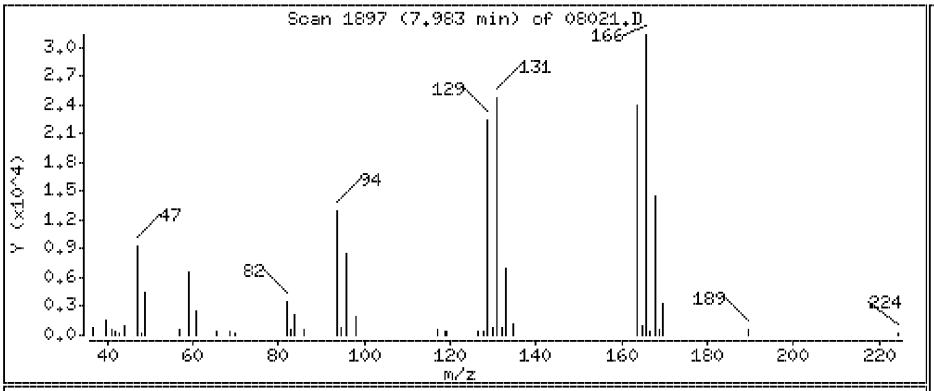
Operator: NCK

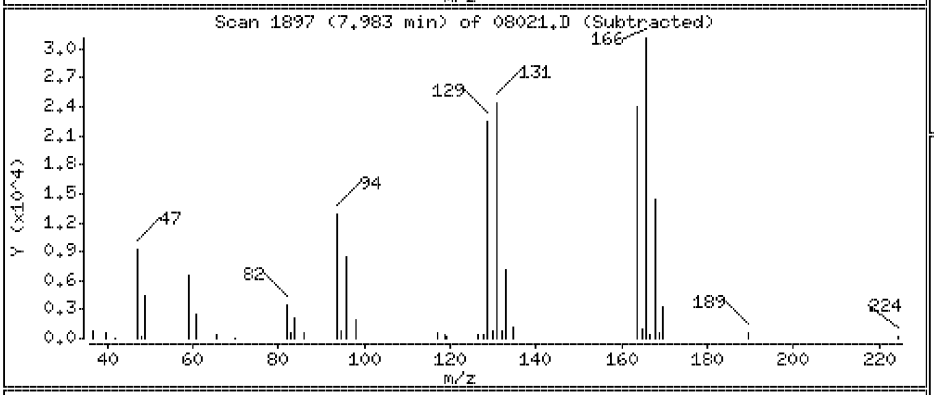
Column phase: J&W DB-5

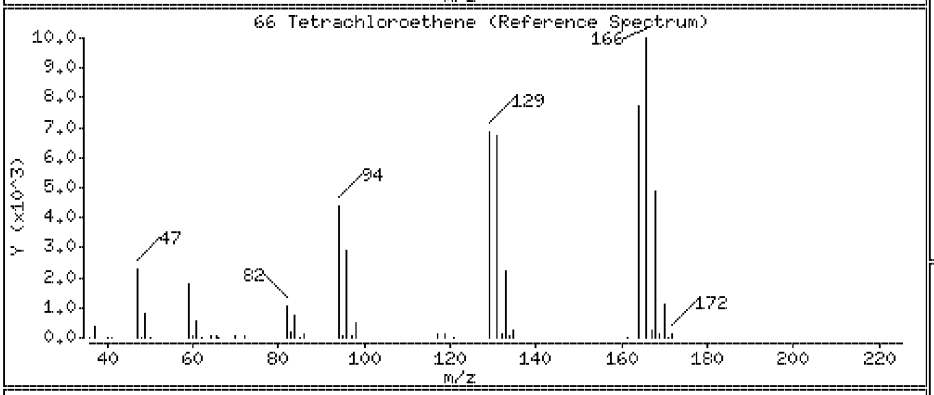
Column diameter: 0.32

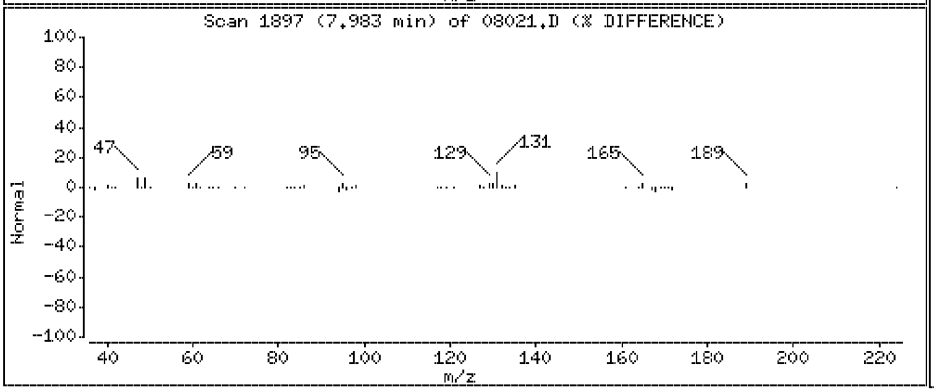
66 Tetrachloroethene

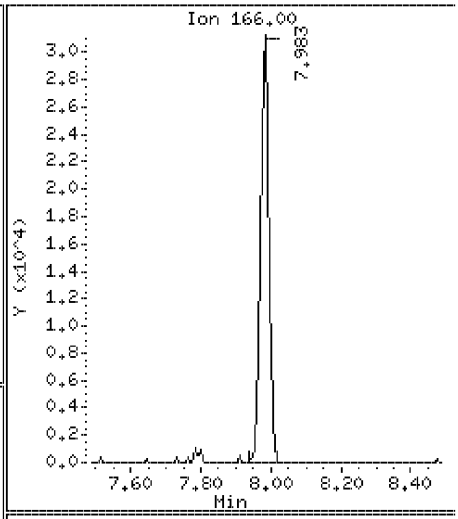
Concentration: 0.918 ppbv

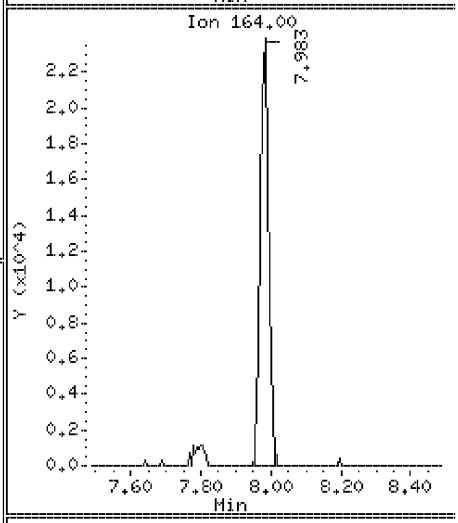


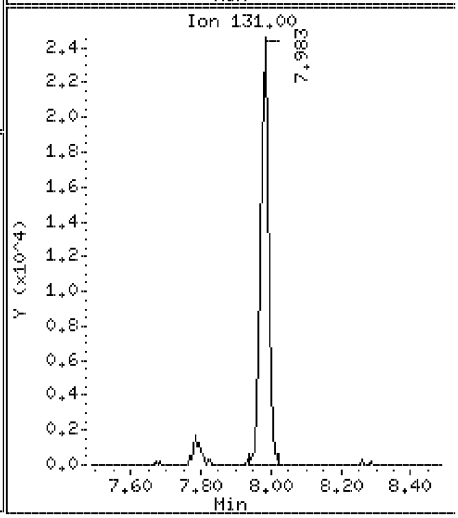












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

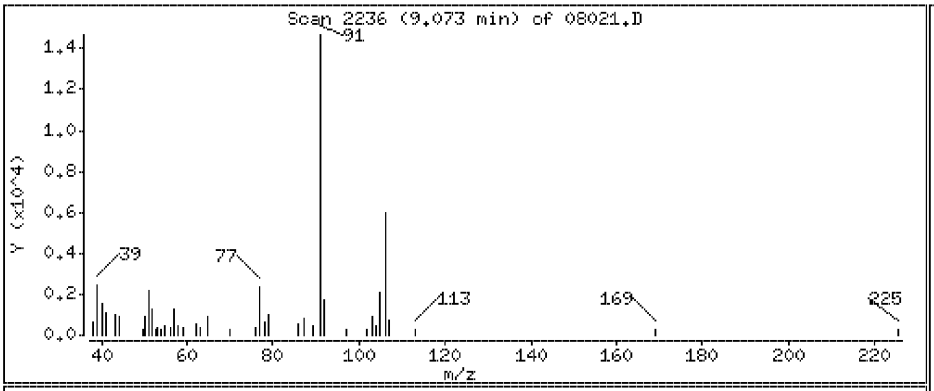
Operator: NCK

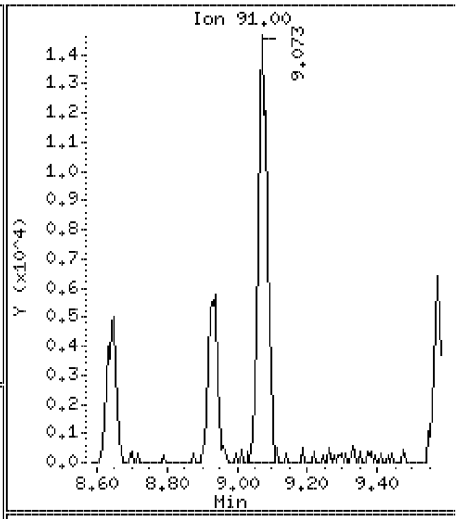
Column phase: J&W DB-5

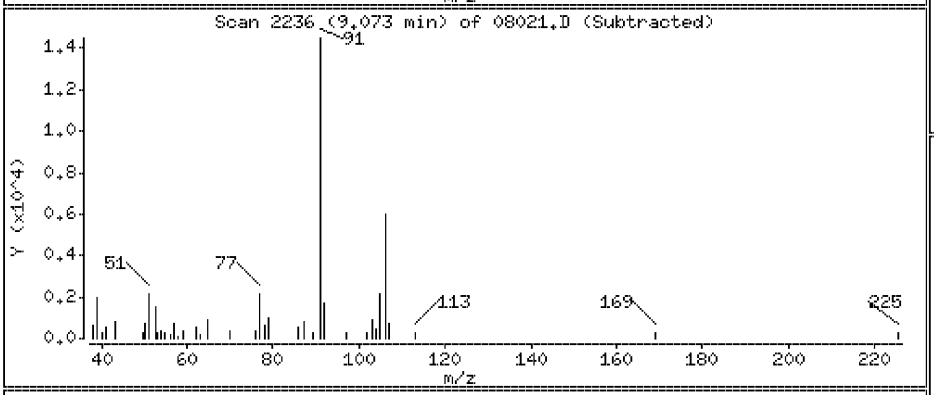
Column diameter: 0.32

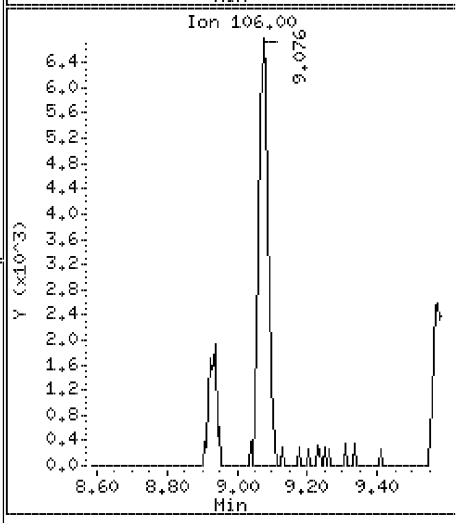
70 m&p-Xylene

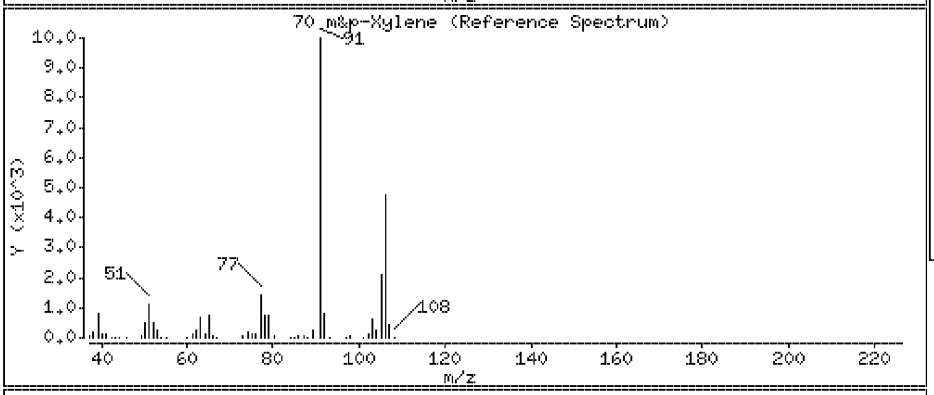
Concentration: 0.489 ppbv

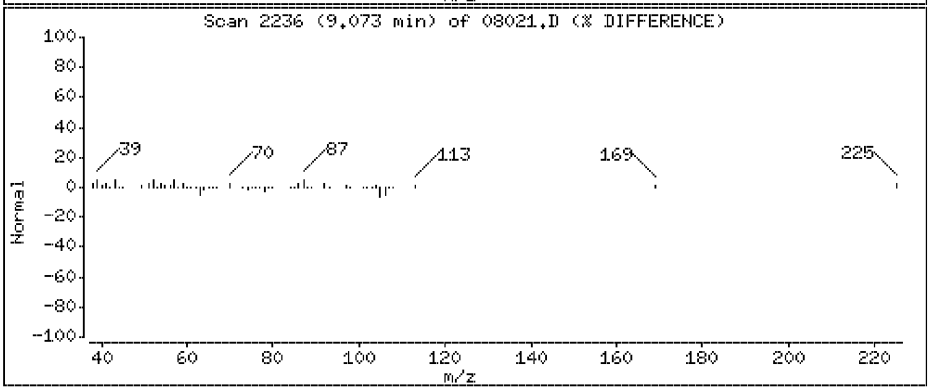












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

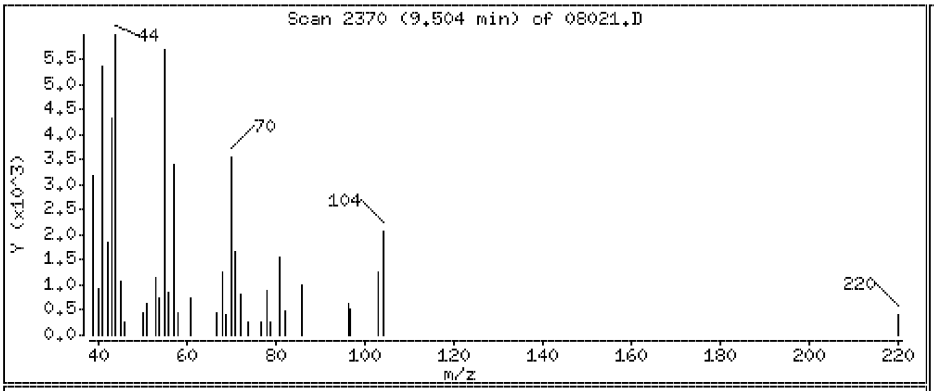
Operator: NCK

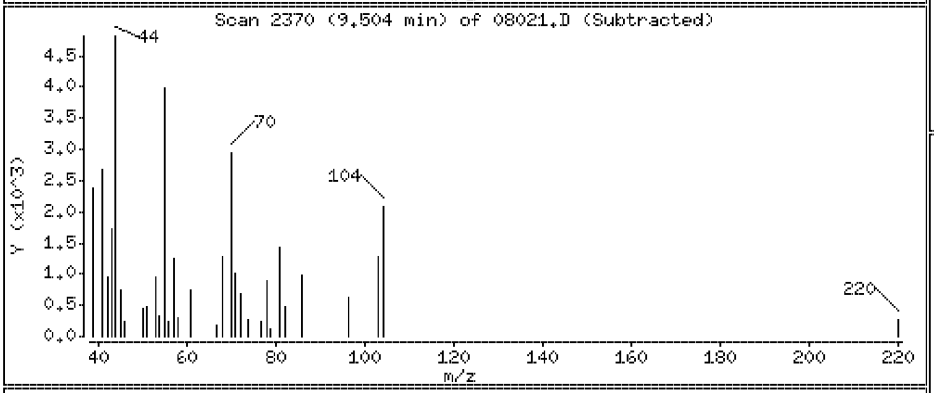
Column phase: J&W DB-5

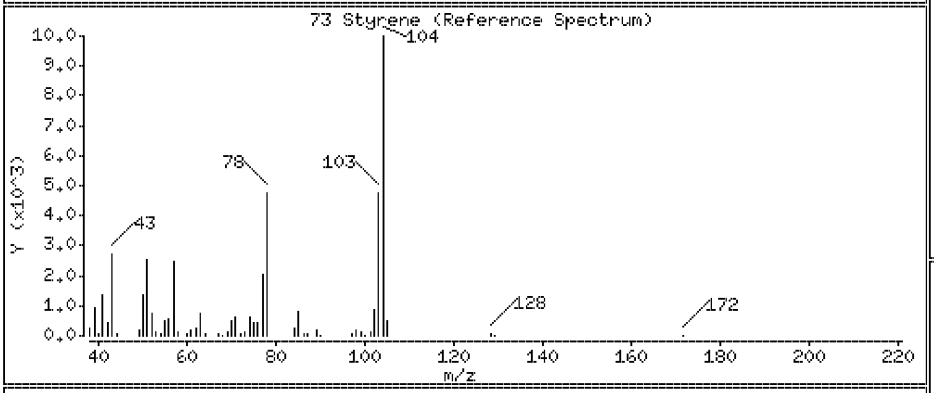
Column diameter: 0.32

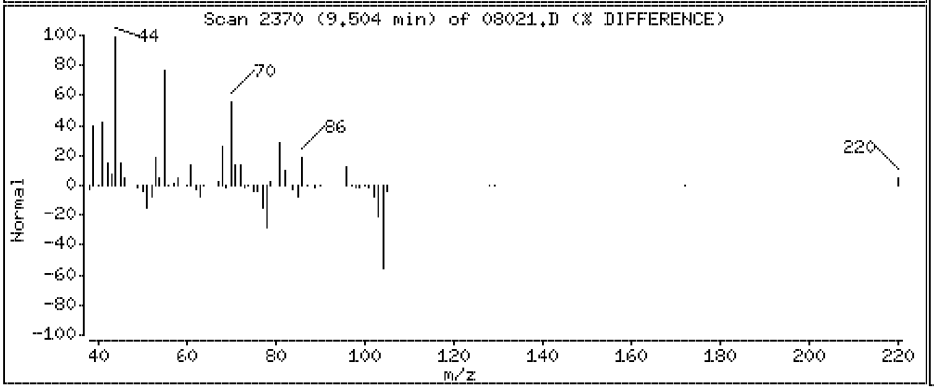
73 Styrene

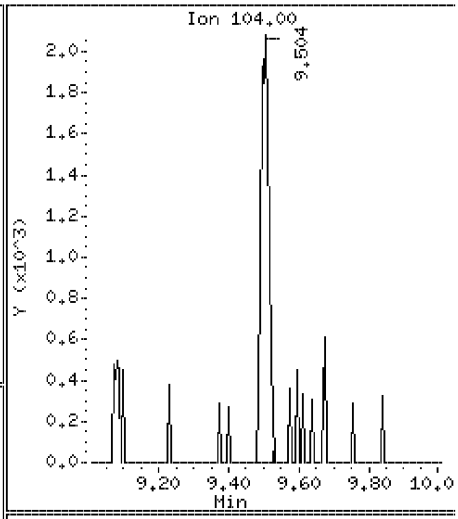
Concentration: 0.256 ppbv

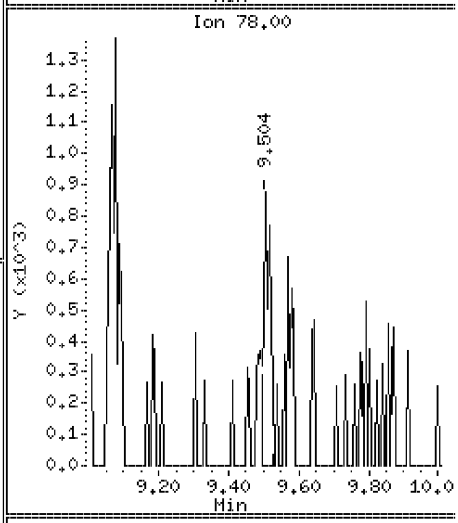


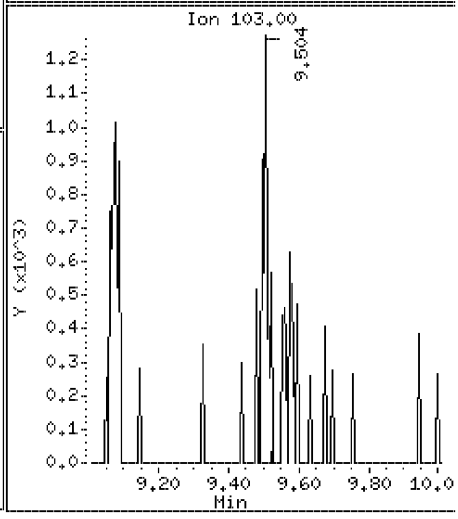












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

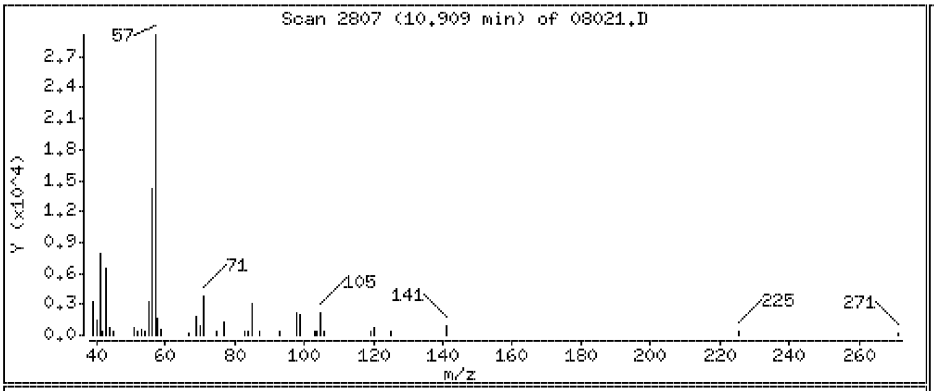
Operator: NCK

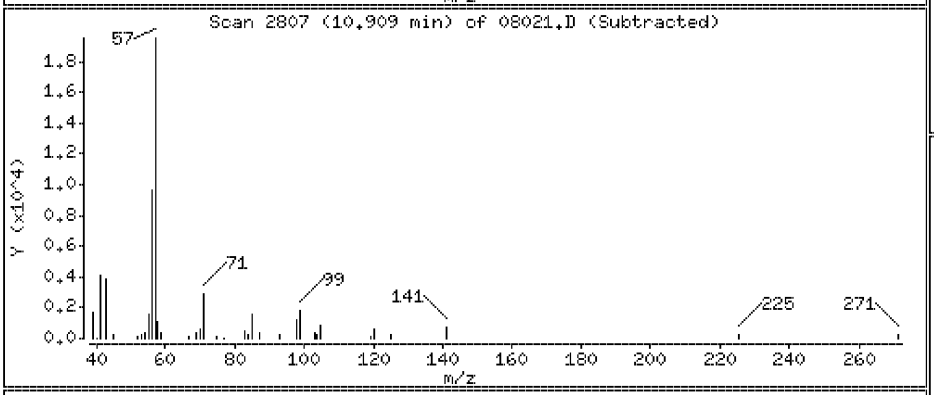
Column phase: J&W DB-5

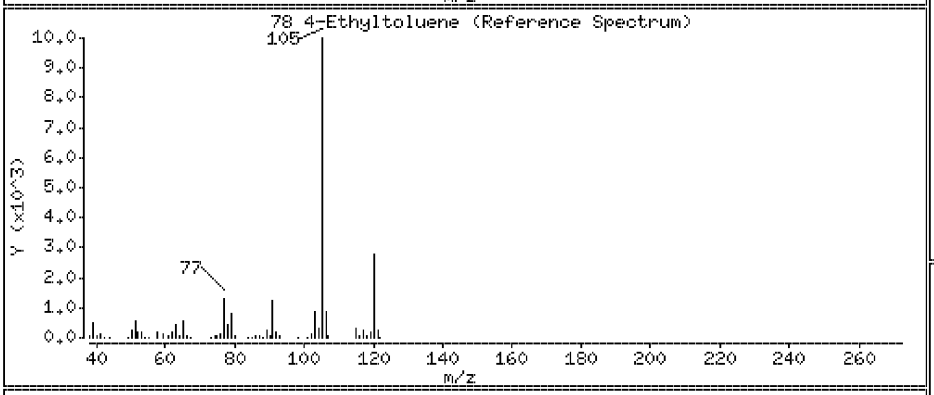
Column diameter: 0.32

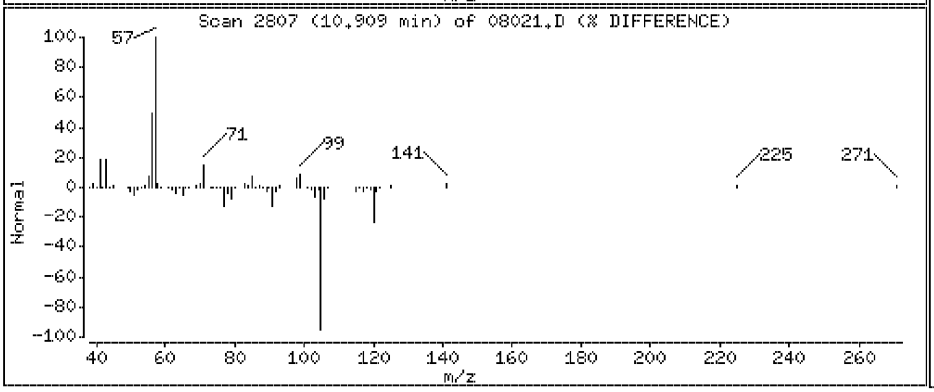
78 4-Ethyltoluene

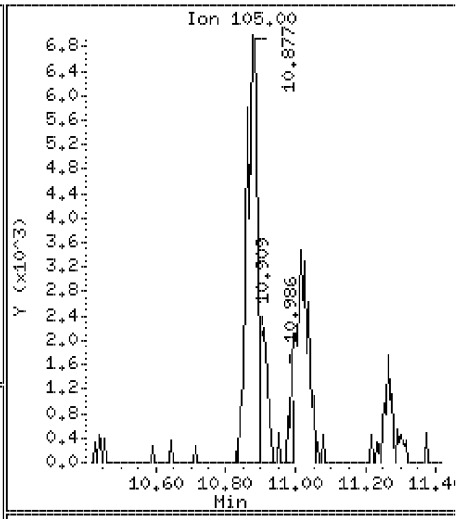
Concentration: 0.299 ppbv

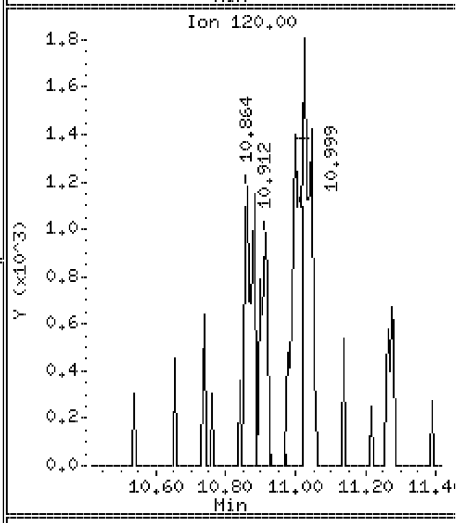


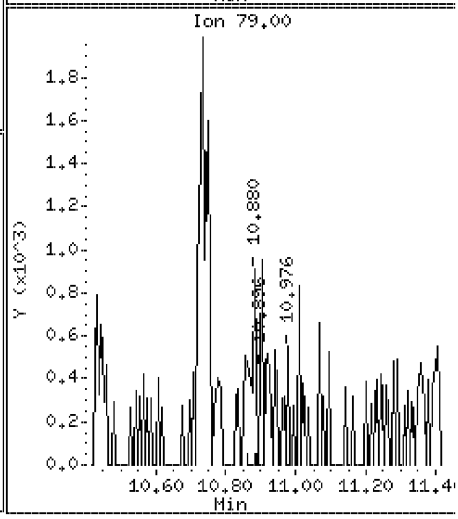












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

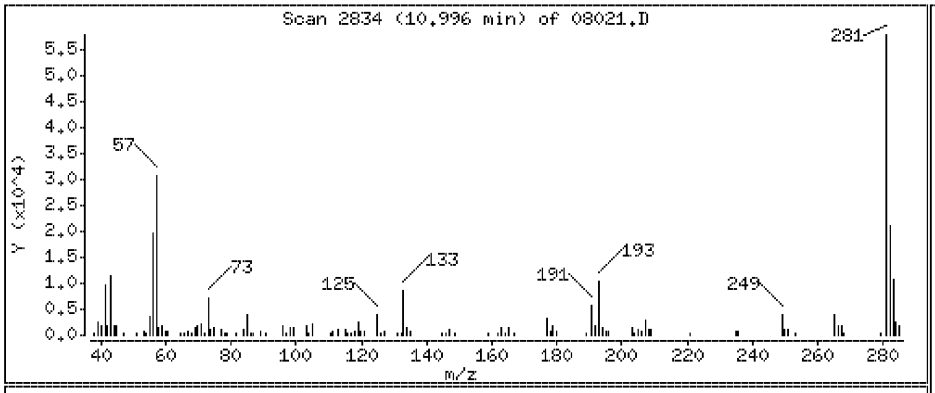
Operator: NCK

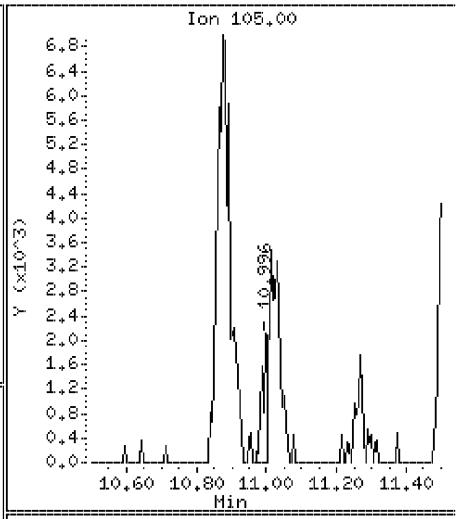
Column phase: J&W DB-5

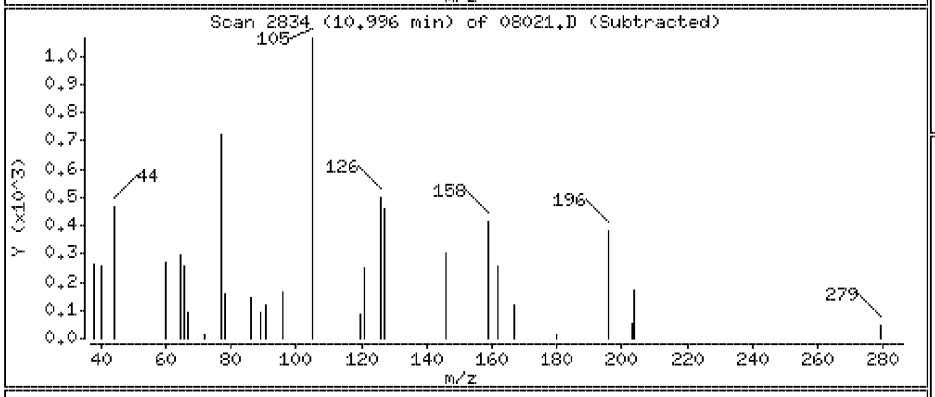
Column diameter: 0.32

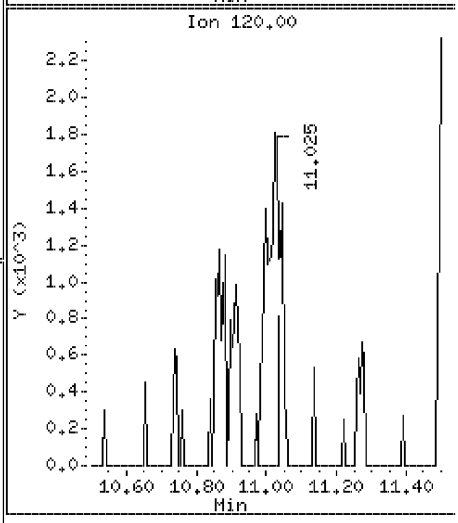
79 1,3,5-Trimethylbenzene

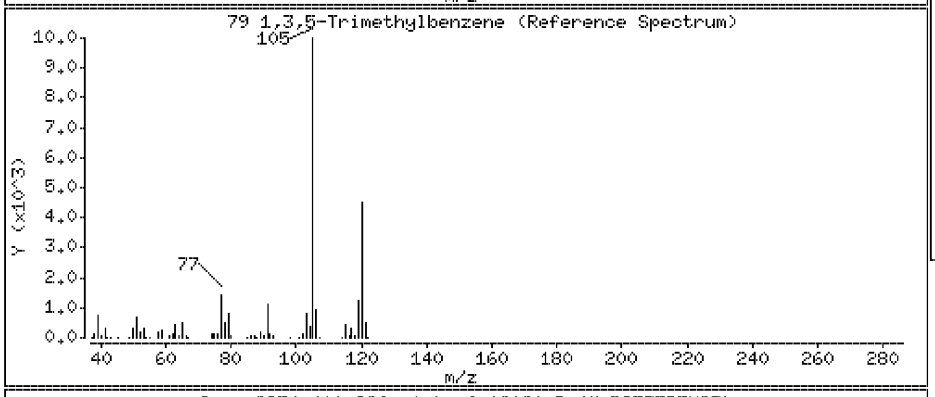
Concentration: 0.264 ppbv

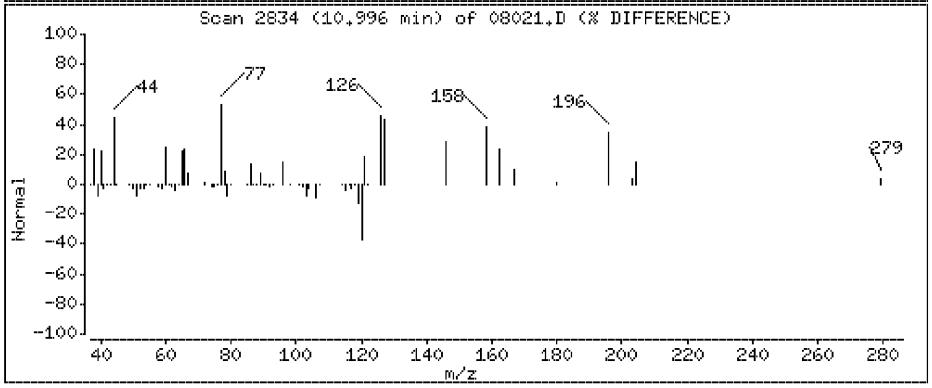












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

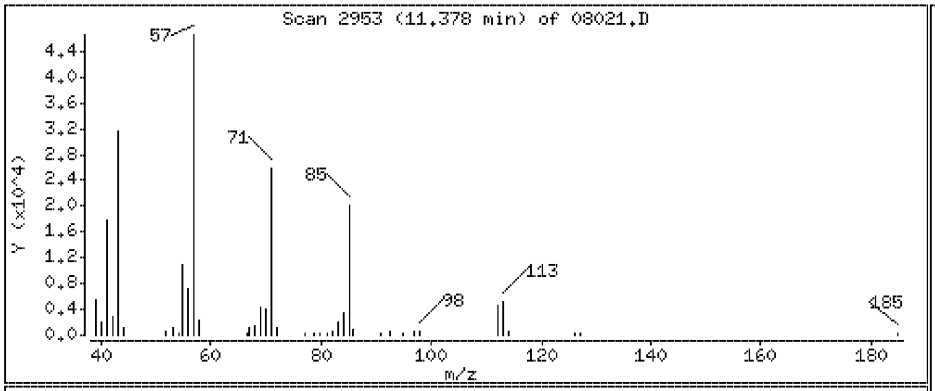
Operator: NCK

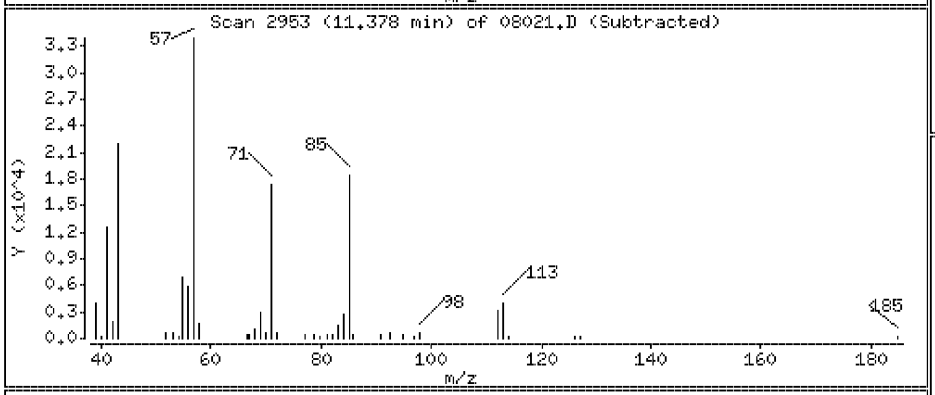
Column phase: J&W DB-5

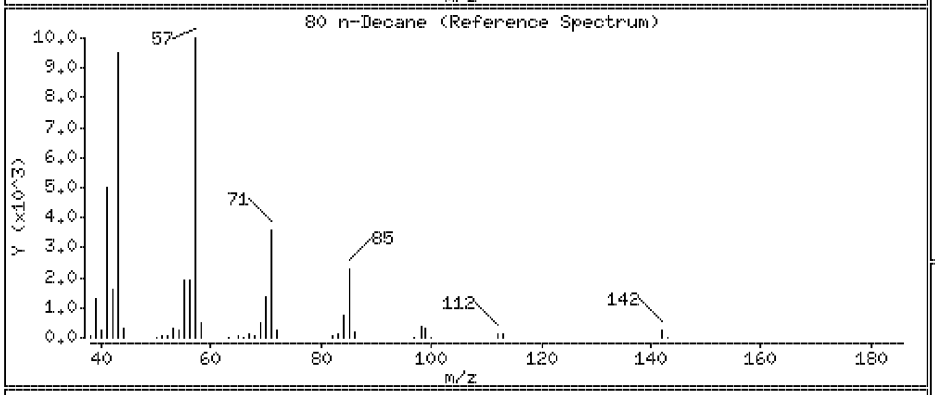
Column diameter: 0.32

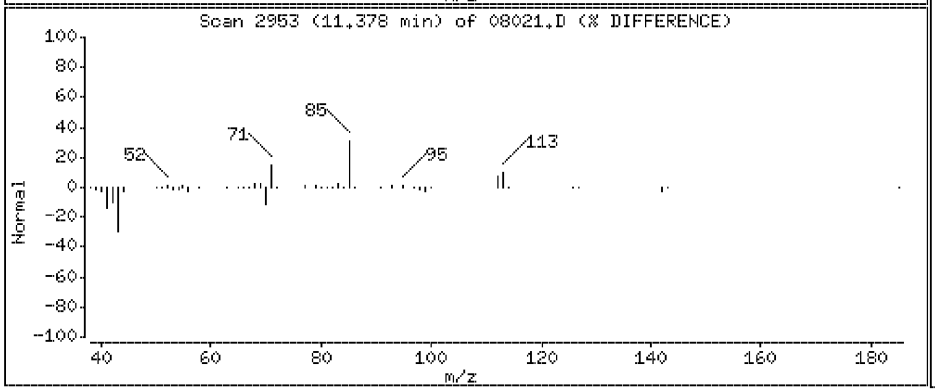
80 n-Decane

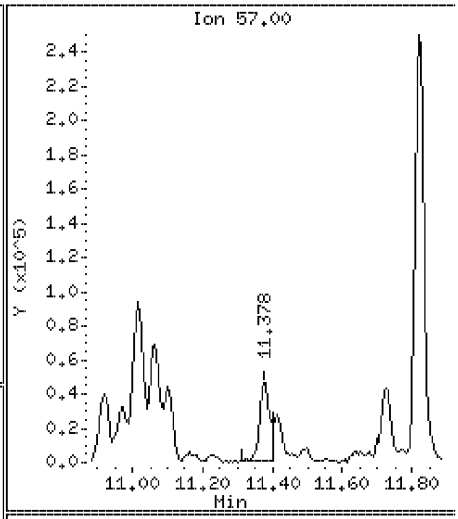
Concentration: 1.21 ppbv

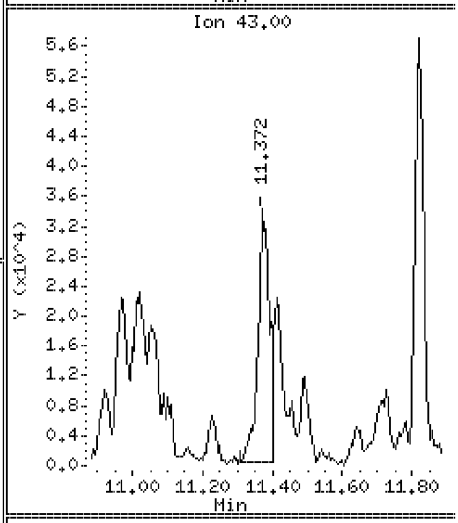


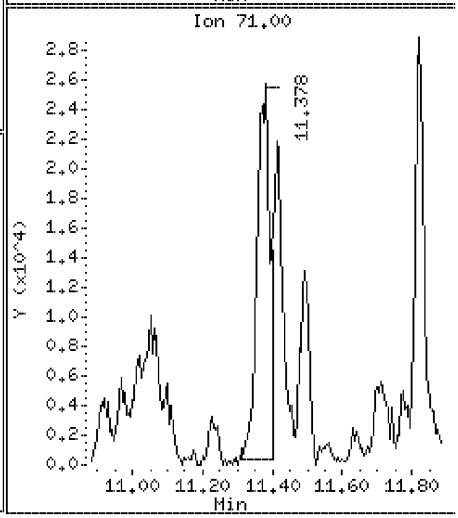












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

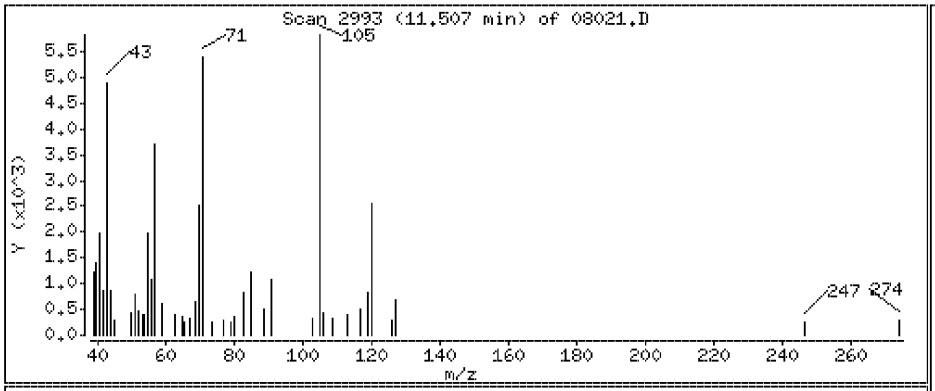
Operator: NCK

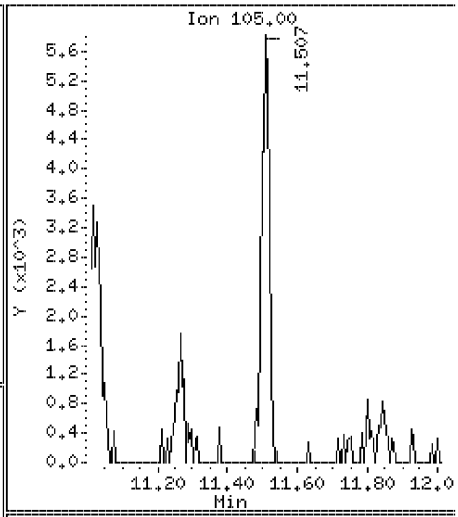
Column phase: J&W DB-5

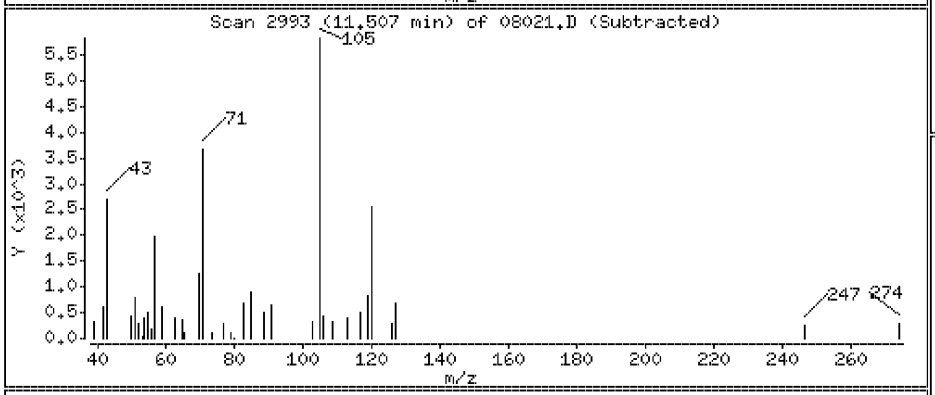
Column diameter: 0.32

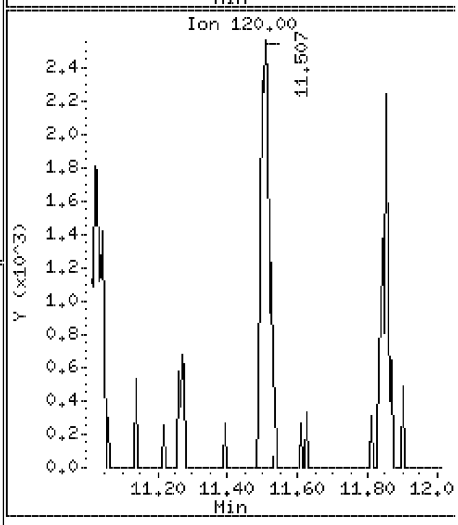
82 1,2,4-Trimethylbenzene

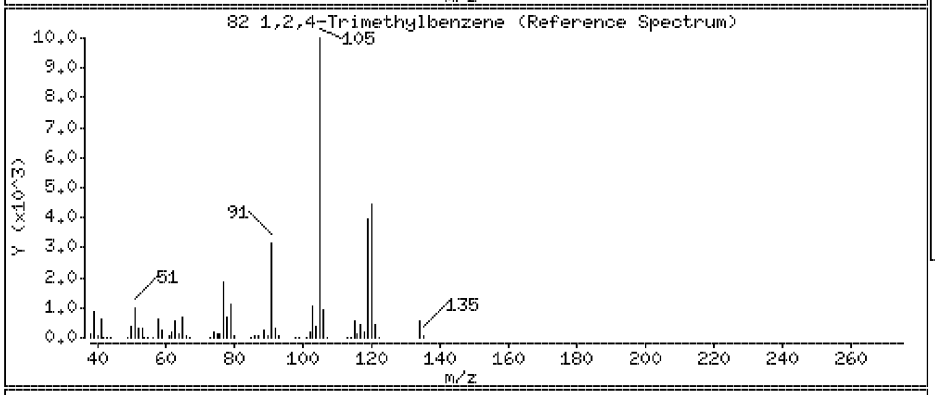
Concentration: 0.292 ppbv

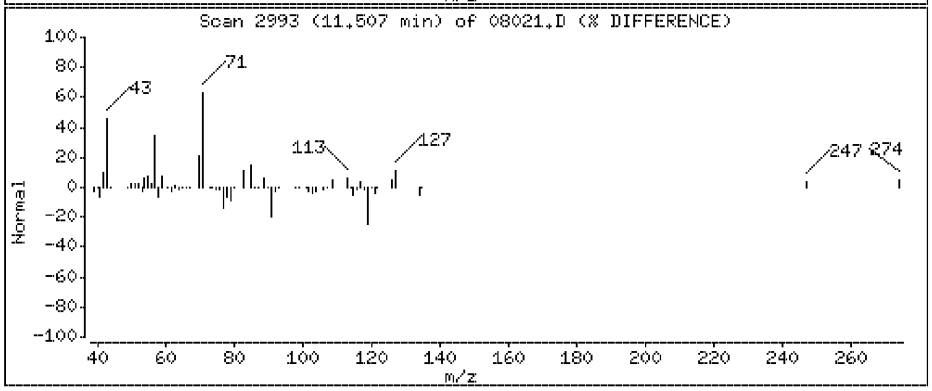












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08021.D

Date : 21-MAR-2017 18:53

Client ID:

Instrument: 10airB.i

Sample Info:

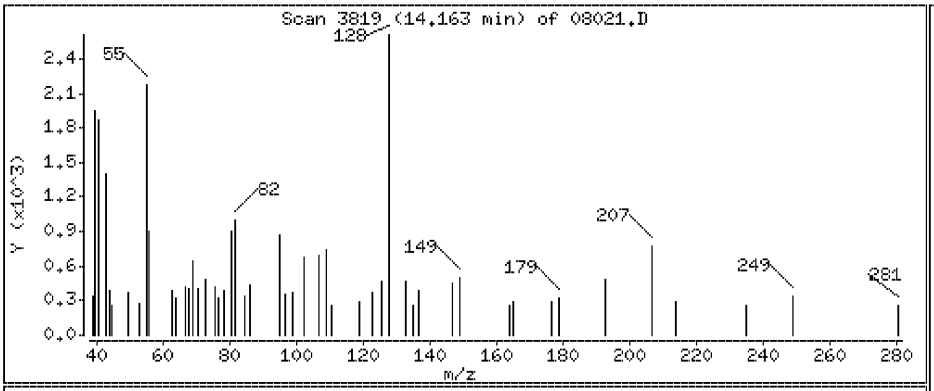
Operator: NCK

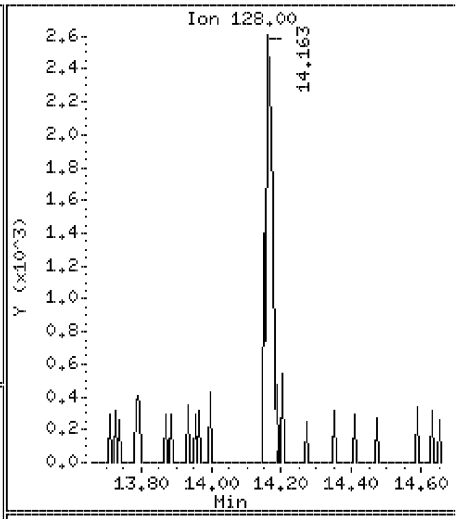
Column phase: J&W DB-5

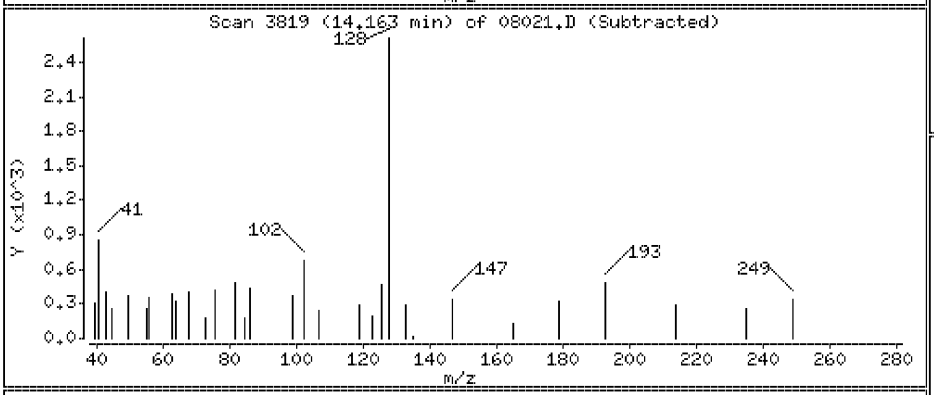
Column diameter: 0.32

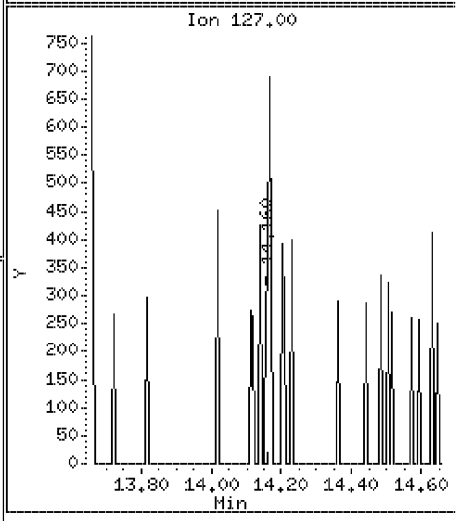
94 Naphthalene

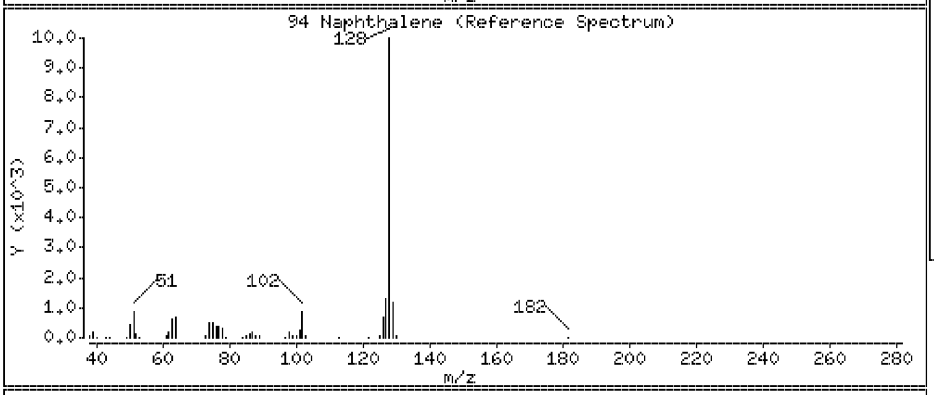
Concentration: 0.787 ppbv

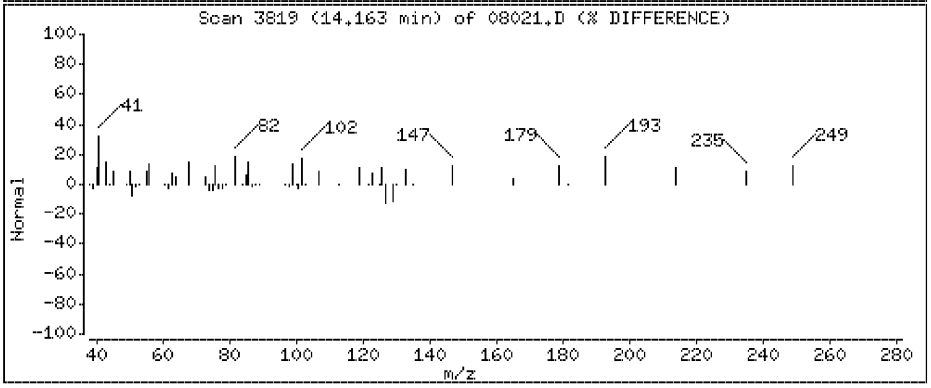






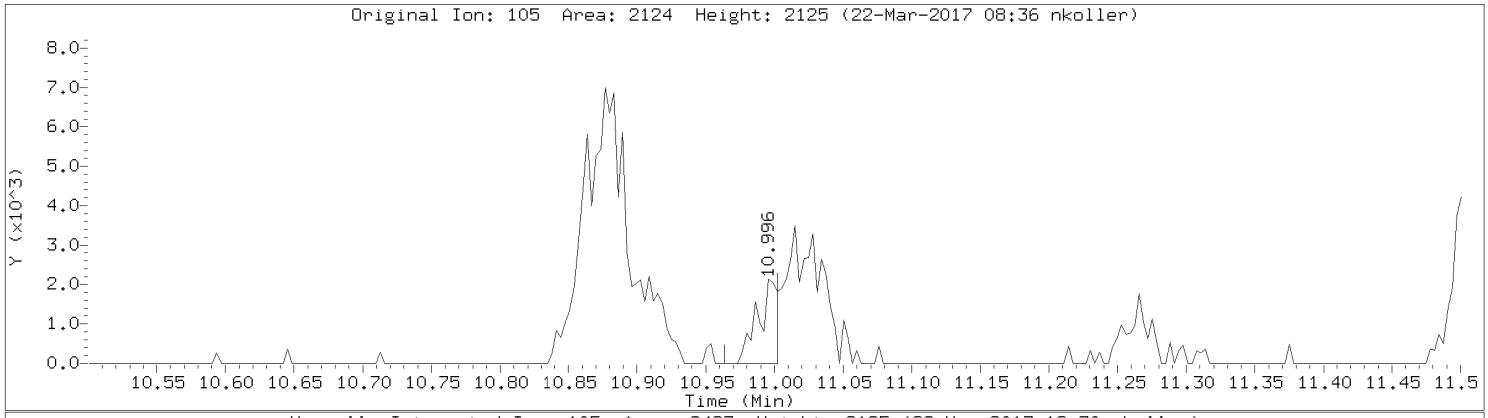


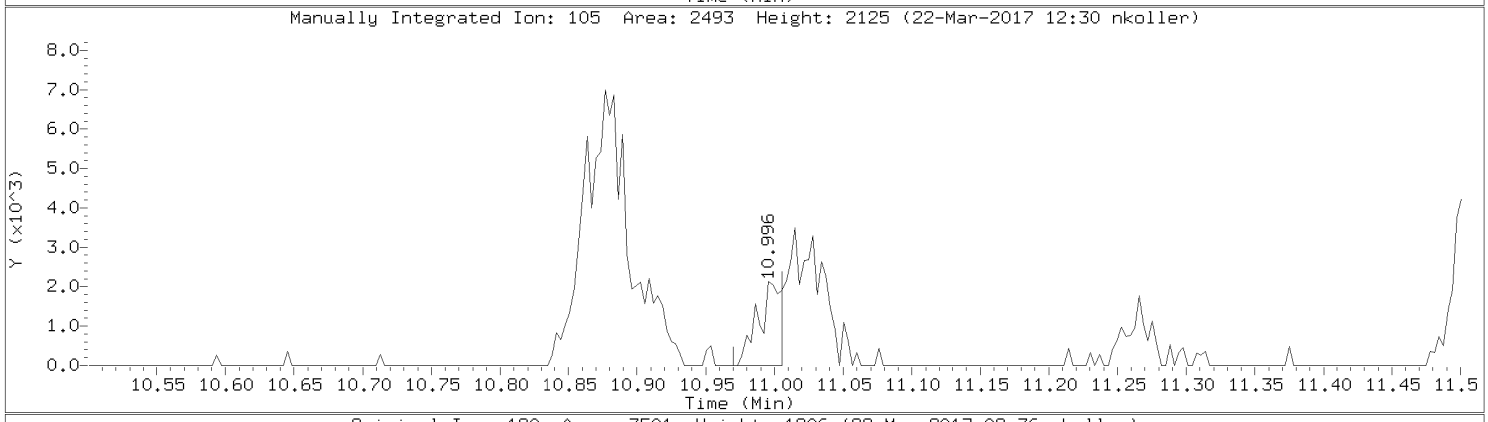


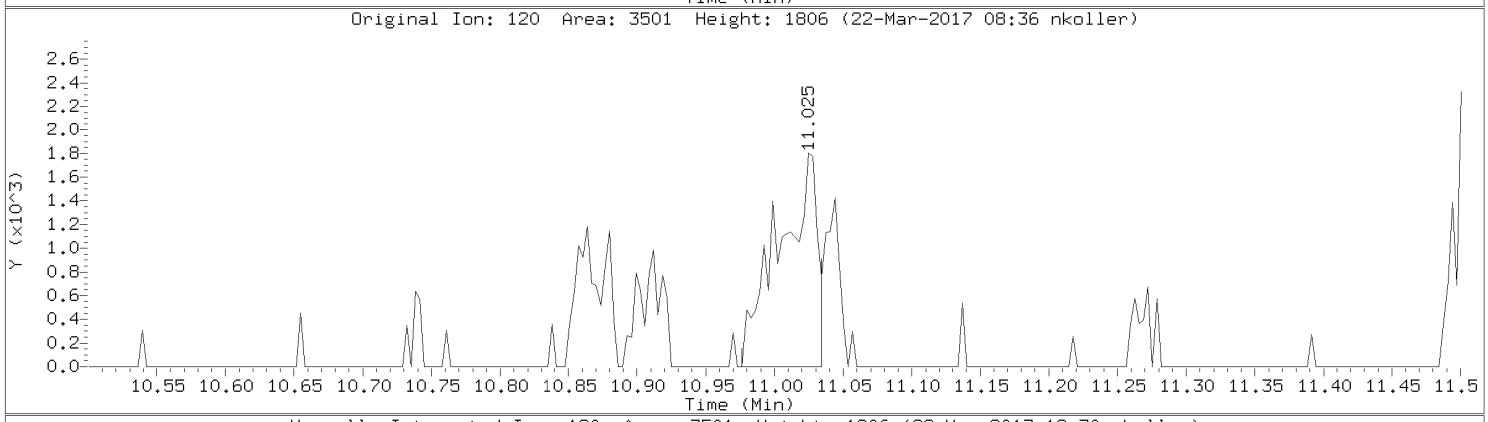


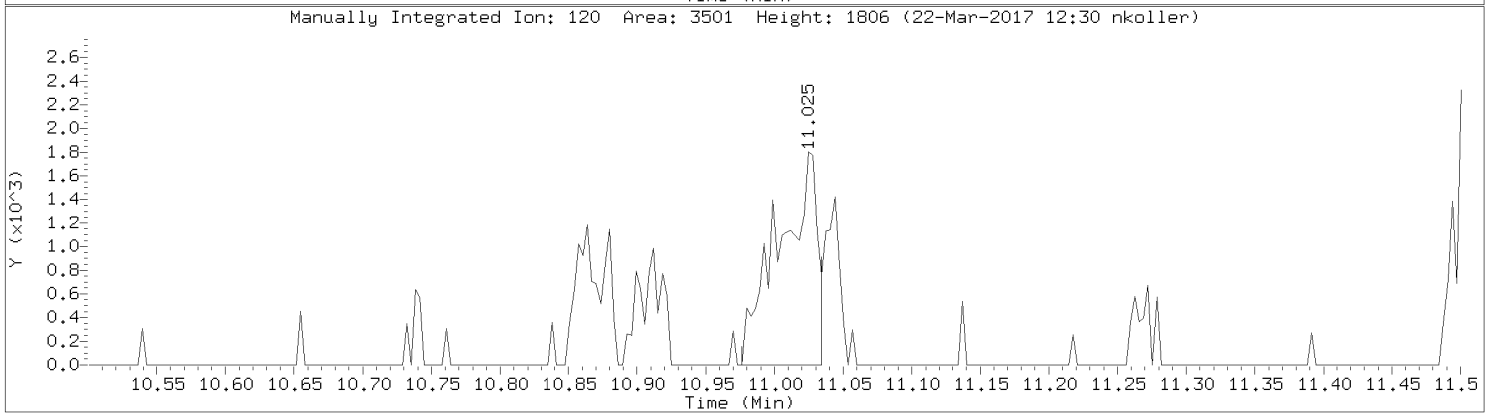
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08021.D
Injection Date: 21-MAR-2017 18:53
Instrument: 10airB.i
Lab Sample ID: 10381035011

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



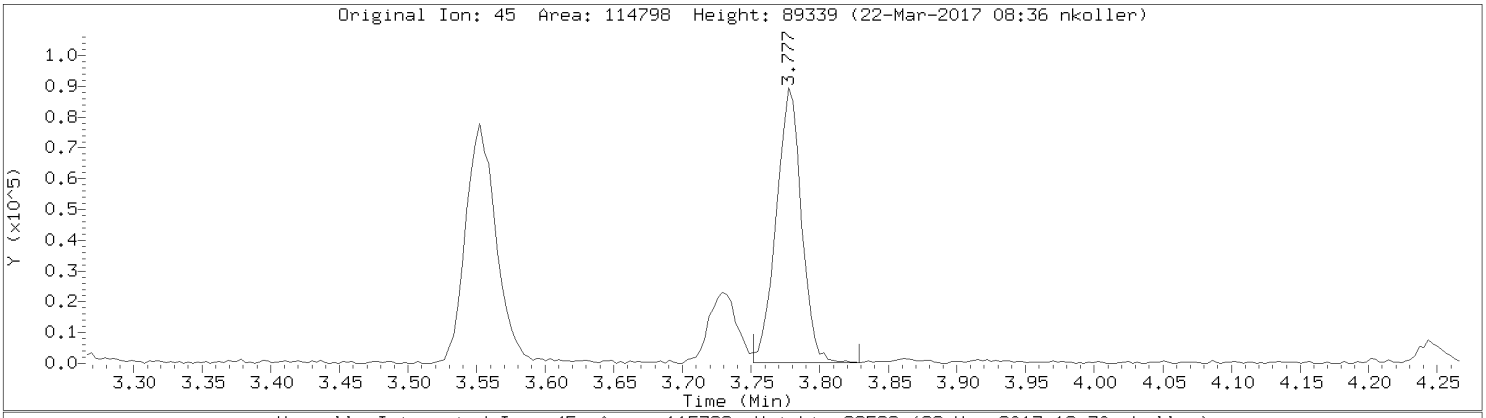


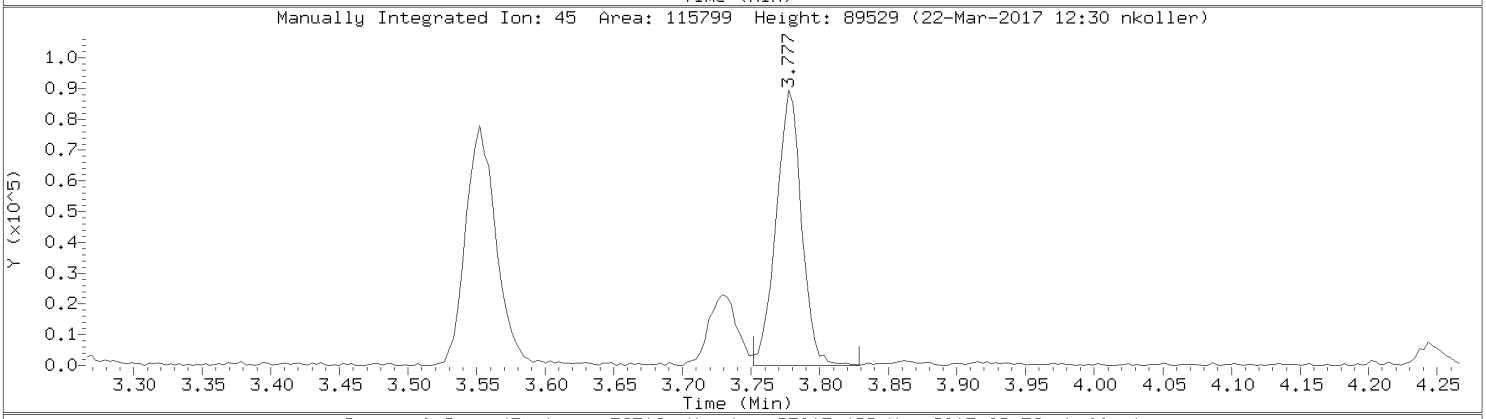


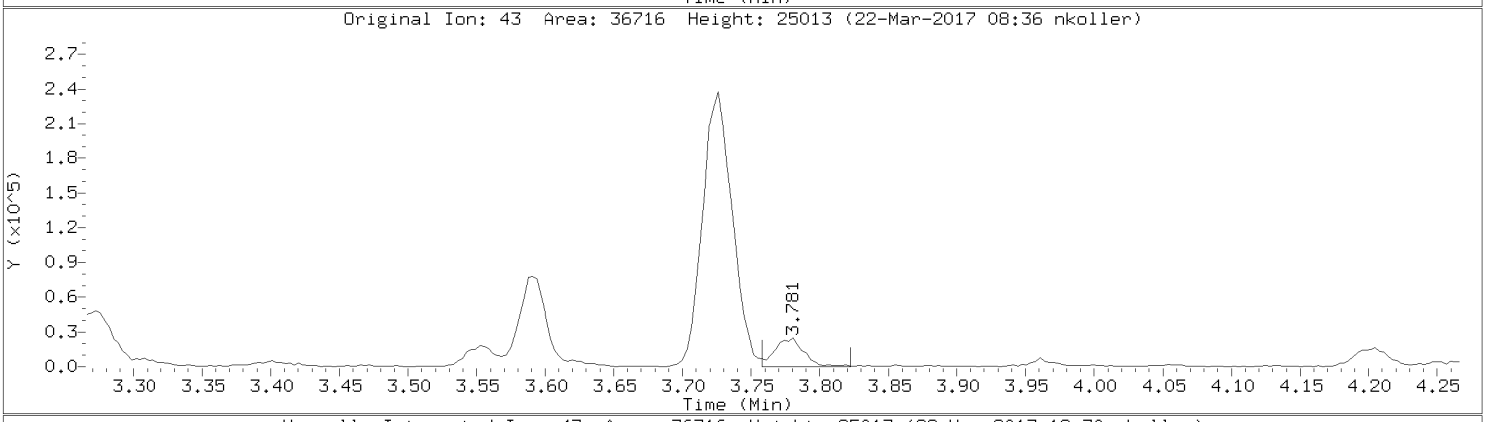


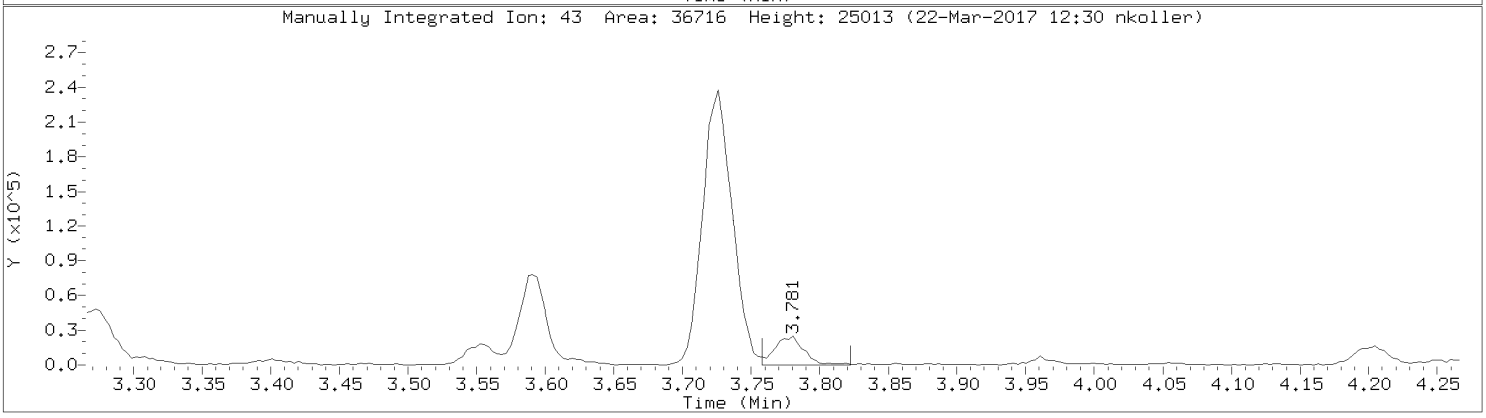
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08021.D
Injection Date: 21-MAR-2017 18:53
Instrument: 10airB.i
Lab Sample ID: 10381035011

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_20_20170302 **Lab ID: 10381035011** Collected: 03/02/17 11:40 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**4.2J**	ug/m3	4.4	0.42	1.75		03/21/17 18:53	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.34	1.75		03/21/17 18:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 18:53	79-34-5	
Tetrachloroethene	**6.3**	ug/m3	1.2	0.49	1.75		03/21/17 18:53	127-18-4	
Toluene	**13.4**	ug/m3	1.3	0.27	1.75		03/21/17 18:53	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 18:53	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/21/17 18:53	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 18:53	79-00-5	
Trichloroethene	**6.0**	ug/m3	0.96	0.48	1.75		03/21/17 18:53	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.0	0.23	1.75		03/21/17 18:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**2.4J**	ug/m3	2.8	0.53	1.75		03/21/17 18:53	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.22	1.75		03/21/17 18:53	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/21/17 18:53	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 18:53	75-01-4	
m&p-Xylene	**2.2J**	ug/m3	3.1	1.4	1.75		03/21/17 18:53	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 18:53	95-47-6	

Sample: VP-4_30_20170302 **Lab ID: 10381035012** Collected: 03/02/17 11:22 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**10.9**	ug/m3	4.6	1.6	1.92		03/21/17 19:25	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/21/17 19:25	107-05-1	
Benzene	**<0.23**	ug/m3	0.62	0.23	1.92		03/21/17 19:25	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/21/17 19:25	75-27-4	
Bromoform	**<1.7**	ug/m3	10.1	1.7	1.92		03/21/17 19:25	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/21/17 19:25	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/21/17 19:25	106-99-0	
2-Butanone (MEK)	**<0.44**	ug/m3	5.8	0.44	1.92		03/21/17 19:25	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/21/17 19:25	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/21/17 19:25	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/21/17 19:25	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/21/17 19:25	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/21/17 19:25	75-00-3	
Chloroform	**0.82J**	ug/m3	0.95	0.36	1.92		03/21/17 19:25	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/21/17 19:25	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/21/17 19:25	76-15-3	
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/21/17 19:25	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/21/17 19:25	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/21/17 19:25	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/21/17 19:25	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/21/17 19:25	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/21/17 19:25	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_30_20170302 **Lab ID: 10381035012** Collected: 03/02/17 11:22 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/21/17 19:25	106-46-7	
Dichlorodifluoromethane	**<0.92**	ug/m3	4.8	0.92	1.92		03/21/17 19:25	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/21/17 19:25	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/21/17 19:25	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/21/17 19:25	75-35-4	
cis-1,2-Dichloroethene	**1.8**	ug/m3	1.6	0.47	1.92		03/21/17 19:25	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/21/17 19:25	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/21/17 19:25	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/21/17 19:25	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/21/17 19:25	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/21/17 19:25	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/21/17 19:25	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/21/17 19:25	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/21/17 19:25	100-41-4	
4-Ethyltoluene	**1.7J**	ug/m3	1.9	0.36	1.92		03/21/17 19:25	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/21/17 19:25	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.4	0.69	1.92		03/21/17 19:25	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/21/17 19:25	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/21/17 19:25	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/21/17 19:25	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/21/17 19:25	108-87-2	
Methylene Chloride	**4.0J**	ug/m3	6.8	1.0	1.92		03/21/17 19:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/21/17 19:25	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/21/17 19:25	1634-04-4	
2-Propanol	**4.2J**	ug/m3	4.8	0.46	1.92		03/21/17 19:25	67-63-0	
Styrene	**1.2J**	ug/m3	1.7	0.37	1.92		03/21/17 19:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	2.7	0.63	1.92		03/21/17 19:25	79-34-5	
Tetrachloroethene	**71.9**	ug/m3	1.3	0.53	1.92		03/21/17 19:25	127-18-4	
Toluene	**18.9**	ug/m3	1.5	0.30	1.92		03/21/17 19:25	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/21/17 19:25	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/21/17 19:25	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/21/17 19:25	79-00-5	
Trichloroethene	**59.3**	ug/m3	1.1	0.53	1.92		03/21/17 19:25	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.2	0.25	1.92		03/21/17 19:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	**4.6**	ug/m3	3.1	0.58	1.92		03/21/17 19:25	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	1.9	0.24	1.92		03/21/17 19:25	95-63-6	
1,3,5-Trimethylbenzene	**1.8J**	ug/m3	1.9	0.35	1.92		03/21/17 19:25	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/21/17 19:25	75-01-4	
m&p-Xylene	**2.5J**	ug/m3	3.4	1.5	1.92		03/21/17 19:25	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/21/17 19:25	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D
Report Date: 22-Mar-2017 12:33

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08022.D
Lab Smp Id: 10381035012
Inj Date : 21-MAR-2017 19:25
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 22
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.555	3.545	(0.634)	121000	5.02845	9.65	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.668	3.677	(0.655)	16854	0.12958	0.249	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.729	3.722	(0.665)	244983	2.35807	4.53	
19	Isopropyl Alcohol	45	3.780	3.764	(0.675)	105597	0.87186	1.67	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.944	3.951	(0.704)	30751	0.31031	0.596	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D
Report Date: 22-Mar-2017 12:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.989	4.005	(0.712)	50179	0.58750	1.13	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.487	4.491	(0.801)	2126522	9.65273	9.65	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.584	4.587	(0.818)	18167	0.16483	0.316(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.706	4.725	(0.840)	12937	0.23066	0.443(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	4.822	4.841	(0.861)	10028	0.08560	0.164	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	6427566	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.979	5.986	(1.067)	489325	5.65318	10.9	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.073	7.076	(1.262)	5636134	9.52229	9.52	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.150	7.153	(1.276)	552431	2.56944	4.93	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.571	7.581	(0.876)	14320	0.09521	0.183(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	504260	5.43249	10.4	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	4092039	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.069	9.082	(1.050)	28769	0.29618	0.569	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.497	9.507	(1.099)	1525	0.14000	0.269(QM)	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D
Report Date: 22-Mar-2017 12:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.905	10.915	(1.262)	3871	0.17294	0.332(M)	
79	1,3,5-Trimethylbenzene	105	11.024	10.998	(1.276)	10880	0.18500	0.355	
80	n-Decane	57	11.378	11.381	(2.031)	26510	0.20587	0.395(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.516	11.510	(1.333)	6980	0.16231	0.312	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	1910554	9.67521	9.68	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	12.024	12.034	(1.392)	2451	0.15927	0.306(Q)	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	2723	0.44720	0.859	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D
Report Date: 22-Mar-2017 12:33

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08022.D
Lab Smp Id: 10381035012
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

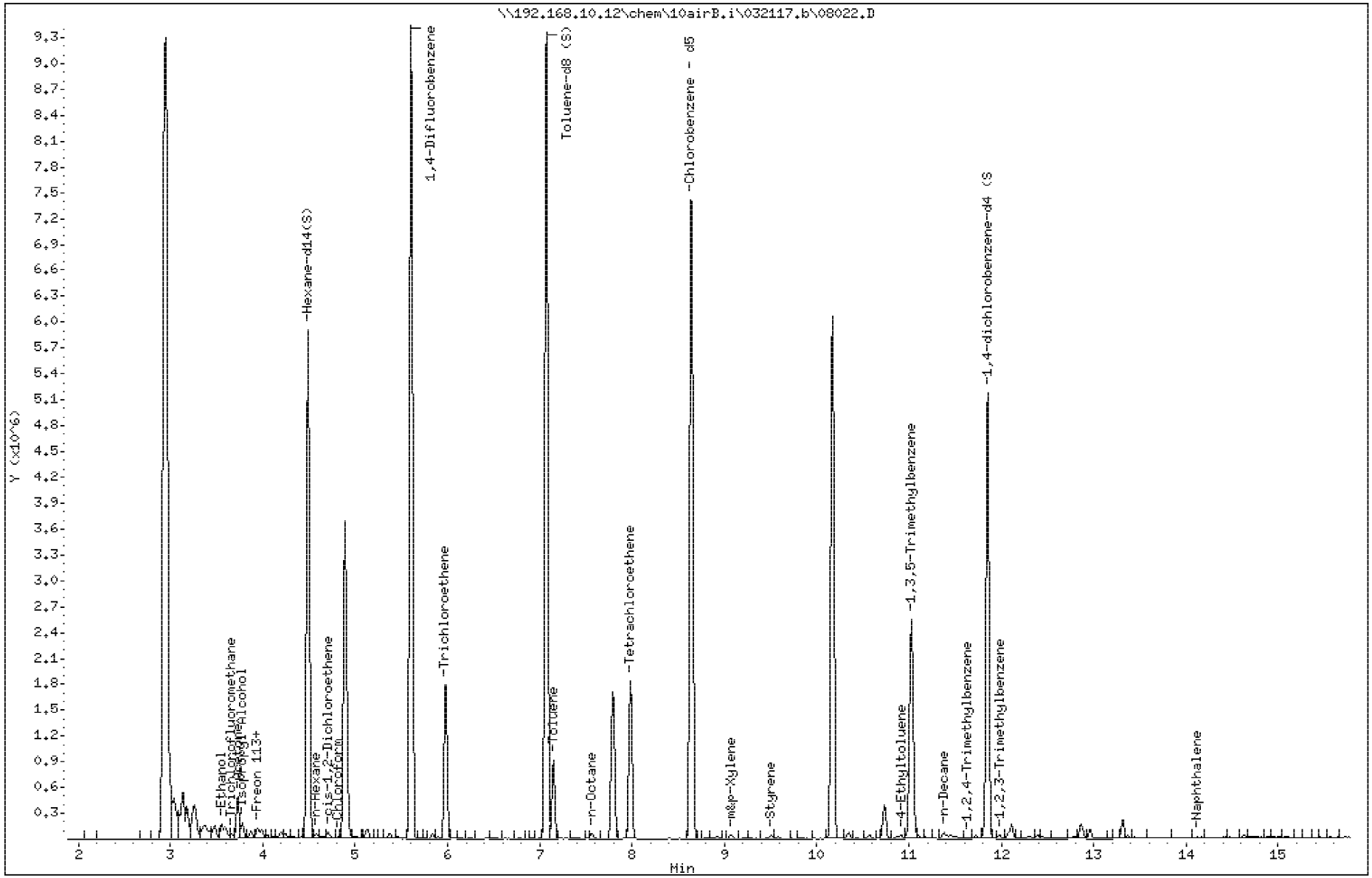
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6427566	-15.88
67 Chlorobenzene - d	5205948	3123569	7288327	4092039	-21.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D
Date : 21-MAR-2017 19:25
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

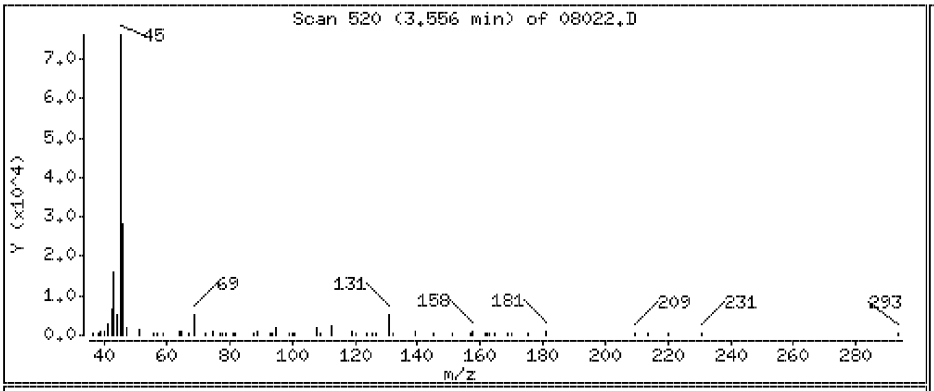
Operator: NCK

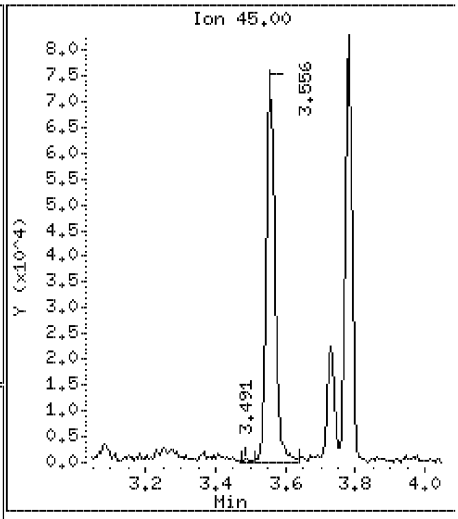
Column phase: J&W DB-5

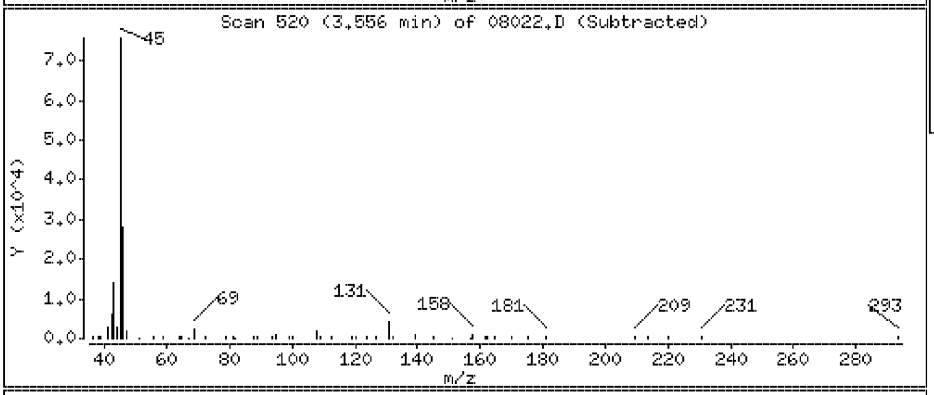
Column diameter: 0.32

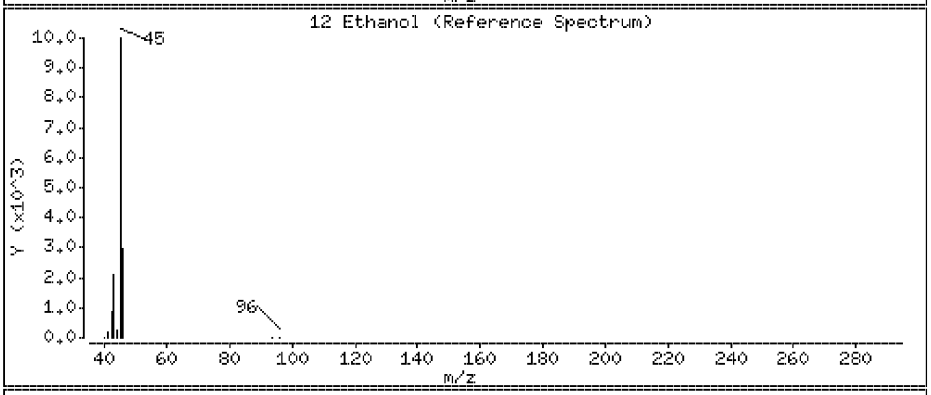
12 Ethanol

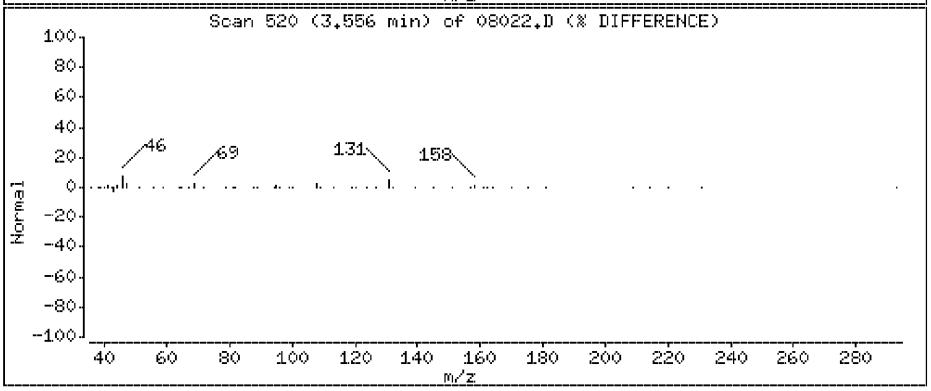
Concentration: 9.65 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

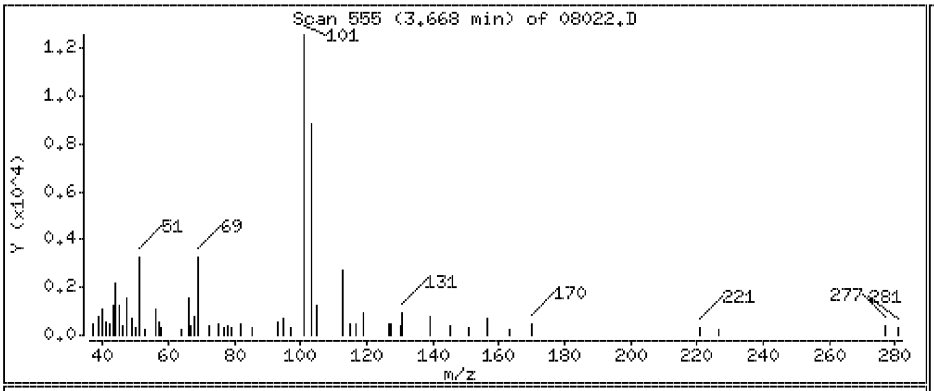
Operator: NCK

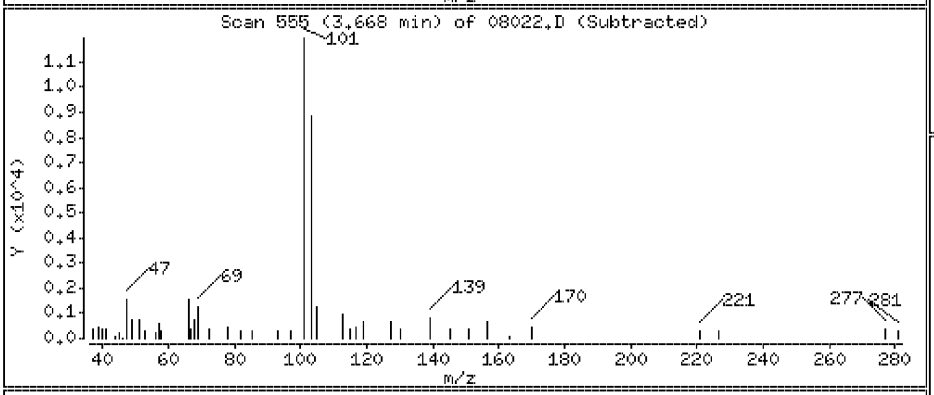
Column phase: J&W DB-5

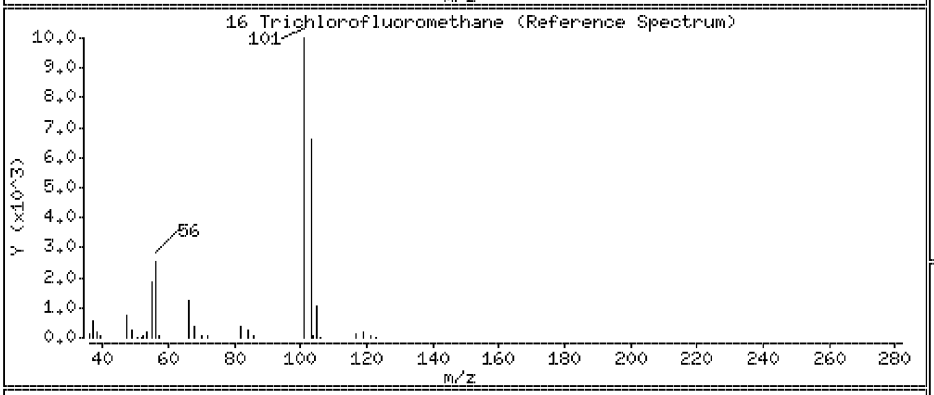
Column diameter: 0.32

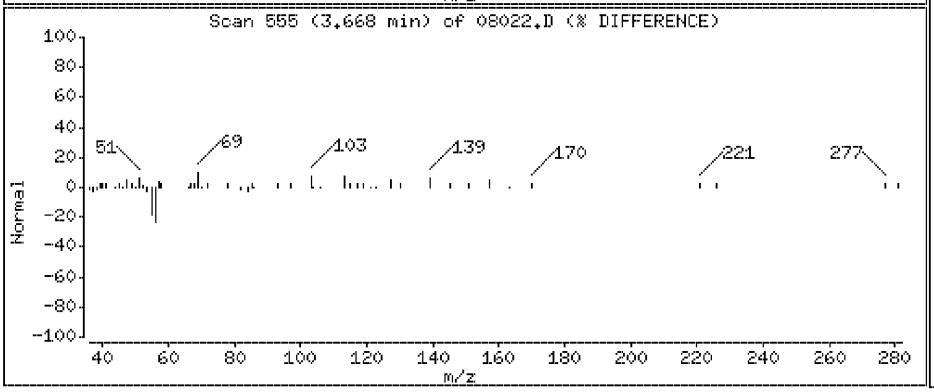
16 Trichlorofluoromethane

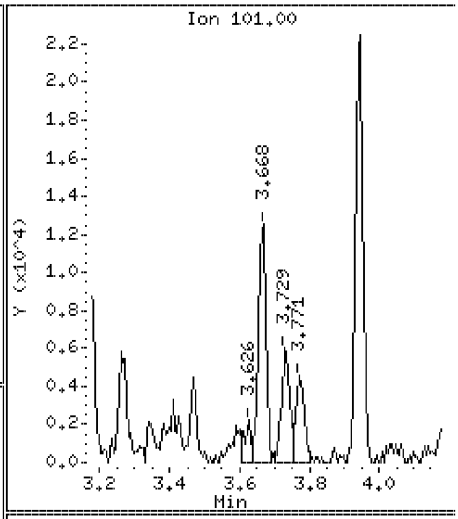
Concentration: 0.249 ppbv

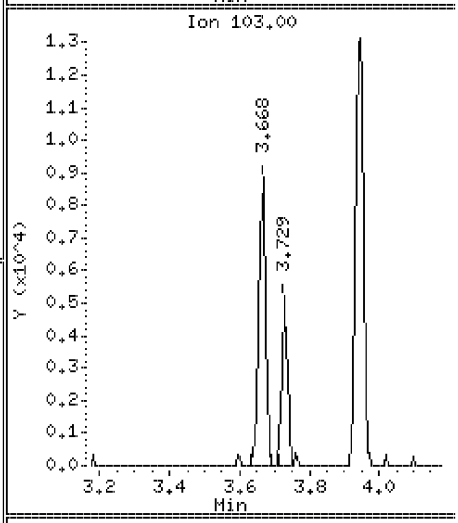


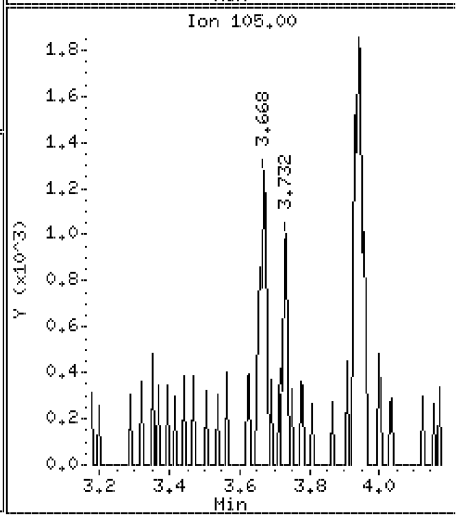












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

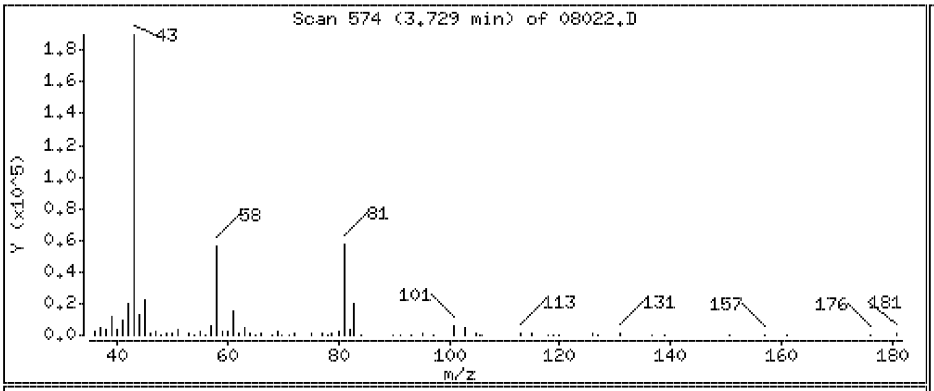
Operator: NCK

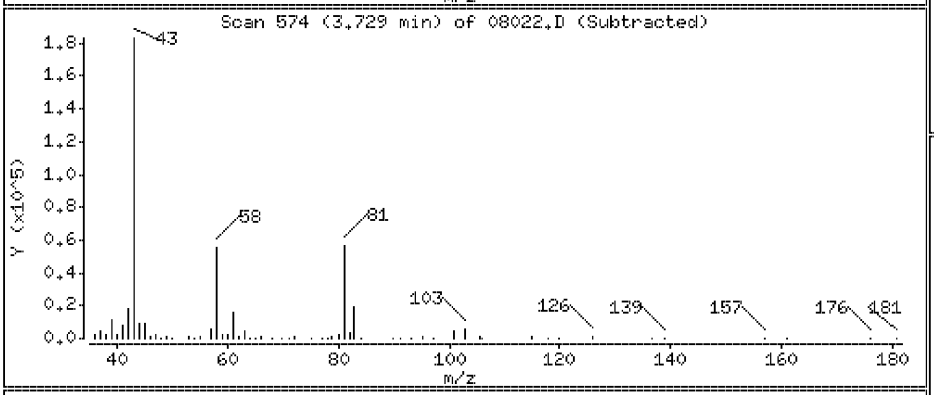
Column phase: J&W DB-5

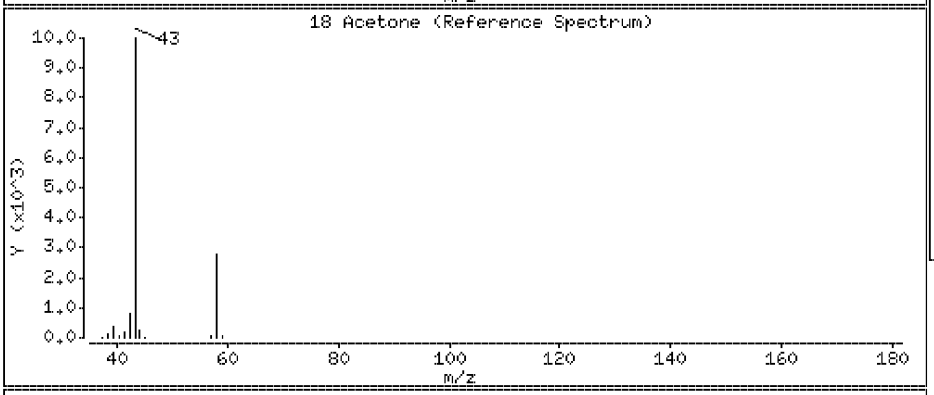
Column diameter: 0.32

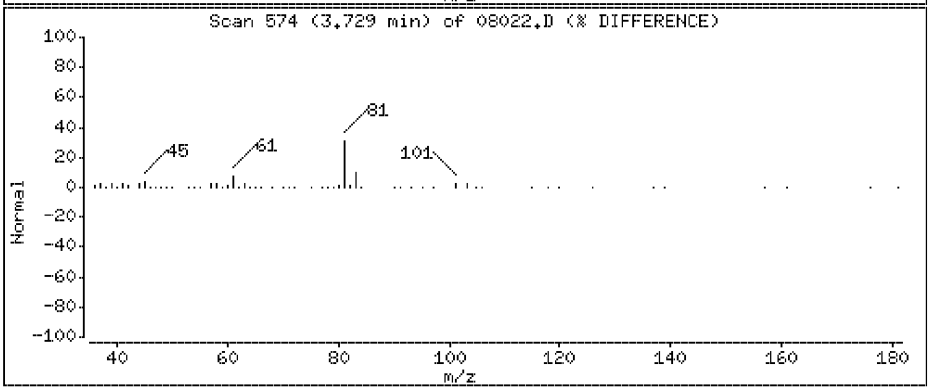
18 Acetone

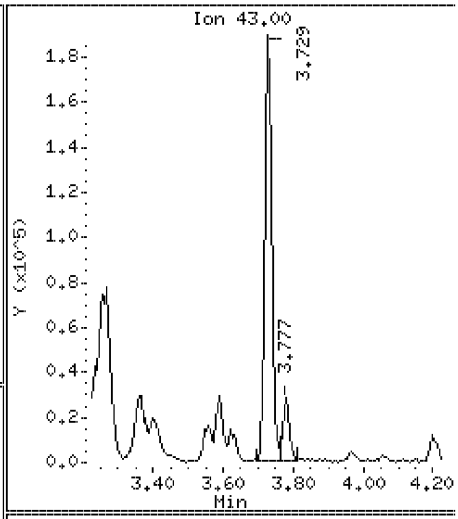
Concentration: 4.53 ppbv

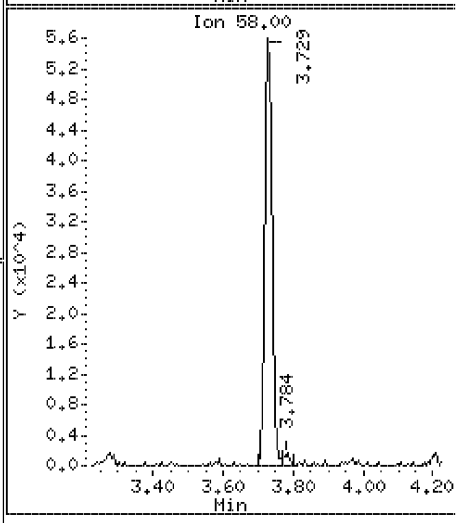












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

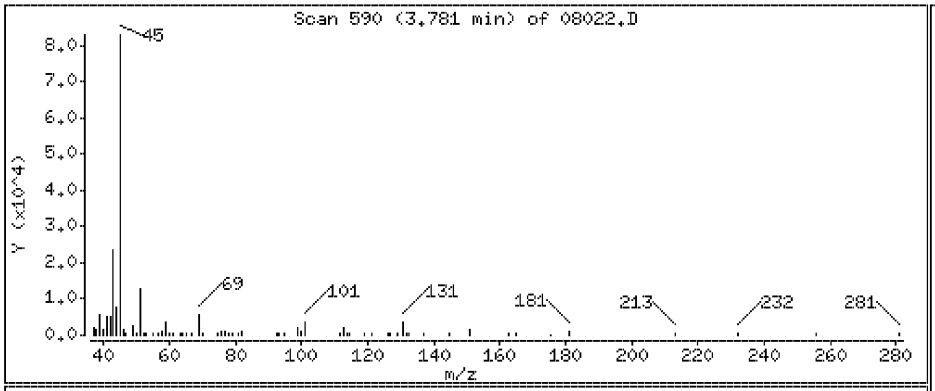
Operator: NCK

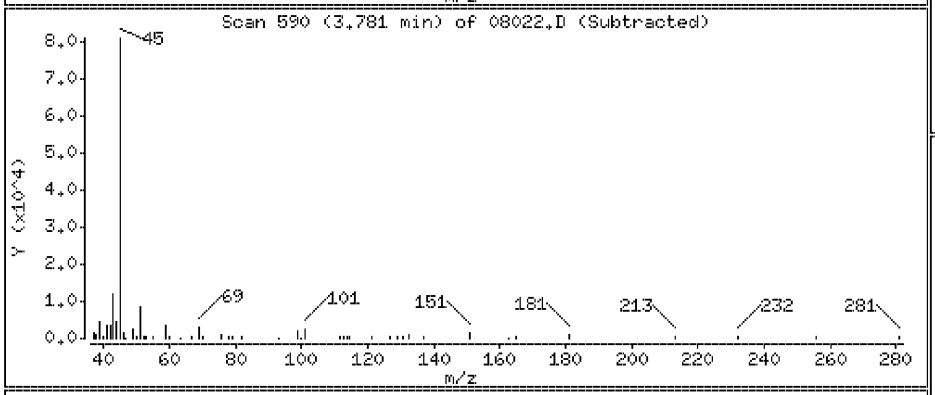
Column phase: J&W DB-5

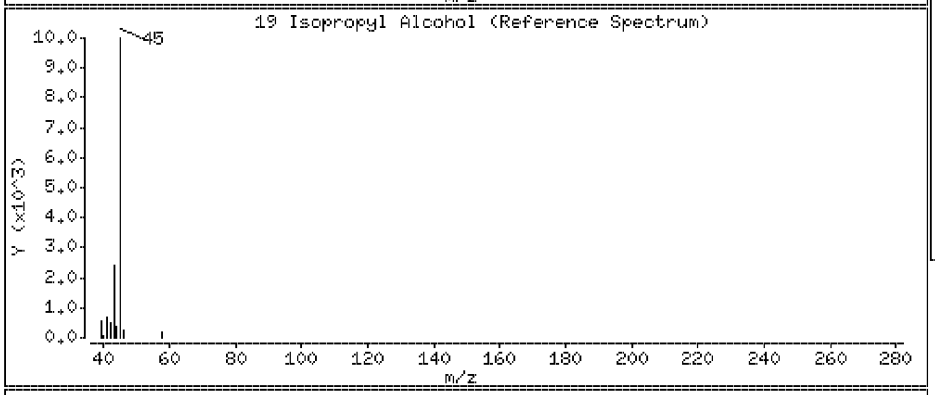
Column diameter: 0.32

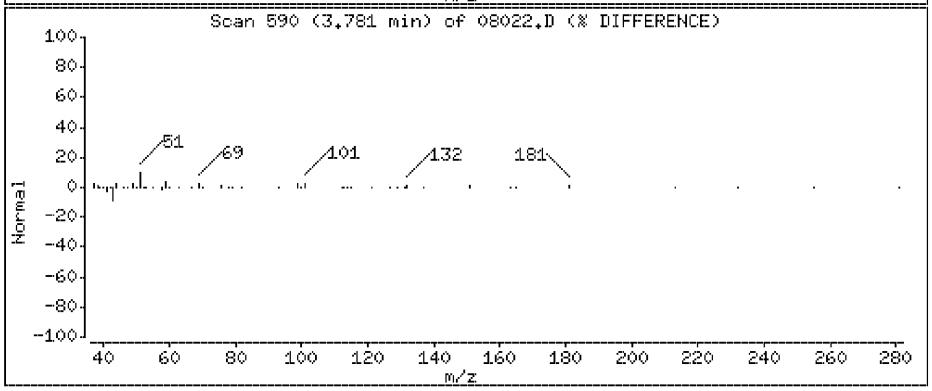
19 Isopropyl Alcohol

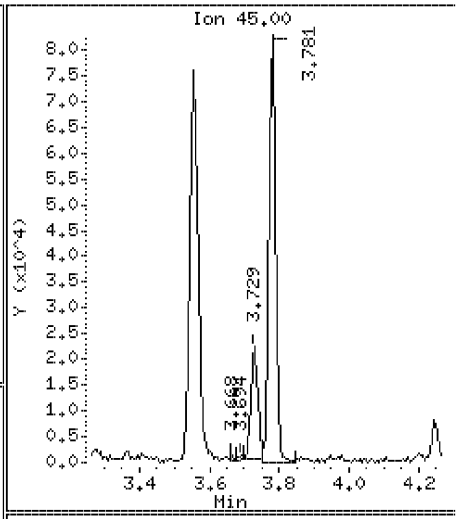
Concentration: 1.67 ppbv

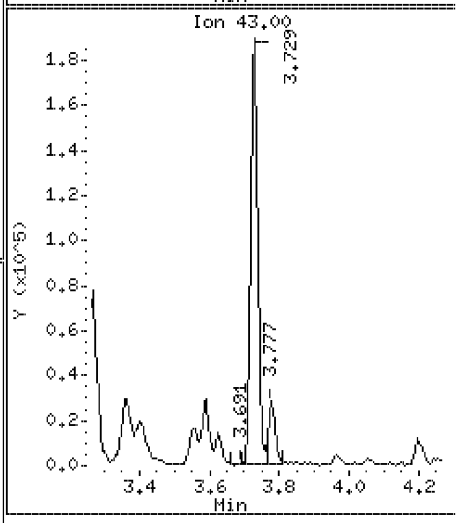












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

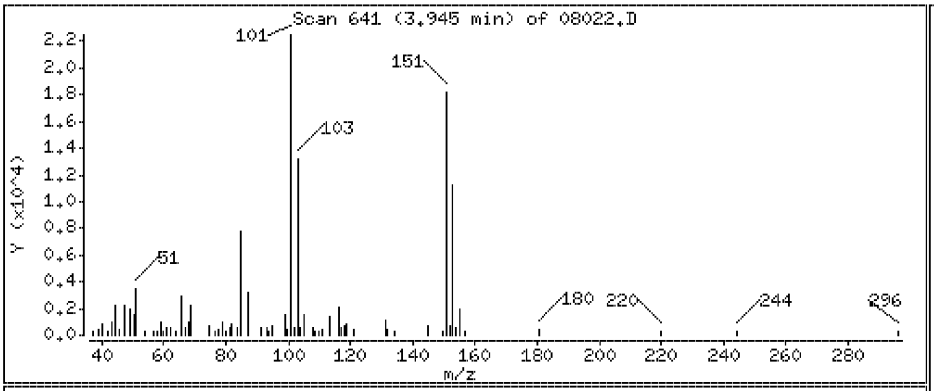
Operator: NCK

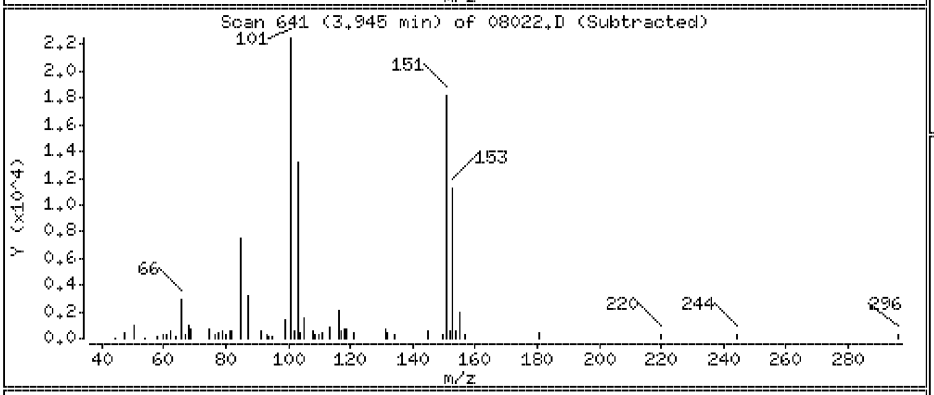
Column phase: J&W DB-5

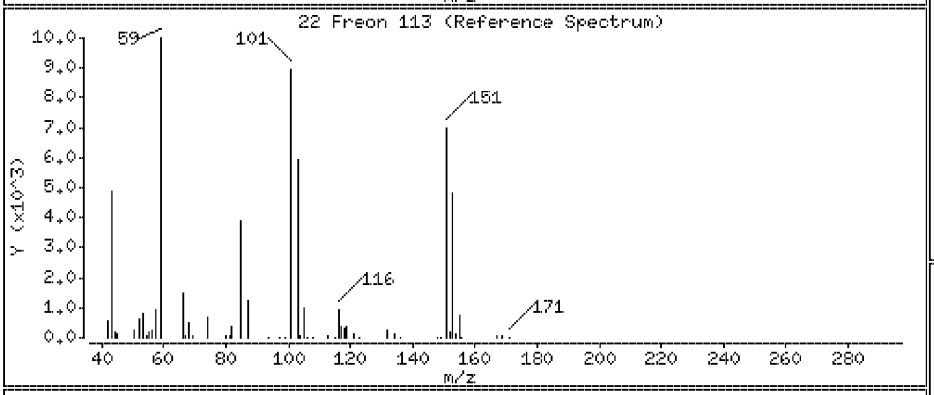
Column diameter: 0.32

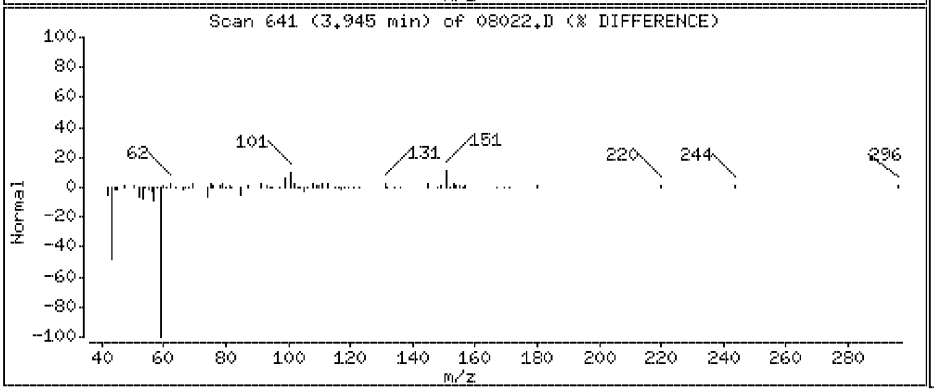
22 Freon 113

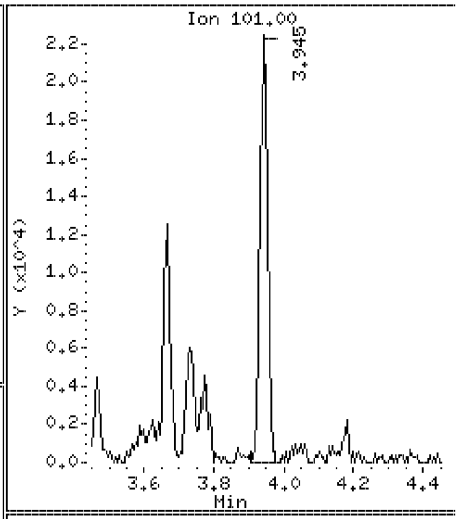
Concentration: 0.596 ppbv

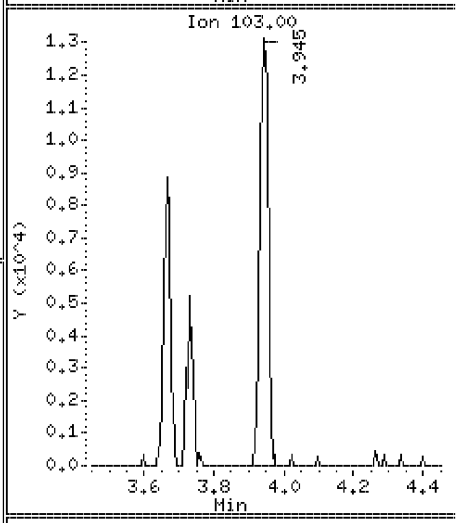


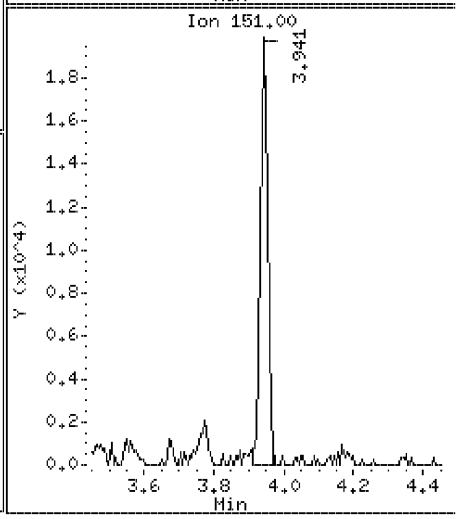












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

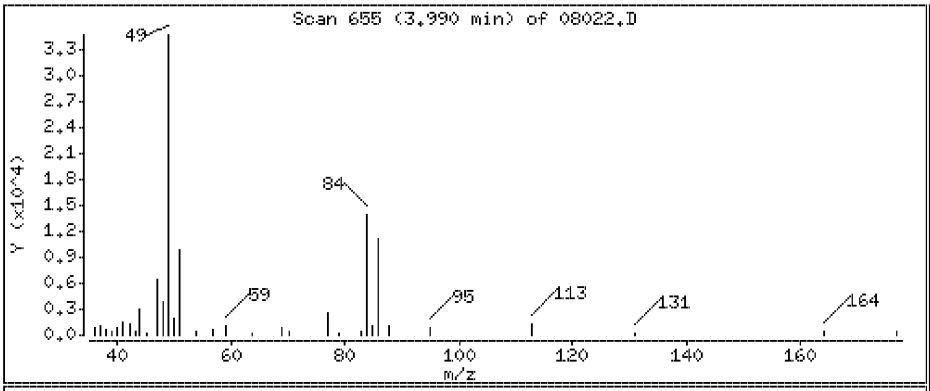
Operator: NCK

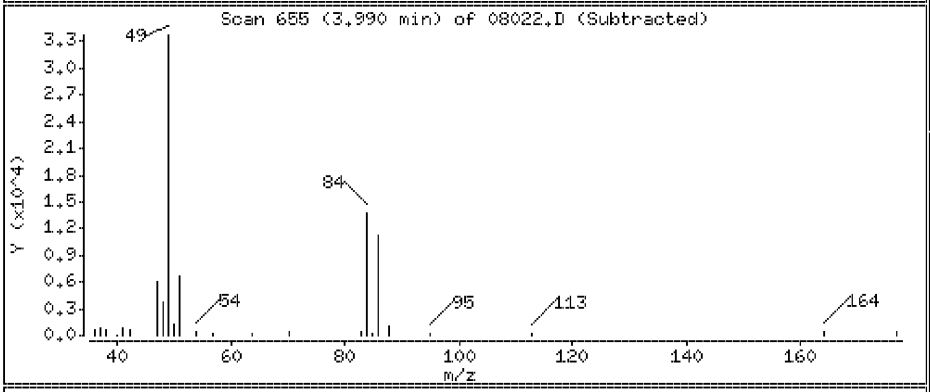
Column phase: J&W DB-5

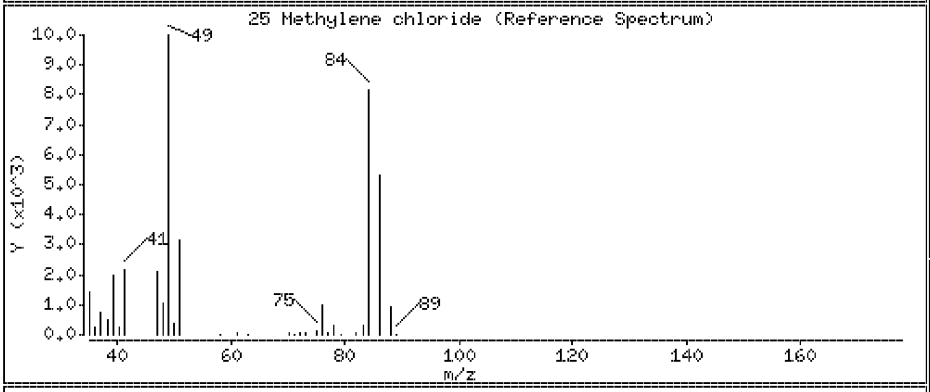
Column diameter: 0.32

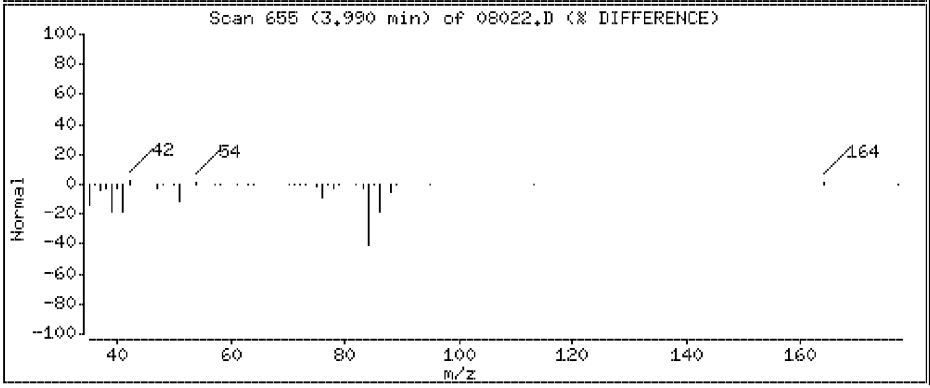
25 Methylene chloride

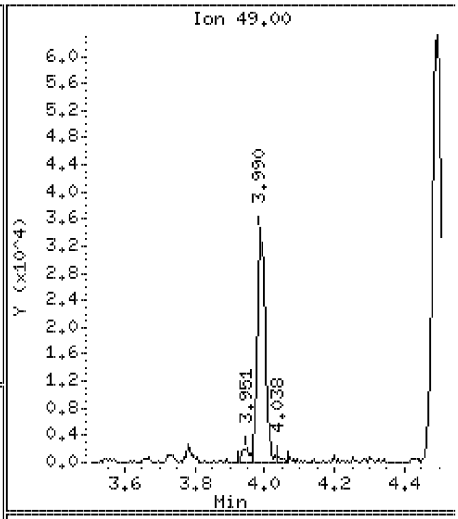
Concentration: 1.13 ppbv

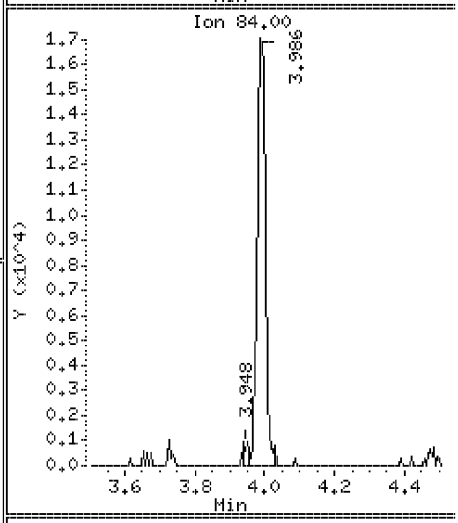


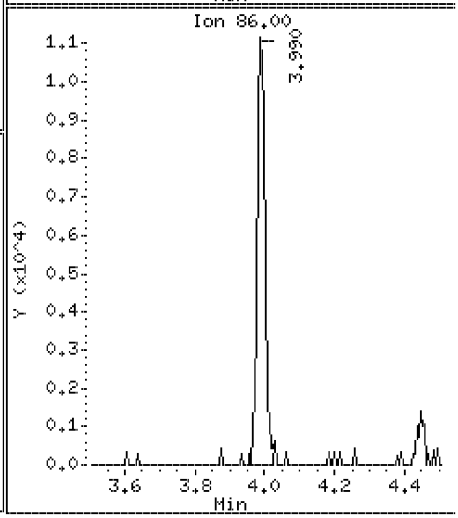












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

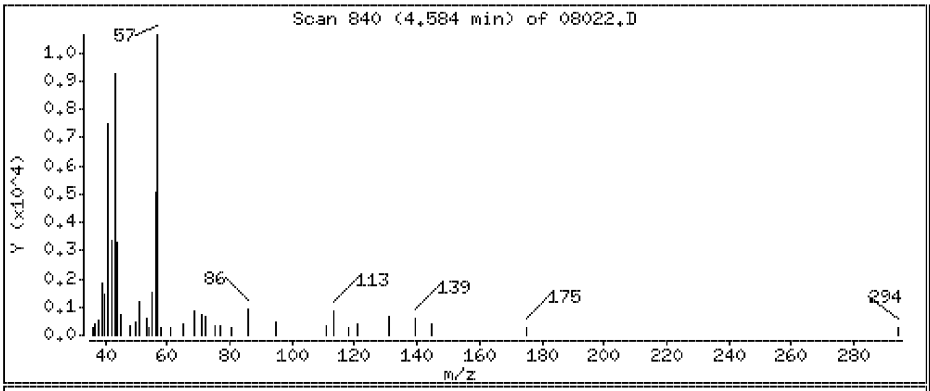
Operator: NCK

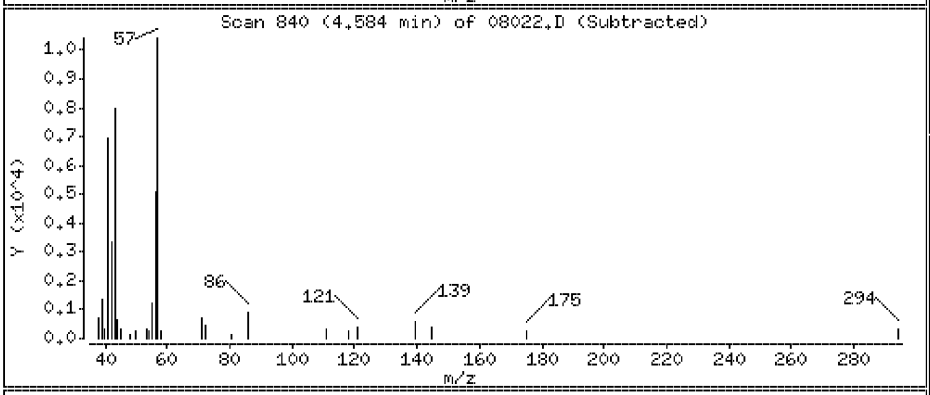
Column phase: J&W DB-5

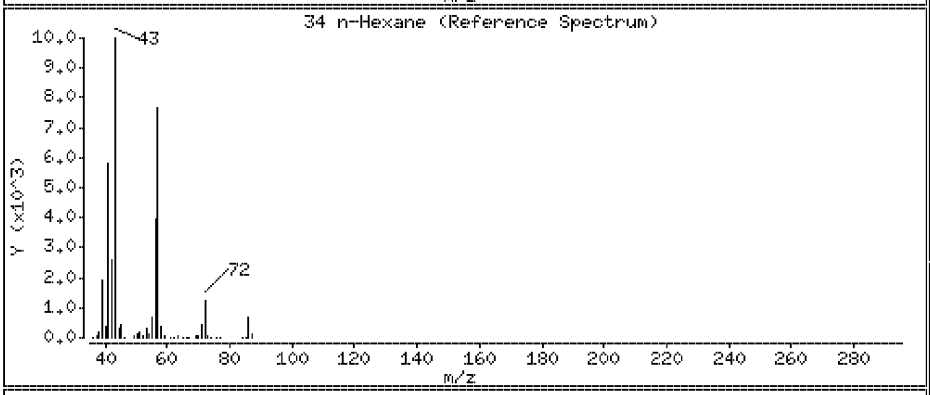
Column diameter: 0.32

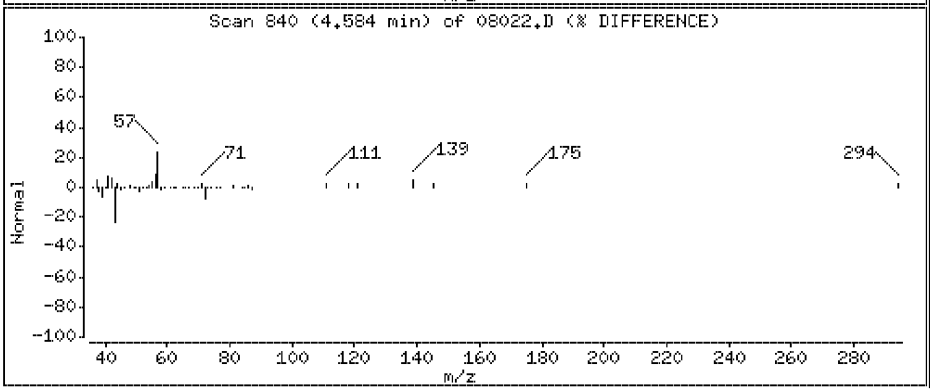
34 n-Hexane

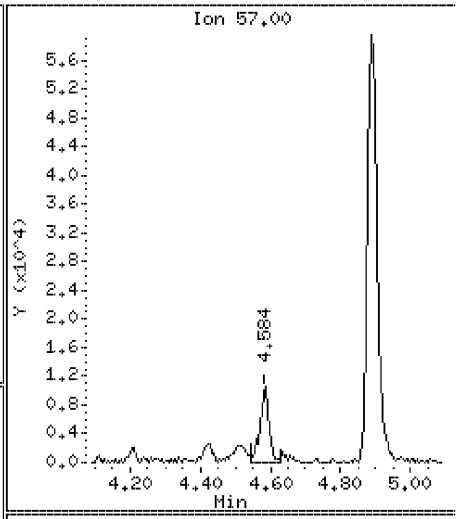
Concentration: 0.316 ppbv

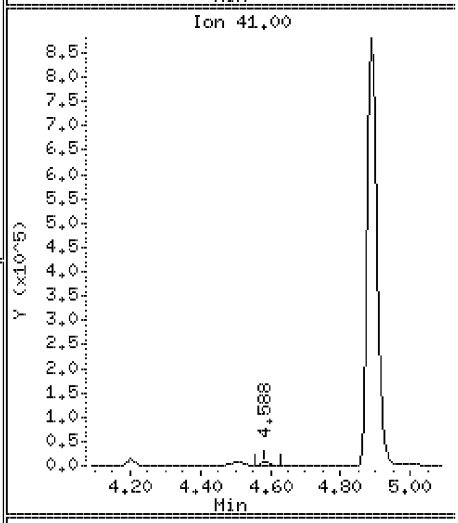


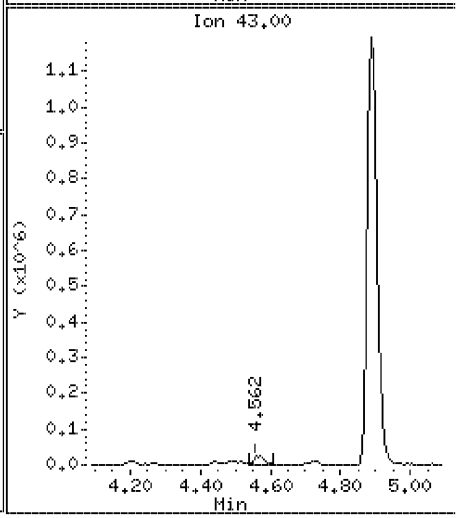












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

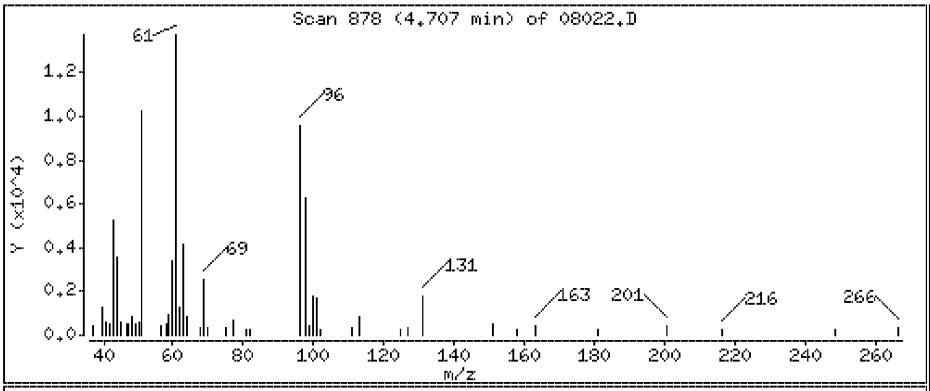
Operator: NCK

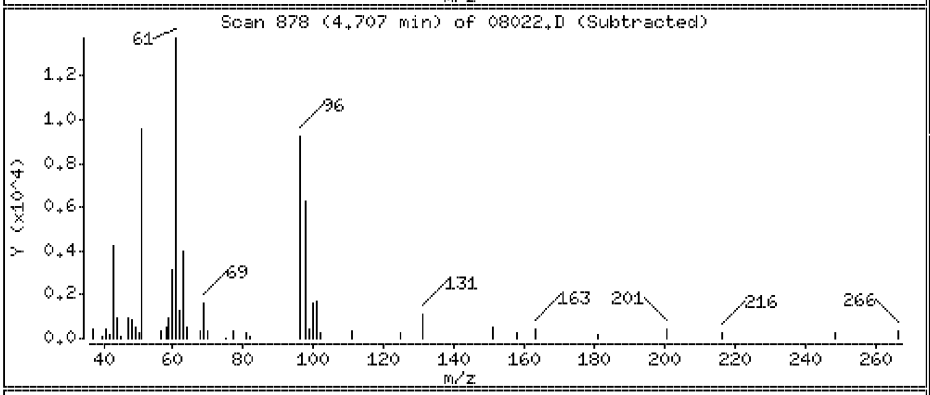
Column phase: J&W DB-5

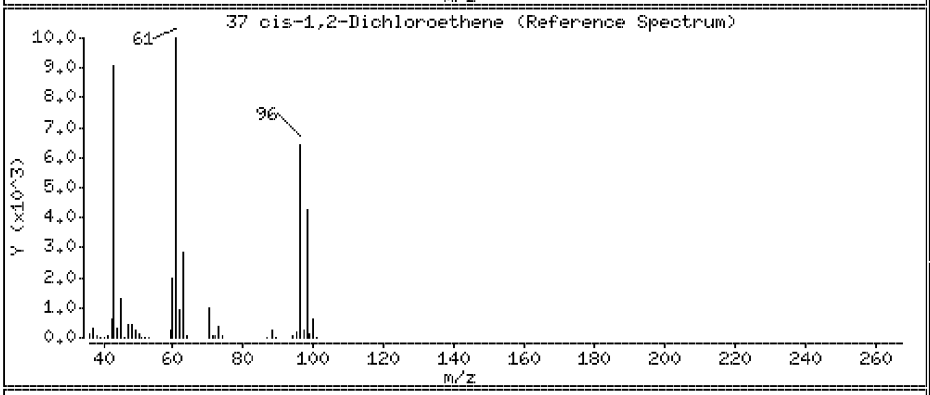
Column diameter: 0.32

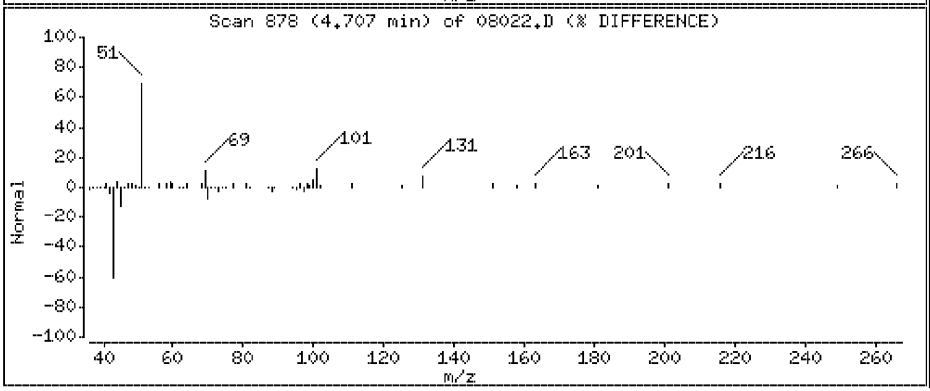
37 cis-1,2-Dichloroethene

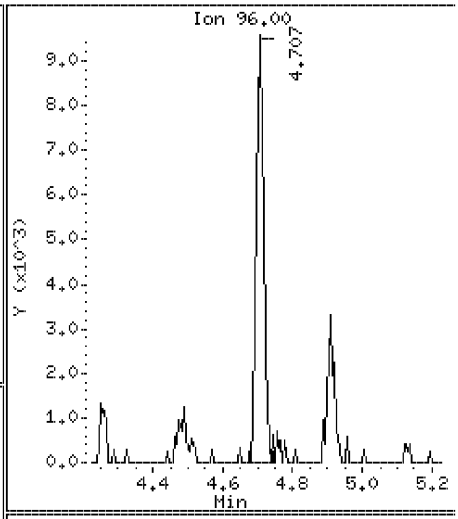
Concentration: 0.443 ppbv

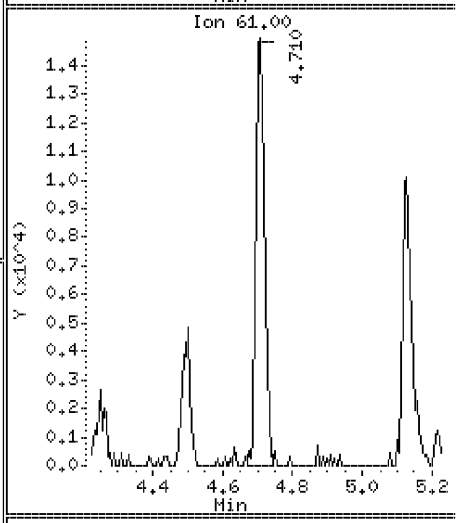


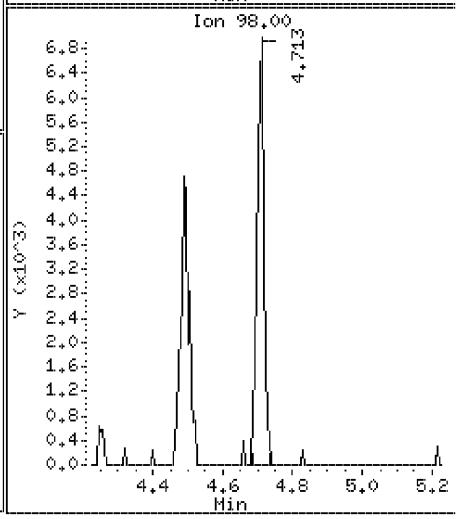












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

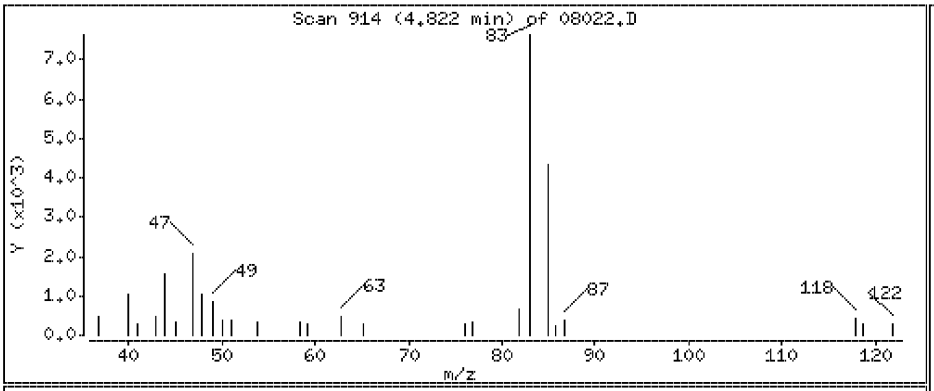
Operator: NCK

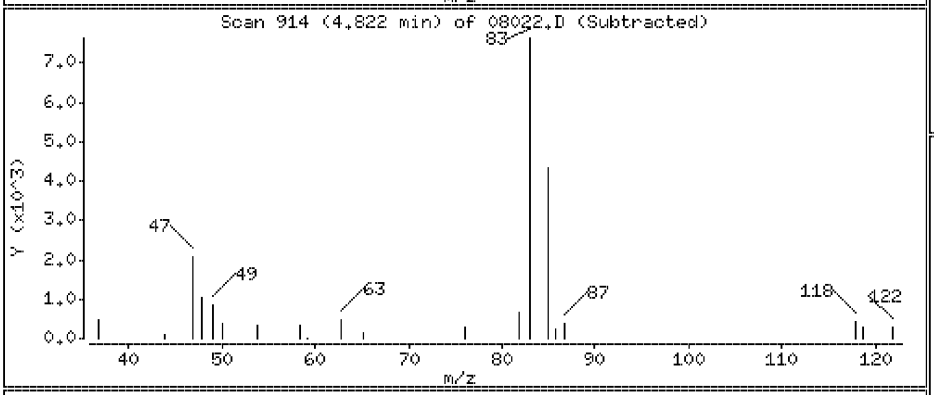
Column phase: J&W DB-5

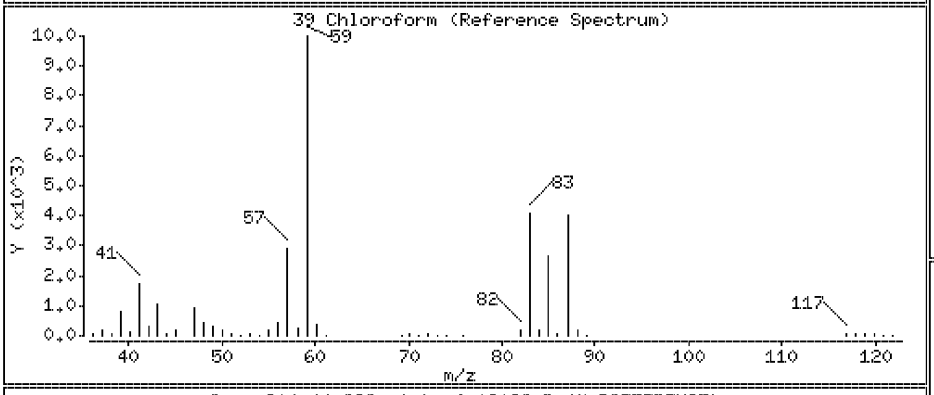
Column diameter: 0.32

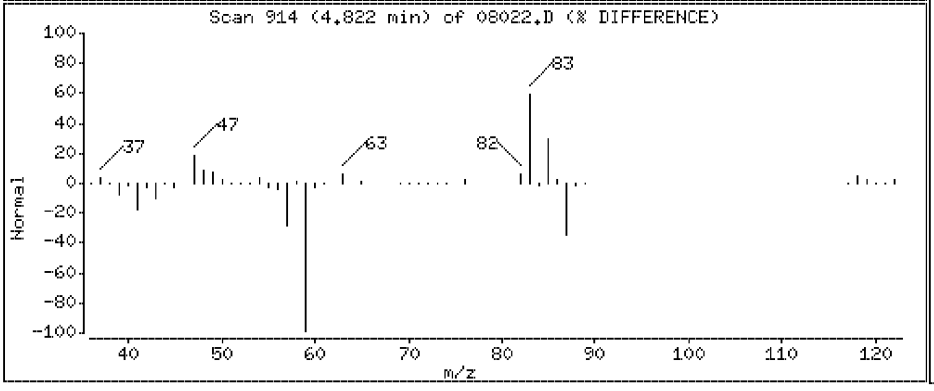
39 Chloroform

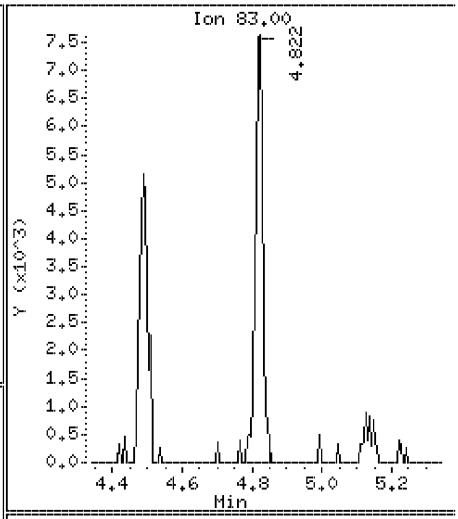
Concentration: 0.164 ppbv

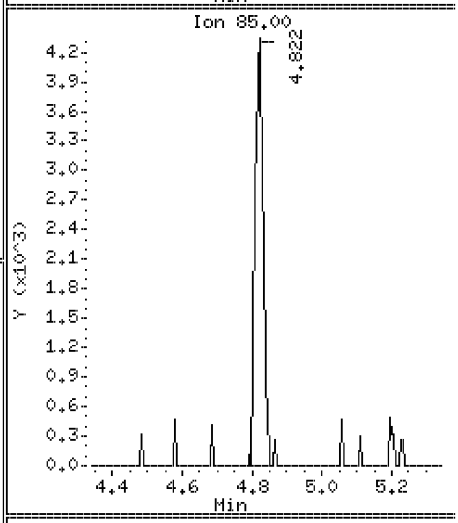


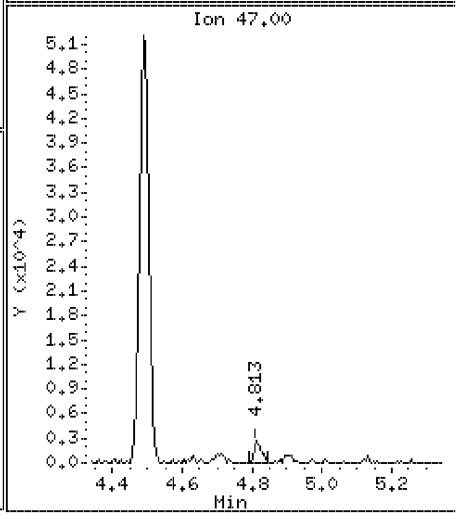












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

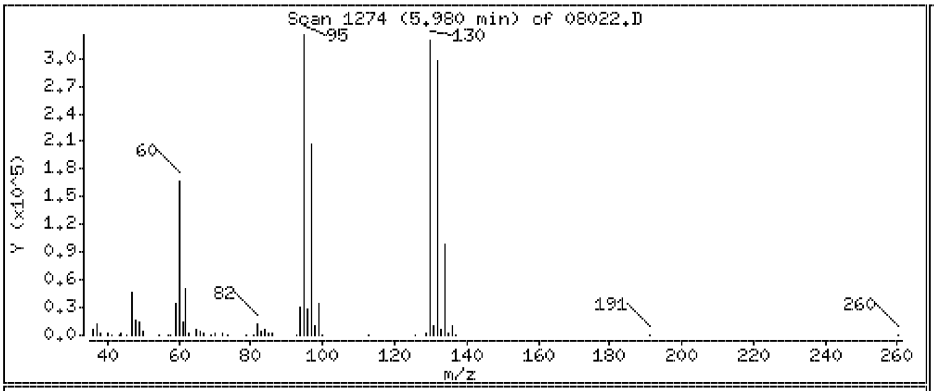
Operator: NCK

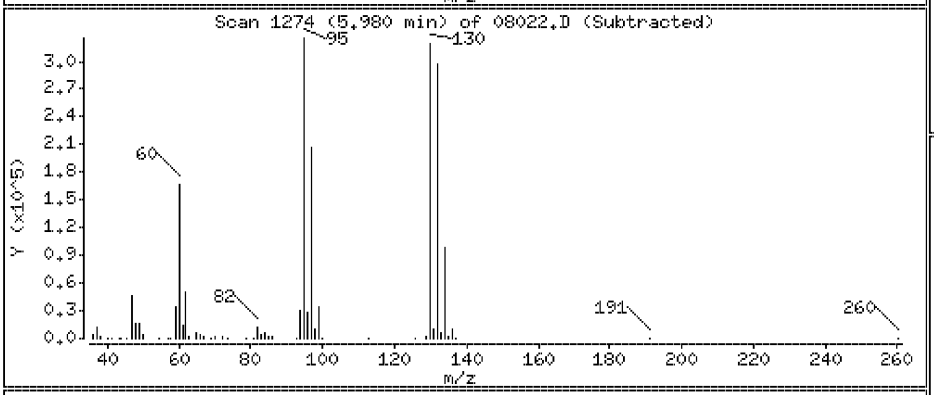
Column phase: J&W DB-5

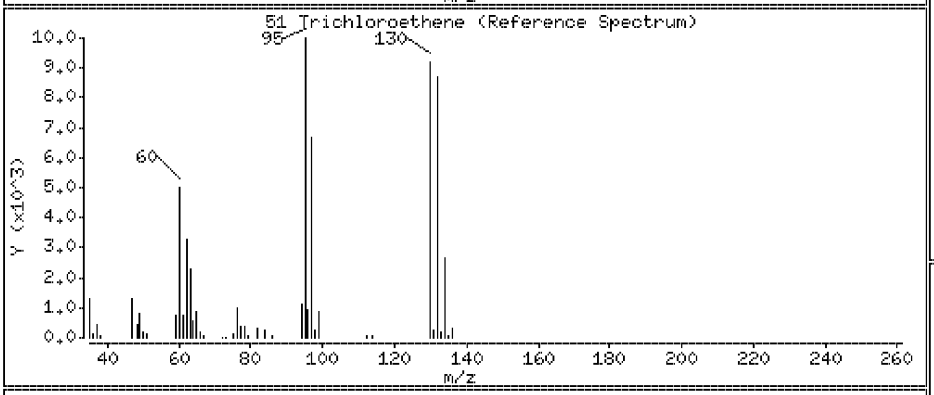
Column diameter: 0.32

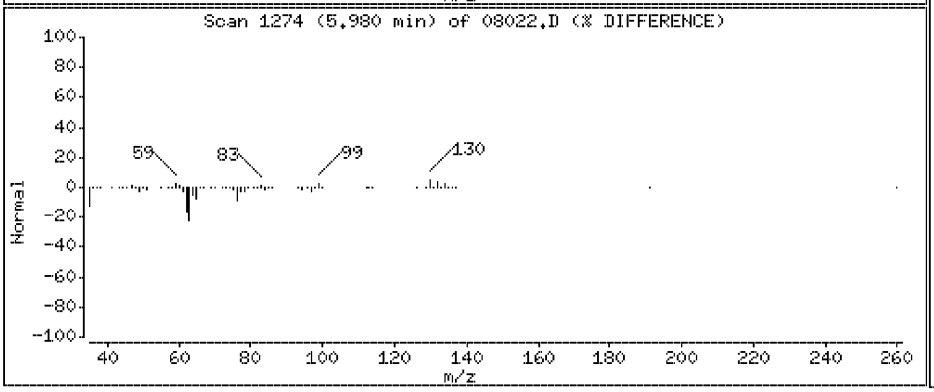
51 Trichloroethene

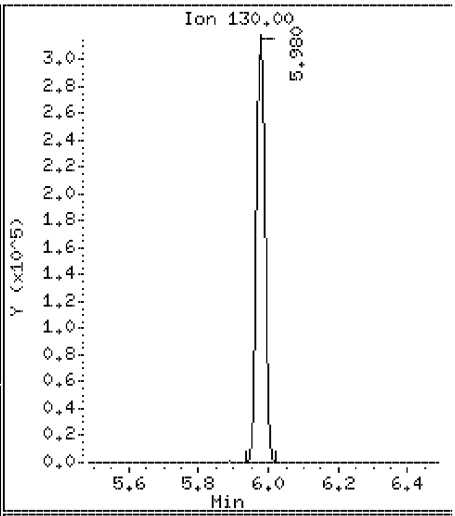
Concentration: 10.9 ppbv

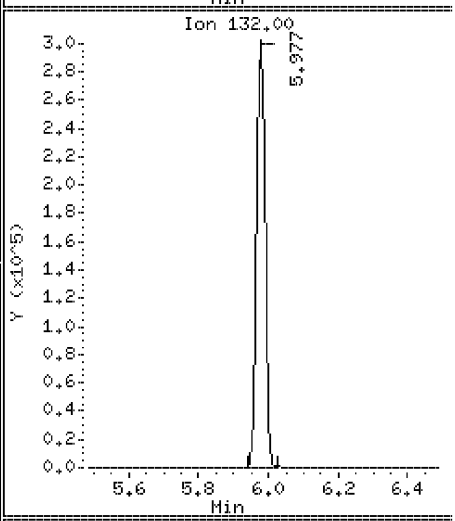


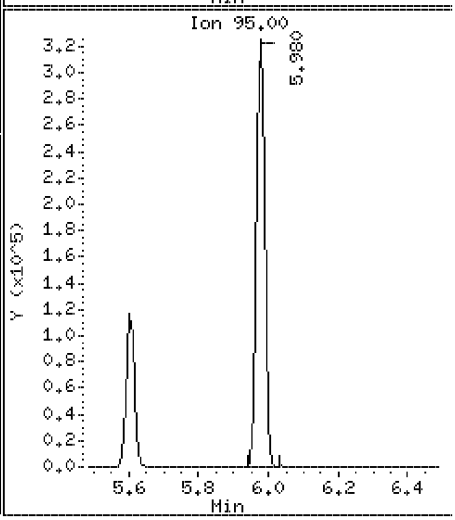












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

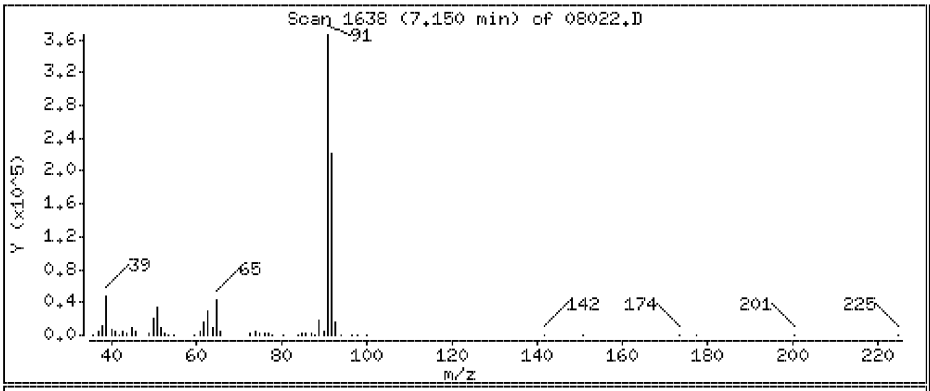
Operator: NCK

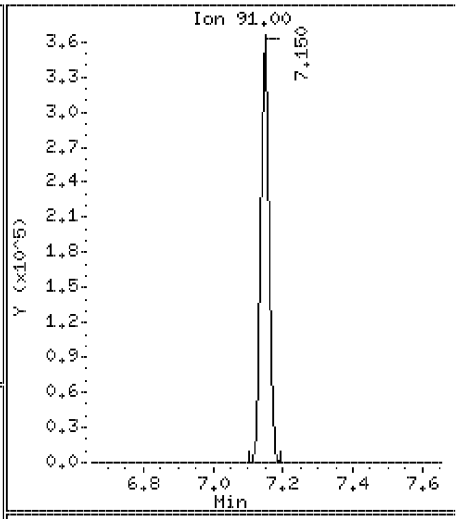
Column phase: J&W DB-5

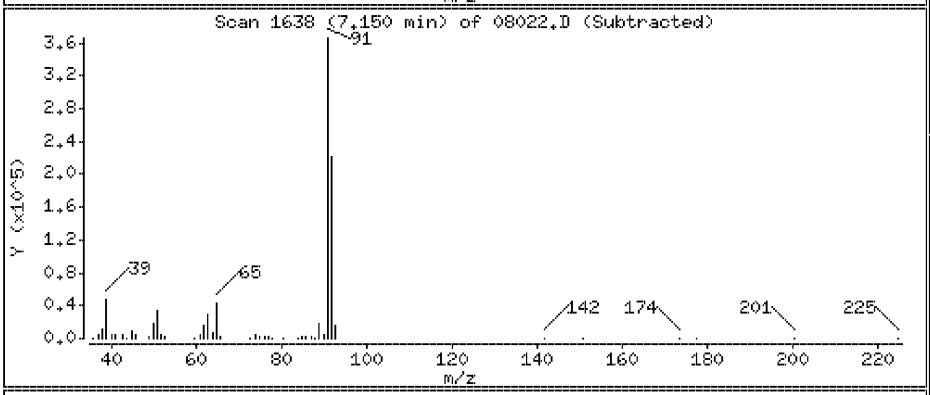
Column diameter: 0.32

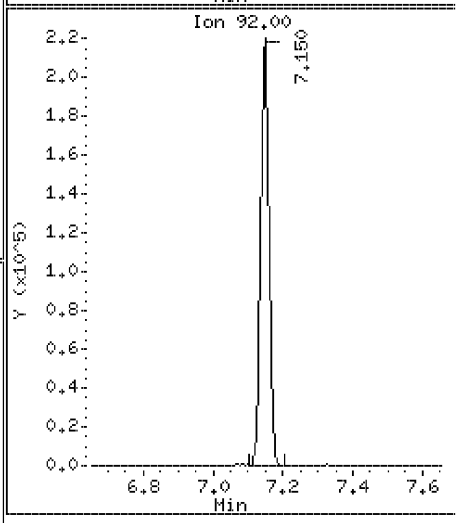
61 Toluene

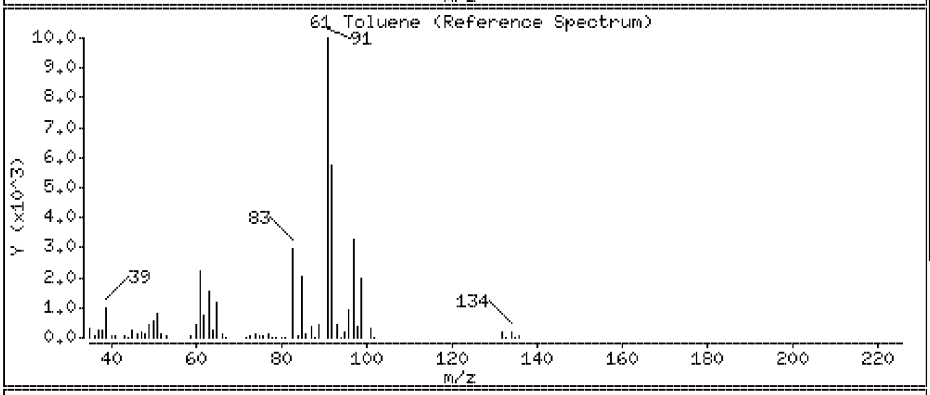
Concentration: 4.93 ppbv

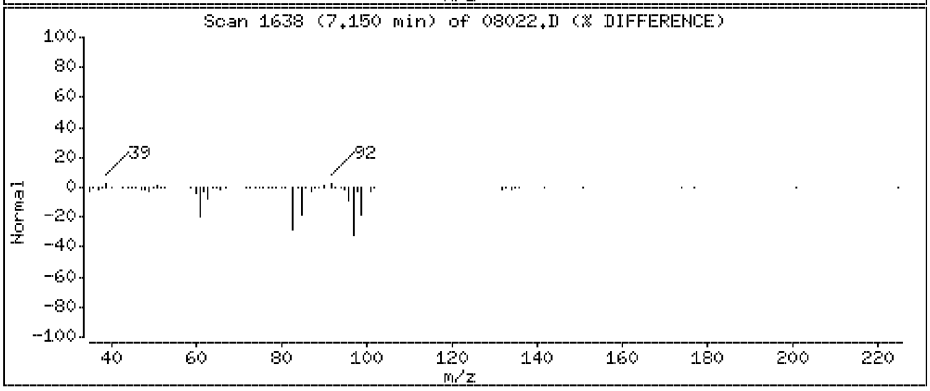












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

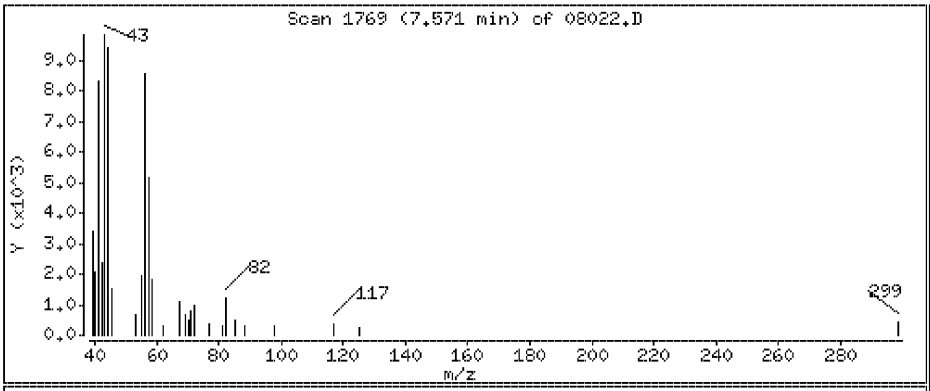
Operator: NCK

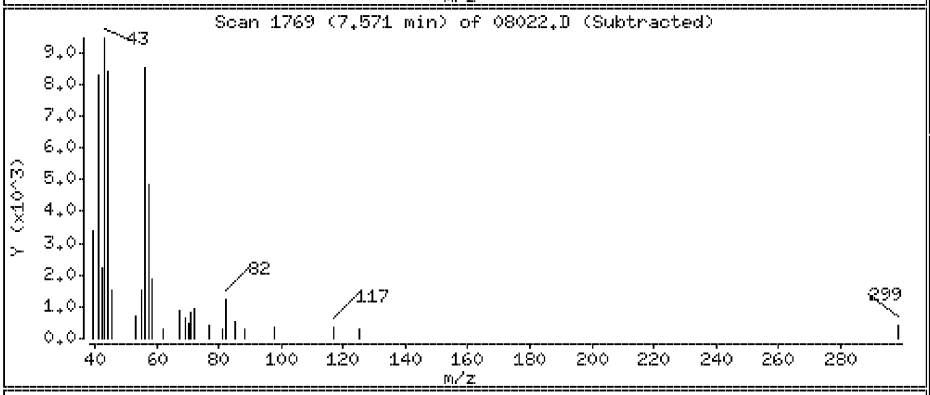
Column phase: J&W DB-5

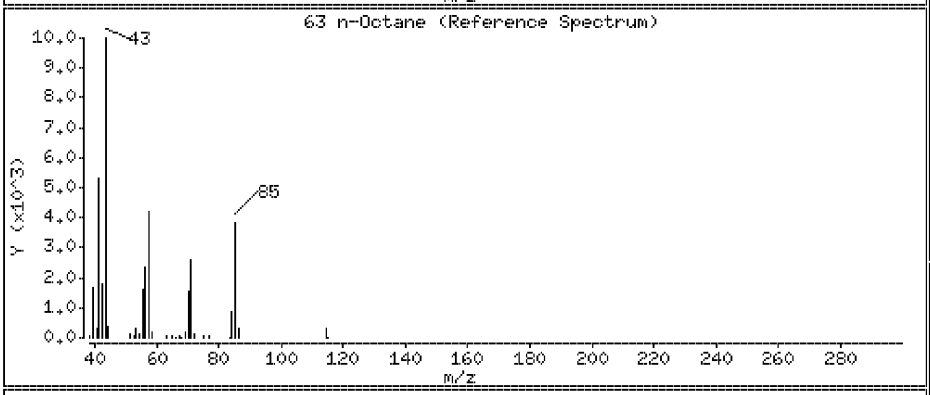
Column diameter: 0.32

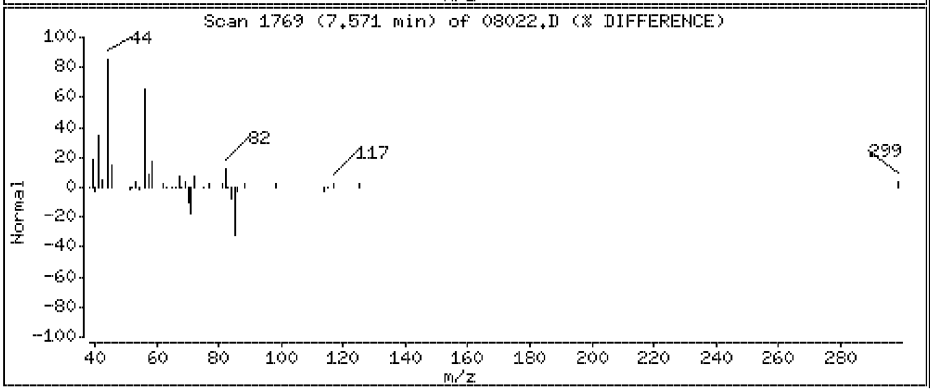
63 n-Octane

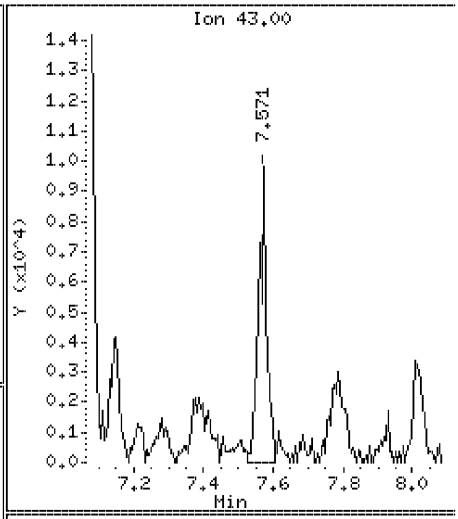
Concentration: 0.183 ppbv

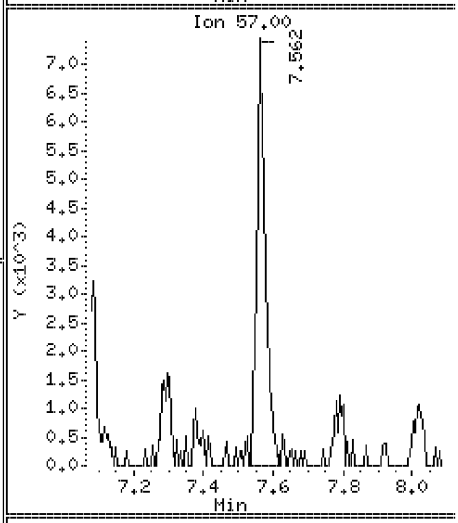


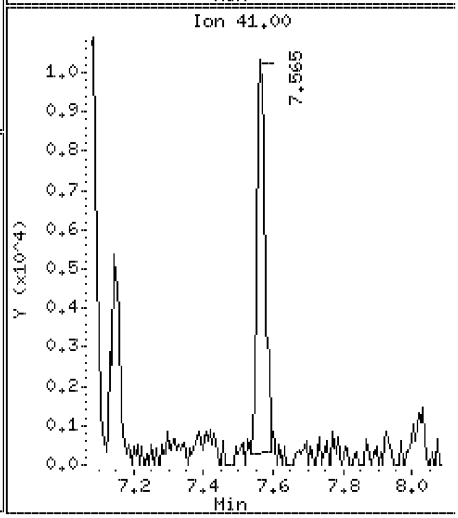












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

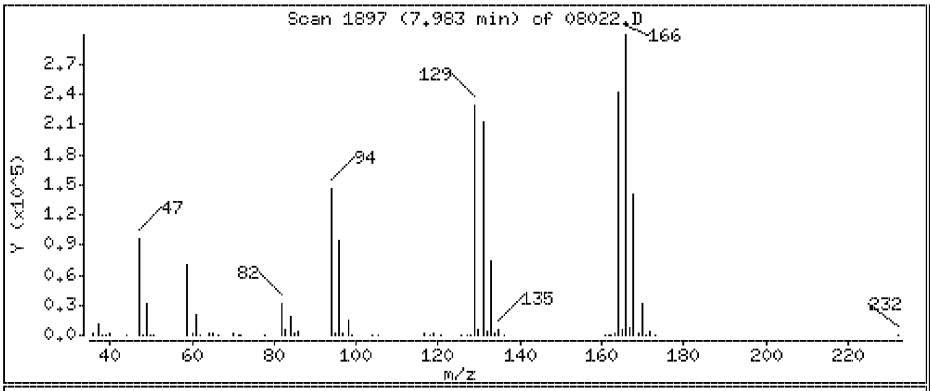
Operator: NCK

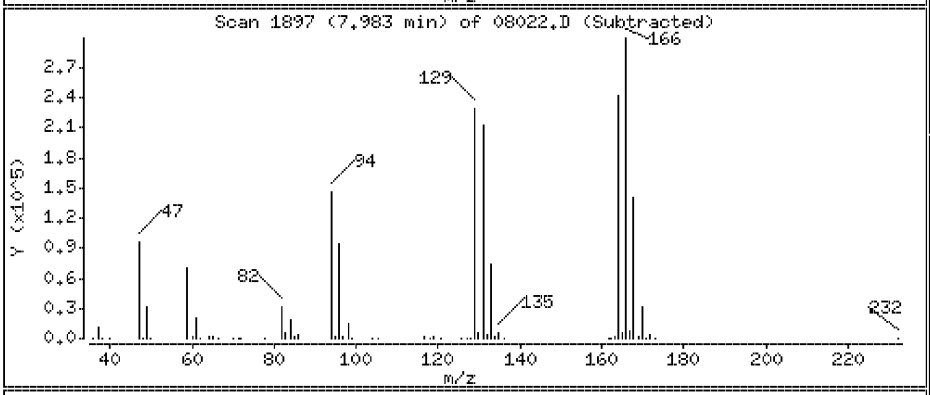
Column phase: J&W DB-5

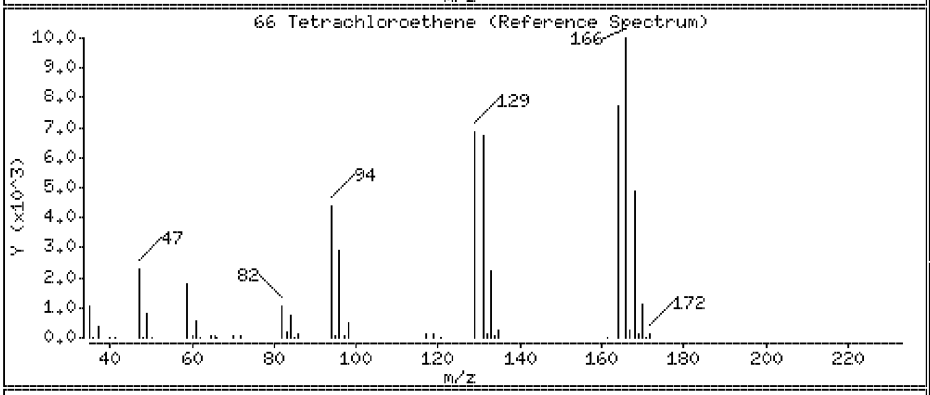
Column diameter: 0.32

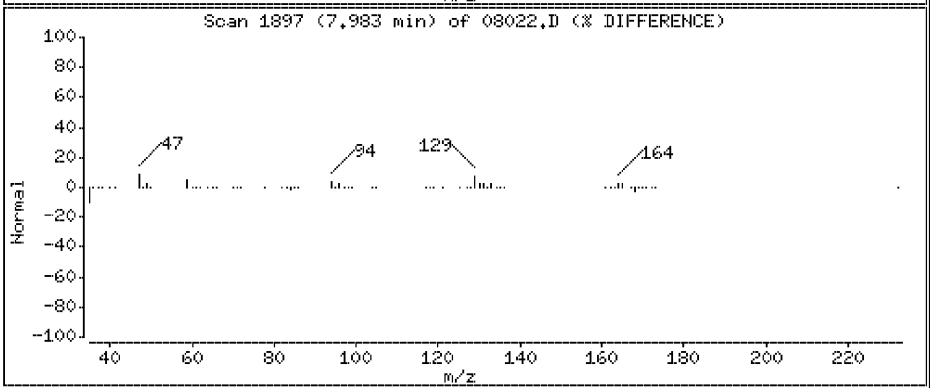
66 Tetrachloroethene

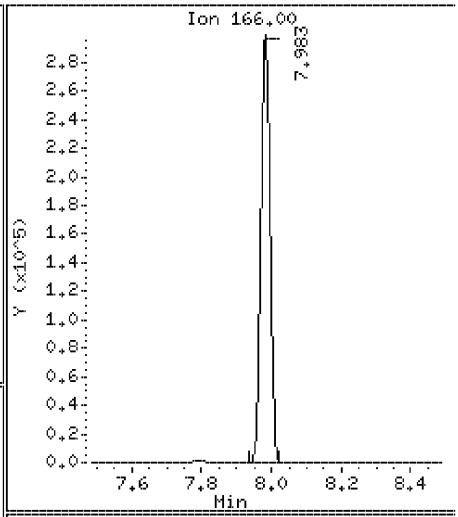
Concentration: 10.4 ppbv

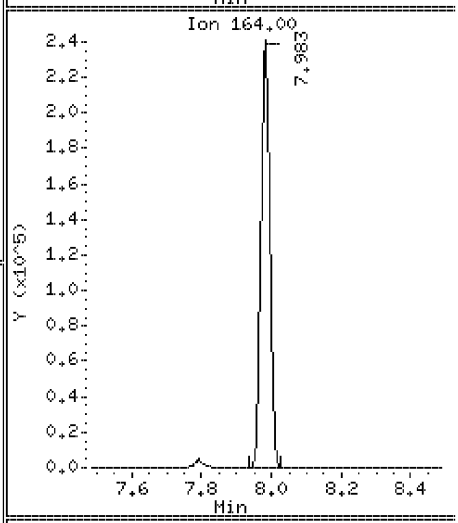


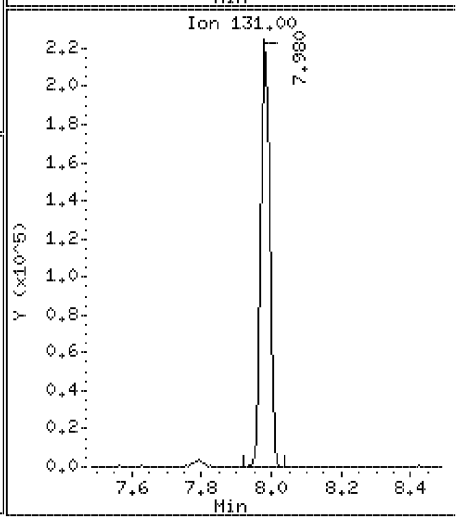












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

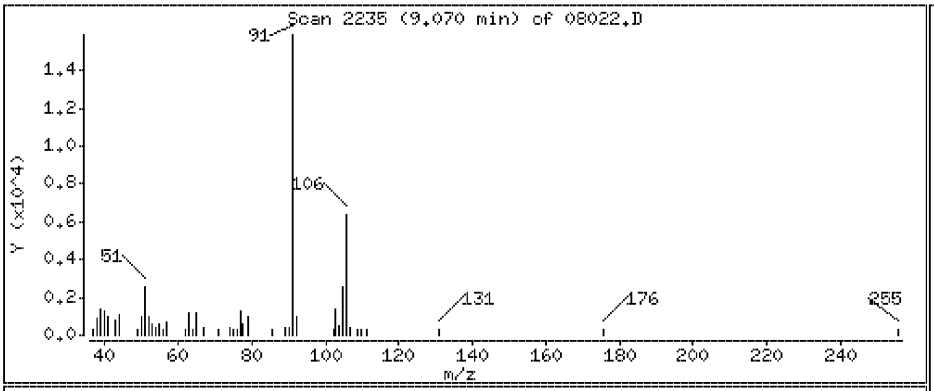
Operator: NCK

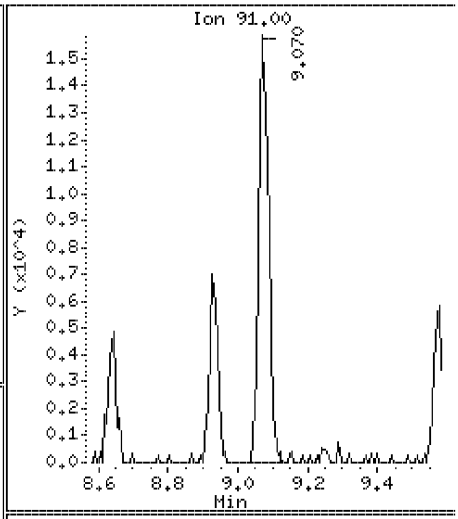
Column phase: J&W DB-5

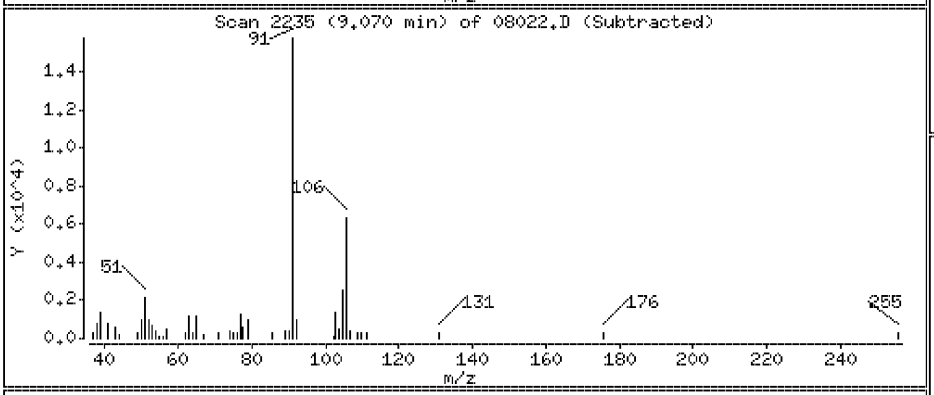
Column diameter: 0.32

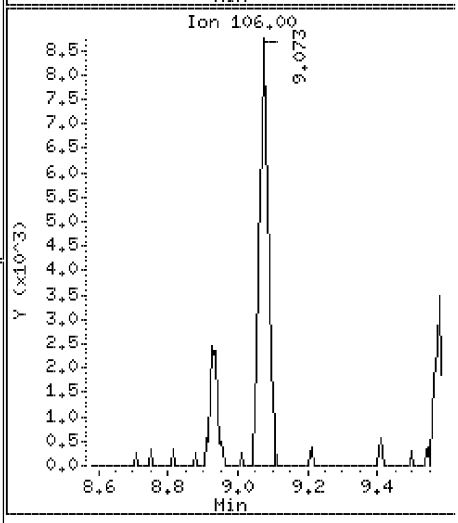
70 m&p-Xylene

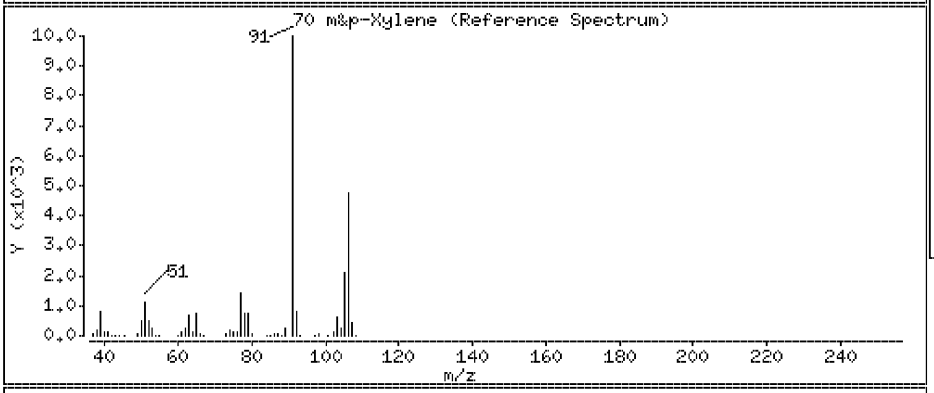
Concentration: 0.569 ppbv

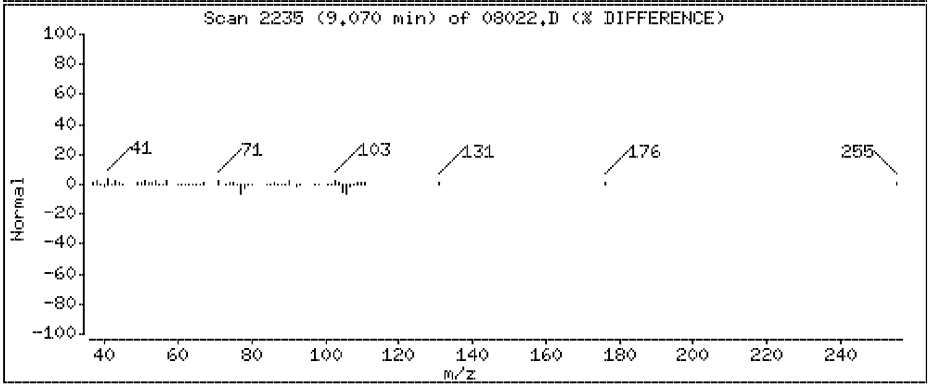












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

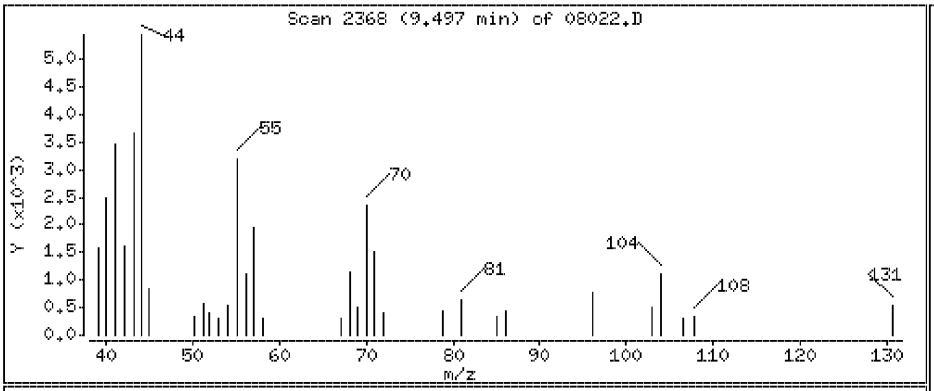
Operator: NCK

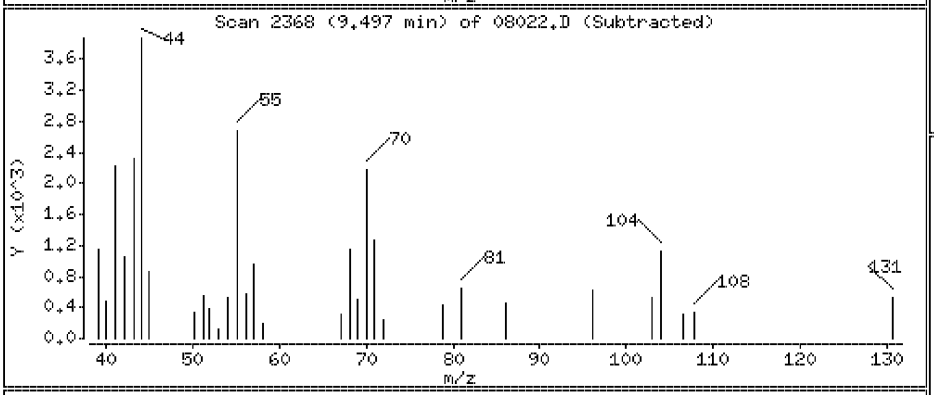
Column phase: J&W DB-5

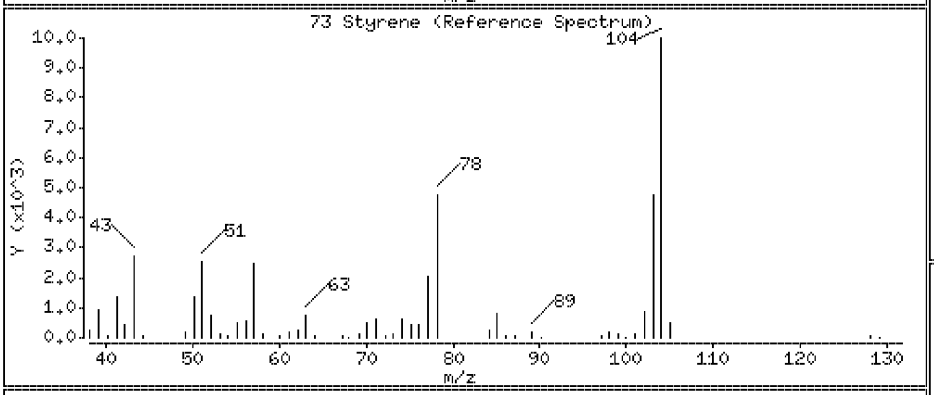
Column diameter: 0.32

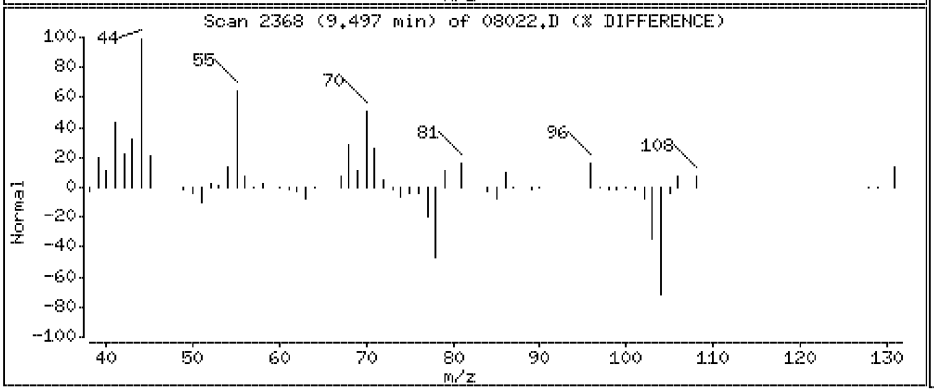
73 Styrene

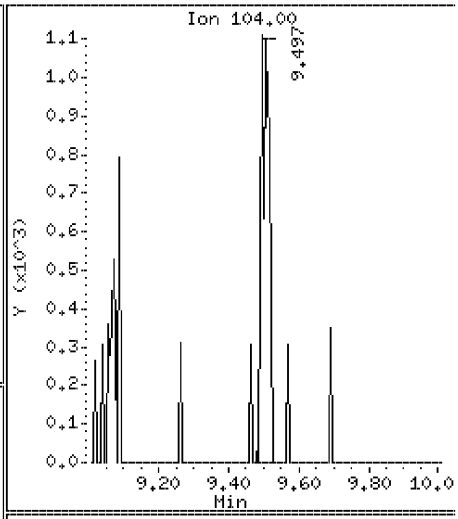
Concentration: 0.269 ppbv

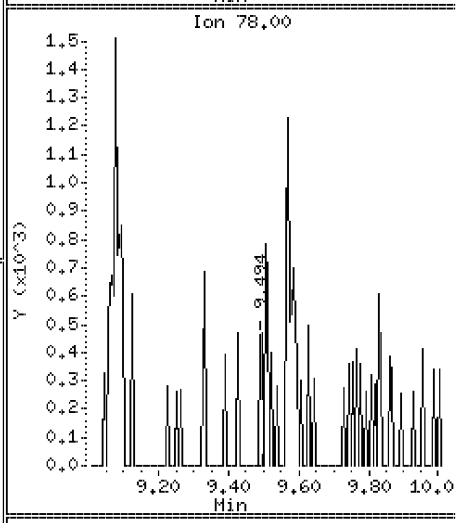


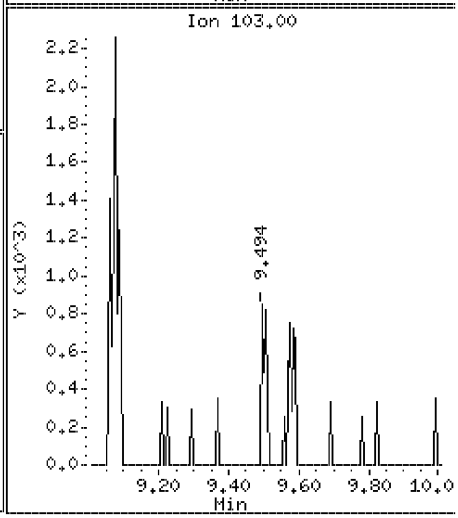












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

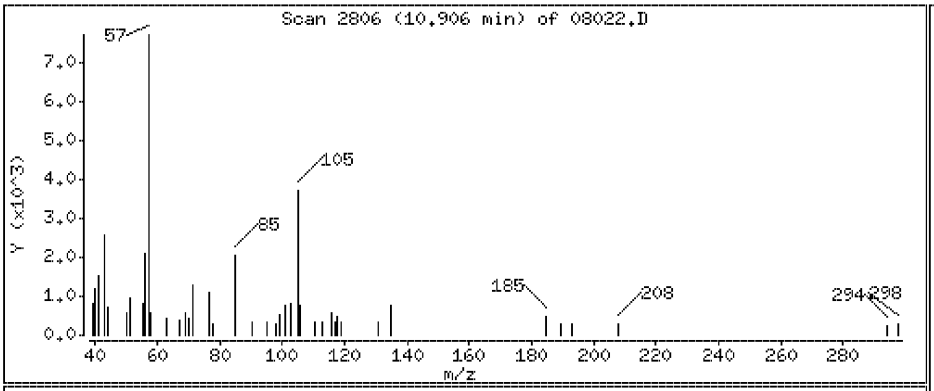
Operator: NCK

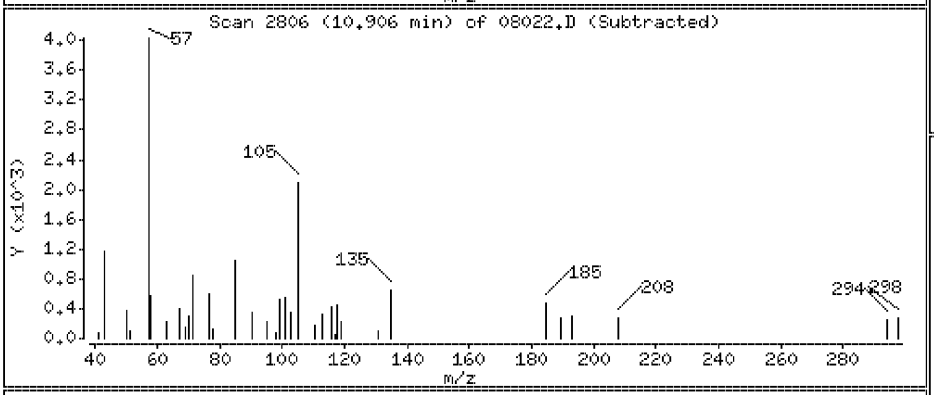
Column phase: J&W DB-5

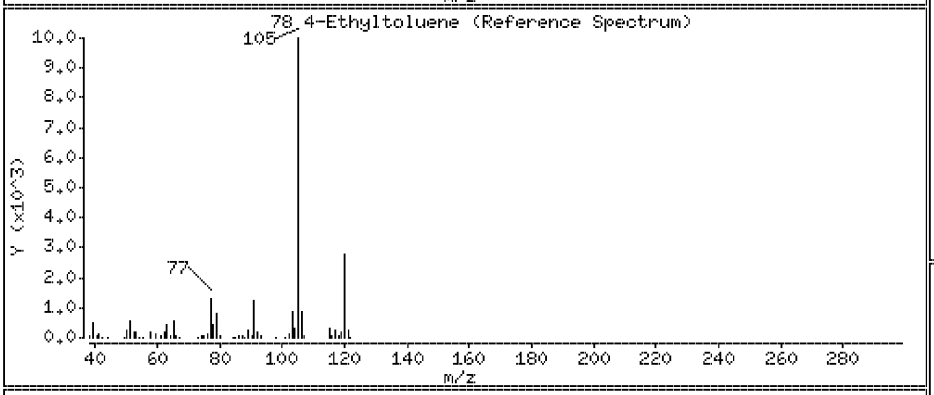
Column diameter: 0.32

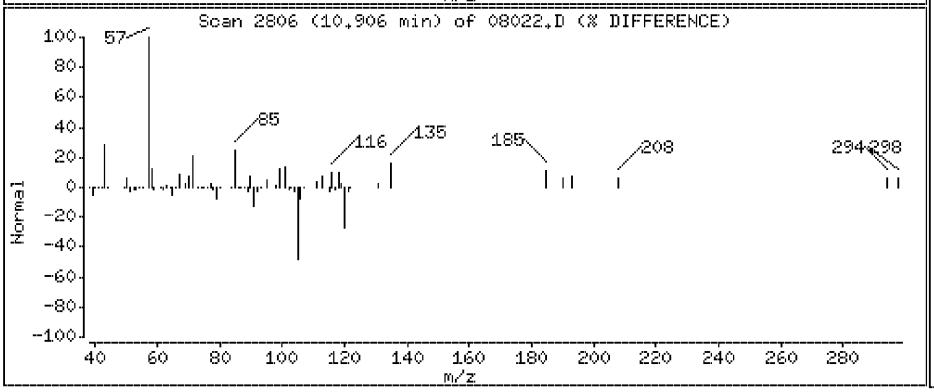
78 4-Ethyltoluene

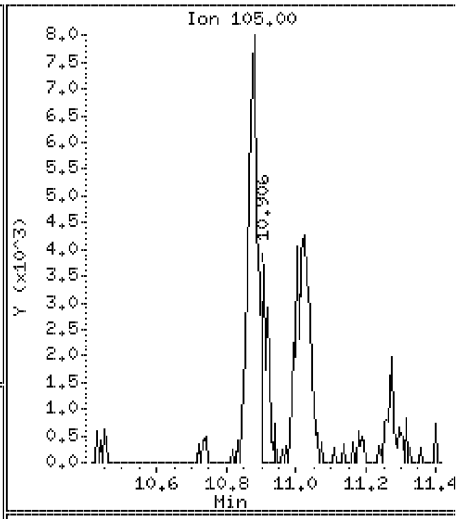
Concentration: 0.332 ppbv

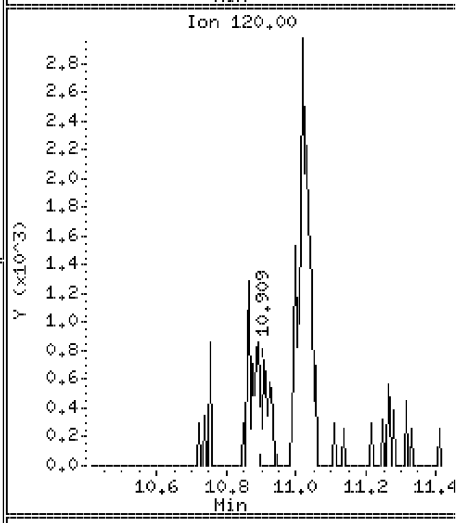


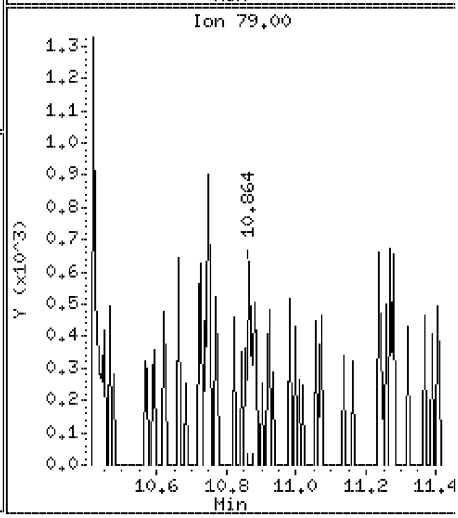












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

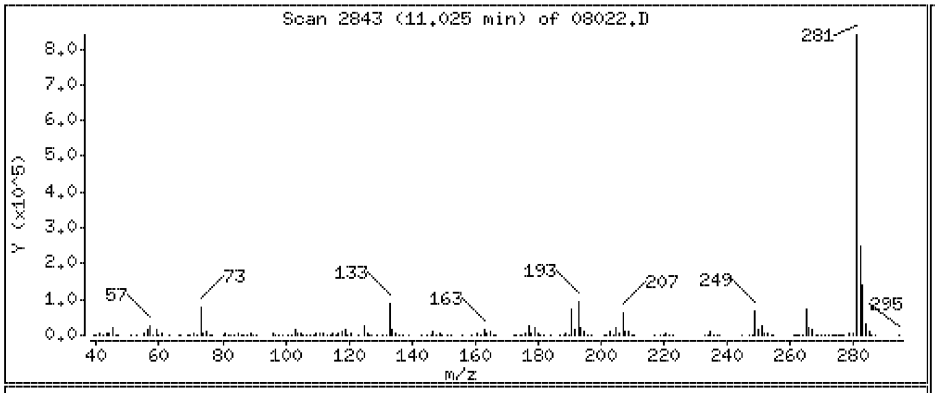
Operator: NCK

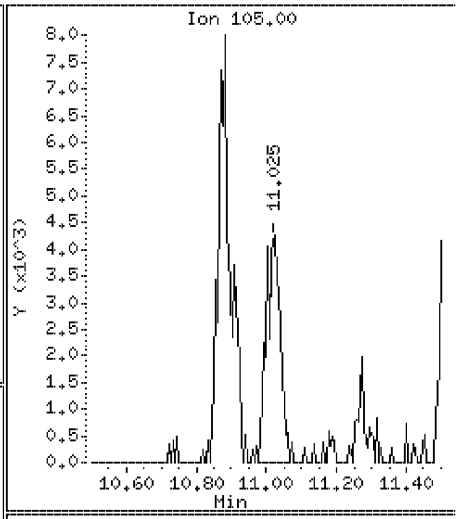
Column phase: J&W DB-5

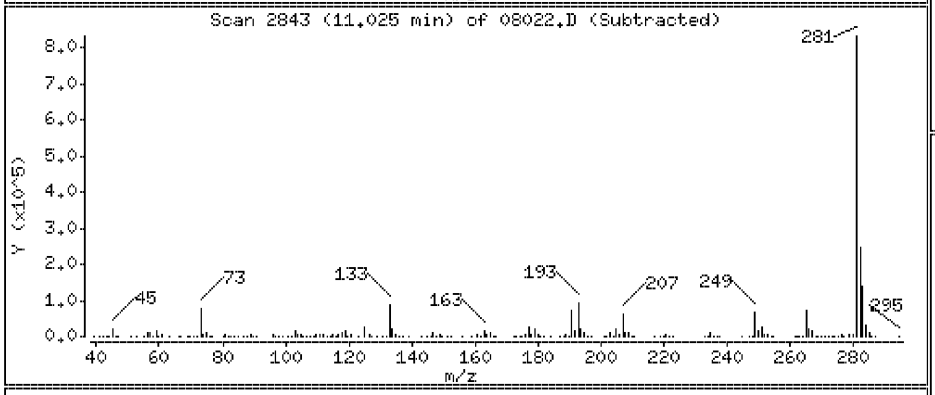
Column diameter: 0.32

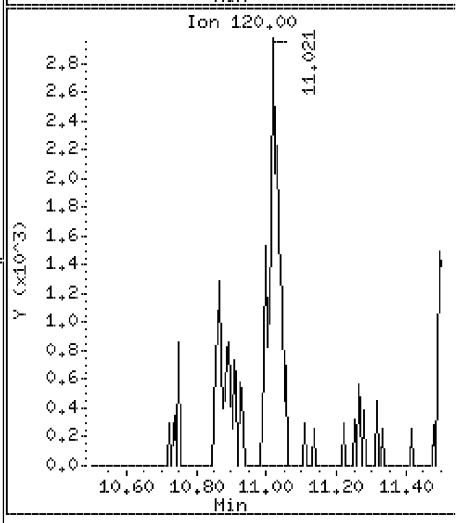
79 1,3,5-Trimethylbenzene

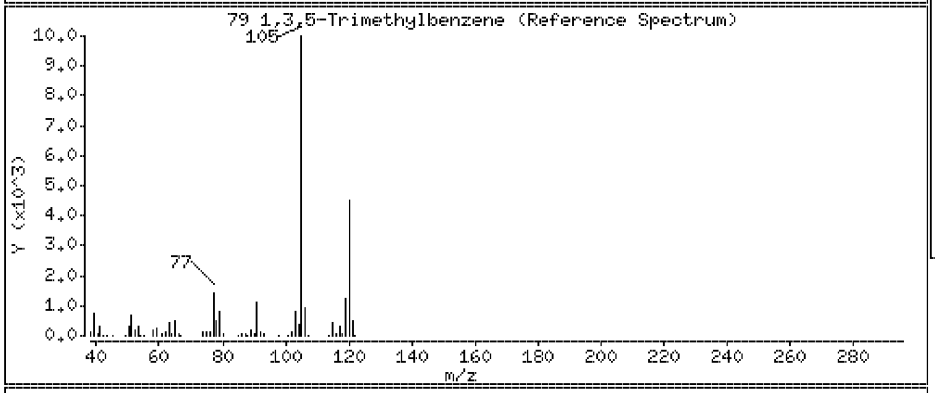
Concentration: 0.355 ppbv

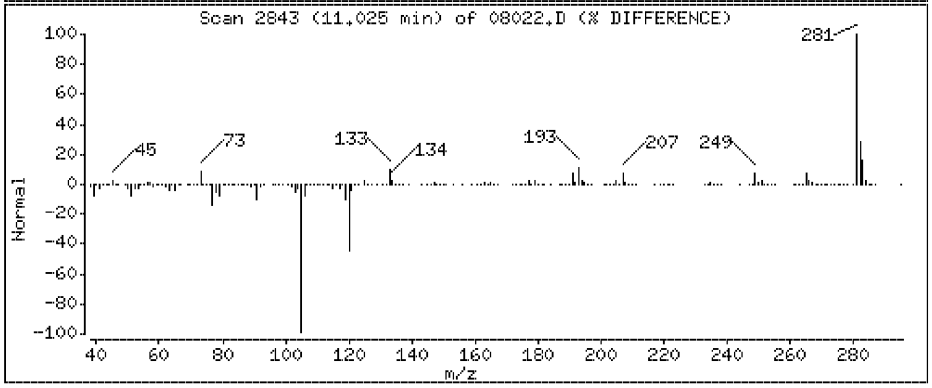












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

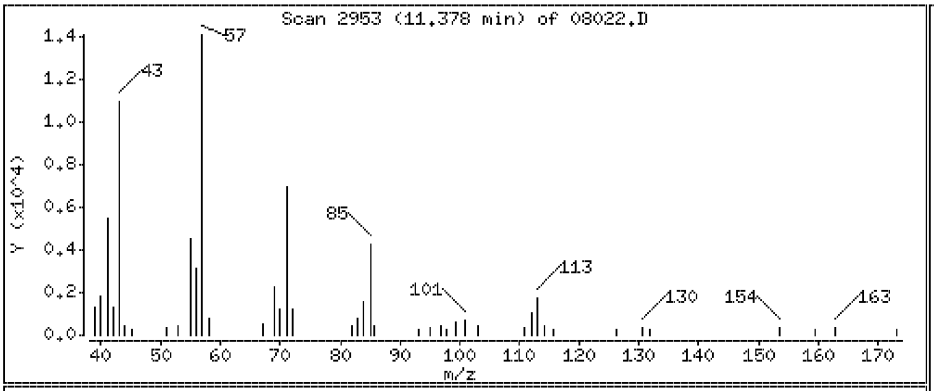
Operator: NCK

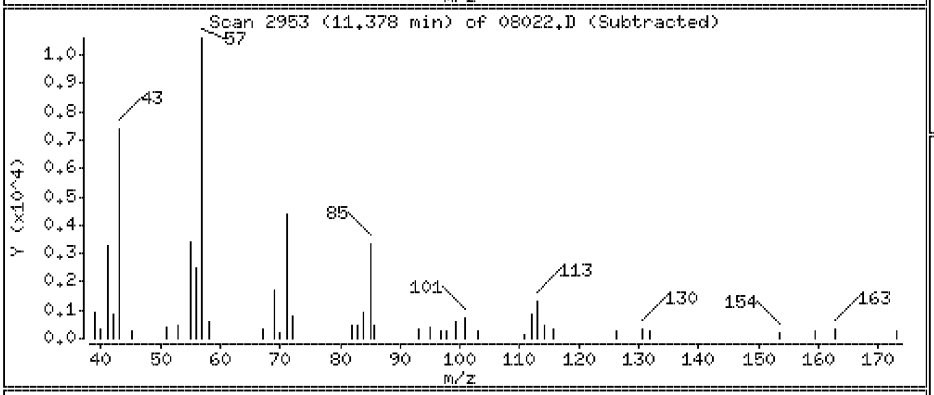
Column phase: J&W DB-5

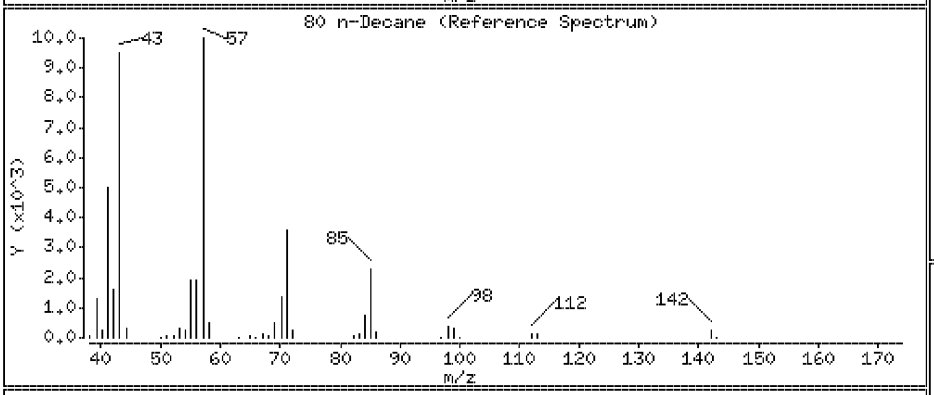
Column diameter: 0.32

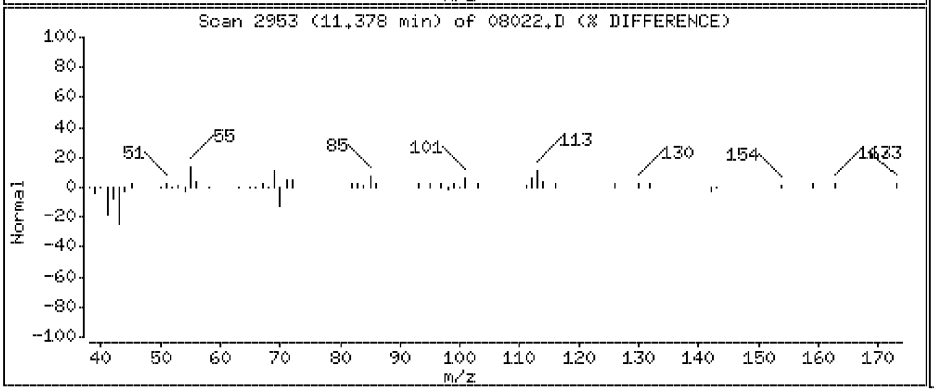
80 n-Decane

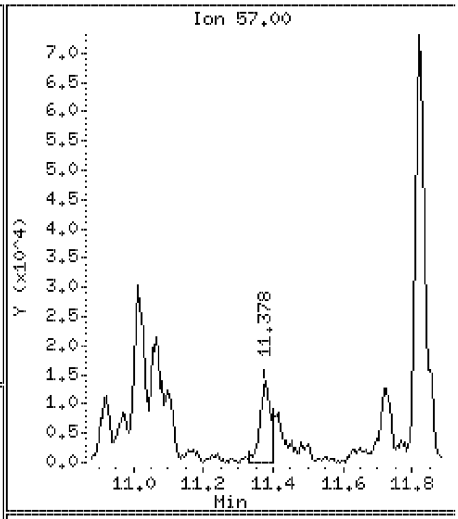
Concentration: 0.395 ppbv

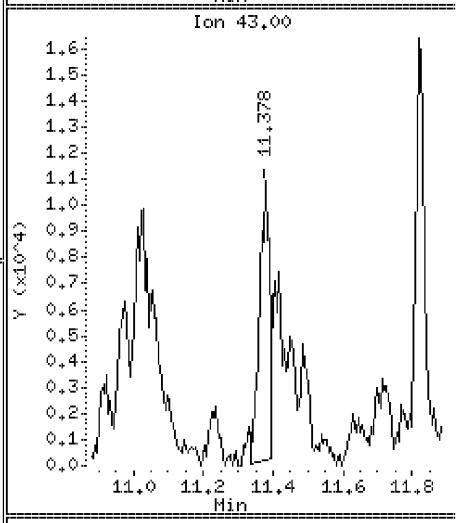


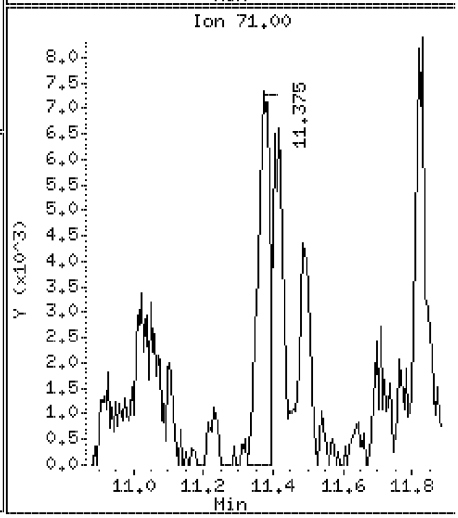












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

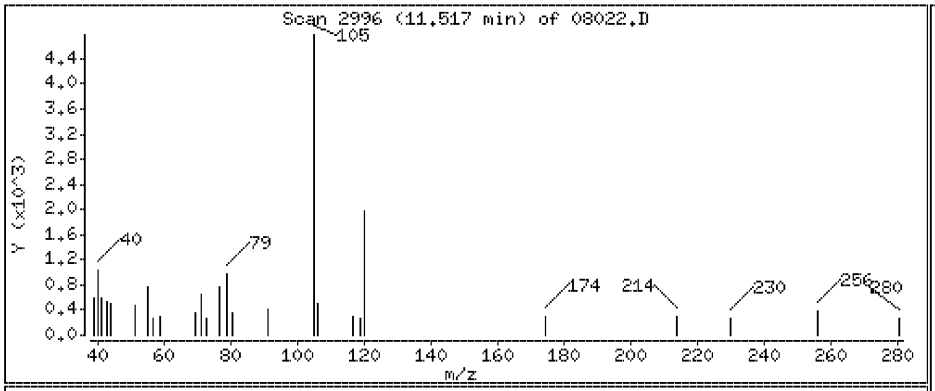
Operator: NCK

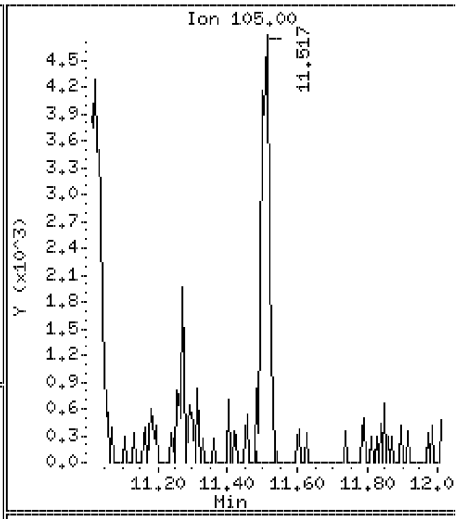
Column phase: J&W DB-5

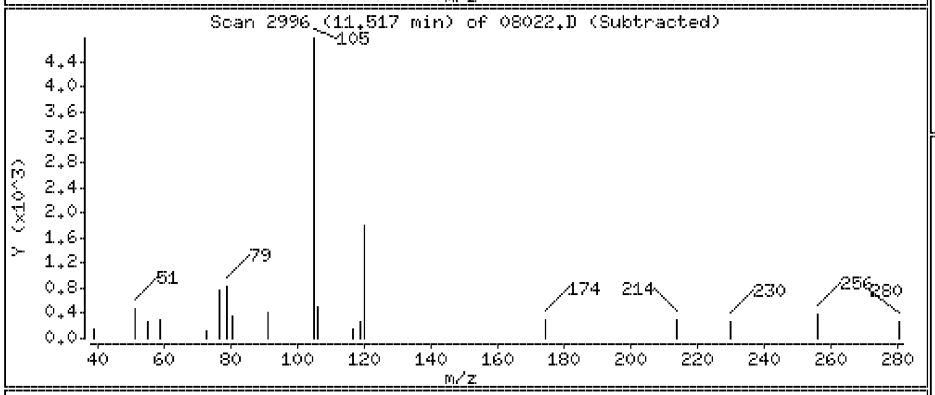
Column diameter: 0.32

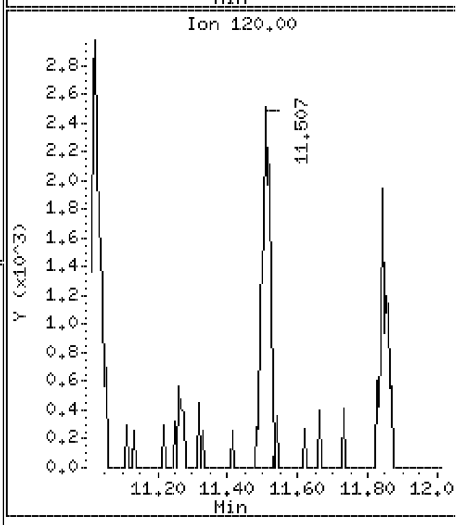
82 1,2,4-Trimethylbenzene

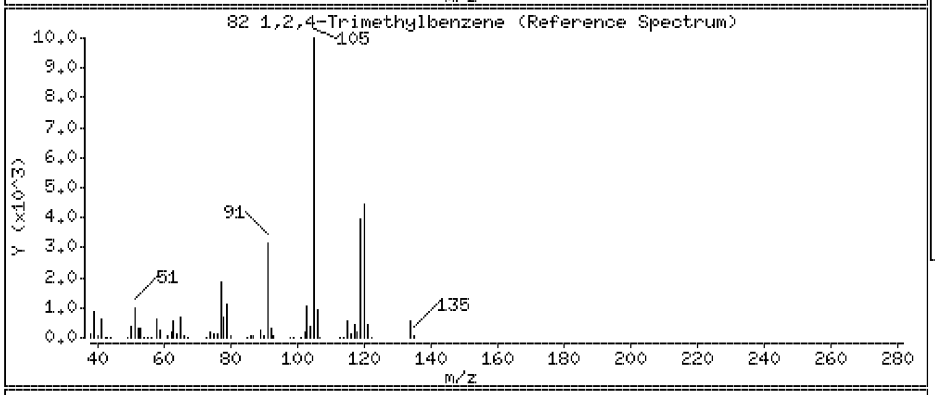
Concentration: 0.312 ppbv

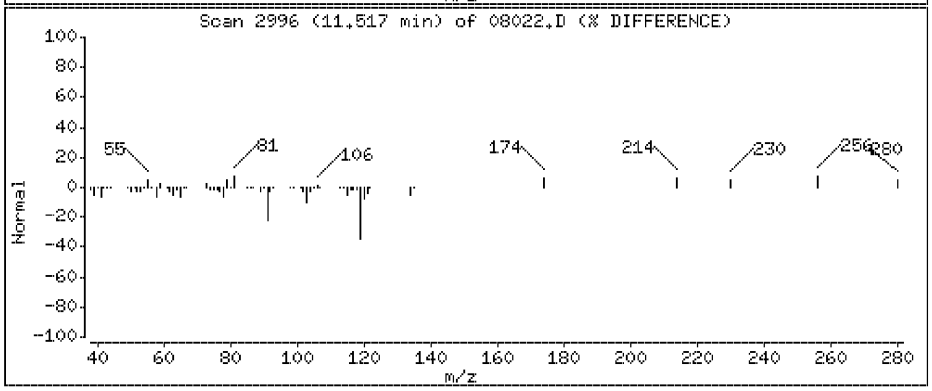












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

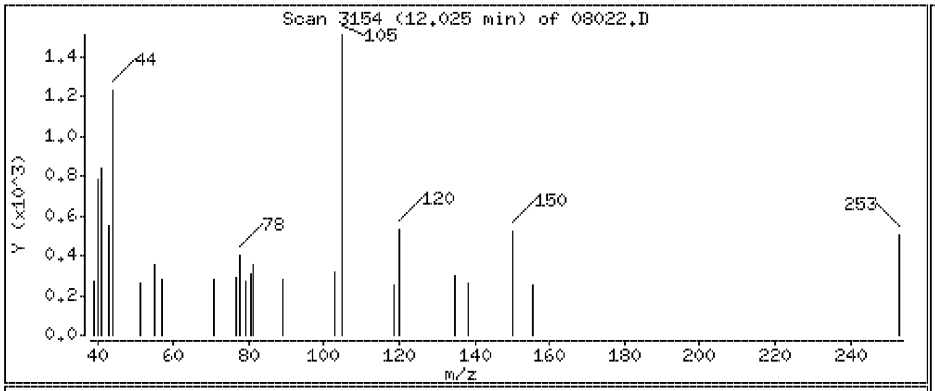
Operator: NCK

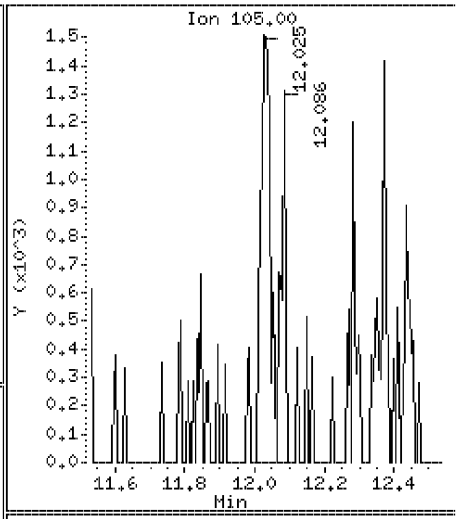
Column phase: J&W DB-5

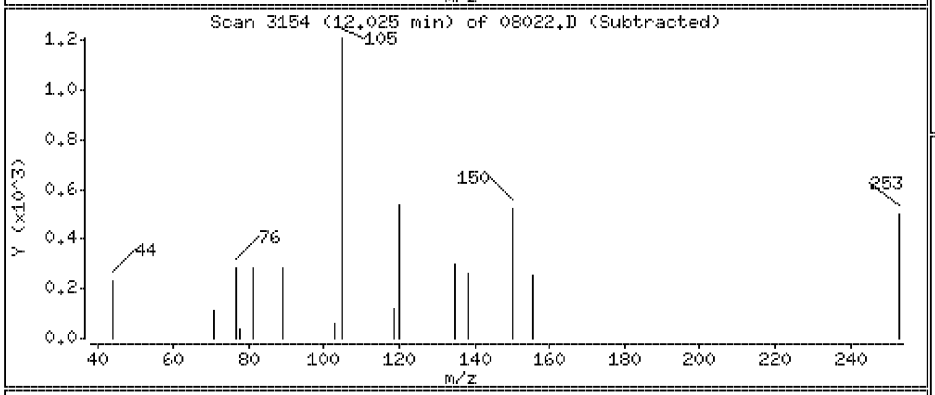
Column diameter: 0.32

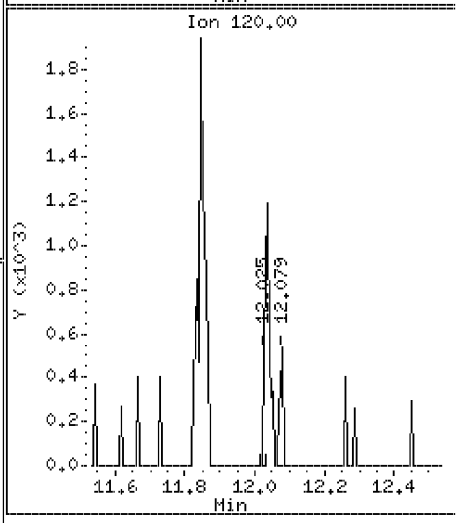
89 1,2,3-Trimethylbenzene

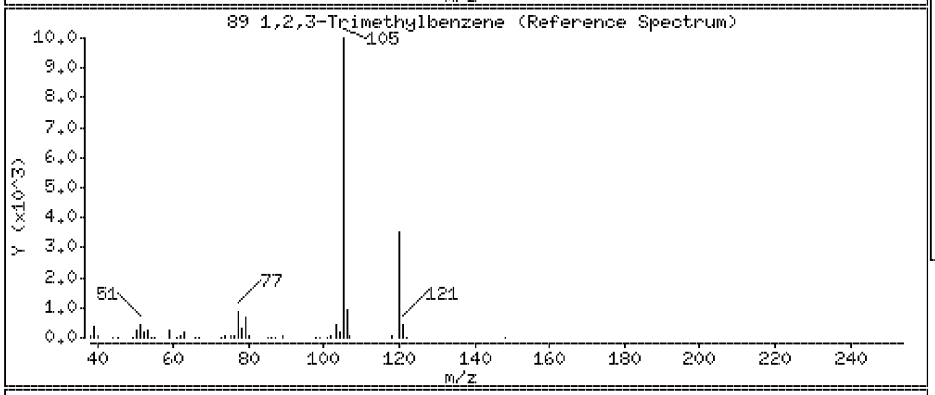
Concentration: 0.306 ppbv

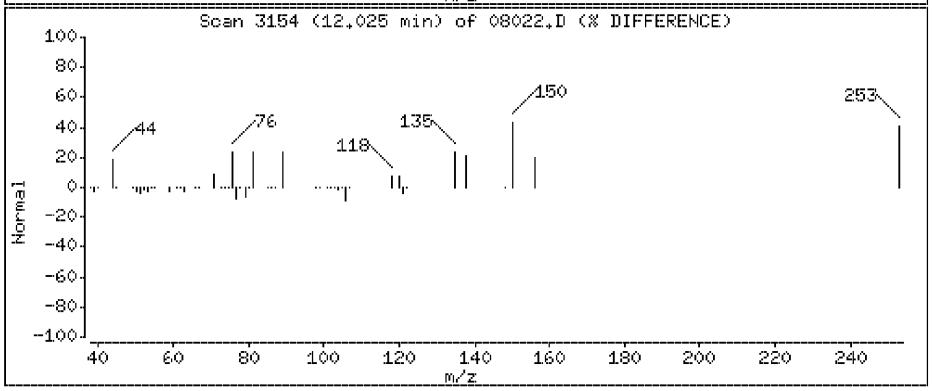












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08022.D

Date : 21-MAR-2017 19:25

Client ID:

Instrument: 10airB.i

Sample Info:

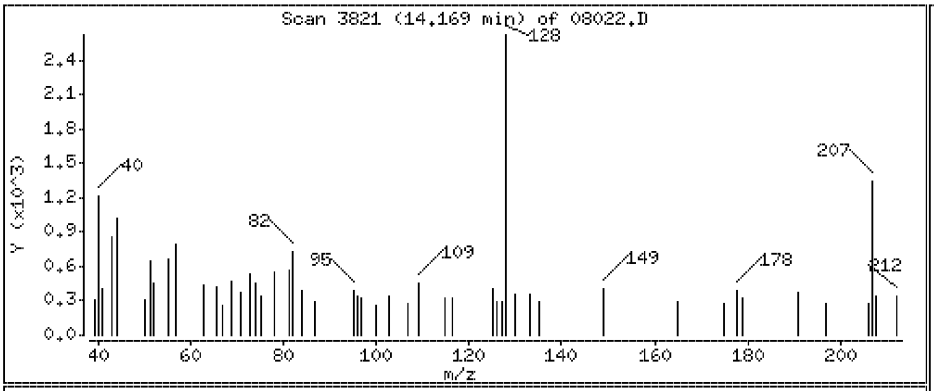
Operator: NCK

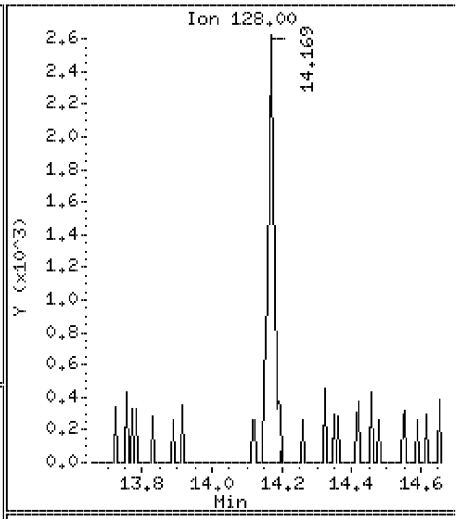
Column phase: J&W DB-5

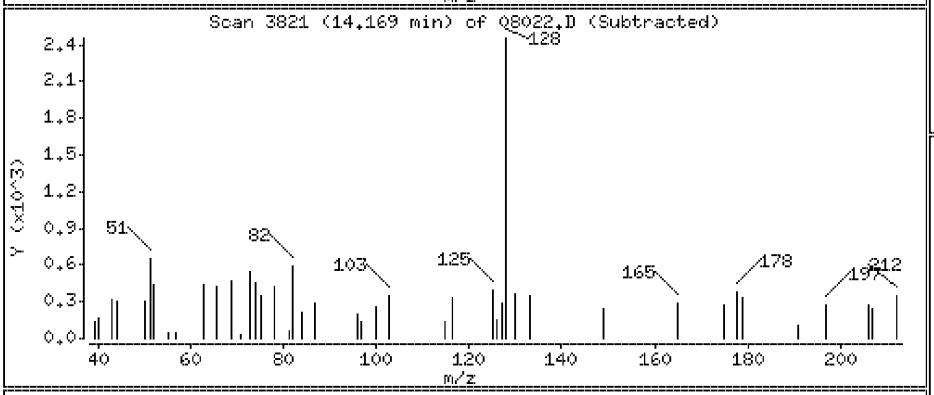
Column diameter: 0.32

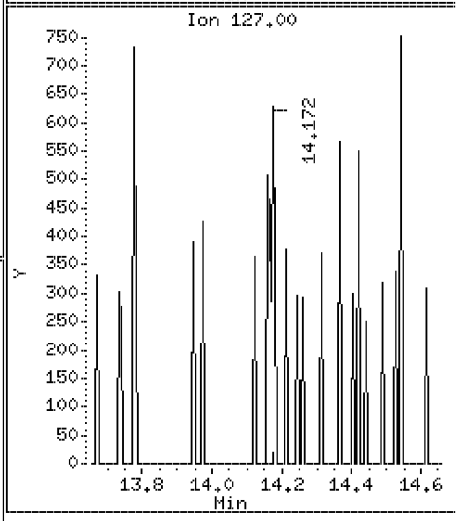
94 Naphthalene

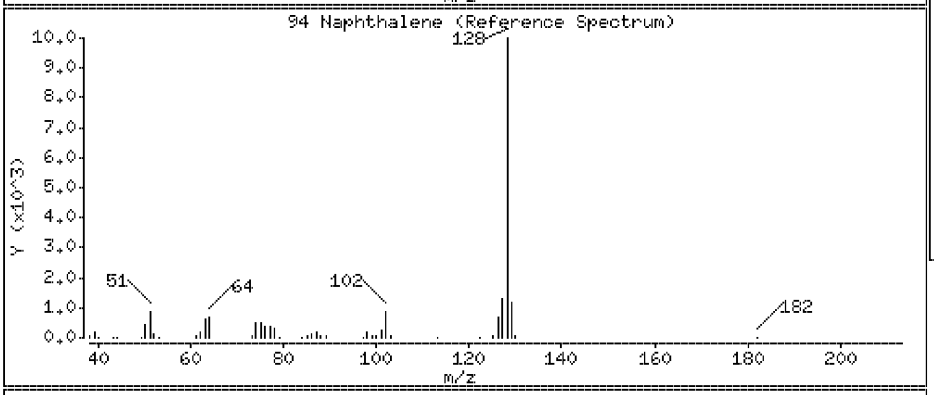
Concentration: 0.859 ppbv

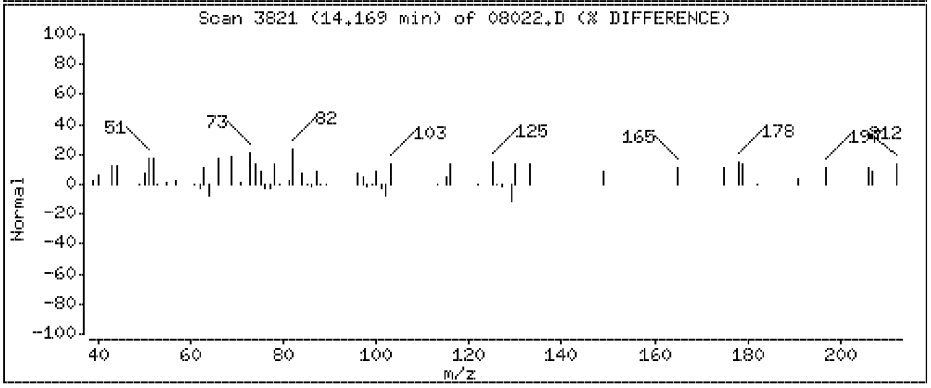






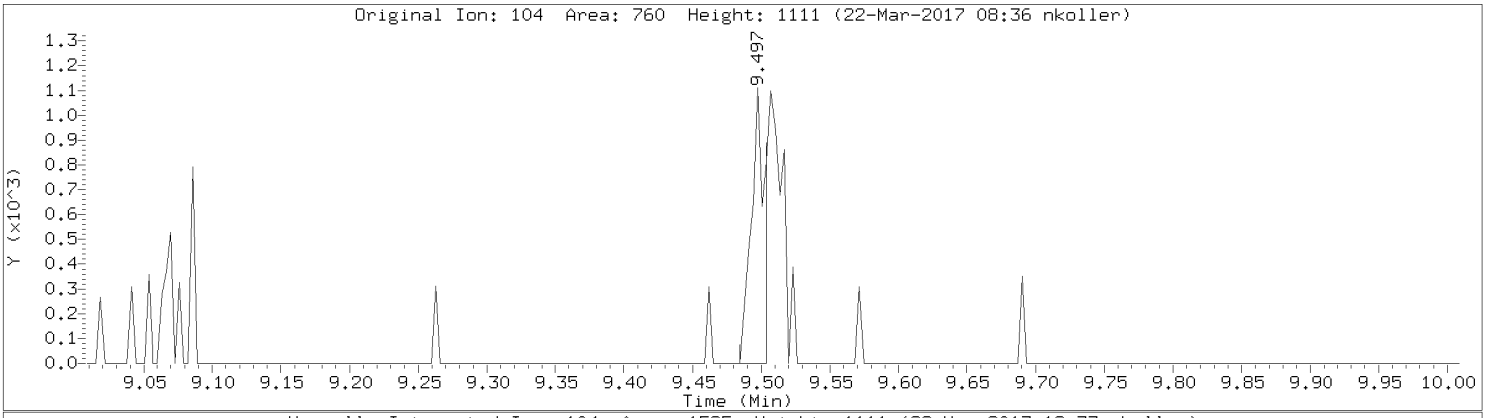


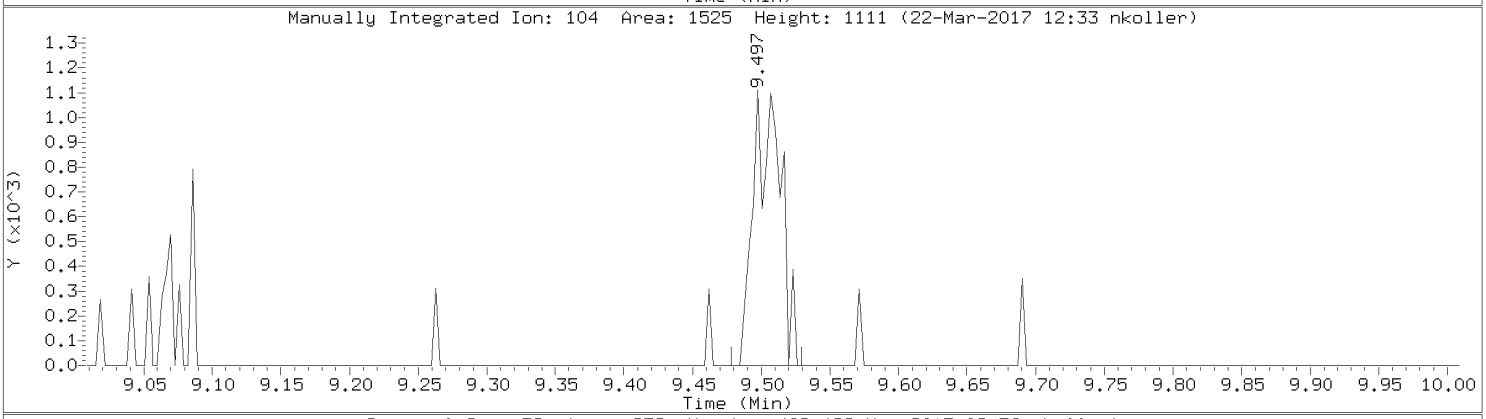


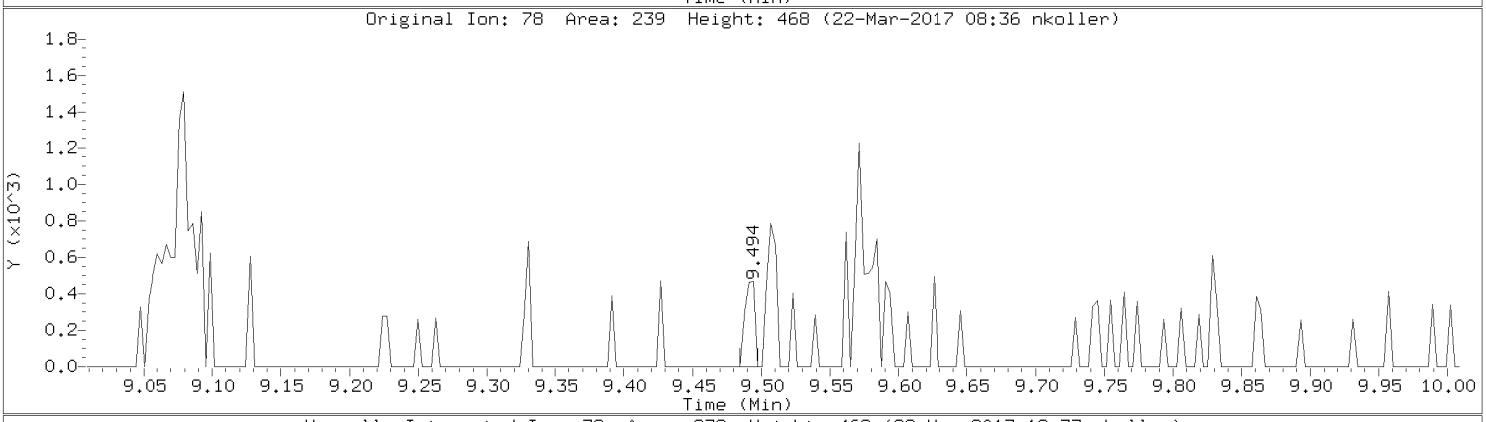


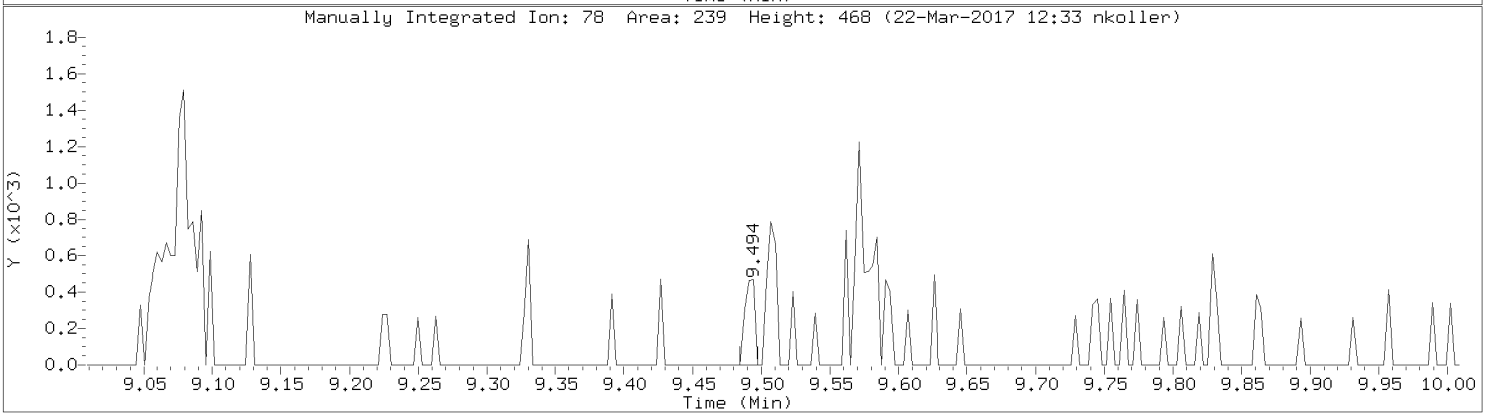
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08022.D
Injection Date: 21-MAR-2017 19:25
Instrument: 10airB.i
Lab Sample ID: 10381035012

Compound: Styrene
CAS Number: 100-42-5

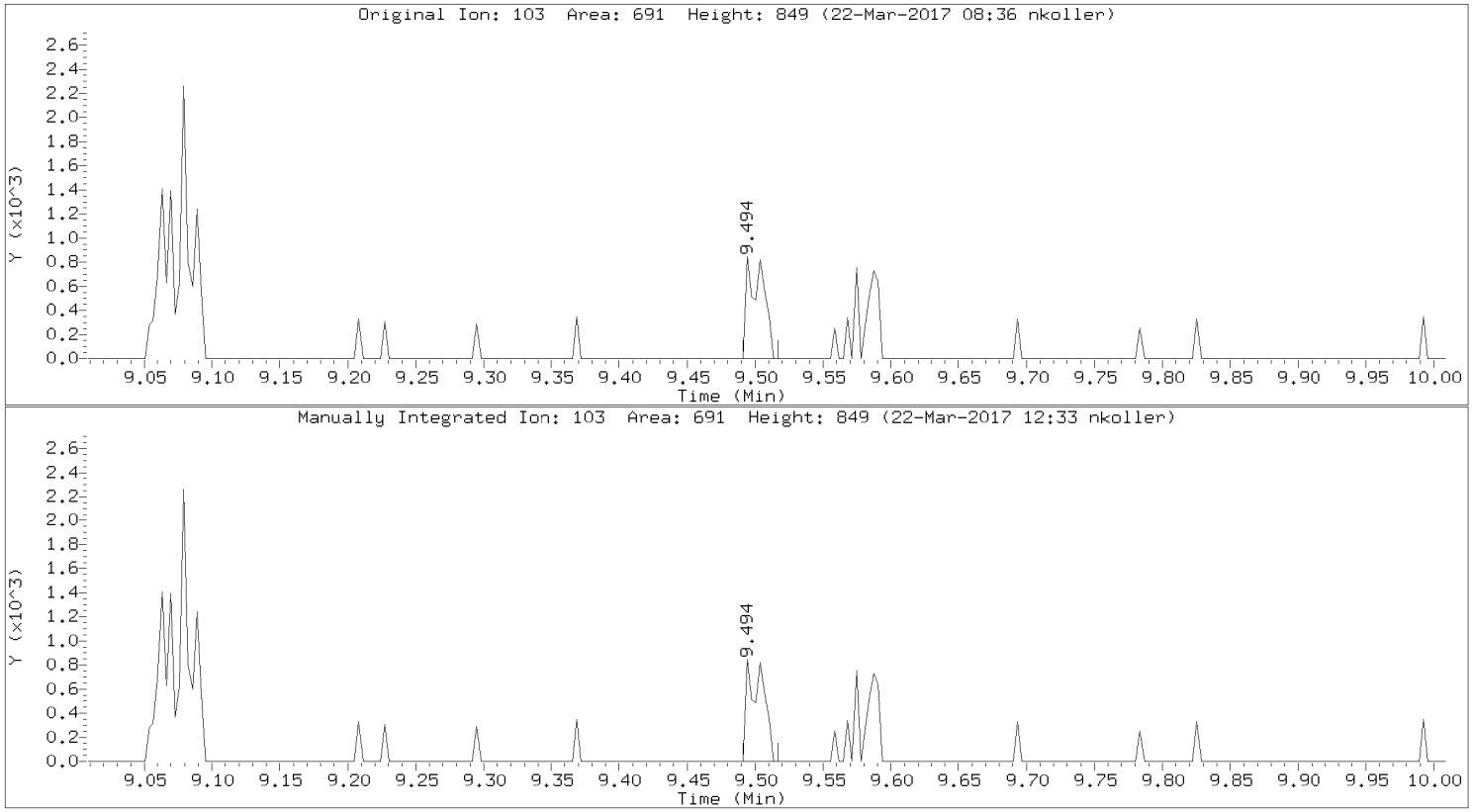






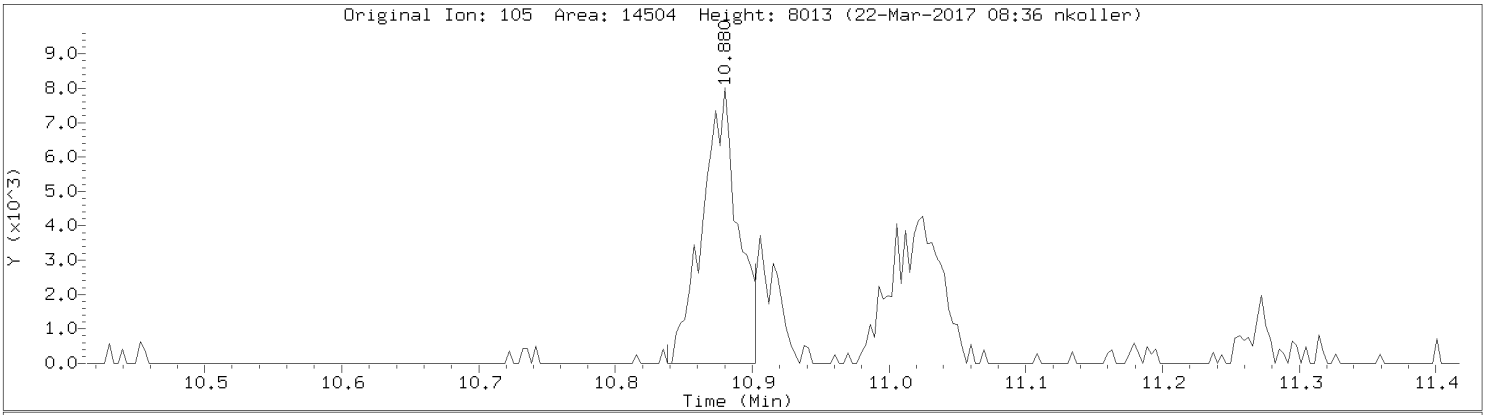


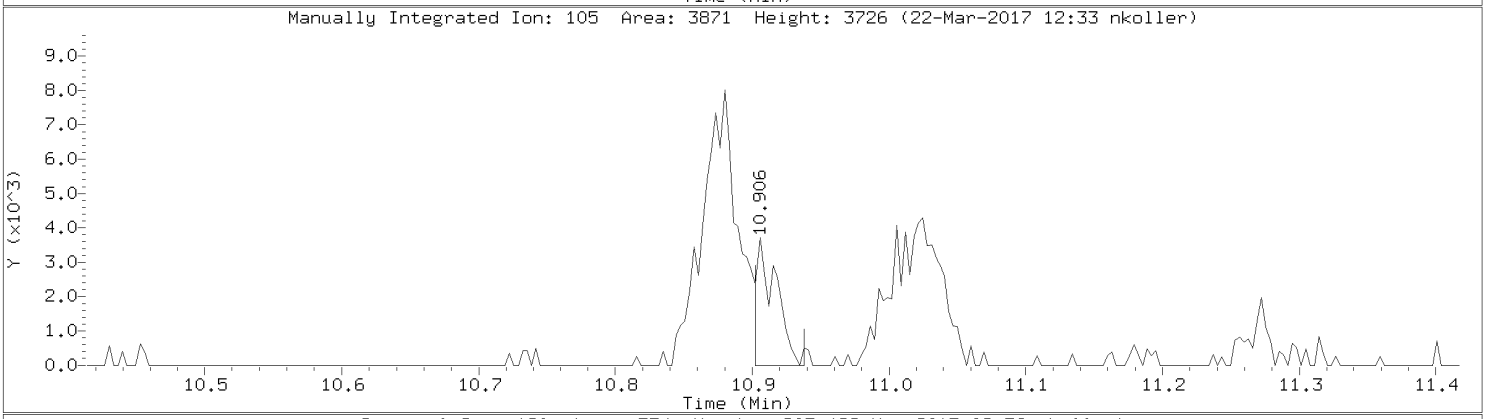
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08022.D
Injection Date: 21-MAR-2017 19:25
Instrument: 10airB.i
Lab Sample ID: 10381035012

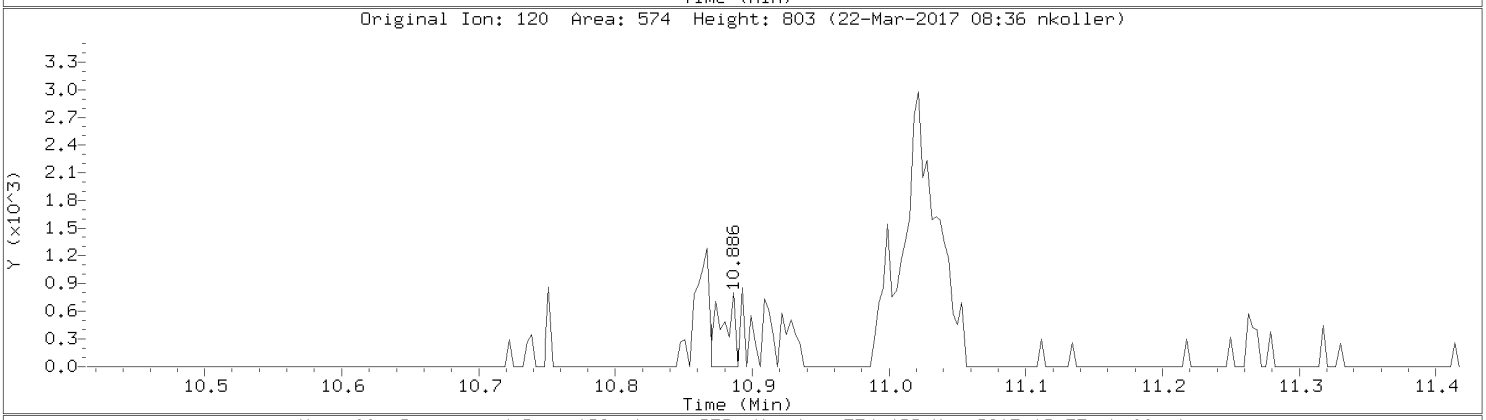


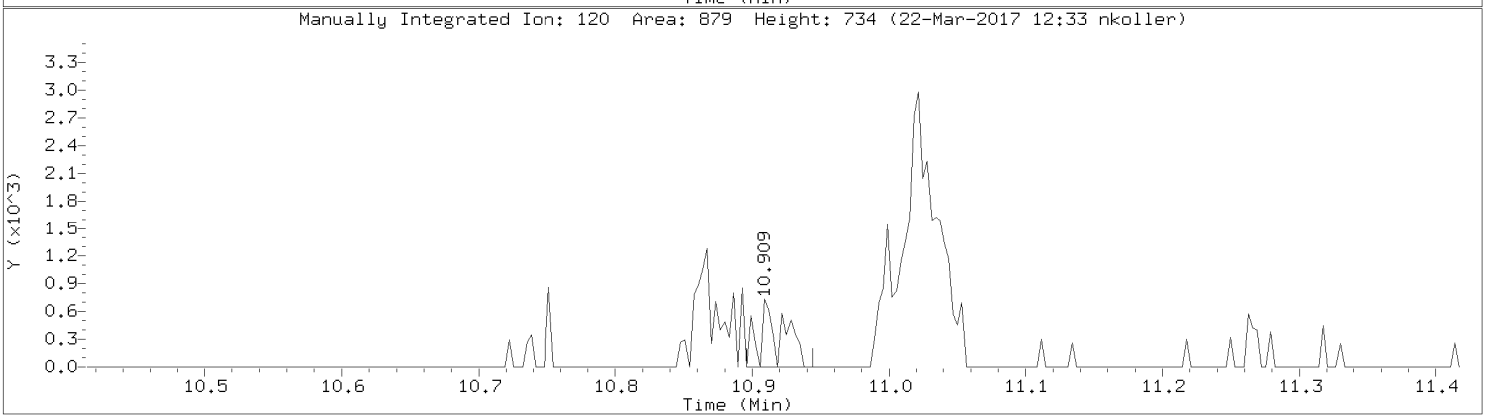
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08022.D
Injection Date: 21-MAR-2017 19:25
Instrument: 10airB.i
Lab Sample ID: 10381035012

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

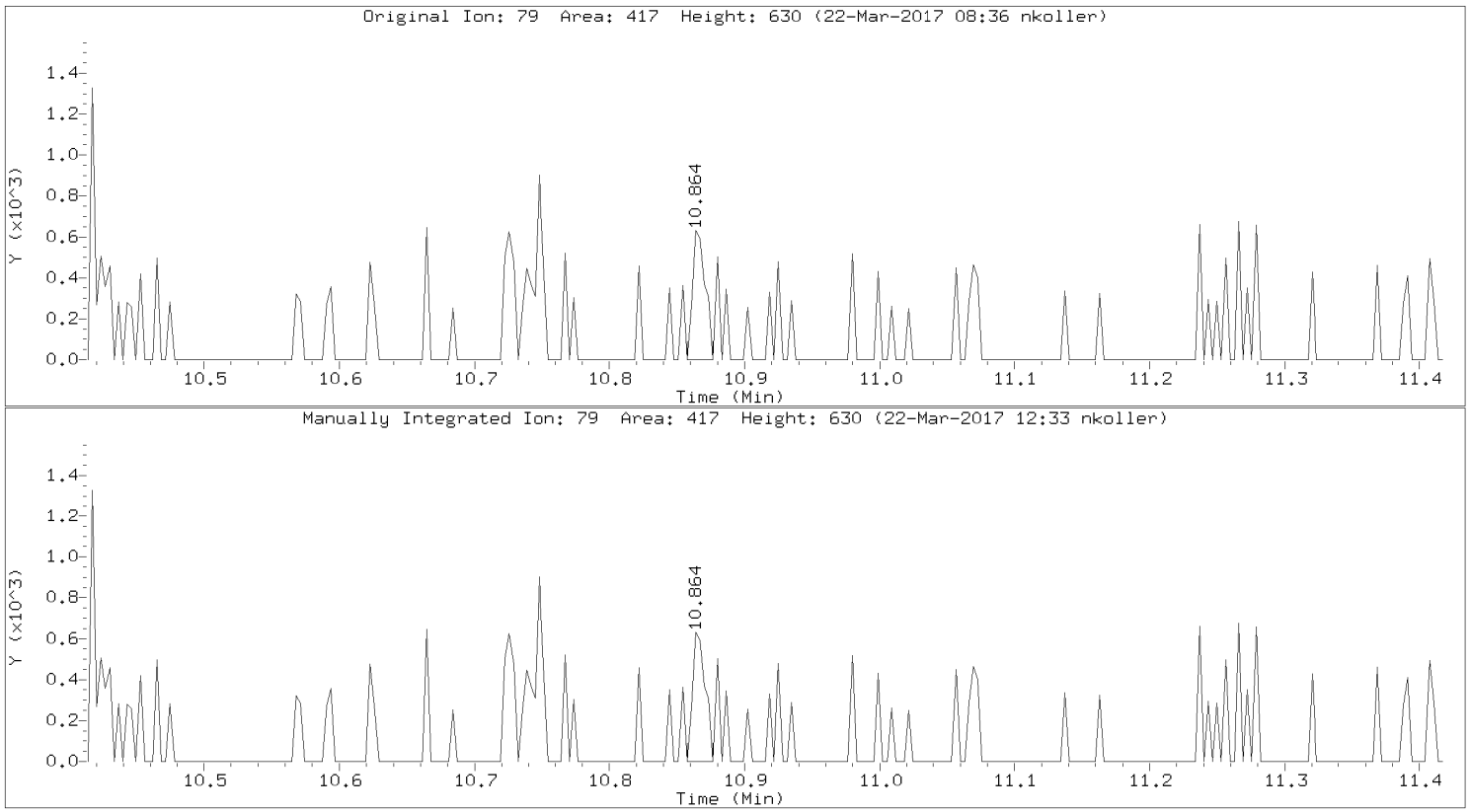








Data File: \\192.168.10.12\chem\10airB.i\032117.b/08022.D
Injection Date: 21-MAR-2017 19:25
Instrument: 10airB.i
Lab Sample ID: 10381035012



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_5_20170302 **Lab ID: 10381035013** Collected: 03/02/17 13:00 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.3**	ug/m3	4.9	1.7	2.01		03/21/17 19:57	67-64-1	
Allyl chloride	**<0.46**	ug/m3	3.2	0.46	2.01		03/21/17 19:57	107-05-1	
Benzene	**<0.25**	ug/m3	0.65	0.25	2.01		03/21/17 19:57	71-43-2	
Bromodichloromethane	**<0.39**	ug/m3	2.7	0.39	2.01		03/21/17 19:57	75-27-4	
Bromoform	**<1.8**	ug/m3	10.6	1.8	2.01		03/21/17 19:57	75-25-2	
Bromomethane	**<0.62**	ug/m3	1.6	0.62	2.01		03/21/17 19:57	74-83-9	
1,3-Butadiene	**<0.35**	ug/m3	0.90	0.35	2.01		03/21/17 19:57	106-99-0	
2-Butanone (MEK)	**<0.46**	ug/m3	6.0	0.46	2.01		03/21/17 19:57	78-93-3	
Carbon disulfide	**12.6**	ug/m3	1.3	0.20	2.01		03/21/17 19:57	75-15-0	
Carbon tetrachloride	**<0.39**	ug/m3	1.3	0.39	2.01		03/21/17 19:57	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		03/21/17 19:57	108-90-7	
Chlorodifluoromethane	**<0.55**	ug/m3	1.4	0.55	2.01		03/21/17 19:57	75-45-6	
Chloroethane	**<0.39**	ug/m3	1.1	0.39	2.01		03/21/17 19:57	75-00-3	
Chloroform	**1.2**	ug/m3	1.0	0.38	2.01		03/21/17 19:57	67-66-3	
Chloromethane	**<0.22**	ug/m3	0.84	0.22	2.01		03/21/17 19:57	74-87-3	
Chloropentafluoroethane	**<6.5**	ug/m3	6.5	6.5	2.01		03/21/17 19:57	76-15-3	
Cyclohexane	**<0.64**	ug/m3	1.4	0.64	2.01		03/21/17 19:57	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.9**	ug/m3	9.9	9.9	2.01		03/21/17 19:57	96-12-8	
Dibromochloromethane	**<1.7**	ug/m3	3.5	1.7	2.01		03/21/17 19:57	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.1	1.6	2.01		03/21/17 19:57	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/21/17 19:57	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.5	1.1	2.01		03/21/17 19:57	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/21/17 19:57	106-46-7	
Dichlorodifluoromethane	**<0.96**	ug/m3	5.1	0.96	2.01		03/21/17 19:57	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.6	0.32	2.01		03/21/17 19:57	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/m3	0.82	0.41	2.01		03/21/17 19:57	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.6	0.48	2.01		03/21/17 19:57	75-35-4	
cis-1,2-Dichloroethene	**<0.49**	ug/m3	1.6	0.49	2.01		03/21/17 19:57	156-59-2	
trans-1,2-Dichloroethene	**<0.77**	ug/m3	1.6	0.77	2.01		03/21/17 19:57	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/m3	1.9	0.54	2.01		03/21/17 19:57	78-87-5	
cis-1,3-Dichloropropene	**<0.74**	ug/m3	1.8	0.74	2.01		03/21/17 19:57	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/m3	1.8	0.52	2.01		03/21/17 19:57	10061-02-6	
Dichlorotetrafluoroethane	**<0.62**	ug/m3	2.9	0.62	2.01		03/21/17 19:57	76-14-2	
Freon 123	**<6.4**	ug/m3	6.4	6.4	2.01		03/21/17 19:57	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.71**	ug/m3	7.4	0.71	2.01		03/21/17 19:57	123-91-1	
Ethylbenzene	**<0.85**	ug/m3	1.8	0.85	2.01		03/21/17 19:57	100-41-4	
4-Ethyltoluene	**<0.38**	ug/m3	2.0	0.38	2.01		03/21/17 19:57	622-96-8	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	4.4	1.3	2.01		03/21/17 19:57	87-68-3	
n-Hexane	**1.3J**	ug/m3	1.4	0.72	2.01		03/21/17 19:57	110-54-3	
2-Hexanone	**<0.82**	ug/m3	8.4	0.82	2.01		03/21/17 19:57	591-78-6	
Isopropylbenzene (Cumene)	**<0.28**	ug/m3	5.0	0.28	2.01		03/21/17 19:57	98-82-8	
Methyl acetate	**<3.1**	ug/m3	3.1	3.1	2.01		03/21/17 19:57	79-20-9	
Methylcyclohexane	**<0.49**	ug/m3	1.6	0.49	2.01		03/21/17 19:57	108-87-2	
Methylene Chloride	**7.0J**	ug/m3	7.1	1.1	2.01		03/21/17 19:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.44**	ug/m3	8.4	0.44	2.01		03/21/17 19:57	108-10-1	
Methyl-tert-butyl ether	**<0.61**	ug/m3	7.4	0.61	2.01		03/21/17 19:57	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D
Report Date: 22-Mar-2017 14:27

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08023.D
Lab Smp Id: 10381035013
Inj Date : 21-MAR-2017 19:57
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 23
Dil Factor: 2.01000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.010	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.545	3.545	(0.633)	29463	1.21742	2.45	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.661	3.677	(0.654)	13690	0.10466	0.210	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.713	3.722	(0.663)	351747	3.36641	6.77(Q)	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D
Report Date: 22-Mar-2017 14:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.992	4.005	(0.713)	84958	0.98903	1.99	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	4.102	4.127	(0.732)	210514	1.97856	3.98	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.439	4.388	(0.793)	66324	0.42238	0.849(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.800)	2118579	9.56180	9.56	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.578	4.587	(0.817)	20596	0.18581	0.373(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.819	4.841	(0.860)	14073	0.11944	0.240	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	6464450	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5677004	9.53661	9.54	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.565	7.581	(0.876)	24756	0.16266	0.327(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.976	7.986	(0.923)	26113	0.27799	0.559	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	4141004	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.073	9.082	(1.050)	10901	0.21725	0.437(H)	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D
Report Date: 22-Mar-2017 14:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	11.002	10.998	(1.274)	2158	0.14945	0.300(H)	
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.507	11.510	(1.332)	5584	0.15589	0.313	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	1893762	9.47678	9.48	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.037	12.034	(1.393)	2012	0.15715	0.316	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	3020	0.44925	0.903	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D
Report Date: 22-Mar-2017 14:27

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08023.D
Lab Smp Id: 10381035013
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

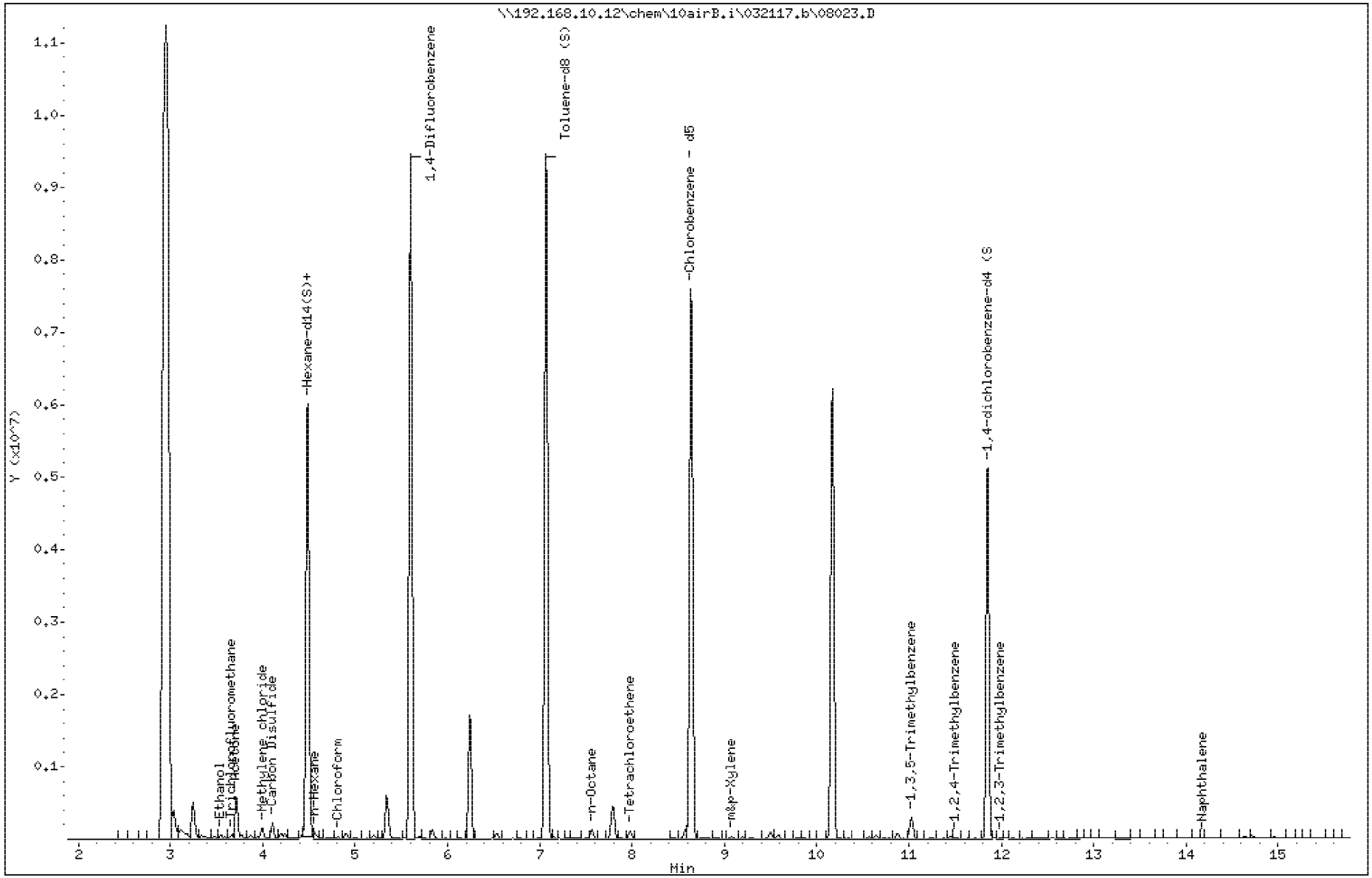
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6464450	-15.40
67 Chlorobenzene - d	5205948	3123569	7288327	4141004	-20.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D
Date : 21-MAR-2017 19:57
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

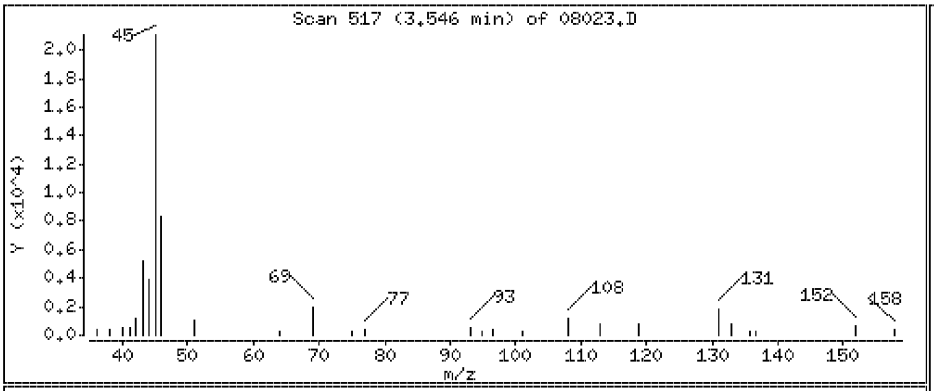
Operator: NCK

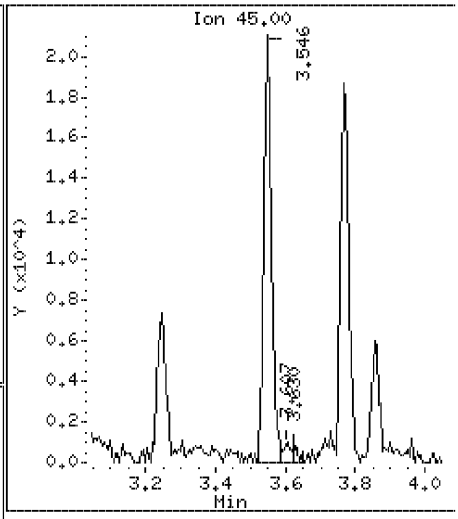
Column phase: J&W DB-5

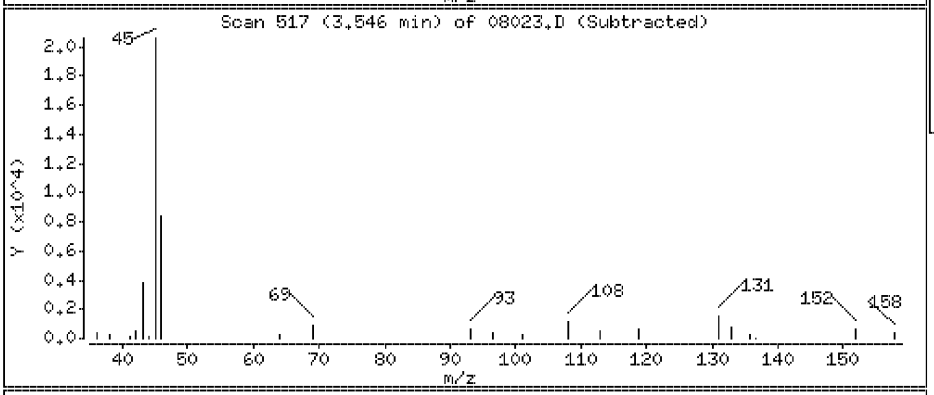
Column diameter: 0.32

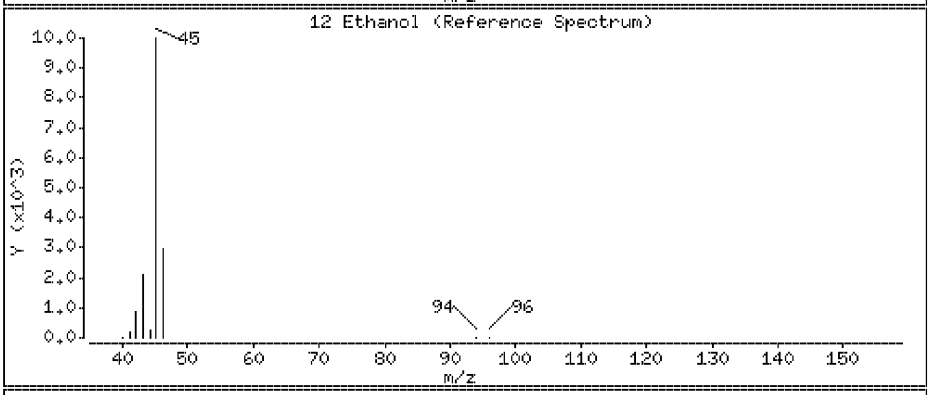
12 Ethanol

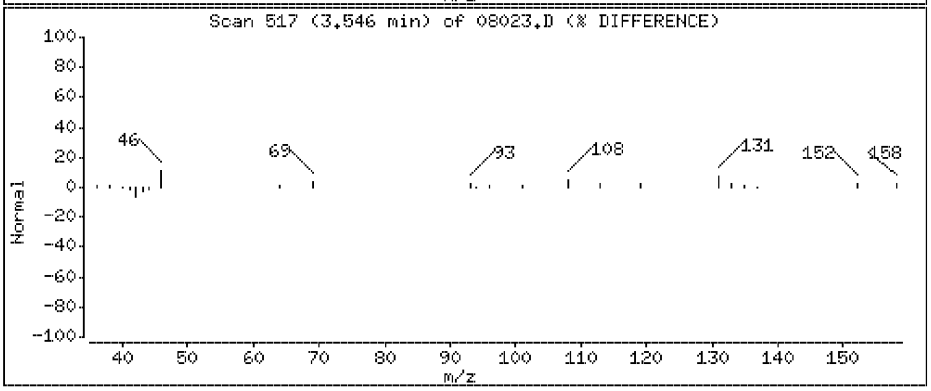
Concentration: 2.45 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

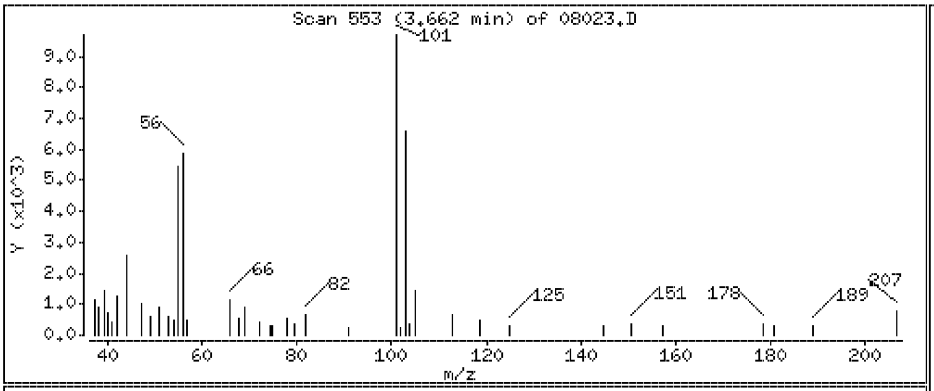
Operator: NCK

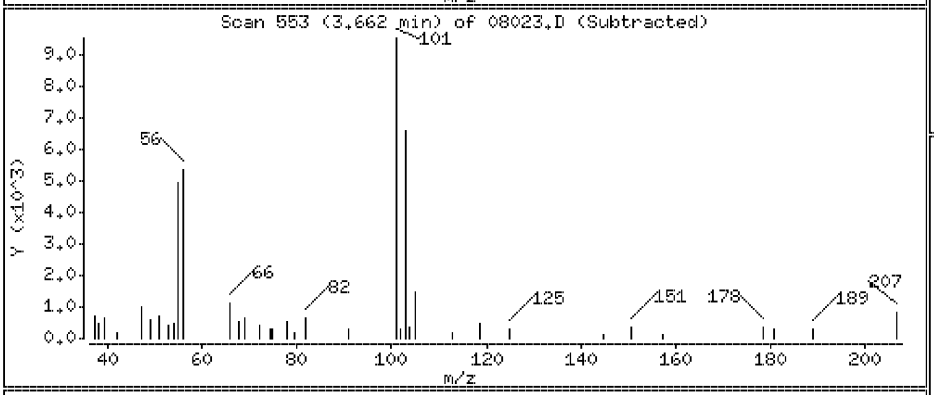
Column phase: J&W DB-5

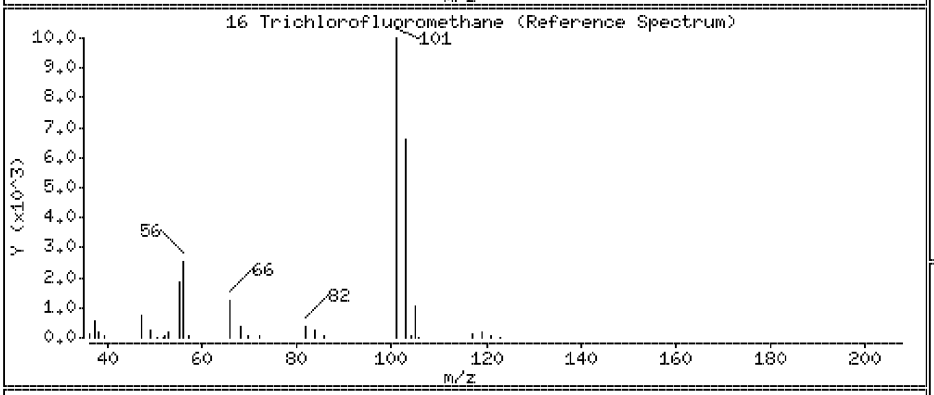
Column diameter: 0.32

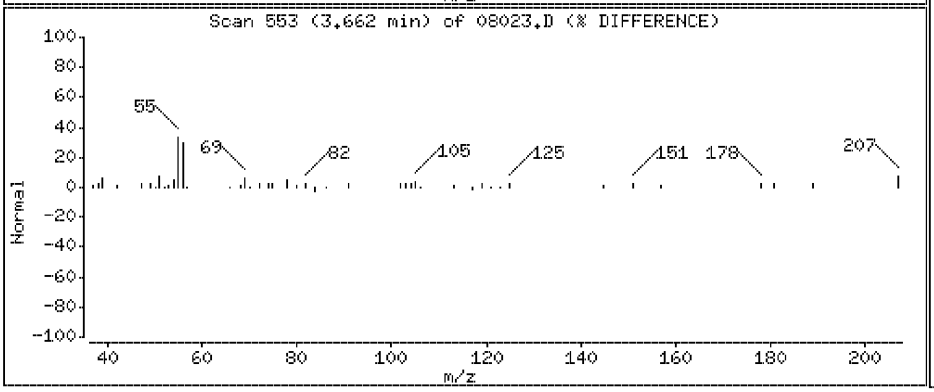
16 Trichlorofluoromethane

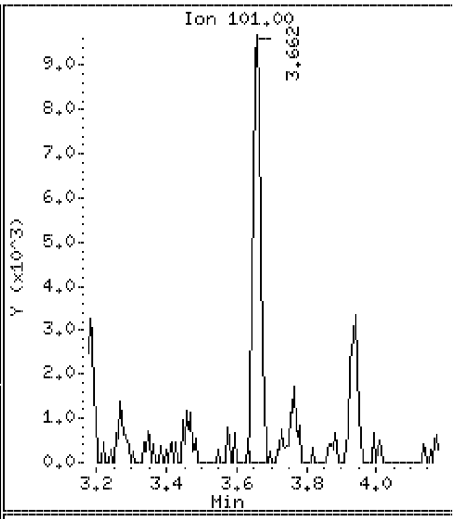
Concentration: 0.210 ppbv

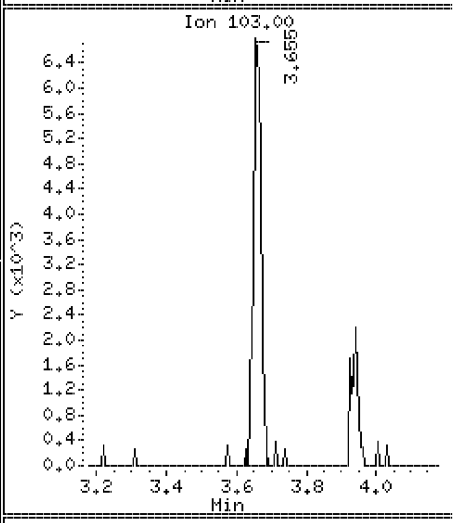


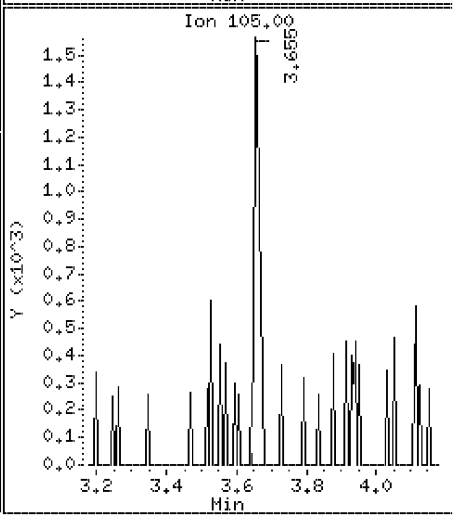












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

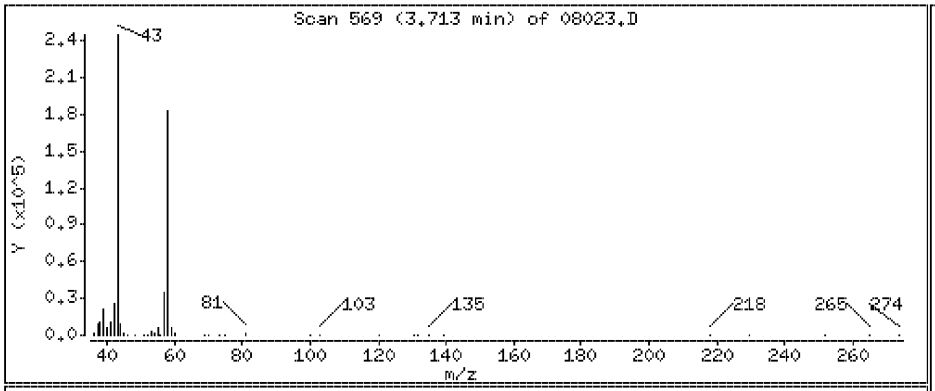
Operator: NCK

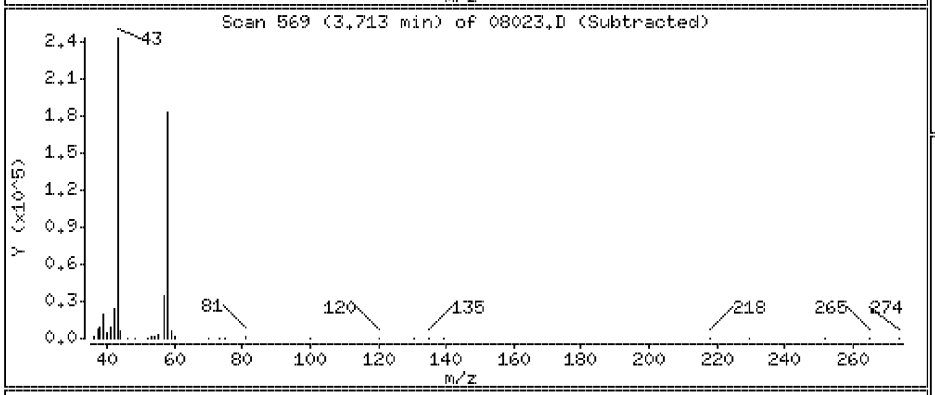
Column phase: J&W DB-5

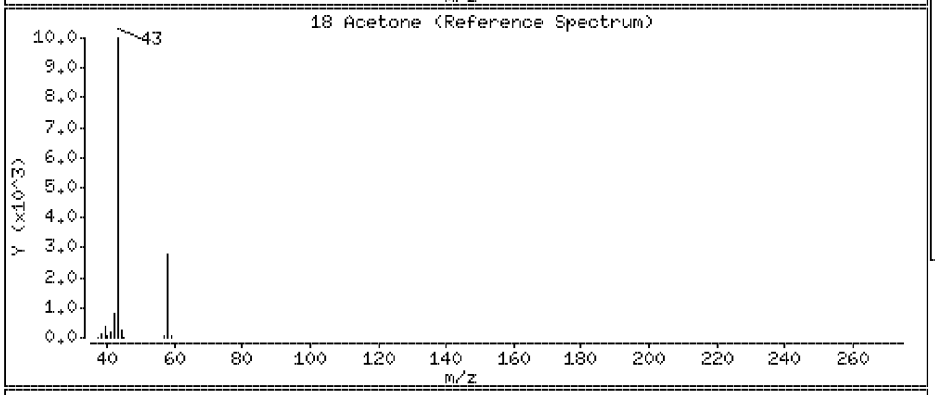
Column diameter: 0.32

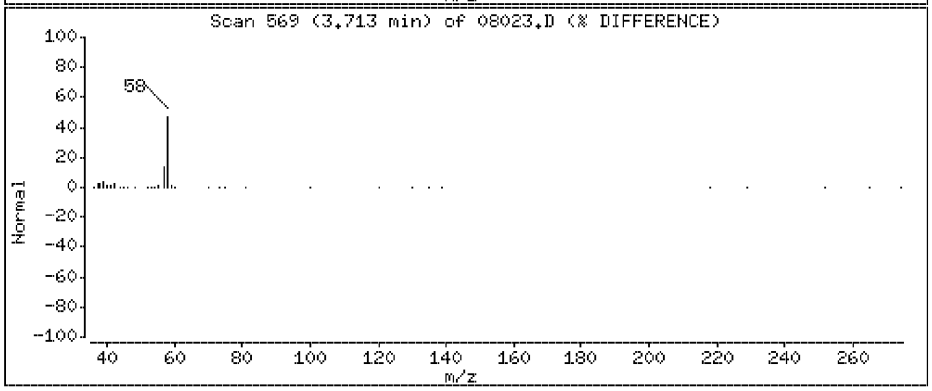
18 Acetone

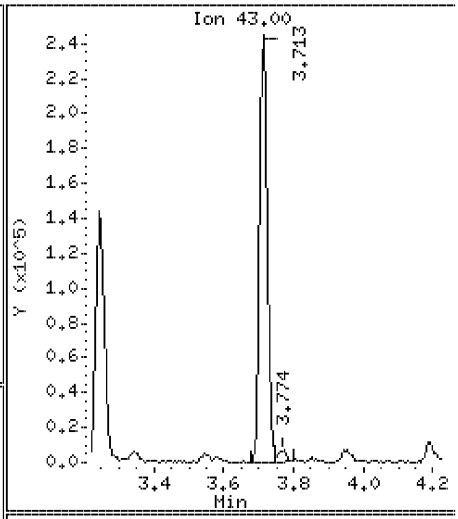
Concentration: 6.77 ppbv

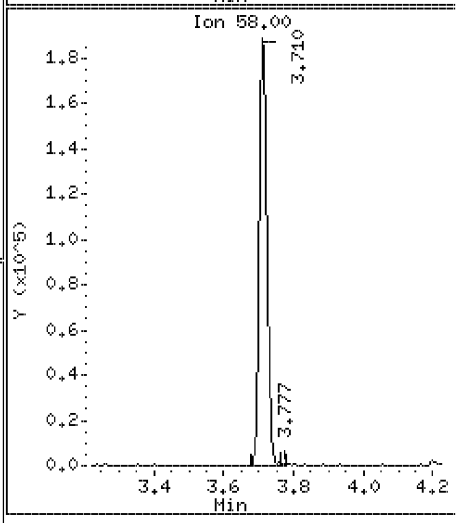












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

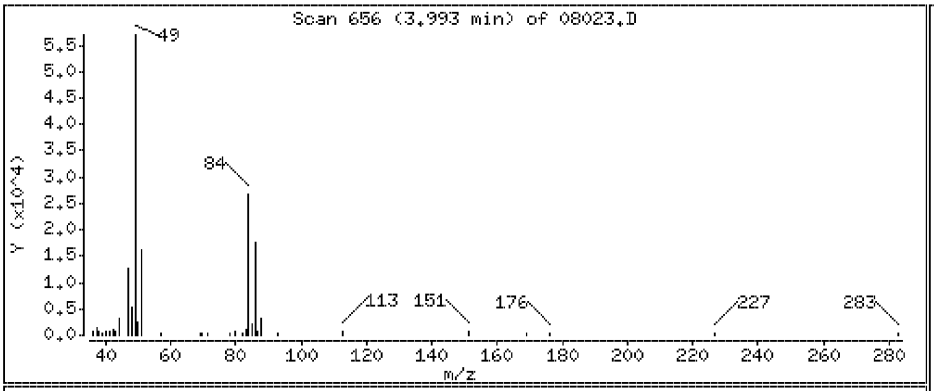
Operator: NCK

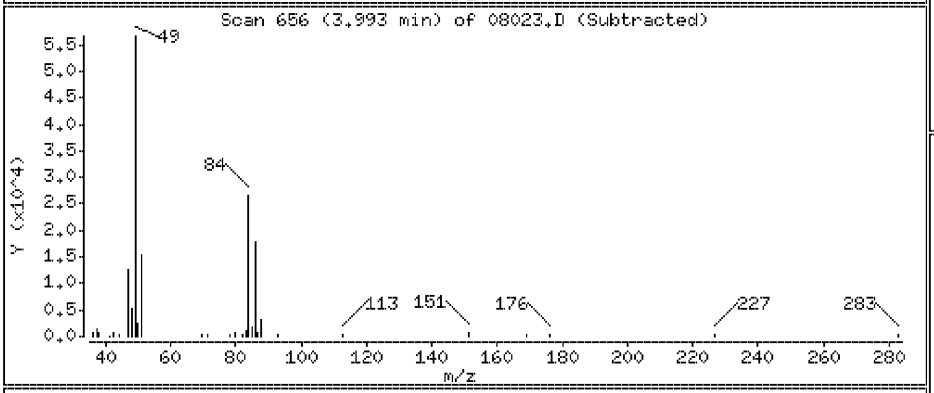
Column phase: J&W DB-5

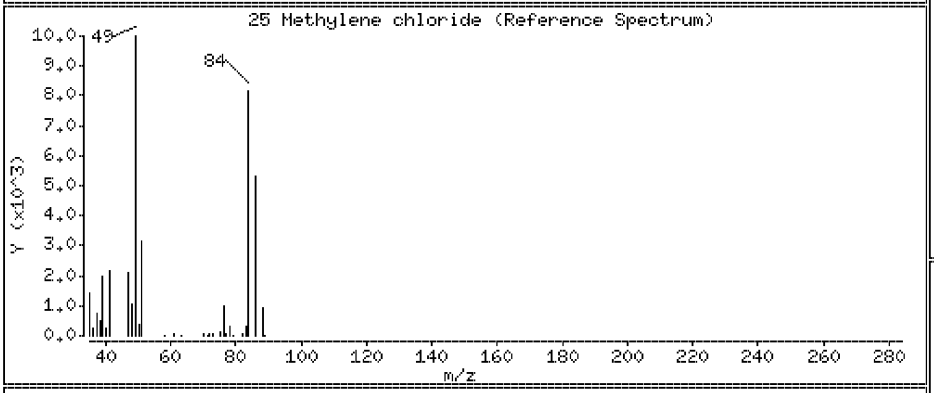
Column diameter: 0.32

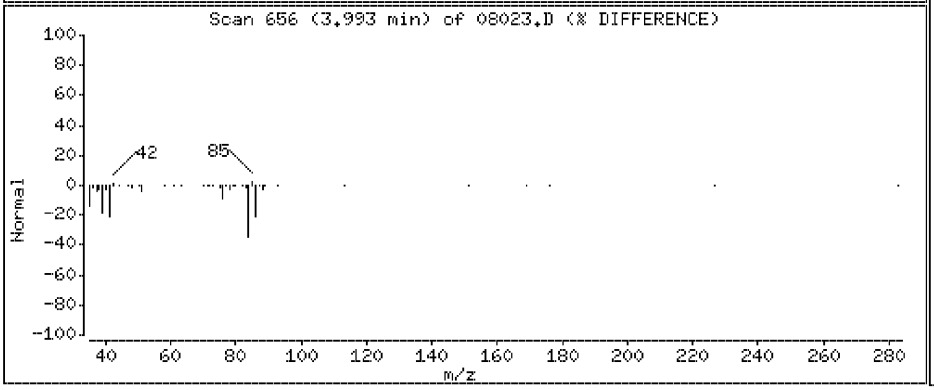
25 Methylene chloride

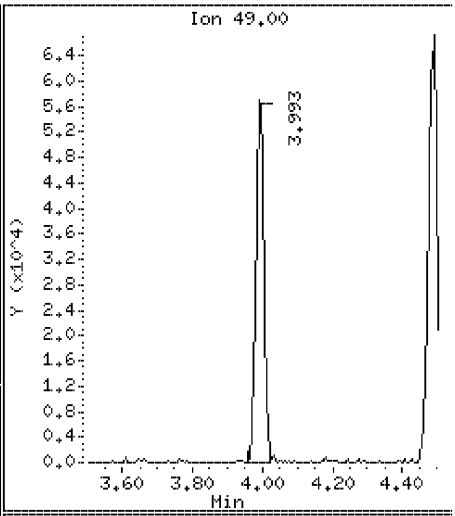
Concentration: 1.99 ppbv

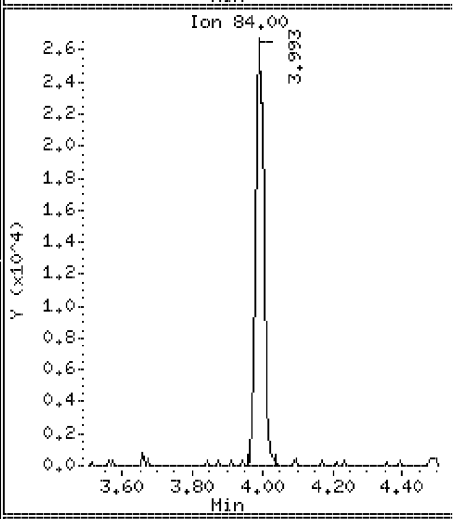


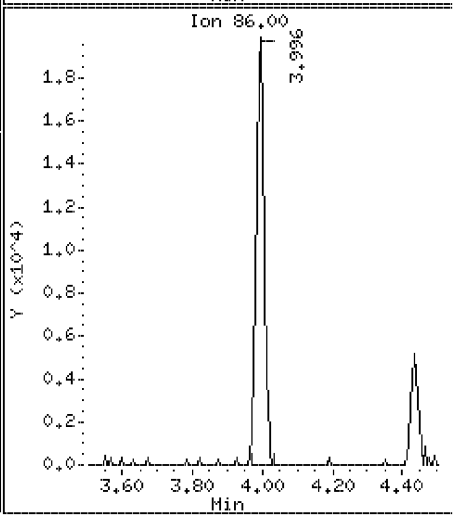












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

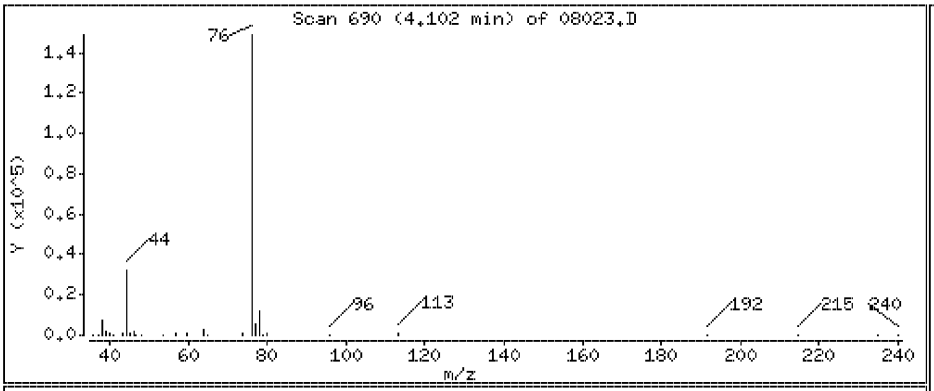
Operator: NCK

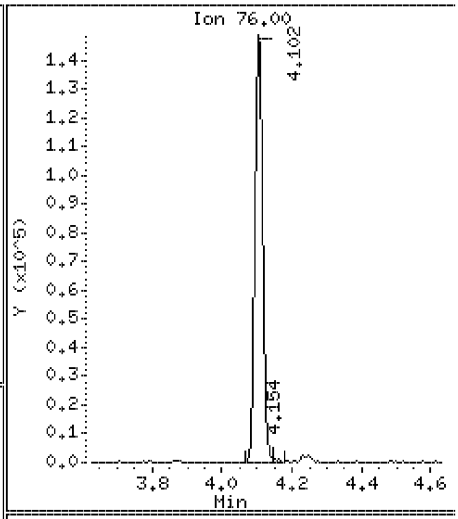
Column phase: J&W DB-5

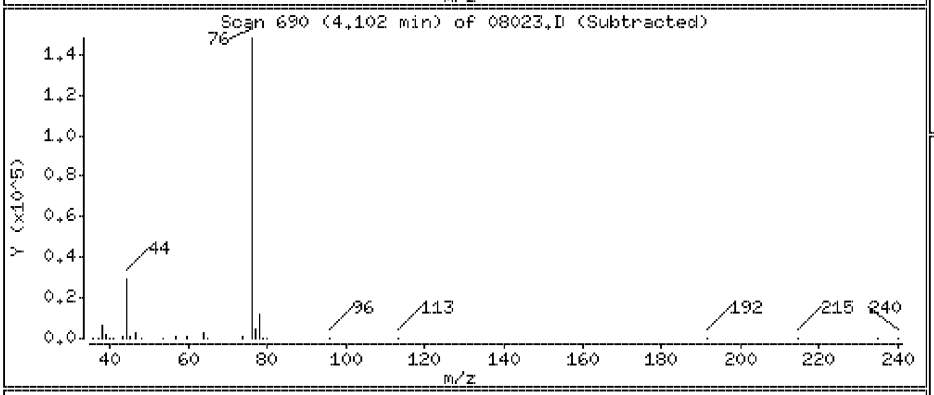
Column diameter: 0.32

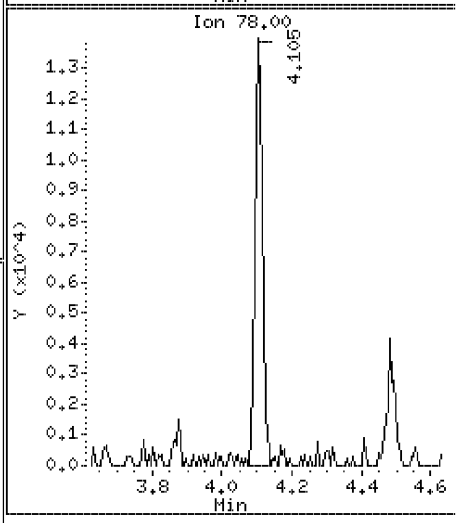
27 Carbon Disulfide

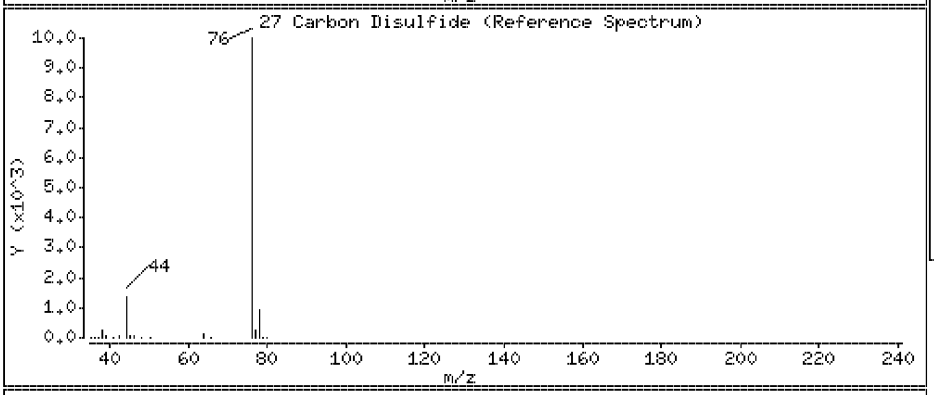
Concentration: 3.98 ppbv

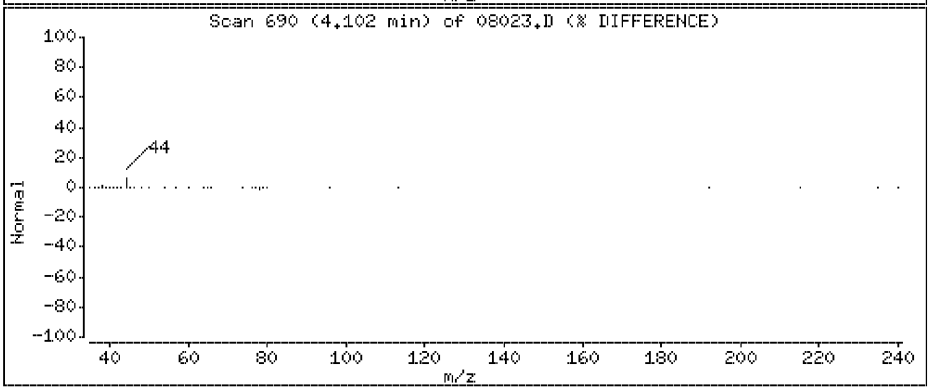












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

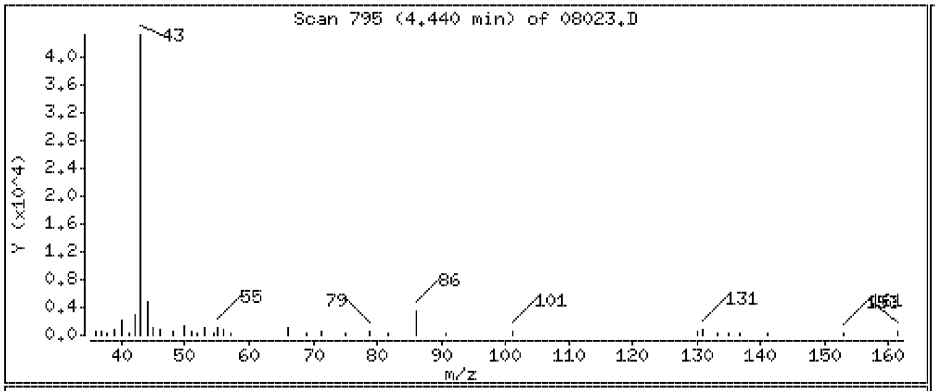
Operator: NCK

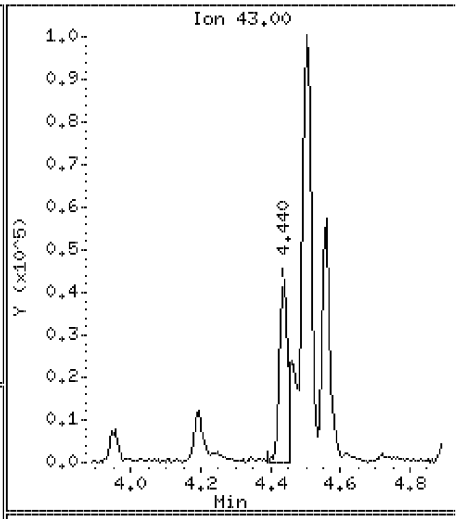
Column phase: J&W DB-5

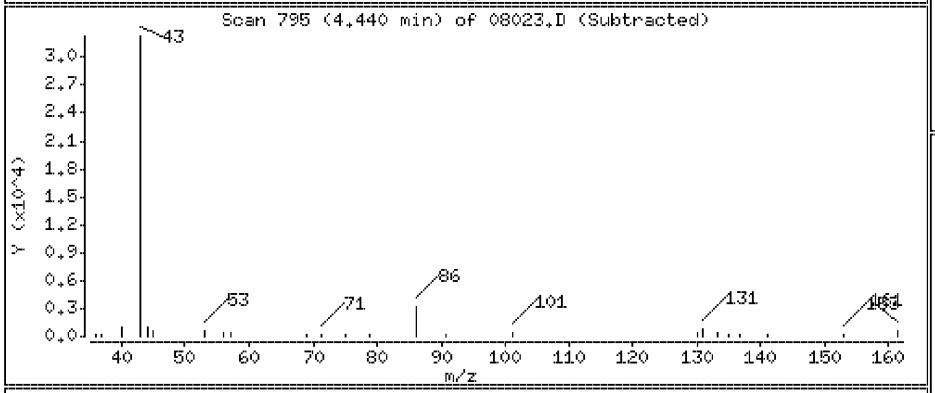
Column diameter: 0.32

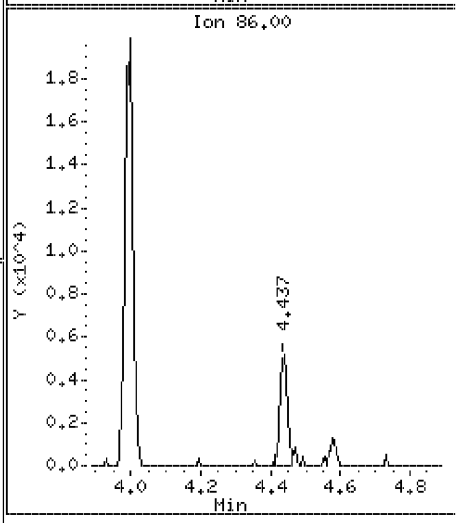
30 Vinyl Acetate

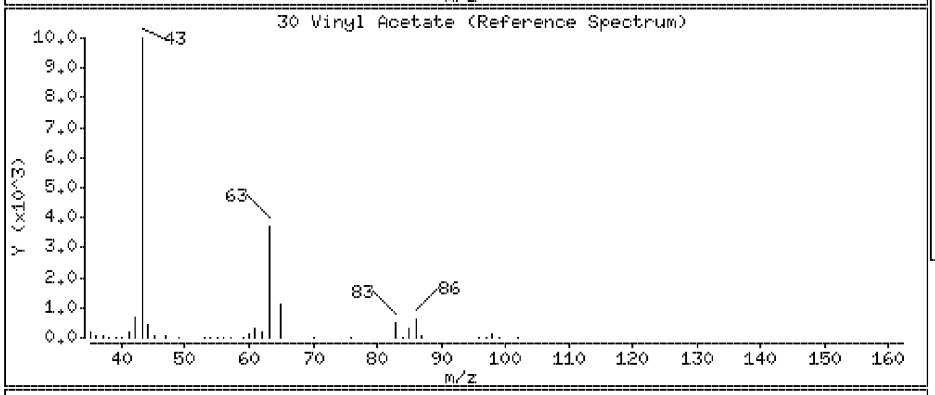
Concentration: 0.849 ppbv

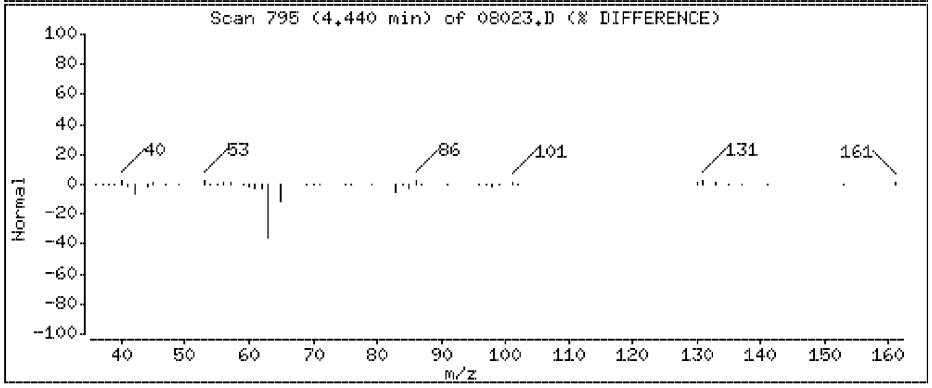












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

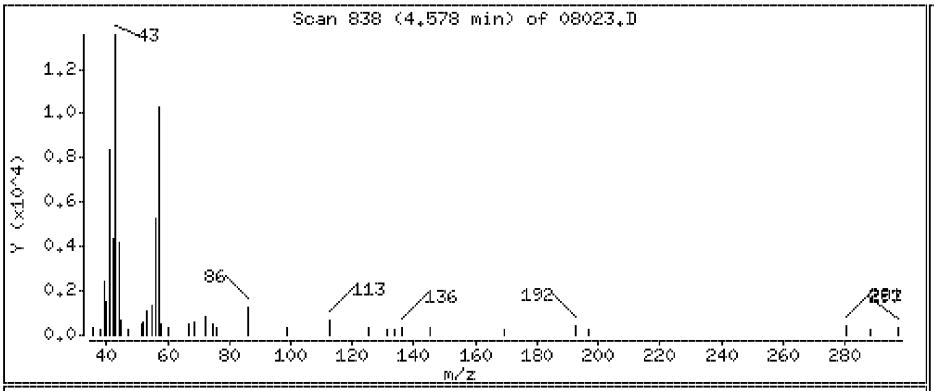
Operator: NCK

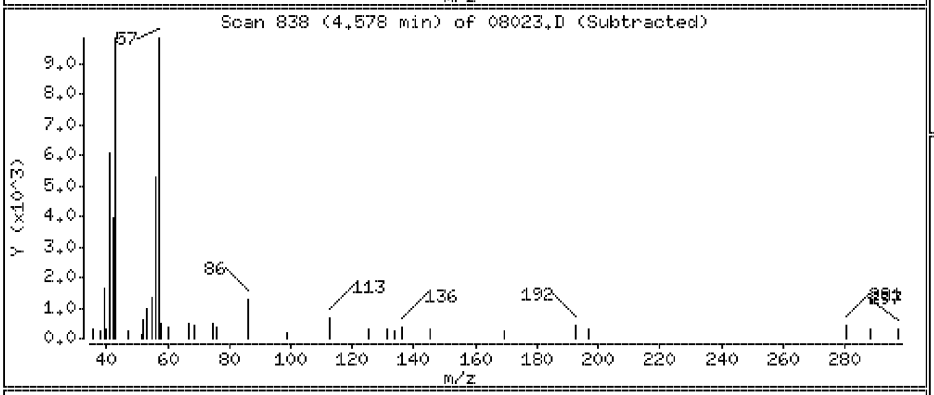
Column phase: J&W DB-5

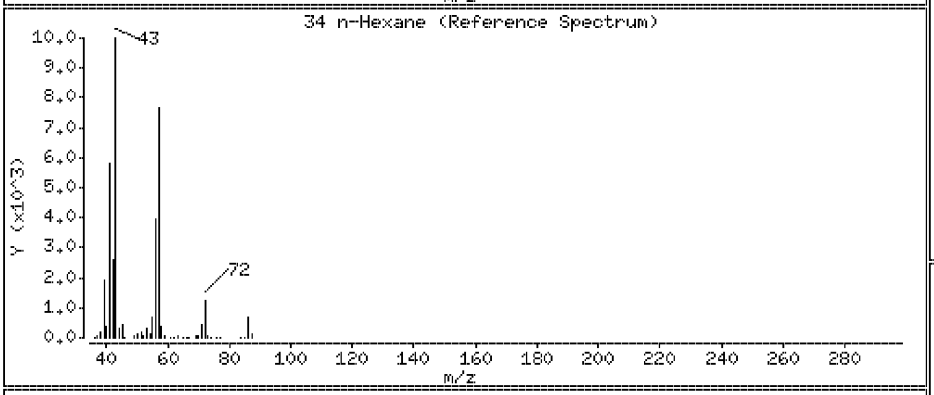
Column diameter: 0.32

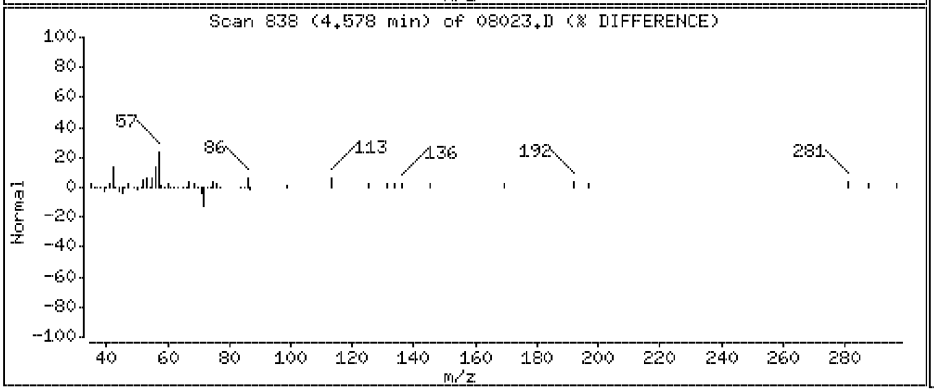
34 n-Hexane

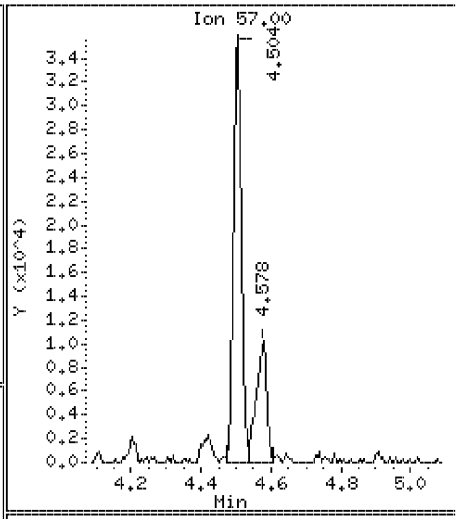
Concentration: 0.373 ppbv

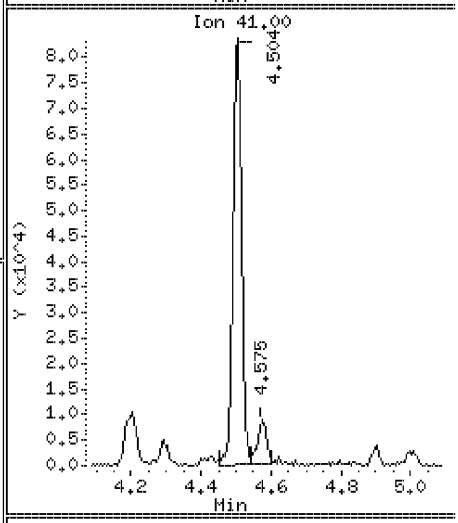


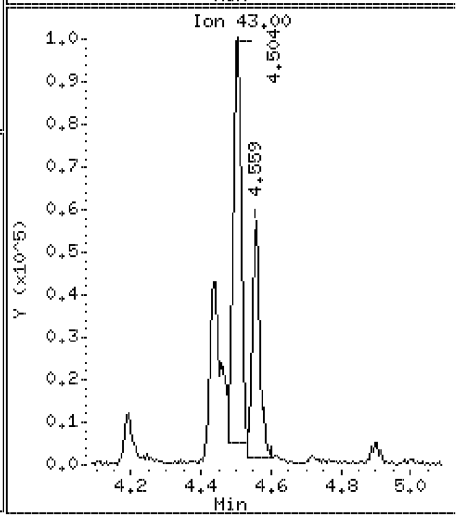












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

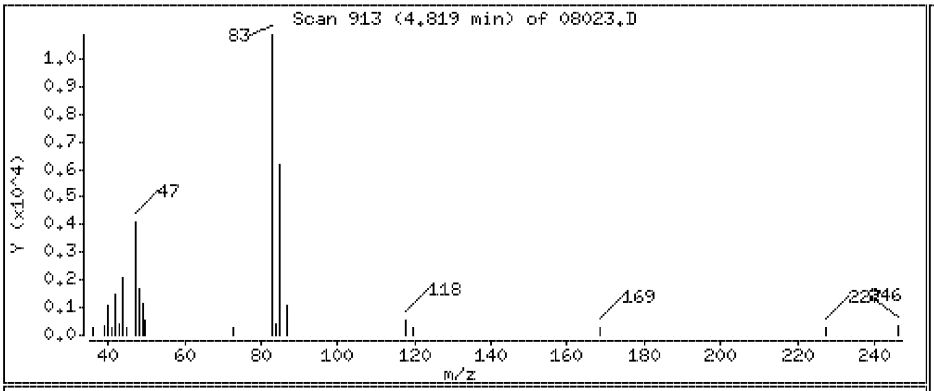
Operator: NCK

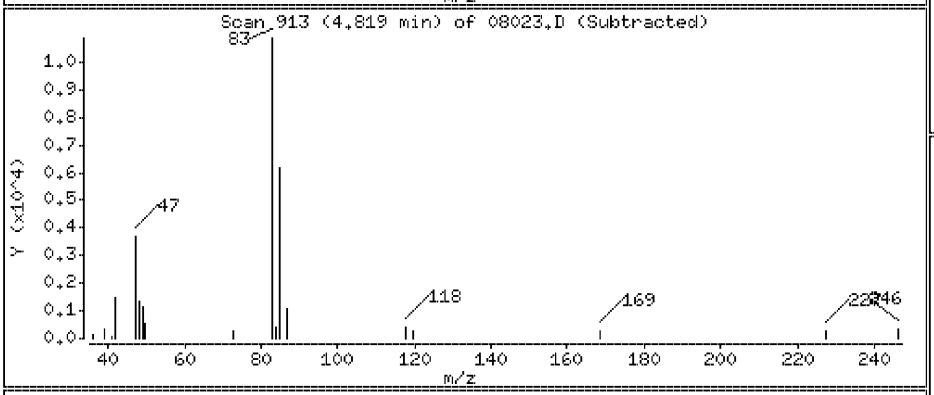
Column phase: J&W DB-5

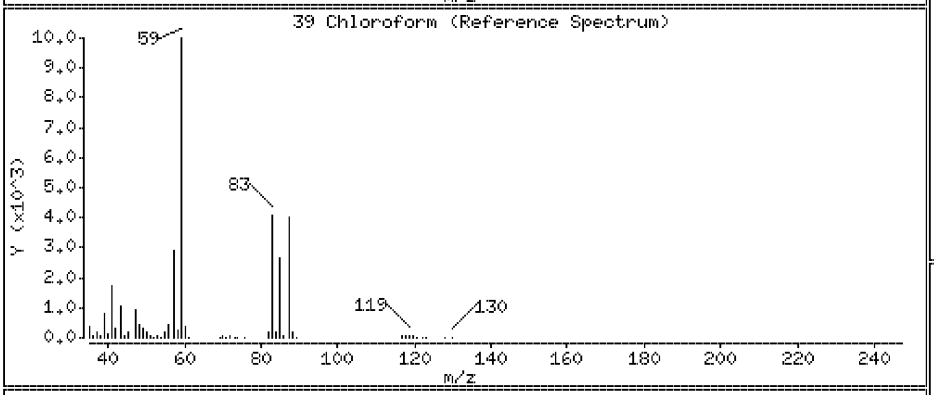
Column diameter: 0.32

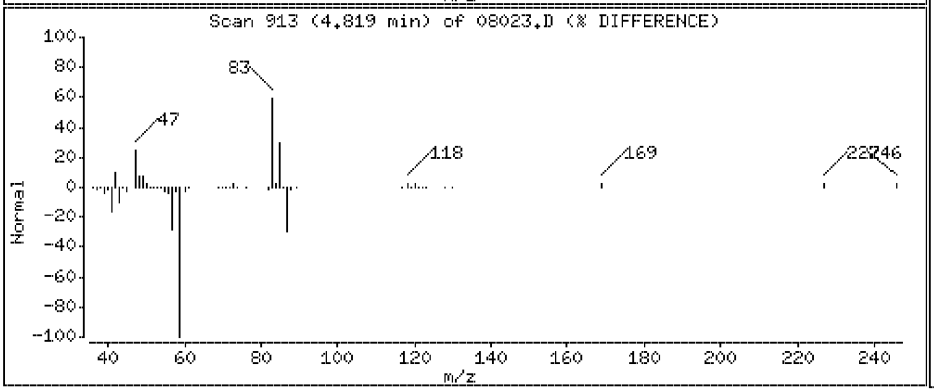
39 Chloroform

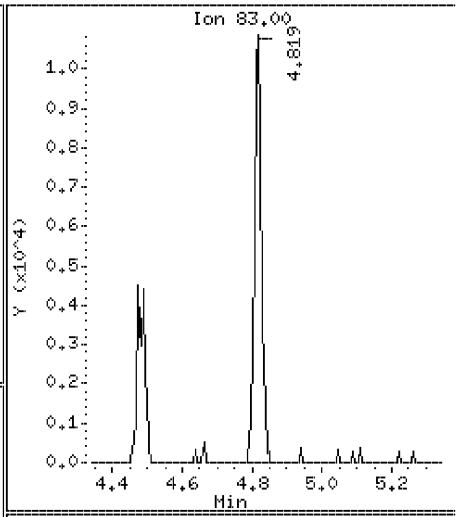
Concentration: 0.240 ppbv

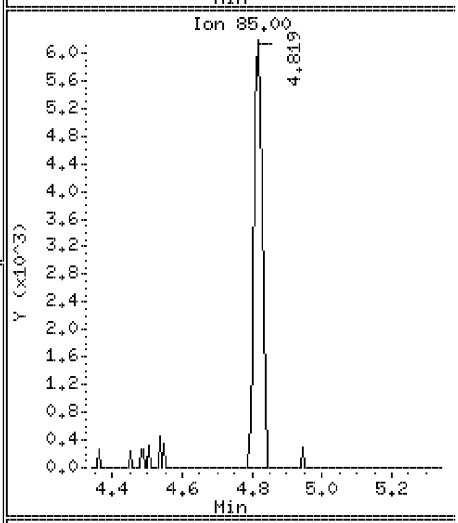


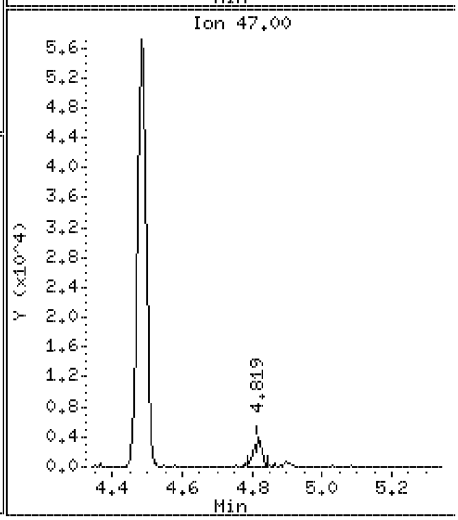












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

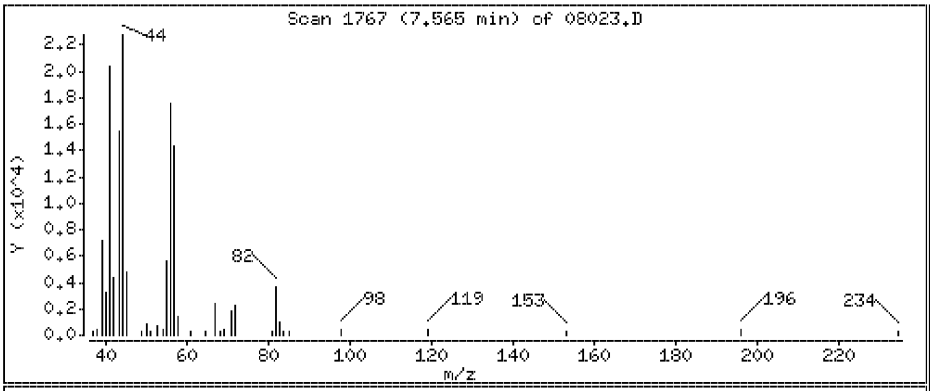
Operator: NCK

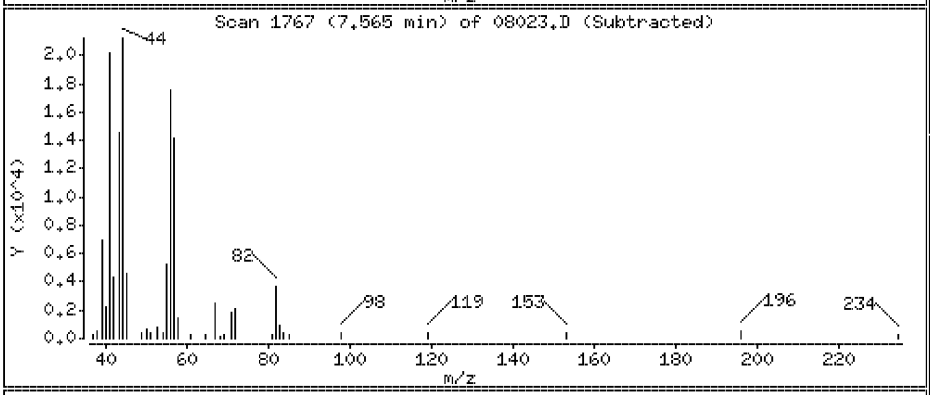
Column phase: J&W DB-5

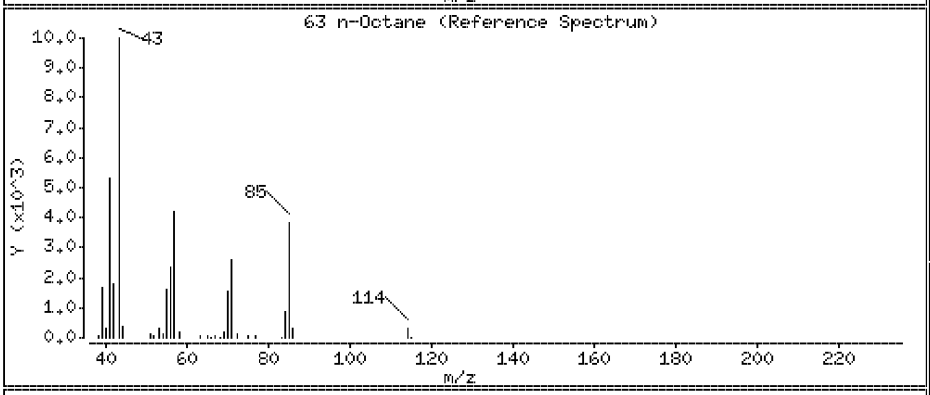
Column diameter: 0.32

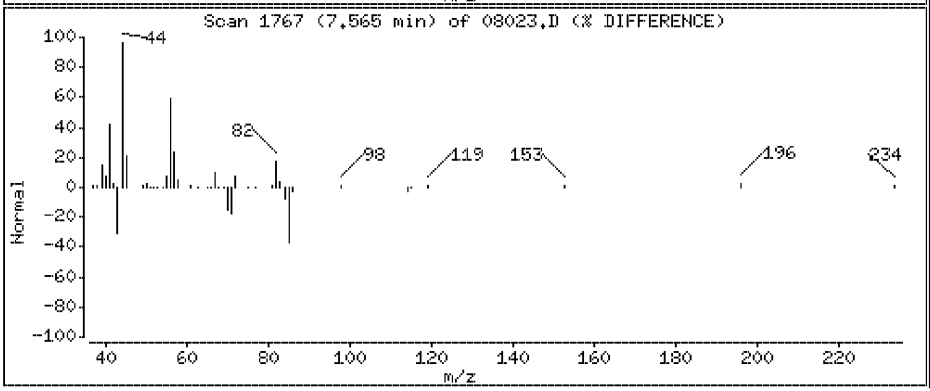
63 n-Octane

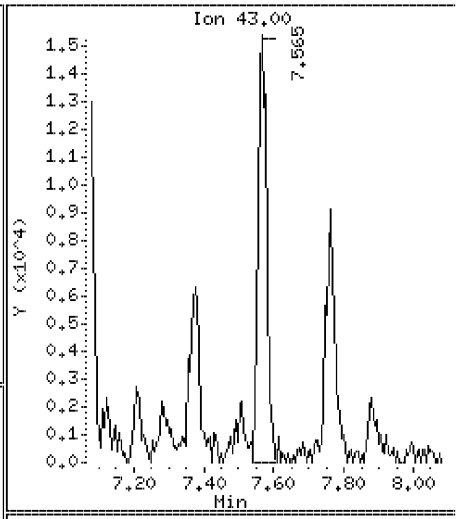
Concentration: 0.327 ppbv

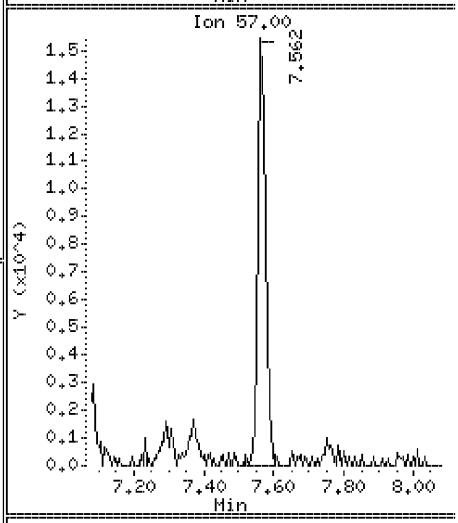


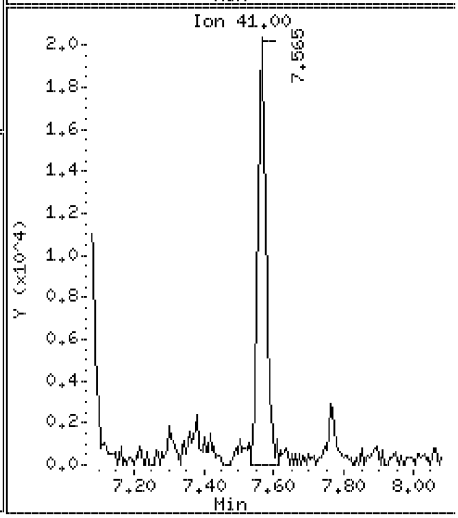












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

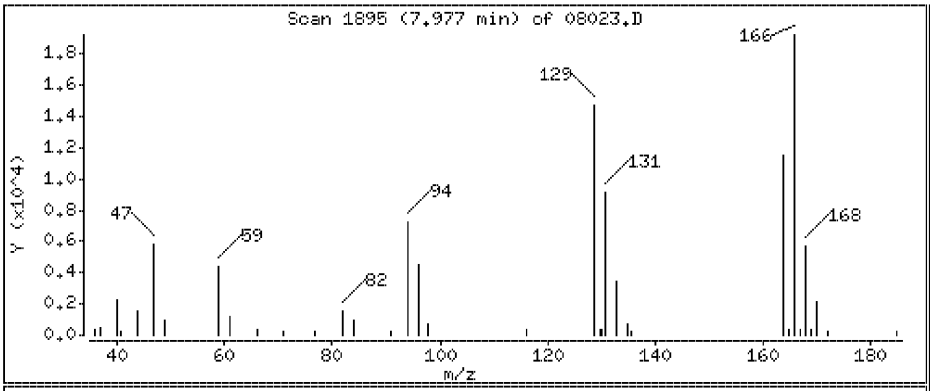
Operator: NCK

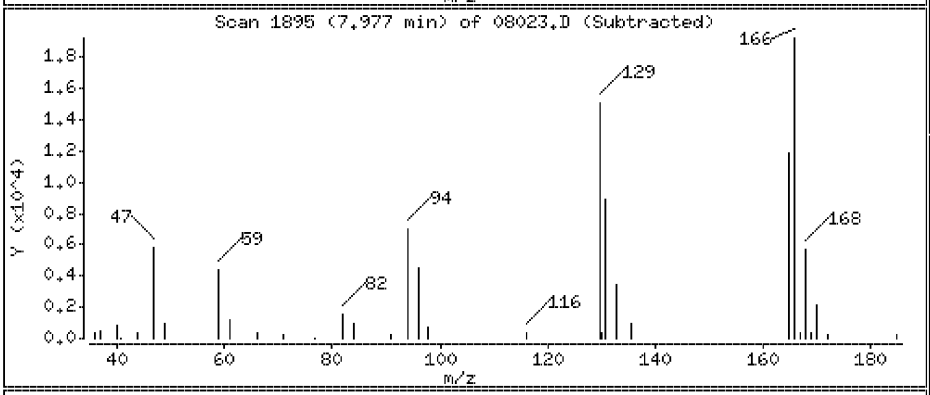
Column phase: J&W DB-5

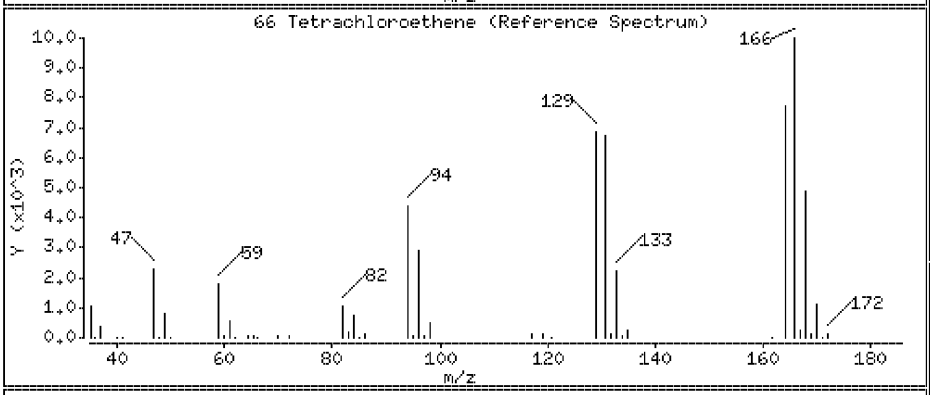
Column diameter: 0.32

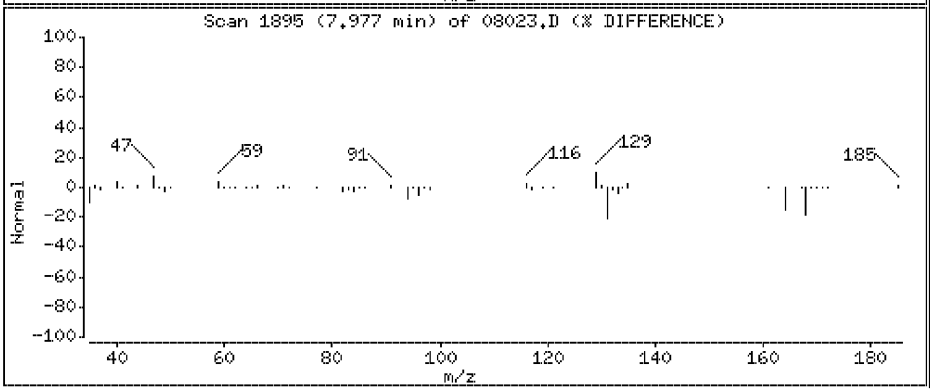
66 Tetrachloroethene

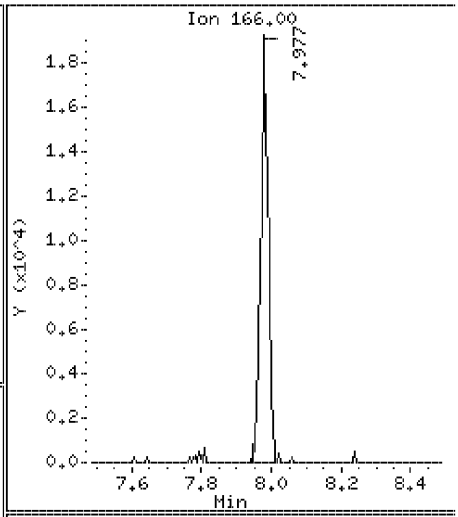
Concentration: 0.559 ppbv

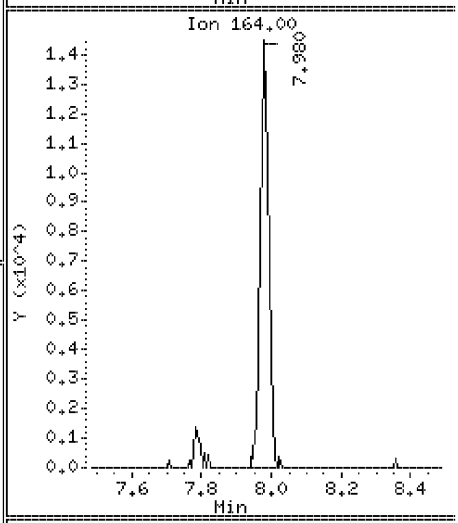


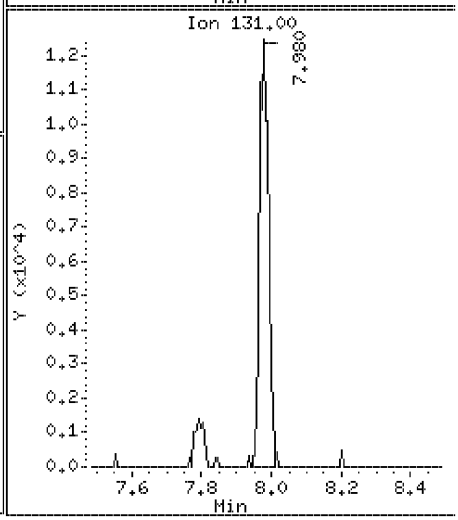












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

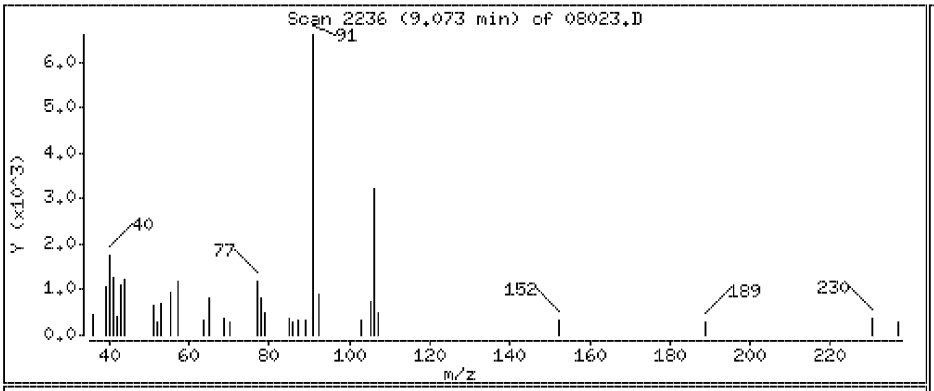
Operator: NCK

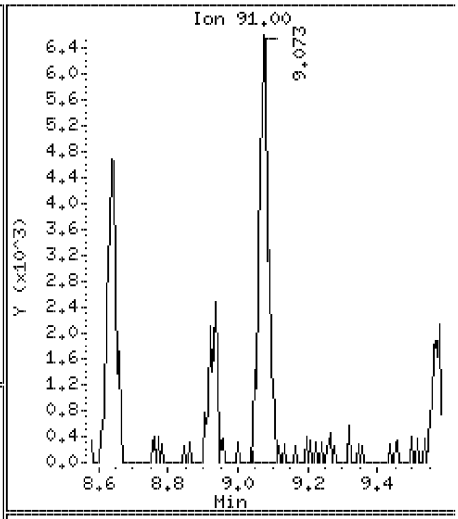
Column phase: J&W DB-5

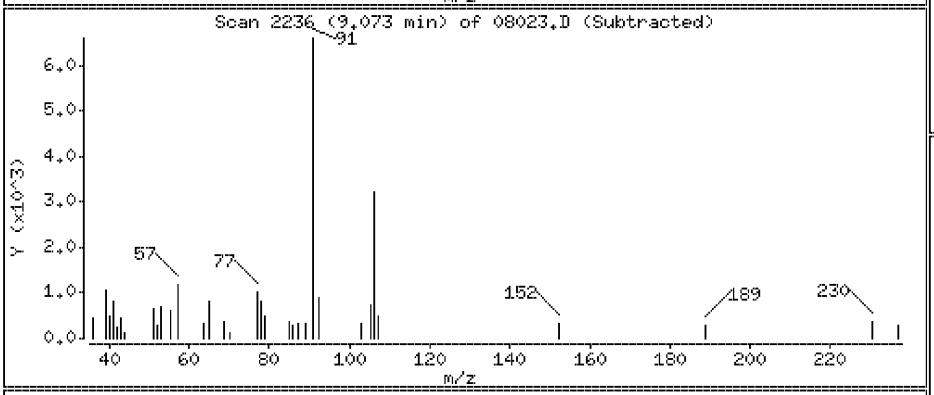
Column diameter: 0.32

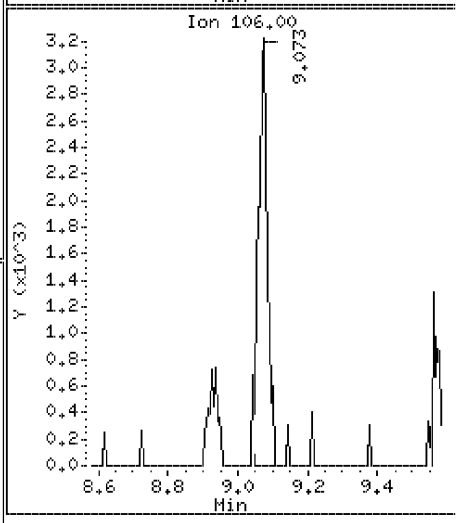
70 m&p-Xylene

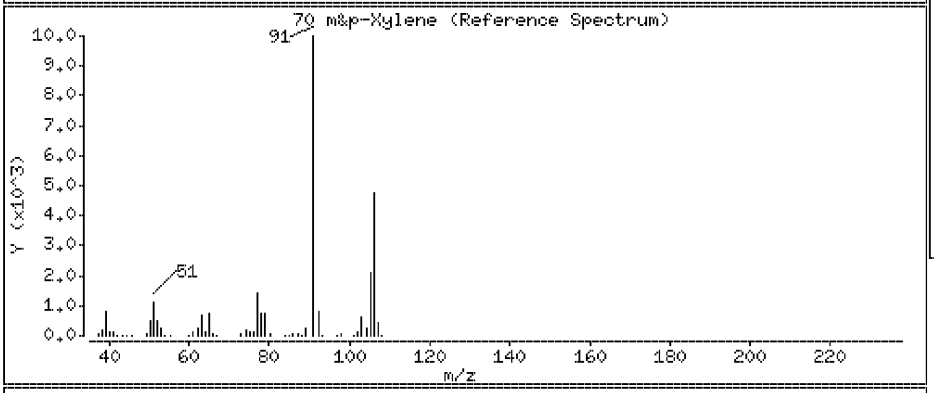
Concentration: 0.437 ppbv

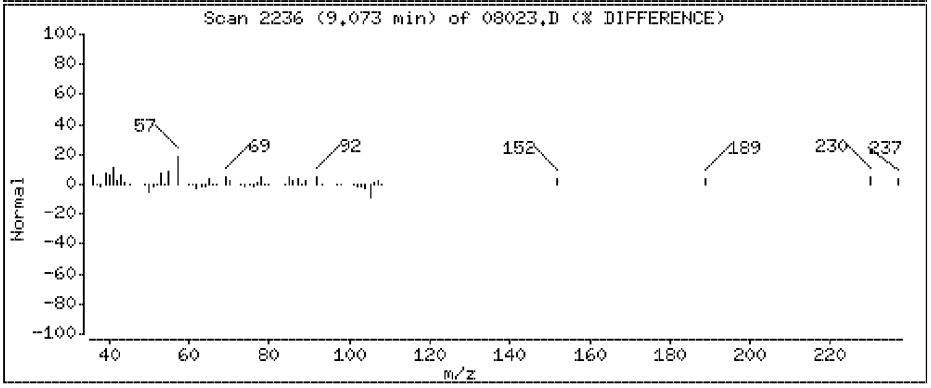












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

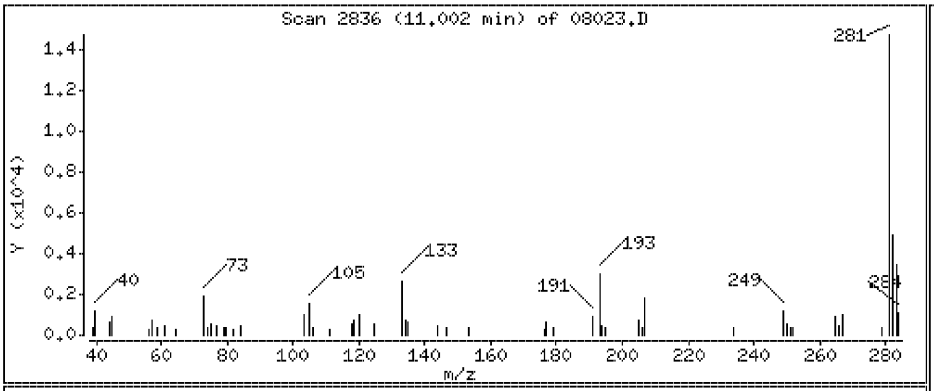
Operator: NCK

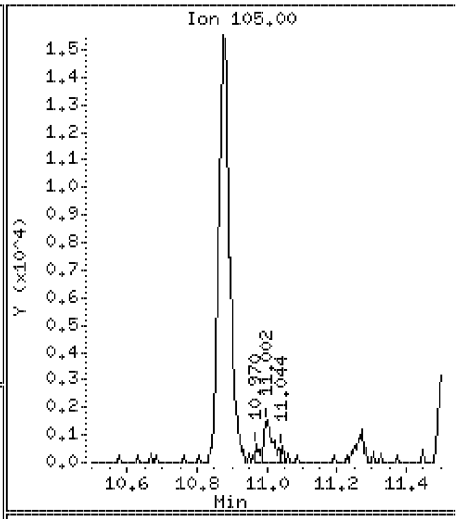
Column phase: J&W DB-5

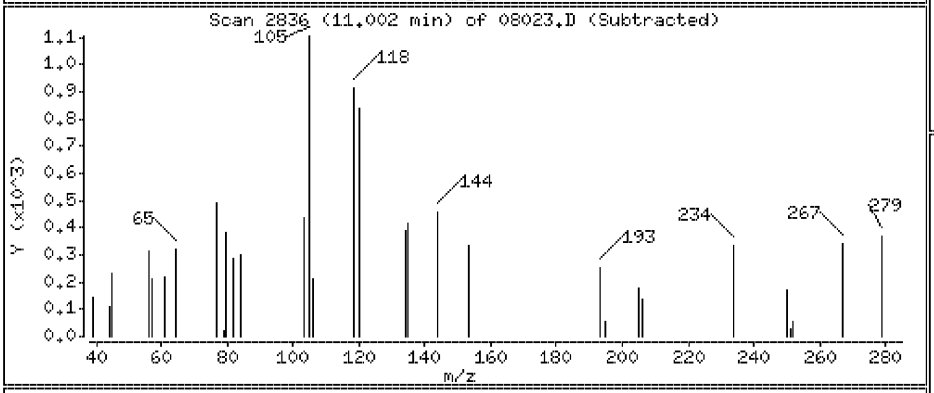
Column diameter: 0.32

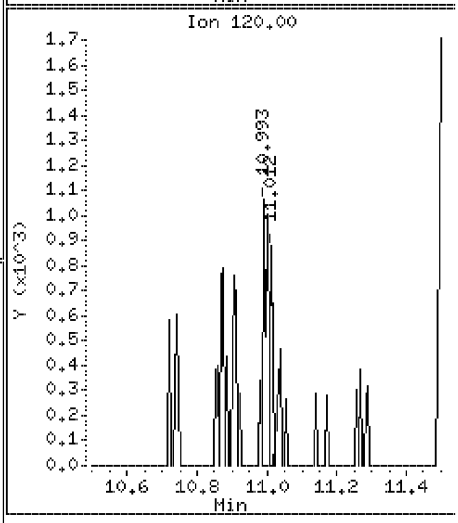
79 1,3,5-Trimethylbenzene

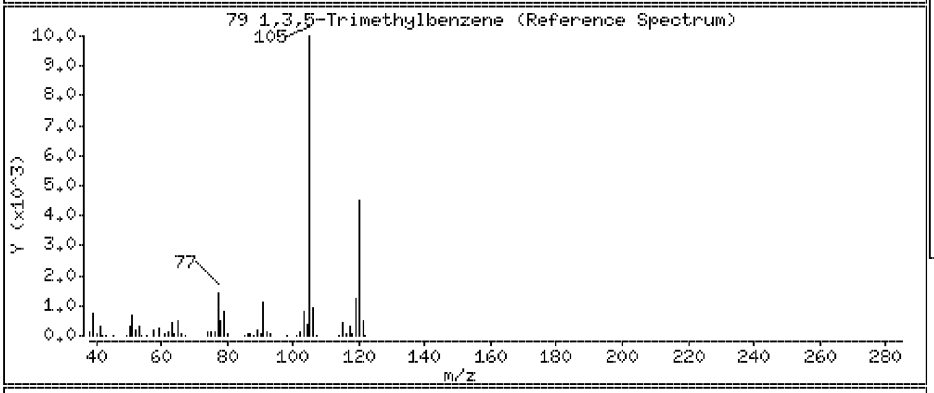
Concentration: 0.300 ppbv

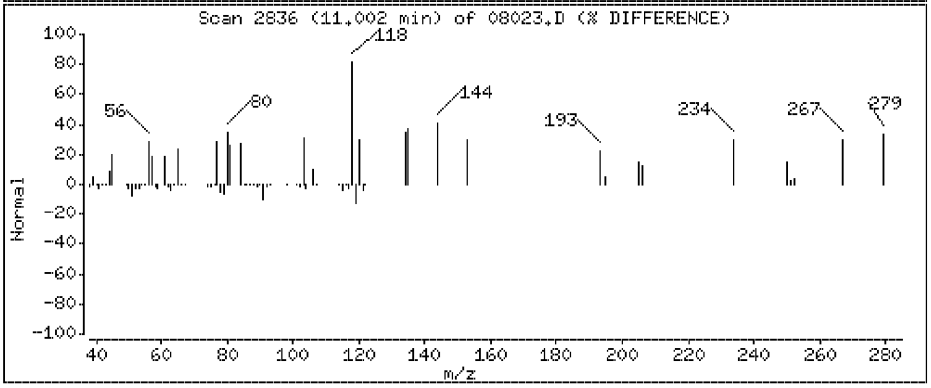












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

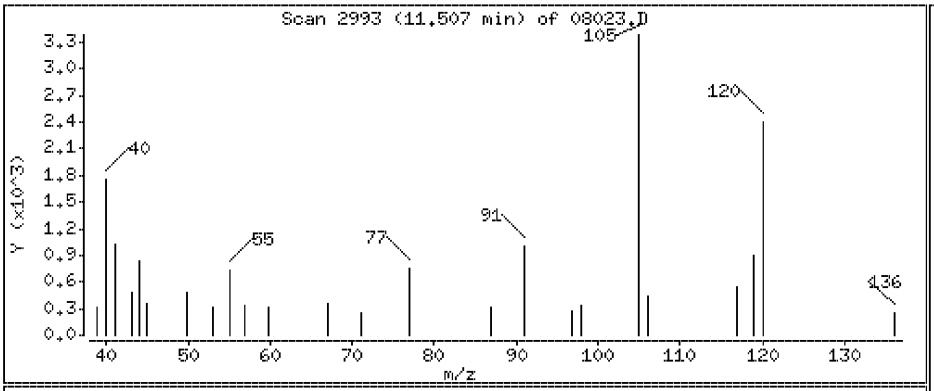
Operator: NCK

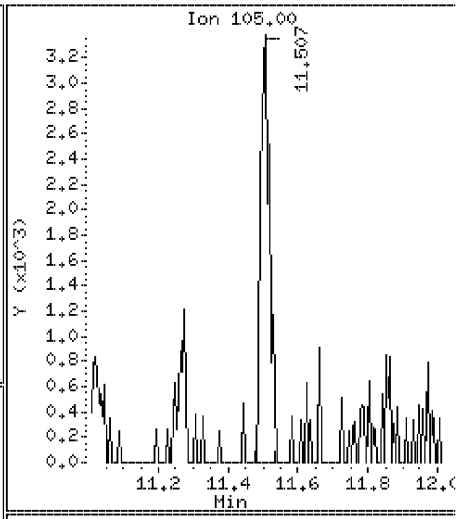
Column phase: J&W DB-5

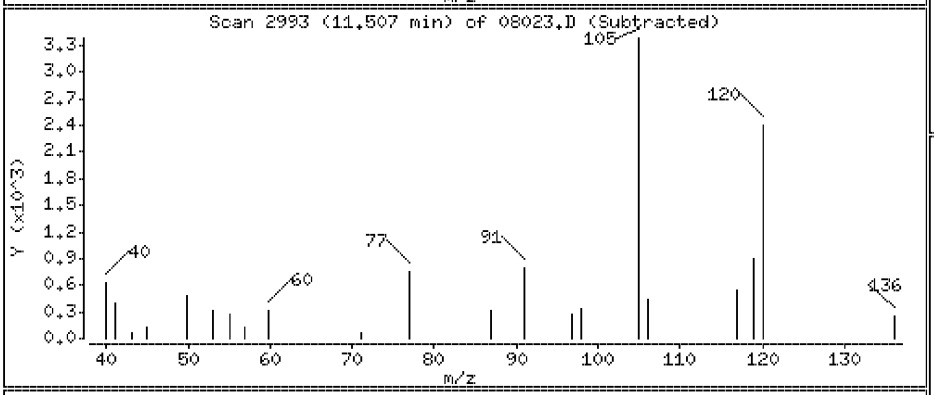
Column diameter: 0.32

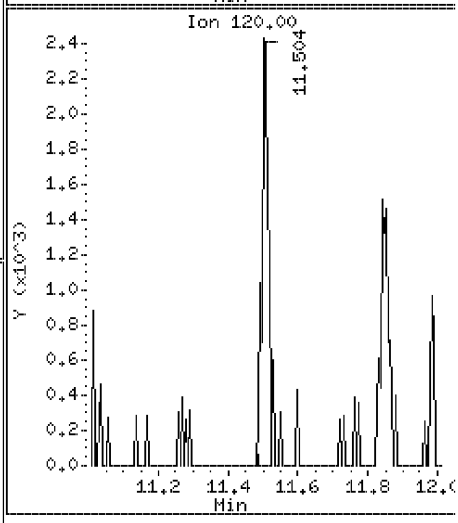
82 1,2,4-Trimethylbenzene

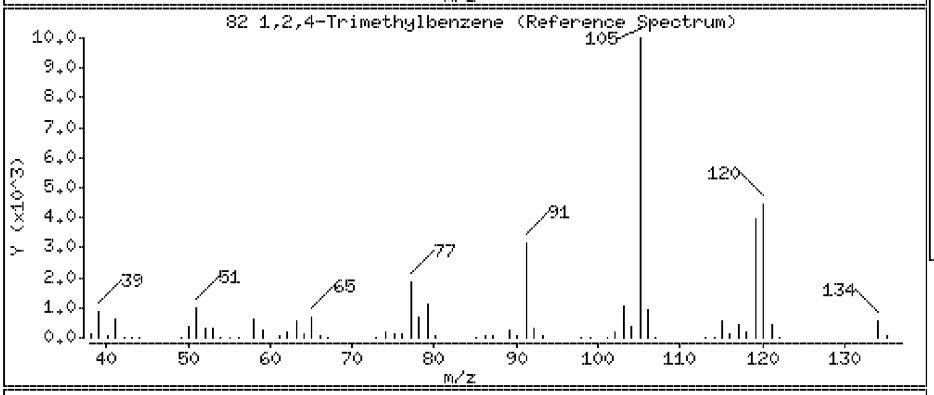
Concentration: 0.313 ppbv

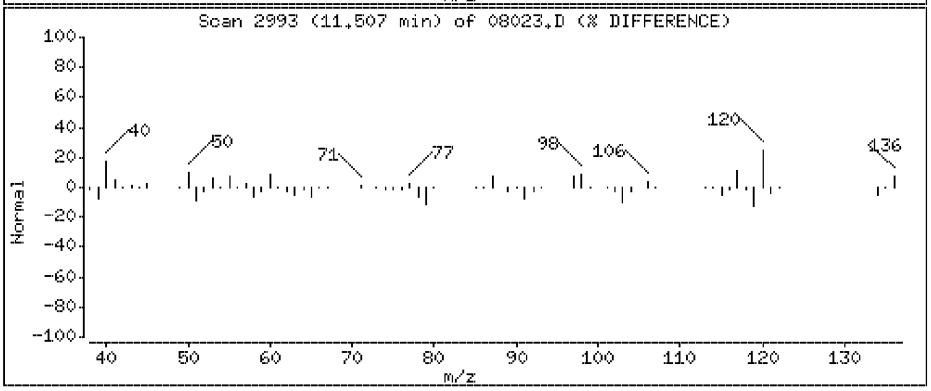












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

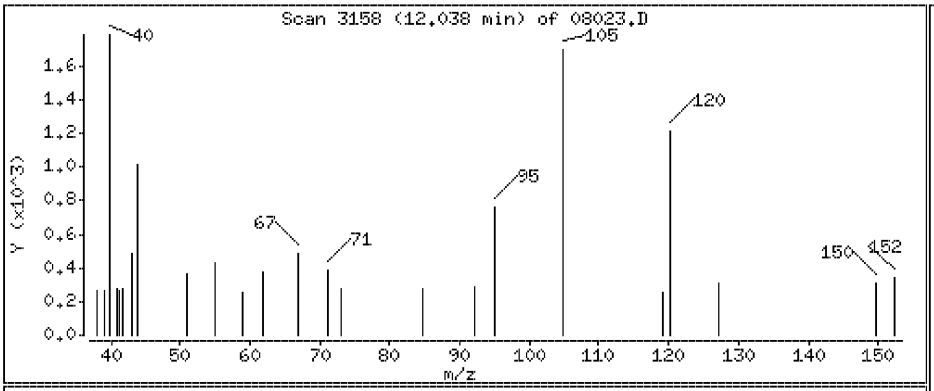
Operator: NCK

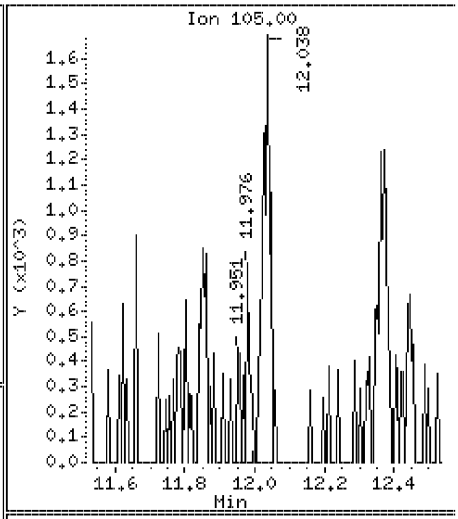
Column phase: J&W DB-5

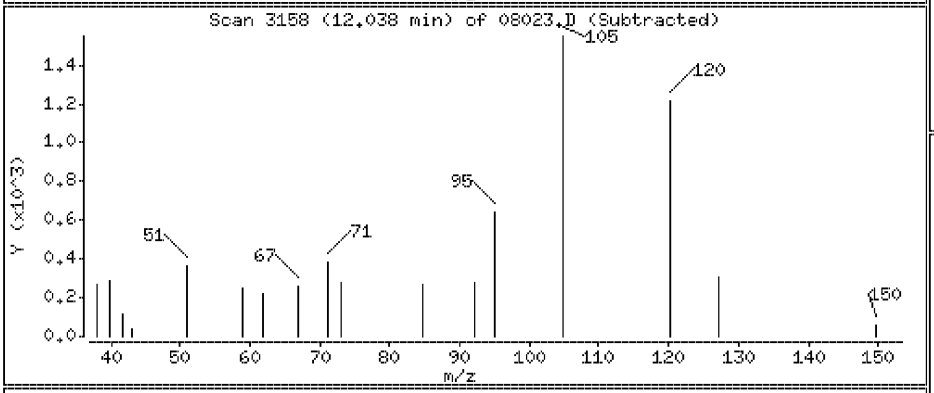
Column diameter: 0.32

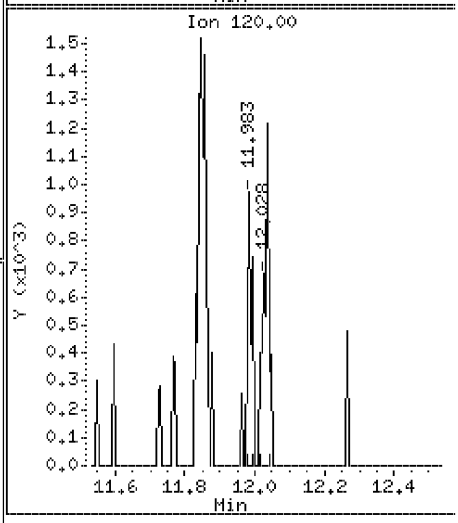
89 1,2,3-Trimethylbenzene

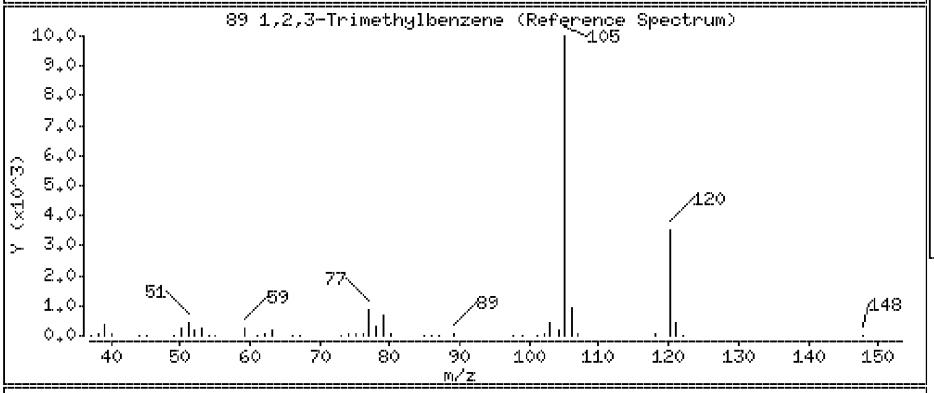
Concentration: 0.316 ppbv

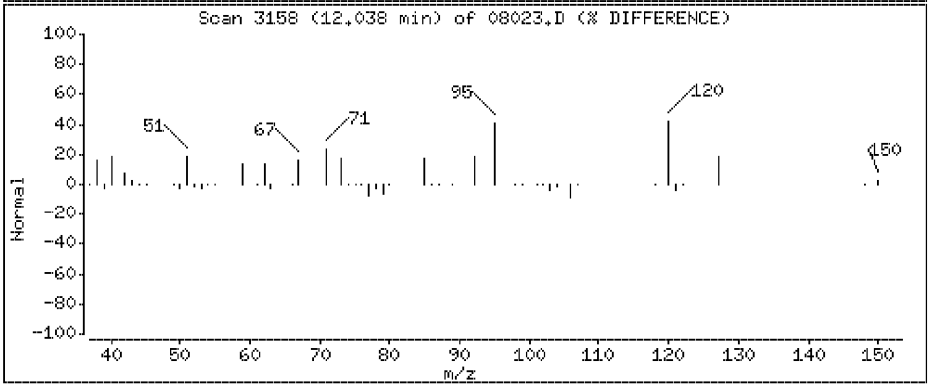












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08023.D

Date : 21-MAR-2017 19:57

Client ID:

Instrument: 10airB.i

Sample Info:

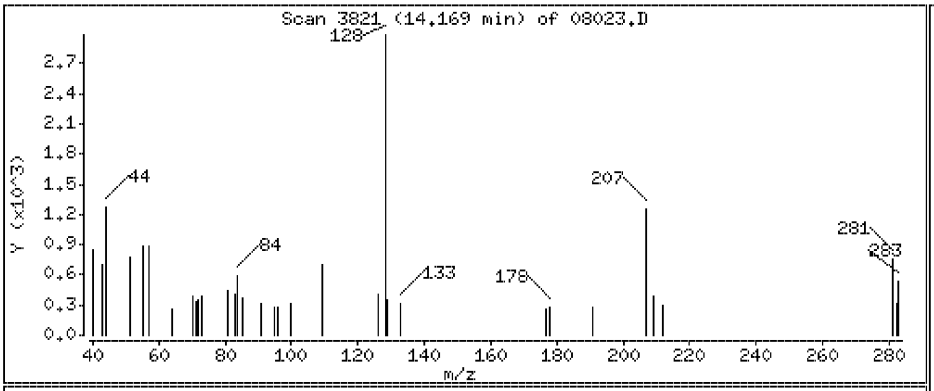
Operator: NCK

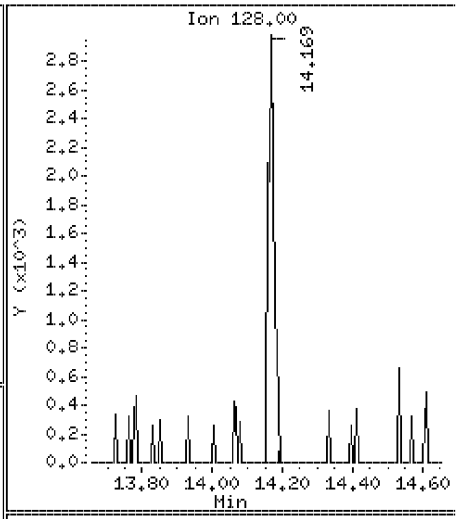
Column phase: J&W DB-5

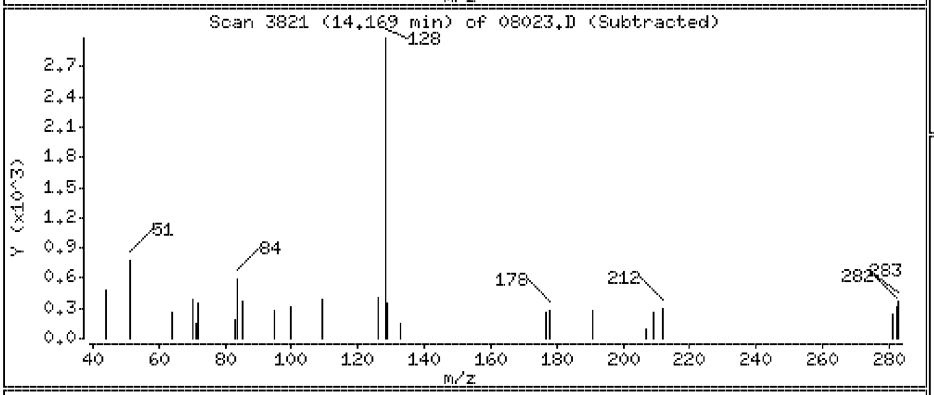
Column diameter: 0.32

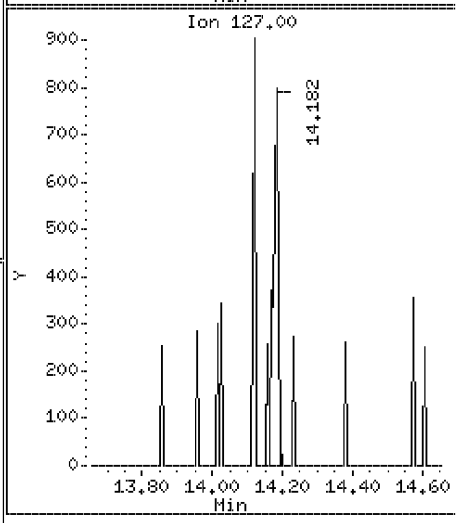
94 Naphthalene

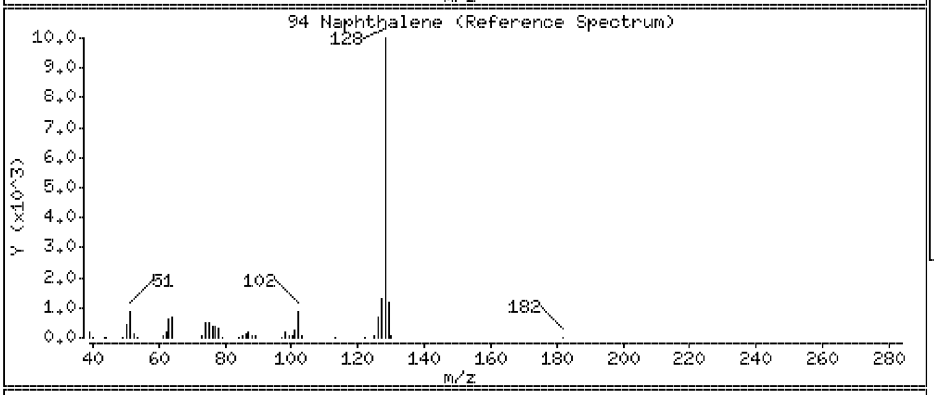
Concentration: 0.903 ppbv

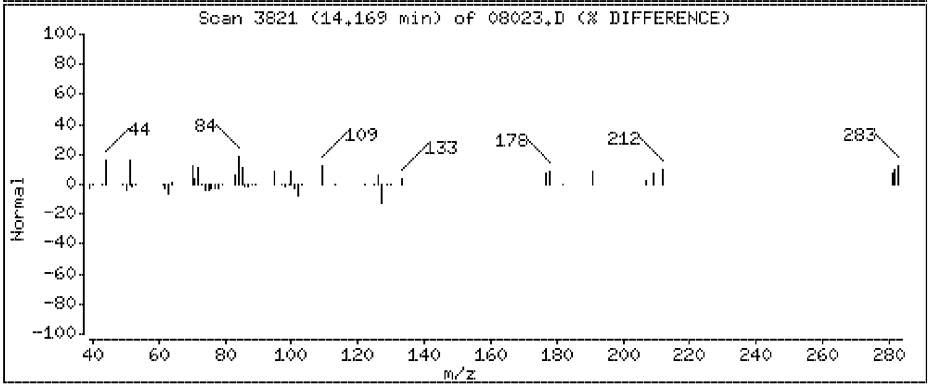






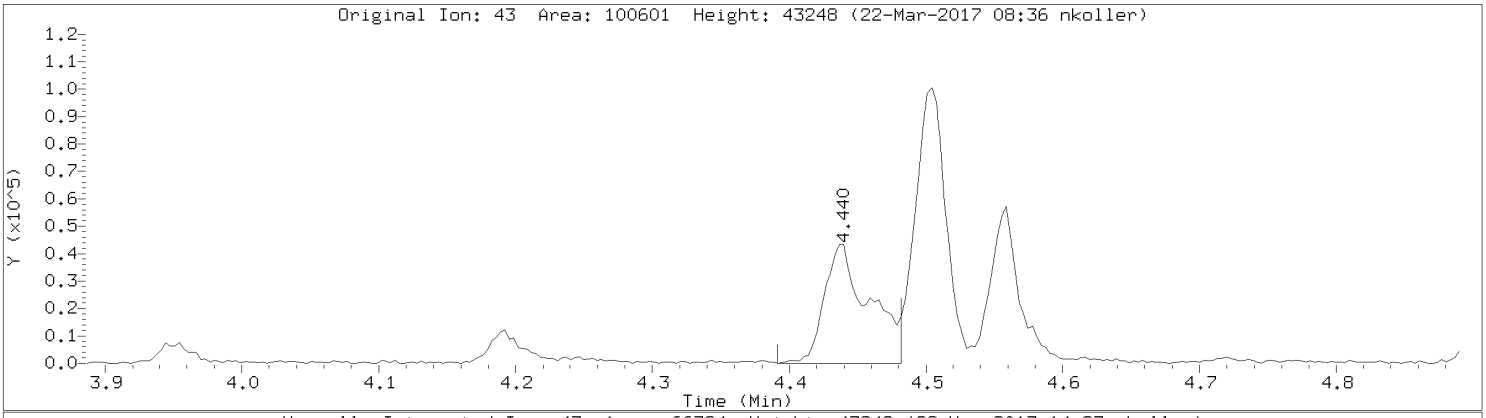


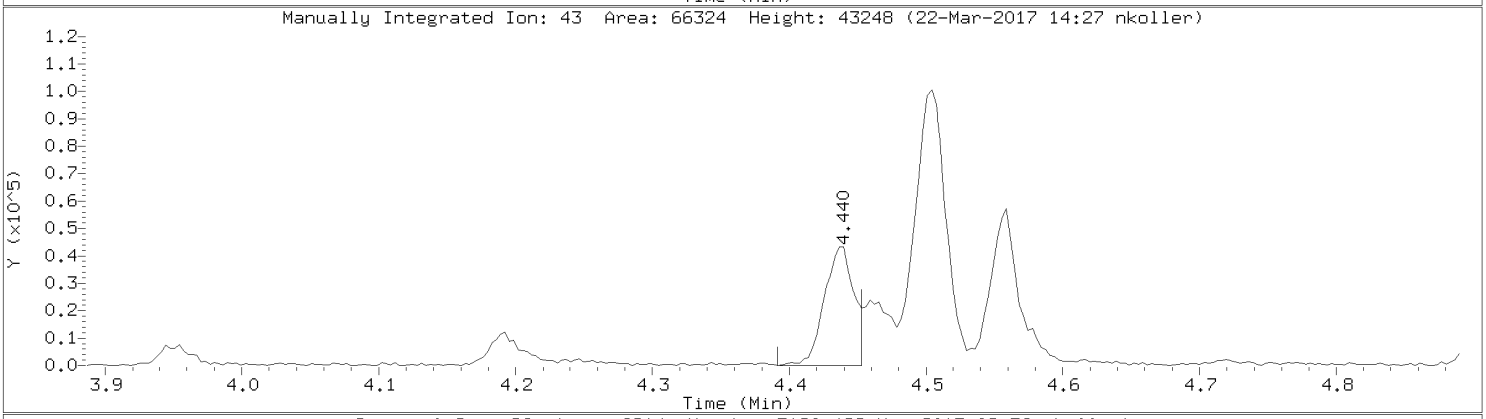


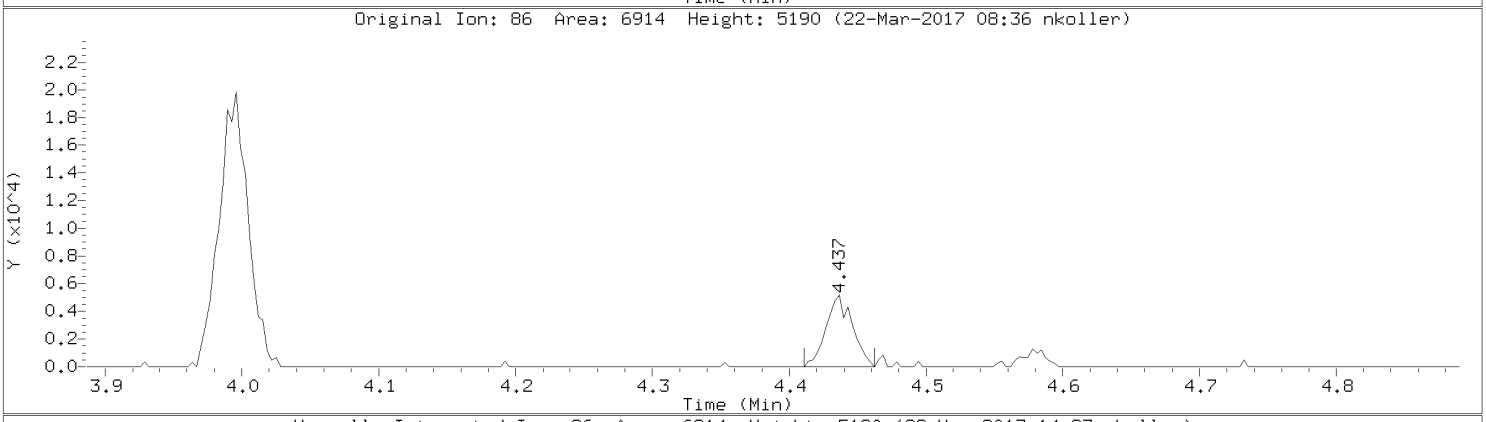


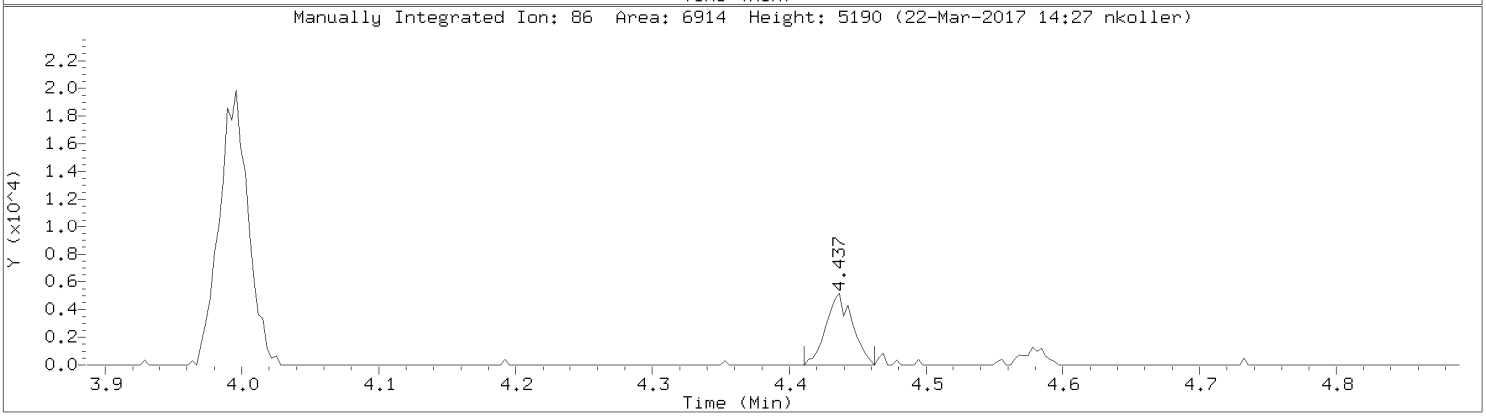
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08023.D
Injection Date: 21-MAR-2017 19:57
Instrument: 10airB.i
Lab Sample ID: 10381035013

Compound: Vinyl Acetate
CAS Number: 108-05-4









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_5_20170302 **Lab ID: 10381035013** Collected: 03/02/17 13:00 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.48**	ug/m3	5.0	0.48	2.01		03/21/17 19:57	67-63-0	
Styrene	**<0.39**	ug/m3	1.7	0.39	2.01		03/21/17 19:57	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	2.8	0.66	2.01		03/21/17 19:57	79-34-5	
Tetrachloroethene	**3.9**	ug/m3	1.4	0.56	2.01		03/21/17 19:57	127-18-4	
Toluene	**<0.31**	ug/m3	1.5	0.31	2.01		03/21/17 19:57	108-88-3	
1,2,4-Trichlorobenzene	**<1.8**	ug/m3	7.6	1.8	2.01		03/21/17 19:57	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	2.2	0.50	2.01		03/21/17 19:57	71-55-6	
1,1,2-Trichloroethane	**<0.49**	ug/m3	1.1	0.49	2.01		03/21/17 19:57	79-00-5	
Trichloroethene	**<0.55**	ug/m3	1.1	0.55	2.01		03/21/17 19:57	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.3	0.27	2.01		03/21/17 19:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.61**	ug/m3	3.2	0.61	2.01		03/21/17 19:57	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	2.0	0.25	2.01		03/21/17 19:57	95-63-6	
1,3,5-Trimethylbenzene	**1.5J**	ug/m3	2.0	0.37	2.01		03/21/17 19:57	108-67-8	
Vinyl chloride	**<0.39**	ug/m3	0.52	0.39	2.01		03/21/17 19:57	75-01-4	
m&p-Xylene	**1.9J**	ug/m3	3.6	1.6	2.01		03/21/17 19:57	179601-23-1	
o-Xylene	**<0.71**	ug/m3	1.8	0.71	2.01		03/21/17 19:57	95-47-6	

Sample: VP-106_11_20170302 **Lab ID: 10381035014** Collected: 03/02/17 12:49 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**7.9**	ug/m3	4.1	1.4	1.68		03/21/17 20:28	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 20:28	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/21/17 20:28	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 20:28	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 20:28	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 20:28	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 20:28	106-99-0	
2-Butanone (MEK)	**6.1**	ug/m3	5.0	0.38	1.68		03/21/17 20:28	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/21/17 20:28	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 20:28	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 20:28	108-90-7	
Chlorodifluoromethane	**0.74J**	ug/m3	1.2	0.46	1.68		03/21/17 20:28	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 20:28	75-00-3	
Chloroform	**1.1**	ug/m3	0.83	0.32	1.68		03/21/17 20:28	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 20:28	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 20:28	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/21/17 20:28	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 20:28	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 20:28	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 20:28	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 20:28	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 20:28	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_11_20170302 **Lab ID: 10381035014** Collected: 03/02/17 12:49 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/21/17 20:28	106-46-7	
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/21/17 20:28	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 20:28	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 20:28	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/21/17 20:28	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 20:28	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/21/17 20:28	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 20:28	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 20:28	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 20:28	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 20:28	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 20:28	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 20:28	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 20:28	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/21/17 20:28	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 20:28	87-68-3	
n-Hexane	**1.0J**	ug/m3	1.2	0.60	1.68		03/21/17 20:28	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 20:28	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 20:28	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 20:28	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 20:28	108-87-2	
Methylene Chloride	**<0.91**	ug/m3	5.9	0.91	1.68		03/21/17 20:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 20:28	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 20:28	1634-04-4	
2-Propanol	**<0.40**	ug/m3	4.2	0.40	1.68		03/21/17 20:28	67-63-0	
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/21/17 20:28	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 20:28	79-34-5	
Tetrachloroethene	**8.4**	ug/m3	1.2	0.47	1.68		03/21/17 20:28	127-18-4	
Toluene	**<0.26**	ug/m3	1.3	0.26	1.68		03/21/17 20:28	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 20:28	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/21/17 20:28	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 20:28	79-00-5	
Trichloroethene	**1.5**	ug/m3	0.92	0.46	1.68		03/21/17 20:28	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	1.9	0.22	1.68		03/21/17 20:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.51**	ug/m3	2.7	0.51	1.68		03/21/17 20:28	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.21	1.68		03/21/17 20:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/21/17 20:28	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 20:28	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/21/17 20:28	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/21/17 20:28	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D
Report Date: 22-Mar-2017 14:30

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08024.D
Lab Smp Id: 10381035014
Inj Date : 21-MAR-2017 20:28
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 24
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.028	3.034	(0.541)	2339	0.12325	0.207	(QM)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.545	(0.634)	65541	2.71027	4.55	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.658	3.677	(0.654)	17473	0.13368	0.225	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.716	3.722	(0.664)	203680	1.95084	3.28	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D
Report Date: 22-Mar-2017 14:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.430	4.388	(0.791)	15985	0.10188	0.171	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.801)	2055649	9.28497	9.28	
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.814)	29152	1.21080	2.03(Q)	
	34 n-Hexane	57	4.555	4.587	(0.814)	18728	0.16909	0.284(QH)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.719	4.716	(0.843)	44695	0.28683	0.482(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.860)	15965	0.13560	0.228	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	6459444	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.970	5.986	(1.067)	14682	0.16878	0.284	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.263)	5648237	9.49564	9.50	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	67024	0.72359	1.22	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	4083427	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D
Report Date: 22-Mar-2017 14:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.378	11.381	(2.033)	21934	0.16949	0.285(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.503	11.510	(1.332)	3525	0.14716	0.247	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	1870878	9.49427	9.49	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	14073	0.53633	0.901	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D
Report Date: 22-Mar-2017 14:30

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08024.D
Lab Smp Id: 10381035014
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

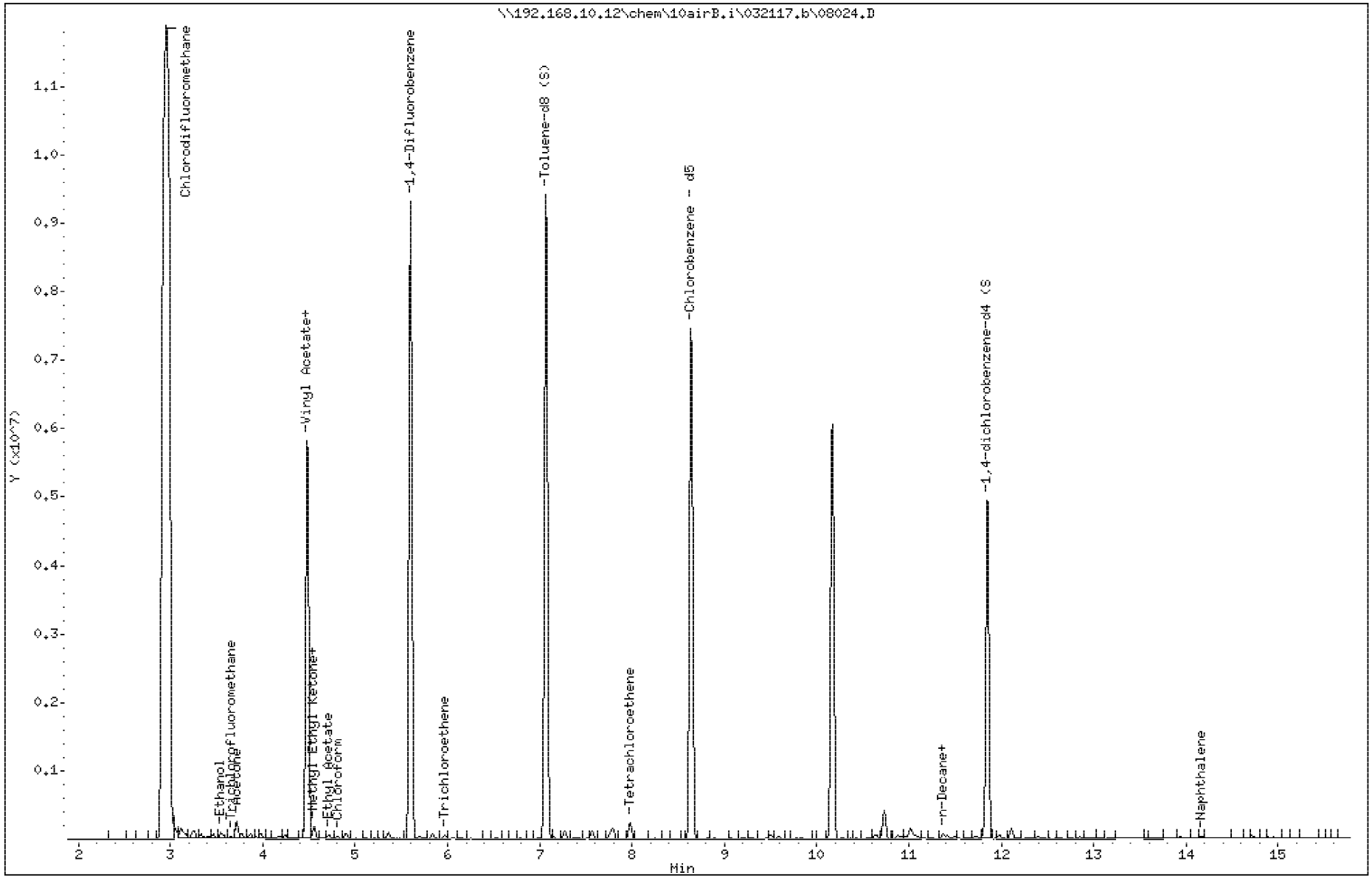
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6459444	-15.46
67 Chlorobenzene - d	5205948	3123569	7288327	4083427	-21.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D
Date : 21-MAR-2017 20:28
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

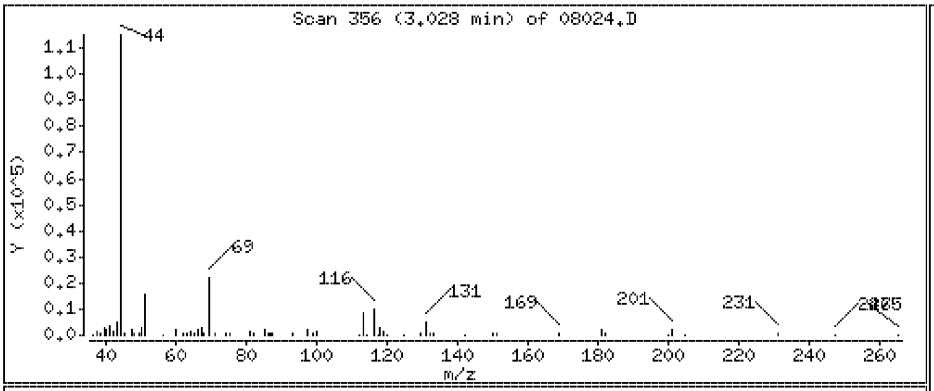
Operator: NCK

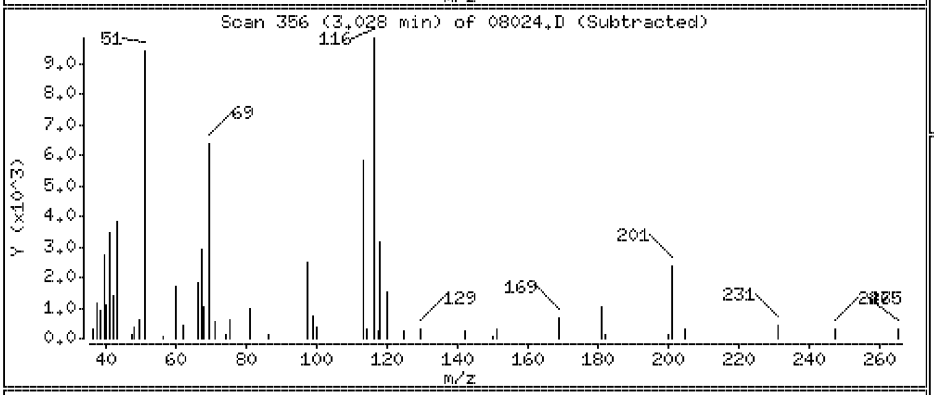
Column phase: J&W DB-5

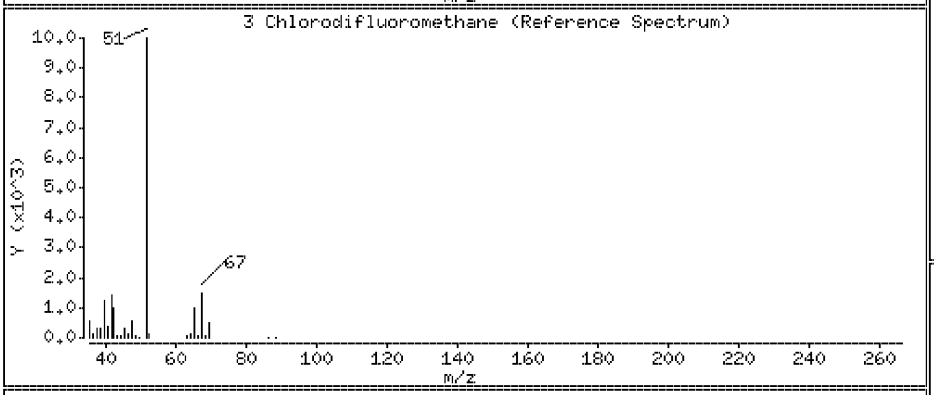
Column diameter: 0.32

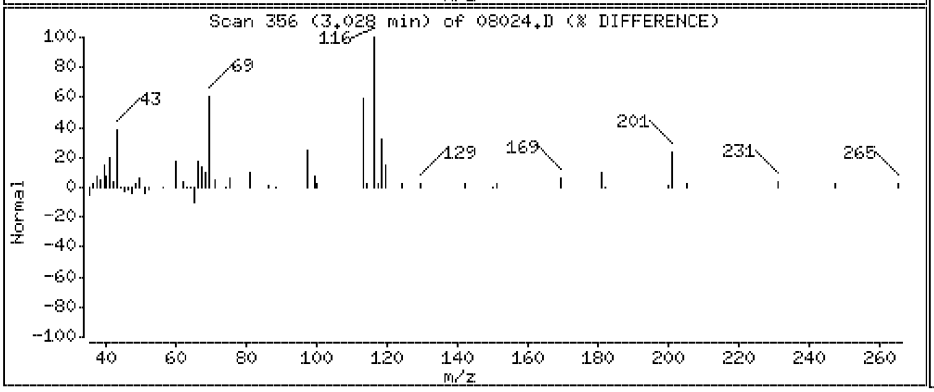
3 Chlorodifluoromethane

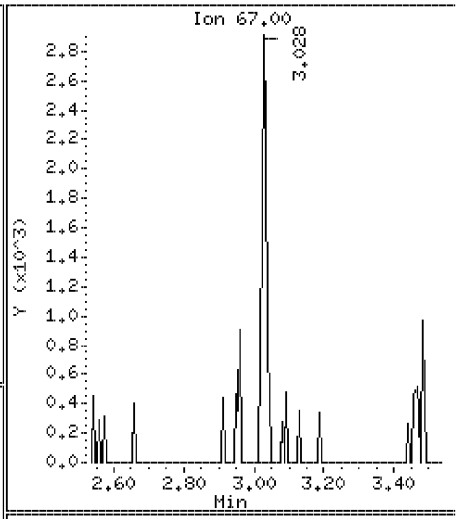
Concentration: 0.207 ppbv

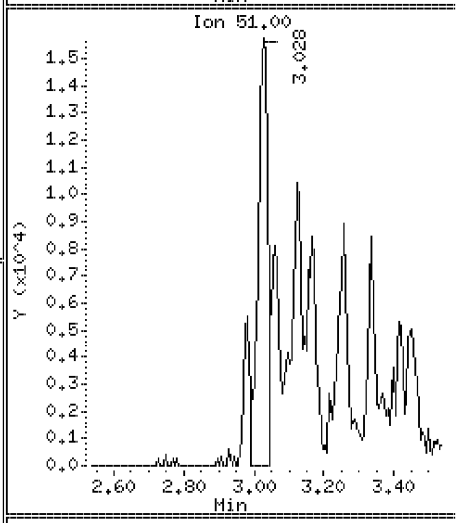


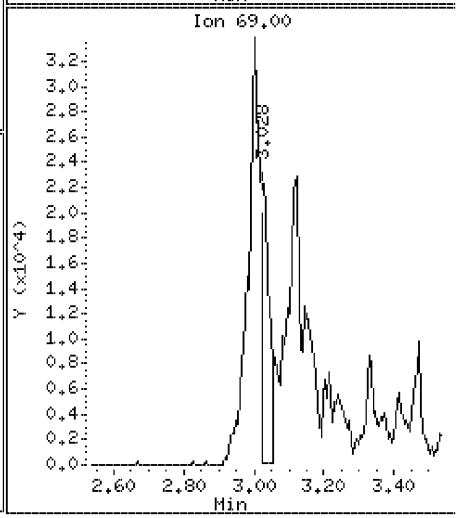












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

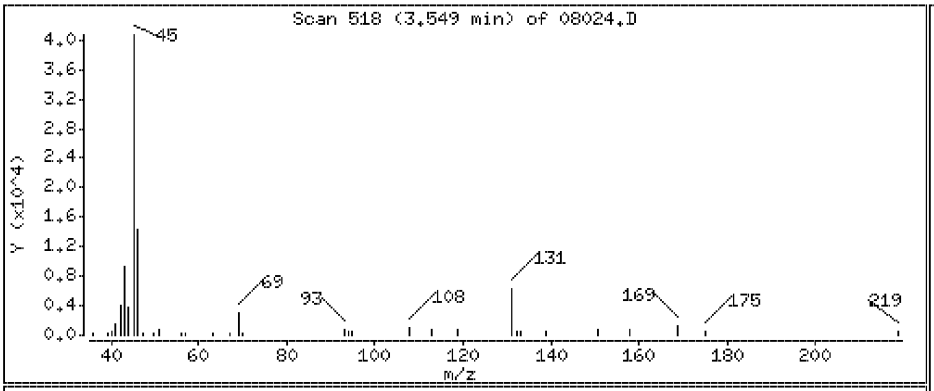
Operator: NCK

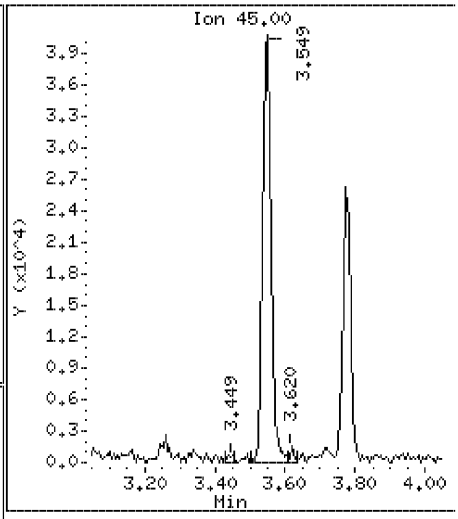
Column phase: J&W DB-5

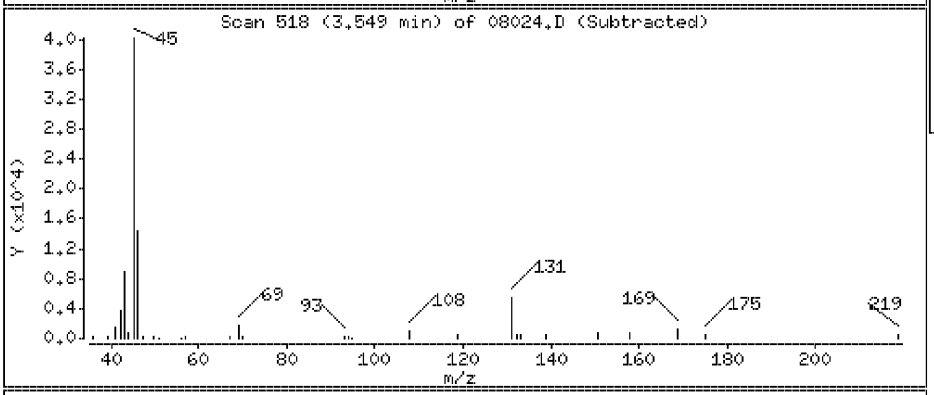
Column diameter: 0.32

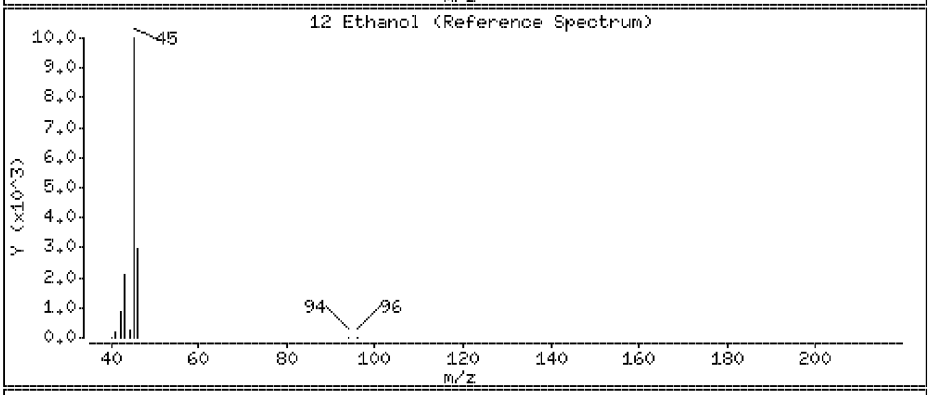
12 Ethanol

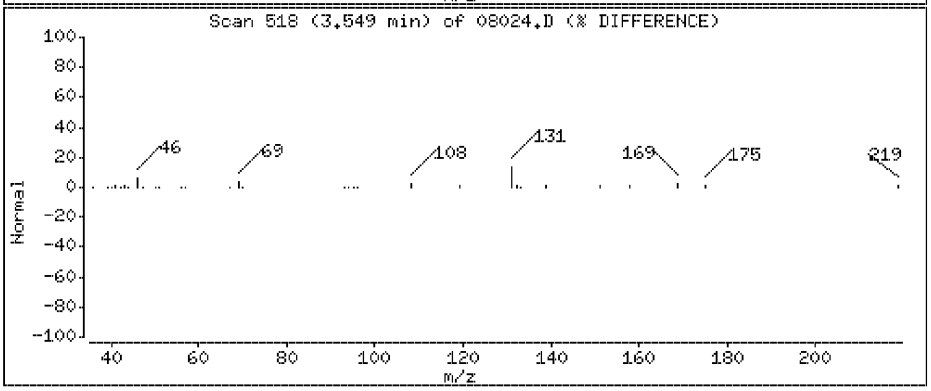
Concentration: 4.55 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

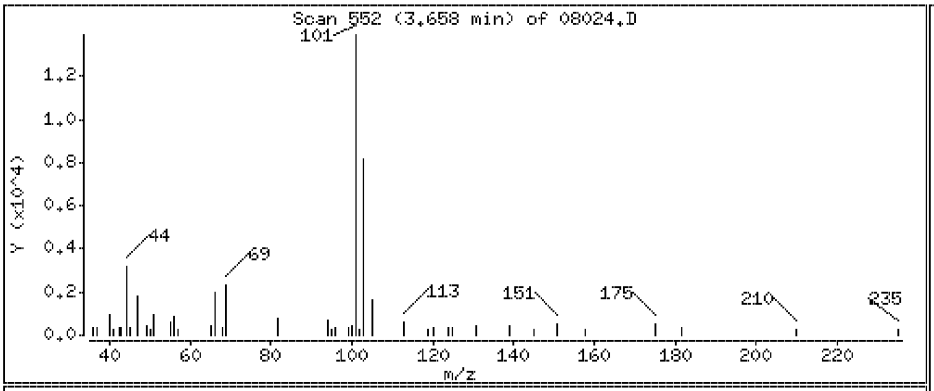
Operator: NCK

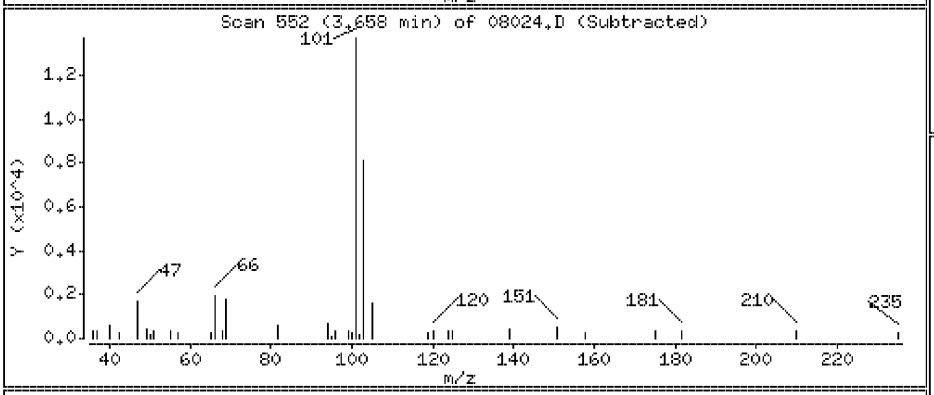
Column phase: J&W DB-5

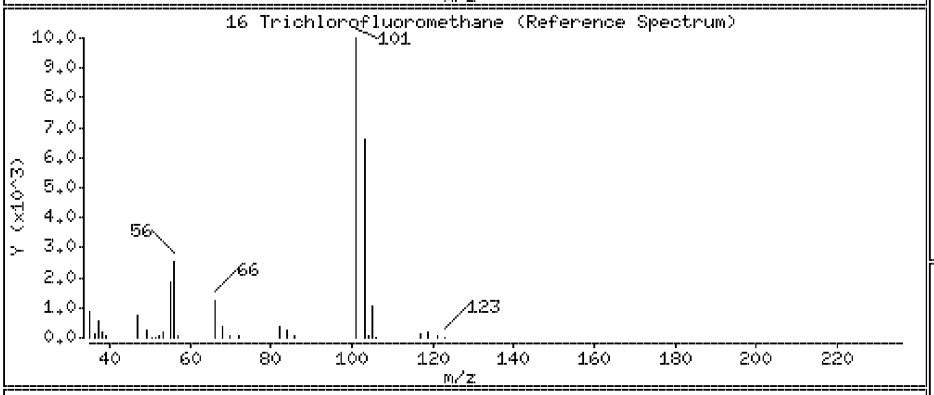
Column diameter: 0.32

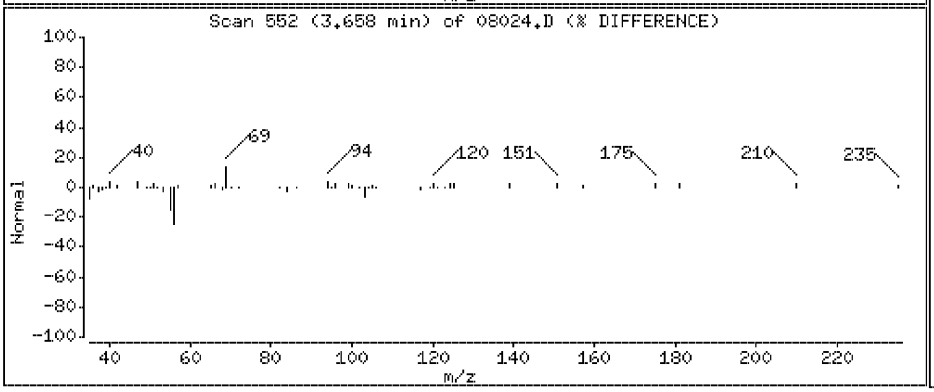
16 Trichlorofluoromethane

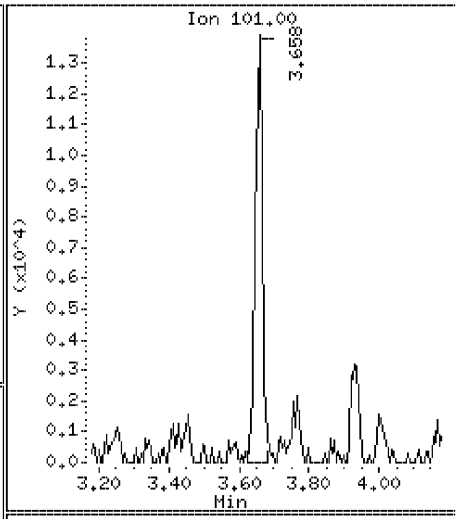
Concentration: 0.225 ppbv

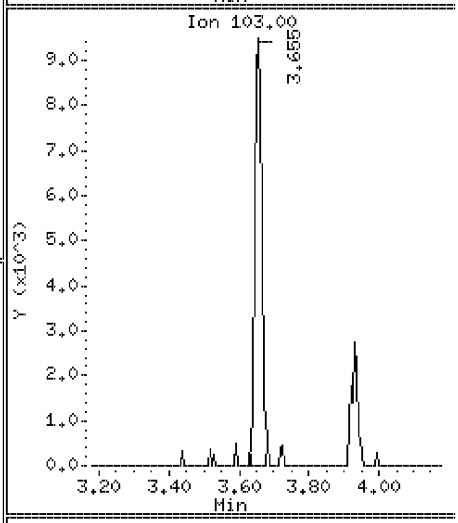


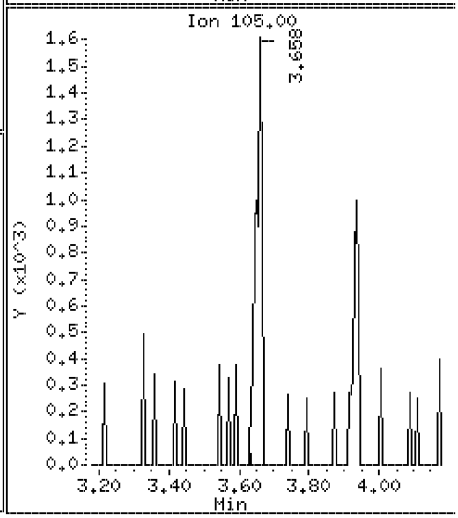












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

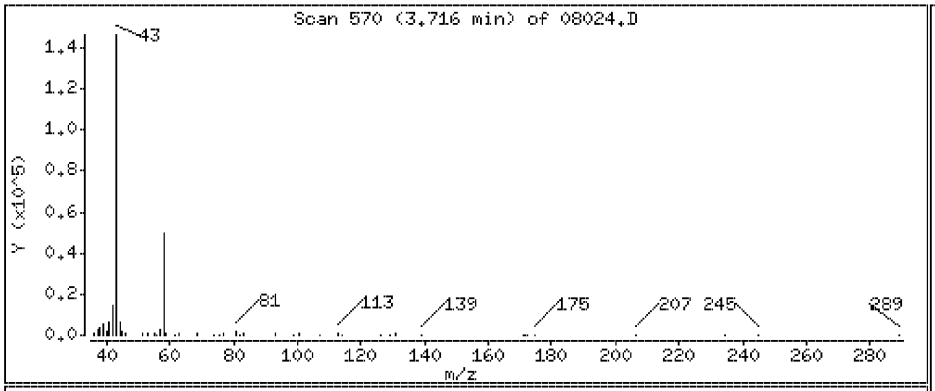
Operator: NCK

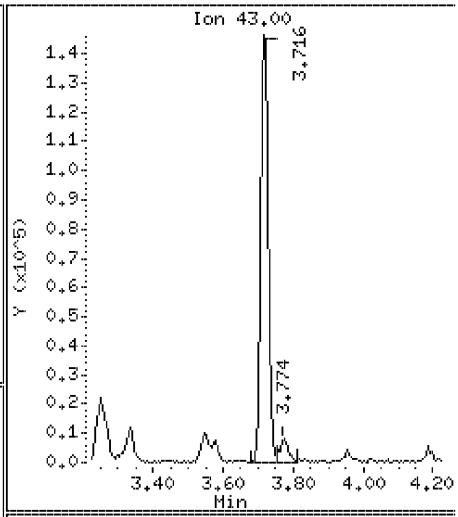
Column phase: J&W DB-5

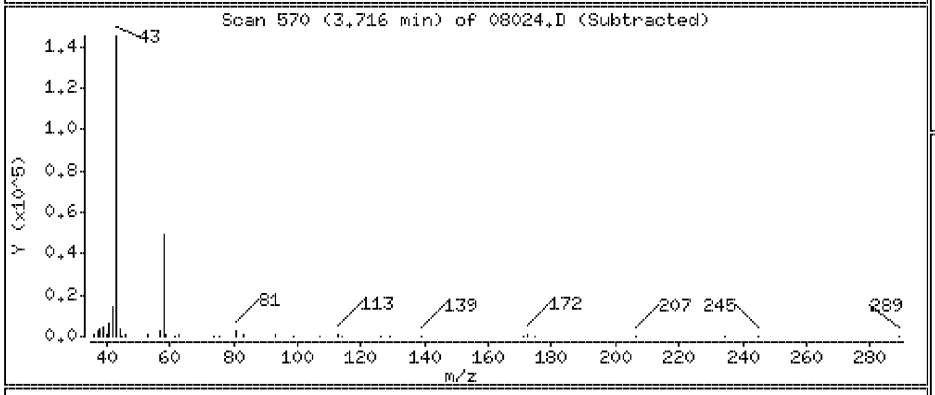
Column diameter: 0.32

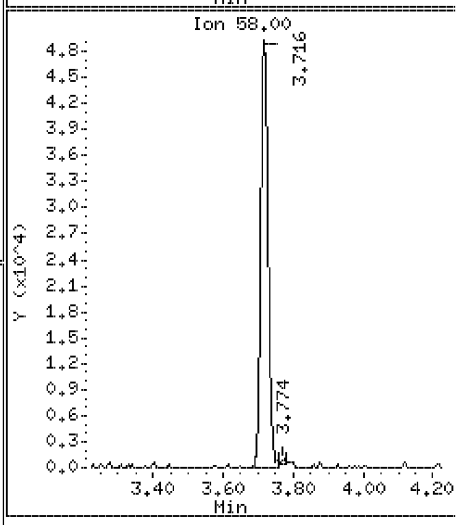
18 Acetone

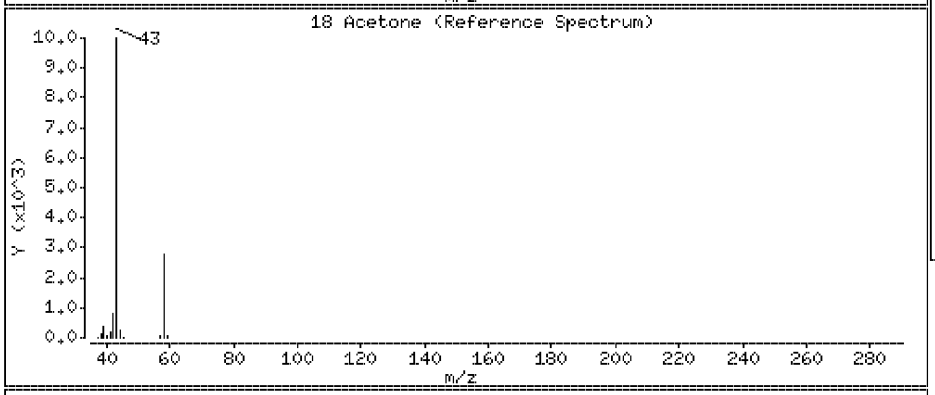
Concentration: 3.28 ppbv

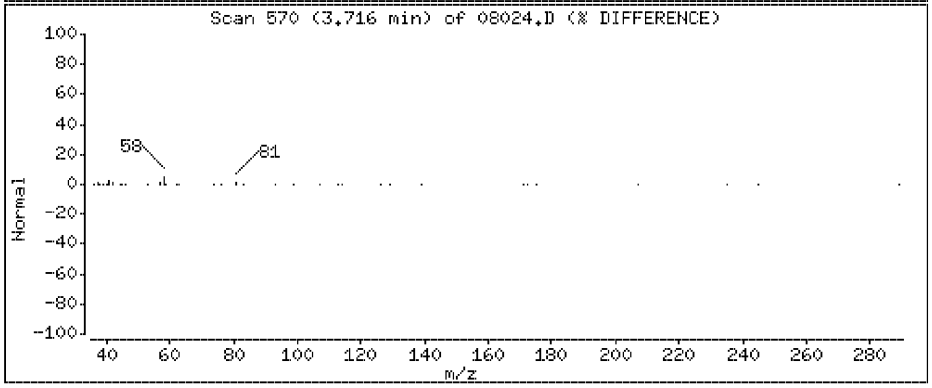












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

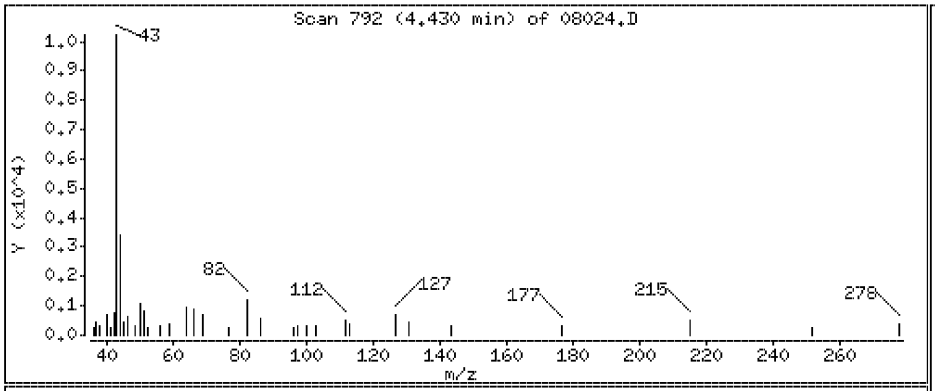
Operator: NCK

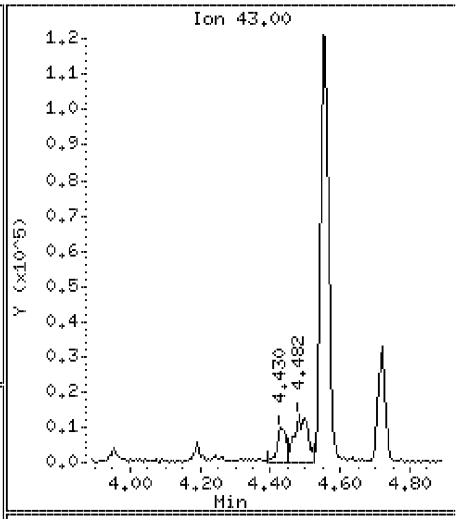
Column phase: J&W DB-5

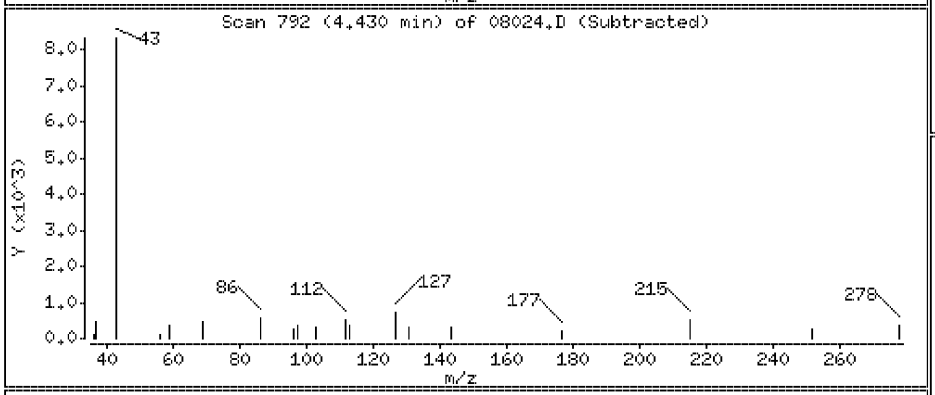
Column diameter: 0.32

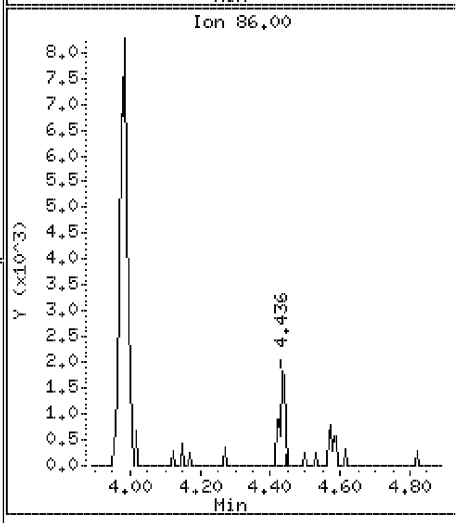
30 Vinyl Acetate

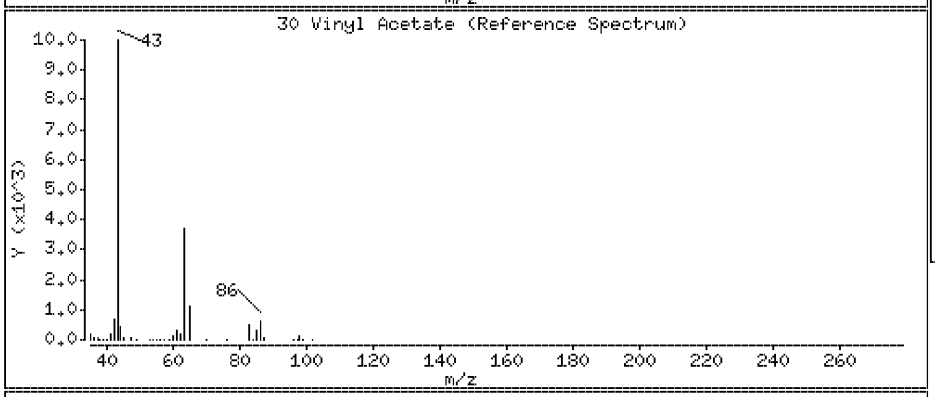
Concentration: 0.171 ppbv

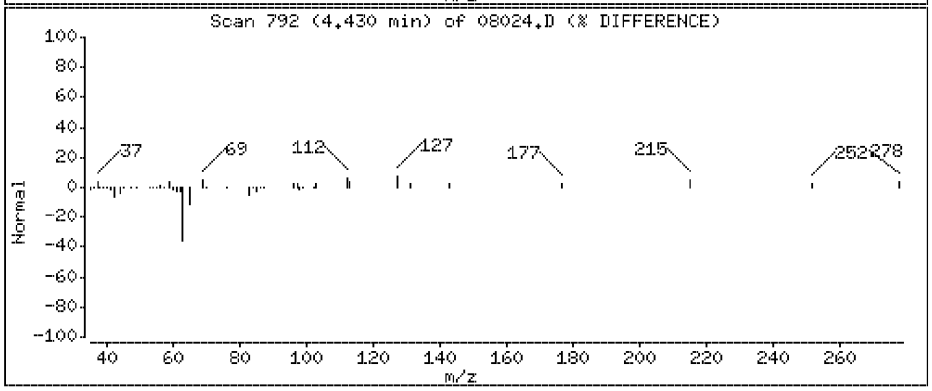












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

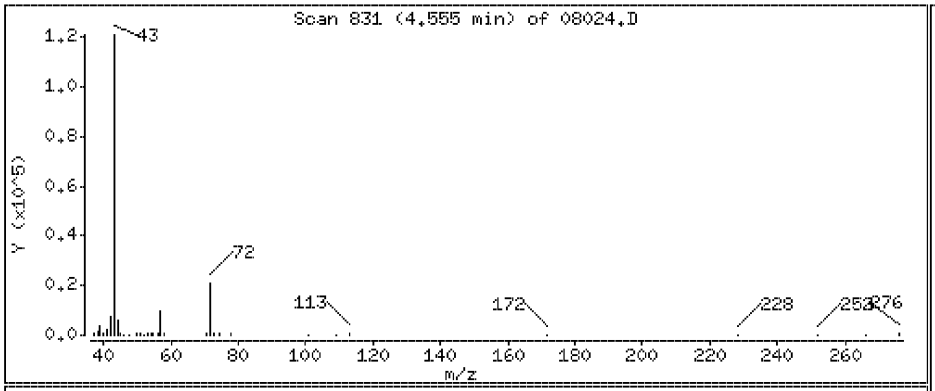
Operator: NCK

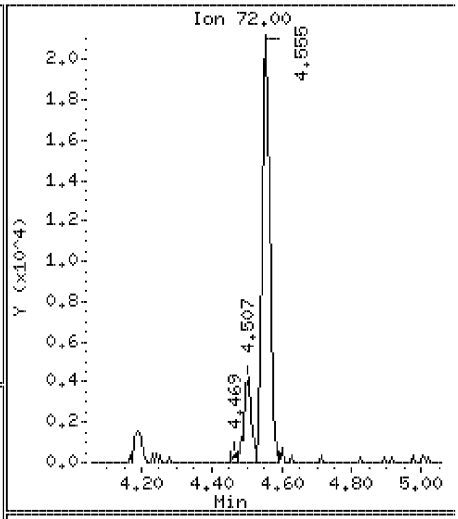
Column phase: J&W DB-5

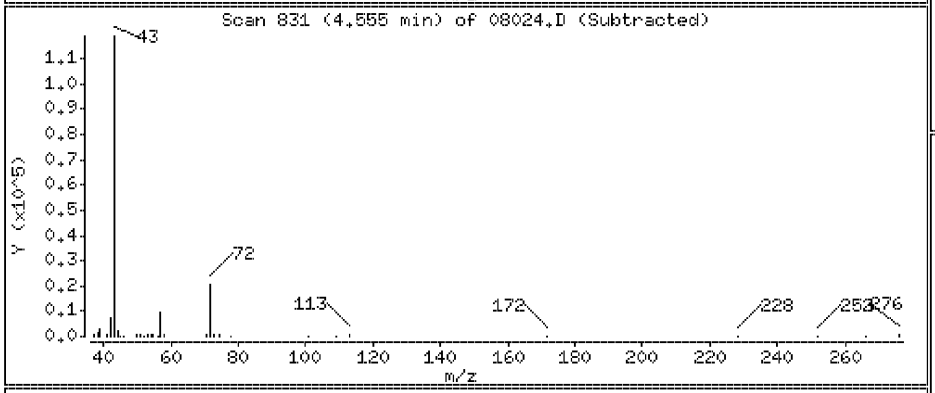
Column diameter: 0.32

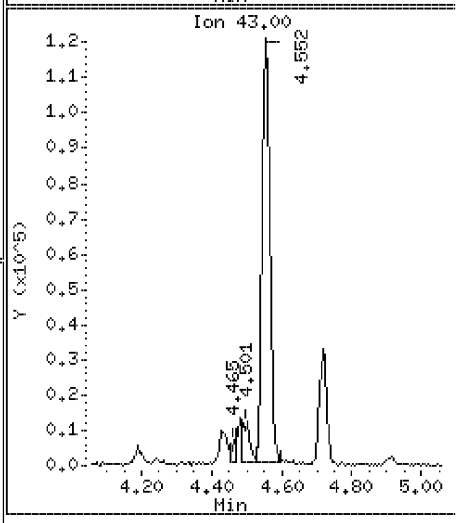
33 Methyl Ethyl Ketone

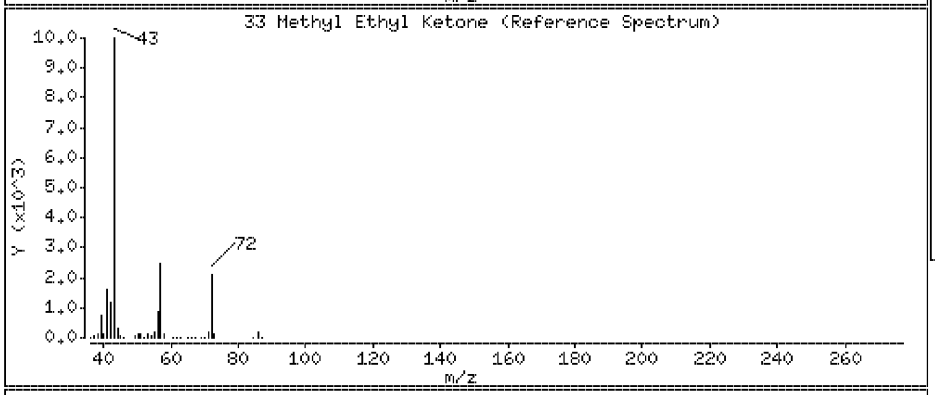
Concentration: 2.03 ppbv

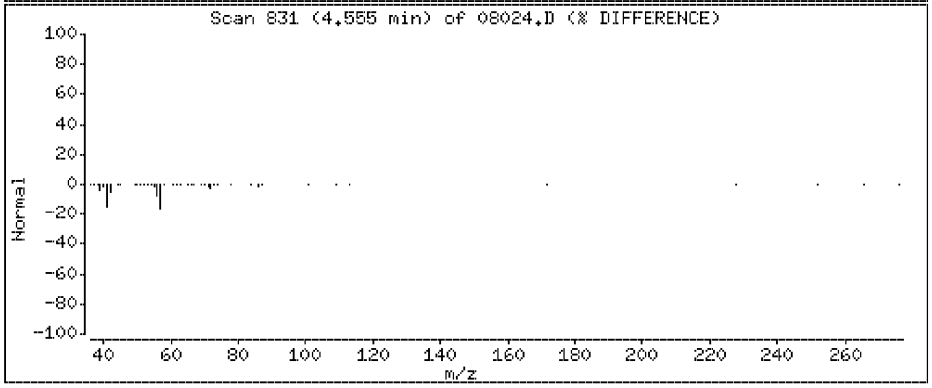












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

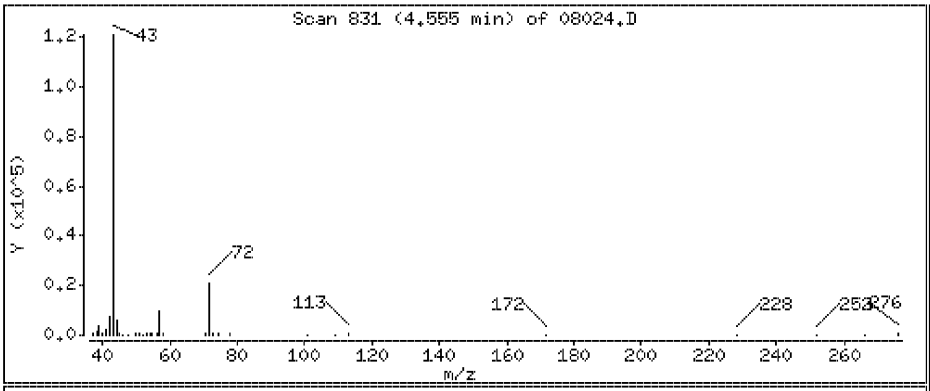
Operator: NCK

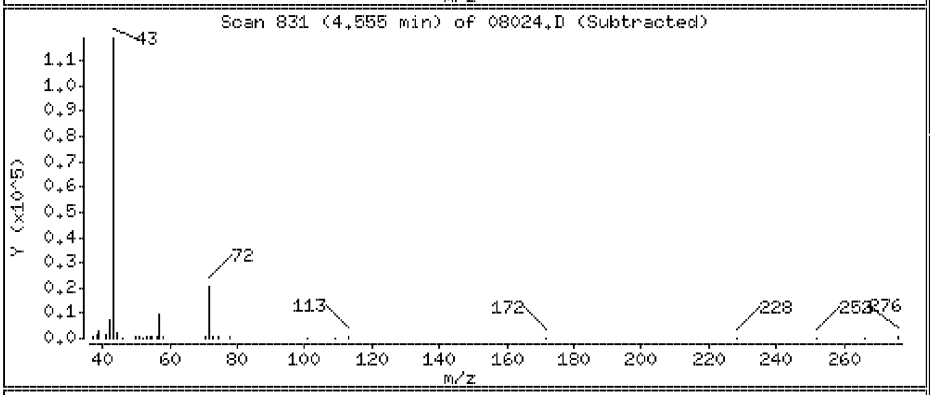
Column phase: J&W DB-5

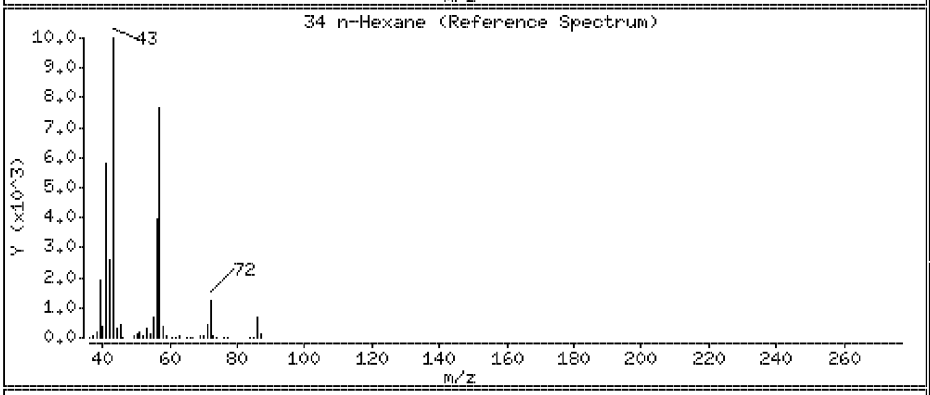
Column diameter: 0.32

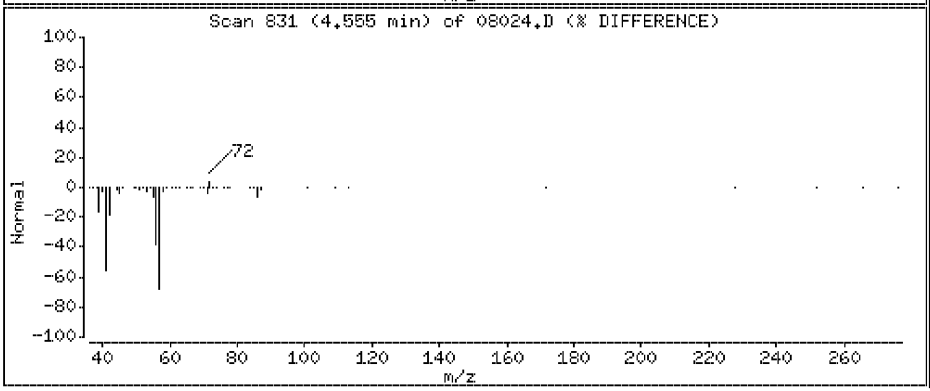
34 n-Hexane

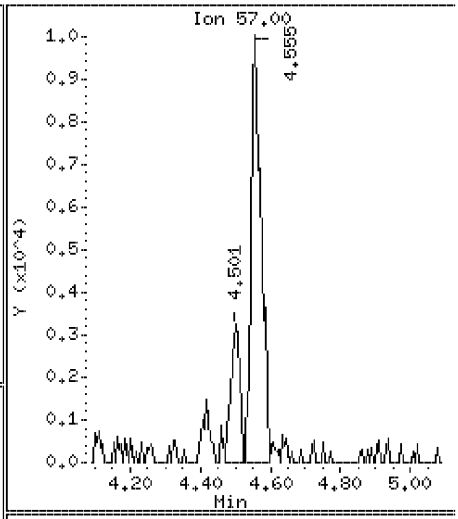
Concentration: 0.284 ppbv

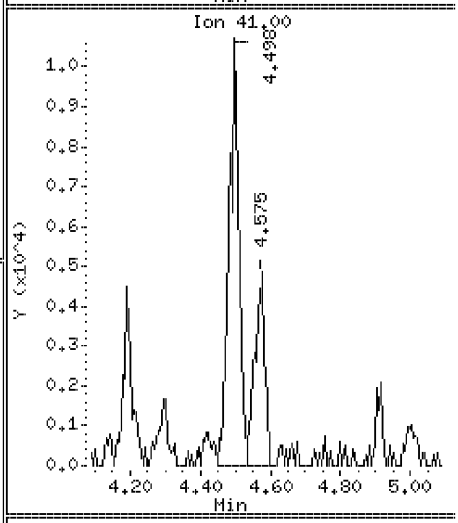


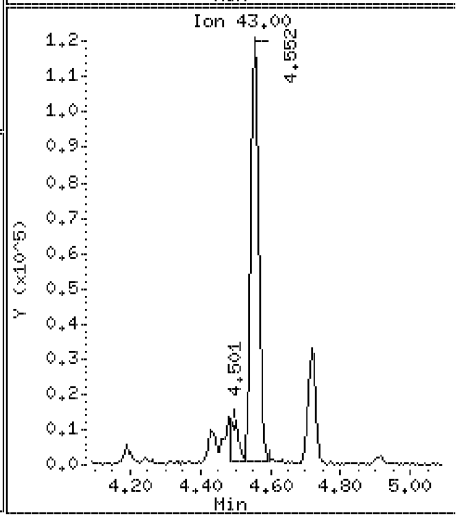












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

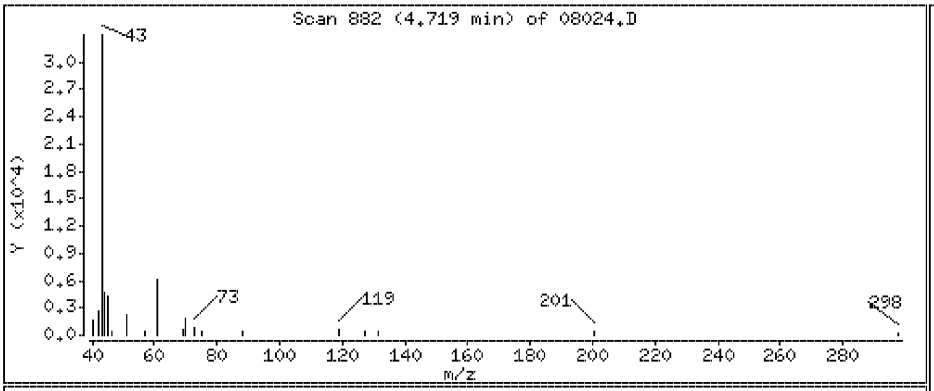
Operator: NCK

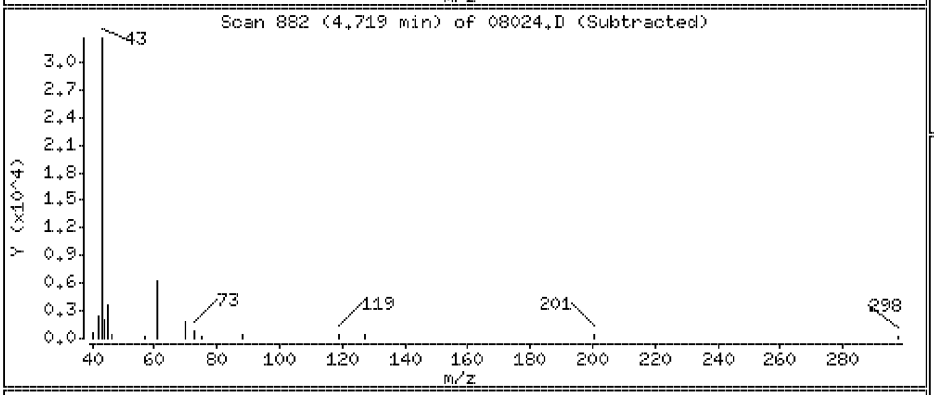
Column phase: J&W DB-5

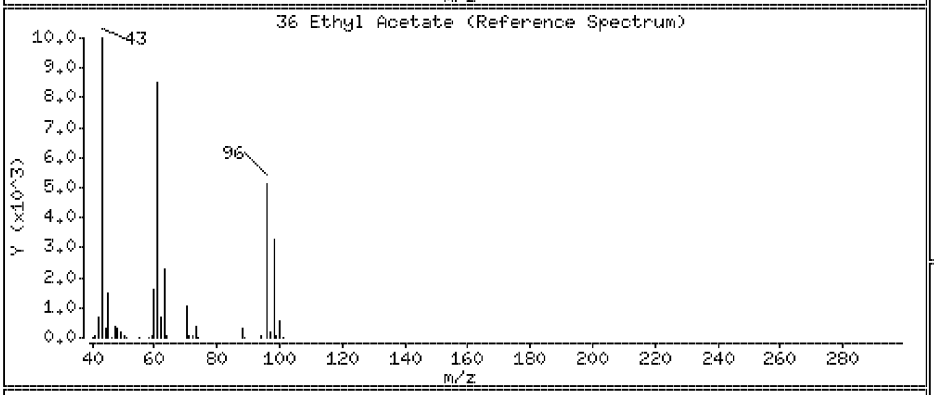
Column diameter: 0.32

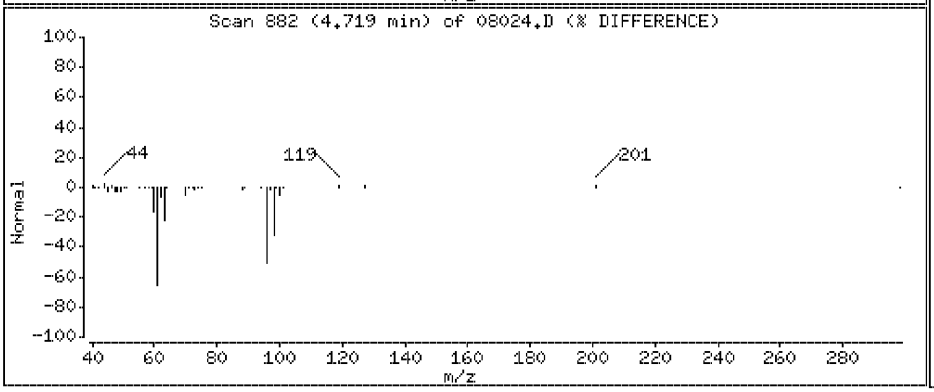
36 Ethyl Acetate

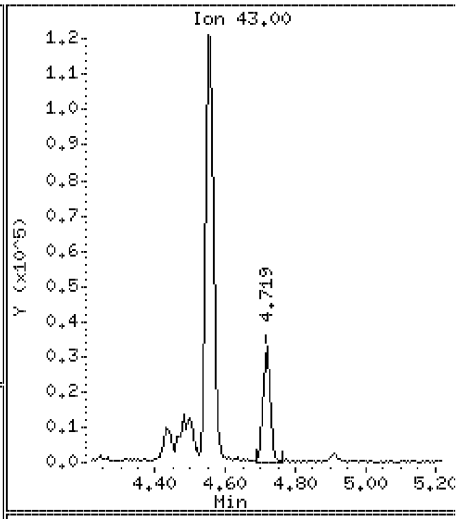
Concentration: 0.482 ppbv

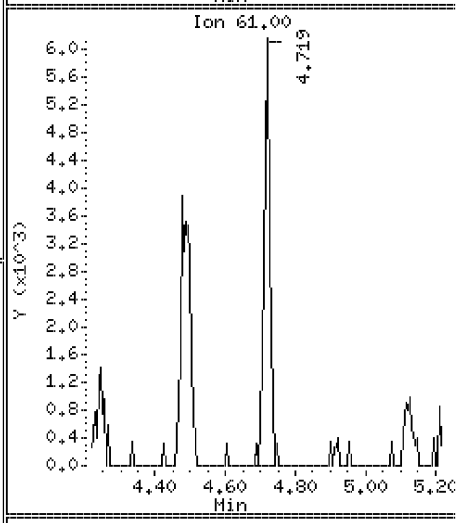


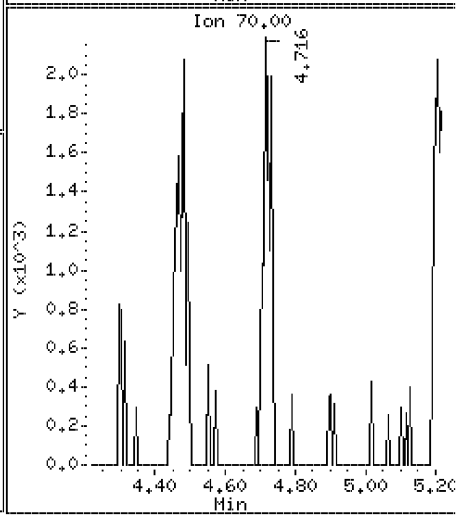












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

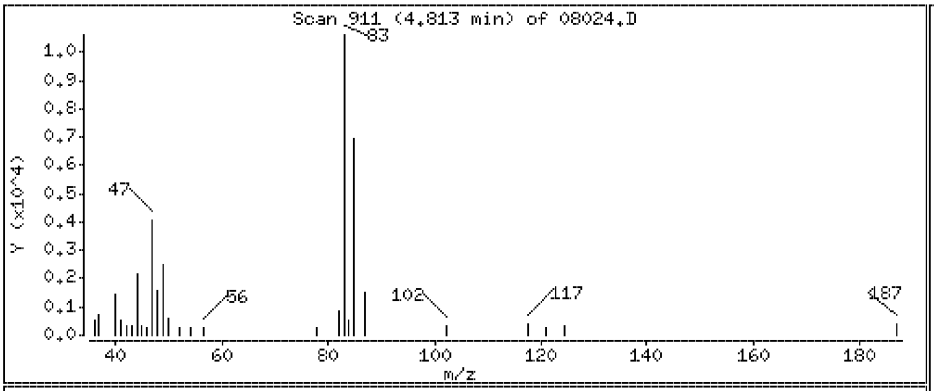
Operator: NCK

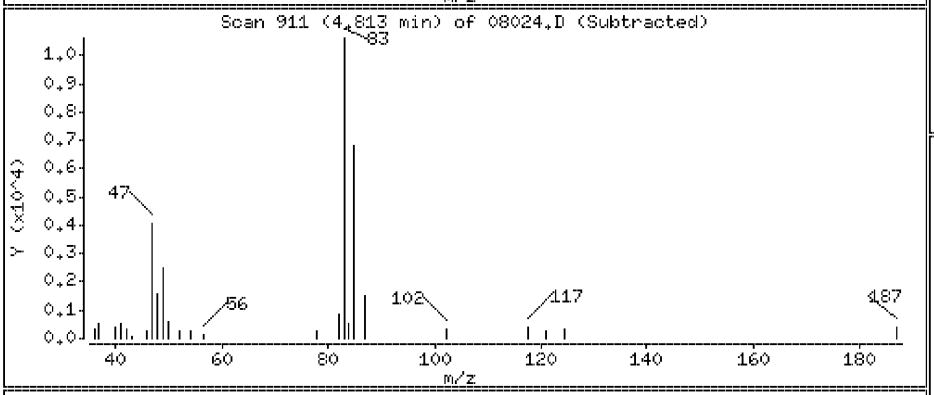
Column phase: J&W DB-5

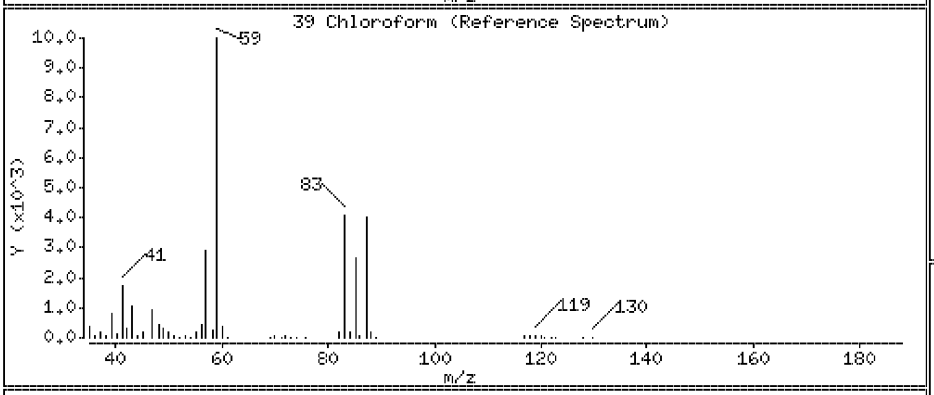
Column diameter: 0.32

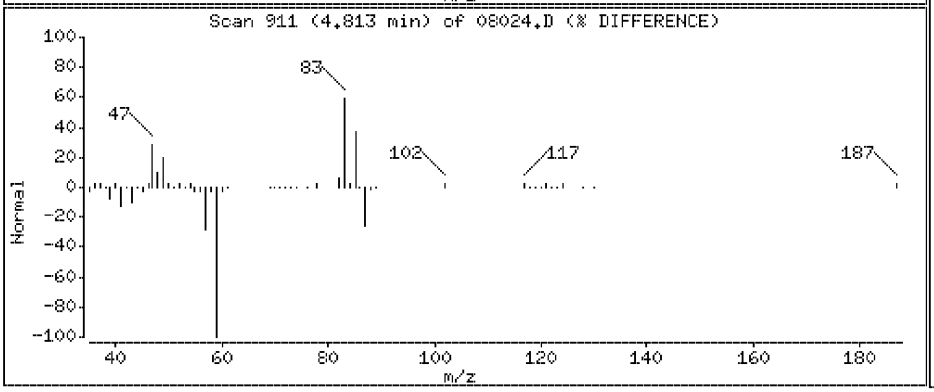
39 Chloroform

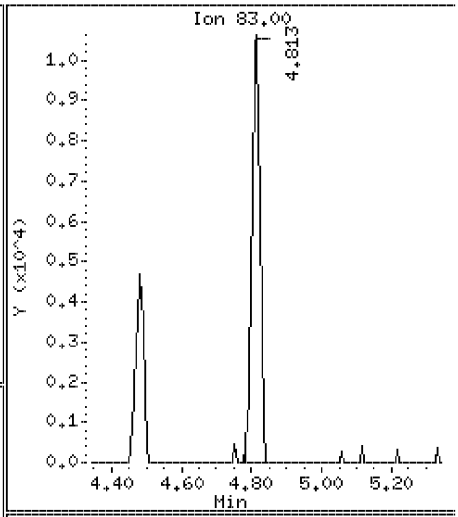
Concentration: 0.228 ppbv

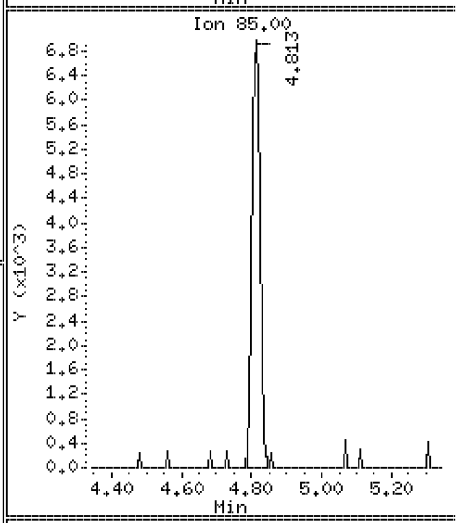


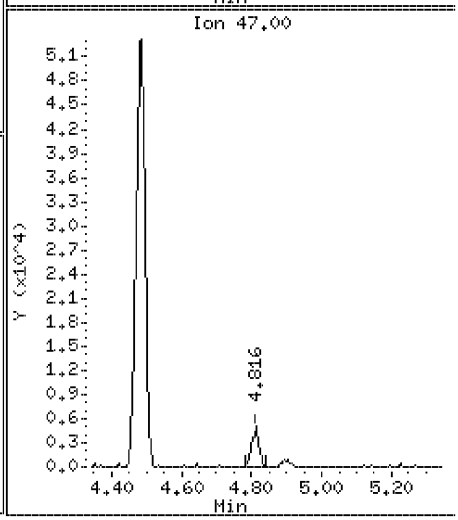












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

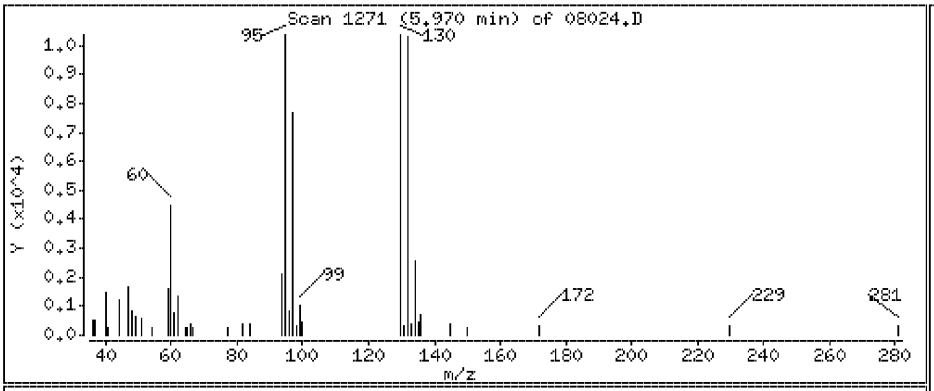
Operator: NCK

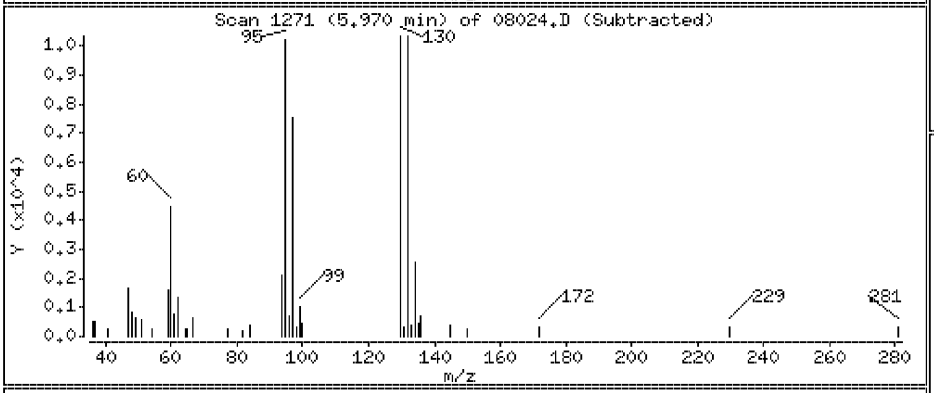
Column phase: J&W DB-5

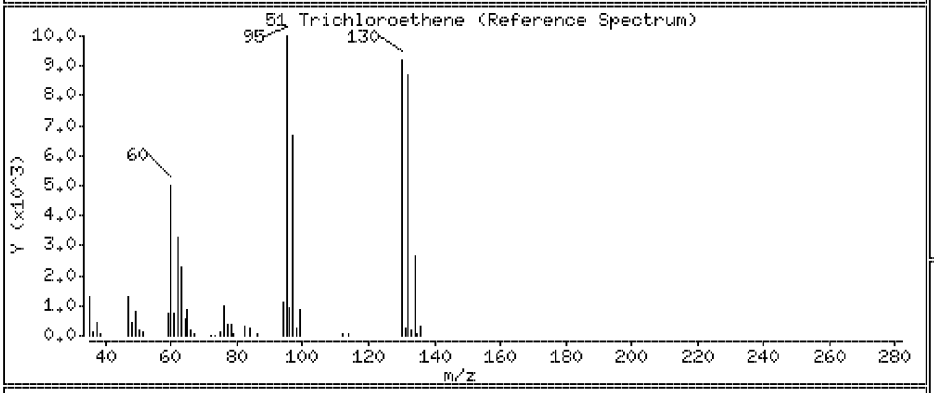
Column diameter: 0.32

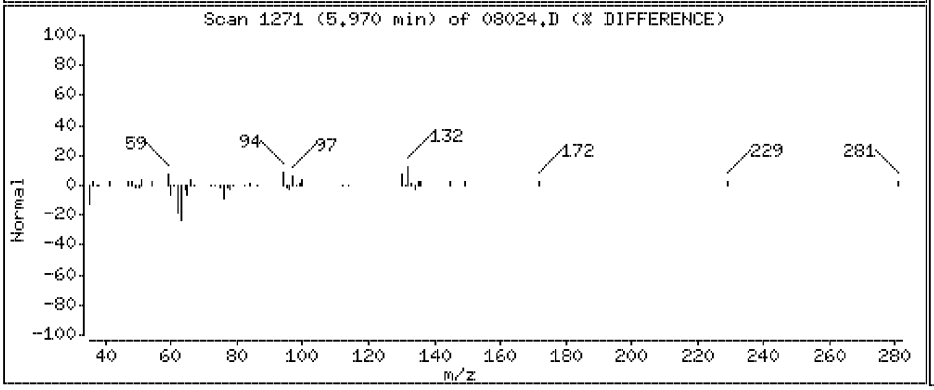
51 Trichloroethene

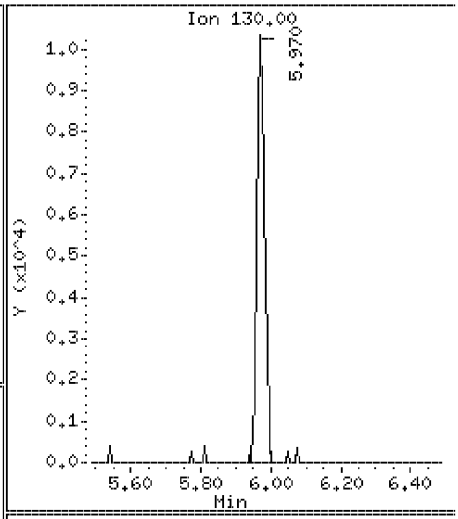
Concentration: 0.284 ppbv

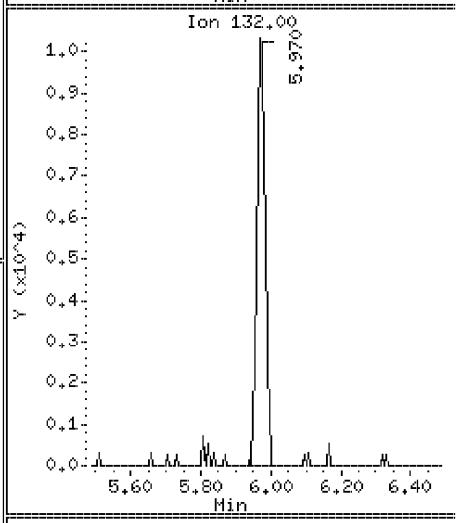


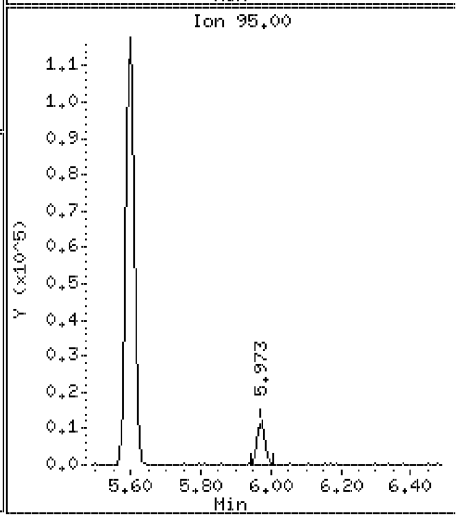












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

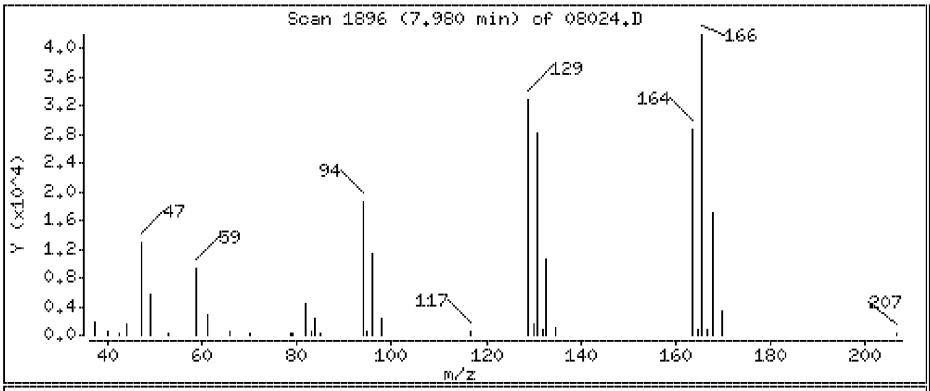
Operator: NCK

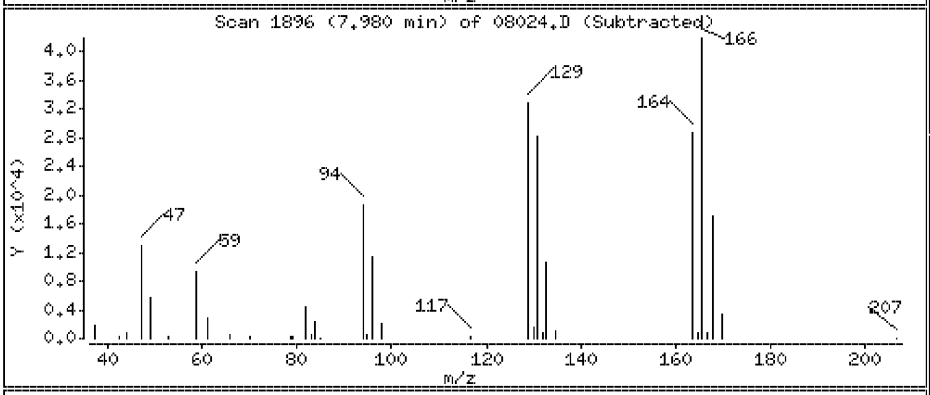
Column phase: J&W DB-5

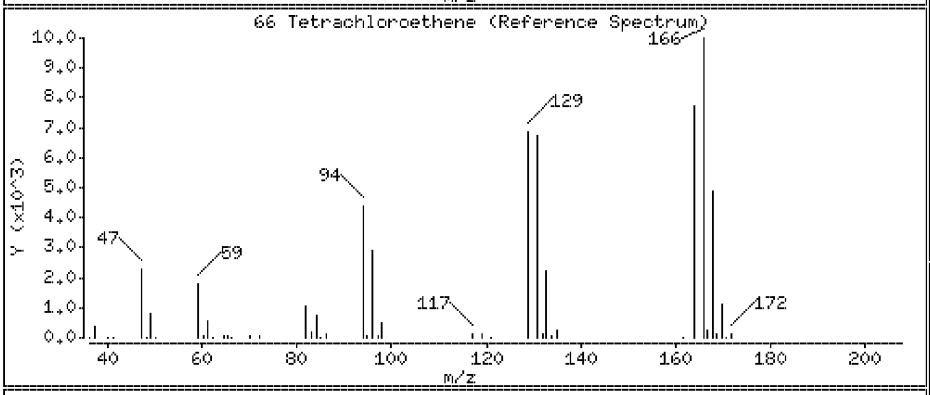
Column diameter: 0.32

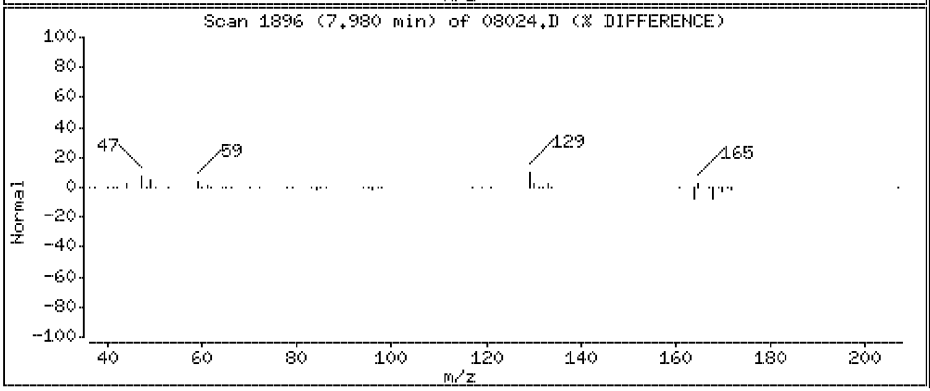
66 Tetrachloroethene

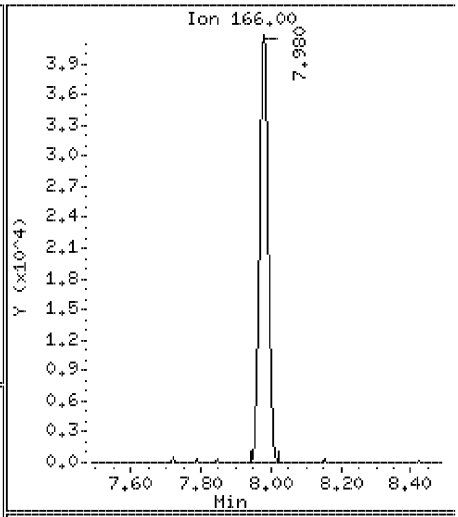
Concentration: 1.22 ppbv

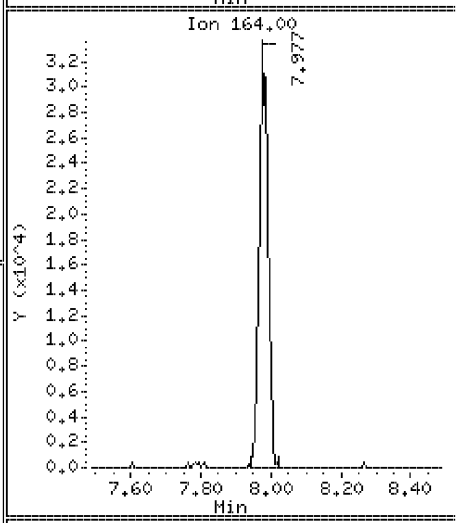


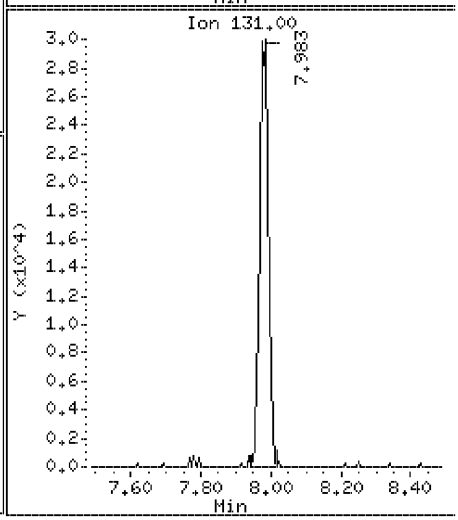












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

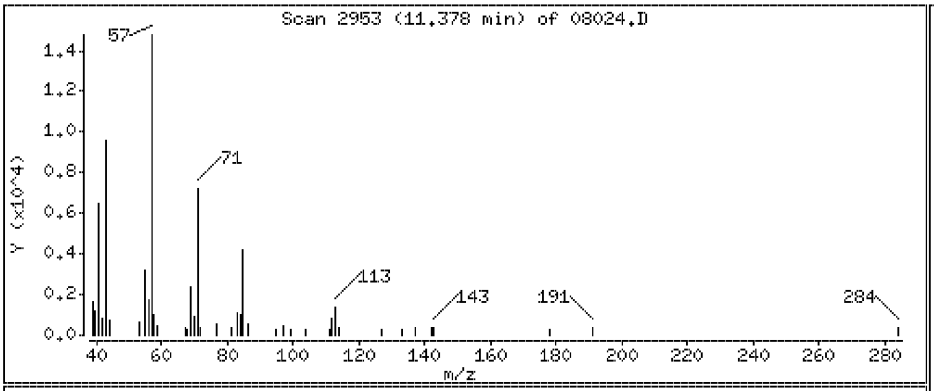
Operator: NCK

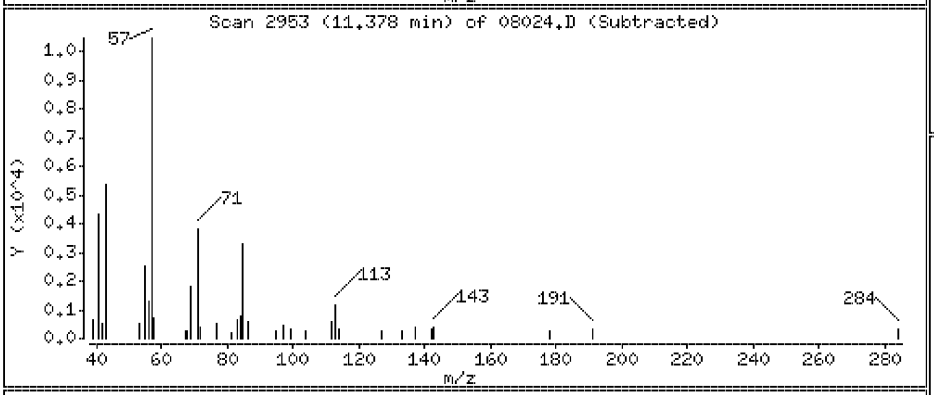
Column phase: J&W DB-5

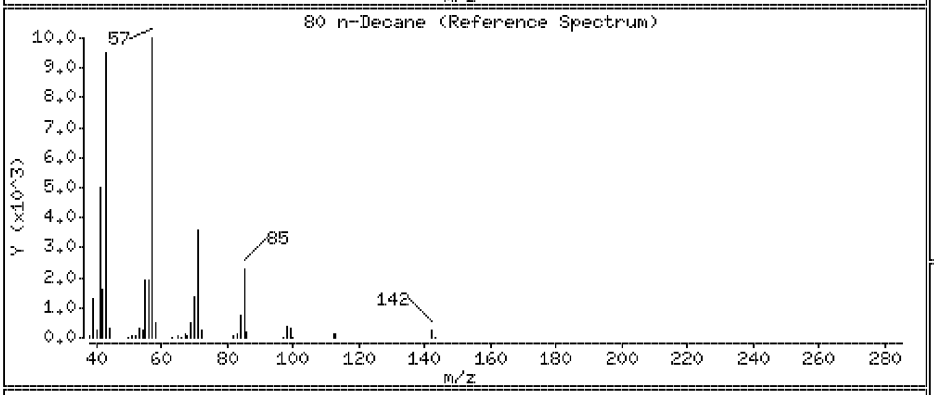
Column diameter: 0.32

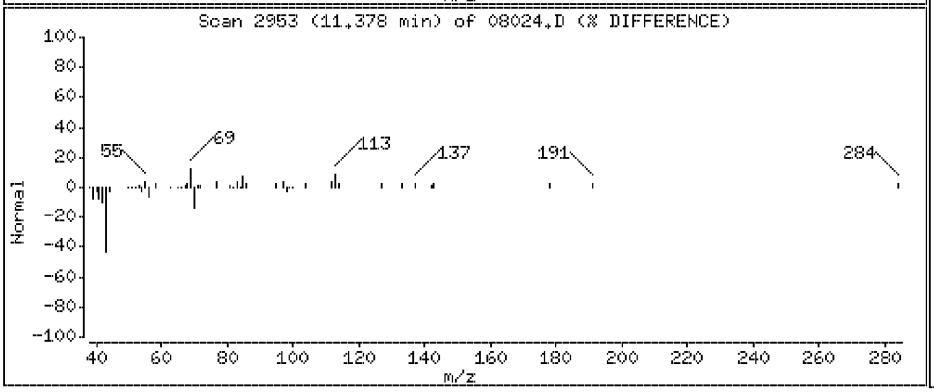
80 n-Decane

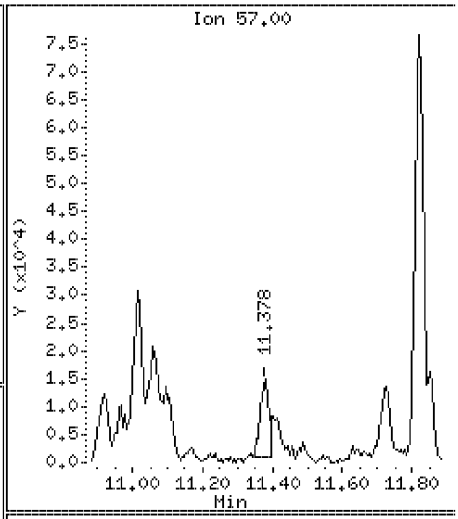
Concentration: 0.285 ppbv

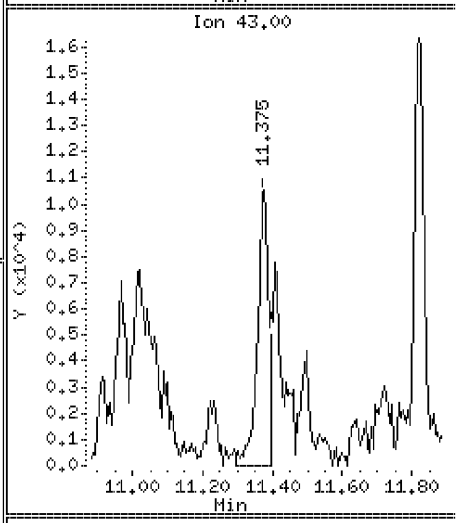


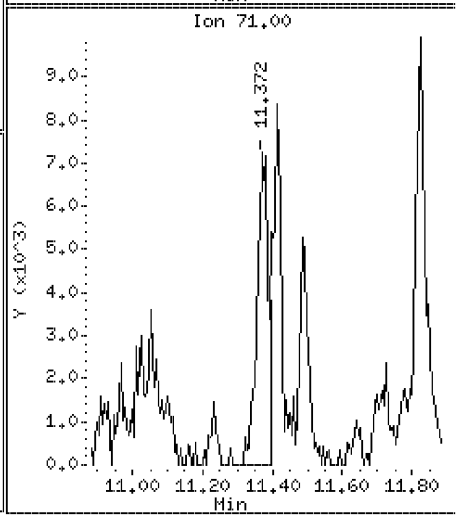












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

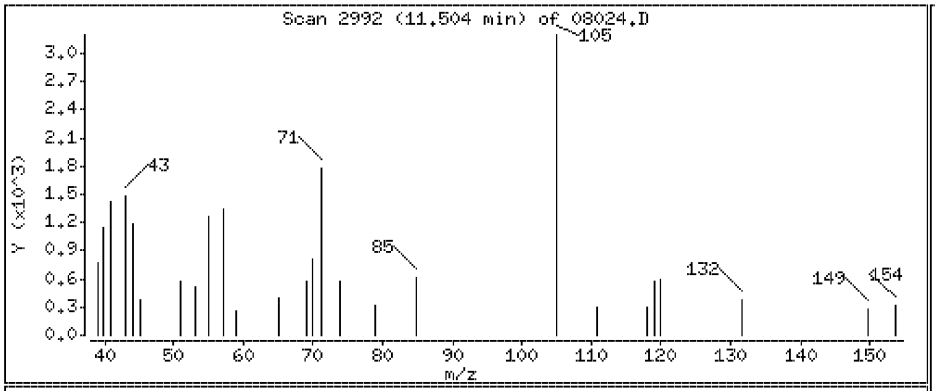
Operator: NCK

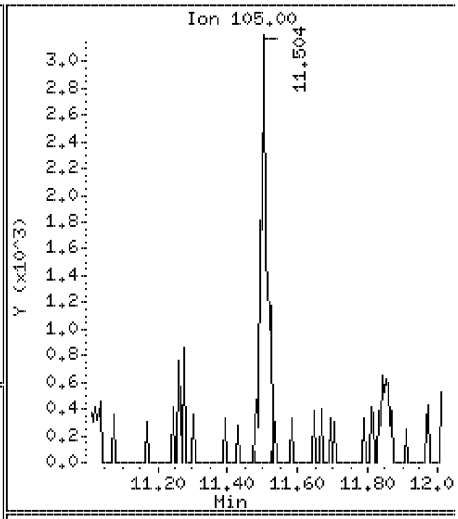
Column phase: J&W DB-5

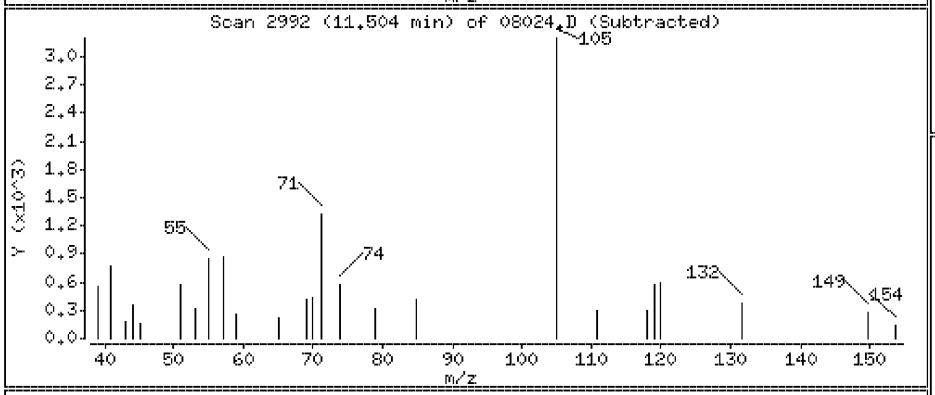
Column diameter: 0.32

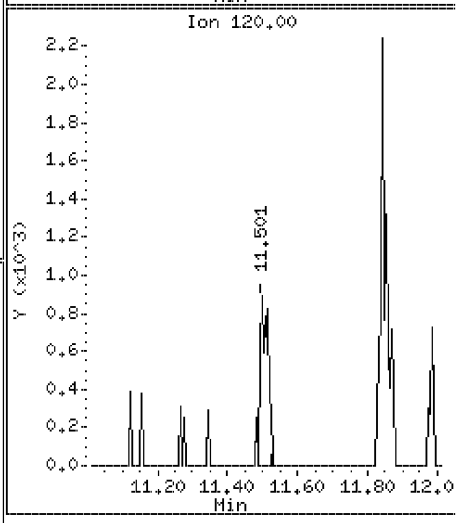
82 1,2,4-Trimethylbenzene

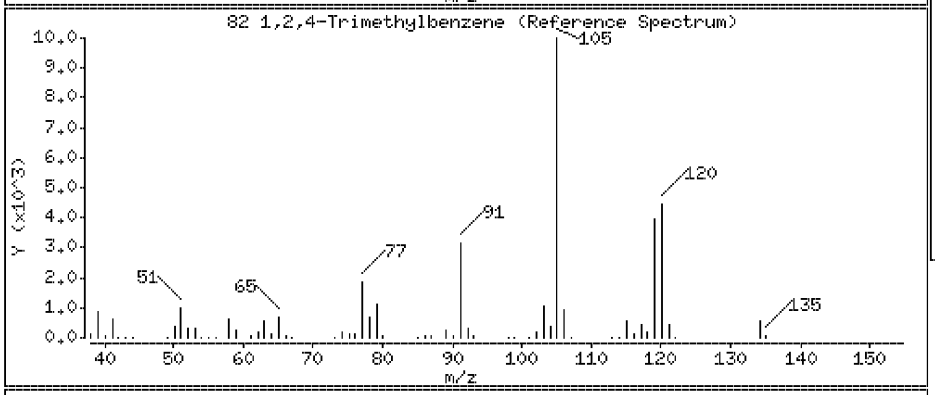
Concentration: 0.247 ppbv

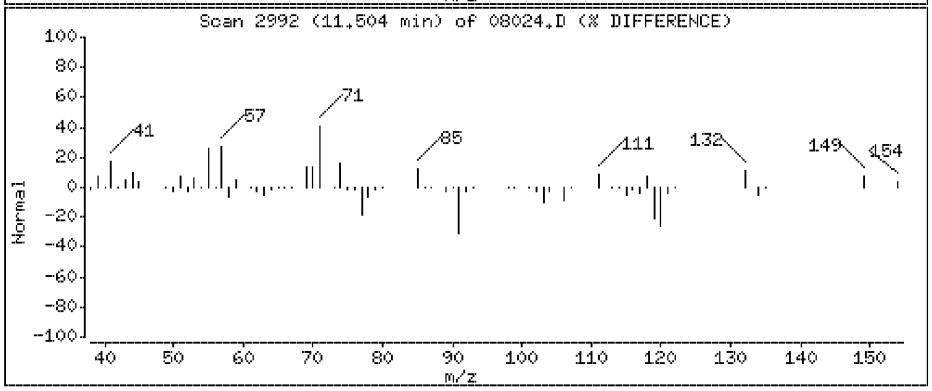












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08024.D

Date : 21-MAR-2017 20:28

Client ID:

Instrument: 10airB.i

Sample Info:

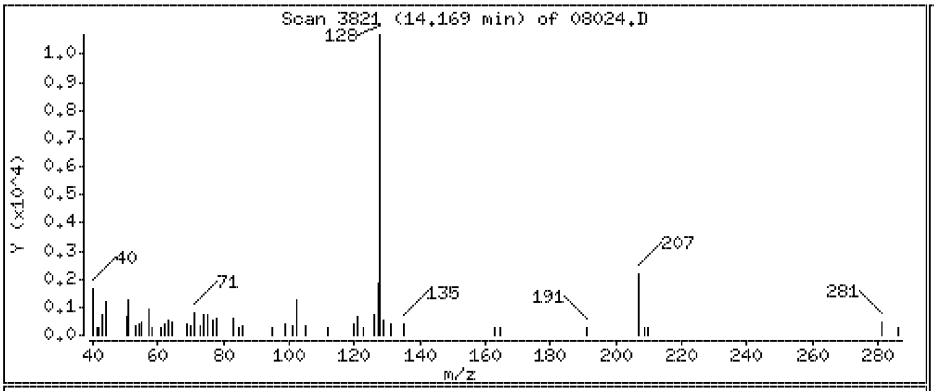
Operator: NCK

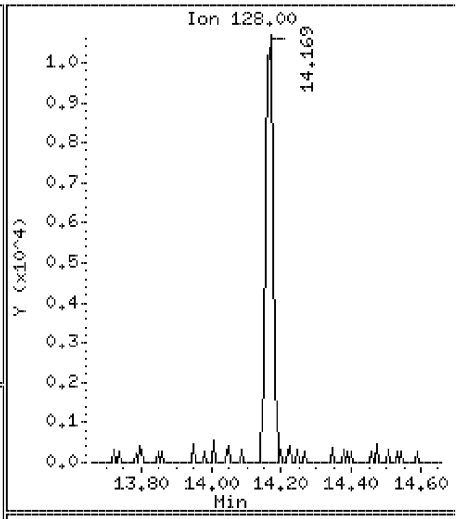
Column phase: J&W DB-5

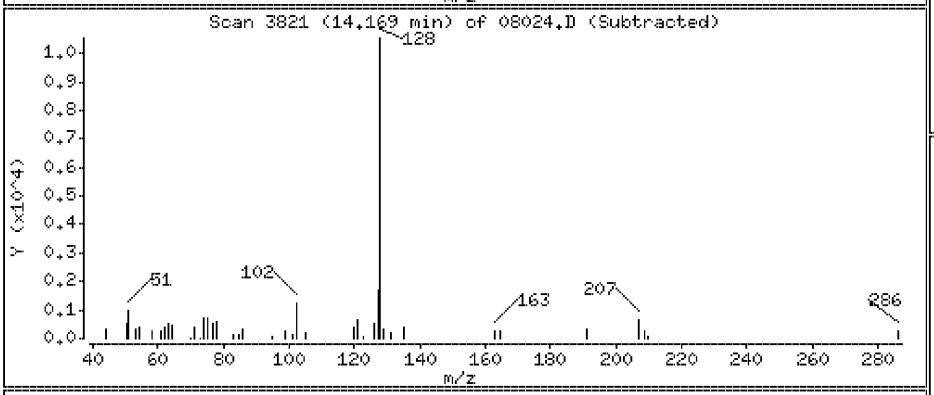
Column diameter: 0.32

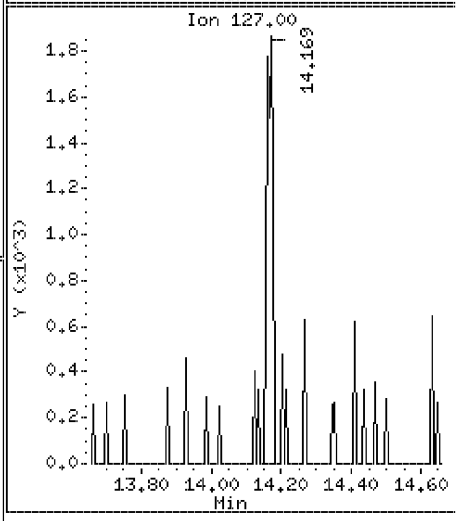
94 Naphthalene

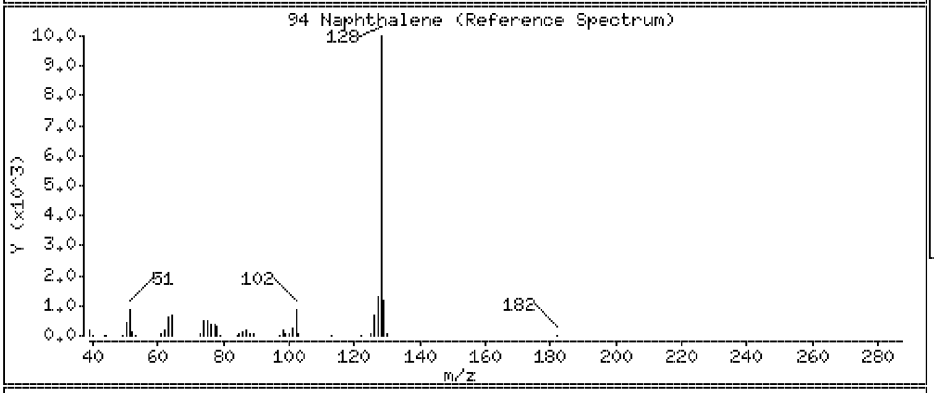
Concentration: 0.901 ppbv

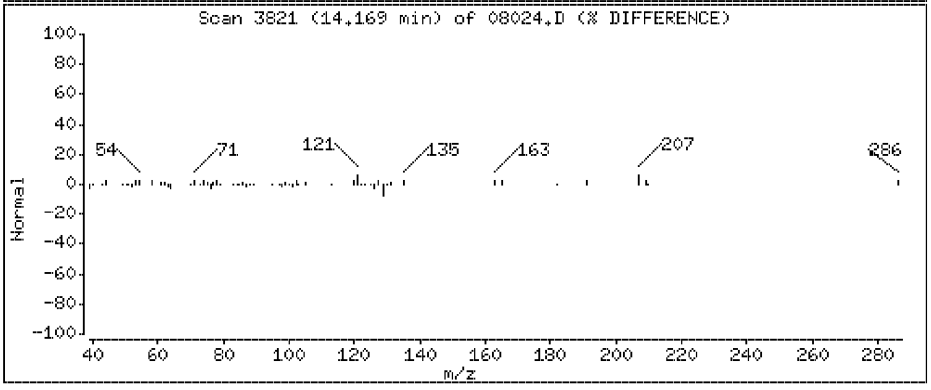






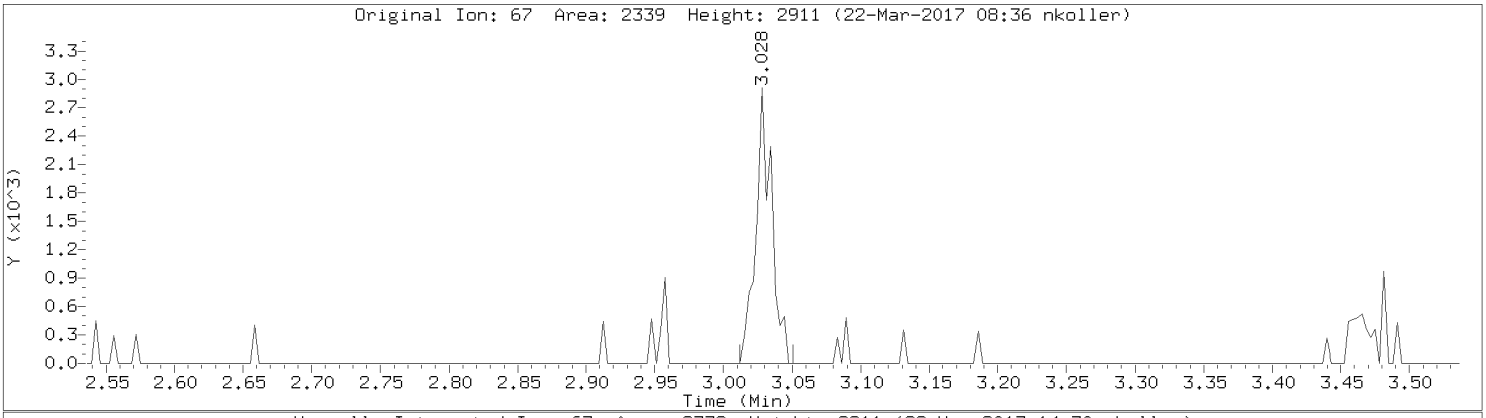


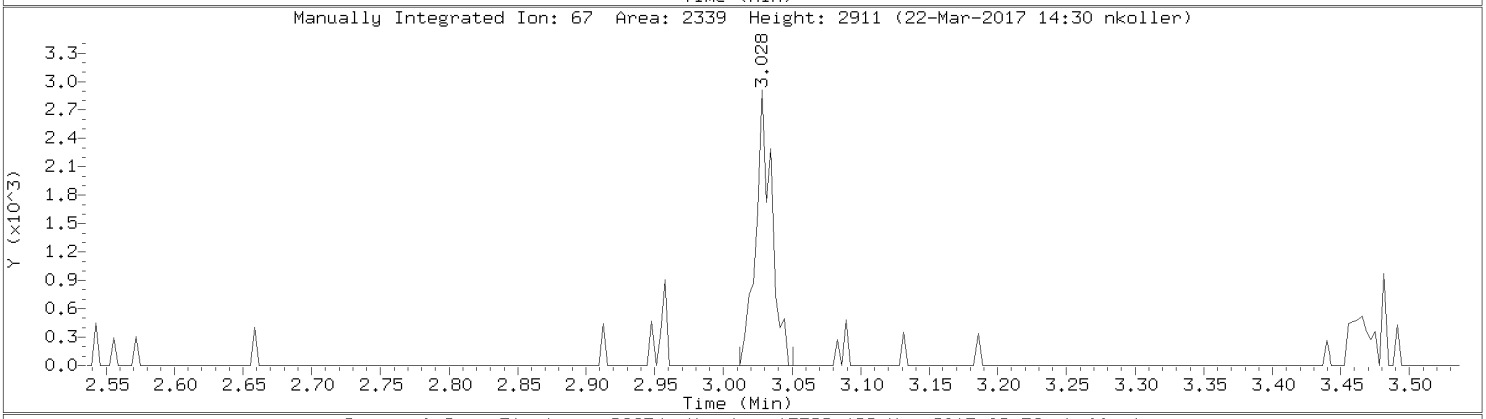


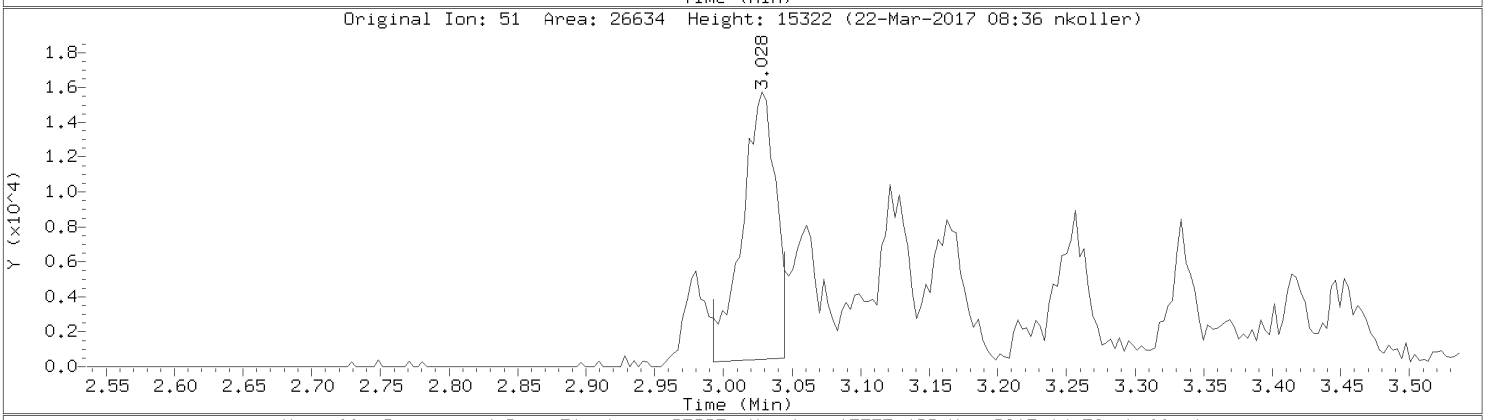


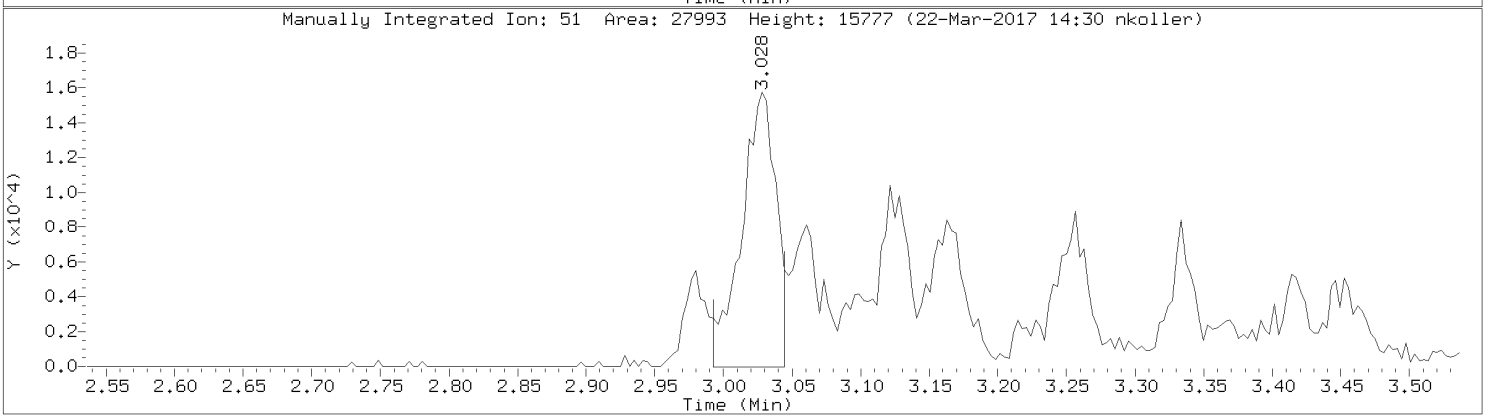
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08024.D
Injection Date: 21-MAR-2017 20:28
Instrument: 10airB.i
Lab Sample ID: 10381035014

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

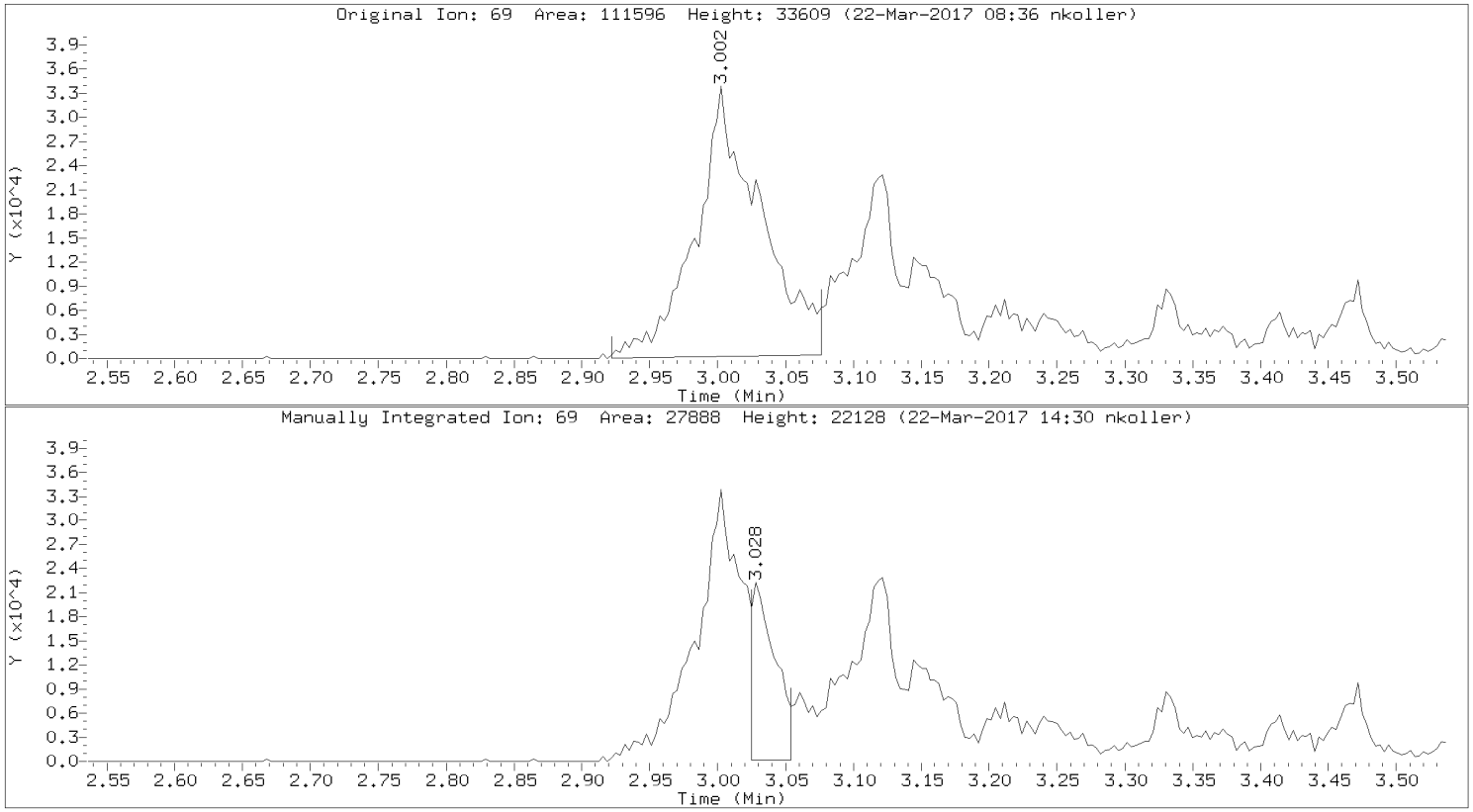








Data File: \\192.168.10.12\chem\10airB.i\032117.b/08024.D
Injection Date: 21-MAR-2017 20:28
Instrument: 10airB.i
Lab Sample ID: 10381035014



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_19.5_20170302 **Lab ID: 10381035015** Collected: 03/02/17 12:49 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**19.5**	ug/m3	3.9	1.3	1.61		03/21/17 21:31	67-64-1	
Allyl chloride	**<0.37**	ug/m3	2.6	0.37	1.61		03/21/17 21:31	107-05-1	
Benzene	**0.27J**	ug/m3	0.52	0.20	1.61		03/21/17 21:31	71-43-2	
Bromodichloromethane	**<0.31**	ug/m3	2.2	0.31	1.61		03/21/17 21:31	75-27-4	
Bromoform	**<1.5**	ug/m3	8.5	1.5	1.61		03/21/17 21:31	75-25-2	
Bromomethane	**<0.50**	ug/m3	1.3	0.50	1.61		03/21/17 21:31	74-83-9	
1,3-Butadiene	**<0.28**	ug/m3	0.72	0.28	1.61		03/21/17 21:31	106-99-0	
2-Butanone (MEK)	**13.3**	ug/m3	4.8	0.37	1.61		03/21/17 21:31	78-93-3	
Carbon disulfide	**2.4**	ug/m3	1.0	0.16	1.61		03/21/17 21:31	75-15-0	
Carbon tetrachloride	**<0.31**	ug/m3	1.0	0.31	1.61		03/21/17 21:31	56-23-5	
Chlorobenzene	**<0.22**	ug/m3	1.5	0.22	1.61		03/21/17 21:31	108-90-7	
Chlorodifluoromethane	**<0.44**	ug/m3	1.2	0.44	1.61		03/21/17 21:31	75-45-6	
Chloroethane	**<0.31**	ug/m3	0.87	0.31	1.61		03/21/17 21:31	75-00-3	
Chloroform	**4.2**	ug/m3	0.80	0.31	1.61		03/21/17 21:31	67-66-3	
Chloromethane	**<0.17**	ug/m3	0.68	0.17	1.61		03/21/17 21:31	74-87-3	
Chloropentafluoroethane	**<5.2**	ug/m3	5.2	5.2	1.61		03/21/17 21:31	76-15-3	
Cyclohexane	**<0.51**	ug/m3	1.1	0.51	1.61		03/21/17 21:31	110-82-7	
1,2-Dibromo-3-chloropropane	**<7.9**	ug/m3	7.9	7.9	1.61		03/21/17 21:31	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.8	1.4	1.61		03/21/17 21:31	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/m3	2.5	1.2	1.61		03/21/17 21:31	106-93-4	
1,2-Dichlorobenzene	**<0.82**	ug/m3	2.0	0.82	1.61		03/21/17 21:31	95-50-1	
1,3-Dichlorobenzene	**<0.85**	ug/m3	2.0	0.85	1.61		03/21/17 21:31	541-73-1	
1,4-Dichlorobenzene	**<0.80**	ug/m3	2.0	0.80	1.61		03/21/17 21:31	106-46-7	
Dichlorodifluoromethane	**<0.77**	ug/m3	4.0	0.77	1.61		03/21/17 21:31	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/m3	1.3	0.25	1.61		03/21/17 21:31	75-34-3	
1,2-Dichloroethane	**<0.33**	ug/m3	0.66	0.33	1.61		03/21/17 21:31	107-06-2	
1,1-Dichloroethene	**<0.38**	ug/m3	1.3	0.38	1.61		03/21/17 21:31	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.3	0.40	1.61		03/21/17 21:31	156-59-2	
trans-1,2-Dichloroethene	**<0.62**	ug/m3	1.3	0.62	1.61		03/21/17 21:31	156-60-5	
1,2-Dichloropropane	**<0.43**	ug/m3	1.5	0.43	1.61		03/21/17 21:31	78-87-5	
cis-1,3-Dichloropropene	**<0.59**	ug/m3	1.5	0.59	1.61		03/21/17 21:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.42**	ug/m3	1.5	0.42	1.61		03/21/17 21:31	10061-02-6	
Dichlorotetrafluoroethane	**<0.50**	ug/m3	2.3	0.50	1.61		03/21/17 21:31	76-14-2	
Freon 123	**<5.1**	ug/m3	5.1	5.1	1.61		03/21/17 21:31	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.57**	ug/m3	5.9	0.57	1.61		03/21/17 21:31	123-91-1	
Ethylbenzene	**<0.68**	ug/m3	1.4	0.68	1.61		03/21/17 21:31	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.6	0.30	1.61		03/21/17 21:31	622-96-8	
Hexachloro-1,3-butadiene	**<1.0**	ug/m3	3.5	1.0	1.61		03/21/17 21:31	87-68-3	
n-Hexane	**5.7**	ug/m3	1.2	0.57	1.61		03/21/17 21:31	110-54-3	
2-Hexanone	**<0.66**	ug/m3	6.7	0.66	1.61		03/21/17 21:31	591-78-6	
Isopropylbenzene (Cumene)	**<0.22**	ug/m3	4.0	0.22	1.61		03/21/17 21:31	98-82-8	
Methyl acetate	**<2.5**	ug/m3	2.5	2.5	1.61		03/21/17 21:31	79-20-9	
Methylcyclohexane	**<0.39**	ug/m3	1.3	0.39	1.61		03/21/17 21:31	108-87-2	
Methylene Chloride	**37.6**	ug/m3	5.7	0.87	1.61		03/21/17 21:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.35**	ug/m3	6.7	0.35	1.61		03/21/17 21:31	108-10-1	
Methyl-tert-butyl ether	**<0.49**	ug/m3	5.9	0.49	1.61		03/21/17 21:31	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D
Report Date: 22-Mar-2017 14:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08026.D
Lab Smp Id: 10381035015
Inj Date : 21-MAR-2017 21:31
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 26
Dil Factor: 1.61000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.610	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.546	3.545	(0.634)	49329	2.12339	3.42	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.568	3.603	(0.638)	178546	2.66409	4.29	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.648	3.677	(0.652)	22880	0.18221	0.293	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.713	3.722	(0.663)	503255	5.01751	8.08	(M)
19	Isopropyl Alcohol	45	3.771	3.764	(0.674)	143184	1.26487	2.04	(M)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.931	3.951	(0.702)	6409	0.06699	0.108	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D
Report Date: 22-Mar-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.980	4.005	(0.711)	545192	6.61175	10.6	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	4.092	4.127	(0.731)	49030	0.48006	0.773	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.388	(0.792)	23137	0.15350	0.247	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.491	(0.800)	2073477	9.74895	9.75	
	33 Methyl Ethyl Ketone	72	4.552	4.555	(0.813)	63706	2.75430	4.43(Q)	
	34 n-Hexane	57	4.574	4.587	(0.817)	105354	0.99013	1.59(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 Ethyl Acetate	43	4.713	4.716	(0.842)	132823	0.88728	1.43(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.860)	59024	0.52185	0.840	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.446	5.465	(0.973)	9178	0.05135	0.0827	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	6205373	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.873	5.889	(1.049)	26092	0.20709	0.333	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.970	5.986	(1.067)	76110	0.91078	1.47	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.070	7.076	(1.263)	5570831	9.74897	9.75	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.144	7.153	(1.276)	172525	0.83117	1.34	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.571	7.581	(0.876)	19351	0.12896	0.208(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	165959	1.79202	2.89	
*	67 Chlorobenzene - d5	117	8.639	8.642	(1.000)	4082658	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.066	9.082	(1.049)	18906	0.25311	0.408(Q)	
	71 n-Nonane	43	9.468	9.468	(1.096)	23788	0.18914	0.305	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.500	9.507	(1.100)	24747	0.27786	0.447	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D
Report Date: 22-Mar-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.899	10.915	(1.262)	3003	0.17006	0.274(QMH)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.378	11.381	(2.033)	141706	1.13984	1.84(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.507	11.510	(1.332)	5162	0.15437	0.249	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	1937193	9.83266	9.83	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	1778	0.15621	0.251(QH)	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						(D)
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.156	(1.641)	3900	0.45649	0.735	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D
Report Date: 22-Mar-2017 14:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08026.D
Lab Smp Id: 10381035015
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

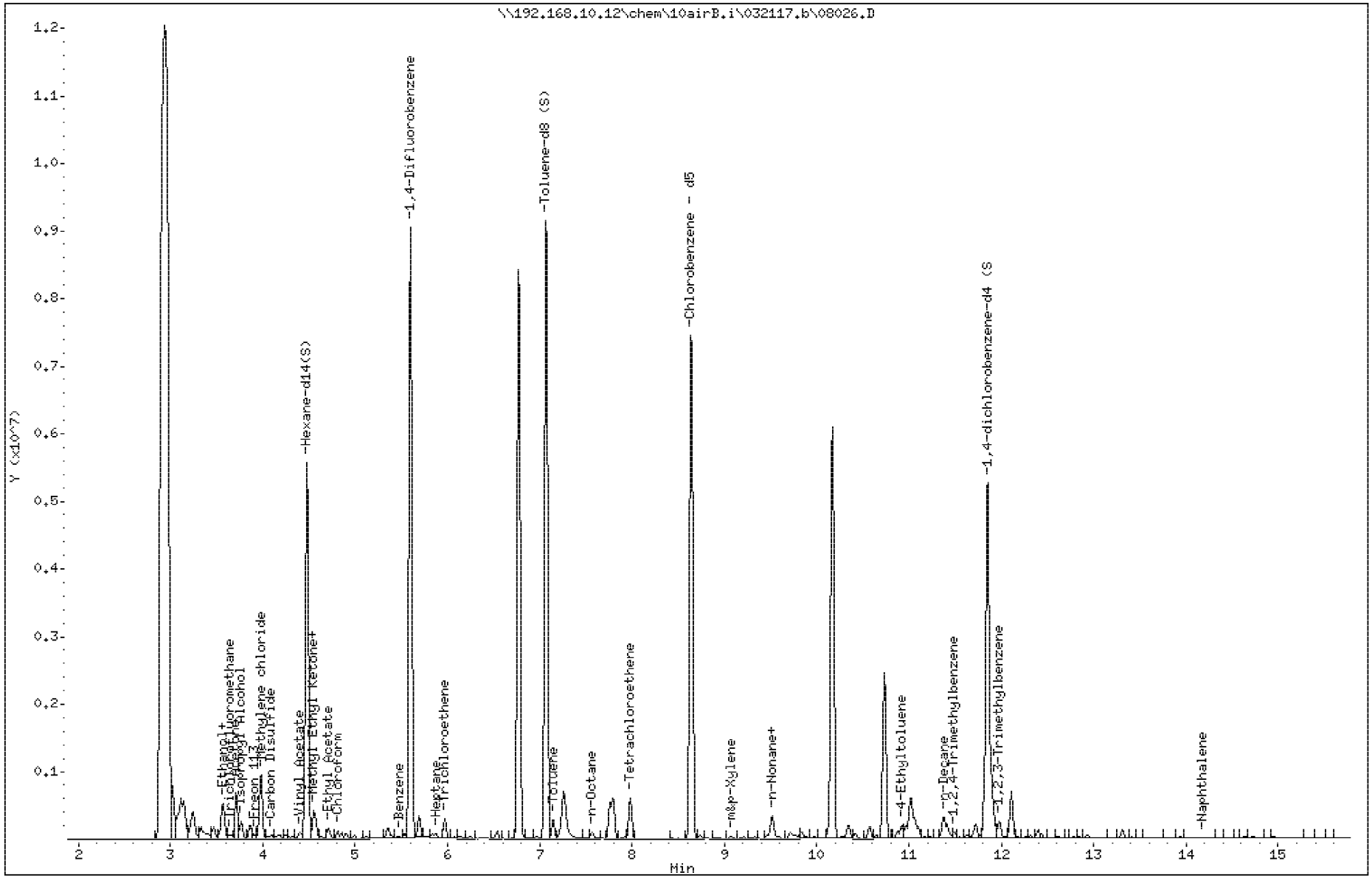
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6205373	-18.79
67 Chlorobenzene - d	5205948	3123569	7288327	4082658	-21.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.28
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D
Date : 21-MAR-2017 21:31
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

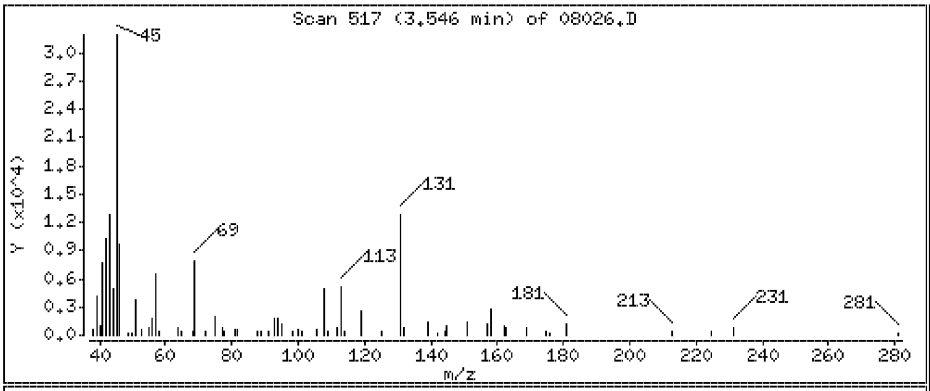
Operator: NCK

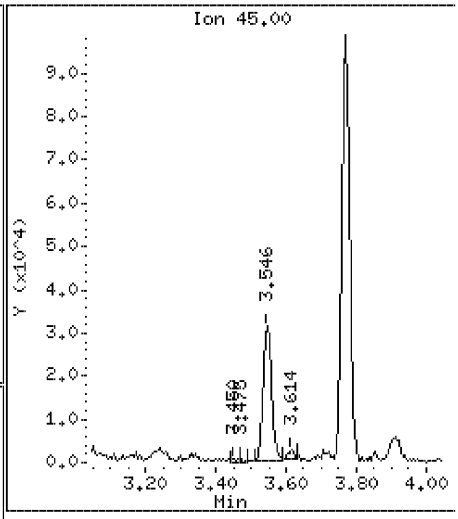
Column phase: J&W DB-5

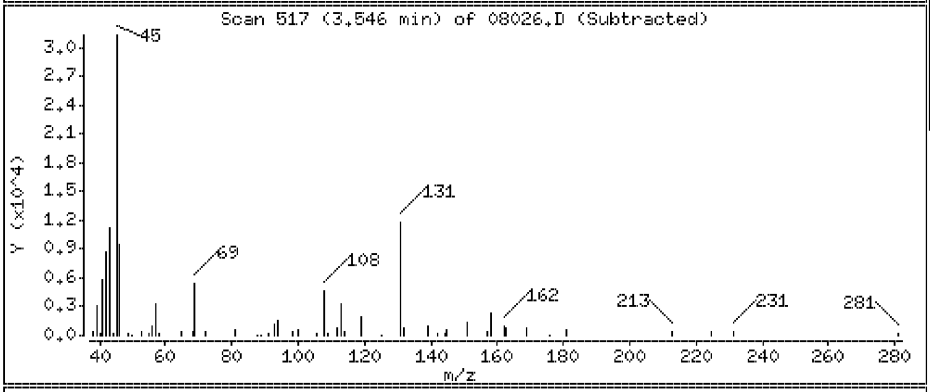
Column diameter: 0.32

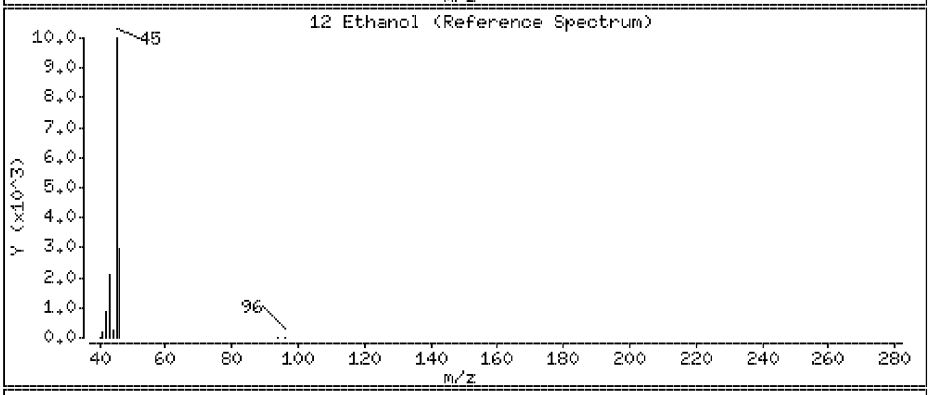
12 Ethanol

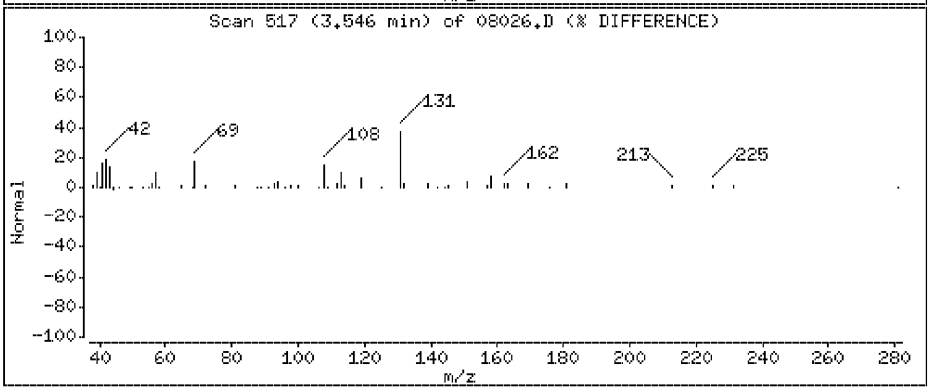
Concentration: 3.42 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

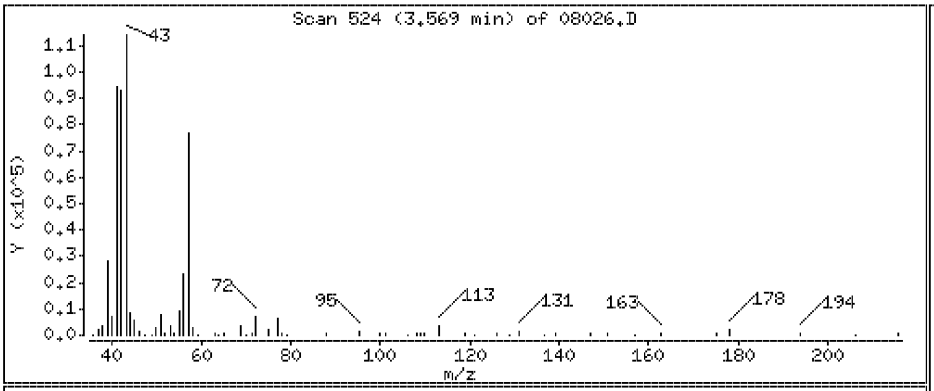
Operator: NCK

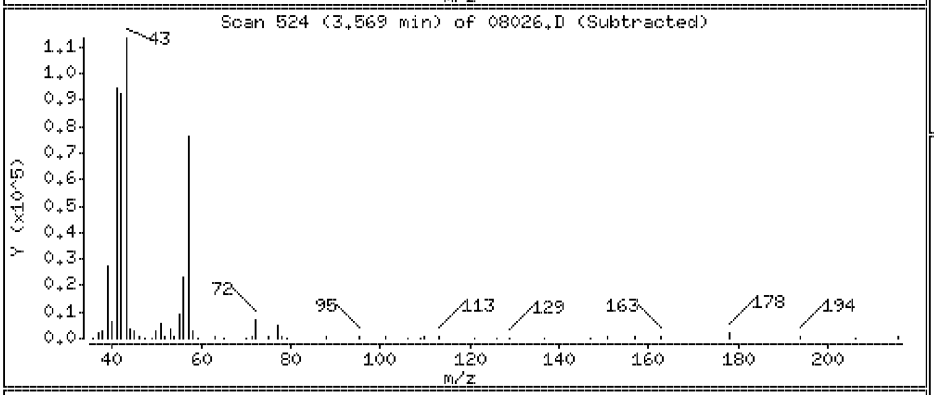
Column phase: J&W DB-5

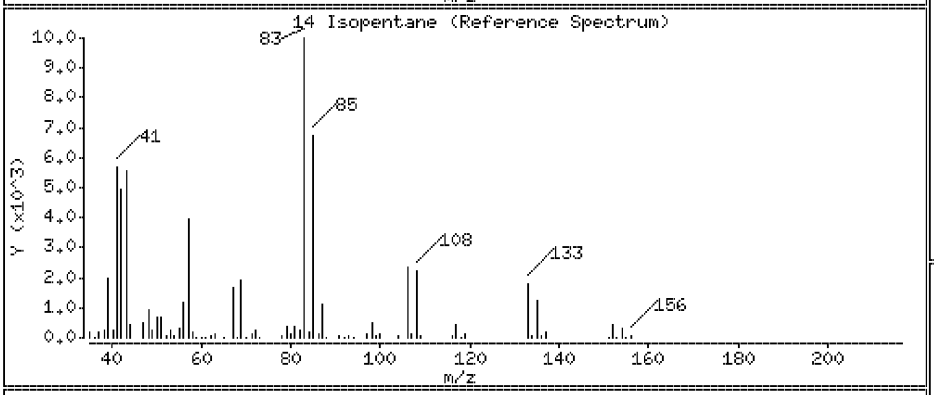
Column diameter: 0.32

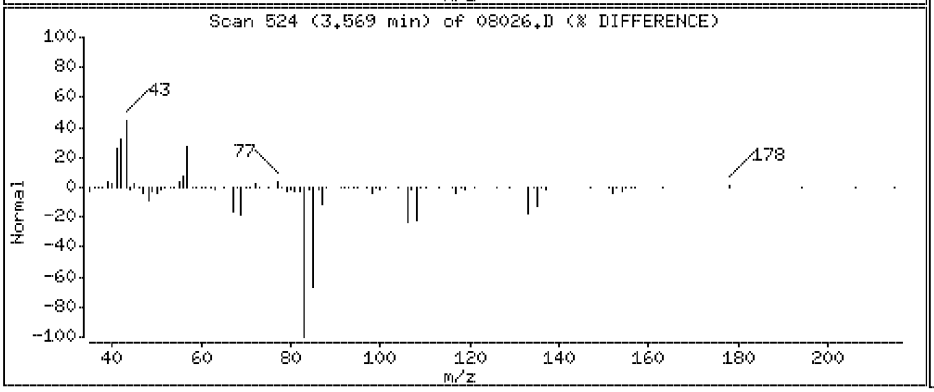
14 Isopentane

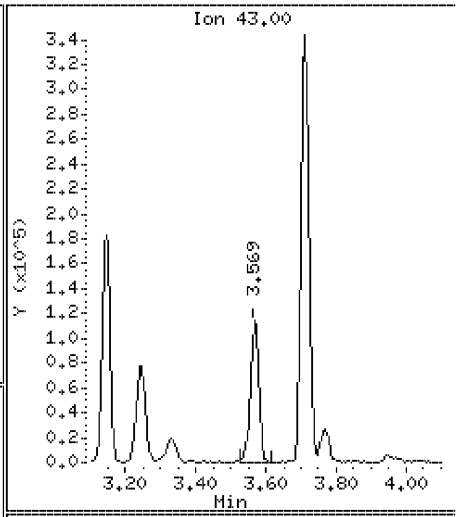
Concentration: 4.29 ppbv

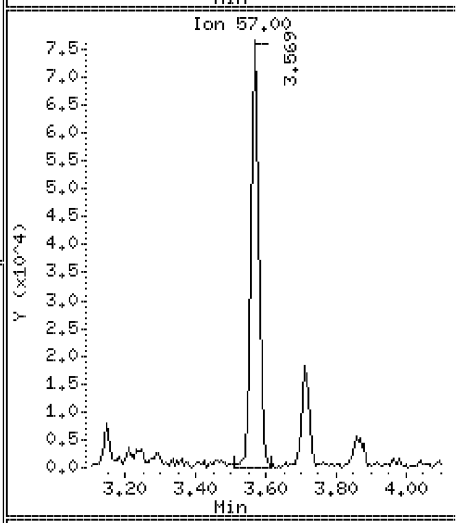


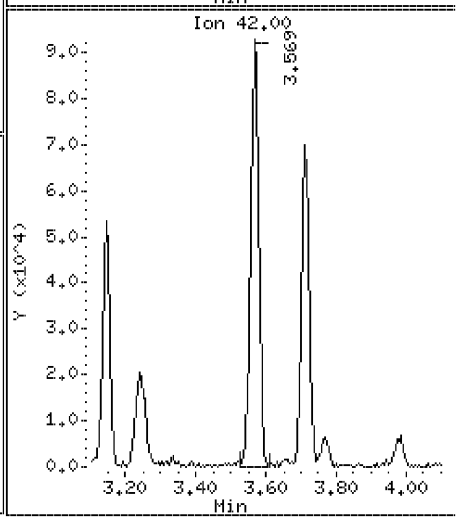












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

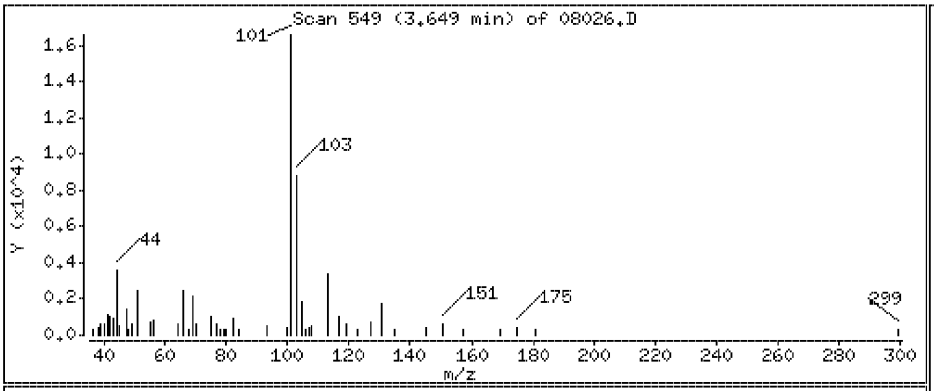
Operator: NCK

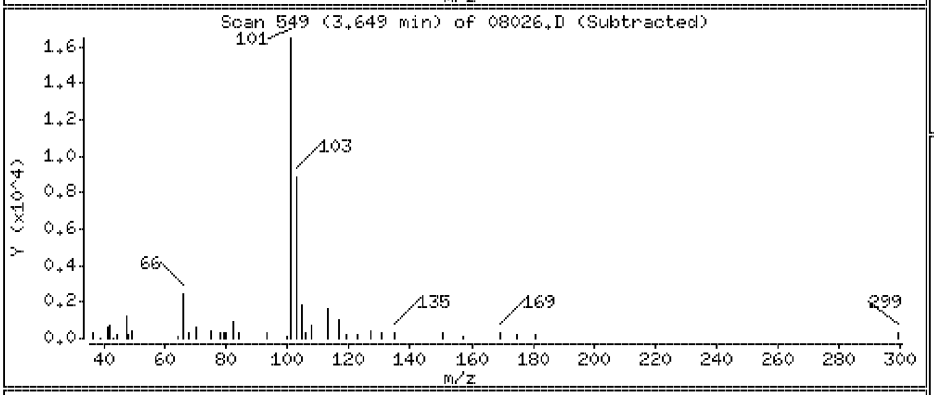
Column phase: J&W DB-5

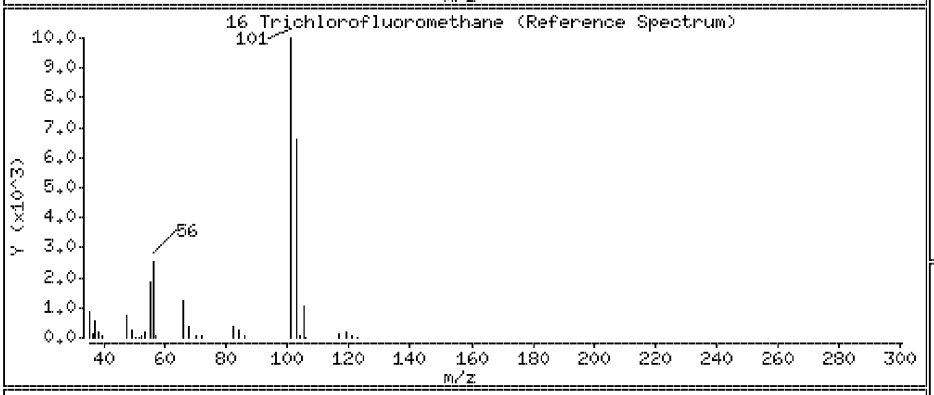
Column diameter: 0.32

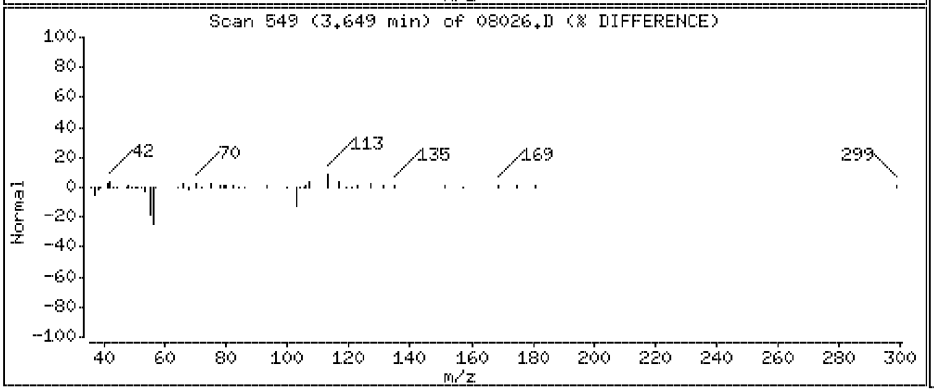
16 Trichlorofluoromethane

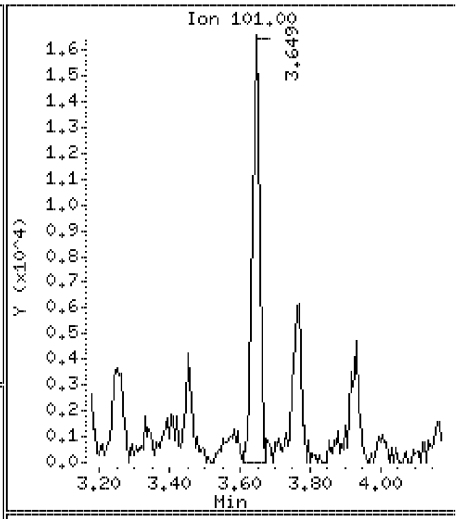
Concentration: 0.293 ppbv

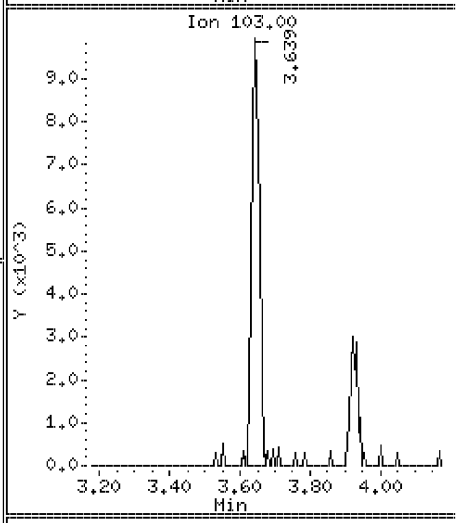


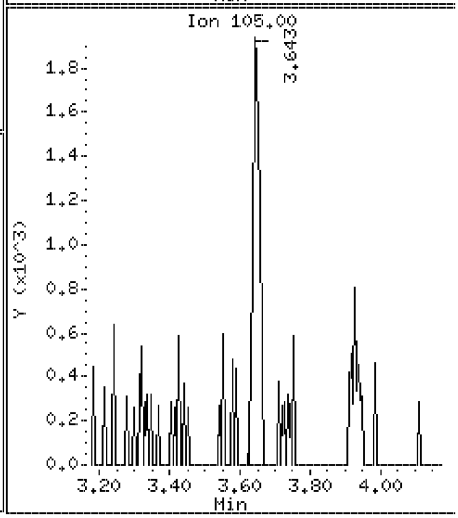












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

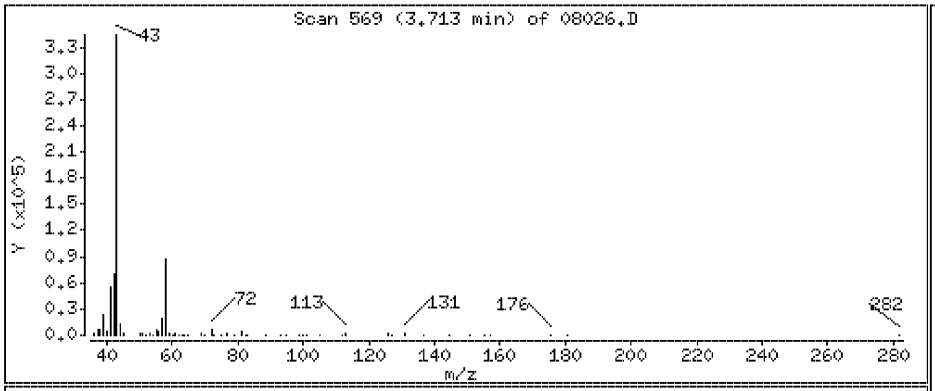
Operator: NCK

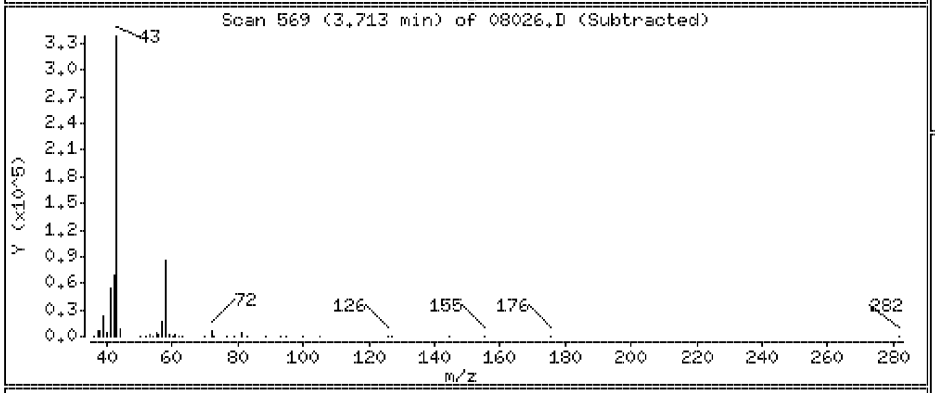
Column phase: J&W DB-5

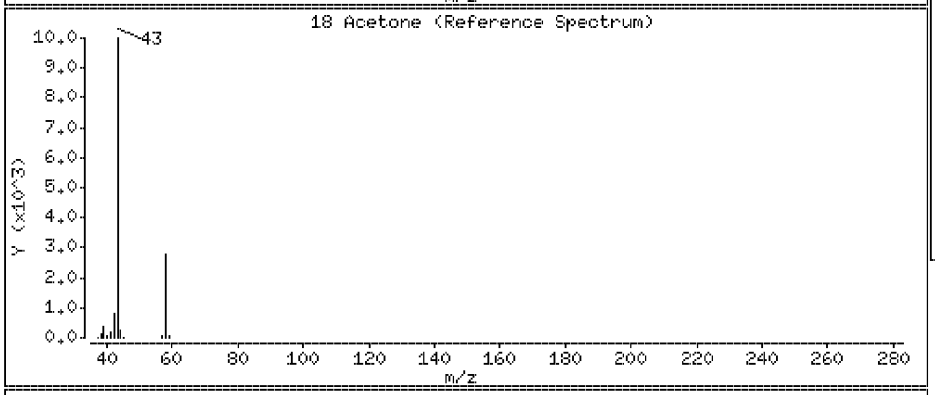
Column diameter: 0.32

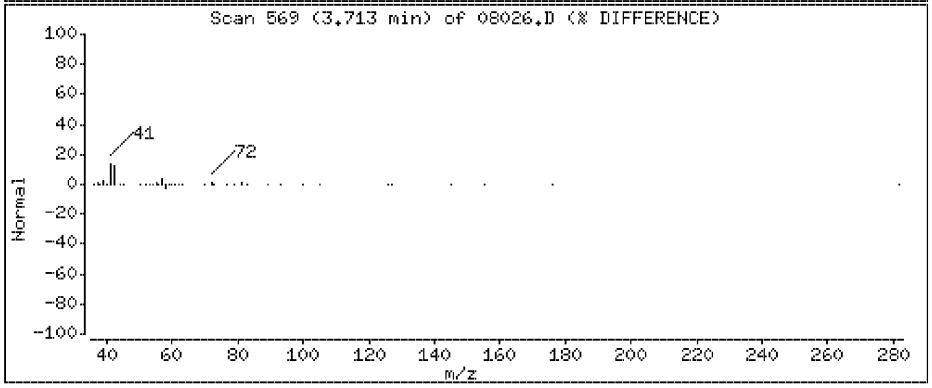
18 Acetone

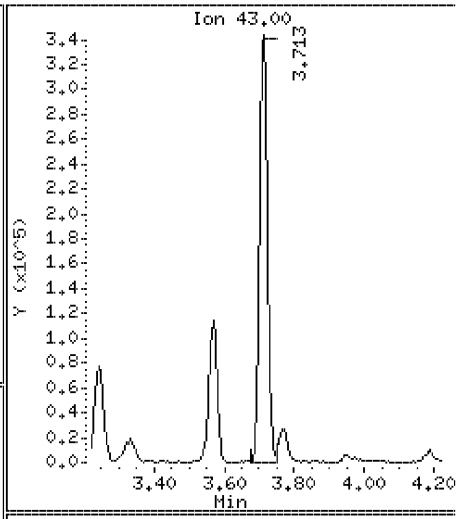
Concentration: 8.08 ppbv

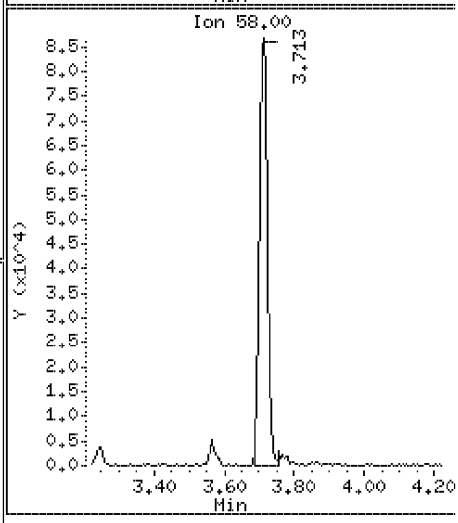












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

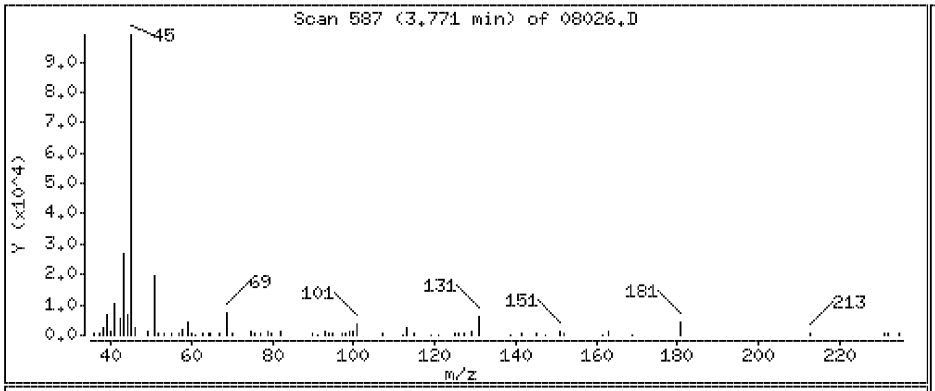
Operator: NCK

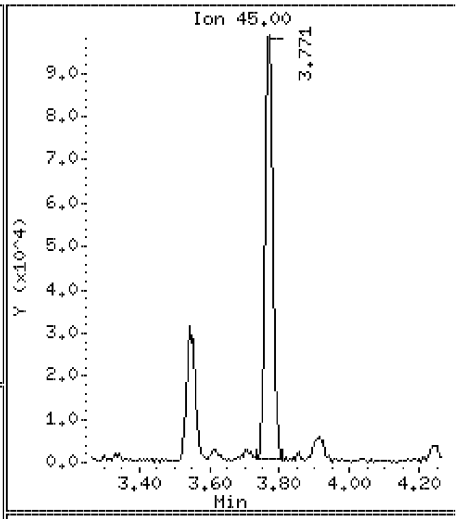
Column phase: J&W DB-5

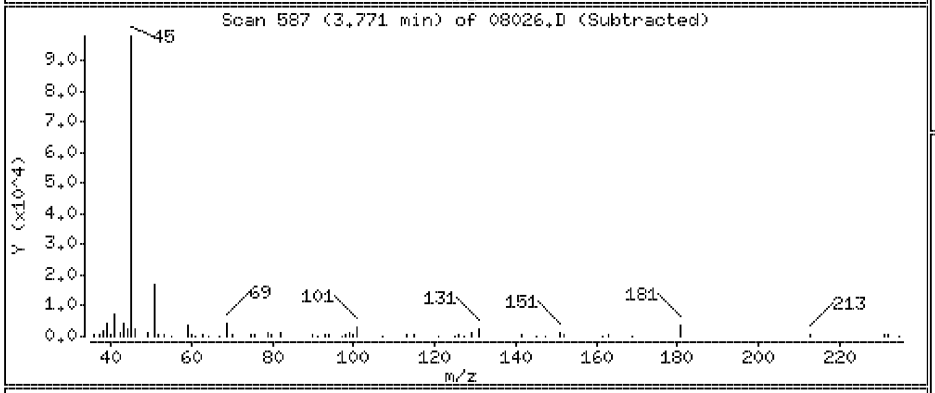
Column diameter: 0.32

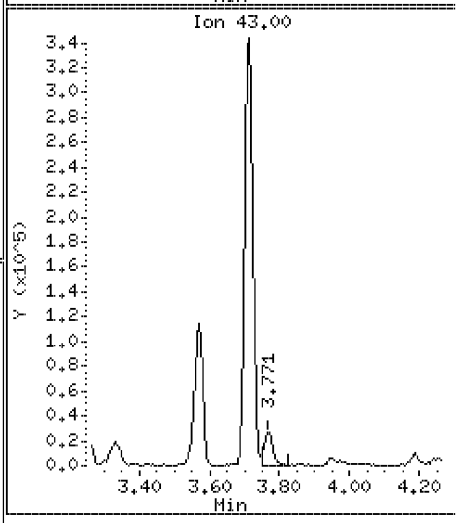
19 Isopropyl Alcohol

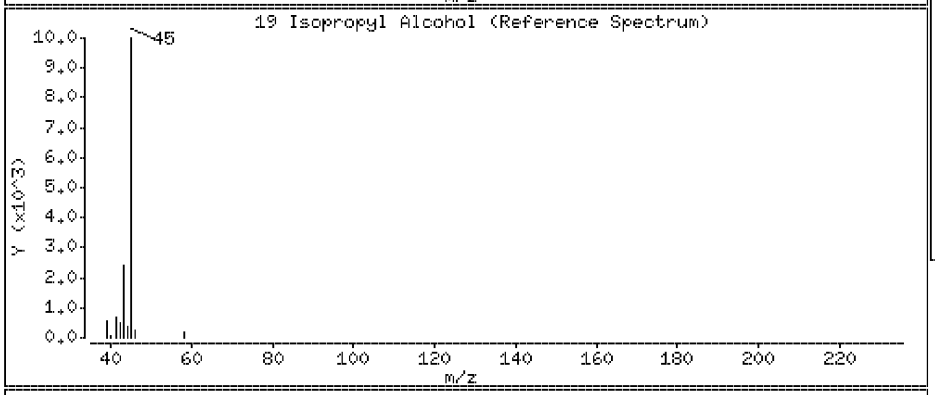
Concentration: 2.04 ppbv

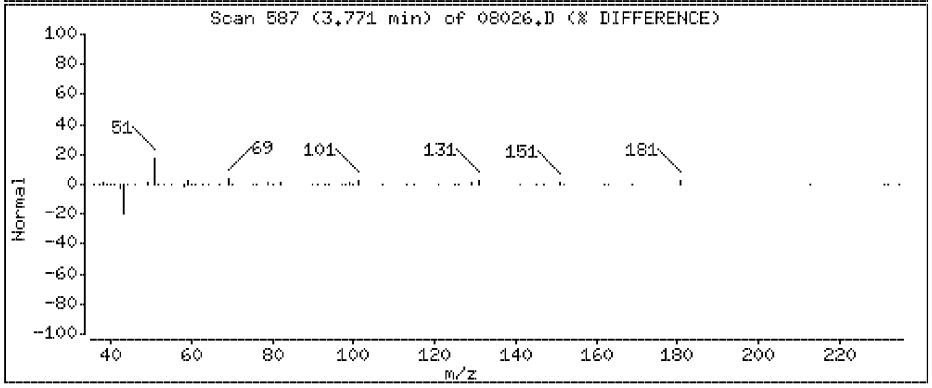












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

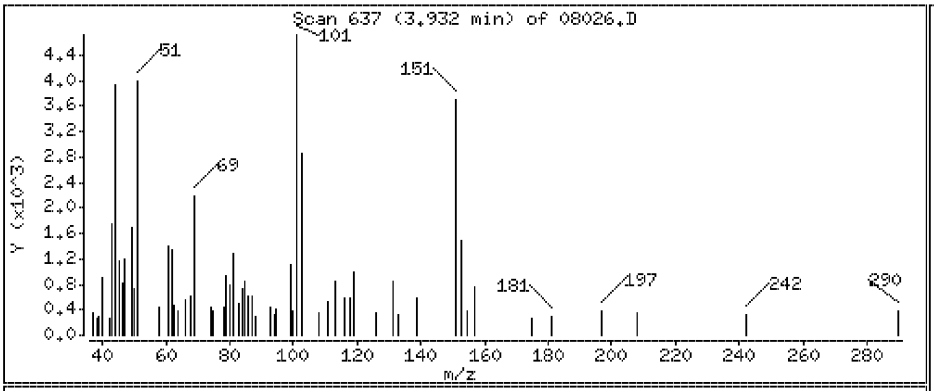
Operator: NCK

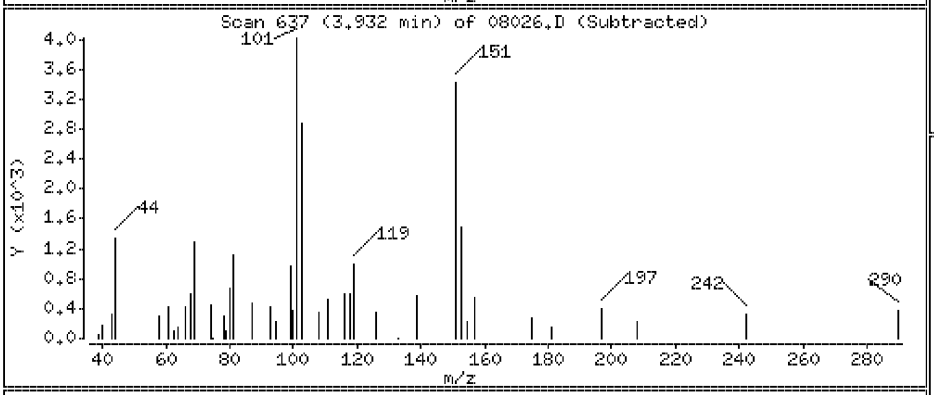
Column phase: J&W DB-5

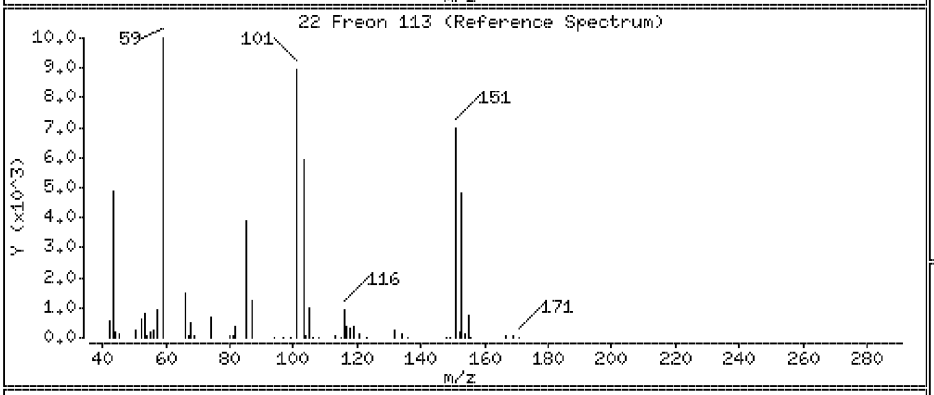
Column diameter: 0.32

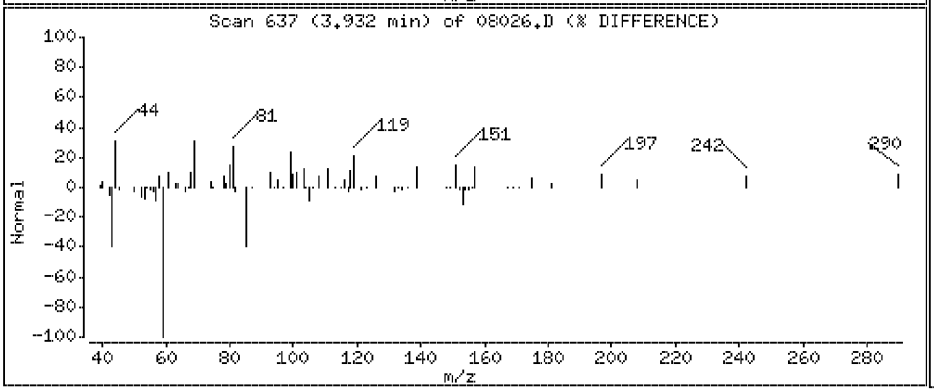
22 Freon 113

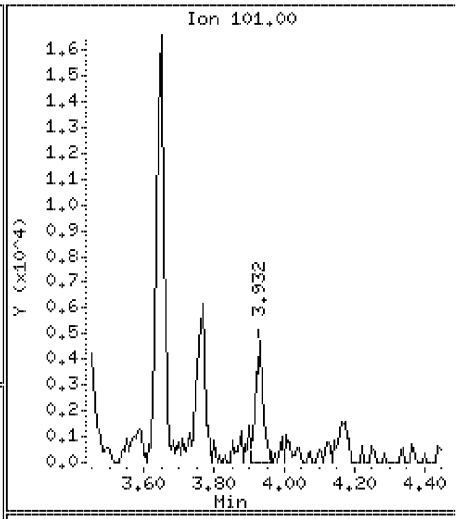
Concentration: 0.108 ppbv

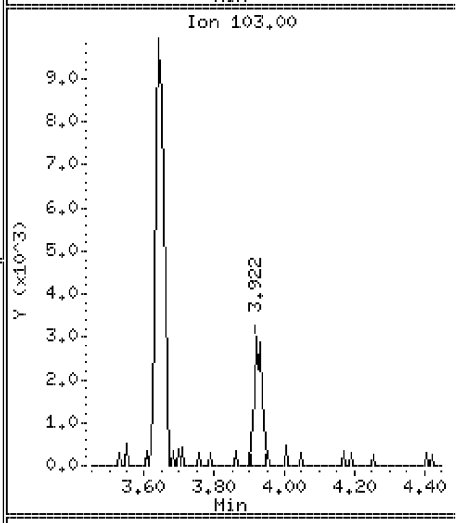


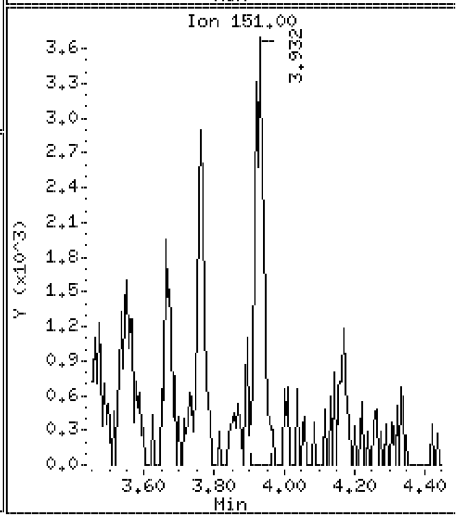












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

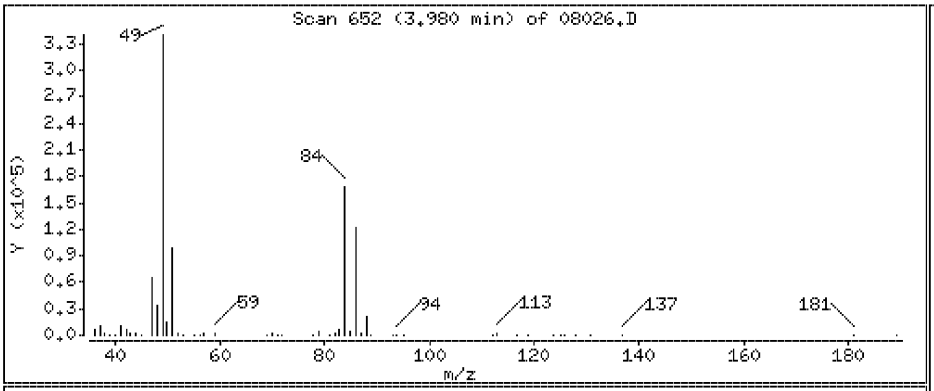
Operator: NCK

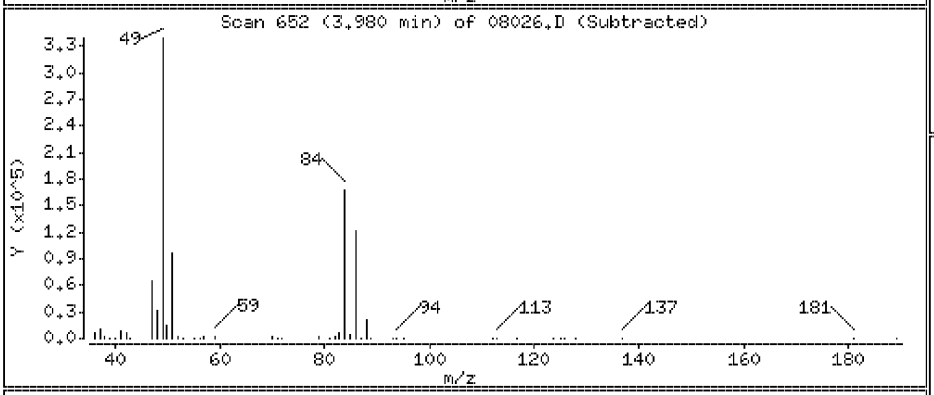
Column phase: J&W DB-5

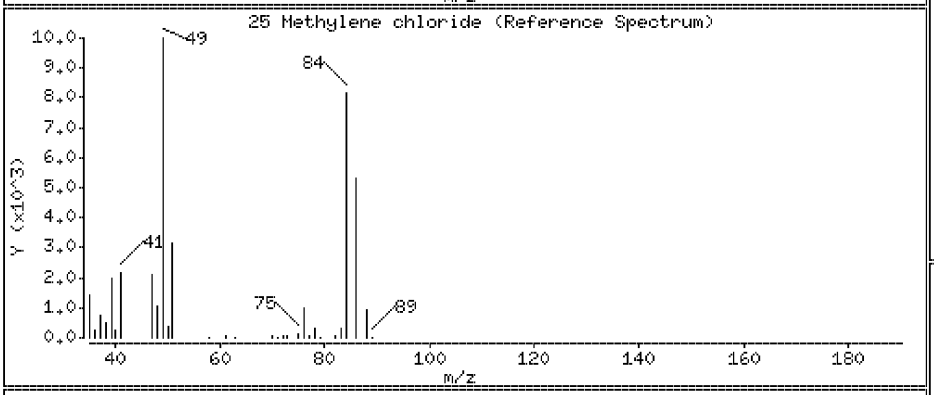
Column diameter: 0.32

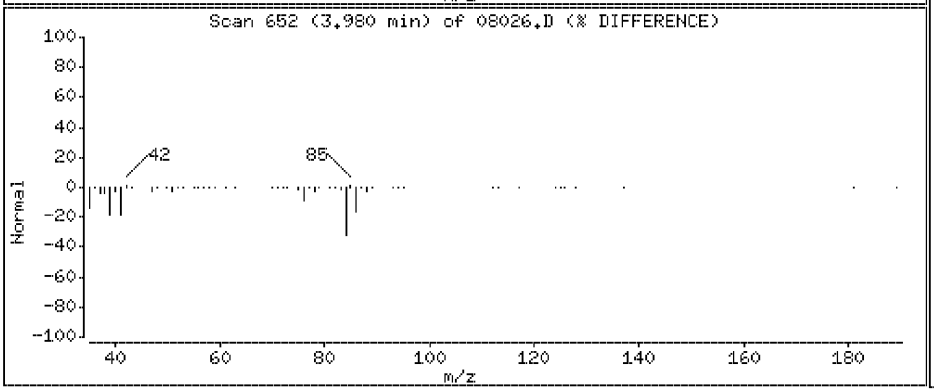
25 Methylene chloride

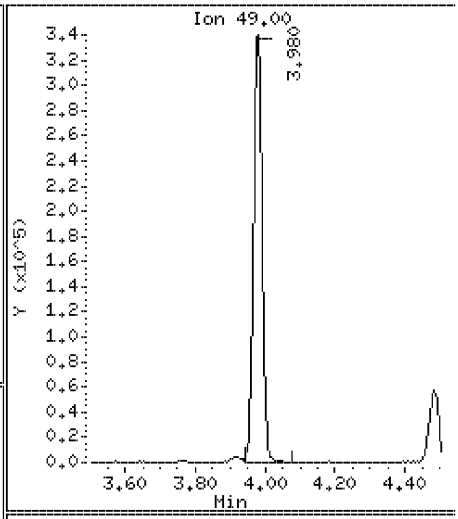
Concentration: 10.6 ppbv

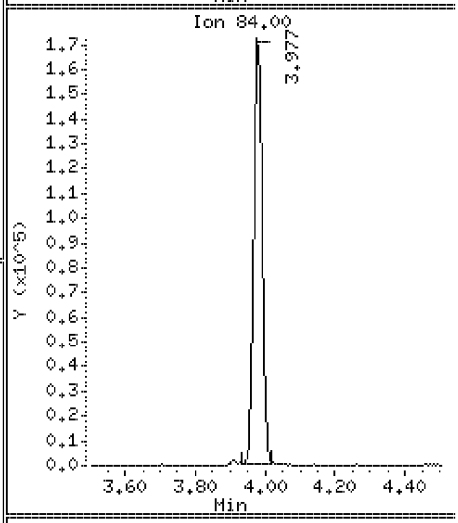


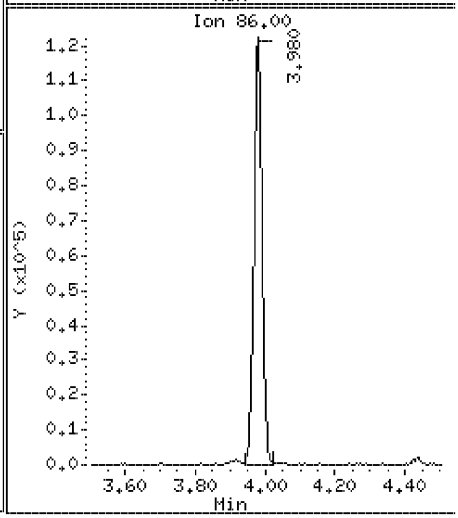












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

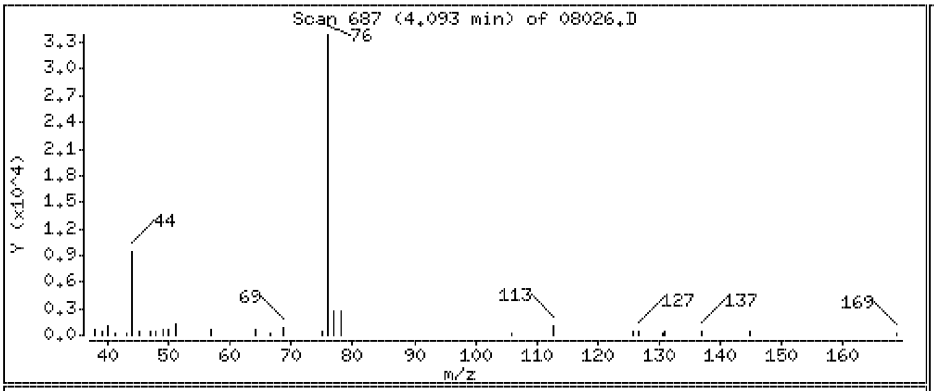
Operator: NCK

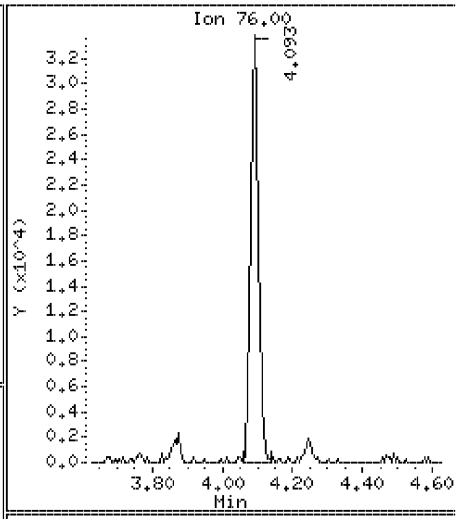
Column phase: J&W DB-5

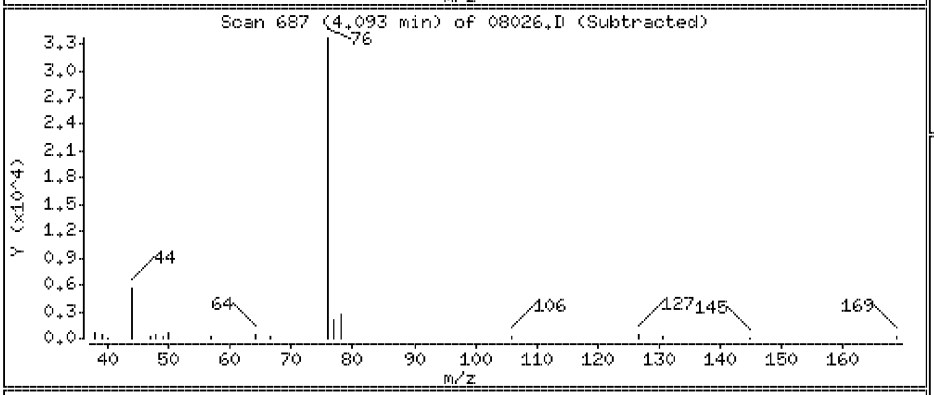
Column diameter: 0.32

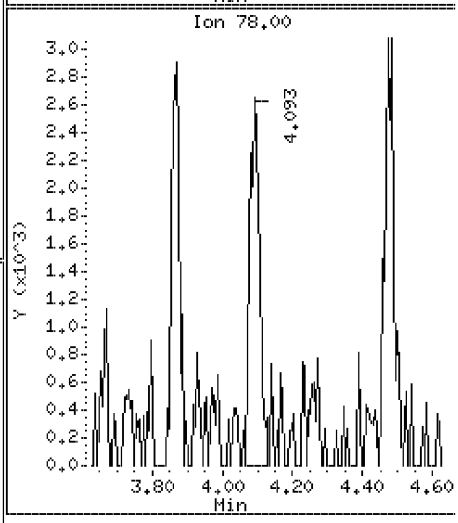
27 Carbon Disulfide

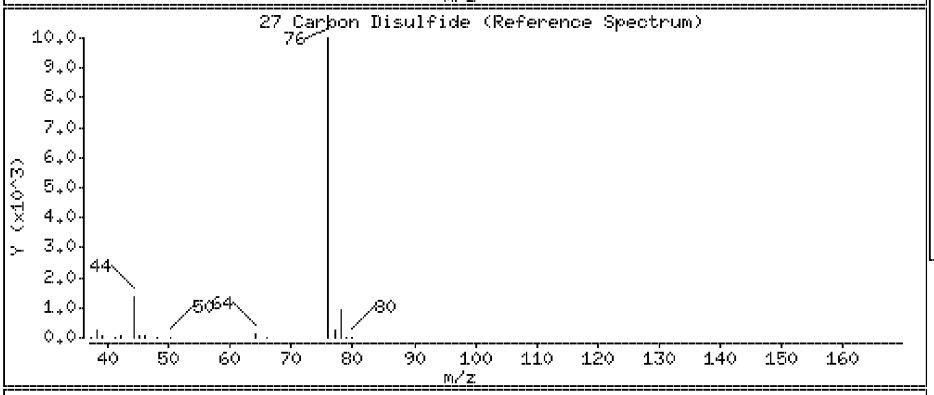
Concentration: 0.773 ppbv

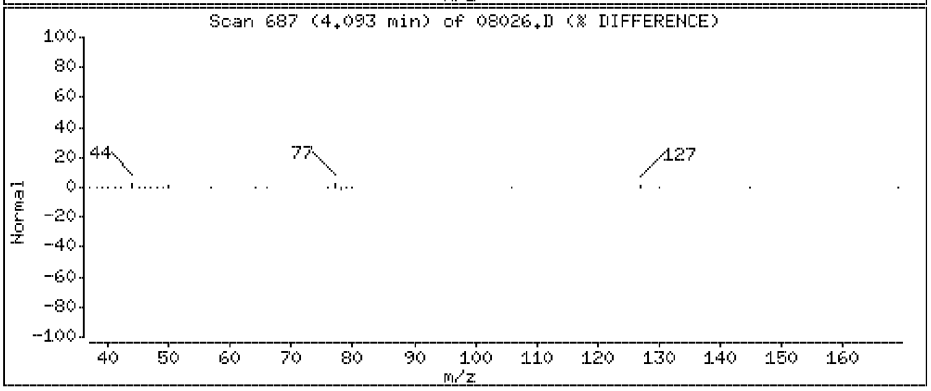












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

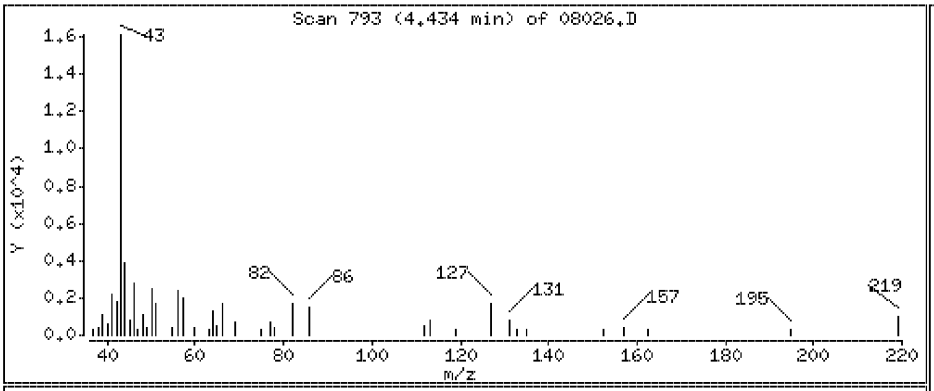
Operator: NCK

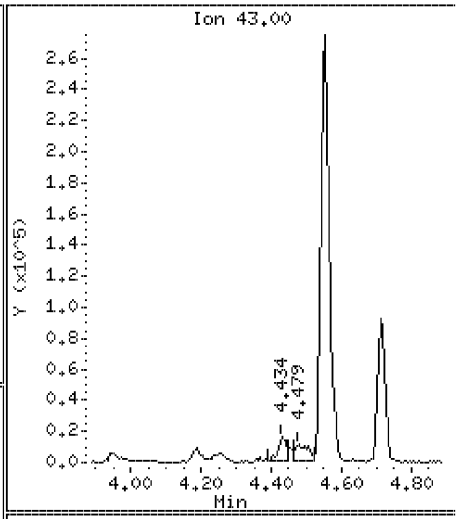
Column phase: J&W DB-5

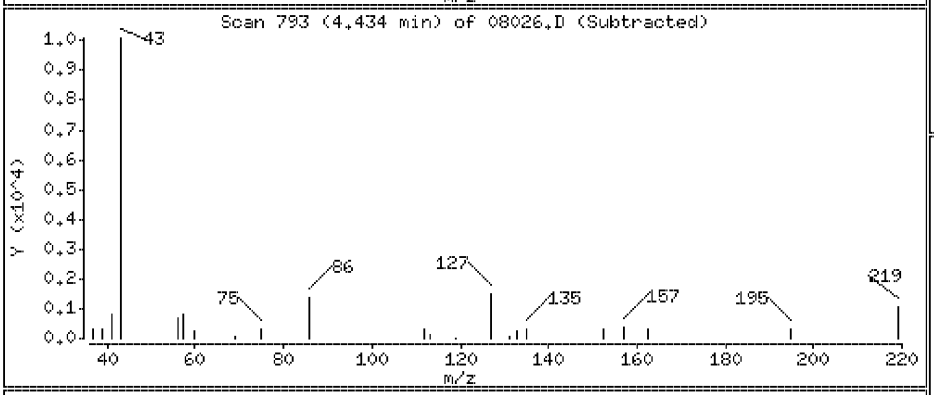
Column diameter: 0.32

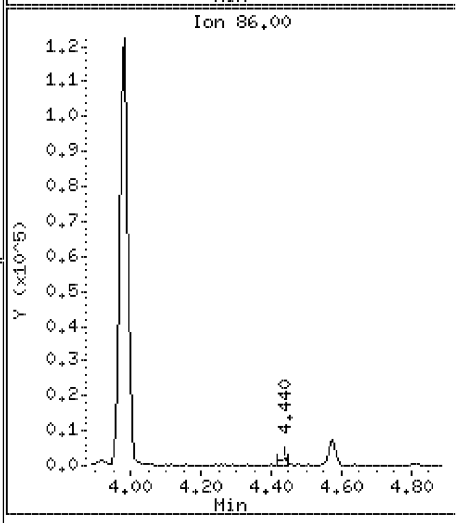
30 Vinyl Acetate

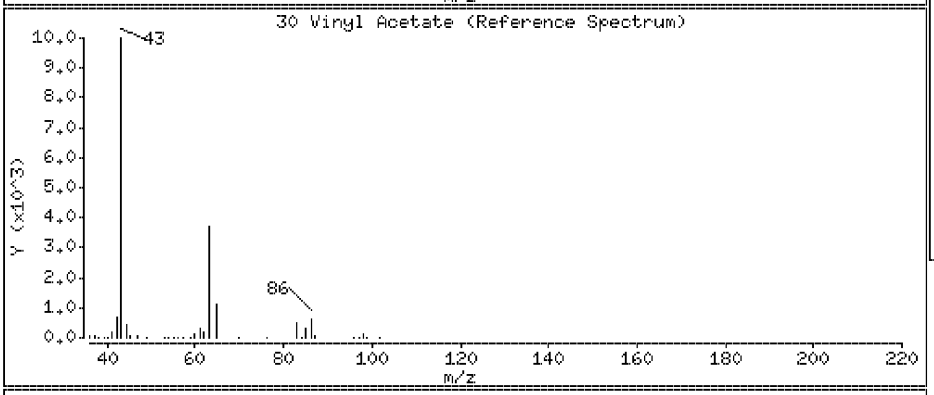
Concentration: 0.247 ppbv

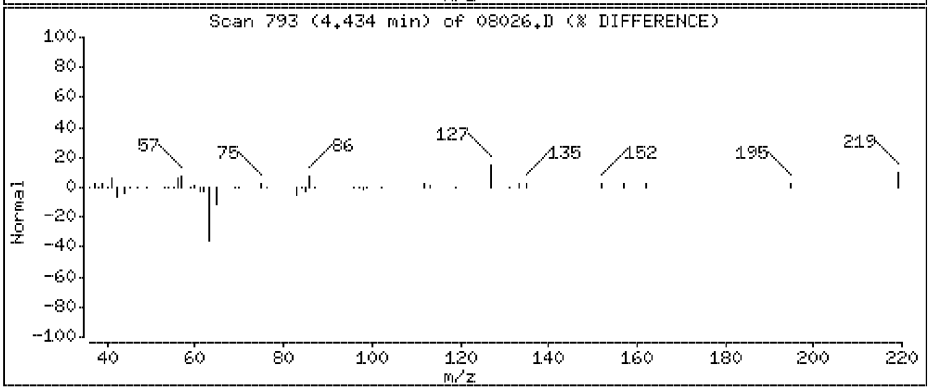












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

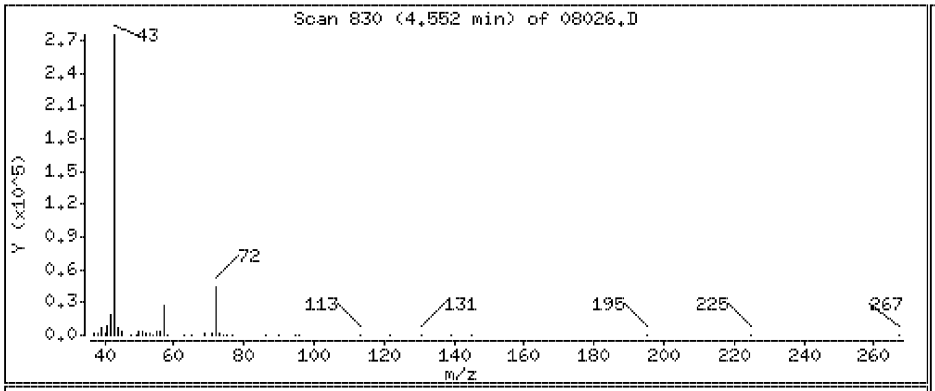
Operator: NCK

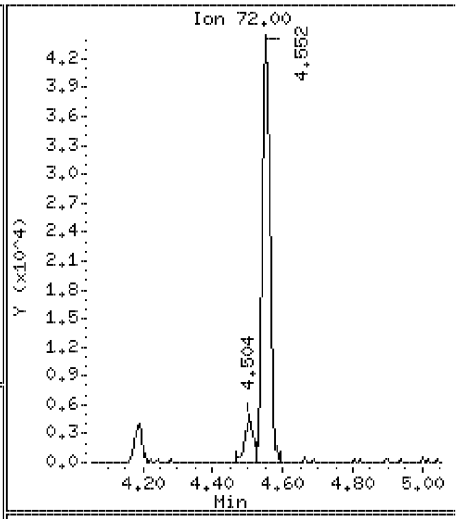
Column phase: J&W DB-5

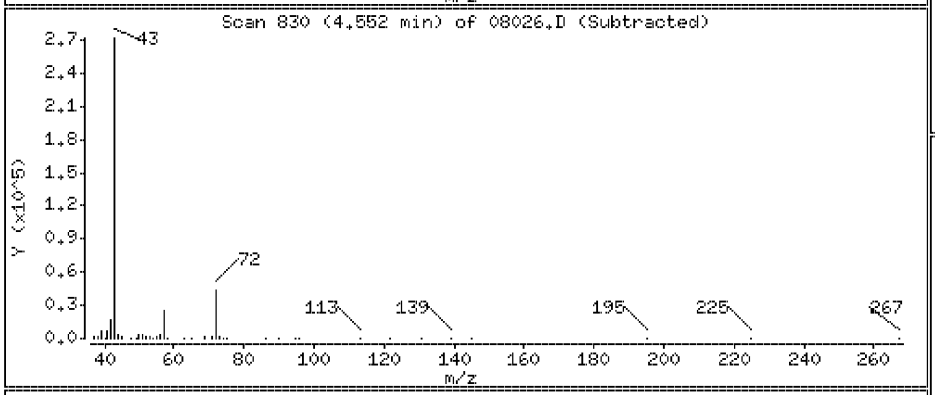
Column diameter: 0.32

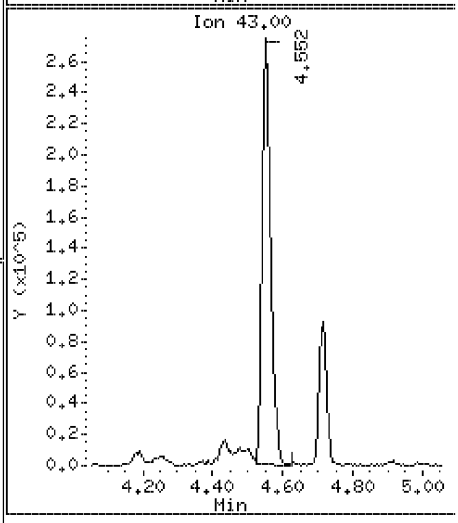
33 Methyl Ethyl Ketone

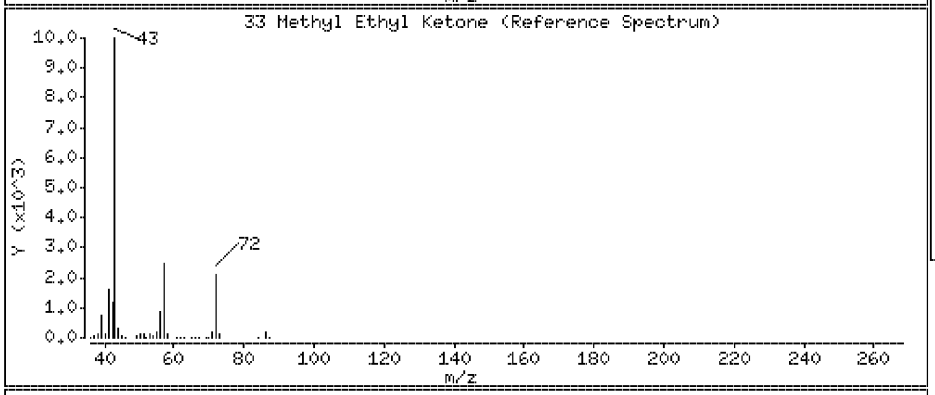
Concentration: 4.43 ppbv

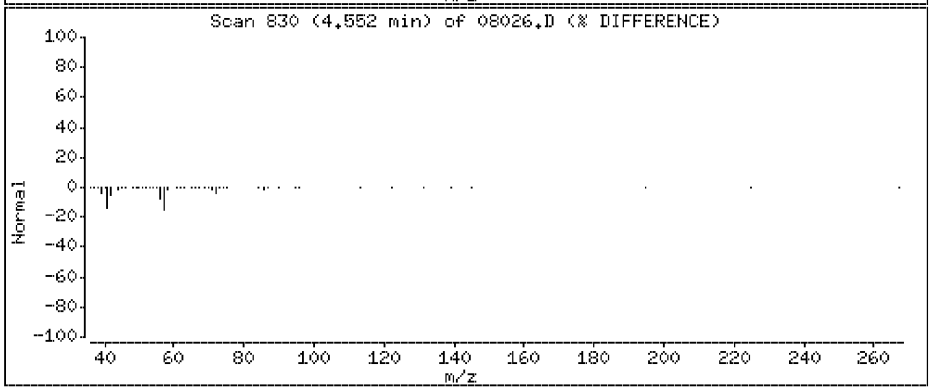












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

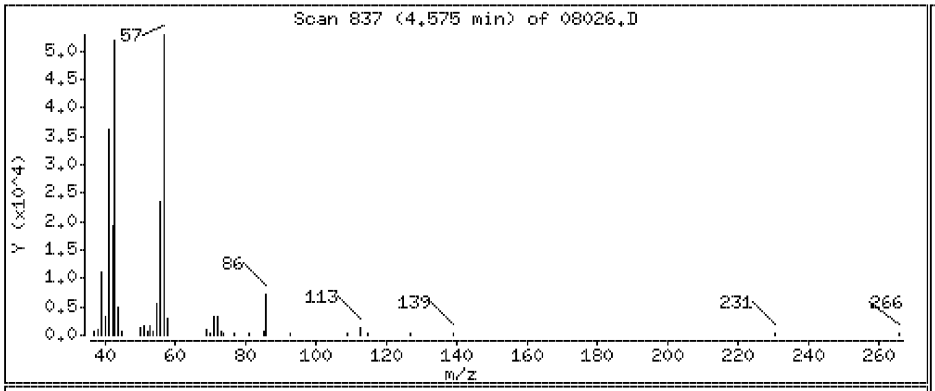
Operator: NCK

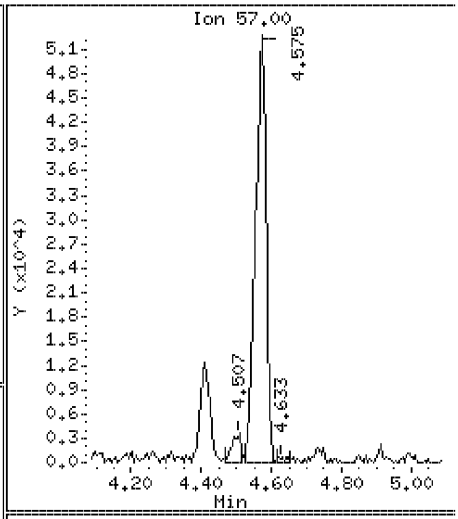
Column phase: J&W DB-5

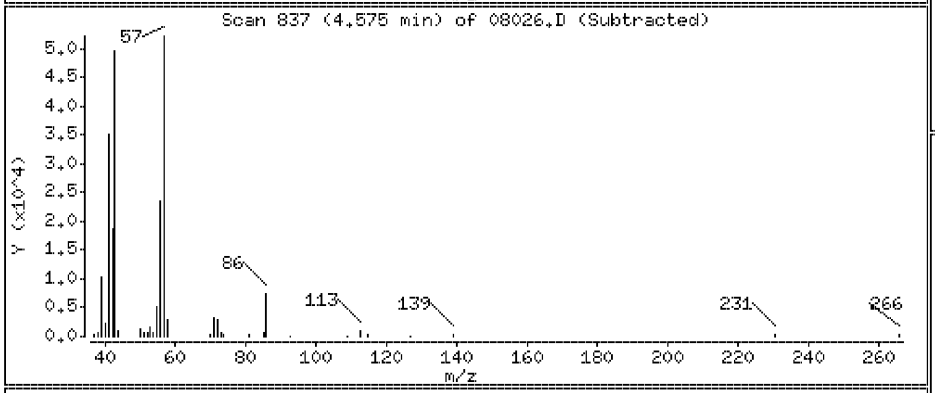
Column diameter: 0.32

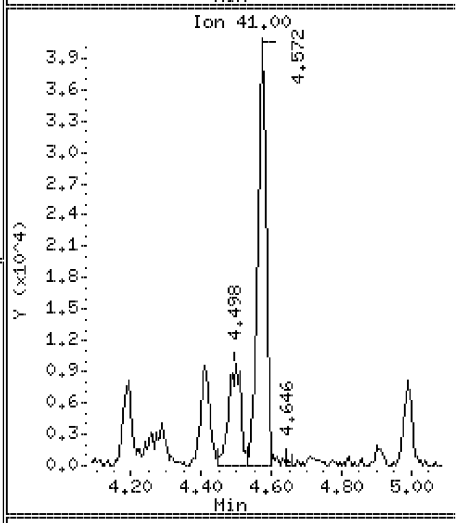
34 n-Hexane

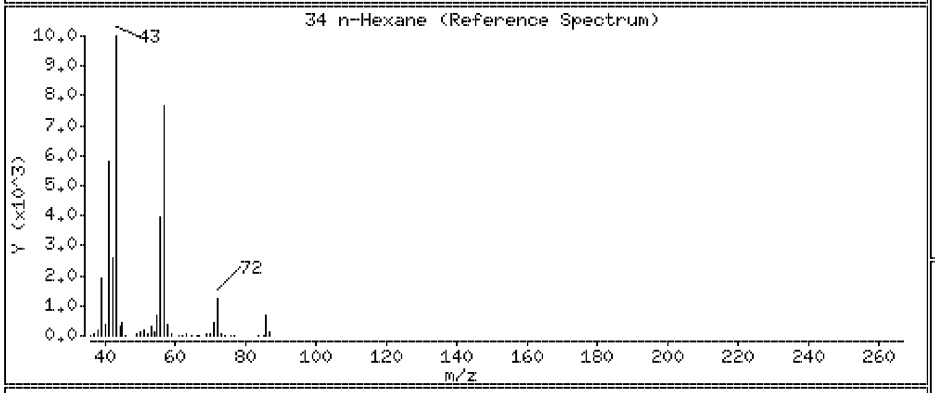
Concentration: 1.59 ppbv

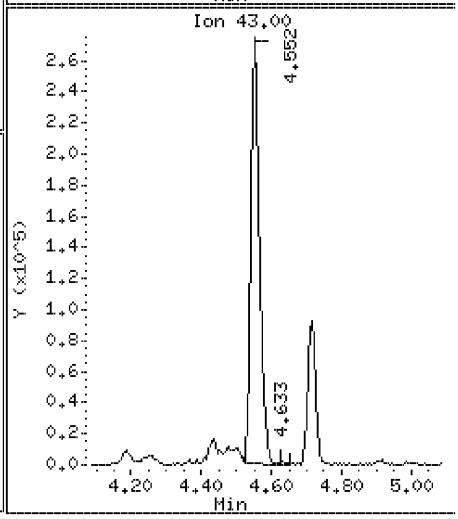


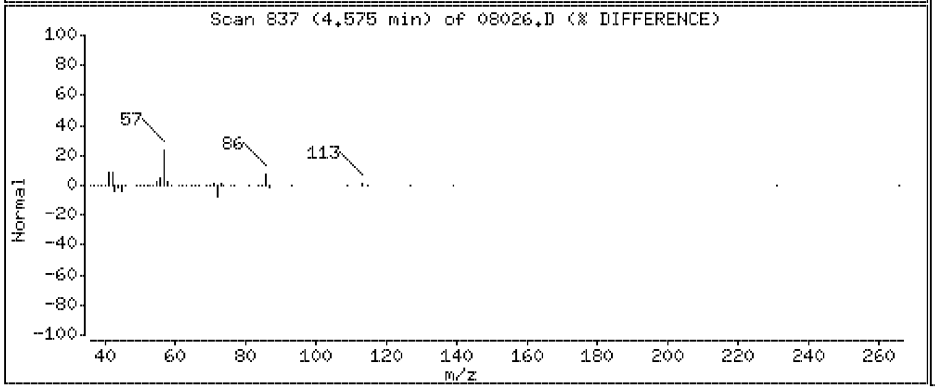












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

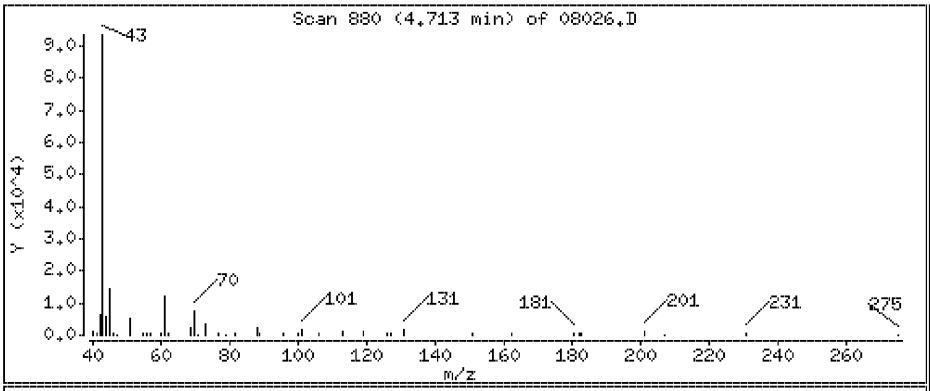
Operator: NCK

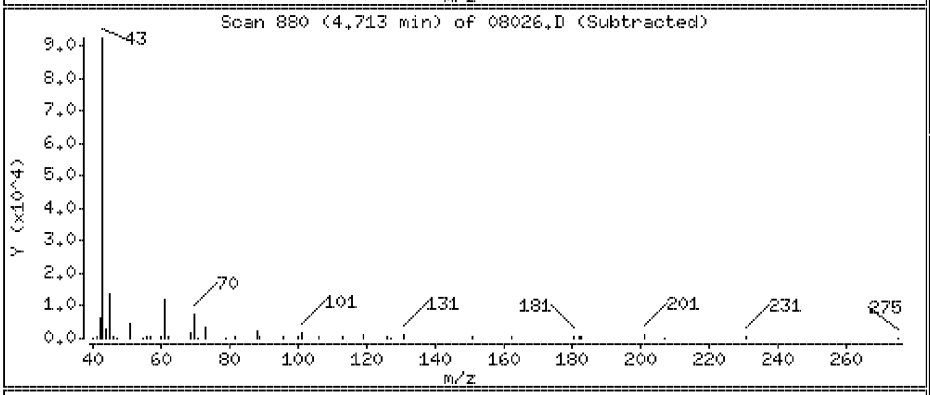
Column phase: J&W DB-5

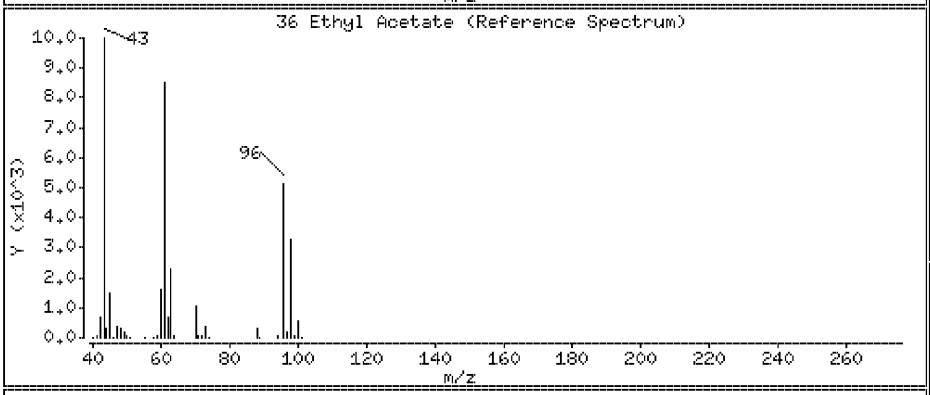
Column diameter: 0.32

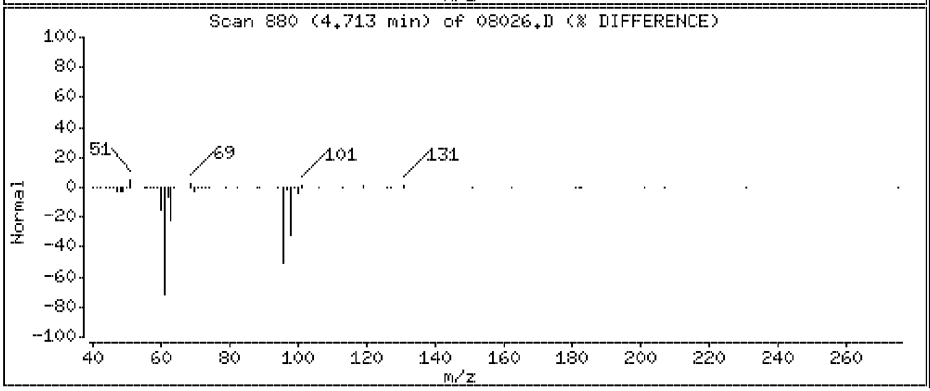
36 Ethyl Acetate

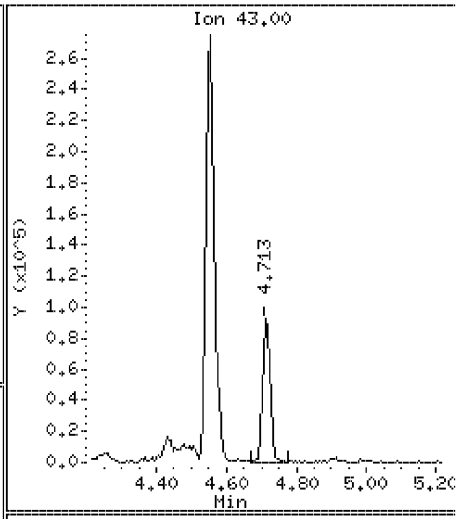
Concentration: 1.43 ppbv

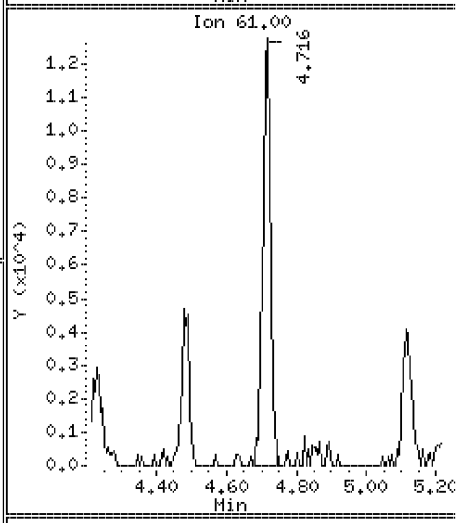


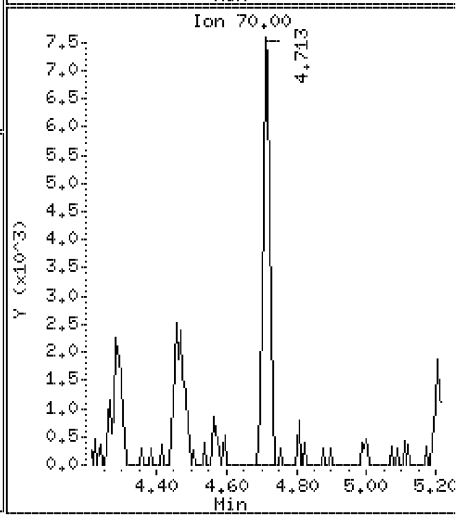












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

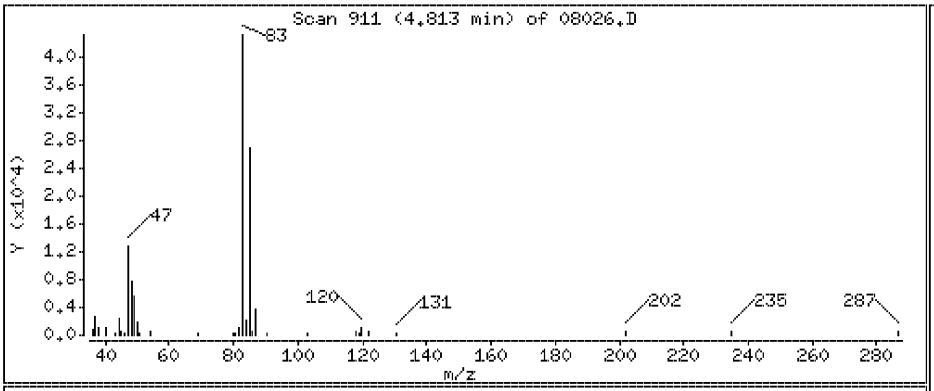
Operator: NCK

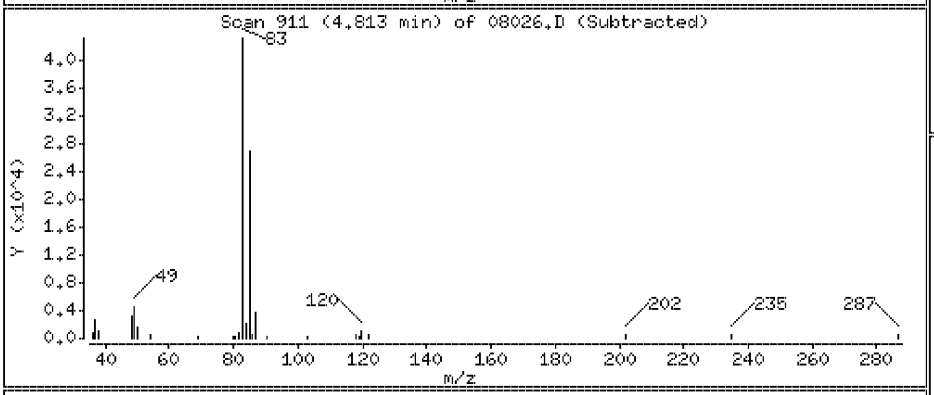
Column phase: J&W DB-5

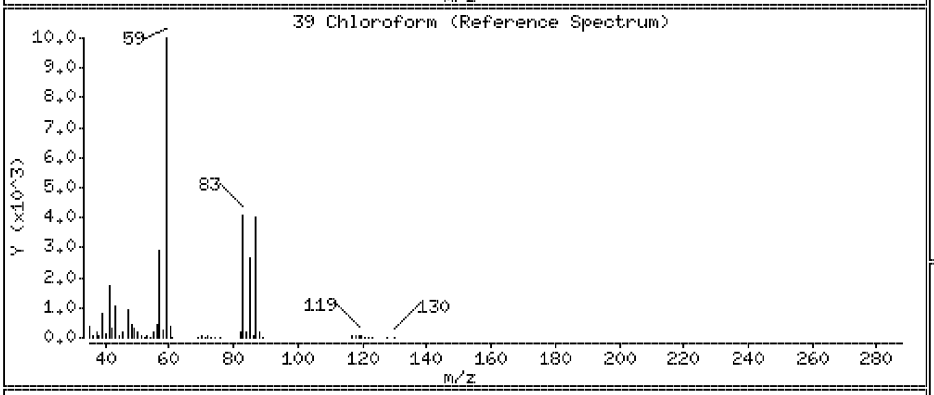
Column diameter: 0.32

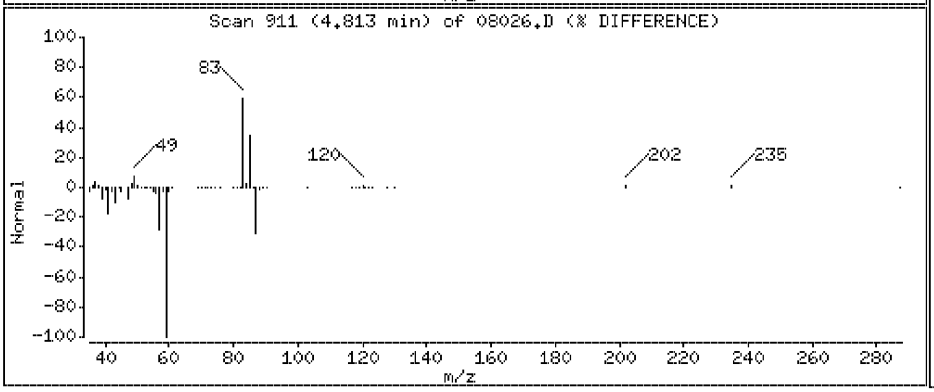
39 Chloroform

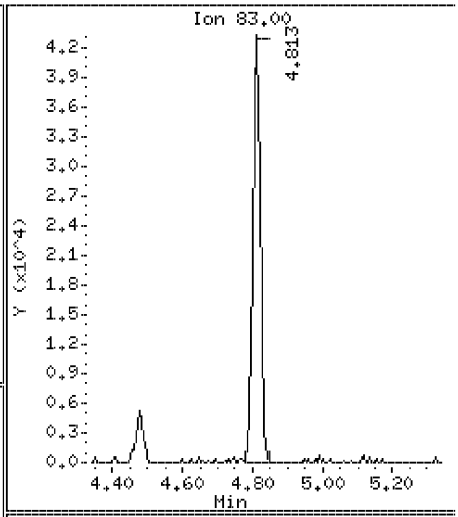
Concentration: 0.840 ppbv

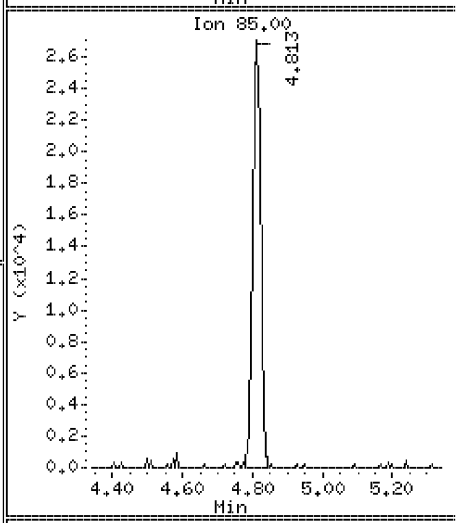


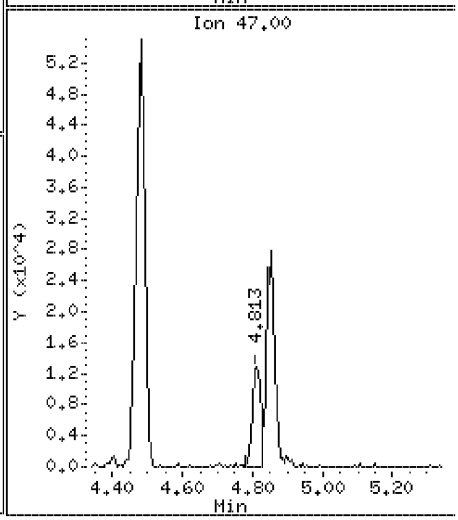












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

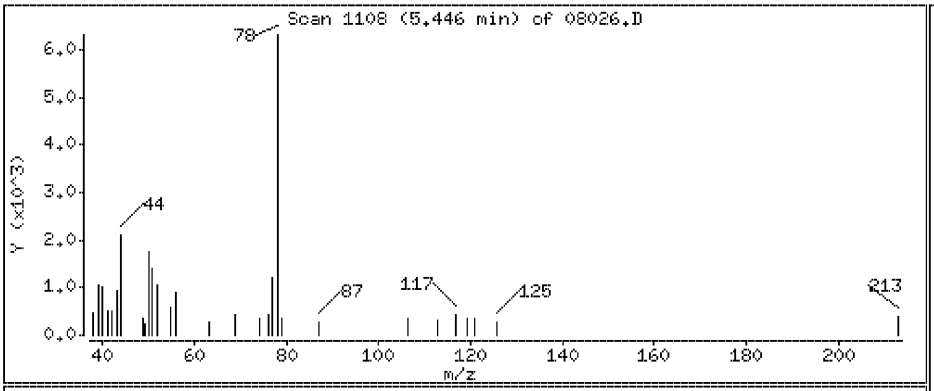
Operator: NCK

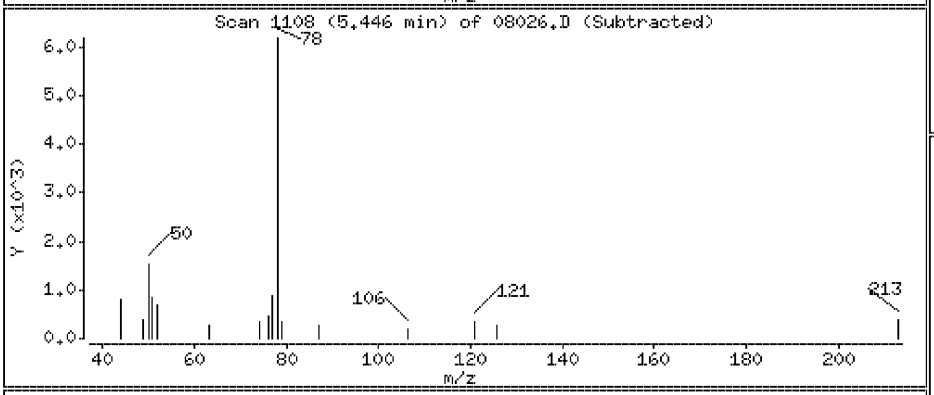
Column phase: J&W DB-5

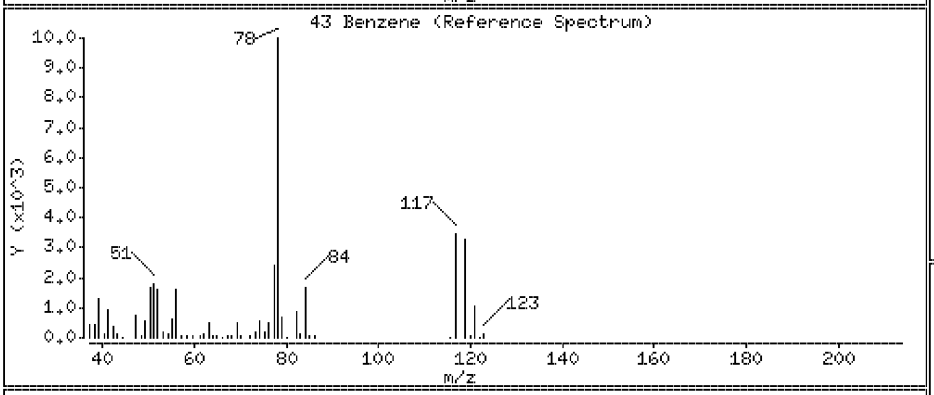
Column diameter: 0.32

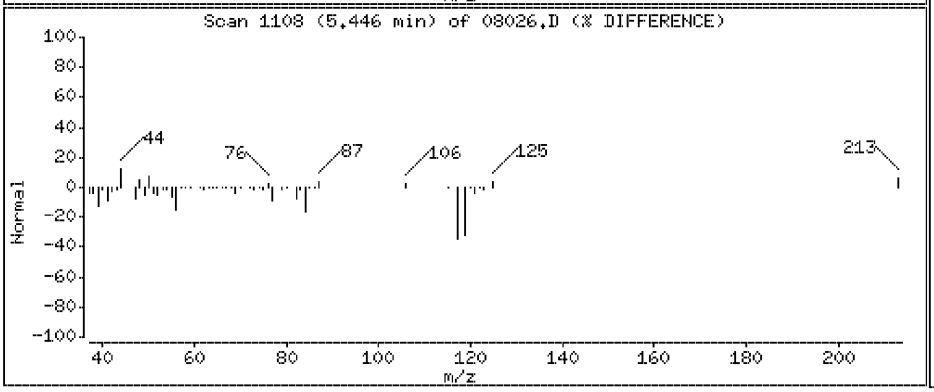
43 Benzene

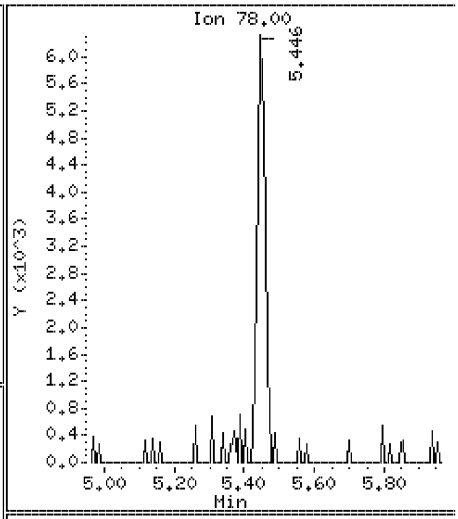
Concentration: 0.0827 ppbv

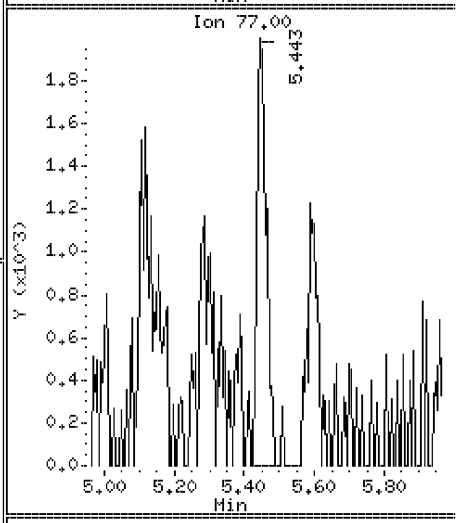


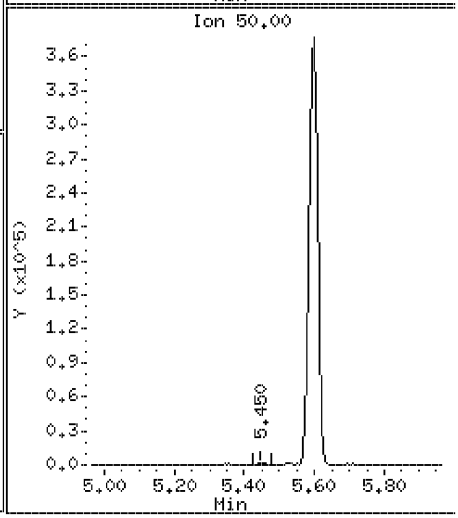












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

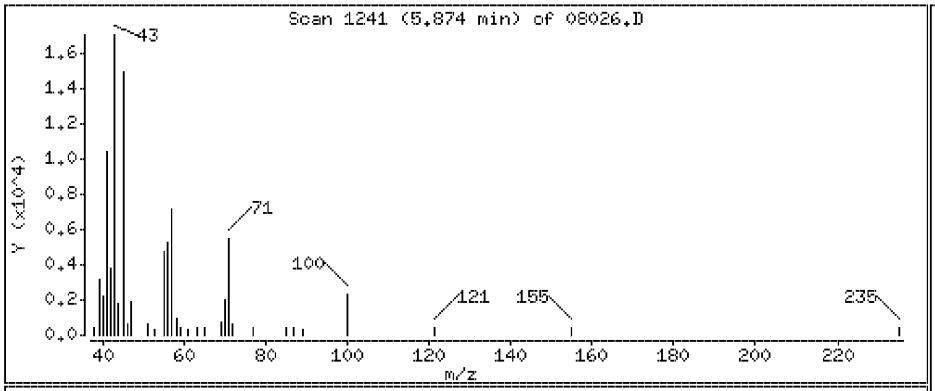
Operator: NCK

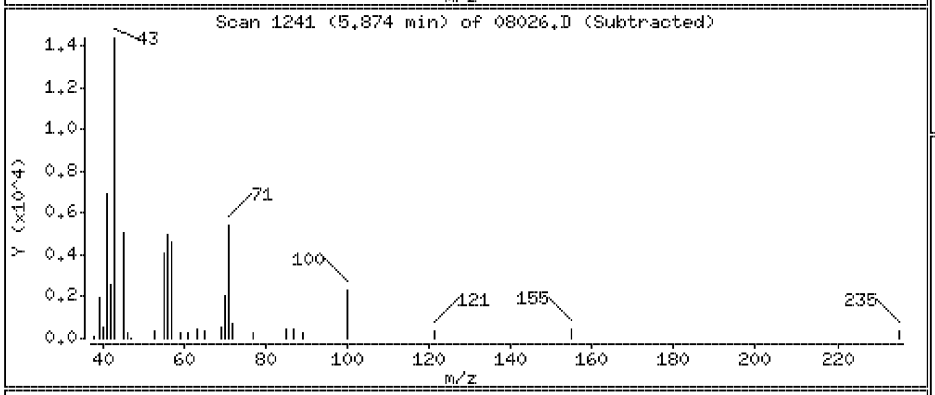
Column phase: J&W DB-5

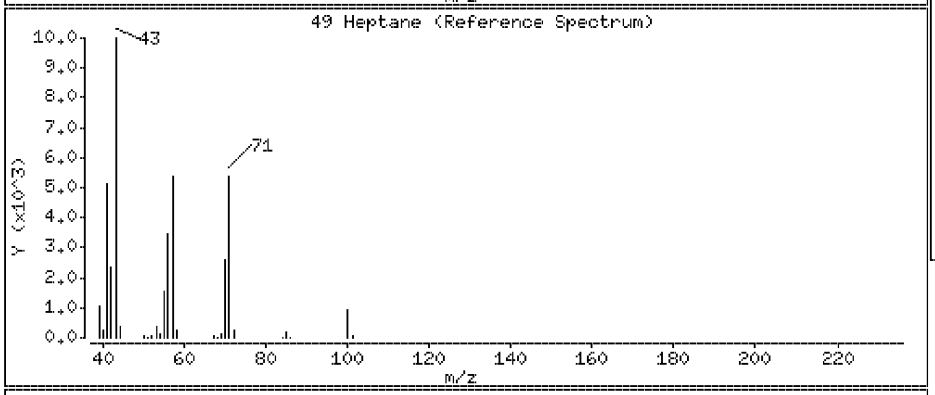
Column diameter: 0.32

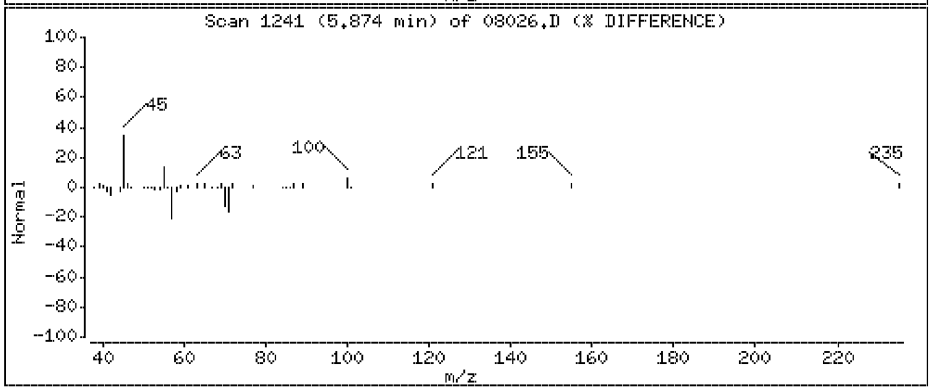
49 Heptane

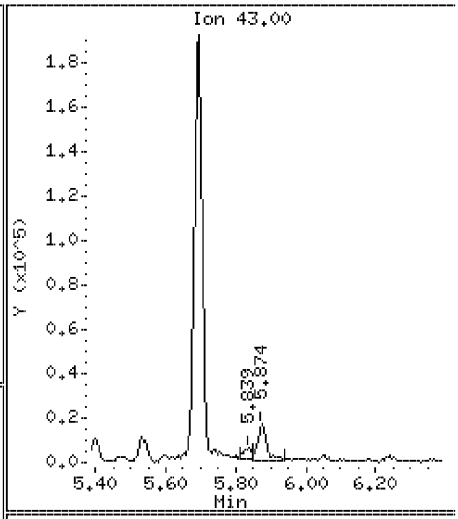
Concentration: 0.333 ppbv

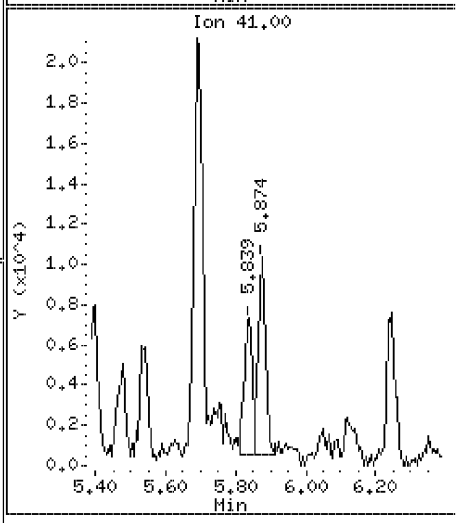












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

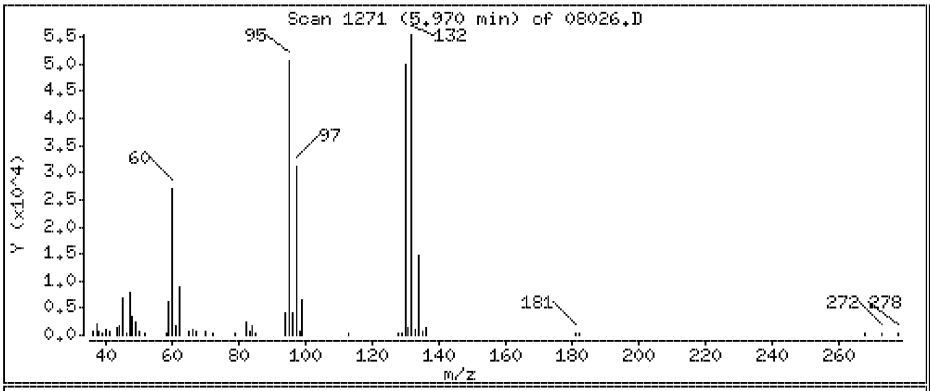
Operator: NCK

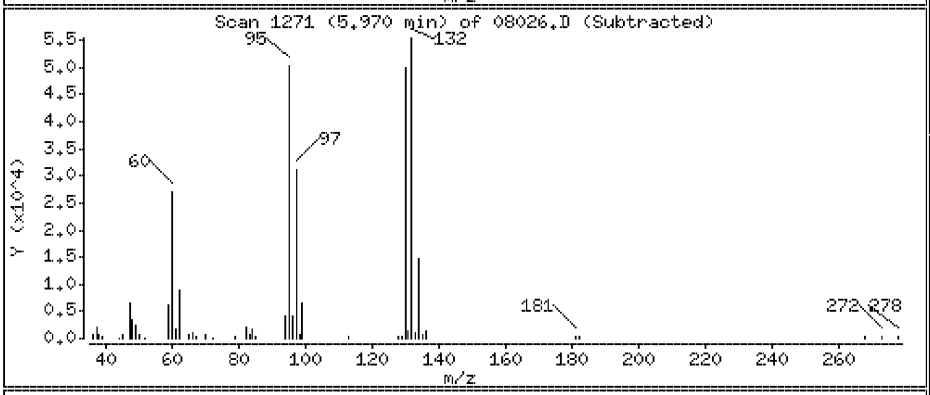
Column phase: J&W DB-5

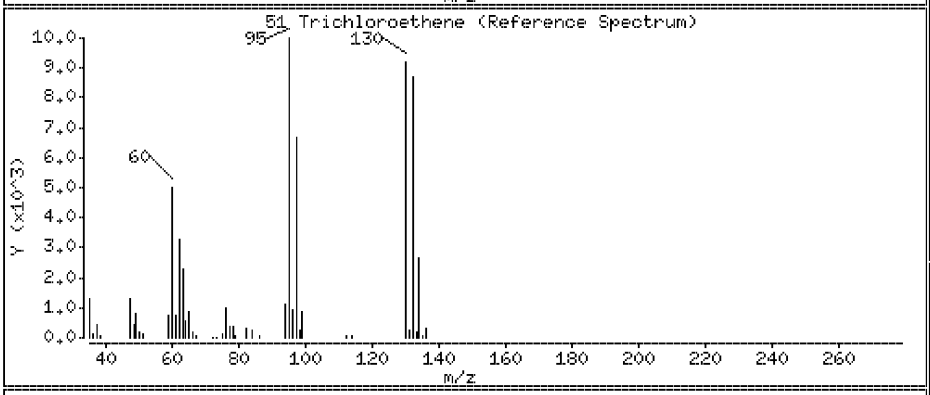
Column diameter: 0.32

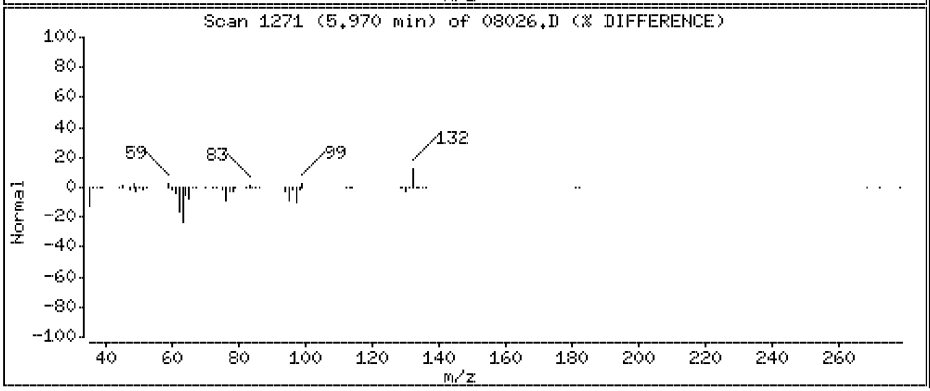
51 Trichloroethene

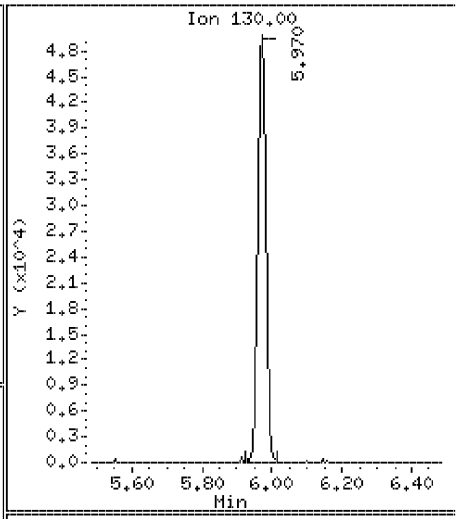
Concentration: 1.47 ppbv

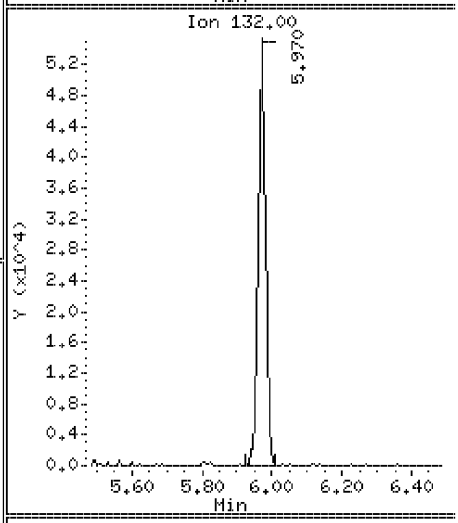


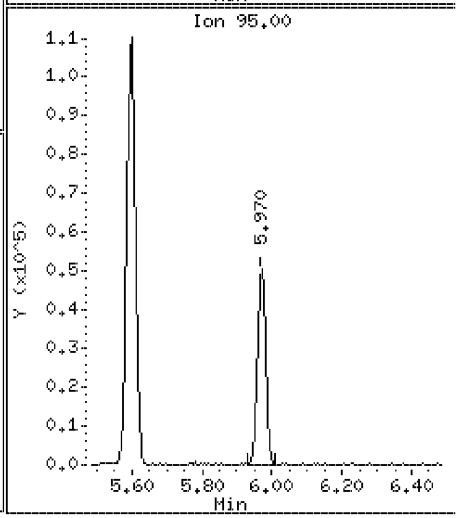












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

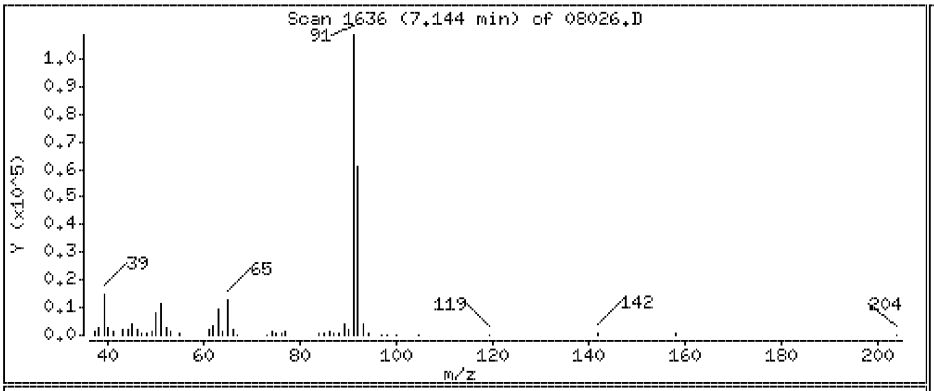
Operator: NCK

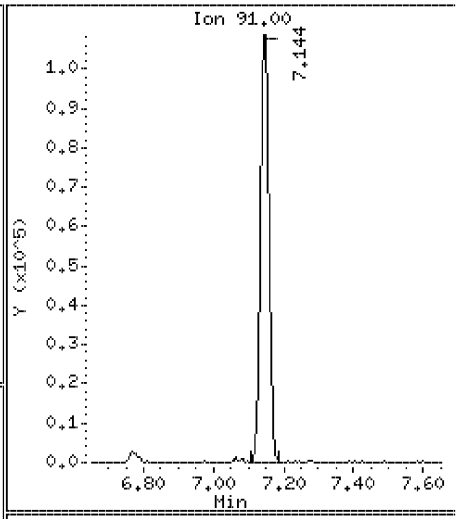
Column phase: J&W DB-5

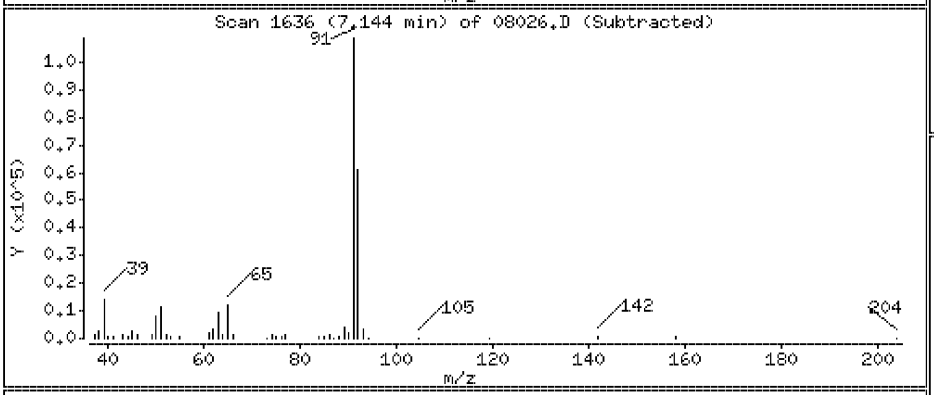
Column diameter: 0.32

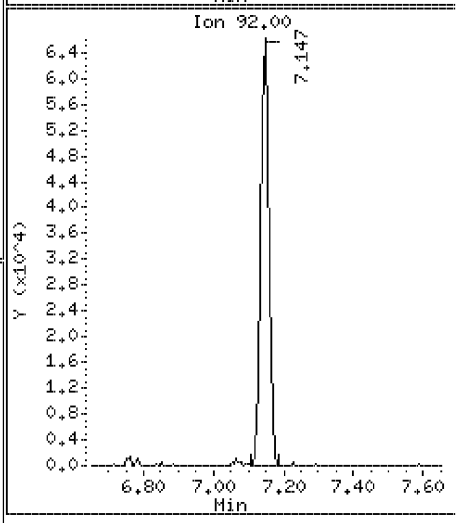
61 Toluene

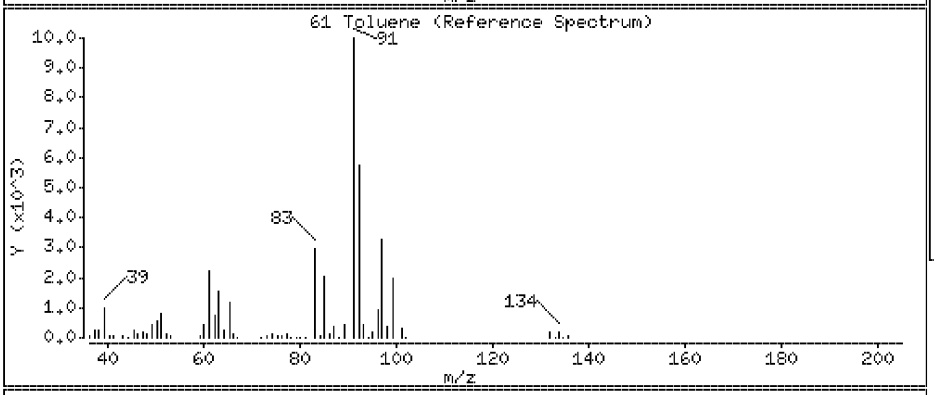
Concentration: 1.34 ppbv

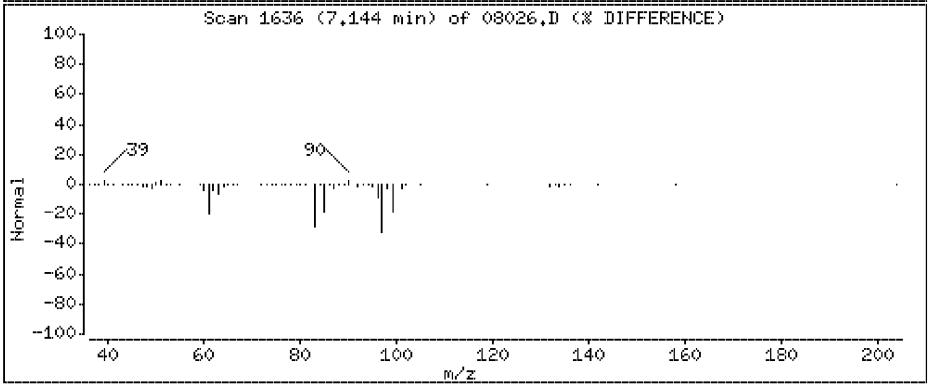












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

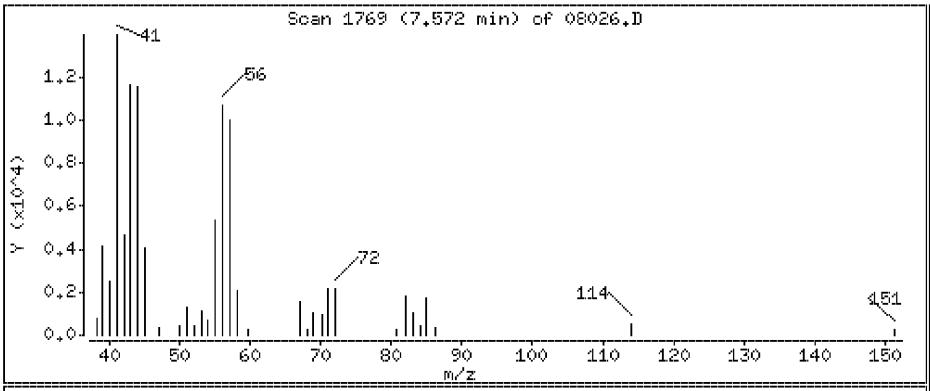
Operator: NCK

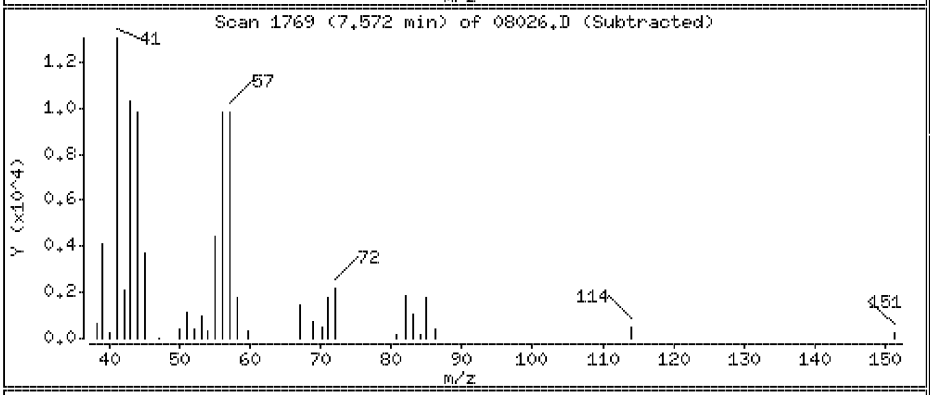
Column phase: J&W DB-5

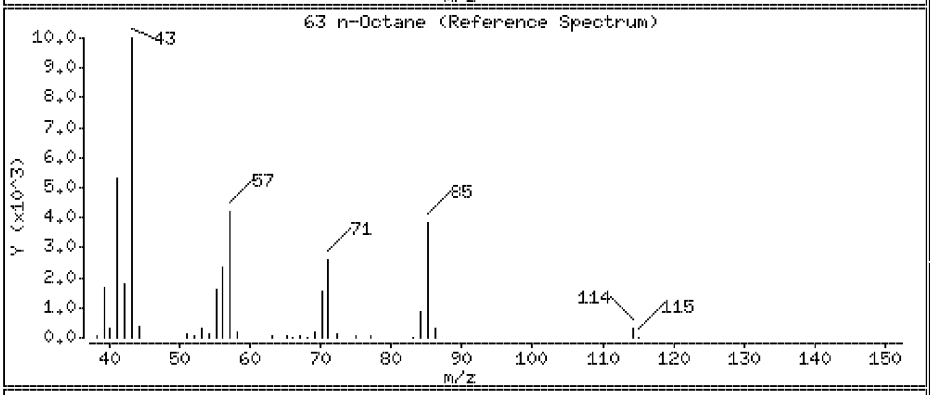
Column diameter: 0.32

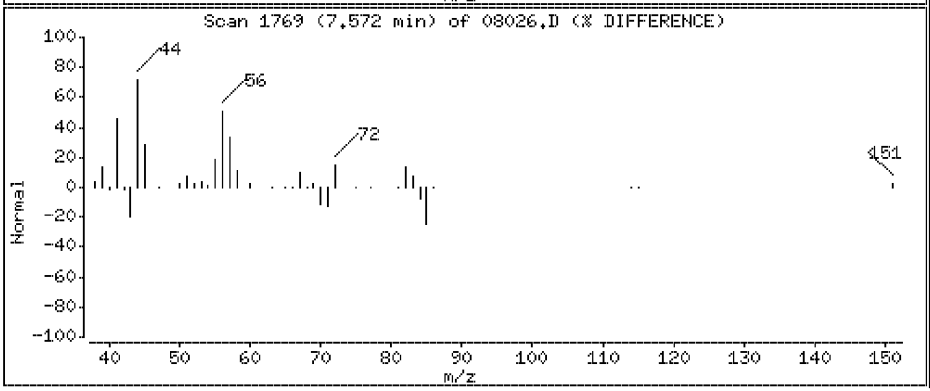
63 n-Octane

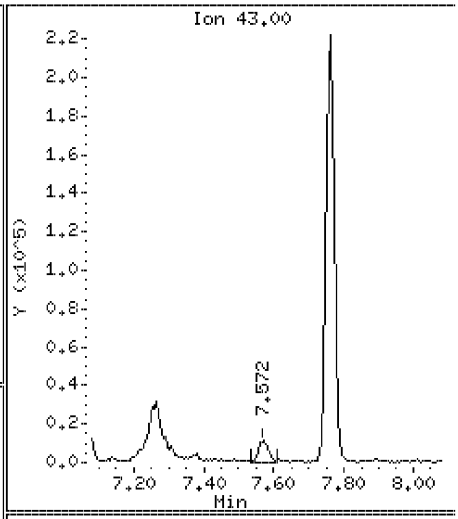
Concentration: 0.208 ppbv

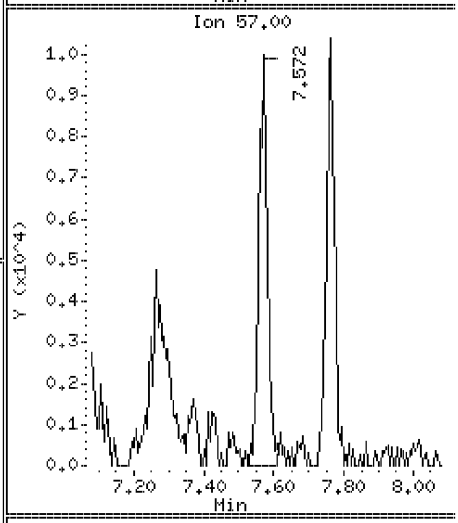


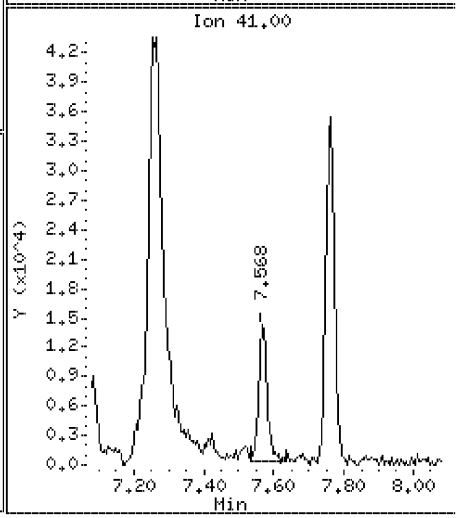












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

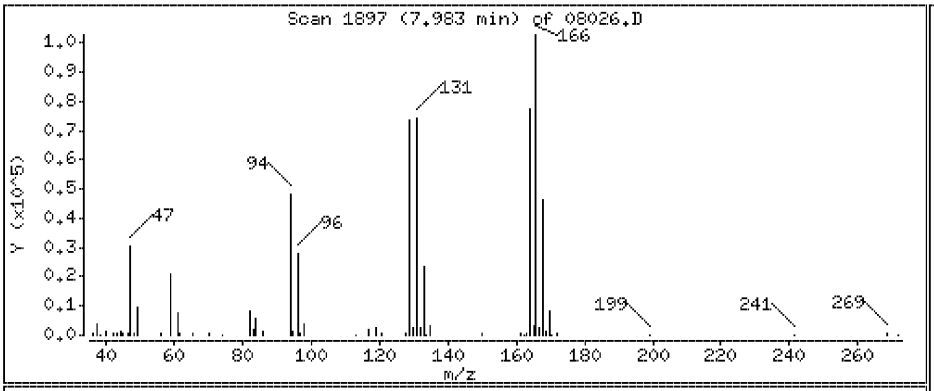
Operator: NCK

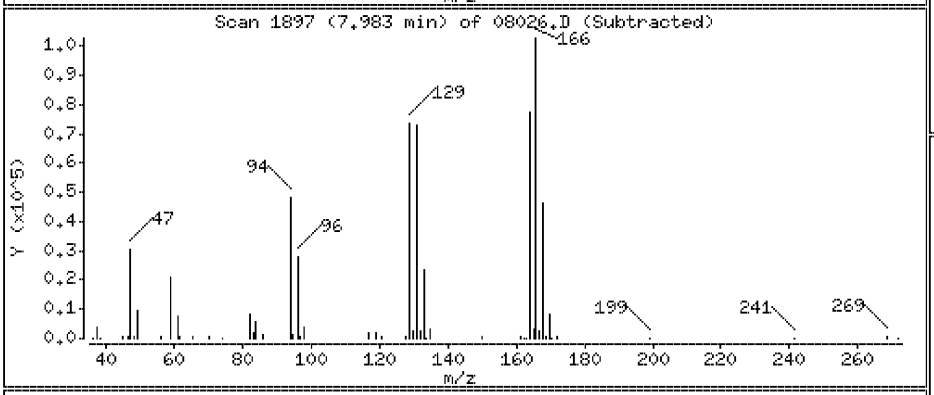
Column phase: J&W DB-5

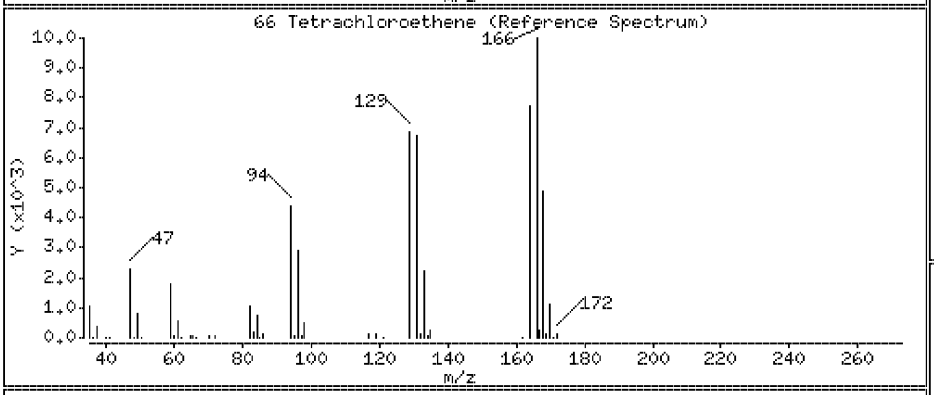
Column diameter: 0.32

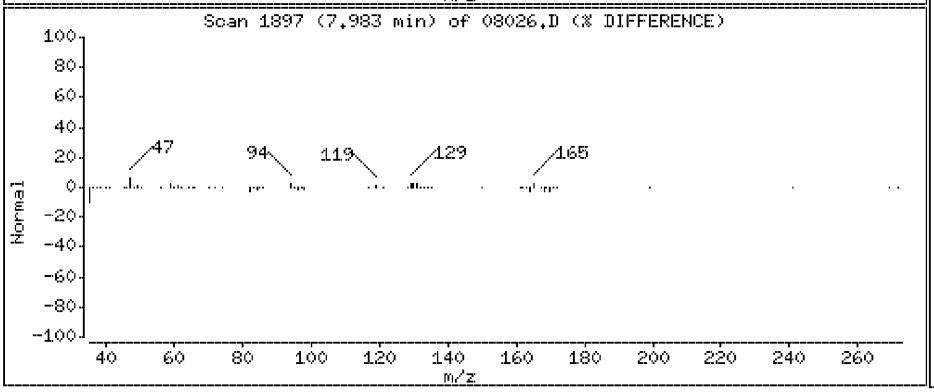
66 Tetrachloroethene

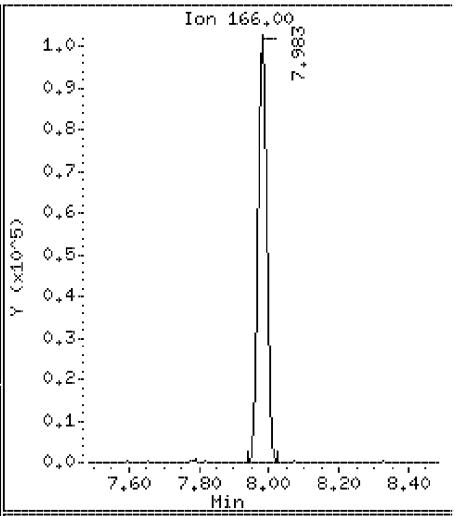
Concentration: 2.89 ppbv

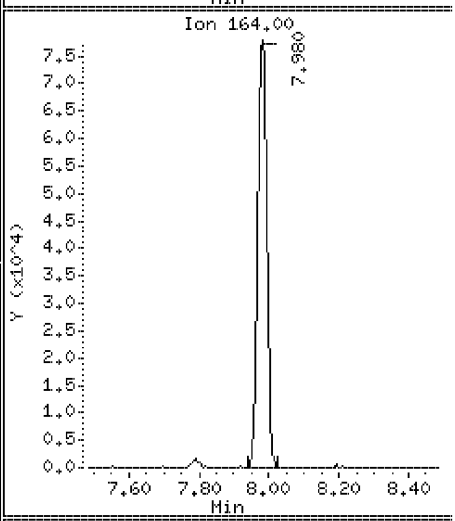


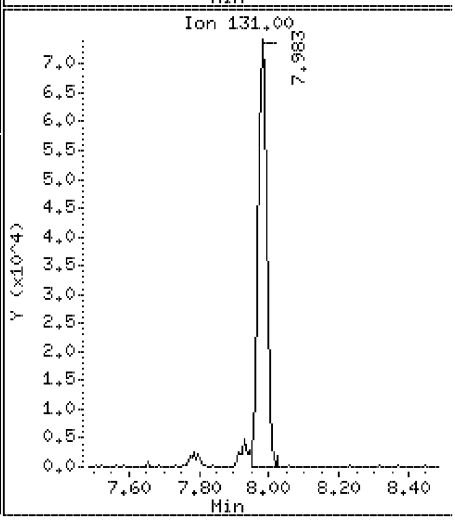












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

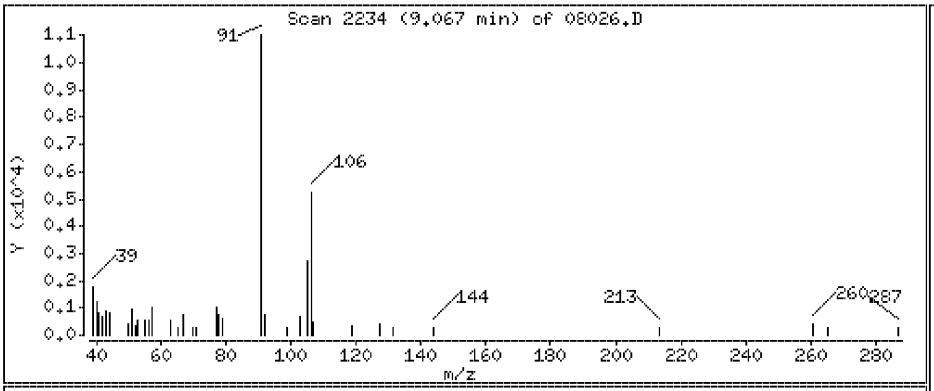
Operator: NCK

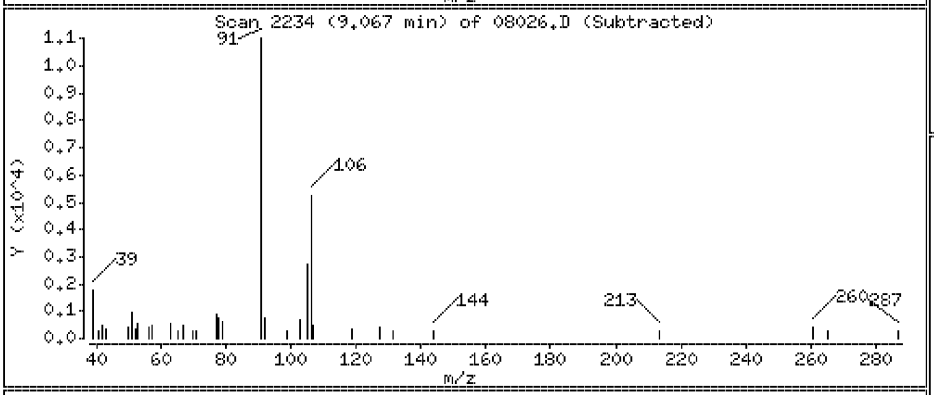
Column phase: J&W DB-5

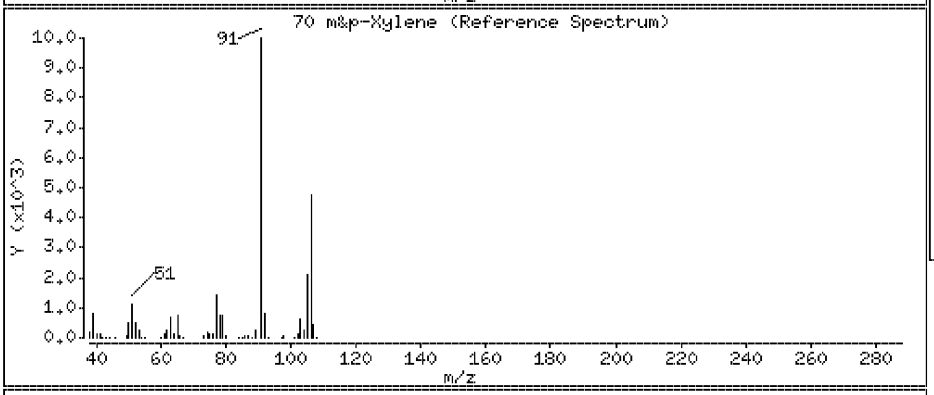
Column diameter: 0.32

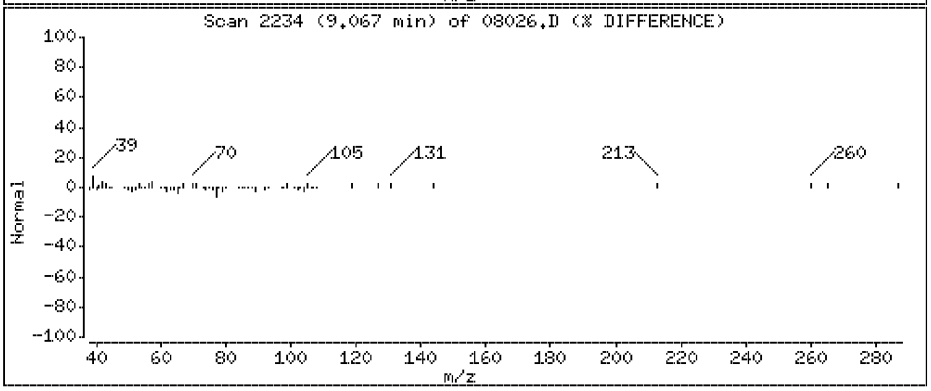
70 m&p-Xylene

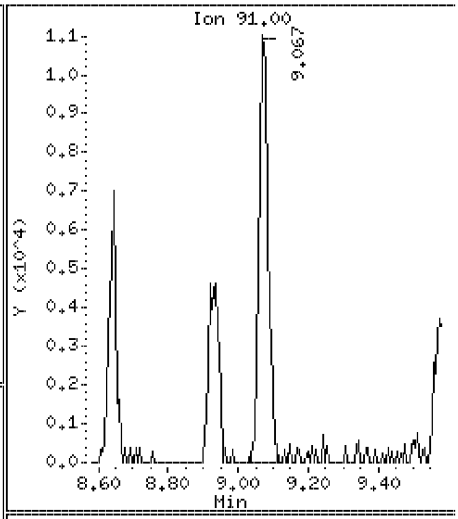
Concentration: 0.408 ppbv

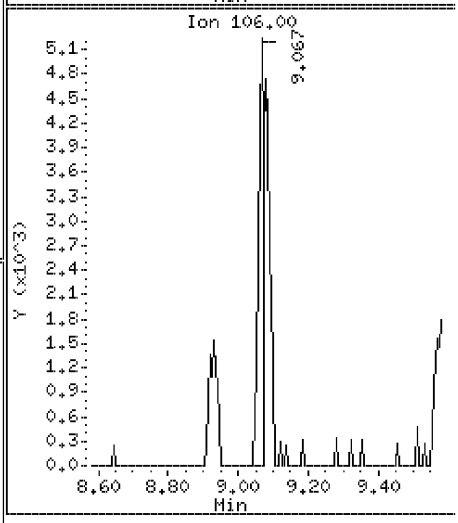












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

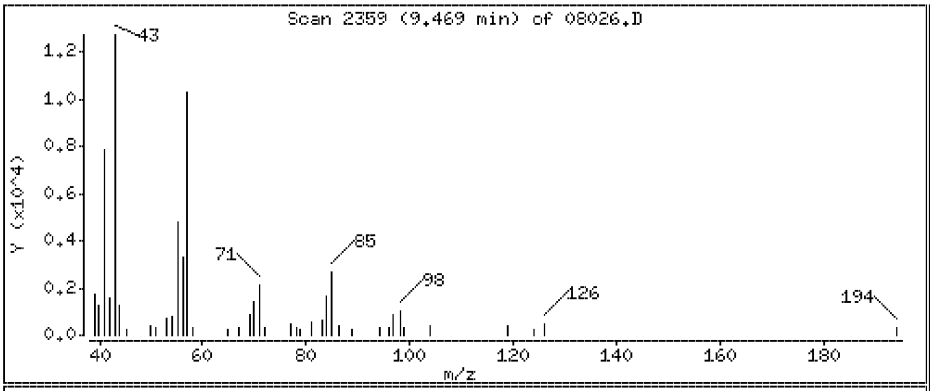
Operator: NCK

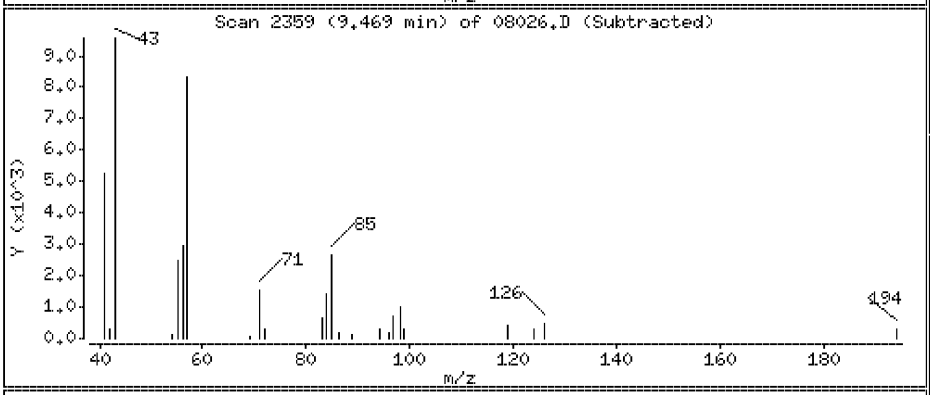
Column phase: J&W DB-5

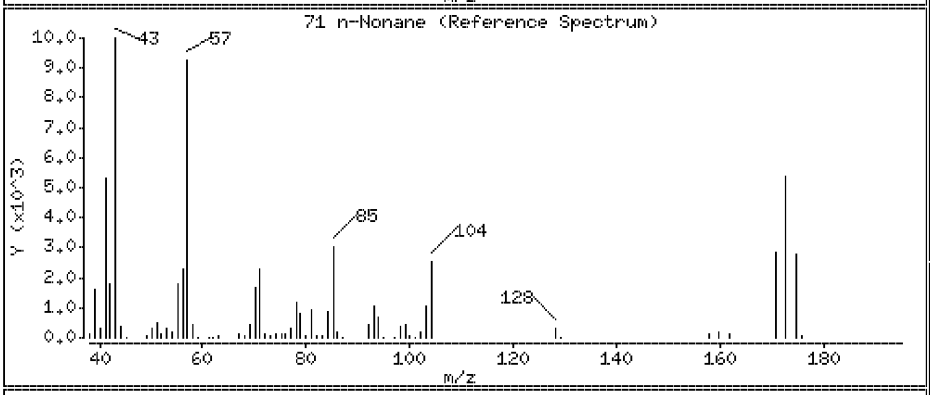
Column diameter: 0.32

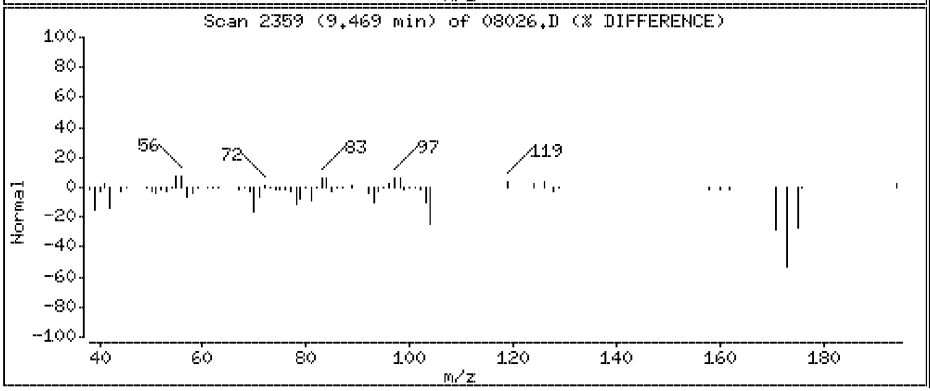
71 n-Nonane

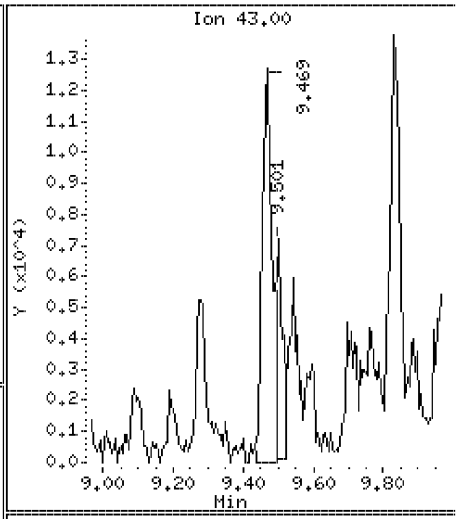
Concentration: 0.305 ppbv

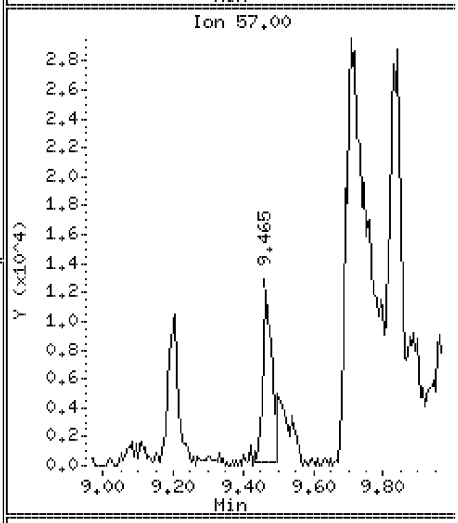


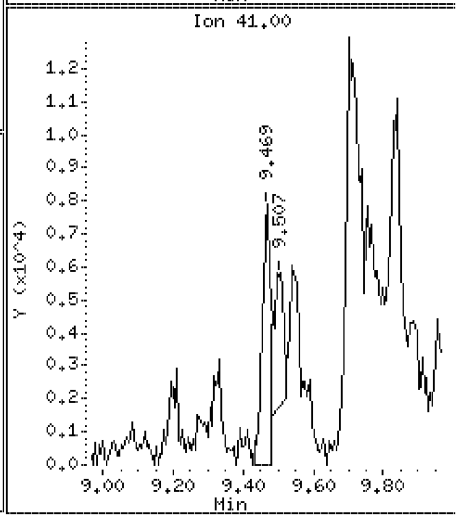












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

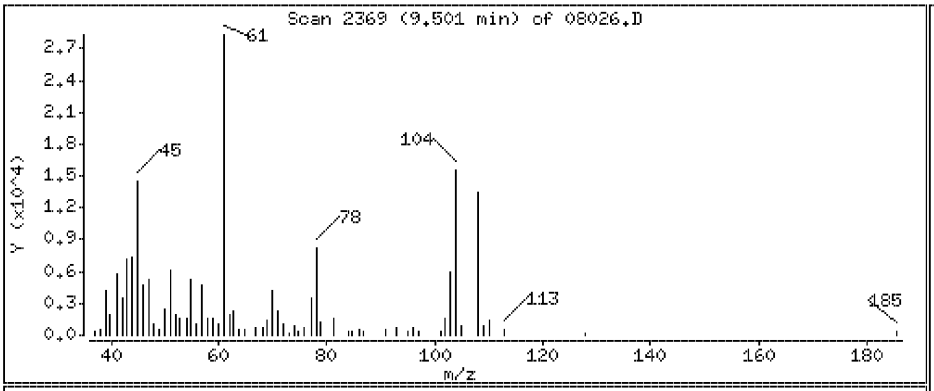
Operator: NCK

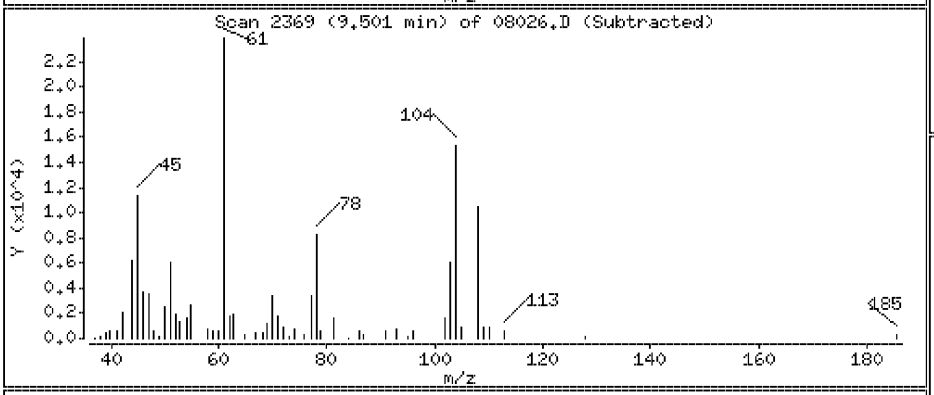
Column phase: J&W DB-5

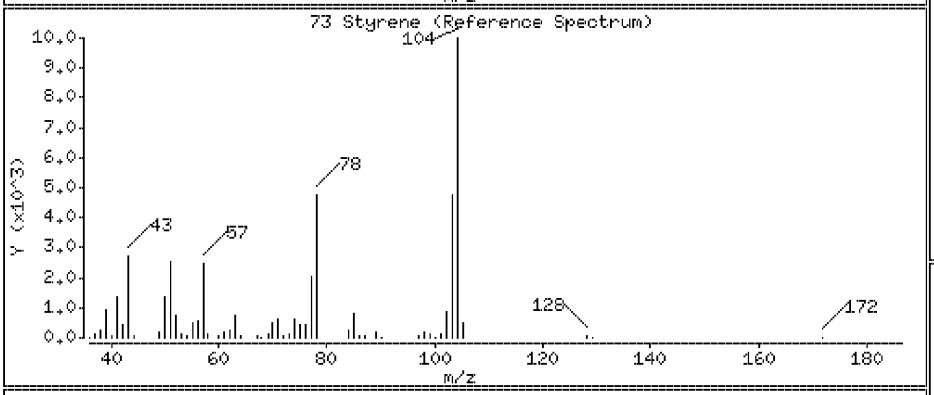
Column diameter: 0.32

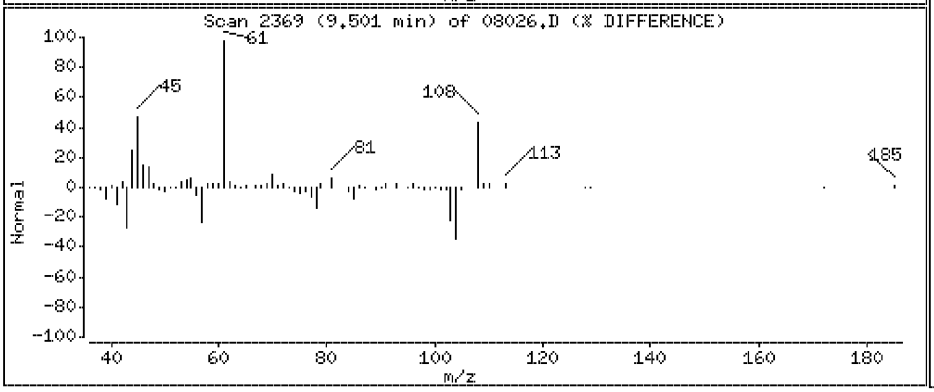
73 Styrene

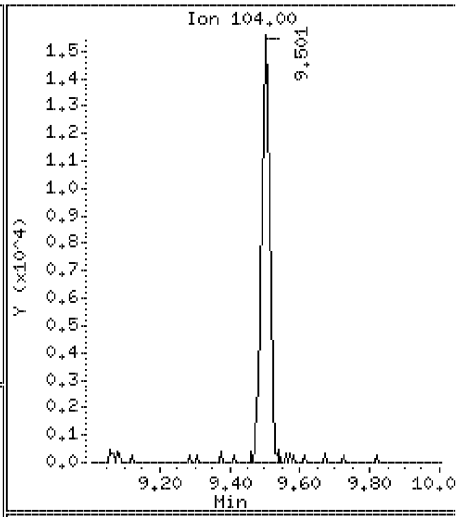
Concentration: 0.447 ppbv

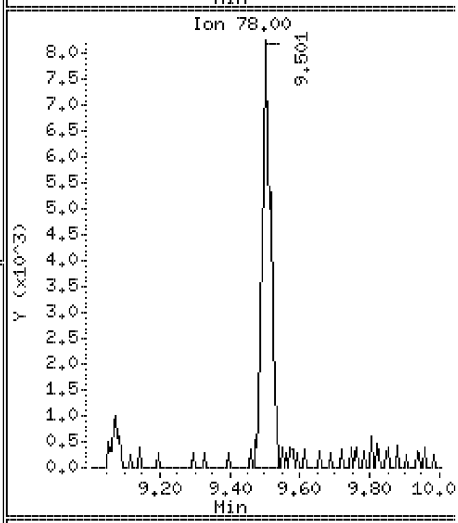


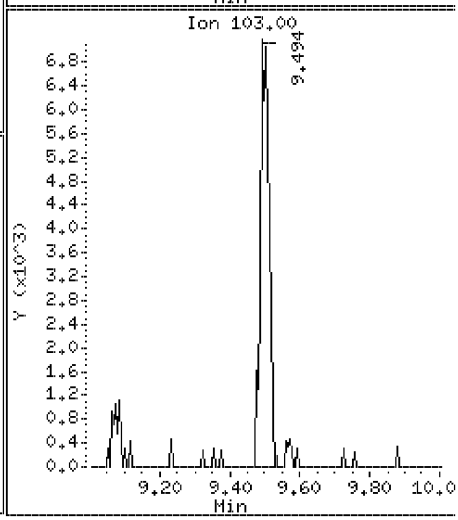












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

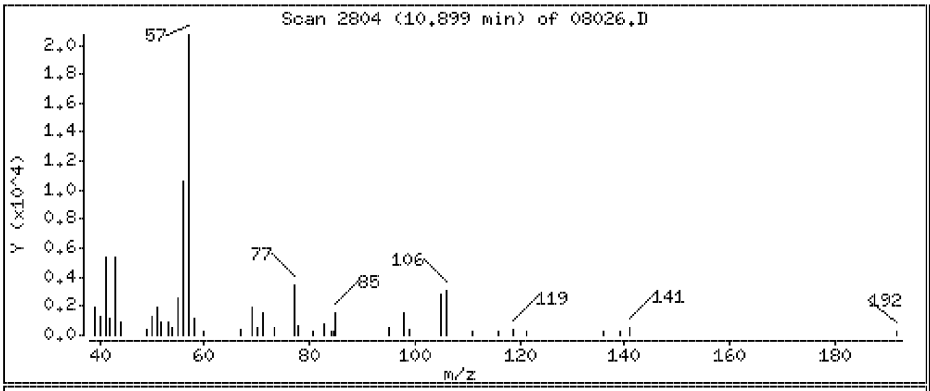
Operator: NCK

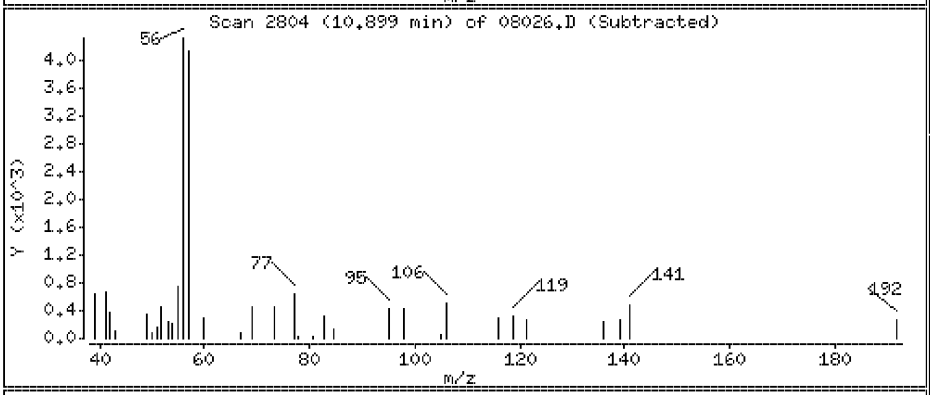
Column phase: J&W DB-5

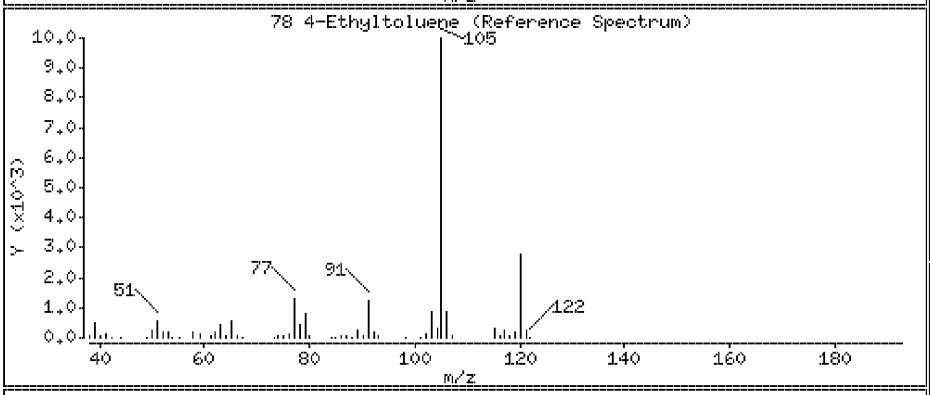
Column diameter: 0.32

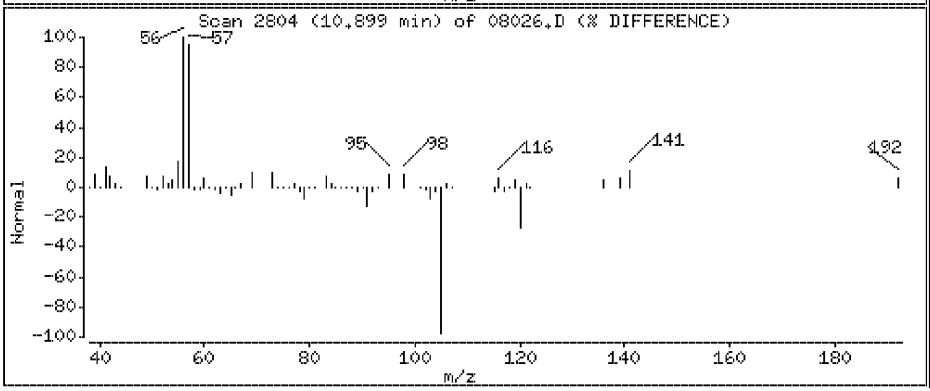
78 4-Ethyltoluene

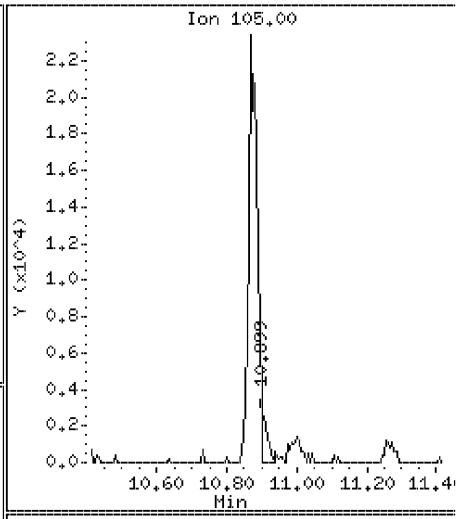
Concentration: 0.274 ppbv

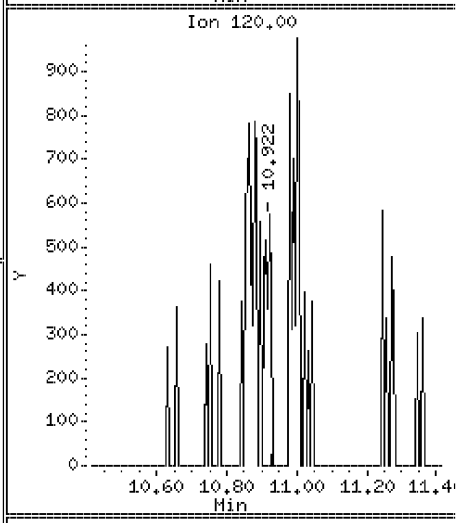


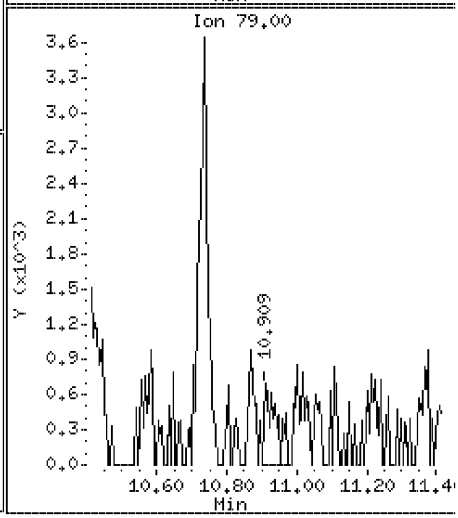












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

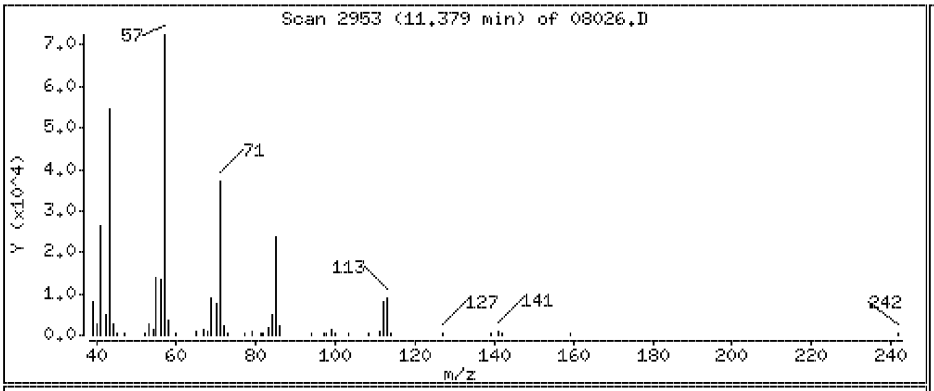
Operator: NCK

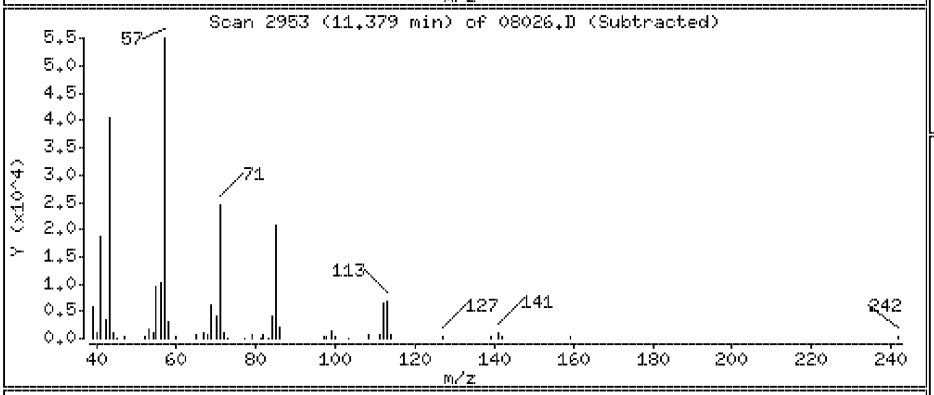
Column phase: J&W DB-5

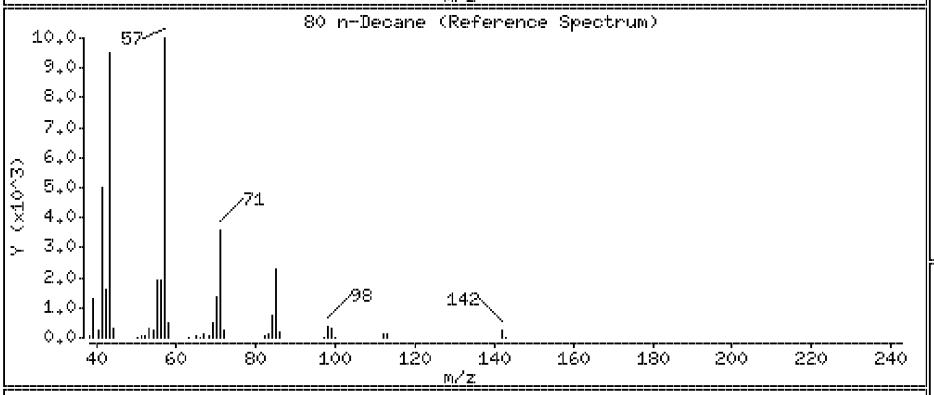
Column diameter: 0.32

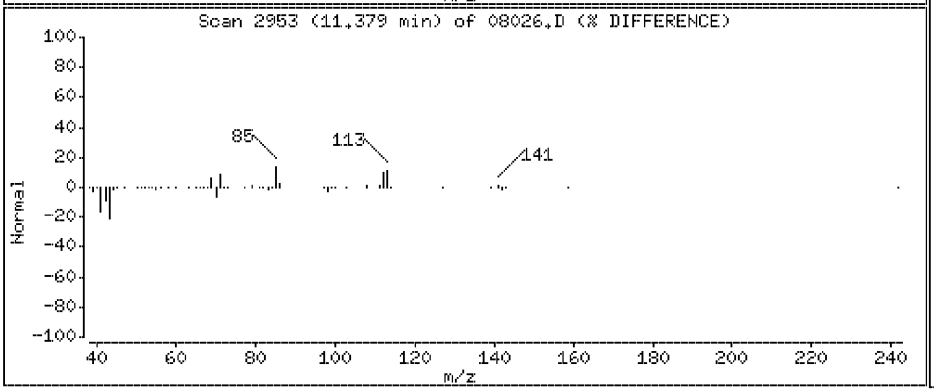
80 n-Decane

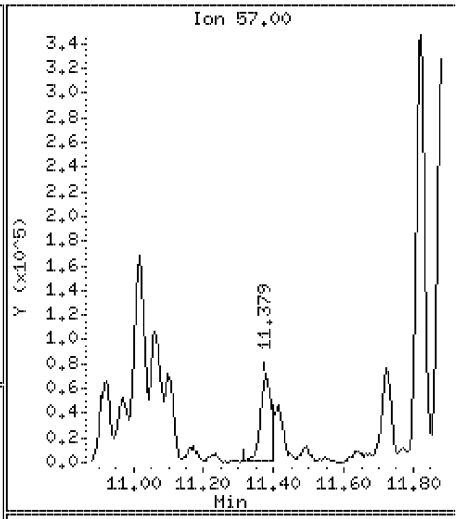
Concentration: 1.84 ppbv

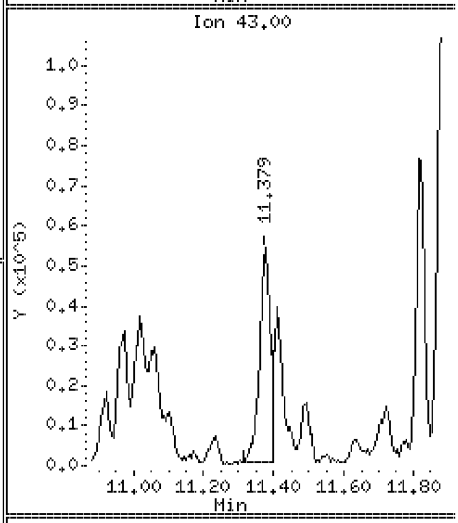


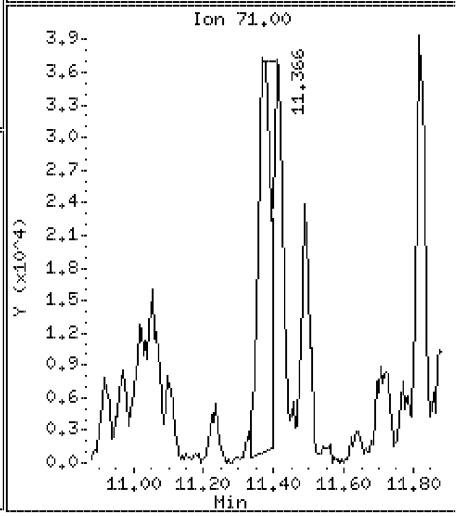












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

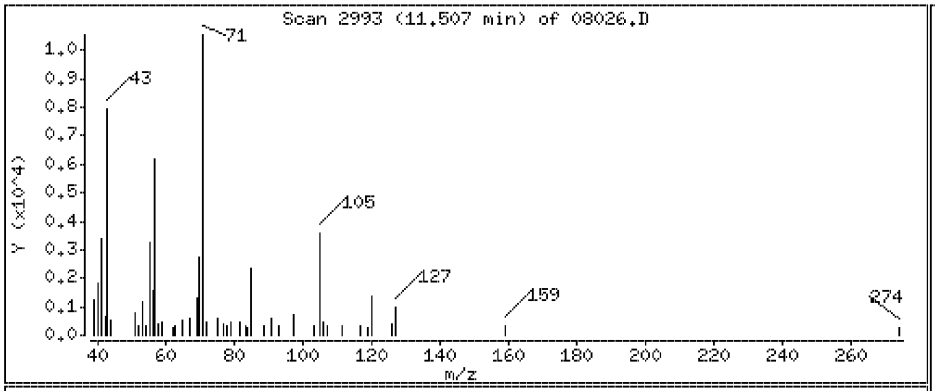
Operator: NCK

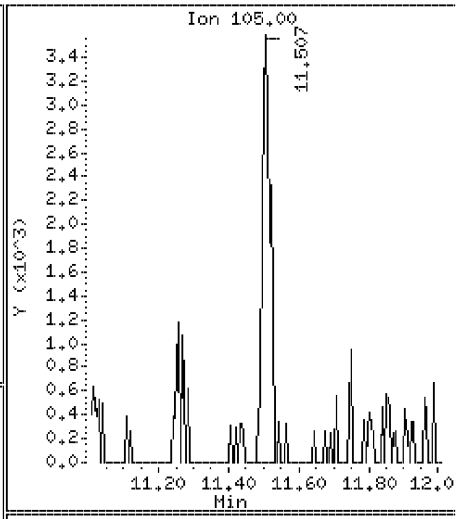
Column phase: J&W DB-5

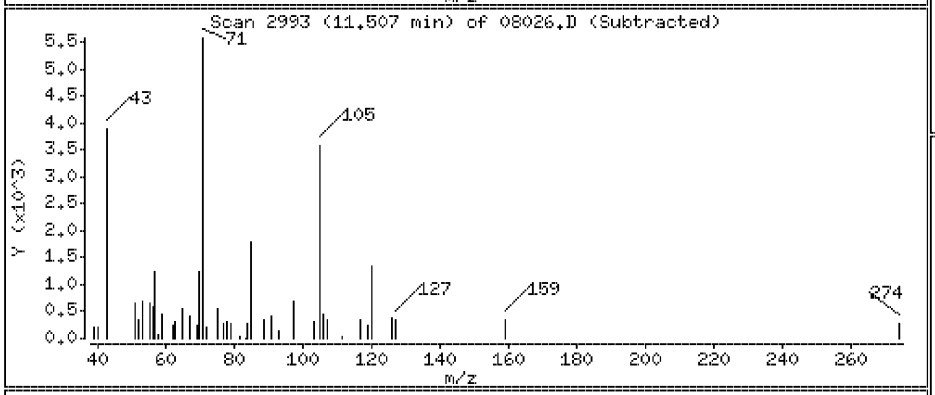
Column diameter: 0.32

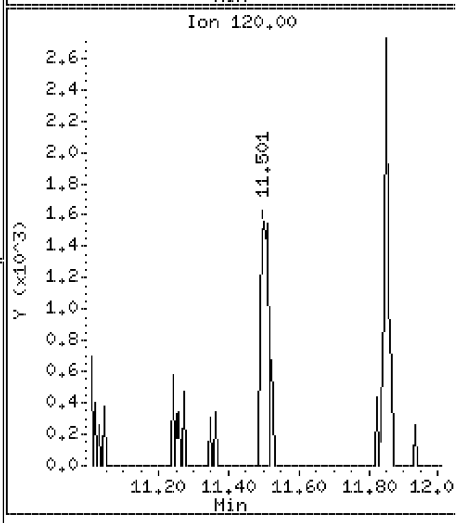
82 1,2,4-Trimethylbenzene

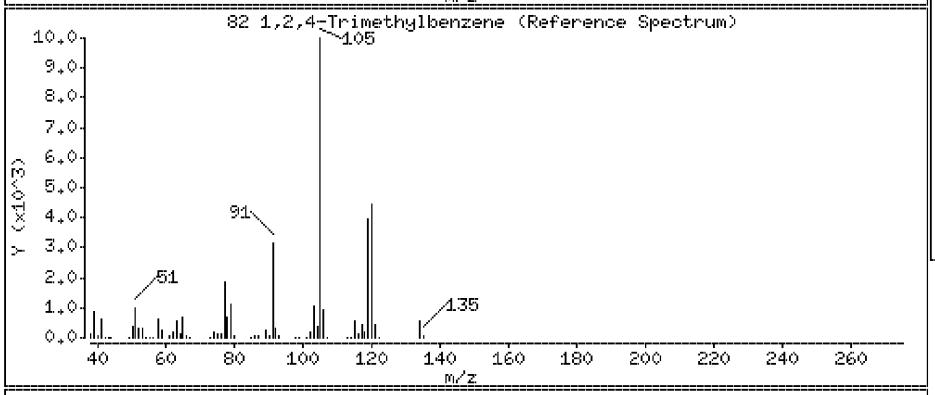
Concentration: 0.249 ppbv

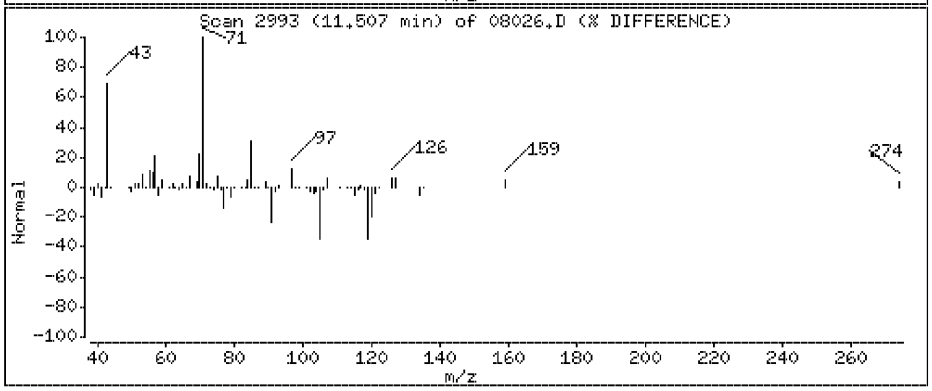












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

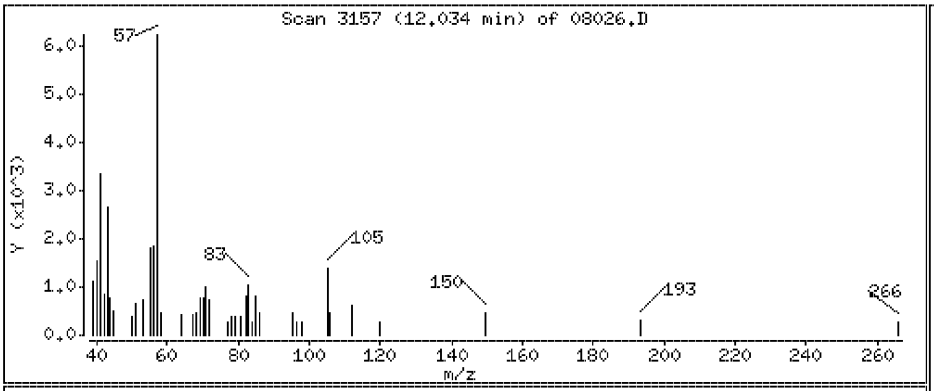
Operator: NCK

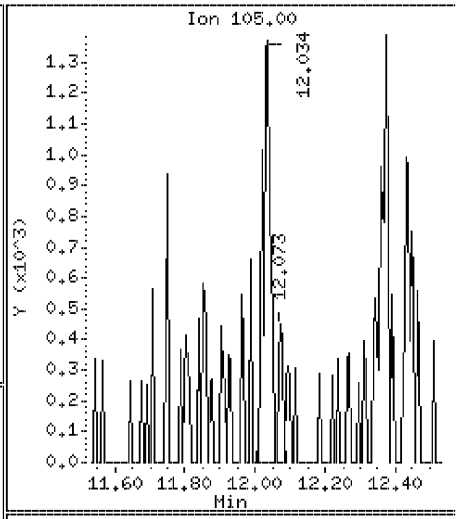
Column phase: J&W DB-5

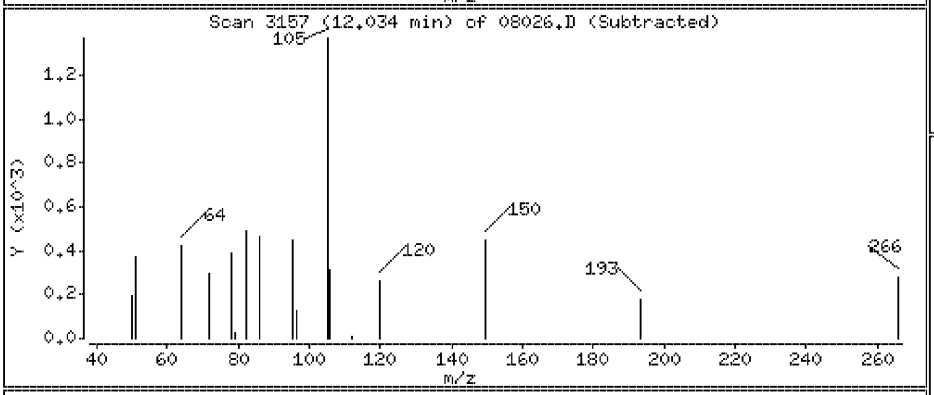
Column diameter: 0.32

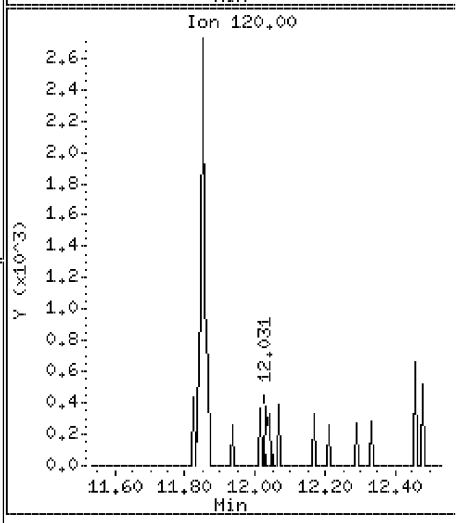
89 1,2,3-Trimethylbenzene

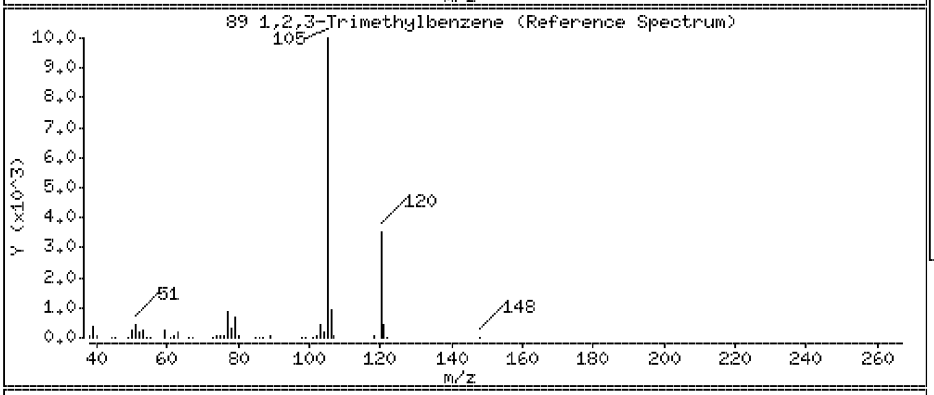
Concentration: 0.251 ppbv

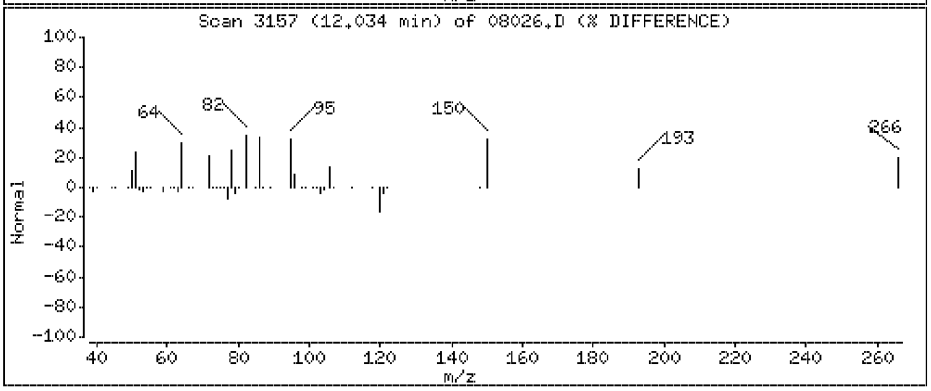












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08026.D

Date : 21-MAR-2017 21:31

Client ID:

Instrument: 10airB.i

Sample Info:

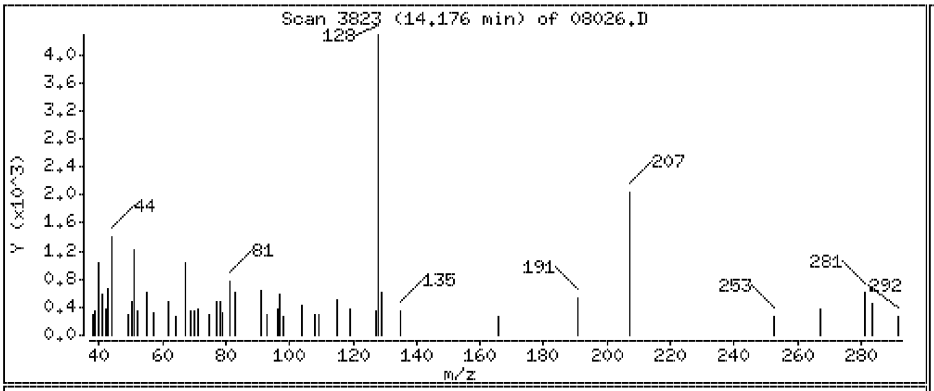
Operator: NCK

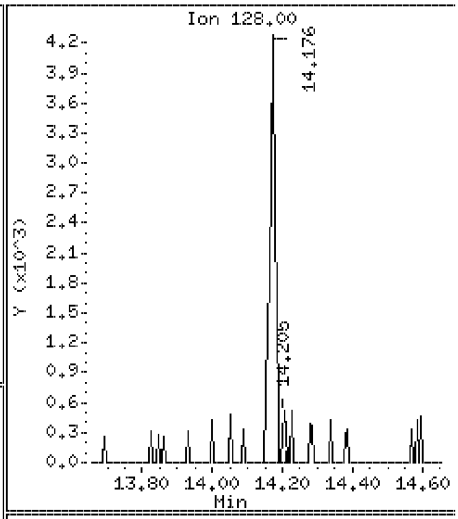
Column phase: J&W DB-5

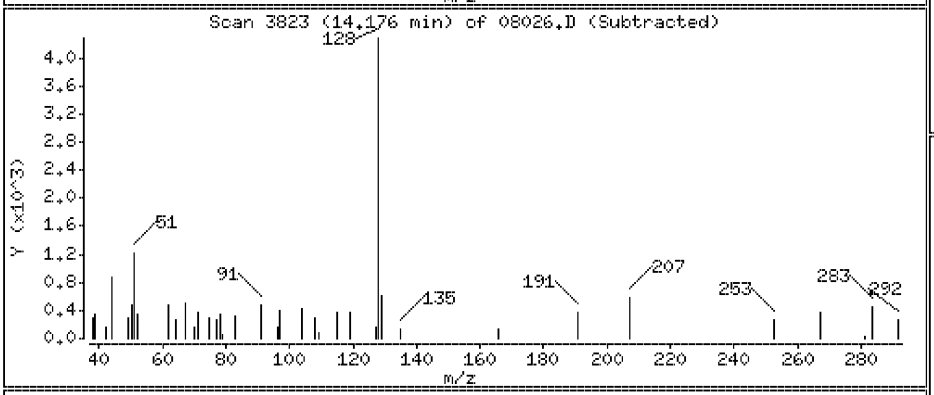
Column diameter: 0.32

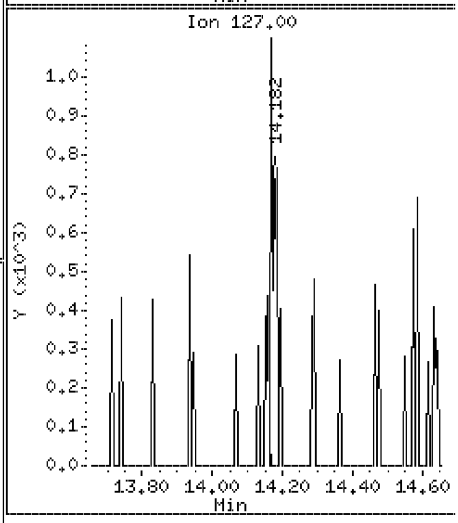
94 Naphthalene

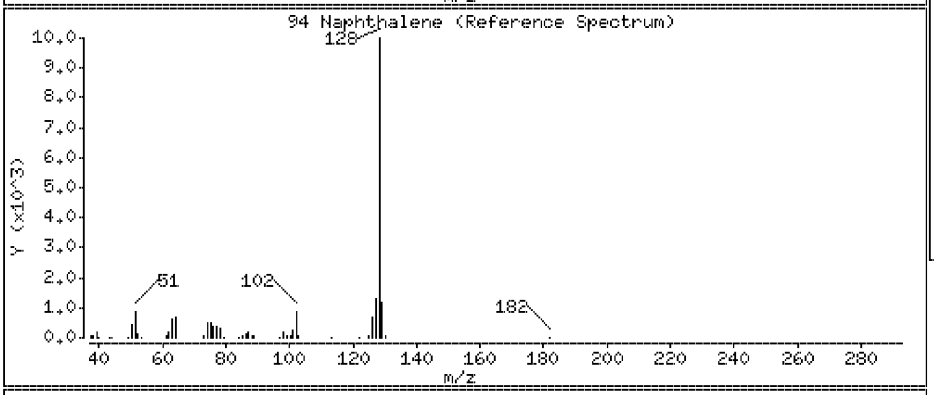
Concentration: 0.735 ppbv

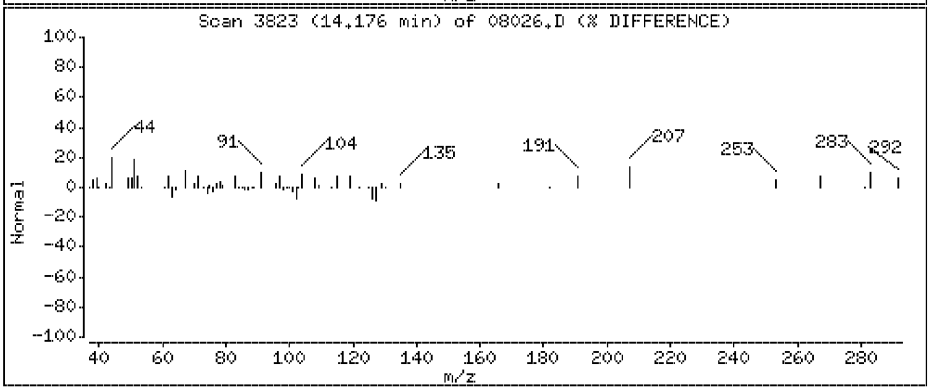






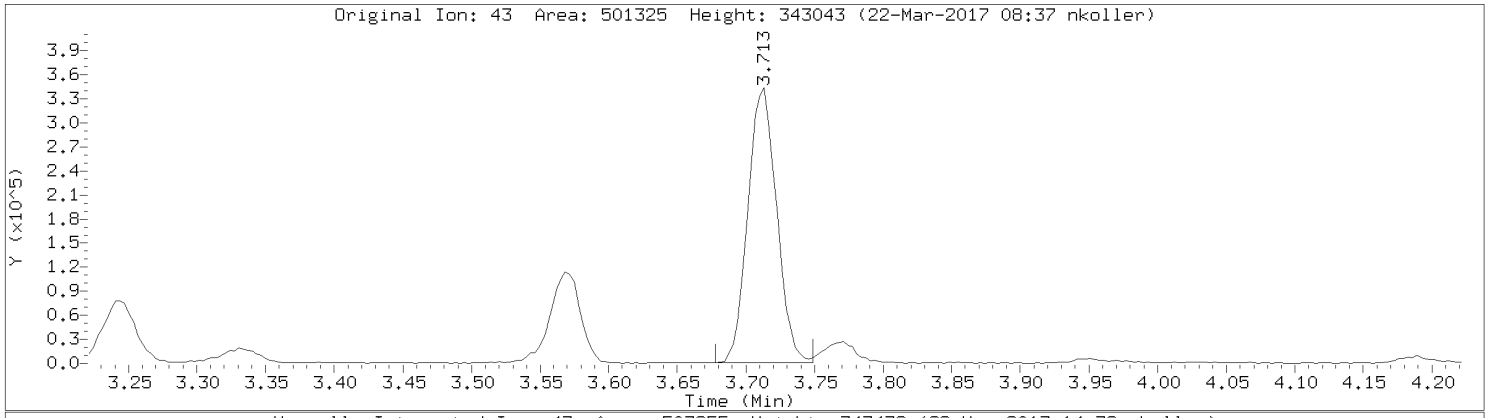


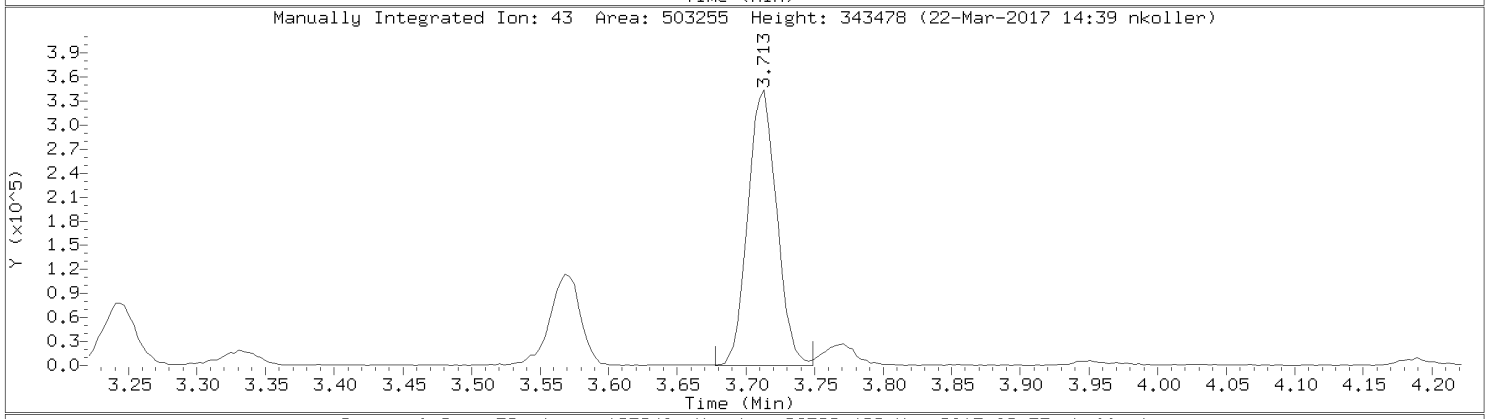


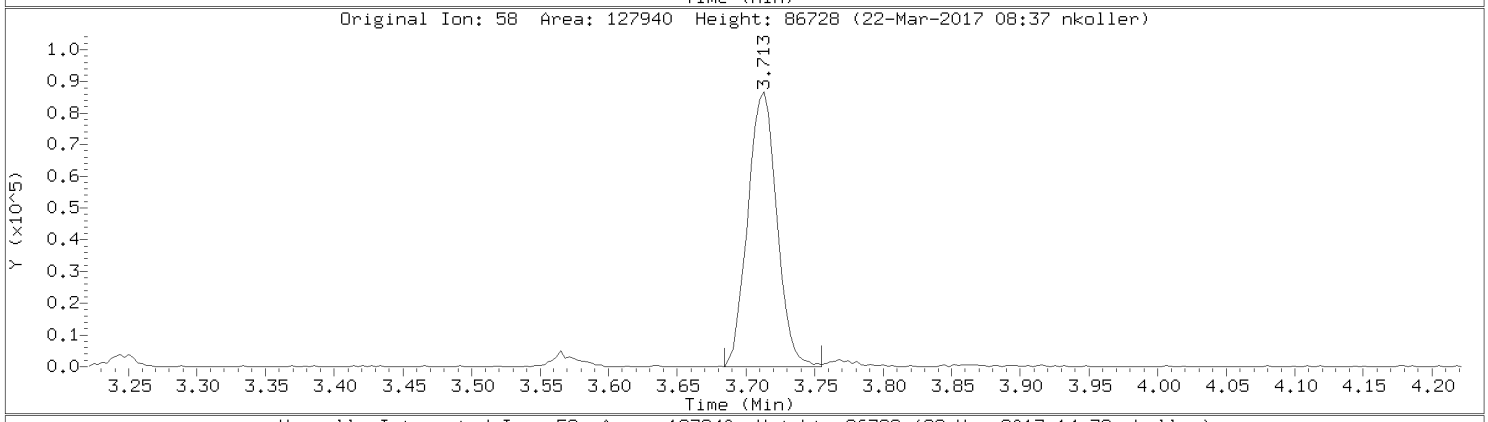


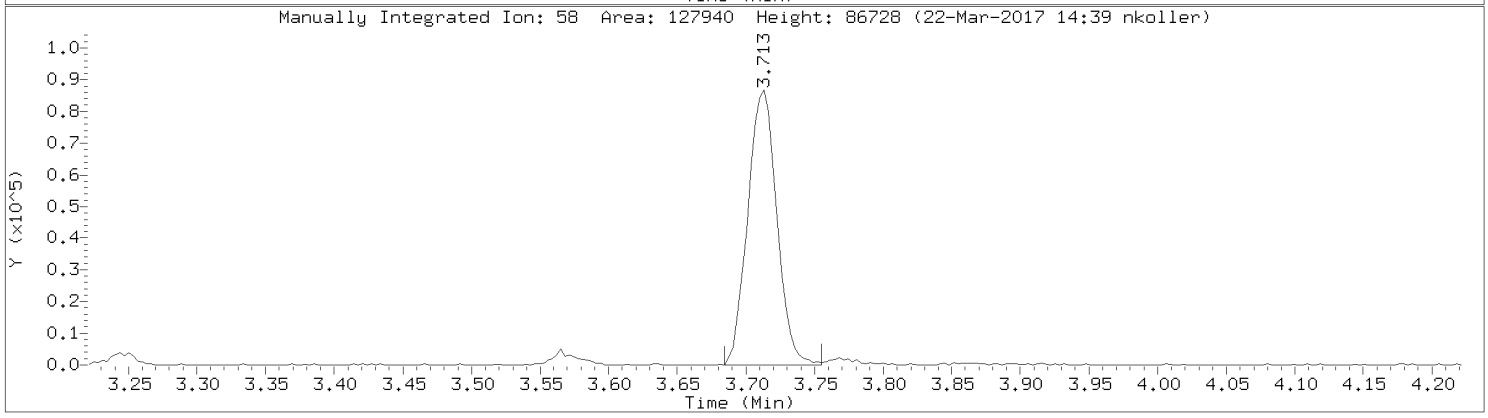
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08026.D
Injection Date: 21-MAR-2017 21:31
Instrument: 10airB.i
Lab Sample ID: 10381035015

Compound: Acetone
CAS Number: 67-64-1



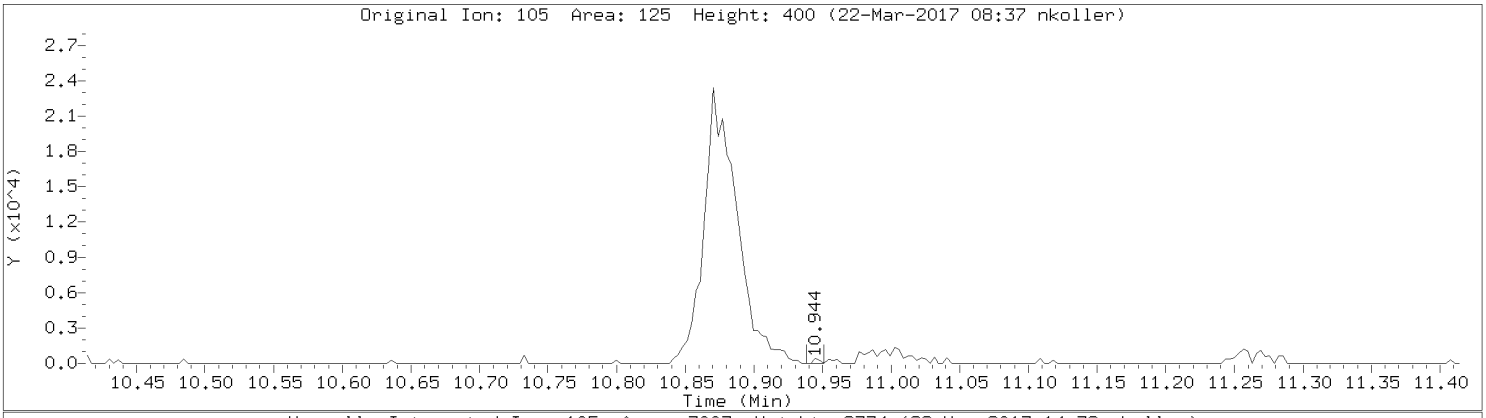


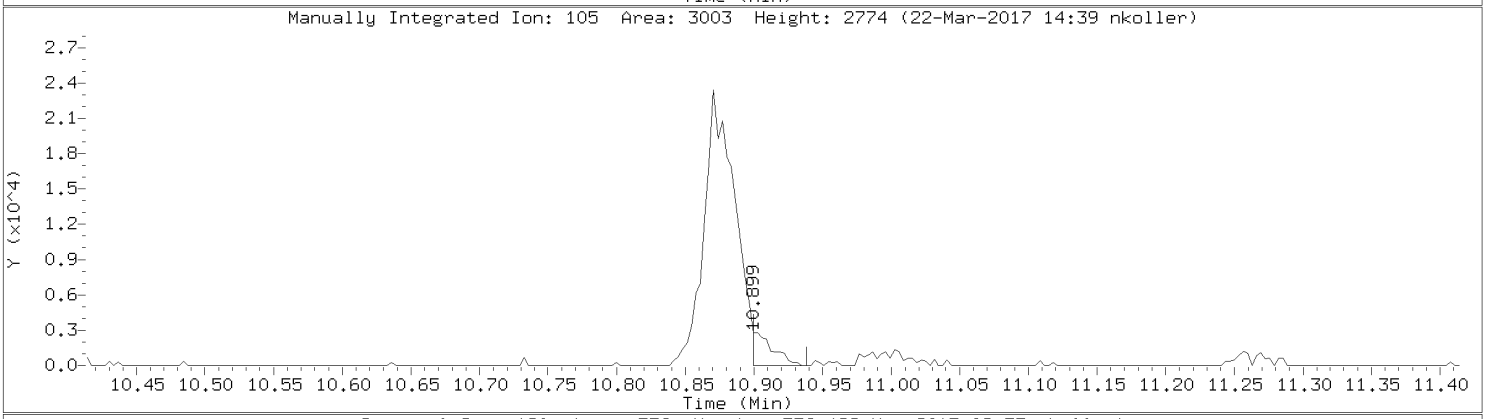


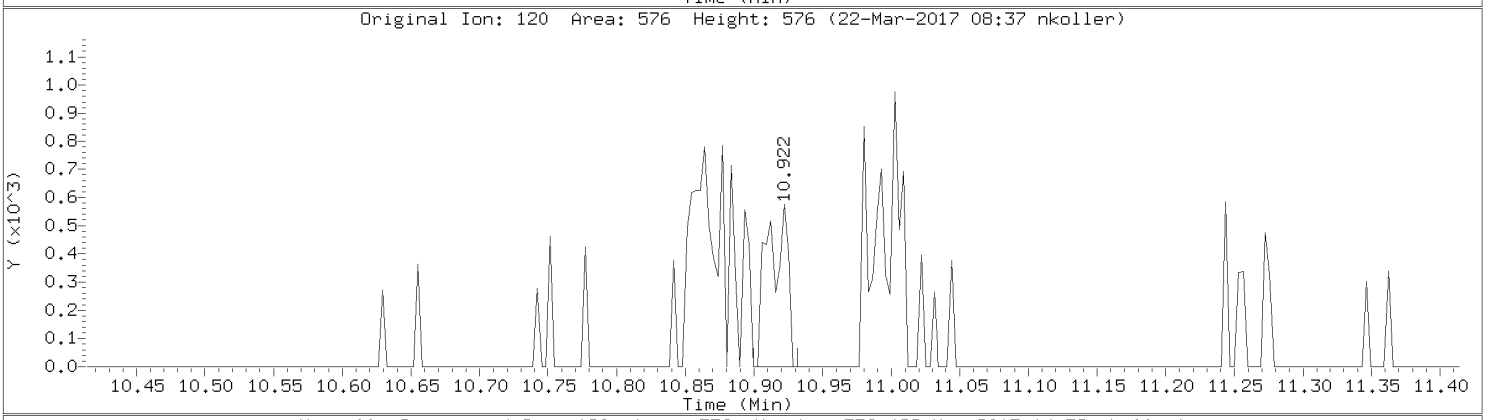


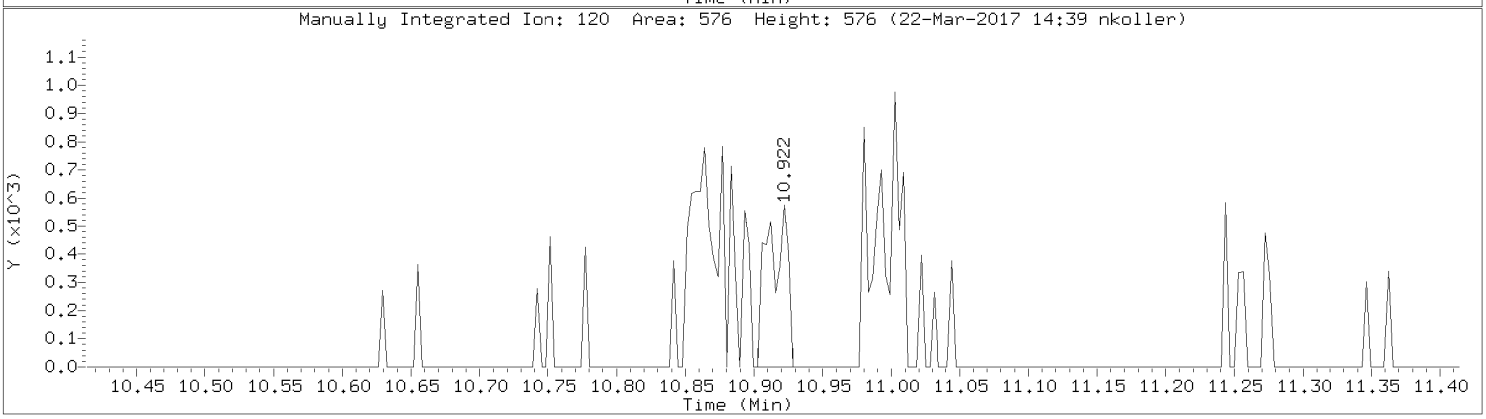
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08026.D
Injection Date: 21-MAR-2017 21:31
Instrument: 10airB.i
Lab Sample ID: 10381035015

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

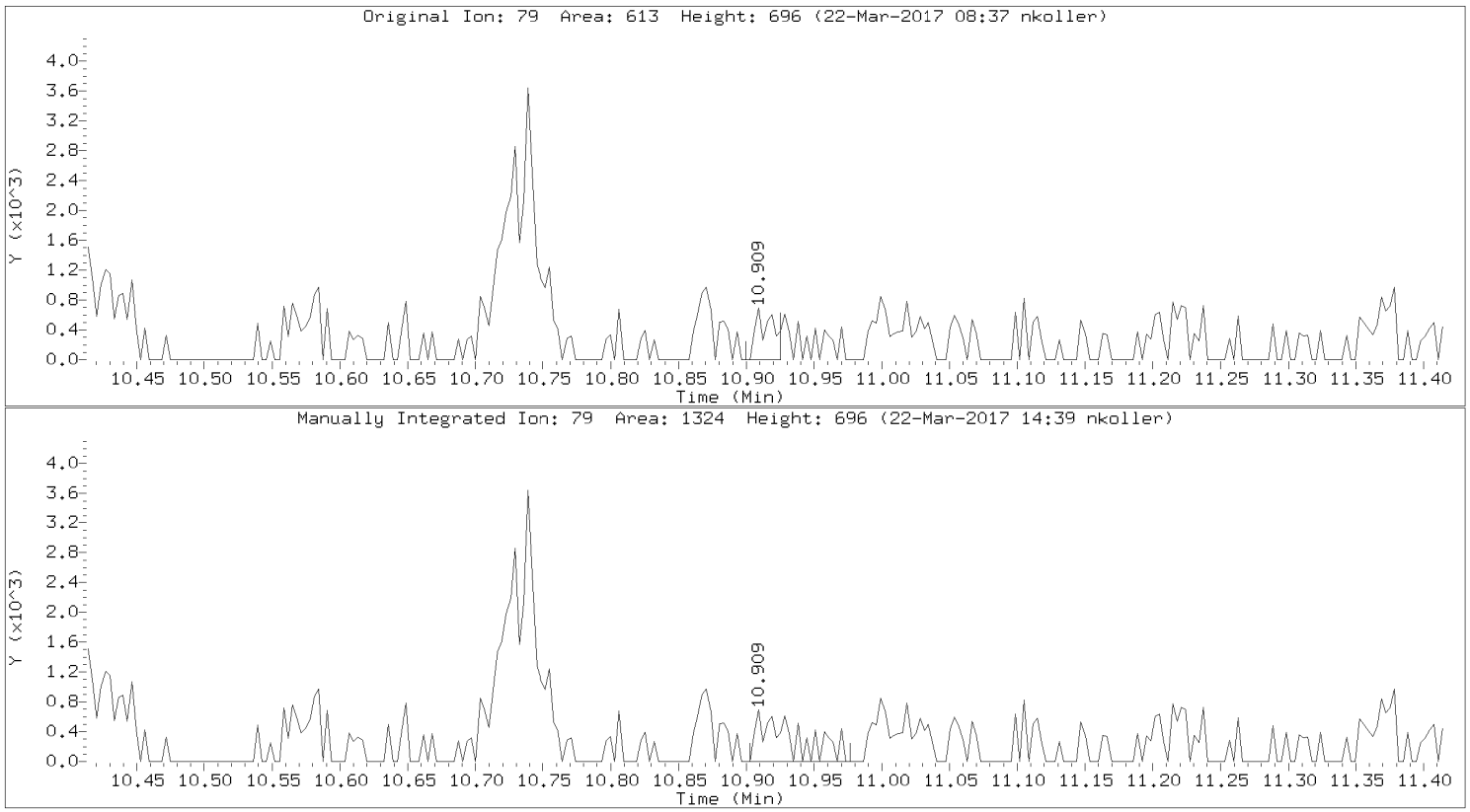






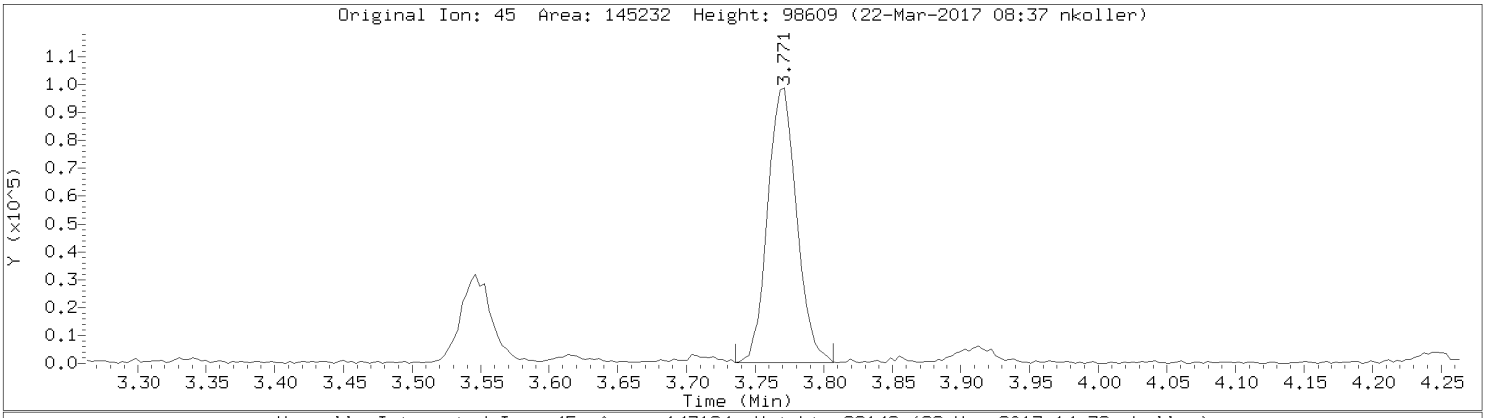


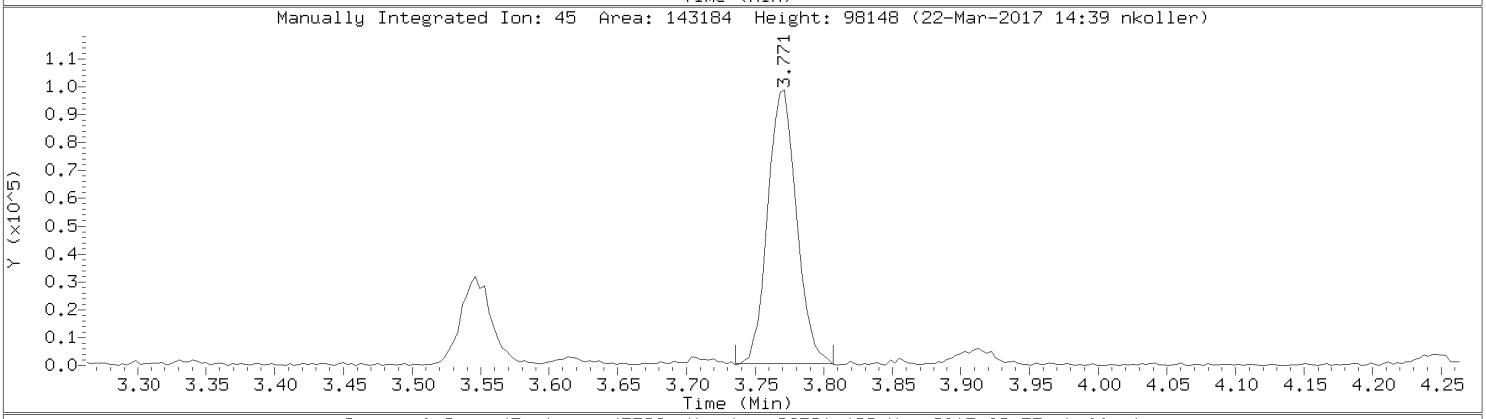
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08026.D
Injection Date: 21-MAR-2017 21:31
Instrument: 10airB.i
Lab Sample ID: 10381035015

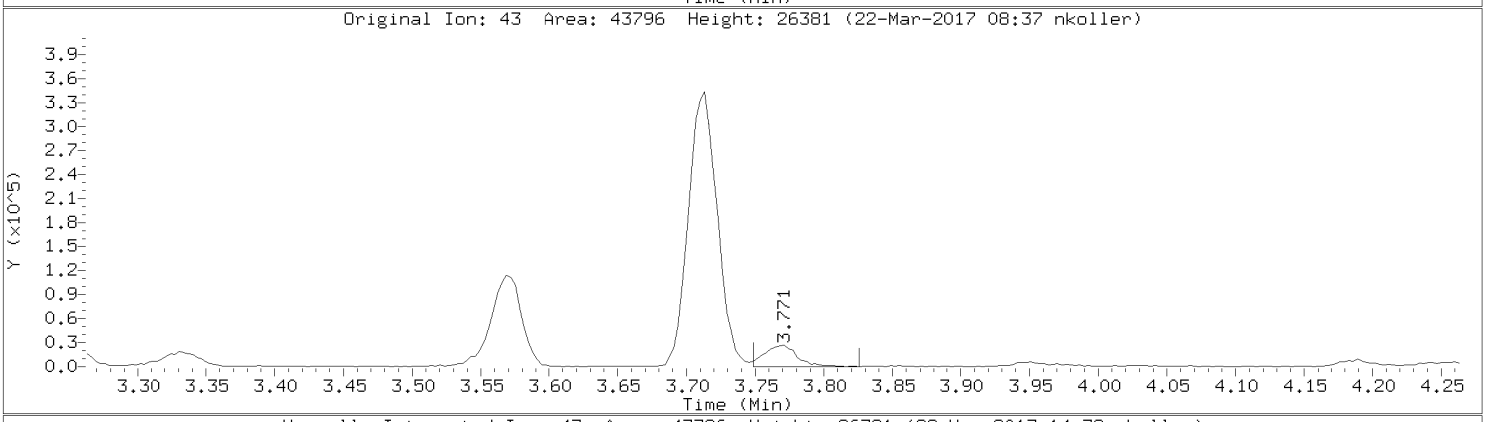


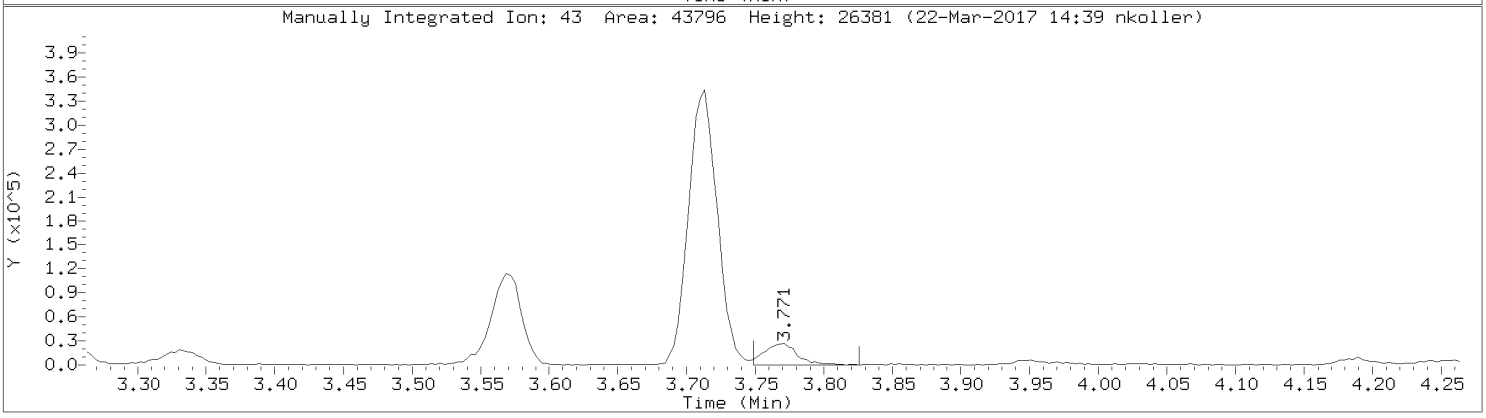
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08026.D
Injection Date: 21-MAR-2017 21:31
Instrument: 10airB.i
Lab Sample ID: 10381035015

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_19.5_20170302 **Lab ID: 10381035015** Collected: 03/02/17 12:49 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.1**	ug/m3	4.0	0.39	1.61		03/21/17 21:31	67-63-0	
Styrene	**1.9**	ug/m3	1.4	0.31	1.61		03/21/17 21:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.53**	ug/m3	2.2	0.53	1.61		03/21/17 21:31	79-34-5	
Tetrachloroethene	**19.9**	ug/m3	1.1	0.45	1.61		03/21/17 21:31	127-18-4	
Toluene	**5.1**	ug/m3	1.2	0.25	1.61		03/21/17 21:31	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.1	1.5	1.61		03/21/17 21:31	120-82-1	
1,1,1-Trichloroethane	**<0.40**	ug/m3	1.8	0.40	1.61		03/21/17 21:31	71-55-6	
1,1,2-Trichloroethane	**<0.40**	ug/m3	0.89	0.40	1.61		03/21/17 21:31	79-00-5	
Trichloroethene	**8.0**	ug/m3	0.89	0.44	1.61		03/21/17 21:31	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	1.8	0.21	1.61		03/21/17 21:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.84J**	ug/m3	2.6	0.48	1.61		03/21/17 21:31	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.6	0.20	1.61		03/21/17 21:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.29**	ug/m3	1.6	0.29	1.61		03/21/17 21:31	108-67-8	
Vinyl chloride	**<0.31**	ug/m3	0.42	0.31	1.61		03/21/17 21:31	75-01-4	
m&p-Xylene	**1.8J**	ug/m3	2.8	1.3	1.61		03/21/17 21:31	179601-23-1	
o-Xylene	**<0.57**	ug/m3	1.4	0.57	1.61		03/21/17 21:31	95-47-6	

Sample: VP-106_28_20170302 **Lab ID: 10381035016** Collected: 03/02/17 12:15 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**28.1**	ug/m3	4.2	1.5	1.75		03/21/17 22:35	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 22:35	107-05-1	
Benzene	**0.54J**	ug/m3	0.57	0.21	1.75		03/21/17 22:35	71-43-2	
Bromodichloromethane	**2.1J**	ug/m3	2.4	0.34	1.75		03/21/17 22:35	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 22:35	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 22:35	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 22:35	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 22:35	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 22:35	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 22:35	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 22:35	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 22:35	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 22:35	75-00-3	
Chloroform	**6.4**	ug/m3	0.87	0.33	1.75		03/21/17 22:35	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 22:35	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 22:35	76-15-3	
Cyclohexane	**1.4**	ug/m3	1.2	0.55	1.75		03/21/17 22:35	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 22:35	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 22:35	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 22:35	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 22:35	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 22:35	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_28_20170302 **Lab ID: 10381035016** Collected: 03/02/17 12:15 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**1.6J**	ug/m3	2.1	0.87	1.75		03/21/17 22:35	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 22:35	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 22:35	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 22:35	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 22:35	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/21/17 22:35	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 22:35	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 22:35	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 22:35	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 22:35	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 22:35	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 22:35	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 22:35	123-91-1	
Ethylbenzene	**0.84J**	ug/m3	1.5	0.74	1.75		03/21/17 22:35	100-41-4	
4-Ethyltoluene	**2.3**	ug/m3	1.8	0.33	1.75		03/21/17 22:35	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 22:35	87-68-3	
n-Hexane	**33.8**	ug/m3	1.3	0.62	1.75		03/21/17 22:35	110-54-3	
n-Hexane	**17.7**	ug/m3	1.7	0.84	2.35		03/23/17 03:46	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 22:35	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 22:35	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 22:35	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 22:35	108-87-2	
Methylene Chloride	**122**	ug/m3	8.3	1.3	2.35		03/23/17 03:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 22:35	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 22:35	1634-04-4	
2-Propanol	**2.4J**	ug/m3	4.4	0.42	1.75		03/21/17 22:35	67-63-0	
Styrene	**1.2J**	ug/m3	1.5	0.34	1.75		03/21/17 22:35	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 22:35	79-34-5	
Tetrachloroethene	**26.7**	ug/m3	1.2	0.49	1.75		03/21/17 22:35	127-18-4	
Toluene	**11.1**	ug/m3	1.3	0.27	1.75		03/21/17 22:35	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 22:35	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/21/17 22:35	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 22:35	79-00-5	
Trichloroethene	**6.6**	ug/m3	0.96	0.48	1.75		03/21/17 22:35	79-01-6	
Trichlorofluoromethane	**2.2**	ug/m3	2.0	0.23	1.75		03/21/17 22:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.2J**	ug/m3	2.8	0.53	1.75		03/21/17 22:35	76-13-1	
1,2,4-Trimethylbenzene	**8.8**	ug/m3	1.7	0.22	1.75		03/21/17 22:35	95-63-6	
1,3,5-Trimethylbenzene	**2.8**	ug/m3	1.7	0.32	1.75		03/21/17 22:35	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 22:35	75-01-4	
m&p-Xylene	**4.7**	ug/m3	3.1	1.4	1.75		03/21/17 22:35	179601-23-1	
o-Xylene	**1.7**	ug/m3	1.5	0.61	1.75		03/21/17 22:35	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D
Report Date: 23-Mar-2017 15:45

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08028.D
Lab Smp Id: 10381035016
Inj Date : 21-MAR-2017 22:35
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 28
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.999	3.025	(0.536)	28642	0.59014	1.03(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.549	3.545	(0.634)	95263	4.15651	7.27	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.584	3.603	(0.640)	129130	1.88068	3.29	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.661	3.677	(0.654)	27501	0.22200	0.388	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.722	3.722	(0.665)	657656	6.64624	11.6	
19	Isopropyl Alcohol	45	3.780	3.764	(0.675)	68004	0.55763	0.976	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.941	3.951	(0.704)	8169	0.08655	0.151	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D
Report Date: 23-Mar-2017 15:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.999	4.005	(0.714)	2959280	36.3773	63.7	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.488	4.491	(0.801)	2021873	9.63584	9.64	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.584	4.587	(0.819)	565730	5.38924	9.43(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 Ethyl Acetate	43	4.719	4.716	(0.843)	85970	0.58212	1.02(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.822	4.841	(0.861)	82448	0.73887	1.29	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.462	5.465	(0.975)	16618	0.09424	0.165	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.484	5.487	(0.979)	24105	0.22666	0.397(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	6121968	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.883	5.889	(1.051)	19141	0.15399	0.269	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.986	(1.067)	57038	0.69185	1.21	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	6.073	6.085	(1.084)	21540	0.17270	0.302	
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5432506	9.63642	9.64	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.147	7.153	(1.276)	340115	1.66089	2.91	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.581	(0.876)	19069	0.13355	0.234(QH)	
	64 Dibromochloromethane	129	Compound Not Detected.						(D)
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	194936	2.21199	3.87	
*	67 Chlorobenzene - d5	117	8.639	8.642	(1.000)	3885016	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.928	8.934	(1.033)	24499	0.10896	0.191	
	70 m&p-Xylene	91	9.069	9.082	(1.050)	94186	0.60568	1.06	
	71 n-Nonane	43	9.471	9.468	(1.096)	78449	0.65548	1.15	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.494	9.507	(1.099)	4524	0.15917	0.279	
	74 o-Xylene	91	9.574	9.577	(1.108)	37419	0.21648	0.379	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D
Report Date: 23-Mar-2017 15:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.909	10.915	(1.263)	29661	0.26456	0.463(M)	
79	1,3,5-Trimethylbenzene	105	10.995	10.998	(1.273)	40767	0.31544	0.552	
80	n-Decane	57	11.375	11.381	(2.031)	123093	1.00361	1.76(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.507	11.510	(1.332)	187109	1.00429	1.76	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	1845437	9.84345	9.84	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.376)	927	0.14966	0.262(QH)	
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	12.027	12.034	(1.392)	72893	0.50044	0.876	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	12.452	12.461	(1.441)	41062	0.37950	0.664(Q)	
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.166	14.156	(1.640)	371554	3.49112	6.11	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D
Report Date: 23-Mar-2017 15:45

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08028.D
Lab Smp Id: 10381035016
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

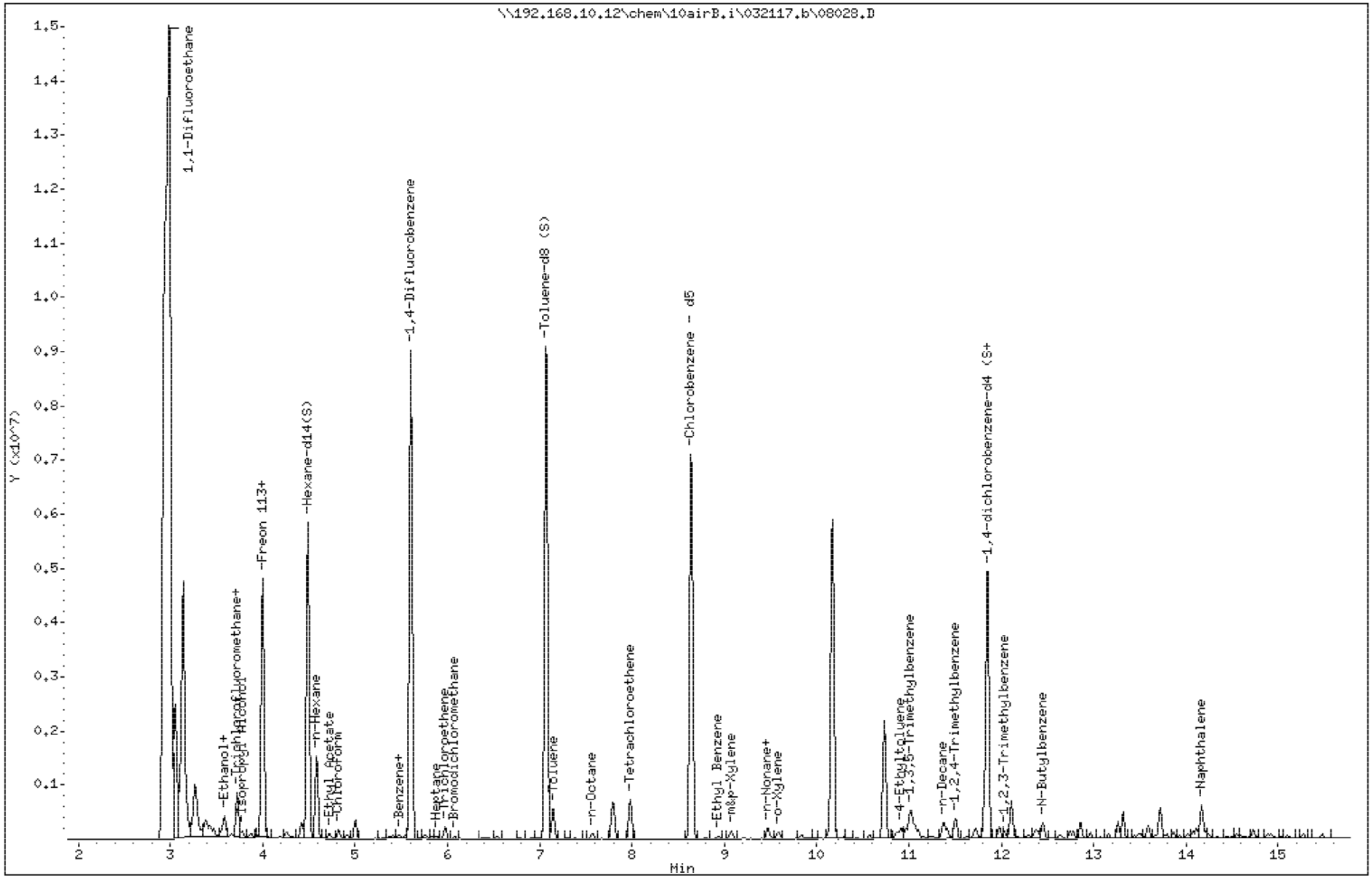
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6121968	-19.88
67 Chlorobenzene - d	5205948	3123569	7288327	3885016	-25.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D
Date : 21-MAR-2017 22:35
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

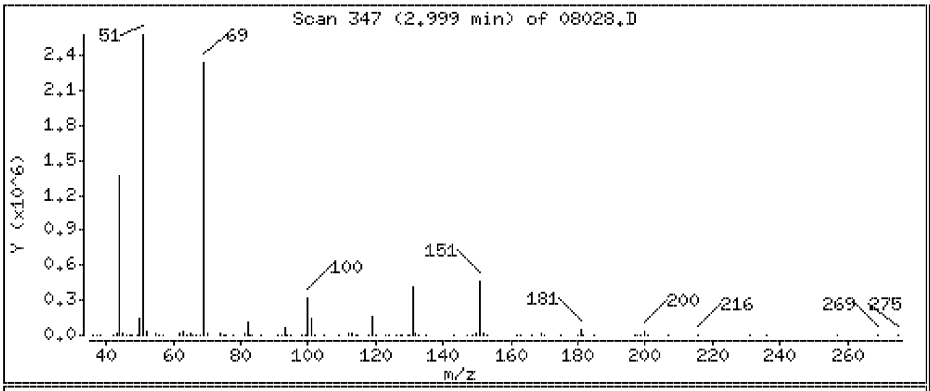
Operator: NCK

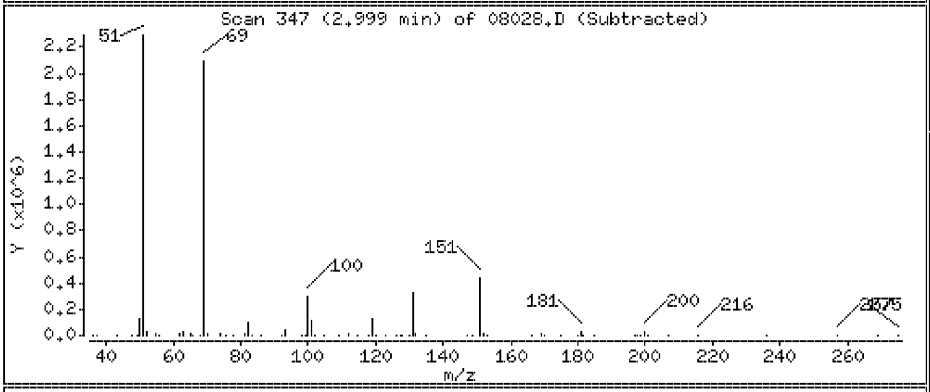
Column phase: J&W DB-5

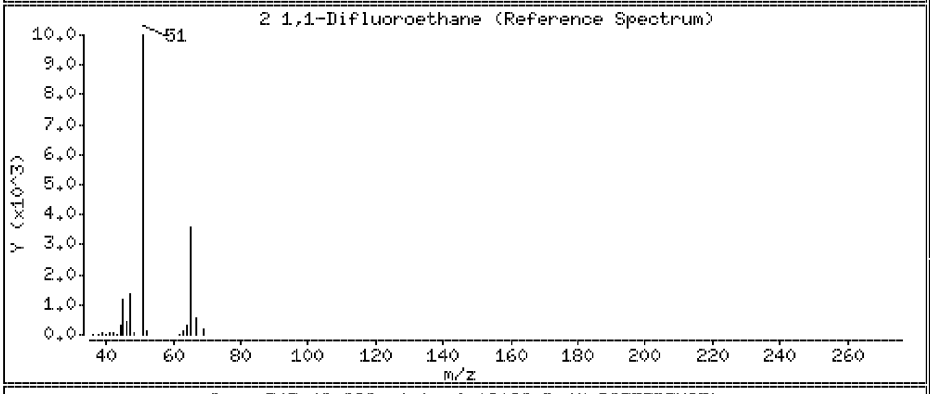
Column diameter: 0.32

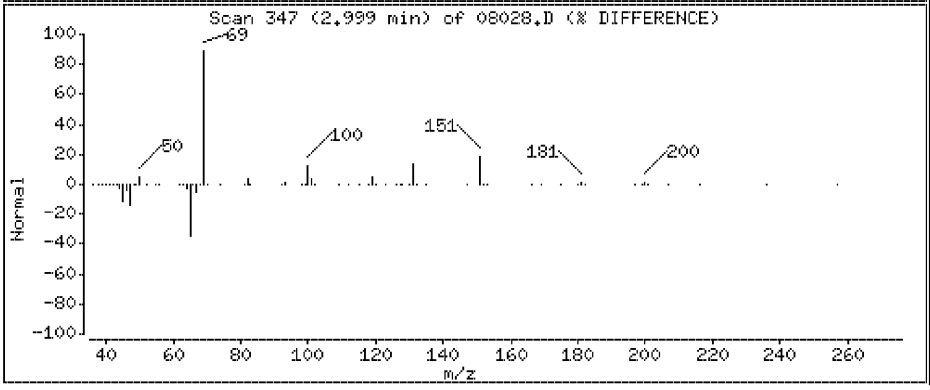
2 1,1-Difluoroethane

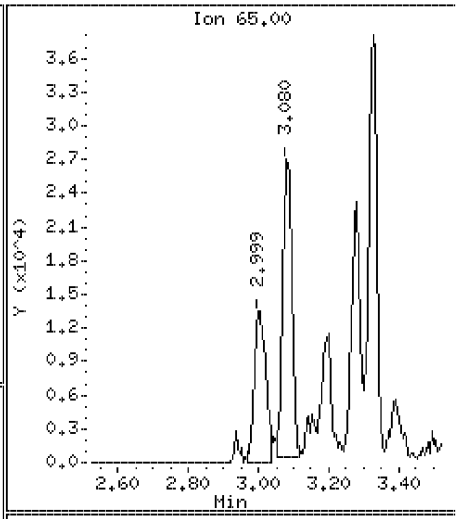
Concentration: 1.03 ppbv

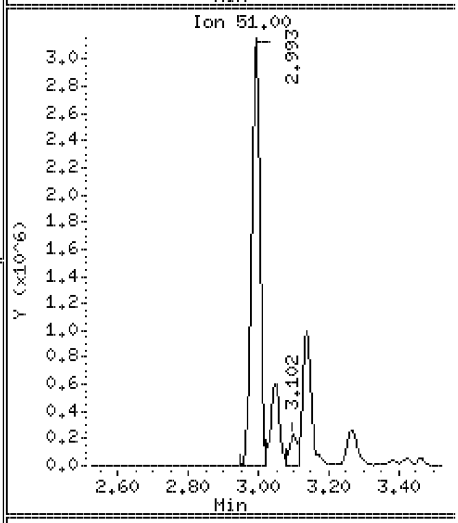


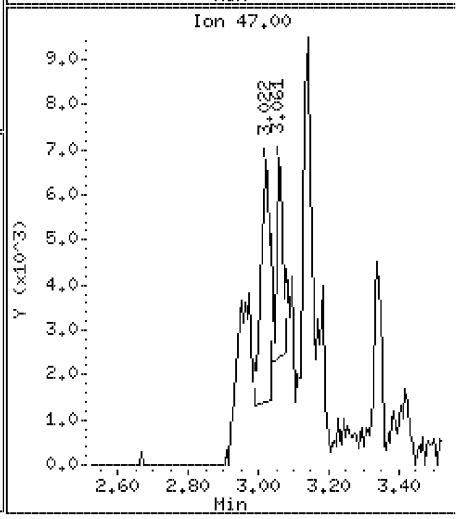












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

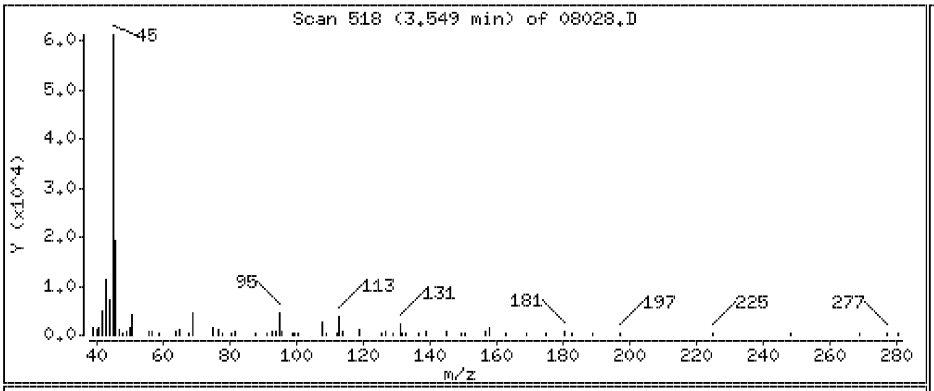
Operator: NCK

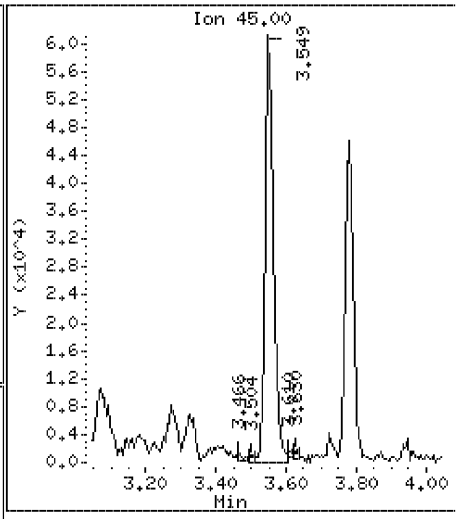
Column phase: J&W DB-5

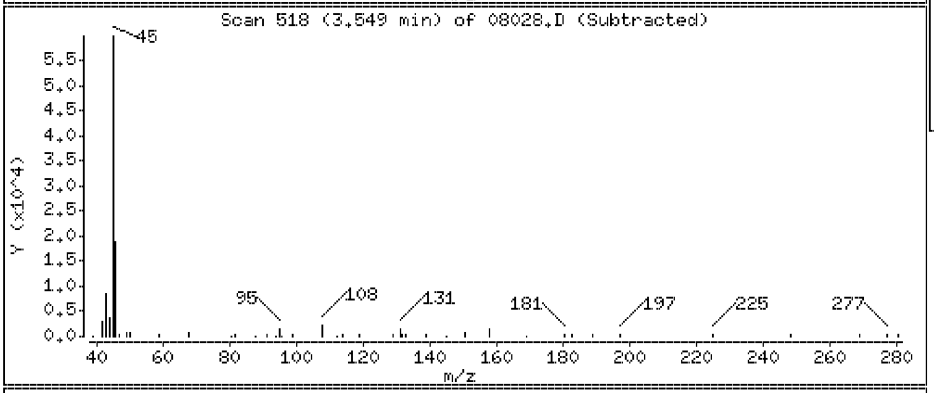
Column diameter: 0.32

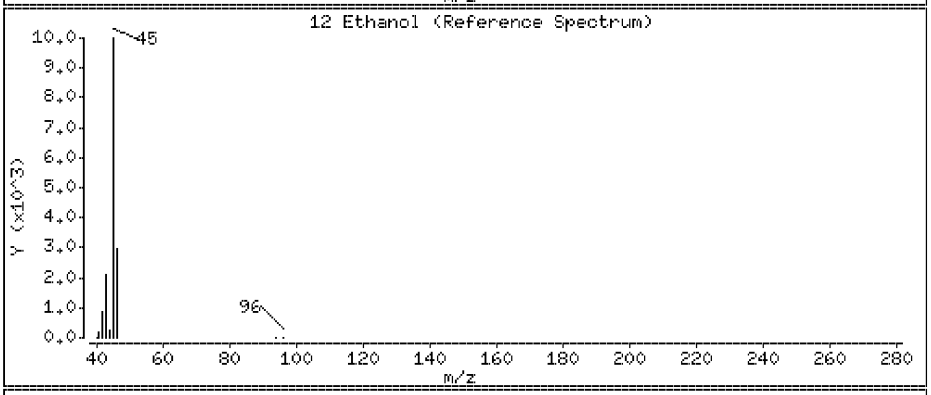
12 Ethanol

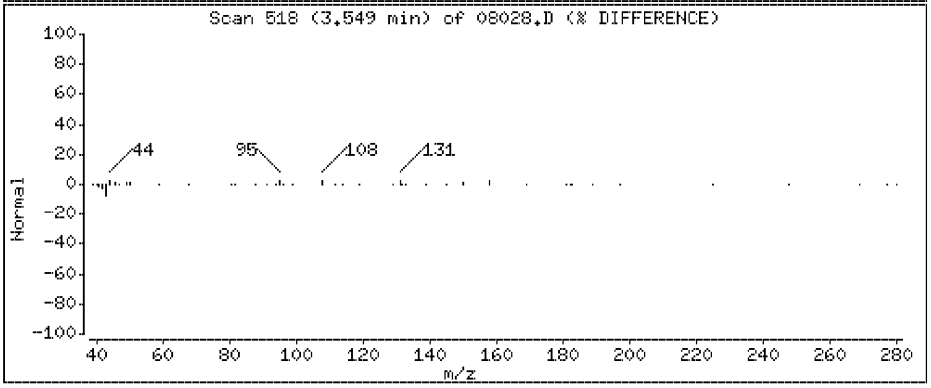
Concentration: 7.27 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

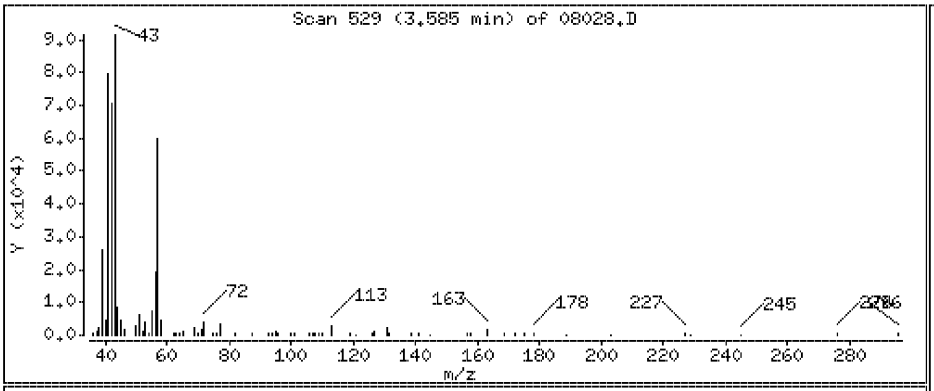
Operator: NCK

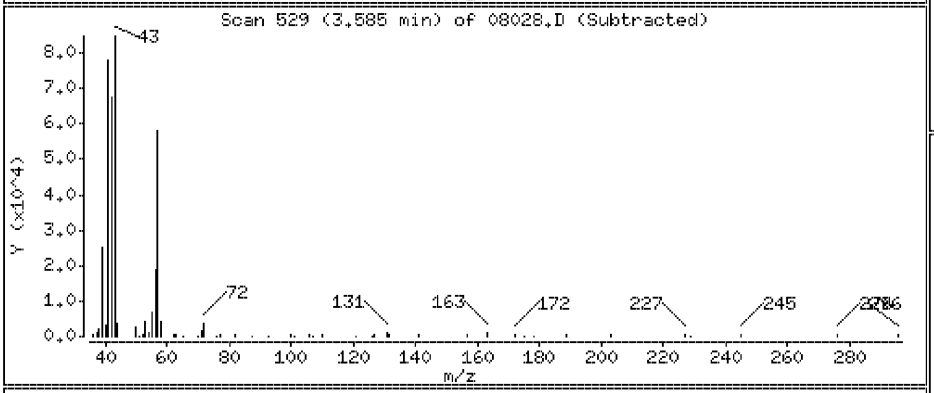
Column phase: J&W DB-5

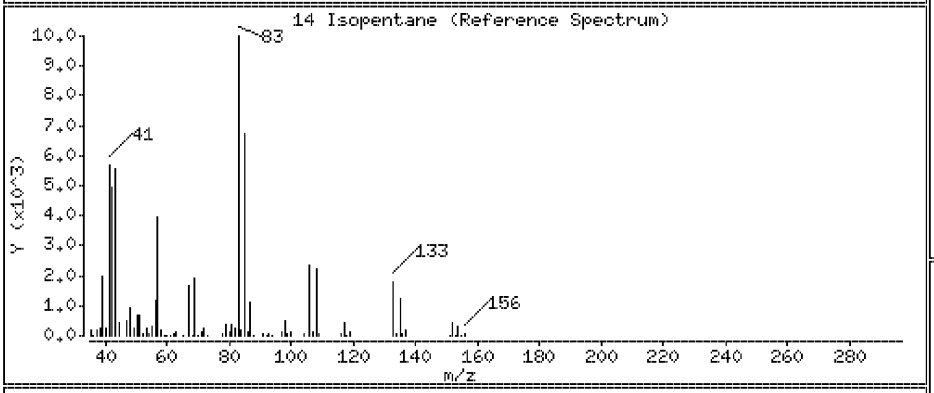
Column diameter: 0.32

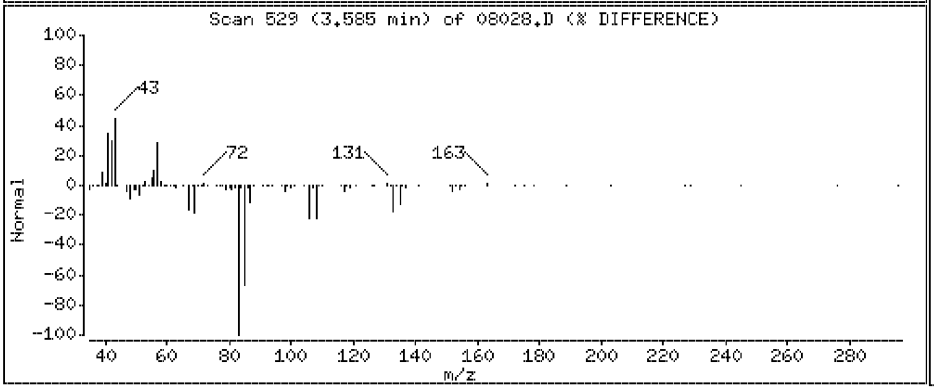
14 Isopentane

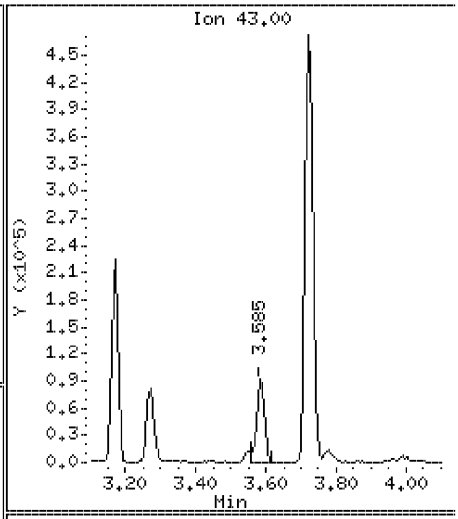
Concentration: 3.29 ppbv

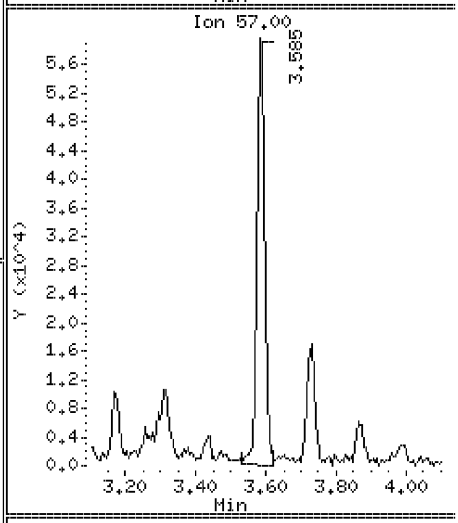


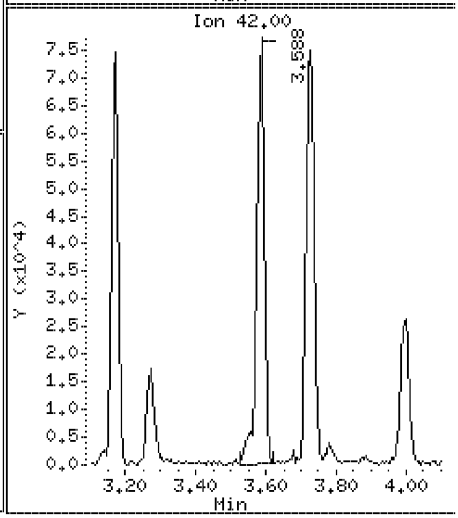












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

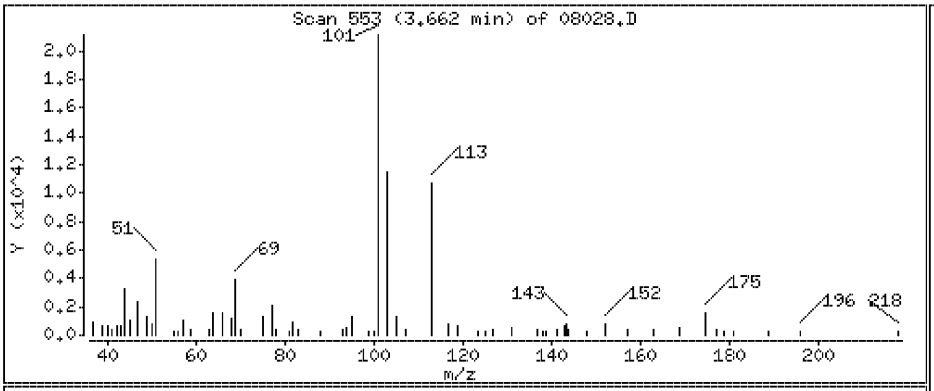
Operator: NCK

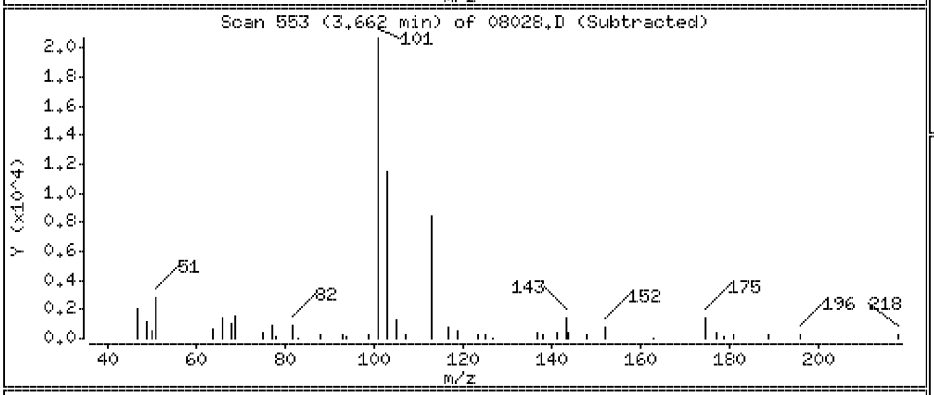
Column phase: J&W DB-5

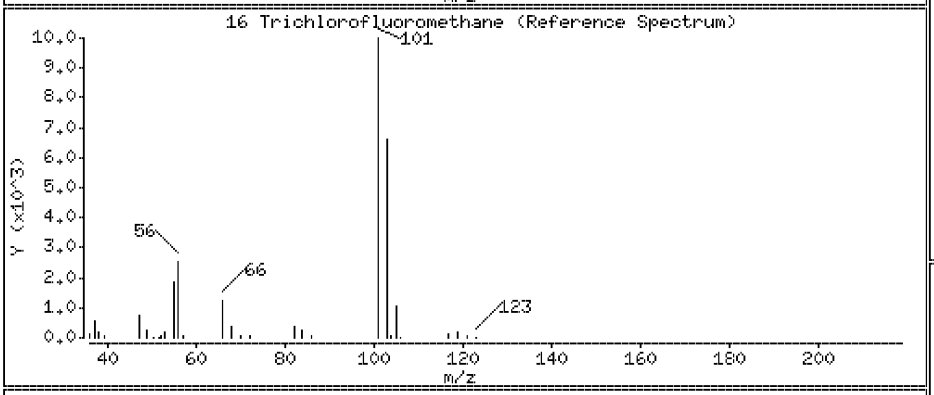
Column diameter: 0.32

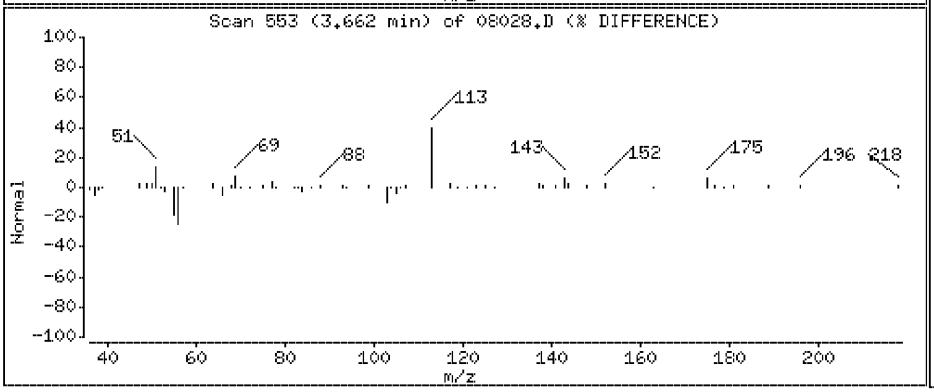
16 Trichlorofluoromethane

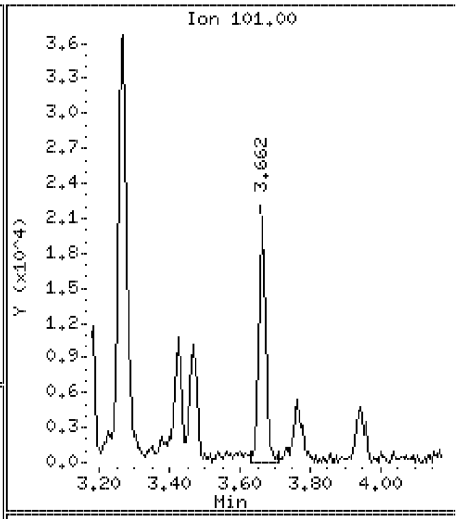
Concentration: 0.388 ppbv

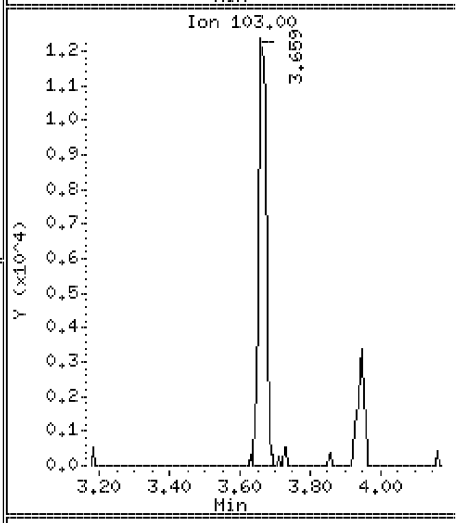


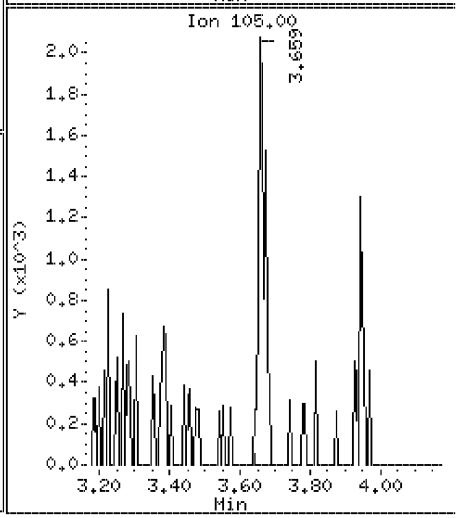












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

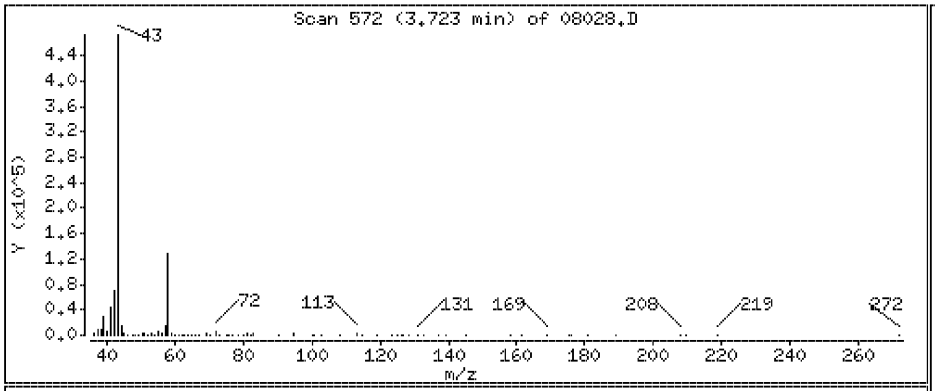
Operator: NCK

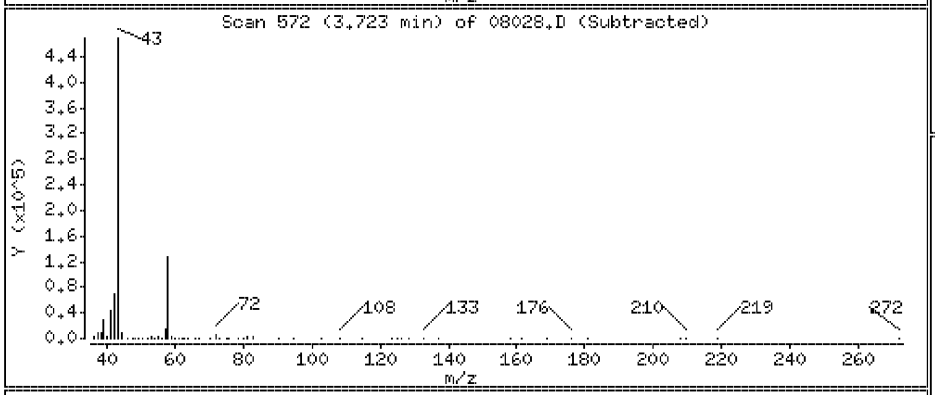
Column phase: J&W DB-5

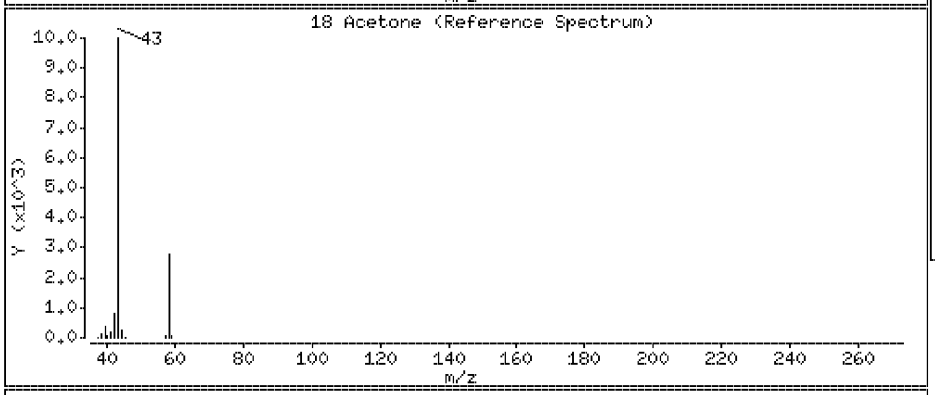
Column diameter: 0.32

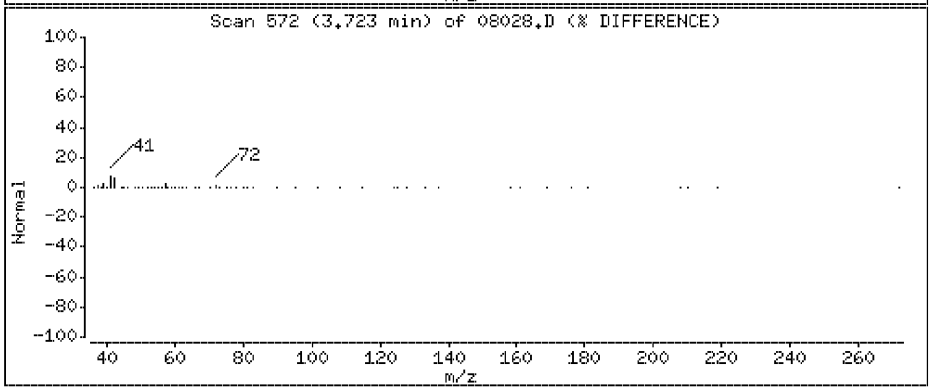
18 Acetone

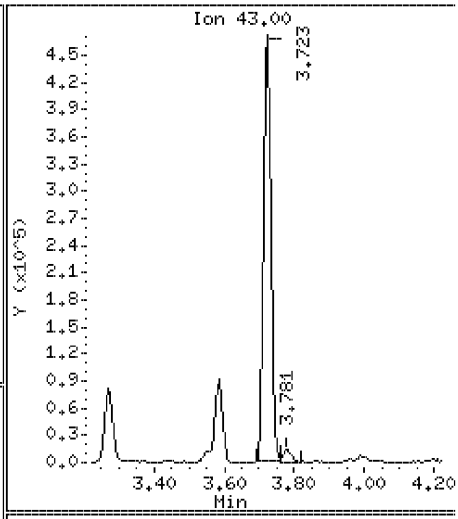
Concentration: 11.6 ppbv

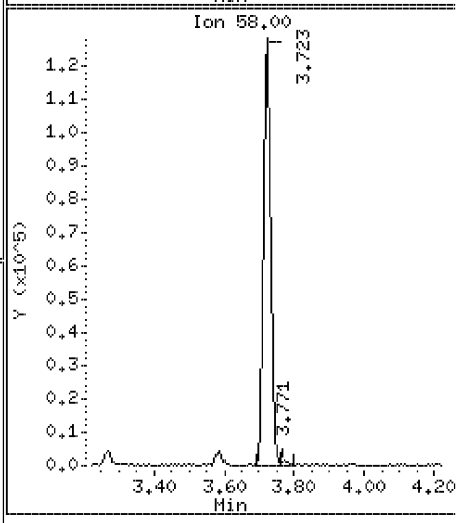












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

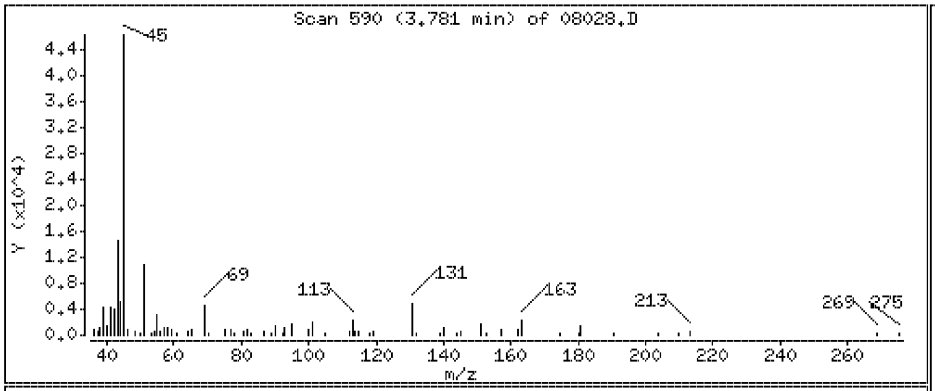
Operator: NCK

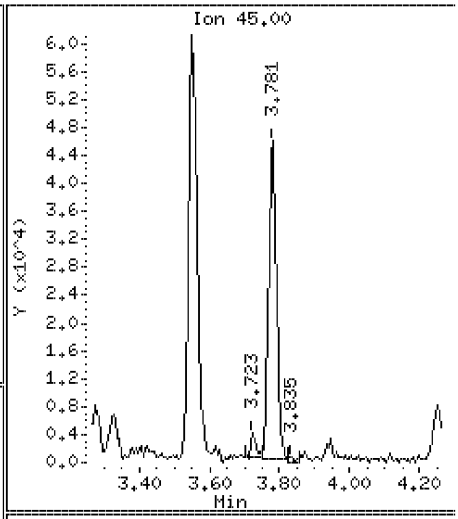
Column phase: J&W DB-5

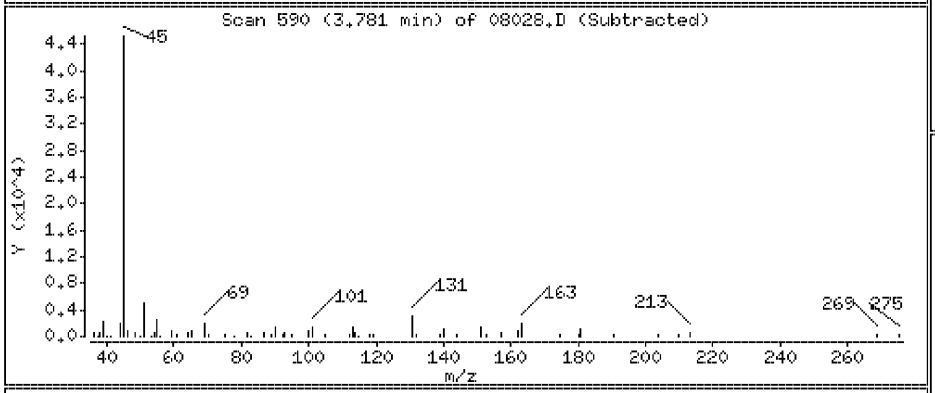
Column diameter: 0.32

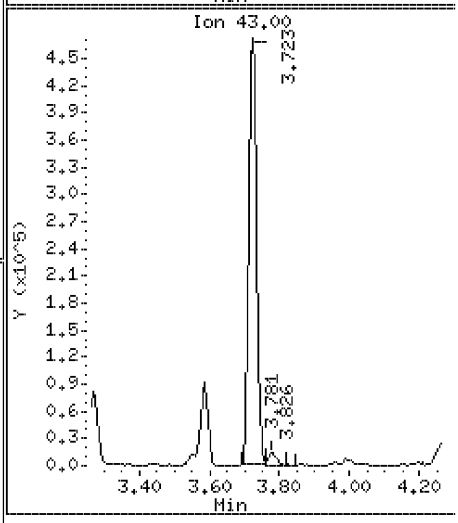
19 Isopropyl Alcohol

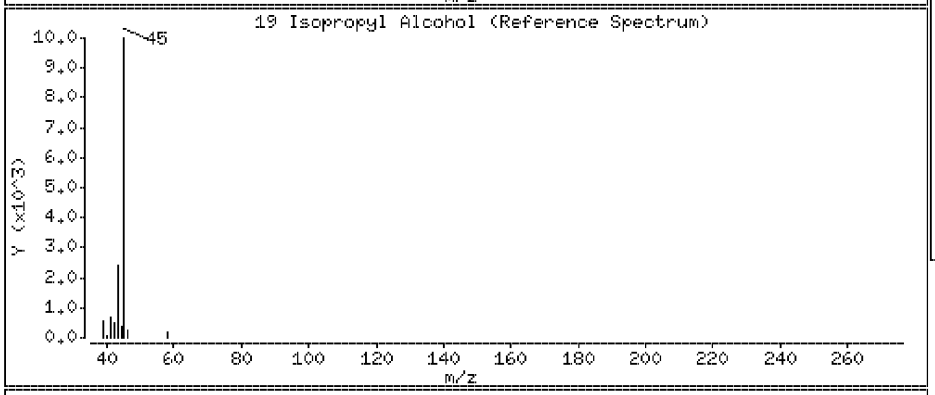
Concentration: 0.976 ppbv

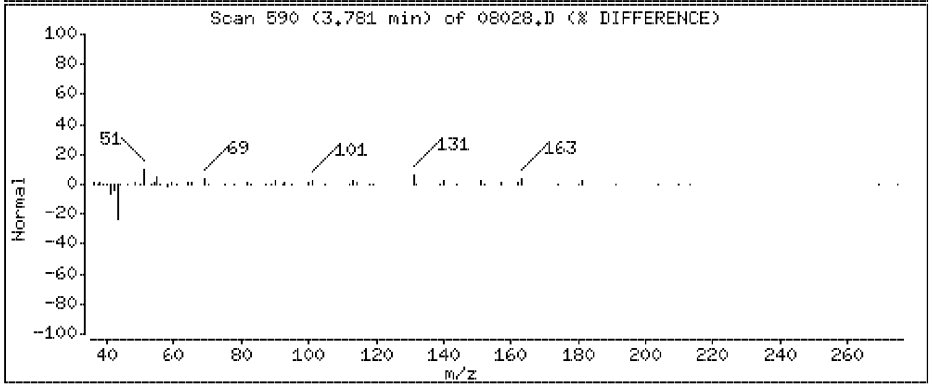












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

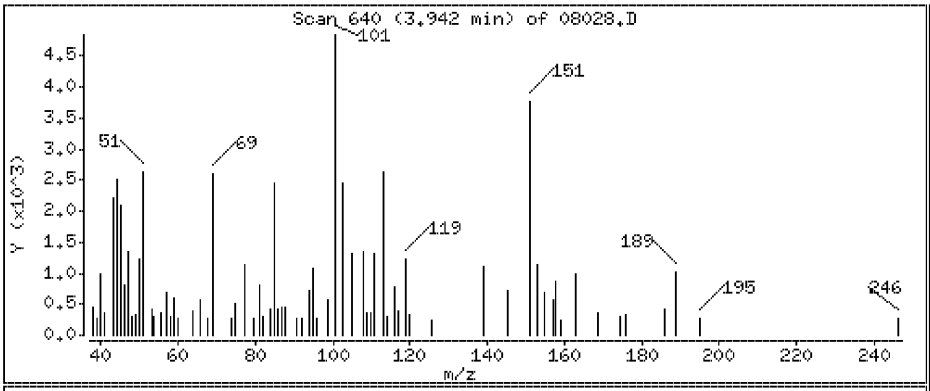
Operator: NCK

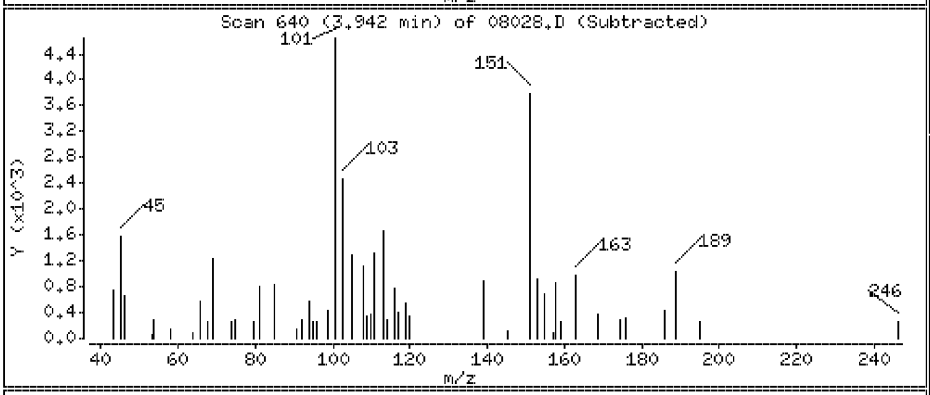
Column phase: J&W DB-5

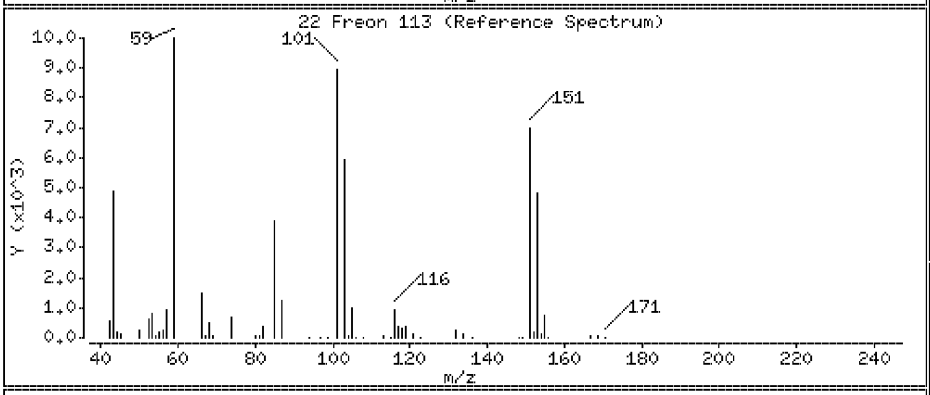
Column diameter: 0.32

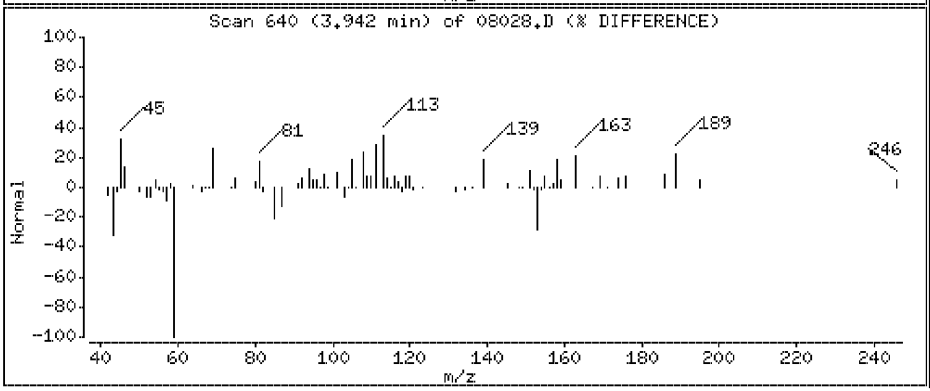
22 Freon 113

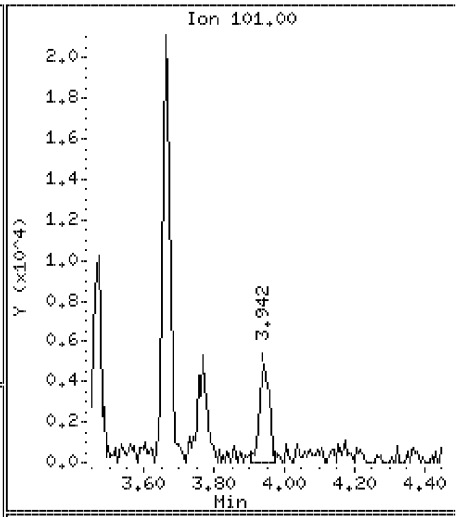
Concentration: 0.151 ppbv

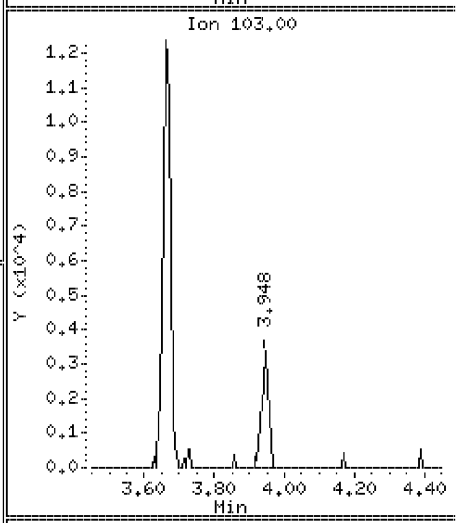


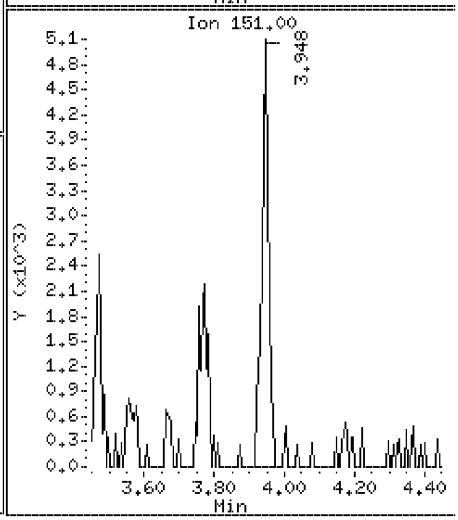












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

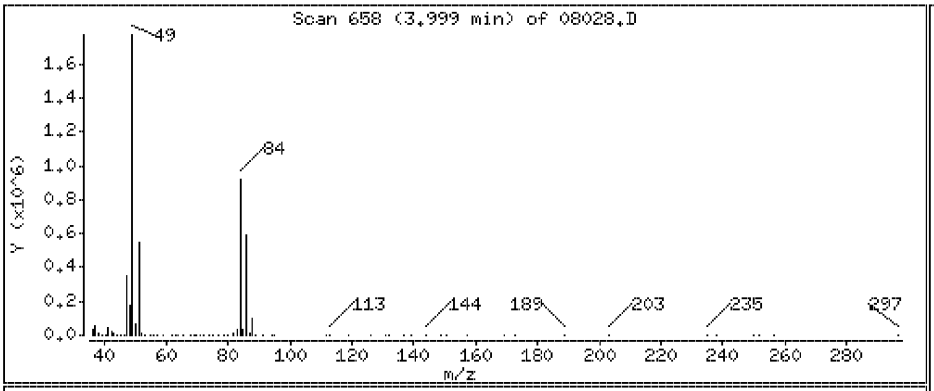
Operator: NCK

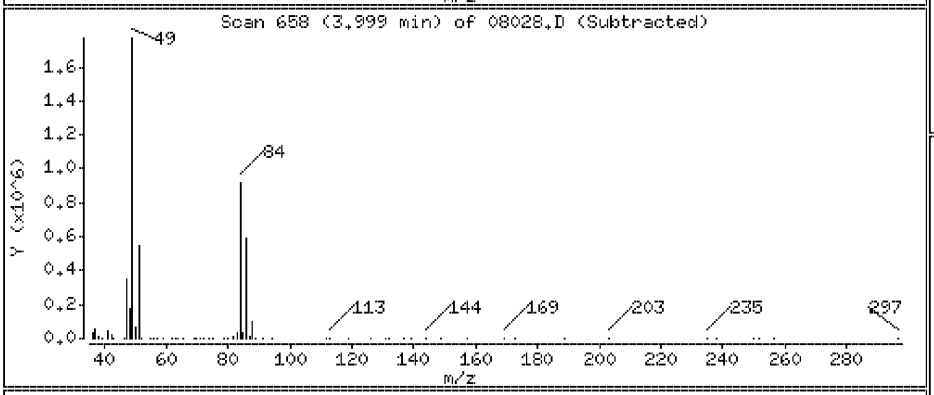
Column phase: J&W DB-5

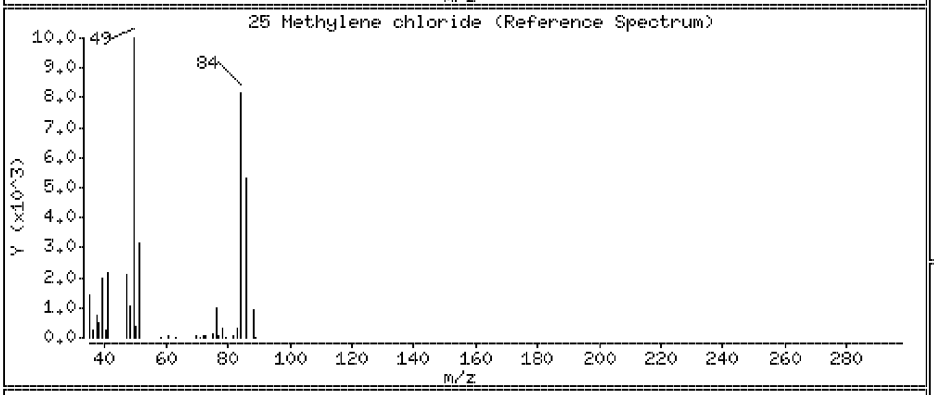
Column diameter: 0.32

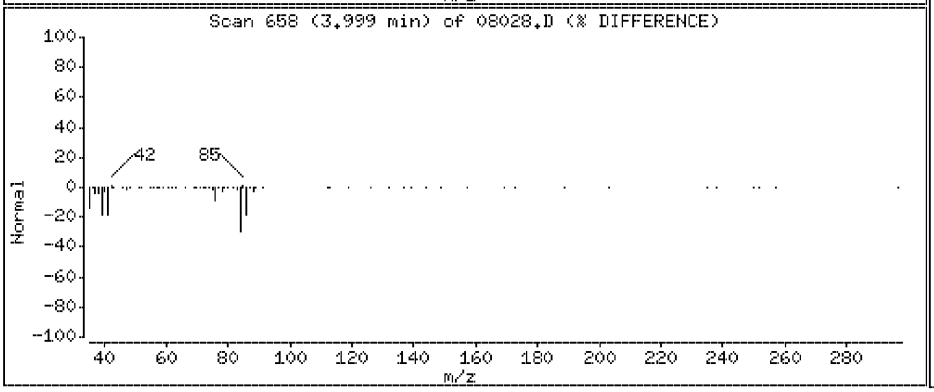
25 Methylene chloride

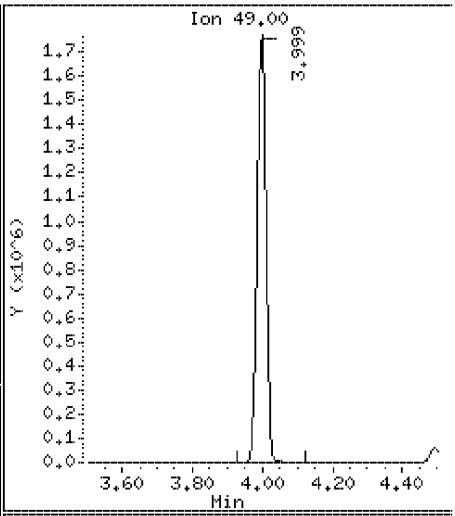
Concentration: 63.7 ppbv

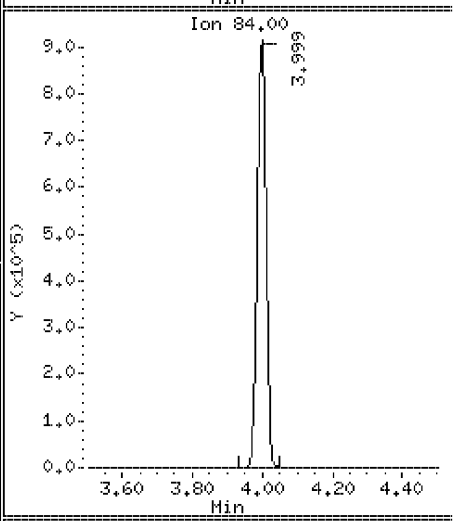


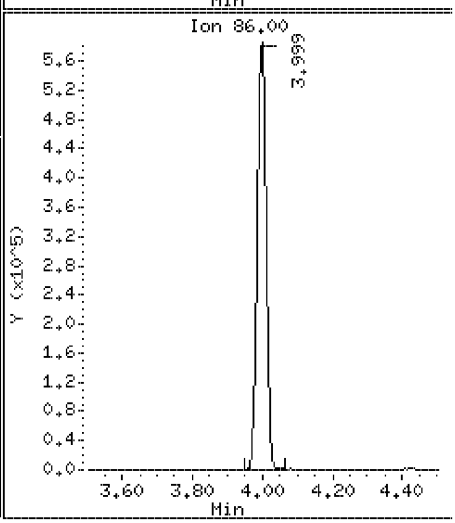












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

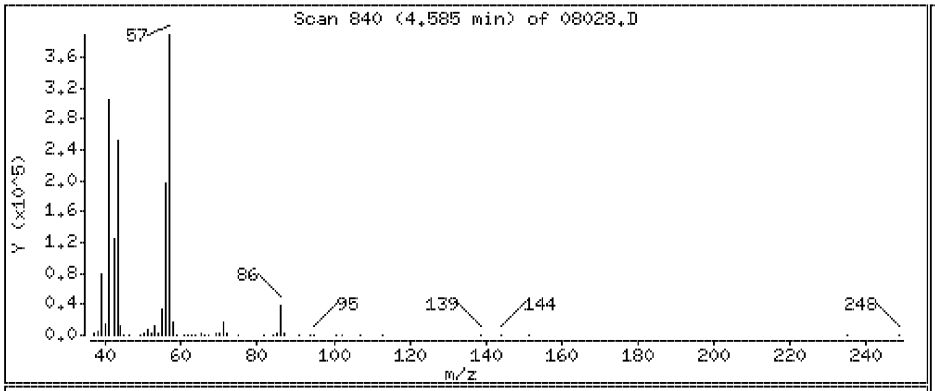
Operator: NCK

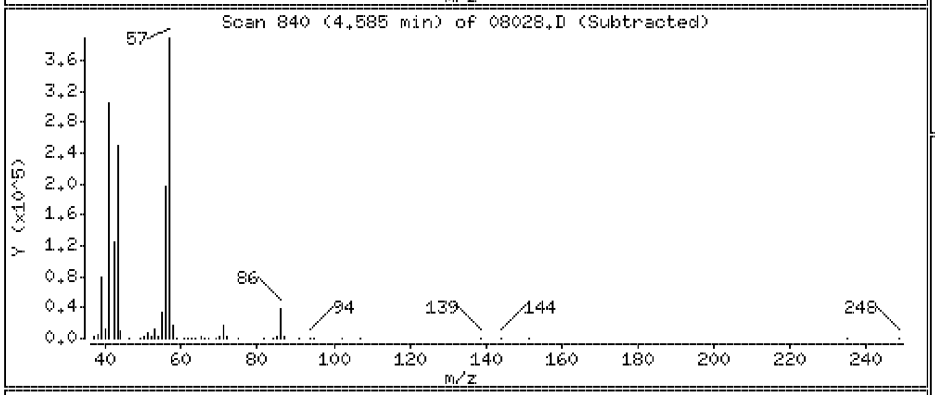
Column phase: J&W DB-5

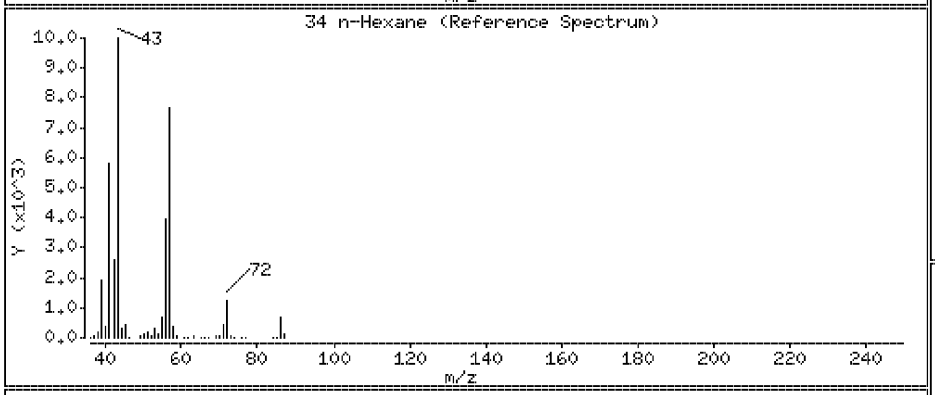
Column diameter: 0.32

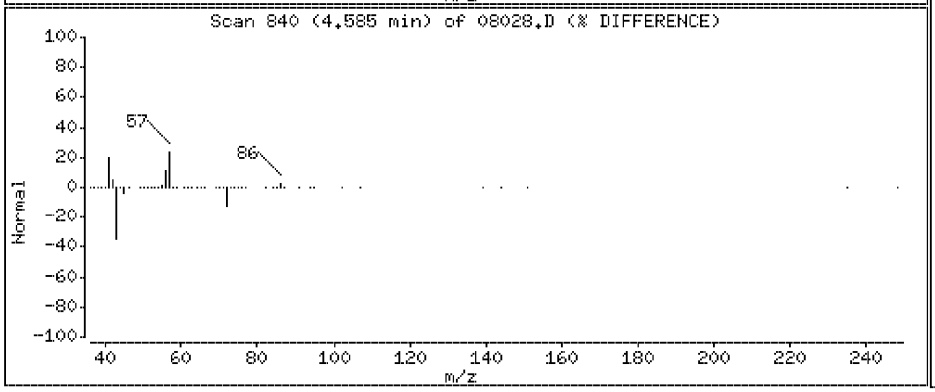
34 n-Hexane

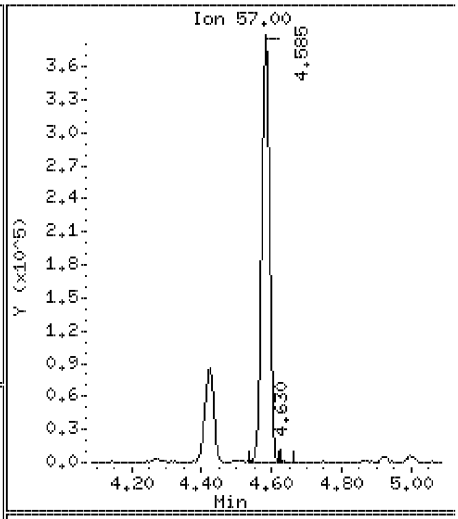
Concentration: 9.43 ppbv

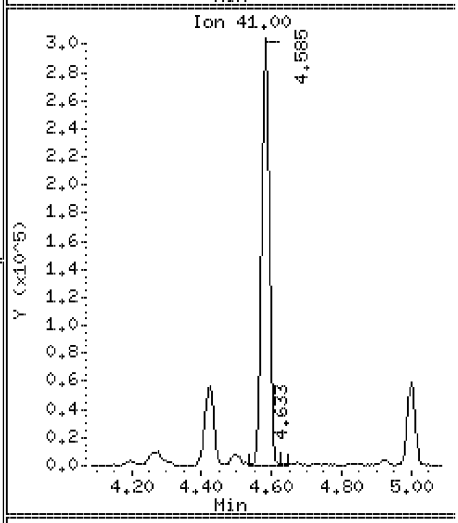


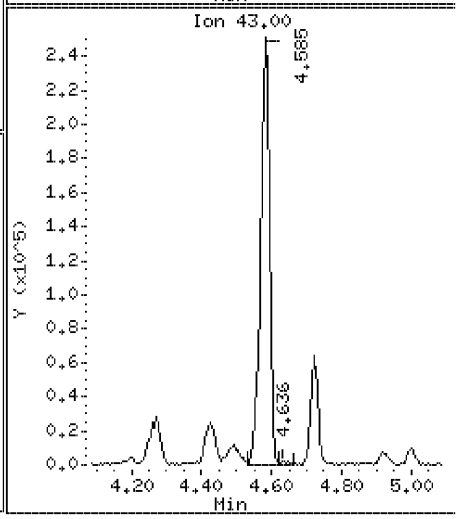












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

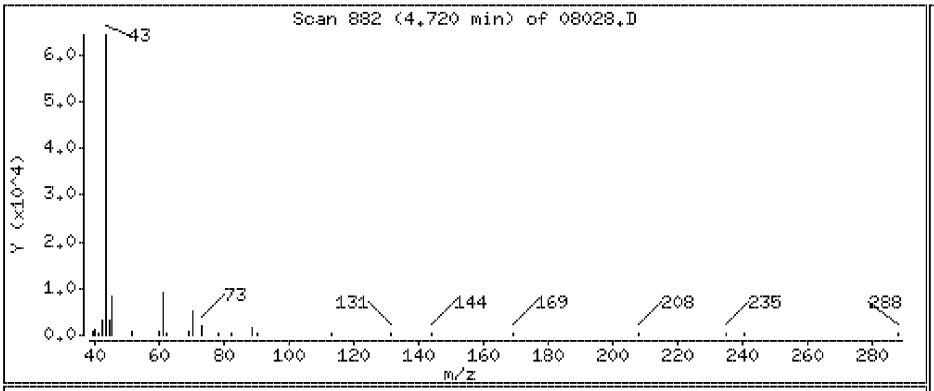
Operator: NCK

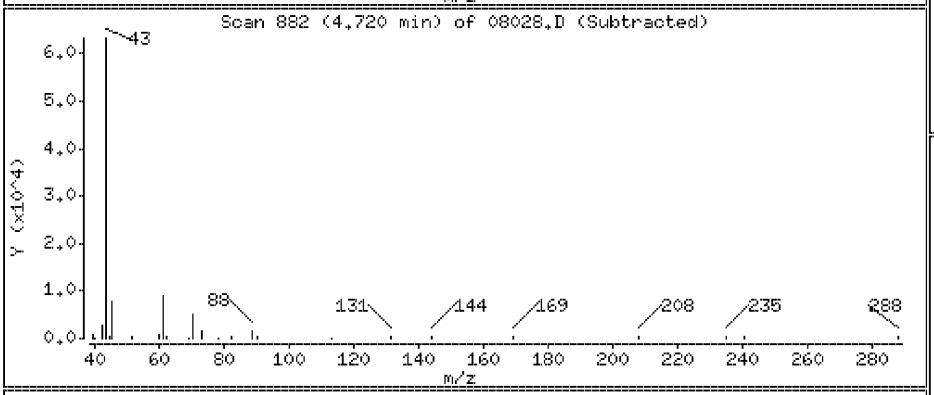
Column phase: J&W DB-5

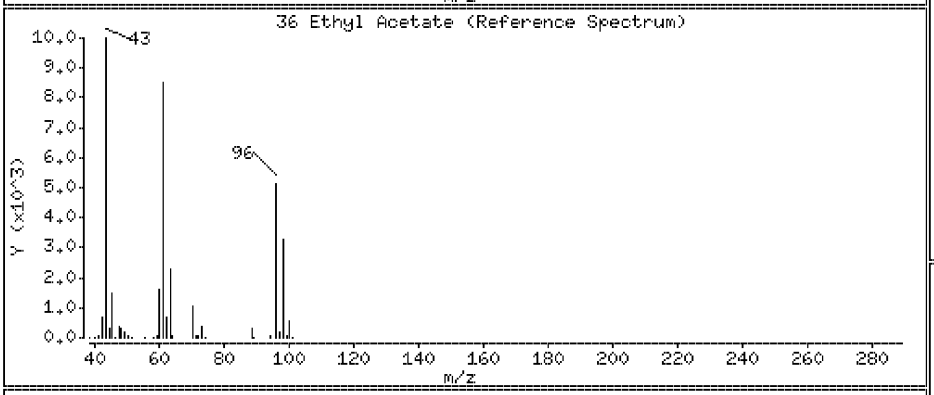
Column diameter: 0.32

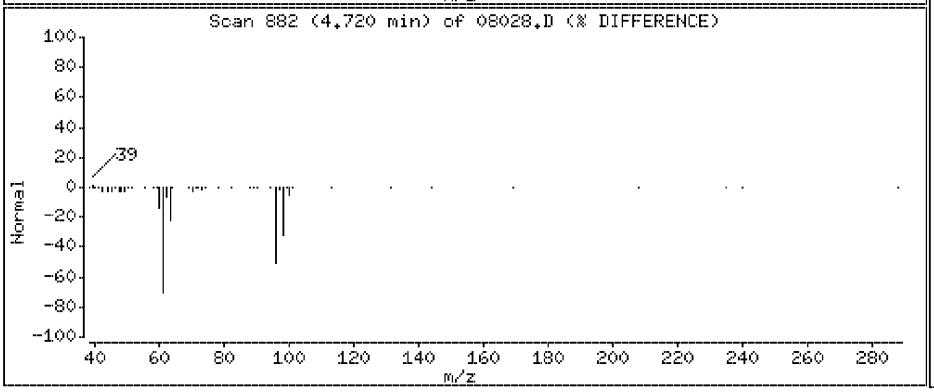
36 Ethyl Acetate

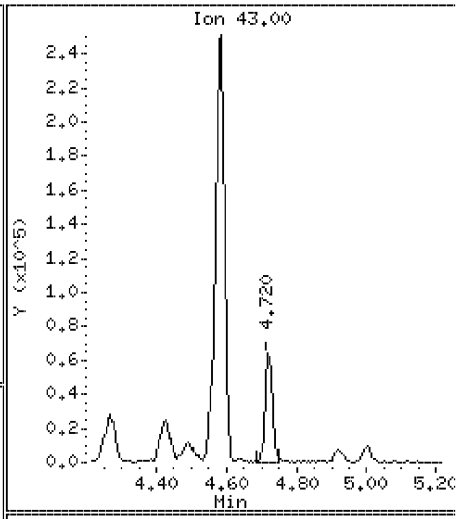
Concentration: 1.02 ppbv

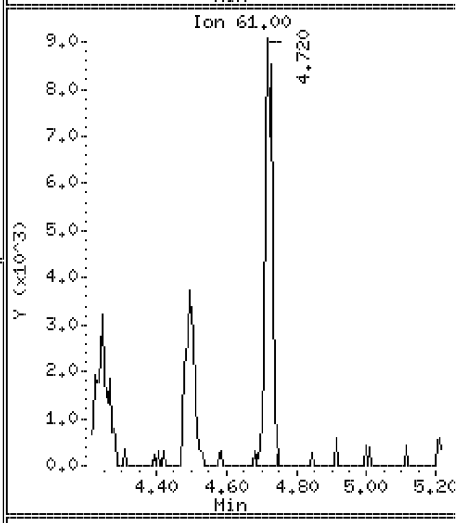


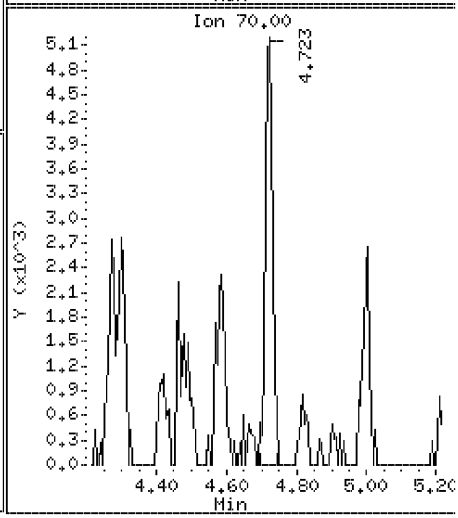












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

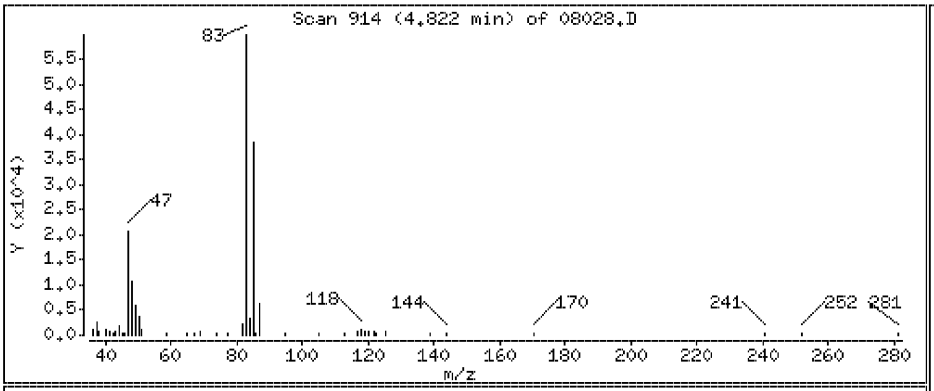
Operator: NCK

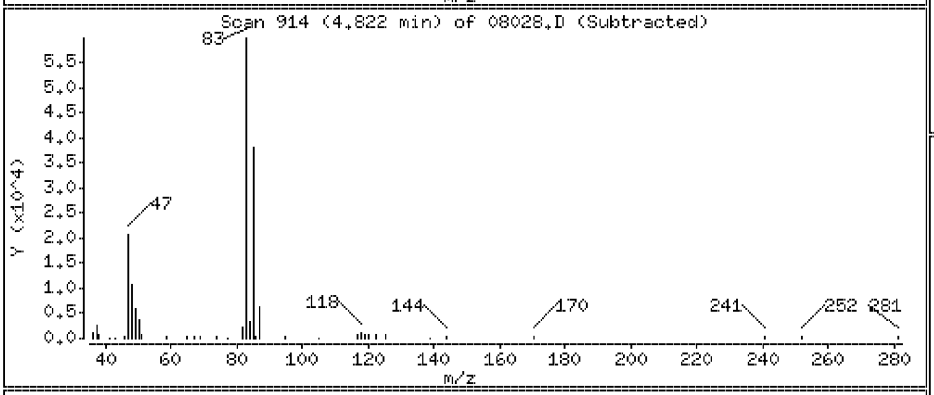
Column phase: J&W DB-5

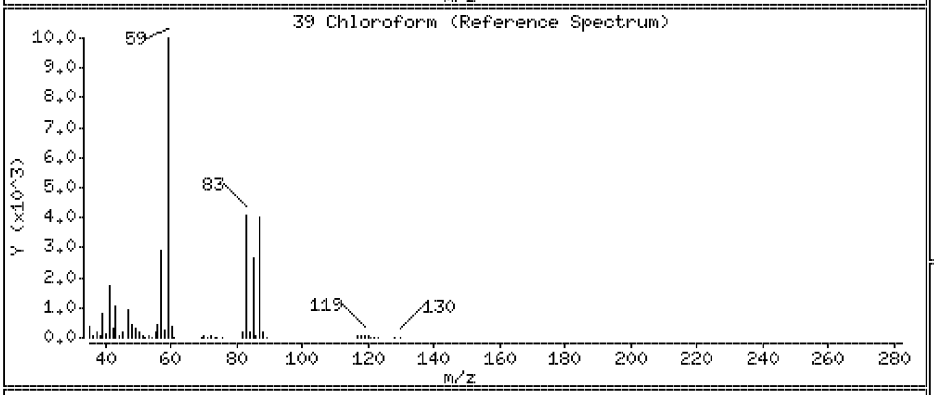
Column diameter: 0.32

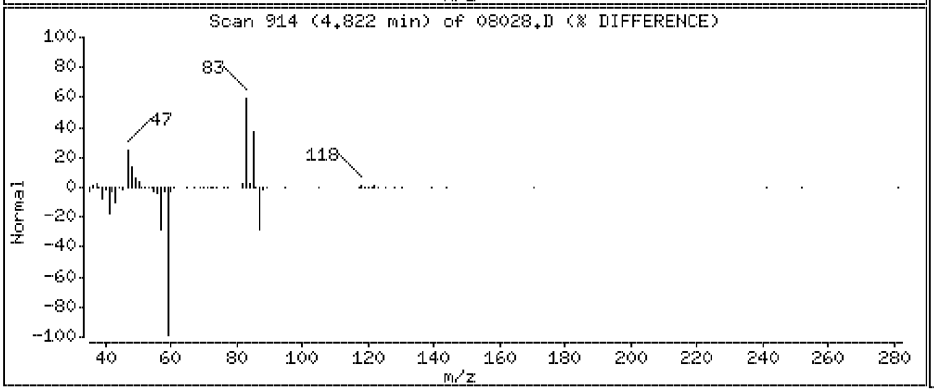
39 Chloroform

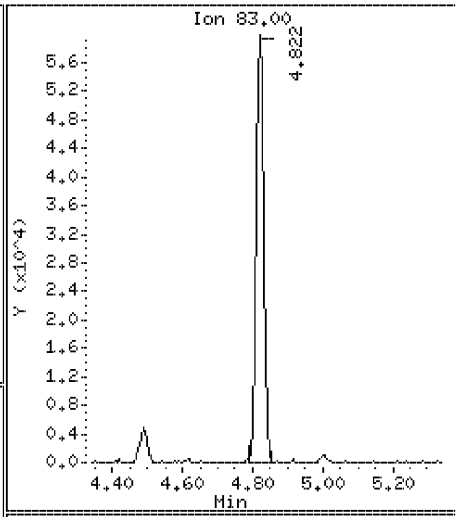
Concentration: 1.29 ppbv

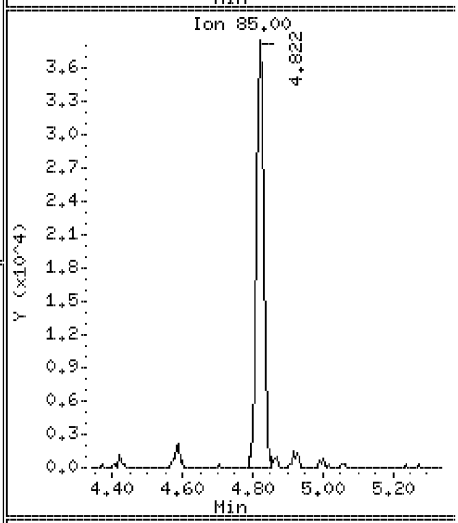


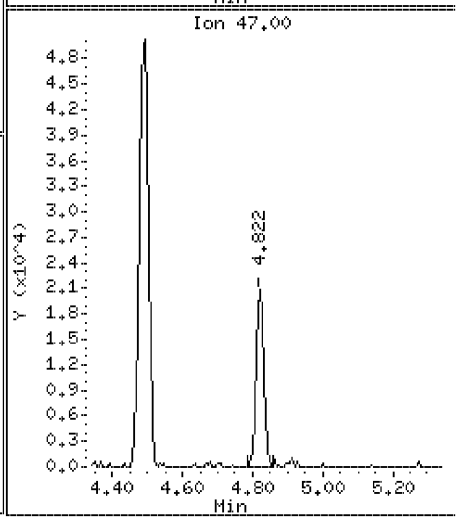












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

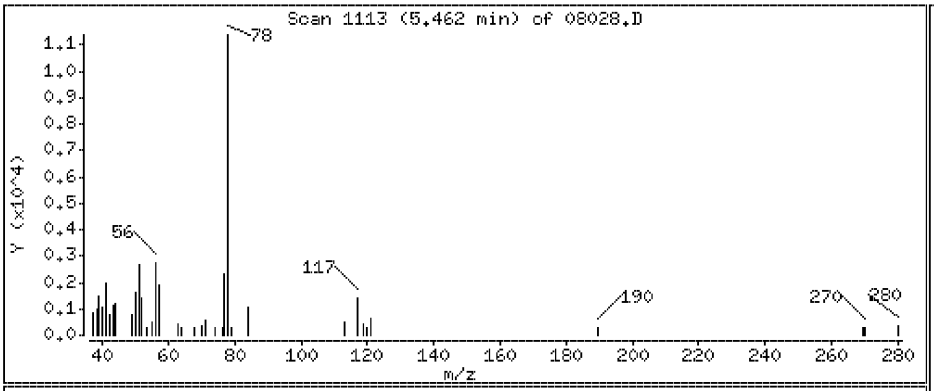
Operator: NCK

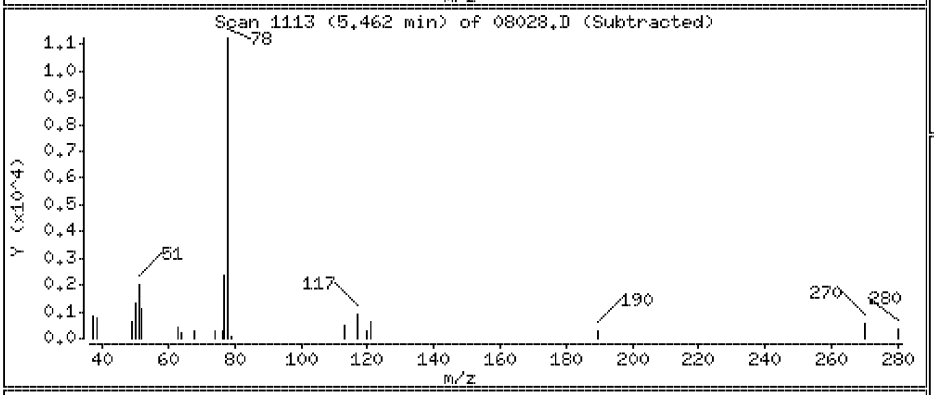
Column phase: J&W DB-5

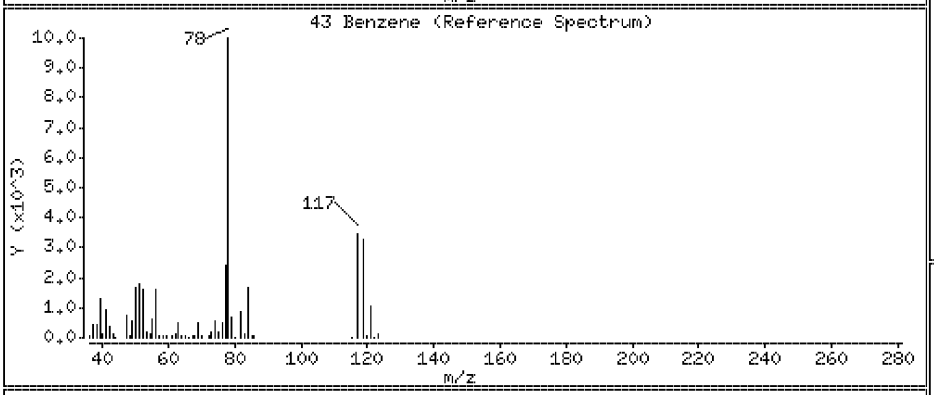
Column diameter: 0.32

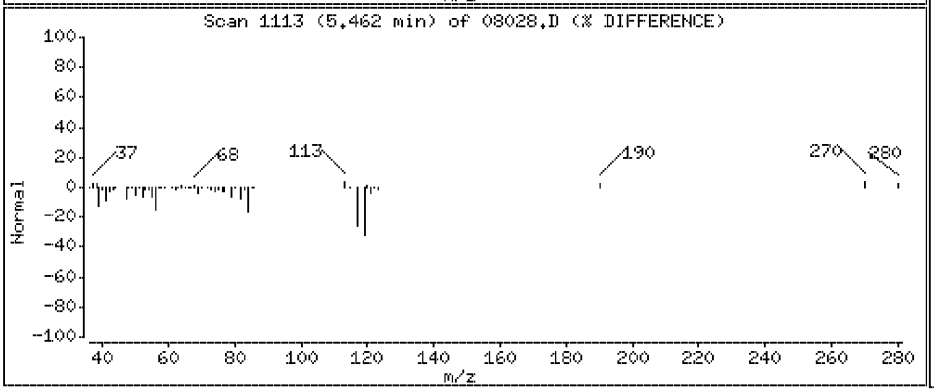
43 Benzene

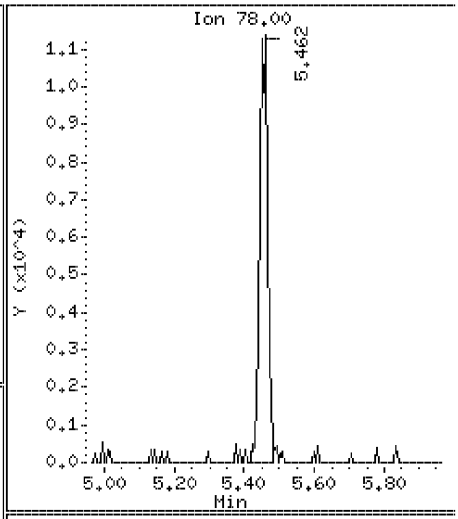
Concentration: 0.165 ppbv

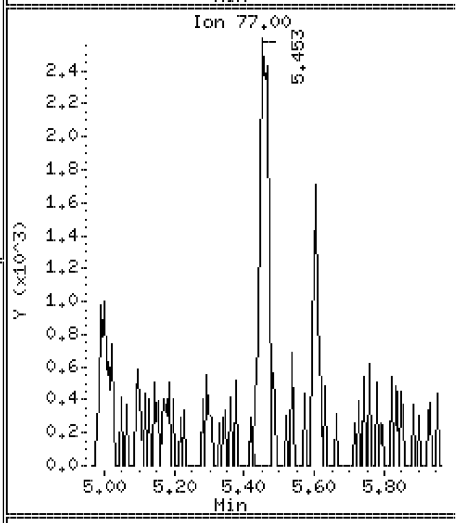


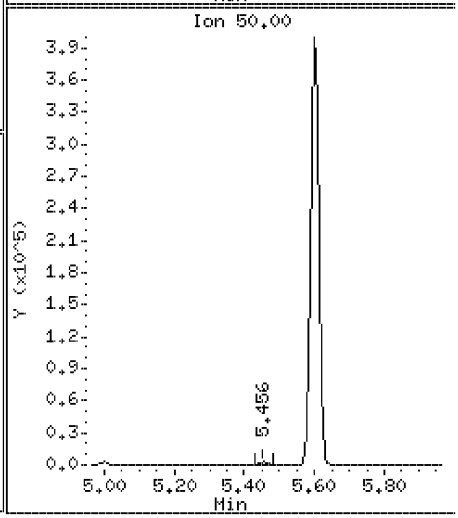












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

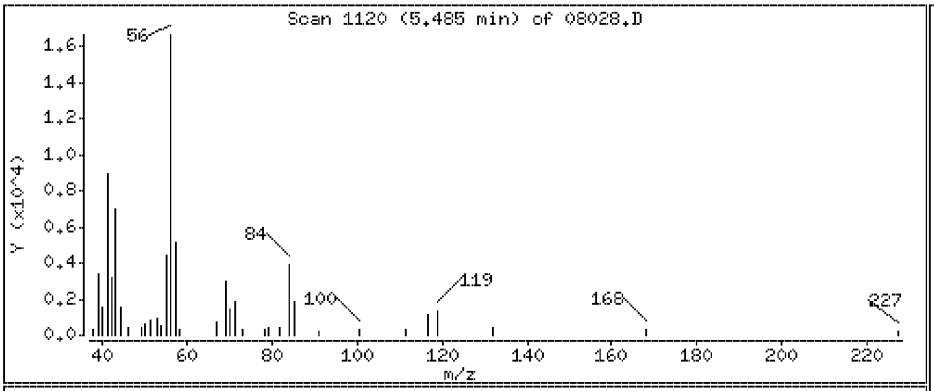
Operator: NCK

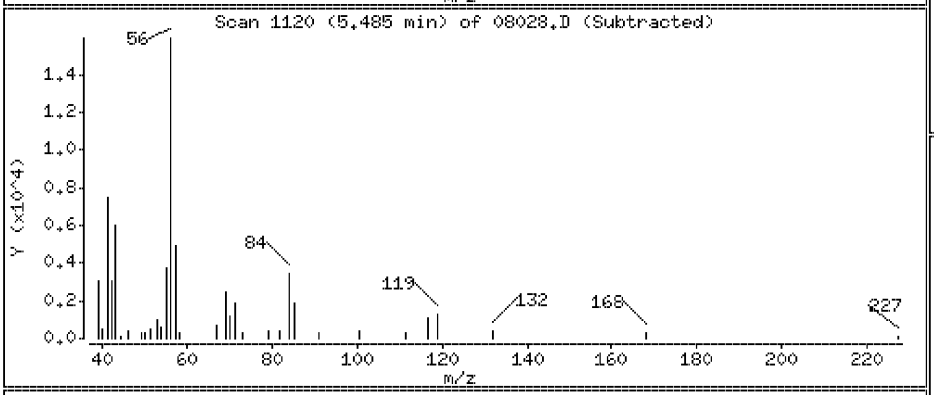
Column phase: J&W DB-5

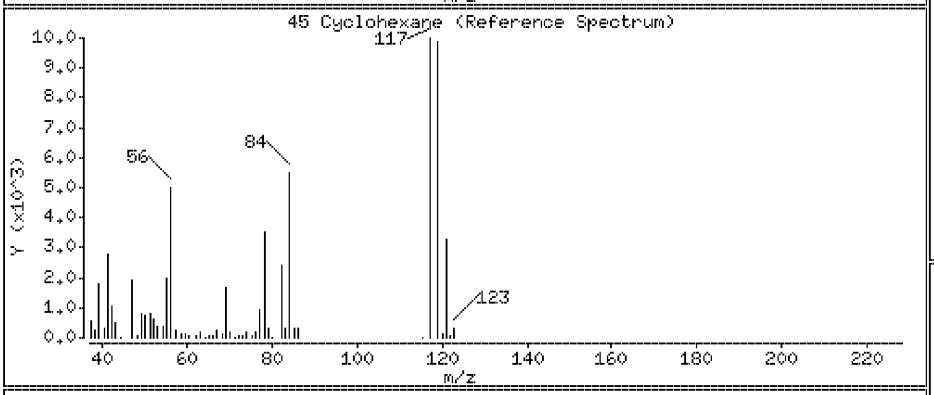
Column diameter: 0.32

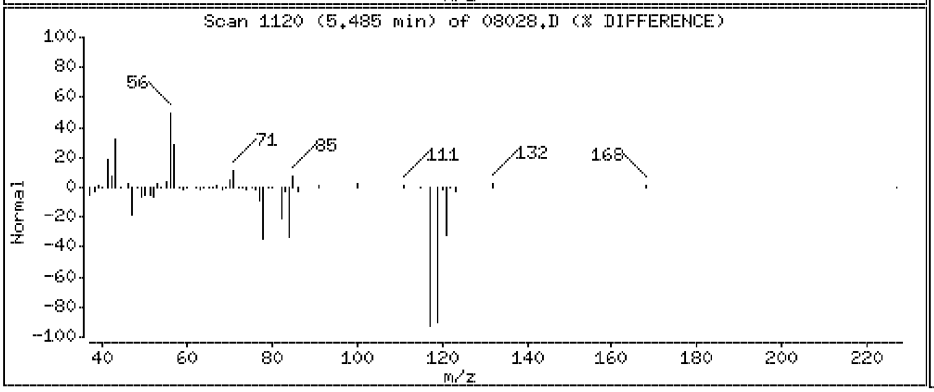
45 Cyclohexane

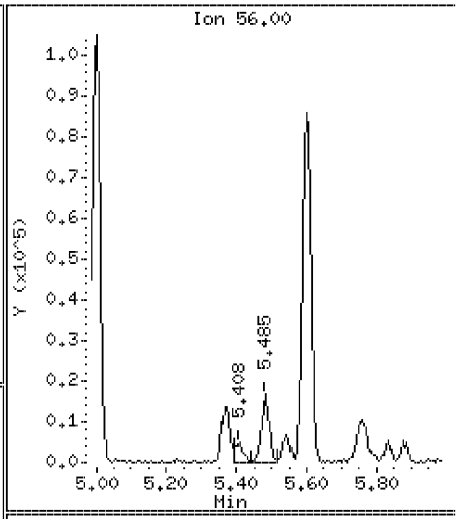
Concentration: 0.397 ppbv

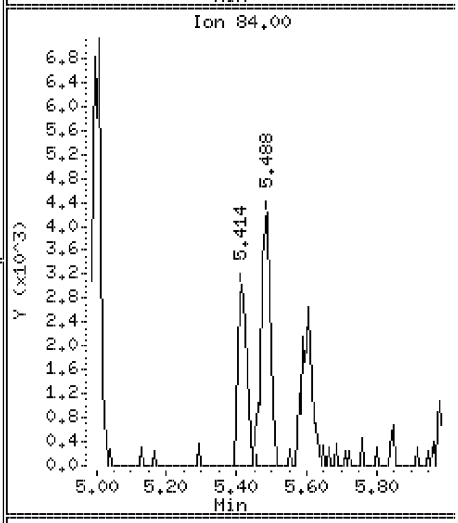


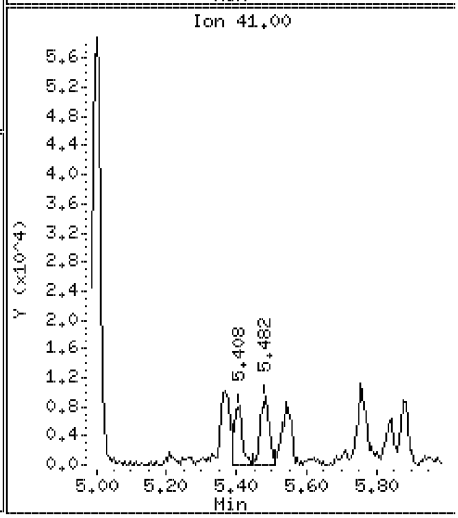












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

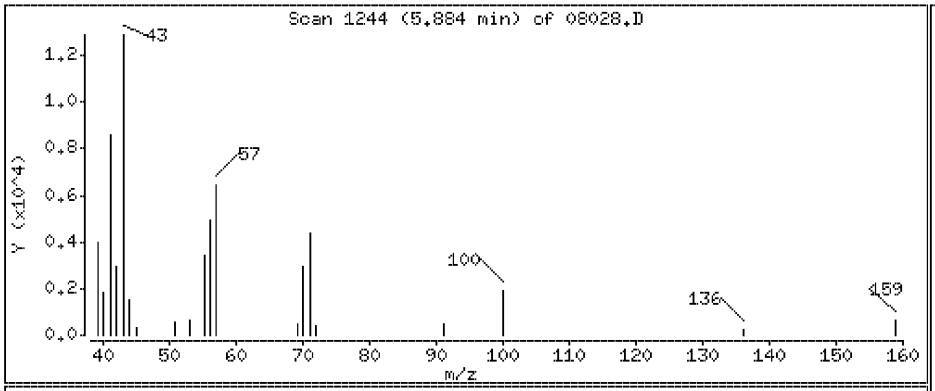
Operator: NCK

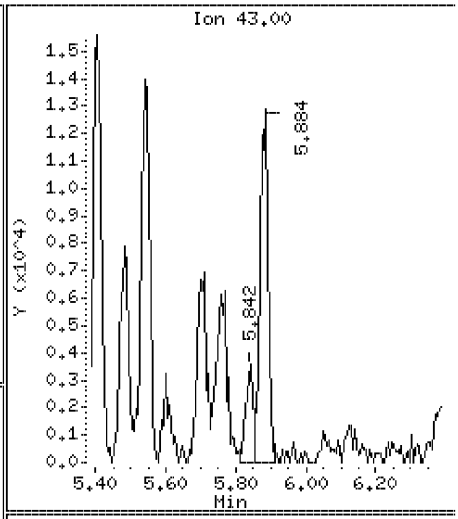
Column phase: J&W DB-5

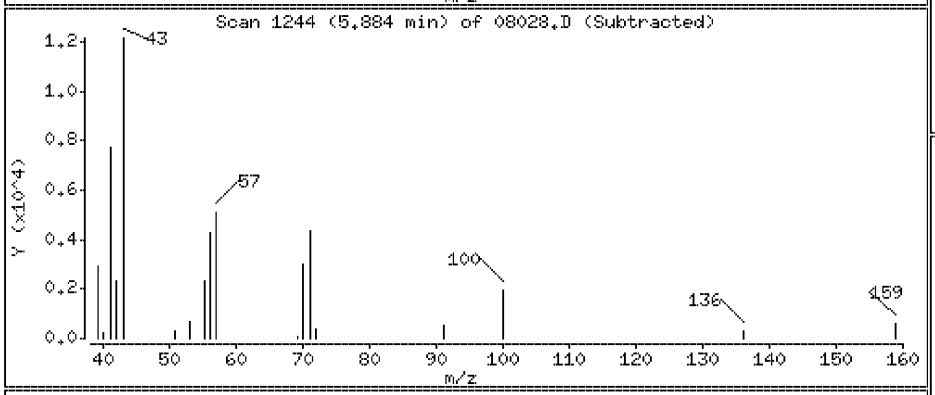
Column diameter: 0.32

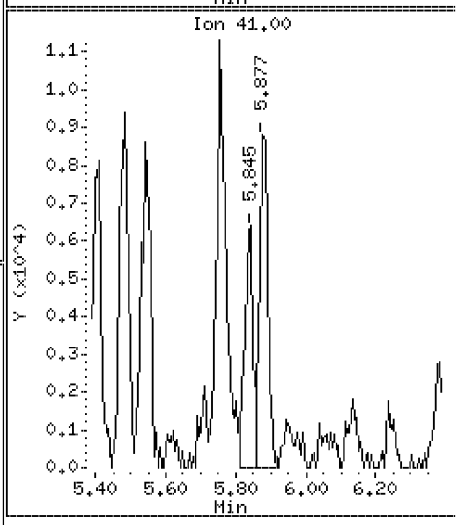
49 Heptane

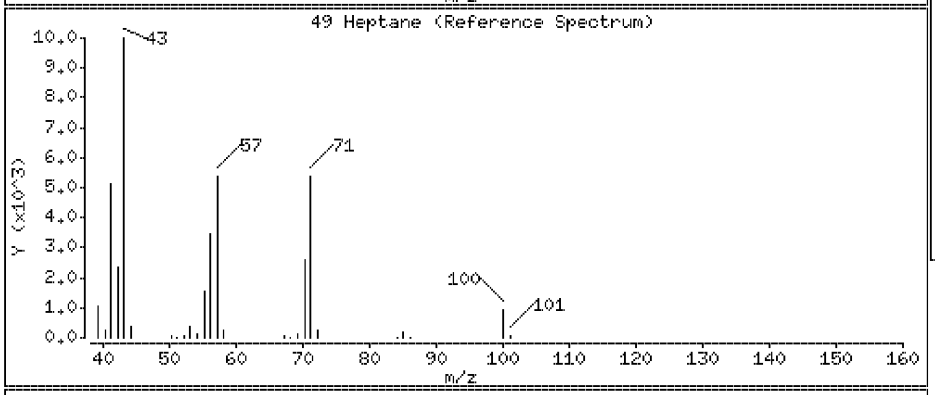
Concentration: 0.269 ppbv

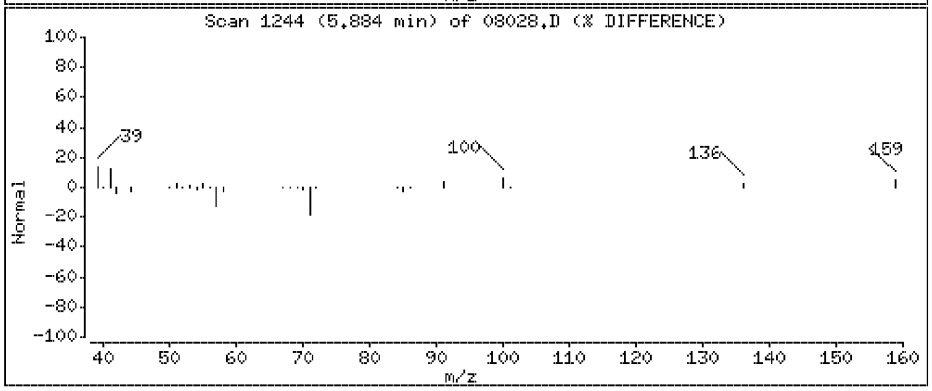












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

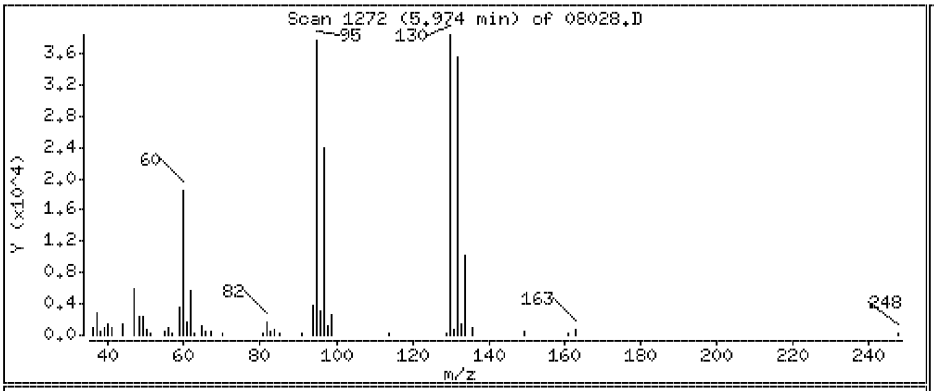
Operator: NCK

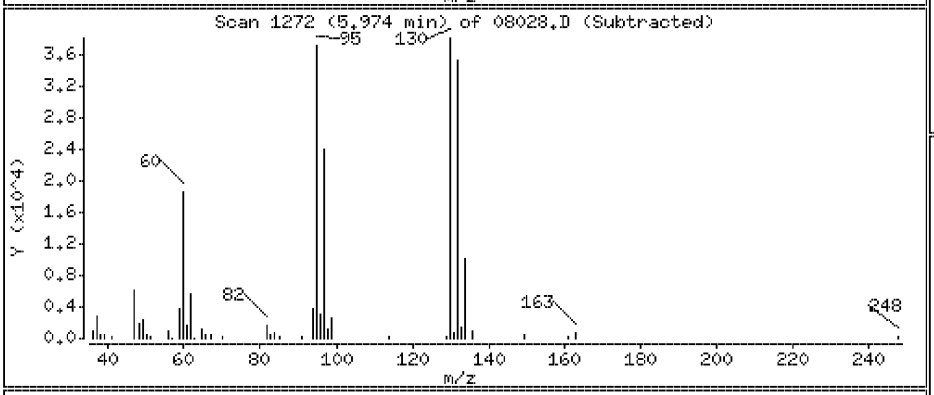
Column phase: J&W DB-5

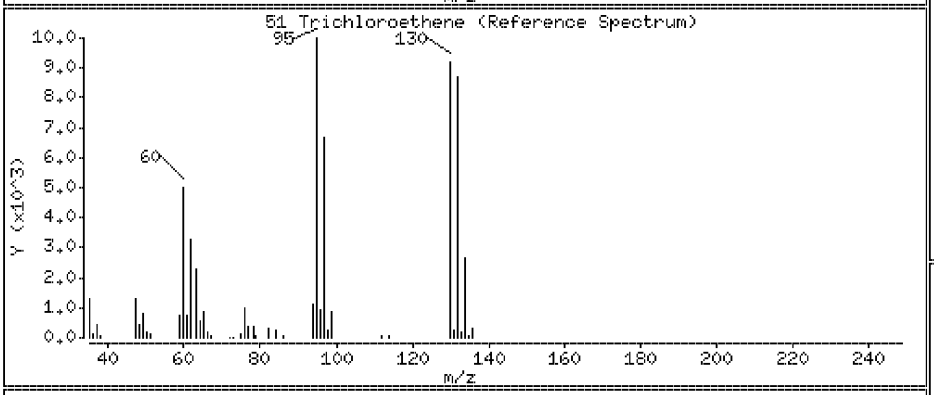
Column diameter: 0.32

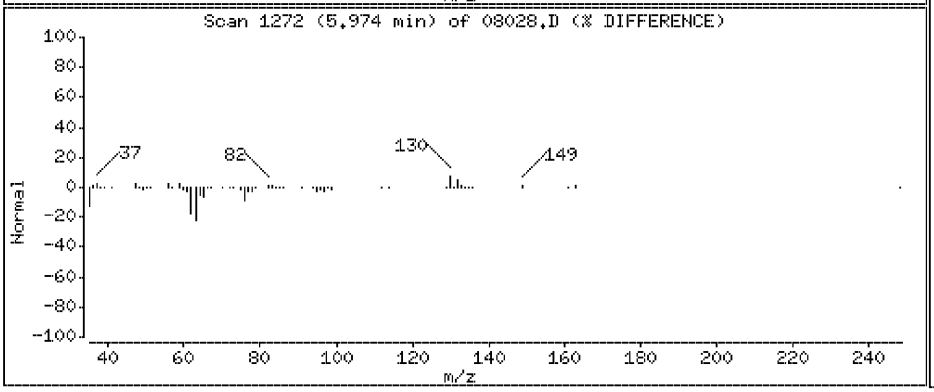
51 Trichloroethene

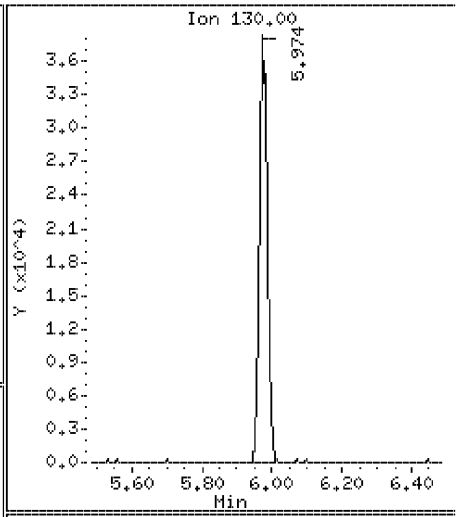
Concentration: 1.21 ppbv

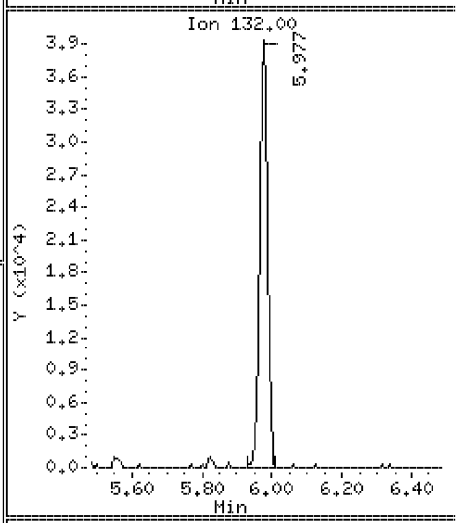


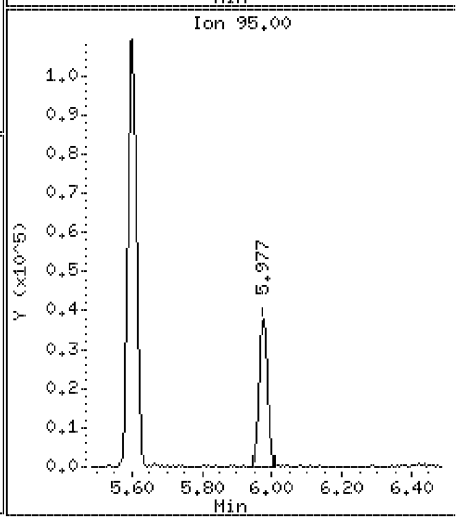












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

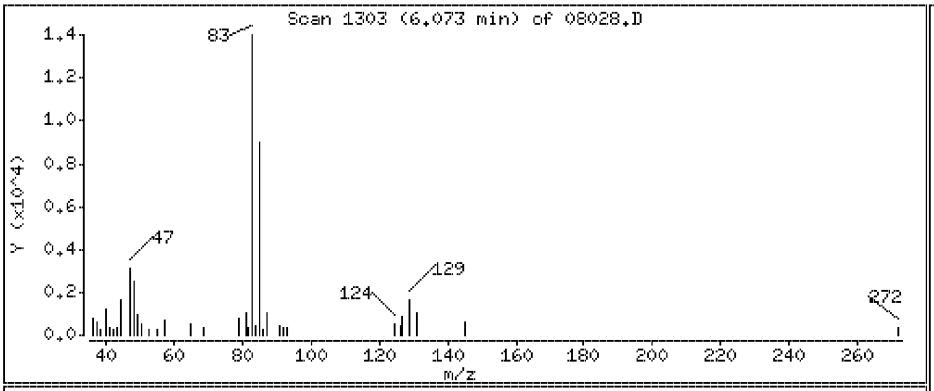
Operator: NCK

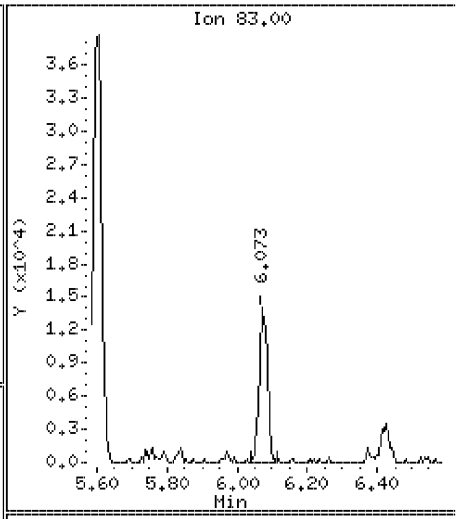
Column phase: J&W DB-5

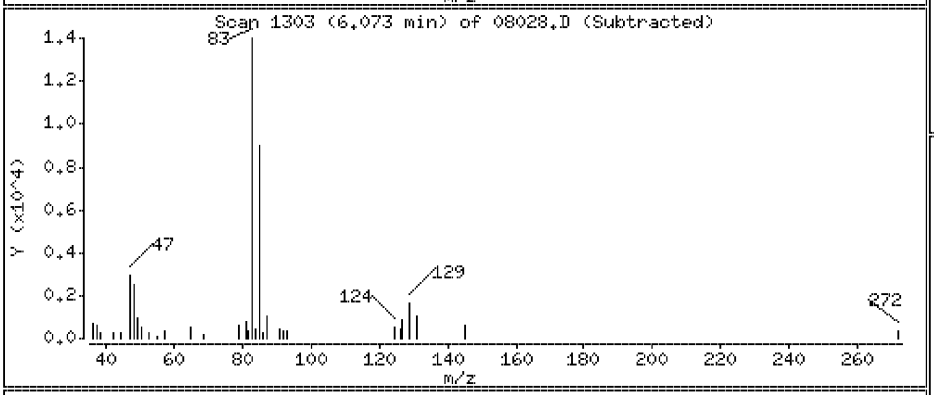
Column diameter: 0.32

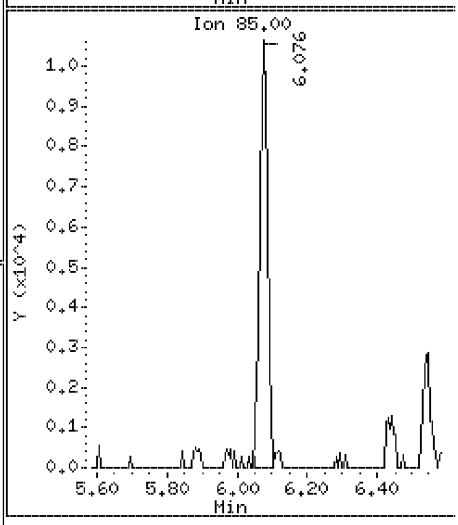
54 Bromodichloromethane

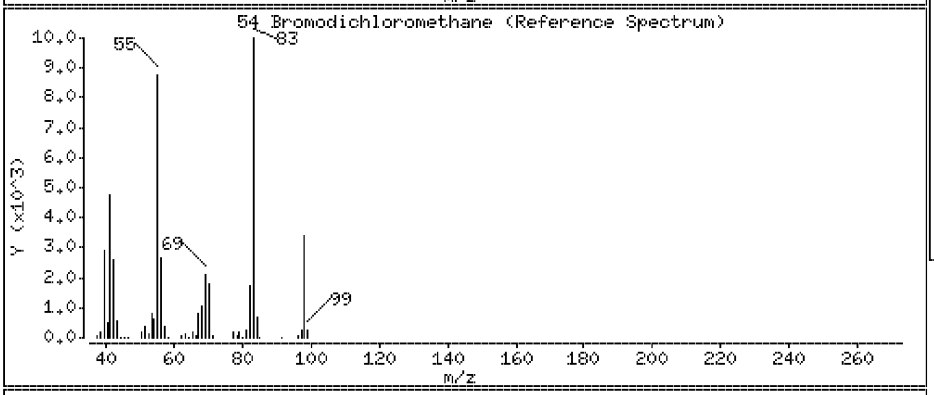
Concentration: 0.302 ppbv

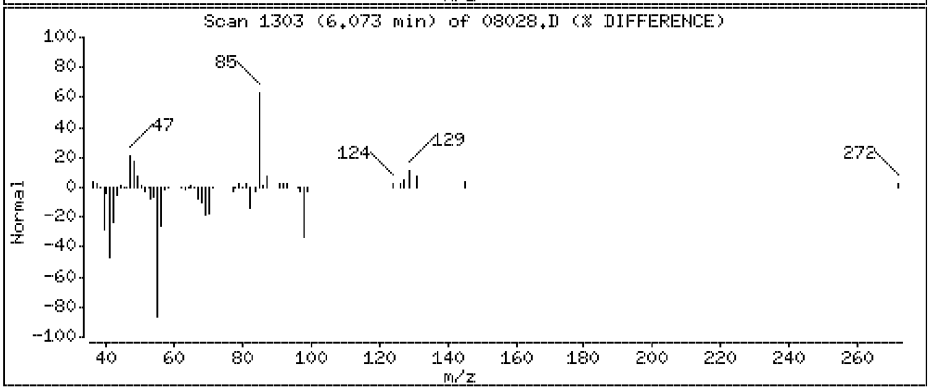












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

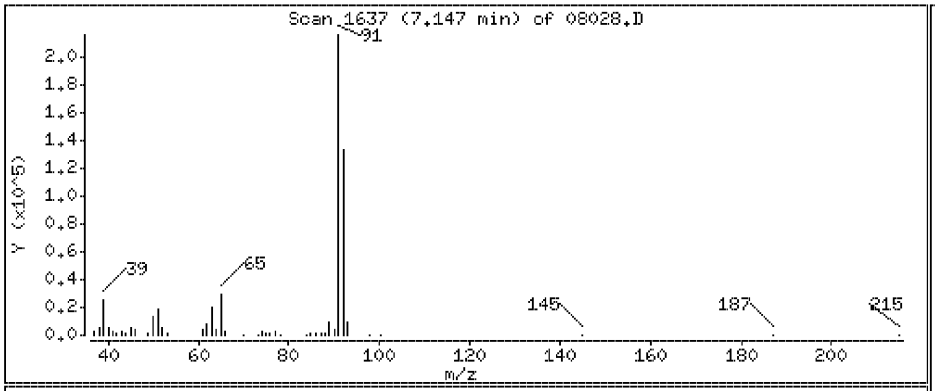
Operator: NCK

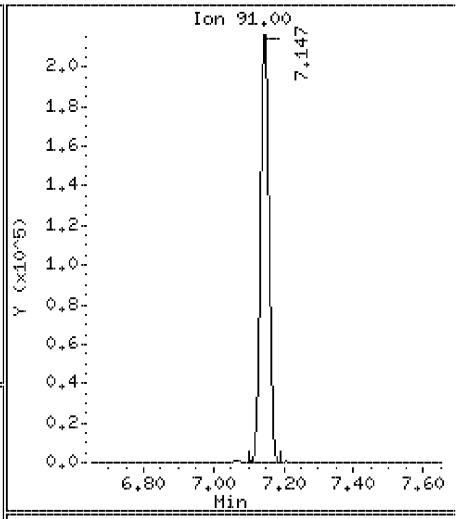
Column phase: J&W DB-5

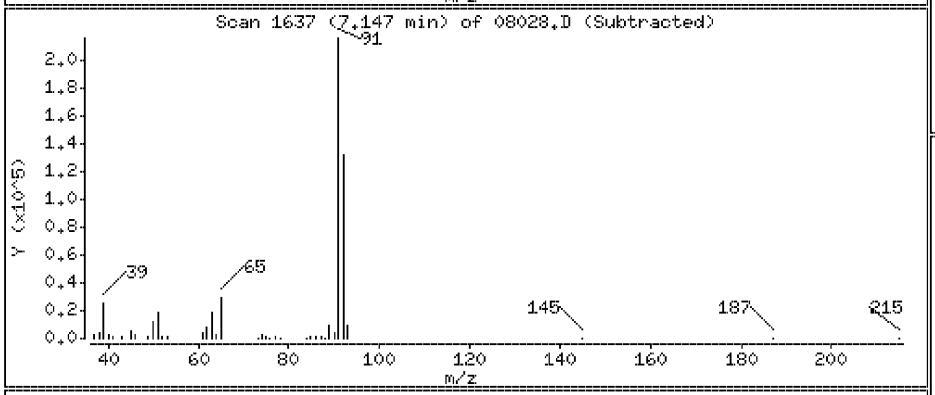
Column diameter: 0.32

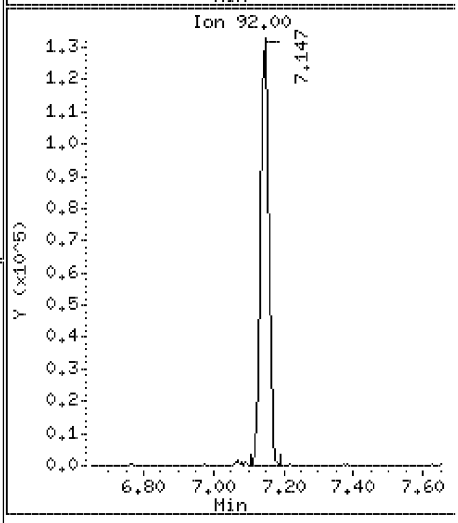
61 Toluene

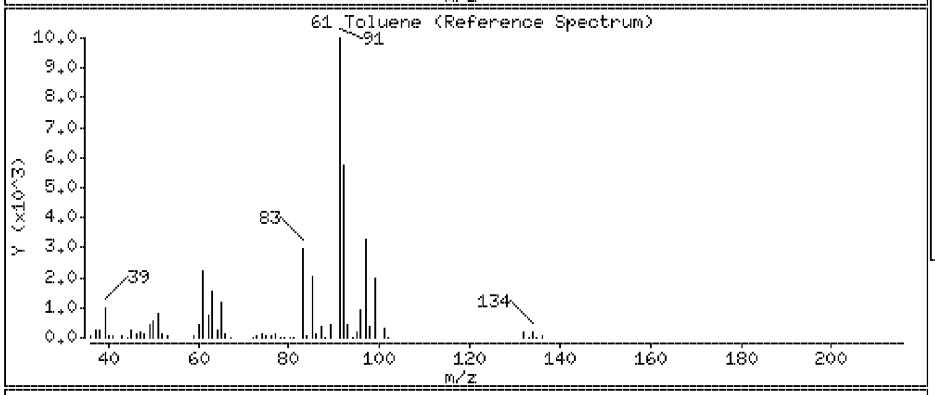
Concentration: 2.91 ppbv

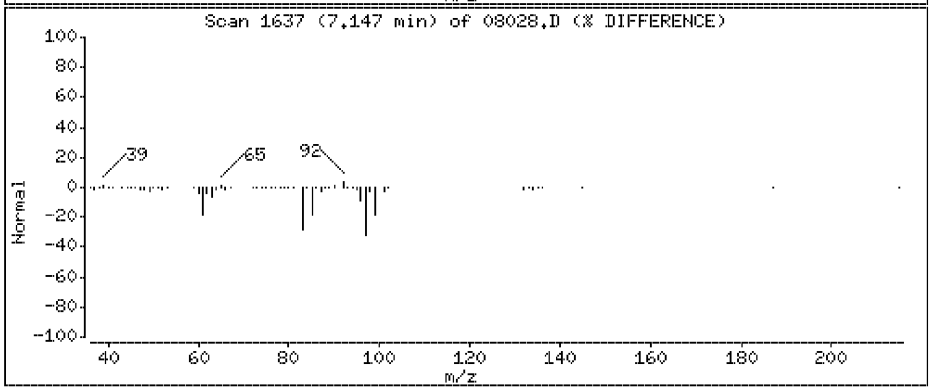












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

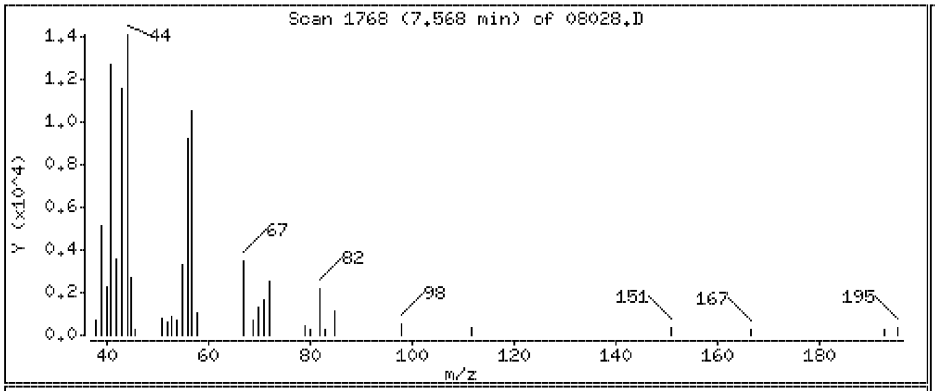
Operator: NCK

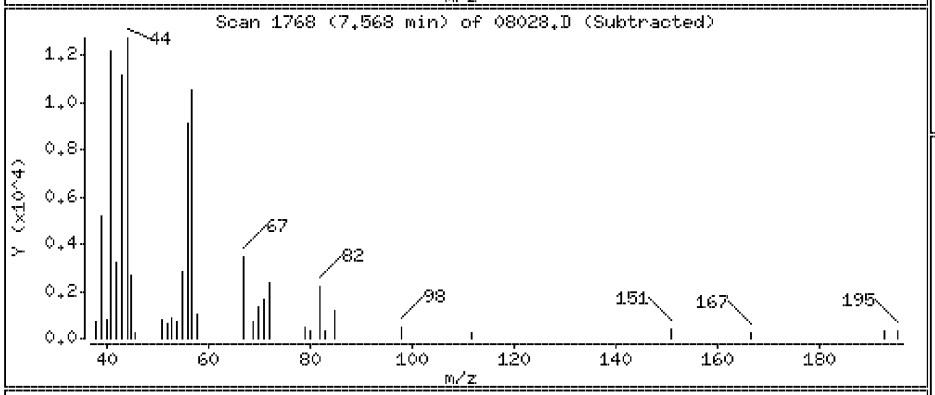
Column phase: J&W DB-5

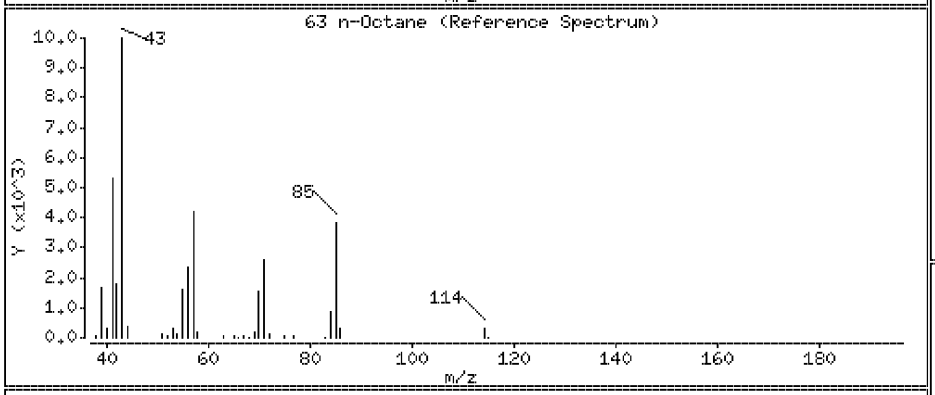
Column diameter: 0.32

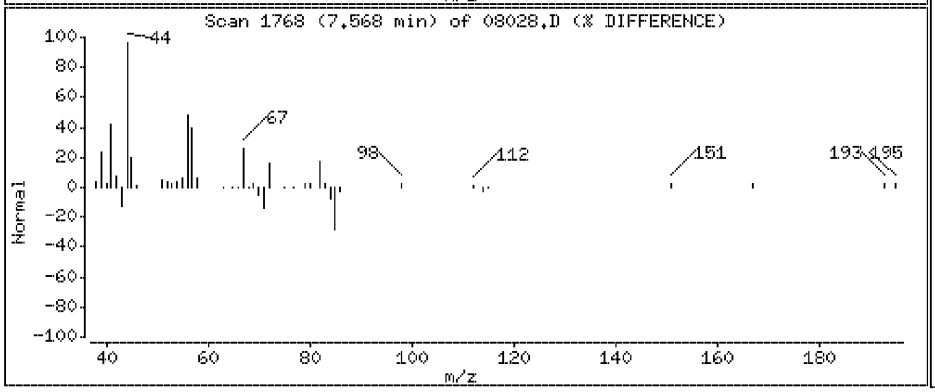
63 n-Octane

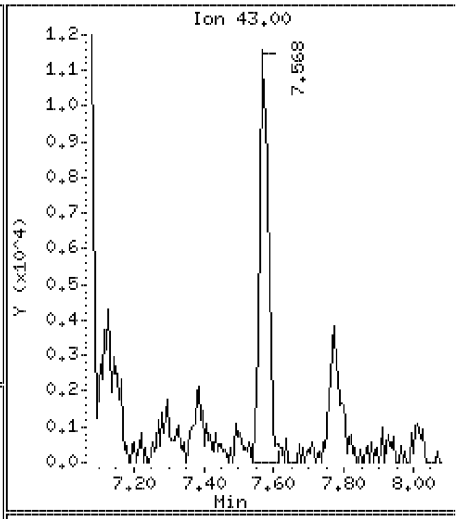
Concentration: 0.234 ppbv

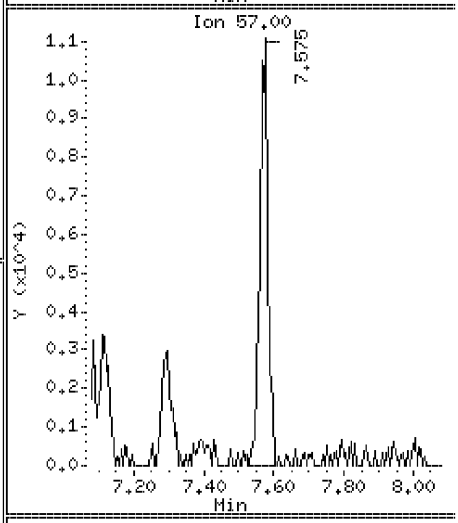


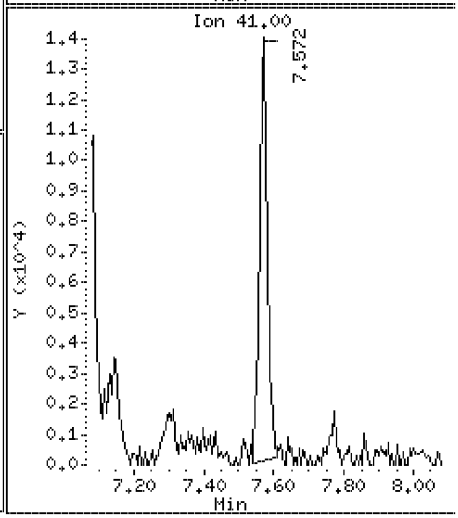












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

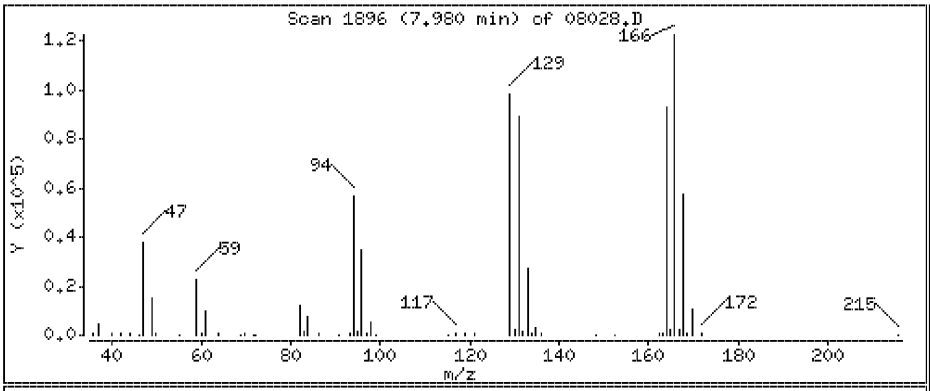
Operator: NCK

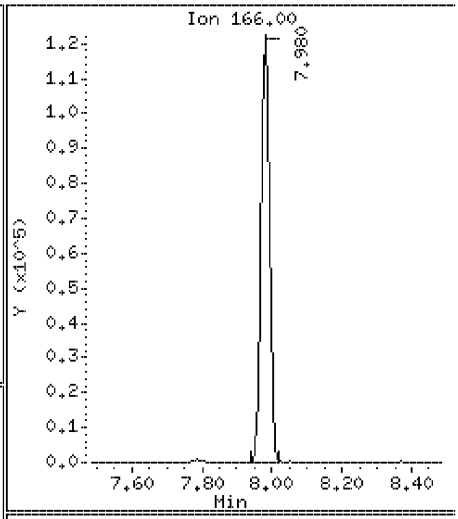
Column phase: J&W DB-5

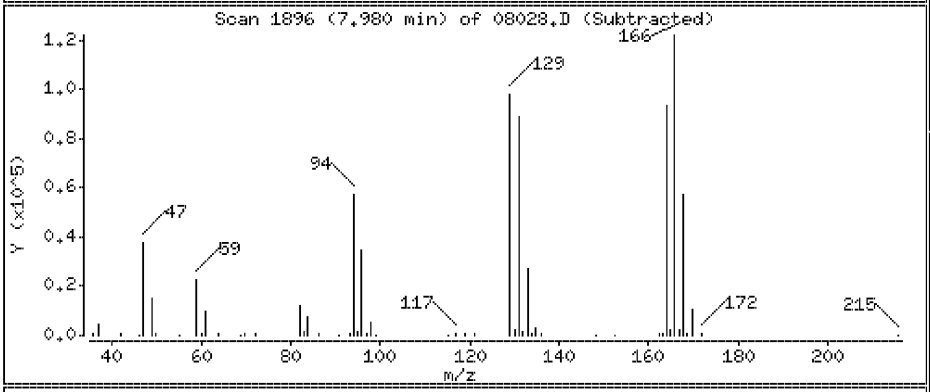
Column diameter: 0.32

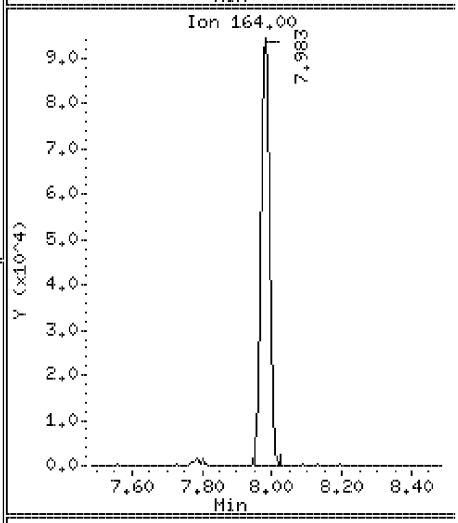
66 Tetrachloroethene

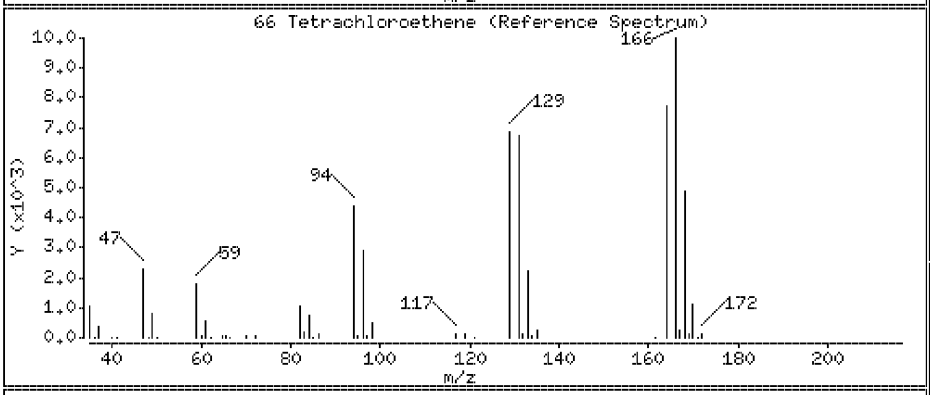
Concentration: 3.87 ppbv

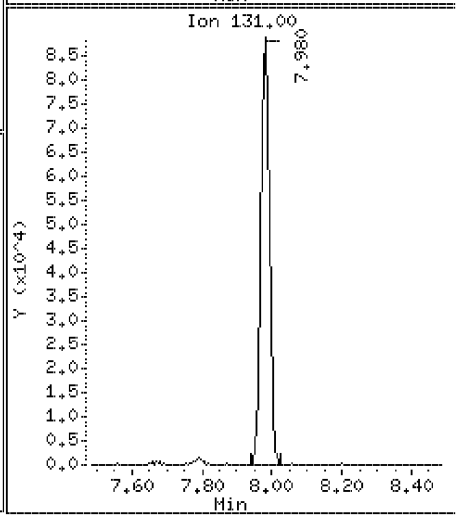


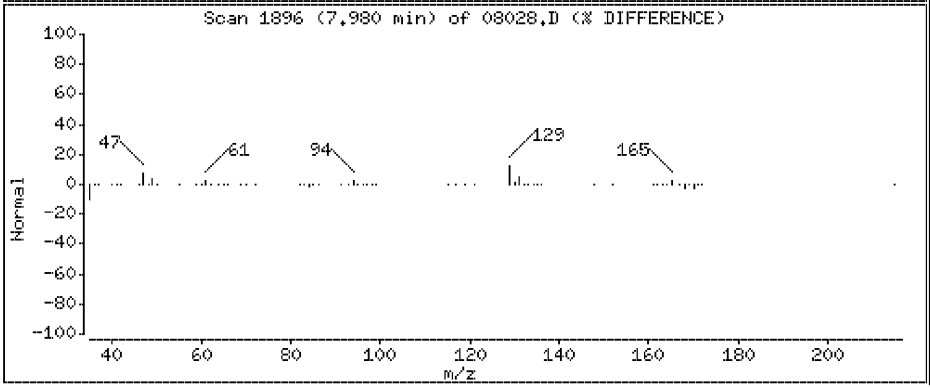












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

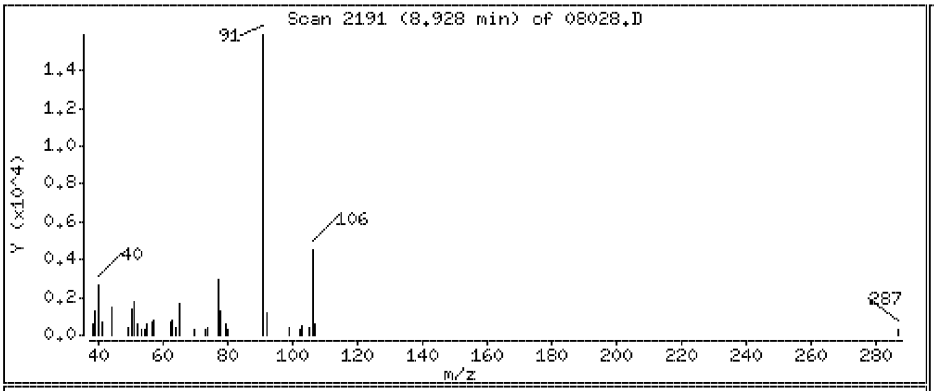
Operator: NCK

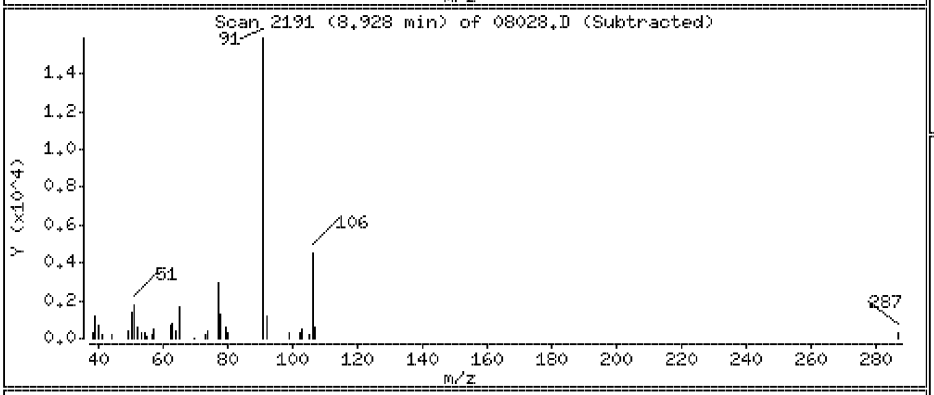
Column phase: J&W DB-5

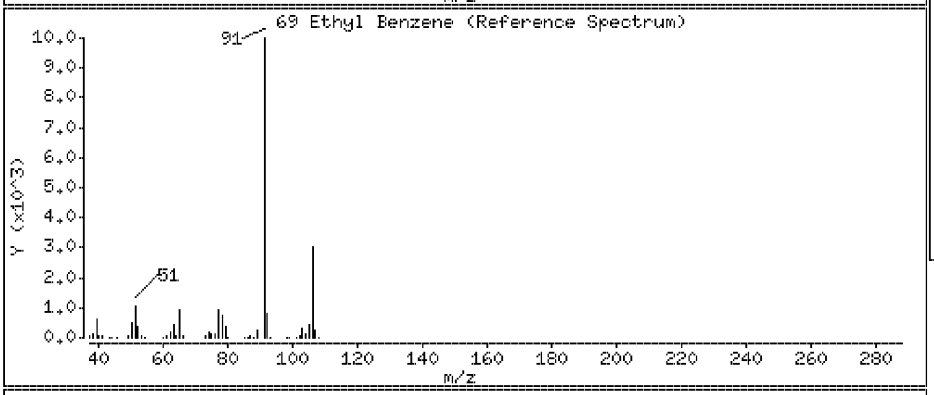
Column diameter: 0.32

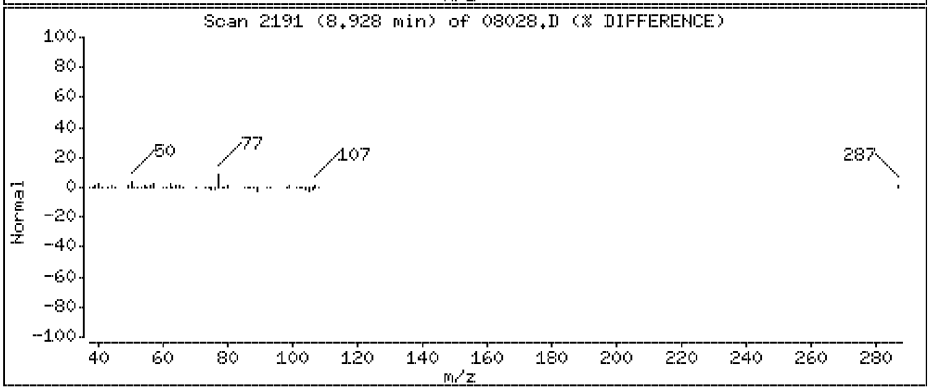
69 Ethyl Benzene

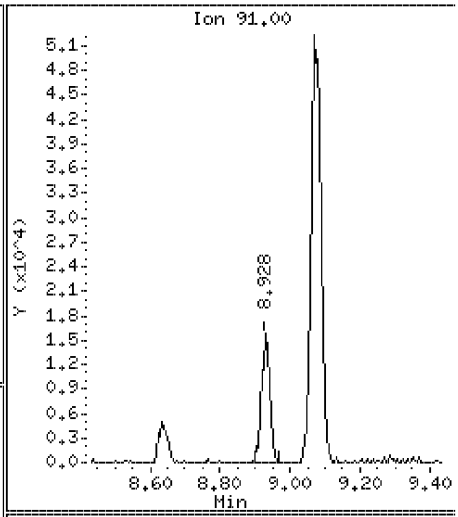
Concentration: 0.191 ppbv

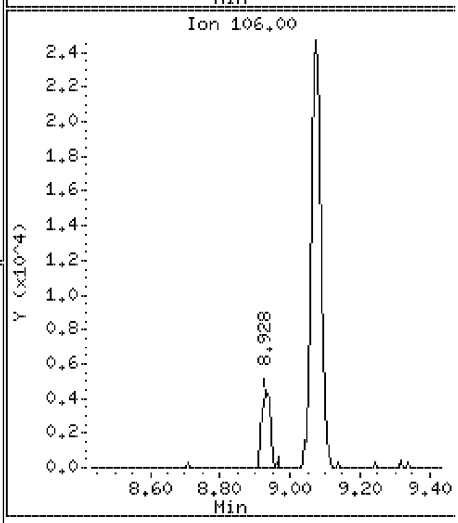












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

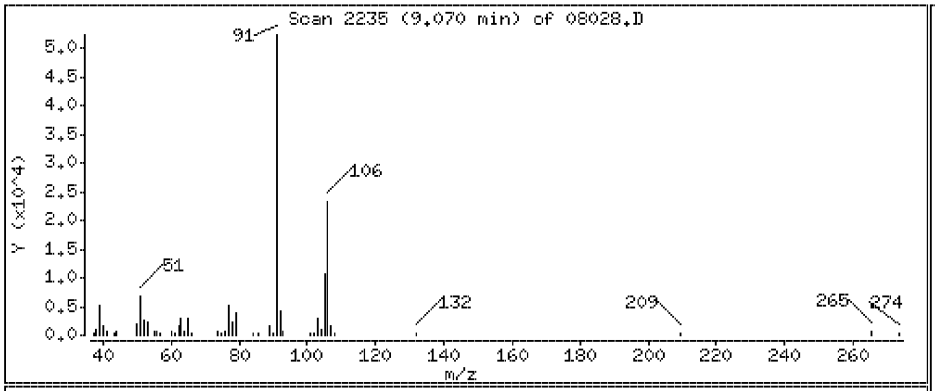
Operator: NCK

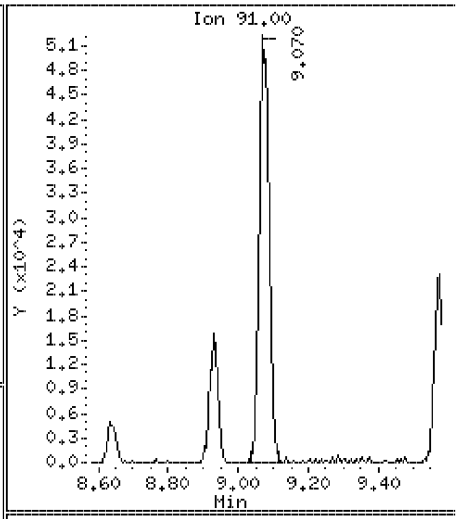
Column phase: J&W DB-5

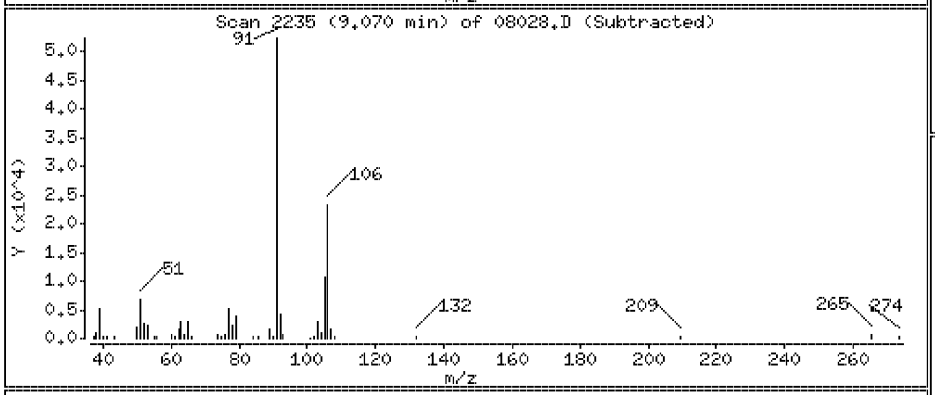
Column diameter: 0.32

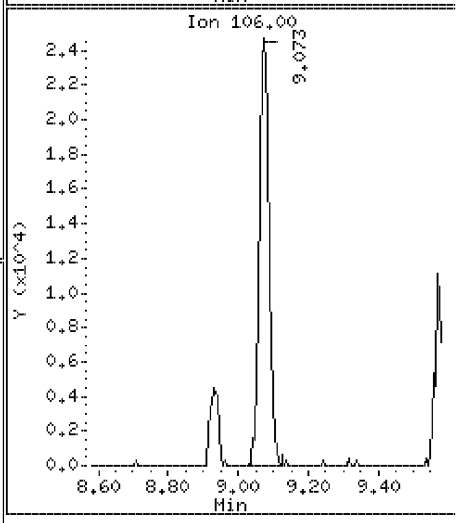
70 m&p-Xylene

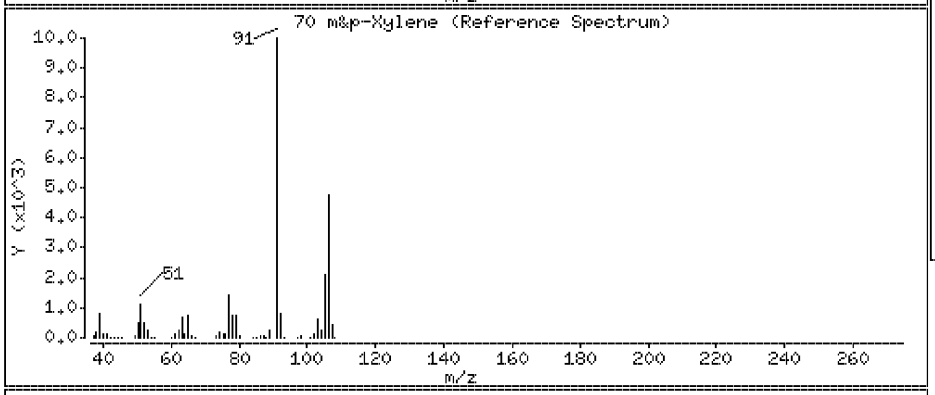
Concentration: 1.06 ppbv

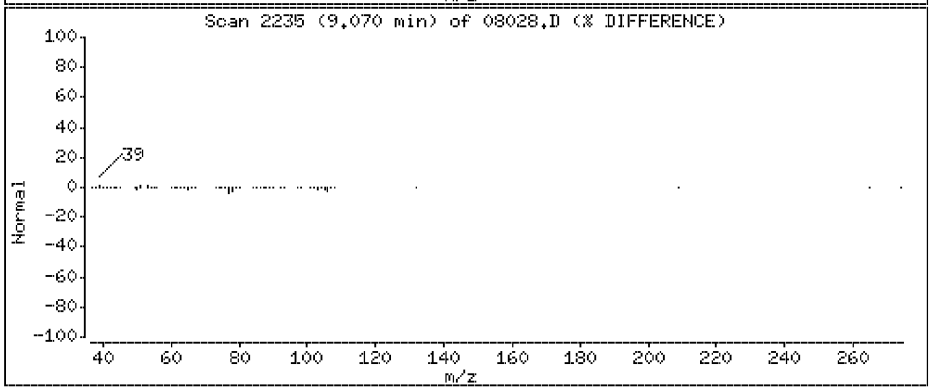












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

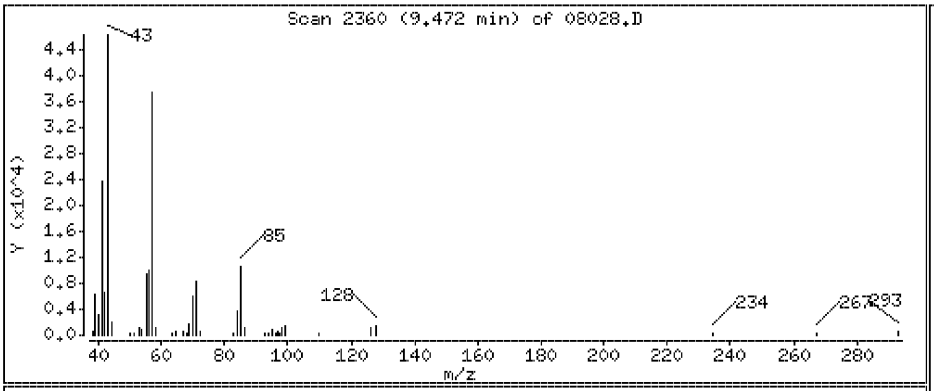
Operator: NCK

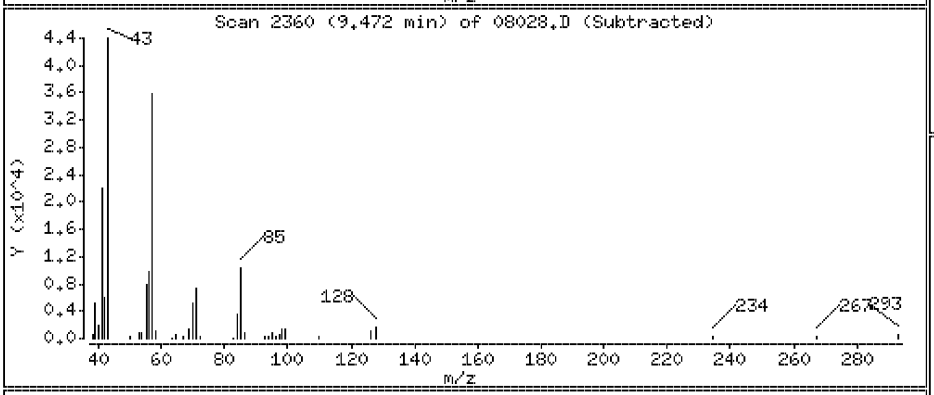
Column phase: J&W DB-5

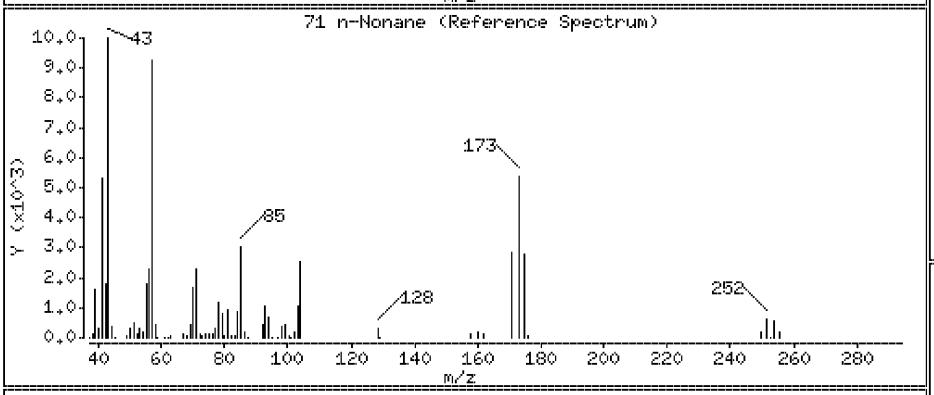
Column diameter: 0.32

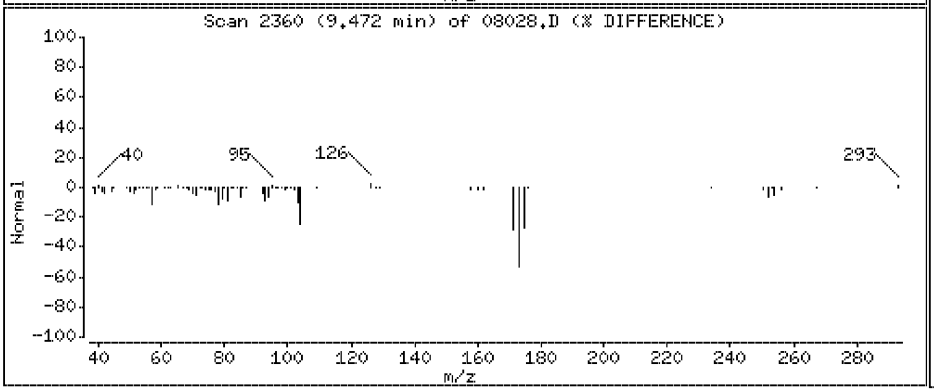
71 n-Nonane

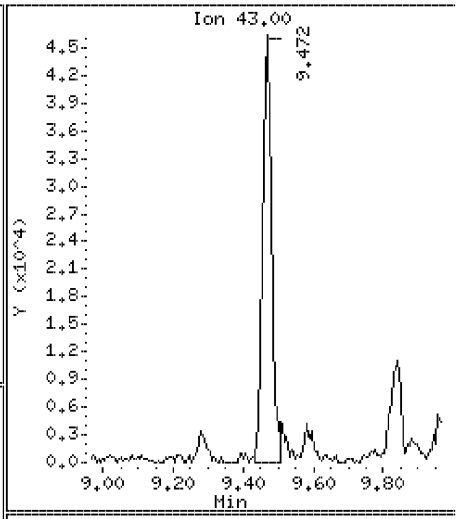
Concentration: 1.15 ppbv

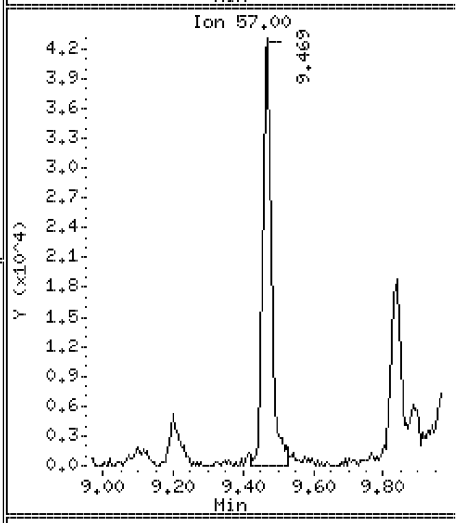


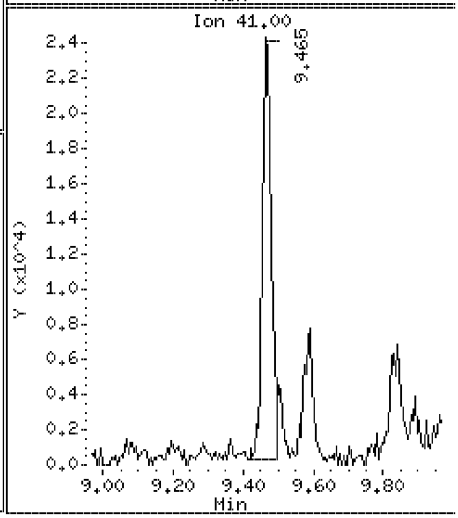












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

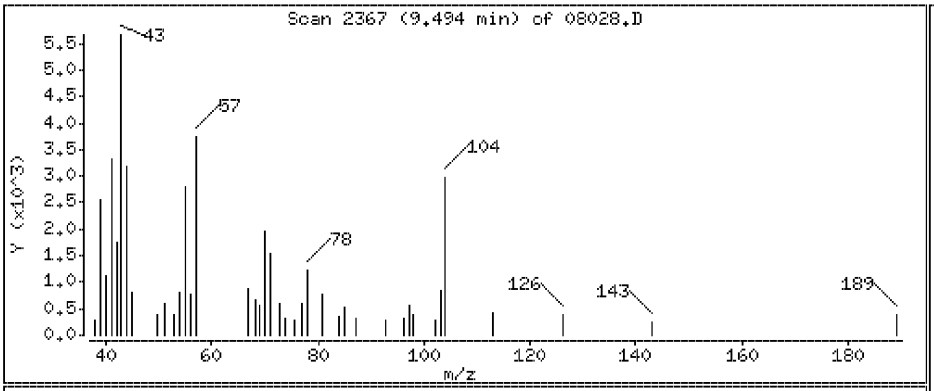
Operator: NCK

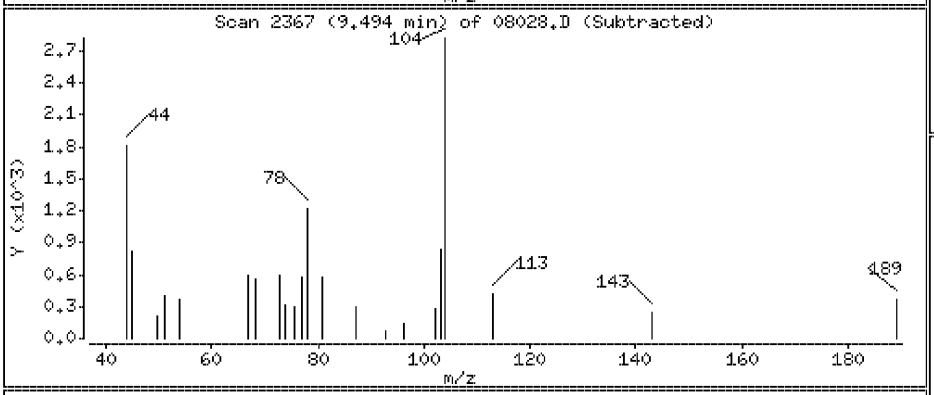
Column phase: J&W DB-5

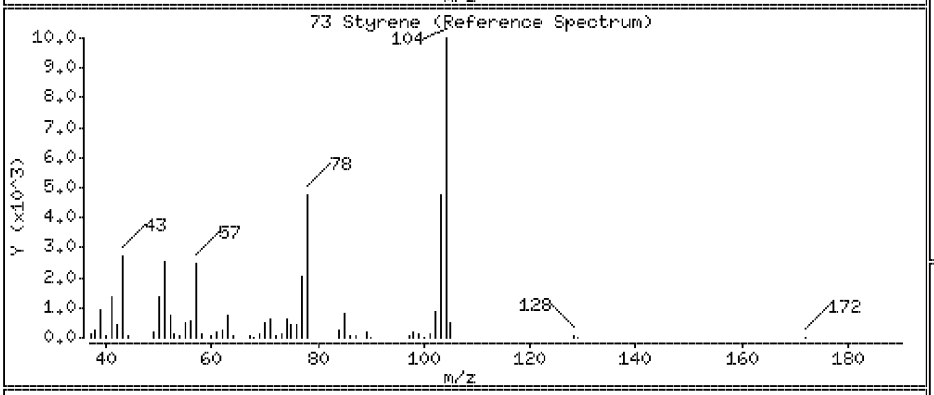
Column diameter: 0.32

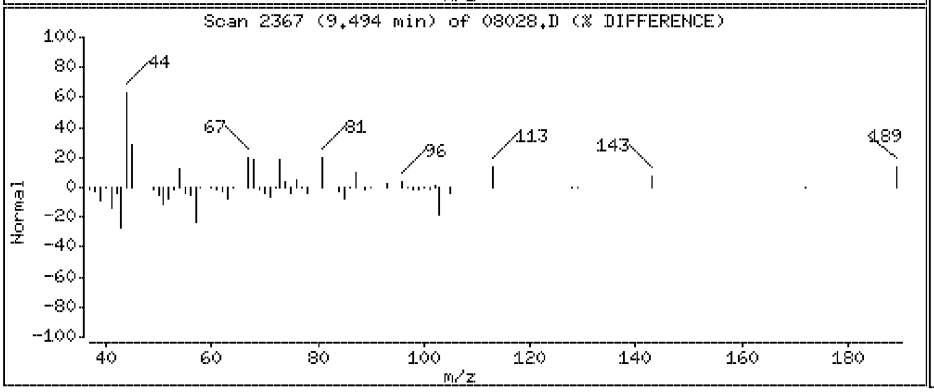
73 Styrene

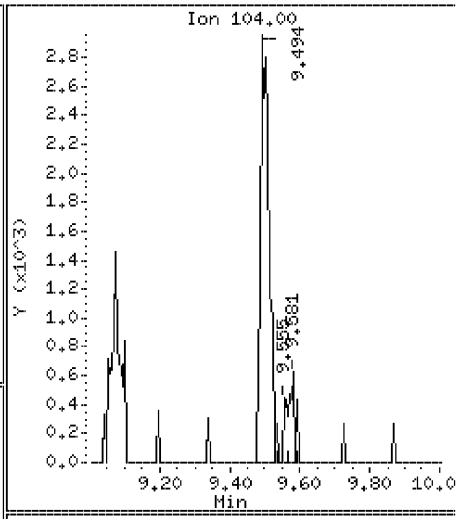
Concentration: 0.279 ppbv

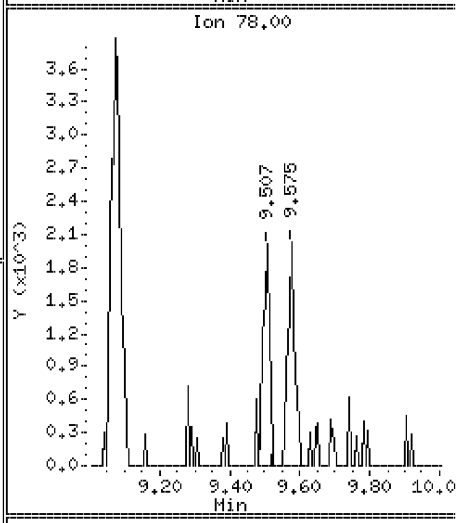


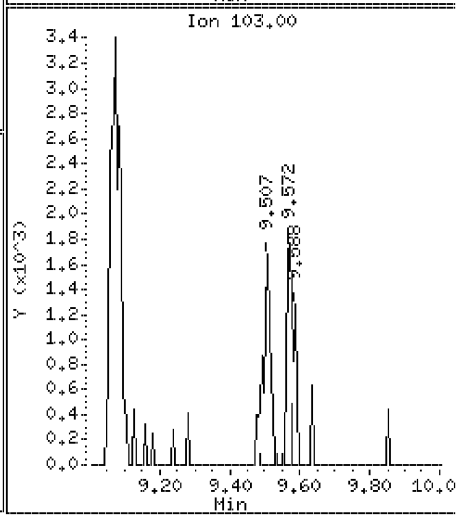












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

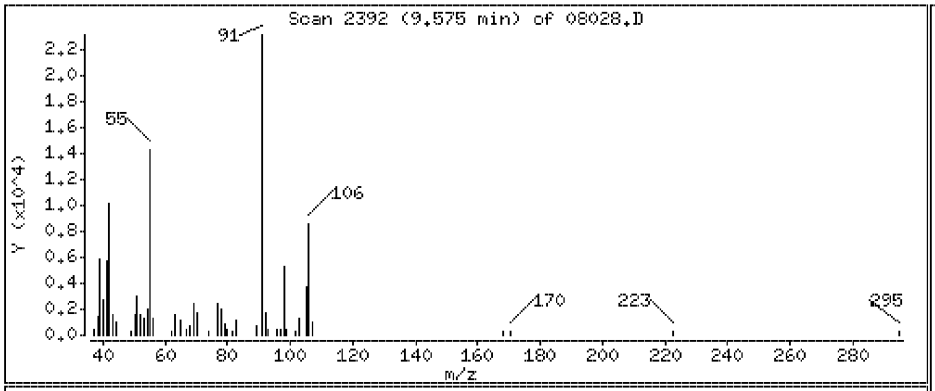
Operator: NCK

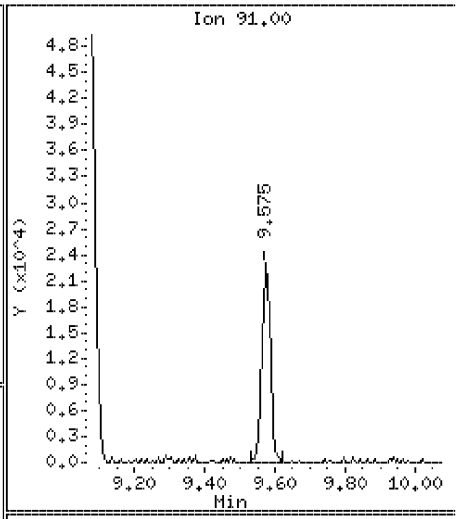
Column phase: J&W DB-5

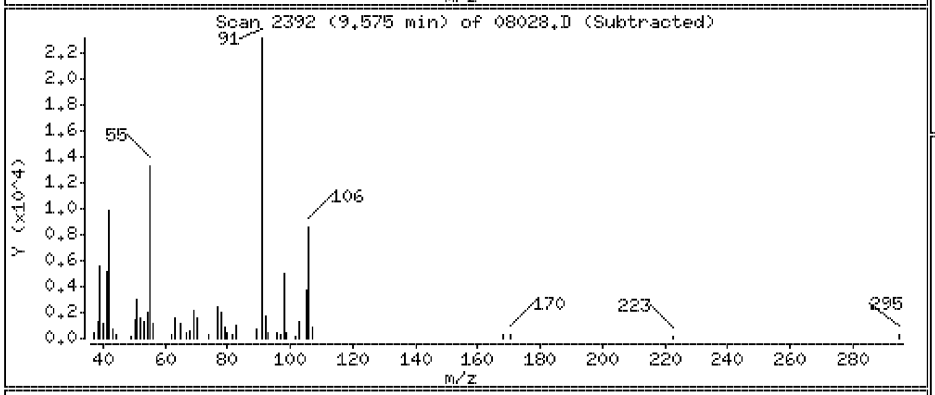
Column diameter: 0.32

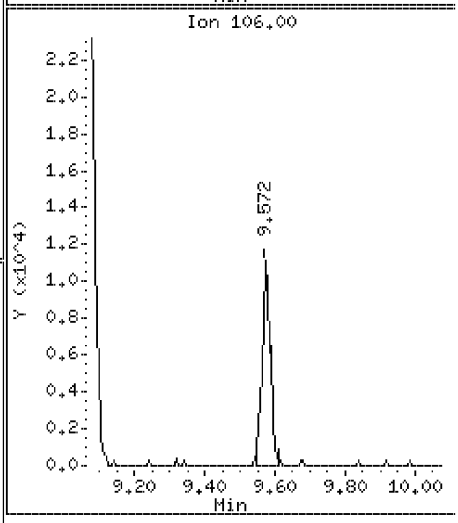
74 o-Xylene

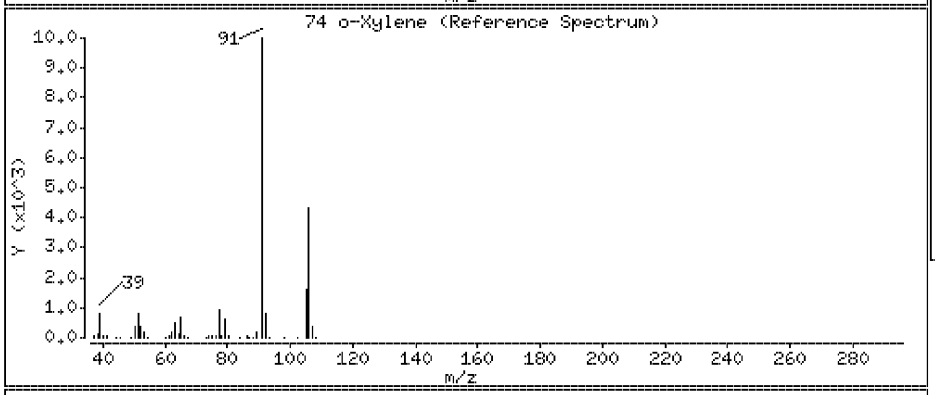
Concentration: 0.379 ppbv

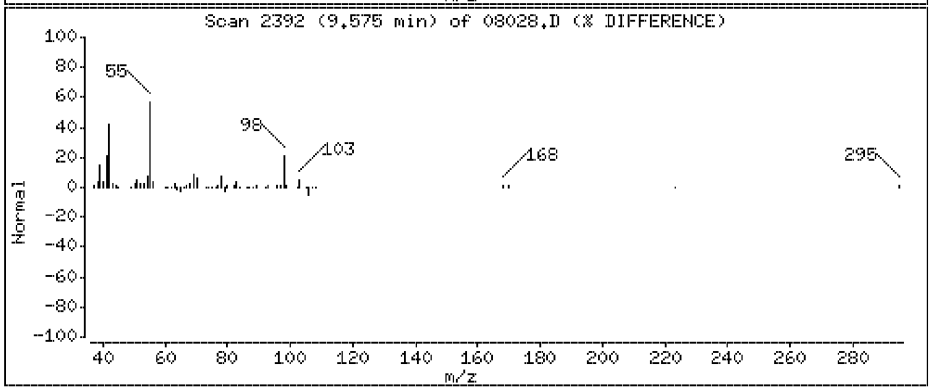












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

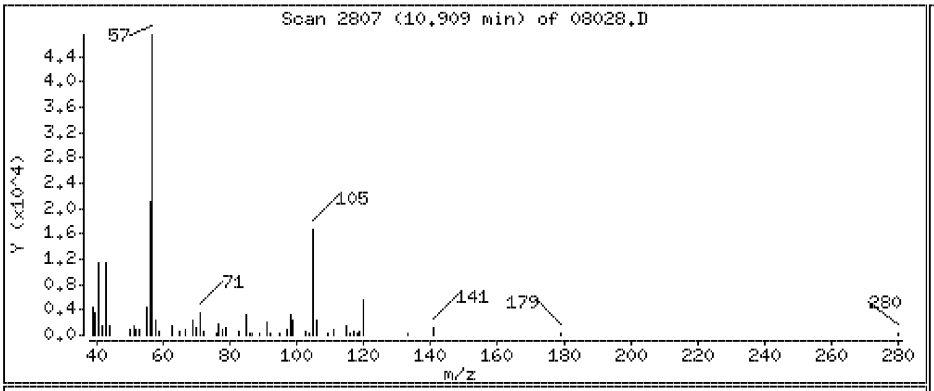
Operator: NCK

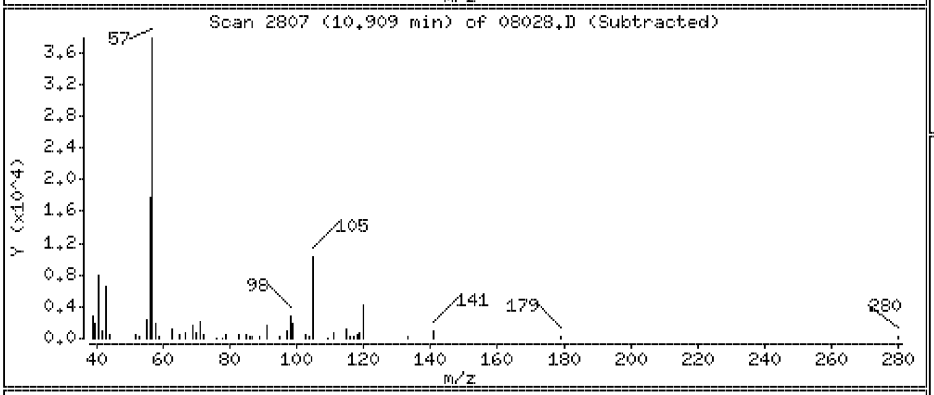
Column phase: J&W DB-5

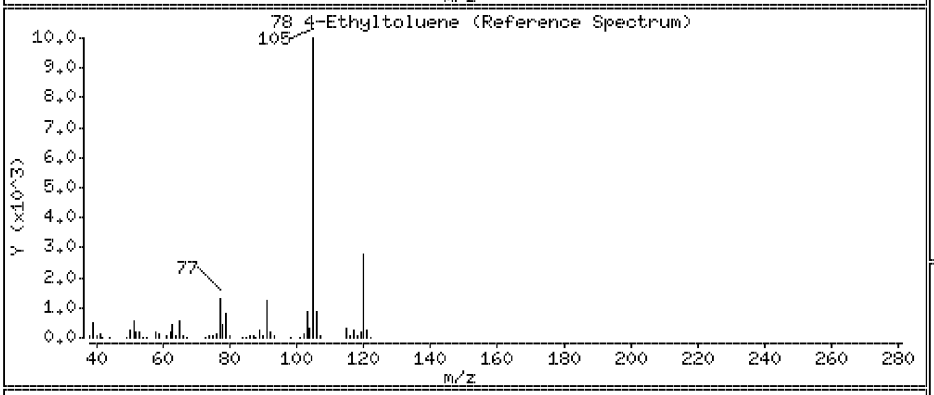
Column diameter: 0.32

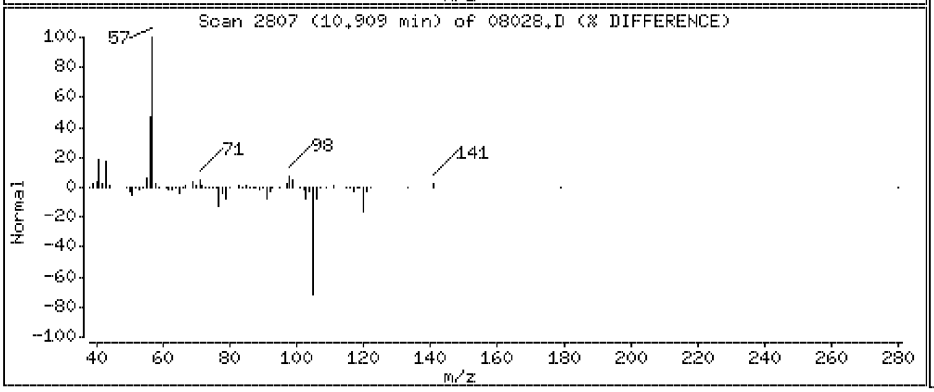
78 4-Ethyltoluene

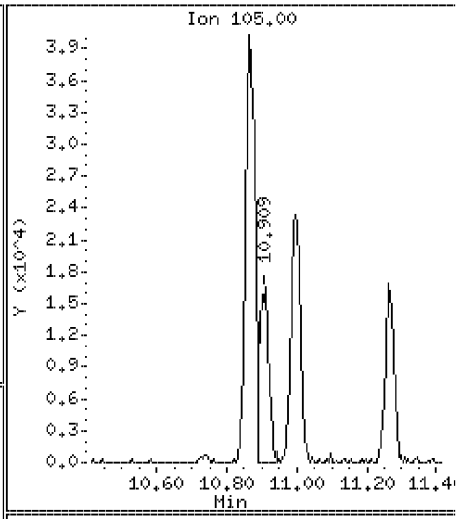
Concentration: 0.463 ppbv

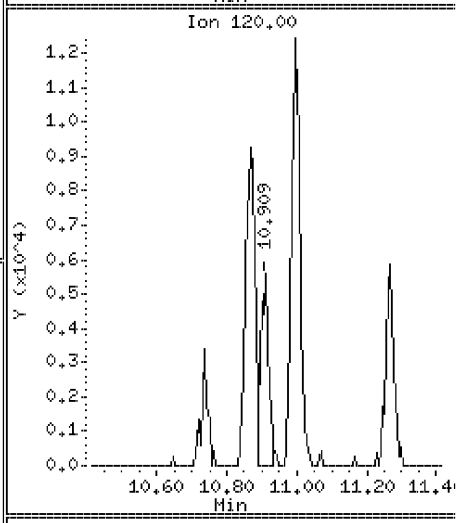


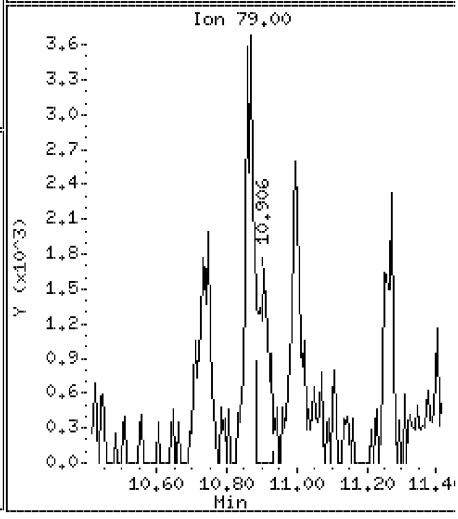












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

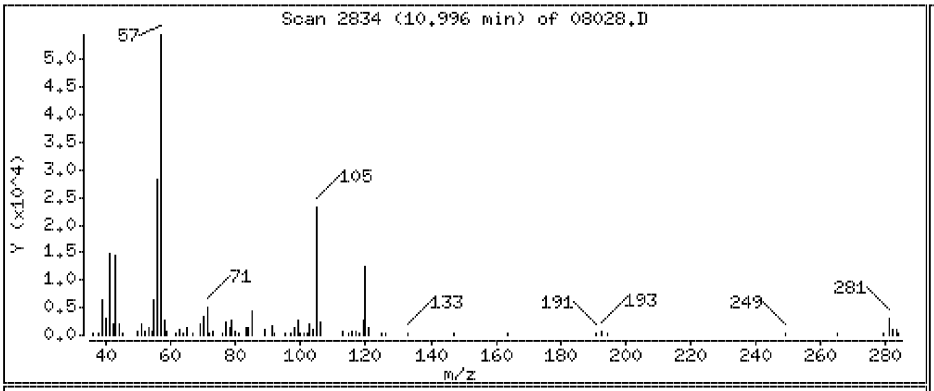
Operator: NCK

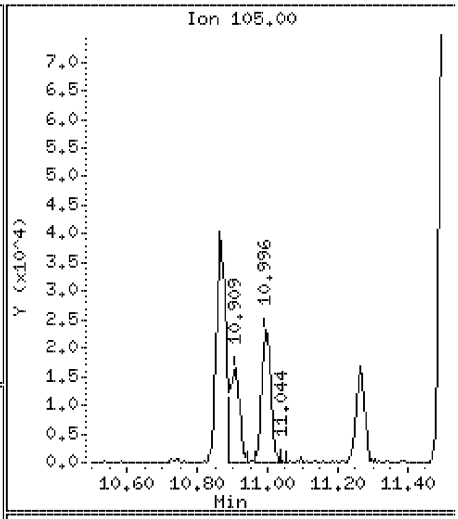
Column phase: J&W DB-5

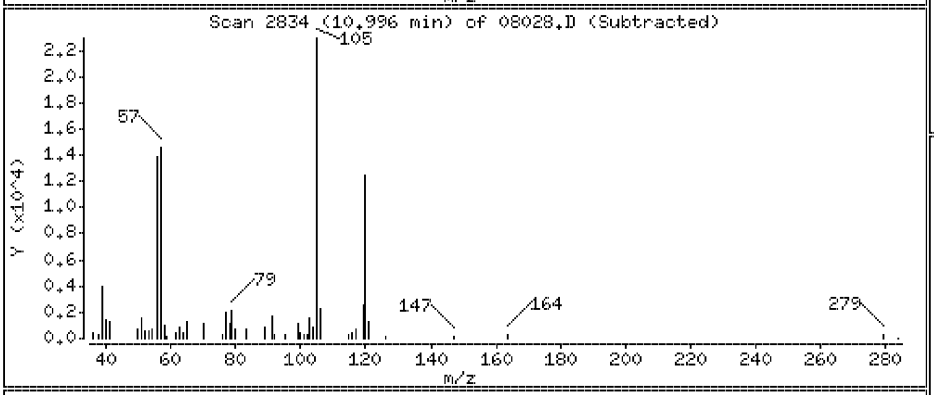
Column diameter: 0.32

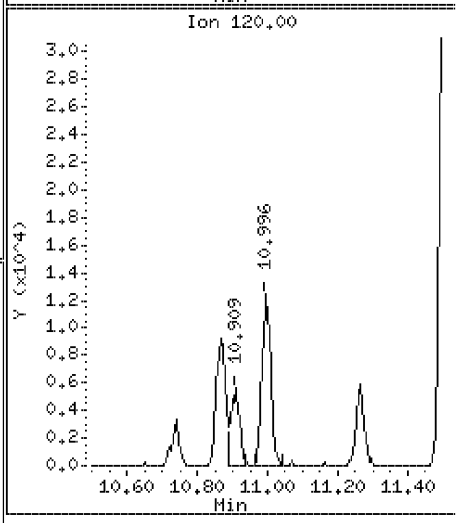
79 1,3,5-Trimethylbenzene

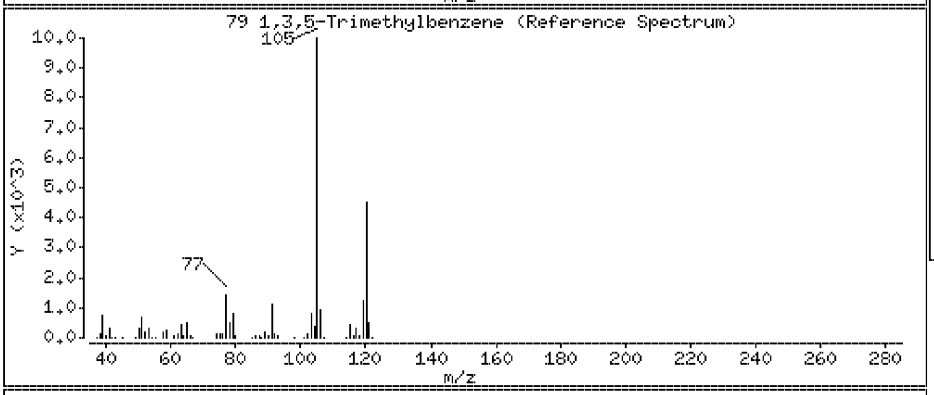
Concentration: 0.552 ppbv

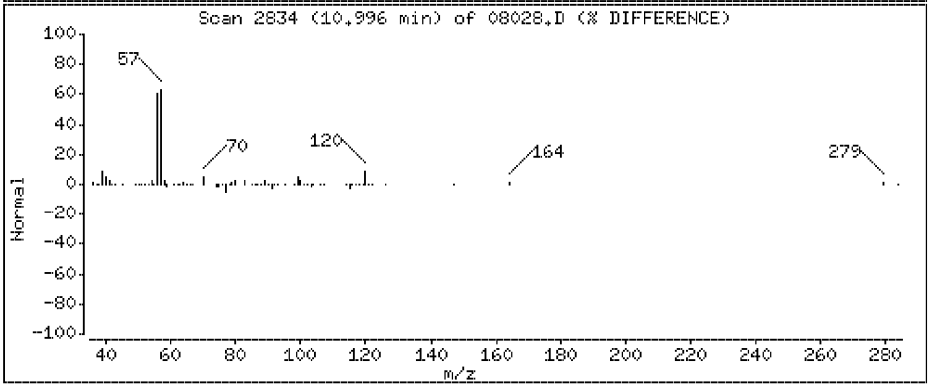












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

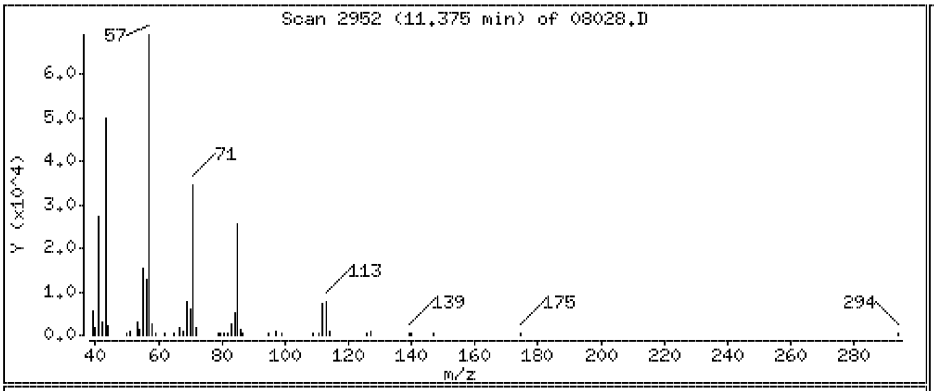
Operator: NCK

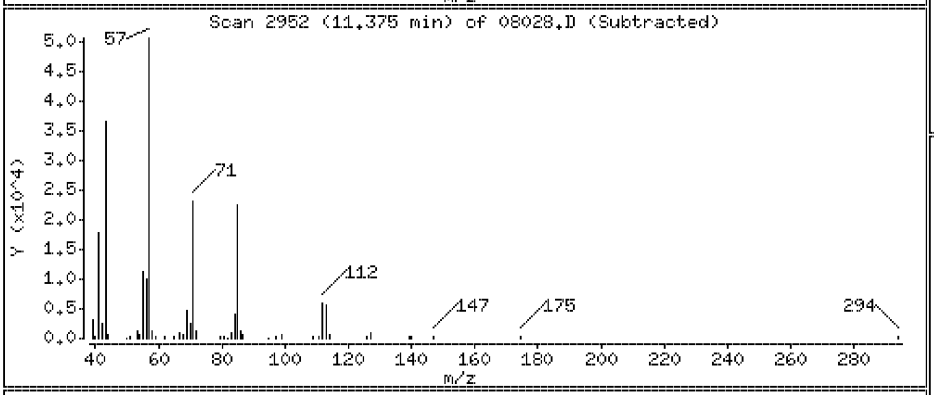
Column phase: J&W DB-5

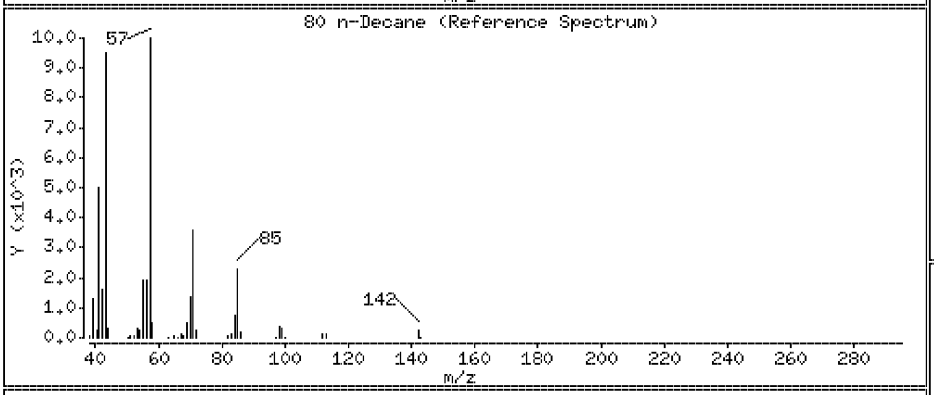
Column diameter: 0.32

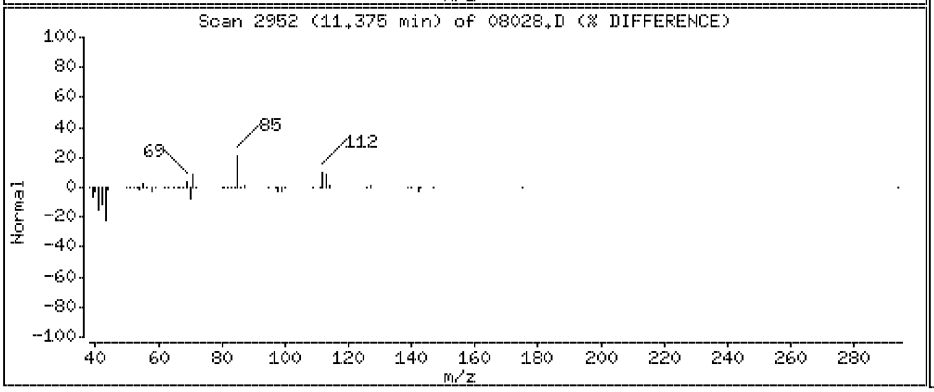
80 n-Decane

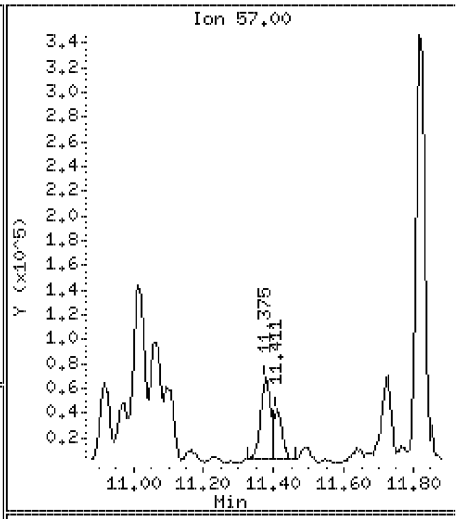
Concentration: 1.76 ppbv

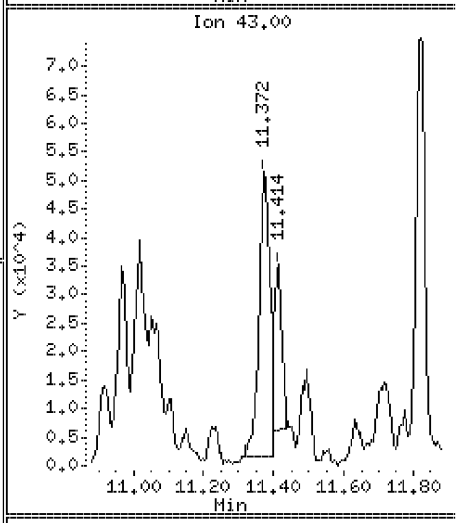


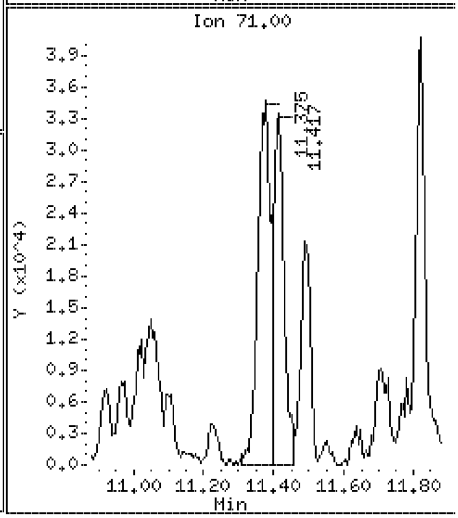












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

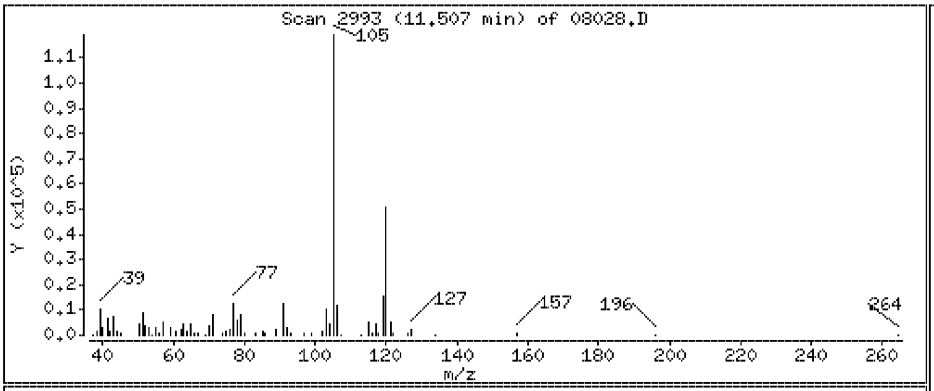
Operator: NCK

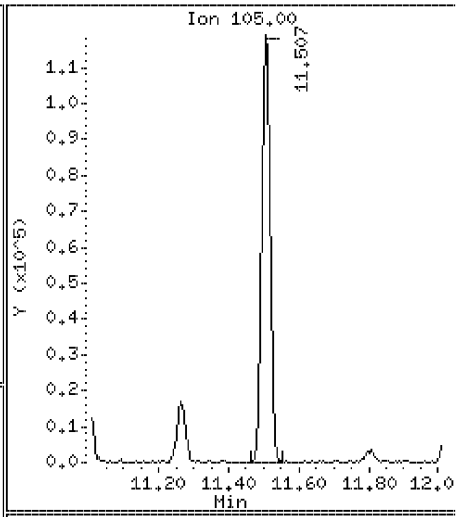
Column phase: J&W DB-5

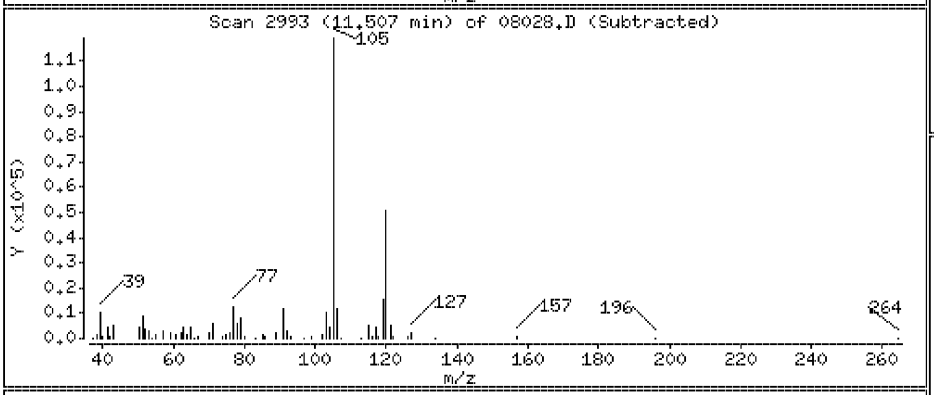
Column diameter: 0.32

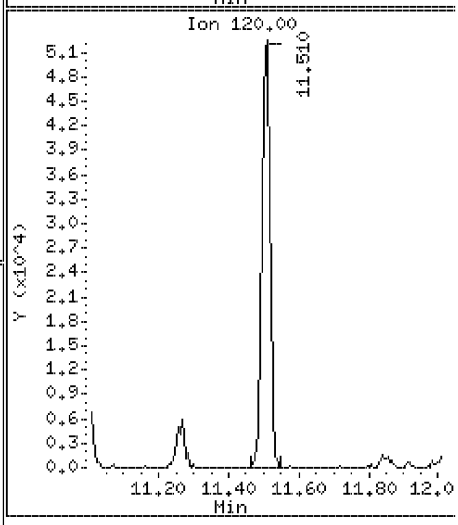
82 1,2,4-Trimethylbenzene

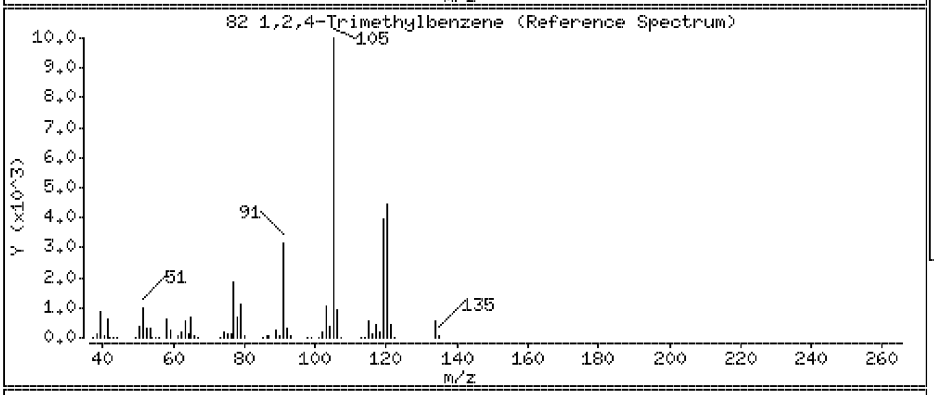
Concentration: 1.76 ppbv

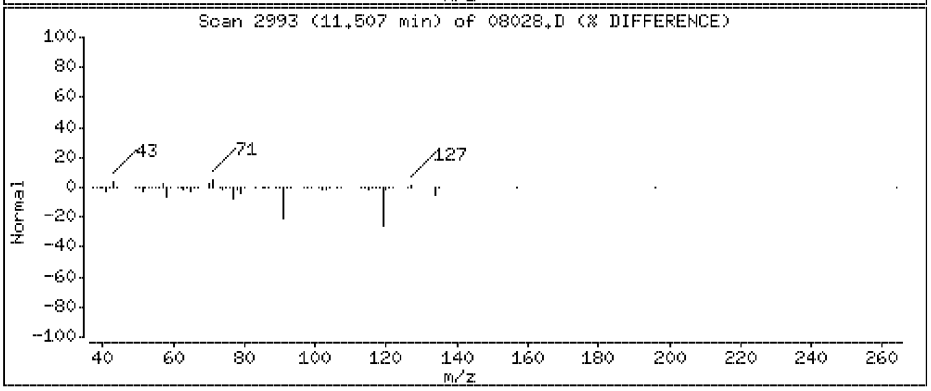












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

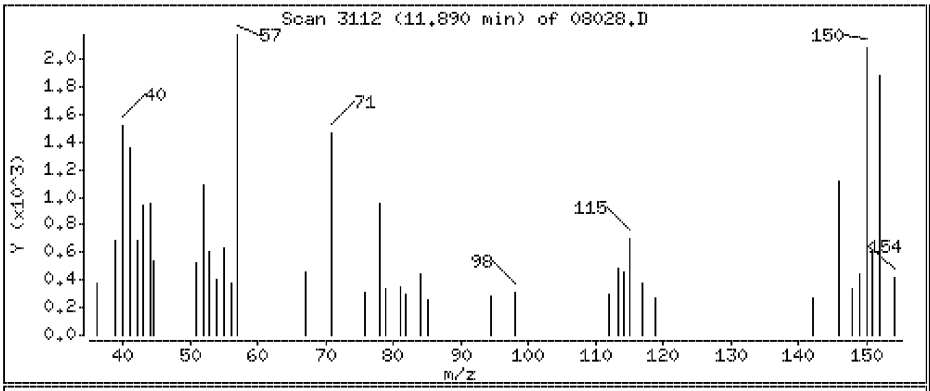
Operator: NCK

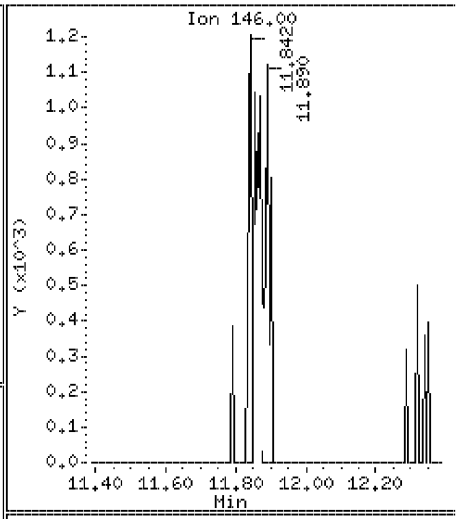
Column phase: J&W DB-5

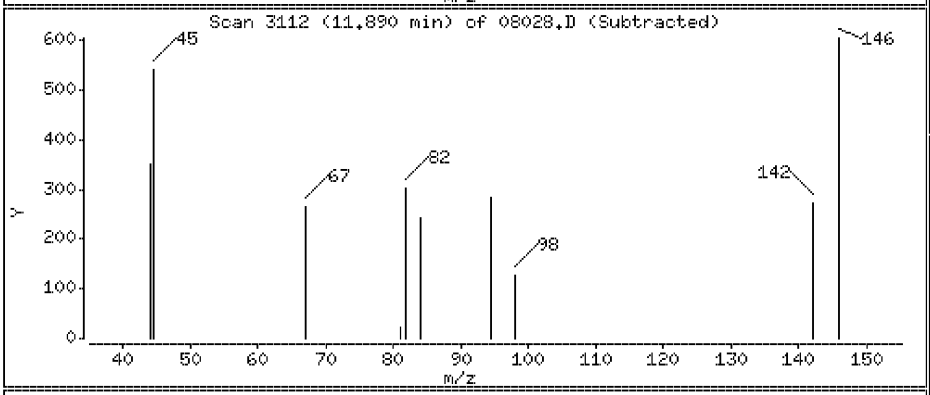
Column diameter: 0.32

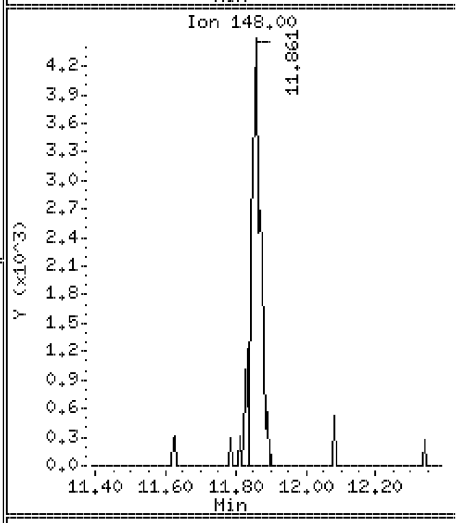
87 1,4-Dichlorobenzene

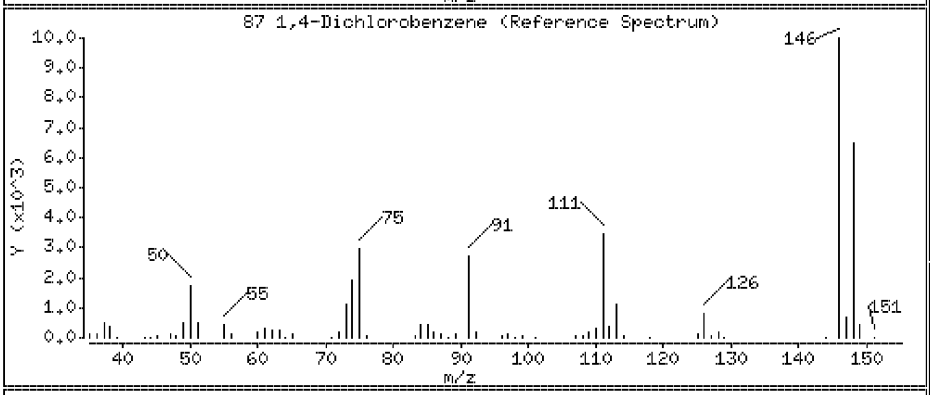
Concentration: 0.262 ppbv

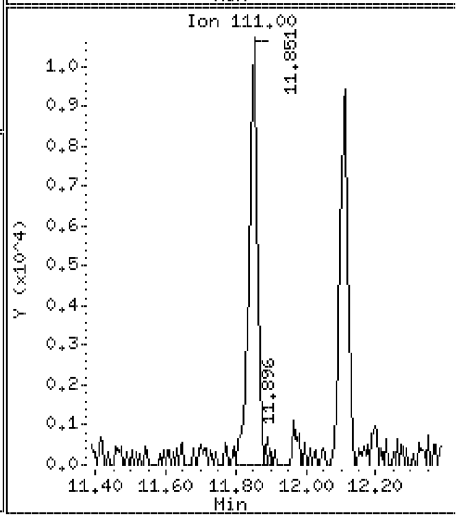


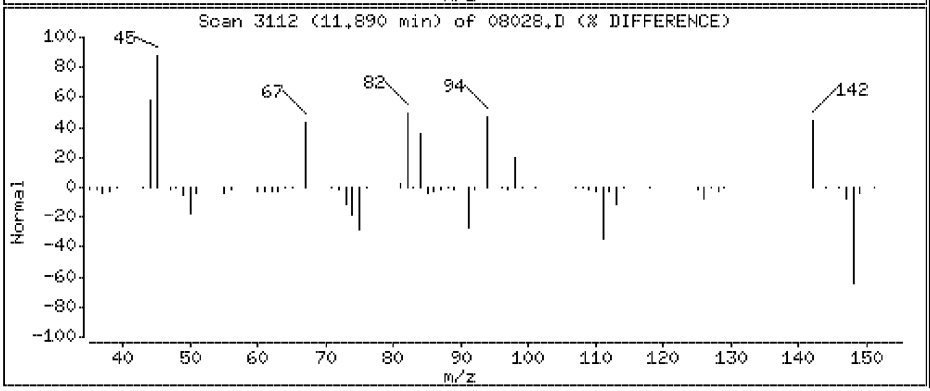












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

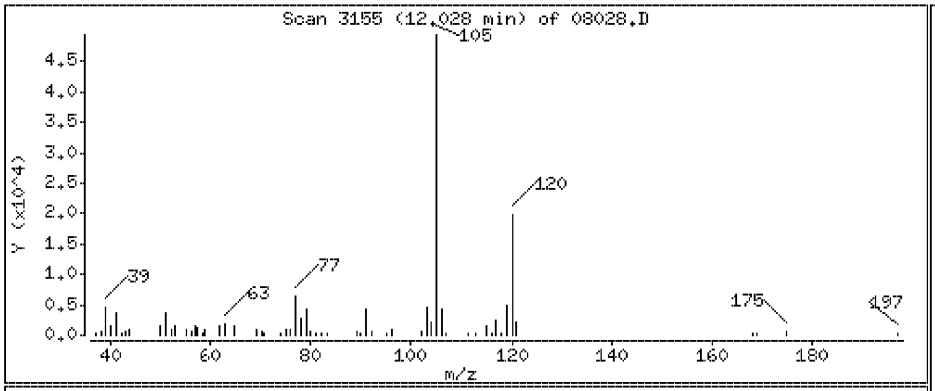
Operator: NCK

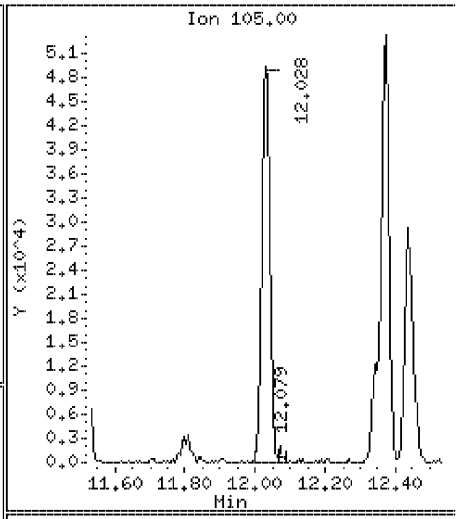
Column phase: J&W DB-5

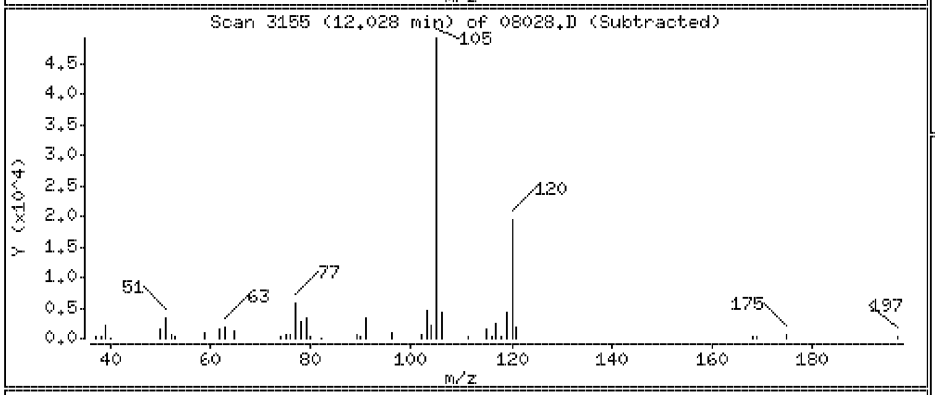
Column diameter: 0.32

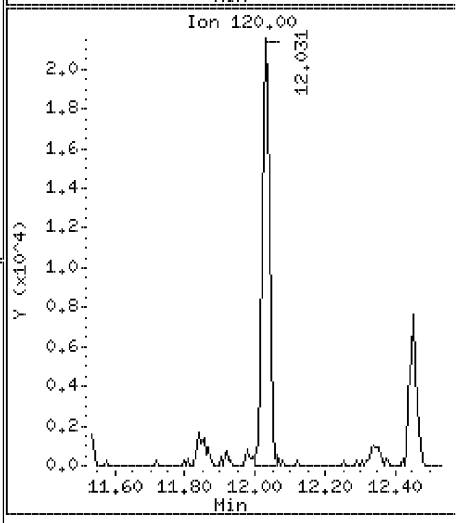
89 1,2,3-Trimethylbenzene

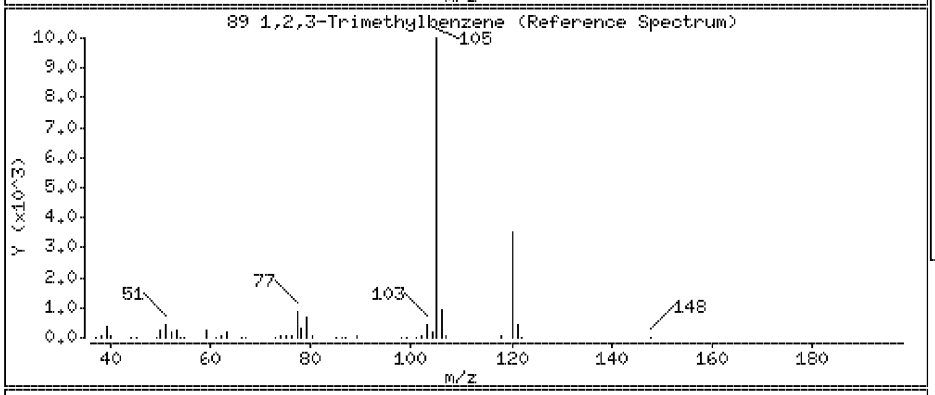
Concentration: 0.876 ppbv

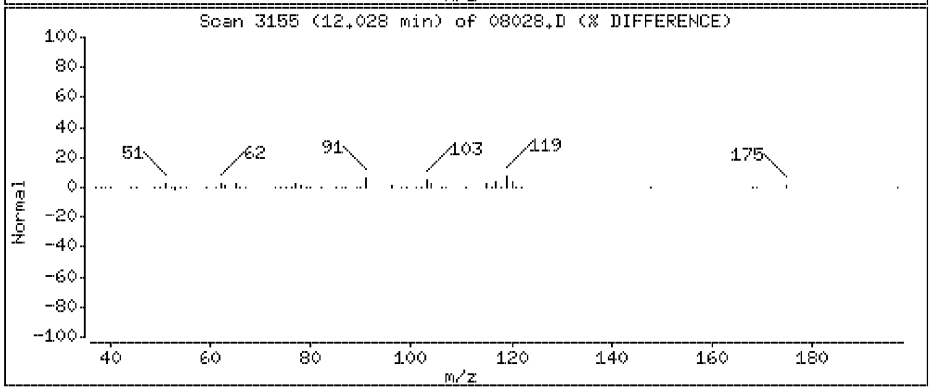












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

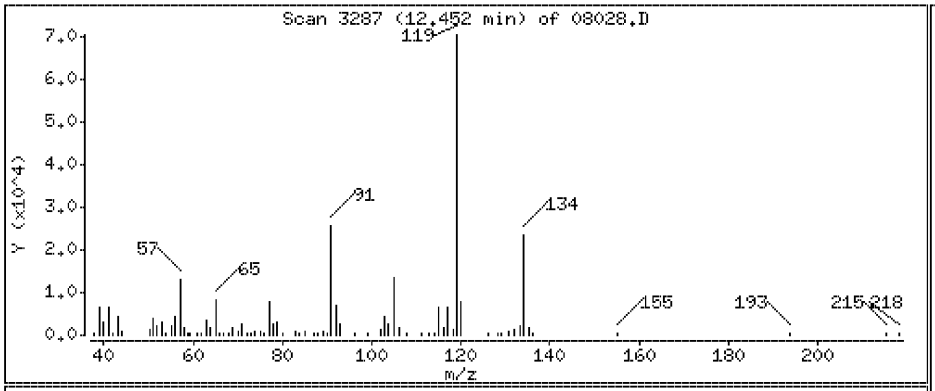
Operator: NCK

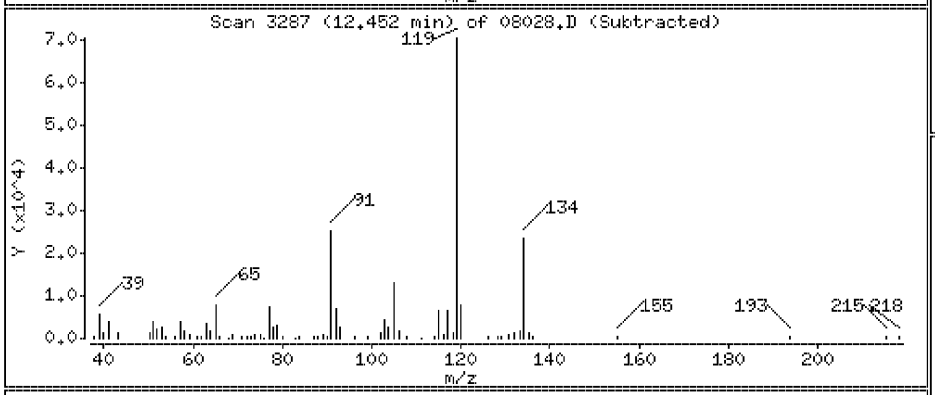
Column phase: J&W DB-5

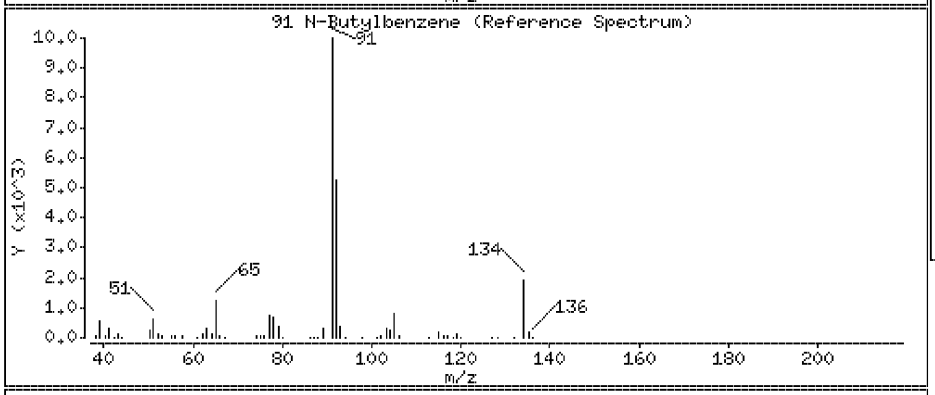
Column diameter: 0.32

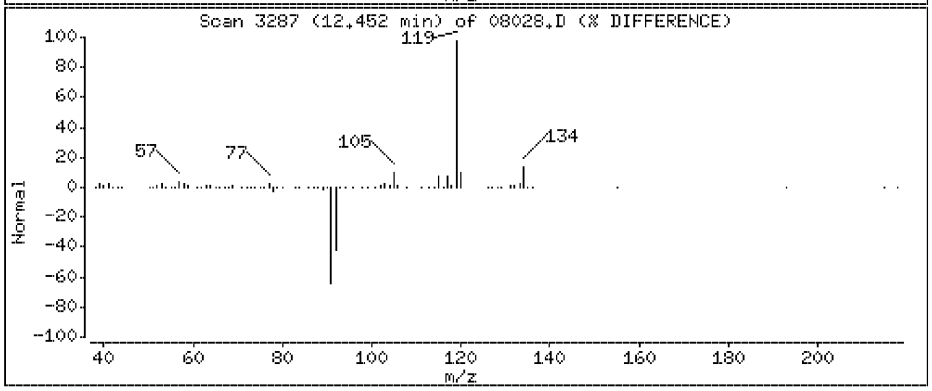
91 N-Butylbenzene

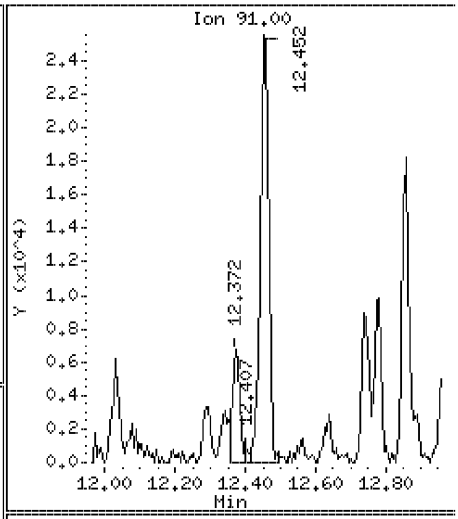
Concentration: 0.664 ppbv

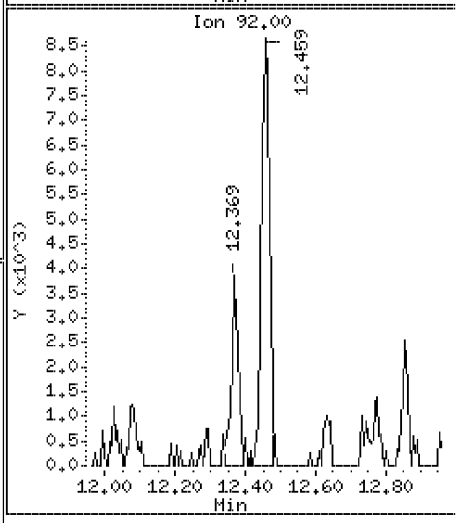












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08028.D

Date : 21-MAR-2017 22:35

Client ID:

Instrument: 10airB.i

Sample Info:

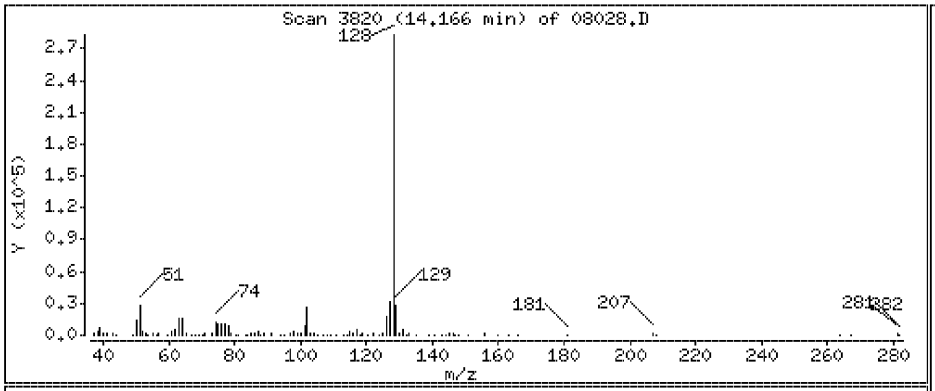
Operator: NCK

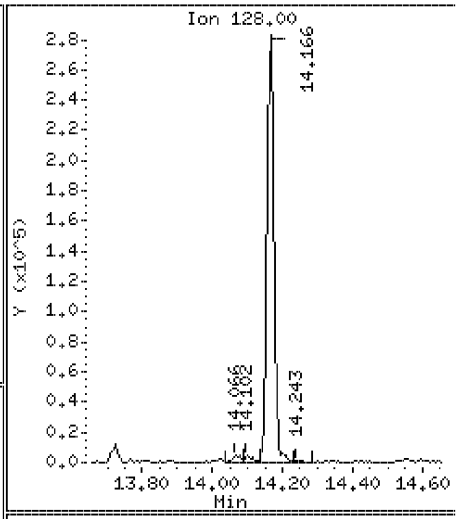
Column phase: J&W DB-5

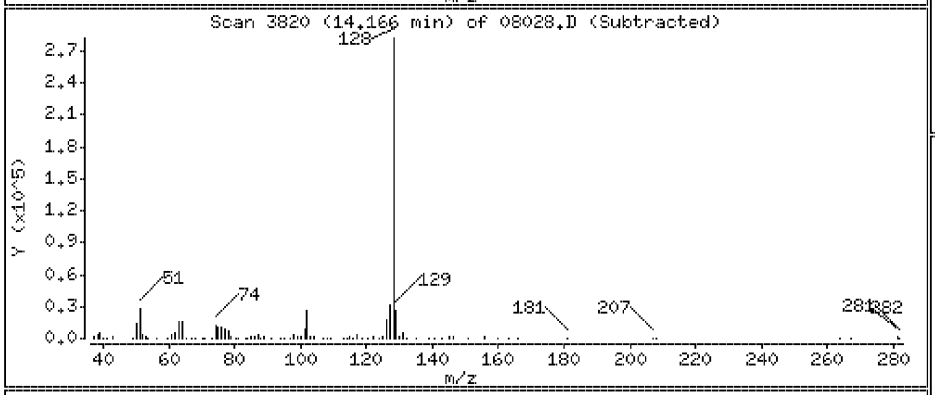
Column diameter: 0.32

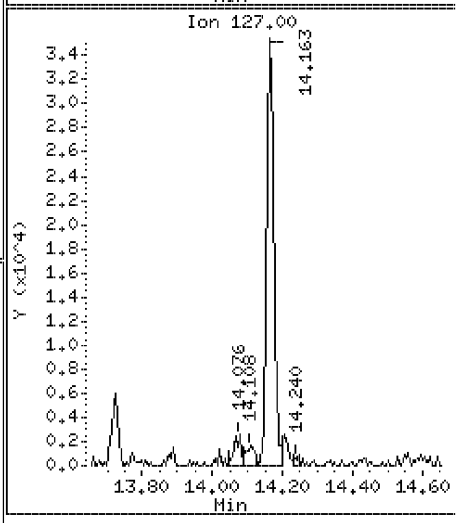
94 Naphthalene

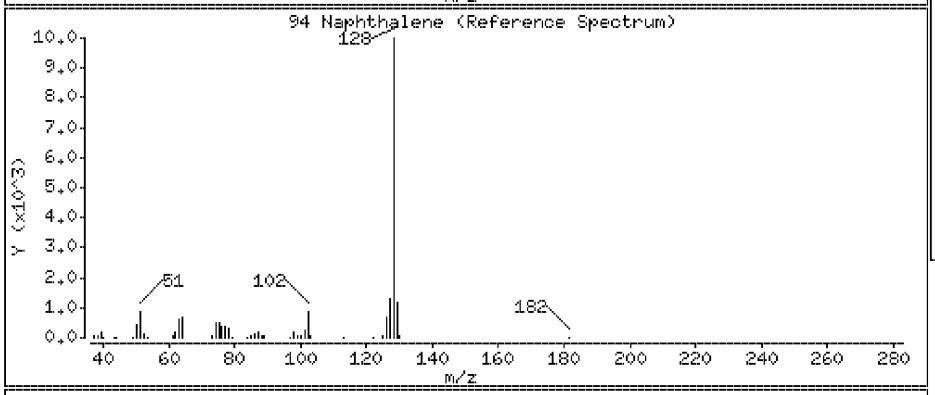
Concentration: 6.11 ppbv

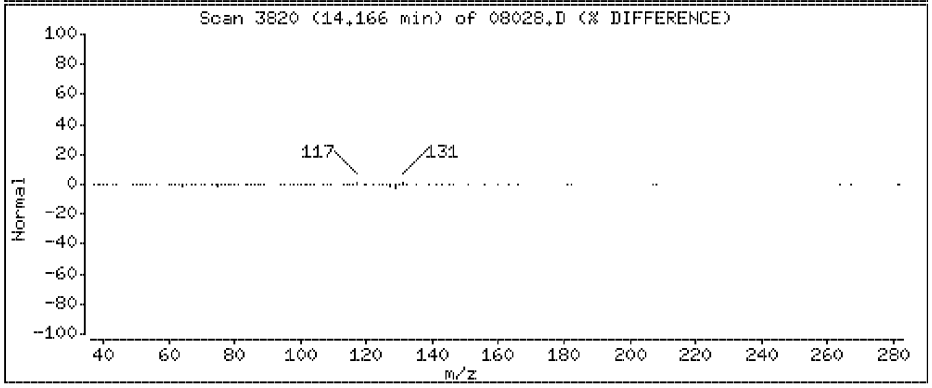






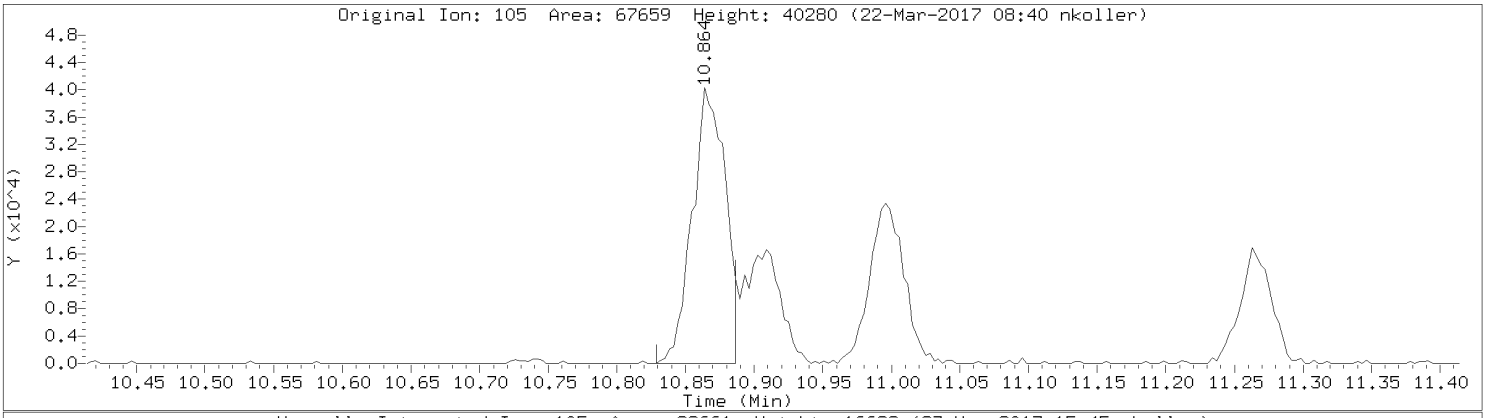


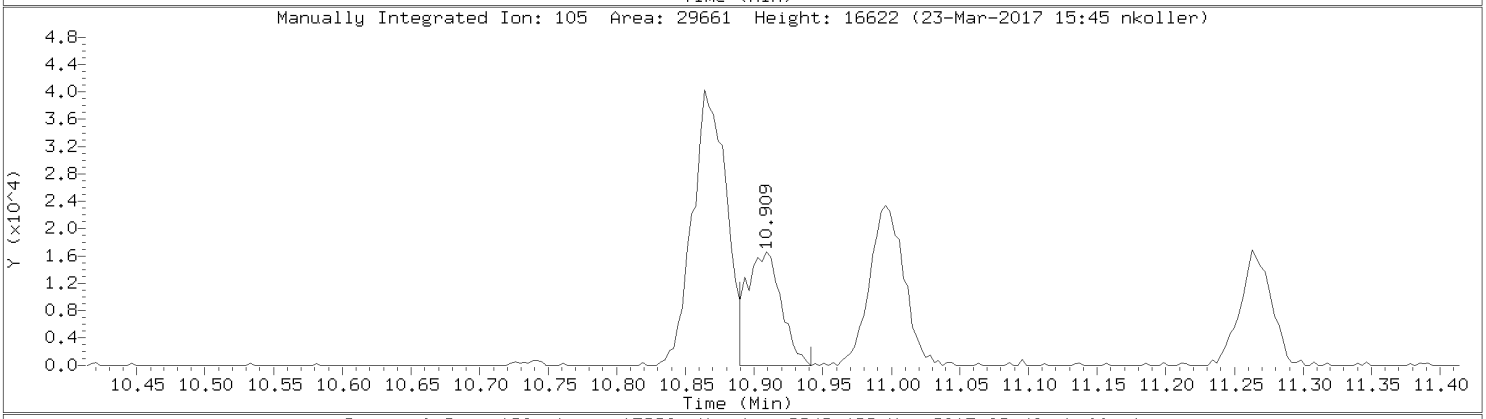


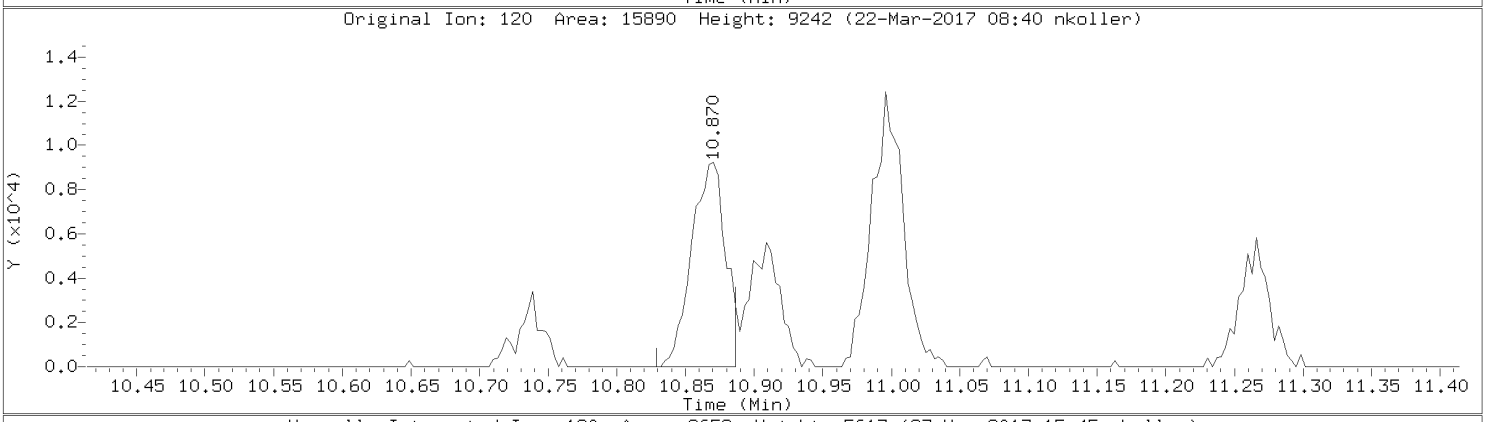


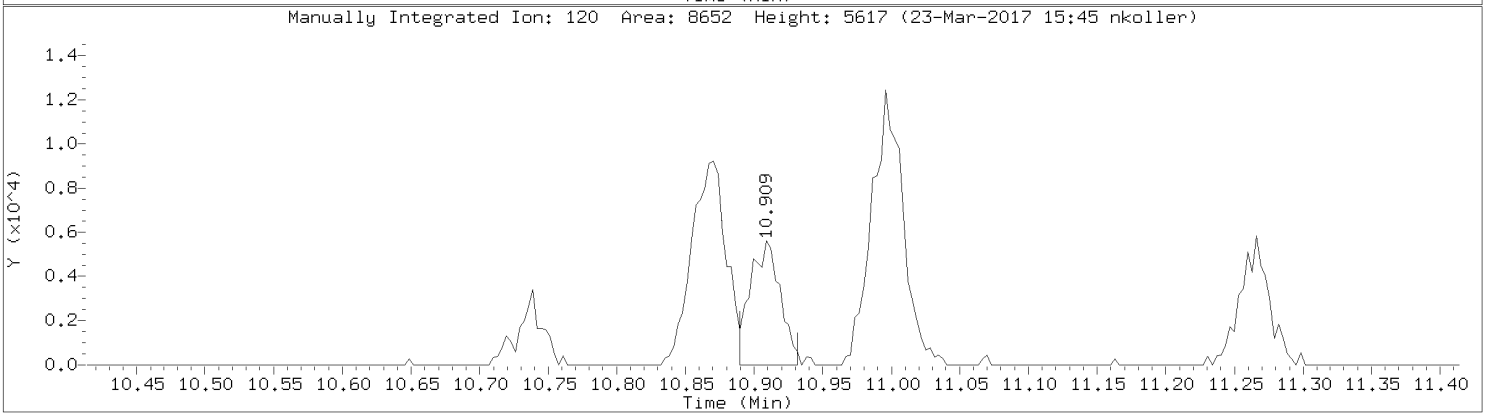
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08028.D
Injection Date: 21-MAR-2017 22:35
Instrument: 10airB.i
Lab Sample ID: 10381035016

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

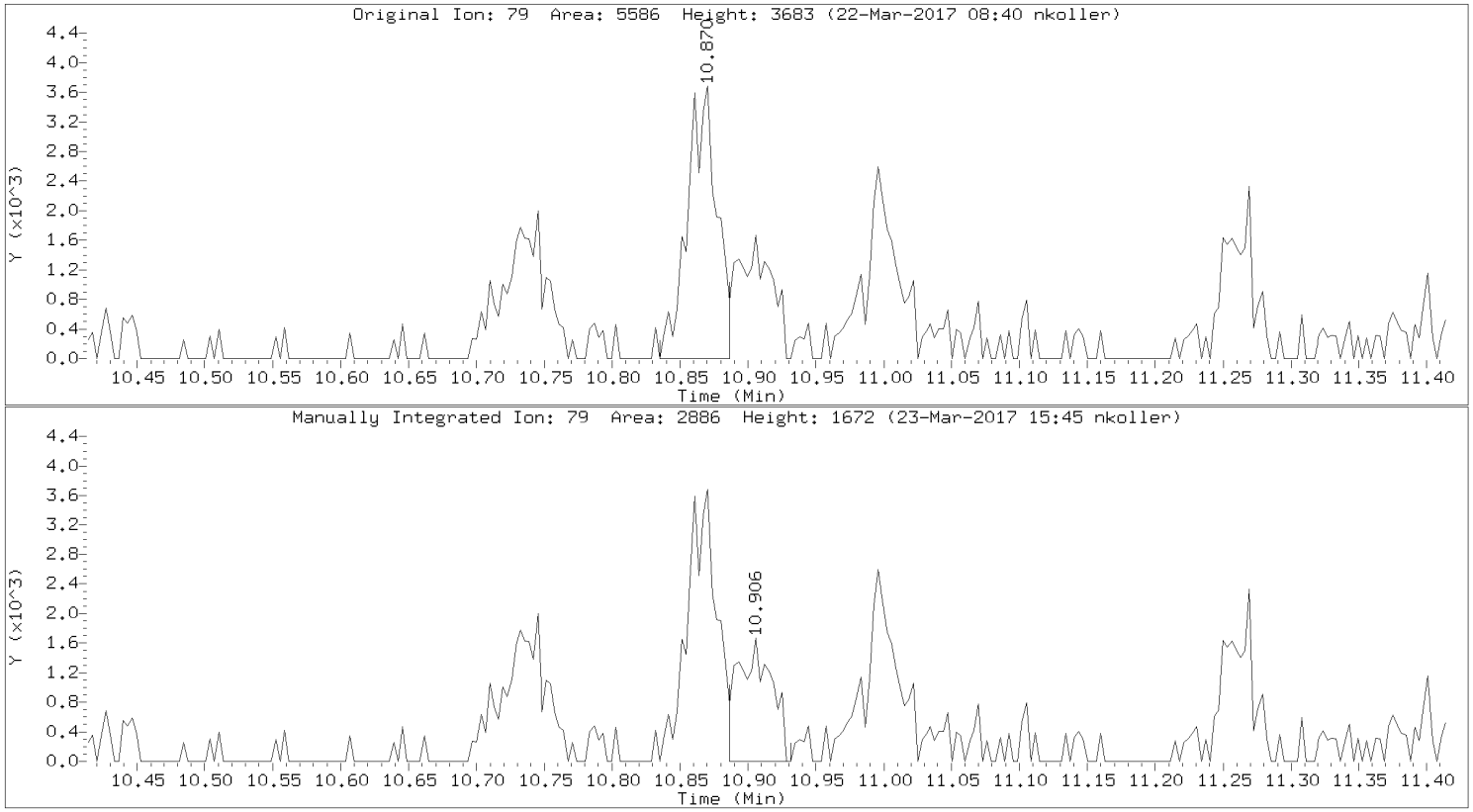








Data File: \\192.168.10.12\chem\10airB.i\032117.b/08028.D
Injection Date: 21-MAR-2017 22:35
Instrument: 10airB.i
Lab Sample ID: 10381035016



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08136.D
Report Date: 23-Mar-2017 10:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032217.b\08136.D
Lab Smp Id: 10381035016
Inj Date : 23-MAR-2017 03:46
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Meth Date : 22-Mar-2017 11:20 10airB.i Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 36
Dil Factor: 2.34500
Integrator: HP RTE Compound Sublist: MeCl.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.345	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	25 Methylene chloride	49	3.983	4.012	(0.711)	1186507	14.7143	34.5
	34 n-Hexane	57	4.578	4.587	(0.817)	219072	2.10538	4.94(Q)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	6068289	10.0000	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	3894821	10.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08136.D
Report Date: 23-Mar-2017 10:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08136.D
Lab Smp Id: 10381035016
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 22-MAR-2017
Calibration Time: 09:05
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

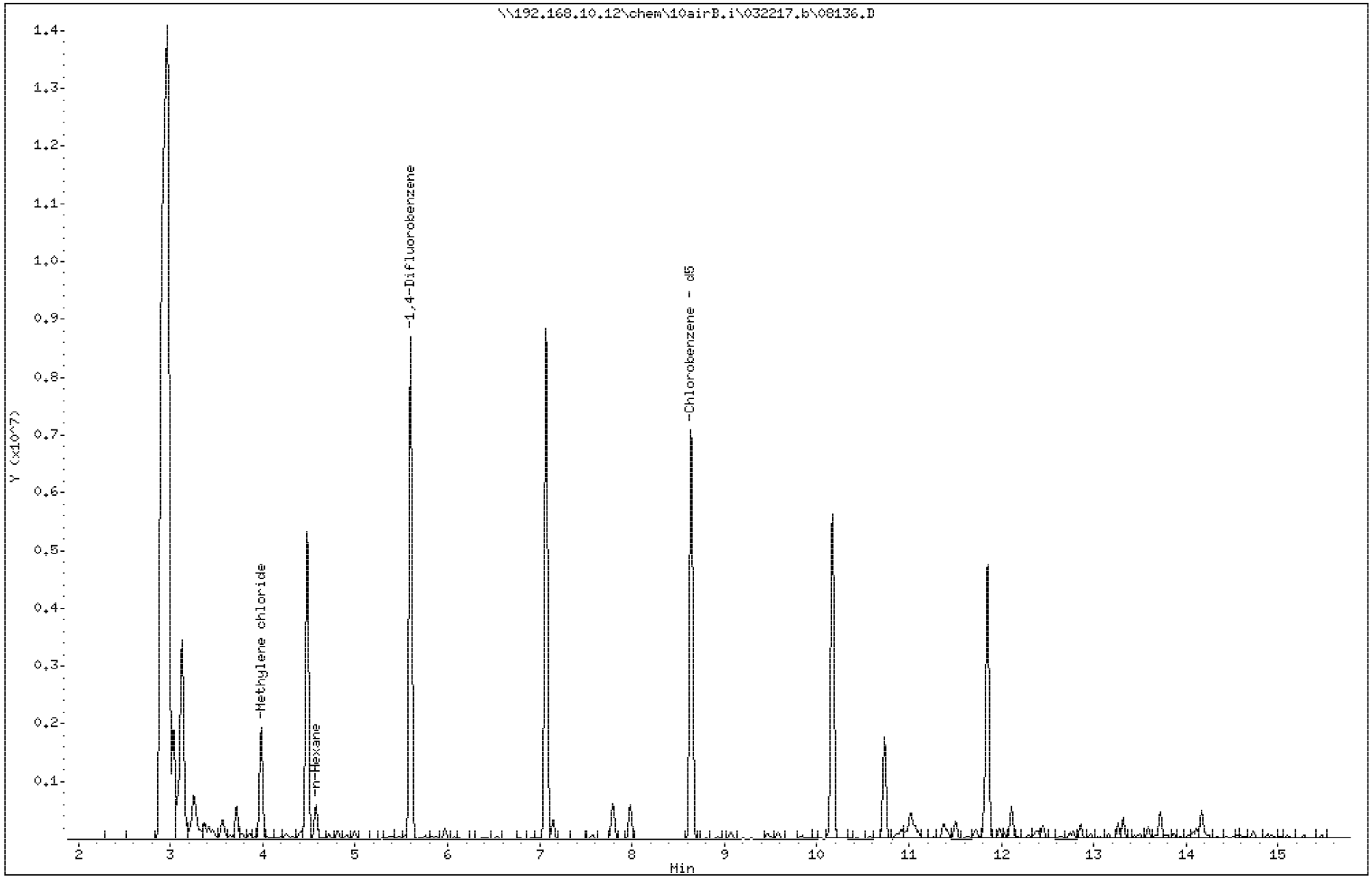
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6068289	-20.58
67 Chlorobenzene - d	5205948	3123569	7288327	3894821	-25.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08136.D
Date : 23-MAR-2017 03:46
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08136.D

Date : 23-MAR-2017 03:46

Client ID:

Instrument: 10airB.i

Sample Info:

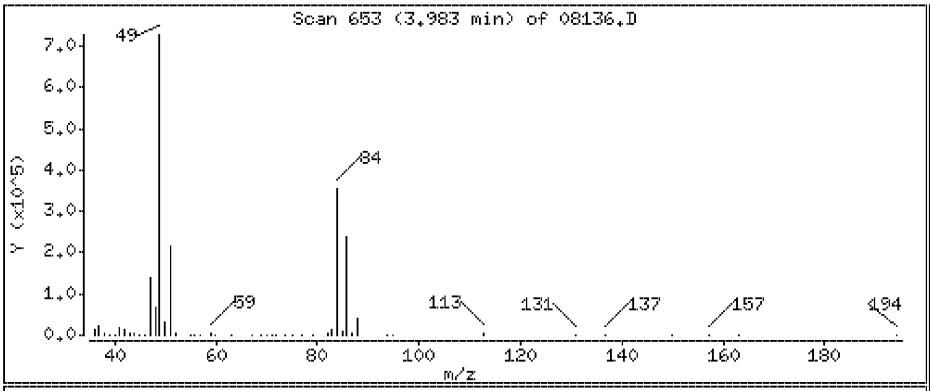
Operator: NCK

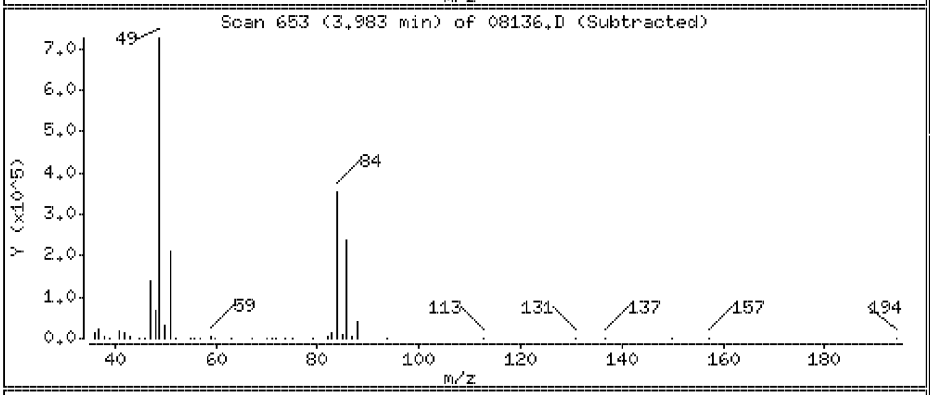
Column phase: J&W DB-5

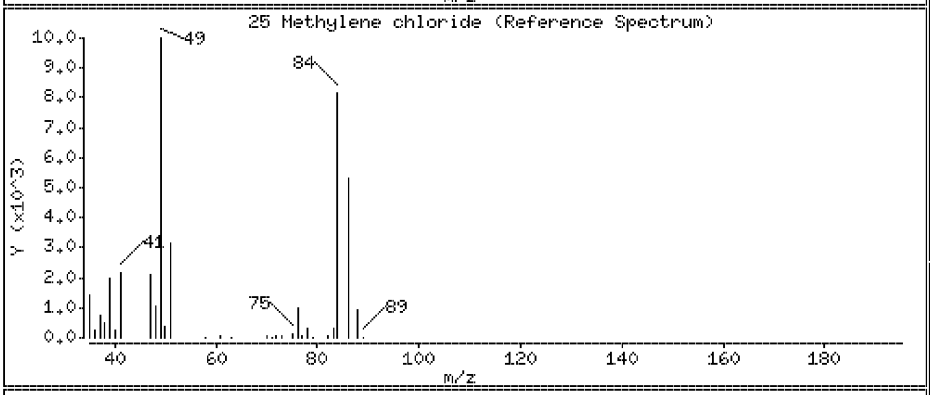
Column diameter: 0.32

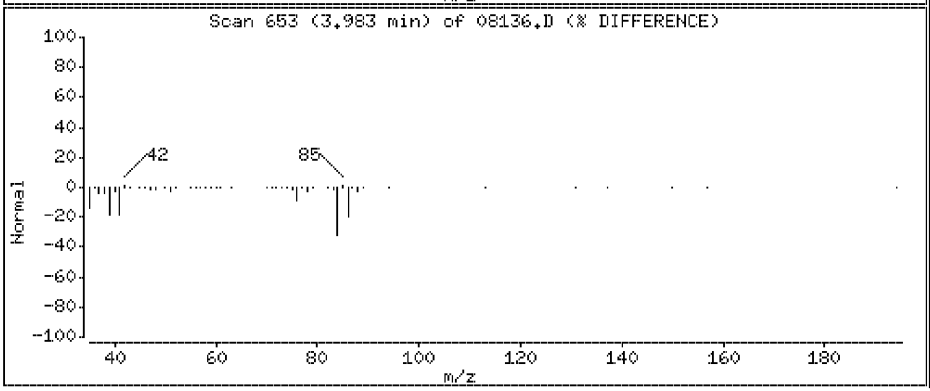
25 Methylene chloride

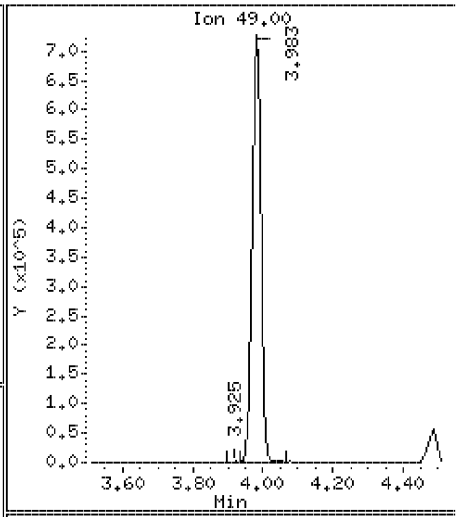
Concentration: 34.5 ppbv

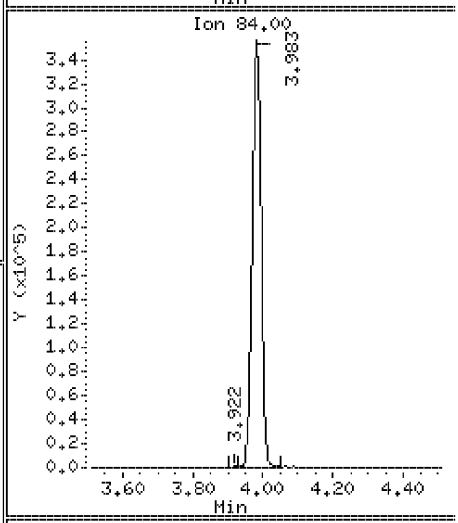


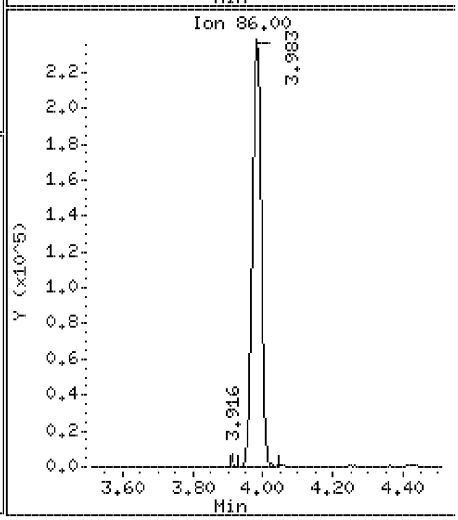












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08136.D

Date : 23-MAR-2017 03:46

Client ID:

Instrument: 10airB.i

Sample Info:

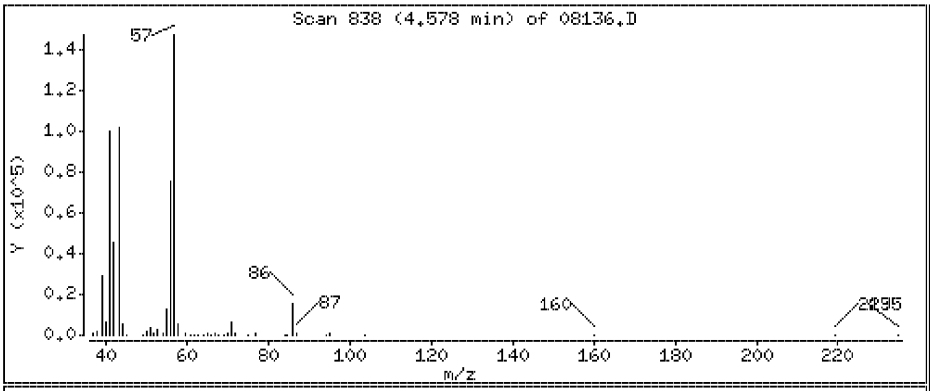
Operator: NCK

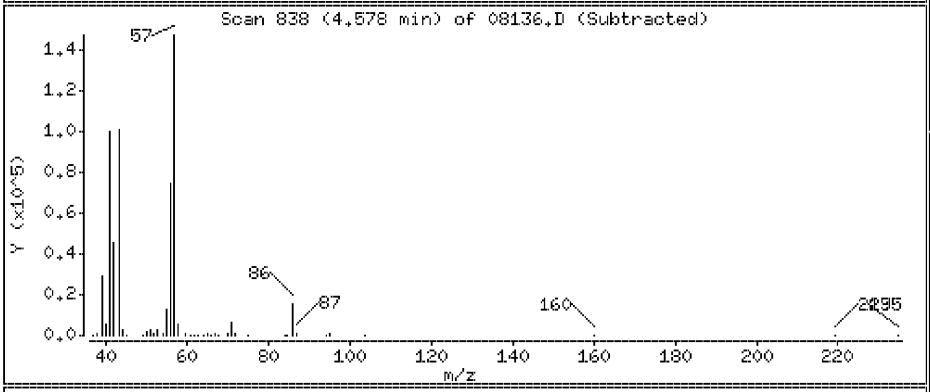
Column phase: J&W DB-5

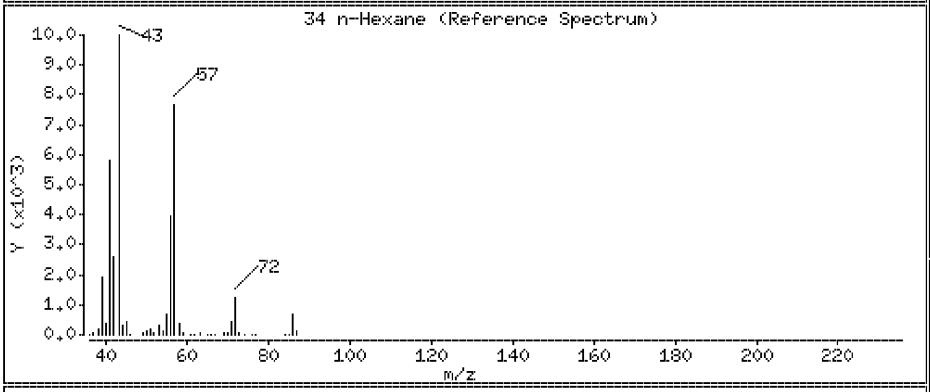
Column diameter: 0.32

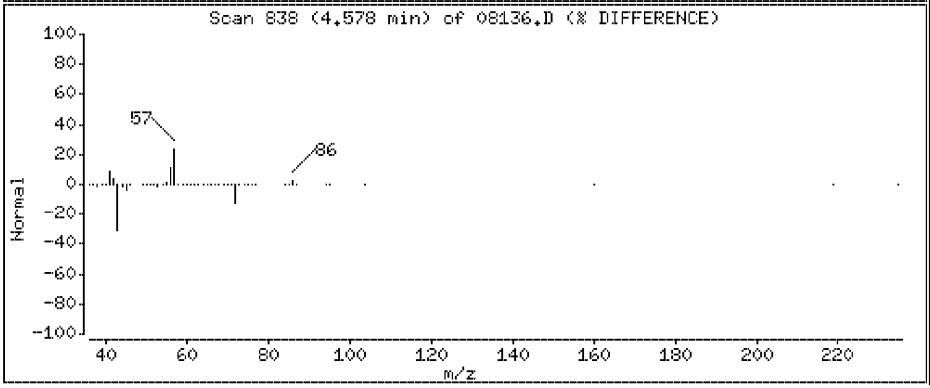
34 n-Hexane

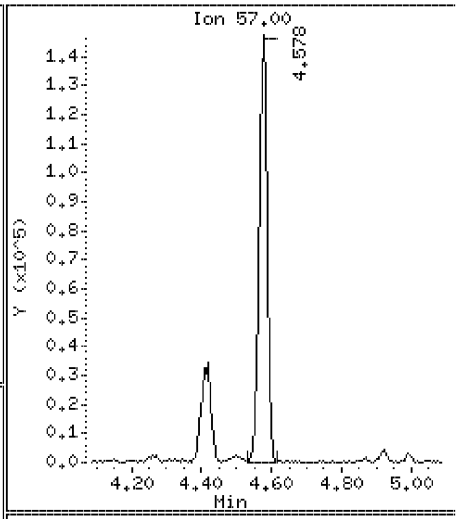
Concentration: 4.94 ppbv

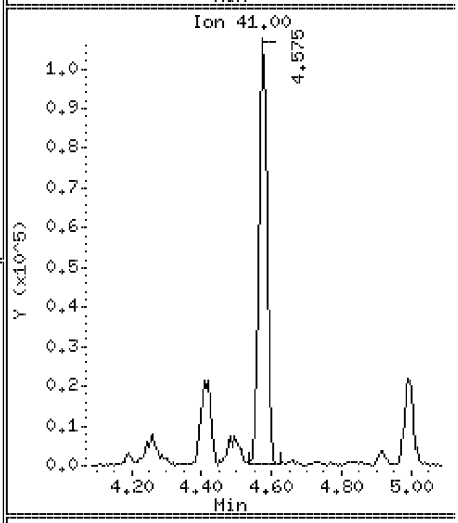


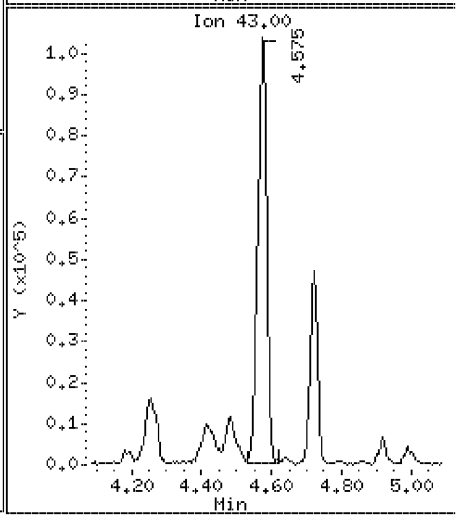












Data File: \\192.168.10.12\chem\10airB.i\032217.b/08136.D
Injection Date: 23-MAR-2017 03:46
Instrument: 10airB.i
Lab Sample ID: 10381035016
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_56_20170302 **Lab ID: 10381035017** Collected: 03/02/17 13:06 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.8**	ug/m3	4.1	1.4	1.68		03/21/17 23:06	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 23:06	107-05-1	
Benzene	**0.56**	ug/m3	0.55	0.20	1.68		03/21/17 23:06	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 23:06	75-27-4	
Bromoform	**4.1J**	ug/m3	8.8	1.5	1.68		03/21/17 23:06	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 23:06	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 23:06	106-99-0	
2-Butanone (MEK)	**<0.38**	ug/m3	5.0	0.38	1.68		03/21/17 23:06	78-93-3	
Carbon disulfide	**0.64J**	ug/m3	1.1	0.17	1.68		03/21/17 23:06	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 23:06	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 23:06	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/21/17 23:06	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 23:06	75-00-3	
Chloroform	**2.5**	ug/m3	0.83	0.32	1.68		03/21/17 23:06	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 23:06	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 23:06	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/21/17 23:06	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 23:06	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 23:06	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 23:06	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 23:06	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 23:06	541-73-1	
1,4-Dichlorobenzene	**1.6J**	ug/m3	2.0	0.84	1.68		03/21/17 23:06	106-46-7	
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/21/17 23:06	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 23:06	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 23:06	107-06-2	
1,1-Dichloroethene	**0.71J**	ug/m3	1.4	0.40	1.68		03/21/17 23:06	75-35-4	
cis-1,2-Dichloroethene	**65.1**	ug/m3	1.4	0.41	1.68		03/21/17 23:06	156-59-2	
trans-1,2-Dichloroethene	**3.1**	ug/m3	1.4	0.65	1.68		03/21/17 23:06	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 23:06	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 23:06	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 23:06	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 23:06	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 23:06	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 23:06	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 23:06	100-41-4	
4-Ethyltoluene	**1.6J**	ug/m3	1.7	0.32	1.68		03/21/17 23:06	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 23:06	87-68-3	
n-Hexane	**4.3**	ug/m3	1.2	0.60	1.68		03/21/17 23:06	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 23:06	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 23:06	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 23:06	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 23:06	108-87-2	
Methylene Chloride	**33.8**	ug/m3	5.9	0.91	1.68		03/21/17 23:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 23:06	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 23:06	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D
Report Date: 23-Mar-2017 15:46

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08029.D
Lab Smp Id: 10381035017
Inj Date : 21-MAR-2017 23:06
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 29
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.552	3.545	(0.633)	43242	1.84423	3.10	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.642	3.677	(0.649)	143650	1.13347	1.90	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.719	3.722	(0.663)	395112	3.90303	6.56	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.877	3.912	(0.691)	9621	0.10498	0.176	(H)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.935	3.951	(0.701)	477442	4.94440	8.31	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D
Report Date: 23-Mar-2017 15:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.973	4.005	(0.708)	474560	5.70217	9.58	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	4.086	4.127	(0.728)	12422	0.12051	0.202	
	28 trans-1,2-dichloroethene	96	4.243	4.275	(0.756)	20130	0.45235	0.760	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.799)	2078929	9.68457	9.68	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.574	4.587	(0.815)	76960	0.71662	1.20(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 Ethyl Acetate	43	4.729	4.716	(0.843)	23259	0.15394	0.259(Q)	
	37 cis-1,2-Dichloroethene	96	4.697	4.725	(0.837)	525285	9.61153	16.1(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.858)	34107	0.29877	0.502	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.217	5.233	(0.930)	15320	0.11424	0.192	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	5.455	5.465	(0.972)	18579	0.10298	0.173	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.610	5.613	(1.000)	6263050	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.986	5.986	(1.067)	11047669	130.986	220(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	5504891	9.54486	9.54	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.150	7.153	(1.275)	177442	0.84699	1.42	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.574	7.581	(0.876)	17375	0.11829	0.199(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						(D)
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	3957862	43.6582	73.3(A)	
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	3996494	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.069	9.082	(1.049)	27555	0.29374	0.493	
	71 n-Nonane	43	9.465	9.468	(1.095)	13350	0.10843	0.182(Q)	
	72 Bromoform	173	9.468	9.478	(1.096)	4086	0.23016	0.387	
	73 Styrene	104	9.510	9.507	(1.100)	1267	0.13865	0.233	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D
Report Date: 23-Mar-2017 15:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.892	10.915	(1.260)	7753	0.18654	0.313(M)	
79	1,3,5-Trimethylbenzene	105	10.995	10.998	(1.272)	1774	0.14817	0.249(Q)	
80	n-Decane	57	11.378	11.381	(2.028)	115897	0.92365	1.55(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	12807	0.18929	0.318	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	1865167	9.67118	9.67	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	11.883	11.889	(1.375)	1352	0.15282	0.257(Q)	
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.024	12.034	(1.391)	2763	0.16100	0.270(Q)	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.156	(1.640)	19204	0.57988	0.974	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D
Report Date: 23-Mar-2017 15:46

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08029.D
Lab Smp Id: 10381035017
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

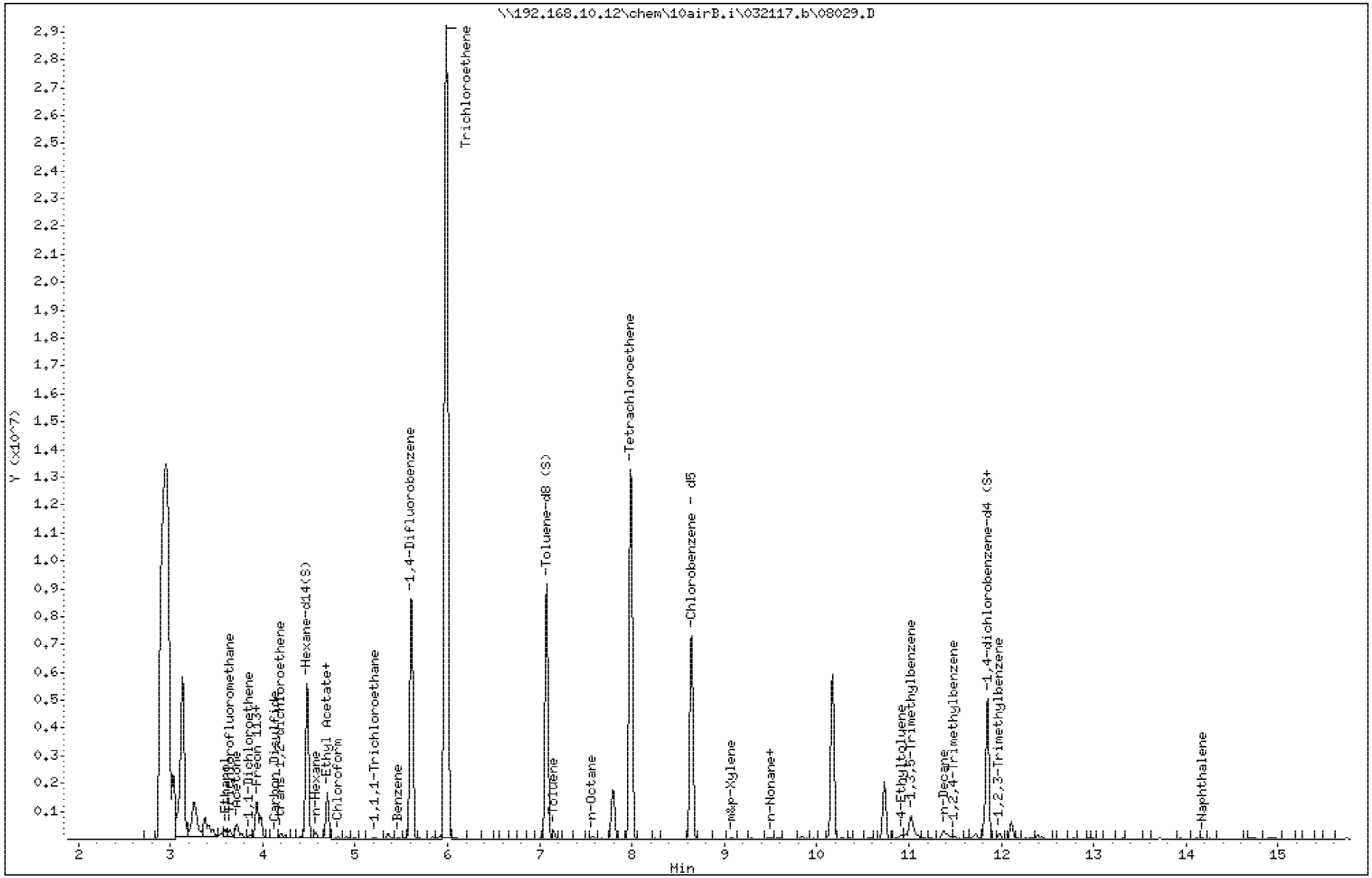
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6263050	-18.03
67 Chlorobenzene - d	5205948	3123569	7288327	3996494	-23.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D
Date : 21-MAR-2017 23:06
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

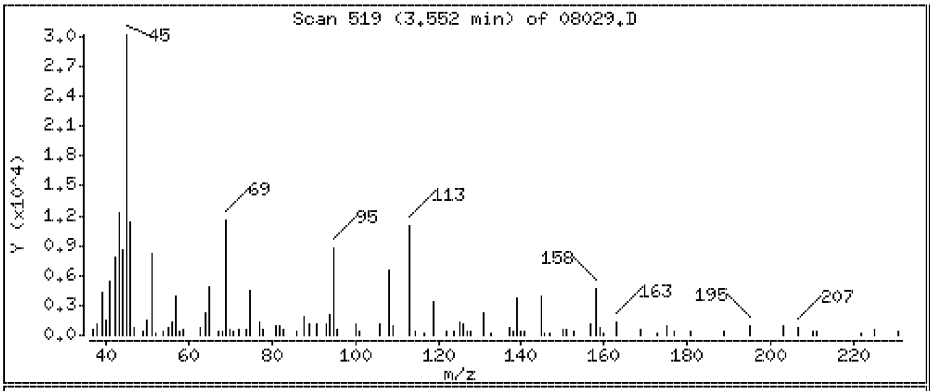
Operator: NCK

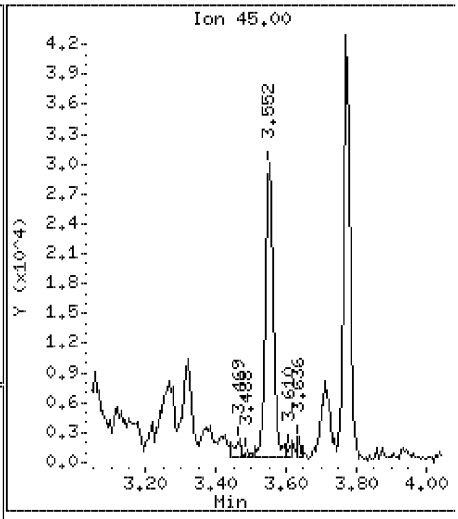
Column phase: J&W DB-5

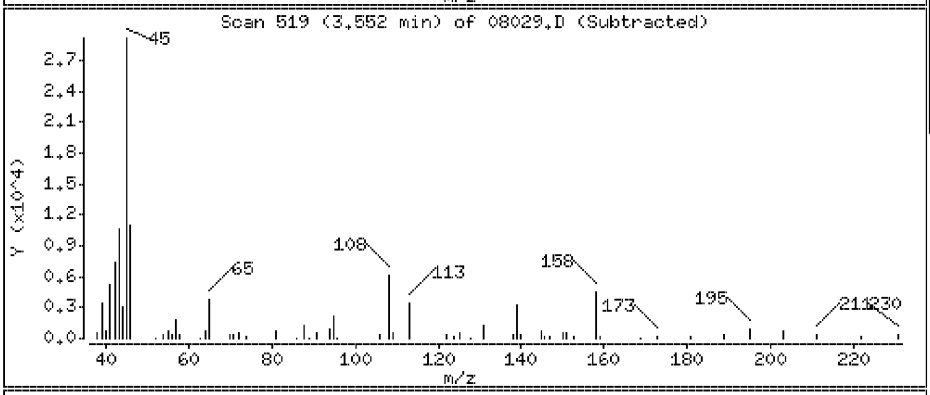
Column diameter: 0.32

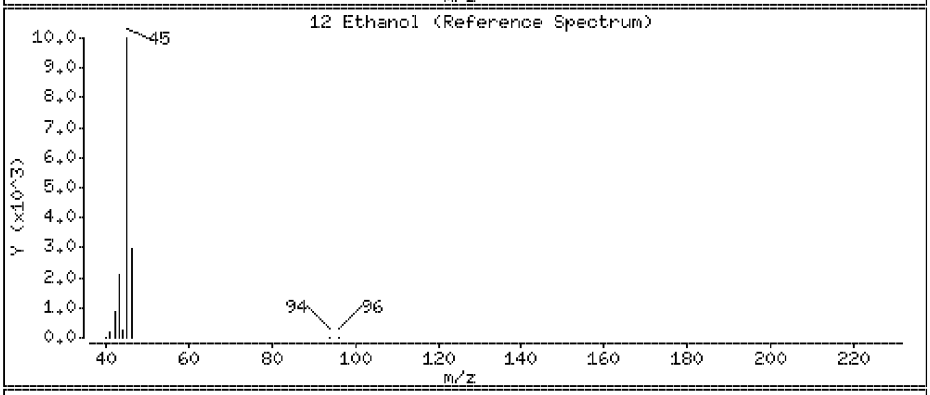
12 Ethanol

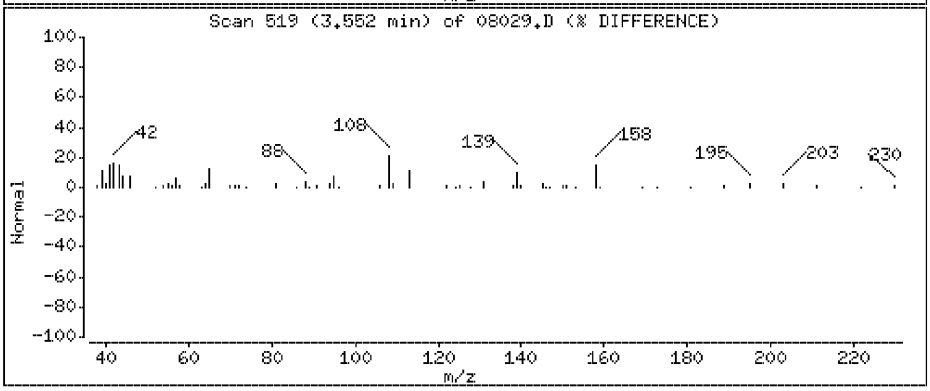
Concentration: 3.10 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

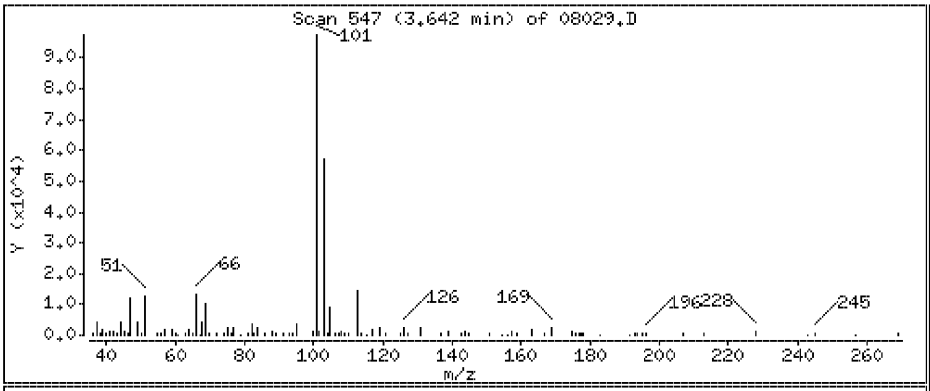
Operator: NCK

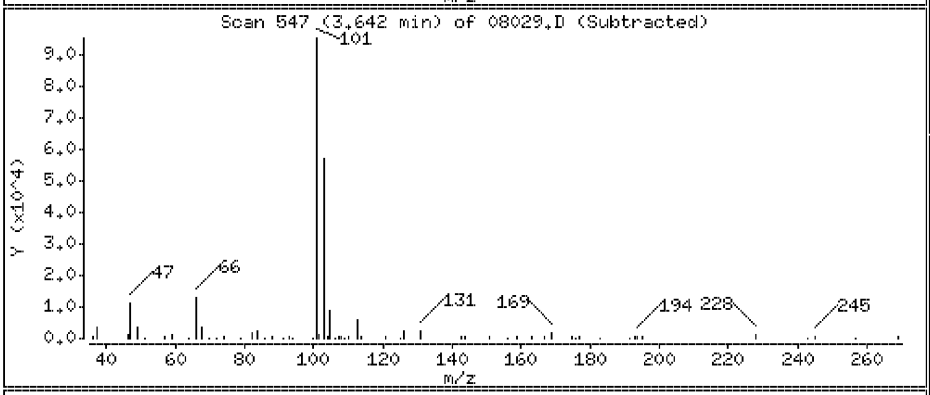
Column phase: J&W DB-5

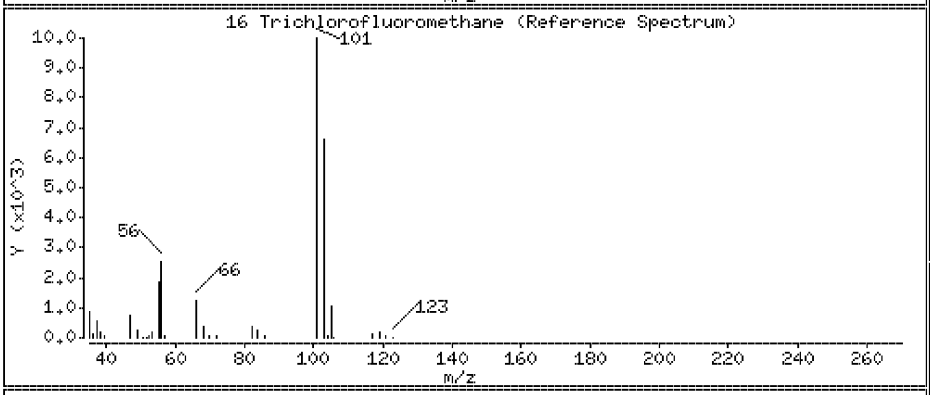
Column diameter: 0.32

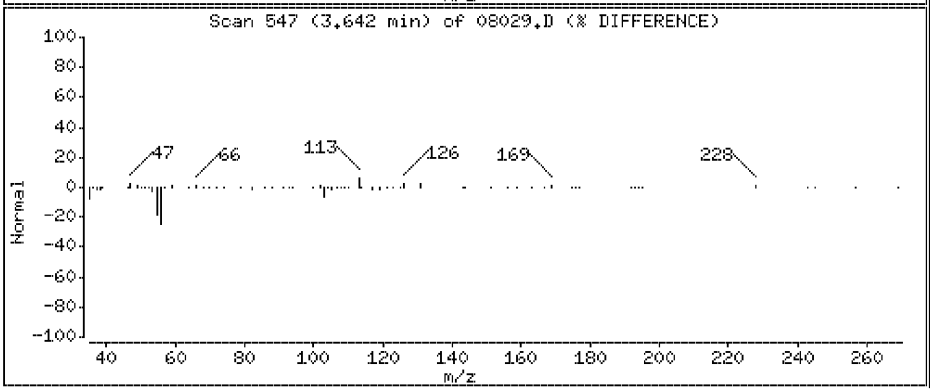
16 Trichlorofluoromethane

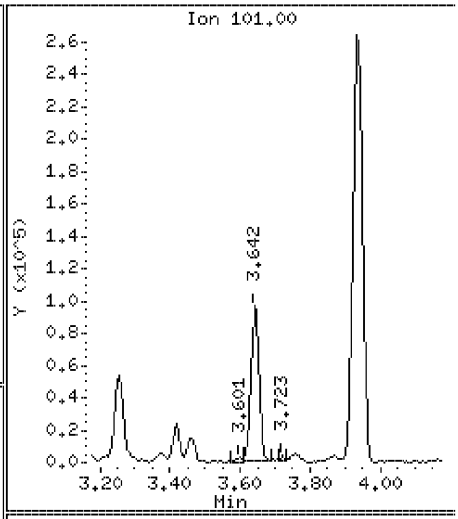
Concentration: 1.90 ppbv

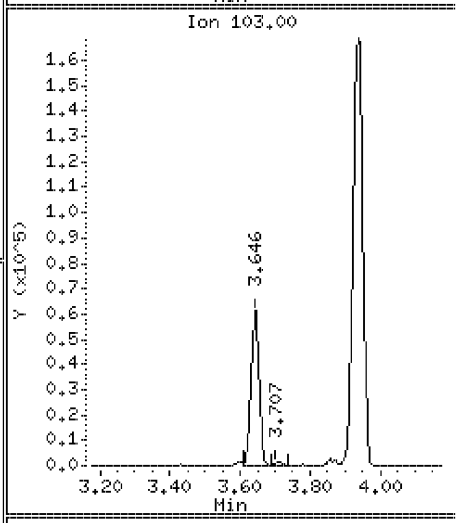


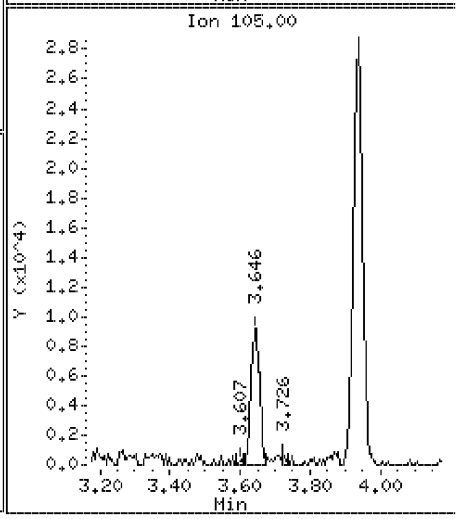












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

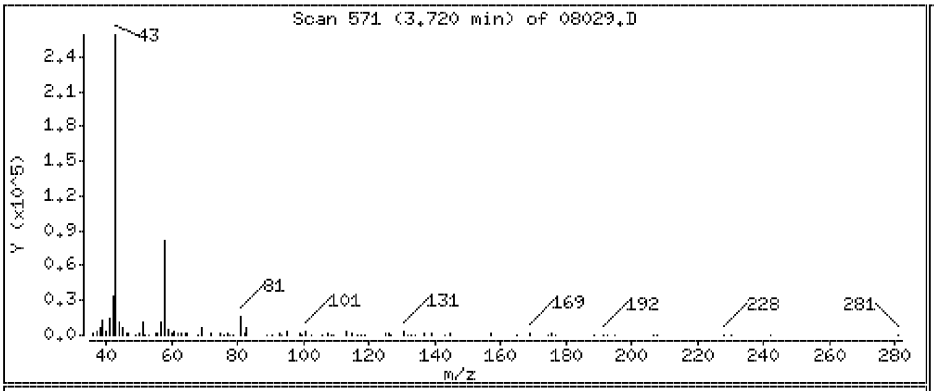
Operator: NCK

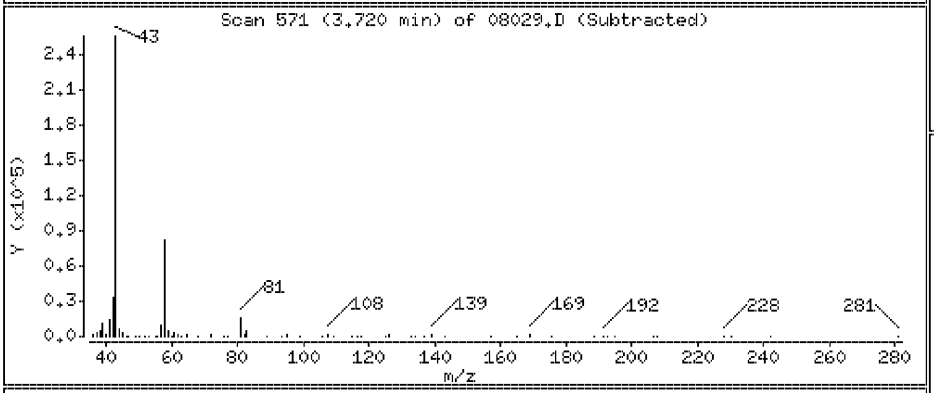
Column phase: J&W DB-5

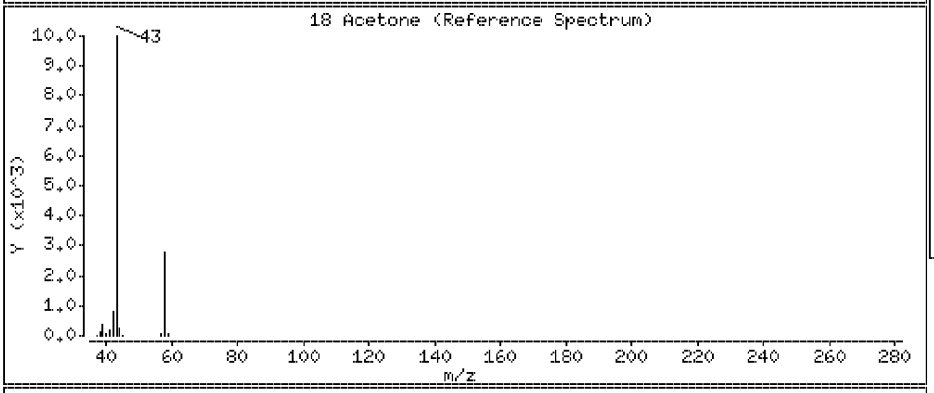
Column diameter: 0.32

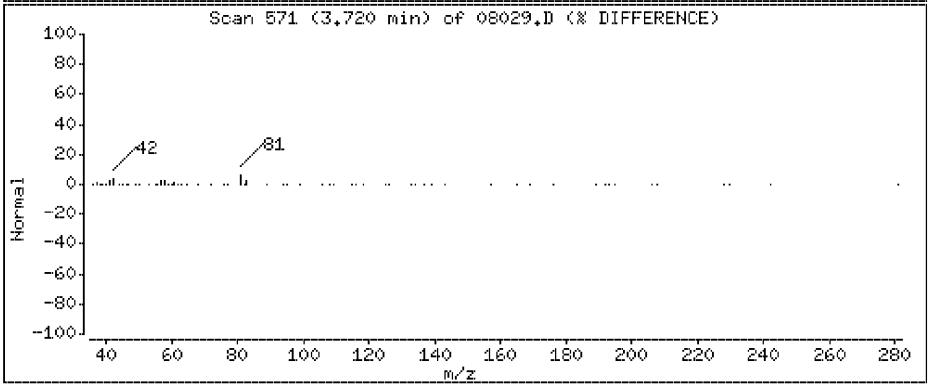
18 Acetone

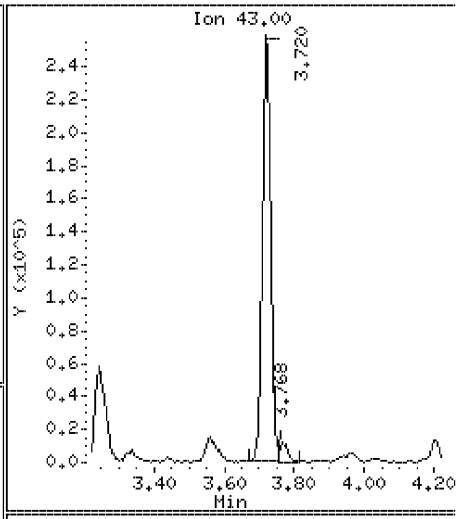
Concentration: 6.56 ppbv

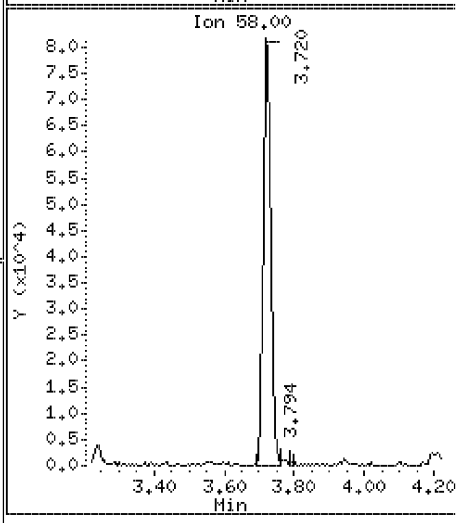












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

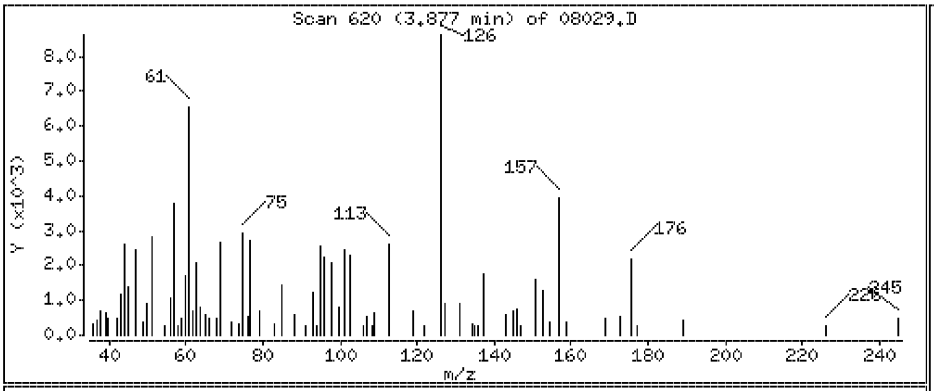
Operator: NCK

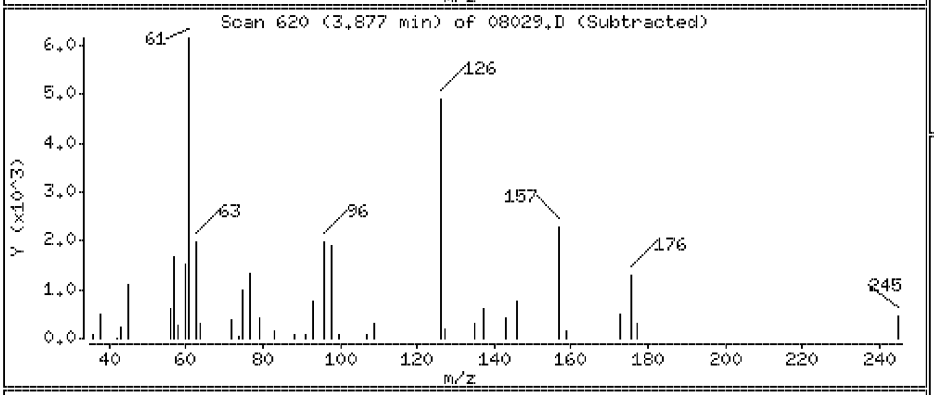
Column phase: J&W DB-5

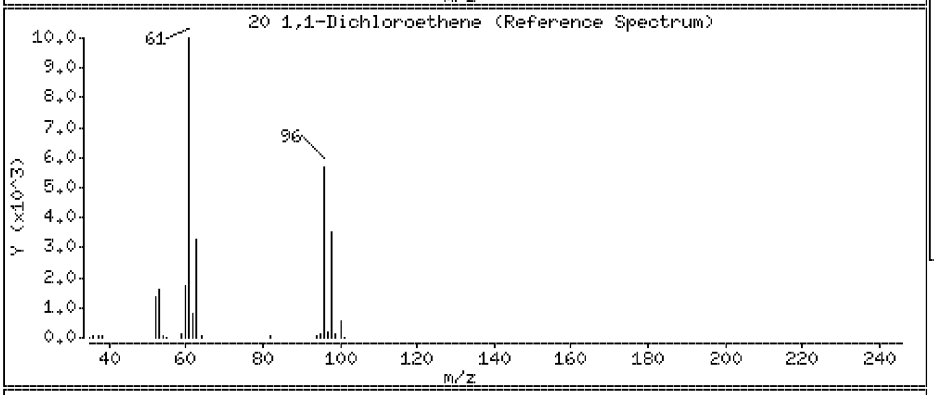
Column diameter: 0.32

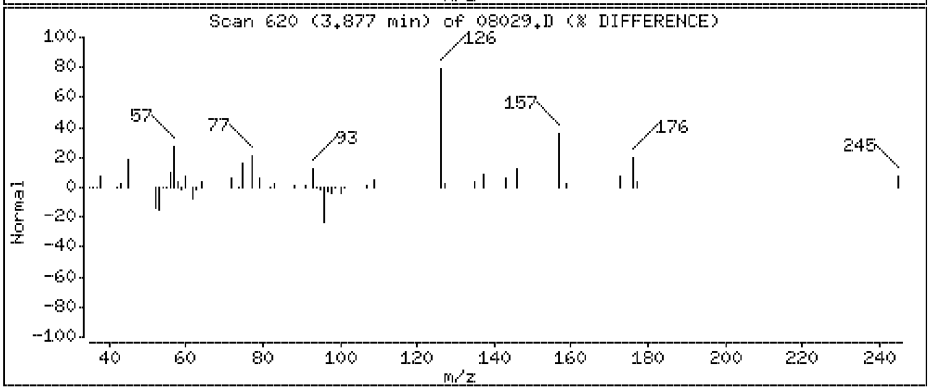
20 1,1-Dichloroethene

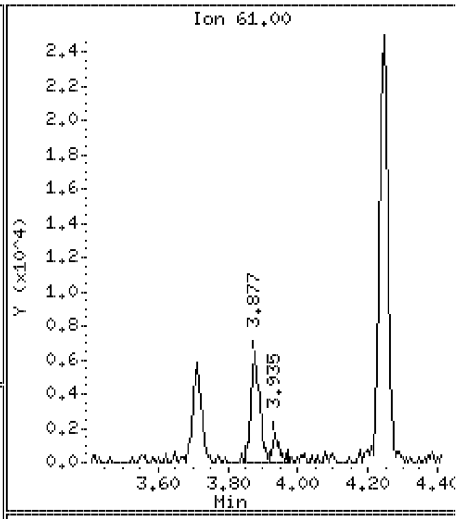
Concentration: 0.176 ppbv

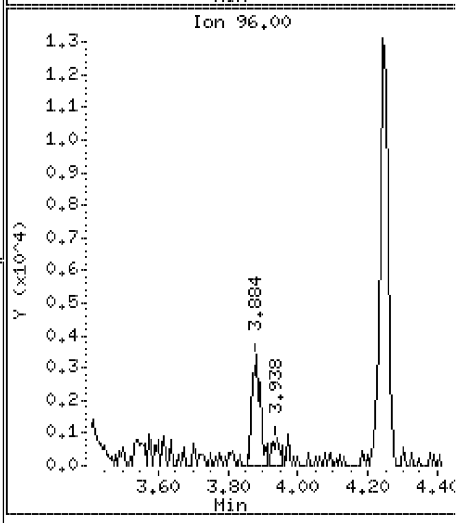












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

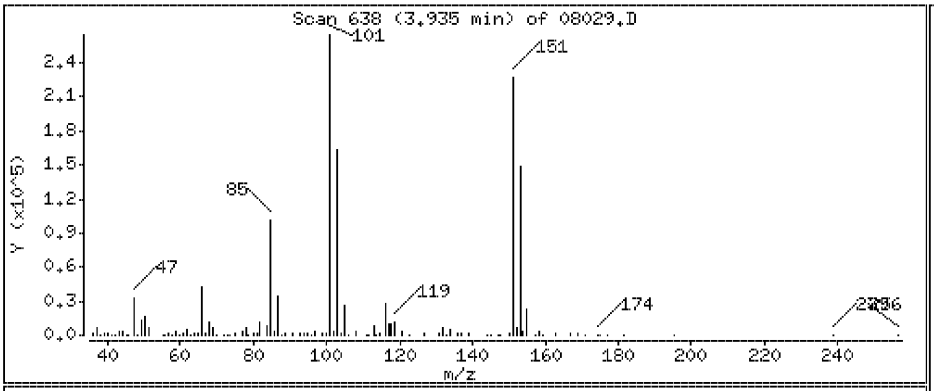
Operator: NCK

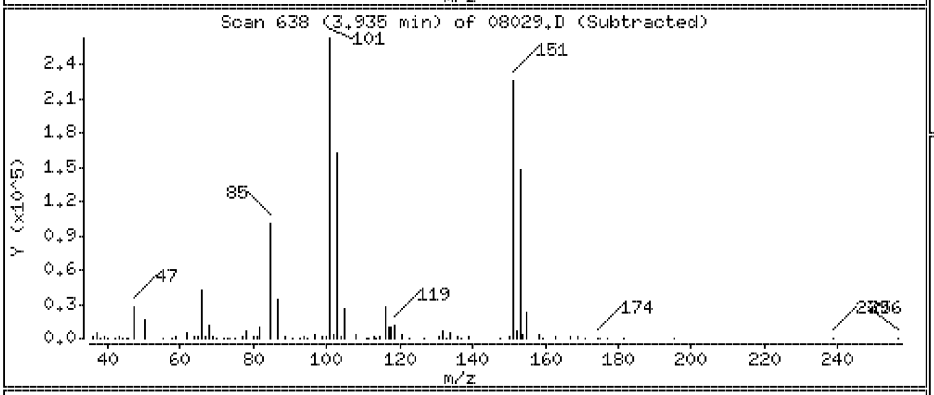
Column phase: J&W DB-5

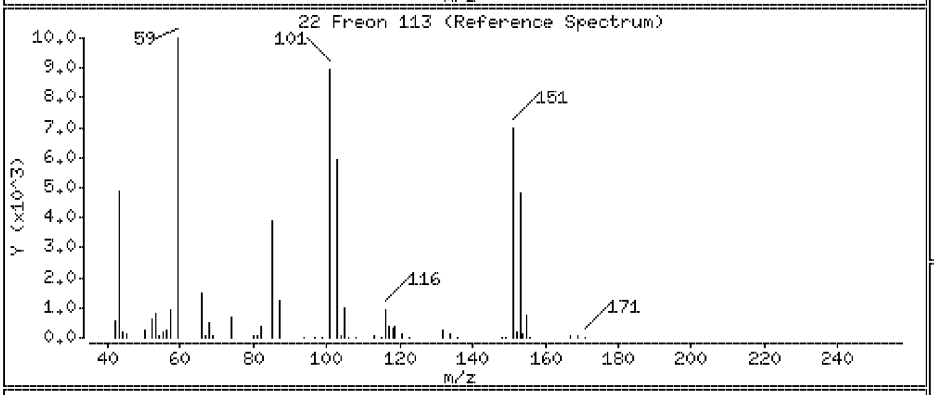
Column diameter: 0.32

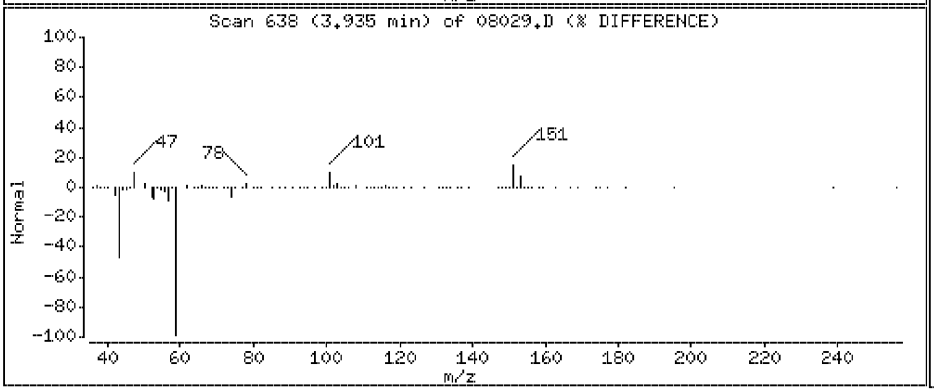
22 Freon 113

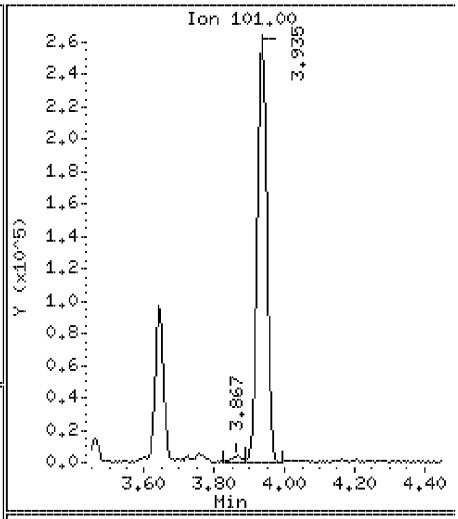
Concentration: 8.31 ppbv

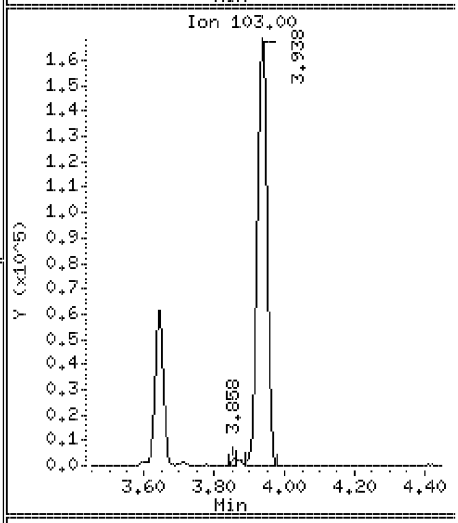


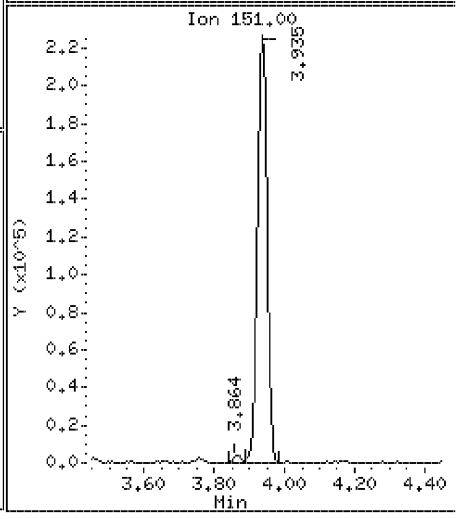












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

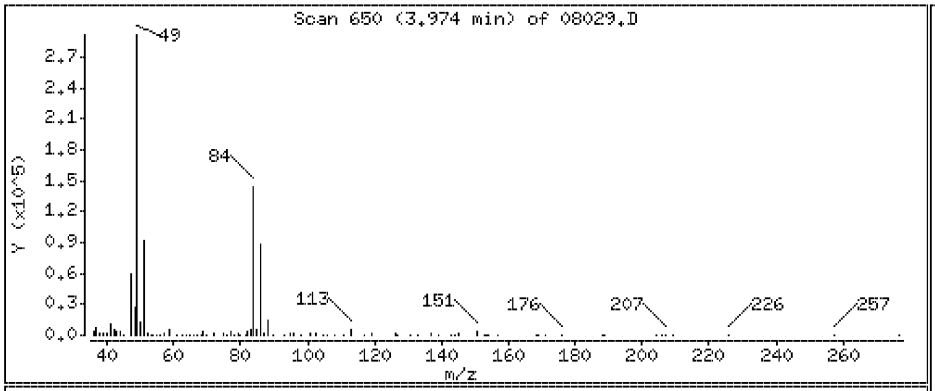
Operator: NCK

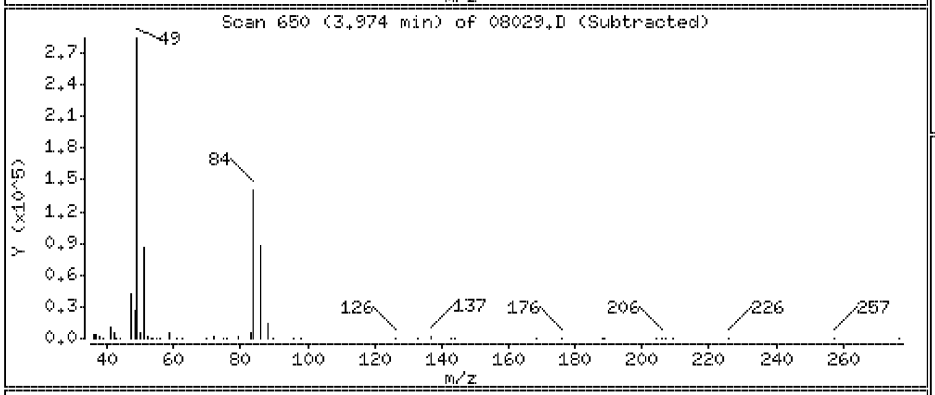
Column phase: J&W DB-5

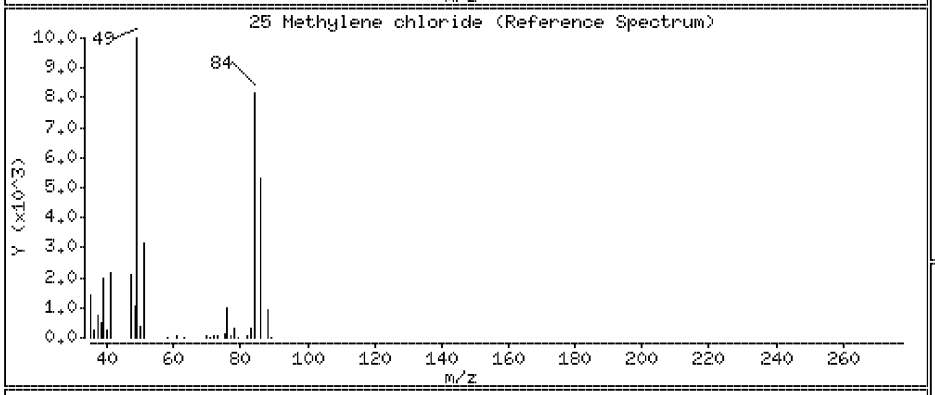
Column diameter: 0.32

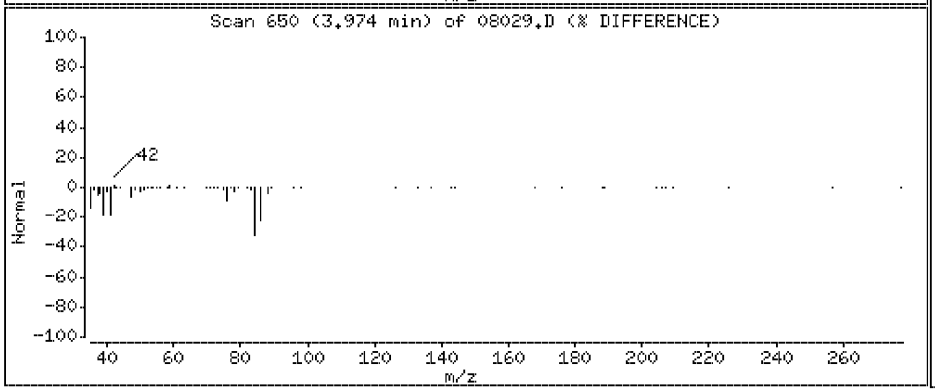
25 Methylene chloride

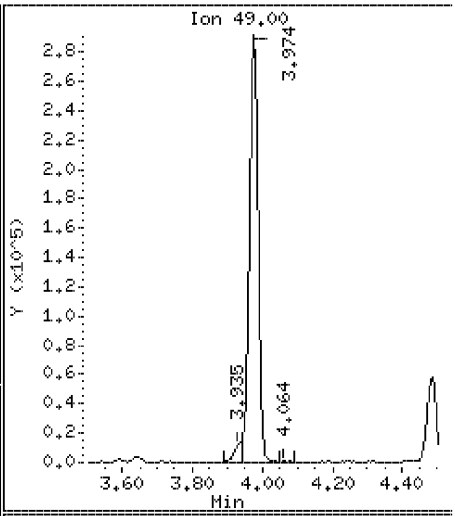
Concentration: 9.58 ppbv

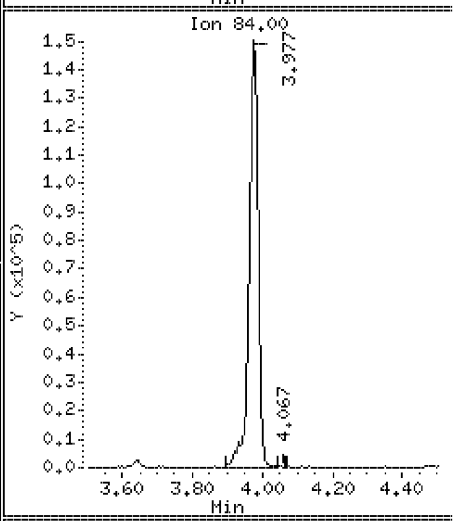


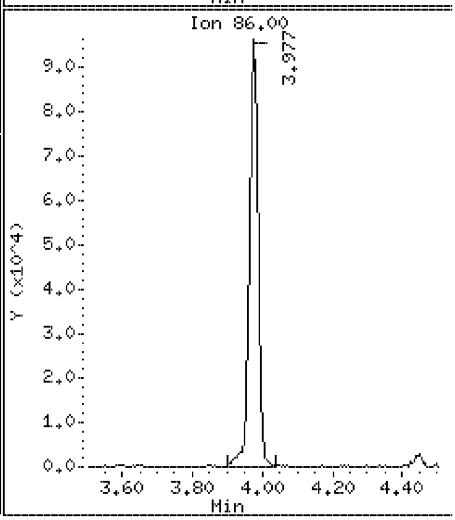












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

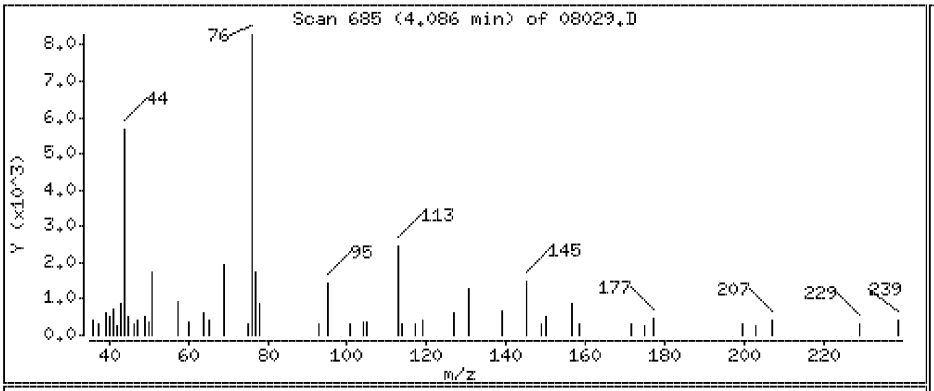
Operator: NCK

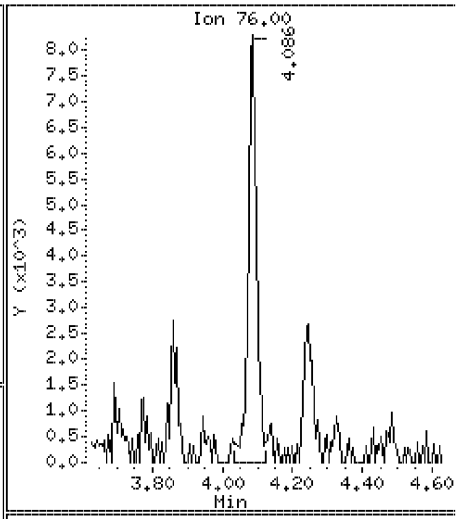
Column phase: J&W DB-5

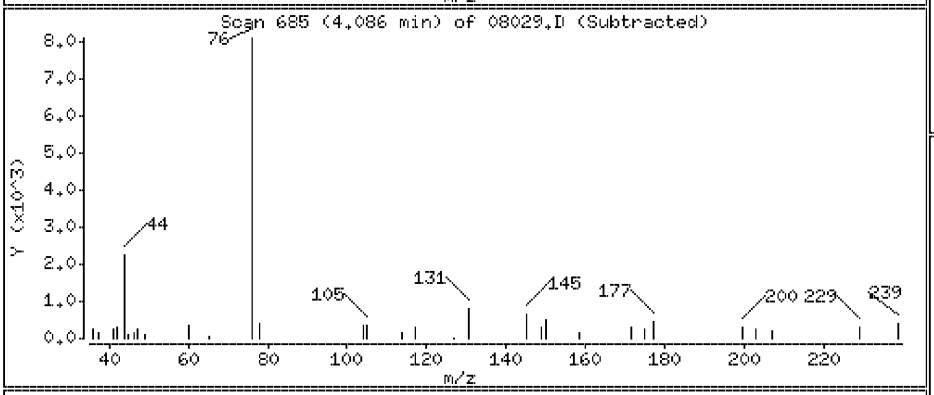
Column diameter: 0.32

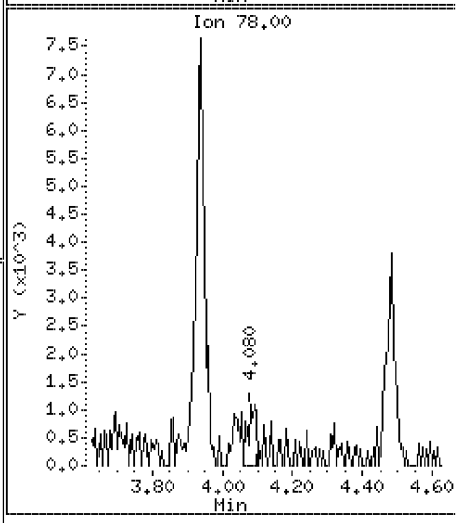
27 Carbon Disulfide

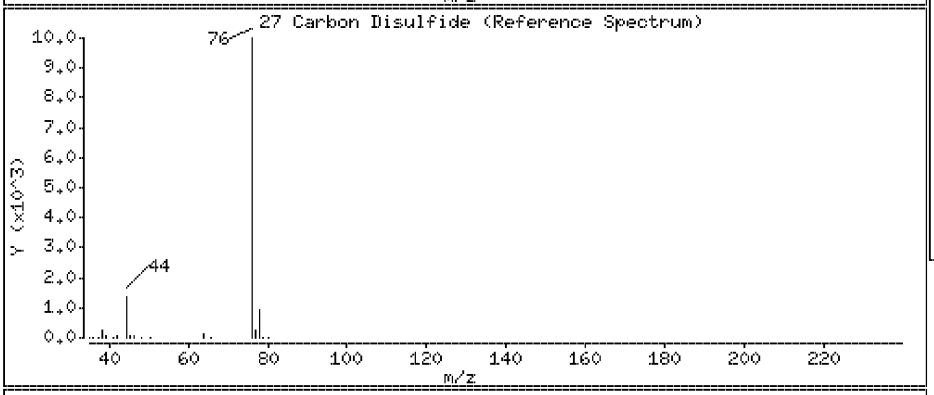
Concentration: 0.202 ppbv

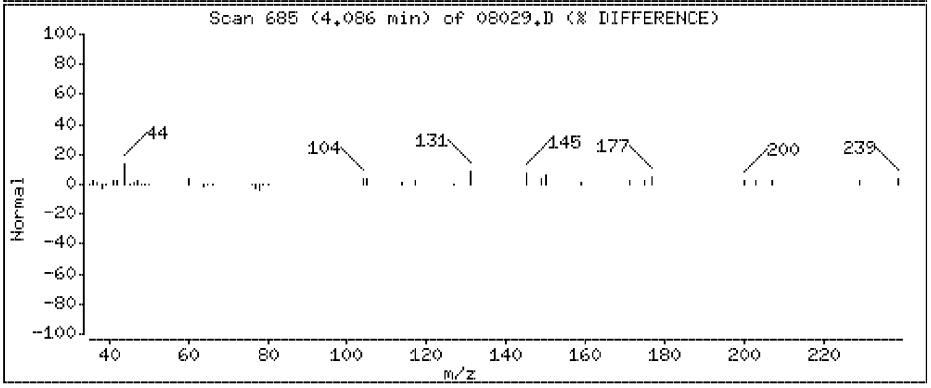












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

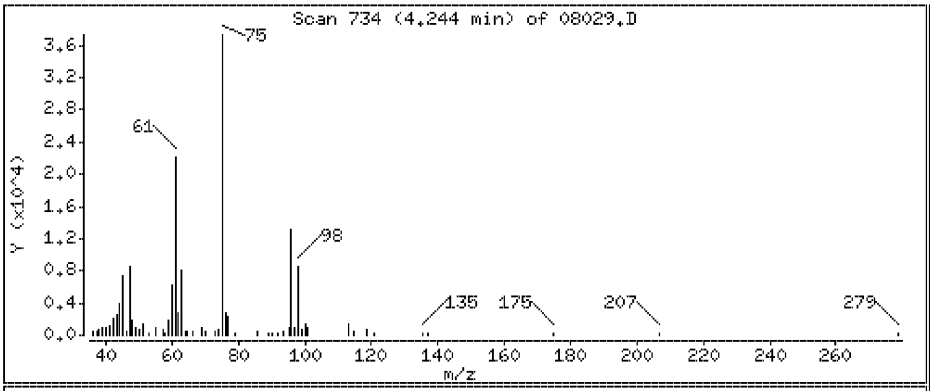
Operator: NCK

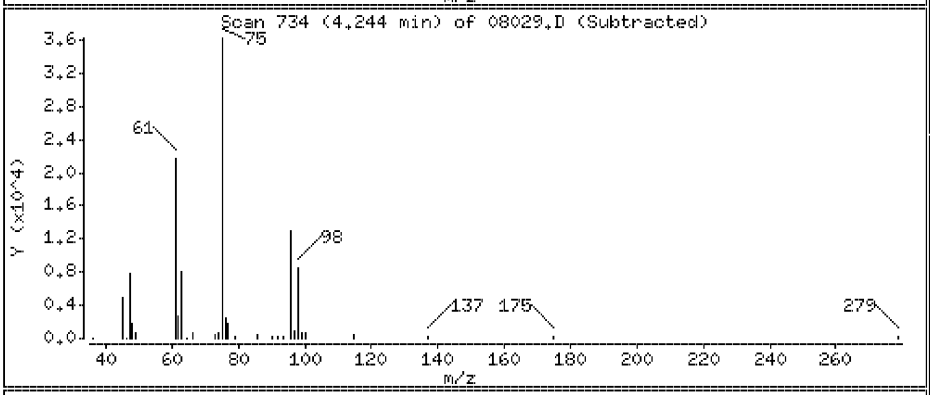
Column phase: J&W DB-5

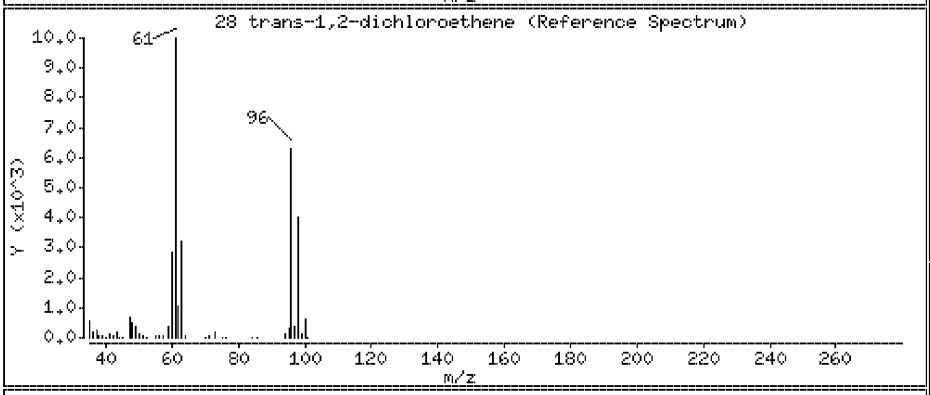
Column diameter: 0.32

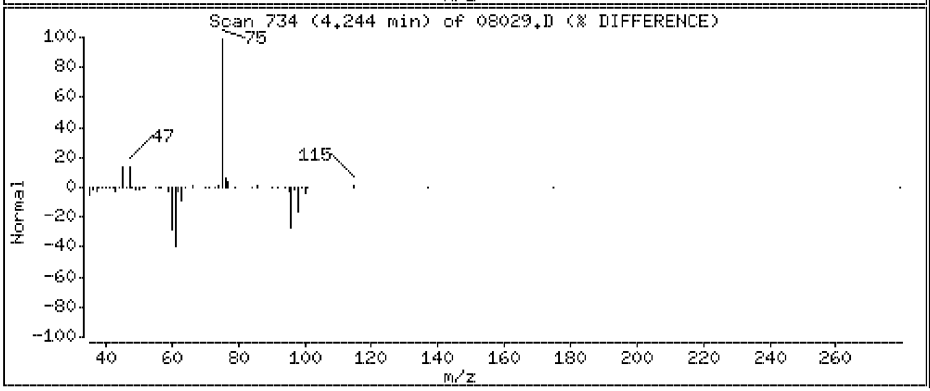
28 trans-1,2-dichloroethene

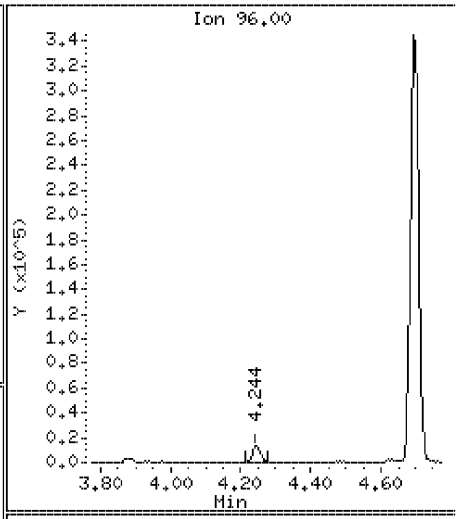
Concentration: 0.760 ppbv

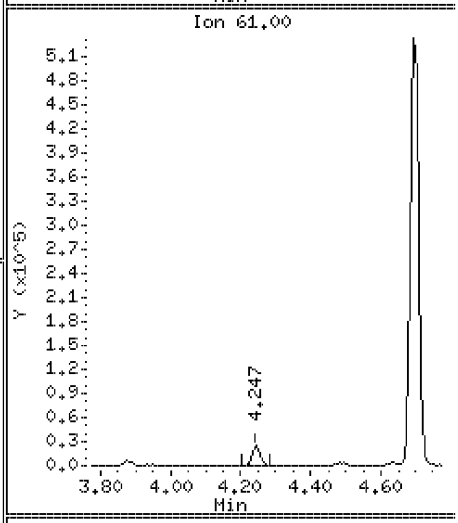


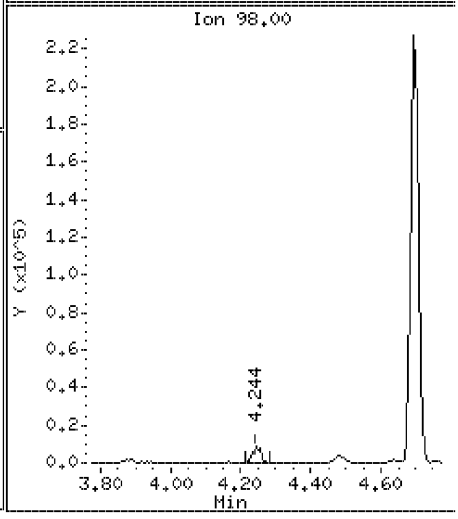












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

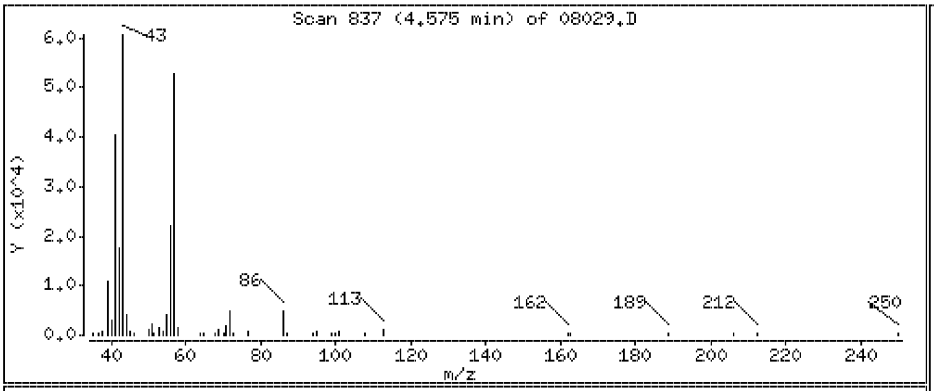
Operator: NCK

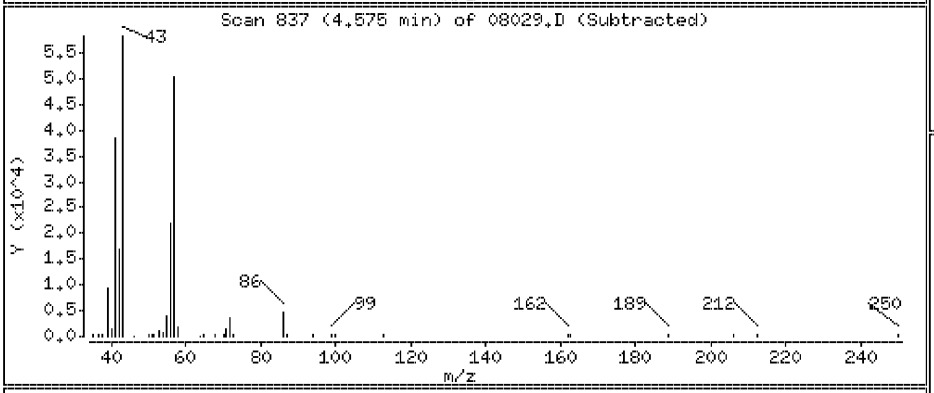
Column phase: J&W DB-5

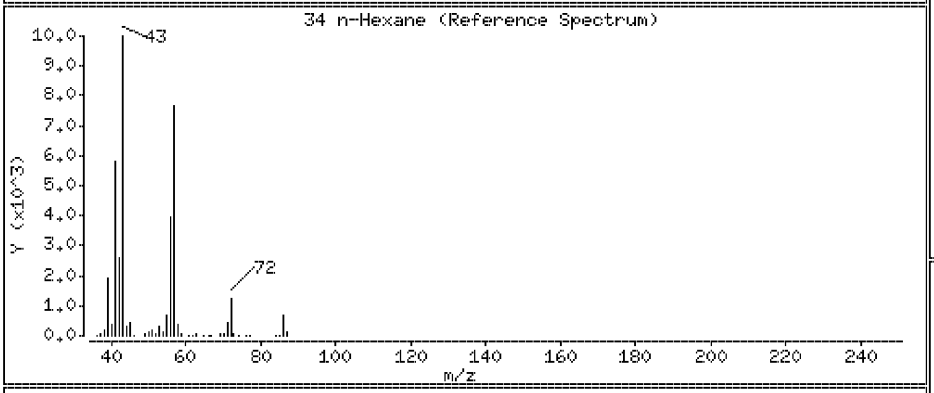
Column diameter: 0.32

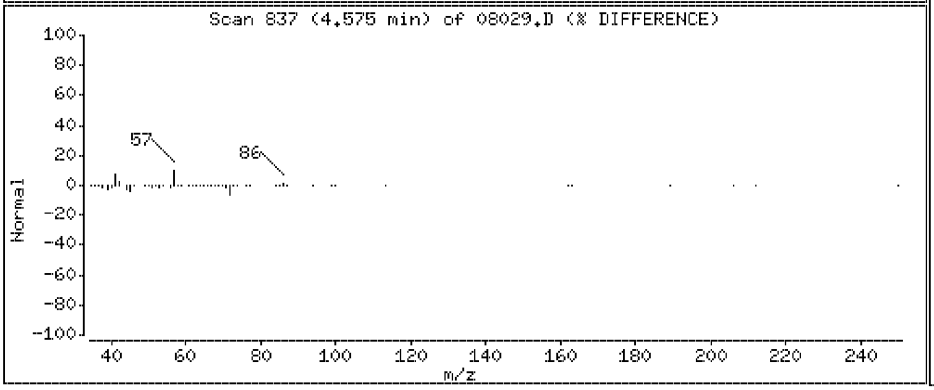
34 n-Hexane

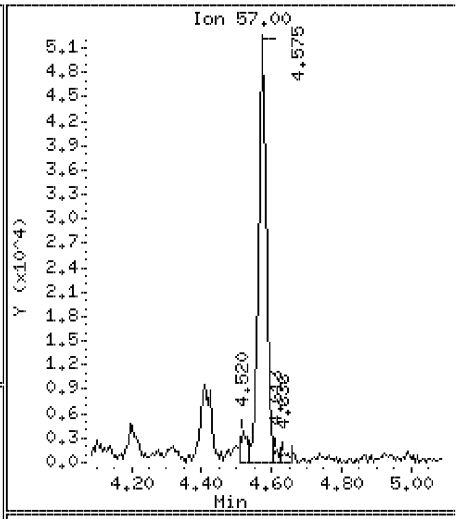
Concentration: 1.20 ppbv

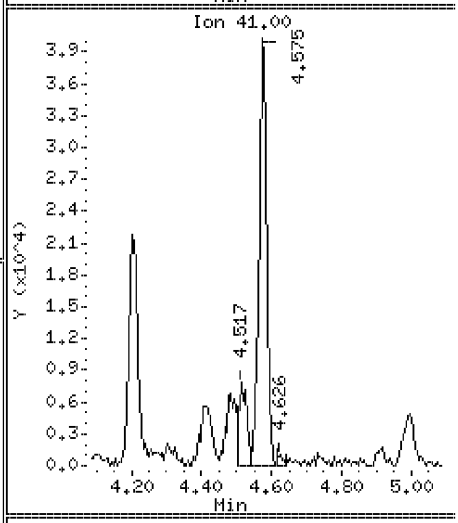


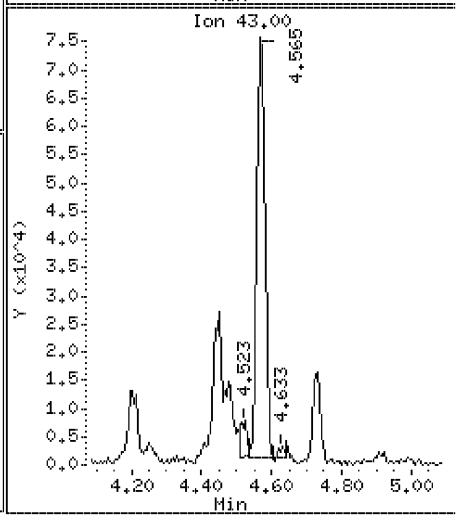












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

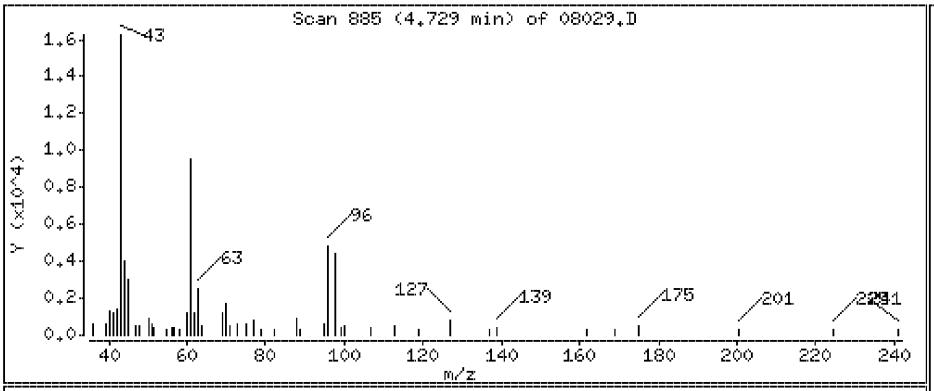
Operator: NCK

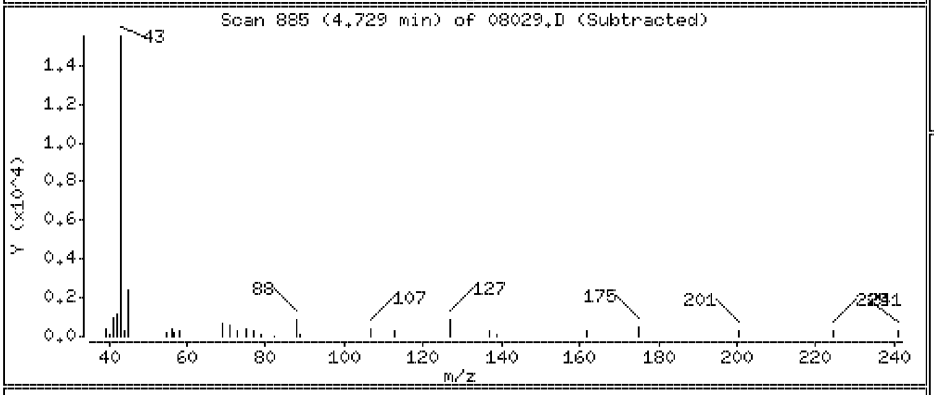
Column phase: J&W DB-5

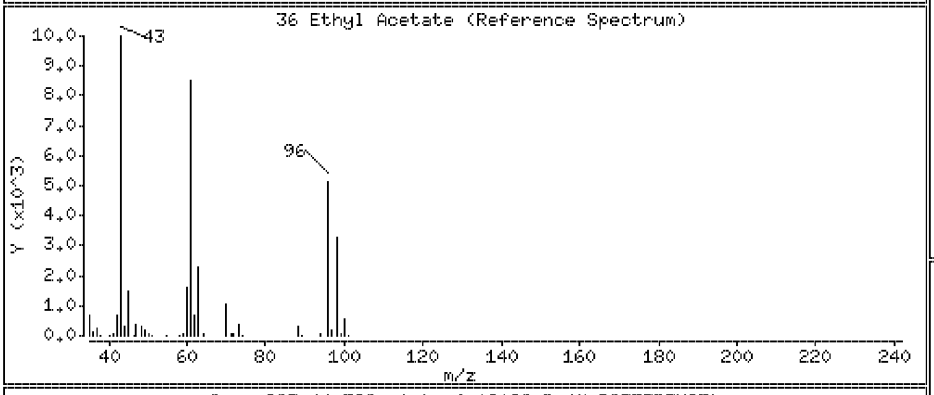
Column diameter: 0.32

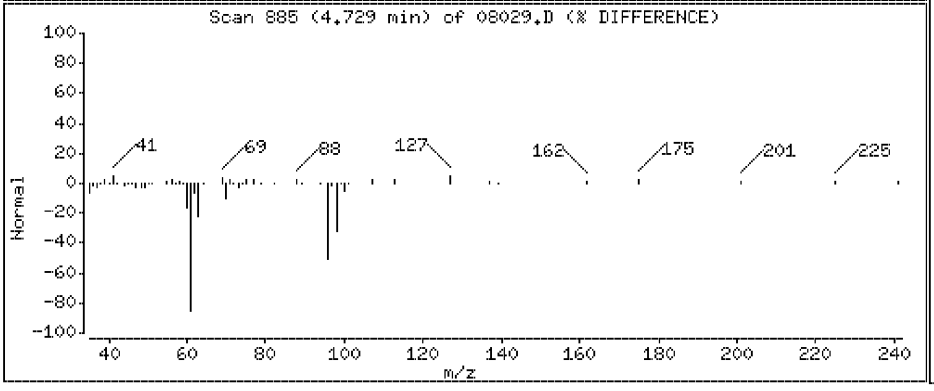
36 Ethyl Acetate

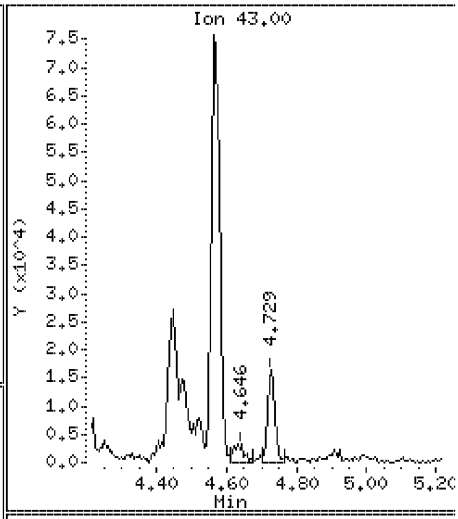
Concentration: 0.259 ppbv

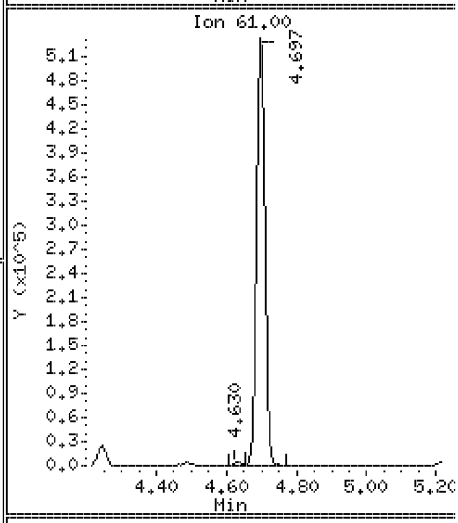


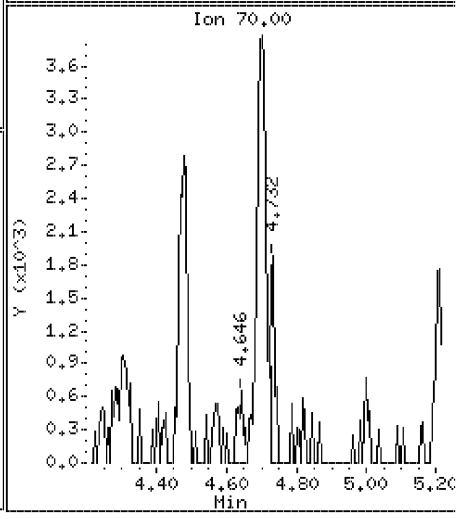












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

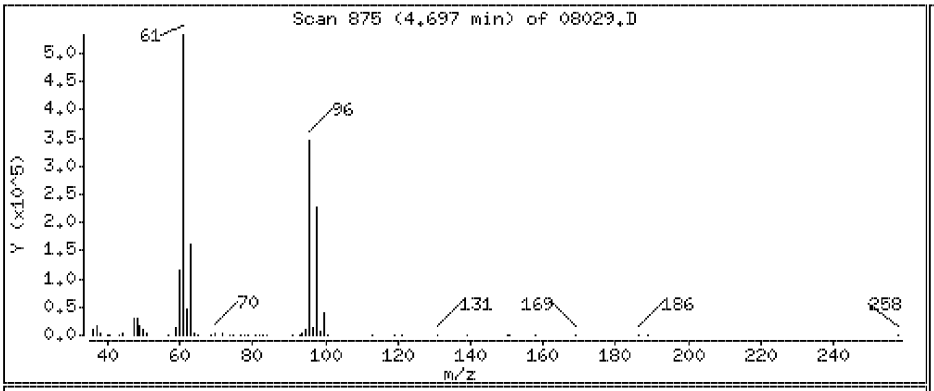
Operator: NCK

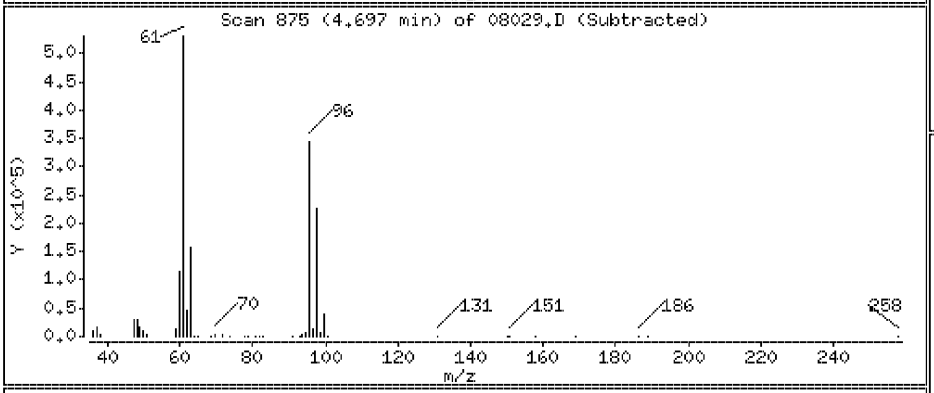
Column phase: J&W DB-5

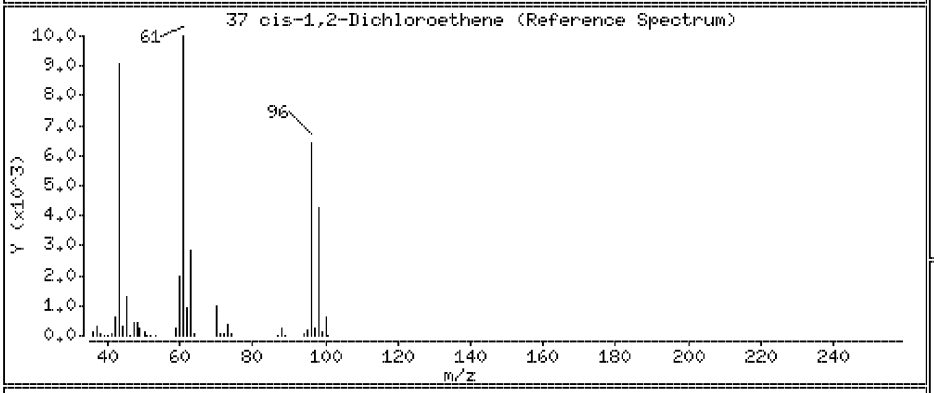
Column diameter: 0.32

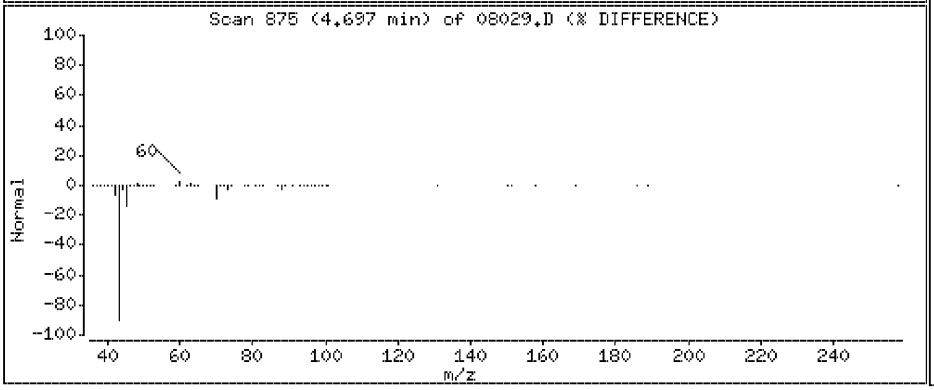
37 cis-1,2-Dichloroethene

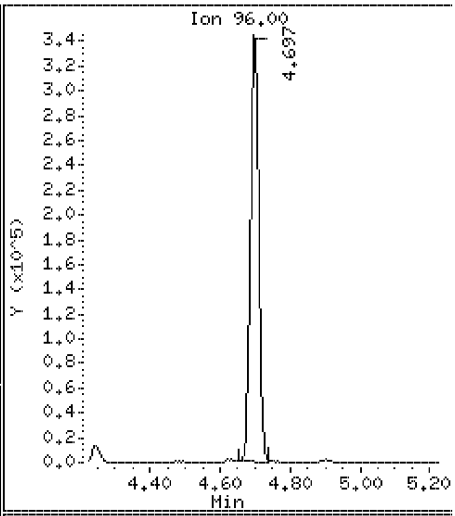
Concentration: 16.1 ppbv

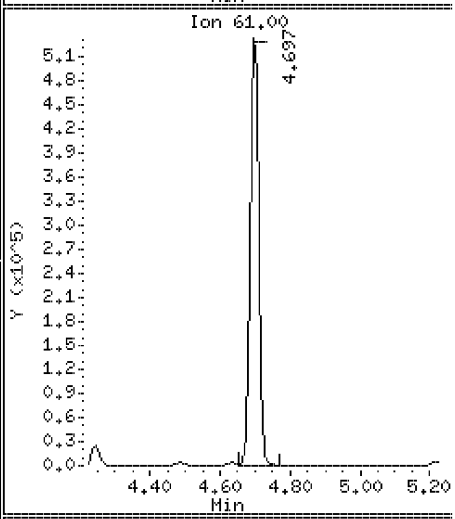


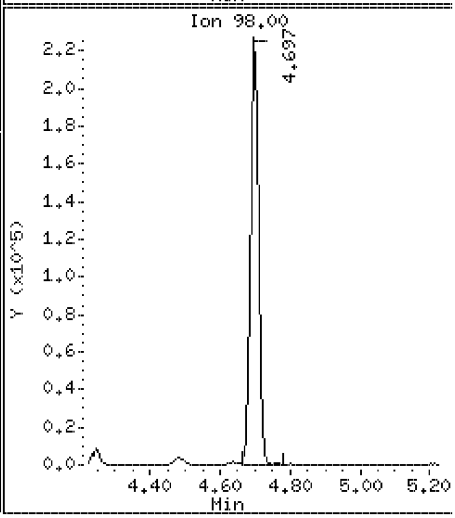












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

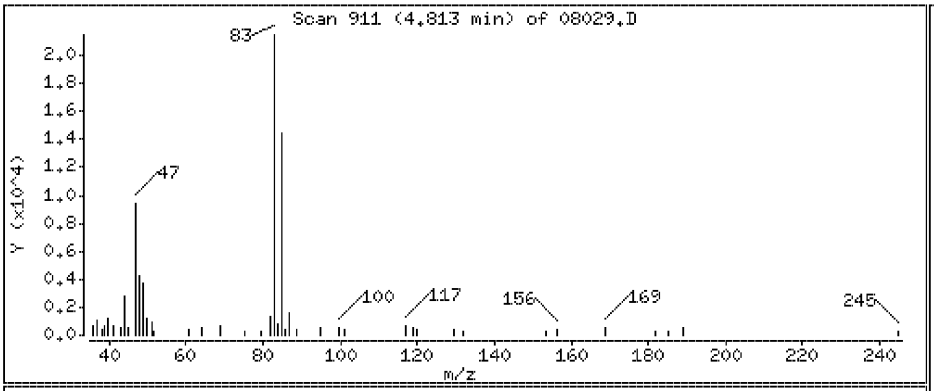
Operator: NCK

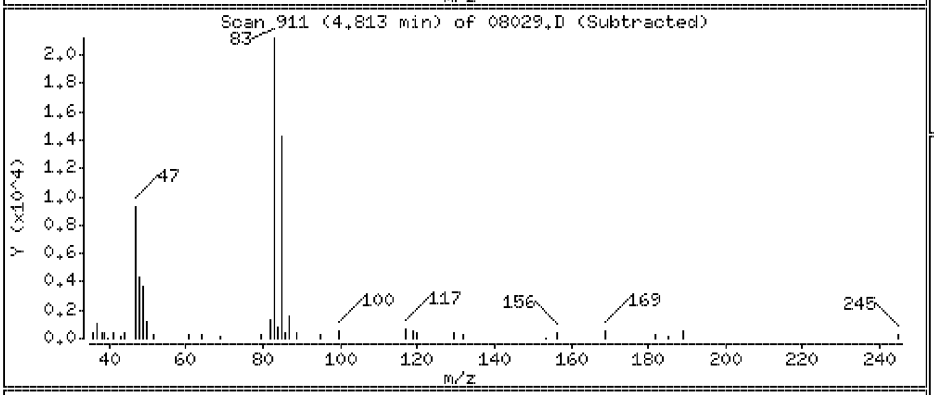
Column phase: J&W DB-5

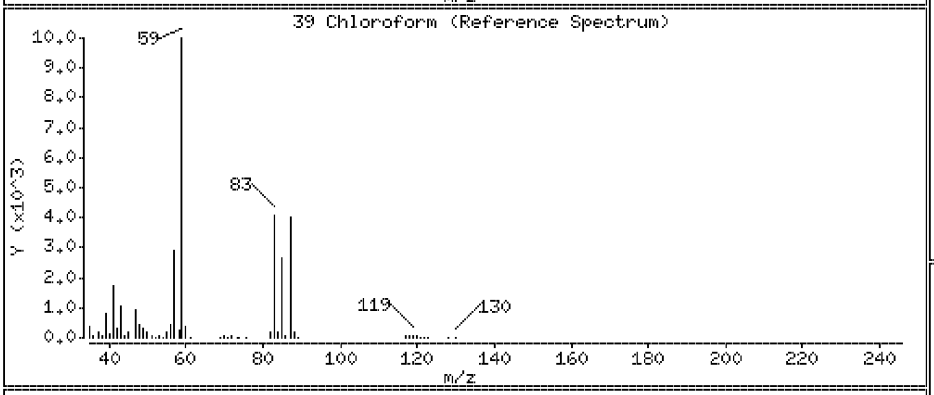
Column diameter: 0.32

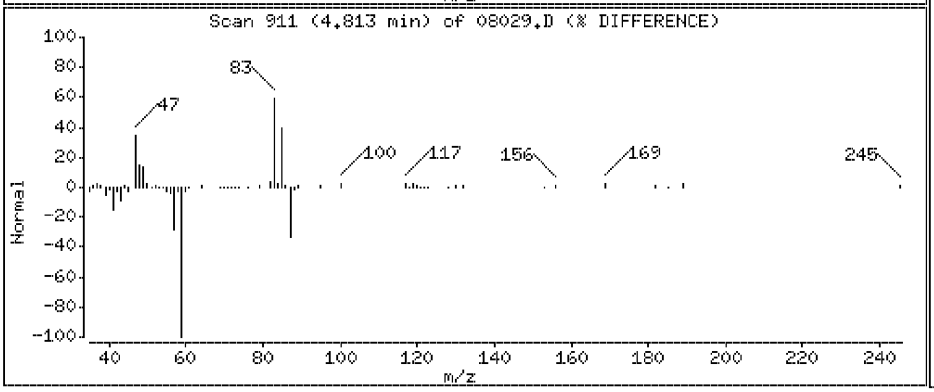
39 Chloroform

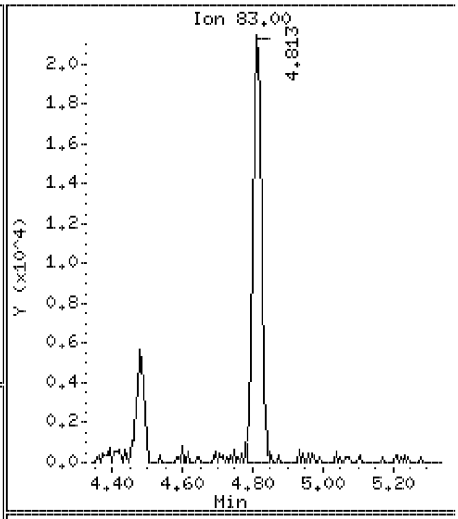
Concentration: 0.502 ppbv

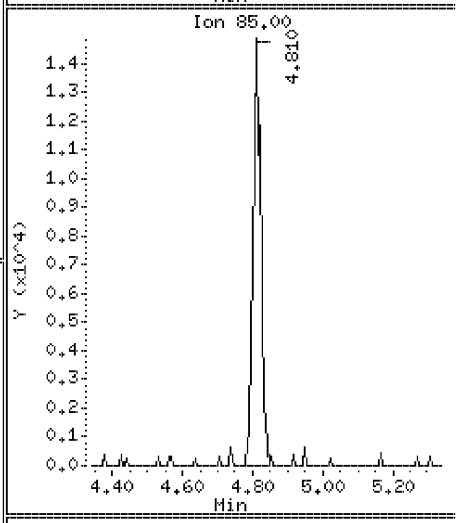


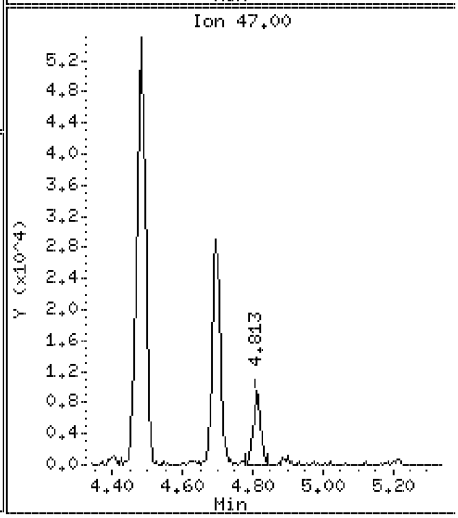












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

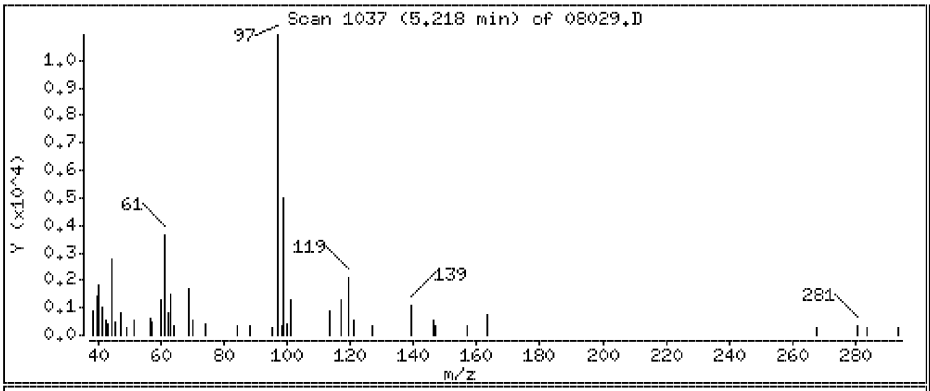
Operator: NCK

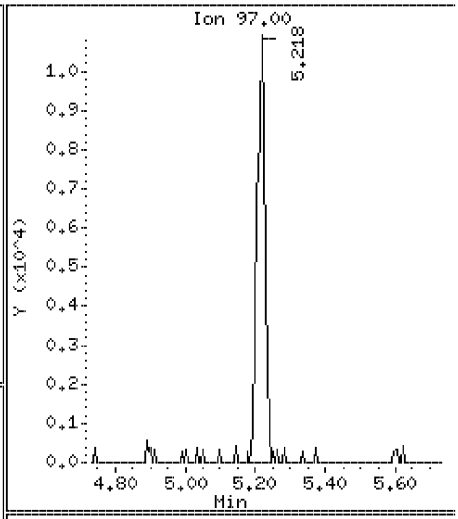
Column phase: J&W DB-5

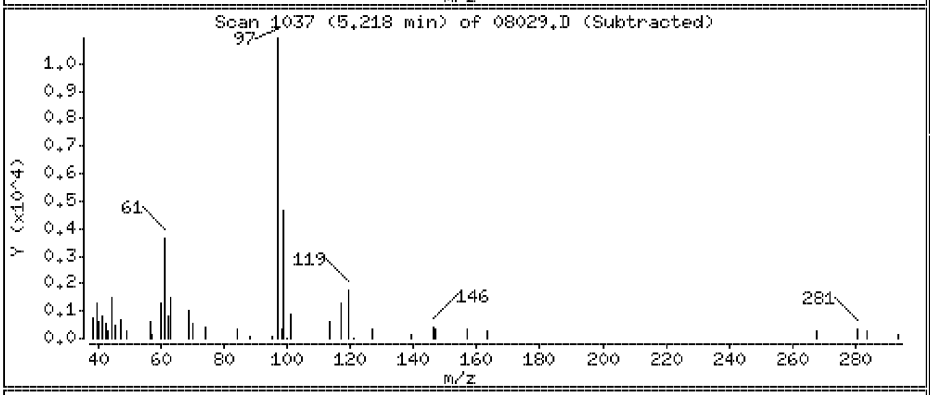
Column diameter: 0.32

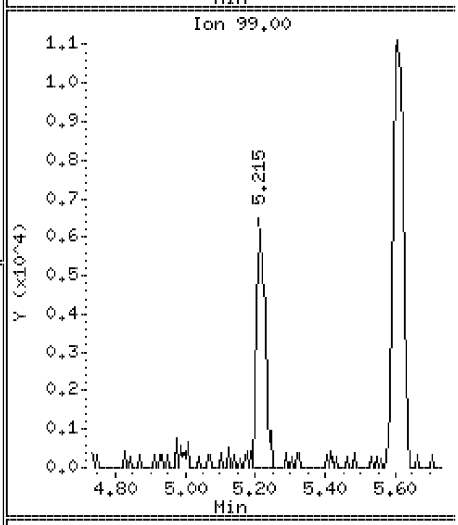
41 1,1,1-Trichloroethane

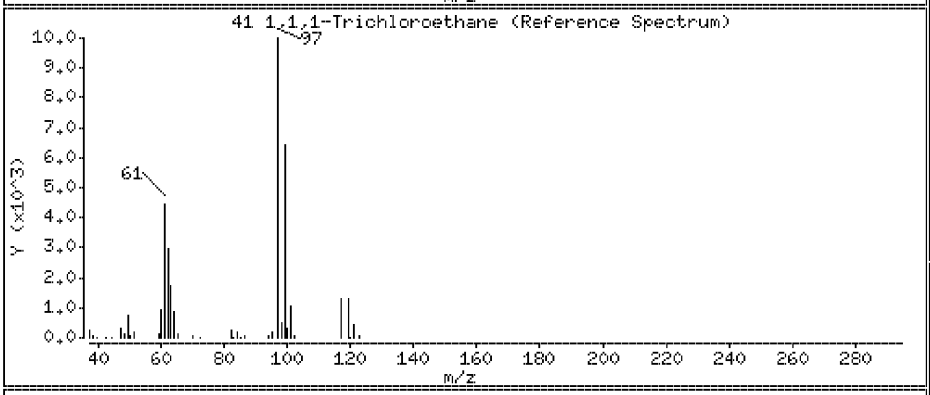
Concentration: 0.192 ppbv

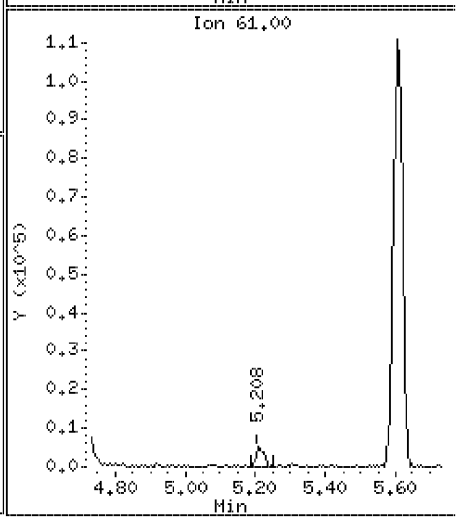


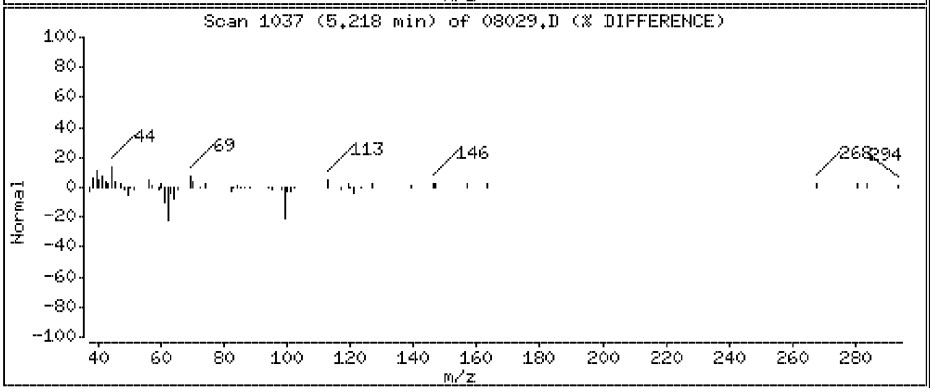












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

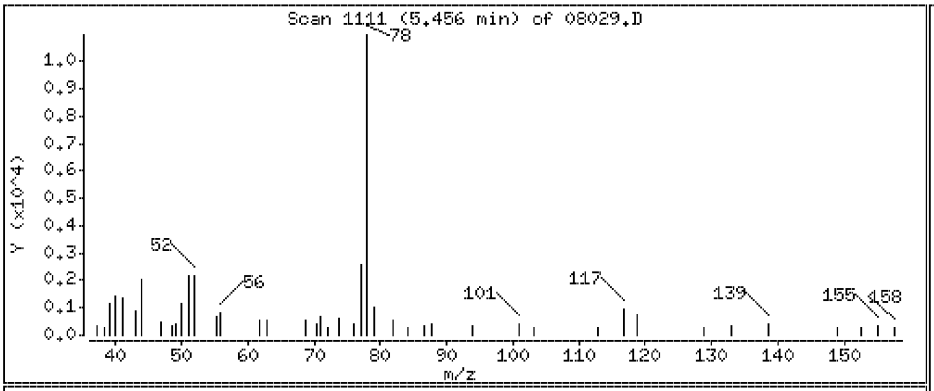
Operator: NCK

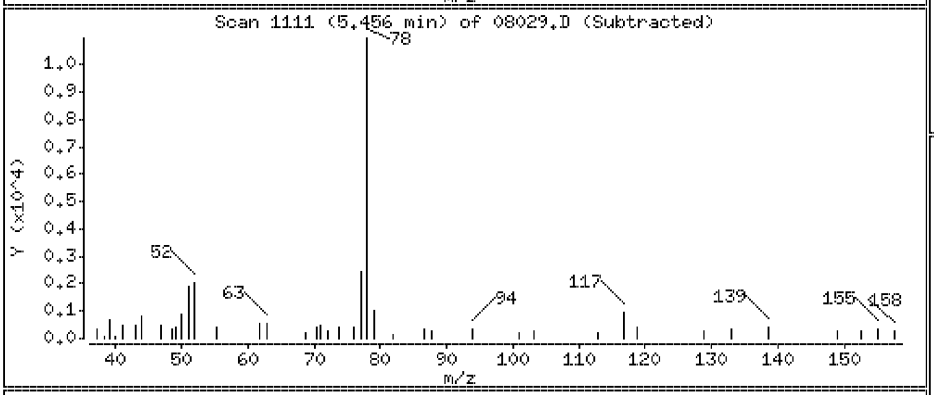
Column phase: J&W DB-5

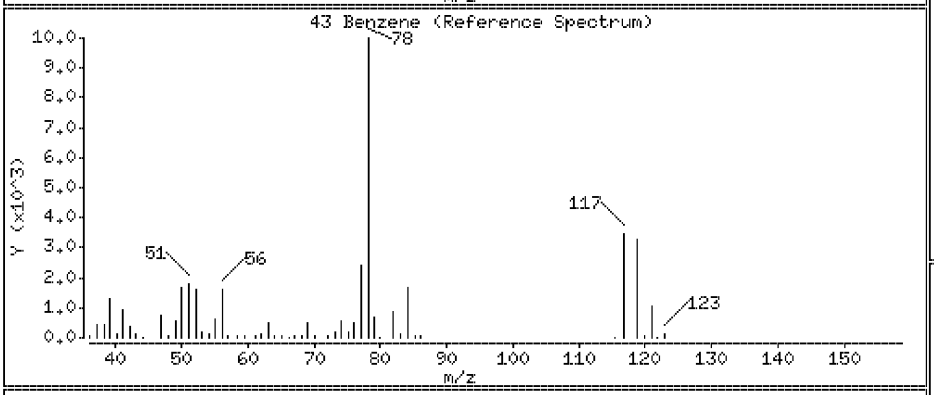
Column diameter: 0.32

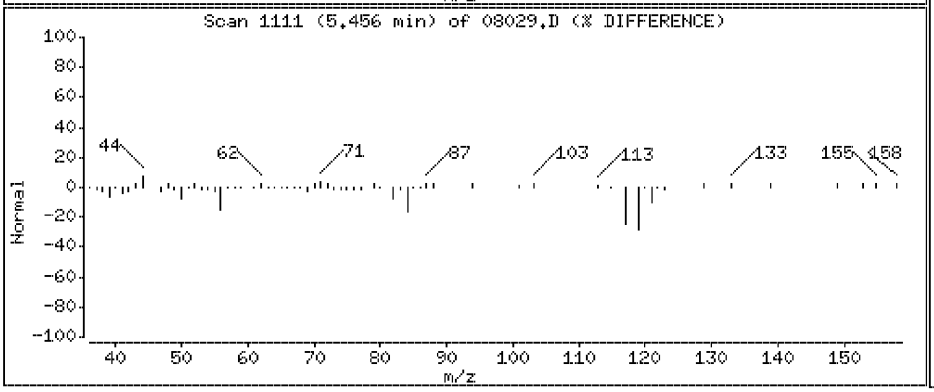
43 Benzene

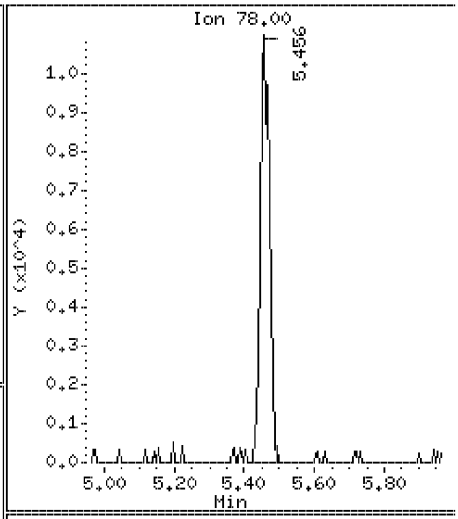
Concentration: 0.173 ppbv

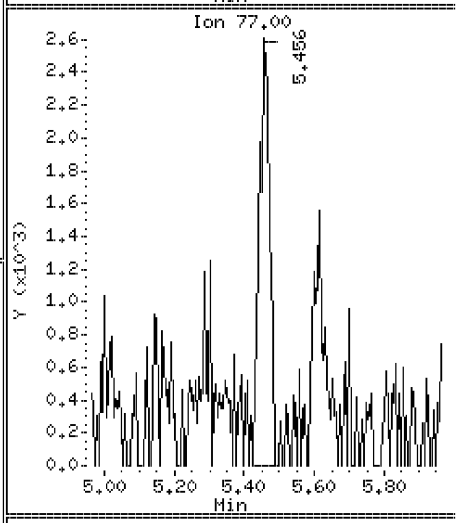


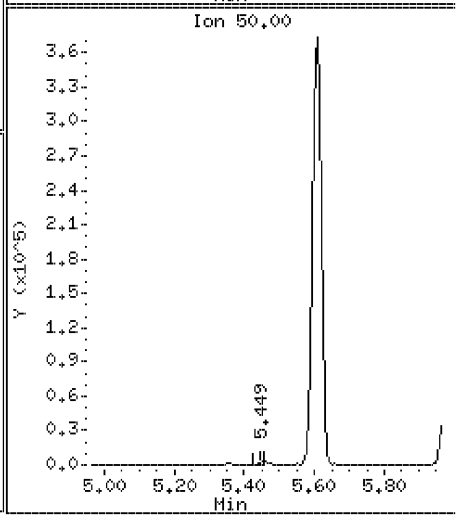












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

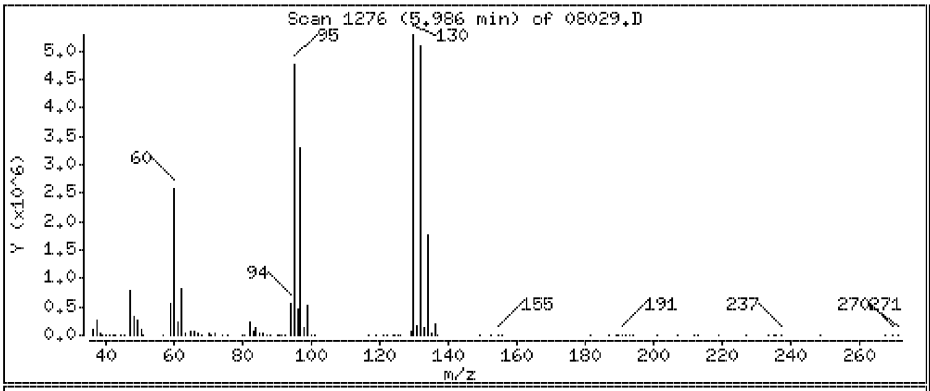
Operator: NCK

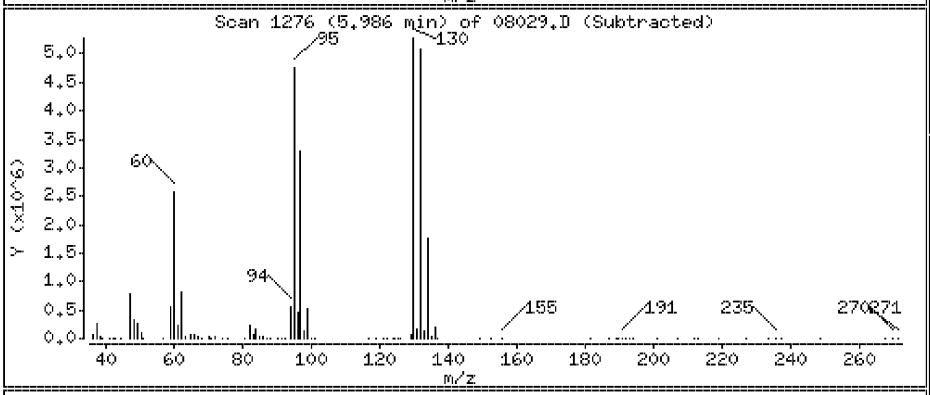
Column phase: J&W DB-5

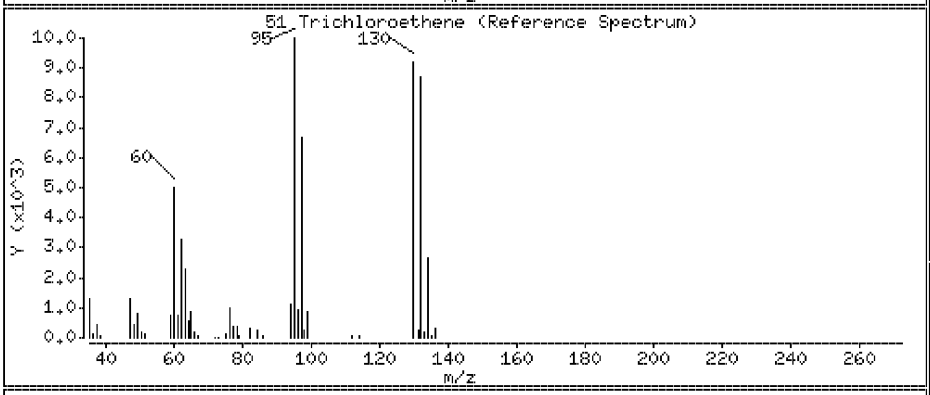
Column diameter: 0.32

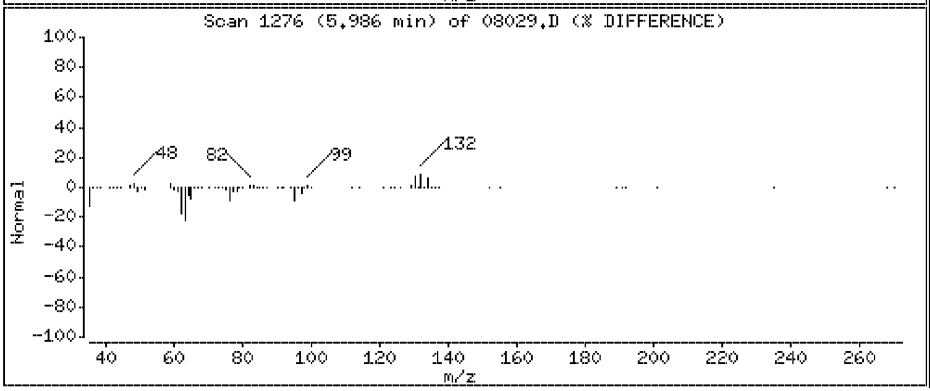
51 Trichloroethene

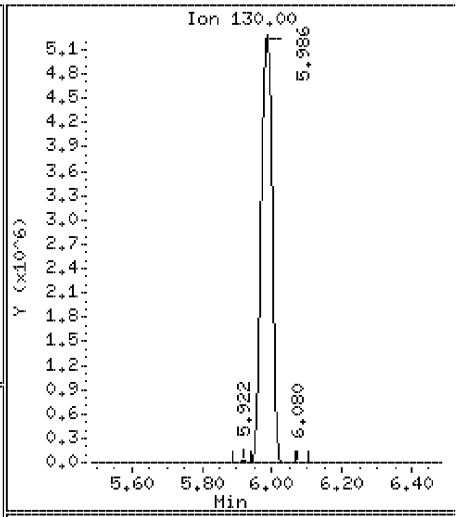
Concentration: 220 ppbv

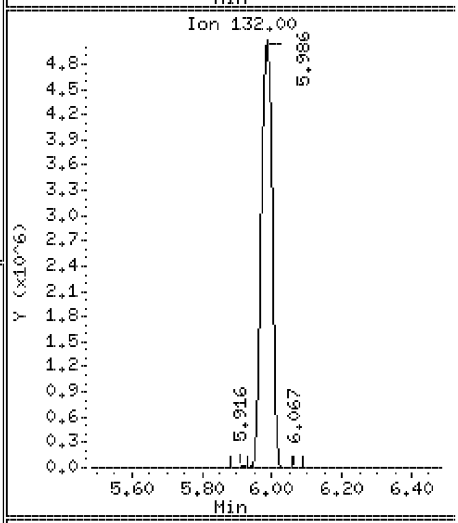


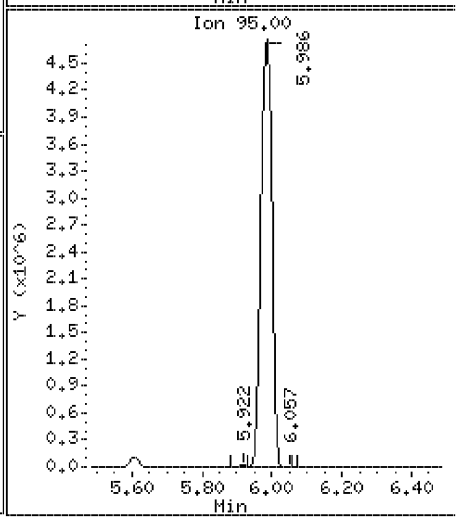












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

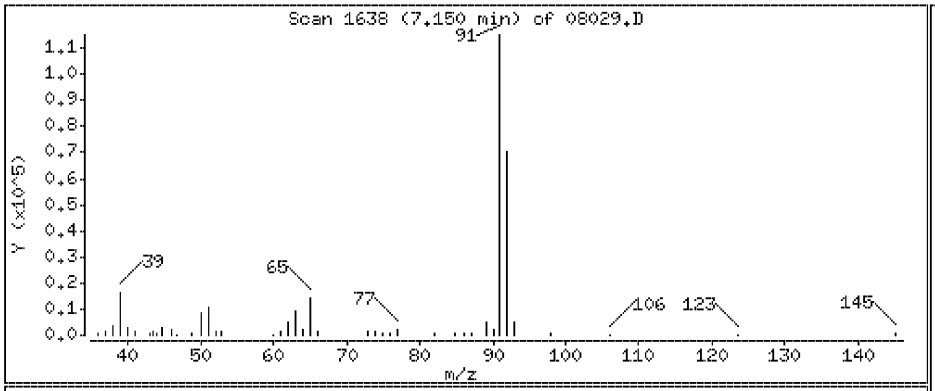
Operator: NCK

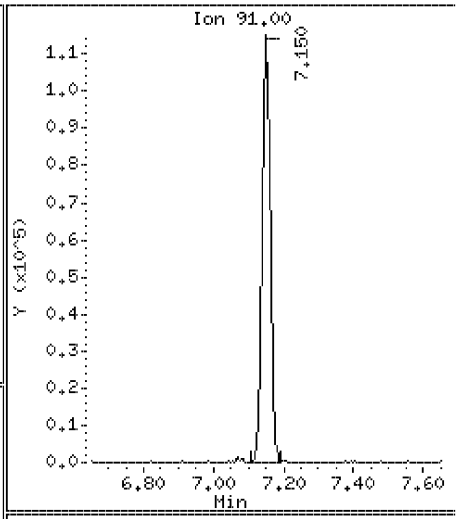
Column phase: J&W DB-5

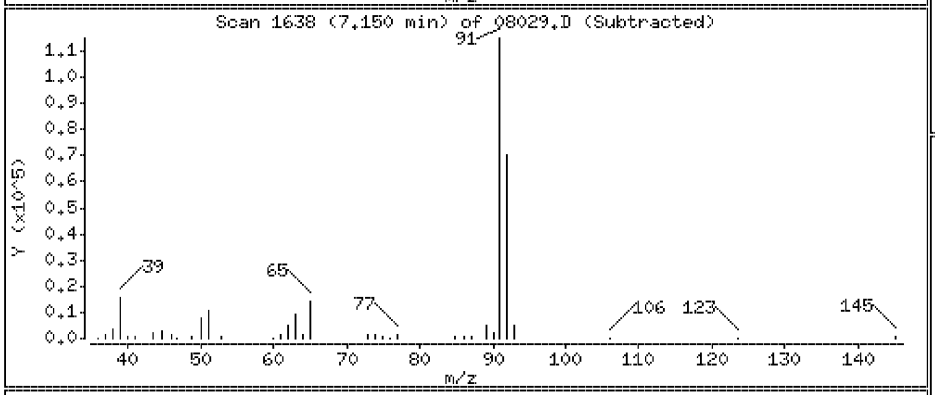
Column diameter: 0.32

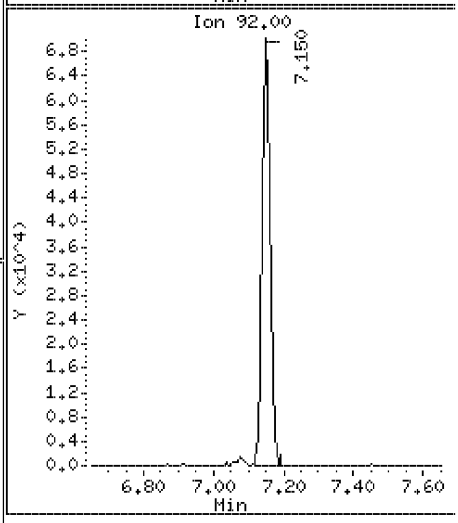
61 Toluene

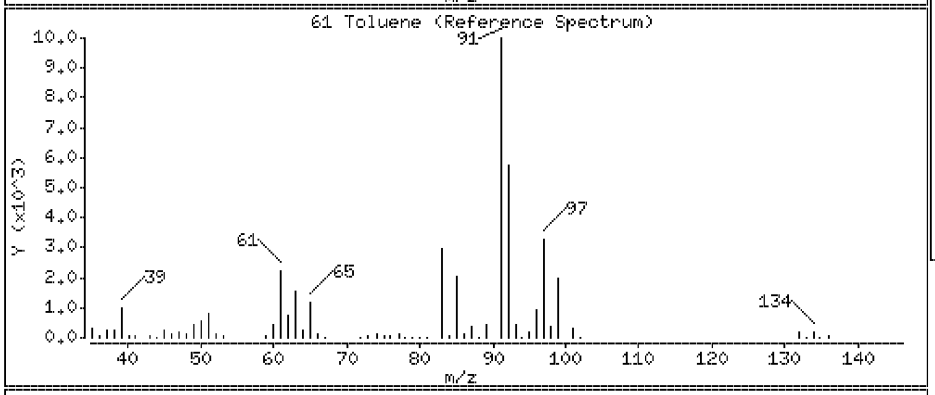
Concentration: 1.42 ppbv

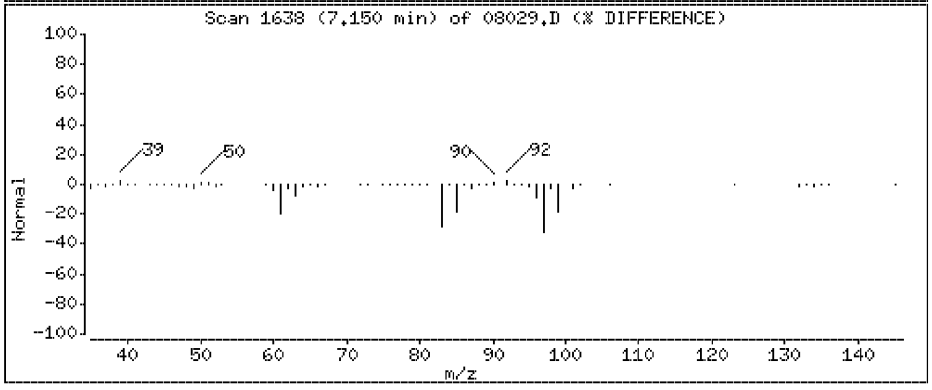












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

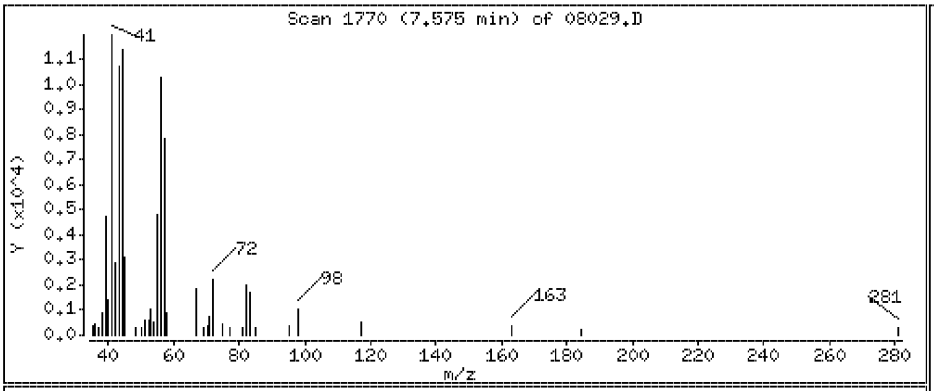
Operator: NCK

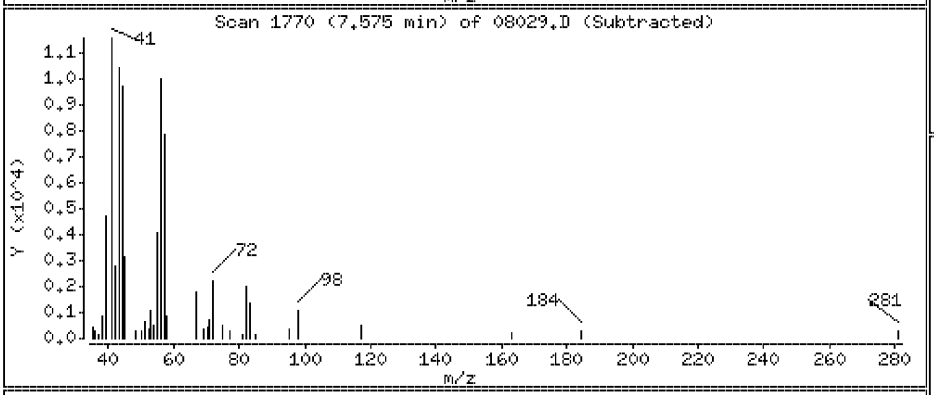
Column phase: J&W DB-5

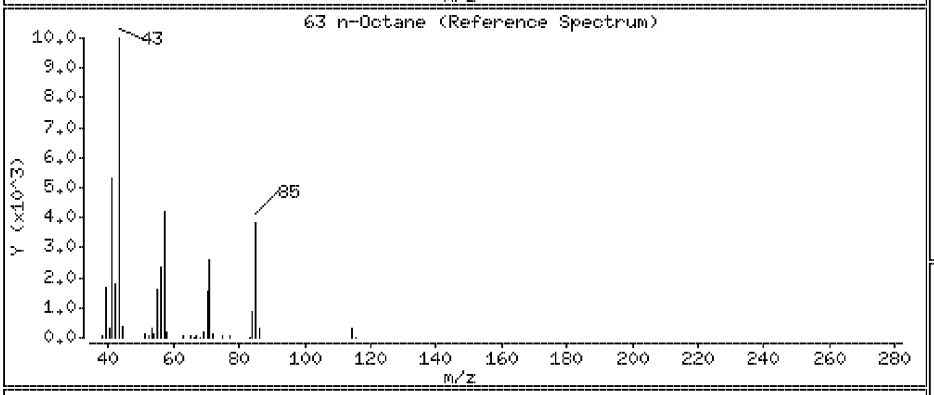
Column diameter: 0.32

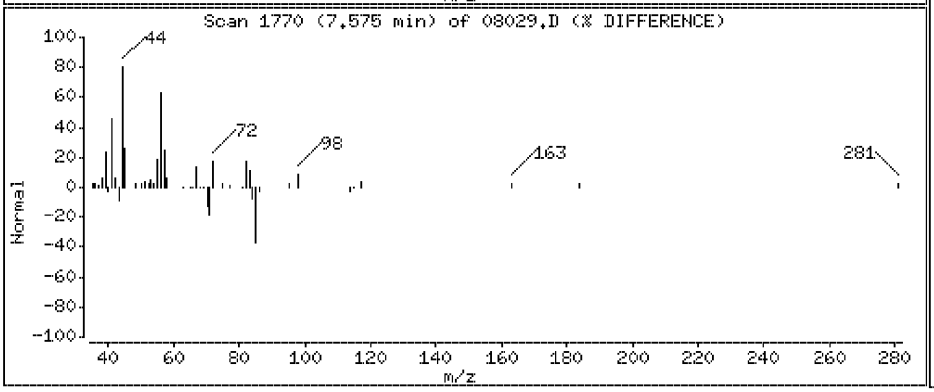
63 n-Octane

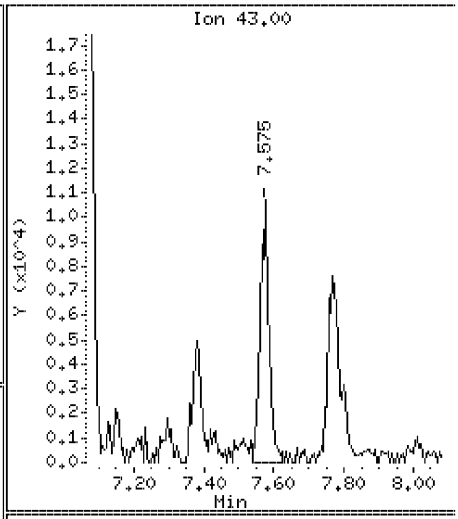
Concentration: 0.199 ppbv

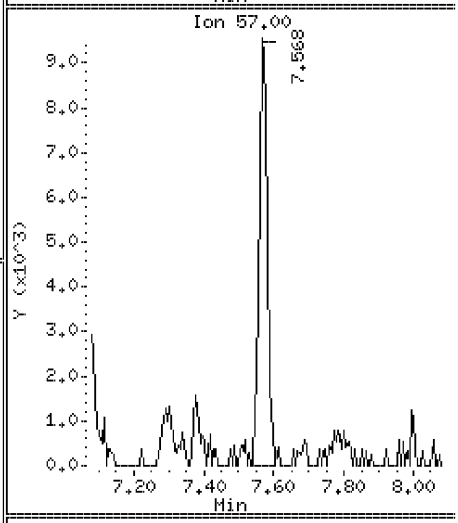


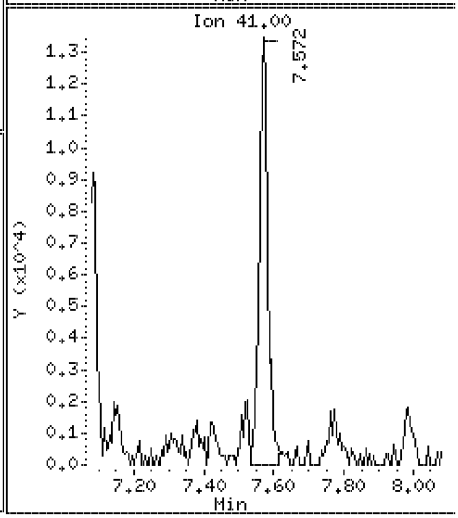












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

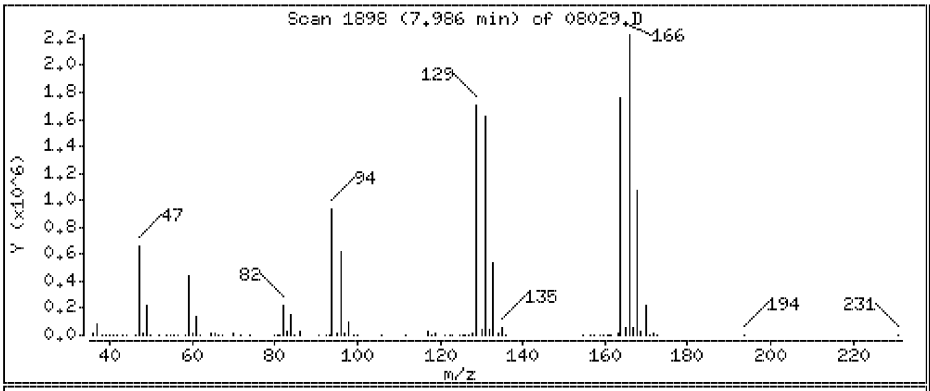
Operator: NCK

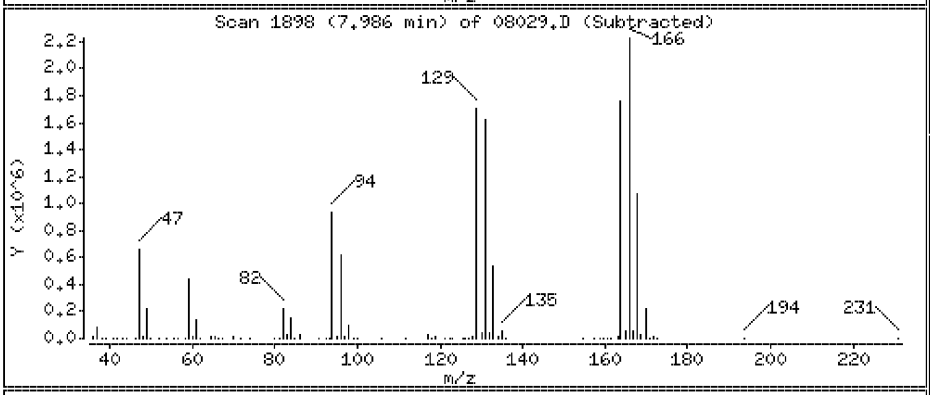
Column phase: J&W DB-5

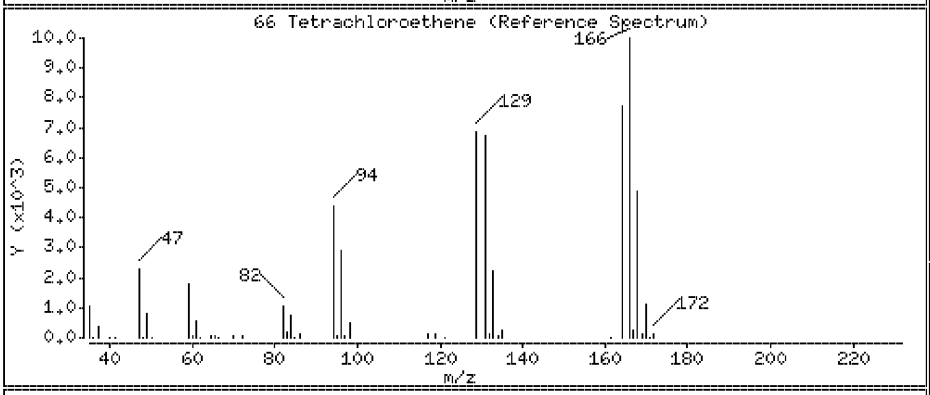
Column diameter: 0.32

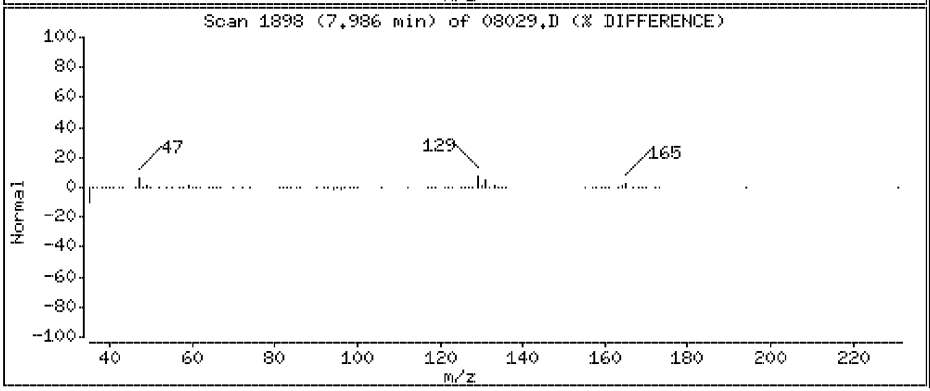
66 Tetrachloroethene

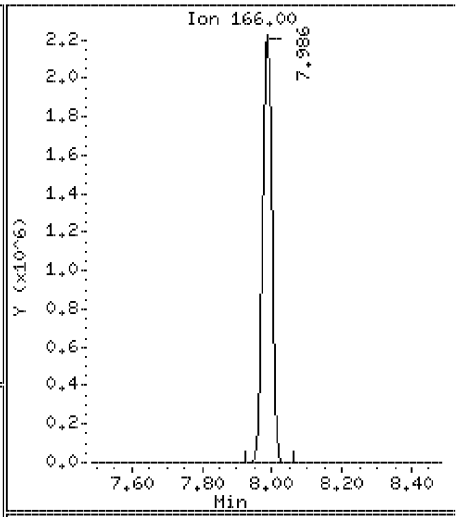
Concentration: 73.3 ppbv

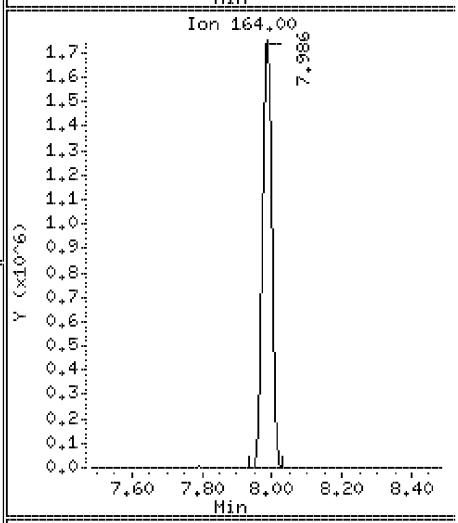


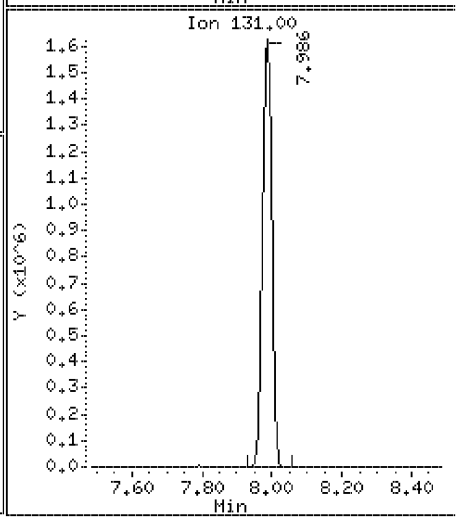












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

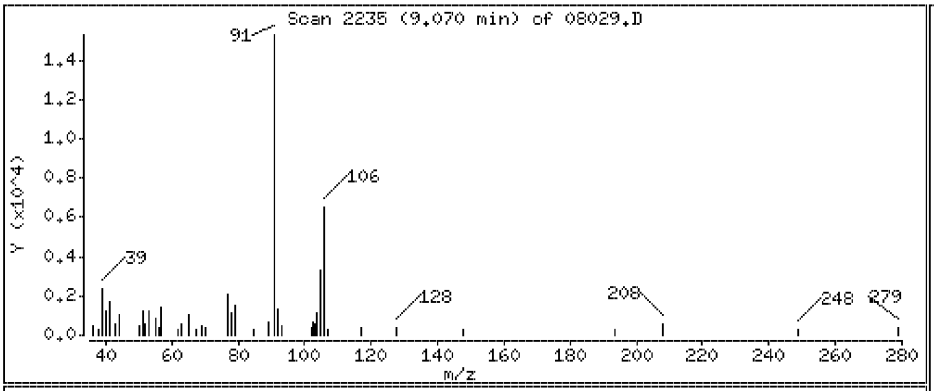
Operator: NCK

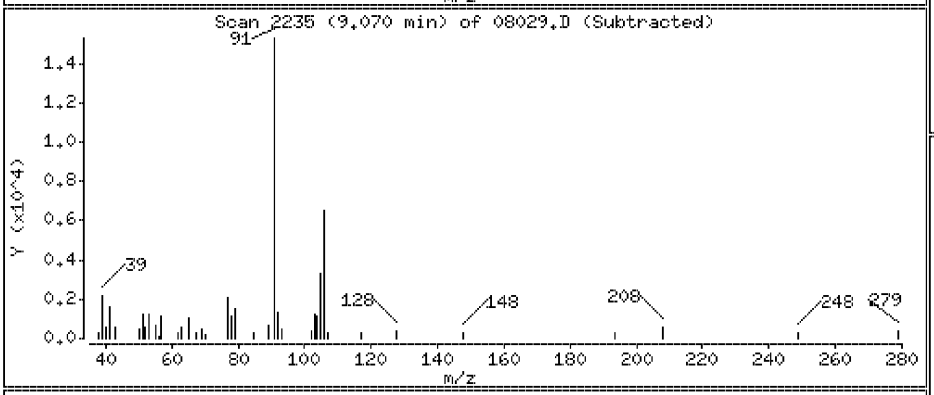
Column phase: J&W DB-5

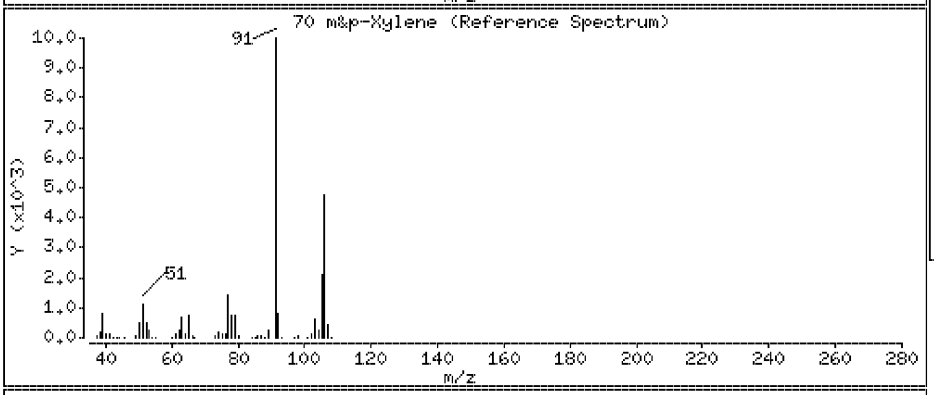
Column diameter: 0.32

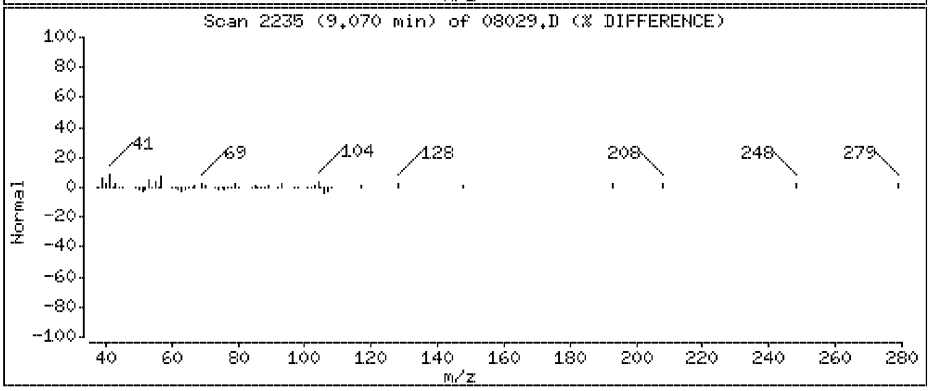
70 m&p-Xylene

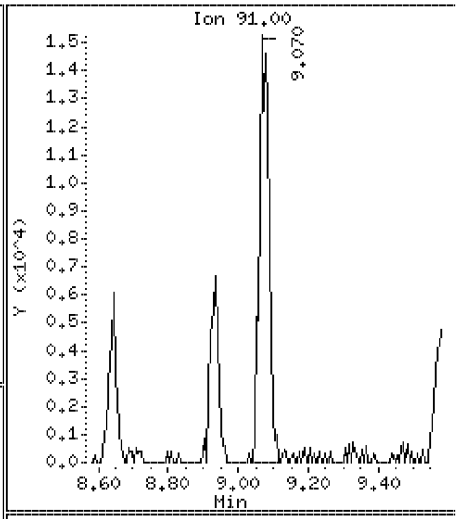
Concentration: 0.493 ppbv

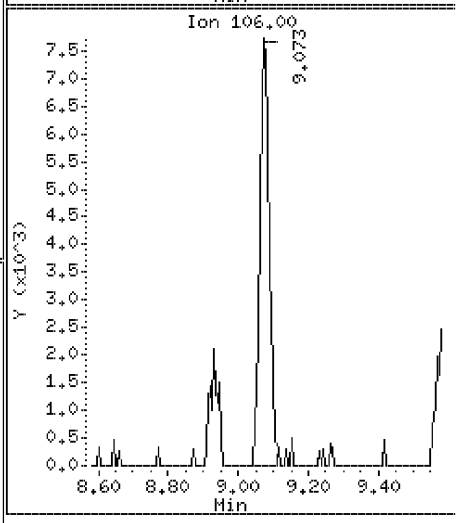












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

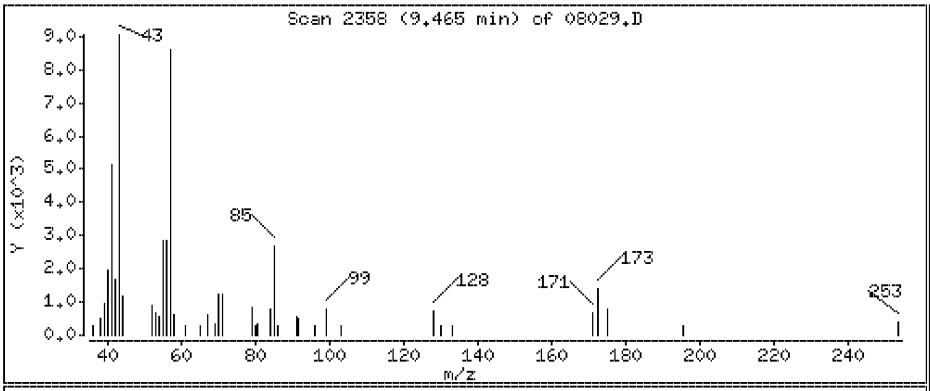
Operator: NCK

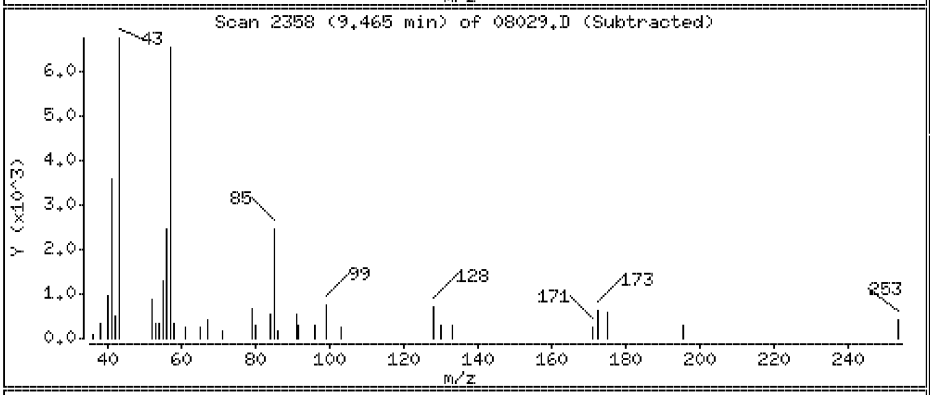
Column phase: J&W DB-5

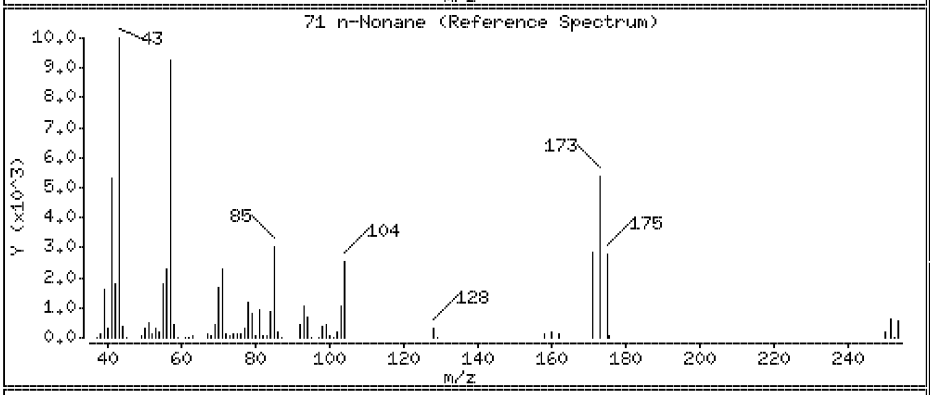
Column diameter: 0.32

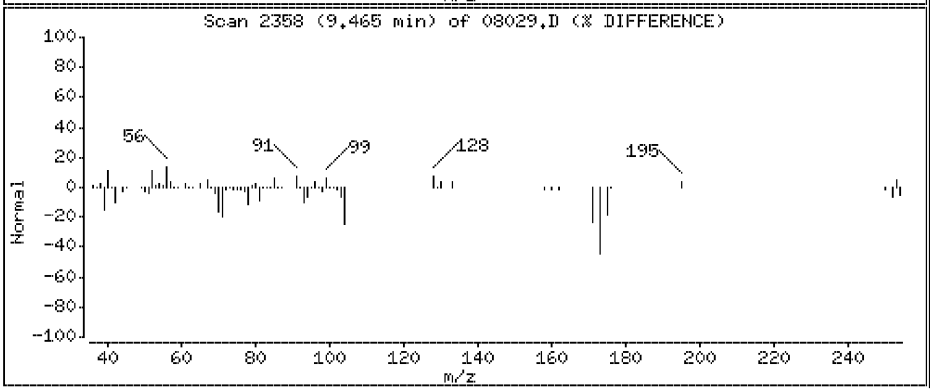
71 n-Nonane

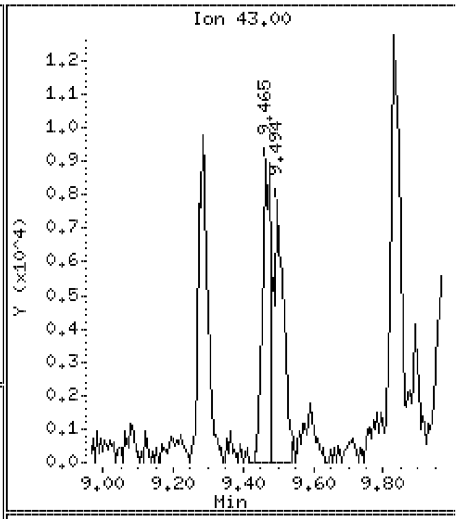
Concentration: 0.182 ppbv

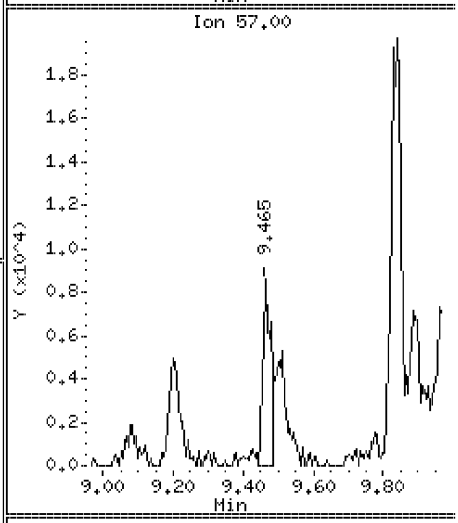


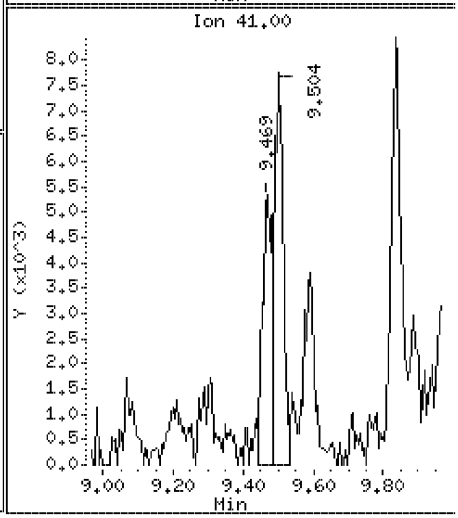












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

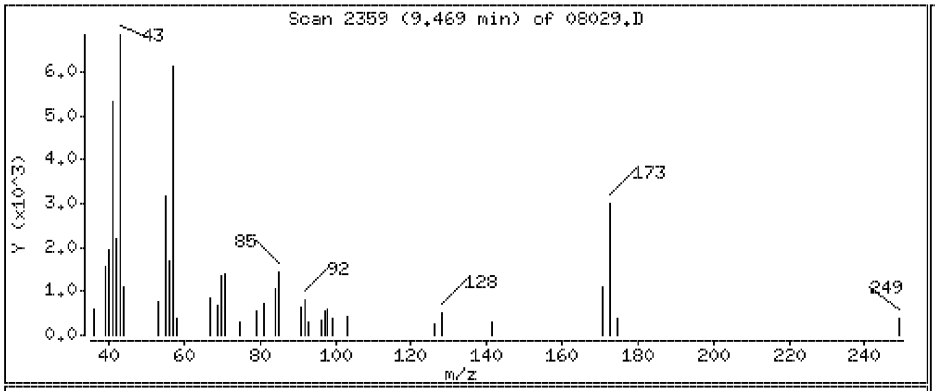
Operator: NCK

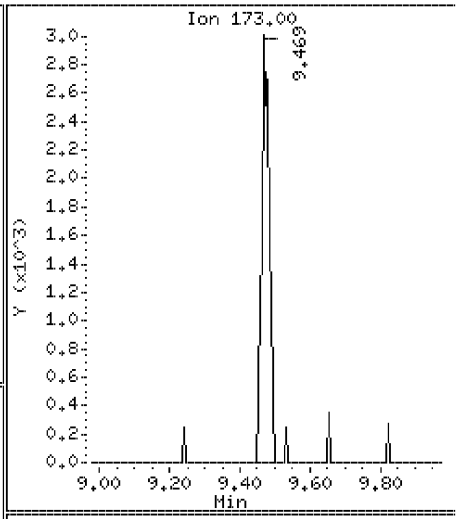
Column phase: J&W DB-5

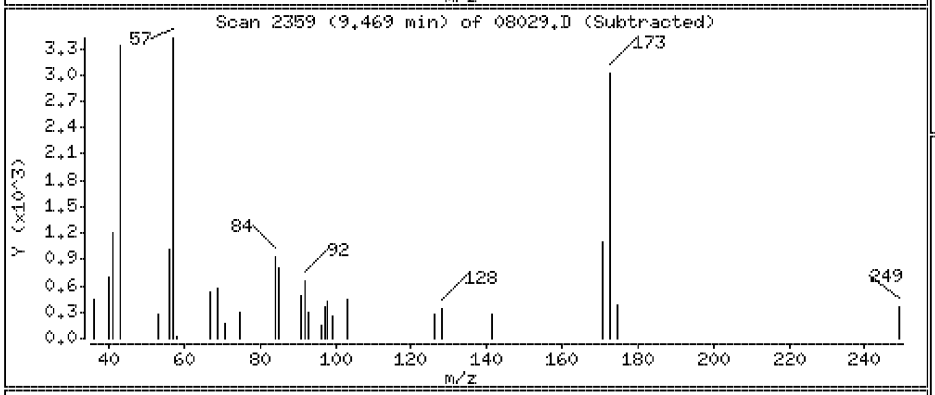
Column diameter: 0.32

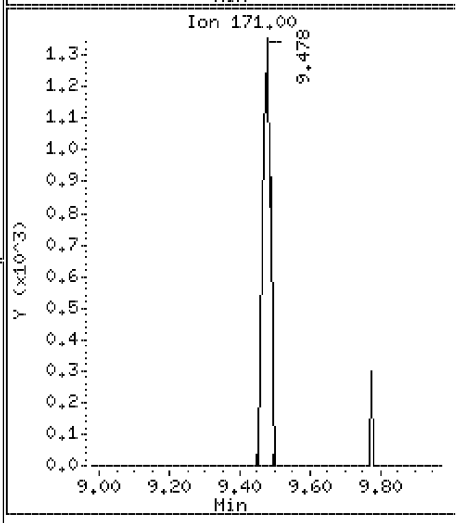
72 Bromoform

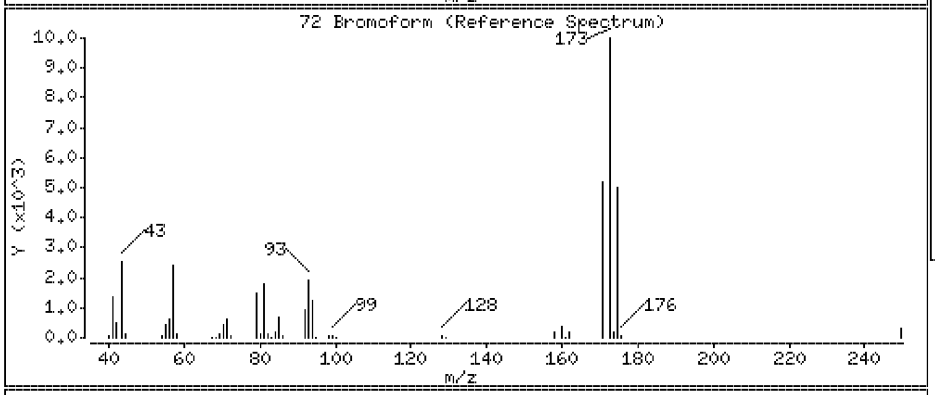
Concentration: 0.387 ppbv

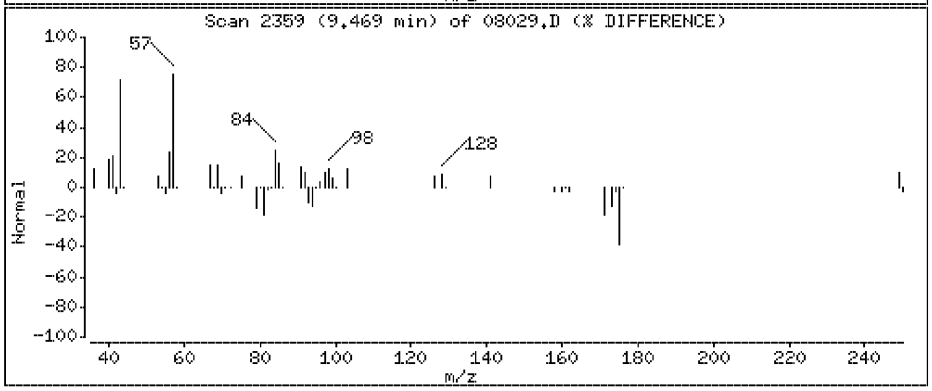












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

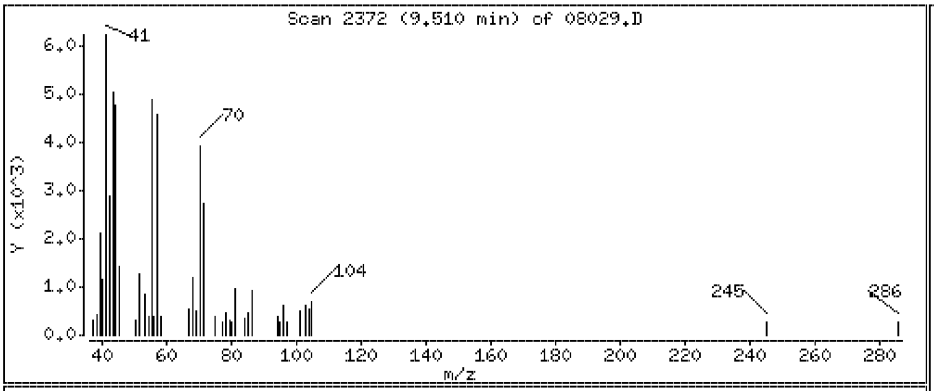
Operator: NCK

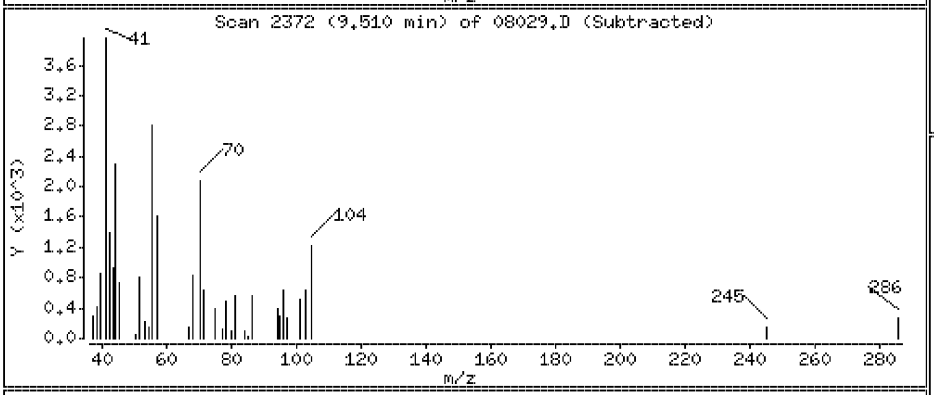
Column phase: J&W DB-5

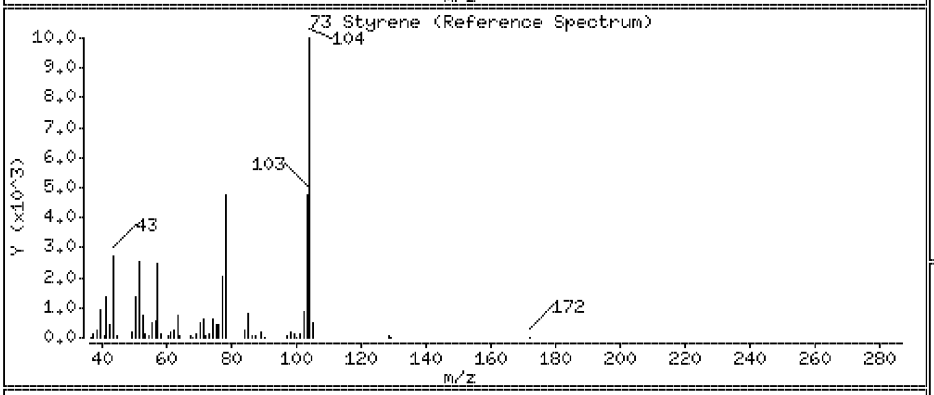
Column diameter: 0.32

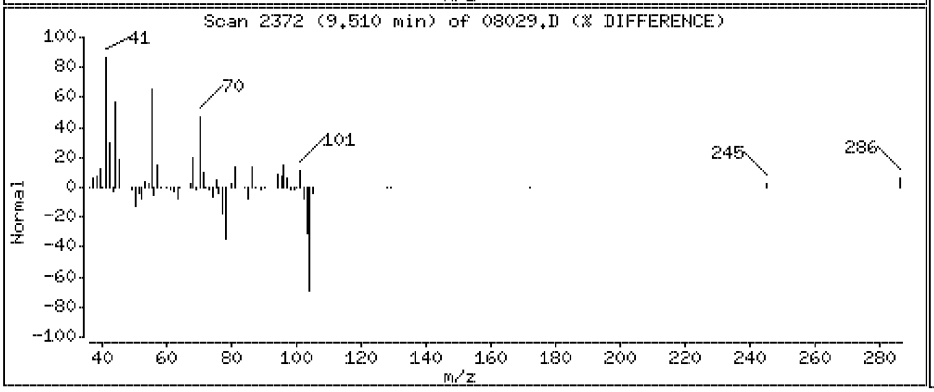
73 Styrene

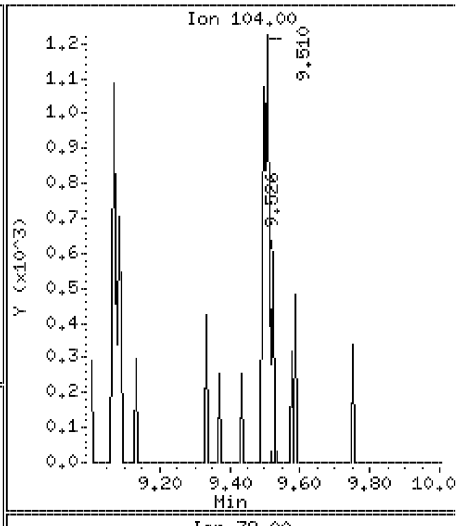
Concentration: 0.233 ppbv

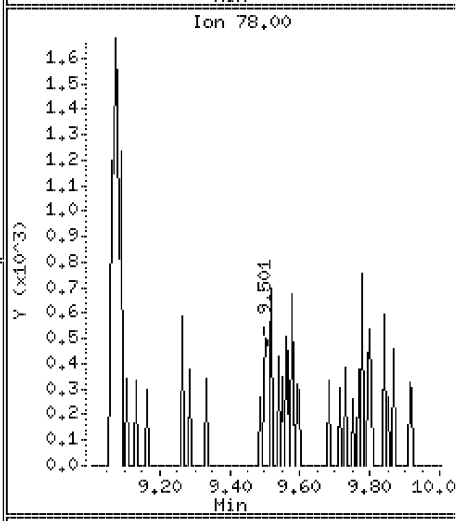


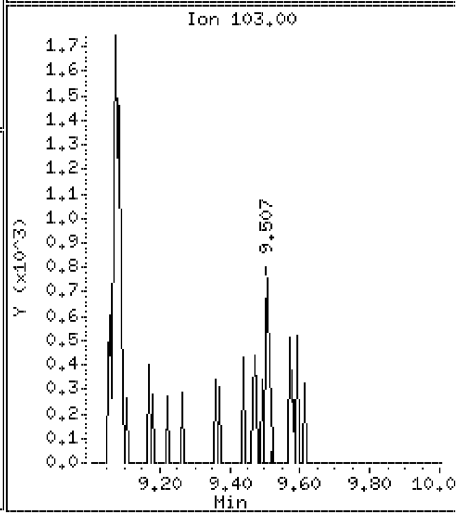












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

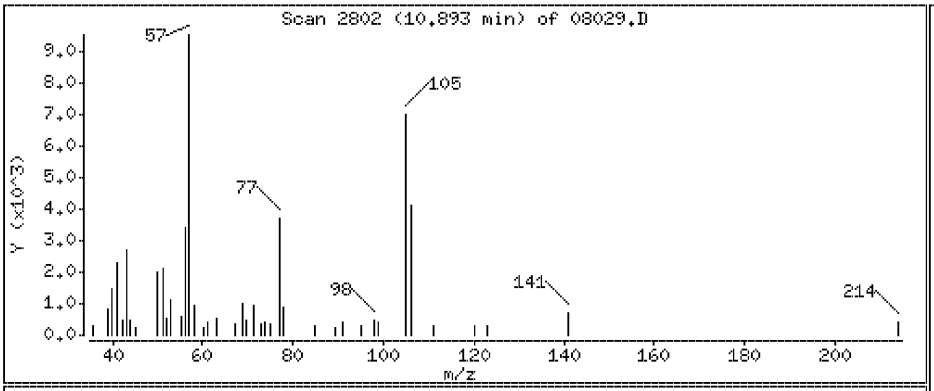
Operator: NCK

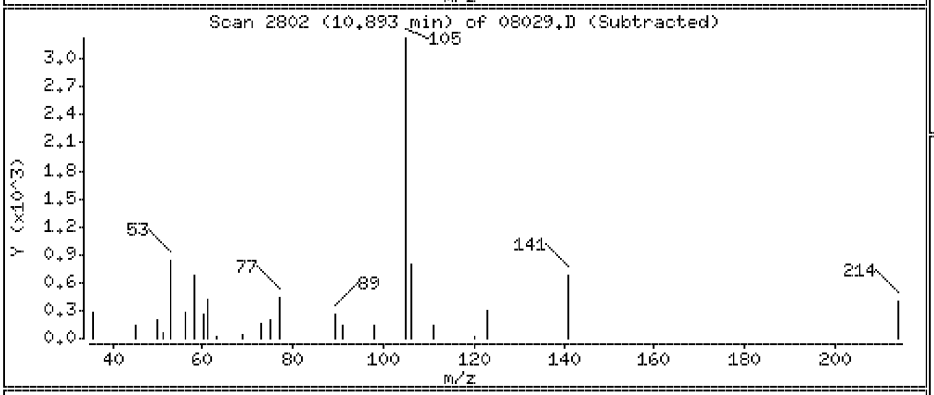
Column phase: J&W DB-5

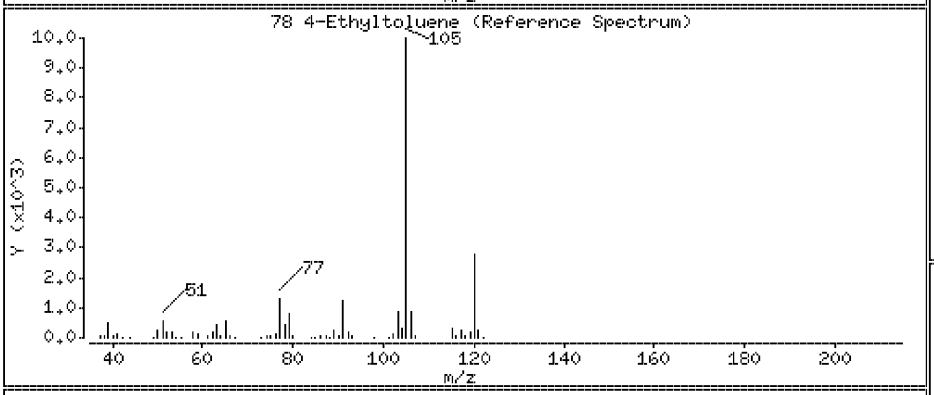
Column diameter: 0.32

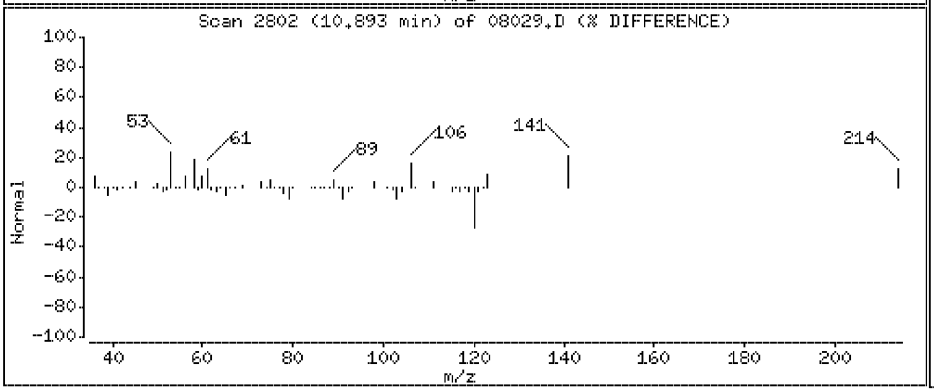
78 4-Ethyltoluene

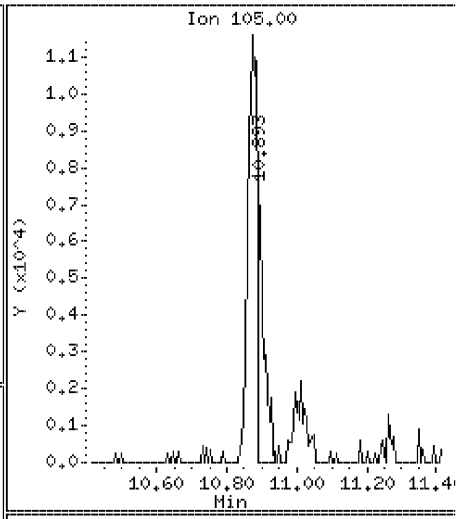
Concentration: 0.313 ppbv

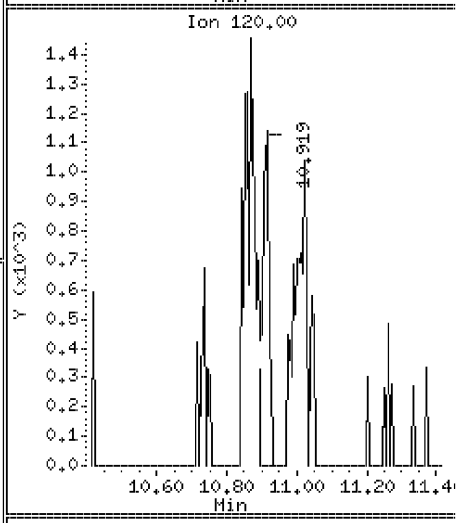


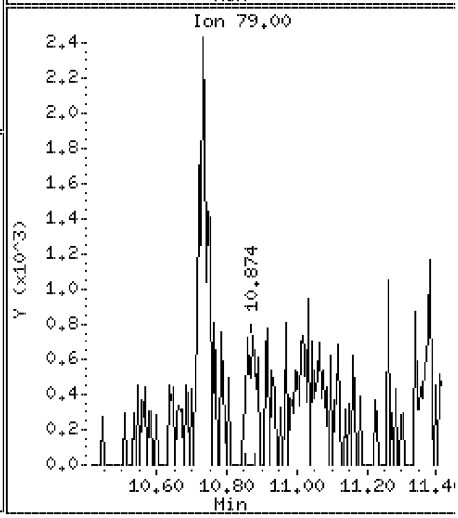












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

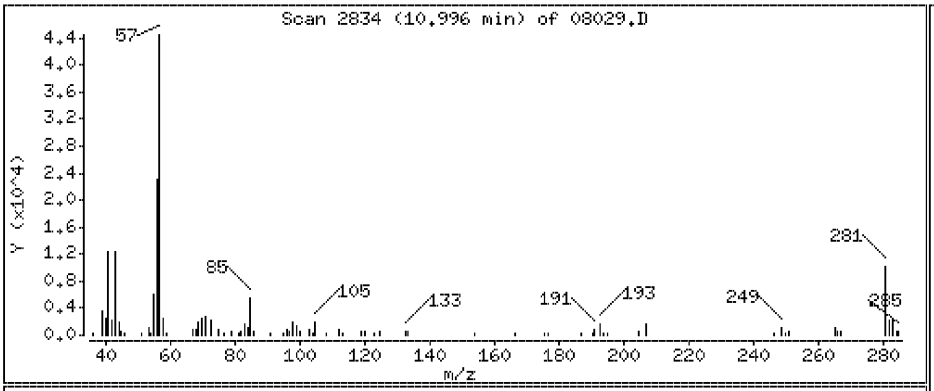
Operator: NCK

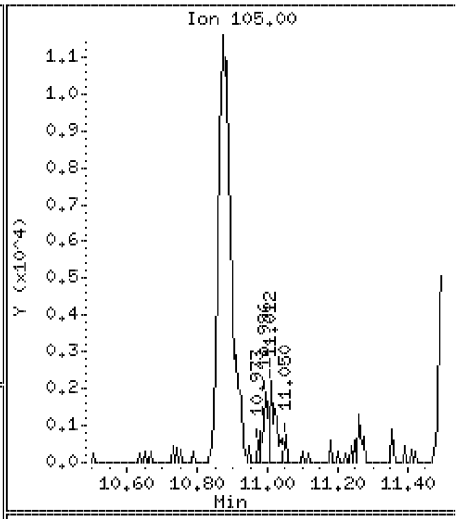
Column phase: J&W DB-5

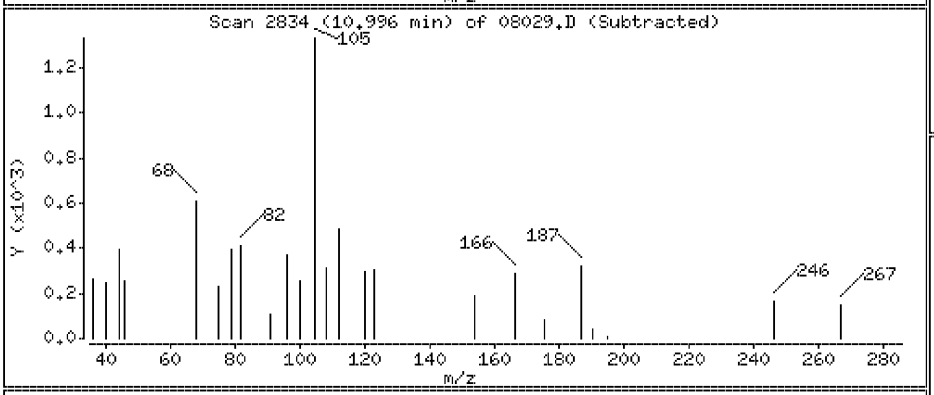
Column diameter: 0.32

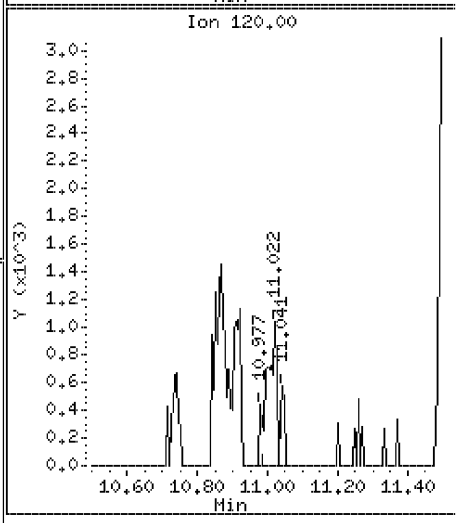
79 1,3,5-Trimethylbenzene

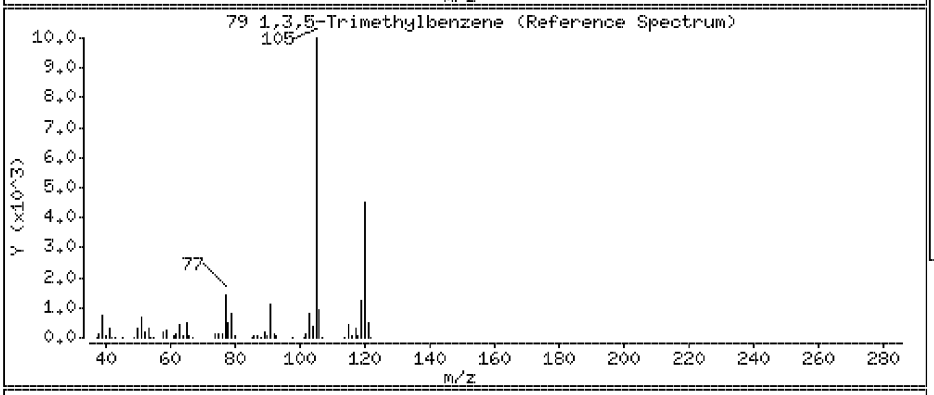
Concentration: 0.249 ppbv

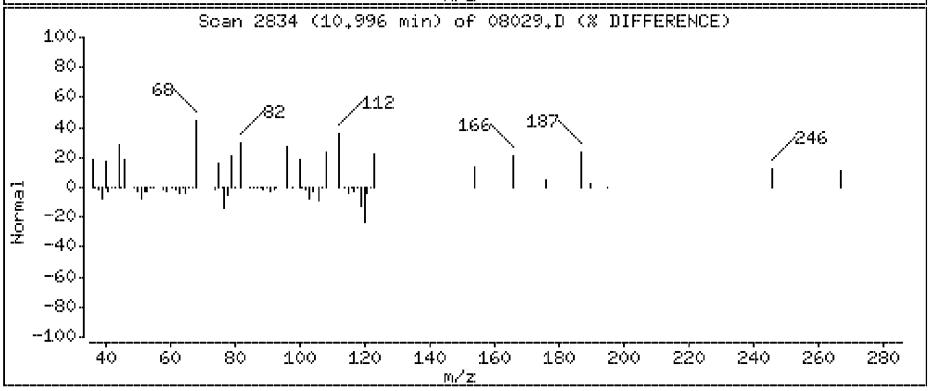












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

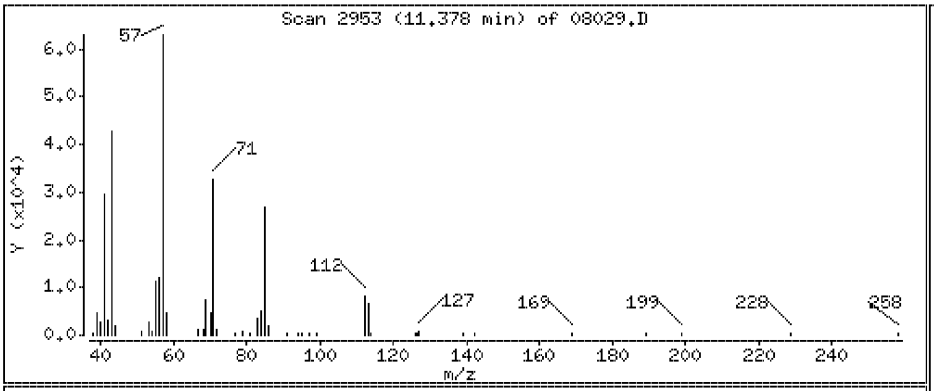
Operator: NCK

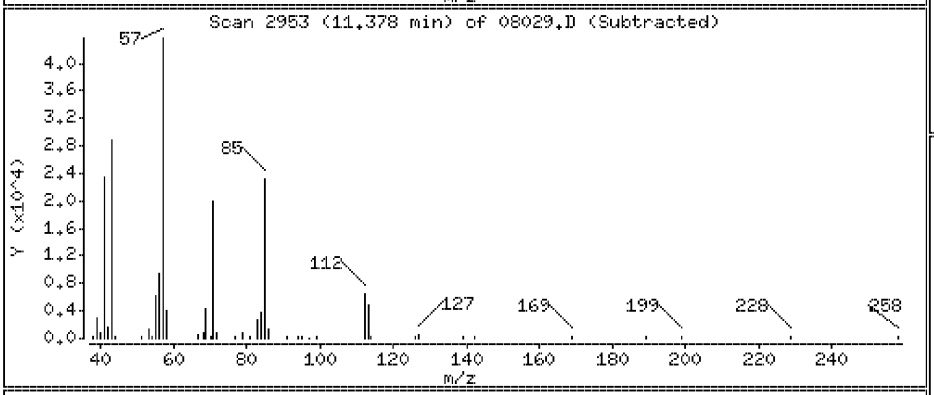
Column phase: J&W DB-5

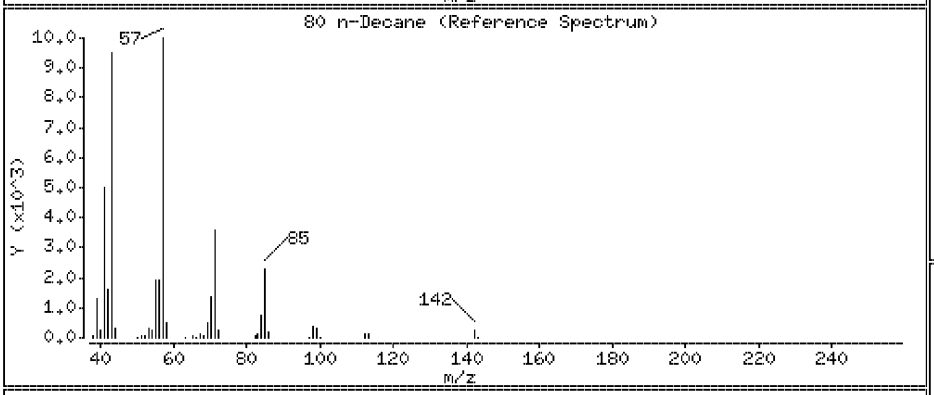
Column diameter: 0.32

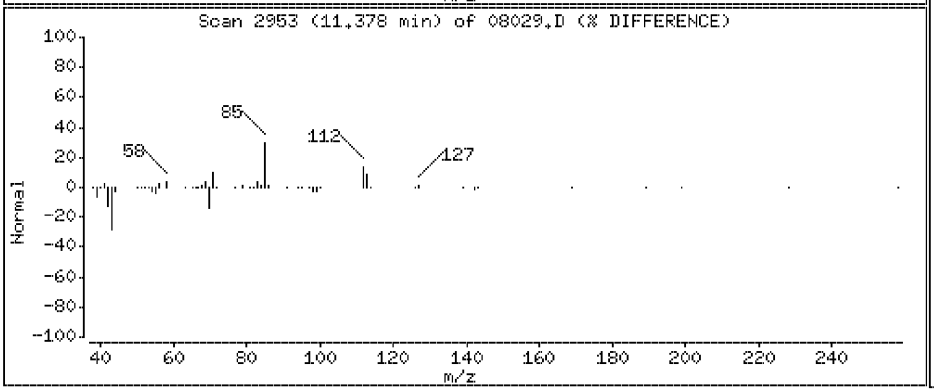
80 n-Decane

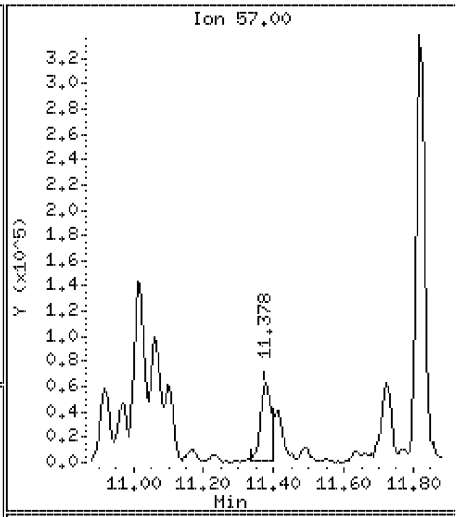
Concentration: 1.55 ppbv

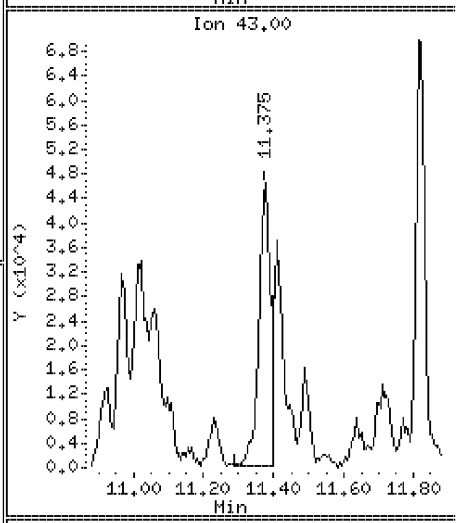


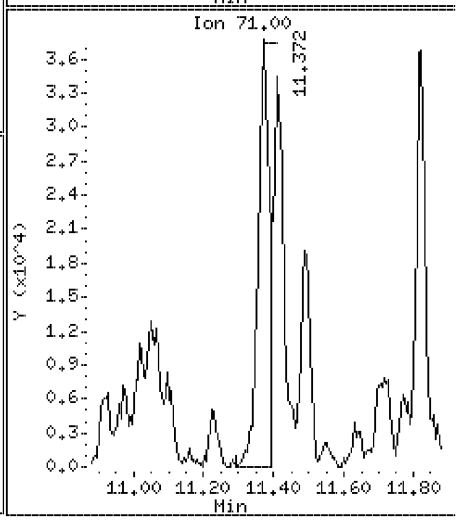












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

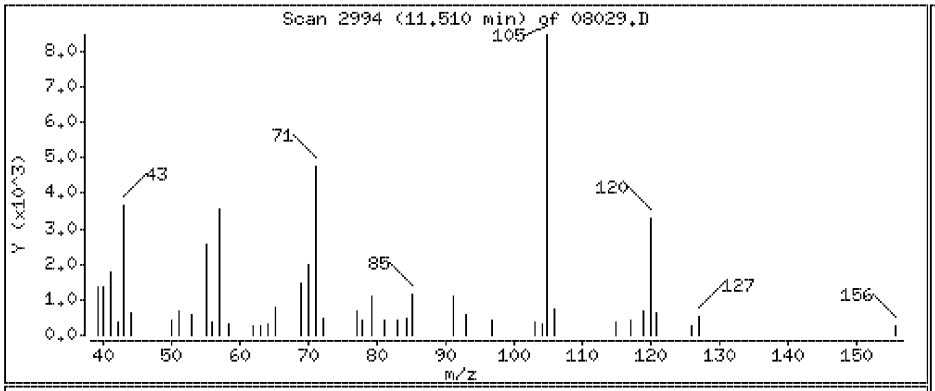
Operator: NCK

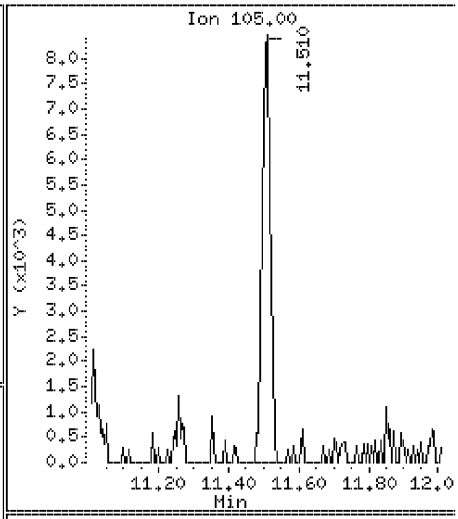
Column phase: J&W DB-5

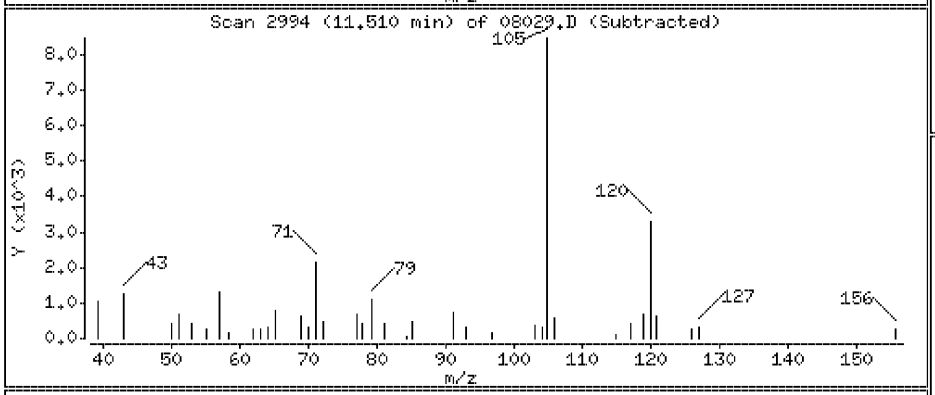
Column diameter: 0.32

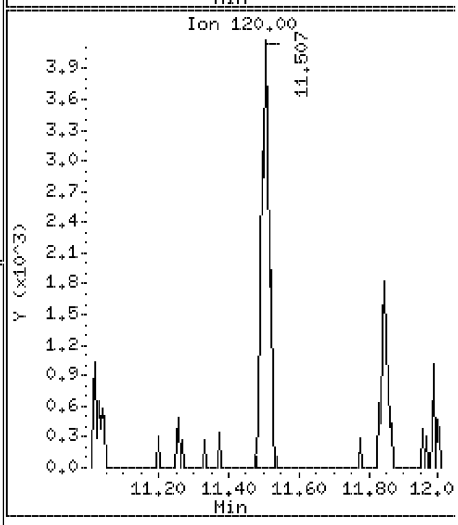
82 1,2,4-Trimethylbenzene

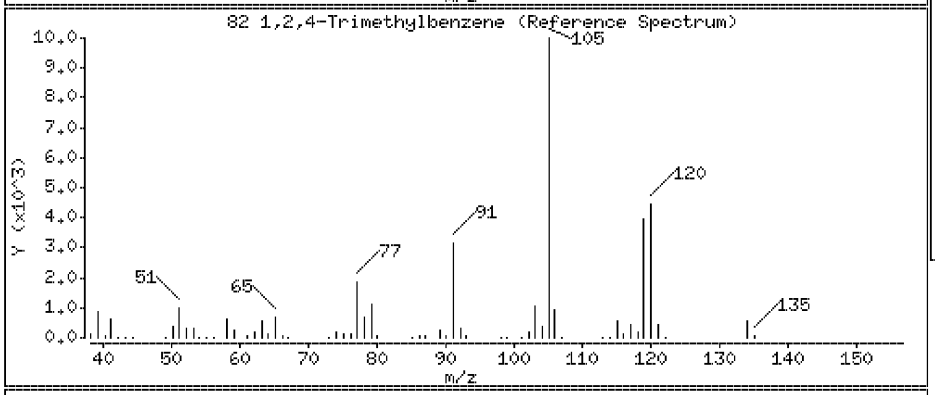
Concentration: 0.318 ppbv

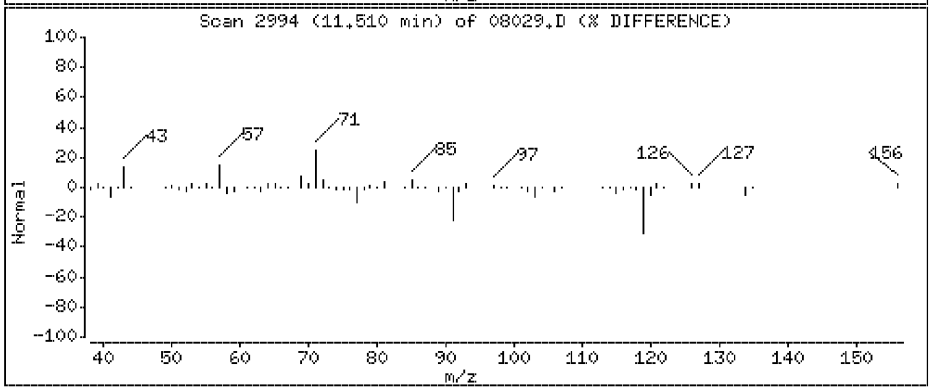












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

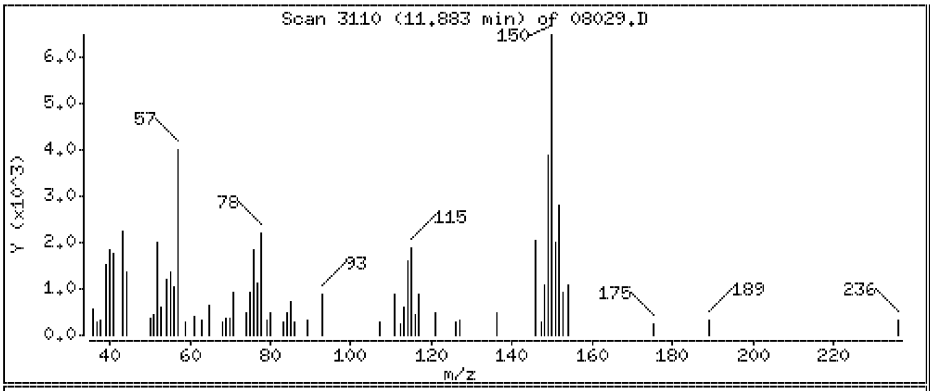
Operator: NCK

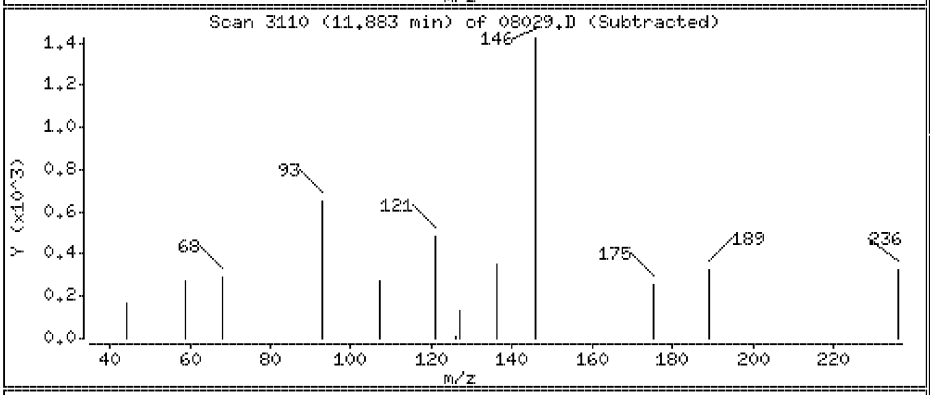
Column phase: J&W DB-5

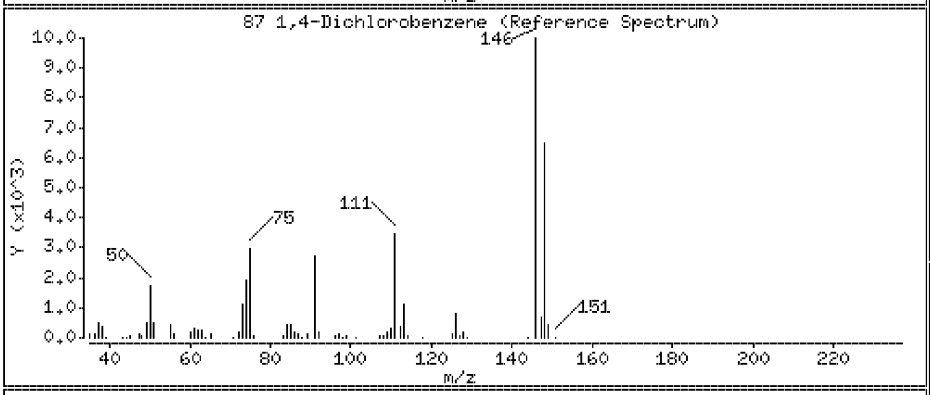
Column diameter: 0.32

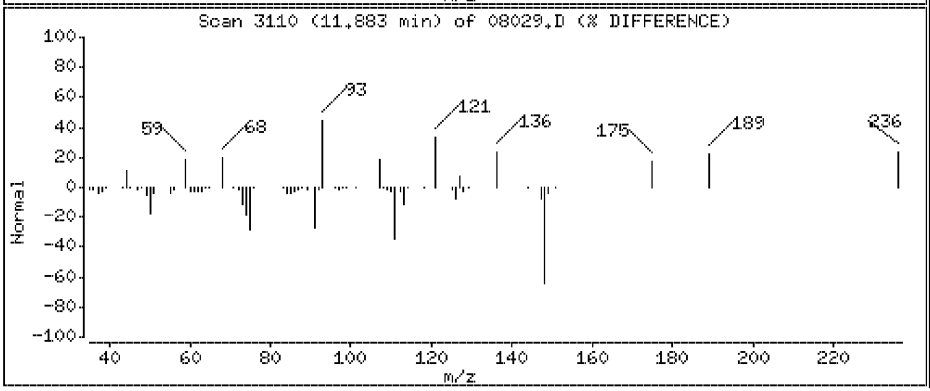
87 1,4-Dichlorobenzene

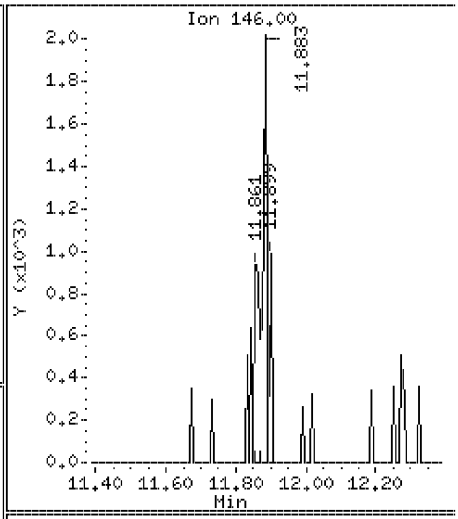
Concentration: 0.257 ppbv

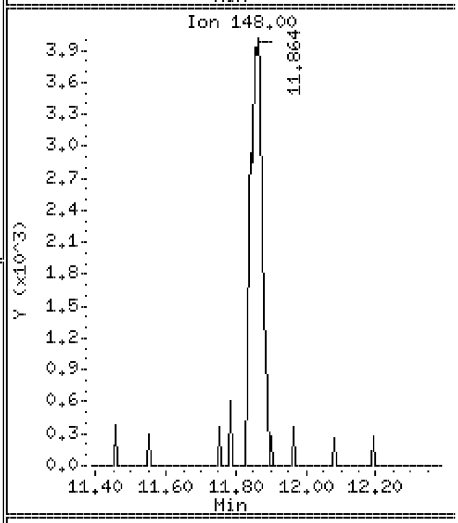


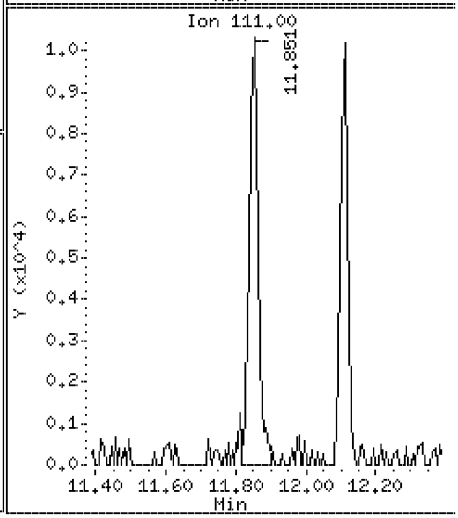












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

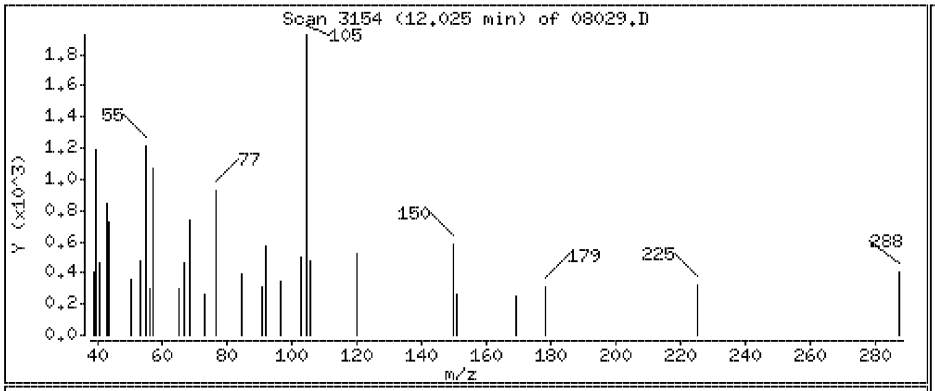
Operator: NCK

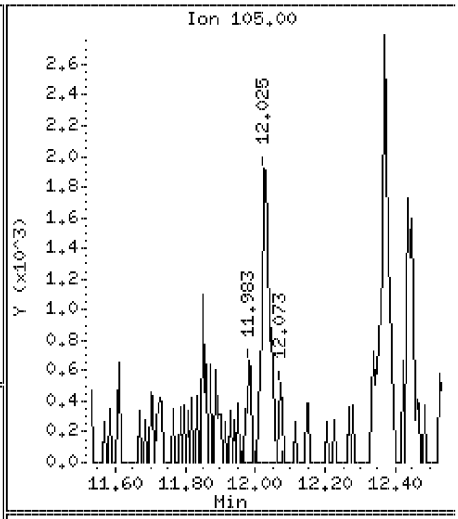
Column phase: J&W DB-5

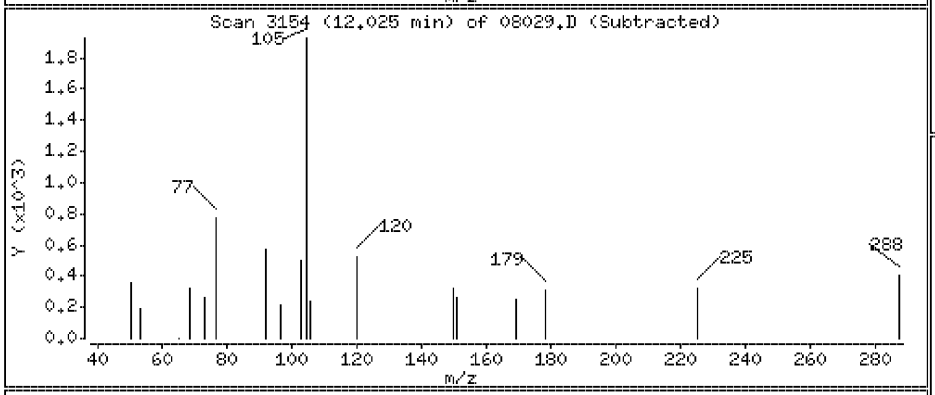
Column diameter: 0.32

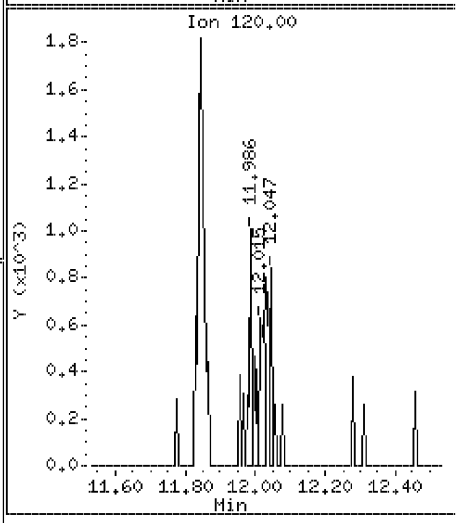
89 1,2,3-Trimethylbenzene

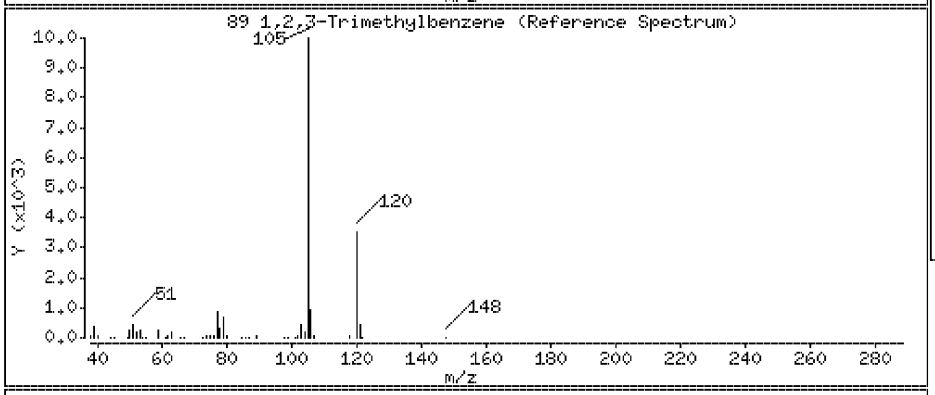
Concentration: 0.270 ppbv

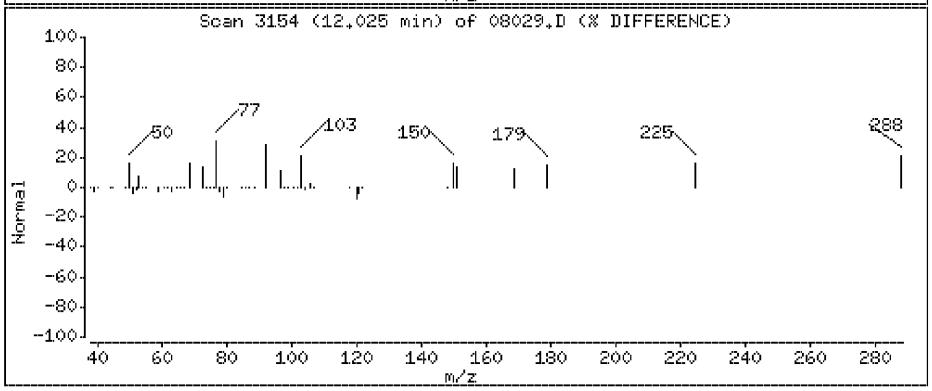












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08029.D

Date : 21-MAR-2017 23:06

Client ID:

Instrument: 10airB.i

Sample Info:

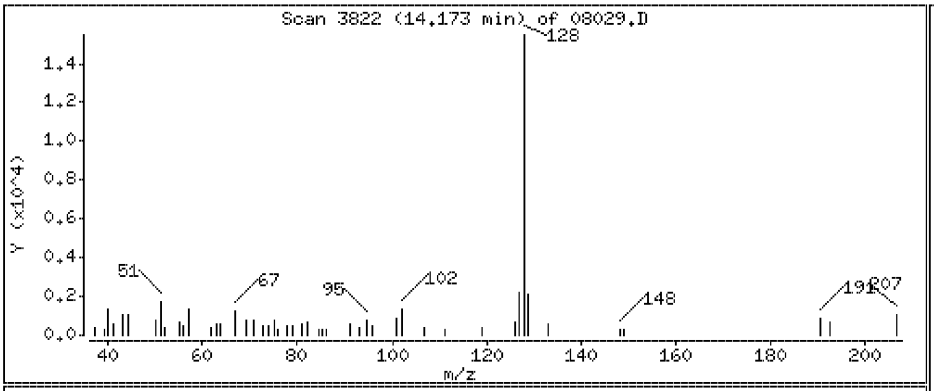
Operator: NCK

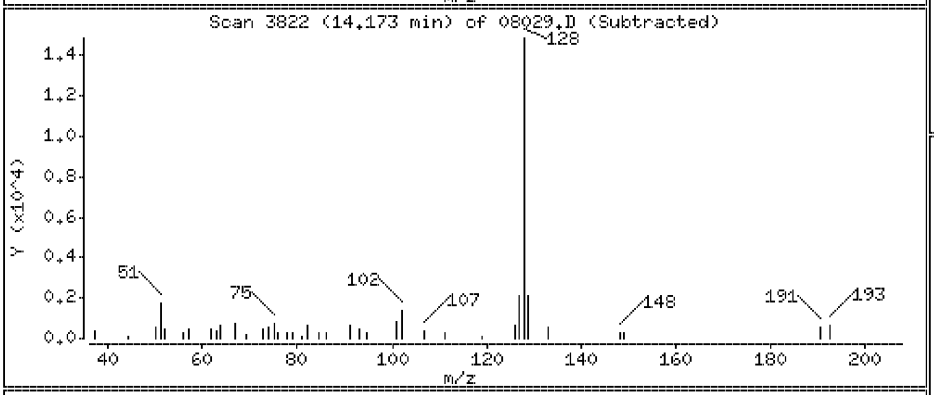
Column phase: J&W DB-5

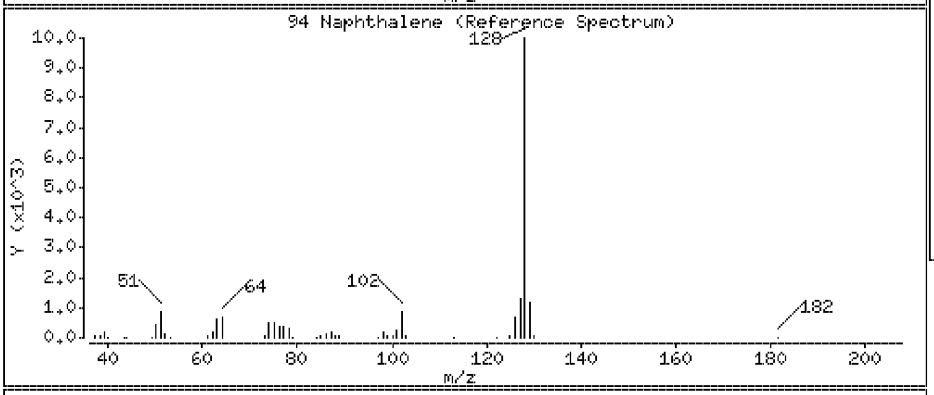
Column diameter: 0.32

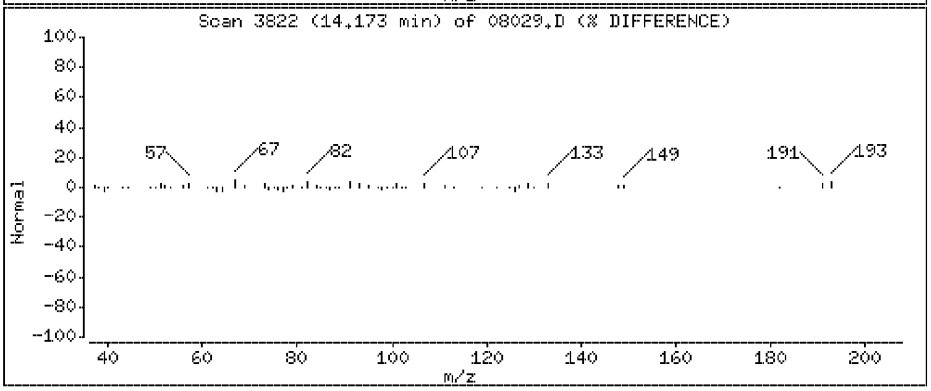
94 Naphthalene

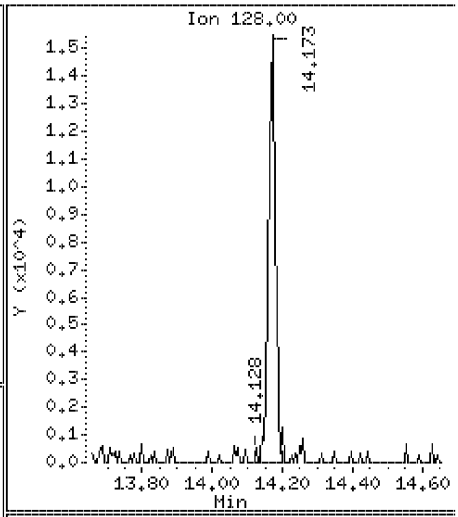
Concentration: 0.974 ppbv

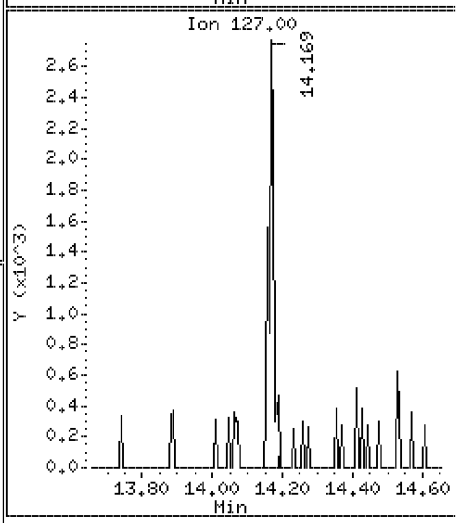






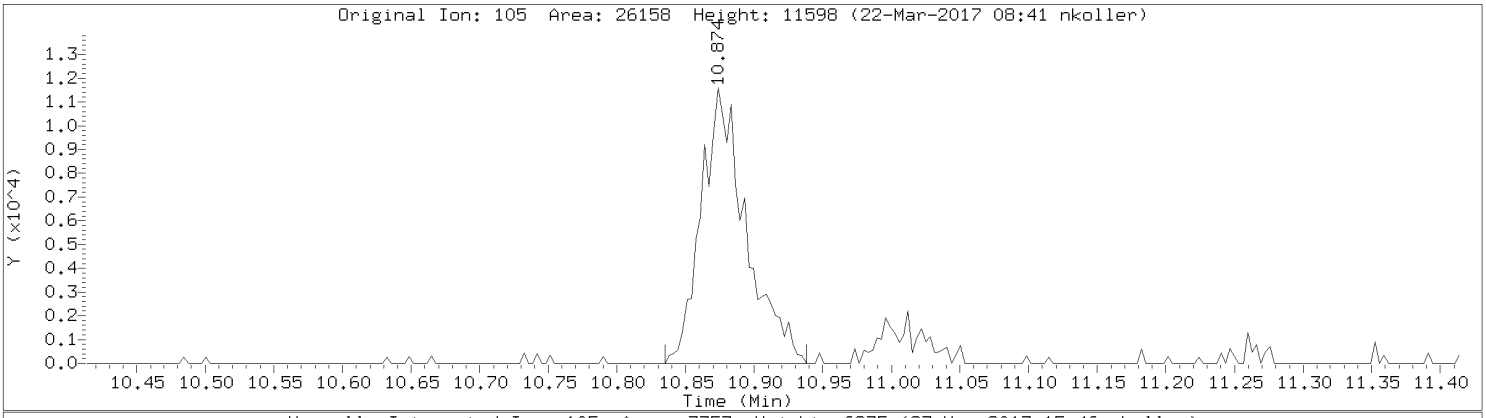


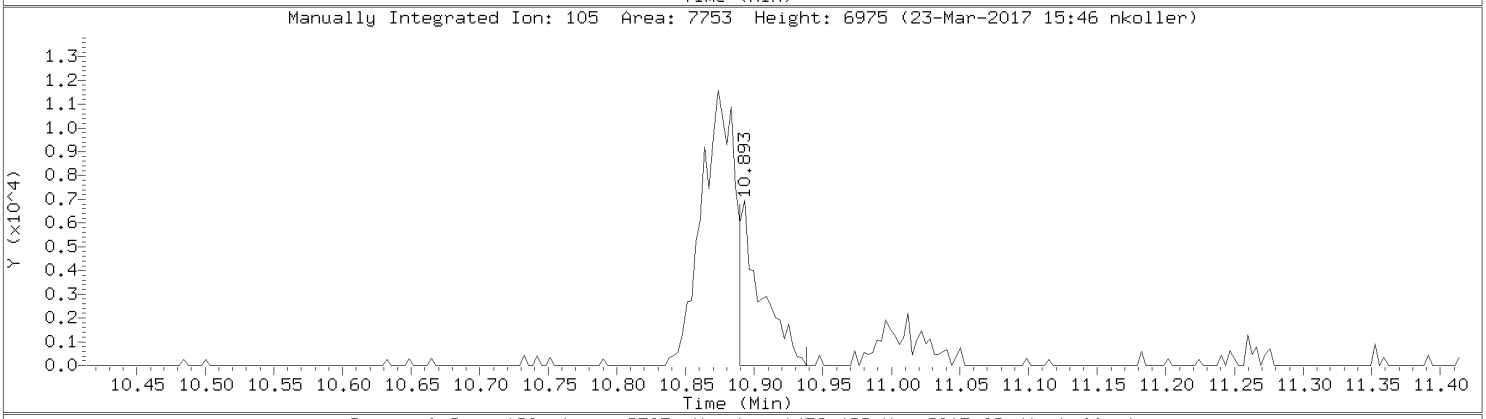


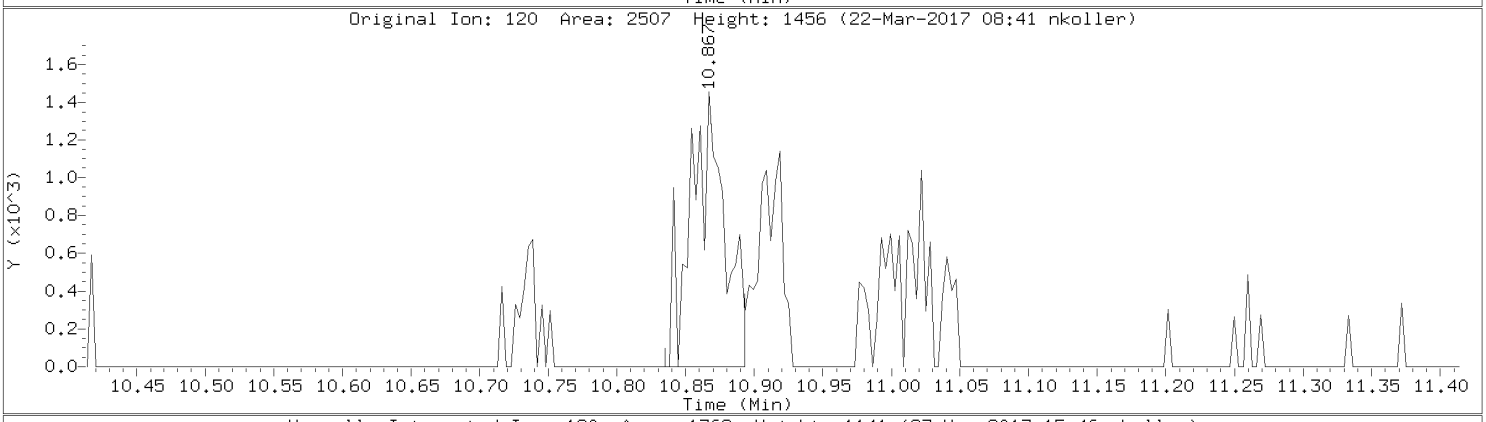


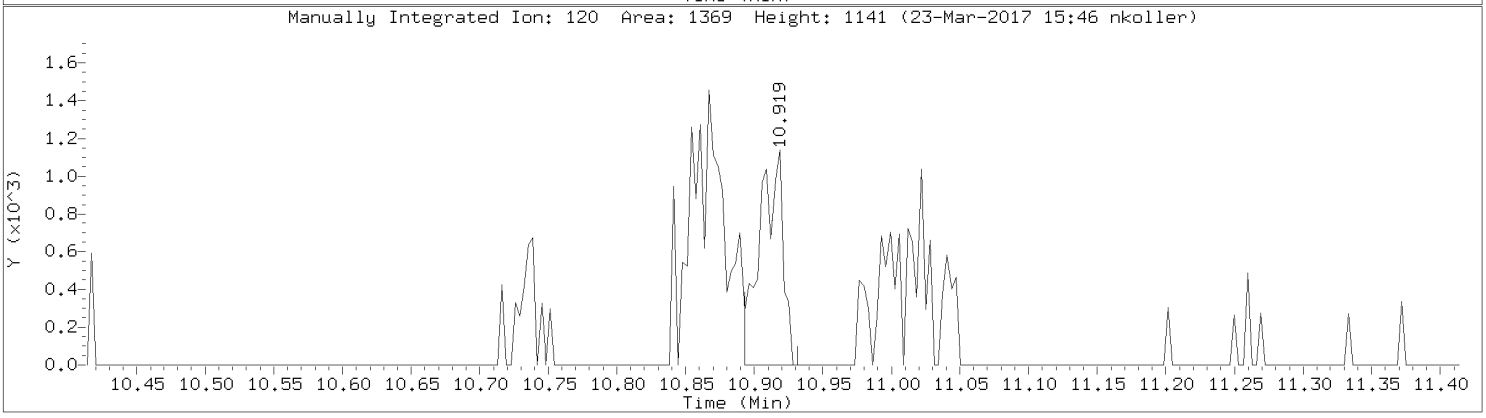
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08029.D
Injection Date: 21-MAR-2017 23:06
Instrument: 10airB.i
Lab Sample ID: 10381035017

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

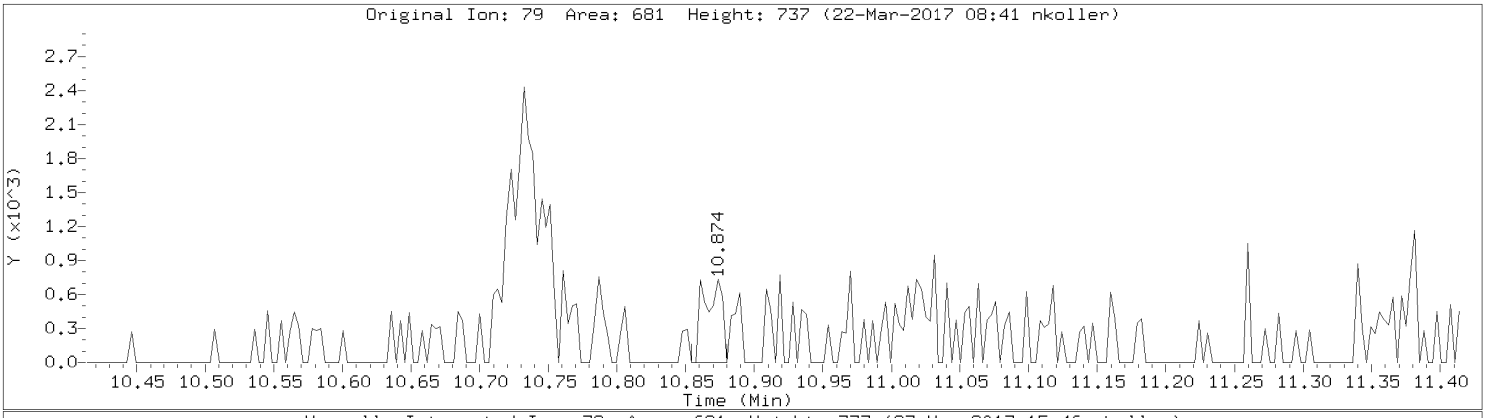


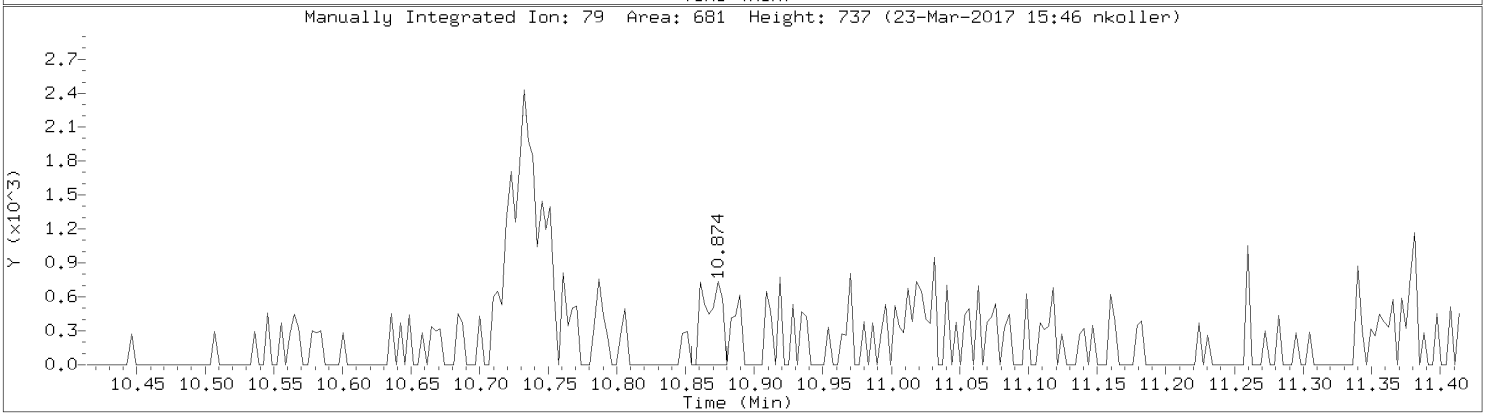






Data File: \\192.168.10.12\chem\10airB.i\032117.b/08029.D
Injection Date: 21-MAR-2017 23:06
Instrument: 10airB.i
Lab Sample ID: 10381035017





Data File: \\192.168.10.12\chem\10airB.i\032217.b\08139.D
Report Date: 23-Mar-2017 10:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032217.b\08139.D
Lab Smp Id: 10381035017
Inj Date : 23-MAR-2017 05:14
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Meth Date : 22-Mar-2017 11:20 10airB.i Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 39
Dil Factor: 33.60000
Integrator: HP RTE Compound Sublist: TCE_PCE.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	33.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$ 32 Hexane-d14(S)	66	4.487	4.494	(0.801)	1914144	9.36023	9.36
* 47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	5966432	10.0000	
51 Trichloroethene	130	5.976	5.989	(1.067)	445718	5.54737	186
$ 59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5206456	9.47620	9.48
66 Tetrachloroethene	166	7.982	7.986	(0.924)	113051	1.31762	44.3
* 67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	3782408	10.0000	
$ 85 1,4-dichlorobenzene-d4 (S)	150	11.847	11.851	(1.371)	1485621	8.13918	8.14

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08139.D
Report Date: 23-Mar-2017 10:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08139.D
Lab Smp Id: 10381035017
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 22-MAR-2017
Calibration Time: 09:05
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

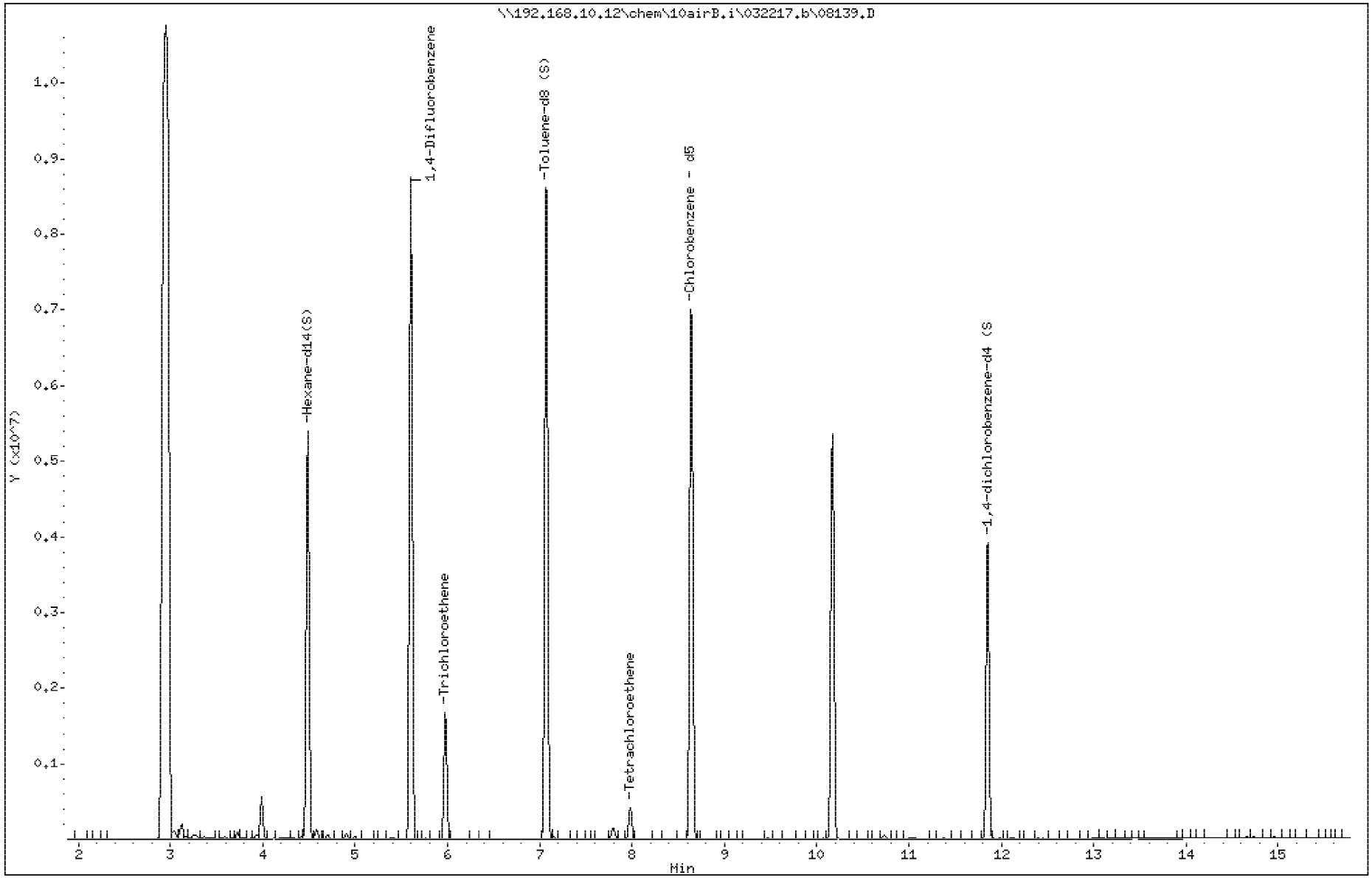
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	5966432	-21.92
67 Chlorobenzene - d	5205948	3123569	7288327	3782408	-27.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08139.D
Date : 23-MAR-2017 05:14
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08139.D

Date : 23-MAR-2017 05:14

Client ID:

Instrument: 10airB.i

Sample Info:

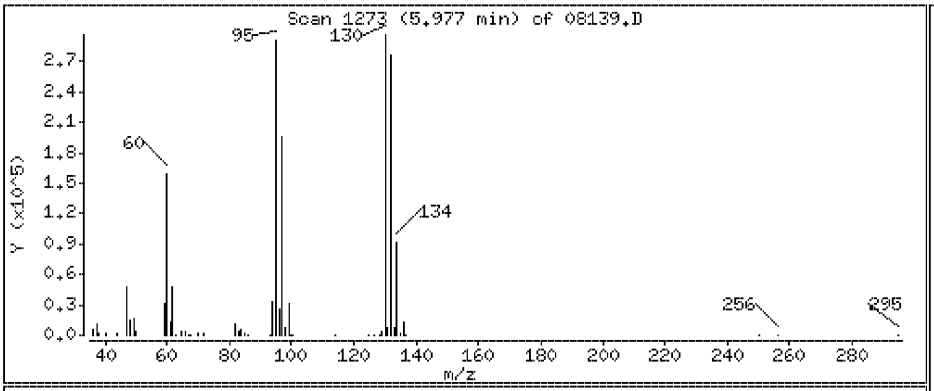
Operator: NCK

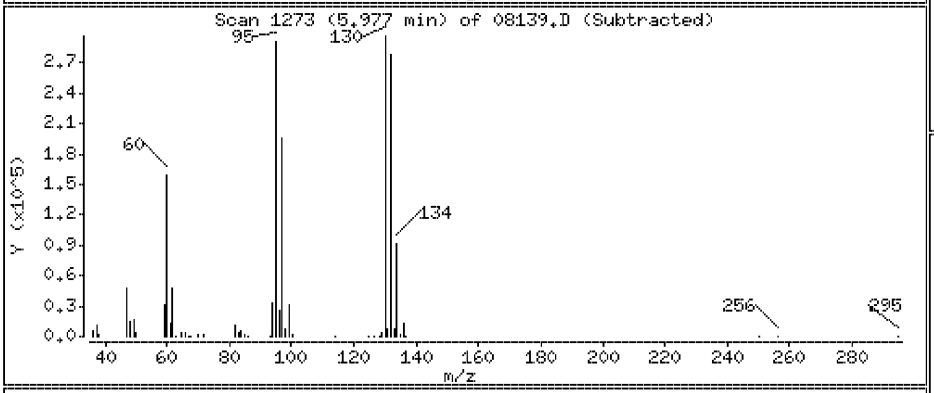
Column phase: J&W DB-5

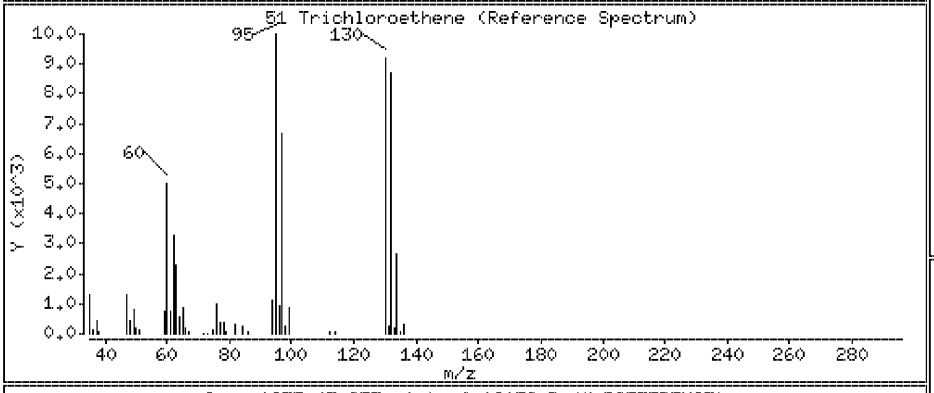
Column diameter: 0.32

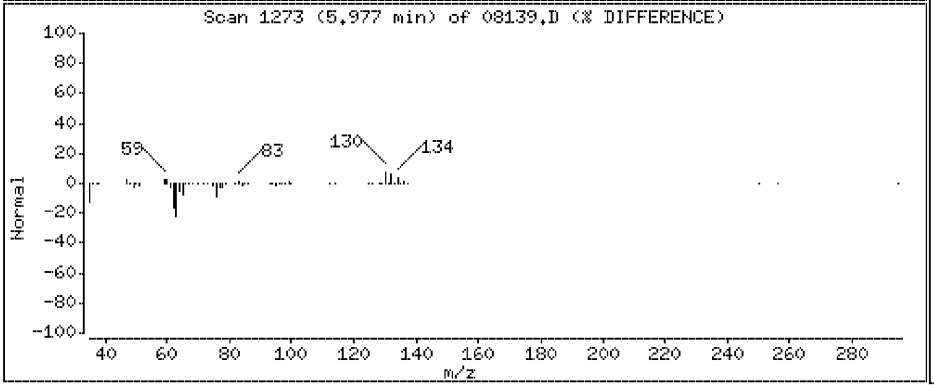
51 Trichloroethene

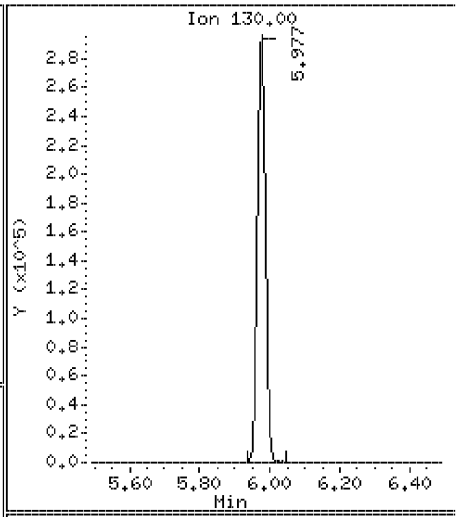
Concentration: 186 ppbv

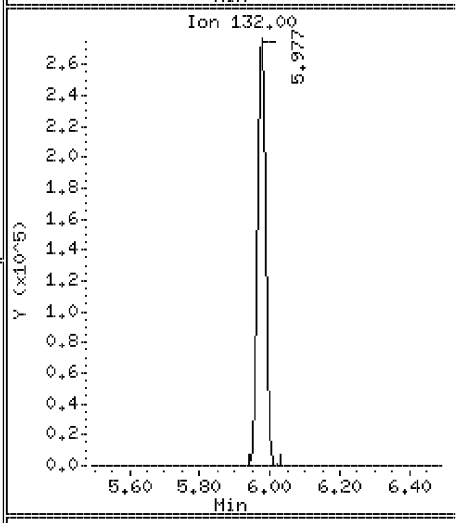


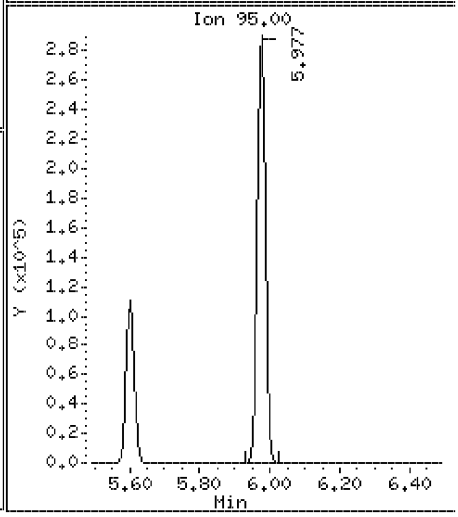












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08139.D

Date : 23-MAR-2017 05:14

Client ID:

Instrument: 10airB.i

Sample Info:

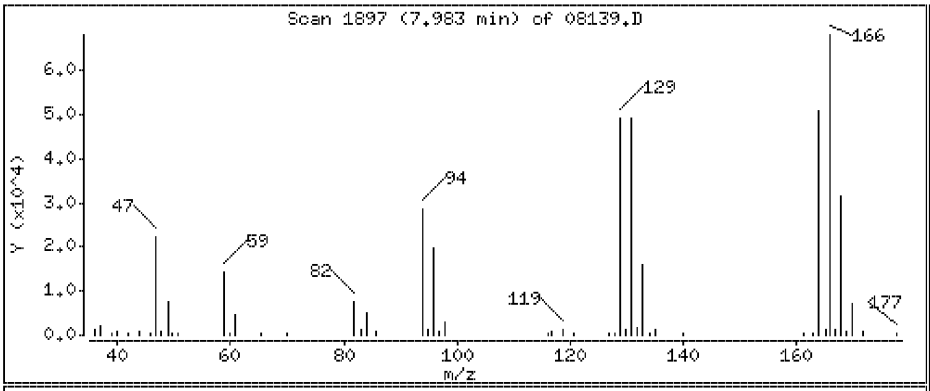
Operator: NCK

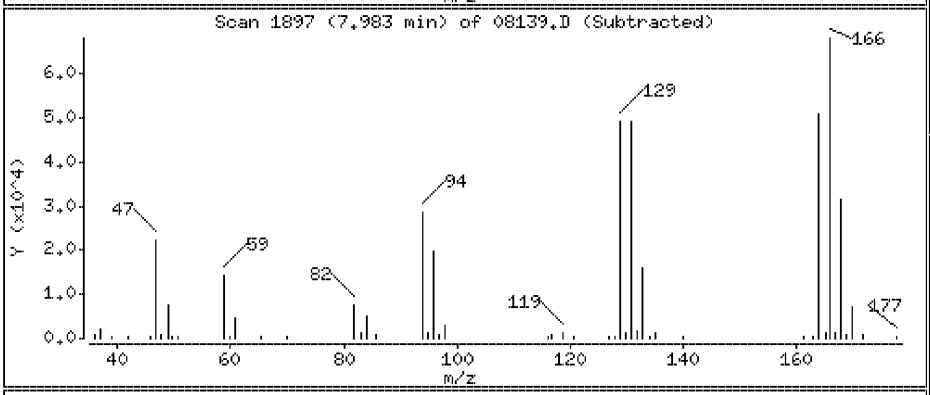
Column phase: J&W DB-5

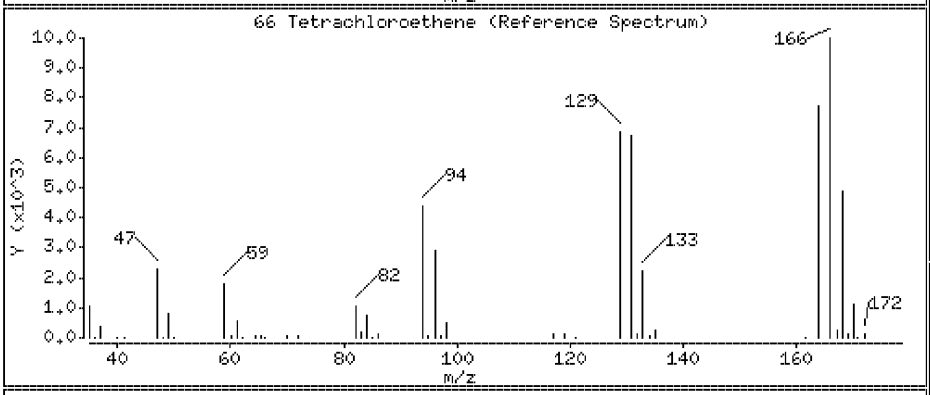
Column diameter: 0.32

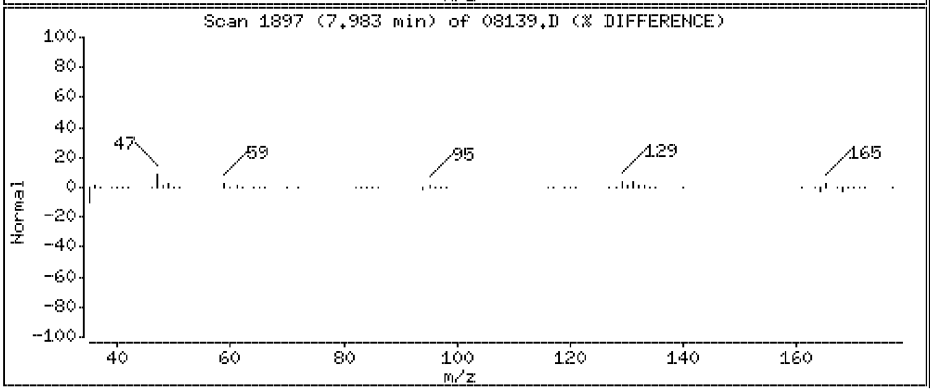
66 Tetrachloroethene

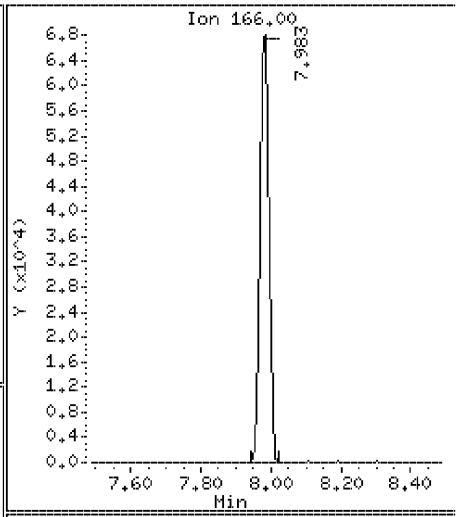
Concentration: 44.3 ppbv

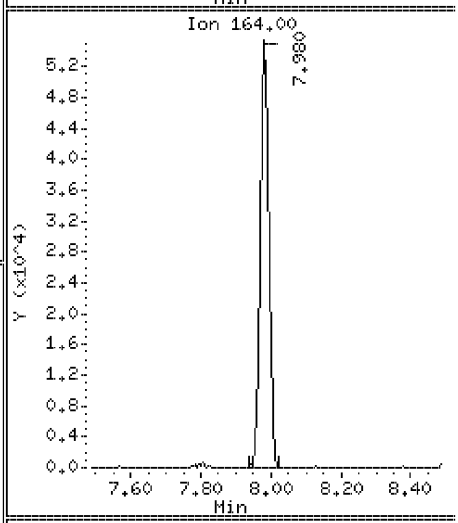


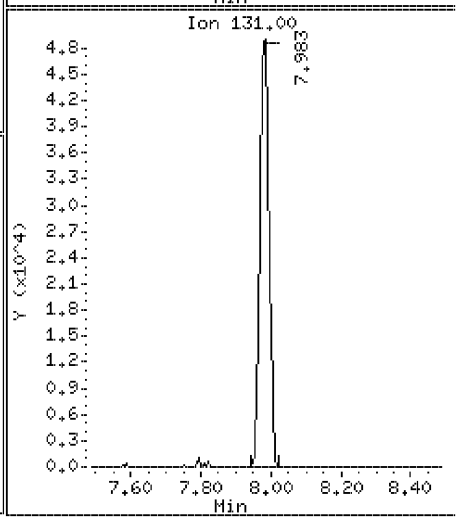












Data File: \\192.168.10.12\chem\10airB.i\032217.b/08139.D
Injection Date: 23-MAR-2017 05:14
Instrument: 10airB.i
Lab Sample ID: 10381035017
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_56_20170302 **Lab ID: 10381035017** Collected: 03/02/17 13:06 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.40**	ug/m3	4.2	0.40	1.68		03/21/17 23:06	67-63-0	
Styrene	**1.0J**	ug/m3	1.5	0.32	1.68		03/21/17 23:06	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 23:06	79-34-5	
Tetrachloroethene	**506**	ug/m3	1.2	0.47	1.68		03/21/17 23:06	127-18-4	
Tetrachloroethene	**305**	ug/m3	23.2	9.3	33.6		03/23/17 05:14	127-18-4	
Toluene	**5.5**	ug/m3	1.3	0.26	1.68		03/21/17 23:06	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 23:06	120-82-1	
1,1,1-Trichloroethane	**1.1J**	ug/m3	1.9	0.41	1.68		03/21/17 23:06	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 23:06	79-00-5	
Trichloroethene	**1200**	ug/m3	0.92	0.46	1.68		03/21/17 23:06	79-01-6	
Trichloroethene	**1020**	ug/m3	18.5	9.3	33.6		03/23/17 05:14	79-01-6	
Trichlorofluoromethane	**10.9**	ug/m3	1.9	0.22	1.68		03/21/17 23:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	**64.7**	ug/m3	2.7	0.51	1.68		03/21/17 23:06	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	1.7	0.21	1.68		03/21/17 23:06	95-63-6	
1,3,5-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.31	1.68		03/21/17 23:06	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 23:06	75-01-4	
m&p-Xylene	**2.2J**	ug/m3	3.0	1.3	1.68		03/21/17 23:06	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/21/17 23:06	95-47-6	

Sample: VP-106_72_20170302 **Lab ID: 10381035018** Collected: 03/02/17 13:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**44.9**	ug/m3	4.1	1.4	1.68		03/21/17 23:39	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 23:39	107-05-1	
Benzene	**1.1**	ug/m3	0.55	0.20	1.68		03/21/17 23:39	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 23:39	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 23:39	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 23:39	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 23:39	106-99-0	
2-Butanone (MEK)	**3.8J**	ug/m3	5.0	0.38	1.68		03/21/17 23:39	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/21/17 23:39	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 23:39	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 23:39	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/21/17 23:39	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 23:39	75-00-3	
Chloroform	**3.2**	ug/m3	0.83	0.32	1.68		03/21/17 23:39	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 23:39	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 23:39	76-15-3	
Cyclohexane	**0.85J**	ug/m3	1.2	0.53	1.68		03/21/17 23:39	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 23:39	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 23:39	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 23:39	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_72_20170302 **Lab ID: 10381035018** Collected: 03/02/17 13:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 23:39	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 23:39	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/21/17 23:39	106-46-7	
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/21/17 23:39	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 23:39	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 23:39	107-06-2	
1,1-Dichloroethene	**2.7**	ug/m3	1.4	0.40	1.68		03/21/17 23:39	75-35-4	
cis-1,2-Dichloroethene	**69.1**	ug/m3	1.4	0.41	1.68		03/21/17 23:39	156-59-2	
trans-1,2-Dichloroethene	**3.3**	ug/m3	1.4	0.65	1.68		03/21/17 23:39	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 23:39	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 23:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 23:39	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 23:39	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 23:39	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 23:39	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 23:39	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.7	0.32	1.68		03/21/17 23:39	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 23:39	87-68-3	
n-Hexane	**9.8**	ug/m3	1.2	0.60	1.68		03/21/17 23:39	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 23:39	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 23:39	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 23:39	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 23:39	108-87-2	
Methylene Chloride	**71.4**	ug/m3	5.9	0.91	1.68		03/21/17 23:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.8J**	ug/m3	7.0	0.36	1.68		03/21/17 23:39	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 23:39	1634-04-4	
2-Propanol	**10.0**	ug/m3	4.2	0.40	1.68		03/21/17 23:39	67-63-0	
Styrene	**1.3J**	ug/m3	1.5	0.32	1.68		03/21/17 23:39	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 23:39	79-34-5	
Tetrachloroethene	**523**	ug/m3	1.2	0.47	1.68		03/21/17 23:39	127-18-4	
Tetrachloroethene	**617**	ug/m3	29.7	12.0	43.15		03/23/17 05:42	127-18-4	
Toluene	**27.5**	ug/m3	1.3	0.26	1.68		03/21/17 23:39	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 23:39	120-82-1	
1,1,1-Trichloroethane	**1.5J**	ug/m3	1.9	0.41	1.68		03/21/17 23:39	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 23:39	79-00-5	
Trichloroethene	**1270**	ug/m3	0.92	0.46	1.68		03/21/17 23:39	79-01-6	
Trichloroethene	**2230**	ug/m3	23.7	11.9	43.15		03/23/17 05:42	79-01-6	
Trichlorofluoromethane	**9.6**	ug/m3	1.9	0.22	1.68		03/21/17 23:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	**78.9**	ug/m3	2.7	0.51	1.68		03/21/17 23:39	76-13-1	
1,2,4-Trimethylbenzene	**1.7**	ug/m3	1.7	0.21	1.68		03/21/17 23:39	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.31	1.68		03/21/17 23:39	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 23:39	75-01-4	
m&p-Xylene	**2.7J**	ug/m3	3.0	1.3	1.68		03/21/17 23:39	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/21/17 23:39	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D
Report Date: 23-Mar-2017 15:47

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08030.D
Lab Smp Id: 10381035018
Inj Date : 21-MAR-2017 23:39
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 30
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.542	3.545	(0.631)	185648	8.02082	13.5	(M)
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.584	3.603	(0.639)	286681	4.45908	7.49	(Q)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.658	3.677	(0.652)	125151	1.00037	1.68	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.722	3.722	(0.664)	1105698	11.0646	18.6	
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	259639	2.38717	4.01	(M)
20	1,1-Dichloroethene	61	3.893	3.912	(0.694)	35433	0.39166	0.658	(M)
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.947	3.951	(0.704)	574295	6.02485	10.1	
23	Methyl Acetate	43	3.957	3.957	(0.705)	28701	0.18980	0.319	(Q)
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D
Report Date: 23-Mar-2017 15:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	3.989	4.005	(0.711)	988455	12.0316	20.2	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.259	4.275	(0.759)	21123	0.48084	0.808(Q)	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.799)	2020239	9.53372	9.53	
	33 Methyl Ethyl Ketone	72	4.561	4.555	(0.813)	17501	0.75944	1.28(Q)	
	34 n-Hexane	57	4.581	4.587	(0.817)	173307	1.63478	2.75(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 Ethyl Acetate	43	4.725	4.716	(0.842)	390598	2.61890	4.40(Q)	
	37 cis-1,2-Dichloroethene	96	4.706	4.725	(0.839)	550814	10.2099	17.2(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.815	4.841	(0.858)	43601	0.38691	0.650	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.217	5.233	(0.930)	20705	0.15640	0.263	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	5.458	5.465	(0.973)	35213	0.19773	0.332	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.478	5.487	(0.977)	15588	0.14514	0.244(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.610	5.613	(1.000)	6182541	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.889	5.889	(1.050)	26039	0.20743	0.348(M)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.986	5.986	(1.067)	11503155	138.163	232(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	6.539	6.529	(1.166)	66595	0.40253	0.676	
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	5406809	9.49687	9.50	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.153	7.153	(1.275)	883155	4.27048	7.17	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.989	7.986	(0.925)	4019251	45.1211	75.8(A)	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	3926899	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.076	9.082	(1.051)	43113	0.36709	0.617	
	71 n-Nonane	43	9.468	9.468	(1.096)	35463	0.29315	0.492	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.500	9.507	(1.100)	7383	0.17650	0.297	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	10.905	10.915	(1.262)	5549	0.17933	0.301(M)	

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D
Report Date: 23-Mar-2017 15:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.273)	6302	0.16747	0.281	
80	n-Decane	57	11.381	11.381	(2.029)	530515	4.28305	7.20(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	15296	0.20172	0.339	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	1851948	9.77282	9.77	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.031	12.034	(1.393)	4868	0.17127	0.288	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	18199	0.57441	0.965	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D
Report Date: 23-Mar-2017 15:47

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08030.D
Lab Smp Id: 10381035018
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

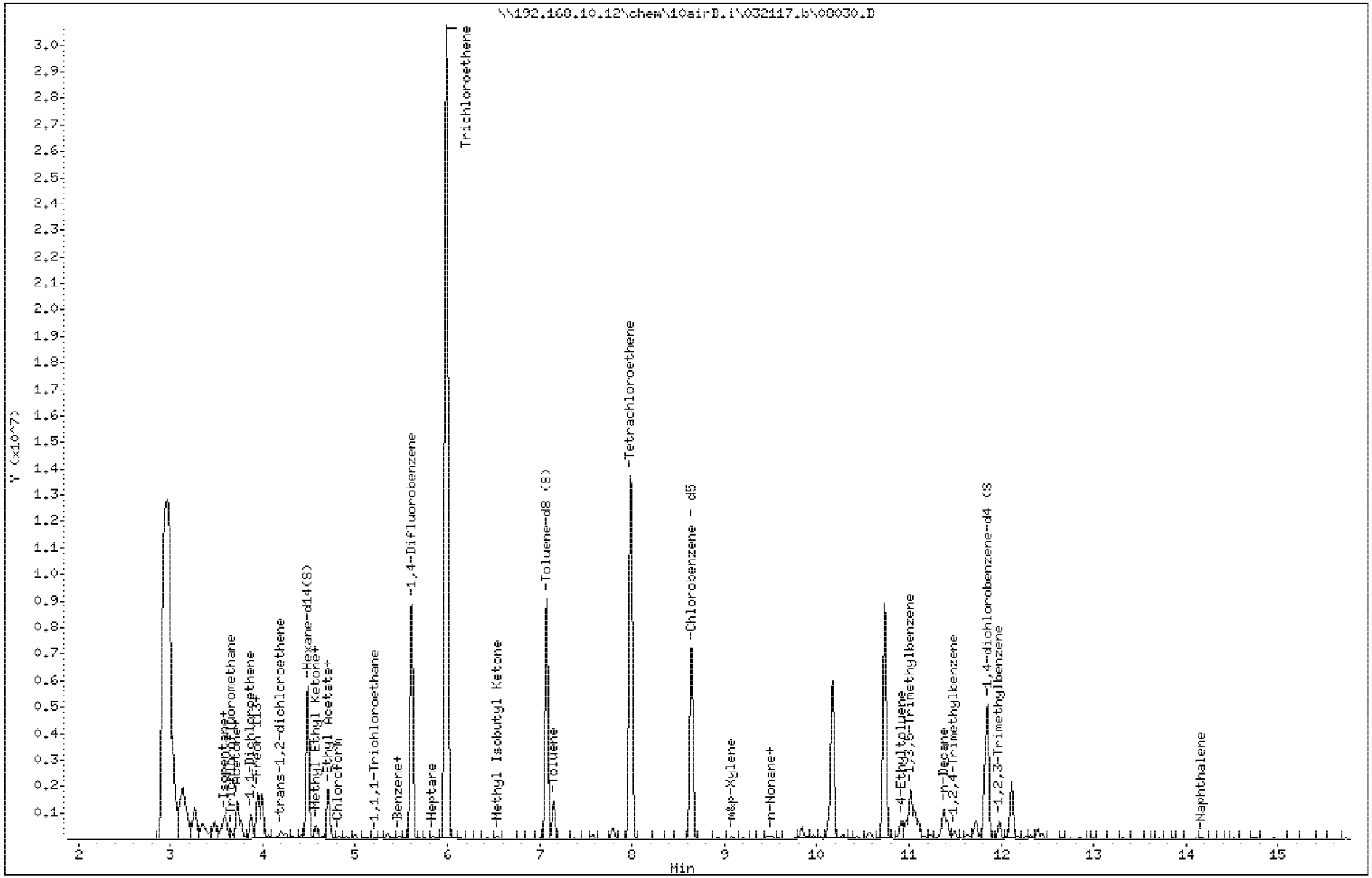
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6182541	-19.09
67 Chlorobenzene - d	5205948	3123569	7288327	3926899	-24.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D
Date : 21-MAR-2017 23:39
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

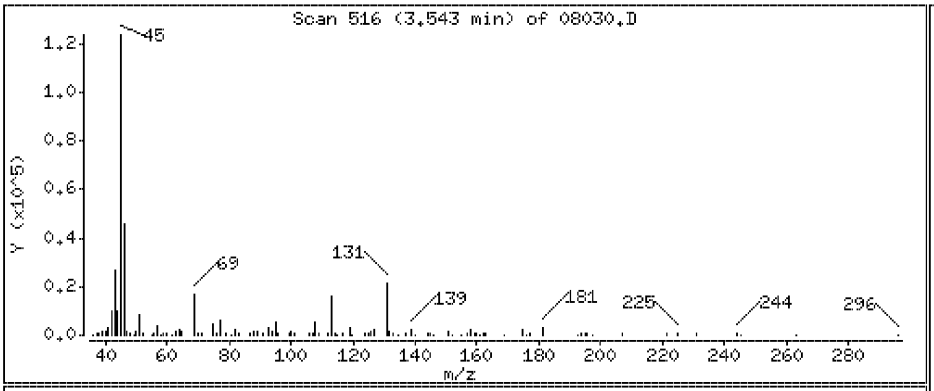
Operator: NCK

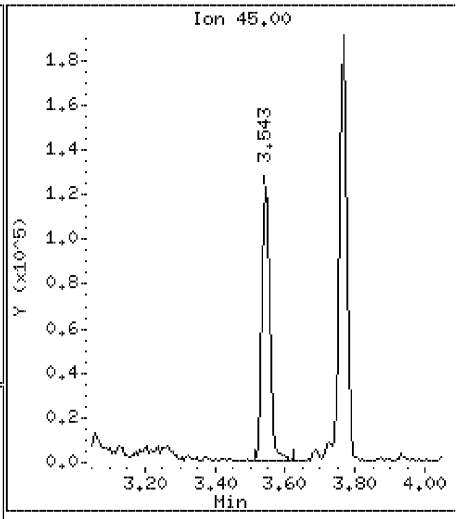
Column phase: J&W DB-5

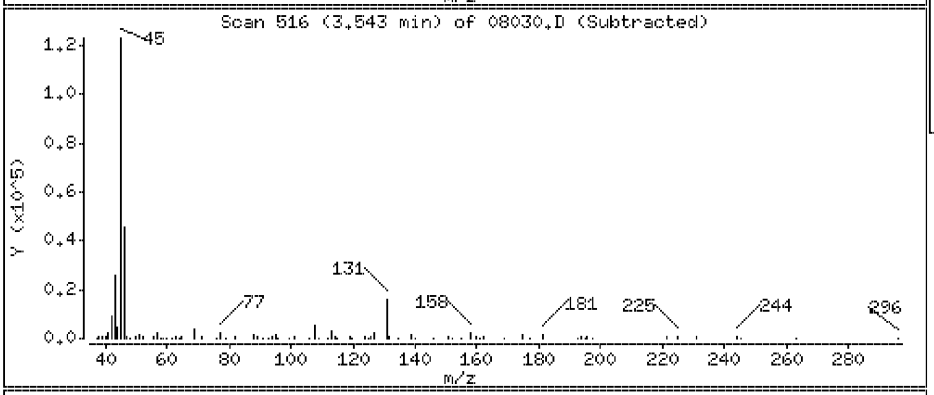
Column diameter: 0.32

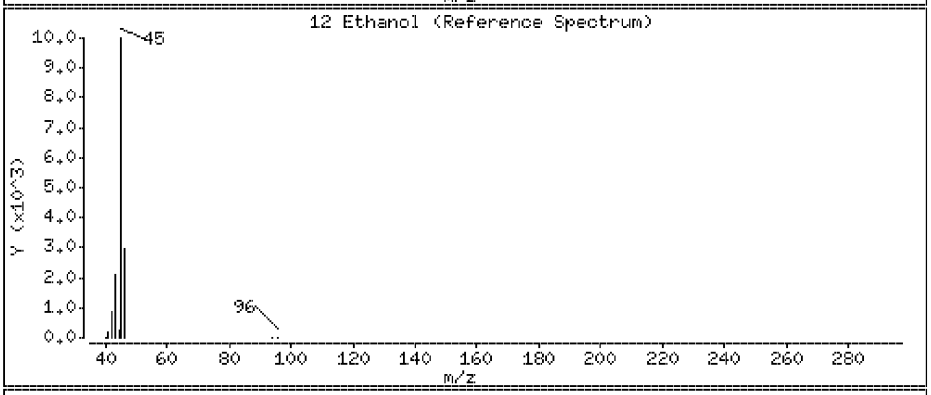
12 Ethanol

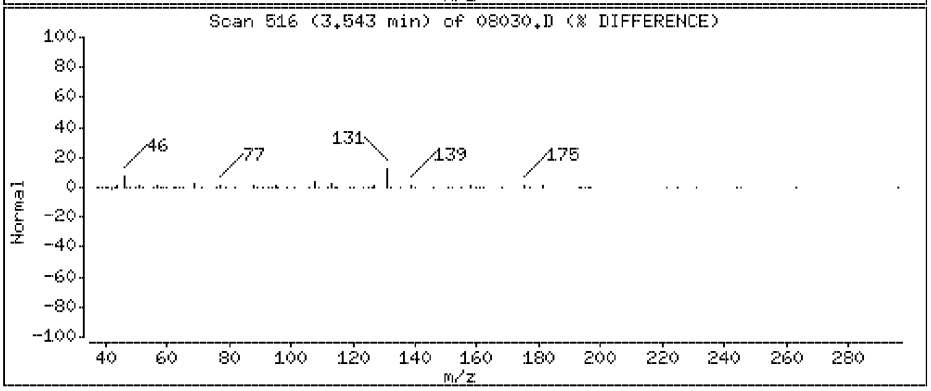
Concentration: 13.5 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

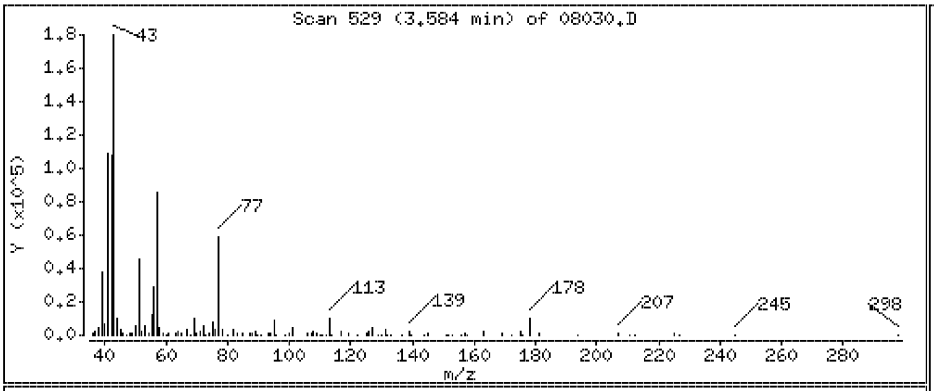
Operator: NCK

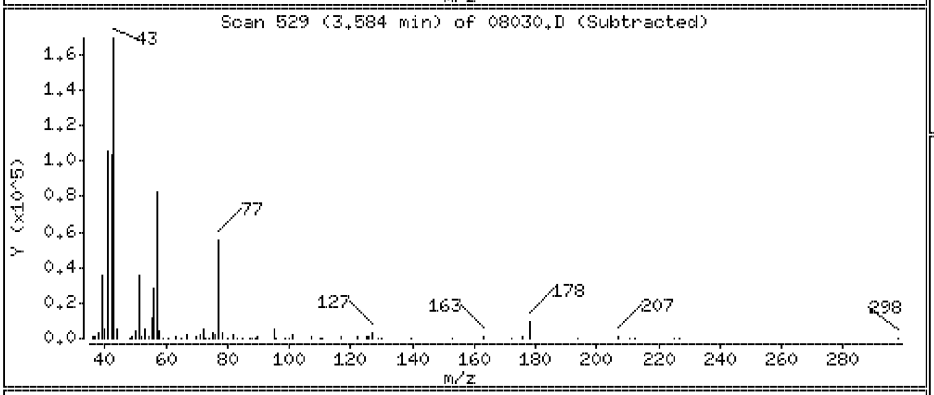
Column phase: J&W DB-5

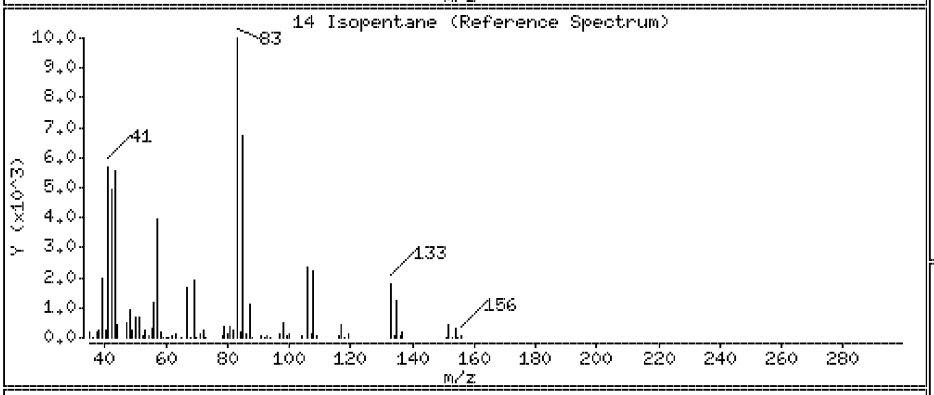
Column diameter: 0.32

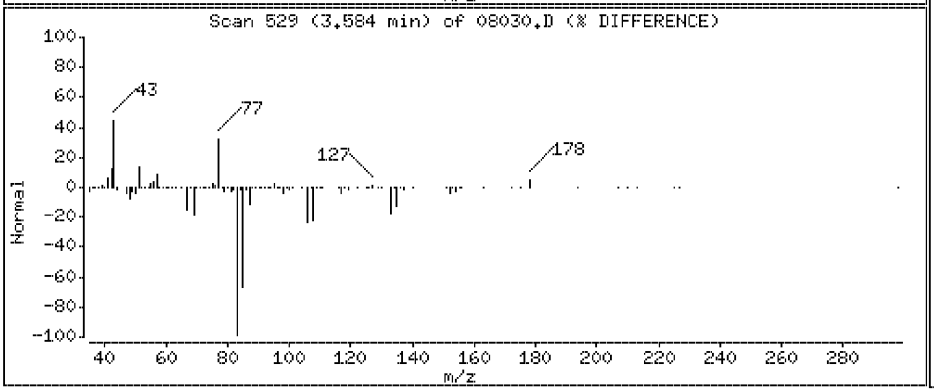
14 Isopentane

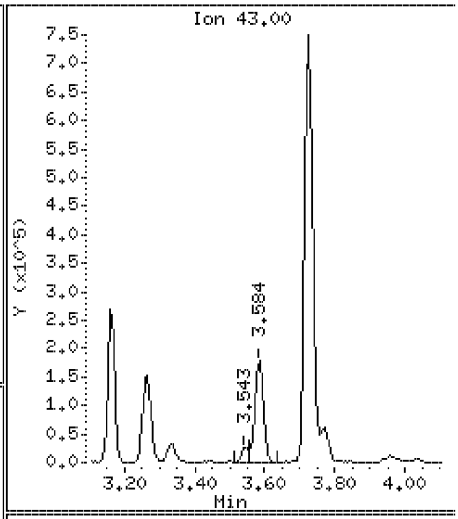
Concentration: 7.49 ppbv

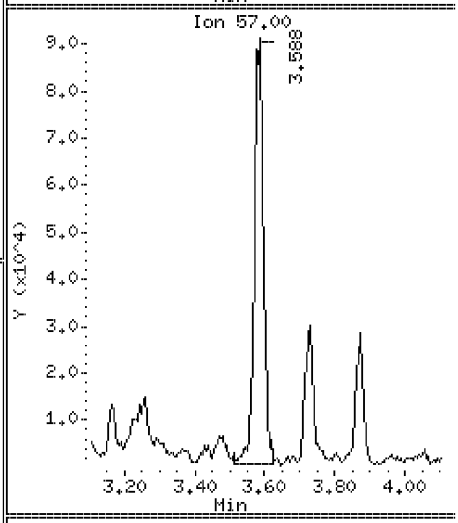


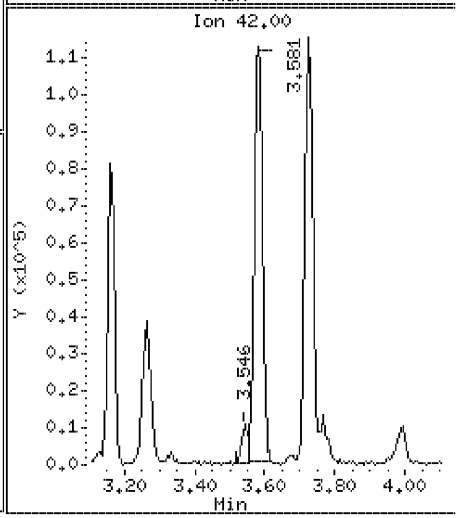












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

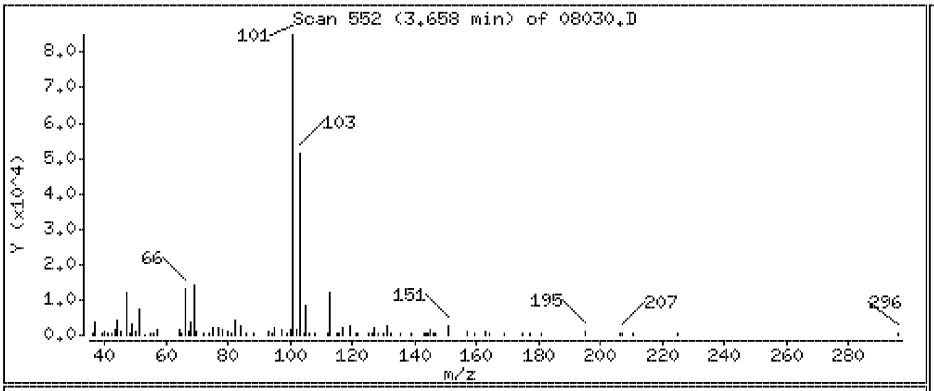
Operator: NCK

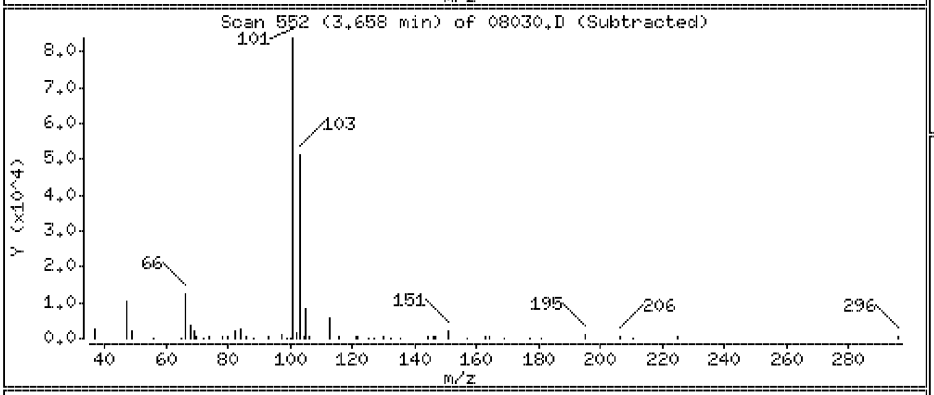
Column phase: J&W DB-5

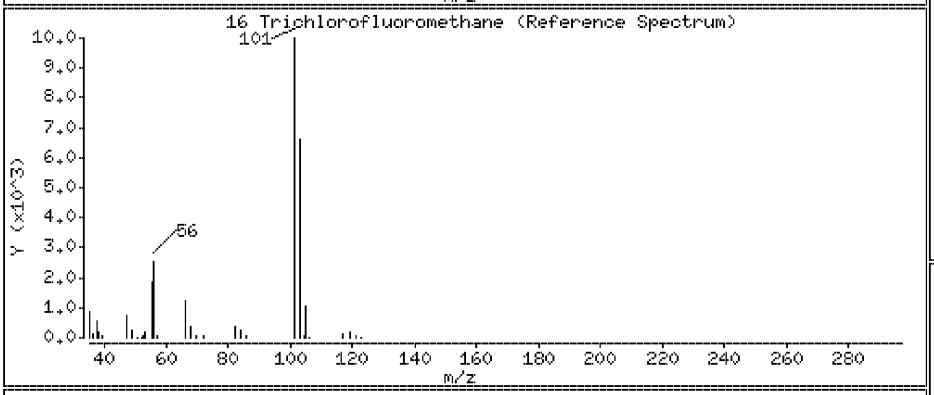
Column diameter: 0.32

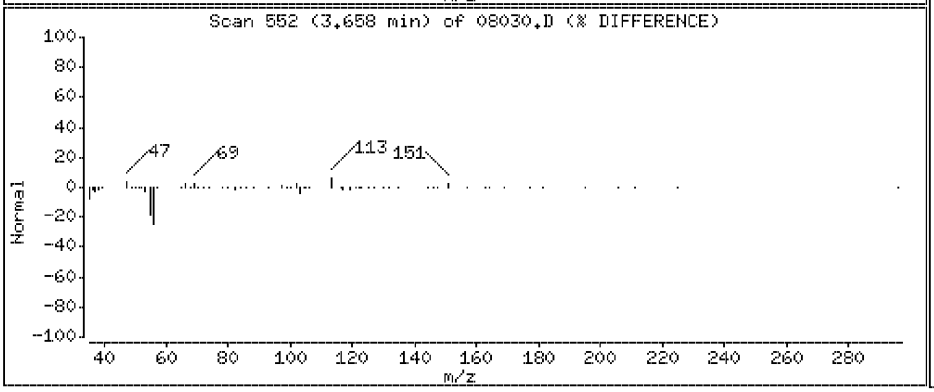
16 Trichlorofluoromethane

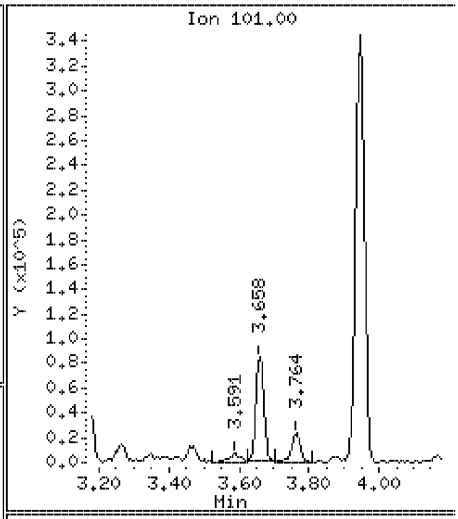
Concentration: 1.68 ppbv

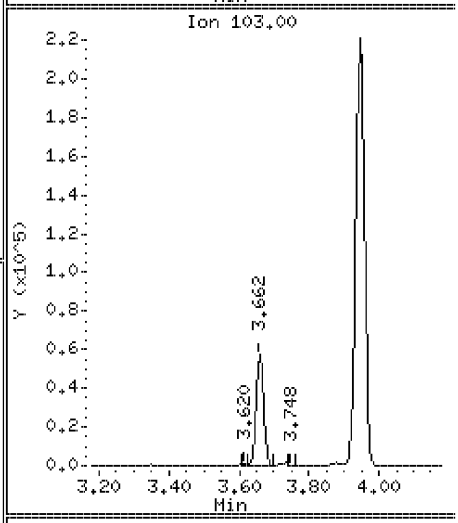


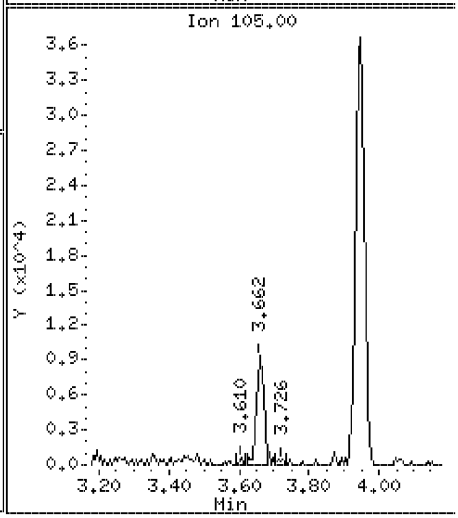












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

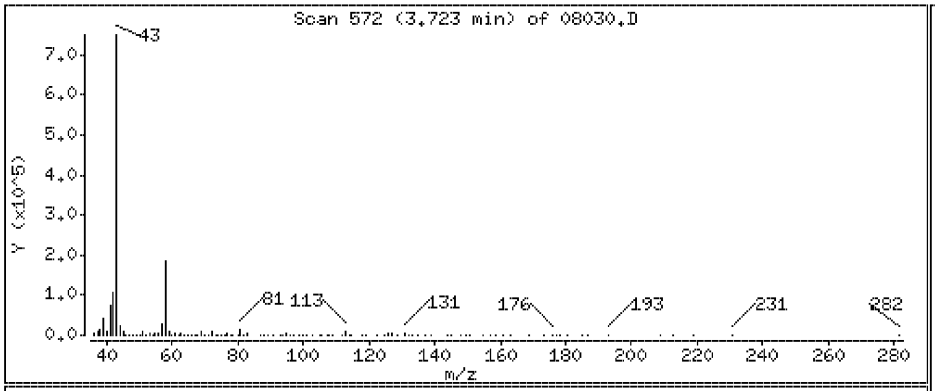
Operator: NCK

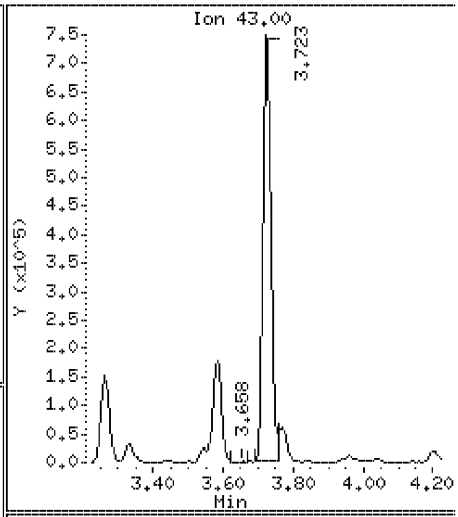
Column phase: J&W DB-5

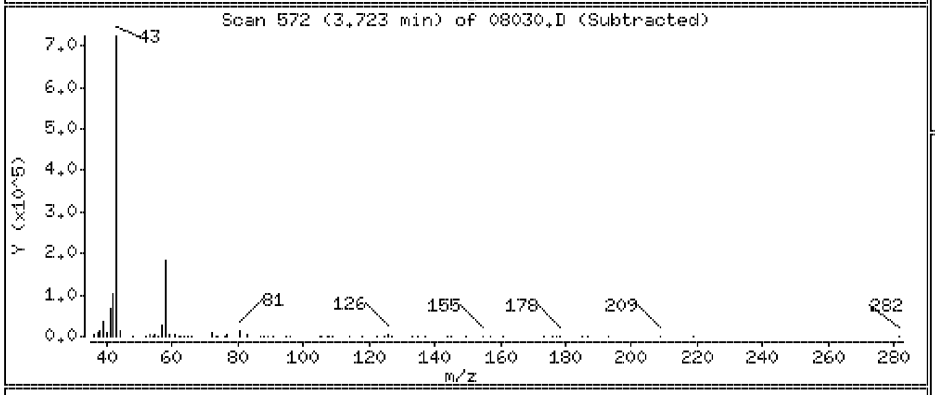
Column diameter: 0.32

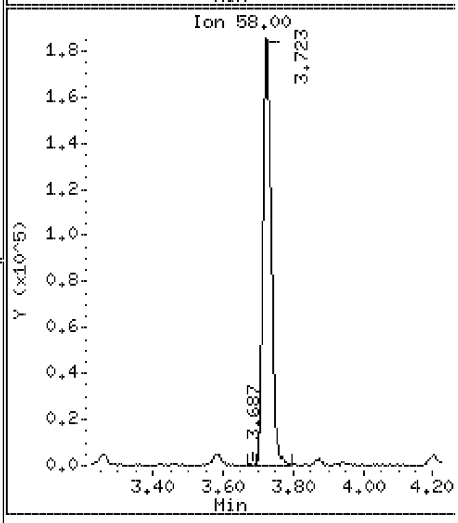
18 Acetone

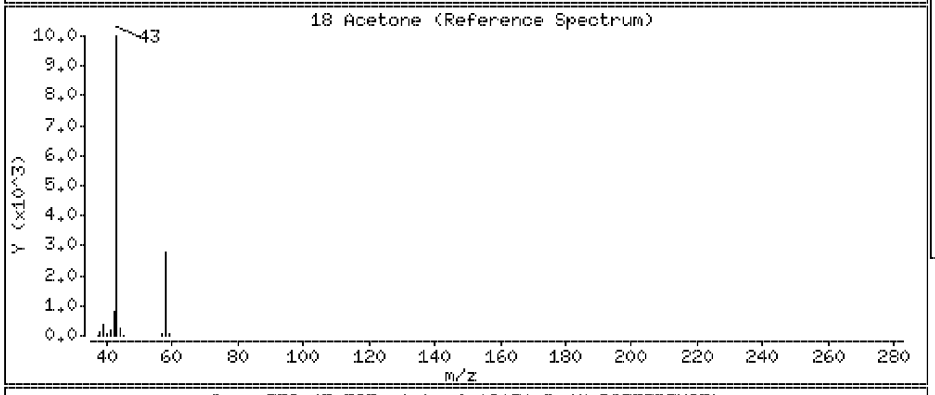
Concentration: 18.6 ppbv

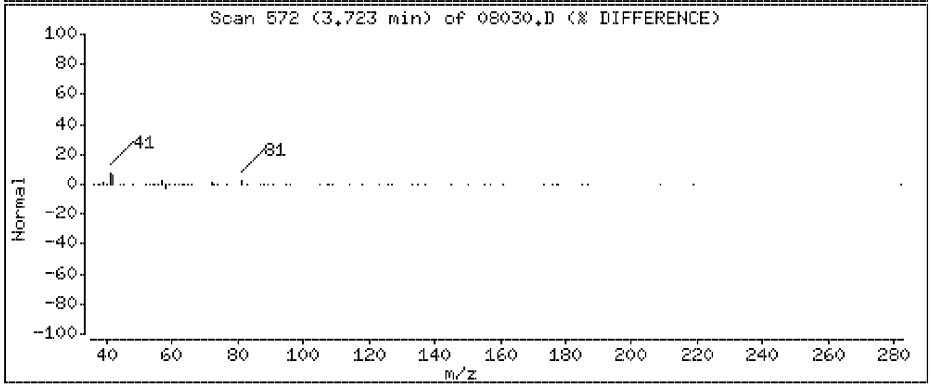












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

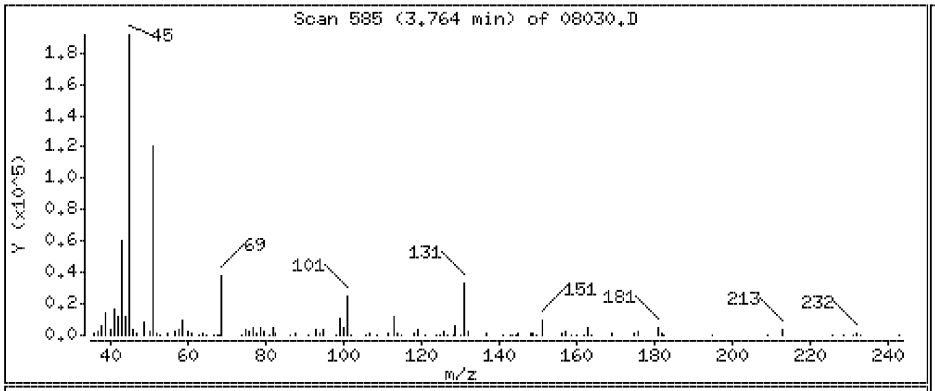
Operator: NCK

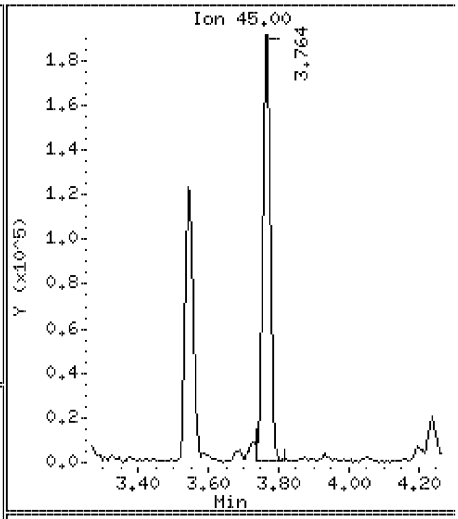
Column phase: J&W DB-5

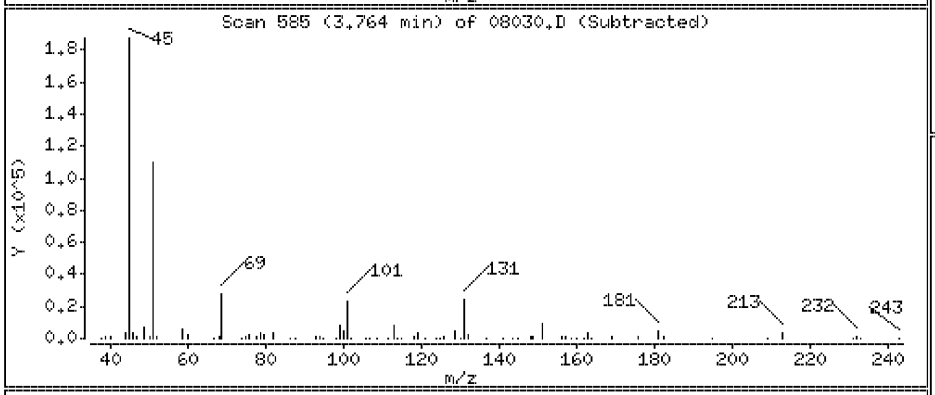
Column diameter: 0.32

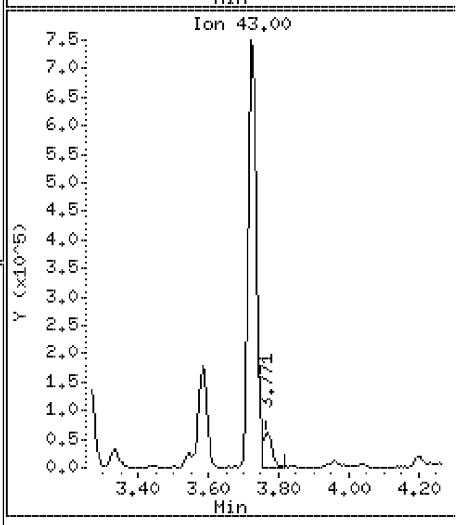
19 Isopropyl Alcohol

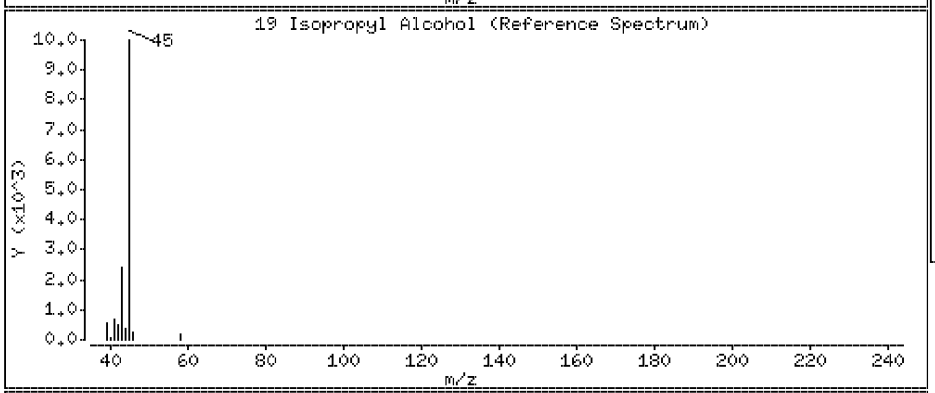
Concentration: 4.01 ppbv

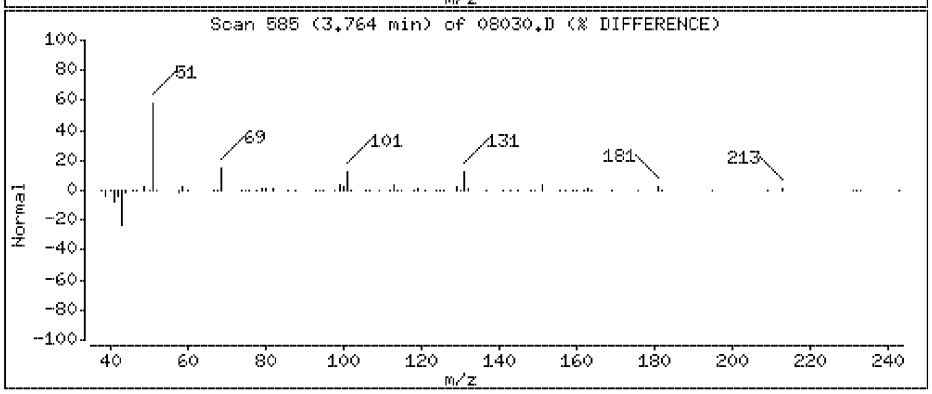












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

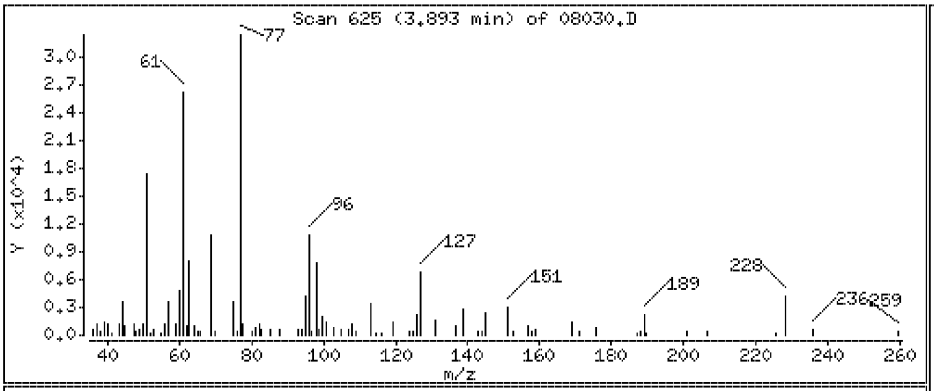
Operator: NCK

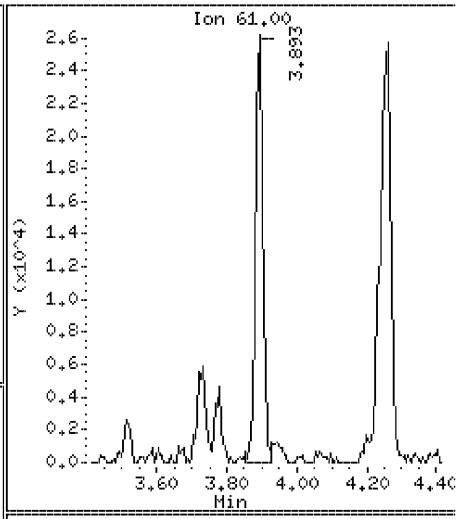
Column phase: J&W DB-5

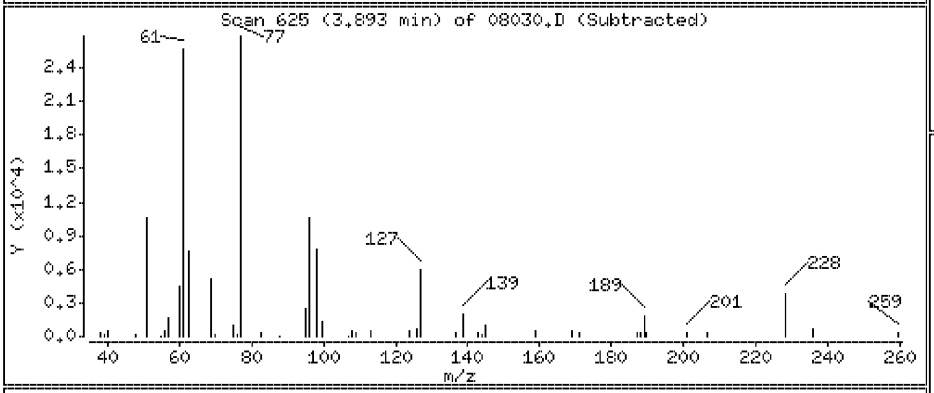
Column diameter: 0.32

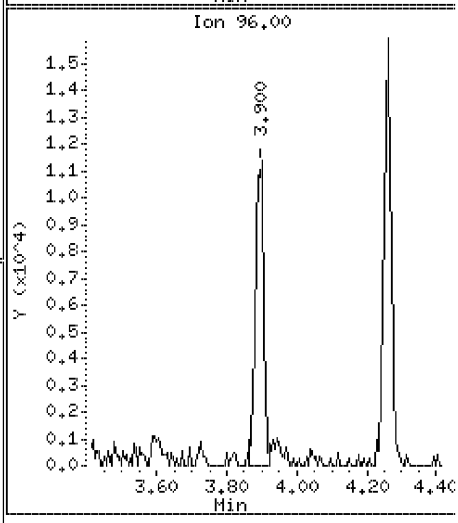
20 1,1-Dichloroethene

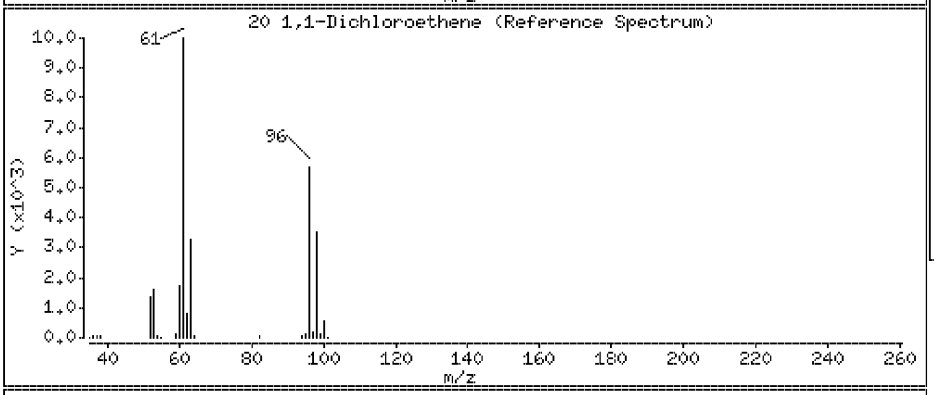
Concentration: 0.658 ppbv

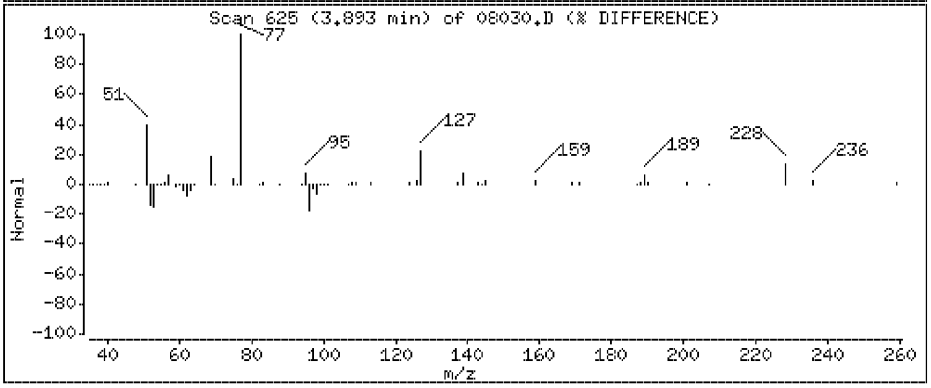












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

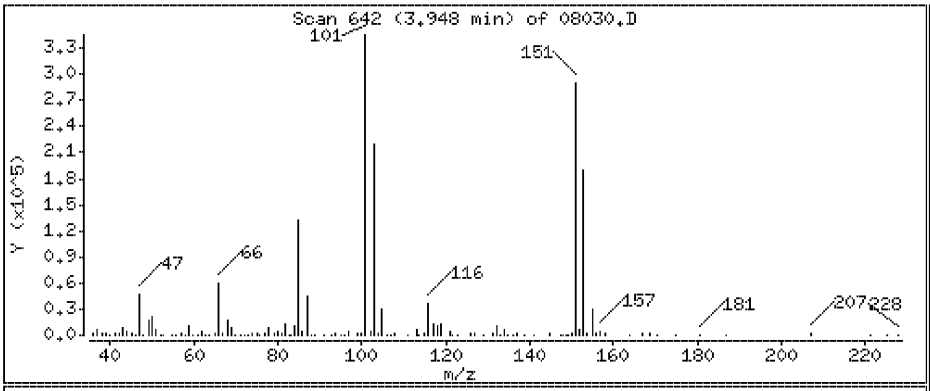
Operator: NCK

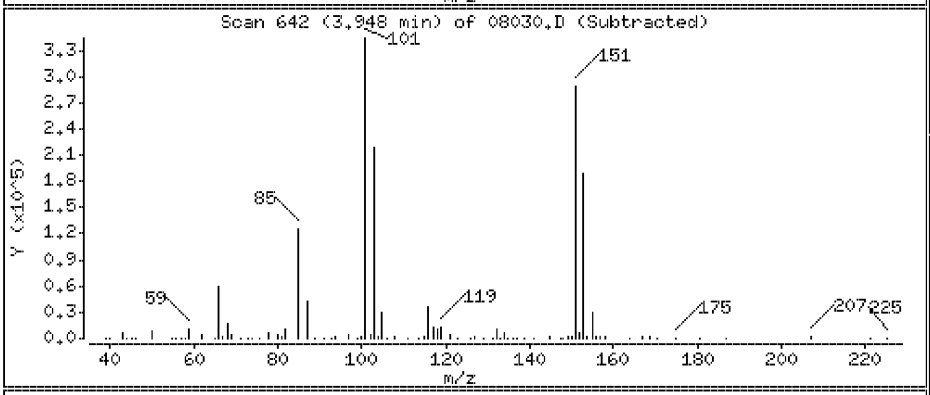
Column phase: J&W DB-5

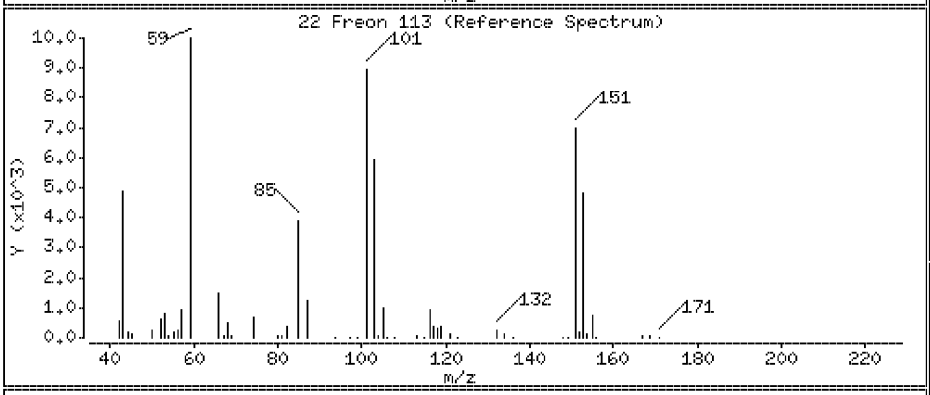
Column diameter: 0.32

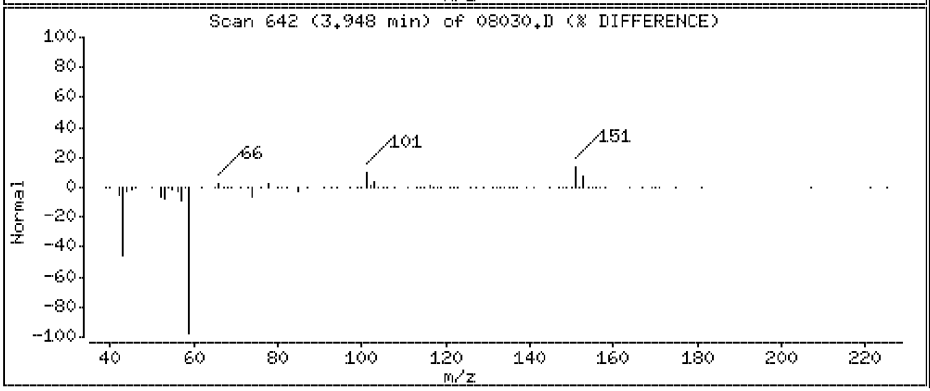
22 Freon 113

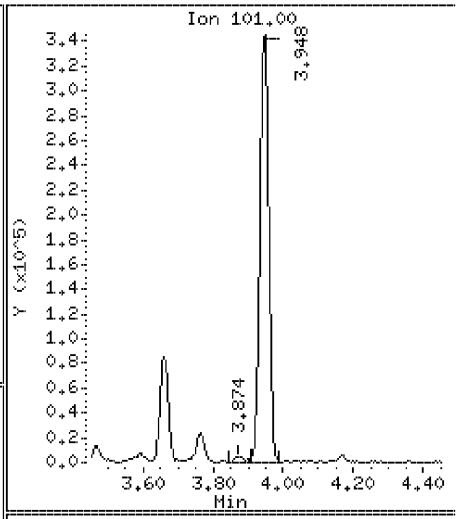
Concentration: 10.1 ppbv

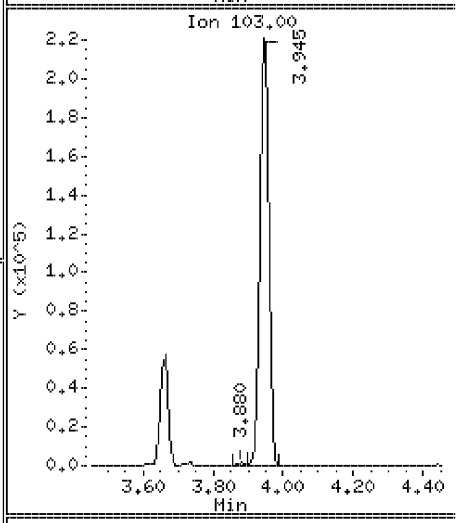


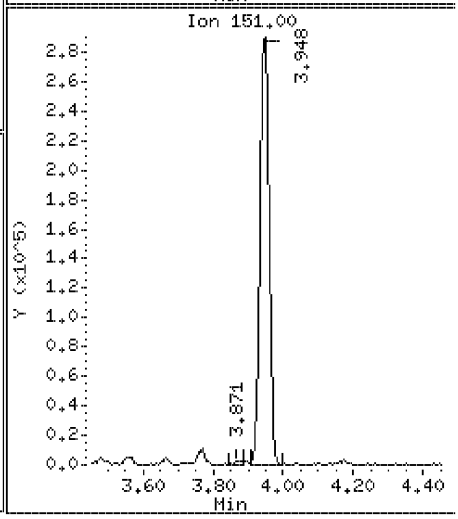












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

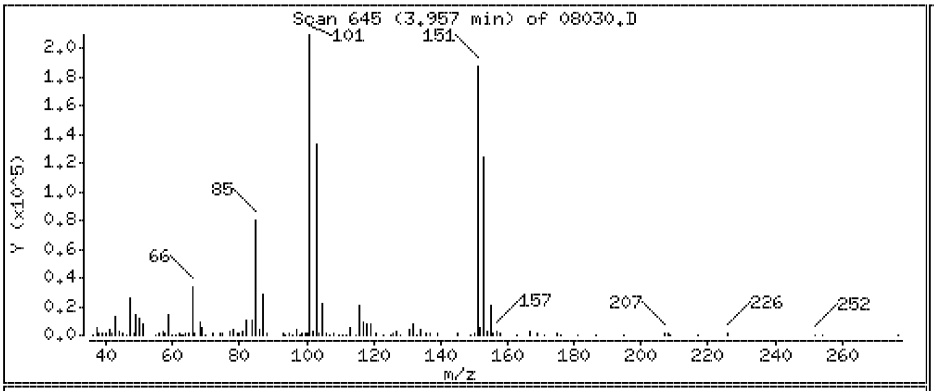
Operator: NCK

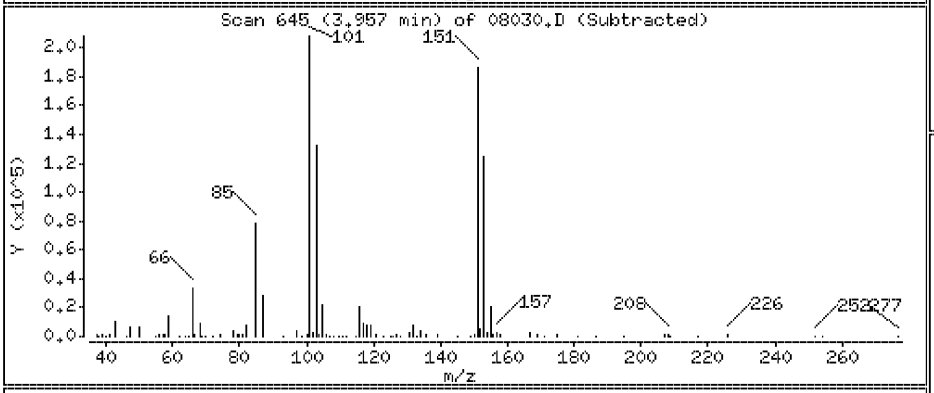
Column phase: J&W DB-5

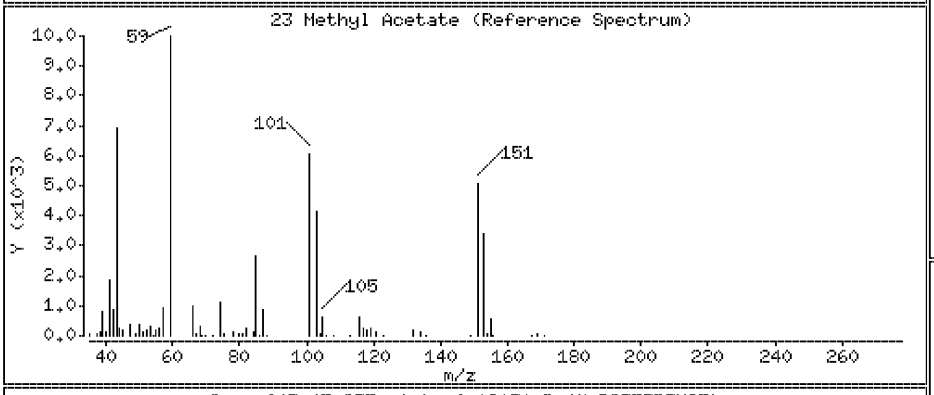
Column diameter: 0.32

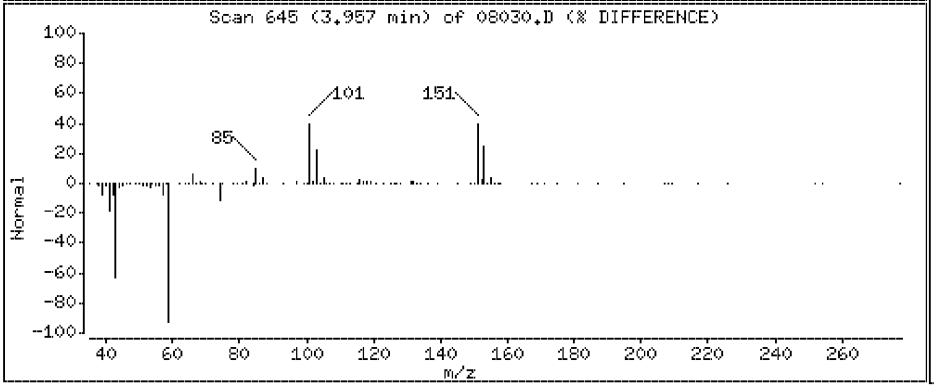
23 Methyl Acetate

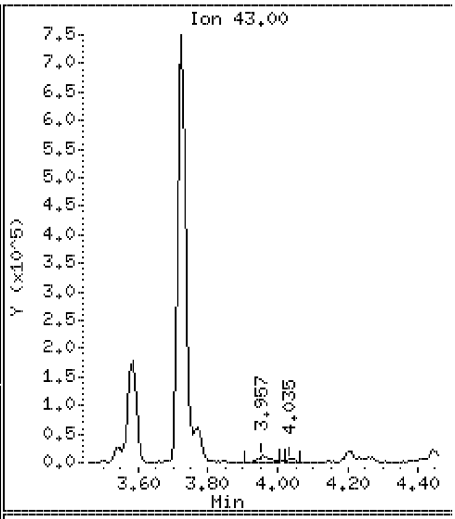
Concentration: 0.319 ppbv

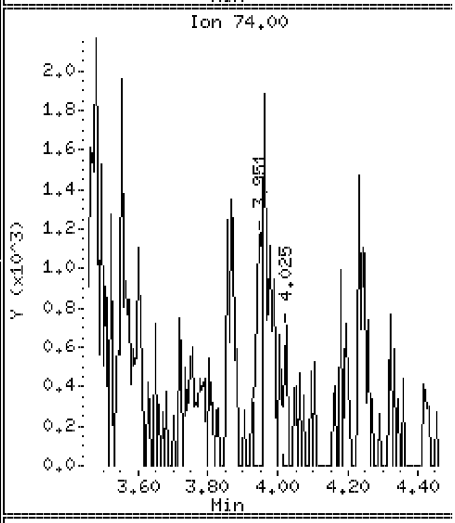


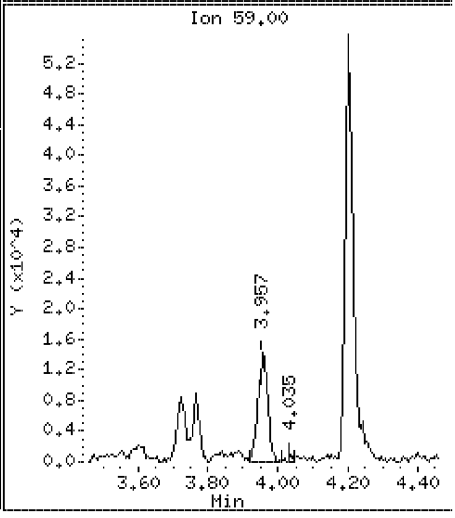












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

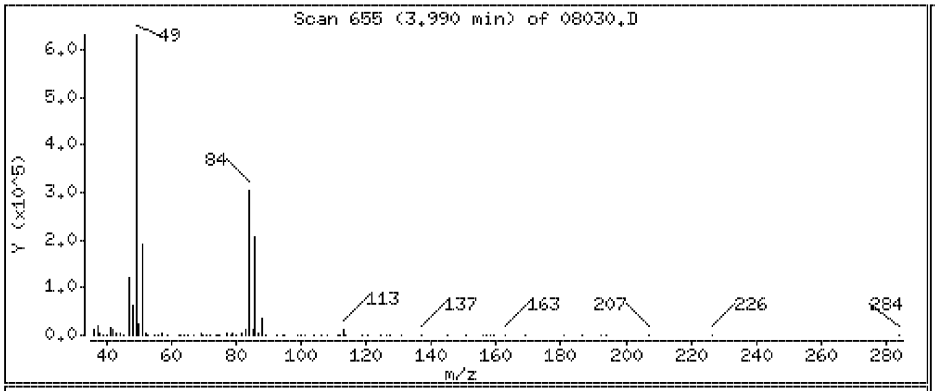
Operator: NCK

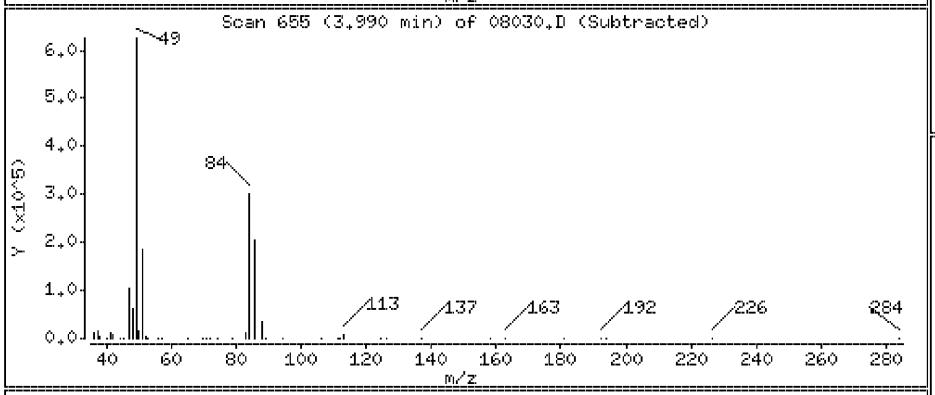
Column phase: J&W DB-5

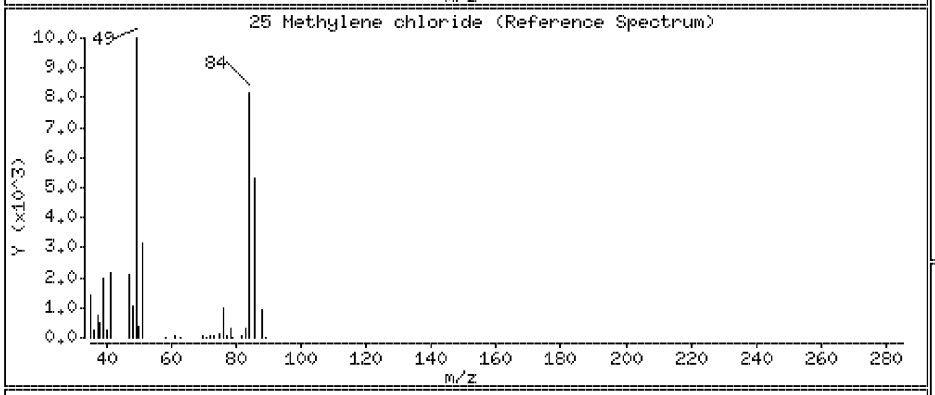
Column diameter: 0.32

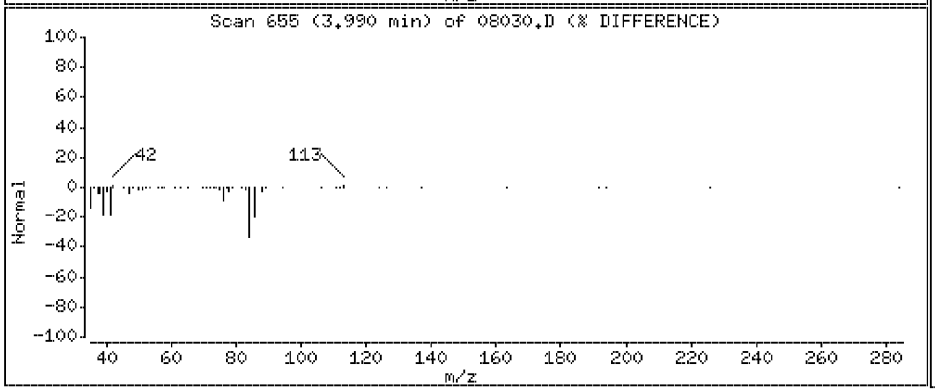
25 Methylene chloride

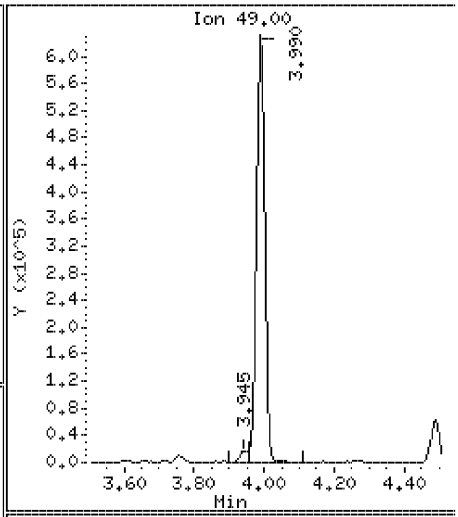
Concentration: 20.2 ppbv

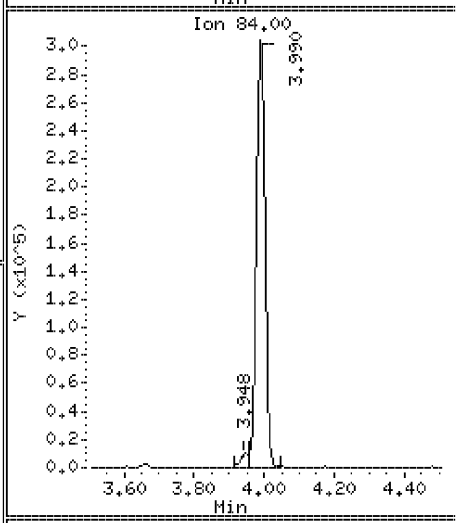


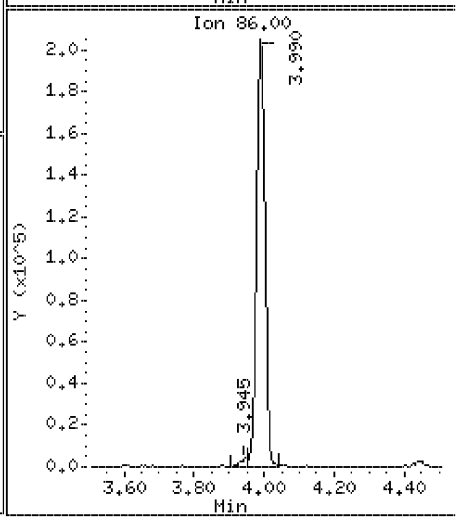












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

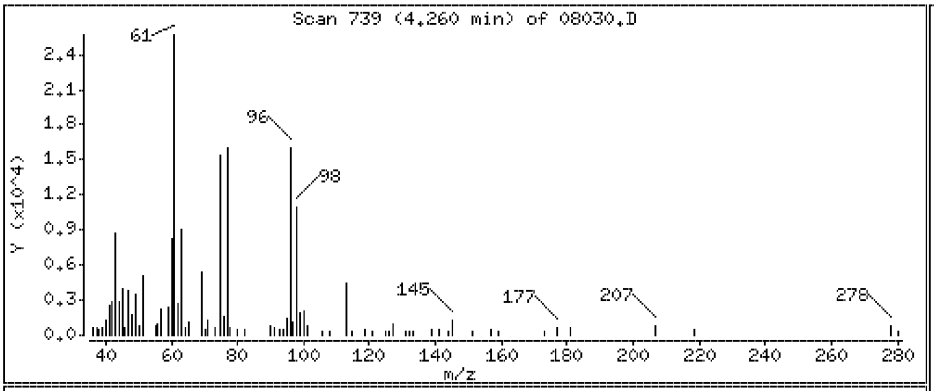
Operator: NCK

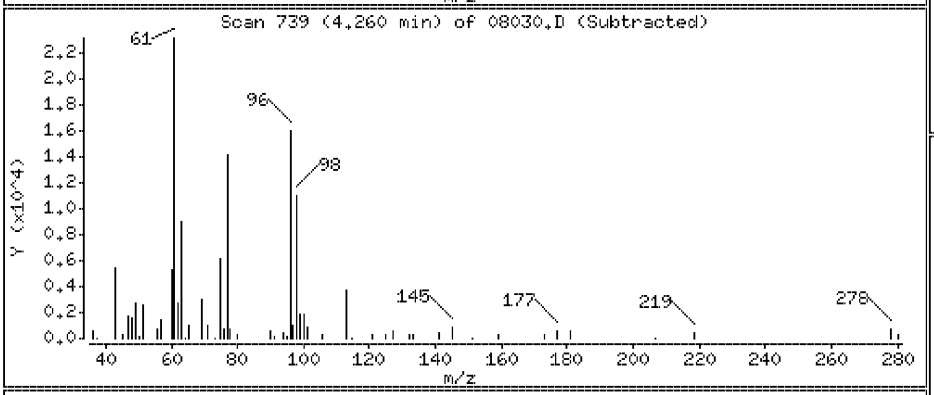
Column phase: J&W DB-5

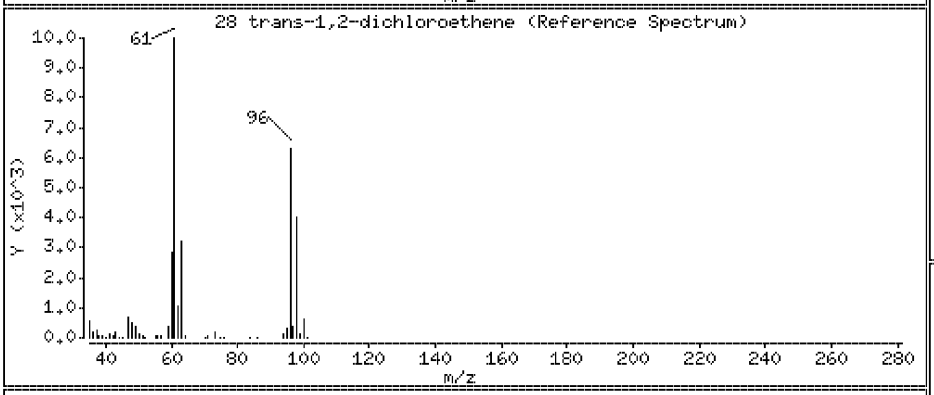
Column diameter: 0.32

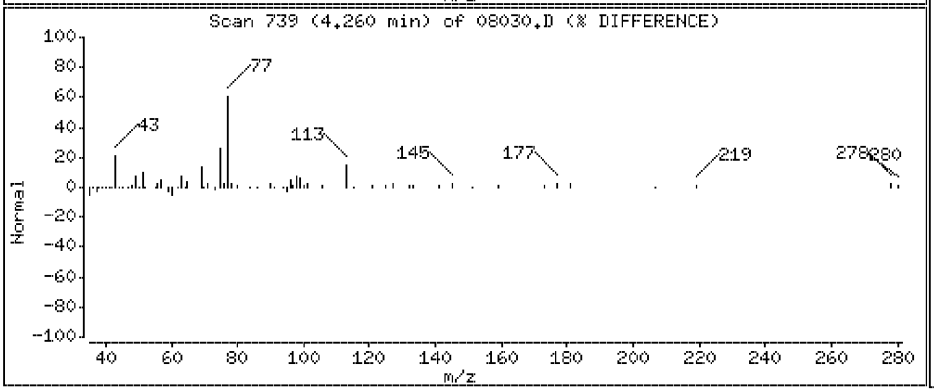
28 trans-1,2-dichloroethene

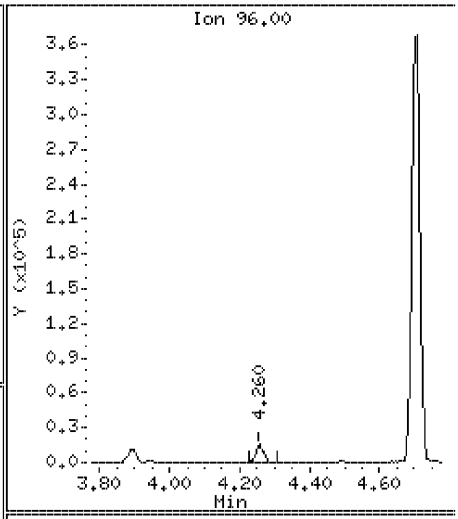
Concentration: 0.808 ppbv

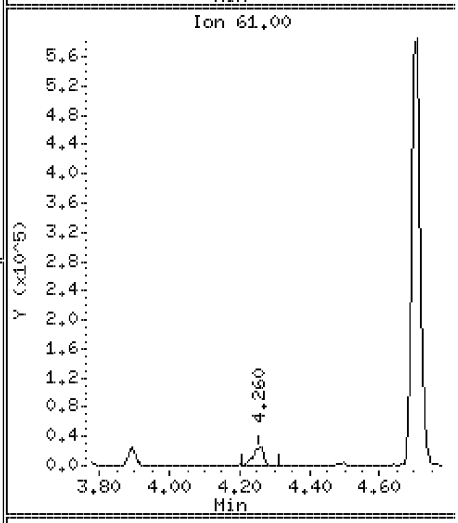


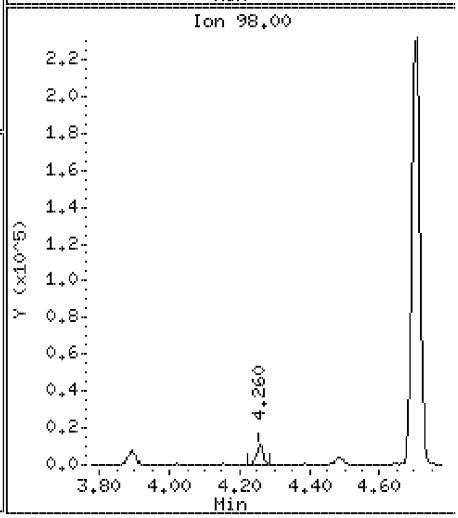












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

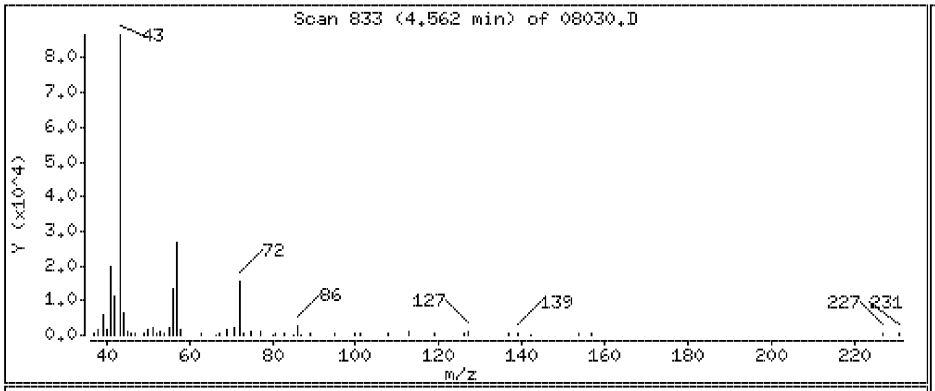
Operator: NCK

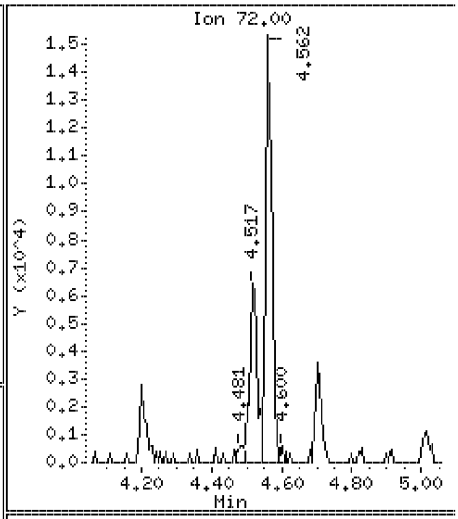
Column phase: J&W DB-5

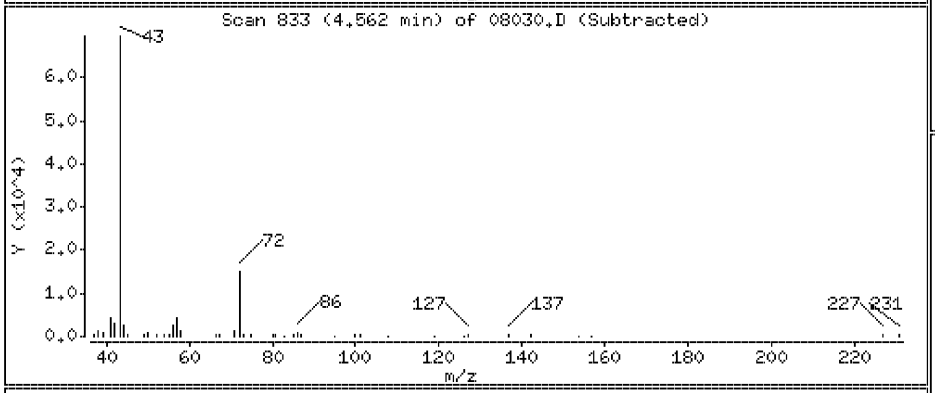
Column diameter: 0.32

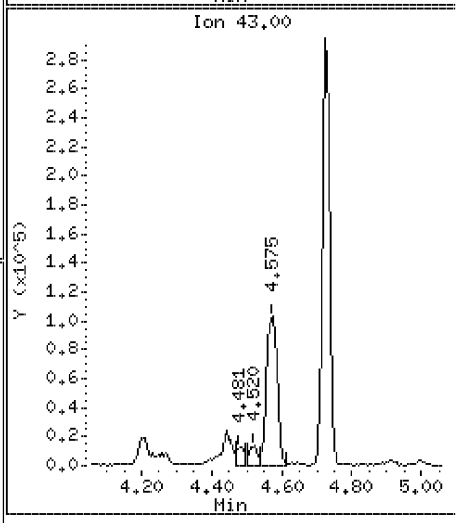
33 Methyl Ethyl Ketone

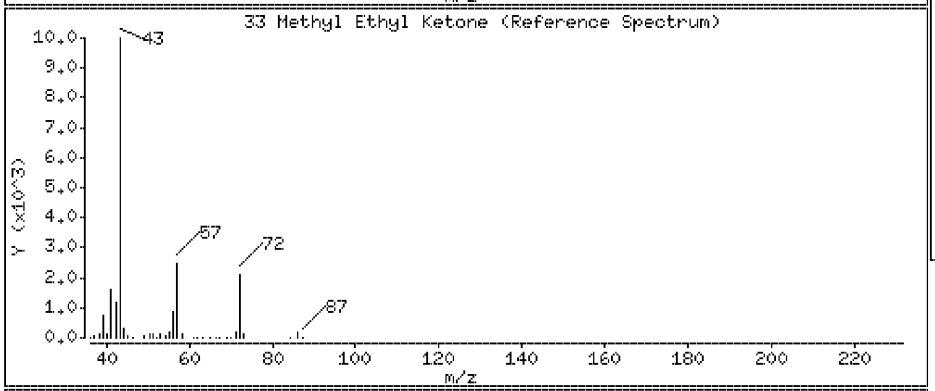
Concentration: 1.28 ppbv

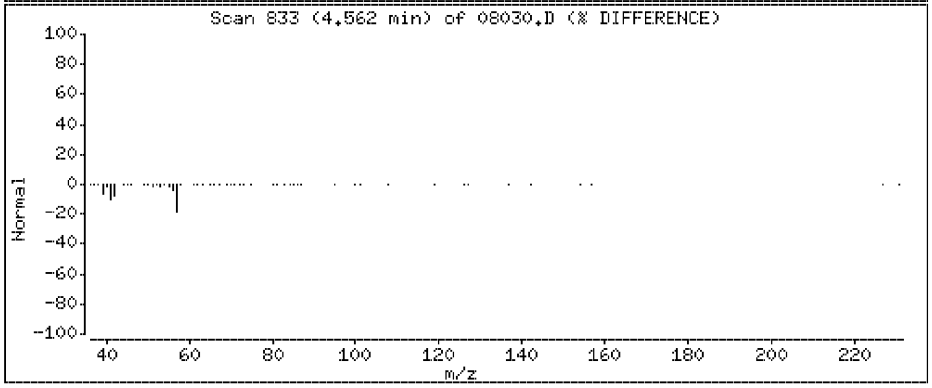












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

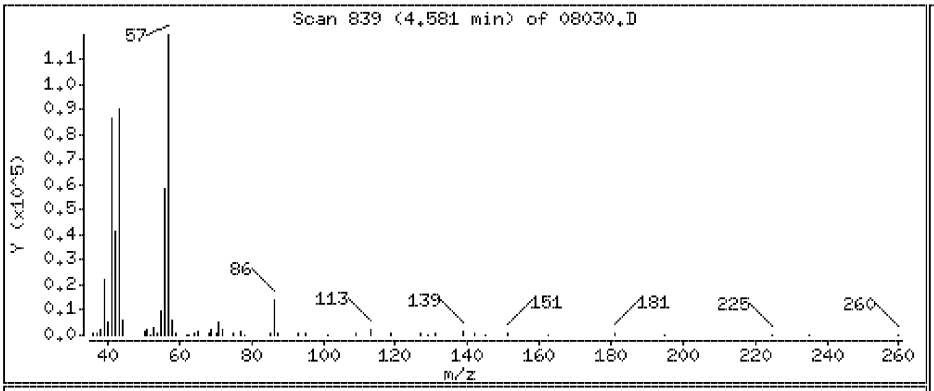
Operator: NCK

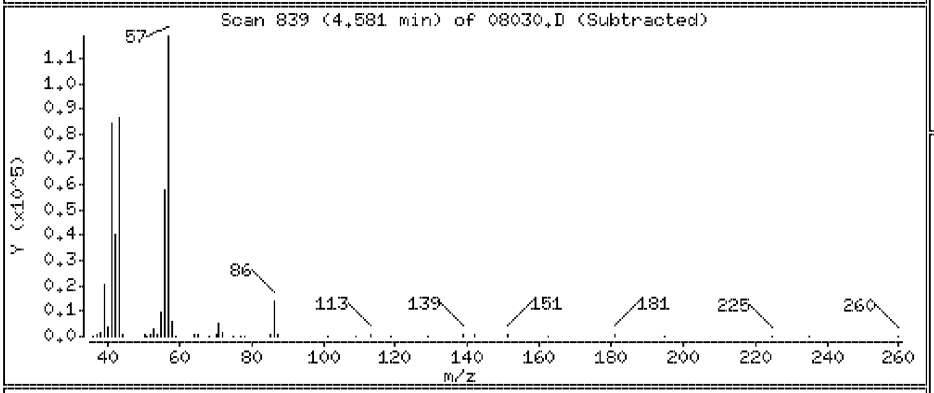
Column phase: J&W DB-5

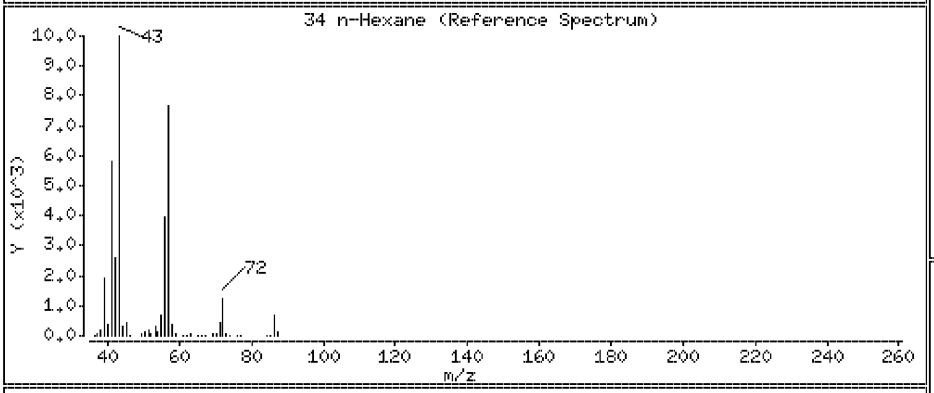
Column diameter: 0.32

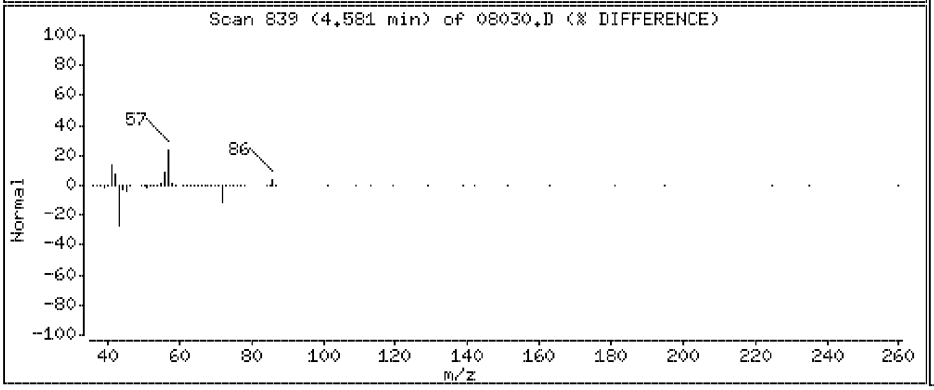
34 n-Hexane

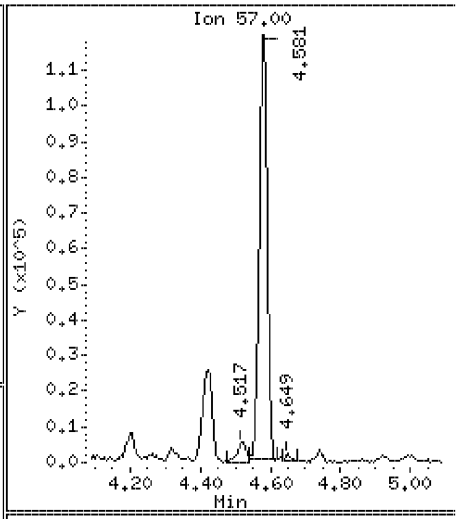
Concentration: 2.75 ppbv

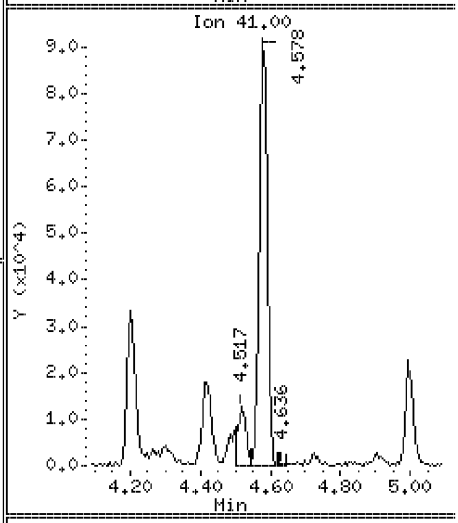


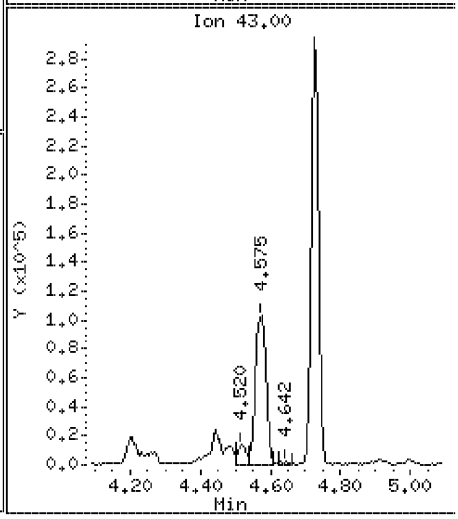












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

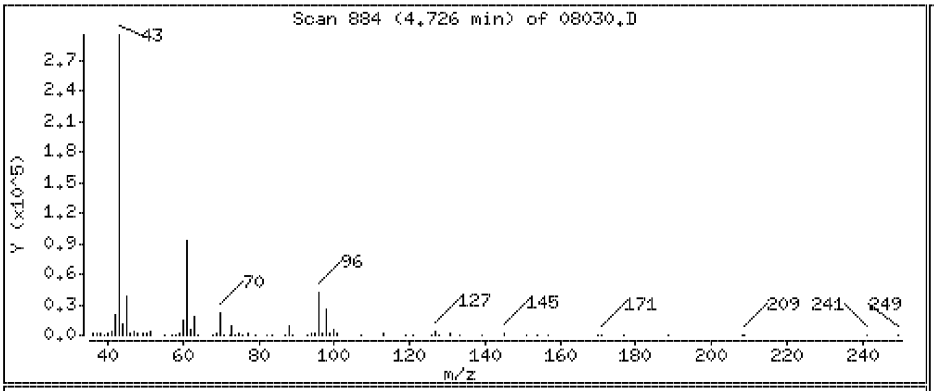
Operator: NCK

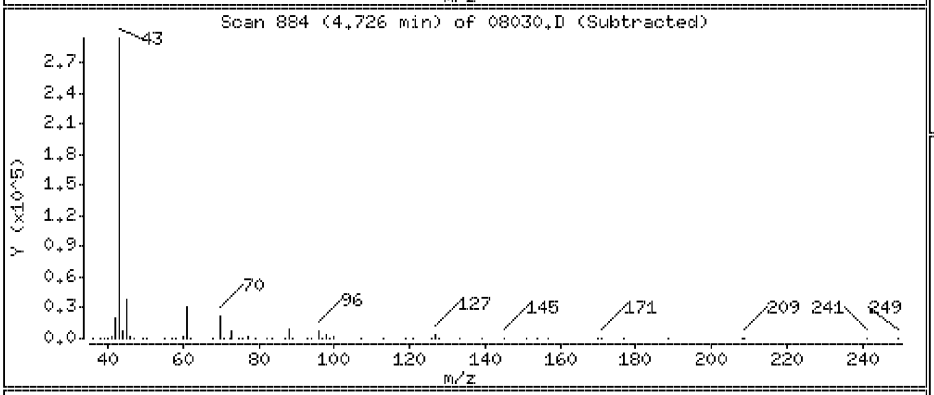
Column phase: J&W DB-5

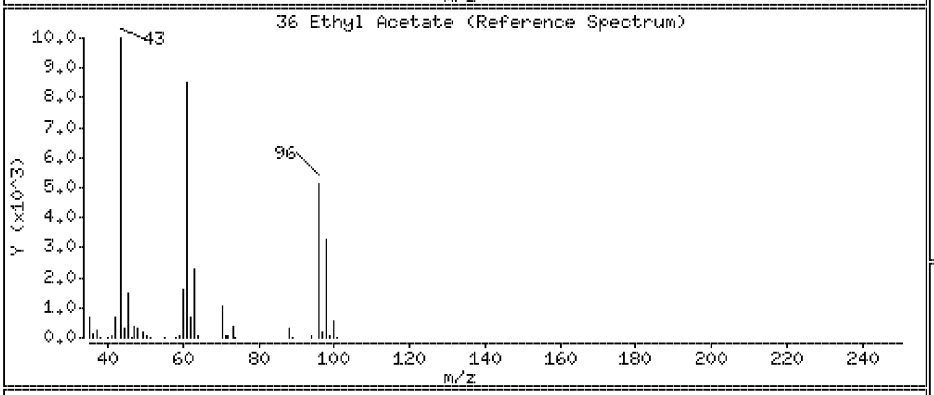
Column diameter: 0.32

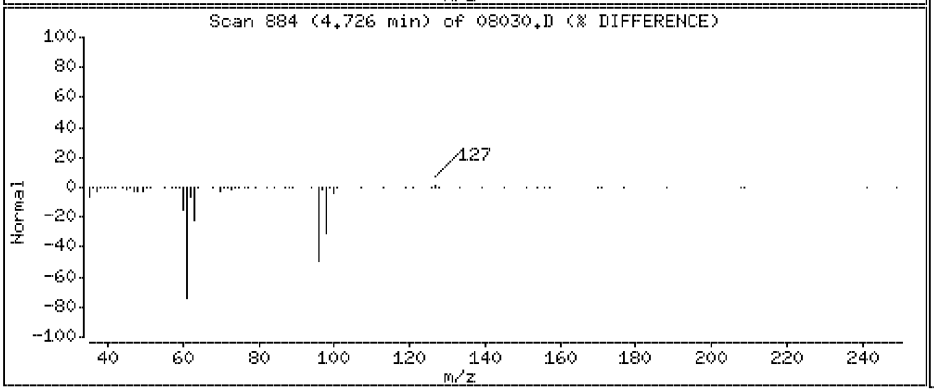
36 Ethyl Acetate

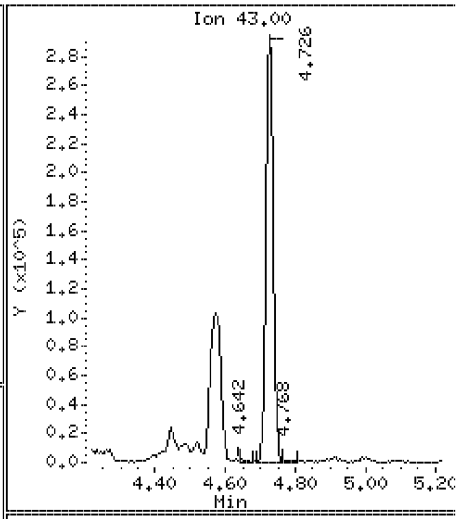
Concentration: 4.40 ppbv

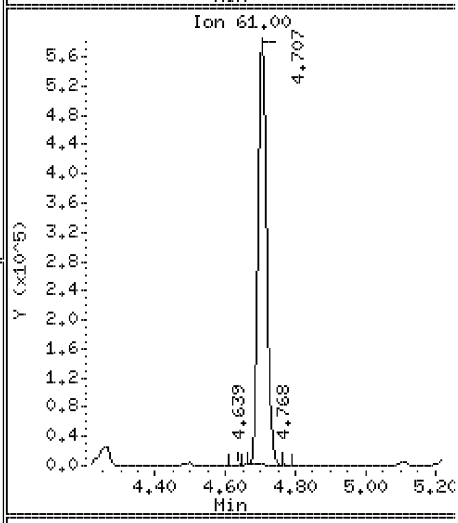


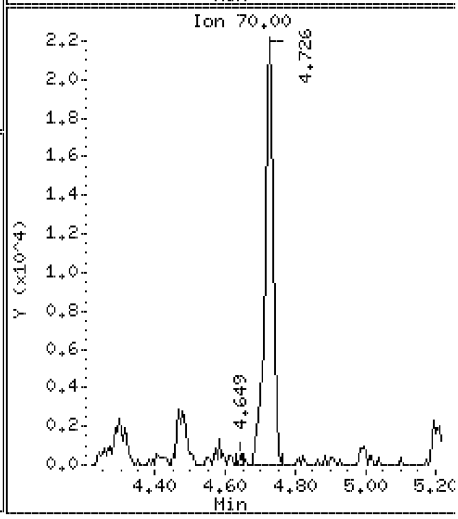












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

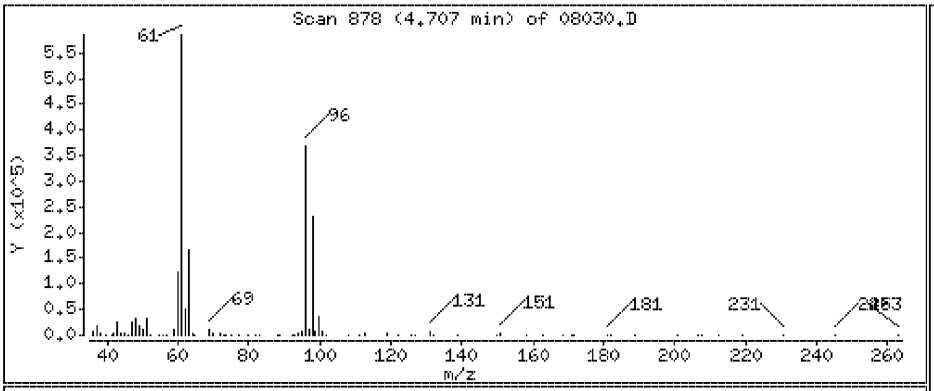
Operator: NCK

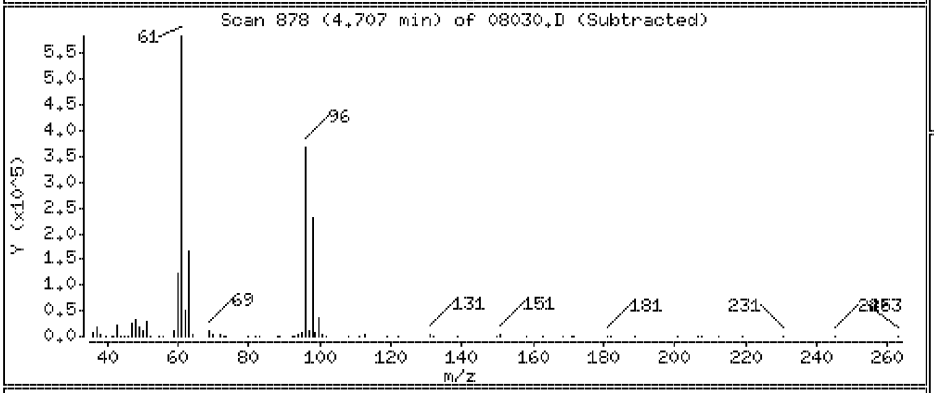
Column phase: J&W DB-5

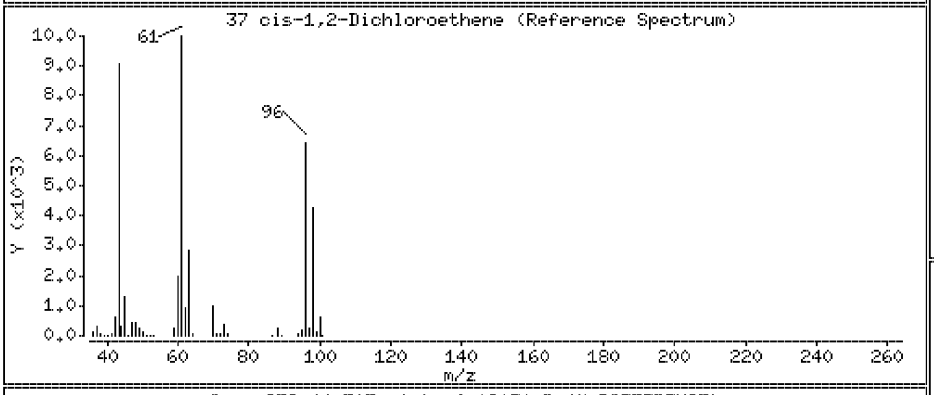
Column diameter: 0.32

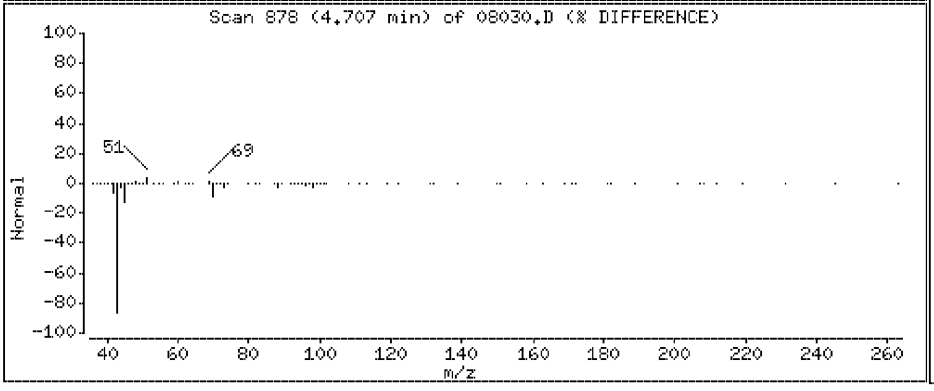
37 cis-1,2-Dichloroethene

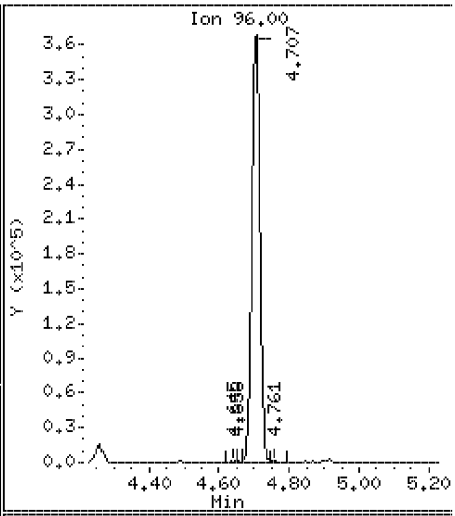
Concentration: 17.2 ppbv

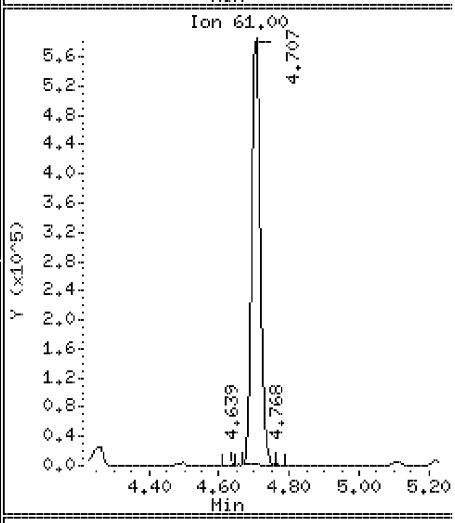


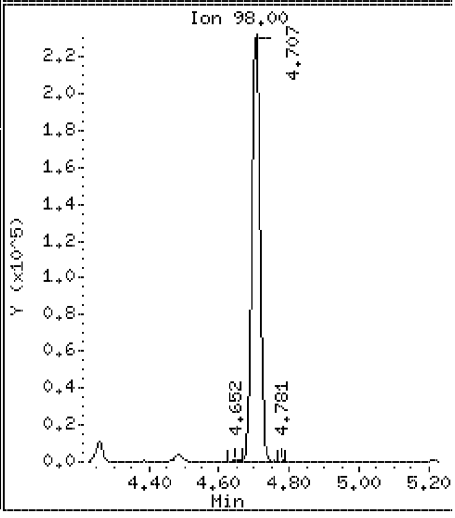












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

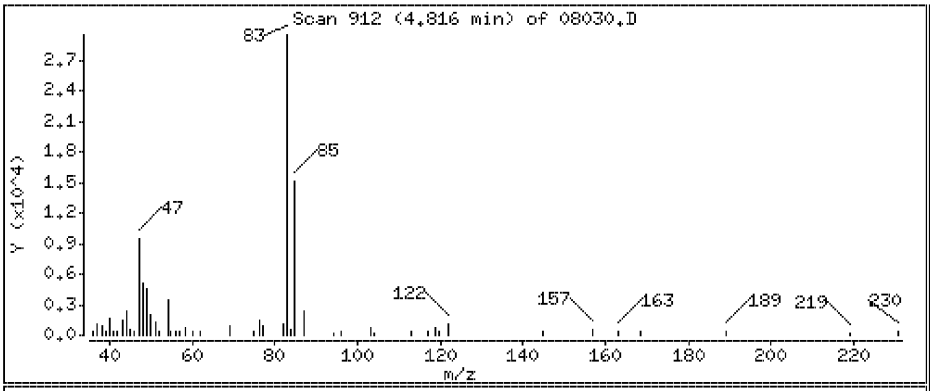
Operator: NCK

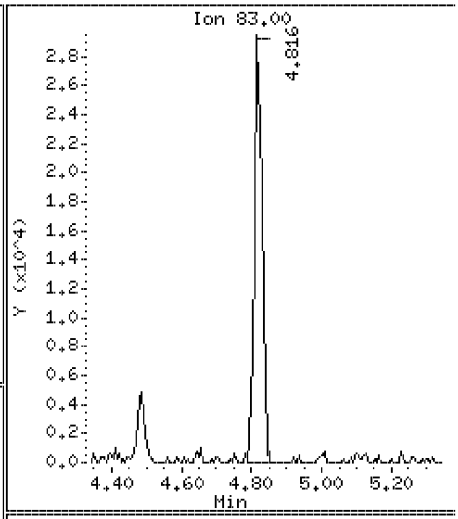
Column phase: J&W DB-5

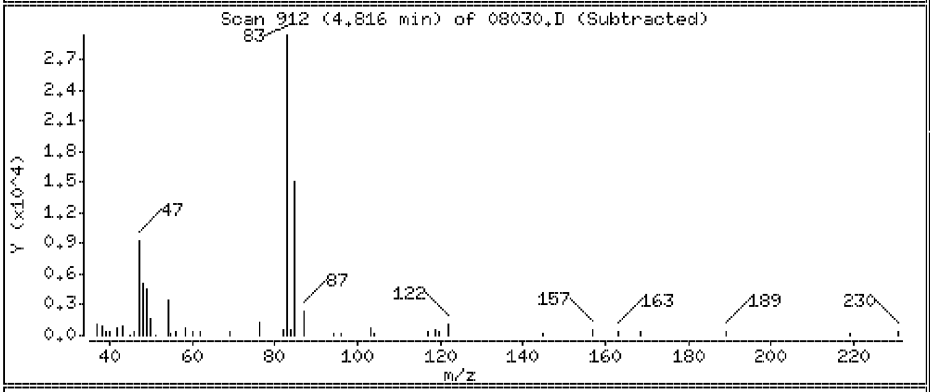
Column diameter: 0.32

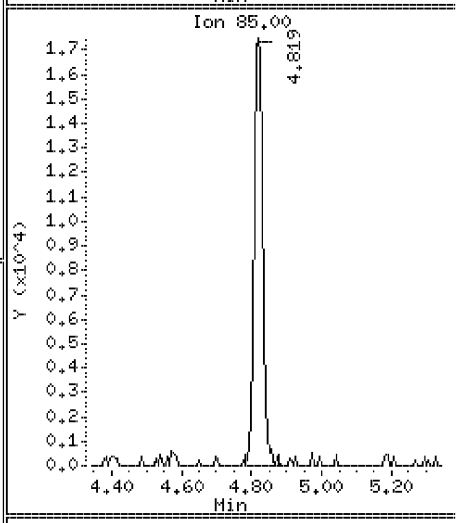
39 Chloroform

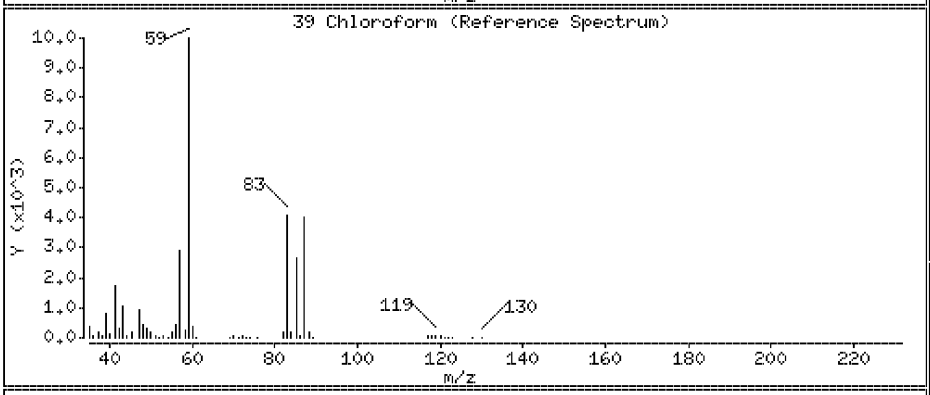
Concentration: 0.650 ppbv

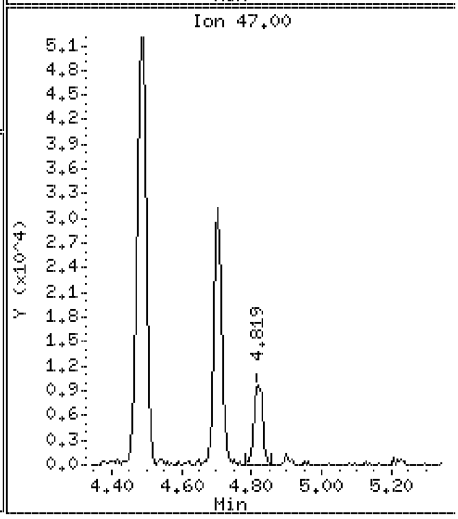


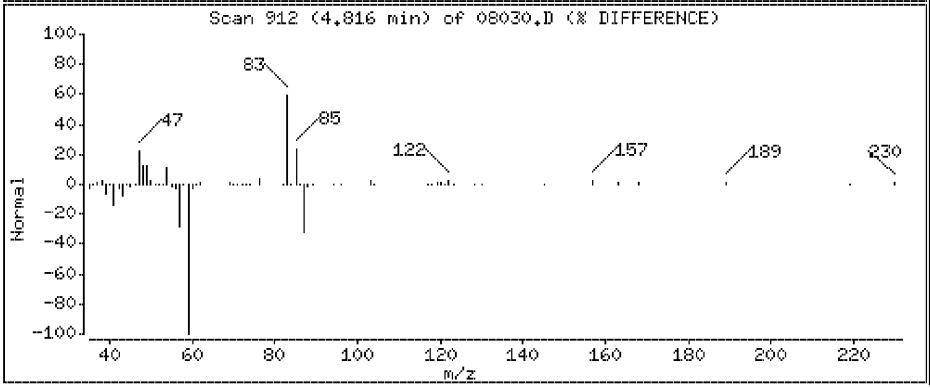












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

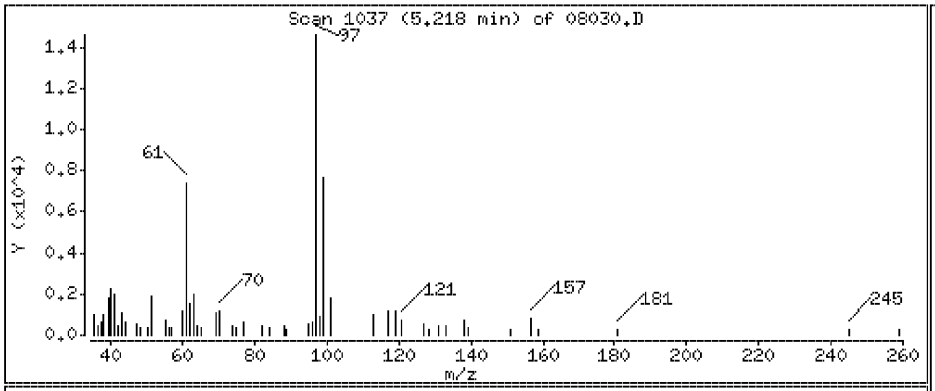
Operator: NCK

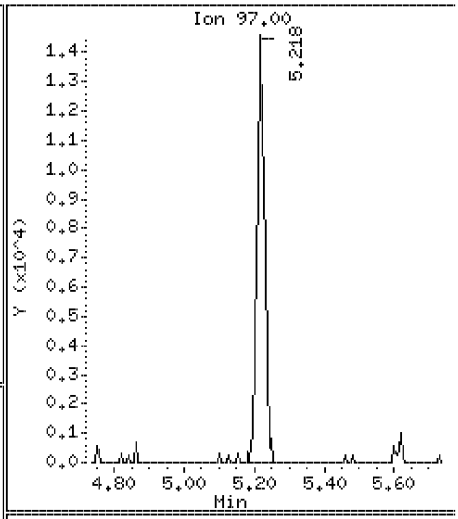
Column phase: J&W DB-5

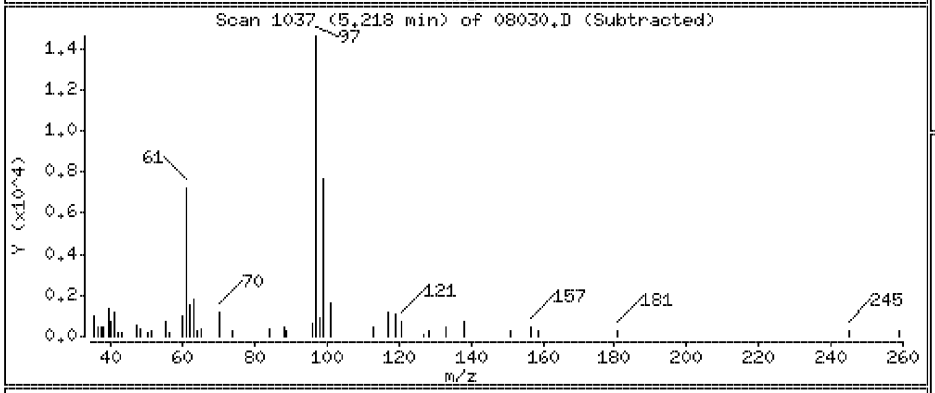
Column diameter: 0.32

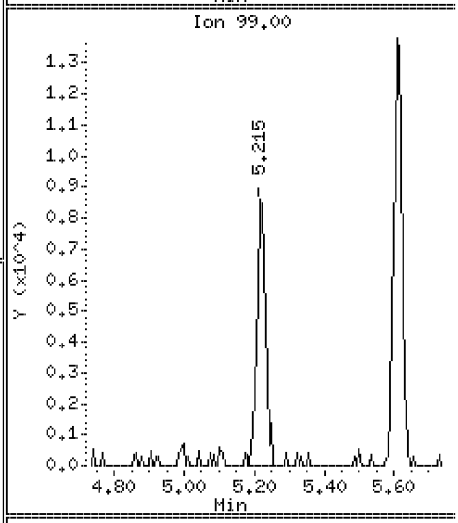
41 1,1,1-Trichloroethane

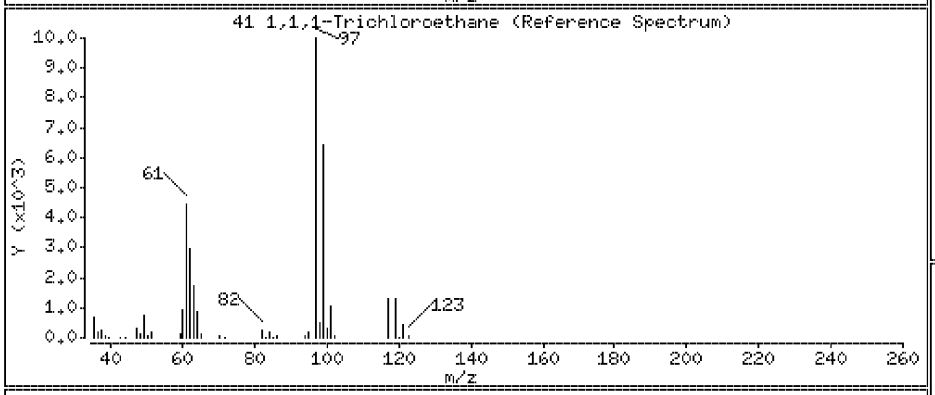
Concentration: 0.263 ppbv

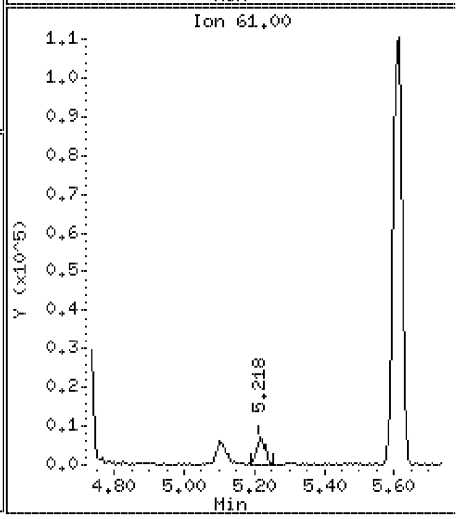


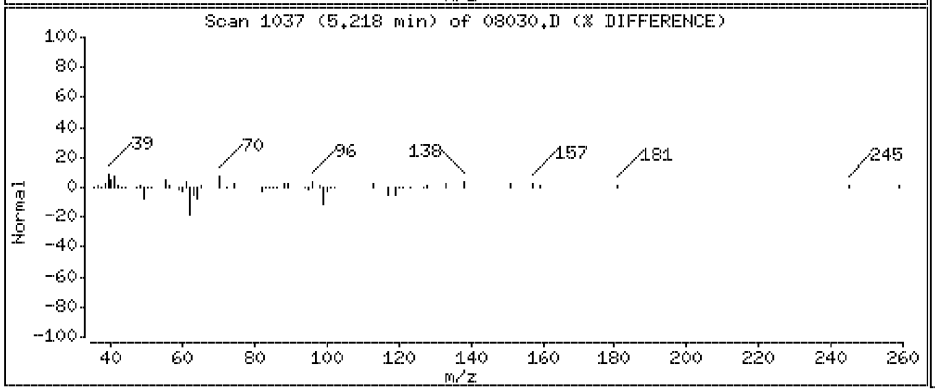












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

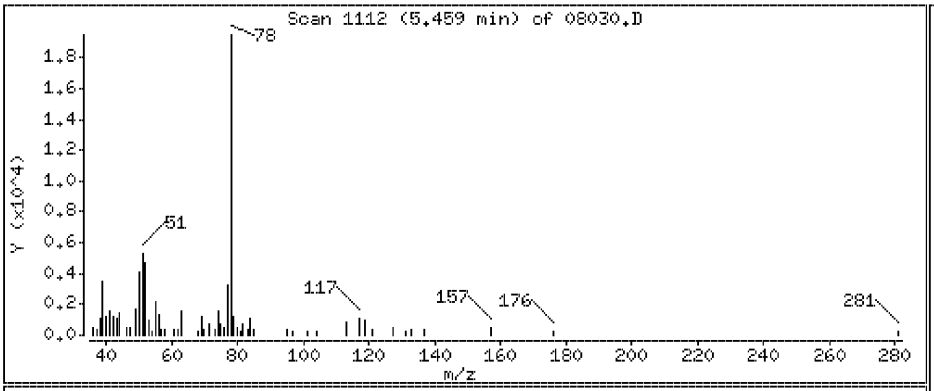
Operator: NCK

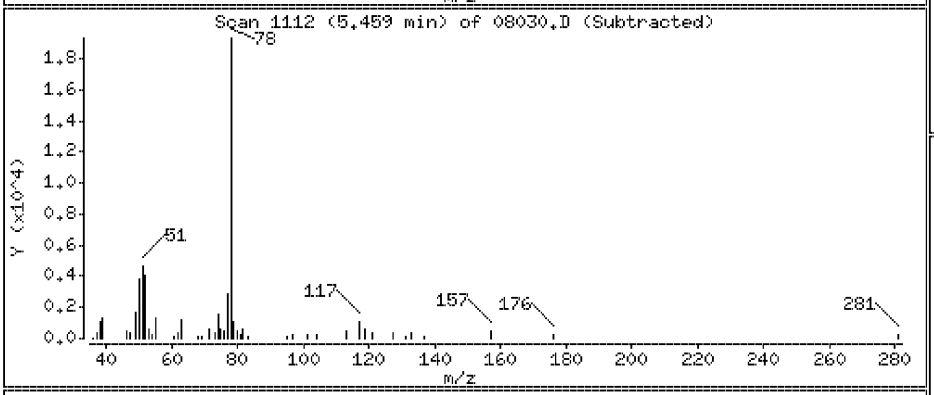
Column phase: J&W DB-5

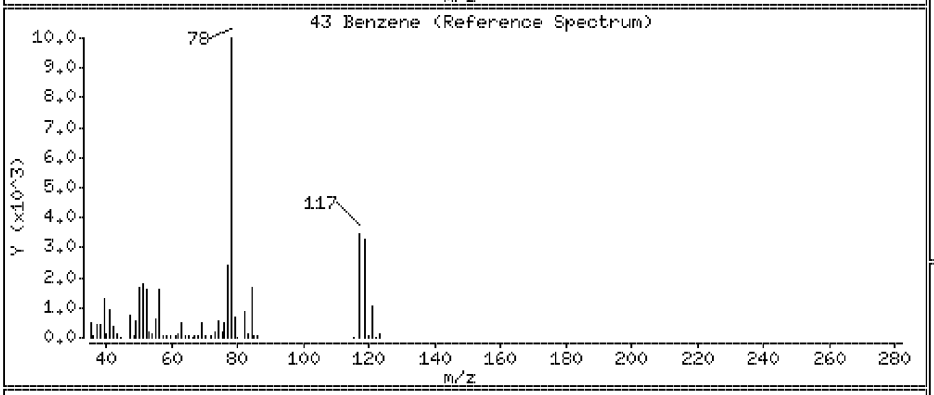
Column diameter: 0.32

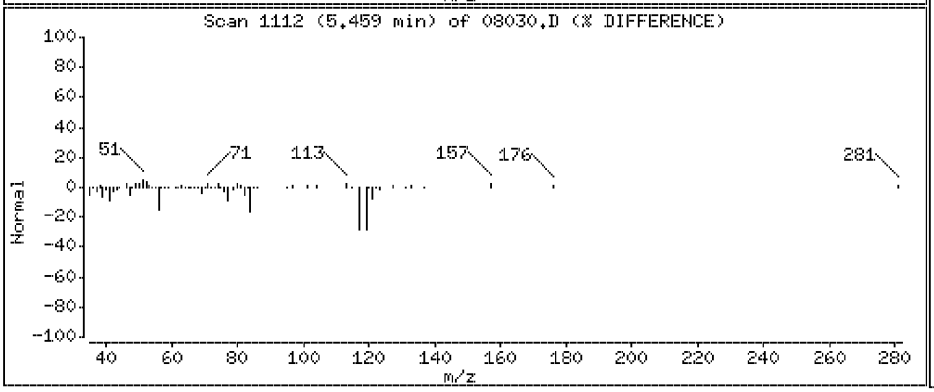
43 Benzene

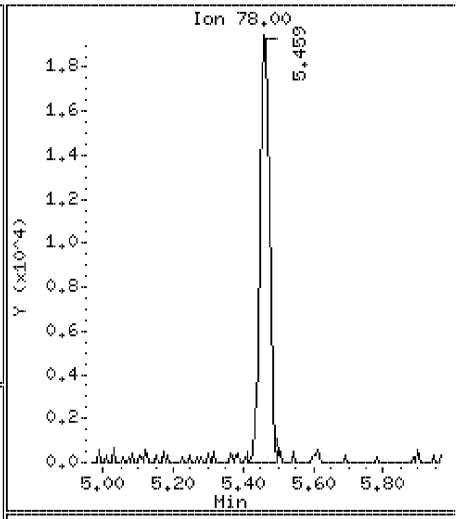
Concentration: 0.332 ppbv

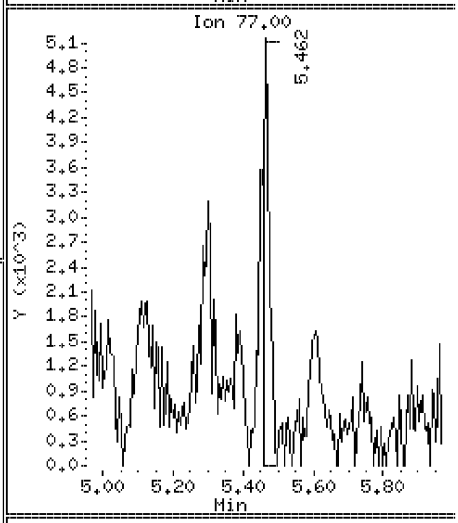


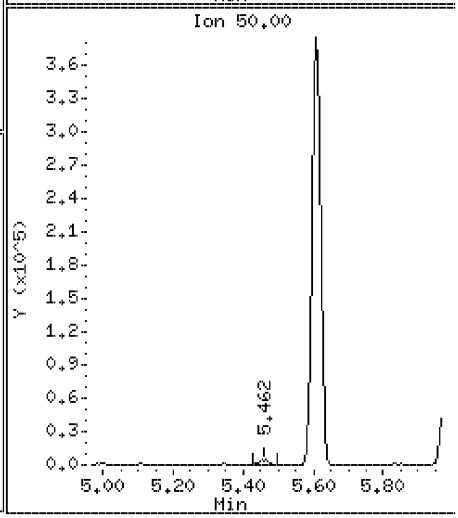












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

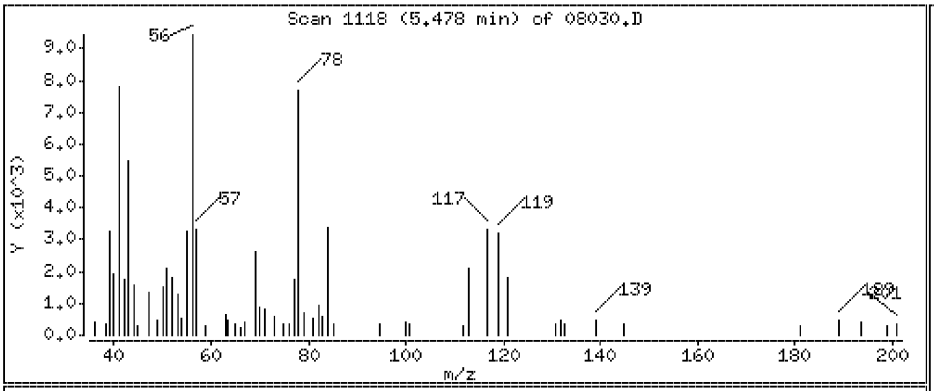
Operator: NCK

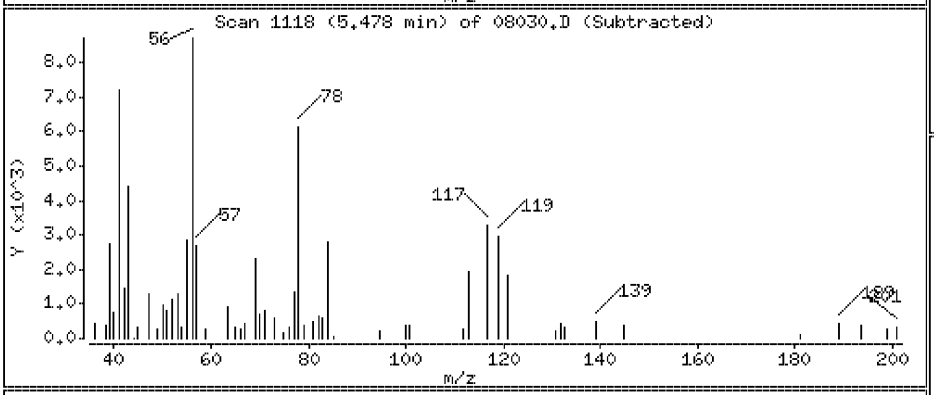
Column phase: J&W DB-5

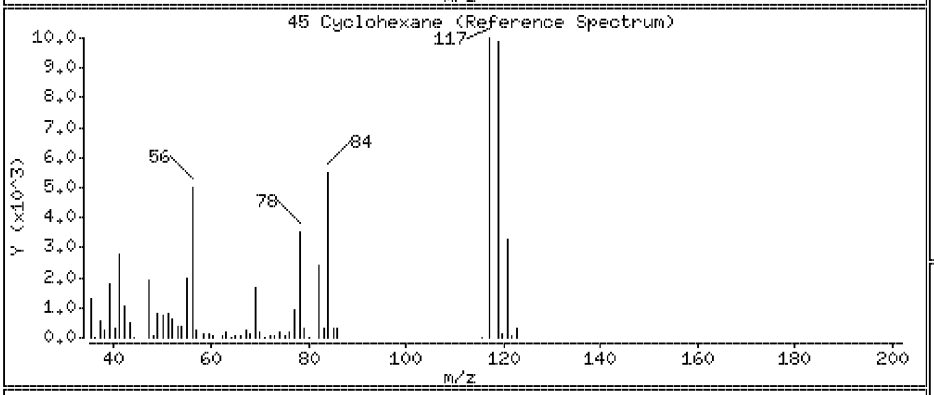
Column diameter: 0.32

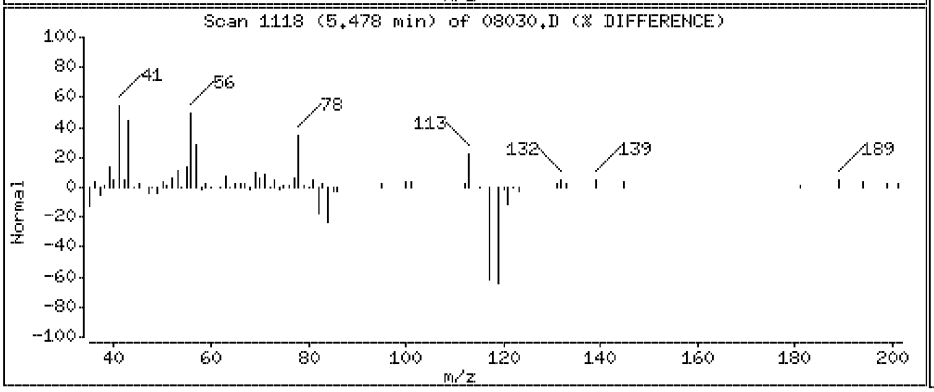
45 Cyclohexane

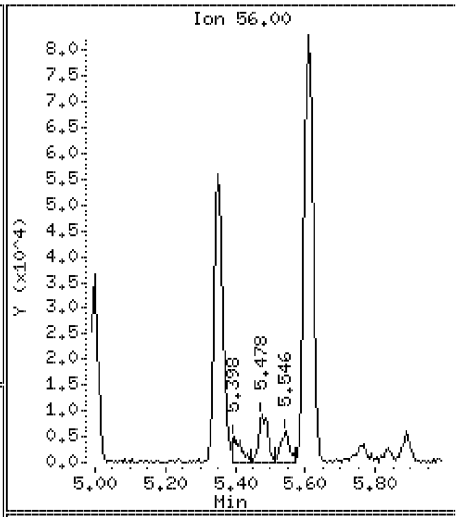
Concentration: 0.244 ppbv

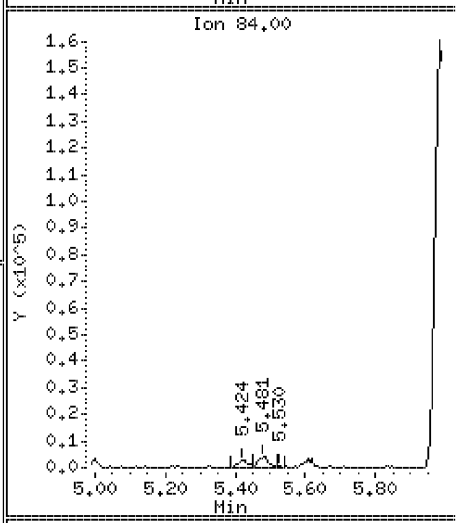


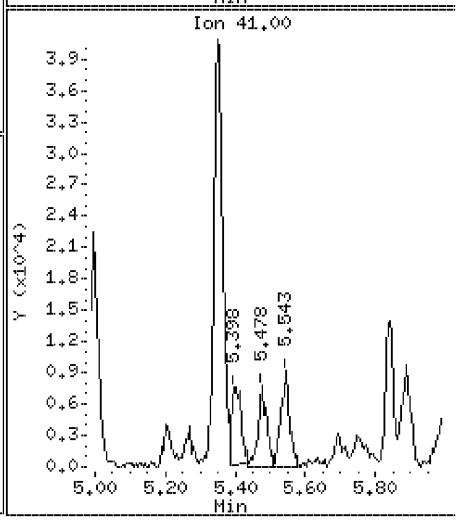












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

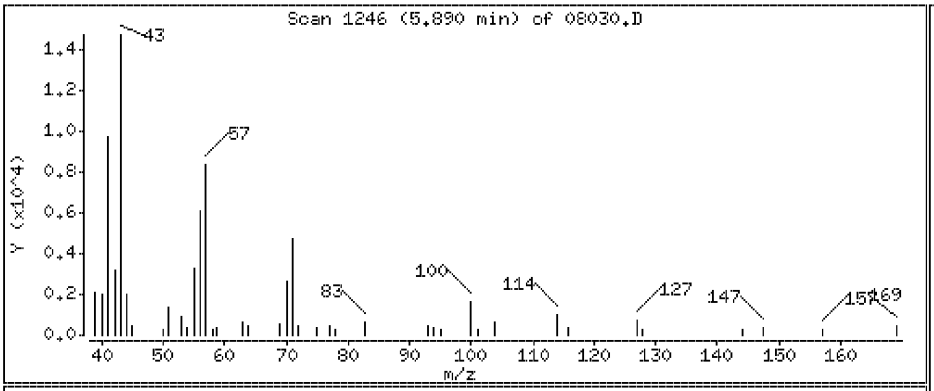
Operator: NCK

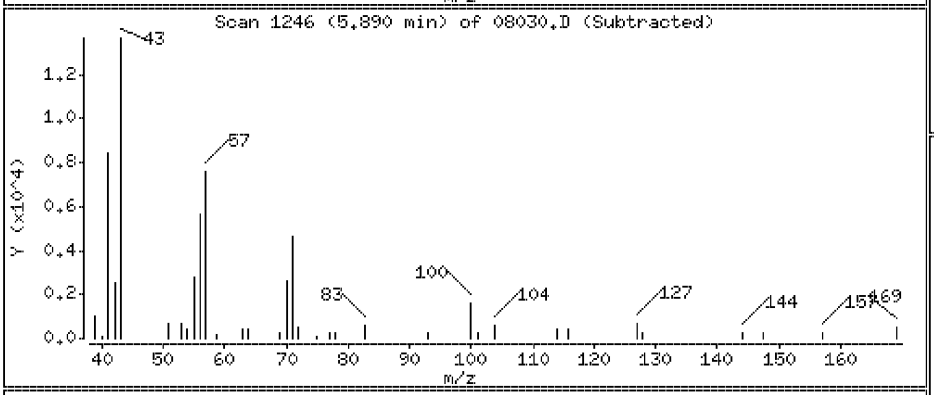
Column phase: J&W DB-5

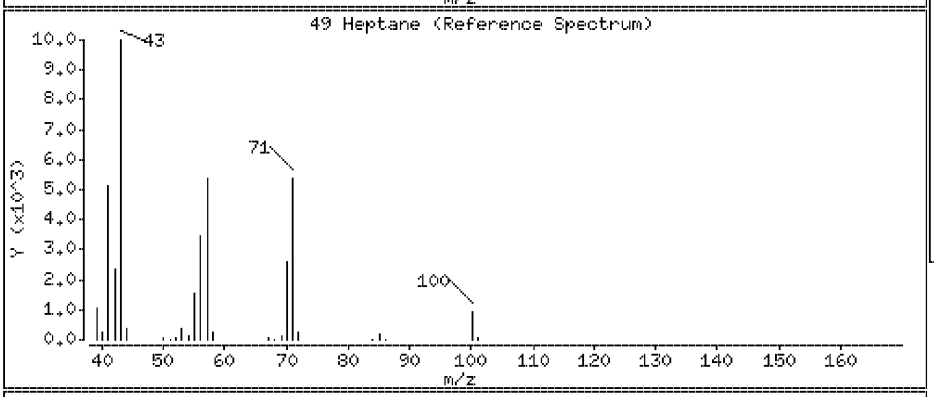
Column diameter: 0.32

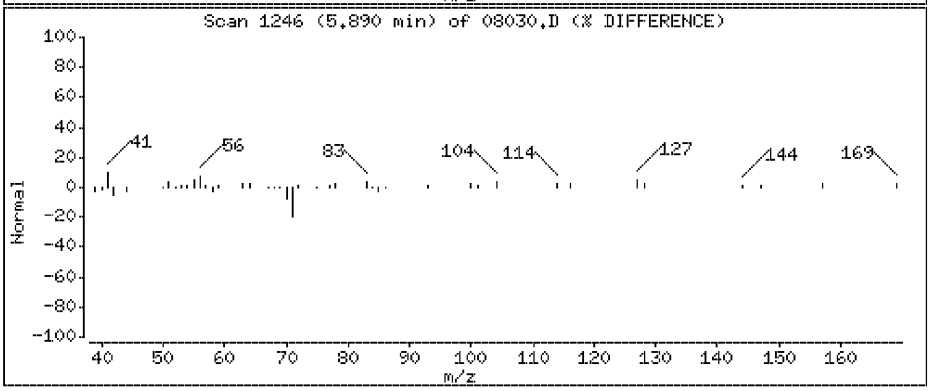
49 Heptane

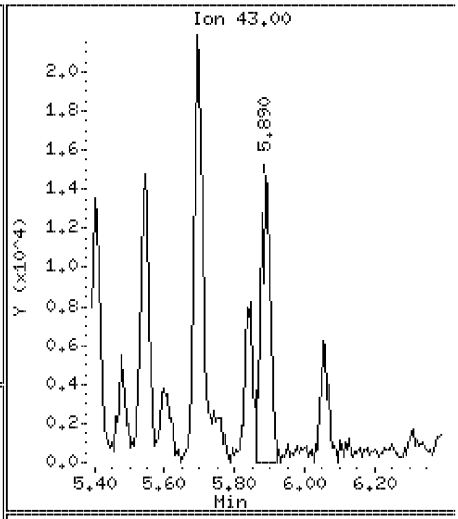
Concentration: 0.348 ppbv

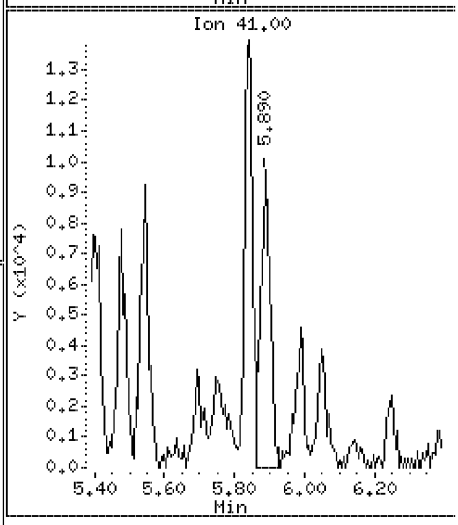












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

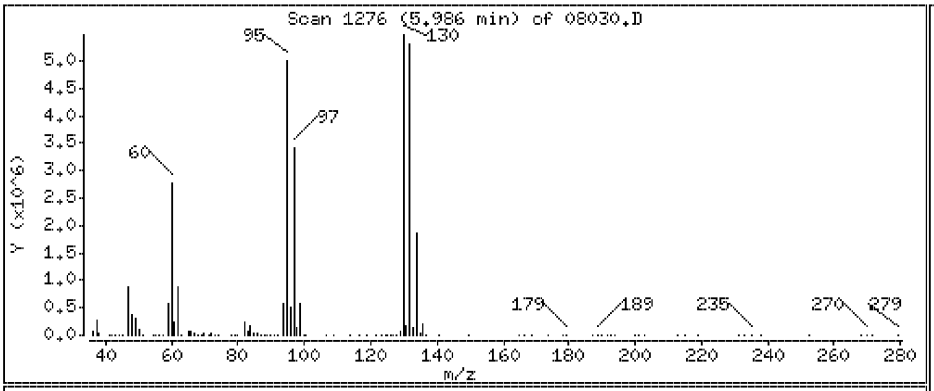
Operator: NCK

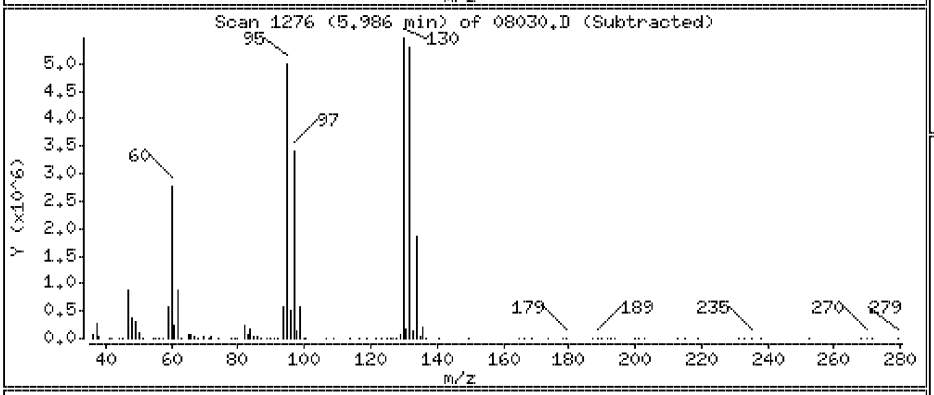
Column phase: J&W DB-5

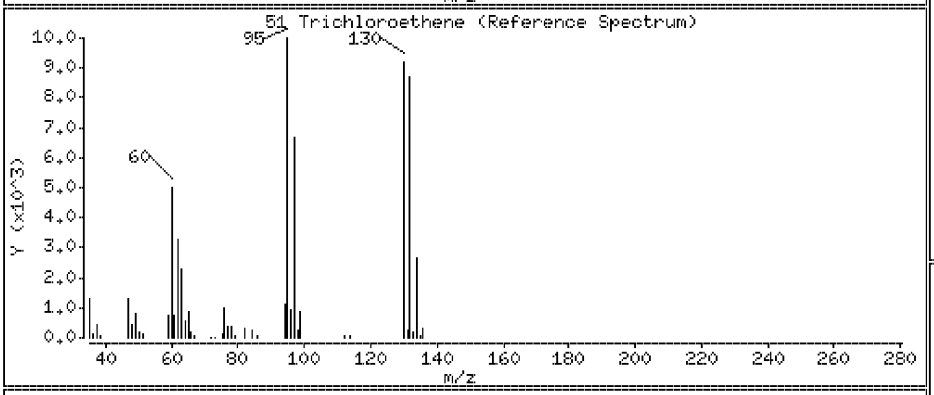
Column diameter: 0.32

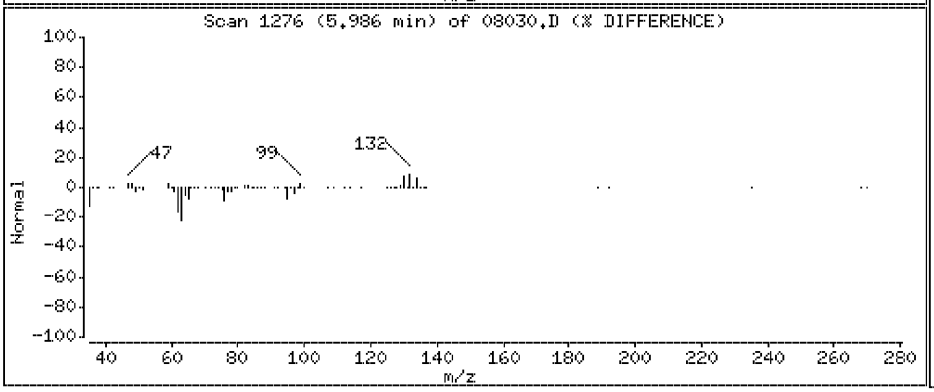
51 Trichloroethene

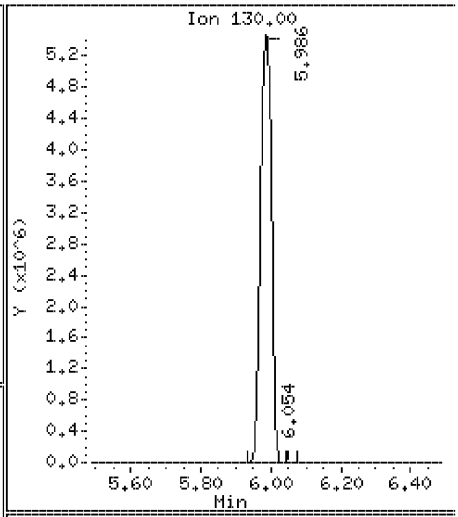
Concentration: 232 ppbv

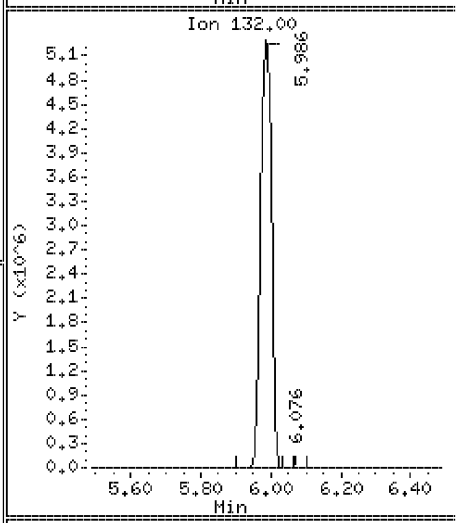


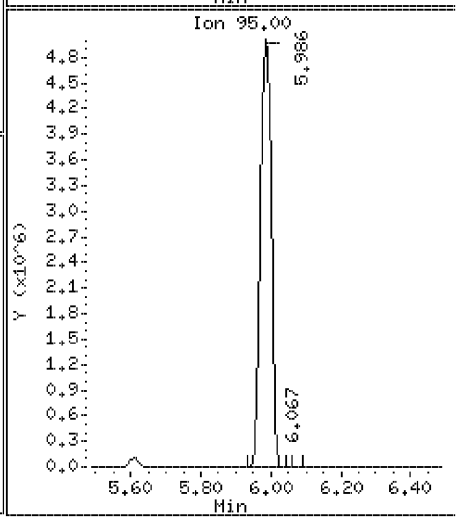












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

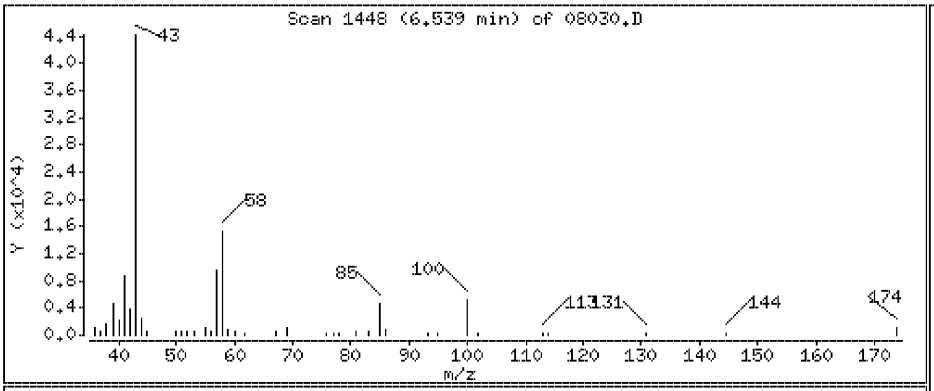
Operator: NCK

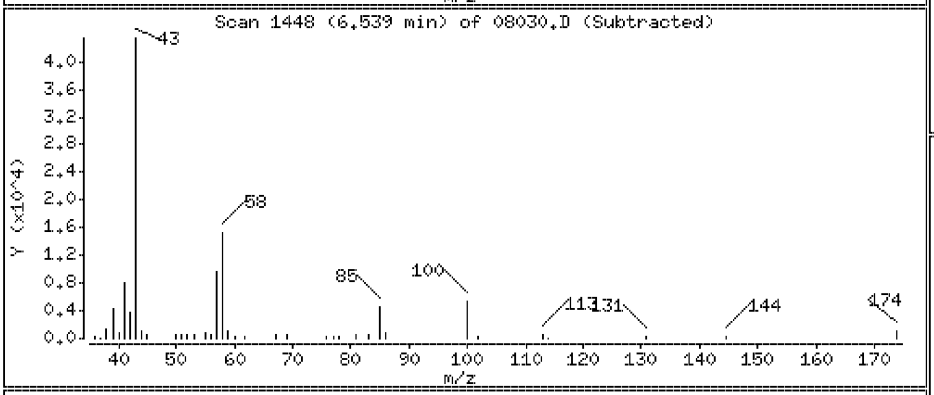
Column phase: J&W DB-5

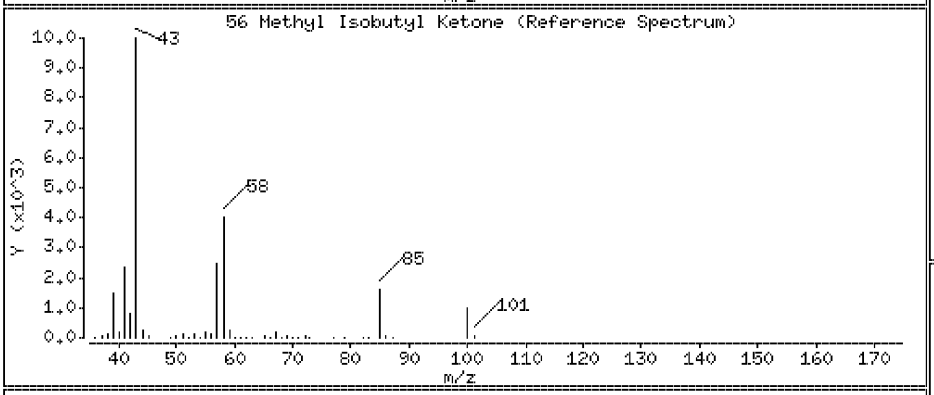
Column diameter: 0.32

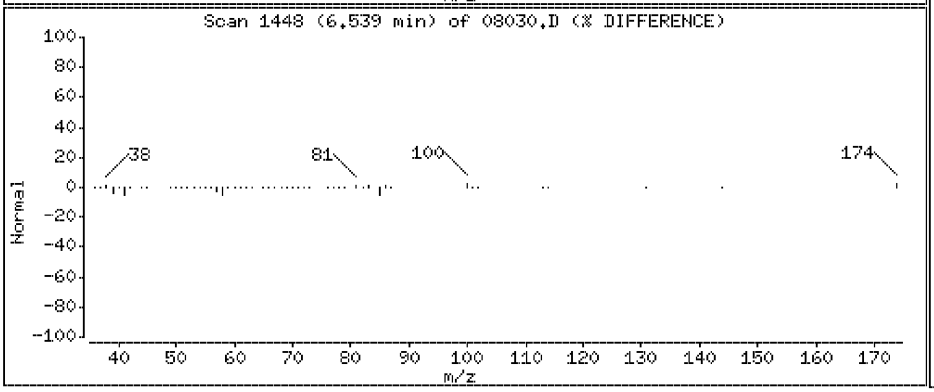
56 Methyl Isobutyl Ketone

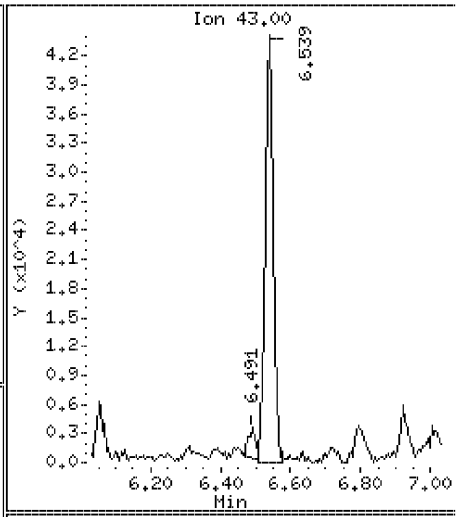
Concentration: 0.676 ppbv

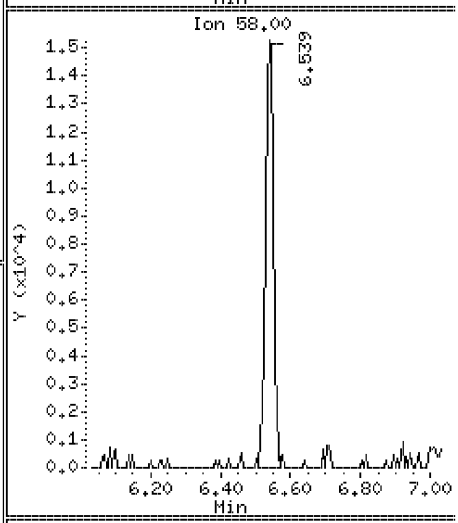


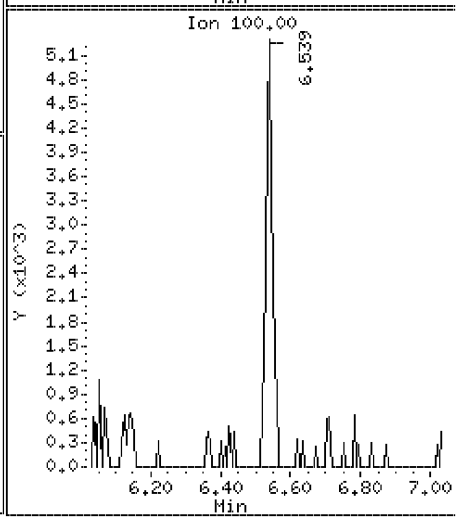












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

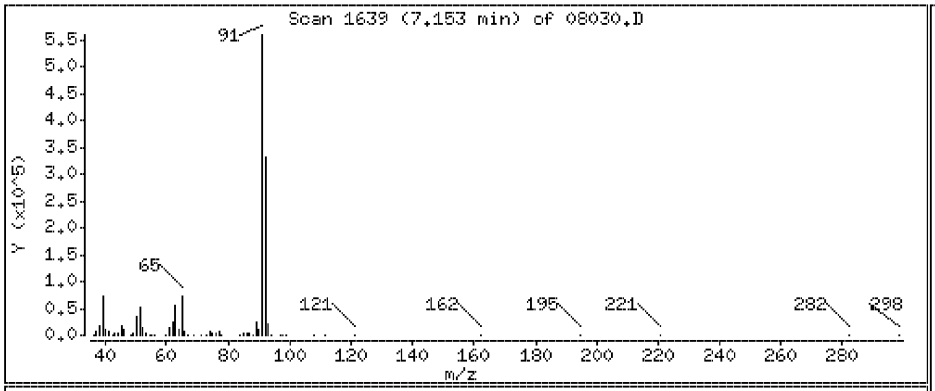
Operator: NCK

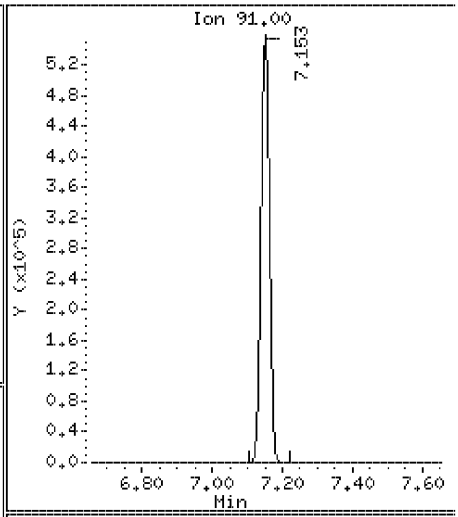
Column phase: J&W DB-5

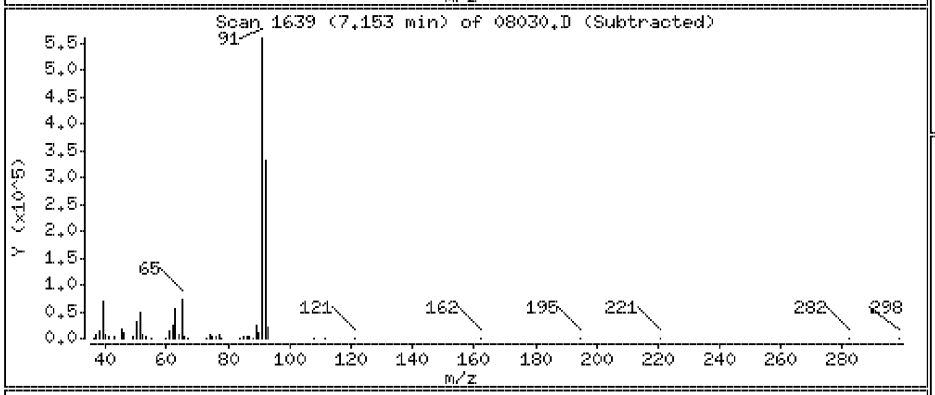
Column diameter: 0.32

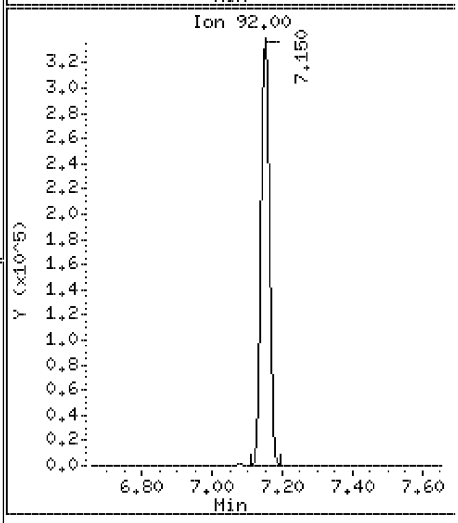
61 Toluene

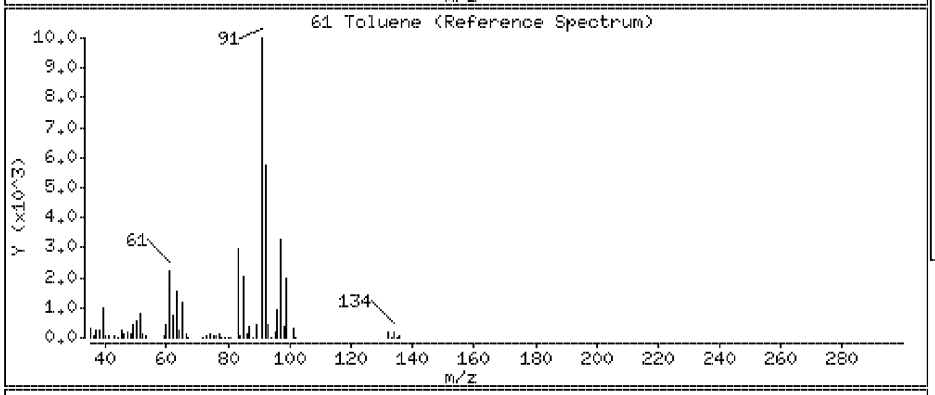
Concentration: 7.17 ppbv

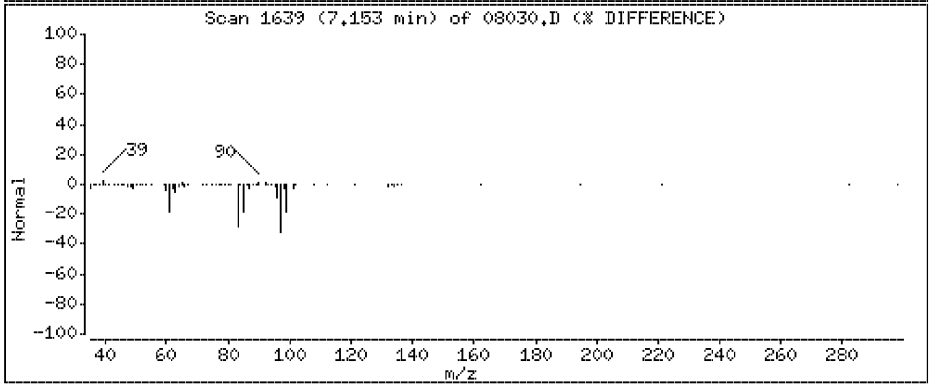












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

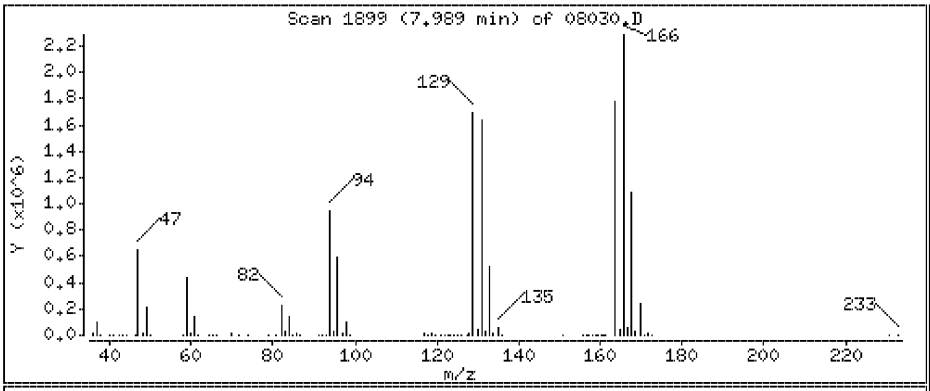
Operator: NCK

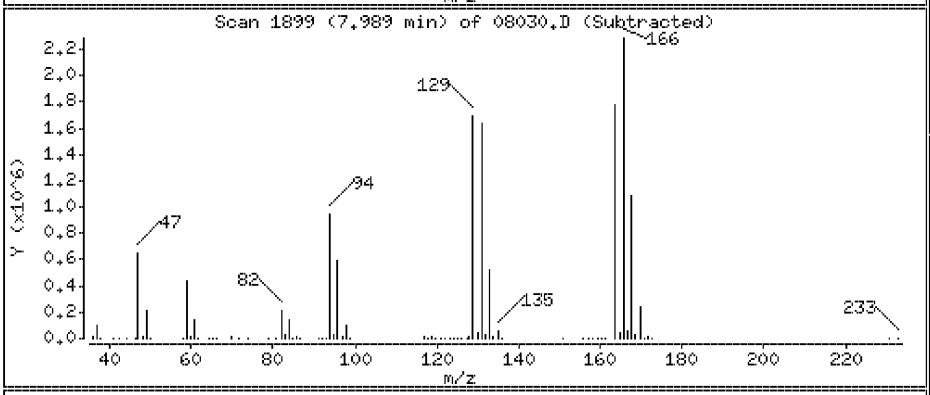
Column phase: J&W DB-5

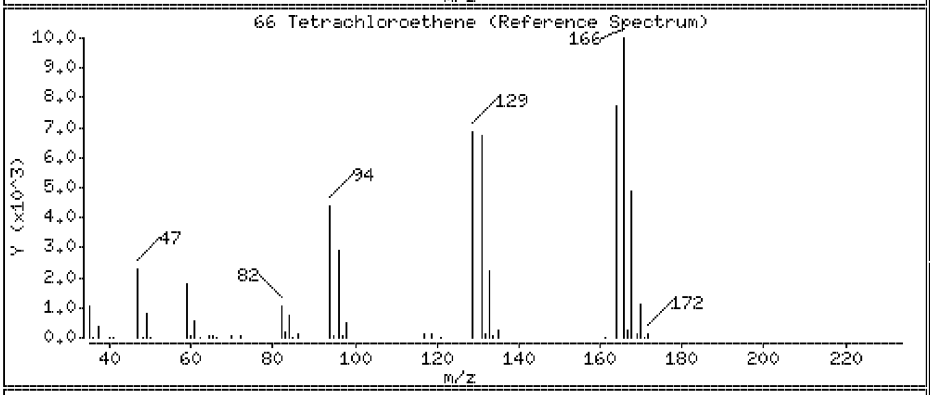
Column diameter: 0.32

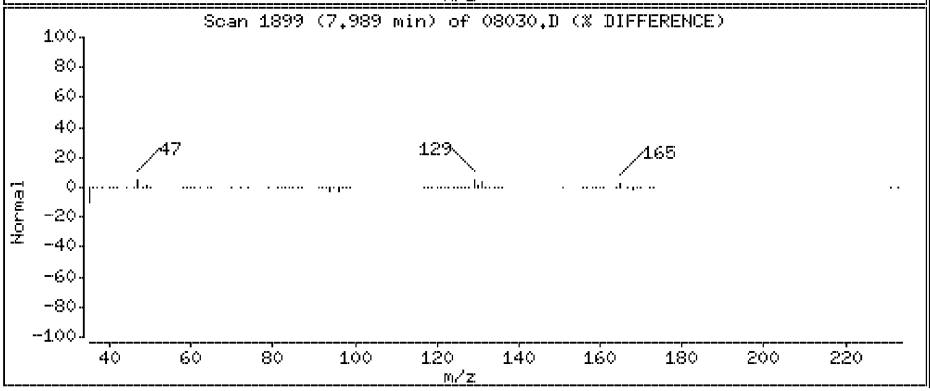
66 Tetrachloroethene

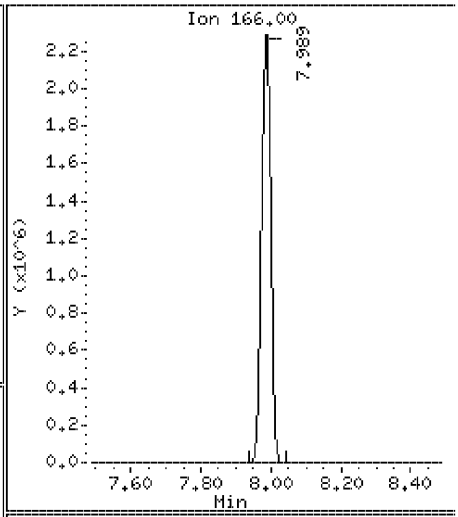
Concentration: 75.8 ppbv

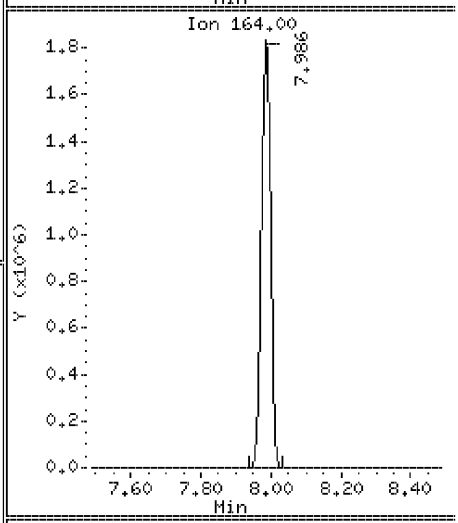


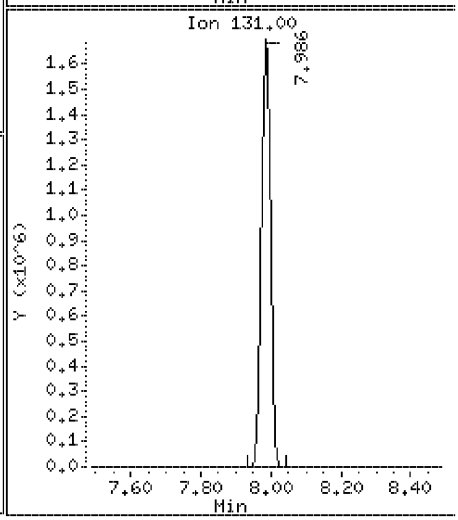












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

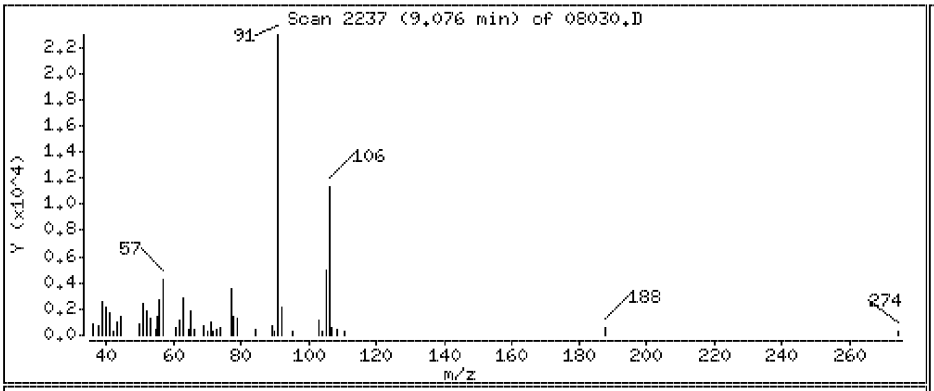
Operator: NCK

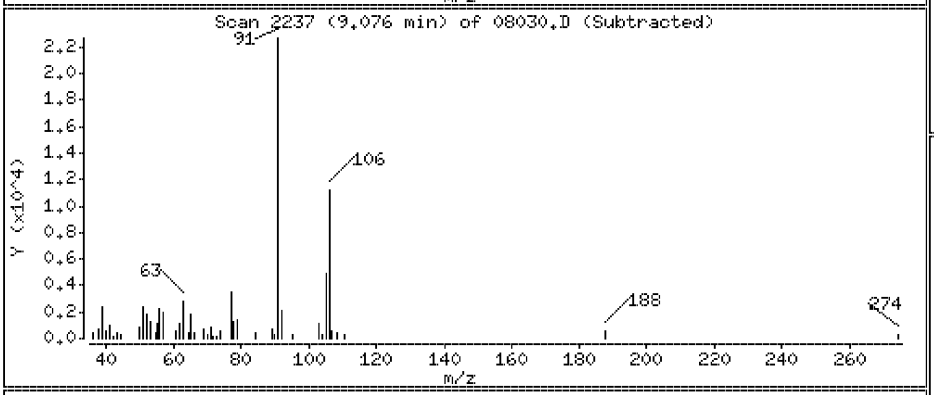
Column phase: J&W DB-5

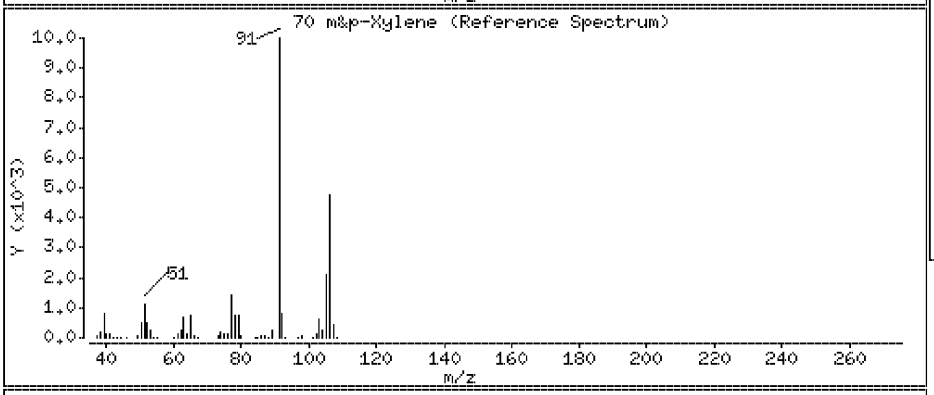
Column diameter: 0.32

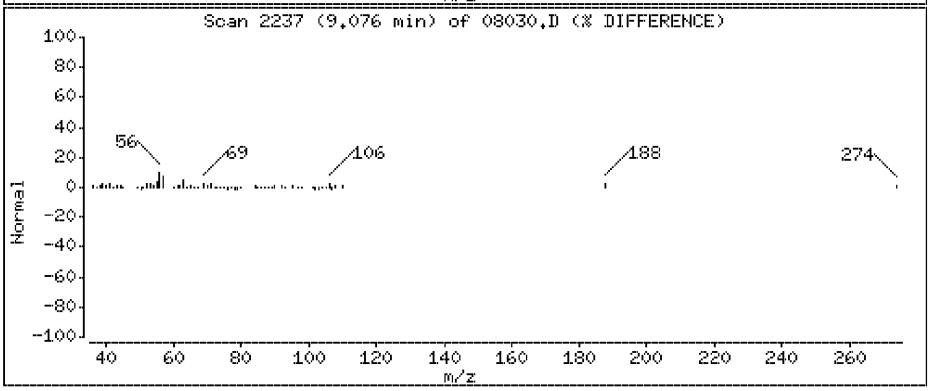
70 m&p-Xylene

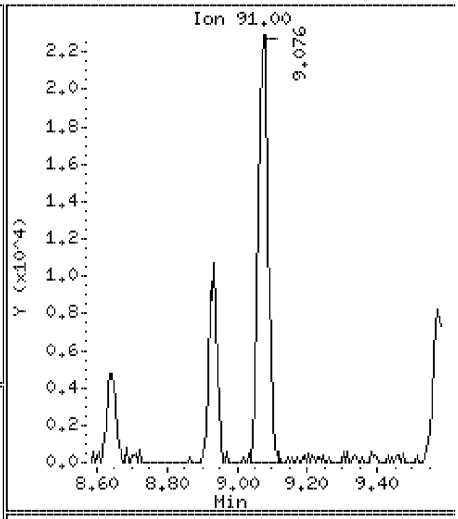
Concentration: 0.617 ppbv

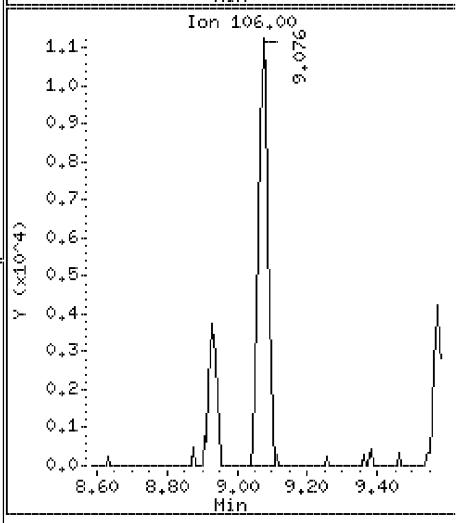












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

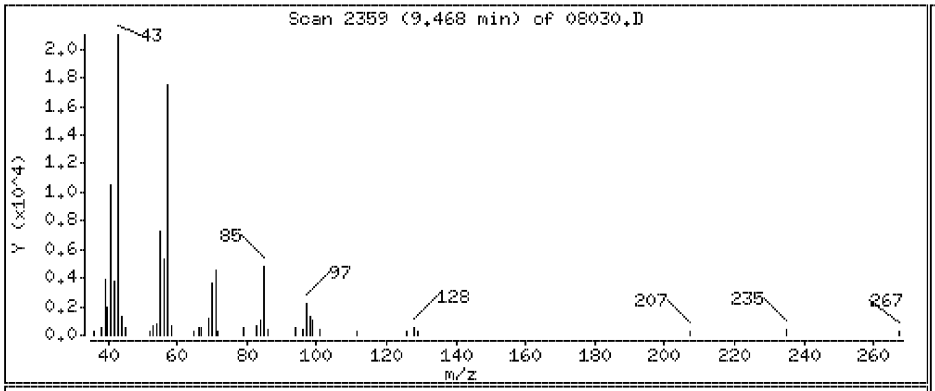
Operator: NCK

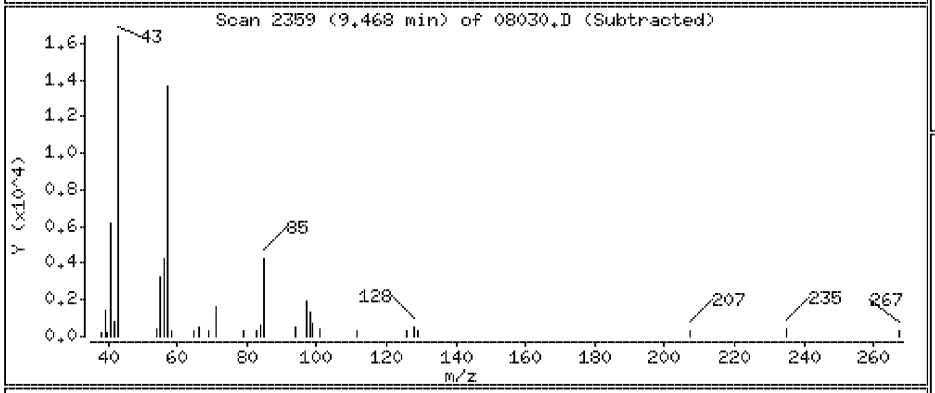
Column phase: J&W DB-5

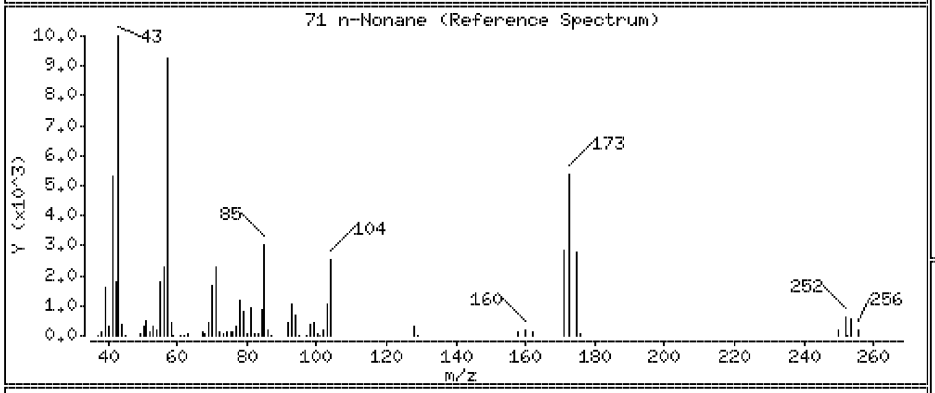
Column diameter: 0.32

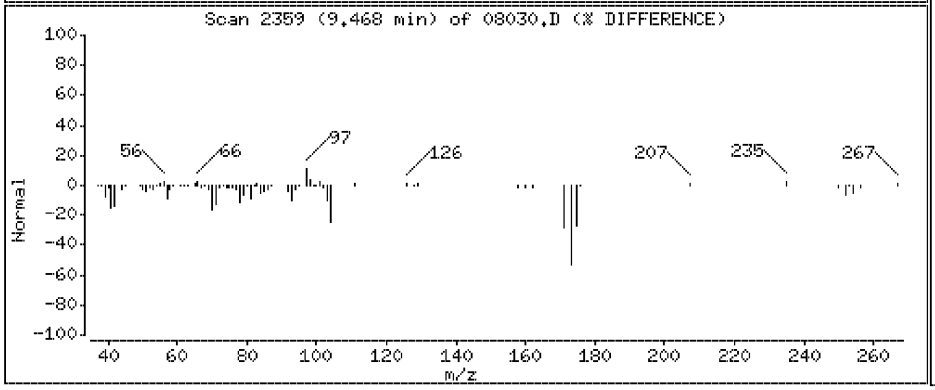
71 n-Nonane

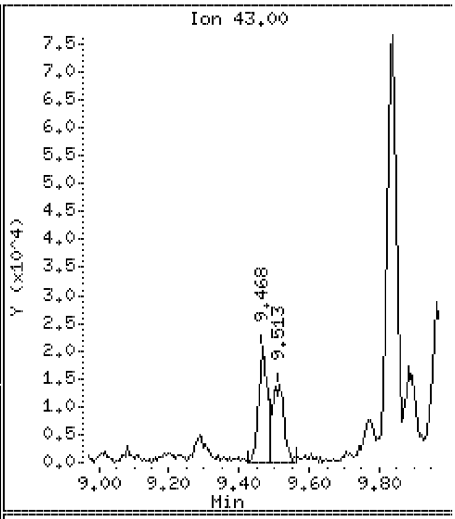
Concentration: 0.492 ppbv

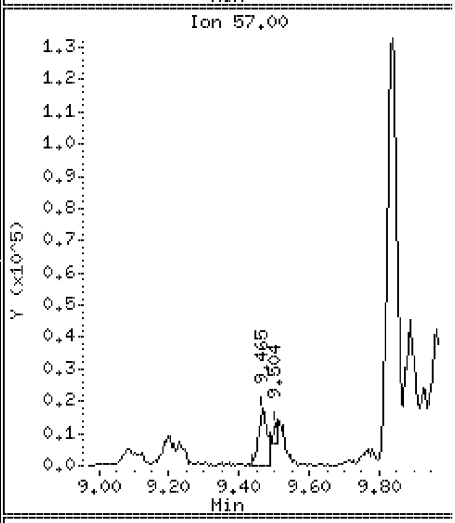


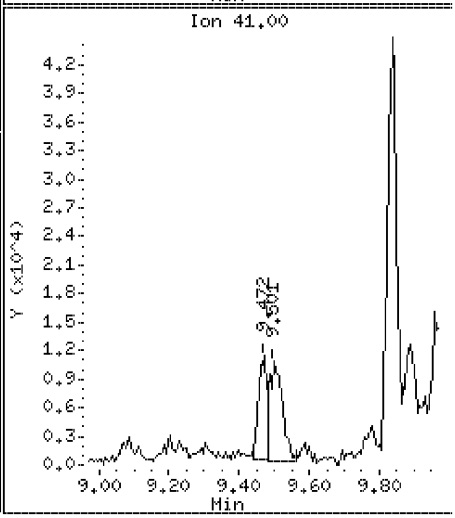












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

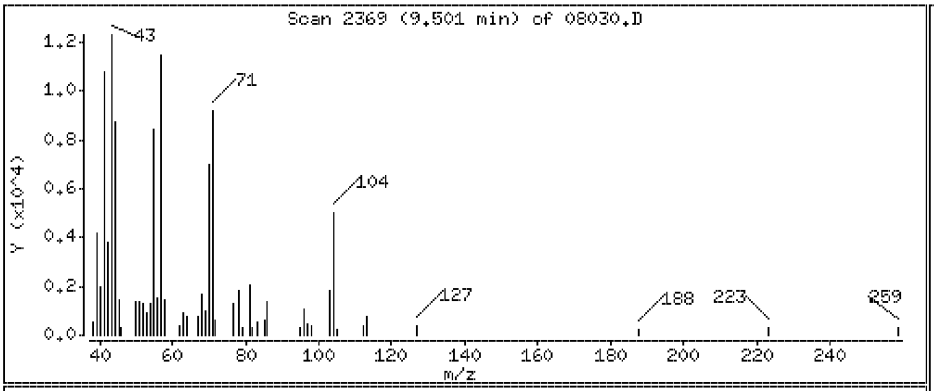
Operator: NCK

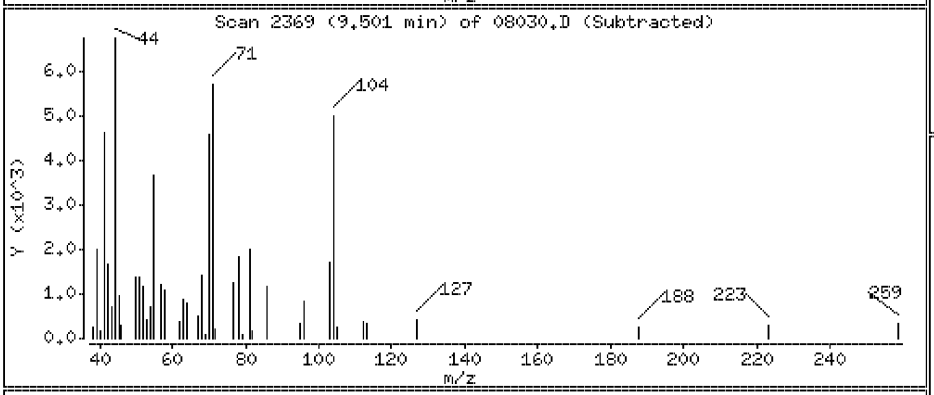
Column phase: J&W DB-5

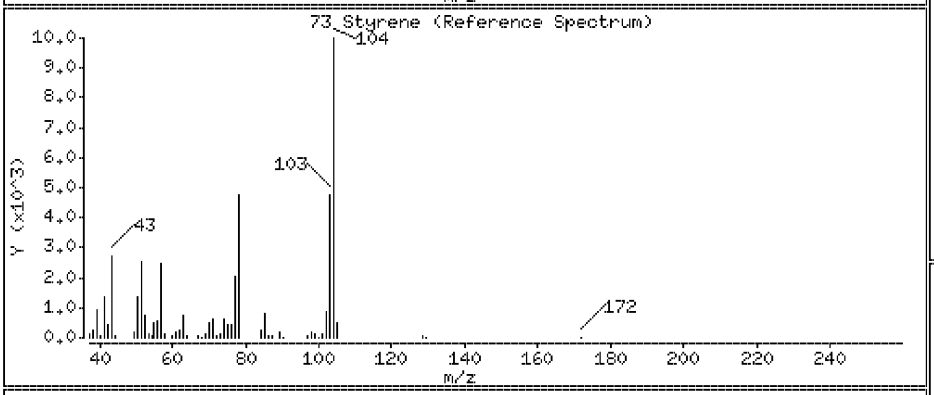
Column diameter: 0.32

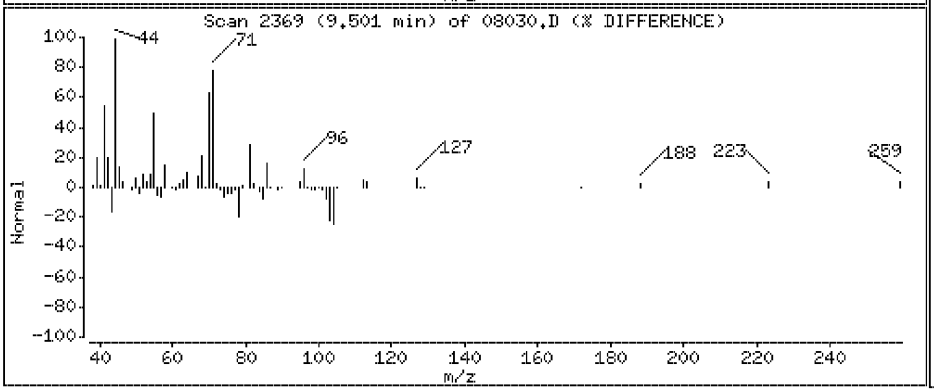
73 Styrene

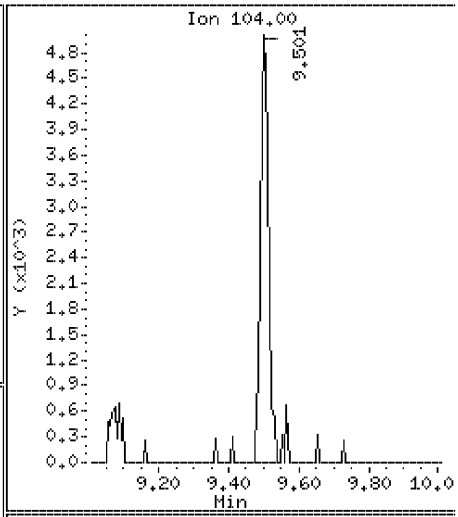
Concentration: 0.297 ppbv

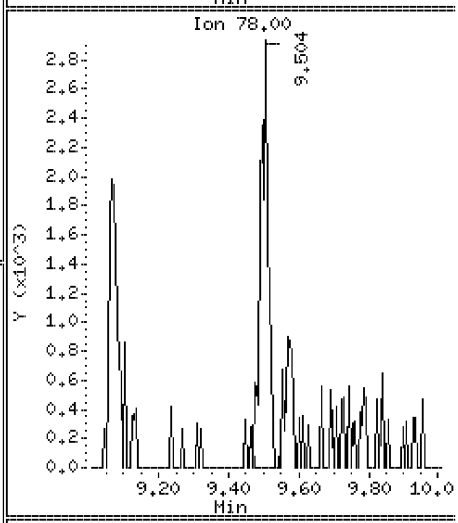


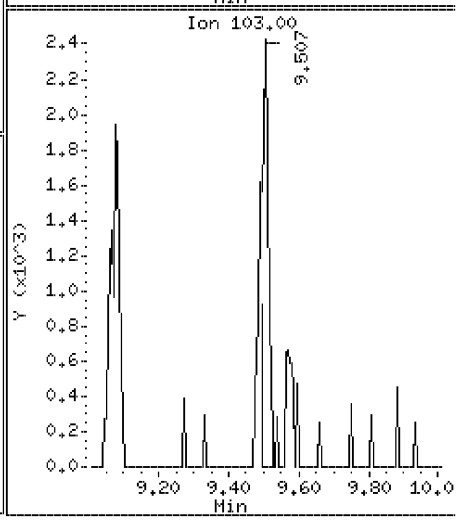












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

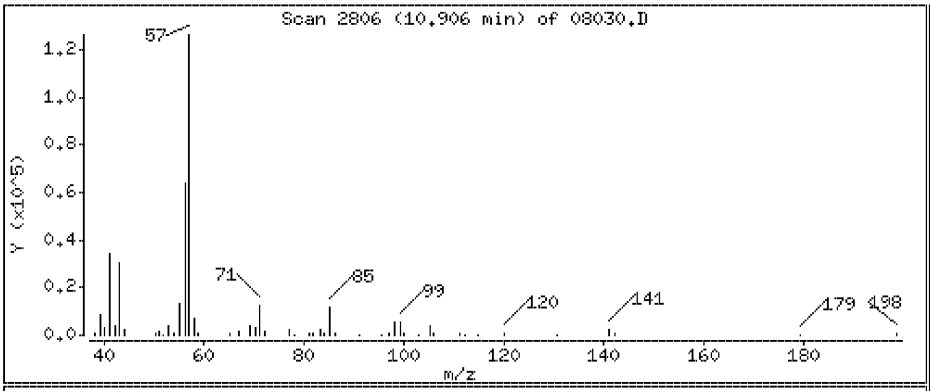
Operator: NCK

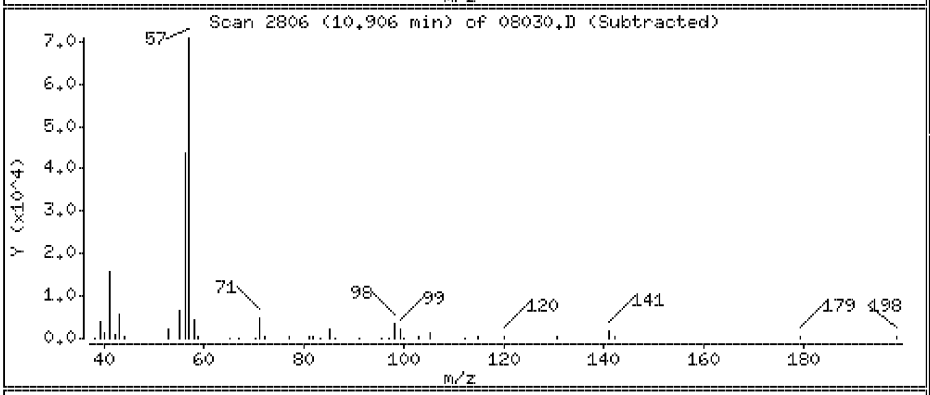
Column phase: J&W DB-5

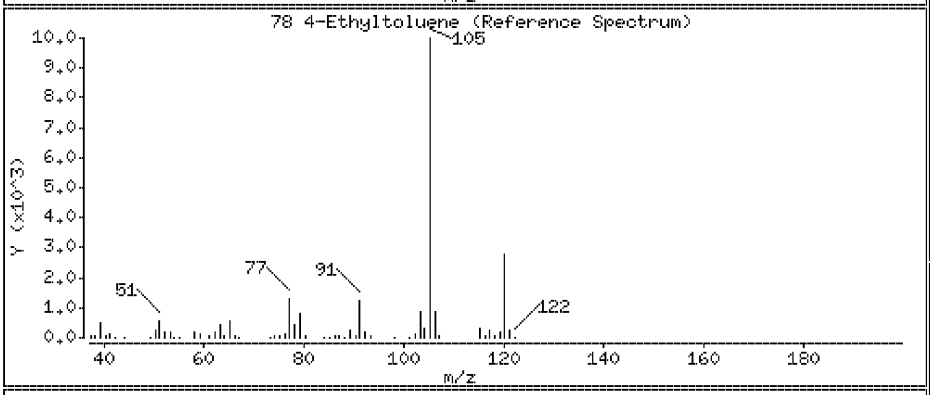
Column diameter: 0.32

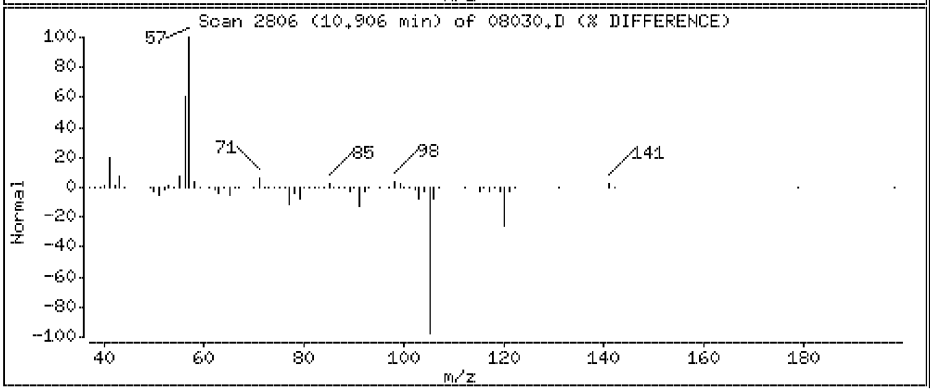
78 4-Ethyltoluene

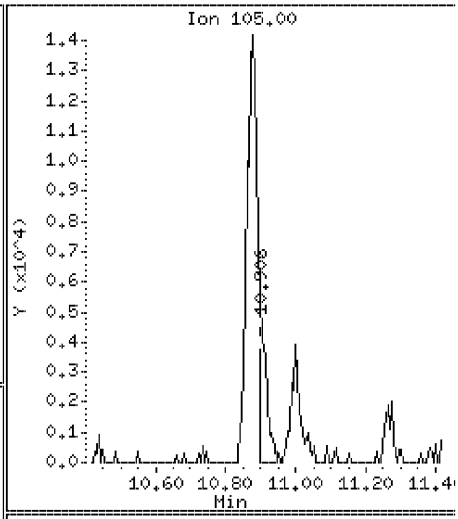
Concentration: 0.301 ppbv

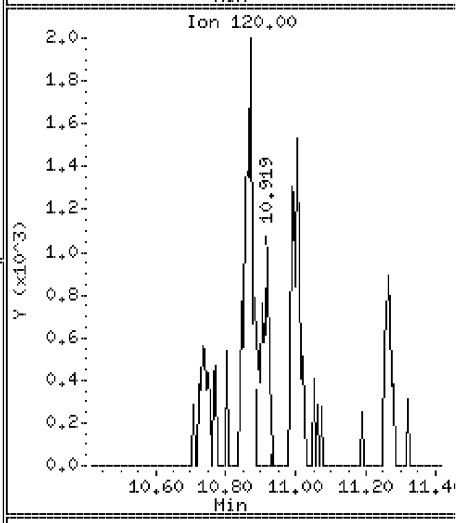


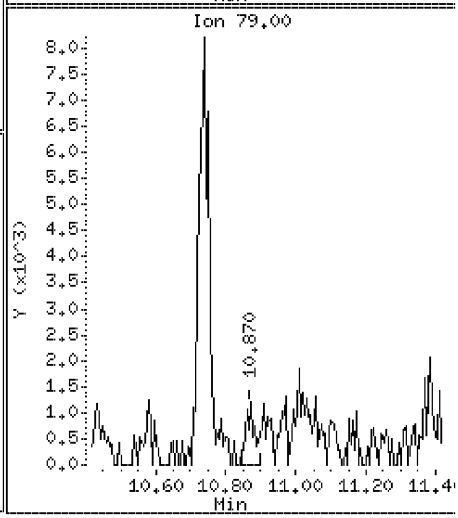












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

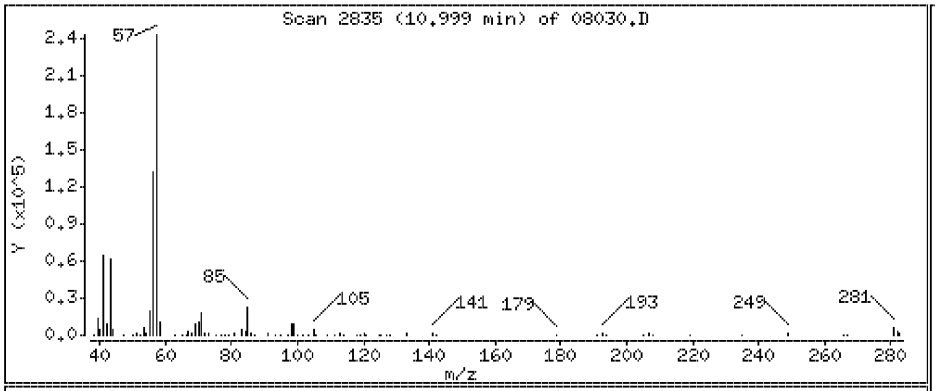
Operator: NCK

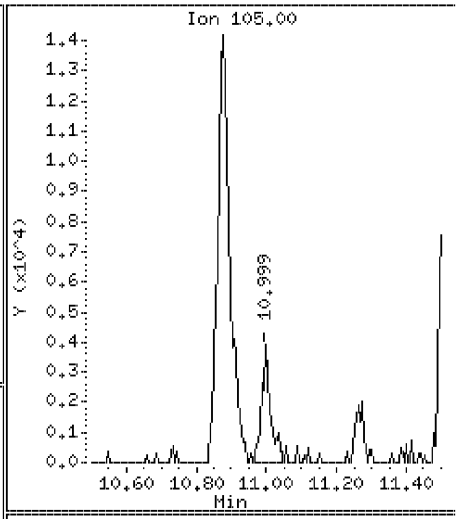
Column phase: J&W DB-5

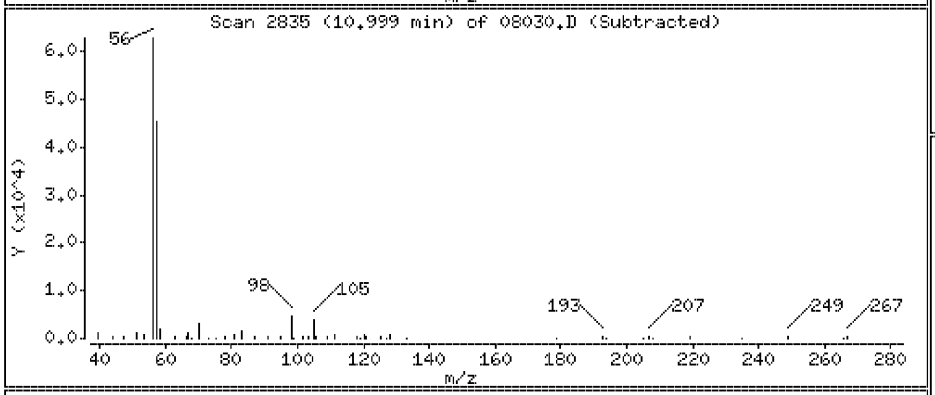
Column diameter: 0.32

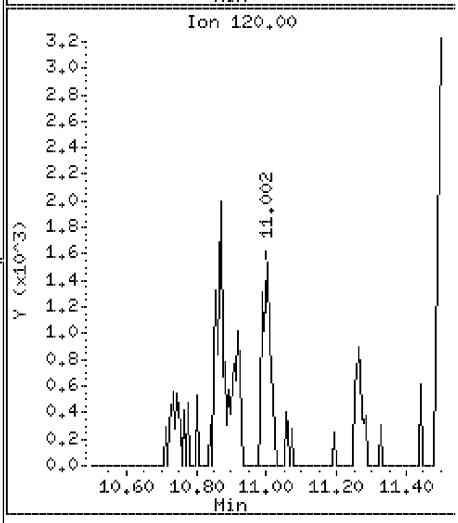
79 1,3,5-Trimethylbenzene

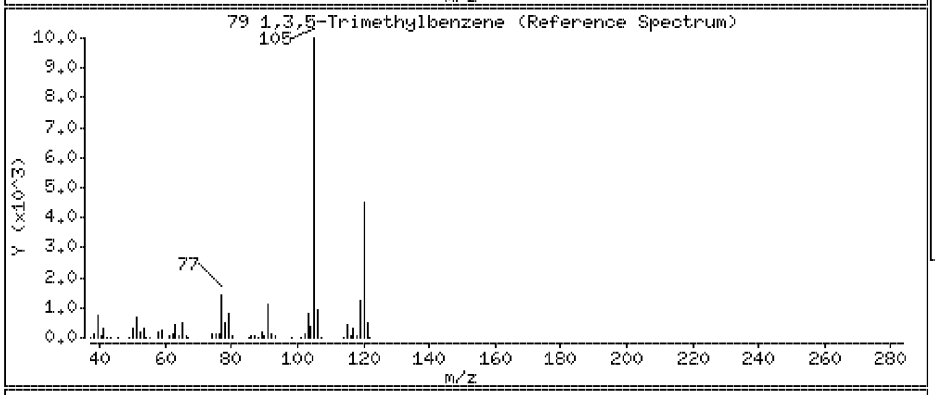
Concentration: 0.281 ppbv

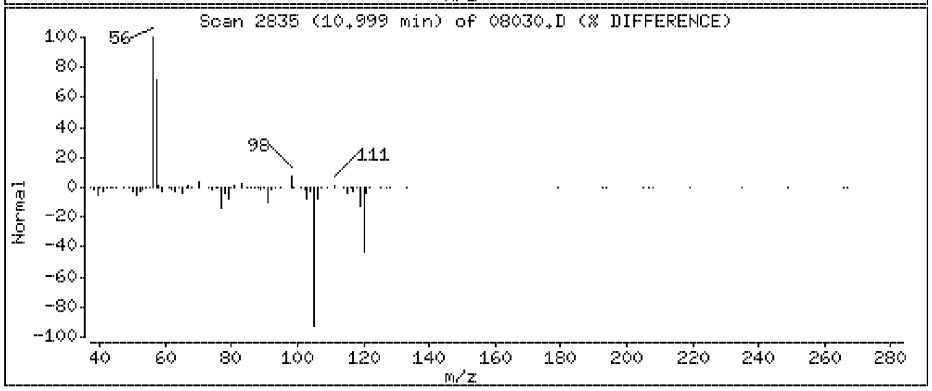












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

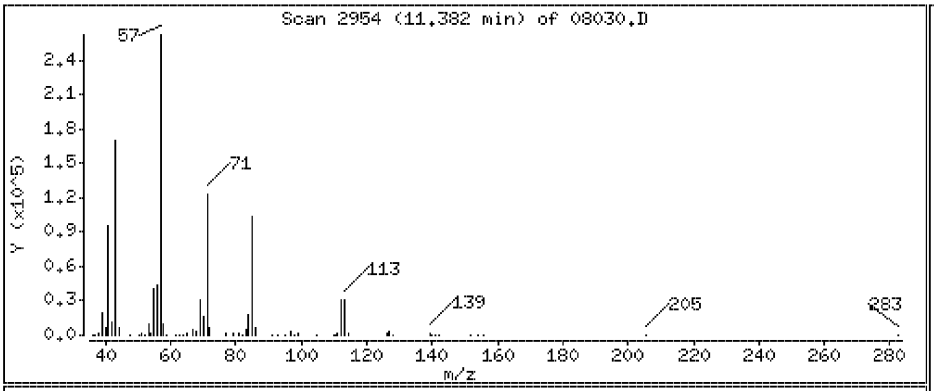
Operator: NCK

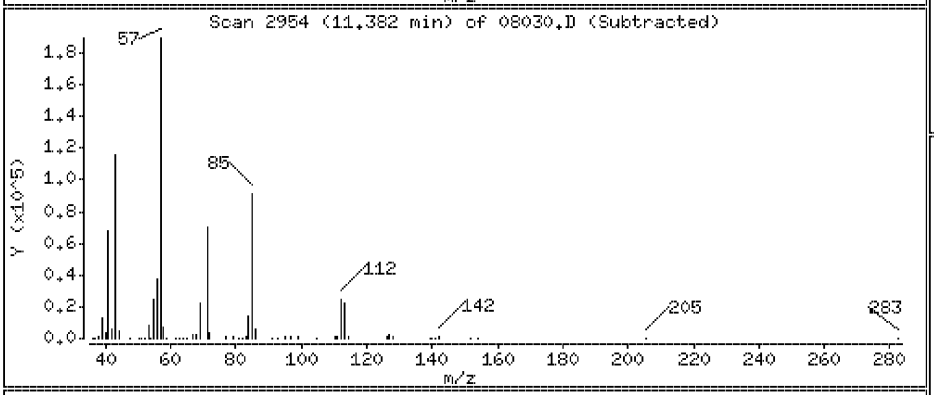
Column phase: J&W DB-5

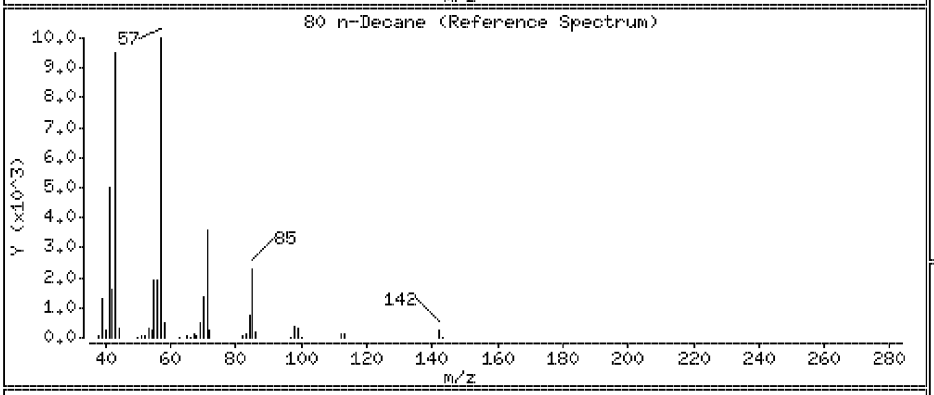
Column diameter: 0.32

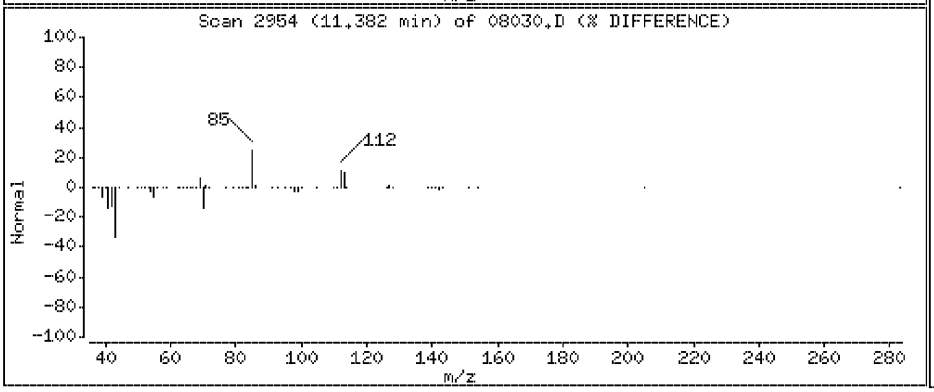
80 n-Decane

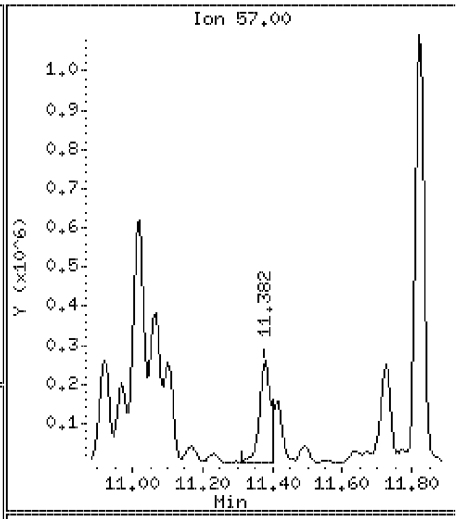
Concentration: 7.20 ppbv

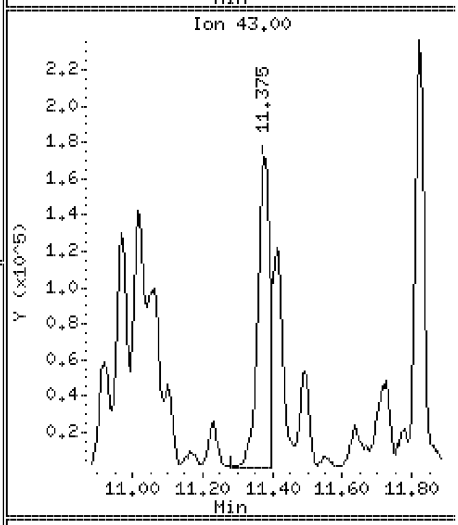


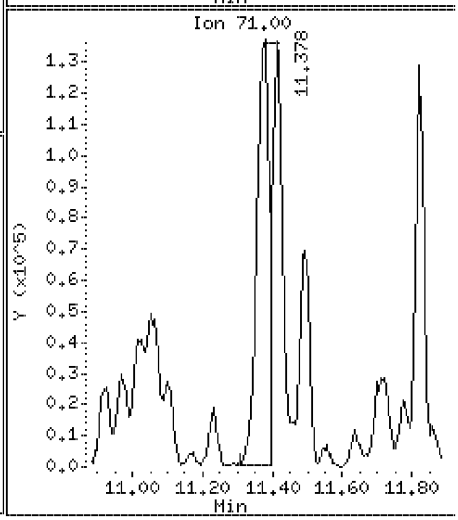












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

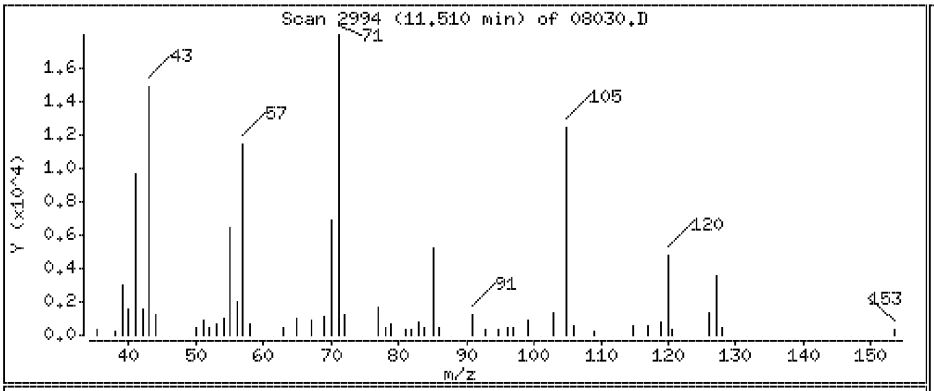
Operator: NCK

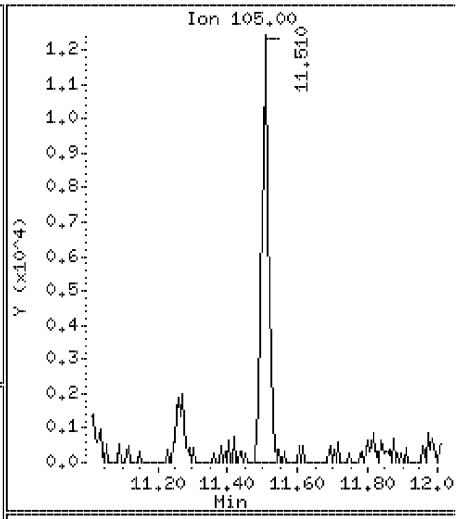
Column phase: J&W DB-5

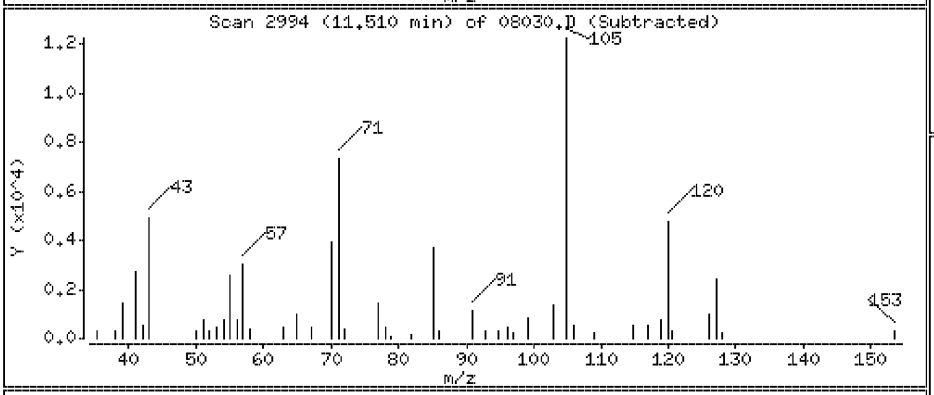
Column diameter: 0.32

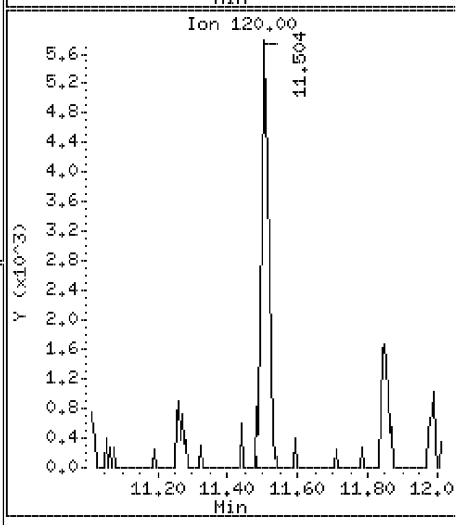
82 1,2,4-Trimethylbenzene

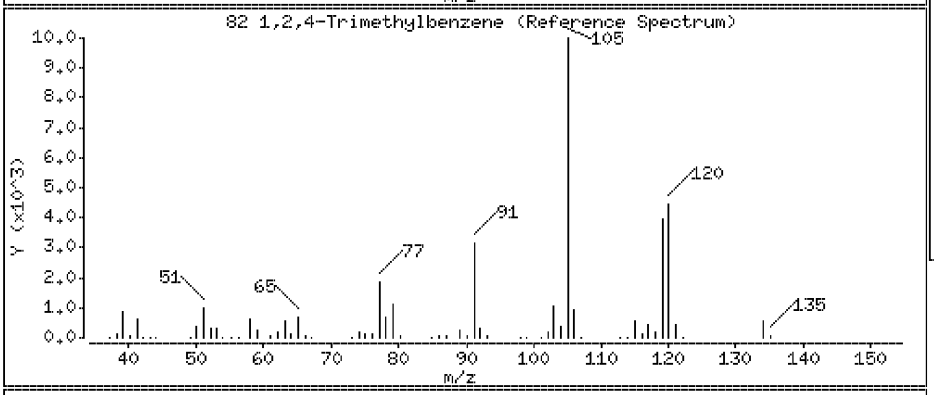
Concentration: 0.339 ppbv

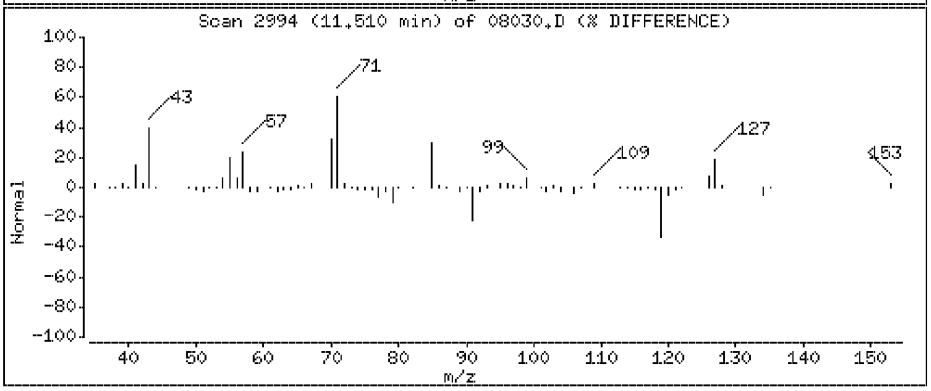












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

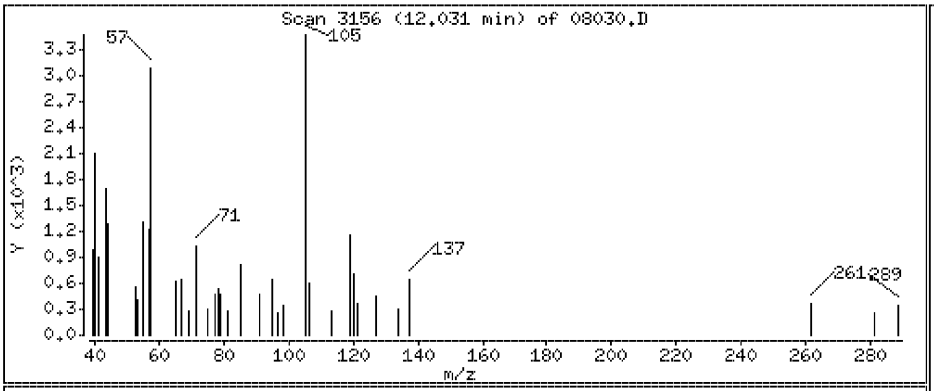
Operator: NCK

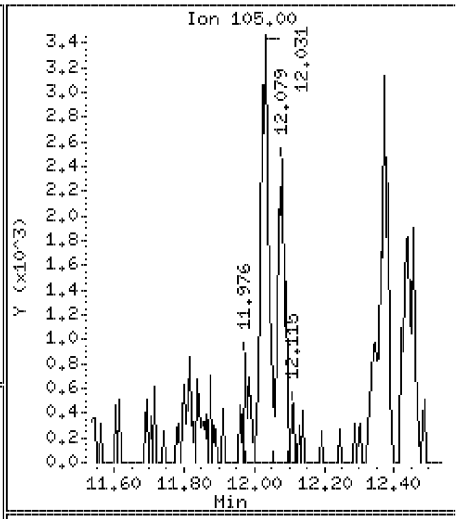
Column phase: J&W DB-5

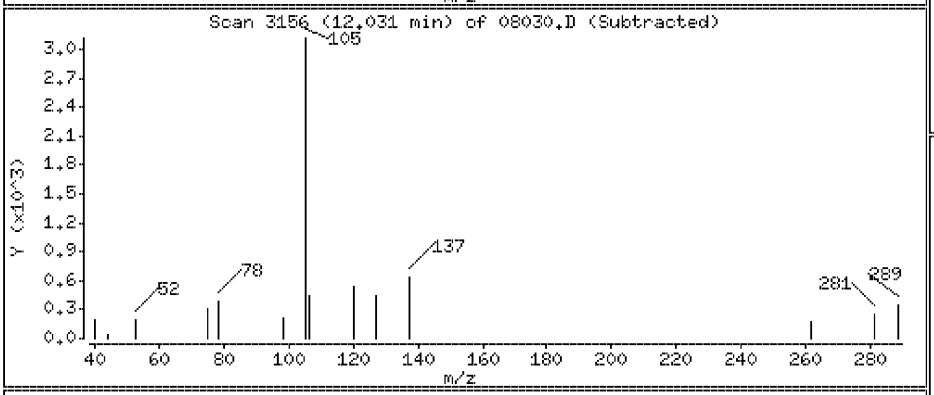
Column diameter: 0.32

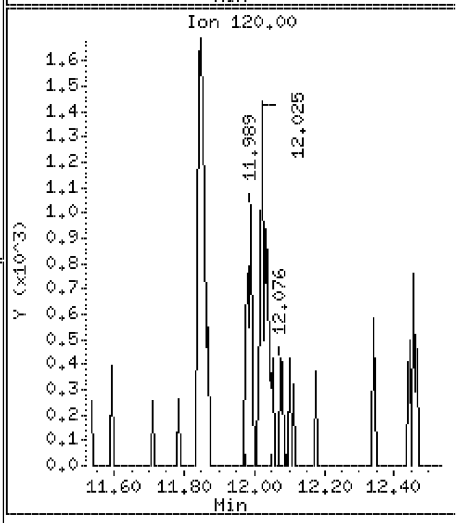
89 1,2,3-Trimethylbenzene

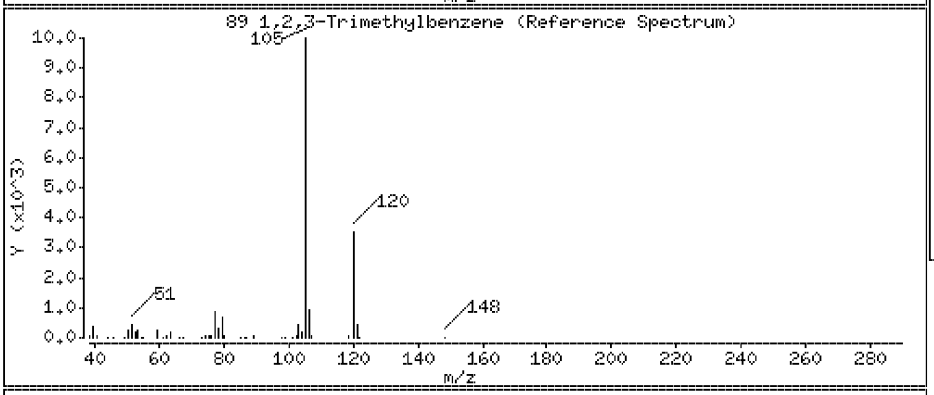
Concentration: 0.288 ppbv

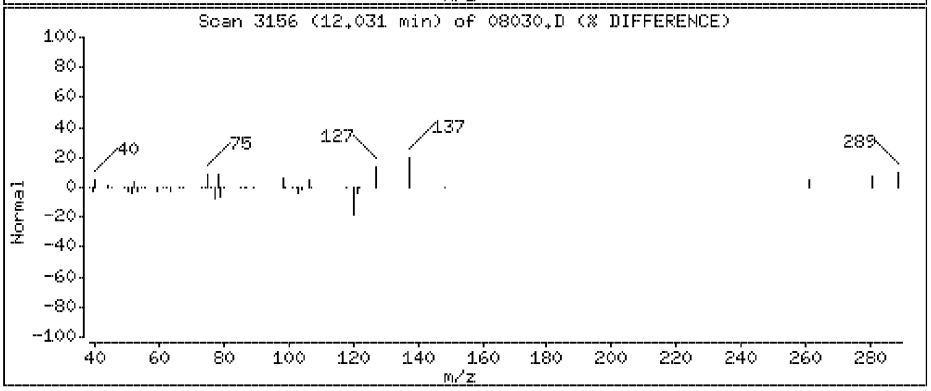












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08030.D

Date : 21-MAR-2017 23:39

Client ID:

Instrument: 10airB.i

Sample Info:

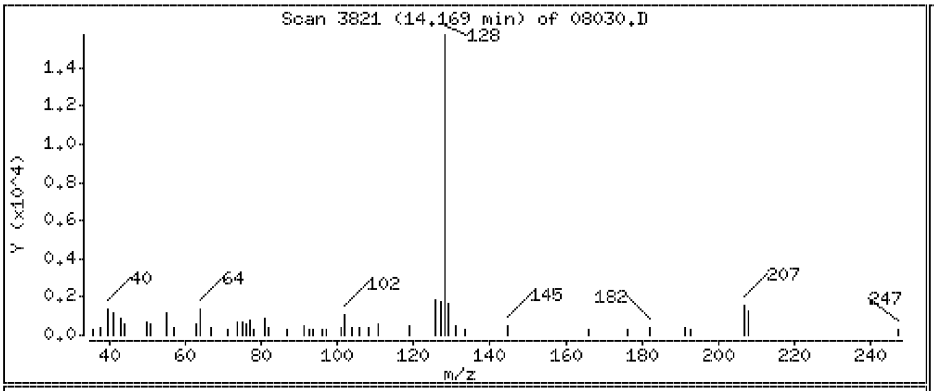
Operator: NCK

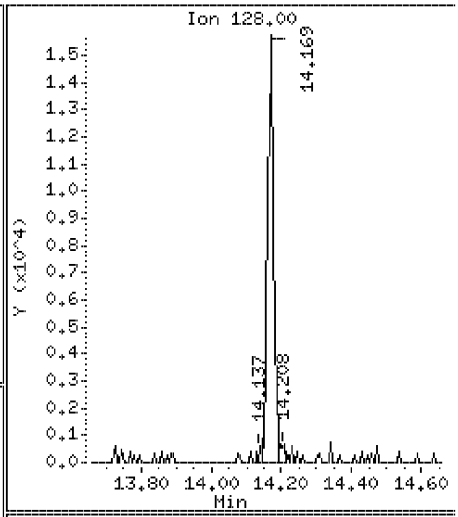
Column phase: J&W DB-5

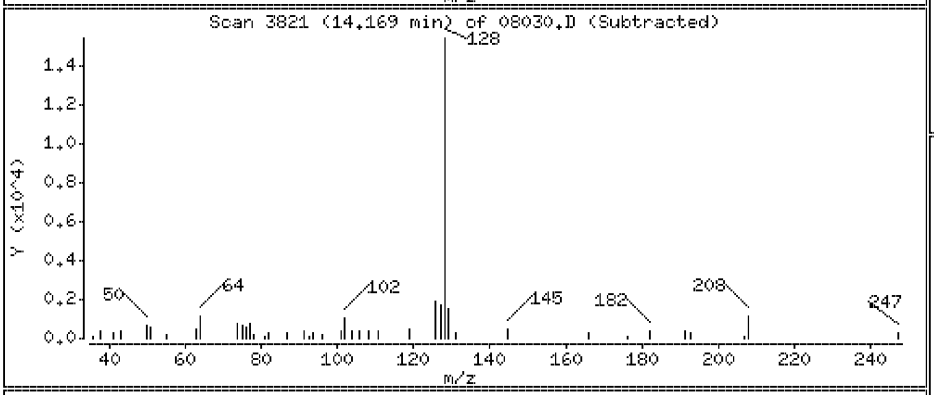
Column diameter: 0.32

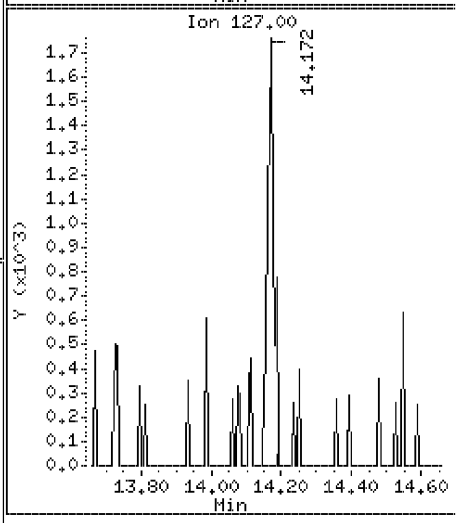
94 Naphthalene

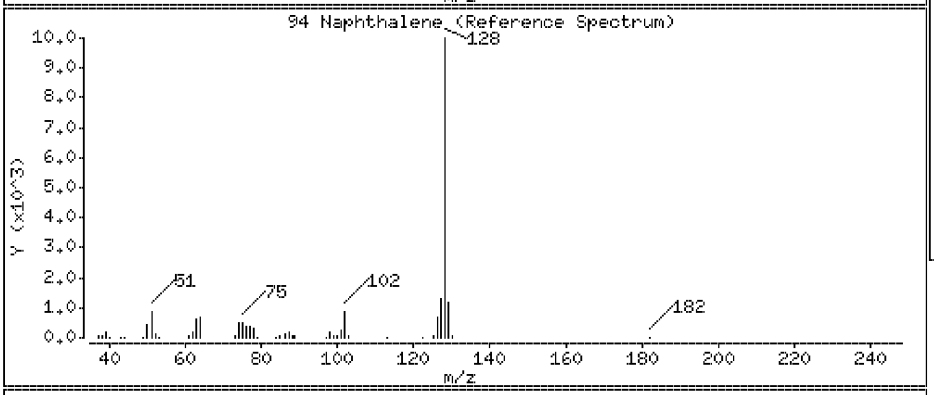
Concentration: 0.965 ppbv

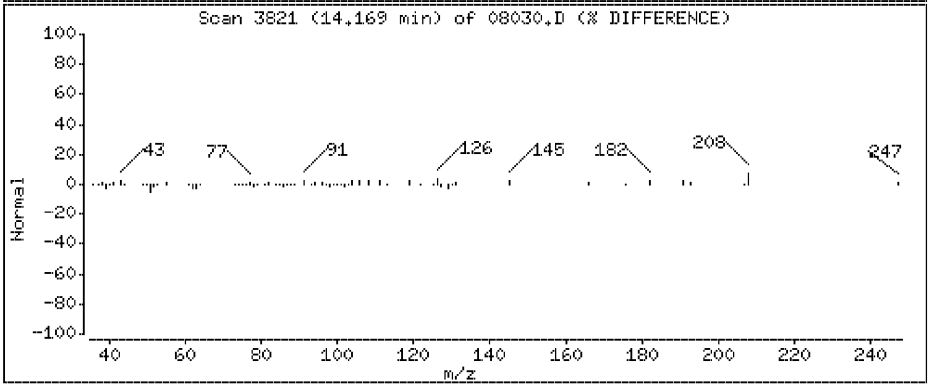






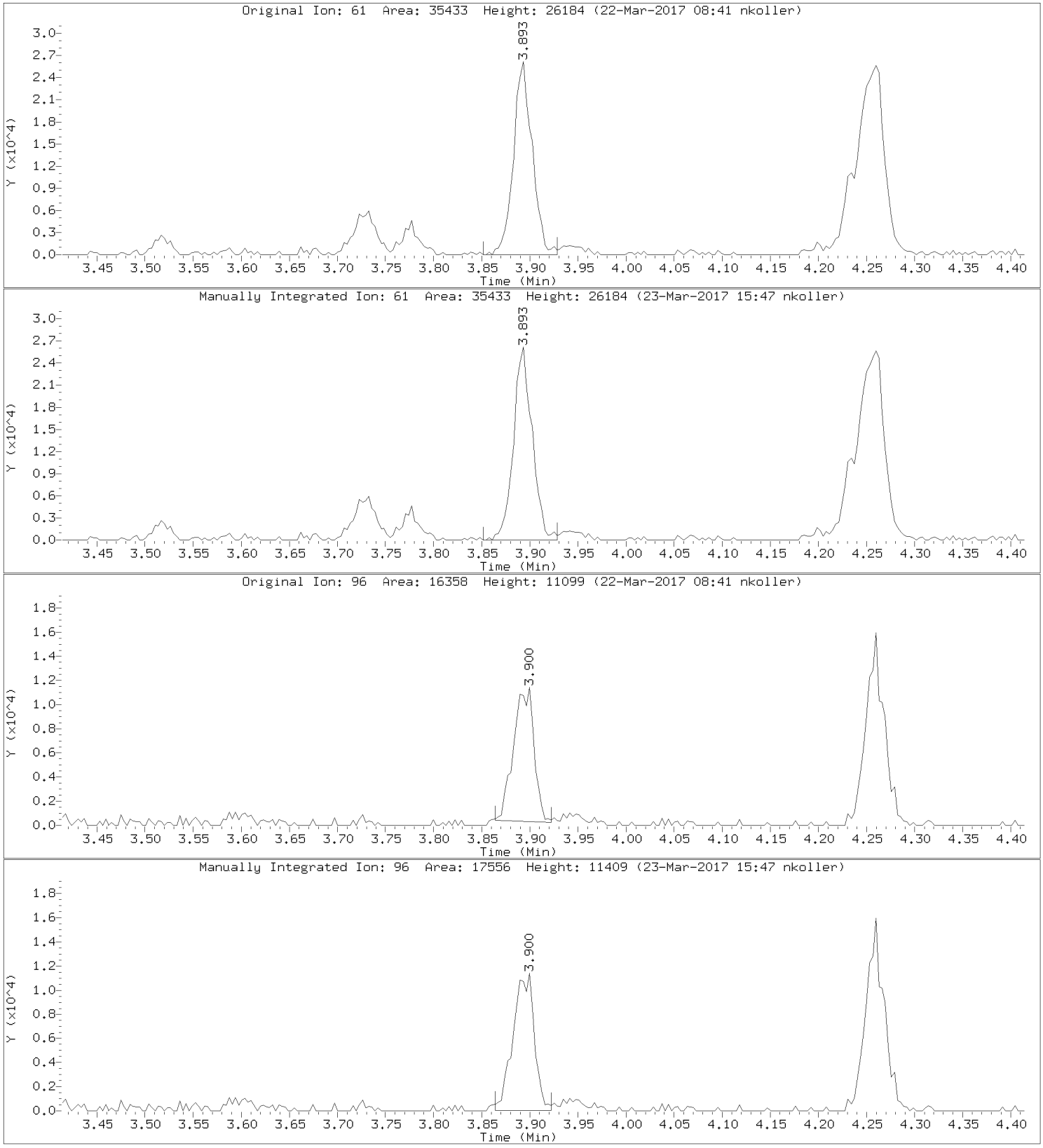






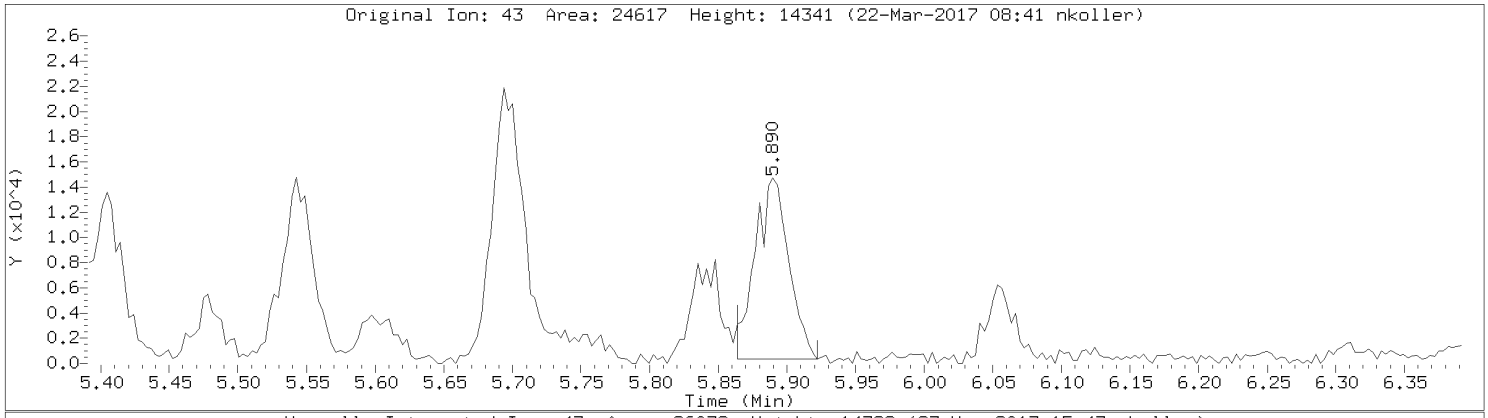
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08030.D
Injection Date: 21-MAR-2017 23:39
Instrument: 10airB.i
Lab Sample ID: 10381035018

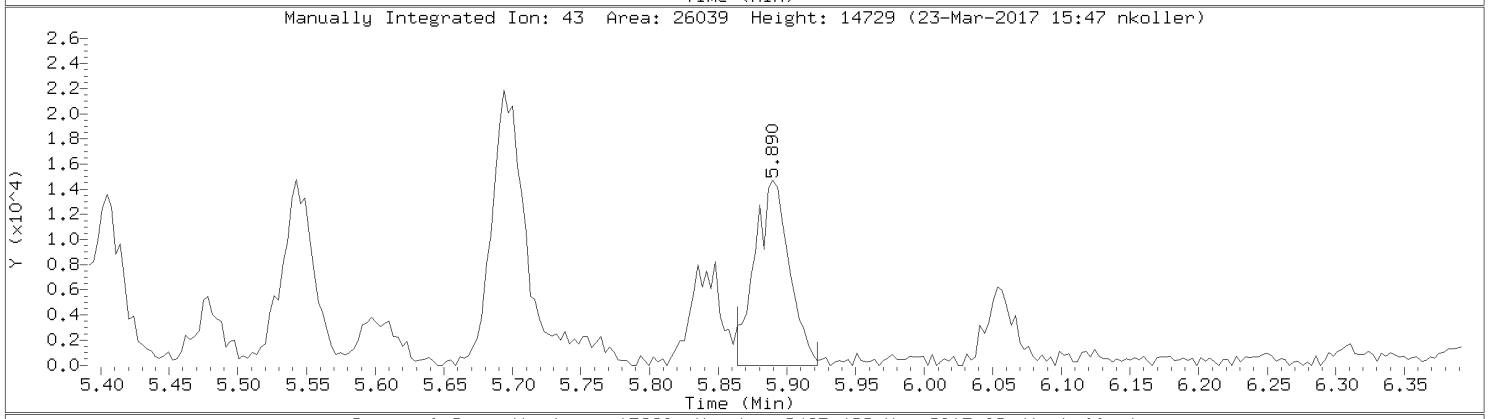
Compound: 1,1-Dichloroethene
CAS Number: 75-35-4

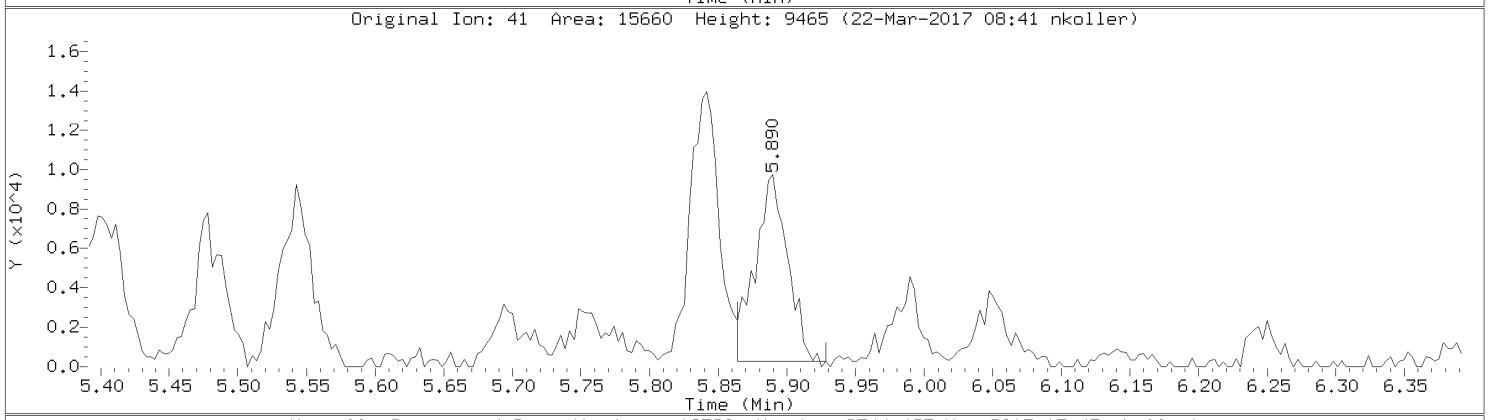


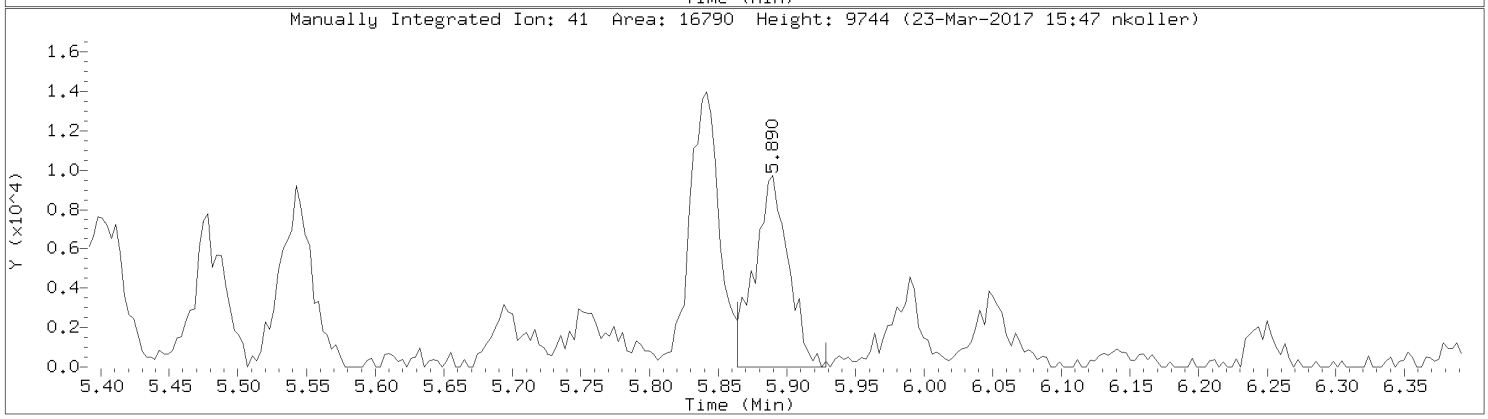
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08030.D
Injection Date: 21-MAR-2017 23:39
Instrument: 10airB.i
Lab Sample ID: 10381035018

Compound: Heptane
CAS Number: 142-82-5



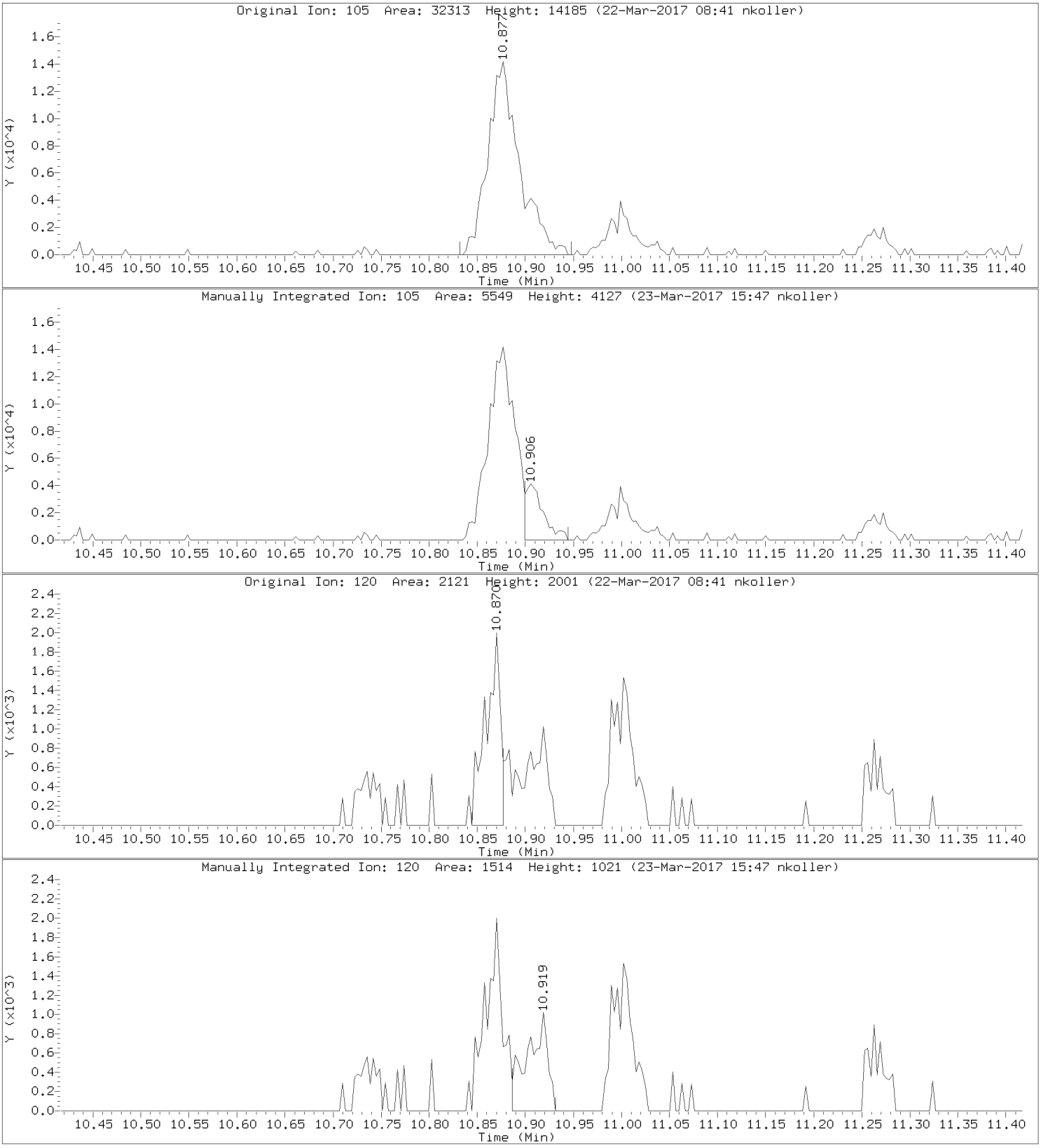




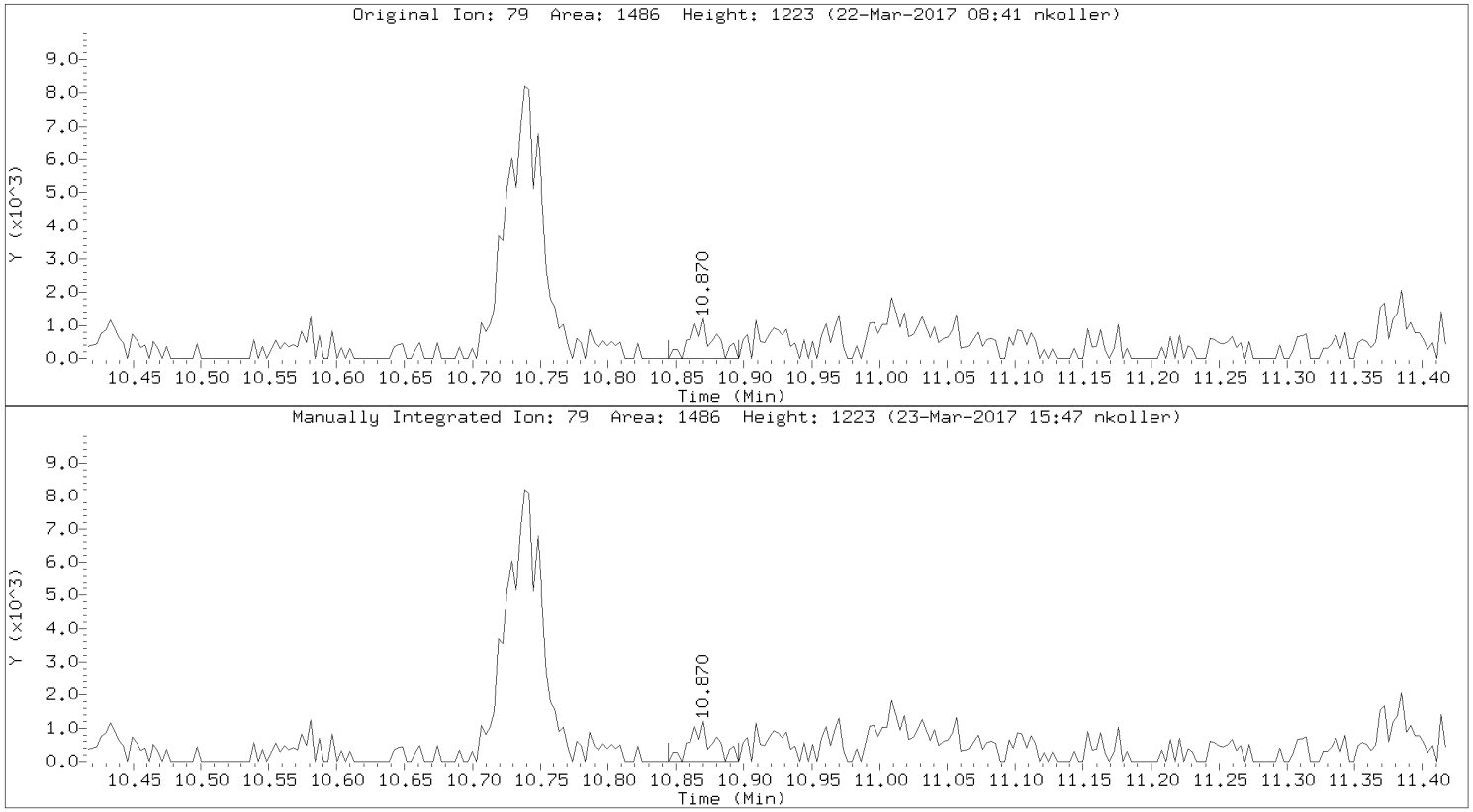


Data File: \\192.168.10.12\chem\10airB.i\032117.b/08030.D
Injection Date: 21-MAR-2017 23:39
Instrument: 10airB.i
Lab Sample ID: 10381035018

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

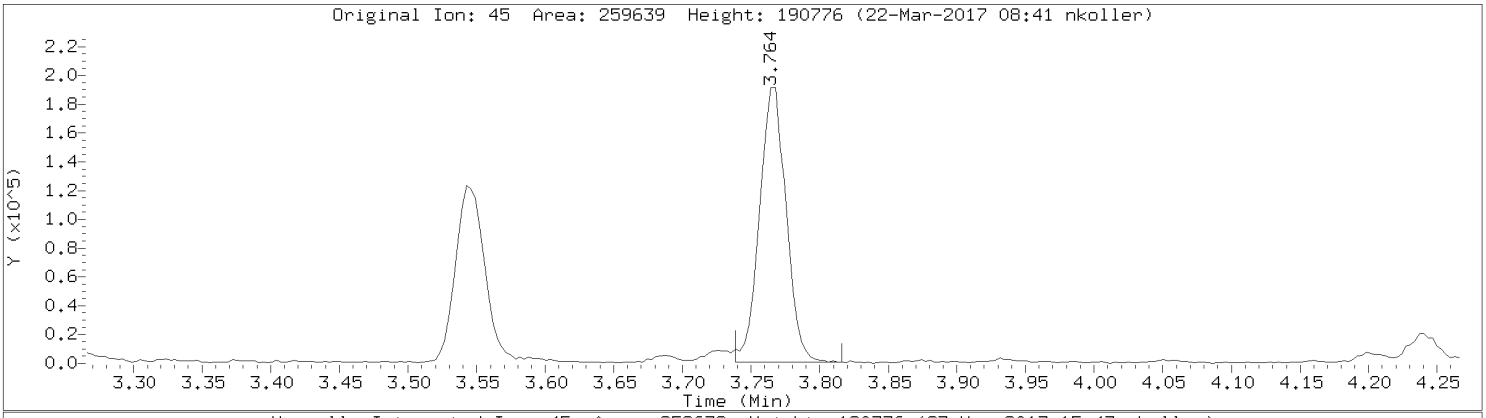


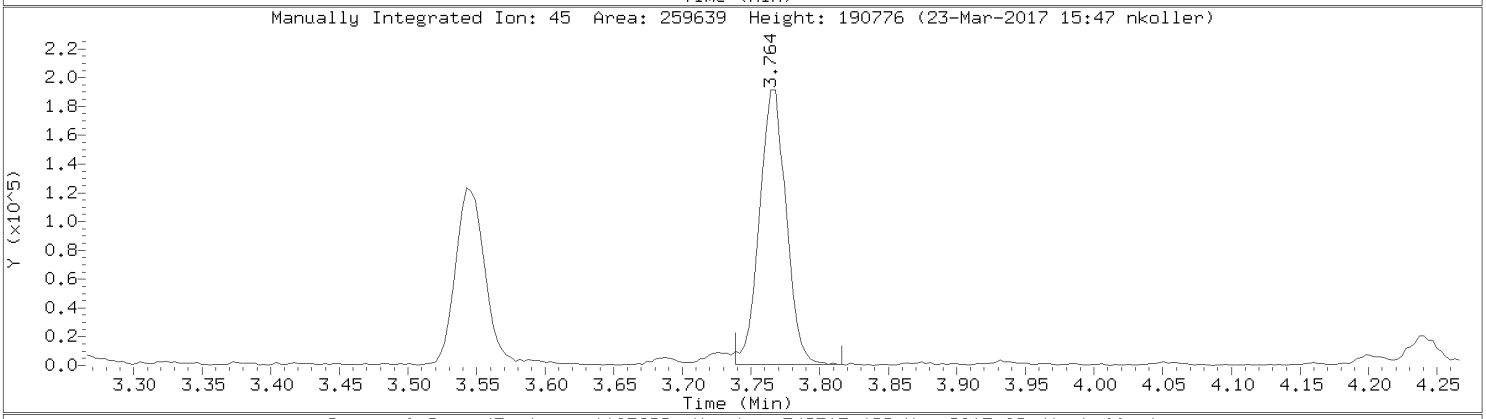
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08030.D
Injection Date: 21-MAR-2017 23:39
Instrument: 10airB.i
Lab Sample ID: 10381035018

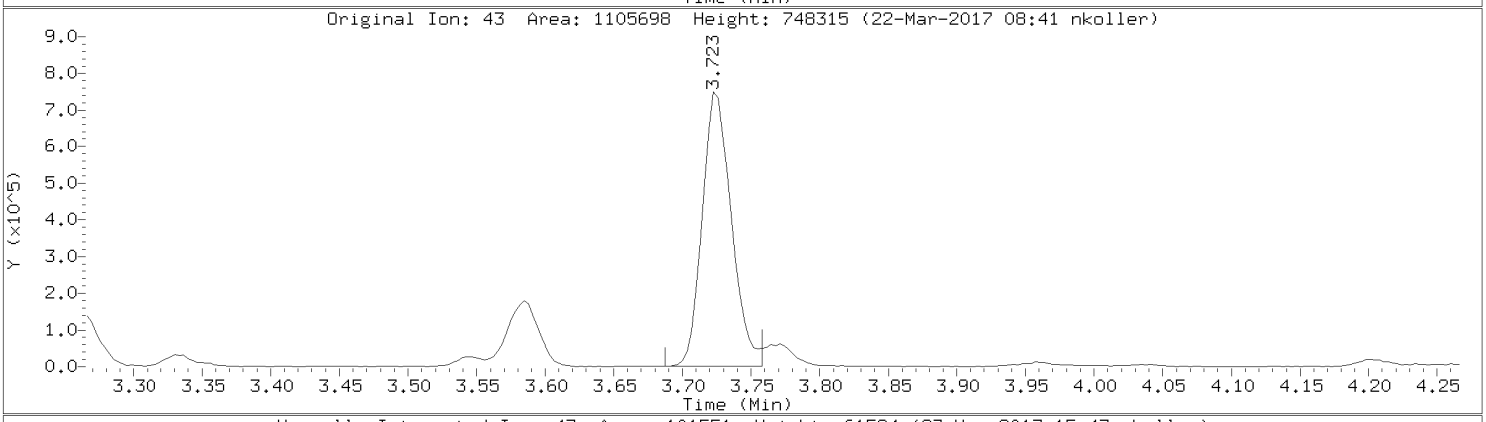


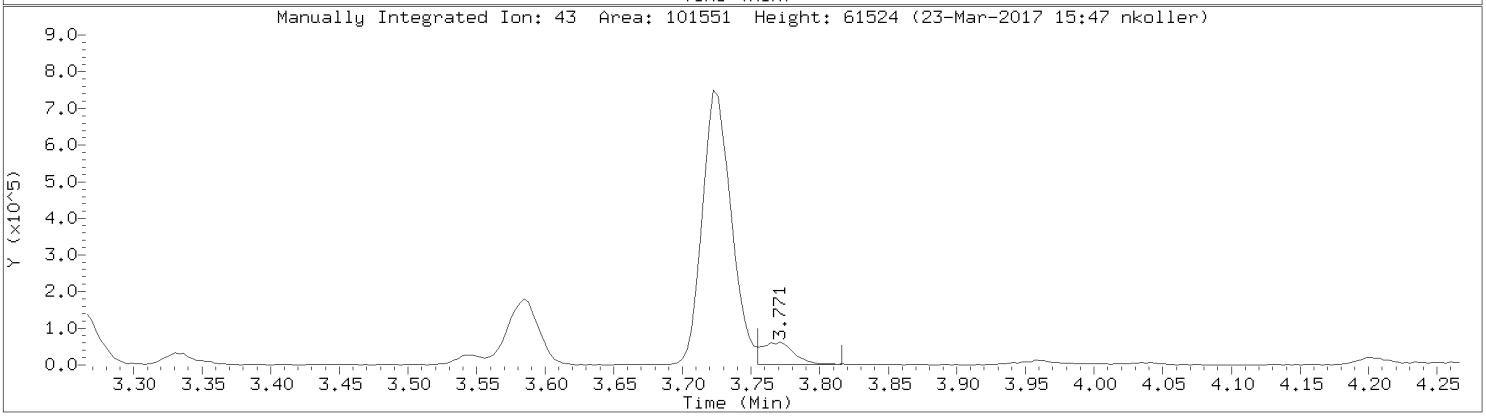
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08030.D
Injection Date: 21-MAR-2017 23:39
Instrument: 10airB.i
Lab Sample ID: 10381035018

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



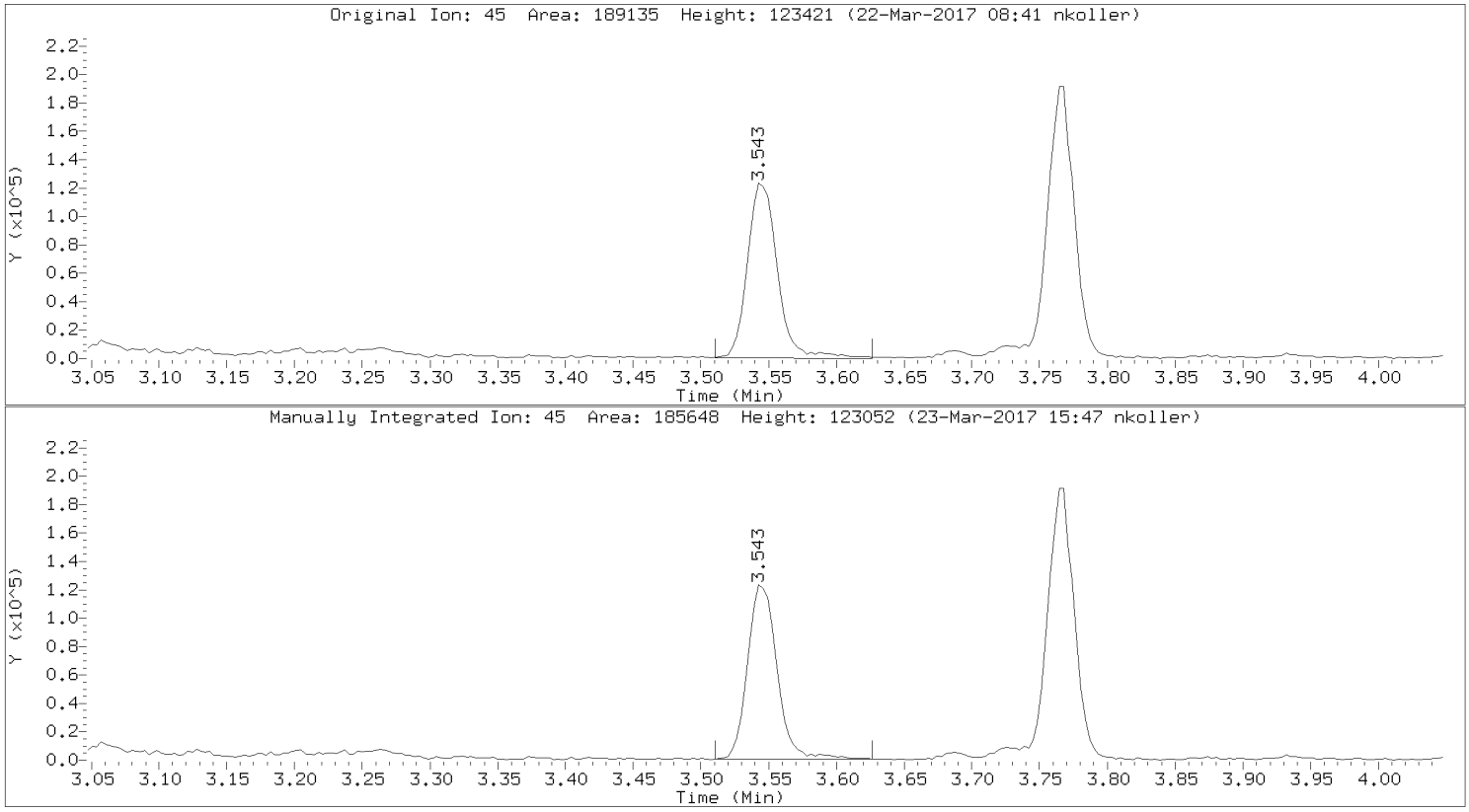






Data File: \\192.168.10.12\chem\10airB.i\032117.b/08030.D
Injection Date: 21-MAR-2017 23:39
Instrument: 10airB.i
Lab Sample ID: 10381035018

Compound: Ethanol
CAS Number: 64-17-5



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08140.D
Report Date: 23-Mar-2017 10:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032217.b\08140.D
Lab Smp Id: 10381035018
Inj Date : 23-MAR-2017 05:42
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Meth Date : 22-Mar-2017 11:20 10airB.i Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 40
Dil Factor: 43.14800
Integrator: HP RTE Compound Sublist: TCE_PCE.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	43.148	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$	32 Hexane-d14(S)	66	4.491	4.494	(0.801)	1910729	9.36716	9.37
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	5951381	10.0000	
	51 Trichloroethene	130	5.979	5.989	(1.067)	757752	9.45477	408
$	59 Toluene-d8 (S)	98	7.073	7.076	(1.262)	5185258	9.46148	9.46
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	175906	2.07441	89.5
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	3738270	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.371)	1477426	8.18985	8.19

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08140.D
Report Date: 23-Mar-2017 10:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08140.D
Lab Smp Id: 10381035018
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 22-MAR-2017
Calibration Time: 09:05
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

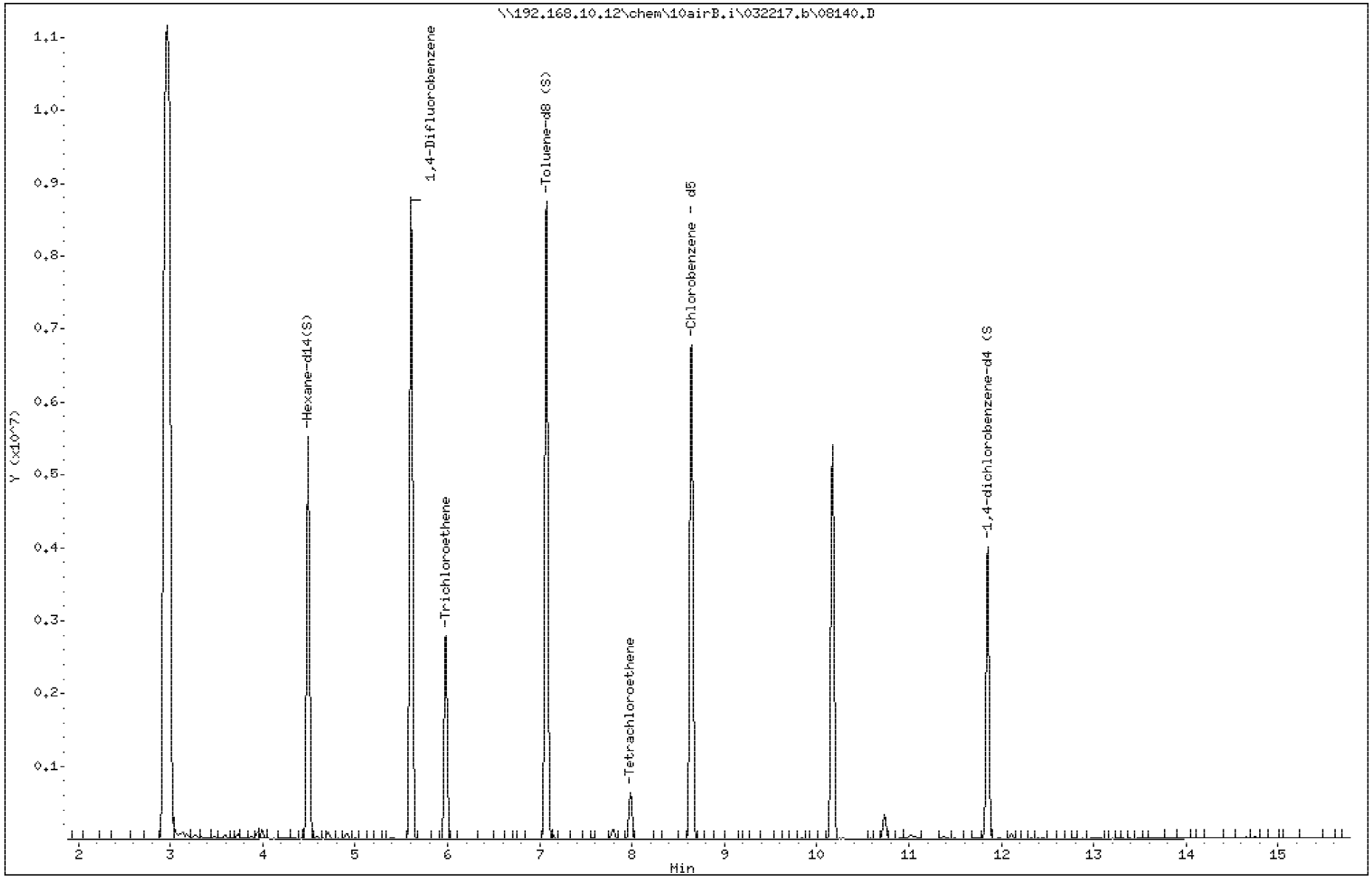
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	5951381	-22.11
67 Chlorobenzene - d	5205948	3123569	7288327	3738270	-28.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08140.D
Date : 23-MAR-2017 05:42
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08140.D

Date : 23-MAR-2017 05:42

Client ID:

Instrument: 10airB.i

Sample Info:

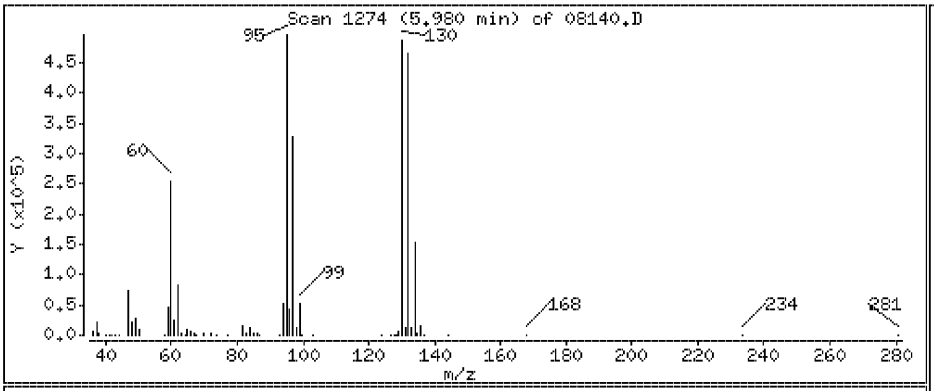
Operator: NCK

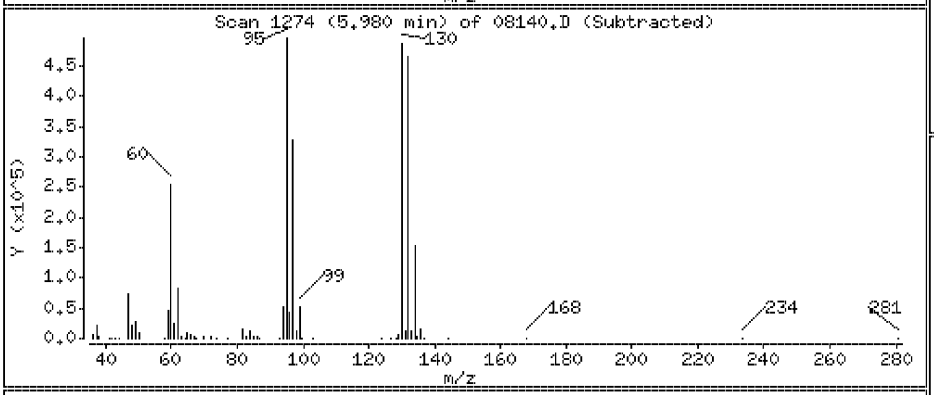
Column phase: J&W DB-5

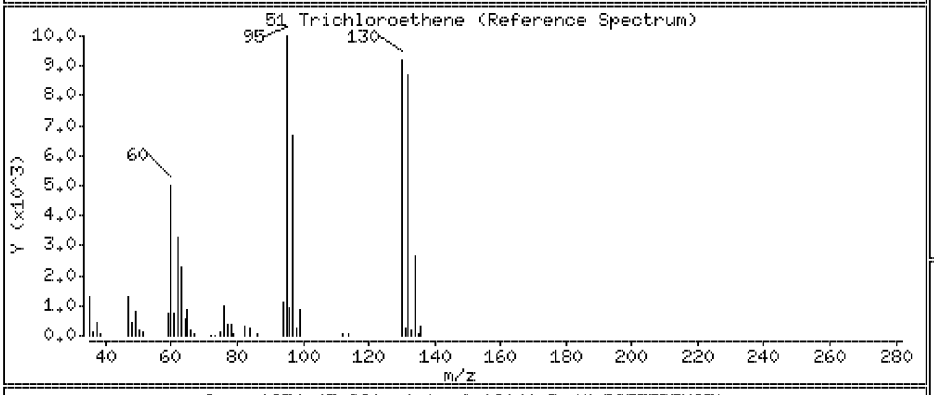
Column diameter: 0.32

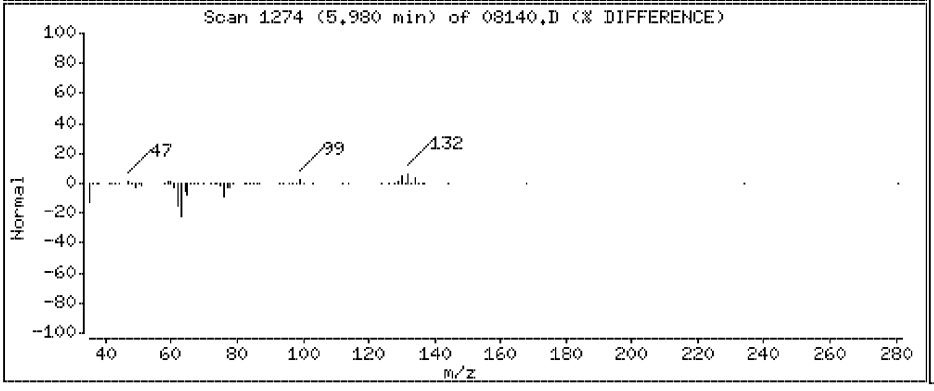
51 Trichloroethene

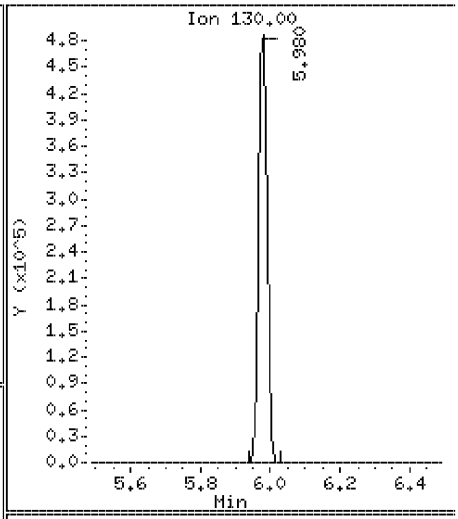
Concentration: 408 ppbv

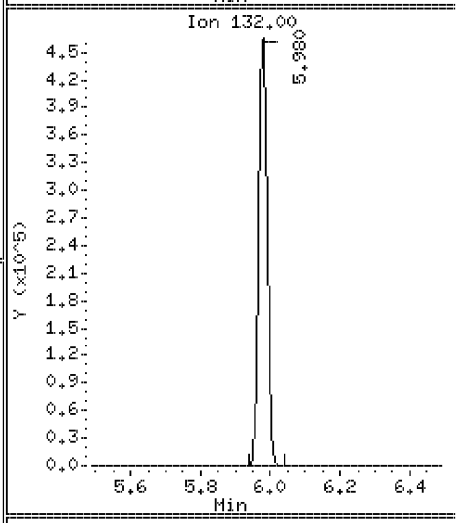


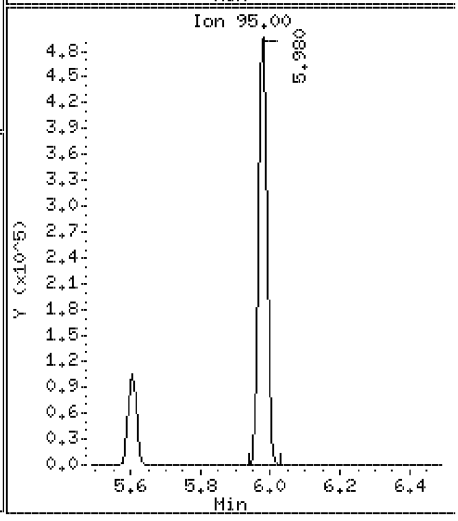












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08140.D

Date : 23-MAR-2017 05:42

Client ID:

Instrument: 10airB.i

Sample Info:

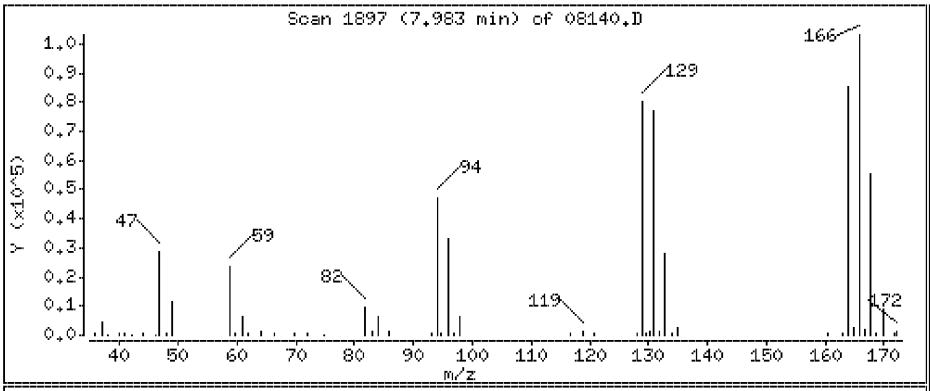
Operator: NCK

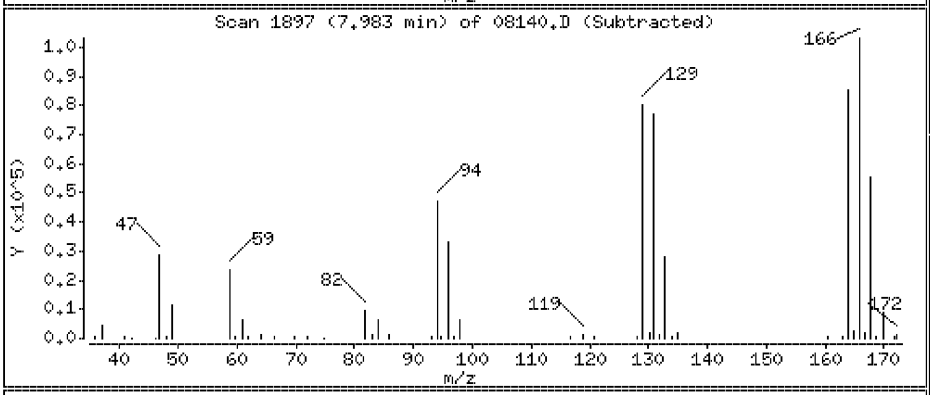
Column phase: J&W DB-5

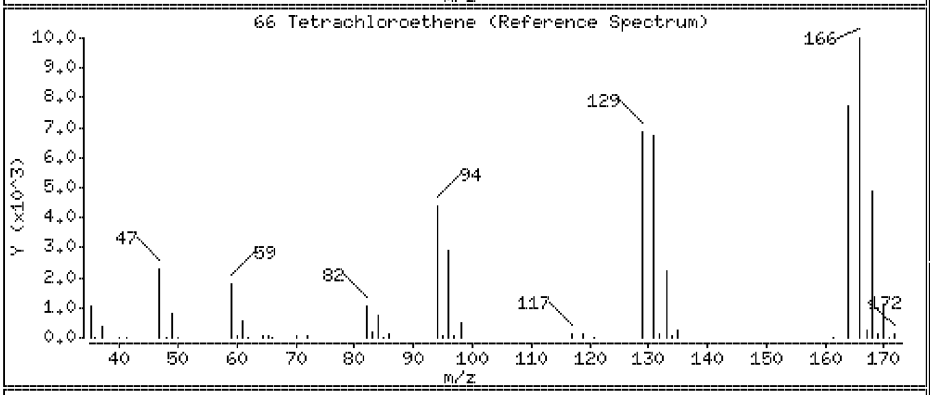
Column diameter: 0.32

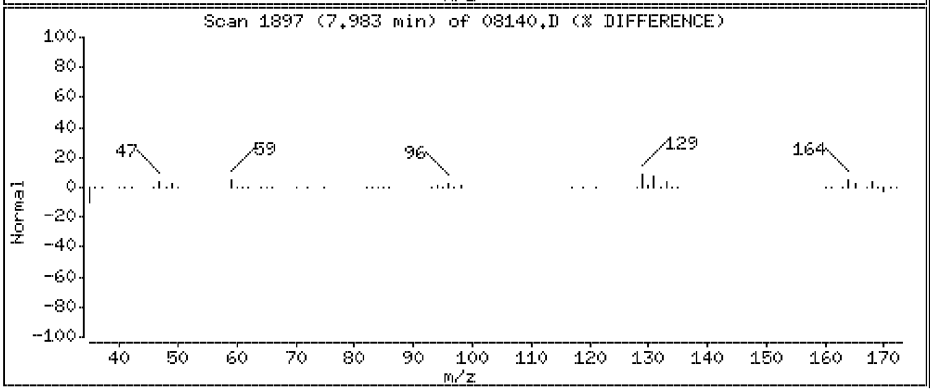
66 Tetrachloroethene

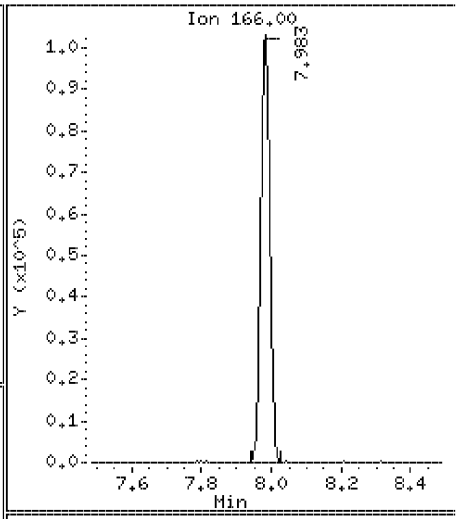
Concentration: 89.5 ppbv

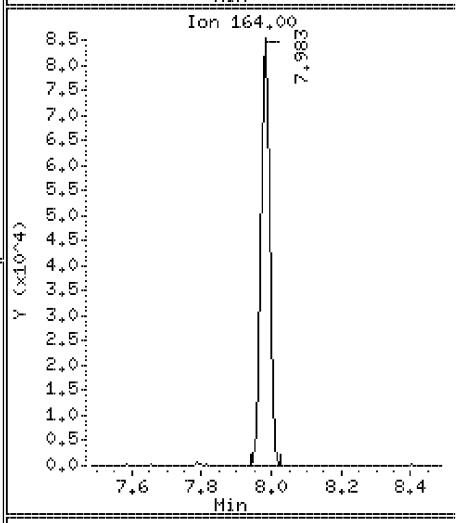


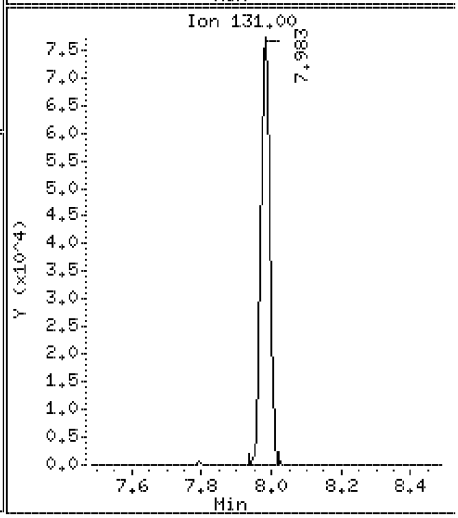












Data File: \\192.168.10.12\chem\10airB.i\032217.b/08140.D
Injection Date: 23-MAR-2017 05:42
Instrument: 10airB.i
Lab Sample ID: 10381035018
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_84_20170302 **Lab ID: 10381035019** Collected: 03/02/17 13:18 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**12.9**	ug/m3	3.2	1.1	1.34		03/22/17 00:12	67-64-1	
Allyl chloride	**<0.30**	ug/m3	2.1	0.30	1.34		03/22/17 00:12	107-05-1	
Benzene	**0.59**	ug/m3	0.44	0.16	1.34		03/22/17 00:12	71-43-2	
Bromodichloromethane	**<0.26**	ug/m3	1.8	0.26	1.34		03/22/17 00:12	75-27-4	
Bromoform	**<1.2**	ug/m3	7.0	1.2	1.34		03/22/17 00:12	75-25-2	
Bromomethane	**<0.42**	ug/m3	1.1	0.42	1.34		03/22/17 00:12	74-83-9	
1,3-Butadiene	**<0.24**	ug/m3	0.60	0.24	1.34		03/22/17 00:12	106-99-0	
2-Butanone (MEK)	**3.0J**	ug/m3	4.0	0.31	1.34		03/22/17 00:12	78-93-3	
Carbon disulfide	**0.59J**	ug/m3	0.84	0.14	1.34		03/22/17 00:12	75-15-0	
Carbon tetrachloride	**<0.26**	ug/m3	0.86	0.26	1.34		03/22/17 00:12	56-23-5	
Chlorobenzene	**<0.18**	ug/m3	1.3	0.18	1.34		03/22/17 00:12	108-90-7	
Chlorodifluoromethane	**<0.37**	ug/m3	0.96	0.37	1.34		03/22/17 00:12	75-45-6	
Chloroethane	**<0.26**	ug/m3	0.72	0.26	1.34		03/22/17 00:12	75-00-3	
Chloroform	**3.8**	ug/m3	0.66	0.25	1.34		03/22/17 00:12	67-66-3	
Chloromethane	**<0.14**	ug/m3	0.56	0.14	1.34		03/22/17 00:12	74-87-3	
Chloropentafluoroethane	**<4.3**	ug/m3	4.3	4.3	1.34		03/22/17 00:12	76-15-3	
Cyclohexane	**<0.42**	ug/m3	0.94	0.42	1.34		03/22/17 00:12	110-82-7	
1,2-Dibromo-3-chloropropane	**<6.6**	ug/m3	6.6	6.6	1.34		03/22/17 00:12	96-12-8	
Dibromochloromethane	**<1.1**	ug/m3	2.3	1.1	1.34		03/22/17 00:12	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/m3	2.1	1.0	1.34		03/22/17 00:12	106-93-4	
1,2-Dichlorobenzene	**<0.69**	ug/m3	1.6	0.69	1.34		03/22/17 00:12	95-50-1	
1,3-Dichlorobenzene	**<0.71**	ug/m3	1.6	0.71	1.34		03/22/17 00:12	541-73-1	
1,4-Dichlorobenzene	**1.3J**	ug/m3	1.6	0.67	1.34		03/22/17 00:12	106-46-7	
Dichlorodifluoromethane	**<0.64**	ug/m3	3.4	0.64	1.34		03/22/17 00:12	75-71-8	
1,1-Dichloroethane	**<0.21**	ug/m3	1.1	0.21	1.34		03/22/17 00:12	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.55	0.27	1.34		03/22/17 00:12	107-06-2	
1,1-Dichloroethene	**7.7**	ug/m3	1.1	0.32	1.34		03/22/17 00:12	75-35-4	
cis-1,2-Dichloroethene	**55.6**	ug/m3	1.1	0.33	1.34		03/22/17 00:12	156-59-2	
trans-1,2-Dichloroethene	**2.5**	ug/m3	1.1	0.51	1.34		03/22/17 00:12	156-60-5	
1,2-Dichloropropane	**<0.36**	ug/m3	1.3	0.36	1.34		03/22/17 00:12	78-87-5	
cis-1,3-Dichloropropene	**<0.49**	ug/m3	1.2	0.49	1.34		03/22/17 00:12	10061-01-5	
trans-1,3-Dichloropropene	**<0.35**	ug/m3	1.2	0.35	1.34		03/22/17 00:12	10061-02-6	
Dichlorotetrafluoroethane	**<0.42**	ug/m3	1.9	0.42	1.34		03/22/17 00:12	76-14-2	
Freon 123	**<4.3**	ug/m3	4.3	4.3	1.34		03/22/17 00:12	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.47**	ug/m3	4.9	0.47	1.34		03/22/17 00:12	123-91-1	
Ethylbenzene	**<0.57**	ug/m3	1.2	0.57	1.34		03/22/17 00:12	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.3	0.25	1.34		03/22/17 00:12	622-96-8	
Hexachloro-1,3-butadiene	**<0.87**	ug/m3	2.9	0.87	1.34		03/22/17 00:12	87-68-3	
n-Hexane	**1.5**	ug/m3	0.96	0.48	1.34		03/22/17 00:12	110-54-3	
2-Hexanone	**<0.55**	ug/m3	5.6	0.55	1.34		03/22/17 00:12	591-78-6	
Isopropylbenzene (Cumene)	**<0.18**	ug/m3	3.4	0.18	1.34		03/22/17 00:12	98-82-8	
Methyl acetate	**<2.1**	ug/m3	2.1	2.1	1.34		03/22/17 00:12	79-20-9	
Methylcyclohexane	**<0.32**	ug/m3	1.1	0.32	1.34		03/22/17 00:12	108-87-2	
Methylene Chloride	**<0.73**	ug/m3	4.7	0.73	1.34		03/22/17 00:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.29**	ug/m3	5.6	0.29	1.34		03/22/17 00:12	108-10-1	
Methyl-tert-butyl ether	**<0.41**	ug/m3	4.9	0.41	1.34		03/22/17 00:12	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D
Report Date: 23-Mar-2017 15:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08031.D
Lab Smp Id: 10381035019
Inj Date : 22-MAR-2017 00:12
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 31
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.340	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	3.008	3.025	(0.536)	23072	0.43312	0.580(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.545	3.545	(0.632)	197915	8.58393	11.5	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.587	3.603	(0.639)	26178	0.16263	0.218(QM)	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.668	3.677	(0.654)	134743	1.08121	1.45	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.729	3.722	(0.665)	397363	3.99179	5.35(M)	
19	Isopropyl Alcohol	45	3.767	3.764	(0.672)	170069	1.53373	2.06	
20	1,1-Dichloroethene	61	3.899	3.912	(0.695)	129260	1.43431	1.92	
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.954	3.951	(0.705)	745196	7.84804	10.5	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D
Report Date: 23-Mar-2017 15:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	4.108	4.127	(0.732)	14096	0.13906	0.186	
	28 trans-1,2-dichloroethene	96	4.256	4.275	(0.759)	20263	0.46305	0.620	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	4.446	4.388	(0.793)	58695	0.39235	0.526	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.487	4.491	(0.800)	1950916	9.24224	9.24	
	33 Methyl Ethyl Ketone	72	4.568	4.555	(0.814)	17331	0.75498	1.01(Q)	
	34 n-Hexane	57	4.584	4.587	(0.817)	32684	0.30950	0.415(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.706	4.725	(0.839)	552795	10.2863	13.8(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	4.819	4.841	(0.859)	64605	0.57552	0.771	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.221	5.233	(0.931)	43110	0.32691	0.438	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	5.465	5.465	(0.974)	24179	0.13629	0.183	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.610	5.613	(1.000)	6158683	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.896	5.889	(1.051)	13368	0.10690	0.143	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.989	5.986	(1.068)	11790016	142.157	190(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	5403021	9.52698	9.53	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.150	7.153	(1.275)	1219914	5.92173	7.94	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	3801662	42.7908	57.3(A)	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	3916588	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.069	9.082	(1.050)	63589	0.46158	0.619	
	71 n-Nonane	43	9.497	9.468	(1.099)	37926	0.31433	0.421(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.577	9.577	(1.109)	19531	0.11208	0.150	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D
Report Date: 23-Mar-2017 15:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.899	10.915	(1.262)	8580	0.18998	0.255(M)	
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.273)	4676	0.16064	0.215	
80	n-Decane	57	11.378	11.381	(2.028)	354584	2.87378	3.85(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	17835	0.21358	0.286	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	1842151	9.74672	9.75	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	11.883	11.889	(1.376)	1784	0.15654	0.210(QH)	
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.031	12.034	(1.393)	2640	0.16068	0.215	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.162	14.156	(1.639)	4968	0.46653	0.625	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D
Report Date: 23-Mar-2017 15:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08031.D
Lab Smp Id: 10381035019
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

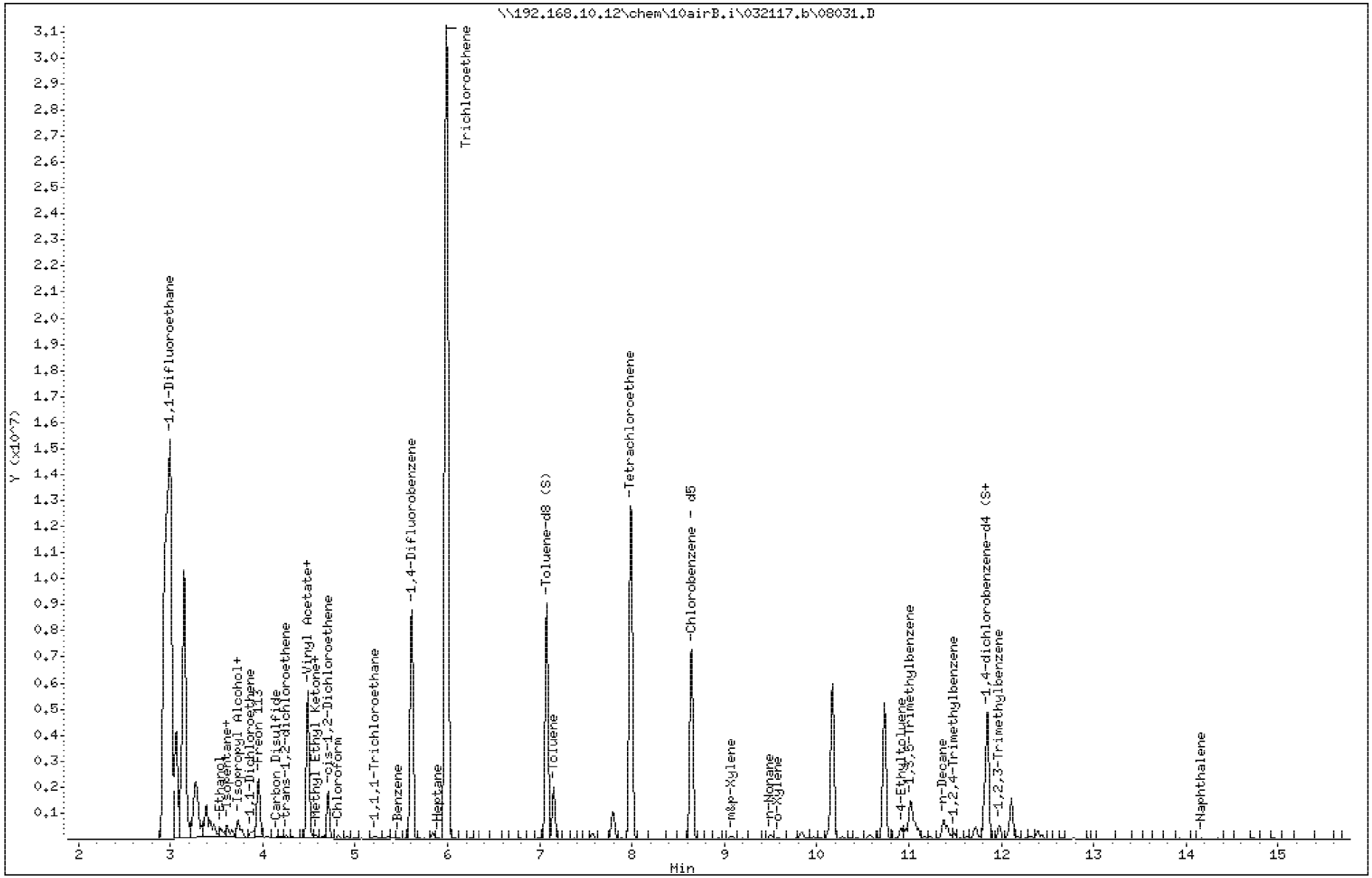
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6158683	-19.40
67 Chlorobenzene - d	5205948	3123569	7288327	3916588	-24.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D
Date : 22-MAR-2017 00:12
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

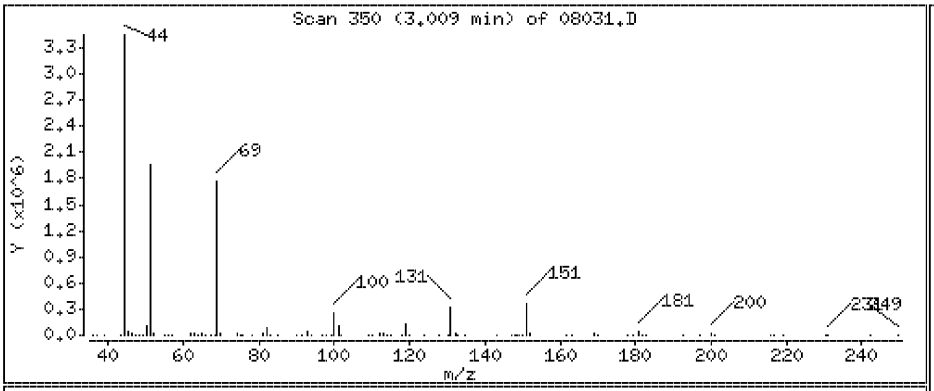
Operator: NCK

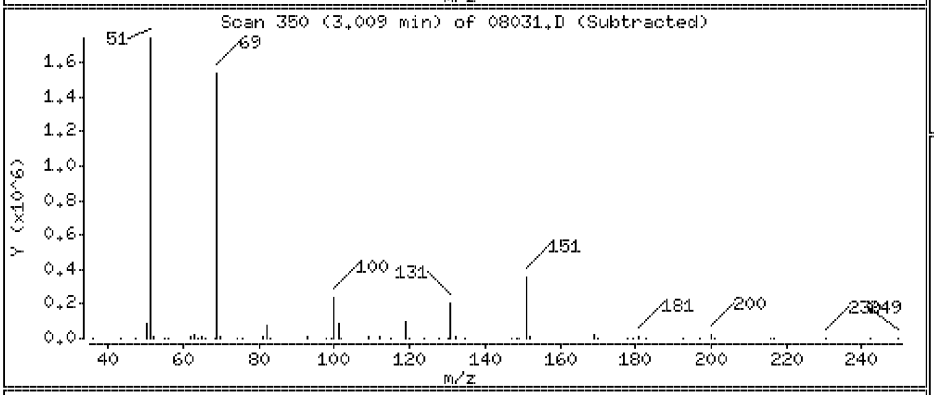
Column phase: J&W DB-5

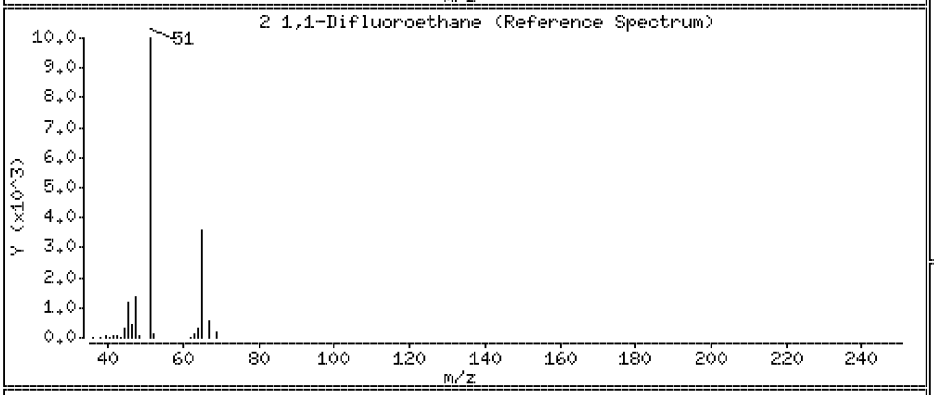
Column diameter: 0.32

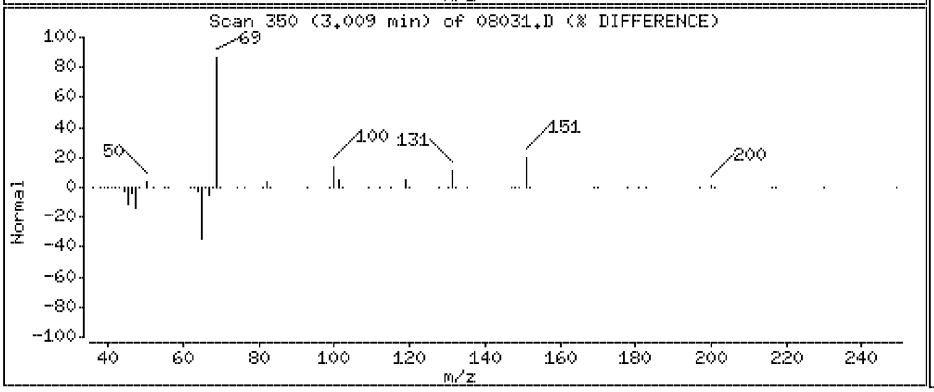
2 1,1-Difluoroethane

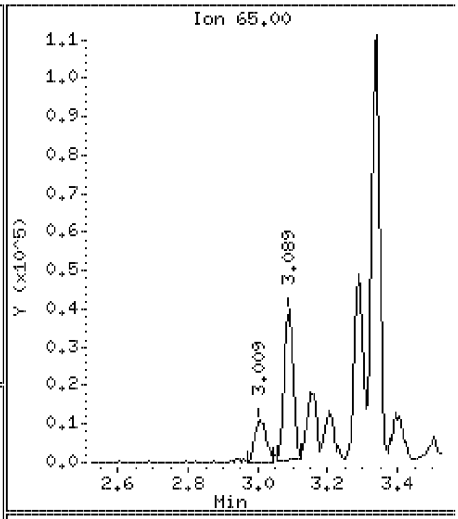
Concentration: 0.580 ppbv

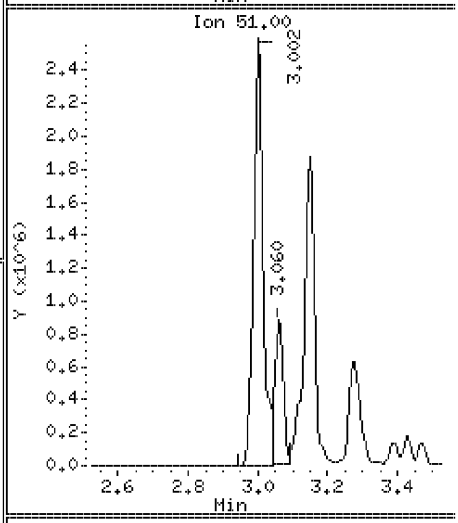


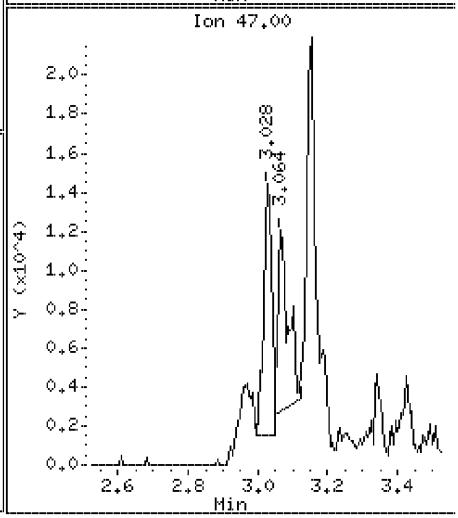












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

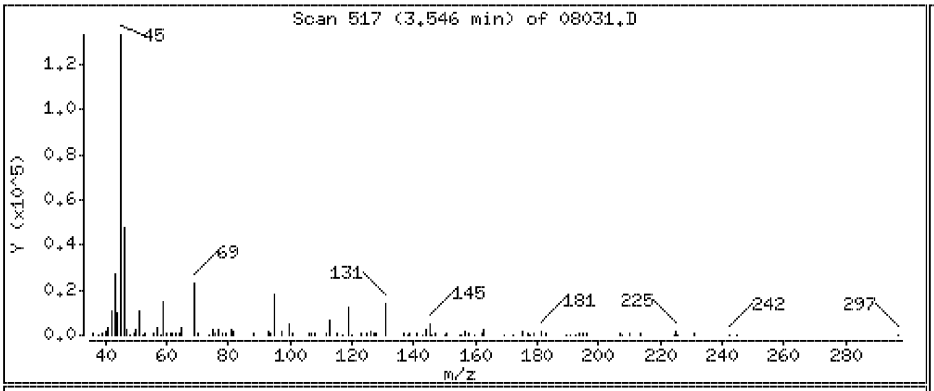
Operator: NCK

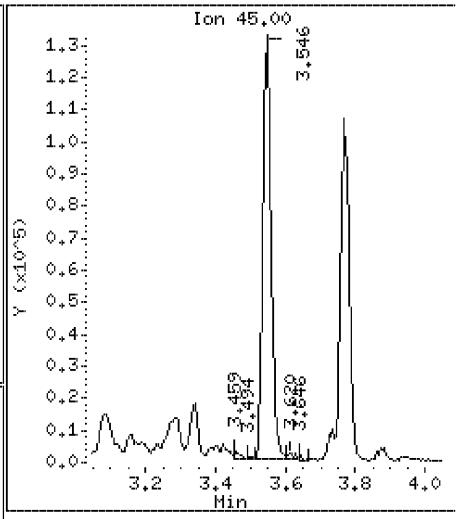
Column phase: J&W DB-5

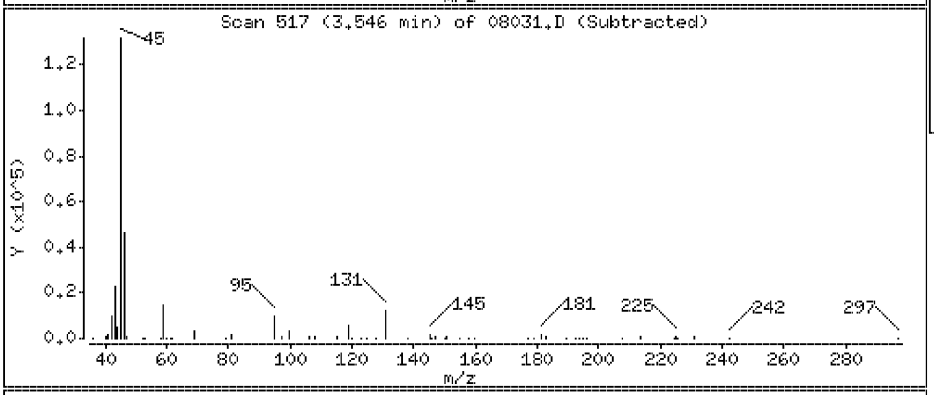
Column diameter: 0.32

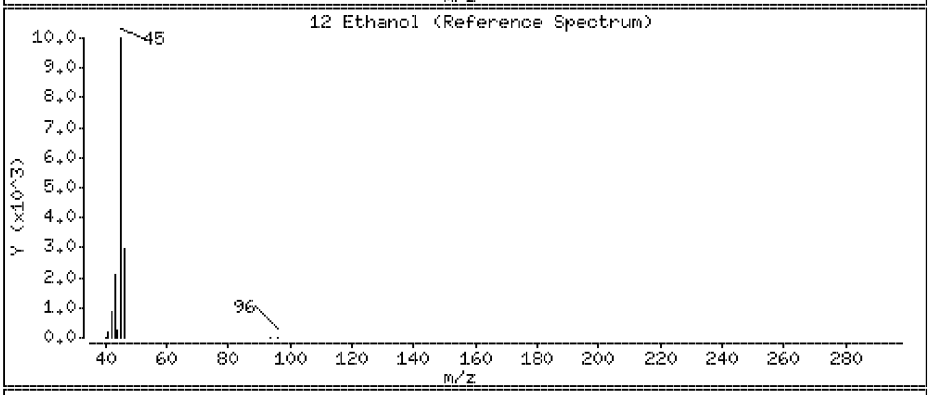
12 Ethanol

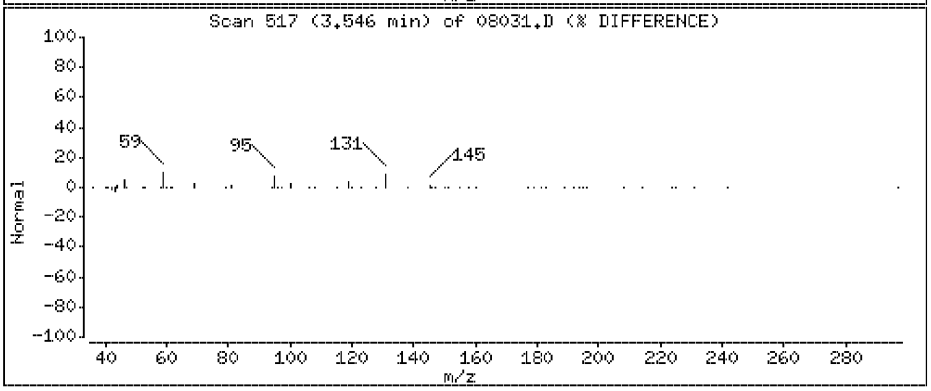
Concentration: 11.5 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

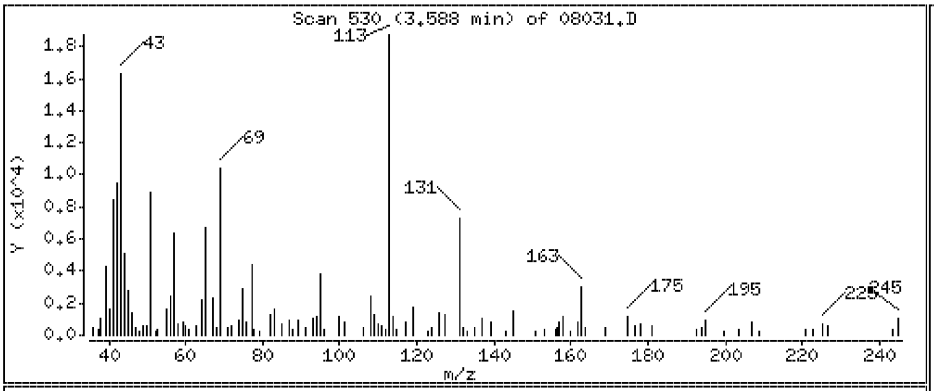
Operator: NCK

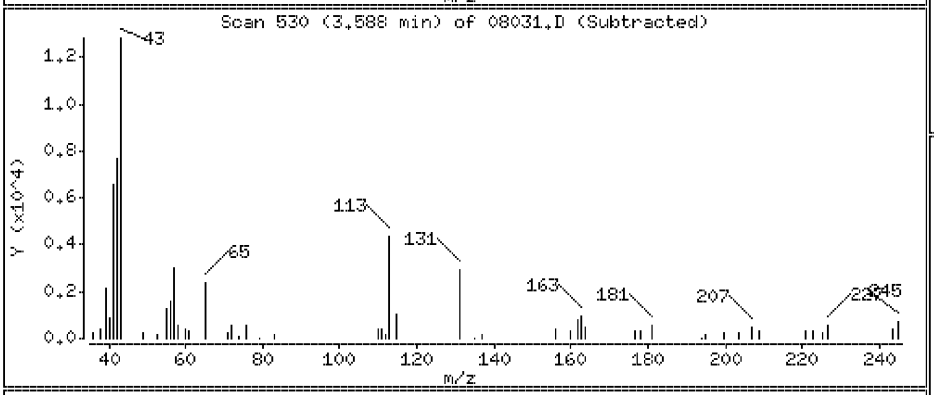
Column phase: J&W DB-5

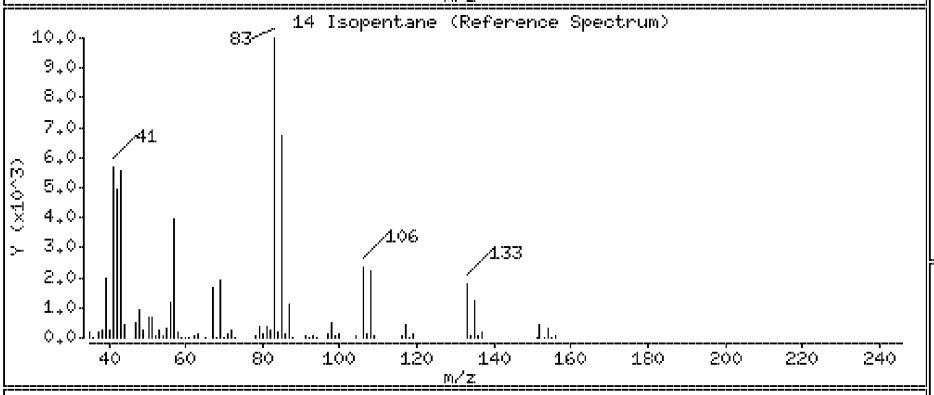
Column diameter: 0.32

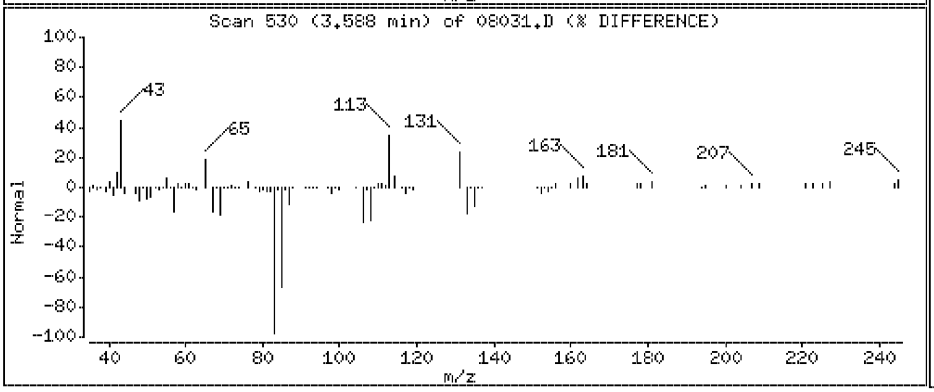
14 Isopentane

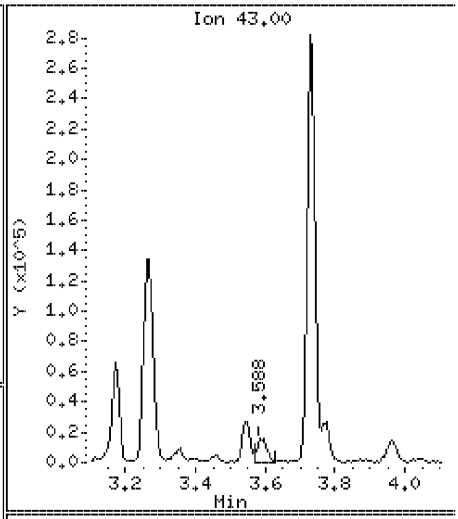
Concentration: 0.218 ppbv

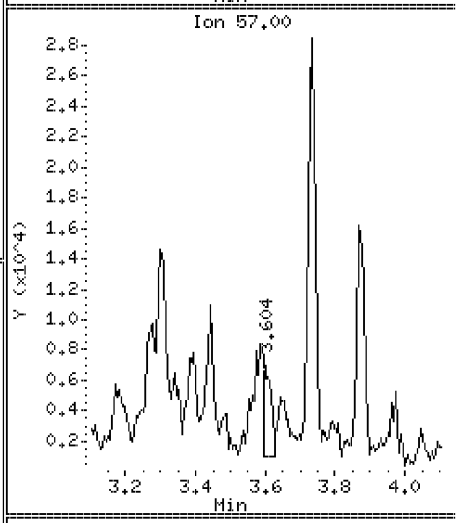


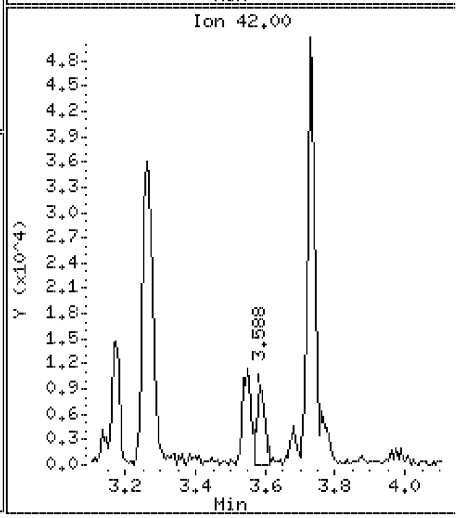












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

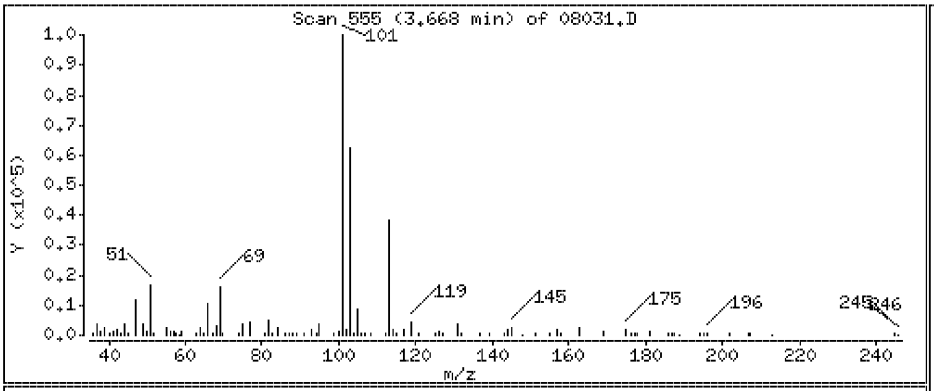
Operator: NCK

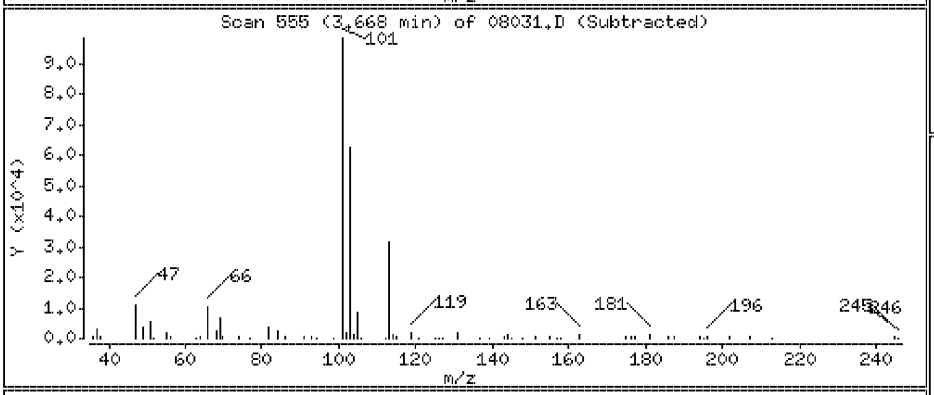
Column phase: J&W DB-5

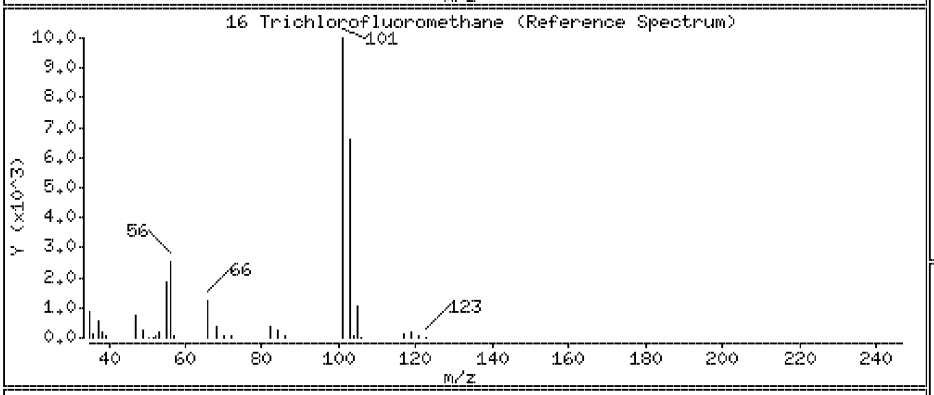
Column diameter: 0.32

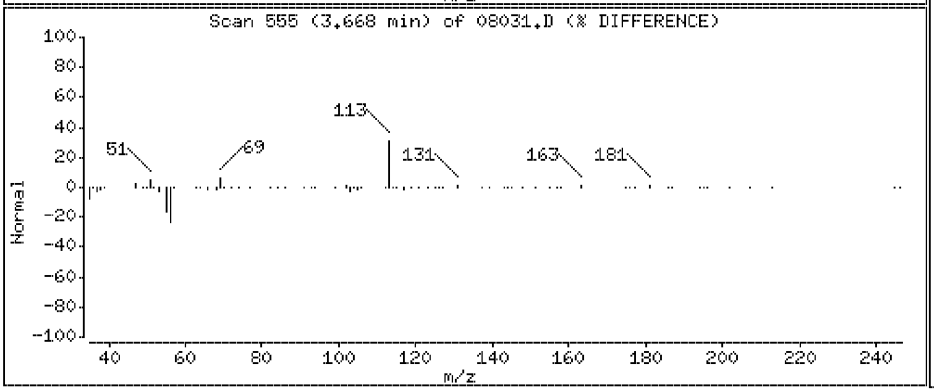
16 Trichlorofluoromethane

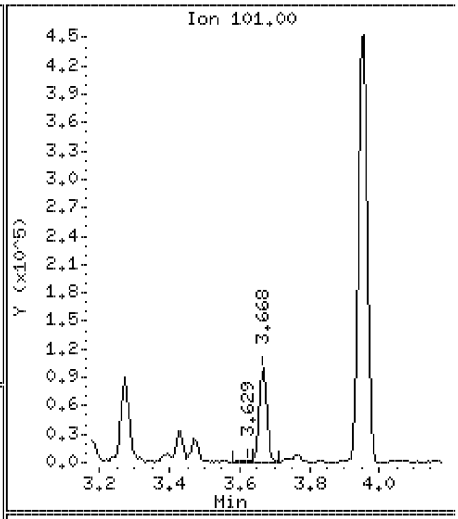
Concentration: 1.45 ppbv

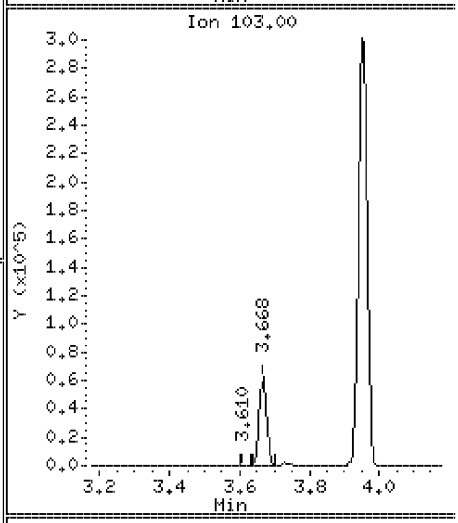


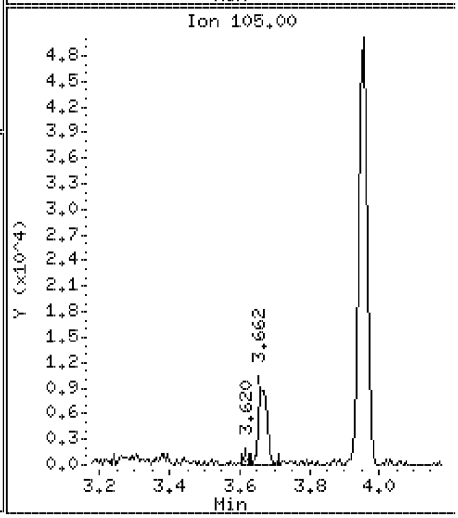












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

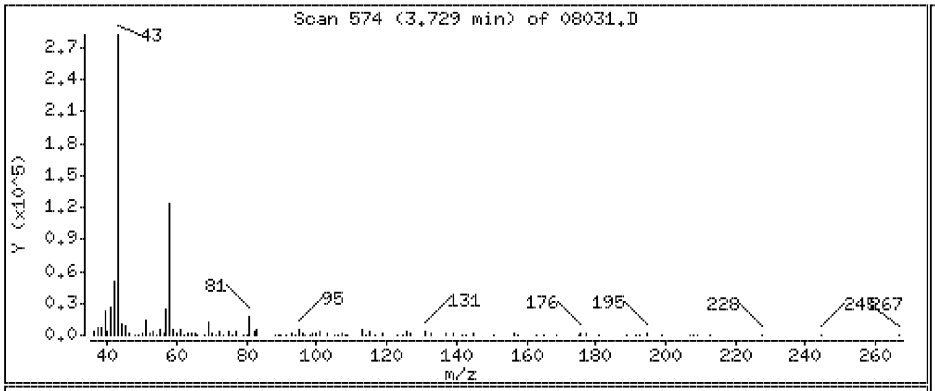
Operator: NCK

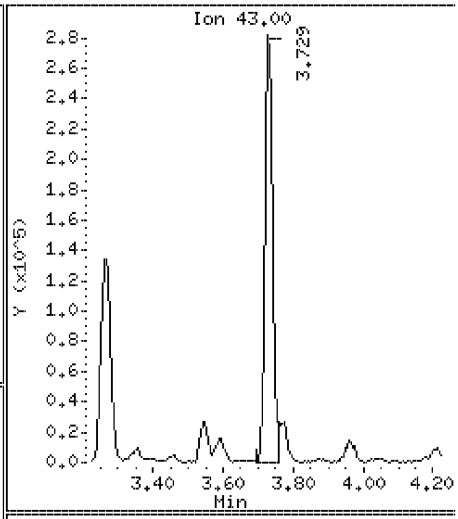
Column phase: J&W DB-5

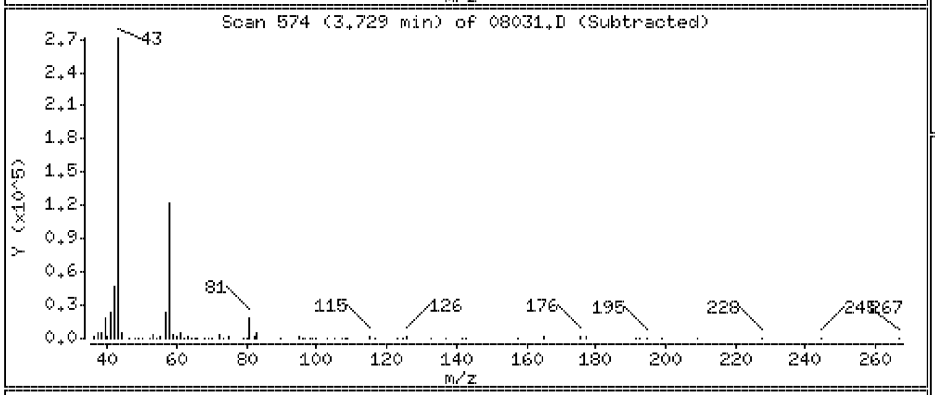
Column diameter: 0.32

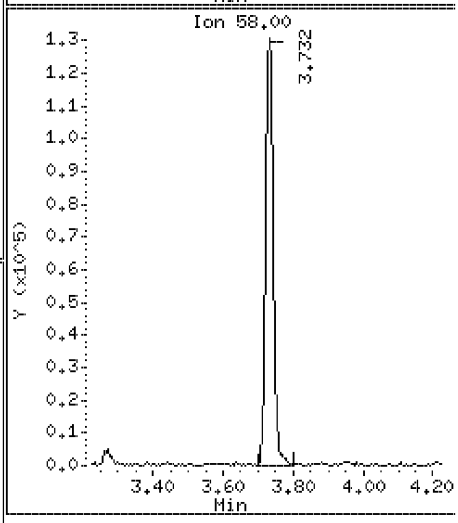
18 Acetone

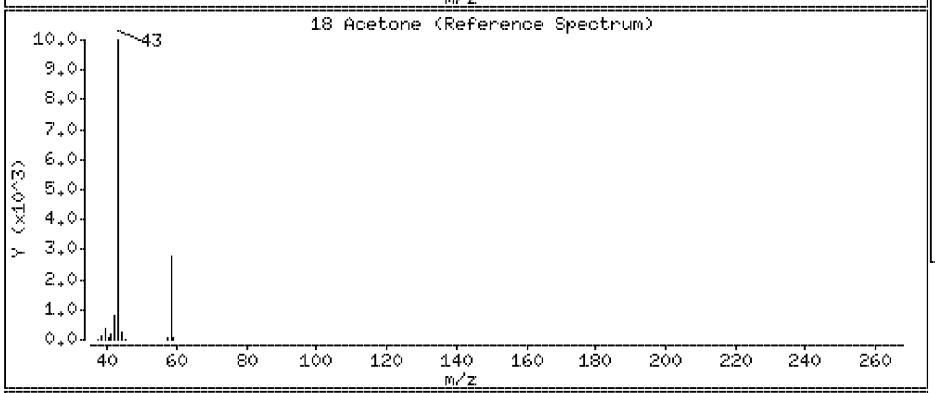
Concentration: 5.35 ppbv

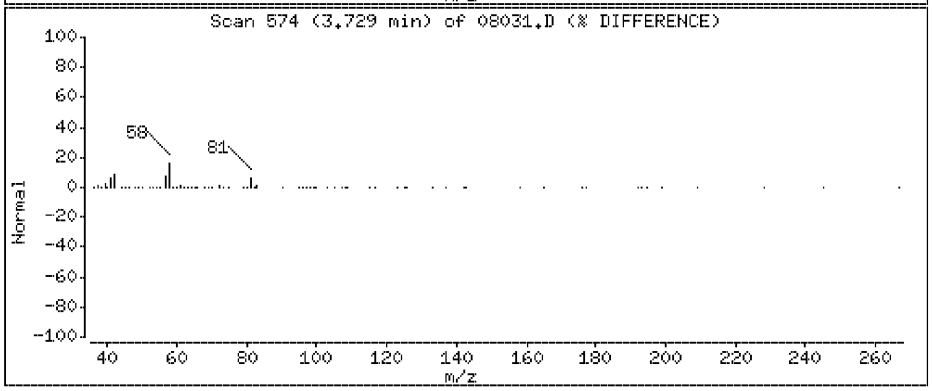












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

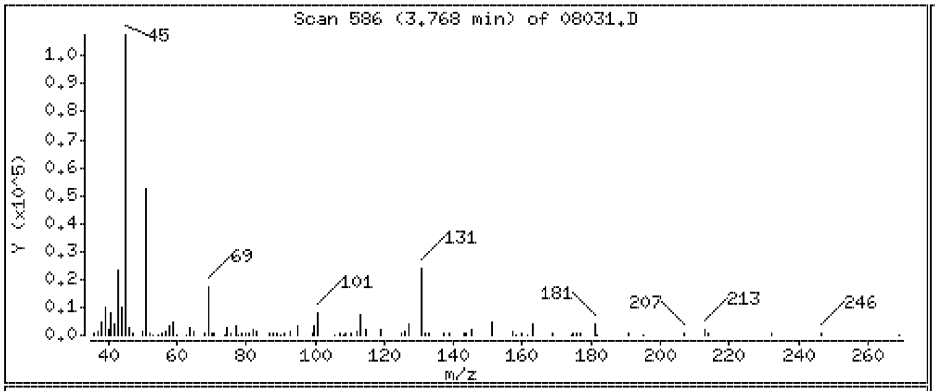
Operator: NCK

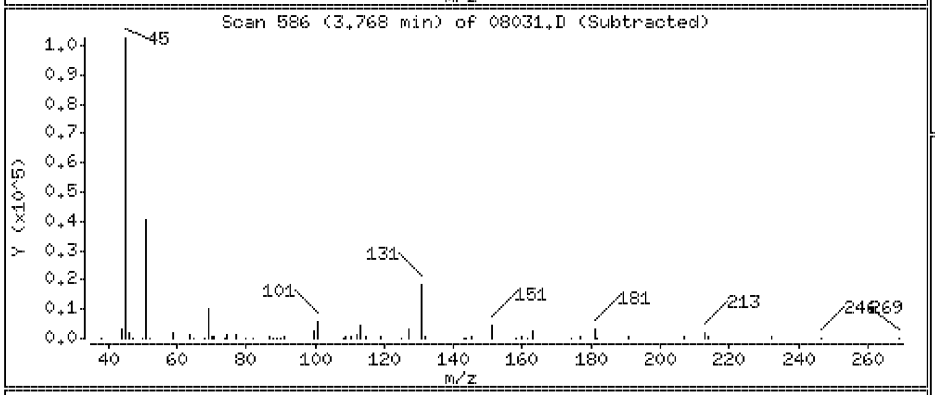
Column phase: J&W DB-5

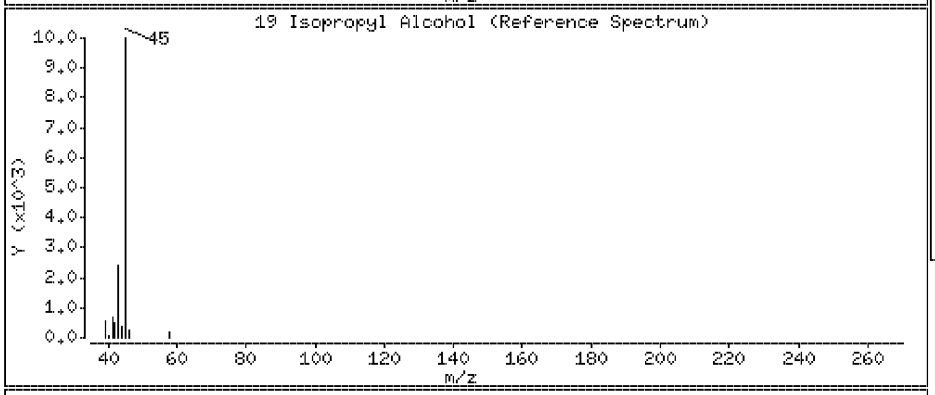
Column diameter: 0.32

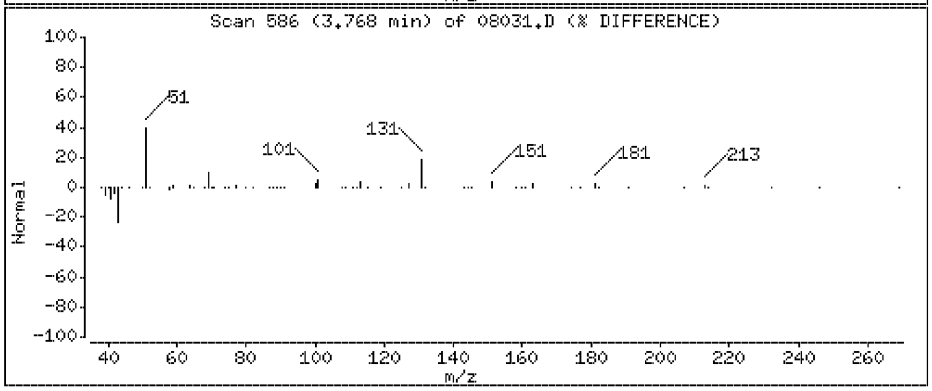
19 Isopropyl Alcohol

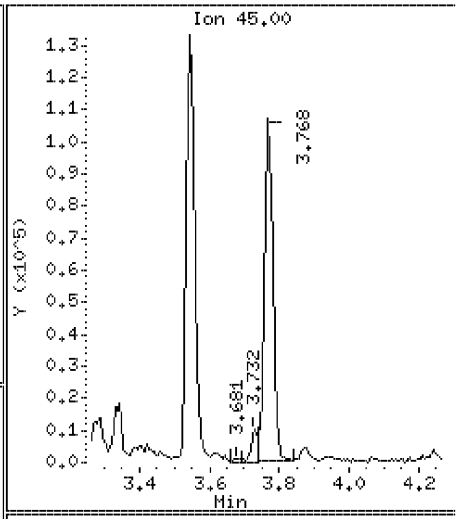
Concentration: 2.06 ppbv

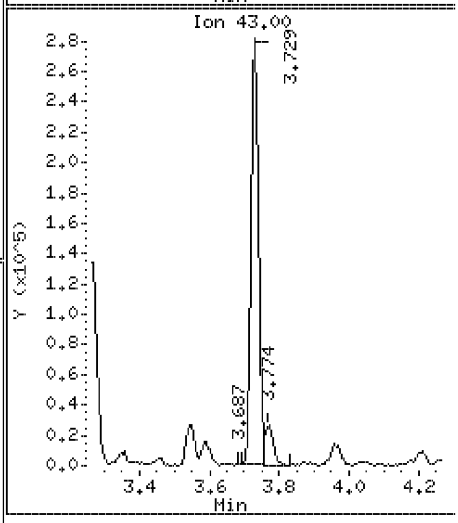












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

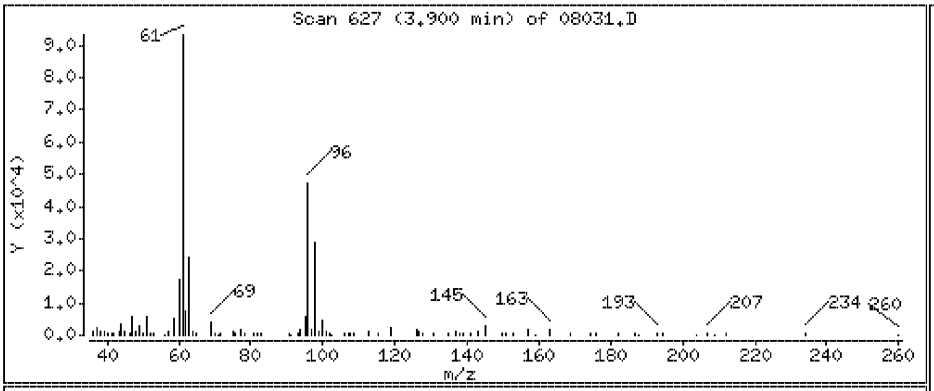
Operator: NCK

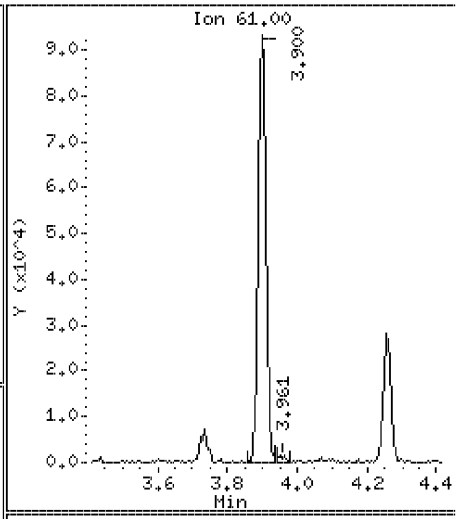
Column phase: J&W DB-5

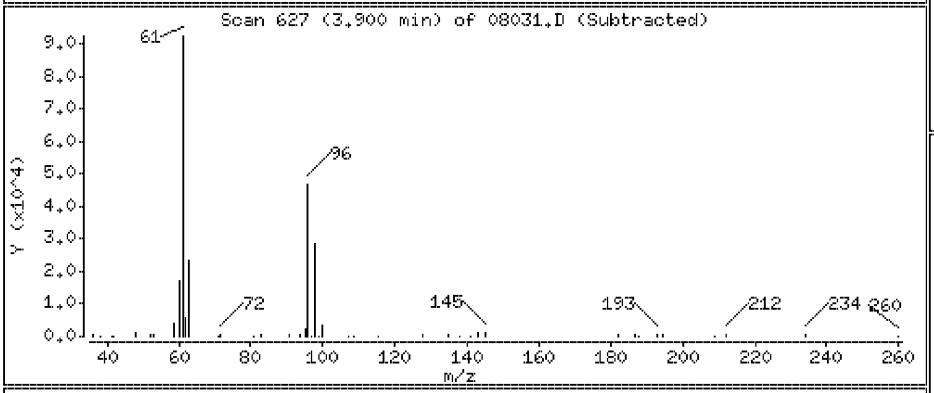
Column diameter: 0.32

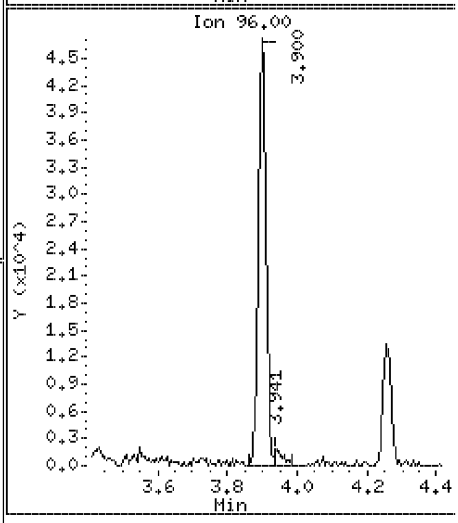
20 1,1-Dichloroethene

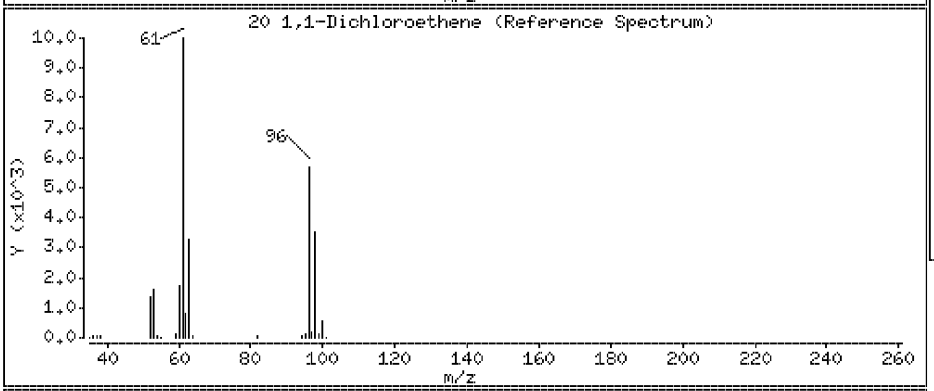
Concentration: 1.92 ppbv

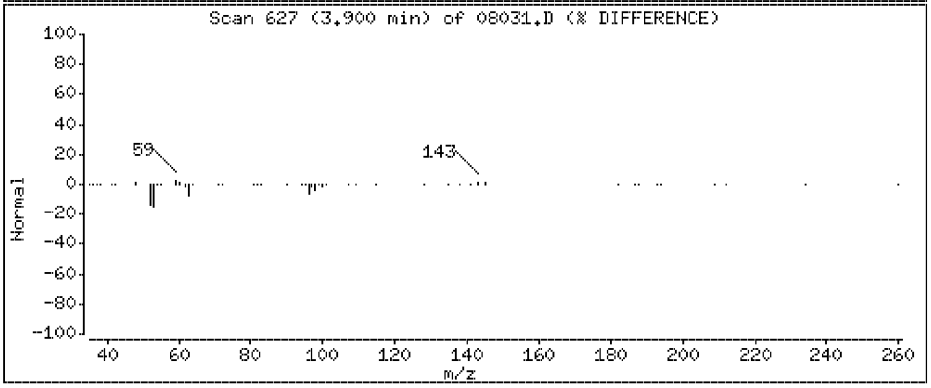












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

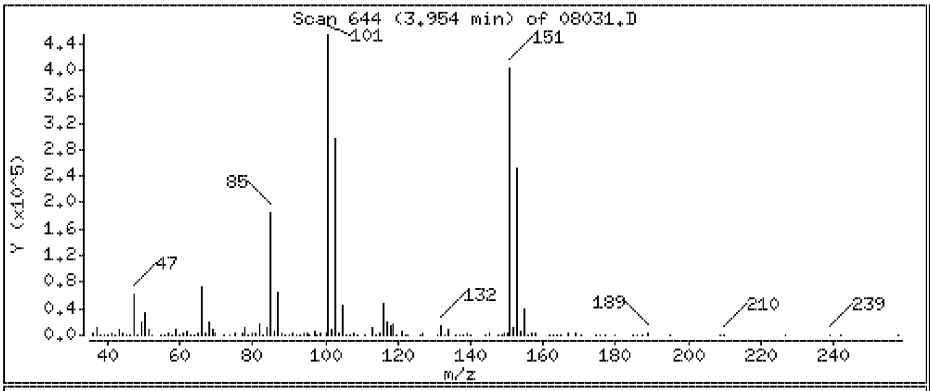
Operator: NCK

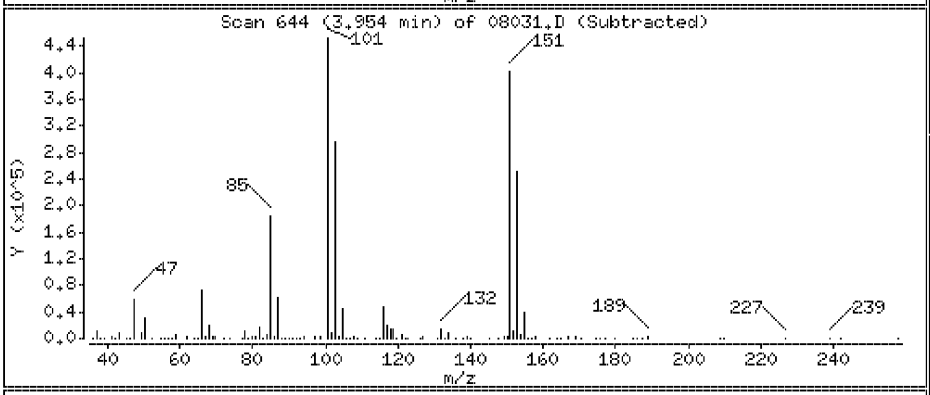
Column phase: J&W DB-5

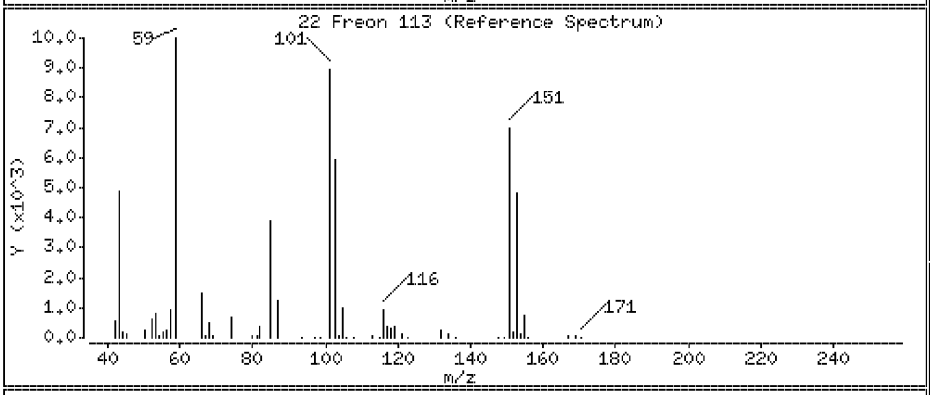
Column diameter: 0.32

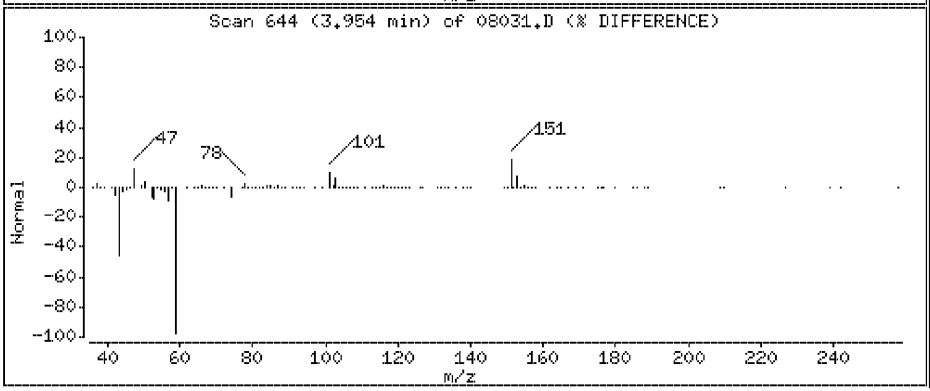
22 Freon 113

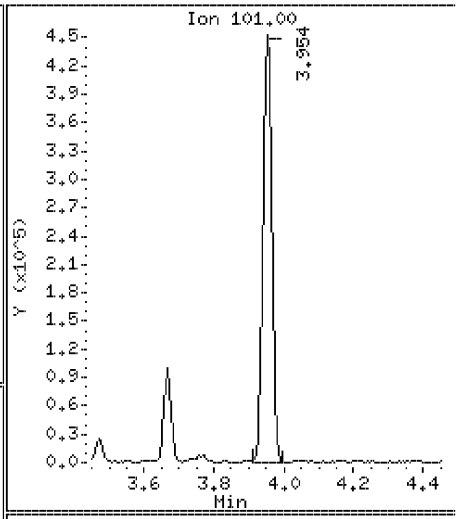
Concentration: 10.5 ppbv

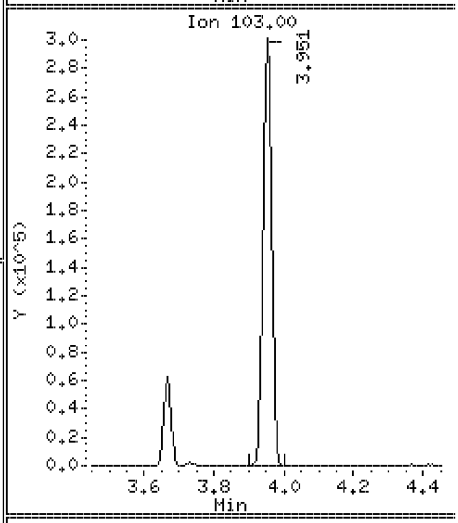


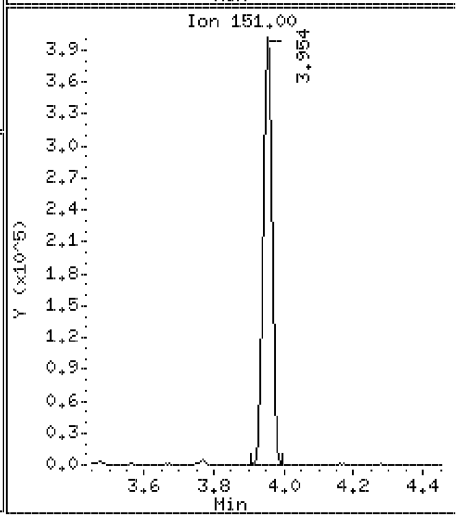












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

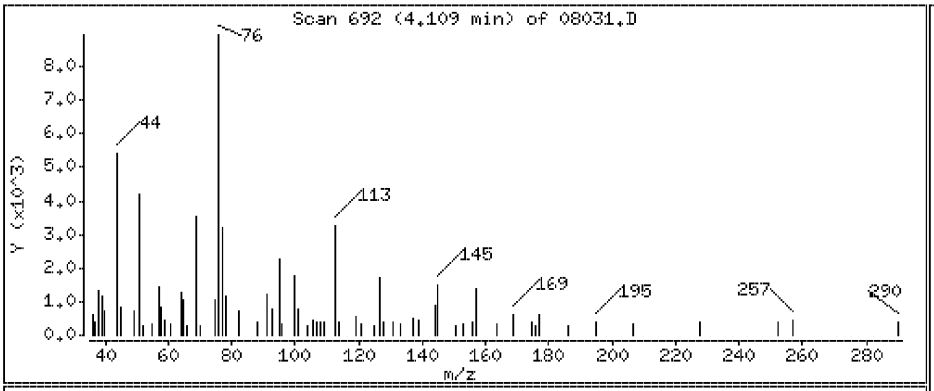
Operator: NCK

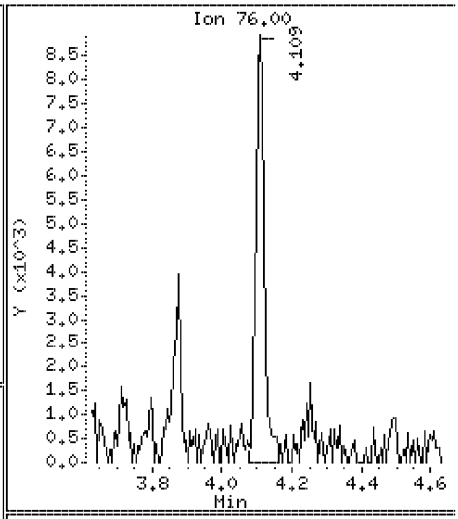
Column phase: J&W DB-5

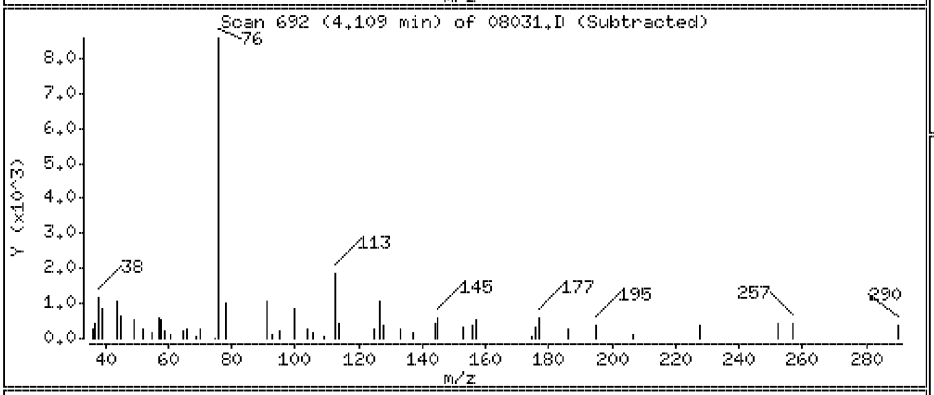
Column diameter: 0.32

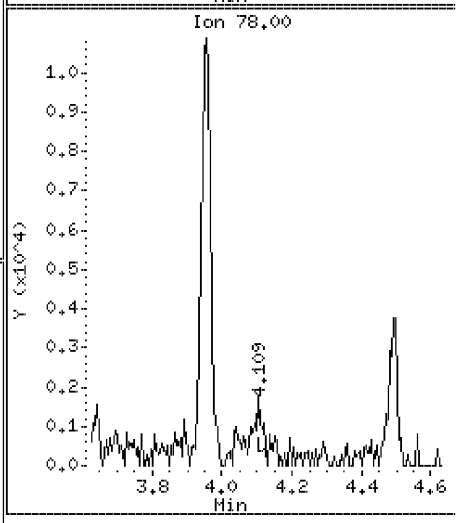
27 Carbon Disulfide

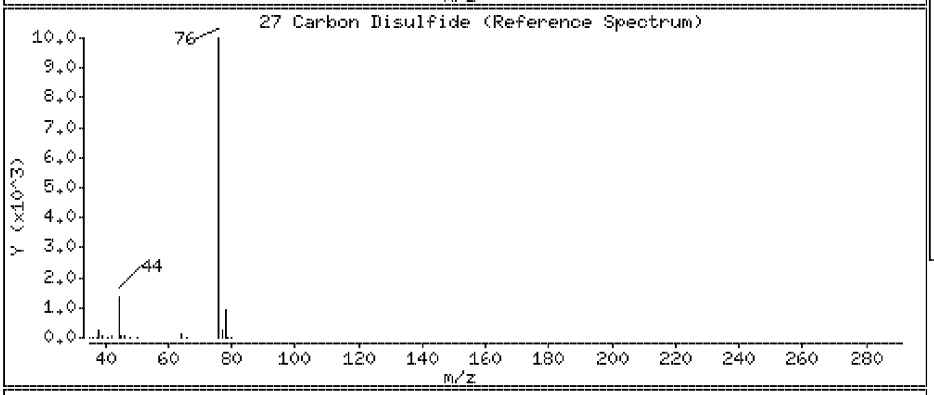
Concentration: 0.186 ppbv

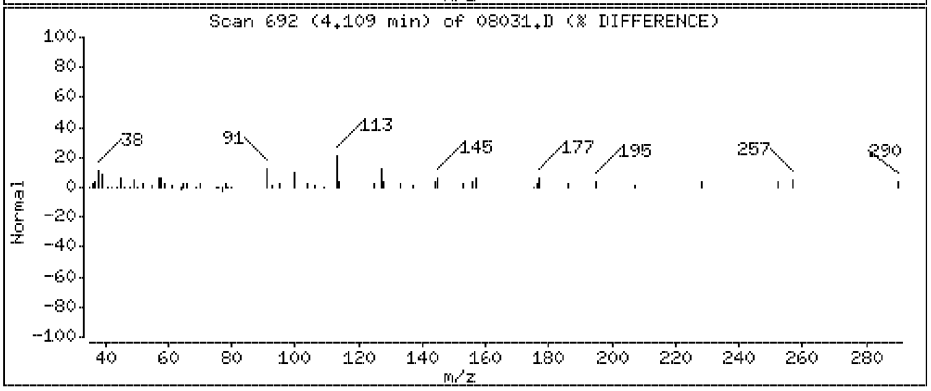












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

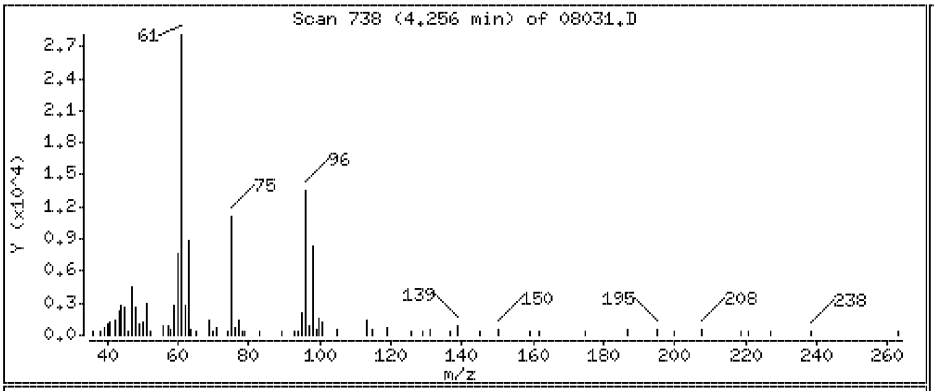
Operator: NCK

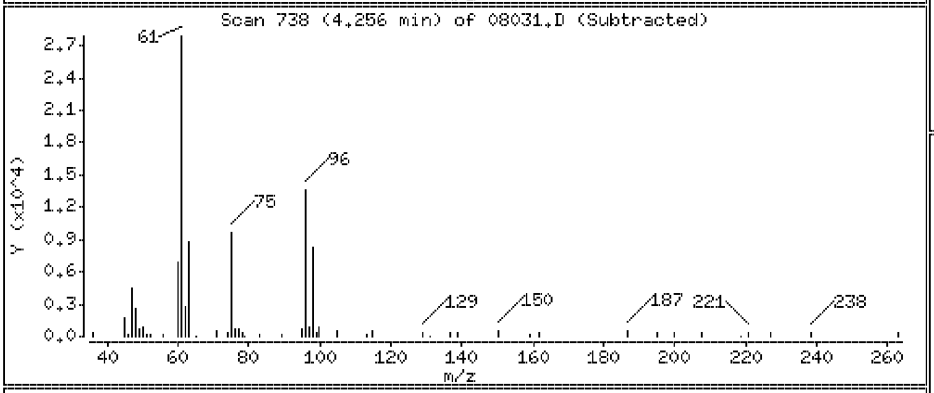
Column phase: J&W DB-5

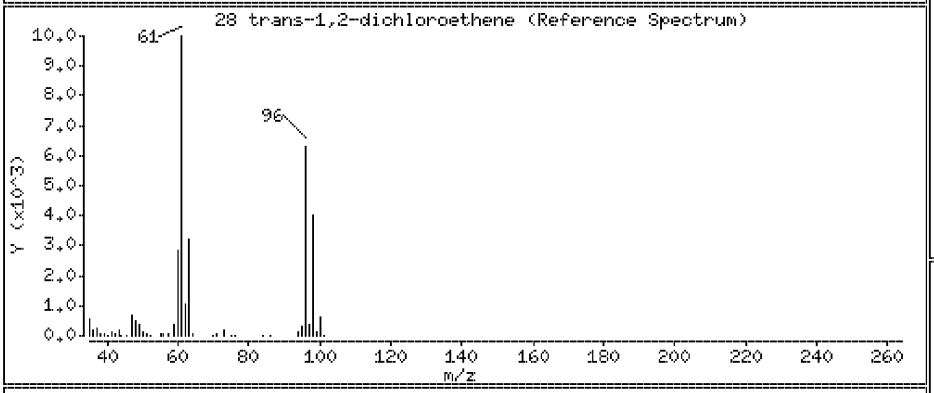
Column diameter: 0.32

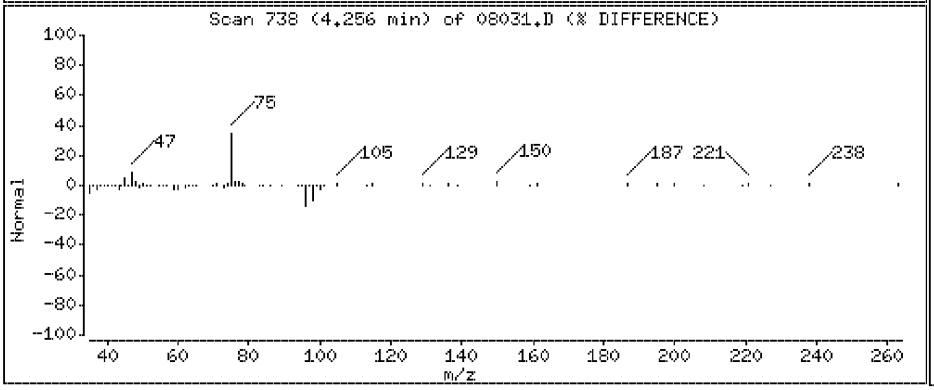
28 trans-1,2-dichloroethene

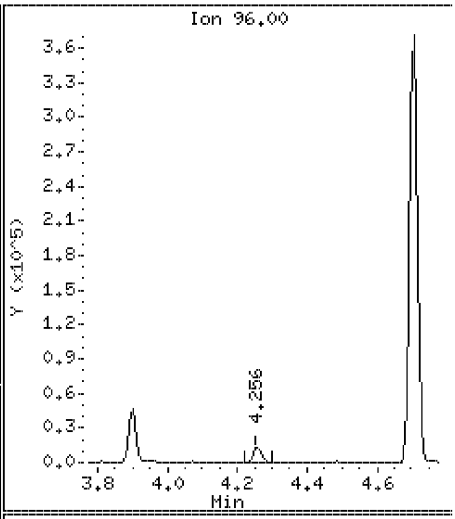
Concentration: 0.620 ppbv

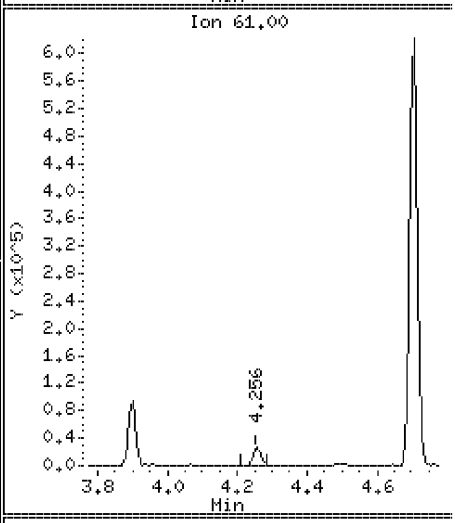


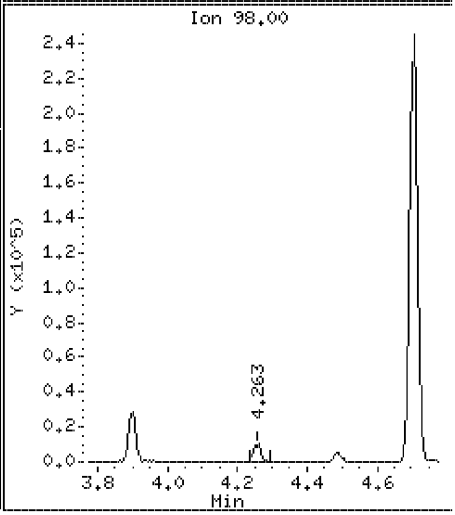












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

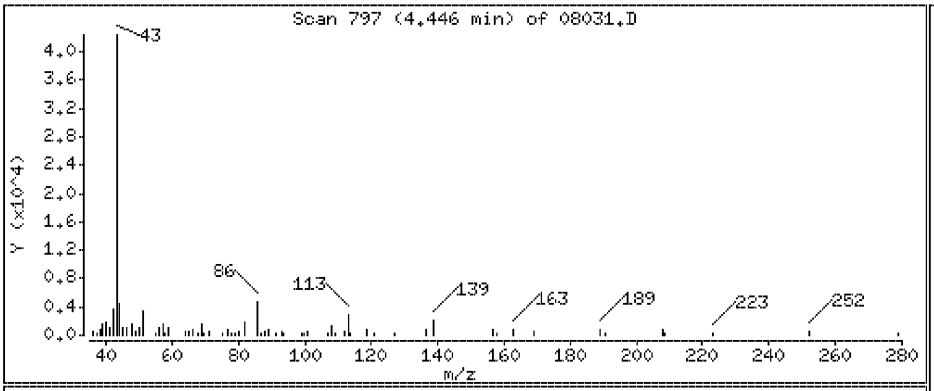
Operator: NCK

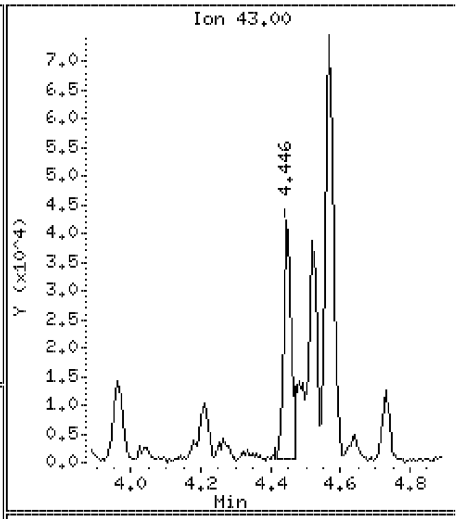
Column phase: J&W DB-5

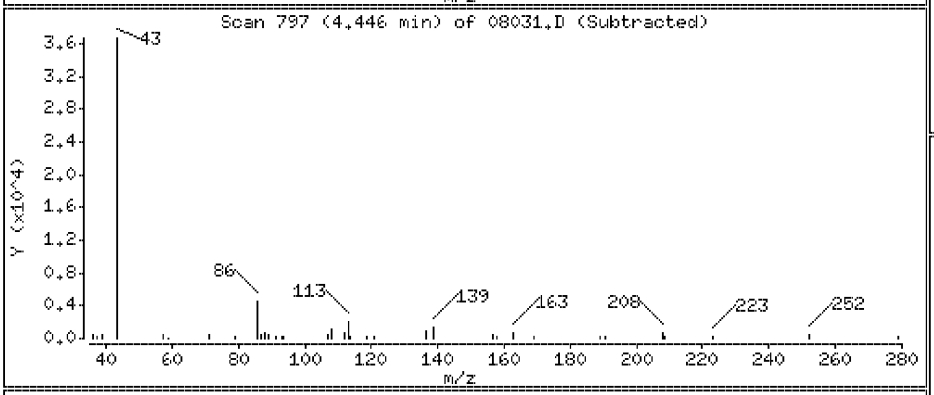
Column diameter: 0.32

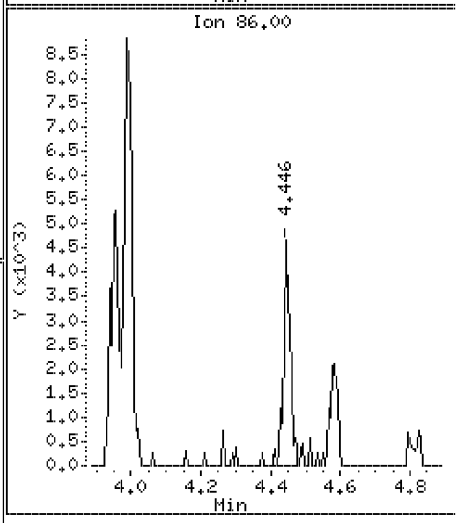
30 Vinyl Acetate

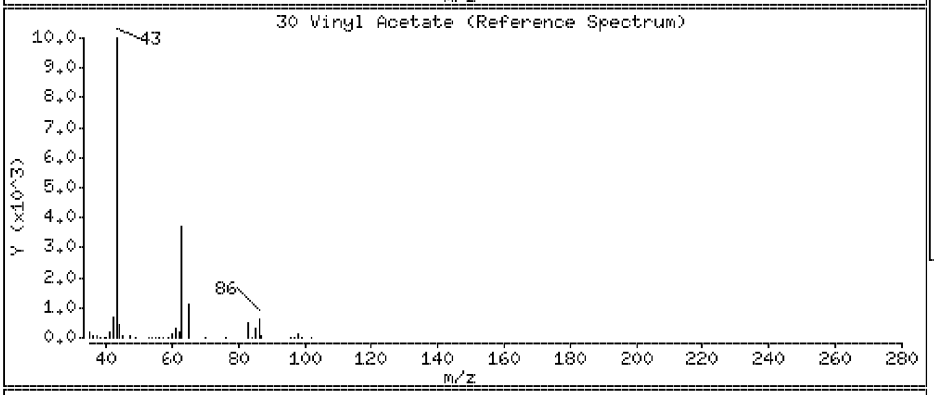
Concentration: 0.526 ppbv

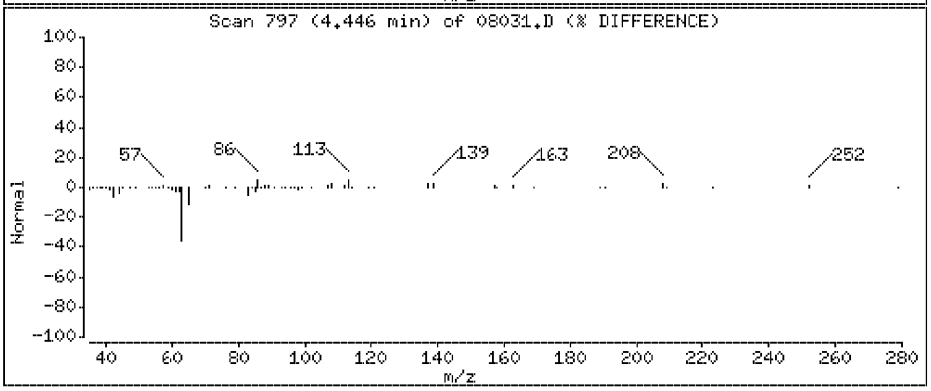












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

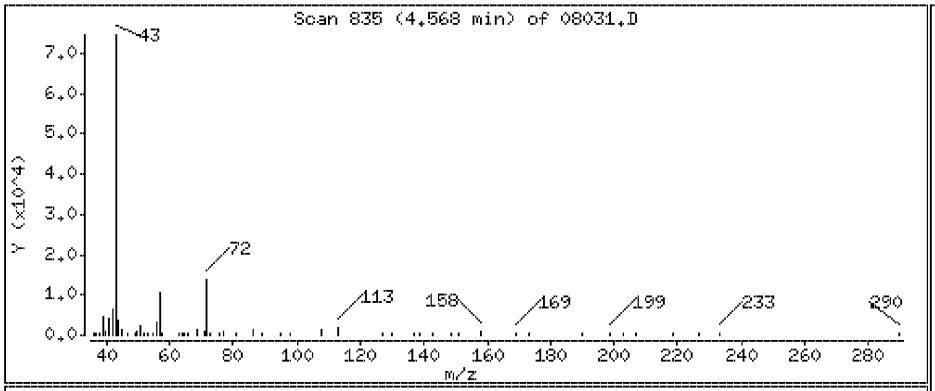
Operator: NCK

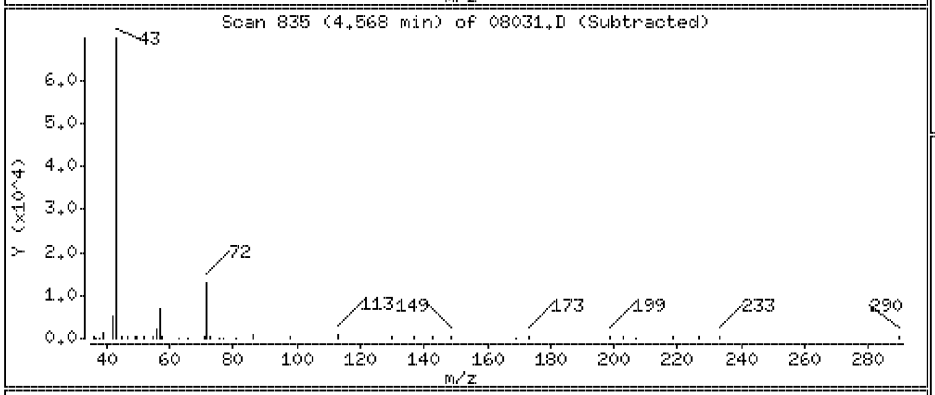
Column phase: J&W DB-5

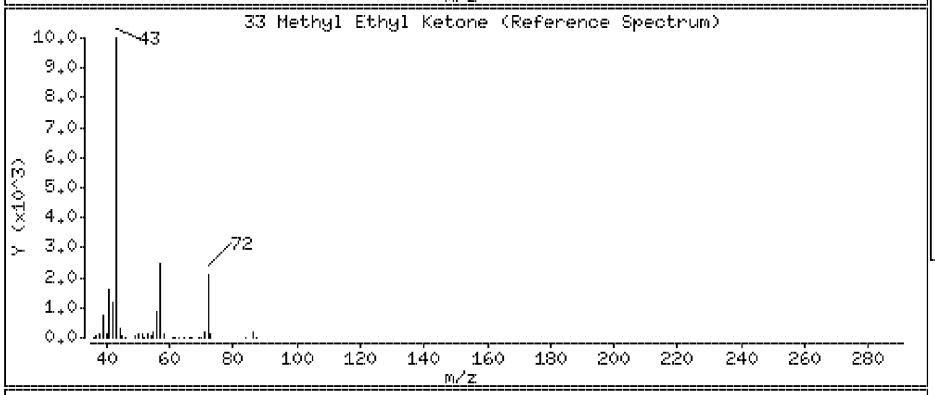
Column diameter: 0.32

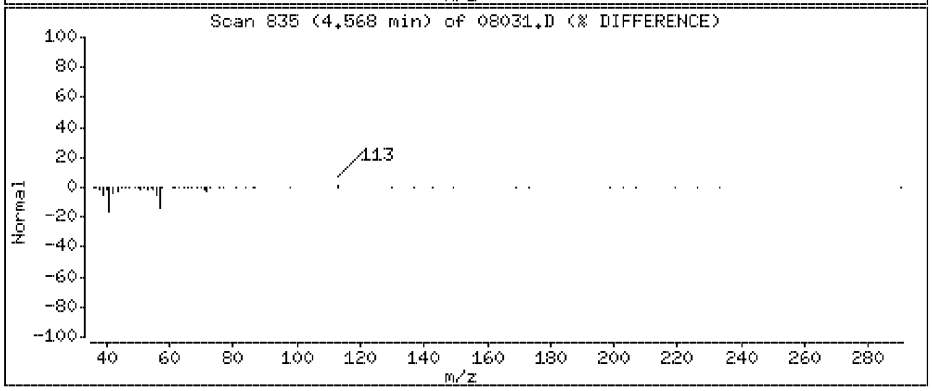
33 Methyl Ethyl Ketone

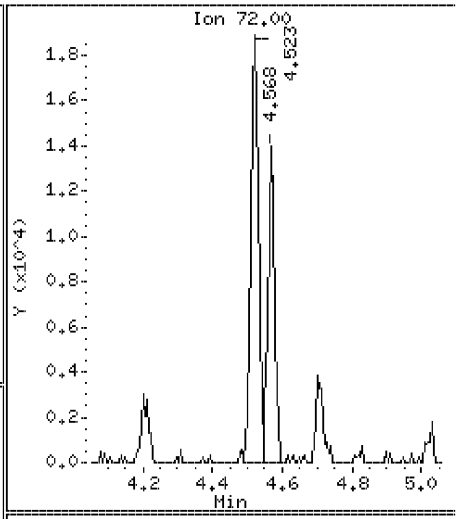
Concentration: 1.01 ppbv

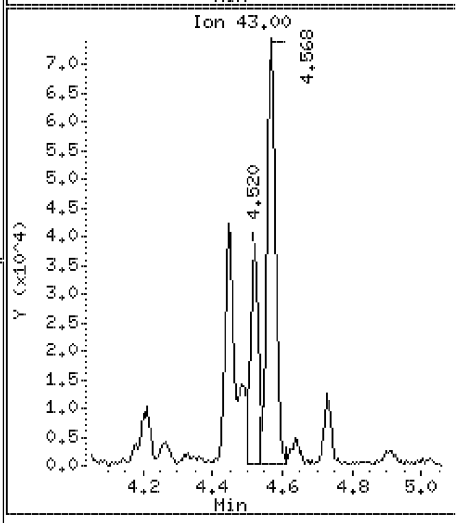












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

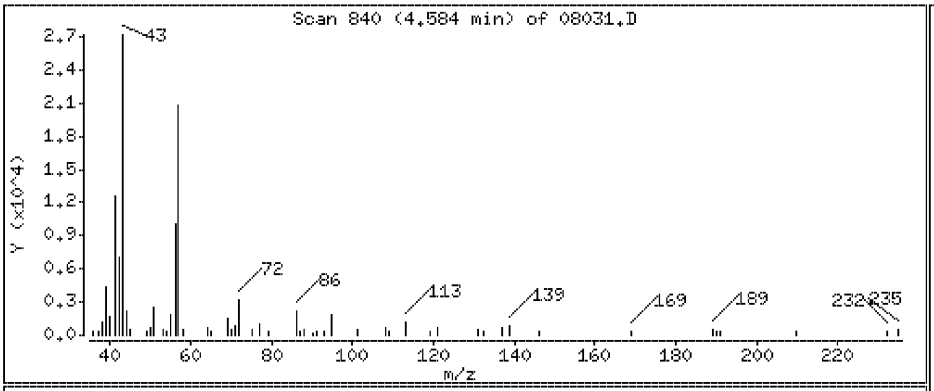
Operator: NCK

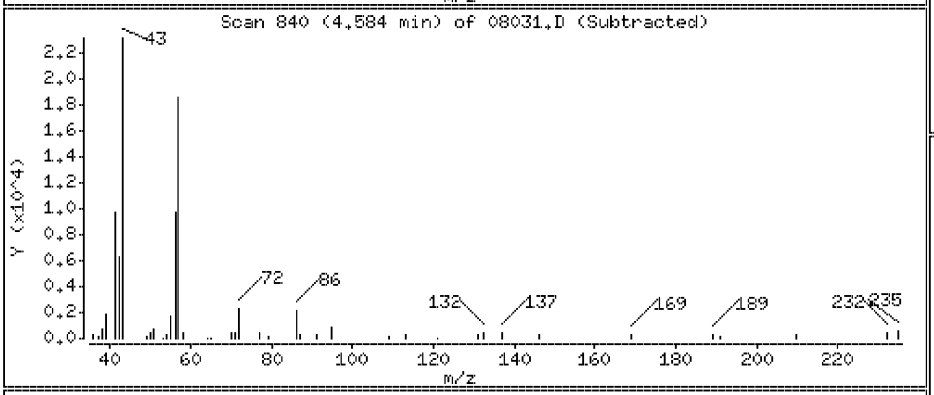
Column phase: J&W DB-5

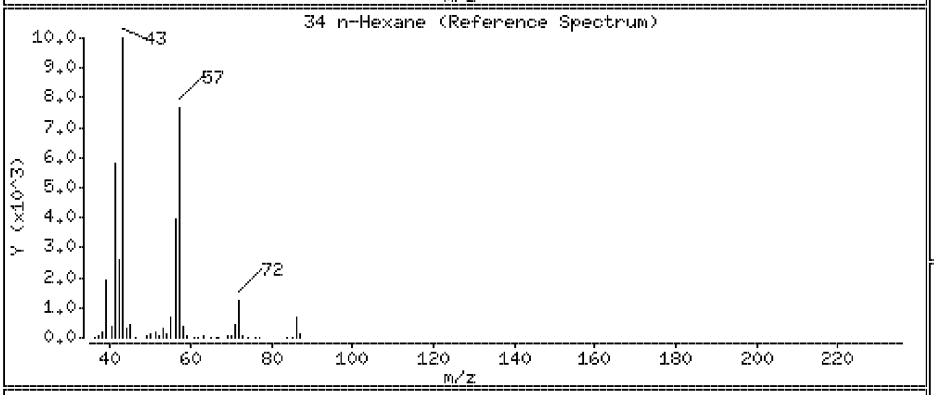
Column diameter: 0.32

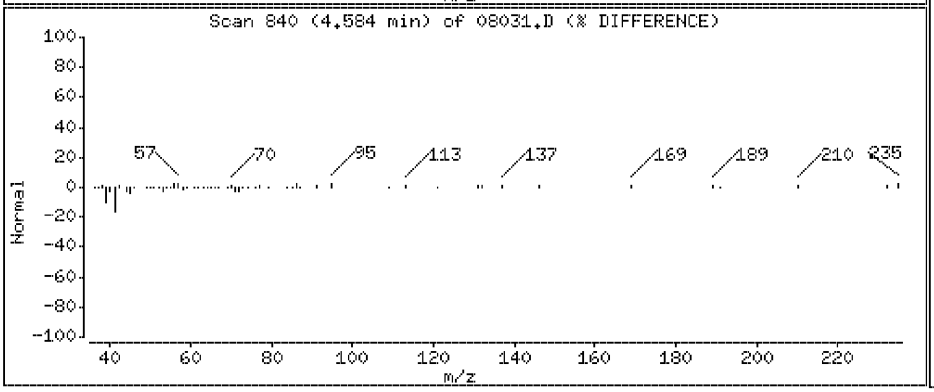
34 n-Hexane

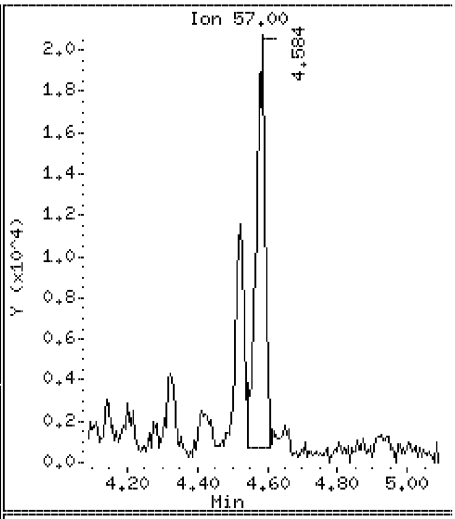
Concentration: 0.415 ppbv

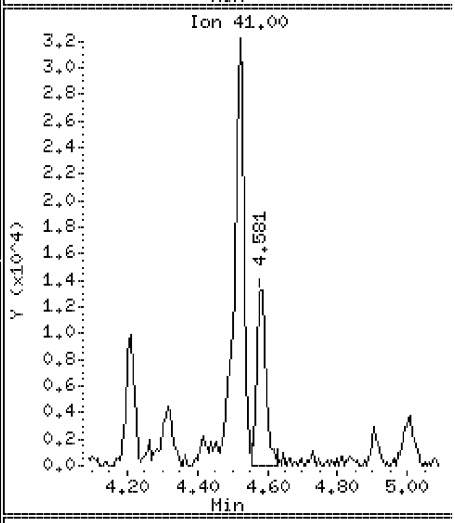


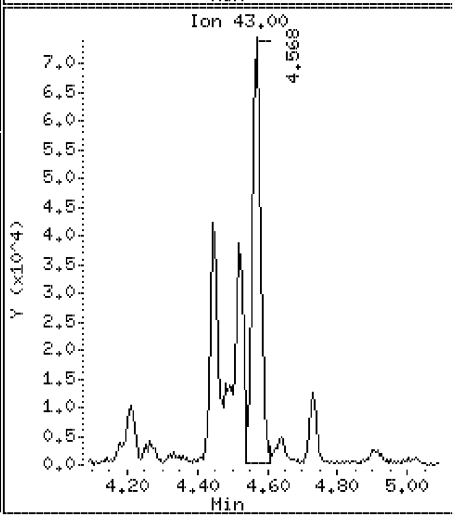












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

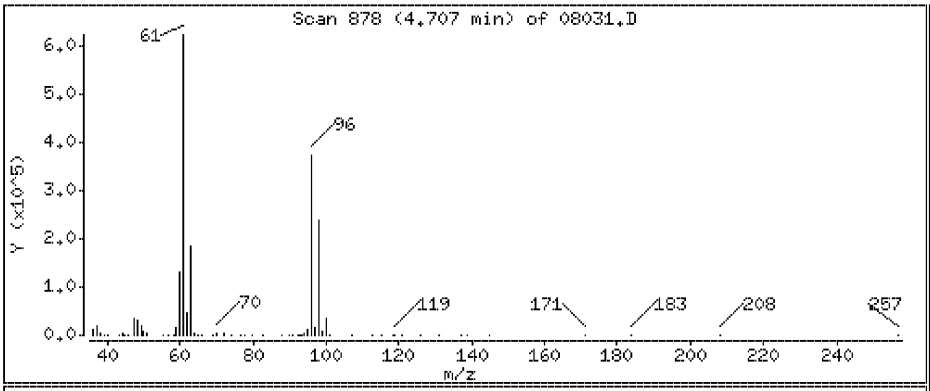
Operator: NCK

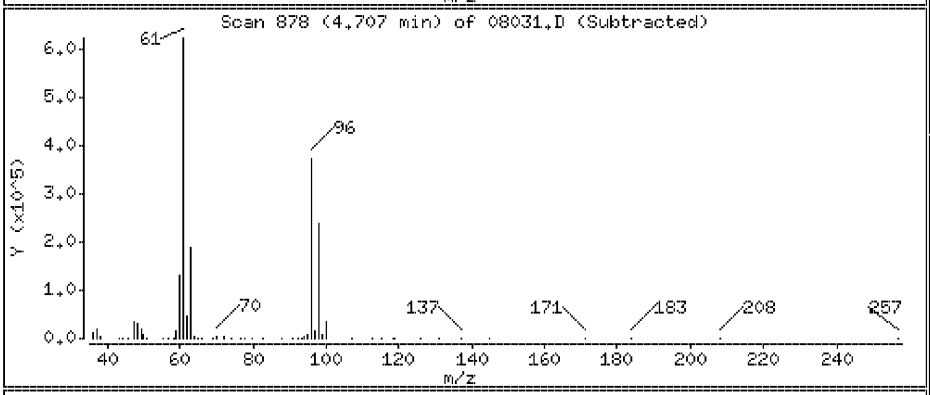
Column phase: J&W DB-5

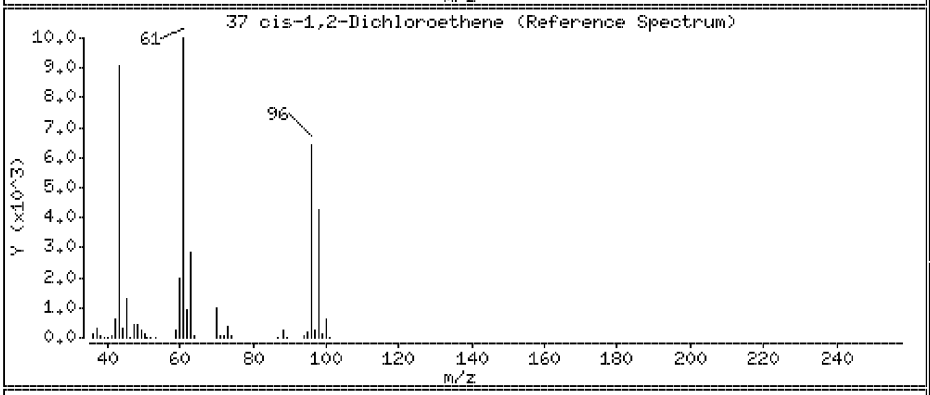
Column diameter: 0.32

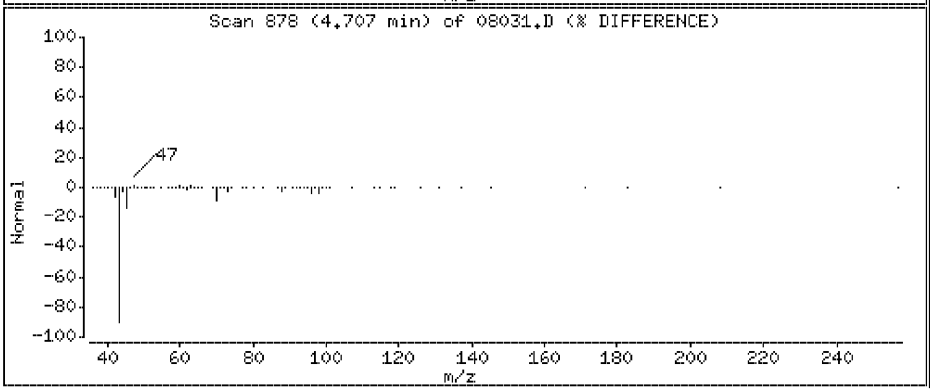
37 cis-1,2-Dichloroethene

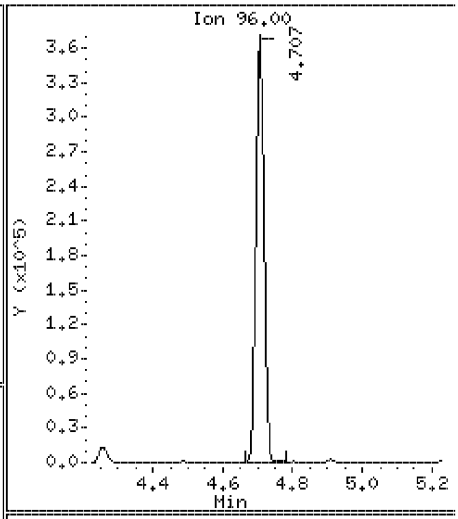
Concentration: 13.8 ppbv

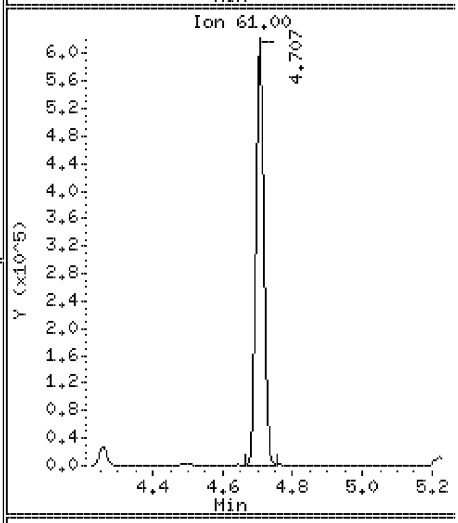


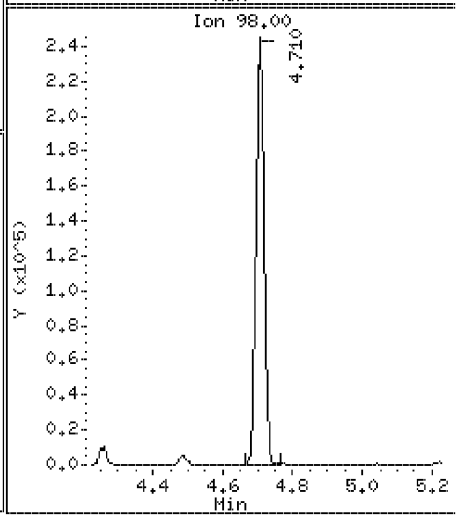












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

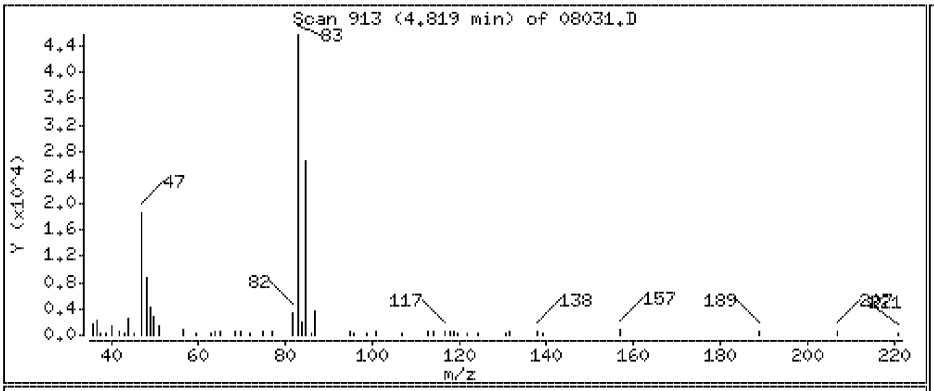
Operator: NCK

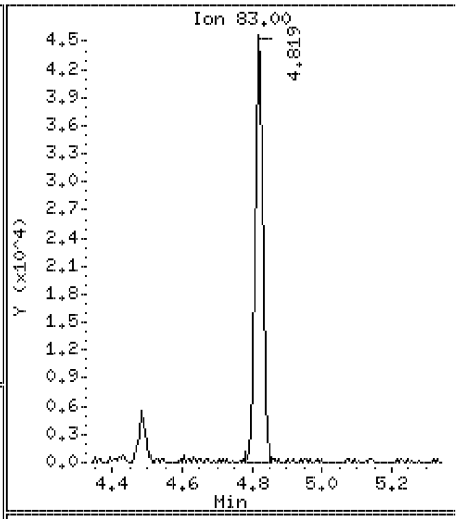
Column phase: J&W DB-5

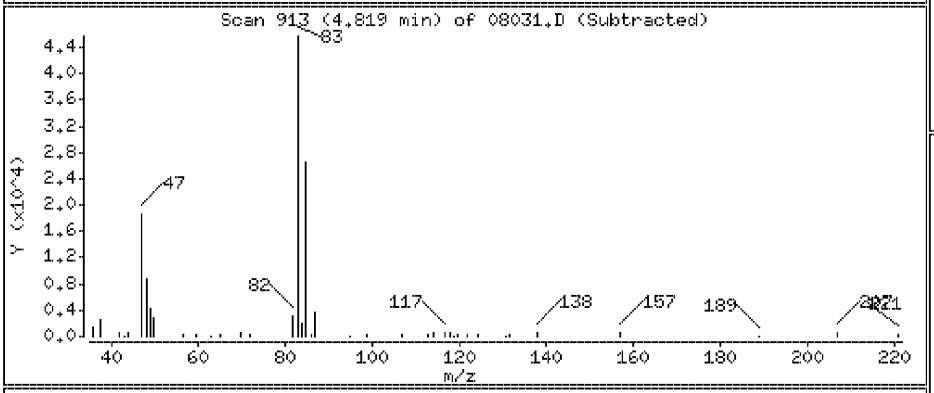
Column diameter: 0.32

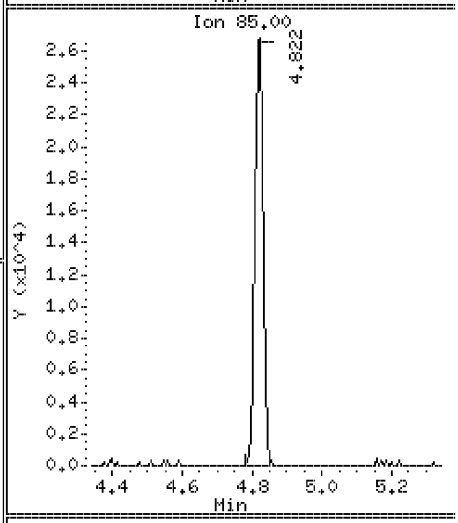
39 Chloroform

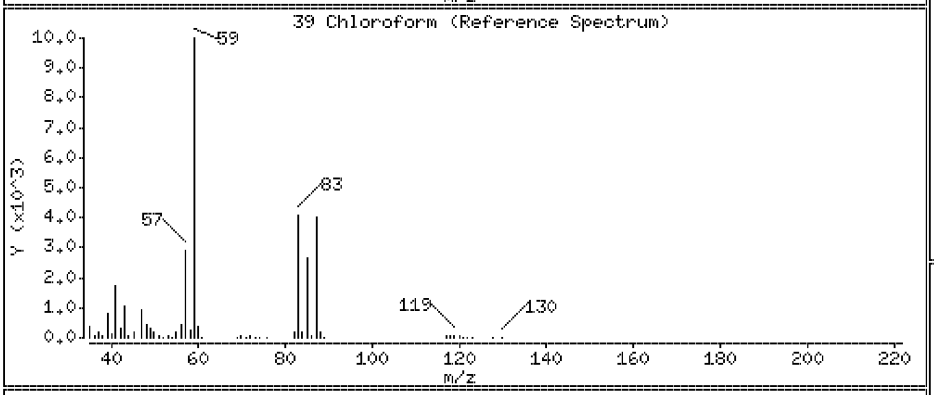
Concentration: 0.771 ppbv

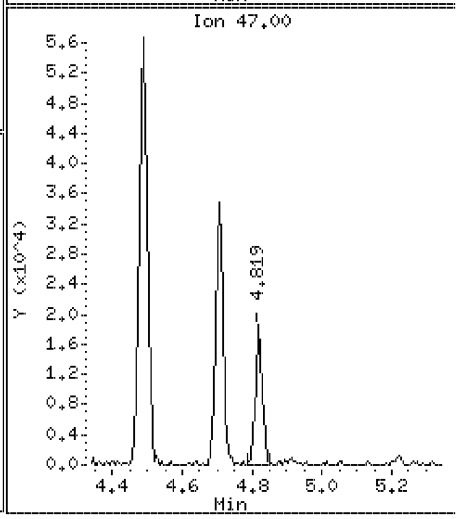


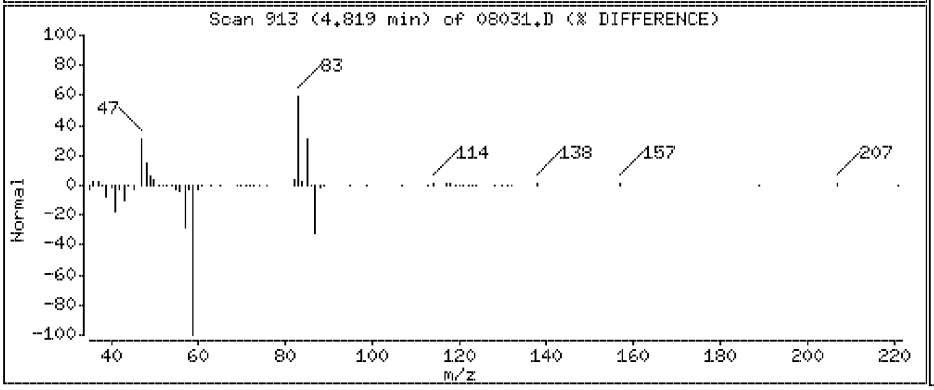












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

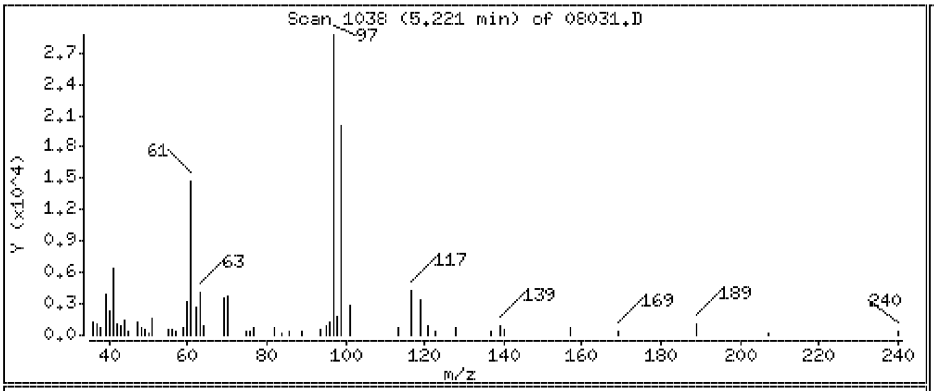
Operator: NCK

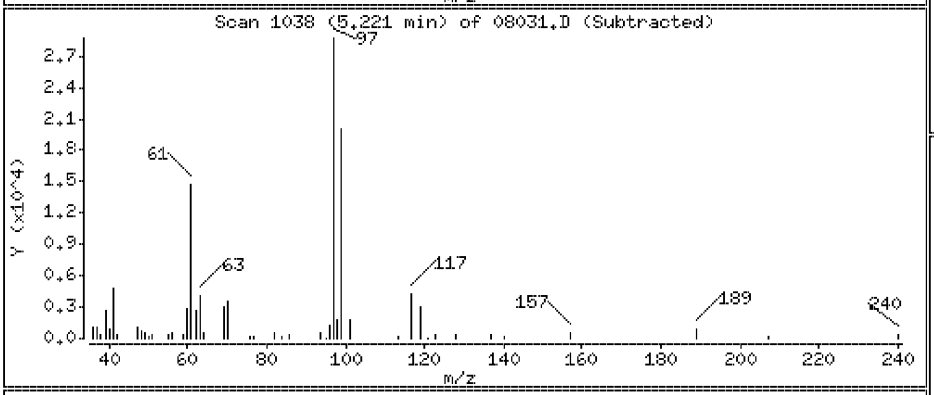
Column phase: J&W DB-5

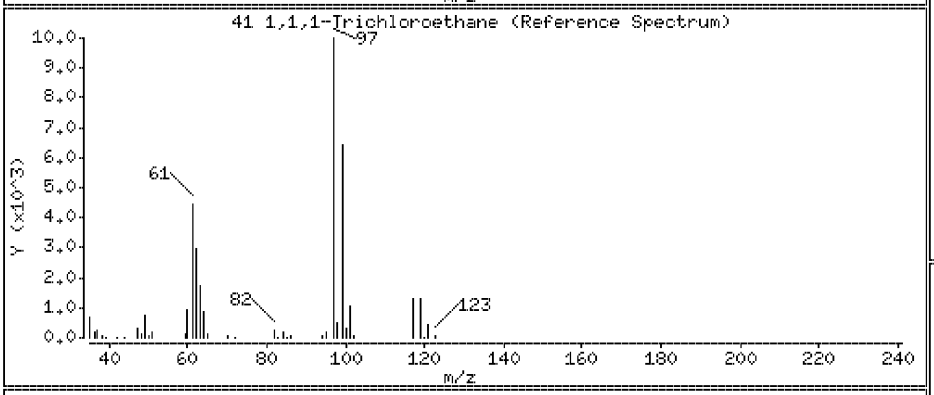
Column diameter: 0.32

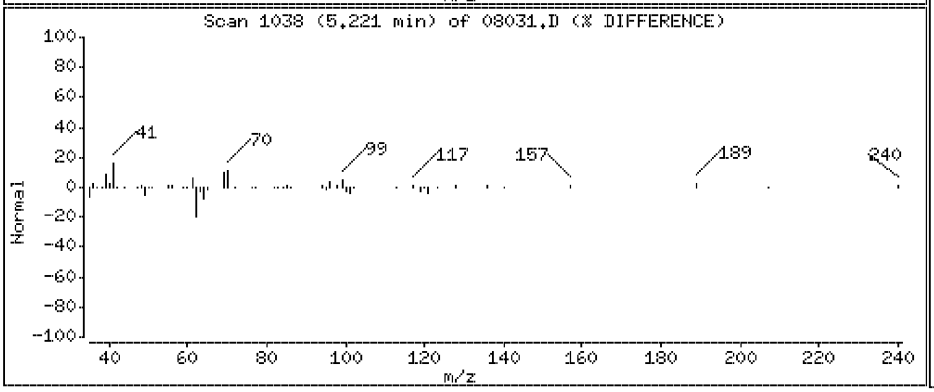
41 1,1,1-Trichloroethane

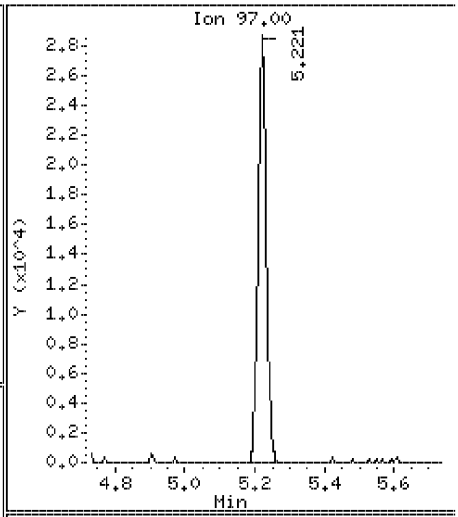
Concentration: 0.438 ppbv

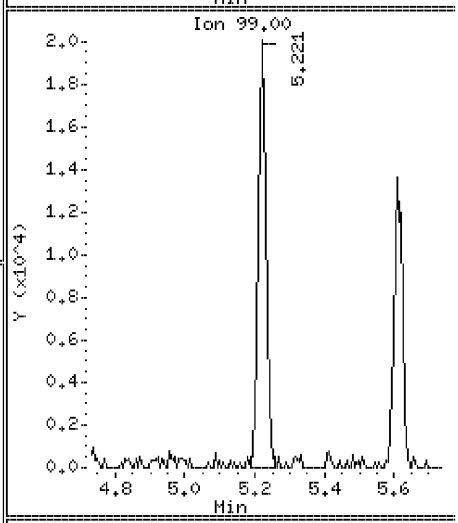


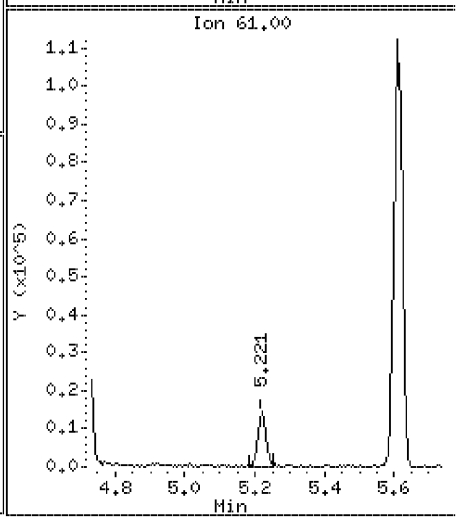












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

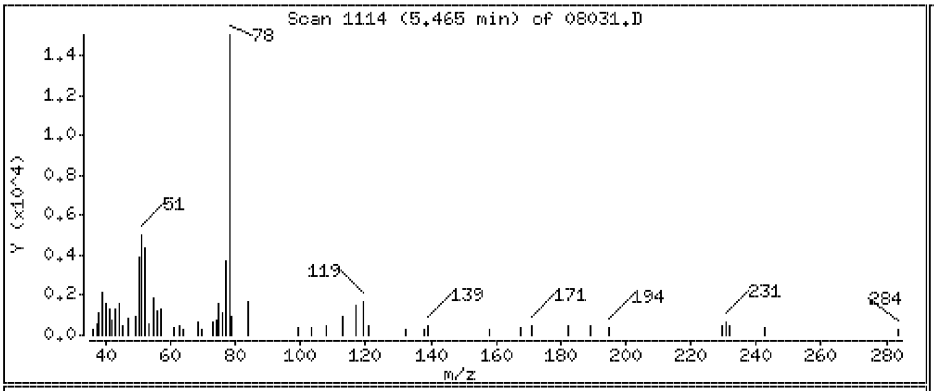
Operator: NCK

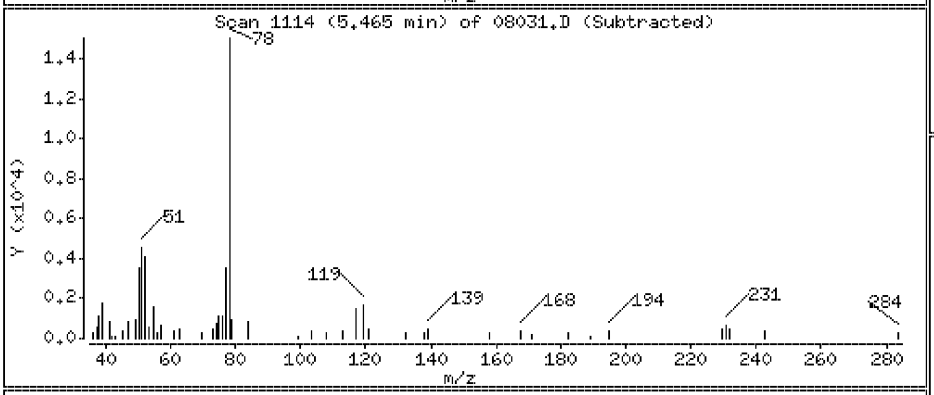
Column phase: J&W DB-5

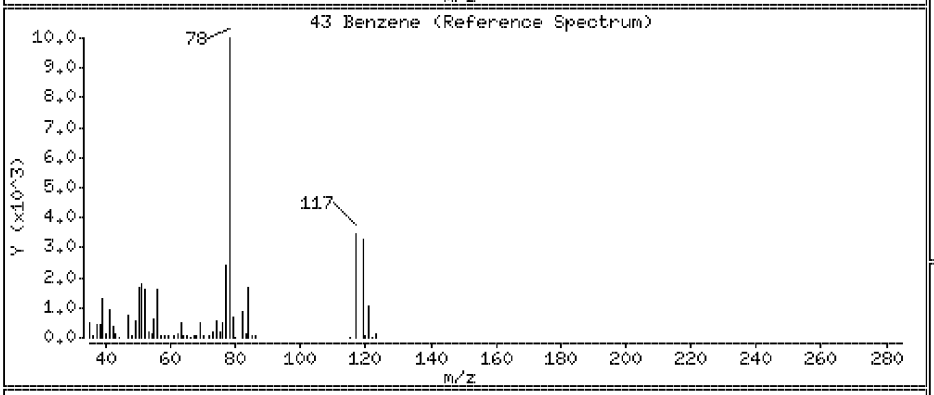
Column diameter: 0.32

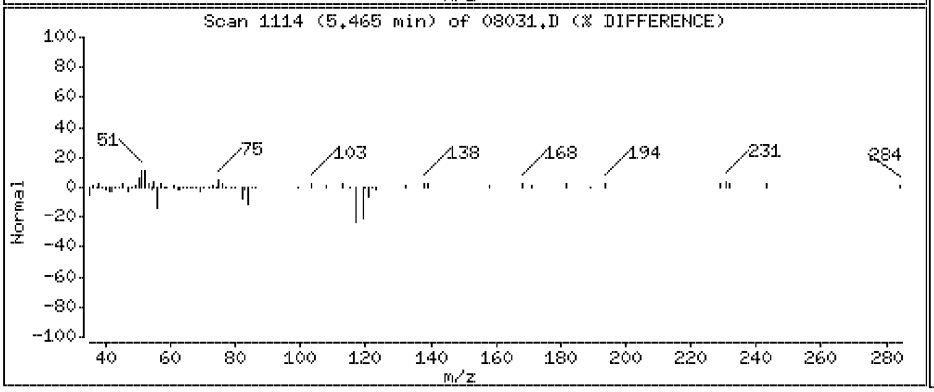
43 Benzene

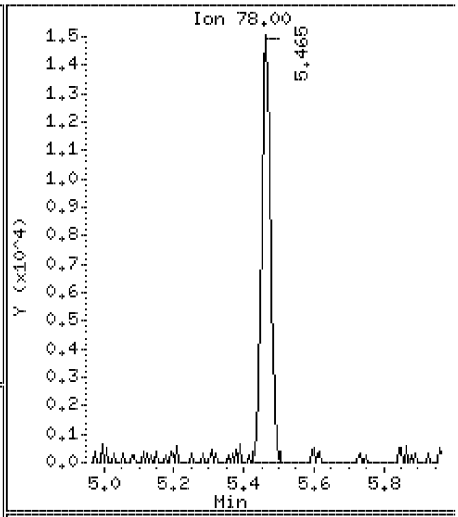
Concentration: 0.183 ppbv

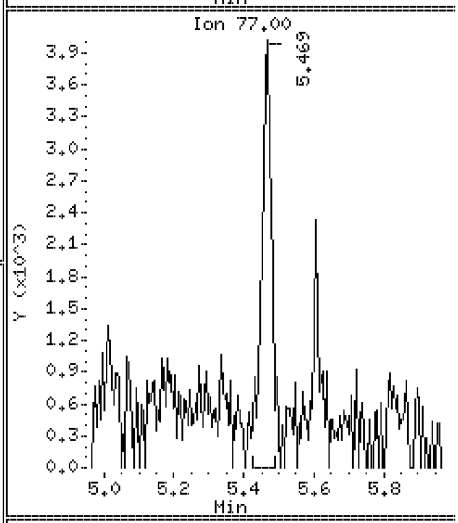


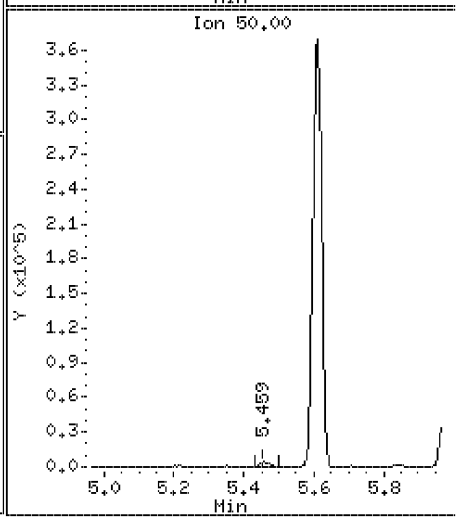












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

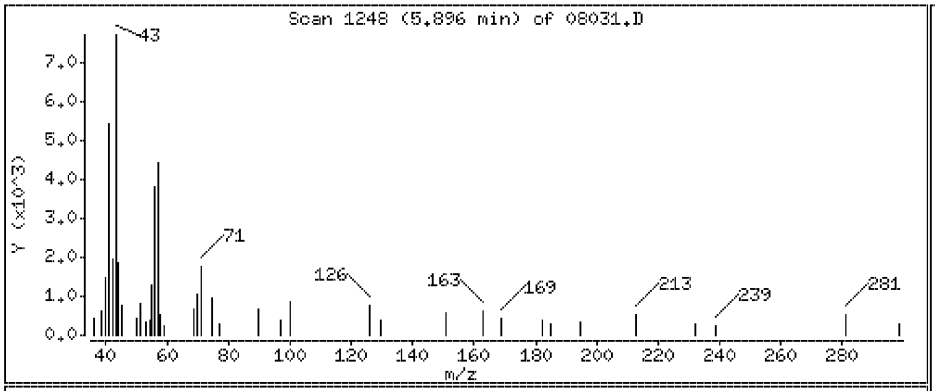
Operator: NCK

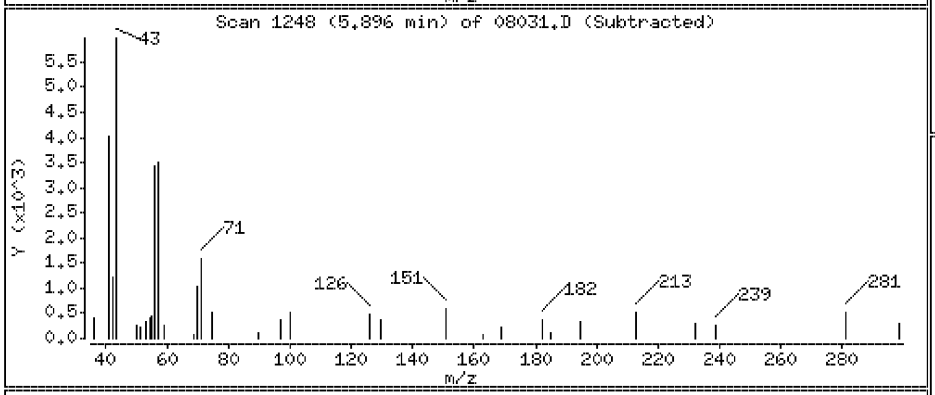
Column phase: J&W DB-5

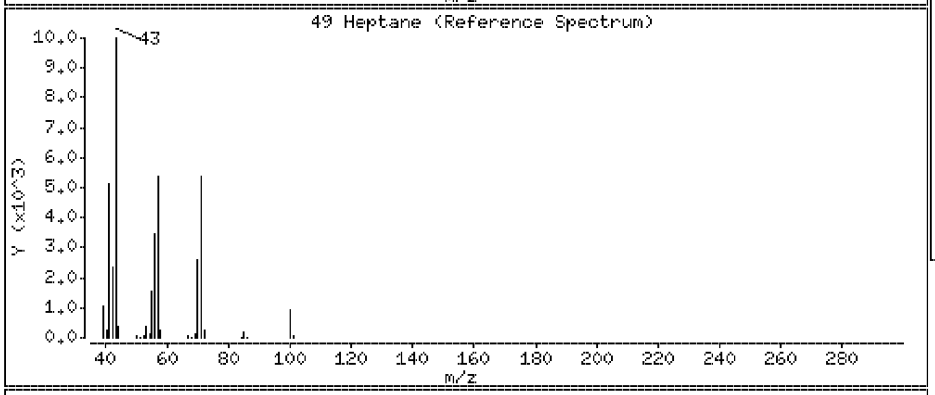
Column diameter: 0.32

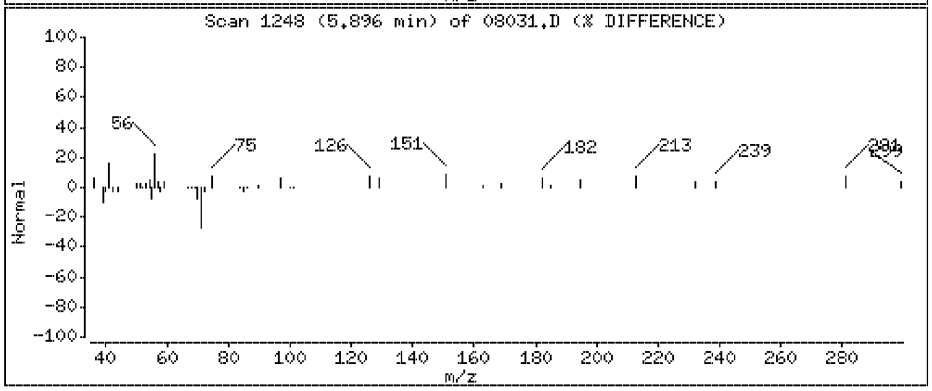
49 Heptane

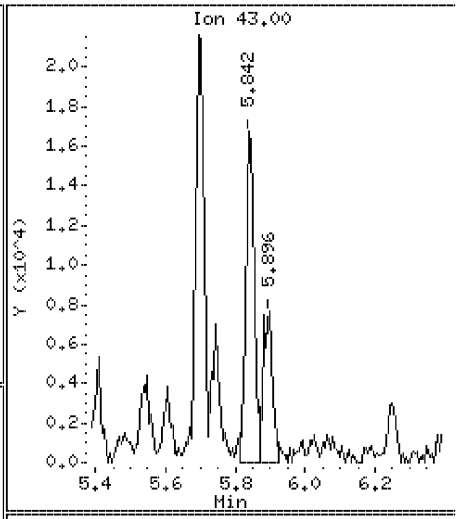
Concentration: 0.143 ppbv

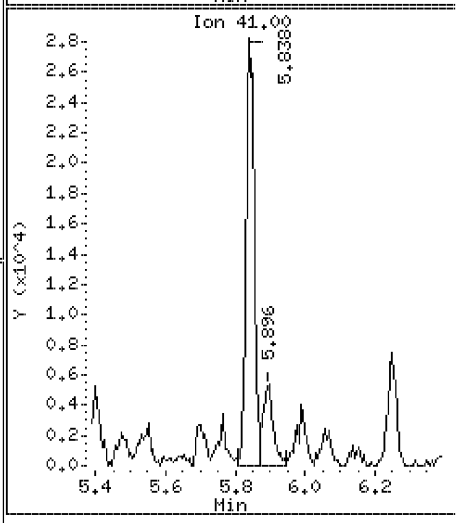












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

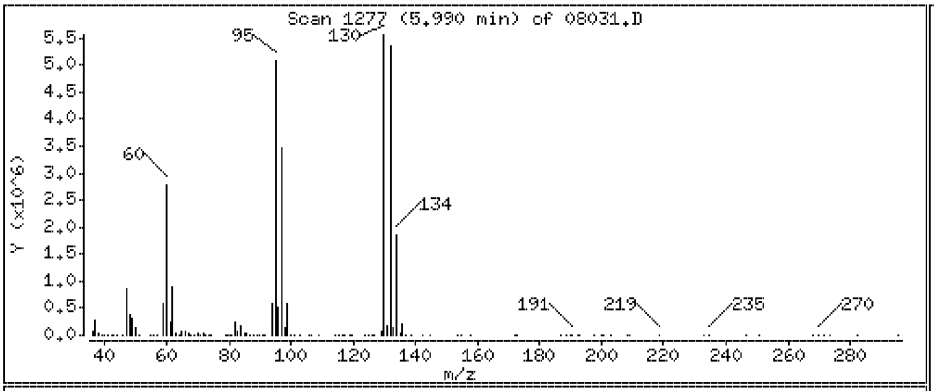
Operator: NCK

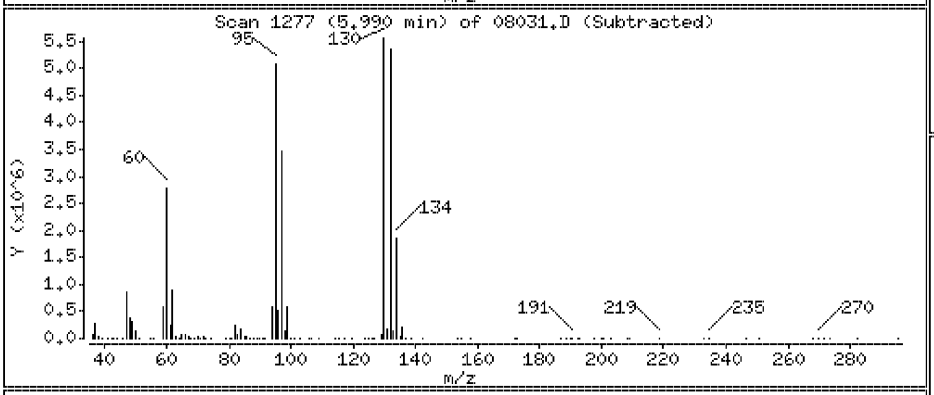
Column phase: J&W DB-5

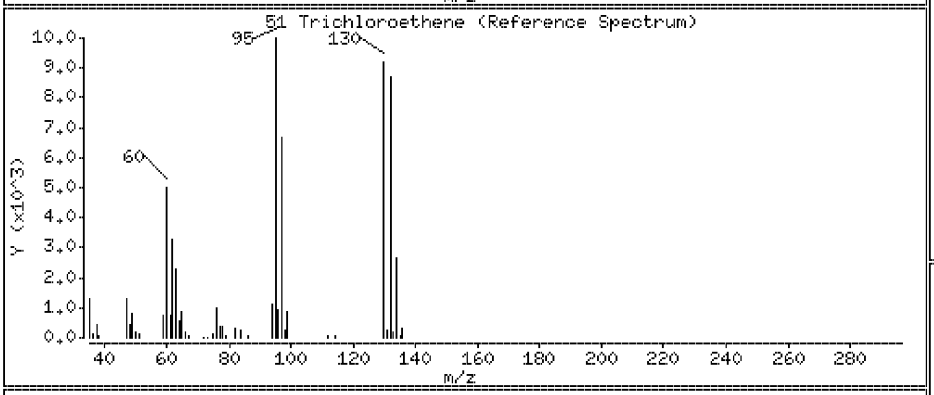
Column diameter: 0.32

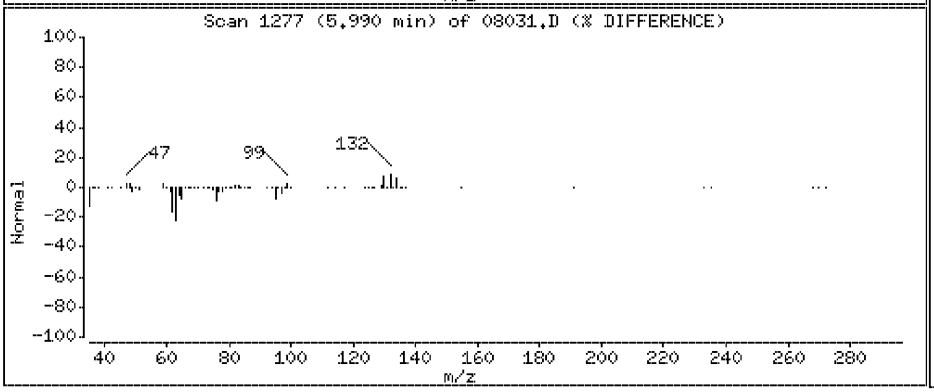
51 Trichloroethene

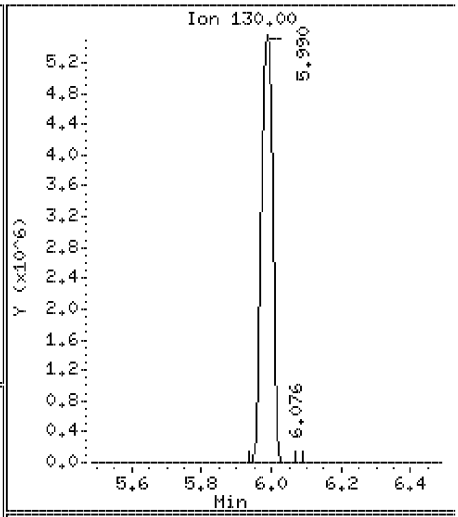
Concentration: 190 ppbv

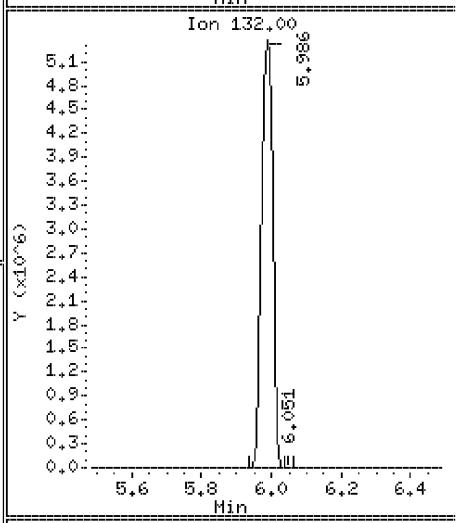


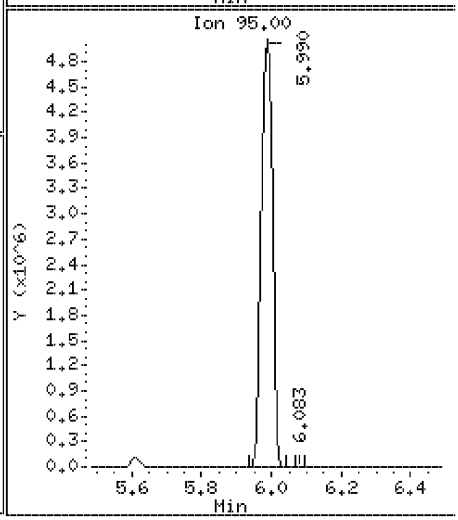












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

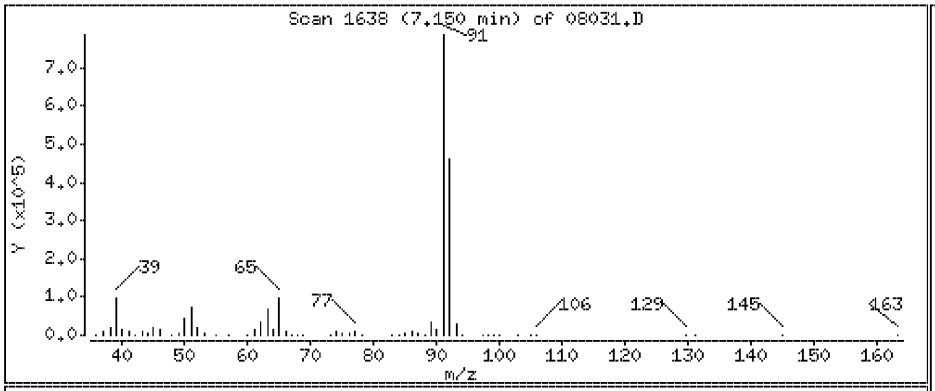
Operator: NCK

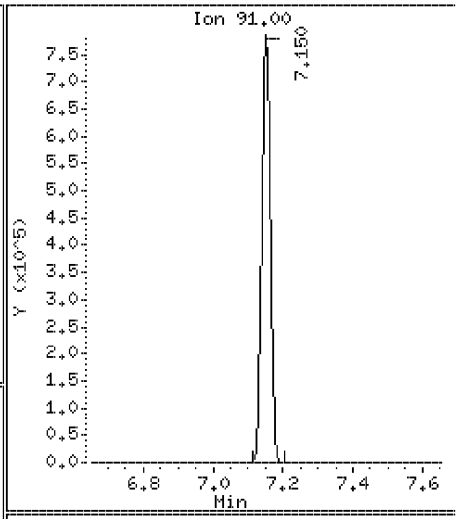
Column phase: J&W DB-5

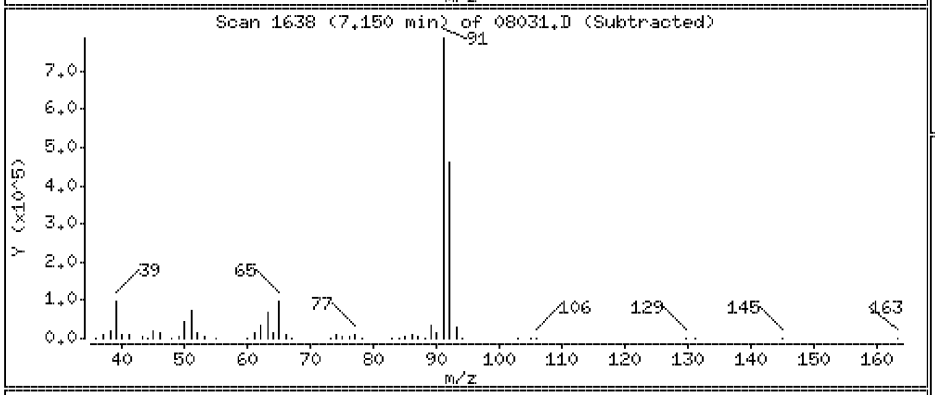
Column diameter: 0.32

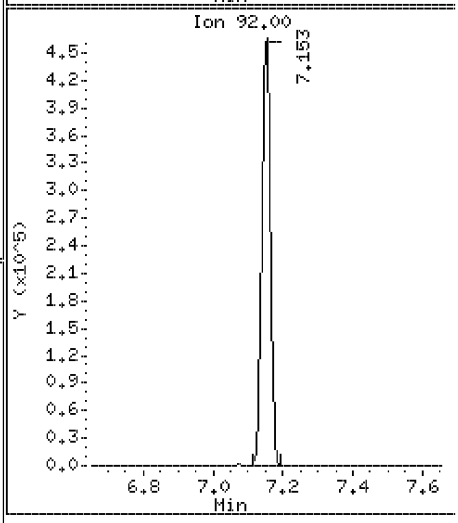
61 Toluene

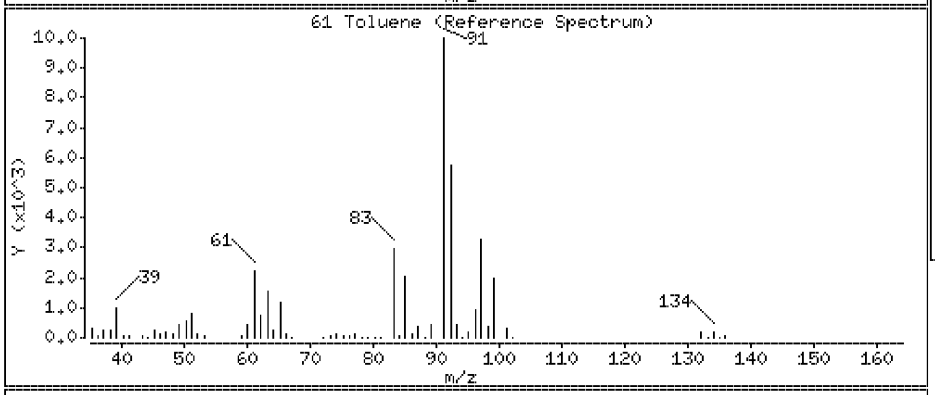
Concentration: 7.94 ppbv

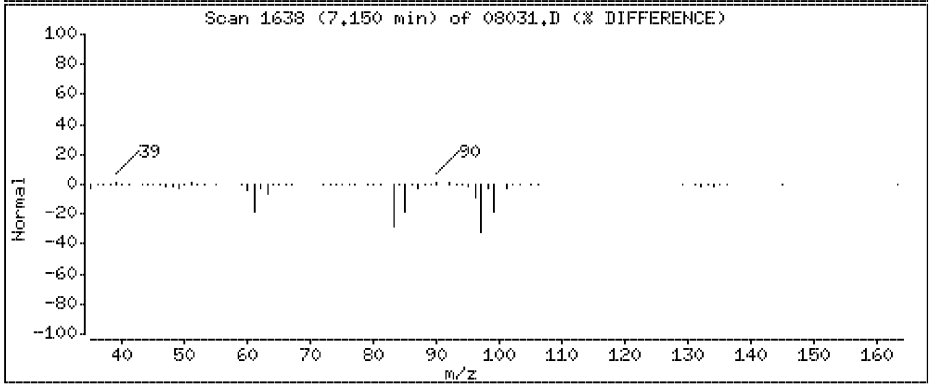












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

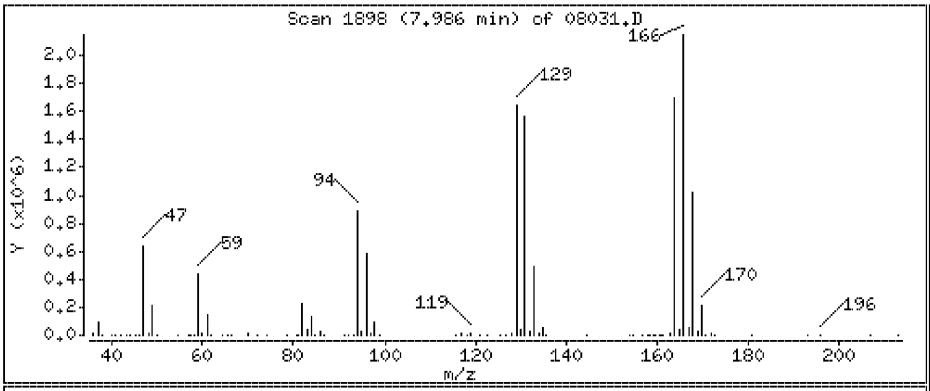
Operator: NCK

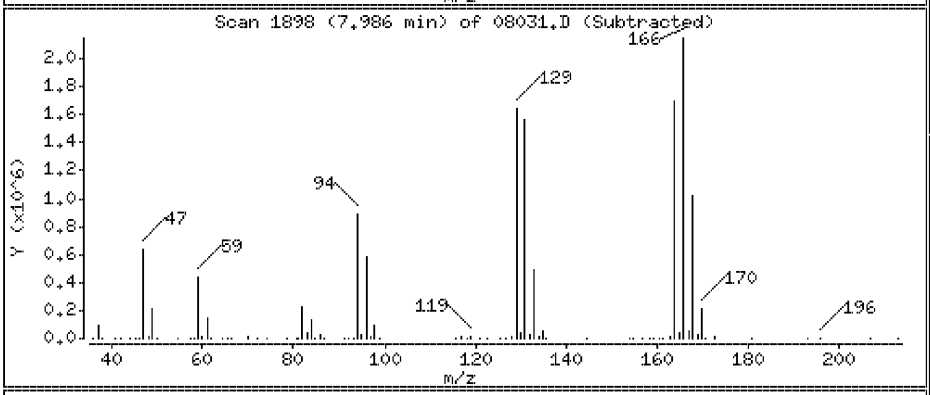
Column phase: J&W DB-5

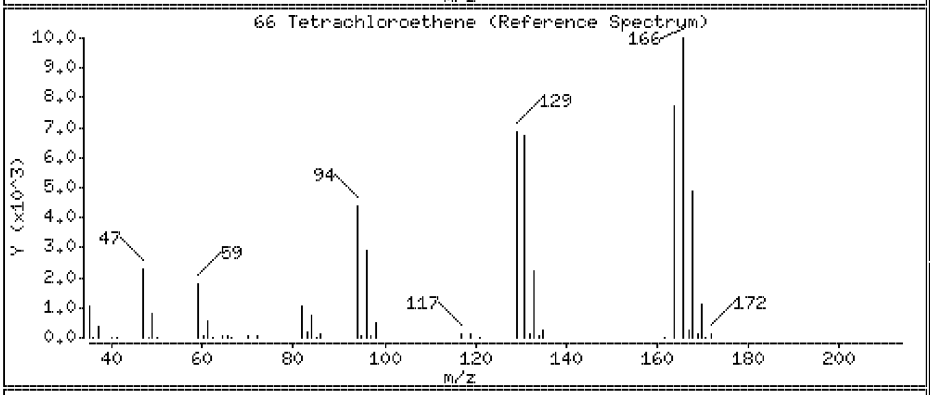
Column diameter: 0.32

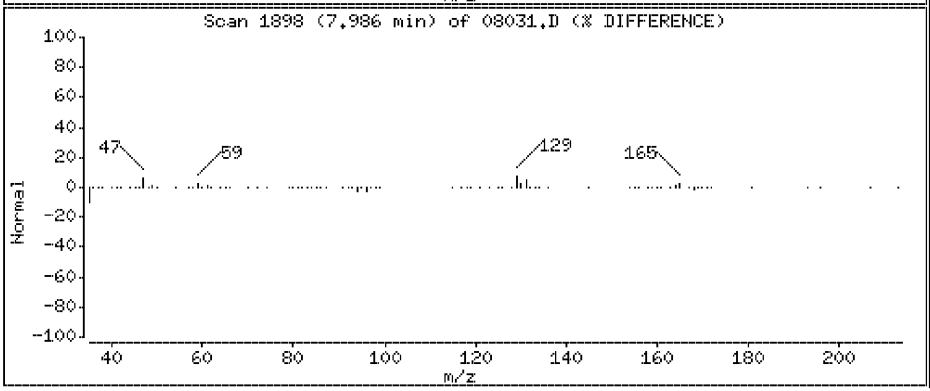
66 Tetrachloroethene

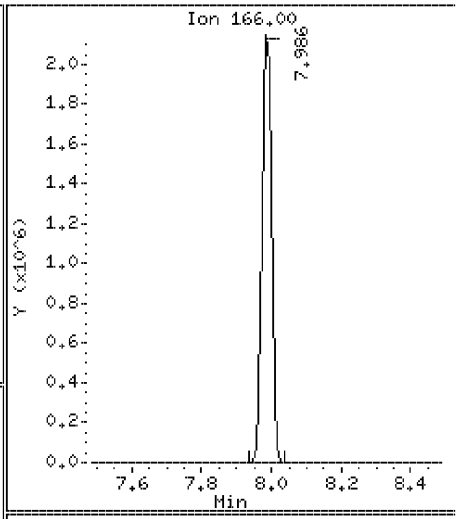
Concentration: 57.3 ppbv

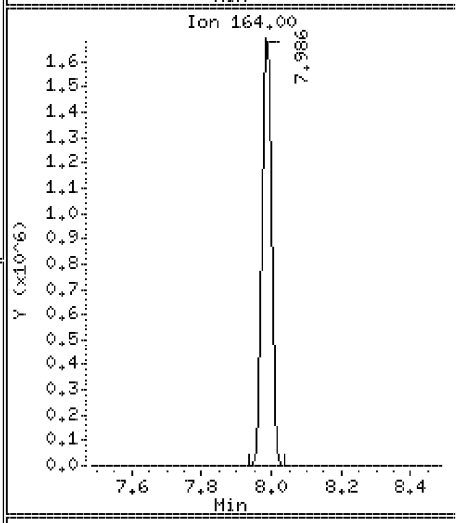


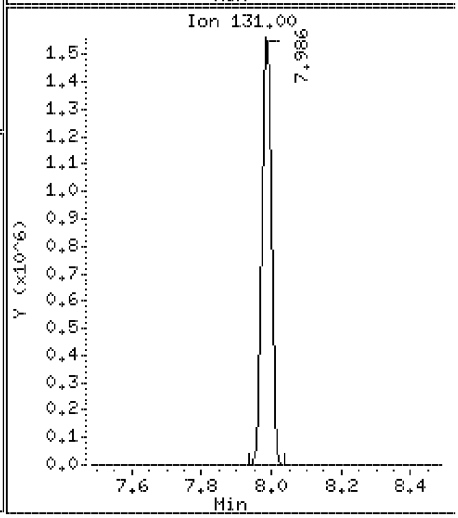












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

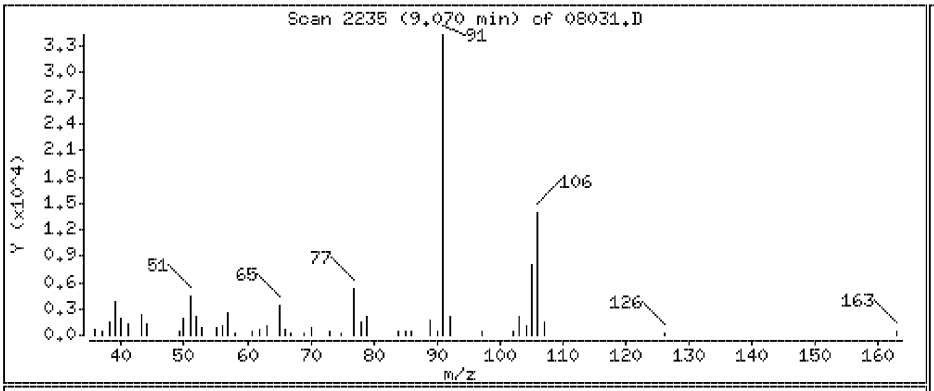
Operator: NCK

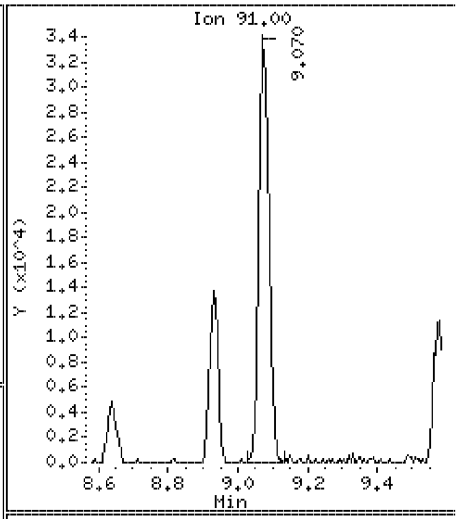
Column phase: J&W DB-5

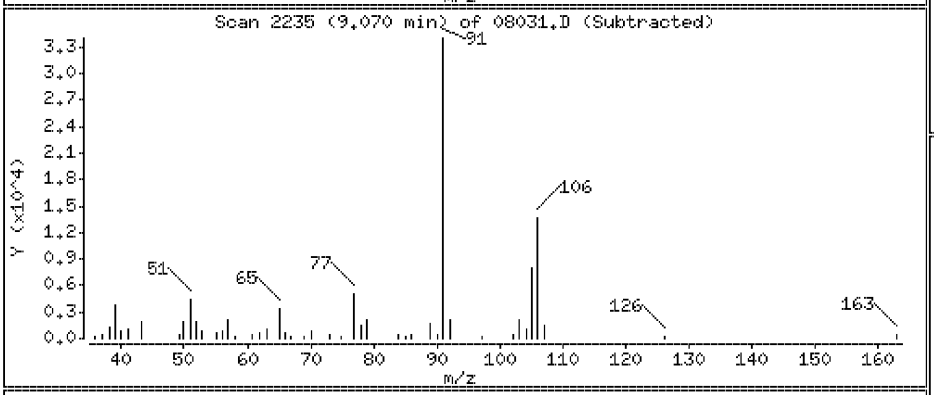
Column diameter: 0.32

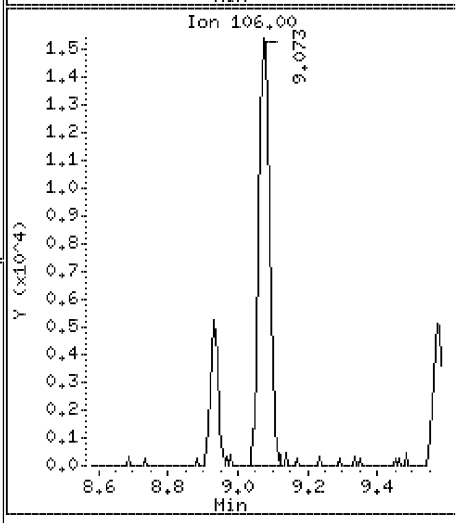
70 m&p-Xylene

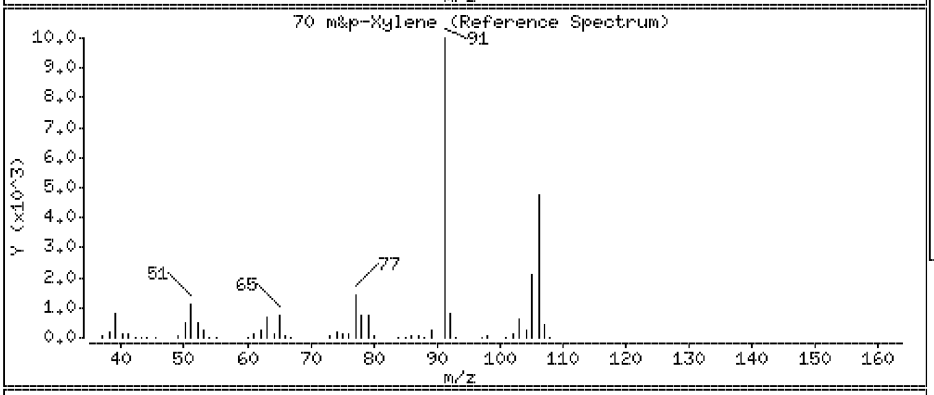
Concentration: 0.619 ppbv

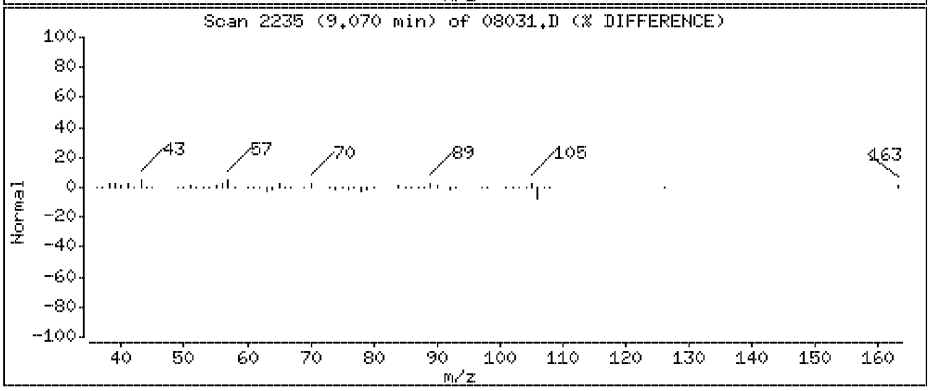












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

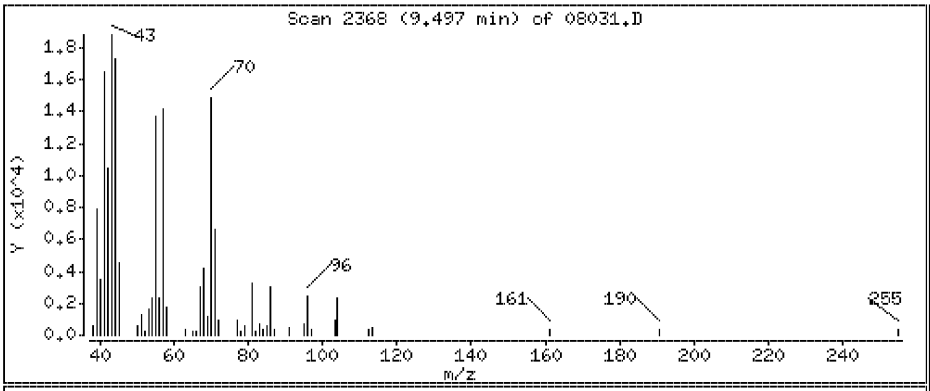
Operator: NCK

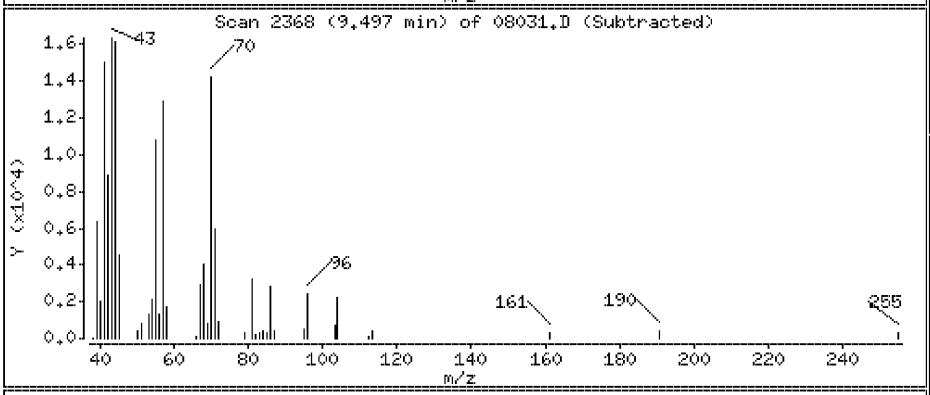
Column phase: J&W DB-5

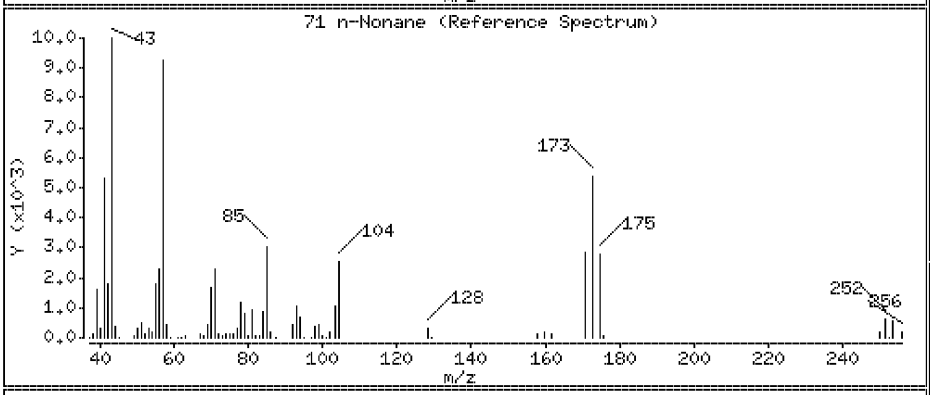
Column diameter: 0.32

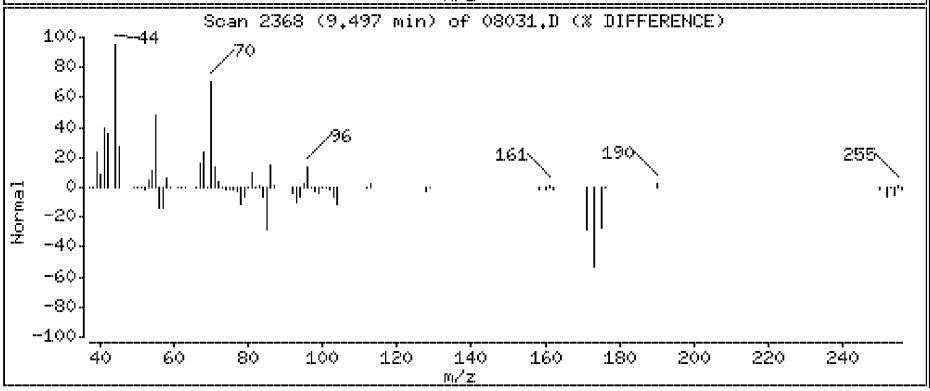
71 n-Nonane

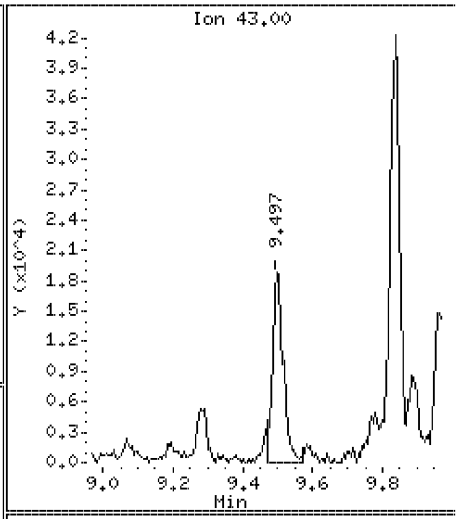
Concentration: 0.421 ppbv

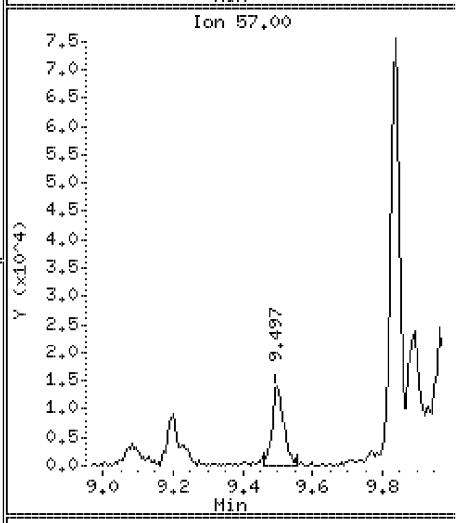


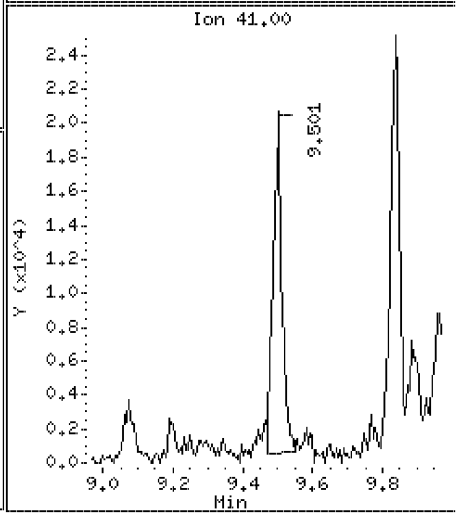












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

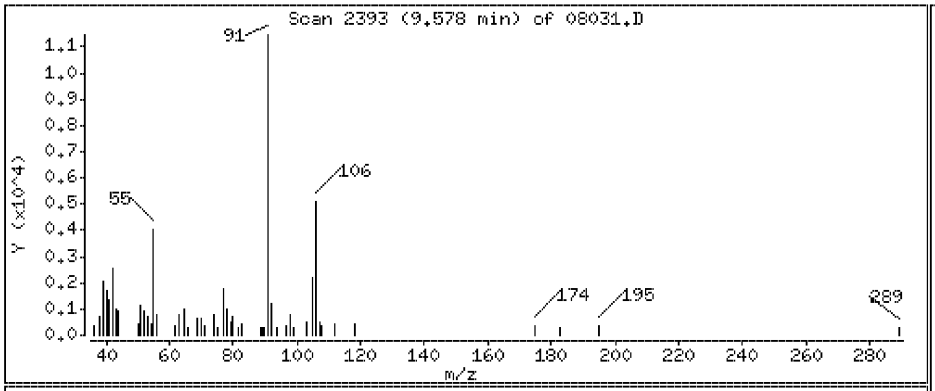
Operator: NCK

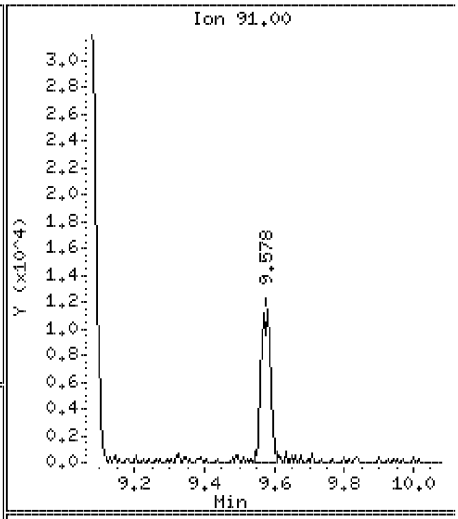
Column phase: J&W DB-5

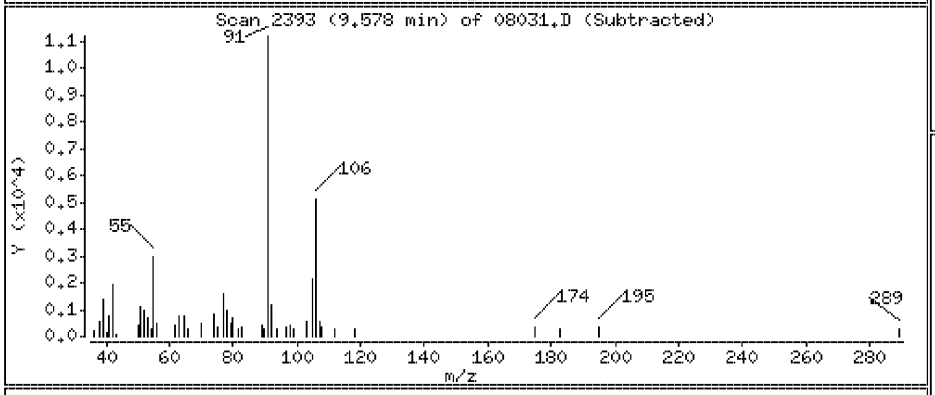
Column diameter: 0.32

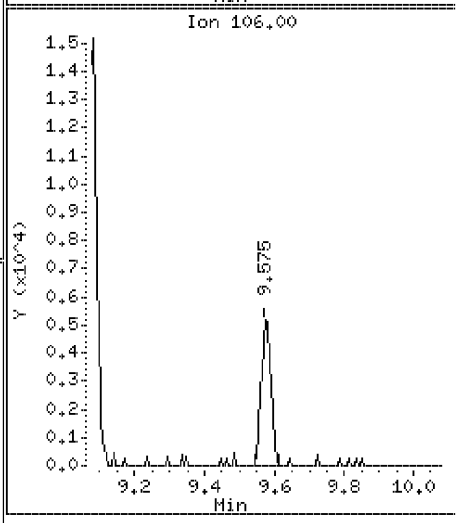
74 o-Xylene

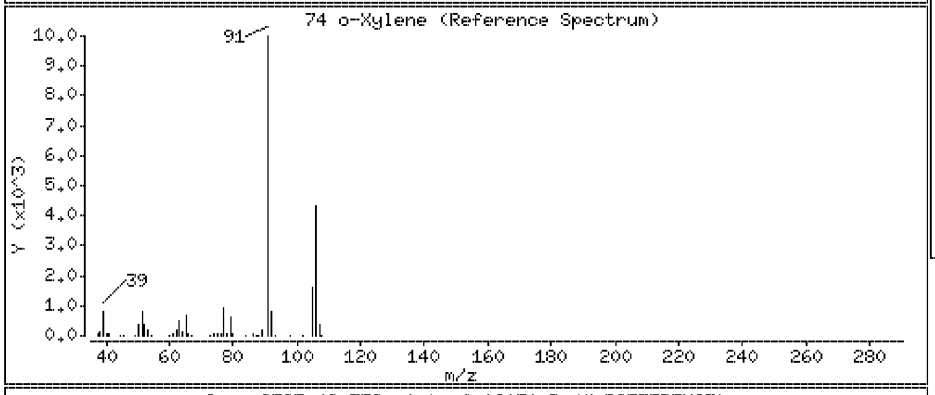
Concentration: 0.150 ppbv

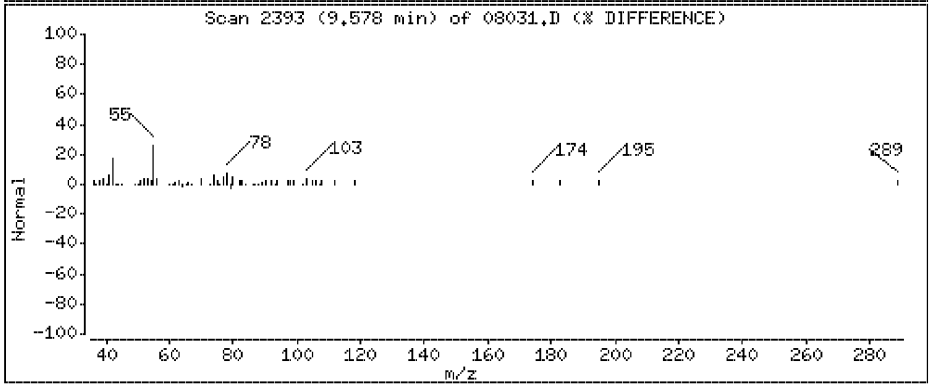












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

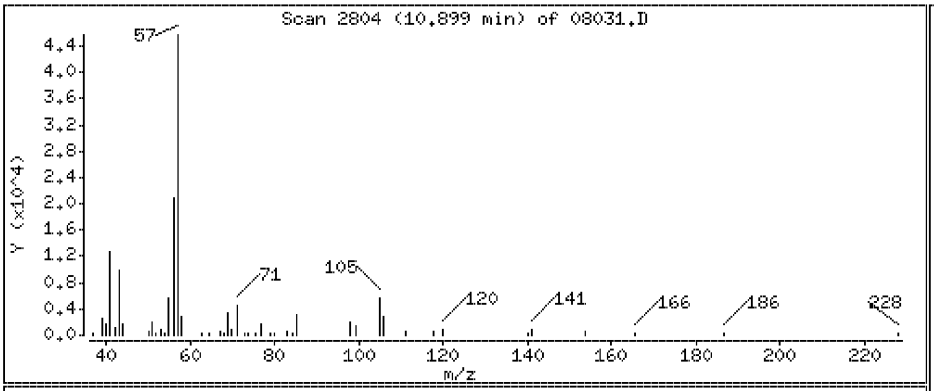
Operator: NCK

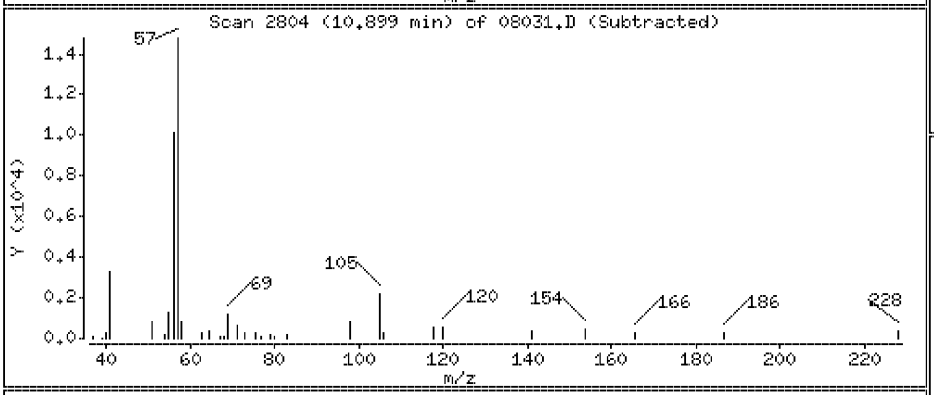
Column phase: J&W DB-5

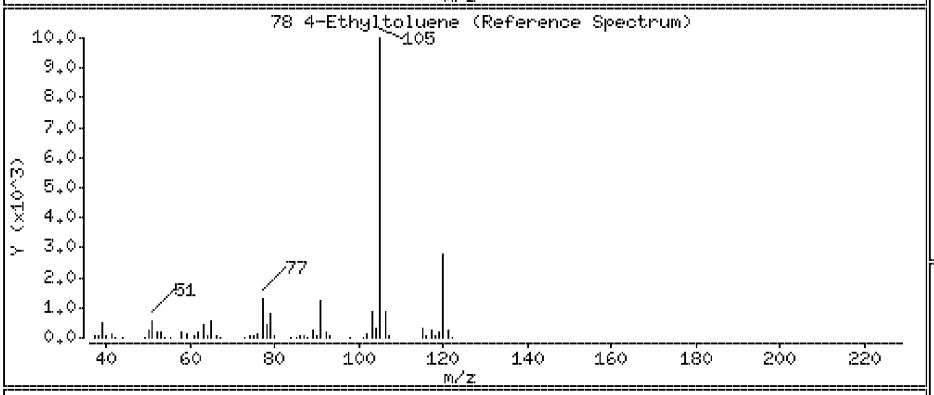
Column diameter: 0.32

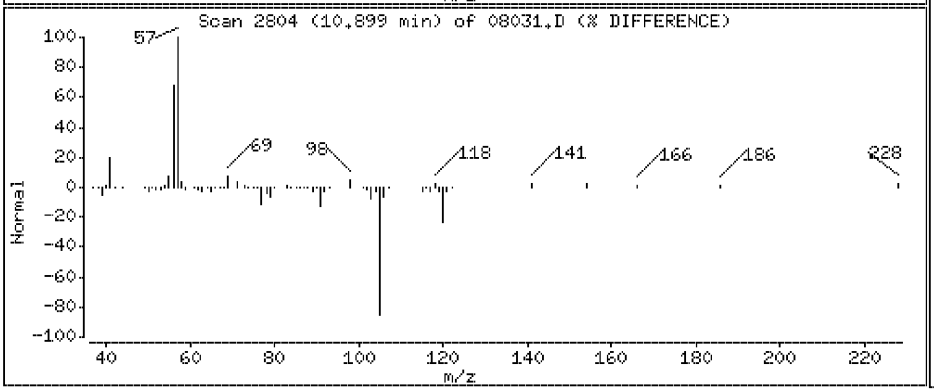
78 4-Ethyltoluene

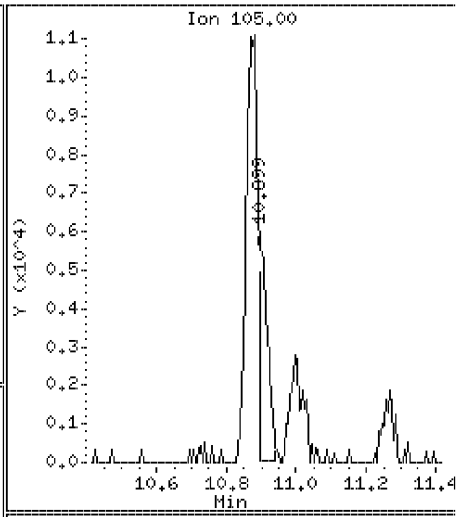
Concentration: 0.255 ppbv

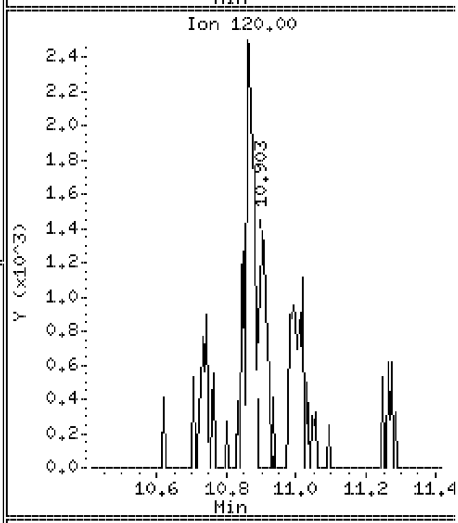


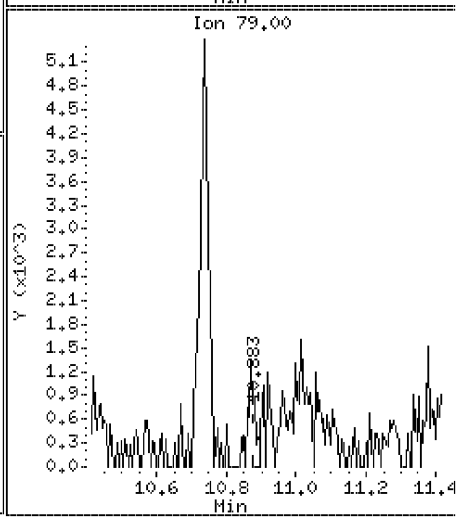












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

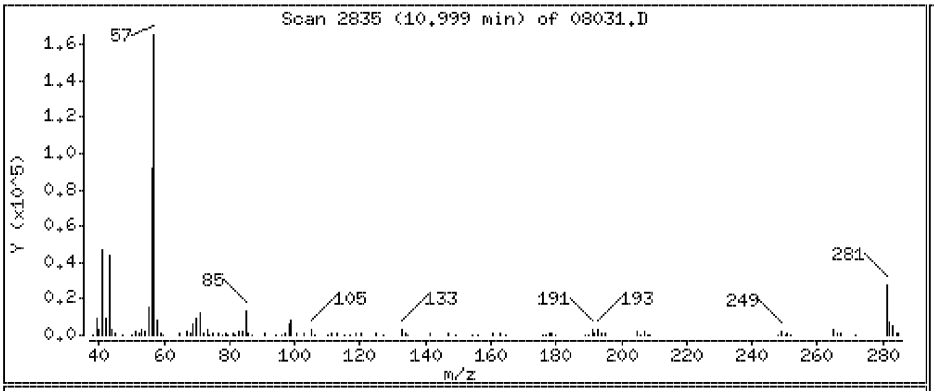
Operator: NCK

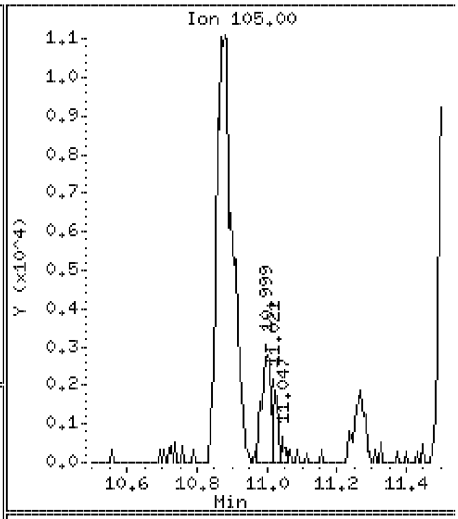
Column phase: J&W DB-5

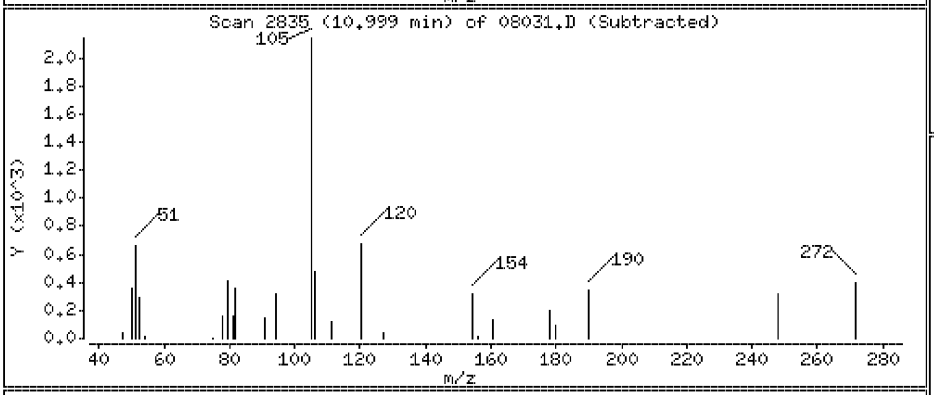
Column diameter: 0.32

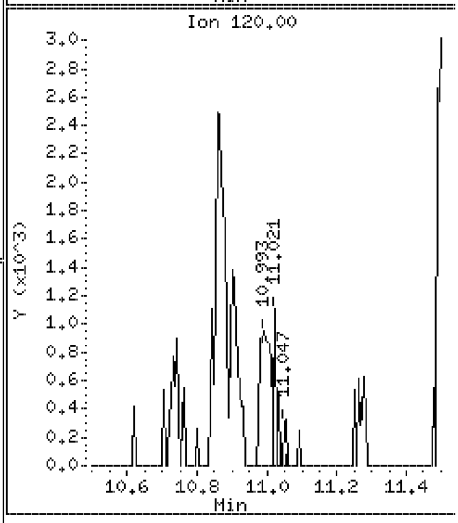
79 1,3,5-Trimethylbenzene

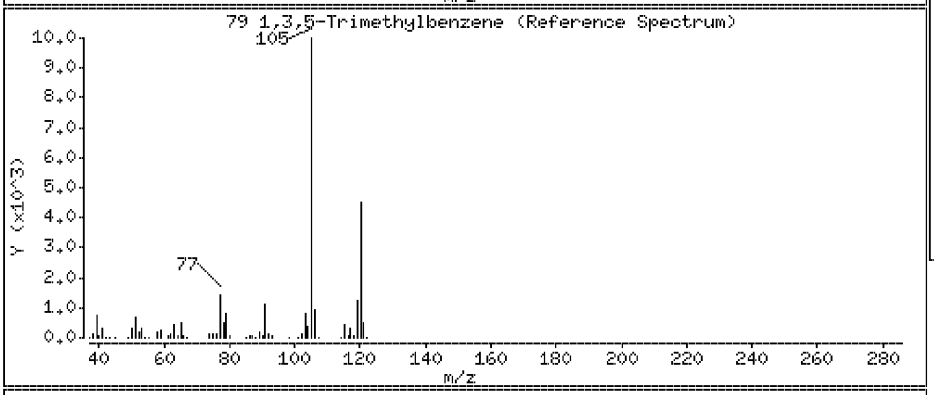
Concentration: 0.215 ppbv

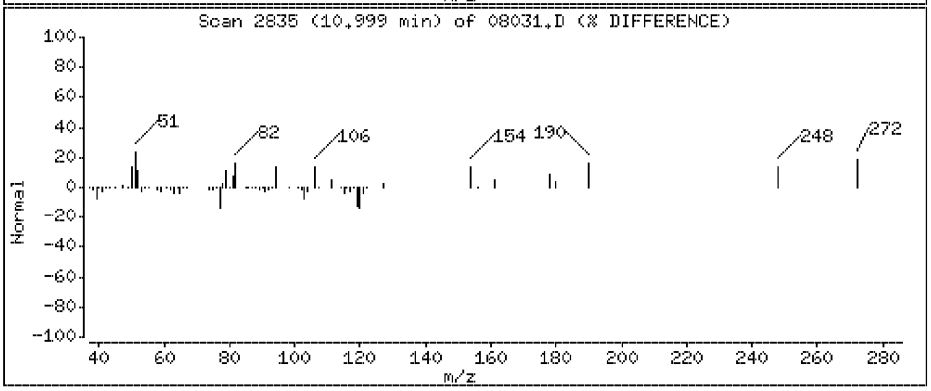












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

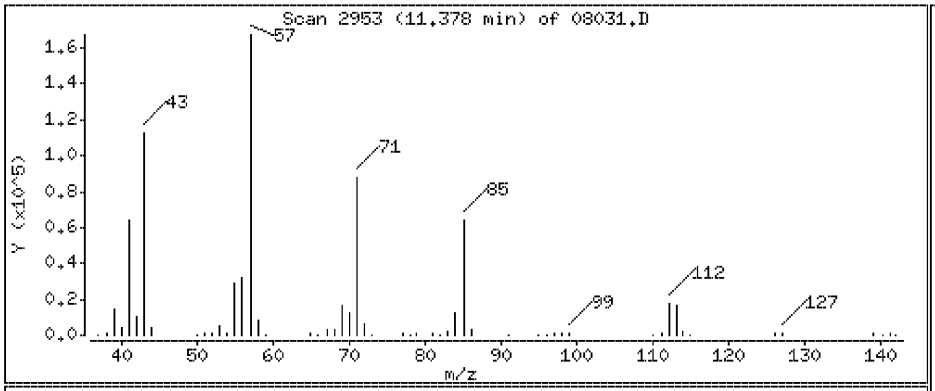
Operator: NCK

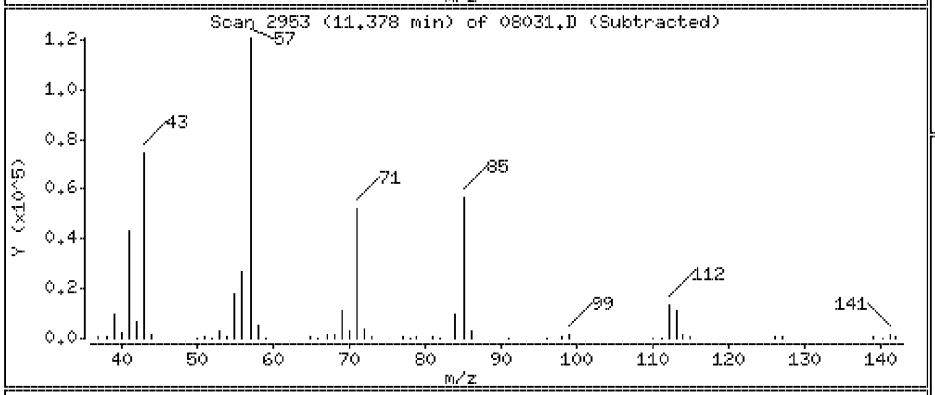
Column phase: J&W DB-5

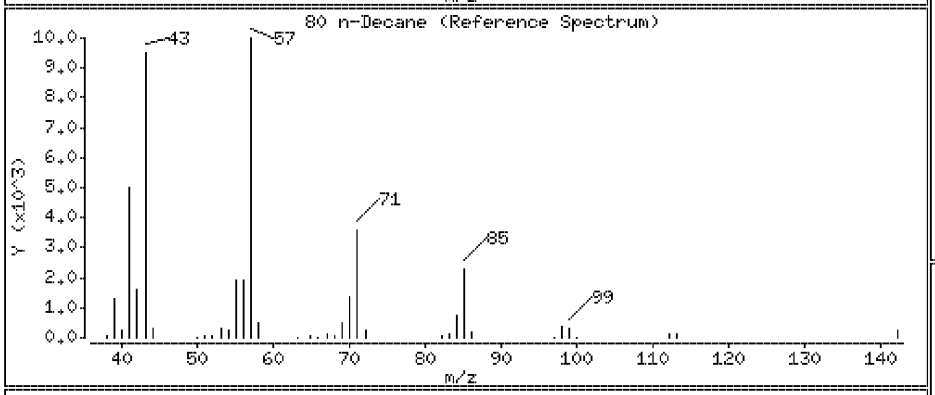
Column diameter: 0.32

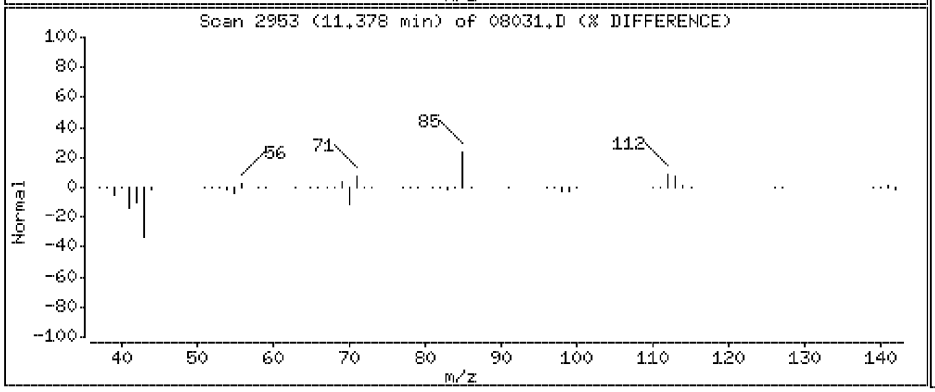
80 n-Decane

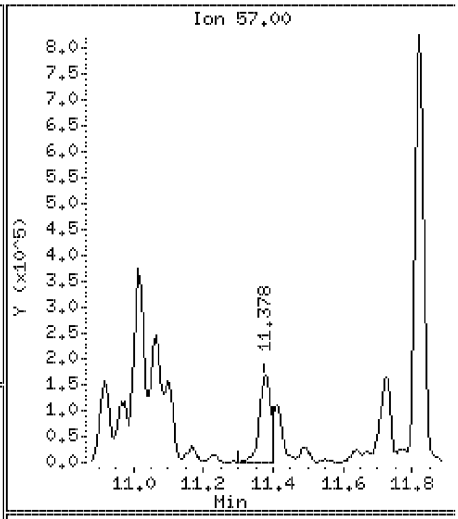
Concentration: 3.85 ppbv

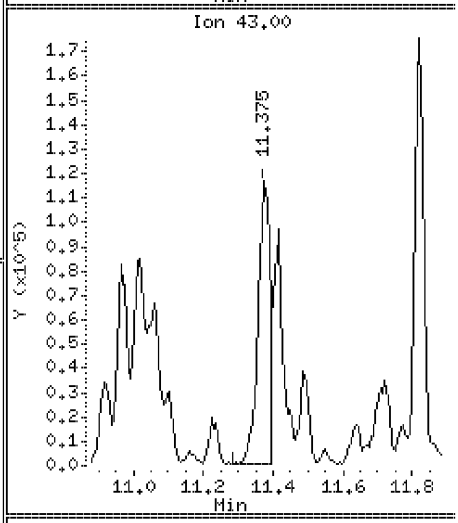


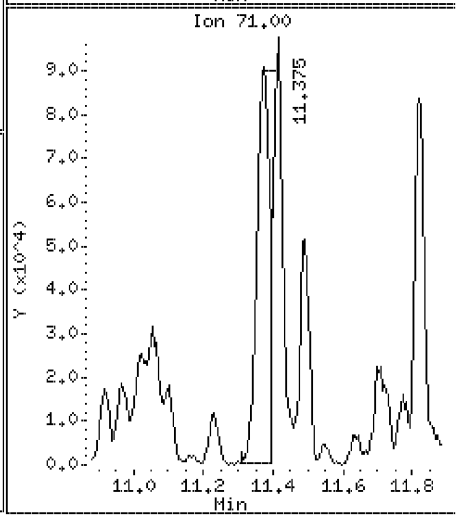












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

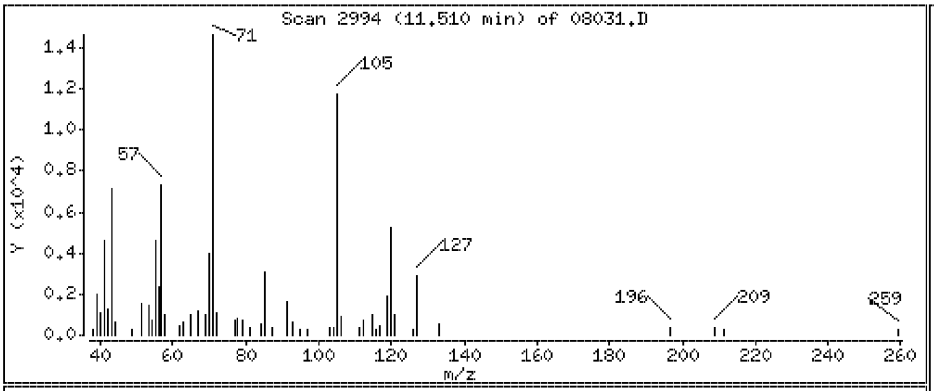
Operator: NCK

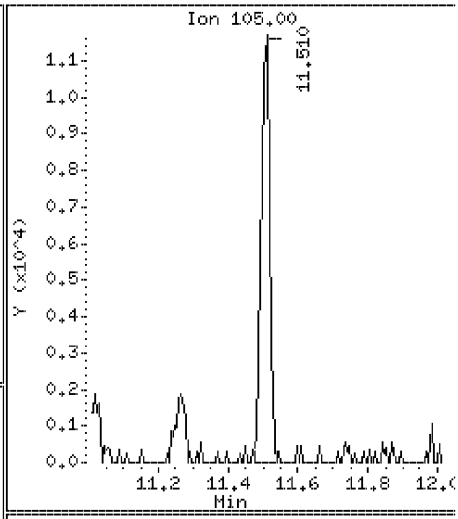
Column phase: J&W DB-5

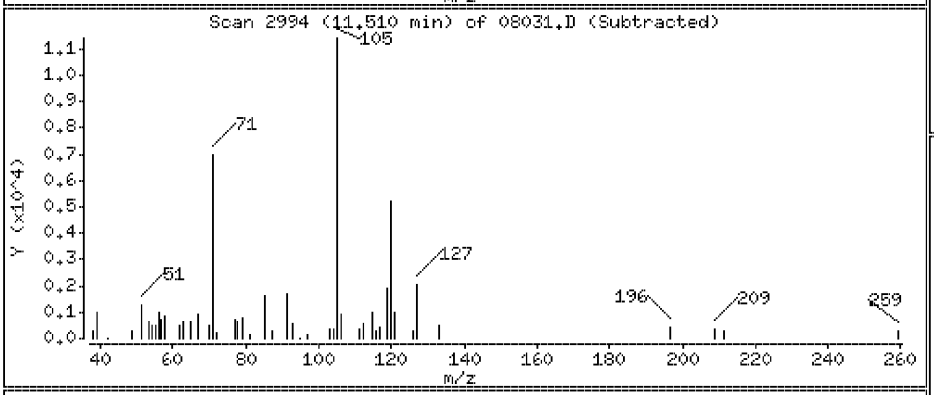
Column diameter: 0.32

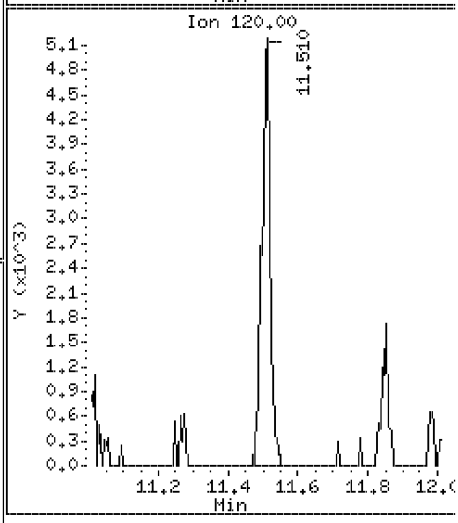
82 1,2,4-Trimethylbenzene

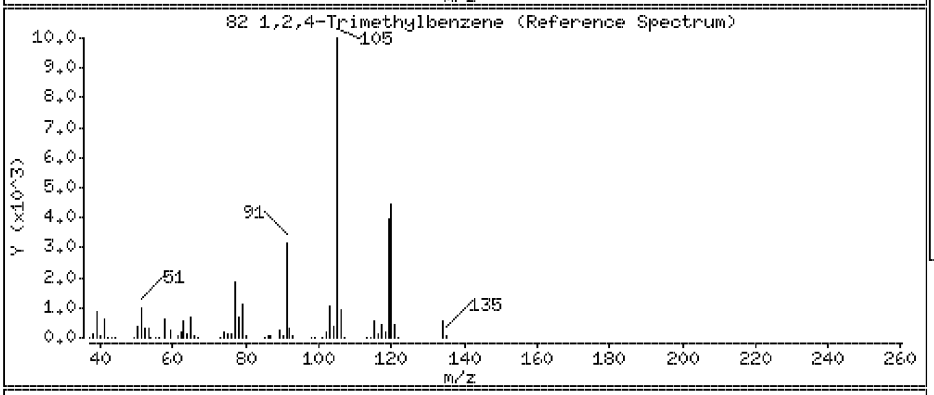
Concentration: 0.286 ppbv

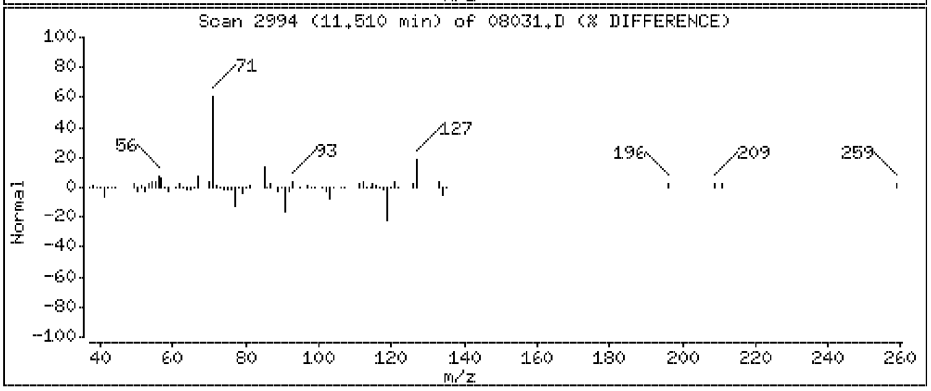












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

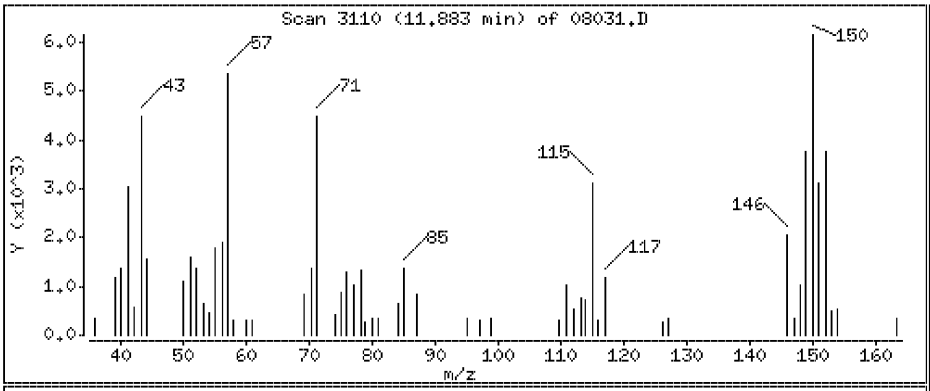
Operator: NCK

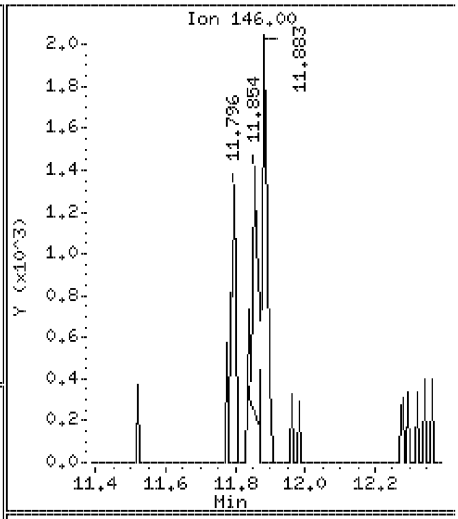
Column phase: J&W DB-5

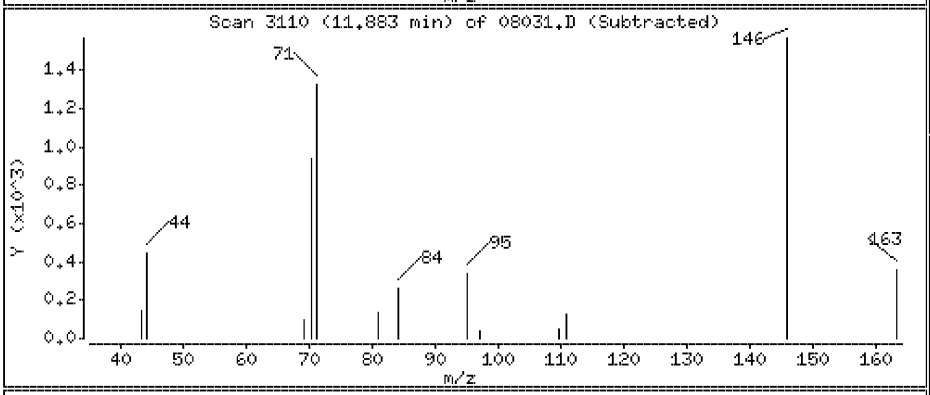
Column diameter: 0.32

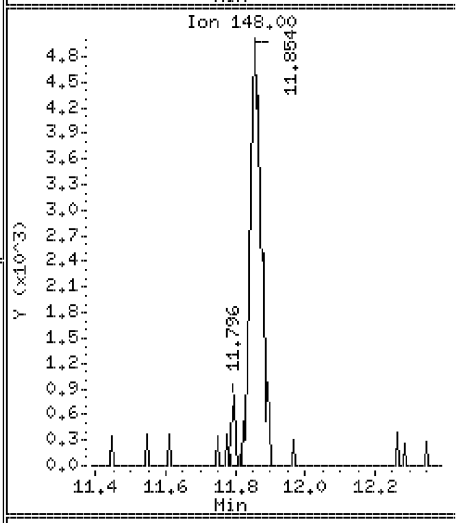
87 1,4-Dichlorobenzene

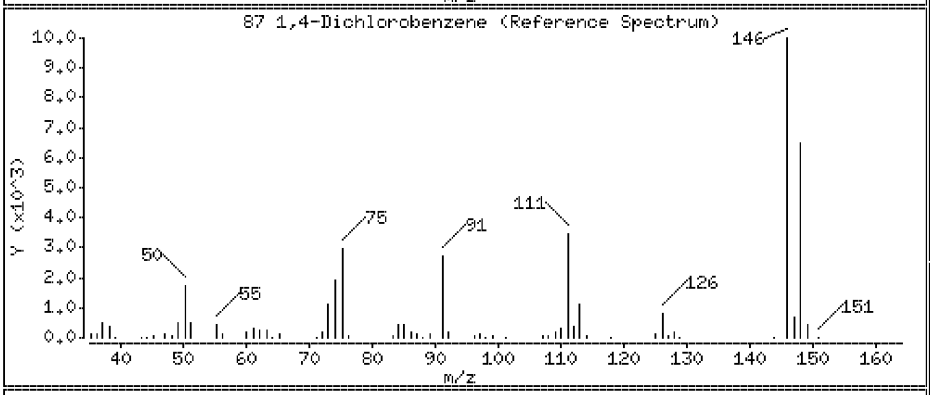
Concentration: 0.210 ppbv

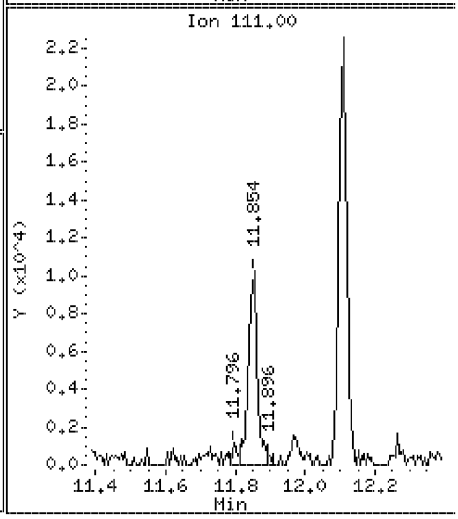


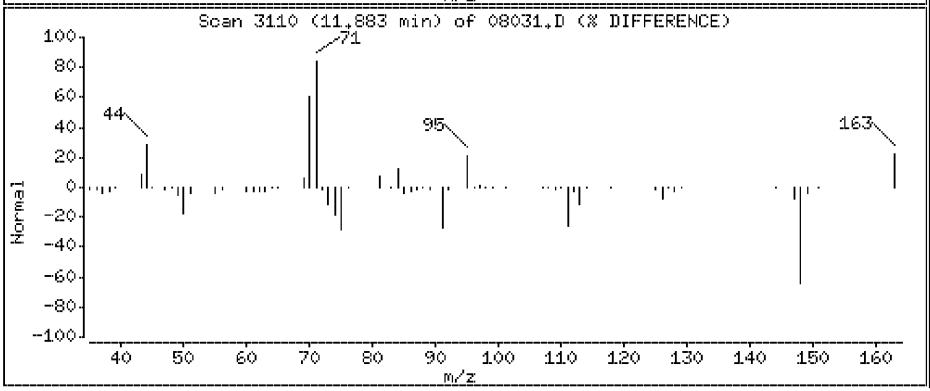












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

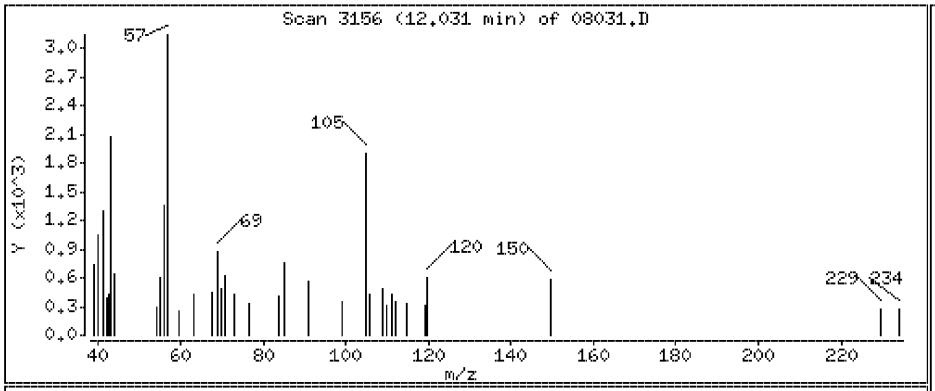
Operator: NCK

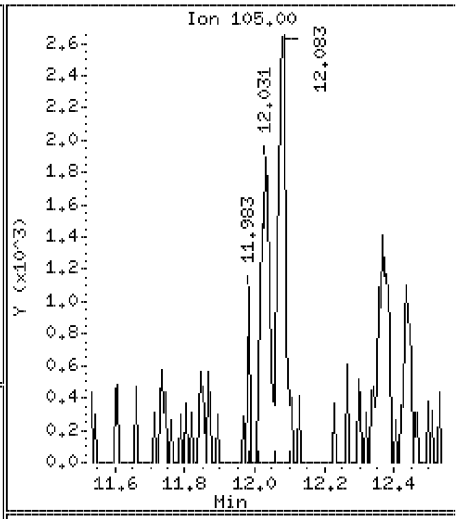
Column phase: J&W DB-5

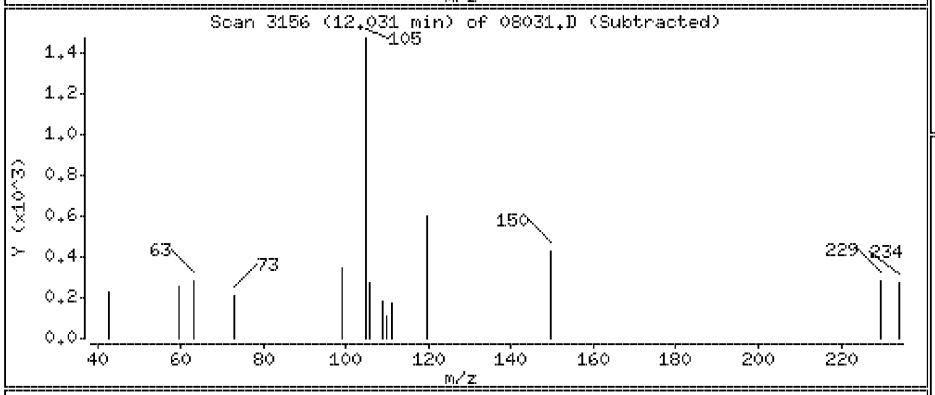
Column diameter: 0.32

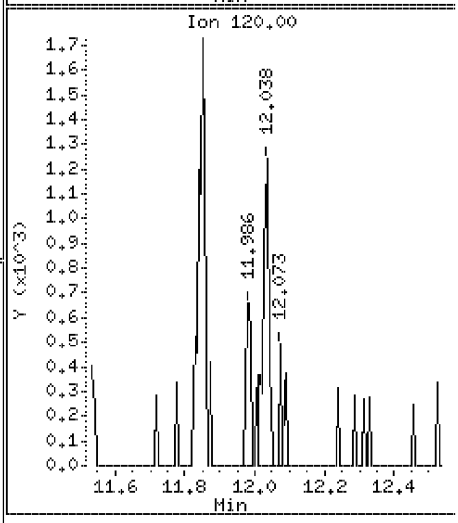
89 1,2,3-Trimethylbenzene

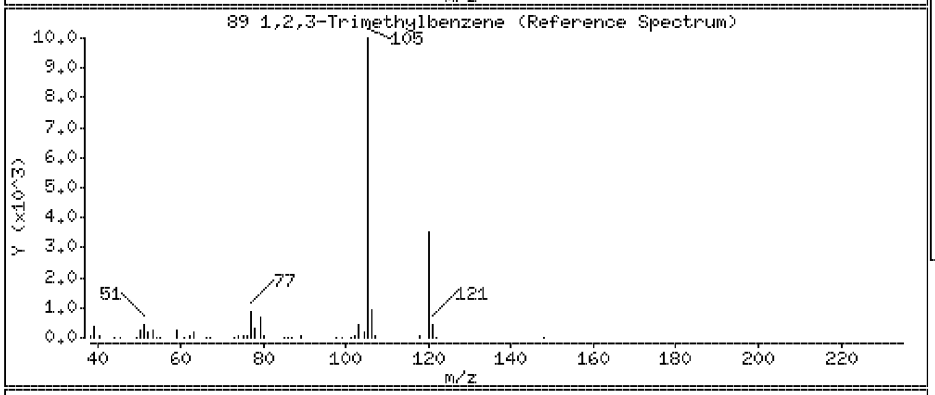
Concentration: 0.215 ppbv

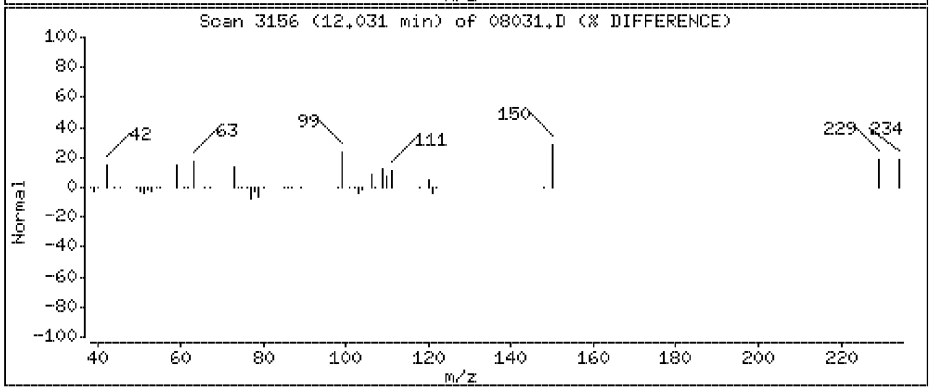












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08031.D

Date : 22-MAR-2017 00:12

Client ID:

Instrument: 10airB.i

Sample Info:

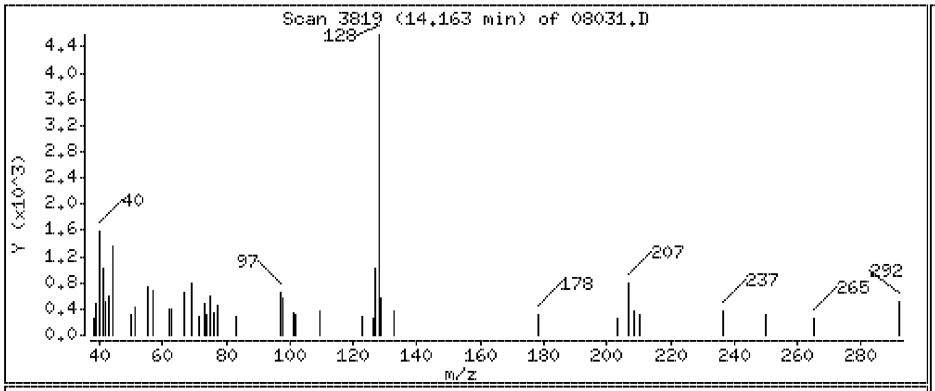
Operator: NCK

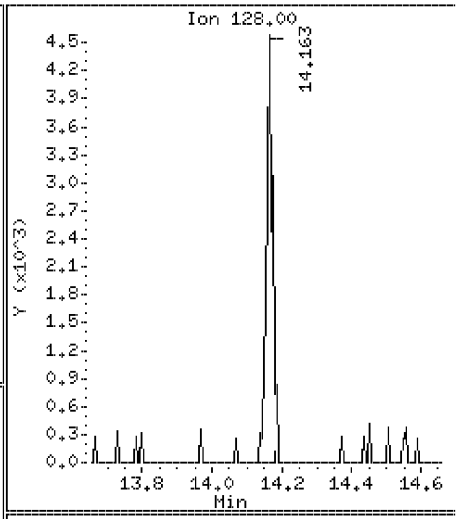
Column phase: J&W DB-5

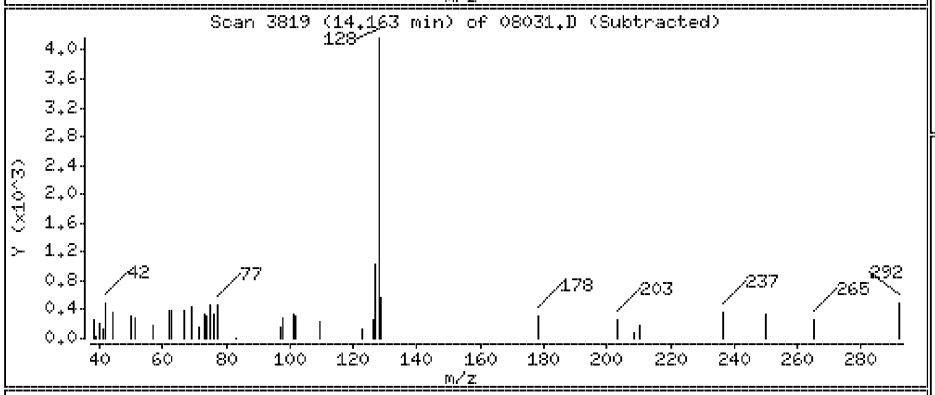
Column diameter: 0.32

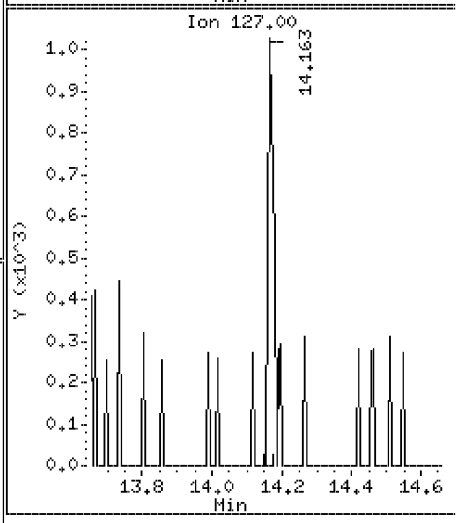
94 Naphthalene

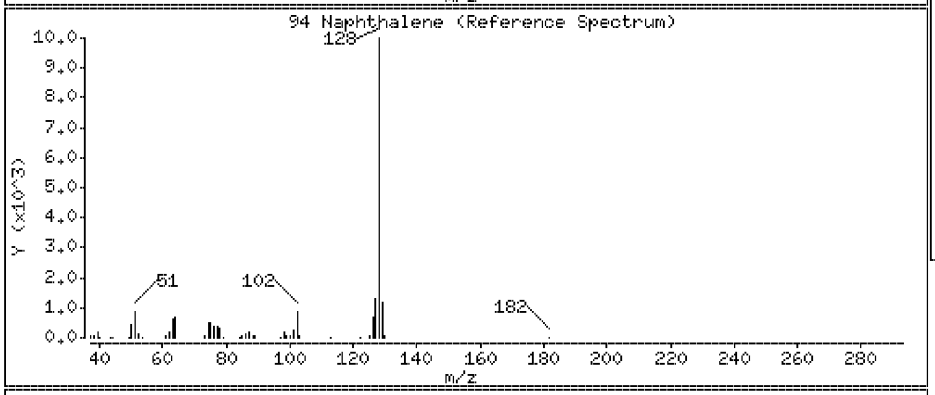
Concentration: 0.625 ppbv

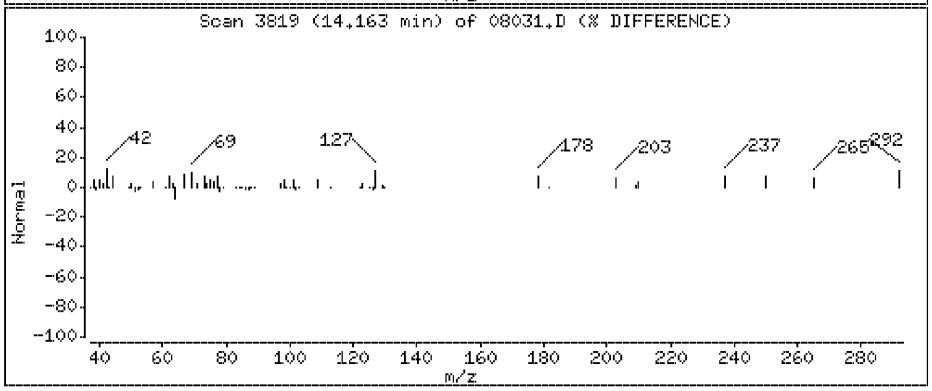






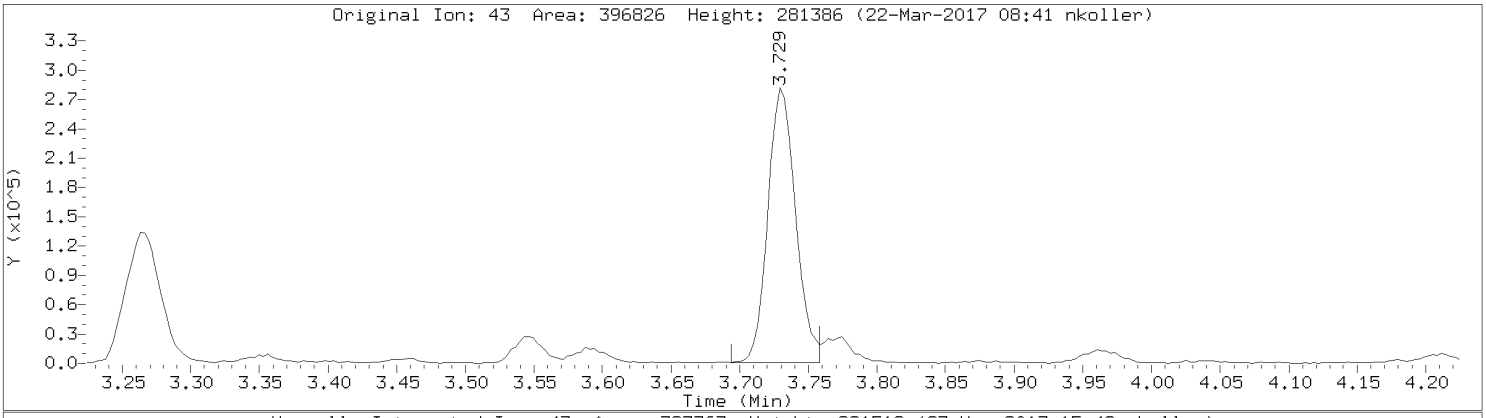


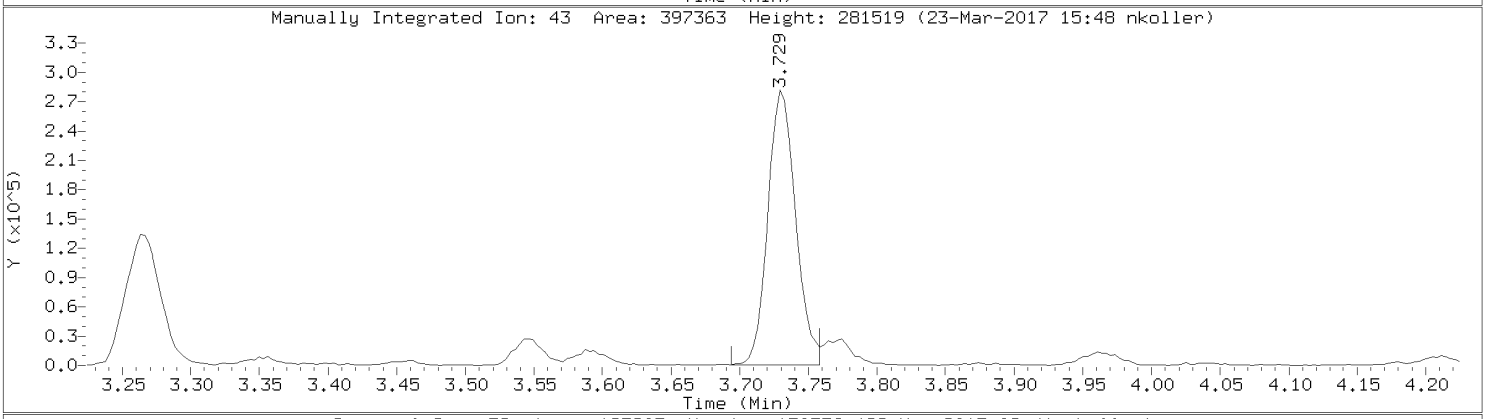


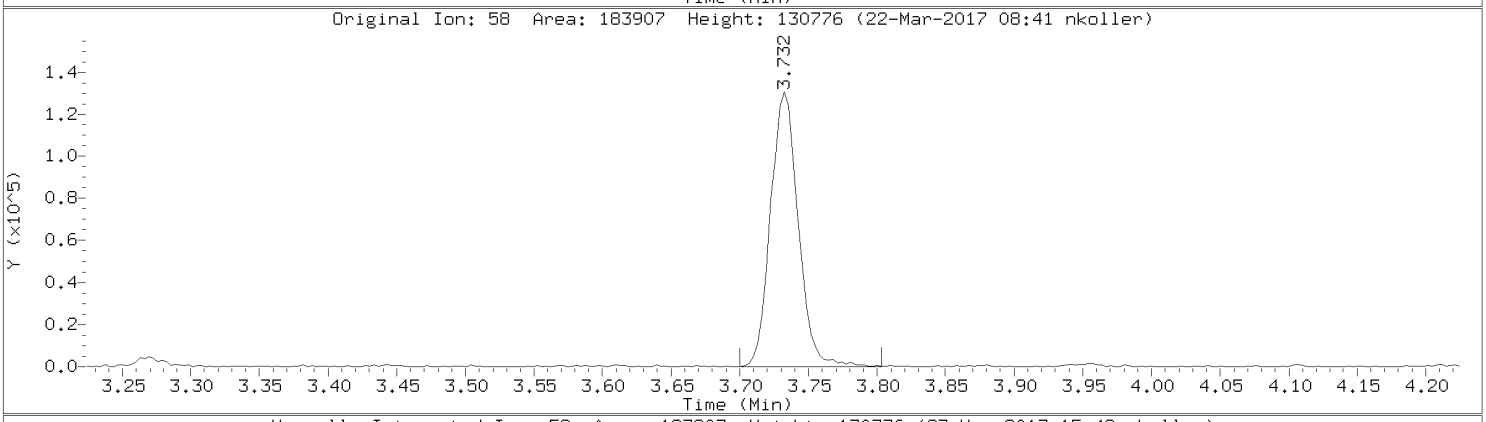


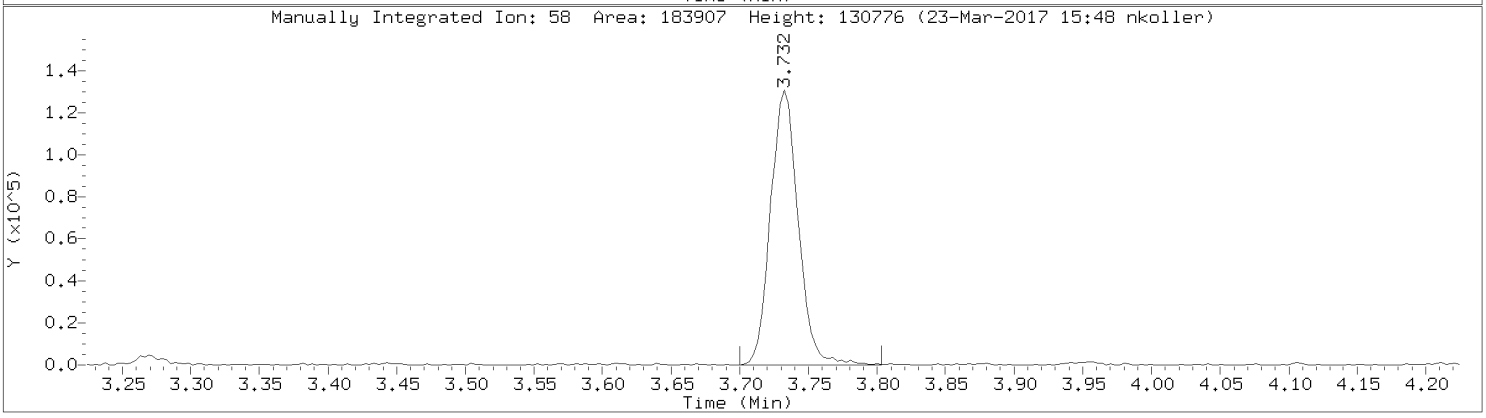
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08031.D
Injection Date: 22-MAR-2017 00:12
Instrument: 10airB.i
Lab Sample ID: 10381035019

Compound: Acetone
CAS Number: 67-64-1



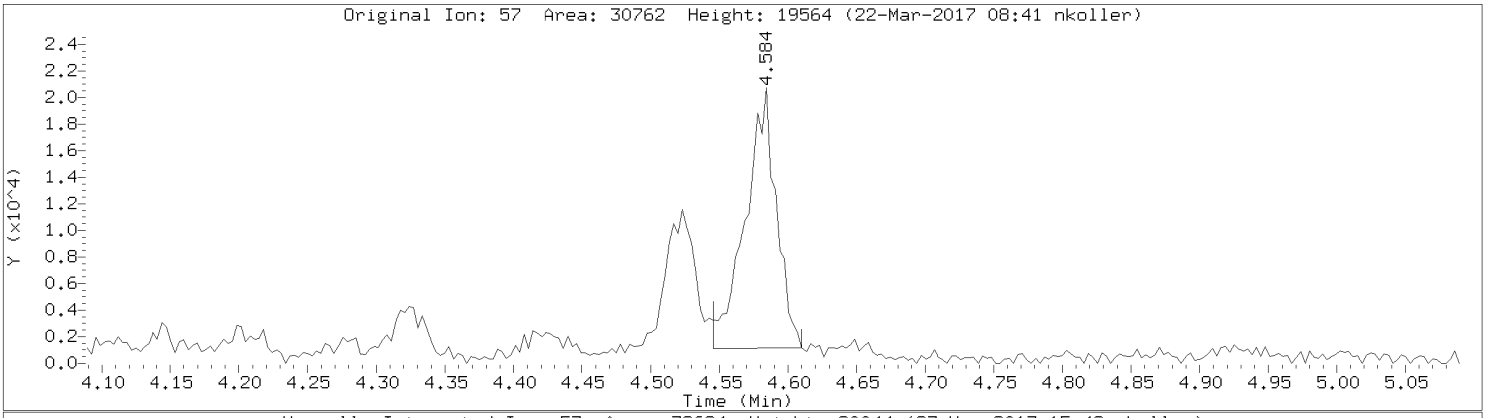


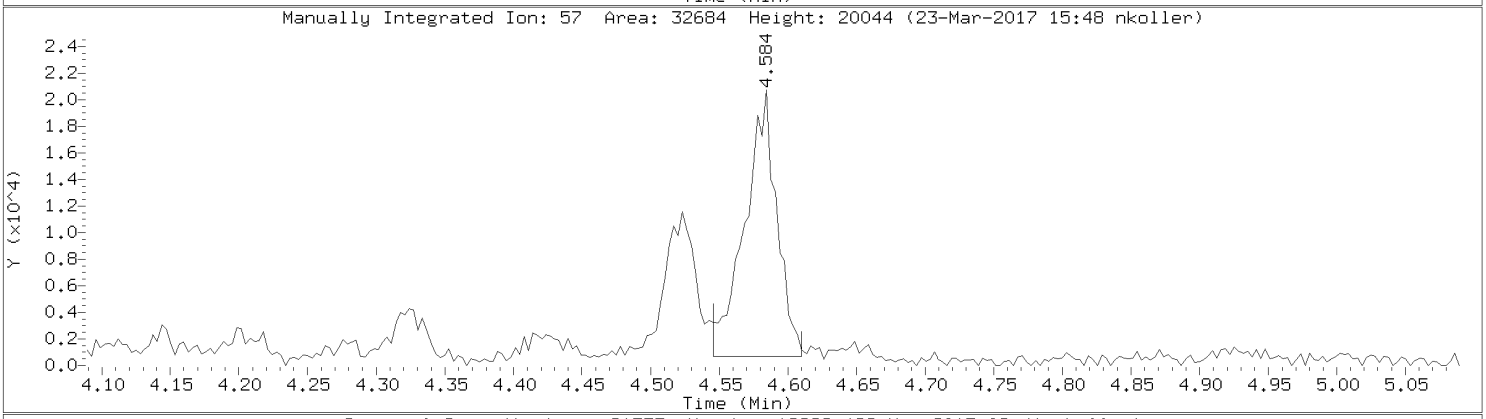


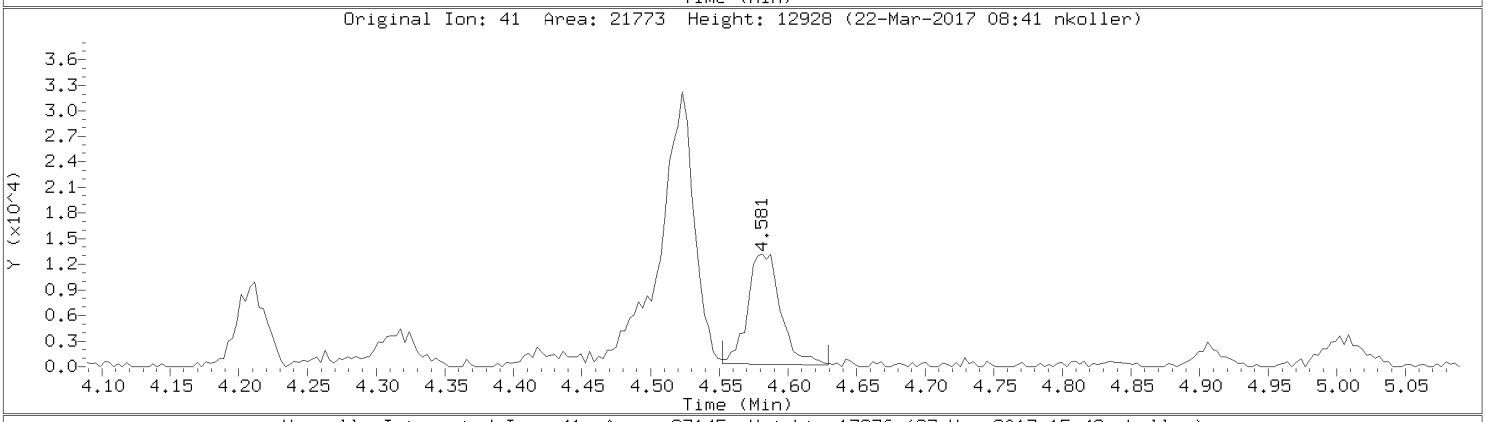


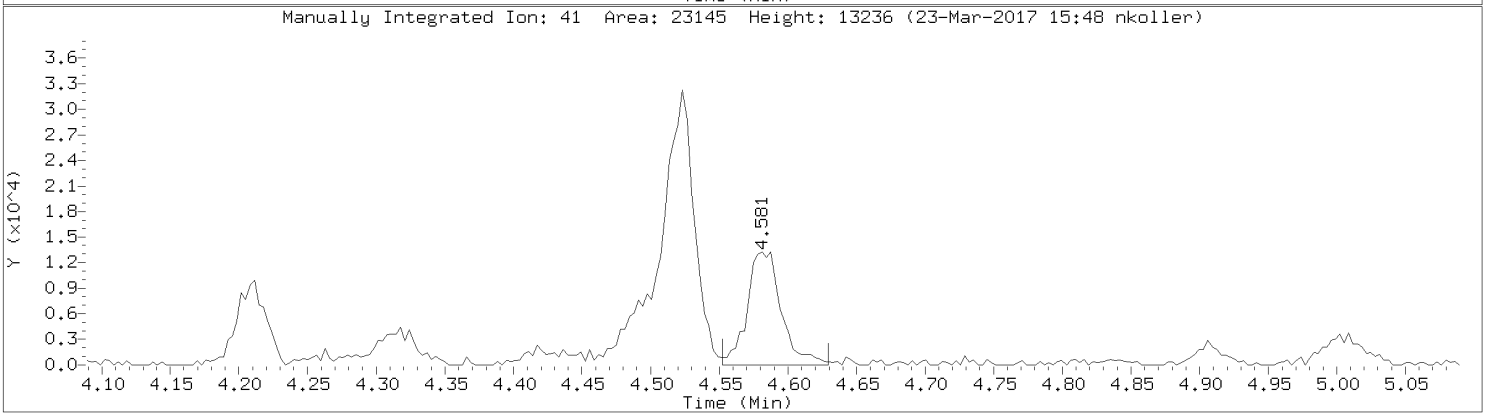
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08031.D
Injection Date: 22-MAR-2017 00:12
Instrument: 10airB.i
Lab Sample ID: 10381035019

Compound: n-Hexane
CAS Number: 110-54-3

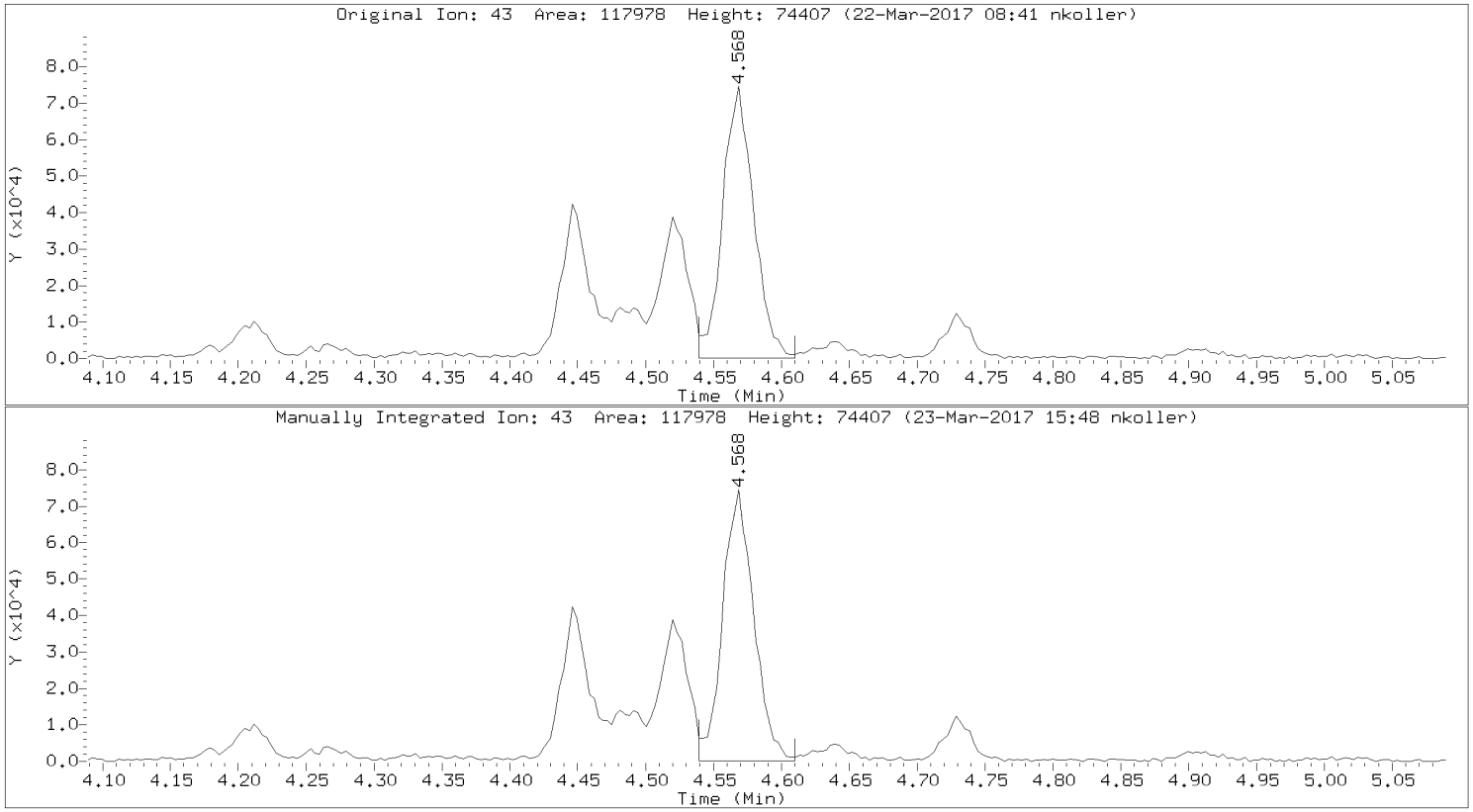






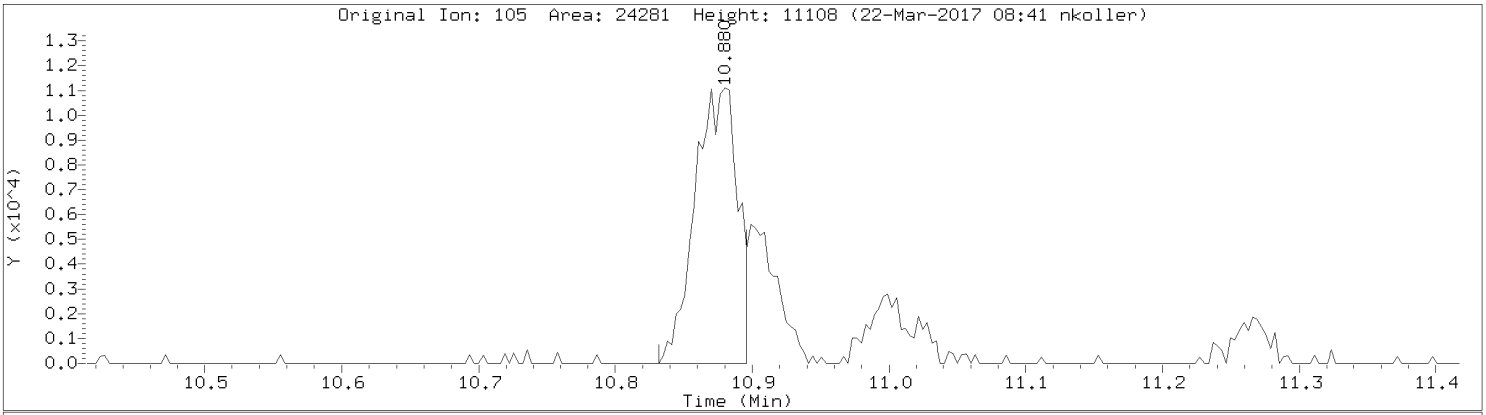


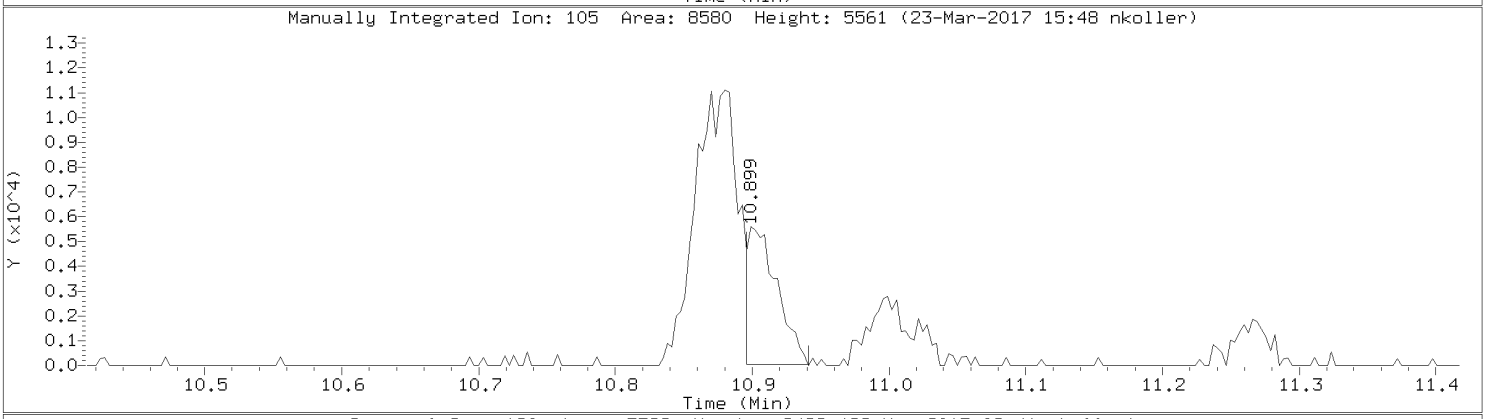
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08031.D
Injection Date: 22-MAR-2017 00:12
Instrument: 10airB.i
Lab Sample ID: 10381035019

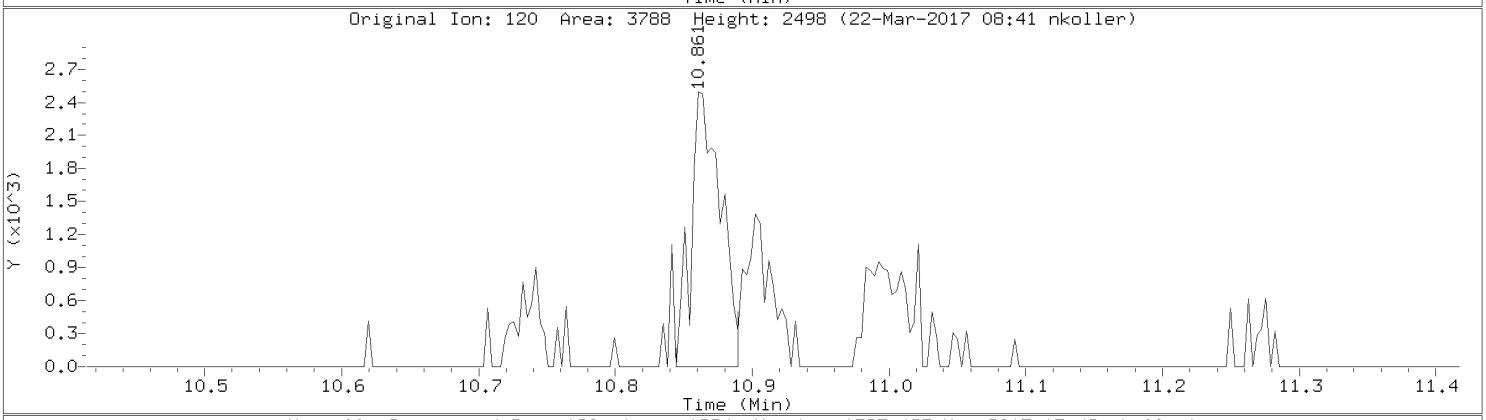


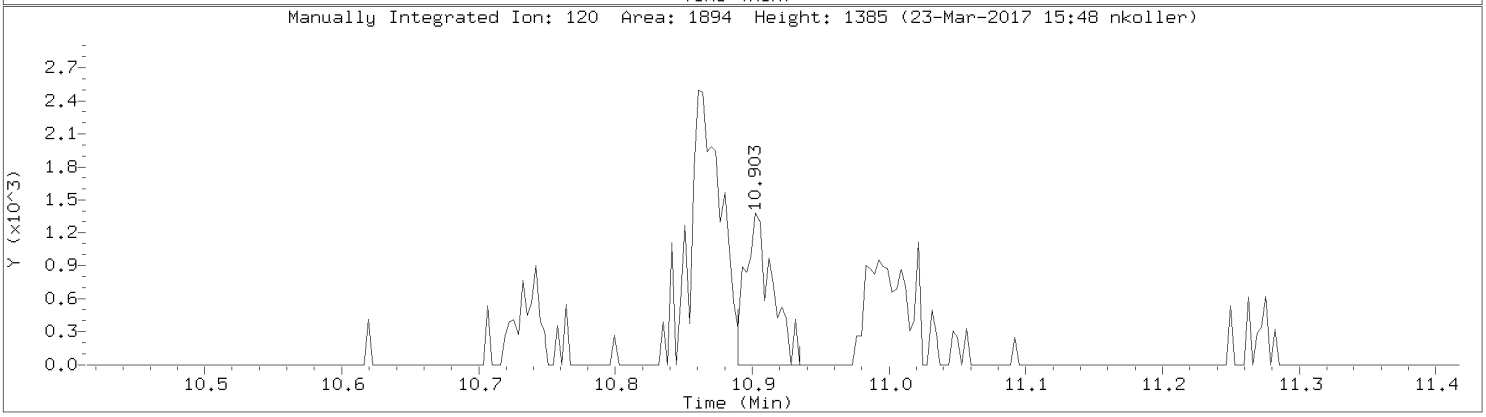
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08031.D
Injection Date: 22-MAR-2017 00:12
Instrument: 10airB.i
Lab Sample ID: 10381035019

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

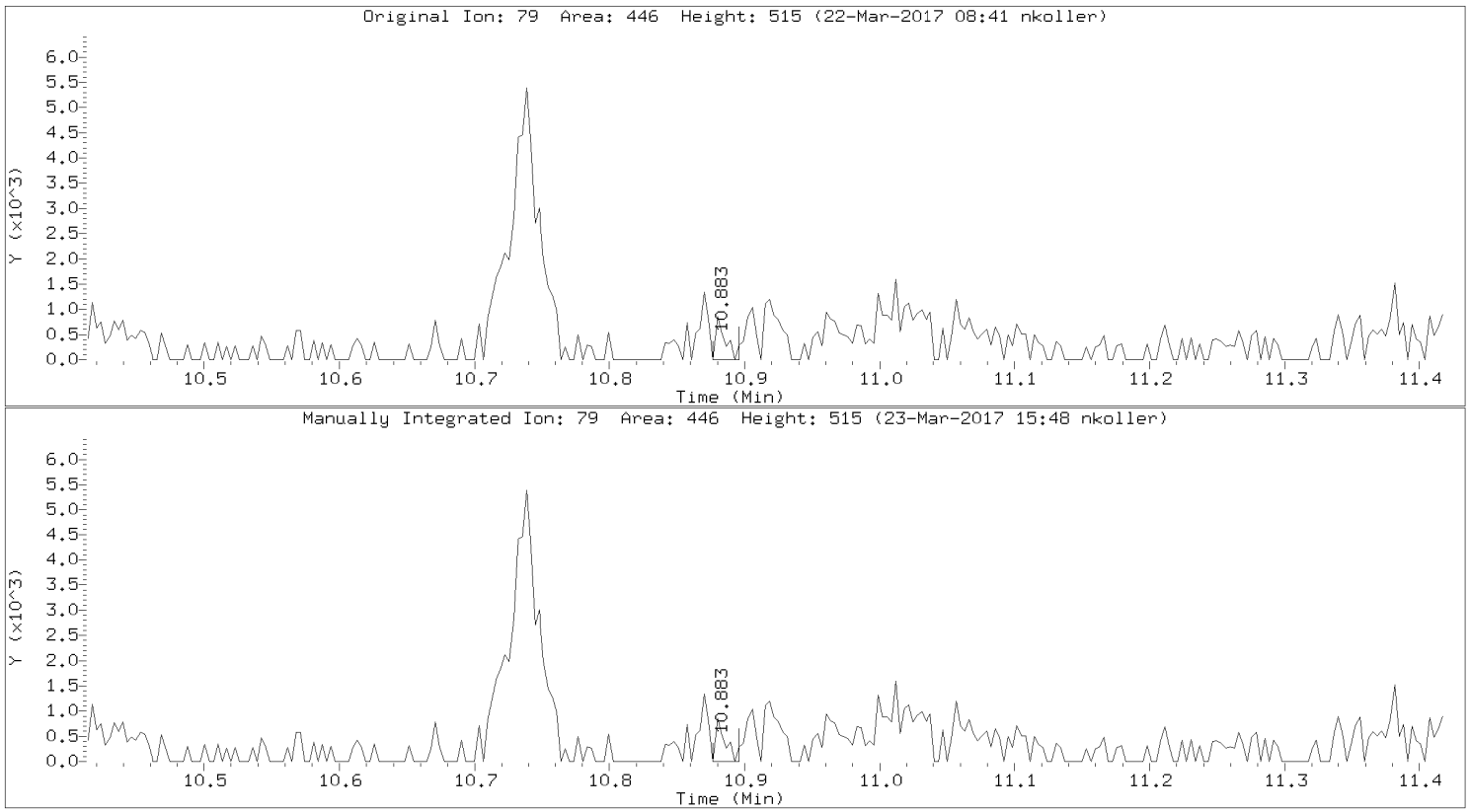






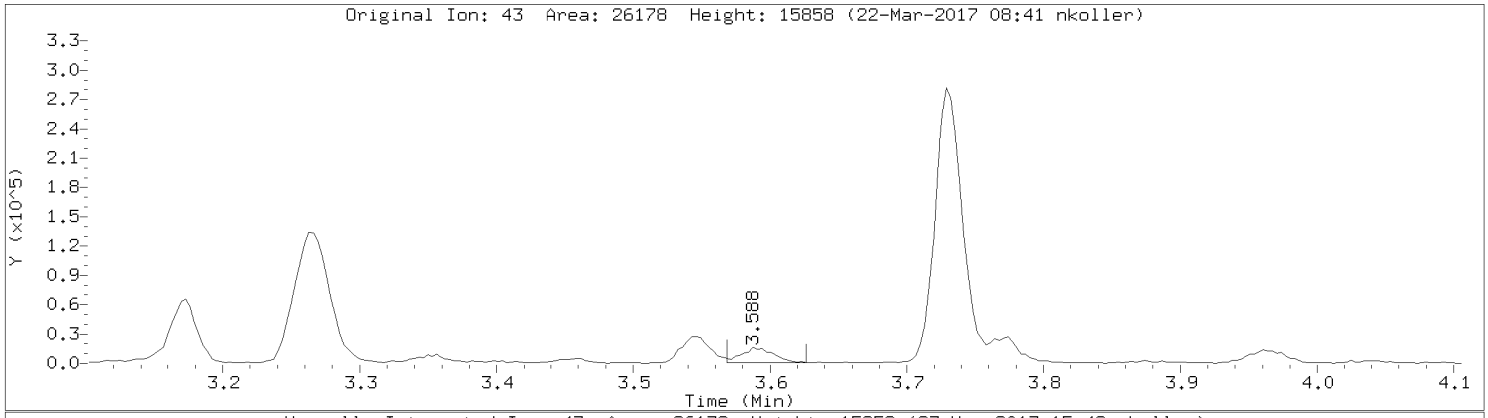


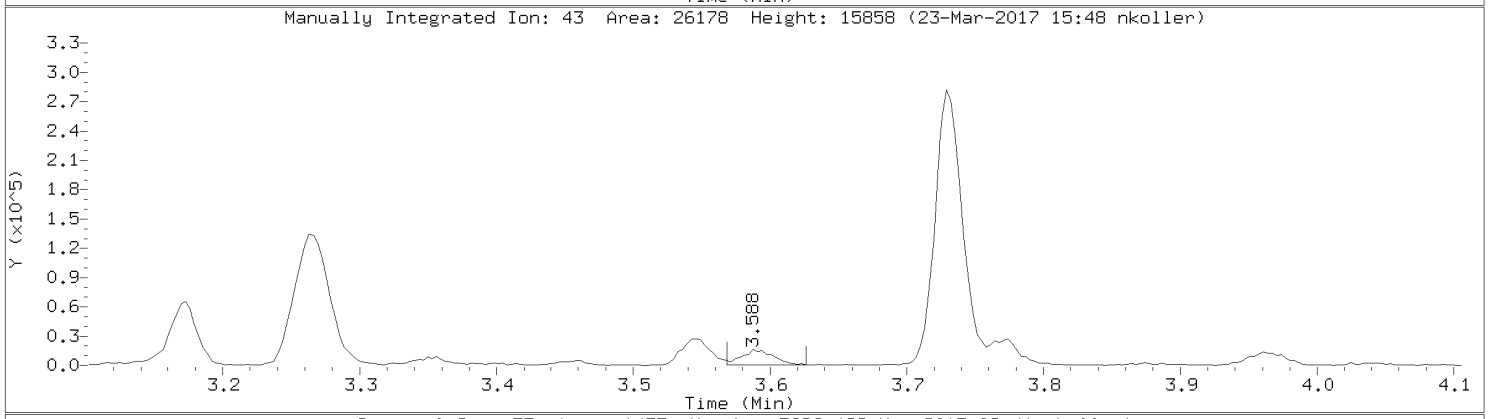
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08031.D
Injection Date: 22-MAR-2017 00:12
Instrument: 10airB.i
Lab Sample ID: 10381035019

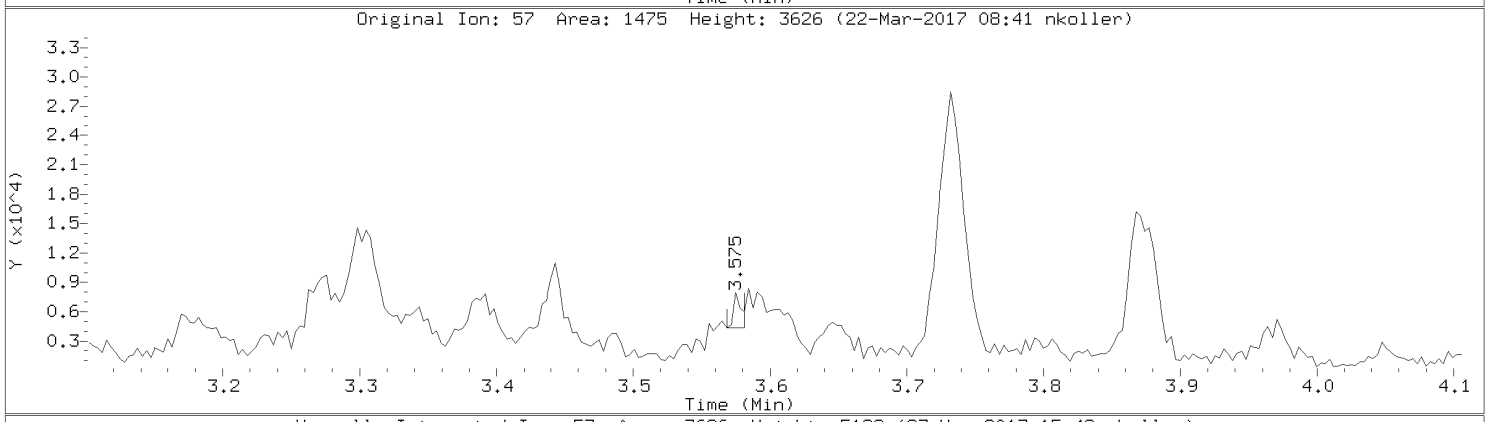


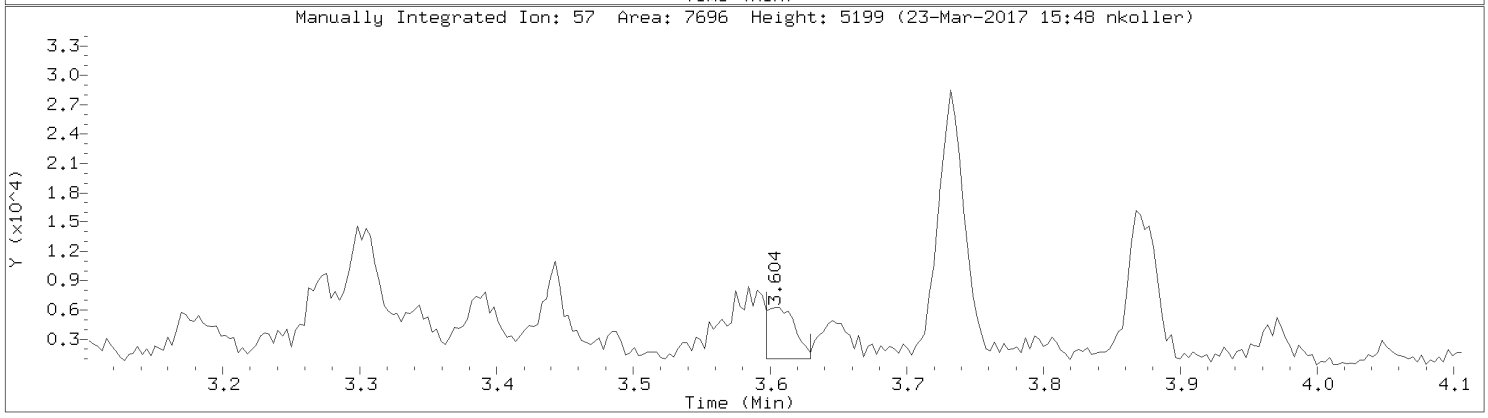
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08031.D
Injection Date: 22-MAR-2017 00:12
Instrument: 10airB.i
Lab Sample ID: 10381035019

Compound: Isopentane
CAS Number: 78-78-4

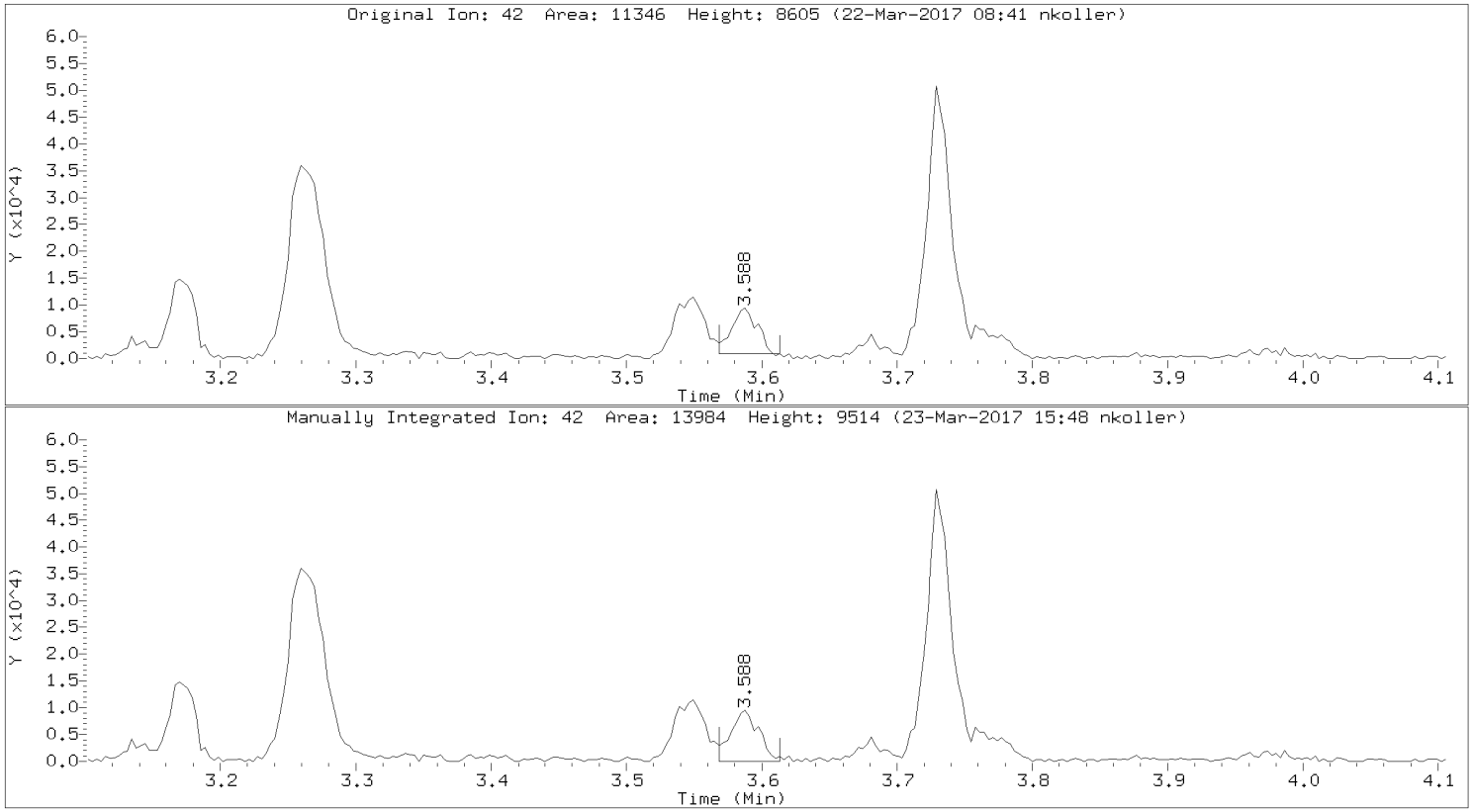








Data File: \\192.168.10.12\chem\10airB.i\032117.b/08031.D
Injection Date: 22-MAR-2017 00:12
Instrument: 10airB.i
Lab Sample ID: 10381035019



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08138.D
Report Date: 23-Mar-2017 14:19

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032217.b\08138.D
Lab Smp Id: 10381035019
Inj Date : 23-MAR-2017 04:46
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Meth Date : 23-Mar-2017 13:56 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 38
Dil Factor: 35.91200
Integrator: HP RTE Compound Sublist: TCE_PCE.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	35.912	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$	32 Hexane-d14(S)	66	4.487	4.494	(0.801)	1922065	9.21190	9.21
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	6087590	10.0000	
	51 Trichloroethene	130	5.979	5.989	(1.067)	800642	9.76640	351
$	59 Toluene-d8 (S)	98	7.072	7.076	(1.262)	5308956	9.47044	9.47
	66 Tetrachloroethene	166	7.982	7.986	(0.924)	170065	1.96739	70.7(M)
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	3810739	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	11.850	11.851	(1.372)	1480885	8.05291	8.05

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08138.D
Report Date: 23-Mar-2017 14:19

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08138.D
Lab Smp Id: 10381035019
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 22-MAR-2017
Calibration Time: 09:05
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

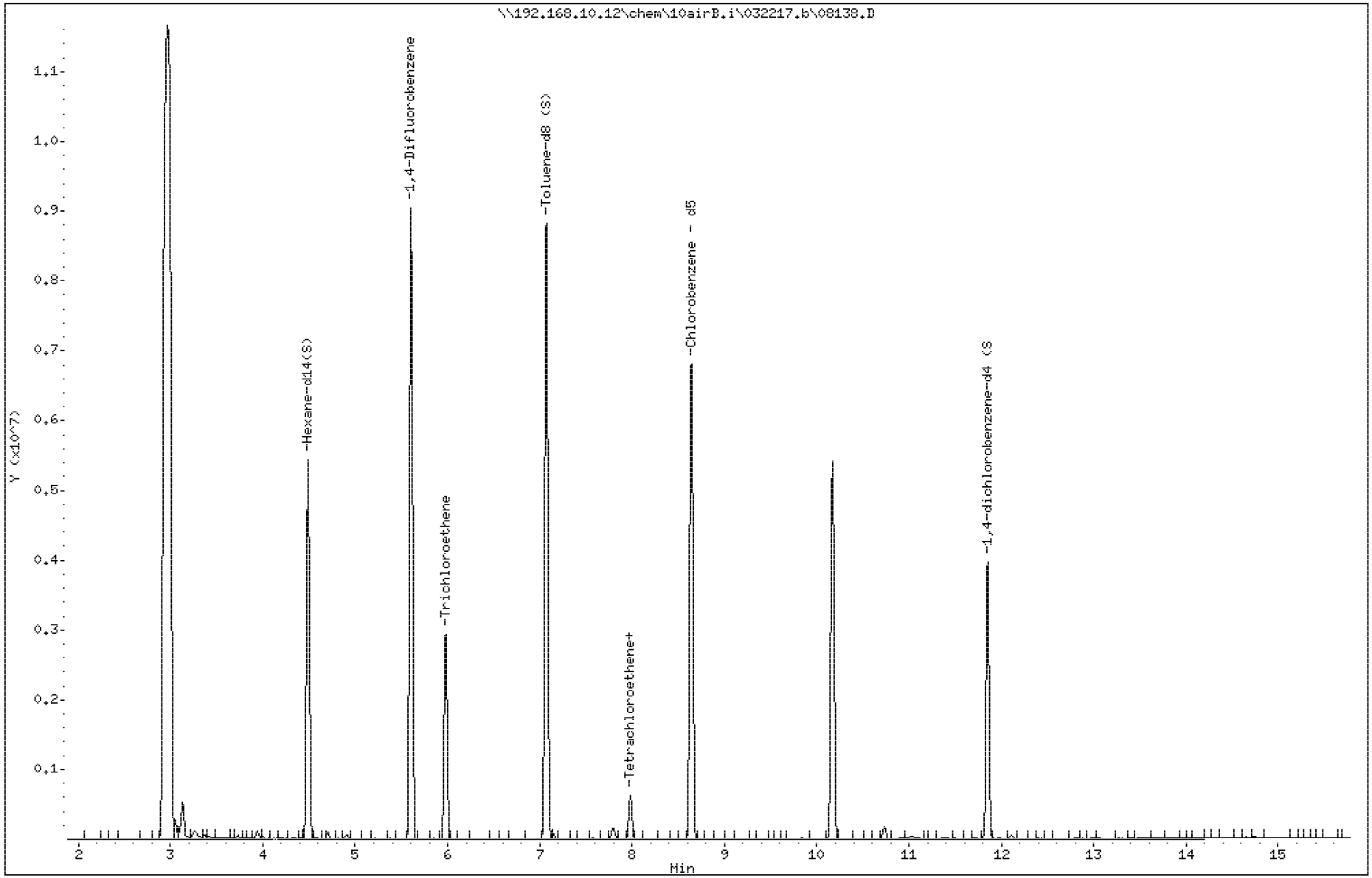
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6087590	-20.33
67 Chlorobenzene - d	5205948	3123569	7288327	3810739	-26.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08138.D
Date : 23-MAR-2017 04:46
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08138.D

Date : 23-MAR-2017 04:46

Client ID:

Instrument: 10airB.i

Sample Info:

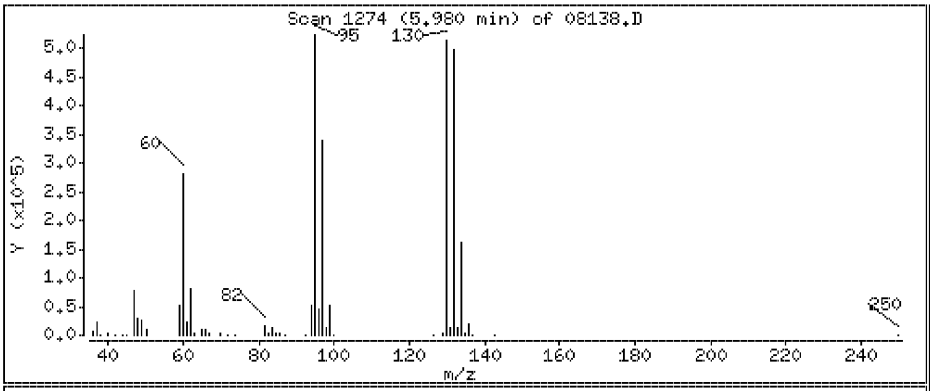
Operator: NCK

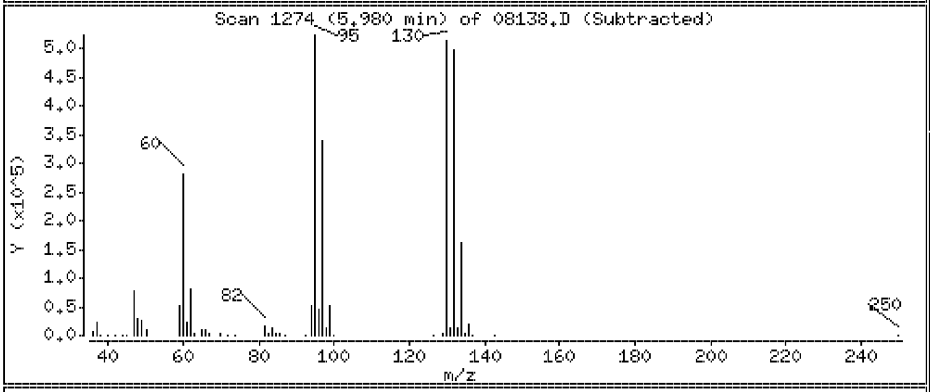
Column phase: J&W DB-5

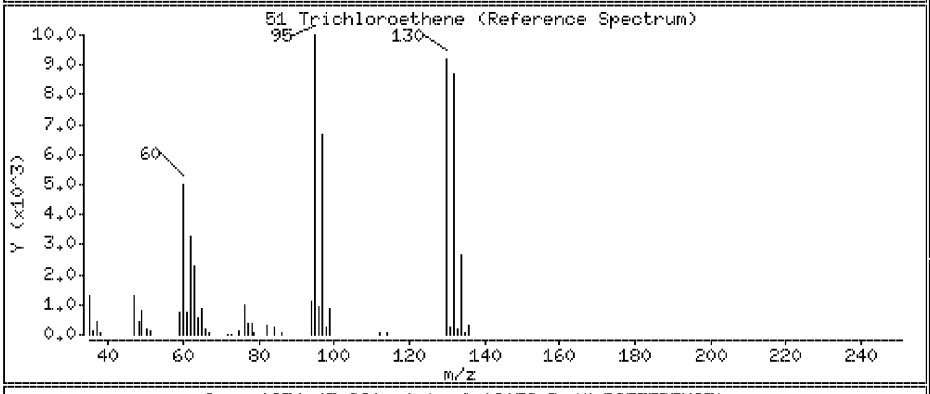
Column diameter: 0.32

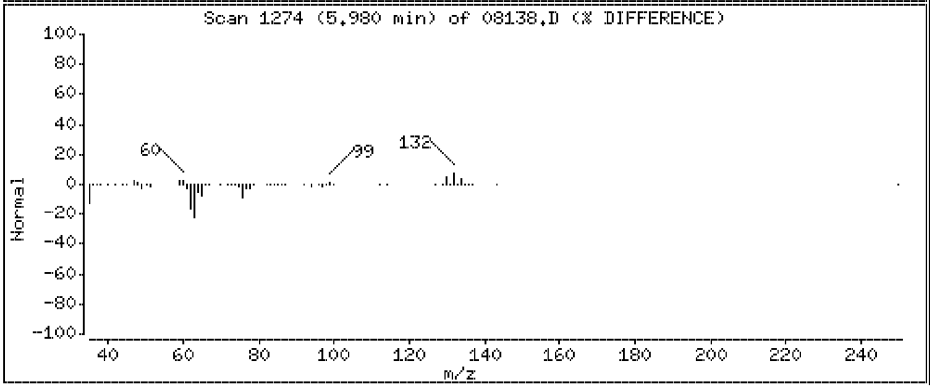
51 Trichloroethene

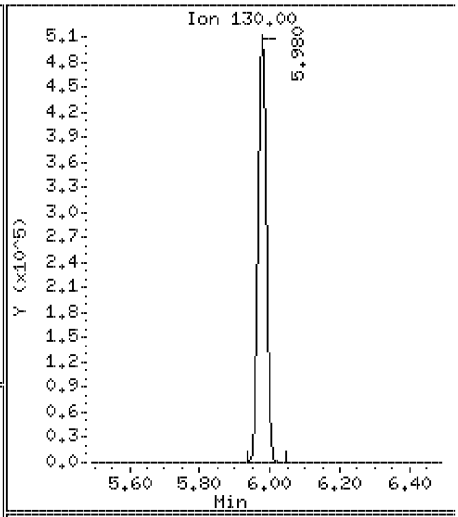
Concentration: 351 ppbv

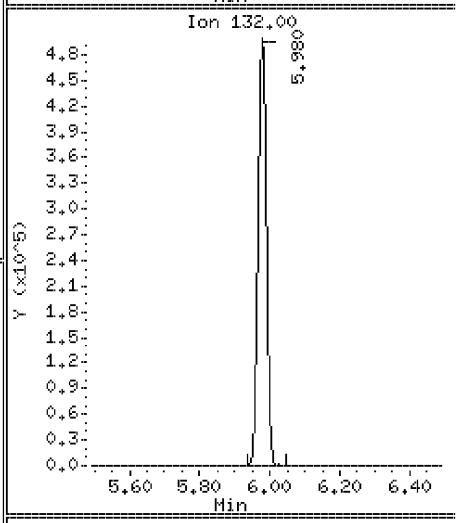


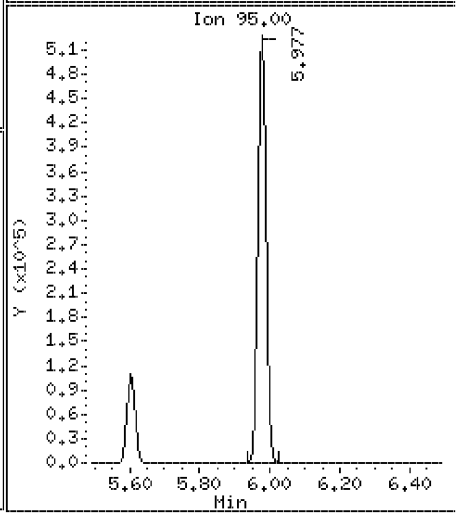












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08138.D

Date : 23-MAR-2017 04:46

Client ID:

Instrument: 10airB.i

Sample Info:

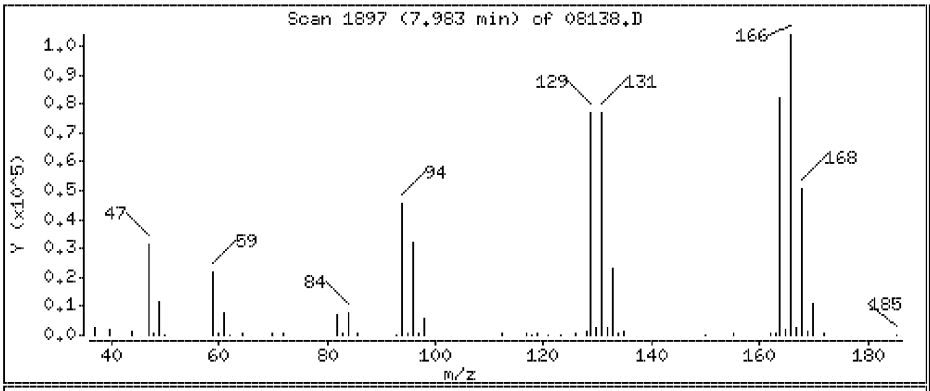
Operator: NCK

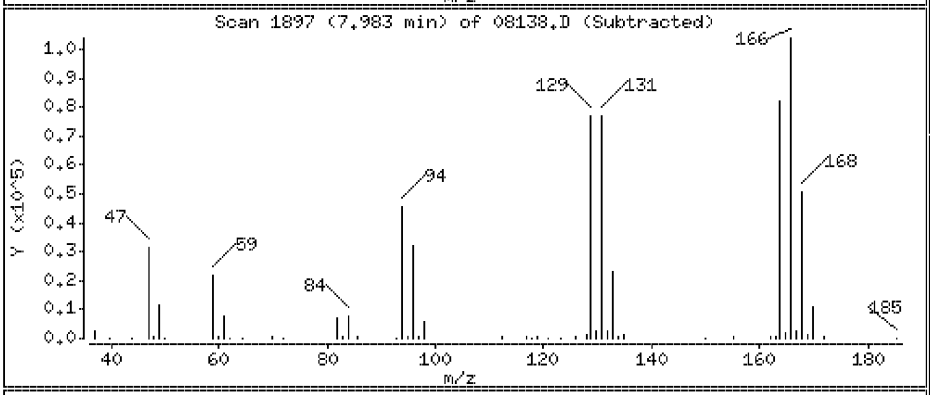
Column phase: J&W DB-5

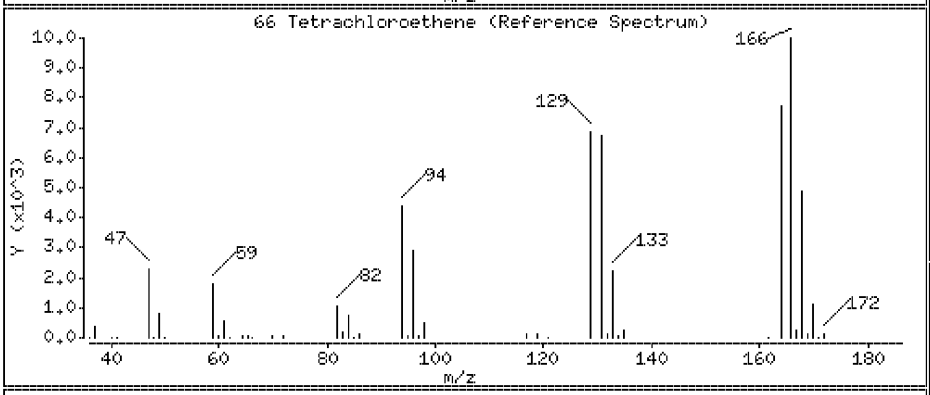
Column diameter: 0.32

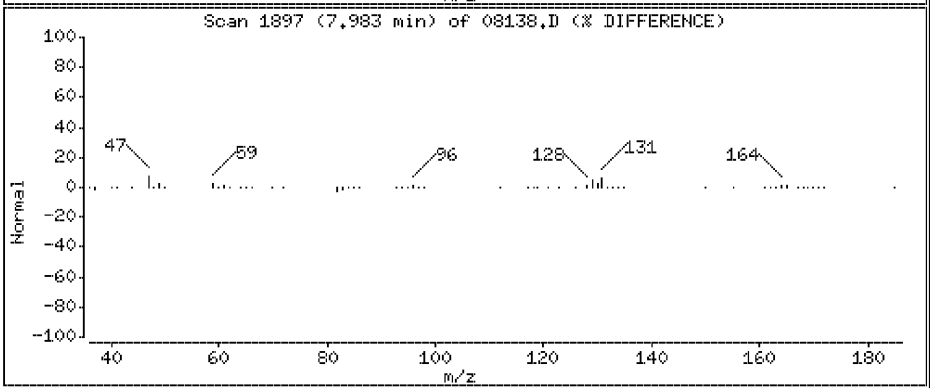
66 Tetrachloroethene

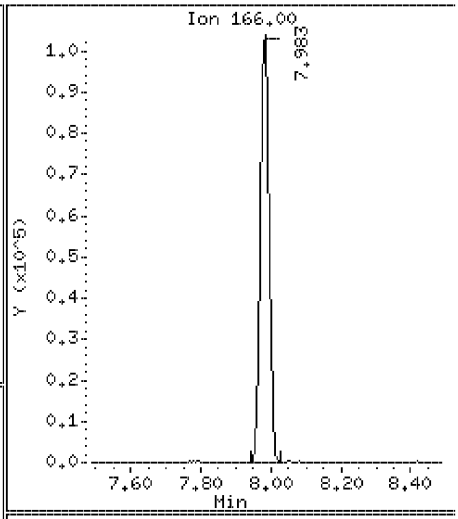
Concentration: 70.7 ppbv

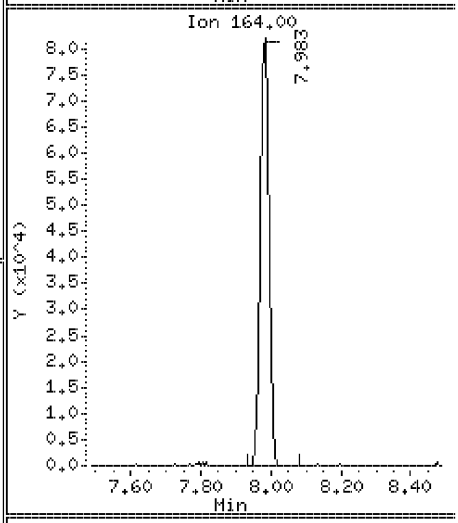


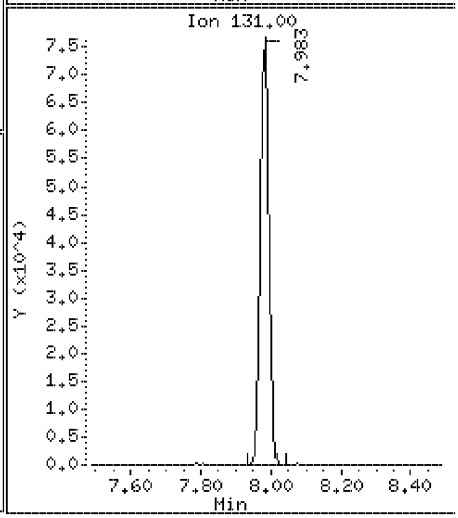






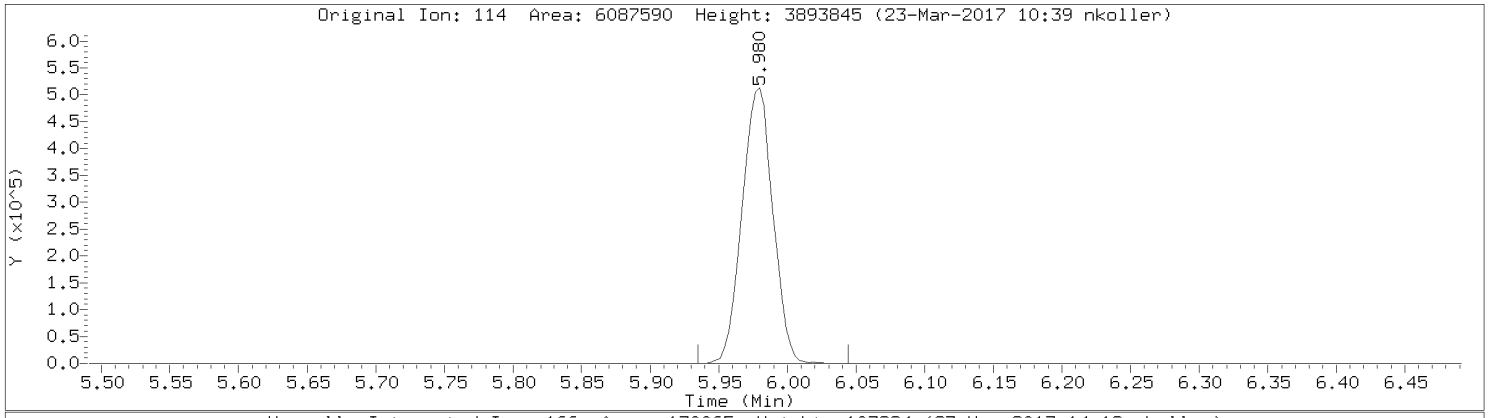


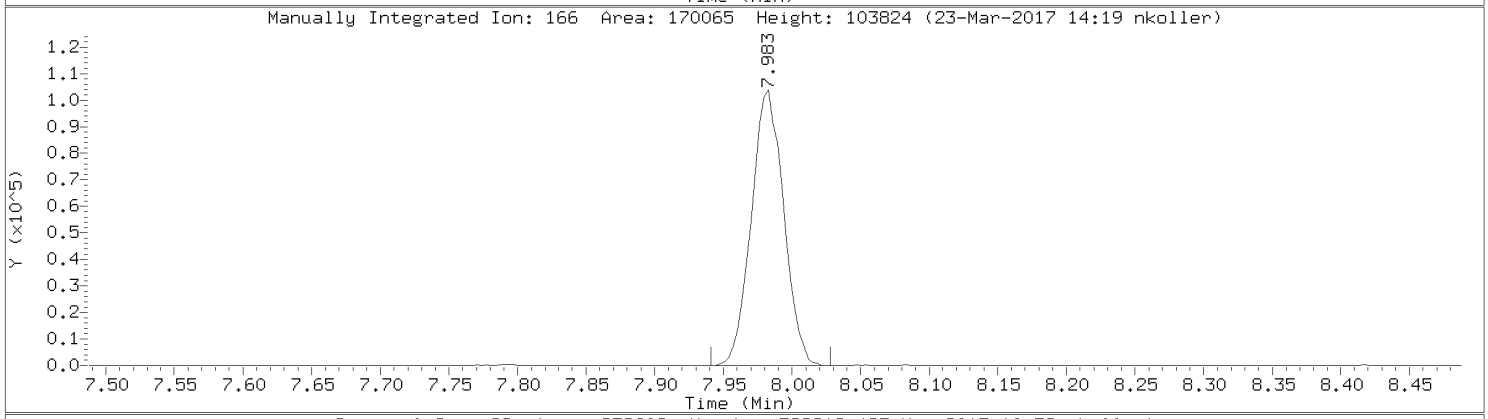


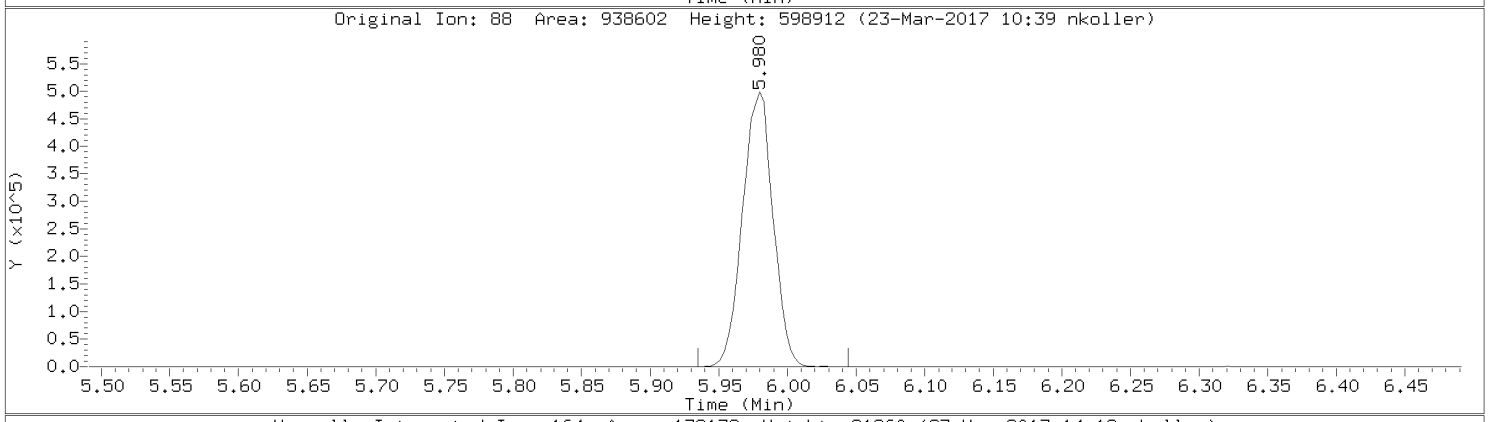


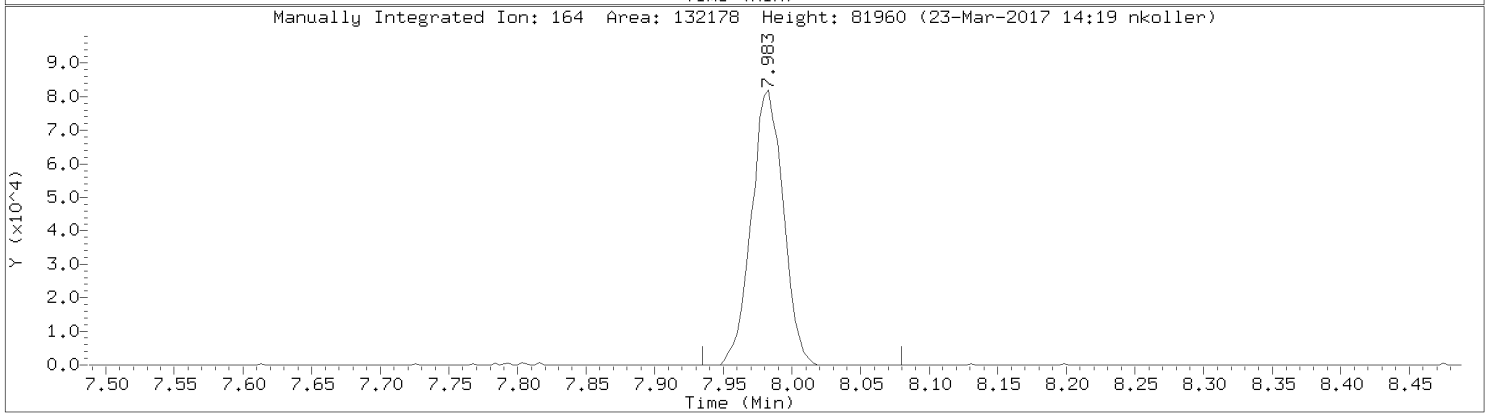
Data File: \\192.168.10.12\chem\10airB.i\032217.b/08138.D
Injection Date: 23-MAR-2017 04:46
Instrument: 10airB.i
Lab Sample ID: 10381035019

Compound: Tetrachloroethene
CAS Number: 127-18-4

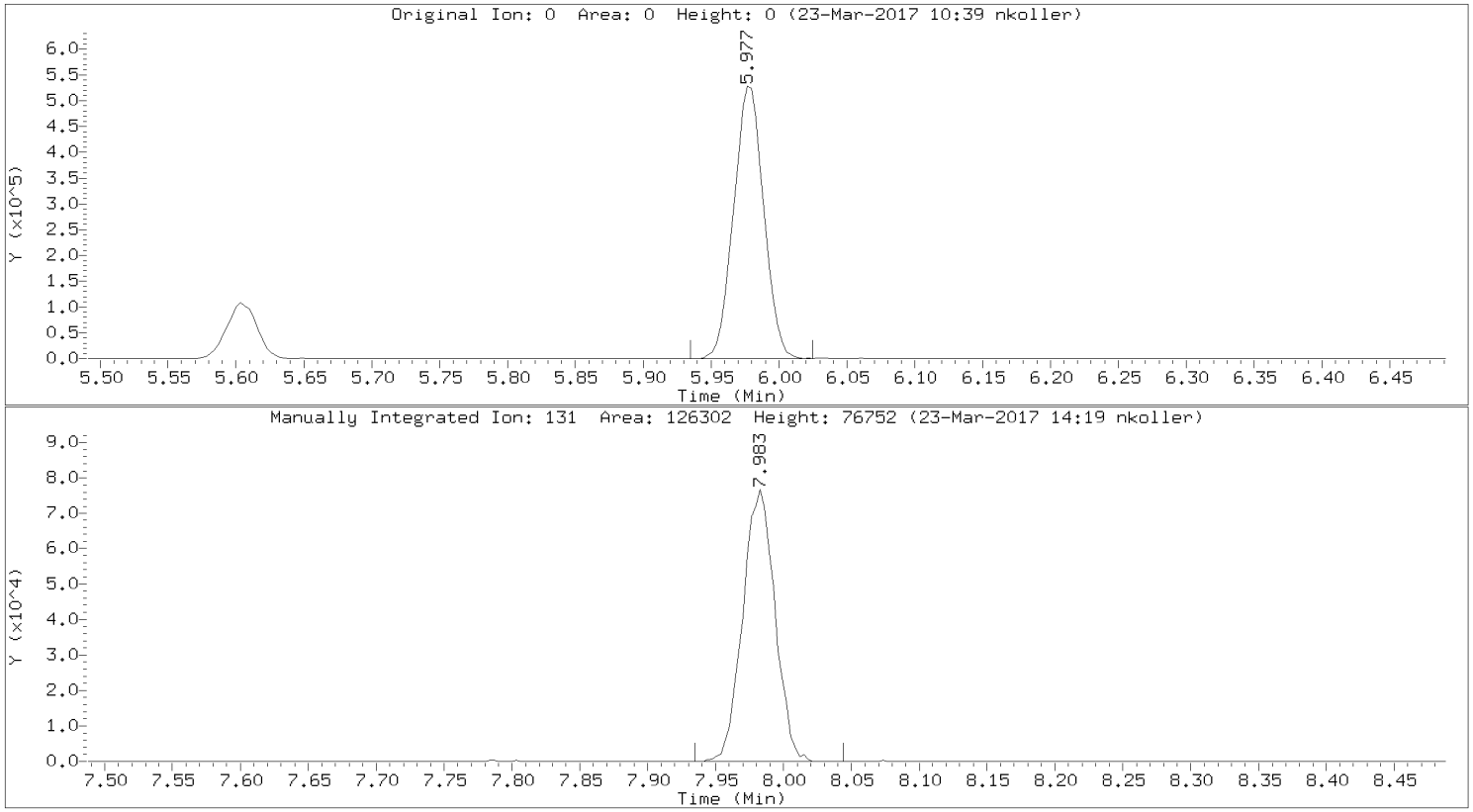








Data File: \\192.168.10.12\chem\10airB.i\032217.b/08138.D
Injection Date: 23-MAR-2017 04:46
Instrument: 10airB.i
Lab Sample ID: 10381035019



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_84_20170302 **Lab ID: 10381035019** Collected: 03/02/17 13:18 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.1**	ug/m3	3.4	0.32	1.34		03/22/17 00:12	67-63-0	
Styrene	**<0.26**	ug/m3	1.2	0.26	1.34		03/22/17 00:12	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.44**	ug/m3	1.9	0.44	1.34		03/22/17 00:12	79-34-5	
Tetrachloroethene	**395**	ug/m3	0.92	0.37	1.34		03/22/17 00:12	127-18-4	
Tetrachloroethene	**487**	ug/m3	24.7	10	35.91		03/23/17 04:46	127-18-4	
Toluene	**30.4**	ug/m3	1.0	0.21	1.34		03/22/17 00:12	108-88-3	
1,2,4-Trichlorobenzene	**<1.2**	ug/m3	5.1	1.2	1.34		03/22/17 00:12	120-82-1	
1,1,1-Trichloroethane	**2.4**	ug/m3	1.5	0.33	1.34		03/22/17 00:12	71-55-6	
1,1,2-Trichloroethane	**<0.33**	ug/m3	0.74	0.33	1.34		03/22/17 00:12	79-00-5	
Trichloroethene	**1040**	ug/m3	0.74	0.37	1.34		03/22/17 00:12	79-01-6	
Trichloroethene	**1920**	ug/m3	19.8	9.9	35.91		03/23/17 04:46	79-01-6	
Trichlorofluoromethane	**8.3**	ug/m3	1.5	0.18	1.34		03/22/17 00:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	**81.9**	ug/m3	2.1	0.40	1.34		03/22/17 00:12	76-13-1	
1,2,4-Trimethylbenzene	**1.4**	ug/m3	1.3	0.17	1.34		03/22/17 00:12	95-63-6	
1,3,5-Trimethylbenzene	**1.1J**	ug/m3	1.3	0.25	1.34		03/22/17 00:12	108-67-8	
Vinyl chloride	**<0.26**	ug/m3	0.35	0.26	1.34		03/22/17 00:12	75-01-4	
m&p-Xylene	**2.7**	ug/m3	2.4	1.1	1.34		03/22/17 00:12	179601-23-1	
o-Xylene	**0.66J**	ug/m3	1.2	0.47	1.34		03/22/17 00:12	95-47-6	

Sample: VP-106_72_20170302DUP **Lab ID: 10381035020** Collected: 03/02/17 13:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**25.6**	ug/m3	4.2	1.5	1.75		03/22/17 00:43	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/22/17 00:43	107-05-1	
Benzene	**0.91**	ug/m3	0.57	0.21	1.75		03/22/17 00:43	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/22/17 00:43	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/22/17 00:43	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/22/17 00:43	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/22/17 00:43	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/22/17 00:43	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/22/17 00:43	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/22/17 00:43	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/22/17 00:43	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/22/17 00:43	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/22/17 00:43	75-00-3	
Chloroform	**3.5**	ug/m3	0.87	0.33	1.75		03/22/17 00:43	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/22/17 00:43	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/22/17 00:43	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/22/17 00:43	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/22/17 00:43	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/22/17 00:43	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/22/17 00:43	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_72_20170302DUP **Lab ID: 10381035020** Collected: 03/02/17 13:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/22/17 00:43	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/22/17 00:43	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/22/17 00:43	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/22/17 00:43	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/22/17 00:43	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/22/17 00:43	107-06-2	
1,1-Dichloroethene	**2.7**	ug/m3	1.4	0.42	1.75		03/22/17 00:43	75-35-4	
cis-1,2-Dichloroethene	**72.3**	ug/m3	1.4	0.43	1.75		03/22/17 00:43	156-59-2	
trans-1,2-Dichloroethene	**3.3**	ug/m3	1.4	0.67	1.75		03/22/17 00:43	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/22/17 00:43	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/22/17 00:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/22/17 00:43	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/22/17 00:43	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/22/17 00:43	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/22/17 00:43	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/22/17 00:43	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.8	0.33	1.75		03/22/17 00:43	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/22/17 00:43	87-68-3	
n-Hexane	**0.98J**	ug/m3	1.3	0.62	1.75		03/22/17 00:43	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/22/17 00:43	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/22/17 00:43	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/22/17 00:43	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/22/17 00:43	108-87-2	
Methylene Chloride	**<0.95**	ug/m3	6.2	0.95	1.75		03/22/17 00:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/22/17 00:43	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/22/17 00:43	1634-04-4	
2-Propanol	**2.9J**	ug/m3	4.4	0.42	1.75		03/22/17 00:43	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.34	1.75		03/22/17 00:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/22/17 00:43	79-34-5	
Tetrachloroethene	**552**	ug/m3	1.2	0.49	1.75		03/22/17 00:43	127-18-4	
Tetrachloroethene	**35.4**	ug/m3	1.2	0.49	1.75		03/23/17 06:10	127-18-4	
Toluene	**22.5**	ug/m3	1.3	0.27	1.75		03/22/17 00:43	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/22/17 00:43	120-82-1	
1,1,1-Trichloroethane	**1.5J**	ug/m3	1.9	0.43	1.75		03/22/17 00:43	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/22/17 00:43	79-00-5	
Trichloroethene	**1330**	ug/m3	0.96	0.48	1.75		03/22/17 00:43	79-01-6	
Trichloroethene	**124**	ug/m3	0.96	0.48	1.75		03/23/17 06:10	79-01-6	
Trichlorofluoromethane	**9.6**	ug/m3	2.0	0.23	1.75		03/22/17 00:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**82.7**	ug/m3	2.8	0.53	1.75		03/22/17 00:43	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.22	1.75		03/22/17 00:43	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/22/17 00:43	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/22/17 00:43	75-01-4	
m&p-Xylene	**2.1J**	ug/m3	3.1	1.4	1.75		03/22/17 00:43	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/22/17 00:43	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D
Report Date: 23-Mar-2017 15:49

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08032.D
Lab Smp Id: 10381035020
Inj Date : 22-MAR-2017 00:43
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 32
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	3.462	3.471	(0.617)	1770	0.06196	0.108	
12	Ethanol	45	3.545	3.545	(0.632)	96537	4.09515	7.17	(M)
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.664	3.677	(0.653)	122965	0.96506	1.69	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.729	3.722	(0.665)	616926	6.06152	10.6	
19	Isopropyl Alcohol	45	3.774	3.764	(0.673)	80887	0.66020	1.16	(Q)
20	1,1-Dichloroethene	61	3.902	3.912	(0.696)	35317	0.38329	0.671	
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.947	3.951	(0.704)	589122	6.06826	10.6	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D
Report Date: 23-Mar-2017 15:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.253	4.275	(0.758)	20783	0.46452	0.813(Q)	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	4.449	4.388	(0.793)	38589	0.25229	0.442(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.799)	2048784	9.49300	9.49	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.574	4.587	(0.815)	16907	0.15659	0.274(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.709	4.725	(0.840)	563021	10.2468	17.9(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.819	4.841	(0.859)	46055	0.40127	0.702	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.217	5.233	(0.930)	20298	0.15055	0.263	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	5.465	5.465	(0.974)	29018	0.15998	0.280	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.610	5.613	(1.000)	6296792	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.986	5.986	(1.067)	11786219	138.994	243(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	5536393	9.54804	9.55	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.153	7.153	(1.275)	707892	3.36089	5.88	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.581	(0.876)	30486	0.20539	0.359(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						(D)
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	4194541	45.7881	80.1(A)	
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	4038468	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.079	9.082	(1.051)	24052	0.27689	0.485	
	71 n-Nonane	43	9.503	9.468	(1.100)	25369	0.20391	0.357(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.516	9.507	(1.101)	2084	0.14347	0.251(M)	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D
Report Date: 23-Mar-2017 15:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.905	10.915	(1.262)	2695	0.16912	0.296(M)	
79	1,3,5-Trimethylbenzene	105	10.995	10.998	(1.272)	1244	0.14591	0.255(Q)	
80	n-Decane	57	11.375	11.381	(2.028)	41196	0.32656	0.571(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.513	11.510	(1.332)	6958	0.16262	0.285(M)	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	1901429	9.75673	9.76	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.031	12.034	(1.392)	1859	0.15667	0.274	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.162	14.156	(1.639)	3378	0.45268	0.792(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D
Report Date: 23-Mar-2017 15:49

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08032.D
Lab Smp Id: 10381035020
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

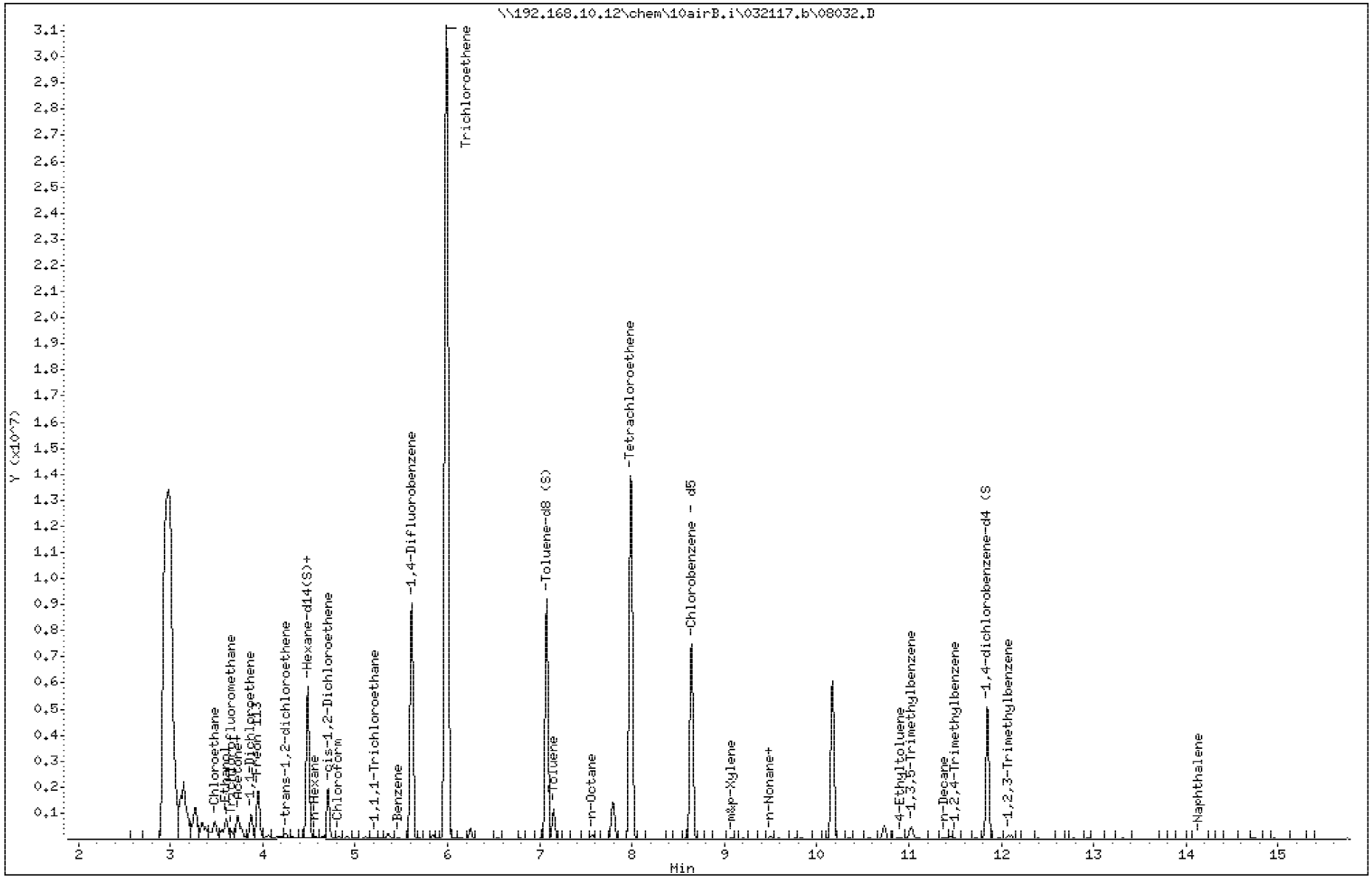
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6296792	-17.59
67 Chlorobenzene - d	5205948	3123569	7288327	4038468	-22.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D
Date : 22-MAR-2017 00:43
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

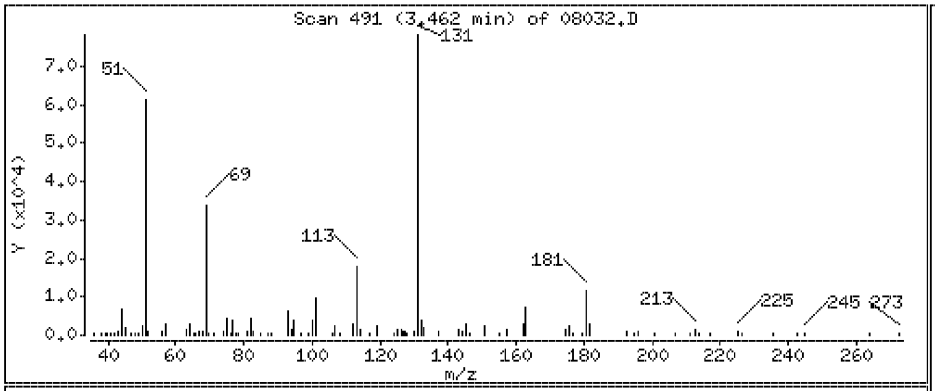
Operator: NCK

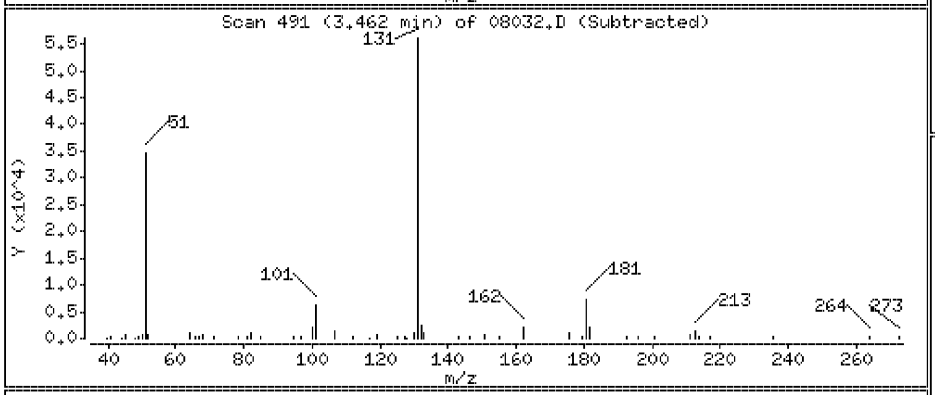
Column phase: J&W DB-5

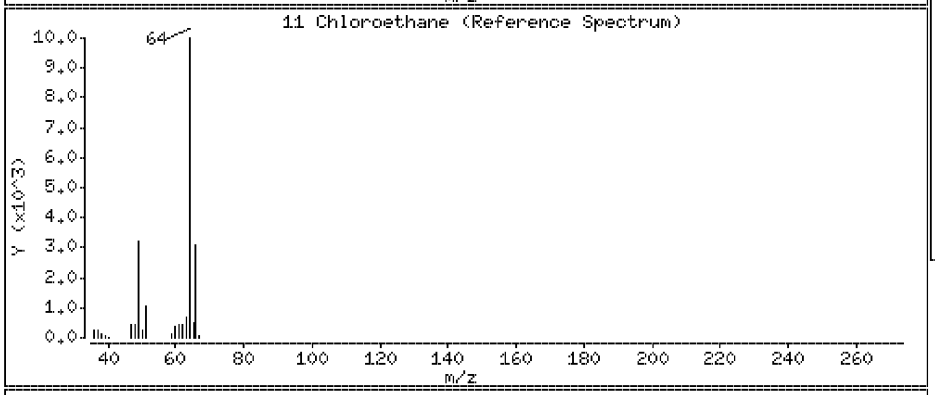
Column diameter: 0.32

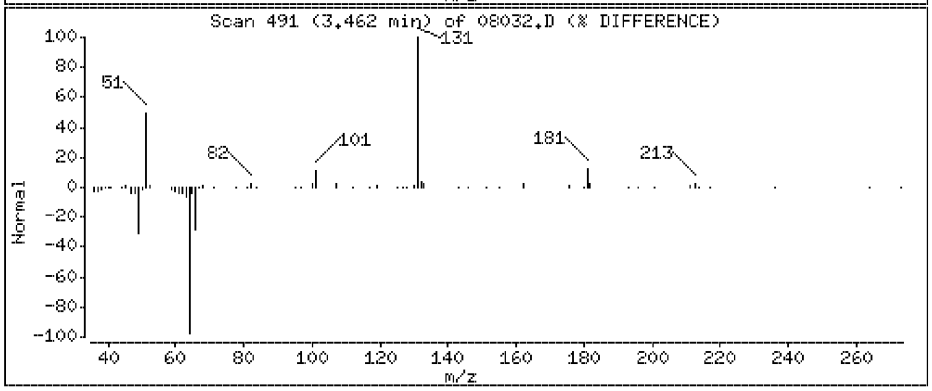
11 Chloroethane

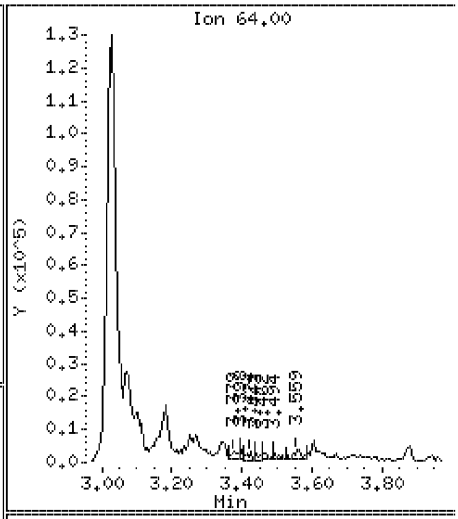
Concentration: 0.108 ppbv

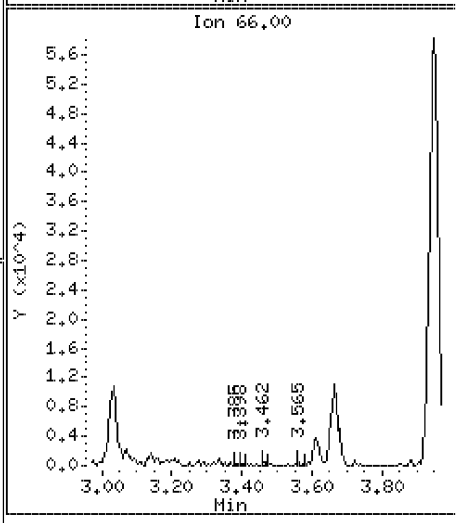












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

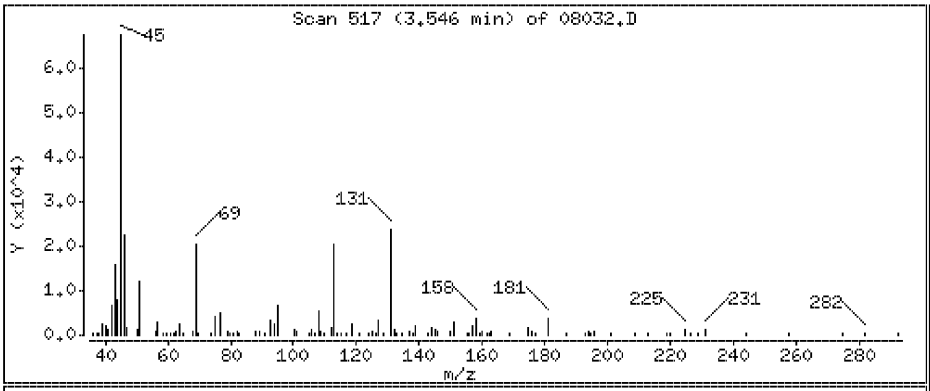
Operator: NCK

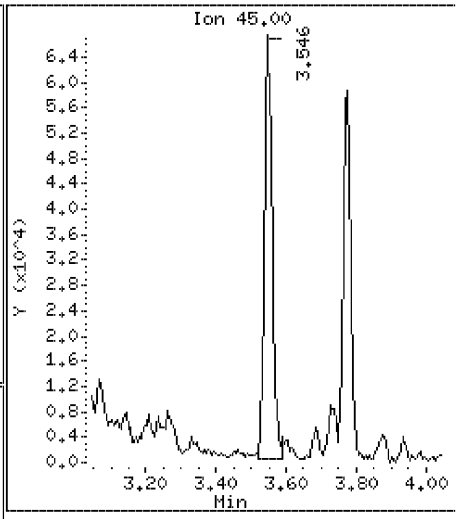
Column phase: J&W DB-5

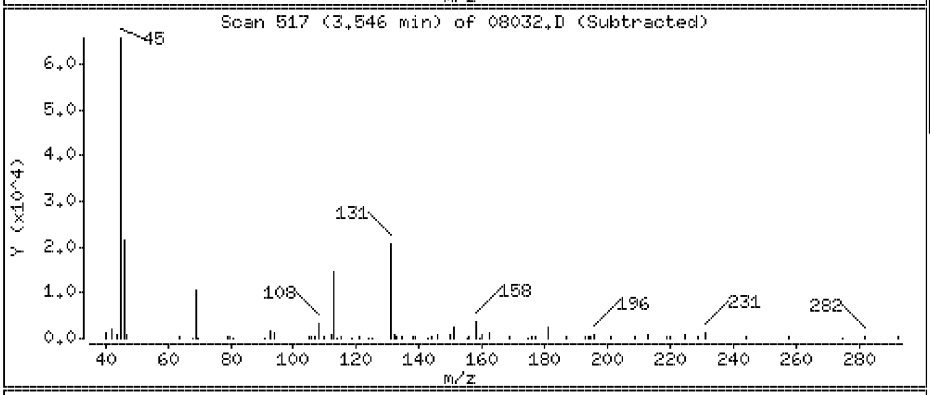
Column diameter: 0.32

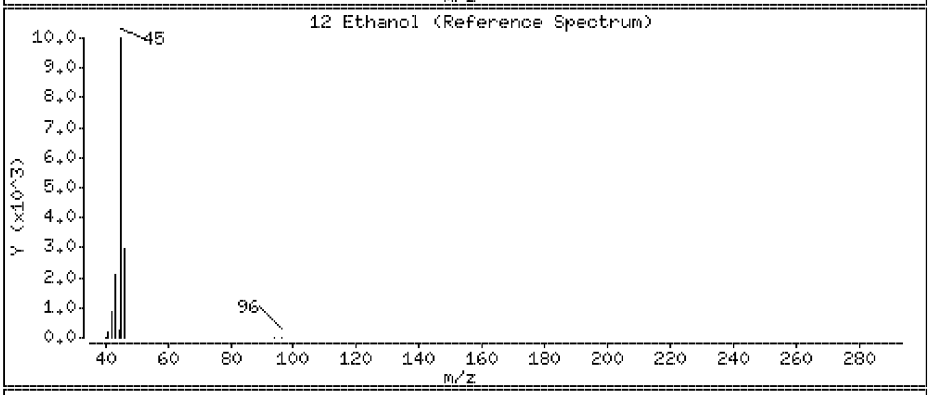
12 Ethanol

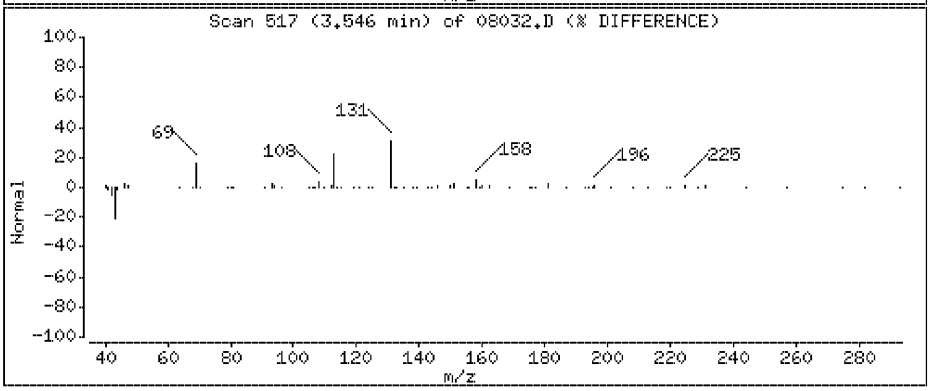
Concentration: 7.17 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

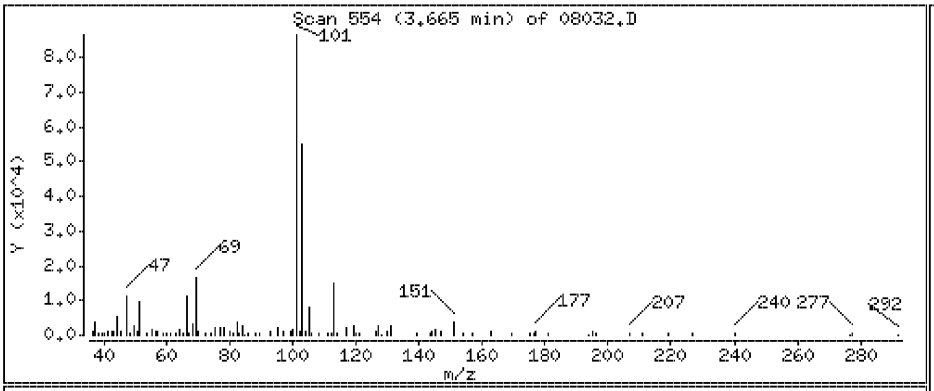
Operator: NCK

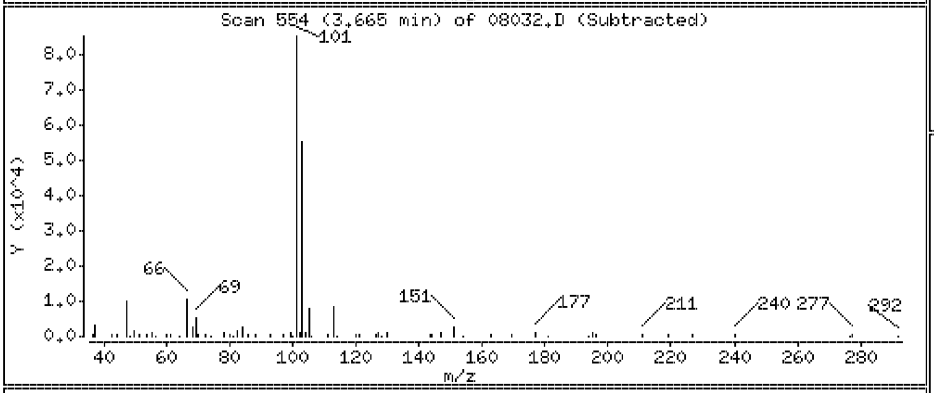
Column phase: J&W DB-5

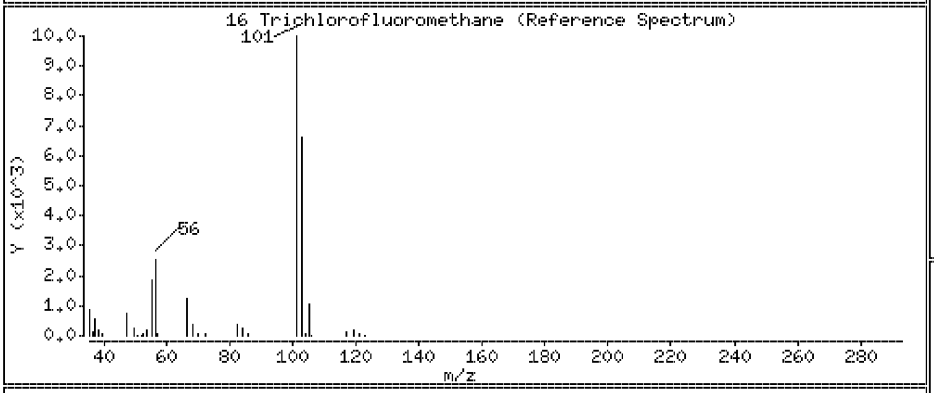
Column diameter: 0.32

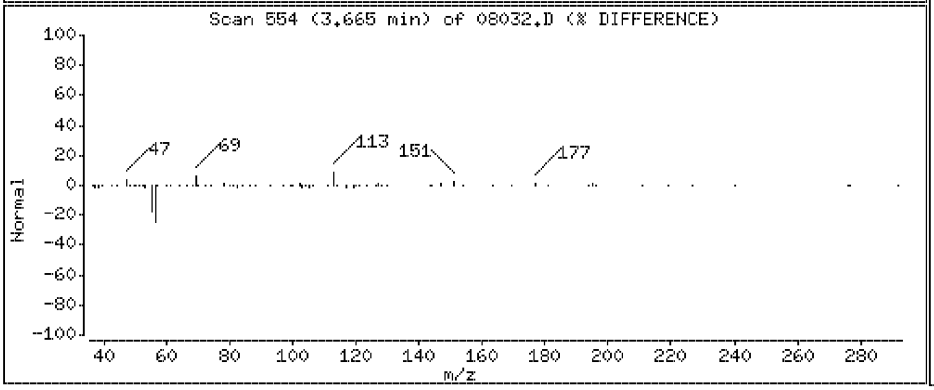
16 Trichlorofluoromethane

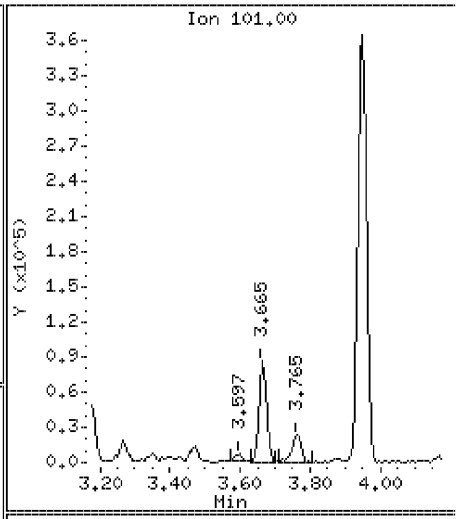
Concentration: 1.69 ppbv

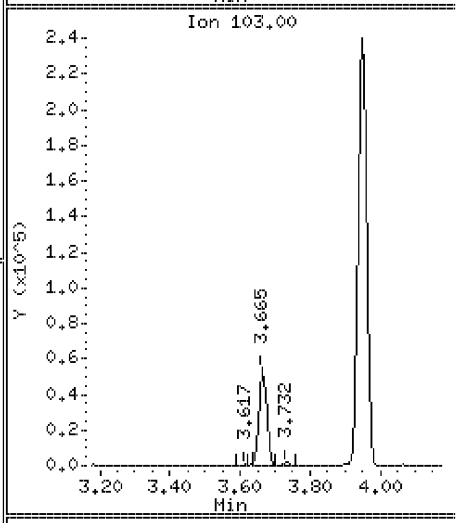


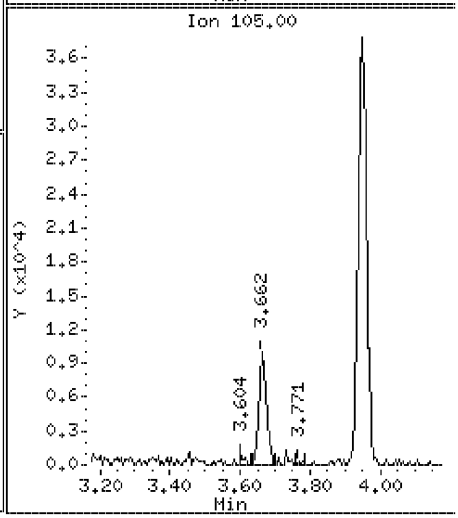












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

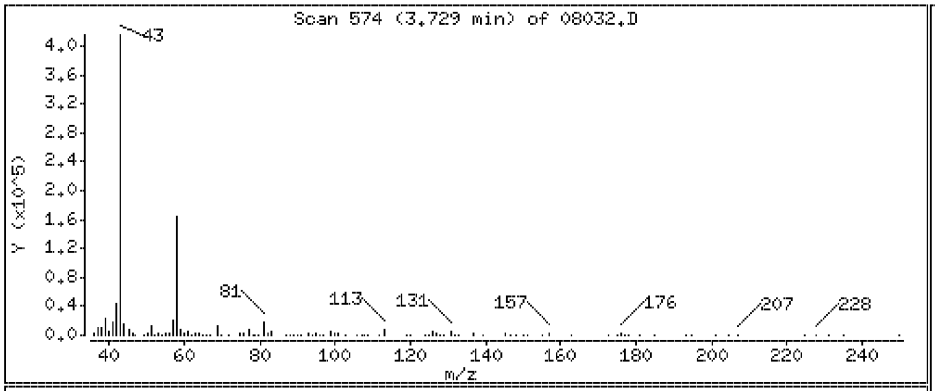
Operator: NCK

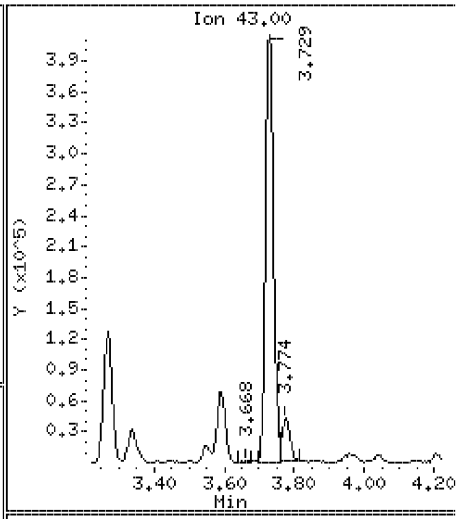
Column phase: J&W DB-5

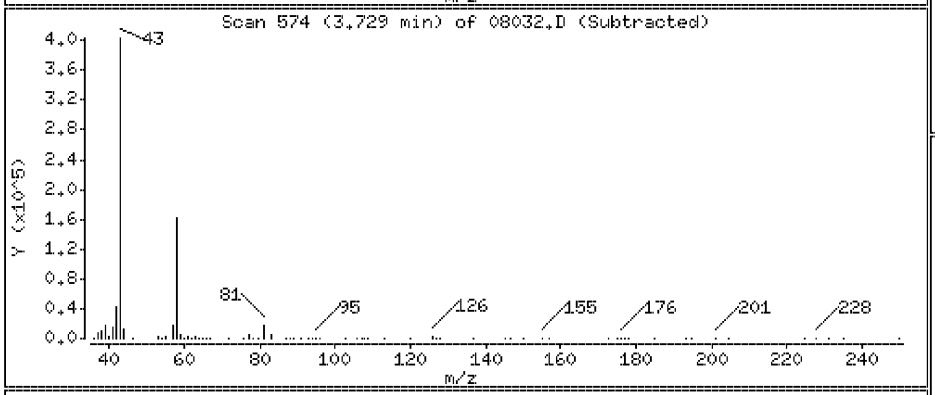
Column diameter: 0.32

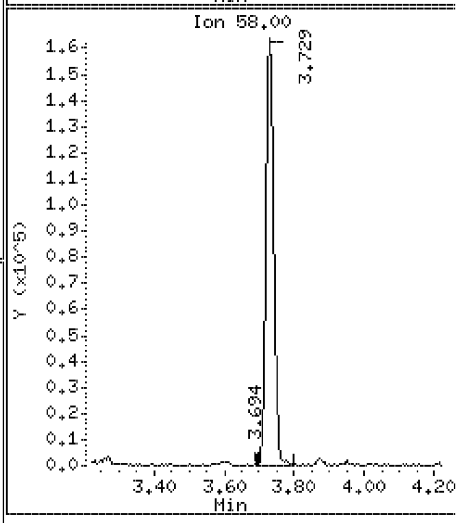
18 Acetone

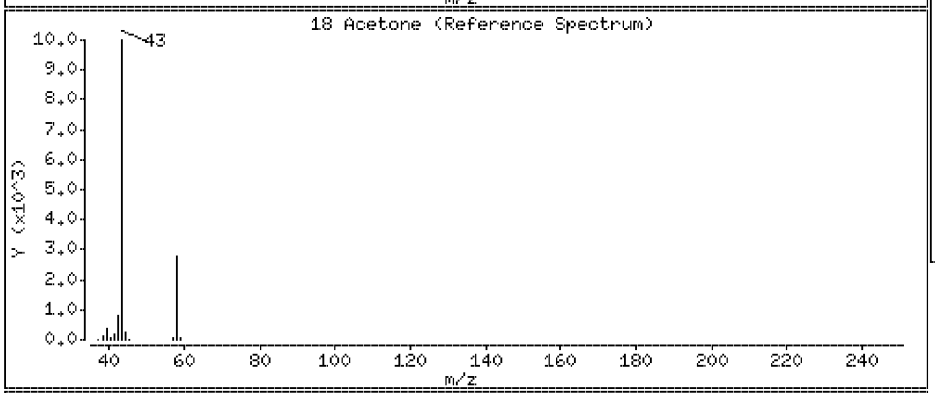
Concentration: 10.6 ppbv

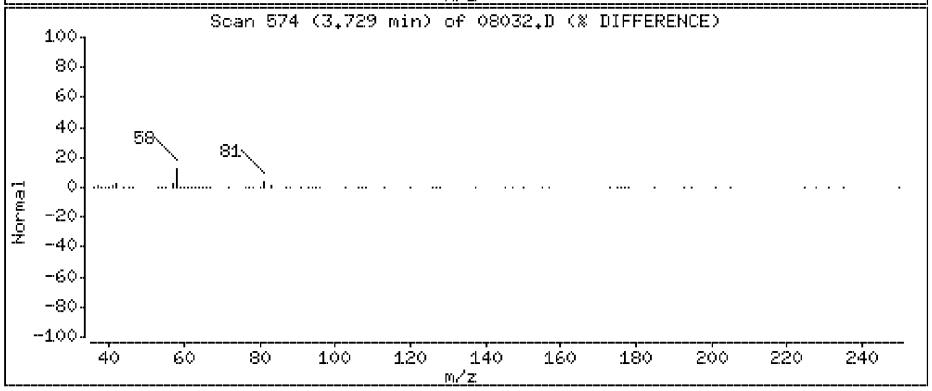












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

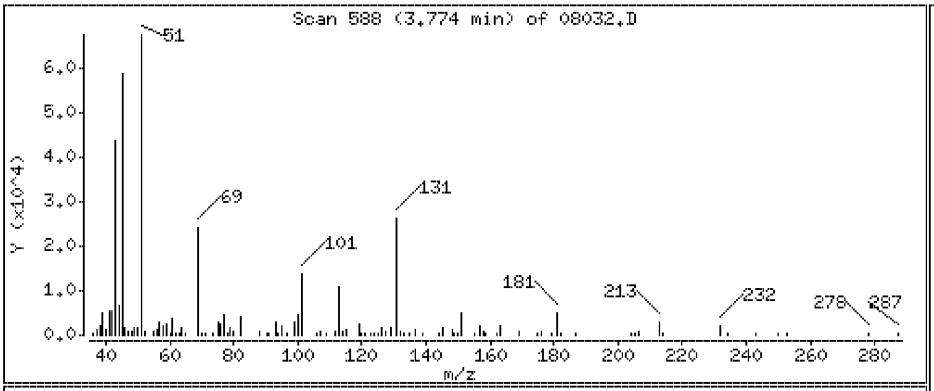
Operator: NCK

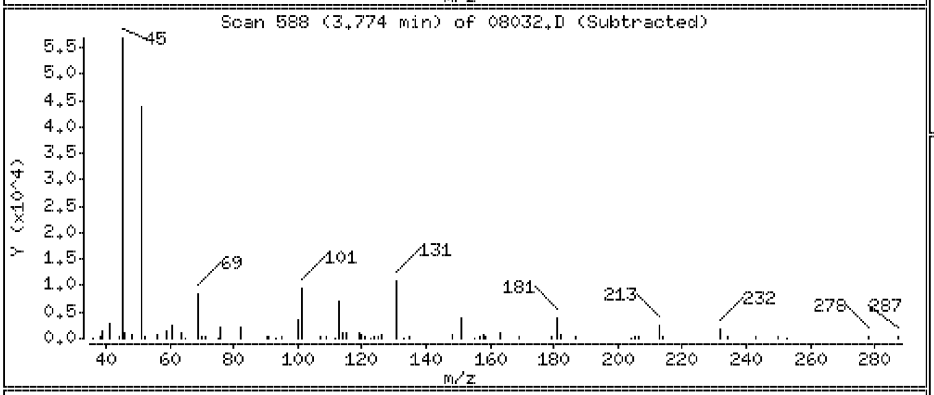
Column phase: J&W DB-5

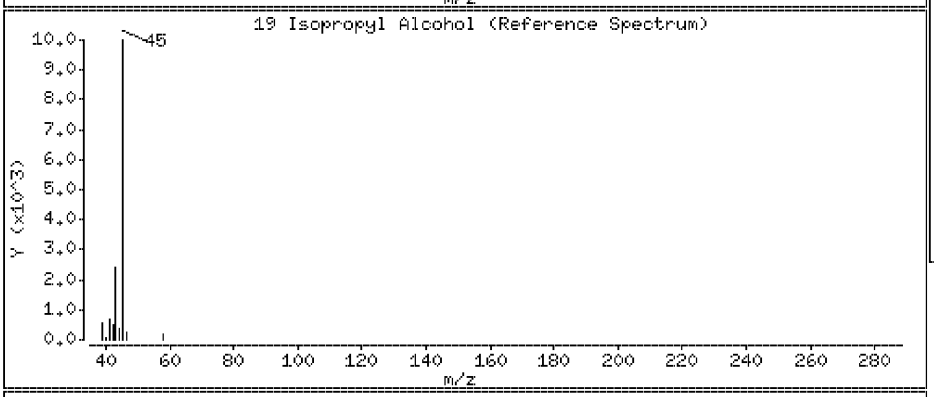
Column diameter: 0.32

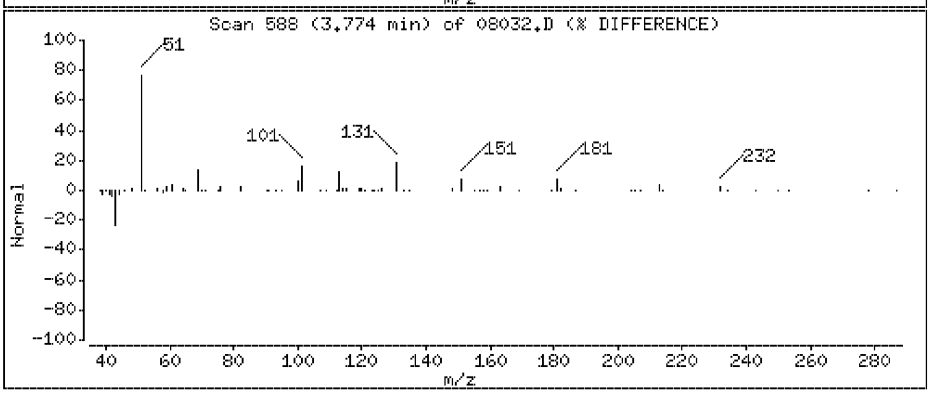
19 Isopropyl Alcohol

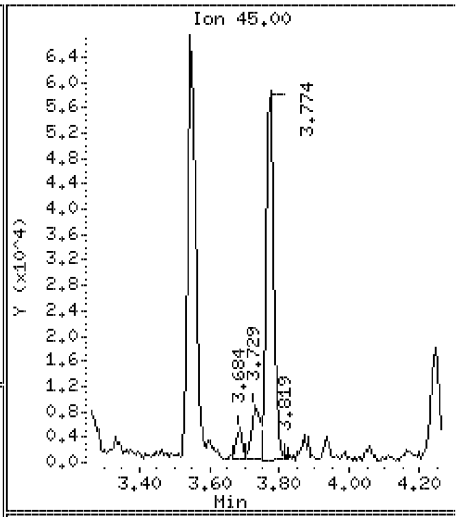
Concentration: 1.16 ppbv

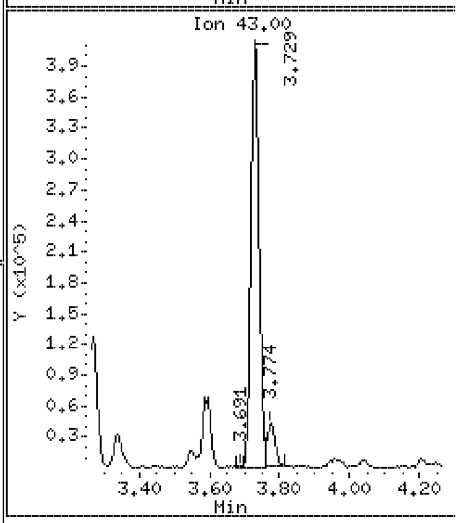












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

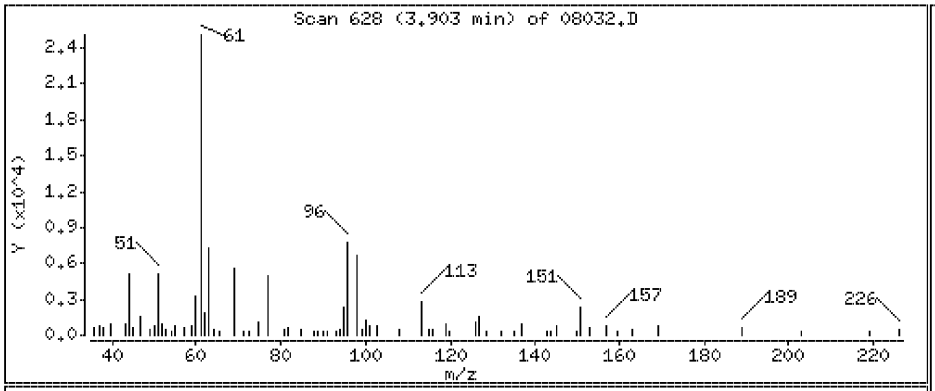
Operator: NCK

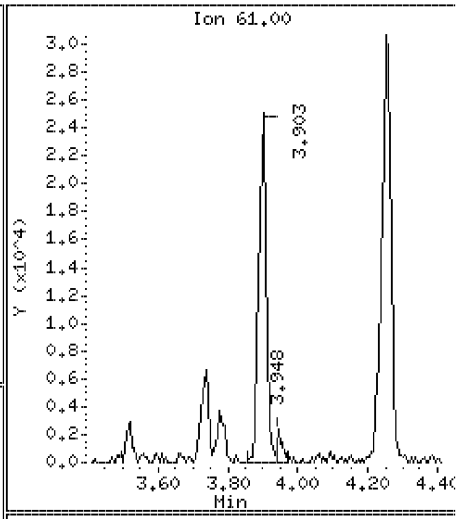
Column phase: J&W DB-5

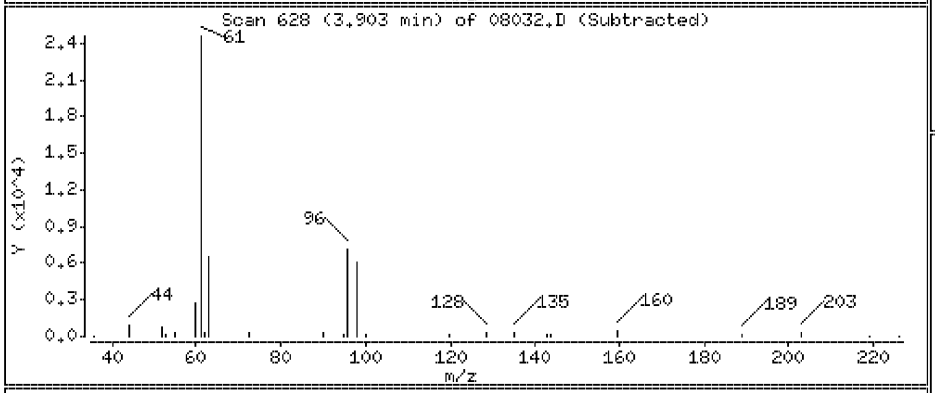
Column diameter: 0.32

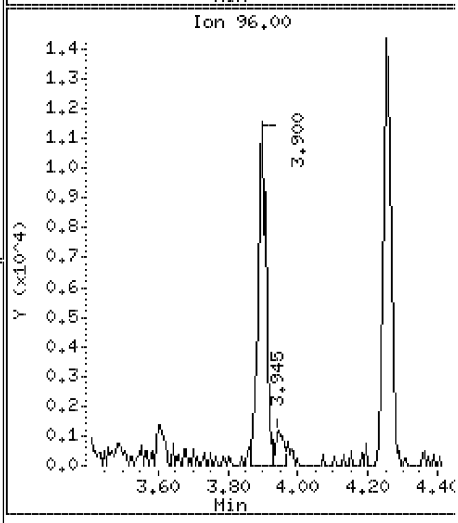
20 1,1-Dichloroethene

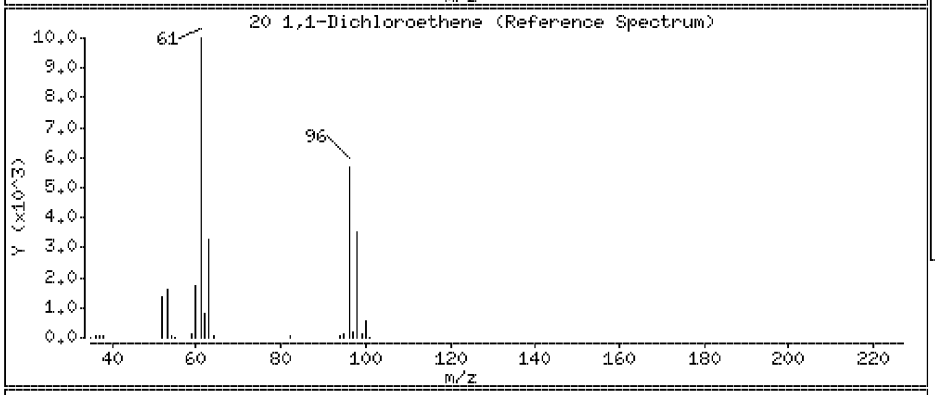
Concentration: 0.671 ppbv

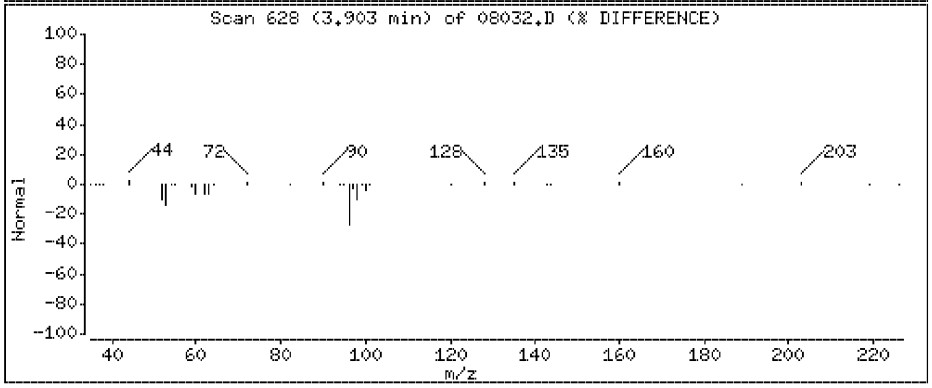












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

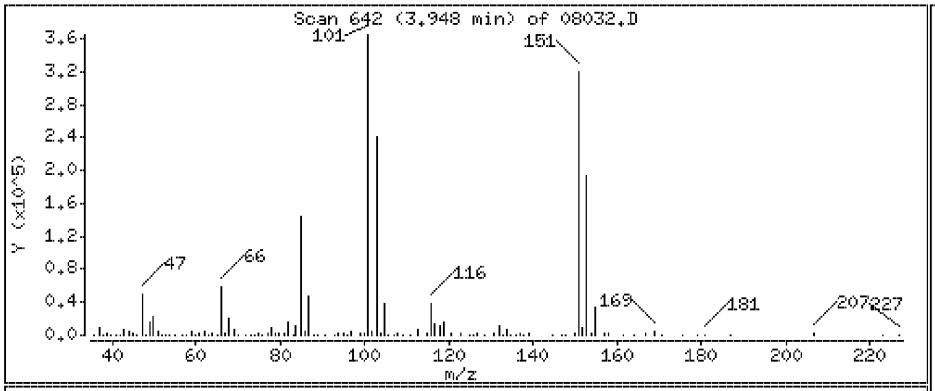
Operator: NCK

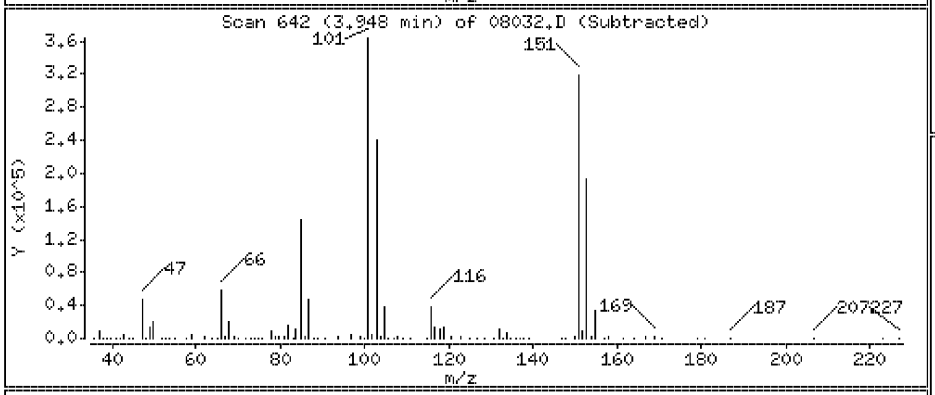
Column phase: J&W DB-5

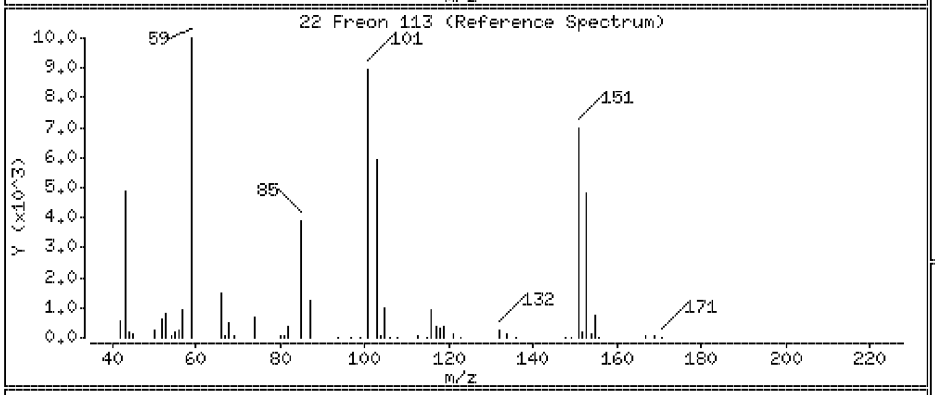
Column diameter: 0.32

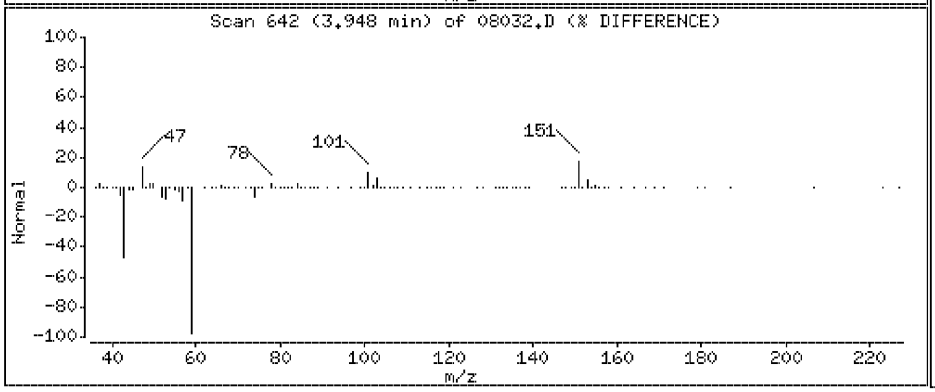
22 Freon 113

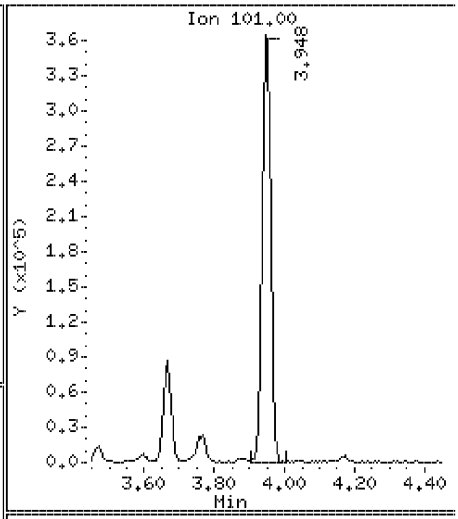
Concentration: 10.6 ppbv

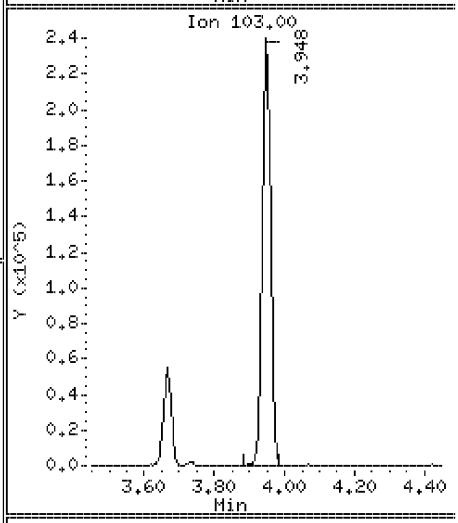


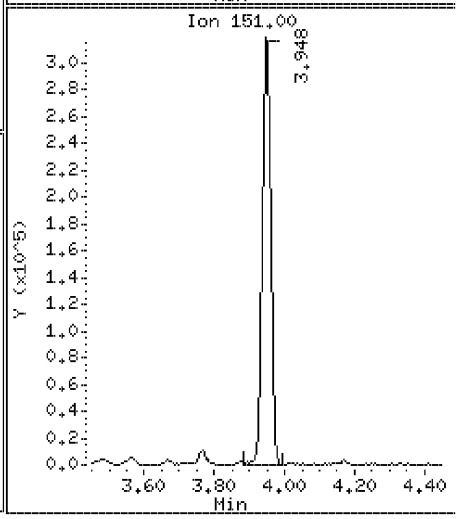












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

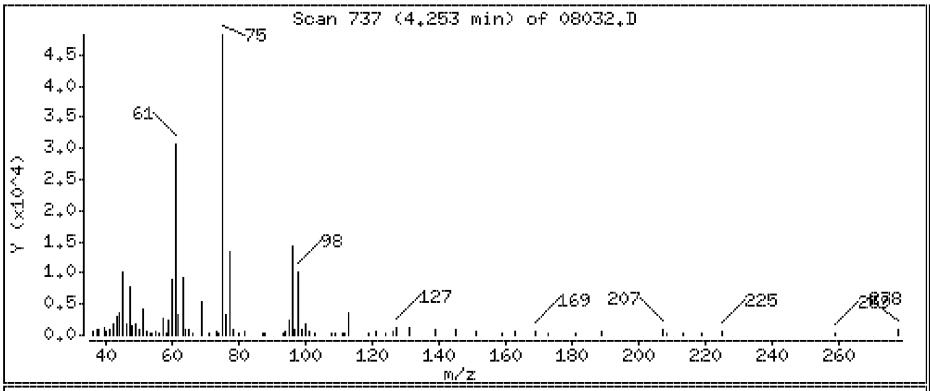
Operator: NCK

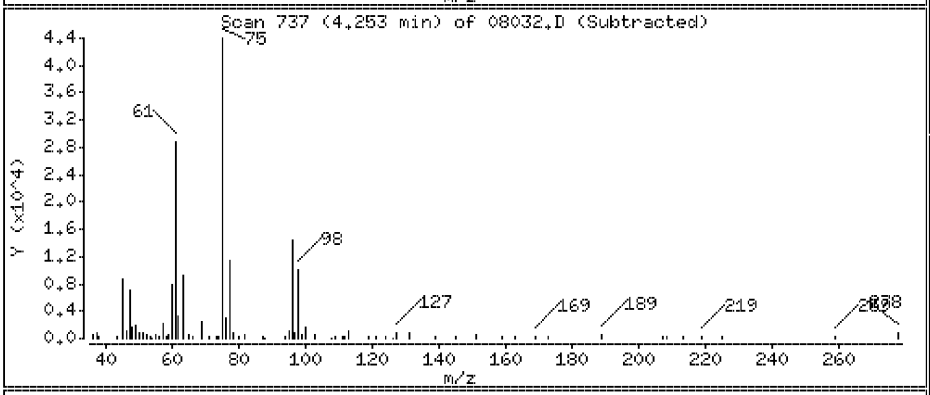
Column phase: J&W DB-5

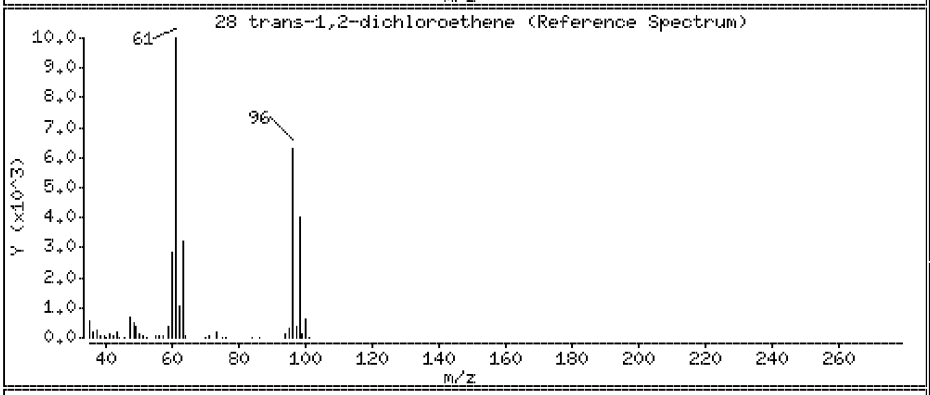
Column diameter: 0.32

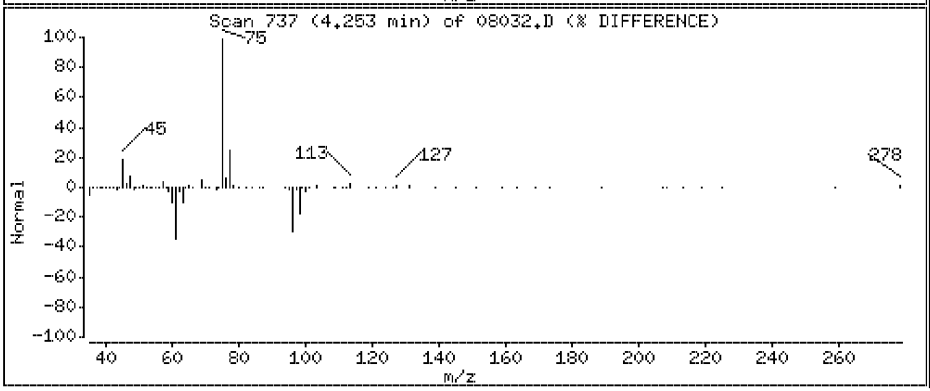
28 trans-1,2-dichloroethene

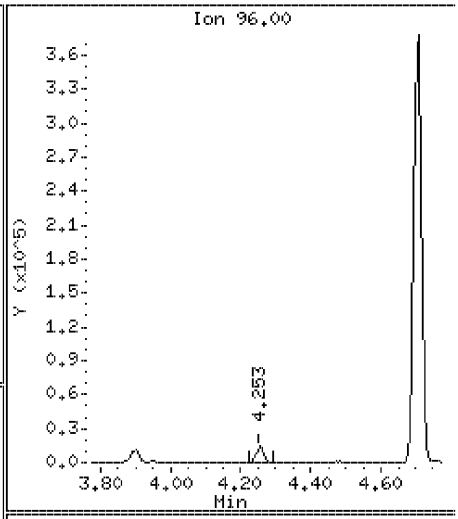
Concentration: 0.813 ppbv

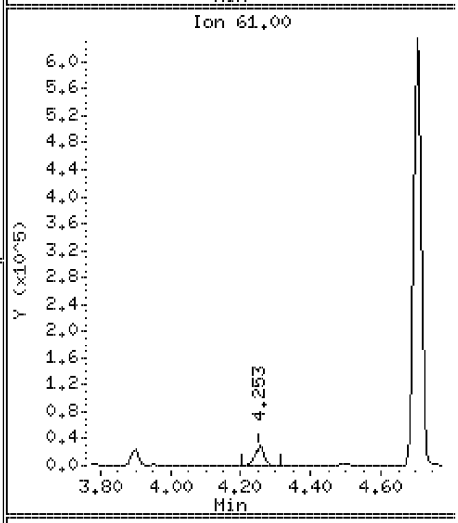


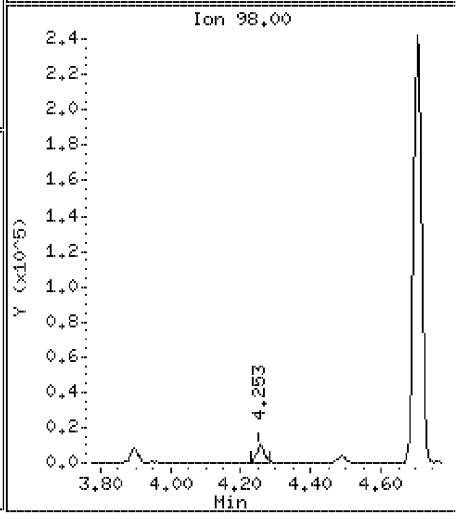












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

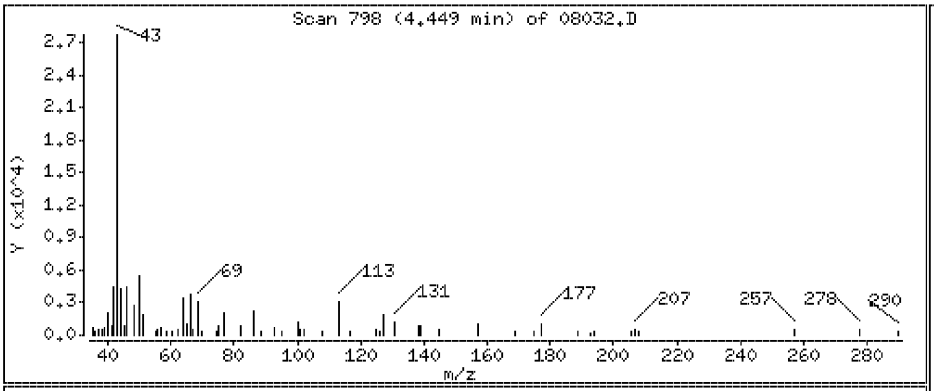
Operator: NCK

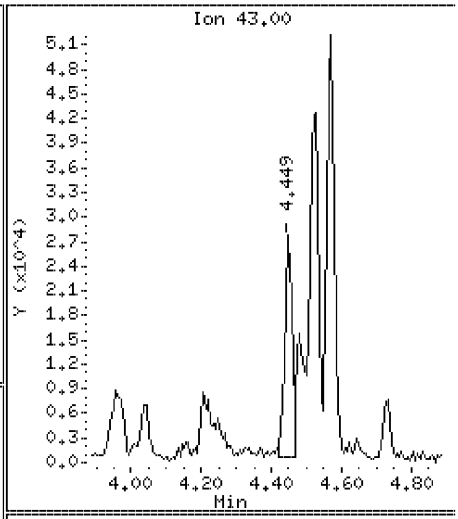
Column phase: J&W DB-5

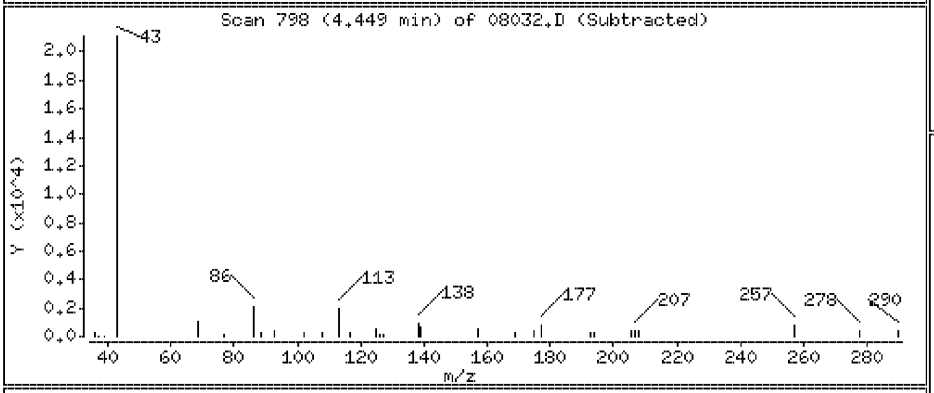
Column diameter: 0.32

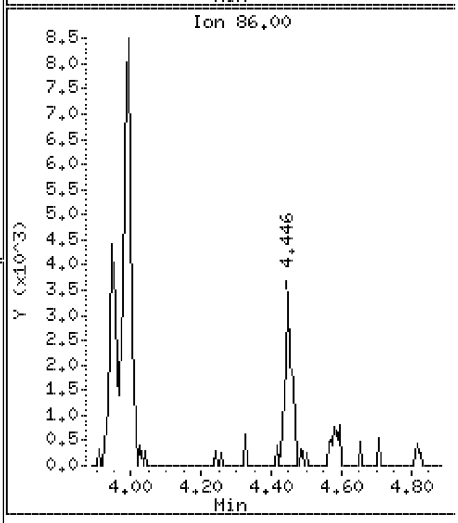
30 Vinyl Acetate

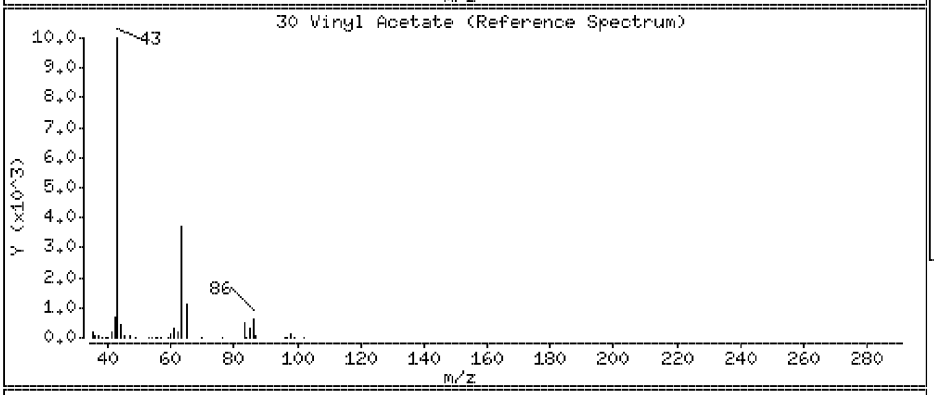
Concentration: 0.442 ppbv

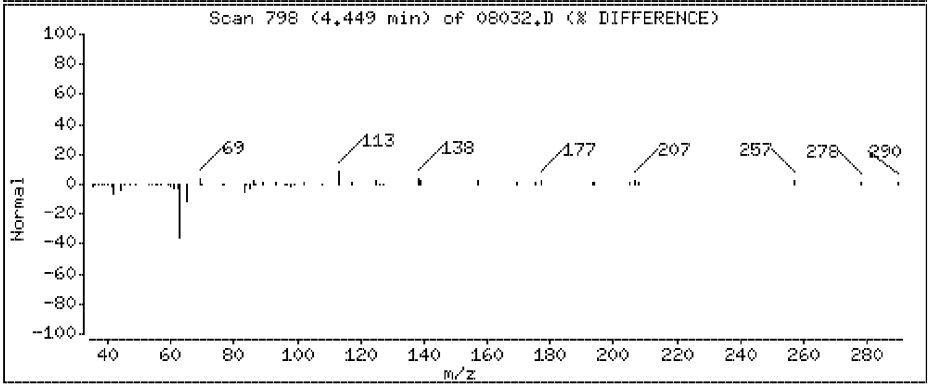












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

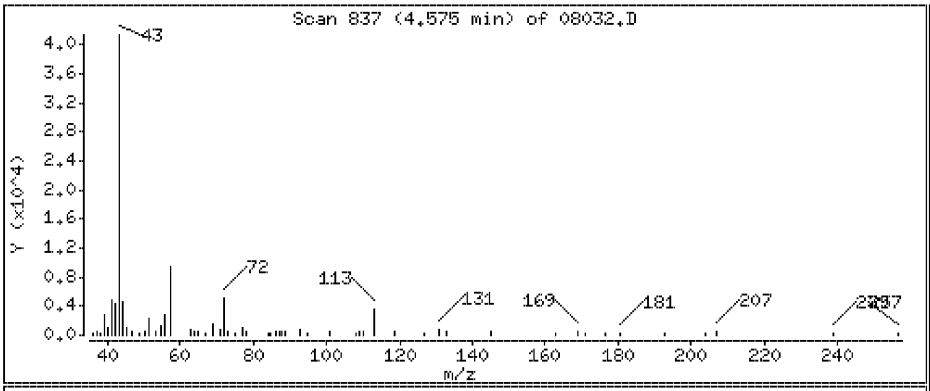
Operator: NCK

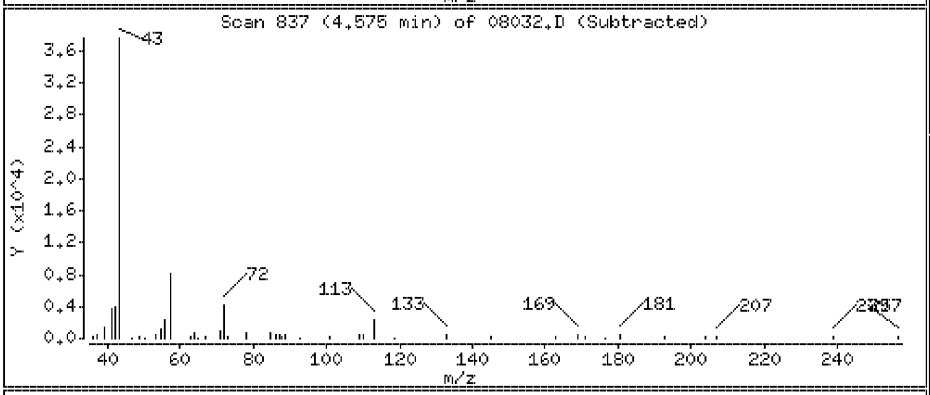
Column phase: J&W DB-5

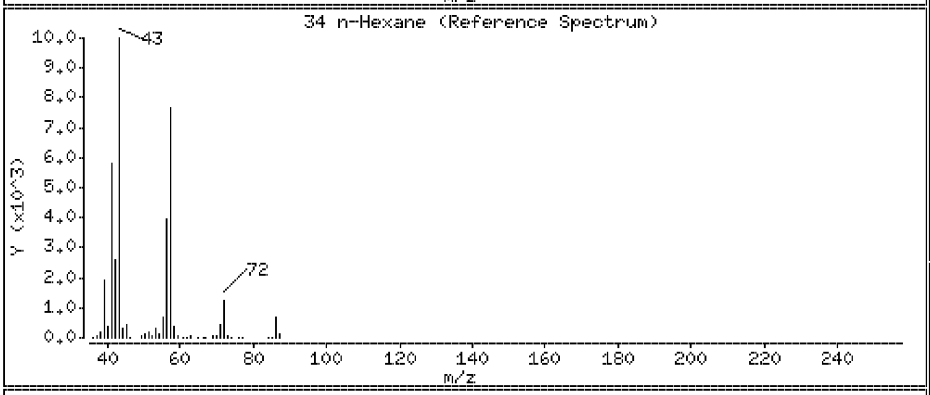
Column diameter: 0.32

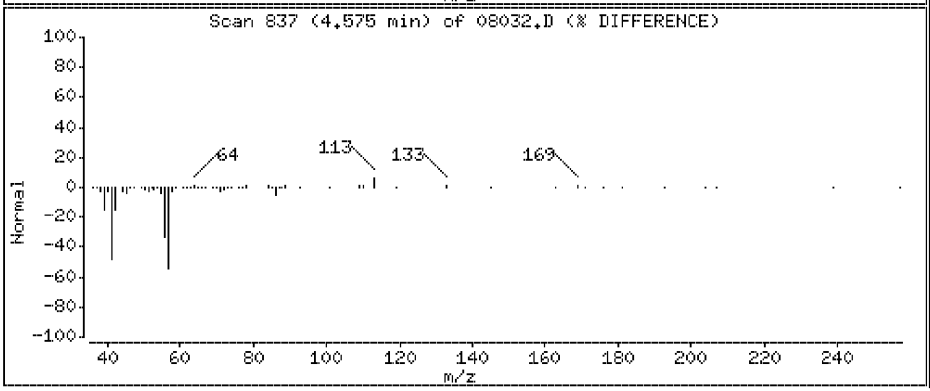
34 n-Hexane

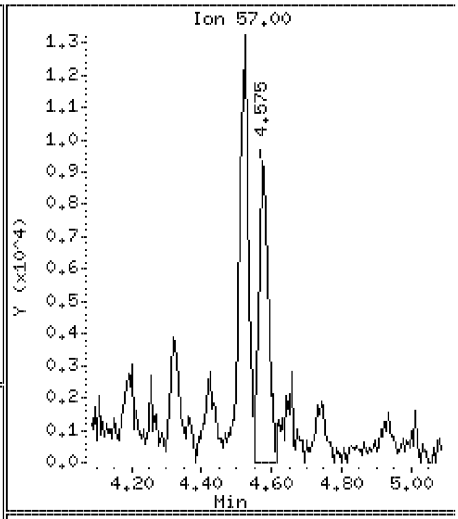
Concentration: 0.274 ppbv

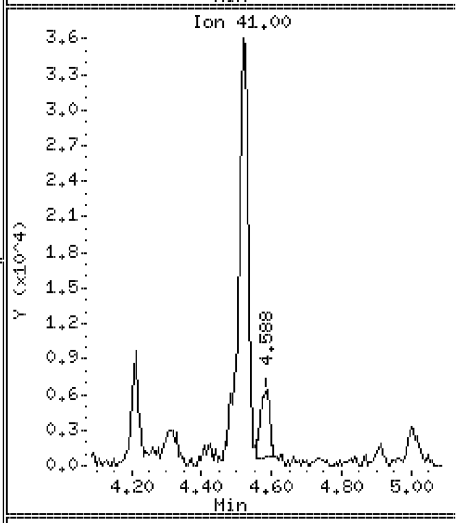


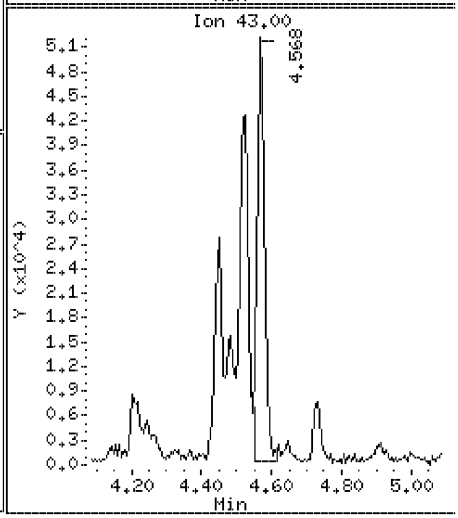












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

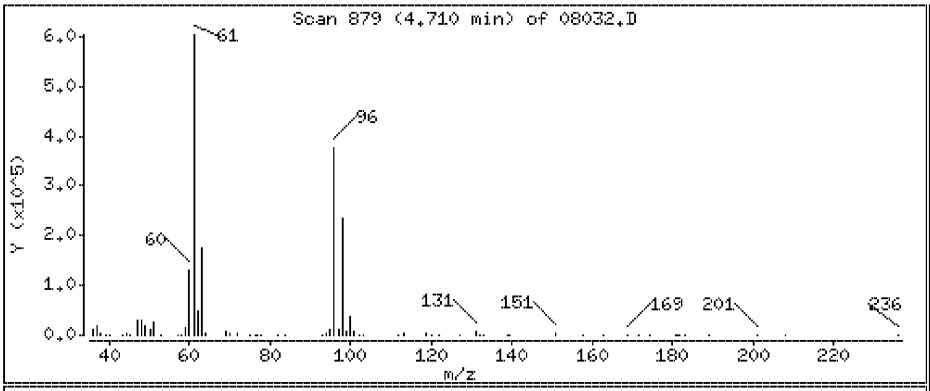
Operator: NCK

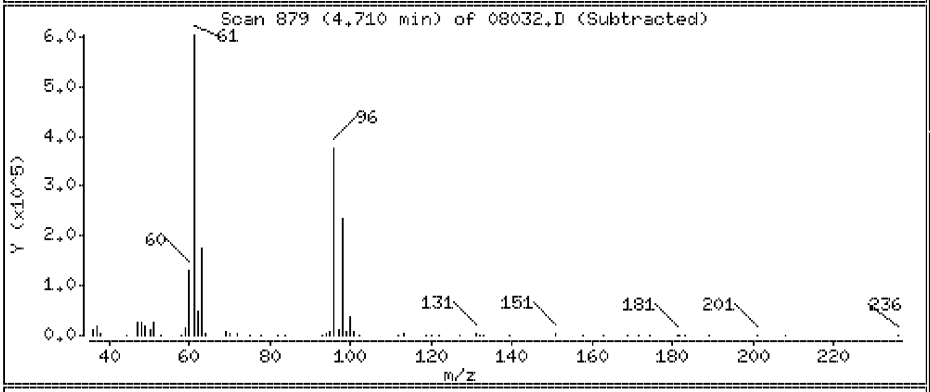
Column phase: J&W DB-5

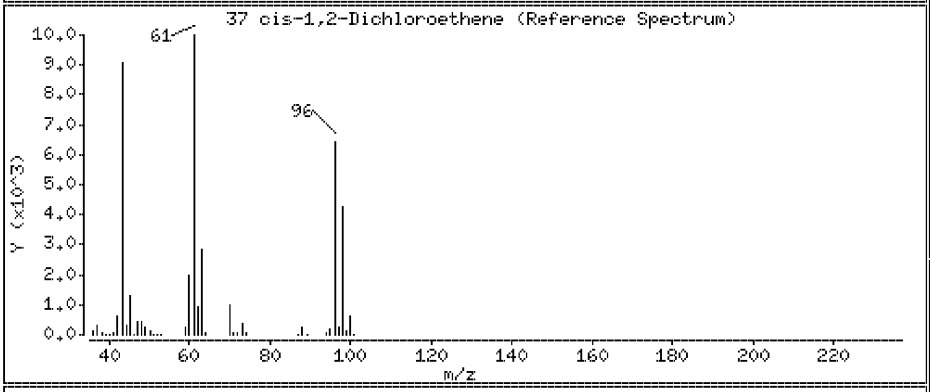
Column diameter: 0.32

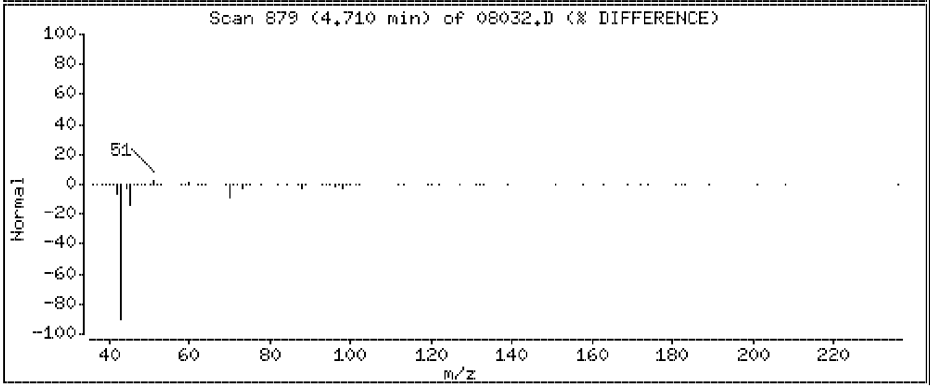
37 cis-1,2-Dichloroethene

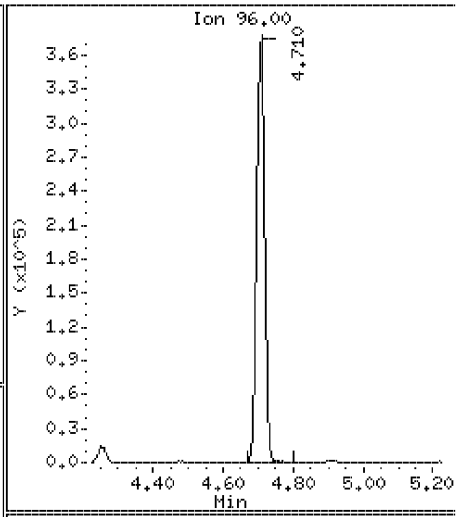
Concentration: 17.9 ppbv

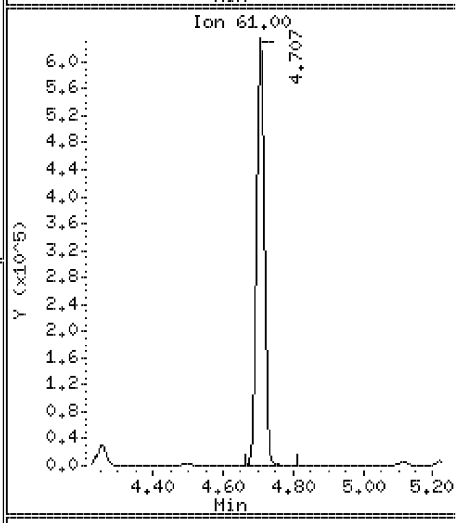


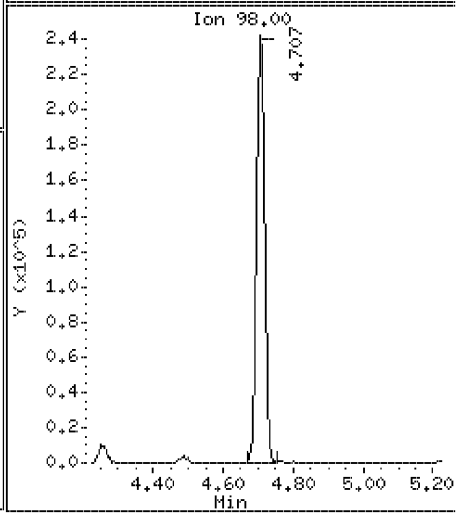












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

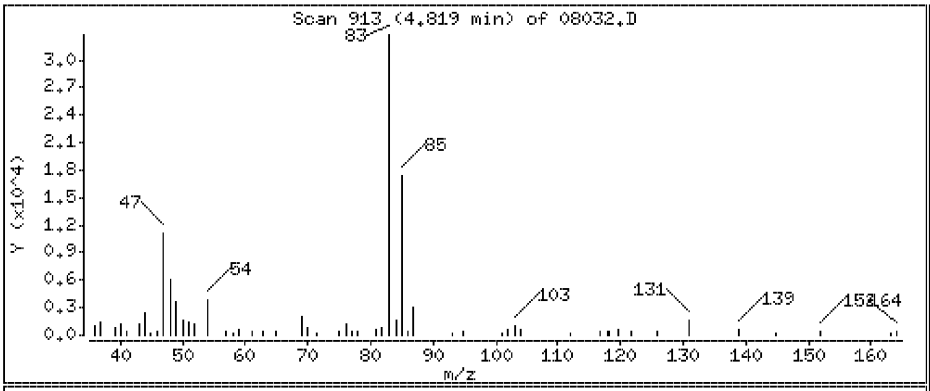
Operator: NCK

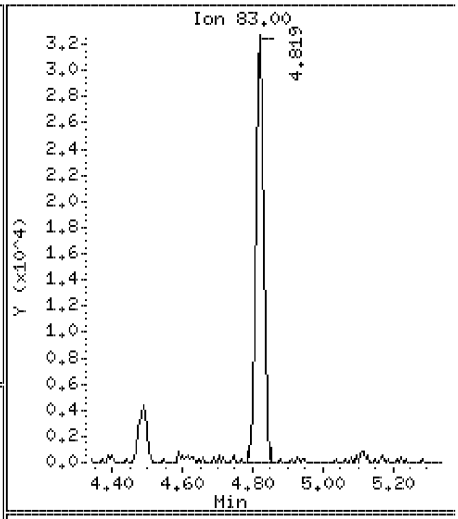
Column phase: J&W DB-5

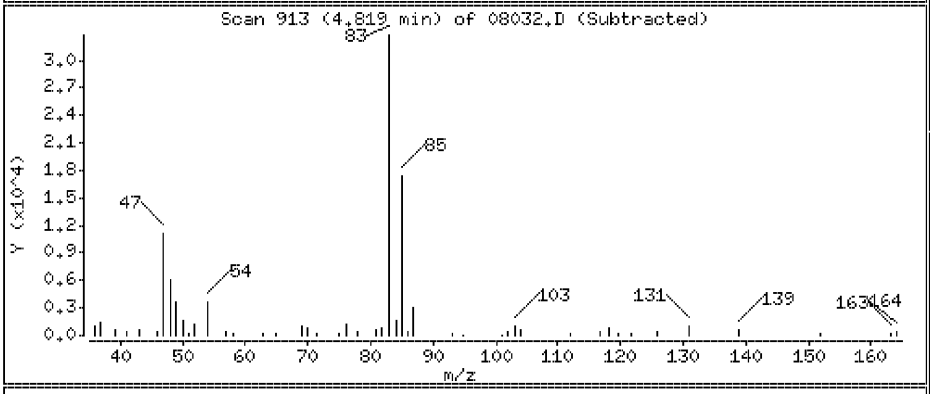
Column diameter: 0.32

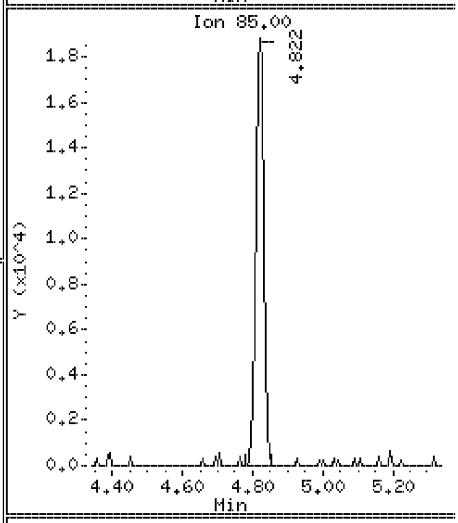
39 Chloroform

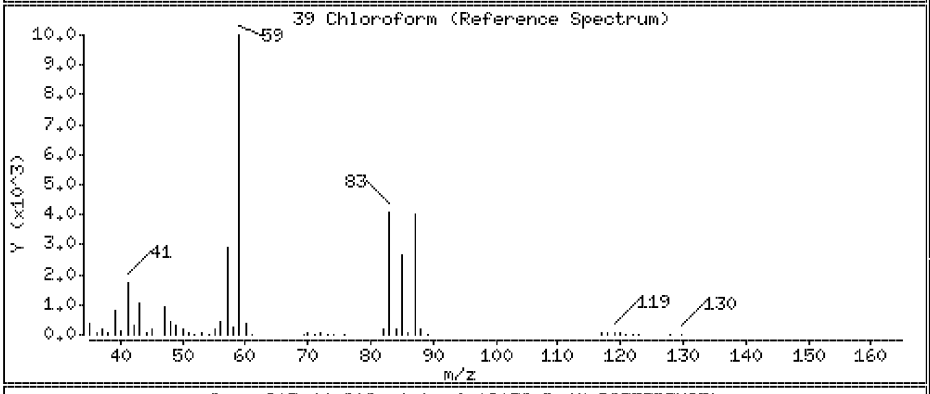
Concentration: 0.702 ppbv

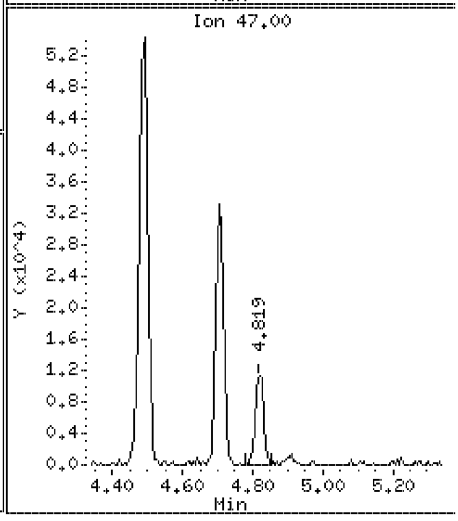


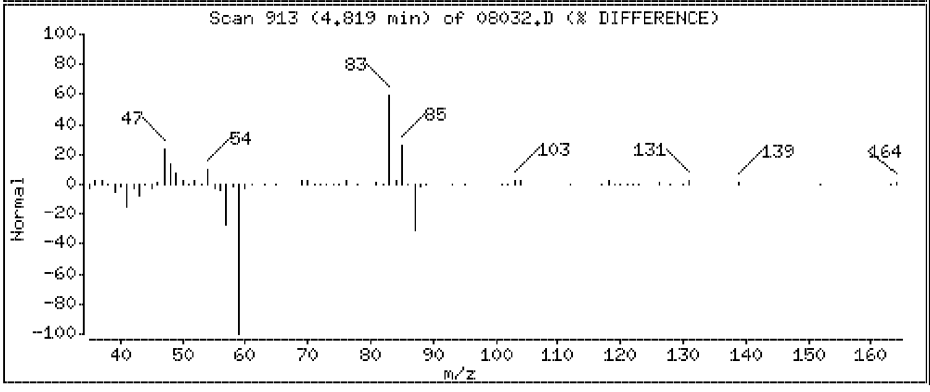












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

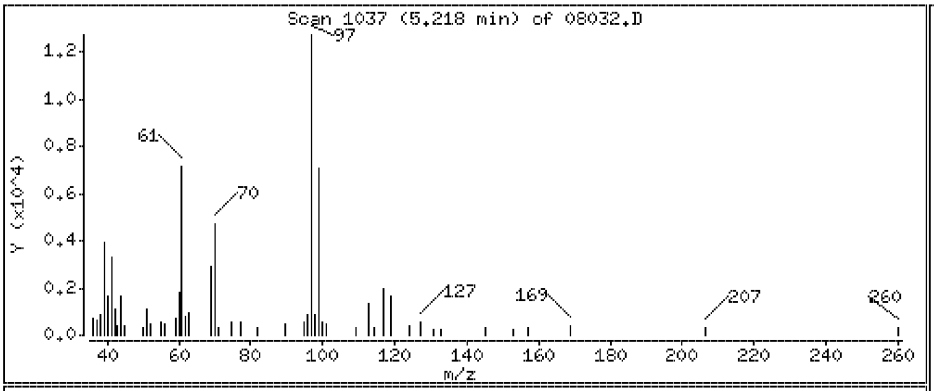
Operator: NCK

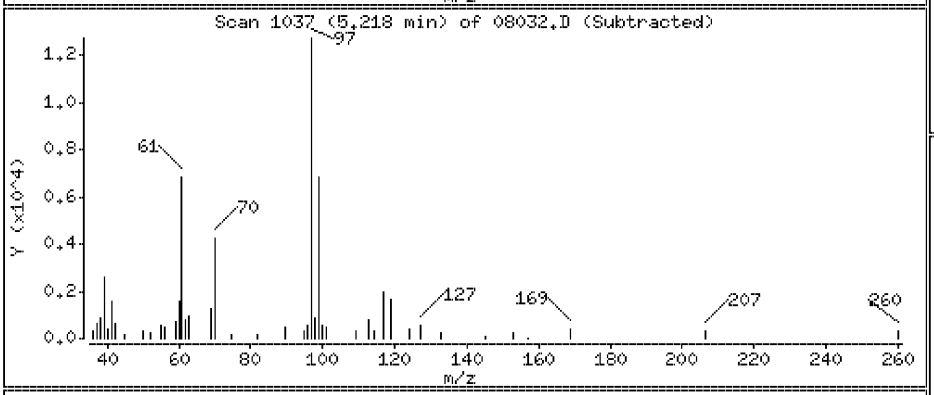
Column phase: J&W DB-5

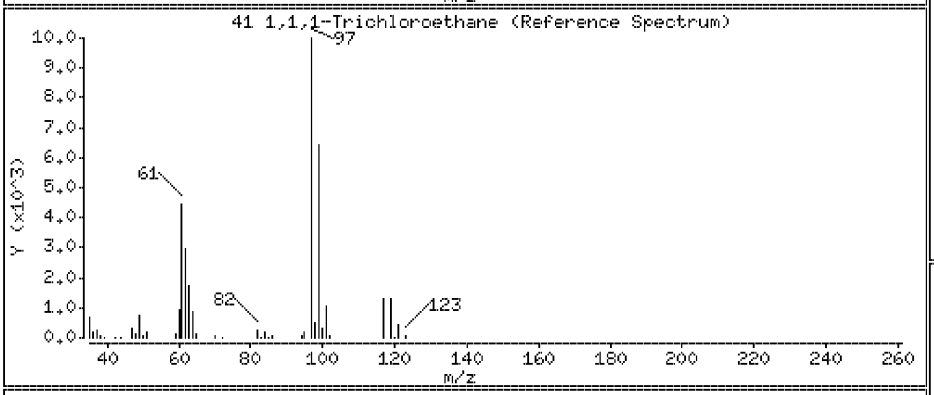
Column diameter: 0.32

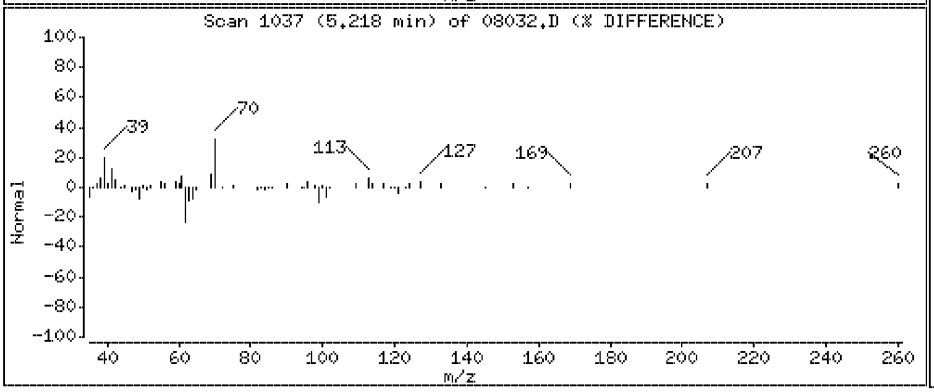
41 1,1,1-Trichloroethane

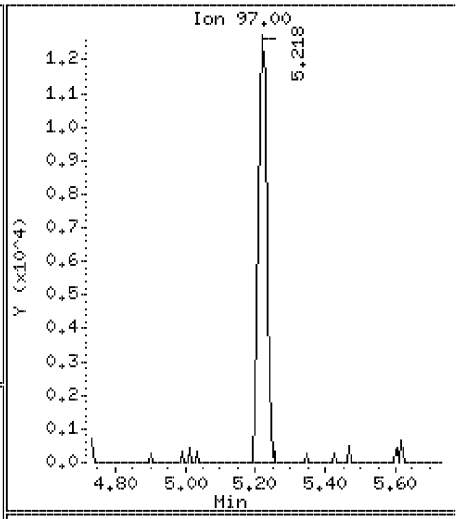
Concentration: 0.263 ppbv

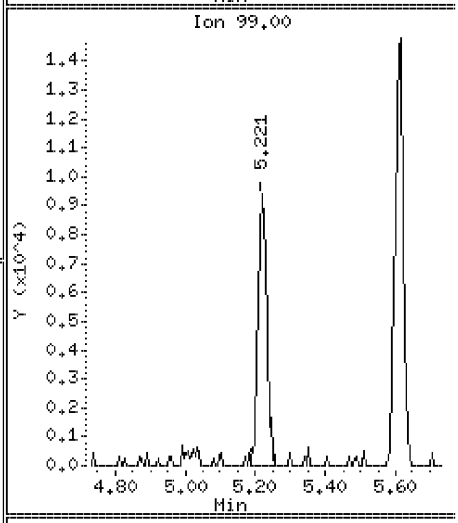


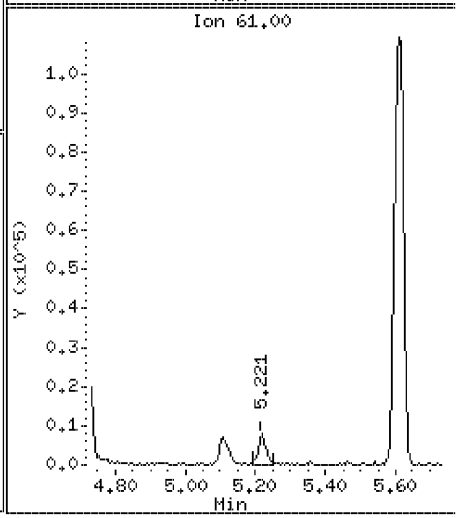












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

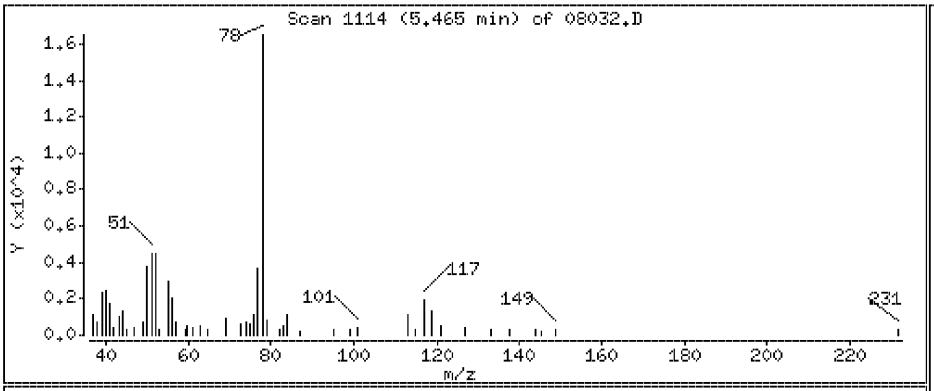
Operator: NCK

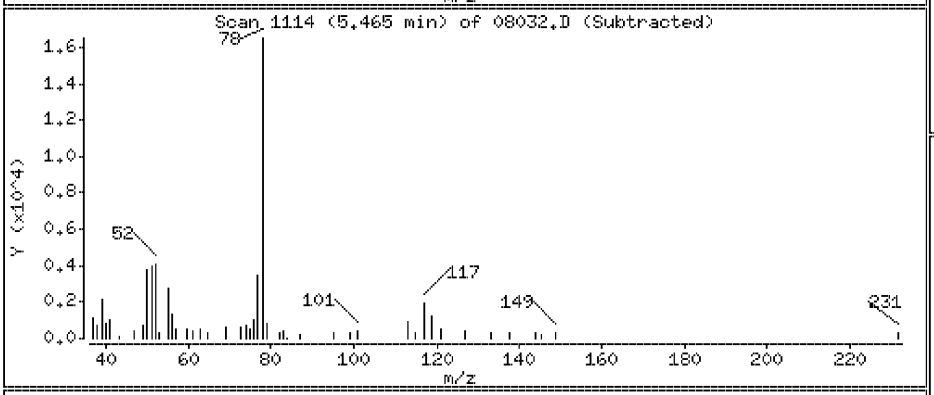
Column phase: J&W DB-5

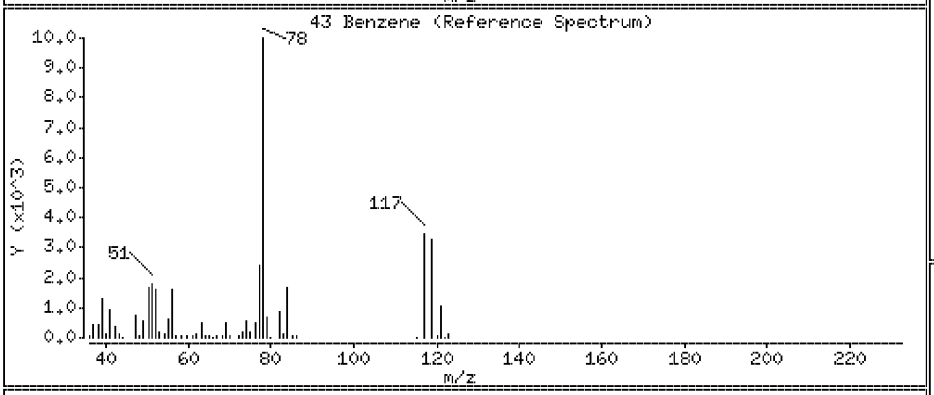
Column diameter: 0.32

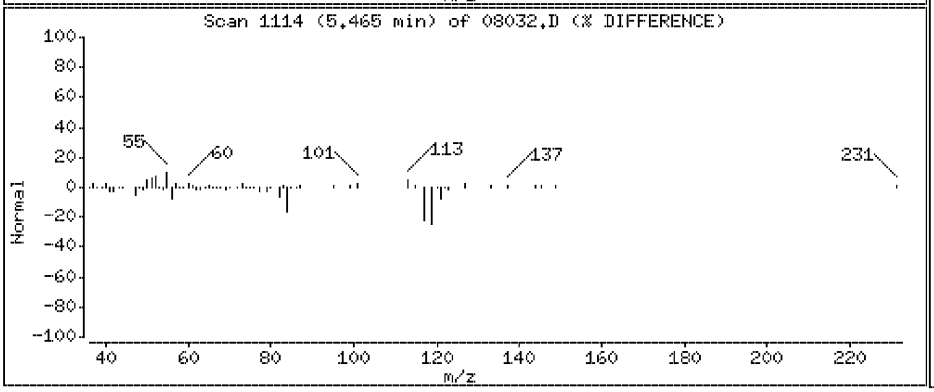
43 Benzene

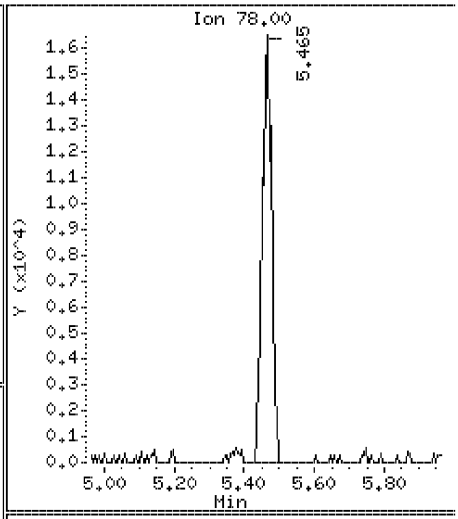
Concentration: 0.280 ppbv

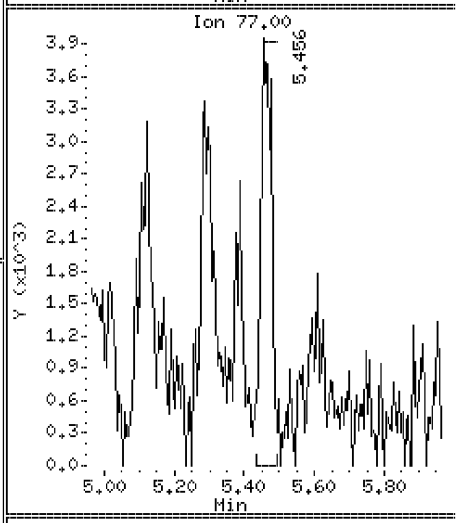


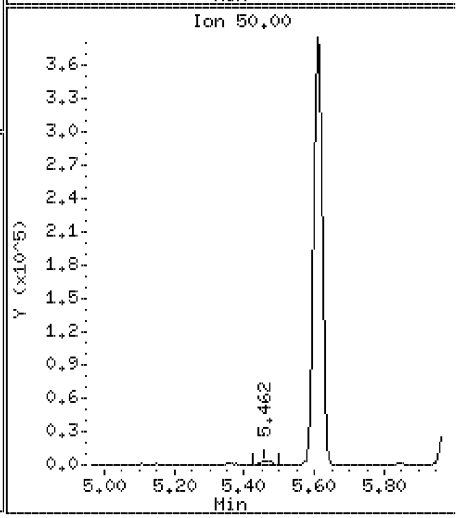












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

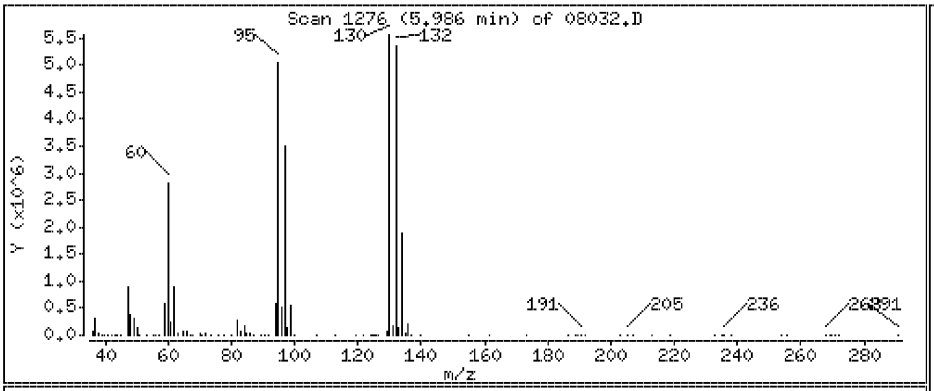
Operator: NCK

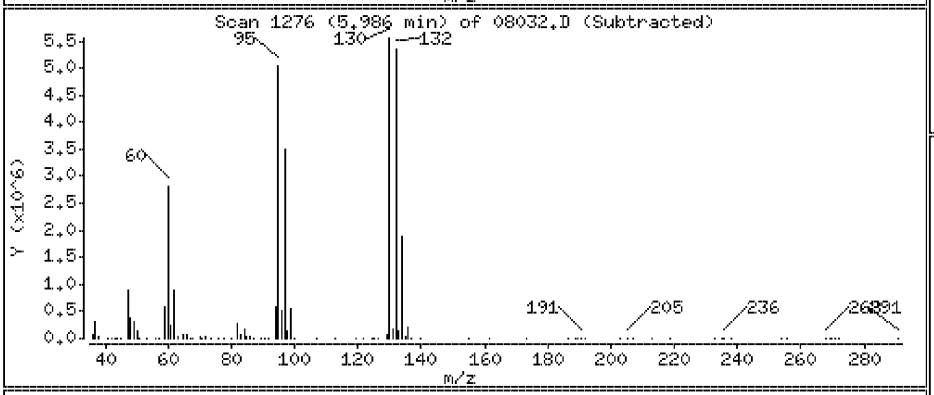
Column phase: J&W DB-5

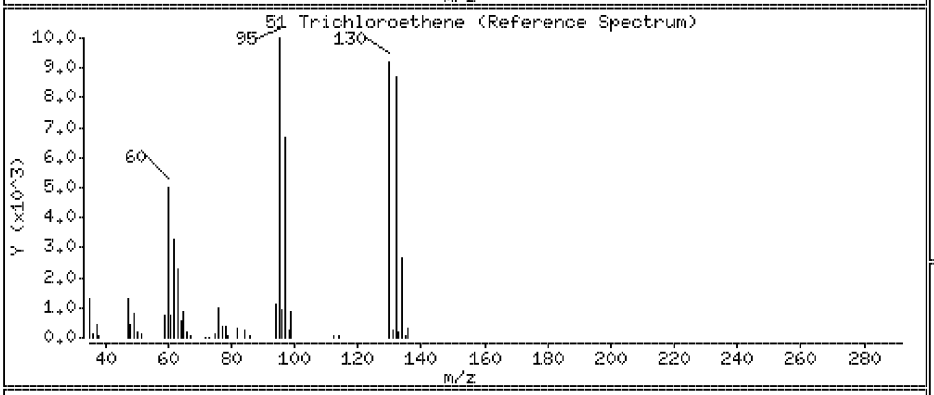
Column diameter: 0.32

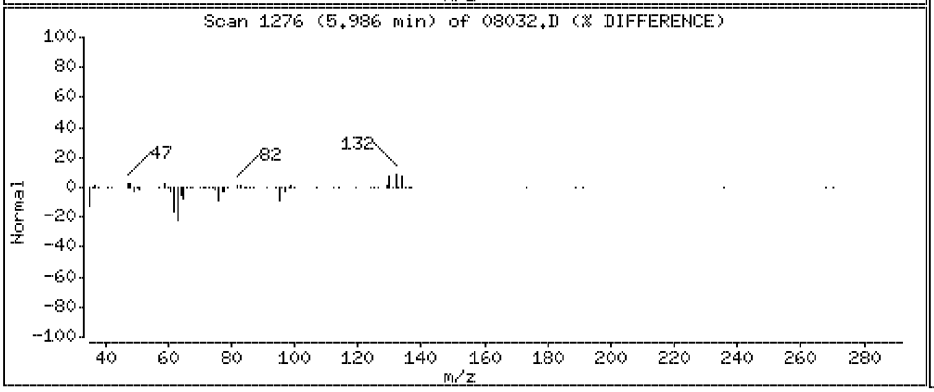
51 Trichloroethene

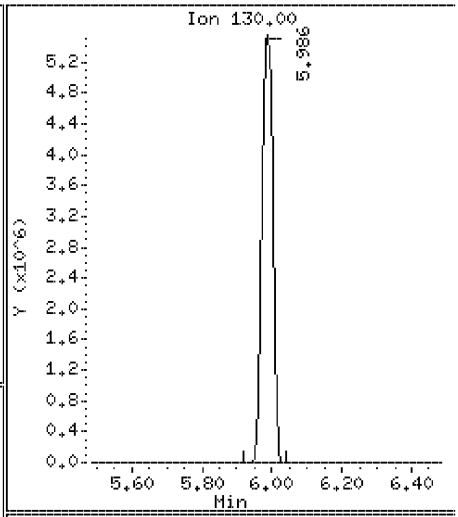
Concentration: 243 ppbv

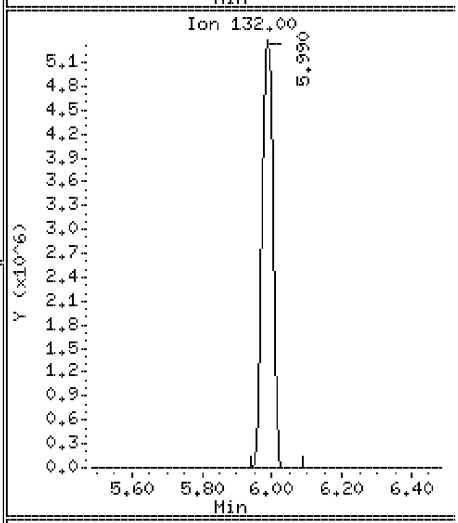


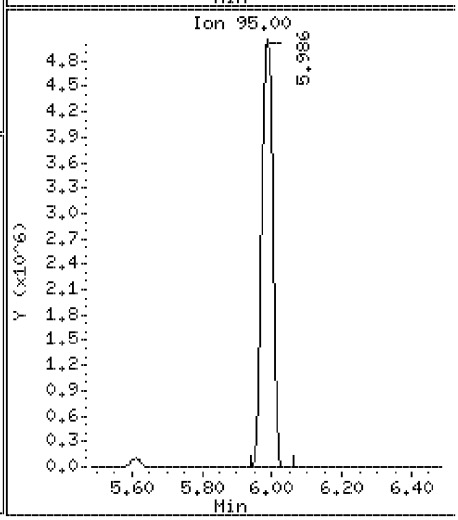












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

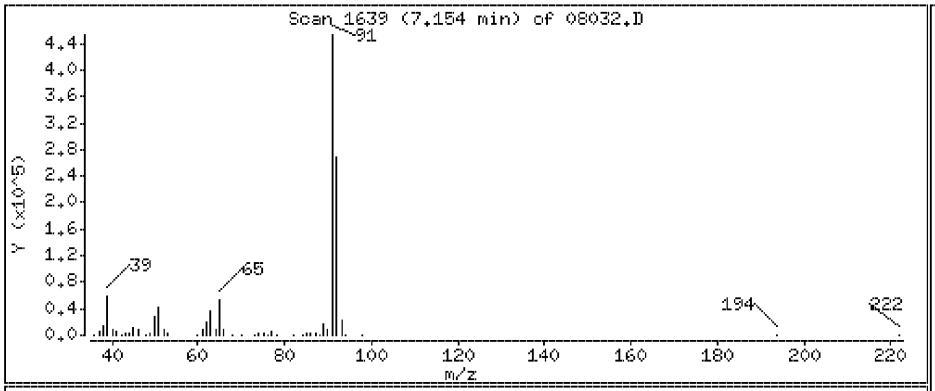
Operator: NCK

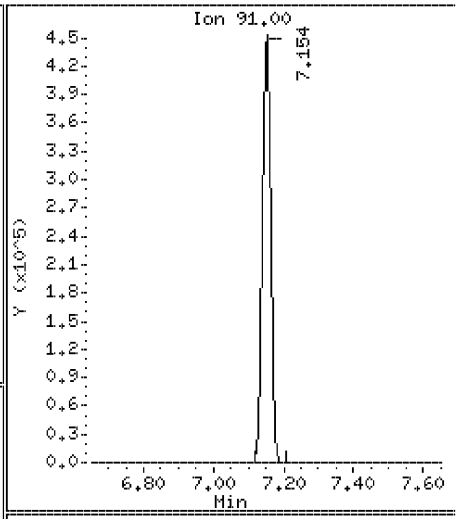
Column phase: J&W DB-5

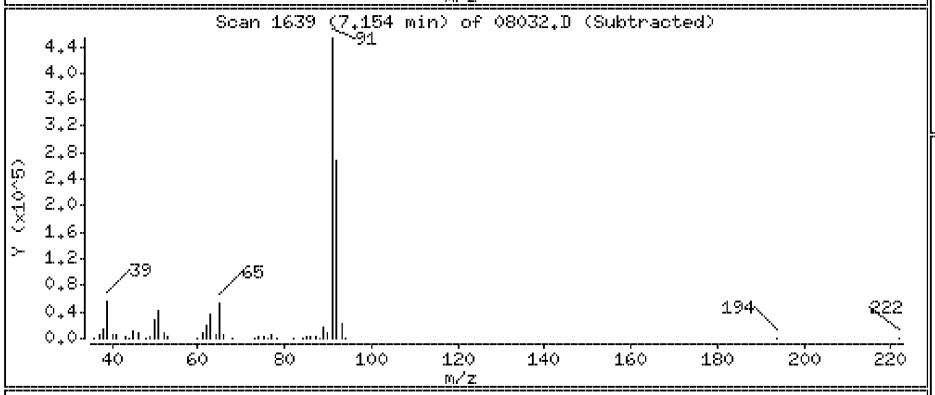
Column diameter: 0.32

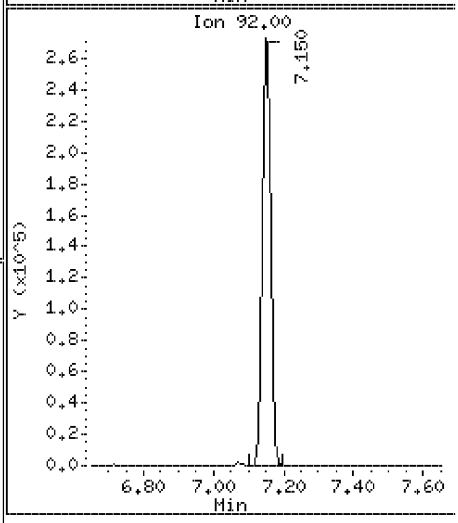
61 Toluene

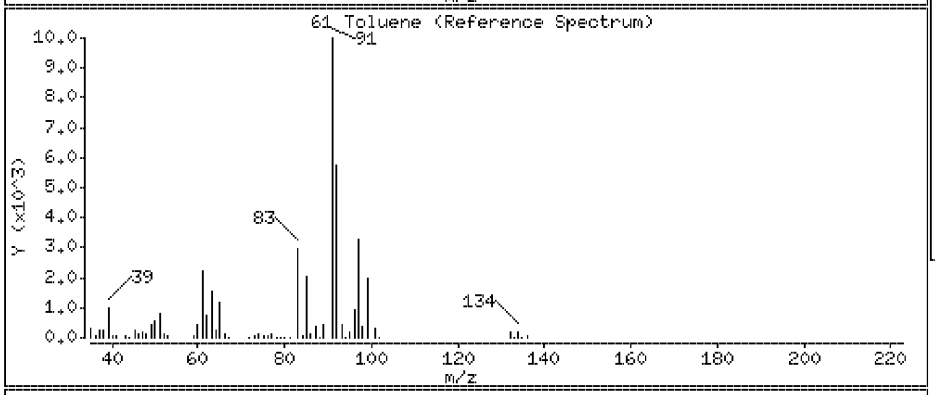
Concentration: 5.88 ppbv

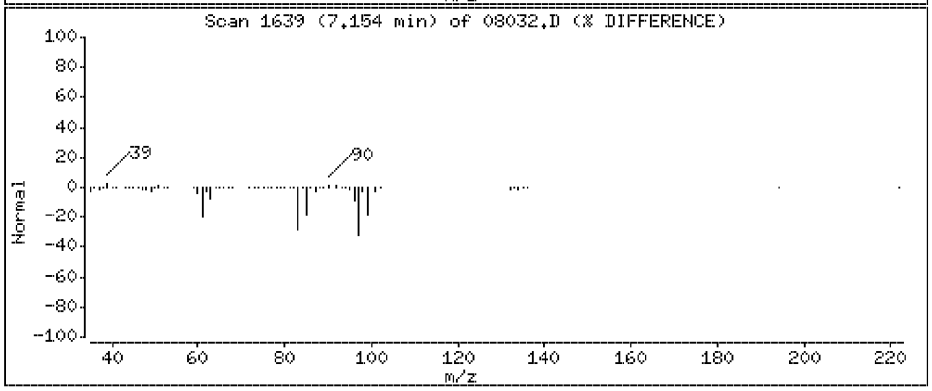












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

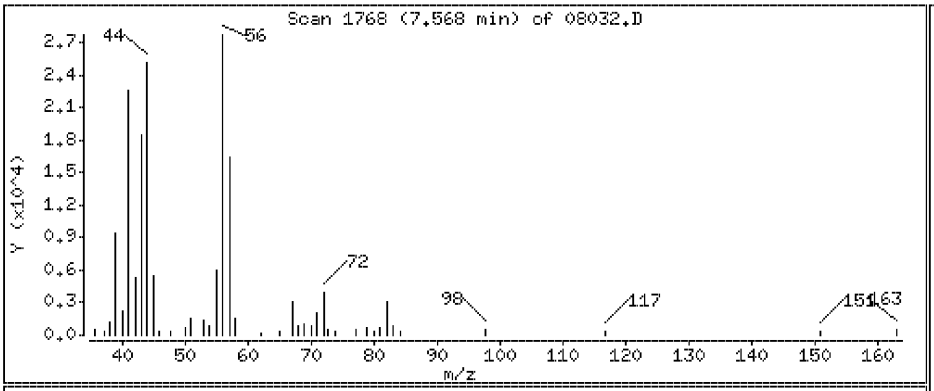
Operator: NCK

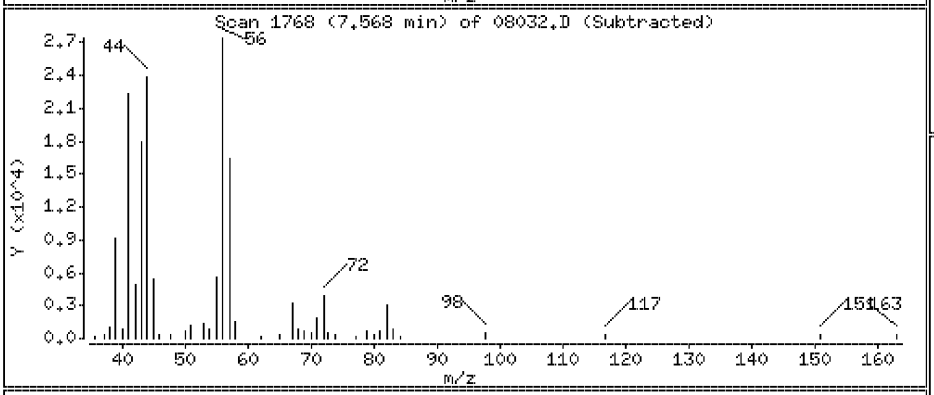
Column phase: J&W DB-5

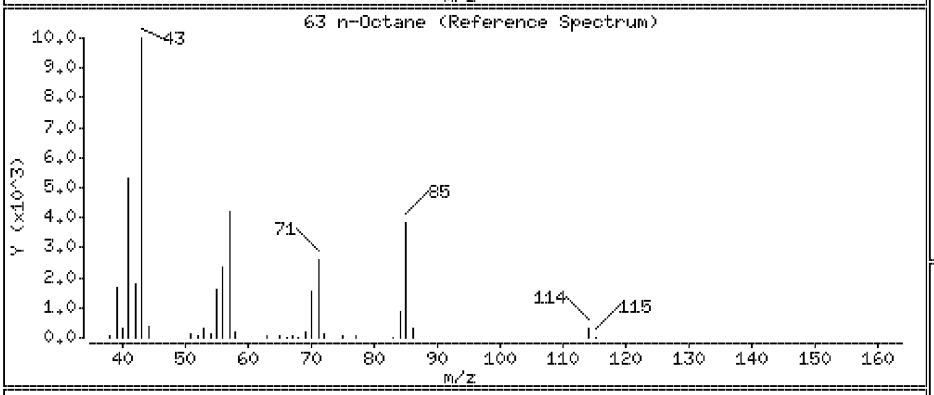
Column diameter: 0.32

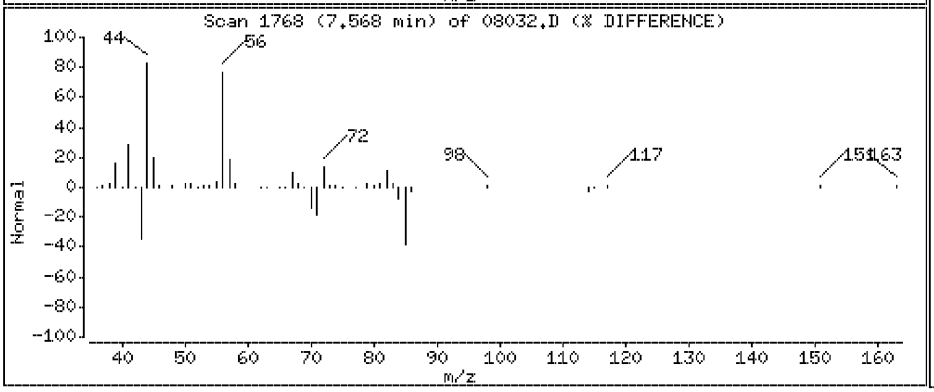
63 n-Octane

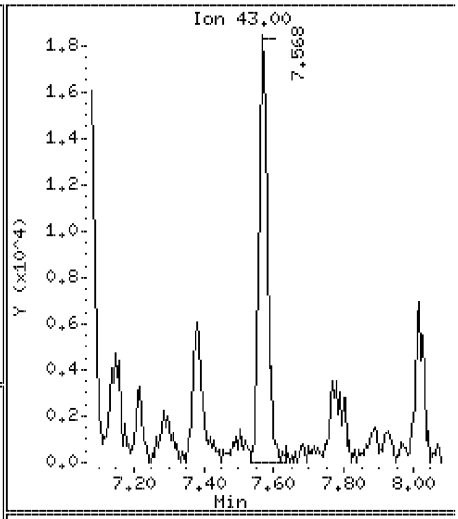
Concentration: 0.359 ppbv

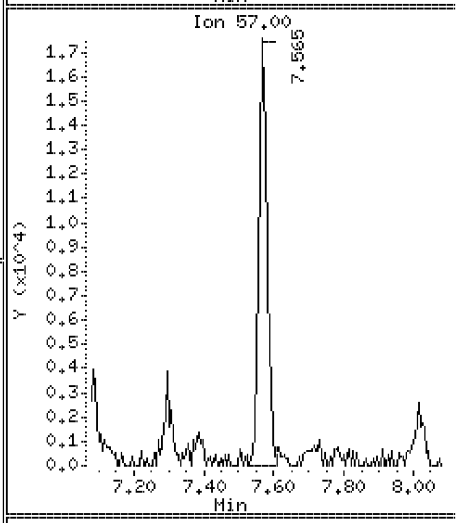


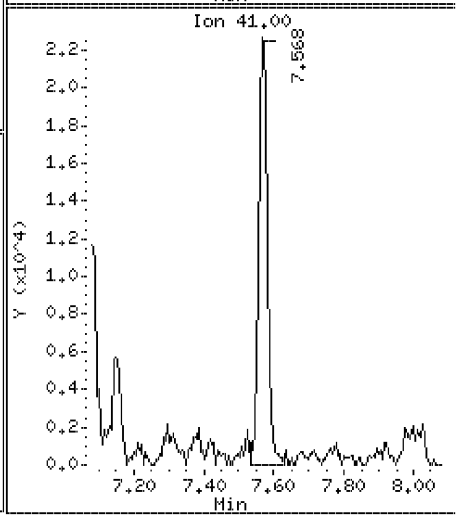












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

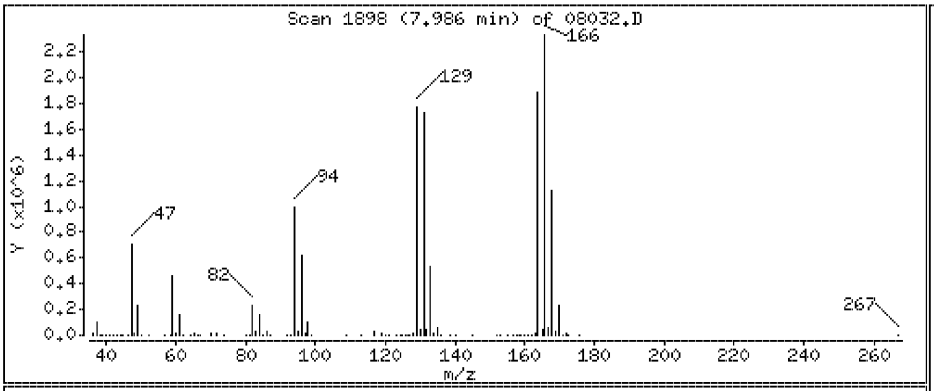
Operator: NCK

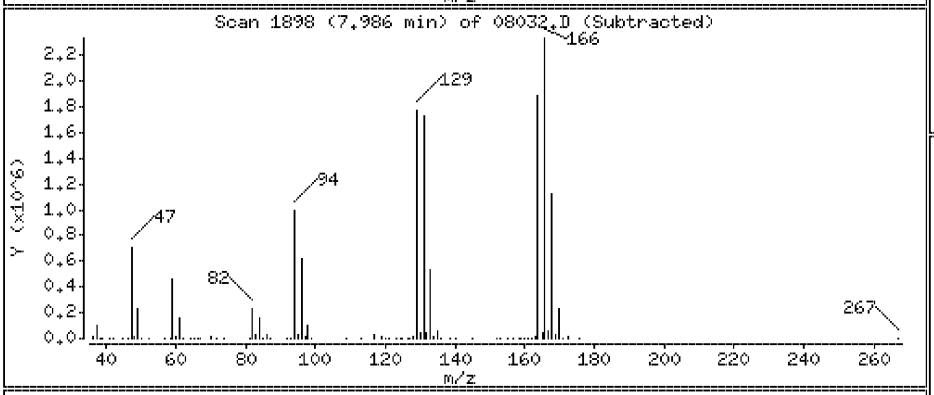
Column phase: J&W DB-5

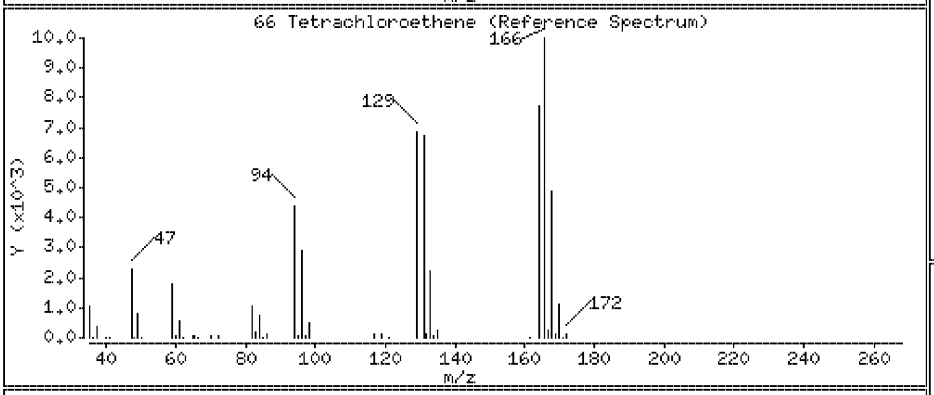
Column diameter: 0.32

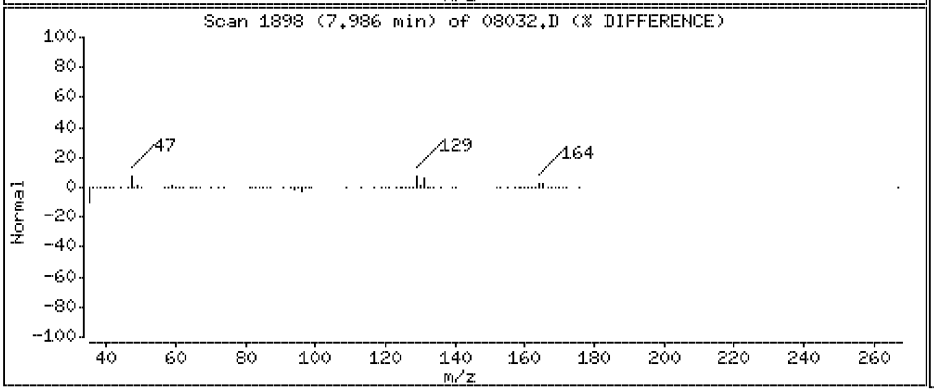
66 Tetrachloroethene

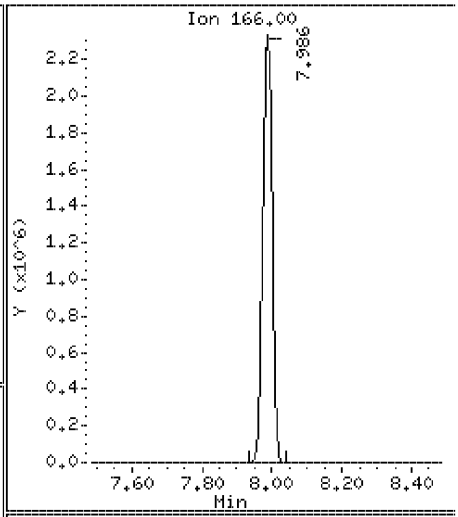
Concentration: 80.1 ppbv

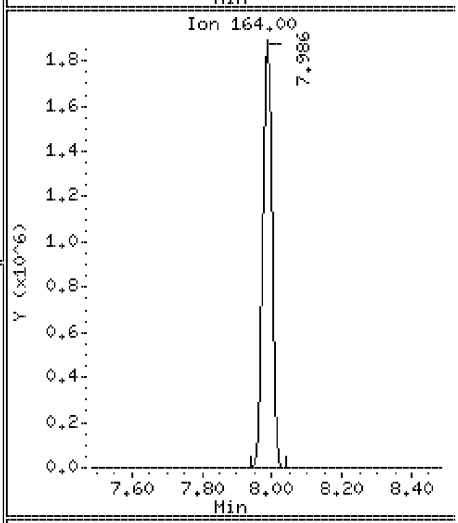


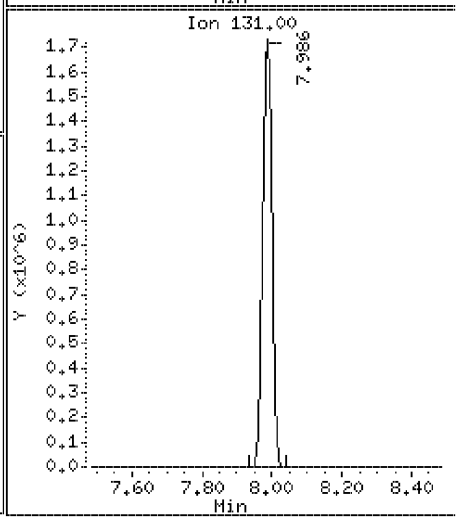












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

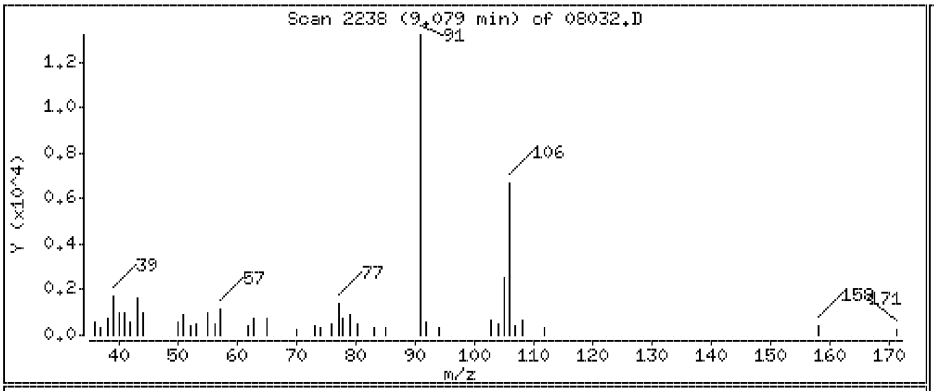
Operator: NCK

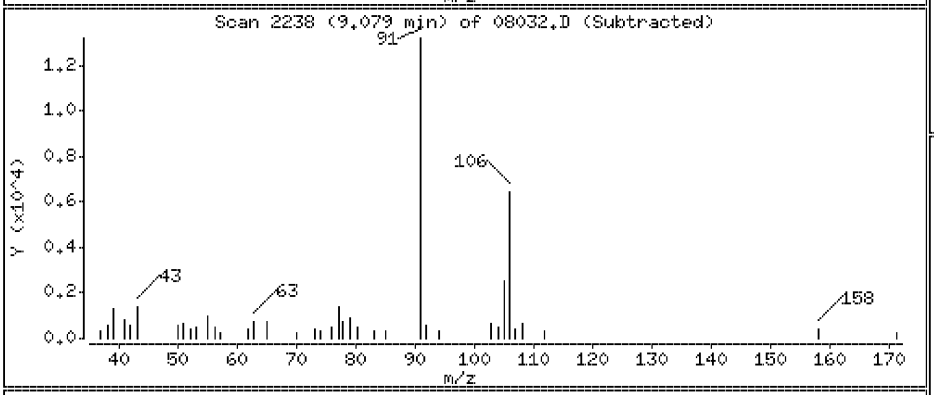
Column phase: J&W DB-5

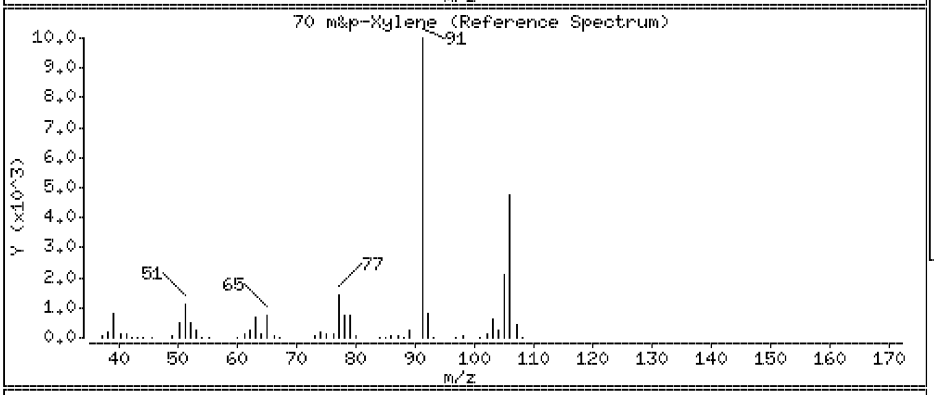
Column diameter: 0.32

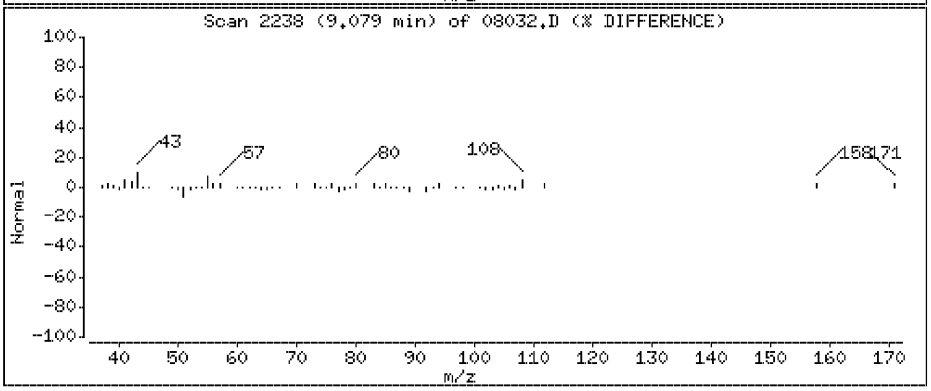
70 m&p-Xylene

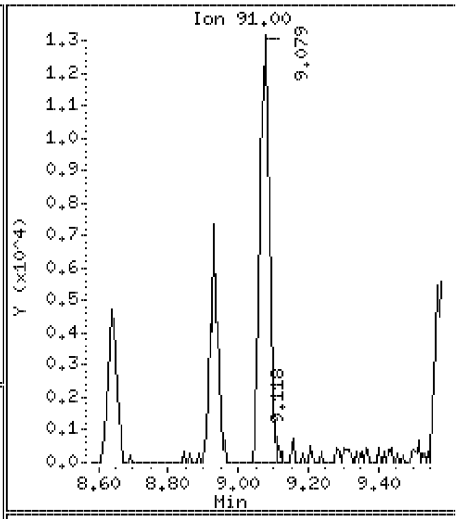
Concentration: 0.485 ppbv

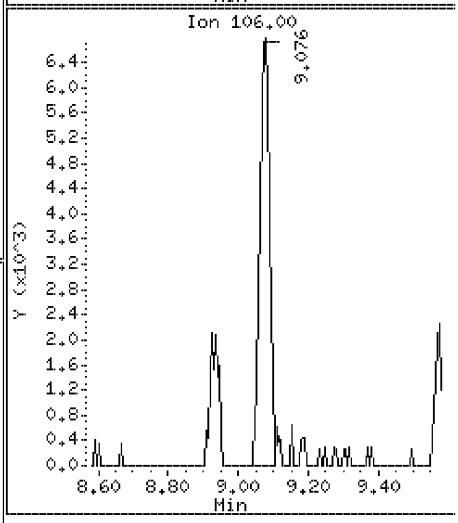












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

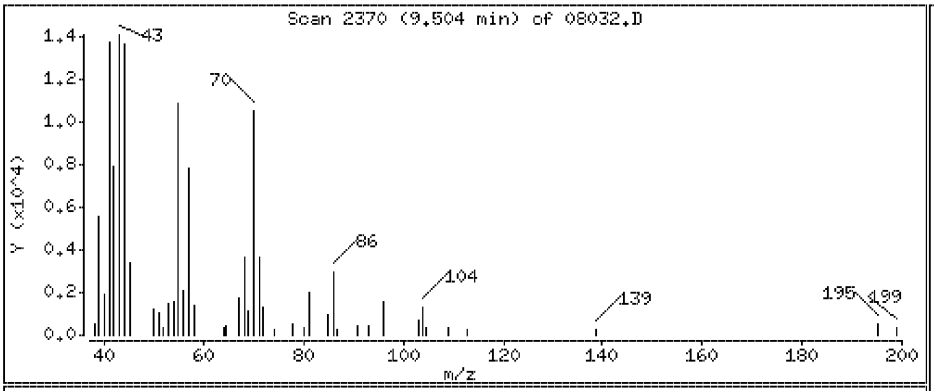
Operator: NCK

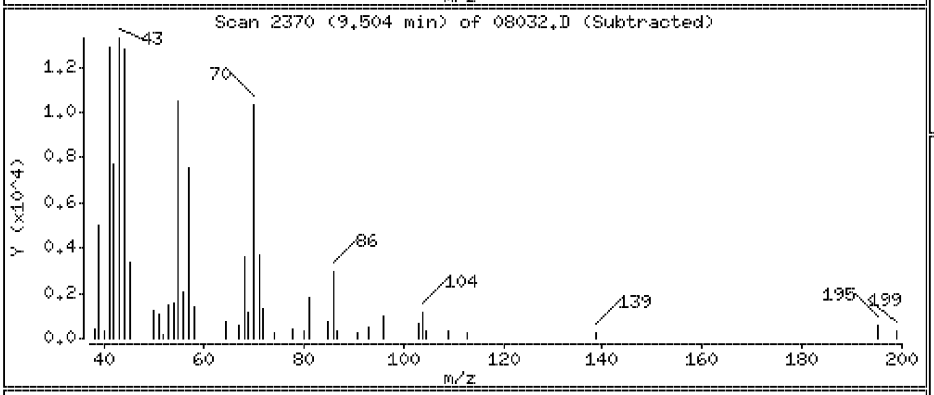
Column phase: J&W DB-5

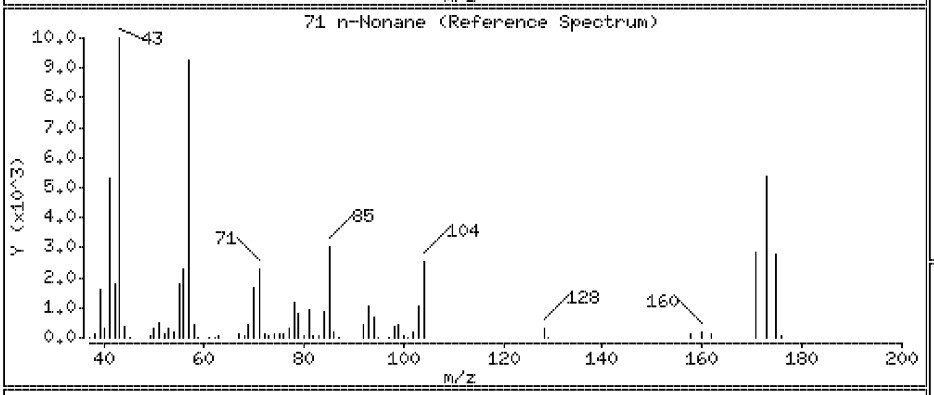
Column diameter: 0.32

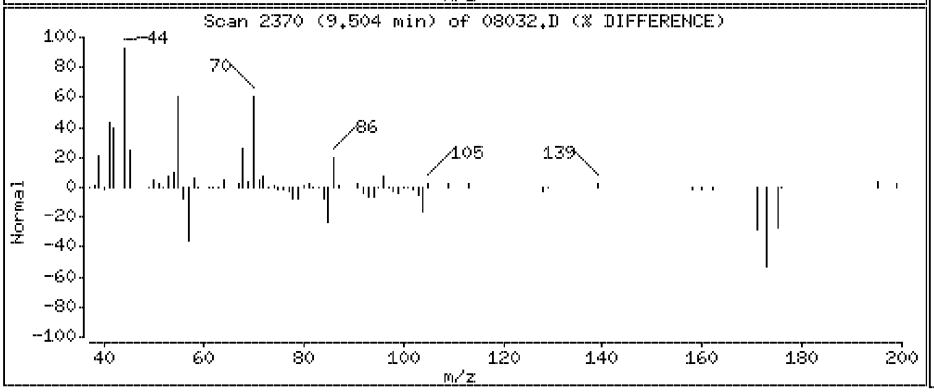
71 n-Nonane

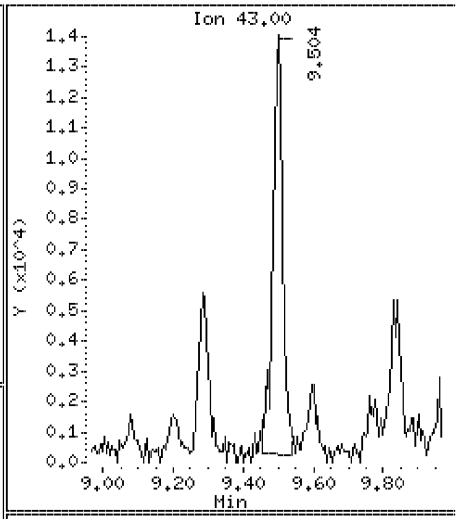
Concentration: 0.357 ppbv

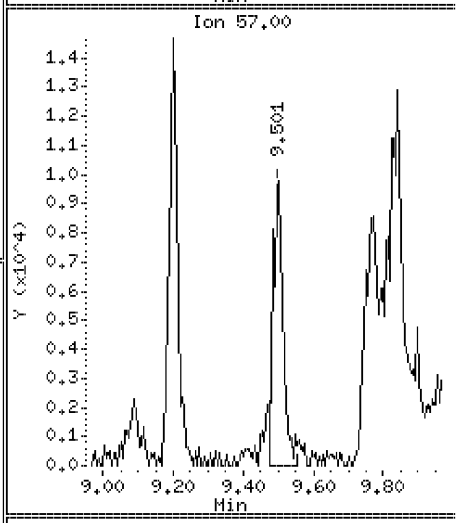


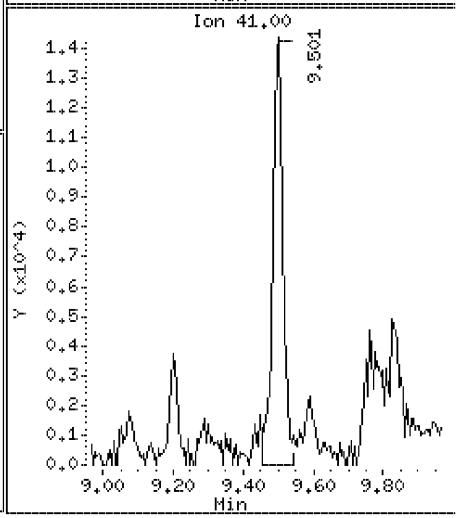












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

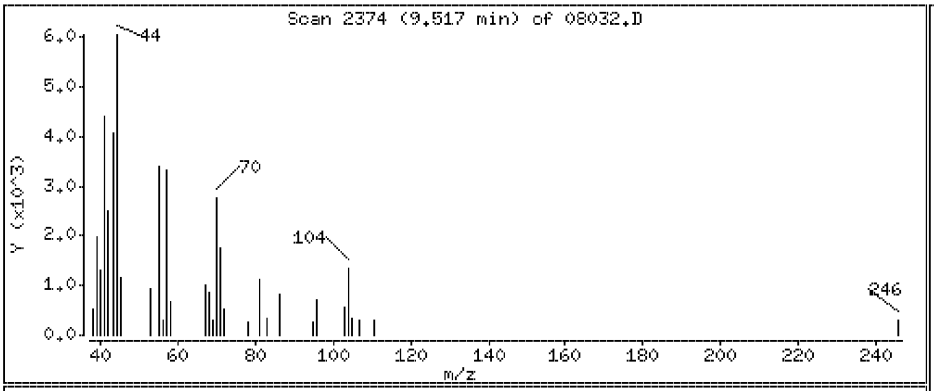
Operator: NCK

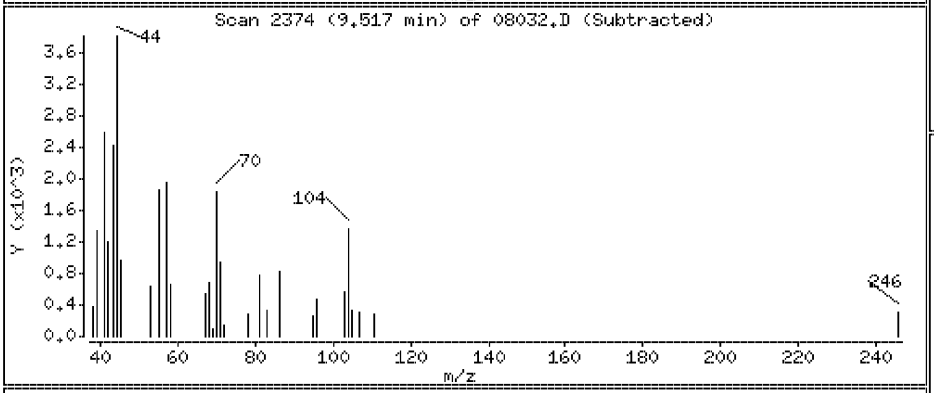
Column phase: J&W DB-5

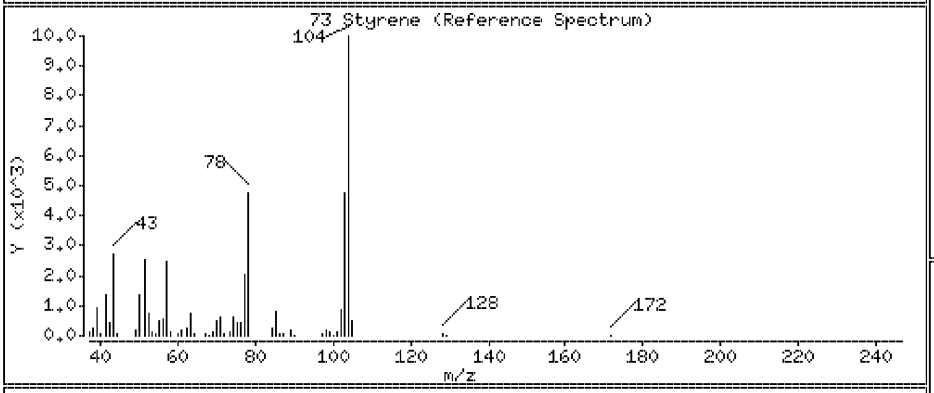
Column diameter: 0.32

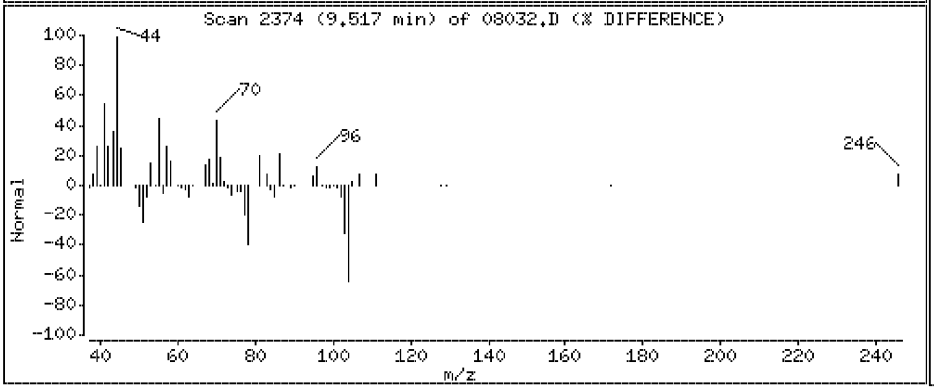
73 Styrene

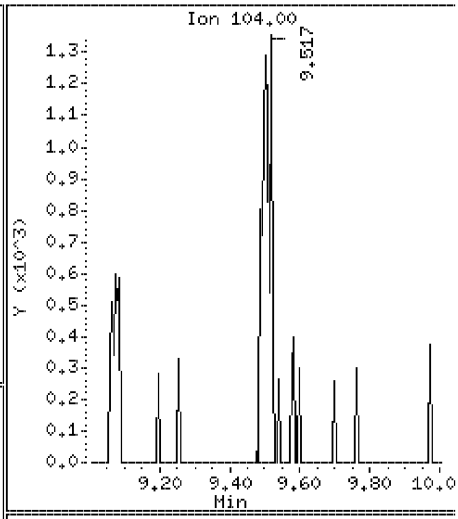
Concentration: 0.251 ppbv

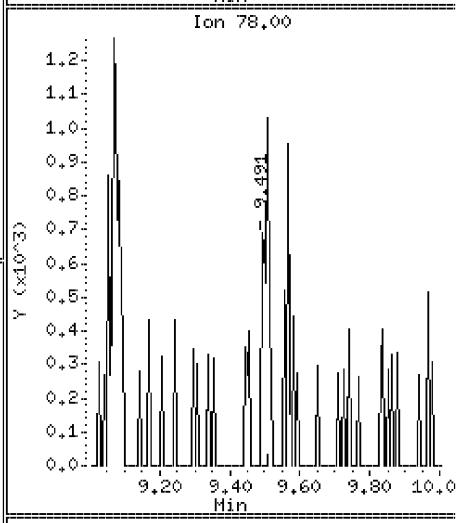


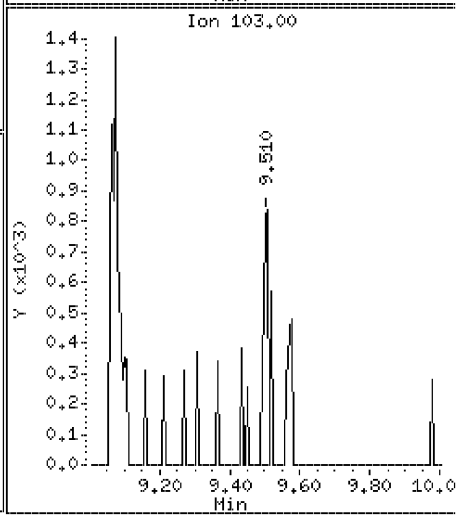












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

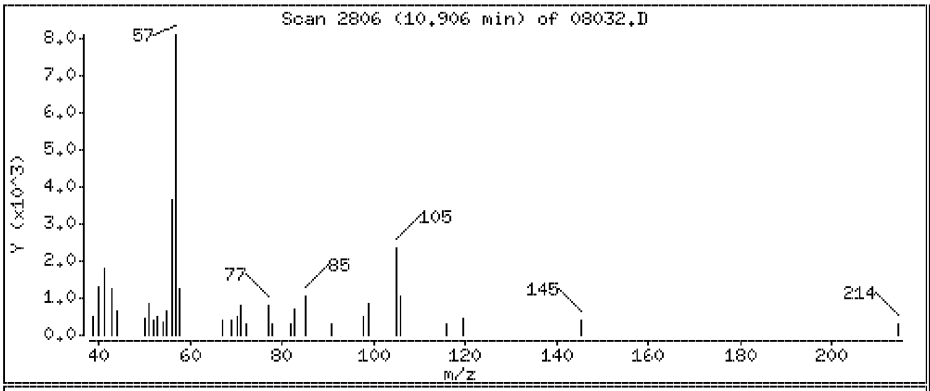
Operator: NCK

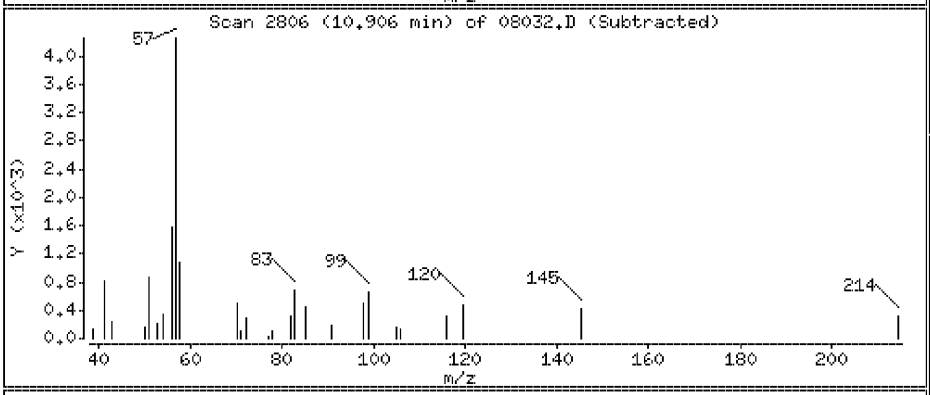
Column phase: J&W DB-5

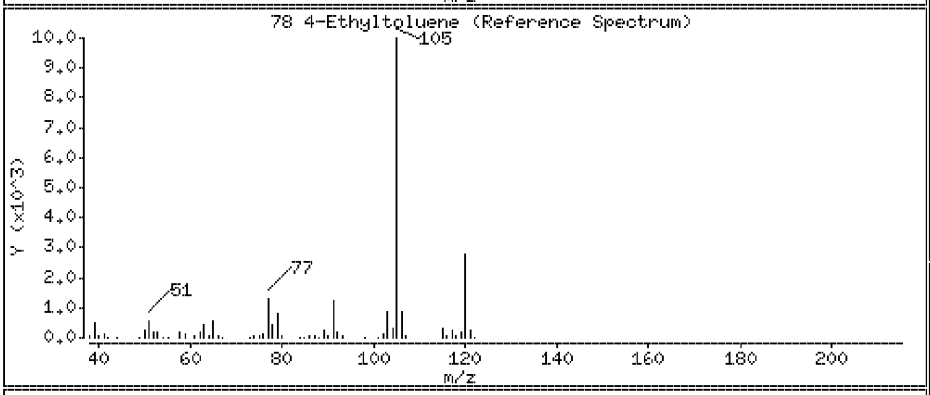
Column diameter: 0.32

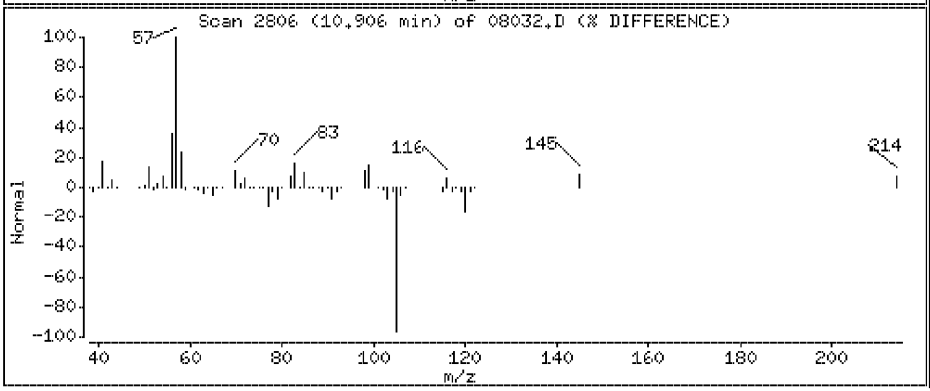
78 4-Ethyltoluene

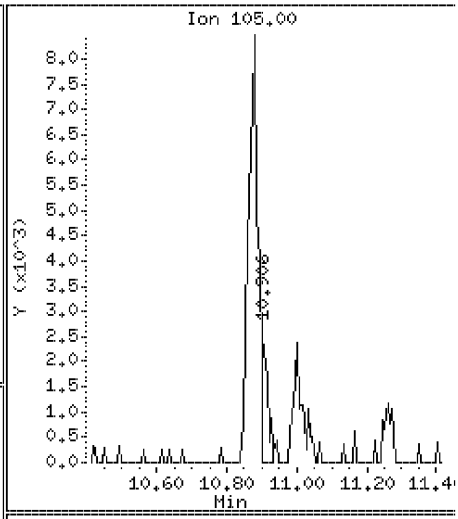
Concentration: 0.296 ppbv

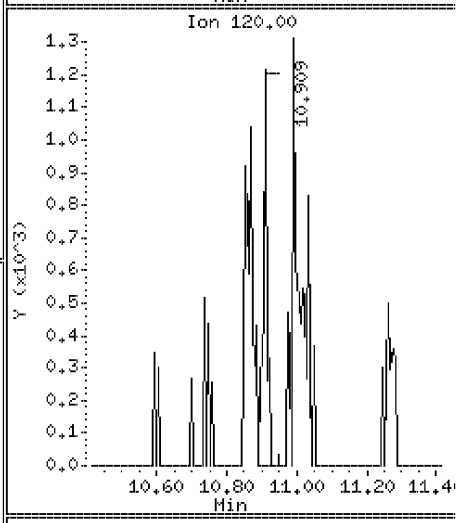


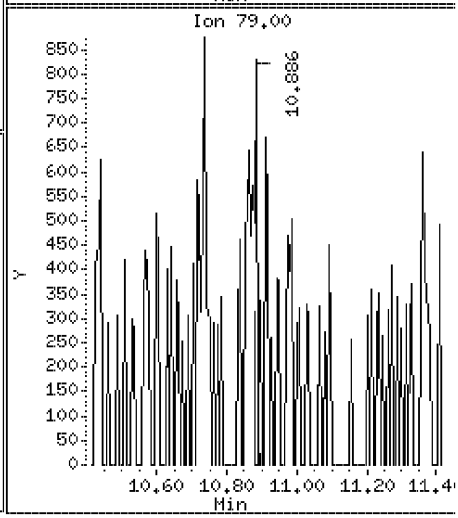












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

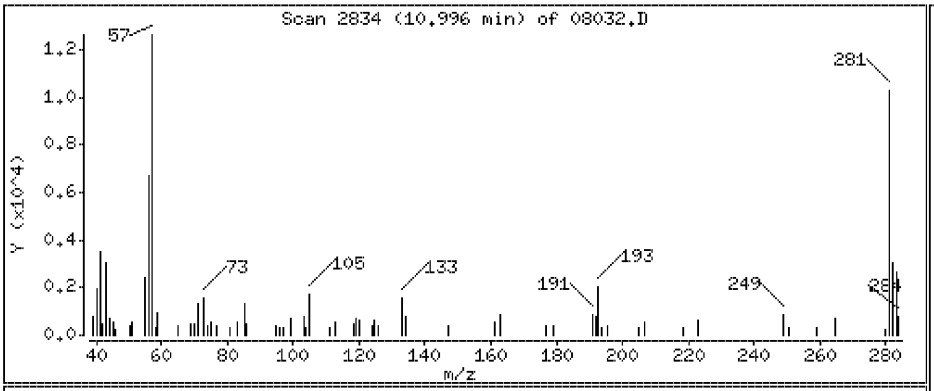
Operator: NCK

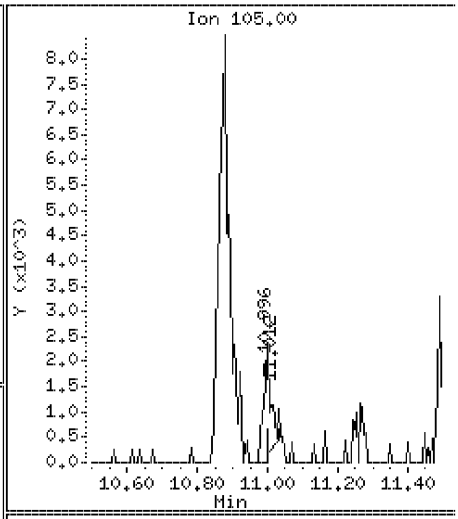
Column phase: J&W DB-5

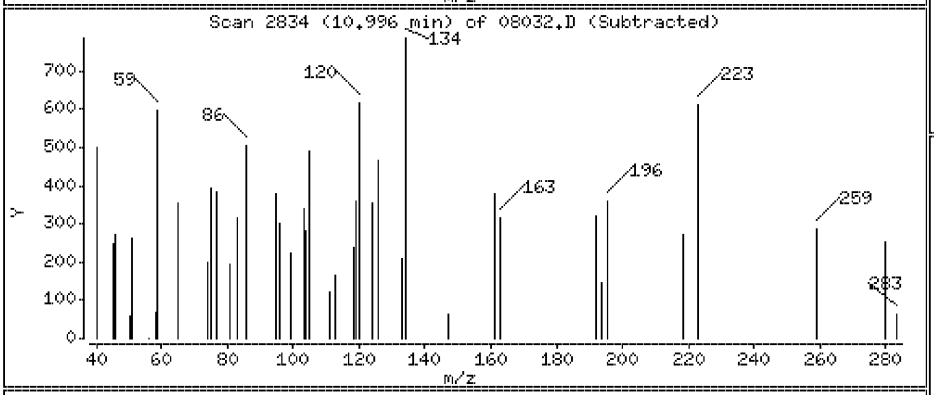
Column diameter: 0.32

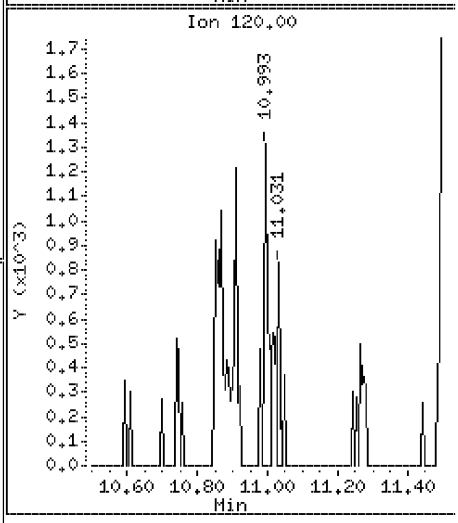
79 1,3,5-Trimethylbenzene

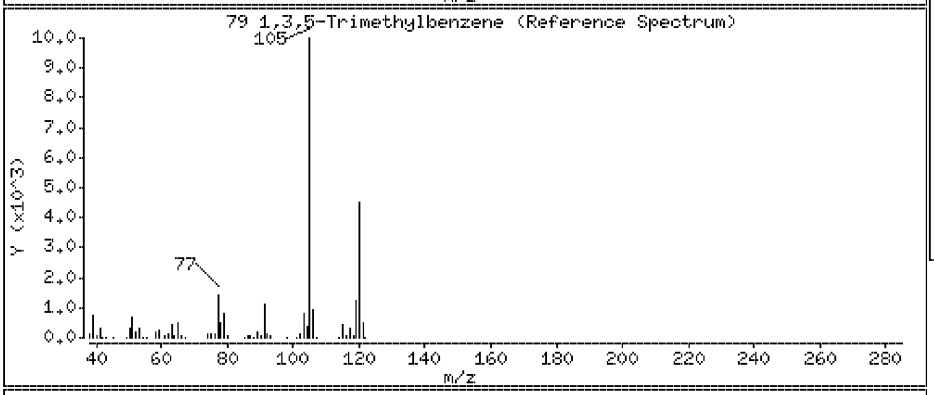
Concentration: 0.255 ppbv

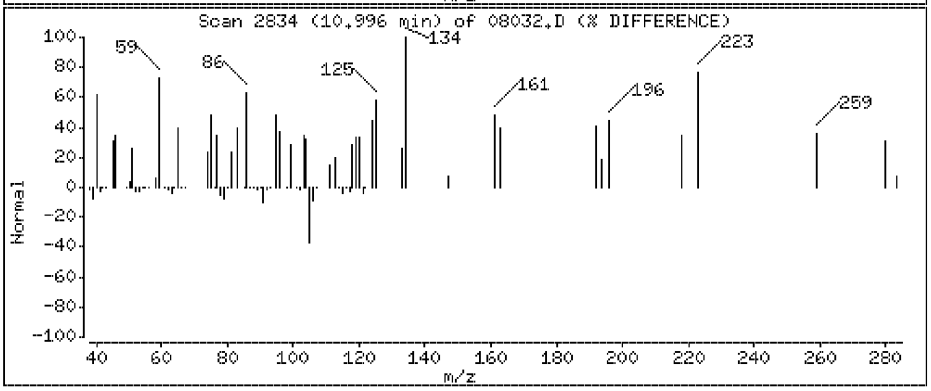












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

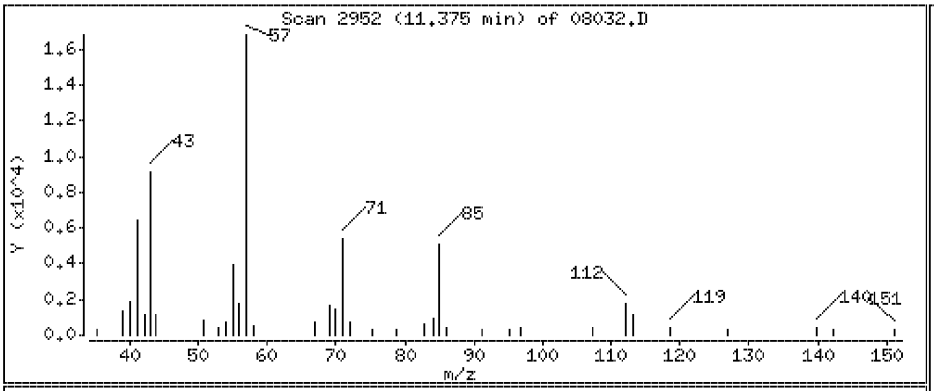
Operator: NCK

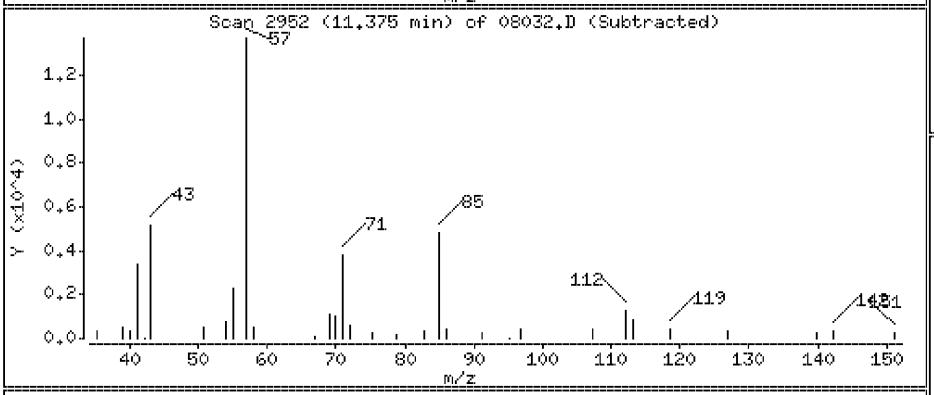
Column phase: J&W DB-5

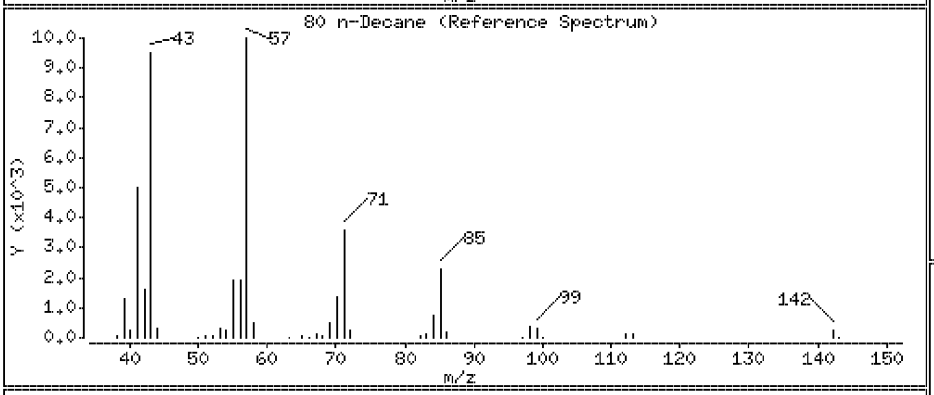
Column diameter: 0.32

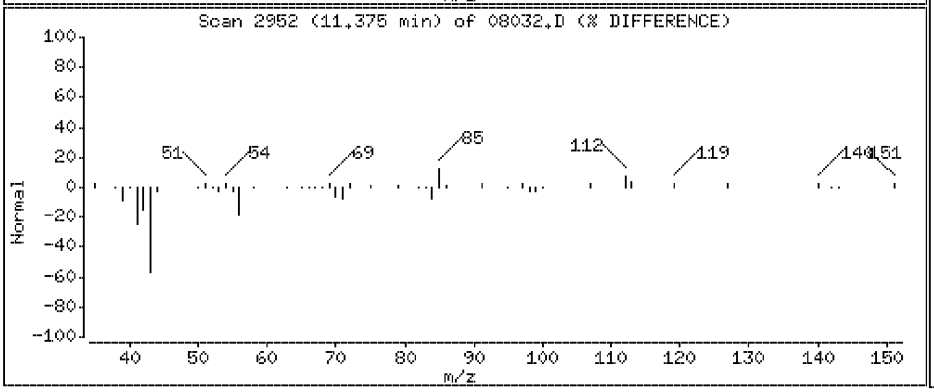
80 n-Decane

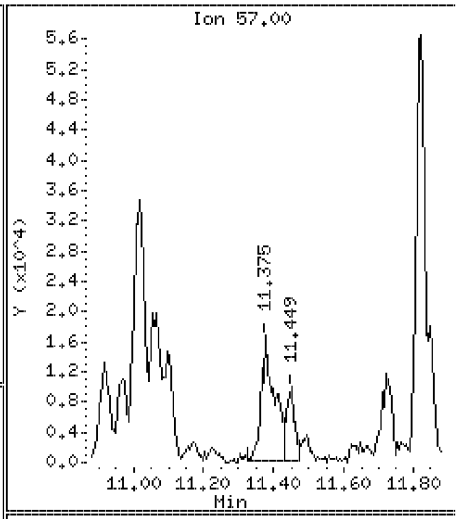
Concentration: 0.571 ppbv

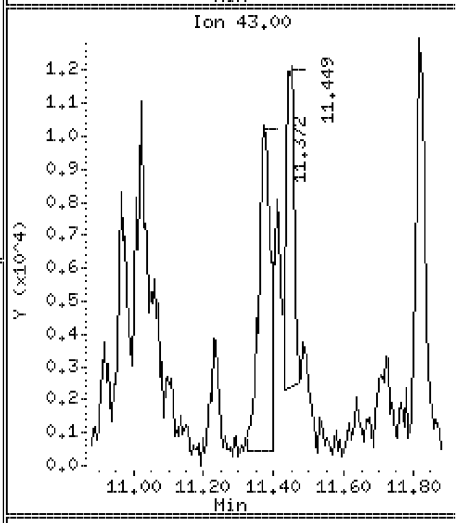


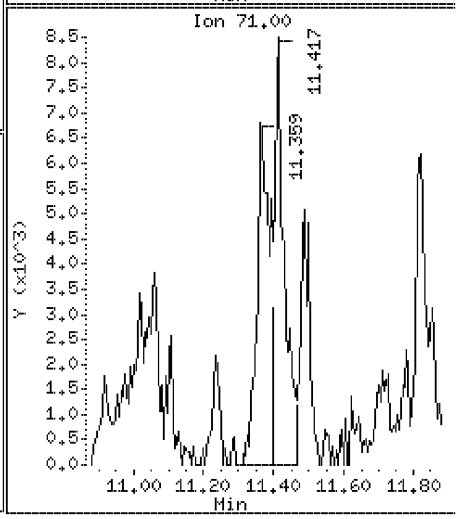












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

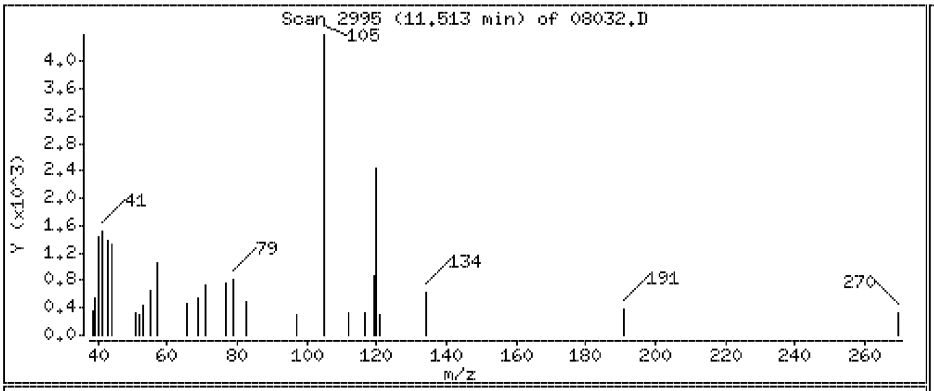
Operator: NCK

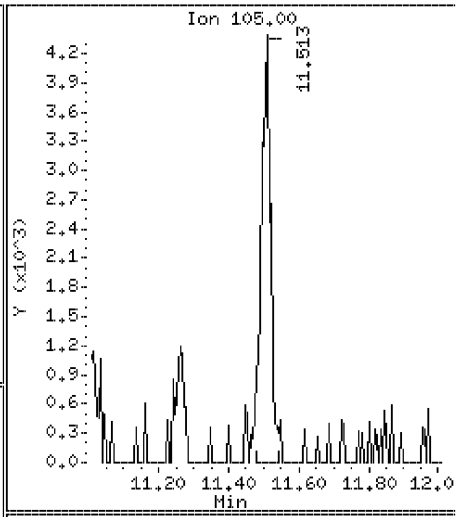
Column phase: J&W DB-5

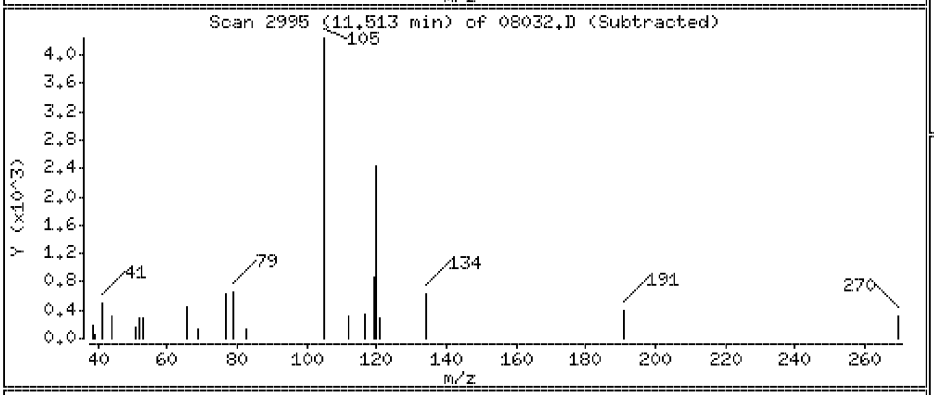
Column diameter: 0.32

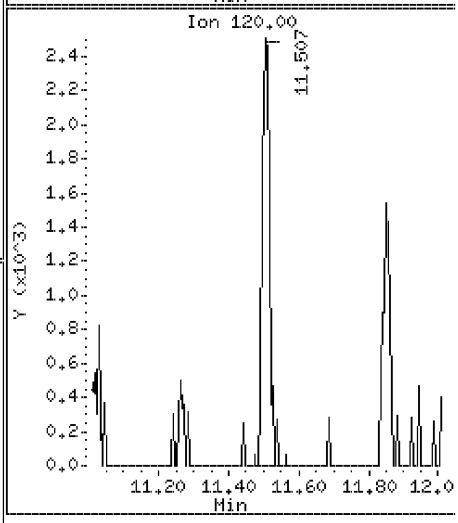
82 1,2,4-Trimethylbenzene

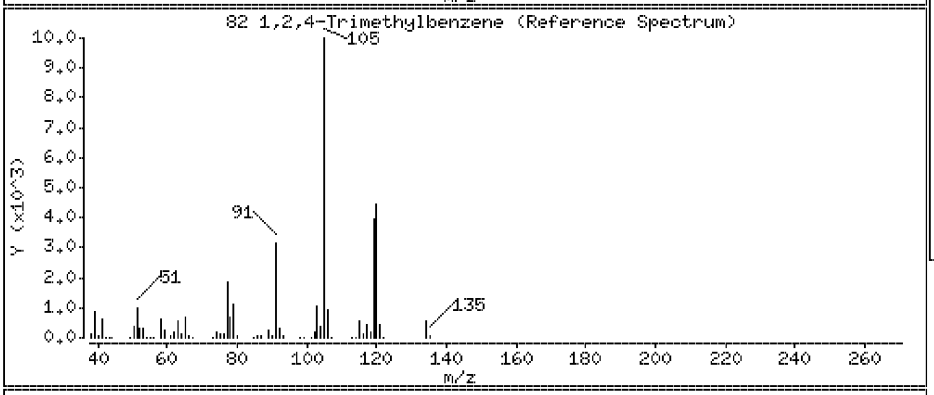
Concentration: 0.285 ppbv

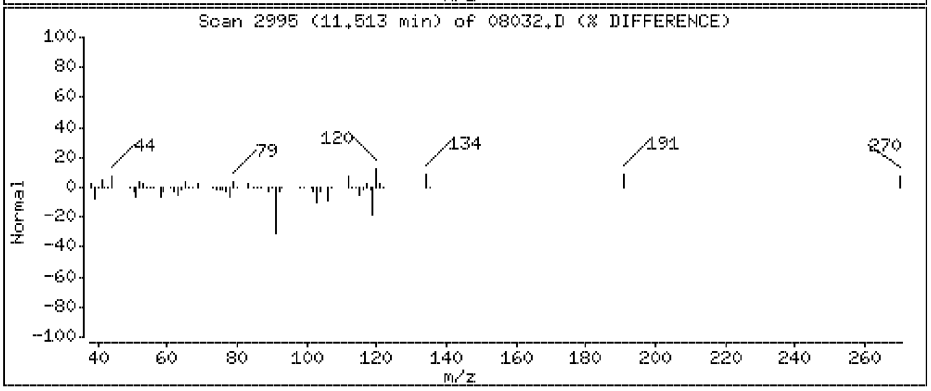












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

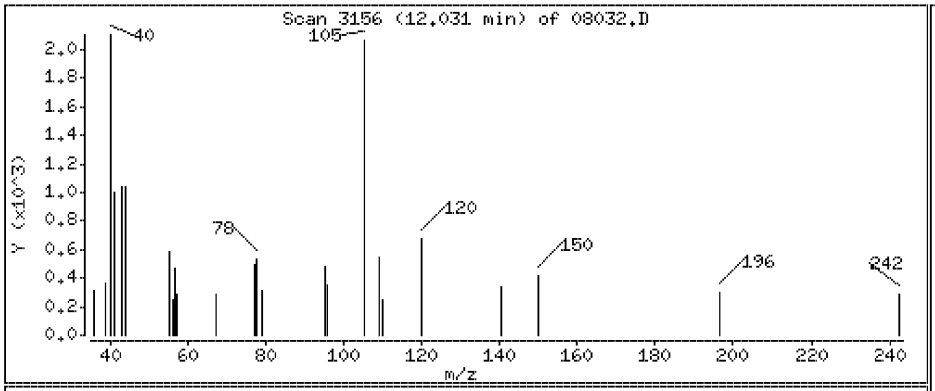
Operator: NCK

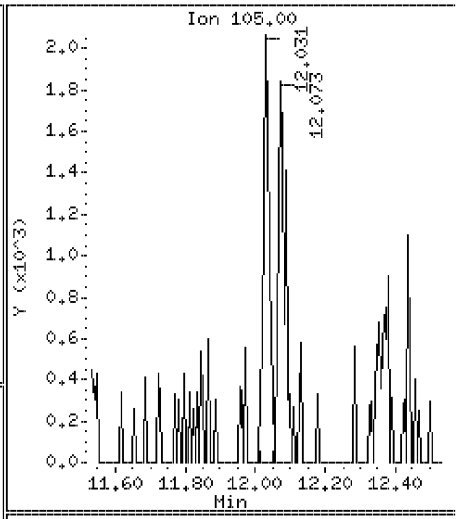
Column phase: J&W DB-5

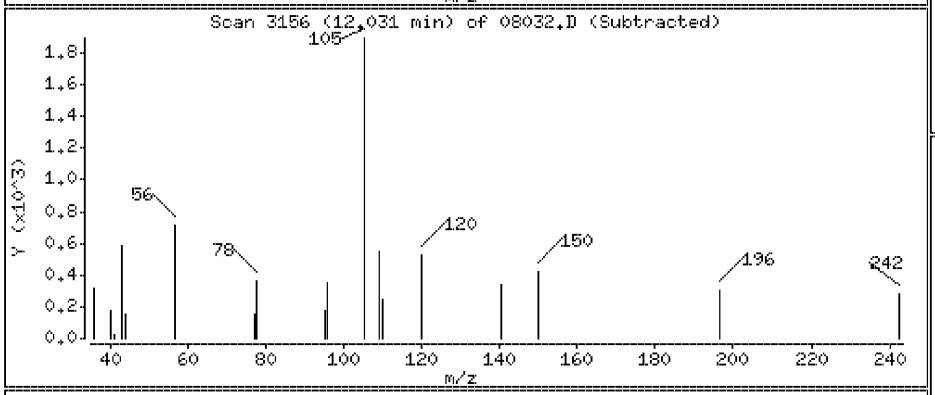
Column diameter: 0.32

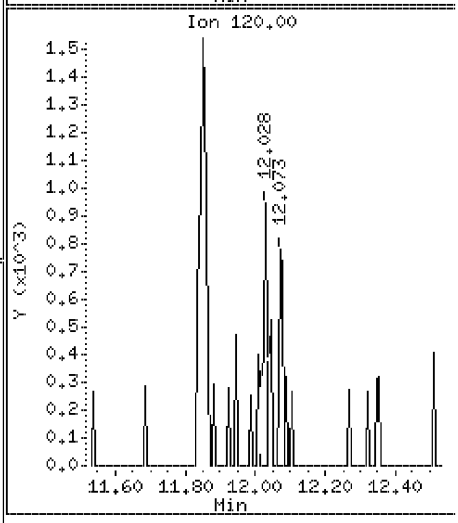
89 1,2,3-Trimethylbenzene

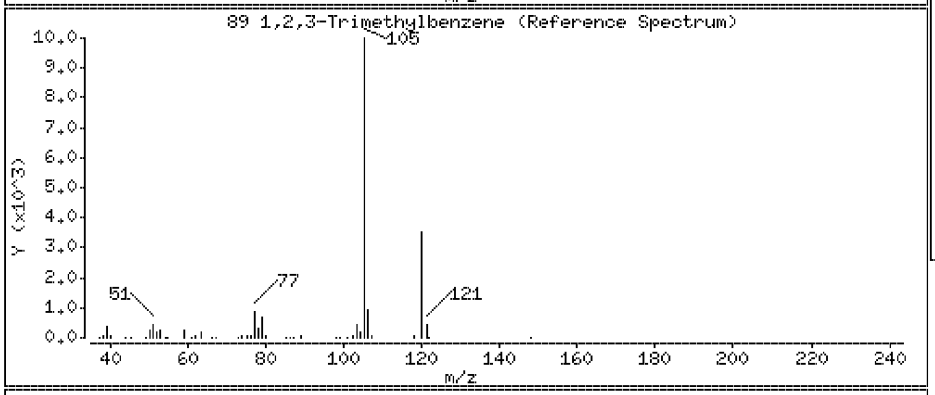
Concentration: 0.274 ppbv

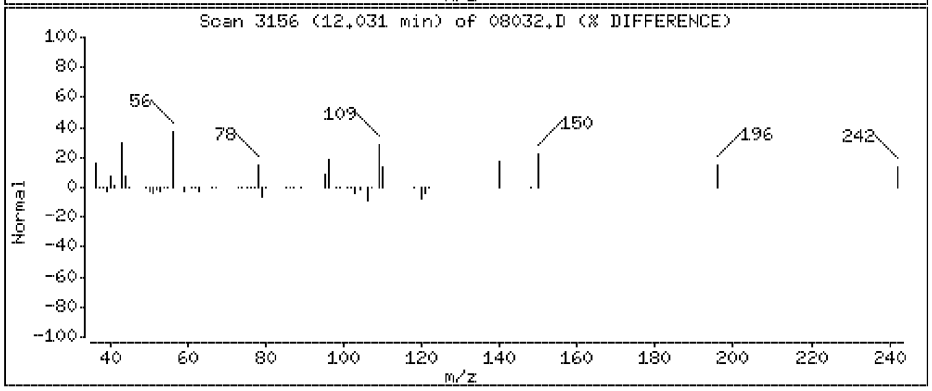












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08032.D

Date : 22-MAR-2017 00:43

Client ID:

Instrument: 10airB.i

Sample Info:

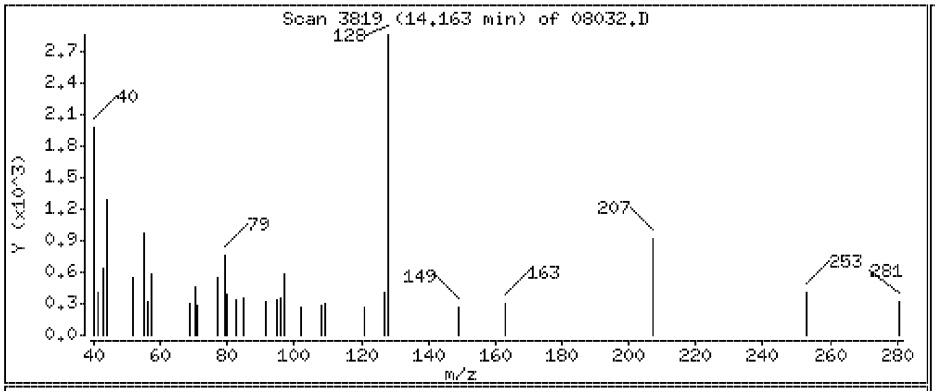
Operator: NCK

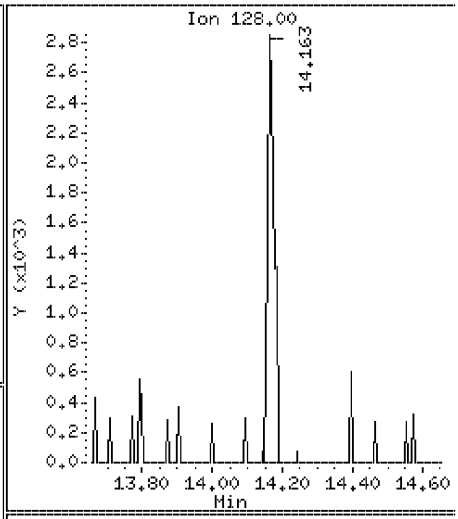
Column phase: J&W DB-5

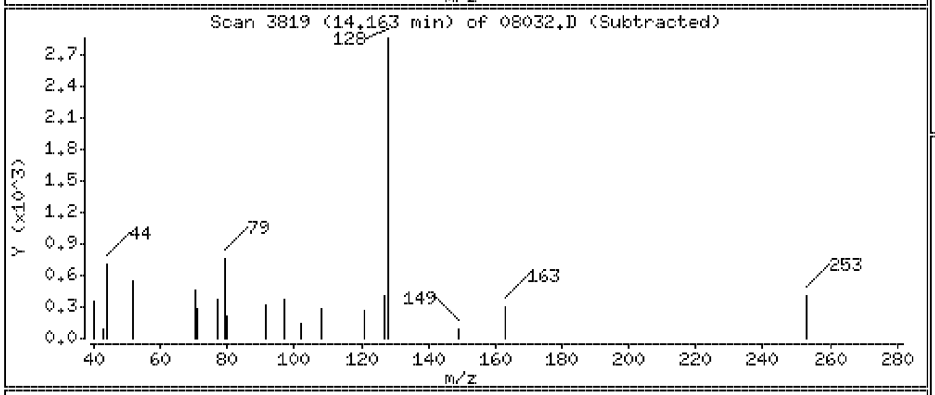
Column diameter: 0.32

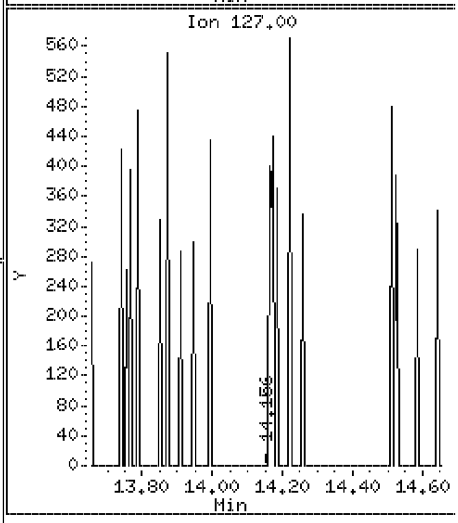
94 Naphthalene

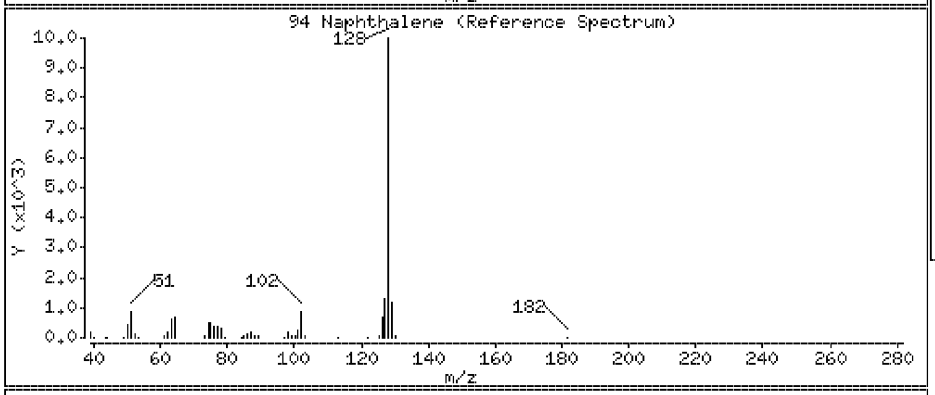
Concentration: 0.792 ppbv

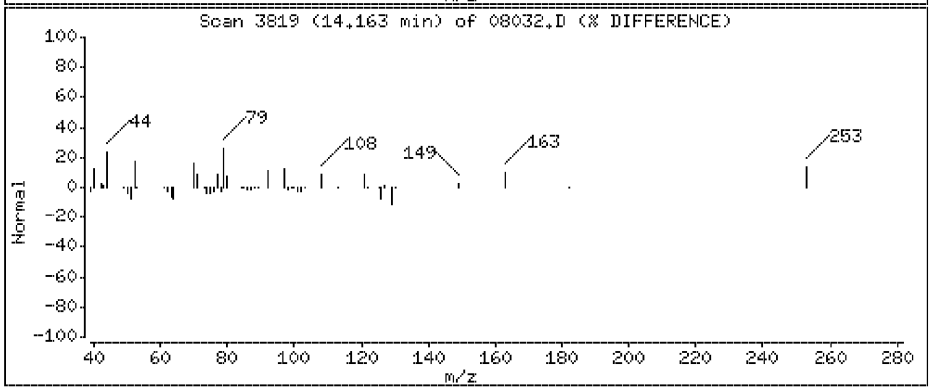






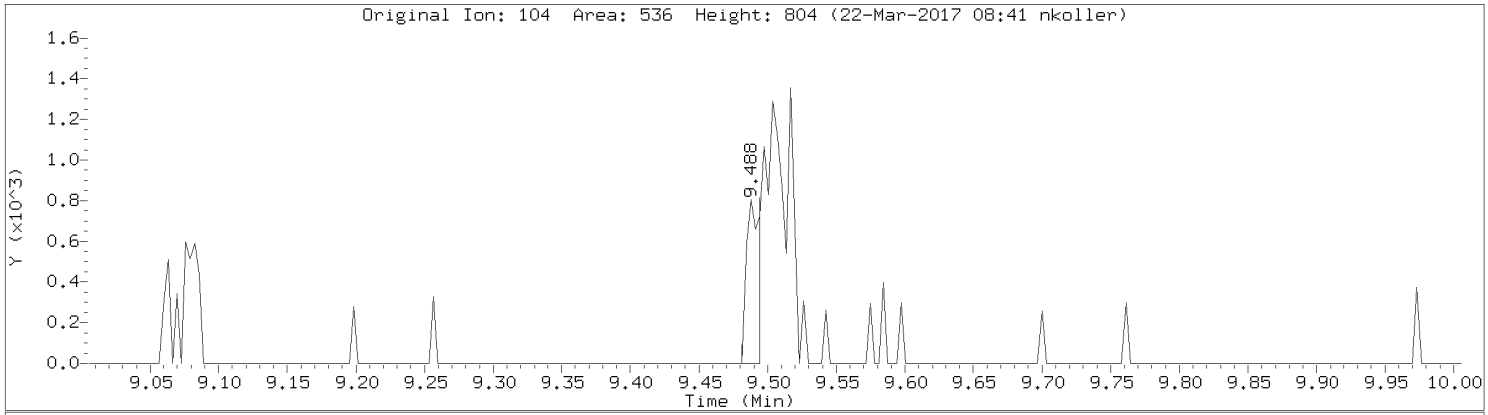


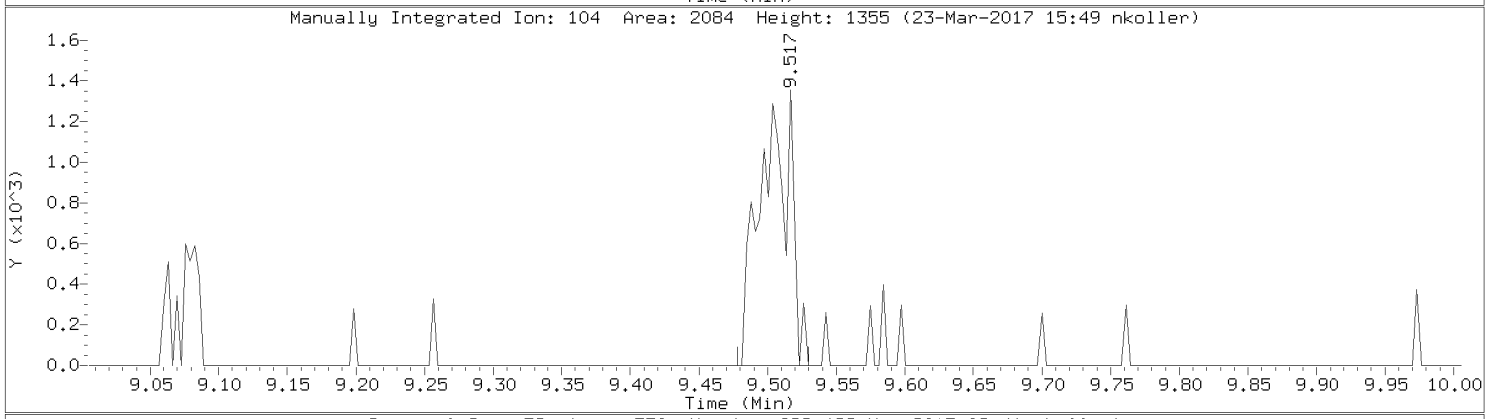


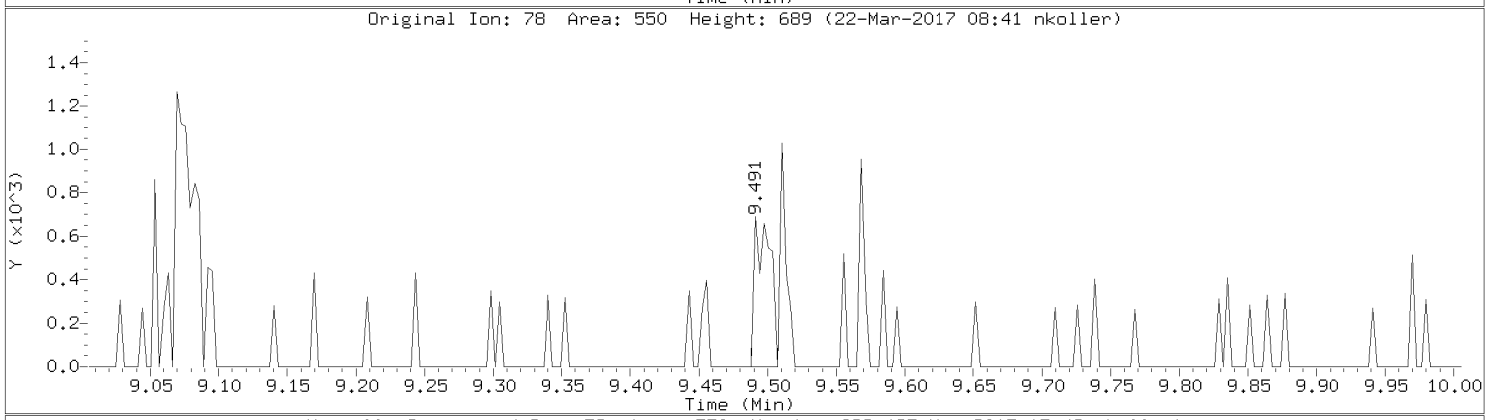


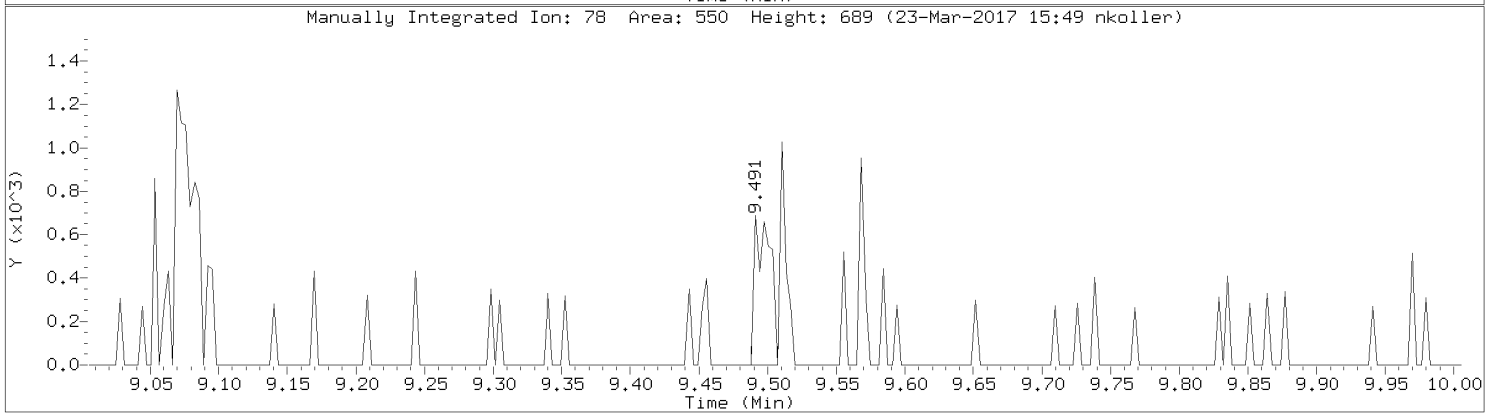
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08032.D
Injection Date: 22-MAR-2017 00:43
Instrument: 10airB.i
Lab Sample ID: 10381035020

Compound: Styrene
CAS Number: 100-42-5

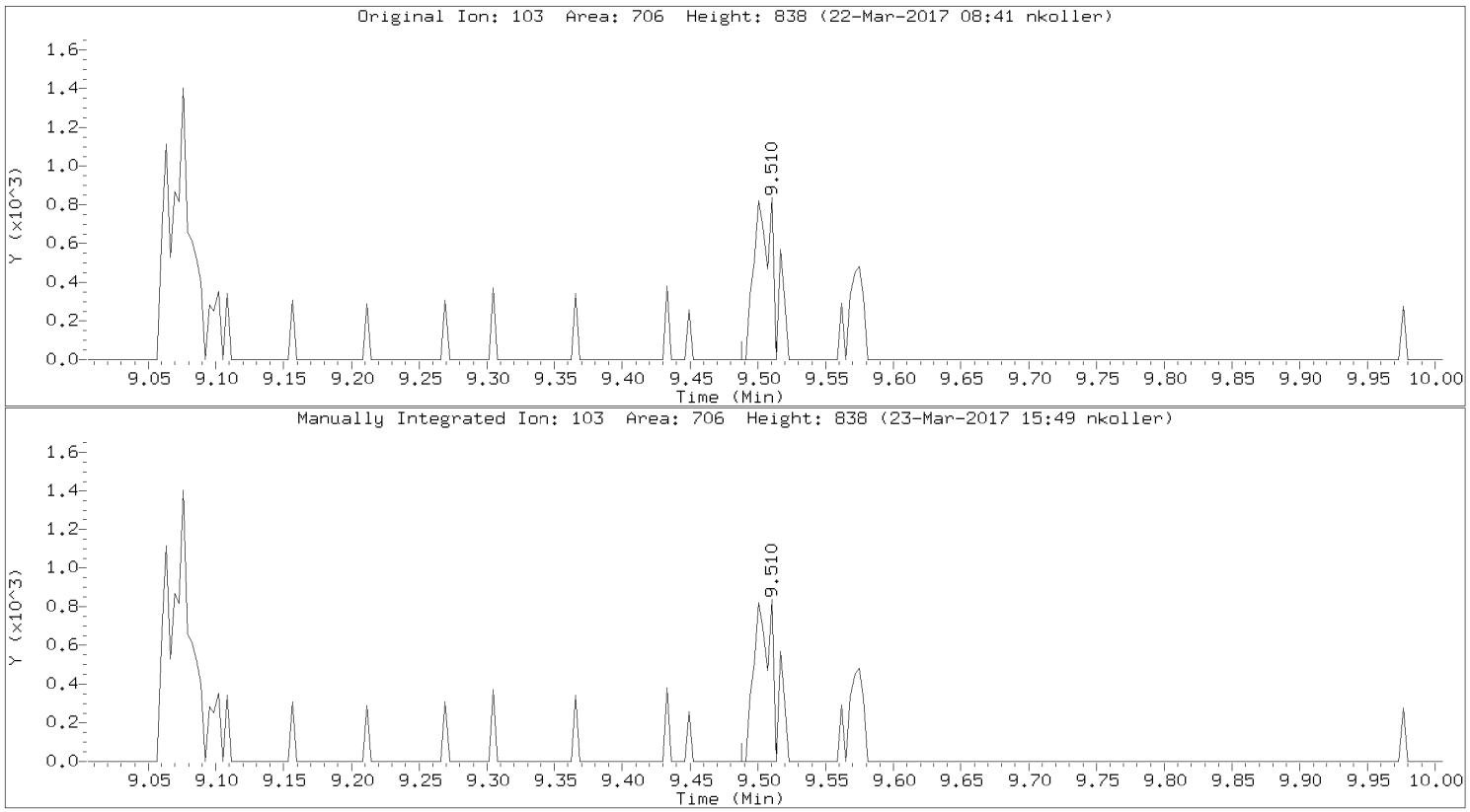






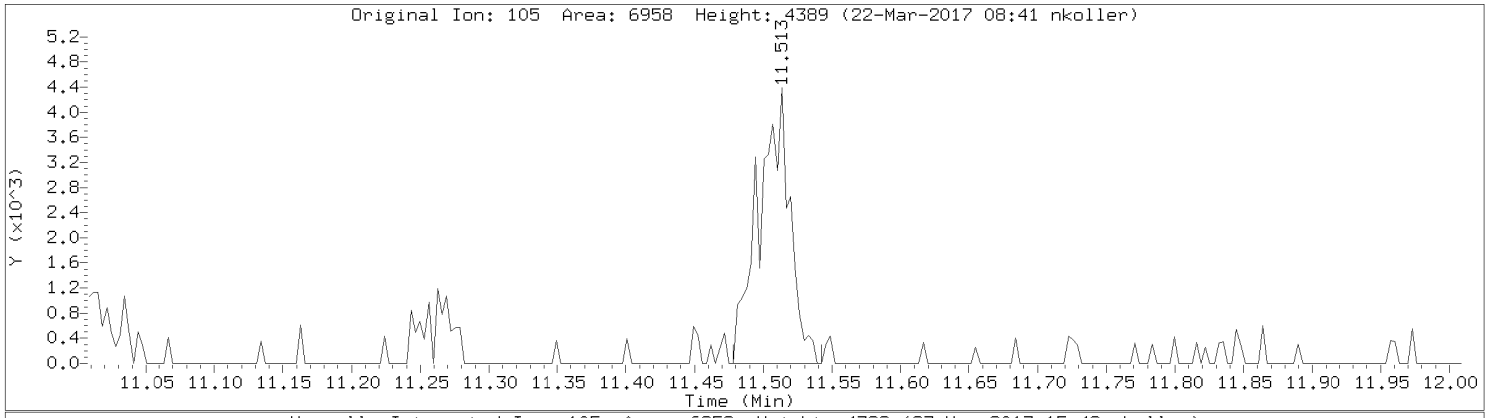


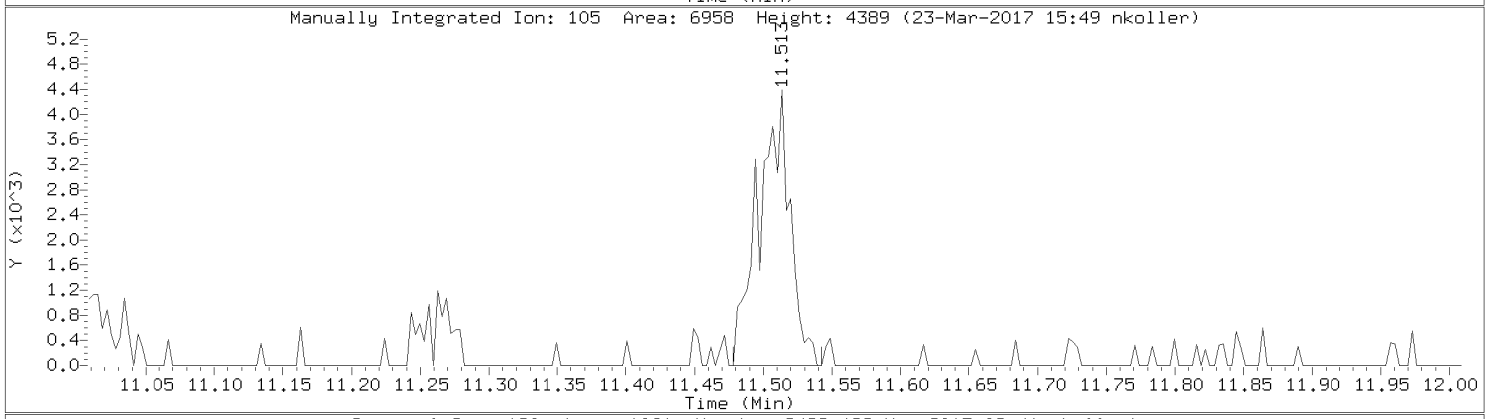
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08032.D
Injection Date: 22-MAR-2017 00:43
Instrument: 10airB.i
Lab Sample ID: 10381035020

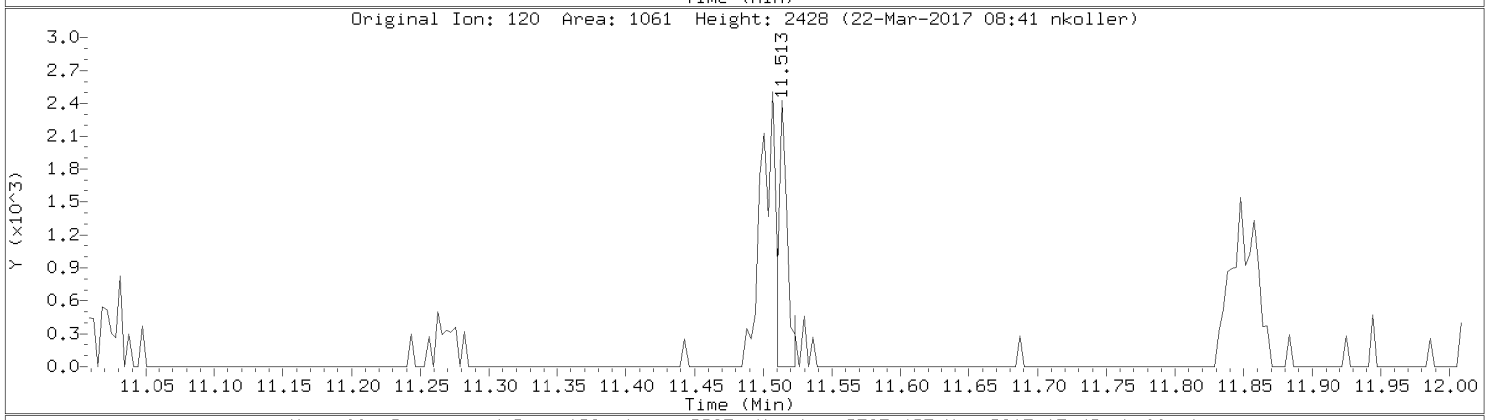


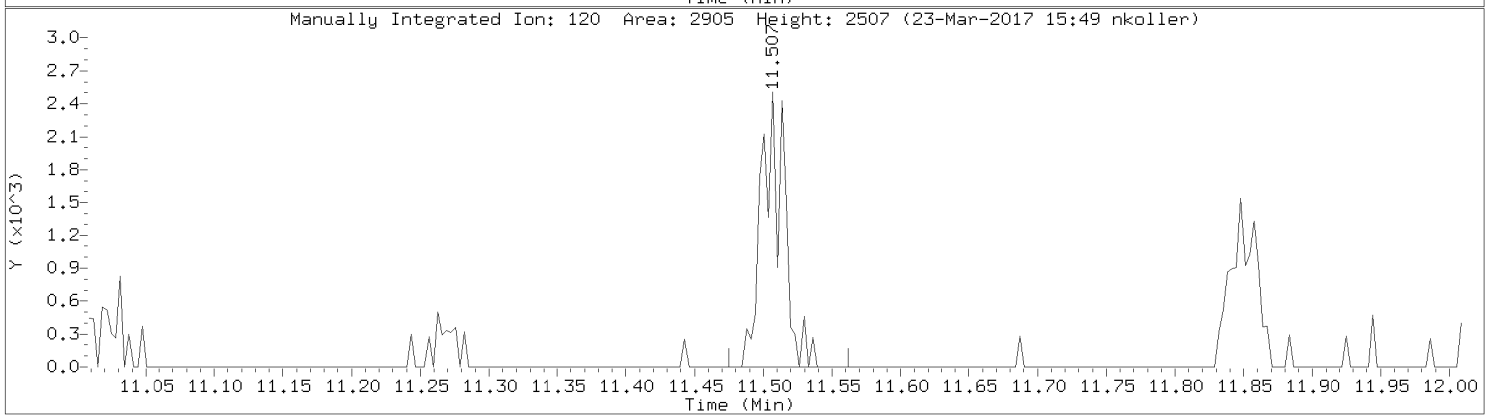
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08032.D
Injection Date: 22-MAR-2017 00:43
Instrument: 10airB.i
Lab Sample ID: 10381035020

Compound: 1,2,4-Trimethylbenzene
CAS Number: 95-63-6



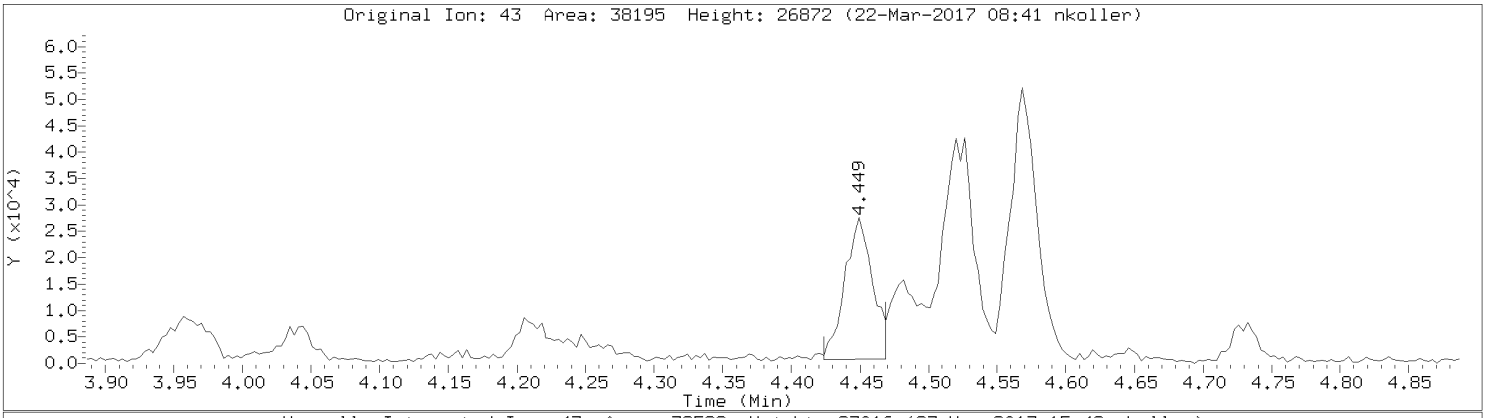


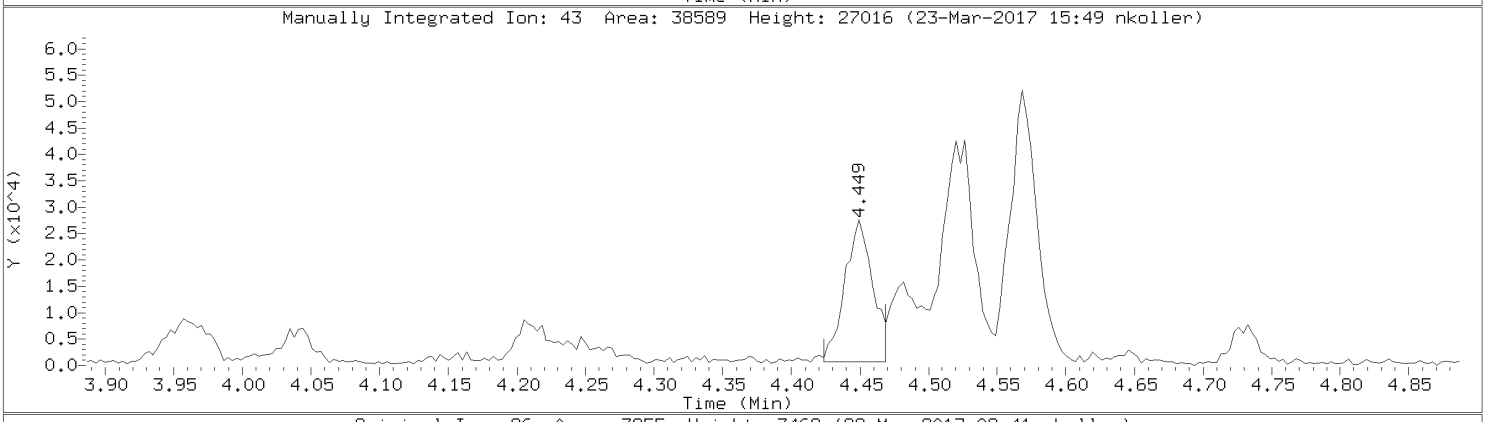


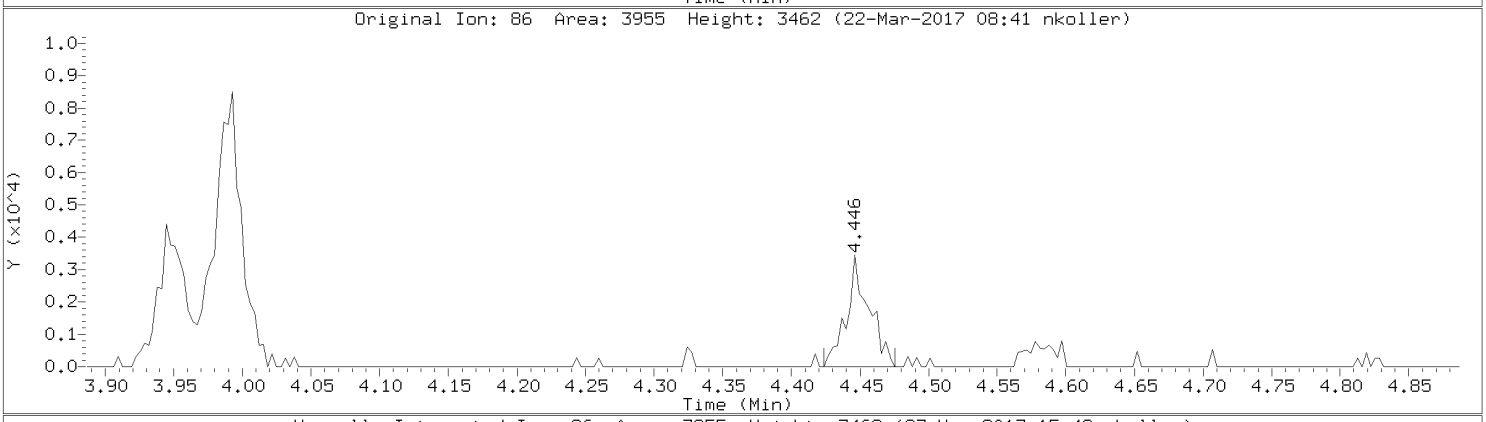


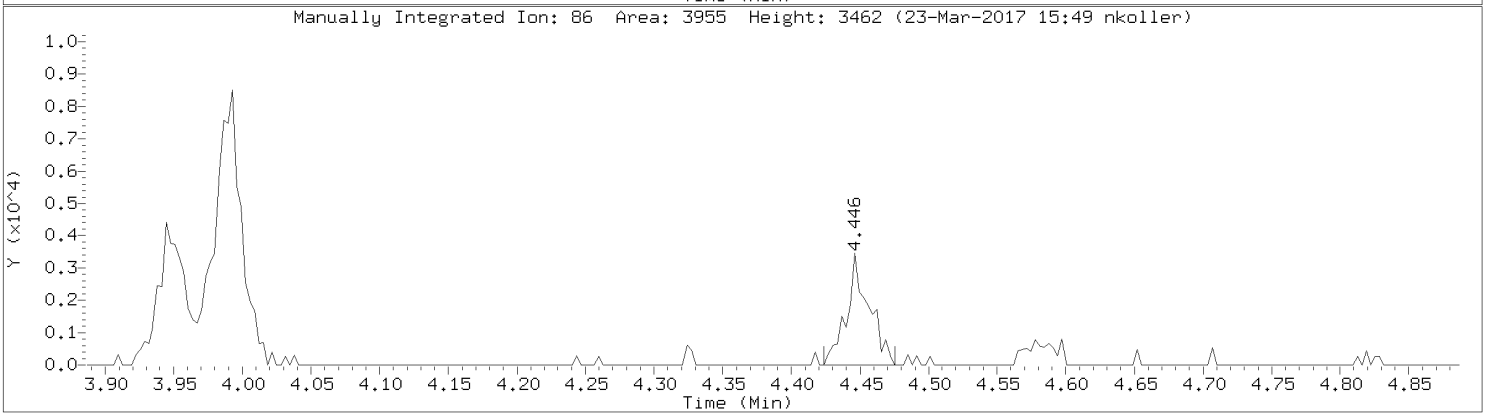
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08032.D
Injection Date: 22-MAR-2017 00:43
Instrument: 10airB.i
Lab Sample ID: 10381035020

Compound: Vinyl Acetate
CAS Number: 108-05-4



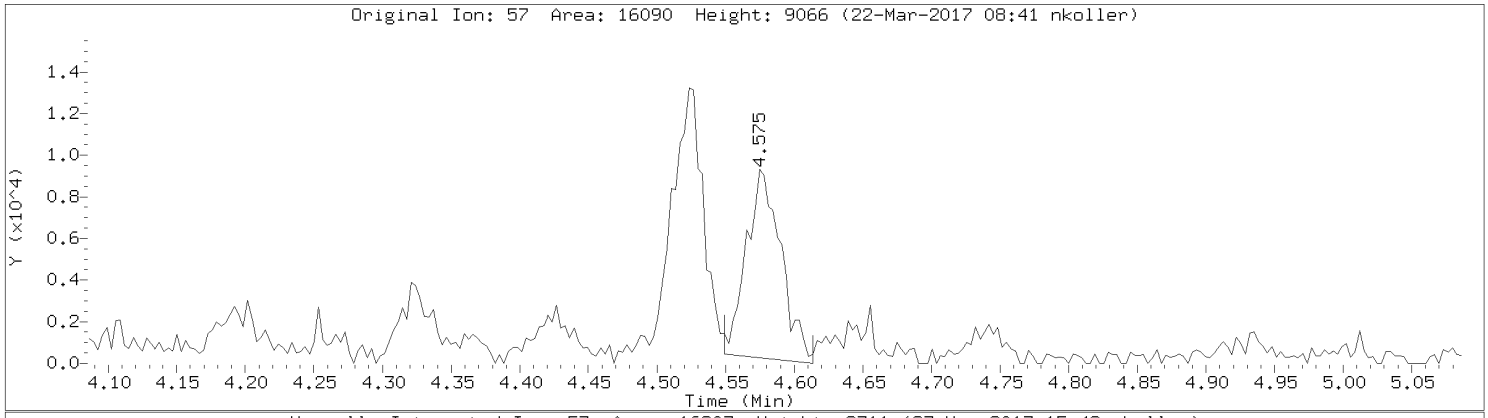


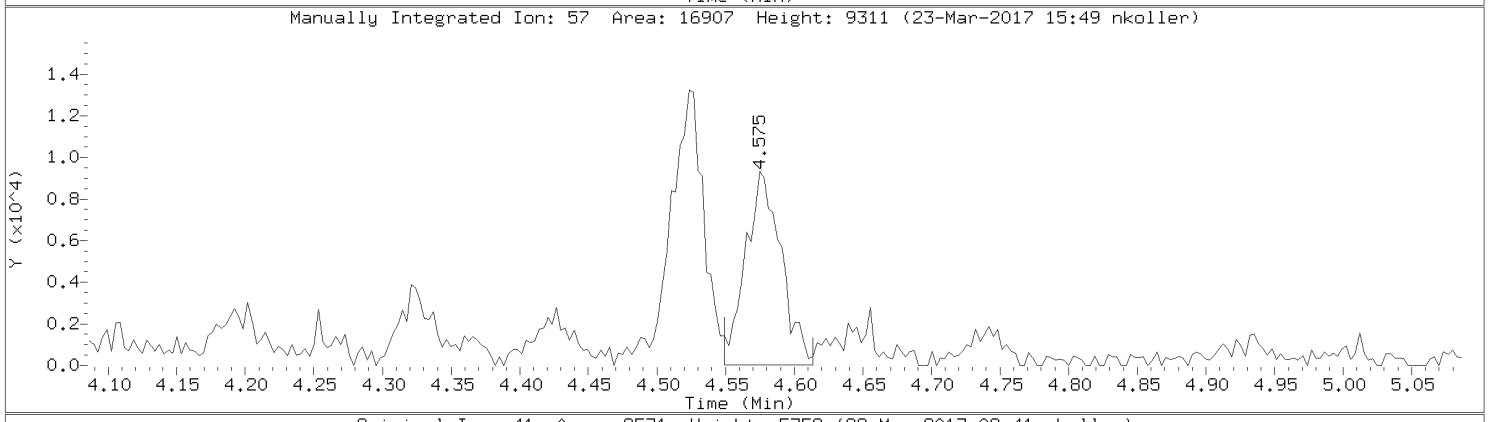


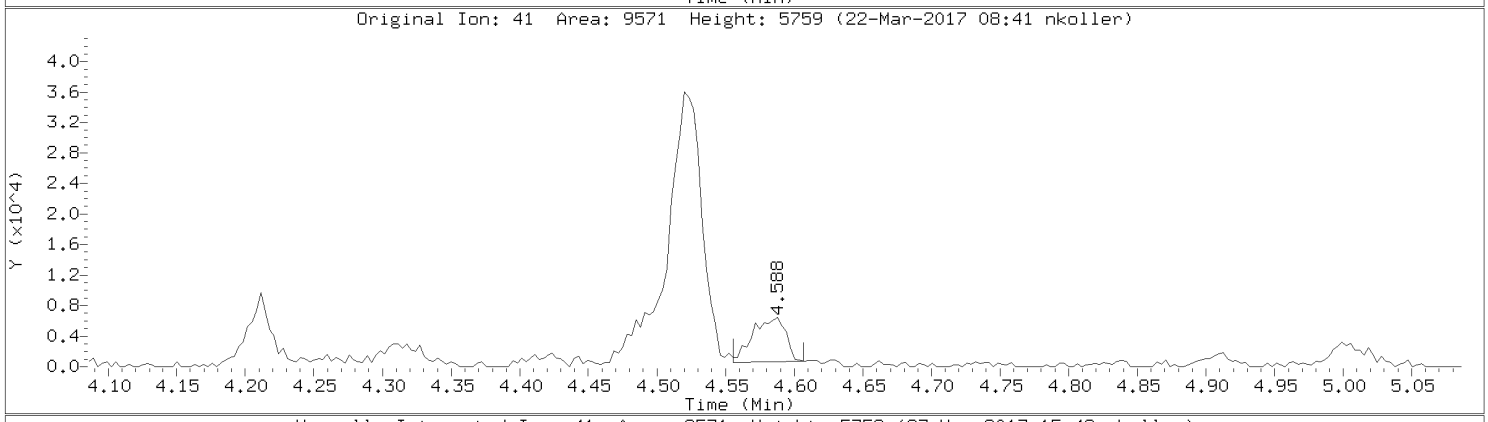


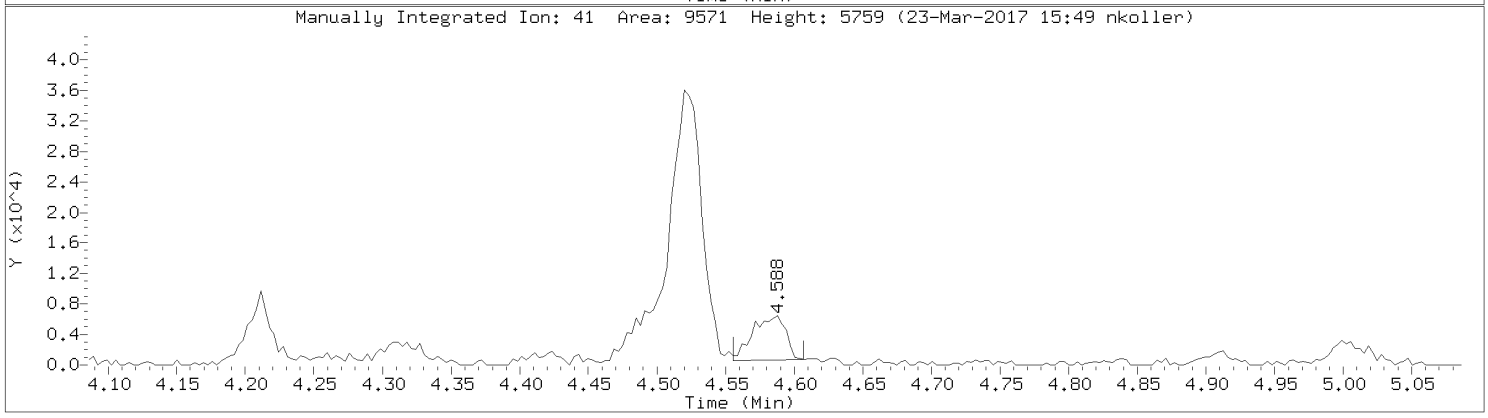
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08032.D
Injection Date: 22-MAR-2017 00:43
Instrument: 10airB.i
Lab Sample ID: 10381035020

Compound: n-Hexane
CAS Number: 110-54-3

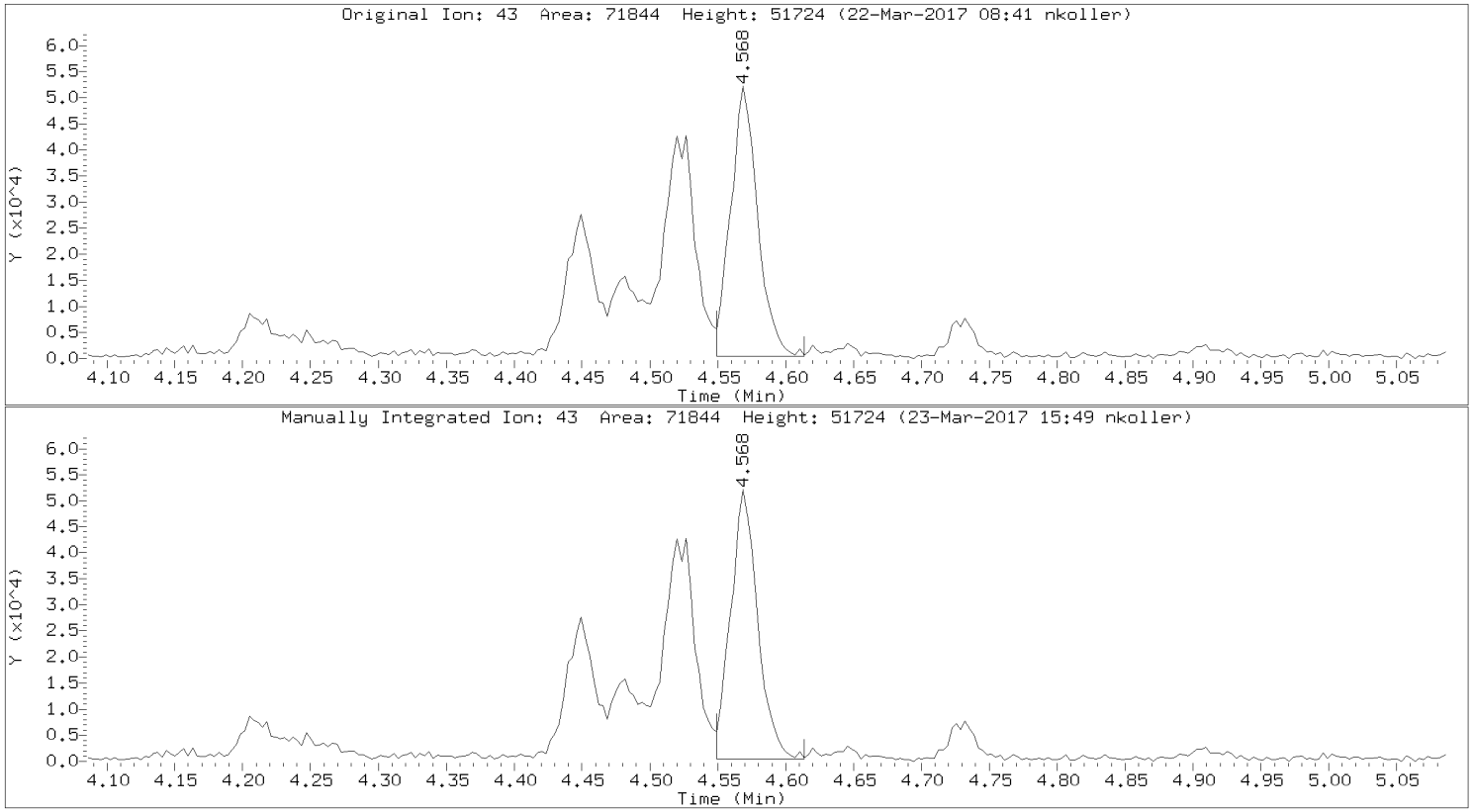






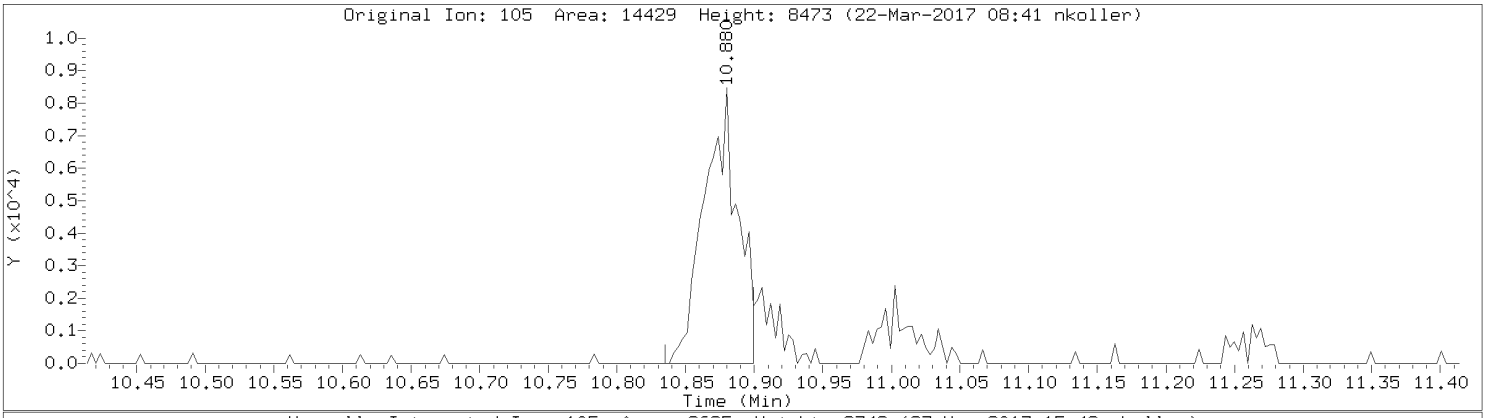


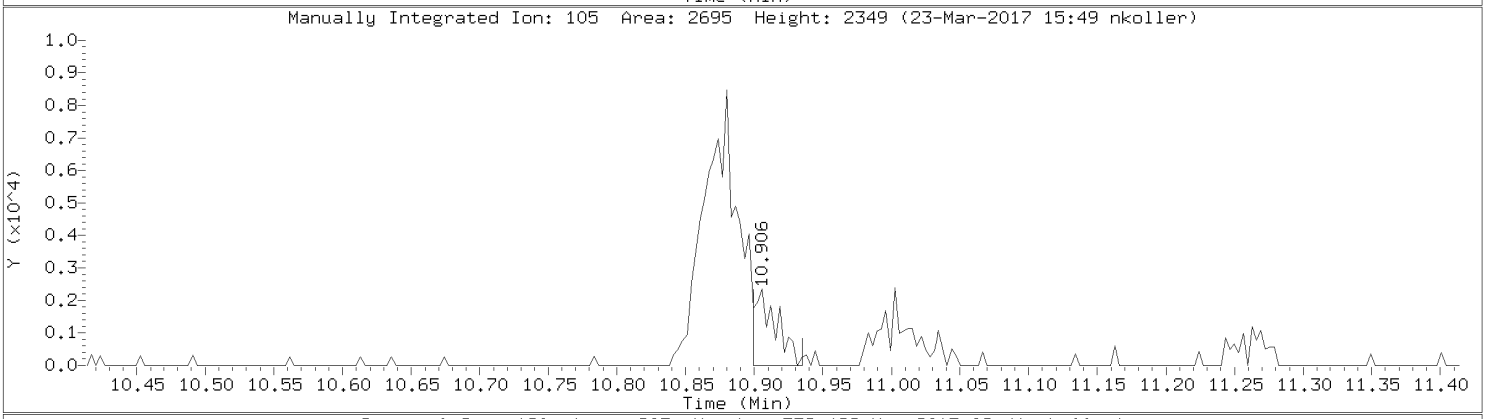
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08032.D
Injection Date: 22-MAR-2017 00:43
Instrument: 10airB.i
Lab Sample ID: 10381035020

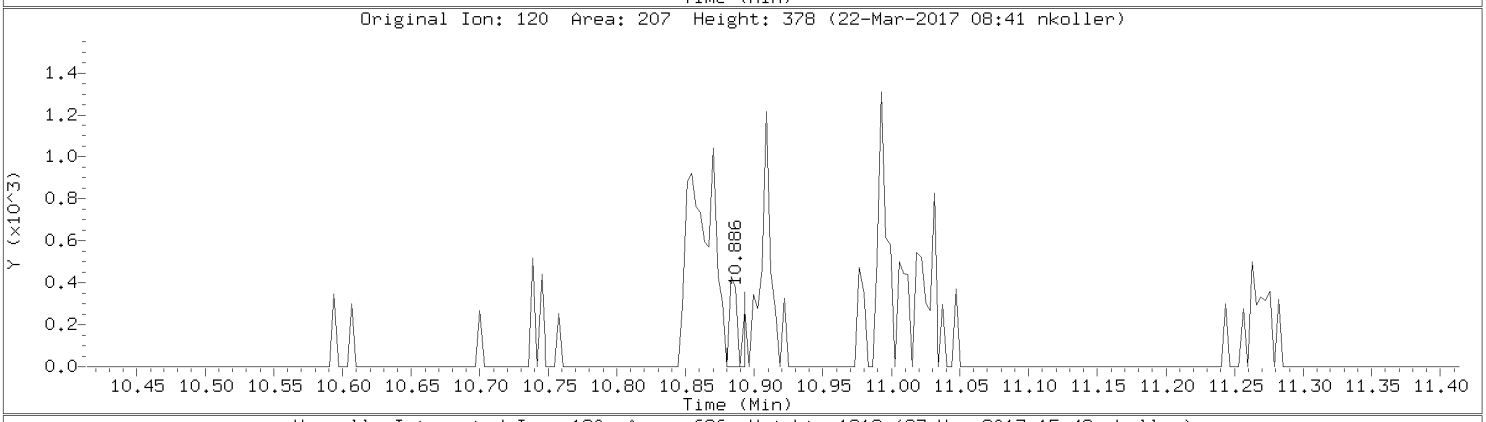


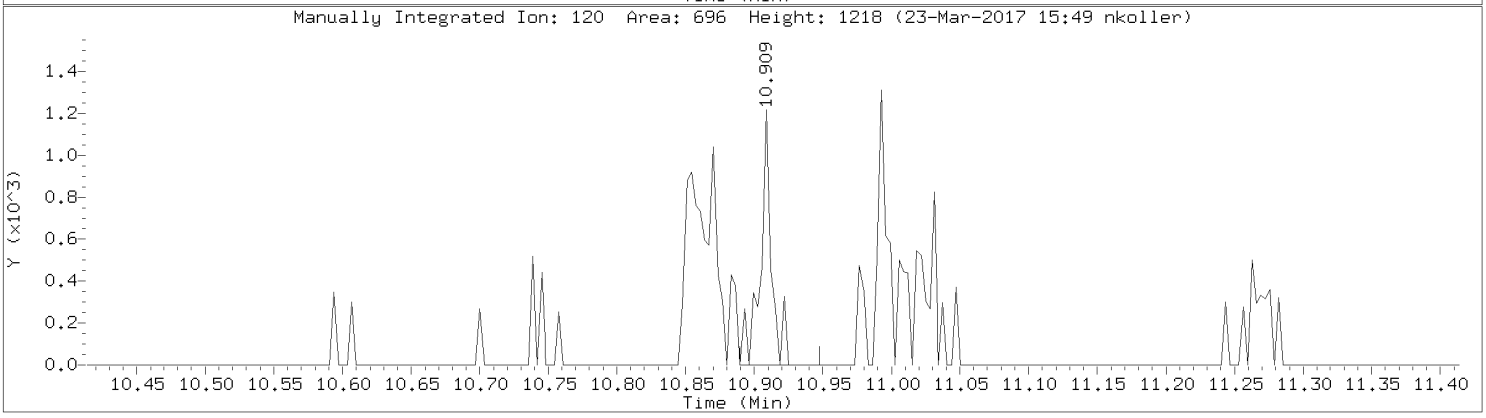
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08032.D
Injection Date: 22-MAR-2017 00:43
Instrument: 10airB.i
Lab Sample ID: 10381035020

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

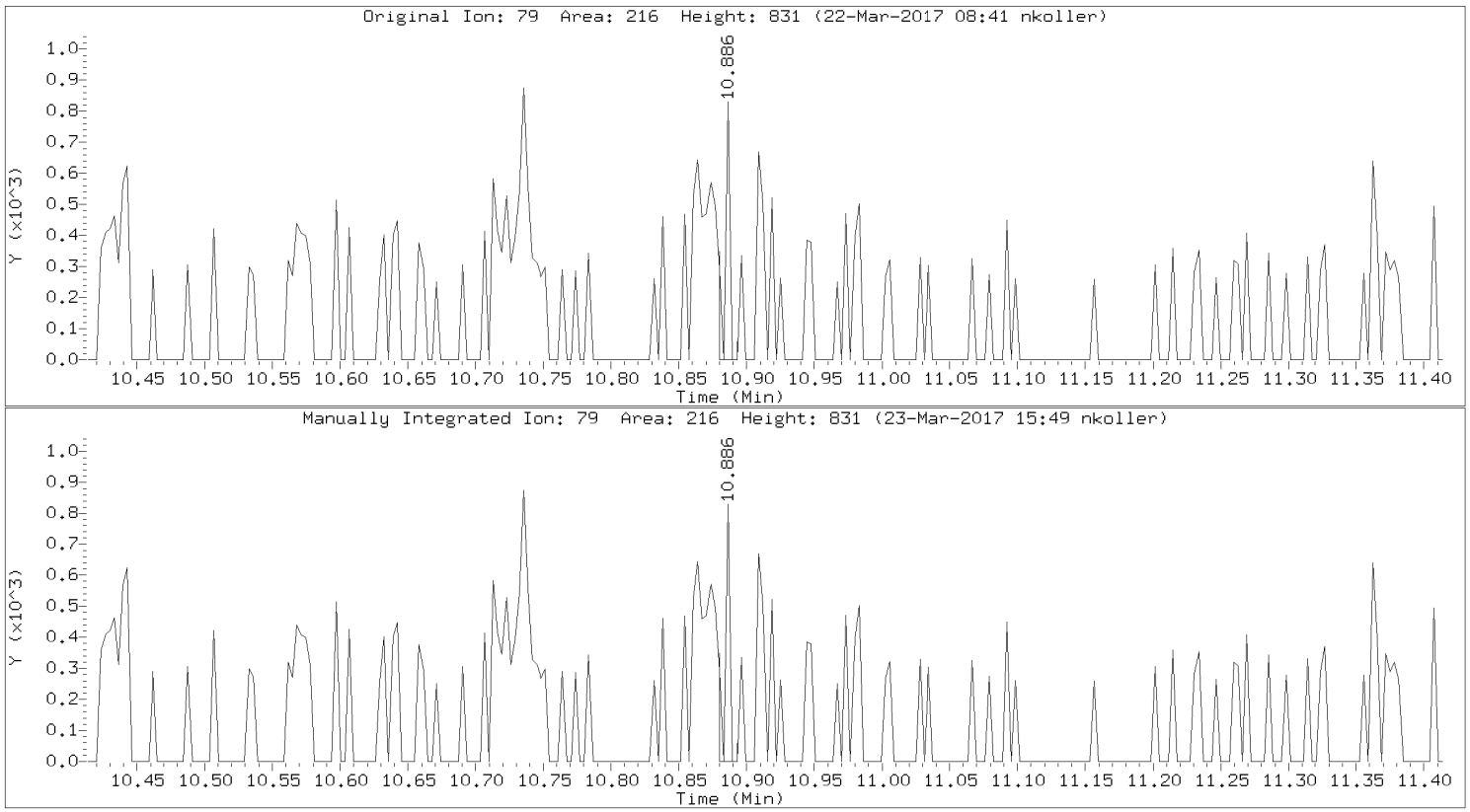






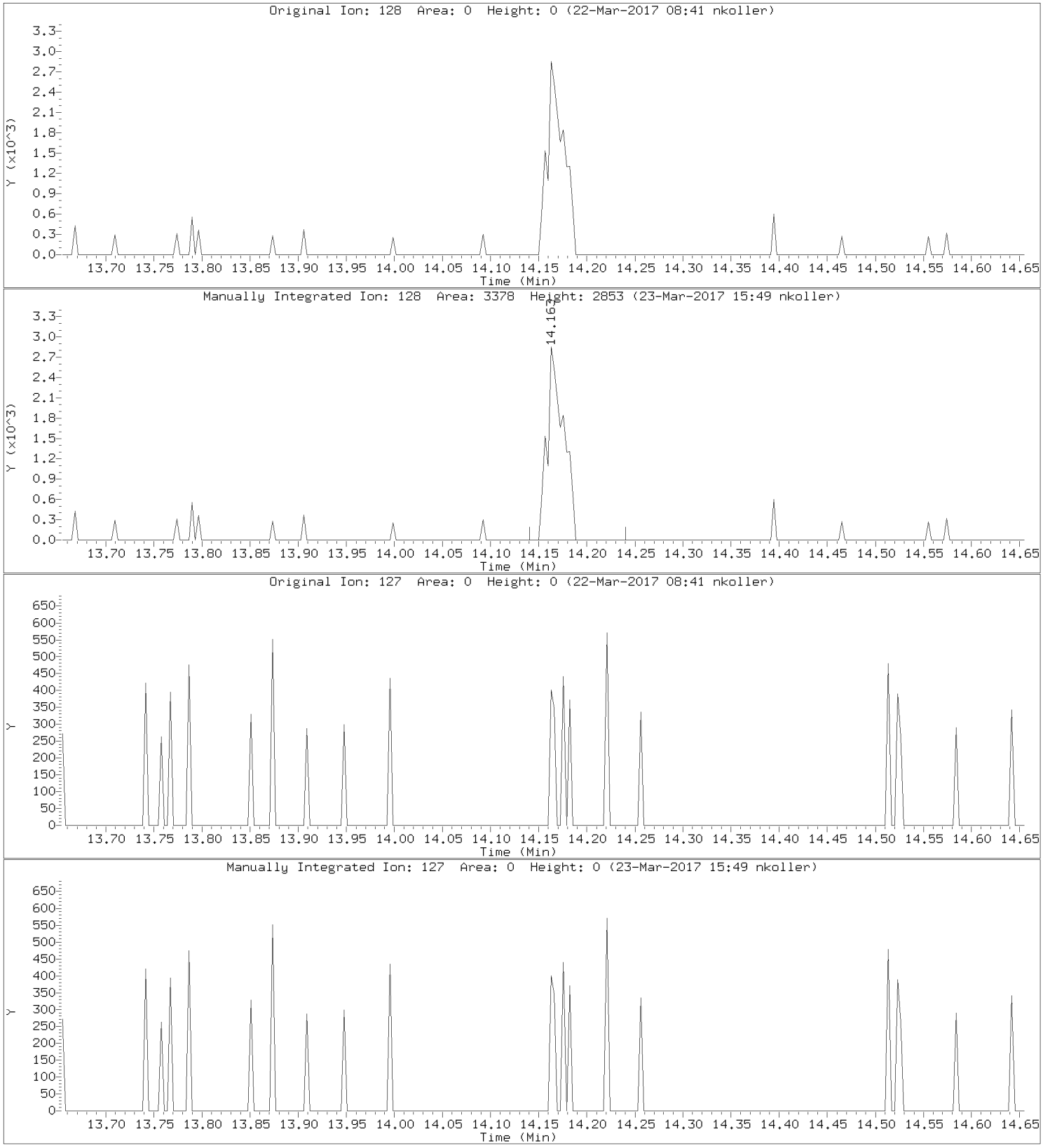


Data File: \\192.168.10.12\chem\10airB.i\032117.b/08032.D
Injection Date: 22-MAR-2017 00:43
Instrument: 10airB.i
Lab Sample ID: 10381035020



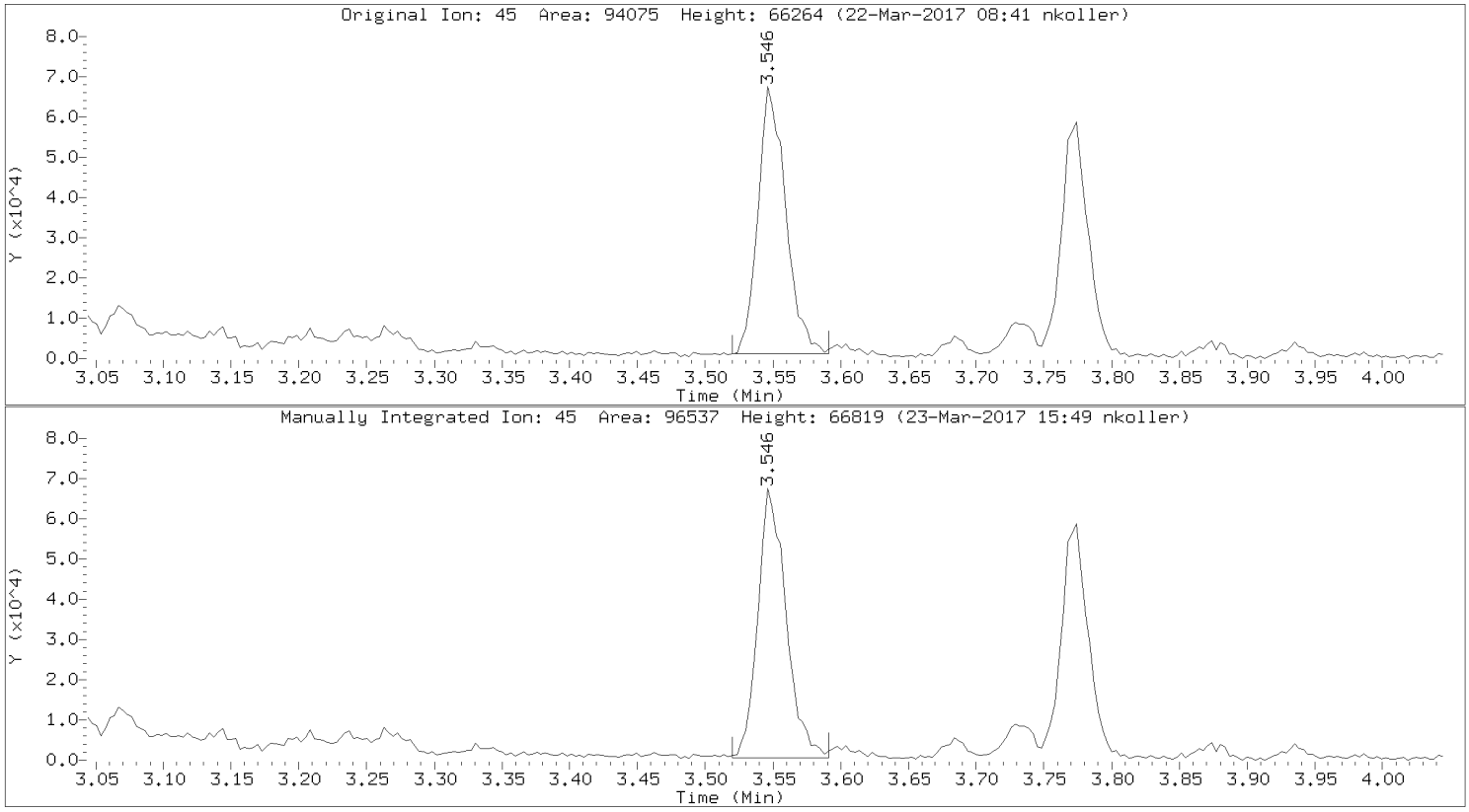
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08032.D
Injection Date: 22-MAR-2017 00:43
Instrument: 10airB.i
Lab Sample ID: 10381035020

Compound: Naphthalene
CAS Number: 91-20-3



Data File: \\192.168.10.12\chem\10airB.i\032117.b/08032.D
Injection Date: 22-MAR-2017 00:43
Instrument: 10airB.i
Lab Sample ID: 10381035020

Compound: Ethanol
CAS Number: 64-17-5



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08141.D
Report Date: 23-Mar-2017 14:20

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032217.b\08141.D
Lab Smp Id: 10381035020
Inj Date : 23-MAR-2017 06:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Meth Date : 23-Mar-2017 13:56 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 41
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: TCE_PCE.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$ 32 Hexane-d14(S)	66	4.487	4.494	(0.801)	1904135	9.29415	9.29
* 47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	5977432	10.0000	
51 Trichloroethene	130	5.979	5.989	(1.067)	1044834	12.9800	22.7
$ 59 Toluene-d8 (S)	98	7.073	7.076	(1.262)	5232051	9.50526	9.51
66 Tetrachloroethene	166	7.982	7.986	(0.924)	249875	2.93509	5.14
* 67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	3753067	10.0000	
$ 85 1,4-dichlorobenzene-d4 (S)	150	11.850	11.851	(1.371)	1497200	8.26674	8.27

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08141.D
Report Date: 23-Mar-2017 14:20

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08141.D
Lab Smp Id: 10381035020
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 22-MAR-2017
Calibration Time: 09:05
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

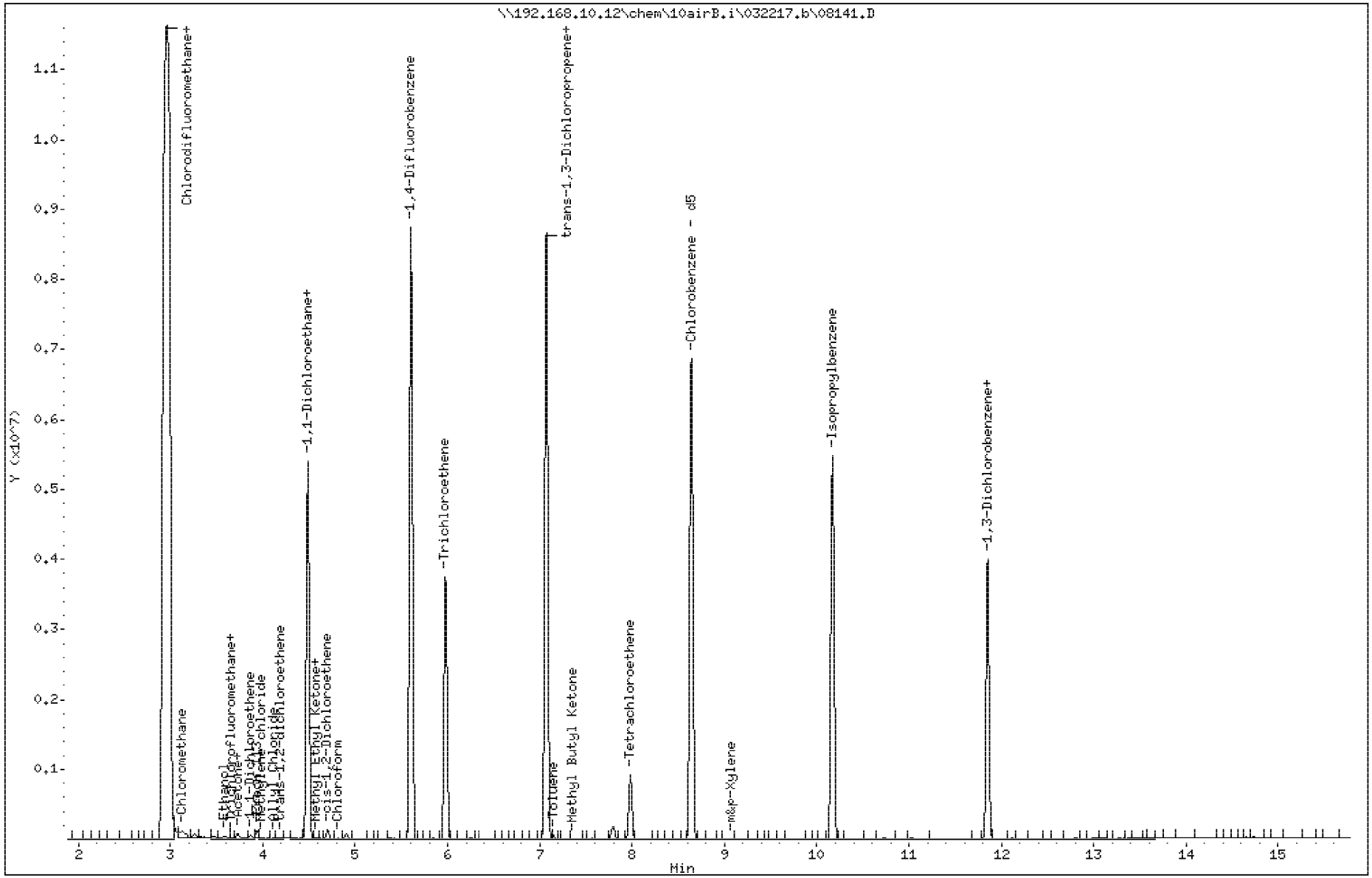
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	5977432	-21.77
67 Chlorobenzene - d	5205948	3123569	7288327	3753067	-27.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08141.D
Date : 23-MAR-2017 06:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08141.D

Date : 23-MAR-2017 06:10

Client ID:

Instrument: 10airB.i

Sample Info:

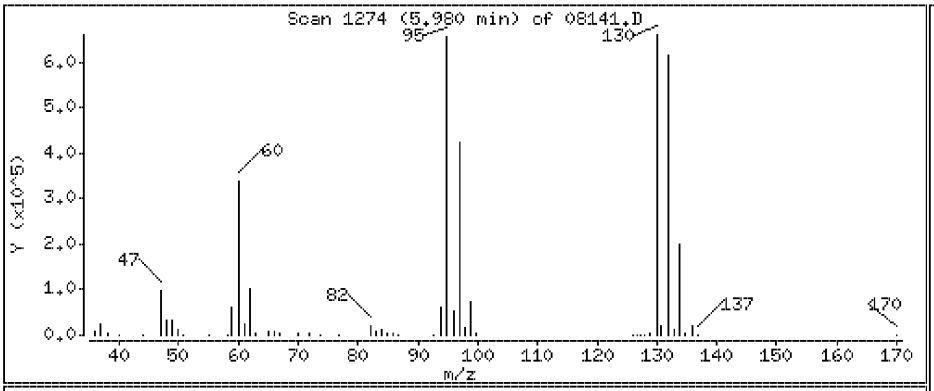
Operator: NCK

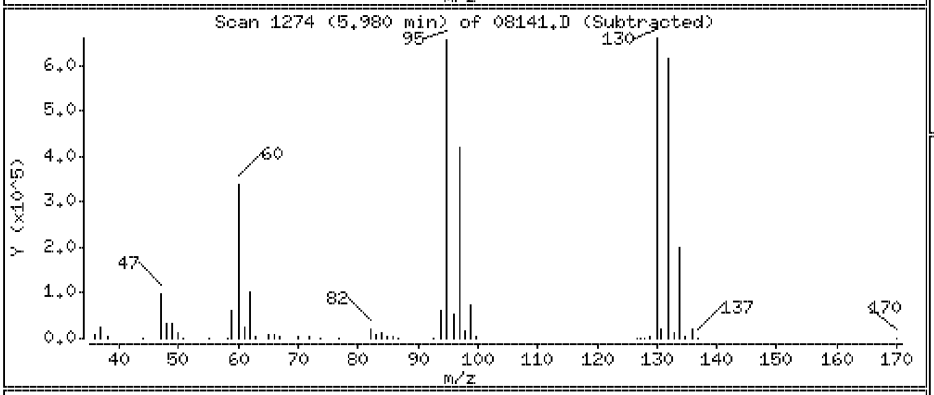
Column phase: J&W DB-5

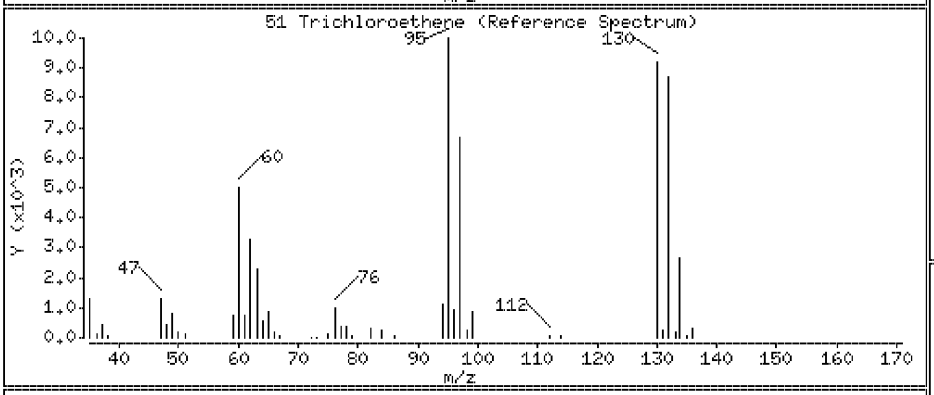
Column diameter: 0.32

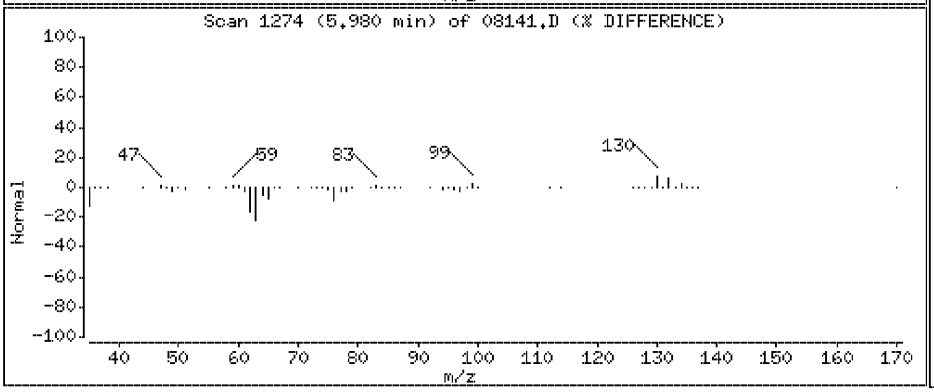
51 Trichloroethene

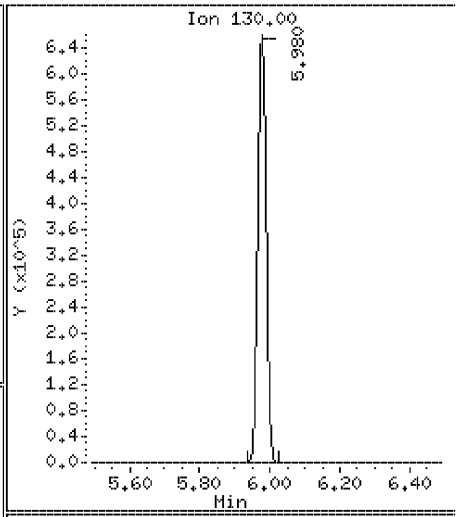
Concentration: 22.7 ppbv

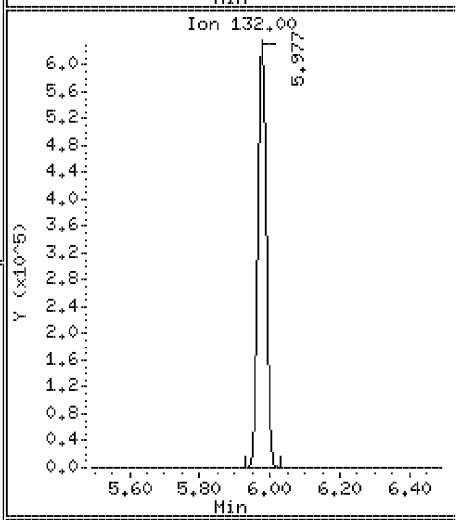


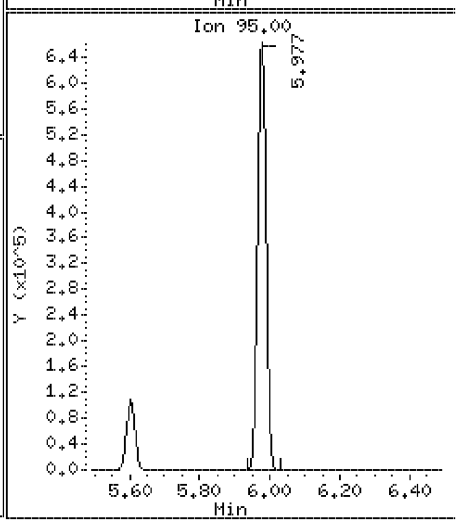












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08141.D

Date : 23-MAR-2017 06:10

Client ID:

Instrument: 10airB.i

Sample Info:

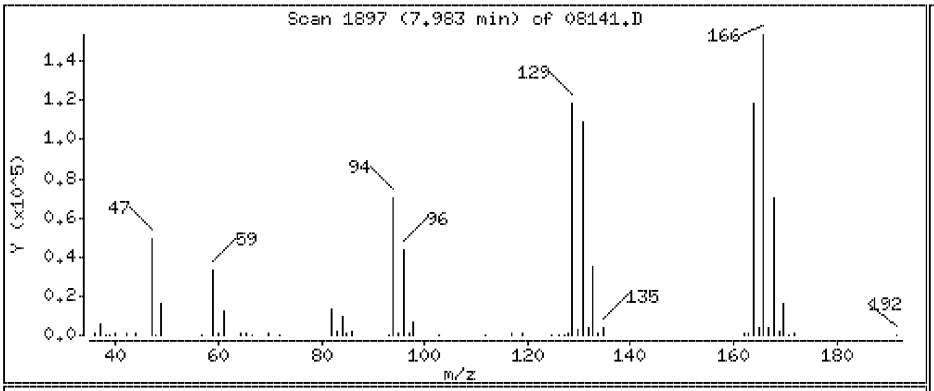
Operator: NCK

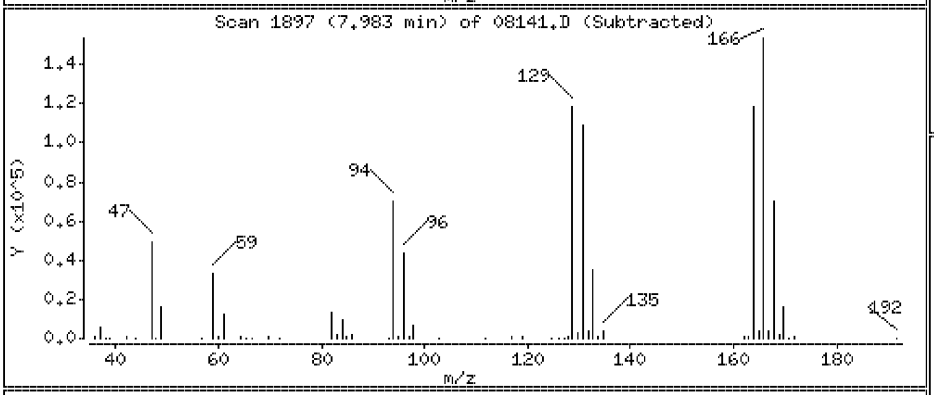
Column phase: J&W DB-5

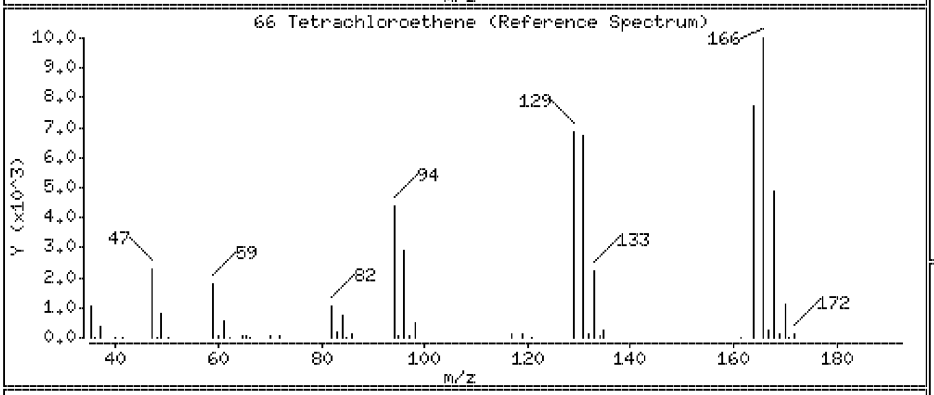
Column diameter: 0.32

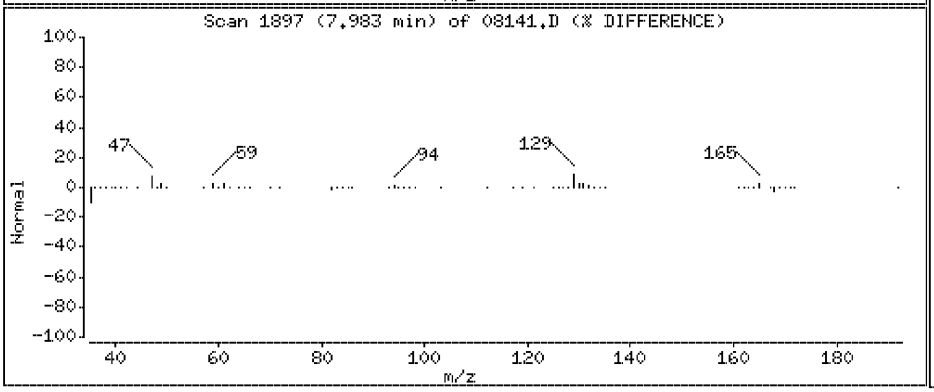
66 Tetrachloroethene

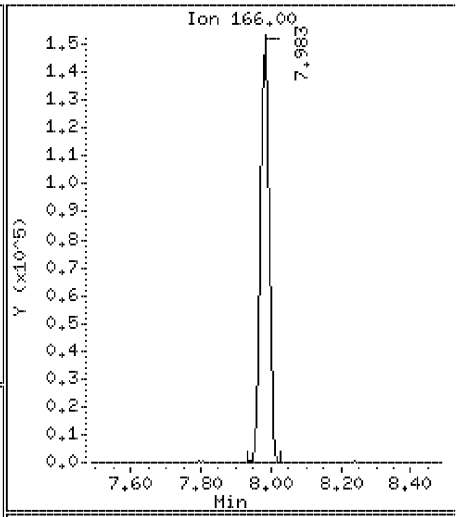
Concentration: 5.14 ppbv

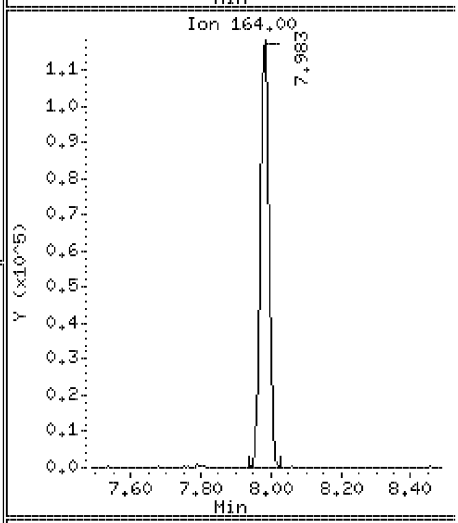


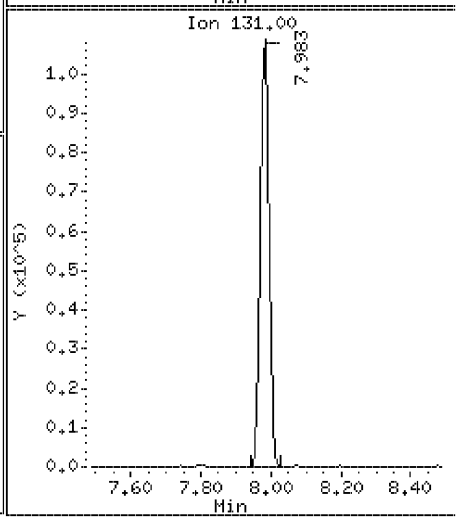












Data File: \\192.168.10.12\chem\10airB.i\032217.b/08141.D
Injection Date: 23-MAR-2017 06:10
Instrument: 10airB.i
Lab Sample ID: 10381035020
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_10_20170302DUP **Lab ID: 10381035021** Collected: 03/02/17 12:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**17.9**	ug/m3	4.1	1.4	1.68		03/22/17 01:42	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/22/17 01:42	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/22/17 01:42	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/22/17 01:42	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/22/17 01:42	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/22/17 01:42	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/22/17 01:42	106-99-0	
2-Butanone (MEK)	**3.2J**	ug/m3	5.0	0.38	1.68		03/22/17 01:42	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/22/17 01:42	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/22/17 01:42	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/22/17 01:42	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/22/17 01:42	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/22/17 01:42	75-00-3	
Chloroform	**1.7**	ug/m3	0.83	0.32	1.68		03/22/17 01:42	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/22/17 01:42	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/22/17 01:42	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/22/17 01:42	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/22/17 01:42	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/22/17 01:42	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/22/17 01:42	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/22/17 01:42	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/22/17 01:42	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/22/17 01:42	106-46-7	
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/22/17 01:42	75-71-8	
1,1-Dichloroethane	**6.8**	ug/m3	1.4	0.26	1.68		03/22/17 01:42	75-34-3	
1,2-Dichloroethane	**0.46J**	ug/m3	0.69	0.34	1.68		03/22/17 01:42	107-06-2	
1,1-Dichloroethene	**14.1**	ug/m3	1.4	0.40	1.68		03/22/17 01:42	75-35-4	
cis-1,2-Dichloroethene	**1420**	ug/m3	1.4	0.41	1.68		03/22/17 01:42	156-59-2	
cis-1,2-Dichloroethene	**2770**	ug/m3	68.0	20.7	84		03/23/17 07:06	156-59-2	
trans-1,2-Dichloroethene	**4.8**	ug/m3	1.4	0.65	1.68		03/22/17 01:42	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/22/17 01:42	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/22/17 01:42	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/22/17 01:42	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/22/17 01:42	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/22/17 01:42	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/22/17 01:42	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/22/17 01:42	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.7	0.32	1.68		03/22/17 01:42	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/22/17 01:42	87-68-3	
n-Hexane	**1.2**	ug/m3	1.2	0.60	1.68		03/22/17 01:42	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/22/17 01:42	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/22/17 01:42	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/22/17 01:42	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/22/17 01:42	108-87-2	
Methylene Chloride	**6.2**	ug/m3	5.9	0.91	1.68		03/22/17 01:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/22/17 01:42	108-10-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D
Report Date: 23-Mar-2017 15:50

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08034.D
Lab Smp Id: 10381035021
Inj Date : 22-MAR-2017 01:42
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 34
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	3.234	3.243	(0.576)	128845	1.87401	3.15	
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.555	3.545	(0.634)	47782	2.05782	3.46	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.668	3.677	(0.654)	22243	0.17723	0.298	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.745	3.722	(0.668)	441486	4.40386	7.40	(M)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.899	3.912	(0.695)	188884	2.08119	3.50	
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.941	3.951	(0.703)	10635	0.11122	0.187	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D
Report Date: 23-Mar-2017 15:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	4.005	(0.711)	85806	1.04112	1.75	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.253	4.275	(0.758)	31132	0.70643	1.19	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.446	4.388	(0.793)	60076	0.39876	0.670(M)	
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	94392	0.98737	1.66	
$	32 Hexane-d14(S)	66	4.491	4.491	(0.801)	2067916	9.72766	9.73	
	33 Methyl Ethyl Ketone	72	4.571	4.555	(0.815)	14526	0.62834	1.06	
	34 n-Hexane	57	4.578	4.587	(0.816)	21451	0.20170	0.339(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.725	4.716	(0.842)	16753	0.11197	0.188(Q)	
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	11332427	209.390	352(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.838	4.841	(0.862)	22726	0.20103	0.338	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	5.237	5.233	(0.934)	107182	0.80707	1.36	
	42 1,2-Dichloroethane	62	5.237	5.237	(0.934)	7304	0.06654	0.112	
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.610	5.613	(1.000)	6202279	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.986	5.986	(1.067)	2466015	29.5247	49.6	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	5509707	9.64681	9.65	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.147	7.153	(1.274)	43382	0.20911	0.351	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.574	7.581	(0.876)	90307	0.61578	1.03(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.992	7.986	(0.925)	8484590	93.7395	157(A)	
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	3990182	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.079	9.082	(1.051)	9722	0.21374	0.359	
	71 n-Nonane	43	9.500	9.468	(1.099)	29065	0.23645	0.397(QM)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.507	9.507	(1.100)	1714	0.14138	0.238	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						(D)
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D
Report Date: 23-Mar-2017 15:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.905	10.915	(1.262)	2359	0.16808	0.282(M)	
79	1,3,5-Trimethylbenzene	105	10.995	10.998	(1.272)	1978	0.14903	0.250(QM)	
80	n-Decane	57	11.378	11.381	(2.028)	55860	0.44954	0.755(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.503	11.510	(1.331)	4551	0.15215	0.256	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	1876868	9.74725	9.75	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.037	12.034	(1.393)	1323	0.15426	0.259	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.162	14.156	(1.639)	11260	0.51632	0.867	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D
Report Date: 23-Mar-2017 15:50

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08034.D
Lab Smp Id: 10381035021
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

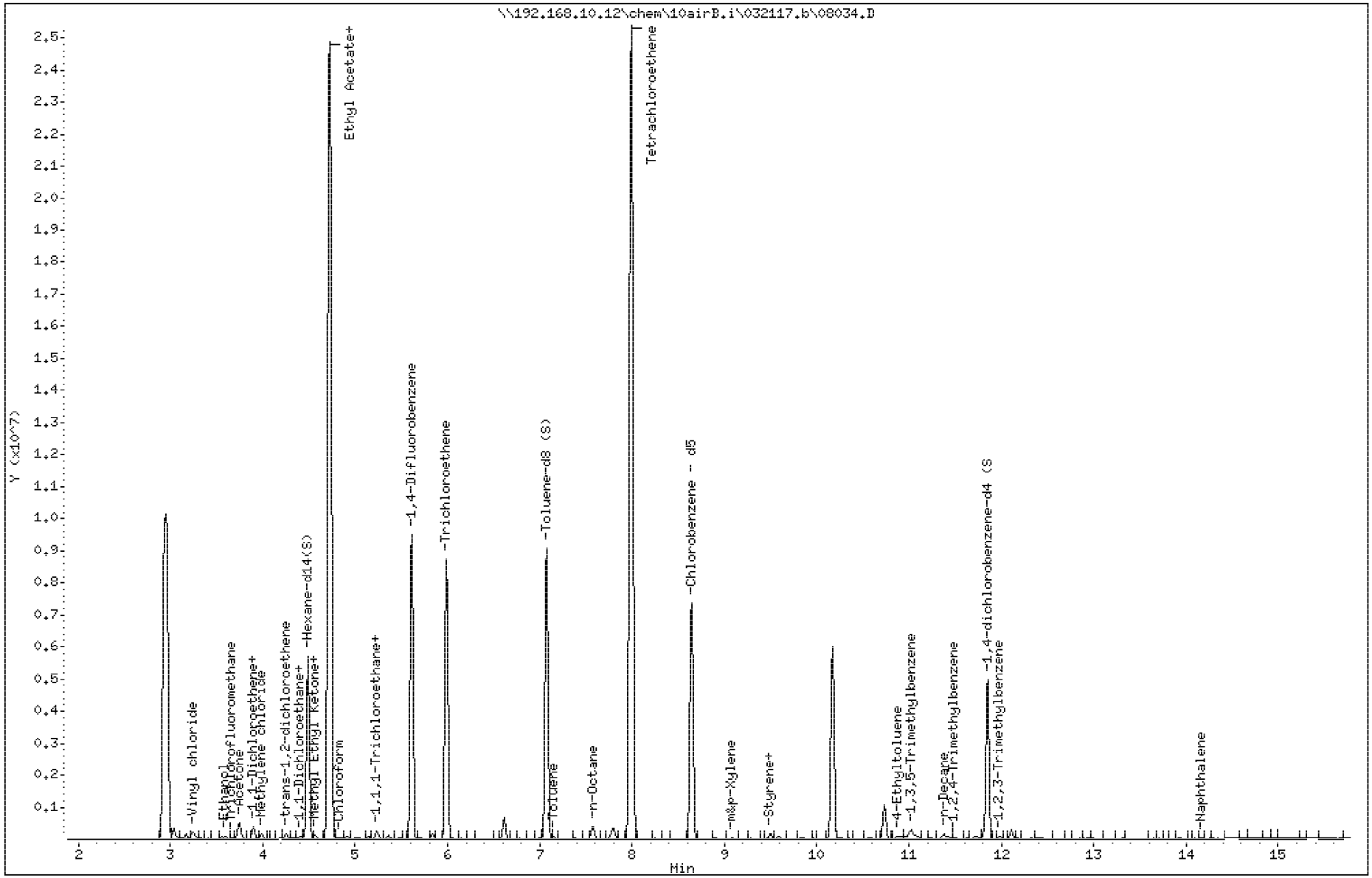
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6202279	-18.83
67 Chlorobenzene - d	5205948	3123569	7288327	3990182	-23.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D
Date : 22-MAR-2017 01:42
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

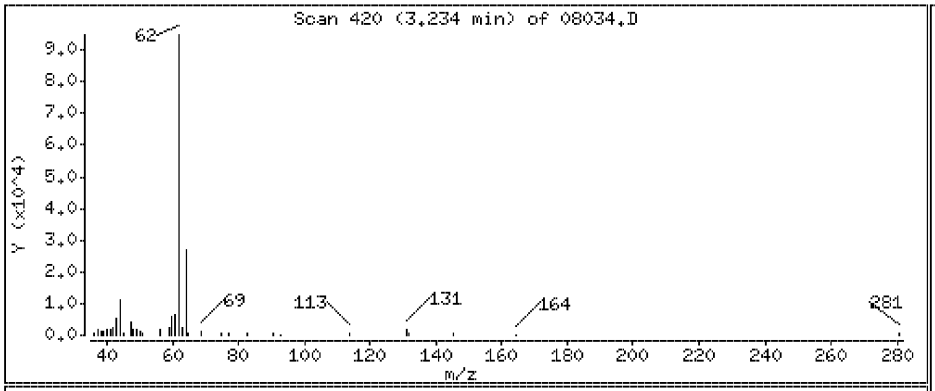
Operator: NCK

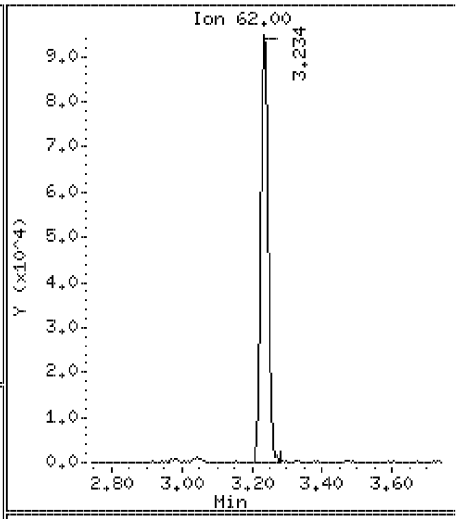
Column phase: J&W DB-5

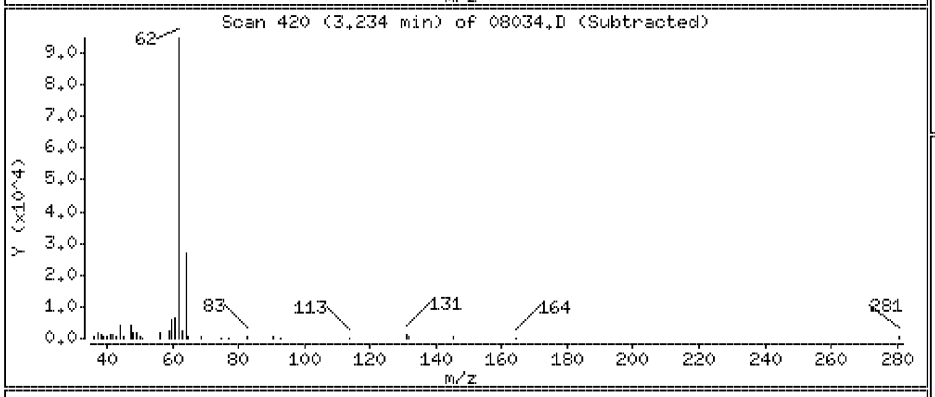
Column diameter: 0.32

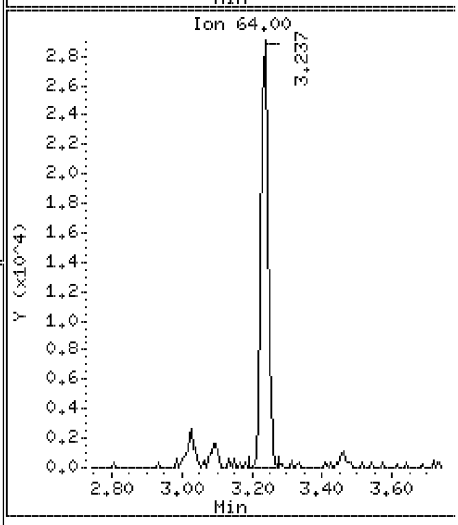
8 Vinyl chloride

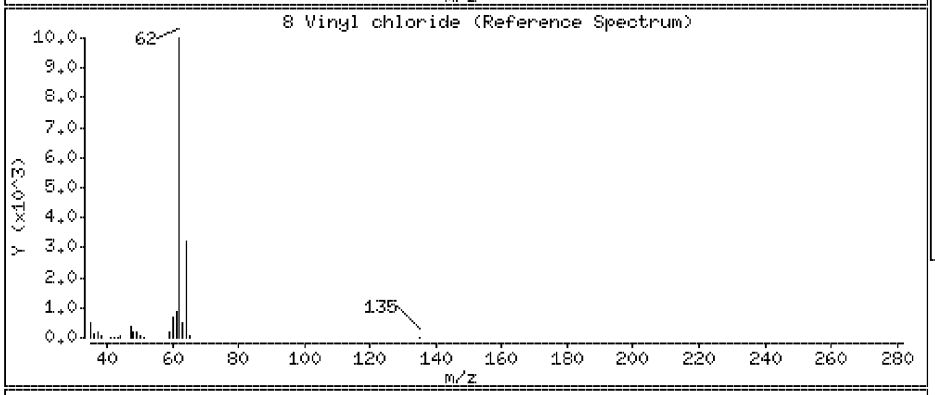
Concentration: 3.15 ppbv

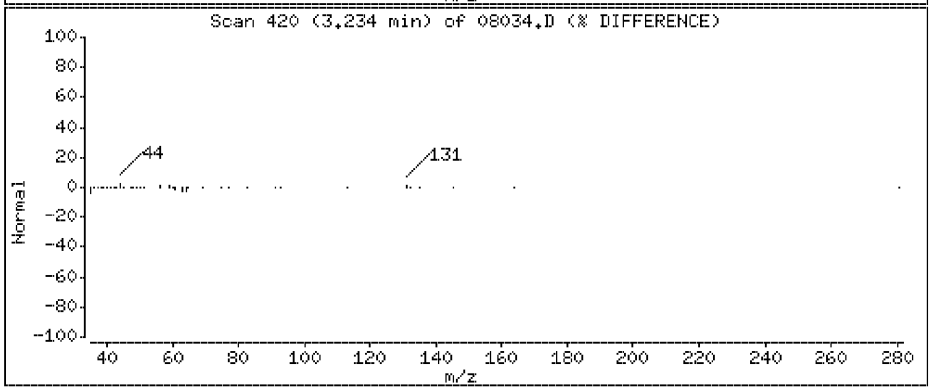












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

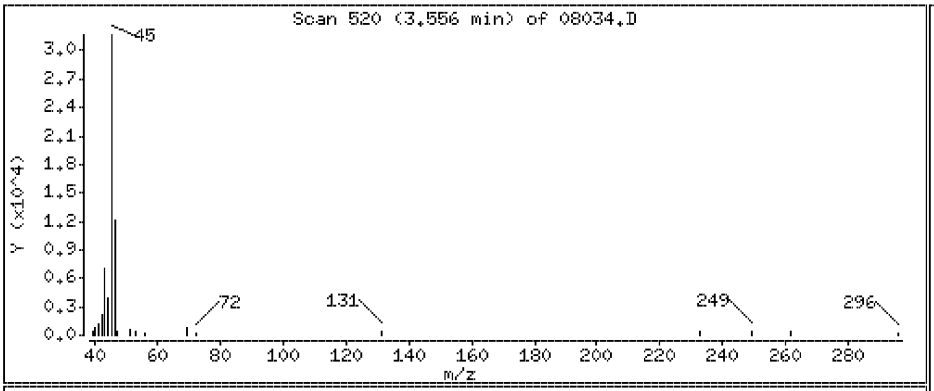
Operator: NCK

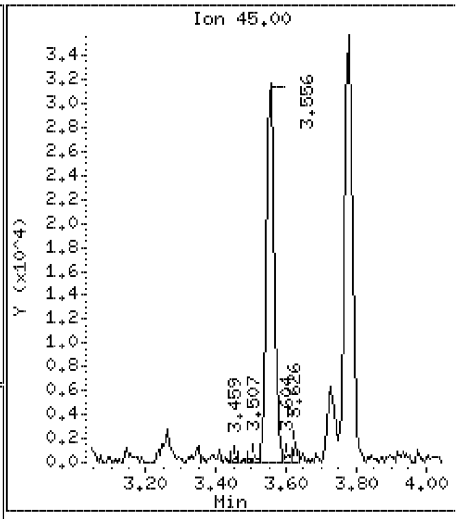
Column phase: J&W DB-5

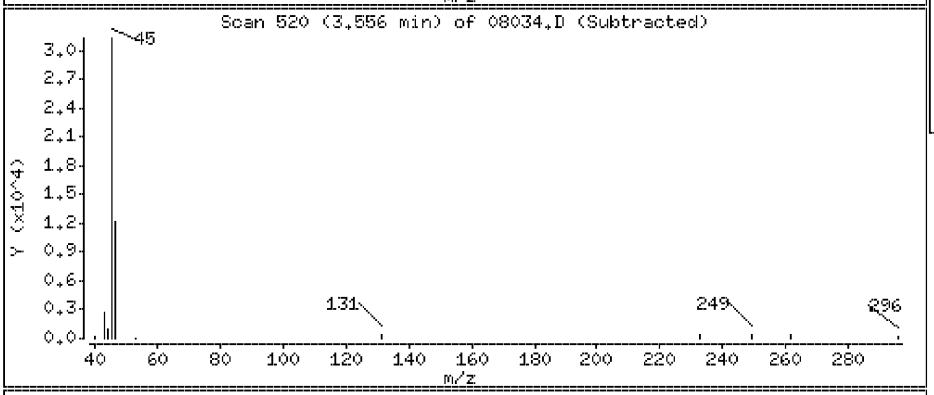
Column diameter: 0.32

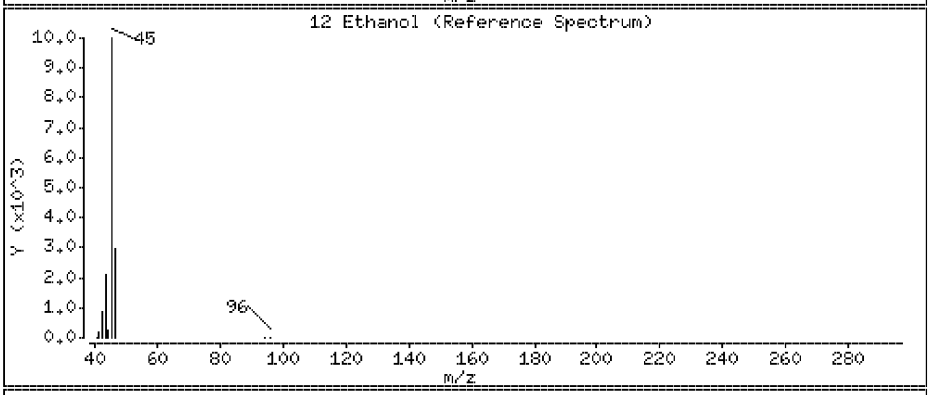
12 Ethanol

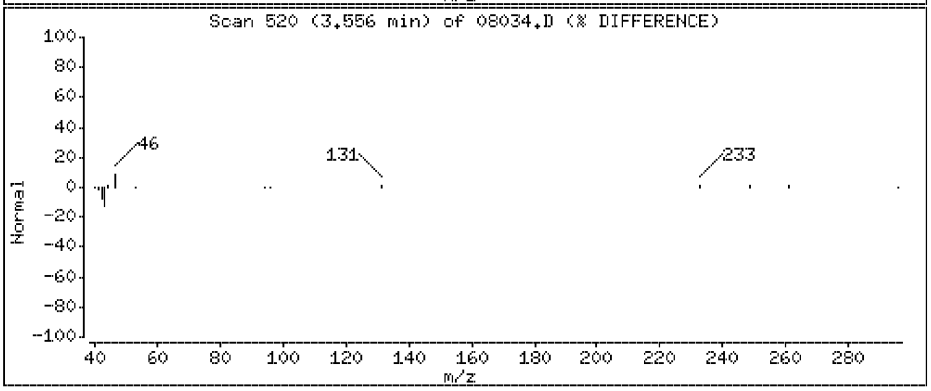
Concentration: 3.46 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

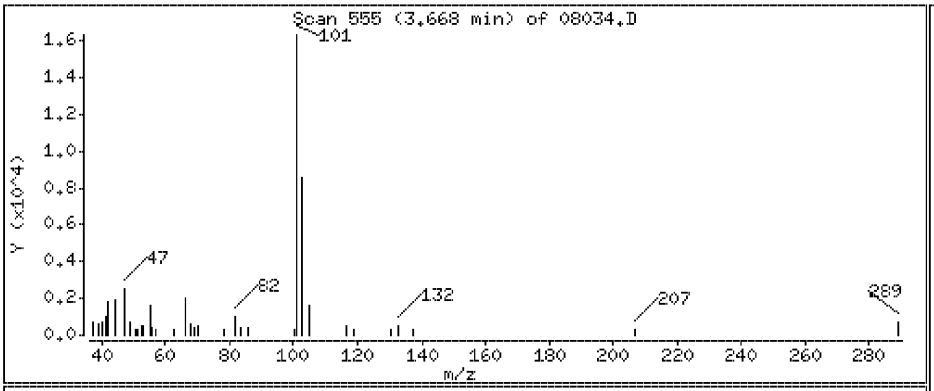
Operator: NCK

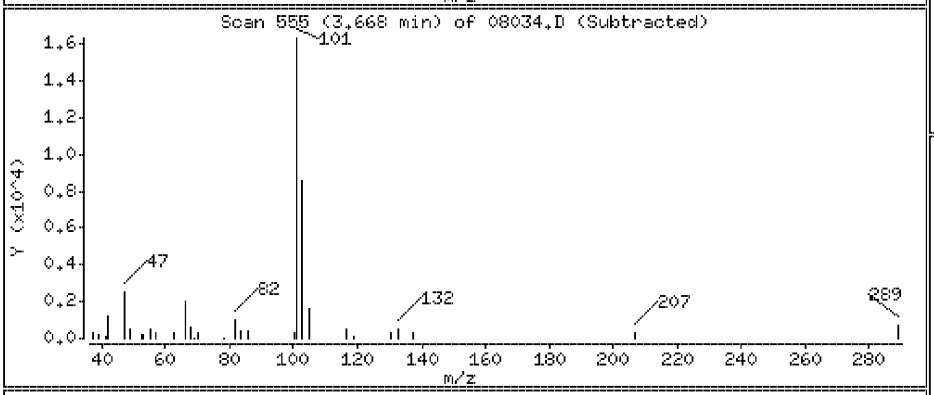
Column phase: J&W DB-5

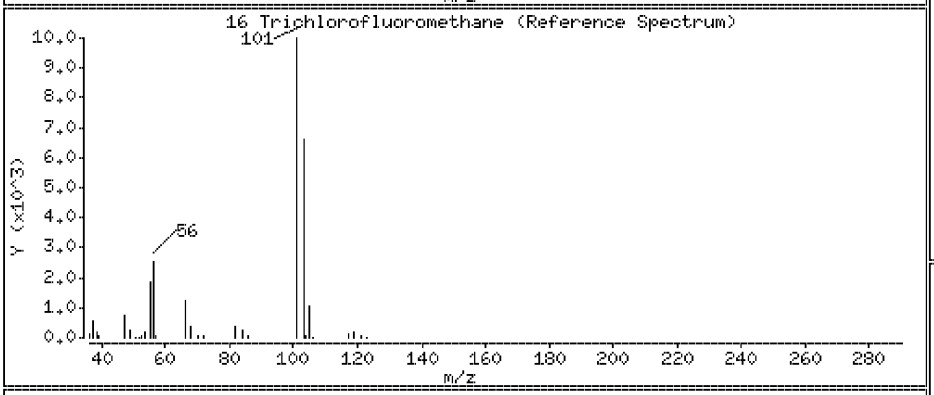
Column diameter: 0.32

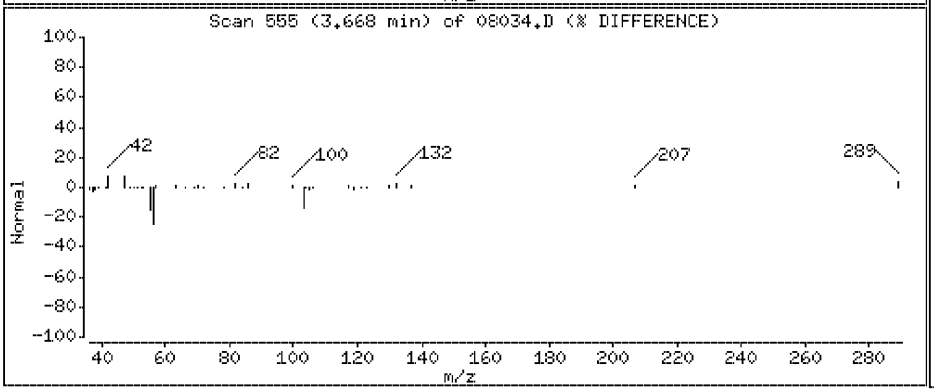
16 Trichlorofluoromethane

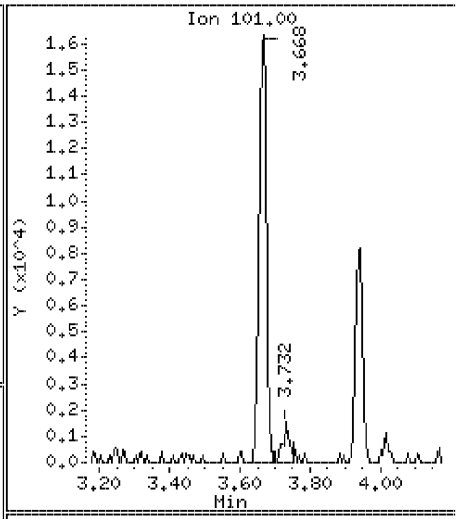
Concentration: 0.298 ppbv

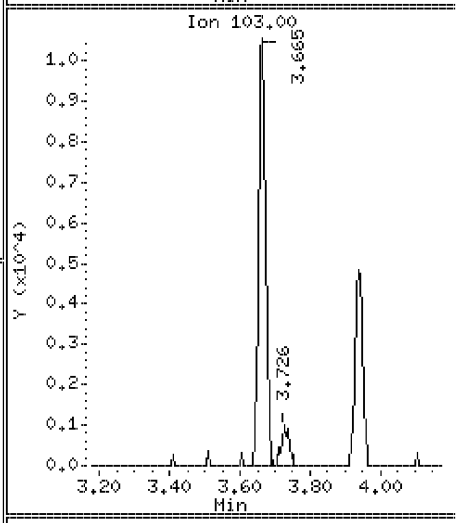


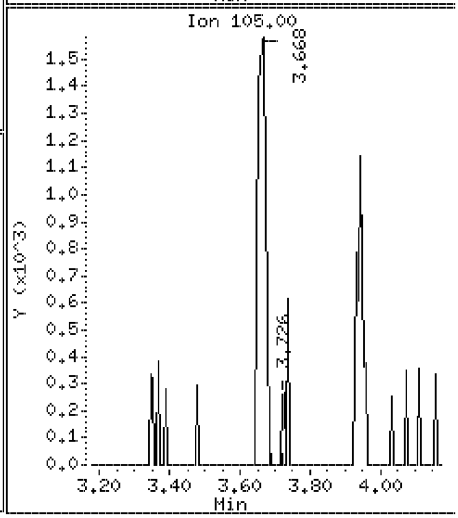












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

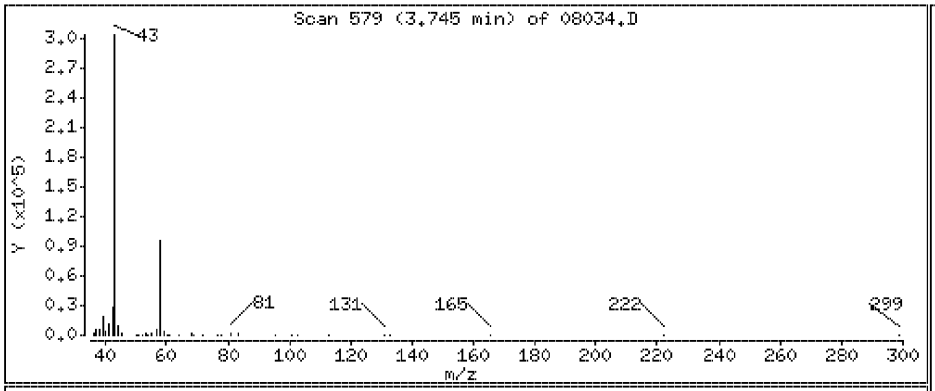
Operator: NCK

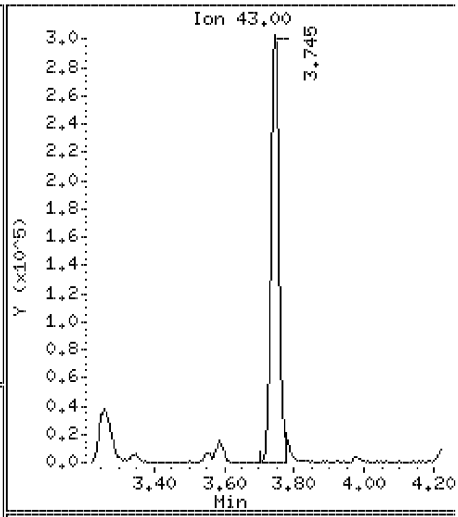
Column phase: J&W DB-5

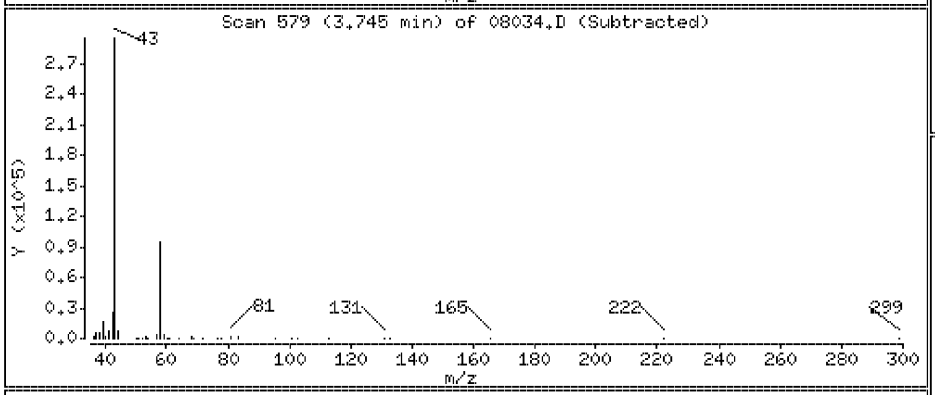
Column diameter: 0.32

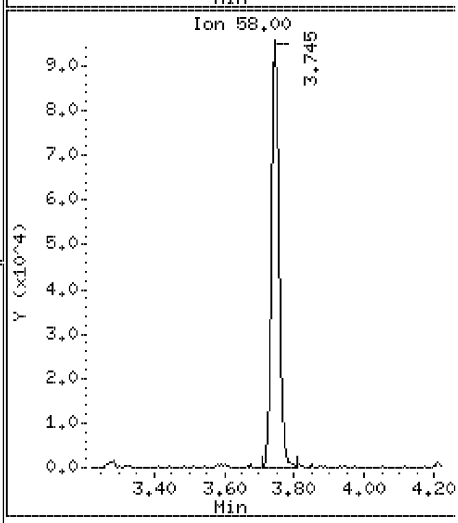
18 Acetone

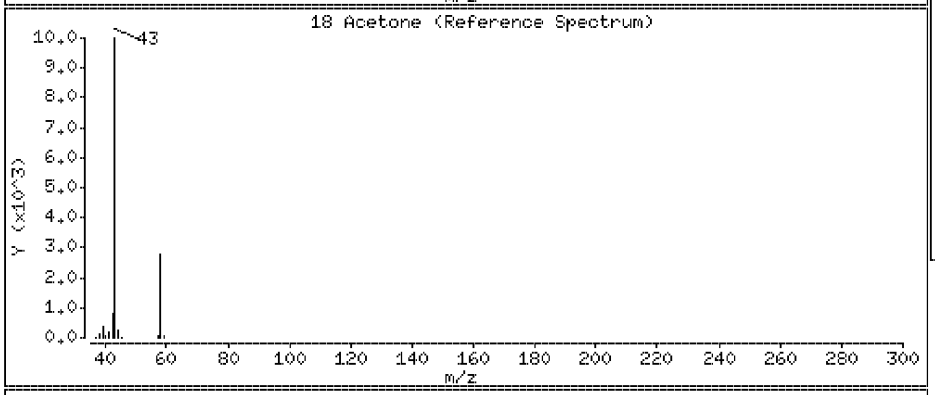
Concentration: 7.40 ppbv

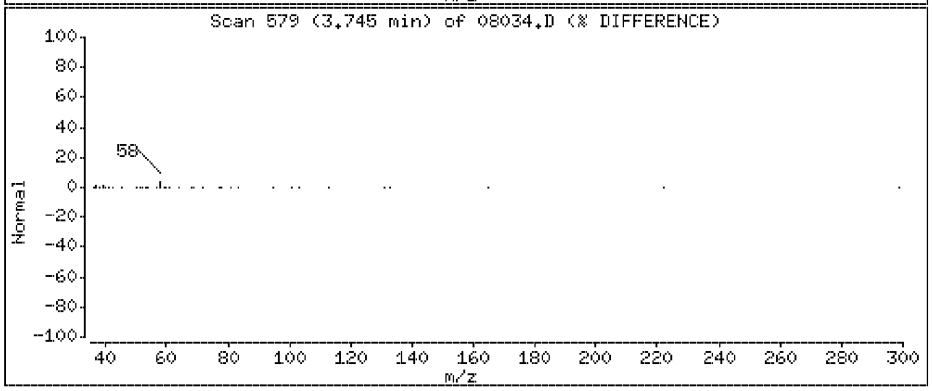












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

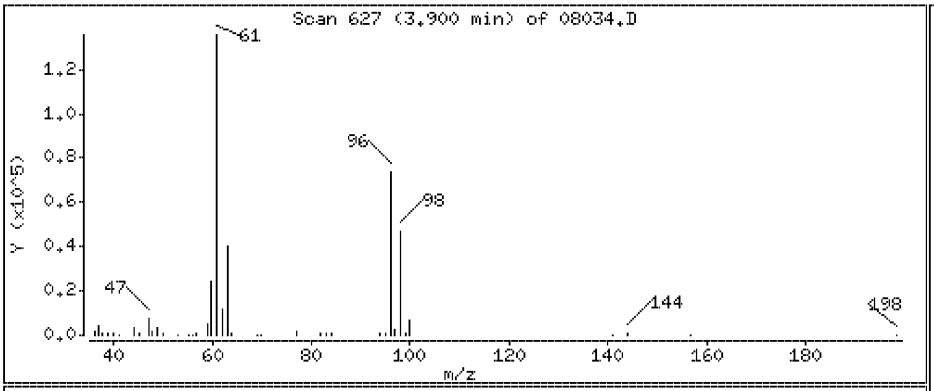
Operator: NCK

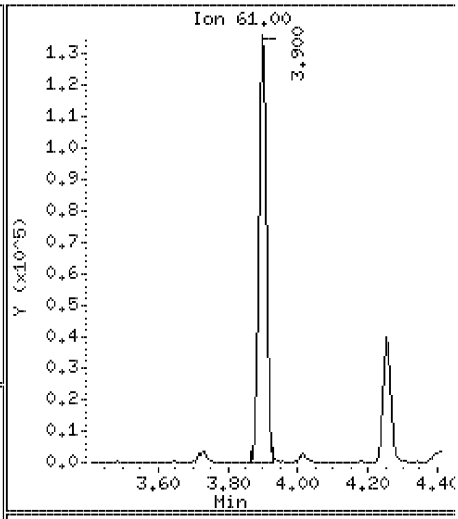
Column phase: J&W DB-5

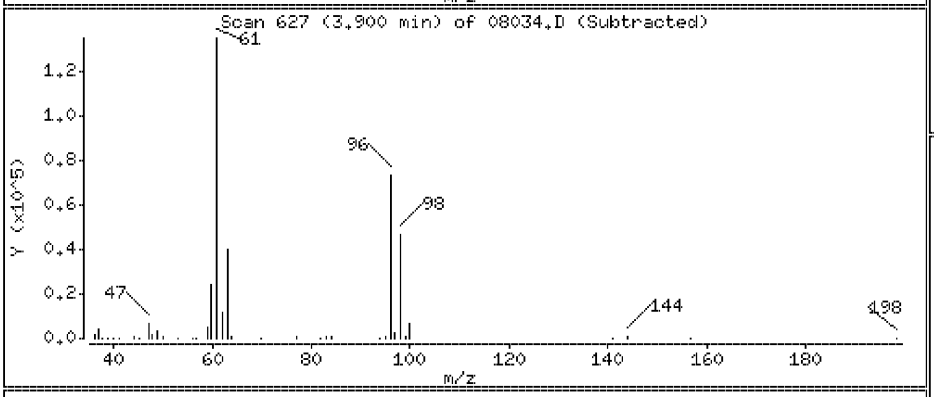
Column diameter: 0.32

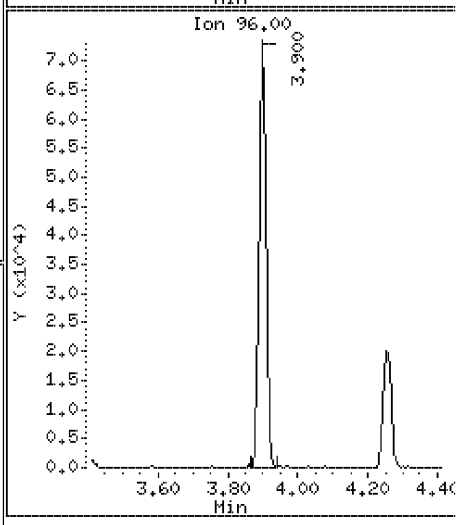
20 1,1-Dichloroethene

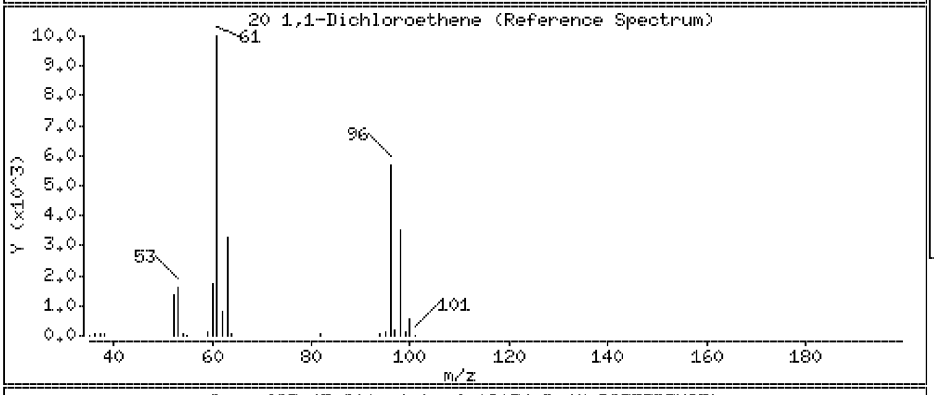
Concentration: 3.50 ppbv

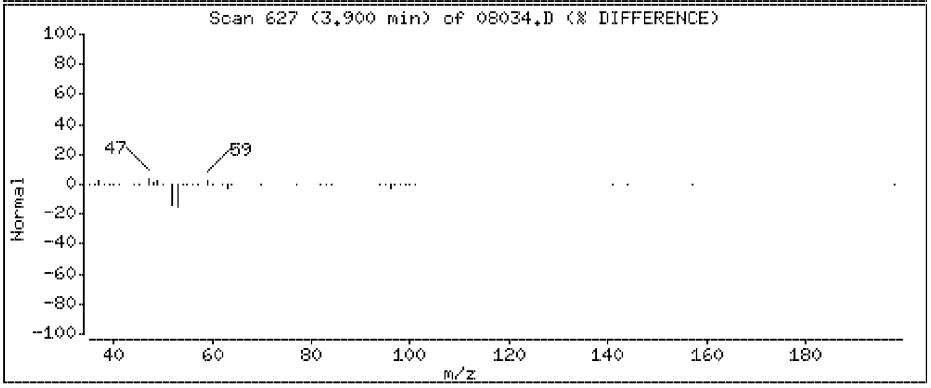












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

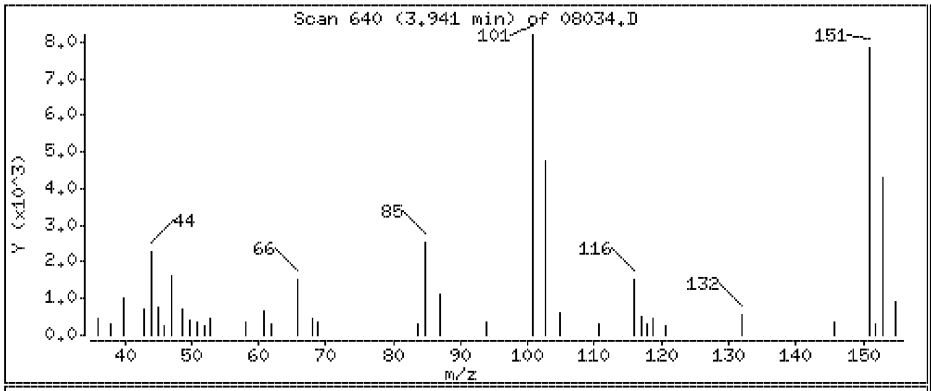
Operator: NCK

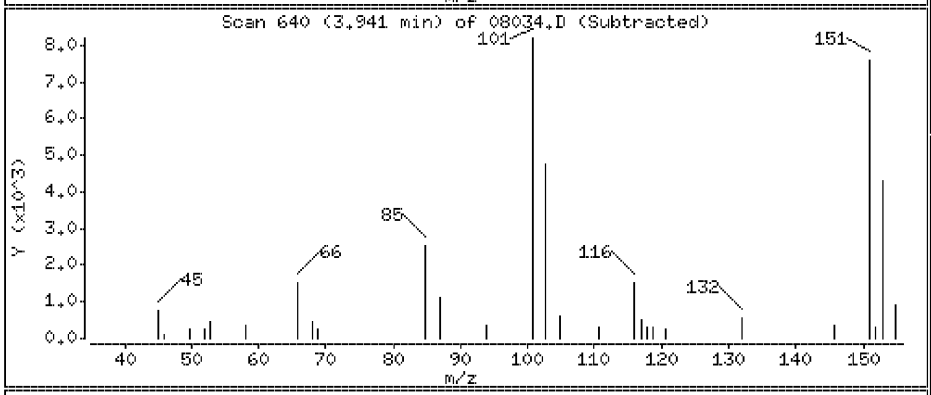
Column phase: J&W DB-5

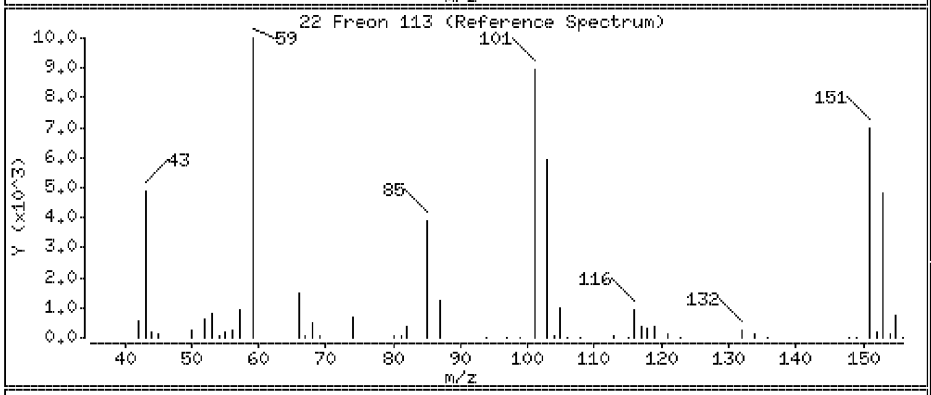
Column diameter: 0.32

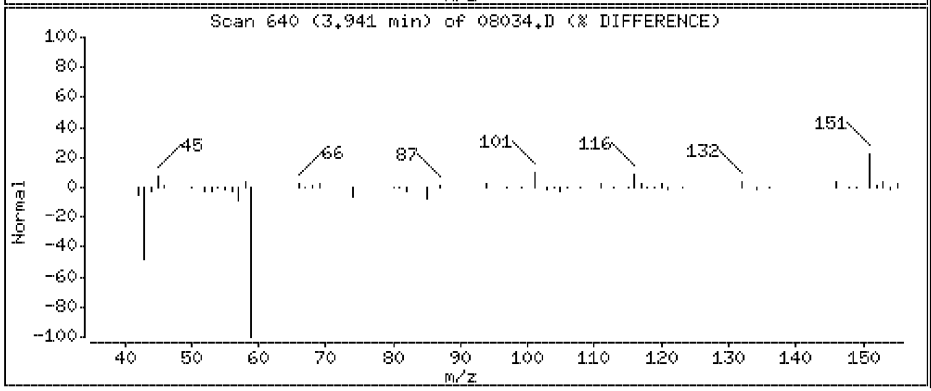
22 Freon 113

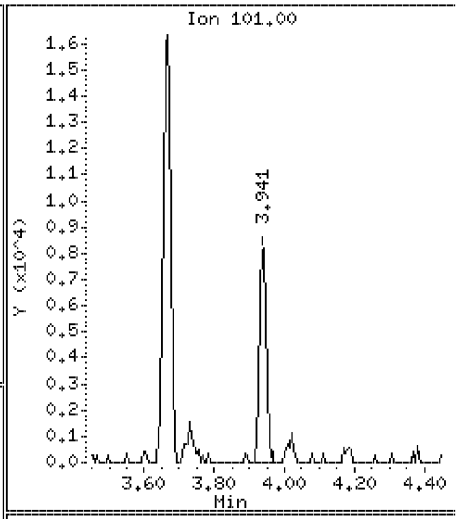
Concentration: 0.187 ppbv

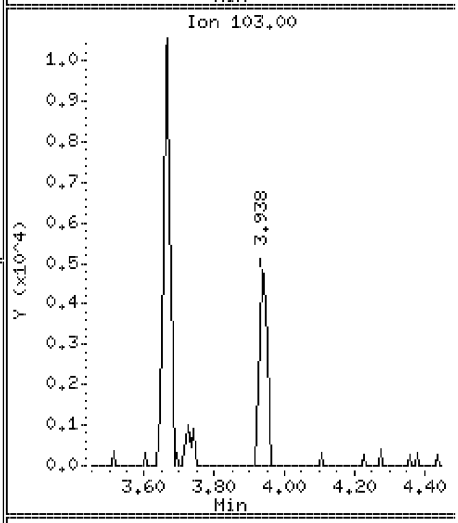


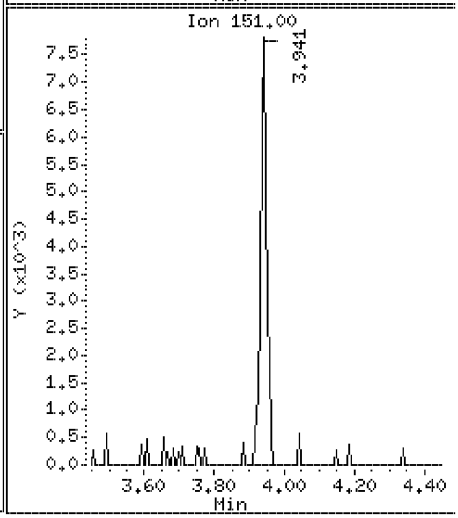












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

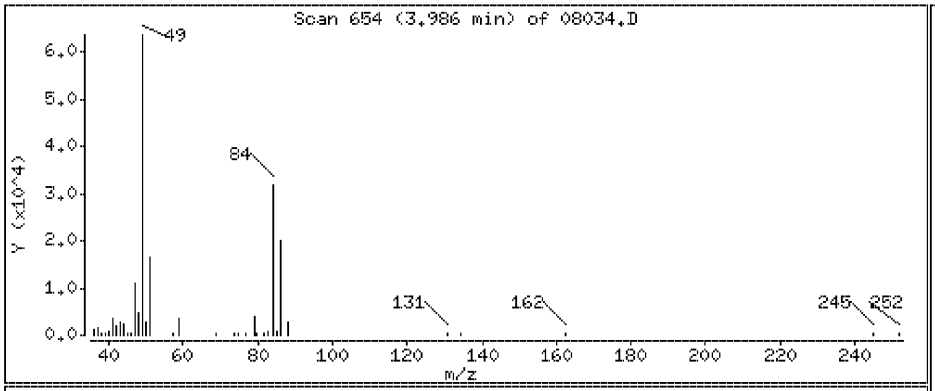
Operator: NCK

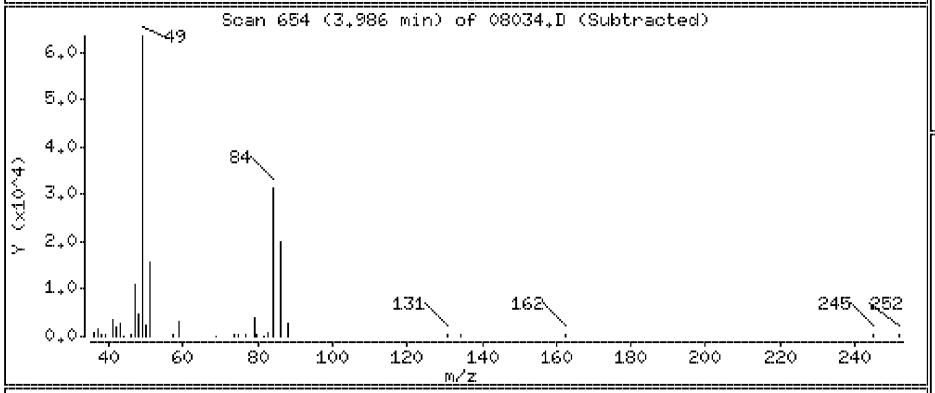
Column phase: J&W DB-5

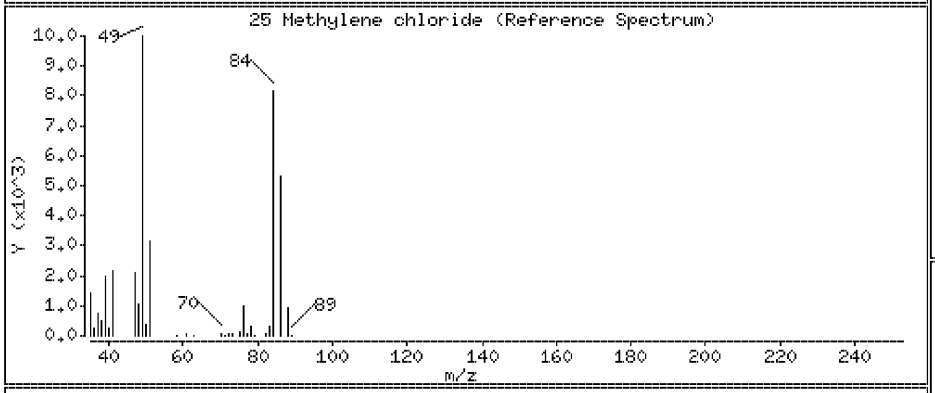
Column diameter: 0.32

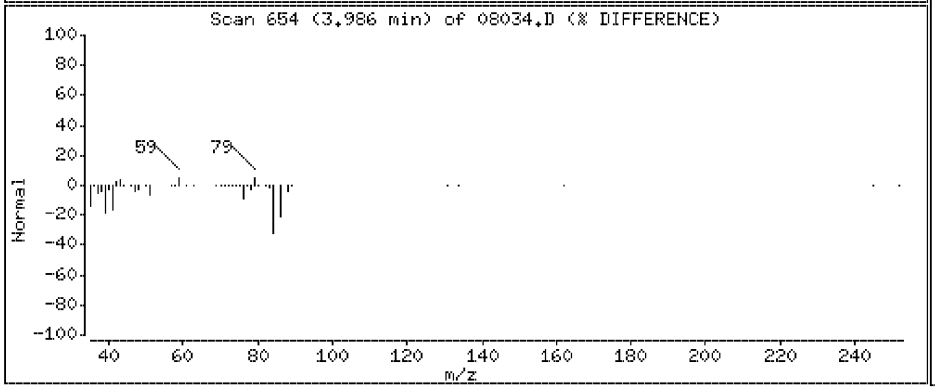
25 Methylene chloride

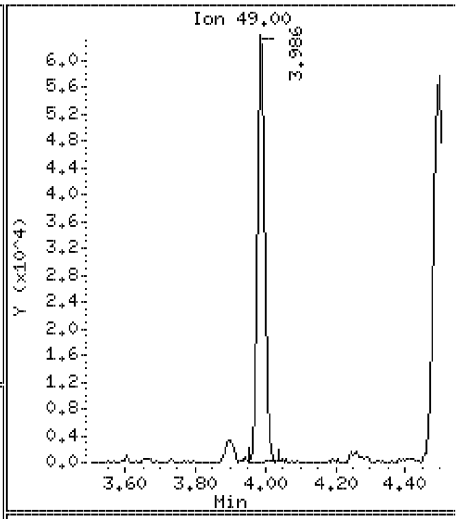
Concentration: 1.75 ppbv

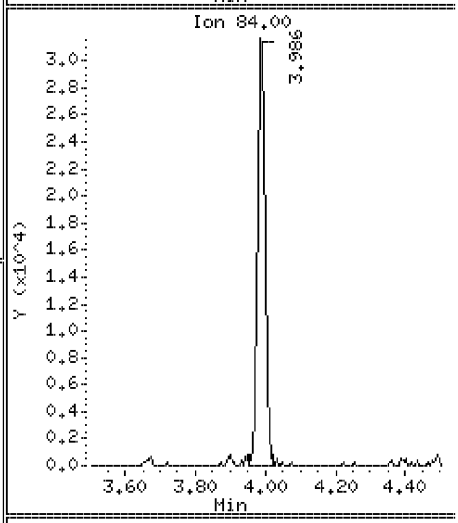


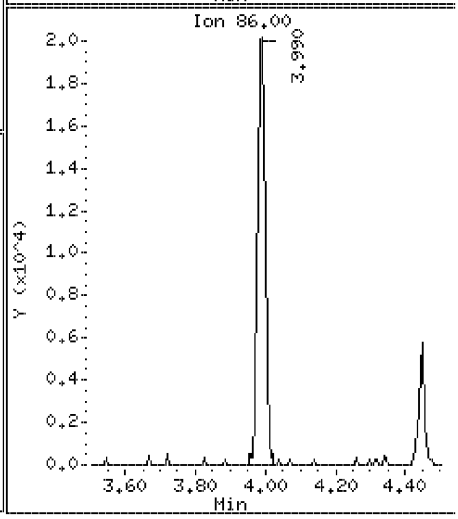












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

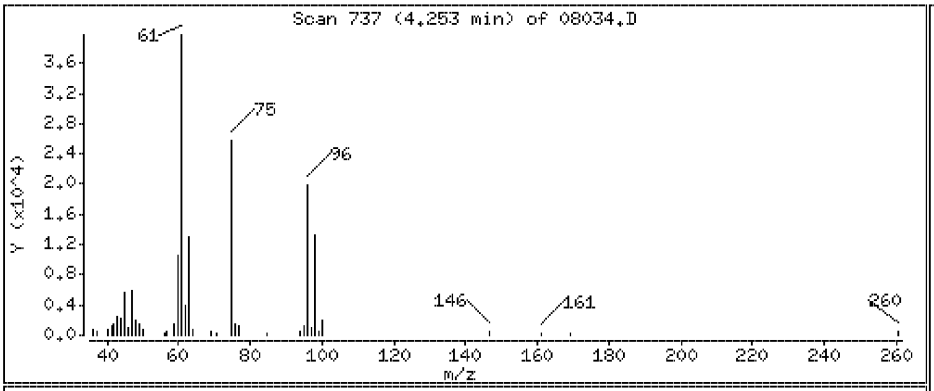
Operator: NCK

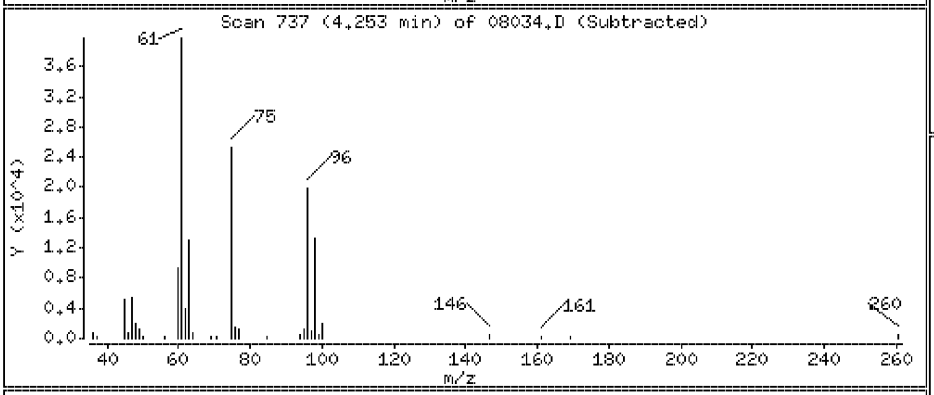
Column phase: J&W DB-5

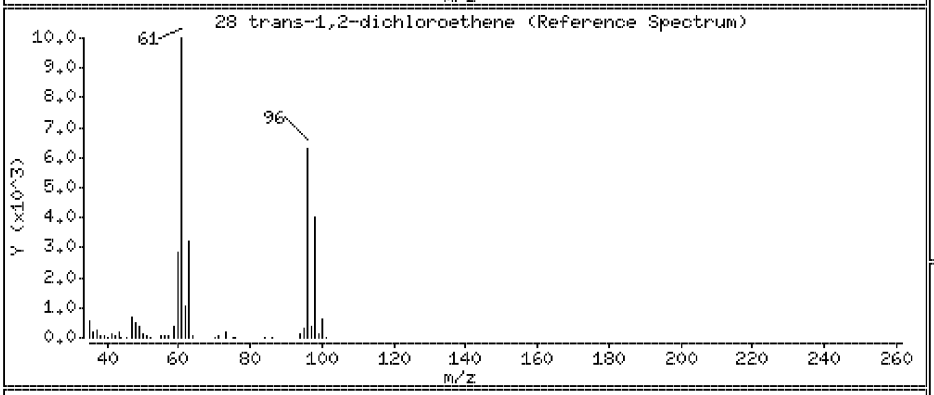
Column diameter: 0.32

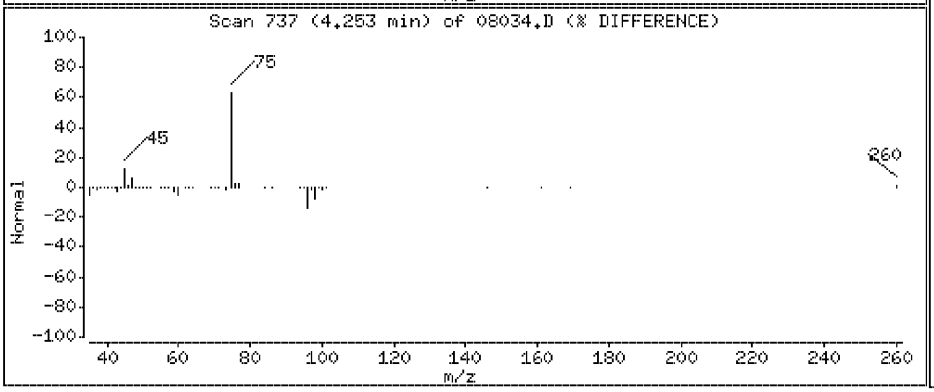
28 trans-1,2-dichloroethene

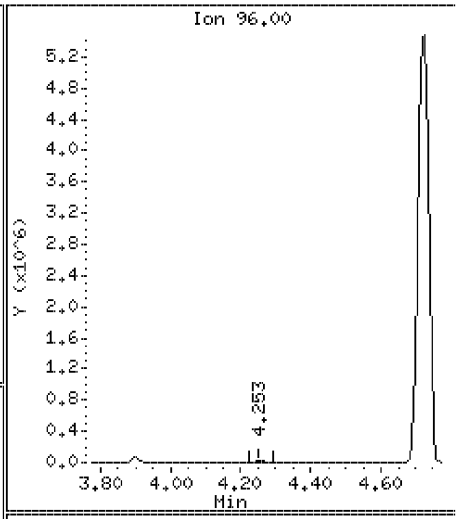
Concentration: 1.19 ppbv

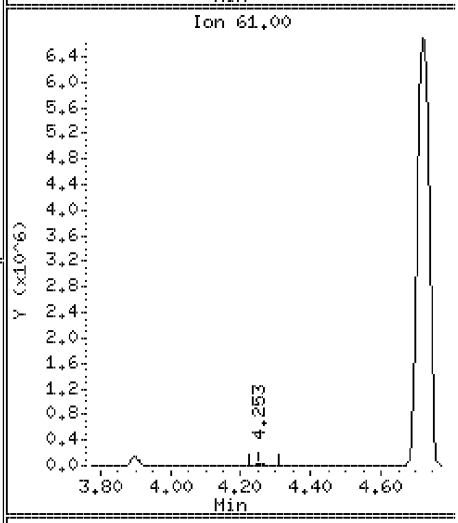


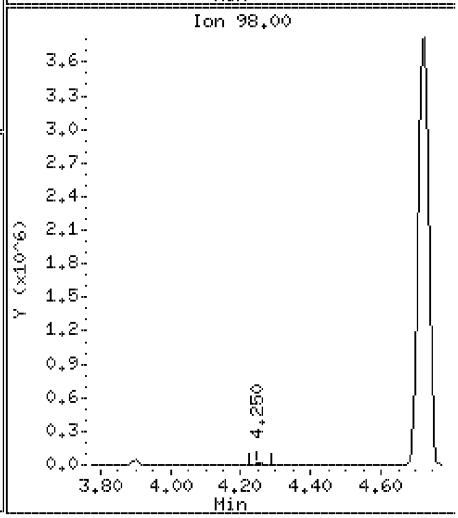












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

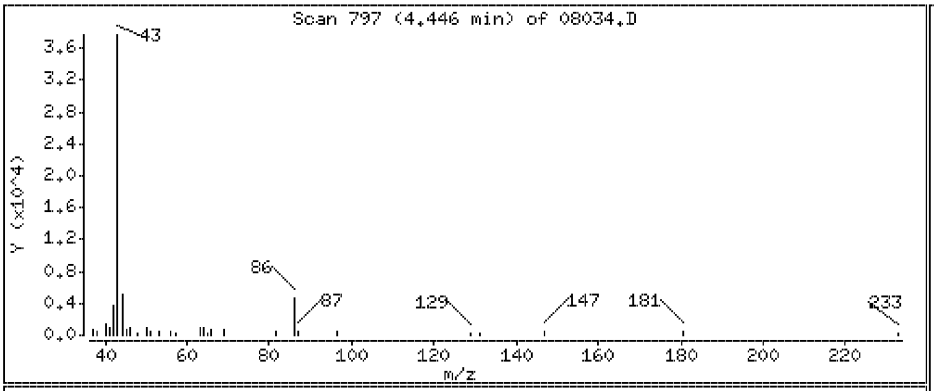
Operator: NCK

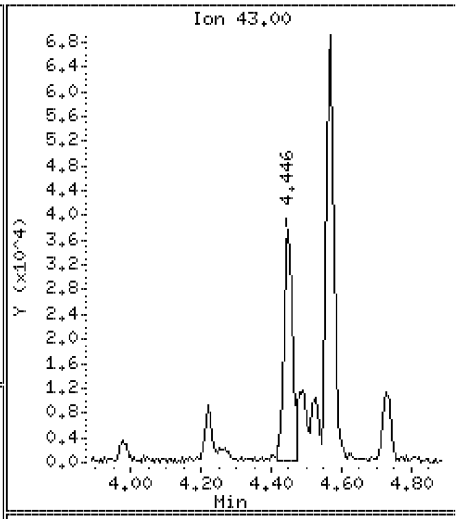
Column phase: J&W DB-5

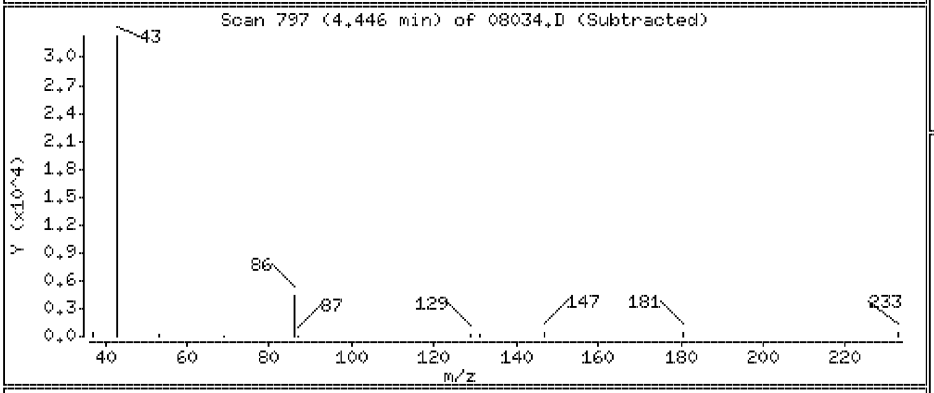
Column diameter: 0.32

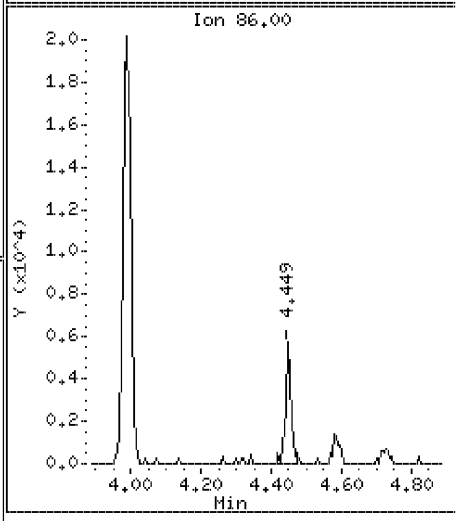
30 Vinyl Acetate

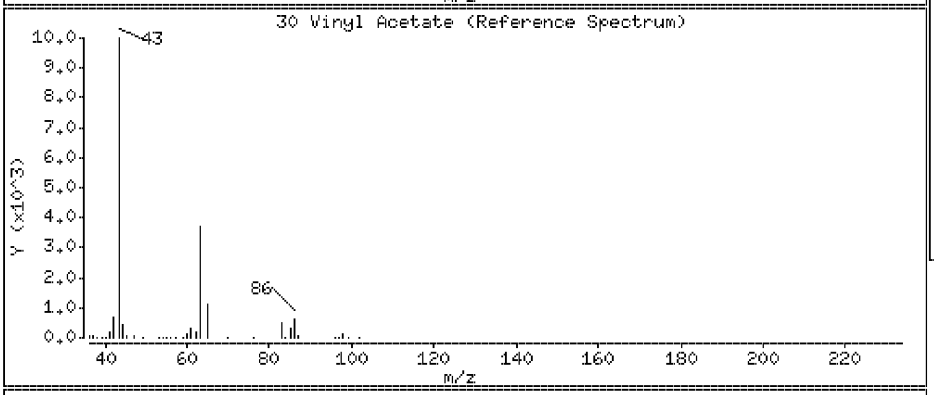
Concentration: 0.670 ppbv

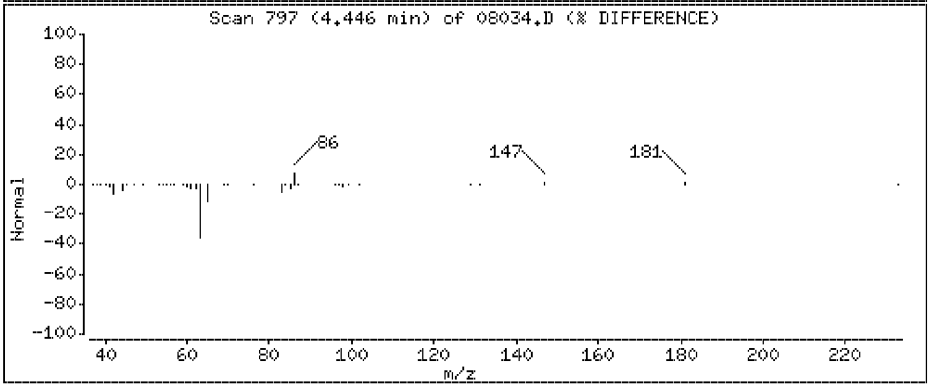












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

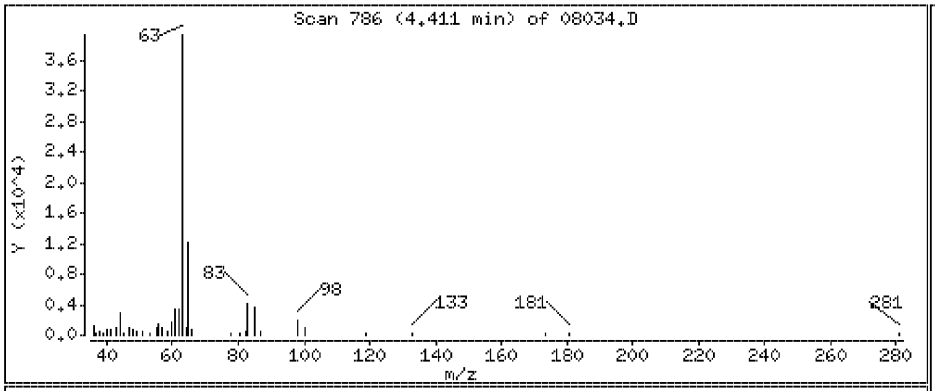
Operator: NCK

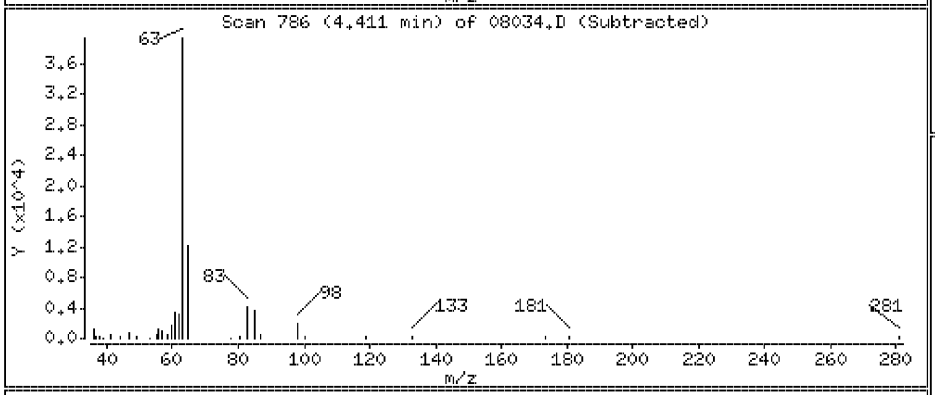
Column phase: J&W DB-5

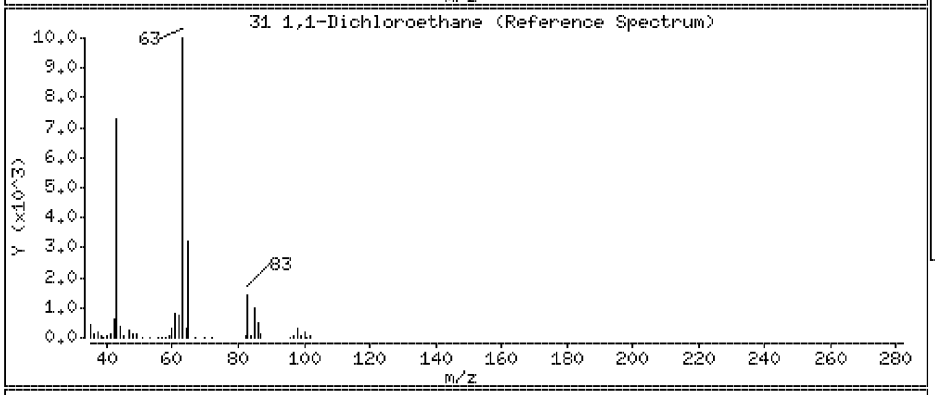
Column diameter: 0.32

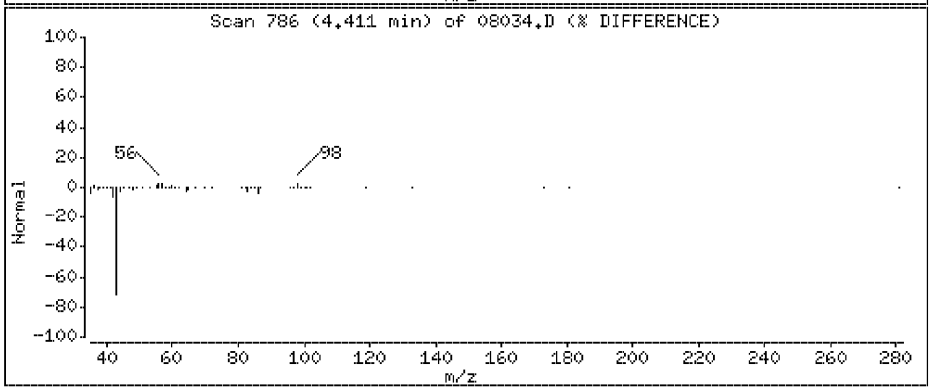
31 1,1-Dichloroethane

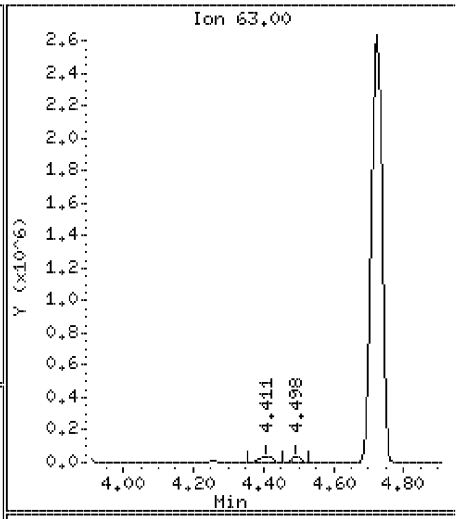
Concentration: 1.66 ppbv

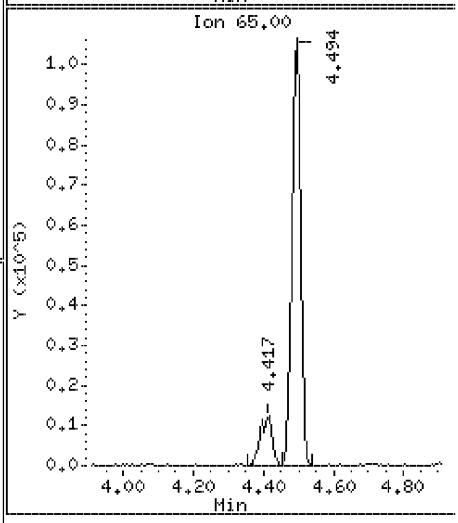












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

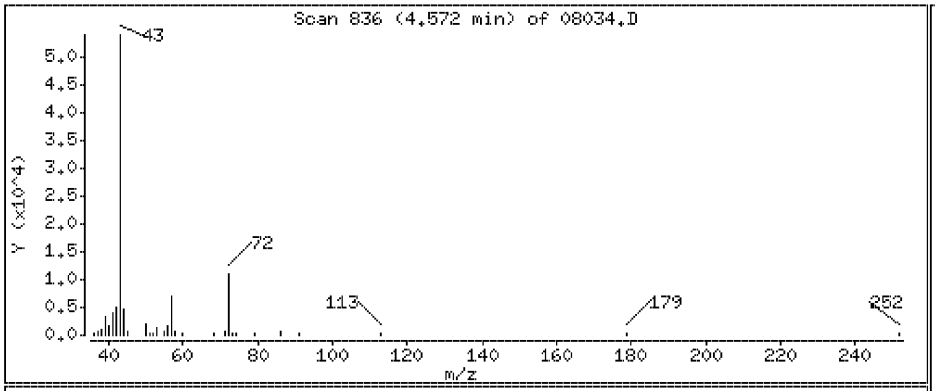
Operator: NCK

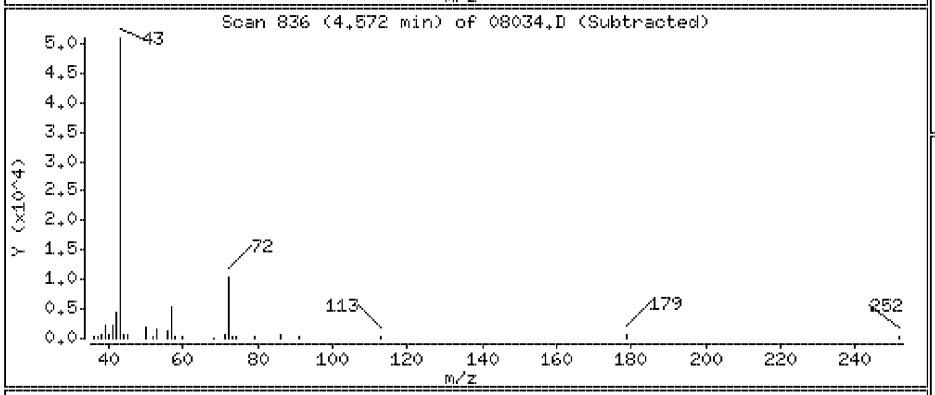
Column phase: J&W DB-5

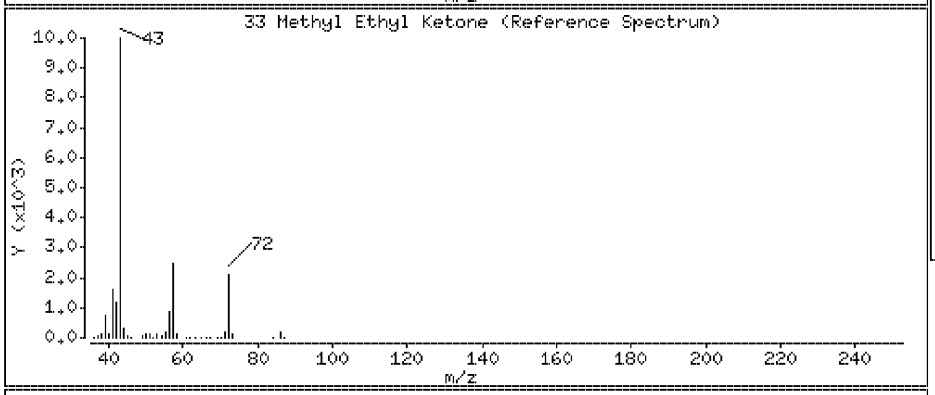
Column diameter: 0.32

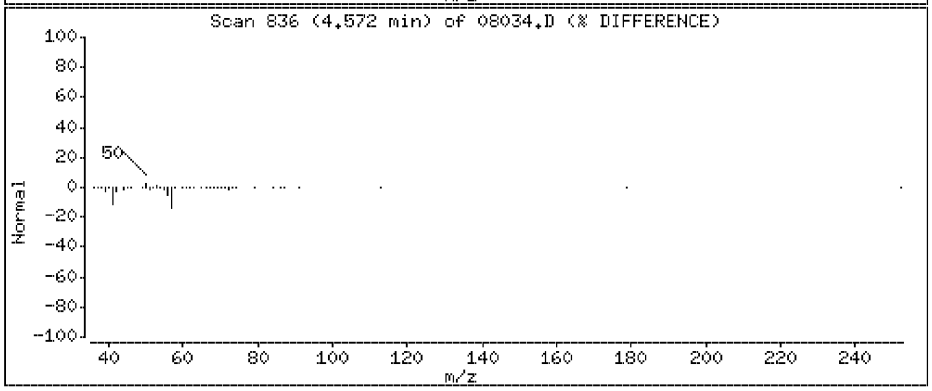
33 Methyl Ethyl Ketone

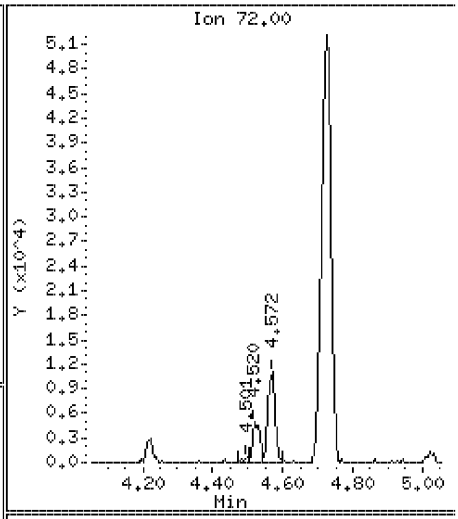
Concentration: 1.06 ppbv

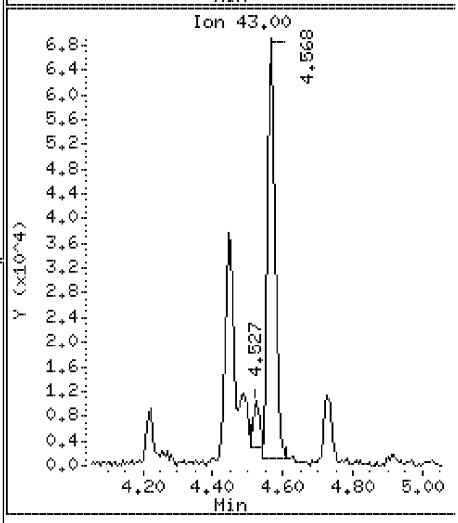












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

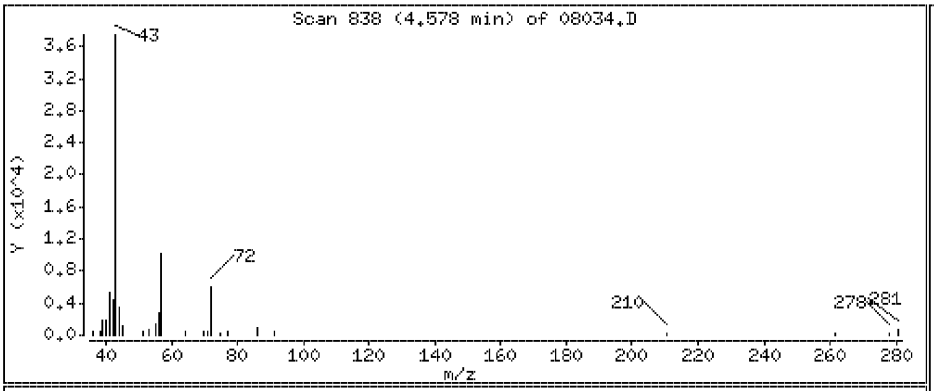
Operator: NCK

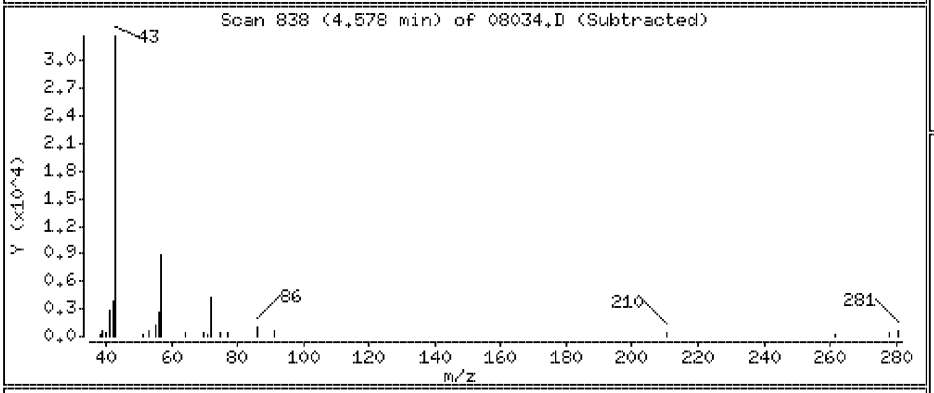
Column phase: J&W DB-5

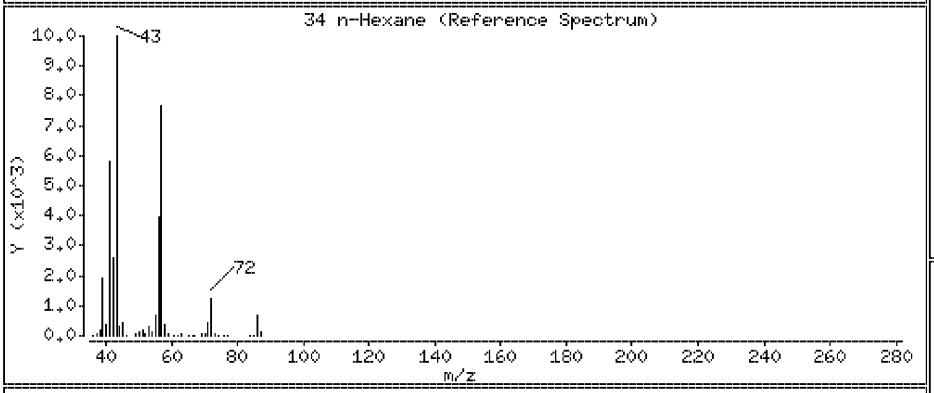
Column diameter: 0.32

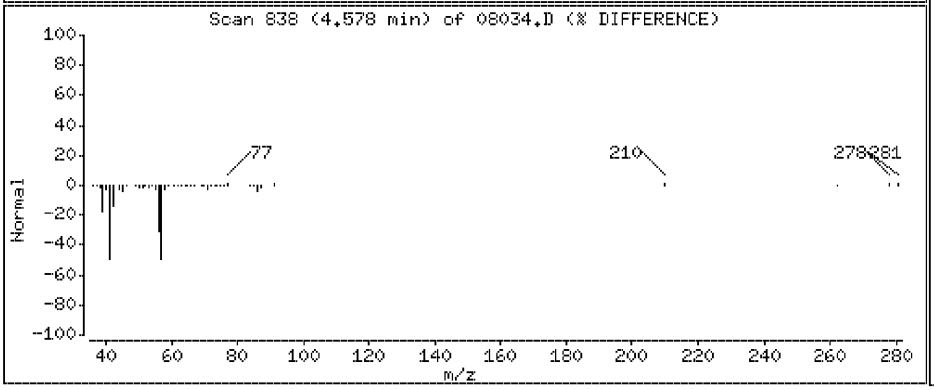
34 n-Hexane

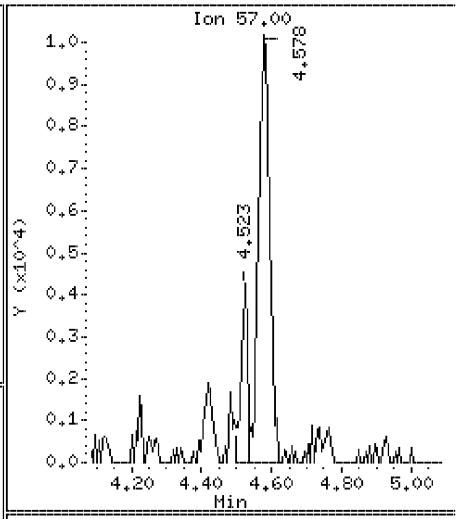
Concentration: 0.339 ppbv

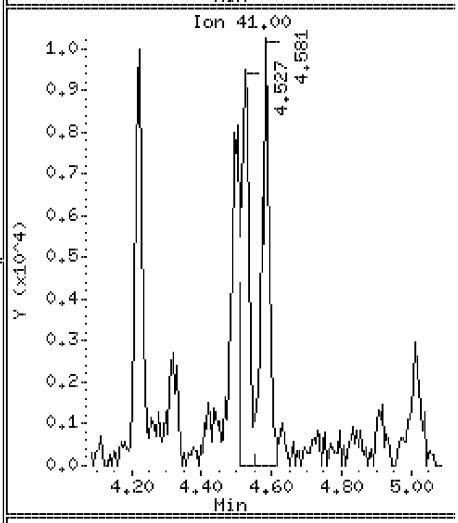


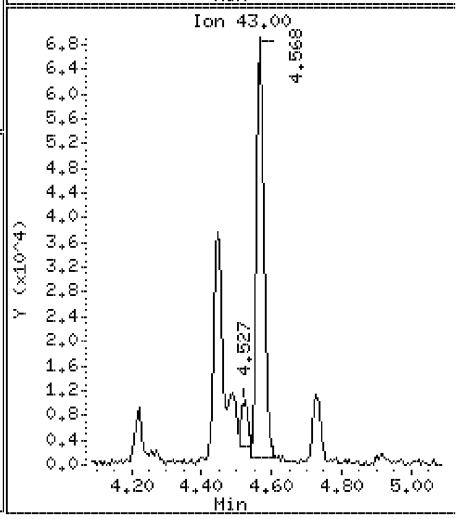












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

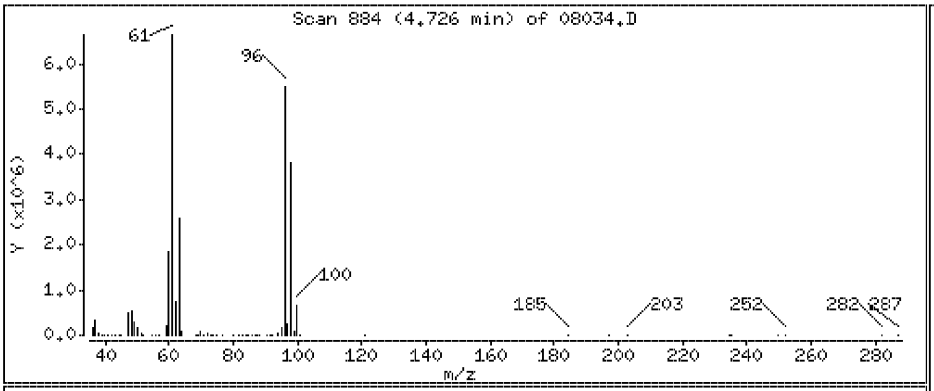
Operator: NCK

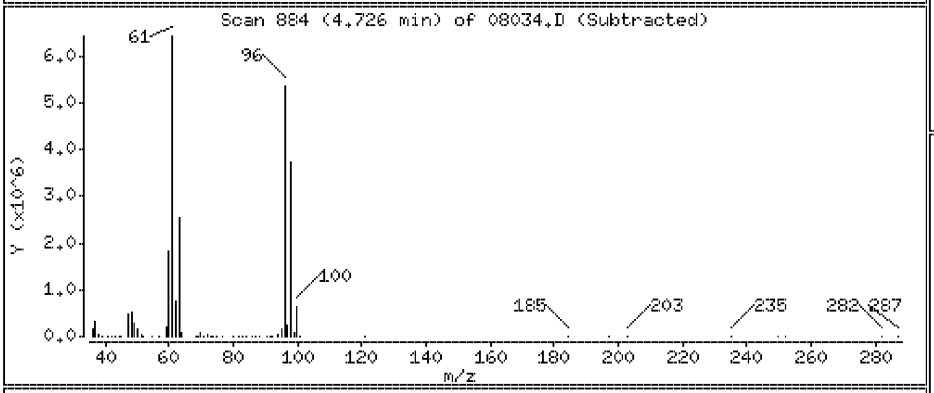
Column phase: J&W DB-5

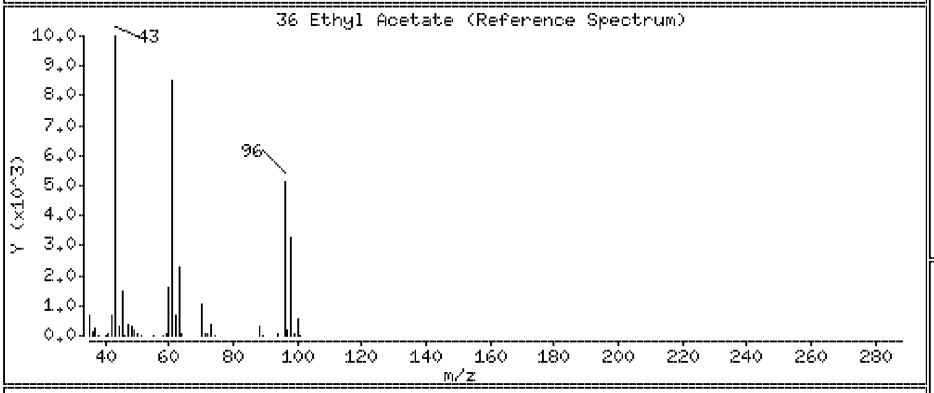
Column diameter: 0.32

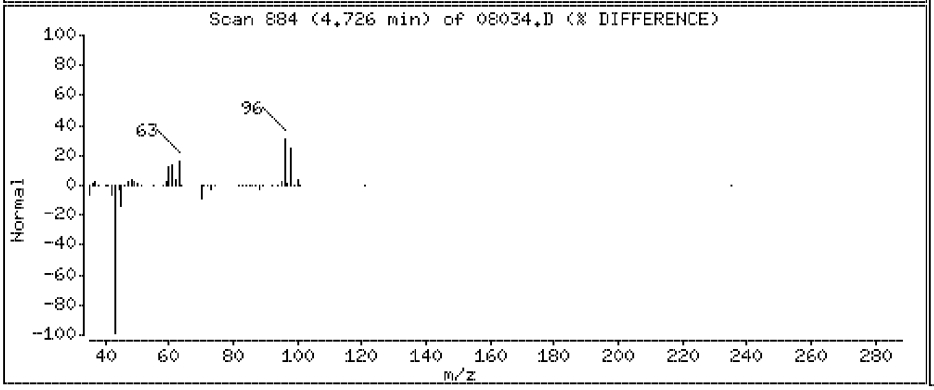
36 Ethyl Acetate

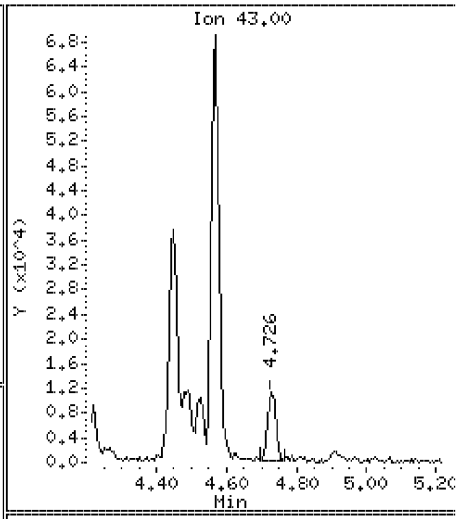
Concentration: 0.188 ppbv

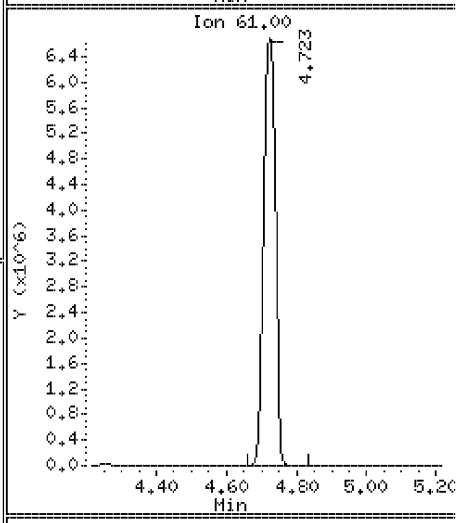


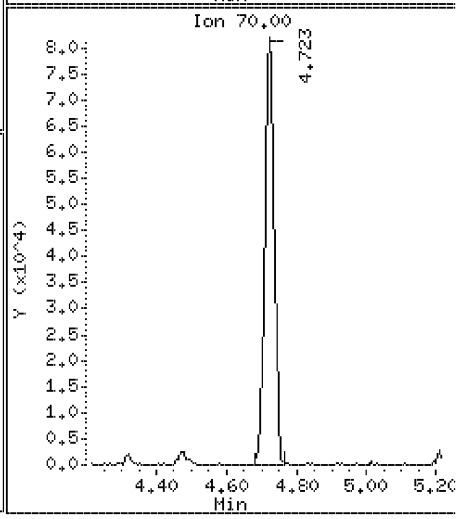












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

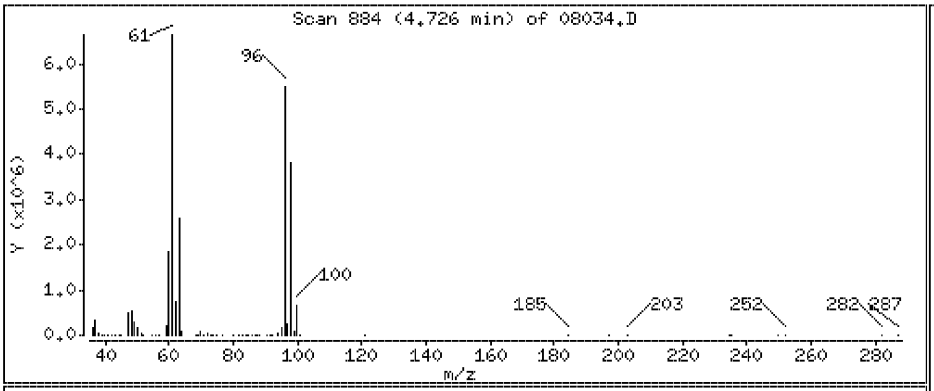
Operator: NCK

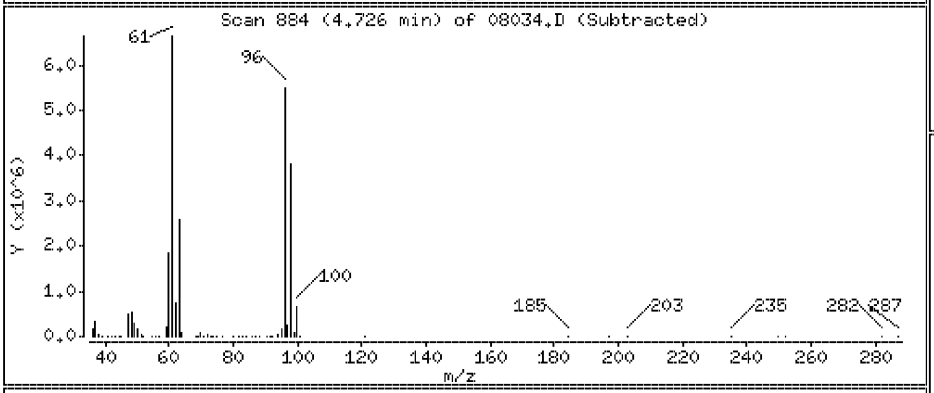
Column phase: J&W DB-5

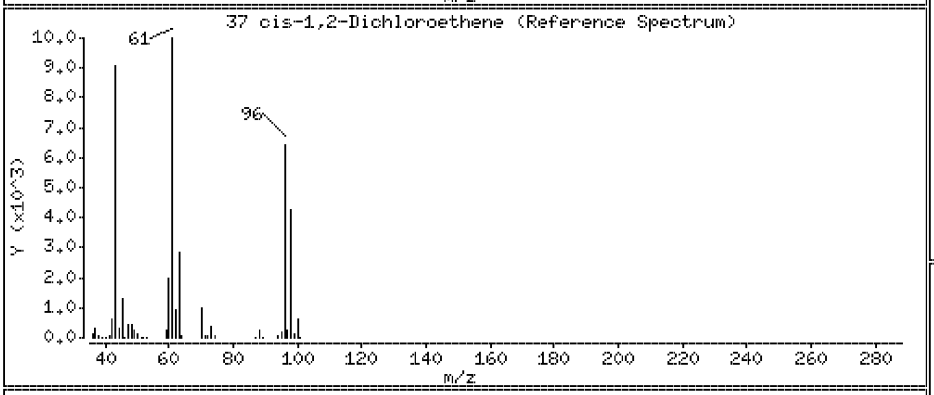
Column diameter: 0.32

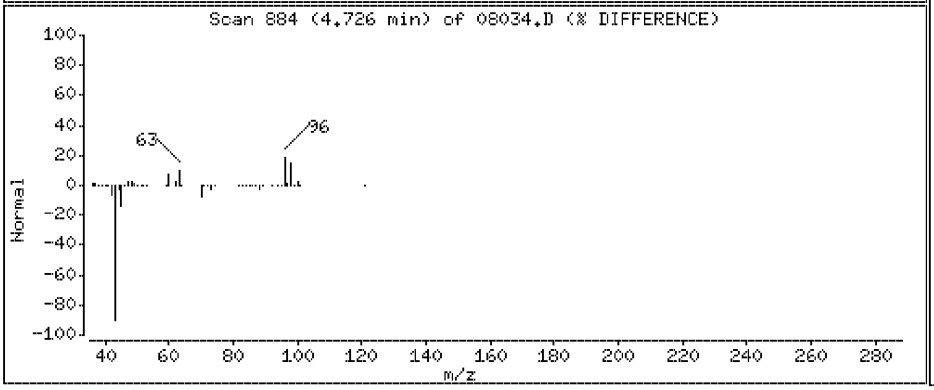
37 cis-1,2-Dichloroethene

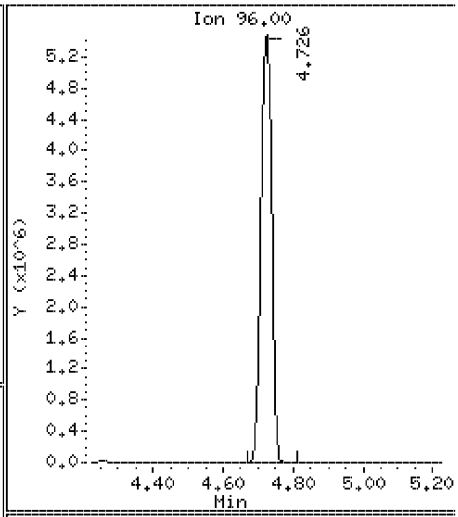
Concentration: 352 ppbv

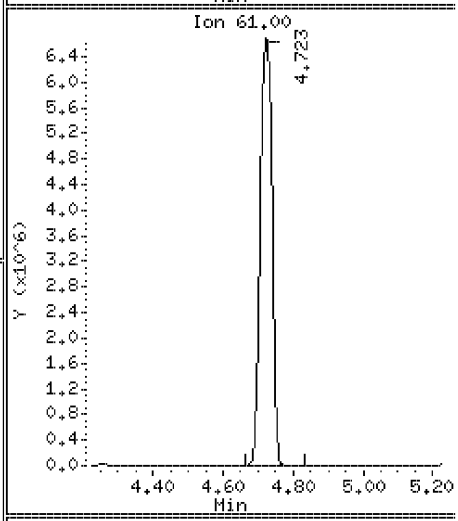


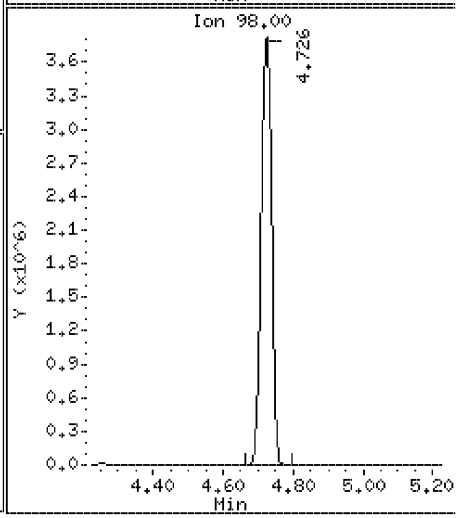












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

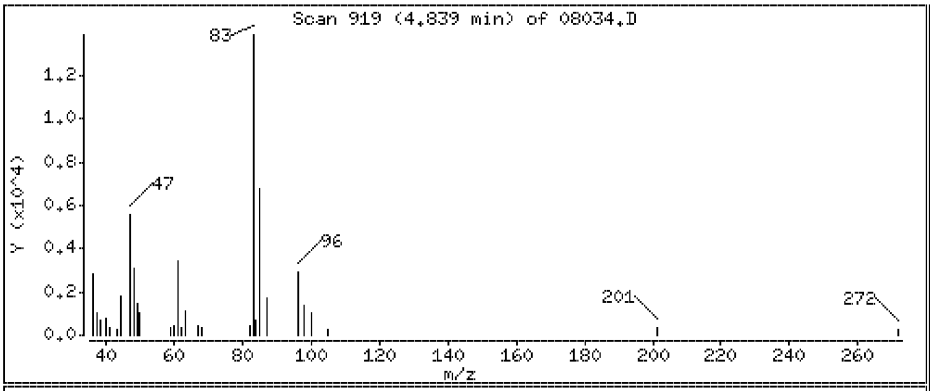
Operator: NCK

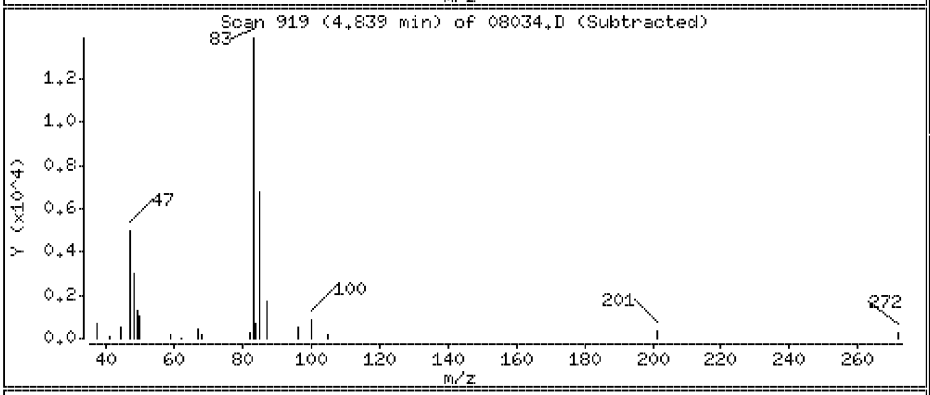
Column phase: J&W DB-5

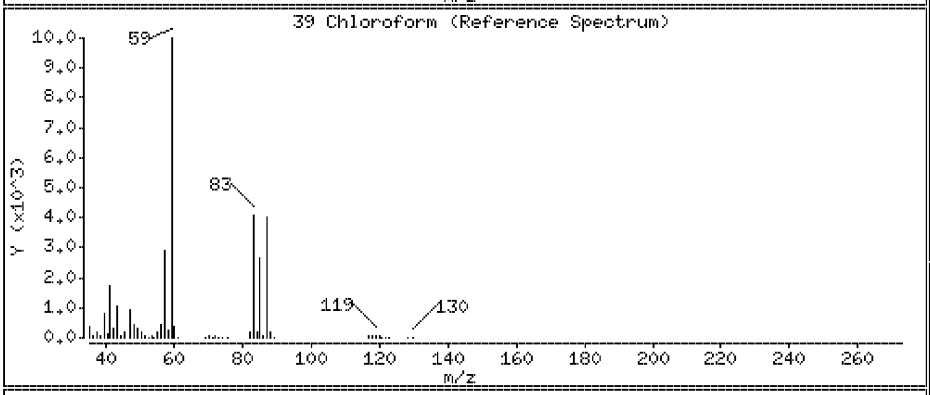
Column diameter: 0.32

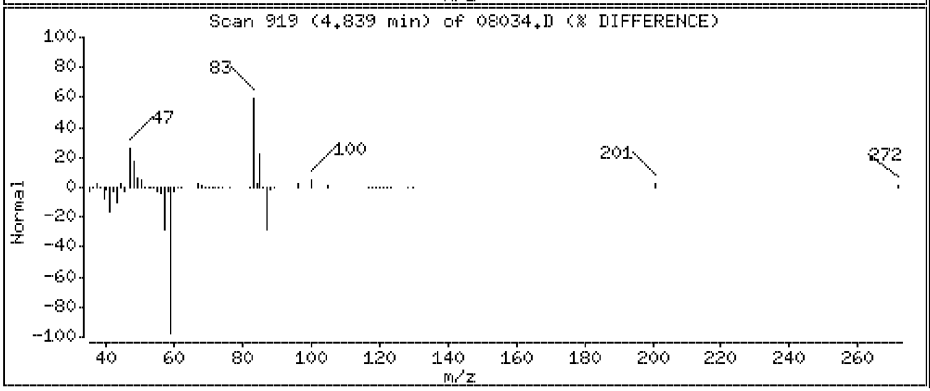
39 Chloroform

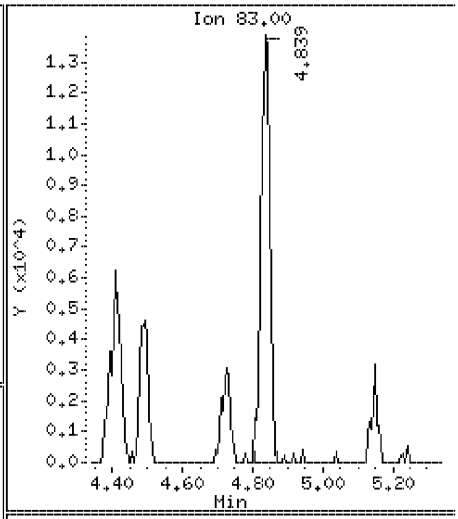
Concentration: 0.338 ppbv

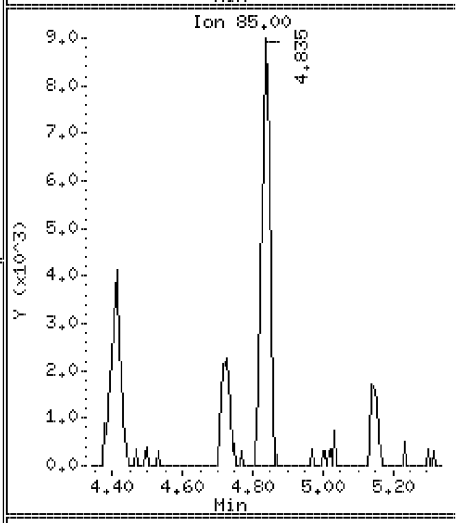


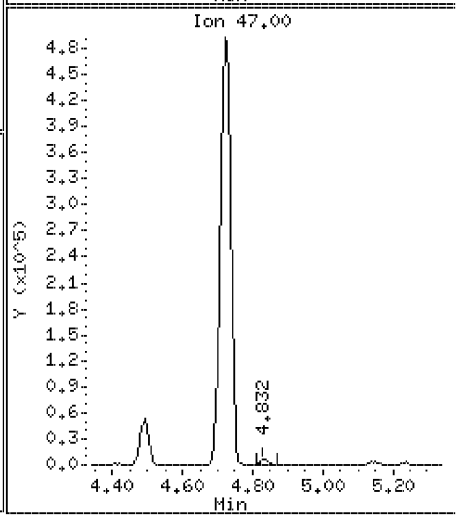












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

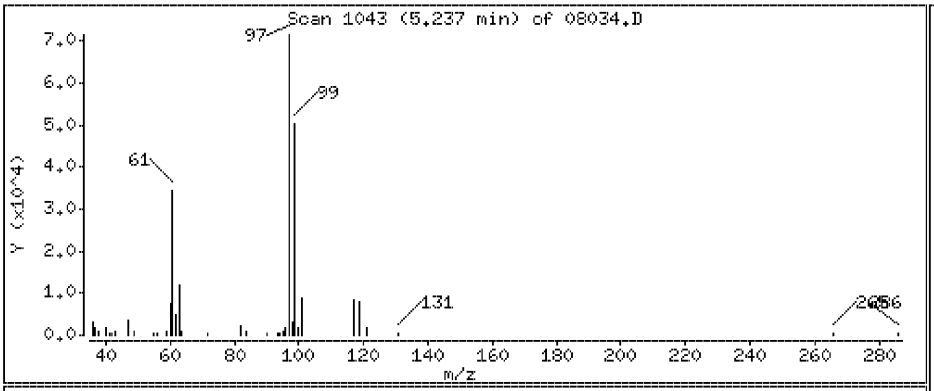
Operator: NCK

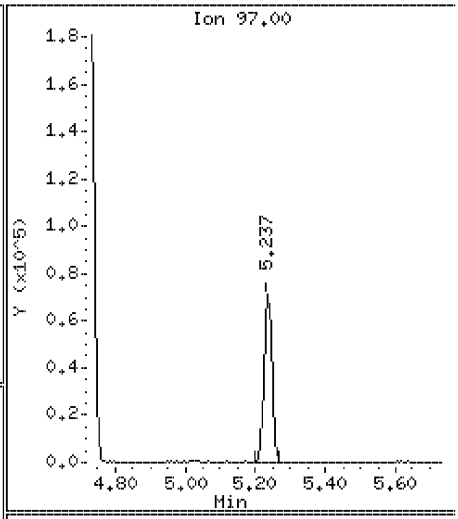
Column phase: J&W DB-5

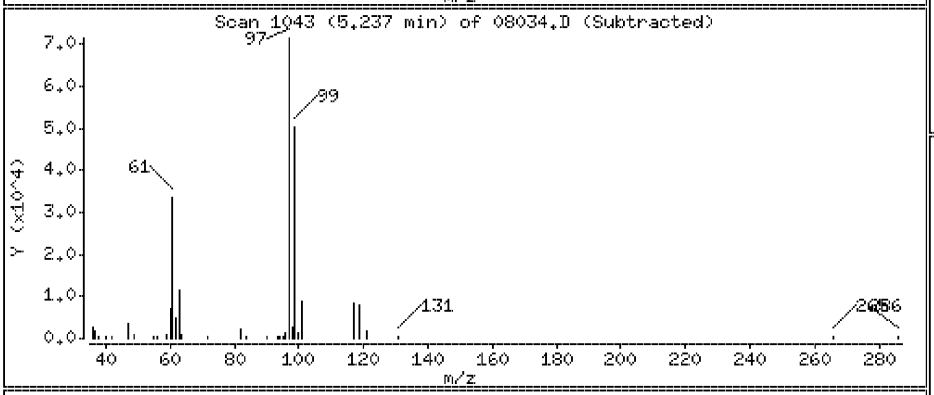
Column diameter: 0.32

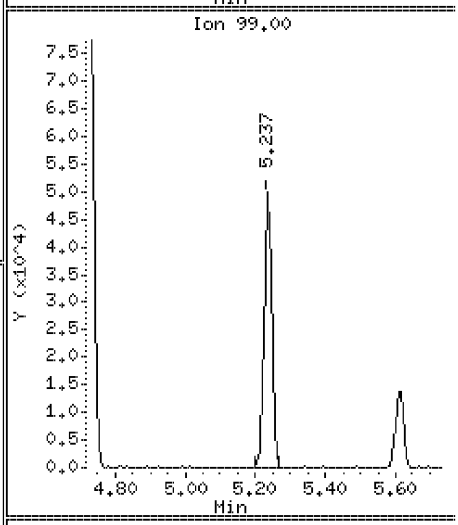
41 1,1,1-Trichloroethane

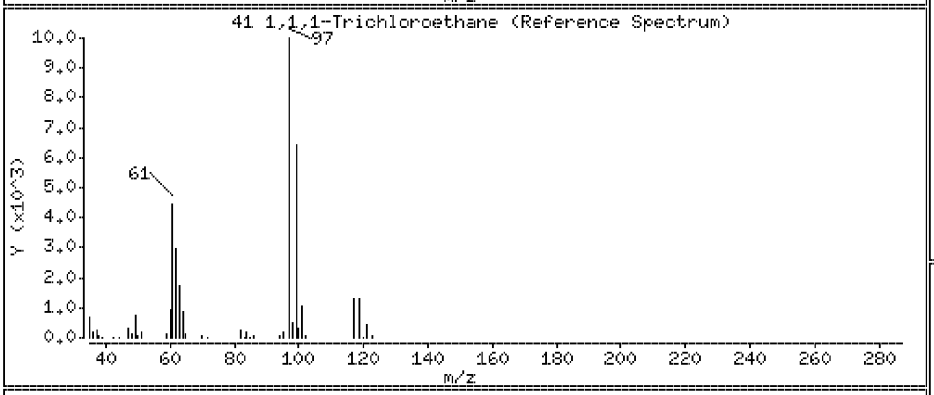
Concentration: 1.36 ppbv

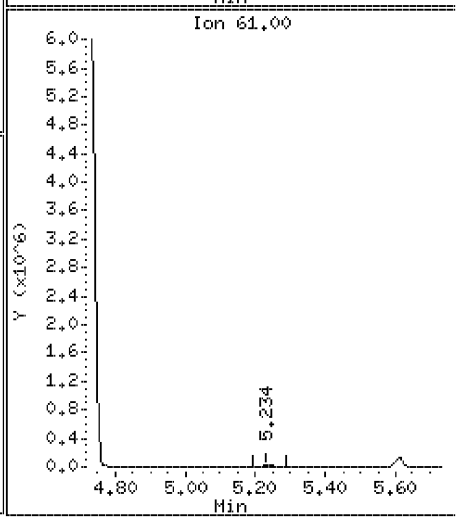


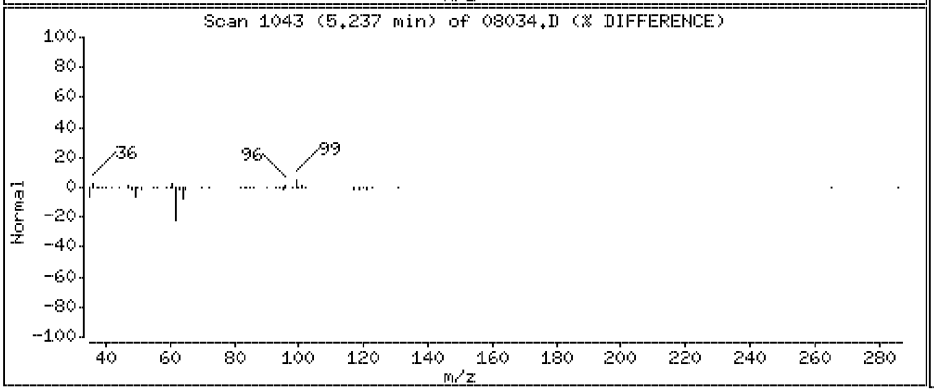












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

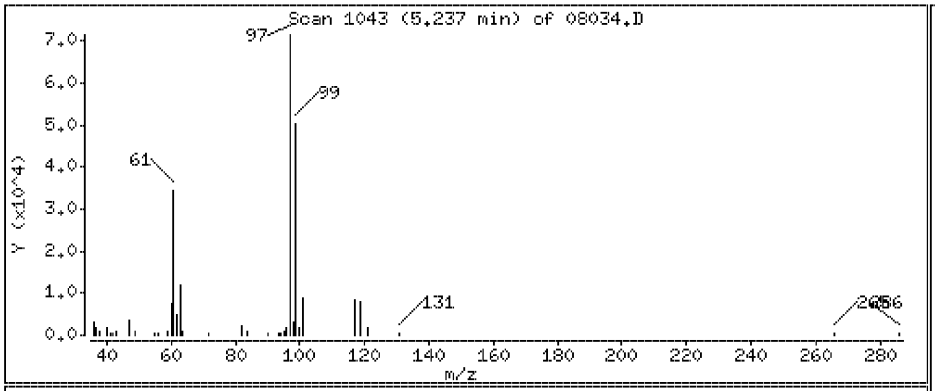
Operator: NCK

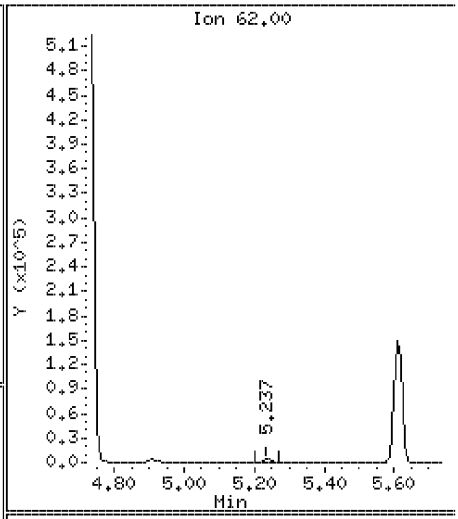
Column phase: J&W DB-5

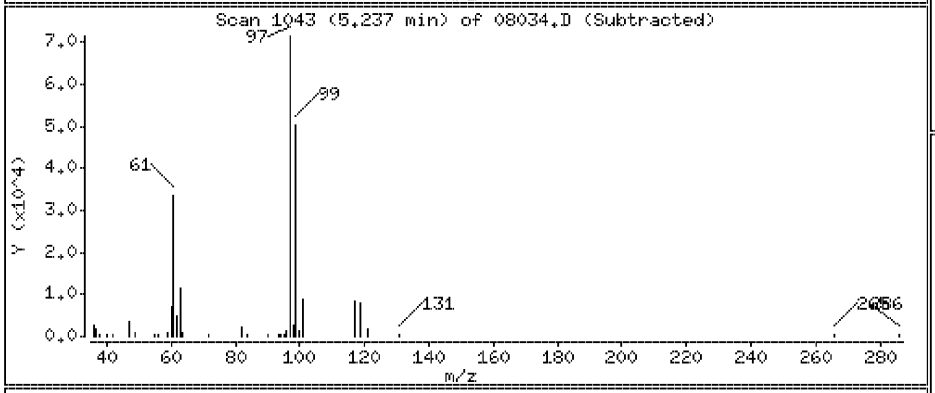
Column diameter: 0.32

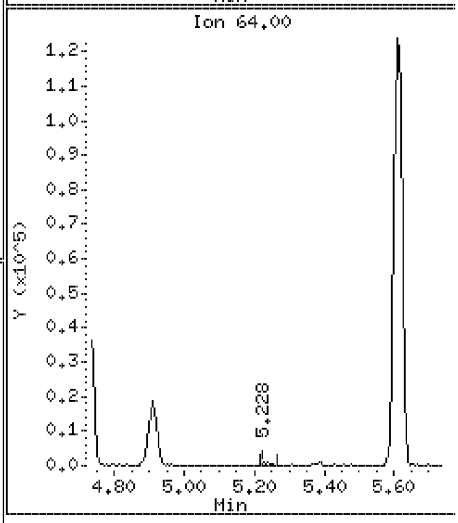
42 1,2-Dichloroethane

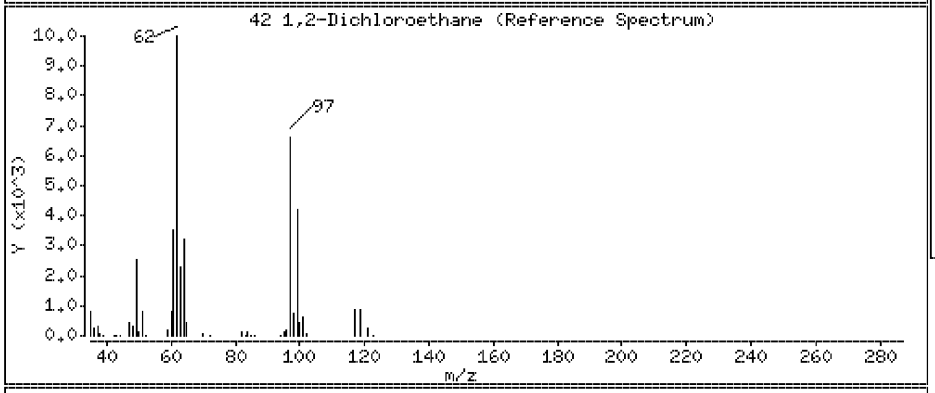
Concentration: 0.112 ppbv

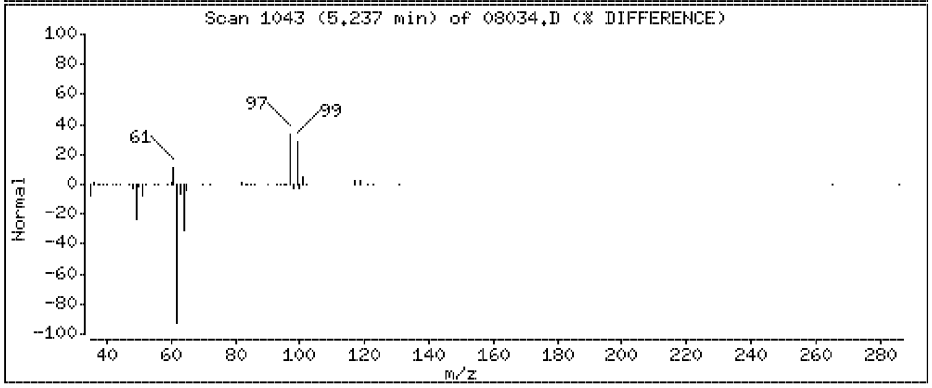












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

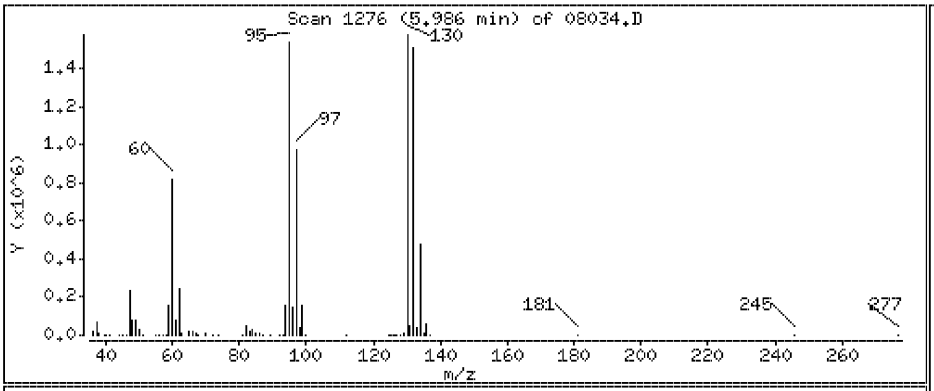
Operator: NCK

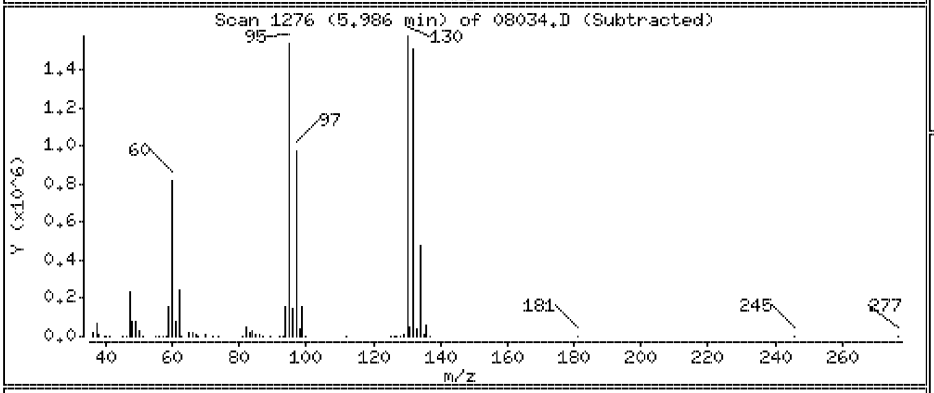
Column phase: J&W DB-5

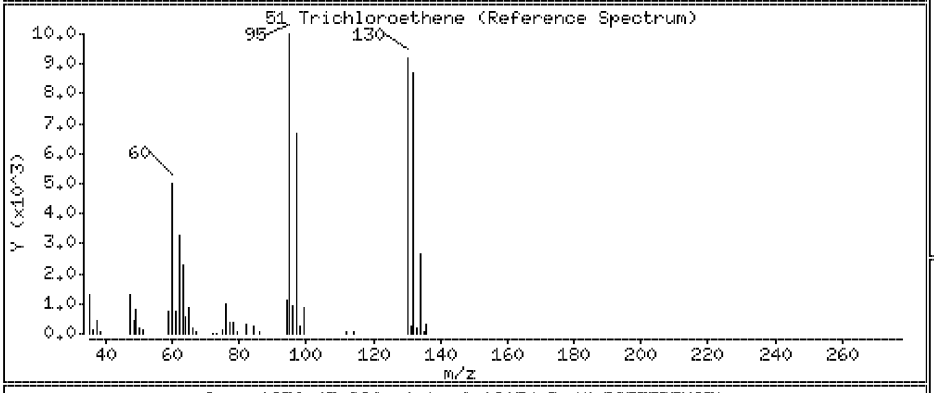
Column diameter: 0.32

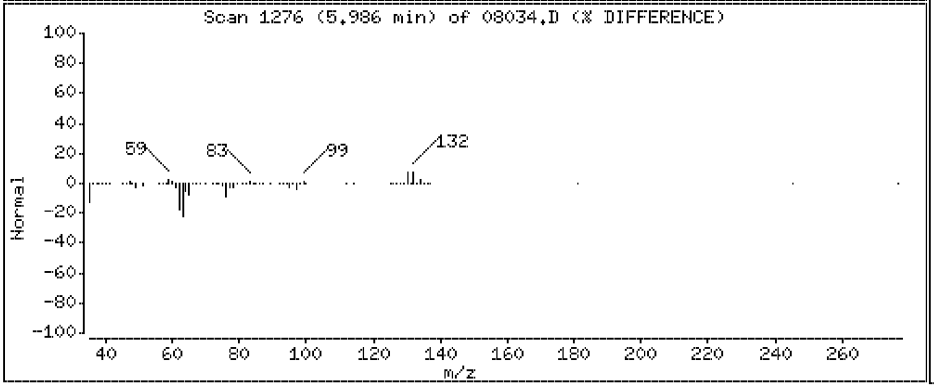
51 Trichloroethene

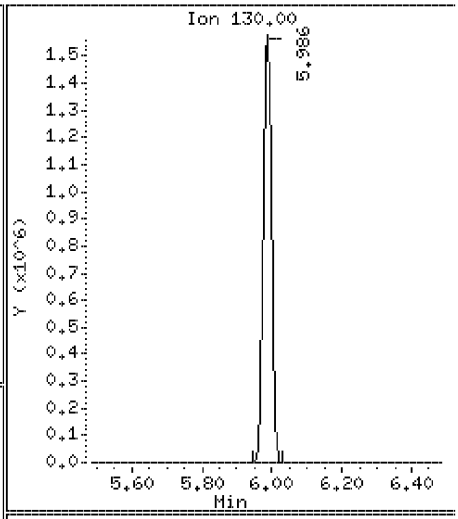
Concentration: 49.6 ppbv

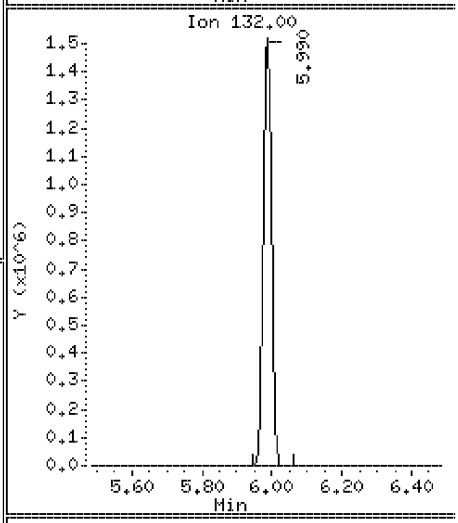


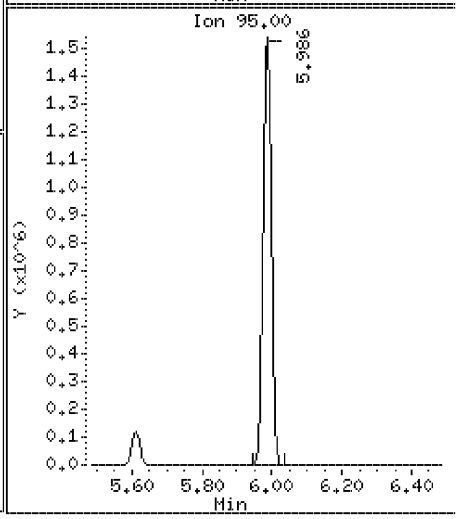












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

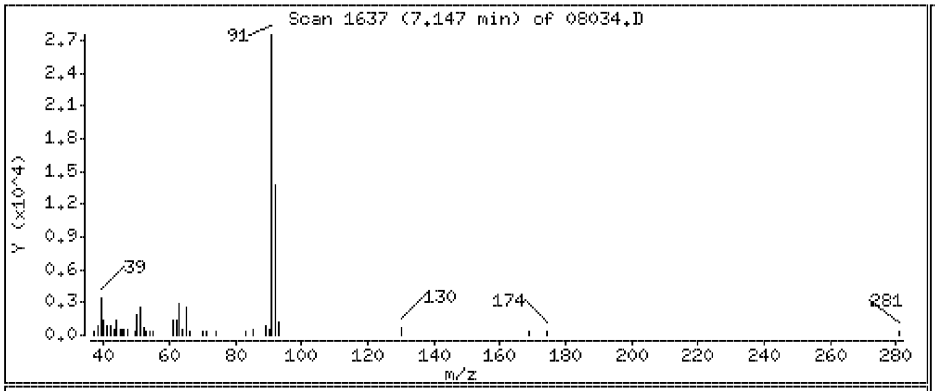
Operator: NCK

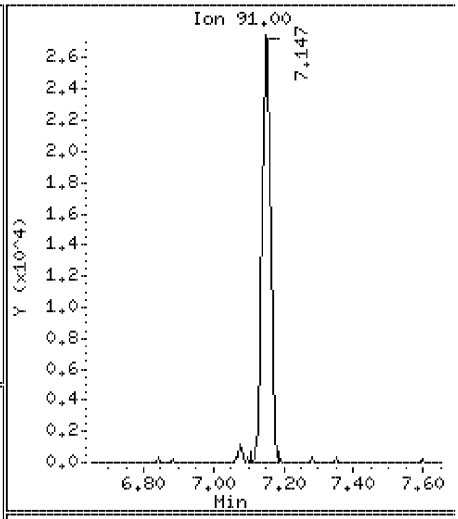
Column phase: J&W DB-5

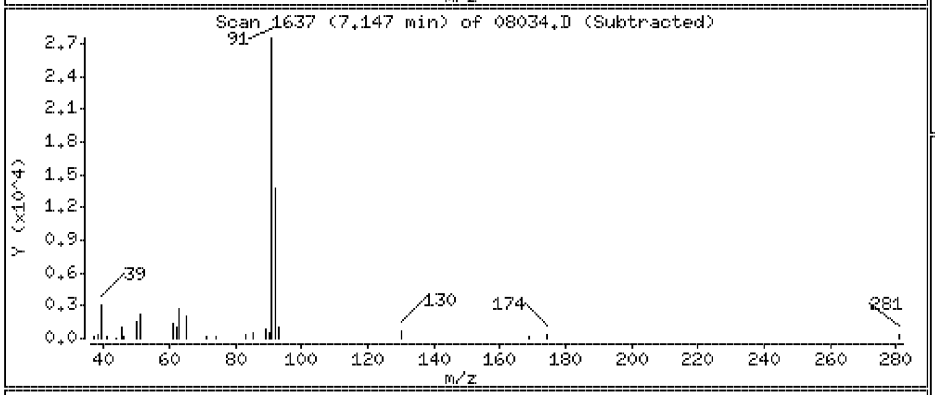
Column diameter: 0.32

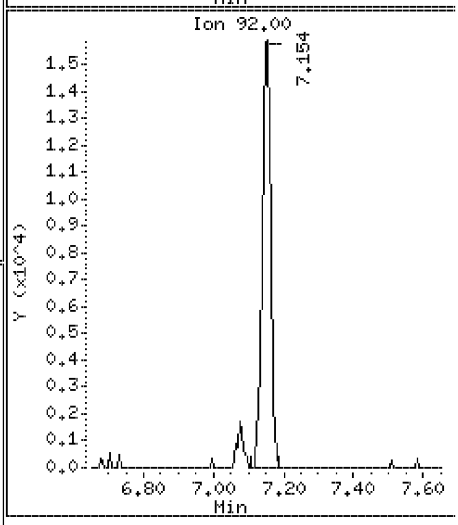
61 Toluene

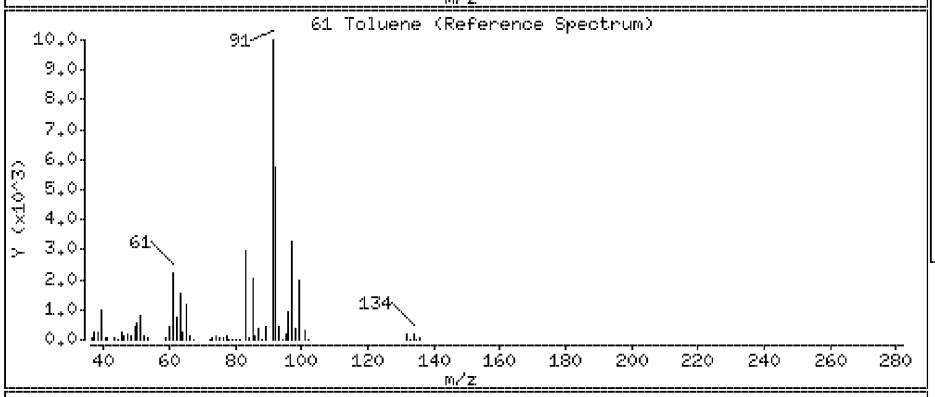
Concentration: 0.351 ppbv

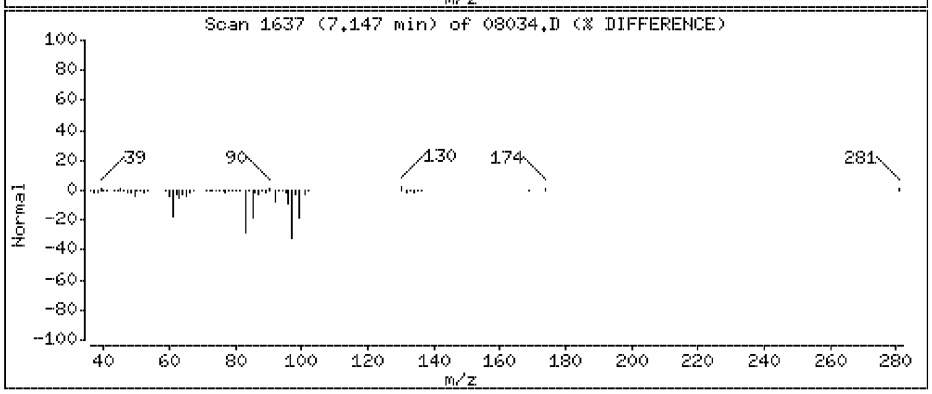












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

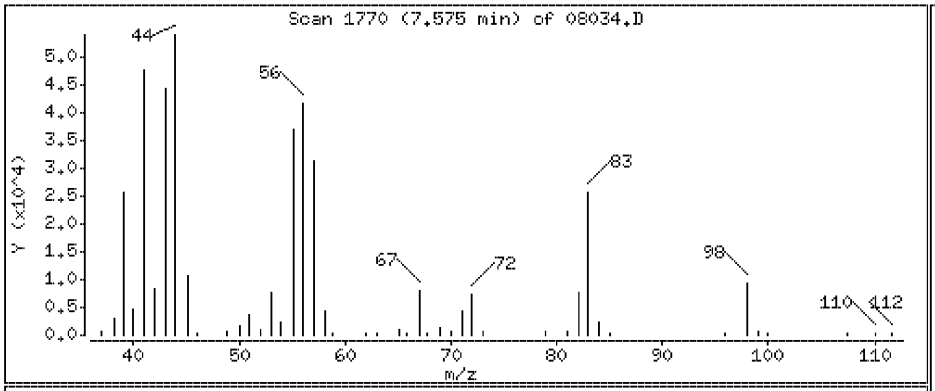
Operator: NCK

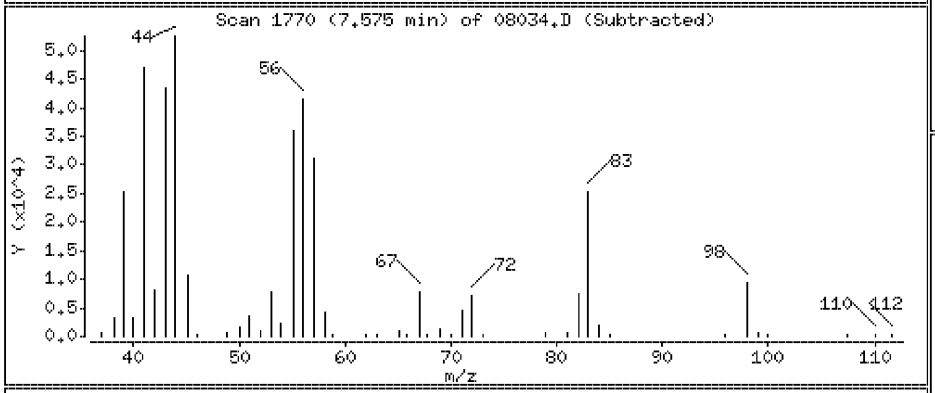
Column phase: J&W DB-5

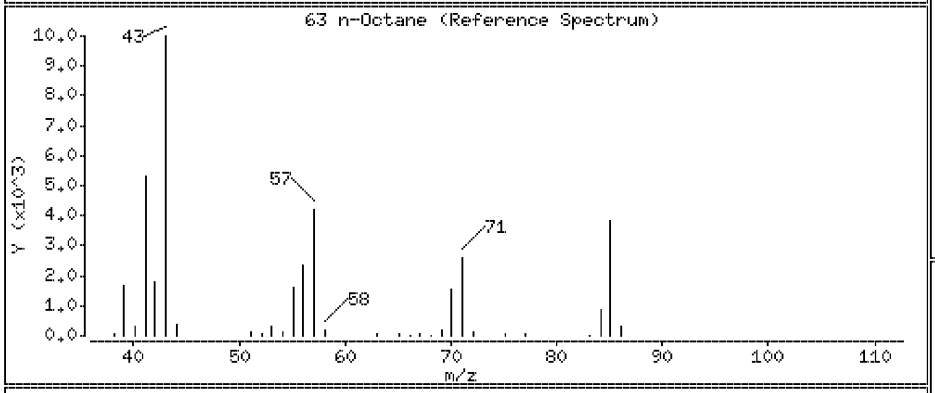
Column diameter: 0.32

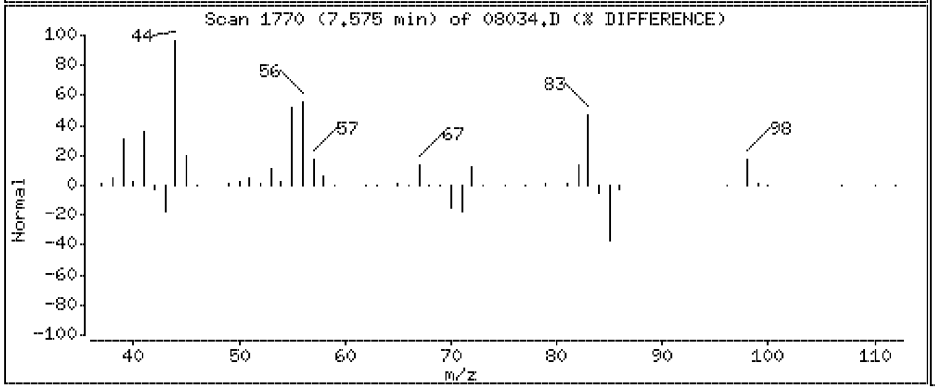
63 n-Octane

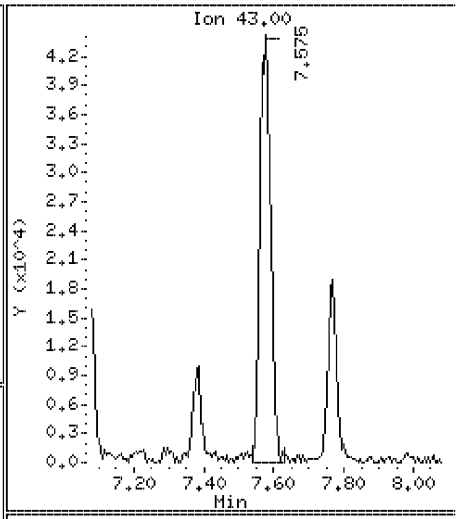
Concentration: 1.03 ppbv

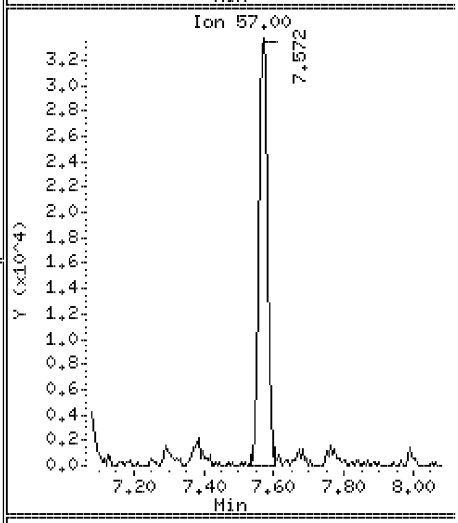


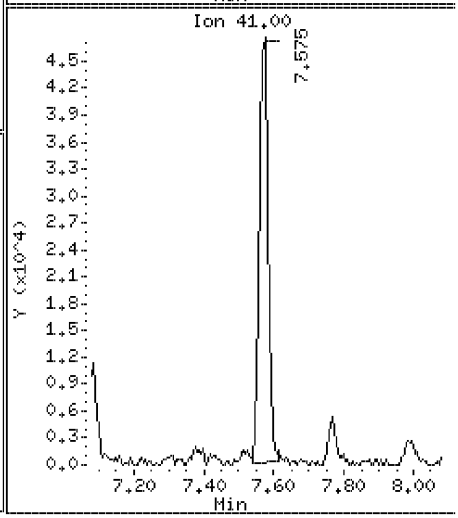












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

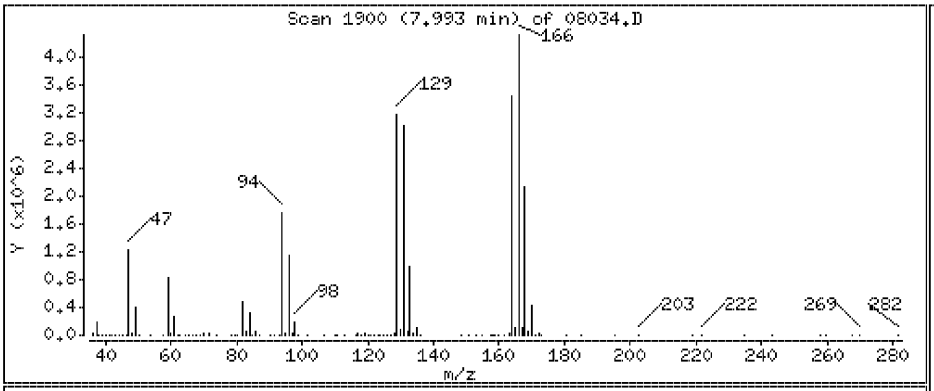
Operator: NCK

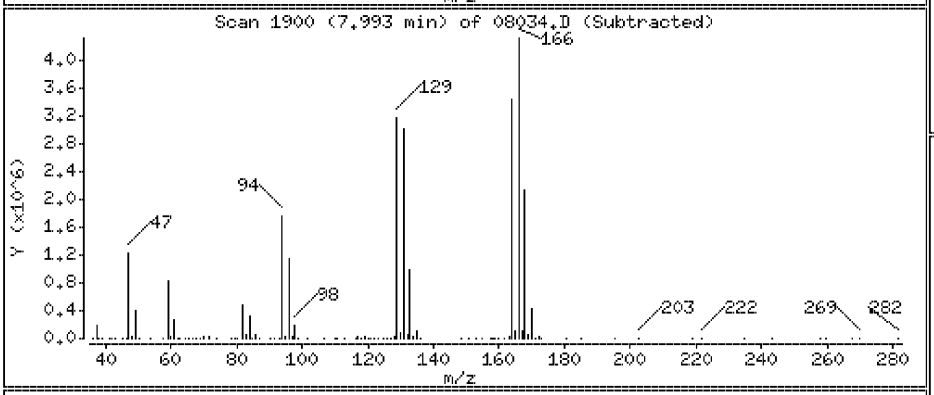
Column phase: J&W DB-5

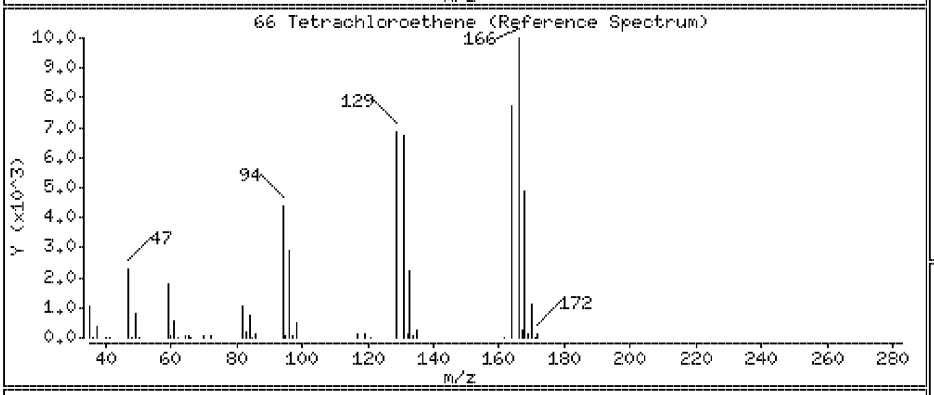
Column diameter: 0.32

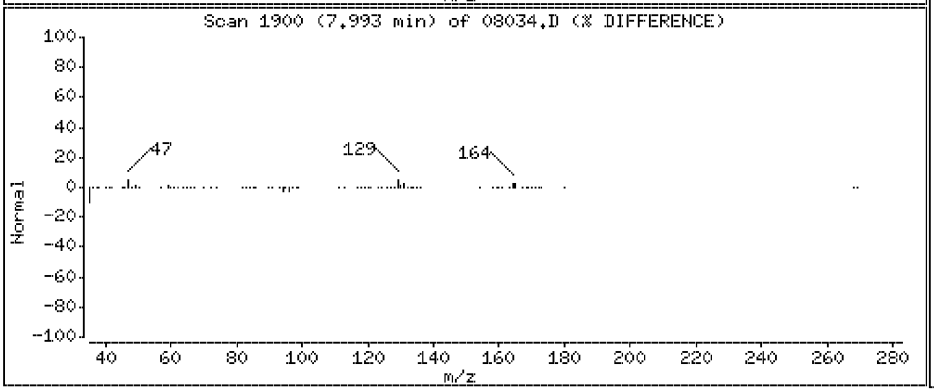
66 Tetrachloroethene

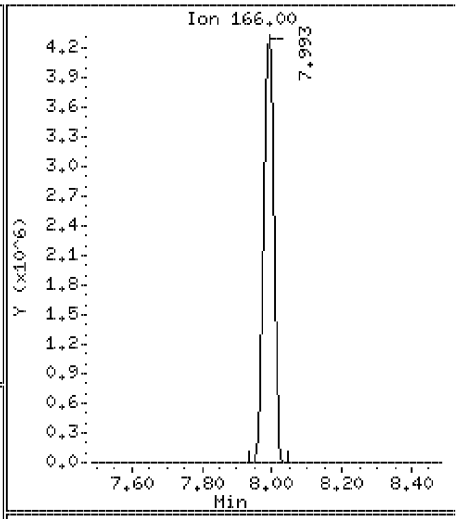
Concentration: 157 ppbv

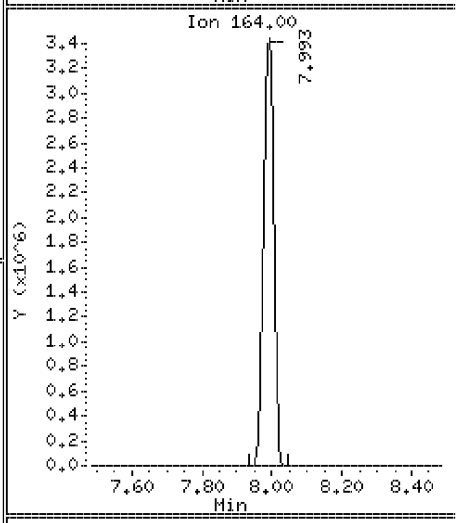


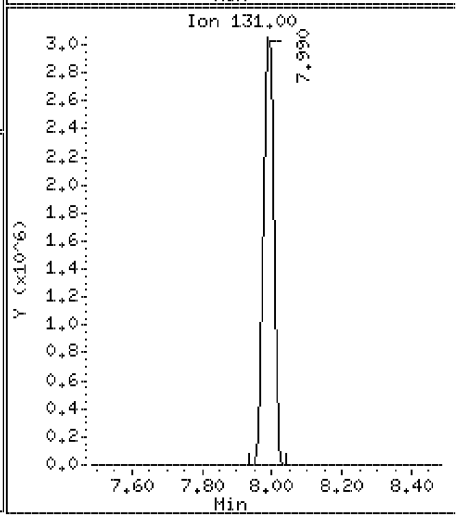












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

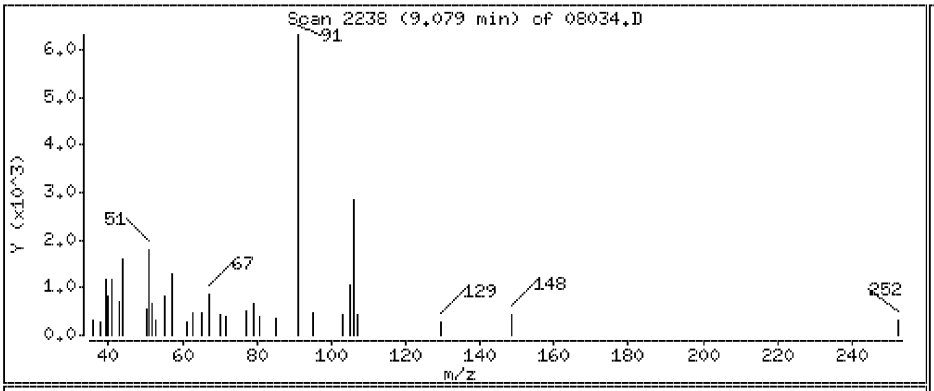
Operator: NCK

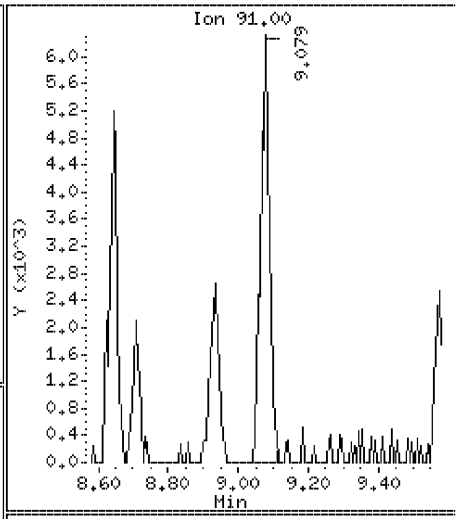
Column phase: J&W DB-5

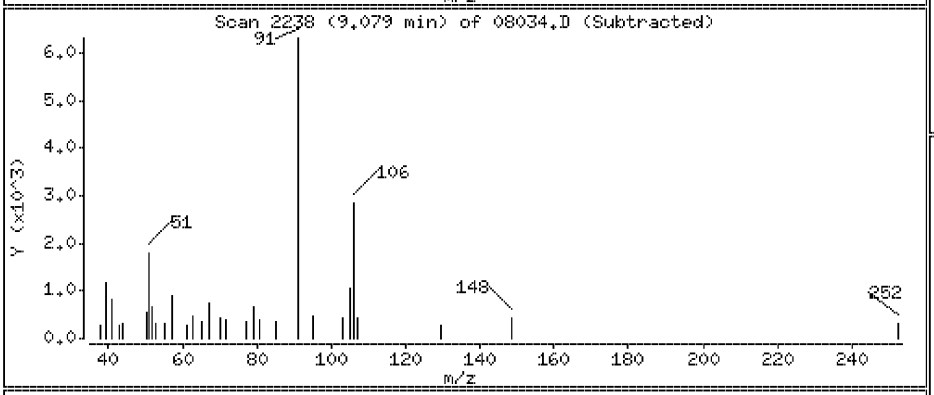
Column diameter: 0.32

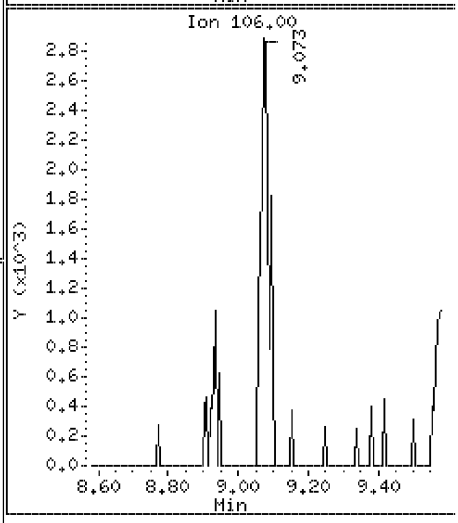
70 m&p-Xylene

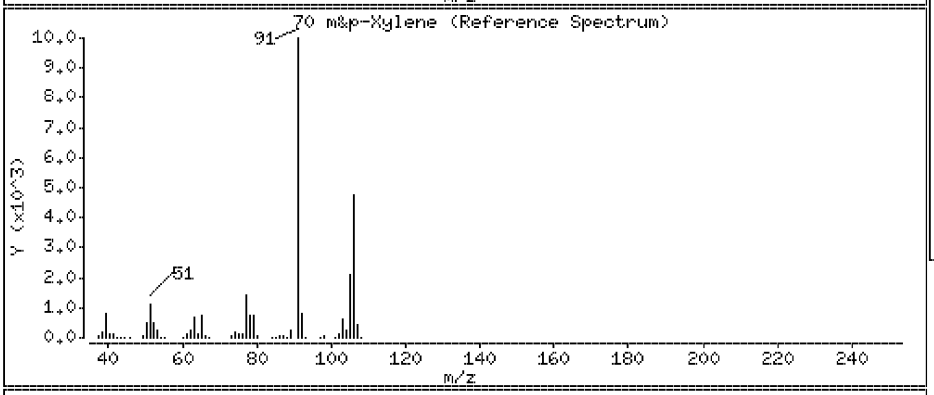
Concentration: 0.359 ppbv

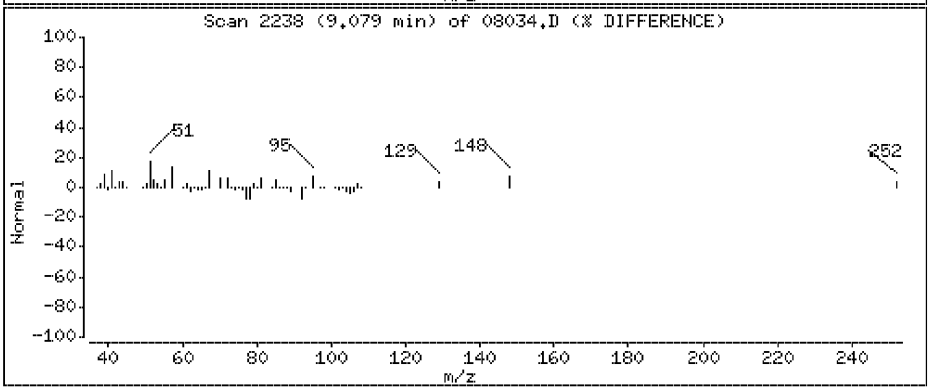












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

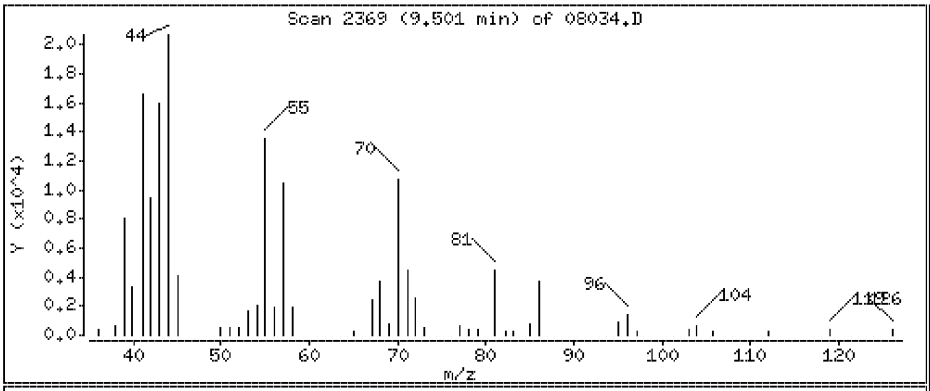
Operator: NCK

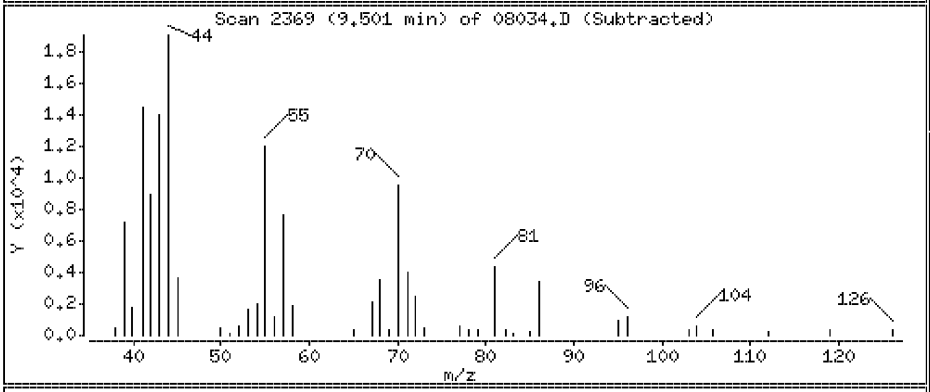
Column phase: J&W DB-5

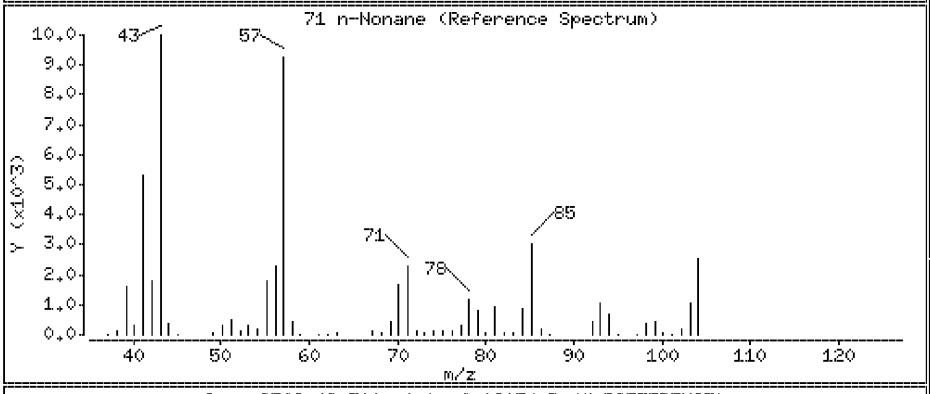
Column diameter: 0.32

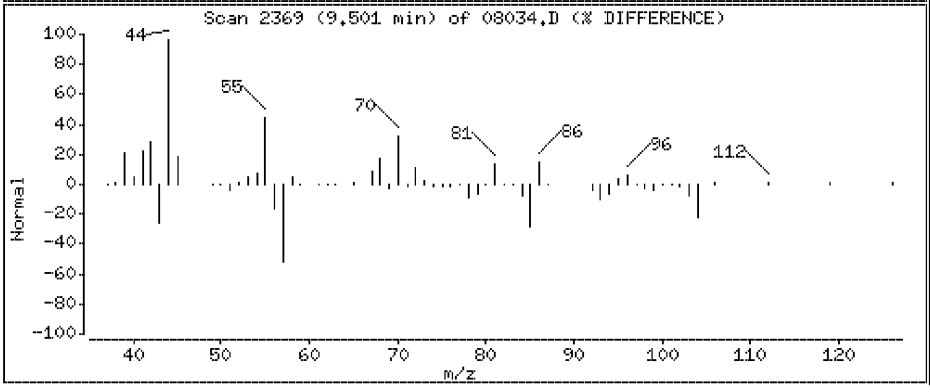
71 n-Nonane

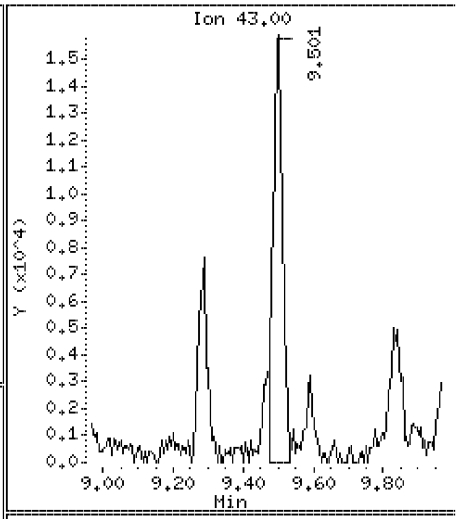
Concentration: 0.397 ppbv

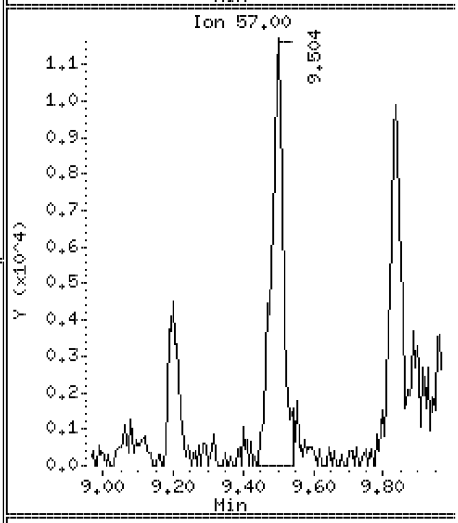


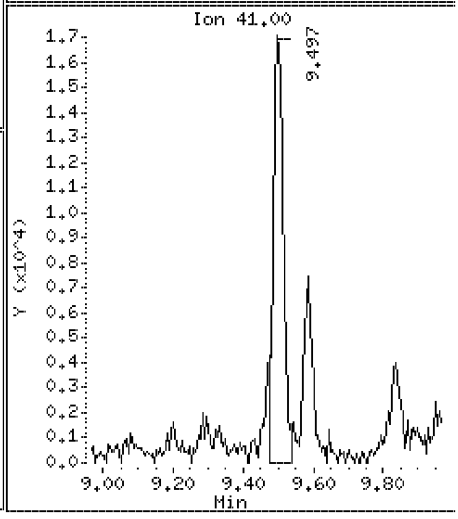












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

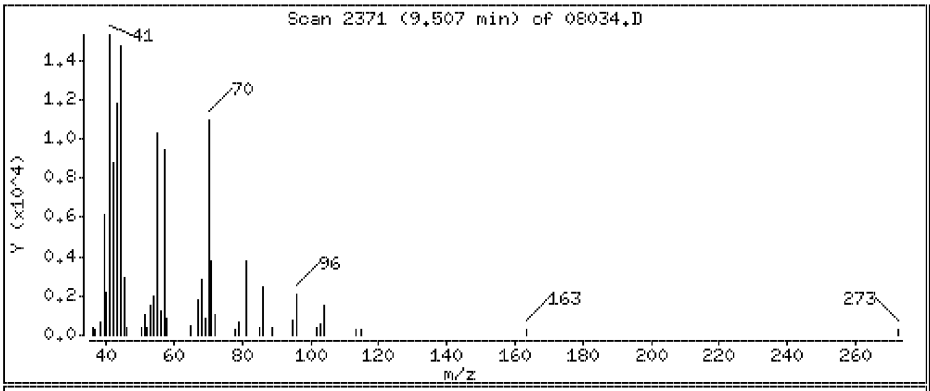
Operator: NCK

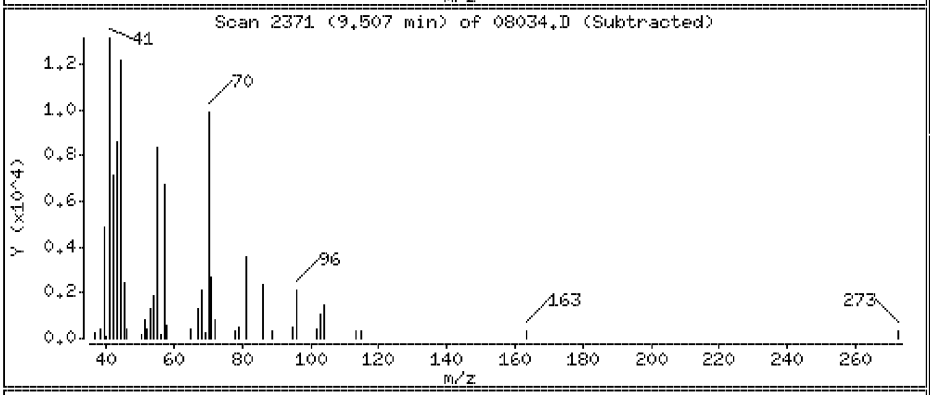
Column phase: J&W DB-5

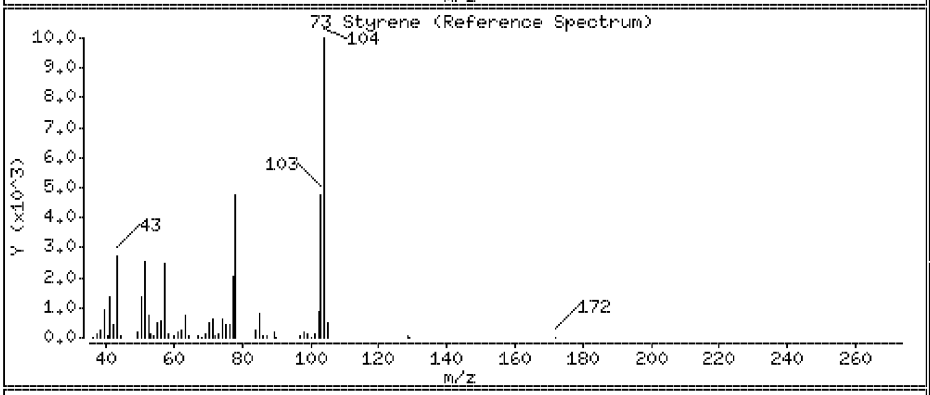
Column diameter: 0.32

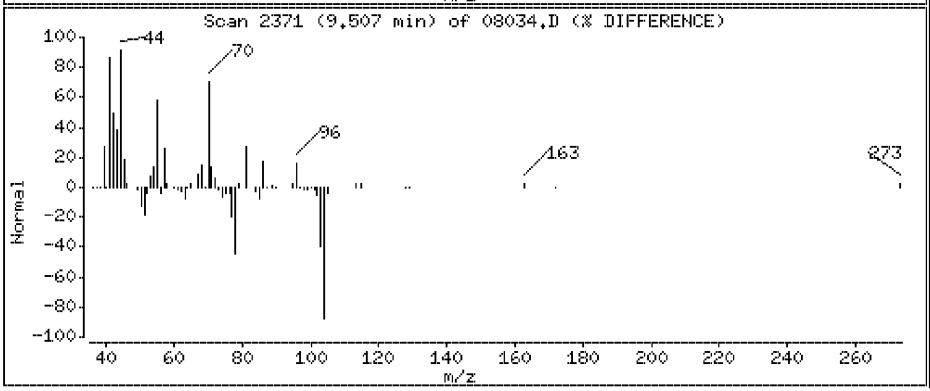
73 Styrene

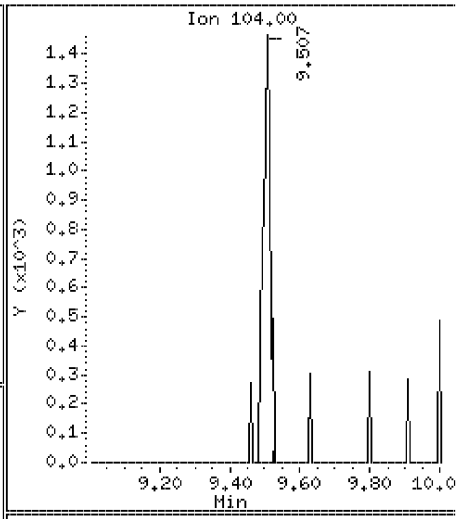
Concentration: 0.238 ppbv

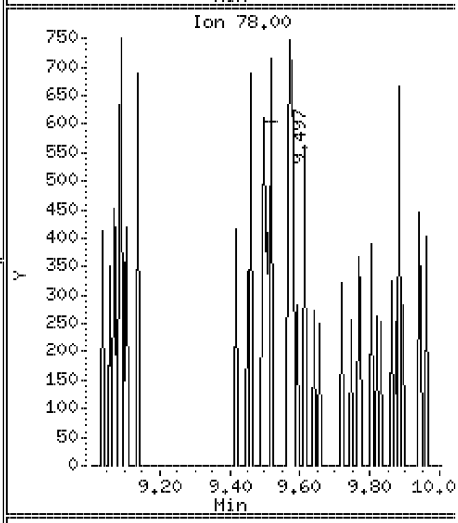


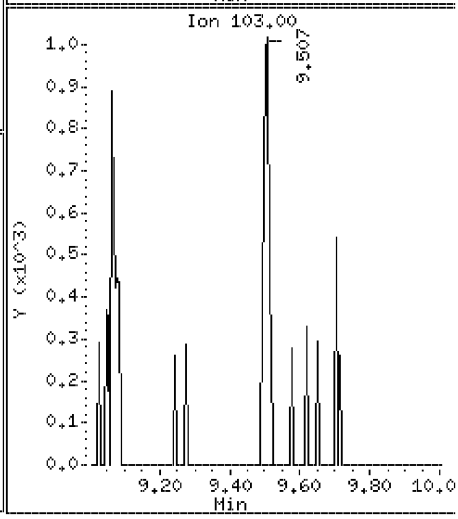












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

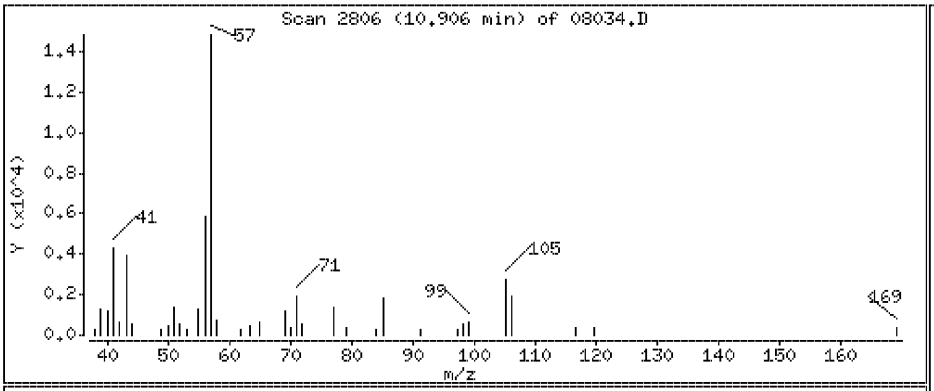
Operator: NCK

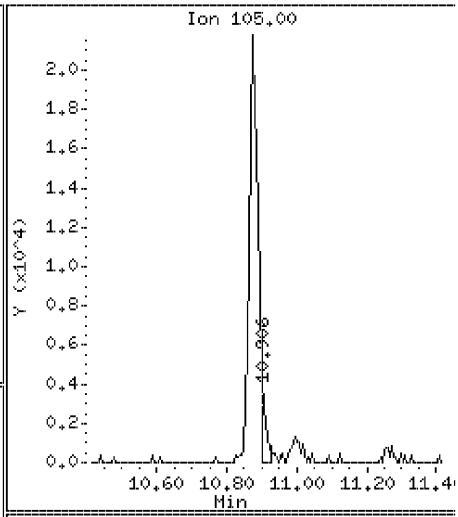
Column phase: J&W DB-5

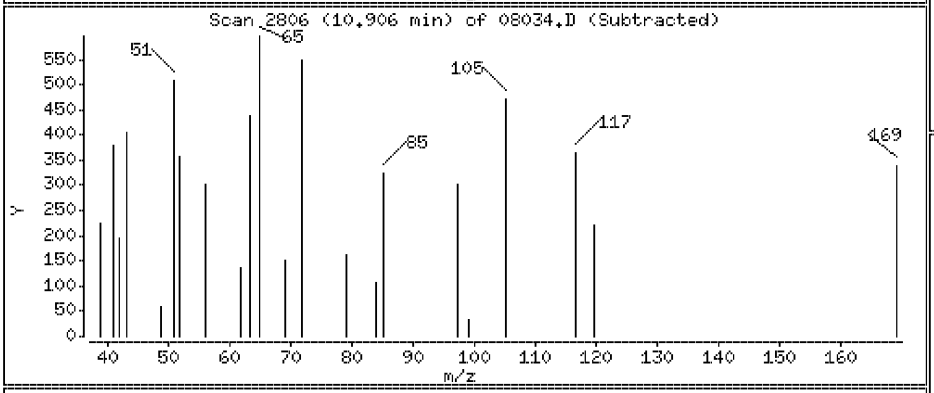
Column diameter: 0.32

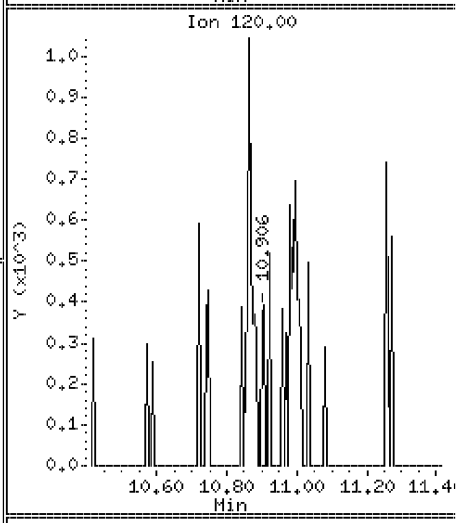
78 4-Ethyltoluene

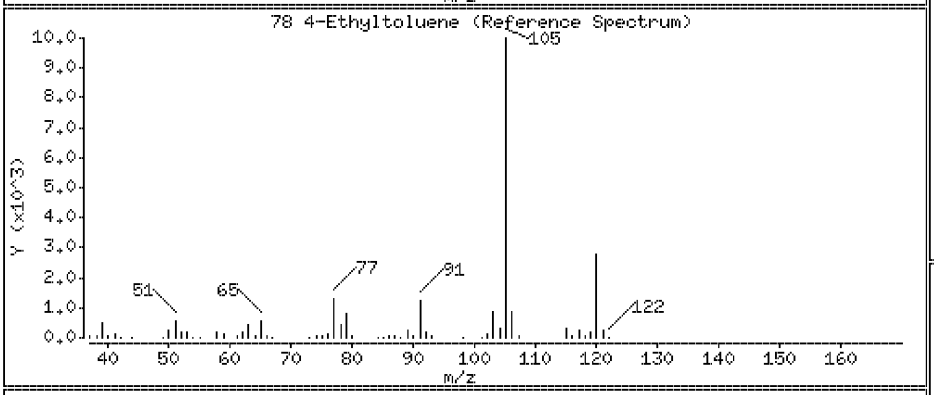
Concentration: 0.282 ppbv

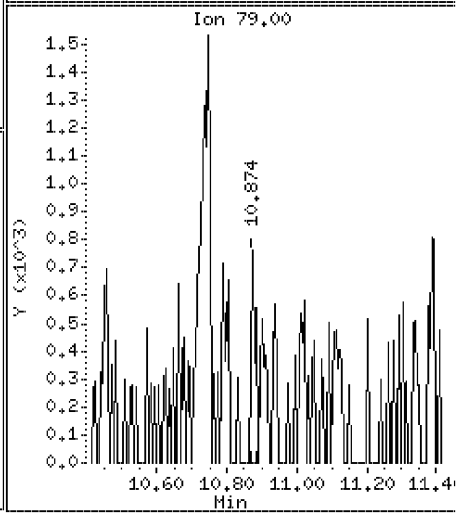


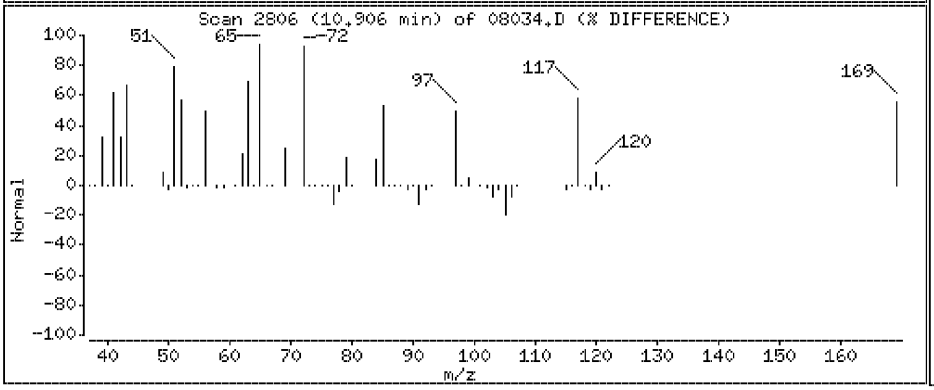












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

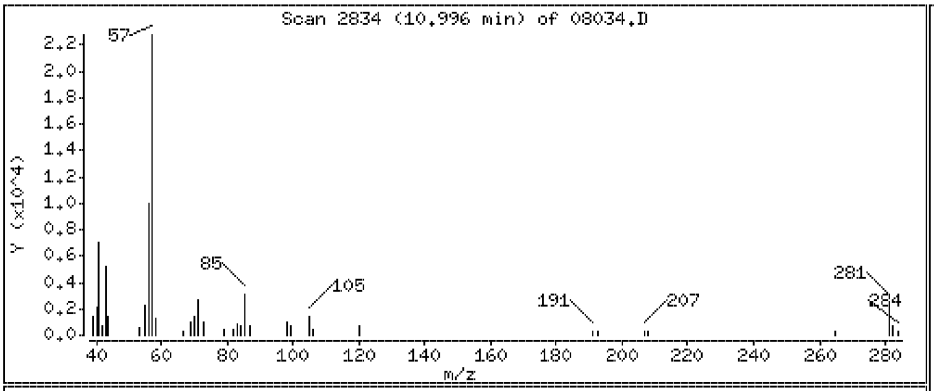
Operator: NCK

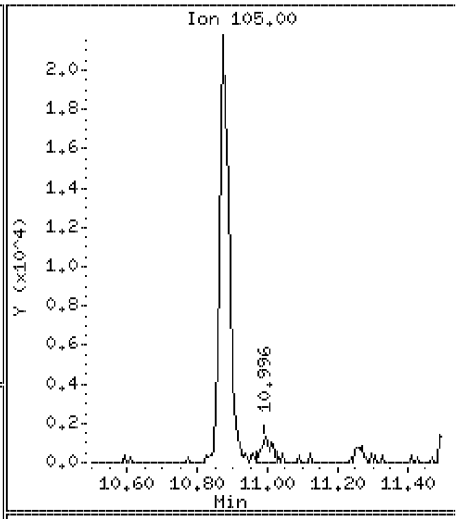
Column phase: J&W DB-5

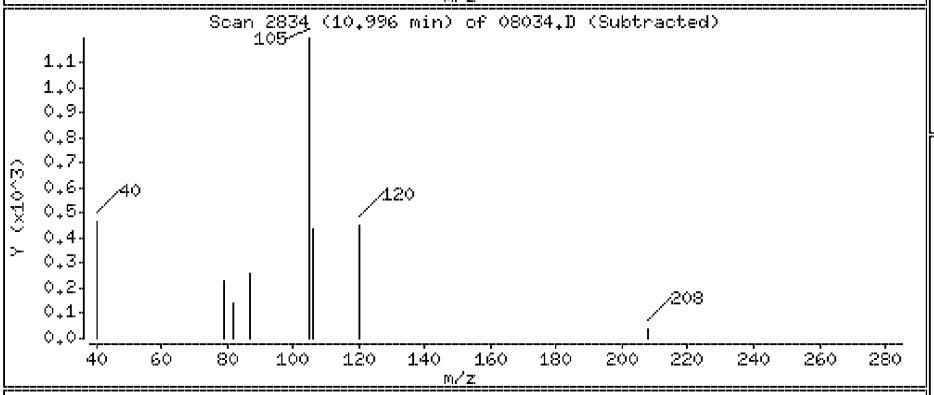
Column diameter: 0.32

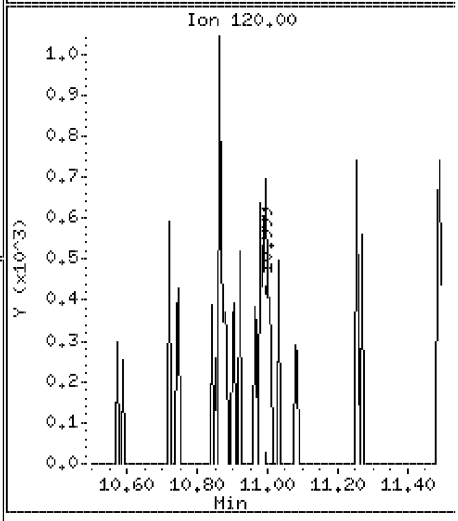
79 1,3,5-Trimethylbenzene

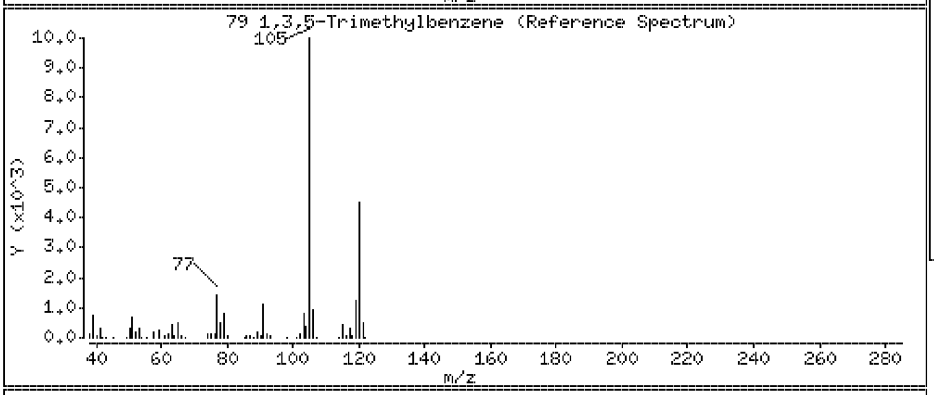
Concentration: 0.250 ppbv

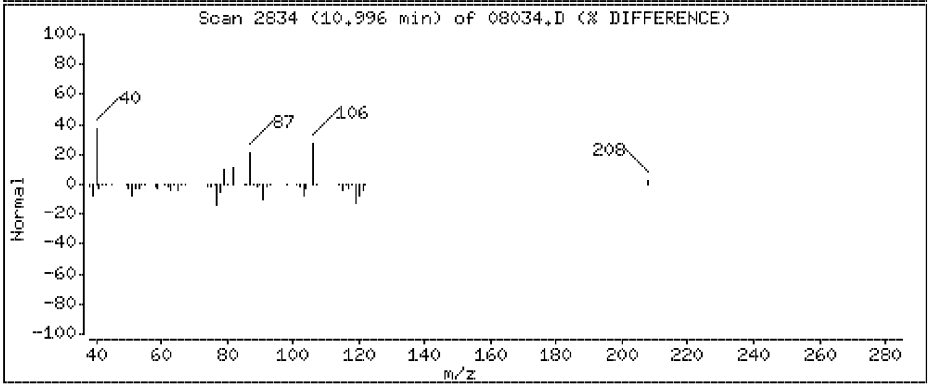












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

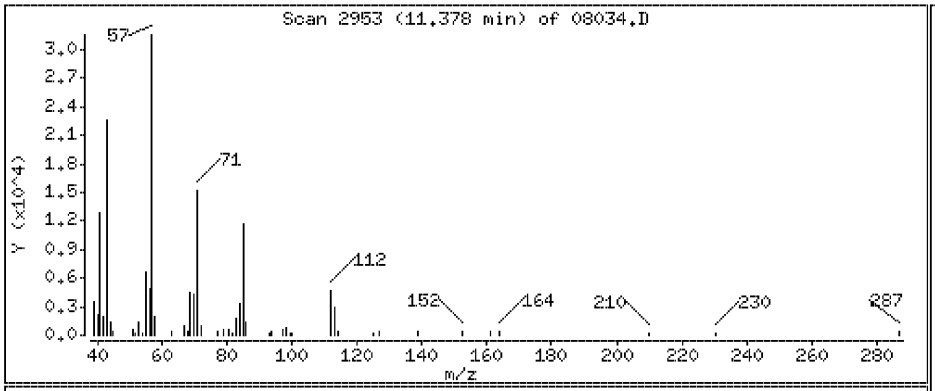
Operator: NCK

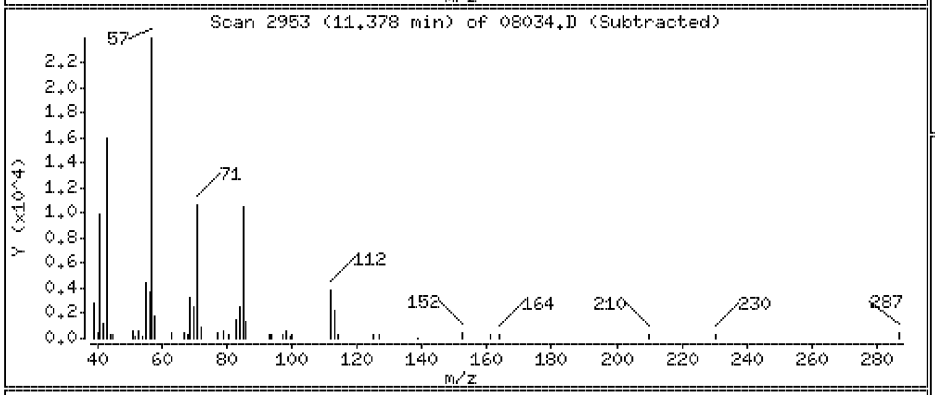
Column phase: J&W DB-5

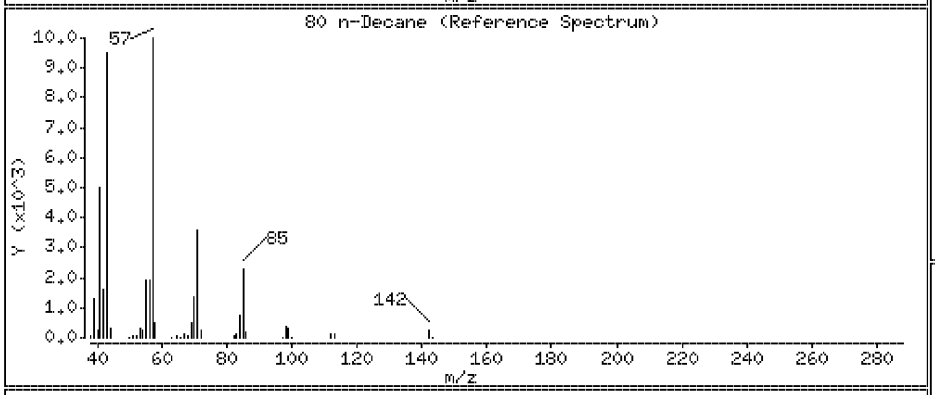
Column diameter: 0.32

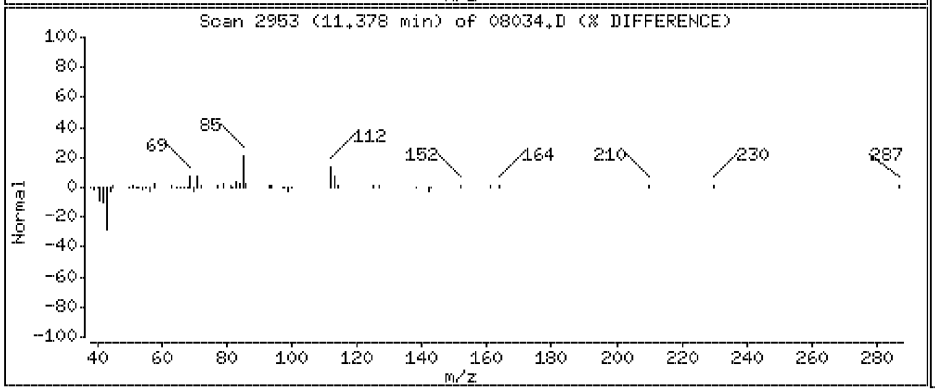
80 n-Decane

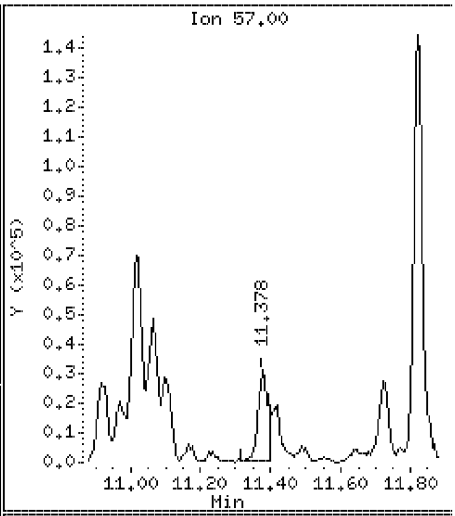
Concentration: 0.755 ppbv

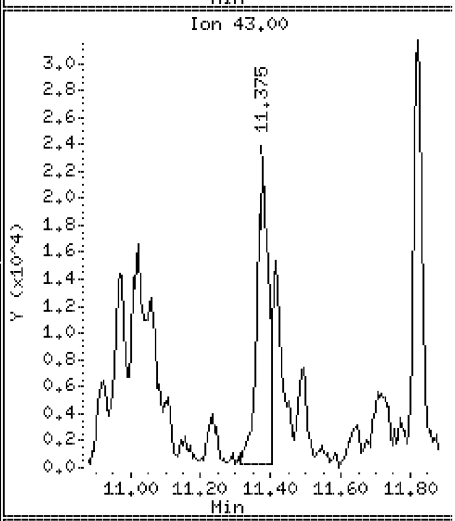


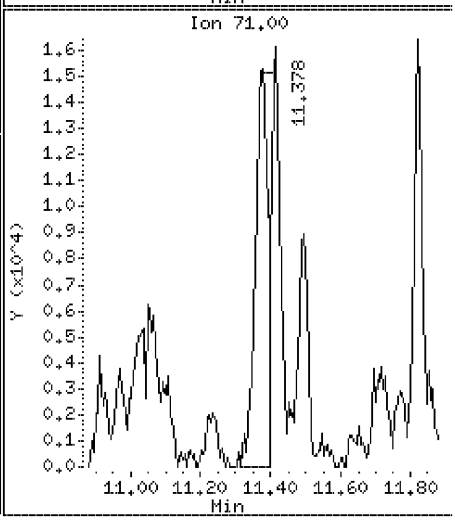












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

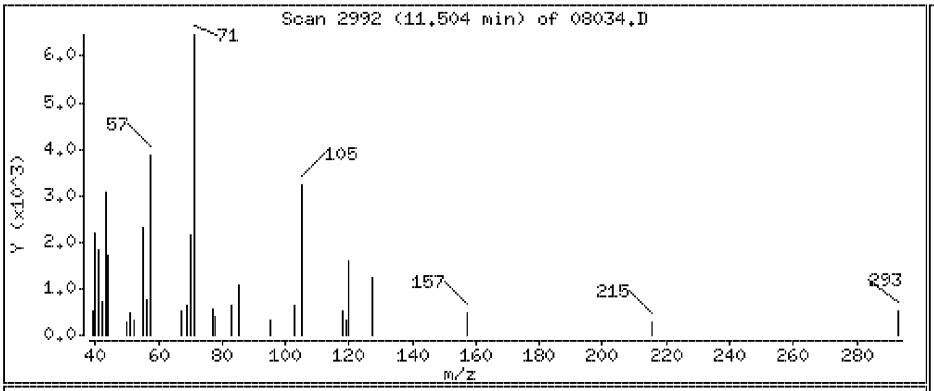
Operator: NCK

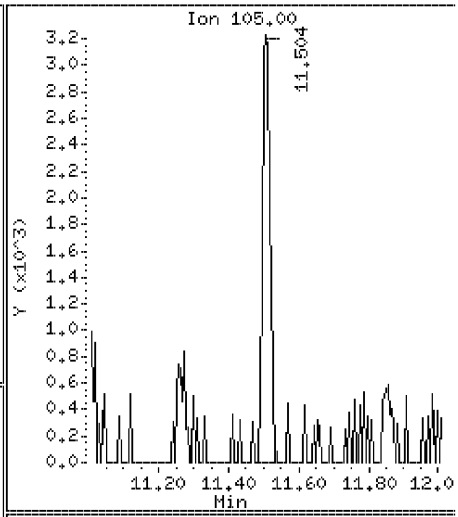
Column phase: J&W DB-5

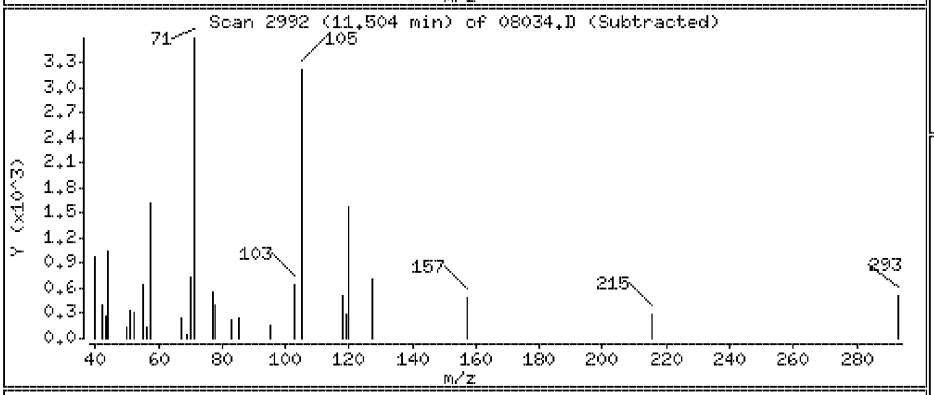
Column diameter: 0.32

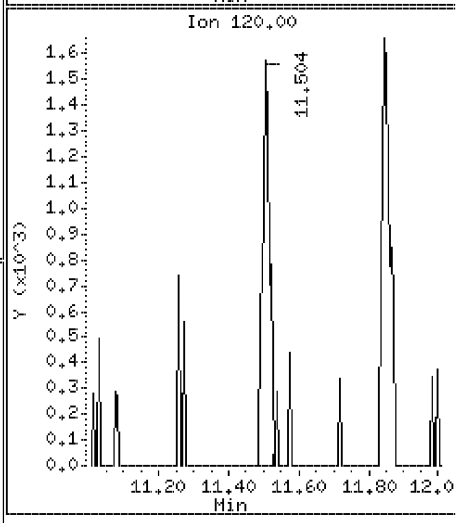
82 1,2,4-Trimethylbenzene

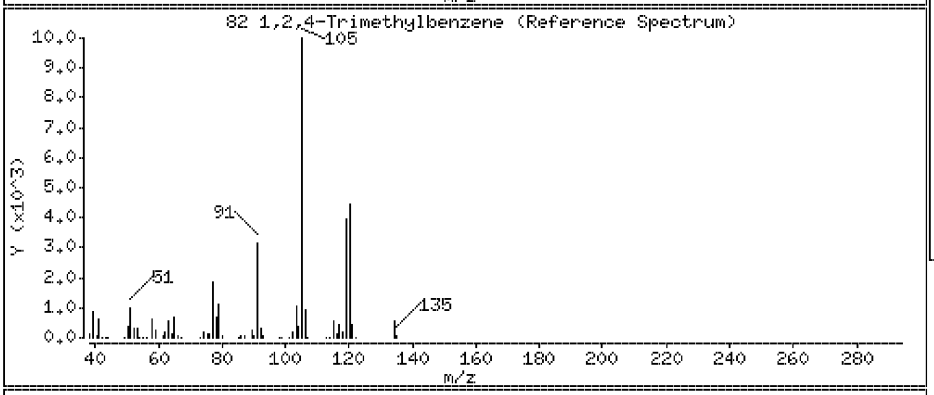
Concentration: 0.256 ppbv

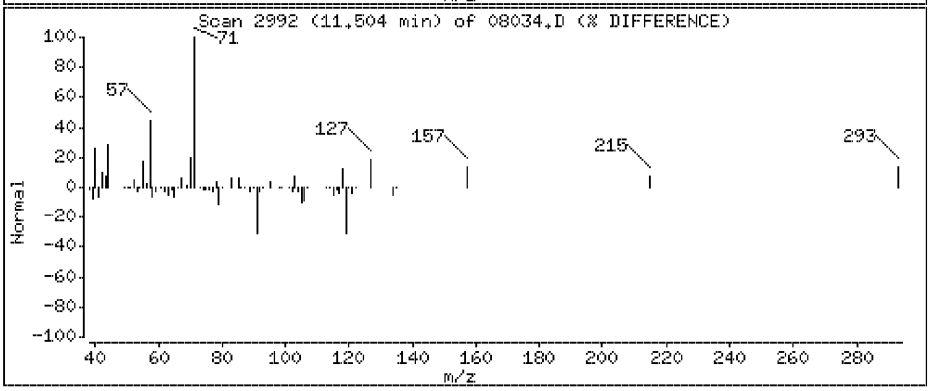












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

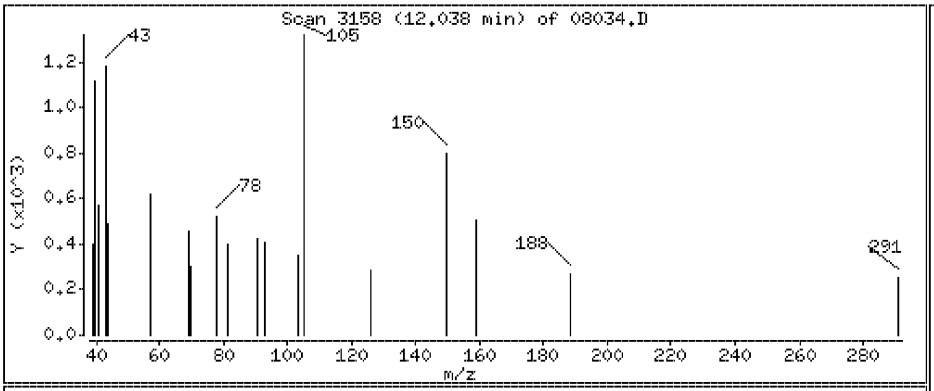
Operator: NCK

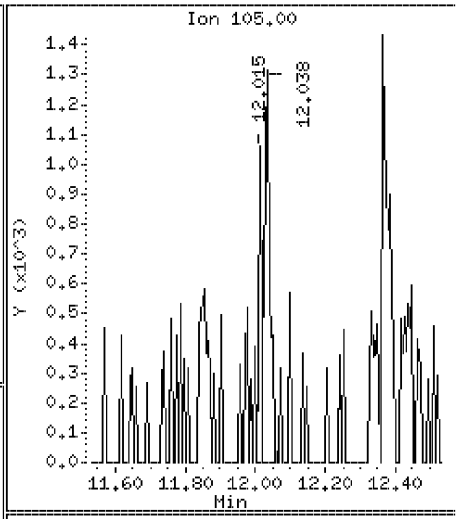
Column phase: J&W DB-5

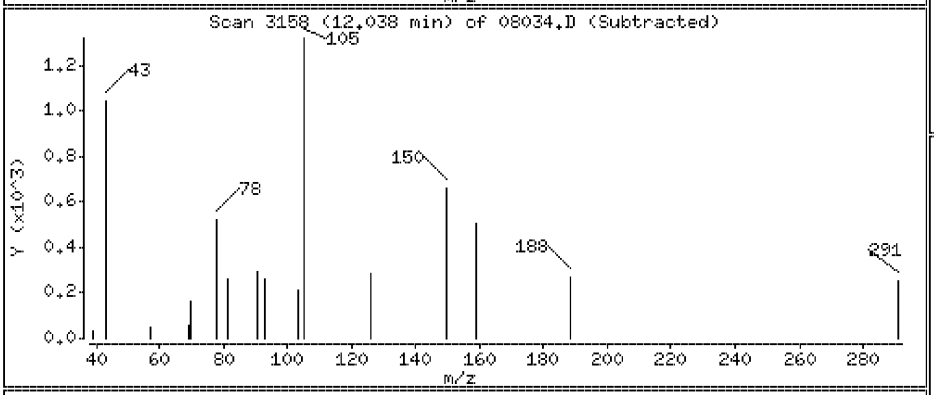
Column diameter: 0.32

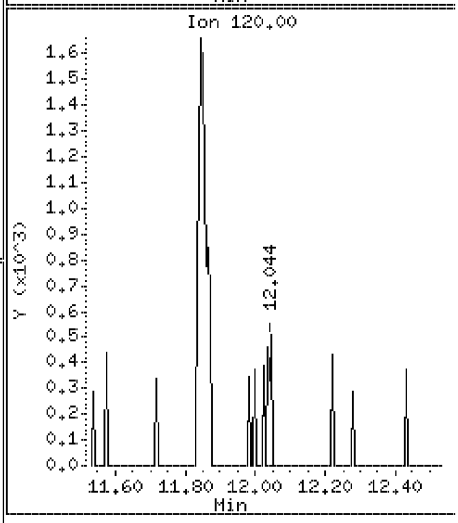
89 1,2,3-Trimethylbenzene

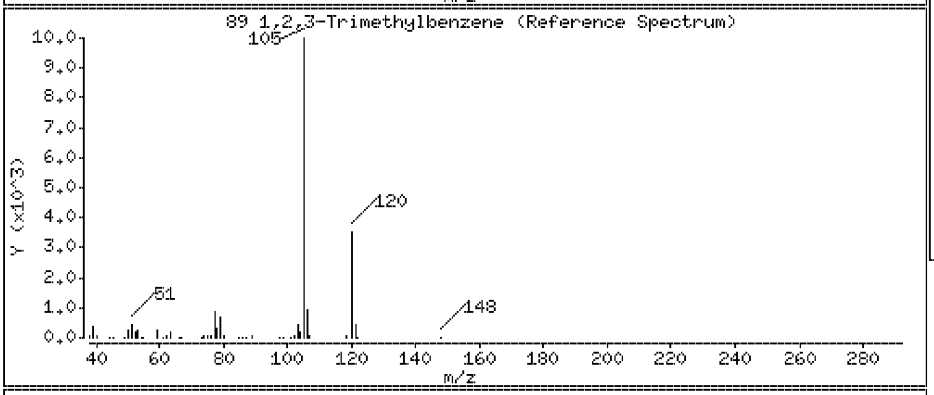
Concentration: 0.259 ppbv

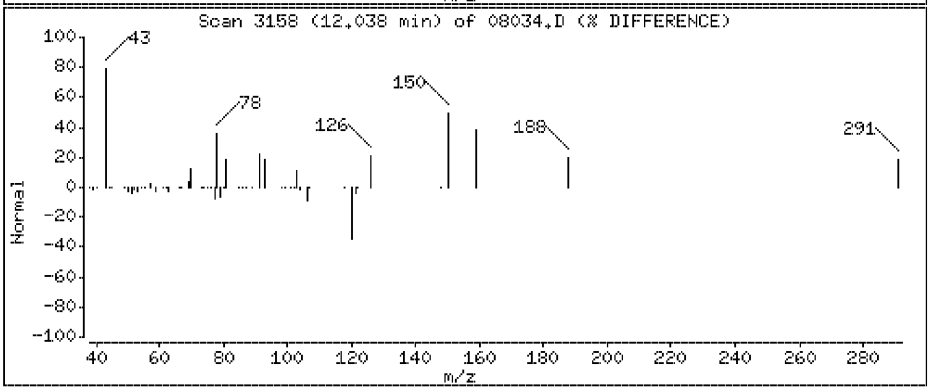












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08034.D

Date : 22-MAR-2017 01:42

Client ID:

Instrument: 10airB.i

Sample Info:

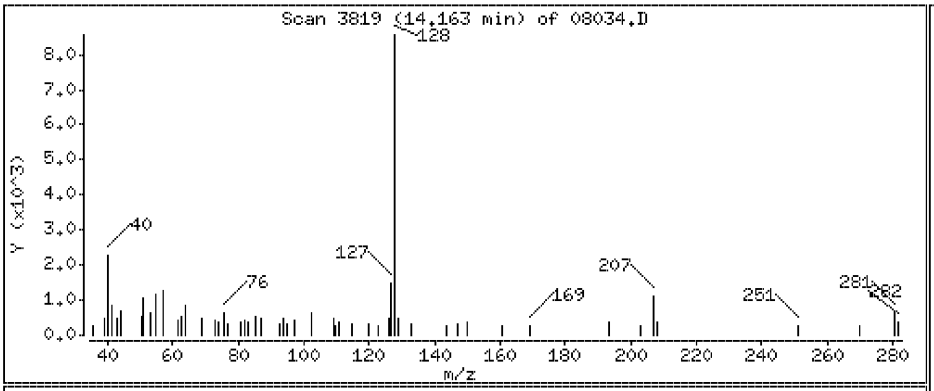
Operator: NCK

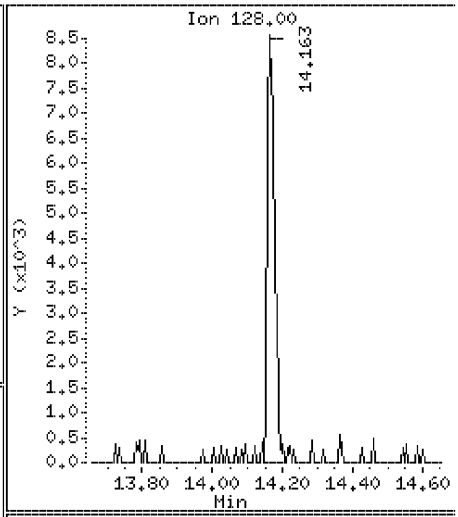
Column phase: J&W DB-5

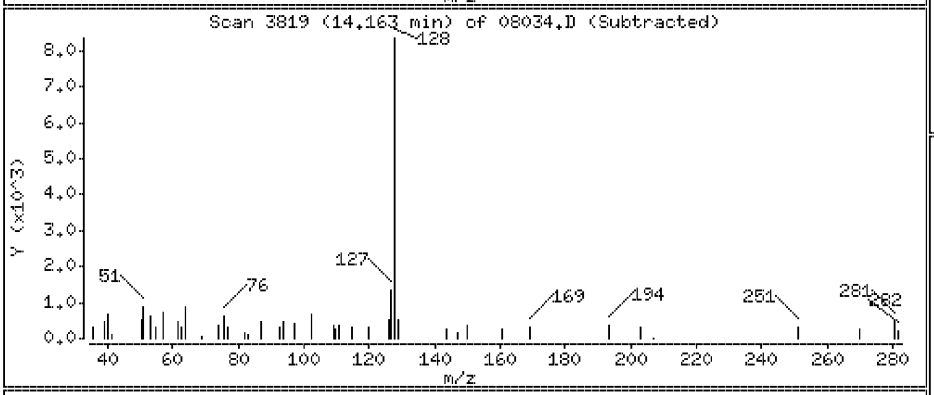
Column diameter: 0.32

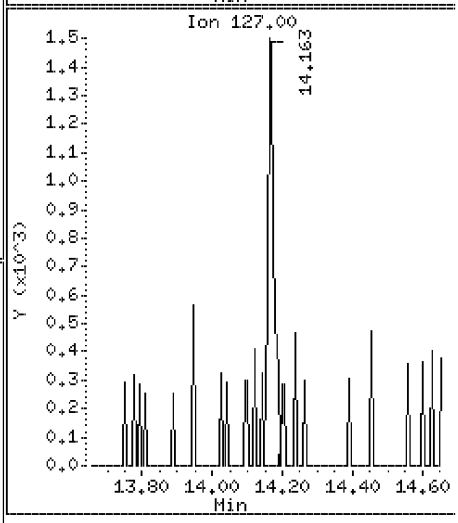
94 Naphthalene

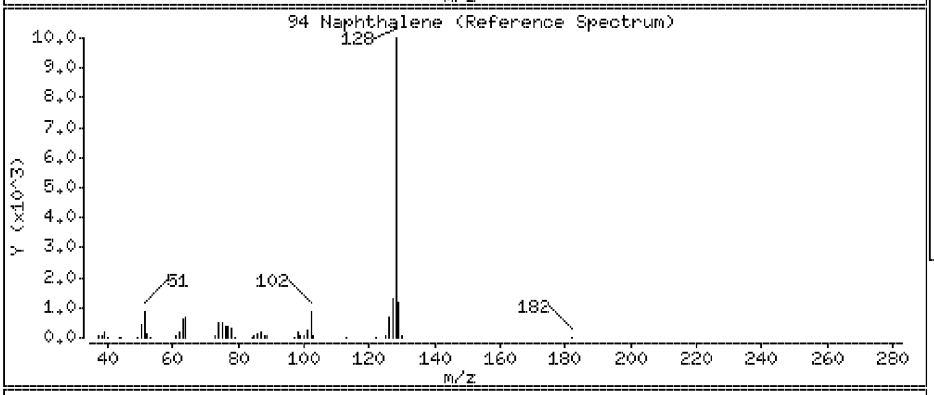
Concentration: 0.867 ppbv

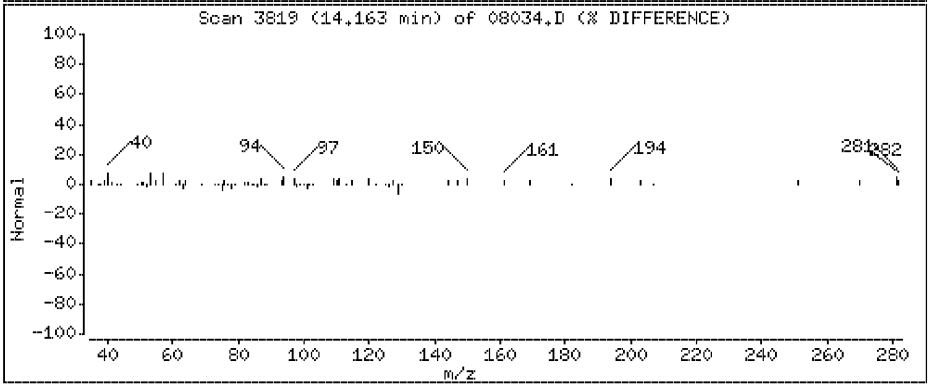






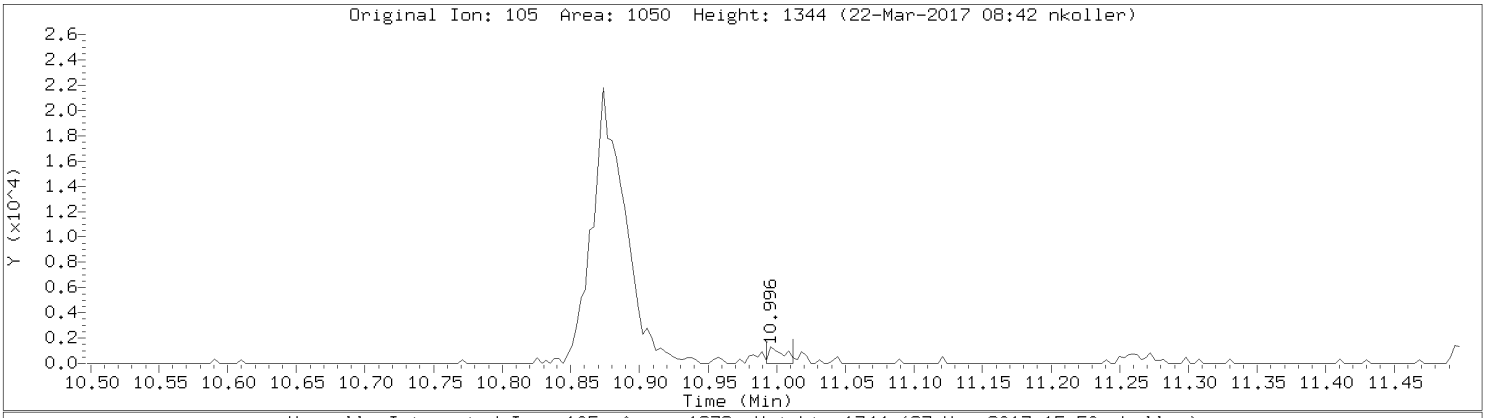


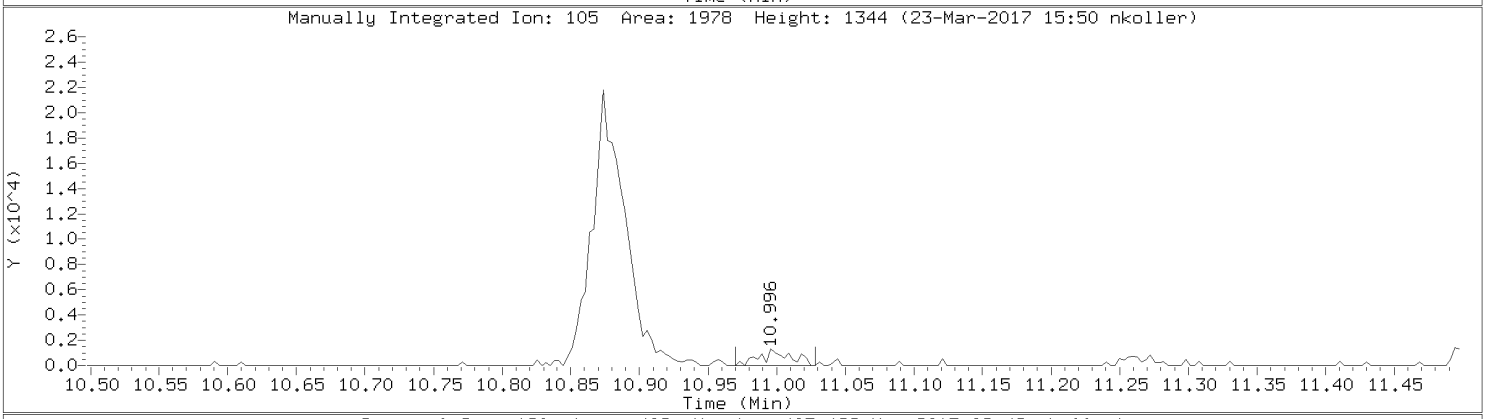


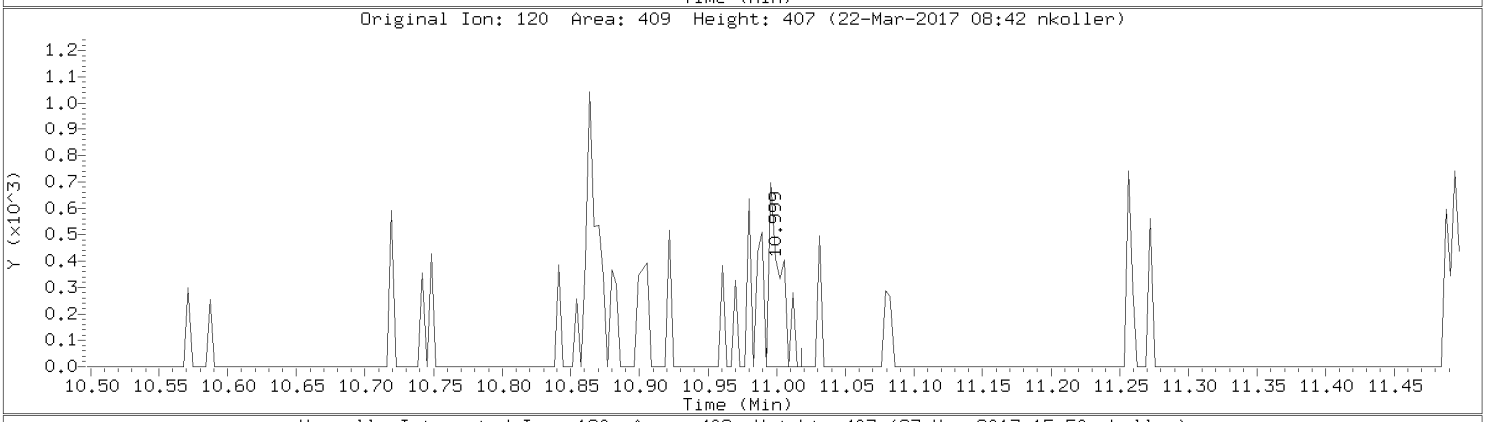


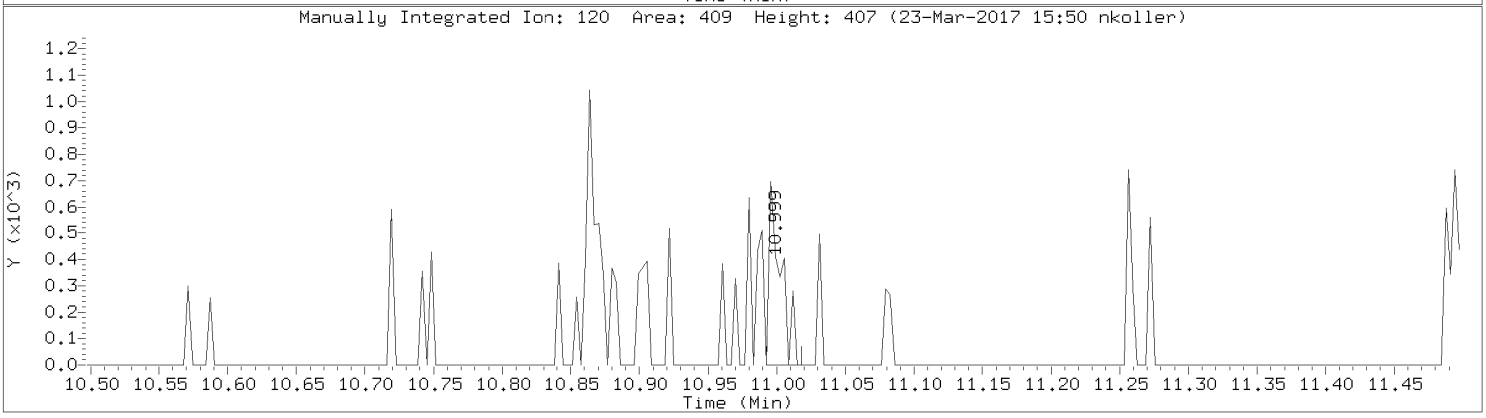
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08034.D
Injection Date: 22-MAR-2017 01:42
Instrument: 10airB.i
Lab Sample ID: 10381035021

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



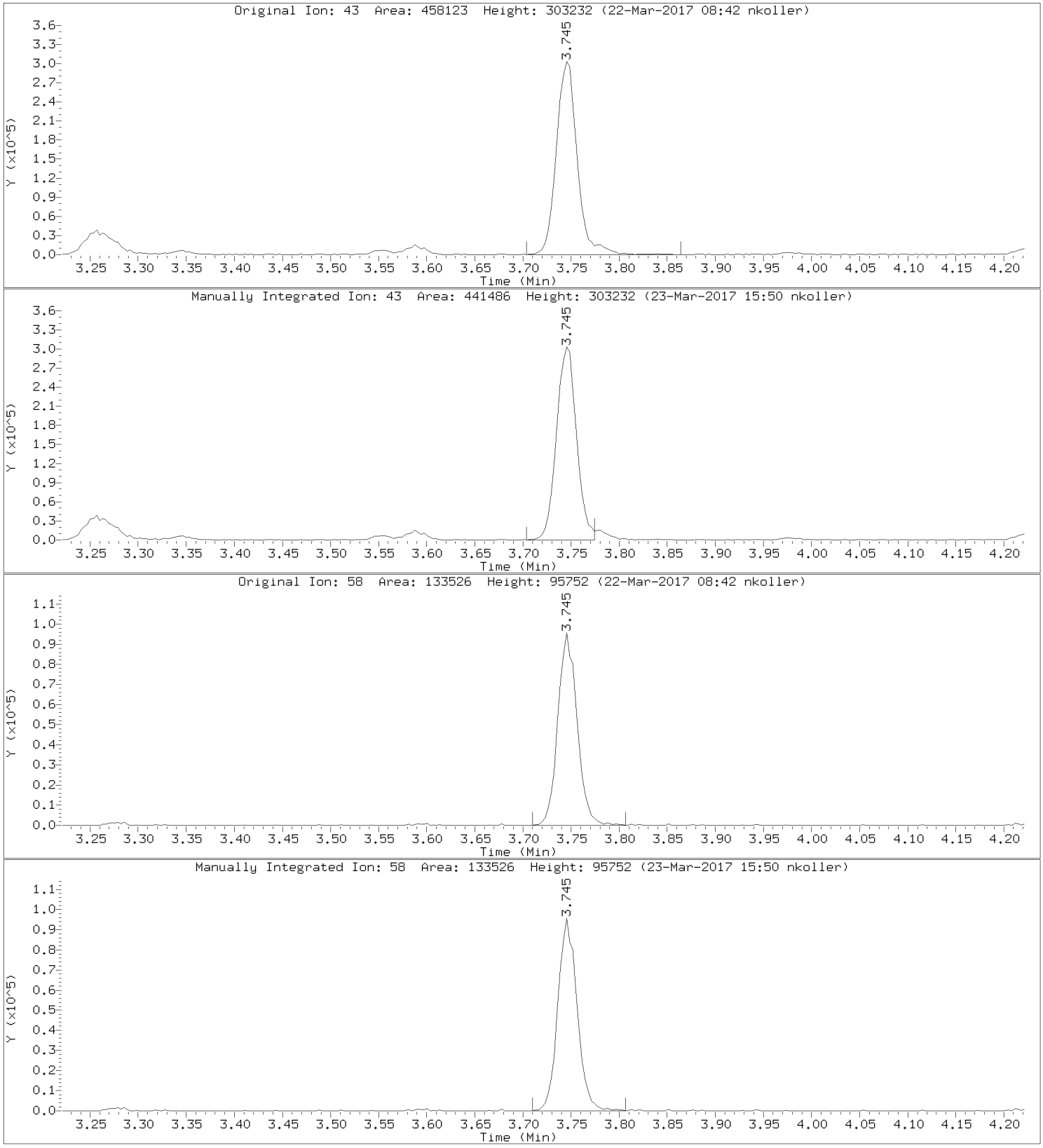






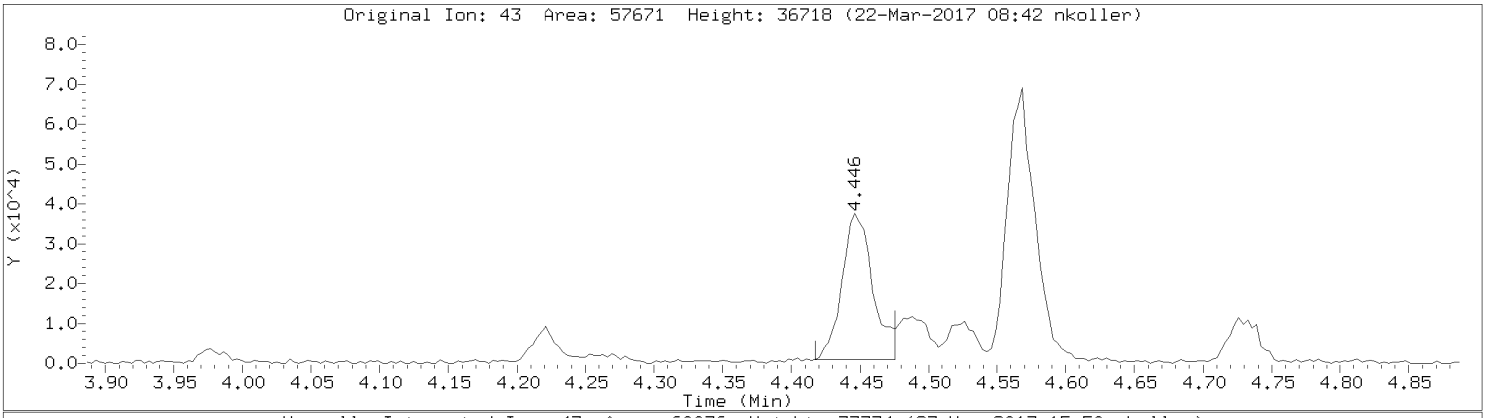
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08034.D
Injection Date: 22-MAR-2017 01:42
Instrument: 10airB.i
Lab Sample ID: 10381035021

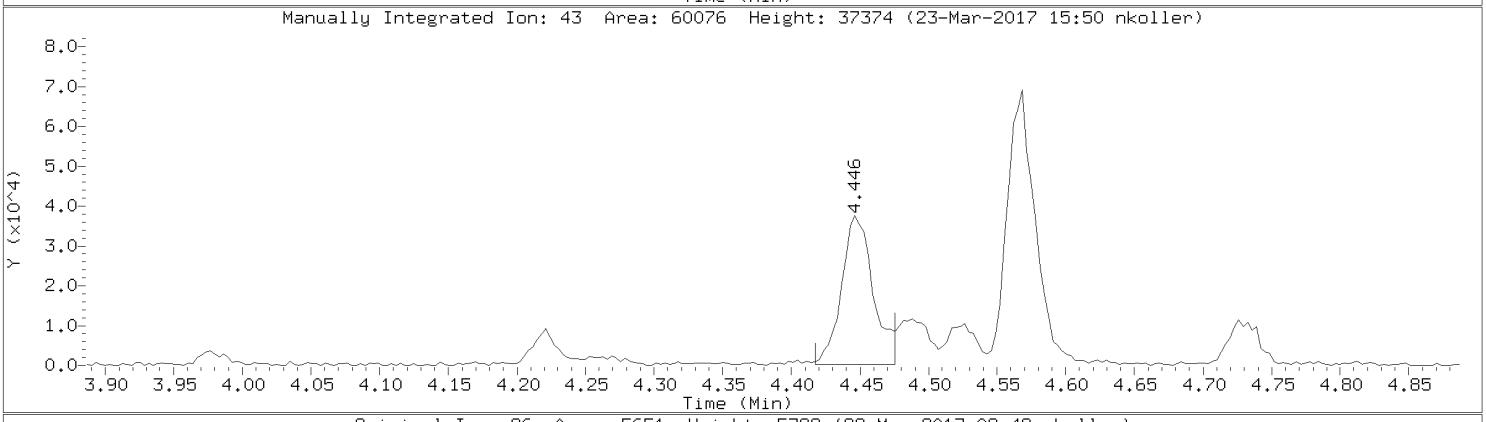
Compound: Acetone
CAS Number: 67-64-1

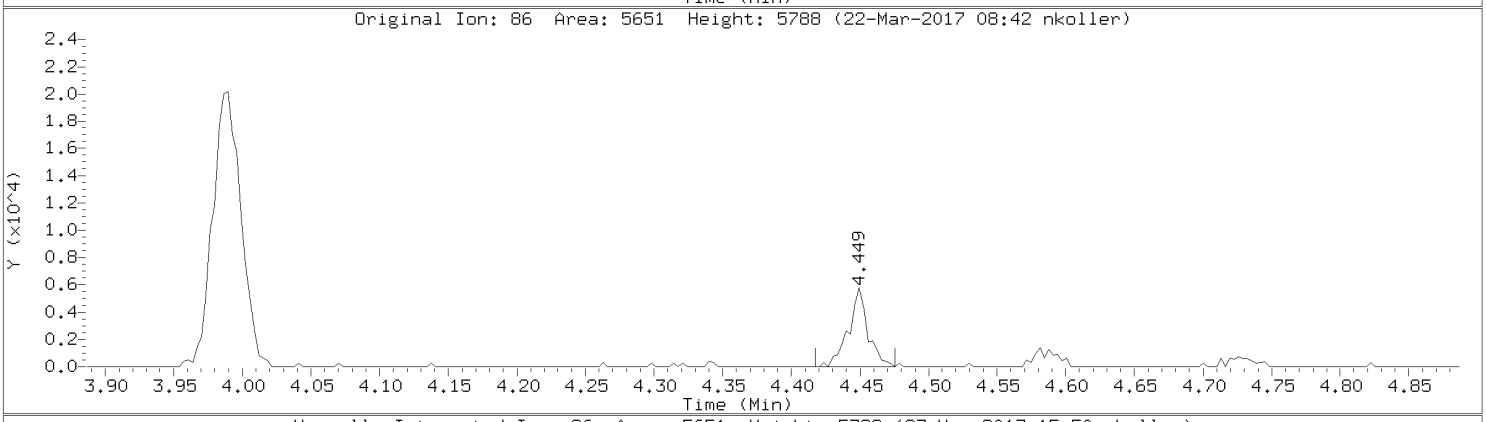


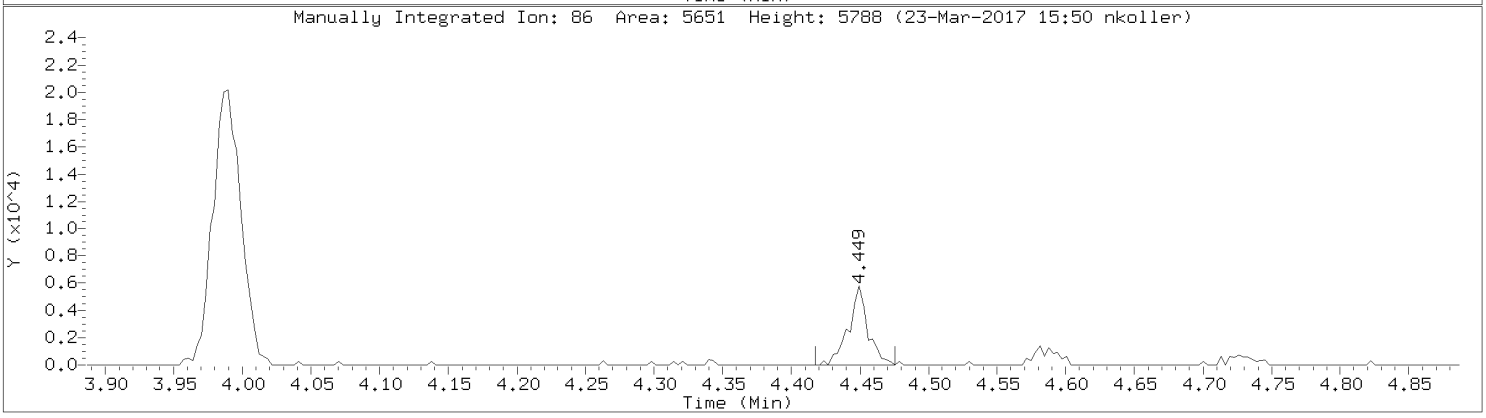
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08034.D
Injection Date: 22-MAR-2017 01:42
Instrument: 10airB.i
Lab Sample ID: 10381035021

Compound: Vinyl Acetate
CAS Number: 108-05-4



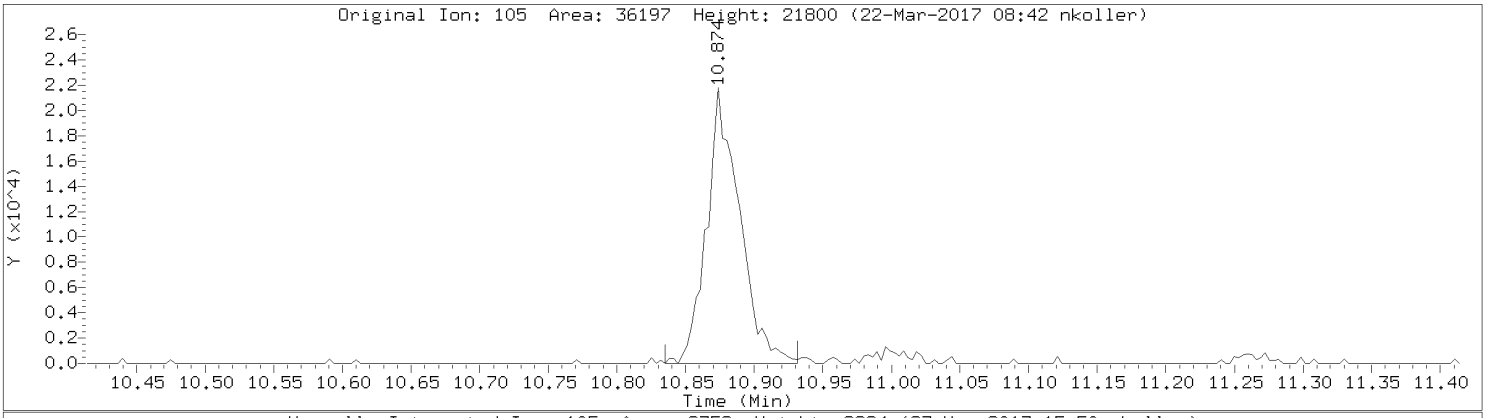


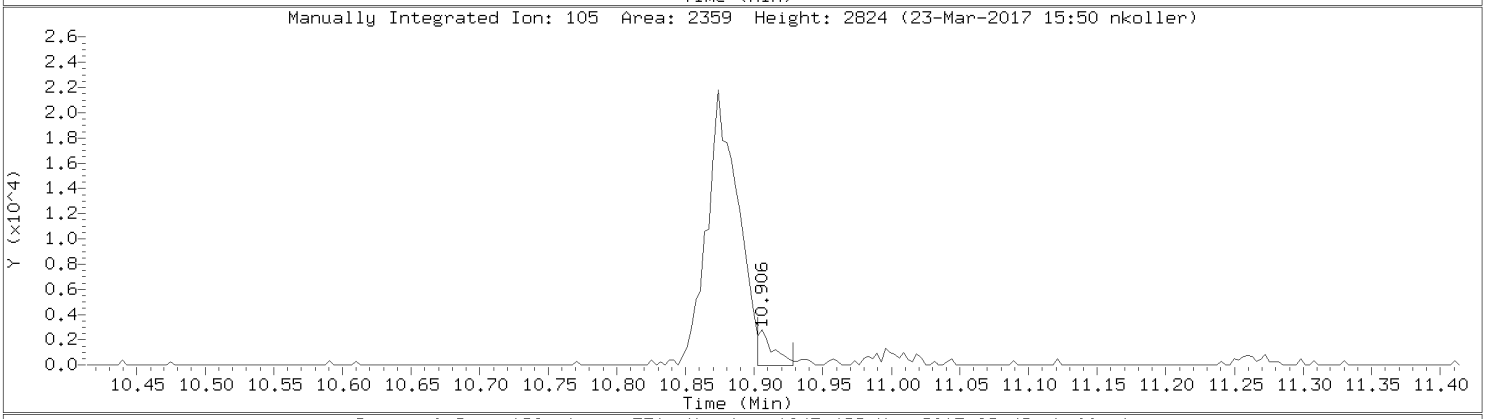


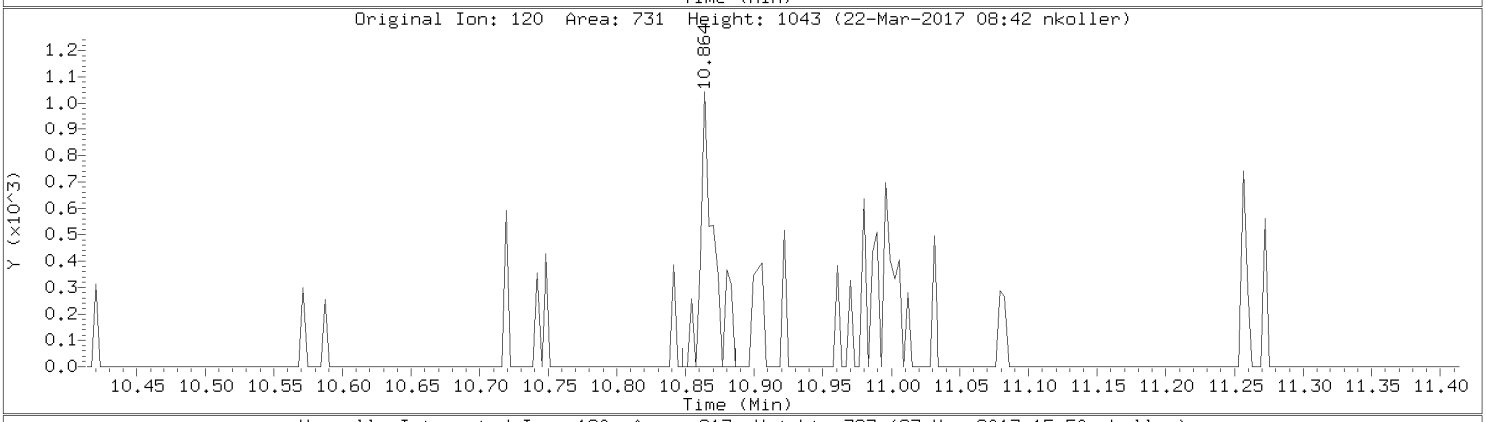


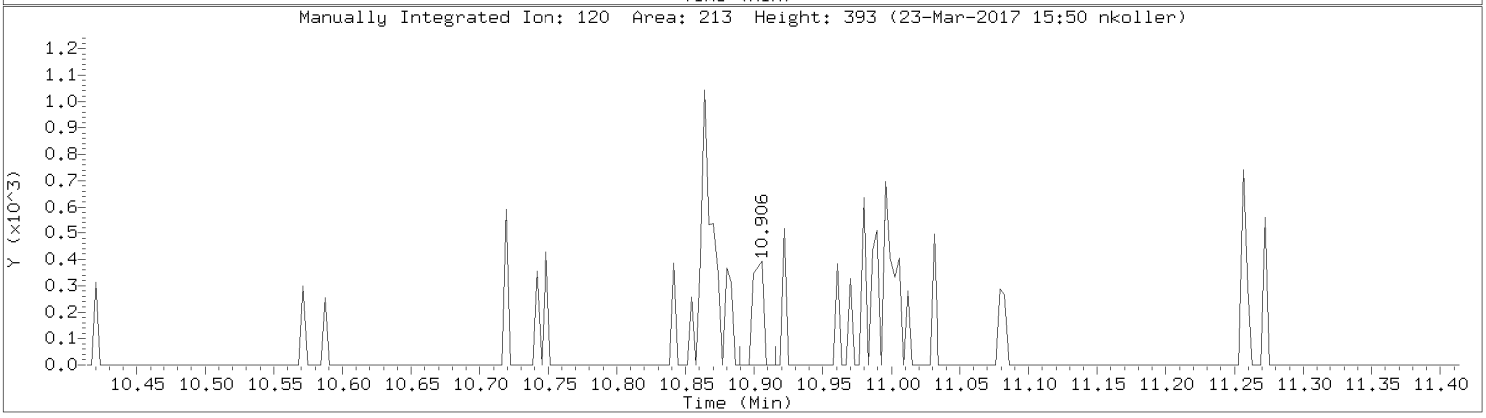
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08034.D
Injection Date: 22-MAR-2017 01:42
Instrument: 10airB.i
Lab Sample ID: 10381035021

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

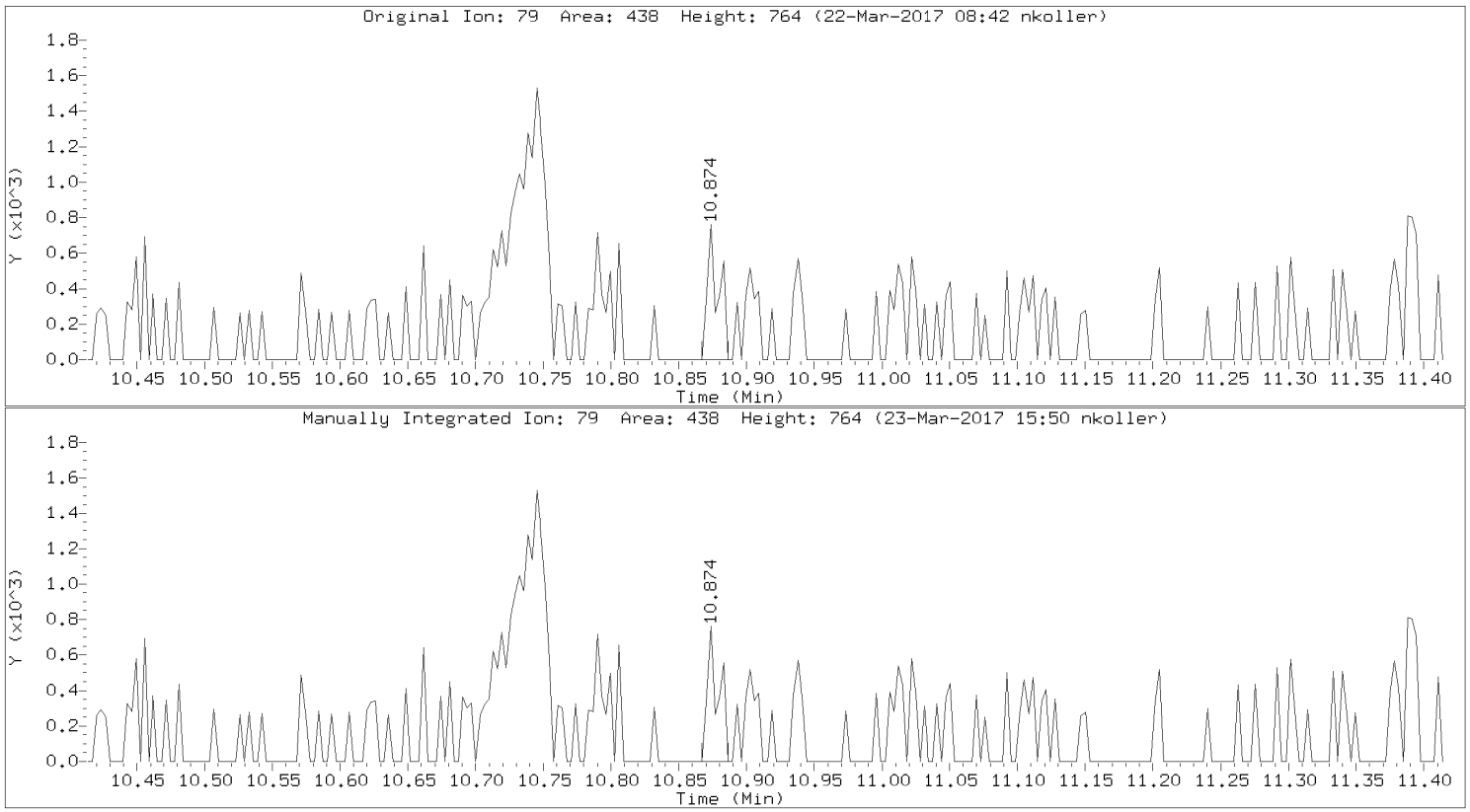






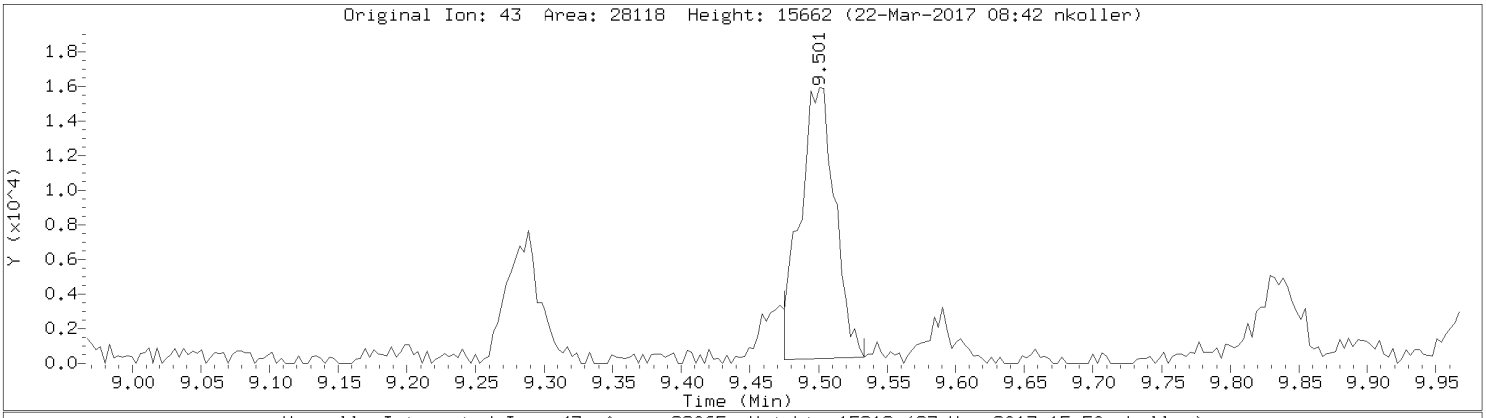


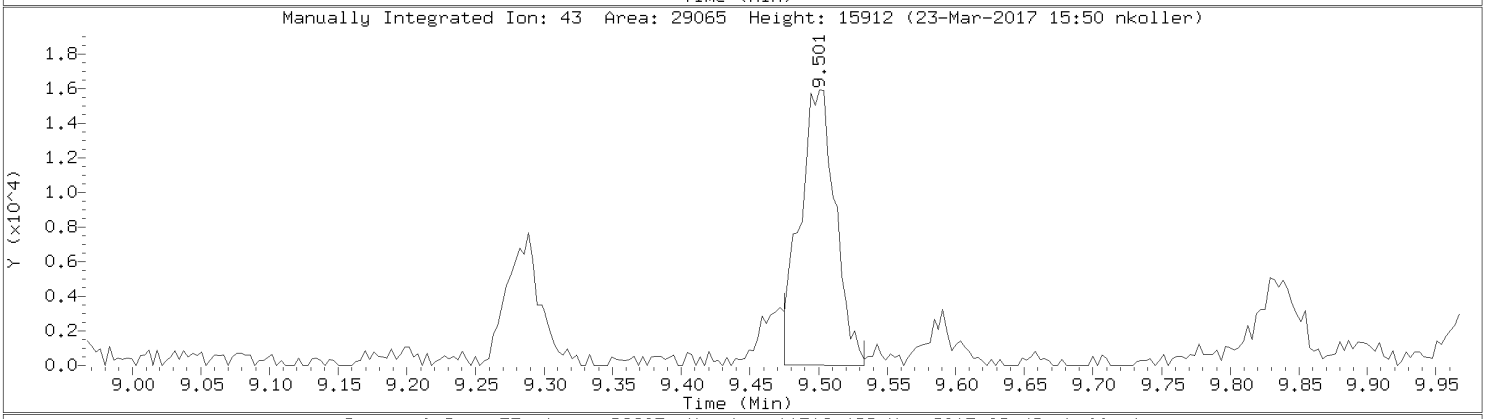
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08034.D
Injection Date: 22-MAR-2017 01:42
Instrument: 10airB.i
Lab Sample ID: 10381035021

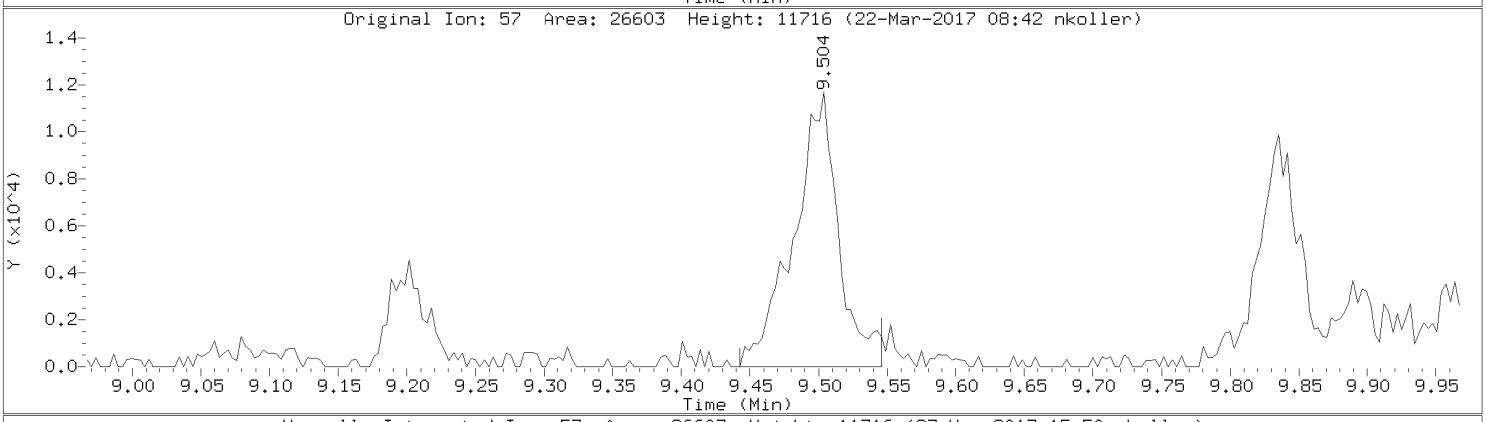


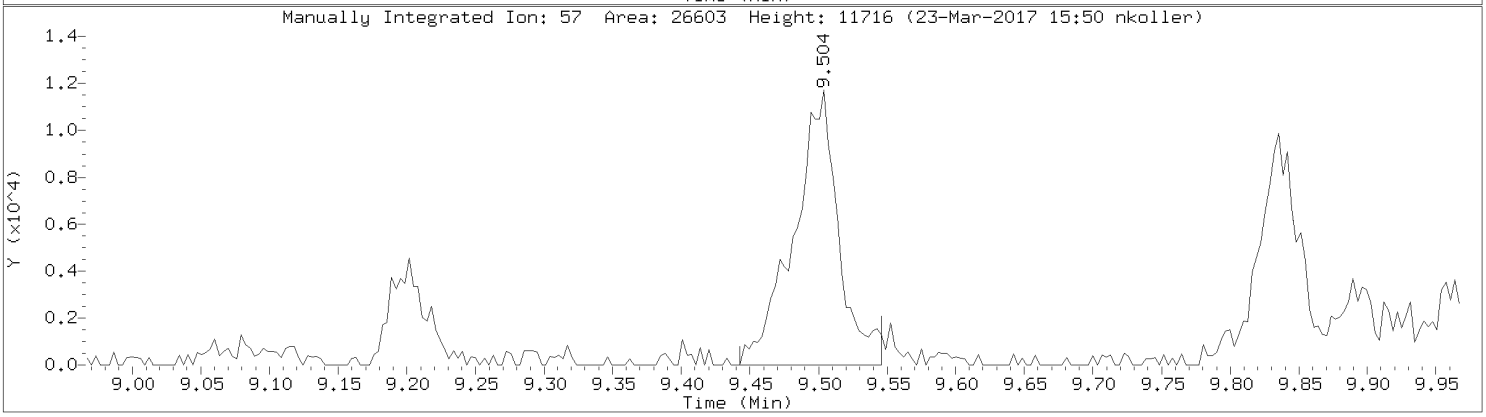
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08034.D
Injection Date: 22-MAR-2017 01:42
Instrument: 10airB.i
Lab Sample ID: 10381035021

Compound: n-Nonane
CAS Number: 111-84-2

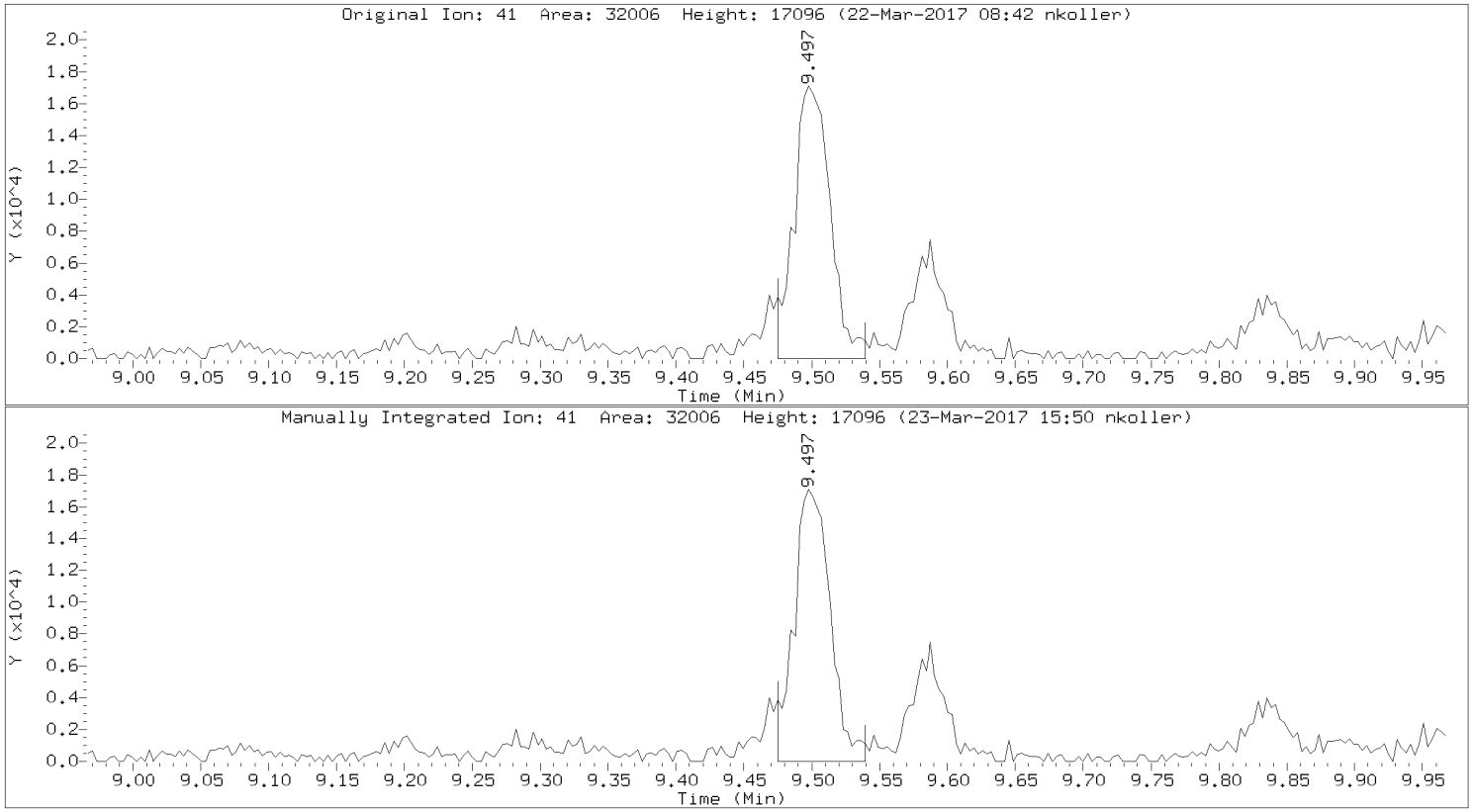








Data File: \\192.168.10.12\chem\10airB.i\032117.b/08034.D
Injection Date: 22-MAR-2017 01:42
Instrument: 10airB.i
Lab Sample ID: 10381035021



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08143.D
Report Date: 23-Mar-2017 14:22

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032217.b\08143.D
Lab Smp Id: 10381035021
Inj Date : 23-MAR-2017 07:06
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Meth Date : 23-Mar-2017 13:56 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 43
Dil Factor: 84.00000
Integrator: HP RTE Compound Sublist: CLmini.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	84.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
	8 Vinyl chloride	62	Compound Not Detected.						(D)
	20 1,1-Dichloroethene	61	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
$	32 Hexane-d14(S)	66	4.487	4.494	(0.801)	1907626	9.33241	9.33	
	37 cis-1,2-Dichloroethene	96	4.703	4.729	(0.839)	425820	8.18245	687(Q)	
*	47 1,4-Difluorobenzene	114	5.603	5.613	(1.000)	5963842	10.0000		
	51 Trichloroethene	130	5.976	5.989	(1.067)	51335	0.63919	53.7	
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5215567	9.49690	9.50	
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	257145	3.07058	258	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	3691831	10.0000		
$	85 1,4-dichlorobenzene-d4 (S)	150	11.850	11.851	(1.372)	1458880	8.18877	8.19	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08143.D
Report Date: 23-Mar-2017 14:22

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08143.D
Lab Smp Id: 10381035021
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 22-MAR-2017
Calibration Time: 09:05
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

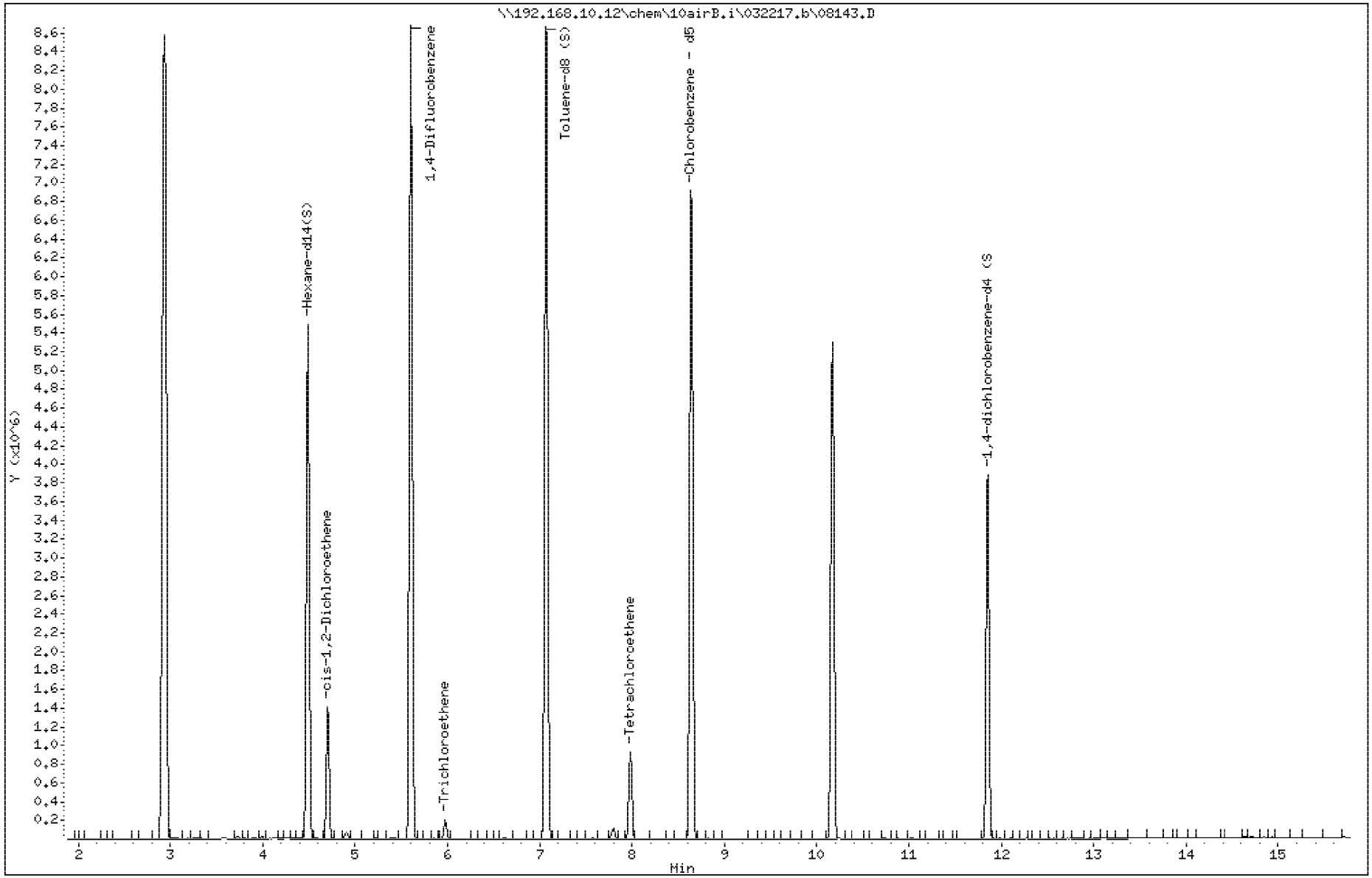
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	5963842	-21.95
67 Chlorobenzene - d	5205948	3123569	7288327	3691831	-29.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08143.D
Date : 23-MAR-2017 07:06
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08143.D

Date : 23-MAR-2017 07:06

Client ID:

Instrument: 10airB.i

Sample Info:

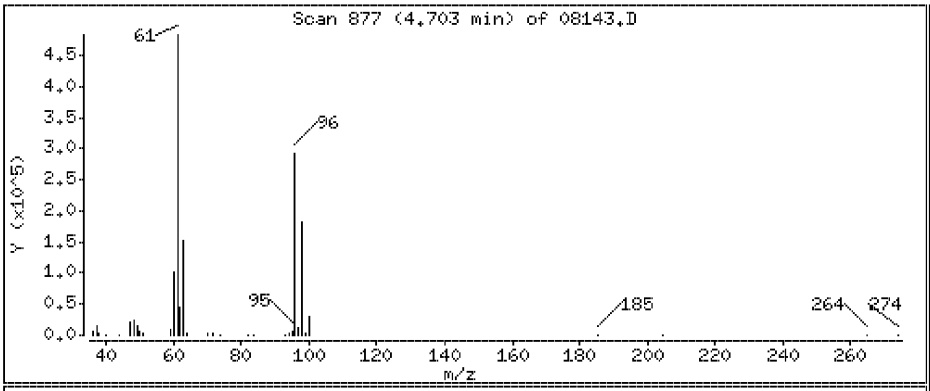
Operator: NCK

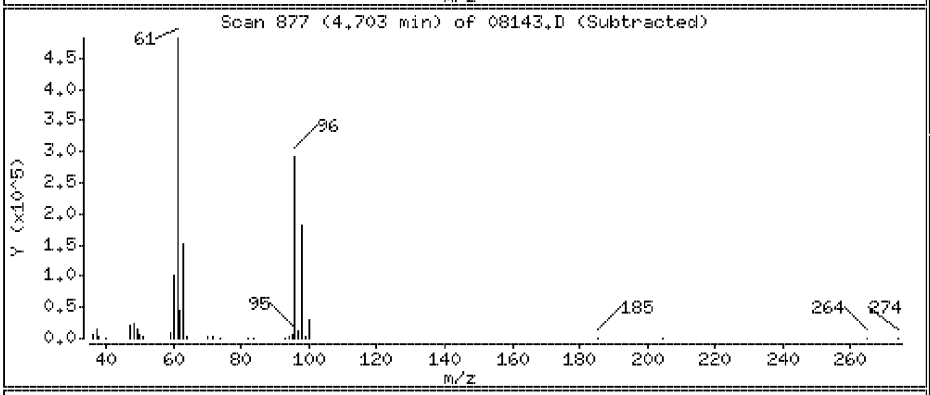
Column phase: J&W DB-5

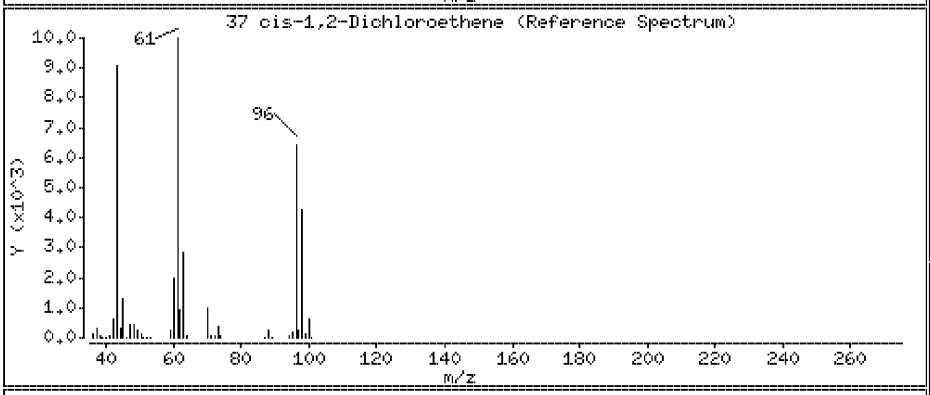
Column diameter: 0.32

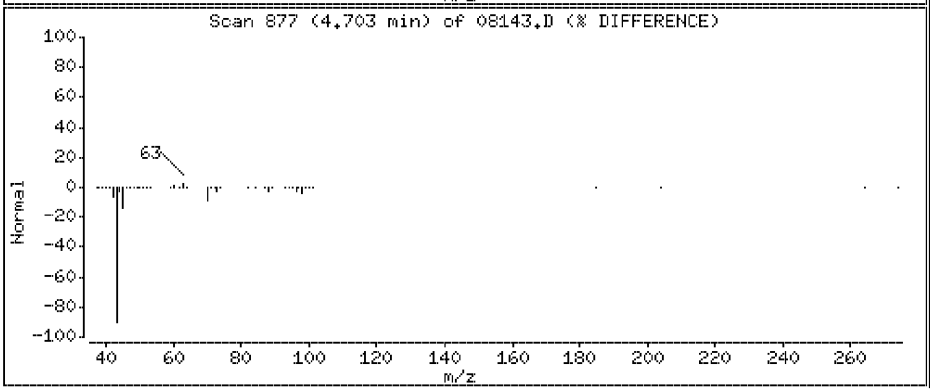
37 cis-1,2-Dichloroethene

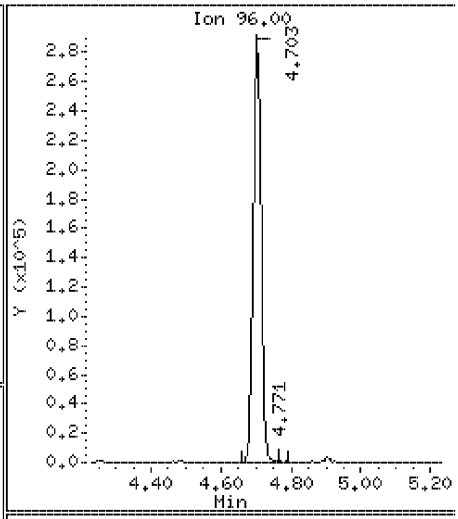
Concentration: 687 ppbv

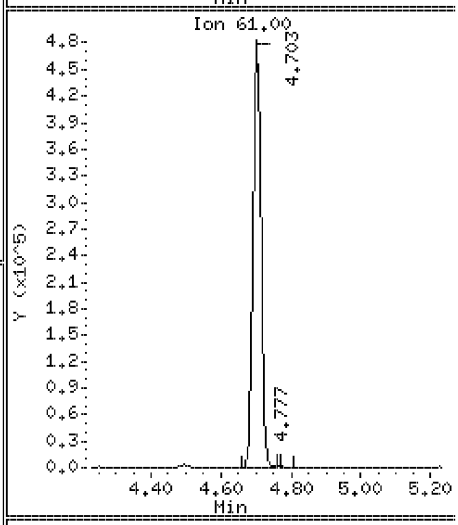


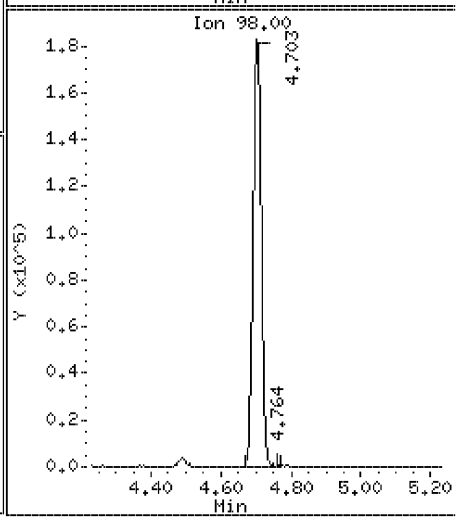












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08143.D

Date : 23-MAR-2017 07:06

Client ID:

Instrument: 10airB.i

Sample Info:

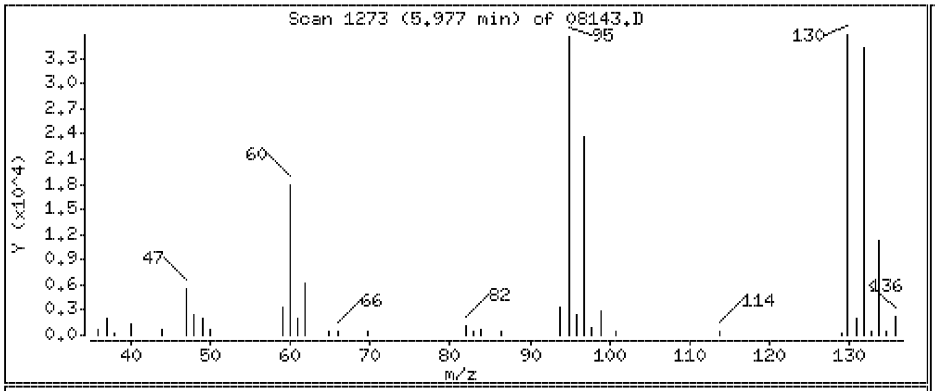
Operator: NCK

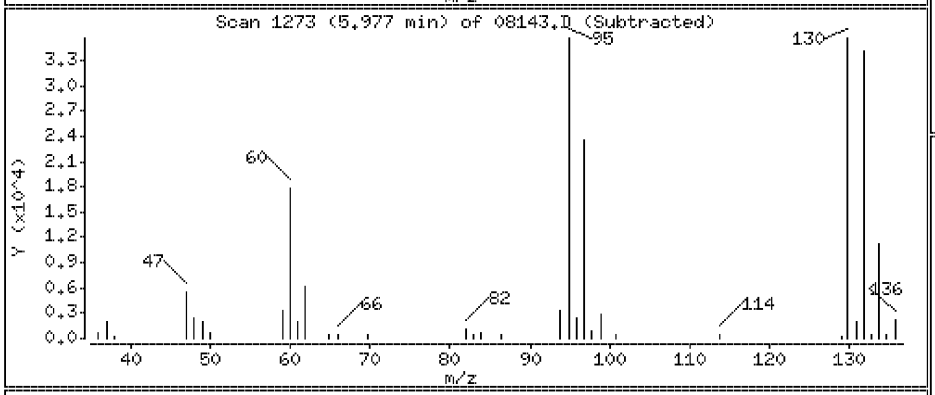
Column phase: J&W DB-5

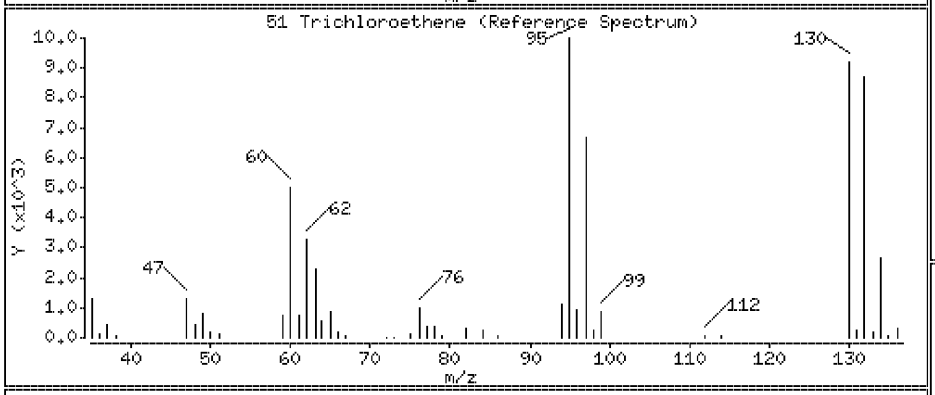
Column diameter: 0.32

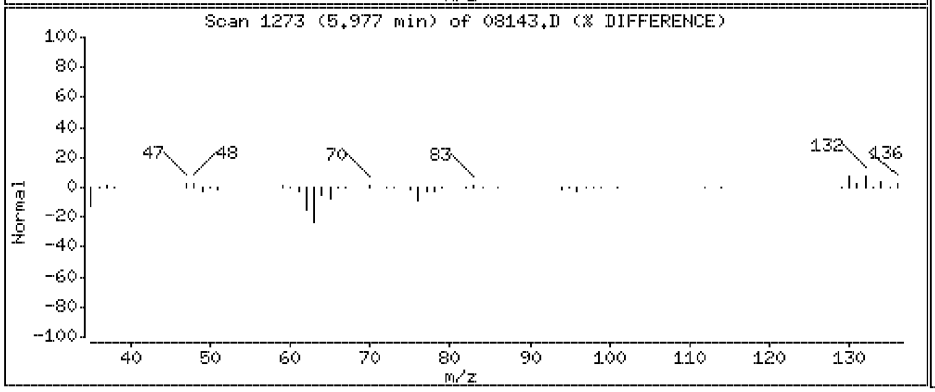
51 Trichloroethene

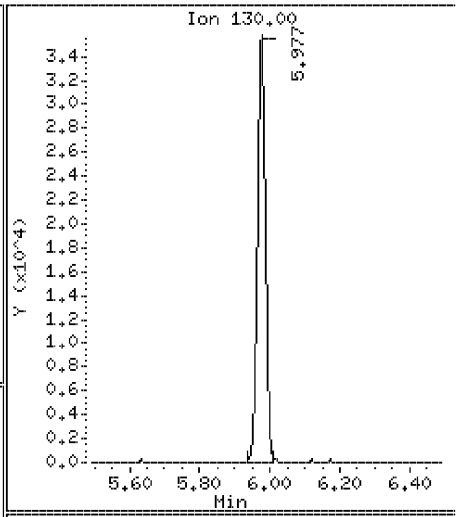
Concentration: 53.7 ppbv

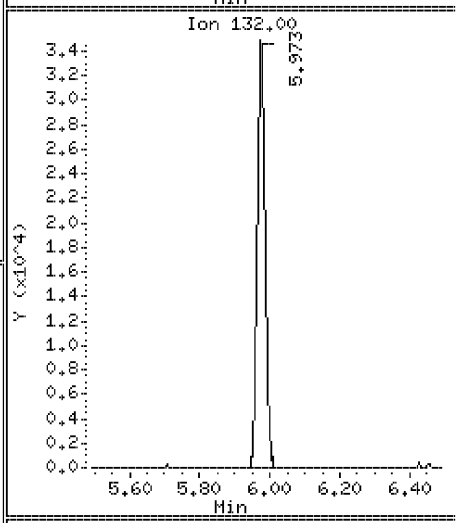


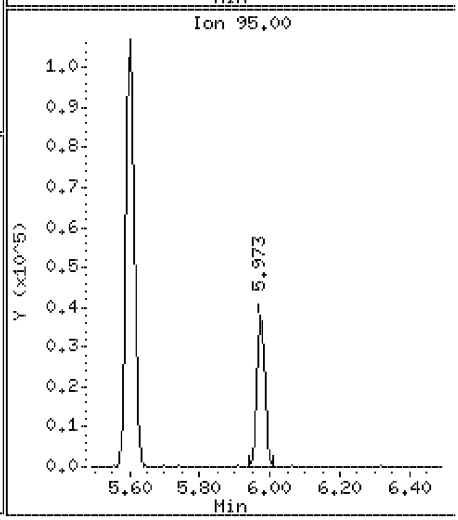












Data File: \\192.168.10.12\chem\10airB.i\032217.b\08143.D

Date : 23-MAR-2017 07:06

Client ID:

Instrument: 10airB.i

Sample Info:

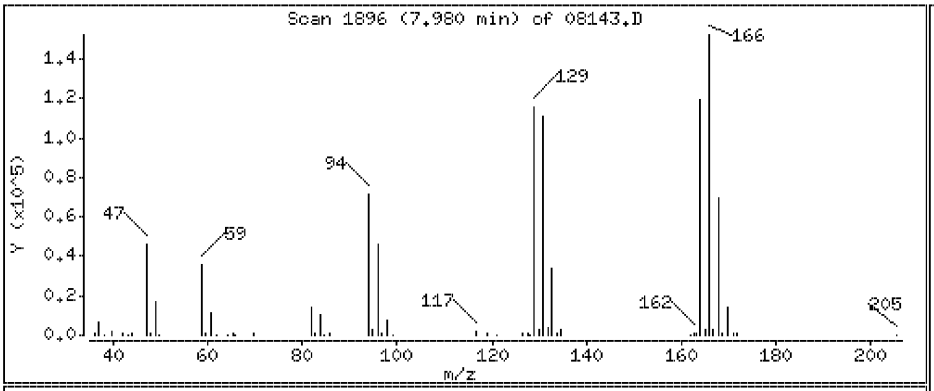
Operator: NCK

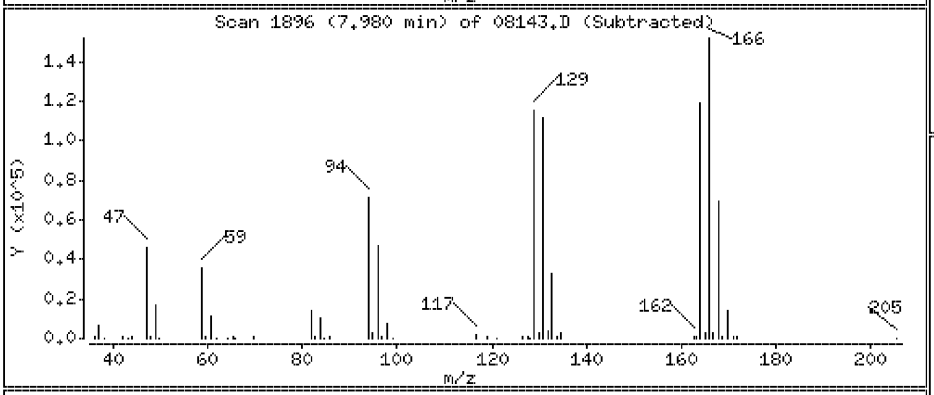
Column phase: J&W DB-5

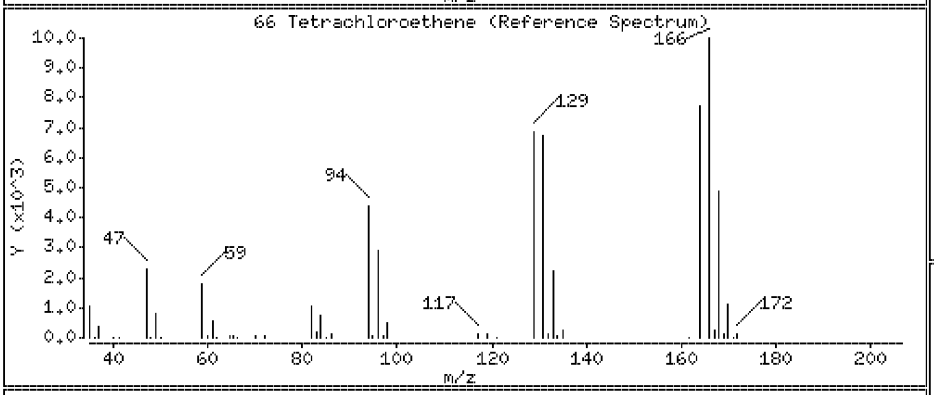
Column diameter: 0.32

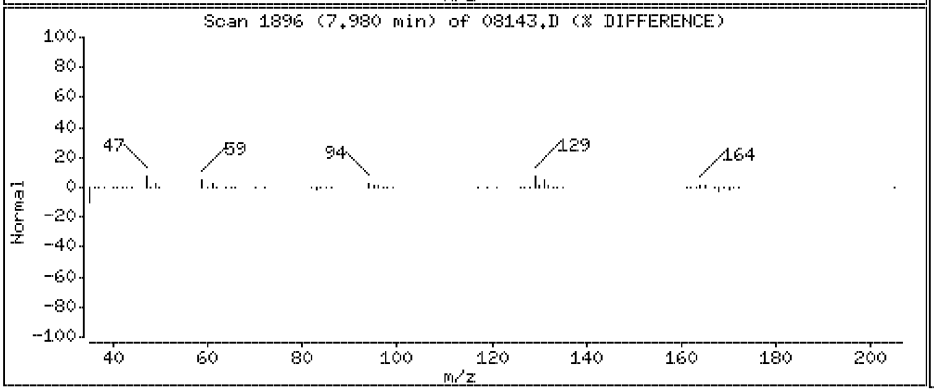
66 Tetrachloroethene

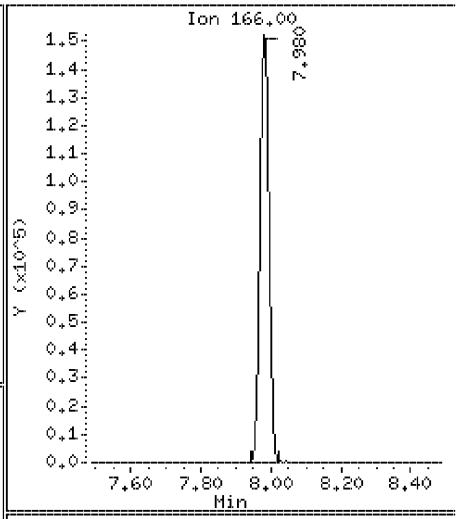
Concentration: 258 ppbv

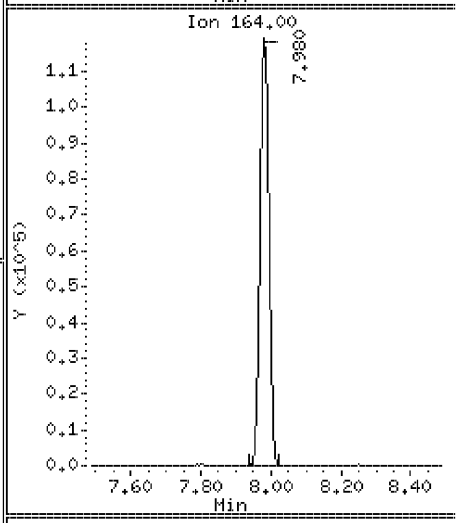


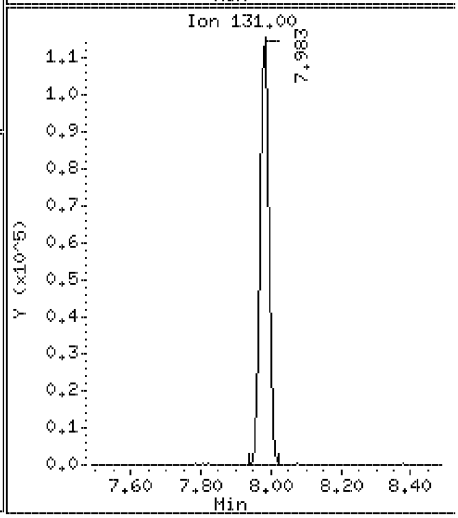












Data File: \\192.168.10.12\chem\10airB.i\032217.b/08143.D
Injection Date: 23-MAR-2017 07:06
Instrument: 10airB.i
Lab Sample ID: 10381035021
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_10_20170302DUP **Lab ID: 10381035021** Collected: 03/02/17 12:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/22/17 01:42	1634-04-4	
2-Propanol	**<0.40**	ug/m3	4.2	0.40	1.68		03/22/17 01:42	67-63-0	
Styrene	**1.0J**	ug/m3	1.5	0.32	1.68		03/22/17 01:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/22/17 01:42	79-34-5	
Tetrachloroethene	**1090**	ug/m3	1.2	0.47	1.68		03/22/17 01:42	127-18-4	
Tetrachloroethene	**1780**	ug/m3	57.9	23.4	84		03/23/17 07:06	127-18-4	
Toluene	**1.3**	ug/m3	1.3	0.26	1.68		03/22/17 01:42	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/22/17 01:42	120-82-1	
1,1,1-Trichloroethane	**7.5**	ug/m3	1.9	0.41	1.68		03/22/17 01:42	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/22/17 01:42	79-00-5	
Trichloroethene	**271**	ug/m3	0.92	0.46	1.68		03/22/17 01:42	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	1.9	0.22	1.68		03/22/17 01:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.5J**	ug/m3	2.7	0.51	1.68		03/22/17 01:42	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.21	1.68		03/22/17 01:42	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.31	1.68		03/22/17 01:42	108-67-8	
Vinyl chloride	**8.2**	ug/m3	0.44	0.33	1.68		03/22/17 01:42	75-01-4	
m&p-Xylene	**1.6J**	ug/m3	3.0	1.3	1.68		03/22/17 01:42	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/22/17 01:42	95-47-6	

Sample: VP-1_30_20170302DUP **Lab ID: 10381035022** Collected: 03/02/17 12:16 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**8.7**	ug/m3	4.2	1.5	1.75		03/22/17 02:14	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/22/17 02:14	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/22/17 02:14	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/22/17 02:14	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/22/17 02:14	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/22/17 02:14	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/22/17 02:14	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/22/17 02:14	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/22/17 02:14	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/22/17 02:14	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/22/17 02:14	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/22/17 02:14	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/22/17 02:14	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/22/17 02:14	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/22/17 02:14	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/22/17 02:14	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/22/17 02:14	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/22/17 02:14	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/22/17 02:14	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/22/17 02:14	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_30_20170302DUP **Lab ID: 10381035022** Collected: 03/02/17 12:16 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/22/17 02:14	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/22/17 02:14	541-73-1	
1,4-Dichlorobenzene	**1.8J**	ug/m3	2.1	0.87	1.75		03/22/17 02:14	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/22/17 02:14	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/22/17 02:14	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/22/17 02:14	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/22/17 02:14	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/22/17 02:14	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/22/17 02:14	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/22/17 02:14	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/22/17 02:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/22/17 02:14	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/22/17 02:14	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/22/17 02:14	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/22/17 02:14	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/22/17 02:14	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/22/17 02:14	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/22/17 02:14	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/22/17 02:14	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/22/17 02:14	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/22/17 02:14	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/22/17 02:14	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/22/17 02:14	108-87-2	
Methylene Chloride	**3.2J**	ug/m3	6.2	0.95	1.75		03/22/17 02:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/22/17 02:14	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/22/17 02:14	1634-04-4	
2-Propanol	**2.6J**	ug/m3	4.4	0.42	1.75		03/22/17 02:14	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.34	1.75		03/22/17 02:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/22/17 02:14	79-34-5	
Tetrachloroethene	**25.4**	ug/m3	1.2	0.49	1.75		03/22/17 02:14	127-18-4	
Toluene	**13.8**	ug/m3	1.3	0.27	1.75		03/22/17 02:14	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/22/17 02:14	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/22/17 02:14	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/22/17 02:14	79-00-5	
Trichloroethene	**193**	ug/m3	0.96	0.48	1.75		03/22/17 02:14	79-01-6	
Trichlorofluoromethane	**2.5**	ug/m3	2.0	0.23	1.75		03/22/17 02:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.4J**	ug/m3	2.8	0.53	1.75		03/22/17 02:14	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.22	1.75		03/22/17 02:14	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/22/17 02:14	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/22/17 02:14	75-01-4	
m&p-Xylene	**2.0J**	ug/m3	3.1	1.4	1.75		03/22/17 02:14	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/22/17 02:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D
Report Date: 23-Mar-2017 15:51

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08035.D
Lab Smp Id: 10381035022
Inj Date : 22-MAR-2017 02:14
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 35
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.542	3.545	(0.633)	121697	5.28156	9.24	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	3.565	3.603	(0.637)	35844	0.32311	0.565(QM)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.642	3.677	(0.651)	30792	0.24724	0.433	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.713	3.722	(0.663)	205114	2.06182	3.61	
19	Isopropyl Alcohol	45	3.770	3.764	(0.674)	72204	0.59441	1.04	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.922	3.951	(0.701)	10073	0.10615	0.186	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D
Report Date: 23-Mar-2017 15:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.970	4.005	(0.709)	42641	0.52137	0.912	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.491	(0.800)	2040262	9.67162	9.67	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	6154790	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.973	5.986	(1.067)	1675311	20.2127	35.4	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.263)	5439029	9.59654	9.60	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.146	7.153	(1.277)	422503	2.05222	3.59	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.982	7.986	(0.924)	190436	2.10809	3.69	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	3982400	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.066	9.082	(1.050)	19869	0.25954	0.454	
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.494	9.507	(1.099)	2484	0.14608	0.256	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D
Report Date: 23-Mar-2017 15:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	11.005	10.998	(1.274)	1467	0.14691	0.257(Q)	
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.500	11.510	(1.331)	4226	0.15072	0.264	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	1781236	9.26867	9.27	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	11.886	11.889	(1.376)	3468	0.16970	0.297(QM)	
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.031	12.034	(1.393)	1328	0.15430	0.270	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D
Report Date: 23-Mar-2017 15:51

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08035.D
Lab Smp Id: 10381035022
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

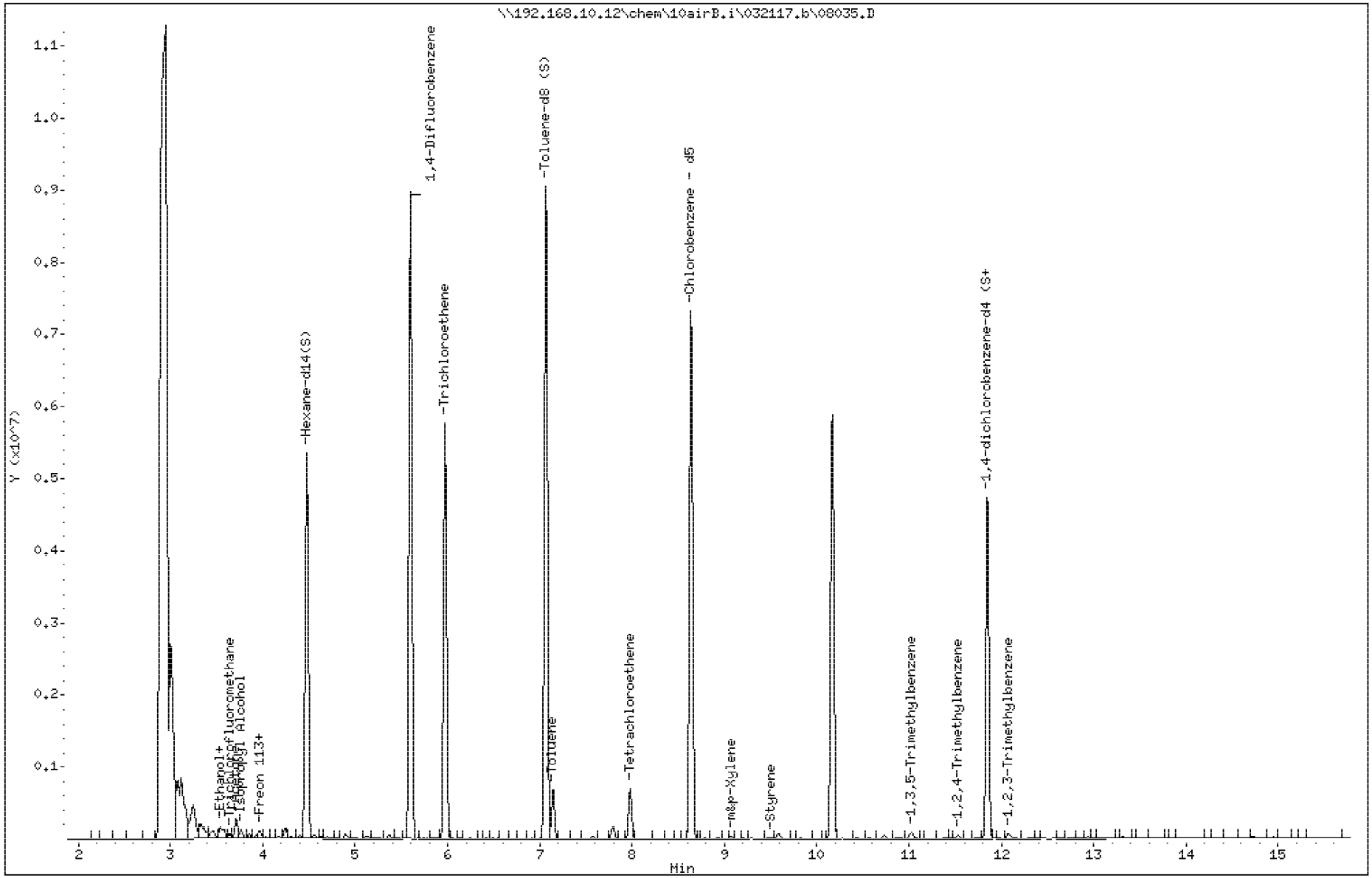
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6154790	-19.45
67 Chlorobenzene - d	5205948	3123569	7288327	3982400	-23.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D
Date : 22-MAR-2017 02:14
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

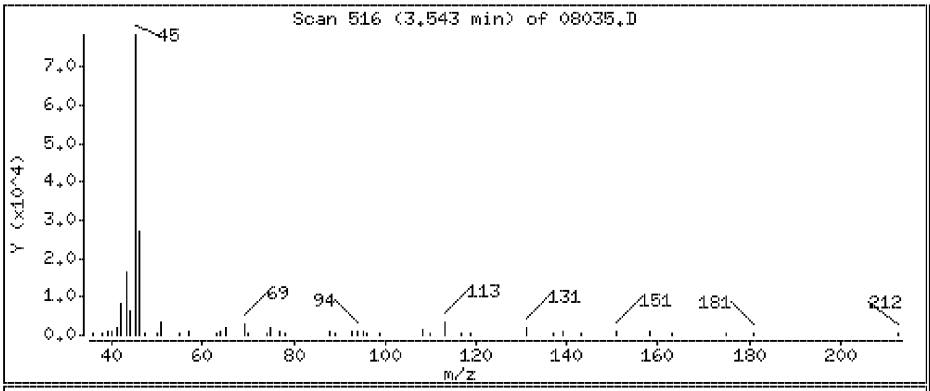
Operator: NCK

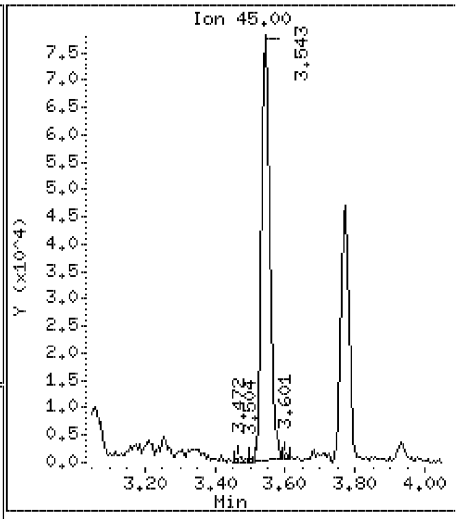
Column phase: J&W DB-5

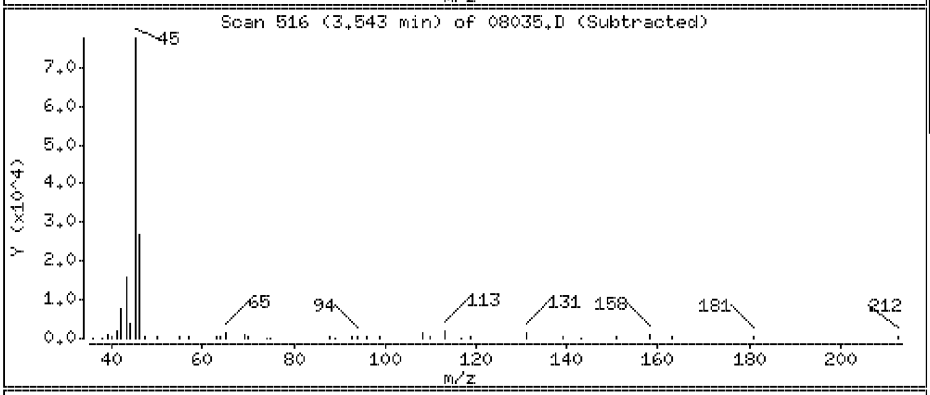
Column diameter: 0.32

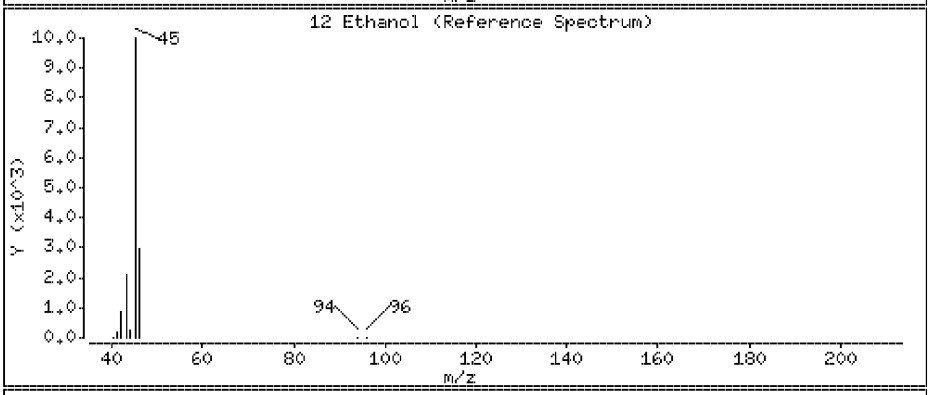
12 Ethanol

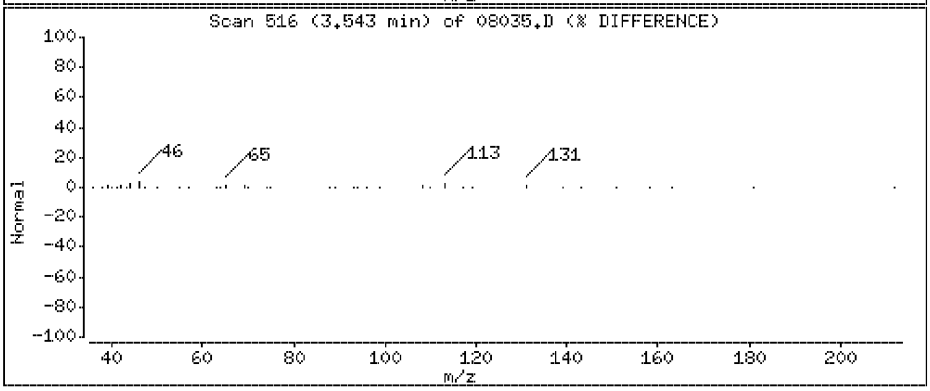
Concentration: 9.24 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

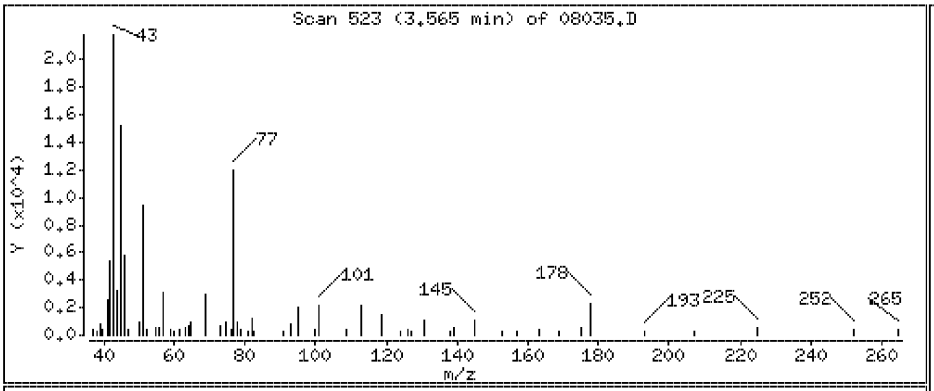
Operator: NCK

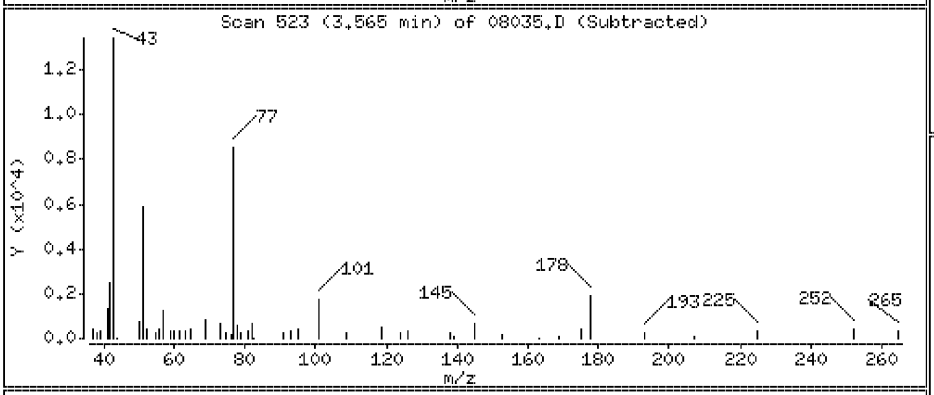
Column phase: J&W DB-5

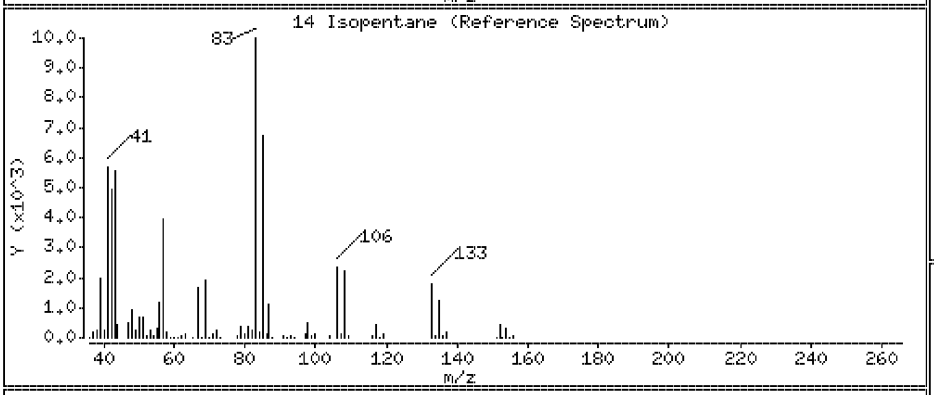
Column diameter: 0.32

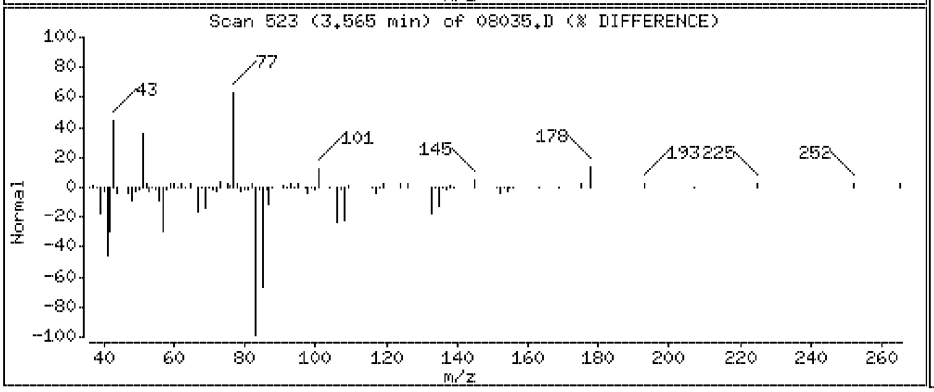
14 Isopentane

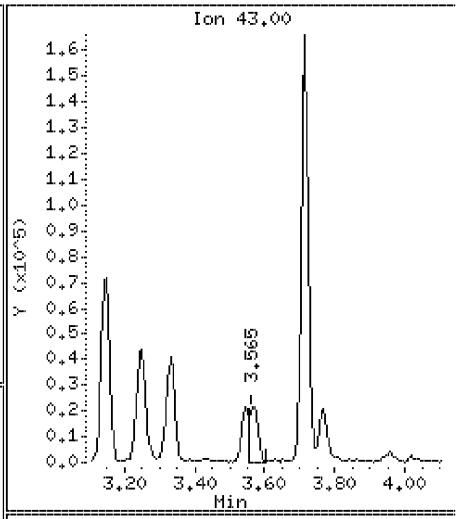
Concentration: 0.565 ppbv

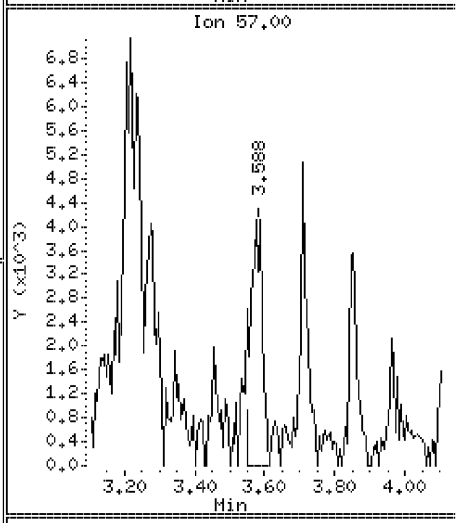


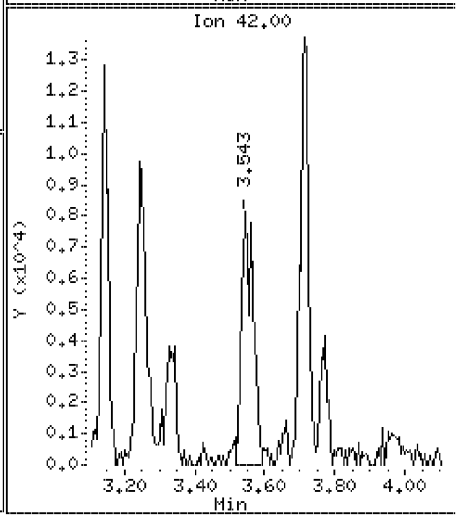












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

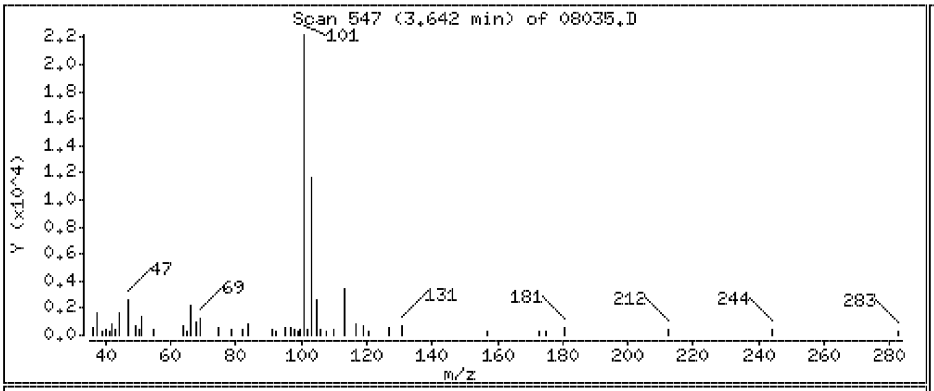
Operator: NCK

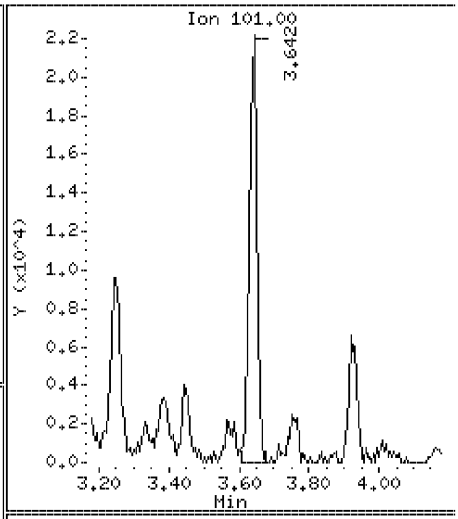
Column phase: J&W DB-5

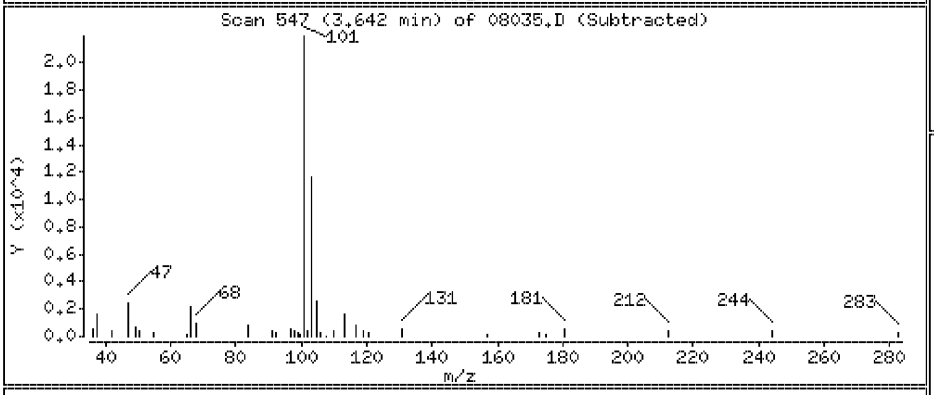
Column diameter: 0.32

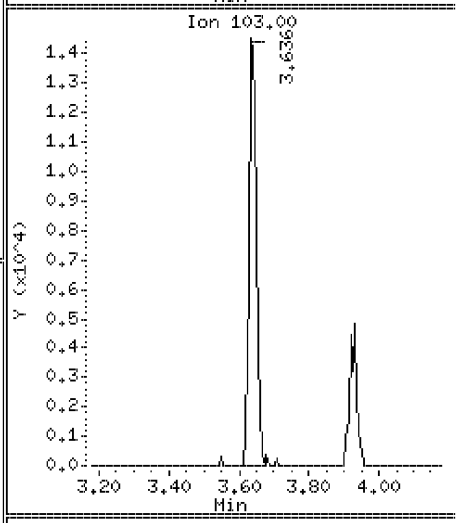
16 Trichlorofluoromethane

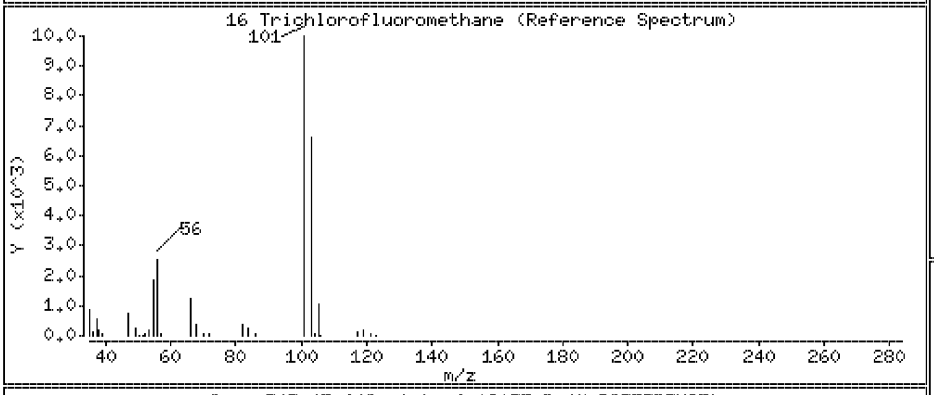
Concentration: 0.433 ppbv

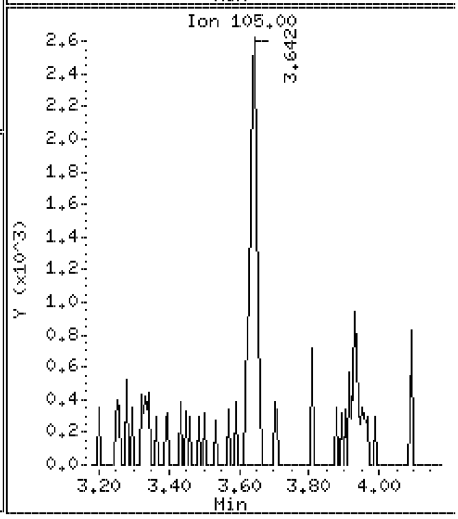


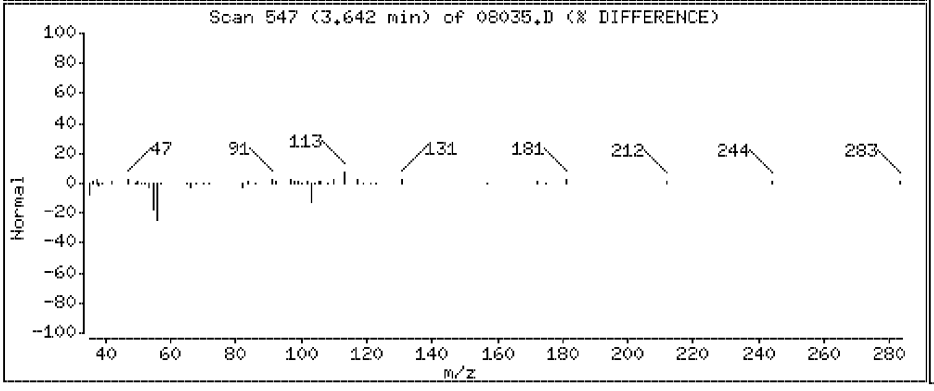












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

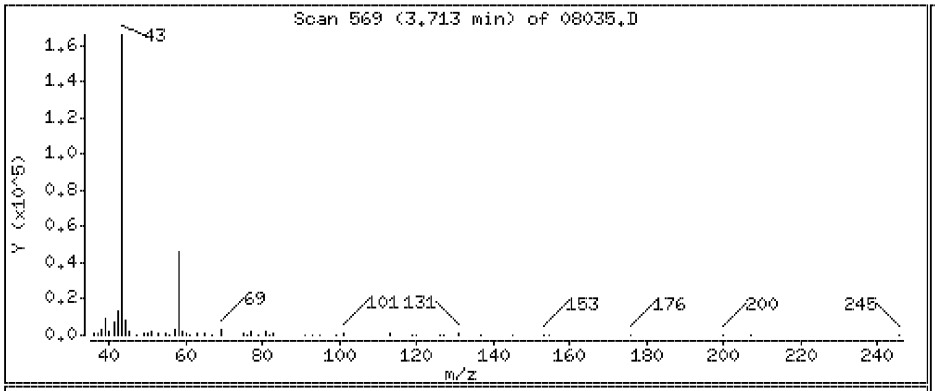
Operator: NCK

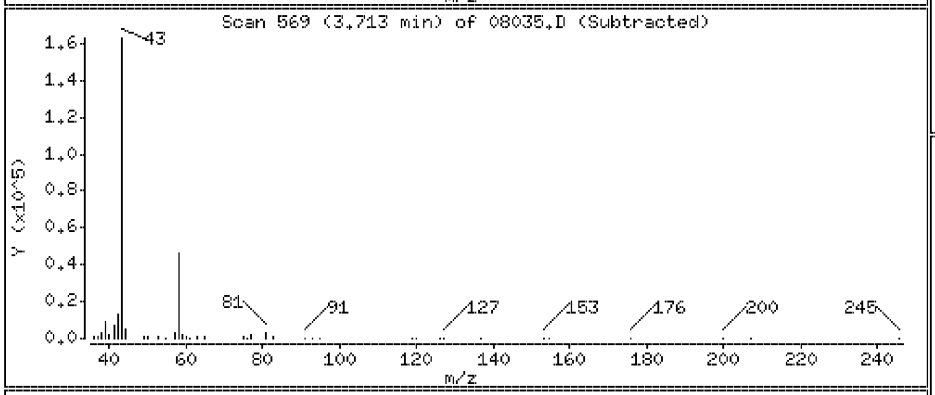
Column phase: J&W DB-5

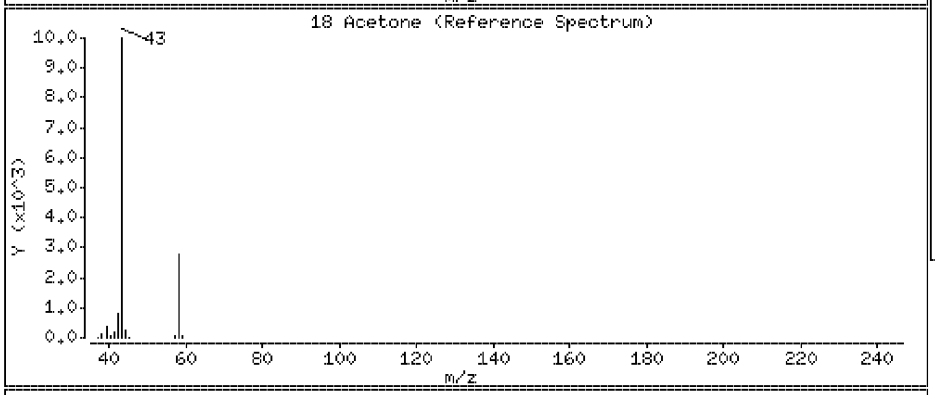
Column diameter: 0.32

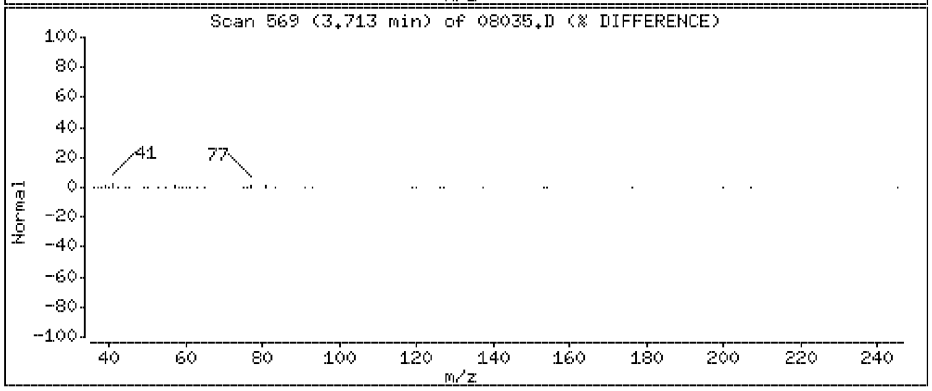
18 Acetone

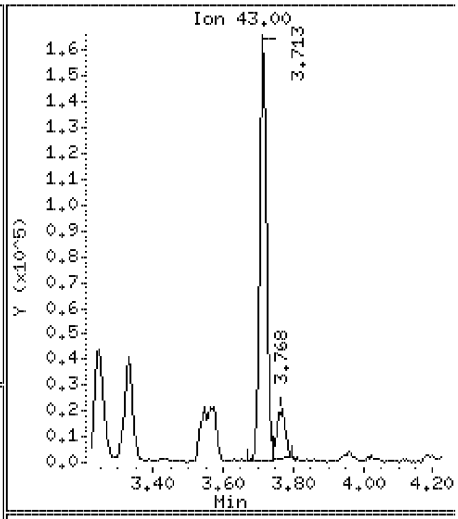
Concentration: 3.61 ppbv

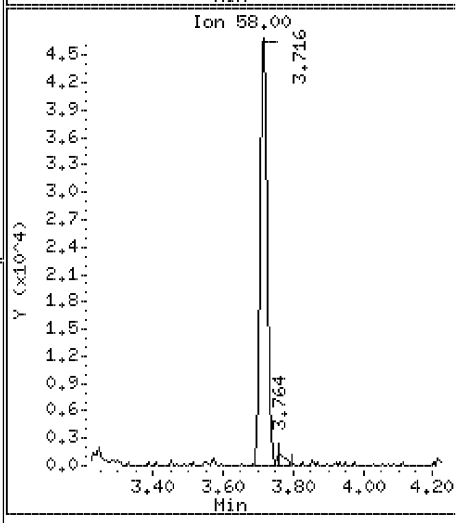












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

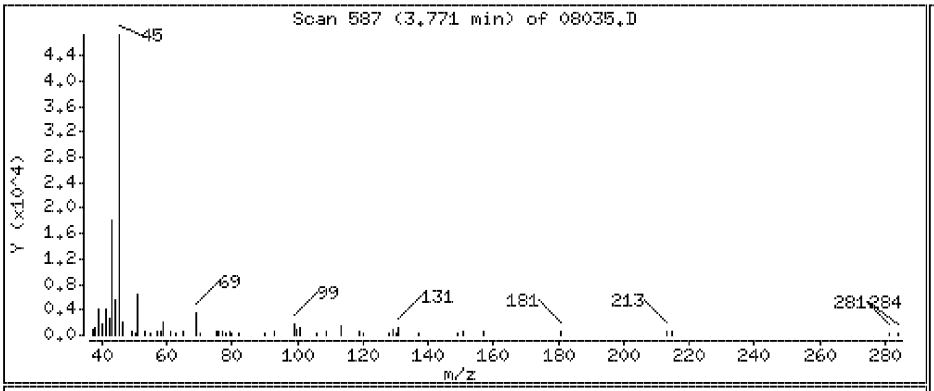
Operator: NCK

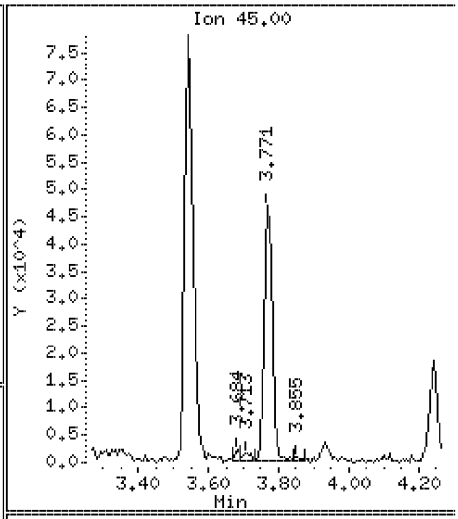
Column phase: J&W DB-5

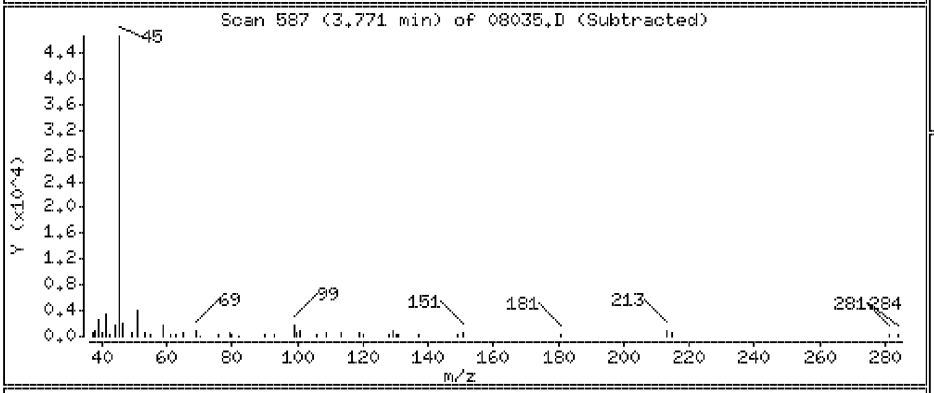
Column diameter: 0.32

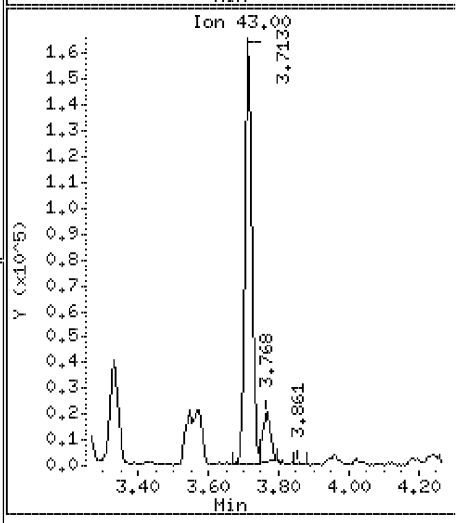
19 Isopropyl Alcohol

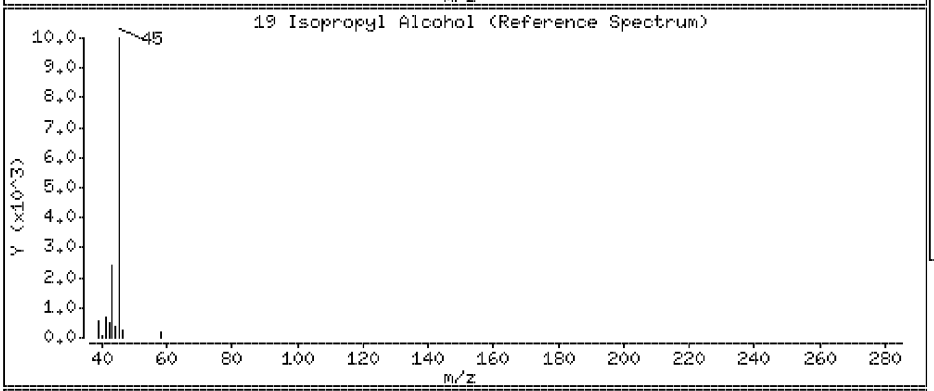
Concentration: 1.04 ppbv

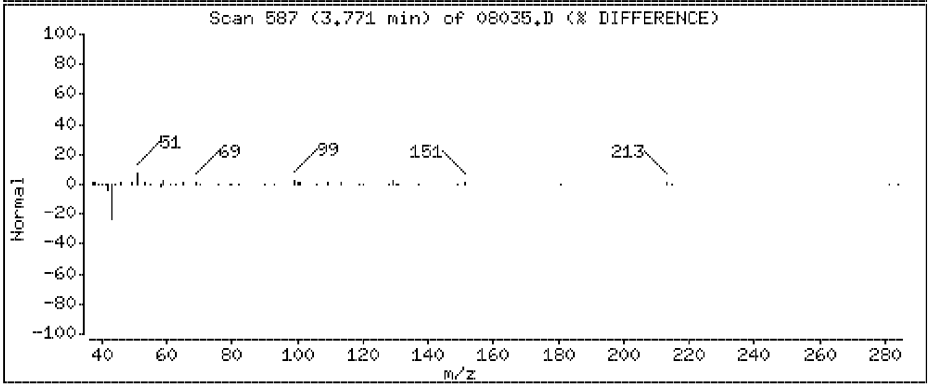












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

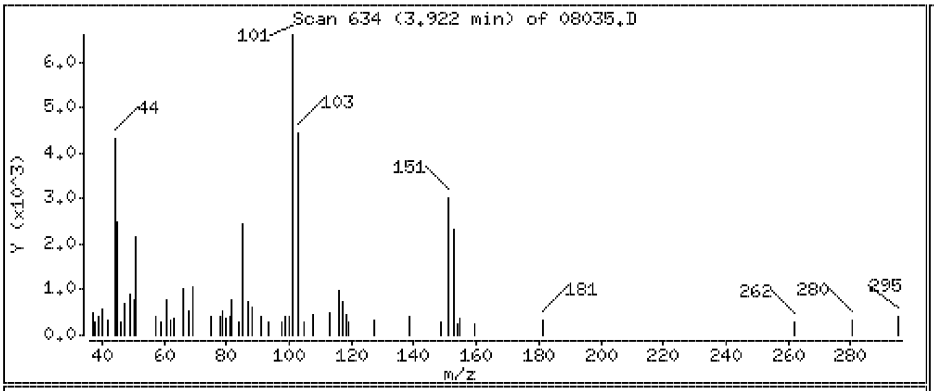
Operator: NCK

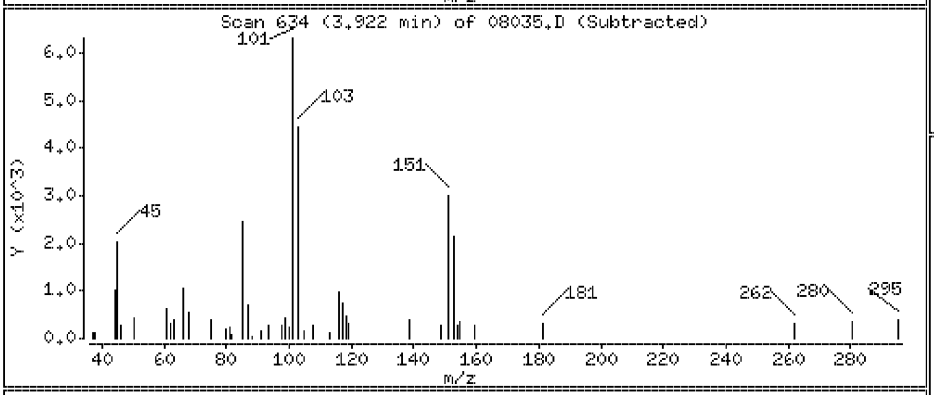
Column phase: J&W DB-5

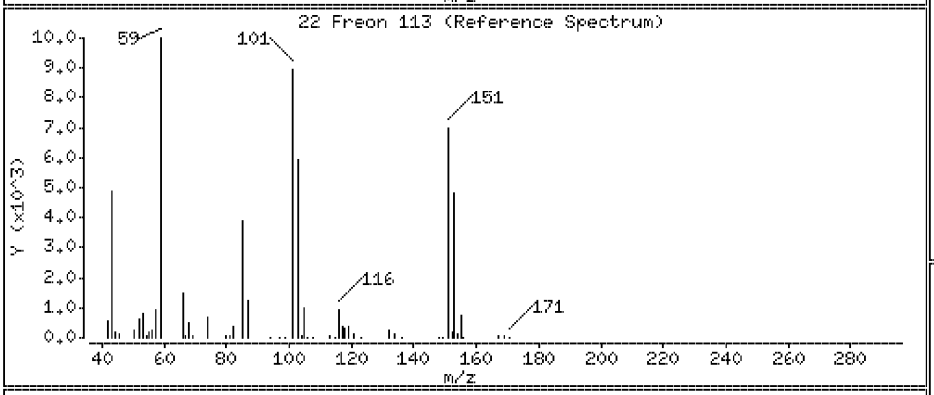
Column diameter: 0.32

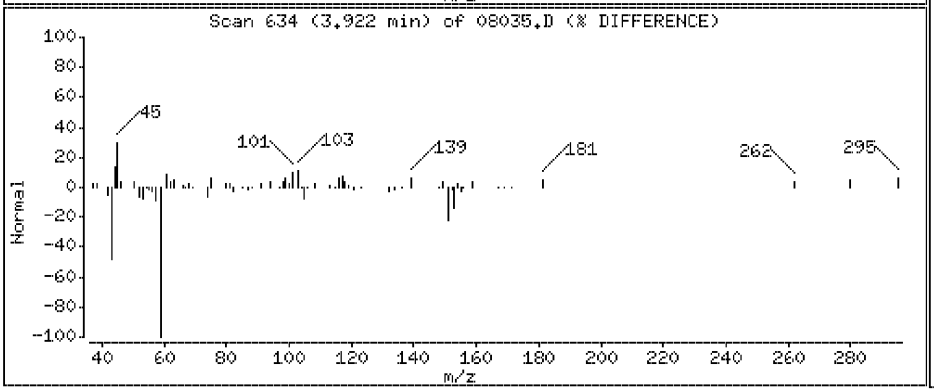
22 Freon 113

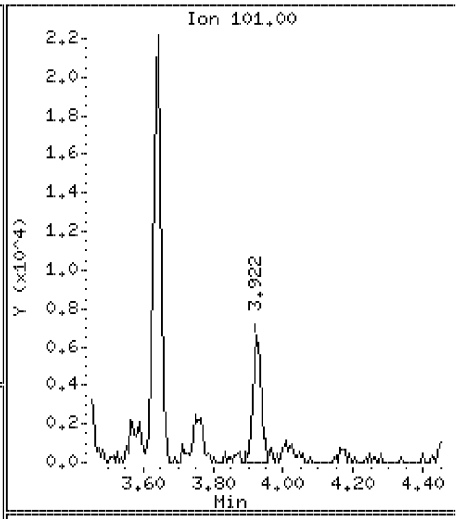
Concentration: 0.186 ppbv

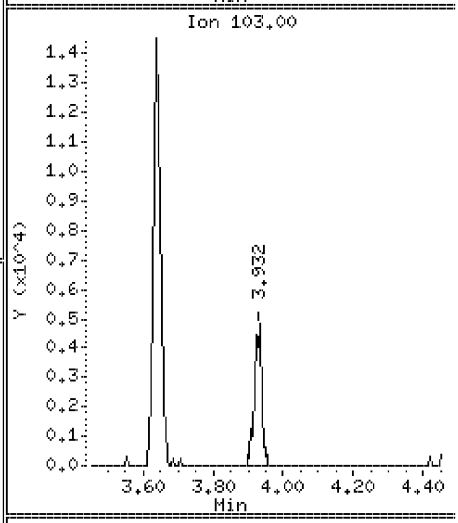


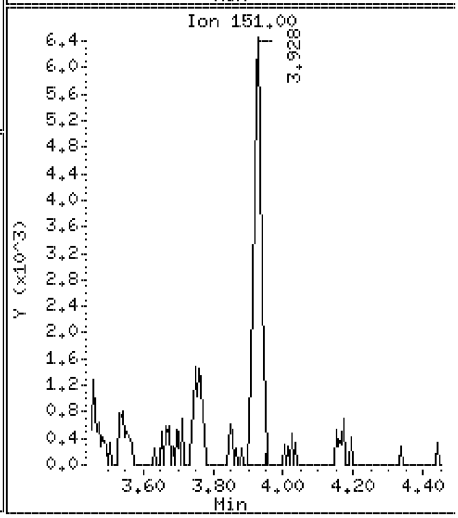












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

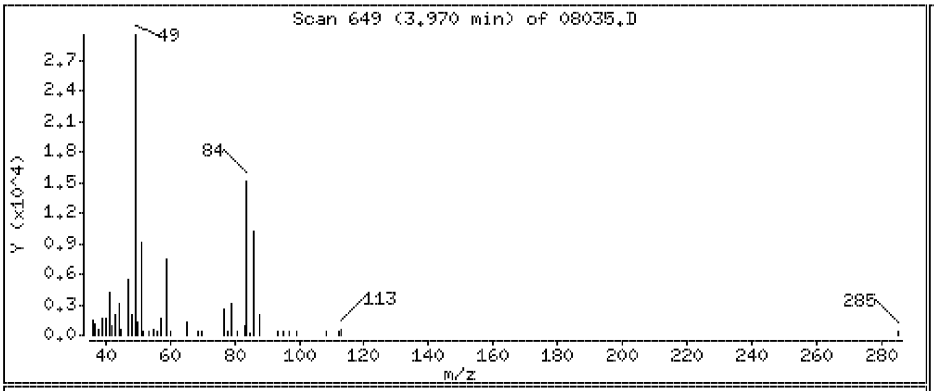
Operator: NCK

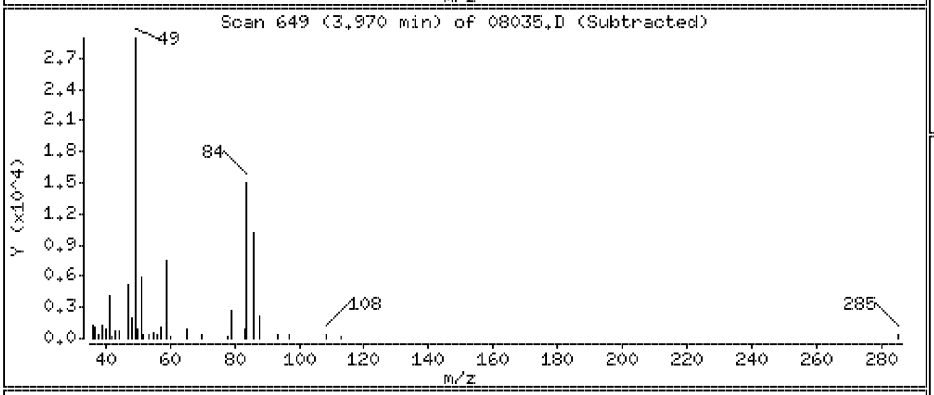
Column phase: J&W DB-5

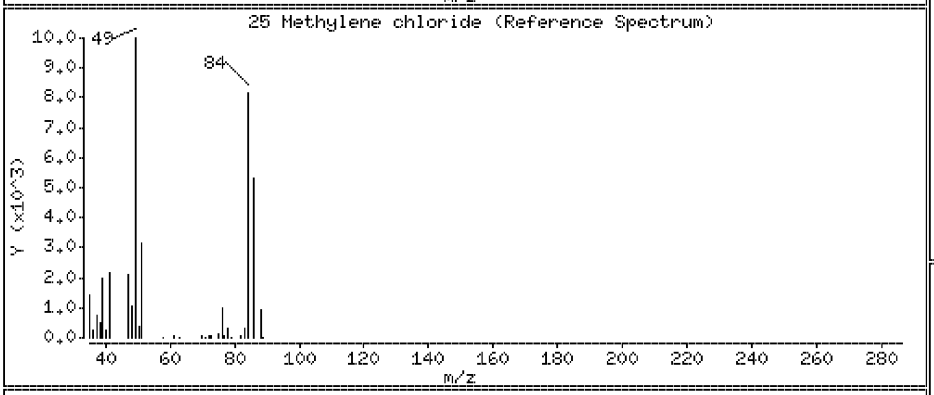
Column diameter: 0.32

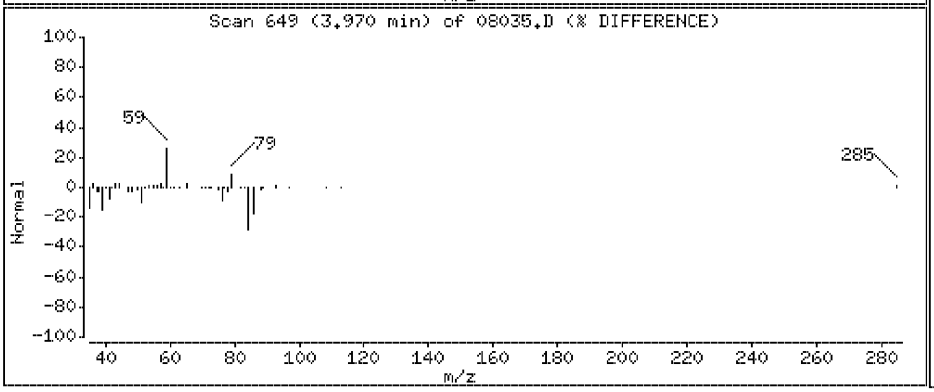
25 Methylene chloride

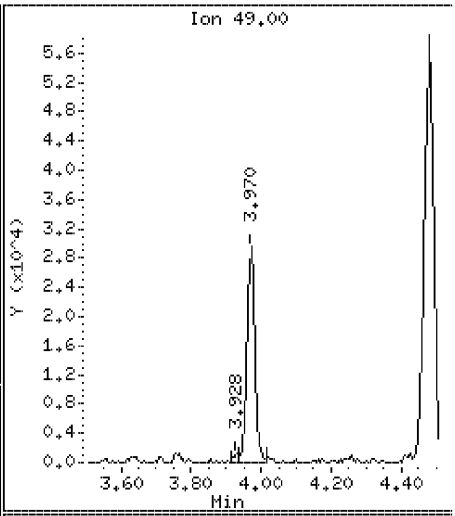
Concentration: 0.912 ppbv

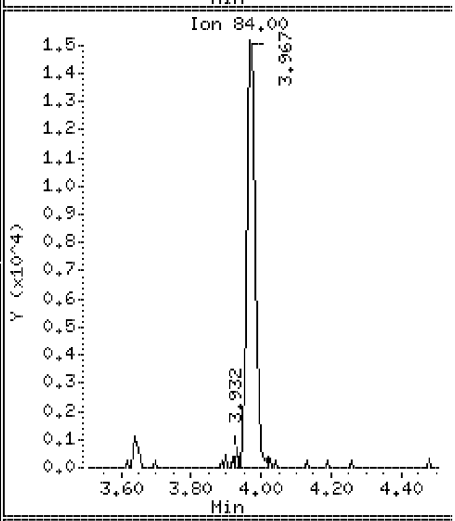


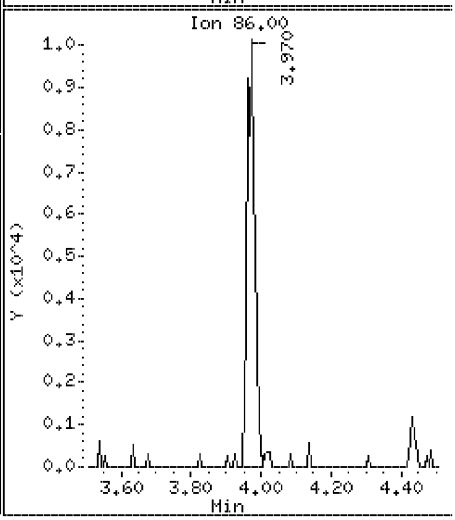












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

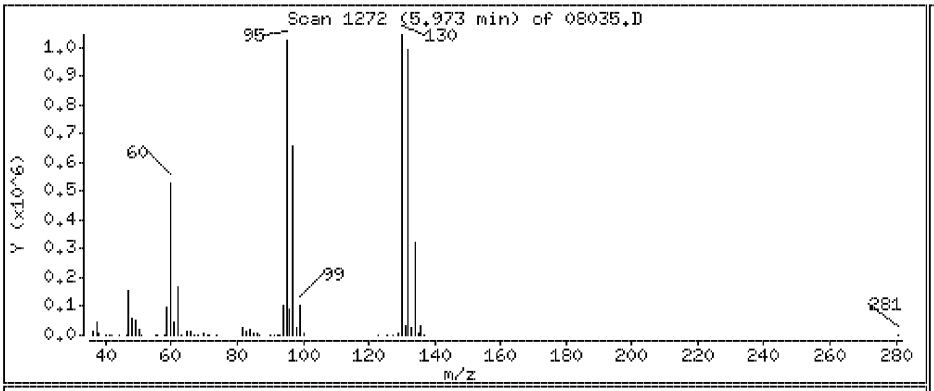
Operator: NCK

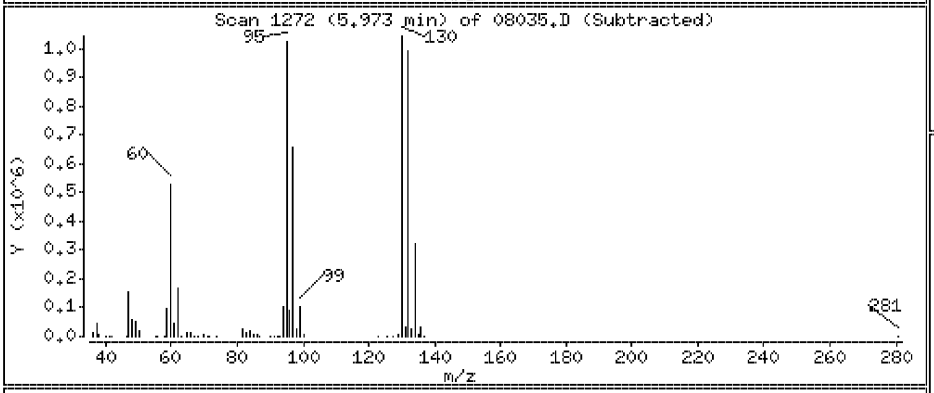
Column phase: J&W DB-5

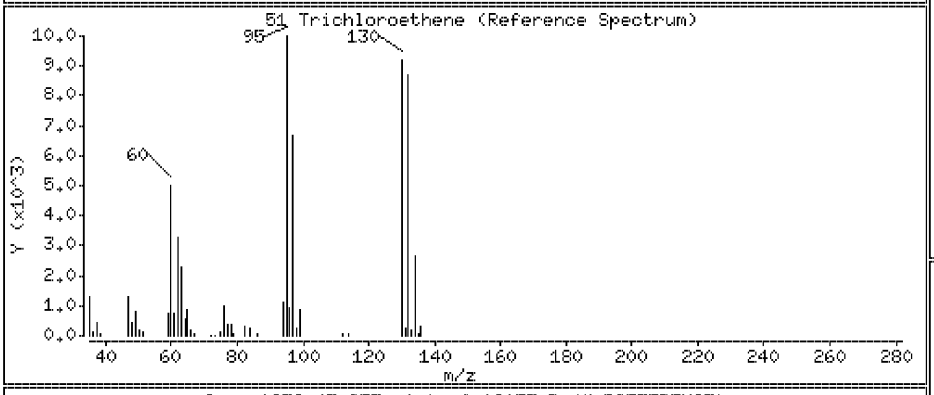
Column diameter: 0.32

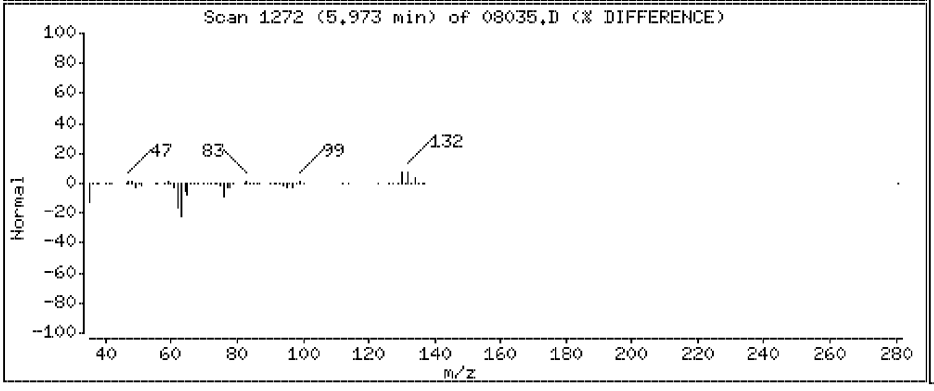
51 Trichloroethene

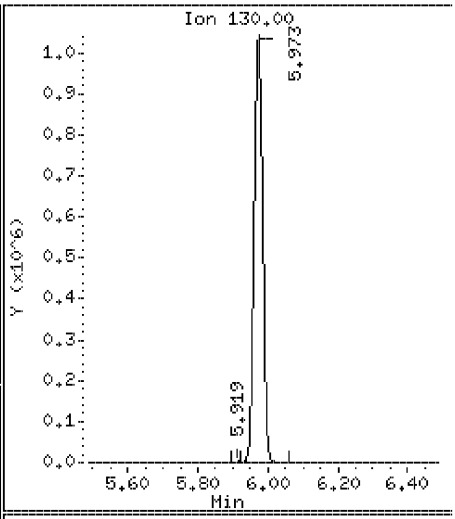
Concentration: 35.4 ppbv

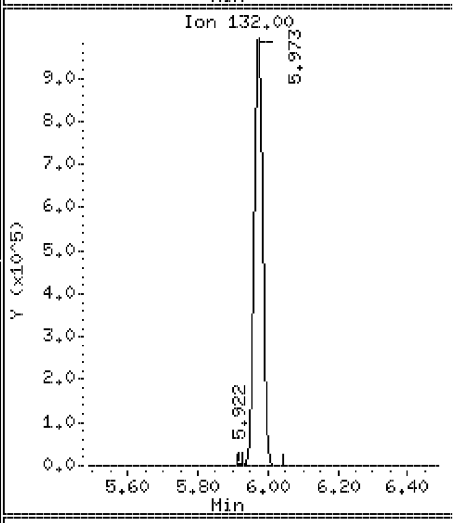


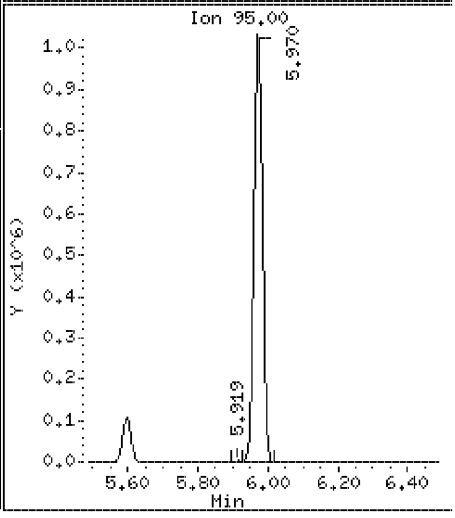












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

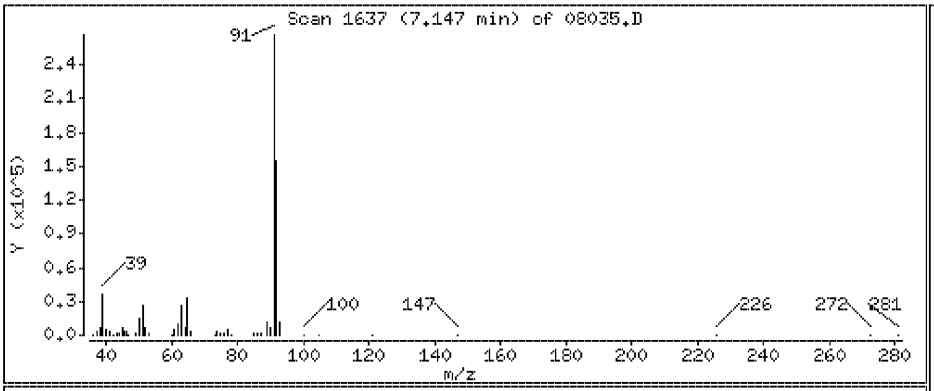
Operator: NCK

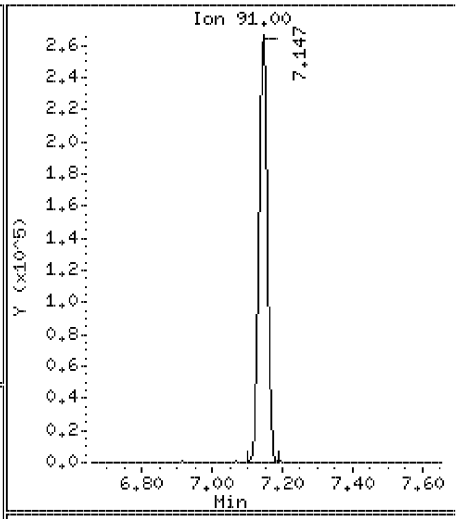
Column phase: J&W DB-5

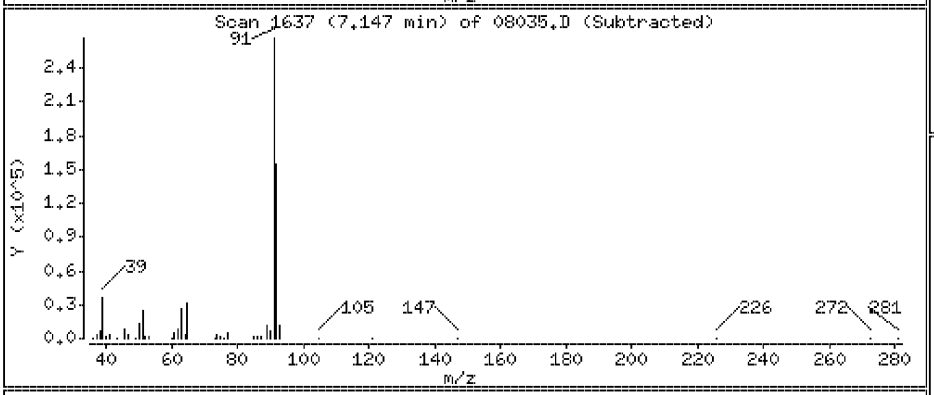
Column diameter: 0.32

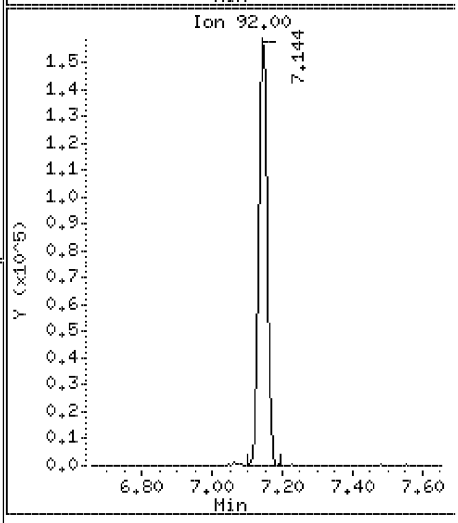
61 Toluene

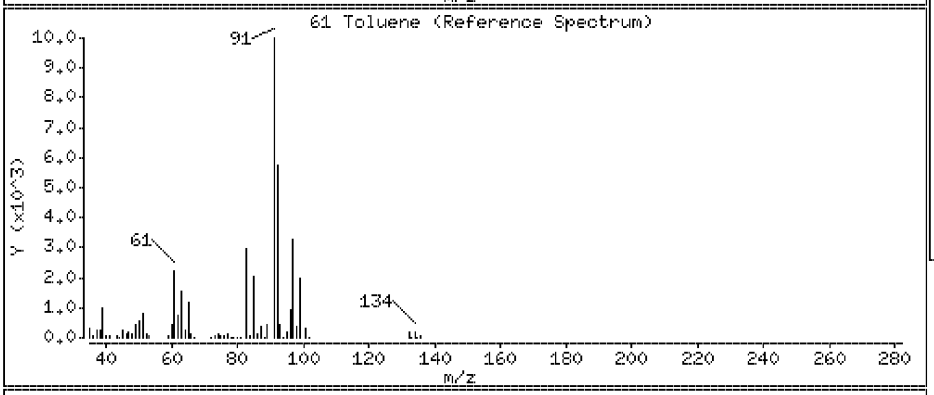
Concentration: 3.59 ppbv

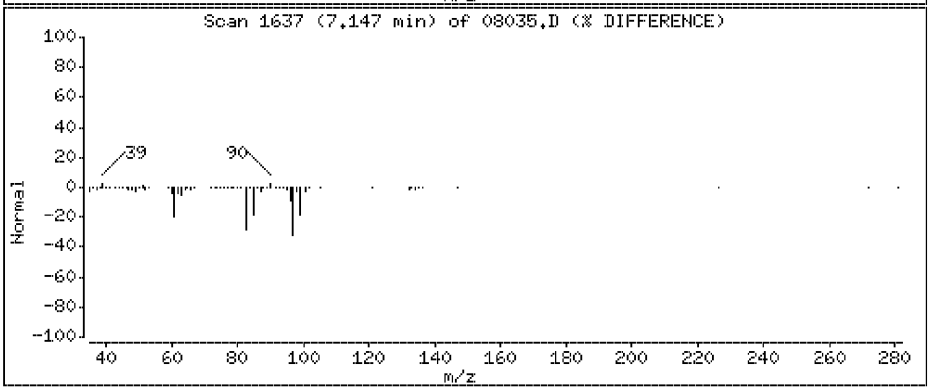












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

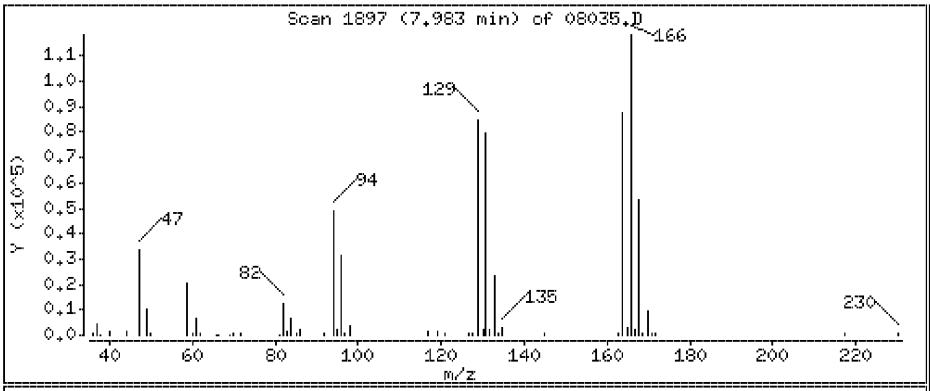
Operator: NCK

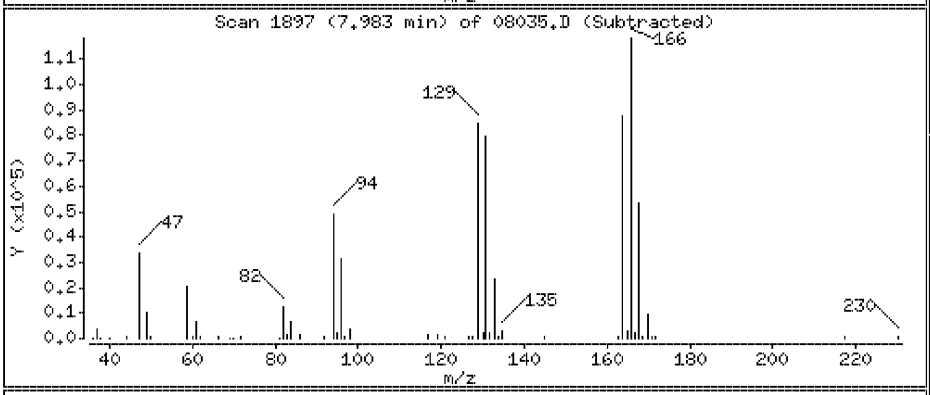
Column phase: J&W DB-5

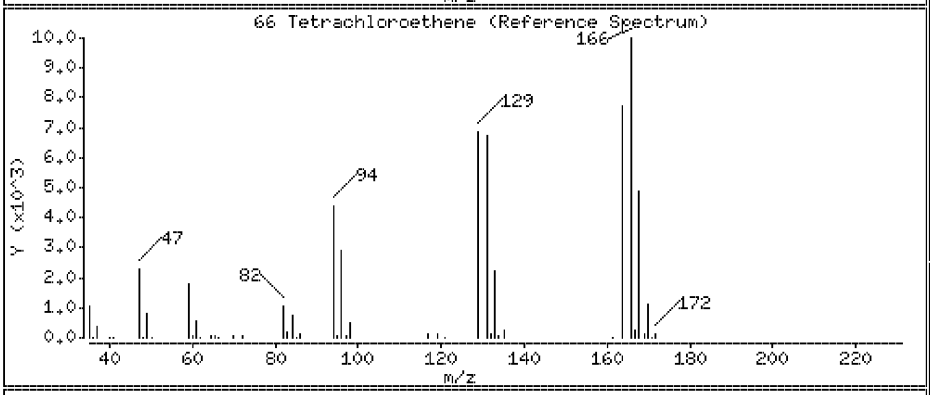
Column diameter: 0.32

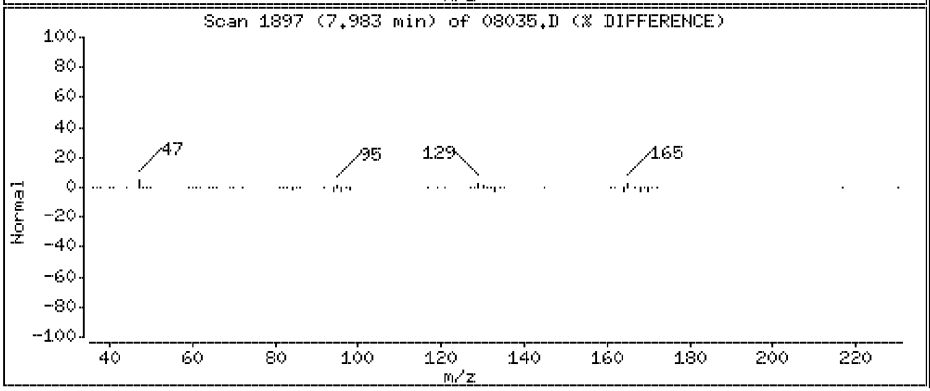
66 Tetrachloroethene

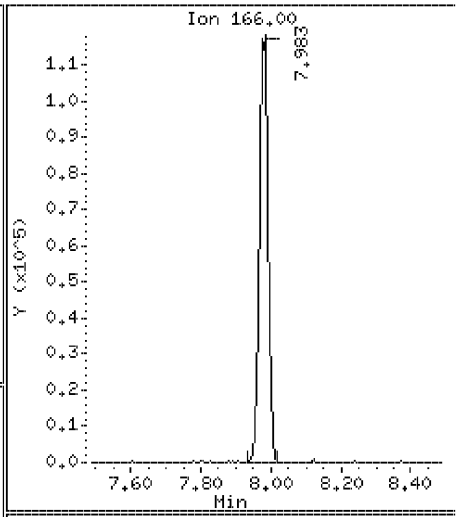
Concentration: 3.69 ppbv

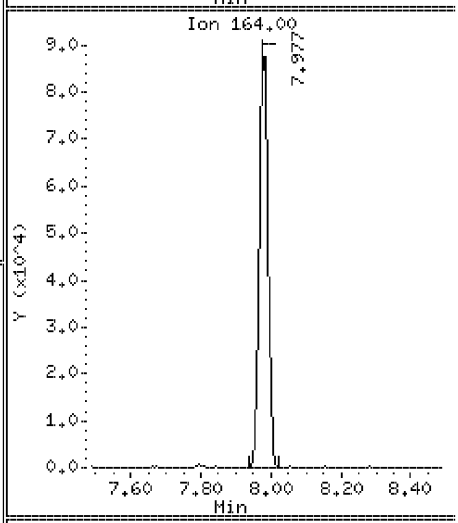


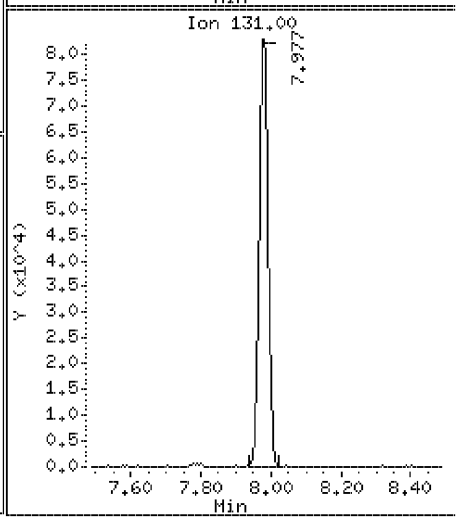












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

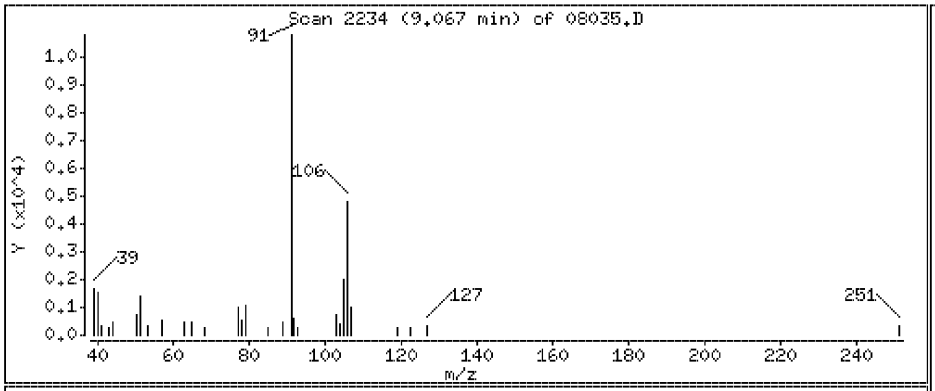
Operator: NCK

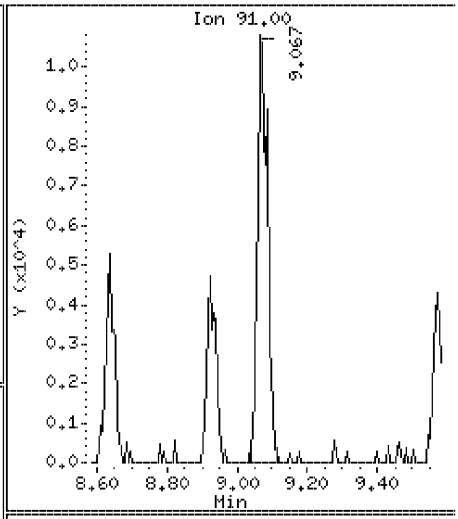
Column phase: J&W DB-5

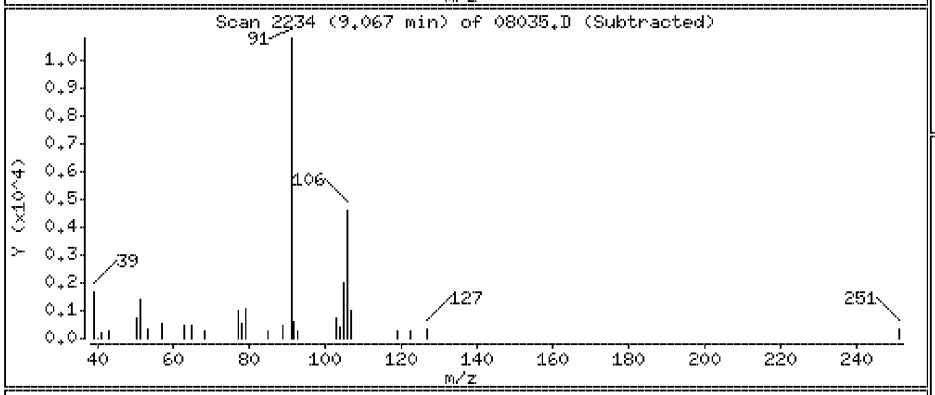
Column diameter: 0.32

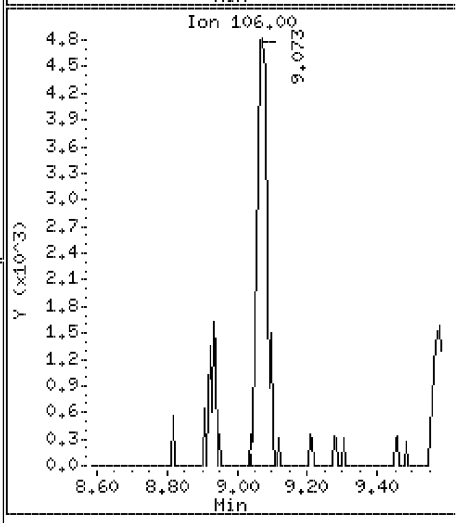
70 m&p-Xylene

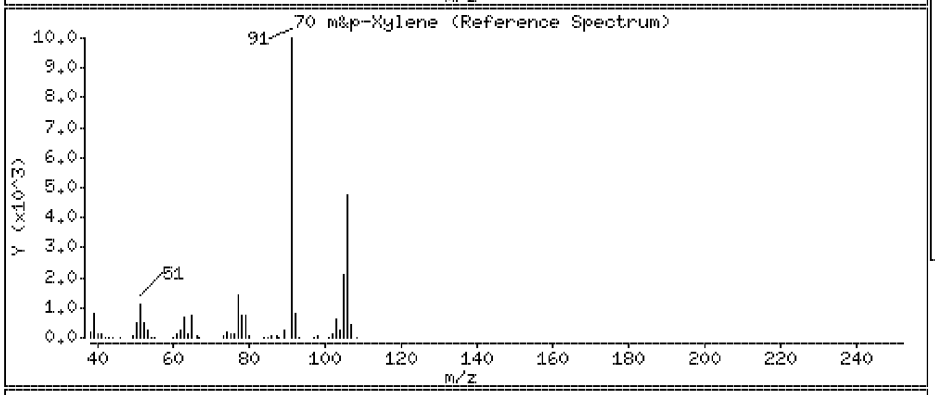
Concentration: 0.454 ppbv

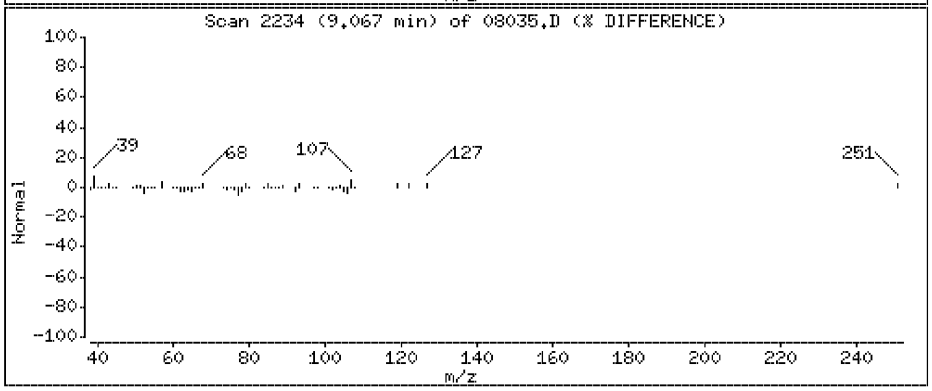












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

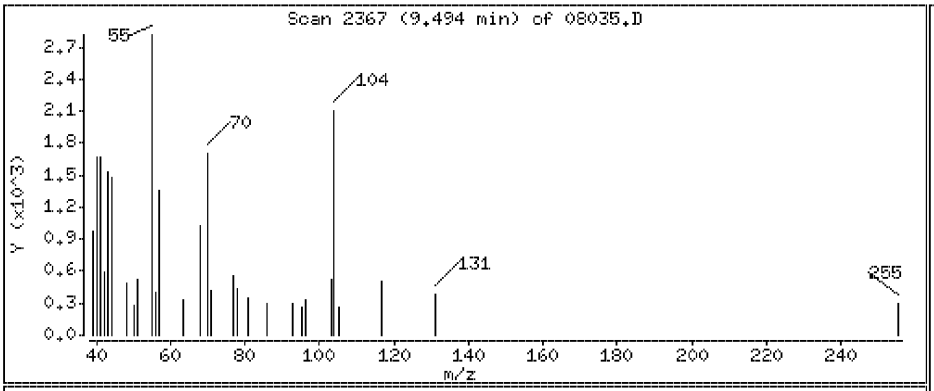
Operator: NCK

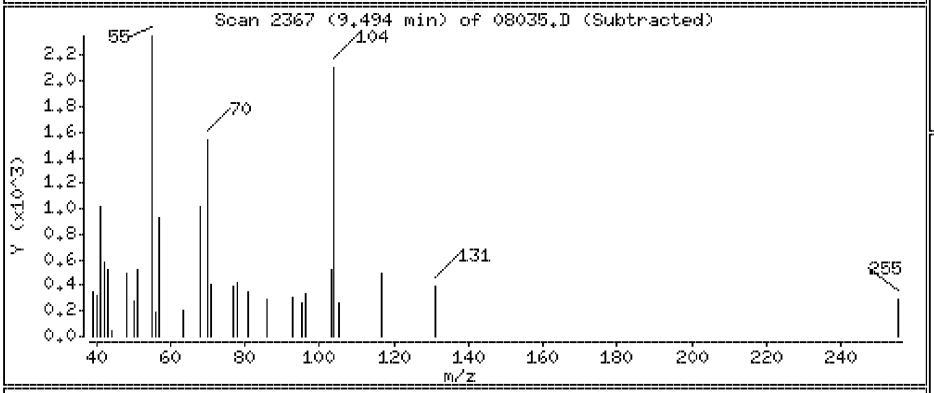
Column phase: J&W DB-5

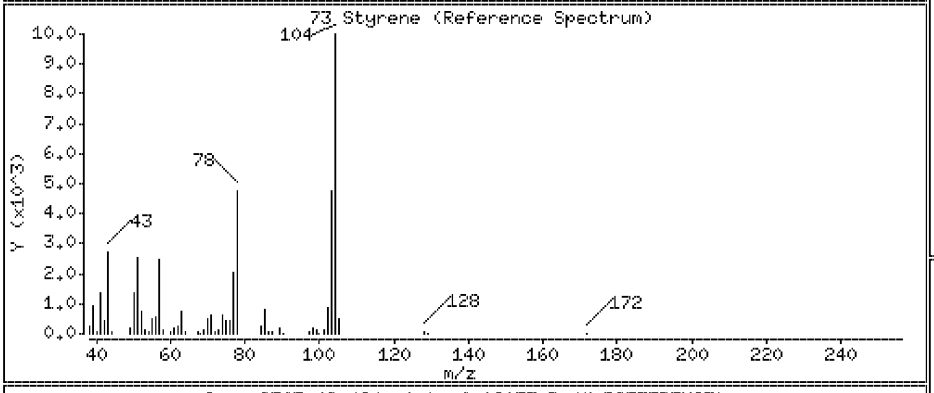
Column diameter: 0.32

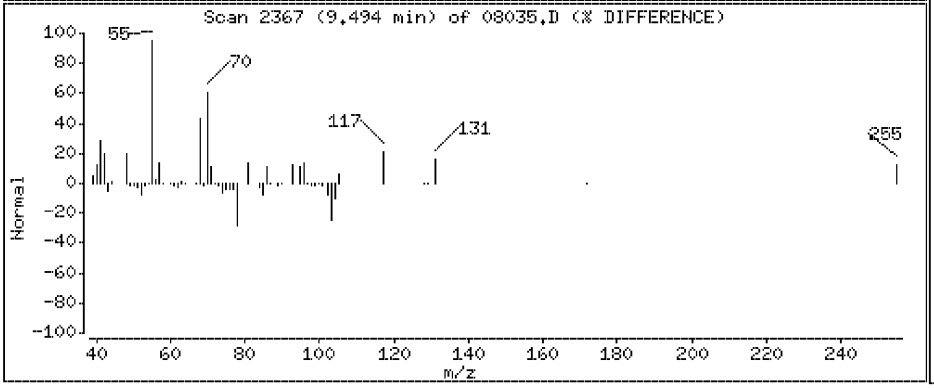
73 Styrene

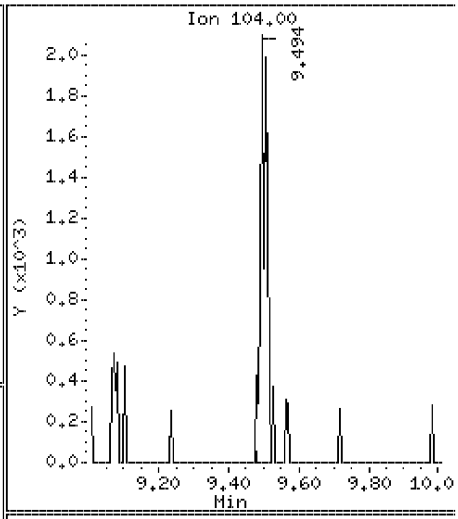
Concentration: 0.256 ppbv

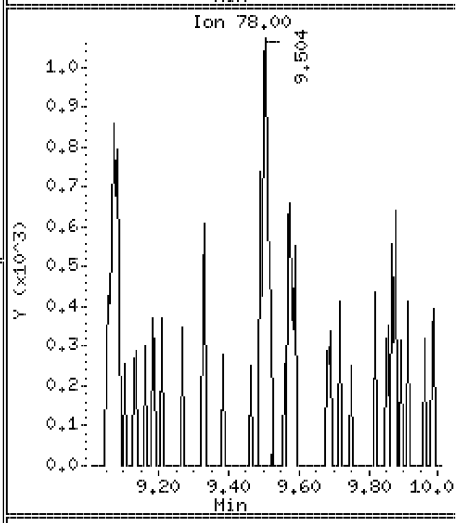


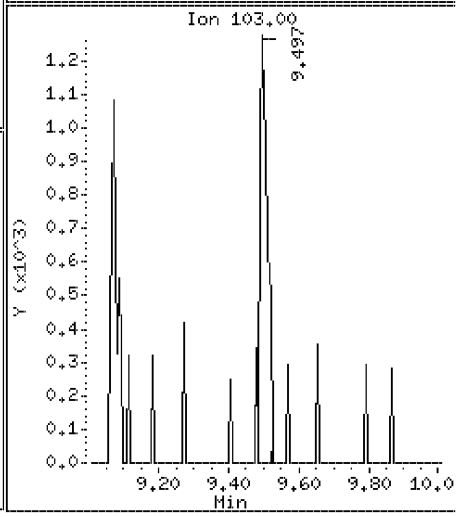












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

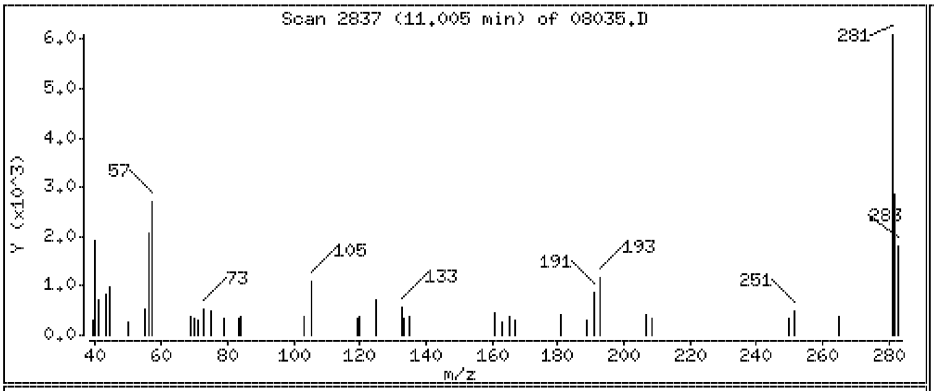
Operator: NCK

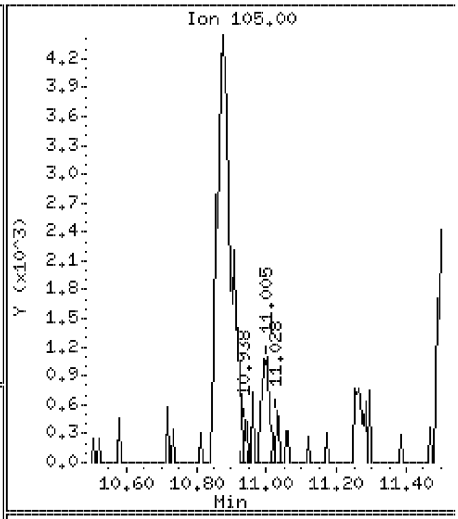
Column phase: J&W DB-5

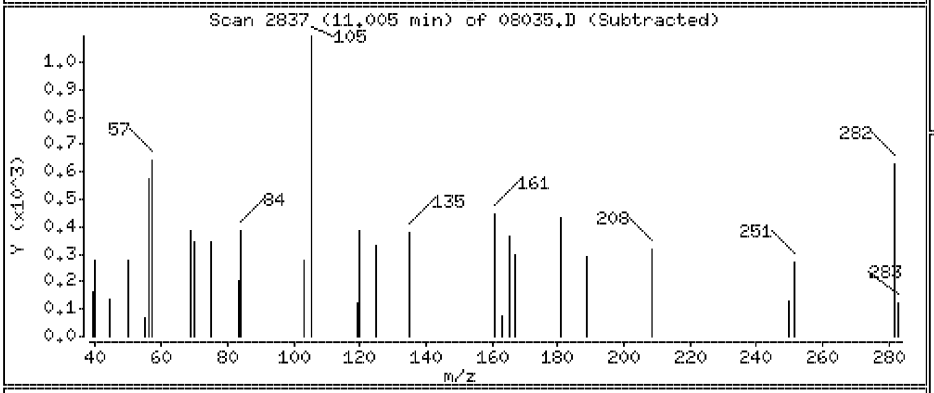
Column diameter: 0.32

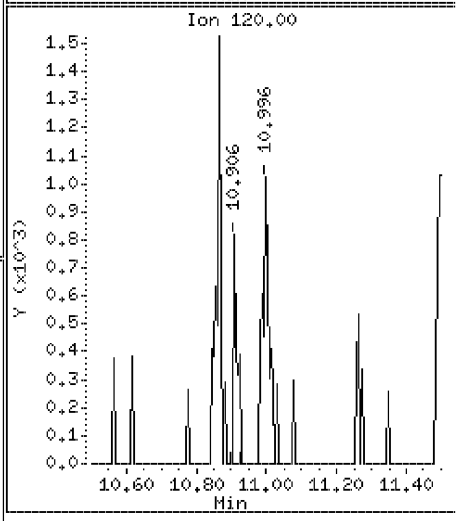
79 1,3,5-Trimethylbenzene

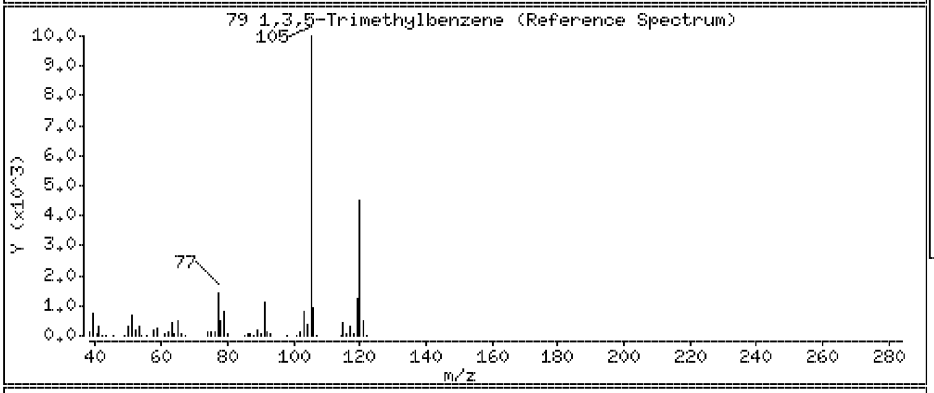
Concentration: 0.257 ppbv

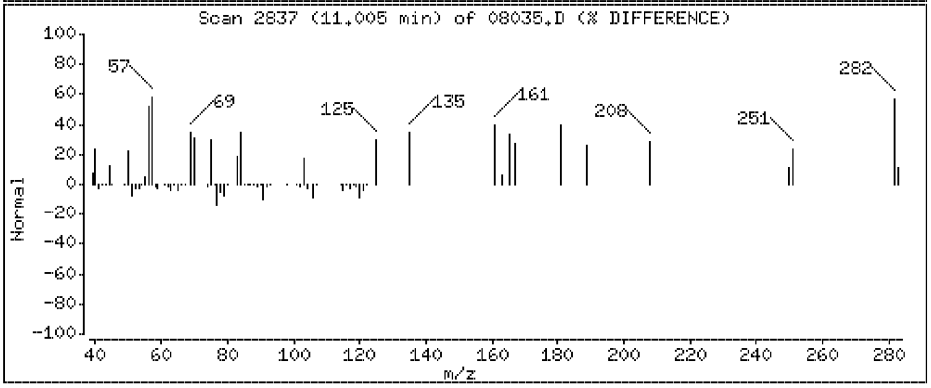












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

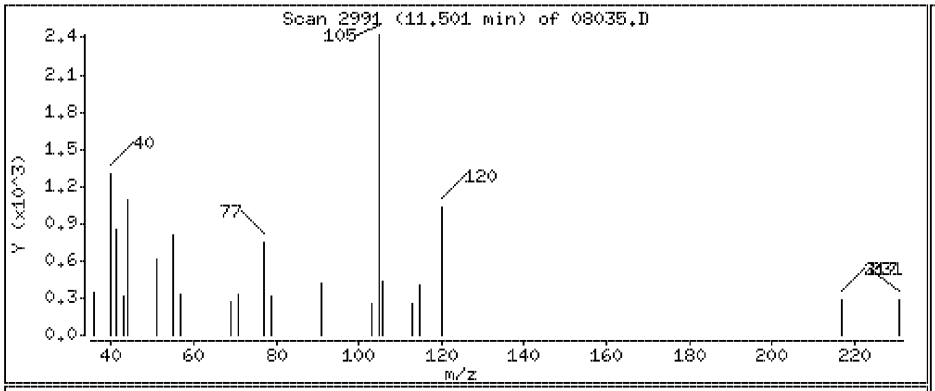
Operator: NCK

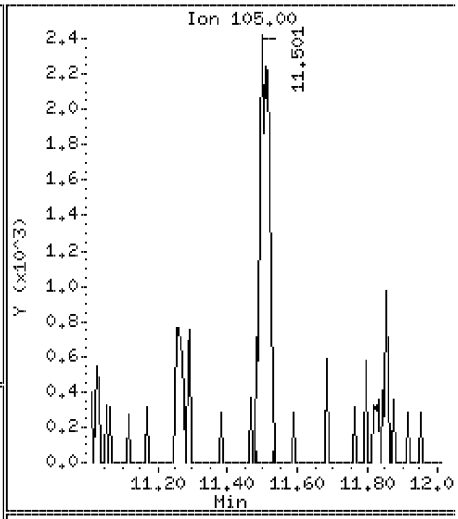
Column phase: J&W DB-5

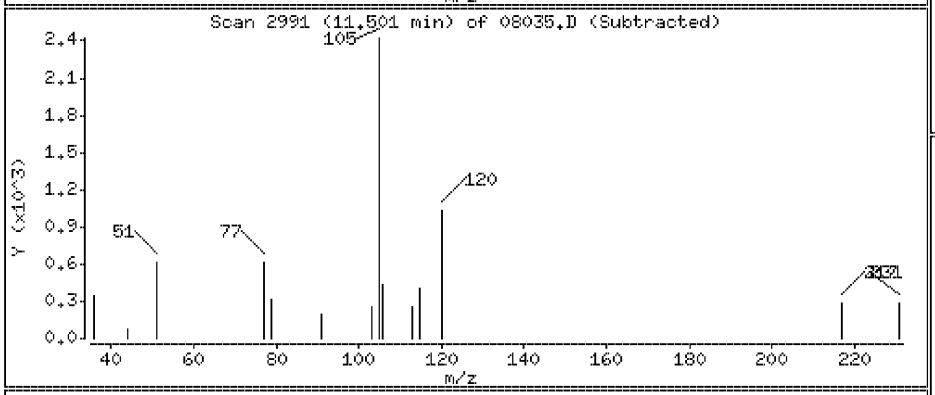
Column diameter: 0.32

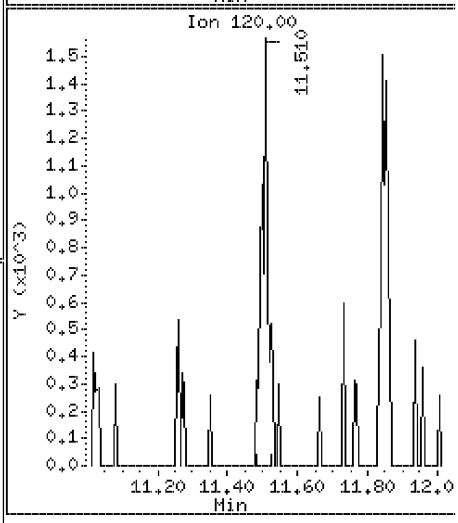
82 1,2,4-Trimethylbenzene

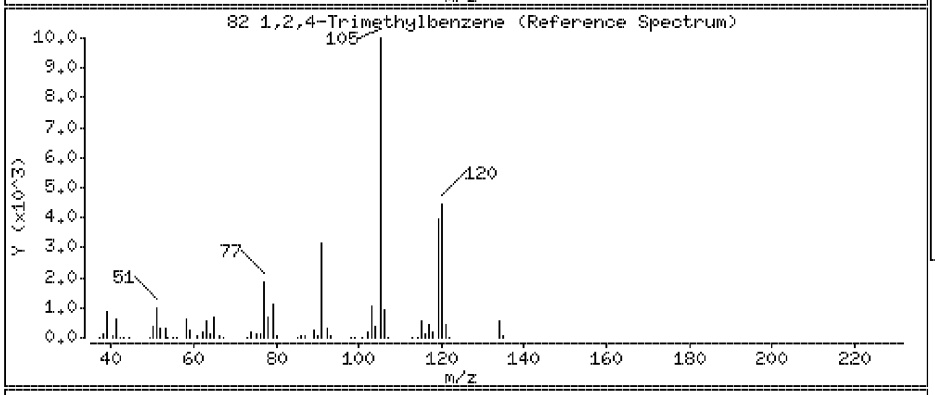
Concentration: 0.264 ppbv

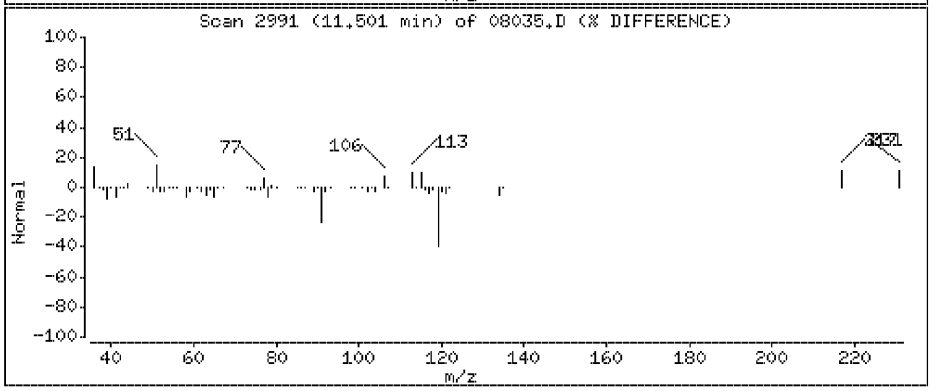












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

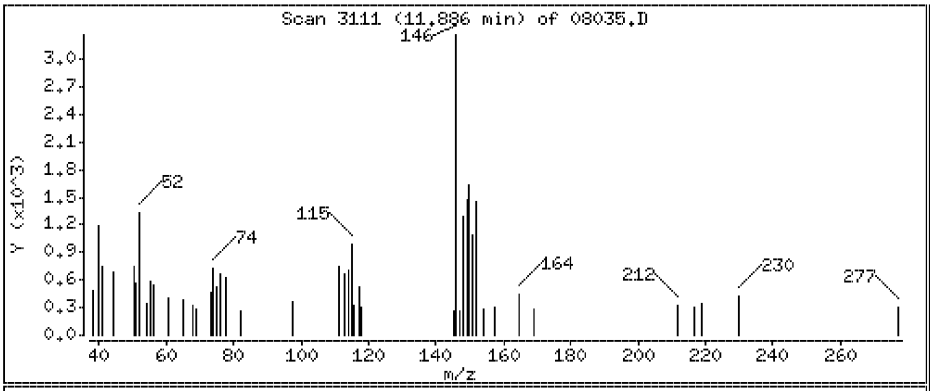
Operator: NCK

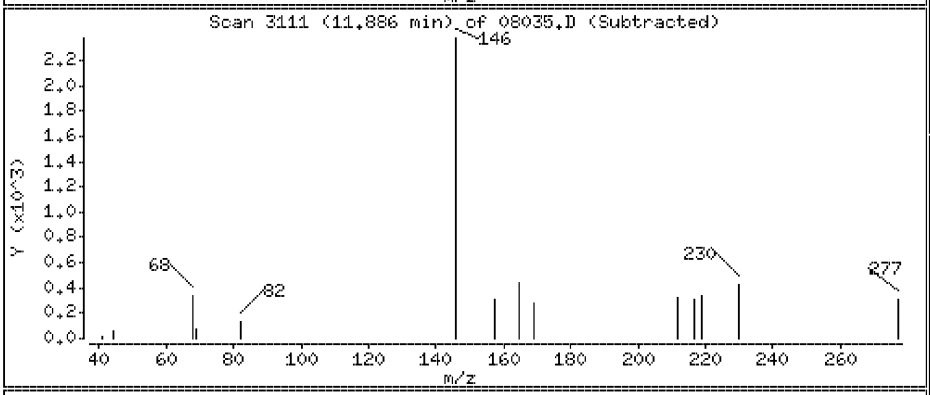
Column phase: J&W DB-5

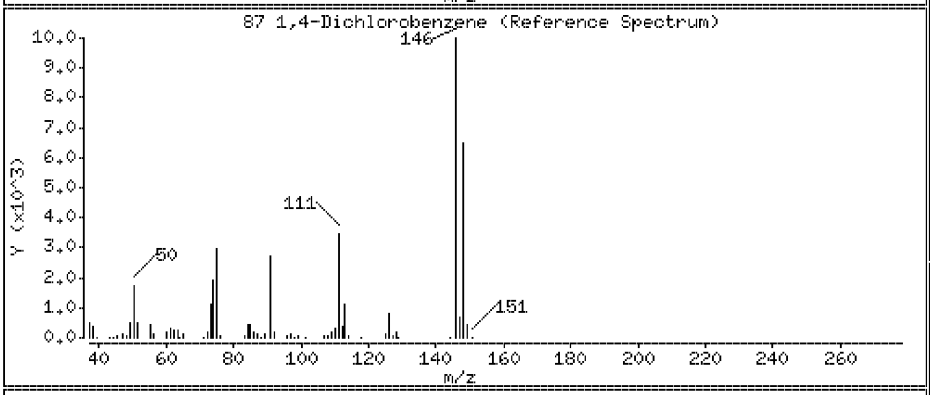
Column diameter: 0.32

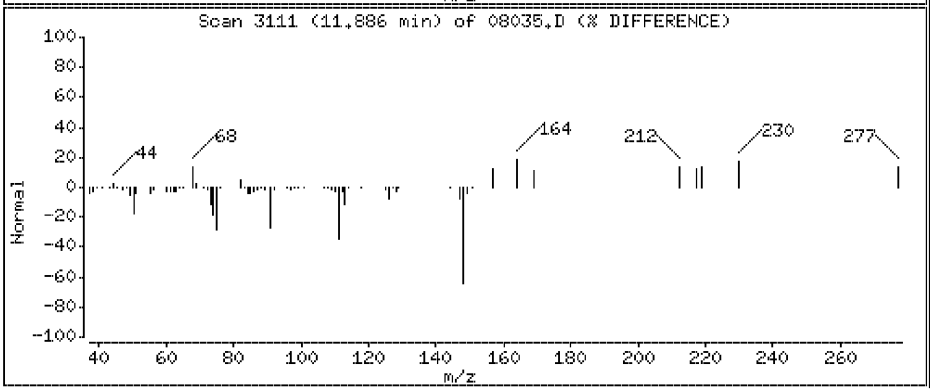
87 1,4-Dichlorobenzene

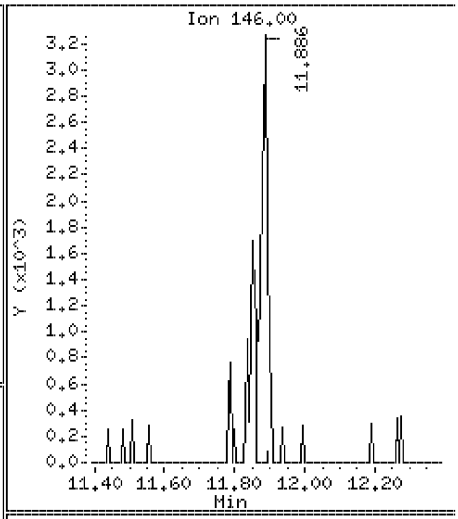
Concentration: 0.297 ppbv

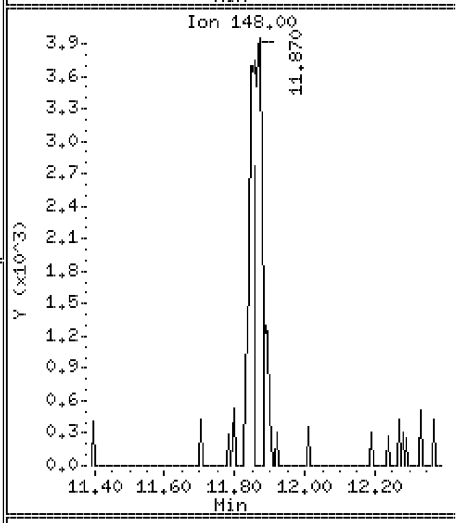


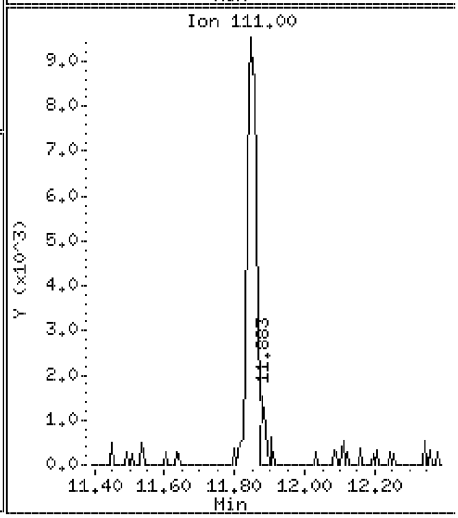












Data File: \\192.168.10.12\chem\10airB.i\032117.b\08035.D

Date : 22-MAR-2017 02:14

Client ID:

Instrument: 10airB.i

Sample Info:

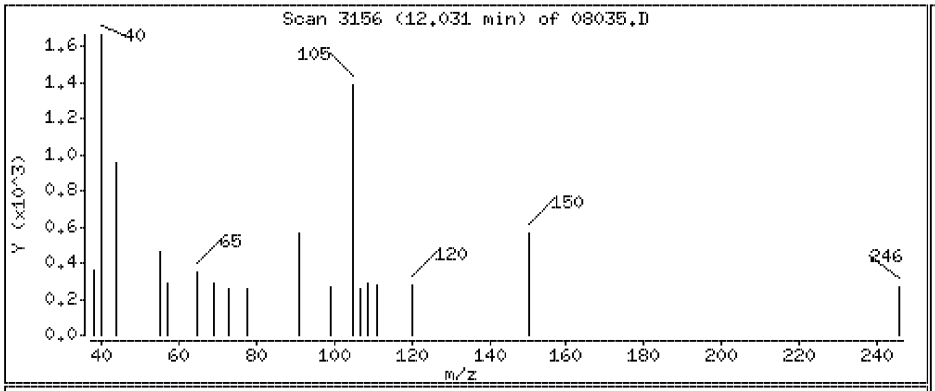
Operator: NCK

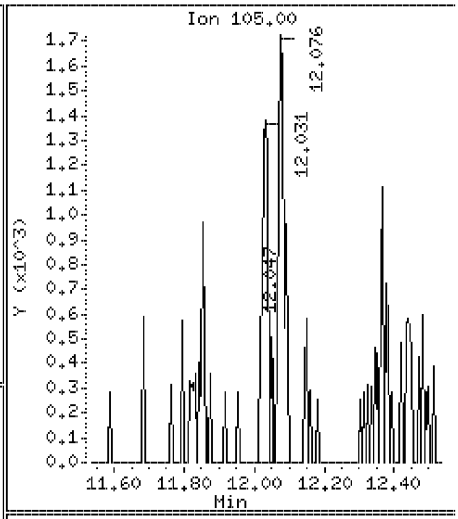
Column phase: J&W DB-5

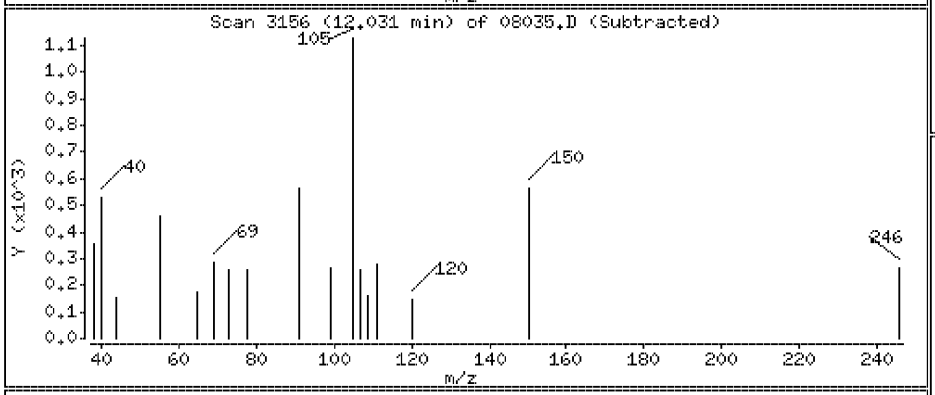
Column diameter: 0.32

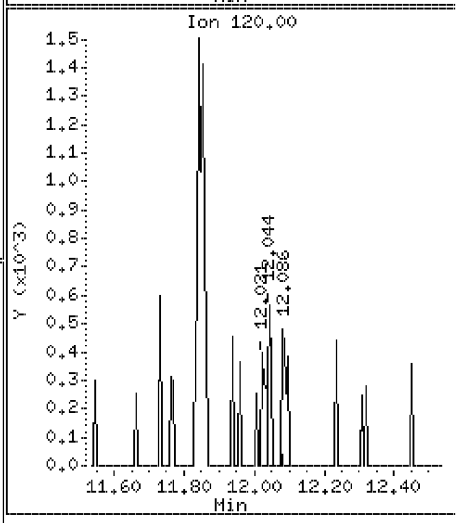
89 1,2,3-Trimethylbenzene

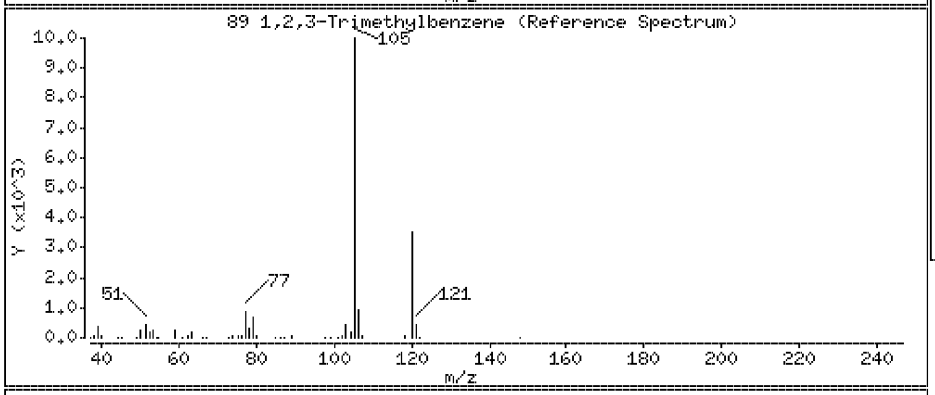
Concentration: 0.270 ppbv

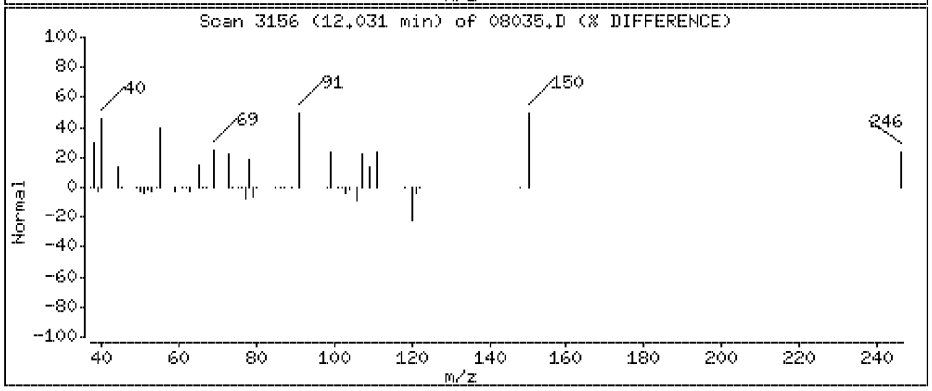






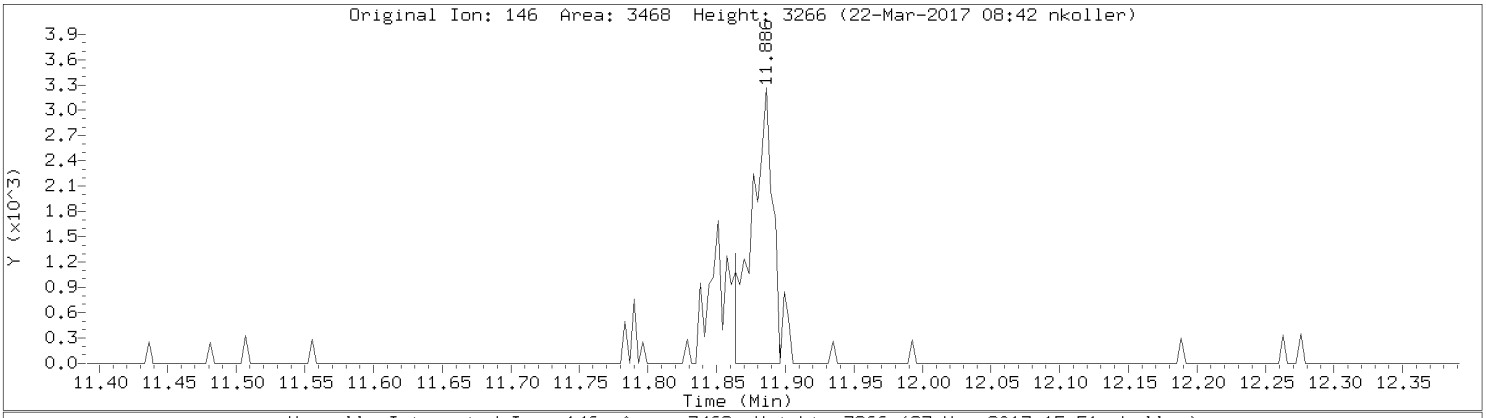


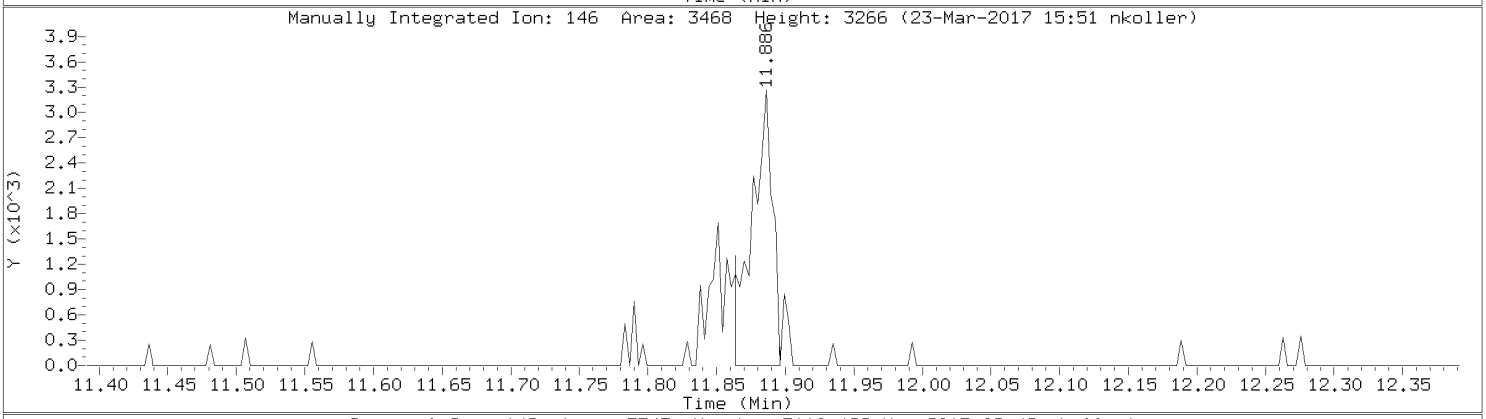


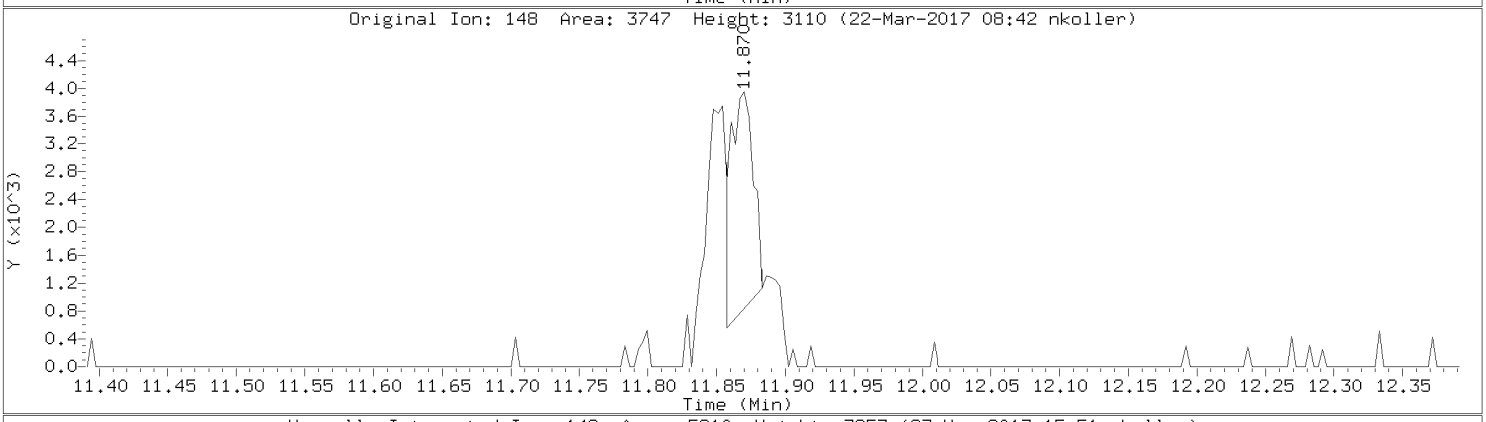


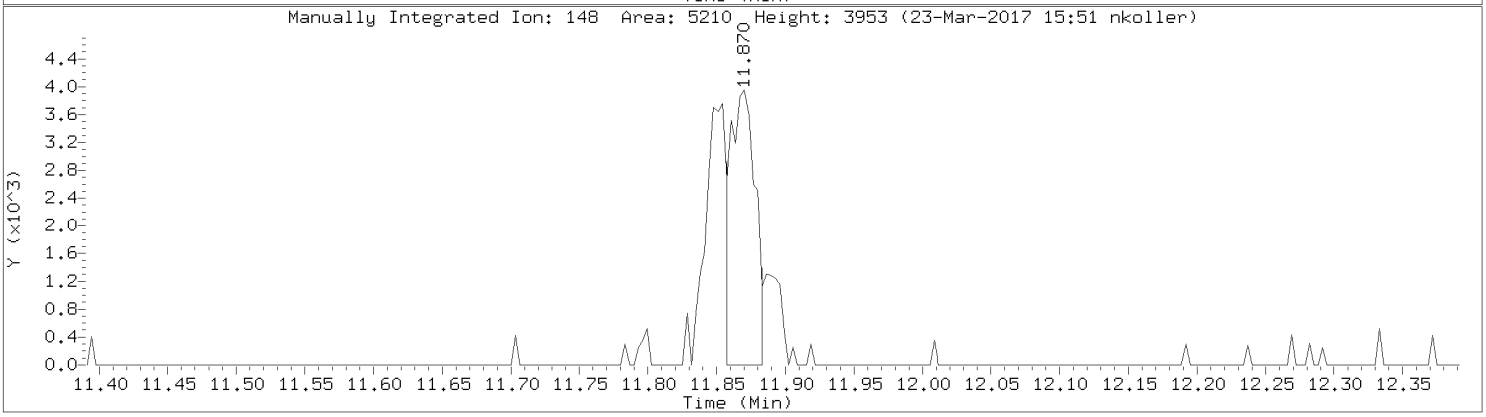
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08035.D
Injection Date: 22-MAR-2017 02:14
Instrument: 10airB.i
Lab Sample ID: 10381035022

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

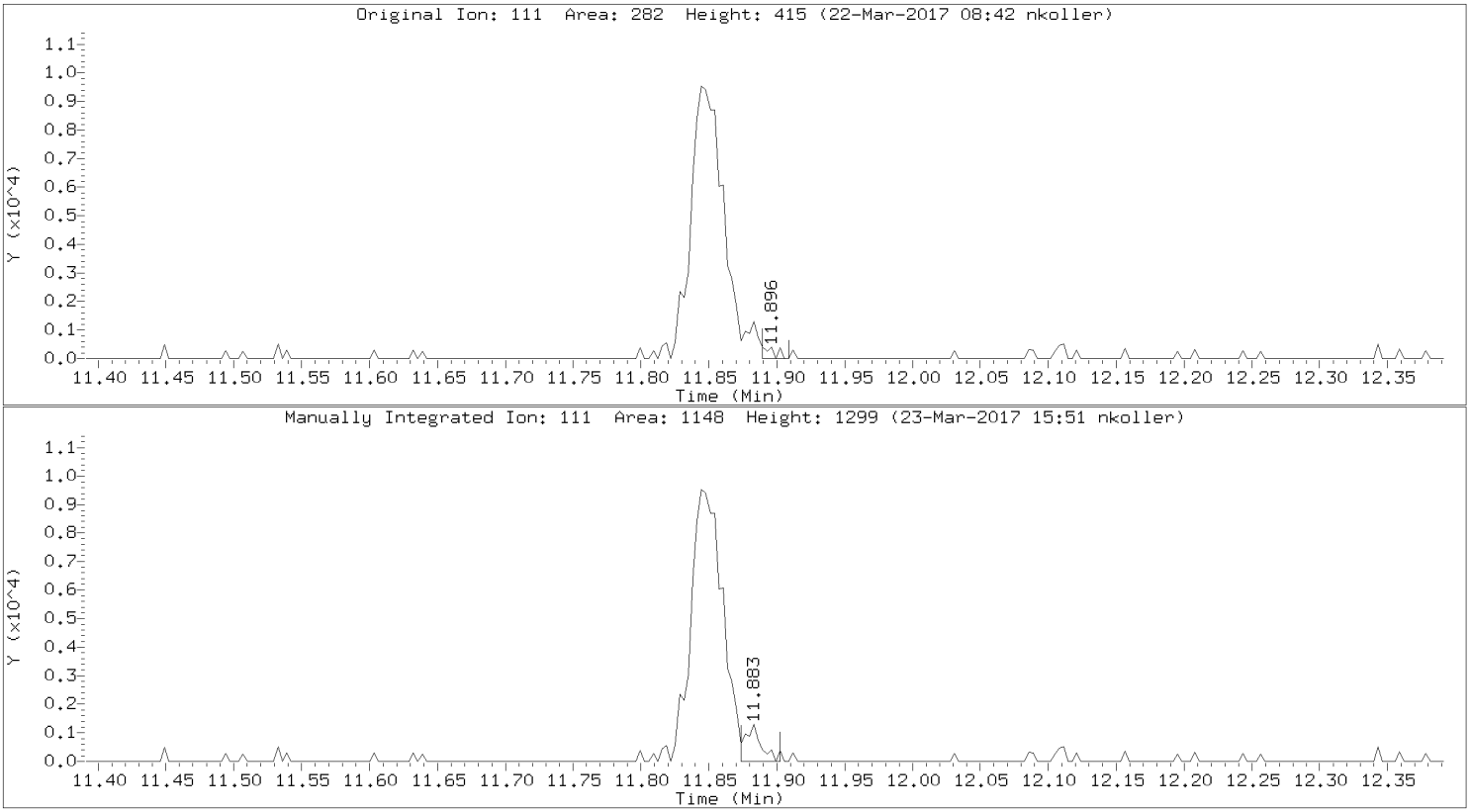






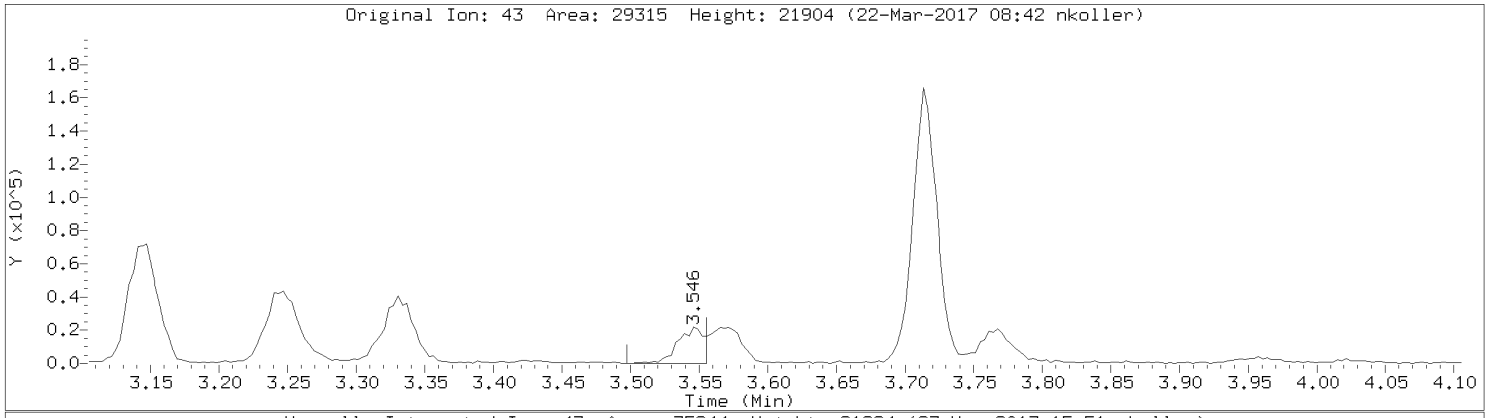


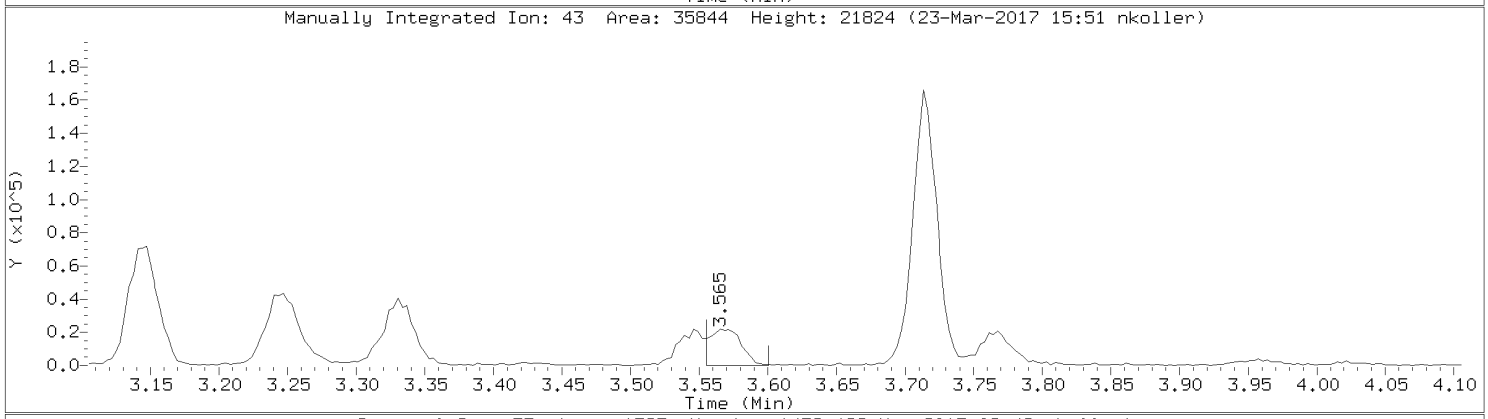
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08035.D
Injection Date: 22-MAR-2017 02:14
Instrument: 10airB.i
Lab Sample ID: 10381035022

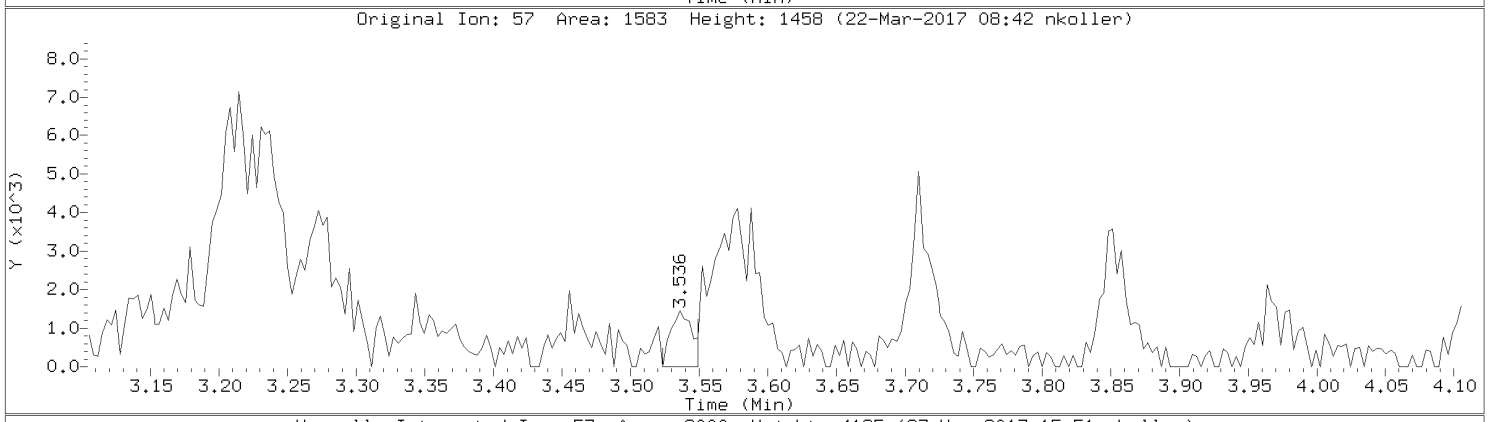


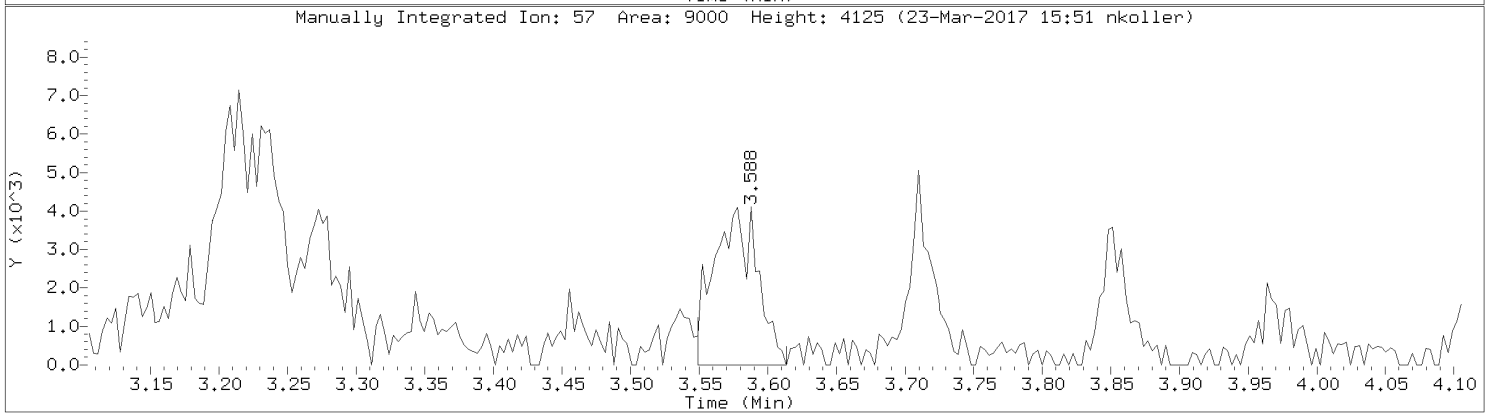
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08035.D
Injection Date: 22-MAR-2017 02:14
Instrument: 10airB.i
Lab Sample ID: 10381035022

Compound: Isopentane
CAS Number: 78-78-4

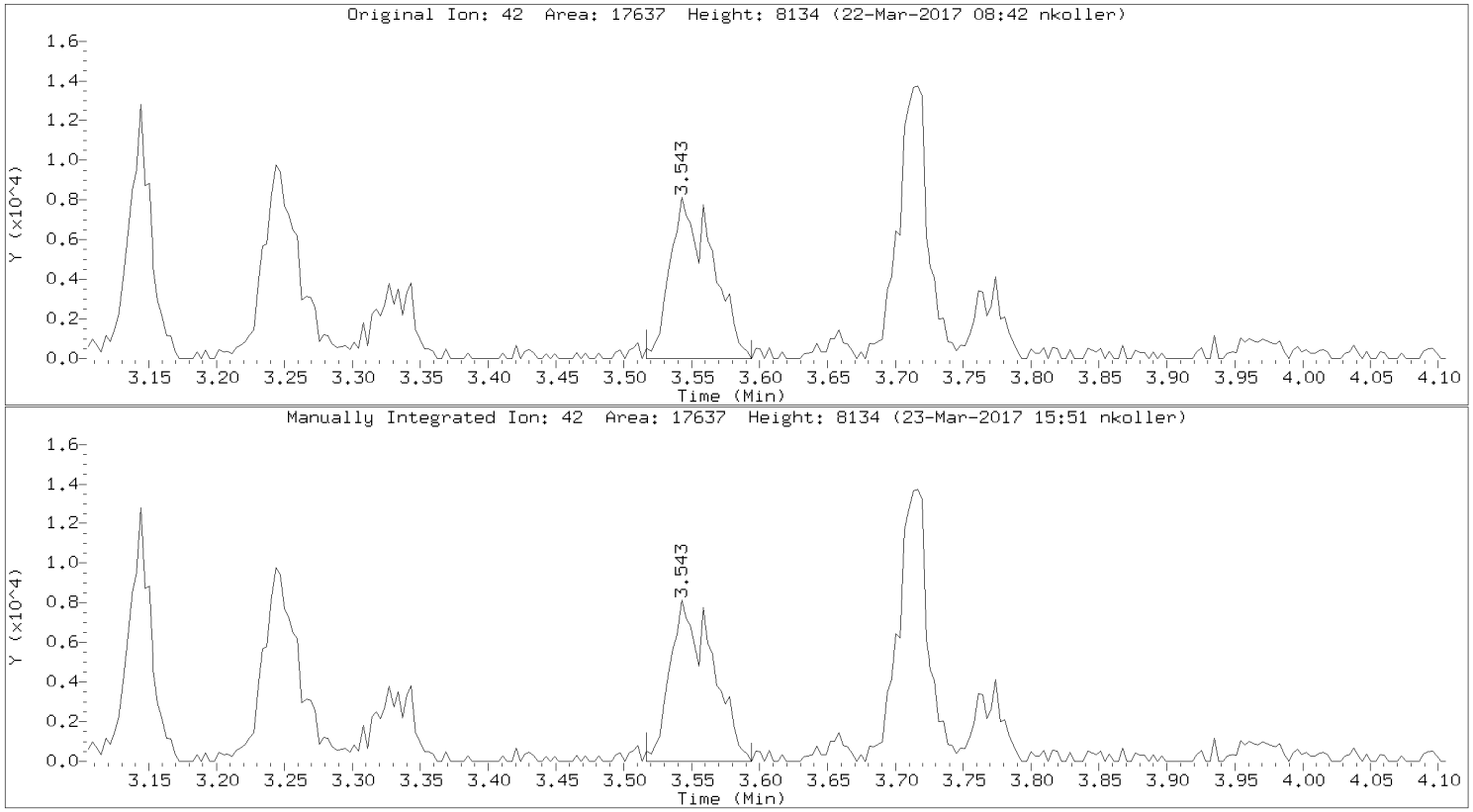








Data File: \\192.168.10.12\chem\10airB.i\032117.b/08035.D
Injection Date: 22-MAR-2017 02:14
Instrument: 10airB.i
Lab Sample ID: 10381035022



Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\192.168.10.12\chem\10airB.i\031617thc.b\THC_075-17.m
Last Edit : 16-Mar-2017 15:20 10airB.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\031617thc.b\07502.D
Level 02: all \\192.168.10.12\chem\10airB.i\031617thc.b\07503.D
Level 03: all \\192.168.10.12\chem\10airB.i\031617thc.b\07504.D
Level 04: all \\192.168.10.12\chem\10airB.i\031617thc.b\07505.D
Level 05: all \\192.168.10.12\chem\10airB.i\031617thc.b\07506.D
Level 06: all \\192.168.10.12\chem\10airB.i\031617thc.b\07507.D
Level 07: all \\192.168.10.12\chem\10airB.i\031617thc.b\07508.D

Compound (all.sb)	11.9500 Level 1	23.9000 Level 2	59.7500 Level 3	119.5000 Level 4	1195.0000 Level 5	2390.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	3585.0000 Level 7										
S 5 THC as Gas	92331459	93125702	105880564	126841602	594802057	1.006e+009					
	1.373e+009						LINR	97480612	366881		0.99593

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ESTD
Target Version : 4.14
Integrator : HP Genie
Method file : \\192.168.10.12\chem\10airB.i\031617thc.b\THC_075-17.m
Last Edit : 16-Mar-2017 15:20 10airB.i

Curve	Formula	Units
Linear	Amt = b + m1*Rsp	Amount

Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\031617thc.b\07502.D
Lab Smp Id: cal1
Inj Date : 16-MAR-2017 09:16
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\031617thc.b\THC_075-17.m
Meth Date : 16-Mar-2017 15:20 10airB.i Quant Type: ESTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

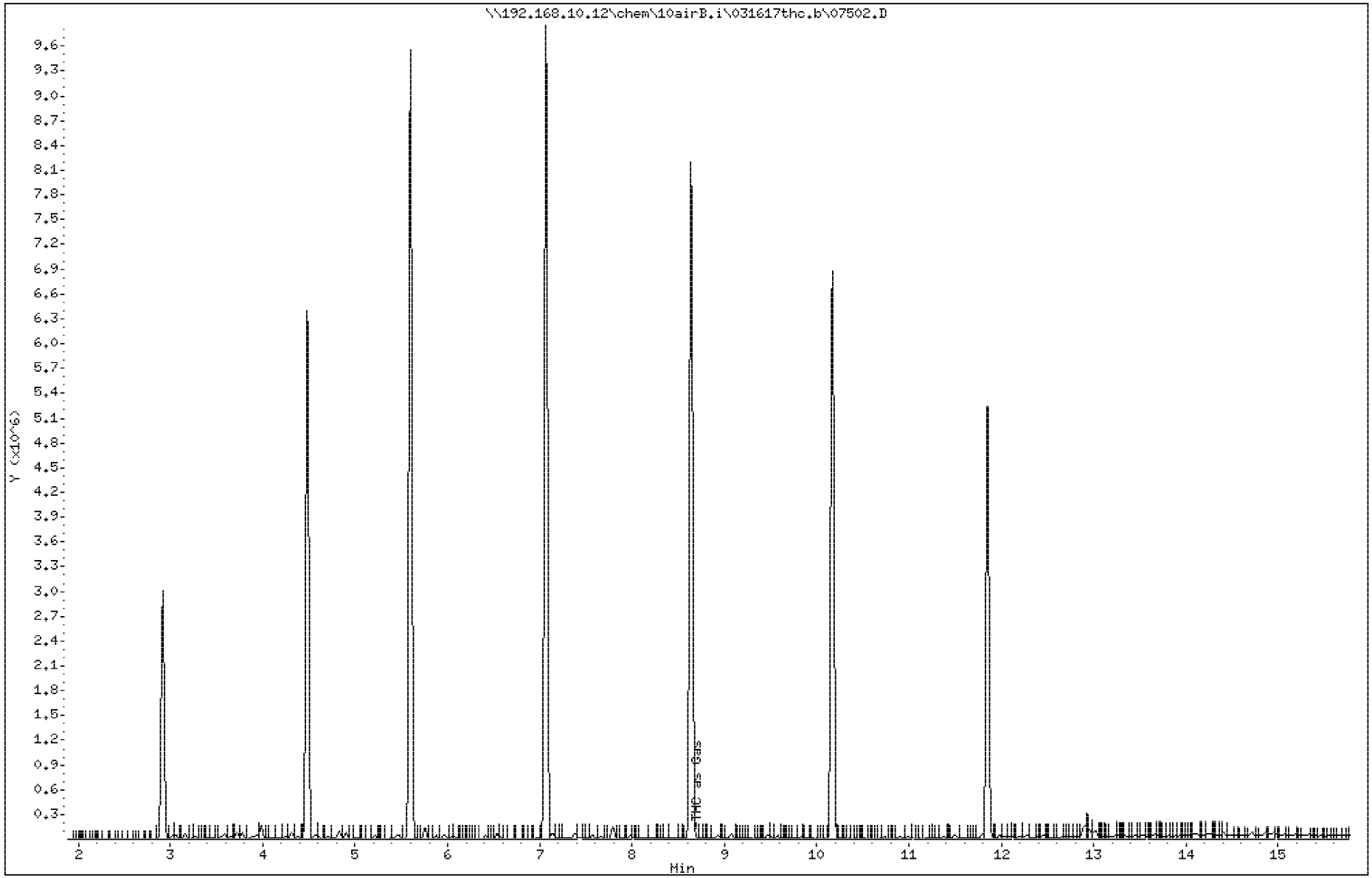
					AMOUNTS		
					CAL-AMT	ON-COL	
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)	
S 5 THC as Gas	2.900-14.500			92331459	11.9500		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\192.168.10.12\chem\10airB.i\031617thc.b\07502.D
Date : 16-MAR-2017 09:16
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: DB-624
Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\031617thc.b\07503.D
Lab Smp Id: cal2
Inj Date : 16-MAR-2017 09:44
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\031617thc.b\THC_075-17.m
Meth Date : 16-Mar-2017 15:20 10airB.i Quant Type: ESTD
Cal Date : 16-MAR-2017 09:16 Cal File: 07502.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

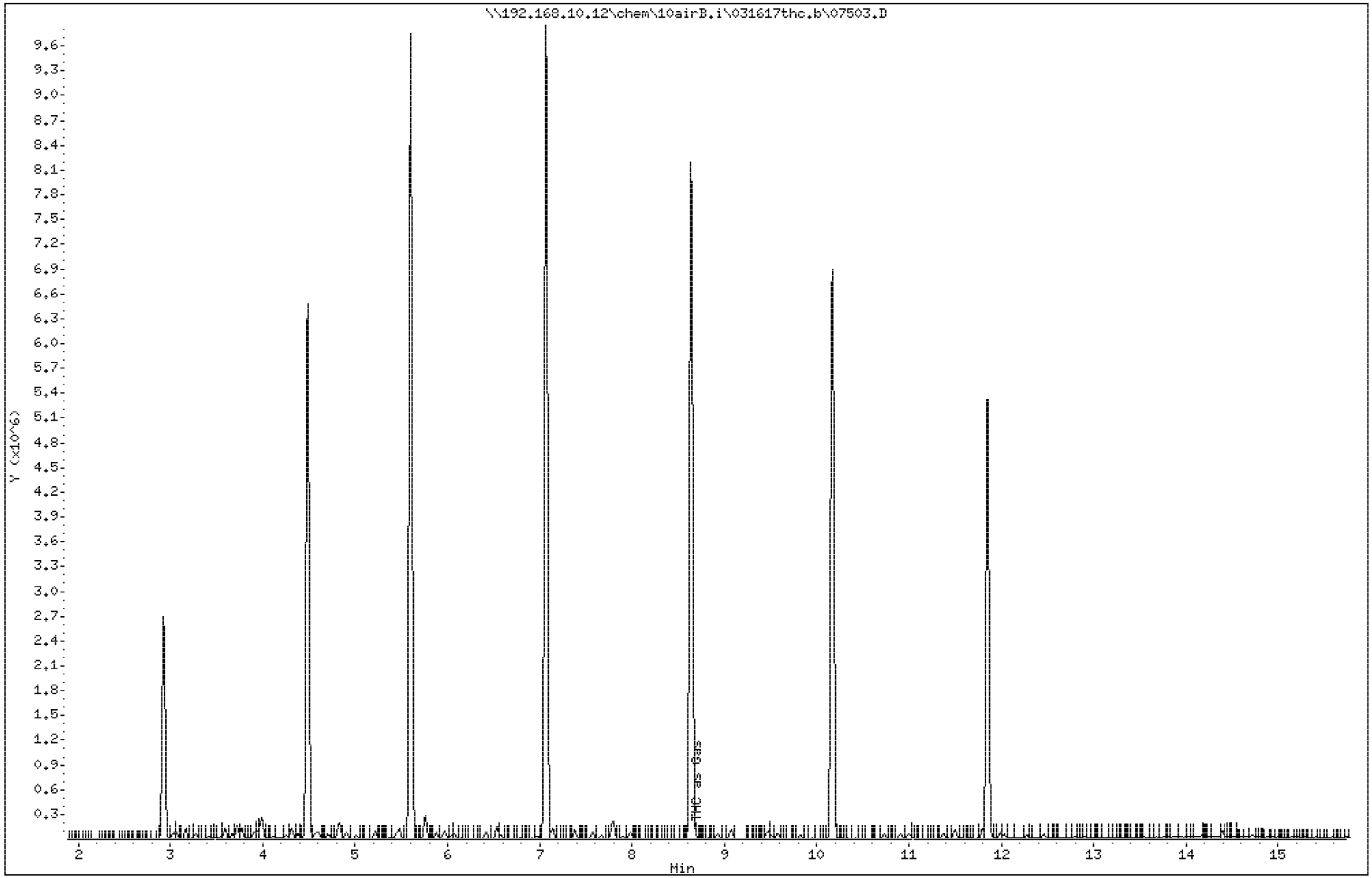
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			93125702	23.9000	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\192.168.10.12\chem\10airB.i\031617thc.b\07503.D
Date : 16-MAR-2017 09:44
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: DB-624
Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\031617thc.b\07504.D
Lab Smp Id: cal3
Inj Date : 16-MAR-2017 10:12
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\031617thc.b\THC_075-17.m
Meth Date : 16-Mar-2017 15:20 10airB.i Quant Type: ESTD
Cal Date : 16-MAR-2017 09:44 Cal File: 07503.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			105880564	59.7500	22.90(a)

QC Flag Legend

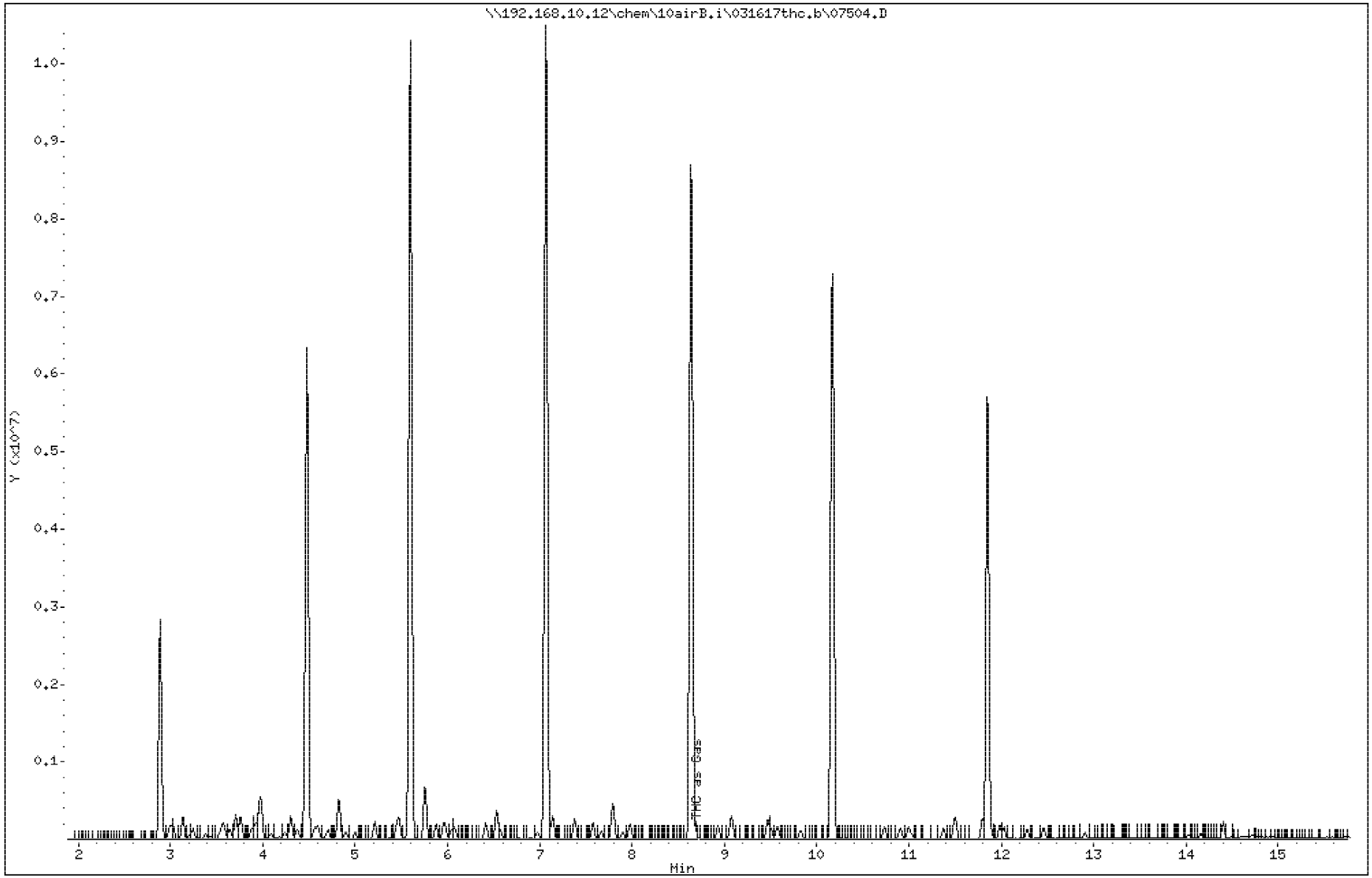
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\192.168.10.12\chem\10airB.i\031617thc.b\07504.D
Date : 16-MAR-2017 10:12
Client ID:
Sample Info:

Column phase: DB-624

Instrument: 10airB.i

Operator: NCK
Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\031617thc.b\07505.D
Lab Smp Id: cal4
Inj Date : 16-MAR-2017 10:42
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\031617thc.b\THC_075-17.m
Meth Date : 16-Mar-2017 15:20 10airB.i Quant Type: ESTD
Cal Date : 16-MAR-2017 10:12 Cal File: 07504.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

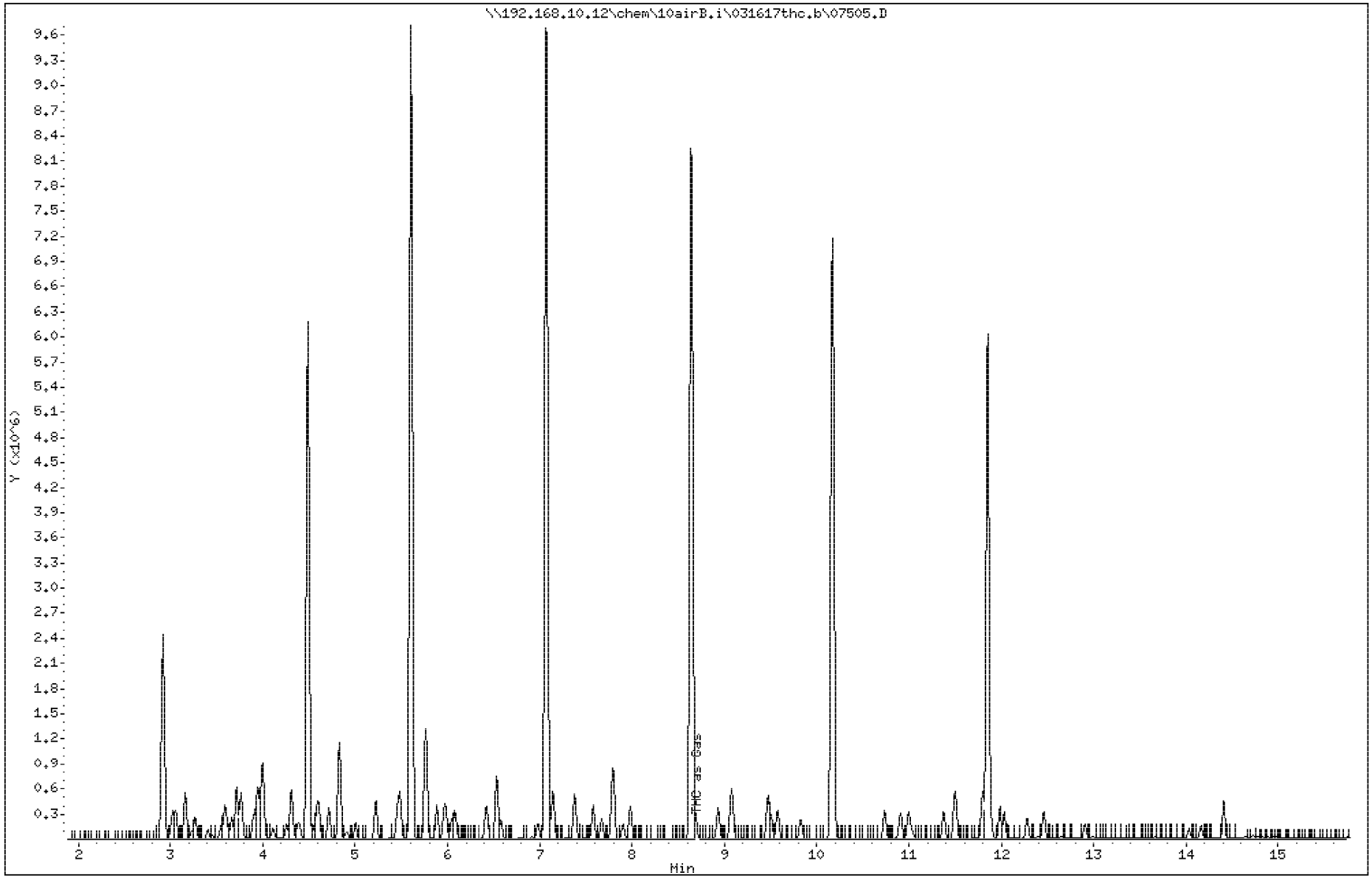
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			126841602	119.500	80.03

Data File: \\192.168.10.12\chem\10airB.i\031617thc.b\07505.D
Date : 16-MAR-2017 10:42
Client ID:
Sample Info:

Column phase: DB-624

Instrument: 10airB.i

Operator: NCK
Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\031617thc.b\07506.D
Lab Smp Id: cal5
Inj Date : 16-MAR-2017 11:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\031617thc.b\THC_075-17.m
Meth Date : 16-Mar-2017 15:20 10airB.i Quant Type: ESTD
Cal Date : 16-MAR-2017 10:42 Cal File: 07505.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			594802057	1195.00	1356

Data File: \\192.168.10.12\chem\10airB.i\031617thc.b\07506.D

Date : 16-MAR-2017 11:10

Client ID:

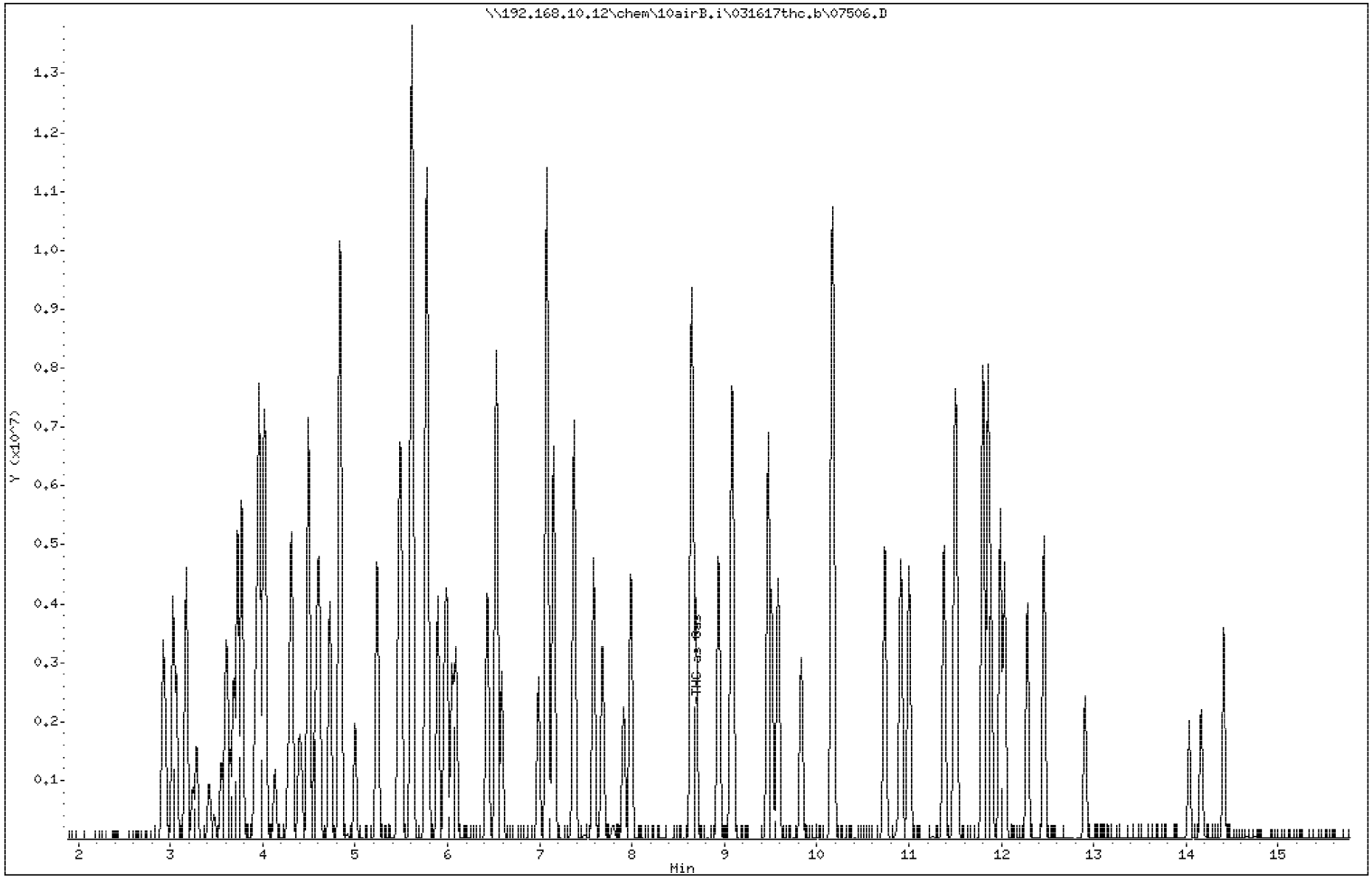
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: DB-624

Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\031617thc.b\07507.D
Lab Smp Id: cal6
Inj Date : 16-MAR-2017 11:39
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\031617thc.b\THC_075-17.m
Meth Date : 16-Mar-2017 15:20 10airB.i Quant Type: ESTD
Cal Date : 16-MAR-2017 11:10 Cal File: 07506.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

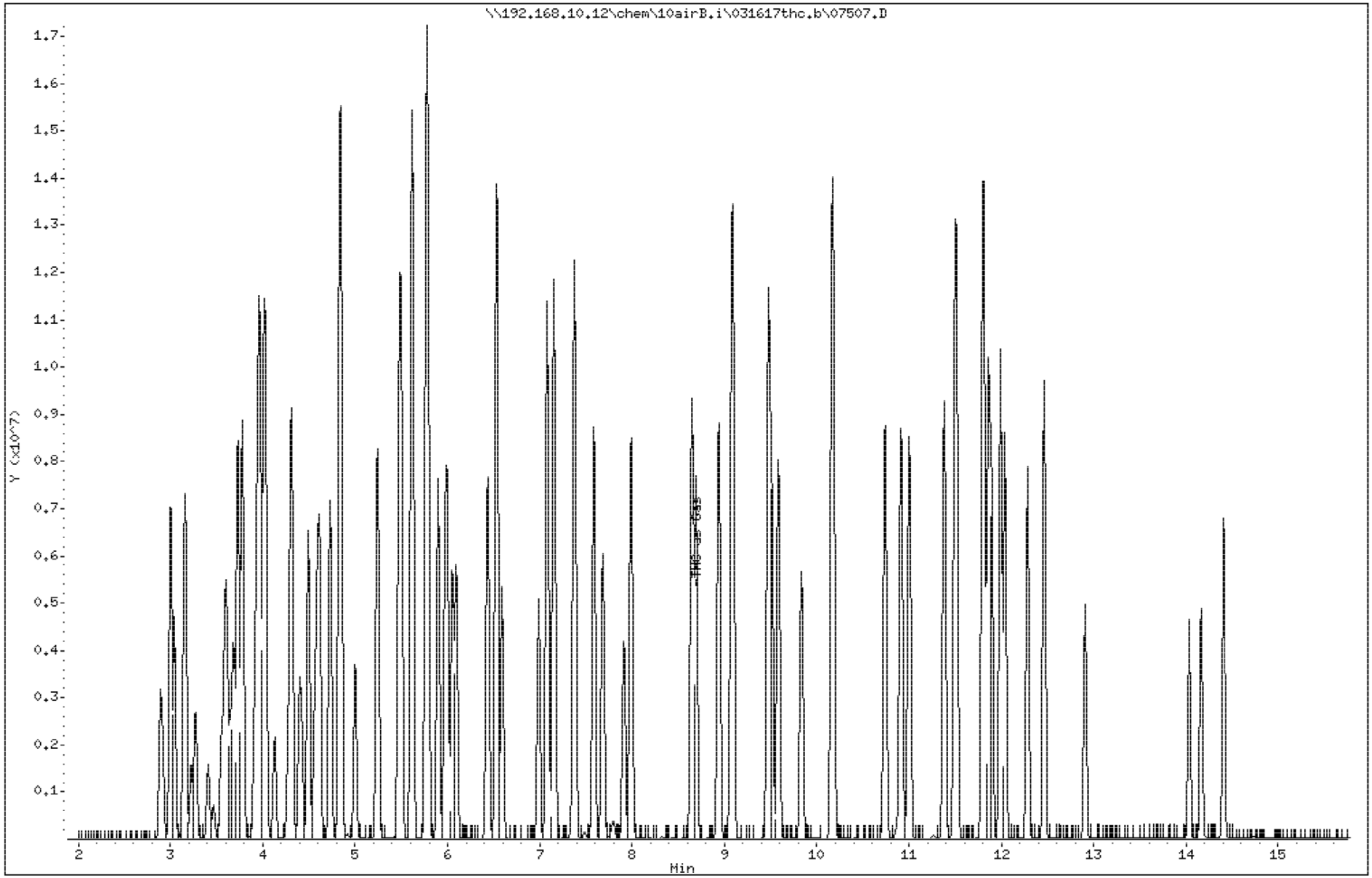
				AMOUNTS	
				CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			1006025528	2390.00	2476

Data File: \\192.168.10.12\chem\10airB.i\031617thc.b\07507.D
Date : 16-MAR-2017 11:39
Client ID:
Sample Info:

Column phase: DB-624

Instrument: 10airB.i

Operator: NCK
Column diameter: 0.32



Pace Analytical Services, Inc.

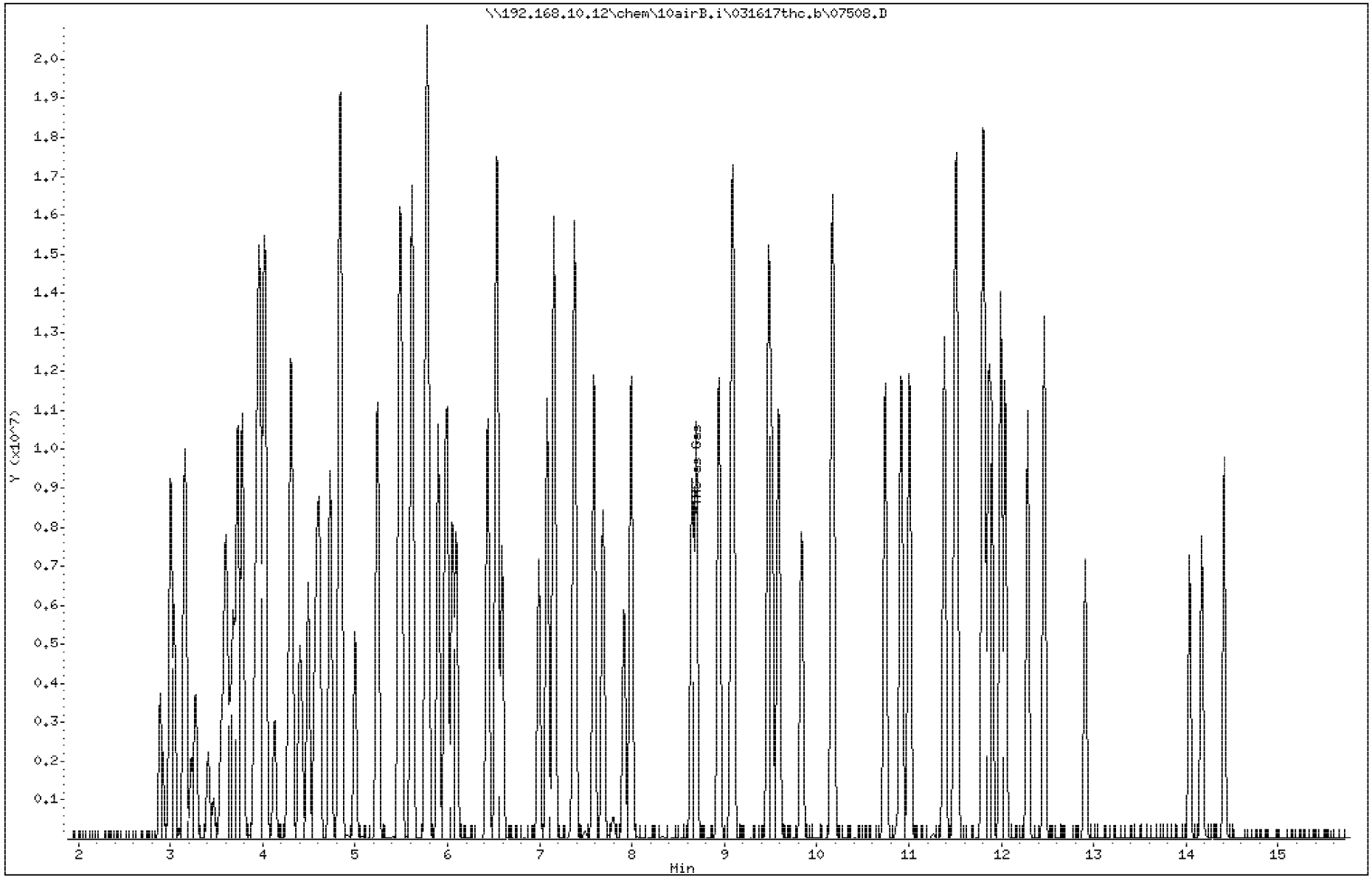
THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\031617thc.b\07508.D
Lab Smp Id: cal7
Inj Date : 16-MAR-2017 12:08
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\031617thc.b\THC_075-17.m
Meth Date : 16-Mar-2017 15:20 10airB.i Quant Type: ESTD
Cal Date : 16-MAR-2017 11:39 Cal File: 07507.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			1372811536	3585.00	3476

Data File: \\192.168.10.12\chem\10airB.i\031617thc.b\07508.D
Date : 16-MAR-2017 12:08
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: DB-624
Column diameter: 0.32



Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\031617thc.b\07510.D
Lab Smp Id: ICV
Inj Date : 16-MAR-2017 13:03
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\031617thc.b\THC_075-17.m
Meth Date : 16-Mar-2017 15:20 10airB.i Quant Type: ESTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			484690778	1055.41	1055

Data File: \\192.168.10.12\chem\10airB.i\031617thc.b\07510.D

Date : 16-MAR-2017 13:03

Client ID:

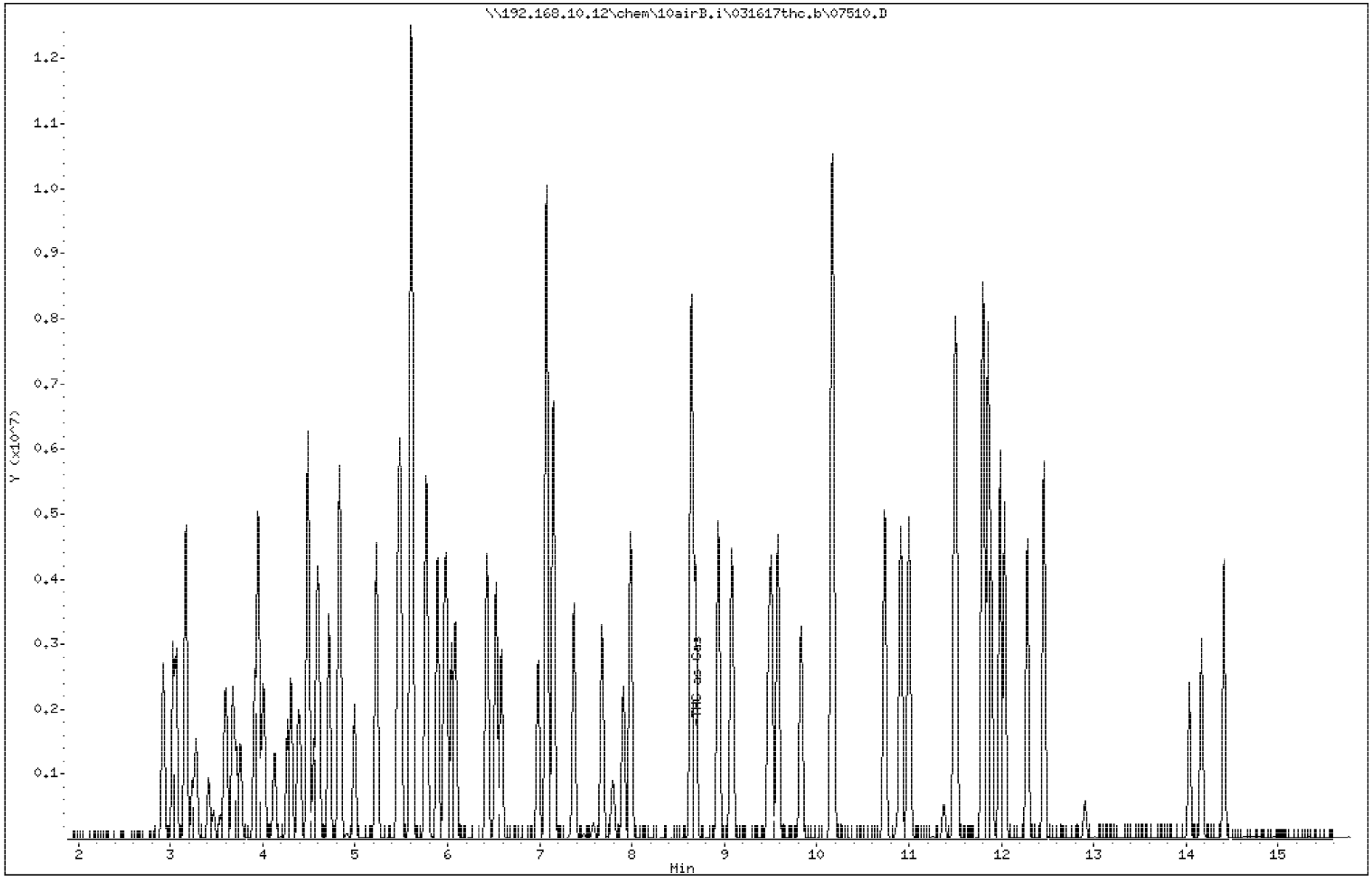
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: DB-624

Column diameter: 0.32



Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\031617.b\07502.D
Level 02: all \\192.168.10.12\chem\10airB.i\031617.b\07503.D
Level 03: all \\192.168.10.12\chem\10airB.i\031617.b\07504.D
Level 04: all \\192.168.10.12\chem\10airB.i\031617.b\07505.D
Level 05: all \\192.168.10.12\chem\10airB.i\031617.b\07506.D
Level 06: all \\192.168.10.12\chem\10airB.i\031617.b\07507.D
Level 07: all \\192.168.10.12\chem\10airB.i\031617.b\07508.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	13131	14527	22394	23259	549228	601205	+++++	QUAD	-0.00167	0.10430	-0.03157	0.99526
2 1,1-Difluoroethane	7567	12187	25415	48742	469160	908718	1304730	LINR	0.00117	0.05937		0.99977
3 Chlorodifluoromethane	0.03446	0.03157	0.03074	0.03114	0.02644	0.02585	0.02547	AVRG		0.02938		11.78062
4 Propylene	0.11281	0.11582	0.09848	0.10697	0.08200	0.08178	0.07980	AVRG		0.09681		16.10035

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Dichlorodifluoromethane	32067 / 5503000	53358	115925	224729	2044054	3887214	LINR	0.00730	0.25107		0.99932
6 Chloromethane	0.15208 / 0.12909	0.16680	0.13945	0.15626	0.13344	0.13231	AVRG		0.14421		9.91517
7 Dichlorotetrafluoroethane	0.32466 / 0.23081	0.33074	0.28356	0.30608	0.24626	0.23907	AVRG		0.28017		14.92771
8 Vinyl chloride	0.12760 / 0.10195	0.12238	0.10345	0.11614	0.10124	0.10321	AVRG		0.11085		9.92497
9 1,3-Butadiene	0.10135 / 0.08133	0.10098	0.08659	0.09509	0.08178	0.08083	AVRG		0.08971		10.30892
10 Bromomethane	0.08230 / 0.06859	0.08872	0.07684	0.08230	0.07226	0.06846	AVRG		0.07707		10.04558
11 Chloroethane	0.05565 / 0.04045	0.04705	0.04413	0.04850	0.04141	0.04038	AVRG		0.04537		12.22577

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Ethanol	0.04087	0.04312	0.03582	0.03927	0.03500	0.03464					
	0.03334						AVRG		0.03744		9.80000
13 Vinyl Bromide	0.09034	0.08312	0.07131	0.07982	0.06935	0.06409					
	0.06254						AVRG		0.07437		13.90402
14 Isopentane	10746	19196	45397	81472	796060	1532937					
	2136793						LINR	0.00266	0.09803		0.99889
15 Freon 123	0.17979	0.19833	0.17420	0.18732	0.08058	+++++					
	+++++						AVRG		0.16404		28.97235
16 Trichlorofluoromethane	0.23892	0.23628	0.19969	0.21568	0.18268	0.17360					
	0.16962						AVRG		0.20235		14.20679
17 Acrolein	0.03199	0.03965	0.03281	0.03685	0.03402	0.03199					
	0.03088						AVRG		0.03403		9.23954
18 Acetone	0.20833	0.19763	0.17001	0.17813	0.13864	0.12683					
	0.11187						AVRG		0.16163		22.64012

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	58510	120209	290912	566310	5904175	10228235					
	13311903						QUAD	0.00165	0.16979	-0.00327	0.99999
20 1,1-Dichloroethene	0.16760	0.15655	0.14675	0.15759	0.13513	0.13140					
	0.12928						AVRG		0.14633		10.14877
21 Acrylonitrile	0.08536	0.08326	0.07178	0.08376	0.07586	0.06851					
	0.06459						AVRG		0.07616		10.77799
22 Freon 113	0.18131	0.18480	0.15636	0.17258	0.13673	0.12642					
	0.12104						AVRG		0.15418		17.14045
23 Methyl Acetate	0.27310	0.29401	0.24987	0.27753	0.22201	0.20338					
	0.19216						AVRG		0.24458		16.11848
24 Tert Butyl Alcohol (TBA)	0.18985	0.21886	0.18891	0.20862	0.17249	0.15568					
	0.14387						AVRG		0.18261		14.84818
25 Methylene chloride	0.15884	0.15780	0.13200	0.14211	0.10822	0.09833					
	+++++						AVRG		0.13288		18.98632

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
26 Allyl Chloride	0.03088	0.03359	0.02648	0.02937	0.02739	0.02521					
	0.02414						AVRG		0.02815		11.83176
27 Carbon Disulfide	0.18680	0.17066	0.15073	0.16864	0.16118	0.15739					
	0.15671						AVRG		0.16459		7.29140
28 trans-1,2-dichloroethene	0.08149	0.07576	0.06537	0.07745	0.06831	0.06469					
	0.06431						AVRG		0.07105		9.91279
29 Methyl Tert Butyl Ether	0.20791	0.20593	0.18065	0.20140	0.16958	0.16039					
	0.15551						AVRG		0.18305		12.08723
30 Vinyl Acetate	0.24068	0.25937	0.21578	0.25237	0.24831	0.24333					
	0.24051						AVRG		0.24291		5.66557
31 1,1-Dichloroethane	0.17210	0.17326	0.14843	0.16499	0.14351	0.13817					
	0.13850						AVRG		0.15414		10.09103
33 Methyl Ethyl Ketone	0.04236	0.04487	0.03511	0.03727	0.03778	0.03155					
	0.03198						AVRG		0.03727		13.38613

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.19885	0.18874	0.15975	0.18638	0.18063	0.14560					
	0.14035						AVRG		0.17147		13.31840
35 Di-isopropyl Ether	0.35920	0.38471	0.32750	0.41717	0.38387	0.33280					
	0.28516						AVRG		0.35577		12.42325
36 Ethyl Acetate	0.23871	0.24300	0.20606	0.27975	0.25059	0.24736					
	0.22319						AVRG		0.24124		9.54476
37 cis-1,2-Dichloroethene	0.08896	0.08974	0.07099	0.09485	0.09459	0.09024					
	0.08145						AVRG		0.08726		9.67526
38 Ethyl Tert-Butyl Ether	0.33273	0.36862	0.33180	0.38743	0.32498	0.27863					
	0.24083						AVRG		0.32357		15.51740
39 Chloroform	0.17742	0.19542	0.18684	0.21602	0.18615	0.16396					
	0.15009						AVRG		0.18227		11.72841
40 Tetrahydrofuran	0.13388	0.12638	0.11258	0.13180	0.12831	0.13176					
	0.13133						AVRG		0.12801		5.66000

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
41 1,1,1-Trichloroethane	0.22687	0.22630	0.20769	0.23213	0.21316	0.20085					
	0.19184						AVRG		0.21412		7.00565
42 1,2-Dichloroethane	0.20272	0.19466	0.17034	0.19120	0.16972	0.15859					
	0.15158						AVRG		0.17697		10.96163
43 Benzene	0.29337	0.32311	0.27480	0.31490	0.28577	0.26925					
	0.25519						AVRG		0.28805		8.49459
44 Carbon tetrachloride	0.20826	0.20418	0.18570	0.21518	0.21264	0.19771					
	0.18713						AVRG		0.20154		5.85111
45 Cyclohexane	0.16216	0.20253	0.17053	0.19663	0.17438	0.16085					
	0.14895						AVRG		0.17372		11.21727
46 Tert Amyl Methyl Ether	80905	96697	156175	233267	1899489	3619267					
	5215626						LINR	0.01169	0.23432		0.99990
48 2,2,4-Trimethylpentane	0.59807	0.65385	0.58852	0.65364	0.51649	0.42050					
	0.35079						AVRG		0.54027		21.66922

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
49 Heptane	0.19227	0.21267	0.18953	0.21969	0.20728	0.20218					
	0.19768						AVRG		0.20304		5.37961
50 1,2-Dichloropropane	0.11831	0.12559	0.11354	0.12470	0.11887	0.11344					
	0.10860						AVRG		0.11758		5.28109
51 Trichloroethene	0.13954	0.14682	0.12411	0.13817	0.13424	0.13076					
	0.12903						AVRG		0.13467		5.61097
52 Methyl methacrylate	0.08624	0.09228	0.08581	0.09858	0.10034	0.09738					
	0.09375						AVRG		0.09348		6.19209
53 1,4-Dioxane	0.06177	0.06334	0.06134	0.06938	0.06629	0.06542					
	0.06119						AVRG		0.06410		4.78797
54 Bromodichloromethane	0.19623	0.21407	0.18682	0.21994	0.21538	0.20199					
	0.19172						AVRG		0.20374		6.31966
55 Methylcyclohexane	0.06792	0.08162	0.06588	0.08484	0.07958	0.07974					
	0.07904						AVRG		0.07695		9.30146

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
56 Methyl Isobutyl Ketone	0.24863	0.27007	0.25218	0.29292	0.28695	0.25483					
	+++++						AVRG		0.26760		7.05541
57 cis-1,3-Dichloropropene	0.12230	0.13819	0.12991	0.14878	0.16791	0.16532					
	0.15994						AVRG		0.14748		12.13381
58 trans-1,3-Dichloropropene	6286	13209	34444	76938	1227333	2367554					
	3473870						LINR	-0.00154	0.15887		0.99990
60 1,1,2-Trichloroethane	0.12030	0.12511	0.10749	0.11938	0.11763	0.11160					
	0.10547						AVRG		0.11528		6.28275
61 Toluene	0.37242	0.35414	0.30745	0.34596	0.33831	0.32188					
	0.30132						AVRG		0.33450		7.68096
62 Methyl Butyl Ketone	35399	68380	173161	369960	4988064	8951590					
	+++++						QUAD	-0.01261	0.43480	-0.01898	0.99987
63 n-Octane	0.36177	0.35297	0.34196	0.37385	0.41512	0.37836					
	0.34875						AVRG		0.36754		6.73271

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
64 Dibromochloromethane	0.22185	0.23149	0.22349	0.25697	0.32654	0.30639					
	0.29302						AVRG		0.26568		16.15631
65 1,2-Dibromoethane	0.24015	0.24492	0.23634	0.25484	0.29035	0.27131					
	0.25686						AVRG		0.25639		7.42658
66 Tetrachloroethene	0.22867	0.22759	0.21656	0.22345	0.24006	0.22953					
	0.22200						AVRG		0.22684		3.25152
68 Chlorobenzene	0.35931	0.36397	0.33314	0.34704	0.39857	0.38064					
	0.36564						AVRG		0.36404		5.86613
69 Ethyl Benzene	0.55493	0.54197	0.51105	0.57703	0.67348	0.62000					
	0.57273						AVRG		0.57874		9.25634
70 m&p-Xylene	36547	76470	193153	394579	5292486	9330830					
	12499517						QUAD	-0.00949	0.55867	-0.02804	0.99981
71 n-Nonane	0.27403	0.30110	0.27032	0.32914	0.37953	0.32168					
	0.28062						AVRG		0.30806		12.65686

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
72 Bromoform	5798	11527	32186	70796	1308248	2478644	3501253	QUAD	-0.00520	0.27086	-0.01696	0.99984
73 Styrene	11042	22989	62805	134105	2003651	3761512	5282471	QUAD	-0.00542	0.41382	-0.02761	0.99991
74 o-Xylene	0.43318	0.43224	0.39707	0.43201	0.52116	0.46788	0.43083	AVRG		0.44491		8.84574
75 1,1,2,2-Tetrachloroethane	10277	21473	50861	111021	1607918	3048140	4356408	QUAD	-0.00359	0.32644	-0.01795	0.99991
76 Isopropylbenzene	0.62179	0.59839	0.52279	0.58039	0.67061	0.60549	0.55429	AVRG		0.59339		8.02971
77 N-Propylbenzene	22512	45205	122641	272313	4230588	7783443	10741845	QUAD	-0.01302	0.88520	-0.07057	0.99987
78 4-Ethyltoluene	16882	35375	92804	218331	3537813	6573456	9214634	QUAD	-0.01170	0.73224	-0.05147	0.99985

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,3,5-Trimethylbenzene	15530 / 7607993	33073	84978	188512	2915580	5428846	QUAD	-0.00848	0.60274	-0.04200	0.99988
80 n-Decane	0.16245 / 0.24681	0.15558	0.13684	0.18118	0.26189	0.25766	AVRG		0.20034		26.62492
81 Tert-Butyl Benzene	17044 / 7546316	35349	94889	209358	2957365	5405075	QUAD	-0.00658	0.60888	-0.04568	0.99983
82 1,2,4-Trimethylbenzene	14901 / 6606208	30258	82259	175616	2664072	4817484	QUAD	-0.00733	0.55733	-0.04789	0.99982
83 1,3-Dichlorobenzene	8339 / 4394121	17279	45018	96695	1608646	3080142	QUAD	-0.00526	0.32955	-0.01796	0.99990
84 Sec- Butylbenzene	22507 / 9212233	46846	117667	258353	3842670	6811629	QUAD	-0.01007	0.80902	-0.07753	0.99975
86 Benzyl Chloride	7683 / 4947011	13457	25914	63568	1582891	3338294	LINR	-0.00735	0.31301		0.99965

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
87 1,4-Dichlorobenzene	8792 / 4488303	17841	46584	96361	1579256	3070407	QUAD	-0.00449	0.31594	-0.01158	0.99990
88 p-Isopropyltoluene	16175 / 8220757	35065	87746	195118	3155394	5870404	LINR	0.01009	0.52638		0.99568
89 1,2,3-Trimethylbenzene	13825 / 6653035	29342	76197	165413	2555897	4796475	QUAD	-0.00791	0.53497	-0.03916	0.99991
90 1,2-Dichlorobenzene	8167 / 4298303	15649	40377	84735	1468009	2931784	LINR	-0.00129	0.27189		0.99938
91 N-Butylbenzene	12353 / 7020024	24134	65622	154113	2633143	5019857	QUAD	-0.01029	0.55118	-0.03660	0.99989
92 1,2-Dibromo-3-Chloropropane	3358 / 1737382	4849	12878	33797	541546	1127640	LINR	-0.00238	0.10846		0.99980
93 1,2,4-Trichlorobenzene	515 / 1840861	1879	9513	25086	462690	1088818	QUAD	-0.00155	0.07846	0.01231	0.99998

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
94 Naphthalene	3315 / 5043626	8891	30842	84847	1406933	3147835	LINR	-0.01329	0.31201		0.99786
							AVRG		0.12598		14.19111
95 Hexachlorobutadiene	0.13241 / 0.10664	0.13333	0.13299	0.15599	0.11176	0.10876					
$ 32 Hexane-d14(S)	0.34799 / 0.33802	0.35417	0.33822	0.35174	0.33822	0.33087	AVRG		0.34275		2.50800
$ 59 Toluene-d8 (S)	0.90729 / 0.95728	0.91035	0.89742	0.91886	0.91507	0.93974	AVRG		0.92086		2.24531
$ 85 1,4-dichlorobenzene-d4 (S)	0.43998 / 0.51580	0.44143	0.44337	0.50337	0.50943	0.52460	AVRG		0.48257		8.05631

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Average %RSD Results.
Calculated Average %RSD = 10.81874
Maximun Average %RSD = 30.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07502.D
Report Date: 20-Mar-2017 12:25

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\031617.b\07502.D
Lab Smp Id: cal1
Inj Date : 16-MAR-2017 09:16
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Meth Date : 20-Mar-2017 12:18 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.915	(0.527)	13131	0.10000	0.357
2	1,1-Difluoroethane	65	3.018	3.005	(0.539)	7567	0.10000	(aQ)
3	Chlorodifluoromethane	67	3.038	3.005	(0.543)	2253	0.10000	0.117(Q)
4	Propylene	41	3.031	2.999	(0.542)	7376	0.10000	0.117
5	Dichlorodifluoromethane	85	3.066	3.041	(0.548)	32067	0.10000	(a)
6	Chloromethane	50	3.160	3.144	(0.565)	9944	0.10000	0.105
7	Dichlorotetrafluoroethane	85	3.156	3.160	(0.564)	21228	0.10000	0.116
8	Vinyl chloride	62	3.237	3.224	(0.578)	8343	0.10000	0.115
9	1,3-Butadiene	54	3.266	3.272	(0.584)	6627	0.10000	0.113
10	Bromomethane	94	3.401	3.410	(0.608)	5381	0.10000	0.107
11	Chloroethane	64	3.455	3.465	(0.617)	3639	0.10000	0.123
12	Ethanol	45	3.555	3.552	(0.635)	13363	0.50000	0.546
13	Vinyl Bromide	106	3.571	3.581	(0.638)	5907	0.10000	0.121
14	Isopentane	43	3.584	3.600	(0.640)	10746	0.10000	(a)
15	Freon 123	83	3.591	3.607	(0.642)	11756	0.10000	0.110(Q)
16	Trichlorofluoromethane	101	3.658	3.674	(0.654)	15622	0.10000	0.118
17	Acrolein	56	3.677	3.690	(0.657)	5229	0.25000	0.235
18	Acetone	43	3.719	3.729	(0.665)	68109	0.50000	0.644
19	Isopropyl Alcohol	45	3.774	3.777	(0.674)	58510	0.50000	0.430
20	1,1-Dichloroethene	61	3.893	3.912	(0.696)	10959	0.10000	0.115
21	Acrylonitrile	53	3.912	3.934	(0.699)	13953	0.25000	0.280
22	Freon 113	101	3.931	3.951	(0.702)	11855	0.10000	0.118
23	Methyl Acetate	43	3.954	3.967	(0.706)	17857	0.10000	0.112

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07502.D
Report Date: 20-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.973	3.967	(0.710)	31034	0.25000	0.260(Q)
	25 Methylene chloride	49	3.980	4.005	(0.711)	51929	0.50000	0.598(H)
	26 Allyl Chloride	76	3.989	4.021	(0.713)	5047	0.25000	0.274(Q)
	27 Carbon Disulfide	76	4.105	4.127	(0.733)	12214	0.10000	0.113
	28 trans-1,2-dichloroethene	96	4.246	4.282	(0.759)	5328	0.10000	0.115
	29 Methyl Tert Butyl Ether	73	4.314	4.307	(0.771)	33986	0.25000	0.284
	30 Vinyl Acetate	43	4.369	4.398	(0.781)	15737	0.10000	0.0991
	31 1,1-Dichloroethane	63	4.378	4.417	(0.782)	11253	0.10000	0.112
$	32 Hexane-d14(S)	66	4.481	4.491	(0.801)	2275375	10.0000	10.2
	33 Methyl Ethyl Ketone	72	4.565	4.561	(0.816)	2770	0.10000	0.114(Q)
	34 n-Hexane	57	4.578	4.584	(0.818)	13002	0.10000	0.116(QM)
	35 Di-isopropyl Ether	45	4.600	4.610	(0.822)	23487	0.10000	0.101
	36 Ethyl Acetate	43	4.719	4.722	(0.843)	15608	0.10000	0.0990
	37 cis-1,2-Dichloroethene	96	4.697	4.732	(0.839)	5817	0.10000	0.102(M)
	38 Ethyl Tert-Butyl Ether	59	4.828	4.832	(0.863)	54390	0.25000	0.257
	39 Chloroform	83	4.812	4.851	(0.860)	11601	0.10000	0.0973
	40 Tetrahydrofuran	42	5.012	4.996	(0.895)	8754	0.10000	0.105
	41 1,1,1-Trichloroethane	97	5.217	5.237	(0.932)	14834	0.10000	0.106
	42 1,2-Dichloroethane	62	5.211	5.246	(0.931)	13255	0.10000	0.115
	43 Benzene	78	5.446	5.471	(0.973)	19182	0.10000	0.102
	44 Carbon tetrachloride	117	5.468	5.491	(0.977)	13617	0.10000	0.103
	45 Cyclohexane	56	5.478	5.494	(0.979)	10603	0.10000	0.0933
	46 Tert Amyl Methyl Ether	73	5.597	5.610	(1.000)	80905	0.10000	0.0292(aQ)
*	47 1,4-Difluorobenzene	114	5.597	5.619	(1.000)	6538610	10.0000	
	48 2,2,4-Trimethylpentane	57	5.758	5.777	(1.029)	97764	0.25000	0.277
	49 Heptane	43	5.877	5.896	(1.050)	12572	0.10000	0.0947
	50 1,2-Dichloropropane	63	5.960	5.973	(1.065)	7736	0.10000	0.101
	51 Trichloroethene	130	5.970	5.992	(1.067)	9124	0.10000	0.104
	52 Methyl methacrylate	69	6.044	6.050	(1.080)	5639	0.10000	0.0923
	53 1,4-Dioxane	88	6.095	6.073	(1.089)	4039	0.10000	0.0964(Q)
	54 Bromodichloromethane	83	6.070	6.092	(1.084)	12831	0.10000	0.0963
	55 Methylcyclohexane	98	6.410	6.439	(1.145)	4441	0.10000	0.0883(Q)
	56 Methyl Isobutyl Ketone	43	6.545	6.536	(1.169)	40642	0.25000	0.232
	57 cis-1,3-Dichloropropene	75	6.578	6.590	(1.175)	7997	0.10000	0.0829
	58 trans-1,3-Dichloropropene	75	6.976	6.989	(1.246)	6286	0.10000	0.158
$	59 Toluene-d8 (S)	98	7.066	7.082	(1.263)	5932383	10.0000	9.85
	60 1,1,2-Trichloroethane	97	7.134	7.150	(1.275)	7866	0.10000	0.104
	61 Toluene	91	7.140	7.159	(1.276)	24351	0.10000	0.111(M)
	62 Methyl Butyl Ketone	43	7.381	7.378	(0.854)	35399	0.25000	0.473
	63 n-Octane	43	7.578	7.587	(0.877)	16167	0.10000	0.0984
	64 Dibromochloromethane	129	7.664	7.687	(0.887)	9914	0.10000	0.0835(M)
	65 1,2-Dibromoethane	107	7.905	7.912	(0.915)	10732	0.10000	0.0937
	66 Tetrachloroethene	166	7.979	7.989	(0.924)	10219	0.10000	0.101
*	67 Chlorobenzene - d5	117	8.639	8.648	(1.000)	4468862	10.0000	
	68 Chlorobenzene	112	8.684	8.690	(1.005)	16057	0.10000	0.0987
	69 Ethyl Benzene	91	8.928	8.941	(1.033)	24799	0.10000	0.0959
	70 m&p-Xylene	91	9.073	9.089	(1.050)	36547	0.20000	0.317
	71 n-Nonane	43	9.468	9.471	(1.096)	12246	0.10000	0.0890
	72 Bromoform	173	9.471	9.484	(1.096)	5798	0.10000	0.240
	73 Styrene	104	9.503	9.513	(1.100)	11042	0.10000	0.191(M)
	74 o-Xylene	91	9.574	9.584	(1.108)	19358	0.10000	0.0974
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.831	(1.138)	10277	0.10000	0.181
	76 Isopropylbenzene	105	10.159	10.166	(1.176)	27787	0.10000	0.105
	77 N-Propylbenzene	91	10.735	10.741	(1.243)	22512	0.10000	0.204

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07502.D
Report Date: 20-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.915	(1.263)	16882	0.10000	0.212
79	1,3,5-Trimethylbenzene	105	10.989	11.005	(1.272)	15530	0.10000	0.199
80	n-Decane	57	11.378	11.384	(2.033)	10622	0.10000	0.0811(M)
81	Tert-Butyl Benzene	119	11.491	11.500	(1.330)	17044	0.10000	0.171
82	1,2,4-Trimethylbenzene	105	11.507	11.516	(1.332)	14901	0.10000	0.192
83	1,3-Dichlorobenzene	146	11.786	11.799	(1.364)	8339	0.10000	0.216
84	Sec- Butylbenzene	105	11.802	11.812	(1.366)	22507	0.10000	0.187
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.857	(1.371)	1966210	10.0000	9.12
86	Benzyl Chloride	91	11.854	11.870	(1.372)	7683	0.10000	0.290
87	1,4-Dichlorobenzene	146	11.880	11.896	(1.375)	8792	0.10000	0.204(QM)
88	p-Isopropyltoluene	119	11.986	11.992	(1.387)	16175	0.10000	(a)
89	1,2,3-Trimethylbenzene	105	12.031	12.040	(1.393)	13825	0.10000	0.206
90	1,2-Dichlorobenzene	146	12.278	12.285	(1.421)	8167	0.10000	0.115(M)
91	N-Butylbenzene	91	12.458	12.465	(1.442)	12353	0.10000	0.237
92	1,2-Dibromo-3-Chloropropane	157	12.902	12.908	(1.494)	3358	0.10000	0.289
93	1,2,4-Trichlorobenzene	180	14.031	14.034	(1.624)	515	0.10000	0.212(Q)
94	Naphthalene	128	14.166	14.166	(1.640)	3315	0.10000	0.450
95	Hexachlorobutadiene	225	14.410	14.413	(1.668)	5917	0.10000	0.105

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07502.D
Report Date: 20-Mar-2017 12:25

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07502.D
Lab Smp Id: cal1
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Misc Info:

Calibration Date: 16-MAR-2017
Calibration Time: 11:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

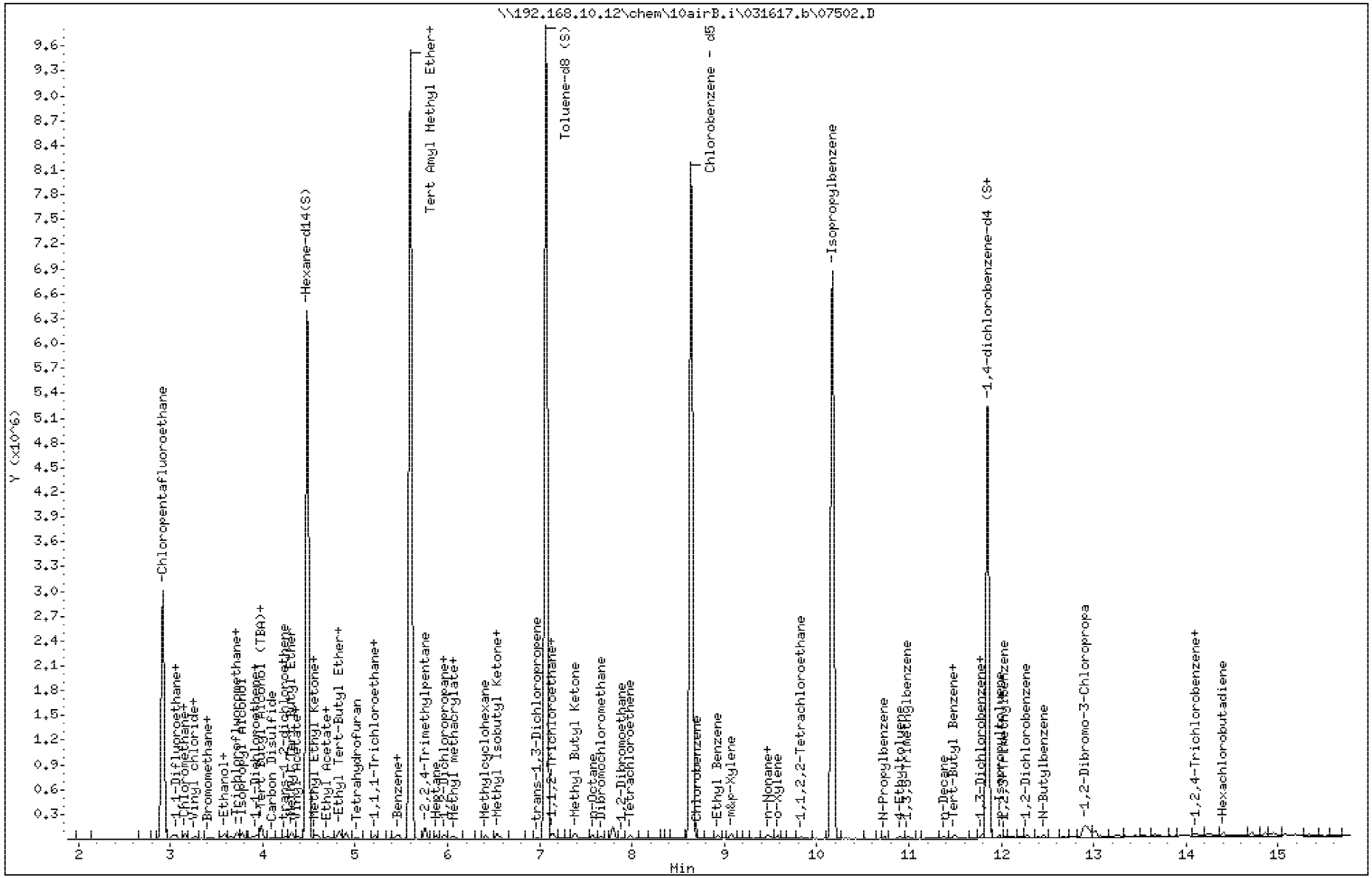
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6538610	-14.43
67 Chlorobenzene - d	5205948	3123569	7288327	4468862	-14.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.60	-0.34
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

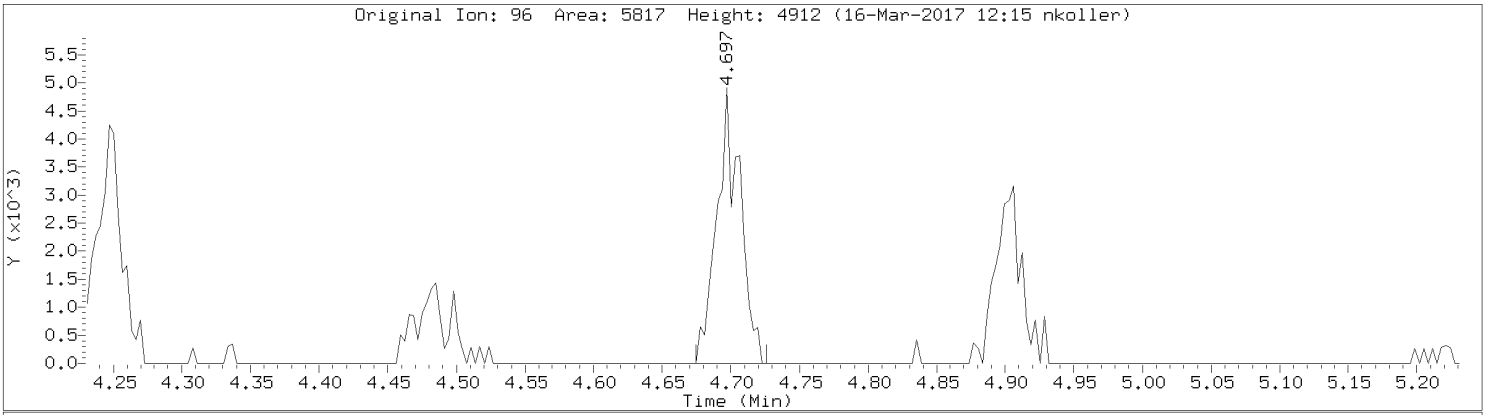
Data File: \\192.168.10.12\chem\10airB.i\031617.b\07502.D
Date : 16-MAR-2017 09:16
Client ID:
Sample Info:

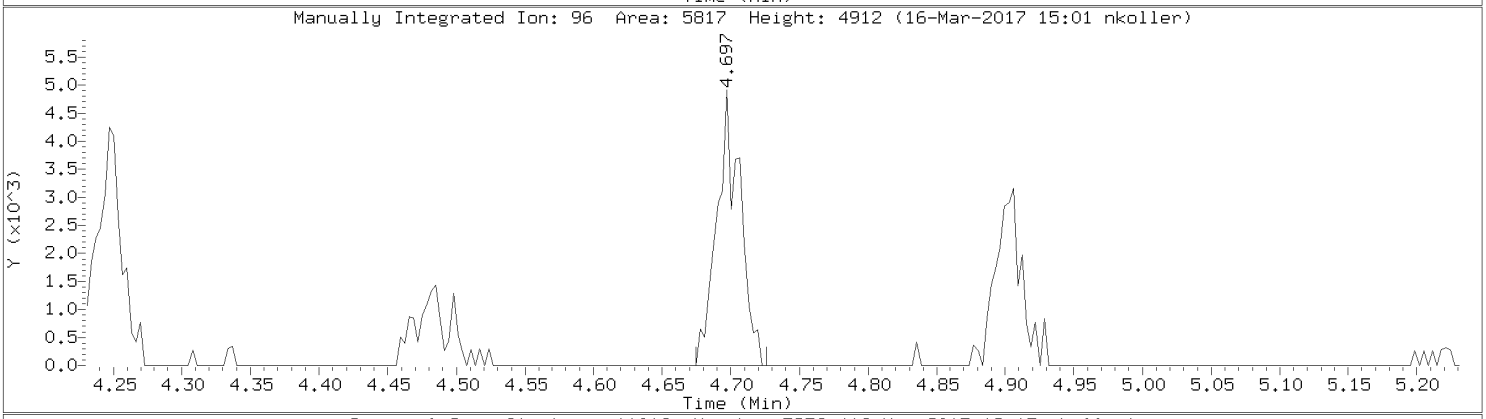
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

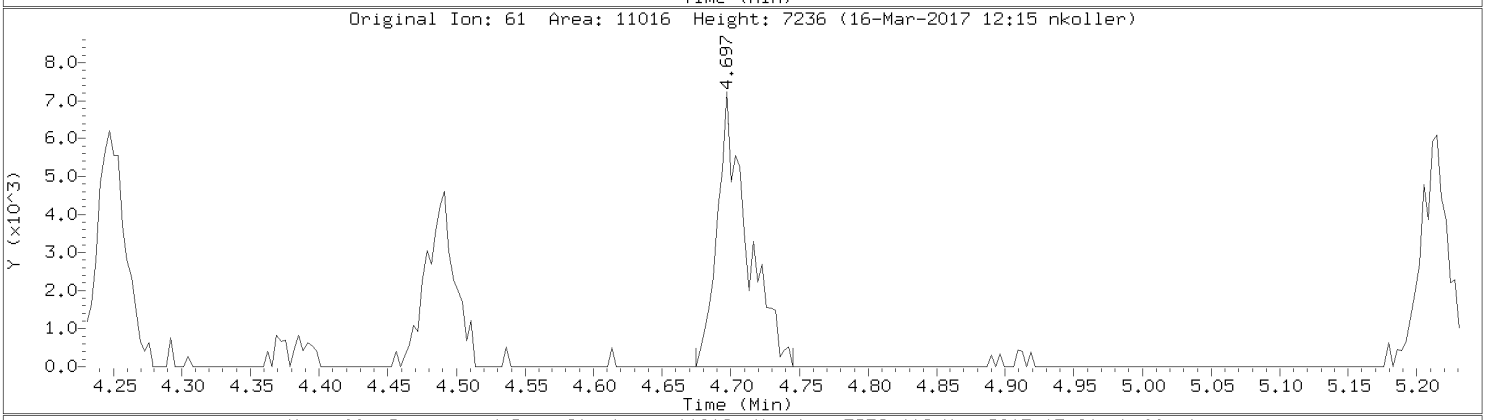


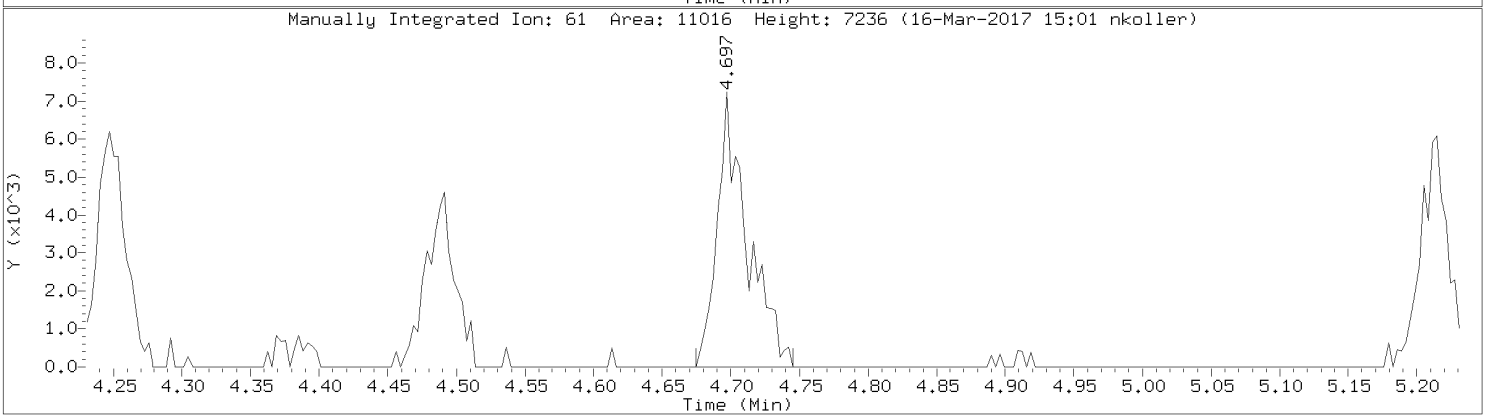
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: cis-1,2-Dichloroethene
CAS Number: 156-59-2

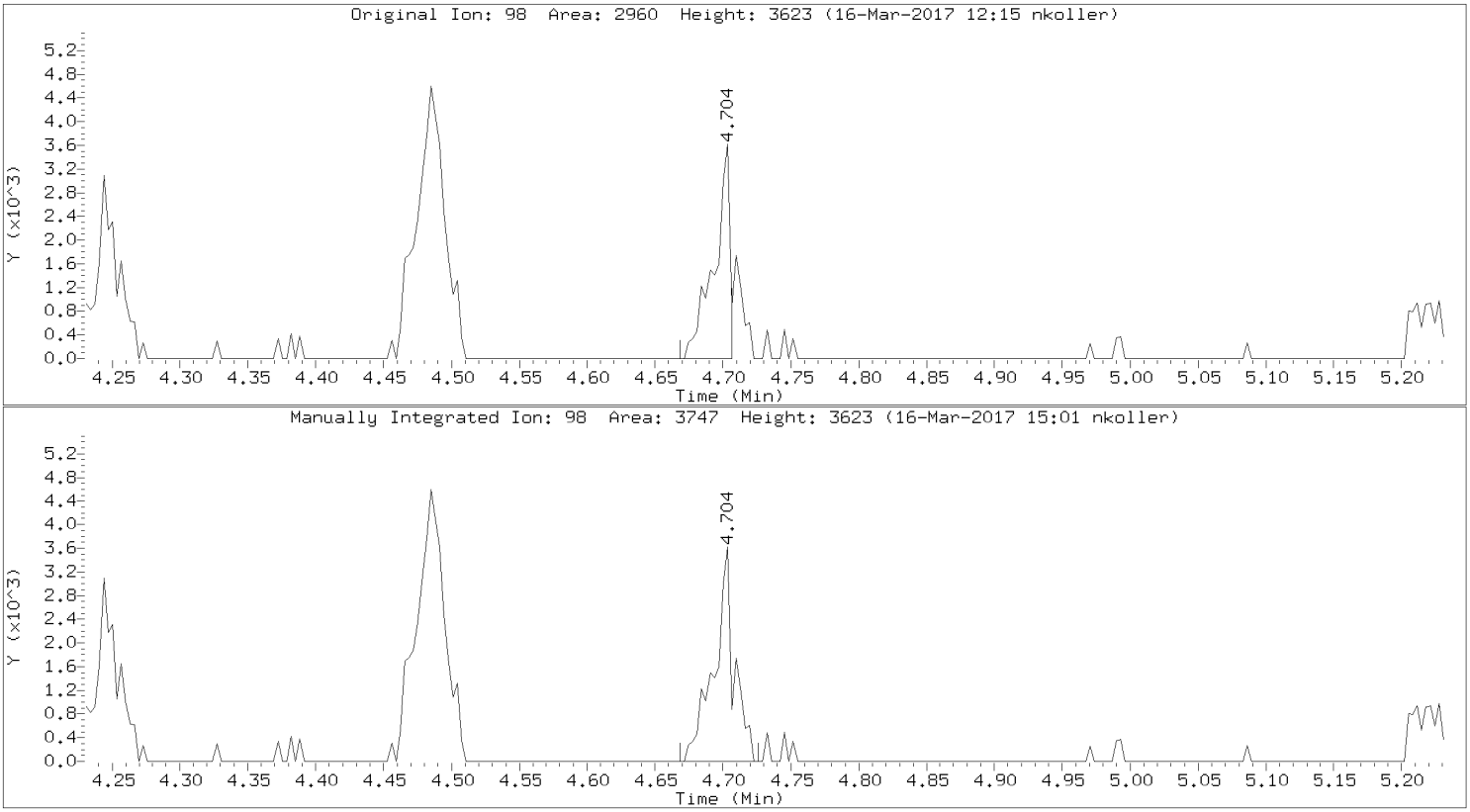






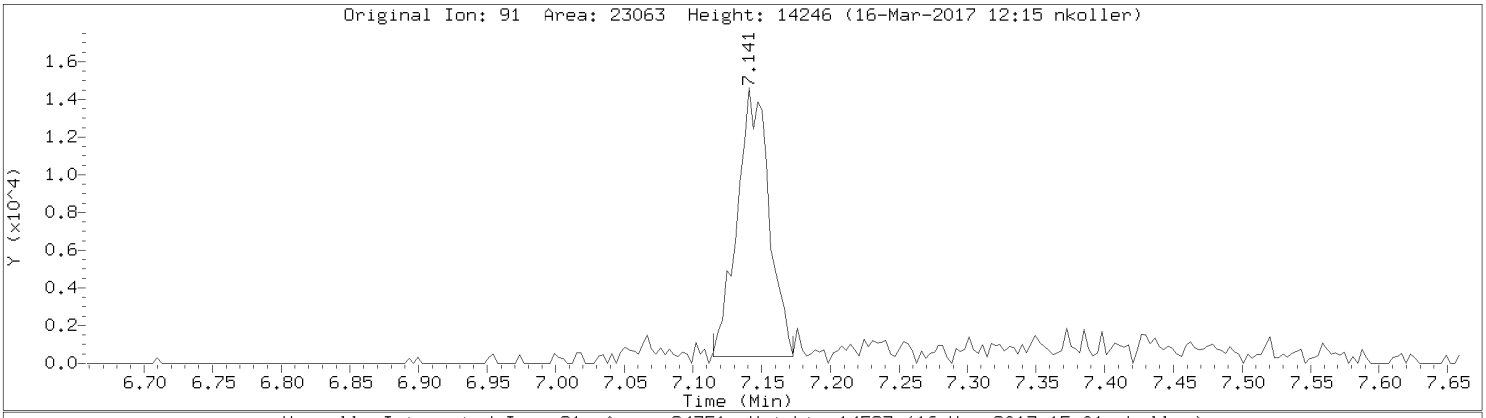


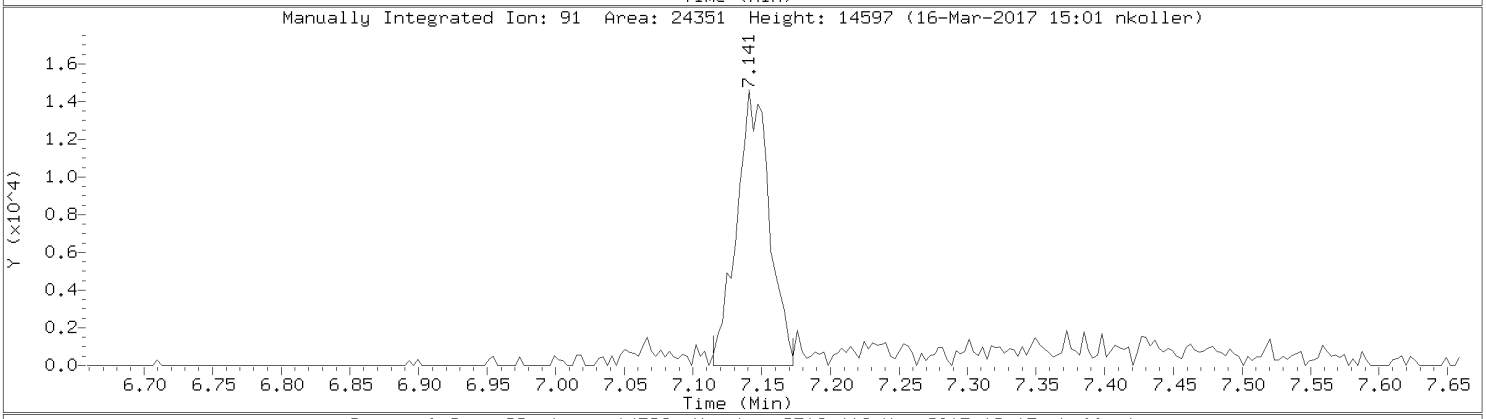
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: call

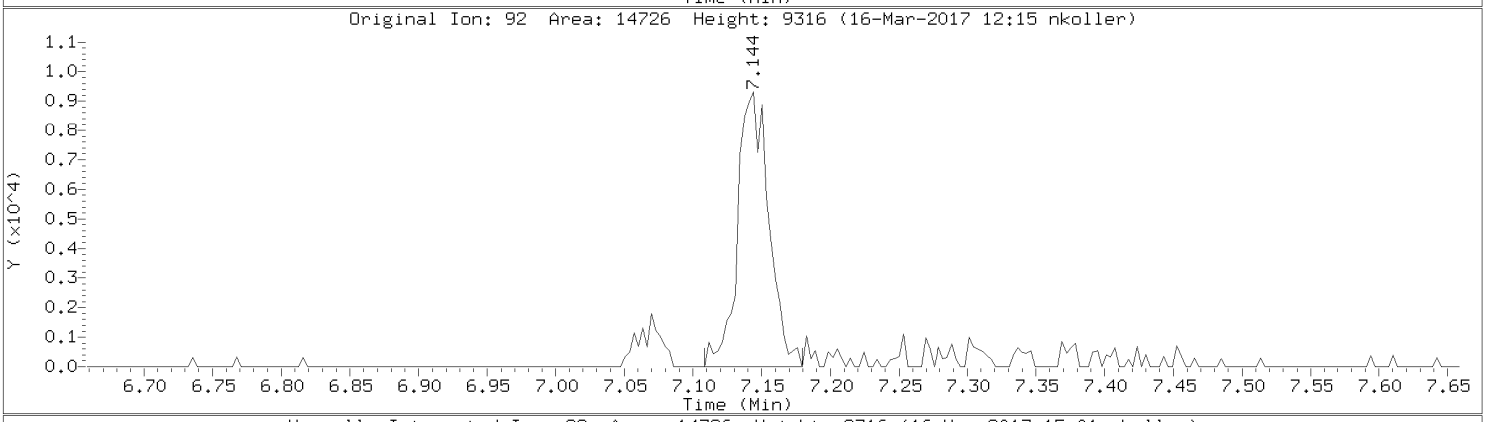


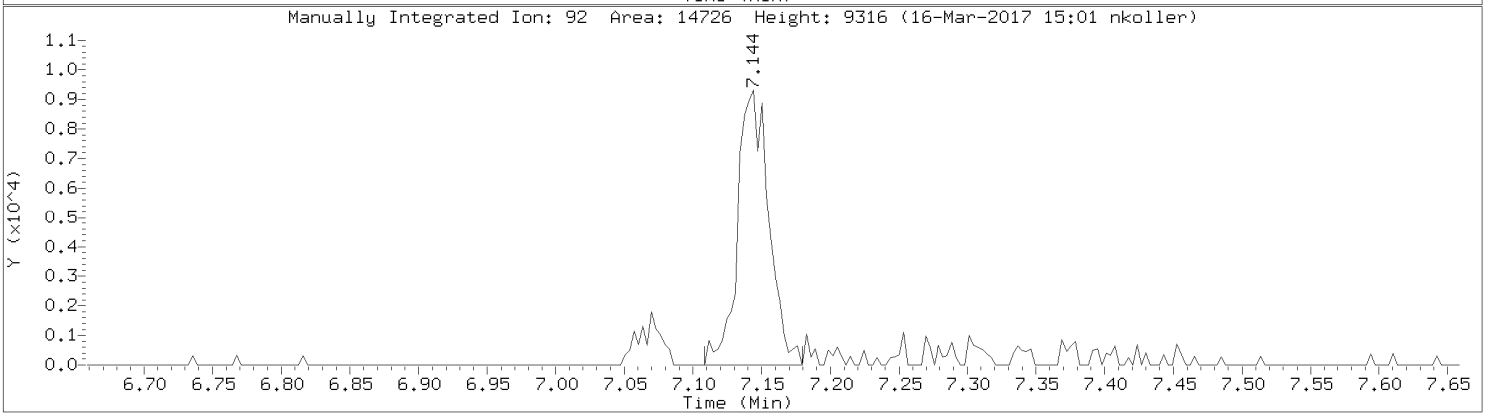
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Toluene
CAS Number: 108-88-3



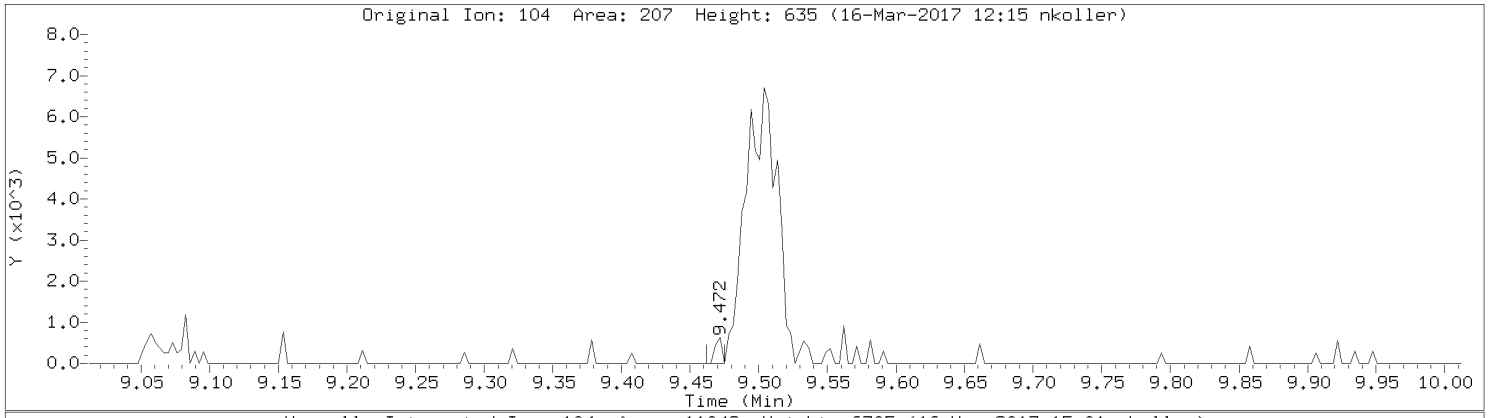


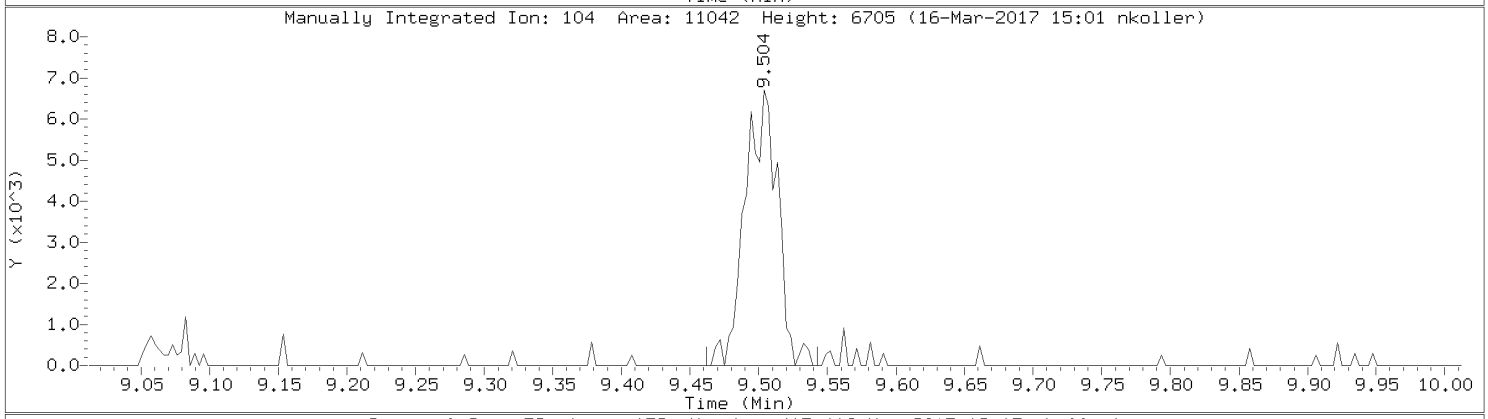


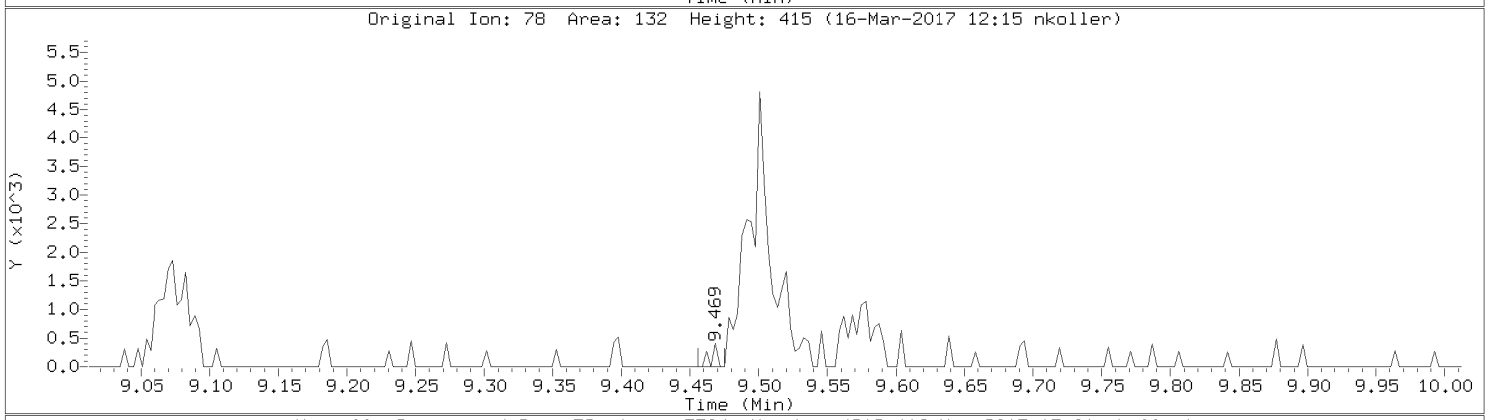


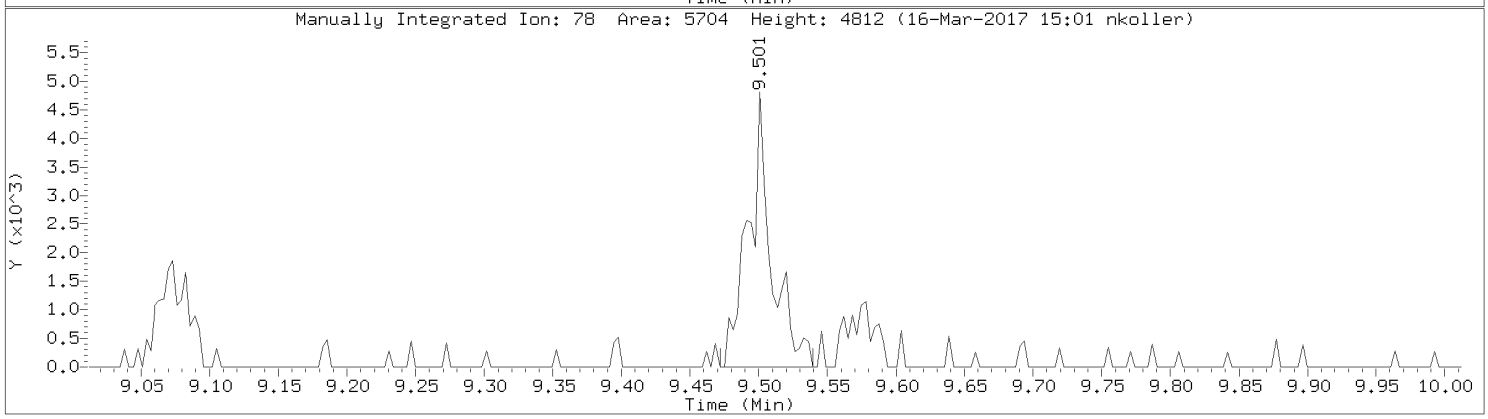
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Styrene
CAS Number: 100-42-5

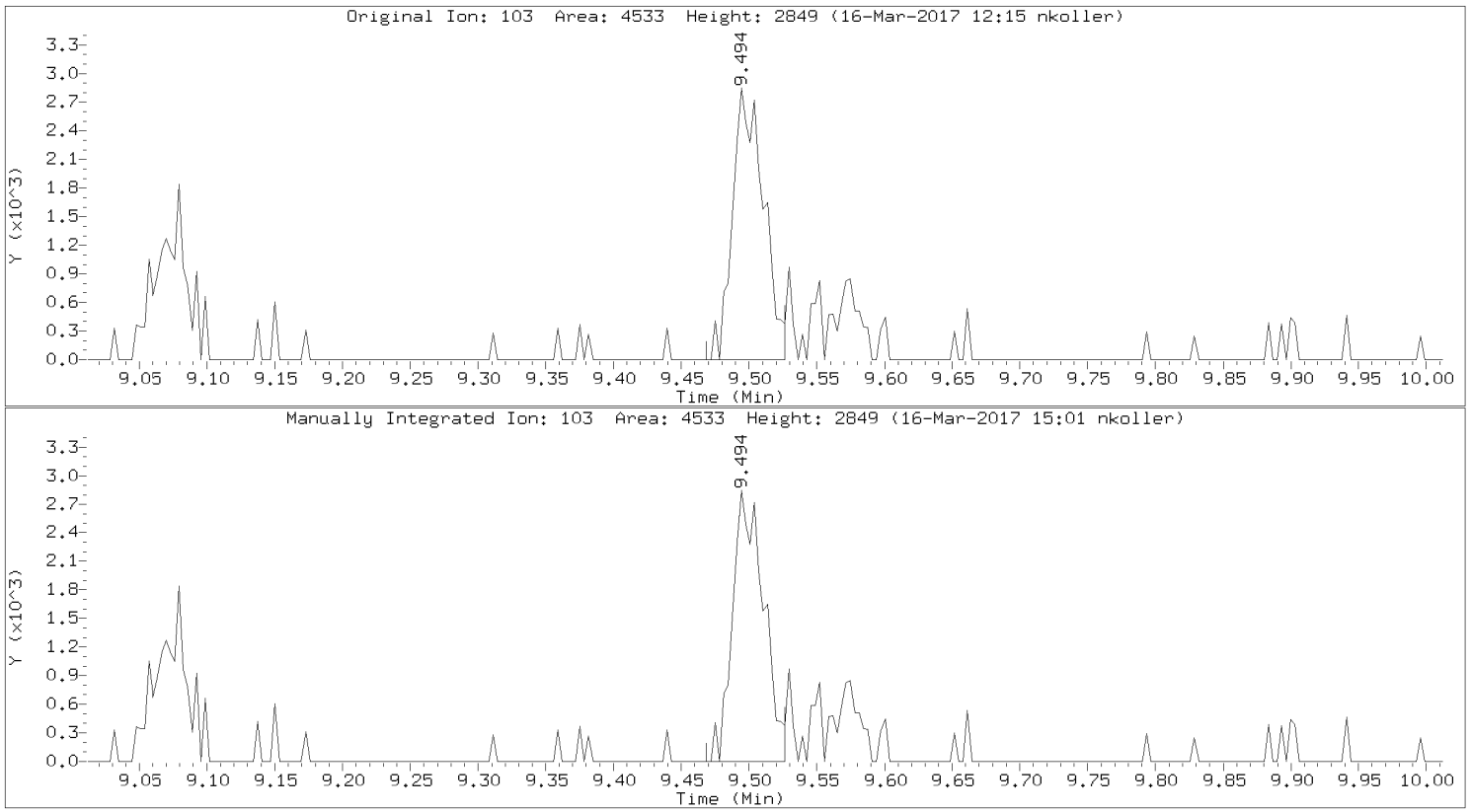






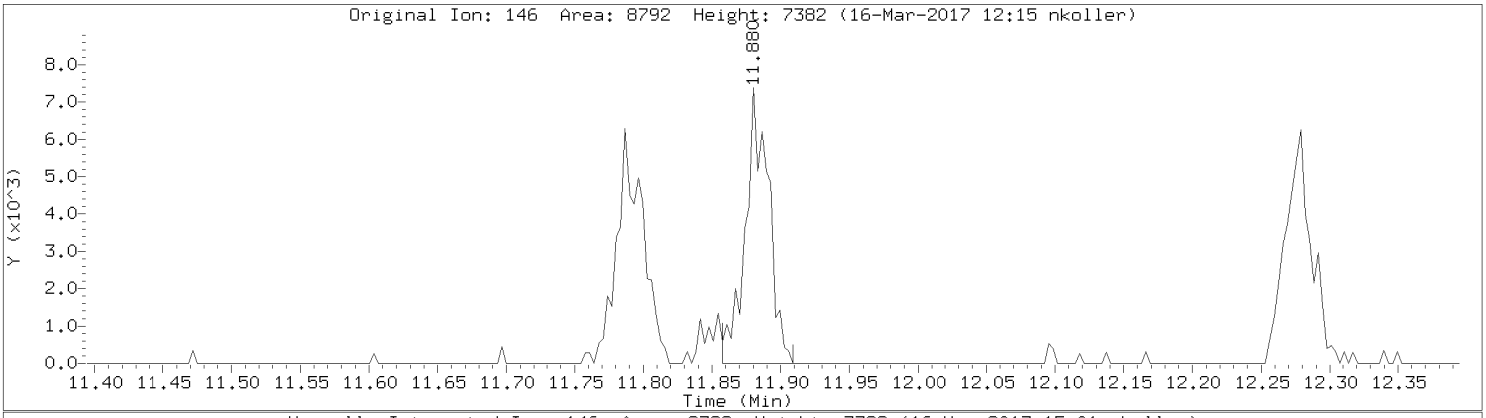


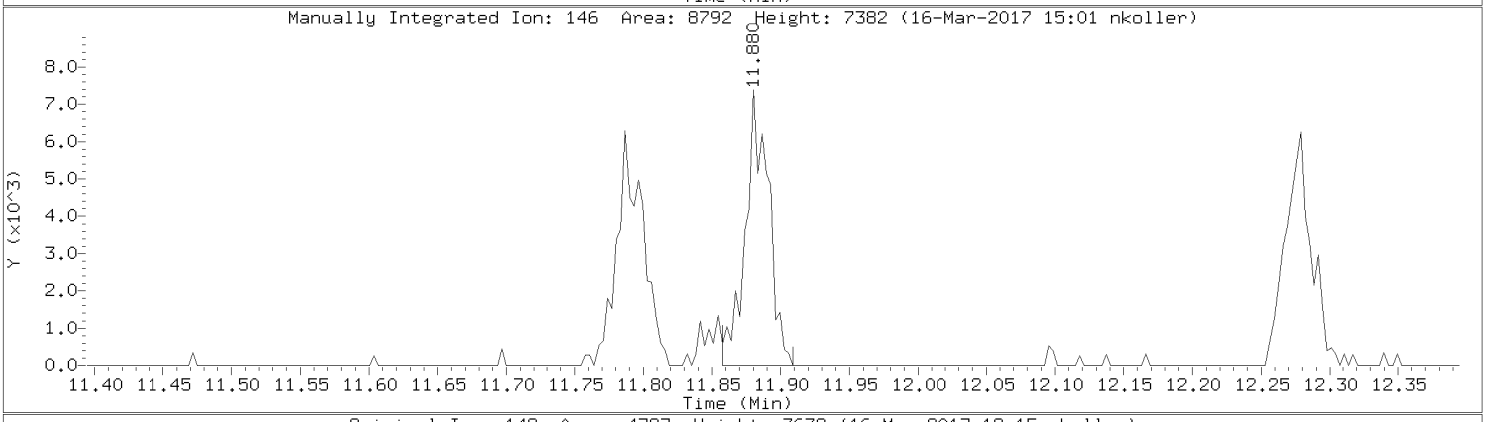
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: call

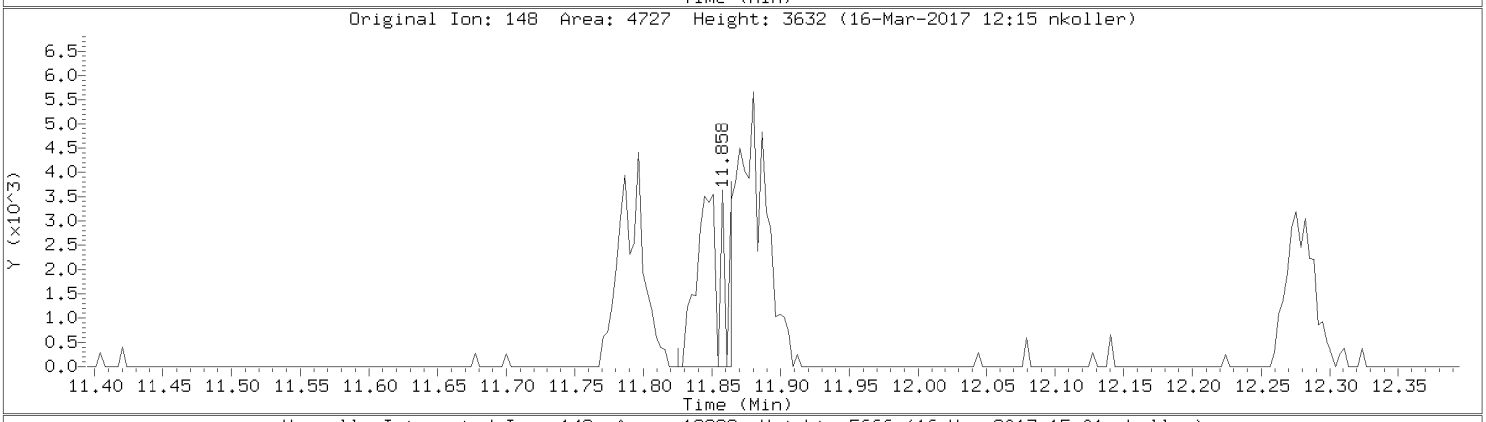


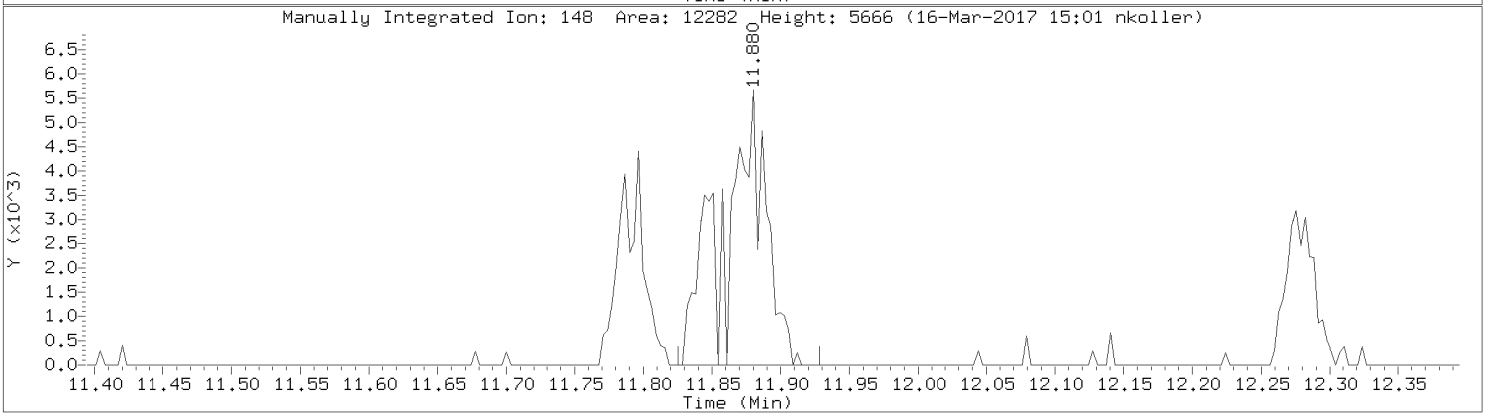
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

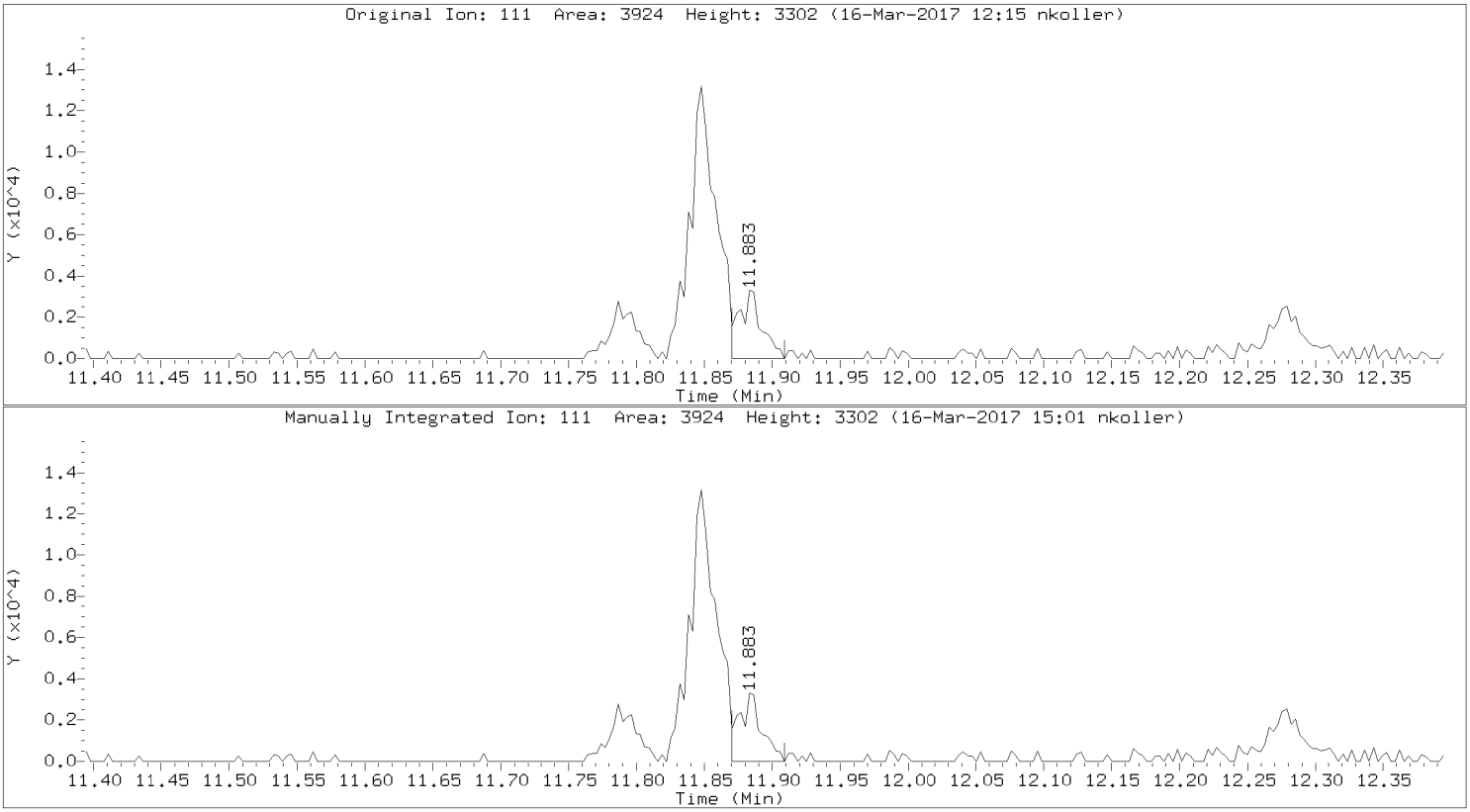






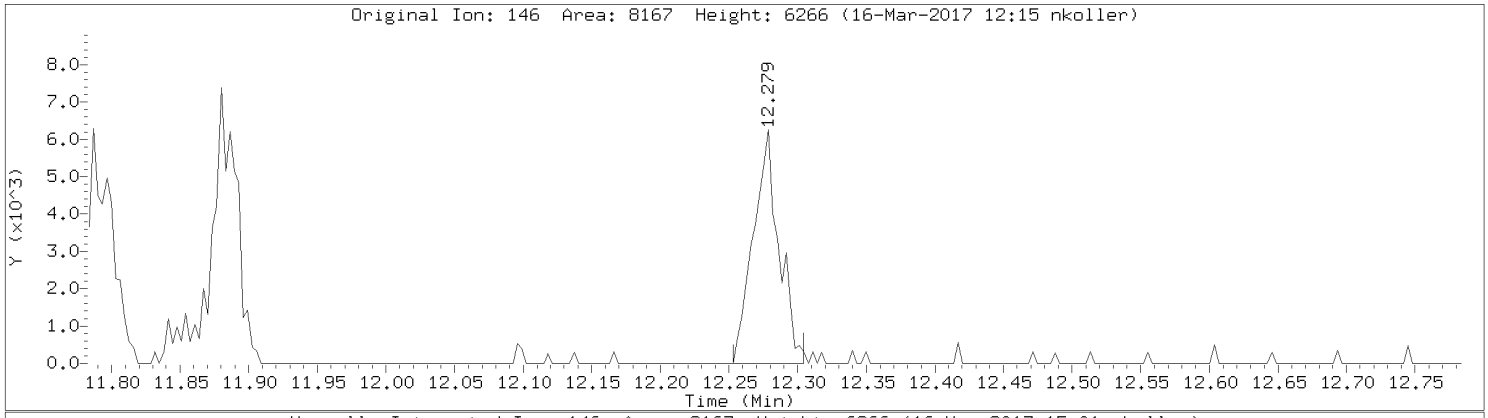


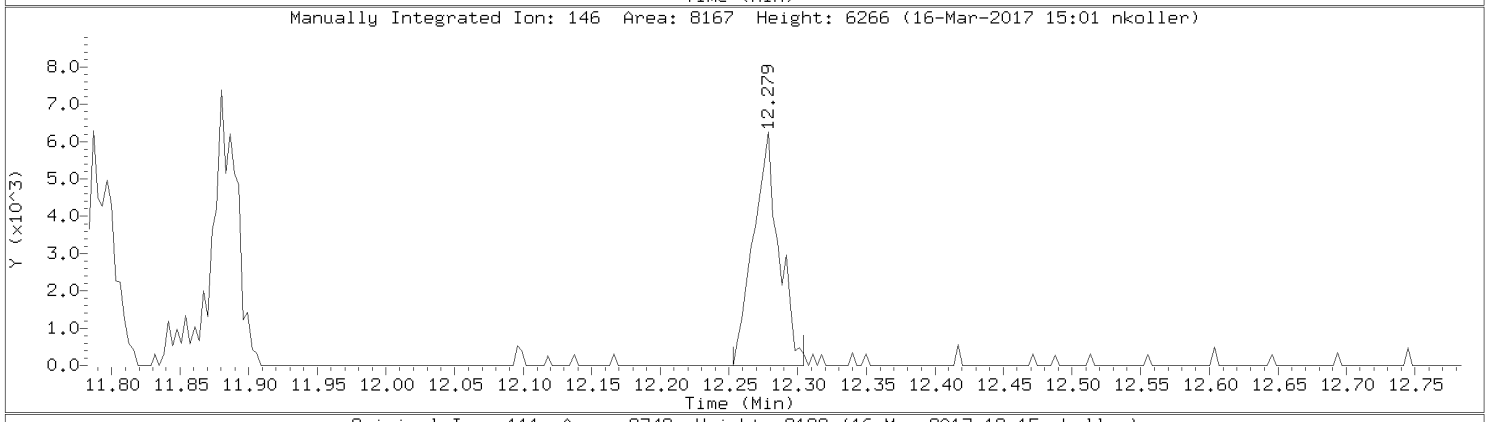
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: call

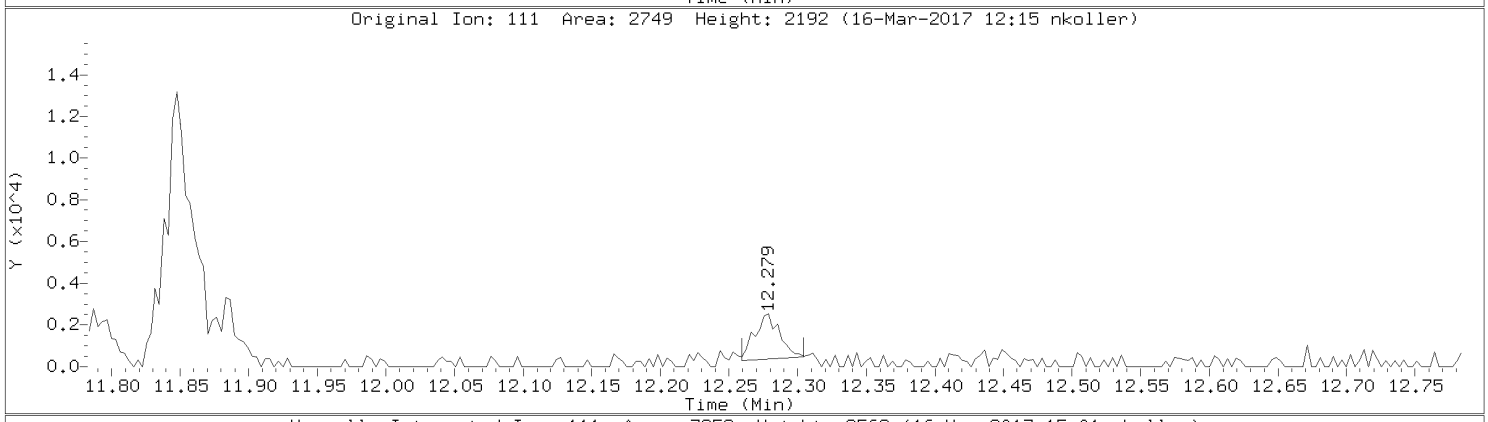


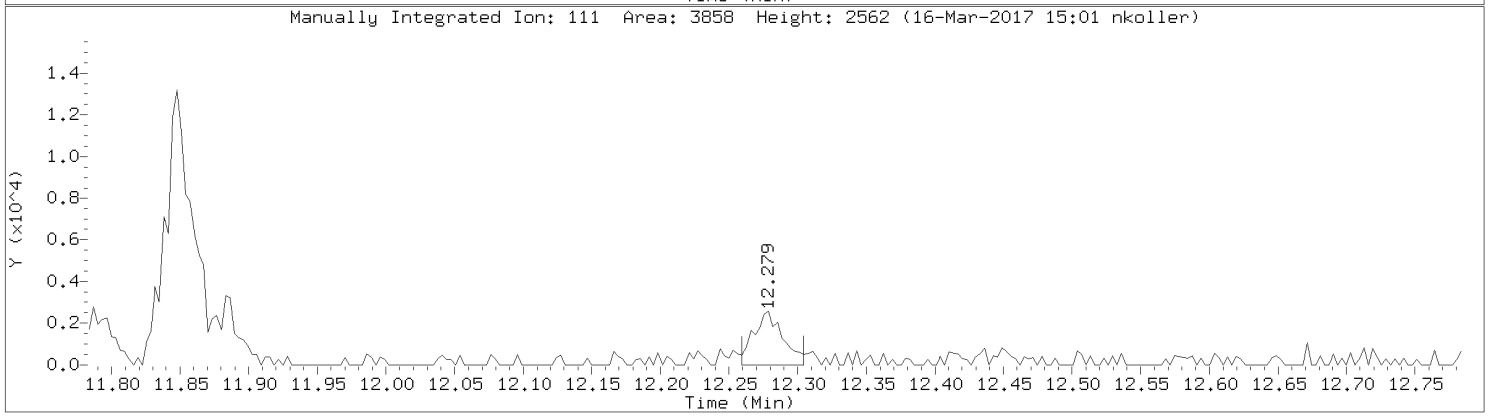
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,2-Dichlorobenzene
CAS Number: 95-50-1

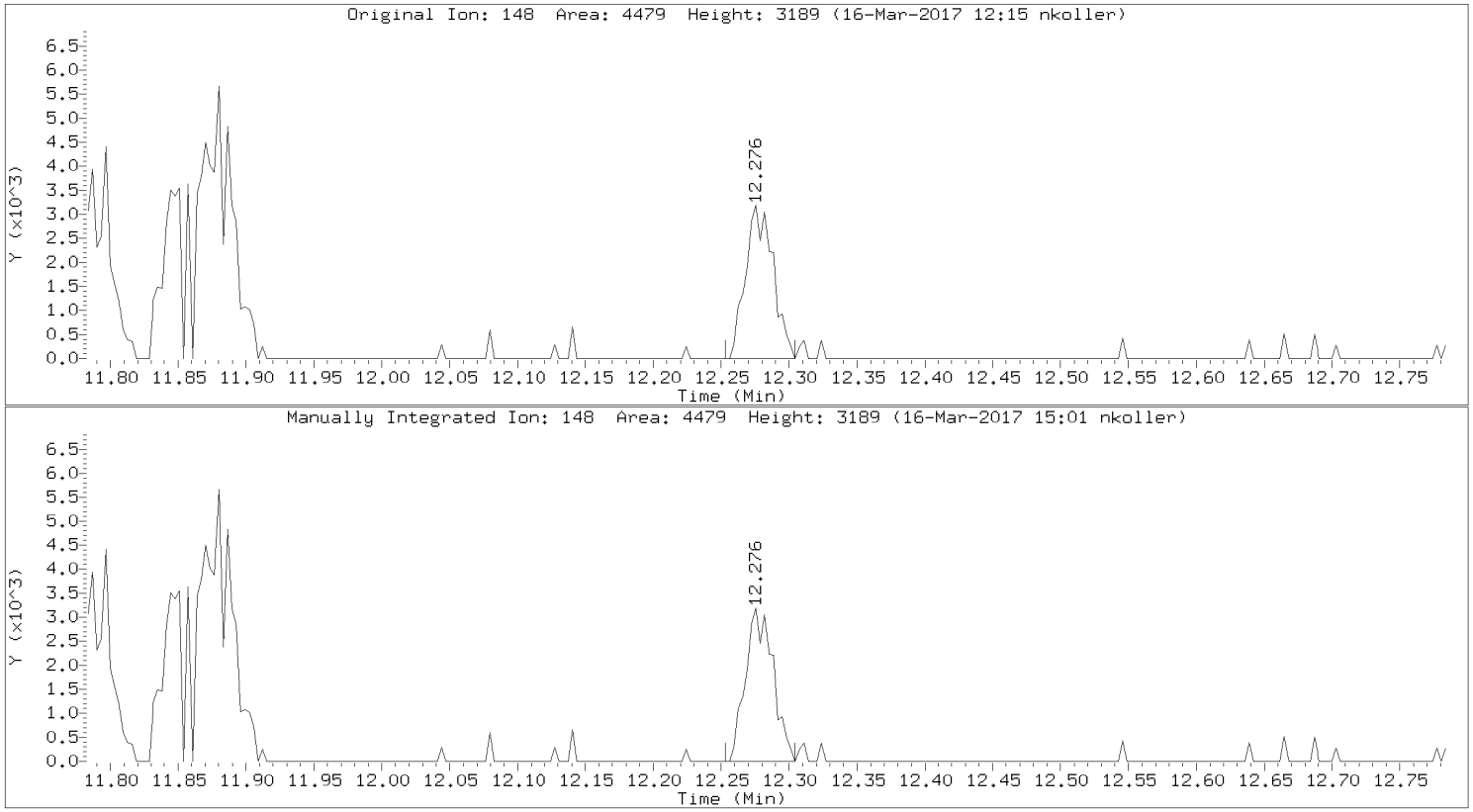






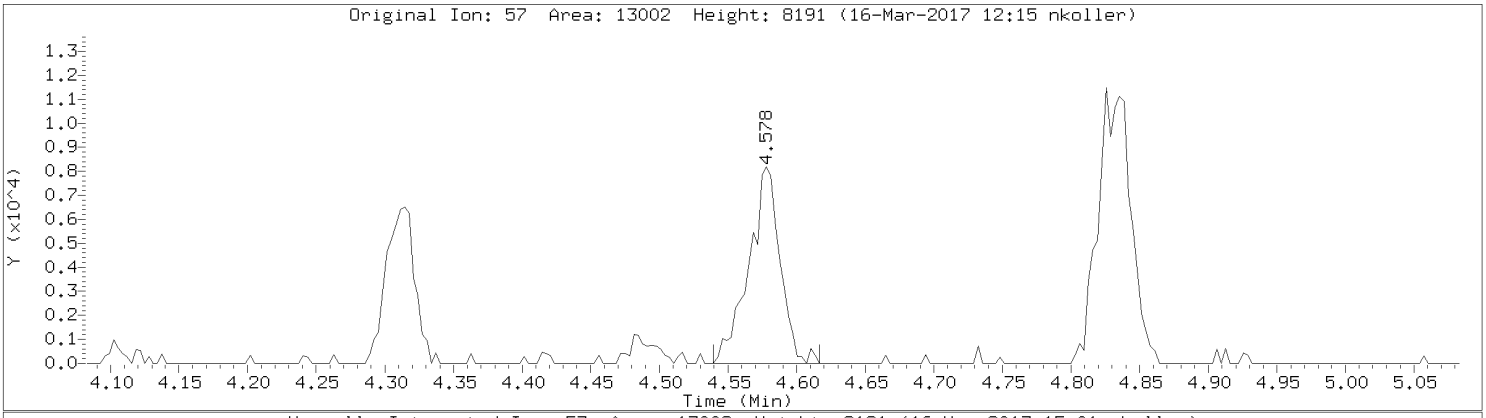


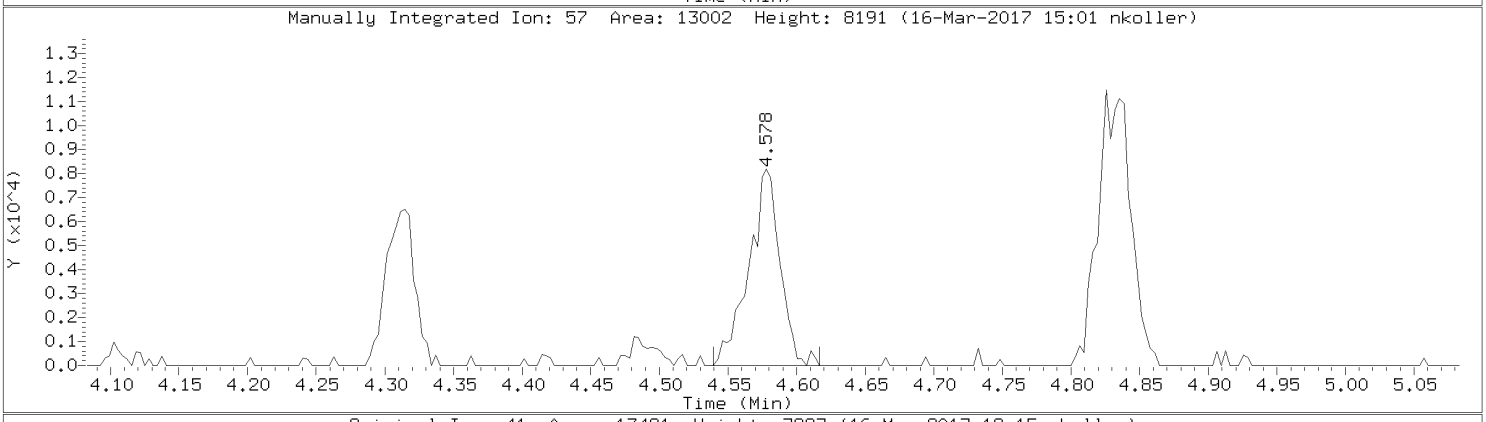
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: call

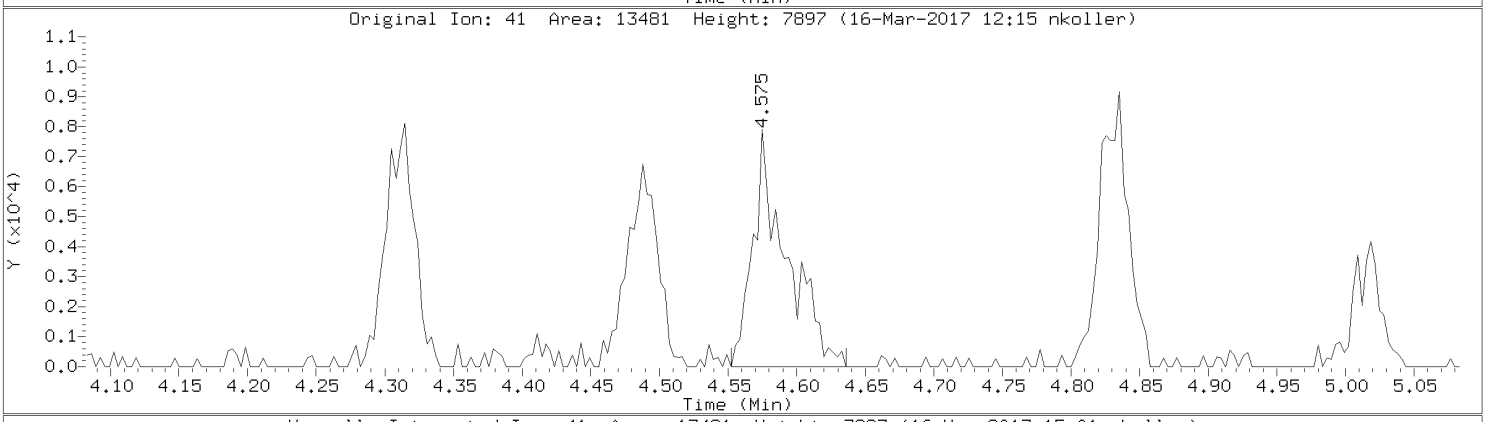


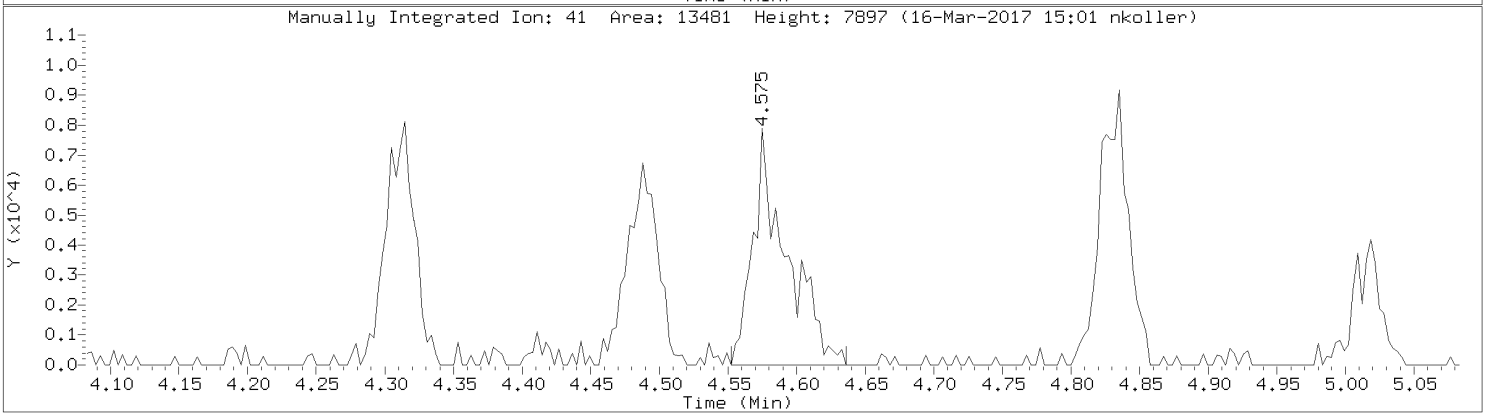
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: n-Hexane
CAS Number: 110-54-3

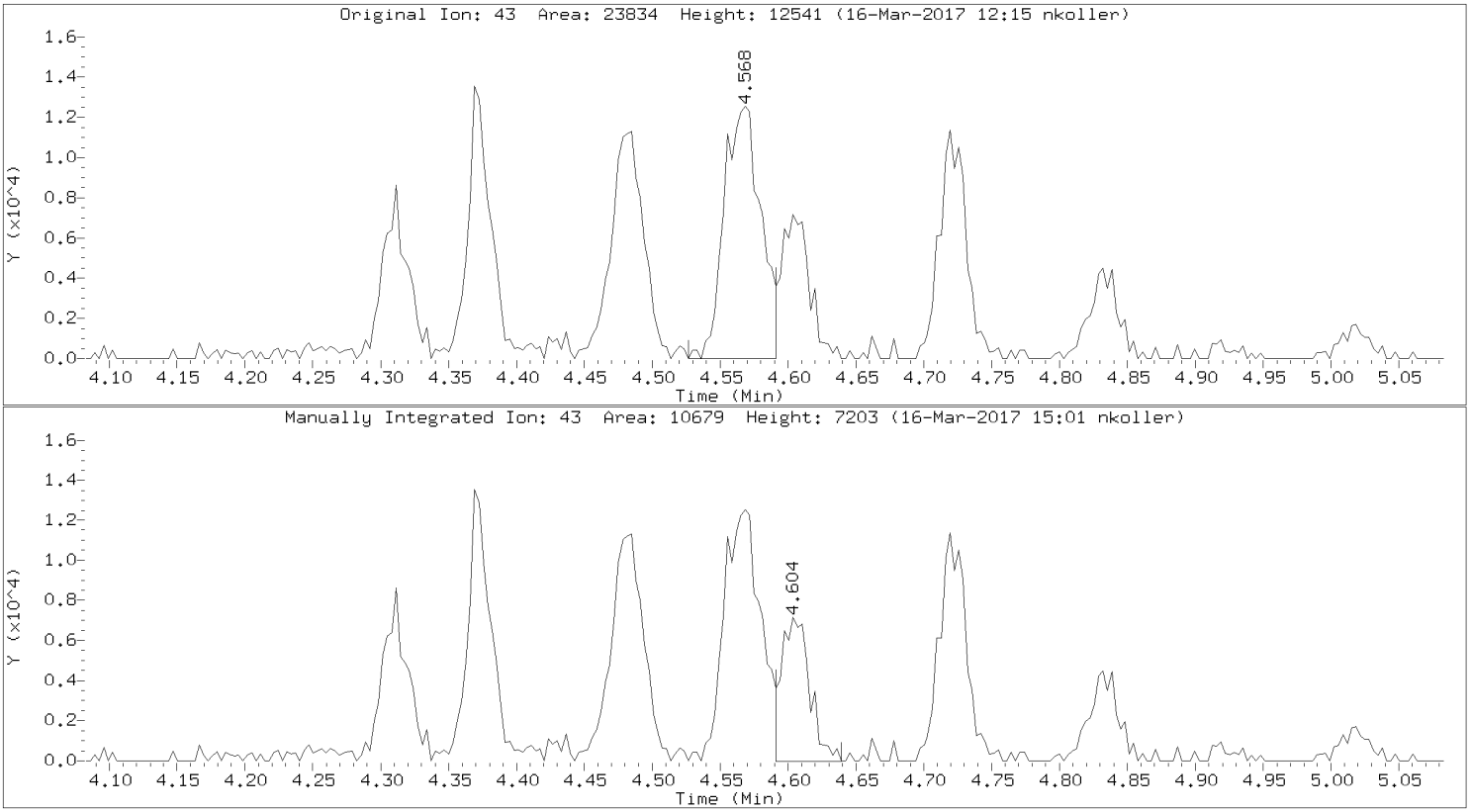






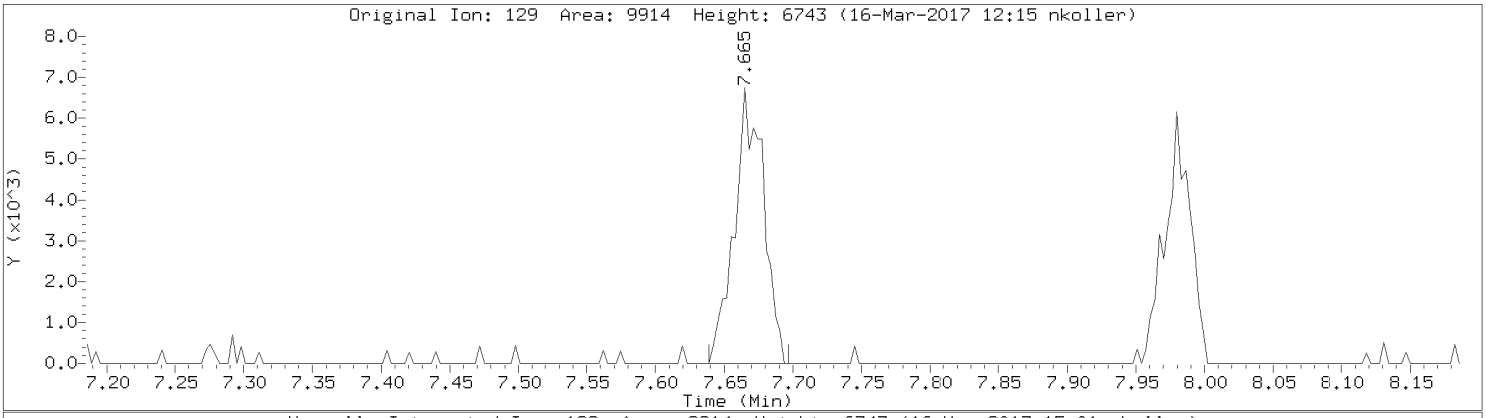


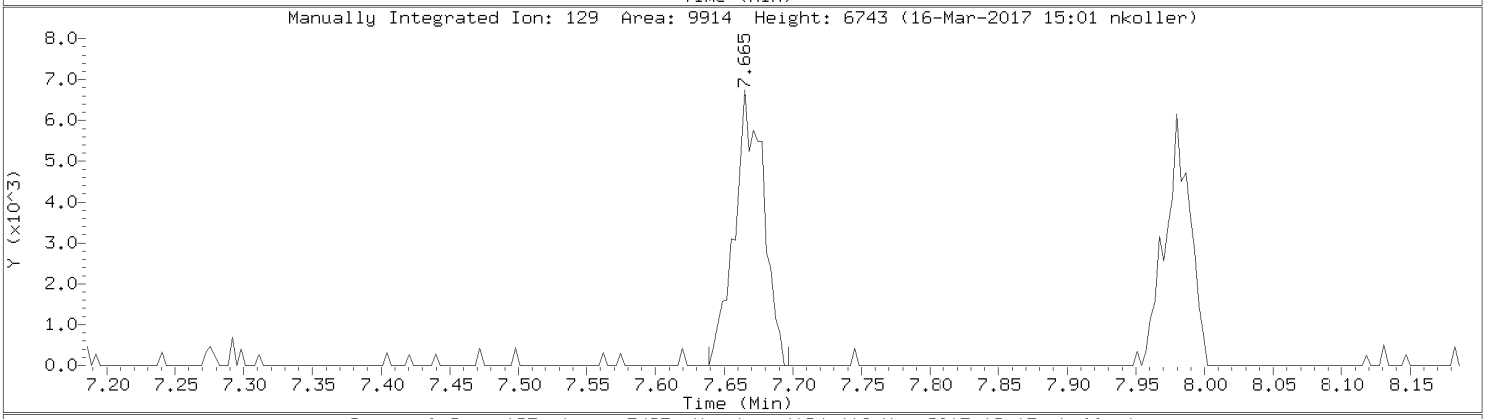
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: cal1

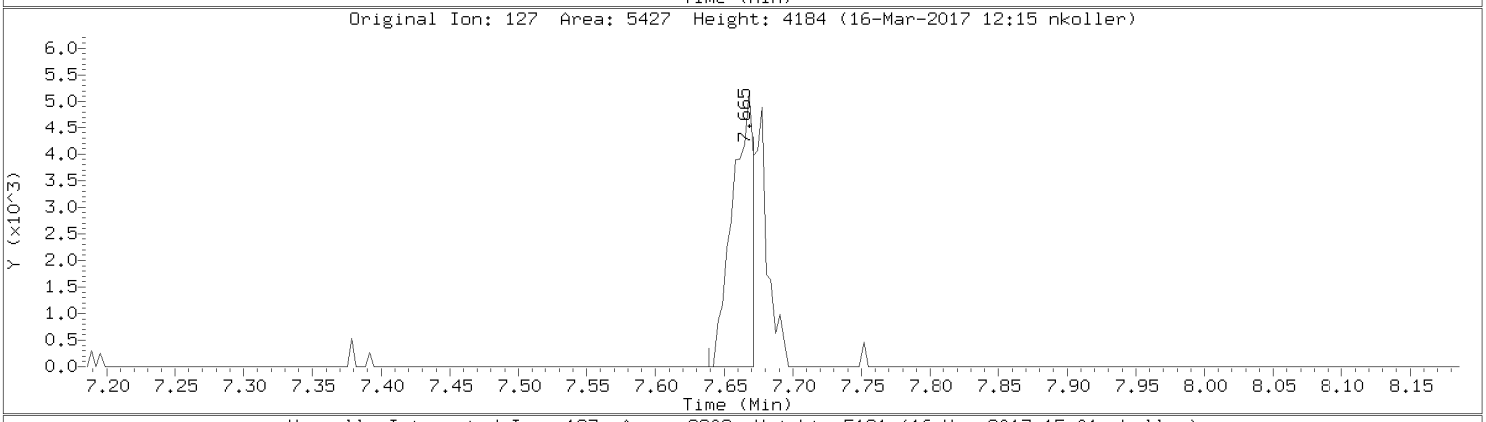


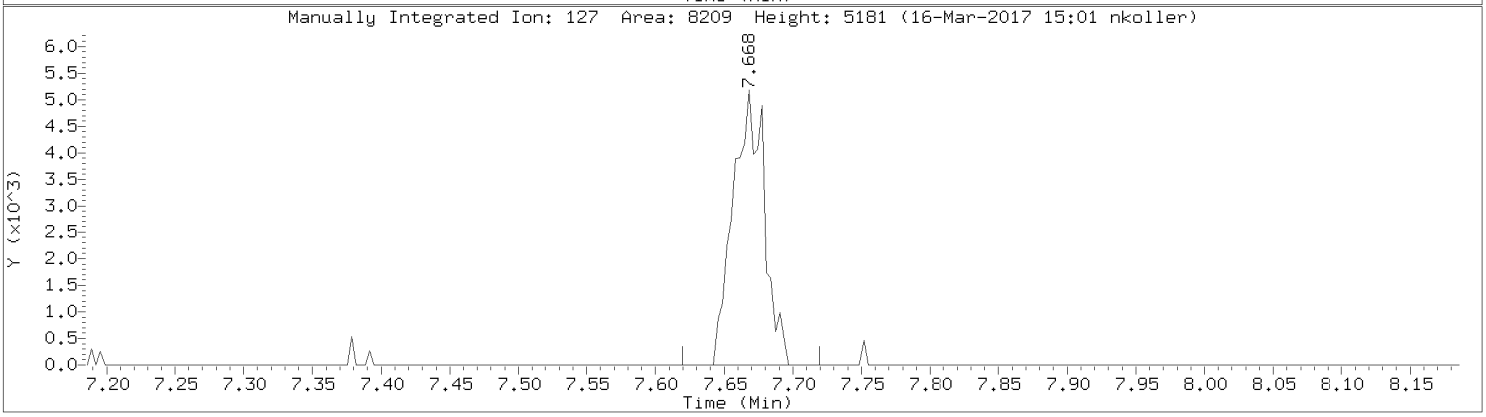
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Dibromochloromethane
CAS Number: 124-48-1



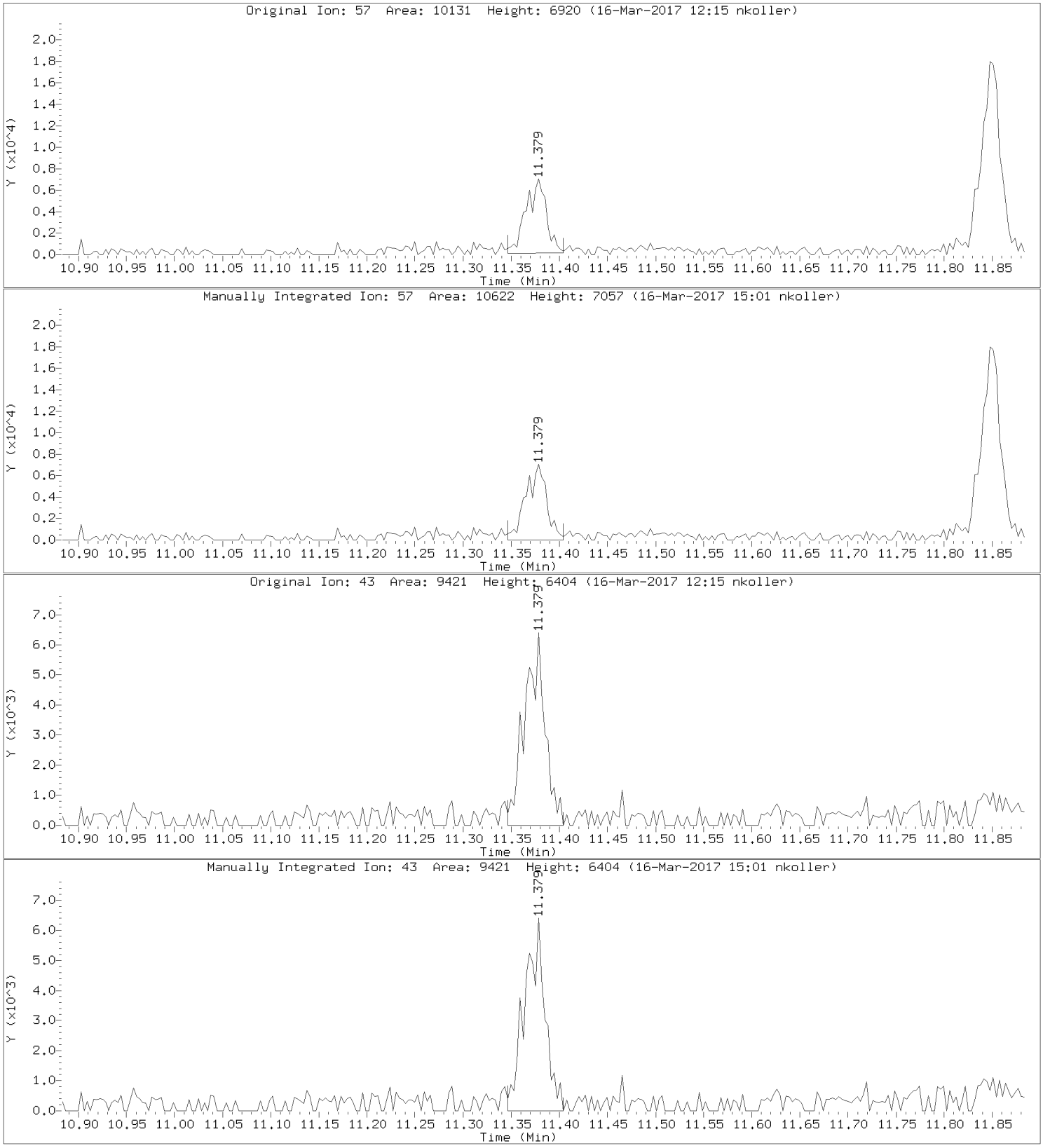




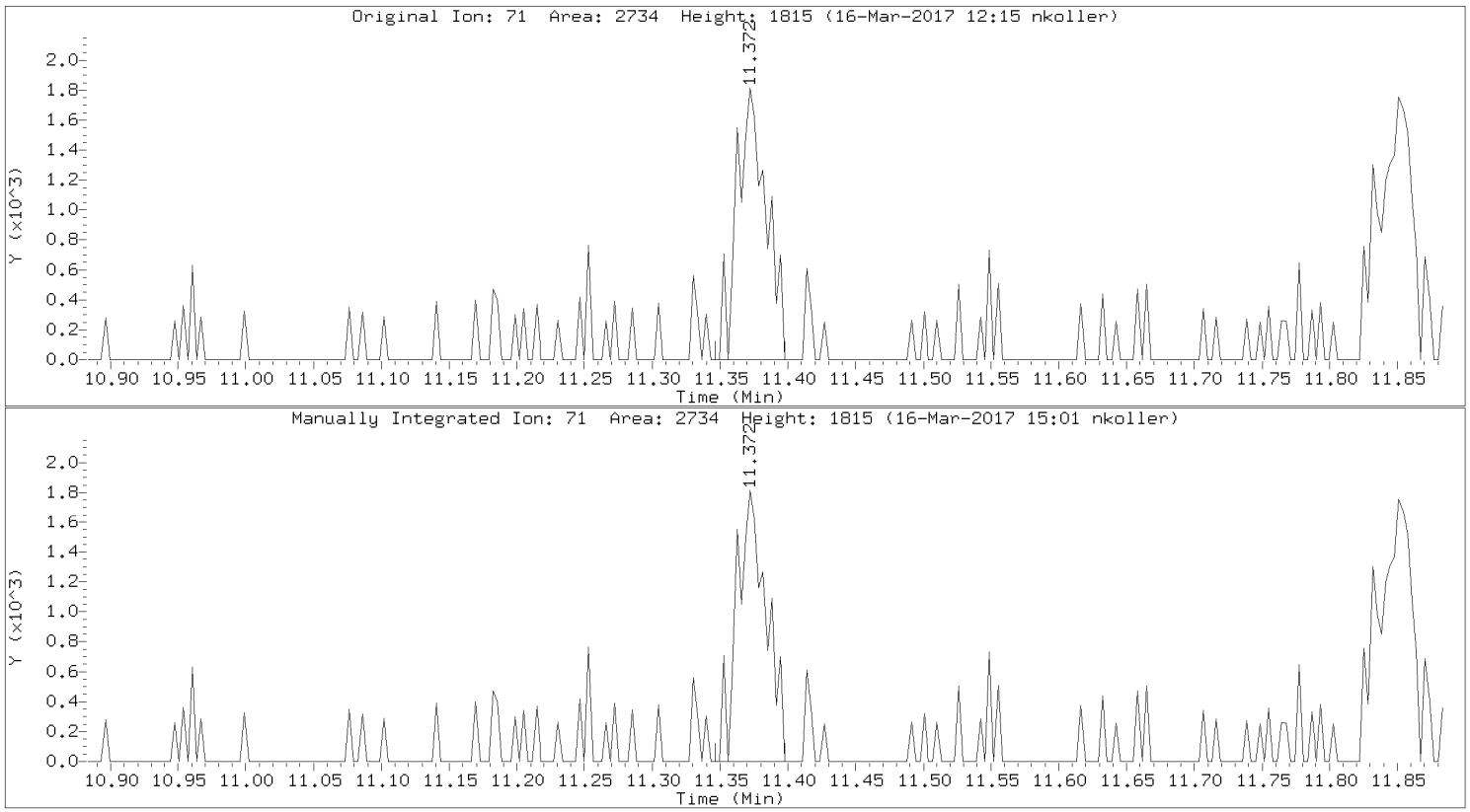


Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: n-Decane
CAS Number: 124-18-5



Data File: \\192.168.10.12\chem\10airB.i\031617.b/07502.D
Injection Date: 16-MAR-2017 09:16
Instrument: 10airB.i
Lab Sample ID: cal1



Data File: \\192.168.10.12\chem\10airB.i\031617.b\07503.D
Report Date: 20-Mar-2017 12:25

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\031617.b\07503.D
Lab Smp Id: cal2
Inj Date : 16-MAR-2017 09:44
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Meth Date : 20-Mar-2017 12:18 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.957	2.915	(0.528)	14527	0.20000	0.380
2	1,1-Difluoroethane	65	3.025	3.005	(0.540)	12187	0.20000	0.120(Q)
3	Chlorodifluoromethane	67	3.047	3.005	(0.544)	4081	0.20000	0.215(QM)
4	Propylene	41	3.044	2.999	(0.544)	14971	0.20000	0.239
5	Dichlorodifluoromethane	85	3.070	3.041	(0.548)	53358	0.20000	0.0381(a)
6	Chloromethane	50	3.160	3.144	(0.564)	21562	0.20000	0.231
7	Dichlorotetrafluoroethane	85	3.166	3.160	(0.565)	42753	0.20000	0.236
8	Vinyl chloride	62	3.240	3.224	(0.579)	15820	0.20000	0.221
9	1,3-Butadiene	54	3.275	3.272	(0.585)	13053	0.20000	0.225
10	Bromomethane	94	3.414	3.410	(0.610)	11468	0.20000	0.230
11	Chloroethane	64	3.465	3.465	(0.619)	6082	0.20000	0.207
12	Ethanol	45	3.552	3.552	(0.634)	27872	1.00000	1.15
13	Vinyl Bromide	106	3.574	3.581	(0.638)	10744	0.20000	0.224
14	Isopentane	43	3.590	3.600	(0.641)	19196	0.20000	0.0320(a)
15	Freon 123	83	3.597	3.607	(0.642)	25637	0.20000	0.242
16	Trichlorofluoromethane	101	3.664	3.674	(0.654)	30543	0.20000	0.234
17	Acrolein	56	3.681	3.690	(0.657)	12815	0.50000	0.583
18	Acetone	43	3.722	3.729	(0.665)	127733	1.00000	1.22
19	Isopropyl Alcohol	45	3.767	3.777	(0.673)	120209	1.00000	1.00(M)
20	1,1-Dichloroethene	61	3.899	3.912	(0.696)	20237	0.20000	0.214
21	Acrylonitrile	53	3.909	3.934	(0.698)	26906	0.50000	0.547
22	Freon 113	101	3.938	3.951	(0.703)	23888	0.20000	0.240
23	Methyl Acetate	43	3.954	3.967	(0.706)	38005	0.20000	0.240

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07503.D
Report Date: 20-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.963	3.967	(0.708)	70728	0.50000	0.599(Q)
	25 Methylene chloride	49	3.986	4.005	(0.712)	101988	1.00000	1.19(H)
	26 Allyl Chloride	76	4.002	4.021	(0.715)	10855	0.50000	0.597(Q)
	27 Carbon Disulfide	76	4.111	4.127	(0.734)	22061	0.20000	0.207
	28 trans-1,2-dichloroethene	96	4.253	4.282	(0.759)	9793	0.20000	0.213
	29 Methyl Tert Butyl Ether	73	4.307	4.307	(0.769)	66549	0.50000	0.562
	30 Vinyl Acetate	43	4.375	4.398	(0.781)	33527	0.20000	0.214
	31 1,1-Dichloroethane	63	4.388	4.417	(0.784)	22397	0.20000	0.225
$	32 Hexane-d14(S)	66	4.484	4.491	(0.801)	2289121	10.0000	10.3
	33 Methyl Ethyl Ketone	72	4.561	4.561	(0.815)	5800	0.20000	0.241(QM)
	34 n-Hexane	57	4.587	4.584	(0.819)	24398	0.20000	0.220(Q)
	35 Di-isopropyl Ether	45	4.603	4.610	(0.822)	49730	0.20000	0.216
	36 Ethyl Acetate	43	4.722	4.722	(0.843)	31412	0.20000	0.201
	37 cis-1,2-Dichloroethene	96	4.703	4.732	(0.840)	11600	0.20000	0.206(Q)
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.863)	119123	0.50000	0.570
	39 Chloroform	83	4.812	4.851	(0.859)	25261	0.20000	0.214
	40 Tetrahydrofuran	42	5.008	4.996	(0.894)	16336	0.20000	0.197
	41 1,1,1-Trichloroethane	97	5.217	5.237	(0.932)	29253	0.20000	0.211
	42 1,2-Dichloroethane	62	5.221	5.246	(0.932)	25163	0.20000	0.220
	43 Benzene	78	5.452	5.471	(0.974)	41767	0.20000	0.224
	44 Carbon tetrachloride	117	5.471	5.491	(0.977)	26394	0.20000	0.203
	45 Cyclohexane	56	5.481	5.494	(0.979)	26180	0.20000	0.233
	46 Tert Amyl Methyl Ether	73	5.603	5.610	(1.001)	96697	0.20000	0.140(Q)
*	47 1,4-Difluorobenzene	114	5.600	5.619	(1.000)	6463265	10.0000	
	48 2,2,4-Trimethylpentane	57	5.758	5.777	(1.028)	211301	0.50000	0.605
	49 Heptane	43	5.880	5.896	(1.050)	27491	0.20000	0.209
	50 1,2-Dichloropropane	63	5.957	5.973	(1.064)	16235	0.20000	0.214
	51 Trichloroethene	130	5.970	5.992	(1.066)	18979	0.20000	0.218
	52 Methyl methacrylate	69	6.044	6.050	(1.079)	11928	0.20000	0.197
	53 1,4-Dioxane	88	6.098	6.073	(1.089)	8188	0.20000	0.198
	54 Bromodichloromethane	83	6.069	6.092	(1.084)	27672	0.20000	0.210
	55 Methylcyclohexane	98	6.423	6.439	(1.147)	10551	0.20000	0.212
	56 Methyl Isobutyl Ketone	43	6.539	6.536	(1.168)	87277	0.50000	0.505
	57 cis-1,3-Dichloropropene	75	6.574	6.590	(1.174)	17863	0.20000	0.187
	58 trans-1,3-Dichloropropene	75	6.976	6.989	(1.246)	13209	0.20000	0.226
$	59 Toluene-d8 (S)	98	7.069	7.082	(1.262)	5883861	10.0000	9.89
	60 1,1,2-Trichloroethane	97	7.134	7.150	(1.274)	16173	0.20000	0.217
	61 Toluene	91	7.143	7.159	(1.276)	45778	0.20000	0.212
	62 Methyl Butyl Ketone	43	7.385	7.378	(0.855)	68380	0.50000	0.640
	63 n-Octane	43	7.574	7.587	(0.877)	31846	0.20000	0.192
	64 Dibromochloromethane	129	7.664	7.687	(0.887)	20886	0.20000	0.174
	65 1,2-Dibromoethane	107	7.899	7.912	(0.914)	22097	0.20000	0.191
	66 Tetrachloroethene	166	7.976	7.989	(0.923)	20534	0.20000	0.201
*	67 Chlorobenzene - d5	117	8.639	8.648	(1.000)	4511117	10.0000	
	68 Chlorobenzene	112	8.680	8.690	(1.005)	32838	0.20000	0.200
	69 Ethyl Benzene	91	8.928	8.941	(1.033)	48898	0.20000	0.187
	70 m&p-Xylene	91	9.076	9.089	(1.051)	76470	0.40000	0.474
	71 n-Nonane	43	9.471	9.471	(1.096)	27166	0.20000	0.195
	72 Bromoform	173	9.471	9.484	(1.096)	11527	0.20000	0.287
	73 Styrene	104	9.500	9.513	(1.100)	22989	0.20000	0.254
	74 o-Xylene	91	9.577	9.584	(1.109)	38998	0.20000	0.194
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.831	(1.138)	21473	0.20000	0.256
	76 Isopropylbenzene	105	10.156	10.166	(1.176)	53988	0.20000	0.202
	77 N-Propylbenzene	91	10.735	10.741	(1.243)	45205	0.20000	0.261

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07503.D
Report Date: 20-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.915	(1.263)	35375	0.20000	0.267
79	1,3,5-Trimethylbenzene	105	10.995	11.005	(1.273)	33073	0.20000	0.263
80	n-Decane	57	11.372	11.384	(2.031)	20111	0.20000	0.155
81	Tert-Butyl Benzene	119	11.494	11.500	(1.330)	35349	0.20000	0.237
82	1,2,4-Trimethylbenzene	105	11.510	11.516	(1.332)	30258	0.20000	0.252
83	1,3-Dichlorobenzene	146	11.793	11.799	(1.365)	17279	0.20000	0.276
84	Sec- Butylbenzene	105	11.799	11.812	(1.366)	46846	0.20000	0.253
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.857	(1.371)	1991325	10.0000	9.15
86	Benzyl Chloride	91	11.863	11.870	(1.373)	13457	0.20000	0.330
87	1,4-Dichlorobenzene	146	11.886	11.896	(1.376)	17841	0.20000	0.267(Q)
88	p-Isopropyltoluene	119	11.986	11.992	(1.387)	35065	0.20000	(a)
89	1,2,3-Trimethylbenzene	105	12.034	12.040	(1.393)	29342	0.20000	0.270
90	1,2-Dichlorobenzene	146	12.275	12.285	(1.421)	15649	0.20000	0.175
91	N-Butylbenzene	91	12.461	12.465	(1.443)	24134	0.20000	0.284
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.494)	4849	0.20000	0.319(Q)
93	1,2,4-Trichlorobenzene	180	14.031	14.034	(1.624)	1879	0.20000	0.250
94	Naphthalene	128	14.153	14.166	(1.638)	8891	0.20000	0.489
95	Hexachlorobutadiene	225	14.394	14.413	(1.666)	12029	0.20000	0.212

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07503.D
Report Date: 20-Mar-2017 12:25

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07503.D
Lab Smp Id: cal2
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Misc Info:

Calibration Date: 16-MAR-2017
Calibration Time: 11:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

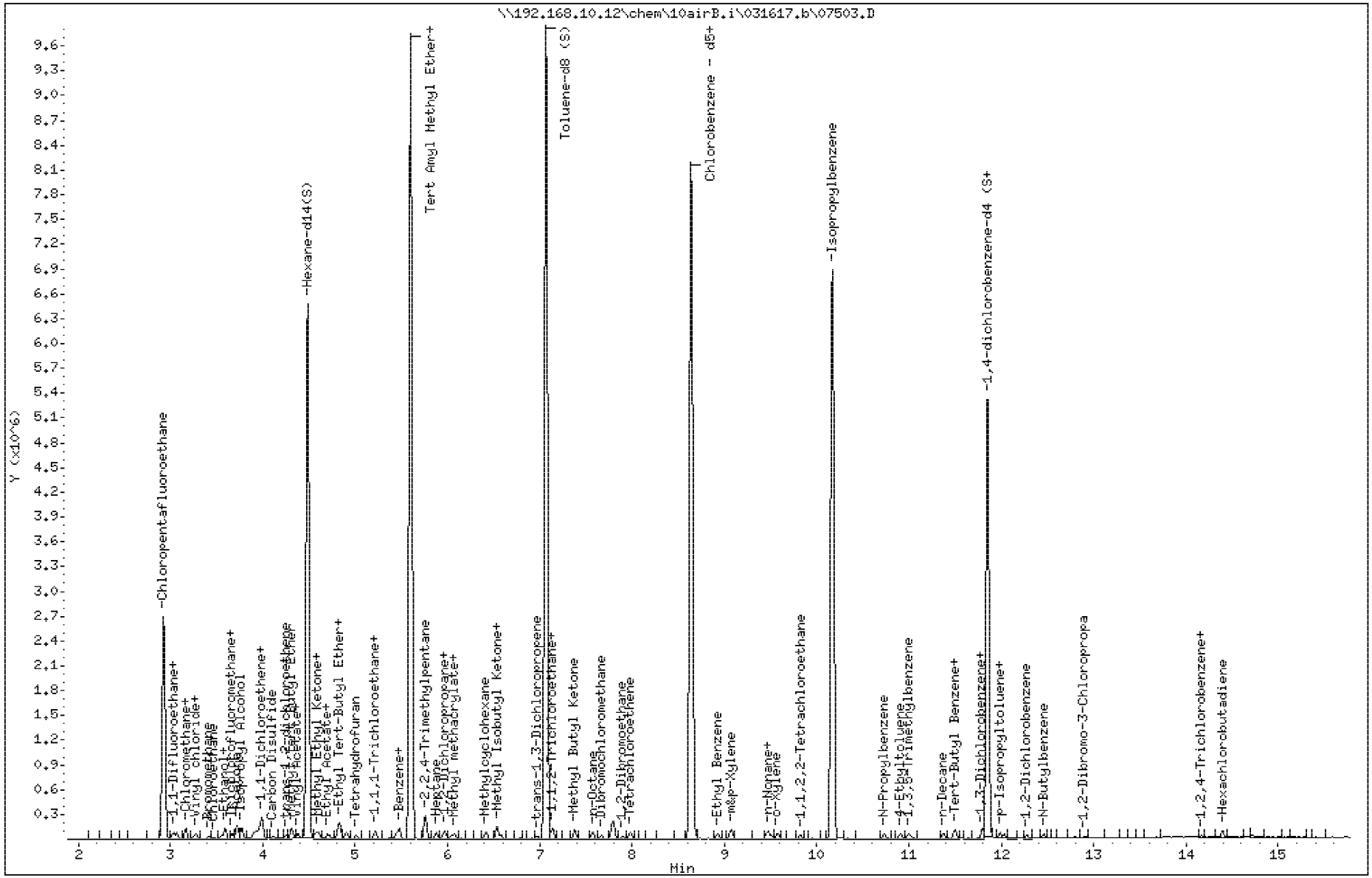
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6463265	-15.41
67 Chlorobenzene - d	5205948	3123569	7288327	4511117	-13.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.60	-0.28
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

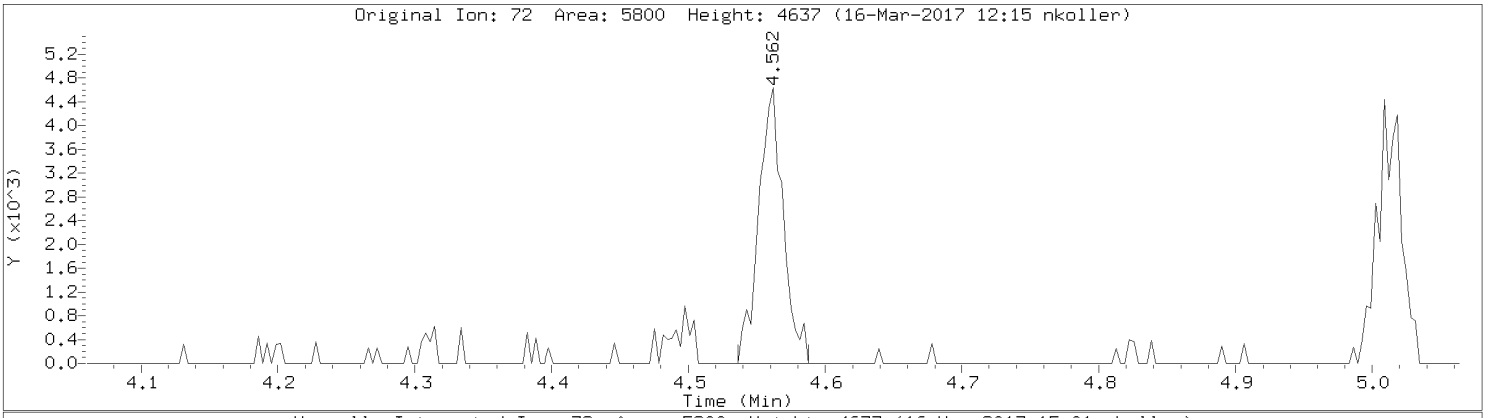
Data File: \\192.168.10.12\chem\10airB.i\031617.b\07503.D
Date : 16-MAR-2017 09:44
Client ID:
Sample Info:

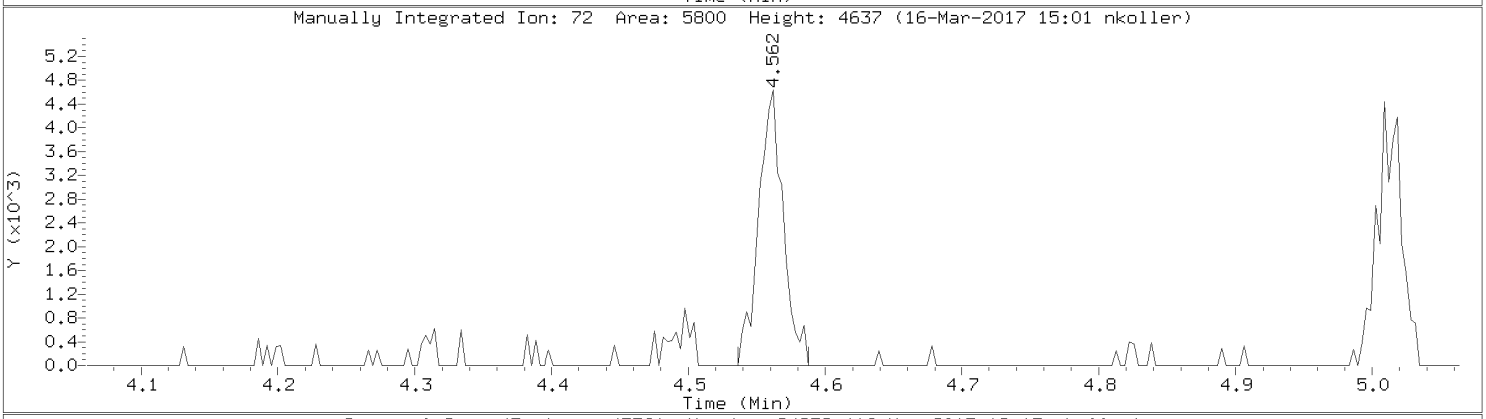
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

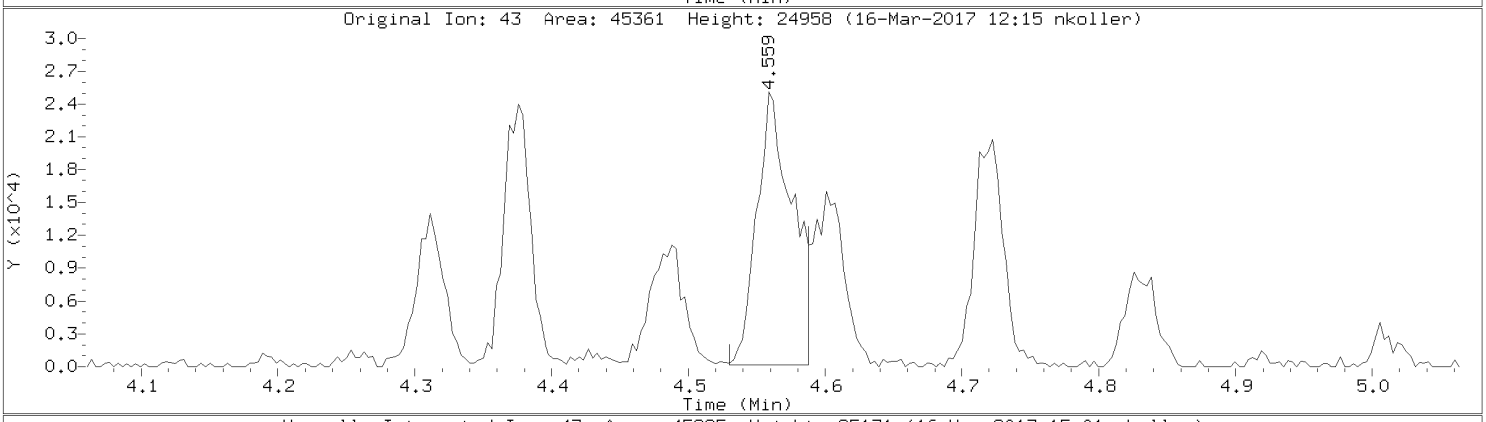


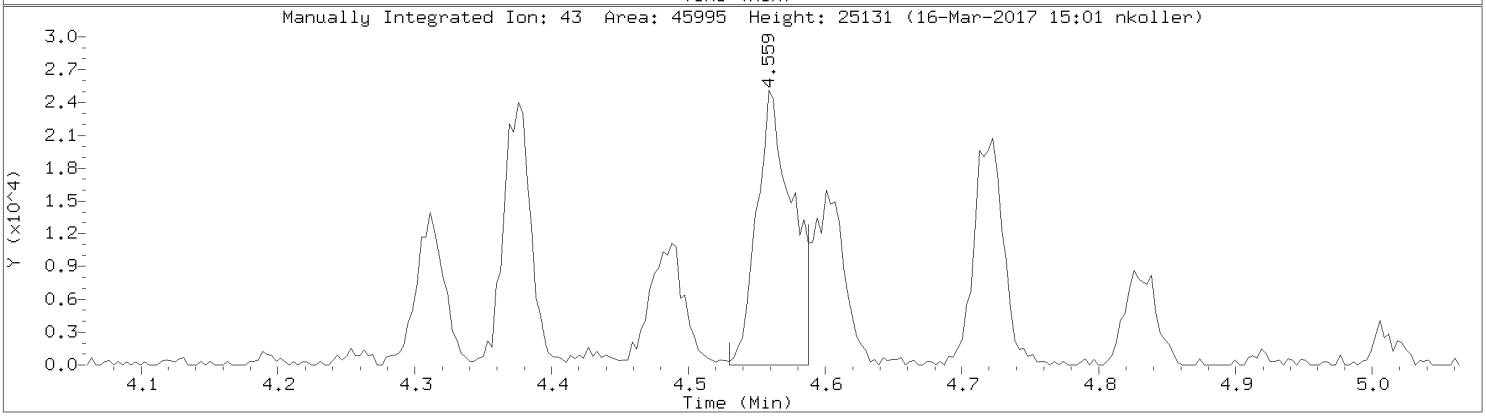
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07503.D
Injection Date: 16-MAR-2017 09:44
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



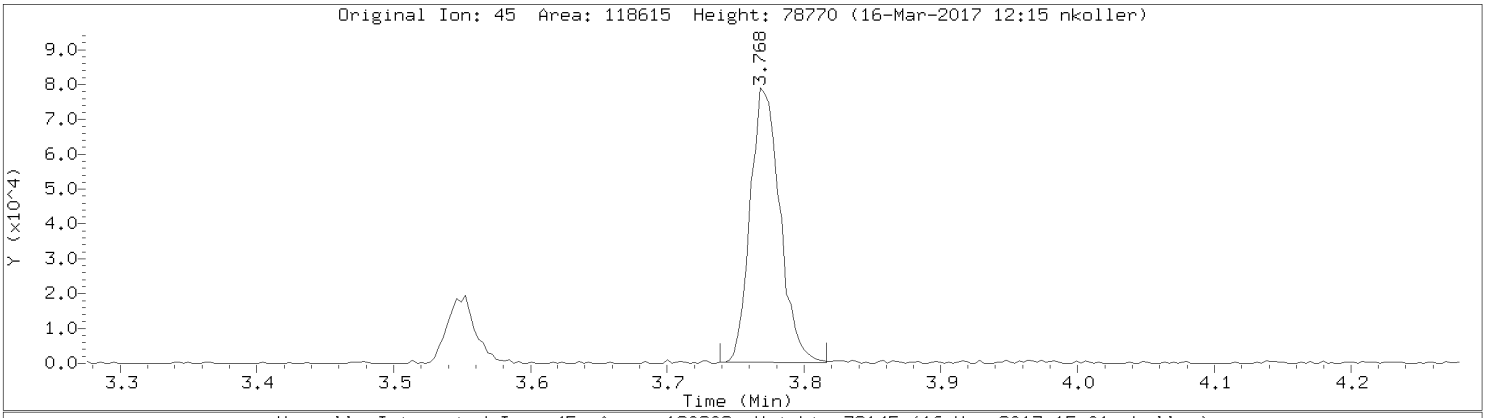


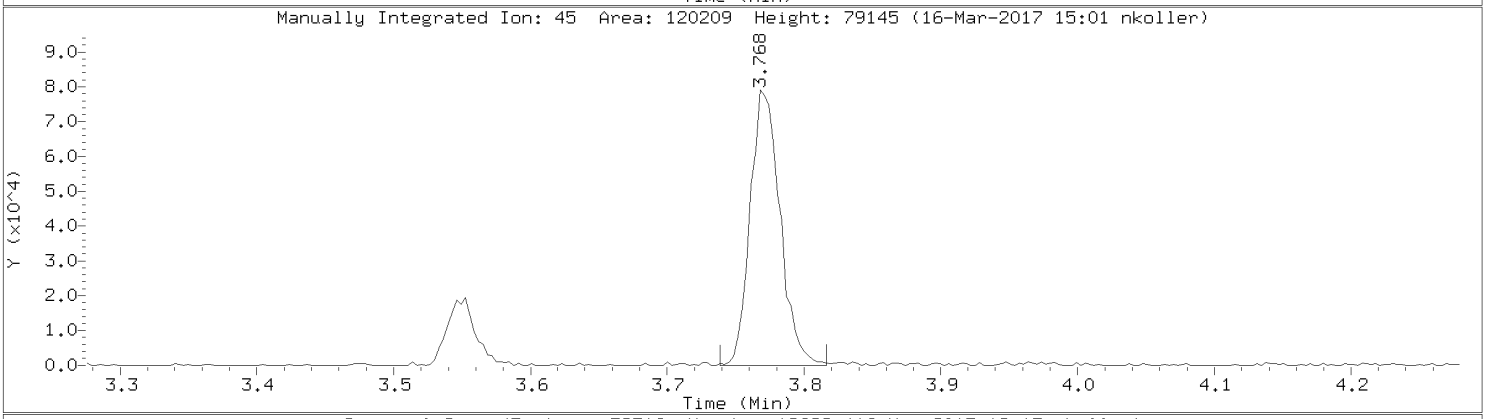


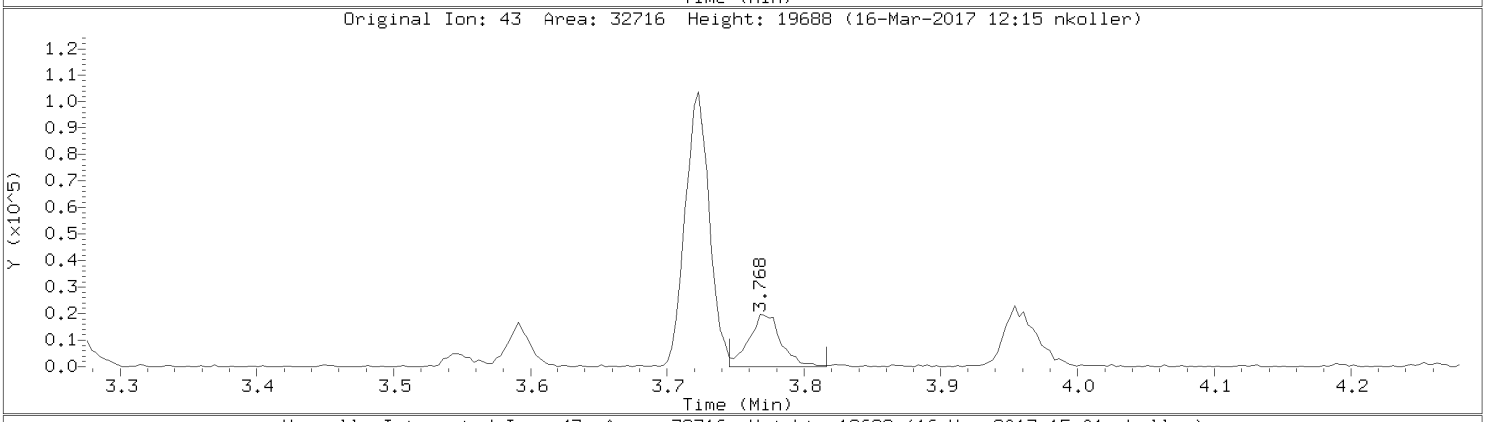


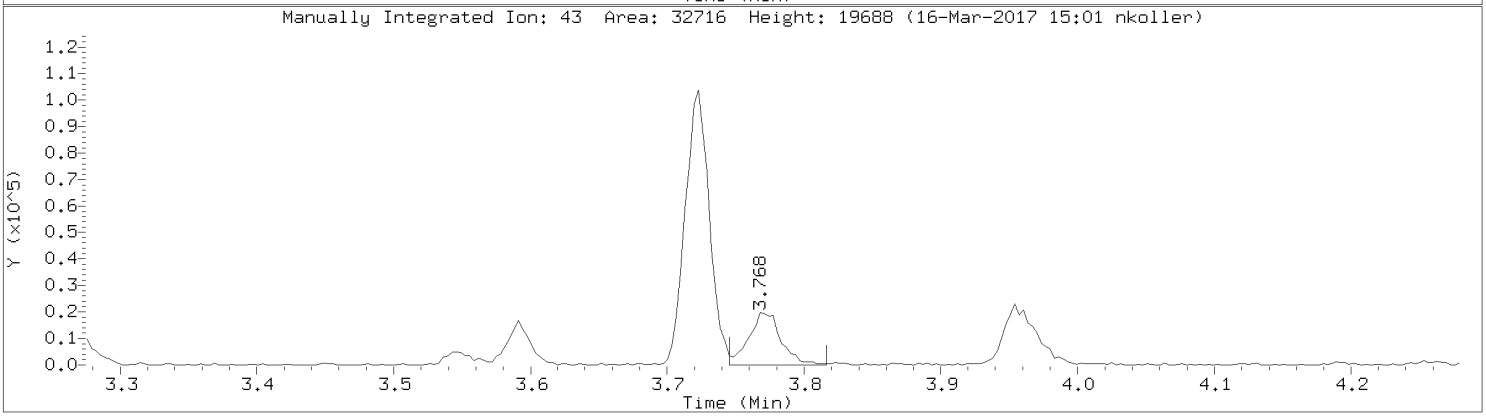
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07503.D
Injection Date: 16-MAR-2017 09:44
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



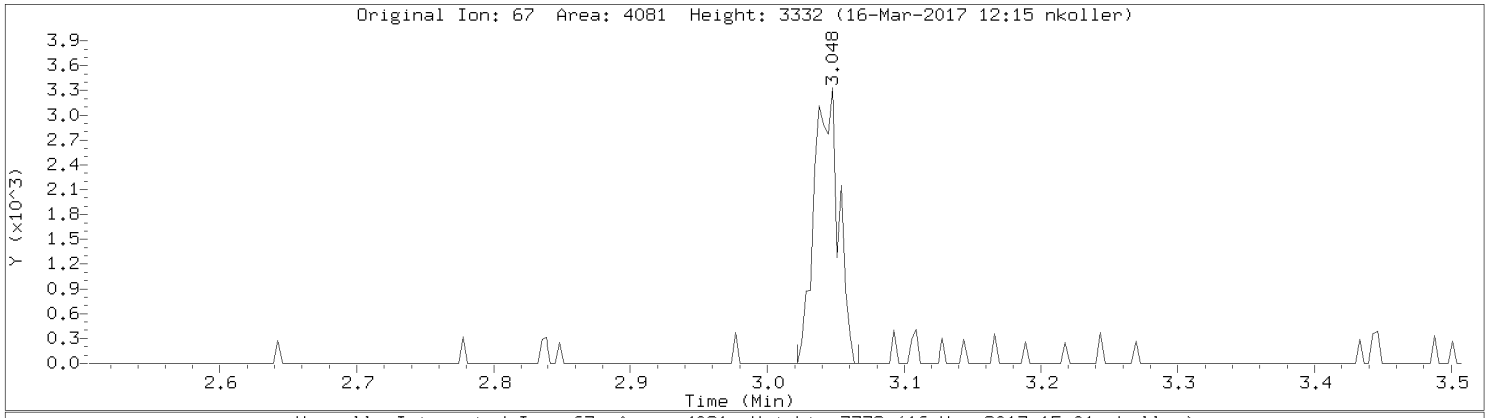


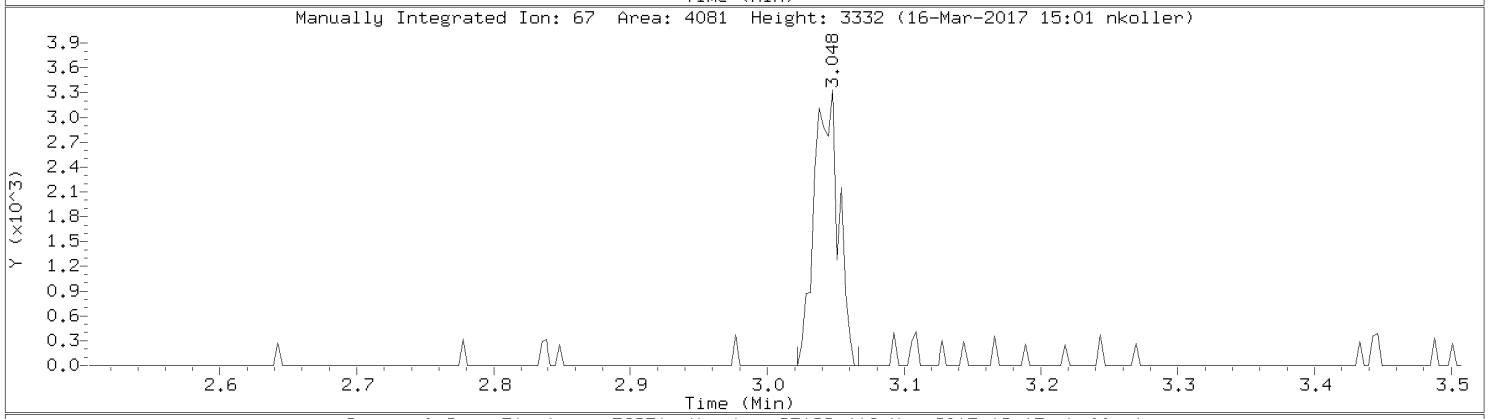


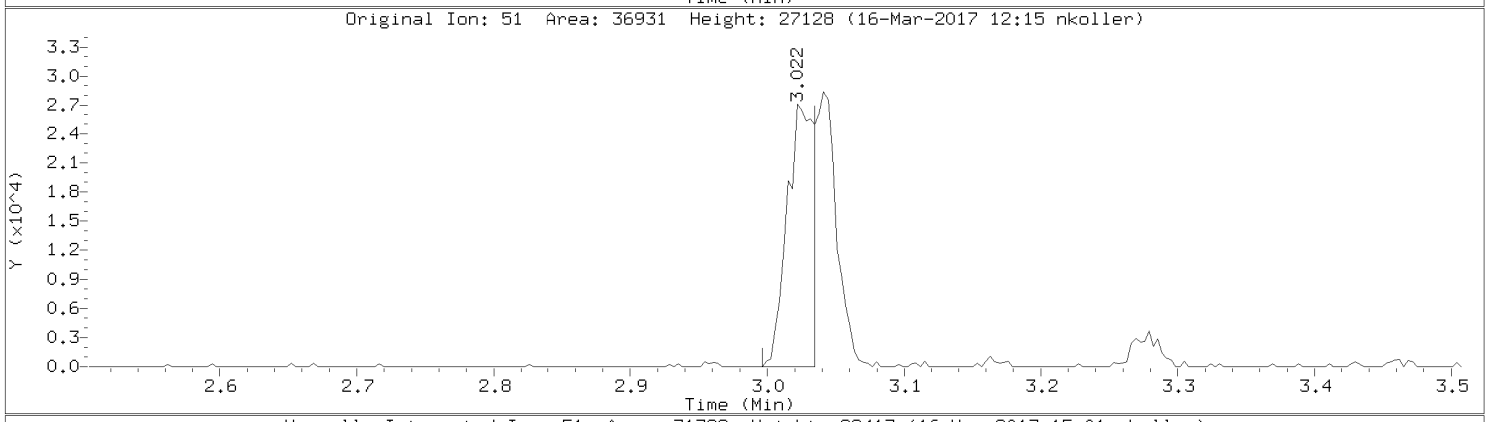


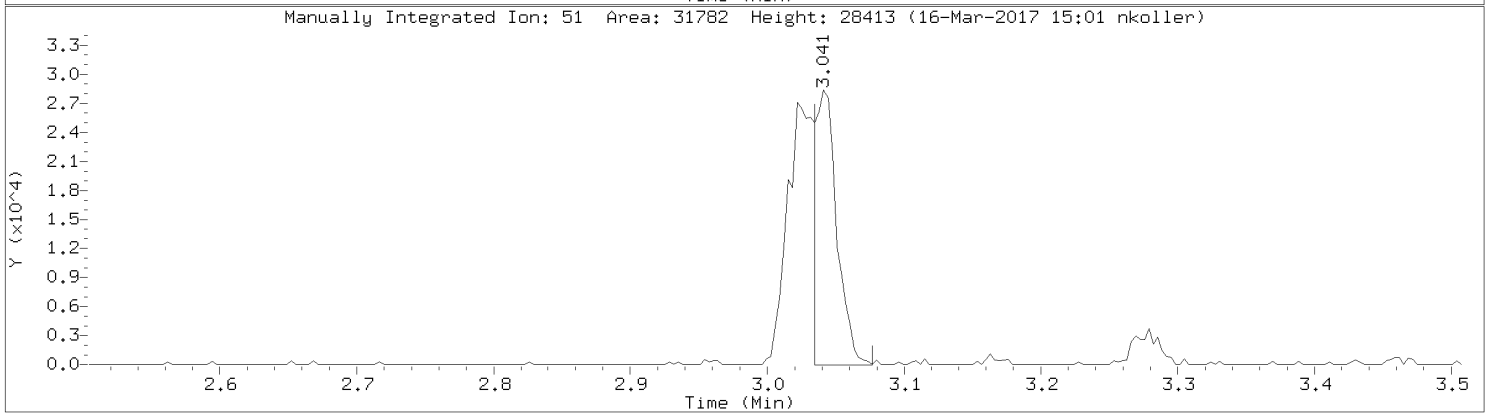
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07503.D
Injection Date: 16-MAR-2017 09:44
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

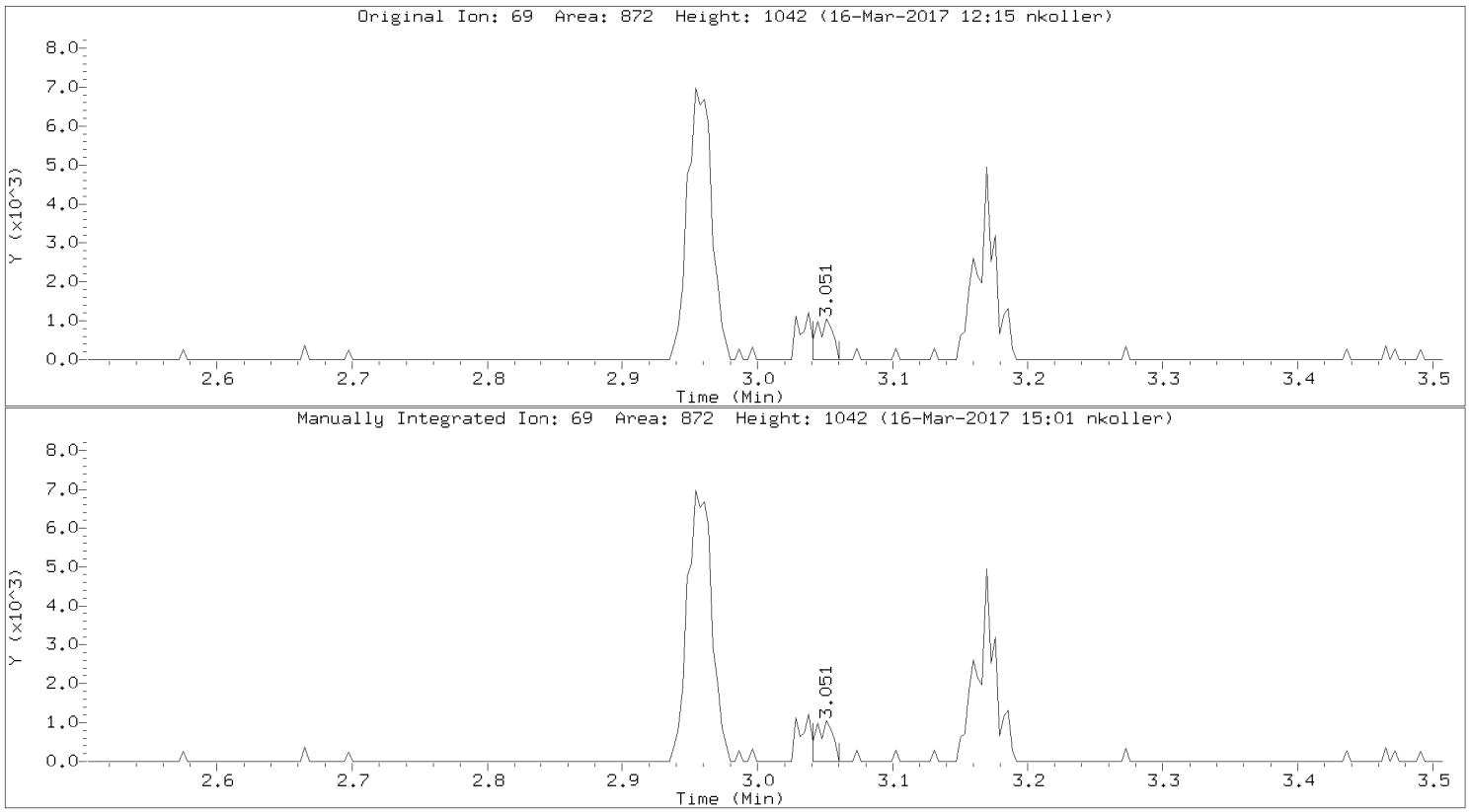








Data File: \\192.168.10.12\chem\10airB.i\031617.b/07503.D
Injection Date: 16-MAR-2017 09:44
Instrument: 10airB.i
Lab Sample ID: cal2



Data File: \\192.168.10.12\chem\10airB.i\031617.b\07504.D
Report Date: 20-Mar-2017 12:25

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\031617.b\07504.D
Lab Smp Id: cal3
Inj Date : 16-MAR-2017 10:12
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Meth Date : 20-Mar-2017 12:18 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.918	2.915	(0.521)	22394	0.50000	0.469
2	1,1-Difluoroethane	65	2.979	3.005	(0.532)	25415	0.50000	0.405(Q)
3	Chlorodifluoromethane	67	3.005	3.005	(0.537)	10910	0.50000	0.523(QMH)
4	Propylene	41	3.002	2.999	(0.536)	34955	0.50000	0.509
5	Dichlorodifluoromethane	85	3.034	3.041	(0.542)	115925	0.50000	0.360
6	Chloromethane	50	3.131	3.144	(0.559)	49498	0.50000	0.484
7	Dichlorotetrafluoroethane	85	3.134	3.160	(0.560)	100648	0.50000	0.506
8	Vinyl chloride	62	3.204	3.224	(0.573)	36719	0.50000	0.467(H)
9	1,3-Butadiene	54	3.243	3.272	(0.580)	30735	0.50000	0.483
10	Bromomethane	94	3.381	3.410	(0.604)	27275	0.50000	0.499
11	Chloroethane	64	3.436	3.465	(0.614)	15663	0.50000	0.486
12	Ethanol	45	3.539	3.552	(0.632)	63569	2.50000	2.39
13	Vinyl Bromide	106	3.549	3.581	(0.634)	25310	0.50000	0.479
14	Isopentane	43	3.565	3.600	(0.637)	45397	0.50000	0.381(M)
15	Freon 123	83	3.577	3.607	(0.639)	61829	0.50000	0.531
16	Trichlorofluoromethane	101	3.639	3.674	(0.650)	70878	0.50000	0.493
17	Acrolein	56	3.661	3.690	(0.654)	29116	1.25000	1.21
18	Acetone	43	3.706	3.729	(0.662)	301716	2.50000	2.63
19	Isopropyl Alcohol	45	3.761	3.777	(0.672)	290912	2.50000	2.33
20	1,1-Dichloroethene	61	3.876	3.912	(0.693)	52088	0.50000	0.501
21	Acrylonitrile	53	3.896	3.934	(0.696)	63696	1.25000	1.18
22	Freon 113	101	3.918	3.951	(0.700)	55499	0.50000	0.507
23	Methyl Acetate	43	3.944	3.967	(0.705)	88690	0.50000	0.511

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07504.D
Report Date: 20-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.967	(0.706)	167626	1.25000	1.29(Q)
	25 Methylene chloride	49	3.973	4.005	(0.710)	234257	2.50000	2.48
	26 Allyl Chloride	76	3.986	4.021	(0.712)	23497	1.25000	1.18(QM)
	27 Carbon Disulfide	76	4.089	4.127	(0.731)	53501	0.50000	0.458
	28 trans-1,2-dichloroethene	96	4.243	4.282	(0.758)	23204	0.50000	0.460
	29 Methyl Tert Butyl Ether	73	4.304	4.307	(0.769)	160303	1.25000	1.23
	30 Vinyl Acetate	43	4.368	4.398	(0.781)	76589	0.50000	0.444
	31 1,1-Dichloroethane	63	4.375	4.417	(0.782)	52684	0.50000	0.481
$	32 Hexane-d14(S)	66	4.478	4.491	(0.800)	2400951	10.0000	9.87
	33 Methyl Ethyl Ketone	72	4.552	4.561	(0.813)	12463	0.50000	0.471(Q)
	34 n-Hexane	57	4.571	4.584	(0.817)	56703	0.50000	0.466(QM)
	35 Di-isopropyl Ether	45	4.593	4.610	(0.821)	116244	0.50000	0.460
	36 Ethyl Acetate	43	4.709	4.722	(0.841)	73140	0.50000	0.427
	37 cis-1,2-Dichloroethene	96	4.696	4.732	(0.839)	25197	0.50000	0.407
	38 Ethyl Tert-Butyl Ether	59	4.822	4.832	(0.862)	294427	1.25000	1.28
	39 Chloroform	83	4.809	4.851	(0.859)	66318	0.50000	0.513
	40 Tetrahydrofuran	42	4.999	4.996	(0.893)	39958	0.50000	0.440
	41 1,1,1-Trichloroethane	97	5.208	5.237	(0.930)	73719	0.50000	0.485
	42 1,2-Dichloroethane	62	5.211	5.246	(0.931)	60459	0.50000	0.481
	43 Benzene	78	5.449	5.471	(0.974)	97537	0.50000	0.477
	44 Carbon tetrachloride	117	5.468	5.491	(0.977)	65914	0.50000	0.461
	45 Cyclohexane	56	5.478	5.494	(0.979)	60527	0.50000	0.491
	46 Tert Amyl Methyl Ether	73	5.600	5.610	(1.001)	156175	0.50000	0.440(Q)
*	47 1,4-Difluorobenzene	114	5.597	5.619	(1.000)	7098821	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.777	(1.028)	522222	1.25000	1.36
	49 Heptane	43	5.873	5.896	(1.049)	67272	0.50000	0.467
	50 1,2-Dichloropropane	63	5.957	5.973	(1.064)	40299	0.50000	0.483
	51 Trichloroethene	130	5.970	5.992	(1.067)	44050	0.50000	0.461
	52 Methyl methacrylate	69	6.044	6.050	(1.080)	30459	0.50000	0.459
	53 1,4-Dioxane	88	6.085	6.073	(1.087)	21771	0.50000	0.478
	54 Bromodichloromethane	83	6.069	6.092	(1.084)	66310	0.50000	0.458
	55 Methylcyclohexane	98	6.417	6.439	(1.146)	23382	0.50000	0.428(Q)
	56 Methyl Isobutyl Ketone	43	6.536	6.536	(1.168)	223775	1.25000	1.18
	57 cis-1,3-Dichloropropene	75	6.577	6.590	(1.175)	46112	0.50000	0.440
	58 trans-1,3-Dichloropropene	75	6.973	6.989	(1.246)	34444	0.50000	0.403
$	59 Toluene-d8 (S)	98	7.066	7.082	(1.263)	6370604	10.0000	9.75
	60 1,1,2-Trichloroethane	97	7.134	7.150	(1.275)	38152	0.50000	0.466
	61 Toluene	91	7.143	7.159	(1.276)	109128	0.50000	0.460
	62 Methyl Butyl Ketone	43	7.375	7.378	(0.854)	173161	1.25000	1.12
	63 n-Octane	43	7.577	7.587	(0.877)	82347	0.50000	0.465
	64 Dibromochloromethane	129	7.671	7.687	(0.888)	53819	0.50000	0.421
	65 1,2-Dibromoethane	107	7.902	7.912	(0.915)	56914	0.50000	0.461
	66 Tetrachloroethene	166	7.979	7.989	(0.924)	52151	0.50000	0.477
*	67 Chlorobenzene - d5	117	8.638	8.648	(1.000)	4816229	10.0000	
	68 Chlorobenzene	112	8.680	8.690	(1.005)	80225	0.50000	0.458
	69 Ethyl Benzene	91	8.931	8.941	(1.034)	123066	0.50000	0.442
	70 m&p-Xylene	91	9.076	9.089	(1.051)	193153	1.00000	0.892
	71 n-Nonane	43	9.468	9.471	(1.096)	65097	0.50000	0.439
	72 Bromoform	173	9.474	9.484	(1.097)	32186	0.50000	0.440
	73 Styrene	104	9.500	9.513	(1.100)	62805	0.50000	0.447
	74 o-Xylene	91	9.577	9.584	(1.109)	95619	0.50000	0.446
	75 1,1,2,2-Tetrachloroethane	83	9.825	9.831	(1.137)	50861	0.50000	0.435
	76 Isopropylbenzene	105	10.159	10.166	(1.176)	125895	0.50000	0.441
	77 N-Propylbenzene	91	10.738	10.741	(1.243)	122641	0.50000	0.436

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07504.D
Report Date: 20-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.915	(1.263)	92804	0.50000	0.424
79	1,3,5-Trimethylbenzene	105	10.998	11.005	(1.273)	84978	0.50000	0.435
80	n-Decane	57	11.375	11.384	(2.032)	48570	0.50000	0.342
81	Tert-Butyl Benzene	119	11.494	11.500	(1.331)	94889	0.50000	0.433
82	1,2,4-Trimethylbenzene	105	11.510	11.516	(1.332)	82259	0.50000	0.440
83	1,3-Dichlorobenzene	146	11.786	11.799	(1.364)	45018	0.50000	0.444
84	Sec- Butylbenzene	105	11.802	11.812	(1.366)	117667	0.50000	0.428(M)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.857	(1.371)	2135369	10.0000	9.19
86	Benzyl Chloride	91	11.854	11.870	(1.372)	25914	0.50000	0.407(M)
87	1,4-Dichlorobenzene	146	11.883	11.896	(1.376)	46584	0.50000	0.449
88	p-Isopropyltoluene	119	11.985	11.992	(1.387)	87746	0.50000	0.154
89	1,2,3-Trimethylbenzene	105	12.027	12.040	(1.392)	76197	0.50000	0.445
90	1,2-Dichlorobenzene	146	12.281	12.285	(1.422)	40377	0.50000	0.356
91	N-Butylbenzene	91	12.455	12.465	(1.442)	65622	0.50000	0.435
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.494)	12878	0.50000	0.466
93	1,2,4-Trichlorobenzene	180	14.027	14.034	(1.624)	9513	0.50000	0.446
94	Naphthalene	128	14.156	14.166	(1.639)	30842	0.50000	0.631
95	Hexachlorobutadiene	225	14.403	14.413	(1.667)	32025	0.50000	0.528

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07504.D
Report Date: 20-Mar-2017 12:25

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07504.D
Lab Smp Id: cal3
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Misc Info:

Calibration Date: 16-MAR-2017
Calibration Time: 11:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

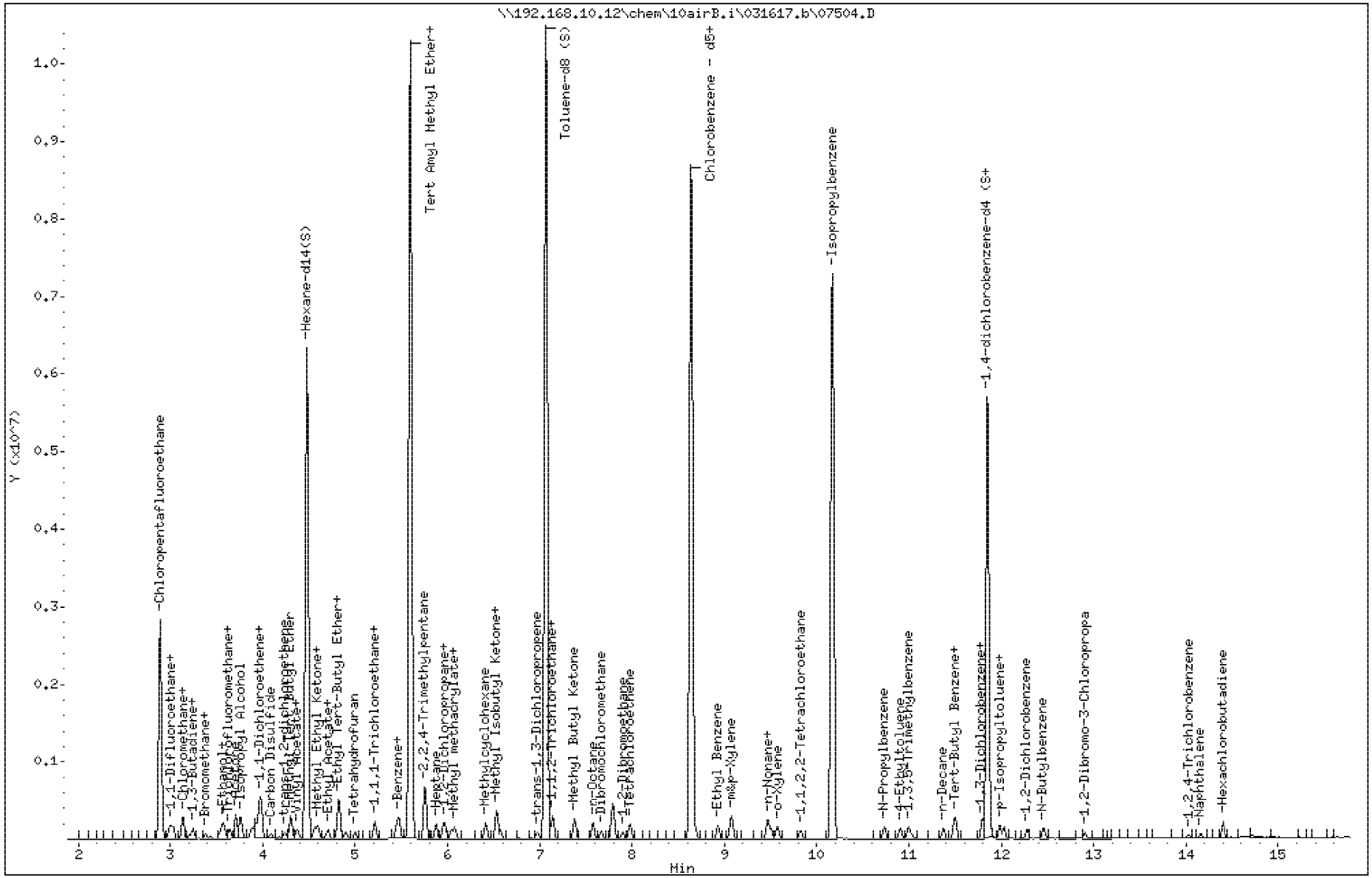
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	7098821	-7.10
67 Chlorobenzene - d	5205948	3123569	7288327	4816229	-7.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.60	-0.34
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

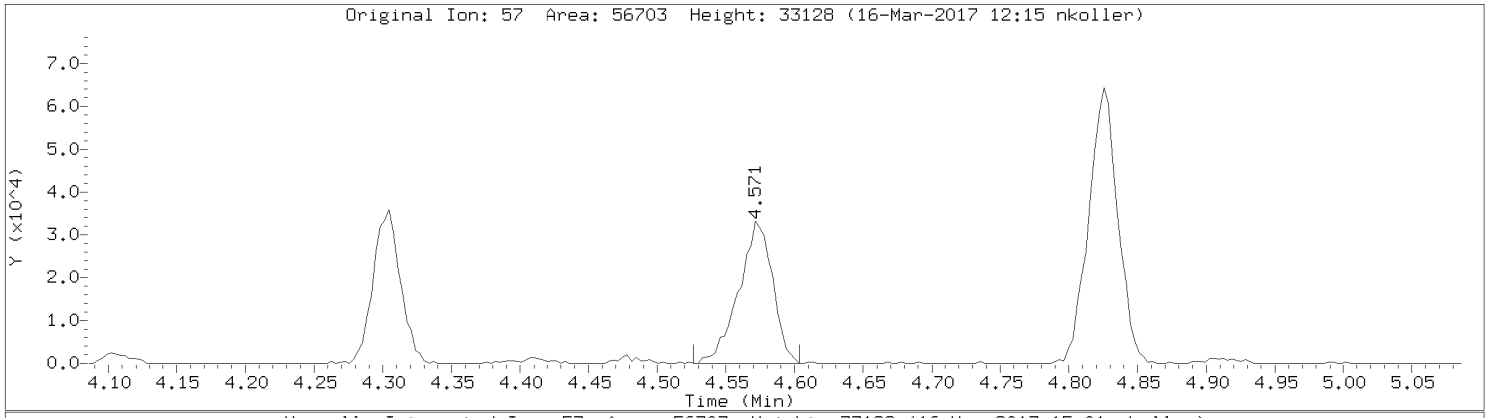
Data File: \\192.168.10.12\chem\10airB.i\031617.b\07504.D
Date : 16-MAR-2017 10:12
Client ID:
Sample Info:

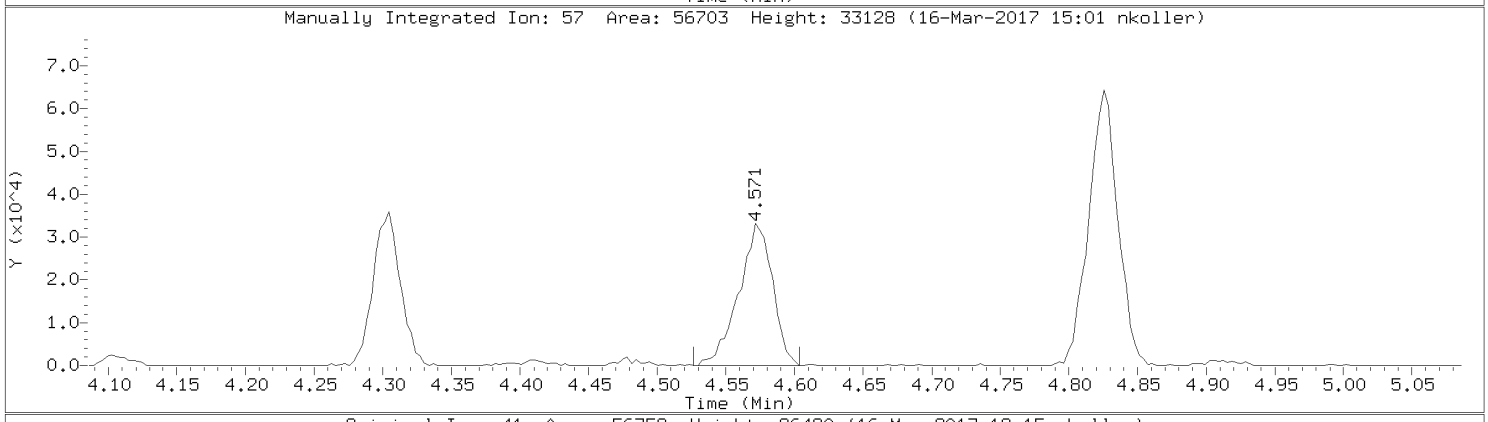
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

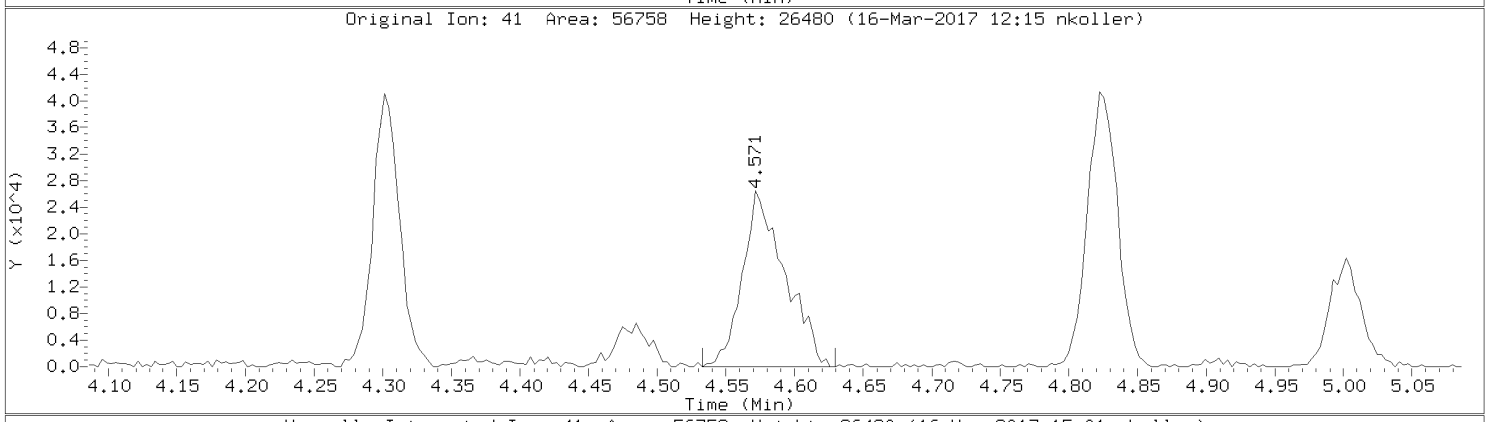


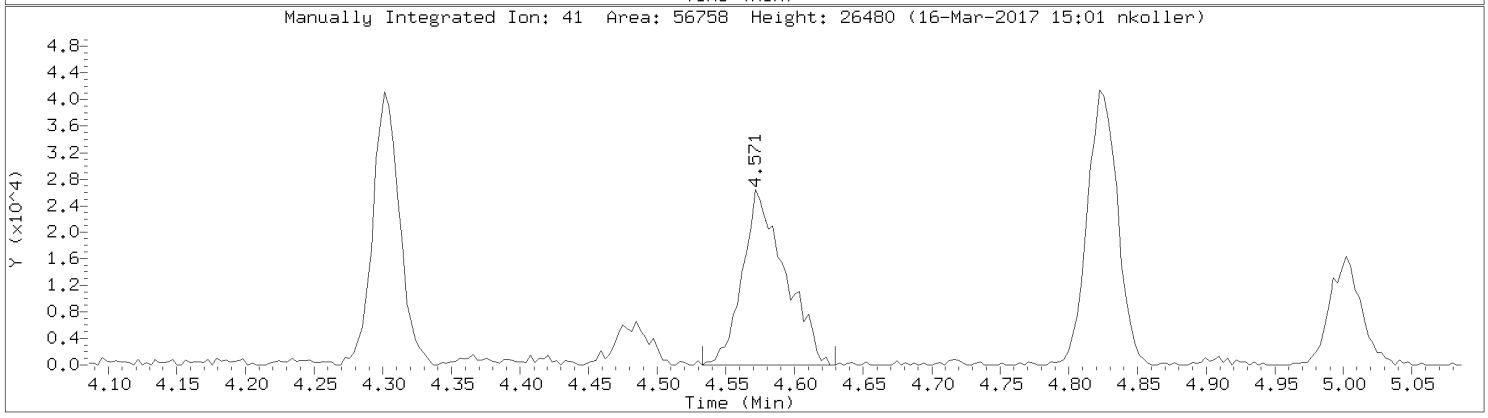
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07504.D
Injection Date: 16-MAR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: n-Hexane
CAS Number: 110-54-3

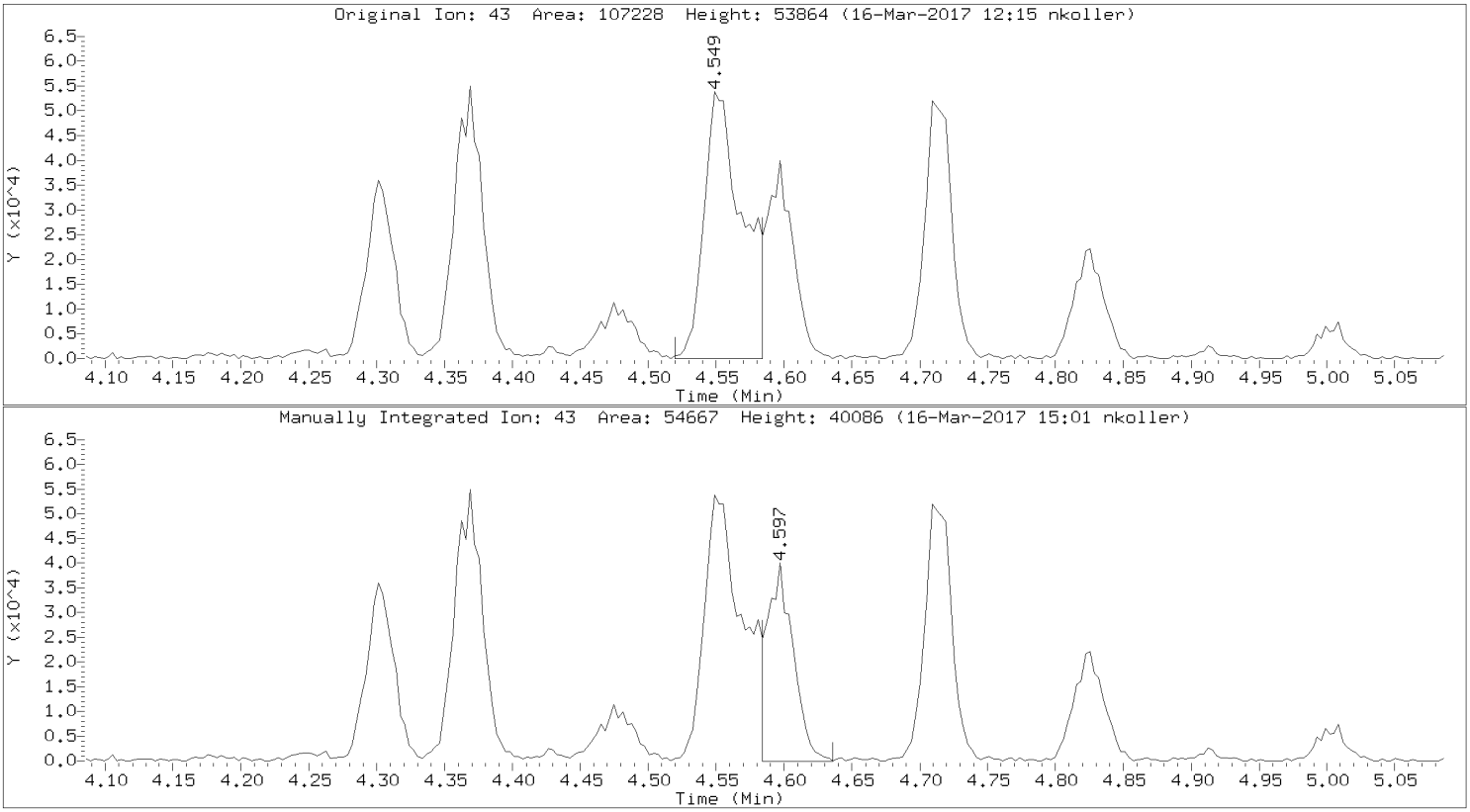






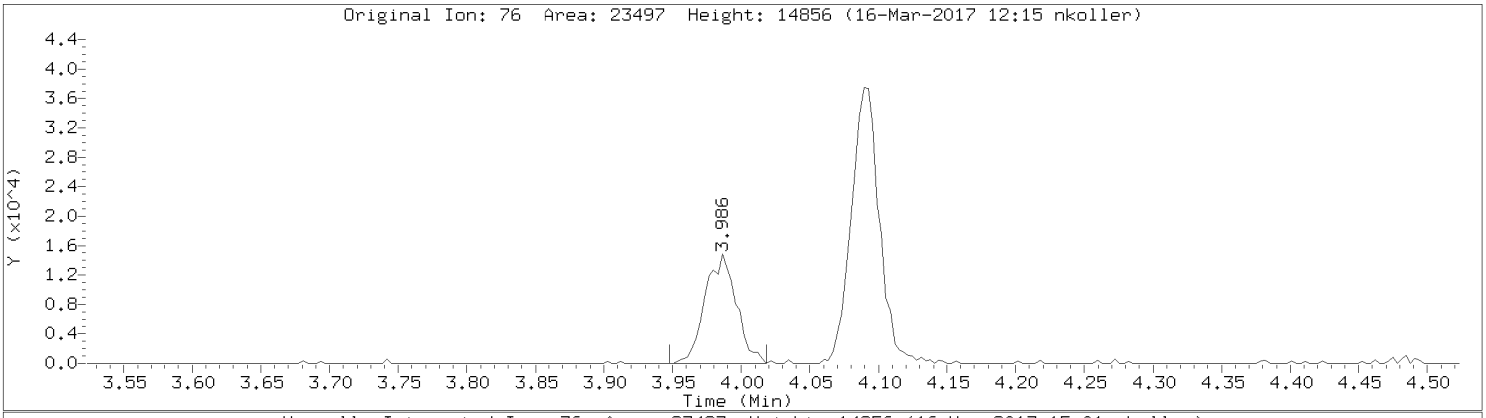


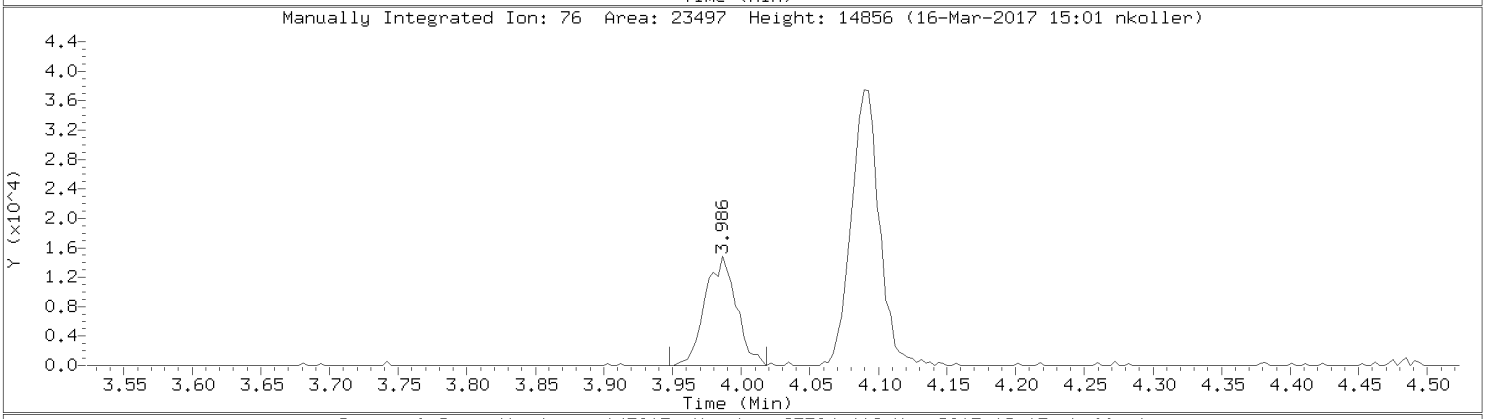
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07504.D
Injection Date: 16-MAR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: cal3

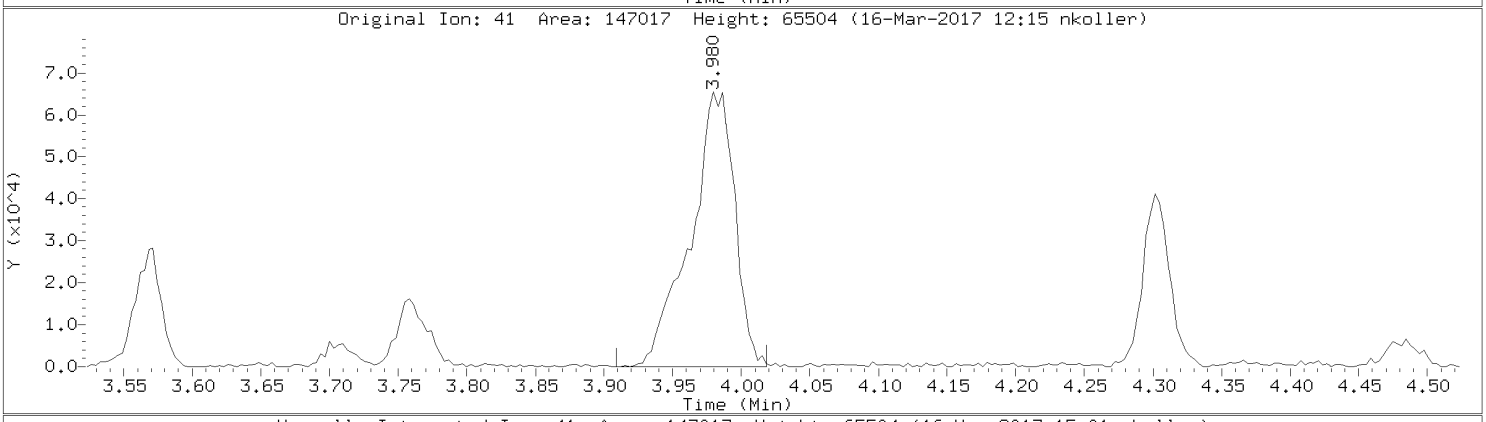


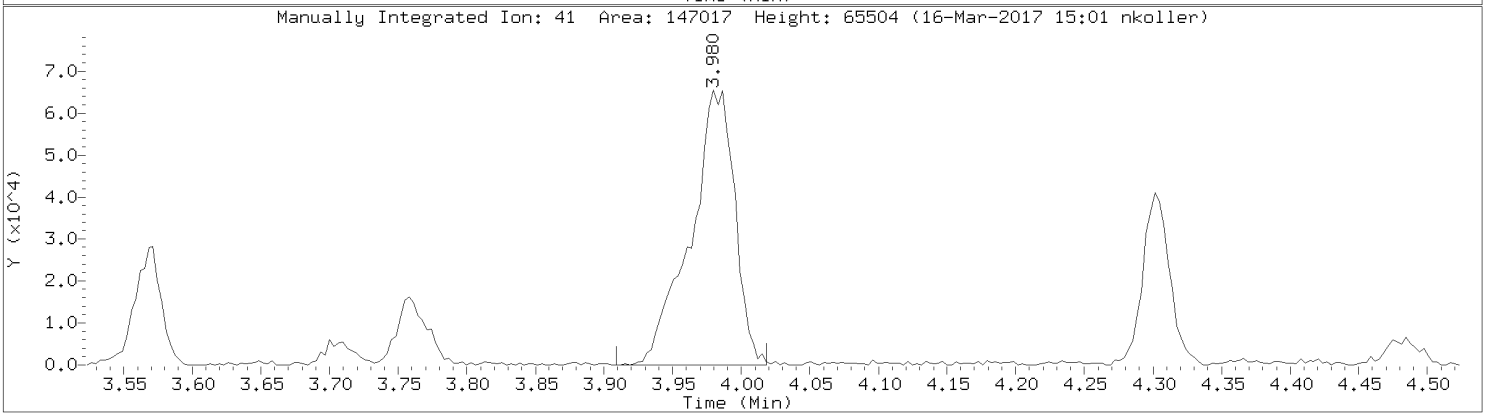
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07504.D
Injection Date: 16-MAR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Allyl Chloride
CAS Number: 107-05-1

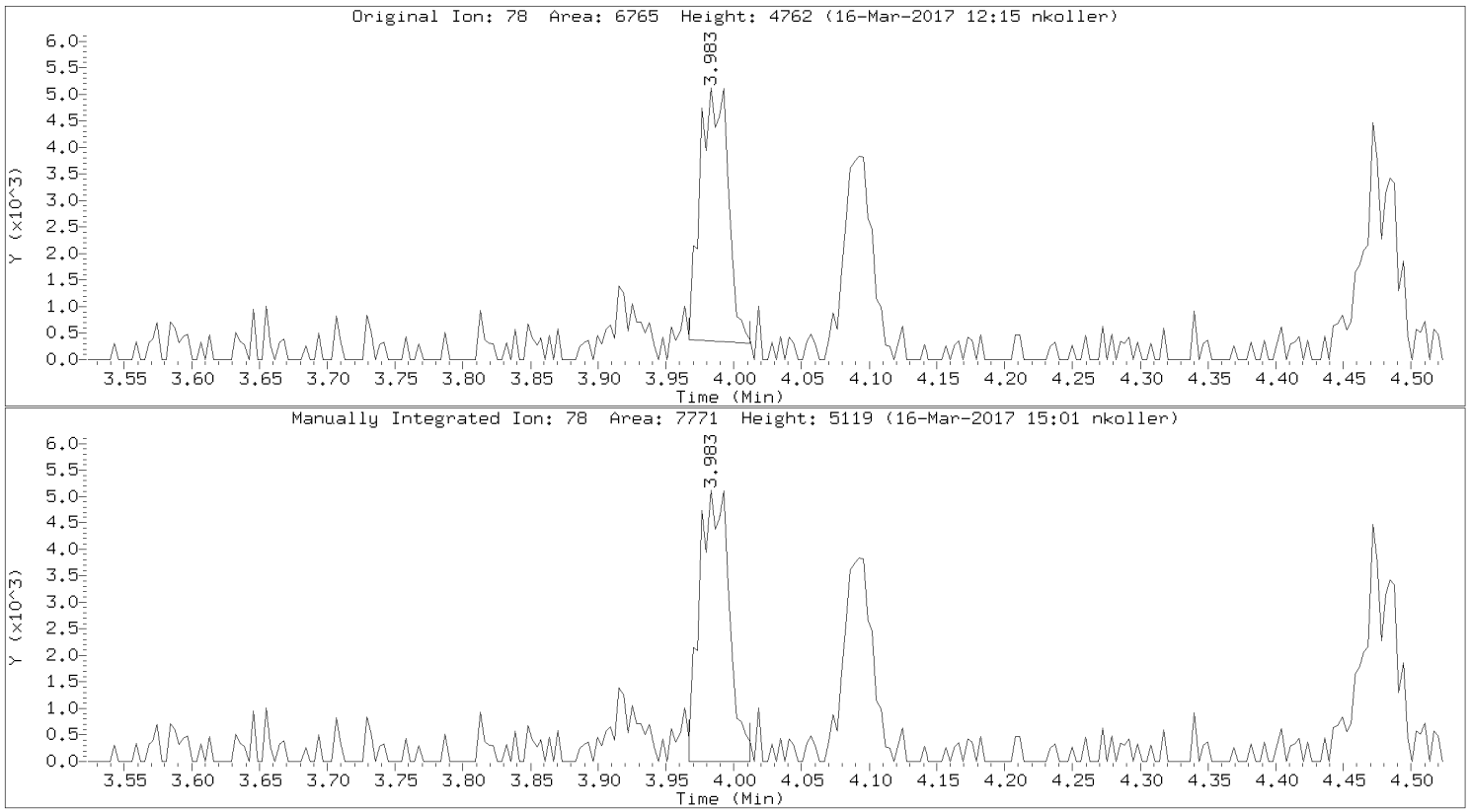






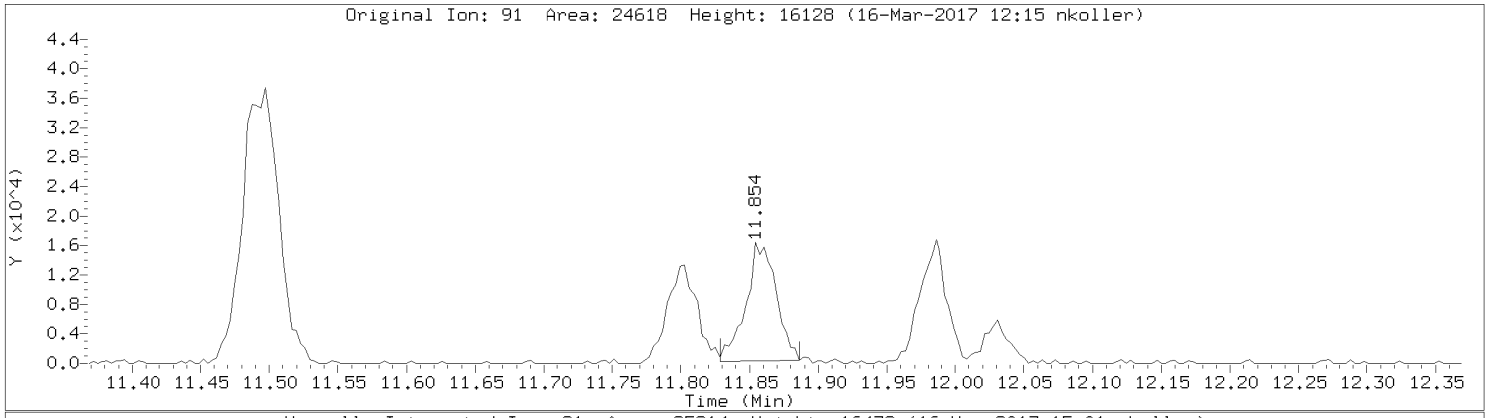


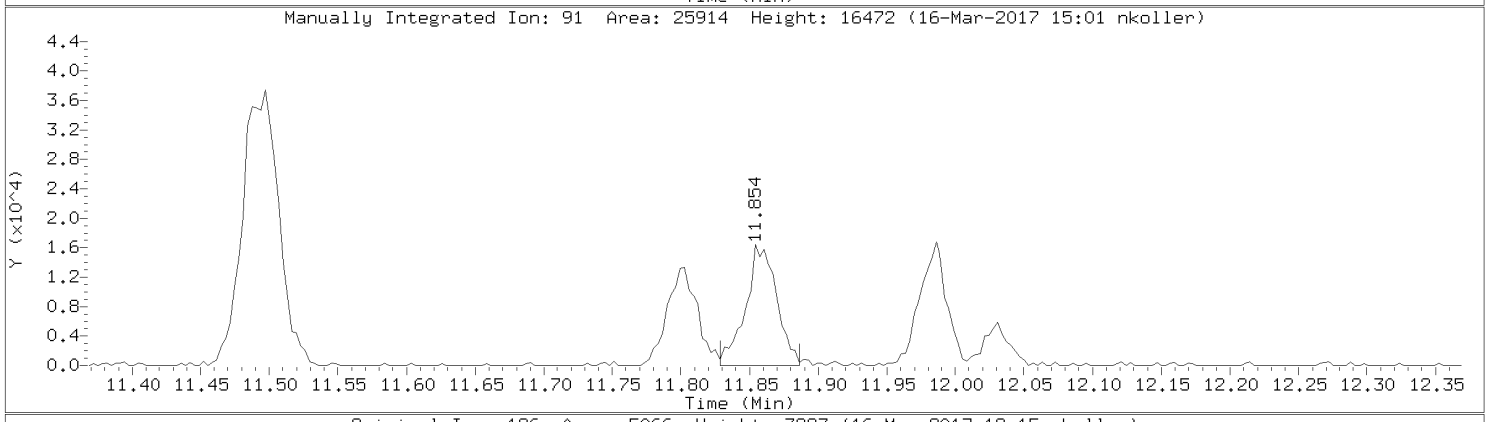
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07504.D
Injection Date: 16-MAR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: cal3

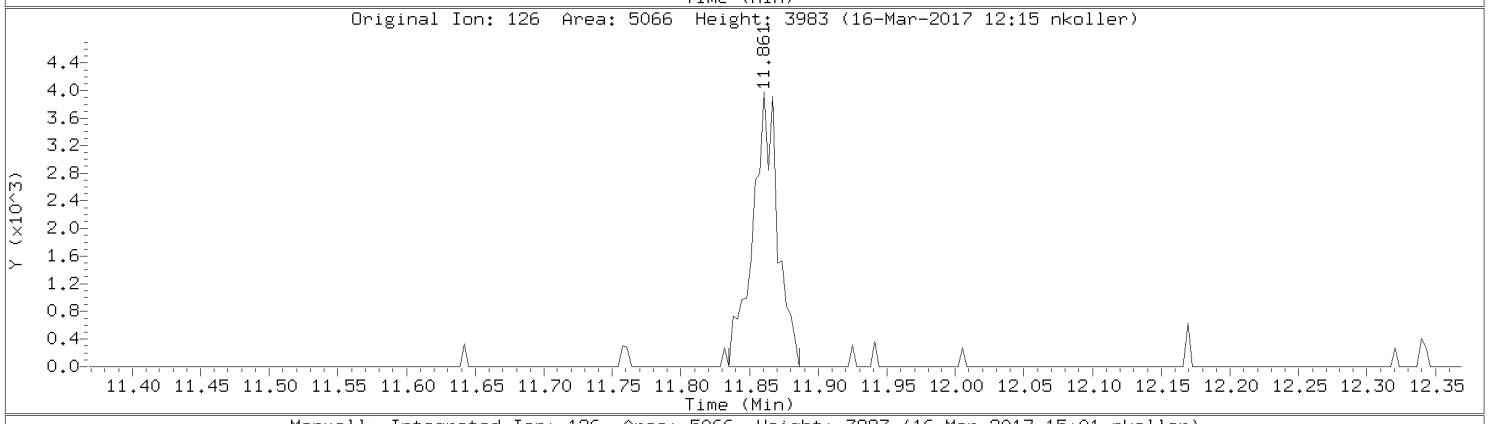


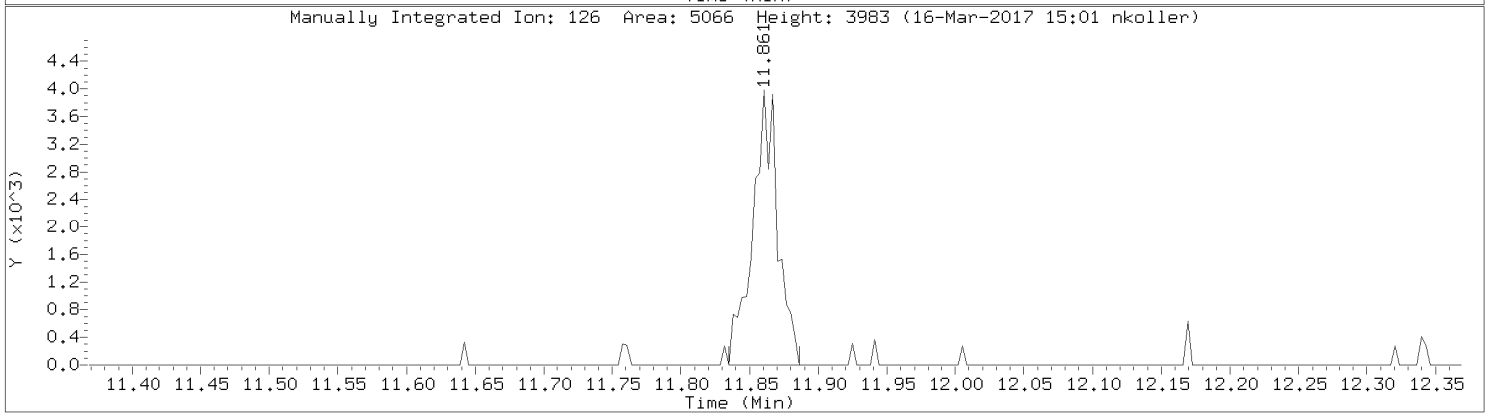
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07504.D
Injection Date: 16-MAR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Benzyl Chloride
CAS Number: 100-44-7



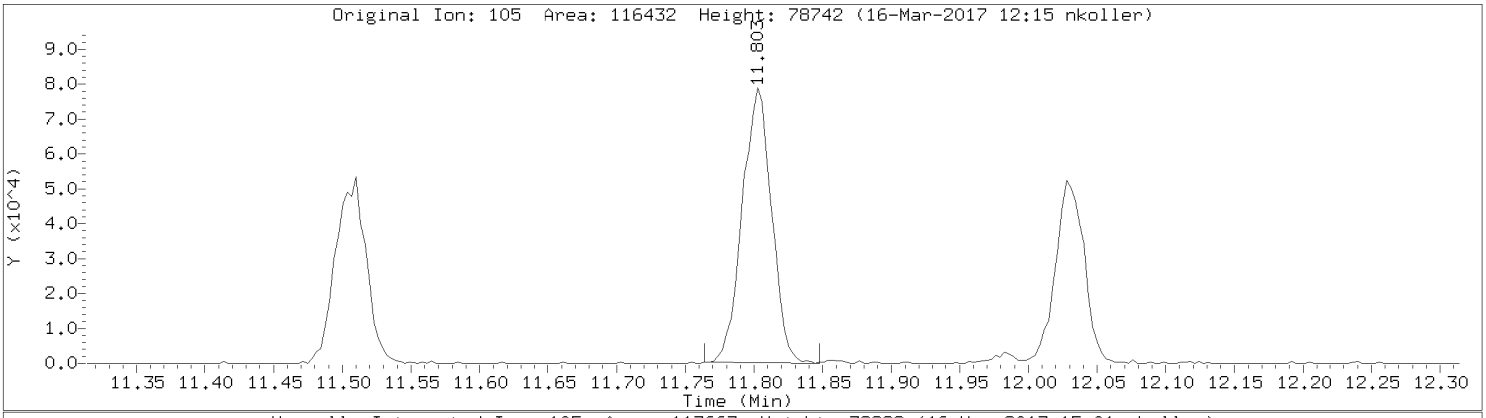


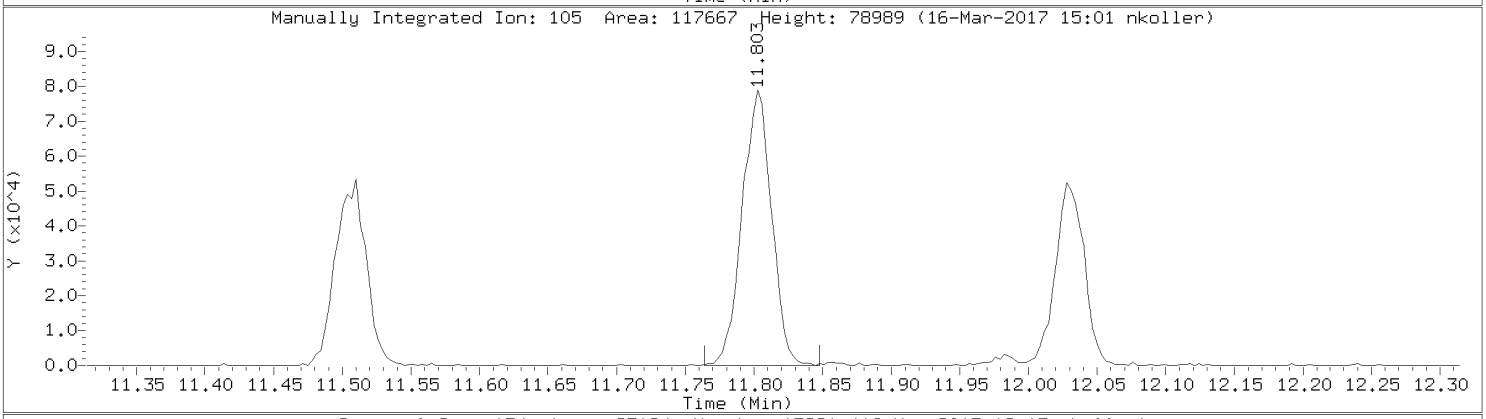


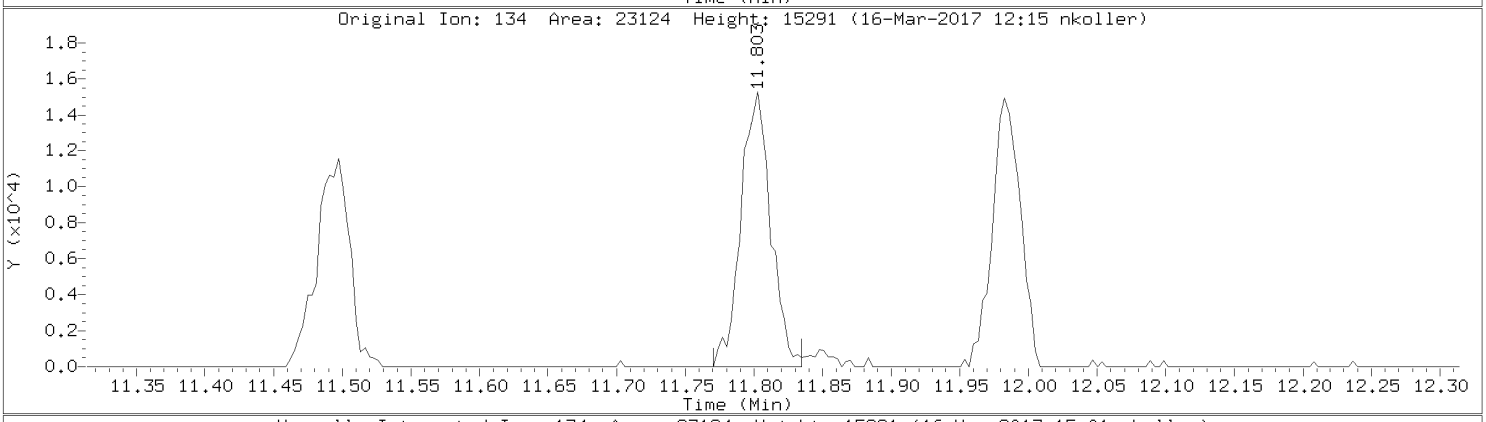


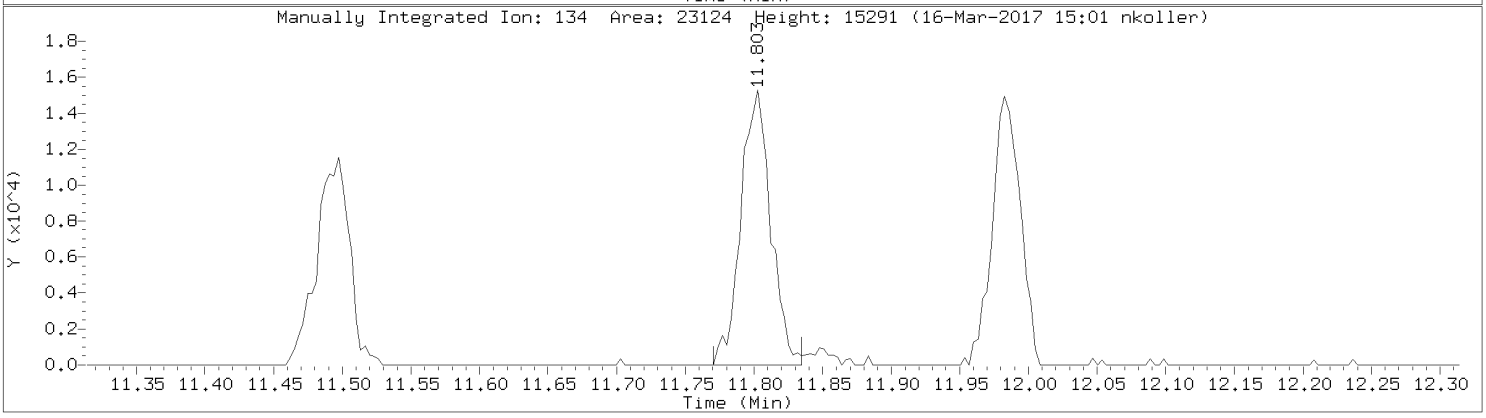
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07504.D
Injection Date: 16-MAR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Sec- Butylbenzene
CAS Number: 135-98-8



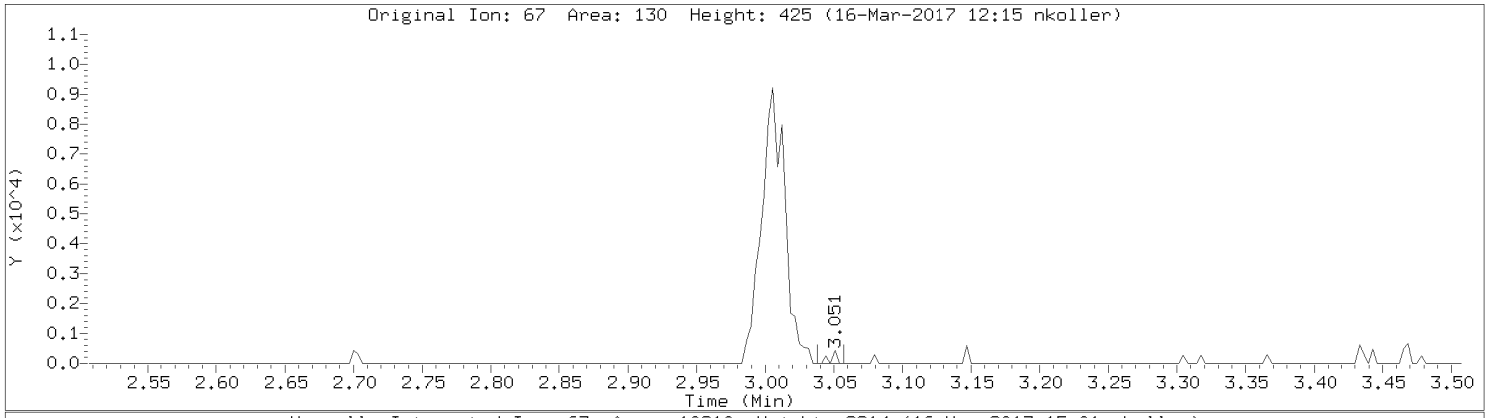


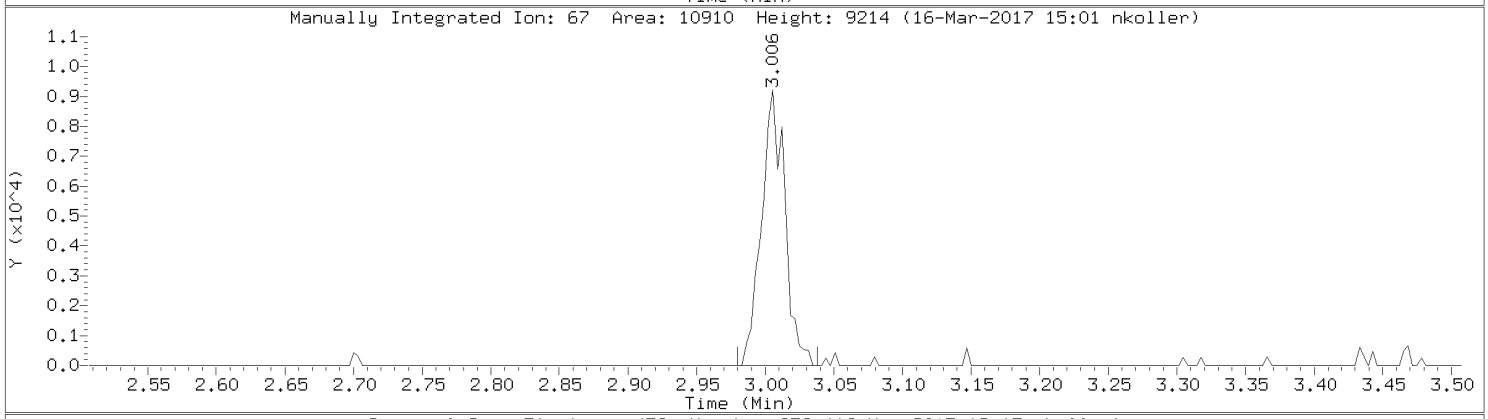


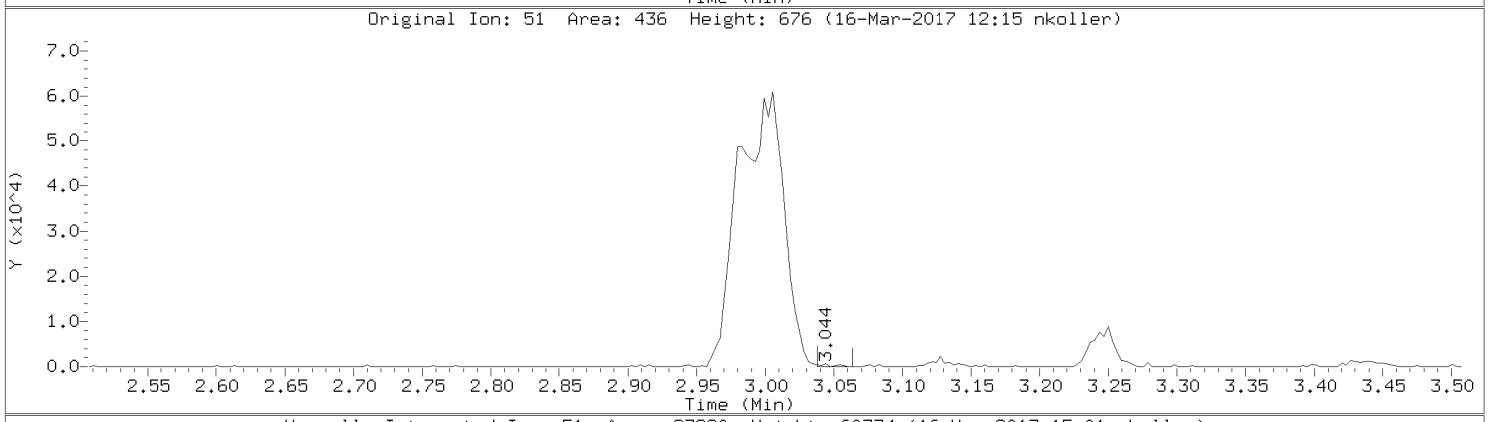


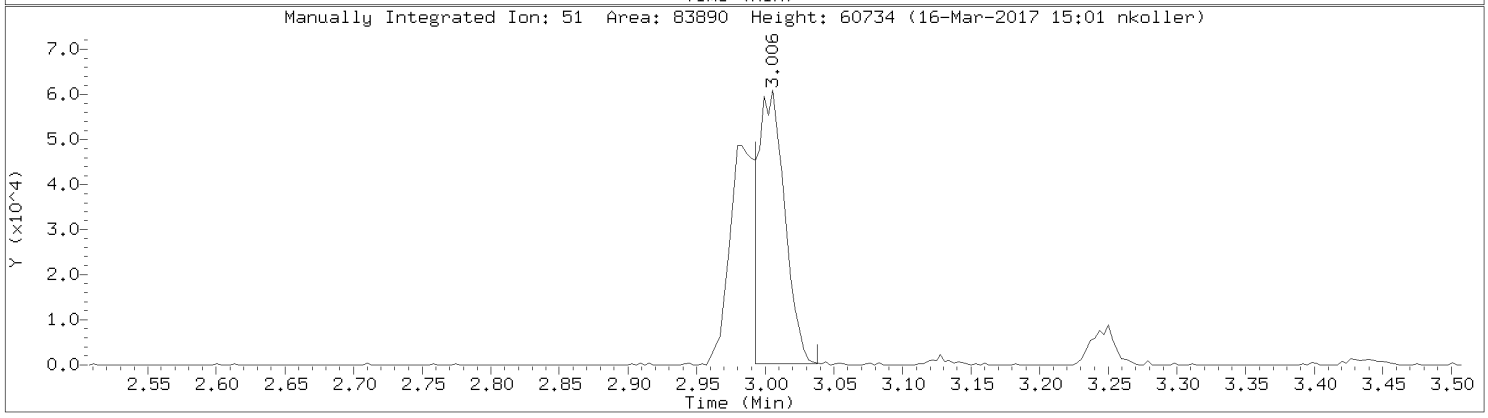
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07504.D
Injection Date: 16-MAR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

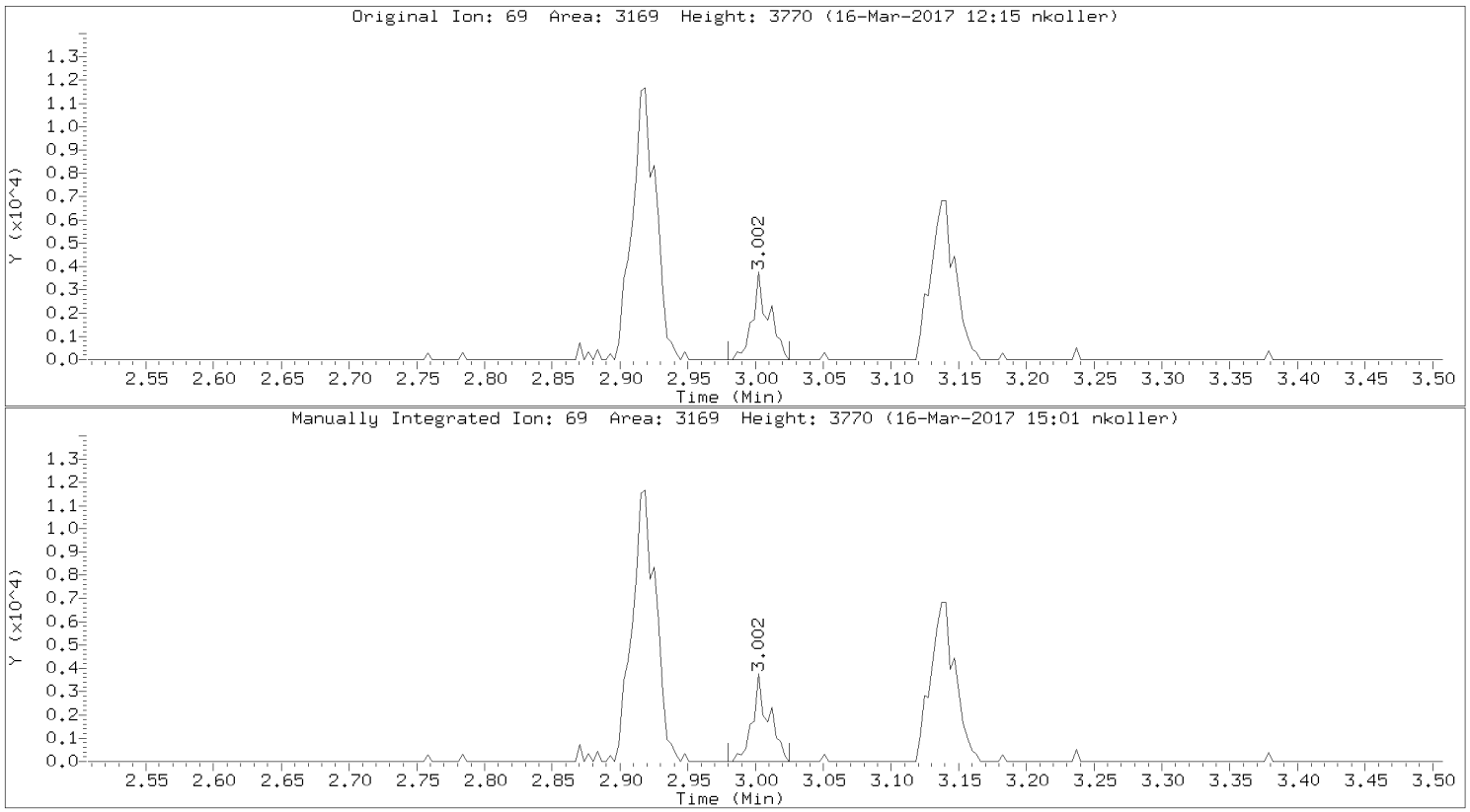






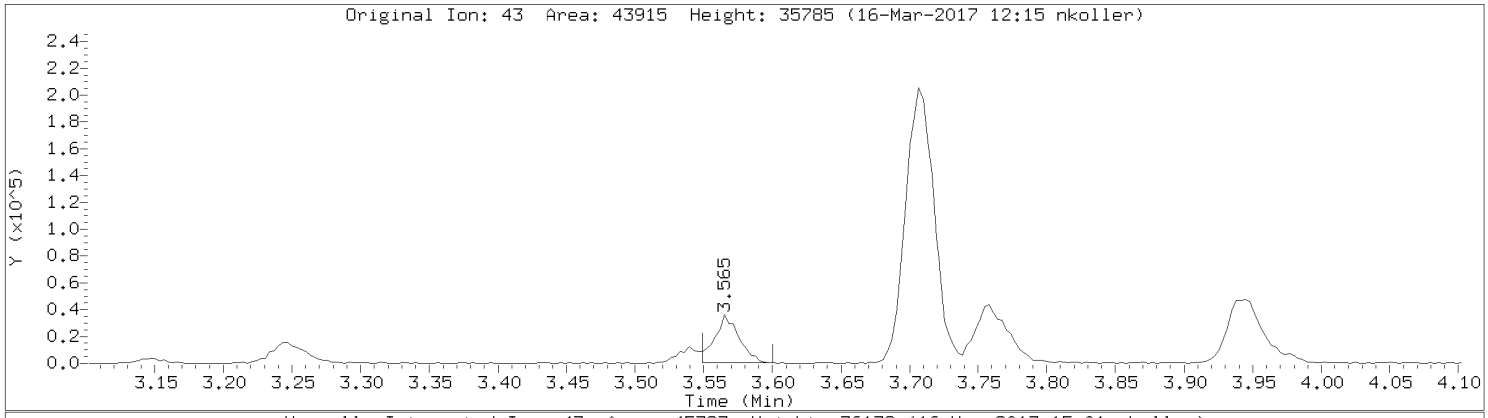


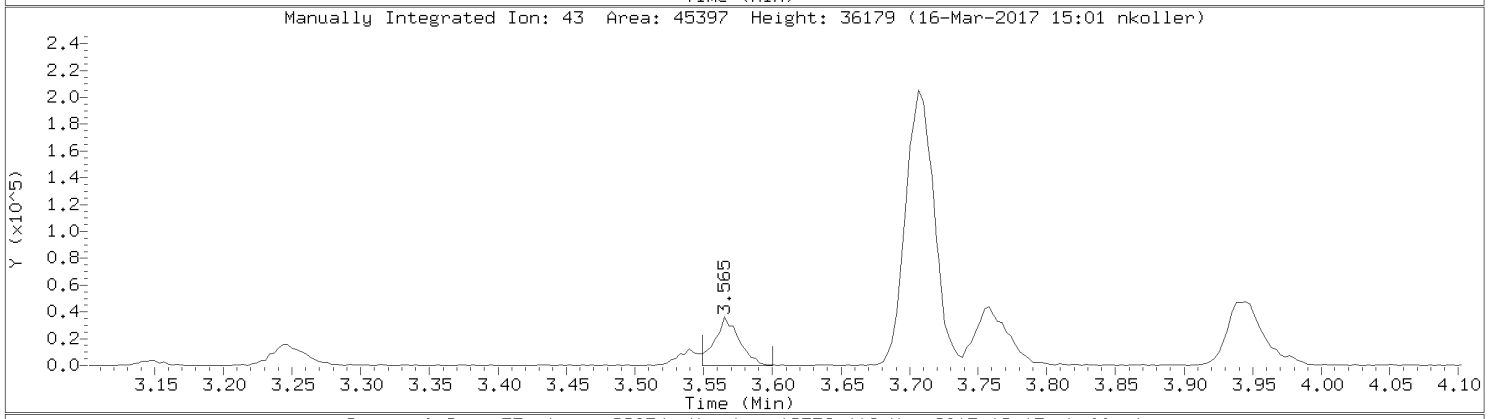
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07504.D
Injection Date: 16-MAR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: cal3

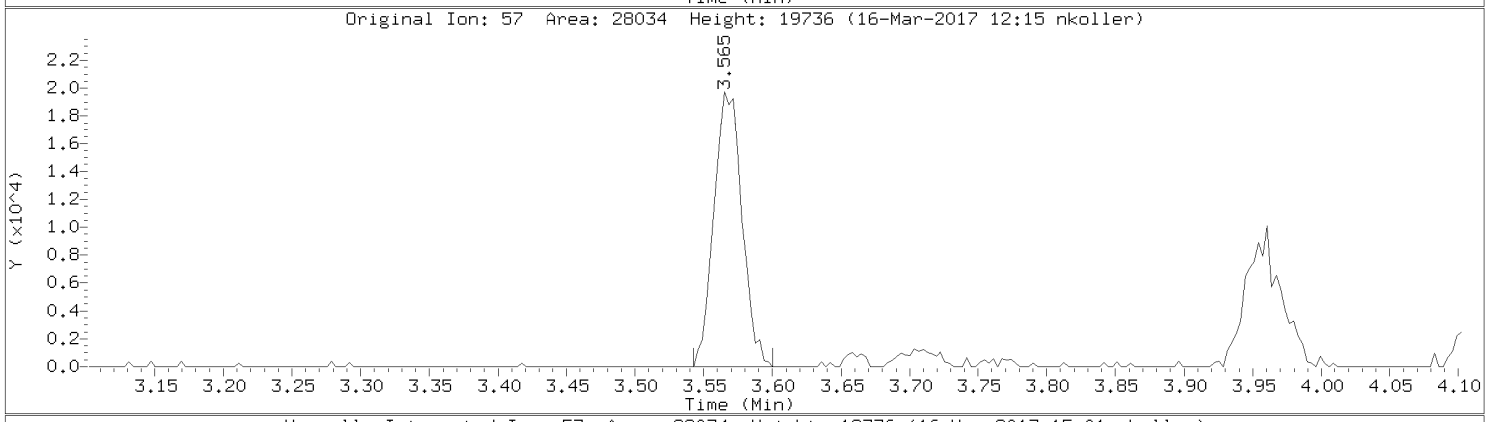


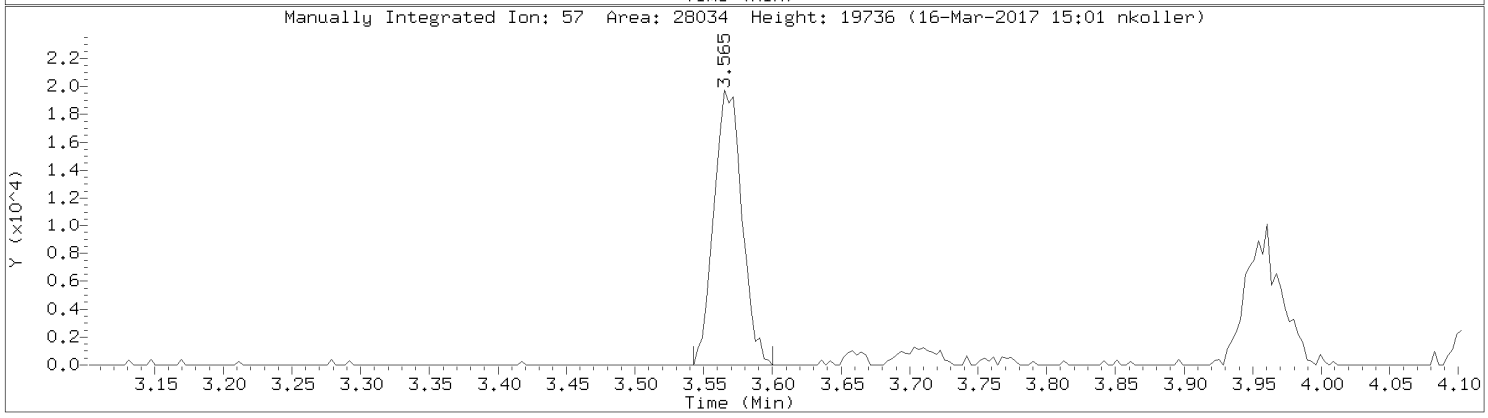
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07504.D
Injection Date: 16-MAR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Isopentane
CAS Number: 78-78-4

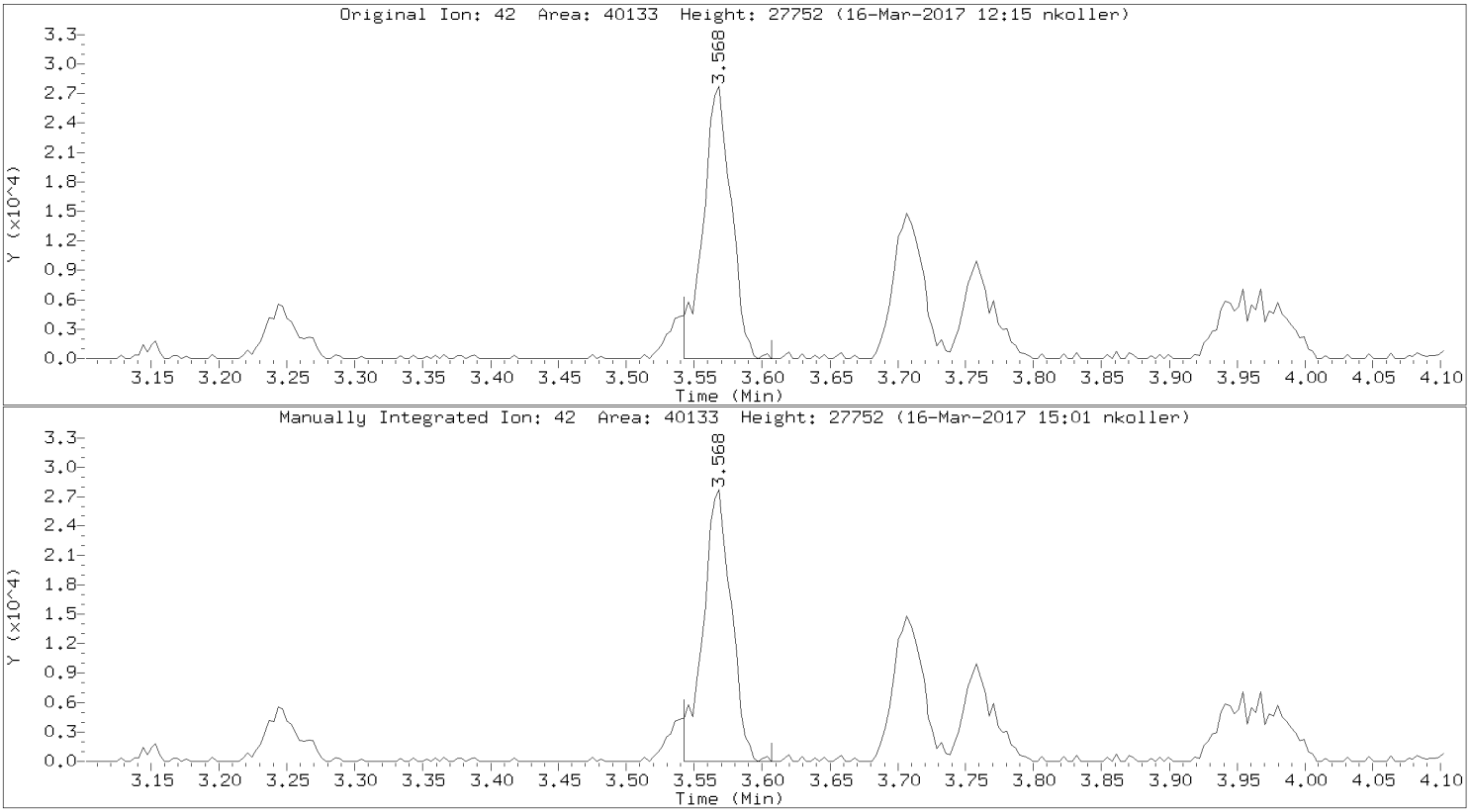








Data File: \\192.168.10.12\chem\10airB.i\031617.b/07504.D
Injection Date: 16-MAR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: cal3



Data File: \\192.168.10.12\chem\10airB.i\031617.b\07505.D
Report Date: 20-Mar-2017 12:25

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\031617.b\07505.D
Lab Smp Id: cal4
Inj Date : 16-MAR-2017 10:42
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Meth Date : 20-Mar-2017 12:18 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.944	2.915	(0.525)	23259	1.00000	0.518
2	1,1-Difluoroethane	65	3.008	3.005	(0.537)	48742	1.00000	1.09
3	Chlorodifluoromethane	67	3.028	3.005	(0.540)	19885	1.00000	1.06(Q)
4	Propylene	41	3.031	2.999	(0.541)	68311	1.00000	1.10
5	Dichlorodifluoromethane	85	3.060	3.041	(0.546)	224729	1.00000	1.11(H)
6	Chloromethane	50	3.156	3.144	(0.563)	99792	1.00000	1.08
7	Dichlorotetrafluoroethane	85	3.160	3.160	(0.564)	195464	1.00000	1.09
8	Vinyl chloride	62	3.234	3.224	(0.577)	74169	1.00000	1.05
9	1,3-Butadiene	54	3.269	3.272	(0.583)	60725	1.00000	1.06
10	Bromomethane	94	3.404	3.410	(0.608)	52557	1.00000	1.07
11	Chloroethane	64	3.455	3.465	(0.617)	30975	1.00000	1.07
12	Ethanol	45	3.542	3.552	(0.632)	125405	5.00000	5.25
13	Vinyl Bromide	106	3.574	3.581	(0.638)	50973	1.00000	1.07
14	Isopentane	43	3.587	3.600	(0.640)	81472	1.00000	1.03(H)
15	Freon 123	83	3.603	3.607	(0.643)	119625	1.00000	1.14
16	Trichlorofluoromethane	101	3.661	3.674	(0.653)	137737	1.00000	1.07
17	Acrolein	56	3.677	3.690	(0.656)	58833	2.50000	2.71
18	Acetone	43	3.716	3.729	(0.663)	568772	5.00000	5.51(M)
19	Isopropyl Alcohol	45	3.761	3.777	(0.671)	566310	5.00000	5.18
20	1,1-Dichloroethene	61	3.896	3.912	(0.695)	100639	1.00000	1.08
21	Acrylonitrile	53	3.912	3.934	(0.698)	133728	2.50000	2.75
22	Freon 113	101	3.941	3.951	(0.703)	110214	1.00000	1.12
23	Methyl Acetate	43	3.954	3.967	(0.706)	177236	1.00000	1.13

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07505.D
Report Date: 20-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.967	(0.706)	333067	2.50000	2.86
	25 Methylene chloride	49	3.992	4.005	(0.713)	453761	5.00000	5.35
	26 Allyl Chloride	76	4.005	4.021	(0.715)	46892	2.50000	2.61(Q)
	27 Carbon Disulfide	76	4.108	4.127	(0.733)	107697	1.00000	1.02(H)
	28 trans-1,2-dichloroethene	96	4.266	4.282	(0.761)	49460	1.00000	1.09
	29 Methyl Tert Butyl Ether	73	4.307	4.307	(0.769)	321535	2.50000	2.75
	30 Vinyl Acetate	43	4.381	4.398	(0.782)	161163	1.00000	1.04
	31 1,1-Dichloroethane	63	4.397	4.417	(0.785)	105361	1.00000	1.07
$	32 Hexane-d14(S)	66	4.491	4.491	(0.801)	2246215	10.0000	10.3
	33 Methyl Ethyl Ketone	72	4.558	4.561	(0.814)	23801	1.00000	1.000(Q)
	34 n-Hexane	57	4.581	4.584	(0.818)	119022	1.00000	1.09(Q)
	35 Di-isopropyl Ether	45	4.603	4.610	(0.822)	266408	1.00000	1.17
	36 Ethyl Acetate	43	4.719	4.722	(0.842)	178652	1.00000	1.16
	37 cis-1,2-Dichloroethene	96	4.709	4.732	(0.840)	60569	1.00000	1.09
	38 Ethyl Tert-Butyl Ether	59	4.828	4.832	(0.862)	618534	2.50000	2.99
	39 Chloroform	83	4.825	4.851	(0.861)	137950	1.00000	1.19
	40 Tetrahydrofuran	42	5.002	4.996	(0.893)	84170	1.00000	1.03
	41 1,1,1-Trichloroethane	97	5.224	5.237	(0.932)	148240	1.00000	1.08
	42 1,2-Dichloroethane	62	5.227	5.246	(0.933)	122104	1.00000	1.08
	43 Benzene	78	5.455	5.471	(0.974)	201095	1.00000	1.09
	44 Carbon tetrachloride	117	5.475	5.491	(0.977)	137417	1.00000	1.07
	45 Cyclohexane	56	5.484	5.494	(0.979)	125570	1.00000	1.13
	46 Tert Amyl Methyl Ether	73	5.606	5.610	(1.001)	233267	1.00000	1.06
*	47 1,4-Difluorobenzene	114	5.603	5.619	(1.000)	6386079	10.0000	
	48 2,2,4-Trimethylpentane	57	5.761	5.777	(1.028)	1043552	2.50000	3.02
	49 Heptane	43	5.883	5.896	(1.050)	140297	1.00000	1.08
	50 1,2-Dichloropropane	63	5.957	5.973	(1.063)	79635	1.00000	1.06
	51 Trichloroethene	130	5.979	5.992	(1.067)	88237	1.00000	1.03
	52 Methyl methacrylate	69	6.044	6.050	(1.079)	62956	1.00000	1.05
	53 1,4-Dioxane	88	6.082	6.073	(1.085)	44307	1.00000	1.08
	54 Bromodichloromethane	83	6.079	6.092	(1.085)	140454	1.00000	1.08
	55 Methylcyclohexane	98	6.423	6.439	(1.146)	54178	1.00000	1.10
	56 Methyl Isobutyl Ketone	43	6.536	6.536	(1.166)	467648	2.50000	2.74
	57 cis-1,3-Dichloropropene	75	6.581	6.590	(1.174)	95010	1.00000	1.01
	58 trans-1,3-Dichloropropene	75	6.983	6.989	(1.246)	76938	1.00000	0.855
$	59 Toluene-d8 (S)	98	7.069	7.082	(1.262)	5867926	10.0000	9.98
	60 1,1,2-Trichloroethane	97	7.137	7.150	(1.274)	76235	1.00000	1.04
	61 Toluene	91	7.150	7.159	(1.276)	220931	1.00000	1.03
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.854)	369960	2.50000	2.22
	63 n-Octane	43	7.581	7.587	(0.878)	167032	1.00000	1.02
	64 Dibromochloromethane	129	7.674	7.687	(0.888)	114814	1.00000	0.967
	65 1,2-Dibromoethane	107	7.899	7.912	(0.914)	113861	1.00000	0.994
	66 Tetrachloroethene	166	7.983	7.989	(0.924)	99835	1.00000	0.985
*	67 Chlorobenzene - d5	117	8.638	8.648	(1.000)	4467918	10.0000	
	68 Chlorobenzene	112	8.680	8.690	(1.005)	155056	1.00000	0.953
	69 Ethyl Benzene	91	8.931	8.941	(1.034)	257814	1.00000	0.997
	70 m&p-Xylene	91	9.076	9.089	(1.051)	394579	2.00000	1.77
	71 n-Nonane	43	9.468	9.471	(1.096)	147059	1.00000	1.07
	72 Bromoform	173	9.478	9.484	(1.097)	70796	1.00000	0.781
	73 Styrene	104	9.503	9.513	(1.100)	134105	1.00000	0.861
	74 o-Xylene	91	9.574	9.584	(1.108)	193020	1.00000	0.971
	75 1,1,2,2-Tetrachloroethane	83	9.825	9.831	(1.137)	111021	1.00000	0.875
	76 Isopropylbenzene	105	10.156	10.166	(1.176)	259312	1.00000	0.978
	77 N-Propylbenzene	91	10.735	10.741	(1.243)	272313	1.00000	0.841

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07505.D
Report Date: 20-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.915	(1.263)	218331	1.00000	0.832
79	1,3,5-Trimethylbenzene	105	10.998	11.005	(1.273)	188512	1.00000	0.846
80	n-Decane	57	11.378	11.384	(2.031)	115704	1.00000	0.904
81	Tert-Butyl Benzene	119	11.490	11.500	(1.330)	209358	1.00000	0.883
82	1,2,4-Trimethylbenzene	105	11.506	11.516	(1.332)	175616	1.00000	0.843
83	1,3-Dichlorobenzene	146	11.793	11.799	(1.365)	96695	1.00000	0.820
84	Sec- Butylbenzene	105	11.802	11.812	(1.366)	258353	1.00000	0.846
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.857	(1.372)	2248998	10.0000	10.4
86	Benzyl Chloride	91	11.860	11.870	(1.373)	63568	1.00000	0.689
87	1,4-Dichlorobenzene	146	11.886	11.896	(1.376)	96361	1.00000	0.827
88	p-Isopropyltoluene	119	11.982	11.992	(1.387)	195118	1.00000	0.638
89	1,2,3-Trimethylbenzene	105	12.031	12.040	(1.393)	165413	1.00000	0.845
90	1,2-Dichlorobenzene	146	12.275	12.285	(1.421)	84735	1.00000	0.745
91	N-Butylbenzene	91	12.458	12.465	(1.442)	154113	1.00000	0.817
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.494)	33797	1.00000	0.917
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.625)	25086	1.00000	0.901
94	Naphthalene	128	14.162	14.166	(1.639)	84847	1.00000	1.03
95	Hexachlorobutadiene	225	14.410	14.413	(1.668)	69693	1.00000	1.24

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07505.D
Report Date: 20-Mar-2017 12:25

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07505.D
Lab Smp Id: cal4
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Misc Info:

Calibration Date: 16-MAR-2017
Calibration Time: 11:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

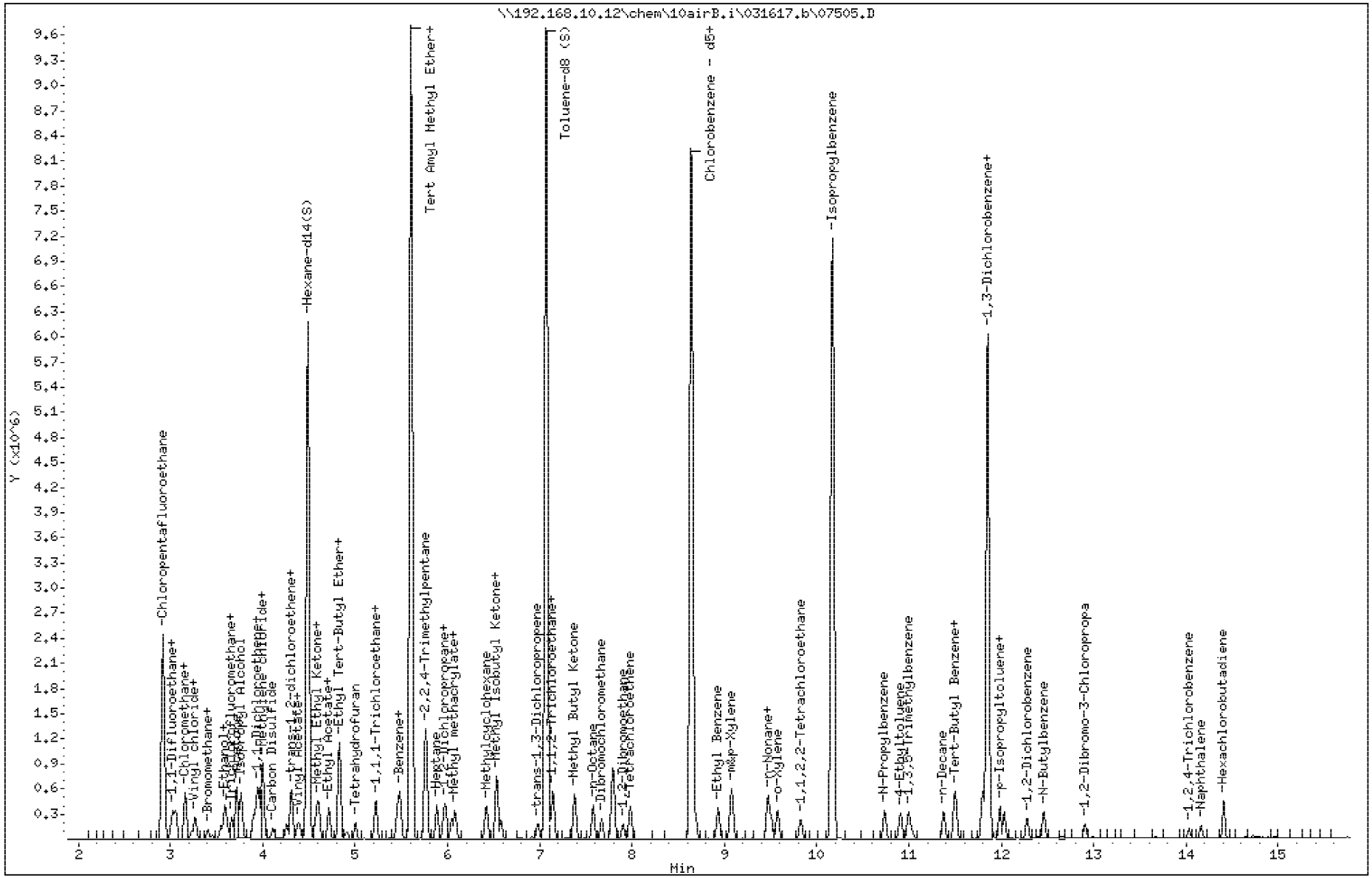
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6386079	-16.42
67 Chlorobenzene - d	5205948	3123569	7288327	4467918	-14.18

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

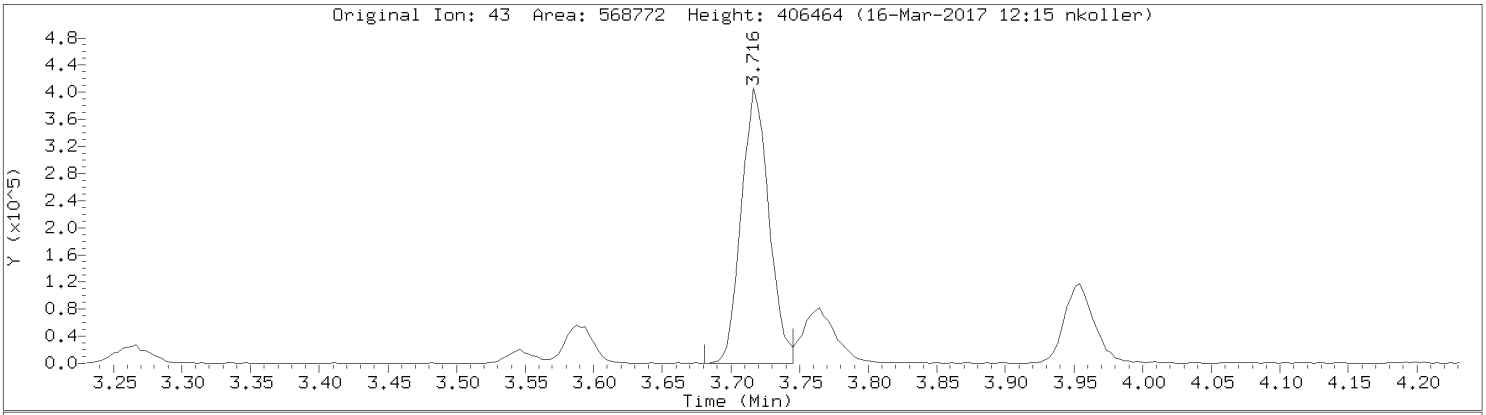
Data File: \\192.168.10.12\chem\10airB.i\031617.b\07505.D
Date : 16-MAR-2017 10:42
Client ID:
Sample Info:

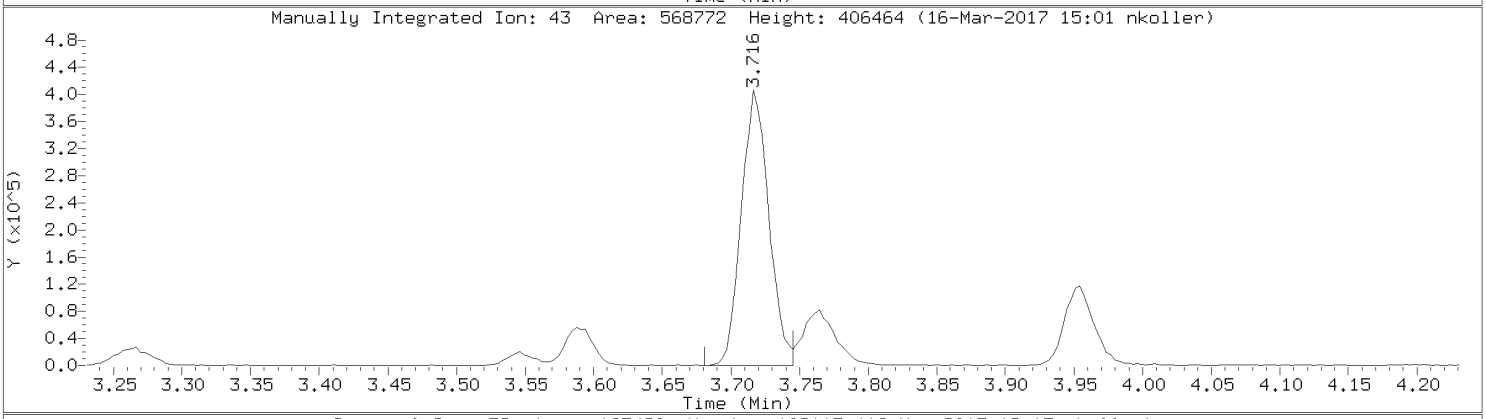
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

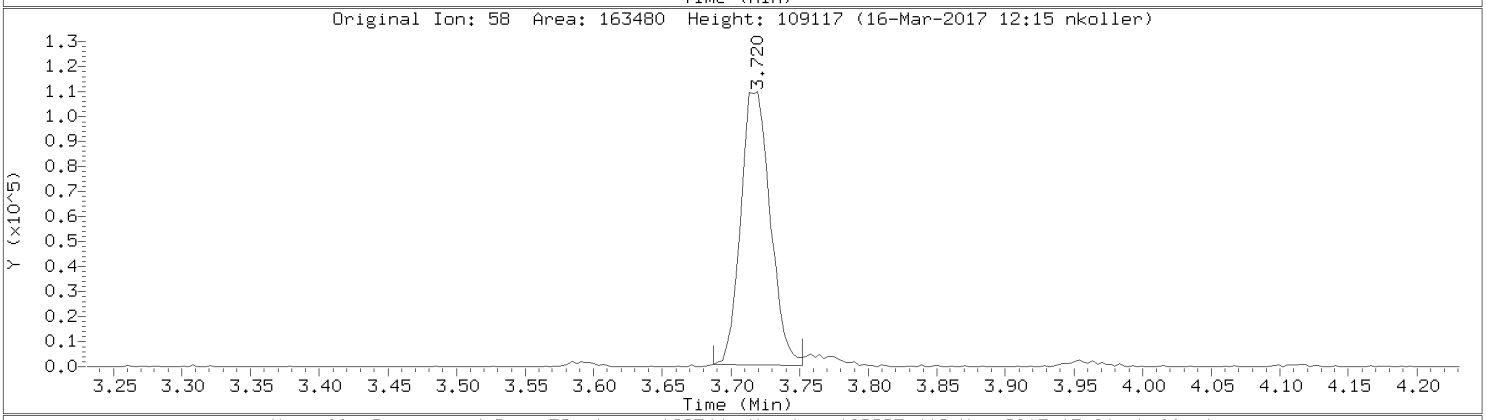


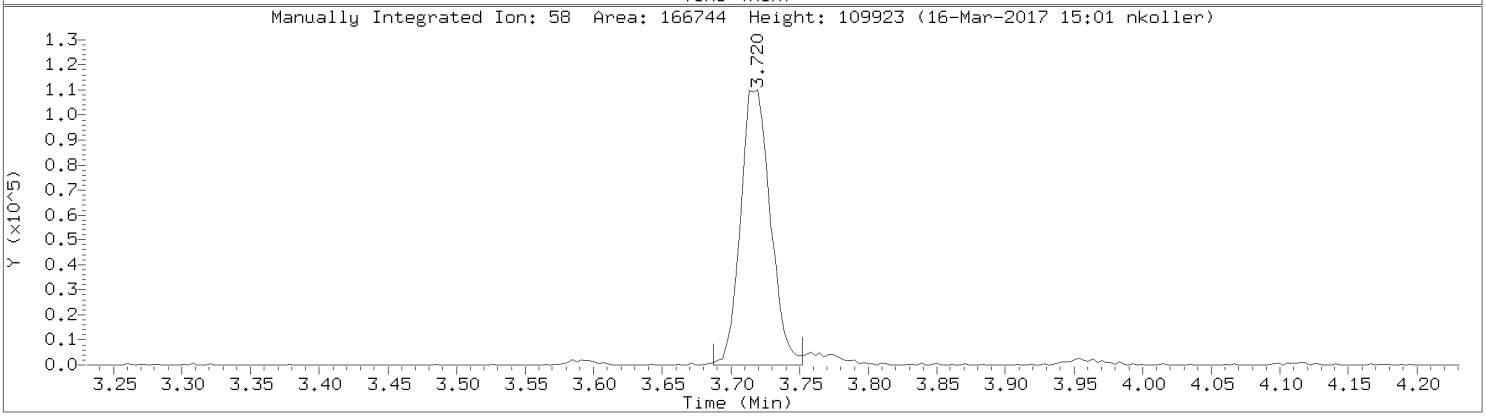
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07505.D
Injection Date: 16-MAR-2017 10:42
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Acetone
CAS Number: 67-64-1









Data File: \\192.168.10.12\chem\10airB.i\031617.b\07506.D
Report Date: 20-Mar-2017 12:25

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\031617.b\07506.D
Lab Smp Id: cal5
Inj Date : 16-MAR-2017 11:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Meth Date : 20-Mar-2017 12:18 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.915	(0.525)	549228	10.0000	10.2
2	1,1-Difluoroethane	65	3.021	3.005	(0.538)	469160	10.0000	10.1
3	Chlorodifluoromethane	67	3.028	3.005	(0.539)	202017	10.0000	9.00(Q)
4	Propylene	41	3.031	2.999	(0.540)	626600	10.0000	8.47
5	Dichlorodifluoromethane	85	3.063	3.041	(0.545)	2044054	10.0000	10.4
6	Chloromethane	50	3.163	3.144	(0.563)	1019663	10.0000	9.25
7	Dichlorotetrafluoroethane	85	3.172	3.160	(0.565)	1881667	10.0000	8.79
8	Vinyl chloride	62	3.240	3.224	(0.577)	773566	10.0000	9.13
9	1,3-Butadiene	54	3.285	3.272	(0.585)	624874	10.0000	9.12
10	Bromomethane	94	3.417	3.410	(0.608)	552125	10.0000	9.38
11	Chloroethane	64	3.475	3.465	(0.619)	316454	10.0000	9.13
12	Ethanol	45	3.552	3.552	(0.632)	1337106	50.0000	46.7
13	Vinyl Bromide	106	3.587	3.581	(0.639)	529875	10.0000	9.32
14	Isopentane	43	3.606	3.600	(0.642)	796060	10.0000	10.4(H)
15	Freon 123	83	3.606	3.607	(0.642)	615687	10.0000	4.91
16	Trichlorofluoromethane	101	3.680	3.674	(0.655)	1395852	10.0000	9.03
17	Acrolein	56	3.690	3.690	(0.657)	649790	25.0000	25.0
18	Acetone	43	3.725	3.729	(0.663)	5296807	50.0000	42.9
19	Isopropyl Alcohol	45	3.770	3.777	(0.671)	5904175	50.0000	50.3
20	1,1-Dichloroethene	61	3.915	3.912	(0.697)	1032556	10.0000	9.23
21	Acrylonitrile	53	3.934	3.934	(0.701)	1449073	25.0000	24.9
22	Freon 113	101	3.954	3.951	(0.704)	1044785	10.0000	8.87
23	Methyl Acetate	43	3.963	3.967	(0.706)	1696416	10.0000	9.08

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07506.D
Report Date: 20-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.960	3.967	(0.705)	3295053	25.0000	23.6
	25 Methylene chloride	49	4.008	4.005	(0.714)	4134721	50.0000	40.7
	26 Allyl Chloride	76	4.024	4.021	(0.717)	523309	25.0000	24.3(Q)
	27 Carbon Disulfide	76	4.131	4.127	(0.736)	1231594	10.0000	9.79(H)
	28 trans-1,2-dichloroethene	96	4.282	4.282	(0.762)	521970	10.0000	9.61
	29 Methyl Tert Butyl Ether	73	4.311	4.307	(0.768)	3239468	25.0000	23.2
	30 Vinyl Acetate	43	4.394	4.398	(0.782)	1897378	10.0000	10.2
	31 1,1-Dichloroethane	63	4.413	4.417	(0.786)	1096538	10.0000	9.31
$	32 Hexane-d14(S)	66	4.494	4.491	(0.800)	2584394	10.0000	9.87
	33 Methyl Ethyl Ketone	72	4.558	4.561	(0.812)	288648	10.0000	10.1(Q)
	34 n-Hexane	57	4.590	4.584	(0.817)	1380174	10.0000	10.5(Q)
	35 Di-isopropyl Ether	45	4.606	4.610	(0.820)	2933163	10.0000	10.8
	36 Ethyl Acetate	43	4.722	4.722	(0.841)	1914784	10.0000	10.4
	37 cis-1,2-Dichloroethene	96	4.729	4.732	(0.842)	722764	10.0000	10.8
	38 Ethyl Tert-Butyl Ether	59	4.835	4.832	(0.861)	6207947	25.0000	25.1
	39 Chloroform	83	4.844	4.851	(0.863)	1422380	10.0000	10.2
	40 Tetrahydrofuran	42	4.999	4.996	(0.890)	980420	10.0000	10.0
	41 1,1,1-Trichloroethane	97	5.233	5.237	(0.932)	1628811	10.0000	9.96
	42 1,2-Dichloroethane	62	5.240	5.246	(0.933)	1296816	10.0000	9.59
	43 Benzene	78	5.468	5.471	(0.974)	2183628	10.0000	9.92
	44 Carbon tetrachloride	117	5.487	5.491	(0.977)	1624789	10.0000	10.6
	45 Cyclohexane	56	5.491	5.494	(0.978)	1332453	10.0000	10.0
	46 Tert Amyl Methyl Ether	73	5.606	5.610	(0.998)	1899489	10.0000	10.1
*	47 1,4-Difluorobenzene	114	5.616	5.619	(1.000)	7641086	10.0000	
	48 2,2,4-Trimethylpentane	57	5.774	5.777	(1.028)	9866285	25.0000	23.9
	49 Heptane	43	5.893	5.896	(1.049)	1583827	10.0000	10.2
	50 1,2-Dichloropropane	63	5.970	5.973	(1.063)	908333	10.0000	10.1
	51 Trichloroethene	130	5.992	5.992	(1.067)	1025718	10.0000	9.97
	52 Methyl methacrylate	69	6.047	6.050	(1.077)	766730	10.0000	10.7
	53 1,4-Dioxane	88	6.069	6.073	(1.081)	506531	10.0000	10.3
	54 Bromodichloromethane	83	6.089	6.092	(1.084)	1645728	10.0000	10.6
	55 Methylcyclohexane	98	6.436	6.439	(1.146)	608107	10.0000	10.3
	56 Methyl Isobutyl Ketone	43	6.529	6.536	(1.163)	5481575	25.0000	26.8
	57 cis-1,3-Dichloropropene	75	6.590	6.590	(1.173)	1283051	10.0000	11.4
	58 trans-1,3-Dichloropropene	75	6.986	6.989	(1.244)	1227333	10.0000	10.2
$	59 Toluene-d8 (S)	98	7.076	7.082	(1.260)	6992140	10.0000	9.94
	60 1,1,2-Trichloroethane	97	7.143	7.150	(1.272)	898785	10.0000	10.2
	61 Toluene	91	7.153	7.159	(1.274)	2585045	10.0000	10.1
	62 Methyl Butyl Ketone	43	7.372	7.378	(0.853)	4988064	25.0000	25.1
	63 n-Octane	43	7.584	7.587	(0.877)	2161101	10.0000	11.3
	64 Dibromochloromethane	129	7.680	7.687	(0.888)	1699950	10.0000	12.3
	65 1,2-Dibromoethane	107	7.909	7.912	(0.915)	1511534	10.0000	11.3
	66 Tetrachloroethene	166	7.986	7.989	(0.924)	1249728	10.0000	10.6
*	67 Chlorobenzene - d5	117	8.645	8.648	(1.000)	5205948	10.0000	
	68 Chlorobenzene	112	8.687	8.690	(1.005)	2074949	10.0000	10.9
	69 Ethyl Benzene	91	8.934	8.941	(1.033)	3506110	10.0000	11.6
	70 m&p-Xylene	91	9.082	9.089	(1.051)	5292486	20.0000	20.5
	71 n-Nonane	43	9.468	9.471	(1.095)	1975821	10.0000	12.3
	72 Bromoform	173	9.481	9.484	(1.097)	1308248	10.0000	10.1
	73 Styrene	104	9.507	9.513	(1.100)	2003651	10.0000	10.1
	74 o-Xylene	91	9.577	9.584	(1.108)	2713134	10.0000	11.7
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.831	(1.137)	1607918	10.0000	10.1
	76 Isopropylbenzene	105	10.159	10.166	(1.175)	3491144	10.0000	11.3
	77 N-Propylbenzene	91	10.738	10.741	(1.242)	4230588	10.0000	10.1

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07506.D
Report Date: 20-Mar-2017 12:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.915	(1.262)	3537813	10.0000	10.2
79	1,3,5-Trimethylbenzene	105	11.002	11.005	(1.273)	2915580	10.0000	10.2
80	n-Decane	57	11.378	11.384	(2.026)	2001104	10.0000	13.1
81	Tert-Butyl Benzene	119	11.494	11.500	(1.329)	2957365	10.0000	10.2
82	1,2,4-Trimethylbenzene	105	11.510	11.516	(1.331)	2664072	10.0000	10.2
83	1,3-Dichlorobenzene	146	11.796	11.799	(1.364)	1608646	10.0000	10.1
84	Sec- Butylbenzene	105	11.805	11.812	(1.366)	3842670	10.0000	10.3
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.857	(1.371)	2652092	10.0000	10.6(M)
86	Benzyl Chloride	91	11.863	11.870	(1.372)	1582891	10.0000	9.95
87	1,4-Dichlorobenzene	146	11.889	11.896	(1.375)	1579256	10.0000	10.1
88	p-Isopropyltoluene	119	11.986	11.992	(1.386)	3155394	10.0000	11.3
89	1,2,3-Trimethylbenzene	105	12.034	12.040	(1.392)	2555897	10.0000	10.1
90	1,2-Dichlorobenzene	146	12.281	12.285	(1.421)	1468009	10.0000	10.4
91	N-Butylbenzene	91	12.461	12.465	(1.441)	2633143	10.0000	10.0
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.493)	541546	10.0000	9.81
93	1,2,4-Trichlorobenzene	180	14.030	14.034	(1.623)	462690	10.0000	9.97
94	Naphthalene	128	14.159	14.166	(1.638)	1406933	10.0000	9.09
95	Hexachlorobutadiene	225	14.407	14.413	(1.666)	581795	10.0000	8.87

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07506.D
Report Date: 20-Mar-2017 12:25

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07506.D
Lab Smp Id: cal5
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Misc Info:

Calibration Date: 16-MAR-2017
Calibration Time: 11:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

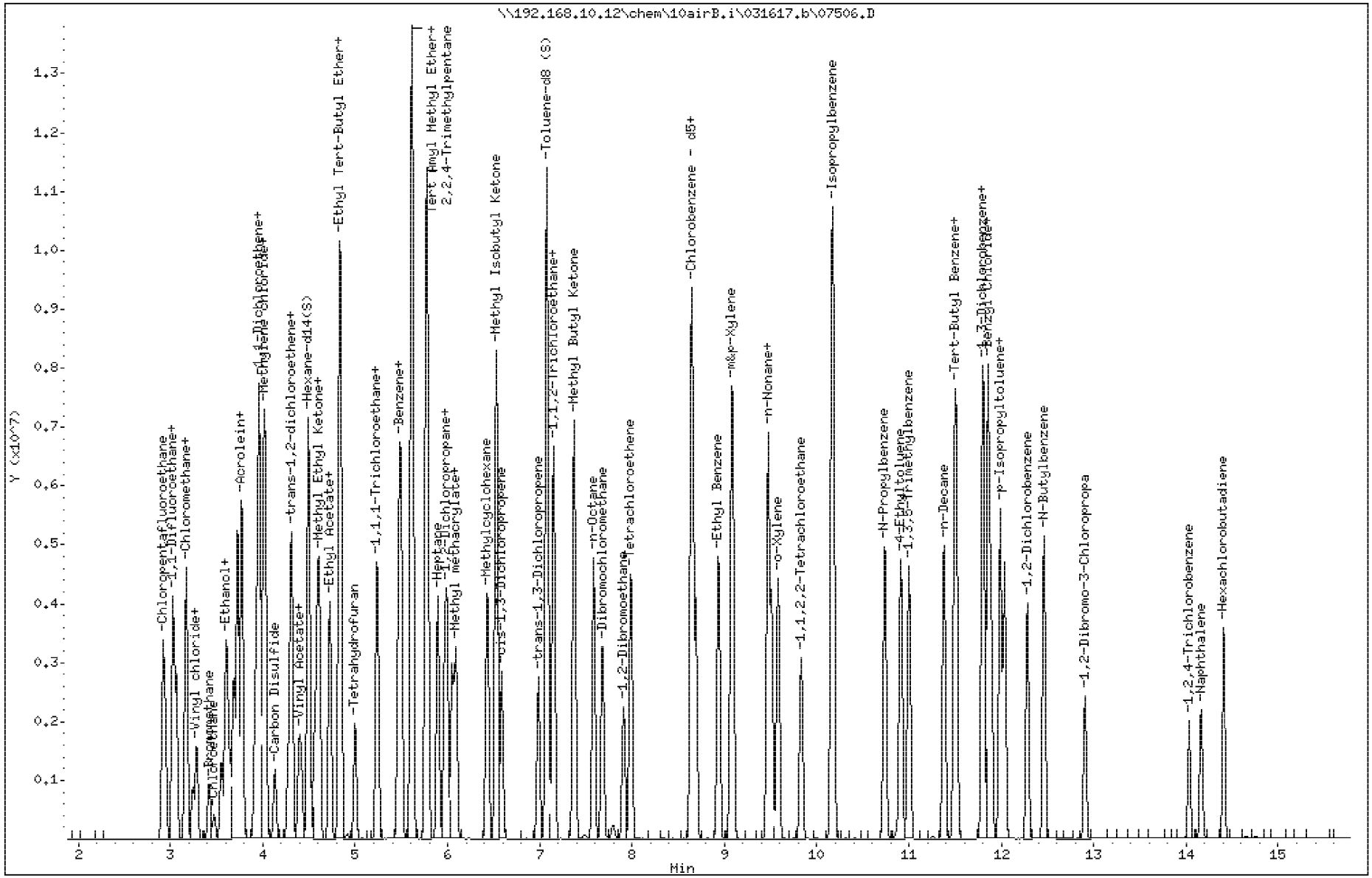
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	7641086	0.00
67 Chlorobenzene - d	5205948	3123569	7288327	5205948	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.62	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

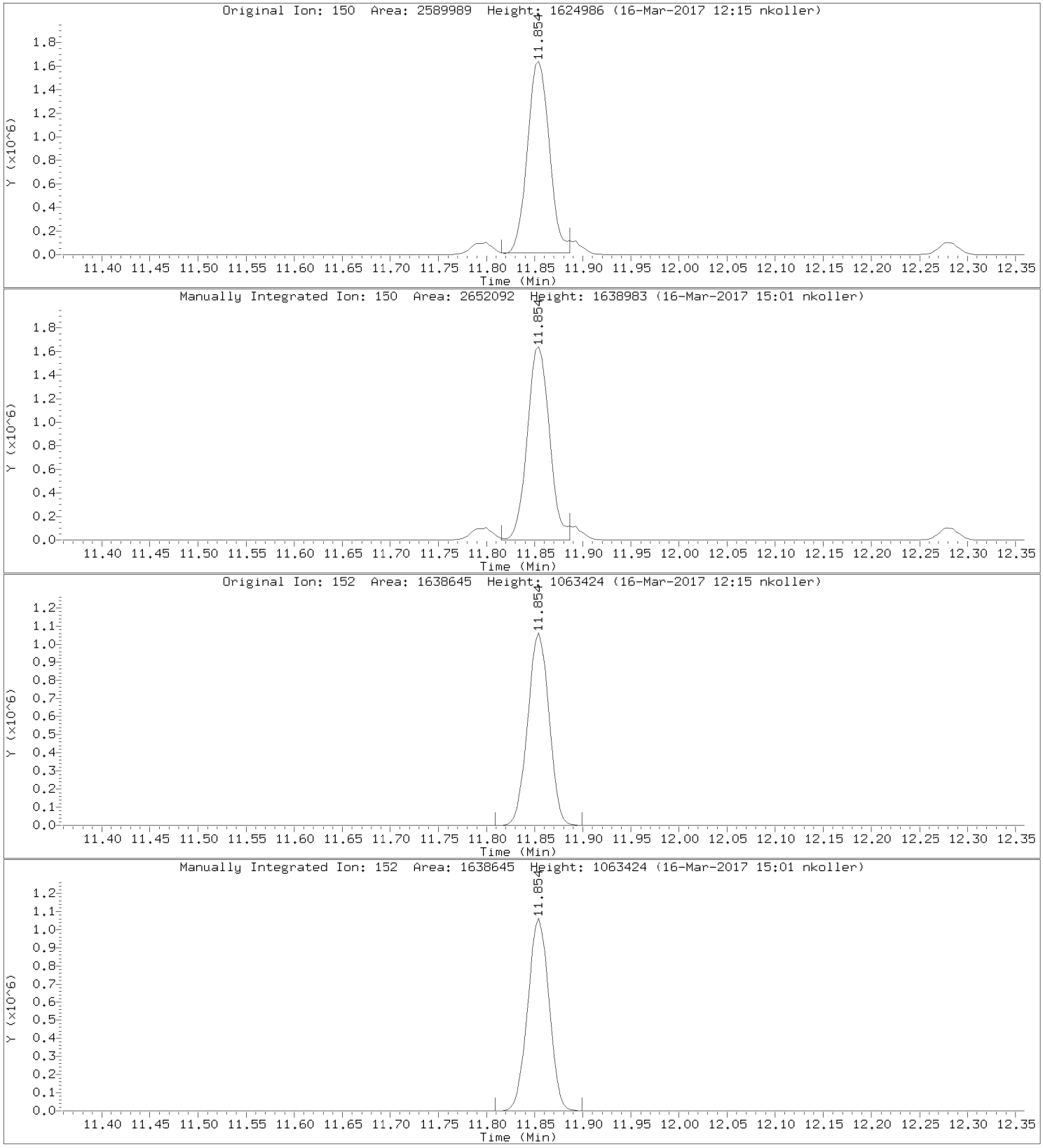
Data File: \\192.168.10.12\chem\10airB.i\031617.b\07506.D
Date : 16-MAR-2017 11:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\031617.b/07506.D
Injection Date: 16-MAR-2017 11:10
Instrument: 10airB.i
Lab Sample ID: cal5

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\031617.b\07507.D
Report Date: 20-Mar-2017 12:26

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\031617.b\07507.D
Lab Smp Id: cal6
Inj Date : 16-MAR-2017 11:39
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Meth Date : 20-Mar-2017 12:18 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.918	2.915	(0.519)	601205	20.0000	13.0
2	1,1-Difluoroethane	65	3.002	3.005	(0.534)	908718	20.0000	20.3
3	Chlorodifluoromethane	67	3.009	3.005	(0.535)	386330	20.0000	17.6(Q)
4	Propylene	41	3.002	2.999	(0.534)	1222008	20.0000	16.9
5	Dichlorodifluoromethane	85	3.044	3.041	(0.542)	3887214	20.0000	20.4
6	Chloromethane	50	3.144	3.144	(0.559)	1977158	20.0000	18.4
7	Dichlorotetrafluoroethane	85	3.160	3.160	(0.562)	3572579	20.0000	17.1
8	Vinyl chloride	62	3.227	3.224	(0.574)	1542283	20.0000	18.6
9	1,3-Butadiene	54	3.272	3.272	(0.582)	1207862	20.0000	18.0
10	Bromomethane	94	3.410	3.410	(0.607)	1022982	20.0000	17.8
11	Chloroethane	64	3.465	3.465	(0.617)	603484	20.0000	17.8
12	Ethanol	45	3.555	3.552	(0.633)	2587928	100.000	92.5
13	Vinyl Bromide	106	3.581	3.581	(0.637)	957783	20.0000	17.2
14	Isopentane	43	3.600	3.600	(0.641)	1532937	20.0000	20.7(H)
15	Freon 123	83	3.607	3.607	(0.642)	1004766	20.0000	8.20
16	Trichlorofluoromethane	101	3.677	3.674	(0.654)	2594122	20.0000	17.2
17	Acrolein	56	3.690	3.690	(0.657)	1195035	50.0000	47.0
18	Acetone	43	3.729	3.729	(0.664)	9476416	100.000	78.5
19	Isopropyl Alcohol	45	3.777	3.777	(0.672)	10228235	100.000	99.6
20	1,1-Dichloroethene	61	3.912	3.912	(0.696)	1963546	20.0000	18.0
21	Acrylonitrile	53	3.938	3.934	(0.701)	2559581	50.0000	45.0
22	Freon 113	101	3.951	3.951	(0.703)	1889194	20.0000	16.4
23	Methyl Acetate	43	3.970	3.967	(0.706)	3039235	20.0000	16.6

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07507.D
Report Date: 20-Mar-2017 12:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.967	3.967	(0.706)	5815937	50.0000	42.6
	25 Methylene chloride	49	4.008	4.005	(0.713)	7346566	100.000	74.0
	26 Allyl Chloride	76	4.025	4.021	(0.716)	941857	50.0000	44.8
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	2351967	20.0000	19.1(M)
	28 trans-1,2-dichloroethene	96	4.282	4.282	(0.762)	966653	20.0000	18.2
	29 Methyl Tert Butyl Ether	73	4.307	4.307	(0.767)	5991909	50.0000	43.8
	30 Vinyl Acetate	43	4.398	4.398	(0.783)	3636241	20.0000	20.0
	31 1,1-Dichloroethane	63	4.420	4.417	(0.787)	2064672	20.0000	17.9
$	32 Hexane-d14(S)	66	4.491	4.491	(0.799)	2472142	10.0000	9.65
	33 Methyl Ethyl Ketone	72	4.561	4.561	(0.812)	471425	20.0000	16.9(Q)
	34 n-Hexane	57	4.587	4.584	(0.816)	2175696	20.0000	17.0(QM)
	35 Di-isopropyl Ether	45	4.613	4.610	(0.821)	4973222	20.0000	18.7
	36 Ethyl Acetate	43	4.725	4.722	(0.841)	3696409	20.0000	20.5
	37 cis-1,2-Dichloroethene	96	4.732	4.732	(0.842)	1348553	20.0000	20.7
	38 Ethyl Tert-Butyl Ether	59	4.835	4.832	(0.860)	10409179	50.0000	43.1
	39 Chloroform	83	4.848	4.851	(0.863)	2450130	20.0000	18.0
	40 Tetrahydrofuran	42	4.999	4.996	(0.890)	1969008	20.0000	20.6
	41 1,1,1-Trichloroethane	97	5.237	5.237	(0.932)	3001427	20.0000	18.8
	42 1,2-Dichloroethane	62	5.246	5.246	(0.934)	2369833	20.0000	17.9
	43 Benzene	78	5.475	5.471	(0.974)	4023487	20.0000	18.7
	44 Carbon tetrachloride	117	5.491	5.491	(0.977)	2954515	20.0000	19.6
	45 Cyclohexane	56	5.494	5.494	(0.978)	2403651	20.0000	18.5
	46 Tert Amyl Methyl Ether	73	5.610	5.610	(0.998)	3619267	20.0000	20.2
*	47 1,4-Difluorobenzene	114	5.619	5.619	(1.000)	7471710	10.0000	
	48 2,2,4-Trimethylpentane	57	5.777	5.777	(1.028)	15709389	50.0000	38.9
	49 Heptane	43	5.896	5.896	(1.049)	3021267	20.0000	19.9
	50 1,2-Dichloropropane	63	5.973	5.973	(1.063)	1695127	20.0000	19.3
	51 Trichloroethene	130	5.992	5.992	(1.066)	1953939	20.0000	19.4
	52 Methyl methacrylate	69	6.050	6.050	(1.077)	1455213	20.0000	20.8
	53 1,4-Dioxane	88	6.069	6.073	(1.080)	977533	20.0000	20.4
	54 Bromodichloromethane	83	6.092	6.092	(1.084)	3018414	20.0000	19.8
	55 Methylcyclohexane	98	6.436	6.439	(1.145)	1191655	20.0000	20.7
	56 Methyl Isobutyl Ketone	43	6.536	6.536	(1.163)	9520103	50.0000	47.6
	57 cis-1,3-Dichloropropene	75	6.594	6.590	(1.173)	2470404	20.0000	22.4
	58 trans-1,3-Dichloropropene	75	6.989	6.989	(1.244)	2367554	20.0000	20.0
$	59 Toluene-d8 (S)	98	7.079	7.082	(1.260)	7021489	10.0000	10.2
	60 1,1,2-Trichloroethane	97	7.150	7.150	(1.272)	1667739	20.0000	19.4
	61 Toluene	91	7.156	7.159	(1.273)	4809994	20.0000	19.2
	62 Methyl Butyl Ketone	43	7.375	7.378	(0.853)	8951590	50.0000	50.0
	63 n-Octane	43	7.587	7.587	(0.877)	4017070	20.0000	20.6
	64 Dibromochloromethane	129	7.684	7.687	(0.888)	3253033	20.0000	23.1
	65 1,2-Dibromoethane	107	7.912	7.912	(0.915)	2880498	20.0000	21.2
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	2436970	20.0000	20.2
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	5308592	10.0000	
	68 Chlorobenzene	112	8.690	8.690	(1.005)	4041278	20.0000	20.9
	69 Ethyl Benzene	91	8.938	8.941	(1.033)	6582680	20.0000	21.4
	70 m&p-Xylene	91	9.085	9.089	(1.051)	9330830	40.0000	39.4
	71 n-Nonane	43	9.471	9.471	(1.095)	3415381	20.0000	20.9
	72 Bromoform	173	9.484	9.484	(1.097)	2478644	20.0000	19.9
	73 Styrene	104	9.510	9.513	(1.100)	3761512	20.0000	19.9
	74 o-Xylene	91	9.581	9.584	(1.108)	4967602	20.0000	21.0
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	3048140	20.0000	19.9
	76 Isopropylbenzene	105	10.163	10.166	(1.175)	6428575	20.0000	20.4
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	7783443	20.0000	19.9

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07507.D
Report Date: 20-Mar-2017 12:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.915	(1.262)	6573456	20.0000	19.8
79	1,3,5-Trimethylbenzene	105	11.002	11.005	(1.272)	5428846	20.0000	19.9
80	n-Decane	57	11.381	11.384	(2.025)	3850377	20.0000	25.7
81	Tert-Butyl Benzene	119	11.497	11.500	(1.329)	5405075	20.0000	19.8
82	1,2,4-Trimethylbenzene	105	11.516	11.516	(1.332)	4817484	20.0000	19.8
83	1,3-Dichlorobenzene	146	11.796	11.799	(1.364)	3080142	20.0000	19.9
84	Sec- Butylbenzene	105	11.809	11.812	(1.365)	6811629	20.0000	19.7
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.857	(1.371)	2784903	10.0000	10.9(M)
86	Benzyl Chloride	91	11.867	11.870	(1.372)	3338294	20.0000	20.3
87	1,4-Dichlorobenzene	146	11.892	11.896	(1.375)	3070407	20.0000	19.9
88	p-Isopropyltoluene	119	11.989	11.992	(1.386)	5870404	20.0000	20.8
89	1,2,3-Trimethylbenzene	105	12.037	12.040	(1.392)	4796475	20.0000	20.0
90	1,2-Dichlorobenzene	146	12.281	12.285	(1.420)	2931784	20.0000	20.4
91	N-Butylbenzene	91	12.462	12.465	(1.441)	5019857	20.0000	20.0
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.492)	1127640	20.0000	19.8
93	1,2,4-Trichlorobenzene	180	14.031	14.034	(1.622)	1088818	20.0000	20.0
94	Naphthalene	128	14.159	14.166	(1.637)	3147835	20.0000	19.4
95	Hexachlorobutadiene	225	14.407	14.413	(1.666)	1154707	20.0000	17.3

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07507.D
Report Date: 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07507.D
Lab Smp Id: cal6
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Misc Info:

Calibration Date: 16-MAR-2017
Calibration Time: 11:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

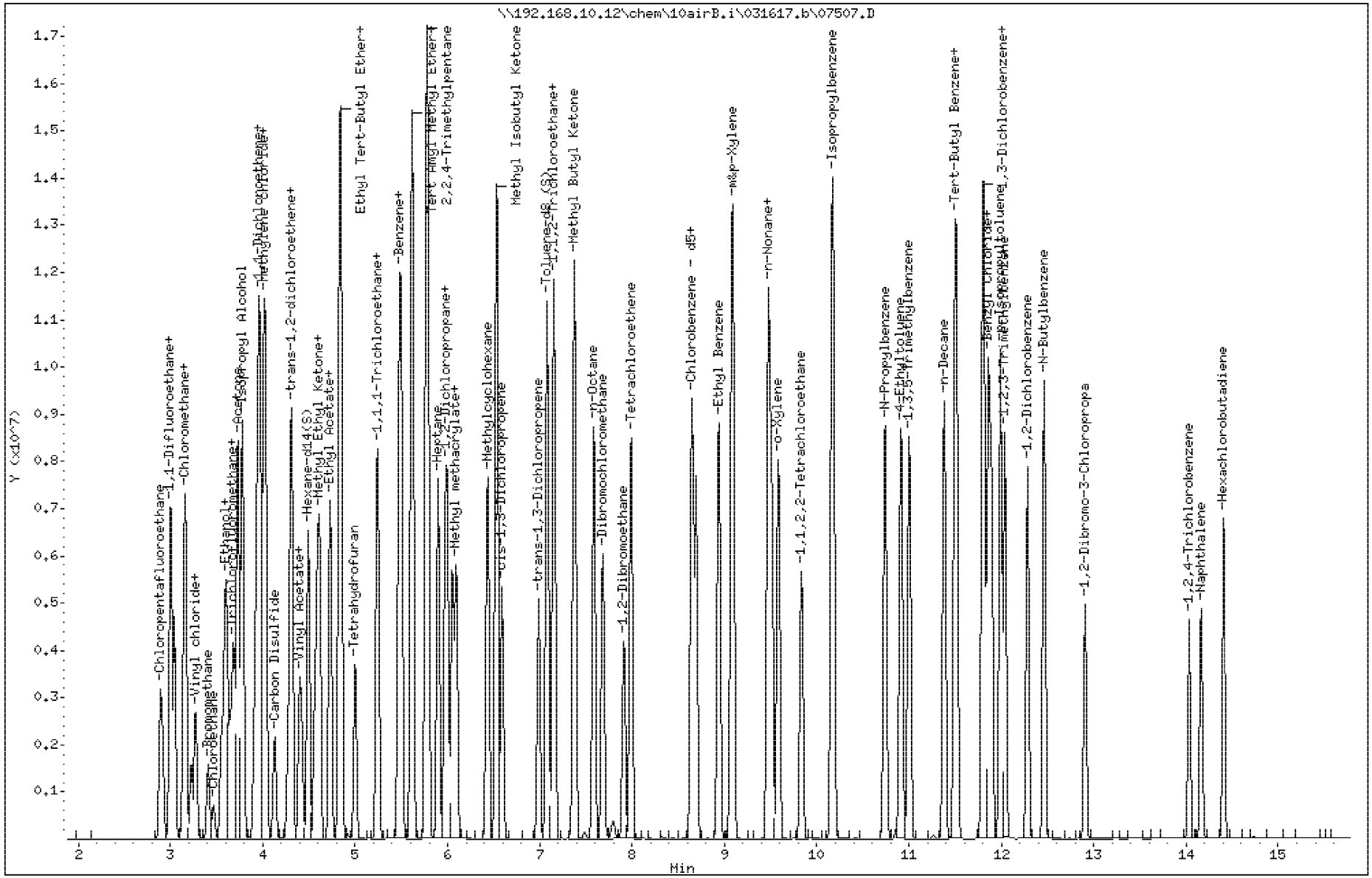
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	7471710	-2.22
67 Chlorobenzene - d	5205948	3123569	7288327	5308592	1.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.62	0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

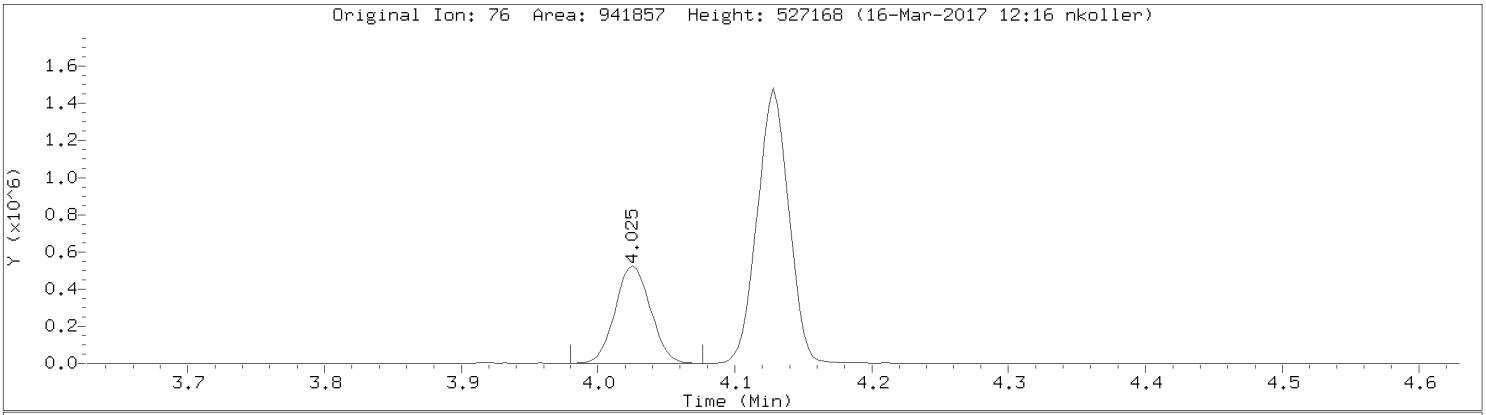
Data File: \\192.168.10.12\chem\10airB.i\031617.b\07507.D
Date : 16-MAR-2017 11:39
Client ID:
Sample Info:

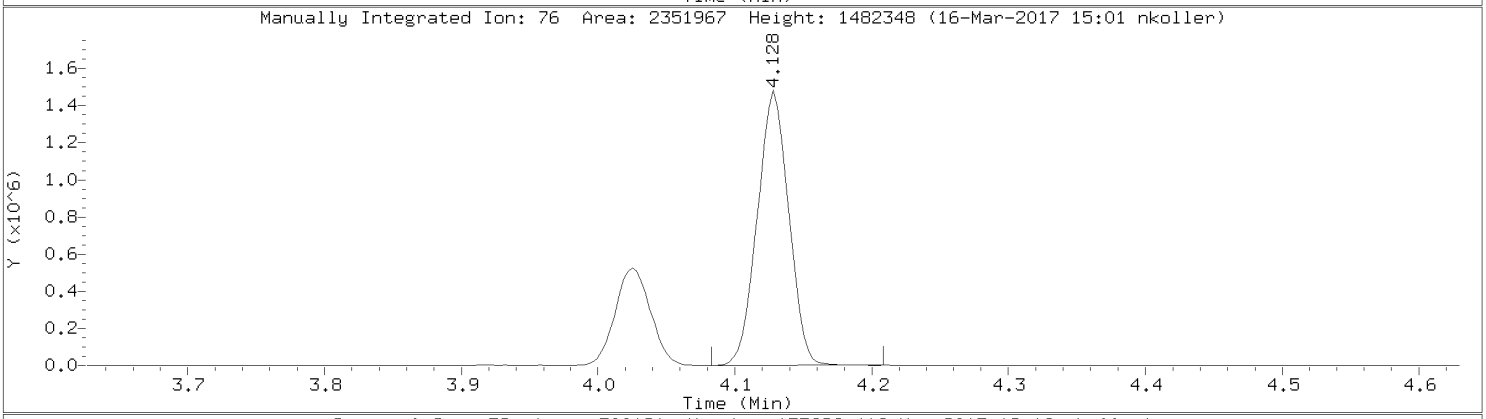
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

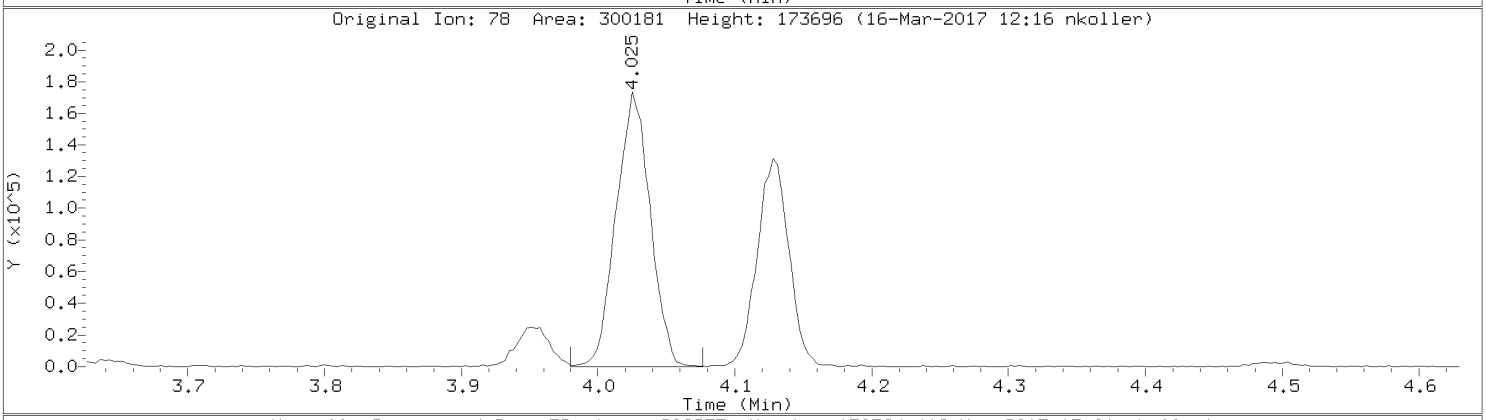


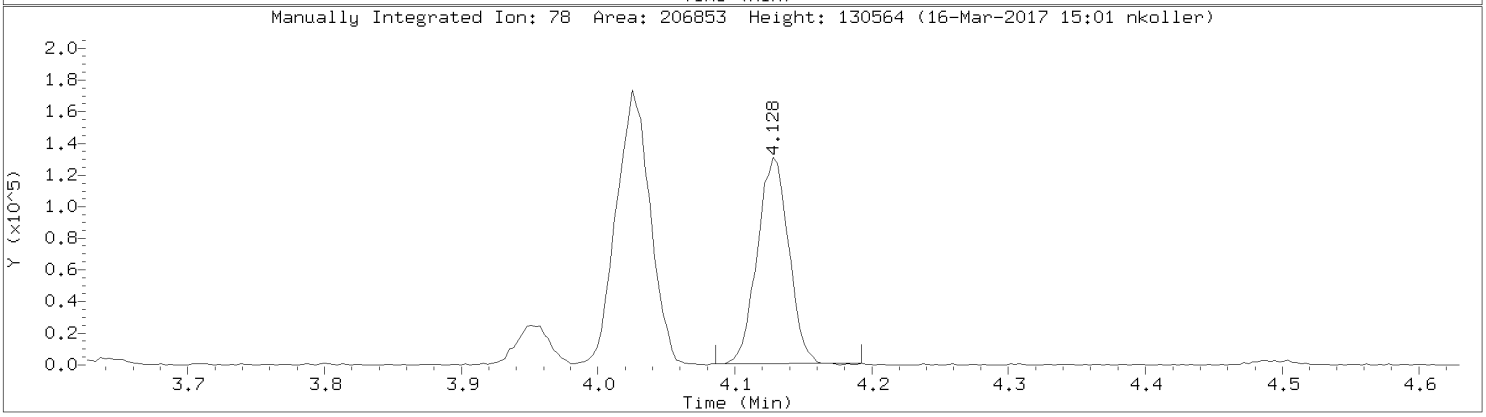
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07507.D
Injection Date: 16-MAR-2017 11:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: Carbon Disulfide
CAS Number: 75-15-0



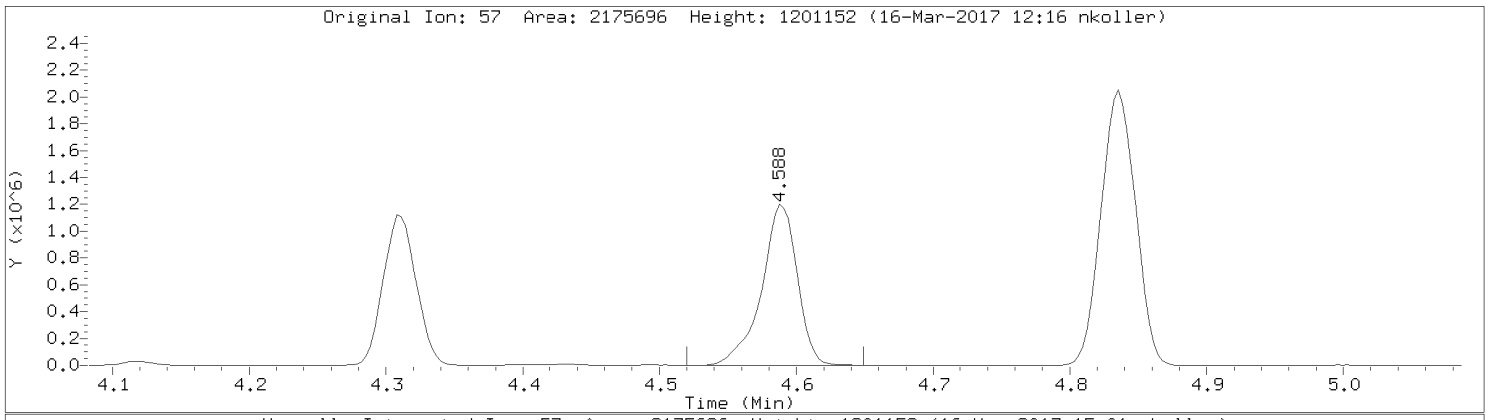


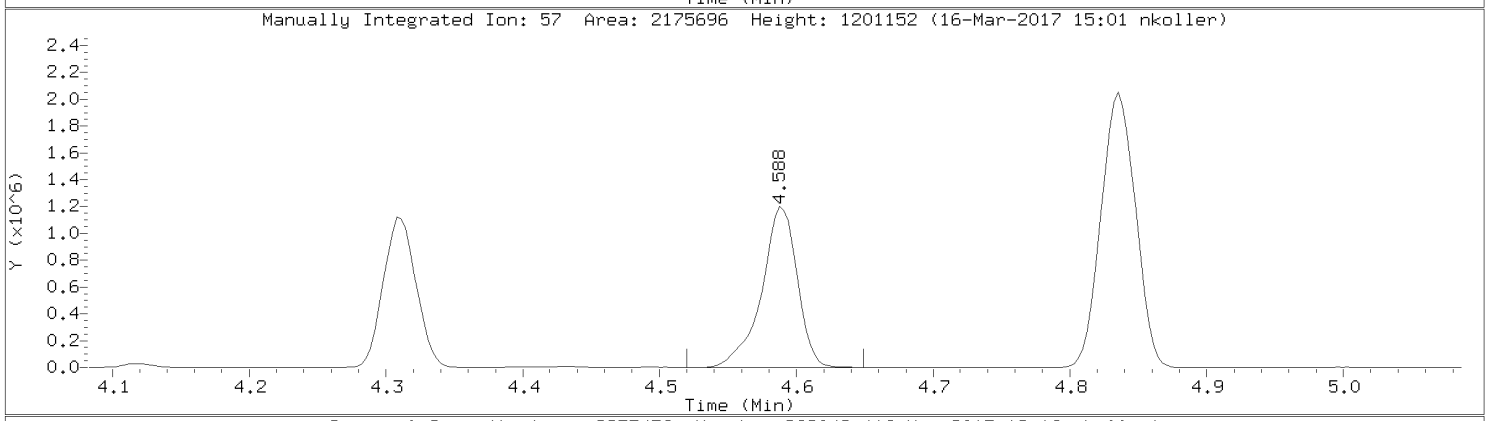


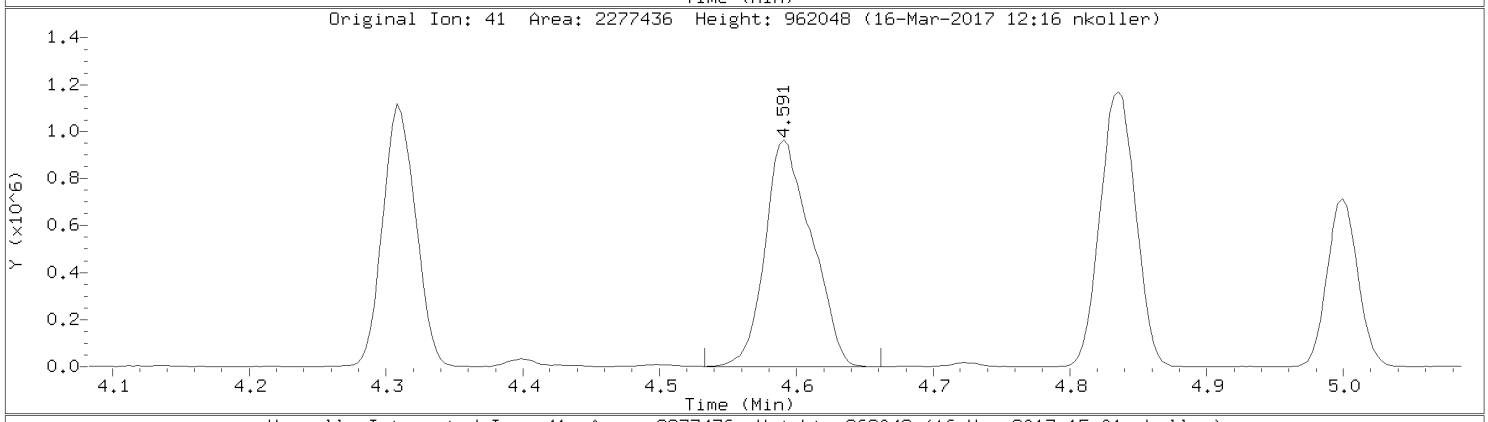


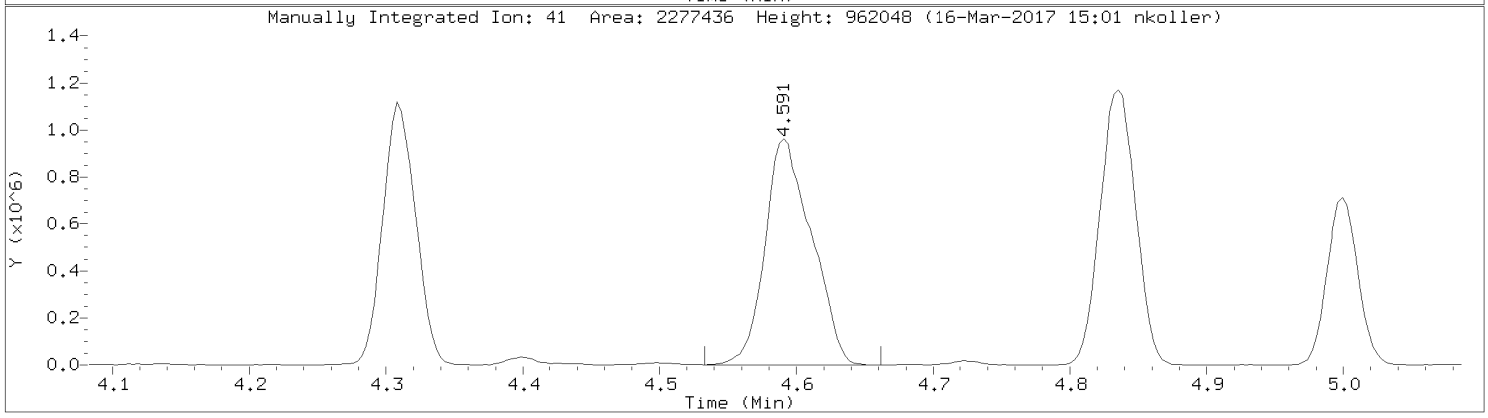
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07507.D
Injection Date: 16-MAR-2017 11:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: n-Hexane
CAS Number: 110-54-3

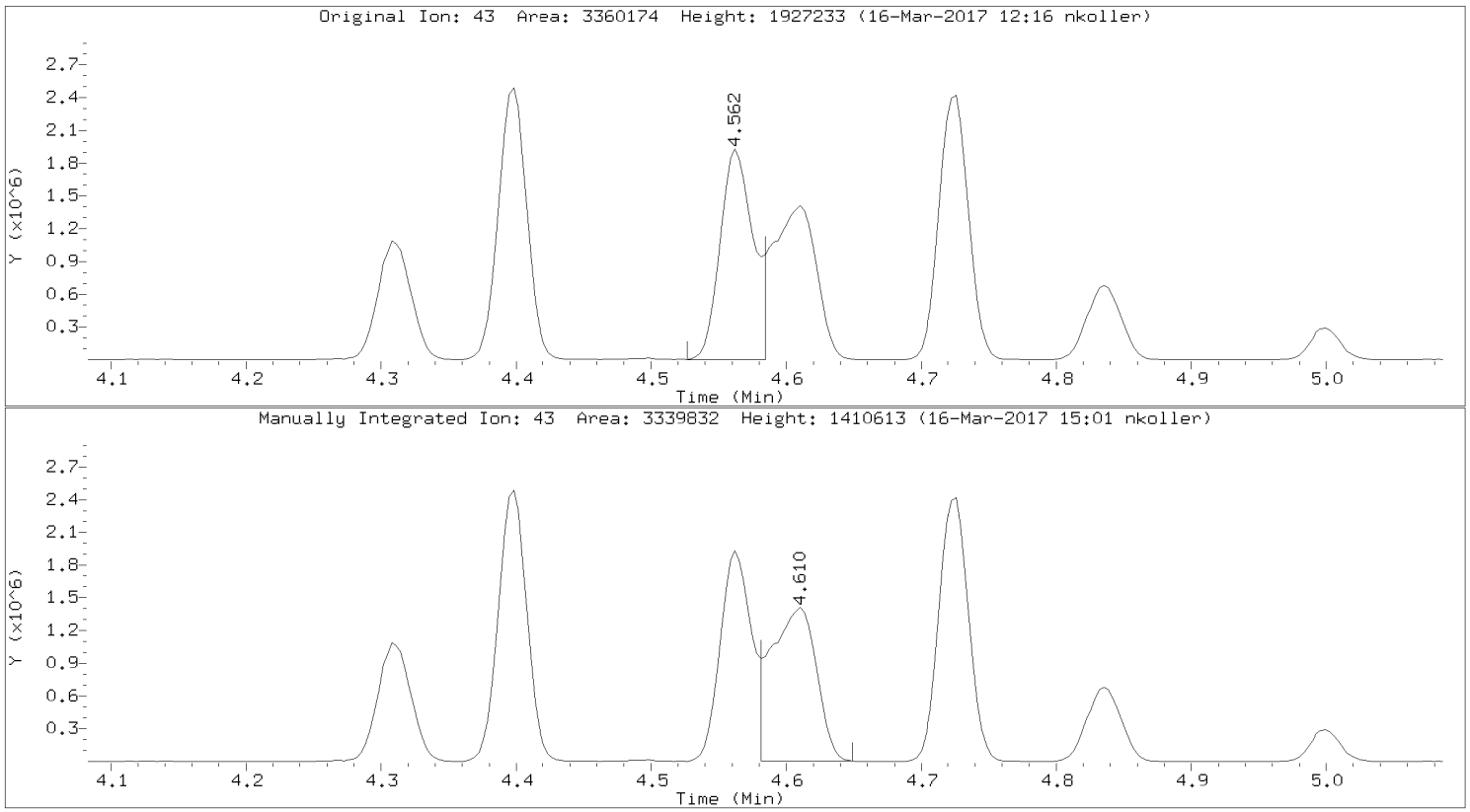






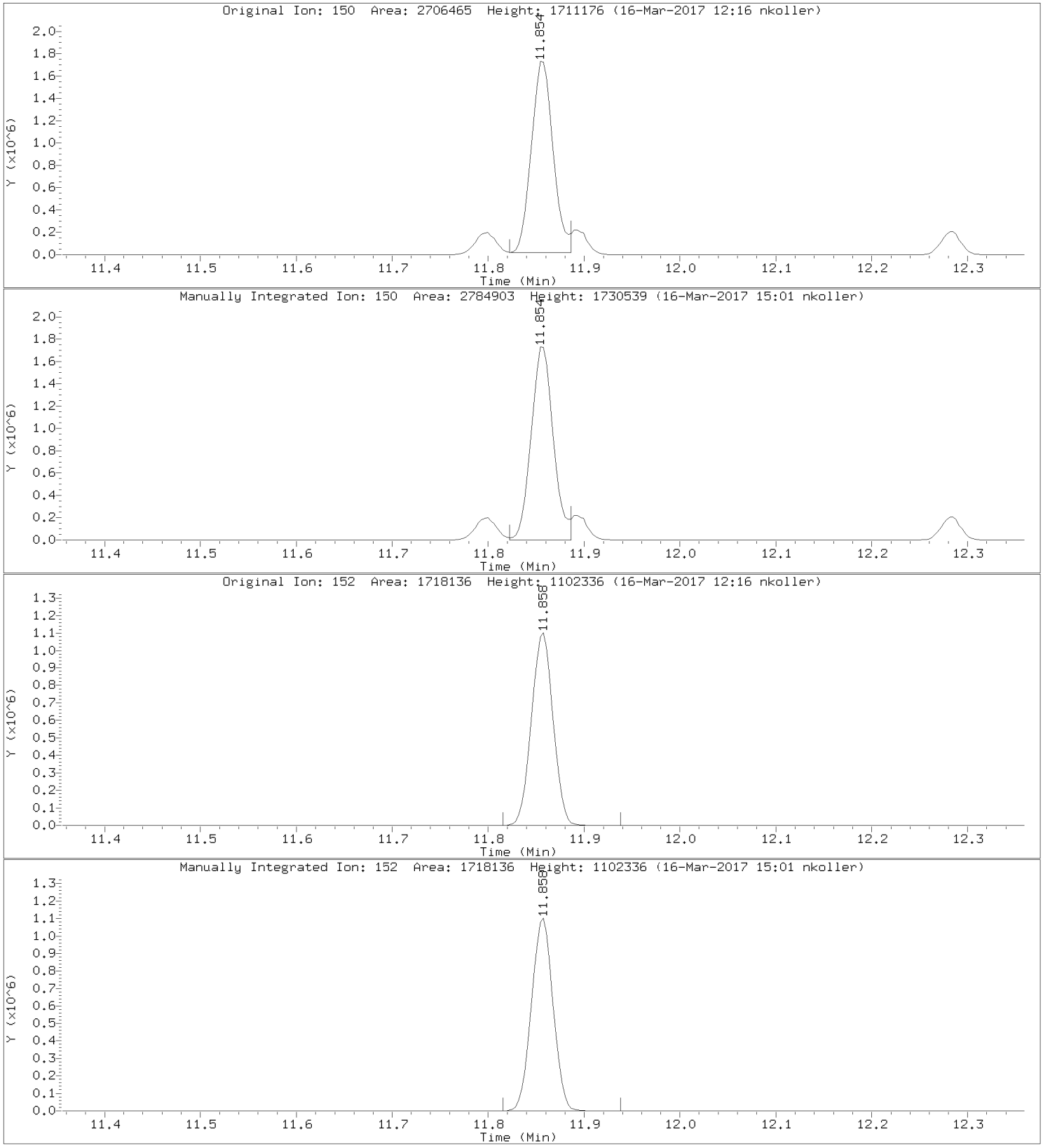


Data File: \\192.168.10.12\chem\10airB.i\031617.b/07507.D
Injection Date: 16-MAR-2017 11:39
Instrument: 10airB.i
Lab Sample ID: cal6



Data File: \\192.168.10.12\chem\10airB.i\031617.b/07507.D
Injection Date: 16-MAR-2017 11:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\031617.b\07508.D
Report Date: 20-Mar-2017 12:26

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\031617.b\07508.D
Lab Smp Id: cal7
Inj Date : 16-MAR-2017 12:08
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Meth Date : 20-Mar-2017 12:18 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.915	2.915	(0.519)	864568	30.0000	(a)
2	1,1-Difluoroethane	65	3.005	3.005	(0.535)	1304730	30.0000	29.8
3	Chlorodifluoromethane	67	3.005	3.005	(0.535)	560488	30.0000	26.0
4	Propylene	41	2.999	2.999	(0.534)	1756042	30.0000	24.7
5	Dichlorodifluoromethane	85	3.041	3.041	(0.541)	5503000	30.0000	29.6
6	Chloromethane	50	3.144	3.144	(0.559)	2840505	30.0000	26.9
7	Dichlorotetrafluoroethane	85	3.160	3.160	(0.562)	5078840	30.0000	24.7
8	Vinyl chloride	62	3.224	3.224	(0.574)	2243315	30.0000	27.6
9	1,3-Butadiene	54	3.272	3.272	(0.582)	1789708	30.0000	27.2
10	Bromomethane	94	3.410	3.410	(0.607)	1509315	30.0000	26.7
11	Chloroethane	64	3.465	3.465	(0.617)	890200	30.0000	26.7
12	Ethanol	45	3.552	3.552	(0.632)	3667676	150.000	134
13	Vinyl Bromide	106	3.581	3.581	(0.637)	1376116	30.0000	25.2
14	Isopentane	43	3.600	3.600	(0.641)	2136793	30.0000	29.4
15	Freon 123	83	3.607	3.607	(0.642)	1786687	30.0000	14.8
16	Trichlorofluoromethane	101	3.674	3.674	(0.654)	3732439	30.0000	25.1
17	Acrolein	56	3.690	3.690	(0.657)	1699027	75.0000	68.1
18	Acetone	43	3.729	3.729	(0.664)	12308337	150.000	104
19	Isopropyl Alcohol	45	3.777	3.777	(0.672)	13311903	150.000	150(A)
20	1,1-Dichloroethene	61	3.912	3.912	(0.696)	2844720	30.0000	26.5
21	Acrylonitrile	53	3.934	3.934	(0.700)	3553403	75.0000	63.6
22	Freon 113	101	3.951	3.951	(0.703)	2663381	30.0000	23.6
23	Methyl Acetate	43	3.967	3.967	(0.706)	4228439	30.0000	23.6

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07508.D
Report Date: 20-Mar-2017 12:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.967	3.967	(0.706)	7914634	75.0000	59.1
	25 Methylene chloride	49	4.005	4.005	(0.713)	9980878	150.000	102
	26 Allyl Chloride	76	4.021	4.021	(0.716)	1328108	75.0000	64.3(H)
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	3448363	30.0000	28.6
	28 trans-1,2-dichloroethene	96	4.282	4.282	(0.762)	1415115	30.0000	27.2
	29 Methyl Tert Butyl Ether	73	4.307	4.307	(0.767)	8554789	75.0000	63.7
	30 Vinyl Acetate	43	4.398	4.398	(0.783)	5292461	30.0000	29.7
	31 1,1-Dichloroethane	63	4.417	4.417	(0.786)	3047575	30.0000	27.0
$	32 Hexane-d14(S)	66	4.491	4.491	(0.799)	2479336	10.0000	9.86
	33 Methyl Ethyl Ketone	72	4.561	4.561	(0.812)	703635	30.0000	25.7
	34 n-Hexane	57	4.584	4.584	(0.816)	3088398	30.0000	24.6(M)
	35 Di-isopropyl Ether	45	4.610	4.610	(0.820)	6274890	30.0000	24.0
	36 Ethyl Acetate	43	4.722	4.722	(0.840)	4911155	30.0000	27.8
	37 cis-1,2-Dichloroethene	96	4.732	4.732	(0.842)	1792338	30.0000	28.0
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.860)	13248441	75.0000	55.8
	39 Chloroform	83	4.851	4.851	(0.863)	3302699	30.0000	24.7
	40 Tetrahydrofuran	42	4.996	4.996	(0.889)	2889967	30.0000	30.8(A)
	41 1,1,1-Trichloroethane	97	5.237	5.237	(0.932)	4221299	30.0000	26.9
	42 1,2-Dichloroethane	62	5.246	5.246	(0.934)	3335442	30.0000	25.7
	43 Benzene	78	5.471	5.471	(0.974)	5615369	30.0000	26.6
	44 Carbon tetrachloride	117	5.491	5.491	(0.977)	4117796	30.0000	27.9
	45 Cyclohexane	56	5.494	5.494	(0.978)	3277617	30.0000	25.7
	46 Tert Amyl Methyl Ether	73	5.610	5.610	(0.998)	5215626	30.0000	29.8
*	47 1,4-Difluorobenzene	114	5.619	5.619	(1.000)	7334933	10.0000	
	48 2,2,4-Trimethylpentane	57	5.777	5.777	(1.028)	19297793	75.0000	48.7
	49 Heptane	43	5.896	5.896	(1.049)	4349998	30.0000	29.2
	50 1,2-Dichloropropane	63	5.973	5.973	(1.063)	2389675	30.0000	27.7
	51 Trichloroethene	130	5.992	5.992	(1.066)	2839314	30.0000	28.7
	52 Methyl methacrylate	69	6.050	6.050	(1.077)	2062955	30.0000	30.1(A)
	53 1,4-Dioxane	88	6.073	6.073	(1.081)	1346433	30.0000	28.6
	54 Bromodichloromethane	83	6.092	6.092	(1.084)	4218832	30.0000	28.2
	55 Methylcyclohexane	98	6.439	6.439	(1.146)	1739224	30.0000	30.8(A)
	56 Methyl Isobutyl Ketone	43	6.536	6.536	(1.163)	12255754	75.0000	62.4
	57 cis-1,3-Dichloropropene	75	6.590	6.590	(1.173)	3519440	30.0000	32.5(A)
	58 trans-1,3-Dichloropropene	75	6.989	6.989	(1.244)	3473870	30.0000	29.9
$	59 Toluene-d8 (S)	98	7.082	7.082	(1.260)	7021617	10.0000	10.4
	60 1,1,2-Trichloroethane	97	7.150	7.150	(1.272)	2320759	30.0000	27.4
	61 Toluene	91	7.159	7.159	(1.274)	6630591	30.0000	27.0
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.853)	11828132	75.0000	77.3(A)
	63 n-Octane	43	7.587	7.587	(0.877)	5590710	30.0000	28.5
	64 Dibromochloromethane	129	7.687	7.687	(0.889)	4697392	30.0000	33.1(A)
	65 1,2-Dibromoethane	107	7.912	7.912	(0.915)	4117632	30.0000	30.1(A)
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	3558847	30.0000	29.4
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	5343622	10.0000	
	68 Chlorobenzene	112	8.690	8.690	(1.005)	5861462	30.0000	30.1(A)
	69 Ethyl Benzene	91	8.941	8.941	(1.034)	9181418	30.0000	29.7
	70 m&p-Xylene	91	9.089	9.089	(1.051)	12499517	60.0000	60.3(A)
	71 n-Nonane	43	9.471	9.471	(1.095)	4498600	30.0000	27.3
	72 Bromoform	173	9.484	9.484	(1.097)	3501253	30.0000	30.0(A)
	73 Styrene	104	9.513	9.513	(1.100)	5282471	30.0000	30.0(A)
	74 o-Xylene	91	9.584	9.584	(1.108)	6906613	30.0000	29.1
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	4356408	30.0000	30.0(A)
	76 Isopropylbenzene	105	10.166	10.166	(1.175)	8885782	30.0000	28.0
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	10741845	30.0000	30.1(A)

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07508.D
Report Date: 20-Mar-2017 12:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.262)	9214634	30.0000	30.1(A)
79	1,3,5-Trimethylbenzene	105	11.005	11.005	(1.273)	7607993	30.0000	30.1(A)
80	n-Decane	57	11.384	11.384	(2.026)	5430978	30.0000	37.0(A)
81	Tert-Butyl Benzene	119	11.500	11.500	(1.330)	7546316	30.0000	30.1(A)
82	1,2,4-Trimethylbenzene	105	11.516	11.516	(1.332)	6606208	30.0000	30.1(A)
83	1,3-Dichlorobenzene	146	11.799	11.799	(1.364)	4394121	30.0000	30.0(A)
84	Sec- Butylbenzene	105	11.812	11.812	(1.366)	9212233	30.0000	30.1(A)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.371)	2756242	10.0000	10.7(M)
86	Benzyl Chloride	91	11.870	11.870	(1.373)	4947011	30.0000	29.8(M)
87	1,4-Dichlorobenzene	146	11.896	11.896	(1.375)	4488303	30.0000	30.0(A)
88	p-Isopropyltoluene	119	11.992	11.992	(1.387)	8220757	30.0000	29.0
89	1,2,3-Trimethylbenzene	105	12.040	12.040	(1.392)	6653035	30.0000	30.0(A)
90	1,2-Dichlorobenzene	146	12.285	12.285	(1.420)	4298303	30.0000	29.6
91	N-Butylbenzene	91	12.465	12.465	(1.441)	7020024	30.0000	30.0
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	1737382	30.0000	30.2(A)
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.623)	1840861	30.0000	30.0
94	Naphthalene	128	14.166	14.166	(1.638)	5043626	30.0000	30.7(A)
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	1709498	30.0000	25.4

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07508.D
Report Date: 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07508.D
Lab Smp Id: cal7
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Misc Info:

Calibration Date: 16-MAR-2017
Calibration Time: 11:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

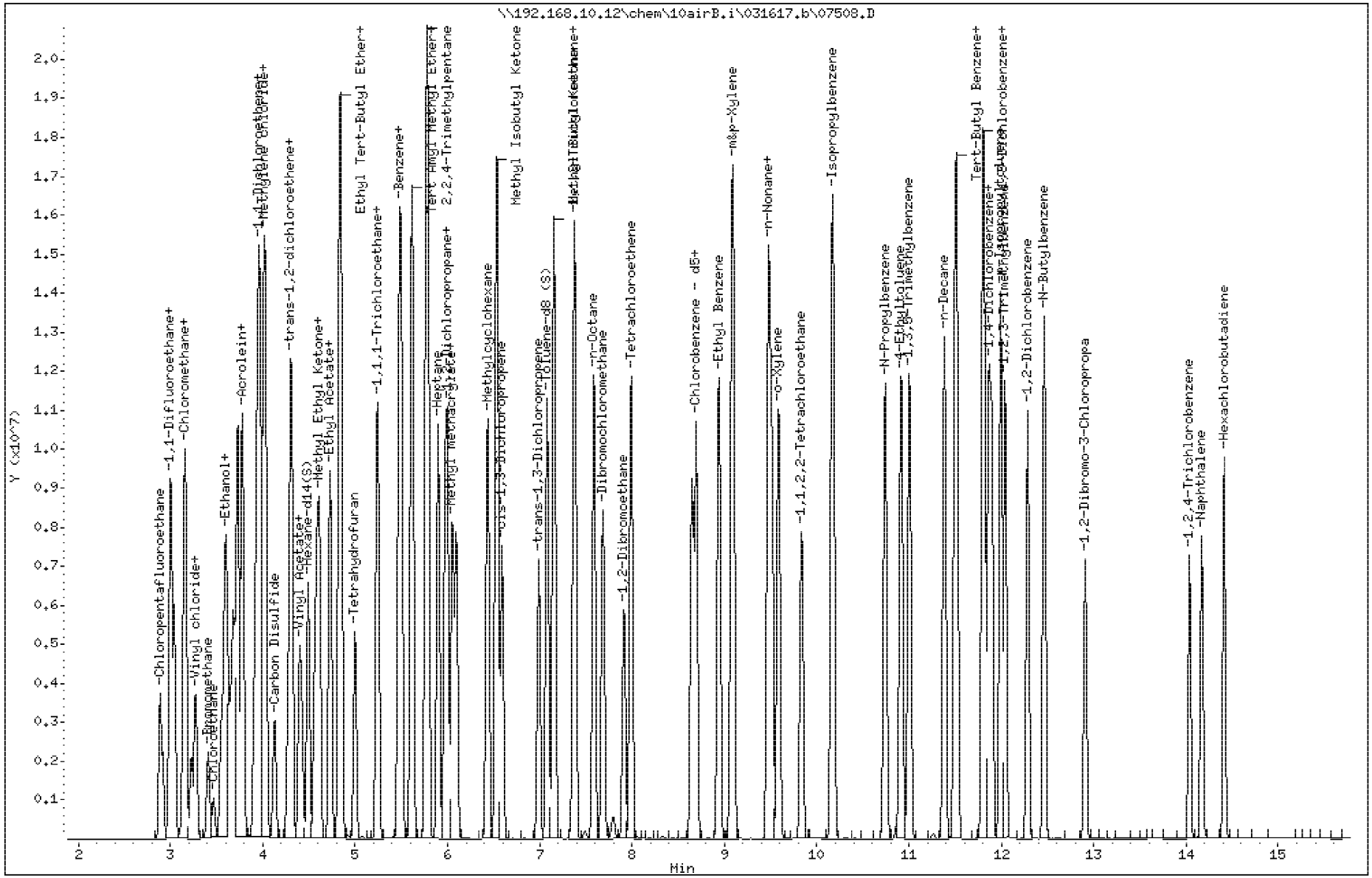
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	7334933	-4.01
67 Chlorobenzene - d	5205948	3123569	7288327	5343622	2.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.62	0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

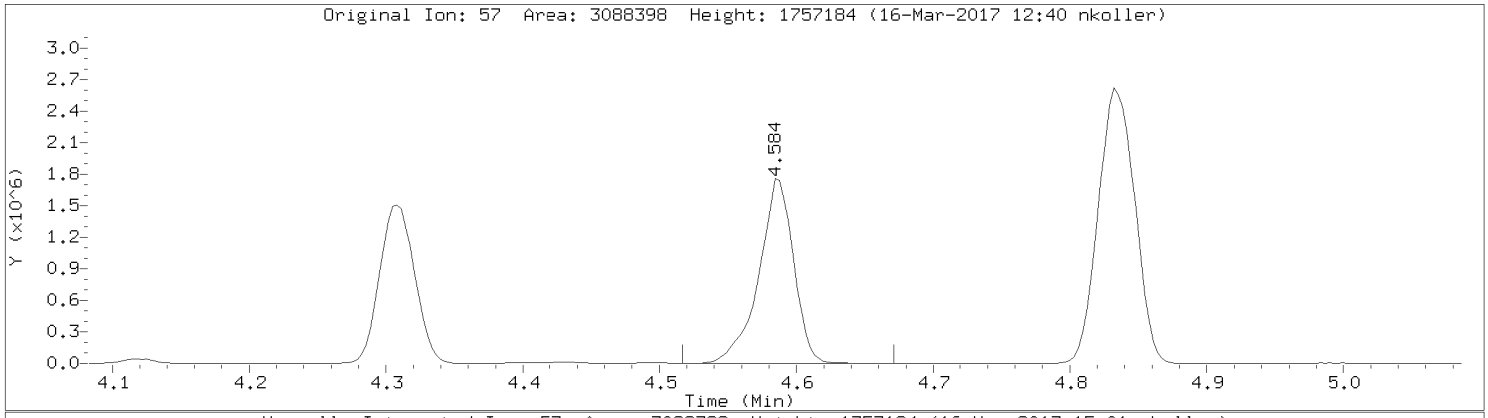
Data File: \\192.168.10.12\chem\10airB.i\031617.b\07508.D
Date : 16-MAR-2017 12:08
Client ID:
Sample Info:

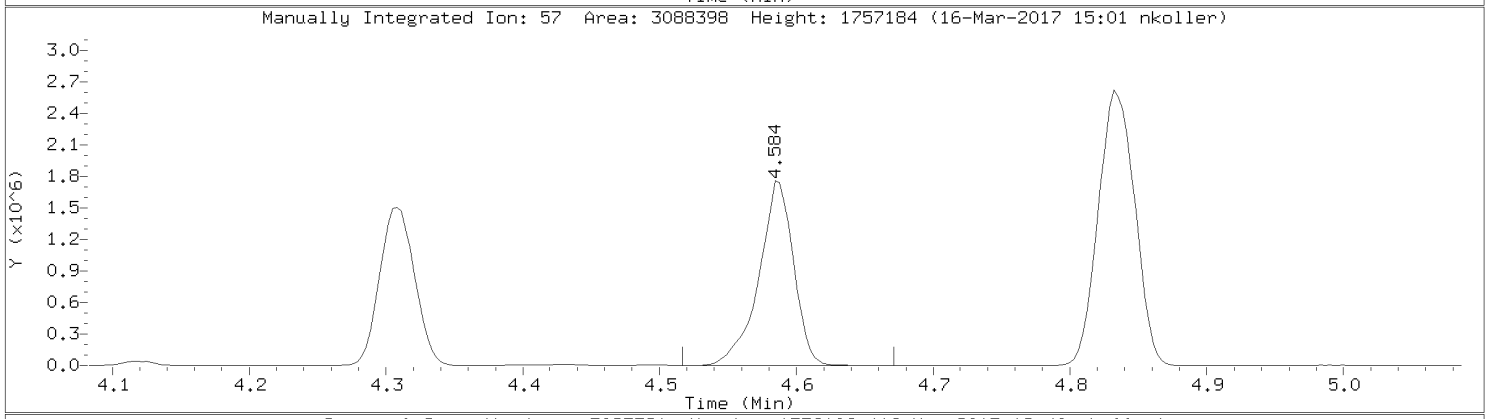
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

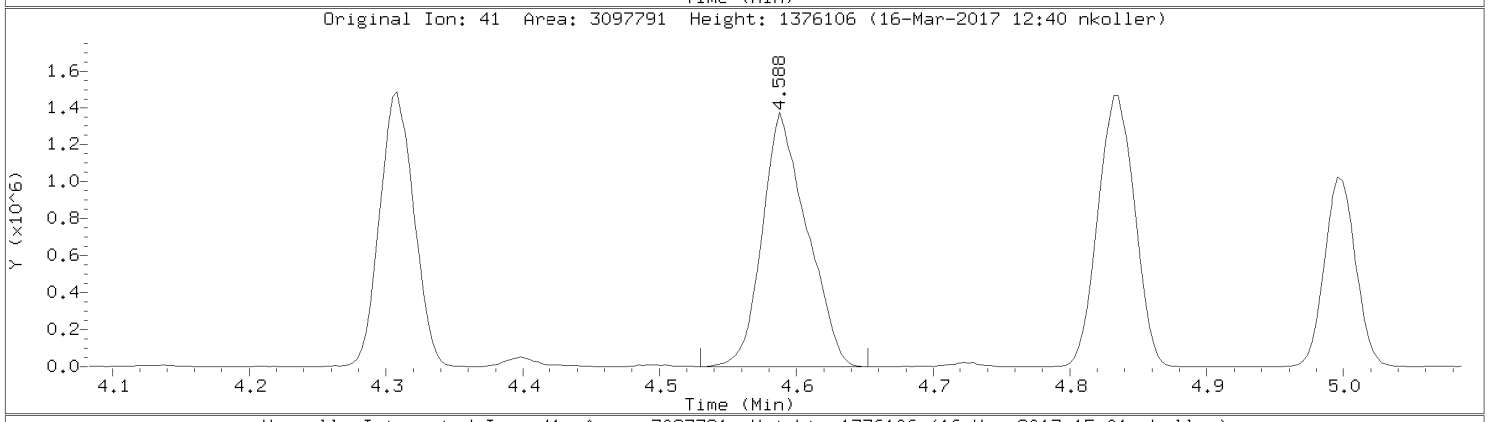


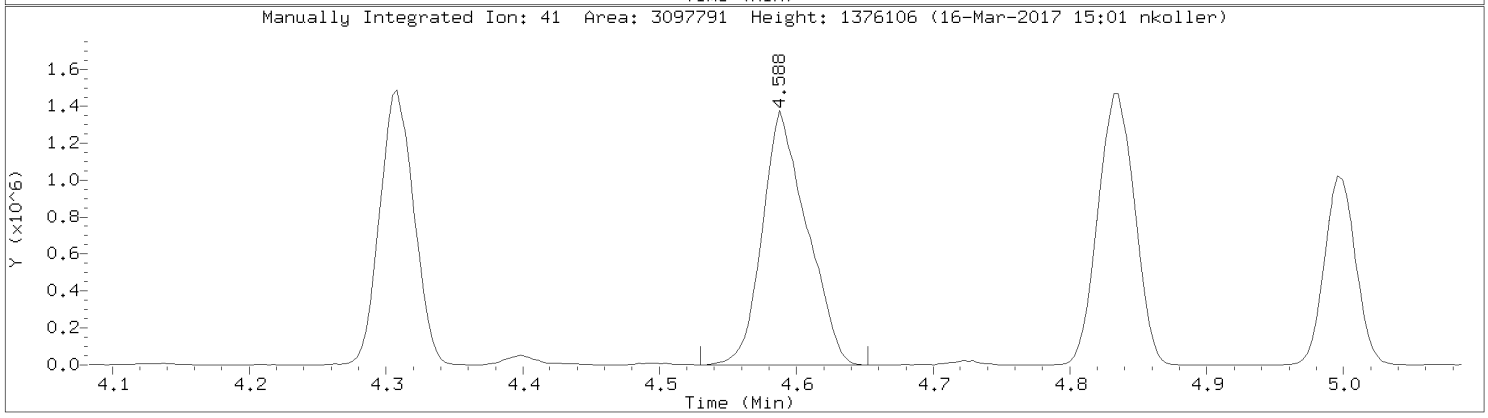
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07508.D
Injection Date: 16-MAR-2017 12:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: n-Hexane
CAS Number: 110-54-3

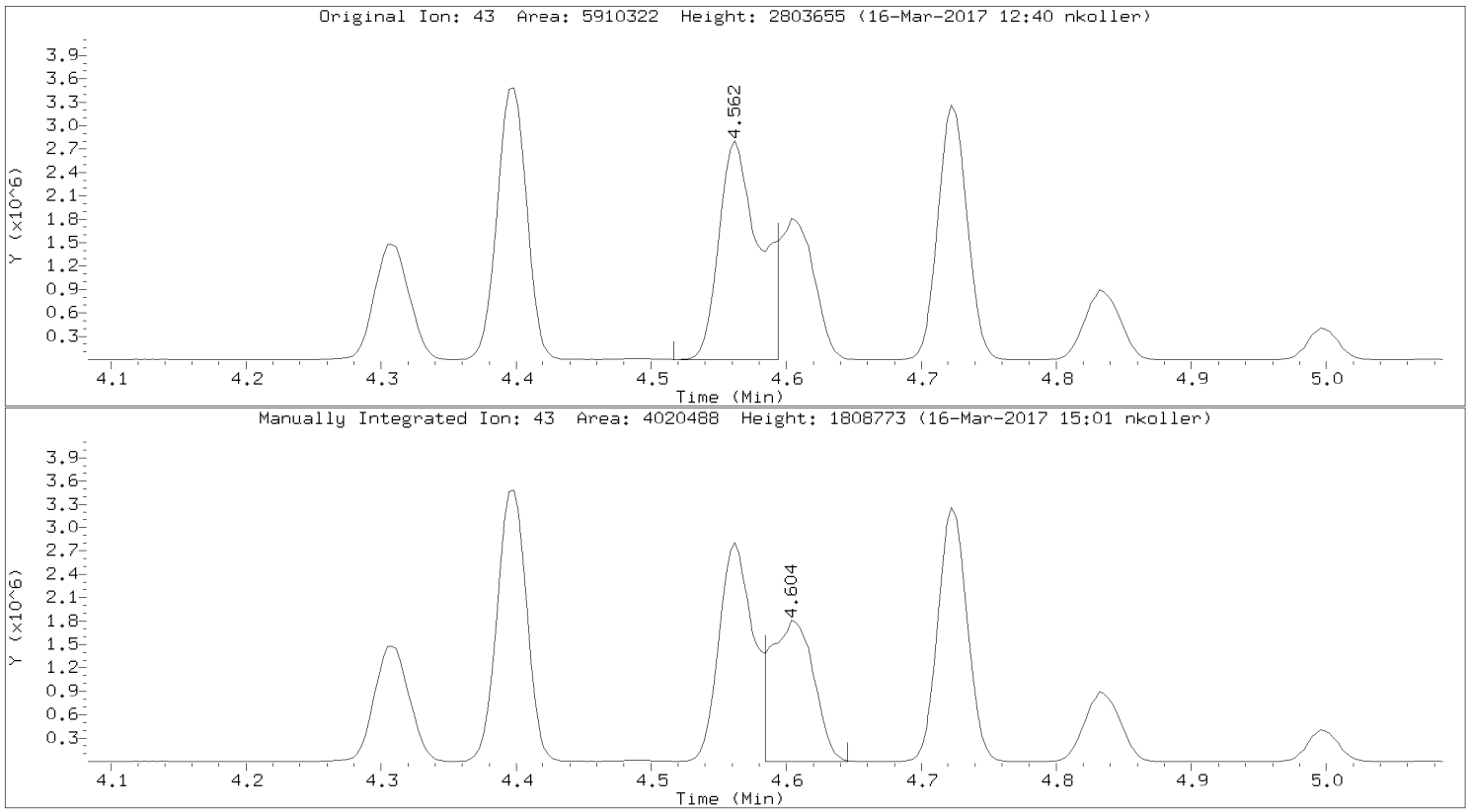






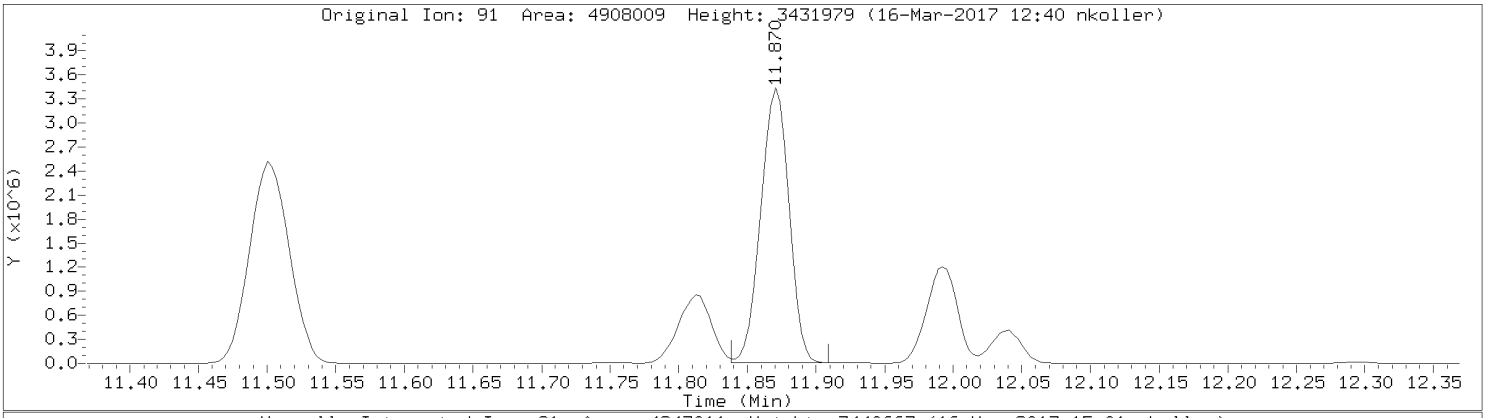


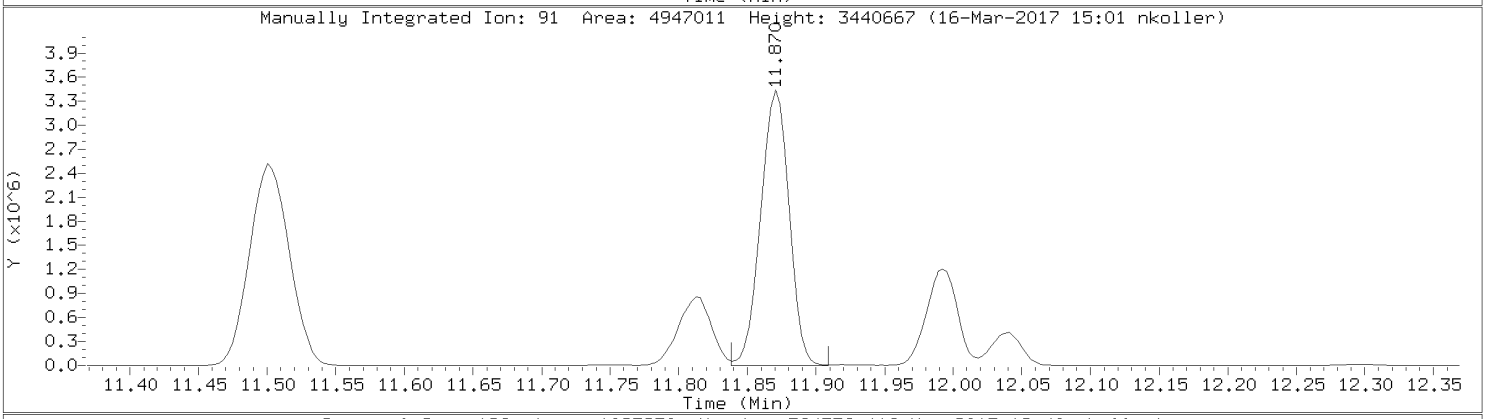
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07508.D
Injection Date: 16-MAR-2017 12:08
Instrument: 10airB.i
Lab Sample ID: cal7

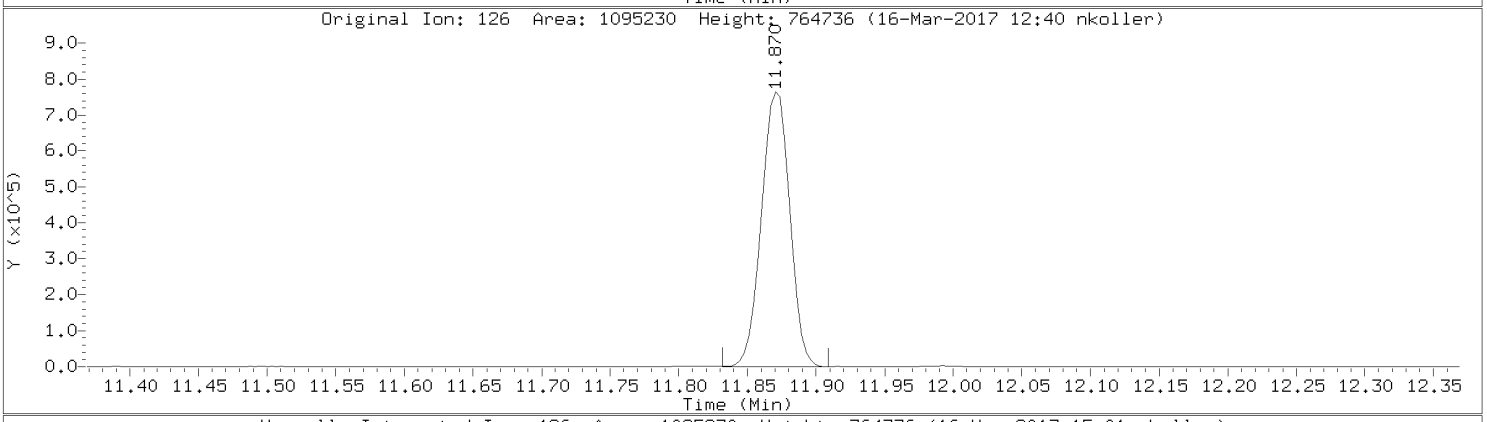


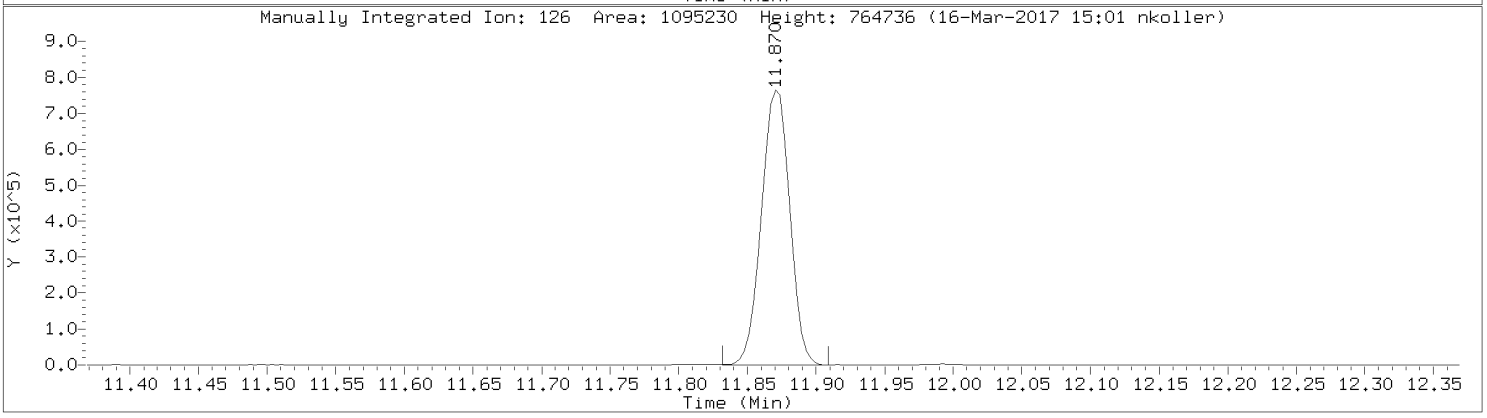
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07508.D
Injection Date: 16-MAR-2017 12:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: Benzyl Chloride
CAS Number: 100-44-7



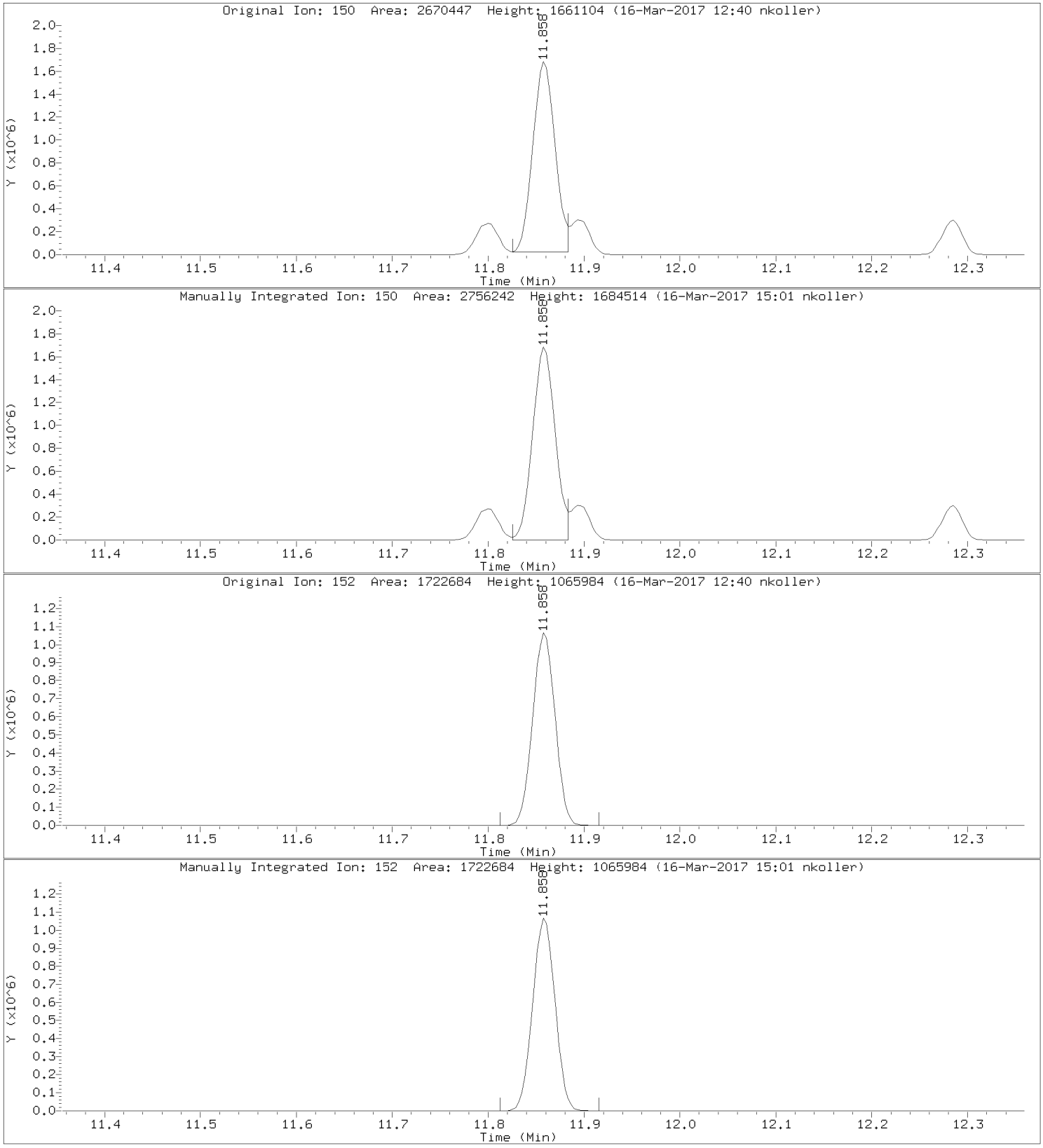






Data File: \\192.168.10.12\chem\10airB.i\031617.b/07508.D
Injection Date: 16-MAR-2017 12:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\031617.b\07510.D
Report Date: 20-Mar-2017 12:26

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\031617.b\07510.D
Lab Smp Id: ICV
Inj Date : 16-MAR-2017 13:03
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Meth Date : 20-Mar-2017 12:18 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.915	(0.525)	11140	0.32104	0.321
2	1,1-Difluoroethane	65	3.015	3.005	(0.537)	12488	0.11260	0.113(Q)
3	Chlorodifluoromethane	67	3.028	3.005	(0.540)	207289	10.4137	10.4(Q)
4	Propylene	41	3.031	2.999	(0.540)	637163	9.71471	9.71
5	Dichlorodifluoromethane	85	3.063	3.041	(0.546)	2039296	11.6982	11.7
6	Chloromethane	50	3.156	3.144	(0.563)	1024247	10.4836	10.5
7	Dichlorotetrafluoroethane	85	3.166	3.160	(0.564)	1916083	10.0945	10.1
8	Vinyl chloride	62	3.234	3.224	(0.576)	769918	10.2516	10.3
9	1,3-Butadiene	54	3.279	3.272	(0.584)	604053	9.93887	9.94
10	Bromomethane	94	3.414	3.410	(0.609)	520660	9.97201	9.97
11	Chloroethane	64	3.465	3.465	(0.618)	317982	10.3448	10.3
12	Ethanol	45	3.536	3.552	(0.630)	338545	13.3476	13.3
13	Vinyl Bromide	106	3.581	3.581	(0.638)	544735	10.8119	10.8
14	Isopentane	43	3.600	3.600	(0.642)	756636	11.1213	11.1
15	Freon 123	83	3.603	3.607	(0.642)	21750	0.19570	0.196
16	Trichlorofluoromethane	101	3.674	3.674	(0.655)	1396213	10.1844	10.2
17	Acrolein	56	3.677	3.690	(0.656)	224972	9.75853	9.76
18	Acetone	43	3.716	3.729	(0.662)	1286646	11.7494	11.7
19	Isopropyl Alcohol	45	3.754	3.777	(0.669)	1420377	12.5538	12.6
20	1,1-Dichloroethene	61	3.912	3.912	(0.697)	1050213	10.5934	10.6
21	Acrylonitrile	53	3.918	3.934	(0.699)	613246	11.8849	11.9
22	Freon 113	101	3.951	3.951	(0.704)	1077549	10.3159	10.3
23	Methyl Acetate	43	3.947	3.967	(0.704)	263714	1.59147	1.59(Q)

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07510.D
Report Date: 20-Mar-2017 12:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.944	3.967	(0.703)	1534068	12.3996	12.4
	25 Methylene chloride	49	3.999	4.005	(0.713)	978263	10.8663	10.9
	26 Allyl Chloride	76	4.015	4.021	(0.716)	220885	11.5810	11.6(Q)
	27 Carbon Disulfide	76	4.124	4.127	(0.735)	1415472	12.6938	12.7
	28 trans-1,2-dichloroethene	96	4.269	4.282	(0.761)	555307	11.5355	11.5
	29 Methyl Tert Butyl Ether	73	4.304	4.307	(0.767)	1433878	11.5618	11.6
	30 Vinyl Acetate	43	4.385	4.398	(0.782)	1933981	11.7517	11.8
	31 1,1-Dichloroethane	63	4.404	4.417	(0.785)	1126502	10.7875	10.8
$	32 Hexane-d14(S)	66	4.487	4.491	(0.800)	2296816	9.89106	9.89
	33 Methyl Ethyl Ketone	72	4.552	4.561	(0.811)	255728	10.1267	10.1(Q)
	34 n-Hexane	57	4.584	4.584	(0.817)	1177896	10.1393	10.1
	35 Di-isopropyl Ether	45	4.603	4.610	(0.821)	2354183	9.76688	9.77
	36 Ethyl Acetate	43	4.713	4.722	(0.840)	1642849	10.0518	10.1
	37 cis-1,2-Dichloroethene	96	4.716	4.732	(0.841)	566396	9.58063	9.58
	38 Ethyl Tert-Butyl Ether	59	4.825	4.832	(0.860)	2696533	12.3005	12.3
	39 Chloroform	83	4.835	4.851	(0.862)	1395851	11.3034	11.3
	40 Tetrahydrofuran	42	4.989	4.996	(0.889)	1051050	12.1194	12.1
	41 1,1,1-Trichloroethane	97	5.227	5.237	(0.932)	1609995	11.0983	11.1
	42 1,2-Dichloroethane	62	5.233	5.246	(0.933)	1279532	10.6718	10.7
	43 Benzene	78	5.462	5.471	(0.974)	2208799	11.3181	11.3
	44 Carbon tetrachloride	117	5.481	5.491	(0.977)	1482474	10.8569	10.9
	45 Cyclohexane	56	5.487	5.494	(0.978)	1367483	11.6189	11.6
	46 Tert Amyl Methyl Ether	73	5.600	5.610	(0.998)	2016256	12.2019	12.2
*	47 1,4-Difluorobenzene	114	5.610	5.619	(1.000)	6775009	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.777	(1.028)	4642396	12.6831	12.7
	49 Heptane	43	5.889	5.896	(1.050)	1638635	11.9119	11.9
	50 1,2-Dichloropropane	63	5.963	5.973	(1.063)	945046	11.8635	11.9
	51 Trichloroethene	130	5.986	5.992	(1.067)	1068209	11.7081	11.7
	52 Methyl methacrylate	69	6.040	6.050	(1.077)	786425	12.4168	12.4
	53 1,4-Dioxane	88	6.063	6.073	(1.081)	557459	12.8357	12.8
	54 Bromodichloromethane	83	6.082	6.092	(1.084)	1636357	11.8549	11.9
	55 Methylcyclohexane	98	6.430	6.439	(1.146)	654286	12.5508	12.6
	56 Methyl Isobutyl Ketone	43	6.529	6.536	(1.164)	2547409	14.0510	14.1
	57 cis-1,3-Dichloropropene	75	6.584	6.590	(1.174)	1306512	13.0759	13.1
	58 trans-1,3-Dichloropropene	75	6.983	6.989	(1.245)	1221126	11.4424	11.4
$	59 Toluene-d8 (S)	98	7.073	7.082	(1.261)	6165288	9.88212	9.88
	60 1,1,2-Trichloroethane	97	7.140	7.150	(1.273)	923789	11.8277	11.8
	61 Toluene	91	7.150	7.159	(1.275)	2680758	11.8292	11.8
	62 Methyl Butyl Ketone	43	7.368	7.378	(0.853)	2468603	13.1344	13.1
	63 n-Octane	43	7.581	7.587	(0.877)	92656	0.53688	0.537
	64 Dibromochloromethane	129	7.674	7.687	(0.888)	1694372	13.5818	13.6
	65 1,2-Dibromoethane	107	7.905	7.912	(0.915)	1575062	13.0827	13.1
	66 Tetrachloroethene	166	7.983	7.989	(0.924)	1338825	12.5695	12.6
*	67 Chlorobenzene - d5	117	8.642	8.648	(1.000)	4695604	10.0000	
	68 Chlorobenzene	112	8.683	8.690	(1.005)	2183404	12.7729	12.8
	69 Ethyl Benzene	91	8.931	8.941	(1.033)	3654105	13.4463	13.4
	70 m&p-Xylene	91	9.076	9.089	(1.050)	3042309	12.5588	12.6
	71 n-Nonane	43	9.465	9.471	(1.095)	128835	0.89064	0.891
	72 Bromoform	173	9.478	9.484	(1.097)	1330637	11.4795	11.5
	73 Styrene	104	9.507	9.513	(1.100)	2115319	11.9734	12.0
	74 o-Xylene	91	9.577	9.584	(1.108)	2838744	13.5882	13.6
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.831	(1.137)	1715572	12.1082	12.1
	76 Isopropylbenzene	105	10.159	10.166	(1.176)	3635441	13.0474	13.0
	77 N-Propylbenzene	91	10.738	10.741	(1.243)	4454092	12.0135	12.0

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07510.D
Report Date: 20-Mar-2017 12:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.915	(1.263)	3621202	11.6450	11.6
79	1,3,5-Trimethylbenzene	105	10.998	11.005	(1.273)	3099990	12.1168	12.1
80	n-Decane	57	11.375	11.384	(2.028)	201086	1.48148	1.48
81	Tert-Butyl Benzene	119	11.494	11.500	(1.330)	3093177	12.0089	12.0
82	1,2,4-Trimethylbenzene	105	11.510	11.516	(1.332)	2874653	12.4473	12.4
83	1,3-Dichlorobenzene	146	11.793	11.799	(1.365)	1785352	12.5559	12.6
84	Sec- Butylbenzene	105	11.806	11.812	(1.366)	4091062	12.3569	12.4
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.857	(1.371)	2658388	11.7319	11.7
86	Benzyl Chloride	91	11.863	11.870	(1.373)	1727323	11.9869	12.0(M)
87	1,4-Dichlorobenzene	146	11.889	11.896	(1.376)	1735043	12.4011	12.4
88	p-Isopropyltoluene	119	11.986	11.992	(1.387)	3337931	13.3131	13.3
89	1,2,3-Trimethylbenzene	105	12.034	12.040	(1.393)	2866096	12.7469	12.7
90	1,2-Dichlorobenzene	146	12.278	12.285	(1.421)	1645617	12.9370	12.9
91	N-Butylbenzene	91	12.461	12.465	(1.442)	2944431	12.6213	12.6
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.493)	122166	2.61813	2.62
93	1,2,4-Trichlorobenzene	180	14.031	14.034	(1.624)	585995	13.3188	13.3
94	Naphthalene	128	14.166	14.166	(1.639)	1985146	13.9758	14.0
95	Hexachlorobutadiene	225	14.410	14.413	(1.667)	704816	11.9147	11.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\031617.b\07510.D
Report Date: 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07510.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Misc Info:

Calibration Date: 16-MAR-2017
Calibration Time: 11:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

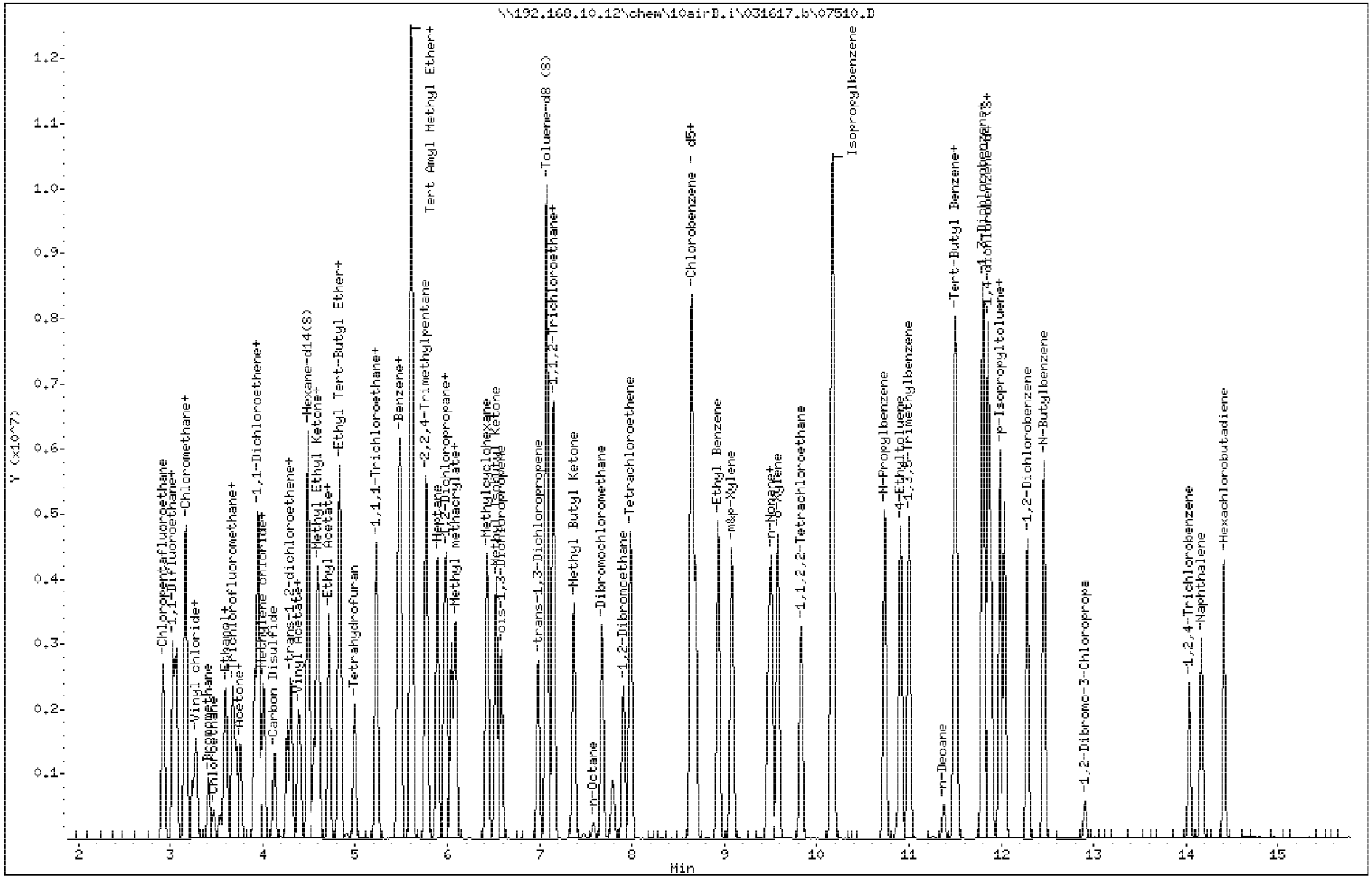
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6775009	-11.33
67 Chlorobenzene - d	5205948	3123569	7288327	4695604	-9.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.61	-0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

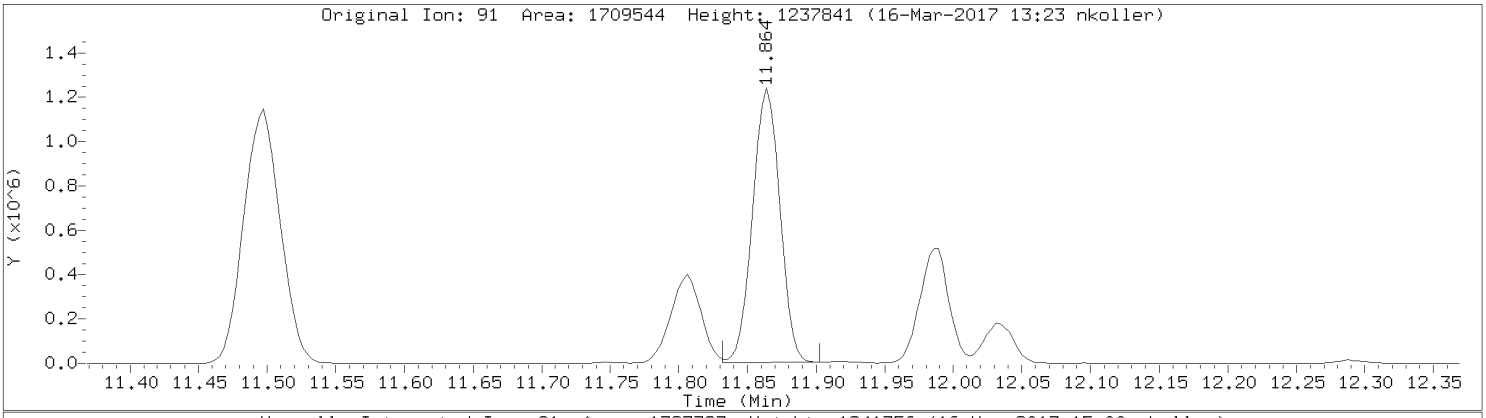
Data File: \\192.168.10.12\chem\10airB.i\031617.b\07510.D
Date : 16-MAR-2017 13:03
Client ID:
Sample Info:

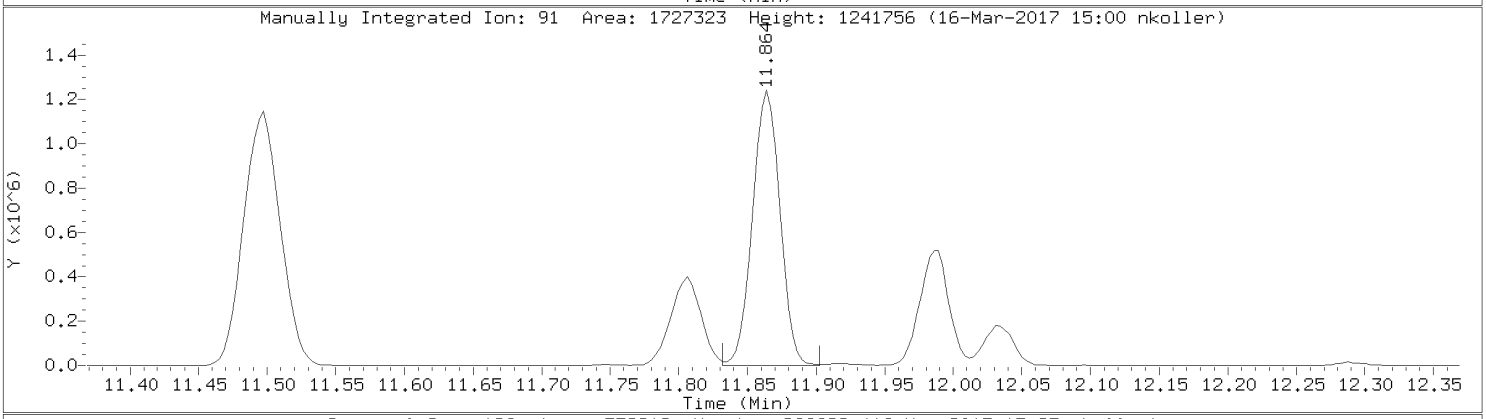
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

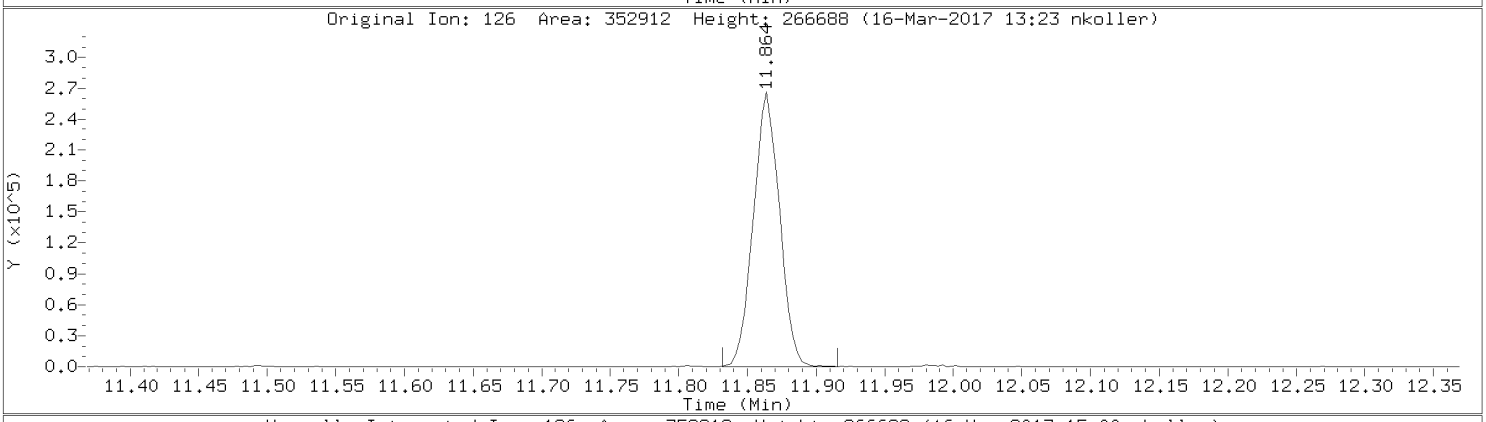


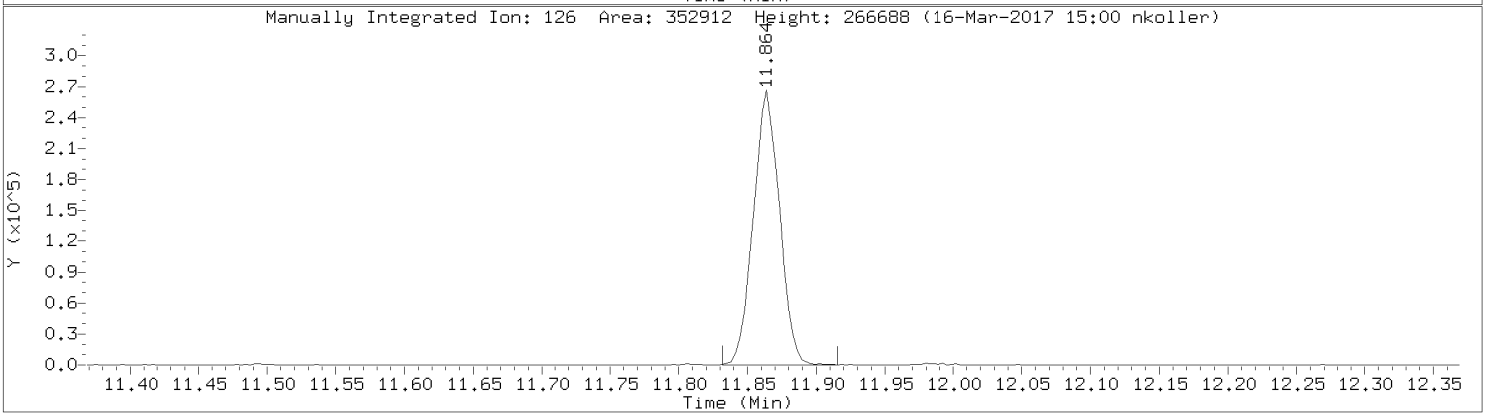
Data File: \\192.168.10.12\chem\10airB.i\031617.b/07510.D
Injection Date: 16-MAR-2017 13:03
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: Benzyl Chloride
CAS Number: 100-44-7









Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 20-MAR-2017 09:10
Lab File ID: 07902.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	7.54963	0.05908	0.010	-24.50369	30.00000	Quad	(H)	
	2 1,1-Difluoroethane	10.00000	11.45724	0.06920	0.010	14.57245	30.00000	Line		
	3 Chlorodifluoromethane	0.02938	0.03026	0.03026	0.010	2.98939	30.00000	Aver		
	4 Propylene	0.09681	0.09217	0.09217	0.010	-4.78834	30.00000	Aver		
	5 Dichlorodifluoromethane	10.00000	11.77577	0.30295	0.010	17.75770	30.00000	Line		
	6 Chloromethane	0.14421	0.14992	0.14992	0.010	3.96049	30.00000	Aver	(H)	
	7 Dichlorotetrafluoroethane	0.28017	0.27716	0.27716	0.010	-1.07382	30.00000	Aver		
	8 Vinyl chloride	0.11085	0.10527	0.10527	0.010	-5.03849	30.00000	Aver		
	9 1,3-Butadiene	0.08971	0.08383	0.08383	0.010	-6.54808	30.00000	Aver		
	10 Bromomethane	0.07707	0.07261	0.07261	0.010	-5.77906	30.00000	Aver		
	11 Chloroethane	0.04537	0.04274	0.04274	0.010	-5.79338	30.00000	Aver		
	12 Ethanol	0.03744	0.03953	0.03953	0.005	5.59240	30.00000	Aver		
	13 Vinyl Bromide	0.07437	0.06921	0.06921	0.010	-6.93005	30.00000	Aver		
	14 Isopentane	10.00000	10.58442	0.10642	0.010	5.84415	30.00000	Line		
	15 Freon 123	0.16404	0.06929	0.06929	0.010	-57.76095	30.00000	Aver	(H)	<-
	16 Trichlorofluoromethane	0.20235	0.18896	0.18896	0.010	-6.61634	30.00000	Aver		
	17 Acrolein	0.03403	0.03376	0.03376	0.010	-0.80107	30.00000	Aver		
	18 Acetone	0.16163	0.15159	0.15159	0.010	-6.21429	30.00000	Aver		
	19 Isopropyl Alcohol	50.00000	54.41557	0.16577	0.010	8.83113	30.00000	Quad		
	20 1,1-Dichloroethene	0.14633	0.13999	0.13999	0.010	-4.32984	30.00000	Aver		
	21 Acrylonitrile	0.07616	0.07826	0.07826	0.010	2.75633	30.00000	Aver		
	22 Freon 113	0.15418	0.13826	0.13826	0.010	-10.32139	30.00000	Aver		
	23 Methyl Acetate	0.24458	0.23398	0.23398	0.010	-4.33468	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.18261	0.17598	0.17598	0.010	-3.63226	30.00000	Aver		
	25 Methylene chloride	0.13288	0.11206	0.11206	0.010	-15.66674	30.00000	Aver		
	26 Allyl Chloride	0.02815	0.02675	0.02675	0.010	-4.97236	30.00000	Aver	(Q)	
	27 Carbon Disulfide	0.16459	0.16313	0.16313	0.010	-0.88325	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.07105	0.06693	0.06693	0.010	-5.79745	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.18305	0.17396	0.17396	0.010	-4.96789	30.00000	Aver		
	30 Vinyl Acetate	0.24291	0.25602	0.25602	0.010	5.39680	30.00000	Aver		
	31 1,1-Dichloroethane	0.15414	0.14797	0.14797	0.010	-3.99688	30.00000	Aver		
$	32 Hexane-d14(S)	0.34275	0.30874	0.30874	0.010	-9.92206	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.03727	0.03262	0.03262	0.010	-12.49492	30.00000	Aver	(Q)	
	34 n-Hexane	0.17147	0.15479	0.15479	0.010	-9.72545	30.00000	Aver	(Q)	
	35 Di-isopropyl Ether	0.35577	0.31692	0.31692	0.010	-10.92117	30.00000	Aver		
	36 Ethyl Acetate	0.24124	0.27324	0.27324	0.010	13.26754	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.08726	0.09460	0.09460	0.010	8.41387	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.32357	0.34480	0.34480	0.010	6.56129	30.00000	Aver		
	39 Chloroform	0.18227	0.19225	0.19225	0.010	5.47537	30.00000	Aver		
	40 Tetrahydrofuran	0.12801	0.14114	0.14114	0.010	10.25993	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.21412	0.23073	0.23073	0.010	7.75777	30.00000	Aver		
	42 1,2-Dichloroethane	0.17697	0.18317	0.18317	0.010	3.50394	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 20-MAR-2017 09:10
Lab File ID: 07902.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.28805	0.30362	0.30362	0.010	5.40349	30.00000	Aver		
	44 Carbon tetrachloride	0.20154	0.22705	0.22705	0.010	12.65744	30.00000	Aver		
	45 Cyclohexane	0.17372	0.18902	0.18902	0.010	8.80593	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	10.95529	0.26839	0.010	9.55294	30.00000	Line		
	48 2,2,4-Trimethylpentane	0.54027	0.56162	0.56162	0.010	3.95233	30.00000	Aver		
	49 Heptane	0.20304	0.22669	0.22669	0.010	11.64528	30.00000	Aver		
	50 1,2-Dichloropropane	0.11758	0.12724	0.12724	0.010	8.21999	30.00000	Aver		
	51 Trichloroethene	0.13467	0.14397	0.14397	0.010	6.91029	30.00000	Aver		
	52 Methyl methacrylate	0.09348	0.10767	0.10767	0.010	15.17848	30.00000	Aver		
	53 1,4-Dioxane	0.06410	0.07438	0.07438	0.010	16.03758	30.00000	Aver		
	54 Bromodichloromethane	0.20374	0.23160	0.23160	0.010	13.67691	30.00000	Aver		
	55 Methylcyclohexane	0.07695	0.08574	0.08574	0.010	11.43169	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.26760	0.30811	0.30811	0.010	15.13816	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.14748	0.17751	0.17751	0.010	20.36460	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	10.66046	0.16782	0.010	6.60464	30.00000	Line		
$	59 Toluene-d8 (S)	0.92086	0.91629	0.91629	0.010	-0.49587	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.11528	0.12446	0.12446	0.010	7.96134	30.00000	Aver		
	61 Toluene	0.33450	0.36384	0.36384	0.010	8.77078	30.00000	Aver		
	62 Methyl Butyl Ketone	25.00000	27.48313	0.41559	0.010	9.93251	30.00000	Quad		
	63 n-Octane	0.36754	0.43534	0.43534	0.010	18.44741	30.00000	Aver		
	64 Dibromochloromethane	0.26568	0.35283	0.35283	0.010	32.80316	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.25639	0.30785	0.30785	0.010	20.06980	30.00000	Aver		
	66 Tetrachloroethene	0.22684	0.26075	0.26075	0.010	14.94896	30.00000	Aver		
	68 Chlorobenzene	0.36404	0.42772	0.42772	0.010	17.49087	30.00000	Aver		
	69 Ethyl Benzene	0.57874	0.72452	0.72452	0.010	25.18877	30.00000	Aver		
	70 m&p-Xylene	20.00000	22.09033	0.54390	0.010	10.45165	30.00000	Quad		
	71 n-Nonane	0.30806	0.40446	0.40446	0.010	31.29207	30.00000	Aver		<-
	72 Bromoform	10.00000	10.81670	0.26793	0.010	8.16703	30.00000	Quad		
	73 Styrene	10.00000	10.84433	0.41088	0.010	8.44331	30.00000	Quad		
	74 o-Xylene	0.44491	0.55677	0.55677	0.010	25.14184	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	10.00000	10.94549	0.33221	0.010	9.45487	30.00000	Quad		
	76 Isopropylbenzene	0.59339	0.71910	0.71910	0.010	21.18531	30.00000	Aver		
	77 N-Propylbenzene	10.00000	11.01587	0.87647	0.010	10.15871	30.00000	Quad		
	78 4-Ethyltoluene	10.00000	11.03487	0.73363	0.010	10.34873	30.00000	Quad		
	79 1,3,5-Trimethylbenzene	10.00000	11.02976	0.60524	0.010	10.29761	30.00000	Quad		
	80 n-Decane	0.20034	0.28801	0.28801	0.010	43.75982	30.00000	Aver		<-
	81 Tert-Butyl Benzene	10.00000	11.04807	0.61036	0.010	10.48072	30.00000	Quad		
	82 1,2,4-Trimethylbenzene	10.00000	11.10127	0.55236	0.010	11.01275	30.00000	Quad		
	83 1,3-Dichlorobenzene	10.00000	11.05770	0.33720	0.010	10.57702	30.00000	Quad		
	84 Sec- Butylbenzene	10.00000	11.18789	0.79802	0.010	11.87885	30.00000	Quad		
$	85 1,4-dichlorobenzene-d4 (S)	0.48257	0.54459	0.54459	0.010	12.85292	30.00000	Aver		
	86 Benzyl Chloride	10.00000	11.11961	0.34071	0.010	11.19615	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 20-MAR-2017 09:10
Lab File ID: 07902.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	10.00000	10.96690	0.32807	0.010	9.66901	30.00000	Quad	
88 p-Isopropyltoluene	10.00000	12.25670	0.65526	0.010	22.56695	30.00000	Line	
89 1,2,3-Trimethylbenzene	10.00000	11.04920	0.53538	0.010	10.49197	30.00000	Quad	
90 1,2-Dichlorobenzene	10.00000	11.40897	0.30891	0.010	14.08973	30.00000	Line	
91 N-Butylbenzene	10.00000	11.10691	0.55674	0.010	11.06906	30.00000	Quad	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.65996	0.11324	0.010	6.59962	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	11.48757	0.10483	0.010	14.87566	30.00000	Quad	
94 Naphthalene	10.00000	10.14874	0.30336	0.010	1.48744	30.00000	Line	
95 Hexachlorobutadiene	0.12598	0.13066	0.13066	0.010	3.71165	30.00000	Aver	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 11.07209
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Lab Smp Id: ccv
Inj Date : 20-MAR-2017 09:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m
Meth Date : 20-Mar-2017 12:23 10airB.i Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.954	2.954	(0.526)	363716	10.0000	7.55(H)
2	1,1-Difluoroethane	65	3.025	3.025	(0.539)	426030	10.0000	11.5
3	Chlorodifluoromethane	67	3.034	3.034	(0.541)	186287	10.0000	10.3
4	Propylene	41	3.037	3.037	(0.541)	567450	10.0000	9.52
5	Dichlorodifluoromethane	85	3.070	3.070	(0.547)	1865083	10.0000	11.8
6	Chloromethane	50	3.163	3.163	(0.564)	922953	10.0000	10.4(H)
7	Dichlorotetrafluoroethane	85	3.172	3.172	(0.565)	1706301	10.0000	9.89
8	Vinyl chloride	62	3.243	3.243	(0.578)	648065	10.0000	9.50
9	1,3-Butadiene	54	3.285	3.285	(0.585)	516111	10.0000	9.35
10	Bromomethane	94	3.420	3.420	(0.609)	447029	10.0000	9.42
11	Chloroethane	64	3.471	3.471	(0.619)	263135	10.0000	9.42
12	Ethanol	45	3.545	3.545	(0.632)	1216842	50.0000	52.8
13	Vinyl Bromide	106	3.584	3.584	(0.639)	426097	10.0000	9.31
14	Isopentane	43	3.603	3.603	(0.642)	655147	10.0000	10.6
15	Freon 123	83	3.606	3.606	(0.643)	426578	10.0000	4.22(H)
16	Trichlorofluoromethane	101	3.677	3.677	(0.655)	1163338	10.0000	9.34
17	Acrolein	56	3.684	3.684	(0.656)	519527	25.0000	24.8
18	Acetone	43	3.722	3.722	(0.663)	4666223	50.0000	46.9
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	5102656	50.0000	54.4
20	1,1-Dichloroethene	61	3.912	3.912	(0.697)	861859	10.0000	9.57
21	Acrylonitrile	53	3.928	3.928	(0.700)	1204497	25.0000	25.7
22	Freon 113	101	3.951	3.951	(0.704)	851211	10.0000	8.97
23	Methyl Acetate	43	3.957	3.957	(0.705)	1440473	10.0000	9.57

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.704)	2708485	25.0000	24.1
	25 Methylene chloride	49	4.005	4.005	(0.714)	3449537	50.0000	42.2
	26 Allyl Chloride	76	4.021	4.021	(0.716)	411743	25.0000	23.8(Q)
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	1004323	10.0000	9.91
	28 trans-1,2-dichloroethene	96	4.275	4.275	(0.762)	412075	10.0000	9.42
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	2677400	25.0000	23.8
	30 Vinyl Acetate	43	4.388	4.388	(0.782)	1576139	10.0000	10.5
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	910992	10.0000	9.60
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	1900722	10.0000	9.01
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	200799	10.0000	8.75(Q)
	34 n-Hexane	57	4.587	4.587	(0.817)	952977	10.0000	9.03(Q)
	35 Di-isopropyl Ether	45	4.603	4.603	(0.820)	1951084	10.0000	8.91
	36 Ethyl Acetate	43	4.716	4.716	(0.840)	1682196	10.0000	11.3
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	582409	10.0000	10.8
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	5306873	25.0000	26.6
	39 Chloroform	83	4.841	4.841	(0.863)	1183578	10.0000	10.5
	40 Tetrahydrofuran	42	4.995	4.995	(0.890)	868911	10.0000	11.0
	41 1,1,1-Trichloroethane	97	5.233	5.233	(0.932)	1420478	10.0000	10.8
	42 1,2-Dichloroethane	62	5.237	5.237	(0.933)	1127683	10.0000	10.4
	43 Benzene	78	5.465	5.465	(0.974)	1869202	10.0000	10.5
	44 Carbon tetrachloride	117	5.484	5.484	(0.977)	1397839	10.0000	11.3
	45 Cyclohexane	56	5.487	5.487	(0.978)	1163656	10.0000	10.9
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	1652331	10.0000	11.0
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	6156400	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.028)	8643885	25.0000	26.0
	49 Heptane	43	5.889	5.889	(1.049)	1395589	10.0000	11.2
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	783366	10.0000	10.8
	51 Trichloroethene	130	5.986	5.986	(1.066)	886349	10.0000	10.7
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	662882	10.0000	11.5
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	457940	10.0000	11.6
	54 Bromodichloromethane	83	6.085	6.085	(1.084)	1425830	10.0000	11.4
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	527864	10.0000	11.1
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	4742063	25.0000	28.8
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	1092841	10.0000	12.0
	58 trans-1,3-Dichloropropene	75	6.983	6.983	(1.244)	1033152	10.0000	10.7
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	5641069	10.0000	9.95
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	766227	10.0000	10.8
	61 Toluene	91	7.153	7.153	(1.274)	2239918	10.0000	10.9
	62 Methyl Butyl Ketone	43	7.368	7.368	(0.853)	4376216	25.0000	27.5
	63 n-Octane	43	7.581	7.581	(0.877)	1833676	10.0000	11.8
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	1486146	10.0000	13.3
	65 1,2-Dibromoethane	107	7.905	7.905	(0.915)	1296691	10.0000	12.0
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	1098284	10.0000	11.5
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	4212056	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	1801574	10.0000	11.7
	69 Ethyl Benzene	91	8.934	8.934	(1.034)	3051723	10.0000	12.5
	70 m&p-Xylene	91	9.082	9.082	(1.051)	4581860	20.0000	22.1
	71 n-Nonane	43	9.468	9.468	(1.096)	1703613	10.0000	13.1
	72 Bromoform	173	9.478	9.478	(1.097)	1128552	10.0000	10.8
	73 Styrene	104	9.507	9.507	(1.100)	1730639	10.0000	10.8
	74 o-Xylene	91	9.577	9.577	(1.108)	2345146	10.0000	12.5
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1399295	10.0000	10.9
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	3028909	10.0000	12.1
	77 N-Propylbenzene	91	10.741	10.741	(1.243)	3691744	10.0000	11.0

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.263)	3090111	10.0000	11.0
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.273)	2549297	10.0000	11.0
80	n-Decane	57	11.381	11.381	(2.028)	1773134	10.0000	14.4
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2570857	10.0000	11.0
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	2326587	10.0000	11.1
83	1,3-Dichlorobenzene	146	11.793	11.793	(1.365)	1420295	10.0000	11.1
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	3361296	10.0000	11.2
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.372)	2293855	10.0000	11.3
86	Benzyl Chloride	91	11.863	11.863	(1.373)	1435096	10.0000	11.1
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.376)	1381864	10.0000	11.0
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	2759979	10.0000	12.3
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	2255045	10.0000	11.0
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	1301163	10.0000	11.4
91	N-Butylbenzene	91	12.461	12.461	(1.442)	2345034	10.0000	11.1
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	476976	10.0000	10.7
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.624)	441569	10.0000	11.5
94	Naphthalene	128	14.156	14.156	(1.638)	1277771	10.0000	10.1
95	Hexachlorobutadiene	225	14.400	14.400	(1.666)	550328	10.0000	10.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07902.D
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m
Misc Info:

Calibration Date: 16-MAR-2017
Calibration Time: 11:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

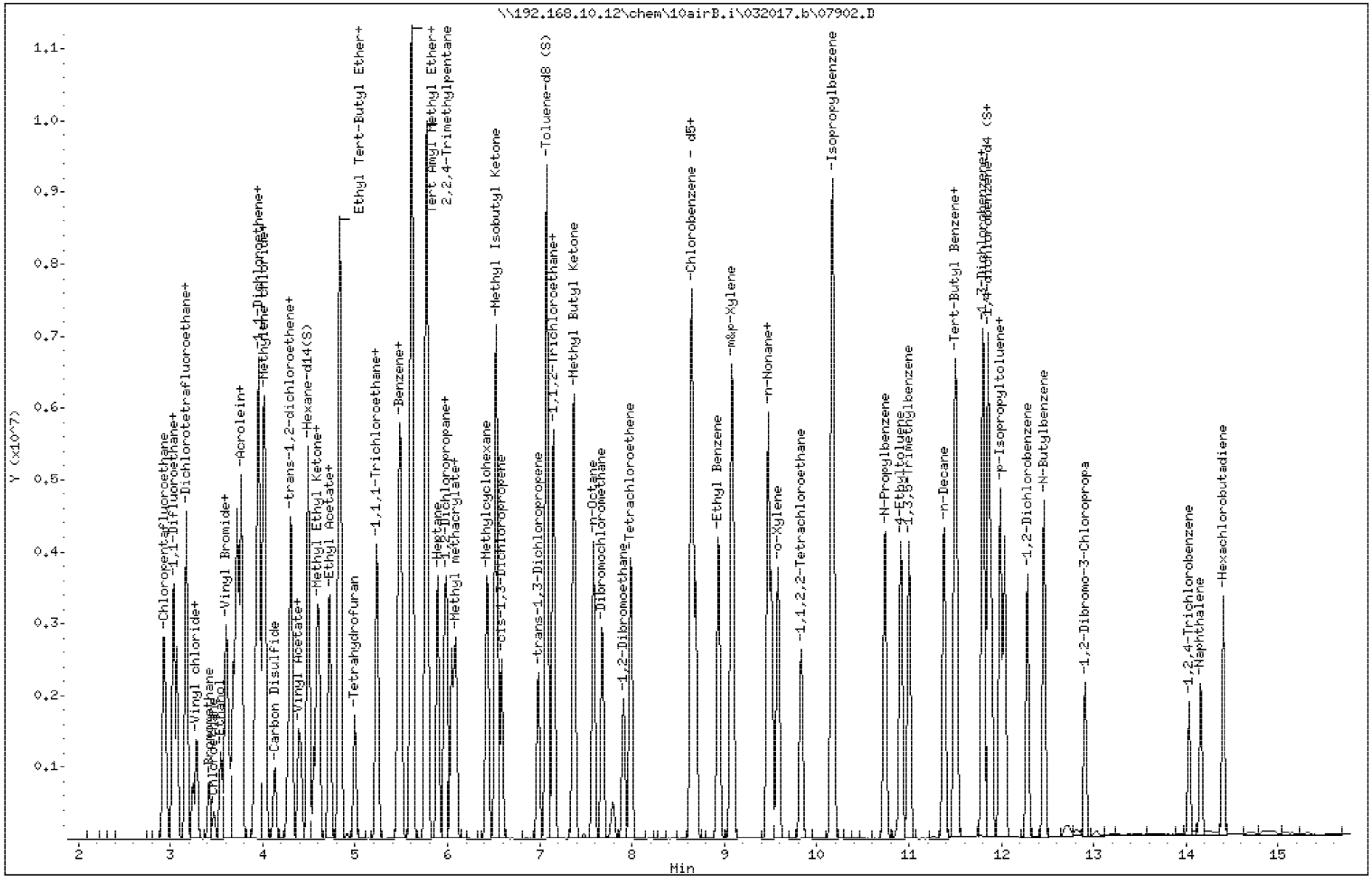
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6156400	-19.43
67 Chlorobenzene - d	5205948	3123569	7288327	4212056	-19.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.61	-0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Date : 20-MAR-2017 09:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032017.b/07902.D
Injection Date: 20-MAR-2017 09:10
Instrument: 10airB.i
Lab Sample ID: ccv
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

THC total TO15 regular IN AIR

Data file : \\192.168.10.12\chem\10airB.i\032017thc.b\07902.D
Lab Smp Id: ccv
Inj Date : 20-MAR-2017 09:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment :
Method : \\192.168.10.12\chem\10airB.i\032017thc.b\THC_075-17.m
Meth Date : 21-Mar-2017 10:02 nkoller Quant Type: ESTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppbv)	(ppbv)
S 5 THC as Gas	2.900-14.500			517220483	1195.00	1144

Data File: \\192.168.10.12\chem\10airB.i\032017thc.b\07902.D

Date : 20-MAR-2017 09:10

Client ID:

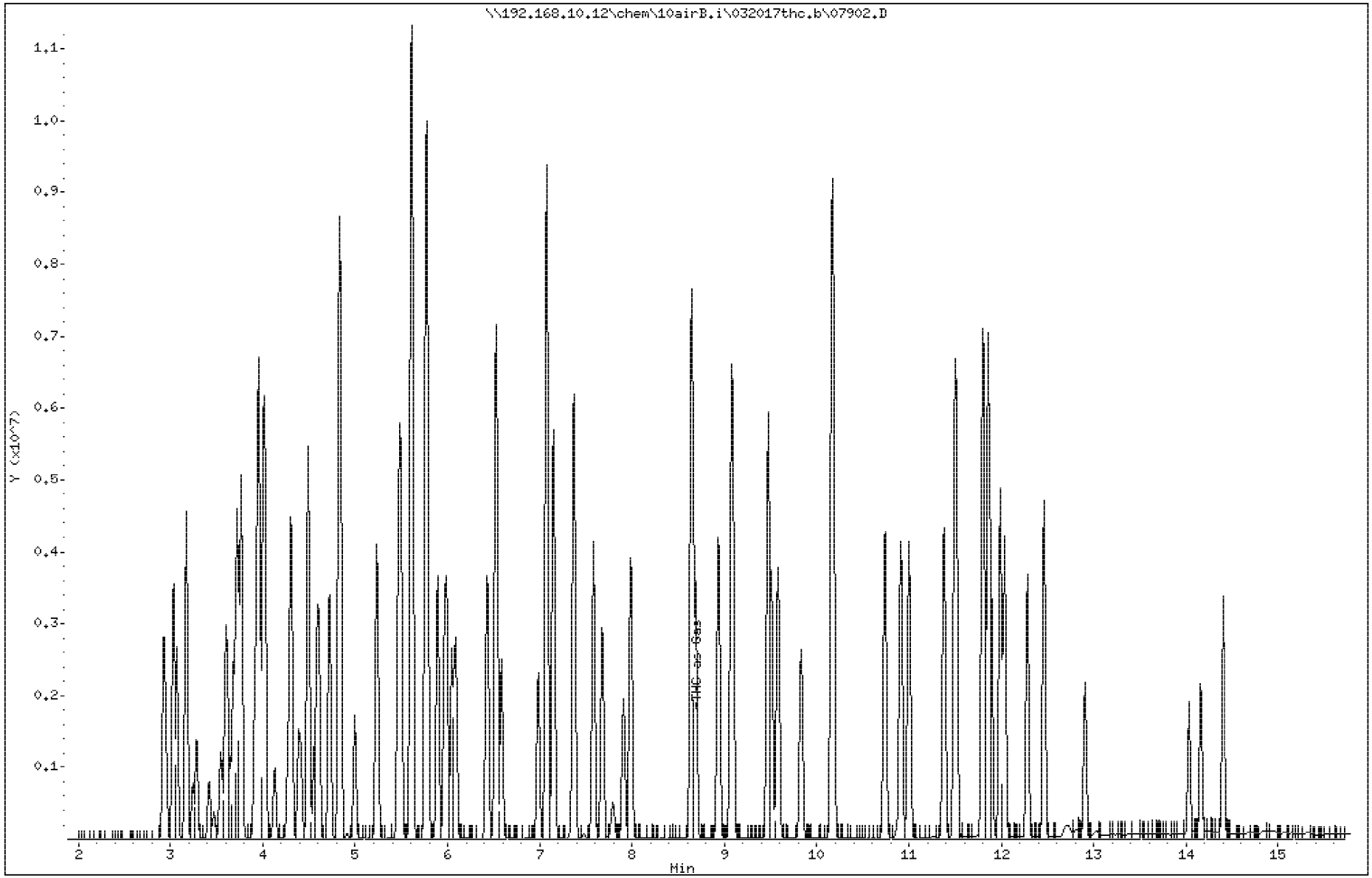
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: DB-624

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 21-MAR-2017 09:03
Lab File ID: 08002.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	8.29607	0.06313	0.010	-17.03933	30.00000	Quad		
	2 1,1-Difluoroethane	10.00000	11.43076	0.06904	0.010	14.30757	30.00000	Line		
	3 Chlorodifluoromethane	0.02938	0.02906	0.02906	0.010	-1.10328	30.00000	Aver		
	4 Propylene	0.09681	0.09306	0.09306	0.010	-3.87231	30.00000	Aver		
	5 Dichlorodifluoromethane	10.00000	11.36931	0.29275	0.010	13.69313	30.00000	Line		
	6 Chloromethane	0.14421	0.14802	0.14802	0.010	2.64617	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.28017	0.27660	0.27660	0.010	-1.27242	30.00000	Aver		
	8 Vinyl chloride	0.11085	0.11052	0.11052	0.010	-0.30095	30.00000	Aver		
	9 1,3-Butadiene	0.08971	0.08832	0.08832	0.010	-1.54515	30.00000	Aver		
	10 Bromomethane	0.07707	0.07763	0.07763	0.010	0.72943	30.00000	Aver		
	11 Chloroethane	0.04537	0.04555	0.04555	0.010	0.39134	30.00000	Aver		
	12 Ethanol	0.03744	0.04140	0.04140	0.005	10.58608	30.00000	Aver		
	13 Vinyl Bromide	0.07437	0.07602	0.07602	0.010	2.22515	30.00000	Aver		
	14 Isopentane	10.00000	11.30915	0.11352	0.010	13.09148	30.00000	Line		
	15 Freon 123	0.16404	0.08069	0.08069	0.010	-50.81160	30.00000	Aver		<-
	16 Trichlorofluoromethane	0.20235	0.20133	0.20133	0.010	-0.50423	30.00000	Aver		
	17 Acrolein	0.03403	0.03526	0.03526	0.010	3.61422	30.00000	Aver		
	18 Acetone	0.16163	0.15445	0.15445	0.010	-4.44193	30.00000	Aver		
	19 Isopropyl Alcohol	50.00000	57.30576	0.17347	0.010	14.61151	30.00000	Quad		
	20 1,1-Dichloroethene	0.14633	0.14955	0.14955	0.010	2.20079	30.00000	Aver		
	21 Acrylonitrile	0.07616	0.08247	0.08247	0.010	8.28384	30.00000	Aver		
	22 Freon 113	0.15418	0.15168	0.15168	0.010	-1.62048	30.00000	Aver		
	23 Methyl Acetate	0.24458	0.24674	0.24674	0.010	0.88353	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.18261	0.18990	0.18990	0.010	3.99135	30.00000	Aver		
	25 Methylene chloride	0.13288	0.11892	0.11892	0.010	-10.50910	30.00000	Aver		
	26 Allyl Chloride	0.02815	0.02970	0.02970	0.010	5.49378	30.00000	Aver		
	27 Carbon Disulfide	0.16459	0.17805	0.17805	0.010	8.17766	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.07105	0.07289	0.07289	0.010	2.57942	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.18305	0.18723	0.18723	0.010	2.28439	30.00000	Aver		
	30 Vinyl Acetate	0.24291	0.27066	0.27066	0.010	11.42415	30.00000	Aver		
	31 1,1-Dichloroethane	0.15414	0.15699	0.15699	0.010	1.85358	30.00000	Aver		
$	32 Hexane-d14(S)	0.34275	0.32701	0.32701	0.010	-4.59112	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.03727	0.03551	0.03551	0.010	-4.73533	30.00000	Aver		
	34 n-Hexane	0.17147	0.16395	0.16395	0.010	-4.38489	30.00000	Aver		
	35 Di-isopropyl Ether	0.35577	0.33680	0.33680	0.010	-5.33274	30.00000	Aver		
	36 Ethyl Acetate	0.24124	0.24659	0.24659	0.010	2.22053	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.08726	0.08734	0.08734	0.010	0.08569	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.32357	0.34625	0.34625	0.010	7.00824	30.00000	Aver		
	39 Chloroform	0.18227	0.18957	0.18957	0.010	4.00348	30.00000	Aver		
	40 Tetrahydrofuran	0.12801	0.14320	0.14320	0.010	11.86878	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.21412	0.22812	0.22812	0.010	6.53840	30.00000	Aver		
	42 1,2-Dichloroethane	0.17697	0.18024	0.18024	0.010	1.84628	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 21-MAR-2017 09:03
Lab File ID: 08002.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.28805	0.30658	0.30658	0.010	6.43208	30.00000	Aver		
	44 Carbon tetrachloride	0.20154	0.22758	0.22758	0.010	12.92054	30.00000	Aver		
	45 Cyclohexane	0.17372	0.19079	0.19079	0.010	9.82868	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.20715	0.27429	0.010	12.07154	30.00000	Line		
	48 2,2,4-Trimethylpentane	0.54027	0.57227	0.57227	0.010	5.92332	30.00000	Aver		
	49 Heptane	0.20304	0.22989	0.22989	0.010	13.22055	30.00000	Aver		
	50 1,2-Dichloropropane	0.11758	0.12899	0.12899	0.010	9.70620	30.00000	Aver		
	51 Trichloroethene	0.13467	0.14688	0.14688	0.010	9.06950	30.00000	Aver		
	52 Methyl methacrylate	0.09348	0.11031	0.11031	0.010	17.99894	30.00000	Aver		
	53 1,4-Dioxane	0.06410	0.07483	0.07483	0.010	16.73626	30.00000	Aver		
	54 Bromodichloromethane	0.20374	0.23073	0.23073	0.010	13.24921	30.00000	Aver		
	55 Methylcyclohexane	0.07695	0.08830	0.08830	0.010	14.75128	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.26760	0.31541	0.31541	0.010	17.86832	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.14748	0.18112	0.18112	0.010	22.80912	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	10.73108	0.16894	0.010	7.31085	30.00000	Line		
$	59 Toluene-d8 (S)	0.92086	0.91904	0.91904	0.010	-0.19795	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.11528	0.12756	0.12756	0.010	10.64954	30.00000	Aver		
	61 Toluene	0.33450	0.37449	0.37449	0.010	11.95481	30.00000	Aver		
	62 Methyl Butyl Ketone	25.00000	27.53824	0.41632	0.010	10.15295	30.00000	Quad		
	63 n-Octane	0.36754	0.44495	0.44495	0.010	21.06178	30.00000	Aver		
	64 Dibromochloromethane	0.26568	0.35365	0.35365	0.010	33.11075	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.25639	0.31257	0.31257	0.010	21.91165	30.00000	Aver		
	66 Tetrachloroethene	0.22684	0.26317	0.26317	0.010	16.01620	30.00000	Aver		
	68 Chlorobenzene	0.36404	0.43625	0.43625	0.010	19.83553	30.00000	Aver		
	69 Ethyl Benzene	0.57874	0.72806	0.72806	0.010	25.80035	30.00000	Aver		
	70 m&p-Xylene	20.00000	22.12197	0.54459	0.010	10.60987	30.00000	Quad		
	71 n-Nonane	0.30806	0.40523	0.40523	0.010	31.54232	30.00000	Aver		<-
	72 Bromoform	10.00000	10.92906	0.27056	0.010	9.29065	30.00000	Quad		
	73 Styrene	10.00000	10.87525	0.41197	0.010	8.75247	30.00000	Quad		
	74 o-Xylene	0.44491	0.55344	0.55344	0.010	24.39387	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	10.00000	10.87164	0.33009	0.010	8.71639	30.00000	Quad		
	76 Isopropylbenzene	0.59339	0.71328	0.71328	0.010	20.20294	30.00000	Aver		
	77 N-Propylbenzene	10.00000	10.81387	0.86170	0.010	8.13866	30.00000	Quad		
	78 4-Ethyltoluene	10.00000	10.88036	0.72406	0.010	8.80358	30.00000	Quad		
	79 1,3,5-Trimethylbenzene	10.00000	10.94467	0.60089	0.010	9.44667	30.00000	Quad		
	80 n-Decane	0.20034	0.28502	0.28502	0.010	42.26561	30.00000	Aver		<-
	81 Tert-Butyl Benzene	10.00000	11.04959	0.61043	0.010	10.49589	30.00000	Quad		
	82 1,2,4-Trimethylbenzene	10.00000	11.14657	0.55441	0.010	11.46571	30.00000	Quad		
	83 1,3-Dichlorobenzene	10.00000	11.01486	0.33596	0.010	10.14862	30.00000	Quad		
	84 Sec- Butylbenzene	10.00000	11.02370	0.78756	0.010	10.23697	30.00000	Quad		
$	85 1,4-dichlorobenzene-d4 (S)	0.48257	0.50822	0.50822	0.010	5.31509	30.00000	Aver	(M)	
	86 Benzyl Chloride	10.00000	11.25968	0.34510	0.010	12.59680	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 21-MAR-2017 09:03
Lab File ID: 08002.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	10.00000	10.96511	0.32802	0.010	9.65111	30.00000	Quad	
88 p-Isopropyltoluene	10.00000	12.32699	0.65896	0.010	23.26986	30.00000	Line	
89 1,2,3-Trimethylbenzene	10.00000	10.93975	0.53047	0.010	9.39752	30.00000	Quad	
90 1,2-Dichlorobenzene	10.00000	11.50869	0.31163	0.010	15.08690	30.00000	Line	
91 N-Butylbenzene	10.00000	10.81866	0.54317	0.010	8.18661	30.00000	Quad	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.47359	0.11122	0.010	4.73585	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	11.19546	0.10173	0.010	11.95464	30.00000	Quad	
94 Naphthalene	10.00000	10.09637	0.30173	0.010	0.96368	30.00000	Line	
95 Hexachlorobutadiene	0.12598	0.12370	0.12370	0.010	-1.80768	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.
Calculated Average %D/Drift = 10.28784
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Lab Smp Id: ccv
Inj Date : 21-MAR-2017 09:03
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 21-Mar-2017 09:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.947	(0.525)	397193	10.0000	8.30
2	1,1-Difluoroethane	65	3.018	3.018	(0.538)	434395	10.0000	11.4
3	Chlorodifluoromethane	67	3.028	3.028	(0.539)	182812	10.0000	9.89
4	Propylene	41	3.031	3.031	(0.540)	585489	10.0000	9.61
5	Dichlorodifluoromethane	85	3.063	3.063	(0.546)	1841831	10.0000	11.4
6	Chloromethane	50	3.160	3.160	(0.563)	931294	10.0000	10.3
7	Dichlorotetrafluoroethane	85	3.166	3.166	(0.564)	1740266	10.0000	9.87
8	Vinyl chloride	62	3.237	3.237	(0.577)	695336	10.0000	9.97
9	1,3-Butadiene	54	3.275	3.275	(0.584)	555680	10.0000	9.85
10	Bromomethane	94	3.414	3.414	(0.608)	488402	10.0000	10.1
11	Chloroethane	64	3.468	3.468	(0.618)	286567	10.0000	10.0
12	Ethanol	45	3.545	3.545	(0.632)	1302371	50.0000	55.3
13	Vinyl Bromide	106	3.581	3.581	(0.638)	478288	10.0000	10.2
14	Isopentane	43	3.603	3.603	(0.642)	714232	10.0000	11.3
15	Freon 123	83	3.603	3.603	(0.642)	507668	10.0000	4.92
16	Trichlorofluoromethane	101	3.674	3.674	(0.655)	1266696	10.0000	9.95
17	Acrolein	56	3.687	3.687	(0.657)	554566	25.0000	25.9
18	Acetone	43	3.722	3.722	(0.663)	4858799	50.0000	47.8
19	Isopropyl Alcohol	45	3.767	3.767	(0.671)	5457078	50.0000	57.3
20	1,1-Dichloroethene	61	3.912	3.912	(0.697)	940907	10.0000	10.2
21	Acrylonitrile	53	3.928	3.928	(0.700)	1297160	25.0000	27.1
22	Freon 113	101	3.947	3.947	(0.703)	954302	10.0000	9.84
23	Methyl Acetate	43	3.960	3.960	(0.706)	1552400	10.0000	10.1

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.957	(0.705)	2986928	25.0000	26.0
	25 Methylene chloride	49	4.005	4.005	(0.714)	3740878	50.0000	44.7
	26 Allyl Chloride	76	4.021	4.021	(0.716)	467128	25.0000	26.4
	27 Carbon Disulfide	76	4.124	4.124	(0.735)	1120203	10.0000	10.8
	28 trans-1,2-dichloroethene	96	4.282	4.282	(0.763)	458571	10.0000	10.3
	29 Methyl Tert Butyl Ether	73	4.307	4.307	(0.767)	2944998	25.0000	25.6
	30 Vinyl Acetate	43	4.391	4.391	(0.782)	1702861	10.0000	11.1
	31 1,1-Dichloroethane	63	4.414	4.414	(0.786)	987730	10.0000	10.2
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	2057414	10.0000	9.54
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	223405	10.0000	9.53
	34 n-Hexane	57	4.587	4.587	(0.817)	1031517	10.0000	9.56
	35 Di-isopropyl Ether	45	4.606	4.606	(0.821)	2119015	10.0000	9.47
	36 Ethyl Acetate	43	4.719	4.719	(0.841)	1551465	10.0000	10.2
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	549475	10.0000	10.0
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.861)	5446145	25.0000	26.8
	39 Chloroform	83	4.841	4.841	(0.863)	1192687	10.0000	10.4
	40 Tetrahydrofuran	42	4.992	4.992	(0.889)	900947	10.0000	11.2
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	1435241	10.0000	10.7
	42 1,2-Dichloroethane	62	5.237	5.237	(0.933)	1133987	10.0000	10.2
	43 Benzene	78	5.468	5.468	(0.974)	1928886	10.0000	10.6
	44 Carbon tetrachloride	117	5.487	5.487	(0.978)	1431868	10.0000	11.3
	45 Cyclohexane	56	5.491	5.491	(0.978)	1200385	10.0000	11.0
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	1725742	10.0000	11.2
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	6291578	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.028)	9001173	25.0000	26.5
	49 Heptane	43	5.893	5.893	(1.050)	1446356	10.0000	11.3
	50 1,2-Dichloropropane	63	5.970	5.970	(1.064)	811561	10.0000	11.0
	51 Trichloroethene	130	5.989	5.989	(1.067)	924105	10.0000	10.9
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	694026	10.0000	11.8
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	470813	10.0000	11.7
	54 Bromodichloromethane	83	6.086	6.086	(1.084)	1451655	10.0000	11.3
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	555525	10.0000	11.5
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	4961099	25.0000	29.5
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	1139519	10.0000	12.3
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	1062896	10.0000	10.7
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	5782192	10.0000	9.98
	60 1,1,2-Trichloroethane	97	7.147	7.147	(1.273)	802549	10.0000	11.1
	61 Toluene	91	7.153	7.153	(1.274)	2356109	10.0000	11.2
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	4508680	25.0000	27.5
	63 n-Octane	43	7.584	7.584	(0.877)	1927500	10.0000	12.1
	64 Dibromochloromethane	129	7.680	7.680	(0.888)	1531992	10.0000	13.3
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	1354061	10.0000	12.2
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	1140036	10.0000	11.6
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	4331960	10.0000	
	68 Chlorobenzene	112	8.690	8.690	(1.005)	1889835	10.0000	12.0
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	3153929	10.0000	12.6
	70 m&p-Xylene	91	9.079	9.079	(1.050)	4718250	20.0000	22.1
	71 n-Nonane	43	9.468	9.468	(1.095)	1755449	10.0000	13.2
	72 Bromoform	173	9.481	9.481	(1.097)	1172067	10.0000	10.9
	73 Styrene	104	9.507	9.507	(1.100)	1784644	10.0000	10.9
	74 o-Xylene	91	9.577	9.577	(1.108)	2397489	10.0000	12.4
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1429938	10.0000	10.9
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	3089880	10.0000	12.0
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	3732855	10.0000	10.8

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	3136615	10.0000	10.9
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.272)	2603051	10.0000	10.9
80	n-Decane	57	11.378	11.378	(2.027)	1793233	10.0000	14.2
81	Tert-Butyl Benzene	119	11.494	11.494	(1.329)	2644375	10.0000	11.0
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.331)	2401663	10.0000	11.1
83	1,3-Dichlorobenzene	146	11.793	11.793	(1.364)	1455346	10.0000	11.0
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	3411687	10.0000	11.0
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	2201578	10.0000	10.5(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	1494941	10.0000	11.3
87	1,4-Dichlorobenzene	146	11.886	11.886	(1.375)	1420976	10.0000	11.0
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	2854575	10.0000	12.3
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	2297958	10.0000	10.9
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.420)	1349948	10.0000	11.5
91	N-Butylbenzene	91	12.458	12.458	(1.441)	2352986	10.0000	10.8
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	481797	10.0000	10.5
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.623)	440676	10.0000	11.2
94	Naphthalene	128	14.159	14.159	(1.638)	1307066	10.0000	10.1
95	Hexachlorobutadiene	225	14.407	14.407	(1.666)	535873	10.0000	9.82

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08002.D
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info:

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

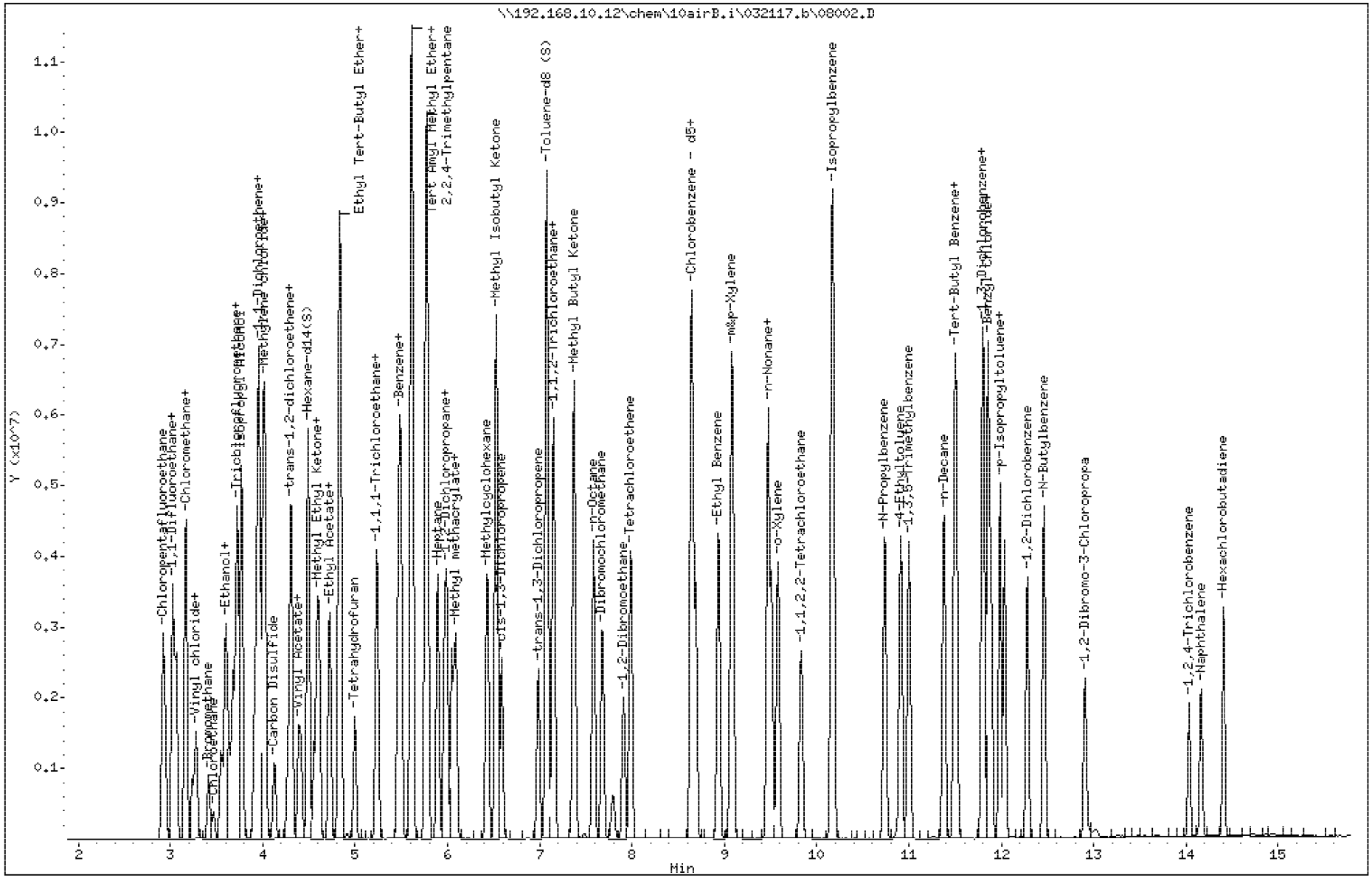
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6291578	-17.66
67 Chlorobenzene - d	5205948	3123569	7288327	4331960	-16.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.61	-0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

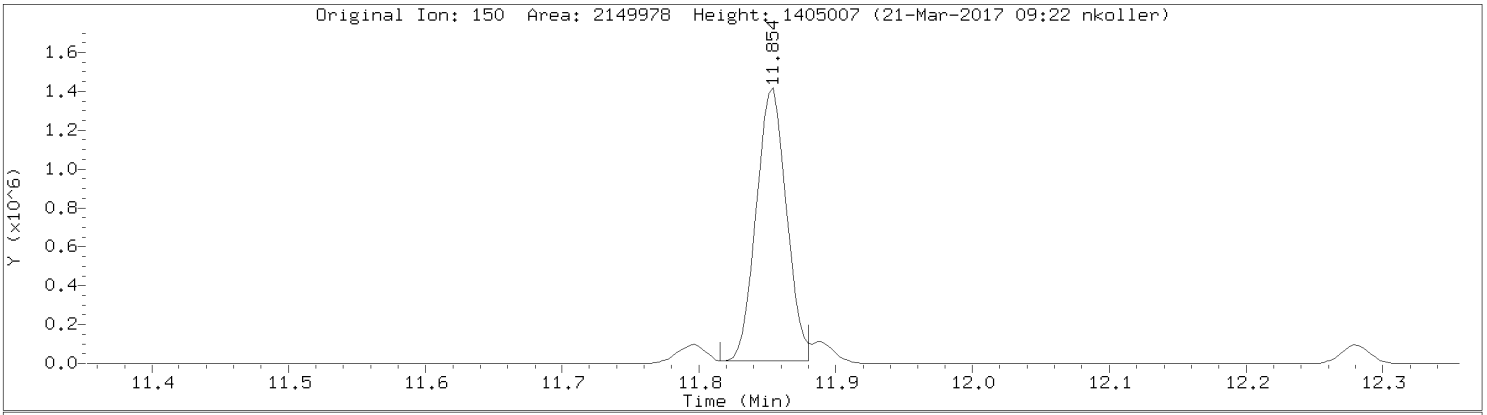
Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Date : 21-MAR-2017 09:03
Client ID:
Sample Info:

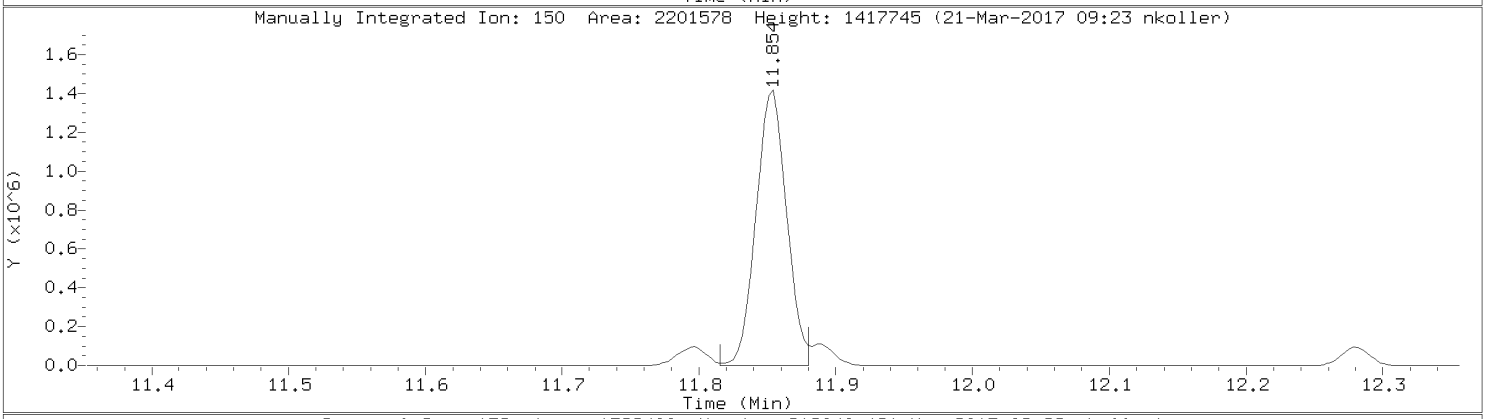
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

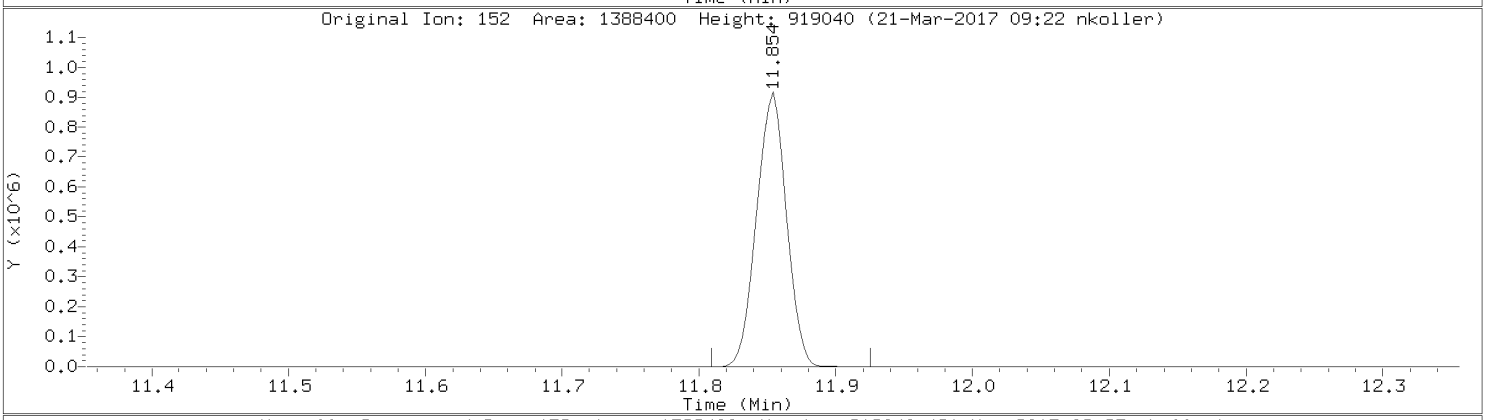


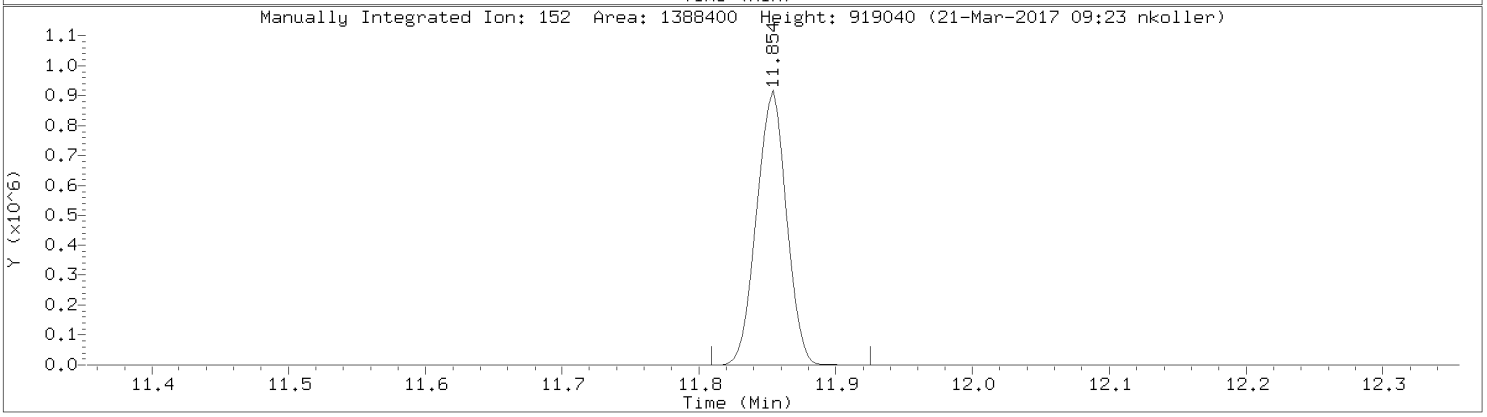
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08002.D
Injection Date: 21-MAR-2017 09:03
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 22-MAR-2017 09:05
Lab File ID: 08102.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	8.26202	0.06295	0.010	-17.37975	30.00000	Quad		
	2 1,1-Difluoroethane	10.00000	11.57799	0.06992	0.010	15.77987	30.00000	Line		
	3 Chlorodifluoromethane	0.02938	0.03059	0.03059	0.010	4.11338	30.00000	Aver	(M)	
	4 Propylene	0.09681	0.09590	0.09590	0.010	-0.93938	30.00000	Aver	(H)	
	5 Dichlorodifluoromethane	10.00000	11.84605	0.30471	0.010	18.46046	30.00000	Line	(H)	
	6 Chloromethane	0.14421	0.15474	0.15474	0.010	7.30661	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.28017	0.28847	0.28847	0.010	2.96519	30.00000	Aver		
	8 Vinyl chloride	0.11085	0.11404	0.11404	0.010	2.87457	30.00000	Aver		
	9 1,3-Butadiene	0.08971	0.09234	0.09234	0.010	2.93655	30.00000	Aver		
	10 Bromomethane	0.07707	0.08089	0.08089	0.010	4.96003	30.00000	Aver		
	11 Chloroethane	0.04537	0.04730	0.04730	0.010	4.25596	30.00000	Aver		
	12 Ethanol	0.03744	0.04373	0.04373	0.005	16.80429	30.00000	Aver		
	13 Vinyl Bromide	0.07437	0.07855	0.07855	0.010	5.63298	30.00000	Aver		
	14 Isopentane	10.00000	11.84605	0.11879	0.010	18.46046	30.00000	Line		
	15 Freon 123	0.16404	0.08442	0.08442	0.010	-48.53767	30.00000	Aver		<-
	16 Trichlorofluoromethane	0.20235	0.20883	0.20883	0.010	3.20014	30.00000	Aver		
	17 Acrolein	0.03403	0.03597	0.03597	0.010	5.69665	30.00000	Aver		
	18 Acetone	0.16163	0.16504	0.16504	0.010	2.10679	30.00000	Aver		
	19 Isopropyl Alcohol	50.00000	60.07602	0.18076	0.010	20.15204	30.00000	Quad		
	20 1,1-Dichloroethene	0.14633	0.15539	0.15539	0.010	6.19431	30.00000	Aver		
	21 Acrylonitrile	0.07616	0.08678	0.08678	0.010	13.94560	30.00000	Aver		
	22 Freon 113	0.15418	0.15524	0.15524	0.010	0.69188	30.00000	Aver		
	23 Methyl Acetate	0.24458	0.25867	0.25867	0.010	5.75864	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.18261	0.19401	0.19401	0.010	6.24369	30.00000	Aver		
	25 Methylene chloride	0.13288	0.12491	0.12491	0.010	-6.00023	30.00000	Aver		
	26 Allyl Chloride	0.02815	0.03015	0.03015	0.010	7.11040	30.00000	Aver		
	27 Carbon Disulfide	0.16459	0.18530	0.18530	0.010	12.58583	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.07105	0.07616	0.07616	0.010	7.18618	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.18305	0.19392	0.19392	0.010	5.93796	30.00000	Aver		
	30 Vinyl Acetate	0.24291	0.28594	0.28594	0.010	17.71440	30.00000	Aver		
	31 1,1-Dichloroethane	0.15414	0.16564	0.16564	0.010	7.46151	30.00000	Aver		
$	32 Hexane-d14(S)	0.34275	0.33493	0.33493	0.010	-2.27921	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.03727	0.03656	0.03656	0.010	-1.91885	30.00000	Aver		
	34 n-Hexane	0.17147	0.17089	0.17089	0.010	-0.33606	30.00000	Aver		
	35 Di-isopropyl Ether	0.35577	0.34851	0.34851	0.010	-2.04181	30.00000	Aver		
	36 Ethyl Acetate	0.24124	0.28246	0.28246	0.010	17.09014	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.08726	0.09802	0.09802	0.010	12.32705	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.32357	0.35692	0.35692	0.010	10.30733	30.00000	Aver		
	39 Chloroform	0.18227	0.19830	0.19830	0.010	8.79153	30.00000	Aver		
	40 Tetrahydrofuran	0.12801	0.14833	0.14833	0.010	15.87700	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.21412	0.23634	0.23634	0.010	10.37731	30.00000	Aver		
	42 1,2-Dichloroethane	0.17697	0.18836	0.18836	0.010	6.43648	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 22-MAR-2017 09:05
Lab File ID: 08102.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.28805	0.31690	0.31690	0.010	10.01227	30.00000	Aver		
	44 Carbon tetrachloride	0.20154	0.23711	0.23711	0.010	17.64444	30.00000	Aver		
	45 Cyclohexane	0.17372	0.19885	0.19885	0.010	14.46464	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.49870	0.28113	0.010	14.98696	30.00000	Line		
	48 2,2,4-Trimethylpentane	0.54027	0.59180	0.59180	0.010	9.53784	30.00000	Aver		
	49 Heptane	0.20304	0.23572	0.23572	0.010	16.09286	30.00000	Aver		
	50 1,2-Dichloropropane	0.11758	0.13322	0.13322	0.010	13.30216	30.00000	Aver		
	51 Trichloroethene	0.13467	0.14777	0.14777	0.010	9.72839	30.00000	Aver		
	52 Methyl methacrylate	0.09348	0.11117	0.11117	0.010	18.91564	30.00000	Aver		
	53 1,4-Dioxane	0.06410	0.07557	0.07557	0.010	17.88162	30.00000	Aver		
	54 Bromodichloromethane	0.20374	0.23749	0.23749	0.010	16.56926	30.00000	Aver		
	55 Methylcyclohexane	0.07695	0.08983	0.08983	0.010	16.74155	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.26760	0.32123	0.32123	0.010	20.04151	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.14748	0.18404	0.18404	0.010	24.78715	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	10.94912	0.17240	0.010	9.49116	30.00000	Line		
$	59 Toluene-d8 (S)	0.92086	0.91571	0.91571	0.010	-0.55970	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.11528	0.12952	0.12952	0.010	12.35159	30.00000	Aver		
	61 Toluene	0.33450	0.37948	0.37948	0.010	13.44792	30.00000	Aver		
	62 Methyl Butyl Ketone	25.00000	29.08593	0.43658	0.010	16.34371	30.00000	Quad		
	63 n-Octane	0.36754	0.46631	0.46631	0.010	26.87460	30.00000	Aver		
	64 Dibromochloromethane	0.26568	0.36153	0.36153	0.010	36.07895	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.25639	0.31973	0.31973	0.010	24.70268	30.00000	Aver		
	66 Tetrachloroethene	0.22684	0.27160	0.27160	0.010	19.73388	30.00000	Aver		
	68 Chlorobenzene	0.36404	0.43865	0.43865	0.010	20.49447	30.00000	Aver		
	69 Ethyl Benzene	0.57874	0.74205	0.74205	0.010	28.21790	30.00000	Aver		
	70 m&p-Xylene	20.00000	22.73943	0.55795	0.010	13.69716	30.00000	Quad		
	71 n-Nonane	0.30806	0.42559	0.42559	0.010	38.14936	30.00000	Aver		<-
	72 Bromoform	10.00000	10.99290	0.27205	0.010	9.92902	30.00000	Quad		
	73 Styrene	10.00000	11.15355	0.42180	0.010	11.53551	30.00000	Quad		
	74 o-Xylene	0.44491	0.56723	0.56723	0.010	27.49191	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	10.00000	11.15855	0.33832	0.010	11.58549	30.00000	Quad		
	76 Isopropylbenzene	0.59339	0.74866	0.74866	0.010	26.16655	30.00000	Aver		
	77 N-Propylbenzene	10.00000	11.37056	0.90226	0.010	13.70560	30.00000	Quad		
	78 4-Ethyltoluene	10.00000	11.33509	0.75216	0.010	13.35094	30.00000	Quad		
	79 1,3,5-Trimethylbenzene	10.00000	11.38702	0.62341	0.010	13.87020	30.00000	Quad		
	80 n-Decane	0.20034	0.29032	0.29032	0.010	44.91268	30.00000	Aver		<-
	81 Tert-Butyl Benzene	10.00000	11.47928	0.63217	0.010	14.79284	30.00000	Quad		
	82 1,2,4-Trimethylbenzene	10.00000	11.44152	0.56765	0.010	14.41524	30.00000	Quad		
	83 1,3-Dichlorobenzene	10.00000	11.37181	0.34628	0.010	13.71811	30.00000	Quad		
	84 Sec- Butylbenzene	10.00000	11.43986	0.81398	0.010	14.39863	30.00000	Quad		
$	85 1,4-dichlorobenzene-d4 (S)	0.48257	0.54447	0.54447	0.010	12.82706	30.00000	Aver		
	86 Benzyl Chloride	10.00000	11.36345	0.34834	0.010	13.63451	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 22-MAR-2017 09:05
Lab File ID: 08102.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	10.00000	11.19946	0.33482	0.010	11.99464	30.00000	Quad	
88 p-Isopropyltoluene	10.00000	12.59635	0.67314	0.010	25.96350	30.00000	Line	
89 1,2,3-Trimethylbenzene	10.00000	11.30989	0.54704	0.010	13.09886	30.00000	Quad	
90 1,2-Dichlorobenzene	10.00000	11.57203	0.31335	0.010	15.72034	30.00000	Line	
91 N-Butylbenzene	10.00000	11.12389	0.55754	0.010	11.23887	30.00000	Quad	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.64013	0.11303	0.010	6.40133	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	11.04469	0.10013	0.010	10.44694	30.00000	Quad	
94 Naphthalene	10.00000	10.09732	0.30176	0.010	0.97322	30.00000	Line	
95 Hexachlorobutadiene	0.12598	0.12372	0.12372	0.010	-1.79610	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 13.13972
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Lab Smp Id: ccv
Inj Date : 22-MAR-2017 09:05
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Meth Date : 22-Mar-2017 11:20 10airB.i Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.954	2.954	(0.526)	376379	10.0000	8.26
2	1,1-Difluoroethane	65	3.025	3.025	(0.539)	418016	10.0000	11.6
3	Chlorodifluoromethane	67	3.034	3.034	(0.541)	182883	10.0000	10.4(M)
4	Propylene	41	3.037	3.037	(0.541)	573344	10.0000	9.91(H)
5	Dichlorodifluoromethane	85	3.070	3.070	(0.547)	1821784	10.0000	11.8(H)
6	Chloromethane	50	3.166	3.166	(0.564)	925155	10.0000	10.7
7	Dichlorotetrafluoroethane	85	3.172	3.172	(0.565)	1724692	10.0000	10.3
8	Vinyl chloride	62	3.243	3.243	(0.578)	681798	10.0000	10.3
9	1,3-Butadiene	54	3.285	3.285	(0.585)	552079	10.0000	10.3
10	Bromomethane	94	3.420	3.420	(0.609)	483603	10.0000	10.5
11	Chloroethane	64	3.471	3.471	(0.619)	282797	10.0000	10.4
12	Ethanol	45	3.549	3.549	(0.632)	1307185	50.0000	58.4
13	Vinyl Bromide	106	3.590	3.590	(0.640)	469651	10.0000	10.6
14	Isopentane	43	3.606	3.606	(0.643)	710176	10.0000	11.8
15	Freon 123	83	3.606	3.606	(0.643)	504720	10.0000	5.15
16	Trichlorofluoromethane	101	3.677	3.677	(0.655)	1248510	10.0000	10.3
17	Acrolein	56	3.687	3.687	(0.657)	537575	25.0000	26.4
18	Acetone	43	3.722	3.722	(0.663)	4933557	50.0000	51.1
19	Isopropyl Alcohol	45	3.770	3.770	(0.672)	5403368	50.0000	60.1
20	1,1-Dichloroethene	61	3.915	3.915	(0.698)	929047	10.0000	10.6
21	Acrylonitrile	53	3.931	3.931	(0.700)	1297094	25.0000	28.5
22	Freon 113	101	3.954	3.954	(0.704)	928153	10.0000	10.1
23	Methyl Acetate	43	3.963	3.963	(0.706)	1546476	10.0000	10.6
24	Tert Butyl Alcohol (TBA)	59	3.960	3.960	(0.706)	2899844	25.0000	26.6

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	25 Methylene chloride	49	4.012	4.012	(0.715)	3733924	50.0000	47.0
	26 Allyl Chloride	76	4.021	4.021	(0.716)	450697	25.0000	26.8
	27 Carbon Disulfide	76	4.131	4.131	(0.736)	1107865	10.0000	11.3
	28 trans-1,2-dichloroethene	96	4.282	4.282	(0.763)	455333	10.0000	10.7
	29 Methyl Tert Butyl Ether	73	4.307	4.307	(0.767)	2898486	25.0000	26.5
	30 Vinyl Acetate	43	4.391	4.391	(0.782)	1709517	10.0000	11.8
	31 1,1-Dichloroethane	63	4.414	4.414	(0.786)	990282	10.0000	10.7
$	32 Hexane-d14(S)	66	4.494	4.494	(0.801)	2002460	10.0000	9.77
	33 Methyl Ethyl Ketone	72	4.558	4.558	(0.812)	218570	10.0000	9.81
	34 n-Hexane	57	4.587	4.587	(0.817)	1021720	10.0000	9.97
	35 Di-isopropyl Ether	45	4.606	4.606	(0.821)	2083622	10.0000	9.80
	36 Ethyl Acetate	43	4.719	4.719	(0.841)	1688761	10.0000	11.7
	37 cis-1,2-Dichloroethene	96	4.729	4.729	(0.842)	586009	10.0000	11.2
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.861)	5334827	25.0000	27.6
	39 Chloroform	83	4.844	4.844	(0.863)	1185544	10.0000	10.9
	40 Tetrahydrofuran	42	4.995	4.995	(0.890)	886812	10.0000	11.6
	41 1,1,1-Trichloroethane	97	5.233	5.233	(0.932)	1413001	10.0000	11.0
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	1126153	10.0000	10.6
	43 Benzene	78	5.468	5.468	(0.974)	1894607	10.0000	11.0
	44 Carbon tetrachloride	117	5.487	5.487	(0.978)	1417573	10.0000	11.8
	45 Cyclohexane	56	5.491	5.491	(0.978)	1188831	10.0000	11.4
	46 Tert Amyl Methyl Ether	73	5.606	5.606	(0.999)	1680752	10.0000	11.5
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	5978656	10.0000	
	48 2,2,4-Trimethylpentane	57	5.774	5.774	(1.029)	8845363	25.0000	27.4
	49 Heptane	43	5.893	5.893	(1.050)	1409287	10.0000	11.6
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	796475	10.0000	11.3
	51 Trichloroethene	130	5.989	5.989	(1.067)	883448	10.0000	11.0
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	664631	10.0000	11.9
	53 1,4-Dioxane	88	6.069	6.069	(1.081)	451786	10.0000	11.8
	54 Bromodichloromethane	83	6.085	6.085	(1.084)	1419895	10.0000	11.7
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	537051	10.0000	11.7
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	4801271	25.0000	30.0
	57 cis-1,3-Dichloropropene	75	6.590	6.590	(1.174)	1100284	10.0000	12.5
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	1030740	10.0000	10.9
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	5474689	10.0000	9.94
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	774364	10.0000	11.2
	61 Toluene	91	7.153	7.153	(1.274)	2268784	10.0000	11.3
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	4411664	25.0000	29.1
	63 n-Octane	43	7.584	7.584	(0.877)	1884844	10.0000	12.7
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	1461328	10.0000	13.6
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	1292356	10.0000	12.5
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	1097818	10.0000	12.0
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	4042014	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	1773041	10.0000	12.0
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	2999384	10.0000	12.8
	70 m&p-Xylene	91	9.082	9.082	(1.051)	4510485	20.0000	22.7
	71 n-Nonane	43	9.471	9.471	(1.096)	1720224	10.0000	13.8
	72 Bromoform	173	9.481	9.481	(1.097)	1099648	10.0000	11.0
	73 Styrene	104	9.507	9.507	(1.100)	1704904	10.0000	11.2
	74 o-Xylene	91	9.577	9.577	(1.108)	2292734	10.0000	12.7
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1367502	10.0000	11.2
	76 Isopropylbenzene	105	10.159	10.159	(1.175)	3026106	10.0000	12.6
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	3646966	10.0000	11.4
	78 4-Ethyltoluene	105	10.912	10.912	(1.262)	3040246	10.0000	11.3

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.272)	2519825	10.0000	11.4
80	n-Decane	57	11.378	11.378	(2.027)	1735750	10.0000	14.5
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2555259	10.0000	11.5
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.331)	2294464	10.0000	11.4
83	1,3-Dichlorobenzene	146	11.793	11.793	(1.364)	1399685	10.0000	11.4
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	3290131	10.0000	11.4
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.371)	2200747	10.0000	11.3
86	Benzyl Chloride	91	11.863	11.863	(1.372)	1408011	10.0000	11.4
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	1353364	10.0000	11.2
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	2720824	10.0000	12.6
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	2211152	10.0000	11.3
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.420)	1266555	10.0000	11.6
91	N-Butylbenzene	91	12.461	12.461	(1.441)	2253589	10.0000	11.1
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	456851	10.0000	10.6
93	1,2,4-Trichlorobenzene	180	14.027	14.027	(1.623)	404730	10.0000	11.0
94	Naphthalene	128	14.159	14.159	(1.638)	1219702	10.0000	10.1
95	Hexachlorobutadiene	225	14.407	14.407	(1.666)	500065	10.0000	9.82

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08102.D
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m
Misc Info:

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

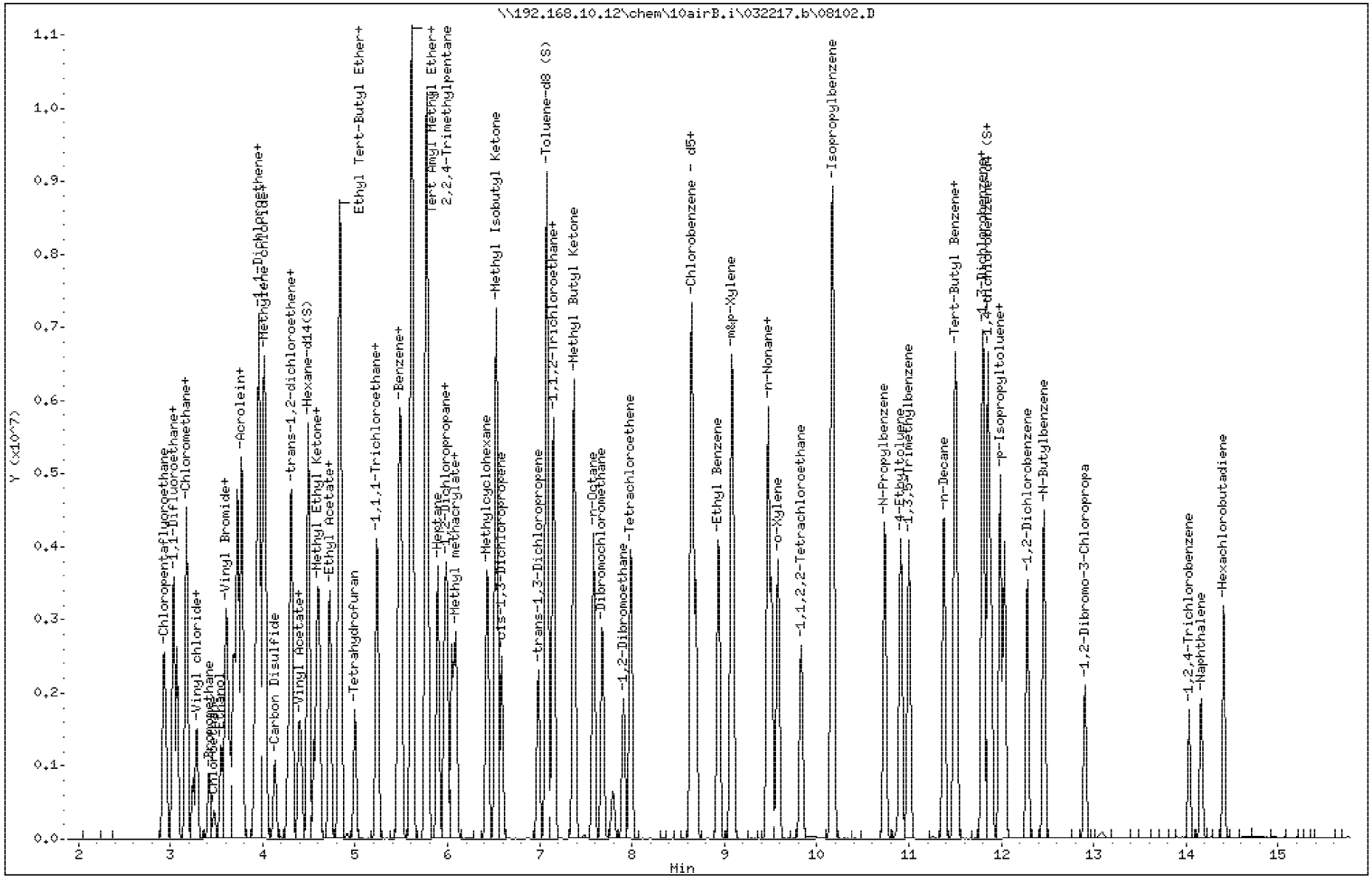
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	5978656	-21.76
67 Chlorobenzene - d	5205948	3123569	7288327	4042014	-22.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.61	-0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

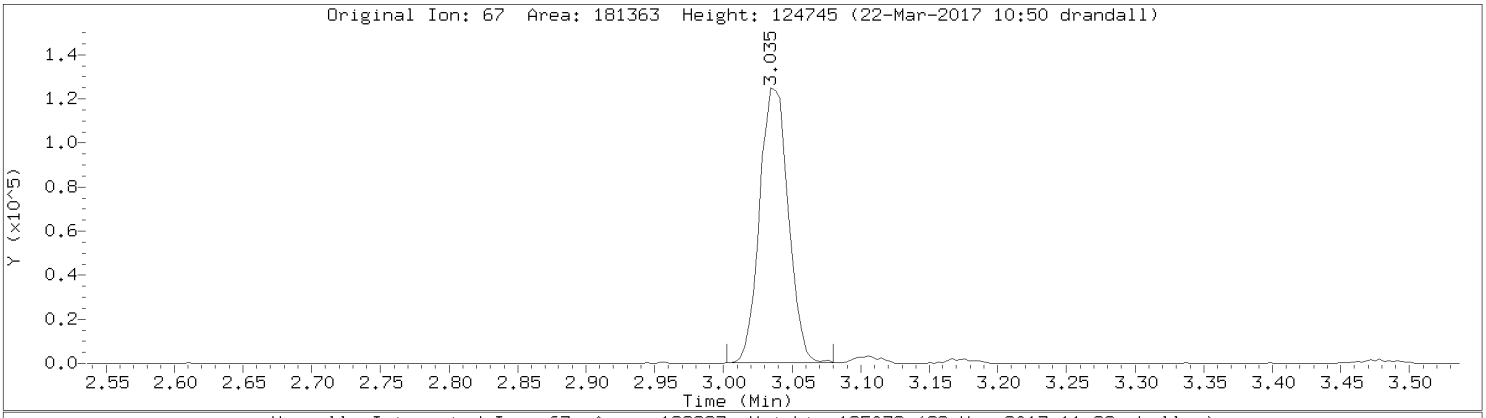
Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Date : 22-MAR-2017 09:05
Client ID:
Sample Info:

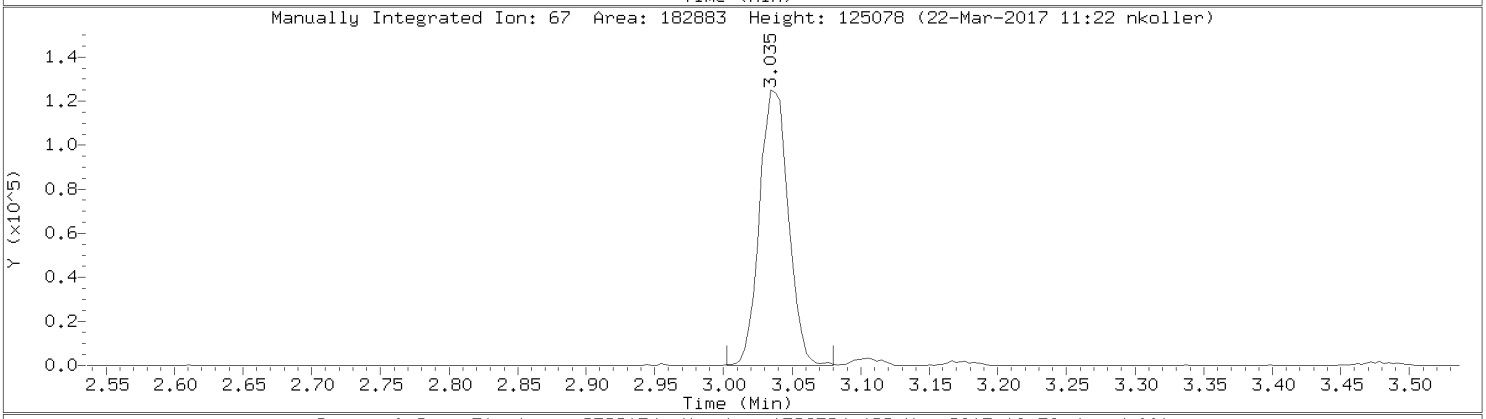
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

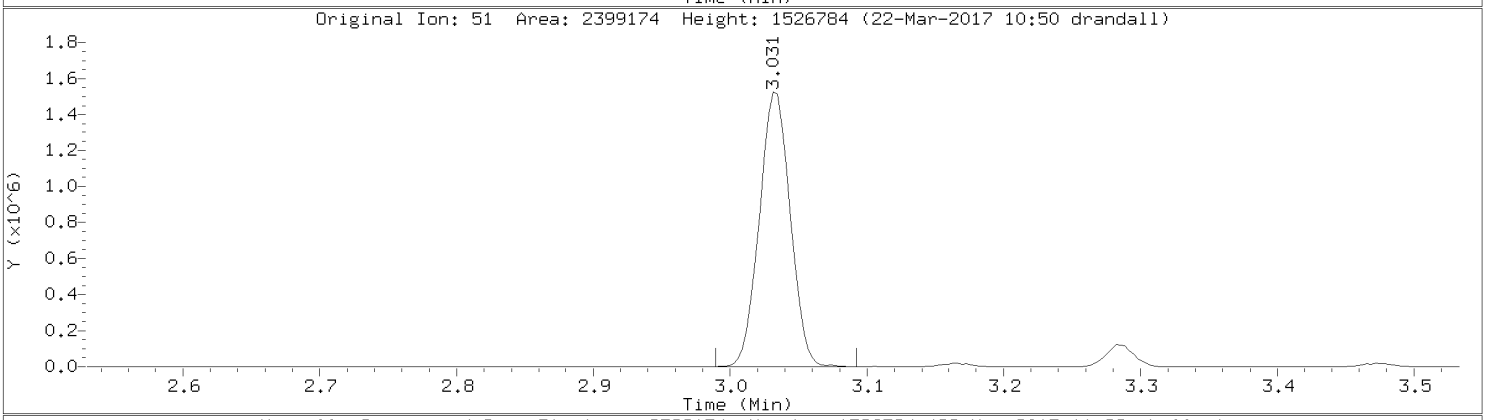


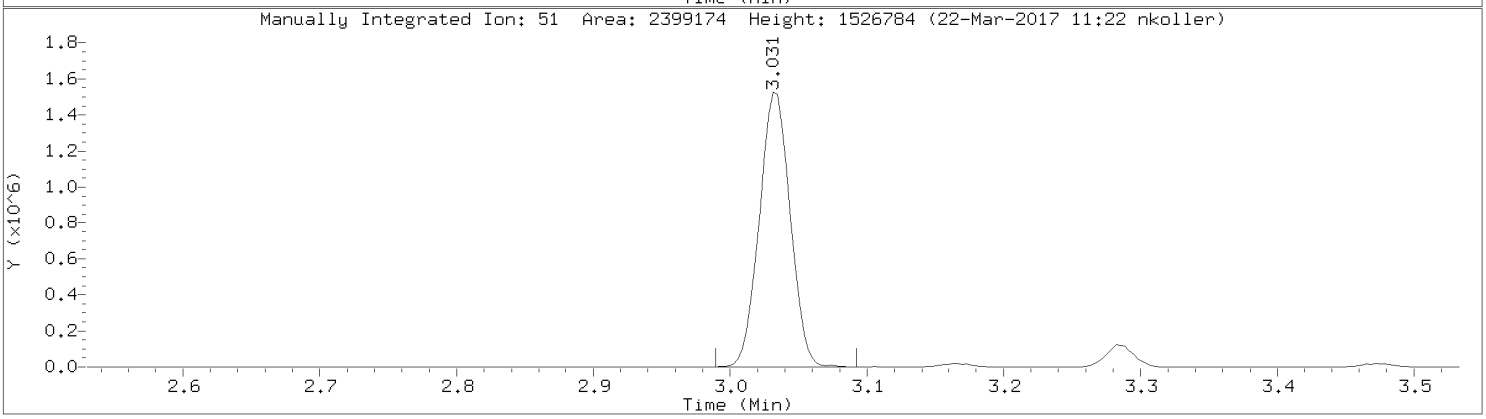
Data File: \\192.168.10.12\chem\10airB.i\032217.b/08102.D
Injection Date: 22-MAR-2017 09:05
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

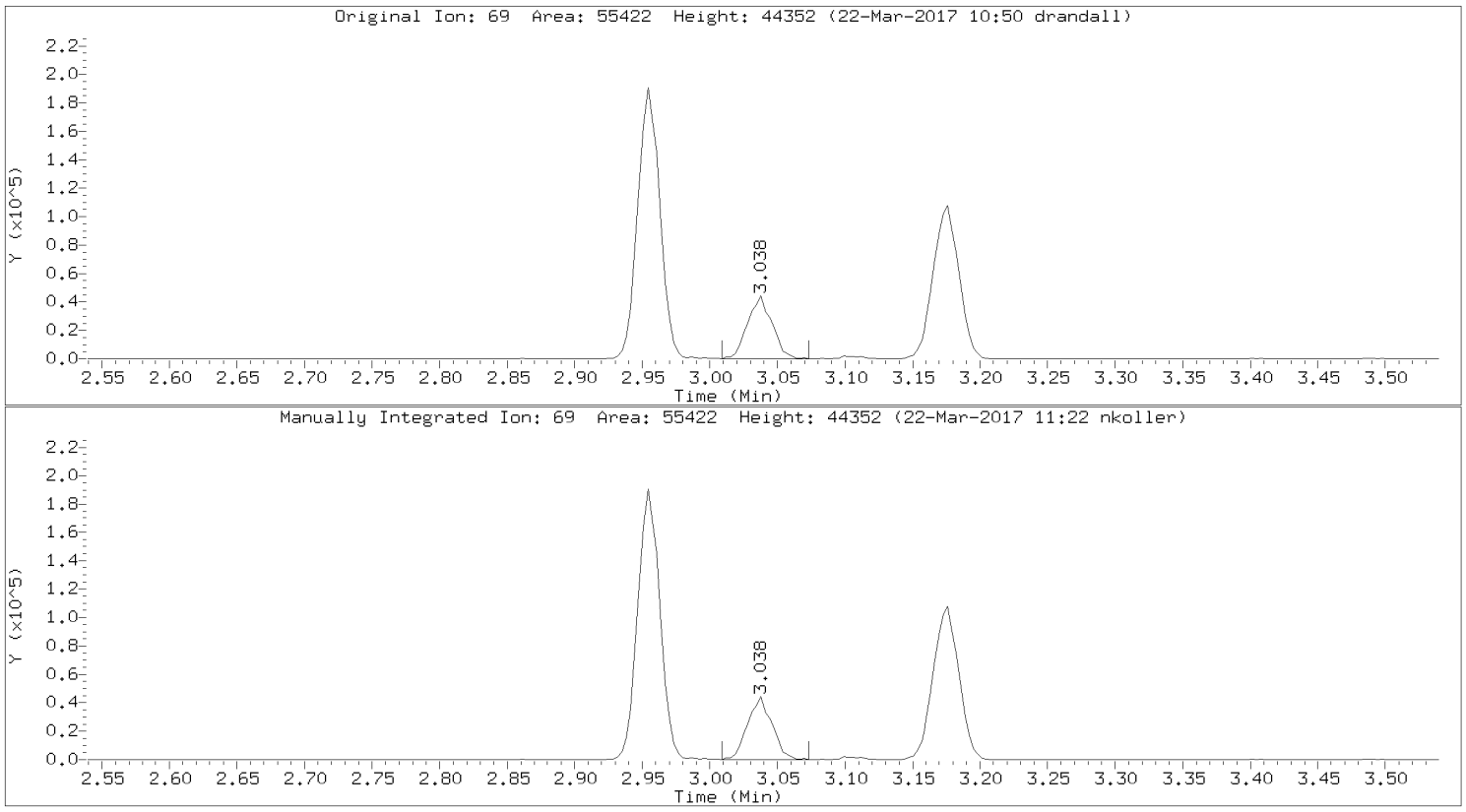








Data File: \\192.168.10.12\chem\10airB.i\032217.b/08102.D
Injection Date: 22-MAR-2017 09:05
Instrument: 10airB.i
Lab Sample ID: ccv



Data File: \\192.168.10.12\chem\10airB.i\031617.b\07501BFB.D

Date : 16-MAR-2017 08:47

Client ID: BFB

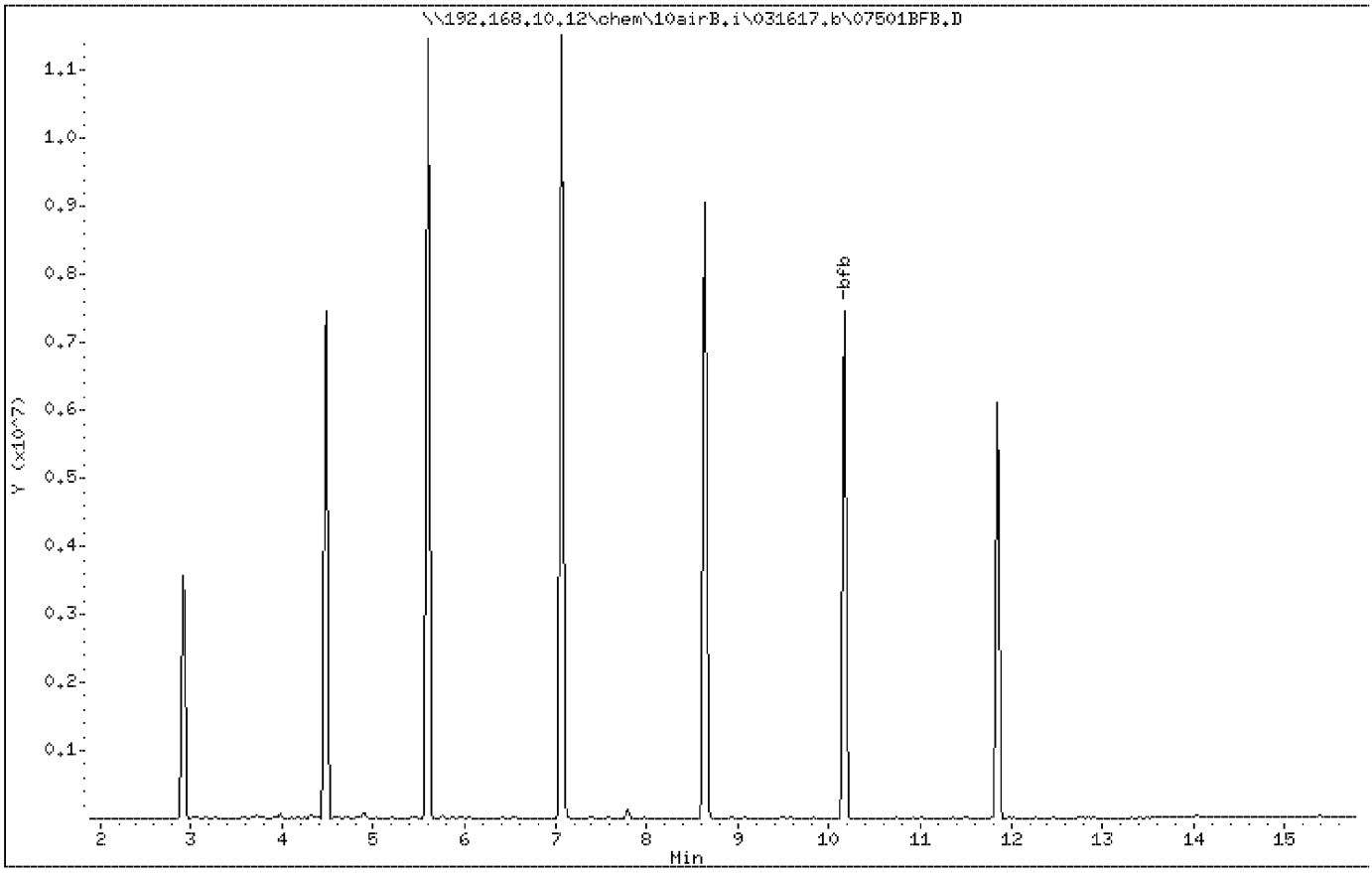
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\031617.b\07501BFB.D

Date : 16-MAR-2017 08:47

Client ID: BFB

Instrument: 10airB.i

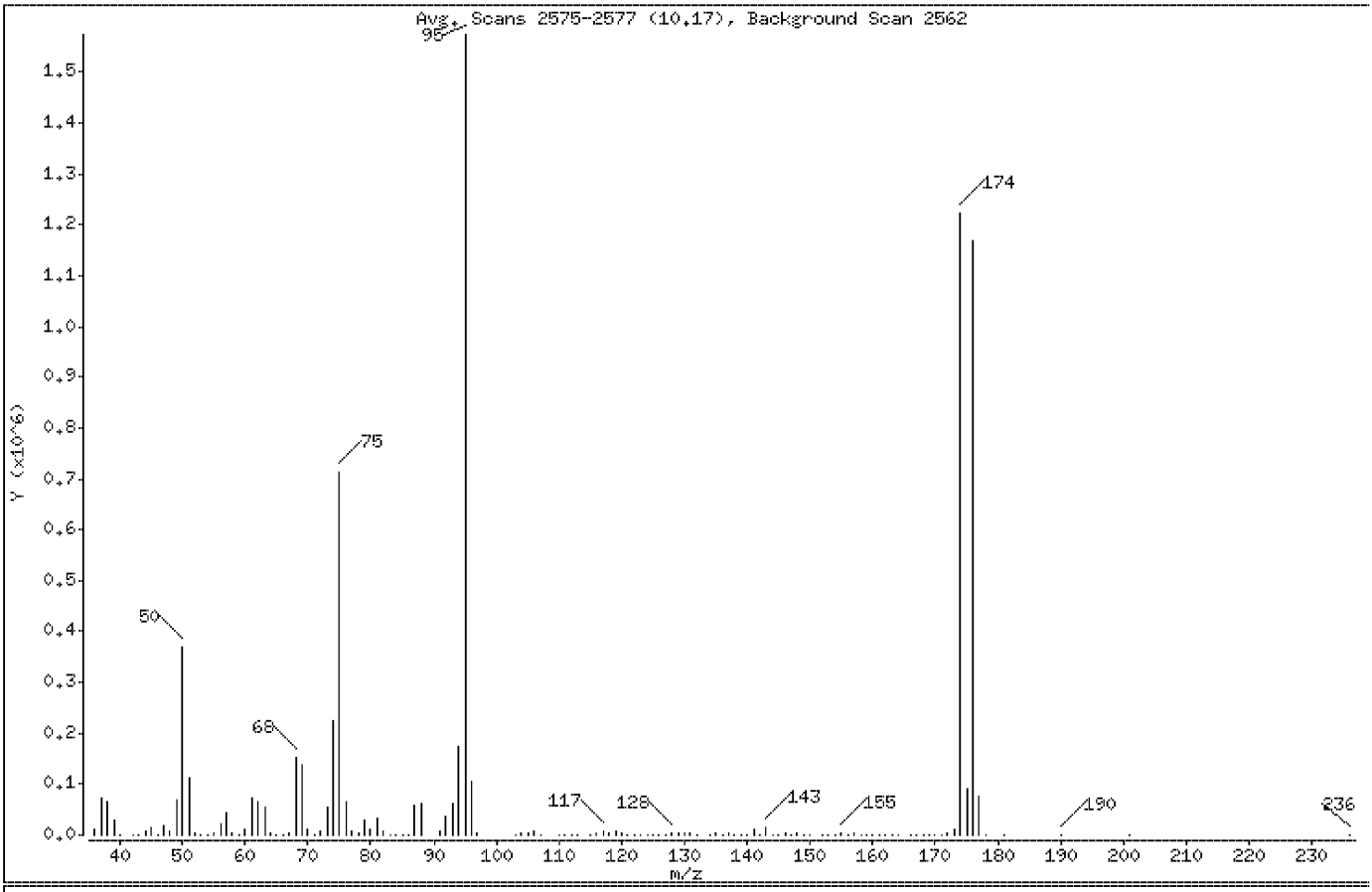
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.56
75	30.00 - 66.00% of mass 95	45.21
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.80 (1.03)
174	50.00 - 120.00% of mass 95	77.72
175	4.00 - 9.00% of mass 174	5.75 (7.40)
176	93.00 - 101.00% of mass 174	74.27 (95.56)
177	5.00 - 9.00% of mass 176	4.93 (6.63)

Date : 16-MAR-2017 08:47

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 07501BFB.D
Spectrum: Avg. Scans 2575-2577 (10.17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	12138	71.00	708	115.00	1719	150.00	1548
37.00	74128	72.00	7308	116.00	4533	152.00	647
38.00	66072	73.00	55312	117.00	8210	153.00	1214
39.00	28160	74.00	224384	118.00	3939	154.00	704
40.00	420	75.00	711488	119.00	5726	155.00	3824
42.00	121	76.00	64504	120.00	1946	156.00	329
43.00	762	77.00	8372	121.00	233	157.00	2456
44.00	8853	78.00	5043	122.00	132	158.00	88
45.00	14956	79.00	30328	123.00	584	159.00	1568
46.00	1312	80.00	9054	124.00	767	160.00	95
47.00	18160	81.00	32832	125.00	308	161.00	1648
48.00	8839	82.00	6696	126.00	530	162.00	177
49.00	69632	83.00	768	127.00	400	163.00	117
50.00	370752	84.00	93	128.00	4762	164.00	114
51.00	111984	85.00	117	129.00	2817	166.00	312
52.00	4705	86.00	1476	130.00	3827	167.00	373
53.00	157	87.00	57536	131.00	1813	168.00	198
54.00	119	88.00	59936	132.00	168	169.00	1219
55.00	3271	91.00	6055	134.00	224	170.00	1544
56.00	23480	92.00	37456	135.00	1927	171.00	1430
57.00	45072	93.00	60704	136.00	356	172.00	2132
58.00	2339	94.00	175040	137.00	2327	173.00	12610
59.00	85	95.00	1573888	138.00	84	174.00	1223168
60.00	12519	96.00	103904	139.00	586	175.00	90568
61.00	71200	97.00	2682	140.00	438	176.00	1168896
62.00	66416	103.00	1011	141.00	11995	177.00	77536
63.00	53464	104.00	5198	142.00	1382	178.00	1603
64.00	4759	105.00	5171	143.00	13215	181.00	104
65.00	1425	106.00	5565	144.00	639	190.00	349
66.00	88	107.00	1178	145.00	927	201.00	93
67.00	3616	110.00	892	146.00	1914	236.00	321
68.00	150528	111.00	879	147.00	1148		
69.00	139200	112.00	754	148.00	3355		
70.00	9200	113.00	817	149.00	843		

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07901BFB.D

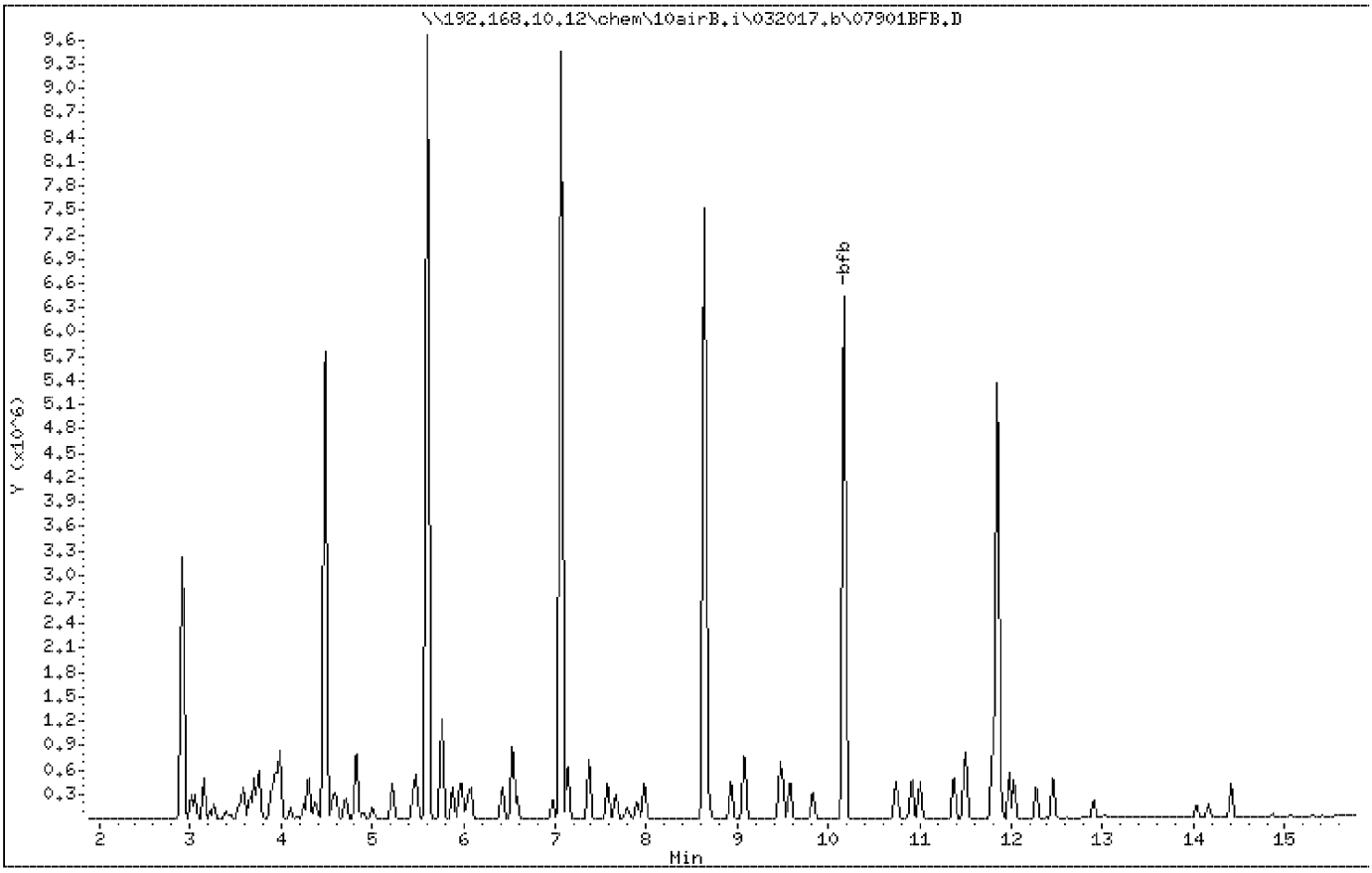
Date : 20-MAR-2017 08:42

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032017.b\07901BFB.D

Date : 20-MAR-2017 08:42

Client ID: BFB

Instrument: 10airB.i

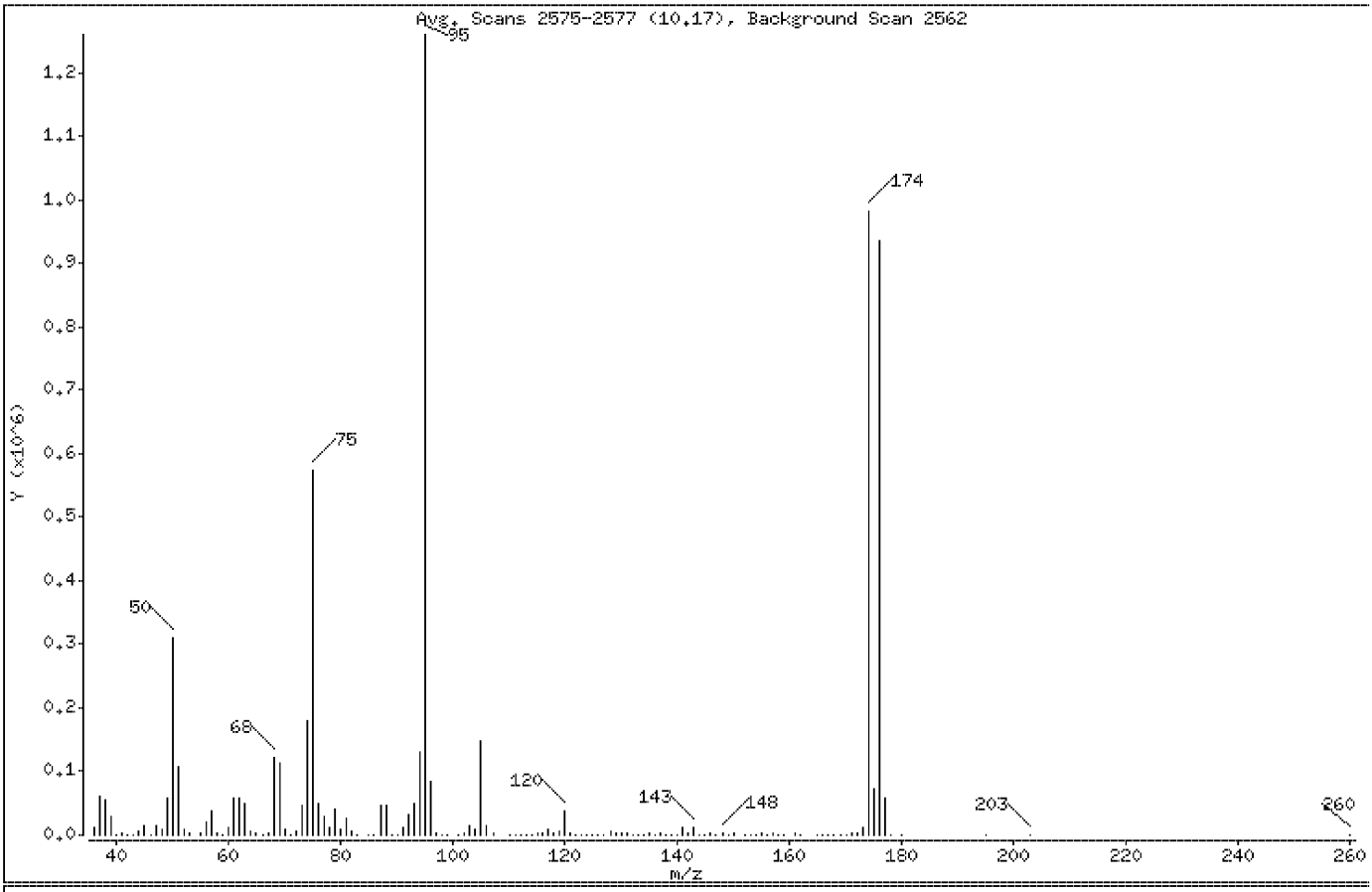
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	24.57
75	30.00 - 66.00% of mass 95	45.56
96	5.00 - 9.00% of mass 95	6.58
173	Less than 2.00% of mass 174	0.81 (1.04)
174	50.00 - 120.00% of mass 95	78.00
175	4.00 - 9.00% of mass 174	5.69 (7.29)
176	93.00 - 101.00% of mass 174	74.18 (95.10)
177	5.00 - 9.00% of mass 176	4.71 (6.35)

Date : 20-MAR-2017 08:42

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 07901BFB.D
Spectrum: Avg. Scans 2575-2577 (10.17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	10554	72.00	5799	111.00	726	146.00	1531
37.00	60840	73.00	46408	112.00	377	147.00	1111
38.00	55008	74.00	180544	113.00	854	148.00	2767
39.00	27712	75.00	573824	114.00	103	149.00	820
40.00	25	76.00	49864	115.00	2640	150.00	1763
41.00	4219	77.00	27592	116.00	3918	152.00	479
42.00	462	78.00	12831	117.00	7914	153.00	1162
43.00	1098	79.00	39376	118.00	3946	154.00	519
44.00	6710	80.00	7987	119.00	6025	155.00	2683
45.00	13104	81.00	26488	120.00	38720	156.00	504
46.00	656	82.00	5861	121.00	3335	157.00	1662
47.00	15555	83.00	434	122.00	307	158.00	491
48.00	7899	85.00	125	123.00	402	159.00	1376
49.00	59160	86.00	1240	124.00	923	161.00	2010
50.00	309440	87.00	45224	125.00	312	162.00	157
51.00	107656	88.00	45136	126.00	664	165.00	198
52.00	7366	89.00	1330	127.00	493	166.00	148
53.00	1940	90.00	447	128.00	4585	167.00	130
55.00	3513	91.00	12486	129.00	1797	168.00	408
56.00	19528	92.00	31552	130.00	3701	169.00	830
57.00	38512	93.00	49912	131.00	1607	170.00	626
58.00	2196	94.00	131712	132.00	234	171.00	1551
59.00	1389	95.00	1259520	133.00	229	172.00	2308
60.00	11192	96.00	82848	134.00	103	173.00	10235
61.00	58744	97.00	2341	135.00	1994	174.00	982464
62.00	58368	98.00	357	136.00	412	175.00	71648
63.00	49568	99.00	87	137.00	1625	176.00	934336
64.00	4676	101.00	519	138.00	231	177.00	59352
65.00	3704	102.00	1929	139.00	99	178.00	1340
66.00	595	103.00	15375	140.00	738	180.00	208
67.00	3496	104.00	8459	141.00	10838	195.00	86
68.00	120936	105.00	148032	142.00	1724	203.00	94
69.00	113552	106.00	15152	143.00	11202	260.00	102
70.00	7866	107.00	1537	144.00	715		
71.00	457	110.00	739	145.00	1064		

Date : 20-MAR-2017 08:42

Client ID: BFB Instrument: 10airB.i

Sample Info: Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 07901BFB.D

Spectrum: Avg. Scans 2575-2577 (10.17), Background Scan 2562

Location of Maximum: 95.00

Number of points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08001BFB.D

Date : 21-MAR-2017 08:35

Client ID: BFB

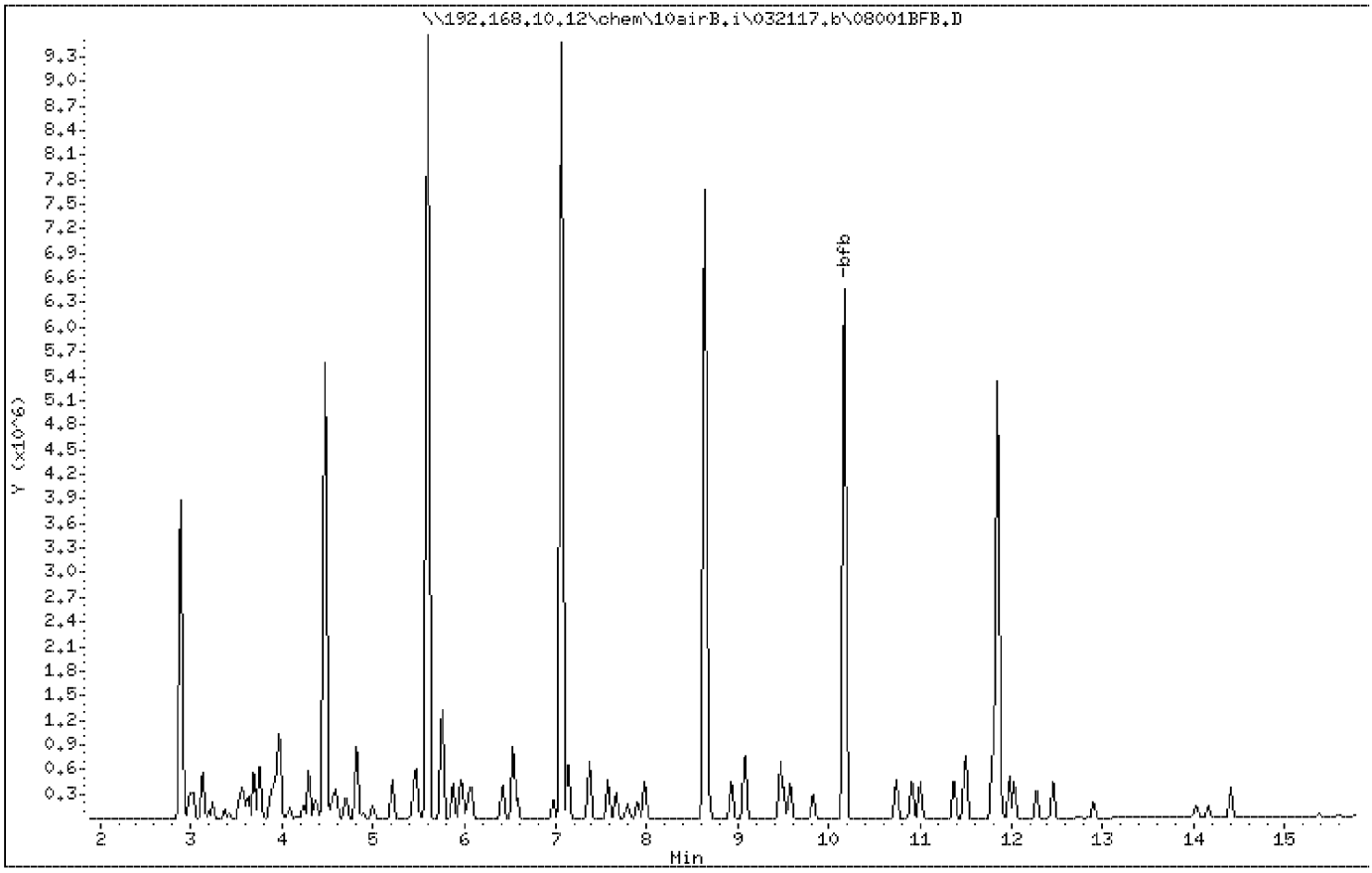
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b\08001BFB.D

Date : 21-MAR-2017 08:35

Client ID: BFB

Instrument: 10airB.i

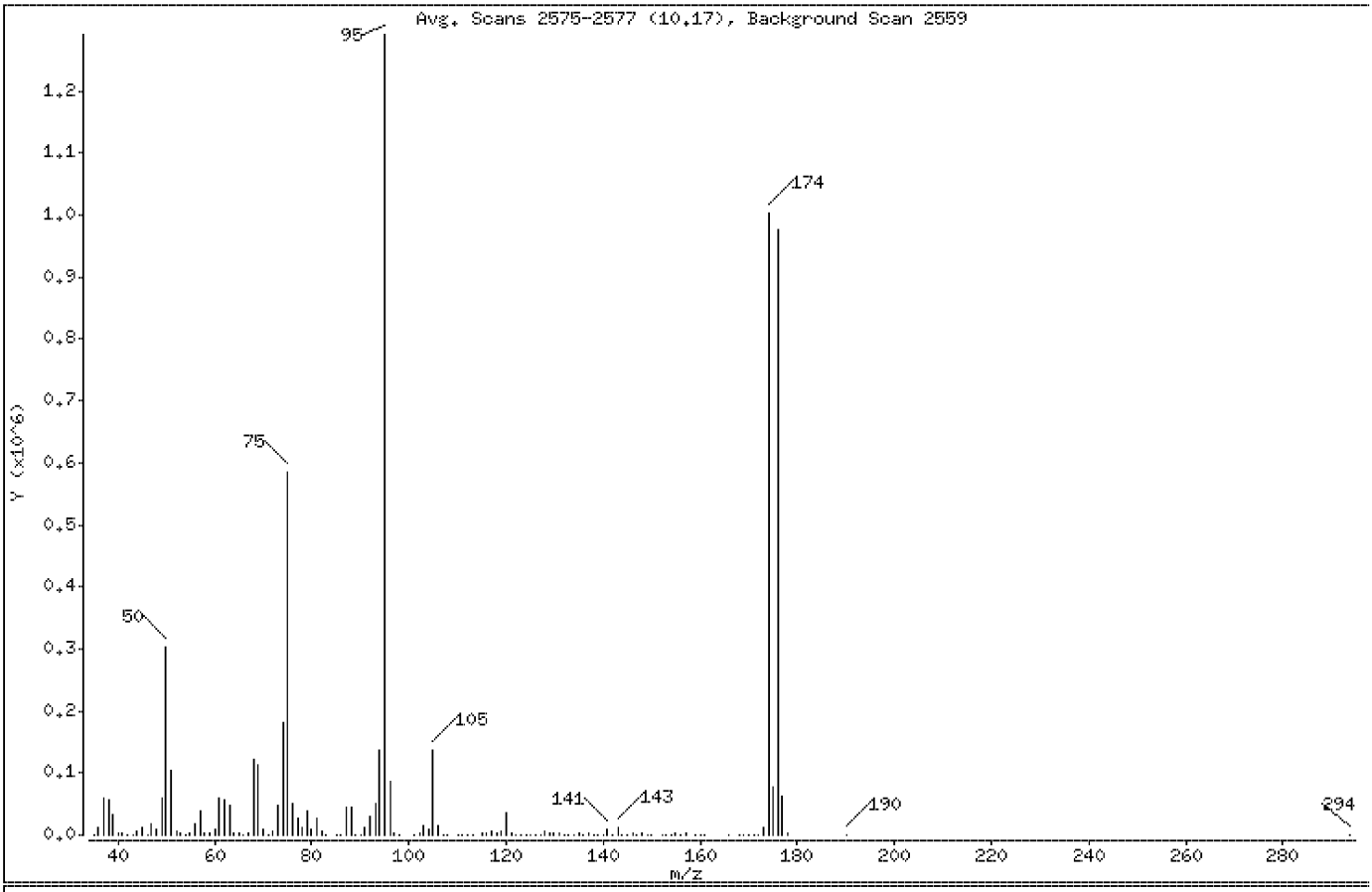
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.44
75	30.00 - 66.00% of mass 95	45.20
96	5.00 - 9.00% of mass 95	6.61
173	Less than 2.00% of mass 174	0.82 (1.05)
174	50.00 - 120.00% of mass 95	77.73
175	4.00 - 9.00% of mass 174	5.88 (7.57)
176	93.00 - 101.00% of mass 174	75.62 (97.29)
177	5.00 - 9.00% of mass 176	4.89 (6.47)

Date : 21-MAR-2017 08:35

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 08001BFB.D
Spectrum: Avg. Scans 2575-2577 (10,17), Background Scan 2559
Location of Maximum: 95.00
Number of points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	116	69.00	112496	106.00	14292	142.00	1085
36.00	10820	70.00	9072	107.00	1359	143.00	11226
37.00	59792	71.00	501	108.00	100	144.00	565
38.00	56800	72.00	5827	110.00	504	145.00	983
39.00	31392	73.00	46104	111.00	895	146.00	1773
40.00	1629	74.00	182464	112.00	383	147.00	1039
41.00	4197	75.00	583616	113.00	1005	148.00	2954
42.00	146	76.00	50480	115.00	2521	149.00	958
43.00	1028	77.00	25696	116.00	4441	150.00	1148
44.00	7072	78.00	12809	117.00	7015	152.00	803
45.00	11231	79.00	37376	118.00	4120	153.00	665
46.00	841	80.00	9154	119.00	6387	154.00	767
47.00	16656	81.00	25328	120.00	35560	155.00	2320
48.00	9080	82.00	4676	121.00	3388	156.00	506
49.00	60240	83.00	879	122.00	386	157.00	2110
50.00	302656	85.00	96	123.00	406	159.00	1288
51.00	104112	86.00	1150	124.00	961	160.00	127
52.00	6843	87.00	45424	125.00	472	161.00	1135
53.00	1704	88.00	44960	126.00	532	166.00	90
54.00	134	89.00	772	127.00	533	168.00	488
55.00	3265	90.00	517	128.00	4560	169.00	508
56.00	19280	91.00	10570	129.00	1829	170.00	641
57.00	39464	92.00	30960	130.00	4110	171.00	1234
58.00	2468	93.00	50208	131.00	1563	172.00	1482
59.00	1498	94.00	137664	132.00	219	173.00	10573
60.00	10111	95.00	1291264	133.00	120	174.00	1003648
61.00	58024	96.00	85328	134.00	145	175.00	75976
62.00	56000	97.00	1934	135.00	1877	176.00	976448
63.00	47440	98.00	586	136.00	302	177.00	63184
64.00	4351	101.00	584	137.00	1966	178.00	1935
65.00	3042	102.00	2248	138.00	358	190.00	111
66.00	198	103.00	13786	139.00	405	294.00	89
67.00	2968	104.00	8177	140.00	215		
68.00	120312	105.00	135360	141.00	9811		

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08101BFB.D

Date : 22-MAR-2017 08:37

Client ID: BFB

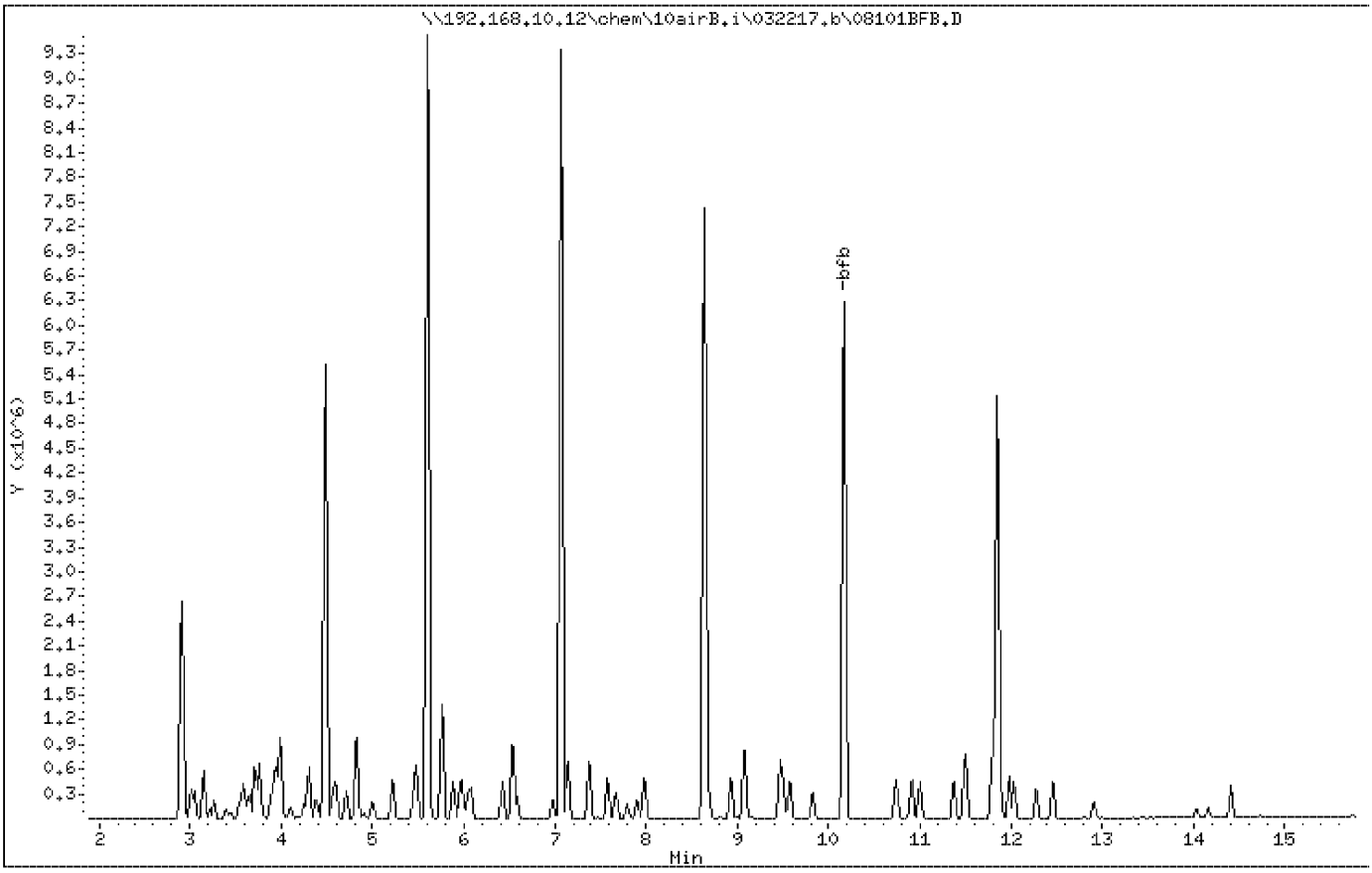
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032217.b\08101BFB.D

Date : 22-MAR-2017 08:37

Client ID: BFB

Instrument: 10airB.i

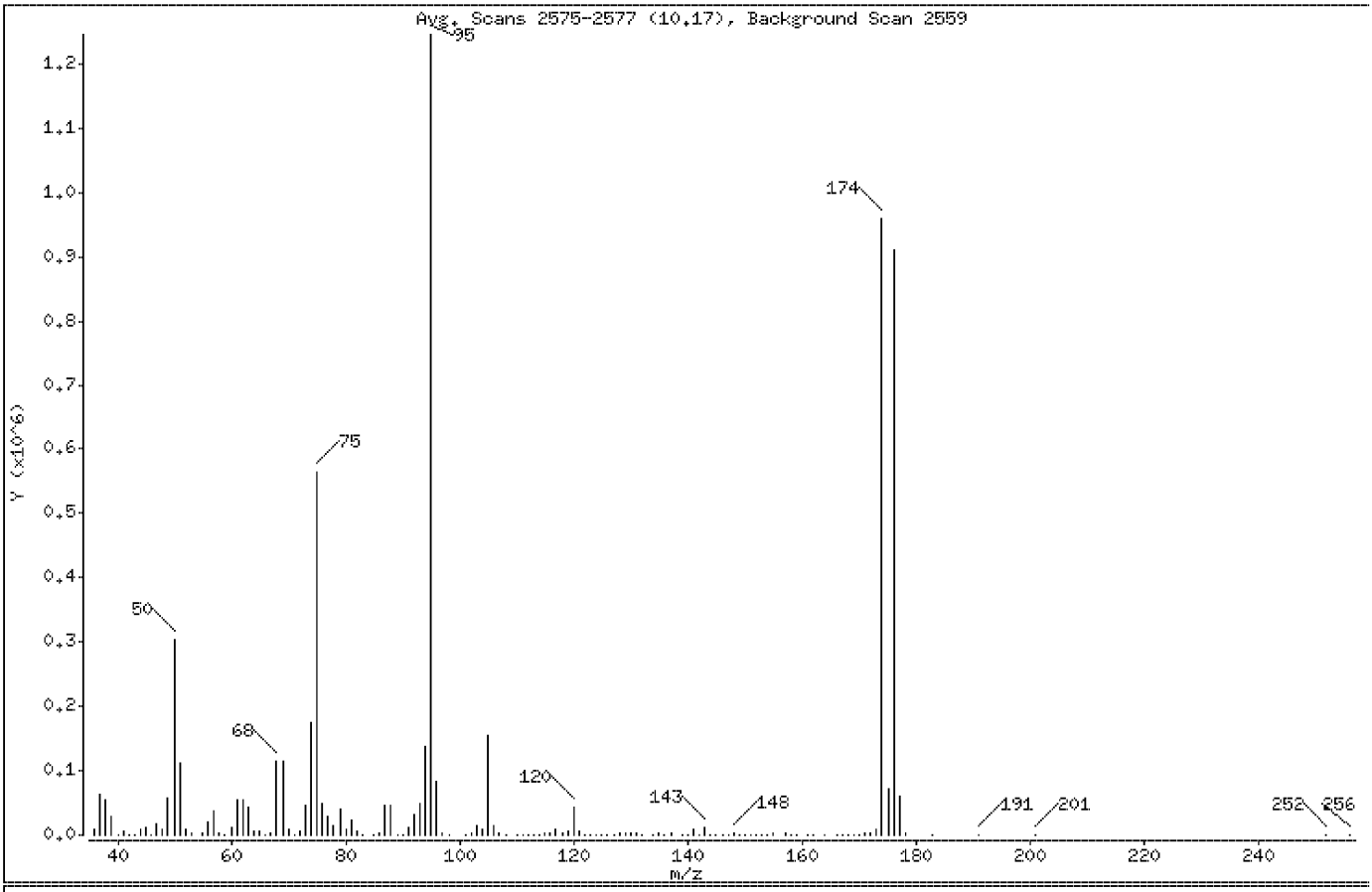
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	24.34
75	30.00 - 66.00% of mass 95	45.23
96	5.00 - 9.00% of mass 95	6.63
173	Less than 2.00% of mass 174	0.80 (1.04)
174	50.00 - 120.00% of mass 95	77.05
175	4.00 - 9.00% of mass 174	5.73 (7.44)
176	93.00 - 101.00% of mass 174	73.00 (94.74)
177	5.00 - 9.00% of mass 176	4.94 (6.77)

Date : 22-MAR-2017 08:37

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 08101BFB.D
Spectrum: Avg. Scans 2575-2577 (10.17), Background Scan 2559
Location of Maximum: 95.00
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	10007	72.00	4510	111.00	492	148.00	2859
37.00	61832	73.00	46488	112.00	486	149.00	662
38.00	54624	74.00	175872	113.00	678	150.00	1068
39.00	28968	75.00	563456	114.00	154	151.00	84
40.00	1011	76.00	49192	115.00	2822	152.00	763
41.00	4755	77.00	27912	116.00	4022	153.00	791
42.00	88	78.00	13647	117.00	7233	154.00	934
43.00	741	79.00	40352	118.00	3779	155.00	2494
44.00	7419	80.00	8306	119.00	5883	157.00	2070
45.00	11671	81.00	24240	120.00	42952	158.00	131
46.00	784	82.00	4785	121.00	4580	159.00	1247
47.00	16373	83.00	873	122.00	435	161.00	1267
48.00	7424	85.00	147	123.00	286	162.00	119
49.00	58160	86.00	1677	124.00	401	164.00	145
50.00	303232	87.00	44792	125.00	145	166.00	274
51.00	110288	88.00	46888	126.00	248	167.00	193
52.00	7454	89.00	1077	127.00	471	168.00	85
53.00	2018	90.00	831	128.00	3068	169.00	566
55.00	3462	91.00	11092	129.00	1758	170.00	816
56.00	19080	92.00	31312	130.00	3447	171.00	1697
57.00	38048	93.00	48600	131.00	1875	172.00	1534
58.00	2488	94.00	136704	132.00	108	173.00	9962
59.00	952	95.00	1245696	134.00	281	174.00	959808
60.00	10560	96.00	82592	135.00	1675	175.00	71384
61.00	54272	97.00	2761	136.00	222	176.00	909312
62.00	54712	98.00	101	137.00	1493	177.00	61544
63.00	43584	101.00	229	139.00	800	178.00	1689
64.00	4419	102.00	2235	140.00	755	183.00	88
65.00	4595	103.00	14834	141.00	10013	191.00	91
66.00	746	104.00	8490	142.00	1366	201.00	111
67.00	3362	105.00	155008	143.00	10821	252.00	88
68.00	115048	106.00	14851	144.00	705	256.00	89
69.00	114208	107.00	1496	145.00	1072		
70.00	8969	108.00	162	146.00	926		
71.00	610	110.00	56	147.00	614		

Date : 22-MAR-2017 08:37

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 08101BFB.D

Spectrum: Avg. Scans 2575-2577 (10,17), Background Scan 2559

Location of Maximum: 95.00

Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10381035001	**VP-1_5_20170302**	TO-15	464711		
10381035002	**VP-1_10_2017032**	TO-15	464711		
10381035003	**VP-1_20_20170302**	TO-15	464895		
10381035004	**VP-1_30_20170302**	TO-15	464895		
10381035005	**VP-2_5_20170302**	TO-15	464895		
10381035006	**VP-2_10_20170302**	TO-15	464895		
10381035007	**VP-2_20_20170302**	TO-15	464895		
10381035008	**VP-2_30_20170302**	TO-15	464895		
10381035009	**VP-4_5_20170302**	TO-15	464895		
10381035010	**VP-4_10_20170302**	TO-15	464895		
10381035011	**VP-4_20_20170302**	TO-15	464895		
10381035012	**VP-4_30_20170302**	TO-15	464895		
10381035013	**VP-106_5_20170302**	TO-15	464895		
10381035014	**VP-106_11_20170302**	TO-15	464895		
10381035015	**VP-106_19.5_20170302**	TO-15	464895		
10381035016	**VP-106_28_20170302**	TO-15	464895		
10381035017	**VP-106_56_20170302**	TO-15	464895		
10381035018	**VP-106_72_20170302**	TO-15	464895		
10381035019	**VP-106_84_20170302**	TO-15	464895		
10381035020	**VP-106_72_20170302DUP**	TO-15	464895		
10381035021	**VP-2_10_20170302DUP**	TO-15	464895		
10381035022	**VP-1_30_20170302DUP**	TO-15	464895		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

QC Batch: 464711 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381035001, 10381035002

METHOD BLANK: 2540989 Matrix: Air
Associated Lab Samples: 10381035001, 10381035002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/20/17 11:10	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	1.4	0.33	03/20/17 11:10	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/20/17 11:10	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/20/17 11:10	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/20/17 11:10	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/20/17 11:10	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/20/17 11:10	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/20/17 11:10	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/20/17 11:10	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/20/17 11:10	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/20/17 11:10	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/20/17 11:10	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/20/17 11:10	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/20/17 11:10	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/20/17 11:10	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/20/17 11:10	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/20/17 11:10	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/20/17 11:10	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/20/17 11:10	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/20/17 11:10	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/20/17 11:10	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/20/17 11:10	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/20/17 11:10	
Acetone	ug/m3	<0.83	2.4	0.83	03/20/17 11:10	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/20/17 11:10	
Benzene	ug/m3	<0.12	0.32	0.12	03/20/17 11:10	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/20/17 11:10	
Bromoform	ug/m3	<0.90	5.3	0.90	03/20/17 11:10	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/20/17 11:10	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/20/17 11:10	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/20/17 11:10	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/20/17 11:10	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/20/17 11:10	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/20/17 11:10	
Chloroform	ug/m3	<0.19	0.50	0.19	03/20/17 11:10	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/20/17 11:10	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/20/17 11:10	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/20/17 11:10	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/20/17 11:10	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/20/17 11:10	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/20/17 11:10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

METHOD BLANK: 2540989 Matrix: Air
Associated Lab Samples: 10381035001, 10381035002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	2.5	0.48	03/20/17 11:10	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/20/17 11:10	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/20/17 11:10	
Freon 123	ug/m3	<3.2	3.2	3.2	03/20/17 11:10	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/20/17 11:10	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/20/17 11:10	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/20/17 11:10	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/20/17 11:10	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/20/17 11:10	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/20/17 11:10	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/20/17 11:10	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/20/17 11:10	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/20/17 11:10	
Styrene	ug/m3	<0.19	0.87	0.19	03/20/17 11:10	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/20/17 11:10	
Toluene	ug/m3	<0.15	0.77	0.15	03/20/17 11:10	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/20/17 11:10	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/20/17 11:10	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/20/17 11:10	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/20/17 11:10	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/20/17 11:10	

LABORATORY CONTROL SAMPLE: 2540990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.8	108	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.4	109	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	59.9	108	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	69.9	90	75-128	
1,1-Dichloroethane	ug/m3	41.1	39.5	96	75-127	
1,1-Dichloroethene	ug/m3	40.3	38.6	96	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	86.7	115	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	55.5	111	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	105	107		1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	93.8	120	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	69.7	114	75-139	
1,2-Dichloroethane	ug/m3	41.1	42.6	104	75-130	
1,2-Dichloropropane	ug/m3	47	50.8	108	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	55.1	110	75-133	
1,3-Butadiene	ug/m3	22.5	21.0	93	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	67.6	111	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	67.0	110	75-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	42.5	116	65-149	
2-Butanone (MEK)	ug/m3	30	26.2	88	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

LABORATORY CONTROL SAMPLE: 2540990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	114	110	75-138	
2-Propanol	ug/m3	125	136	109	75-127	
4-Ethyltoluene	ug/m3	50	55.1	110	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	120	115	75-130	
Acetone	ug/m3	121	113	94	64-129	
Allyl chloride	ug/m3	79.5	75.6	95	60-147	
Benzene	ug/m3	32.5	34.2	105	75-129	
Bromodichloromethane	ug/m3	68.1	77.4	114	75-134	
Bromoform	ug/m3	105	114	108	75-150	
Bromomethane	ug/m3	39.5	37.2	94	75-127	
Carbon disulfide	ug/m3	31.6	31.4	99	75-134	
Carbon tetrachloride	ug/m3	64	72.0	113	68-150	
Chlorobenzene	ug/m3	46.8	55.0	118	75-132	
Chlorodifluoromethane	ug/m3	36	37.0	103	67-134	
Chloroethane	ug/m3	26.8	25.3	94	75-132	
Chloroform	ug/m3	49.6	52.3	105	75-125	
Chloromethane	ug/m3	21	21.8	104	75-126	
Chloropentafluoroethane	ug/m3	64.2	48.5	75		1M
cis-1,2-Dichloroethene	ug/m3	40.3	43.7	108	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	55.5	120	75-137	
Cyclohexane	ug/m3	35	38.1	109	75-126	
Dibromochloromethane	ug/m3	86.6	115	133	75-144	CH
Dichlorodifluoromethane	ug/m3	50.3	59.2	118	75-129	
Dichlorotetrafluoroethane	ug/m3	71	70.3	99	75-125	
Ethylbenzene	ug/m3	44.1	55.3	125	75-134	
Freon 123	ug/m3	63.6	26.9	42		1M,CL
Hexachloro-1,3-butadiene	ug/m3	108	112	104	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	60.6	121	75-140	
m&p-Xylene	ug/m3	88.3	97.5	110	75-129	
Methyl acetate	ug/m3	30.8	29.5	96		1M
Methyl-tert-butyl ether	ug/m3	91.6	87.1	95	66-148	
Methylcyclohexane	ug/m3	40.8	45.5	111	73-137	
Methylene Chloride	ug/m3	177	149	84	67-133	
n-Hexane	ug/m3	35.8	32.3	90	67-132	
o-Xylene	ug/m3	44.1	55.2	125	75-129	
Styrene	ug/m3	43.3	47.0	108	75-139	
Tetrachloroethene	ug/m3	68.9	79.3	115	75-129	
Toluene	ug/m3	38.3	41.7	109	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	38.0	94	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	49.2	107	75-142	
Trichloroethene	ug/m3	54.6	58.4	107	75-128	
Trichlorofluoromethane	ug/m3	57.1	53.3	93	75-127	
Vinyl chloride	ug/m3	26	24.7	95	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

SAMPLE DUPLICATE: 2541459

Parameter	Units	10381035002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.55	<0.55		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.51	<0.51		25	
1,1-Dichloroethane	ug/m3	<0.26	<0.26		25	
1,1-Dichloroethene	ug/m3	<0.40	<0.40		25	
1,2,4-Trichlorobenzene	ug/m3	<1.5	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	1.3J	1.2J		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.2	<8.2		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.3	<1.3		25	
1,2-Dichlorobenzene	ug/m3	<0.86	<0.86		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.45	<0.45		25	
1,3,5-Trimethylbenzene	ug/m3	<0.31	<0.31		25	
1,3-Butadiene	ug/m3	<0.30	<0.30		25	
1,3-Dichlorobenzene	ug/m3	<0.89	<0.89		25	
1,4-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.59	<0.59		25	
2-Butanone (MEK)	ug/m3	<0.38	<0.38		25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	<0.40	<0.40		25	
4-Ethyltoluene	ug/m3	1.4J	<0.32		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	6.8	6.9	2	25	
Allyl chloride	ug/m3	<0.38	<0.38		25	
Benzene	ug/m3	<0.20	<0.20		25	
Bromodichloromethane	ug/m3	<0.33	<0.33		25	
Bromoform	ug/m3	<1.5	<1.5		25	
Bromomethane	ug/m3	<0.52	<0.52		25	
Carbon disulfide	ug/m3	<0.17	<0.17		25	
Carbon tetrachloride	ug/m3	<0.32	<0.32		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	1.2	1.2J		25	
Chloroethane	ug/m3	<0.33	<0.33		25	
Chloroform	ug/m3	0.80J	0.77J		25	
Chloromethane	ug/m3	<0.18	<0.18		25	
Chloropentafluoroethane	ug/m3	<5.4	<5.4		25	
cis-1,2-Dichloroethene	ug/m3	<0.41	<0.41		25	
cis-1,3-Dichloropropene	ug/m3	<0.62	<0.62		25	
Cyclohexane	ug/m3	<0.53	<0.53		25	
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	<0.81	<0.81		25	
Dichlorotetrafluoroethane	ug/m3	<0.52	<0.52		25	
Ethylbenzene	ug/m3	<0.71	<0.71		25	
Freon 123	ug/m3	<5.3	<5.3		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.23	<0.23		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

SAMPLE DUPLICATE: 2541459

Parameter	Units	10381035002 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	1.6J	1.6J		25	
Methyl acetate	ug/m3	<2.6	<2.6		25	
Methyl-tert-butyl ether	ug/m3	<0.51	<0.51		25	
Methylcyclohexane	ug/m3	<0.41	<0.41		25	
Methylene Chloride	ug/m3	<0.91	<0.91		25	
n-Hexane	ug/m3	<0.60	<0.60		25	
o-Xylene	ug/m3	<0.59	<0.59		25	
Styrene	ug/m3	<0.32	1.0J		25	
Tetrachloroethene	ug/m3	<0.47	<0.47		25	
Toluene	ug/m3	0.88J	0.86J		25	
trans-1,2-Dichloroethene	ug/m3	<0.65	<0.65		25	
trans-1,3-Dichloropropene	ug/m3	<0.44	<0.44		25	
Trichloroethene	ug/m3	4.0	4.1	2	25	
Trichlorofluoromethane	ug/m3	1.2J	1.2J		25	
Vinyl chloride	ug/m3	<0.33	<0.33		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

QC Batch: 464895 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381035003, 10381035004, 10381035005, 10381035006, 10381035007, 10381035008, 10381035009, 10381035010, 10381035011, 10381035012, 10381035013, 10381035014, 10381035015, 10381035016, 10381035017, 10381035018, 10381035019, 10381035020, 10381035021, 10381035022

METHOD BLANK: 2541630 Matrix: Air
Associated Lab Samples: 10381035003, 10381035004, 10381035005, 10381035006, 10381035007, 10381035008, 10381035009, 10381035010, 10381035011, 10381035012, 10381035013, 10381035014, 10381035015, 10381035016, 10381035017, 10381035018, 10381035019, 10381035020, 10381035021, 10381035022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/21/17 14:07	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	1.4	0.33	03/21/17 14:07	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/21/17 14:07	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/21/17 14:07	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/21/17 14:07	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/21/17 14:07	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/21/17 14:07	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/21/17 14:07	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/21/17 14:07	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/21/17 14:07	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/21/17 14:07	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/21/17 14:07	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/21/17 14:07	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/21/17 14:07	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/21/17 14:07	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/21/17 14:07	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/21/17 14:07	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/21/17 14:07	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/21/17 14:07	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/21/17 14:07	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/21/17 14:07	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/21/17 14:07	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/21/17 14:07	
Acetone	ug/m3	<0.83	2.4	0.83	03/21/17 14:07	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/21/17 14:07	
Benzene	ug/m3	<0.12	0.32	0.12	03/21/17 14:07	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/21/17 14:07	
Bromoform	ug/m3	<0.90	5.3	0.90	03/21/17 14:07	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/21/17 14:07	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/21/17 14:07	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/21/17 14:07	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/21/17 14:07	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/21/17 14:07	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/21/17 14:07	
Chloroform	ug/m3	<0.19	0.50	0.19	03/21/17 14:07	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/21/17 14:07	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/21/17 14:07	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/21/17 14:07	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

METHOD BLANK: 2541630 Matrix: Air

Associated Lab Samples: 10381035003, 10381035004, 10381035005, 10381035006, 10381035007, 10381035008, 10381035009, 10381035010, 10381035011, 10381035012, 10381035013, 10381035014, 10381035015, 10381035016, 10381035017, 10381035018, 10381035019, 10381035020, 10381035021, 10381035022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/21/17 14:07	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/21/17 14:07	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/21/17 14:07	
Dichlorodifluoromethane	ug/m3	<0.48	2.5	0.48	03/21/17 14:07	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/21/17 14:07	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/21/17 14:07	
Freon 123	ug/m3	<3.2	3.2	3.2	03/21/17 14:07	CL
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/21/17 14:07	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/21/17 14:07	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/21/17 14:07	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/21/17 14:07	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/21/17 14:07	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/21/17 14:07	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/21/17 14:07	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/21/17 14:07	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/21/17 14:07	
Styrene	ug/m3	<0.19	0.87	0.19	03/21/17 14:07	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/21/17 14:07	
Toluene	ug/m3	<0.15	0.77	0.15	03/21/17 14:07	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/21/17 14:07	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/21/17 14:07	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/21/17 14:07	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/21/17 14:07	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/21/17 14:07	

LABORATORY CONTROL SAMPLE: 2541631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.1	107	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	75.9	109	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	61.4	111	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	76.6	98	75-128	
1,1-Dichloroethane	ug/m3	41.1	41.9	102	75-127	
1,1-Dichloroethene	ug/m3	40.3	41.2	102	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	84.5	112	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	55.7	111	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	103	105		
1,2-Dibromoethane (EDB)	ug/m3	78.1	95.2	122	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	70.3	115	75-139	
1,2-Dichloroethane	ug/m3	41.1	41.9	102	75-130	
1,2-Dichloropropane	ug/m3	47	51.5	110	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	54.7	109	75-133	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

LABORATORY CONTROL SAMPLE: 2541631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Butadiene	ug/m3	22.5	22.1	98	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	67.3	110	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	67.0	110	75-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	42.8	117	65-149	
2-Butanone (MEK)	ug/m3	30	28.6	95	75-128	
2-Hexanone	ug/m3	104	115	110	75-138	
2-Propanol	ug/m3	125	143	115	75-127	
4-Ethyltoluene	ug/m3	50	54.4	109	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	123	118	75-130	
Acetone	ug/m3	121	115	96	64-129	
Allyl chloride	ug/m3	79.5	83.9	105	60-147	
Benzene	ug/m3	32.5	34.6	106	75-129	
Bromodichloromethane	ug/m3	68.1	77.1	113	75-134	
Bromoform	ug/m3	105	115	109	75-150	
Bromomethane	ug/m3	39.5	39.8	101	75-127	
Carbon disulfide	ug/m3	31.6	34.2	108	75-134	
Carbon tetrachloride	ug/m3	64	72.2	113	68-150	
Chlorobenzene	ug/m3	46.8	56.1	120	75-132	
Chlorodifluoromethane	ug/m3	36	35.6	99	67-134	
Chloroethane	ug/m3	26.8	26.9	100	75-132	
Chloroform	ug/m3	49.6	51.6	104	75-125	
Chloromethane	ug/m3	21	21.5	103	75-126	
Chloropentafluoroethane	ug/m3	64.2	53.3	83		
cis-1,2-Dichloroethene	ug/m3	40.3	40.3	100	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	56.7	123	75-137	
Cyclohexane	ug/m3	35	38.4	110	75-126	
Dibromochloromethane	ug/m3	86.6	115	133	75-144	CH
Dichlorodifluoromethane	ug/m3	50.3	57.2	114	75-129	
Dichlorotetrafluoroethane	ug/m3	71	70.2	99	75-125	
Ethylbenzene	ug/m3	44.1	55.5	126	75-134	
Freon 123	ug/m3	63.6	31.3	49		CL
Hexachloro-1,3-butadiene	ug/m3	108	106	98	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	60.1	120	75-140	
m&p-Xylene	ug/m3	88.3	97.6	111	75-129	
Methyl acetate	ug/m3	30.8	31.1	101		
Methyl-tert-butyl ether	ug/m3	91.6	93.7	102	66-148	
Methylcyclohexane	ug/m3	40.8	46.8	115	73-137	
Methylene Chloride	ug/m3	177	158	90	67-133	
n-Hexane	ug/m3	35.8	34.3	96	67-132	
o-Xylene	ug/m3	44.1	54.9	124	75-129	
Styrene	ug/m3	43.3	47.1	109	75-139	
Tetrachloroethene	ug/m3	68.9	80.0	116	75-129	
Toluene	ug/m3	38.3	42.9	112	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	41.3	103	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	49.5	107	75-142	
Trichloroethene	ug/m3	54.6	59.6	109	75-128	
Trichlorofluoromethane	ug/m3	57.1	56.8	99	75-127	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

LABORATORY CONTROL SAMPLE: 2541631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/m3	26	25.9	100	75-128	

SAMPLE DUPLICATE: 2542896

Parameter	Units	10381035014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.55	<0.55		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.51	0.72J		25	
1,1-Dichloroethane	ug/m3	<0.26	<0.26		25	
1,1-Dichloroethene	ug/m3	<0.40	<0.40		25	
1,2,4-Trichlorobenzene	ug/m3	<1.5	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	1.2J	1.2J		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.2	<8.2		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.3	<1.3		25	
1,2-Dichlorobenzene	ug/m3	<0.86	<0.86		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.45	<0.45		25	
1,3,5-Trimethylbenzene	ug/m3	<0.31	<0.31		25	
1,3-Butadiene	ug/m3	<0.30	<0.30		25	
1,3-Dichlorobenzene	ug/m3	<0.89	<0.89		25	
1,4-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.59	<0.59		25	
2-Butanone (MEK)	ug/m3	6.1	6.5	7	25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	<0.40	<0.40		25	
4-Ethyltoluene	ug/m3	<0.32	<0.32		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	7.9	8.2	4	25	
Allyl chloride	ug/m3	<0.38	<0.38		25	
Benzene	ug/m3	<0.20	<0.20		25	
Bromodichloromethane	ug/m3	<0.33	<0.33		25	
Bromoform	ug/m3	<1.5	<1.5		25	
Bromomethane	ug/m3	<0.52	<0.52		25	
Carbon disulfide	ug/m3	<0.17	<0.17		25	
Carbon tetrachloride	ug/m3	<0.32	<0.32		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	0.74J	0.69J		25	
Chloroethane	ug/m3	<0.33	<0.33		25	
Chloroform	ug/m3	1.1	0.99	13	25	
Chloromethane	ug/m3	<0.18	<0.18		25	
Chloropentafluoroethane	ug/m3	<5.4	<5.4		25	
cis-1,2-Dichloroethene	ug/m3	<0.41	<0.41		25	
cis-1,3-Dichloropropene	ug/m3	<0.62	<0.62		25	
Cyclohexane	ug/m3	<0.53	<0.53		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

SAMPLE DUPLICATE: 2542896

Parameter	Units	10381035014 Result	Dup Result	RPD	Max RPD	Qualifiers
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	<0.81	<0.81		25	
Dichlorotetrafluoroethane	ug/m3	<0.52	<0.52		25	
Ethylbenzene	ug/m3	<0.71	<0.71		25	
Freon 123	ug/m3	<5.3	<5.3		25	CL
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.23	<0.23		25	
m&p-Xylene	ug/m3	<1.3	<1.3		25	
Methyl acetate	ug/m3	<2.6	<2.6		25	
Methyl-tert-butyl ether	ug/m3	<0.51	<0.51		25	
Methylcyclohexane	ug/m3	<0.41	<0.41		25	
Methylene Chloride	ug/m3	<0.91	<0.91		25	
n-Hexane	ug/m3	1.0J	1.1J		25	
o-Xylene	ug/m3	<0.59	<0.59		25	
Styrene	ug/m3	<0.32	<0.32		25	
Tetrachloroethene	ug/m3	8.4	8.8	5	25	
Toluene	ug/m3	<0.26	<0.26		25	
trans-1,2-Dichloroethene	ug/m3	<0.65	<0.65		25	
trans-1,3-Dichloropropene	ug/m3	<0.44	<0.44		25	
Trichloroethene	ug/m3	1.5	1.6	3	25	
Trichlorofluoromethane	ug/m3	1.3J	1.4J		25	
Vinyl chloride	ug/m3	<0.33	<0.33		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07906_27953.D
Report Date: 21-Mar-2017 10:40

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032017.b\07906_27953.D
Lab Smp Id: 2540989
Inj Date : 20-MAR-2017 11:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27953
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m
Meth Date : 20-Mar-2017 15:08 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07906_27953.D
Report Date: 21-Mar-2017 10:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.800)	2119493	9.61501	9.62	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	6431450	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5806784	9.80468	9.80	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	4168665	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07906_27953.D
Report Date: 21-Mar-2017 10:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	1841688	9.15504	9.16	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07906_27953.D
Report Date: 21-Mar-2017 10:40

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07906_27953.D
Lab Smp Id: 2540989
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m
Misc Info: 27953

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

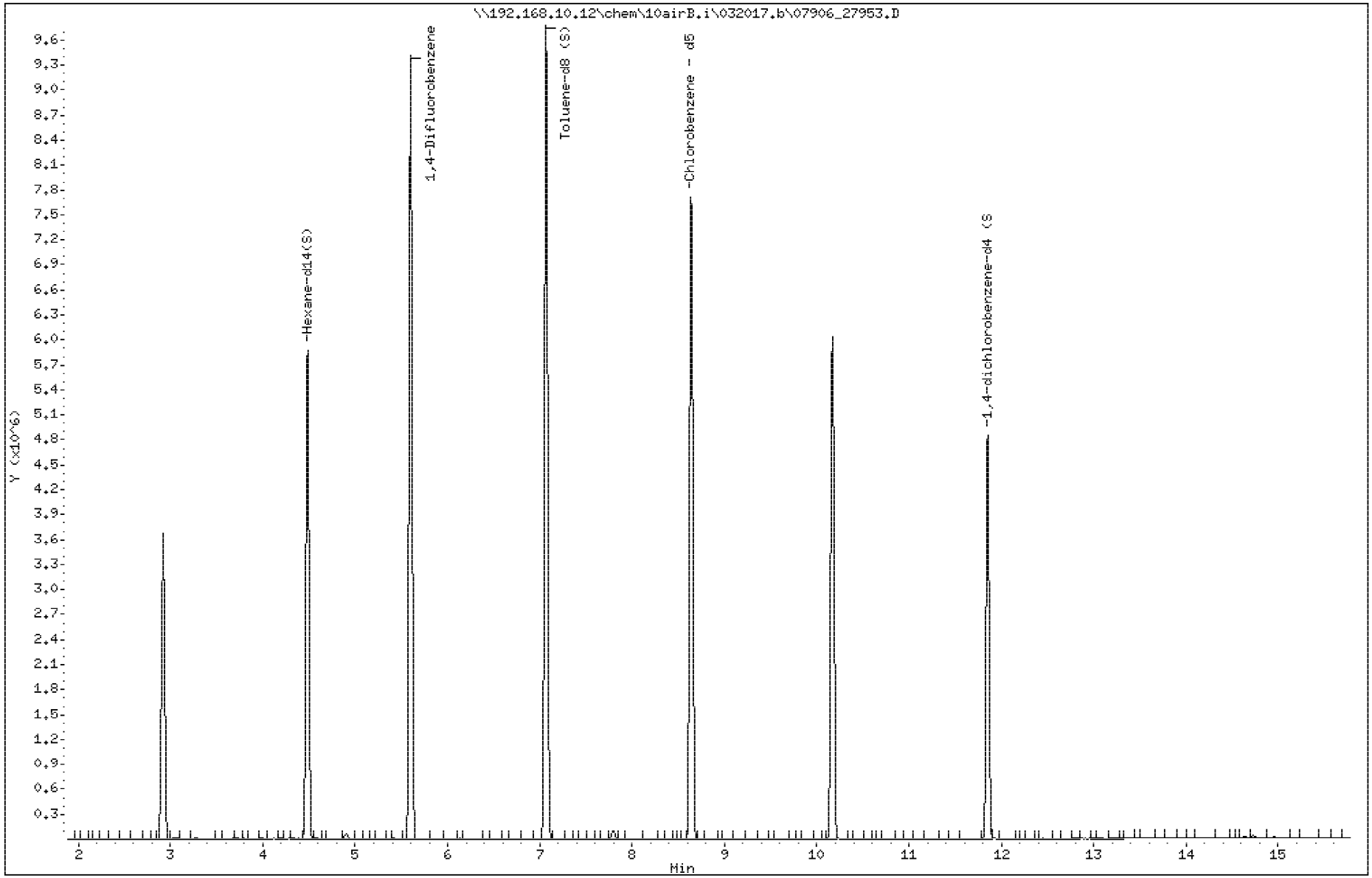
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6431450	-15.83
67 Chlorobenzene - d	5205948	3123569	7288327	4168665	-19.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07906_27953.D
Date : 20-MAR-2017 11:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032017.b/07906.D
Injection Date: 20-MAR-2017 11:10
Instrument: 10airB.i
Lab Sample ID: cert
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08012_27967.D
Report Date: 23-Mar-2017 15:23

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08012_27967.D
Lab Smp Id: 2541630
Inj Date : 21-MAR-2017 14:07
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08012_27967.D
Report Date: 23-Mar-2017 15:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)		
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.							
	25 Methylene chloride	49	Compound Not Detected.							(D)
	26 Allyl Chloride	76	Compound Not Detected.							
	27 Carbon Disulfide	76	Compound Not Detected.							(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.							
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.							
	30 Vinyl Acetate	43	Compound Not Detected.							(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.							(D)
$	32 Hexane-d14(S)	66	4.487	4.491	(0.801)	2116196	9.65187	9.65		
	33 Methyl Ethyl Ketone	72	Compound Not Detected.							(D)
	34 n-Hexane	57	Compound Not Detected.							
	35 Di-isopropyl Ether	45	Compound Not Detected.							
	36 Ethyl Acetate	43	Compound Not Detected.							
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.							
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.							
	39 Chloroform	83	Compound Not Detected.							
	40 Tetrahydrofuran	42	Compound Not Detected.							
	41 1,1,1-Trichloroethane	97	Compound Not Detected.							
	42 1,2-Dichloroethane	62	Compound Not Detected.							
	43 Benzene	78	Compound Not Detected.							
	44 Carbon tetrachloride	117	Compound Not Detected.							
	45 Cyclohexane	56	Compound Not Detected.							
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.							
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	6396925	10.0000		(H)	
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.							
	49 Heptane	43	Compound Not Detected.							
	50 1,2-Dichloropropane	63	Compound Not Detected.							
	51 Trichloroethene	130	Compound Not Detected.							
	52 Methyl methacrylate	69	Compound Not Detected.							
	53 1,4-Dioxane	88	Compound Not Detected.							
	54 Bromodichloromethane	83	Compound Not Detected.							
	55 Methylcyclohexane	98	Compound Not Detected.							
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.							
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.							
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.							(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	5691763	9.66234	9.66		
	60 1,1,2-Trichloroethane	97	Compound Not Detected.							(D)
	61 Toluene	91	Compound Not Detected.							
	62 Methyl Butyl Ketone	43	Compound Not Detected.							(D)
	63 n-Octane	43	Compound Not Detected.							
	64 Dibromochloromethane	129	Compound Not Detected.							
	65 1,2-Dibromoethane	107	Compound Not Detected.							
	66 Tetrachloroethene	166	Compound Not Detected.							
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	4172091	10.0000			
	68 Chlorobenzene	112	Compound Not Detected.							
	69 Ethyl Benzene	91	Compound Not Detected.							
	70 m&p-Xylene	91	Compound Not Detected.							(D)
	71 n-Nonane	43	Compound Not Detected.							
	72 Bromoform	173	Compound Not Detected.							
	73 Styrene	104	Compound Not Detected.							
	74 o-Xylene	91	Compound Not Detected.							
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	76 Isopropylbenzene	105	Compound Not Detected.							(D)
	77 N-Propylbenzene	91	Compound Not Detected.							

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08012_27967.D
Report Date: 23-Mar-2017 15:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	1775318	8.81786	8.82	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08012_27967.D
Report Date: 23-Mar-2017 15:23

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08012_27967.D
Lab Smp Id: 2541630
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

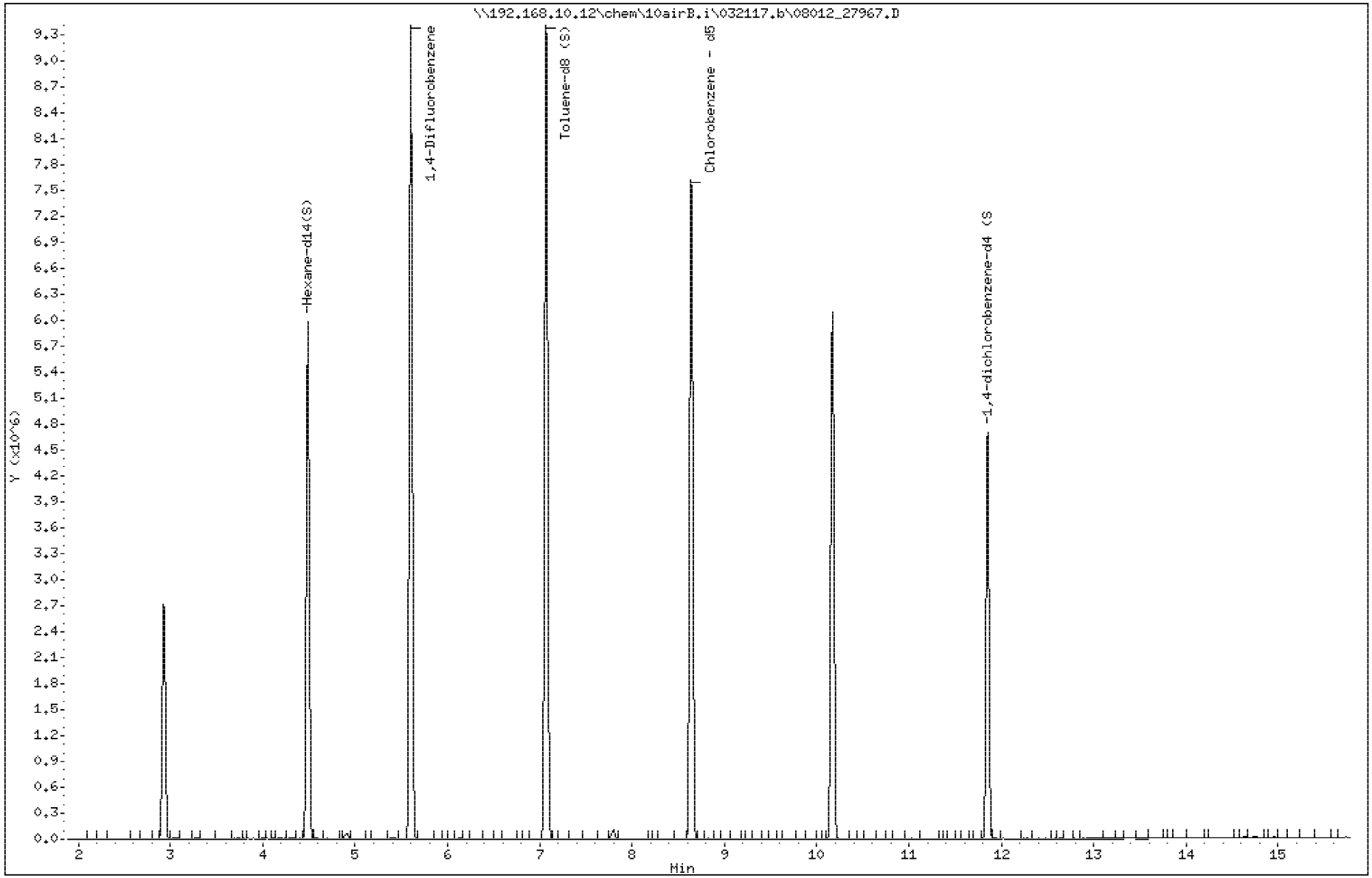
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6396925	-16.28
67 Chlorobenzene - d	5205948	3123569	7288327	4172091	-19.86

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08012_27967.D
Date : 21-MAR-2017 14:07
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032117.b/08012.D
Injection Date: 21-MAR-2017 14:07
Instrument: 10airB.i
Lab Sample ID: cert
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902_27953.D
Report Date: 21-Mar-2017 10:40

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032017.b\07902_27953.D
Lab Smp Id: 2540990
Inj Date : 20-MAR-2017 09:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27953
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m
Meth Date : 20-Mar-2017 15:08 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.954	2.954	(0.526)	363716	7.54963	7.55(H)
2	1,1-Difluoroethane	65	3.025	3.025	(0.539)	426030	11.4572	11.5
3	Chlorodifluoromethane	67	3.034	3.034	(0.541)	186287	10.2989	10.3
4	Propylene	41	3.037	3.037	(0.541)	567450	9.52117	9.52
5	Dichlorodifluoromethane	85	3.070	3.070	(0.547)	1865083	11.7758	11.8
6	Chloromethane	50	3.163	3.163	(0.564)	922953	10.3960	10.4(H)
7	Dichlorotetrafluoroethane	85	3.172	3.172	(0.565)	1706301	9.89262	9.89
8	Vinyl chloride	62	3.243	3.243	(0.578)	648065	9.49615	9.50
9	1,3-Butadiene	54	3.285	3.285	(0.585)	516111	9.34519	9.35
10	Bromomethane	94	3.420	3.420	(0.609)	447029	9.42209	9.42
11	Chloroethane	64	3.471	3.471	(0.619)	263135	9.42066	9.42
12	Ethanol	45	3.545	3.545	(0.632)	1216842	52.7962	52.8
13	Vinyl Bromide	106	3.584	3.584	(0.639)	426097	9.30700	9.31
14	Isopentane	43	3.603	3.603	(0.642)	655147	10.5844	10.6
15	Freon 123	83	3.606	3.606	(0.643)	426578	4.22390	4.22(H)
16	Trichlorofluoromethane	101	3.677	3.677	(0.655)	1163338	9.33837	9.34
17	Acrolein	56	3.684	3.684	(0.656)	519527	24.7997	24.8
18	Acetone	43	3.722	3.722	(0.663)	4666223	46.8929	46.9
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	5102656	54.4156	54.4
20	1,1-Dichloroethene	61	3.912	3.912	(0.697)	861859	9.56702	9.57
21	Acrylonitrile	53	3.928	3.928	(0.700)	1204497	25.6891	25.7
22	Freon 113	101	3.951	3.951	(0.704)	851211	8.96786	8.97
23	Methyl Acetate	43	3.957	3.957	(0.705)	1440473	9.56653	9.57

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902_27953.D
Report Date: 21-Mar-2017 10:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.704)	2708485	24.0919	24.1
	25 Methylene chloride	49	4.005	4.005	(0.714)	3449537	42.1666	42.2
	26 Allyl Chloride	76	4.021	4.021	(0.716)	411743	23.7569	23.8(Q)
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	1004323	9.91167	9.91
	28 trans-1,2-dichloroethene	96	4.275	4.275	(0.762)	412075	9.42026	9.42
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	2677400	23.7580	23.8
	30 Vinyl Acetate	43	4.388	4.388	(0.782)	1576139	10.5397	10.5
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	910992	9.60031	9.60
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	1900722	9.00779	9.01
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	200799	8.75051	8.75(Q)
	34 n-Hexane	57	4.587	4.587	(0.817)	952977	9.02745	9.03(Q)
	35 Di-isopropyl Ether	45	4.603	4.603	(0.820)	1951084	8.90788	8.91
	36 Ethyl Acetate	43	4.716	4.716	(0.840)	1682196	11.3268	11.3
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	582409	10.8414	10.8
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	5306873	26.6403	26.6
	39 Chloroform	83	4.841	4.841	(0.863)	1183578	10.5475	10.5
	40 Tetrahydrofuran	42	4.995	4.995	(0.890)	868911	11.0260	11.0
	41 1,1,1-Trichloroethane	97	5.233	5.233	(0.932)	1420478	10.7758	10.8
	42 1,2-Dichloroethane	62	5.237	5.237	(0.933)	1127683	10.3504	10.4
	43 Benzene	78	5.465	5.465	(0.974)	1869202	10.5403	10.5
	44 Carbon tetrachloride	117	5.484	5.484	(0.977)	1397839	11.2657	11.3
	45 Cyclohexane	56	5.487	5.487	(0.978)	1163656	10.8806	10.9
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	1652331	10.9553	11.0
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	6156400	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.028)	8643885	25.9881	26.0
	49 Heptane	43	5.889	5.889	(1.049)	1395589	11.1645	11.2
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	783366	10.8220	10.8
	51 Trichloroethene	130	5.986	5.986	(1.066)	886349	10.6910	10.7
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	662882	11.5178	11.5
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	457940	11.6038	11.6
	54 Bromodichloromethane	83	6.085	6.085	(1.084)	1425830	11.3677	11.4
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	527864	11.1432	11.1
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	4742063	28.7845	28.8
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	1092841	12.0365	12.0
	58 trans-1,3-Dichloropropene	75	6.983	6.983	(1.244)	1033152	10.6605	10.7
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	5641069	9.95041	9.95
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	766227	10.7961	10.8
	61 Toluene	91	7.153	7.153	(1.274)	2239918	10.8771	10.9
	62 Methyl Butyl Ketone	43	7.368	7.368	(0.853)	4376216	27.4831	27.5
	63 n-Octane	43	7.581	7.581	(0.877)	1833676	11.8447	11.8
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	1486146	13.2803	13.3
	65 1,2-Dibromoethane	107	7.905	7.905	(0.915)	1296691	12.0070	12.0
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	1098284	11.4949	11.5
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	4212056	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	1801574	11.7491	11.7
	69 Ethyl Benzene	91	8.934	8.934	(1.034)	3051723	12.5189	12.5
	70 m&p-Xylene	91	9.082	9.082	(1.051)	4581860	22.0903	22.1
	71 n-Nonane	43	9.468	9.468	(1.096)	1703613	13.1292	13.1
	72 Bromoform	173	9.478	9.478	(1.097)	1128552	10.8167	10.8
	73 Styrene	104	9.507	9.507	(1.100)	1730639	10.8443	10.8
	74 o-Xylene	91	9.577	9.577	(1.108)	2345146	12.5142	12.5
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1399295	10.9455	10.9
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	3028909	12.1185	12.1
	77 N-Propylbenzene	91	10.741	10.741	(1.243)	3691744	11.0159	11.0

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902_27953.D
Report Date: 21-Mar-2017 10:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.263)	3090111	11.0349	11.0
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.273)	2549297	11.0298	11.0
80	n-Decane	57	11.381	11.381	(2.028)	1773134	14.3760	14.4
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2570857	11.0481	11.0
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	2326587	11.1013	11.1
83	1,3-Dichlorobenzene	146	11.793	11.793	(1.365)	1420295	11.0577	11.1
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	3361296	11.1879	11.2
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.372)	2293855	11.2853	11.3
86	Benzyl Chloride	91	11.863	11.863	(1.373)	1435096	11.1196	11.1
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.376)	1381864	10.9669	11.0
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	2759979	12.2567	12.3
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	2255045	11.0492	11.0
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	1301163	11.4090	11.4
91	N-Butylbenzene	91	12.461	12.461	(1.442)	2345034	11.1069	11.1
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	476976	10.6600	10.7
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.624)	441569	11.4876	11.5
94	Naphthalene	128	14.156	14.156	(1.638)	1277771	10.1487	10.1
95	Hexachlorobutadiene	225	14.400	14.400	(1.666)	550328	10.3712	10.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902_27953.D
Report Date: 21-Mar-2017 10:40

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 07902_27953.D
Lab Smp Id: 2540990
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m
Misc Info: 27953

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6156400	-19.43
67 Chlorobenzene - d	5205948	3123569	7288327	4212056	-19.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

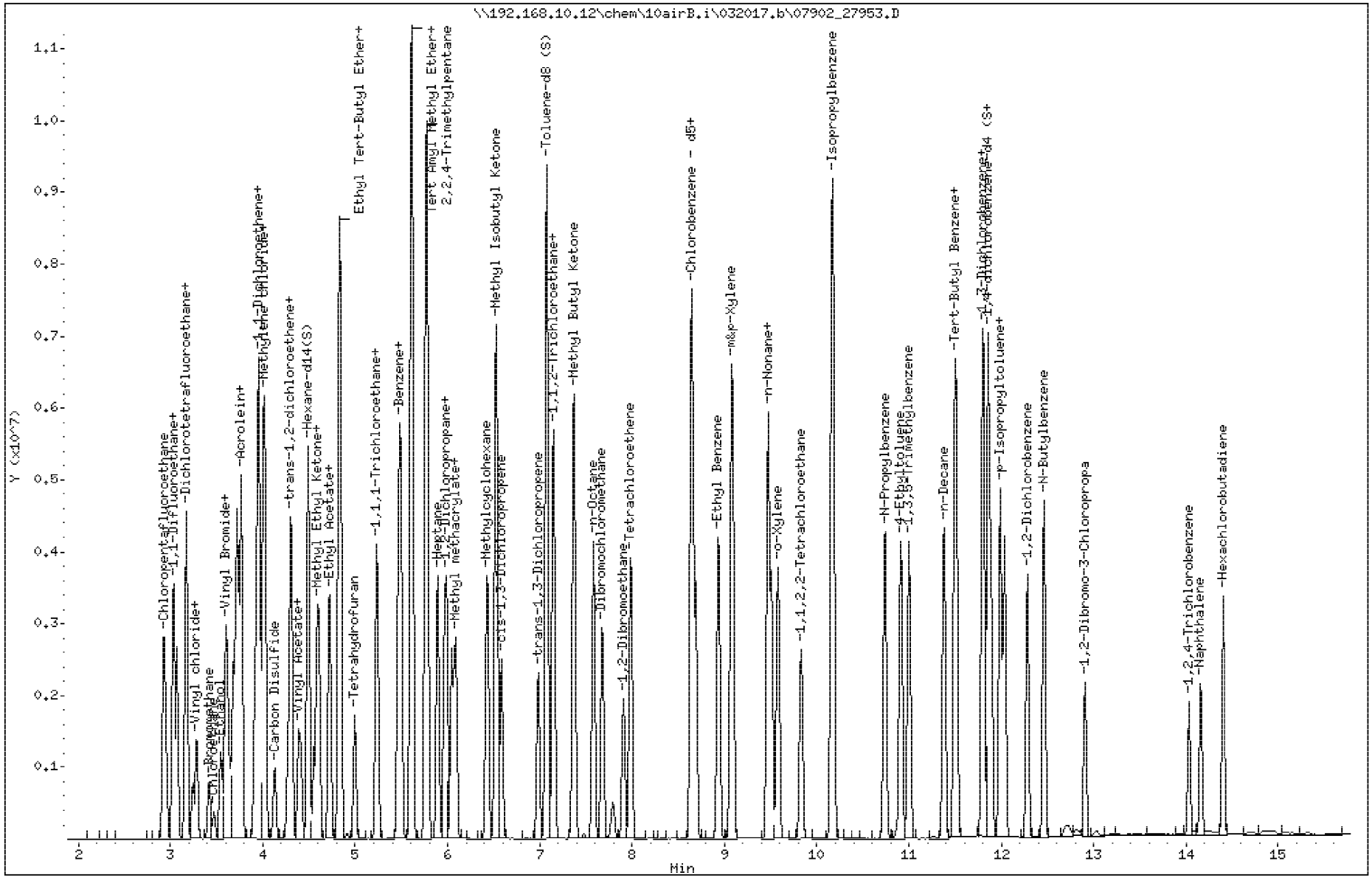
Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902_27953.D
Date : 20-MAR-2017 09:10
Client ID:
Sample Info:

Instrument: 10airB.i

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032017.b/07902.D
Injection Date: 20-MAR-2017 09:10
Instrument: 10airB.i
Lab Sample ID: ccv
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002_27967.D
Report Date: 23-Mar-2017 15:22

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032117.b\08002_27967.D
Lab Smp Id: 2541631
Inj Date : 21-MAR-2017 09:03
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27967
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Meth Date : 22-Mar-2017 12:22 nkoller Quant Type: ISTD
Cal Date : 16-MAR-2017 12:08 Cal File: 07508.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.954	(0.525)	397193	8.29607	8.30
2	1,1-Difluoroethane	65	3.018	3.025	(0.538)	434395	11.4308	11.4
3	Chlorodifluoromethane	67	3.028	3.034	(0.539)	182812	9.88967	9.89
4	Propylene	41	3.031	3.037	(0.540)	585489	9.61277	9.61
5	Dichlorodifluoromethane	85	3.063	3.070	(0.546)	1841831	11.3693	11.4
6	Chloromethane	50	3.160	3.163	(0.563)	931294	10.2646	10.3
7	Dichlorotetrafluoroethane	85	3.166	3.172	(0.564)	1740266	9.87276	9.87
8	Vinyl chloride	62	3.237	3.243	(0.577)	695336	9.96990	9.97
9	1,3-Butadiene	54	3.275	3.285	(0.584)	555680	9.84549	9.85
10	Bromomethane	94	3.414	3.420	(0.608)	488402	10.0729	10.1
11	Chloroethane	64	3.468	3.471	(0.618)	286567	10.0391	10.0
12	Ethanol	45	3.545	3.545	(0.632)	1302371	55.2930	55.3
13	Vinyl Bromide	106	3.581	3.584	(0.638)	478288	10.2225	10.2
14	Isopentane	43	3.603	3.603	(0.642)	714232	11.3091	11.3
15	Freon 123	83	3.603	3.606	(0.642)	507668	4.91884	4.92
16	Trichlorofluoromethane	101	3.674	3.677	(0.655)	1266696	9.94958	9.95
17	Acrolein	56	3.687	3.684	(0.657)	554566	25.9036	25.9
18	Acetone	43	3.722	3.722	(0.663)	4858799	47.7790	47.8
19	Isopropyl Alcohol	45	3.767	3.764	(0.671)	5457078	57.3058	57.3
20	1,1-Dichloroethene	61	3.912	3.912	(0.697)	940907	10.2201	10.2
21	Acrylonitrile	53	3.928	3.928	(0.700)	1297160	27.0710	27.1
22	Freon 113	101	3.947	3.951	(0.703)	954302	9.83795	9.84
23	Methyl Acetate	43	3.960	3.957	(0.706)	1552400	10.0884	10.1

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002_27967.D
Report Date: 23-Mar-2017 15:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.954	(0.705)	2986928	25.9978	26.0
	25 Methylene chloride	49	4.005	4.005	(0.714)	3740878	44.7454	44.7
	26 Allyl Chloride	76	4.021	4.021	(0.716)	467128	26.3734	26.4
	27 Carbon Disulfide	76	4.124	4.127	(0.735)	1120203	10.8178	10.8
	28 trans-1,2-dichloroethene	96	4.282	4.275	(0.763)	458571	10.2579	10.3
	29 Methyl Tert Butyl Ether	73	4.307	4.304	(0.767)	2944998	25.5711	25.6
	30 Vinyl Acetate	43	4.391	4.388	(0.782)	1702861	11.1424	11.1
	31 1,1-Dichloroethane	63	4.414	4.410	(0.786)	987730	10.1854	10.2
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	2057414	9.54089	9.54
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	223405	9.52647	9.53
	34 n-Hexane	57	4.587	4.587	(0.817)	1031517	9.56151	9.56
	35 Di-isopropyl Ether	45	4.606	4.603	(0.821)	2119015	9.46673	9.47
	36 Ethyl Acetate	43	4.719	4.716	(0.841)	1551465	10.2221	10.2
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	549475	10.0086	10.0
	38 Ethyl Tert-Butyl Ether	59	4.832	4.828	(0.861)	5446145	26.7521	26.8
	39 Chloroform	83	4.841	4.841	(0.863)	1192687	10.4003	10.4
	40 Tetrahydrofuran	42	4.992	4.995	(0.889)	900947	11.1869	11.2
	41 1,1,1-Trichloroethane	97	5.230	5.233	(0.932)	1435241	10.6538	10.7
	42 1,2-Dichloroethane	62	5.237	5.237	(0.933)	1133987	10.1846	10.2
	43 Benzene	78	5.468	5.465	(0.974)	1928886	10.6432	10.6
	44 Carbon tetrachloride	117	5.487	5.484	(0.978)	1431868	11.2921	11.3
	45 Cyclohexane	56	5.491	5.487	(0.978)	1200385	10.9829	11.0
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	1725742	11.2072	11.2
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	6291578	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.028)	9001173	26.4808	26.5
	49 Heptane	43	5.893	5.889	(1.050)	1446356	11.3221	11.3
	50 1,2-Dichloropropane	63	5.970	5.967	(1.064)	811561	10.9706	11.0
	51 Trichloroethene	130	5.989	5.986	(1.067)	924105	10.9069	10.9
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	694026	11.7999	11.8
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	470813	11.6736	11.7
	54 Bromodichloromethane	83	6.086	6.085	(1.084)	1451655	11.3249	11.3
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	555525	11.4751	11.5
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	4961099	29.4671	29.5
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	1139519	12.2809	12.3
	58 trans-1,3-Dichloropropene	75	6.986	6.983	(1.245)	1062896	10.7311	10.7
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	5782192	9.98021	9.98
	60 1,1,2-Trichloroethane	97	7.147	7.143	(1.273)	802549	11.0650	11.1
	61 Toluene	91	7.153	7.153	(1.274)	2356109	11.1955	11.2
	62 Methyl Butyl Ketone	43	7.372	7.368	(0.853)	4508680	27.5382	27.5
	63 n-Octane	43	7.584	7.581	(0.877)	1927500	12.1062	12.1
	64 Dibromochloromethane	129	7.680	7.677	(0.888)	1531992	13.3111	13.3
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	1354061	12.1912	12.2
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	1140036	11.6016	11.6
*	67 Chlorobenzene - d5	117	8.645	8.642	(1.000)	4331960	10.0000	
	68 Chlorobenzene	112	8.690	8.687	(1.005)	1889835	11.9836	12.0
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	3153929	12.5800	12.6
	70 m&p-Xylene	91	9.079	9.082	(1.050)	4718250	22.1220	22.1
	71 n-Nonane	43	9.468	9.468	(1.095)	1755449	13.1542	13.2
	72 Bromoform	173	9.481	9.478	(1.097)	1172067	10.9291	10.9
	73 Styrene	104	9.507	9.507	(1.100)	1784644	10.8752	10.9
	74 o-Xylene	91	9.577	9.577	(1.108)	2397489	12.4394	12.4
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1429938	10.8716	10.9
	76 Isopropylbenzene	105	10.163	10.159	(1.176)	3089880	12.0203	12.0
	77 N-Propylbenzene	91	10.738	10.741	(1.242)	3732855	10.8139	10.8

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002_27967.D
Report Date: 23-Mar-2017 15:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.915	(1.262)	3136615	10.8804	10.9
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.272)	2603051	10.9447	10.9
80	n-Decane	57	11.378	11.381	(2.027)	1793233	14.2266	14.2
81	Tert-Butyl Benzene	119	11.494	11.497	(1.329)	2644375	11.0496	11.0
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.331)	2401663	11.1466	11.1
83	1,3-Dichlorobenzene	146	11.793	11.793	(1.364)	1455346	11.0149	11.0
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	3411687	11.0237	11.0
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	2201578	10.5315	10.5(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	1494941	11.2597	11.3
87	1,4-Dichlorobenzene	146	11.886	11.889	(1.375)	1420976	10.9651	11.0
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	2854575	12.3270	12.3
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	2297958	10.9398	10.9
90	1,2-Dichlorobenzene	146	12.278	12.281	(1.420)	1349948	11.5087	11.5
91	N-Butylbenzene	91	12.458	12.461	(1.441)	2352986	10.8187	10.8
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	481797	10.4736	10.5
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.623)	440676	11.1955	11.2
94	Naphthalene	128	14.159	14.156	(1.638)	1307066	10.0964	10.1
95	Hexachlorobutadiene	225	14.407	14.400	(1.666)	535873	9.81923	9.82

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002_27967.D
Report Date: 23-Mar-2017 15:22

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08002_27967.D
Lab Smp Id: 254163I
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m
Misc Info: 27967

Calibration Date: 20-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

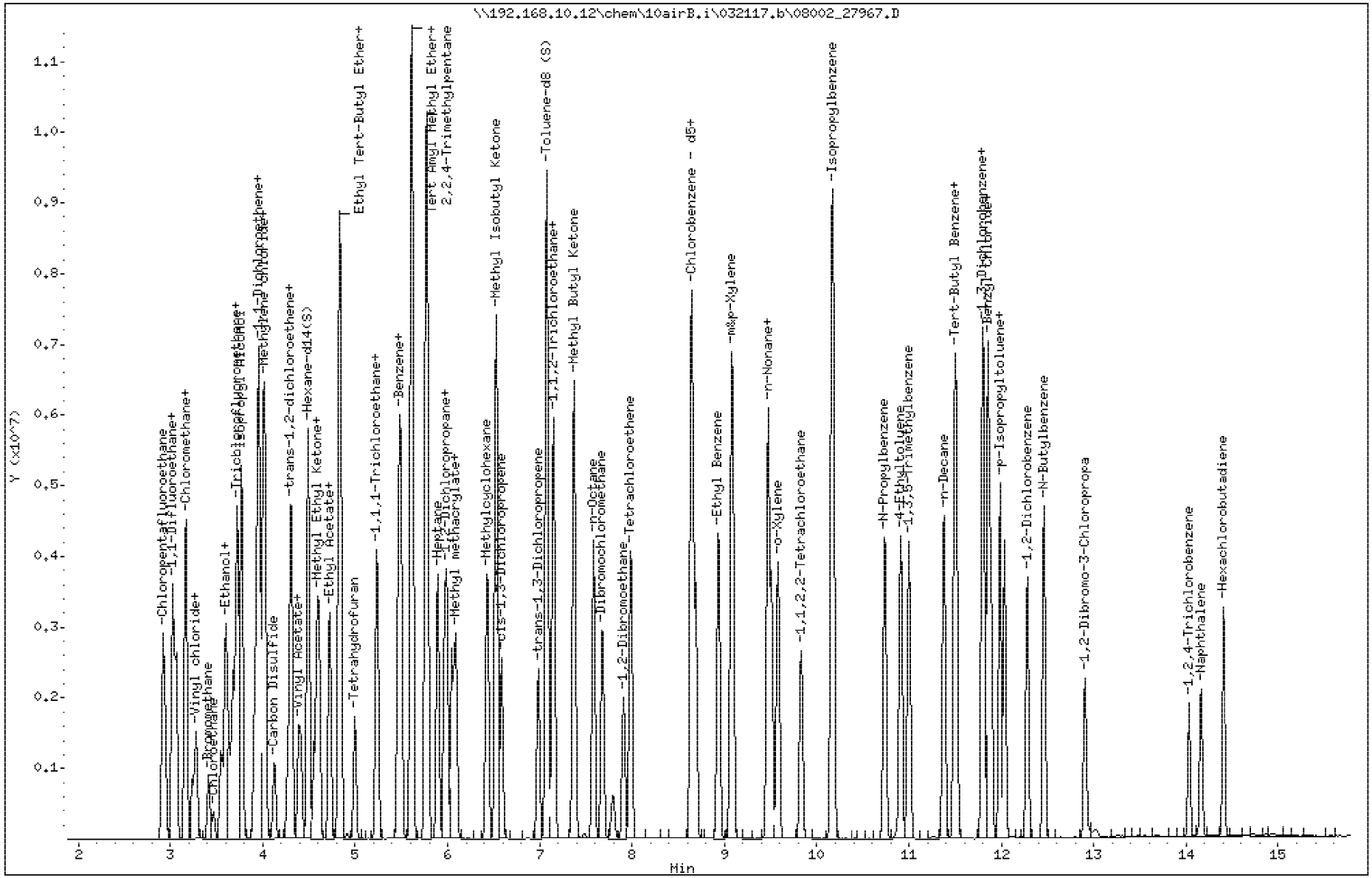
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	7641086	4584652	10697520	6291578	-17.66
67 Chlorobenzene - d	5205948	3123569	7288327	4331960	-16.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.64	8.31	8.97	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

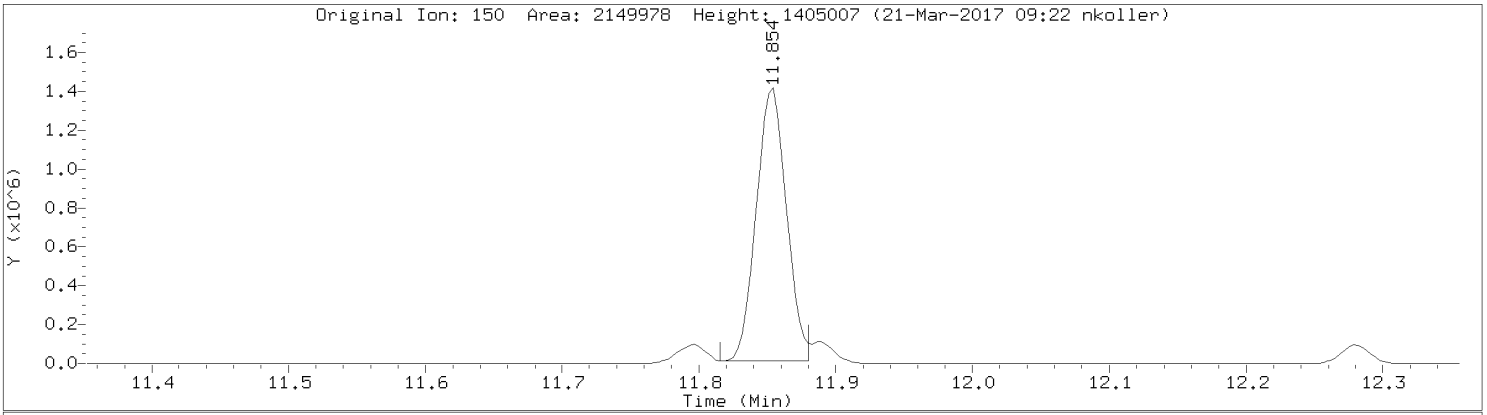
Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002_27967.D
Date : 21-MAR-2017 09:03
Client ID:
Sample Info:

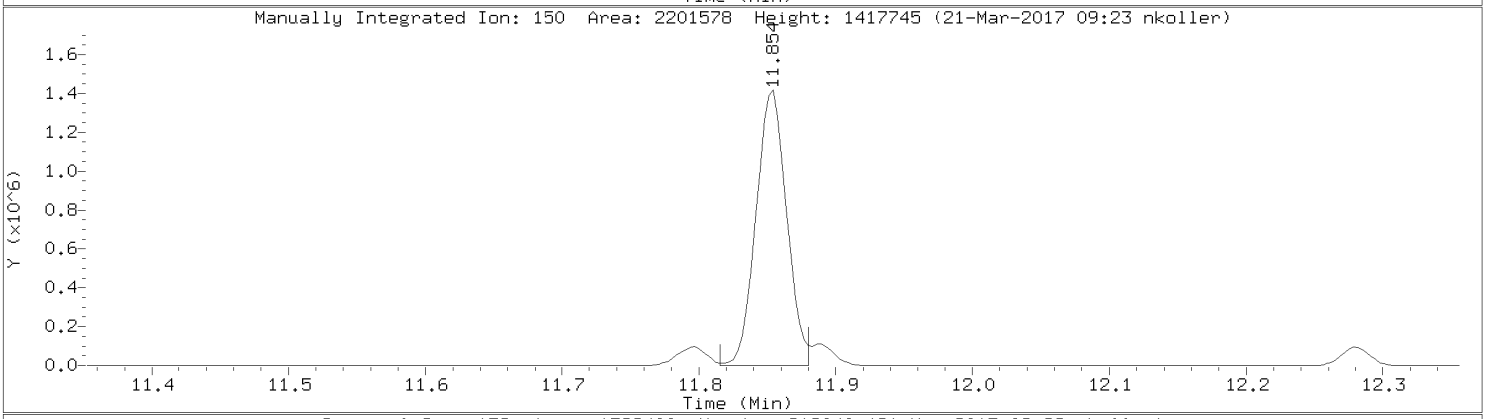
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

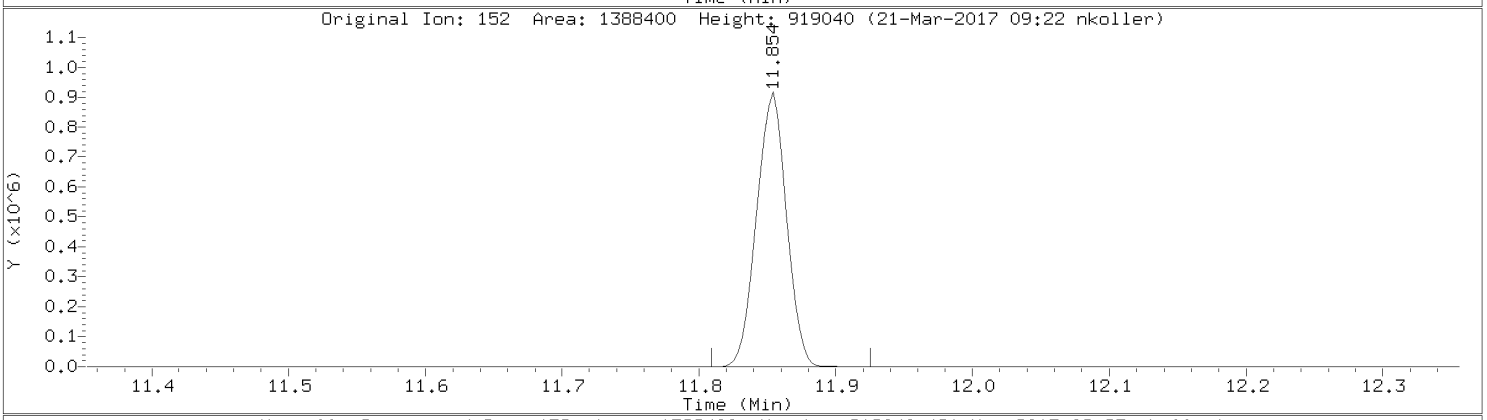


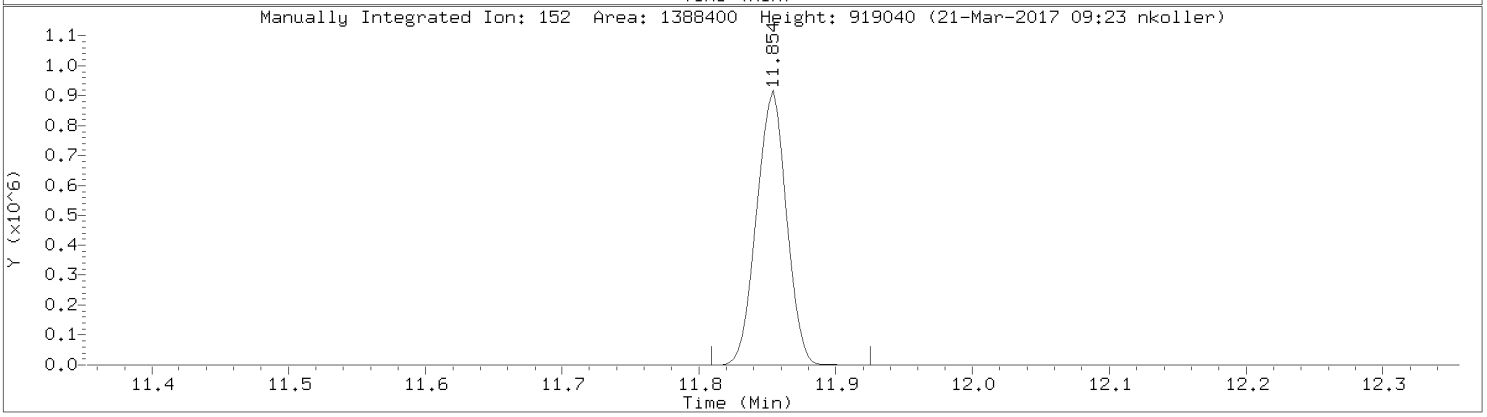
Data File: \\192.168.10.12\chem\10airB.i\032117.b/08002.D
Injection Date: 21-MAR-2017 09:03
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Equation 1: Concentration of each component in the flask (Static Dilution Technique, section 10.4.1. S-MN-A-013 rev. 19).

$$\text{Concentration}(\text{mg/L}) = \frac{(V_i)(d)}{V_f}$$

where:

V_i =Volume of liquid neat standard injected into the flask in mL;
d=Density of the liquid neat standard in mg/mL;
V_f =Volume of the flask in liters.

Caution: In the preparation of standards by this technique, make sure that the volume of neat standard injected into the flask does not result in an overpressure due to the higher partial pressure produced by the standard compared to the vapor pressure in the flask.

Equation 2: First determine the volume of the compound as a gas.

$$V = \frac{nRT}{P} \quad \text{where,} \quad n = \frac{(V_i)(d)}{M}$$

where,
V=Volume of injected compound at STP in liters;
n=Moles;
R=Gas constant (0.08206 L-atm/mole ^{o}K);
T=Ambient temperature in ^{o}K;
P=Ambient pressure in atm;
V_i=Volume of liquid neat standard injected into the flask in mL;
d=Density of the neat standard in g/mL;
M=Molecular weight of the compound in g/mole.

Equation 3: Now calculate the concentration in the flask in ppbv.

$$\text{ppbv} = \frac{V}{V_f}(10^9)$$

where:
V=Gas volume of compound as determined in Eq. 8 in liters;
V_f=Volume of static dilution flask in liters.

Equation 4*:* The concentration in ppbv of each compound in the canister can be determined.

$$\text{ppbv} = \frac{(V_i)(C_x)}{V_c}$$

where:
V_i=Volume removed from static dilution flask and injected into the canister in liters;
C_x=Concentration of compound *x* in the static dilution flask in ppbv;
V_c=Final canister volume in liters.

Equation 5: Calculate the relative response factors (RRF) for each compound.

$$\text{Relative Response Factor (RRF)} = \frac{(A_x)(C_i)}{(A_i)(C_x)}$$

where,
A_x=Area of the primary ion for compound *x* to be measured;
A_i=Area of the primary ion for the internal standard associated with compound *x*;
C_i=Concentration of the internal standard in ppbv;
C_x =Concentration of compound *x* to be measured in ppbv.

Equation 6: Calculate the mean RRF for each compound.

$$\overline{R_f} = \frac{\sum_{n=5} R_f}{n}$$

where,
$\overline{R_f}$ =Average relative response factor;
R_f=Relative response factor from calibration curve;
n=Number of data points.

Equation 7: Standard Deviation.

$$\sigma_{(n-1)} = \sqrt{\sum_{i-1}^{n} \frac{(x_i - \bar{x})^2}{(n-1)}}$$

Equation 8: %Relative Standard Deviation (%RSD).

$$\%RSD = \frac{s_{(n-1)}}{\bar{R}_f} x100$$

Equation 9: Mean area response for Internal Standard.

$$\bar{y} = \sum_{i=1}^{n} \frac{y_i}{n}$$

where,

$\bar{y}$ = mean area response

y = Area response for the internal standard for each initial calibration standard

Equation 10: If a linear regression is used, the regression produces the slope and intercept terms for a linear equation.

y = ax + b

where:

y = instrument response (peak area or height)

a = Slope of the line (also called the coefficient of x)

x = Concentration of the calibration standard

b = the intercept, do not include the origin (0) as a calibration point

Equation 11: To calculate the sample concentration by the internal standard method using the linear regression.

$C_s=[(A_sC_{is}/A_{is})-b]/a$

where:

As = Area of the peak for the target analyte in the sample

Ais = Area of the peak of the internal standard

Cs = Concentration of the target analyte in the calibration standard

Cis = Concentration of the internal standard

a = Slope of the line (also called the coefficient of Cs)

b = The intercept

Equation 12: To calculate the coefficient of determination (or r^2) for a quadratic curve fit.

$$COD = \frac{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2 - \left(\frac{n-1}{n-p}\right)\sum_{i=1}^{n}(y_{obs} - Y_i)^2}{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2}$$

where:
y_{obs} = Observed response for each concentration from each initial calibration standard
y = Mean observed response from the initial calibration (See equation 6)
Y_i = Calculated response at each concentration from the initial calibration (See Equation 5)
n = Total number of calibration points in the equation, 6 points for quadratic
p = Number of adjustable parameters in the polynomial equation

Equation 13: Calculate the sample concentration by the internal standard method using the quadratic regression by comparing peak heights to the calibration curve.

Regression equation (quadratic):

$y = ax^2 + bx + c$

Equation 14: Percent Difference (%D). The % D in the RRF of the daily RRF of an individual compound compared to the mean RRF for that compound in the most recent calibration curve.

$$\%D = \frac{|R_i - R_c|}{R_i}(100)$$

where,

R_i=The average RRF from the initial calibration curve for compound *x*;
R_c=RRF for compound *x* from the CCV standard.

Equation 15: Calculate the percent recovery of the LCS.

$$\text{Percent Recovery} = \frac{C_q}{C_a}(100)$$

where:
C_q=Quantitated concentration of compound *x* in ppbv;
C_a=Actual concentration of compound *x* in ppbv.

Equation 16: Calculate the resultant dilution factor.

DF = (Pf + 14.7) / Pi + 14.7)

Pi = Pressure reading of canister prior to pressurization (psig)
Pf = Pressure reading of canister after pressurization (psig)
DF = Dilution factor

To convert Hg to psig:
Multiply by 0.491559 or divide by 2.036

PSIG reading is converted to One Atmosphere:
One Atmosphere = 14.7 psig = 29.21 inches of Hg

Equation 17: Calculate the concentration of the sample component.

$$C_x = \frac{(A_x)(C_i)(D_f)}{(A_i)(R_f)}$$

where:

C_x=Concentration of compound *x* in ppbv;
A_x=EICP area of the quantitation ion for compound *x*;
C_i=Concentration of the internal standard associated with compound *x* in ppbv;
D_f=Dilution factor from Equation 12 (if no dilution was performed, D_f equals 1.)
A_i=EICP area of the quantitation ion for the internal standard associated with compound *x*;
R_f=Average RRF for compound *x* from the most recent calibration curve.

Equation 18: The RPD between the sample and the sample duplicate.

$$RPD = \frac{|A - B|}{(A + B)/2} \times 100$$

Where:

RPD = Relative Percent Difference
A = Sample Value
B = Duplicate Value

Equation 19: Convert ppbv to µg/m³.

$$\frac{(x\ ppbv \times MW\frac{g}{mol})}{24.055\frac{L}{mol}} = y\frac{\mu g}{m^3}$$

Where:

MW = Molecular Weight
24.055 L/mol = Molar Volume of an ideal Gas

$$PV = nRT$$

$$V = \frac{nRT}{P}$$

Where:

V = Volume in liters
N = mols of ideal Gas (1 mol)
R = Ideal gas constant
T = Temperatire in Kelvin

$$V = \frac{(1mol) \times (0.082\ \frac{(L \times atm)}{(mol \times K)} \times 293.15K}{1\ atm}$$

$$V = 24.055\frac{L}{mol}$$

Equation 20: Preparation of Working TO15 Standard.

$$\frac{X}{Y} \times C = Z$$

Where:

X = Volume (L) spiked from stock
Y = Volume (L) of container
C = Concentration (ppbv) of Stock
Z = Concentration (ppbv) of working standard

DATA USABILITY SUMMARY REPORT
FEBRUARY/MARCH 2017 AIR SAMPLES
PROJECT: LMC GREAT NECK
NEW YORK
DATE SAMPLES COLLECTED: MARCH 2, 2017

LAB REPORT No. 10381035

1.0 INTRODUCTION

Twenty-two air samples including three field duplicate pairs were collected by Tetra Tech, Inc., at the Lockheed Martin Great Neck site on March 2, 2017. The samples were sent to Pace Analytical Services, LLC in Minneapolis, Minnesota. All analyses were conducted in accordance with USEPA TO-15 analytical and reporting protocols.

The data package deliverables provided by the laboratory included a Category B deliverable as outlined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols.

Data validation was performed on the aforementioned samples in accordance with EPA Region II data validation guidelines and USEPA Method TO-15. Data validation was conducted using USEPA Region II Standard Operating Procedure (SOP) HW-31, September 2016, Revision 6.

The Data Usability Summary Report (DUSR) was prepared after the process of data validation was completed and summarizes the overall data quality and usability in accordance with the NYSDEC Technical Guidance for Site Investigation and Remediation (NYSDEC 2010).

The DUSR review is based on the following parameters:

* ● Data completeness
* ● Hold times/Sample Preservation
* ● GC/MS System Tuning and Performance
● Initial/continuing calibrations
● Laboratory Method Blank Results
* ● Internal Standard Results
● Laboratory Control Sample Results
* ● Laboratory Duplicate Precision
● Field Duplicate Precision
* ● Compound Identification/Quantitation
* ● Tentatively Identified Compounds Results
● Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

This report was prepared to provide a critical review of the laboratory analysis and reported chemical results. Overall, the data quality is acceptable. The results of the DUSR are presented in Section 3.0. Summary tables are provided. Attachments 1, 2, and 3 are provided so that the data user can review the qualified analytical results, results reported by the laboratory and the supporting documentation associated with data findings and data quality.

2.0 SAMPLES INCLUDED IN REVIEW

Lab Report No. 10381035

Sample ID	Lab ID	Date Collected	Test Requested
VP-1_10_2017032	10381035002	3/2/2017	VOCs
VP-1_20_20170302	10381035003	3/2/2017	VOCs
VP-1_30_20170302	10381035004	3/2/2017	VOCs
VP-1_30_20170302DUP	10381035022	3/2/2017	VOCs
VP-1_5_20170302	10381035001	3/2/2017	VOCs
VP-106_11_20170302	10381035014	3/2/2017	VOCs
VP-106_19.5_20170302	10381035015	3/2/2017	VOCs
VP-106_28_20170302	10381035016	3/2/2017	VOCs
VP-106_5_20170302	10381035013	3/2/2017	VOCs
VP-106_56_20170302	10381035017	3/2/2017	VOCs
VP-106_72_20170302	10381035018	3/2/2017	VOCs
VP-106_72_20170302DUP	10381035020	3/2/2017	VOCs
VP-106_84_20170302	10381035019	3/2/2017	VOCs
VP-2_10_20170302	10381035006	3/2/2017	VOCs
VP-2_10_20170302DUP	10381035021	3/2/2017	VOCs
VP-2_20_20170302	10381035007	3/2/2017	VOCs
VP-2_30_20170302	10381035008	3/2/2017	VOCs
VP-2_5_20170302	10381035005	3/2/2017	VOCs
VP-4_10_20170302	10381035010	3/2/2017	VOCs
VP-4_20_20170302	10381035011	3/2/2017	VOCs
VP-4_30_20170302	10381035012	3/2/2017	VOCs
VP-4_5_20170302	10381035009	3/2/2017	VOCs

Legend:

VOCs = Volatile Organic Compounds in accordance with EPA TO-15 Method

3.0 RESULTS

3.1 DATA COMPLETENESS

With regard to the data package deliverables, the format requirements were met, and no further action was required from the laboratory.

Clean canister certification samples should be included in every data package to verify the canister cleaning was performed according to method requirements. The laboratory was contacted and described that they perform canister cleaning on all sample containers but only provide analysis on a single canister on a batch basis. The laboratory was asked to provide the clean canister results, however, the clean canister results were not provided at the time of this report.

3.2 QUALITY CONTROL PARAMETERS

Hold Times/Sample Preservation: Technical hold times and preservation were assessed by comparing the sample dates and preservation code on the sample Chain of Custody (COC) with that of the analysis dates.

- All project samples were properly preserved and analyzed within the required hold time for VOC analyses.

GC/MS Performance Check (Tuning) Summary: Gas chromatograph/mass spectrometer (GC/MS) instrument tuning and performance checks are performed to ensure the instrument's ability to provide appropriate mass-resolution, identification and sensitivity.

- The BFB tuning compound mass-ion abundance criteria for the VOC analyses were reported within control limits.

Initial and Continuing Calibration Results: Control limits for initial and continuing instrument calibrations are established to ensure that the instrument is capable of producing accurate quantitative data.

- The continuing calibrations performed on 03/20/2017 @ 09:10, 03/21/2017 @ 09:23, and 03/22/2017 @ 09:05 had Percent Differences (%Ds) for 1,1-dichloro-2,2,2-trifluoroethane and chlorodibromomethane which exceeded the 30% quality control limit. All samples were affected. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).

- The initial calibration Percent Relative Standard Deviations (%RSDs) were below the 30% quality control criterion. All initial and continuing calibration Relative Response Factors (RRFs) were within acceptable quality control limits for the parameters reviewed.

Laboratory Method Blank Contamination:

- No target compound contaminants were detected in the laboratory method blanks associated with the reviewed parameters in this data set.

- Methylene chloride was detected in 16 of 22 samples. Methylene chloride was not reported or detected in the associated laboratory method blanks. Despite the absence of methylene chloride in the method blanks, the data reviewer has qualified all methylene chloride detections as estimated, (J), considering them suspected laboratory contaminants.

Internal Standards Area Performance:

- The internal standard area counts and retention times fell within control limits for the project samples received and reviewed.

Laboratory Control Spike (LCS) Results:

- The LCS results associated with the samples were within the quality control limits, verifying the overall accuracy and precision associated with the parameters reviewed in a clean matrix.

Laboratory Duplicate Precision: Laboratory duplicates are analyzed to provide information on laboratory analysis precision.

- Samples VP-1_10_2017032 and VP-106_11_20170302 were analyzed as laboratory duplicate samples. The Relative Percent Differences (RPDs) were below the 25% quality control criterion for all detected results verifying laboratory duplicate precision.

Field Duplicate Precision: Field duplicates are collected to provide information on sampling precision.

- VP-1_30_20170302DUP was collected as a field duplicate sample of VP-1_30_20170302. The Relative Percent Differences (RPDs) for acetone exceeded the 50% quality control limit. In addition, the differences between detected and/or non-detected results (where one sample result was less than 2X the Reporting Limit (RL)) for hexane and methylene chloride exceeded 2X the RL. The detected and non-detected results reported for these compounds in the field duplicate pair were qualified as estimated, (J) and (UJ), respectively, due to field duplicate imprecision. The remaining results associated with these two samples fell within quality control limits, thereby satisfying precision.

- VP-2_10_20170302DUP was collected as a field duplicate sample of VP-2_10_20170302. The RPD for acetone exceeded the 50% quality control limit. The detected results reported for acetone in the field duplicate pair was qualified as estimated, (J), due to field duplicate imprecision. The remaining results associated with these two samples fell within quality control limits, thereby satisfying precision.

- VP-106_72_20170302DUP was collected as a field duplicate sample of VP-106_72_20170302. The RPDs for acetone and trichloroethene exceeded the 50% quality control limit. In addition, the differences between detected and/or non-detected results (where one sample result was less than 2X the Reporting Limit (RL)) for hexane and methylene chloride exceeded 2X the RL. The detected and non-detected results reported for these compounds in the field duplicate pair were qualified as estimated, (J) and (UJ), respectively, due to field duplicate imprecision. The remaining results associated with these two samples fell within quality control limits, thereby satisfying precision.

Target Compound Identification and Quantitation: The laboratory calculations are verified and compound identifications are reviewed and assessed by the data reviewer.

- The GC/MS raw data (quantitation reports and chromatograms) were provided for review. No laboratory calculation errors were noted for the sample selected for verification during data validation.

Tentatively Identified Compounds (TIC) Results: A targeted TIC library search was conducted for each air sample for the compound 1,2-difluoroethane.

- 1,2-Difluoroethane was not detected in the targeted TIC library search in the reviewed samples. No Reporting Limit (RL) was assigned. This compound was not included on the sample Form Is or the electronic deliverable.

Detection Limits: Non-detected results were reported to the RL. All samples were initially diluted approximately 2X (1.34X to 2.35X). The RLs of the non-detected results were elevated.

- Trichloroethene and tetrachloroethene exceeded the calibration range of the instrument in sample VP-106_72_20170302DUP. The sample was reanalyzed and the results differed by more than a factor of ten. The results of the environmental sample in this field duplicate pair had results similar to the initial analysis of sample VP-106_72_20170302DUP. Therefore, the results for trichloroethene and tetrachloroethene from the initial analysis were used in the data validation. The detected results were qualified as estimated, (J), due to the exceedance of the linear calibration range.

- The following samples were further diluted due to concentrations of target compounds:

Sample	Compound	Dilution
VP-106_56_20170302	Tetrachloroethene	33.6X
	Trichloroethene	33.6X
VP-106_72_20170302	Tetrachloroethene	43.15X
	Trichloroethene	43.15X
VP-106_84_20170302	Tetrachloroethene	35.91X
	Trichloroethene	35.91X
VP-2_10_20170302	cis-1,2-Dichloroethene	70X
	Tetrachloroethene	70X
VP-2_10_20170302DUP	cis-1,2-Dichloroethene	84X
	Tetrachloroethene	84X

  The results from the diluted analyses were used in the data review.

- Detected results reported below the RL but above the Method Detection Limit (MDL) were qualified as estimated, (J).

Additional Comments: According to the laboratory, the sample canisters were batch certified. All sample canisters contained an initial vacuum of approximately -30 psig (-26 to -30 psig) and finished at -7.0 to -9.5 psig.

4.0 CONCLUSIONS

Overall, based on the outcome of data validation and as summarized in the DUSR and with the exception to the presence of methylene chloride which may be a laboratory contaminant, the data quality is acceptable with the qualifiers noted in this report.

Tetra Tech, Inc.
Michelle L. Allen
Chemist/Data Validator

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

May 31, 2017

Attachments:
Attachment 1 – Qualified Analytical Results
Attachment 2 – Results as Reported by the Laboratory
Attachment 3 – Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Attachment 1

Qualified Analytical Results

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed
Z3 = Tentatively Identified Compound aldol condensate
Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 07792	NSAMPLE	VP-1_10_2017032			VP-1_20_20170302			VP-1_20_20170302-DL			VP-1_30_20170302		
SDG: 10381035	LAB_ID	10381035002			10381035003			10381035003			10381035004		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.9	U		1.9	U					1.9	U	
1,1,2,2-TETRACHLOROETHANE		2.3	U		2.3	U					2.4	U	
1,1,2-TRICHLOROETHANE		0.92	U		0.92	U					0.96	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.7	U		0.86	J	P				1.3	J	P
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.3	UJ	C	5.3	UJ	C				5.6	UJ	C
1,1-DICHLOROETHANE		1.4	U		1.4	U					1.4	U	
1,1-DICHLOROETHENE		1.4	U		1.4	U					1.4	U	
1,2,4-TRICHLOROBENZENE		6.3	U		6.3	U					6.6	U	
1,2,4-TRIMETHYLBENZENE		1.3	J	P	2.6						1.5	J	P
1,2-DIBROMO-3-CHLOROPROPANE		8.2	U		8.2	U					8.6	U	
1,2-DIBROMOETHANE		2.6	U		2.6	U					2.7	U	
1,2-DICHLOROBENZENE		2	U		2	U					2.1	U	
1,2-DICHLOROETHANE		0.69	U		0.69	U					0.72	U	
1,2-DICHLOROPROPANE		1.6	U		1.6	U					1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.4	U		2.4	U					2.5	U	
1,3,5-TRIMETHYLBENZENE		1.7	U		1.5	J	P				1.3	J	P
1,3-BUTADIENE		0.76	U		0.76	U					0.79	U	
1,3-DICHLOROBENZENE		2	U		2	U					2.1	U	
1,4-DICHLOROBENZENE		2	U		2	U					2.1	U	
1,4-DIOXANE		6.1	U		6.1	U					6.4	U	
1-ETHYL-4-METHYL BENZENE		1.4	J	P	1.8						1.8		
2-BUTANONE		5	U		8.4						5.2	U	
2-HEXANONE		7	U		7	U					7.3	U	
3-CHLOROPROPENE		2.7	U		2.7	U					2.8	U	
4-METHYL-2-PENTANONE		7	U		7	U					7.3	U	
ACETONE		6.8			82.5						18.4	J	G
BENZENE		0.55	U		1.2						0.52	J	P
BROMODICHLOROMETHANE		2.3	U		2.3	U					2.4	U	
BROMOFORM		8.8	U		8.8	U					9.2	U	
BROMOMETHANE		1.3	U		1.3	U					1.4	U	
CARBON DISULFIDE		1.1	U		1.1	U					1.1	U	
CARBON TETRACHLORIDE		1.1	U		1.1	U					1.1	U	
CHLOROBENZENE		1.6	U		1.6	U					1.6	U	
CHLORODIBROMOMETHANE		2.9	UJ	C	2.9	UJ	C				3	UJ	C
CHLORODIFLUOROMETHANE		1.2			4.4						1.3	U	

PROJ_NO: 07792	NSAMPLE	VP-1_30_20170302DUP			VP-1_5_20170302			VP-106_11_20170302			VP-106_19.5_20170302		
SDG: 10381035	LAB_ID	10381035022			10381035001			10381035014			10381035015		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF	VP-1_30_20170302											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.9	U		1.9	U		1.9	U		1.8	U	
1,1,2,2-TETRACHLOROETHANE		2.4	U		2.3	U		2.3	U		2.2	U	
1,1,2-TRICHLOROETHANE		0.96	U		0.92	U		0.92	U		0.89	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		1.4	J	P	0.78	J	P	2.7	U		0.84	J	P
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	UJ	C	5.3	UJ	C	5.3	UJ	C	5.1	UJ	C
1,1-DICHLOROETHANE		1.4	U		1.4	U		1.4	U		1.3	U	
1,1-DICHLOROETHENE		1.4	U		1.4	U		1.4	U		1.3	U	
1,2,4-TRICHLOROBENZENE		6.6	U		6.3	U		6.3	U		6.1	U	
1,2,4-TRIMETHYLBENZENE		1.3	J	P	1.7			1.2	J	P	1.2	J	P
1,2-DIBROMO-3-CHLOROPROPANE		8.6	U		8.2	U		8.2	U		7.9	U	
1,2-DIBROMOETHANE		2.7	U		2.6	U		2.6	U		2.5	U	
1,2-DICHLOROBENZENE		2.1	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE		0.72	U		0.69	U		0.69	U		0.66	U	
1,2-DICHLOROPROPANE		1.6	U		1.6	U		1.6	U		1.5	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U		2.4	U		2.4	U		2.3	U	
1,3,5-TRIMETHYLBENZENE		1.3	J	P	1.4	J	P	1.7	U		1.6	U	
1,3-BUTADIENE		0.79	U		0.76	U		0.76	U		0.72	U	
1,3-DICHLOROBENZENE		2.1	U		2	U		2	U		2	U	
1,4-DICHLOROBENZENE		1.8	J	P	2	U		2	U		2	U	
1,4-DIOXANE		6.4	U		6.1	U		6.1	U		5.9	U	
1-ETHYL-4-METHYL BENZENE		1.8	U		1.4	J	P	1.7	U		1.4	J	P
2-BUTANONE		5.2	U		2.6	J	P	6.1			13.3		
2-HEXANONE		7.3	U		7	U		7	U		6.7	U	
3-CHLOROPROPENE		2.8	U		2.7	U		2.7	U		2.6	U	
4-METHYL-2-PENTANONE		7.3	U		7	U		7	U		6.7	U	
ACETONE		8.7	J	G	52.8			7.9			19.5		
BENZENE		0.57	U		1.2			0.55	U		0.27	J	P
BROMODICHLOROMETHANE		2.4	U		2.3	U		2.3	U		2.2	U	
BROMOFORM		9.2	U		8.8	U		8.8	U		8.5	U	
BROMOMETHANE		1.4	U		1.3	U		1.3	U		1.3	U	
CARBON DISULFIDE		1.1	U		1.1	U		1.1	U		2.4		
CARBON TETRACHLORIDE		1.1	U		0.72	J	P	1.1	U		1	U	
CHLOROBENZENE		1.6	U		1.6	U		1.6	U		1.5	U	
CHLORODIBROMOMETHANE		3	UJ	C	2.9	UJ	C	2.9	UJ	C	2.8	UJ	C
CHLORODIFLUOROMETHANE		1.3	U		5.4			0.74	J	P	1.2	U	

PROJ_NO: 07792	NSAMPLE	VP-106_28_20170302			VP-106_28_20170302-DL			VP-106_5_20170302			VP-106_56_20170302		
SDG: 10381035	LAB_ID	10381035016			10381035016			10381035013			10381035017		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.9	U					2.2	U		1.1	J	P
1,1,2,2-TETRACHLOROETHANE		2.4	U					2.8	U		2.3	U	
1,1,2-TRICHLOROETHANE		0.96	U					1.1	U		0.92	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		1.2	J	P				3.2	U		64.7		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	UJ	C				6.4	UJ	C	5.3	UJ	C
1,1-DICHLOROETHANE		1.4	U					1.6	U		1.4	U	
1,1-DICHLOROETHENE		1.4	U					1.6	U		0.71	J	P
1,2,4-TRICHLOROBENZENE		6.6	U					7.6	U		6.3	U	
1,2,4-TRIMETHYLBENZENE		8.8						1.6	J	P	1.6	J	P
1,2-DIBROMO-3-CHLOROPROPANE		8.6	U					9.9	U		8.2	U	
1,2-DIBROMOETHANE		2.7	U					3.1	U		2.6	U	
1,2-DICHLOROBENZENE		2.1	U					2.5	U		2	U	
1,2-DICHLOROETHANE		0.72	U					0.82	U		0.69	U	
1,2-DICHLOROPROPANE		1.6	U					1.9	U		1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U					2.9	U		2.4	U	
1,3,5-TRIMETHYLBENZENE		2.8						1.5	J	P	1.2	J	P
1,3-BUTADIENE		0.79	U					0.9	U		0.76	U	
1,3-DICHLOROBENZENE		2.1	U					2.5	U		2	U	
1,4-DICHLOROBENZENE		1.6	J	P				2.5	U		1.6	J	P
1,4-DIOXANE		6.4	U					7.4	U		6.1	U	
1-ETHYL-4-METHYL BENZENE		2.3						2	U		1.6	J	P
2-BUTANONE		5.2	U					6	U		5	U	
2-HEXANONE		7.3	U					8.4	U		7	U	
3-CHLOROPROPENE		2.8	U					3.2	U		2.7	U	
4-METHYL-2-PENTANONE		7.3	U					8.4	U		7	U	
ACETONE		28.1						16.3			15.8		
BENZENE		0.54	J	P				0.65	U		0.56		
BROMODICHLOROMETHANE		2.1	J	P				2.7	U		2.3	U	
BROMOFORM		9.2	U					10.6	U		4.1	J	P
BROMOMETHANE		1.4	U					1.6	U		1.3	U	
CARBON DISULFIDE		1.1	U					12.6			0.64	J	P
CARBON TETRACHLORIDE		1.1	U					1.3	U		1.1	U	
CHLOROBENZENE		1.6	U					1.9	U		1.6	U	
CHLORODIBROMOMETHANE		3	UJ	C				3.5	UJ	C	2.9	UJ	C
CHLORODIFLUOROMETHANE		1.3	U					1.4	U		1.2	U	

PROJ_NO: 07792	NSAMPLE	VP-106_56_20170302-DL			VP-106_72_20170302			VP-106_72_20170302-DL			VP-106_72_20170302DUP		
SDG: 10381035	LAB_ID	10381035017			10381035018			10381035018			10381035020		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF										VP-106_72_20170302		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					1.5	J	P				1.5	J	P
1,1,2,2-TETRACHLOROETHANE					2.3	U					2.4	U	
1,1,2-TRICHLOROETHANE					0.92	U					0.96	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					78.9						82.7		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					5.3	UJ	C				5.6	UJ	C
1,1-DICHLOROETHANE					1.4	U					1.4	U	
1,1-DICHLOROETHENE					2.7						2.7		
1,2,4-TRICHLOROBENZENE					6.3	U					6.6	U	
1,2,4-TRIMETHYLBENZENE					1.7						1.4	J	P
1,2-DIBROMO-3-CHLOROPROPANE					8.2	U					8.6	U	
1,2-DIBROMOETHANE					2.6	U					2.7	U	
1,2-DICHLOROBENZENE					2	U					2.1	U	
1,2-DICHLOROETHANE					0.69	U					0.72	U	
1,2-DICHLOROPROPANE					1.6	U					1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE					2.4	U					2.5	U	
1,3,5-TRIMETHYLBENZENE					1.4	J	P				1.3	J	P
1,3-BUTADIENE					0.76	U					0.79	U	
1,3-DICHLOROBENZENE					2	U					2.1	U	
1,4-DICHLOROBENZENE					2	U					2.1	U	
1,4-DIOXANE					6.1	U					6.4	U	
1-ETHYL-4-METHYL BENZENE					1.5	J	P				1.5	J	P
2-BUTANONE					3.8	J	P				5.2	U	
2-HEXANONE					7	U					7.3	U	
3-CHLOROPROPENE					2.7	U					2.8	U	
4-METHYL-2-PENTANONE					2.8	J	P				7.3	U	
ACETONE					44.9	J	G				25.6	J	G
BENZENE					1.1						0.91		
BROMODICHLOROMETHANE					2.3	U					2.4	U	
BROMOFORM					8.8	U					9.2	U	
BROMOMETHANE					1.3	U					1.4	U	
CARBON DISULFIDE					1.1	U					1.1	U	
CARBON TETRACHLORIDE					1.1	U					1.1	U	
CHLOROBENZENE					1.6	U					1.6	U	
CHLORODIBROMOMETHANE					2.9	UJ	C				3	UJ	C
CHLORODIFLUOROMETHANE					1.2	U					1.3	U	

PROJ_NO: 07792	NSAMPLE	VP-106_84_20170302			VP-106_84_20170302-DL			VP-2_10_20170302			VP-2_10_20170302-DL		
SDG: 10381035	LAB_ID	10381035019			10381035019			10381035006			10381035006		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		2.4						7.2					
1,1,2,2-TETRACHLOROETHANE		1.9	U					2.4	U				
1,1,2-TRICHLOROETHANE		0.74	U					0.96	U				
1,1,2-TRICHLOROTRIFLUOROETHANE		81.9						1.4	J	P			
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		4.3	UJ	C				5.6	UJ	C			
1,1-DICHLOROETHANE		1.1	U					6.7					
1,1-DICHLOROETHENE		7.7						13.5					
1,2,4-TRICHLOROBENZENE		5.1	U					6.6	U				
1,2,4-TRIMETHYLBENZENE		1.4						1.2	J	P			
1,2-DIBROMO-3-CHLOROPROPANE		6.6	U					8.6	U				
1,2-DIBROMOETHANE		2.1	U					2.7	U				
1,2-DICHLOROBENZENE		1.6	U					2.1	U				
1,2-DICHLOROETHANE		0.55	U					0.72	U				
1,2-DICHLOROPROPANE		1.3	U					1.6	U				
1,2-DICHLOROTETRAFLUOROETHANE		1.9	U					2.5	U				
1,3,5-TRIMETHYLBENZENE		1.1	J	P				1.7	U				
1,3-BUTADIENE		0.6	U					0.79	U				
1,3-DICHLOROBENZENE		1.6	U					2.1	U				
1,4-DICHLOROBENZENE		1.3	J	P				2.1	U				
1,4-DIOXANE		4.9	U					6.4	U				
1-ETHYL-4-METHYL BENZENE		1.3	J	P				1.8	U				
2-BUTANONE		3	J	P				5.2	U				
2-HEXANONE		5.6	U					2.3	J	P			
3-CHLOROPROPENE		2.1	U					2.8	U				
4-METHYL-2-PENTANONE		5.6	U					7.3	U				
ACETONE		12.9						5.7	J	G			
BENZENE		0.59						0.57	U				
BROMODICHLOROMETHANE		1.8	U					2.4	U				
BROMOFORM		7	U					9.2	U				
BROMOMETHANE		1.1	U					1.4	U				
CARBON DISULFIDE		0.59	J	P				1.1	U				
CARBON TETRACHLORIDE		0.86	U					1.1	U				
CHLOROBENZENE		1.3	U					1.6	U				
CHLORODIBROMOMETHANE		2.3	UJ	C				3	UJ	C			
CHLORODIFLUOROMETHANE		0.96	U					1.3	U				

PROJ_NO: 07792	NSAMPLE	VP-2_10_20170302DUP			VP-2_10_20170302DUP-DL			VP-2_20_20170302			VP-2_30_20170302		
SDG: 10381035	LAB_ID	10381035021			10381035021			10381035007			10381035008		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF	VP-2_10_20170302			VP-2_10_20170302								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		7.5						3			2.4		
1,1,2,2-TETRACHLOROETHANE		2.3	U					2.4	U		2.3	U	
1,1,2-TRICHLOROETHANE		0.92	U					0.96	U		0.92	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		1.5	J	P				1.9	J	P	54.4		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.3	UJ	C				5.6	UJ	C	5.3	UJ	C
1,1-DICHLOROETHANE		6.8						1.4	J	P	1.4	U	
1,1-DICHLOROETHENE		14.1						1.4	U		0.72	J	P
1,2,4-TRICHLOROBENZENE		6.3	U					6.6	U		6.3	U	
1,2,4-TRIMETHYLBENZENE		1.3	J	P				1.4	J	P	1.5	J	P
1,2-DIBROMO-3-CHLOROPROPANE		8.2	U					8.6	U		8.2	U	
1,2-DIBROMOETHANE		2.6	U					2.7	U		2.6	U	
1,2-DICHLOROBENZENE		2	U					2.1	U		2	U	
1,2-DICHLOROETHANE		0.46	J	P				0.72	U		0.69	U	
1,2-DICHLOROPROPANE		1.6	U					1.6	U		1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.4	U					2.5	U		2.4	U	
1,3,5-TRIMETHYLBENZENE		1.3	J	P				1.7	J	P	1.4	J	P
1,3-BUTADIENE		0.76	U					0.79	U		0.76	U	
1,3-DICHLOROBENZENE		2	U					2.1	U		2	U	
1,4-DICHLOROBENZENE		2	U					2.1	U		1.7	J	P
1,4-DIOXANE		6.1	U					6.4	U		6.1	U	
1-ETHYL-4-METHYL BENZENE		1.4	J	P				2.4			1.5	J	P
2-BUTANONE		3.2	J	P				7.7			6.2		
2-HEXANONE		7	U					7.3	U		7	U	
3-CHLOROPROPENE		2.7	U					2.8	U		2.7	U	
4-METHYL-2-PENTANONE		7	U					7.3	U		7	U	
ACETONE		17.9	J	G				33.8			27.4		
BENZENE		0.55	U					0.57	U		0.55		
BROMODICHLOROMETHANE		2.3	U					2.4	U		2.3	U	
BROMOFORM		8.8	U					9.2	U		8.8	U	
BROMOMETHANE		1.3	U					1.4	U		1.3	U	
CARBON DISULFIDE		1.1	U					1.1	U		0.64	J	P
CARBON TETRACHLORIDE		1.1	U					1.1	U		1.1	U	
CHLOROBENZENE		1.6	U					1.6	U		1.6	U	
CHLORODIBROMOMETHANE		2.9	UJ	C				3	UJ	C	2.9	UJ	C
CHLORODIFLUOROMETHANE		1.2	U					1.3	U		1.2	U	

PROJ_NO: 07792	NSAMPLE	VP-2_5_20170302			VP-4_10_20170302			VP-4_20_20170302			VP-4_30_20170302		
SDG: 10381035	LAB_ID	10381035005			10381035010			10381035011			10381035012		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		11.3			1.9	U		1.9	U		2.1	U	
1,1,2,2-TETRACHLOROETHANE		2.4	U		2.4	U		2.4	U		2.7	U	
1,1,2-TRICHLOROETHANE		0.96	U		0.96	U		0.96	U		1.1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.72	J	P	1.4	J	P	2.4	J	P	4.6		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	UJ	C	5.6	UJ	C	5.6	UJ	C	6.1	UJ	C
1,1-DICHLOROETHANE		1.4	U		1.4	U		1.4	U		1.6	U	
1,1-DICHLOROETHENE		1.4	U		1.4	U		1.4	U		1.6	U	
1,2,4-TRICHLOROBENZENE		6.6	U		6.6	U		6.6	U		7.2	U	
1,2,4-TRIMETHYLBENZENE		1.3	J	P	1.3	J	P	1.5	J	P	1.6	J	P
1,2-DIBROMO-3-CHLOROPROPANE		8.6	U		8.6	U		8.6	U		9.4	U	
1,2-DIBROMOETHANE		2.7	U		2.7	U		2.7	U		3	U	
1,2-DICHLOROBENZENE		2.1	U		2.1	U		2.1	U		2.3	U	
1,2-DICHLOROETHANE		0.72	U		0.72	U		0.72	U		0.79	U	
1,2-DICHLOROPROPANE		1.6	U		1.6	U		1.6	U		1.8	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U		2.5	U		2.5	U		2.7	U	
1,3,5-TRIMETHYLBENZENE		1.3	J	P	1.7	U		1.3	J	P	1.8	J	P
1,3-BUTADIENE		0.79	U		0.79	U		0.79	U		0.86	U	
1,3-DICHLOROBENZENE		2.1	U		2.1	U		2.1	U		2.3	U	
1,4-DICHLOROBENZENE		2.1	U		2.1	U		2.1	U		2.3	U	
1,4-DIOXANE		6.4	U		6.4	U		6.4	U		7	U	
1-ETHYL-4-METHYL BENZENE		1.5	J	P	1.7	J	P	1.5	J	P	1.7	J	P
2-BUTANONE		3.2	J	P	5.2	U		5.2	U		5.8	U	
2-HEXANONE		7.3	U		7.3	U		7.3	U		8	U	
3-CHLOROPROPENE		2.8	U		2.8	U		2.8	U		3.1	U	
4-METHYL-2-PENTANONE		7.3	U		7.3	U		7.3	U		8	U	
ACETONE		18.2			24.1			14.5			10.9		
BENZENE		0.57	U		0.57	U		0.57	U		0.62	U	
BROMODICHLOROMETHANE		2.4	U		2.4	U		2.4	U		2.6	U	
BROMOFORM		9.2	U		9.2	U		9.2	U		10.1	U	
BROMOMETHANE		1.4	U		1.4	U		1.4	U		1.5	U	
CARBON DISULFIDE		1.1	U		1.1	U		0.95	J	P	1.2	U	
CARBON TETRACHLORIDE		1.1	U		1.1	U		1.1	U		1.2	U	
CHLOROBENZENE		1.6	U		1.6	U		1.6	U		1.8	U	
CHLORODIBROMOMETHANE		3	UJ	C	3	UJ	C	3	UJ	C	3.3	UJ	C
CHLORODIFLUOROMETHANE		1.3	U		1.5			1.3	U		1.4	U	

PROJ_NO: 07792	NSAMPLE	VP-4_5_20170302		
SDG: 10381035	LAB_ID	10381035009		
FRACTION: OV	SAMP_DATE	3/2/2017		
MEDIA: AIR	QC_TYPE	NM		
	UNITS	UG/M3		
	PCT_SOLIDS			
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.9	U	
1,1,2,2-TETRACHLOROETHANE		2.4	U	
1,1,2-TRICHLOROETHANE		0.96	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.9	J	P
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	UJ	C
1,1-DICHLOROETHANE		1.4	U	
1,1-DICHLOROETHENE		1.4	U	
1,2,4-TRICHLOROBENZENE		6.6	U	
1,2,4-TRIMETHYLBENZENE		1.4	J	P
1,2-DIBROMO-3-CHLOROPROPANE		8.6	U	
1,2-DIBROMOETHANE		2.7	U	
1,2-DICHLOROBENZENE		2.1	U	
1,2-DICHLOROETHANE		0.72	U	
1,2-DICHLOROPROPANE		1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U	
1,3,5-TRIMETHYLBENZENE		1.3	J	P
1,3-BUTADIENE		0.79	U	
1,3-DICHLOROBENZENE		2.1	U	
1,4-DICHLOROBENZENE		2.1	U	
1,4-DIOXANE		6.4	U	
1-ETHYL-4-METHYL BENZENE		1.8	U	
2-BUTANONE		5.2	U	
2-HEXANONE		7.3	U	
3-CHLOROPROPENE		2.8	U	
4-METHYL-2-PENTANONE		7.3	U	
ACETONE		10.2		
BENZENE		0.57	U	
BROMODICHLOROMETHANE		2.4	U	
BROMOFORM		9.2	U	
BROMOMETHANE		1.4	U	
CARBON DISULFIDE		1.2		
CARBON TETRACHLORIDE		1.1	U	
CHLOROBENZENE		1.6	U	
CHLORODIBROMOMETHANE		3	UJ	C
CHLORODIFLUOROMETHANE		1.3	U	

PROJ_NO: 07792	NSAMPLE	VP-1_10_2017032			VP-1_20_20170302			VP-1_20_20170302-DL			VP-1_30_20170302		
SDG: 10381035	LAB_ID	10381035002			10381035003			10381035003			10381035004		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.91	U		0.91	U					0.94	U	
CHLOROFORM		0.8	J	P	0.51	J	P				0.87	U	
CHLOROMETHANE		0.71	U		0.71	U					0.74	U	
CIS-1,2-DICHLOROETHENE		1.4	U		1.4	U					1.4	U	
CIS-1,3-DICHLOROPROPENE		1.5	U		1.5	U					1.6	U	
CYCLOHEXANE		1.2	U		0.99	J	P				1.2	U	
DICHLORODIFLUOROMETHANE		4.2	U		1.3	J	P				1.2	J	P
ETHYLBENZENE		1.5	U		0.81	J	P				1.5	U	
HEXACHLOROBUTADIENE		3.6	U		3.6	U					3.8	U	
HEXANE		1.2	U		62.8						17.1	J	G
ISOPROPANOL		4.2	U		16.9						2.9	J	P
ISOPROPYLBENZENE		4.2	U		4.2	U					4.4	U	
M+P-XYLENES		1.6	J	P	3.8						2.3	J	P
METHYL ACETATE		2.6	U		2.6	U					2.7	U	
METHYL CYCLOHEXANE		1.4	U		1.4	U					1.4	U	
METHYL TERT-BUTYL ETHER		6.2	U		6.2	U					6.4	U	
METHYLENE CHLORIDE		5.9	U					114	J	A	170	J	AG
O-XYLENE		1.5	U		1.2	J	P				1.5	U	
PENTAFLUOROETHYL CHLORIDE		5.4	U		5.4	U					5.6	U	
STYRENE		1.5	U		1.3	J	P				1.2	J	P
TETRACHLOROETHENE		1.2	U		4						22.6		
TOLUENE		0.88	J	P	8.4						14.2		
TRANS-1,2-DICHLOROETHENE		1.4	U		1.4	U					1.4	U	
TRANS-1,3-DICHLOROPROPENE		1.5	U		1.5	U					1.6	U	
TRICHLOROETHENE		4			26						176		
TRICHLOROFLUOROMETHANE		1.2	J	P	2.8						2.4		
VINYL CHLORIDE		0.44	U		0.44	U					0.46	U	

PROJ_NO: 07792	NSAMPLE	VP-1_30_20170302DUP			VP-1_5_20170302			VP-106_11_20170302			VP-106_19.5_20170302		
SDG: 10381035	LAB_ID	10381035022			10381035001			10381035014			10381035015		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF	VP-1_30_20170302											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.94	U		0.91	U		0.91	U		0.87	U	
CHLOROFORM		0.87	U		0.83	U		1.1			4.2		
CHLOROMETHANE		0.74	U		1.2			0.71	U		0.68	U	
CIS-1,2-DICHLOROETHENE		1.4	U		1.4	U		1.4	U		1.3	U	
CIS-1,3-DICHLOROPROPENE		1.6	U		1.5	U		1.5	U		1.5	U	
CYCLOHEXANE		1.2	U		0.87	J	P	1.2	U		1.1	U	
DICHLORODIFLUOROMETHANE		4.4	U		1.7	J	P	4.2	U		4	U	
ETHYLBENZENE		1.5	U		1.5	U		1.5	U		1.4	U	
HEXACHLOROBUTADIENE		3.8	U		3.6	U		3.6	U		3.5	U	
HEXANE		1.3	UJ	G	79.8			1	J	P	5.7		
ISOPROPANOL		2.6	J	P	4.2	U		4.2	U		5.1		
ISOPROPYLBENZENE		4.4	U		4.2	U		4.2	U		4	U	
M+P-XYLENES		2	J	P	2.3	J	P	3	U		1.8	J	P
METHYL ACETATE		2.7	U		2.6	U		2.6	U		2.5	U	
METHYL CYCLOHEXANE		1.4	U		1.4	U		1.4	U		1.3	U	
METHYL TERT-BUTYL ETHER		6.4	U		6.2	U		6.2	U		5.9	U	
METHYLENE CHLORIDE		3.2	J	AGP	421	J	A	5.9	U	A	37.6	J	A
O-XYLENE		1.5	U		1.5	U		1.5	U		1.4	U	
PENTAFLUOROETHYL CHLORIDE		5.6	U		5.4	U		5.4	U		5.2	U	
STYRENE		1.1	J	P	1.2	J	P	1.5	U		1.9		
TETRACHLOROETHENE		25.4			1.2	U		8.4			19.9		
TOLUENE		13.8			4.4			1.3	U		5.1		
TRANS-1,2-DICHLOROETHENE		1.4	U		1.4	U		1.4	U		1.3	U	
TRANS-1,3-DICHLOROPROPENE		1.6	U		1.5	U		1.5	U		1.5	U	
TRICHLOROETHENE		193			3.9			1.5			8		
TRICHLOROFLUOROMETHANE		2.5			2.1			1.3	J	P	1.7	J	P
VINYL CHLORIDE		0.46	U		0.44	U		0.44	U		0.42	U	

PROJ_NO: 07792	NSAMPLE	VP-106_28_20170302			VP-106_28_20170302-DL			VP-106_5_20170302			VP-106_56_20170302		
SDG: 10381035	LAB_ID	10381035016			10381035016			10381035013			10381035017		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.94	U					1.1	U		0.91	U	
CHLOROFORM		6.4						1.2			2.5		
CHLOROMETHANE		0.74	U					0.84	U		0.71	U	
CIS-1,2-DICHLOROETHENE		1.4	U					1.6	U		65.1		
CIS-1,3-DICHLOROPROPENE		1.6	U					1.8	U		1.5	U	
CYCLOHEXANE		1.4						1.4	U		1.2	U	
DICHLORODIFLUOROMETHANE		4.4	U					5.1	U		4.2	U	
ETHYLBENZENE		0.84	J	P				1.8	U		1.5	U	
HEXACHLOROBUTADIENE		3.8	U					4.4	U		3.6	U	
HEXANE		33.8			17.7			1.3	J	P	4.3		
ISOPROPANOL		2.4	J	P				5	U		4.2	U	
ISOPROPYLBENZENE		4.4	U					5	U		4.2	U	
M+P-XYLENES		4.7						1.9	J	P	2.2	J	P
METHYL ACETATE		2.7	U					3.1	U		2.6	U	
METHYL CYCLOHEXANE		1.4	U					1.6	U		1.4	U	
METHYL TERT-BUTYL ETHER		6.4	U					7.4	U		6.2	U	
METHYLENE CHLORIDE					122	J	A	7	J	AP	33.8	J	A
O-XYLENE		1.7						1.8	U		1.5	U	
PENTAFLUOROETHYL CHLORIDE		5.6	U					6.5	U		5.4	U	
STYRENE		1.2	J	P				1.7	U		1	J	P
TETRACHLOROETHENE		26.7						3.9			506		
TOLUENE		11.1						1.5	U		5.5		
TRANS-1,2-DICHLOROETHENE		1.4	U					1.6	U		3.1		
TRANS-1,3-DICHLOROPROPENE		1.6	U					1.8	U		1.5	U	
TRICHLOROETHENE		6.6						1.1	U		1200		
TRICHLOROFLUOROMETHANE		2.2						1.2	J	P	10.9		
VINYL CHLORIDE		0.46	U					0.52	U		0.44	U	

PROJ_NO: 07792	NSAMPLE	VP-106_56_20170302-DL			VP-106_72_20170302			VP-106_72_20170302-DL			VP-106_72_20170302DUP		
SDG: 10381035	LAB_ID	10381035017			10381035018			10381035018			10381035020		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF										VP-106_72_20170302		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					0.91	U					0.94	U	
CHLOROFORM					3.2						3.5		
CHLOROMETHANE					0.71	U					0.74	U	
CIS-1,2-DICHLOROETHENE					69.1						72.3		
CIS-1,3-DICHLOROPROPENE					1.5	U					1.6	U	
CYCLOHEXANE					0.85	J	P				1.2	U	
DICHLORODIFLUOROMETHANE					4.2	U					4.4	U	
ETHYLBENZENE					1.5	U					1.5	U	
HEXACHLOROBUTADIENE					3.6	U					3.8	U	
HEXANE					9.8	J	G				0.98	J	GP
ISOPROPANOL					10						2.9	J	P
ISOPROPYLBENZENE					4.2	U					4.4	U	
M+P-XYLENES					2.7	J	P				2.1	J	P
METHYL ACETATE					2.6	U					2.7	U	
METHYL CYCLOHEXANE					1.4	U					1.4	U	
METHYL TERT-BUTYL ETHER					6.2	U					6.4	U	
METHYLENE CHLORIDE					71.4	J	AG				6.2	UJ	G
O-XYLENE					1.5	U					1.5	U	
PENTAFLUOROETHYL CHLORIDE					5.4	U					5.6	U	
STYRENE					1.3	J	P				1.1	J	P
TETRACHLOROETHENE		305						617			552	J	L
TOLUENE					27.5						22.5		
TRANS-1,2-DICHLOROETHENE					3.3						3.3		
TRANS-1,3-DICHLOROPROPENE					1.5	U					1.6	U	
TRICHLOROETHENE		1020						2230	J	G	1330	J	GL
TRICHLOROFLUOROMETHANE					9.6						9.6		
VINYL CHLORIDE					0.44	U					0.46	U	

PROJ_NO: 07792	NSAMPLE	VP-106_84_20170302			VP-106_84_20170302-DL			VP-2_10_20170302			VP-2_10_20170302-DL		
SDG: 10381035	LAB_ID	10381035019			10381035019			10381035006			10381035006		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.72	U					0.94	U				
CHLOROFORM		3.8						1.7					
CHLOROMETHANE		0.56	U					0.74	U				
CIS-1,2-DICHLOROETHENE		55.6						1380			3180		
CIS-1,3-DICHLOROPROPENE		1.2	U					1.6	U				
CYCLOHEXANE		0.94	U					1.2	U				
DICHLORODIFLUOROMETHANE		3.4	U					4.4	U				
ETHYLBENZENE		1.2	U					1.5	U				
HEXACHLOROBUTADIENE		2.9	U					3.8	U				
HEXANE		1.5						1.2	J	P			
ISOPROPANOL		5.1						4.4	U				
ISOPROPYLBENZENE		3.4	U					4.4	U				
M+P-XYLENES		2.7						3.1	U				
METHYL ACETATE		2.1	U					2.7	U				
METHYL CYCLOHEXANE		1.1	U					1.4	U				
METHYL TERT-BUTYL ETHER		4.9	U					6.4	U				
METHYLENE CHLORIDE		4.7	U					8.5	J	A			
O-XYLENE		0.66	J	P				1.5	U				
PENTAFLUOROETHYL CHLORIDE		4.3	U					5.6	U				
STYRENE		1.2	U					1.5	U				
TETRACHLOROETHENE		395			487			1080			1930		
TOLUENE		30.4						0.75	J	P			
TRANS-1,2-DICHLOROETHENE		2.5						4.7					
TRANS-1,3-DICHLOROPROPENE		1.2	U					1.6	U				
TRICHLOROETHENE		1040			1920			269					
TRICHLOROFLUOROMETHANE		8.3						1.6	J	P			
VINYL CHLORIDE		0.35	U					7.9					

PROJ_NO: 07792	NSAMPLE	VP-2_10_20170302DUP			VP-2_10_20170302DUP-DL			VP-2_20_20170302			VP-2_30_20170302		
SDG: 10381035	LAB_ID	10381035021			10381035021			10381035007			10381035008		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF	VP-2_10_20170302			VP-2_10_20170302								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.91	U					0.94	U		0.91	U	
CHLOROFORM		1.7						1.1			1		
CHLOROMETHANE		0.71	U					0.74	U		0.71	U	
CIS-1,2-DICHLOROETHENE		1420			2770			105			124		
CIS-1,3-DICHLOROPROPENE		1.5	U					1.6	U		1.5	U	
CYCLOHEXANE		1.2	U					1.2	U		1.2	U	
DICHLORODIFLUOROMETHANE		4.2	U					4.4	U		4.2	U	
ETHYLBENZENE		1.5	U					1.5	U		1.5	U	
HEXACHLOROBUTADIENE		3.6	U					3.8	U		3.6	U	
HEXANE		1.2						1.3	U		1.2	U	
ISOPROPANOL		4.2	U					5.7			5.2		
ISOPROPYLBENZENE		4.2	U					4.4	U		4.2	U	
M+P-XYLENES		1.6	J	P				2.1	J	P	2.8	J	P
METHYL ACETATE		2.6	U					2.7	U		2.6	U	
METHYL CYCLOHEXANE		1.4	U					1.4	U		1.4	U	
METHYL TERT-BUTYL ETHER		6.2	U					6.4	U		6.2	U	
METHYLENE CHLORIDE		6.2	J	A				6.2	U		4.1	J	AP
O-XYLENE		1.5	U					1.5	U		0.94	J	P
PENTAFLUOROETHYL CHLORIDE		5.4	U					5.6	U		5.4	U	
STYRENE		1	J	P				1.1	J	P	1.1	J	P
TETRACHLOROETHENE		1090			1780			179			391		
TOLUENE		1.3						2.1			22.7		
TRANS-1,2-DICHLOROETHENE		4.8						1.4	U		1.2	J	P
TRANS-1,3-DICHLOROPROPENE		1.5	U					1.6	U		1.5	U	
TRICHLOROETHENE		271						151			288		
TRICHLOROFLUOROMETHANE		1.7	J	P				1.5	J	P	1.7	J	P
VINYL CHLORIDE		8.2						0.46	U		0.44	U	

PROJ_NO: 07792	NSAMPLE	VP-2_5_20170302			VP-4_10_20170302			VP-4_20_20170302			VP-4_30_20170302		
SDG: 10381035	LAB_ID	10381035005			10381035010			10381035011			10381035012		
FRACTION: OV	SAMP_DATE	3/2/2017			3/2/2017			3/2/2017			3/2/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.94	U		0.94	U		0.94	U		1	U	
CHLOROFORM		1.7			1.6			0.65	J	P	0.82	J	P
CHLOROMETHANE		0.74	U		0.74	U		0.74	U		0.81	U	
CIS-1,2-DICHLOROETHENE		2.5			1.4	U		1.4	U		1.8		
CIS-1,3-DICHLOROPROPENE		1.6	U		1.6	U		1.6	U		1.8	U	
CYCLOHEXANE		1.2	U		1.2	U		1.2	U		1.3	U	
DICHLORODIFLUOROMETHANE		4.4	U		4.4	U		4.4	U		4.8	U	
ETHYLBENZENE		1.5	U		1.5	U		1.5	U		1.7	U	
HEXACHLOROBUTADIENE		3.8	U		3.8	U		3.8	U		4.2	U	
HEXANE		1	J	P	2.6			1.6			1.1	J	P
ISOPROPANOL		4.4	U		4.4	U		4.2	J	P	4.2	J	P
ISOPROPYLBENZENE		4.4	U		4.4	U		4.4	U		4.8	U	
M+P-XYLENES		3.1	U		3.1	U		2.2	J	P	2.5	J	P
METHYL ACETATE		2.7	U		2.7	U		2.7	U		3	U	
METHYL CYCLOHEXANE		1.4	U		1.4	U		1.4	U		1.6	U	
METHYL TERT-BUTYL ETHER		6.4	U		6.4	U		6.4	U		7	U	
METHYLENE CHLORIDE		6.2	U		20.1	J	A	10.8	J	A	4	J	AP
O-XYLENE		1.5	U		1.5	U		1.5	U		1.7	U	
PENTAFLUOROETHYL CHLORIDE		5.6	U		5.6	U		5.6	U		6.2	U	
STYRENE		1.5	U		1.5	U		1.1	J	P	1.2	J	P
TETRACHLOROETHENE		339			5.6			6.3			71.9		
TOLUENE		0.77	J	P	1.3	U		13.4			18.9		
TRANS-1,2-DICHLOROETHENE		1.4	U		1.4	U		1.4	U		1.6	U	
TRANS-1,3-DICHLOROPROPENE		1.6	U		0.83	J	P	1.6	U		1.8	U	
TRICHLOROETHENE		21.7			5.4			6			59.3		
TRICHLOROFLUOROMETHANE		1.5	J	P	1.3	J	P	1.4	J	P	1.4	J	P
VINYL CHLORIDE		0.46	U		0.46	U		0.46	U		0.5	U	

PROJ_NO: 07792	NSAMPLE	VP-4_5_20170302		
SDG: 10381035	LAB_ID	10381035009		
FRACTION: OV	SAMP_DATE	3/2/2017		
MEDIA: AIR	QC_TYPE	NM		
	UNITS	UG/M3		
	PCT_SOLIDS			
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
CHLOROETHANE		0.94	U	
CHLOROFORM		0.57	J	P
CHLOROMETHANE		0.74	U	
CIS-1,2-DICHLOROETHENE		1.4	U	
CIS-1,3-DICHLOROPROPENE		1.6	U	
CYCLOHEXANE		1.2	U	
DICHLORODIFLUOROMETHANE		4.4	U	
ETHYLBENZENE		1.5	U	
HEXACHLOROBUTADIENE		3.8	U	
HEXANE		2.7		
ISOPROPANOL		4.4	U	
ISOPROPYLBENZENE		4.4	U	
M+P-XYLENES		1.7	J	P
METHYL ACETATE		2.7	U	
METHYL CYCLOHEXANE		1.4	U	
METHYL TERT-BUTYL ETHER		6.4	U	
METHYLENE CHLORIDE		34.2	J	A
O-XYLENE		1.5	U	
PENTAFLUOROETHYL CHLORIDE		5.6	U	
STYRENE		1.1	J	P
TETRACHLOROETHENE		8		
TOLUENE		2.4		
TRANS-1,2-DICHLOROETHENE		1.4	U	
TRANS-1,3-DICHLOROPROPENE		1.6	U	
TRICHLOROETHENE		1.9		
TRICHLOROFLUOROMETHANE		1.3	J	P
VINYL CHLORIDE		0.46	U	

Attachment 2

Results as Reported by the Laboratory

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_5_20170302 **Lab ID: 10381035001** Collected: 03/02/17 12:35 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**52.8**	ug/m3	4.1	1.4	1.68		03/21/17 02:17	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 02:17	107-05-1	
Benzene	**1.2**	ug/m3	0.55	0.20	1.68		03/21/17 02:17	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 02:17	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 02:17	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 02:17	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 02:17	106-99-0	
2-Butanone (MEK)	**2.6J**	ug/m3	5.0	0.38	1.68		03/21/17 02:17	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/21/17 02:17	75-15-0	
Carbon tetrachloride	**0.72J**	ug/m3	1.1	0.32	1.68		03/21/17 02:17	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 02:17	108-90-7	
Chlorodifluoromethane	**5.4**	ug/m3	1.2	0.46	1.68		03/21/17 02:17	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 02:17	75-00-3	
Chloroform	**<0.32**	ug/m3	0.83	0.32	1.68		03/21/17 02:17	67-66-3	
Chloromethane	**1.2**	ug/m3	0.71	0.18	1.68		03/21/17 02:17	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 02:17	76-15-3	
Cyclohexane	**0.87J**	ug/m3	1.2	0.53	1.68		03/21/17 02:17	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 02:17	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 02:17	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 02:17	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 02:17	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 02:17	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/21/17 02:17	106-46-7	
Dichlorodifluoromethane	**1.7J**	ug/m3	4.2	0.81	1.68		03/21/17 02:17	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 02:17	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 02:17	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/21/17 02:17	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 02:17	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/21/17 02:17	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 02:17	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 02:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 02:17	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 02:17	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 02:17	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 02:17	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 02:17	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.7	0.32	1.68		03/21/17 02:17	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 02:17	87-68-3	
n-Hexane	**79.8**	ug/m3	1.2	0.60	1.68		03/21/17 02:17	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 02:17	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 02:17	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 02:17	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 02:17	108-87-2	
Methylene Chloride	**421**	ug/m3	5.9	0.91	1.68		03/21/17 02:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 02:17	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 02:17	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_5_20170302 **Lab ID: 10381035001** Collected: 03/02/17 12:35 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.40**	ug/m3	4.2	0.40	1.68		03/21/17 02:17	67-63-0	
Styrene	**1.2J**	ug/m3	1.5	0.32	1.68		03/21/17 02:17	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 02:17	79-34-5	
Tetrachloroethene	**<0.47**	ug/m3	1.2	0.47	1.68		03/21/17 02:17	127-18-4	
Toluene	**4.4**	ug/m3	1.3	0.26	1.68		03/21/17 02:17	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 02:17	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/21/17 02:17	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 02:17	79-00-5	
Trichloroethene	**3.9**	ug/m3	0.92	0.46	1.68		03/21/17 02:17	79-01-6	
Trichlorofluoromethane	**2.1**	ug/m3	1.9	0.22	1.68		03/21/17 02:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.78J**	ug/m3	2.7	0.51	1.68		03/21/17 02:17	76-13-1	
1,2,4-Trimethylbenzene	**1.7**	ug/m3	1.7	0.21	1.68		03/21/17 02:17	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.31	1.68		03/21/17 02:17	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 02:17	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.0	1.3	1.68		03/21/17 02:17	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/21/17 02:17	95-47-6	

Sample: VP-1_10_2017032 **Lab ID: 10381035002** Collected: 03/02/17 12:35 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/21/17 03:21	75-71-8	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 03:21	74-87-3	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 03:21	76-14-2	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 03:21	75-01-4	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 03:21	74-83-9	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 03:21	75-00-3	
Trichlorofluoromethane	**1.2J**	ug/m3	1.9	0.22	1.68		03/21/17 03:21	75-69-4	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/21/17 03:21	75-35-4	
1,1,2-Trichlorotrifluoroethane	**<0.51**	ug/m3	2.7	0.51	1.68		03/21/17 03:21	76-13-1	
Methylene Chloride	**<0.91**	ug/m3	5.9	0.91	1.68		03/21/17 03:21	75-09-2	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 03:21	75-34-3	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 03:21	156-59-2	
Chloroform	**0.80J**	ug/m3	0.83	0.32	1.68		03/21/17 03:21	67-66-3	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/21/17 03:21	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 03:21	79-00-5	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 03:21	107-06-2	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/21/17 03:21	71-43-2	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 03:21	56-23-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 03:21	78-87-5	
Trichloroethene	**4.0**	ug/m3	0.92	0.46	1.68		03/21/17 03:21	79-01-6	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 03:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 03:21	10061-02-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_10_2017032 **Lab ID: 10381035002** Collected: 03/02/17 12:35 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Toluene	**0.88J**	ug/m3	1.3	0.26	1.68		03/21/17 03:21	108-88-3	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 03:21	106-93-4	
Tetrachloroethene	**<0.47**	ug/m3	1.2	0.47	1.68		03/21/17 03:21	127-18-4	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 03:21	108-90-7	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 03:21	100-41-4	
m&p-Xylene	**1.6J**	ug/m3	3.0	1.3	1.68		03/21/17 03:21	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/21/17 03:21	95-47-6	
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/21/17 03:21	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 03:21	79-34-5	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/21/17 03:21	108-67-8	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.21	1.68		03/21/17 03:21	95-63-6	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 03:21	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/21/17 03:21	106-46-7	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 03:21	95-50-1	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 03:21	120-82-1	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 03:21	87-68-3	
Acetone	**6.8**	ug/m3	4.1	1.4	1.68		03/21/17 03:21	67-64-1	
2-Butanone (MEK)	**<0.38**	ug/m3	5.0	0.38	1.68		03/21/17 03:21	78-93-3	
n-Hexane	**<0.60**	ug/m3	1.2	0.60	1.68		03/21/17 03:21	110-54-3	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 03:21	1634-04-4	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 03:21	124-48-1	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 03:21	106-99-0	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/21/17 03:21	75-15-0	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/21/17 03:21	110-82-7	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 03:21	108-10-1	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 03:21	591-78-6	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 03:21	75-25-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/21/17 03:21	156-60-5	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 03:21	75-27-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.7	0.32	1.68		03/21/17 03:21	622-96-8	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 03:21	98-82-8	
2-Propanol	**<0.40**	ug/m3	4.2	0.40	1.68		03/21/17 03:21	67-63-0	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 03:21	123-91-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 03:21	107-05-1	
Chlorodifluoromethane	**1.2**	ug/m3	1.2	0.46	1.68		03/21/17 03:21	75-45-6	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 03:21	108-87-2	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 03:21	96-12-8	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 03:21	306-83-2	CL
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 03:21	76-15-3	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 03:21	79-20-9	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_20_20170302 **Lab ID: 10381035003** Collected: 03/02/17 12:25 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**82.5**	ug/m3	4.1	1.4	1.68		03/21/17 14:40	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 14:40	107-05-1	
Benzene	**1.2**	ug/m3	0.55	0.20	1.68		03/21/17 14:40	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 14:40	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 14:40	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 14:40	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 14:40	106-99-0	
2-Butanone (MEK)	**8.4**	ug/m3	5.0	0.38	1.68		03/21/17 14:40	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/21/17 14:40	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 14:40	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 14:40	108-90-7	
Chlorodifluoromethane	**4.4**	ug/m3	1.2	0.46	1.68		03/21/17 14:40	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 14:40	75-00-3	
Chloroform	**0.51J**	ug/m3	0.83	0.32	1.68		03/21/17 14:40	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 14:40	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 14:40	76-15-3	
Cyclohexane	**0.99J**	ug/m3	1.2	0.53	1.68		03/21/17 14:40	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 14:40	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 14:40	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 14:40	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 14:40	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 14:40	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/21/17 14:40	106-46-7	
Dichlorodifluoromethane	**1.3J**	ug/m3	4.2	0.81	1.68		03/21/17 14:40	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 14:40	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 14:40	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/21/17 14:40	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 14:40	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/21/17 14:40	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 14:40	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 14:40	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 14:40	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 14:40	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 14:40	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 14:40	123-91-1	
Ethylbenzene	**0.81J**	ug/m3	1.5	0.71	1.68		03/21/17 14:40	100-41-4	
4-Ethyltoluene	**1.8**	ug/m3	1.7	0.32	1.68		03/21/17 14:40	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 14:40	87-68-3	
n-Hexane	**62.8**	ug/m3	1.2	0.60	1.68		03/21/17 14:40	110-54-3	
n-Hexane	**11.8**	ug/m3	1.6	0.80	2.25		03/23/17 02:43	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 14:40	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 14:40	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 14:40	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 14:40	108-87-2	
Methylene Chloride	**114**	ug/m3	7.9	1.2	2.25		03/23/17 02:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 14:40	108-10-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_20_20170302 **Lab ID: 10381035003** Collected: 03/02/17 12:25 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 14:40	1634-04-4	
2-Propanol	**16.9**	ug/m3	4.2	0.40	1.68		03/21/17 14:40	67-63-0	
Styrene	**1.3J**	ug/m3	1.5	0.32	1.68		03/21/17 14:40	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 14:40	79-34-5	
Tetrachloroethene	**4.0**	ug/m3	1.2	0.47	1.68		03/21/17 14:40	127-18-4	
Toluene	**8.4**	ug/m3	1.3	0.26	1.68		03/21/17 14:40	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 14:40	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/21/17 14:40	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 14:40	79-00-5	
Trichloroethene	**26.0**	ug/m3	0.92	0.46	1.68		03/21/17 14:40	79-01-6	
Trichlorofluoromethane	**2.8**	ug/m3	1.9	0.22	1.68		03/21/17 14:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.86J**	ug/m3	2.7	0.51	1.68		03/21/17 14:40	76-13-1	
1,2,4-Trimethylbenzene	**2.6**	ug/m3	1.7	0.21	1.68		03/21/17 14:40	95-63-6	
1,3,5-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.31	1.68		03/21/17 14:40	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 14:40	75-01-4	
m&p-Xylene	**3.8**	ug/m3	3.0	1.3	1.68		03/21/17 14:40	179601-23-1	
o-Xylene	**1.2J**	ug/m3	1.5	0.59	1.68		03/21/17 14:40	95-47-6	

Sample: VP-1_30_20170302 **Lab ID: 10381035004** Collected: 03/02/17 12:16 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**18.4**	ug/m3	4.2	1.5	1.75		03/21/17 15:13	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 15:13	107-05-1	
Benzene	**0.52J**	ug/m3	0.57	0.21	1.75		03/21/17 15:13	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 15:13	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 15:13	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 15:13	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 15:13	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 15:13	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 15:13	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 15:13	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 15:13	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 15:13	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 15:13	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/21/17 15:13	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 15:13	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 15:13	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 15:13	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 15:13	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 15:13	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 15:13	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 15:13	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_30_20170302 **Lab ID: 10381035004** Collected: 03/02/17 12:16 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 15:13	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 15:13	106-46-7	
Dichlorodifluoromethane	**1.2J**	ug/m3	4.4	0.84	1.75		03/21/17 15:13	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 15:13	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 15:13	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 15:13	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/21/17 15:13	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 15:13	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 15:13	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 15:13	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 15:13	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 15:13	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 15:13	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 15:13	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 15:13	100-41-4	
4-Ethyltoluene	**1.8**	ug/m3	1.8	0.33	1.75		03/21/17 15:13	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 15:13	87-68-3	
n-Hexane	**17.1**	ug/m3	1.3	0.62	1.75		03/21/17 15:13	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 15:13	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 15:13	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 15:13	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 15:13	108-87-2	
Methylene Chloride	**170**	ug/m3	6.2	0.95	1.75		03/21/17 15:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 15:13	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 15:13	1634-04-4	
2-Propanol	**2.9J**	ug/m3	4.4	0.42	1.75		03/21/17 15:13	67-63-0	
Styrene	**1.2J**	ug/m3	1.5	0.34	1.75		03/21/17 15:13	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 15:13	79-34-5	
Tetrachloroethene	**22.6**	ug/m3	1.2	0.49	1.75		03/21/17 15:13	127-18-4	
Toluene	**14.2**	ug/m3	1.3	0.27	1.75		03/21/17 15:13	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 15:13	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/21/17 15:13	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 15:13	79-00-5	
Trichloroethene	**176**	ug/m3	0.96	0.48	1.75		03/21/17 15:13	79-01-6	
Trichlorofluoromethane	**2.4**	ug/m3	2.0	0.23	1.75		03/21/17 15:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.3J**	ug/m3	2.8	0.53	1.75		03/21/17 15:13	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.22	1.75		03/21/17 15:13	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/21/17 15:13	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 15:13	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.1	1.4	1.75		03/21/17 15:13	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 15:13	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_5_20170302 **Lab ID: 10381035005** Collected: 03/02/17 12:00 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**18.2**	ug/m3	4.2	1.5	1.75		03/21/17 15:44	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 15:44	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 15:44	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 15:44	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 15:44	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 15:44	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 15:44	106-99-0	
2-Butanone (MEK)	**3.2J**	ug/m3	5.2	0.40	1.75		03/21/17 15:44	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 15:44	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 15:44	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 15:44	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 15:44	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 15:44	75-00-3	
Chloroform	**1.7**	ug/m3	0.87	0.33	1.75		03/21/17 15:44	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 15:44	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 15:44	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 15:44	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 15:44	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 15:44	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 15:44	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 15:44	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 15:44	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 15:44	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 15:44	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 15:44	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 15:44	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 15:44	75-35-4	
cis-1,2-Dichloroethene	**2.5**	ug/m3	1.4	0.43	1.75		03/21/17 15:44	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 15:44	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 15:44	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 15:44	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 15:44	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 15:44	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 15:44	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 15:44	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 15:44	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.8	0.33	1.75		03/21/17 15:44	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 15:44	87-68-3	
n-Hexane	**1.0J**	ug/m3	1.3	0.62	1.75		03/21/17 15:44	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 15:44	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 15:44	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 15:44	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 15:44	108-87-2	
Methylene Chloride	**<0.95**	ug/m3	6.2	0.95	1.75		03/21/17 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 15:44	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 15:44	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_5_20170302 **Lab ID: 10381035005** Collected: 03/02/17 12:00 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/21/17 15:44	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/21/17 15:44	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 15:44	79-34-5	
Tetrachloroethene	**339**	ug/m3	1.2	0.49	1.75		03/21/17 15:44	127-18-4	
Toluene	**0.77J**	ug/m3	1.3	0.27	1.75		03/21/17 15:44	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 15:44	120-82-1	
1,1,1-Trichloroethane	**11.3**	ug/m3	1.9	0.43	1.75		03/21/17 15:44	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 15:44	79-00-5	
Trichloroethene	**21.7**	ug/m3	0.96	0.48	1.75		03/21/17 15:44	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.0	0.23	1.75		03/21/17 15:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.72J**	ug/m3	2.8	0.53	1.75		03/21/17 15:44	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.22	1.75		03/21/17 15:44	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/21/17 15:44	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 15:44	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/21/17 15:44	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 15:44	95-47-6	

Sample: VP-2_10_20170302 **Lab ID: 10381035006** Collected: 03/02/17 12:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**5.7**	ug/m3	4.2	1.5	1.75		03/21/17 16:16	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 16:16	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 16:16	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 16:16	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 16:16	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 16:16	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 16:16	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 16:16	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 16:16	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 16:16	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 16:16	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 16:16	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 16:16	75-00-3	
Chloroform	**1.7**	ug/m3	0.87	0.33	1.75		03/21/17 16:16	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 16:16	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 16:16	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 16:16	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 16:16	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 16:16	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 16:16	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 16:16	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 16:16	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_10_20170302 **Lab ID: 10381035006** Collected: 03/02/17 12:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 16:16	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 16:16	75-71-8	
1,1-Dichloroethane	**6.7**	ug/m3	1.4	0.27	1.75		03/21/17 16:16	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 16:16	107-06-2	
1,1-Dichloroethene	**13.5**	ug/m3	1.4	0.42	1.75		03/21/17 16:16	75-35-4	
cis-1,2-Dichloroethene	**1380**	ug/m3	1.4	0.43	1.75		03/21/17 16:16	156-59-2	
cis-1,2-Dichloroethene	**3180**	ug/m3	56.7	17.2	70		03/23/17 06:38	156-59-2	A3
trans-1,2-Dichloroethene	**4.7**	ug/m3	1.4	0.67	1.75		03/21/17 16:16	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 16:16	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 16:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 16:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 16:16	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 16:16	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 16:16	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 16:16	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/21/17 16:16	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 16:16	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.3	0.62	1.75		03/21/17 16:16	110-54-3	
2-Hexanone	**2.3J**	ug/m3	7.3	0.72	1.75		03/21/17 16:16	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 16:16	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 16:16	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 16:16	108-87-2	
Methylene Chloride	**8.5**	ug/m3	6.2	0.95	1.75		03/21/17 16:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 16:16	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 16:16	1634-04-4	
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/21/17 16:16	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/21/17 16:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 16:16	79-34-5	
Tetrachloroethene	**1080**	ug/m3	1.2	0.49	1.75		03/21/17 16:16	127-18-4	
Tetrachloroethene	**1930**	ug/m3	48.2	19.5	70		03/23/17 06:38	127-18-4	
Toluene	**0.75J**	ug/m3	1.3	0.27	1.75		03/21/17 16:16	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 16:16	120-82-1	
1,1,1-Trichloroethane	**7.2**	ug/m3	1.9	0.43	1.75		03/21/17 16:16	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 16:16	79-00-5	
Trichloroethene	**269**	ug/m3	0.96	0.48	1.75		03/21/17 16:16	79-01-6	
Trichlorofluoromethane	**1.6J**	ug/m3	2.0	0.23	1.75		03/21/17 16:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.4J**	ug/m3	2.8	0.53	1.75		03/21/17 16:16	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.22	1.75		03/21/17 16:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/21/17 16:16	108-67-8	
Vinyl chloride	**7.9**	ug/m3	0.46	0.34	1.75		03/21/17 16:16	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/21/17 16:16	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 16:16	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_20_20170302 **Lab ID: 10381035007** Collected: 03/02/17 12:05 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**33.8**	ug/m3	4.2	1.5	1.75		03/21/17 16:47	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 16:47	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 16:47	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 16:47	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 16:47	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 16:47	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 16:47	106-99-0	
2-Butanone (MEK)	**7.7**	ug/m3	5.2	0.40	1.75		03/21/17 16:47	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 16:47	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 16:47	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 16:47	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 16:47	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 16:47	75-00-3	
Chloroform	**1.1**	ug/m3	0.87	0.33	1.75		03/21/17 16:47	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 16:47	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 16:47	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 16:47	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 16:47	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 16:47	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 16:47	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 16:47	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 16:47	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 16:47	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 16:47	75-71-8	
1,1-Dichloroethane	**1.4J**	ug/m3	1.4	0.27	1.75		03/21/17 16:47	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 16:47	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 16:47	75-35-4	
cis-1,2-Dichloroethene	**105**	ug/m3	1.4	0.43	1.75		03/21/17 16:47	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 16:47	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 16:47	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 16:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 16:47	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 16:47	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 16:47	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 16:47	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 16:47	100-41-4	
4-Ethyltoluene	**2.4**	ug/m3	1.8	0.33	1.75		03/21/17 16:47	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 16:47	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/21/17 16:47	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 16:47	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 16:47	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 16:47	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 16:47	108-87-2	
Methylene Chloride	**<0.95**	ug/m3	6.2	0.95	1.75		03/21/17 16:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 16:47	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 16:47	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_20_20170302 **Lab ID: 10381035007** Collected: 03/02/17 12:05 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.7**	ug/m3	4.4	0.42	1.75		03/21/17 16:47	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.34	1.75		03/21/17 16:47	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 16:47	79-34-5	
Tetrachloroethene	**179**	ug/m3	1.2	0.49	1.75		03/21/17 16:47	127-18-4	
Toluene	**2.1**	ug/m3	1.3	0.27	1.75		03/21/17 16:47	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 16:47	120-82-1	
1,1,1-Trichloroethane	**3.0**	ug/m3	1.9	0.43	1.75		03/21/17 16:47	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 16:47	79-00-5	
Trichloroethene	**151**	ug/m3	0.96	0.48	1.75		03/21/17 16:47	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.0	0.23	1.75		03/21/17 16:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.9J**	ug/m3	2.8	0.53	1.75		03/21/17 16:47	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.22	1.75		03/21/17 16:47	95-63-6	
1,3,5-Trimethylbenzene	**1.7J**	ug/m3	1.7	0.32	1.75		03/21/17 16:47	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 16:47	75-01-4	
m&p-Xylene	**2.1J**	ug/m3	3.1	1.4	1.75		03/21/17 16:47	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 16:47	95-47-6	

Sample: VP-2_30_20170302 **Lab ID: 10381035008** Collected: 03/02/17 12:01 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**27.4**	ug/m3	4.1	1.4	1.68		03/21/17 17:19	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 17:19	107-05-1	
Benzene	**0.55**	ug/m3	0.55	0.20	1.68		03/21/17 17:19	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 17:19	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 17:19	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 17:19	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 17:19	106-99-0	
2-Butanone (MEK)	**6.2**	ug/m3	5.0	0.38	1.68		03/21/17 17:19	78-93-3	
Carbon disulfide	**0.64J**	ug/m3	1.1	0.17	1.68		03/21/17 17:19	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 17:19	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 17:19	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/21/17 17:19	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 17:19	75-00-3	
Chloroform	**1.0**	ug/m3	0.83	0.32	1.68		03/21/17 17:19	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 17:19	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 17:19	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/21/17 17:19	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 17:19	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 17:19	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 17:19	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 17:19	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 17:19	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_30_20170302 **Lab ID: 10381035008** Collected: 03/02/17 12:01 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**1.7J**	ug/m3	2.0	0.84	1.68		03/21/17 17:19	106-46-7	
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/21/17 17:19	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 17:19	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 17:19	107-06-2	
1,1-Dichloroethene	**0.72J**	ug/m3	1.4	0.40	1.68		03/21/17 17:19	75-35-4	
cis-1,2-Dichloroethene	**124**	ug/m3	1.4	0.41	1.68		03/21/17 17:19	156-59-2	
trans-1,2-Dichloroethene	**1.2J**	ug/m3	1.4	0.65	1.68		03/21/17 17:19	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 17:19	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 17:19	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 17:19	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 17:19	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 17:19	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 17:19	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 17:19	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.7	0.32	1.68		03/21/17 17:19	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 17:19	87-68-3	
n-Hexane	**<0.60**	ug/m3	1.2	0.60	1.68		03/21/17 17:19	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 17:19	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 17:19	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 17:19	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 17:19	108-87-2	
Methylene Chloride	**4.1J**	ug/m3	5.9	0.91	1.68		03/21/17 17:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 17:19	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 17:19	1634-04-4	
2-Propanol	**5.2**	ug/m3	4.2	0.40	1.68		03/21/17 17:19	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.32	1.68		03/21/17 17:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 17:19	79-34-5	
Tetrachloroethene	**391**	ug/m3	1.2	0.47	1.68		03/21/17 17:19	127-18-4	
Toluene	**22.7**	ug/m3	1.3	0.26	1.68		03/21/17 17:19	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 17:19	120-82-1	
1,1,1-Trichloroethane	**2.4**	ug/m3	1.9	0.41	1.68		03/21/17 17:19	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 17:19	79-00-5	
Trichloroethene	**288**	ug/m3	0.92	0.46	1.68		03/21/17 17:19	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	1.9	0.22	1.68		03/21/17 17:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	**54.4**	ug/m3	2.7	0.51	1.68		03/21/17 17:19	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.21	1.68		03/21/17 17:19	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.31	1.68		03/21/17 17:19	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 17:19	75-01-4	
m&p-Xylene	**2.8J**	ug/m3	3.0	1.3	1.68		03/21/17 17:19	179601-23-1	
o-Xylene	**0.94J**	ug/m3	1.5	0.59	1.68		03/21/17 17:19	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_5_20170302 **Lab ID: 10381035009** Collected: 03/02/17 11:22 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**10.2**	ug/m3	4.2	1.5	1.75		03/21/17 17:50	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 17:50	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 17:50	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 17:50	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 17:50	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 17:50	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 17:50	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 17:50	78-93-3	
Carbon disulfide	**1.2**	ug/m3	1.1	0.18	1.75		03/21/17 17:50	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 17:50	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 17:50	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 17:50	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 17:50	75-00-3	
Chloroform	**0.57J**	ug/m3	0.87	0.33	1.75		03/21/17 17:50	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 17:50	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 17:50	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 17:50	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 17:50	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 17:50	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 17:50	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 17:50	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 17:50	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 17:50	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 17:50	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 17:50	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 17:50	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 17:50	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/21/17 17:50	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 17:50	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 17:50	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 17:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 17:50	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 17:50	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 17:50	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 17:50	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 17:50	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/21/17 17:50	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 17:50	87-68-3	
n-Hexane	**2.7**	ug/m3	1.3	0.62	1.75		03/21/17 17:50	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 17:50	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 17:50	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 17:50	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 17:50	108-87-2	
Methylene Chloride	**34.2**	ug/m3	6.2	0.95	1.75		03/21/17 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 17:50	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 17:50	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_5_20170302 **Lab ID: 10381035009** Collected: 03/02/17 11:22 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/21/17 17:50	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.34	1.75		03/21/17 17:50	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 17:50	79-34-5	
Tetrachloroethene	**8.0**	ug/m3	1.2	0.49	1.75		03/21/17 17:50	127-18-4	
Toluene	**2.4**	ug/m3	1.3	0.27	1.75		03/21/17 17:50	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 17:50	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/21/17 17:50	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 17:50	79-00-5	
Trichloroethene	**1.9**	ug/m3	0.96	0.48	1.75		03/21/17 17:50	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.0	0.23	1.75		03/21/17 17:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.90J**	ug/m3	2.8	0.53	1.75		03/21/17 17:50	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.22	1.75		03/21/17 17:50	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/21/17 17:50	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 17:50	75-01-4	
m&p-Xylene	**1.7J**	ug/m3	3.1	1.4	1.75		03/21/17 17:50	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 17:50	95-47-6	

Sample: VP-4_10_20170302 **Lab ID: 10381035010** Collected: 03/02/17 11:28 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**24.1**	ug/m3	4.2	1.5	1.75		03/21/17 18:21	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 18:21	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 18:21	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 18:21	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 18:21	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 18:21	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 18:21	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 18:21	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 18:21	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 18:21	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 18:21	108-90-7	
Chlorodifluoromethane	**1.5**	ug/m3	1.3	0.48	1.75		03/21/17 18:21	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 18:21	75-00-3	
Chloroform	**1.6**	ug/m3	0.87	0.33	1.75		03/21/17 18:21	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 18:21	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 18:21	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 18:21	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 18:21	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 18:21	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 18:21	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 18:21	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 18:21	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_10_20170302 **Lab ID: 10381035010** Collected: 03/02/17 11:28 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 18:21	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 18:21	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 18:21	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 18:21	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 18:21	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/21/17 18:21	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 18:21	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 18:21	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 18:21	10061-01-5	
trans-1,3-Dichloropropene	**0.83J**	ug/m3	1.6	0.46	1.75		03/21/17 18:21	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 18:21	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 18:21	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 18:21	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 18:21	100-41-4	
4-Ethyltoluene	**1.7J**	ug/m3	1.8	0.33	1.75		03/21/17 18:21	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 18:21	87-68-3	
n-Hexane	**2.6**	ug/m3	1.3	0.62	1.75		03/21/17 18:21	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 18:21	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 18:21	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 18:21	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 18:21	108-87-2	
Methylene Chloride	**20.1**	ug/m3	6.2	0.95	1.75		03/21/17 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 18:21	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 18:21	1634-04-4	
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/21/17 18:21	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/21/17 18:21	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 18:21	79-34-5	
Tetrachloroethene	**5.6**	ug/m3	1.2	0.49	1.75		03/21/17 18:21	127-18-4	
Toluene	**<0.27**	ug/m3	1.3	0.27	1.75		03/21/17 18:21	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 18:21	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/21/17 18:21	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 18:21	79-00-5	
Trichloroethene	**5.4**	ug/m3	0.96	0.48	1.75		03/21/17 18:21	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.0	0.23	1.75		03/21/17 18:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.4J**	ug/m3	2.8	0.53	1.75		03/21/17 18:21	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.22	1.75		03/21/17 18:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/21/17 18:21	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 18:21	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/21/17 18:21	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 18:21	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_20_20170302 **Lab ID: 10381035011** Collected: 03/02/17 11:40 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**14.5**	ug/m3	4.2	1.5	1.75		03/21/17 18:53	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 18:53	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/21/17 18:53	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/21/17 18:53	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 18:53	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 18:53	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 18:53	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 18:53	78-93-3	
Carbon disulfide	**0.95J**	ug/m3	1.1	0.18	1.75		03/21/17 18:53	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 18:53	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 18:53	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 18:53	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 18:53	75-00-3	
Chloroform	**0.65J**	ug/m3	0.87	0.33	1.75		03/21/17 18:53	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 18:53	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 18:53	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/21/17 18:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 18:53	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 18:53	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 18:53	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 18:53	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 18:53	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/21/17 18:53	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 18:53	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 18:53	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 18:53	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 18:53	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/21/17 18:53	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 18:53	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 18:53	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 18:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 18:53	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 18:53	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 18:53	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 18:53	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/21/17 18:53	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.8	0.33	1.75		03/21/17 18:53	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 18:53	87-68-3	
n-Hexane	**1.6**	ug/m3	1.3	0.62	1.75		03/21/17 18:53	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 18:53	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 18:53	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 18:53	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 18:53	108-87-2	
Methylene Chloride	**10.8**	ug/m3	6.2	0.95	1.75		03/21/17 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 18:53	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 18:53	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_20_20170302 **Lab ID: 10381035011** Collected: 03/02/17 11:40 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**4.2J**	ug/m3	4.4	0.42	1.75		03/21/17 18:53	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.34	1.75		03/21/17 18:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 18:53	79-34-5	
Tetrachloroethene	**6.3**	ug/m3	1.2	0.49	1.75		03/21/17 18:53	127-18-4	
Toluene	**13.4**	ug/m3	1.3	0.27	1.75		03/21/17 18:53	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 18:53	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/21/17 18:53	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 18:53	79-00-5	
Trichloroethene	**6.0**	ug/m3	0.96	0.48	1.75		03/21/17 18:53	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.0	0.23	1.75		03/21/17 18:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**2.4J**	ug/m3	2.8	0.53	1.75		03/21/17 18:53	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.22	1.75		03/21/17 18:53	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/21/17 18:53	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 18:53	75-01-4	
m&p-Xylene	**2.2J**	ug/m3	3.1	1.4	1.75		03/21/17 18:53	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/21/17 18:53	95-47-6	

Sample: VP-4_30_20170302 **Lab ID: 10381035012** Collected: 03/02/17 11:22 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**10.9**	ug/m3	4.6	1.6	1.92		03/21/17 19:25	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/21/17 19:25	107-05-1	
Benzene	**<0.23**	ug/m3	0.62	0.23	1.92		03/21/17 19:25	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/21/17 19:25	75-27-4	
Bromoform	**<1.7**	ug/m3	10.1	1.7	1.92		03/21/17 19:25	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/21/17 19:25	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/21/17 19:25	106-99-0	
2-Butanone (MEK)	**<0.44**	ug/m3	5.8	0.44	1.92		03/21/17 19:25	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/21/17 19:25	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/21/17 19:25	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/21/17 19:25	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/21/17 19:25	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/21/17 19:25	75-00-3	
Chloroform	**0.82J**	ug/m3	0.95	0.36	1.92		03/21/17 19:25	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/21/17 19:25	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/21/17 19:25	76-15-3	
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/21/17 19:25	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/21/17 19:25	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/21/17 19:25	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/21/17 19:25	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/21/17 19:25	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/21/17 19:25	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-4_30_20170302 **Lab ID: 10381035012** Collected: 03/02/17 11:22 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/21/17 19:25	106-46-7	
Dichlorodifluoromethane	**<0.92**	ug/m3	4.8	0.92	1.92		03/21/17 19:25	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/21/17 19:25	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/21/17 19:25	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/21/17 19:25	75-35-4	
cis-1,2-Dichloroethene	**1.8**	ug/m3	1.6	0.47	1.92		03/21/17 19:25	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/21/17 19:25	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/21/17 19:25	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/21/17 19:25	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/21/17 19:25	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/21/17 19:25	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/21/17 19:25	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/21/17 19:25	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/21/17 19:25	100-41-4	
4-Ethyltoluene	**1.7J**	ug/m3	1.9	0.36	1.92		03/21/17 19:25	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/21/17 19:25	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.4	0.69	1.92		03/21/17 19:25	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/21/17 19:25	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/21/17 19:25	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/21/17 19:25	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/21/17 19:25	108-87-2	
Methylene Chloride	**4.0J**	ug/m3	6.8	1.0	1.92		03/21/17 19:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/21/17 19:25	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/21/17 19:25	1634-04-4	
2-Propanol	**4.2J**	ug/m3	4.8	0.46	1.92		03/21/17 19:25	67-63-0	
Styrene	**1.2J**	ug/m3	1.7	0.37	1.92		03/21/17 19:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	2.7	0.63	1.92		03/21/17 19:25	79-34-5	
Tetrachloroethene	**71.9**	ug/m3	1.3	0.53	1.92		03/21/17 19:25	127-18-4	
Toluene	**18.9**	ug/m3	1.5	0.30	1.92		03/21/17 19:25	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/21/17 19:25	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/21/17 19:25	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/21/17 19:25	79-00-5	
Trichloroethene	**59.3**	ug/m3	1.1	0.53	1.92		03/21/17 19:25	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.2	0.25	1.92		03/21/17 19:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	**4.6**	ug/m3	3.1	0.58	1.92		03/21/17 19:25	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	1.9	0.24	1.92		03/21/17 19:25	95-63-6	
1,3,5-Trimethylbenzene	**1.8J**	ug/m3	1.9	0.35	1.92		03/21/17 19:25	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/21/17 19:25	75-01-4	
m&p-Xylene	**2.5J**	ug/m3	3.4	1.5	1.92		03/21/17 19:25	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/21/17 19:25	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_5_20170302 **Lab ID: 10381035013** Collected: 03/02/17 13:00 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.3**	ug/m3	4.9	1.7	2.01		03/21/17 19:57	67-64-1	
Allyl chloride	**<0.46**	ug/m3	3.2	0.46	2.01		03/21/17 19:57	107-05-1	
Benzene	**<0.25**	ug/m3	0.65	0.25	2.01		03/21/17 19:57	71-43-2	
Bromodichloromethane	**<0.39**	ug/m3	2.7	0.39	2.01		03/21/17 19:57	75-27-4	
Bromoform	**<1.8**	ug/m3	10.6	1.8	2.01		03/21/17 19:57	75-25-2	
Bromomethane	**<0.62**	ug/m3	1.6	0.62	2.01		03/21/17 19:57	74-83-9	
1,3-Butadiene	**<0.35**	ug/m3	0.90	0.35	2.01		03/21/17 19:57	106-99-0	
2-Butanone (MEK)	**<0.46**	ug/m3	6.0	0.46	2.01		03/21/17 19:57	78-93-3	
Carbon disulfide	**12.6**	ug/m3	1.3	0.20	2.01		03/21/17 19:57	75-15-0	
Carbon tetrachloride	**<0.39**	ug/m3	1.3	0.39	2.01		03/21/17 19:57	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		03/21/17 19:57	108-90-7	
Chlorodifluoromethane	**<0.55**	ug/m3	1.4	0.55	2.01		03/21/17 19:57	75-45-6	
Chloroethane	**<0.39**	ug/m3	1.1	0.39	2.01		03/21/17 19:57	75-00-3	
Chloroform	**1.2**	ug/m3	1.0	0.38	2.01		03/21/17 19:57	67-66-3	
Chloromethane	**<0.22**	ug/m3	0.84	0.22	2.01		03/21/17 19:57	74-87-3	
Chloropentafluoroethane	**<6.5**	ug/m3	6.5	6.5	2.01		03/21/17 19:57	76-15-3	
Cyclohexane	**<0.64**	ug/m3	1.4	0.64	2.01		03/21/17 19:57	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.9**	ug/m3	9.9	9.9	2.01		03/21/17 19:57	96-12-8	
Dibromochloromethane	**<1.7**	ug/m3	3.5	1.7	2.01		03/21/17 19:57	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.1	1.6	2.01		03/21/17 19:57	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/21/17 19:57	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.5	1.1	2.01		03/21/17 19:57	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/21/17 19:57	106-46-7	
Dichlorodifluoromethane	**<0.96**	ug/m3	5.1	0.96	2.01		03/21/17 19:57	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.6	0.32	2.01		03/21/17 19:57	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/m3	0.82	0.41	2.01		03/21/17 19:57	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.6	0.48	2.01		03/21/17 19:57	75-35-4	
cis-1,2-Dichloroethene	**<0.49**	ug/m3	1.6	0.49	2.01		03/21/17 19:57	156-59-2	
trans-1,2-Dichloroethene	**<0.77**	ug/m3	1.6	0.77	2.01		03/21/17 19:57	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/m3	1.9	0.54	2.01		03/21/17 19:57	78-87-5	
cis-1,3-Dichloropropene	**<0.74**	ug/m3	1.8	0.74	2.01		03/21/17 19:57	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/m3	1.8	0.52	2.01		03/21/17 19:57	10061-02-6	
Dichlorotetrafluoroethane	**<0.62**	ug/m3	2.9	0.62	2.01		03/21/17 19:57	76-14-2	
Freon 123	**<6.4**	ug/m3	6.4	6.4	2.01		03/21/17 19:57	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.71**	ug/m3	7.4	0.71	2.01		03/21/17 19:57	123-91-1	
Ethylbenzene	**<0.85**	ug/m3	1.8	0.85	2.01		03/21/17 19:57	100-41-4	
4-Ethyltoluene	**<0.38**	ug/m3	2.0	0.38	2.01		03/21/17 19:57	622-96-8	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	4.4	1.3	2.01		03/21/17 19:57	87-68-3	
n-Hexane	**1.3J**	ug/m3	1.4	0.72	2.01		03/21/17 19:57	110-54-3	
2-Hexanone	**<0.82**	ug/m3	8.4	0.82	2.01		03/21/17 19:57	591-78-6	
Isopropylbenzene (Cumene)	**<0.28**	ug/m3	5.0	0.28	2.01		03/21/17 19:57	98-82-8	
Methyl acetate	**<3.1**	ug/m3	3.1	3.1	2.01		03/21/17 19:57	79-20-9	
Methylcyclohexane	**<0.49**	ug/m3	1.6	0.49	2.01		03/21/17 19:57	108-87-2	
Methylene Chloride	**7.0J**	ug/m3	7.1	1.1	2.01		03/21/17 19:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.44**	ug/m3	8.4	0.44	2.01		03/21/17 19:57	108-10-1	
Methyl-tert-butyl ether	**<0.61**	ug/m3	7.4	0.61	2.01		03/21/17 19:57	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_5_20170302 **Lab ID: 10381035013** Collected: 03/02/17 13:00 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.48**	ug/m3	5.0	0.48	2.01		03/21/17 19:57	67-63-0	
Styrene	**<0.39**	ug/m3	1.7	0.39	2.01		03/21/17 19:57	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	2.8	0.66	2.01		03/21/17 19:57	79-34-5	
Tetrachloroethene	**3.9**	ug/m3	1.4	0.56	2.01		03/21/17 19:57	127-18-4	
Toluene	**<0.31**	ug/m3	1.5	0.31	2.01		03/21/17 19:57	108-88-3	
1,2,4-Trichlorobenzene	**<1.8**	ug/m3	7.6	1.8	2.01		03/21/17 19:57	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	2.2	0.50	2.01		03/21/17 19:57	71-55-6	
1,1,2-Trichloroethane	**<0.49**	ug/m3	1.1	0.49	2.01		03/21/17 19:57	79-00-5	
Trichloroethene	**<0.55**	ug/m3	1.1	0.55	2.01		03/21/17 19:57	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.3	0.27	2.01		03/21/17 19:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.61**	ug/m3	3.2	0.61	2.01		03/21/17 19:57	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	2.0	0.25	2.01		03/21/17 19:57	95-63-6	
1,3,5-Trimethylbenzene	**1.5J**	ug/m3	2.0	0.37	2.01		03/21/17 19:57	108-67-8	
Vinyl chloride	**<0.39**	ug/m3	0.52	0.39	2.01		03/21/17 19:57	75-01-4	
m&p-Xylene	**1.9J**	ug/m3	3.6	1.6	2.01		03/21/17 19:57	179601-23-1	
o-Xylene	**<0.71**	ug/m3	1.8	0.71	2.01		03/21/17 19:57	95-47-6	

Sample: VP-106_11_20170302 **Lab ID: 10381035014** Collected: 03/02/17 12:49 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**7.9**	ug/m3	4.1	1.4	1.68		03/21/17 20:28	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 20:28	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/21/17 20:28	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 20:28	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 20:28	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 20:28	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 20:28	106-99-0	
2-Butanone (MEK)	**6.1**	ug/m3	5.0	0.38	1.68		03/21/17 20:28	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/21/17 20:28	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 20:28	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 20:28	108-90-7	
Chlorodifluoromethane	**0.74J**	ug/m3	1.2	0.46	1.68		03/21/17 20:28	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 20:28	75-00-3	
Chloroform	**1.1**	ug/m3	0.83	0.32	1.68		03/21/17 20:28	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 20:28	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 20:28	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/21/17 20:28	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 20:28	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 20:28	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 20:28	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 20:28	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 20:28	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_11_20170302 **Lab ID: 10381035014** Collected: 03/02/17 12:49 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/21/17 20:28	106-46-7	
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/21/17 20:28	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 20:28	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 20:28	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/21/17 20:28	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 20:28	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/21/17 20:28	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 20:28	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 20:28	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 20:28	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 20:28	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 20:28	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 20:28	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 20:28	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/21/17 20:28	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 20:28	87-68-3	
n-Hexane	**1.0J**	ug/m3	1.2	0.60	1.68		03/21/17 20:28	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 20:28	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 20:28	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 20:28	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 20:28	108-87-2	
Methylene Chloride	**<0.91**	ug/m3	5.9	0.91	1.68		03/21/17 20:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 20:28	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 20:28	1634-04-4	
2-Propanol	**<0.40**	ug/m3	4.2	0.40	1.68		03/21/17 20:28	67-63-0	
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/21/17 20:28	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 20:28	79-34-5	
Tetrachloroethene	**8.4**	ug/m3	1.2	0.47	1.68		03/21/17 20:28	127-18-4	
Toluene	**<0.26**	ug/m3	1.3	0.26	1.68		03/21/17 20:28	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 20:28	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/21/17 20:28	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 20:28	79-00-5	
Trichloroethene	**1.5**	ug/m3	0.92	0.46	1.68		03/21/17 20:28	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	1.9	0.22	1.68		03/21/17 20:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.51**	ug/m3	2.7	0.51	1.68		03/21/17 20:28	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.21	1.68		03/21/17 20:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/21/17 20:28	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 20:28	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/21/17 20:28	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/21/17 20:28	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_19.5_20170302 **Lab ID: 10381035015** Collected: 03/02/17 12:49 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**19.5**	ug/m3	3.9	1.3	1.61		03/21/17 21:31	67-64-1	
Allyl chloride	**<0.37**	ug/m3	2.6	0.37	1.61		03/21/17 21:31	107-05-1	
Benzene	**0.27J**	ug/m3	0.52	0.20	1.61		03/21/17 21:31	71-43-2	
Bromodichloromethane	**<0.31**	ug/m3	2.2	0.31	1.61		03/21/17 21:31	75-27-4	
Bromoform	**<1.5**	ug/m3	8.5	1.5	1.61		03/21/17 21:31	75-25-2	
Bromomethane	**<0.50**	ug/m3	1.3	0.50	1.61		03/21/17 21:31	74-83-9	
1,3-Butadiene	**<0.28**	ug/m3	0.72	0.28	1.61		03/21/17 21:31	106-99-0	
2-Butanone (MEK)	**13.3**	ug/m3	4.8	0.37	1.61		03/21/17 21:31	78-93-3	
Carbon disulfide	**2.4**	ug/m3	1.0	0.16	1.61		03/21/17 21:31	75-15-0	
Carbon tetrachloride	**<0.31**	ug/m3	1.0	0.31	1.61		03/21/17 21:31	56-23-5	
Chlorobenzene	**<0.22**	ug/m3	1.5	0.22	1.61		03/21/17 21:31	108-90-7	
Chlorodifluoromethane	**<0.44**	ug/m3	1.2	0.44	1.61		03/21/17 21:31	75-45-6	
Chloroethane	**<0.31**	ug/m3	0.87	0.31	1.61		03/21/17 21:31	75-00-3	
Chloroform	**4.2**	ug/m3	0.80	0.31	1.61		03/21/17 21:31	67-66-3	
Chloromethane	**<0.17**	ug/m3	0.68	0.17	1.61		03/21/17 21:31	74-87-3	
Chloropentafluoroethane	**<5.2**	ug/m3	5.2	5.2	1.61		03/21/17 21:31	76-15-3	
Cyclohexane	**<0.51**	ug/m3	1.1	0.51	1.61		03/21/17 21:31	110-82-7	
1,2-Dibromo-3-chloropropane	**<7.9**	ug/m3	7.9	7.9	1.61		03/21/17 21:31	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.8	1.4	1.61		03/21/17 21:31	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/m3	2.5	1.2	1.61		03/21/17 21:31	106-93-4	
1,2-Dichlorobenzene	**<0.82**	ug/m3	2.0	0.82	1.61		03/21/17 21:31	95-50-1	
1,3-Dichlorobenzene	**<0.85**	ug/m3	2.0	0.85	1.61		03/21/17 21:31	541-73-1	
1,4-Dichlorobenzene	**<0.80**	ug/m3	2.0	0.80	1.61		03/21/17 21:31	106-46-7	
Dichlorodifluoromethane	**<0.77**	ug/m3	4.0	0.77	1.61		03/21/17 21:31	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/m3	1.3	0.25	1.61		03/21/17 21:31	75-34-3	
1,2-Dichloroethane	**<0.33**	ug/m3	0.66	0.33	1.61		03/21/17 21:31	107-06-2	
1,1-Dichloroethene	**<0.38**	ug/m3	1.3	0.38	1.61		03/21/17 21:31	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.3	0.40	1.61		03/21/17 21:31	156-59-2	
trans-1,2-Dichloroethene	**<0.62**	ug/m3	1.3	0.62	1.61		03/21/17 21:31	156-60-5	
1,2-Dichloropropane	**<0.43**	ug/m3	1.5	0.43	1.61		03/21/17 21:31	78-87-5	
cis-1,3-Dichloropropene	**<0.59**	ug/m3	1.5	0.59	1.61		03/21/17 21:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.42**	ug/m3	1.5	0.42	1.61		03/21/17 21:31	10061-02-6	
Dichlorotetrafluoroethane	**<0.50**	ug/m3	2.3	0.50	1.61		03/21/17 21:31	76-14-2	
Freon 123	**<5.1**	ug/m3	5.1	5.1	1.61		03/21/17 21:31	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.57**	ug/m3	5.9	0.57	1.61		03/21/17 21:31	123-91-1	
Ethylbenzene	**<0.68**	ug/m3	1.4	0.68	1.61		03/21/17 21:31	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.6	0.30	1.61		03/21/17 21:31	622-96-8	
Hexachloro-1,3-butadiene	**<1.0**	ug/m3	3.5	1.0	1.61		03/21/17 21:31	87-68-3	
n-Hexane	**5.7**	ug/m3	1.2	0.57	1.61		03/21/17 21:31	110-54-3	
2-Hexanone	**<0.66**	ug/m3	6.7	0.66	1.61		03/21/17 21:31	591-78-6	
Isopropylbenzene (Cumene)	**<0.22**	ug/m3	4.0	0.22	1.61		03/21/17 21:31	98-82-8	
Methyl acetate	**<2.5**	ug/m3	2.5	2.5	1.61		03/21/17 21:31	79-20-9	
Methylcyclohexane	**<0.39**	ug/m3	1.3	0.39	1.61		03/21/17 21:31	108-87-2	
Methylene Chloride	**37.6**	ug/m3	5.7	0.87	1.61		03/21/17 21:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.35**	ug/m3	6.7	0.35	1.61		03/21/17 21:31	108-10-1	
Methyl-tert-butyl ether	**<0.49**	ug/m3	5.9	0.49	1.61		03/21/17 21:31	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_19.5_20170302 **Lab ID: 10381035015** Collected: 03/02/17 12:49 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.1**	ug/m3	4.0	0.39	1.61		03/21/17 21:31	67-63-0	
Styrene	**1.9**	ug/m3	1.4	0.31	1.61		03/21/17 21:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.53**	ug/m3	2.2	0.53	1.61		03/21/17 21:31	79-34-5	
Tetrachloroethene	**19.9**	ug/m3	1.1	0.45	1.61		03/21/17 21:31	127-18-4	
Toluene	**5.1**	ug/m3	1.2	0.25	1.61		03/21/17 21:31	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.1	1.5	1.61		03/21/17 21:31	120-82-1	
1,1,1-Trichloroethane	**<0.40**	ug/m3	1.8	0.40	1.61		03/21/17 21:31	71-55-6	
1,1,2-Trichloroethane	**<0.40**	ug/m3	0.89	0.40	1.61		03/21/17 21:31	79-00-5	
Trichloroethene	**8.0**	ug/m3	0.89	0.44	1.61		03/21/17 21:31	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	1.8	0.21	1.61		03/21/17 21:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.84J**	ug/m3	2.6	0.48	1.61		03/21/17 21:31	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.6	0.20	1.61		03/21/17 21:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.29**	ug/m3	1.6	0.29	1.61		03/21/17 21:31	108-67-8	
Vinyl chloride	**<0.31**	ug/m3	0.42	0.31	1.61		03/21/17 21:31	75-01-4	
m&p-Xylene	**1.8J**	ug/m3	2.8	1.3	1.61		03/21/17 21:31	179601-23-1	
o-Xylene	**<0.57**	ug/m3	1.4	0.57	1.61		03/21/17 21:31	95-47-6	

Sample: VP-106_28_20170302 **Lab ID: 10381035016** Collected: 03/02/17 12:15 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**28.1**	ug/m3	4.2	1.5	1.75		03/21/17 22:35	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/21/17 22:35	107-05-1	
Benzene	**0.54J**	ug/m3	0.57	0.21	1.75		03/21/17 22:35	71-43-2	
Bromodichloromethane	**2.1J**	ug/m3	2.4	0.34	1.75		03/21/17 22:35	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/21/17 22:35	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/21/17 22:35	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/21/17 22:35	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/21/17 22:35	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/21/17 22:35	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/21/17 22:35	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/21/17 22:35	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/21/17 22:35	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/21/17 22:35	75-00-3	
Chloroform	**6.4**	ug/m3	0.87	0.33	1.75		03/21/17 22:35	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/21/17 22:35	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 22:35	76-15-3	
Cyclohexane	**1.4**	ug/m3	1.2	0.55	1.75		03/21/17 22:35	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/21/17 22:35	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/21/17 22:35	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/21/17 22:35	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/21/17 22:35	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/21/17 22:35	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_28_20170302 **Lab ID: 10381035016** Collected: 03/02/17 12:15 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**1.6J**	ug/m3	2.1	0.87	1.75		03/21/17 22:35	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/21/17 22:35	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/21/17 22:35	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/21/17 22:35	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 22:35	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/21/17 22:35	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/21/17 22:35	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/21/17 22:35	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/21/17 22:35	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/21/17 22:35	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/21/17 22:35	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/21/17 22:35	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/21/17 22:35	123-91-1	
Ethylbenzene	**0.84J**	ug/m3	1.5	0.74	1.75		03/21/17 22:35	100-41-4	
4-Ethyltoluene	**2.3**	ug/m3	1.8	0.33	1.75		03/21/17 22:35	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/21/17 22:35	87-68-3	
n-Hexane	**33.8**	ug/m3	1.3	0.62	1.75		03/21/17 22:35	110-54-3	
n-Hexane	**17.7**	ug/m3	1.7	0.84	2.35		03/23/17 03:46	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/21/17 22:35	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/21/17 22:35	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/21/17 22:35	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/21/17 22:35	108-87-2	
Methylene Chloride	**122**	ug/m3	8.3	1.3	2.35		03/23/17 03:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/21/17 22:35	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/21/17 22:35	1634-04-4	
2-Propanol	**2.4J**	ug/m3	4.4	0.42	1.75		03/21/17 22:35	67-63-0	
Styrene	**1.2J**	ug/m3	1.5	0.34	1.75		03/21/17 22:35	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/21/17 22:35	79-34-5	
Tetrachloroethene	**26.7**	ug/m3	1.2	0.49	1.75		03/21/17 22:35	127-18-4	
Toluene	**11.1**	ug/m3	1.3	0.27	1.75		03/21/17 22:35	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/21/17 22:35	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/21/17 22:35	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/21/17 22:35	79-00-5	
Trichloroethene	**6.6**	ug/m3	0.96	0.48	1.75		03/21/17 22:35	79-01-6	
Trichlorofluoromethane	**2.2**	ug/m3	2.0	0.23	1.75		03/21/17 22:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.2J**	ug/m3	2.8	0.53	1.75		03/21/17 22:35	76-13-1	
1,2,4-Trimethylbenzene	**8.8**	ug/m3	1.7	0.22	1.75		03/21/17 22:35	95-63-6	
1,3,5-Trimethylbenzene	**2.8**	ug/m3	1.7	0.32	1.75		03/21/17 22:35	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/21/17 22:35	75-01-4	
m&p-Xylene	**4.7**	ug/m3	3.1	1.4	1.75		03/21/17 22:35	179601-23-1	
o-Xylene	**1.7**	ug/m3	1.5	0.61	1.75		03/21/17 22:35	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_56_20170302 **Lab ID: 10381035017** Collected: 03/02/17 13:06 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.8**	ug/m3	4.1	1.4	1.68		03/21/17 23:06	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 23:06	107-05-1	
Benzene	**0.56**	ug/m3	0.55	0.20	1.68		03/21/17 23:06	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 23:06	75-27-4	
Bromoform	**4.1J**	ug/m3	8.8	1.5	1.68		03/21/17 23:06	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 23:06	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 23:06	106-99-0	
2-Butanone (MEK)	**<0.38**	ug/m3	5.0	0.38	1.68		03/21/17 23:06	78-93-3	
Carbon disulfide	**0.64J**	ug/m3	1.1	0.17	1.68		03/21/17 23:06	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 23:06	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 23:06	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/21/17 23:06	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 23:06	75-00-3	
Chloroform	**2.5**	ug/m3	0.83	0.32	1.68		03/21/17 23:06	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 23:06	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 23:06	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/21/17 23:06	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 23:06	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 23:06	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 23:06	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 23:06	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 23:06	541-73-1	
1,4-Dichlorobenzene	**1.6J**	ug/m3	2.0	0.84	1.68		03/21/17 23:06	106-46-7	
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/21/17 23:06	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 23:06	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 23:06	107-06-2	
1,1-Dichloroethene	**0.71J**	ug/m3	1.4	0.40	1.68		03/21/17 23:06	75-35-4	
cis-1,2-Dichloroethene	**65.1**	ug/m3	1.4	0.41	1.68		03/21/17 23:06	156-59-2	
trans-1,2-Dichloroethene	**3.1**	ug/m3	1.4	0.65	1.68		03/21/17 23:06	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 23:06	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 23:06	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 23:06	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 23:06	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 23:06	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 23:06	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 23:06	100-41-4	
4-Ethyltoluene	**1.6J**	ug/m3	1.7	0.32	1.68		03/21/17 23:06	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 23:06	87-68-3	
n-Hexane	**4.3**	ug/m3	1.2	0.60	1.68		03/21/17 23:06	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 23:06	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 23:06	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 23:06	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 23:06	108-87-2	
Methylene Chloride	**33.8**	ug/m3	5.9	0.91	1.68		03/21/17 23:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/21/17 23:06	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 23:06	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_56_20170302 **Lab ID: 10381035017** Collected: 03/02/17 13:06 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.40**	ug/m3	4.2	0.40	1.68		03/21/17 23:06	67-63-0	
Styrene	**1.0J**	ug/m3	1.5	0.32	1.68		03/21/17 23:06	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 23:06	79-34-5	
Tetrachloroethene	**506**	ug/m3	1.2	0.47	1.68		03/21/17 23:06	127-18-4	
Tetrachloroethene	**305**	ug/m3	23.2	9.3	33.6		03/23/17 05:14	127-18-4	
Toluene	**5.5**	ug/m3	1.3	0.26	1.68		03/21/17 23:06	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 23:06	120-82-1	
1,1,1-Trichloroethane	**1.1J**	ug/m3	1.9	0.41	1.68		03/21/17 23:06	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 23:06	79-00-5	
Trichloroethene	**1200**	ug/m3	0.92	0.46	1.68		03/21/17 23:06	79-01-6	
Trichloroethene	**1020**	ug/m3	18.5	9.3	33.6		03/23/17 05:14	79-01-6	
Trichlorofluoromethane	**10.9**	ug/m3	1.9	0.22	1.68		03/21/17 23:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	**64.7**	ug/m3	2.7	0.51	1.68		03/21/17 23:06	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	1.7	0.21	1.68		03/21/17 23:06	95-63-6	
1,3,5-Trimethylbenzene	**1.2J**	ug/m3	1.7	0.31	1.68		03/21/17 23:06	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 23:06	75-01-4	
m&p-Xylene	**2.2J**	ug/m3	3.0	1.3	1.68		03/21/17 23:06	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/21/17 23:06	95-47-6	

Sample: VP-106_72_20170302 **Lab ID: 10381035018** Collected: 03/02/17 13:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**44.9**	ug/m3	4.1	1.4	1.68		03/21/17 23:39	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/21/17 23:39	107-05-1	
Benzene	**1.1**	ug/m3	0.55	0.20	1.68		03/21/17 23:39	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/21/17 23:39	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/21/17 23:39	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/21/17 23:39	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/21/17 23:39	106-99-0	
2-Butanone (MEK)	**3.8J**	ug/m3	5.0	0.38	1.68		03/21/17 23:39	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/21/17 23:39	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/21/17 23:39	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/21/17 23:39	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/21/17 23:39	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/21/17 23:39	75-00-3	
Chloroform	**3.2**	ug/m3	0.83	0.32	1.68		03/21/17 23:39	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/21/17 23:39	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/21/17 23:39	76-15-3	
Cyclohexane	**0.85J**	ug/m3	1.2	0.53	1.68		03/21/17 23:39	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/21/17 23:39	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/21/17 23:39	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/21/17 23:39	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_72_20170302 **Lab ID: 10381035018** Collected: 03/02/17 13:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/21/17 23:39	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/21/17 23:39	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/21/17 23:39	106-46-7	
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/21/17 23:39	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/21/17 23:39	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/21/17 23:39	107-06-2	
1,1-Dichloroethene	**2.7**	ug/m3	1.4	0.40	1.68		03/21/17 23:39	75-35-4	
cis-1,2-Dichloroethene	**69.1**	ug/m3	1.4	0.41	1.68		03/21/17 23:39	156-59-2	
trans-1,2-Dichloroethene	**3.3**	ug/m3	1.4	0.65	1.68		03/21/17 23:39	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/21/17 23:39	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/21/17 23:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/21/17 23:39	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/21/17 23:39	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/21/17 23:39	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/21/17 23:39	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/21/17 23:39	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.7	0.32	1.68		03/21/17 23:39	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/21/17 23:39	87-68-3	
n-Hexane	**9.8**	ug/m3	1.2	0.60	1.68		03/21/17 23:39	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/21/17 23:39	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/21/17 23:39	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/21/17 23:39	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/21/17 23:39	108-87-2	
Methylene Chloride	**71.4**	ug/m3	5.9	0.91	1.68		03/21/17 23:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.8J**	ug/m3	7.0	0.36	1.68		03/21/17 23:39	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/21/17 23:39	1634-04-4	
2-Propanol	**10.0**	ug/m3	4.2	0.40	1.68		03/21/17 23:39	67-63-0	
Styrene	**1.3J**	ug/m3	1.5	0.32	1.68		03/21/17 23:39	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/21/17 23:39	79-34-5	
Tetrachloroethene	**523**	ug/m3	1.2	0.47	1.68		03/21/17 23:39	127-18-4	
Tetrachloroethene	**617**	ug/m3	29.7	12.0	43.15		03/23/17 05:42	127-18-4	
Toluene	**27.5**	ug/m3	1.3	0.26	1.68		03/21/17 23:39	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/21/17 23:39	120-82-1	
1,1,1-Trichloroethane	**1.5J**	ug/m3	1.9	0.41	1.68		03/21/17 23:39	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/21/17 23:39	79-00-5	
Trichloroethene	**1270**	ug/m3	0.92	0.46	1.68		03/21/17 23:39	79-01-6	
Trichloroethene	**2230**	ug/m3	23.7	11.9	43.15		03/23/17 05:42	79-01-6	
Trichlorofluoromethane	**9.6**	ug/m3	1.9	0.22	1.68		03/21/17 23:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	**78.9**	ug/m3	2.7	0.51	1.68		03/21/17 23:39	76-13-1	
1,2,4-Trimethylbenzene	**1.7**	ug/m3	1.7	0.21	1.68		03/21/17 23:39	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.31	1.68		03/21/17 23:39	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/21/17 23:39	75-01-4	
m&p-Xylene	**2.7J**	ug/m3	3.0	1.3	1.68		03/21/17 23:39	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/21/17 23:39	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_84_20170302 **Lab ID: 10381035019** Collected: 03/02/17 13:18 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**12.9**	ug/m3	3.2	1.1	1.34		03/22/17 00:12	67-64-1	
Allyl chloride	**<0.30**	ug/m3	2.1	0.30	1.34		03/22/17 00:12	107-05-1	
Benzene	**0.59**	ug/m3	0.44	0.16	1.34		03/22/17 00:12	71-43-2	
Bromodichloromethane	**<0.26**	ug/m3	1.8	0.26	1.34		03/22/17 00:12	75-27-4	
Bromoform	**<1.2**	ug/m3	7.0	1.2	1.34		03/22/17 00:12	75-25-2	
Bromomethane	**<0.42**	ug/m3	1.1	0.42	1.34		03/22/17 00:12	74-83-9	
1,3-Butadiene	**<0.24**	ug/m3	0.60	0.24	1.34		03/22/17 00:12	106-99-0	
2-Butanone (MEK)	**3.0J**	ug/m3	4.0	0.31	1.34		03/22/17 00:12	78-93-3	
Carbon disulfide	**0.59J**	ug/m3	0.84	0.14	1.34		03/22/17 00:12	75-15-0	
Carbon tetrachloride	**<0.26**	ug/m3	0.86	0.26	1.34		03/22/17 00:12	56-23-5	
Chlorobenzene	**<0.18**	ug/m3	1.3	0.18	1.34		03/22/17 00:12	108-90-7	
Chlorodifluoromethane	**<0.37**	ug/m3	0.96	0.37	1.34		03/22/17 00:12	75-45-6	
Chloroethane	**<0.26**	ug/m3	0.72	0.26	1.34		03/22/17 00:12	75-00-3	
Chloroform	**3.8**	ug/m3	0.66	0.25	1.34		03/22/17 00:12	67-66-3	
Chloromethane	**<0.14**	ug/m3	0.56	0.14	1.34		03/22/17 00:12	74-87-3	
Chloropentafluoroethane	**<4.3**	ug/m3	4.3	4.3	1.34		03/22/17 00:12	76-15-3	
Cyclohexane	**<0.42**	ug/m3	0.94	0.42	1.34		03/22/17 00:12	110-82-7	
1,2-Dibromo-3-chloropropane	**<6.6**	ug/m3	6.6	6.6	1.34		03/22/17 00:12	96-12-8	
Dibromochloromethane	**<1.1**	ug/m3	2.3	1.1	1.34		03/22/17 00:12	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/m3	2.1	1.0	1.34		03/22/17 00:12	106-93-4	
1,2-Dichlorobenzene	**<0.69**	ug/m3	1.6	0.69	1.34		03/22/17 00:12	95-50-1	
1,3-Dichlorobenzene	**<0.71**	ug/m3	1.6	0.71	1.34		03/22/17 00:12	541-73-1	
1,4-Dichlorobenzene	**1.3J**	ug/m3	1.6	0.67	1.34		03/22/17 00:12	106-46-7	
Dichlorodifluoromethane	**<0.64**	ug/m3	3.4	0.64	1.34		03/22/17 00:12	75-71-8	
1,1-Dichloroethane	**<0.21**	ug/m3	1.1	0.21	1.34		03/22/17 00:12	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.55	0.27	1.34		03/22/17 00:12	107-06-2	
1,1-Dichloroethene	**7.7**	ug/m3	1.1	0.32	1.34		03/22/17 00:12	75-35-4	
cis-1,2-Dichloroethene	**55.6**	ug/m3	1.1	0.33	1.34		03/22/17 00:12	156-59-2	
trans-1,2-Dichloroethene	**2.5**	ug/m3	1.1	0.51	1.34		03/22/17 00:12	156-60-5	
1,2-Dichloropropane	**<0.36**	ug/m3	1.3	0.36	1.34		03/22/17 00:12	78-87-5	
cis-1,3-Dichloropropene	**<0.49**	ug/m3	1.2	0.49	1.34		03/22/17 00:12	10061-01-5	
trans-1,3-Dichloropropene	**<0.35**	ug/m3	1.2	0.35	1.34		03/22/17 00:12	10061-02-6	
Dichlorotetrafluoroethane	**<0.42**	ug/m3	1.9	0.42	1.34		03/22/17 00:12	76-14-2	
Freon 123	**<4.3**	ug/m3	4.3	4.3	1.34		03/22/17 00:12	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.47**	ug/m3	4.9	0.47	1.34		03/22/17 00:12	123-91-1	
Ethylbenzene	**<0.57**	ug/m3	1.2	0.57	1.34		03/22/17 00:12	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.3	0.25	1.34		03/22/17 00:12	622-96-8	
Hexachloro-1,3-butadiene	**<0.87**	ug/m3	2.9	0.87	1.34		03/22/17 00:12	87-68-3	
n-Hexane	**1.5**	ug/m3	0.96	0.48	1.34		03/22/17 00:12	110-54-3	
2-Hexanone	**<0.55**	ug/m3	5.6	0.55	1.34		03/22/17 00:12	591-78-6	
Isopropylbenzene (Cumene)	**<0.18**	ug/m3	3.4	0.18	1.34		03/22/17 00:12	98-82-8	
Methyl acetate	**<2.1**	ug/m3	2.1	2.1	1.34		03/22/17 00:12	79-20-9	
Methylcyclohexane	**<0.32**	ug/m3	1.1	0.32	1.34		03/22/17 00:12	108-87-2	
Methylene Chloride	**<0.73**	ug/m3	4.7	0.73	1.34		03/22/17 00:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.29**	ug/m3	5.6	0.29	1.34		03/22/17 00:12	108-10-1	
Methyl-tert-butyl ether	**<0.41**	ug/m3	4.9	0.41	1.34		03/22/17 00:12	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_84_20170302 **Lab ID: 10381035019** Collected: 03/02/17 13:18 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.1**	ug/m3	3.4	0.32	1.34		03/22/17 00:12	67-63-0	
Styrene	**<0.26**	ug/m3	1.2	0.26	1.34		03/22/17 00:12	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.44**	ug/m3	1.9	0.44	1.34		03/22/17 00:12	79-34-5	
Tetrachloroethene	**395**	ug/m3	0.92	0.37	1.34		03/22/17 00:12	127-18-4	
Tetrachloroethene	**487**	ug/m3	24.7	10	35.91		03/23/17 04:46	127-18-4	
Toluene	**30.4**	ug/m3	1.0	0.21	1.34		03/22/17 00:12	108-88-3	
1,2,4-Trichlorobenzene	**<1.2**	ug/m3	5.1	1.2	1.34		03/22/17 00:12	120-82-1	
1,1,1-Trichloroethane	**2.4**	ug/m3	1.5	0.33	1.34		03/22/17 00:12	71-55-6	
1,1,2-Trichloroethane	**<0.33**	ug/m3	0.74	0.33	1.34		03/22/17 00:12	79-00-5	
Trichloroethene	**1040**	ug/m3	0.74	0.37	1.34		03/22/17 00:12	79-01-6	
Trichloroethene	**1920**	ug/m3	19.8	9.9	35.91		03/23/17 04:46	79-01-6	
Trichlorofluoromethane	**8.3**	ug/m3	1.5	0.18	1.34		03/22/17 00:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	**81.9**	ug/m3	2.1	0.40	1.34		03/22/17 00:12	76-13-1	
1,2,4-Trimethylbenzene	**1.4**	ug/m3	1.3	0.17	1.34		03/22/17 00:12	95-63-6	
1,3,5-Trimethylbenzene	**1.1J**	ug/m3	1.3	0.25	1.34		03/22/17 00:12	108-67-8	
Vinyl chloride	**<0.26**	ug/m3	0.35	0.26	1.34		03/22/17 00:12	75-01-4	
m&p-Xylene	**2.7**	ug/m3	2.4	1.1	1.34		03/22/17 00:12	179601-23-1	
o-Xylene	**0.66J**	ug/m3	1.2	0.47	1.34		03/22/17 00:12	95-47-6	

Sample: VP-106_72_20170302DUP **Lab ID: 10381035020** Collected: 03/02/17 13:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**25.6**	ug/m3	4.2	1.5	1.75		03/22/17 00:43	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/22/17 00:43	107-05-1	
Benzene	**0.91**	ug/m3	0.57	0.21	1.75		03/22/17 00:43	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/22/17 00:43	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/22/17 00:43	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/22/17 00:43	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/22/17 00:43	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/22/17 00:43	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/22/17 00:43	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/22/17 00:43	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/22/17 00:43	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/22/17 00:43	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/22/17 00:43	75-00-3	
Chloroform	**3.5**	ug/m3	0.87	0.33	1.75		03/22/17 00:43	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/22/17 00:43	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/22/17 00:43	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/22/17 00:43	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/22/17 00:43	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/22/17 00:43	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/22/17 00:43	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-106_72_20170302DUP **Lab ID: 10381035020** Collected: 03/02/17 13:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/22/17 00:43	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/22/17 00:43	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/22/17 00:43	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/22/17 00:43	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/22/17 00:43	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/22/17 00:43	107-06-2	
1,1-Dichloroethene	**2.7**	ug/m3	1.4	0.42	1.75		03/22/17 00:43	75-35-4	
cis-1,2-Dichloroethene	**72.3**	ug/m3	1.4	0.43	1.75		03/22/17 00:43	156-59-2	
trans-1,2-Dichloroethene	**3.3**	ug/m3	1.4	0.67	1.75		03/22/17 00:43	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/22/17 00:43	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/22/17 00:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/22/17 00:43	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/22/17 00:43	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/22/17 00:43	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/22/17 00:43	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/22/17 00:43	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	1.8	0.33	1.75		03/22/17 00:43	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/22/17 00:43	87-68-3	
n-Hexane	**0.98J**	ug/m3	1.3	0.62	1.75		03/22/17 00:43	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/22/17 00:43	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/22/17 00:43	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/22/17 00:43	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/22/17 00:43	108-87-2	
Methylene Chloride	**<0.95**	ug/m3	6.2	0.95	1.75		03/22/17 00:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/22/17 00:43	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/22/17 00:43	1634-04-4	
2-Propanol	**2.9J**	ug/m3	4.4	0.42	1.75		03/22/17 00:43	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.34	1.75		03/22/17 00:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/22/17 00:43	79-34-5	
Tetrachloroethene	**552**	ug/m3	1.2	0.49	1.75		03/22/17 00:43	127-18-4	
Tetrachloroethene	**35.4**	ug/m3	1.2	0.49	1.75		03/23/17 06:10	127-18-4	
Toluene	**22.5**	ug/m3	1.3	0.27	1.75		03/22/17 00:43	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/22/17 00:43	120-82-1	
1,1,1-Trichloroethane	**1.5J**	ug/m3	1.9	0.43	1.75		03/22/17 00:43	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/22/17 00:43	79-00-5	
Trichloroethene	**1330**	ug/m3	0.96	0.48	1.75		03/22/17 00:43	79-01-6	
Trichloroethene	**124**	ug/m3	0.96	0.48	1.75		03/23/17 06:10	79-01-6	
Trichlorofluoromethane	**9.6**	ug/m3	2.0	0.23	1.75		03/22/17 00:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**82.7**	ug/m3	2.8	0.53	1.75		03/22/17 00:43	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.22	1.75		03/22/17 00:43	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/22/17 00:43	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/22/17 00:43	75-01-4	
m&p-Xylene	**2.1J**	ug/m3	3.1	1.4	1.75		03/22/17 00:43	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/22/17 00:43	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_10_20170302DUP **Lab ID: 10381035021** Collected: 03/02/17 12:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**17.9**	ug/m3	4.1	1.4	1.68		03/22/17 01:42	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/22/17 01:42	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/22/17 01:42	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/22/17 01:42	75-27-4	
Bromoform	**<1.5**	ug/m3	8.8	1.5	1.68		03/22/17 01:42	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/22/17 01:42	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/22/17 01:42	106-99-0	
2-Butanone (MEK)	**3.2J**	ug/m3	5.0	0.38	1.68		03/22/17 01:42	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/22/17 01:42	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/22/17 01:42	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/22/17 01:42	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/22/17 01:42	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/22/17 01:42	75-00-3	
Chloroform	**1.7**	ug/m3	0.83	0.32	1.68		03/22/17 01:42	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/22/17 01:42	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/22/17 01:42	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/22/17 01:42	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/22/17 01:42	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/22/17 01:42	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/22/17 01:42	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/22/17 01:42	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/22/17 01:42	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/22/17 01:42	106-46-7	
Dichlorodifluoromethane	**<0.81**	ug/m3	4.2	0.81	1.68		03/22/17 01:42	75-71-8	
1,1-Dichloroethane	**6.8**	ug/m3	1.4	0.26	1.68		03/22/17 01:42	75-34-3	
1,2-Dichloroethane	**0.46J**	ug/m3	0.69	0.34	1.68		03/22/17 01:42	107-06-2	
1,1-Dichloroethene	**14.1**	ug/m3	1.4	0.40	1.68		03/22/17 01:42	75-35-4	
cis-1,2-Dichloroethene	**1420**	ug/m3	1.4	0.41	1.68		03/22/17 01:42	156-59-2	
cis-1,2-Dichloroethene	**2770**	ug/m3	68.0	20.7	84		03/23/17 07:06	156-59-2	
trans-1,2-Dichloroethene	**4.8**	ug/m3	1.4	0.65	1.68		03/22/17 01:42	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/22/17 01:42	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/22/17 01:42	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/22/17 01:42	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/22/17 01:42	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/22/17 01:42	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/22/17 01:42	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/22/17 01:42	100-41-4	
4-Ethyltoluene	**1.4J**	ug/m3	1.7	0.32	1.68		03/22/17 01:42	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/22/17 01:42	87-68-3	
n-Hexane	**1.2**	ug/m3	1.2	0.60	1.68		03/22/17 01:42	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/22/17 01:42	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/22/17 01:42	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/22/17 01:42	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/22/17 01:42	108-87-2	
Methylene Chloride	**6.2**	ug/m3	5.9	0.91	1.68		03/22/17 01:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/22/17 01:42	108-10-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-2_10_20170302DUP **Lab ID: 10381035021** Collected: 03/02/17 12:14 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/22/17 01:42	1634-04-4	
2-Propanol	**<0.40**	ug/m3	4.2	0.40	1.68		03/22/17 01:42	67-63-0	
Styrene	**1.0J**	ug/m3	1.5	0.32	1.68		03/22/17 01:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	2.3	0.55	1.68		03/22/17 01:42	79-34-5	
Tetrachloroethene	**1090**	ug/m3	1.2	0.47	1.68		03/22/17 01:42	127-18-4	
Tetrachloroethene	**1780**	ug/m3	57.9	23.4	84		03/23/17 07:06	127-18-4	
Toluene	**1.3**	ug/m3	1.3	0.26	1.68		03/22/17 01:42	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/22/17 01:42	120-82-1	
1,1,1-Trichloroethane	**7.5**	ug/m3	1.9	0.41	1.68		03/22/17 01:42	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/22/17 01:42	79-00-5	
Trichloroethene	**271**	ug/m3	0.92	0.46	1.68		03/22/17 01:42	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	1.9	0.22	1.68		03/22/17 01:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.5J**	ug/m3	2.7	0.51	1.68		03/22/17 01:42	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.21	1.68		03/22/17 01:42	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.31	1.68		03/22/17 01:42	108-67-8	
Vinyl chloride	**8.2**	ug/m3	0.44	0.33	1.68		03/22/17 01:42	75-01-4	
m&p-Xylene	**1.6J**	ug/m3	3.0	1.3	1.68		03/22/17 01:42	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/22/17 01:42	95-47-6	

Sample: VP-1_30_20170302DUP **Lab ID: 10381035022** Collected: 03/02/17 12:16 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**8.7**	ug/m3	4.2	1.5	1.75		03/22/17 02:14	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/22/17 02:14	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/22/17 02:14	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/22/17 02:14	75-27-4	
Bromoform	**<1.6**	ug/m3	9.2	1.6	1.75		03/22/17 02:14	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/22/17 02:14	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/22/17 02:14	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/22/17 02:14	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/22/17 02:14	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/22/17 02:14	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/22/17 02:14	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/22/17 02:14	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/22/17 02:14	75-00-3	
Chloroform	**<0.33**	ug/m3	0.87	0.33	1.75		03/22/17 02:14	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/22/17 02:14	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/22/17 02:14	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/22/17 02:14	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/22/17 02:14	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/22/17 02:14	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/22/17 02:14	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Sample: VP-1_30_20170302DUP **Lab ID: 10381035022** Collected: 03/02/17 12:16 Received: 03/06/17 09:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/22/17 02:14	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/22/17 02:14	541-73-1	
1,4-Dichlorobenzene	**1.8J**	ug/m3	2.1	0.87	1.75		03/22/17 02:14	106-46-7	
Dichlorodifluoromethane	**<0.84**	ug/m3	4.4	0.84	1.75		03/22/17 02:14	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/22/17 02:14	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/22/17 02:14	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/22/17 02:14	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/22/17 02:14	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/22/17 02:14	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/22/17 02:14	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/22/17 02:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	1.6	0.46	1.75		03/22/17 02:14	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/22/17 02:14	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/22/17 02:14	306-83-2	CL
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/22/17 02:14	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/22/17 02:14	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/22/17 02:14	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/22/17 02:14	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/22/17 02:14	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/22/17 02:14	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/22/17 02:14	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/22/17 02:14	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/22/17 02:14	108-87-2	
Methylene Chloride	**3.2J**	ug/m3	6.2	0.95	1.75		03/22/17 02:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/22/17 02:14	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/22/17 02:14	1634-04-4	
2-Propanol	**2.6J**	ug/m3	4.4	0.42	1.75		03/22/17 02:14	67-63-0	
Styrene	**1.1J**	ug/m3	1.5	0.34	1.75		03/22/17 02:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	2.4	0.58	1.75		03/22/17 02:14	79-34-5	
Tetrachloroethene	**25.4**	ug/m3	1.2	0.49	1.75		03/22/17 02:14	127-18-4	
Toluene	**13.8**	ug/m3	1.3	0.27	1.75		03/22/17 02:14	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/22/17 02:14	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/22/17 02:14	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/22/17 02:14	79-00-5	
Trichloroethene	**193**	ug/m3	0.96	0.48	1.75		03/22/17 02:14	79-01-6	
Trichlorofluoromethane	**2.5**	ug/m3	2.0	0.23	1.75		03/22/17 02:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.4J**	ug/m3	2.8	0.53	1.75		03/22/17 02:14	76-13-1	
1,2,4-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.22	1.75		03/22/17 02:14	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.7	0.32	1.75		03/22/17 02:14	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/22/17 02:14	75-01-4	
m&p-Xylene	**2.0J**	ug/m3	3.1	1.4	1.75		03/22/17 02:14	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/22/17 02:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Attachment 3

Support Documentation

FIELD DUPLICATE PRECISION
LMC - GREAT NECK
SDG 10381035

SAMPLE	PARAMETER	RESULT (µg/m^3)	DUPLICATE SAMPLE	PARAMETER	RESULT (µg/m^3)	RPD (%)	DIFFERENCE	RL (µg/m^3)
VP-1_30_20170302	1,1,2-TRICHLOROTRIFLUOROETHANE	1.3 J	**VP-1_30_20170302DUP**	1,1,2-TRICHLOROTRIFLUOROETHANE	1.4 J	NA	0.1	2.8
	1,2,4-TRIMETHYLBENZENE	1.5 J		1,2,4-TRIMETHYLBENZENE	1.3 J	NA	0.2	1.7
	1,3,5-TRIMETHYLBENZENE	1.3 J		1,3,5-TRIMETHYLBENZENE	1.3 J	NA	0	1.7
	1,4-DICHLOROBENZENE	2.1 U		1,4-DICHLOROBENZENE	1.8 J	NA	0.3	2.1
	1-ETHYL-4-METHYL BENZENE	1.8		1-ETHYL-4-METHYL BENZENE	1.8 U	NA	0	1.8
	ACETONE	18.4		ACETONE	8.7	71.59	9.7	4.2
	BENZENE	0.52 J		BENZENE	0.57 U	NA	0.05	0.57
	DICHLORODIFLUOROMETHANE	1.2 J		DICHLORODIFLUOROMETHANE	4.4 U	NA	3.2	4.4
	HEXANE	17.1		HEXANE	1.3 U	NA	15.8	1.3
	ISOPROPANOL	2.9 J		ISOPROPANOL	2.6 J	NA	0.3	4.4
	M+P-XYLENES	2.3 J		M+P-XYLENES	2 J	NA	0.3	3.1
	METHYLENE CHLORIDE	170		METHYLENE CHLORIDE	3.2 J	NA	166.8	6.2
	STYRENE	1.2 J		STYRENE	1.1 J	NA	0.1	1.5
	TETRACHLOROETHENE	22.6		TETRACHLOROETHENE	25.4	11.67	2.8	1.2
	TOLUENE	14.2		TOLUENE	13.8	2.86	0.4	1.3
	TRICHLOROETHENE	176		TRICHLOROETHENE	193	9.21	17	0.96
	TRICHLOROFLUOROMETHANE	2.4		TRICHLOROFLUOROMETHANE	2.5	4.08	0.1	2

J - RESULT BELOW THE RL
U - NON-DETECT
QC: RPD > 50%
or DIFFERENCE > 2X RL IF ONE OR BOTH RESULTS < 2X RL

FIELD DUPLICATE PRECISION
LMC - GREAT NECK
SDG 10381035

SAMPLE	PARAMETER	RESULT (µg/m^3)		DUPLICATE SAMPLE	PARAMETER	RESULT (µg/m^3)		RPD (%)	DIFFERENCE	RL (µg/m^3)
VP-2_10_20170302	1,1,1-TRICHLOROETHANE	7.2		**VP-2_10_20170302DUP**	1,1,1-TRICHLOROETHANE	7.5		4.08	0.3	1.9
	1,1,2-TRICHLOROTRIFLUOROETHANE	1.4	J		1,1,2-TRICHLOROTRIFLUOROETHANE	1.5	J	NA	0.1	2.8
	1,1-DICHLOROETHANE	6.7			1,1-DICHLOROETHANE	6.8		1.48	0.1	1.4
	1,1-DICHLOROETHENE	13.5			1,1-DICHLOROETHENE	14.1		4.35	0.6	1.4
	1,2,4-TRIMETHYLBENZENE	1.2	J		1,2,4-TRIMETHYLBENZENE	1.3	J	NA	0.1	1.7
	1,2-DICHLOROETHANE		U		1,2-DICHLOROETHANE	0.46	J	NA	0.46	2.1
	1,3,5-TRIMETHYLBENZENE		U		1,3,5-TRIMETHYLBENZENE	1.3	J	NA	1.3	1.7
	1-ETHYL-4-METHYL BENZENE		U		1-ETHYL-4-METHYL BENZENE	1.4	J	NA	1.4	1.8
	2-BUTANONE		U		2-BUTANONE	3.2	J	NA	3.2	5.2
	2-HEXANONE	2.3	J		2-HEXANONE		U	NA	2.3	7.3
	ACETONE	5.7			ACETONE	17.9		103.39	12.2	4.2
	CHLOROFORM	1.7			CHLOROFORM	1.7		NA	0	0.87
	HEXANE	1.2	J		HEXANE	1.2		NA	0	1.3
	M+P-XYLENES		U		M+P-XYLENES	1.6	J	NA	1.6	3.1
	METHYLENE CHLORIDE	8.5			METHYLENE CHLORIDE	6.2		31.29	2.3	6.2
	STYRENE		U		STYRENE	1	J	NA	1	1.5
	TOLUENE	0.75	J		TOLUENE	1.3		NA	0.55	1.3
	TRANS-1,2-DICHLOROETHENE	4.7			TRANS-1,2-DICHLOROETHENE	4.8		2.11	0.1	1.4
	TRICHLOROETHENE	269			TRICHLOROETHENE	271		0.74	2	0.96
	TRICHLOROFLUOROMETHANE	1.6	J		TRICHLOROFLUOROMETHANE	1.7	J	NA	0.1	2
	VINYL CHLORIDE	7.9			VINYL CHLORIDE	8.2		3.73	0.3	0.46
	CIS-1,2-DICHLOROETHENE	3180			CIS-1,2-DICHLOROETHENE	2770		13.78	410	1.4
	TETRACHLOROETHENE	1930			TETRACHLOROETHENE	1780		8.09	150	1.2

J - RESULT BELOW THE RL
U - NON-DETECT
QC: RPD > 50%
or DIFFERENCE > 2X RL IF ONE OR BOTH RESULTS < 2X RL

FIELD DUPLICATE PRECISION
LMC - GREAT NECK
SDG 10381035

SAMPLE	PARAMETER	RESULT (µg/m^3)	DUPLICATE SAMPLE	PARAMETER	RESULT (µg/m^3)	RPD (%)	DIFFERENCE	RL (µg/m^3)
VP-106_72_20170302	1,1,1-TRICHLOROETHANE	1.5 J	**VP-106_72_20170302DUP**	1,1,1-TRICHLOROETHANE	1.5 J	NA	0	1.9
	1,1,2-TRICHLOROTRIFLUOROETHANE	78.9		1,1,2-TRICHLOROTRIFLUOROETHANE	82.7	4.70	3.8	2.8
	1,1-DICHLOROETHENE	2.7		1,1-DICHLOROETHENE	2.7	NA	0	1.4
	1,2,4-TRIMETHYLBENZENE	1.7		1,2,4-TRIMETHYLBENZENE	1.4 J	NA	0.3	1.7
	1,3,5-TRIMETHYLBENZENE	1.4 J		1,3,5-TRIMETHYLBENZENE	1.3 J	NA	0.1	1.7
	1-ETHYL-4-METHYL BENZENE	1.5 J		1-ETHYL-4-METHYL BENZENE	1.5 J	NA	0	1.8
	2-BUTANONE	3.8 J		2-BUTANONE	5.2 U	NA	1.4	5.2
	4-METHYL-2-PENTANONE	2.8 J		4-METHYL-2-PENTANONE	7.3 U	NA	4.5	7.3
	ACETONE	44.9		ACETONE	25.6	54.75	19.3	4.2
	BENZENE	1.1		BENZENE	0.91	NA	0.19	0.57
	CHLOROFORM	3.2		CHLOROFORM	3.5	8.96	0.3	0.87
	CIS-1,2-DICHLOROETHENE	69.1		CIS-1,2-DICHLOROETHENE	72.3	4.53	3.2	1.4
	CYCLOHEXANE	0.85 J		CYCLOHEXANE	1.2 U	NA	0.35	1.2
	HEXANE	9.8		HEXANE	0.98 J	NA	8.82	1.3
	ISOPROPANOL	10		ISOPROPANOL	2.9 J	NA	7.1	4.4
	M+P-XYLENES	2.7 J		M+P-XYLENES	2.1 J	NA	0.6	3.1
	METHYLENE CHLORIDE	71.4		METHYLENE CHLORIDE	6.2 U	NA	65.2	6.2
	STYRENE	1.3 J		STYRENE	1.1 J	NA	0.2	1.5
	TETRACHLOROETHENE	617		TETRACHLOROETHENE	552	11.12	65	1.2
	TOLUENE	27.5		TOLUENE	22.5	20.00	5	1.3
	TRANS-1,2-DICHLOROETHENE	3.3		TRANS-1,2-DICHLOROETHENE	3.3	0.00	0	1.4
	TRICHLOROETHENE	2230		TRICHLOROETHENE	1330	50.56	900	0.96
	TRICHLOROFLUOROMETHANE	9.6		TRICHLOROFLUOROMETHANE	9.6	0.00	0	2

J - RESULT BELOW THE RL
U - NON-DETECT
QC: RPD > 50%
or DIFFERENCE > 2X RL IF ONE OR BOTH RESULTS < 2X RL

10390035

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26217

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22 E. SUITE 104C
WHITEHOUSE STATION, NJ 08889
Email To: DALLAS.MELCHIOR@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELCHIOR
Copy To:
Purchase Order No.:
Project Name: LIRR GREAT NECK
Project Number: 117-0507044

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☒ mg/m³ ☐ PPBV ☐ PPMV ☐ Other ☐

Report Level II. ☐ III. ☐ IV. ☐ Other ☐

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15 ☆	TO15 Short List*	Pace Lab ID
1	VP-1_5_20170302	6LC		3/2/17	0835	3/2/17	1235	-30	-8	4666	03078							X			001
2	VP-1_10_20170302				0835		1235	-30	-8	2308	03678							X			002
3	VP-1_20_20170302				0835		1225	-29	-8	7355	02622							X			003
4	VP-1_30_20170302				0835		1216	-29	-7	2128	03555							X			004
5	VP-2_5_20170302				0816		1200	-29	-8	2719	03554							X			005
6	VP-2_10_20170302				0816		1214	-30	-9.5	1616	16148							X			006
7	VP-2_20_20170302				0816		1205	-30	-8	2705	00045							X			007
8	VP-2_30_20170302				0816		1201	-30	-8	2658	03558							X			008
9	VP-4_5_20170302				0755		1122	-28	-8	0258	10854							X			009
10	VP-4_10_20170302				0755		1128	-28	-8	2874	00054							X			010
11	VP-4_20_20170302				0755		1140	-30	-8	0638	08655							X			011
12	VP-4_30_20170302				0755		1122	-26	-8	2061	02555							X			012

Comments:
☆ MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	3/3/17	12:00		3/3/17	800
	3/3/17	1330	FEDEX	3/6/17	950

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: J. BULK, A. KELLY, D. BROCKERHOFF
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 3/2/17

SAMPLE CONDITIONS

	Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

ORIGINAL

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26218

Section A Required Client Information:

Company: TEXAS TECH
Address: 295 RT 22 E. SUITE 10-E
WHITEHOUSE STATION, NJ
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DARIN MELOTT
Copy To:
Purchase Order No.:
Project Name: LONG GREEN NECK
Project Number: 1172058764

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other____

Location of Sampling by State: NY

Reporting Units: ug/m³ ✓ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other____

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-106_5_20170302	6LC		3/2/17	0910	3/2/17	1300	-30	-7.5	2504	01B2							X			013
2	VP-106_11_20170302				0910		1249	-29	-8	0969	0053							X			014
3	VP-106_19.5_20170302				0910		1279	-28	-7	1904	0056							X			015
4	VP-106_28_20170302				0910		1215	-29	-9	1632	0195							X			016
5	VP-106_56_20170302				0910		1306	-30	-8	9504	0091							X			017
6	VP-106_72_20170302				0910		1314	-29	-7.5	1056	0133							X			018
7	VP-106_84_20170302				0910		1318	-29	-8	2810	0035							X			019
8	VP-106_72_20170302DUP				0910		1314	-30	-8.5	2164	0039							X			020
9	VP-2_10_20170302DUP				0816		1219	-30	-7	1072	1037							X			021
10	VP-1_30_20170302DUP	↓		↓	0835	↓	~~0835~~ 1216	-30	-8.5	2755	0606							X			022
11																					
12																					

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	3/3/17	12:00	[signature]	3/3/17	1200
[signature]	3/3/17	1330	[signature]	3/6/17	950

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Burk, D. Kelly, D. Brockhoff
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 3/2/17

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: TetraTech

Project #: WO#: 10381035

Courier: [X] Fed Ex [ ] UPS [ ] Speedee [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: 778568307981, 7503, 7570, 8267, 7415, 7617

Custody Seal on Cooler/Box Present? [ ] Yes [X] No Seals Intact? [ ] Yes [X] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Tin Can [ ] Other: Temp Blank rec: [ ] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): + Corrected Temp (°C): + Thermom. Used: [ ] B88A912167504 [ ] B88A0143310098 [ ] 151401163 [ ] 151401164

Temp should be above freezing to 6°C Correction Factor: 1 Date & Initials of Person Examining Contents: DR 3/7/17

Type of ice Received [ ] Blue [ ] Wet [X] None

				Comments:
Chain of Custody Present?	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	[ ] N/A	3.
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	[ ] N/A	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	[ ] N/A	7.
Sufficient Volume?	[X] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used?	[X] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used?	[X] Yes	[ ] No	[ ] N/A	
Containers Intact?	[X] Yes	[ ] No	[ ] N/A	10.
Media: Air Can Airbag Filter TDT Passive				11.
Sample Labels Match COC?	[X] Yes	[ ] No	[ ] N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Boberg **Date:** 3/8/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Date: March 24, 2017

VP-1_5_20170302 (Lab ID: 10381035001)

- 1,2-Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-1_10_2017032 (Lab ID: 10381035002)

- 1,2-Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-1_20_20170302 (Lab ID: 10381035003)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-1_30_20170302 (Lab ID: 10381035004)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-2_5_20170302 (Lab ID: 10381035005)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-2_10_20170302 (Lab ID: 10381035006)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-2_20_20170302 (Lab ID: 10381035007)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-2_30_20170302 (Lab ID: 10381035008)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-4_5_20170302 (Lab ID: 10381035009)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-4_10_20170302 (Lab ID: 10381035010)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-4_20_20170302 (Lab ID: 10381035011)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-4_30_20170302 (Lab ID: 10381035012)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_5_20170302 (Lab ID: 10381035013)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_11_20170302 (Lab ID: 10381035014)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_19.5_20170302 (Lab ID: 10381035015)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_28_20170302 (Lab ID: 10381035016)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_56_20170302 (Lab ID: 10381035017)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Date: March 24, 2017

VP-106_72_20170302 (Lab ID: 10381035018)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_84_20170302 (Lab ID: 10381035019)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-106_72_20170302DUP (Lab ID: 10381035020)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-2_10_20170302DUP (Lab ID: 10381035021)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-1_30_20170302DUP (Lab ID: 10381035022)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 24, 2017

General Information:
22 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 464711

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- LCS (Lab ID: 2540990)
  - Dibromochloromethane

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
- LCS (Lab ID: 2540990)
  - Freon 123
- VP-1_10_2017032 (Lab ID: 10381035002)
  - Freon 123
- VP-1_5_20170302 (Lab ID: 10381035001)
  - Freon 123

QC Batch: 464895

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- LCS (Lab ID: 2541631)
  - Dibromochloromethane

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
- BLANK (Lab ID: 2541630)
  - Freon 123
- DUP (Lab ID: 2542896)
  - Freon 123
- LCS (Lab ID: 2541631)
  - Freon 123
- VP-106_11_20170302 (Lab ID: 10381035014)
  - Freon 123
- VP-106_19.5_20170302 (Lab ID: 10381035015)
  - Freon 123
- VP-106_28_20170302 (Lab ID: 10381035016)
  - Freon 123
- VP-106_56_20170302 (Lab ID: 10381035017)
  - Freon 123
- VP-106_5_20170302 (Lab ID: 10381035013)

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 24, 2017

QC Batch: 464895

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- Freon 123
- VP-106_72_20170302 (Lab ID: 10381035018)
  - Freon 123
- VP-106_72_20170302DUP (Lab ID: 10381035020)
  - Freon 123
- VP-106_84_20170302 (Lab ID: 10381035019)
  - Freon 123
- VP-1_20_20170302 (Lab ID: 10381035003)
  - Freon 123
- VP-1_30_20170302 (Lab ID: 10381035004)
  - Freon 123
- VP-1_30_20170302DUP (Lab ID: 10381035022)
  - Freon 123
- VP-2_10_20170302 (Lab ID: 10381035006)
  - Freon 123
- VP-2_10_20170302DUP (Lab ID: 10381035021)
  - Freon 123
- VP-2_20_20170302 (Lab ID: 10381035007)
  - Freon 123
- VP-2_30_20170302 (Lab ID: 10381035008)
  - Freon 123
- VP-2_5_20170302 (Lab ID: 10381035005)
  - Freon 123
- VP-4_10_20170302 (Lab ID: 10381035010)
  - Freon 123
- VP-4_20_20170302 (Lab ID: 10381035011)
  - Freon 123
- VP-4_30_20170302 (Lab ID: 10381035012)
  - Freon 123
- VP-4_5_20170302 (Lab ID: 10381035009)
  - Freon 123

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 24, 2017

Additional Comments:

Analyte Comments:

QC Batch: 464711

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2540990)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

QC Batch: 464895

A3: The sample was analyzed by serial dilution.

- VP-2_10_20170302 (Lab ID: 10381035006)
  - cis-1,2-Dichloroethene

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10381035001
[1] 1,2-Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035002
[1] 1,2-Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035003
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035004
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035005
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035006
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035007
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035008
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035009
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035010
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

SAMPLE QUALIFIERS

Sample: 10381035011
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035012
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035013
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035014
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035015
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035016
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035017
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035018
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035019
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035020
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035021
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381035022
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

ANALYTE QUALIFIERS

1M	This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
A3	The sample was analyzed by serial dilution.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10381035001	**VP-1_5_20170302**	Air	03/02/17 12:35	03/06/17 09:50
10381035002	**VP-1_10_2017032**	Air	03/02/17 12:35	03/06/17 09:50
10381035003	**VP-1_20_20170302**	Air	03/02/17 12:25	03/06/17 09:50
10381035004	**VP-1_30_20170302**	Air	03/02/17 12:16	03/06/17 09:50
10381035005	**VP-2_5_20170302**	Air	03/02/17 12:00	03/06/17 09:50
10381035006	**VP-2_10_20170302**	Air	03/02/17 12:14	03/06/17 09:50
10381035007	**VP-2_20_20170302**	Air	03/02/17 12:05	03/06/17 09:50
10381035008	**VP-2_30_20170302**	Air	03/02/17 12:01	03/06/17 09:50
10381035009	**VP-4_5_20170302**	Air	03/02/17 11:22	03/06/17 09:50
10381035010	**VP-4_10_20170302**	Air	03/02/17 11:28	03/06/17 09:50
10381035011	**VP-4_20_20170302**	Air	03/02/17 11:40	03/06/17 09:50
10381035012	**VP-4_30_20170302**	Air	03/02/17 11:22	03/06/17 09:50
10381035013	**VP-106_5_20170302**	Air	03/02/17 13:00	03/06/17 09:50
10381035014	**VP-106_11_20170302**	Air	03/02/17 12:49	03/06/17 09:50
10381035015	**VP-106_19.5_20170302**	Air	03/02/17 12:49	03/06/17 09:50
10381035016	**VP-106_28_20170302**	Air	03/02/17 12:15	03/06/17 09:50
10381035017	**VP-106_56_20170302**	Air	03/02/17 13:06	03/06/17 09:50
10381035018	**VP-106_72_20170302**	Air	03/02/17 13:14	03/06/17 09:50
10381035019	**VP-106_84_20170302**	Air	03/02/17 13:18	03/06/17 09:50
10381035020	**VP-106_72_20170302DUP**	Air	03/02/17 13:14	03/06/17 09:50
10381035021	**VP-2_10_20170302DUP**	Air	03/02/17 12:14	03/06/17 09:50
10381035022	**VP-1_30_20170302DUP**	Air	03/02/17 12:16	03/06/17 09:50

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/20/2017

Lab File ID (Standard): 07902.D Time Analyzed: 09:10

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
05	24 HOUR STANDARD	6156400	5.613	4212056	8.642
05	UPPER LIMIT	12312800	6.113	8424112	9.142
05	LOWER LIMIT	3078200	5.113	2106028	8.142
05	EPA SAMPLE NO.				
05	LCS for HBN 464711 [AIR/27953]	6156400	5.613	4212056	8.642
05	BLANK for HBN 464711 [AIR/2795	6431450	5.600	4168665	8.639
05	VP-1 5 20170302	6181832	5.601	4037338	8.639
05	VP-1 10 2017032	6707131	5.600	4412958	8.639
05	VP-1_10_2017032(2530864DUP)	6640331	5.601	4330567	8.639

UPPER LIMIT 8618960 5896878
LOWER LIMIT 369840 2527234

QC = +/- 40% OF 24 HOUR STANDARD

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

FORM VIII VOA

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/21/2017

Lab File ID (Standard): 08002.D Time Analyzed: 09:03

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
23	24 HOUR STANDARD	6291578	5.613	4331960	8.645
23	UPPER LIMIT	12583156	6.113	8663920	9.145
23	LOWER LIMIT	3145789	5.113	2165980	8.145
23	EPA SAMPLE NO.				
23	LCS for HBN 464895 [AIR/27967]	6291578	5.613	4331960	8.645
23	BLANK for HBN 464895 [AIR/2796	6396925	5.600	4172091	8.639
23	VP-1_20_20170302	6125177	5.604	3918441	8.639
23	VP-1_30_20170302	6127235	5.604	3955480	8.639
23	VP-2_5_20170302	6478475	5.600	4209127	8.642
23	VP-2_10_20170302	6432640	5.610	4141997	8.642
23	VP-2_20_20170302	6394778	5.604	4193193	8.639
23	VP-2_30_20170302	6442856	5.607	4177610	8.642
23	VP-4_5_20170302	6367477	5.594	4124874	8.639
23	VP-4_10_20170302	6387675	5.601	4143374	8.642
23	VP-4_20_20170302	6439684	5.604	4173795	8.639
23	VP-4_30_20170302	6427566	5.604	4092039	8.639
23	VP-106_5_20170302	6464450	5.601	4141004	8.639
23	VP-106_11_20170302	6459444	5.597	4083427	8.639
23	VP-106_11_20170302(2530885DUP)	6265365	5.601	4028688	8.639
23	VP-106_19.5_20170302	6205373	5.597	4082658	8.639
23	VP-106_28_20170302	6121968	5.601	3885016	8.639
23	VP-106_56_20170302	6263050	5.610	3996494	8.642
23	VP-106_72_20170302	6182541	5.610	3926899	8.639
23	VP-106_84_20170302	6158683	5.610	3916588	8.639
23	VP-106_72_20170302DUP	6296792	5.610	4038468	8.642
23	VP-2_10_20170302DUP	6202279	5.610	3990182	8.642
23	VP-1_30_20170302DUP	6154790	5.597	3982400	8.639
	UPPER LIMIT	8808209		6064744	
	LOWER LIMIT	3774947		2599176	

QC = +/- 40% OF 24 HOUR STANDARD

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/22/2017

Lab File ID (Standard): 08102.D Time Analyzed: 09:05

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
08	24 HOUR STANDARD	5978656	5.613	4042014	8.645
08	UPPER LIMIT	11957312	6.113	8084028	9.145
08	LOWER LIMIT	2989328	5.113	2021007	8.145
08	EPA SAMPLE NO.				
08	VP-1_20_20170302	6210937	5.604	3981420	8.639
08	VP-106_28_20170302	6068289	5.601	3894820	8.639
08	VP-106_84_20170302	6087590	5.604	3810739	8.639
08	VP-106_56_20170302	5966432	5.604	3782408	8.639
08	VP-106_72_20170302	5951381	5.604	3738270	8.642
08	VP-106_72_20170302DUP	5977432	5.604	3753067	8.642
08	VP-2_10_20170302	5794164	5.604	3632200	8.639
08	VP-2_10_20170302DUP	5963842	5.604	3691831	8.639
	UPPER LIMIT	8370118		5658820	
	LOWER LIMIT	358194		2425208	

QC = +/- 40% OF 24 HOUR STANDARD

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 464711 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 07906_27953.D Lab Sample ID: 2540989
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 11:10
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-1_5_20170302	10381035001	07933.D	02:17
02	VP-1_10_2017032	10381035002	07935.D	03:21

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

QC Batch: 464711 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381035001, 10381035002

METHOD BLANK: 2540989 Matrix: Air
Associated Lab Samples: 10381035001, 10381035002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/20/17 11:10	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	1.4	0.33	03/20/17 11:10	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/20/17 11:10	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/20/17 11:10	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/20/17 11:10	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/20/17 11:10	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/20/17 11:10	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/20/17 11:10	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/20/17 11:10	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/20/17 11:10	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/20/17 11:10	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/20/17 11:10	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/20/17 11:10	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/20/17 11:10	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/20/17 11:10	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/20/17 11:10	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/20/17 11:10	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/20/17 11:10	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/20/17 11:10	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/20/17 11:10	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/20/17 11:10	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/20/17 11:10	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/20/17 11:10	
Acetone	ug/m3	<0.83	2.4	0.83	03/20/17 11:10	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/20/17 11:10	
Benzene	ug/m3	<0.12	0.32	0.12	03/20/17 11:10	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/20/17 11:10	
Bromoform	ug/m3	<0.90	5.3	0.90	03/20/17 11:10	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/20/17 11:10	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/20/17 11:10	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/20/17 11:10	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/20/17 11:10	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/20/17 11:10	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/20/17 11:10	
Chloroform	ug/m3	<0.19	0.50	0.19	03/20/17 11:10	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/20/17 11:10	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/20/17 11:10	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/20/17 11:10	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/20/17 11:10	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/20/17 11:10	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/20/17 11:10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

METHOD BLANK: 2540989 Matrix: Air
Associated Lab Samples: 10381035001, 10381035002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	2.5	0.48	03/20/17 11:10	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/20/17 11:10	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/20/17 11:10	
Freon 123	ug/m3	<3.2	3.2	3.2	03/20/17 11:10	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/20/17 11:10	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/20/17 11:10	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/20/17 11:10	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/20/17 11:10	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/20/17 11:10	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/20/17 11:10	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/20/17 11:10	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/20/17 11:10	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/20/17 11:10	
Styrene	ug/m3	<0.19	0.87	0.19	03/20/17 11:10	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/20/17 11:10	
Toluene	ug/m3	<0.15	0.77	0.15	03/20/17 11:10	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/20/17 11:10	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/20/17 11:10	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/20/17 11:10	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/20/17 11:10	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/20/17 11:10	

LABORATORY CONTROL SAMPLE: 2540990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.8	108	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.4	109	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	59.9	108	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	69.9	90	75-128	
1,1-Dichloroethane	ug/m3	41.1	39.5	96	75-127	
1,1-Dichloroethene	ug/m3	40.3	38.6	96	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	86.7	115	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	55.5	111	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	105	107		1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	93.8	120	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	69.7	114	75-139	
1,2-Dichloroethane	ug/m3	41.1	42.6	104	75-130	
1,2-Dichloropropane	ug/m3	47	50.8	108	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	55.1	110	75-133	
1,3-Butadiene	ug/m3	22.5	21.0	93	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	67.6	111	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	67.0	110	75-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	42.5	116	65-149	
2-Butanone (MEK)	ug/m3	30	26.2	88	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

LABORATORY CONTROL SAMPLE: 2540990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	114	110	75-138	
2-Propanol	ug/m3	125	136	109	75-127	
4-Ethyltoluene	ug/m3	50	55.1	110	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	120	115	75-130	
Acetone	ug/m3	121	113	94	64-129	
Allyl chloride	ug/m3	79.5	75.6	95	60-147	
Benzene	ug/m3	32.5	34.2	105	75-129	
Bromodichloromethane	ug/m3	68.1	77.4	114	75-134	
Bromoform	ug/m3	105	114	108	75-150	
Bromomethane	ug/m3	39.5	37.2	94	75-127	
Carbon disulfide	ug/m3	31.6	31.4	99	75-134	
Carbon tetrachloride	ug/m3	64	72.0	113	68-150	
Chlorobenzene	ug/m3	46.8	55.0	118	75-132	
Chlorodifluoromethane	ug/m3	36	37.0	103	67-134	
Chloroethane	ug/m3	26.8	25.3	94	75-132	
Chloroform	ug/m3	49.6	52.3	105	75-125	
Chloromethane	ug/m3	21	21.8	104	75-126	
Chloropentafluoroethane	ug/m3	64.2	48.5	75		1M
cis-1,2-Dichloroethene	ug/m3	40.3	43.7	108	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	55.5	120	75-137	
Cyclohexane	ug/m3	35	38.1	109	75-126	
Dibromochloromethane	ug/m3	86.6	115	133	75-144	CH
Dichlorodifluoromethane	ug/m3	50.3	59.2	118	75-129	
Dichlorotetrafluoroethane	ug/m3	71	70.3	99	75-125	
Ethylbenzene	ug/m3	44.1	55.3	125	75-134	
Freon 123	ug/m3	63.6	26.9	42		1M,CL
Hexachloro-1,3-butadiene	ug/m3	108	112	104	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	60.6	121	75-140	
m&p-Xylene	ug/m3	88.3	97.5	110	75-129	
Methyl acetate	ug/m3	30.8	29.5	96		1M
Methyl-tert-butyl ether	ug/m3	91.6	87.1	95	66-148	
Methylcyclohexane	ug/m3	40.8	45.5	111	73-137	
Methylene Chloride	ug/m3	177	149	84	67-133	
n-Hexane	ug/m3	35.8	32.3	90	67-132	
o-Xylene	ug/m3	44.1	55.2	125	75-129	
Styrene	ug/m3	43.3	47.0	108	75-139	
Tetrachloroethene	ug/m3	68.9	79.3	115	75-129	
Toluene	ug/m3	38.3	41.7	109	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	38.0	94	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	49.2	107	75-142	
Trichloroethene	ug/m3	54.6	58.4	107	75-128	
Trichlorofluoromethane	ug/m3	57.1	53.3	93	75-127	
Vinyl chloride	ug/m3	26	24.7	95	75-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

SAMPLE DUPLICATE: 2541459

Parameter	Units	10381035002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.55	<0.55		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.51	<0.51		25	
1,1-Dichloroethane	ug/m3	<0.26	<0.26		25	
1,1-Dichloroethene	ug/m3	<0.40	<0.40		25	
1,2,4-Trichlorobenzene	ug/m3	<1.5	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	1.3J	1.2J		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.2	<8.2		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.3	<1.3		25	
1,2-Dichlorobenzene	ug/m3	<0.86	<0.86		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.45	<0.45		25	
1,3,5-Trimethylbenzene	ug/m3	<0.31	<0.31		25	
1,3-Butadiene	ug/m3	<0.30	<0.30		25	
1,3-Dichlorobenzene	ug/m3	<0.89	<0.89		25	
1,4-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.59	<0.59		25	
2-Butanone (MEK)	ug/m3	<0.38	<0.38		25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	<0.40	<0.40		25	
4-Ethyltoluene	ug/m3	1.4J	<0.32		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	6.8	6.9	2	25	
Allyl chloride	ug/m3	<0.38	<0.38		25	
Benzene	ug/m3	<0.20	<0.20		25	
Bromodichloromethane	ug/m3	<0.33	<0.33		25	
Bromoform	ug/m3	<1.5	<1.5		25	
Bromomethane	ug/m3	<0.52	<0.52		25	
Carbon disulfide	ug/m3	<0.17	<0.17		25	
Carbon tetrachloride	ug/m3	<0.32	<0.32		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	1.2	1.2J		25	
Chloroethane	ug/m3	<0.33	<0.33		25	
Chloroform	ug/m3	0.80J	0.77J		25	
Chloromethane	ug/m3	<0.18	<0.18		25	
Chloropentafluoroethane	ug/m3	<5.4	<5.4		25	
cis-1,2-Dichloroethene	ug/m3	<0.41	<0.41		25	
cis-1,3-Dichloropropene	ug/m3	<0.62	<0.62		25	
Cyclohexane	ug/m3	<0.53	<0.53		25	
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	<0.81	<0.81		25	
Dichlorotetrafluoroethane	ug/m3	<0.52	<0.52		25	
Ethylbenzene	ug/m3	<0.71	<0.71		25	
Freon 123	ug/m3	<5.3	<5.3		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.23	<0.23		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

SAMPLE DUPLICATE: 2541459

Parameter	Units	10381035002 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	1.6J	1.6J		25	
Methyl acetate	ug/m3	<2.6	<2.6		25	
Methyl-tert-butyl ether	ug/m3	<0.51	<0.51		25	
Methylcyclohexane	ug/m3	<0.41	<0.41		25	
Methylene Chloride	ug/m3	<0.91	<0.91		25	
n-Hexane	ug/m3	<0.60	<0.60		25	
o-Xylene	ug/m3	<0.59	<0.59		25	
Styrene	ug/m3	<0.32	1.0J		25	
Tetrachloroethene	ug/m3	<0.47	<0.47		25	
Toluene	ug/m3	0.88J	0.86J		25	
trans-1,2-Dichloroethene	ug/m3	<0.65	<0.65		25	
trans-1,3-Dichloropropene	ug/m3	<0.44	<0.44		25	
Trichloroethene	ug/m3	4.0	4.1	2	25	
Trichlorofluoromethane	ug/m3	1.2J	1.2J		25	
Vinyl chloride	ug/m3	<0.33	<0.33		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 464895 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 08012_27967.D Lab Sample ID: 2541630
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 14:07
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-1_20_20170302	10381035003	08013.D	14:40
02	VP-1_30_20170302	10381035004	08014.D	15:13
03	VP-2_5_20170302	10381035005	08015.D	15:44
04	VP-2_10_20170302	10381035006	08016.D	16:16
05	VP-2_20_20170302	10381035007	08017.D	16:47
06	VP-2_30_20170302	10381035008	08018.D	17:19
07	VP-4_5_20170302	10381035009	08019.D	17:50
08	VP-4_10_20170302	10381035010	08020.D	18:21
09	VP-4_20_20170302	10381035011	08021.D	18:53
10	VP-4_30_20170302	10381035012	08022.D	19:25
11	VP-106_5_20170302	10381035013	08023.D	19:57
12	VP-106_11_20170302	10381035014	08024.D	20:28
13	VP-106_19.5_20170302	10381035015	08026.D	21:31
14	VP-106_28_20170302	10381035016	08028.D	22:35
15	VP-106_56_20170302	10381035017	08029.D	23:06
16	VP-106_72_20170302	10381035018	08030.D	23:39
17	VP-106_84_20170302	10381035019	08031.D	00:12
18	VP-106_72_20170302DUP	10381035020	08032.D	00:43
19	VP-2_10_20170302DUP	10381035021	08034.D	01:42
20	VP-1_30_20170302DUP	10381035022	08035.D	02:14

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

QC Batch: 464895 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381035003, 10381035004, 10381035005, 10381035006, 10381035007, 10381035008, 10381035009, 10381035010, 10381035011, 10381035012, 10381035013, 10381035014, 10381035015, 10381035016, 10381035017, 10381035018, 10381035019, 10381035020, 10381035021, 10381035022

METHOD BLANK: 2541630 Matrix: Air
Associated Lab Samples: 10381035003, 10381035004, 10381035005, 10381035006, 10381035007, 10381035008, 10381035009, 10381035010, 10381035011, 10381035012, 10381035013, 10381035014, 10381035015, 10381035016, 10381035017, 10381035018, 10381035019, 10381035020, 10381035021, 10381035022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/21/17 14:07	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	1.4	0.33	03/21/17 14:07	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/21/17 14:07	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/21/17 14:07	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/21/17 14:07	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/21/17 14:07	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/21/17 14:07	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/21/17 14:07	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/21/17 14:07	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/21/17 14:07	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/21/17 14:07	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/21/17 14:07	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/21/17 14:07	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/21/17 14:07	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/21/17 14:07	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/21/17 14:07	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/21/17 14:07	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/21/17 14:07	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/21/17 14:07	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/21/17 14:07	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/21/17 14:07	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/21/17 14:07	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/21/17 14:07	
Acetone	ug/m3	<0.83	2.4	0.83	03/21/17 14:07	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/21/17 14:07	
Benzene	ug/m3	<0.12	0.32	0.12	03/21/17 14:07	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/21/17 14:07	
Bromoform	ug/m3	<0.90	5.3	0.90	03/21/17 14:07	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/21/17 14:07	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/21/17 14:07	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/21/17 14:07	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/21/17 14:07	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/21/17 14:07	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/21/17 14:07	
Chloroform	ug/m3	<0.19	0.50	0.19	03/21/17 14:07	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/21/17 14:07	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/21/17 14:07	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/21/17 14:07	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

METHOD BLANK: 2541630 Matrix: Air

Associated Lab Samples: 10381035003, 10381035004, 10381035005, 10381035006, 10381035007, 10381035008, 10381035009, 10381035010, 10381035011, 10381035012, 10381035013, 10381035014, 10381035015, 10381035016, 10381035017, 10381035018, 10381035019, 10381035020, 10381035021, 10381035022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/21/17 14:07	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/21/17 14:07	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/21/17 14:07	
Dichlorodifluoromethane	ug/m3	<0.48	2.5	0.48	03/21/17 14:07	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/21/17 14:07	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/21/17 14:07	
Freon 123	ug/m3	<3.2	3.2	3.2	03/21/17 14:07	CL
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/21/17 14:07	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/21/17 14:07	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/21/17 14:07	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/21/17 14:07	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/21/17 14:07	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/21/17 14:07	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/21/17 14:07	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/21/17 14:07	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/21/17 14:07	
Styrene	ug/m3	<0.19	0.87	0.19	03/21/17 14:07	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/21/17 14:07	
Toluene	ug/m3	<0.15	0.77	0.15	03/21/17 14:07	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/21/17 14:07	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/21/17 14:07	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/21/17 14:07	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/21/17 14:07	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/21/17 14:07	

LABORATORY CONTROL SAMPLE: 2541631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.1	107	75-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	75.9	109	75-125	
1,1,2-Trichloroethane	ug/m3	55.5	61.4	111	75-127	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	76.6	98	75-128	
1,1-Dichloroethane	ug/m3	41.1	41.9	102	75-127	
1,1-Dichloroethene	ug/m3	40.3	41.2	102	73-127	
1,2,4-Trichlorobenzene	ug/m3	75.4	84.5	112	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	55.7	111	75-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	103	105		
1,2-Dibromoethane (EDB)	ug/m3	78.1	95.2	122	75-128	
1,2-Dichlorobenzene	ug/m3	61.1	70.3	115	75-139	
1,2-Dichloroethane	ug/m3	41.1	41.9	102	75-130	
1,2-Dichloropropane	ug/m3	47	51.5	110	75-131	
1,3,5-Trimethylbenzene	ug/m3	50	54.7	109	75-133	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

LABORATORY CONTROL SAMPLE: 2541631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Butadiene	ug/m3	22.5	22.1	98	75-130	
1,3-Dichlorobenzene	ug/m3	61.1	67.3	110	75-144	
1,4-Dichlorobenzene	ug/m3	61.1	67.0	110	75-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	42.8	117	65-149	
2-Butanone (MEK)	ug/m3	30	28.6	95	75-128	
2-Hexanone	ug/m3	104	115	110	75-138	
2-Propanol	ug/m3	125	143	115	75-127	
4-Ethyltoluene	ug/m3	50	54.4	109	75-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	123	118	75-130	
Acetone	ug/m3	121	115	96	64-129	
Allyl chloride	ug/m3	79.5	83.9	105	60-147	
Benzene	ug/m3	32.5	34.6	106	75-129	
Bromodichloromethane	ug/m3	68.1	77.1	113	75-134	
Bromoform	ug/m3	105	115	109	75-150	
Bromomethane	ug/m3	39.5	39.8	101	75-127	
Carbon disulfide	ug/m3	31.6	34.2	108	75-134	
Carbon tetrachloride	ug/m3	64	72.2	113	68-150	
Chlorobenzene	ug/m3	46.8	56.1	120	75-132	
Chlorodifluoromethane	ug/m3	36	35.6	99	67-134	
Chloroethane	ug/m3	26.8	26.9	100	75-132	
Chloroform	ug/m3	49.6	51.6	104	75-125	
Chloromethane	ug/m3	21	21.5	103	75-126	
Chloropentafluoroethane	ug/m3	64.2	53.3	83		
cis-1,2-Dichloroethene	ug/m3	40.3	40.3	100	75-133	
cis-1,3-Dichloropropene	ug/m3	46.1	56.7	123	75-137	
Cyclohexane	ug/m3	35	38.4	110	75-126	
Dibromochloromethane	ug/m3	86.6	115	133	75-144	CH
Dichlorodifluoromethane	ug/m3	50.3	57.2	114	75-129	
Dichlorotetrafluoroethane	ug/m3	71	70.2	99	75-125	
Ethylbenzene	ug/m3	44.1	55.5	126	75-134	
Freon 123	ug/m3	63.6	31.3	49		CL
Hexachloro-1,3-butadiene	ug/m3	108	106	98	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	60.1	120	75-140	
m&p-Xylene	ug/m3	88.3	97.6	111	75-129	
Methyl acetate	ug/m3	30.8	31.1	101		
Methyl-tert-butyl ether	ug/m3	91.6	93.7	102	66-148	
Methylcyclohexane	ug/m3	40.8	46.8	115	73-137	
Methylene Chloride	ug/m3	177	158	90	67-133	
n-Hexane	ug/m3	35.8	34.3	96	67-132	
o-Xylene	ug/m3	44.1	54.9	124	75-129	
Styrene	ug/m3	43.3	47.1	109	75-139	
Tetrachloroethene	ug/m3	68.9	80.0	116	75-129	
Toluene	ug/m3	38.3	42.9	112	75-129	
trans-1,2-Dichloroethene	ug/m3	40.3	41.3	103	75-131	
trans-1,3-Dichloropropene	ug/m3	46.1	49.5	107	75-142	
Trichloroethene	ug/m3	54.6	59.6	109	75-128	
Trichlorofluoromethane	ug/m3	57.1	56.8	99	75-127	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

LABORATORY CONTROL SAMPLE: 2541631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/m3	26	25.9	100	75-128	

SAMPLE DUPLICATE: 2542896

Parameter	Units	10381035014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.55	<0.55		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.51	0.72J		25	
1,1-Dichloroethane	ug/m3	<0.26	<0.26		25	
1,1-Dichloroethene	ug/m3	<0.40	<0.40		25	
1,2,4-Trichlorobenzene	ug/m3	<1.5	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	1.2J	1.2J		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.2	<8.2		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.3	<1.3		25	
1,2-Dichlorobenzene	ug/m3	<0.86	<0.86		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.45	<0.45		25	
1,3,5-Trimethylbenzene	ug/m3	<0.31	<0.31		25	
1,3-Butadiene	ug/m3	<0.30	<0.30		25	
1,3-Dichlorobenzene	ug/m3	<0.89	<0.89		25	
1,4-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.59	<0.59		25	
2-Butanone (MEK)	ug/m3	6.1	6.5	7	25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	<0.40	<0.40		25	
4-Ethyltoluene	ug/m3	<0.32	<0.32		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	7.9	8.2	4	25	
Allyl chloride	ug/m3	<0.38	<0.38		25	
Benzene	ug/m3	<0.20	<0.20		25	
Bromodichloromethane	ug/m3	<0.33	<0.33		25	
Bromoform	ug/m3	<1.5	<1.5		25	
Bromomethane	ug/m3	<0.52	<0.52		25	
Carbon disulfide	ug/m3	<0.17	<0.17		25	
Carbon tetrachloride	ug/m3	<0.32	<0.32		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	0.74J	0.69J		25	
Chloroethane	ug/m3	<0.33	<0.33		25	
Chloroform	ug/m3	1.1	0.99	13	25	
Chloromethane	ug/m3	<0.18	<0.18		25	
Chloropentafluoroethane	ug/m3	<5.4	<5.4		25	
cis-1,2-Dichloroethene	ug/m3	<0.41	<0.41		25	
cis-1,3-Dichloropropene	ug/m3	<0.62	<0.62		25	
Cyclohexane	ug/m3	<0.53	<0.53		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381035

SAMPLE DUPLICATE: 2542896

Parameter	Units	10381035014 Result	Dup Result	RPD	Max RPD	Qualifiers
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	<0.81	<0.81		25	
Dichlorotetrafluoroethane	ug/m3	<0.52	<0.52		25	
Ethylbenzene	ug/m3	<0.71	<0.71		25	
Freon 123	ug/m3	<5.3	<5.3		25	CL
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.23	<0.23		25	
m&p-Xylene	ug/m3	<1.3	<1.3		25	
Methyl acetate	ug/m3	<2.6	<2.6		25	
Methyl-tert-butyl ether	ug/m3	<0.51	<0.51		25	
Methylcyclohexane	ug/m3	<0.41	<0.41		25	
Methylene Chloride	ug/m3	<0.91	<0.91		25	
n-Hexane	ug/m3	1.0J	1.1J		25	
o-Xylene	ug/m3	<0.59	<0.59		25	
Styrene	ug/m3	<0.32	<0.32		25	
Tetrachloroethene	ug/m3	8.4	8.8	5	25	
Toluene	ug/m3	<0.26	<0.26		25	
trans-1,2-Dichloroethene	ug/m3	<0.65	<0.65		25	
trans-1,3-Dichloropropene	ug/m3	<0.44	<0.44		25	
Trichloroethene	ug/m3	1.5	1.6	3	25	
Trichlorofluoromethane	ug/m3	1.3J	1.4J		25	
Vinyl chloride	ug/m3	<0.33	<0.33		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 07501BFB.D BFB Injection Date: 03/16/2017
Instrument ID: 10AIRB BFB Injection Time: 08:47
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.56	
75	30.00 - 66.00% of mass 95	45.21	
96	5.00 - 9.00% of mass 95	6.60	
173	Less than 2.00% of mass 174	0.80	(1.03)
174	50.00 - 120.00% of mass 95	77.72	
175	4.00 - 9.00% of mass 174	5.75	(7.40)
176	93.00 - 101.00% of mass 174	74.27	(95.56)
177	5.00 - 9.00% of mass 176	4.93	(6.63)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	07502.D	03/16/2017	09:16
2	CAL2	CAL2	07503.D	03/16/2017	09:44
3	CAL3	CAL3	07504.D	03/16/2017	10:12
4	CAL4	CAL4	07505.D	03/16/2017	10:42
5	CAL5	CAL5	07506.D	03/16/2017	11:10
6	CAL6	CAL6	07507.D	03/16/2017	11:39
7	CAL7	CAL7	07508.D	03/16/2017	12:08
8	ICV	ICV	07510.D	03/16/2017	13:03

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\031617.b\07502.D
Level 02: all \\192.168.10.12\chem\10airB.i\031617.b\07503.D
Level 03: all \\192.168.10.12\chem\10airB.i\031617.b\07504.D
Level 04: all \\192.168.10.12\chem\10airB.i\031617.b\07505.D
Level 05: all \\192.168.10.12\chem\10airB.i\031617.b\07506.D
Level 06: all \\192.168.10.12\chem\10airB.i\031617.b\07507.D
Level 07: all \\192.168.10.12\chem\10airB.i\031617.b\07508.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	13131	14527	22394	23259	549228	601205	+++++	QUAD	-0.00167	0.10430	-0.03157	0.99526
2 1,1-Difluoroethane	7567	12187	25415	48742	469160	908718	1304730	LINR	0.00117	0.05937		0.99977
3 Chlorodifluoromethane	0.03446	0.03157	0.03074	0.03114	0.02644	0.02585	0.02547	AVRG		0.02938		11.78062
4 Propylene	0.11281	0.11582	0.09848	0.10697	0.08200	0.08178	0.07980	AVRG		0.09681		16.10035

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Dichlorodifluoromethane	32067 / 5503000	53358	115925	224729	2044054	3887214	LINR	0.00730	0.25107		0.99932
6 Chloromethane	0.15208 / 0.12909	0.16680	0.13945	0.15626	0.13344	0.13231	AVRG		0.14421		9.91517
7 Dichlorotetrafluoroethane	0.32466 / 0.23081	0.33074	0.28356	0.30608	0.24626	0.23907	AVRG		0.28017		14.92771
8 Vinyl chloride	0.12760 / 0.10195	0.12238	0.10345	0.11614	0.10124	0.10321	AVRG		0.11085		9.92497
9 1,3-Butadiene	0.10135 / 0.08133	0.10098	0.08659	0.09509	0.08178	0.08083	AVRG		0.08971		10.30892
10 Bromomethane	0.08230 / 0.06859	0.08872	0.07684	0.08230	0.07226	0.06846	AVRG		0.07707		10.04558
11 Chloroethane	0.05565 / 0.04045	0.04705	0.04413	0.04850	0.04141	0.04038	AVRG		0.04537		12.22577

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Ethanol	0.04087	0.04312	0.03582	0.03927	0.03500	0.03464					
	0.03334						AVRG		0.03744		9.80000
13 Vinyl Bromide	0.09034	0.08312	0.07131	0.07982	0.06935	0.06409					
	0.06254						AVRG		0.07437		13.90402
14 Isopentane	10746	19196	45397	81472	796060	1532937					
	2136793						LINR	0.00266	0.09803		0.99889
15 Freon 123	0.17979	0.19833	0.17420	0.18732	0.08058	+++++					
	+++++						AVRG		0.16404		28.97235
16 Trichlorofluoromethane	0.23892	0.23628	0.19969	0.21568	0.18268	0.17360					
	0.16962						AVRG		0.20235		14.20679
17 Acrolein	0.03199	0.03965	0.03281	0.03685	0.03402	0.03199					
	0.03088						AVRG		0.03403		9.23954
18 Acetone	0.20833	0.19763	0.17001	0.17813	0.13864	0.12683					
	0.11187						AVRG		0.16163		22.64012

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	58510	120209	290912	566310	5904175	10228235					
	13311903						QUAD	0.00165	0.16979	-0.00327	0.99999
20 1,1-Dichloroethene	0.16760	0.15655	0.14675	0.15759	0.13513	0.13140					
	0.12928						AVRG		0.14633		10.14877
21 Acrylonitrile	0.08536	0.08326	0.07178	0.08376	0.07586	0.06851					
	0.06459						AVRG		0.07616		10.77799
22 Freon 113	0.18131	0.18480	0.15636	0.17258	0.13673	0.12642					
	0.12104						AVRG		0.15418		17.14045
23 Methyl Acetate	0.27310	0.29401	0.24987	0.27753	0.22201	0.20338					
	0.19216						AVRG		0.24458		16.11848
24 Tert Butyl Alcohol (TBA)	0.18985	0.21886	0.18891	0.20862	0.17249	0.15568					
	0.14387						AVRG		0.18261		14.84818
25 Methylene chloride	0.15884	0.15780	0.13200	0.14211	0.10822	0.09833					
	+++++						AVRG		0.13288		18.98632

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
26 Allyl Chloride	0.03088	0.03359	0.02648	0.02937	0.02739	0.02521					
	0.02414						AVRG		0.02815		11.83176
27 Carbon Disulfide	0.18680	0.17066	0.15073	0.16864	0.16118	0.15739					
	0.15671						AVRG		0.16459		7.29140
28 trans-1,2-dichloroethene	0.08149	0.07576	0.06537	0.07745	0.06831	0.06469					
	0.06431						AVRG		0.07105		9.91279
29 Methyl Tert Butyl Ether	0.20791	0.20593	0.18065	0.20140	0.16958	0.16039					
	0.15551						AVRG		0.18305		12.08723
30 Vinyl Acetate	0.24068	0.25937	0.21578	0.25237	0.24831	0.24333					
	0.24051						AVRG		0.24291		5.66557
31 1,1-Dichloroethane	0.17210	0.17326	0.14843	0.16499	0.14351	0.13817					
	0.13850						AVRG		0.15414		10.09103
33 Methyl Ethyl Ketone	0.04236	0.04487	0.03511	0.03727	0.03778	0.03155					
	0.03198						AVRG		0.03727		13.38613

GREATER THAN LABORATORY MINIMUM; NO VALIDATION ACTION TAKEN

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.19885	0.18874	0.15975	0.18638	0.18063	0.14560					
	0.14035						AVRG		0.17147		13.31840
35 Di-isopropyl Ether	0.35920	0.38471	0.32750	0.41717	0.38387	0.33280					
	0.28516						AVRG		0.35577		12.42325
36 Ethyl Acetate	0.23871	0.24300	0.20606	0.27975	0.25059	0.24736					
	0.22319						AVRG		0.24124		9.54476
37 cis-1,2-Dichloroethene	0.08896	0.08974	0.07099	0.09485	0.09459	0.09024					
	0.08145						AVRG		0.08726		9.67526
38 Ethyl Tert-Butyl Ether	0.33273	0.36862	0.33180	0.38743	0.32498	0.27863					
	0.24083						AVRG		0.32357		15.51740
39 Chloroform	0.17742	0.19542	0.18684	0.21602	0.18615	0.16396					
	0.15009						AVRG		0.18227		11.72841
40 Tetrahydrofuran	0.13388	0.12638	0.11258	0.13180	0.12831	0.13176					
	0.13133						AVRG		0.12801		5.66000

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
41 1,1,1-Trichloroethane	0.22687	0.22630	0.20769	0.23213	0.21316	0.20085					
	0.19184						AVRG		0.21412		7.00565
42 1,2-Dichloroethane	0.20272	0.19466	0.17034	0.19120	0.16972	0.15859					
	0.15158						AVRG		0.17697		10.96163
43 Benzene	0.29337	0.32311	0.27480	0.31490	0.28577	0.26925					
	0.25519						AVRG		0.28805		8.49459
44 Carbon tetrachloride	0.20826	0.20418	0.18570	0.21518	0.21264	0.19771					
	0.18713						AVRG		0.20154		5.85111
45 Cyclohexane	0.16216	0.20253	0.17053	0.19663	0.17438	0.16085					
	0.14895						AVRG		0.17372		11.21727
46 Tert Amyl Methyl Ether	80905	96697	156175	233267	1899489	3619267					
	5215626						LINR	0.01169	0.23432		0.99990
48 2,2,4-Trimethylpentane	0.59807	0.65385	0.58852	0.65364	0.51649	0.42050					
	0.35079						AVRG		0.54027		21.66922

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
49 Heptane	0.19227	0.21267	0.18953	0.21969	0.20728	0.20218					
	0.19768						AVRG		0.20304		5.37961
50 1,2-Dichloropropane	0.11831	0.12559	0.11354	0.12470	0.11887	0.11344					
	0.10860						AVRG		0.11758		5.28109
51 Trichloroethene	0.13954	0.14682	0.12411	0.13817	0.13424	0.13076					
	0.12903						AVRG		0.13467		5.61097
52 Methyl methacrylate	0.08624	0.09228	0.08581	0.09858	0.10034	0.09738					
	0.09375						AVRG		0.09348		6.19209
53 1,4-Dioxane	0.06177	0.06334	0.06134	0.06938	0.06629	0.06542					
	0.06119						AVRG		0.06410		4.78797
54 Bromodichloromethane	0.19623	0.21407	0.18682	0.21994	0.21538	0.20199					
	0.19172						AVRG		0.20374		6.31966
55 Methylcyclohexane	0.06792	0.08162	0.06588	0.08484	0.07958	0.07974					
	0.07904						AVRG		0.07695		9.30146

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
56 Methyl Isobutyl Ketone	0.24863	0.27007	0.25218	0.29292	0.28695	0.25483					
	+++++						AVRG		0.26760		7.05541
57 cis-1,3-Dichloropropene	0.12230	0.13819	0.12991	0.14878	0.16791	0.16532					
	0.15994						AVRG		0.14748		12.13381
58 trans-1,3-Dichloropropene	6286	13209	34444	76938	1227333	2367554					
	3473870						LINR	-0.00154	0.15887		0.99990
60 1,1,2-Trichloroethane	0.12030	0.12511	0.10749	0.11938	0.11763	0.11160					
	0.10547						AVRG		0.11528		6.28275
61 Toluene	0.37242	0.35414	0.30745	0.34596	0.33831	0.32188					
	0.30132						AVRG		0.33450		7.68096
62 Methyl Butyl Ketone	35399	68380	173161	369960	4988064	8951590					
	+++++						QUAD	-0.01261	0.43480	-0.01898	0.99987
63 n-Octane	0.36177	0.35297	0.34196	0.37385	0.41512	0.37836					
	0.34875						AVRG		0.36754		6.73271

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
64 Dibromochloromethane	0.22185	0.23149	0.22349	0.25697	0.32654	0.30639					
	0.29302						AVRG		0.26568		16.15631
65 1,2-Dibromoethane	0.24015	0.24492	0.23634	0.25484	0.29035	0.27131					
	0.25686						AVRG		0.25639		7.42658
66 Tetrachloroethene	0.22867	0.22759	0.21656	0.22345	0.24006	0.22953					
	0.22200						AVRG		0.22684		3.25152
68 Chlorobenzene	0.35931	0.36397	0.33314	0.34704	0.39857	0.38064					
	0.36564						AVRG		0.36404		5.86613
69 Ethyl Benzene	0.55493	0.54197	0.51105	0.57703	0.67348	0.62000					
	0.57273						AVRG		0.57874		9.25634
70 m&p-Xylene	36547	76470	193153	394579	5292486	9330830					
	12499517						QUAD	-0.00949	0.55867	-0.02804	0.99981
71 n-Nonane	0.27403	0.30110	0.27032	0.32914	0.37953	0.32168					
	0.28062						AVRG		0.30806		12.65686

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
72 Bromoform	5798	11527	32186	70796	1308248	2478644	3501253	QUAD	-0.00520	0.27086	-0.01696	0.99984
73 Styrene	11042	22989	62805	134105	2003651	3761512	5282471	QUAD	-0.00542	0.41382	-0.02761	0.99991
74 o-Xylene	0.43318	0.43224	0.39707	0.43201	0.52116	0.46788	0.43083	AVRG		0.44491		8.84574
75 1,1,2,2-Tetrachloroethane	10277	21473	50861	111021	1607918	3048140	4356408	QUAD	-0.00359	0.32644	-0.01795	0.99991
76 Isopropylbenzene	0.62179	0.59839	0.52279	0.58039	0.67061	0.60549	0.55429	AVRG		0.59339		8.02971
77 N-Propylbenzene	22512	45205	122641	272313	4230588	7783443	10741845	QUAD	-0.01302	0.88520	-0.07057	0.99987
78 4-Ethyltoluene	16882	35375	92804	218331	3537813	6573456	9214634	QUAD	-0.01170	0.73224	-0.05147	0.99985

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,3,5-Trimethylbenzene	15530 / 7607993	33073	84978	188512	2915580	5428846	QUAD	-0.00848	0.60274	-0.04200	0.99988
80 n-Decane	0.16245 / 0.24681	0.15558	0.13684	0.18118	0.26189	0.25766	AVRG		0.20034		26.62492
81 Tert-Butyl Benzene	17044 / 7546316	35349	94889	209358	2957365	5405075	QUAD	-0.00658	0.60888	-0.04568	0.99983
82 1,2,4-Trimethylbenzene	14901 / 6606208	30258	82259	175616	2664072	4817484	QUAD	-0.00733	0.55733	-0.04789	0.99982
83 1,3-Dichlorobenzene	8339 / 4394121	17279	45018	96695	1608646	3080142	QUAD	-0.00526	0.32955	-0.01796	0.99990
84 Sec- Butylbenzene	22507 / 9212233	46846	117667	258353	3842670	6811629	QUAD	-0.01007	0.80902	-0.07753	0.99975
86 Benzyl Chloride	7683 / 4947011	13457	25914	63568	1582891	3338294	LINR	-0.00735	0.31301		0.99965

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
87 1,4-Dichlorobenzene	8792 / 4488303	17841	46584	96361	1579256	3070407	QUAD	-0.00449	0.31594	-0.01158	0.99990
88 p-Isopropyltoluene	16175 / 8220757	35065	87746	195118	3155394	5870404	LINR	0.01009	0.52638		0.99568
89 1,2,3-Trimethylbenzene	13825 / 6653035	29342	76197	165413	2555897	4796475	QUAD	-0.00791	0.53497	-0.03916	0.99991
90 1,2-Dichlorobenzene	8167 / 4298303	15649	40377	84735	1468009	2931784	LINR	-0.00129	0.27189		0.99938
91 N-Butylbenzene	12353 / 7020024	24134	65622	154113	2633143	5019857	QUAD	-0.01029	0.55118	-0.03660	0.99989
92 1,2-Dibromo-3-Chloropropane	3358 / 1737382	4849	12878	33797	541546	1127640	LINR	-0.00238	0.10846		0.99980
93 1,2,4-Trichlorobenzene	515 / 1840861	1879	9513	25086	462690	1088818	QUAD	-0.00155	0.07846	0.01231	0.99998

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
94 Naphthalene	3315 / 5043626	8891	30842	84847	1406933	3147835	LINR	-0.01329	0.31201		0.99786
							AVRG		0.12598		14.19111
95 Hexachlorobutadiene	0.13241 / 0.10664	0.13333	0.13299	0.15599	0.11176	0.10876					
$ 32 Hexane-d14(S)	0.34799 / 0.33802	0.35417	0.33822	0.35174	0.33822	0.33087	AVRG		0.34275		2.50800
$ 59 Toluene-d8 (S)	0.90729 / 0.95728	0.91035	0.89742	0.91886	0.91507	0.93974	AVRG		0.92086		2.24531
$ 85 1,4-dichlorobenzene-d4 (S)	0.43998 / 0.51580	0.44143	0.44337	0.50337	0.50943	0.52460	AVRG		0.48257		8.05631

Report Date : 20-Mar-2017 12:26

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2017 09:16
End Cal Date : 16-MAR-2017 12:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\031617.b\TO15_075-17.m
Last Edit : 20-Mar-2017 12:18 nkoller

Average %RSD Results.
Calculated Average %RSD = 10.81874
Maximun Average %RSD = 30.00000
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 07901BFB.D BFB Injection Date: 03/20/2017
Instrument ID: 10AIRB BFB Injection Time: 08:42
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	24.57	
75	30.00 - 66.00% of mass 95	45.56	
96	5.00 - 9.00% of mass 95	6.58	
173	Less than 2.00% of mass 174	0.81	(1.04)
174	50.00 - 120.00% of mass 95	78.00	
175	4.00 - 9.00% of mass 174	5.69	(7.29)
176	93.00 - 101.00% of mass 174	74.18	(95.10)
177	5.00 - 9.00% of mass 176	4.71	(6.35)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 464711 [AIR/27953]	2540990	07902_27953.D	03/20/2017	09:10
2	CCV	CCV	07902.D	03/20/2017	09:10
3	BLANK for HBN 464711 [AIR/2795	2540989	07906_27953.D	03/20/2017	11:10
4	CERT	CERT	07906.D	03/20/2017	11:10
5	VP-1_5_20170302	10381035001	07933.D	03/21/2017	02:17
6	VP-1_10_2017032	10381035002	07935.D	03/21/2017	03:21
7	VP-1_10_2017032(2530864DUP)	2541459-DUP	07936.D	03/21/2017	03:52

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 20-MAR-2017 09:10
Lab File ID: 07902.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
1	Chloropentafluoroethane	10.00000	7.54963	0.05908	0.010	-24.50369	30.00000	Quad	(H)	
2	1,1-Difluoroethane	10.00000	11.45724	0.06920	0.010	14.57245	30.00000	Line		
3	Chlorodifluoromethane	0.02938	0.03026	0.03026	0.010	2.98939	30.00000	Aver		
4	Propylene	0.09681	0.09217	0.09217	0.010	-4.78834	30.00000	Aver		
5	Dichlorodifluoromethane	10.00000	11.77577	0.30295	0.010	17.75770	30.00000	Line		
6	Chloromethane	0.14421	0.14992	0.14992	0.010	3.96049	30.00000	Aver	(H)	
7	Dichlorotetrafluoroethane	0.28017	0.27716	0.27716	0.010	-1.07382	30.00000	Aver		
8	Vinyl chloride	0.11085	0.10527	0.10527	0.010	-5.03849	30.00000	Aver		
9	1,3-Butadiene	0.08971	0.08383	0.08383	0.010	-6.54808	30.00000	Aver		
10	Bromomethane	0.07707	0.07261	0.07261	0.010	-5.77906	30.00000	Aver		
11	Chloroethane	0.04537	0.04274	0.04274	0.010	-5.79338	30.00000	Aver		
12	Ethanol	0.03744	0.03953	0.03953	0.005	5.59240	30.00000	Aver		
13	Vinyl Bromide	0.07437	0.06921	0.06921	0.010	-6.93005	30.00000	Aver		
14	Isopentane	10.00000	10.58442	0.10642	0.010	5.84415	30.00000	Line		
15	Freon 123	0.16404	0.06929	0.06929	0.010	-57.76095	30.00000	Aver	(H)	<-
16	Trichlorofluoromethane	0.20235	0.18896	0.18896	0.010	-6.61634	30.00000	Aver		
17	Acrolein	0.03403	0.03376	0.03376	0.010	-0.80107	30.00000	Aver		
18	Acetone	0.16163	0.15159	0.15159	0.010	-6.21429	30.00000	Aver		
19	Isopropyl Alcohol	50.00000	54.41557	0.16577	0.010	8.83113	30.00000	Quad		
20	1,1-Dichloroethene	0.14633	0.13999	0.13999	0.010	-4.32984	30.00000	Aver		
21	Acrylonitrile	0.07616	0.07826	0.07826	0.010	2.75633	30.00000	Aver		
22	Freon 113	0.15418	0.13826	0.13826	0.010	-10.32139	30.00000	Aver		
23	Methyl Acetate	0.24458	0.23398	0.23398	0.010	-4.33468	30.00000	Aver		
24	Tert Butyl Alcohol (TBA)	0.18261	0.17598	0.17598	0.010	-3.63226	30.00000	Aver		
25	Methylene chloride	0.13288	0.11206	0.11206	0.010	-15.66674	30.00000	Aver		
26	Allyl Chloride	0.02815	0.02675	0.02675	0.010	-4.97236	30.00000	Aver	(Q)	
27	Carbon Disulfide	0.16459	0.16313	0.16313	0.010	-0.88325	30.00000	Aver		
28	trans-1,2-dichloroethene	0.07105	0.06693	0.06693	0.010	-5.79745	30.00000	Aver		
29	Methyl Tert Butyl Ether	0.18305	0.17396	0.17396	0.010	-4.96789	30.00000	Aver		
30	Vinyl Acetate	0.24291	0.25602	0.25602	0.010	5.39680	30.00000	Aver		
31	1,1-Dichloroethane	0.15414	0.14797	0.14797	0.010	-3.99688	30.00000	Aver		
$ 32	Hexane-d14(S)	0.34275	0.30874	0.30874	0.010	-9.92206	30.00000	Aver		
33	Methyl Ethyl Ketone	0.03727	0.03262	0.03262	0.010	-12.49492	30.00000	Aver	(Q)	
34	n-Hexane	0.17147	0.15479	0.15479	0.010	-9.72545	30.00000	Aver	(Q)	
35	Di-isopropyl Ether	0.35577	0.31692	0.31692	0.010	-10.92117	30.00000	Aver		
36	Ethyl Acetate	0.24124	0.27324	0.27324	0.010	13.26754	30.00000	Aver		
37	cis-1,2-Dichloroethene	0.08726	0.09460	0.09460	0.010	8.41387	30.00000	Aver		
38	Ethyl Tert-Butyl Ether	0.32357	0.34480	0.34480	0.010	6.56129	30.00000	Aver		
39	Chloroform	0.18227	0.19225	0.19225	0.010	5.47537	30.00000	Aver		
40	Tetrahydrofuran	0.12801	0.14114	0.14114	0.010	10.25993	30.00000	Aver		
41	1,1,1-Trichloroethane	0.21412	0.23073	0.23073	0.010	7.75777	30.00000	Aver		
42	1,2-Dichloroethane	0.17697	0.18317	0.18317	0.010	3.50394	30.00000	Aver		

RRF GREATER THAN LABORATORY MINIMUM; NO VALIDATION ACTION TAKEN

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 20-MAR-2017 09:10
Lab File ID: 07902.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.28805	0.30362	0.30362	0.010	5.40349	30.00000	Aver		
	44 Carbon tetrachloride	0.20154	0.22705	0.22705	0.010	12.65744	30.00000	Aver		
	45 Cyclohexane	0.17372	0.18902	0.18902	0.010	8.80593	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	10.95529	0.26839	0.010	9.55294	30.00000	Line		
	48 2,2,4-Trimethylpentane	0.54027	0.56162	0.56162	0.010	3.95233	30.00000	Aver		
	49 Heptane	0.20304	0.22669	0.22669	0.010	11.64528	30.00000	Aver		
	50 1,2-Dichloropropane	0.11758	0.12724	0.12724	0.010	8.21999	30.00000	Aver		
	51 Trichloroethene	0.13467	0.14397	0.14397	0.010	6.91029	30.00000	Aver		
	52 Methyl methacrylate	0.09348	0.10767	0.10767	0.010	15.17848	30.00000	Aver		
	53 1,4-Dioxane	0.06410	0.07438	0.07438	0.010	16.03758	30.00000	Aver		
	54 Bromodichloromethane	0.20374	0.23160	0.23160	0.010	13.67691	30.00000	Aver		
	55 Methylcyclohexane	0.07695	0.08574	0.08574	0.010	11.43169	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.26760	0.30811	0.30811	0.010	15.13816	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.14748	0.17751	0.17751	0.010	20.36460	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	10.66046	0.16782	0.010	6.60464	30.00000	Line		
$	59 Toluene-d8 (S)	0.92086	0.91629	0.91629	0.010	-0.49587	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.11528	0.12446	0.12446	0.010	7.96134	30.00000	Aver		
	61 Toluene	0.33450	0.36384	0.36384	0.010	8.77078	30.00000	Aver		
	62 Methyl Butyl Ketone	25.00000	27.48313	0.41559	0.010	9.93251	30.00000	Quad		
	63 n-Octane	0.36754	0.43534	0.43534	0.010	18.44741	30.00000	Aver		
	64 Dibromochloromethane	0.26568	0.35283	0.35283	0.010	32.80316	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.25639	0.30785	0.30785	0.010	20.06980	30.00000	Aver		
	66 Tetrachloroethene	0.22684	0.26075	0.26075	0.010	14.94896	30.00000	Aver		
	68 Chlorobenzene	0.36404	0.42772	0.42772	0.010	17.49087	30.00000	Aver		
	69 Ethyl Benzene	0.57874	0.72452	0.72452	0.010	25.18877	30.00000	Aver		
	70 m&p-Xylene	20.00000	22.09033	0.54390	0.010	10.45165	30.00000	Quad		
	71 n-Nonane	0.30806	0.40446	0.40446	0.010	31.29207	30.00000	Aver		<-
	72 Bromoform	10.00000	10.81670	0.26793	0.010	8.16703	30.00000	Quad		
	73 Styrene	10.00000	10.84433	0.41088	0.010	8.44331	30.00000	Quad		
	74 o-Xylene	0.44491	0.55677	0.55677	0.010	25.14184	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	10.00000	10.94549	0.33221	0.010	9.45487	30.00000	Quad		
	76 Isopropylbenzene	0.59339	0.71910	0.71910	0.010	21.18531	30.00000	Aver		
	77 N-Propylbenzene	10.00000	11.01587	0.87647	0.010	10.15871	30.00000	Quad		
	78 4-Ethyltoluene	10.00000	11.03487	0.73363	0.010	10.34873	30.00000	Quad		
	79 1,3,5-Trimethylbenzene	10.00000	11.02976	0.60524	0.010	10.29761	30.00000	Quad		
	80 n-Decane	0.20034	0.28801	0.28801	0.010	43.75982	30.00000	Aver		<-
	81 Tert-Butyl Benzene	10.00000	11.04807	0.61036	0.010	10.48072	30.00000	Quad		
	82 1,2,4-Trimethylbenzene	10.00000	11.10127	0.55236	0.010	11.01275	30.00000	Quad		
	83 1,3-Dichlorobenzene	10.00000	11.05770	0.33720	0.010	10.57702	30.00000	Quad		
	84 Sec- Butylbenzene	10.00000	11.18789	0.79802	0.010	11.87885	30.00000	Quad		
$	85 1,4-dichlorobenzene-d4 (S)	0.48257	0.54459	0.54459	0.010	12.85292	30.00000	Aver		
	86 Benzyl Chloride	10.00000	11.11961	0.34071	0.010	11.19615	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032017.b\07902.D
Report Date: 20-Mar-2017 12:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 20-MAR-2017 09:10
Lab File ID: 07902.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032017.b\TO15_075-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	10.00000	10.96690	0.32807	0.010	9.66901	30.00000	Quad	
88 p-Isopropyltoluene	10.00000	12.25670	0.65526	0.010	22.56695	30.00000	Line	
89 1,2,3-Trimethylbenzene	10.00000	11.04920	0.53538	0.010	10.49197	30.00000	Quad	
90 1,2-Dichlorobenzene	10.00000	11.40897	0.30891	0.010	14.08973	30.00000	Line	
91 N-Butylbenzene	10.00000	11.10691	0.55674	0.010	11.06906	30.00000	Quad	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.65996	0.11324	0.010	6.59962	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	11.48757	0.10483	0.010	14.87566	30.00000	Quad	
94 Naphthalene	10.00000	10.14874	0.30336	0.010	1.48744	30.00000	Line	
95 Hexachlorobutadiene	0.12598	0.13066	0.13066	0.010	3.71165	30.00000	Aver	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 11.07209
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 08001BFB.D BFB Injection Date: 03/21/2017
Instrument ID: 10AIRB BFB Injection Time: 08:35
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.44	
75	30.00 - 66.00% of mass 95	45.20	
96	5.00 - 9.00% of mass 95	6.61	
173	Less than 2.00% of mass 174	0.82	(1.05)
174	50.00 - 120.00% of mass 95	77.73	
175	4.00 - 9.00% of mass 174	5.88	(7.57)
176	93.00 - 101.00% of mass 174	75.62	(97.29)
177	5.00 - 9.00% of mass 176	4.89	(6.47)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 464895 [AIR/27967]	2541631	08002_27967.D	03/21/2017	09:03
2	CCV	CCV	08002.D	03/21/2017	09:03
3	CERT	CERT	08004.D	03/21/2017	10:02
4	BLANK for HBN 464895 [AIR/2796	2541630	08012_27967.D	03/21/2017	14:07
5	CERT	CERT	08012.D	03/21/2017	14:07
6	VP-1_20_20170302	10381035003	08013.D	03/21/2017	14:40
7	VP-1_30_20170302	10381035004	08014.D	03/21/2017	15:13
8	VP-2_5_20170302	10381035005	08015.D	03/21/2017	15:44
9	VP-2_10_20170302	10381035006	08016.D	03/21/2017	16:16
10	VP-2_20_20170302	10381035007	08017.D	03/21/2017	16:47
11	VP-2_30_20170302	10381035008	08018.D	03/21/2017	17:19
12	VP-4_5_20170302	10381035009	08019.D	03/21/2017	17:50
13	VP-4_10_20170302	10381035010	08020.D	03/21/2017	18:21
14	VP-4_20_20170302	10381035011	08021.D	03/21/2017	18:53
15	VP-4_30_20170302	10381035012	08022.D	03/21/2017	19:25
16	VP-106_5_20170302	10381035013	08023.D	03/21/2017	19:57
17	VP-106_11_20170302	10381035014	08024.D	03/21/2017	20:28
18	VP-106_11_20170302(2530885DUP)	2542896-DUP	08025.D	03/21/2017	20:59
19	VP-106_19.5_20170302	10381035015	08026.D	03/21/2017	21:31
20	VP-106_28_20170302	10381035016	08028.D	03/21/2017	22:35
21	VP-106_56_20170302	10381035017	08029.D	03/21/2017	23:06
22	VP-106_72_20170302	10381035018	08030.D	03/21/2017	23:39
23	VP-106_84_20170302	10381035019	08031.D	03/22/2017	00:12
24	VP-106_72_20170302DUP	10381035020	08032.D	03/22/2017	00:43
25	VP-2_10_20170302DUP	10381035021	08034.D	03/22/2017	01:42

26	VP-1_30_20170302DUP	10381035022	08035.D	03/22/2017	02:14

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 21-MAR-2017 09:03
Lab File ID: 08002.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	8.29607	0.06313	0.010	-17.03933	30.00000	Quad		
	2 1,1-Difluoroethane	10.00000	11.43076	0.06904	0.010	14.30757	30.00000	Line		
	3 Chlorodifluoromethane	0.02938	0.02906	0.02906	0.010	-1.10328	30.00000	Aver		
	4 Propylene	0.09681	0.09306	0.09306	0.010	-3.87231	30.00000	Aver		
	5 Dichlorodifluoromethane	10.00000	11.36931	0.29275	0.010	13.69313	30.00000	Line		
	6 Chloromethane	0.14421	0.14802	0.14802	0.010	2.64617	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.28017	0.27660	0.27660	0.010	-1.27242	30.00000	Aver		
	8 Vinyl chloride	0.11085	0.11052	0.11052	0.010	-0.30095	30.00000	Aver		
	9 1,3-Butadiene	0.08971	0.08832	0.08832	0.010	-1.54515	30.00000	Aver		
	10 Bromomethane	0.07707	0.07763	0.07763	0.010	0.72943	30.00000	Aver		
	11 Chloroethane	0.04537	0.04555	0.04555	0.010	0.39134	30.00000	Aver		
	12 Ethanol	0.03744	0.04140	0.04140	0.005	10.58608	30.00000	Aver		
	13 Vinyl Bromide	0.07437	0.07602	0.07602	0.010	2.22515	30.00000	Aver		
	14 Isopentane	10.00000	11.30915	0.11352	0.010	13.09148	30.00000	Line		
	15 Freon 123	0.16404	0.08069	0.08069	0.010	-50.81160	30.00000	Aver		<-
	16 Trichlorofluoromethane	0.20235	0.20133	0.20133	0.010	-0.50423	30.00000	Aver		
	17 Acrolein	0.03403	0.03526	0.03526	0.010	3.61422	30.00000	Aver		
	18 Acetone	0.16163	0.15445	0.15445	0.010	-4.44193	30.00000	Aver		
	19 Isopropyl Alcohol	50.00000	57.30576	0.17347	0.010	14.61151	30.00000	Quad		
	20 1,1-Dichloroethene	0.14633	0.14955	0.14955	0.010	2.20079	30.00000	Aver		
	21 Acrylonitrile	0.07616	0.08247	0.08247	0.010	8.28384	30.00000	Aver		
	22 Freon 113	0.15418	0.15168	0.15168	0.010	-1.62048	30.00000	Aver		
	23 Methyl Acetate	0.24458	0.24674	0.24674	0.010	0.88353	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.18261	0.18990	0.18990	0.010	3.99135	30.00000	Aver		
	25 Methylene chloride	0.13288	0.11892	0.11892	0.010	-10.50910	30.00000	Aver		
	26 Allyl Chloride	0.02815	0.02970	0.02970	0.010	5.49378	30.00000	Aver		
	27 Carbon Disulfide	0.16459	0.17805	0.17805	0.010	8.17766	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.07105	0.07289	0.07289	0.010	2.57942	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.18305	0.18723	0.18723	0.010	2.28439	30.00000	Aver		
	30 Vinyl Acetate	0.24291	0.27066	0.27066	0.010	11.42415	30.00000	Aver		
	31 1,1-Dichloroethane	0.15414	0.15699	0.15699	0.010	1.85358	30.00000	Aver		
$	32 Hexane-d14(S)	0.34275	0.32701	0.32701	0.010	-4.59112	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.03727	0.03551	0.03551	0.010	-4.73533	30.00000	Aver		
	34 n-Hexane	0.17147	0.16395	0.16395	0.010	-4.38489	30.00000	Aver		
	35 Di-isopropyl Ether	0.35577	0.33680	0.33680	0.010	-5.33274	30.00000	Aver		
	36 Ethyl Acetate	0.24124	0.24659	0.24659	0.010	2.22053	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.08726	0.08734	0.08734	0.010	0.08569	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.32357	0.34625	0.34625	0.010	7.00824	30.00000	Aver		
	39 Chloroform	0.18227	0.18957	0.18957	0.010	4.00348	30.00000	Aver		
	40 Tetrahydrofuran	0.12801	0.14320	0.14320	0.010	11.86878	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.21412	0.22812	0.22812	0.010	6.53840	30.00000	Aver		
	42 1,2-Dichloroethane	0.17697	0.18024	0.18024	0.010	1.84628	30.00000	Aver		

RRF GREATER THAN LABORATORY MINIMUM; NO VALIDATION ACTION TAKEN

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 21-MAR-2017 09:03
Lab File ID: 08002.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.28805	0.30658	0.30658	0.010	6.43208	30.00000	Aver		
	44 Carbon tetrachloride	0.20154	0.22758	0.22758	0.010	12.92054	30.00000	Aver		
	45 Cyclohexane	0.17372	0.19079	0.19079	0.010	9.82868	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.20715	0.27429	0.010	12.07154	30.00000	Line		
	48 2,2,4-Trimethylpentane	0.54027	0.57227	0.57227	0.010	5.92332	30.00000	Aver		
	49 Heptane	0.20304	0.22989	0.22989	0.010	13.22055	30.00000	Aver		
	50 1,2-Dichloropropane	0.11758	0.12899	0.12899	0.010	9.70620	30.00000	Aver		
	51 Trichloroethene	0.13467	0.14688	0.14688	0.010	9.06950	30.00000	Aver		
	52 Methyl methacrylate	0.09348	0.11031	0.11031	0.010	17.99894	30.00000	Aver		
	53 1,4-Dioxane	0.06410	0.07483	0.07483	0.010	16.73626	30.00000	Aver		
	54 Bromodichloromethane	0.20374	0.23073	0.23073	0.010	13.24921	30.00000	Aver		
	55 Methylcyclohexane	0.07695	0.08830	0.08830	0.010	14.75128	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.26760	0.31541	0.31541	0.010	17.86832	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.14748	0.18112	0.18112	0.010	22.80912	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	10.73108	0.16894	0.010	7.31085	30.00000	Line		
$	59 Toluene-d8 (S)	0.92086	0.91904	0.91904	0.010	-0.19795	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.11528	0.12756	0.12756	0.010	10.64954	30.00000	Aver		
	61 Toluene	0.33450	0.37449	0.37449	0.010	11.95481	30.00000	Aver		
	62 Methyl Butyl Ketone	25.00000	27.53824	0.41632	0.010	10.15295	30.00000	Quad		
	63 n-Octane	0.36754	0.44495	0.44495	0.010	21.06178	30.00000	Aver		
	64 Dibromochloromethane	0.26568	0.35365	0.35365	0.010	33.11075	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.25639	0.31257	0.31257	0.010	21.91165	30.00000	Aver		
	66 Tetrachloroethene	0.22684	0.26317	0.26317	0.010	16.01620	30.00000	Aver		
	68 Chlorobenzene	0.36404	0.43625	0.43625	0.010	19.83553	30.00000	Aver		
	69 Ethyl Benzene	0.57874	0.72806	0.72806	0.010	25.80035	30.00000	Aver		
	70 m&p-Xylene	20.00000	22.12197	0.54459	0.010	10.60987	30.00000	Quad		
	71 n-Nonane	0.30806	0.40523	0.40523	0.010	31.54232	30.00000	Aver		<-
	72 Bromoform	10.00000	10.92906	0.27056	0.010	9.29065	30.00000	Quad		
	73 Styrene	10.00000	10.87525	0.41197	0.010	8.75247	30.00000	Quad		
	74 o-Xylene	0.44491	0.55344	0.55344	0.010	24.39387	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	10.00000	10.87164	0.33009	0.010	8.71639	30.00000	Quad		
	76 Isopropylbenzene	0.59339	0.71328	0.71328	0.010	20.20294	30.00000	Aver		
	77 N-Propylbenzene	10.00000	10.81387	0.86170	0.010	8.13866	30.00000	Quad		
	78 4-Ethyltoluene	10.00000	10.88036	0.72406	0.010	8.80358	30.00000	Quad		
	79 1,3,5-Trimethylbenzene	10.00000	10.94467	0.60089	0.010	9.44667	30.00000	Quad		
	80 n-Decane	0.20034	0.28502	0.28502	0.010	42.26561	30.00000	Aver		<-
	81 Tert-Butyl Benzene	10.00000	11.04959	0.61043	0.010	10.49589	30.00000	Quad		
	82 1,2,4-Trimethylbenzene	10.00000	11.14657	0.55441	0.010	11.46571	30.00000	Quad		
	83 1,3-Dichlorobenzene	10.00000	11.01486	0.33596	0.010	10.14862	30.00000	Quad		
	84 Sec- Butylbenzene	10.00000	11.02370	0.78756	0.010	10.23697	30.00000	Quad		
$	85 1,4-dichlorobenzene-d4 (S)	0.48257	0.50822	0.50822	0.010	5.31509	30.00000	Aver	(M)	
	86 Benzyl Chloride	10.00000	11.25968	0.34510	0.010	12.59680	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\032117.b\08002.D
Report Date: 21-Mar-2017 09:23

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 21-MAR-2017 09:03
Lab File ID: 08002.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032117.b\TO15_075-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	10.00000	10.96511	0.32802	0.010	9.65111	30.00000	Quad	
88 p-Isopropyltoluene	10.00000	12.32699	0.65896	0.010	23.26986	30.00000	Line	
89 1,2,3-Trimethylbenzene	10.00000	10.93975	0.53047	0.010	9.39752	30.00000	Quad	
90 1,2-Dichlorobenzene	10.00000	11.50869	0.31163	0.010	15.08690	30.00000	Line	
91 N-Butylbenzene	10.00000	10.81866	0.54317	0.010	8.18661	30.00000	Quad	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.47359	0.11122	0.010	4.73585	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	11.19546	0.10173	0.010	11.95464	30.00000	Quad	
94 Naphthalene	10.00000	10.09637	0.30173	0.010	0.96368	30.00000	Line	
95 Hexachlorobutadiene	0.12598	0.12370	0.12370	0.010	-1.80768	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.
Calculated Average %D/Drift = 10.28784
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381035
Lab File ID: 08101BFB.D BFB Injection Date: 03/22/2017
Instrument ID: 10AIRB BFB Injection Time: 08:37
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	24.34	
75	30.00 - 66.00% of mass 95	45.23	
96	5.00 - 9.00% of mass 95	6.63	
173	Less than 2.00% of mass 174	0.80	(1.04)
174	50.00 - 120.00% of mass 95	77.05	
175	4.00 - 9.00% of mass 174	5.73	(7.44)
176	93.00 - 101.00% of mass 174	73.00	(94.74)
177	5.00 - 9.00% of mass 176	4.94	(6.77)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	08102.D	03/22/2017	09:05
2	CERT	CERT	08110.D	03/22/2017	13:31
3	VP-1_20_20170302	10381035003	08134.D	03/23/2017	02:43
4	VP-106_28_20170302	10381035016	08136.D	03/23/2017	03:46
5	VP-106_84_20170302	10381035019	08138.D	03/23/2017	04:46
6	VP-106_56_20170302	10381035017	08139.D	03/23/2017	05:14
7	VP-106_72_20170302	10381035018	08140.D	03/23/2017	05:42
8	VP-106_72_20170302DUP	10381035020	08141.D	03/23/2017	06:10
9	VP-2_10_20170302	10381035006	08142.D	03/23/2017	06:38
10	VP-2_10_20170302DUP	10381035021	08143.D	03/23/2017	07:06

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 22-MAR-2017 09:05
Lab File ID: 08102.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
1	Chloropentafluoroethane	10.00000	8.26202	0.06295	0.010	-17.37975	30.00000	Quad		
2	1,1-Difluoroethane	10.00000	11.57799	0.06992	0.010	15.77987	30.00000	Line		
3	Chlorodifluoromethane	0.02938	0.03059	0.03059	0.010	4.11338	30.00000	Aver	(M)	
4	Propylene	0.09681	0.09590	0.09590	0.010	-0.93938	30.00000	Aver	(H)	
5	Dichlorodifluoromethane	10.00000	11.84605	0.30471	0.010	18.46046	30.00000	Line	(H)	
6	Chloromethane	0.14421	0.15474	0.15474	0.010	7.30661	30.00000	Aver		
7	Dichlorotetrafluoroethane	0.28017	0.28847	0.28847	0.010	2.96519	30.00000	Aver		
8	Vinyl chloride	0.11085	0.11404	0.11404	0.010	2.87457	30.00000	Aver		
9	1,3-Butadiene	0.08971	0.09234	0.09234	0.010	2.93655	30.00000	Aver		
10	Bromomethane	0.07707	0.08089	0.08089	0.010	4.96003	30.00000	Aver		
11	Chloroethane	0.04537	0.04730	0.04730	0.010	4.25596	30.00000	Aver		
12	Ethanol	0.03744	0.04373	0.04373	0.005	16.80429	30.00000	Aver		
13	Vinyl Bromide	0.07437	0.07855	0.07855	0.010	5.63298	30.00000	Aver		
14	Isopentane	10.00000	11.84605	0.11879	0.010	18.46046	30.00000	Line		
15	Freon 123	0.16404	0.08442	0.08442	0.010	-48.53767	30.00000	Aver		<-
16	Trichlorofluoromethane	0.20235	0.20883	0.20883	0.010	3.20014	30.00000	Aver		
17	Acrolein	0.03403	0.03597	0.03597	0.010	5.69665	30.00000	Aver		
18	Acetone	0.16163	0.16504	0.16504	0.010	2.10679	30.00000	Aver		
19	Isopropyl Alcohol	50.00000	60.07602	0.18076	0.010	20.15204	30.00000	Quad		
20	1,1-Dichloroethene	0.14633	0.15539	0.15539	0.010	6.19431	30.00000	Aver		
21	Acrylonitrile	0.07616	0.08678	0.08678	0.010	13.94560	30.00000	Aver		
22	Freon 113	0.15418	0.15524	0.15524	0.010	0.69188	30.00000	Aver		
23	Methyl Acetate	0.24458	0.25867	0.25867	0.010	5.75864	30.00000	Aver		
24	Tert Butyl Alcohol (TBA)	0.18261	0.19401	0.19401	0.010	6.24369	30.00000	Aver		
25	Methylene chloride	0.13288	0.12491	0.12491	0.010	-6.00023	30.00000	Aver		
26	Allyl Chloride	0.02815	0.03015	0.03015	0.010	7.11040	30.00000	Aver		
27	Carbon Disulfide	0.16459	0.18530	0.18530	0.010	12.58583	30.00000	Aver		
28	trans-1,2-dichloroethene	0.07105	0.07616	0.07616	0.010	7.18618	30.00000	Aver		
29	Methyl Tert Butyl Ether	0.18305	0.19392	0.19392	0.010	5.93796	30.00000	Aver		
30	Vinyl Acetate	0.24291	0.28594	0.28594	0.010	17.71440	30.00000	Aver		
31	1,1-Dichloroethane	0.15414	0.16564	0.16564	0.010	7.46151	30.00000	Aver		
$ 32	Hexane-d14(S)	0.34275	0.33493	0.33493	0.010	-2.27921	30.00000	Aver		
33	Methyl Ethyl Ketone	0.03727	0.03656	0.03656	0.010	-1.91885	30.00000	Aver		
34	n-Hexane	0.17147	0.17089	0.17089	0.010	-0.33606	30.00000	Aver		
35	Di-isopropyl Ether	0.35577	0.34851	0.34851	0.010	-2.04181	30.00000	Aver		
36	Ethyl Acetate	0.24124	0.28246	0.28246	0.010	17.09014	30.00000	Aver		
37	cis-1,2-Dichloroethene	0.08726	0.09802	0.09802	0.010	12.32705	30.00000	Aver		
38	Ethyl Tert-Butyl Ether	0.32357	0.35692	0.35692	0.010	10.30733	30.00000	Aver		
39	Chloroform	0.18227	0.19830	0.19830	0.010	8.79153	30.00000	Aver		
40	Tetrahydrofuran	0.12801	0.14833	0.14833	0.010	15.87700	30.00000	Aver		
41	1,1,1-Trichloroethane	0.21412	0.23634	0.23634	0.010	10.37731	30.00000	Aver		
42	1,2-Dichloroethane	0.17697	0.18836	0.18836	0.010	6.43648	30.00000	Aver		

RRF GREATER THAN LABORATORY MINIMUM; NO VALIDATION ACTION TAKEN

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 22-MAR-2017 09:05
Lab File ID: 08102.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.28805	0.31690	0.31690	0.010	10.01227	30.00000	Aver		
	44 Carbon tetrachloride	0.20154	0.23711	0.23711	0.010	17.64444	30.00000	Aver		
	45 Cyclohexane	0.17372	0.19885	0.19885	0.010	14.46464	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.49870	0.28113	0.010	14.98696	30.00000	Line		
	48 2,2,4-Trimethylpentane	0.54027	0.59180	0.59180	0.010	9.53784	30.00000	Aver		
	49 Heptane	0.20304	0.23572	0.23572	0.010	16.09286	30.00000	Aver		
	50 1,2-Dichloropropane	0.11758	0.13322	0.13322	0.010	13.30216	30.00000	Aver		
	51 Trichloroethene	0.13467	0.14777	0.14777	0.010	9.72839	30.00000	Aver		
	52 Methyl methacrylate	0.09348	0.11117	0.11117	0.010	18.91564	30.00000	Aver		
	53 1,4-Dioxane	0.06410	0.07557	0.07557	0.010	17.88162	30.00000	Aver		
	54 Bromodichloromethane	0.20374	0.23749	0.23749	0.010	16.56926	30.00000	Aver		
	55 Methylcyclohexane	0.07695	0.08983	0.08983	0.010	16.74155	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.26760	0.32123	0.32123	0.010	20.04151	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.14748	0.18404	0.18404	0.010	24.78715	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	10.94912	0.17240	0.010	9.49116	30.00000	Line		
$	59 Toluene-d8 (S)	0.92086	0.91571	0.91571	0.010	-0.55970	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.11528	0.12952	0.12952	0.010	12.35159	30.00000	Aver		
	61 Toluene	0.33450	0.37948	0.37948	0.010	13.44792	30.00000	Aver		
	62 Methyl Butyl Ketone	25.00000	29.08593	0.43658	0.010	16.34371	30.00000	Quad		
	63 n-Octane	0.36754	0.46631	0.46631	0.010	26.87460	30.00000	Aver		
	64 Dibromochloromethane	0.26568	0.36153	0.36153	0.010	36.07895	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.25639	0.31973	0.31973	0.010	24.70268	30.00000	Aver		
	66 Tetrachloroethene	0.22684	0.27160	0.27160	0.010	19.73388	30.00000	Aver		
	68 Chlorobenzene	0.36404	0.43865	0.43865	0.010	20.49447	30.00000	Aver		
	69 Ethyl Benzene	0.57874	0.74205	0.74205	0.010	28.21790	30.00000	Aver		
	70 m&p-Xylene	20.00000	22.73943	0.55795	0.010	13.69716	30.00000	Quad		
	71 n-Nonane	0.30806	0.42559	0.42559	0.010	38.14936	30.00000	Aver		<-
	72 Bromoform	10.00000	10.99290	0.27205	0.010	9.92902	30.00000	Quad		
	73 Styrene	10.00000	11.15355	0.42180	0.010	11.53551	30.00000	Quad		
	74 o-Xylene	0.44491	0.56723	0.56723	0.010	27.49191	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	10.00000	11.15855	0.33832	0.010	11.58549	30.00000	Quad		
	76 Isopropylbenzene	0.59339	0.74866	0.74866	0.010	26.16655	30.00000	Aver		
	77 N-Propylbenzene	10.00000	11.37056	0.90226	0.010	13.70560	30.00000	Quad		
	78 4-Ethyltoluene	10.00000	11.33509	0.75216	0.010	13.35094	30.00000	Quad		
	79 1,3,5-Trimethylbenzene	10.00000	11.38702	0.62341	0.010	13.87020	30.00000	Quad		
	80 n-Decane	0.20034	0.29032	0.29032	0.010	44.91268	30.00000	Aver		<-
	81 Tert-Butyl Benzene	10.00000	11.47928	0.63217	0.010	14.79284	30.00000	Quad		
	82 1,2,4-Trimethylbenzene	10.00000	11.44152	0.56765	0.010	14.41524	30.00000	Quad		
	83 1,3-Dichlorobenzene	10.00000	11.37181	0.34628	0.010	13.71811	30.00000	Quad		
	84 Sec- Butylbenzene	10.00000	11.43986	0.81398	0.010	14.39863	30.00000	Quad		
$	85 1,4-dichlorobenzene-d4 (S)	0.48257	0.54447	0.54447	0.010	12.82706	30.00000	Aver		
	86 Benzyl Chloride	10.00000	11.36345	0.34834	0.010	13.63451	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032217.b\08102.D
Report Date: 22-Mar-2017 11:22

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 22-MAR-2017 09:05
Lab File ID: 08102.D Init. Cal. Date(s): 16-MAR-2017 16-MAR-2017
Analysis Type: AIR Init. Cal. Times: 09:16 12:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032217.b\TO15_075-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	10.00000	11.19946	0.33482	0.010	11.99464	30.00000	Quad	
88 p-Isopropyltoluene	10.00000	12.59635	0.67314	0.010	25.96350	30.00000	Line	
89 1,2,3-Trimethylbenzene	10.00000	11.30989	0.54704	0.010	13.09886	30.00000	Quad	
90 1,2-Dichlorobenzene	10.00000	11.57203	0.31335	0.010	15.72034	30.00000	Line	
91 N-Butylbenzene	10.00000	11.12389	0.55754	0.010	11.23887	30.00000	Quad	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.64013	0.11303	0.010	6.40133	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	11.04469	0.10013	0.010	10.44694	30.00000	Quad	
94 Naphthalene	10.00000	10.09732	0.30176	0.010	0.97322	30.00000	Line	
95 Hexachlorobutadiene	0.12598	0.12372	0.12372	0.010	-1.79610	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 13.13972
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Equation 1: Concentration of each component in the flask (Static Dilution Technique, section 10.4.1. S-MN-A-013 rev. 19).

$$\text{Concentration}(\text{mg/L}) = \frac{(V_i)(d)}{V_f}$$

where:

V_i =Volume of liquid neat standard injected into the flask in mL;
d=Density of the liquid neat standard in mg/mL;
V_f =Volume of the flask in liters.

Caution: In the preparation of standards by this technique, make sure that the volume of neat standard injected into the flask does not result in an overpressure due to the higher partial pressure produced by the standard compared to the vapor pressure in the flask.

Equation 2: First determine the volume of the compound as a gas.

$$V = \frac{nRT}{P} \quad \text{where,} \quad n = \frac{(V_i)(d)}{M}$$

where,
V=Volume of injected compound at STP in liters;
n=Moles;
R=Gas constant (0.08206 L-atm/mole ^{o}K);
T=Ambient temperature in ^{o}K;
P=Ambient pressure in atm;
V_i=Volume of liquid neat standard injected into the flask in mL;
d=Density of the neat standard in g/mL;
M=Molecular weight of the compound in g/mole.

Equation 3: Now calculate the concentration in the flask in ppbv.

$$\text{ppbv} = \frac{V}{V_f}(10^9)$$

where:
V=Gas volume of compound as determined in Eq. 8 in liters;
V_f=Volume of static dilution flask in liters.

Equation 4*:* The concentration in ppbv of each compound in the canister can be determined.

$$\text{ppbv} = \frac{(V_i)(C_x)}{V_c}$$

where:
V_i=Volume removed from static dilution flask and injected into the canister in liters;
C_x=Concentration of compound *x* in the static dilution flask in ppbv;
V_c=Final canister volume in liters.

Equation 5: Calculate the relative response factors (RRF) for each compound.

$$\text{Relative Response Factor (RRF)} = \frac{(A_x)(C_i)}{(A_i)(C_x)}$$

where,
A_x=Area of the primary ion for compound *x* to be measured;
A_i=Area of the primary ion for the internal standard associated with compound *x*;
C_i=Concentration of the internal standard in ppbv;
C_x =Concentration of compound *x* to be measured in ppbv.

Equation 6: Calculate the mean RRF for each compound.

$$\overline{R_f} = \frac{\sum_{n=5} R_f}{n}$$

where,
$\overline{R_f}$ =Average relative response factor;
R_f=Relative response factor from calibration curve;
n=Number of data points.

Equation 7: Standard Deviation.

$$\sigma_{(n-1)} = \sqrt{\sum_{i-1}^{n} \frac{(x_i - \bar{x})^2}{(n-1)}}$$

Equation 8: %Relative Standard Deviation (%RSD).

$$\%RSD = \frac{s_{(n-1)}}{\bar{R}_f} x100$$

Equation 9: Mean area response for Internal Standard.

$$\bar{y} = \sum_{i=1}^{n} \frac{y_i}{n}$$

where,

$\bar{y}$ = mean area response

y = Area response for the internal standard for each initial calibration standard

Equation 10: If a linear regression is used, the regression produces the slope and intercept terms for a linear equation.

y = ax + b

where:

y = instrument response (peak area or height)

a = Slope of the line (also called the coefficient of x)

x = Concentration of the calibration standard

b = the intercept, do not include the origin (0) as a calibration point

Equation 11: To calculate the sample concentration by the internal standard method using the linear regression.

$C_s=[(A_sC_{is}/A_{is})-b]/a$

where:

As = Area of the peak for the target analyte in the sample

Ais = Area of the peak of the internal standard

Cs = Concentration of the target analyte in the calibration standard

Cis = Concentration of the internal standard

a = Slope of the line (also called the coefficient of Cs)

b = The intercept

Equation 12: To calculate the coefficient of determination (or r^2) for a quadratic curve fit.

$$COD = \frac{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2 - \left(\frac{n-1}{n-p}\right)\sum_{i=1}^{n}(y_{obs} - Y_i)^2}{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2}$$

where:
y_{obs} = Observed response for each concentration from each initial calibration standard
y = Mean observed response from the initial calibration (See equation 6)
Y_i = Calculated response at each concentration from the initial calibration (See Equation 5)
n = Total number of calibration points in the equation, 6 points for quadratic
p = Number of adjustable parameters in the polynomial equation

Equation 13: Calculate the sample concentration by the internal standard method using the quadratic regression by comparing peak heights to the calibration curve.

Regression equation (quadratic):

$y = ax^2 + bx + c$

Equation 14: Percent Difference (%D). The % D in the RRF of the daily RRF of an individual compound compared to the mean RRF for that compound in the most recent calibration curve.

$$\%D = \frac{|R_i - R_c|}{R_i}(100)$$

where,

R_i=The average RRF from the initial calibration curve for compound *x*;
R_c=RRF for compound *x* from the CCV standard.

Equation 15: Calculate the percent recovery of the LCS.

$$\text{Percent Recovery} = \frac{C_q}{C_a}(100)$$

where:
C_q=Quantitated concentration of compound *x* in ppbv;
C_a=Actual concentration of compound *x* in ppbv.

Equation 16: Calculate the resultant dilution factor.

DF = (Pf + 14.7) / Pi + 14.7)

Pi = Pressure reading of canister prior to pressurization (psig)
Pf = Pressure reading of canister after pressurization (psig)
DF = Dilution factor

To convert Hg to psig:
Multiply by 0.491559 or divide by 2.036

PSIG reading is converted to One Atmosphere:
One Atmosphere = 14.7 psig = 29.21 inches of Hg

Equation 17: Calculate the concentration of the sample component.

$$C_x = \frac{(A_x)(C_i)(D_f)}{(A_i)(R_f)}$$

where:

C_x=Concentration of compound *x* in ppbv;
A_x=EICP area of the quantitation ion for compound *x*;
C_i=Concentration of the internal standard associated with compound *x* in ppbv;
D_f=Dilution factor from Equation 12 (if no dilution was performed, D_f equals 1.)
A_i=EICP area of the quantitation ion for the internal standard associated with compound *x*;
R_f=Average RRF for compound *x* from the most recent calibration curve.

Equation 18: The RPD between the sample and the sample duplicate.

$$RPD = \frac{|A - B|}{(A + B)/2} \times 100$$

Where:

RPD = Relative Percent Difference
A = Sample Value
B = Duplicate Value

Equation 19: Convert ppbv to µg/m³.

$$\frac{(x\ ppbv \times MW\frac{g}{mol})}{24.055\frac{L}{mol}} = y\frac{\mu g}{m^3}$$

Where:

MW = Molecular Weight
24.055 L/mol = Molar Volume of an ideal Gas

$$PV = nRT$$

$$V = \frac{nRT}{P}$$

Where:

V = Volume in liters
N = mols of ideal Gas (1 mol)
R = Ideal gas constant
T = Temperatire in Kelvin

$$V = \frac{(1mol) \times (0.082\ \frac{(L \times atm)}{(mol \times K)} \times 293.15K}{1\ atm}$$

$$V = 24.055\frac{L}{mol}$$

Equation 20: Preparation of Working TO15 Standard.

$$\frac{X}{Y} \times C = Z$$

Where:

X = Volume (L) spiked from stock
Y = Volume (L) of container
C = Concentration (ppbv) of Stock
Z = Concentration (ppbv) of working standard

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 04, 2017

Dallas Mellott
Tetra Tech
234 Mall Boulevard
King Of Prussia, PA 19406

RE: Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Dear Dallas Mellott:
Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Jon Byk, Tetra Tech
Priscilla Merta, Tetra Tech
Joseph Samchuck, Tetra Tech

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Date: April 04, 2017

VP-102_4.5_20170306 (Lab ID: 10381335001)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

L15-VP-7_30_20170306 (Lab ID: 10381335002)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-107_5_20170306 (Lab ID: 10381335003)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-107_13_20170306 (Lab ID: 10381335004)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-107_20_20170306 (Lab ID: 10381335005)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-107_33.5_20170306 (Lab ID: 10381335006)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-107_44_20170306 (Lab ID: 10381335007)

- 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.

VP-107_60_20170306 (Lab ID: 10381335008)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-107_74_20170306 (Lab ID: 10381335009)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-3_5_20170307 (Lab ID: 10381335010)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-3_10_20170307 (Lab ID: 10381335011)

- 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.

VP-3_20_20170307 (Lab ID: 10381335012)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-3D_40_20170307 (Lab ID: 10381335013)

- 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.

VP-3D_51_20170307 (Lab ID: 10381335014)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-3D_61_20170307 (Lab ID: 10381335015)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-3D_73_20170307 (Lab ID: 10381335016)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-108_5_20170307 (Lab ID: 10381335017)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Date: April 04, 2017

VP-108_10_20170307 (Lab ID: 10381335018)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-108_20_20170307 (Lab ID: 10381335019)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-108_29.5_20170307 (Lab ID: 10381335020)

- A3: This result is reported from a serial dilution.
- 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.

VP-108D_50.5_20170307 (Lab ID: 10381335021)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-108D_60_20170307 (Lab ID: 10381335022)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-108D_70_20170307 (Lab ID: 10381335023)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-108D_50.5_20170307 (Lab ID: 10381335024)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-3D_73_20170307DUP (Lab ID: 10381335025)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-3_5_20170307DUP (Lab ID: 10381335026)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

VP-3_30_20170307 (Lab ID: 10381335027)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: April 04, 2017

General Information:
27 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: 465793

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 2546083)
  - 1,2,4-Trichlorobenzene
  - Hexachloro-1,3-butadiene

QC Batch: 465981

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 2546891)
  - 1,2,4-Trichlorobenzene
  - Hexachloro-1,3-butadiene

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 465981

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2546891)
  - Chloropentafluoroethane

QC Batch: 466603

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2549872)
  - 1,1,2-Trichlorotrifluoroethane
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - 2-Butanone (MEK)
  - 2-Propanol
  - Acetone
  - Bromomethane
  - Carbon disulfide
  - Carbon tetrachloride
  - Chloroform
  - Methyl-tert-butyl ether
  - Trichlorofluoromethane

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: April 04, 2017

QC Batch: 466603

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- cis-1,2-Dichloroethene
- n-Hexane
- trans-1,2-Dichloroethene

- VP-107_44_20170306 (Lab ID: 10381335007)
  - Chloroform
  - cis-1,2-Dichloroethene
- VP-108_29.5_20170307 (Lab ID: 10381335020)
  - Chloroform
  - trans-1,2-Dichloroethene
- VP-3D_40_20170307 (Lab ID: 10381335013)
  - 1,1,2-Trichlorotrifluoroethane
  - 2-Butanone (MEK)
  - 2-Propanol
  - Acetone
  - Carbon disulfide
  - Chloroform
  - Trichlorofluoromethane
  - cis-1,2-Dichloroethene
  - n-Hexane
- VP-3_10_20170307 (Lab ID: 10381335011)
  - 1,1,2-Trichlorotrifluoroethane
  - Acetone
  - Chloroform
  - Trichlorofluoromethane
  - n-Hexane

QC Batch: 466636

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2550308)
  - Chloroform
  - trans-1,3-Dichloropropene

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 465793

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- LCS (Lab ID: 2546083)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: April 04, 2017

QC Batch: 465793

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- 1,2,4-Trichlorobenzene
- 2-Propanol
- Hexachloro-1,3-butadiene

QC Batch: 466603

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- LCS (Lab ID: 2549872)
  - 1,1,2-Trichlorotrifluoroethane
  - 2-Butanone (MEK)
  - 2-Propanol
  - Acetone
  - Chloroform
  - Trichlorofluoromethane
  - cis-1,2-Dichloroethene
  - n-Hexane
  - trans-1,2-Dichloroethene

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

- LCS (Lab ID: 2549872)
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - Bromomethane
  - Methyl-tert-butyl ether

QC Batch: 466636

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- LCS (Lab ID: 2550308)
  - Chloroform

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 465793

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure. This analyte was not present in the laboratory control sample due to the second source standard being used for the LCS.

- LCS (Lab ID: 2546083)
  - 1,2-Dibromo-3-chloropropane

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: April 04, 2017

Analyte Comments:

QC Batch: 465793

3M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.This analyte was not present in the laboratory control sample due to the second source standard being used for the LCS.

- LCS (Lab ID: 2546083)
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.

- L15-VP-7_30_20170306 (Lab ID: 10381335002)
  - cis-1,2-Dichloroethene

QC Batch: 465981

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2546891)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.

- VP-107_20_20170306 (Lab ID: 10381335005)
  - Trichloroethene
- VP-107_33.5_20170306 (Lab ID: 10381335006)
  - Trichloroethene
- VP-107_60_20170306 (Lab ID: 10381335008)
  - Trichloroethene

QC Batch: 466603

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2549872)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.

- VP-107_44_20170306 (Lab ID: 10381335007)
  - cis-1,2-Dichloroethene
  - 1,1,2-Trichlorotrifluoroethane
  - Trichloroethene

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: April 04, 2017

Analyte Comments:

QC Batch: 466636

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2550308)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

10381335

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26257

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE, NJ 08889
Email To: DALLAS.MELOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-05076.44

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☒ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-102_4.5_20170306	6L		3/6/17	1040	3/6/17	1410	-29	-8	2343	00356							X			001
2	LIS-VP-7_30_20170306				1035		1408	-29	-8	1751	06000							X			002
3	VP-107_5_20170306				0930		1308	-29	-8	2027	03766							X			003
4	VP-107_13_20170306				0930		1343	-30	-8	365	05300							X			004
5	VP-107_20_20170306				0930		1350	-30	-6.5	2122	01346							X			005
6	VP-107_33.5_20170306				0930		1341	-30	-8	2127	00411							X			006
7	VP-107_44_20170306				0930		1322	-29	-8	2100	04288							X			007
8	VP-107_60_20170306				0930		1338	-30	-8	975	03566							X			008
9	VP-107_74_20170306			↓	0930	↓	1312	-30	-8	2669	01299							X			009
10	VP-3_5_20170307			3/7/17	0814	3/7/17	1201	-30	-8	2312	00826							X			010
11	VP-3_10_20170307			3/7/17	0814	3/7/17	1235	-28	-4	149	01766							X			011
12	VP-3_20_20170307	↓		3/7/17	~~0814~~ 1005	3/7/17	1351	-29	-8.5	2336	00441							X			012

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	3/6/17	1248		3/8/17	12:48
	3/8/17	1345			

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: D. BRANCHCOMB

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 3/6/17

ORIGINAL

Pace Analytical®
www.pacelabs.com

10391335

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26258

Page: 2 of 3

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE, NJ 08889
Email To: DAVID.MELOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DAVID MELOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-05096.44

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15 X	TO15 Short List*	Pace Lab ID
1	VP-3D_40_20170307	6LC		3/7/17	0814	3/7/17	1200	-30	-8	2664	0033								X		013
2	VP-3D_51_20170307				0814		1155	-28	-8	4666	0597								X		014
3	VP-3D_61_20170307				0814		1153	-29	-8	466	0598								X		015
4	VP-3D_73_20170307				0814		1204	-30	-8	2091	0040								X		016
5	VP-108_5_20170307				0854		1354	-30	-9	805	0187								X		017
6	VP-108_10_20170307				0854		1325	-30	-8	433	0183								X		018
7	VP-108_20_20170307				0854		1209	-29	-7	507	0158								X		019
8	VP-108_29.5_20170307				0854		1244	-30	-8	2822	0145								X		020
9	VP-108D_50.5_20170307				0850		1235	-28	-7	657	0426								X		021
10	VP-108D_60_20170307				0850		1220	-30	-8	2815	0037								X		022
11	VP-108D_70_20170307				0850		1228	-30	-8	2688	0101								X		023
12	VP-108D_~~70~~ 80.5_20170307DUP	↓		↓	0850	↓	1235	-30	-9.5	2143	0051								X		024

Comments :

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	3/8/17	1240		3/8/17	12:48
	3/8/17	13:45			

SAMPLE CONDITIONS

	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
Temp in °C	Y/N	Y/N	Y/N	
	Received on Ice	Custody Sealed Cooler	Samples Intact	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical®
www.pacelabs.com

10396 1335

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26259

Section A Required Client Information:

Company: TETRA TECH
Address: 285 RT 226, SUITE 104E
WHITEHOUSE, NJ, 08889
Email To: DALLAS.MELIOTE@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELIOT
Copy To:
Purchase Order No.:
Project Name: LMR GREAT NECK
Project Number: 117-0327044

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☒ mg/m³ ☐ PPBV ☐ PPMV ☐ Other ☐

Report Level II. ☐ III. ☐ IV. ☐ Other ☐

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-3D_73_20170307DUP	6LC		3/7/17	0819	3/7/17	1204	-29	-7.5	2661	0429							X			025
2	VP-3_5_20170307DUP	6LC		3/7/17	0814	3/7/17	1201	-30	-8	2352	0049							X			026
3	VP-3_30_20170307	6LC		3/7/17	0814	3/7/17	1236	-30	-9	571	0386							X			027
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	3/8/17	1248		3/8/17	1248
	3/8/17	13:45			

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: D. Brockhoff
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 3/6/17

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Tetra Tech

Project #: WO# : 10381335

10381335

Courier: [X] Fed Ex [ ] UPS [ ] Speedee [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: SCUR Exception

Custody Seal on Cooler/Box Present? [X] Yes [ ] No **Seals Intact?** [X] Yes [ ] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Tin Can [ ] Other: **Temp Blank rec:** [ ] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): _____ **Corrected Temp (°C):** _____ **Thermom. Used:** [ ] B88A912167504 [ ] B88A0143310098 [ ] 151401163 [ ] 151401164

Temp should be above freezing to 6°C **Correction Factor:** AMB **Date & Initials of Person Examining Contents:** CLG 3/9/17

Type of ice Received [ ] Blue [ ] Wet [X] None

				Comments:
Chain of Custody Present?	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	[ ] N/A	3.
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	[ ] N/A	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	[ ] N/A	7.
Sufficient Volume?	[X] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used?	[X] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used?	[X] Yes	[ ] No	[ ] N/A	
Containers Intact?	[X] Yes	[ ] No	[ ] N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	[X] Yes	[ ] No	[ ] N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
VP-102-4.5	PACE2343	FC 0036	VP-3.10	0149	0176
LIS-VP-7.30	1751	0600	" -20	2336	0044
VP-102.5	2027	0376	VP-30.40	2664	0033
" " -13	0365	0530	" 51	0466	0597
" " -20	2122	0134	" 61	0046	0598
" " -33.5	2127	0041	" 73	2091	0040
" -44	2100	0426	VP-106.5	0805	0187
" -60	0975	0356	" -10	0433	0183
" -74	2669	0129	" -20	0507	0158
VP-3.5	2312	0082	" -29.5	2822	0145

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Nathan Roberg **Date:** 3/10/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt **Client Name:** **Project #:**

Courier: ☐Fed Ex ☐UPS ☐Speedee ☐Client ☐Commercial ☐Pace ☐Other:_____

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐Yes ☐No **Seals Intact?** ☐Yes ☐No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☐Foam ☐None ☐Tin Can ☐Other:_____ **Temp Blank rec:** ☐Yes ☐No

Temp. (TO17 and TO13 samples only) (°C): _____ **Corrected Temp (°C):** _____ **Thermom. Used:** ☐B88A912167504 ☐B88A0143310098 ☐151401163 ☐151401164

Temp should be above freezing to 6°C **Correction Factor:** _____ **Date & Initials of Person Examining Contents:** _____

Type of ice Received ☐Blue ☐Wet ☐None

				Comments:
Chain of Custody Present?	☐Yes	☐No	☐N/A	1.
Chain of Custody Filled Out?	☐Yes	☐No	☐N/A	2.
Chain of Custody Relinquished?	☐Yes	☐No	☐N/A	3.
Sampler Name and/or Signature on COC?	☐Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time?	☐Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72 hr)?	☐Yes	☐No	☐N/A	6.
Rush Turn Around Time Requested?	☐Yes	☐No	☐N/A	7.
Sufficient Volume?	☐Yes	☐No	☐N/A	8.
Correct Containers Used?	☐Yes	☐No	☐N/A	9.
-Pace Containers Used?	☐Yes	☐No	☐N/A	
Containers Intact?	☐Yes	☐No	☐N/A	10.
Media: Air Can Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☐Yes	☐No	☐N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
VP-10BO-50.5	0657	0426			
" -60	2815	0037			
" -70	1641	0103			
" -50.5	2143	0051			
VP-30-73	2661	0429			
VP-3-5	2352	0049			
VP-3-30	0571	0386			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

SCUR Exceptions: **Workorder #:**

Issue	Sample ID	Container Type/#
Tracking #'s		
776603937060		
776603936225		
" " 6707		
" " 6876		
" " 7059		
" " 6762		
" " 6155		
" " 6924		
" " 6512		

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH Upon Receipt	Date Preservation Adjusted	Time Preservation Adjusted	Amount of Additional Preservative Added	Lot # of Preservative Added	pH After Adjustment	Initials

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: UST-078
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: MN00064
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia WW Certification #: 382
Wisconsin Certification #: 999407970
Wyoming via EPA Region 8 Certification #: 8TMS-L

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10381335001
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335002
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335003
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335004
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335005
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335006
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335007
[1] 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335008
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335009
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335010
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

SAMPLE QUALIFIERS

Sample: 10381335011
[1] 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335012
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335013
[1] 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335014
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335015
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335016
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335017
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335018
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335019
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335020
[1] This result is reported from a serial dilution.
[2] 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335021
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335022
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335023
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335024
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335025
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335026
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335027
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

ANALYTE QUALIFIERS

1M This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
2M This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure. This analyte was not present in the laboratory control sample due to the second source standard being used for the LCS.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

ANALYTE QUALIFIERS

3M	This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.This analyte was not present in the laboratory control sample due to the second source standard being used for the LCS.
A3	The sample was analyzed by serial dilution.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10381335001	**VP-102_4.5_20170306**	Air	03/06/17 14:10	03/09/17 09:30
10381335002	**L15-VP-7_30_20170306**	Air	03/06/17 14:08	03/09/17 09:30
10381335003	**VP-107_5_20170306**	Air	03/06/17 13:08	03/09/17 09:30
10381335004	**VP-107_13_20170306**	Air	03/06/17 13:43	03/09/17 09:30
10381335005	**VP-107_20_20170306**	Air	03/06/17 13:50	03/09/17 09:30
10381335006	**VP-107_33.5_20170306**	Air	03/06/17 13:41	03/09/17 09:30
10381335007	**VP-107_44_20170306**	Air	03/06/17 13:22	03/09/17 09:30
10381335008	**VP-107_60_20170306**	Air	03/06/17 13:38	03/09/17 09:30
10381335009	**VP-107_74_20170306**	Air	03/06/17 13:12	03/09/17 09:30
10381335010	**VP-3_5_20170307**	Air	03/07/17 12:01	03/09/17 09:30
10381335011	**VP-3_10_20170307**	Air	03/07/17 12:35	03/09/17 09:30
10381335012	**VP-3_20_20170307**	Air	03/07/17 13:51	03/09/17 09:30
10381335013	**VP-3D_40_20170307**	Air	03/07/17 12:00	03/09/17 09:30
10381335014	**VP-3D_51_20170307**	Air	03/07/17 11:55	03/09/17 09:30
10381335015	**VP-3D_61_20170307**	Air	03/07/17 11:53	03/09/17 09:30
10381335016	**VP-3D_73_20170307**	Air	03/07/17 12:04	03/09/17 09:30
10381335017	**VP-108_5_20170307**	Air	03/07/17 13:54	03/09/17 09:30
10381335018	**VP-108_10_20170307**	Air	03/07/17 13:25	03/09/17 09:30
10381335019	**VP-108_20_20170307**	Air	03/07/17 12:09	03/09/17 09:30
10381335020	**VP-108_29.5_20170307**	Air	03/07/17 12:44	03/09/17 09:30
10381335021	**VP-108D_50.5_20170307**	Air	03/07/17 12:35	03/09/17 09:30
10381335022	**VP-108D_60_20170307**	Air	03/07/17 12:20	03/09/17 09:30
10381335023	**VP-108D_70_20170307**	Air	03/07/17 12:28	03/09/17 09:30
10381335024	**VP-108D_50.5_20170307**	Air	03/07/17 12:35	03/09/17 09:30
10381335025	**VP-3D_73_20170307DUP**	Air	03/07/17 12:04	03/09/17 09:30
10381335026	**VP-3_5_20170307DUP**	Air	03/07/17 12:01	03/09/17 09:30
10381335027	**VP-3_30_20170307**	Air	03/07/17 12:36	03/09/17 09:30
10381335028	**Unused#2660**	Air	03/06/17 00:00	03/09/17 09:30
10381335029	**Unused#2145**	Air	03/06/17 00:00	03/09/17 09:30
10381335030	**Unused#0511**	Air	03/06/17 00:00	03/09/17 09:30
10381335031	**Unused#2149**	Air	03/06/17 00:00	03/09/17 09:30
10381335032	**Unused#0123**	Air	03/06/17 00:00	03/09/17 09:30

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10381335001	**VP-102_4.5_20170306**	TO-15	NCK	62
10381335002	**L15-VP-7_30_20170306**	TO-15	NCK	62
10381335003	**VP-107_5_20170306**	TO-15	NCK	62
10381335004	**VP-107_13_20170306**	TO-15	NCK	62
10381335005	**VP-107_20_20170306**	TO-15	NCK	62
10381335006	**VP-107_33.5_20170306**	TO-15	NCK	62
10381335007	**VP-107_44_20170306**	TO-15	NCK	62
10381335008	**VP-107_60_20170306**	TO-15	NCK	62
10381335009	**VP-107_74_20170306**	TO-15	NCK	62
10381335010	**VP-3_5_20170307**	TO-15	NCK	62
10381335011	**VP-3_10_20170307**	TO-15	NCK	62
10381335012	**VP-3_20_20170307**	TO-15	NCK	62
10381335013	**VP-3D_40_20170307**	TO-15	NCK	62
10381335014	**VP-3D_51_20170307**	TO-15	NCK	62
10381335015	**VP-3D_61_20170307**	TO-15	NCK	62
10381335016	**VP-3D_73_20170307**	TO-15	NCK	62
10381335017	**VP-108_5_20170307**	TO-15	NCK	62
10381335018	**VP-108_10_20170307**	TO-15	NCK	62
10381335019	**VP-108_20_20170307**	TO-15	NCK	62
10381335020	**VP-108_29.5_20170307**	TO-15	NCK	62
10381335021	**VP-108D_50.5_20170307**	TO-15	DR1	62
10381335022	**VP-108D_60_20170307**	TO-15	NCK	62
10381335023	**VP-108D_70_20170307**	TO-15	NCK	62
10381335024	**VP-108D_50.5_20170307**	TO-15	DR1	62
10381335025	**VP-3D_73_20170307DUP**	TO-15	NCK	62
10381335026	**VP-3_5_20170307DUP**	TO-15	NCK	62
10381335027	**VP-3_30_20170307**	TO-15	NCK	62

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 465793 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08623_28019.D Lab Sample ID: 2546082
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 19:49
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-102_4.5_20170306	10381335001	08636.D	02:50
02	L15-VP-7_30_20170306	10381335002	08637.D	03:22
03	VP-107_5_20170306	10381335003	08638.D	03:53

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 465981 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08708_28028.D Lab Sample ID: 2546890
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 12:52
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-107_13_20170306	10381335004	08717.D	17:33
02	VP-3_5_20170307	10381335010	08719.D	18:36
03	VP-108_5_20170307	10381335017	08720.D	19:08
04	VP-3_5_20170307DUP	10381335026	08722.D	20:11
05	VP-108_10_20170307	10381335018	08723.D	20:43
06	VP-108_20_20170307	10381335019	08724.D	21:14
07	VP-3_20_20170307	10381335012	08725.D	21:46
08	VP-108D_60_20170307	10381335022	08726.D	22:17
09	VP-3_30_20170307	10381335027	08728.D	23:14
10	VP-3D_61_20170307	10381335015	08729.D	23:42
11	VP-3D_51_20170307	10381335014	08732.D	01:05
12	VP-3D_73_20170307	10381335016	08733.D	01:33
13	VP-108D_70_20170307	10381335023	08734.D	02:01
14	VP-3D_73_20170307DUP	10381335025	08735.D	02:28
15	VP-107_33.5_20170306	10381335006	08736.D	02:57
16	VP-107_60_20170306	10381335008	08737.D	03:25
17	VP-107_74_20170306	10381335009	08738.D	03:53
18	VP-107_20_20170306	10381335005	08739.D	04:20

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 466603 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08934_28049.D Lab Sample ID: 2549871
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 04:29
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-3_10_20170307	10381335011	08936.D	05:31
02	VP-3D_40_20170307	10381335013	08937.D	06:02
03	VP-107_44_20170306	10381335007	08938.D	06:30
04	VP-108_29.5_20170307	10381335020	08941.D	07:53
05	VP-108_29.5_20170307	10381335020	09127.D	20:45

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 466636 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09205L.D Lab Sample ID: 2550307
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 10:38
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-108D_50.5_20170307	10381335021	09206.D	11:06
02	VP-108D_50.5_20170307	10381335024	09208.D	12:01

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08609BFB.D BFB Injection Date: 03/27/2017
Instrument ID: 10AIRB BFB Injection Time: 12:41
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.91	
75	30.00 - 66.00% of mass 95	45.18	
96	5.00 - 9.00% of mass 95	6.40	
173	Less than 2.00% of mass 174	0.98	(1.13)
174	50.00 - 120.00% of mass 95	87.16	
175	4.00 - 9.00% of mass 174	6.19	(7.11)
176	93.00 - 101.00% of mass 174	85.14	(97.69)
177	5.00 - 9.00% of mass 176	5.34	(6.28)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	08610.D	03/27/2017	13:08
2	CAL2	CAL2	08611.D	03/27/2017	13:36
3	CAL3	CAL3	08612.D	03/27/2017	14:03
4	CAL4	CAL4	08613.D	03/27/2017	14:31
5	CAL5	CAL5	08614.D	03/27/2017	14:58
6	CAL6	CAL6	08615.D	03/27/2017	15:27
7	CAL7	CAL7	08616.D	03/27/2017	15:56
8	LCS for HBN 465793 [AIR/28019]	2546083	08618_28019.D	03/27/2017	16:52
9	ICV	ICV	08618.D	03/27/2017	16:52
10	BLANK for HBN 465793 [AIR/2801	2546082	08623_28019.D	03/27/2017	19:49
11	VP-102_4.5_20170306	10381335001	08636.D	03/28/2017	02:50
12	L15-VP-7_30_20170306	10381335002	08637.D	03/28/2017	03:22
13	VP-107_5_20170306	10381335003	08638.D	03/28/2017	03:53

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08701BFB.D BFB Injection Date: 03/28/2017
Instrument ID: 10AIRB BFB Injection Time: 09:23
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.40	
75	30.00 - 66.00% of mass 95	45.27	
96	5.00 - 9.00% of mass 95	6.62	
173	Less than 2.00% of mass 174	0.81	(0.94)
174	50.00 - 120.00% of mass 95	86.07	
175	4.00 - 9.00% of mass 174	6.33	(7.36)
176	93.00 - 101.00% of mass 174	82.58	(95.93)
177	5.00 - 9.00% of mass 176	5.65	(6.84)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 465981 [AIR/28028]	2546891	08702_28028.D	03/28/2017	09:50
2	CCV	CCV	08702.D	03/28/2017	09:50
3	BLANK for HBN 465981 [AIR/2802	2546890	08708_28028.D	03/28/2017	12:52
4	CERT	CERT	08709.D	03/28/2017	13:22
5	VP-107_13_20170306	10381335004	08717.D	03/28/2017	17:33
6	VP-107_13_20170306(2533062DUP)	2547455-DUP	08718.D	03/28/2017	18:04
7	VP-3_5_20170307	10381335010	08719.D	03/28/2017	18:36
8	VP-108_5_20170307	10381335017	08720.D	03/28/2017	19:08
9	VP-3_5_20170307DUP	10381335026	08722.D	03/28/2017	20:11
10	VP-108_10_20170307	10381335018	08723.D	03/28/2017	20:43
11	VP-108_20_20170307	10381335019	08724.D	03/28/2017	21:14
12	VP-3_20_20170307	10381335012	08725.D	03/28/2017	21:46
13	VP-108D_60_20170307	10381335022	08726.D	03/28/2017	22:17
14	VP-3_30_20170307	10381335027	08728.D	03/28/2017	23:14
15	VP-3D_61_20170307	10381335015	08729.D	03/28/2017	23:42
16	VP-3D_51_20170307	10381335014	08732.D	03/29/2017	01:05
17	VP-3D_73_20170307	10381335016	08733.D	03/29/2017	01:33
18	VP-108D_70_20170307	10381335023	08734.D	03/29/2017	02:01
19	VP-3D_73_20170307DUP	10381335025	08735.D	03/29/2017	02:28
20	VP-107_33.5_20170306	10381335006	08736.D	03/29/2017	02:57
21	VP-107_60_20170306	10381335008	08737.D	03/29/2017	03:25
22	VP-107_74_20170306	10381335009	08738.D	03/29/2017	03:53
23	VP-107_20_20170306	10381335005	08739.D	03/29/2017	04:20

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08801BFB.D BFB Injection Date: 03/29/2017
Instrument ID: 10AIRB BFB Injection Time: 08:28
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.10	
75	30.00 - 66.00% of mass 95	45.68	
96	5.00 - 9.00% of mass 95	6.94	
173	Less than 2.00% of mass 174	0.94	(1.16)
174	50.00 - 120.00% of mass 95	81.42	
175	4.00 - 9.00% of mass 174	5.88	(7.23)
176	93.00 - 101.00% of mass 174	80.10	(98.39)
177	5.00 - 9.00% of mass 176	5.23	(6.52)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	08802.D	03/29/2017	08:57
2	IC	IC	08812.D	03/29/2017	14:07
3	CERT	CERT	08813.D	03/29/2017	14:37
4	L15-VP-7_30_20170306	10381335002	08839.D	03/30/2017	04:09

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08841BFB.D BFB Injection Date: 03/30/2017
Instrument ID: 10AIRB BFB Injection Time: 05:04
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.87	
75	30.00 - 66.00% of mass 95	44.23	
96	5.00 - 9.00% of mass 95	6.62	
173	Less than 2.00% of mass 174	1.08	(1.27)
174	50.00 - 120.00% of mass 95	84.66	
175	4.00 - 9.00% of mass 174	6.19	(7.31)
176	93.00 - 101.00% of mass 174	81.97	(96.82)
177	5.00 - 9.00% of mass 176	5.09	(6.21)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL2	CAL2	08842.D	03/30/2017	05:32
2	CAL3	CAL3	08843.D	03/30/2017	05:59
3	CAL4	CAL4	08844.D	03/30/2017	06:27
4	CAL5	CAL5	08849.D	03/30/2017	09:10
5	CAL6	CAL6	08850.D	03/30/2017	09:39
6	CAL7	CAL7	08851.D	03/30/2017	10:08
7	ICV	ICV	08853.D	03/30/2017	11:03

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08931BFB.D BFB Injection Date: 03/31/2017
Instrument ID: 10AIRB BFB Injection Time: 03:03
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.11	
75	30.00 - 66.00% of mass 95	46.06	
96	5.00 - 9.00% of mass 95	6.85	
173	Less than 2.00% of mass 174	0.82	(0.95)
174	50.00 - 120.00% of mass 95	86.24	
175	4.00 - 9.00% of mass 174	5.94	(6.88)
176	93.00 - 101.00% of mass 174	82.20	(95.31)
177	5.00 - 9.00% of mass 176	5.13	(6.24)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	08932.D	03/31/2017	03:32
2	LCS for HBN 466603 [AIR/28049]	2549872	08932_28049.D	03/31/2017	03:32
3	2547845 (LCS)	2547845	08932_28033.D	03/31/2017	03:32
4	BLANK for HBN 466603 [AIR/2804	2549871	08934_28049.D	03/31/2017	04:29
5	CERT	CERT	08935.D	03/31/2017	05:00
6	VP-3_10_20170307	10381335011	08936.D	03/31/2017	05:31
7	VP-3D_40_20170307	10381335013	08937.D	03/31/2017	06:02
8	VP-107_44_20170306	10381335007	08938.D	03/31/2017	06:30
9	VP-108_29.5_20170307	10381335020	08941.D	03/31/2017	07:53
10	VP-108_20_20170307	10381335019	08947.D	03/31/2017	10:50
11	VP-107_60_20170306	10381335008	08948.D	03/31/2017	11:19

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09001BFB.D BFB Injection Date: 03/31/2017
Instrument ID: 10AIRB BFB Injection Time: 15:14
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.92	
75	30.00 - 66.00% of mass 95	43.75	
96	5.00 - 9.00% of mass 95	6.59	
173	Less than 2.00% of mass 174	0.97	(1.19)
174	50.00 - 120.00% of mass 95	81.14	
175	4.00 - 9.00% of mass 174	5.85	(7.21)
176	93.00 - 101.00% of mass 174	79.13	(97.53)
177	5.00 - 9.00% of mass 176	5.26	(6.65)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	09002.D	03/31/2017	15:41
2	CAL2	CAL2	09003.D	03/31/2017	16:09
3	CAL3	CAL3	09004.D	03/31/2017	16:36
4	CAL4	CAL4	09005.D	03/31/2017	17:04
5	CAL5	CAL5	09006.D	03/31/2017	17:31
6	CAL6	CAL6	09007.D	03/31/2017	17:59
7	CAL7	CAL7	09008.D	03/31/2017	18:28
8	LCS (LCS)	LCS	09010_LCS.D	03/31/2017	19:23
9	ICV	ICV	09010.D	03/31/2017	19:23

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09101BFB.D BFB Injection Date: 04/01/2017
Instrument ID: 10AIRB BFB Injection Time: 07:03
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.54	
75	30.00 - 66.00% of mass 95	44.94	
96	5.00 - 9.00% of mass 95	6.30	
173	Less than 2.00% of mass 174	0.74	(0.91)
174	50.00 - 120.00% of mass 95	81.59	
175	4.00 - 9.00% of mass 174	5.88	(7.21)
176	93.00 - 101.00% of mass 174	77.79	(95.34)
177	5.00 - 9.00% of mass 176	4.89	(6.29)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	09102.D	04/01/2017	07:31
2	CERT	CERT	09105.D	04/01/2017	09:04
3	VP-107_20_20170306	10381335005	09124.D	04/01/2017	19:21
4	VP-107_33.5_20170306	10381335006	09125.D	04/01/2017	19:50
5	VP-108D_60_20170307	10381335022	09126.D	04/01/2017	20:17
6	VP-108_29.5_20170307	10381335020	09127.D	04/01/2017	20:45

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09201BFB.D BFB Injection Date: 04/02/2017
Instrument ID: 10AIRB BFB Injection Time: 08:27
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.27	
75	30.00 - 66.00% of mass 95	45.31	
96	5.00 - 9.00% of mass 95	6.44	
173	Less than 2.00% of mass 174	0.86	(1.05)
174	50.00 - 120.00% of mass 95	81.71	
175	4.00 - 9.00% of mass 174	6.01	(7.36)
176	93.00 - 101.00% of mass 174	79.22	(96.95)
177	5.00 - 9.00% of mass 176	5.00	(6.31)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	09202.D	04/02/2017	08:56
2	LCS for HBN 466636 [AIR/28055]	2550308	09202L.D	04/02/2017	08:56
3	BLANK for HBN 466636 [AIR/2805	2550307	09205L.D	04/02/2017	10:38
4	VP-108D_50.5_20170307	10381335021	09206.D	04/02/2017	11:06
5	VP-108D_50.5_20...(2533120DUP)	2550945-DUP	09207.D	04/02/2017	11:33
6	VP-108D_50.5_20170307	10381335024	09208.D	04/02/2017	12:01

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09301BFB.D BFB Injection Date: 04/03/2017
Instrument ID: 10AIRB BFB Injection Time: 09:44
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.24	
75	30.00 - 66.00% of mass 95	43.51	
96	5.00 - 9.00% of mass 95	6.30	
173	Less than 2.00% of mass 174	1.01	(1.25)
174	50.00 - 120.00% of mass 95	81.24	
175	4.00 - 9.00% of mass 174	6.03	(7.42)
176	93.00 - 101.00% of mass 174	77.00	(94.78)
177	5.00 - 9.00% of mass 176	4.66	(6.05)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	09302.D	04/03/2017	10:12
2	IC	IC	09308.D	04/03/2017	13:14
3	VP-107_44_20170306	10381335007	09334.D	04/04/2017	03:31

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09401BFB.D BFB Injection Date: 04/04/2017
Instrument ID: 10AIRB BFB Injection Time: 08:39
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.99	
75	30.00 - 66.00% of mass 95	43.59	
96	5.00 - 9.00% of mass 95	6.31	
173	Less than 2.00% of mass 174	0.74	(0.89)
174	50.00 - 120.00% of mass 95	83.26	
175	4.00 - 9.00% of mass 174	6.02	(7.22)
176	93.00 - 101.00% of mass 174	82.45	(99.03)
177	5.00 - 9.00% of mass 176	5.25	(6.37)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	09402.D	04/04/2017	09:07
2	IC	IC	09405.D	04/04/2017	10:37
3	VP-107_44_20170306	10381335007	09410.D	04/04/2017	13:10

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/28/2017

Lab File ID (Standard): 08702.D Time Analyzed: 09:50

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
21	24 HOUR STANDARD	2324391	5.610	1528809	8.642
21	UPPER LIMIT	4648782	6.110	3057618	9.142
21	LOWER LIMIT	1162196	5.110	764404	8.142
21	EPA SAMPLE NO.				
21	LCS for HBN 465981 [AIR/28028]	2324391	5.610	1528809	8.642
21	BLANK for HBN 465981 [AIR/2802	2800081	5.597	1591707	8.639
21	VP-107_13_20170306	2493282	5.597	1466500	8.636
21	VP-107_13_20170306(2533062DUP)	2606977	5.594	1536032	8.636
21	VP-3_5_20170307	2519653	5.597	1502498	8.639
21	VP-108_5_20170307	2170292	5.597	1361067	8.636
21	VP-3_5_20170307DUP	2305260	5.601	1421077	8.636
21	VP-108_10_20170307	2339832	5.597	1468323	8.636
21	VP-108_20_20170307	2429742	5.594	1447778	8.642
21	VP-3_20_20170307	2464097	5.597	1457346	8.636
21	VP-108D_60_20170307	2412472	5.607	1453980	8.639
21	VP-3_30_20170307	2317502	5.594	1369331	8.636
21	VP-3D_61_20170307	2264942	5.594	1345900	8.636
21	VP-3D_51_20170307	2296930	5.594	1354736	8.636
21	VP-3D_73_20170307	2279064	5.591	1313580	8.636
21	VP-108D_70_20170307	2280331	5.600	1288681	8.636
21	VP-3D_73_20170307DUP	2368600	5.597	1380810	8.636
21	VP-107_33.5_20170306	2222222	5.613	1336756	8.642
21	VP-107_60_20170306	2126529	5.604	1284486	8.639
21	VP-107_74_20170306	2188820	5.604	1291375	8.639
21	VP-107_20_20170306	2319267	5.607	1319468	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/29/2017

Lab File ID (Standard): 08802.D Time Analyzed: 08:57

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
01	24 HOUR STANDARD	1994472	5.613	1284022	8.645
01	UPPER LIMIT	3988944	6.113	2568044	9.145
01	LOWER LIMIT	997236	5.113	642011	8.145
01	EPA SAMPLE NO.				
01	L15-VP-7_30_20170306	2371711	5.601	1302333	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/31/2017

Lab File ID (Standard): 08932.D Time Analyzed: 03:32

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
08	24 HOUR STANDARD	1818534	5.674	1176029	8.677
08	UPPER LIMIT	3637068	6.174	2352058	9.177
08	LOWER LIMIT	909267	5.174	588014	8.177
08	EPA SAMPLE NO.				
08	LCS for HBN 466603 [AIR/28049]	1818534	5.674	1176029	8.677
08	BLANK for HBN 466603 [AIR/2804	2124388	5.639	1240051	8.658
08	VP-3_10_20170307	1958186	5.642	1121217	8.662
08	VP-3D_40_20170307	2076476	5.645	1205749	8.661
08	VP-107_44_20170306	1770470	5.658	1085406	8.661
08	VP-108_29.5_20170307	2228365	5.655	1229652	8.678
08	VP-108_20_20170307	1815233	5.594	1073029	8.639
08	VP-107_60_20170306	2017470	5.600	1102026	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 04/01/2017

Lab File ID (Standard): 09102.D Time Analyzed: 07:31

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
04	24 HOUR STANDARD	1786987	5.610	1144863	8.642
04	UPPER LIMIT	3573974	6.110	2289726	9.142
04	LOWER LIMIT	893494	5.110	572432	8.142
04	EPA SAMPLE NO.				
04	VP-107_20_20170306	1978817	5.604	1094208	8.639
04	VP-107_33.5_20170306	1974294	5.597	1091777	8.636
04	VP-108D_60_20170307	1723817	5.597	987996	8.636
04	VP-108_29.5_20170307	1975328	5.601	1100695	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 04/02/2017

Lab File ID (Standard): 09202.D Time Analyzed: 08:56

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
05	24 HOUR STANDARD	1675579	5.613	1077441	8.645
05	UPPER LIMIT	3351158	6.113	2154882	9.145
05	LOWER LIMIT	837790	5.113	538720	8.145
05	EPA SAMPLE NO.				
05	LCS for HBN 466636 [AIR/28055]	1675579	5.613	1077441	8.645
05	BLANK for HBN 466636 [AIR/2805	2039287	5.597	1161302	8.636
05	VP-108D 50.5 20170307	1990150	5.597	1106887	8.636
05	VP-108D 50.5 20...(2533120DUP)	1992160	5.597	1099734	8.636
05	VP-108D_50.5_20170307	1982839	5.600	1090755	8.636

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 04/03/2017

Lab File ID (Standard): 09302.D Time Analyzed: 10:12

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
01	24 HOUR STANDARD	1676809	5.617	1087123	8.645
01	UPPER LIMIT	3353618	6.117	2174246	9.145
01	LOWER LIMIT	838404	5.117	543562	8.145
01	EPA SAMPLE NO.				
01	VP-107_44_20170306	2032575	5.601	1122850	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 04/04/2017

Lab File ID (Standard): 09402.D Time Analyzed: 09:07

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
01	24 HOUR STANDARD	1630730	5.613	994472	8.646
01	UPPER LIMIT	3261460	6.113	1988944	9.146
01	LOWER LIMIT	815365	5.113	497236	8.146
01	EPA SAMPLE NO.				
01	VP-107_44_20170306	1855559	5.597	1018844	8.636

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-102_4.5_20170306 **Lab ID: 10381335001** Collected: 03/06/17 14:10 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**422**	ug/m3	4.2	1.5	1.75		03/28/17 02:50	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/28/17 02:50	107-05-1	
Benzene	**1.0**	ug/m3	0.57	0.21	1.75		03/28/17 02:50	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/28/17 02:50	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/28/17 02:50	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/28/17 02:50	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/28/17 02:50	106-99-0	
2-Butanone (MEK)	**10.7**	ug/m3	5.2	0.40	1.75		03/28/17 02:50	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/28/17 02:50	75-15-0	
Carbon tetrachloride	**0.57J**	ug/m3	1.1	0.34	1.75		03/28/17 02:50	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/28/17 02:50	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/28/17 02:50	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/28/17 02:50	75-00-3	
Chloroform	**0.59J**	ug/m3	0.87	0.33	1.75		03/28/17 02:50	67-66-3	
Chloromethane	**1.1**	ug/m3	0.74	0.19	1.75		03/28/17 02:50	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 02:50	76-15-3	
Cyclohexane	**5.6**	ug/m3	1.2	0.55	1.75		03/28/17 02:50	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/28/17 02:50	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/28/17 02:50	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/28/17 02:50	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/28/17 02:50	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/28/17 02:50	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/28/17 02:50	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.84	1.75		03/28/17 02:50	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/28/17 02:50	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/28/17 02:50	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 02:50	75-35-4	
cis-1,2-Dichloroethene	**8.2**	ug/m3	1.4	0.43	1.75		03/28/17 02:50	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/28/17 02:50	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/28/17 02:50	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/28/17 02:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	4.0	0.46	1.75		03/28/17 02:50	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/28/17 02:50	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 02:50	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/28/17 02:50	123-91-1	
Ethylbenzene	**2.6**	ug/m3	1.5	0.74	1.75		03/28/17 02:50	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/28/17 02:50	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/28/17 02:50	87-68-3	
n-Hexane	**6.5**	ug/m3	1.3	0.62	1.75		03/28/17 02:50	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/28/17 02:50	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/28/17 02:50	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/28/17 02:50	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 02:50	108-87-2	
Methylene Chloride	**9.5**	ug/m3	6.2	0.95	1.75		03/28/17 02:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/28/17 02:50	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/28/17 02:50	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D
Report Date: 30-Mar-2017 19:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08636.D
Lab Smp Id: 10381335001
Inj Date : 28-MAR-2017 02:50
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28019
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 30-Mar-2017 19:28 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 36
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	2.976	3.008	(0.532)	23061	0.79399	1.39(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.028	3.044	(0.541)	46401	0.33027	0.578(M)	
6	Chloromethane	50	3.121	3.147	(0.557)	17942	0.30965	0.542	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.536	3.558	(0.631)	327907	19.3763	33.9	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.642	3.680	(0.650)	14363	0.14605	0.256	
17	Acrolein	56	3.665	3.696	(0.654)	11504	0.74384	1.30(H)	
18	Acetone	43	3.706	3.735	(0.662)	6656338	99.8236	175	
19	Isopropyl Alcohol	45	3.758	3.786	(0.671)	1184947	15.7876	27.6(M)	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.931	3.957	(0.702)	7276	0.09213	0.161(Q)	
23	Methyl Acetate	43	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D
Report Date: 30-Mar-2017 19:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
25	Methylene chloride	49	4.009	4.015	(0.716)	78784	1.54123	2.70	
26	Allyl Chloride	76	Compound Not Detected.						(D)
27	Carbon Disulfide	76	Compound Not Detected.						
28	trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
29	Methyl Tert Butyl Ether	73	Compound Not Detected.						
30	Vinyl Acetate	43	4.433	4.404	(0.792)	79476	0.70860	1.24	
31	1,1-Dichloroethane	63	Compound Not Detected.						(D)
$ 32	Hexane-d14(S)	66	4.472	4.494	(0.798)	915008	9.55689	9.56	
33	Methyl Ethyl Ketone	72	4.552	4.568	(0.813)	41603	2.03581	3.56(Q)	
34	n-Hexane	57	4.571	4.590	(0.816)	78677	1.04205	1.82(Q)	
35	Di-isopropyl Ether	45	Compound Not Detected.						
36	Ethyl Acetate	43	Compound Not Detected.						(D)
37	cis-1,2-Dichloroethene	96	4.713	4.738	(0.842)	49191	1.16194	2.03(Q)	
38	Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
39	Chloroform	83	4.825	4.854	(0.862)	5698	0.06785	0.119	
40	Tetrahydrofuran	42	Compound Not Detected.						(D)
41	1,1,1-Trichloroethane	97	Compound Not Detected.						
42	1,2-Dichloroethane	62	Compound Not Detected.						
43	Benzene	78	5.455	5.478	(0.974)	26032	0.17683	0.309	
44	Carbon tetrachloride	117	5.472	5.497	(0.977)	5367	0.05089	0.0891	
45	Cyclohexane	56	5.472	5.497	(0.977)	77132	0.91176	1.60(QM)	
46	Tert Amyl Methyl Ether	73	Compound Not Detected.						
* 47	1,4-Difluorobenzene	114	5.600	5.622	(1.000)	2552276	10.0000		
48	2,2,4-Trimethylpentane	57	5.754	5.783	(1.028)	37079	0.14375	0.252(M)	
49	Heptane	43	5.867	5.902	(1.048)	11437	0.12310	0.215	
50	1,2-Dichloropropane	63	Compound Not Detected.						(D)
51	Trichloroethene	130	5.976	5.999	(1.067)	913486	11.8238	20.7	
52	Methyl methacrylate	69	Compound Not Detected.						(D)
53	1,4-Dioxane	88	Compound Not Detected.						
54	Bromodichloromethane	83	Compound Not Detected.						
55	Methylcyclohexane	98	Compound Not Detected.						(D)
56	Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
57	cis-1,3-Dichloropropene	75	Compound Not Detected.						
58	trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$ 59	Toluene-d8 (S)	98	7.070	7.082	(1.262)	2150119	9.99269	9.99	
60	1,1,2-Trichloroethane	97	Compound Not Detected.						
61	Toluene	91	7.143	7.163	(1.276)	84151	0.46975	0.822	
62	Methyl Butyl Ketone	43	Compound Not Detected.						(D)
63	n-Octane	43	7.565	7.590	(0.876)	28819	0.22849	0.400(Q)	
64	Dibromochloromethane	129	Compound Not Detected.						
65	1,2-Dibromoethane	107	Compound Not Detected.						
66	Tetrachloroethene	166	7.979	7.992	(0.924)	769040	7.31522	12.8	
* 67	Chlorobenzene - d5	117	8.635	8.648	(1.000)	1605214	10.0000		
68	Chlorobenzene	112	Compound Not Detected.						
69	Ethyl Benzene	91	8.928	8.941	(1.034)	78478	0.33357	0.584	
70	m&p-Xylene	91	9.069	9.088	(1.050)	235462	1.30992	2.29	
71	n-Nonane	43	Compound Not Detected.						(D)
72	Bromoform	173	Compound Not Detected.						
73	Styrene	104	Compound Not Detected.						(D)
74	o-Xylene	91	9.574	9.587	(1.109)	67023	0.36331	0.636	
75	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
76	Isopropylbenzene	105	Compound Not Detected.						(D)
77	N-Propylbenzene	91	Compound Not Detected.						(D)
78	4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D
Report Date: 30-Mar-2017 19:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.372	11.384	(2.031)	33041	0.29896	0.523	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.510	11.519	(1.333)	18387	0.10557	0.185	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.857	(1.372)	764922	10.0380	10.0	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.169	(1.641)	82684	1.58328	2.77	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D
Report Date: 30-Mar-2017 19:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08636.D
Lab Smp Id: 10381335001
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info: 28019

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

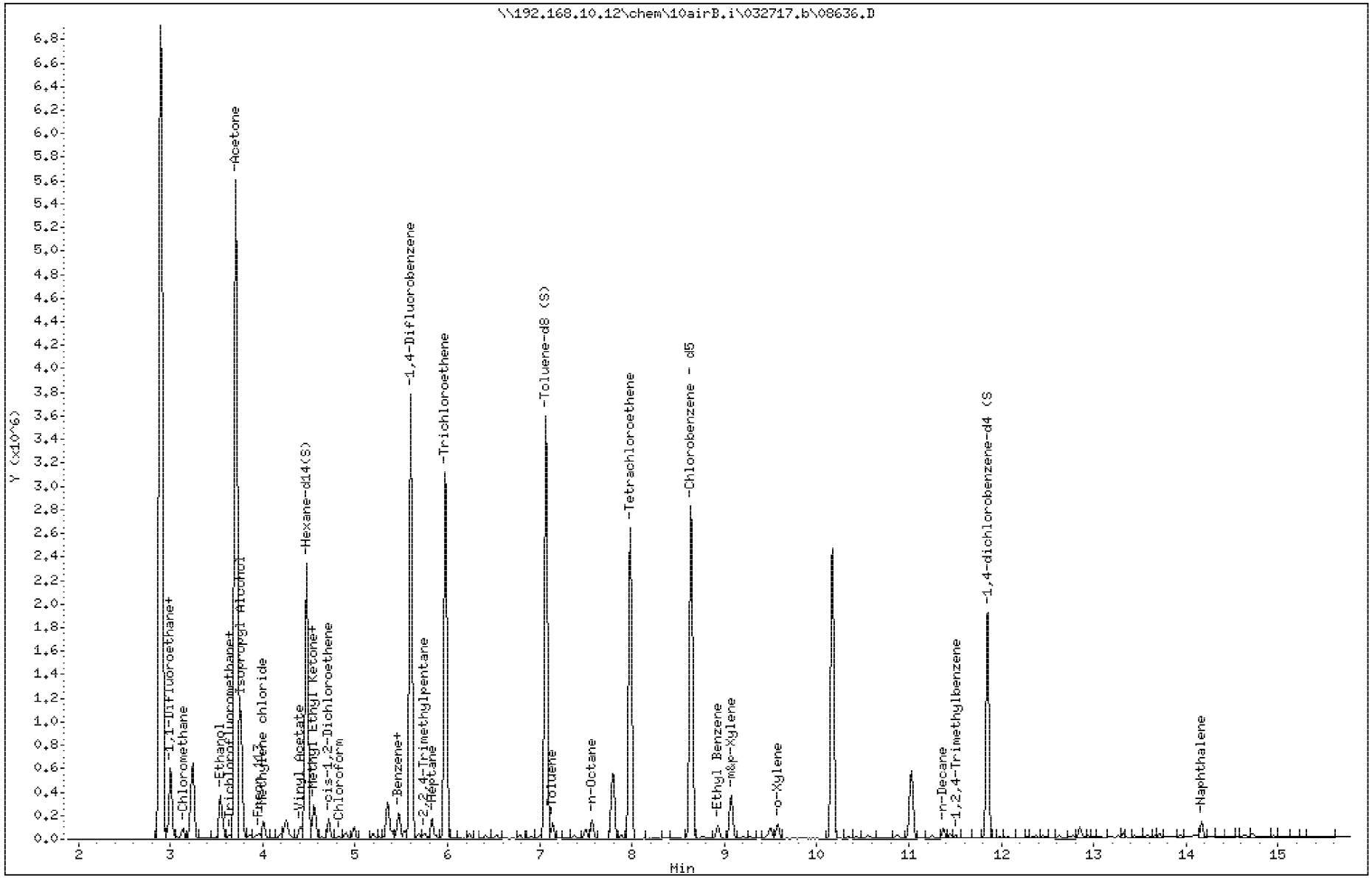
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2552276	-9.87
67 Chlorobenzene - d	1804482	1082689	2526275	1605214	-11.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D
Date : 28-MAR-2017 02:50
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

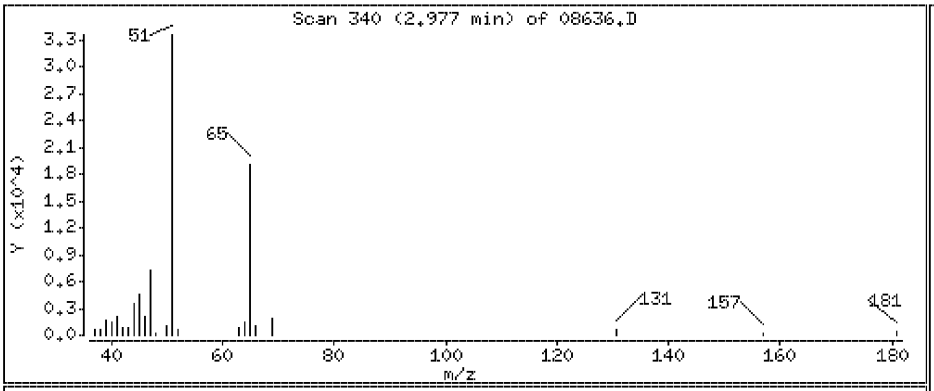
Operator: NCK

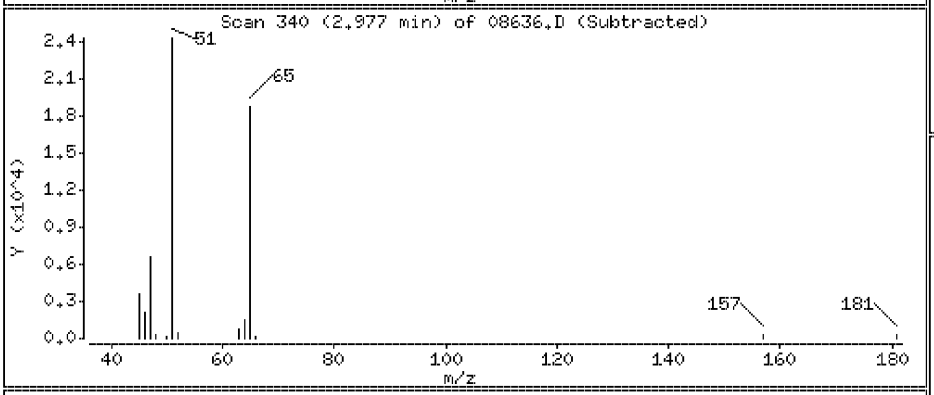
Column phase: J&W DB-5

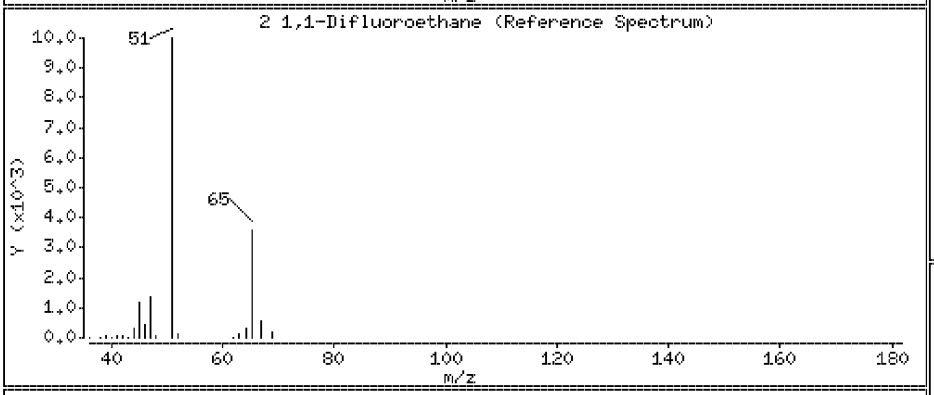
Column diameter: 0.32

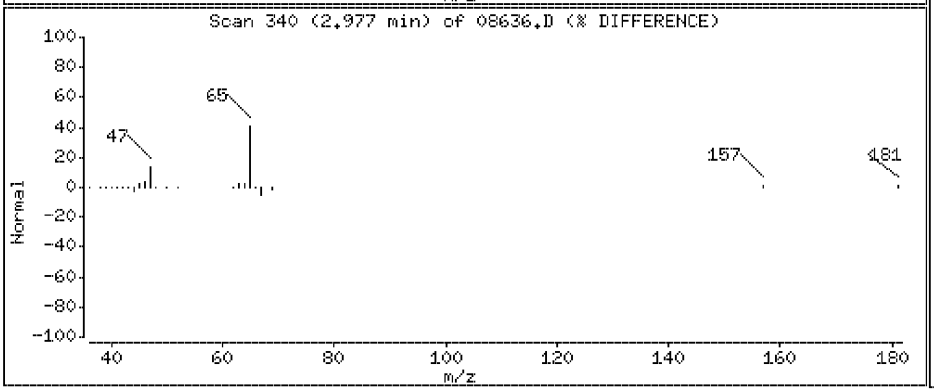
2 1,1-Difluoroethane

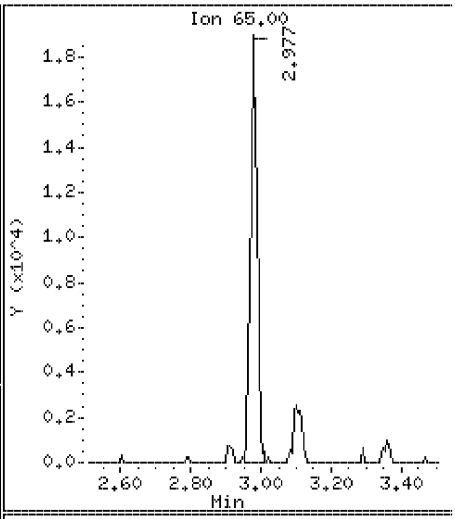
Concentration: 1.39 ppbv

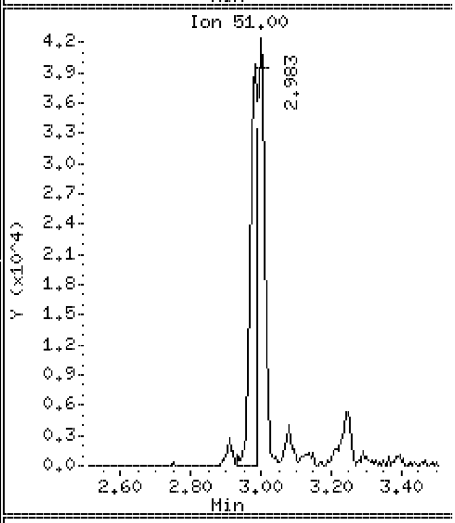


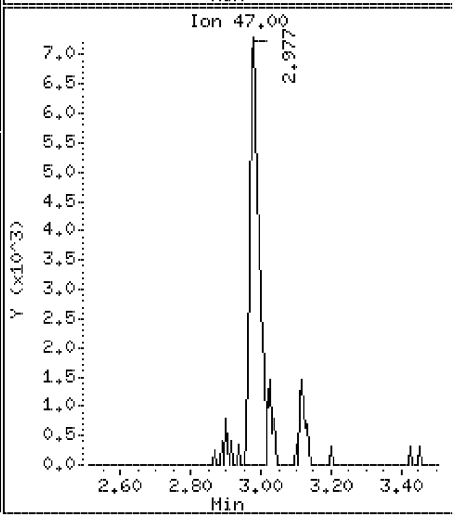












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

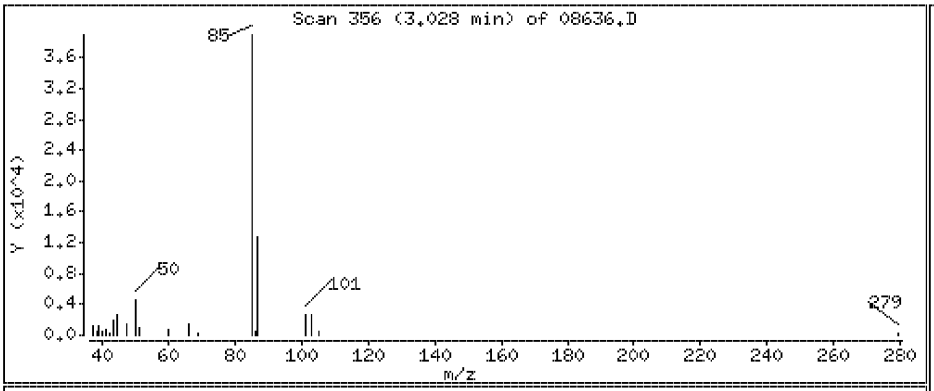
Operator: NCK

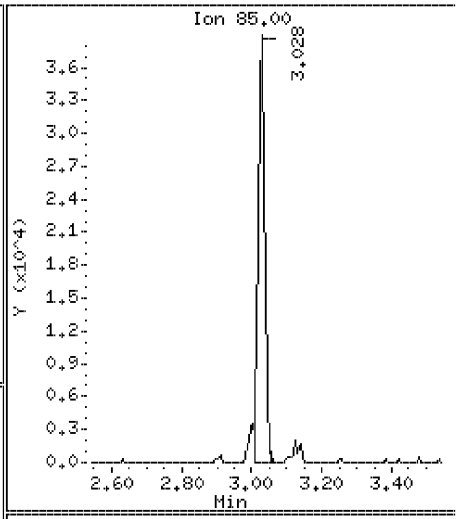
Column phase: J&W DB-5

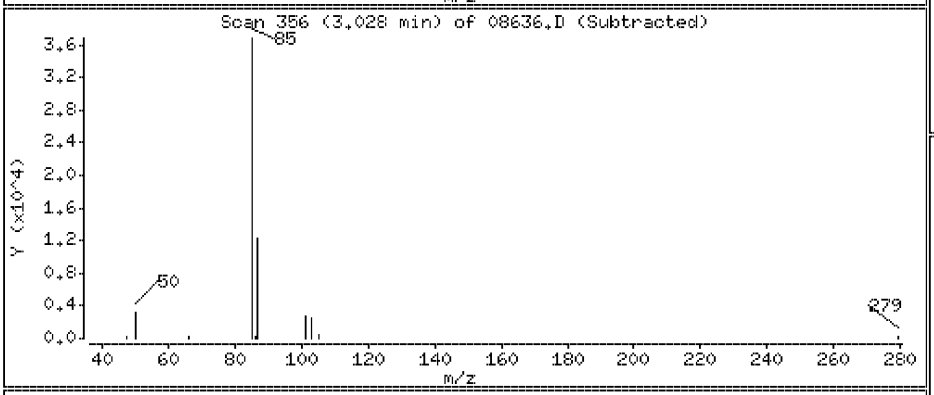
Column diameter: 0.32

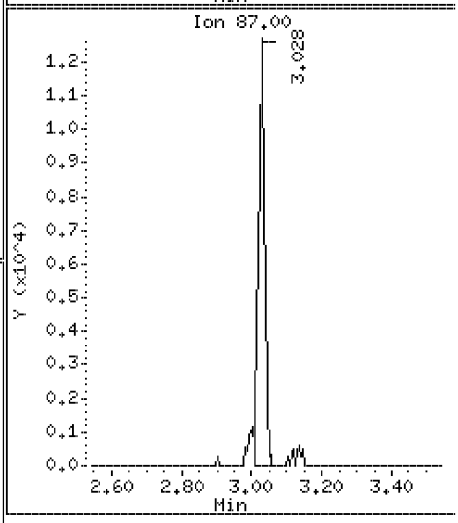
5 Dichlorodifluoromethane

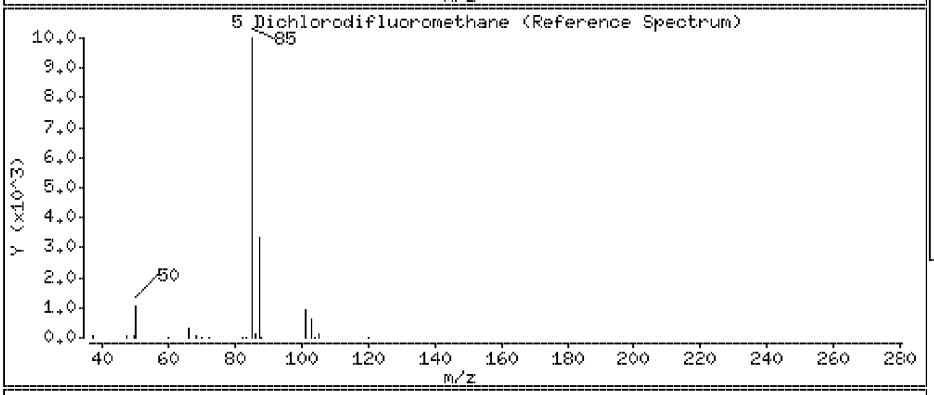
Concentration: 0.578 ppbv

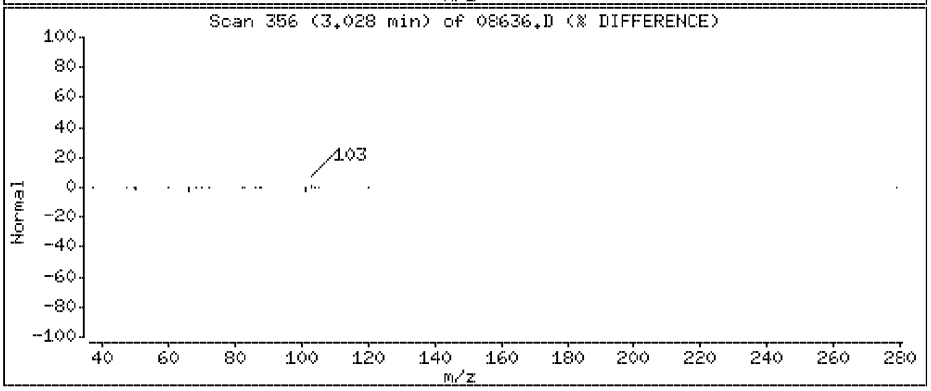












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

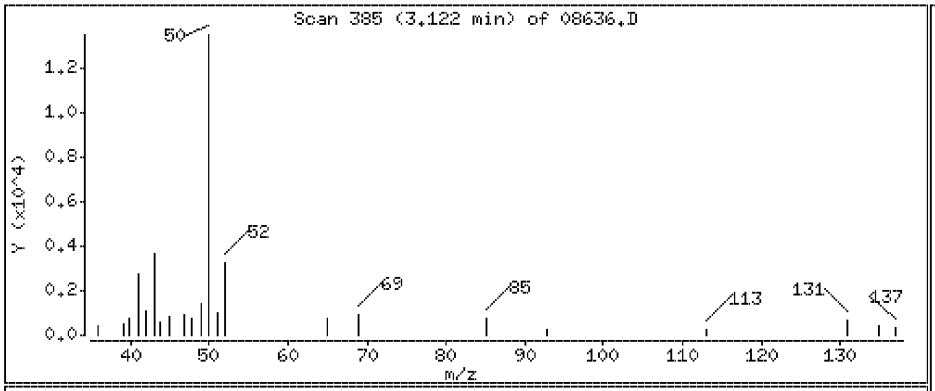
Operator: NCK

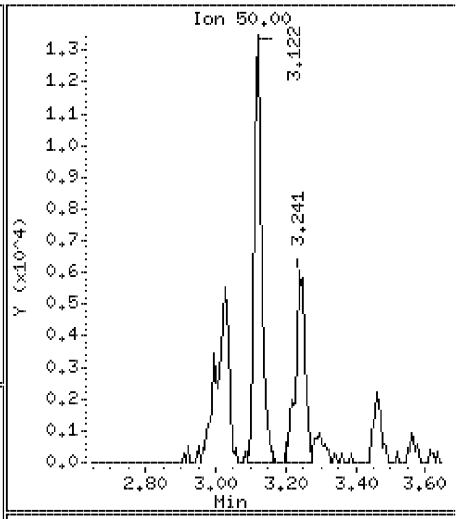
Column phase: J&W DB-5

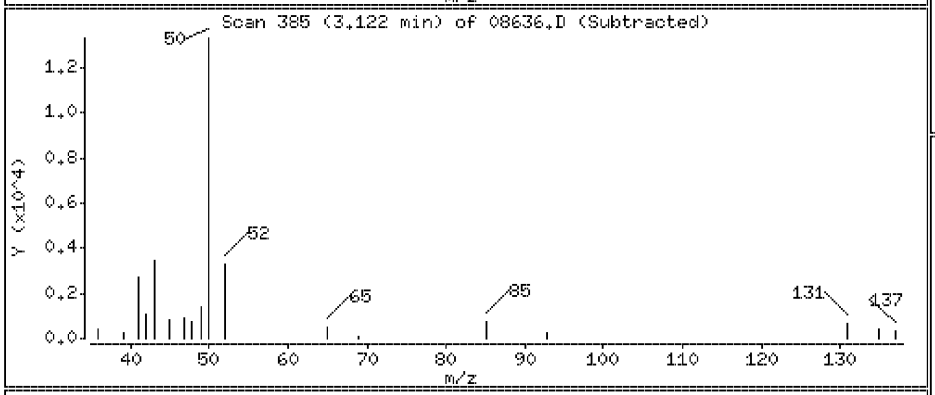
Column diameter: 0.32

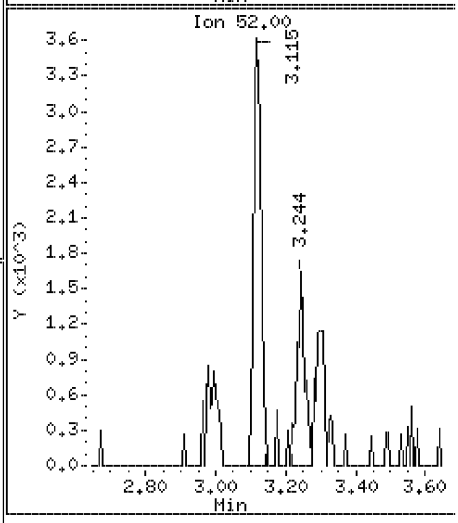
6 Chloromethane

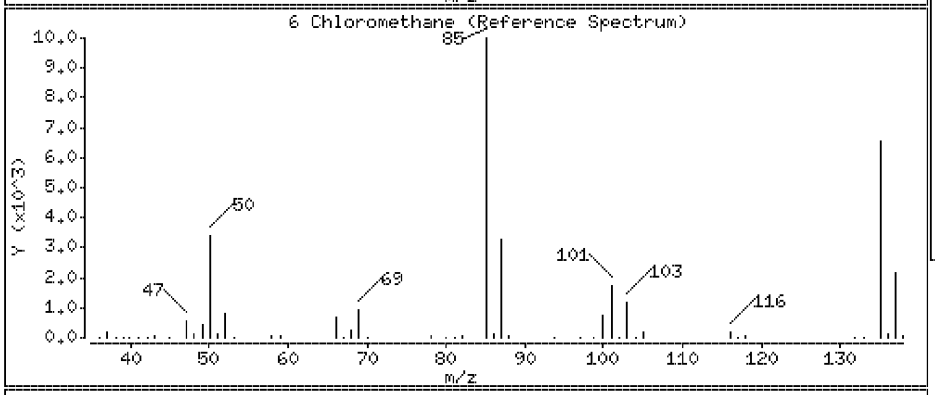
Concentration: 0.542 ppbv

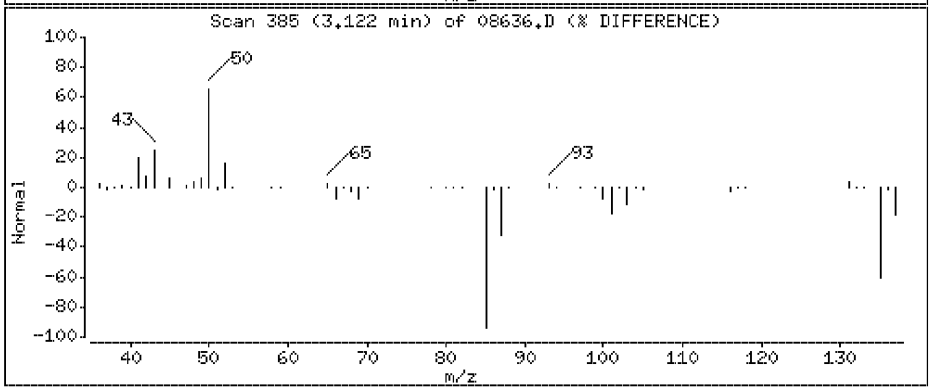












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

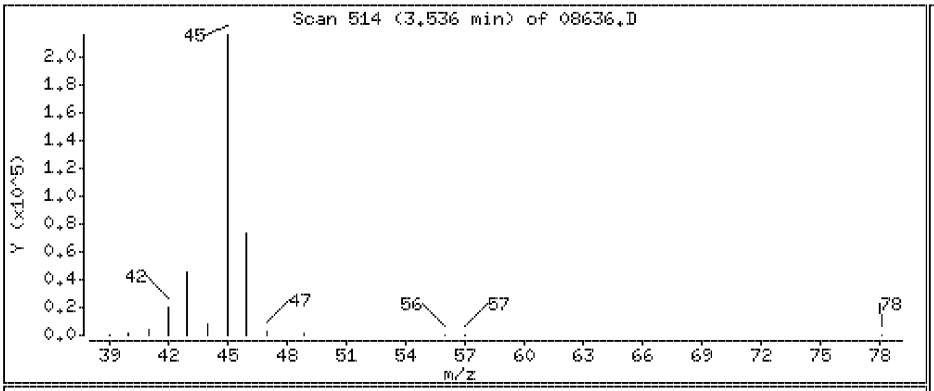
Operator: NCK

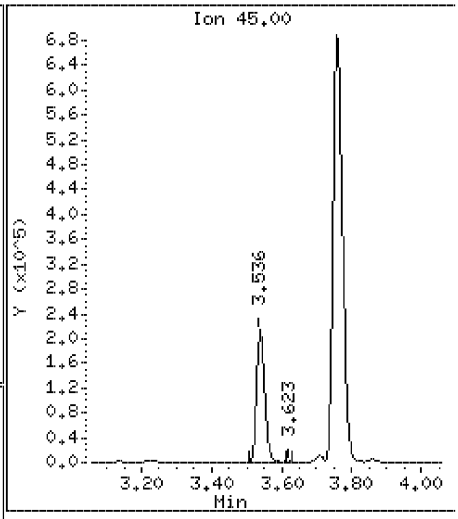
Column phase: J&W DB-5

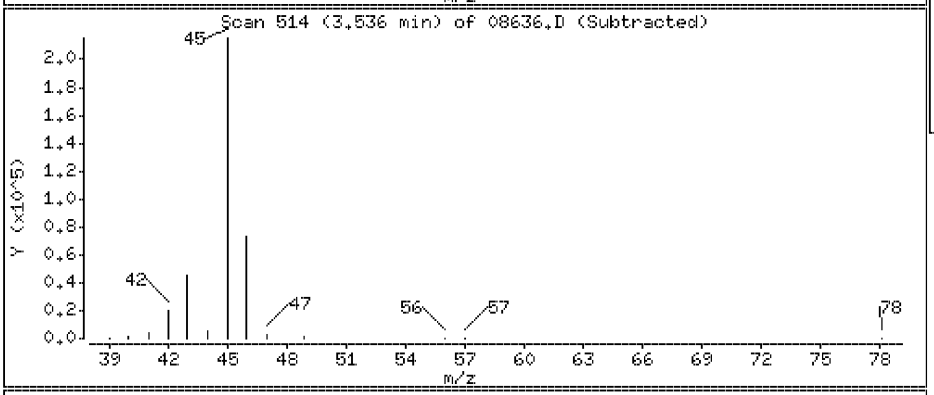
Column diameter: 0.32

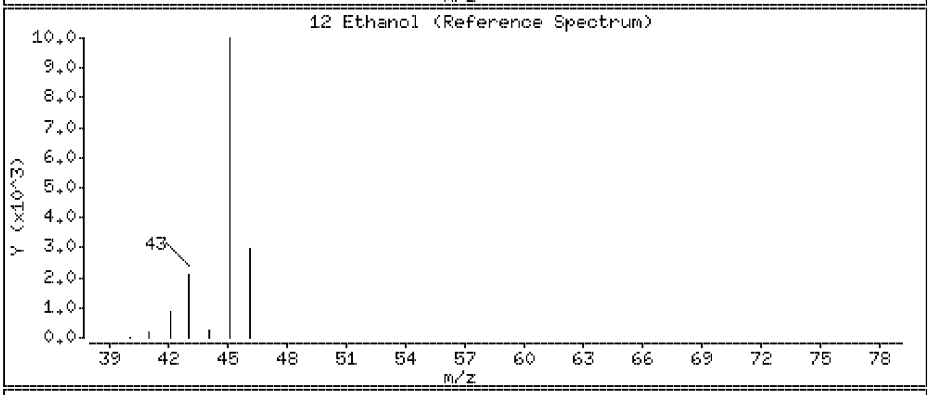
12 Ethanol

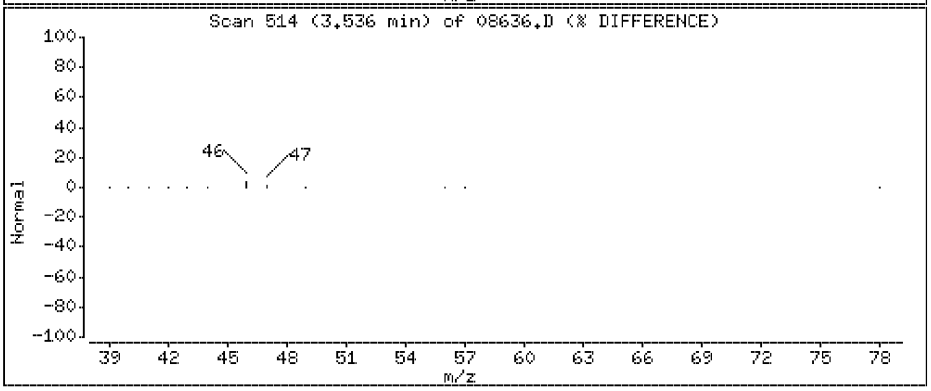
Concentration: 33.9 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

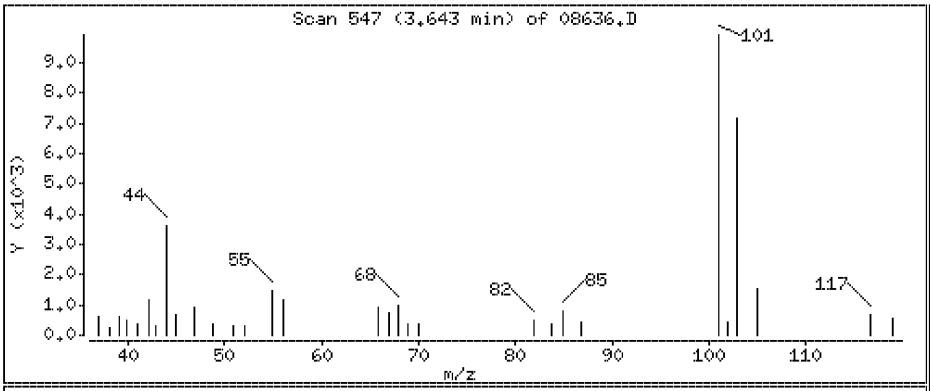
Operator: NCK

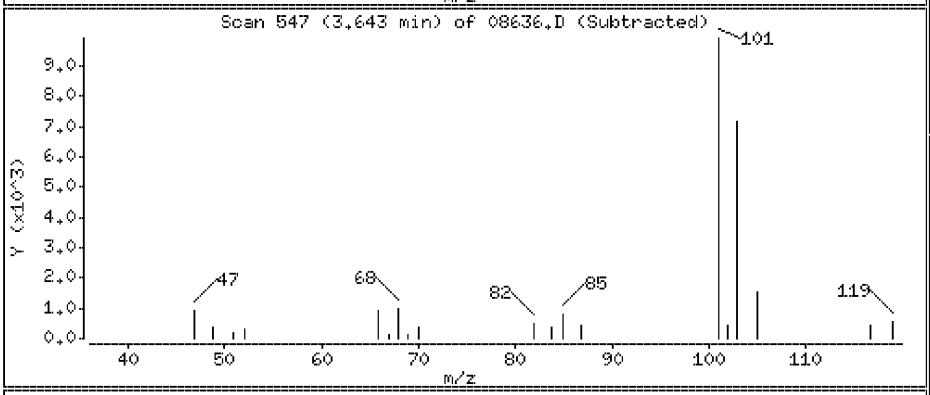
Column phase: J&W DB-5

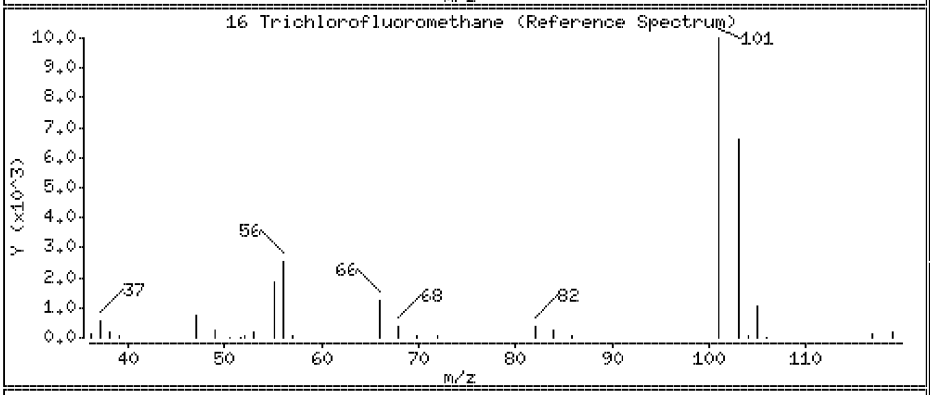
Column diameter: 0.32

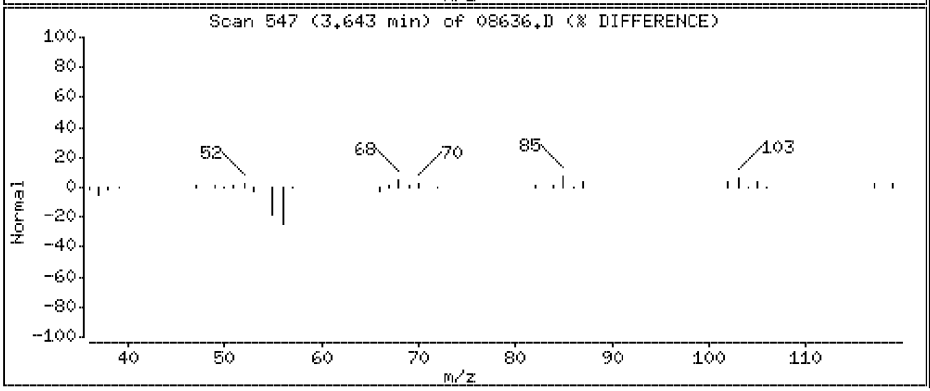
16 Trichlorofluoromethane

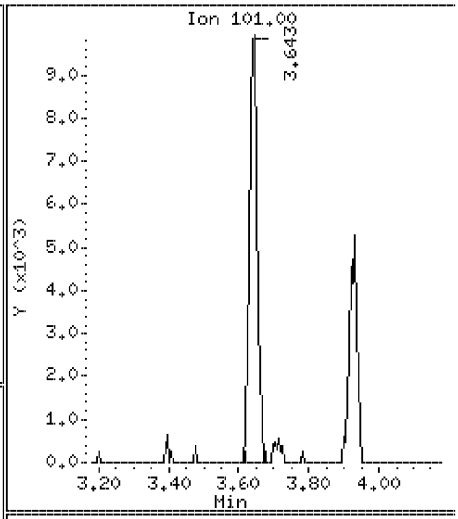
Concentration: 0.256 ppbv

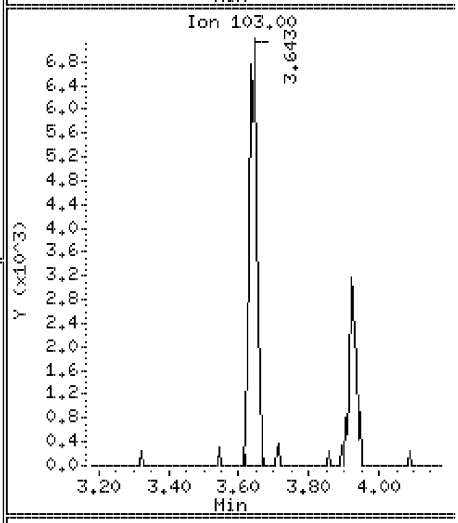


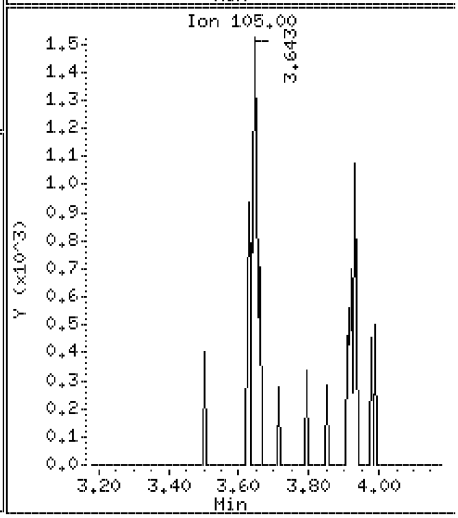












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

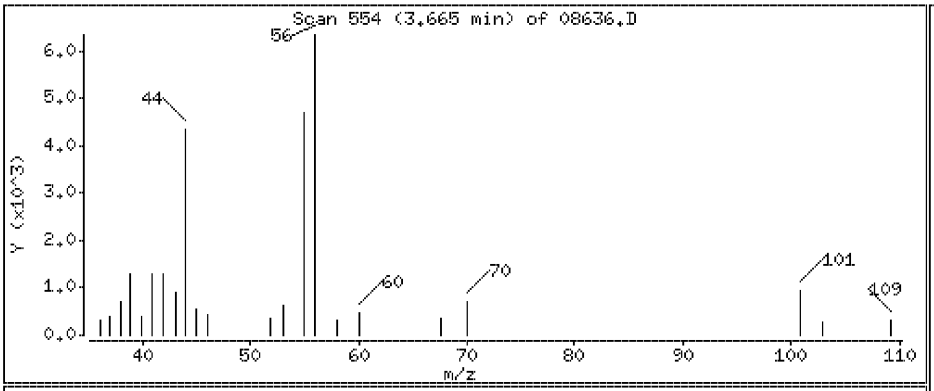
Operator: NCK

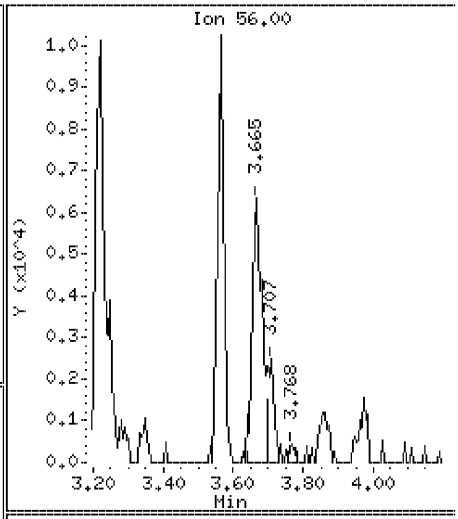
Column phase: J&W DB-5

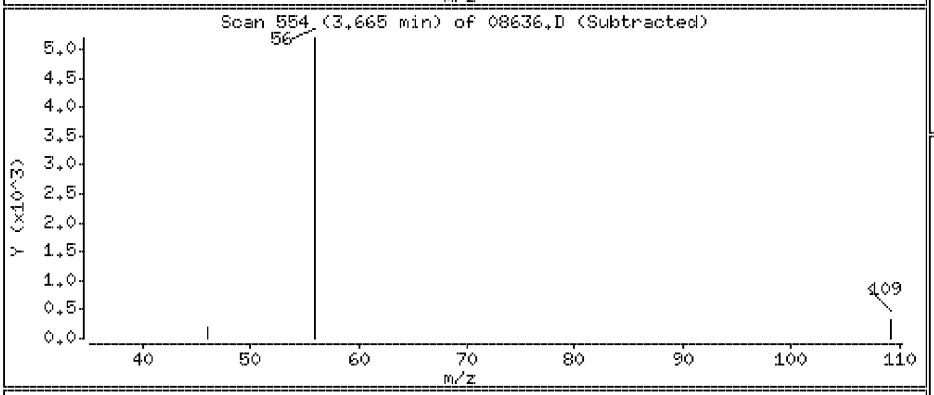
Column diameter: 0.32

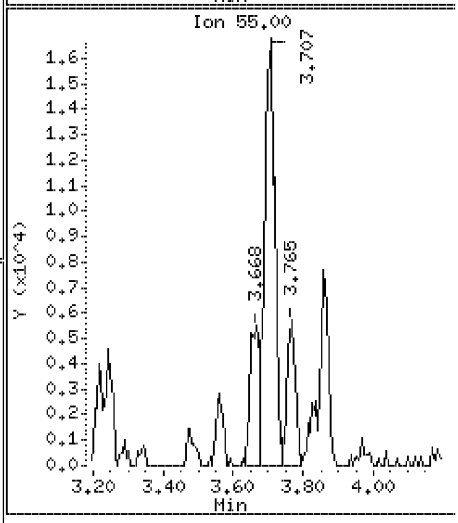
17 Acrolein

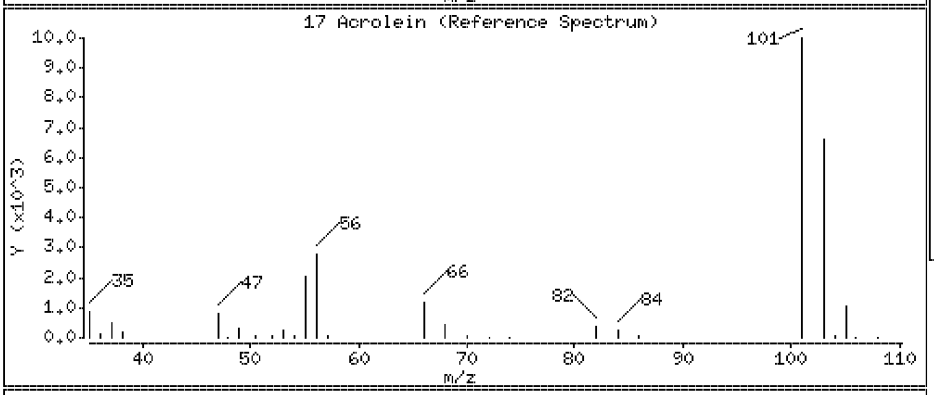
Concentration: 1.30 ppbv

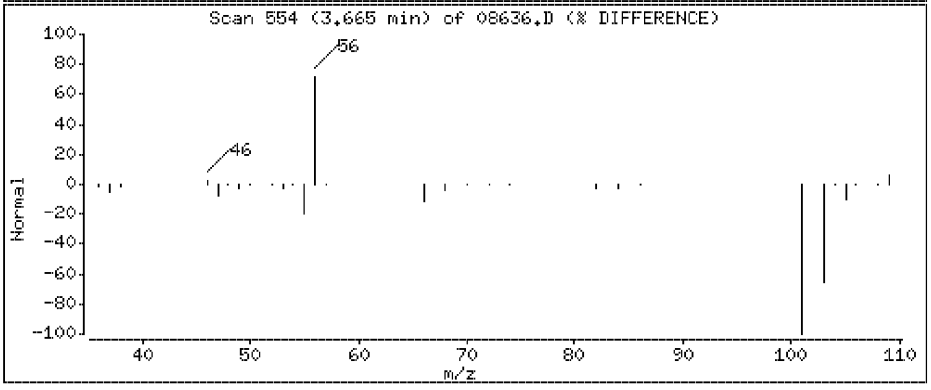












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

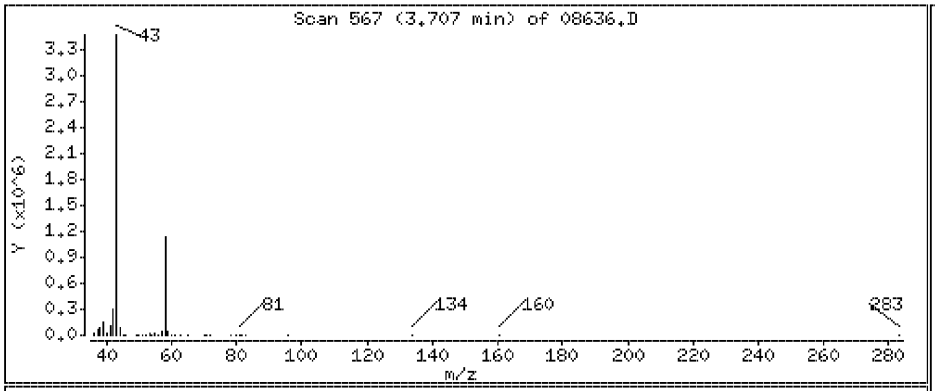
Operator: NCK

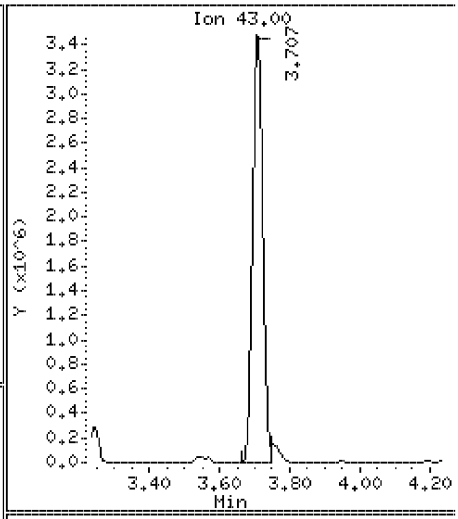
Column phase: J&W DB-5

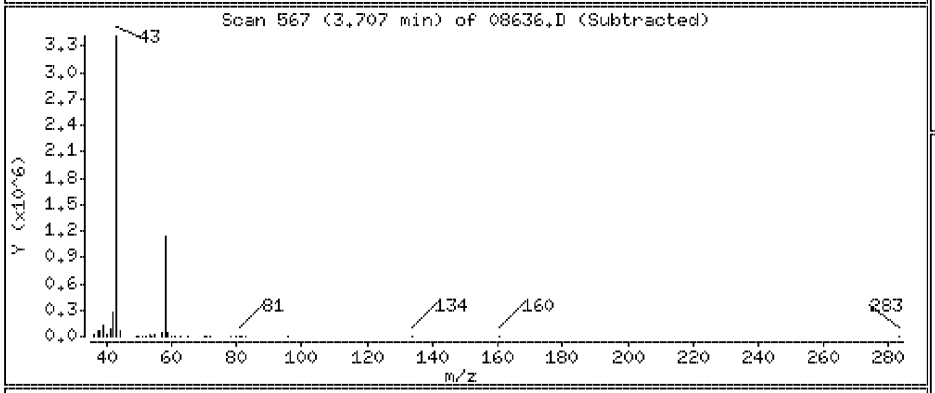
Column diameter: 0.32

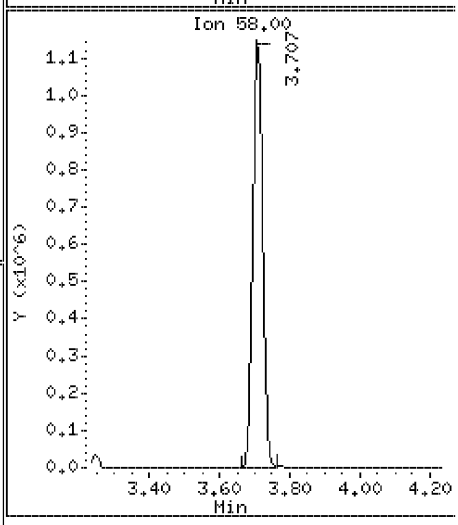
18 Acetone

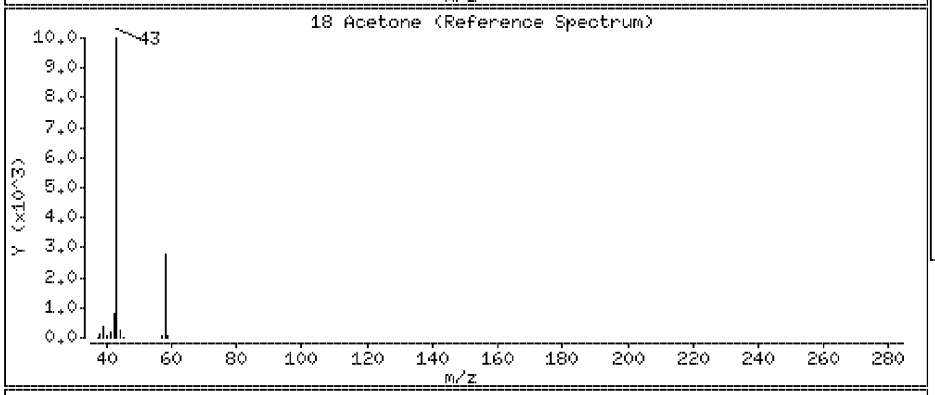
Concentration: 175 ppbv

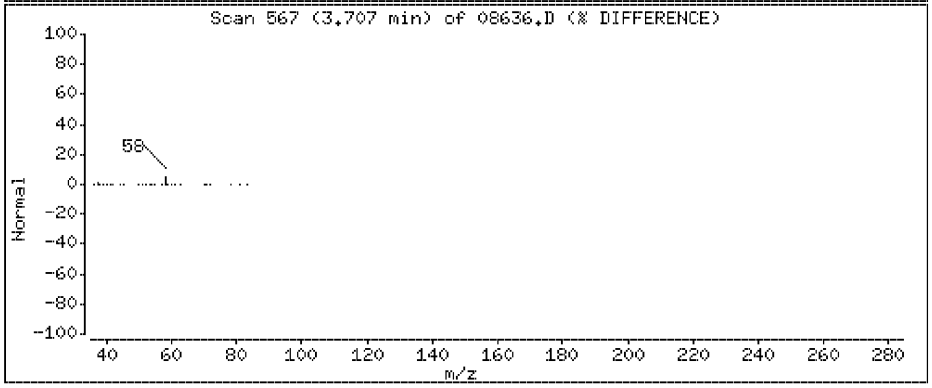












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

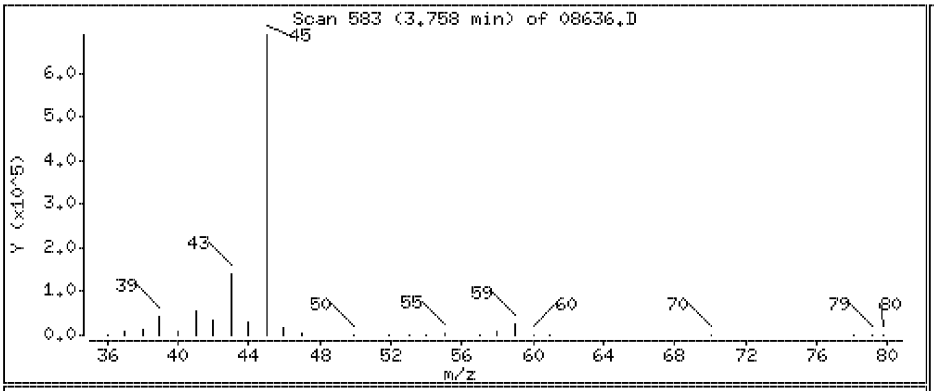
Operator: NCK

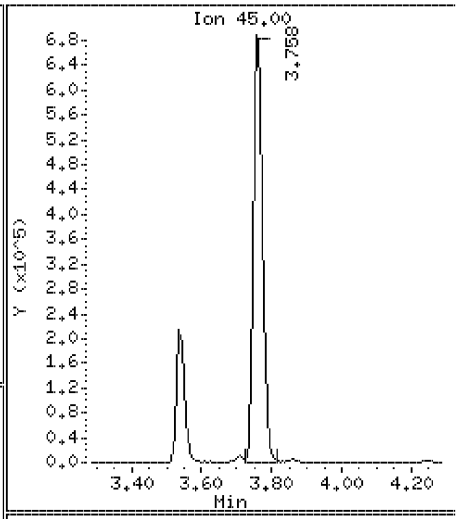
Column phase: J&W DB-5

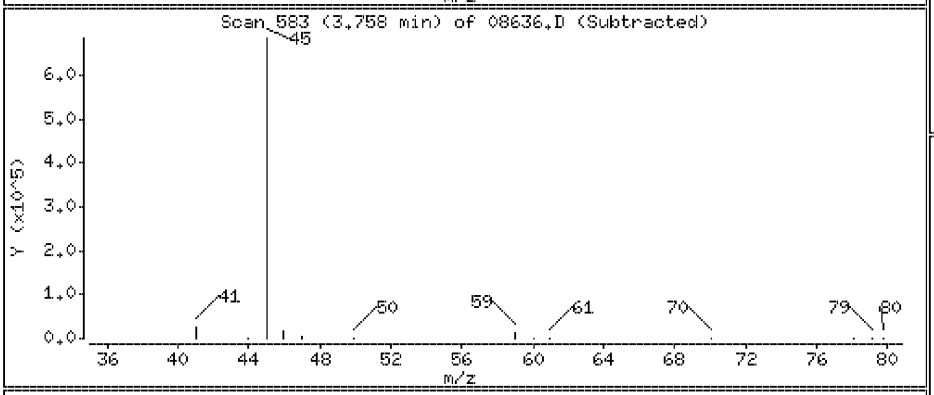
Column diameter: 0.32

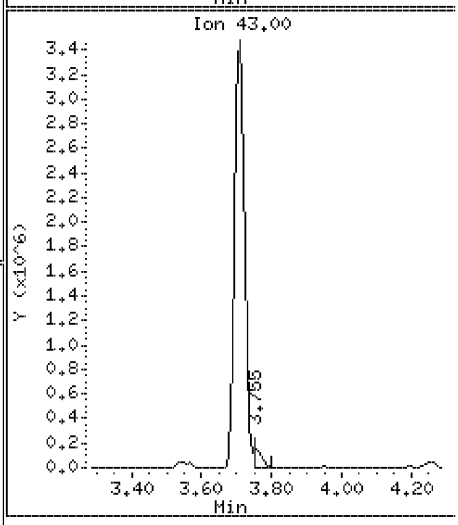
19 Isopropyl Alcohol

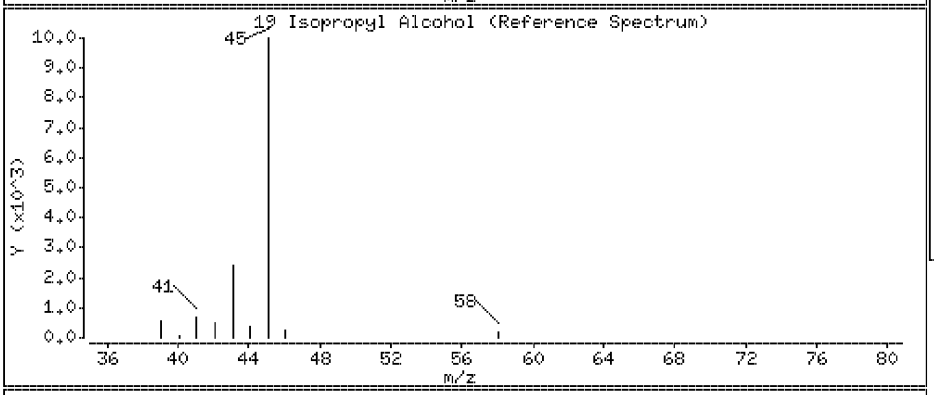
Concentration: 27.6 ppbv

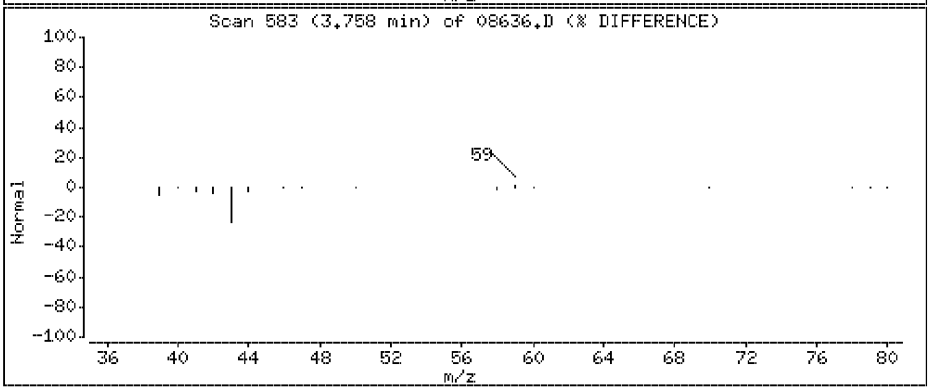












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

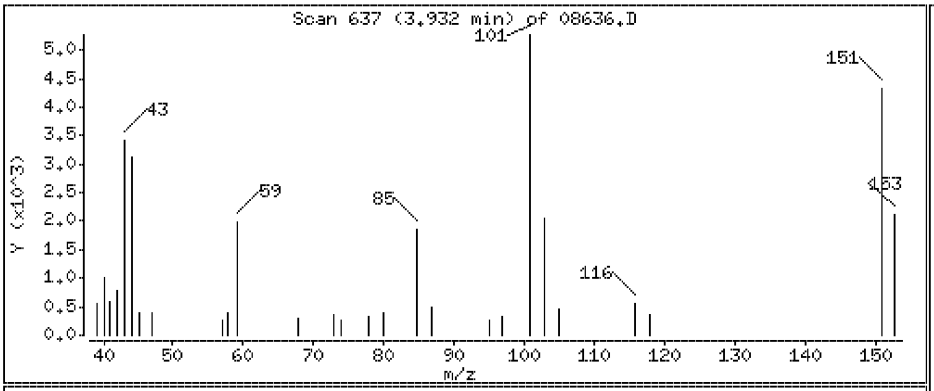
Operator: NCK

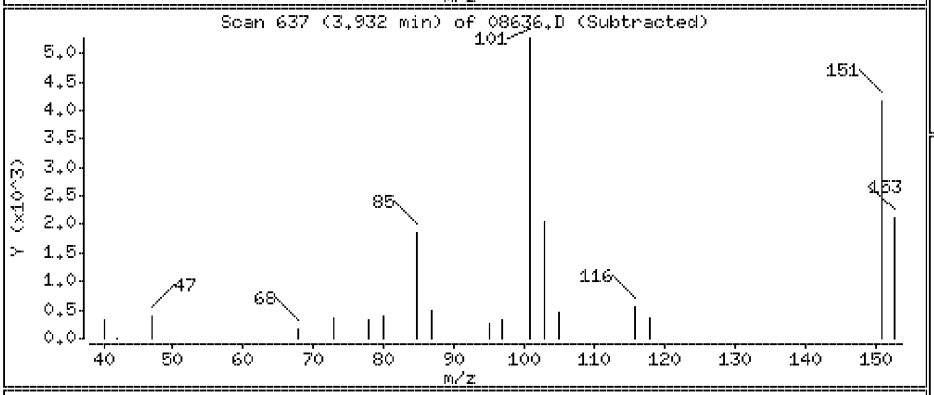
Column phase: J&W DB-5

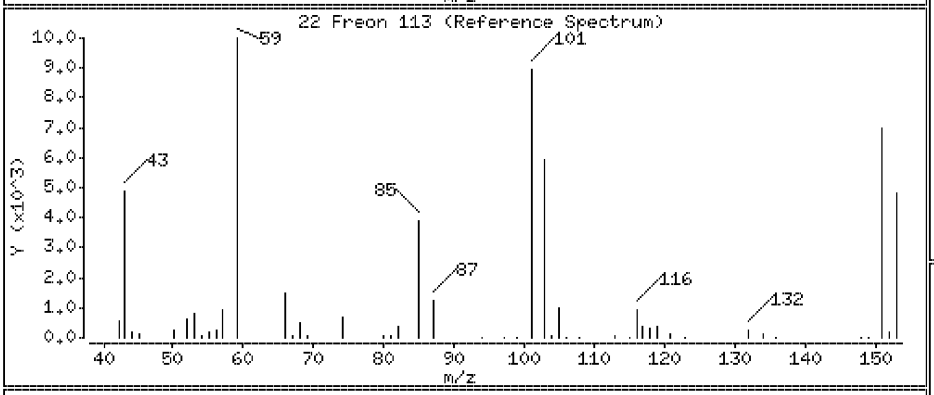
Column diameter: 0.32

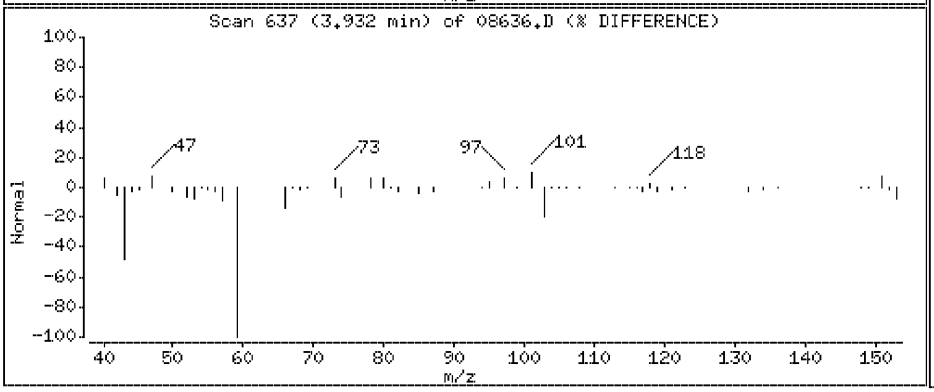
22 Freon 113

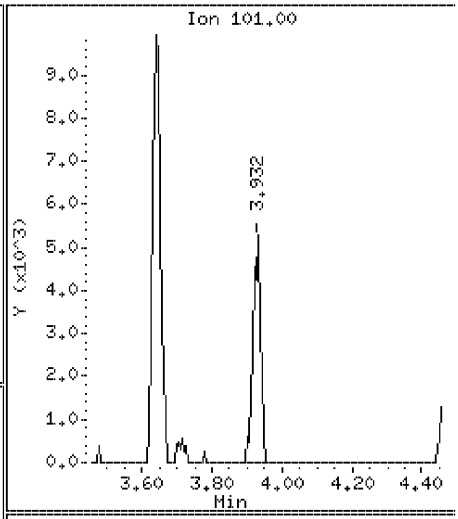
Concentration: 0.161 ppbv

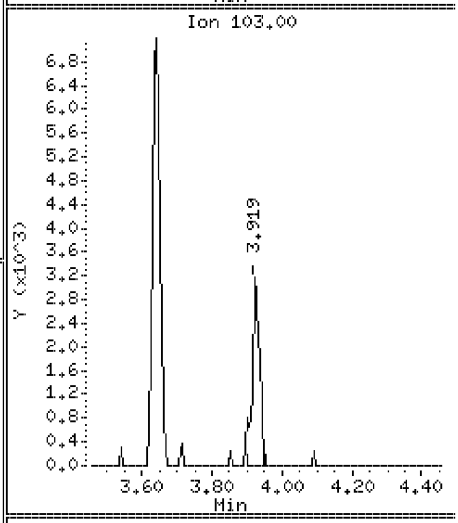


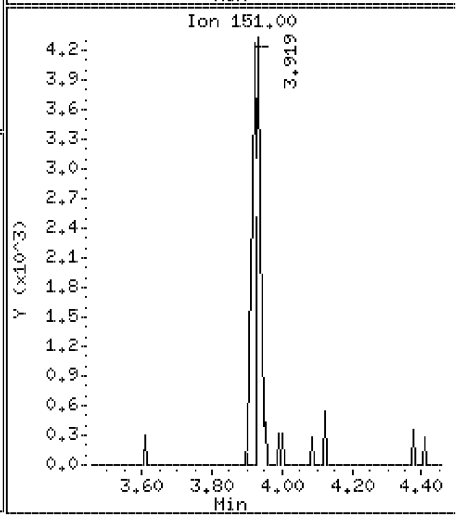












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

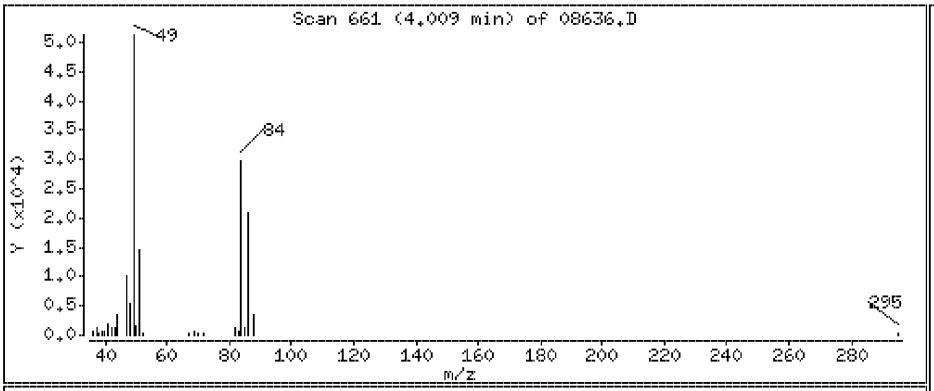
Operator: NCK

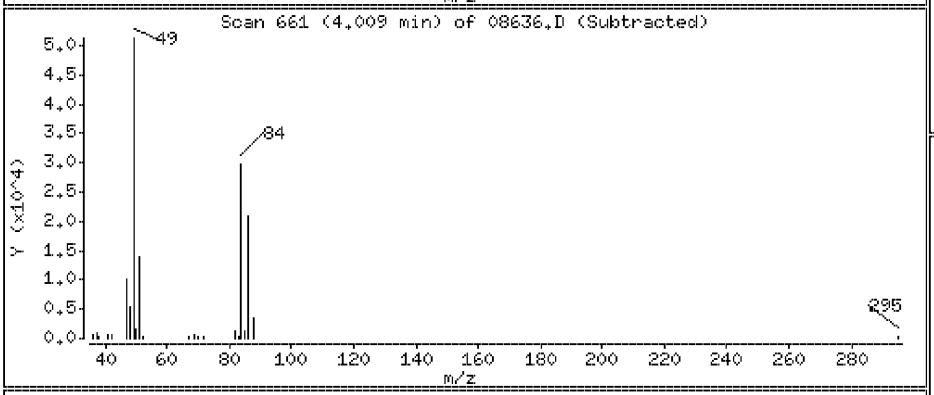
Column phase: J&W DB-5

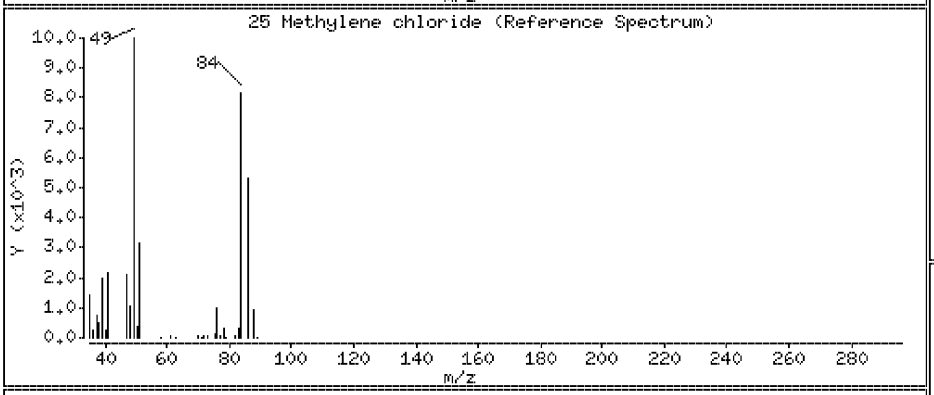
Column diameter: 0.32

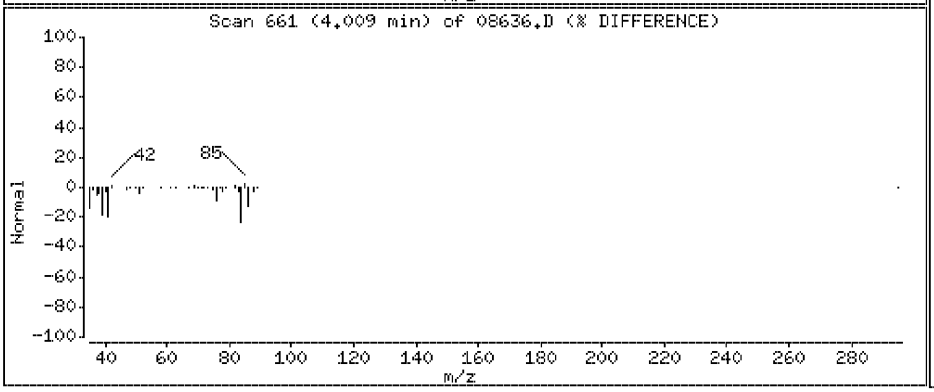
25 Methylene chloride

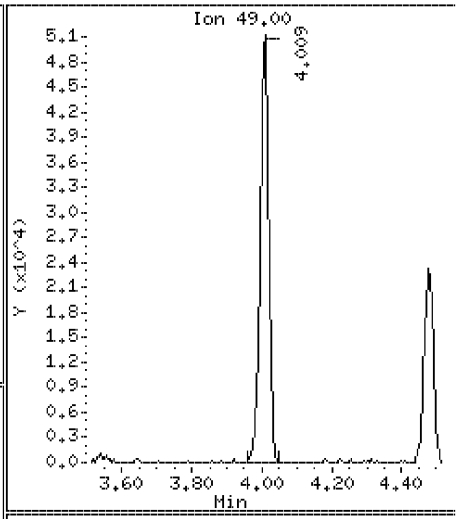
Concentration: 2.70 ppbv

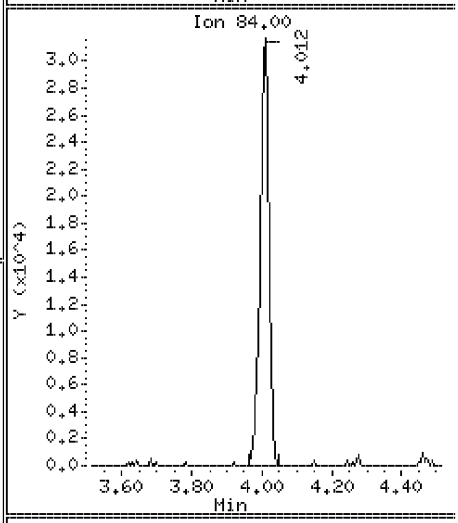


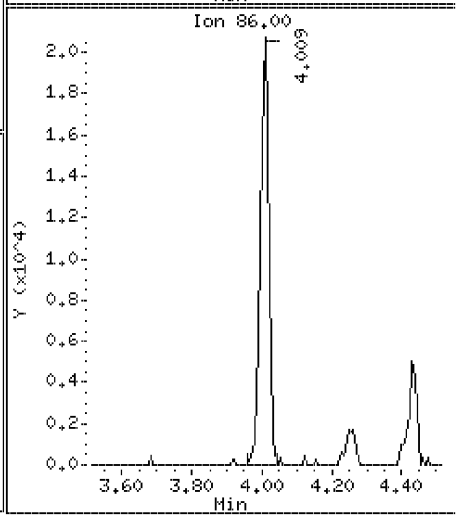












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

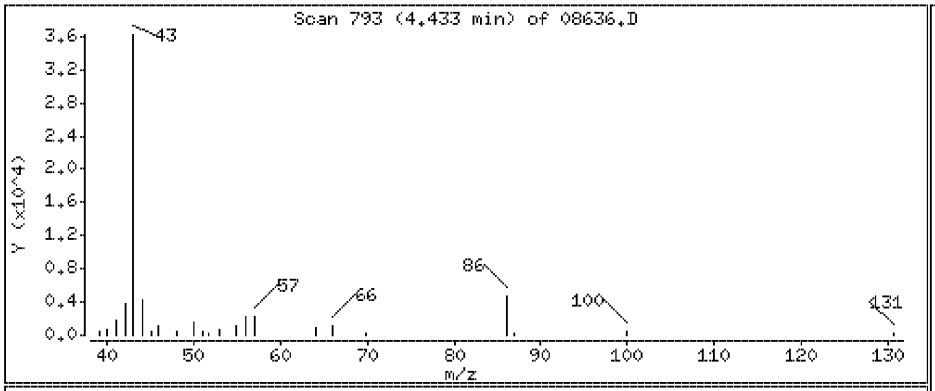
Operator: NCK

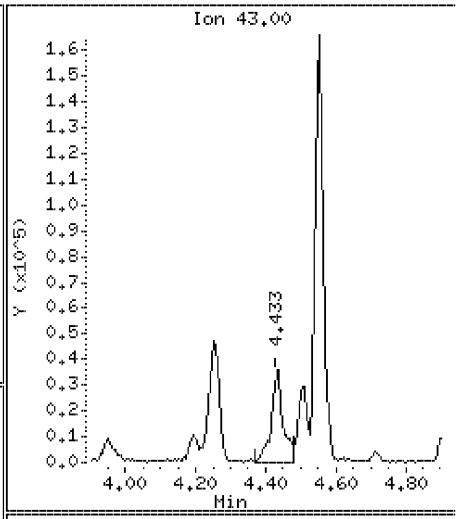
Column phase: J&W DB-5

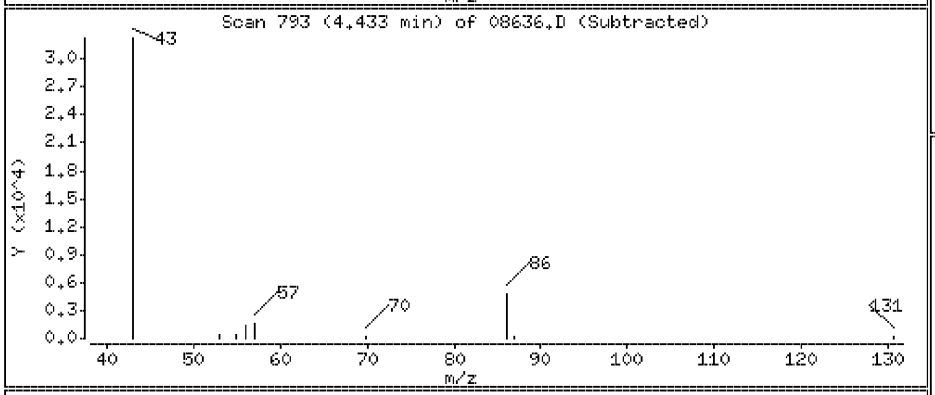
Column diameter: 0.32

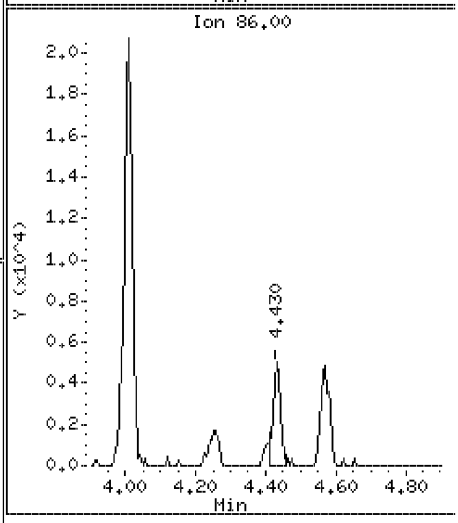
30 Vinyl Acetate

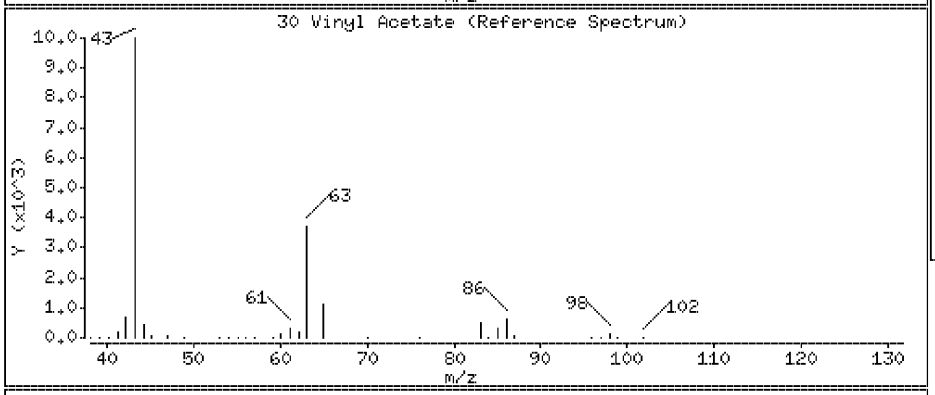
Concentration: 1.24 ppbv

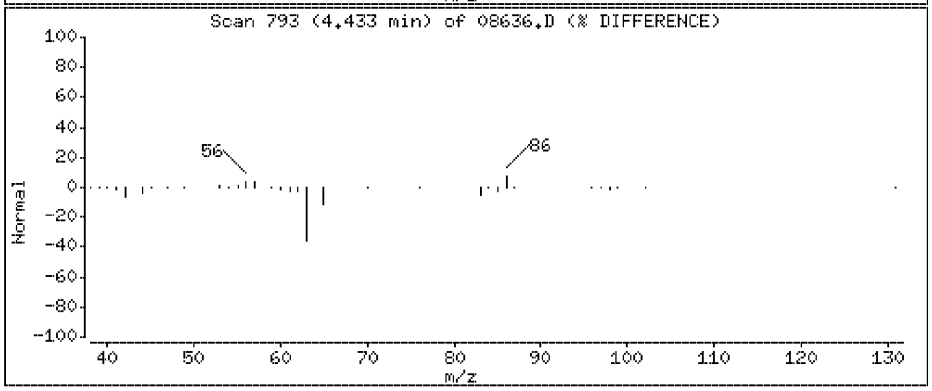












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

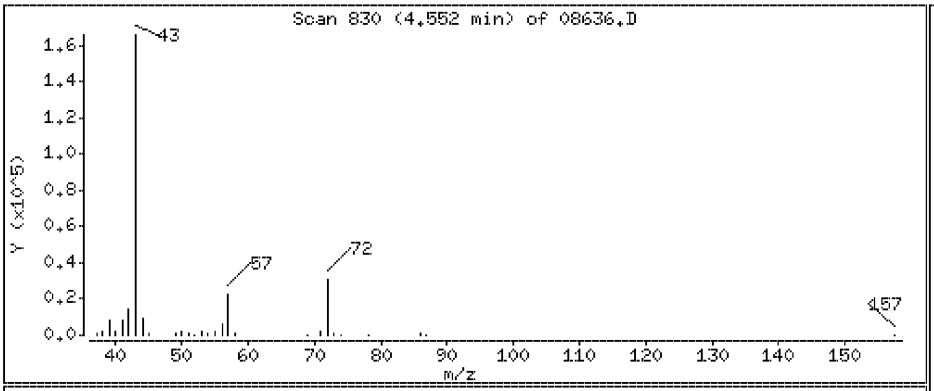
Operator: NCK

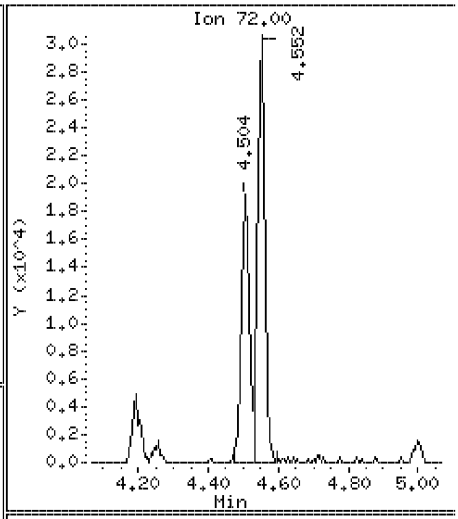
Column phase: J&W DB-5

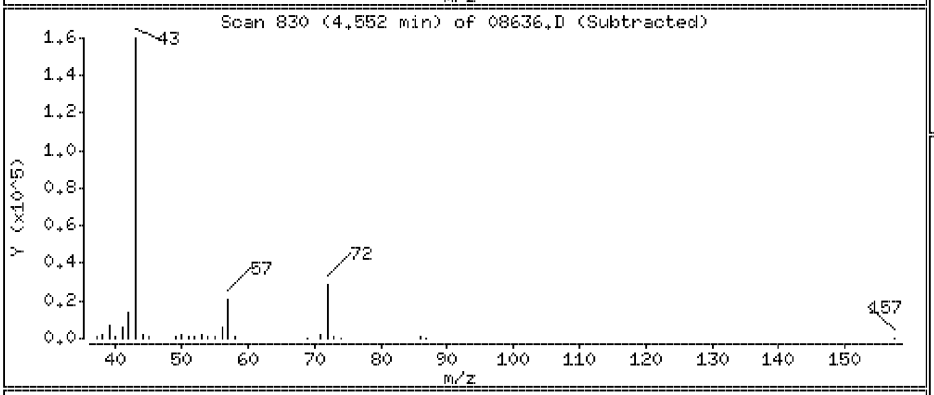
Column diameter: 0.32

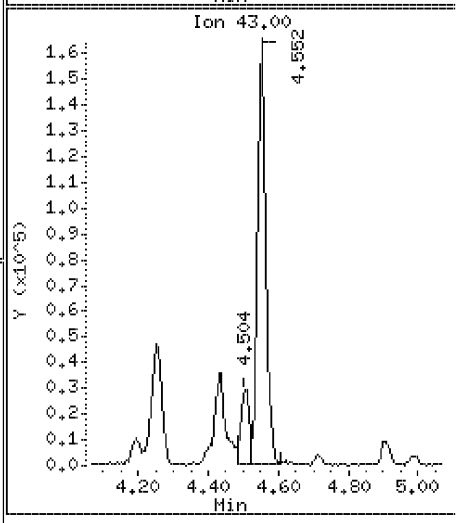
33 Methyl Ethyl Ketone

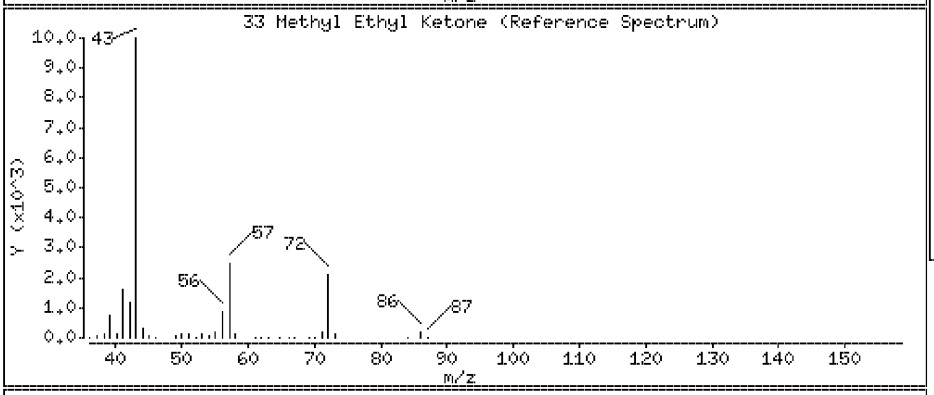
Concentration: 3.56 ppbv

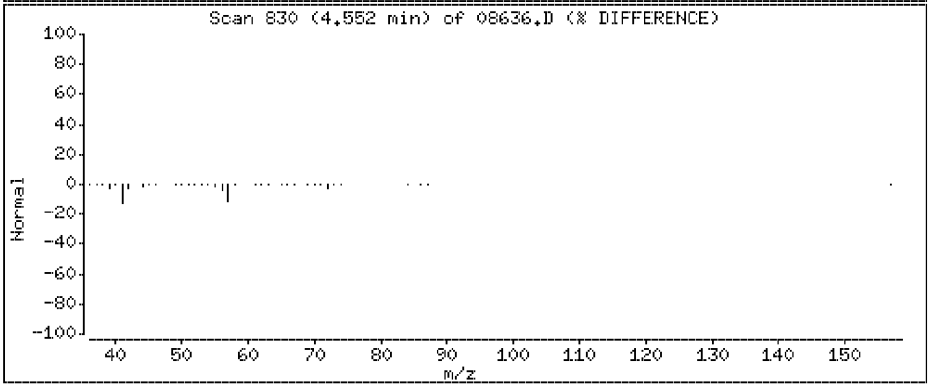












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

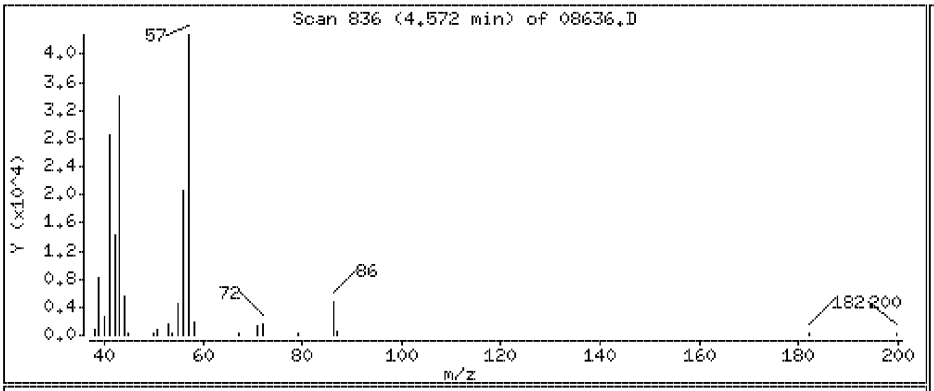
Operator: NCK

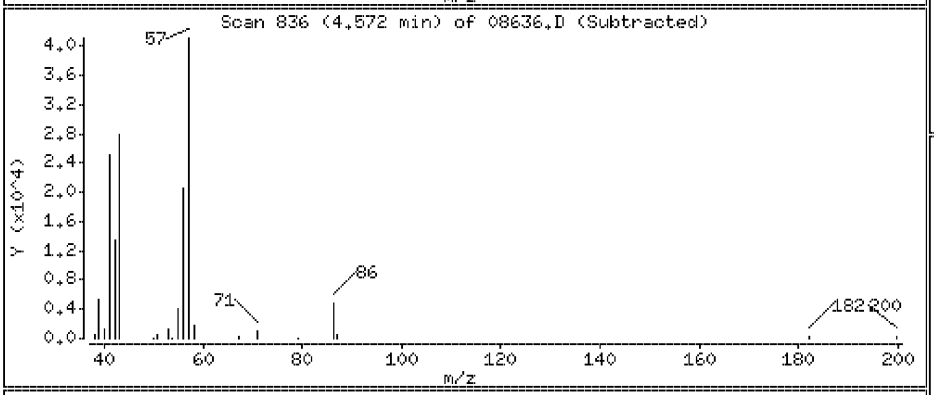
Column phase: J&W DB-5

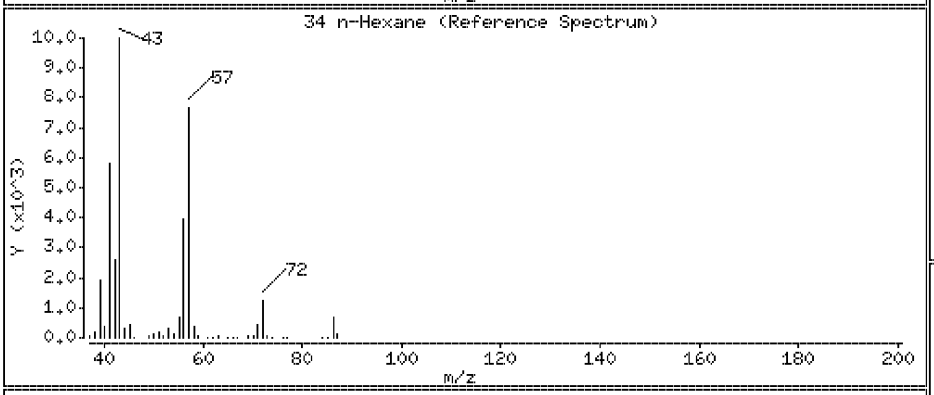
Column diameter: 0.32

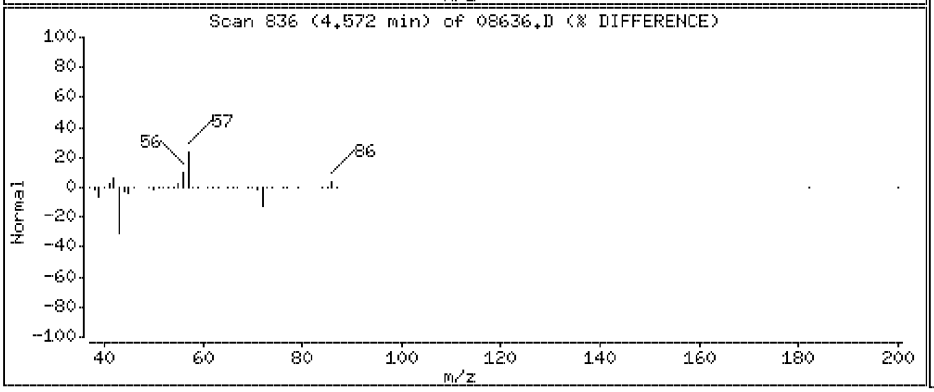
34 n-Hexane

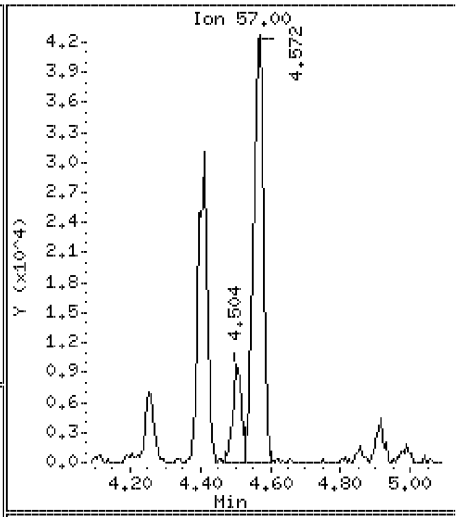
Concentration: 1.82 ppbv

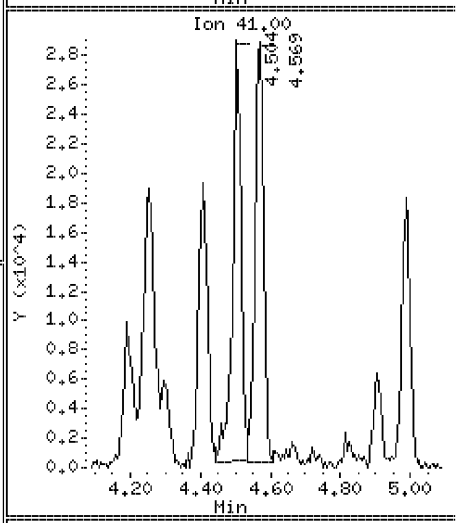


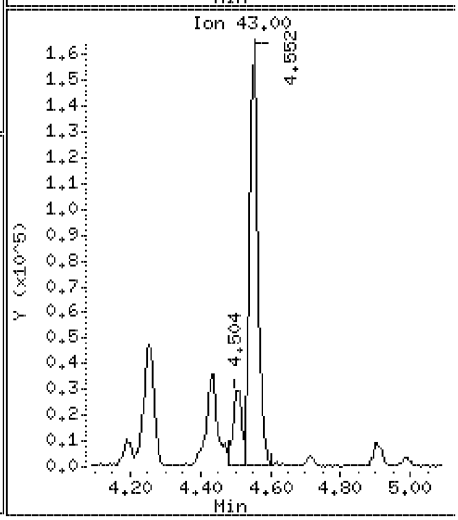












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

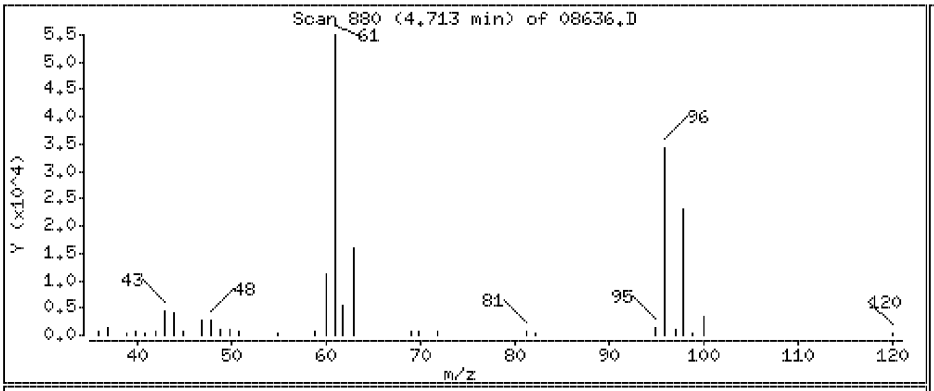
Operator: NCK

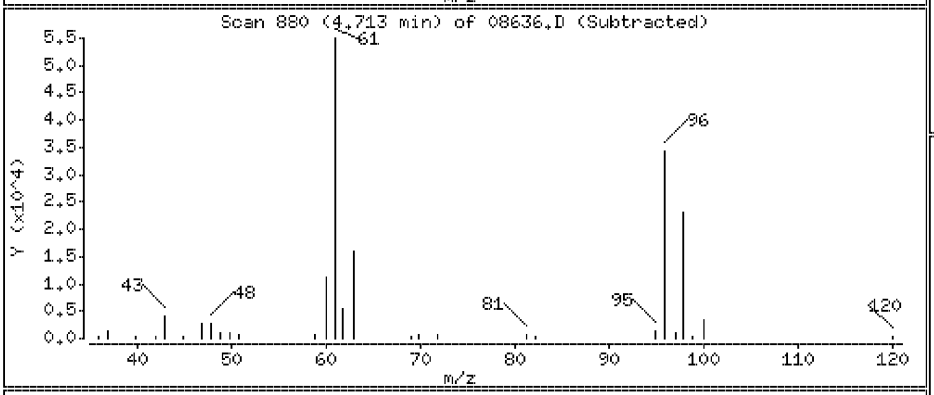
Column phase: J&W DB-5

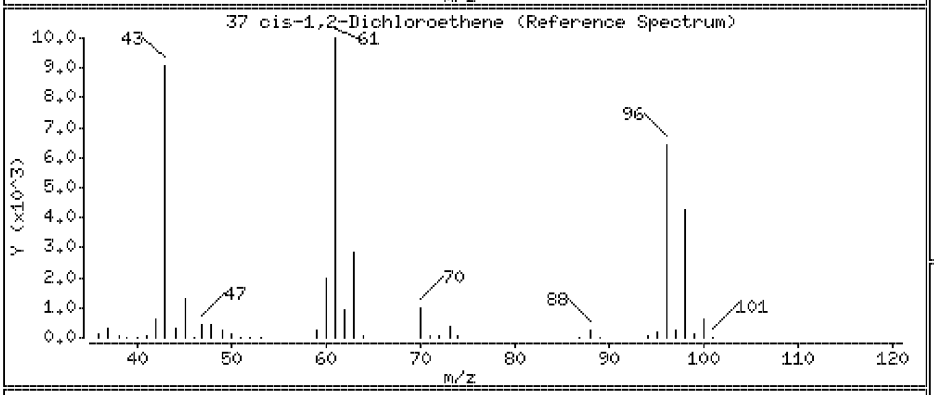
Column diameter: 0.32

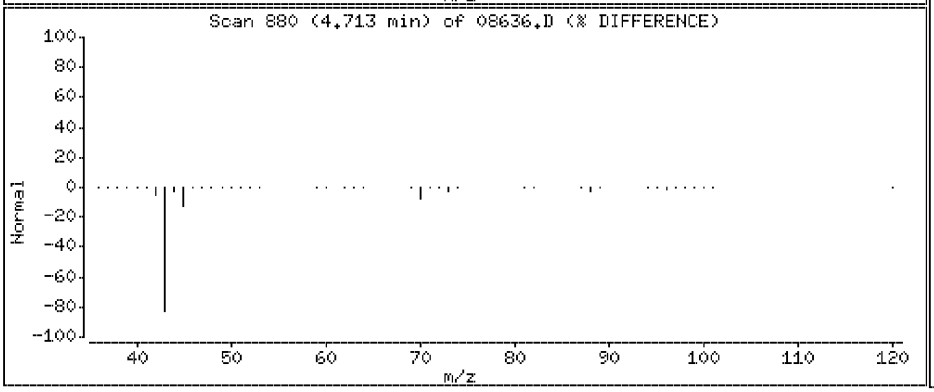
37 cis-1,2-Dichloroethene

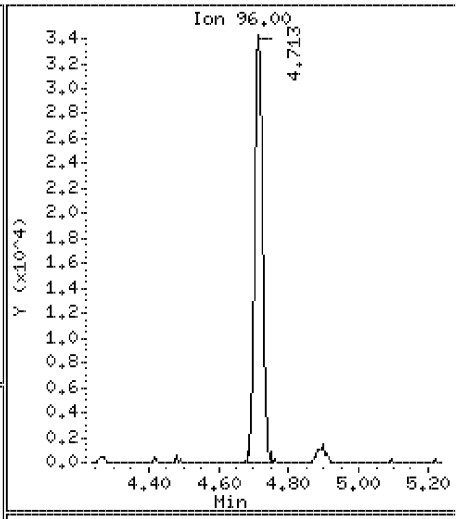
Concentration: 2.03 ppbv

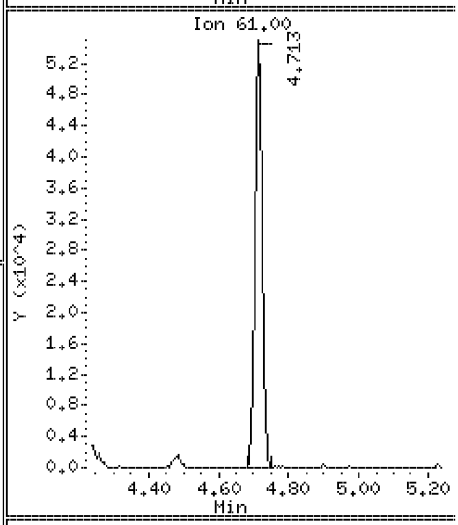


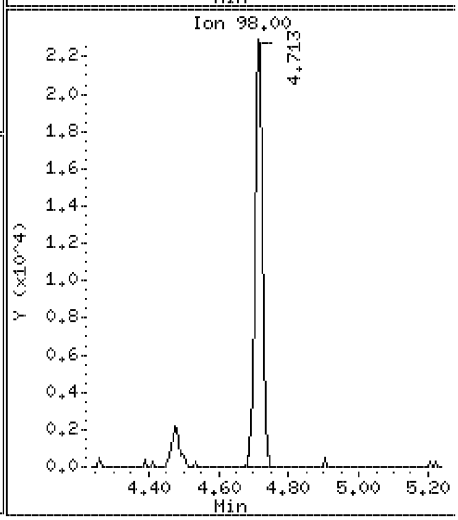












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

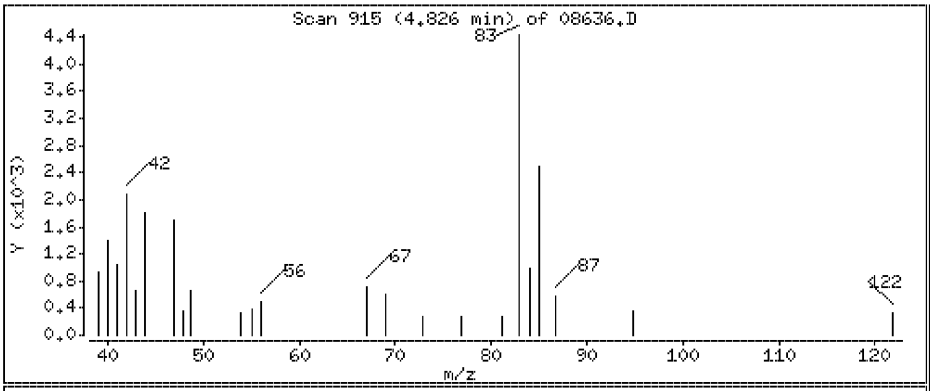
Operator: NCK

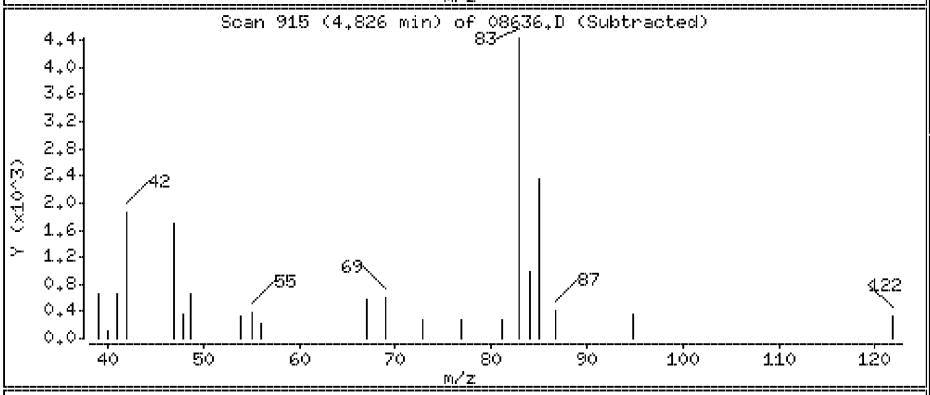
Column phase: J&W DB-5

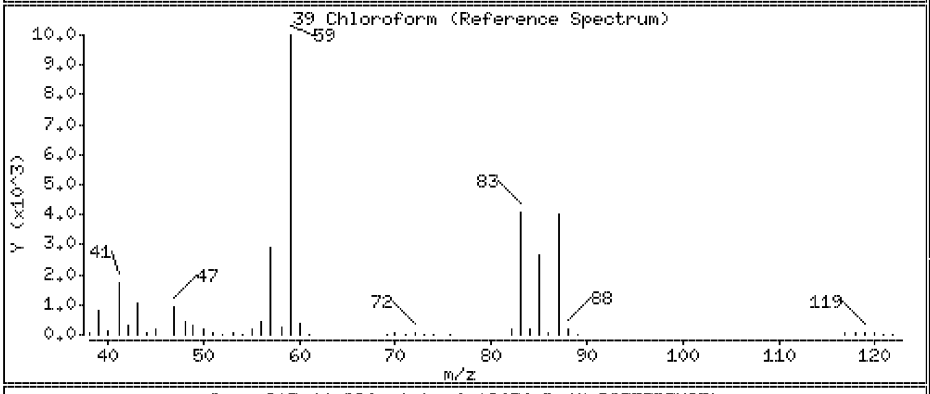
Column diameter: 0.32

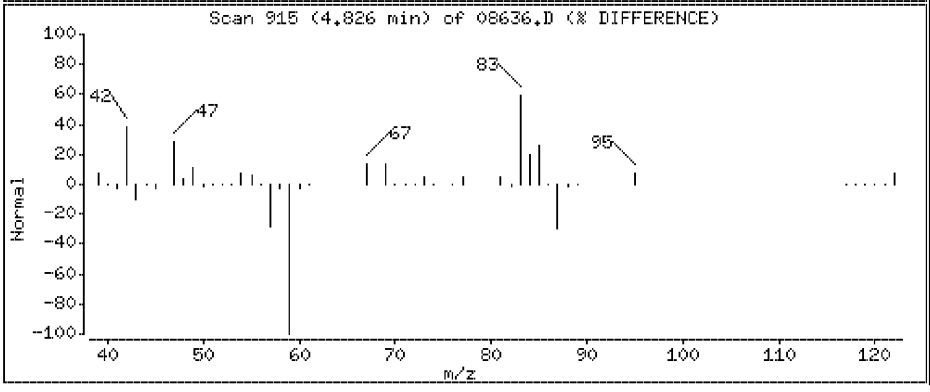
39 Chloroform

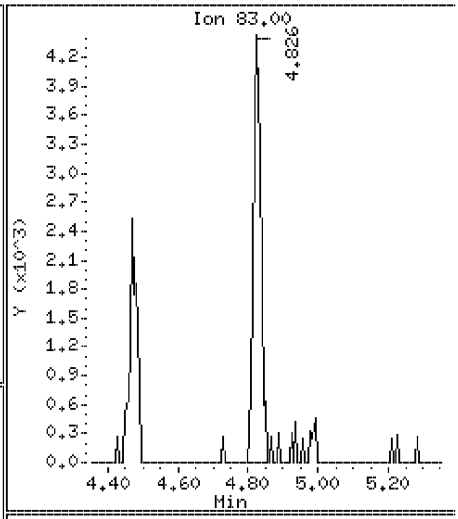
Concentration: 0.119 ppbv

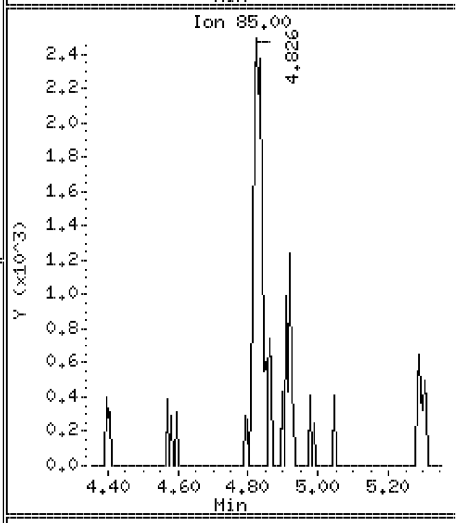


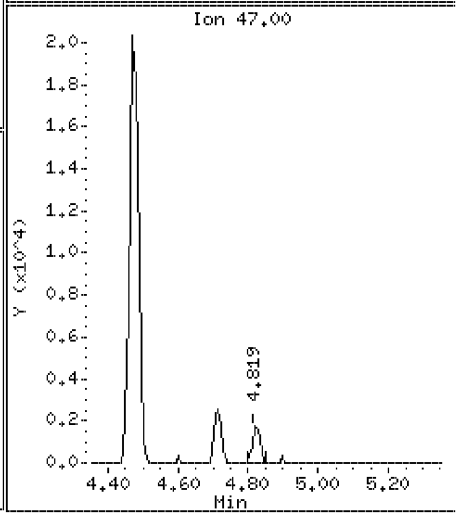












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

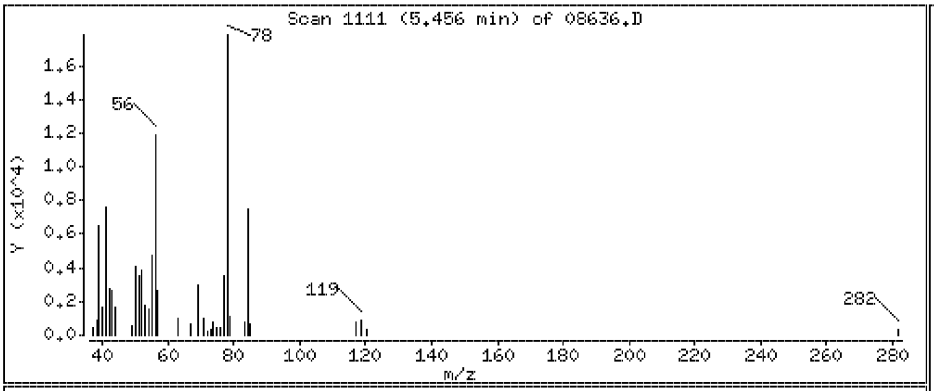
Operator: NCK

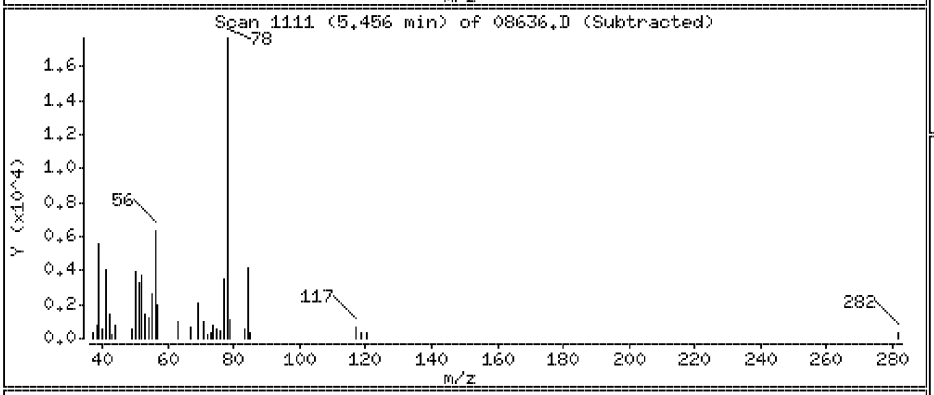
Column phase: J&W DB-5

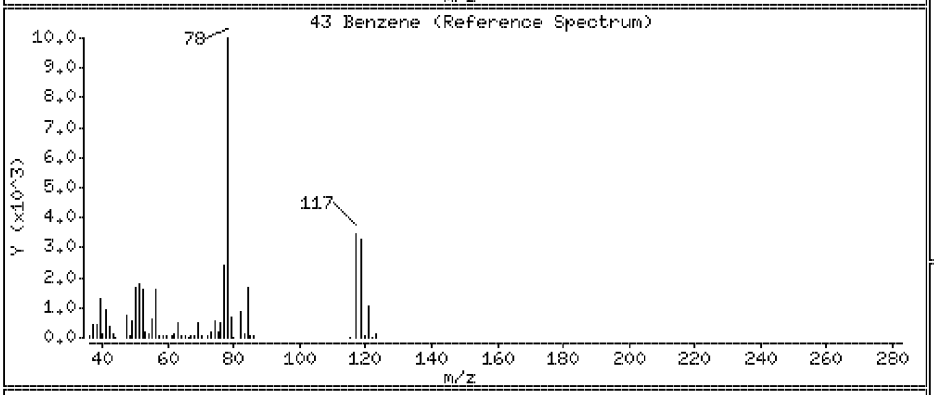
Column diameter: 0.32

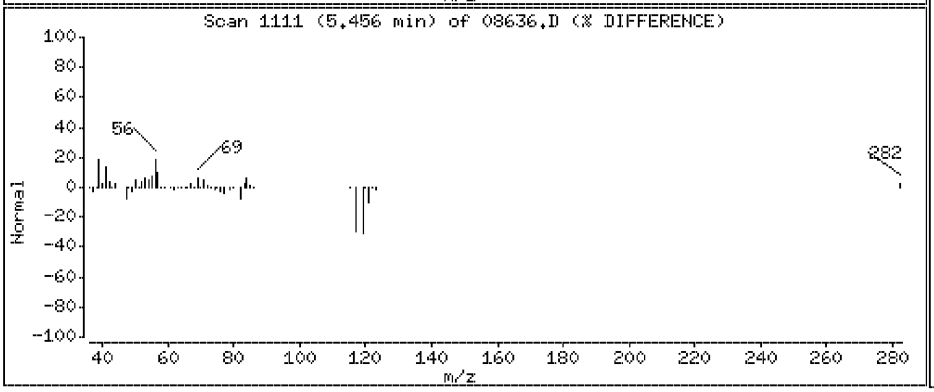
43 Benzene

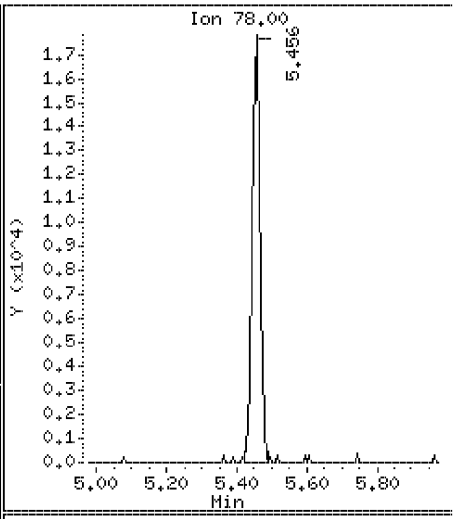
Concentration: 0.309 ppbv

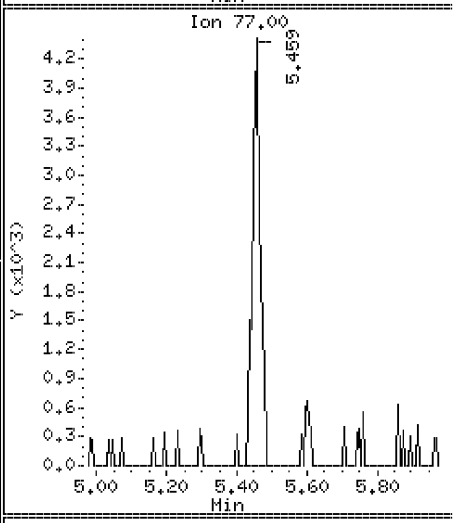


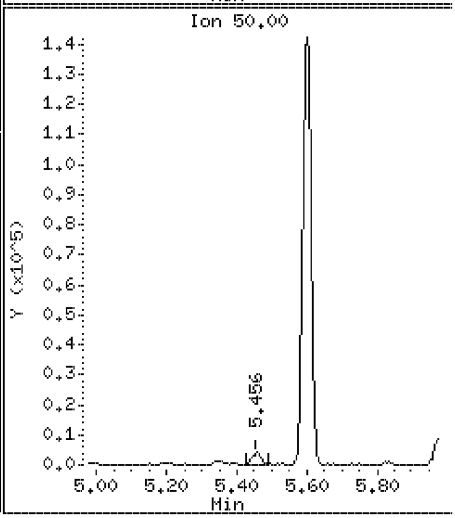












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

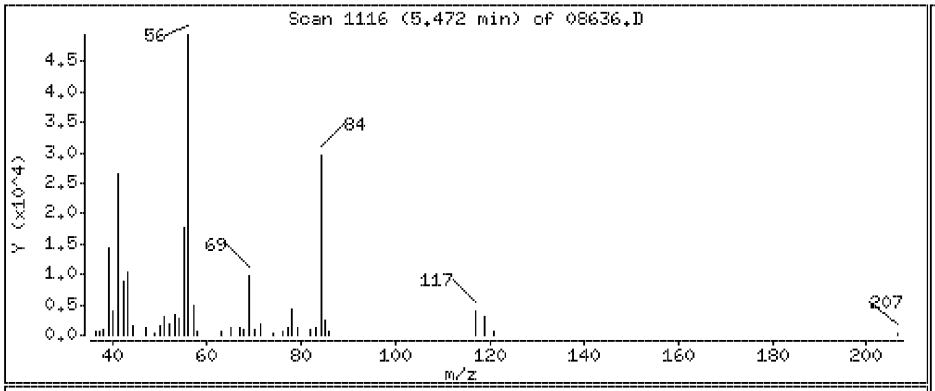
Operator: NCK

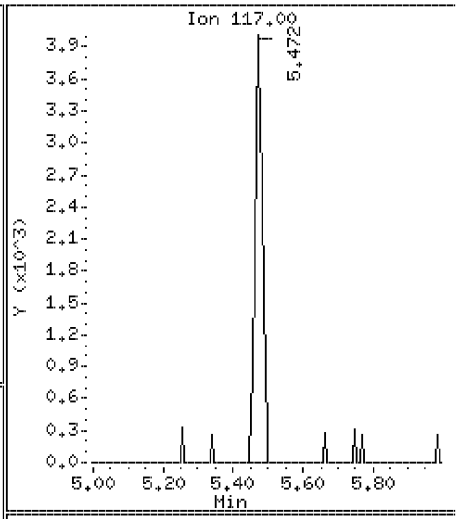
Column phase: J&W DB-5

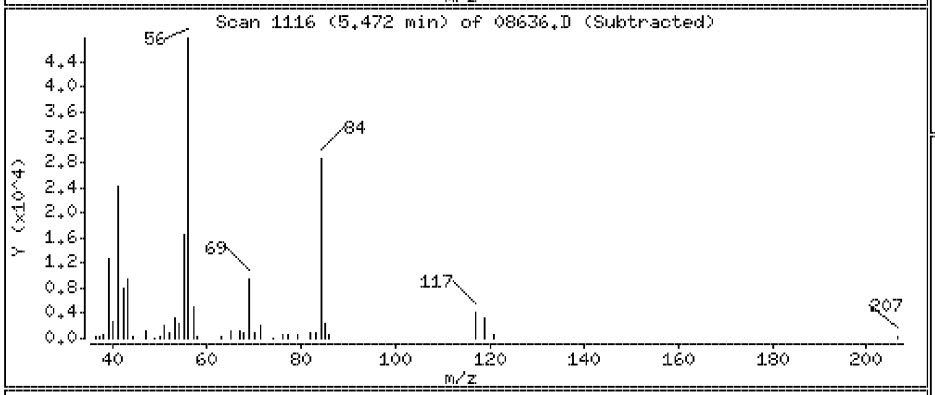
Column diameter: 0.32

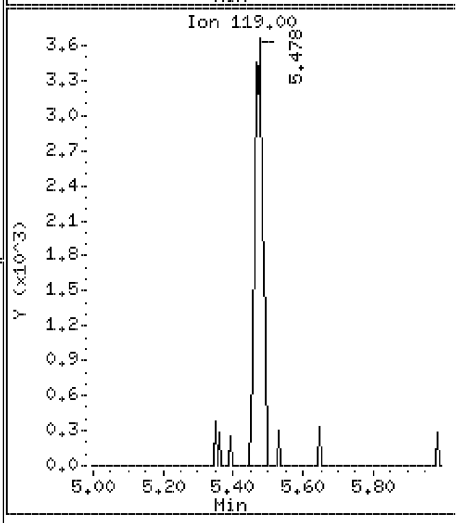
44 Carbon tetrachloride

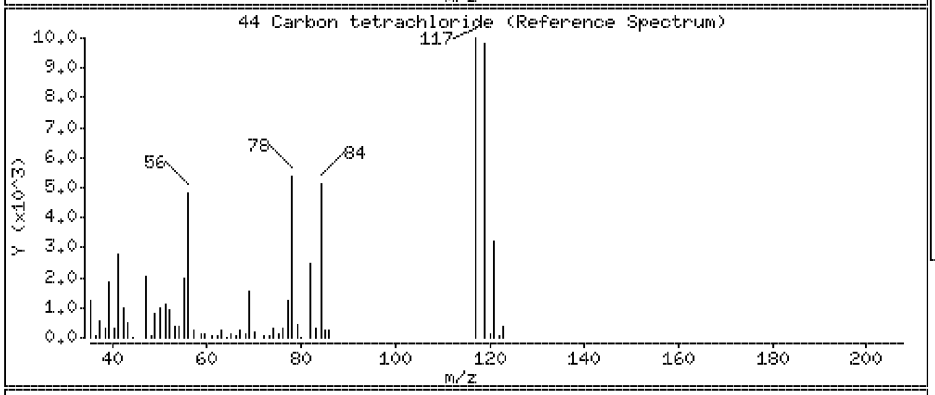
Concentration: 0.0891 ppbv

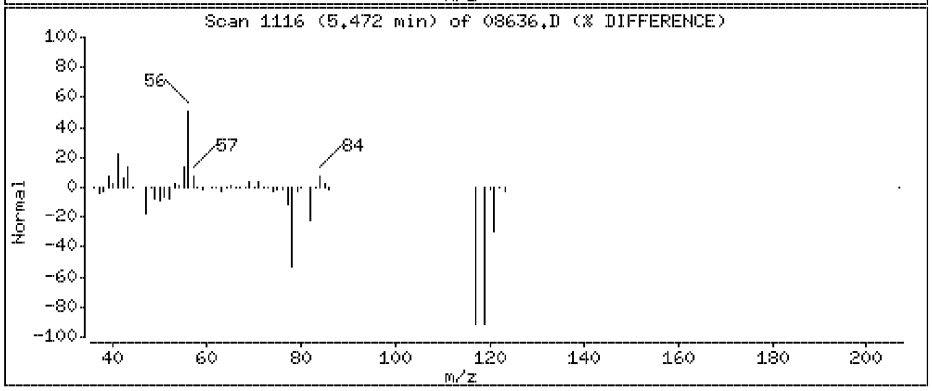












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

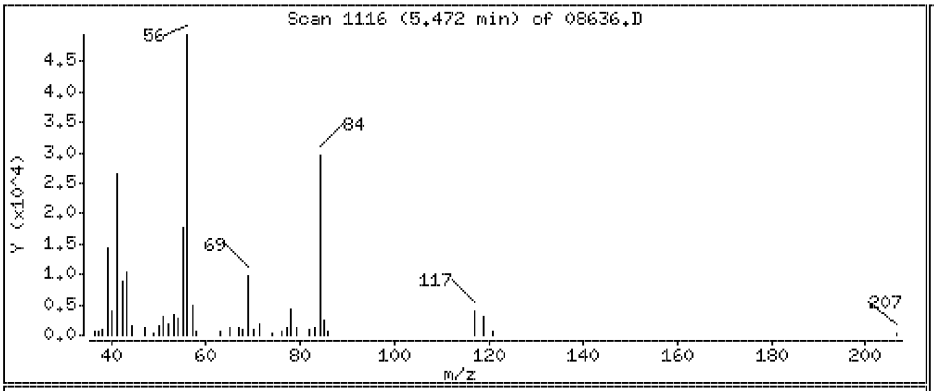
Operator: NCK

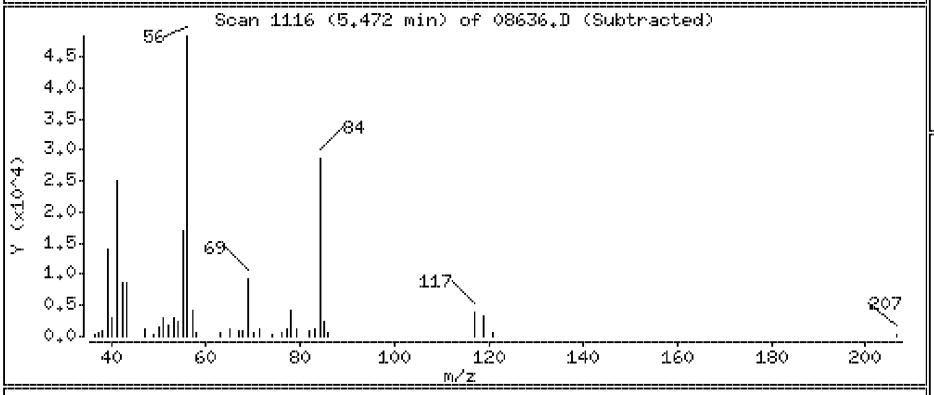
Column phase: J&W DB-5

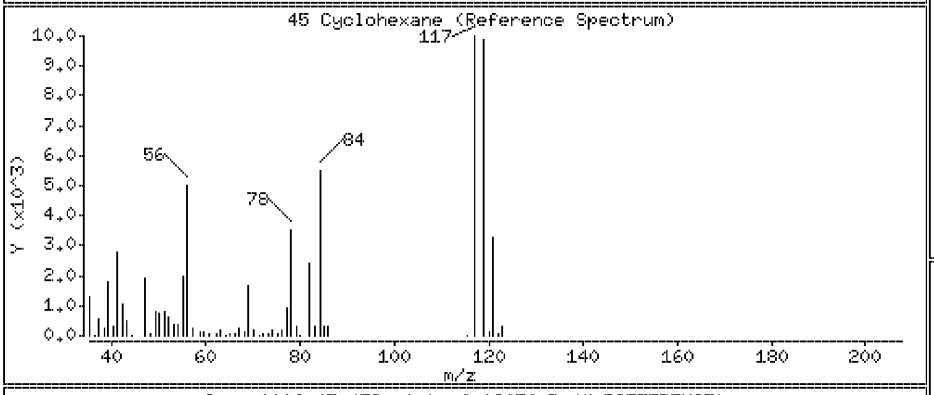
Column diameter: 0.32

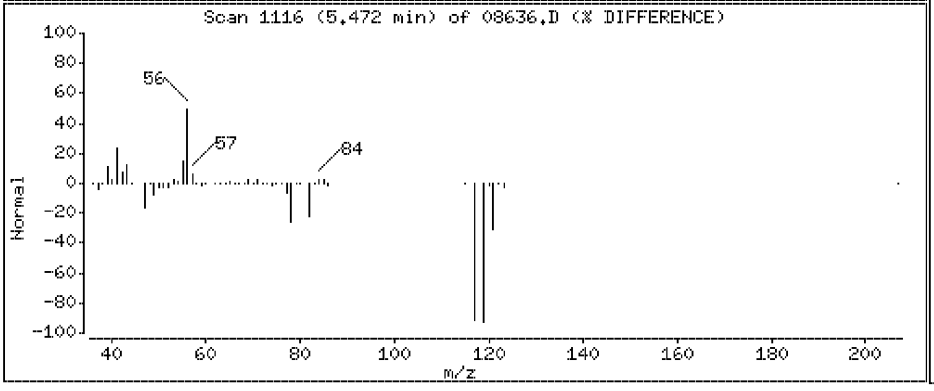
45 Cyclohexane

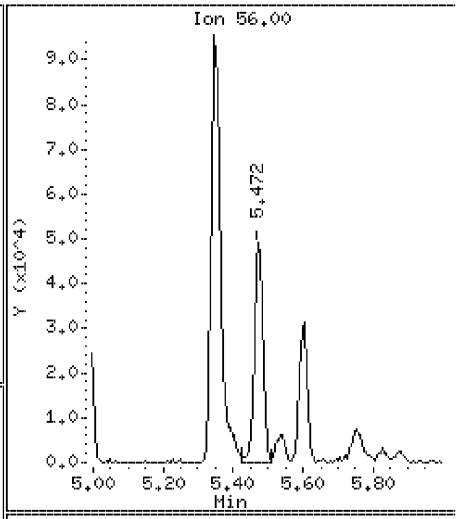
Concentration: 1.60 ppbv

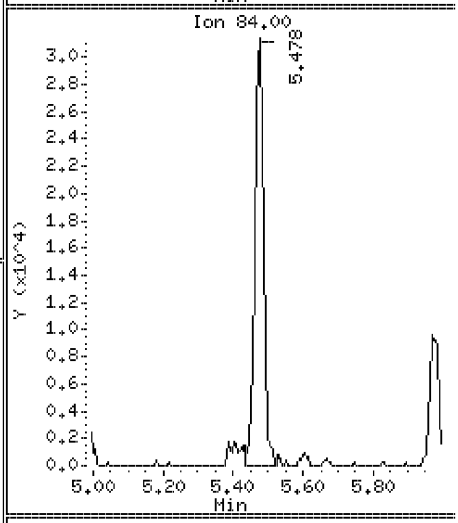


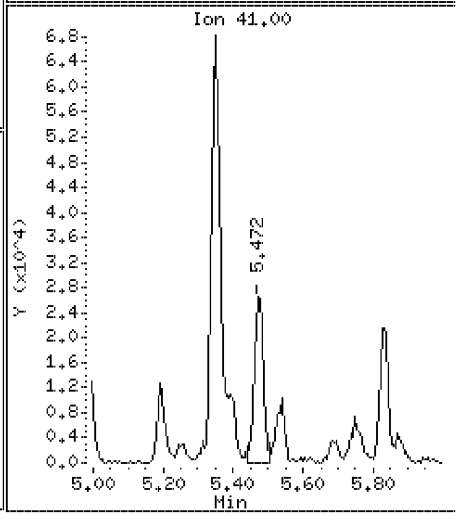












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

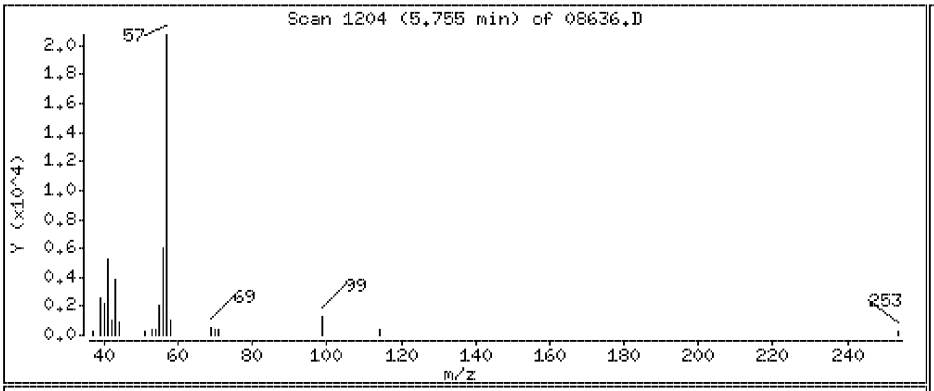
Operator: NCK

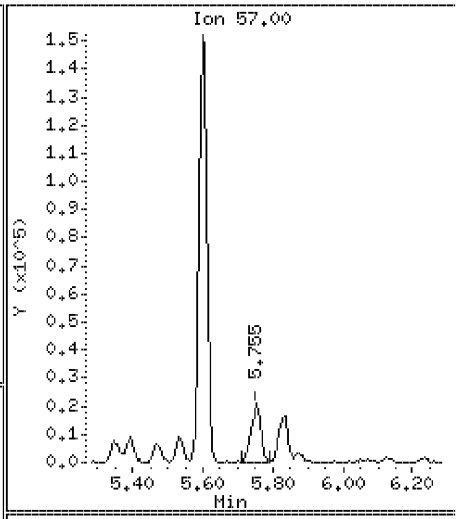
Column phase: J&W DB-5

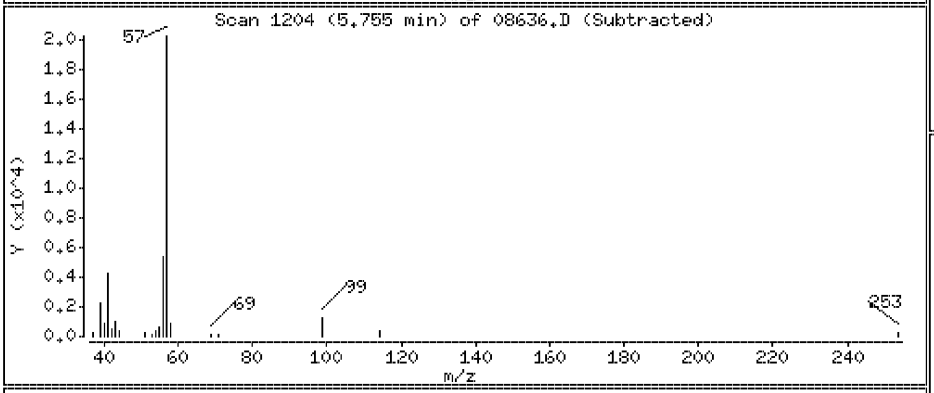
Column diameter: 0.32

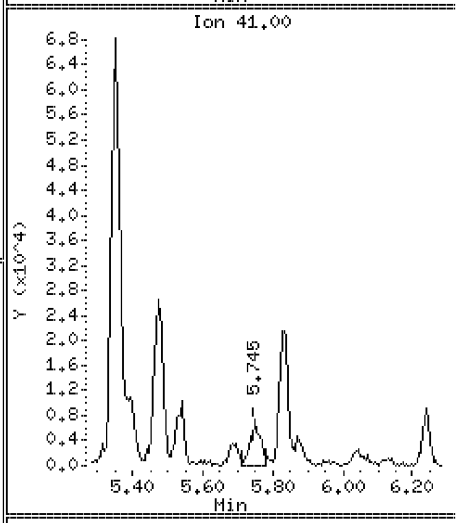
48 2,2,4-Trimethylpentane

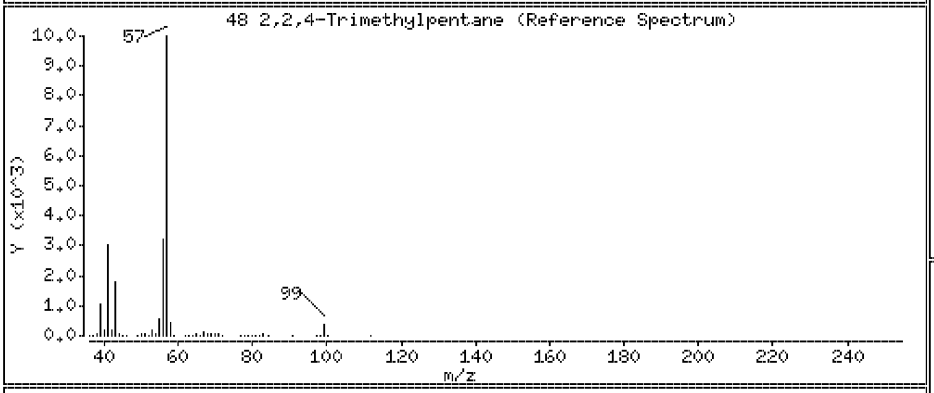
Concentration: 0.252 ppbv

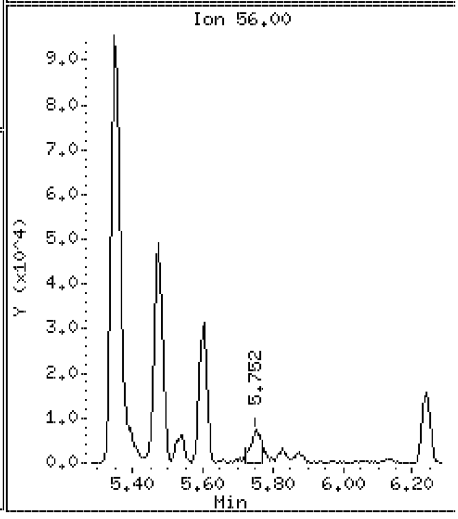


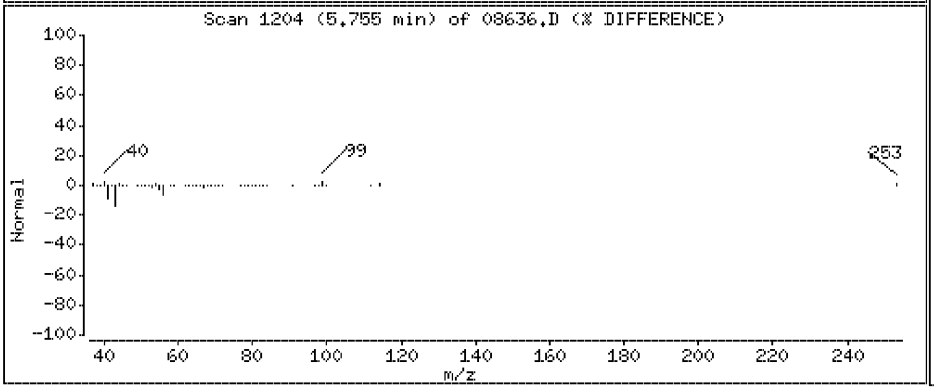












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

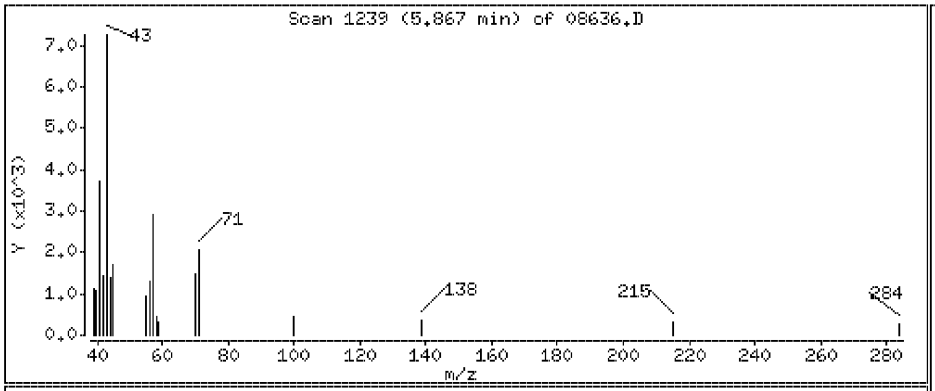
Operator: NCK

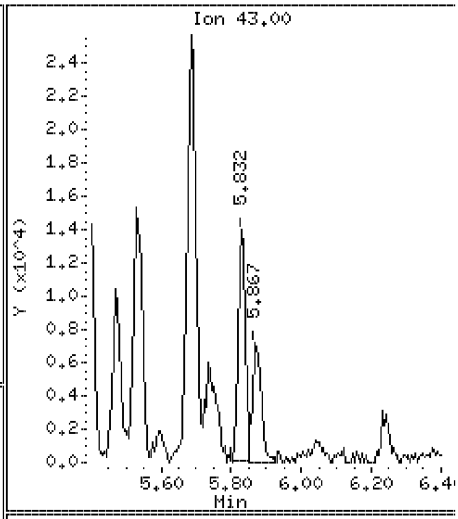
Column phase: J&W DB-5

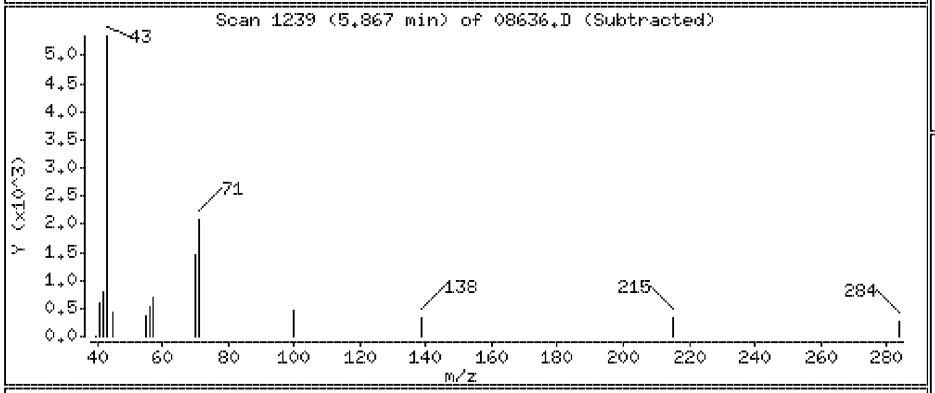
Column diameter: 0.32

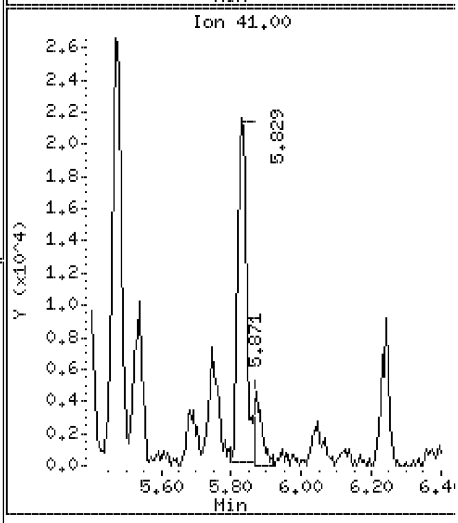
49 Heptane

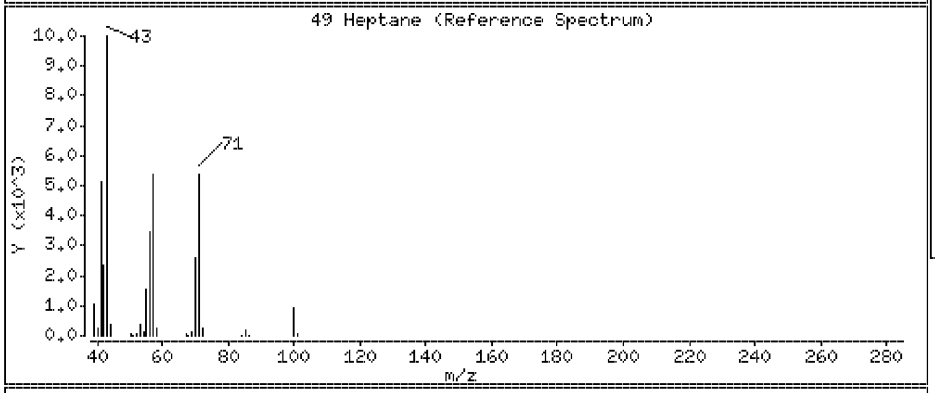
Concentration: 0.215 ppbv

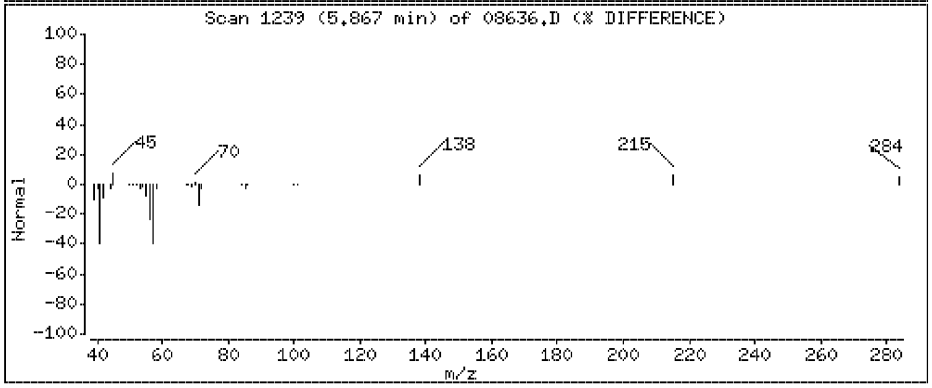












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

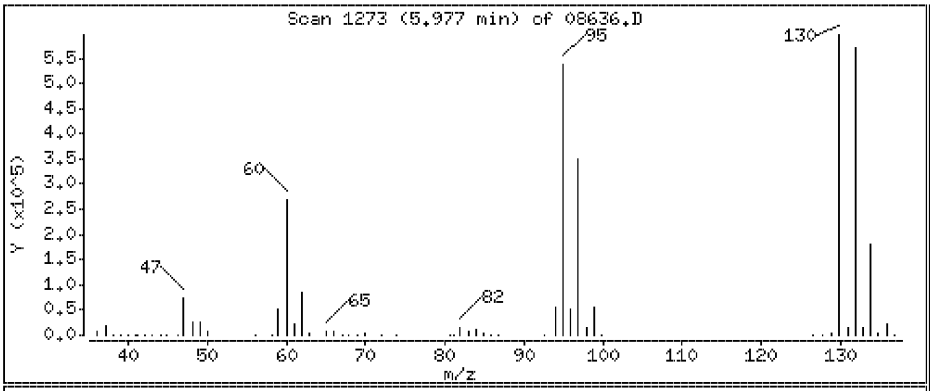
Operator: NCK

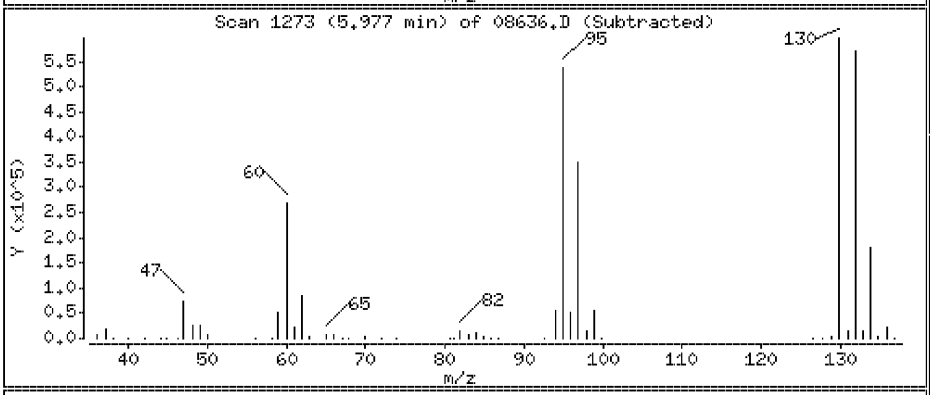
Column phase: J&W DB-5

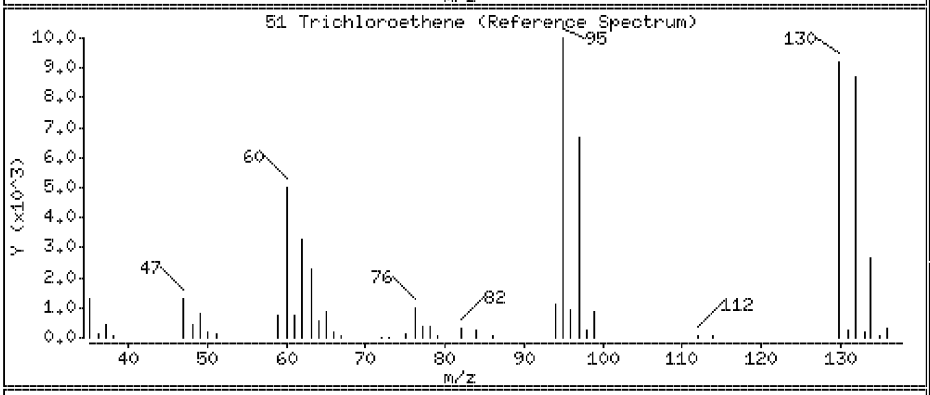
Column diameter: 0.32

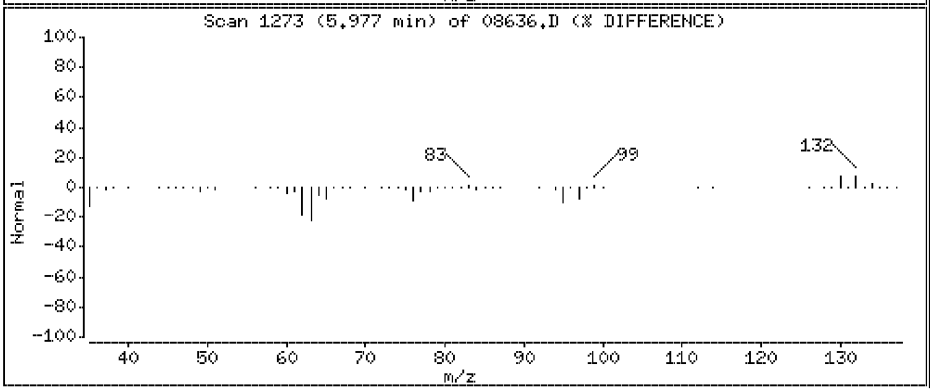
51 Trichloroethene

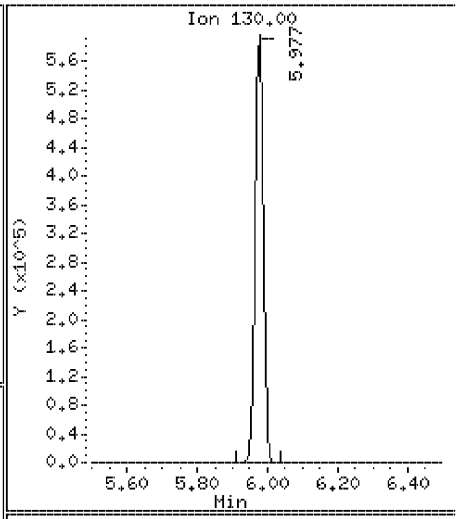
Concentration: 20.7 ppbv

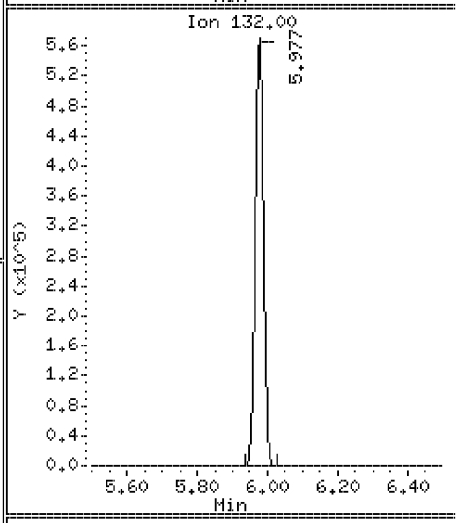


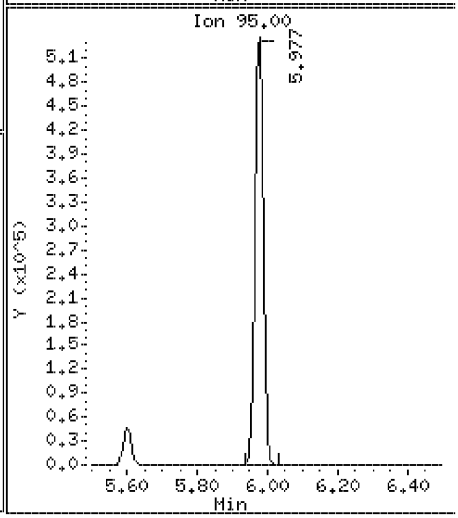












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

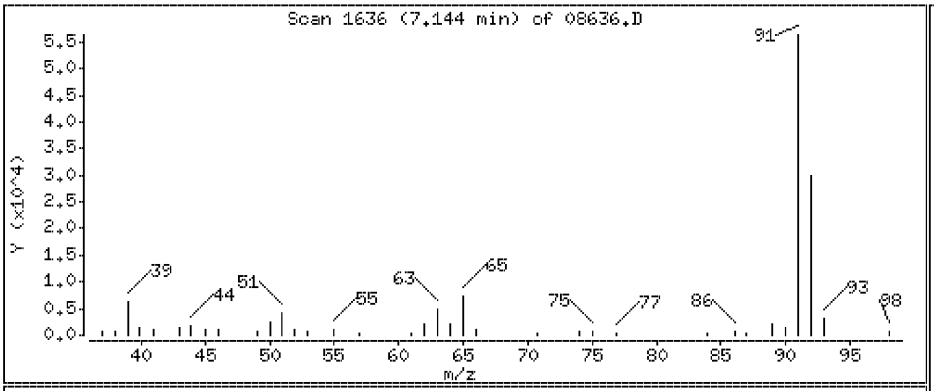
Operator: NCK

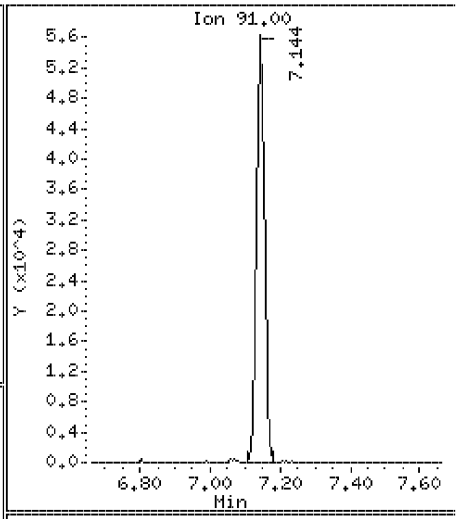
Column phase: J&W DB-5

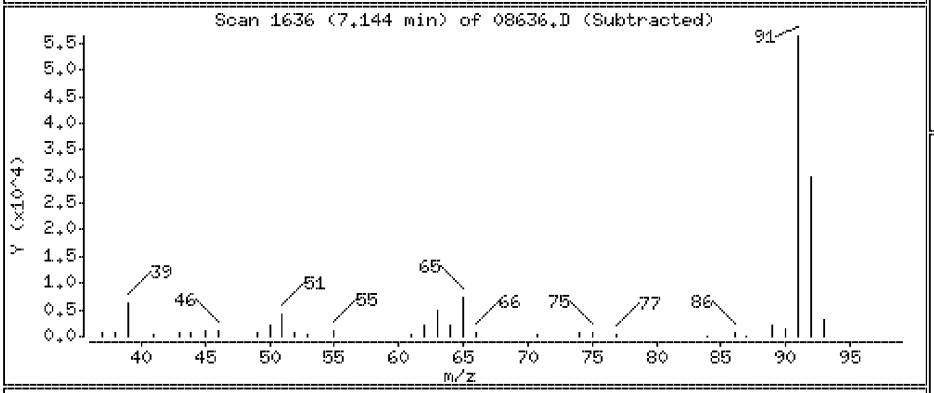
Column diameter: 0.32

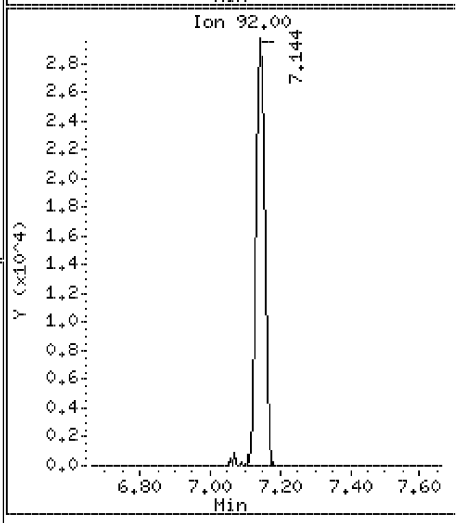
61 Toluene

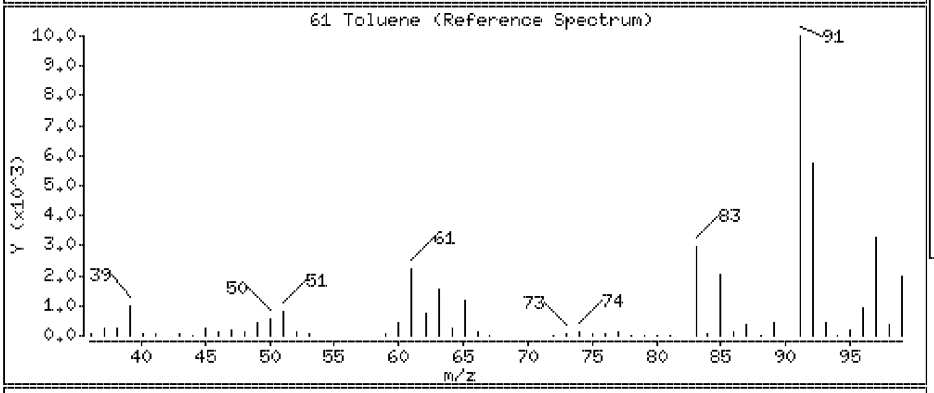
Concentration: 0.822 ppbv

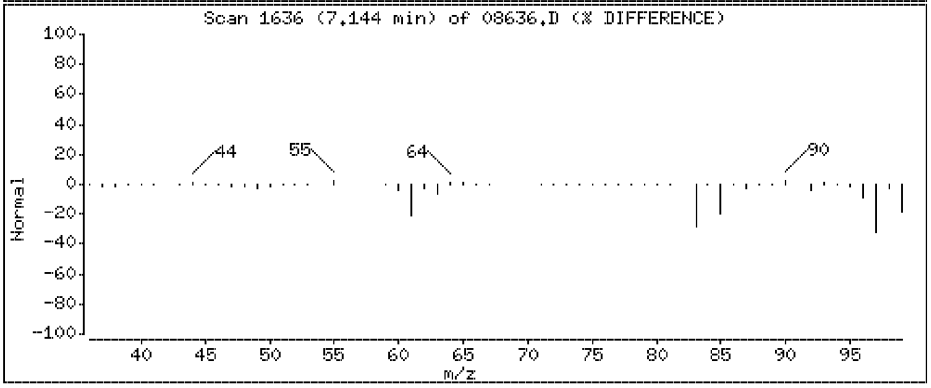












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

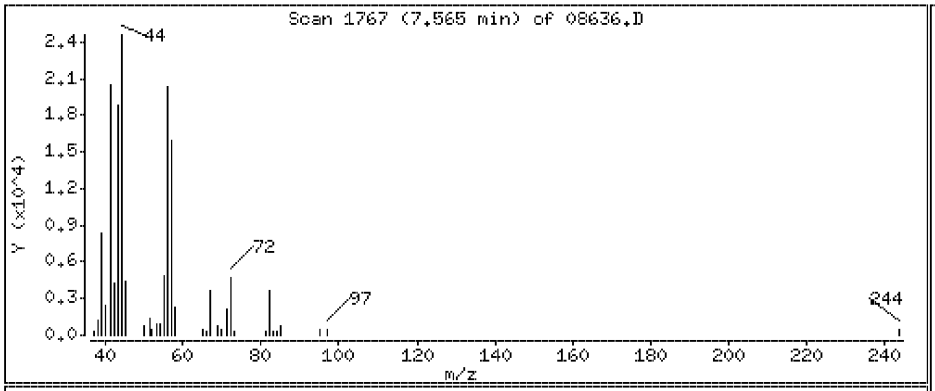
Operator: NCK

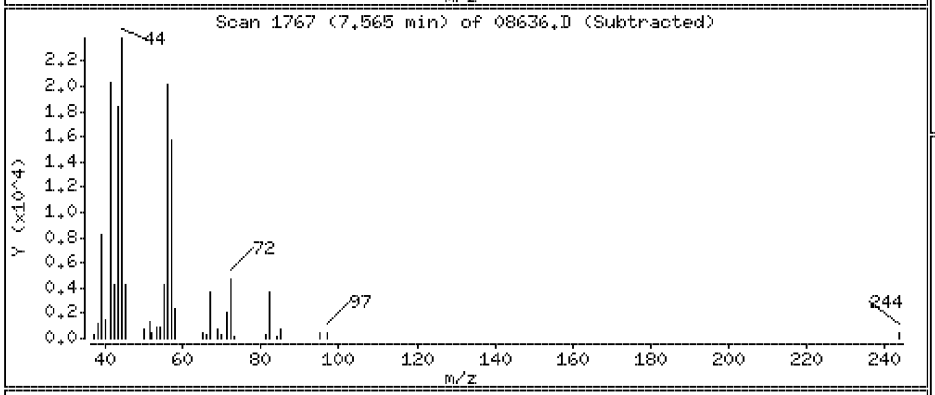
Column phase: J&W DB-5

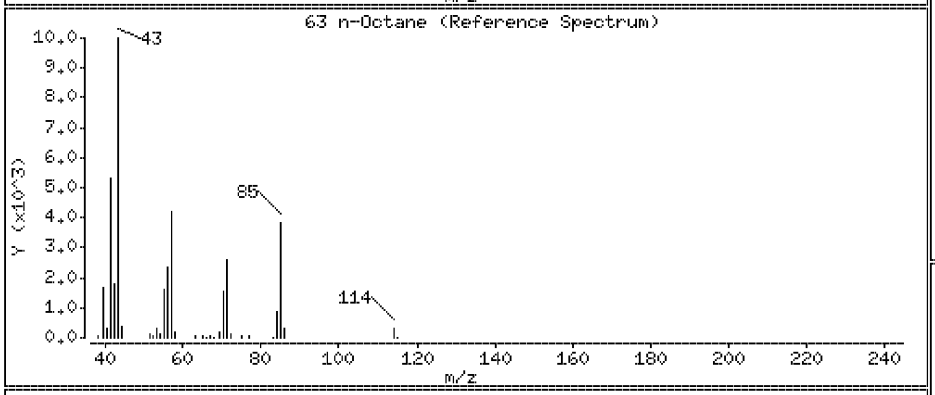
Column diameter: 0.32

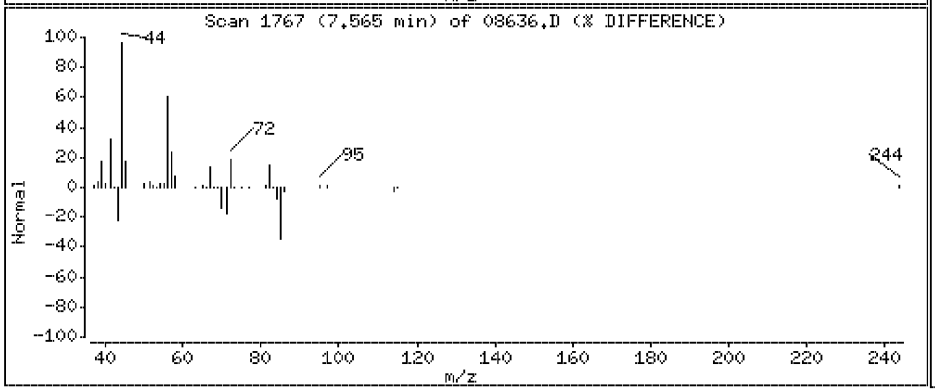
63 n-Octane

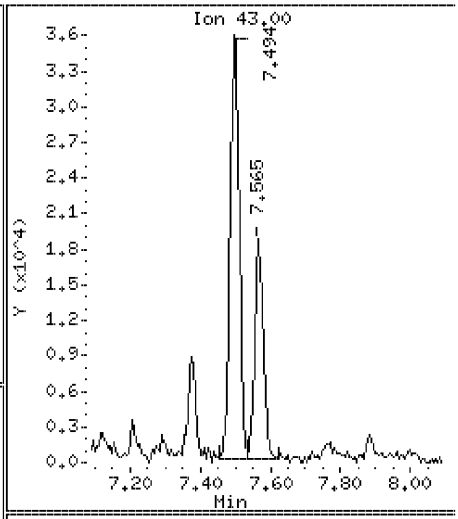
Concentration: 0.400 ppbv

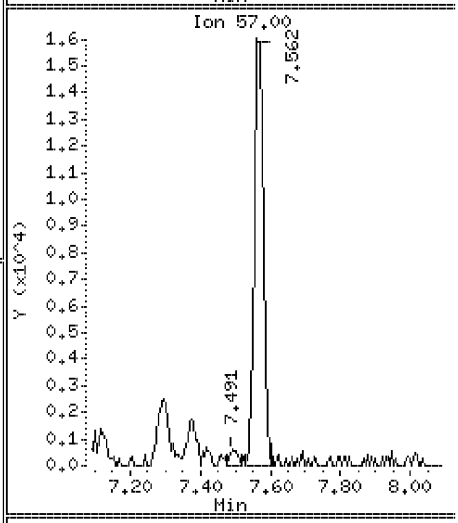


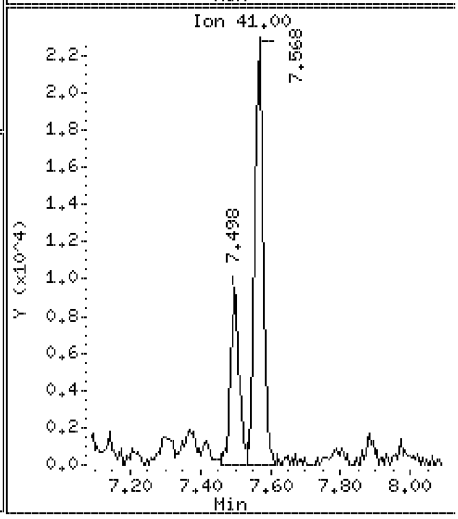












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

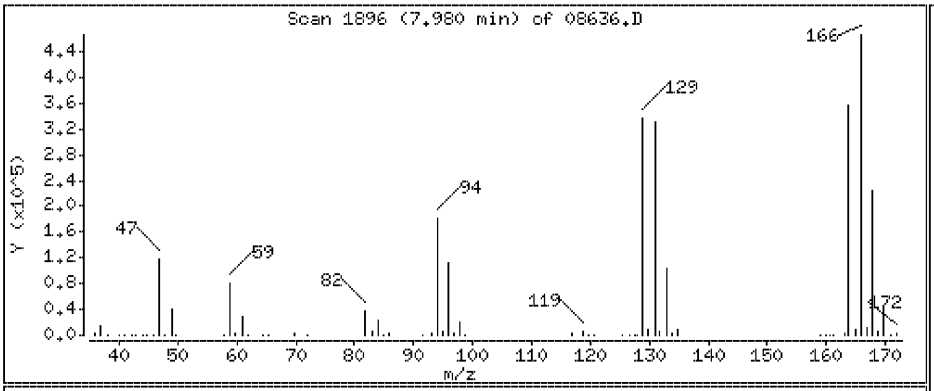
Operator: NCK

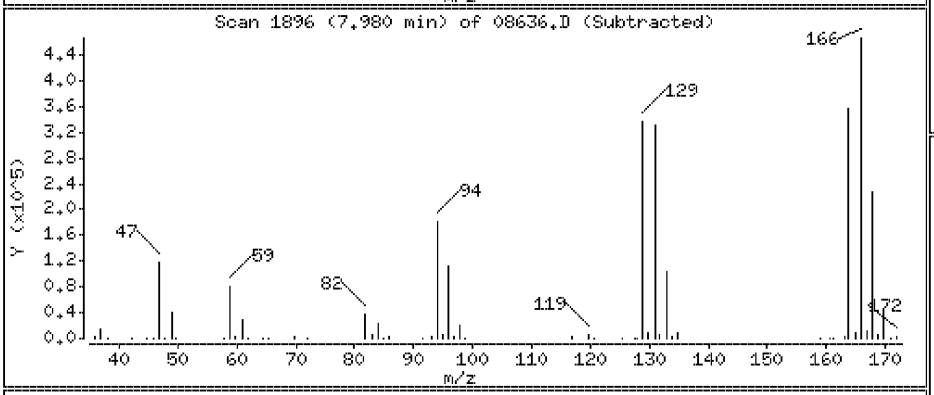
Column phase: J&W DB-5

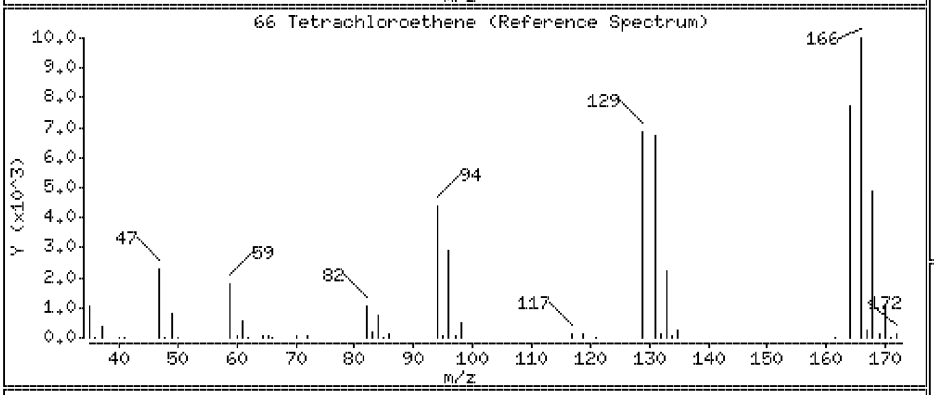
Column diameter: 0.32

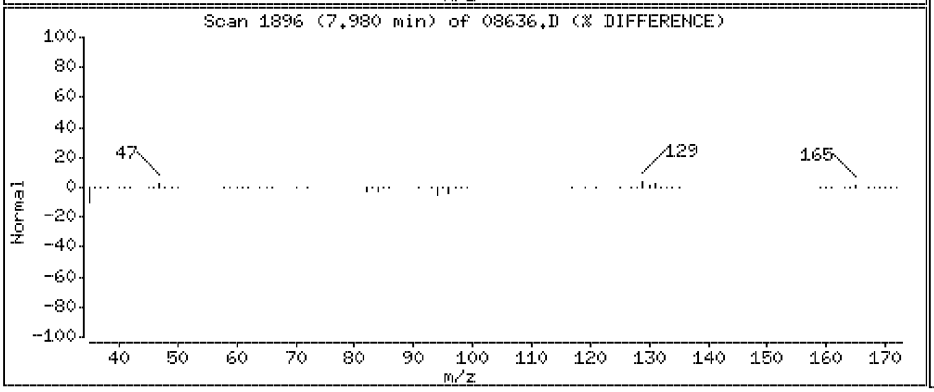
66 Tetrachloroethene

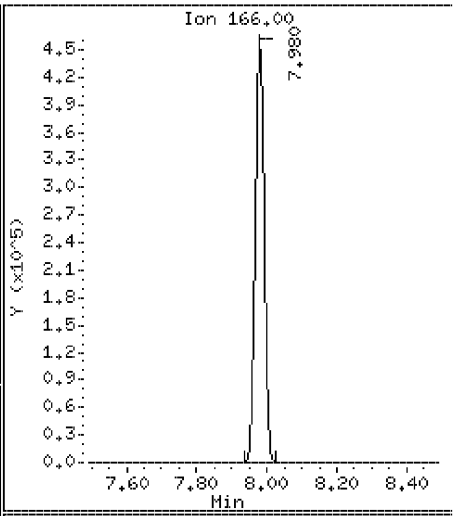
Concentration: 12.8 ppbv

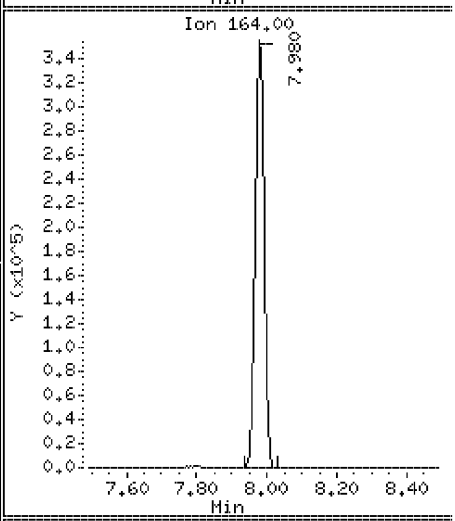


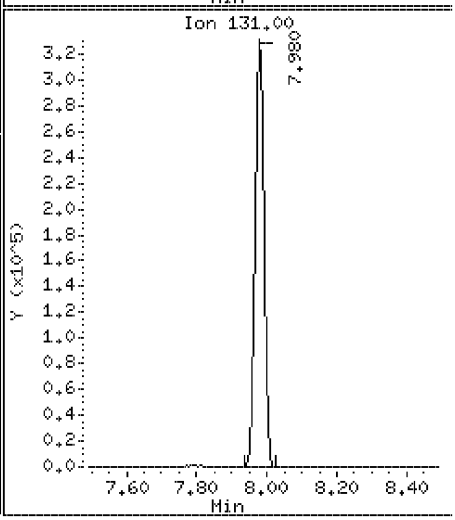












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

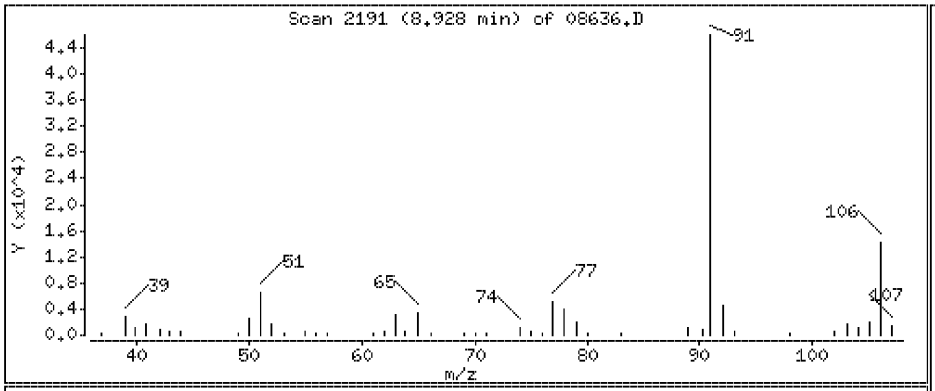
Operator: NCK

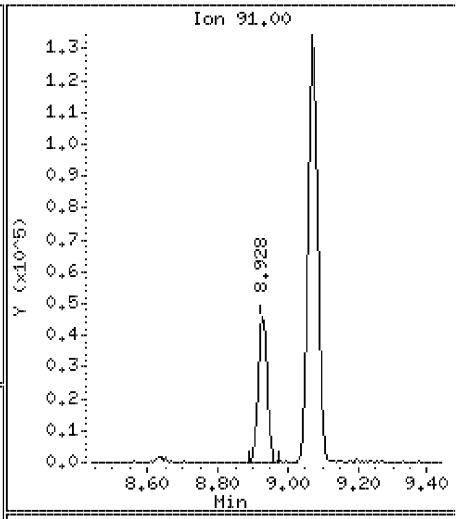
Column phase: J&W DB-5

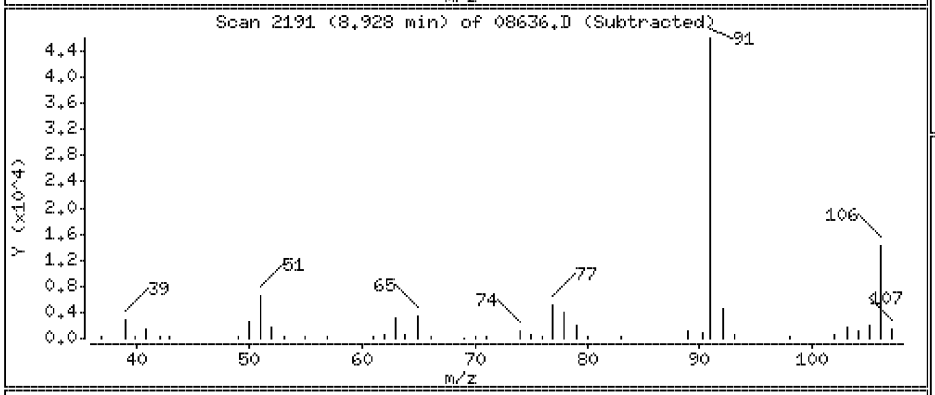
Column diameter: 0.32

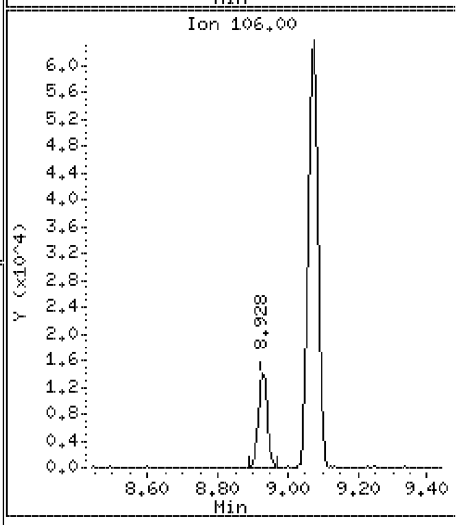
69 Ethyl Benzene

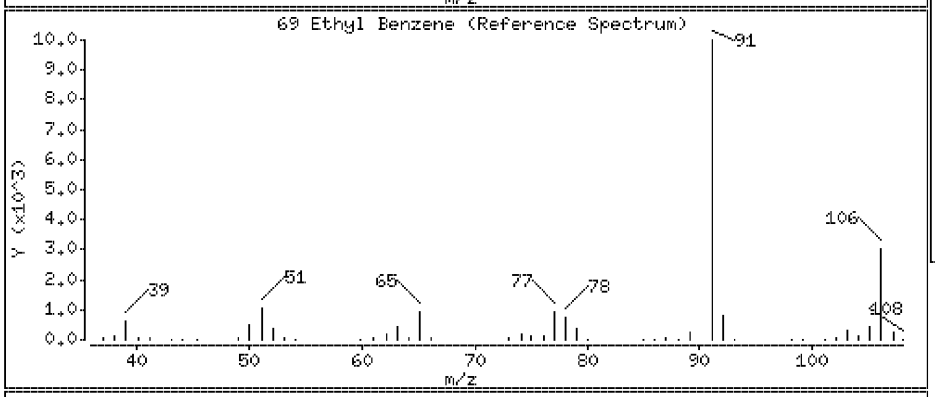
Concentration: 0.584 ppbv

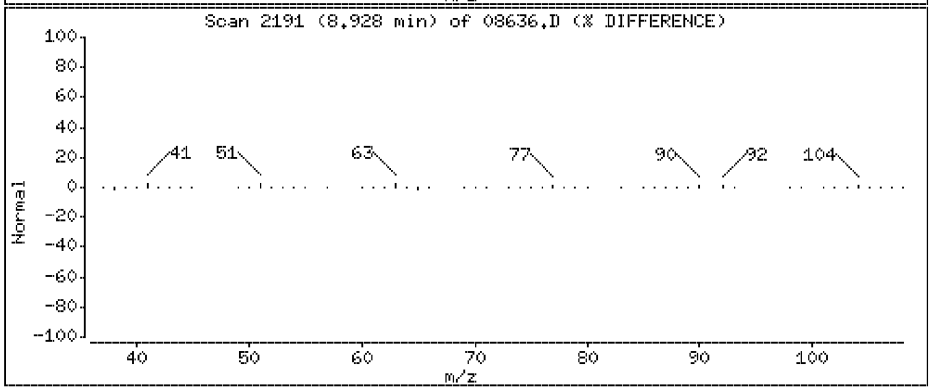












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

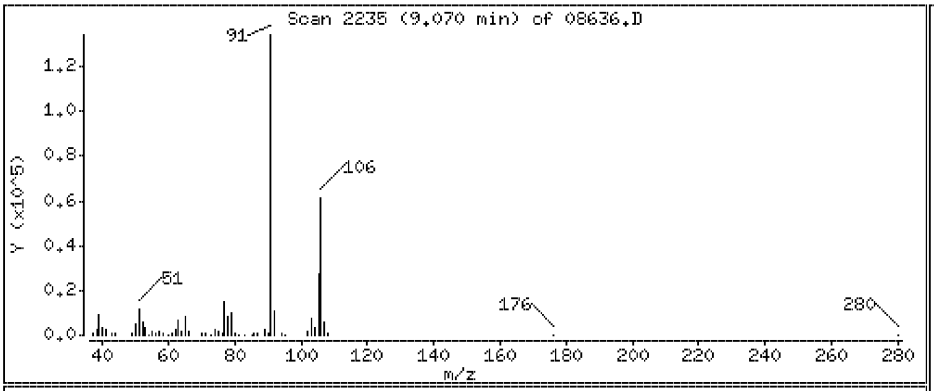
Operator: NCK

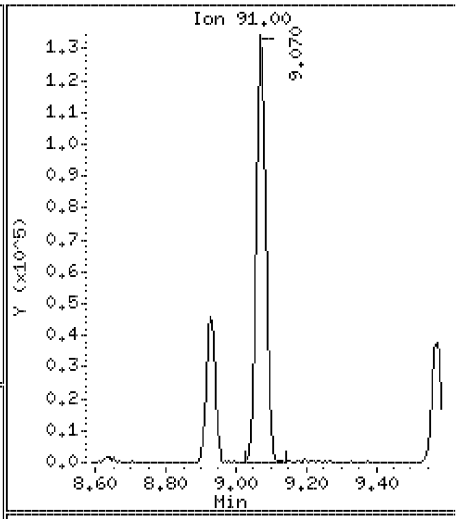
Column phase: J&W DB-5

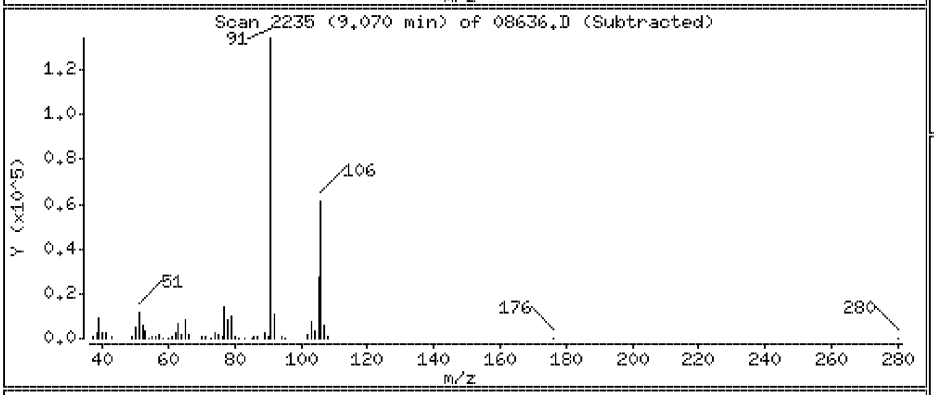
Column diameter: 0.32

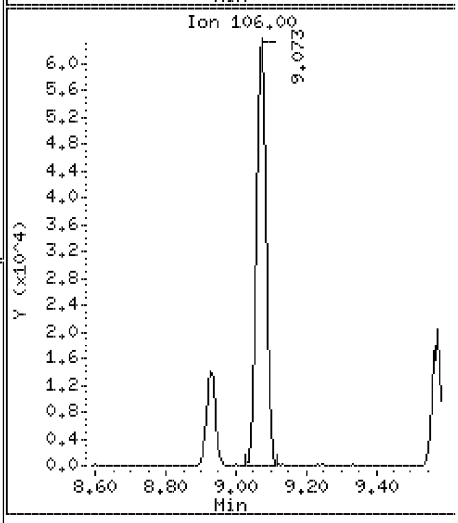
70 m&p-Xylene

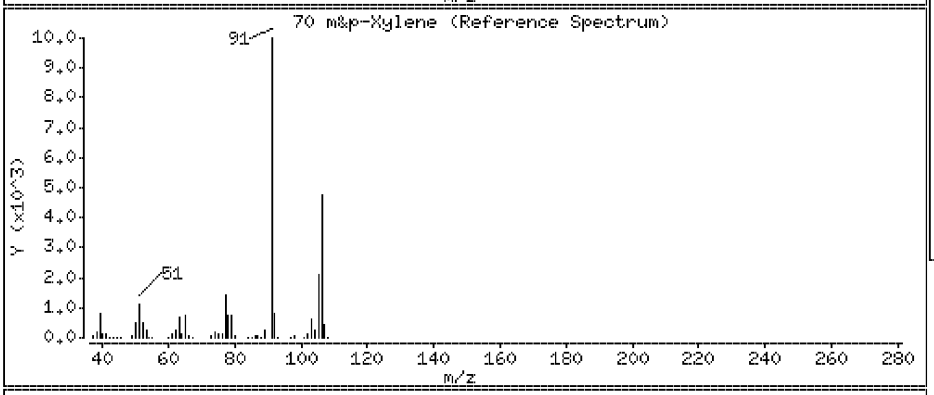
Concentration: 2.29 ppbv

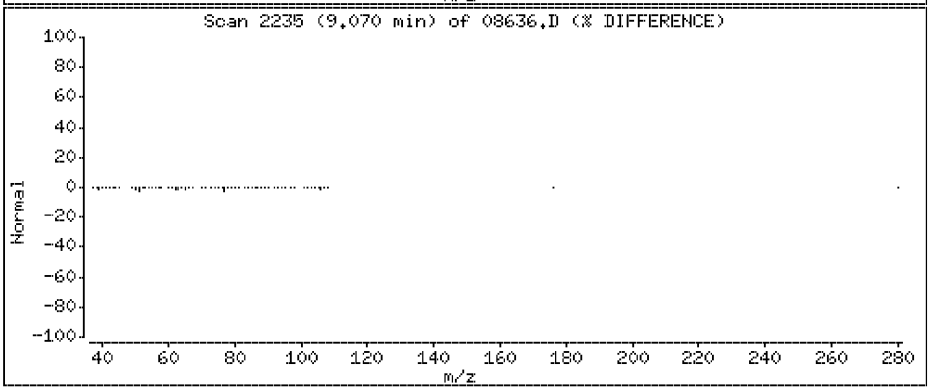












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

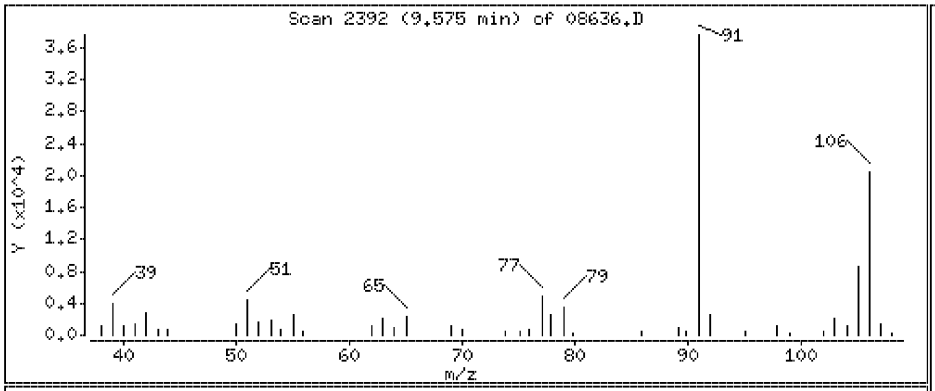
Operator: NCK

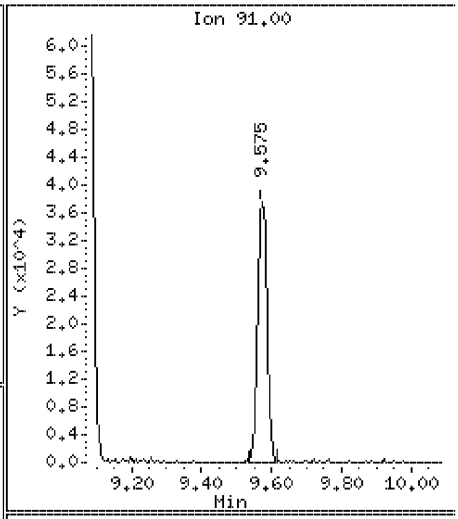
Column phase: J&W DB-5

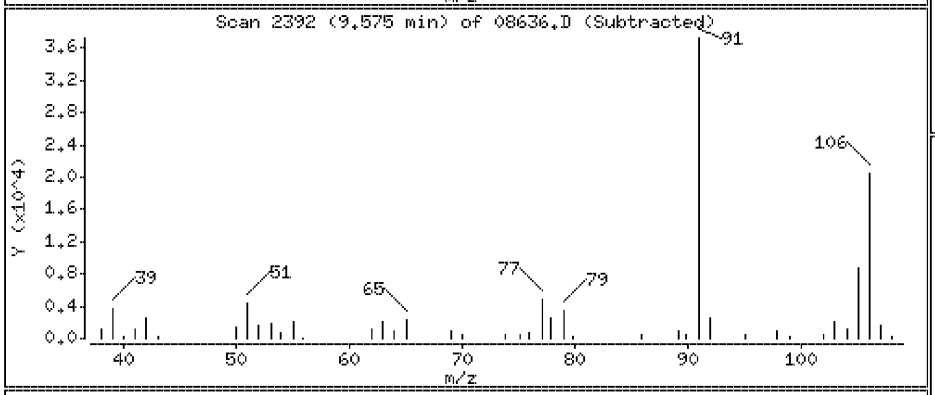
Column diameter: 0.32

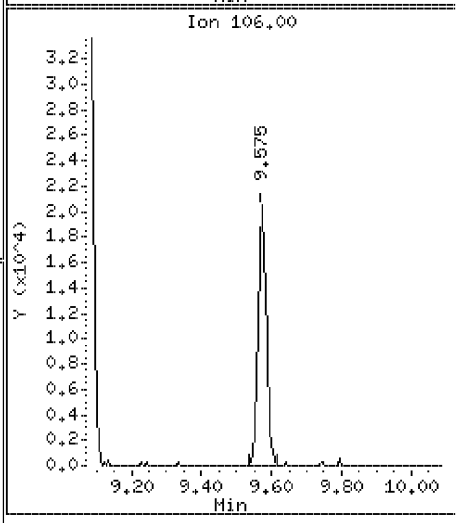
74 o-Xylene

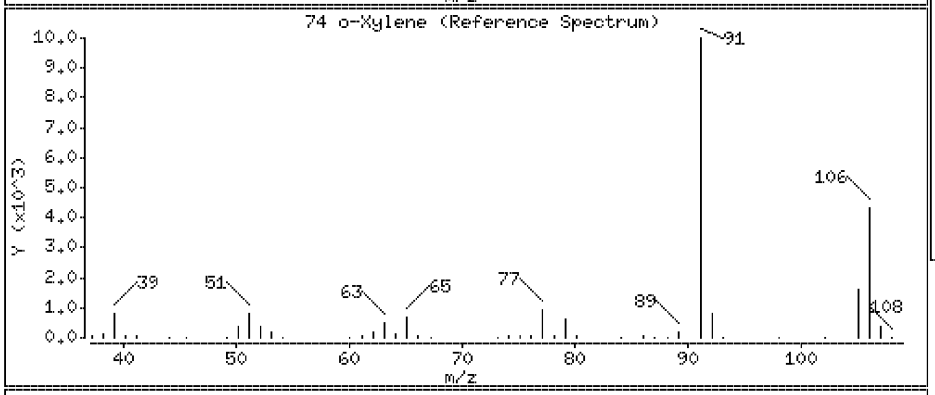
Concentration: 0.636 ppbv

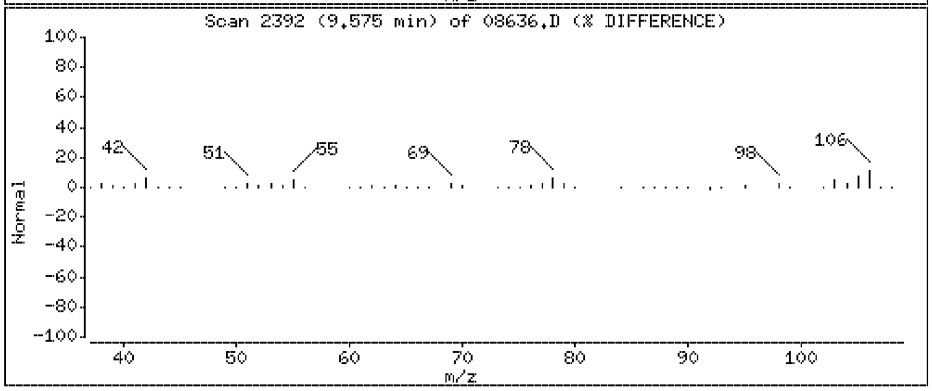












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

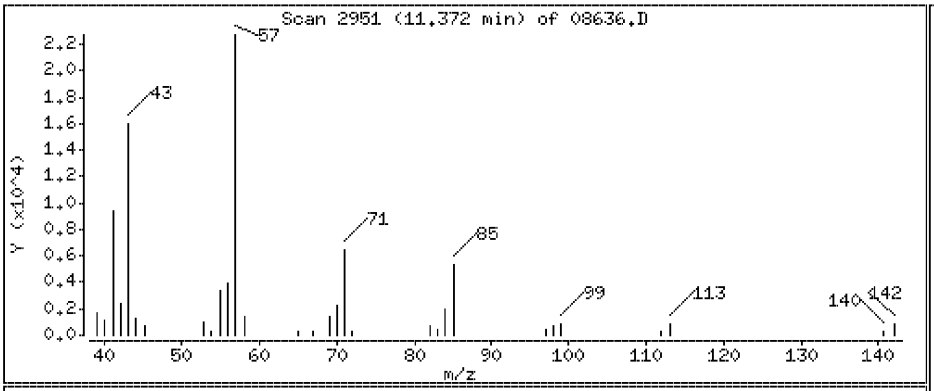
Operator: NCK

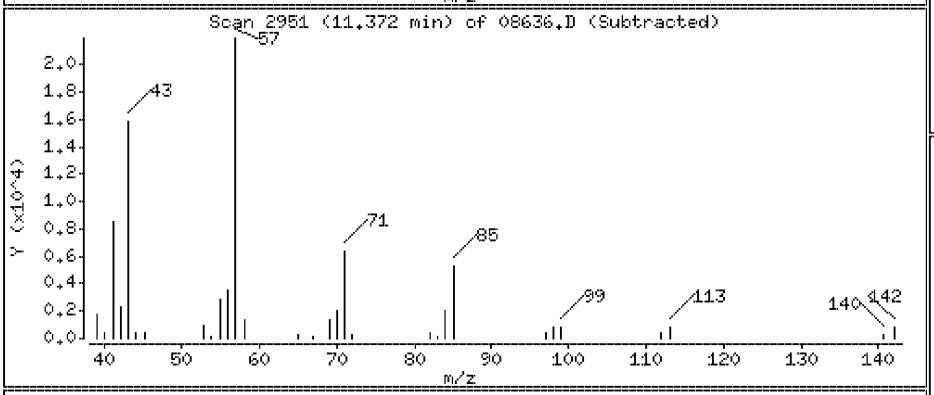
Column phase: J&W DB-5

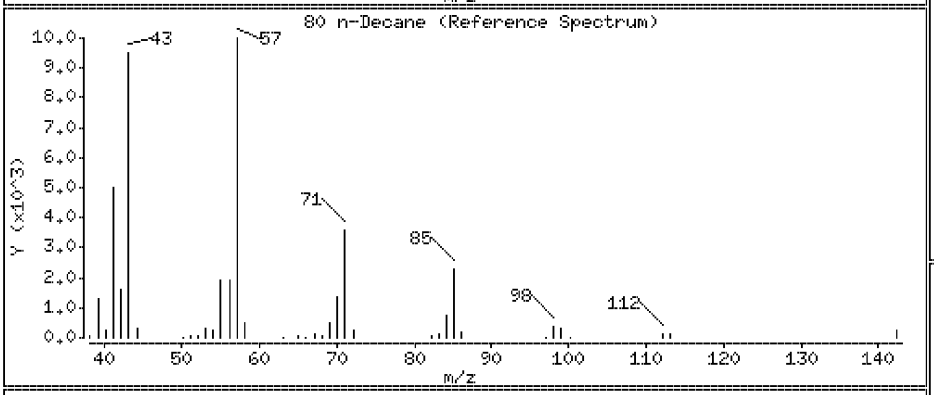
Column diameter: 0.32

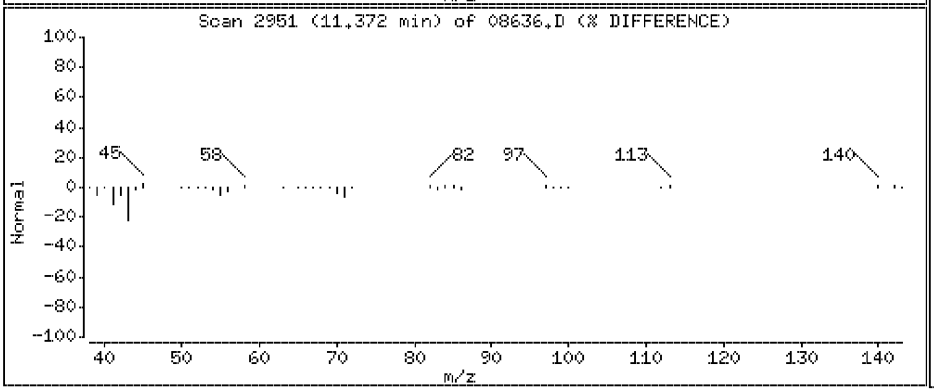
80 n-Decane

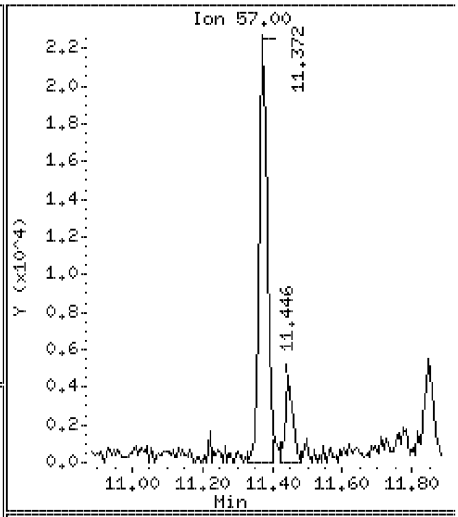
Concentration: 0.523 ppbv

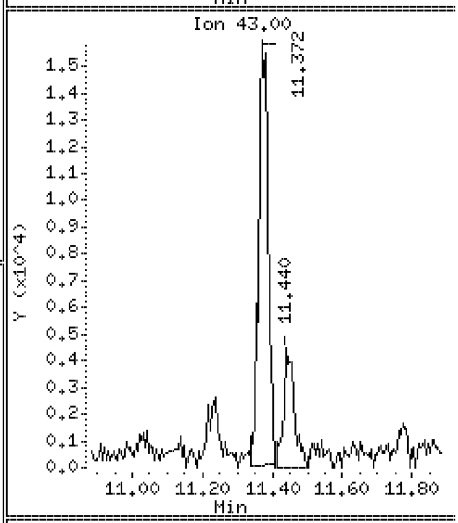


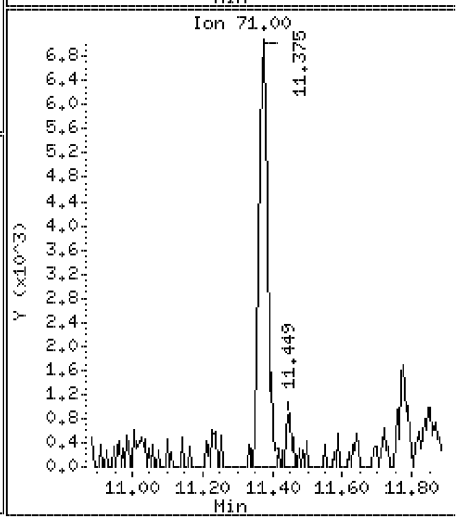












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

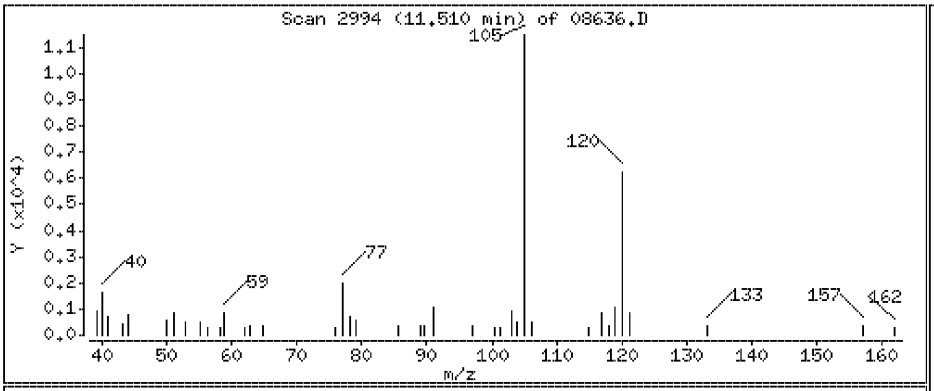
Operator: NCK

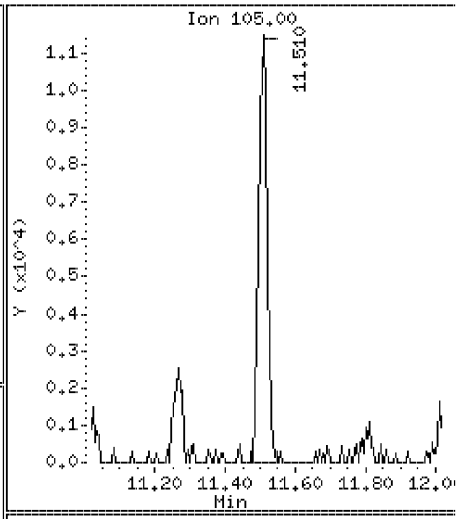
Column phase: J&W DB-5

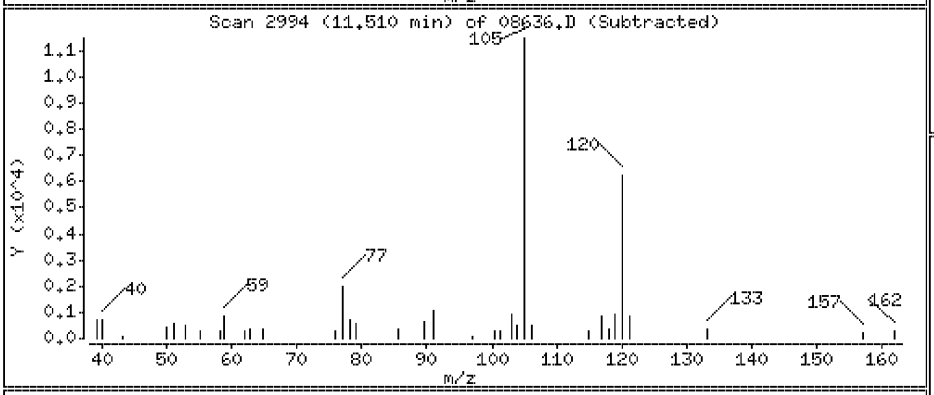
Column diameter: 0.32

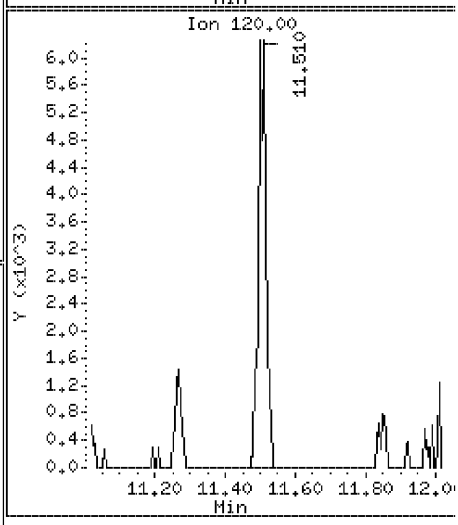
82 1,2,4-Trimethylbenzene

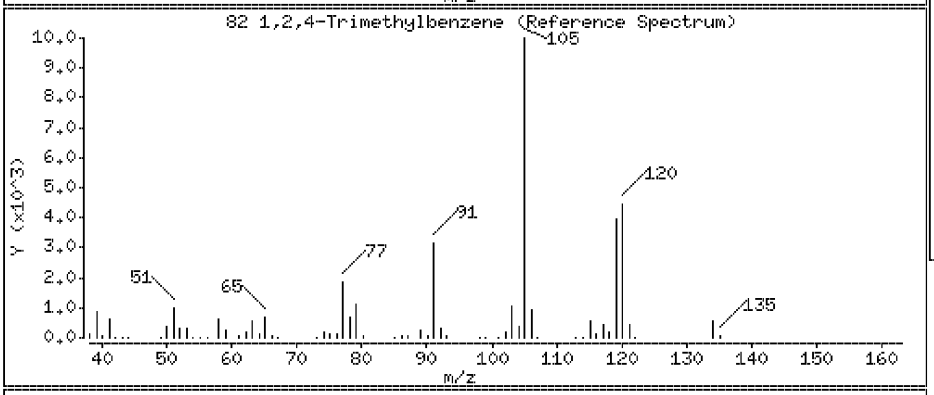
Concentration: 0.185 ppbv

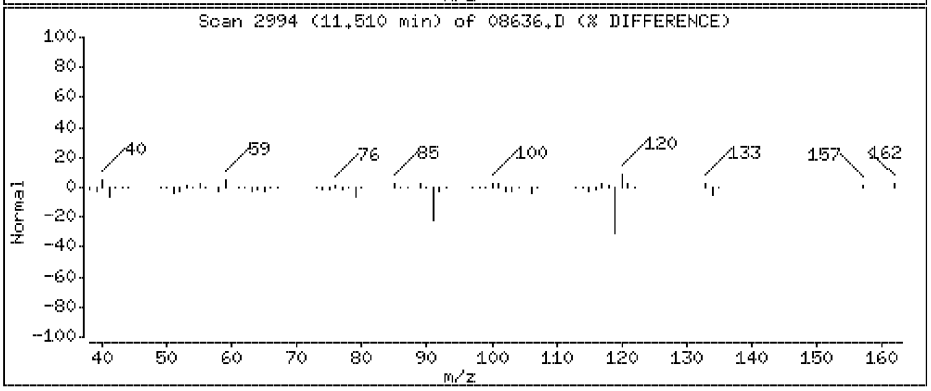












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08636.D

Date : 28-MAR-2017 02:50

Client ID:

Instrument: 10airB.i

Sample Info:

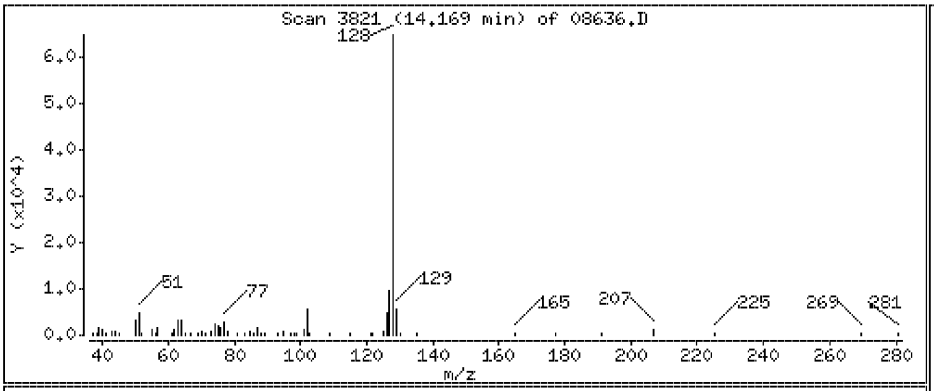
Operator: NCK

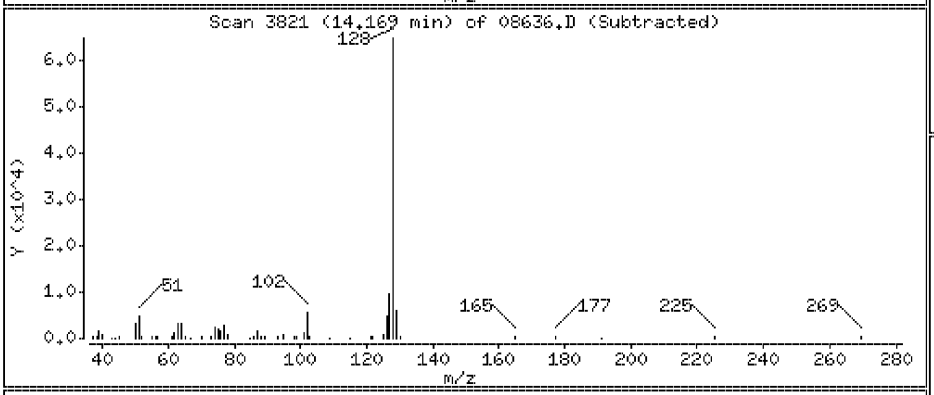
Column phase: J&W DB-5

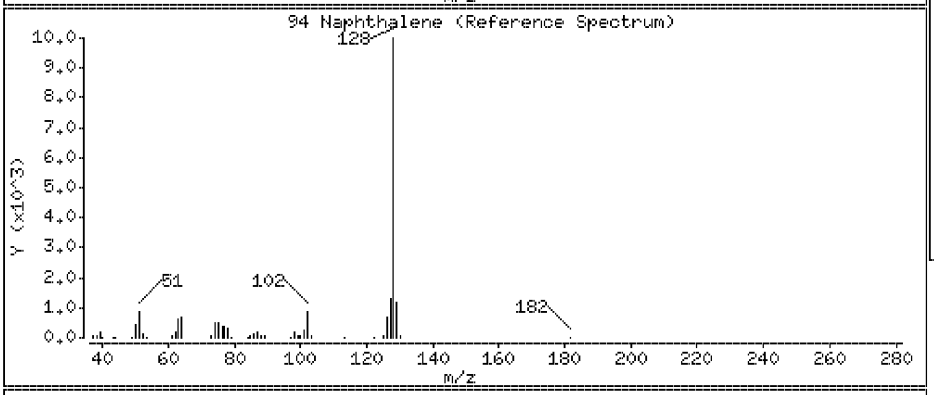
Column diameter: 0.32

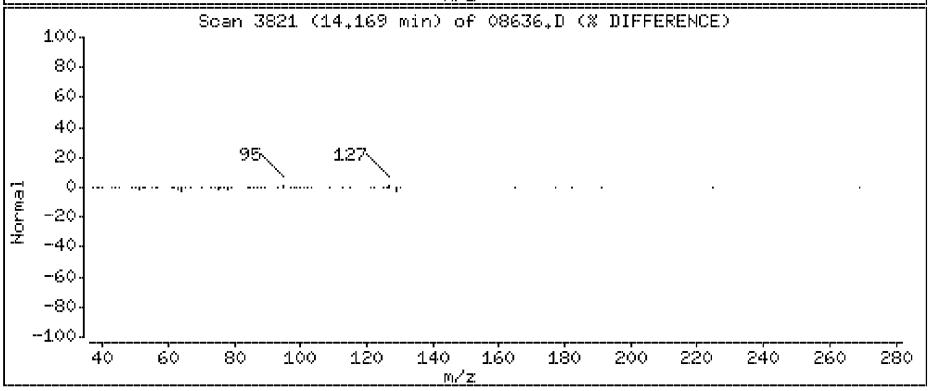
94 Naphthalene

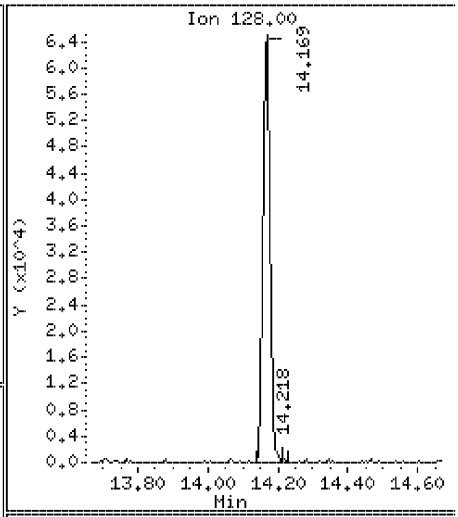
Concentration: 2.77 ppbv

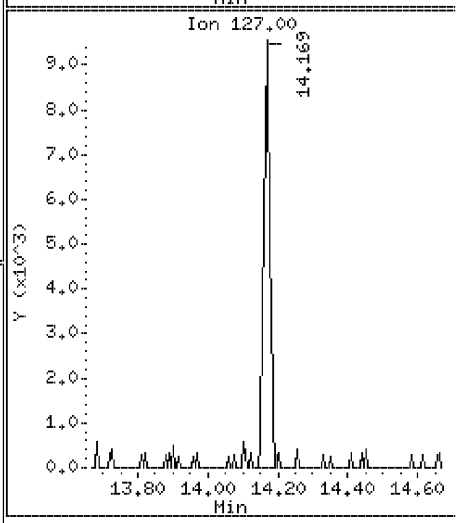






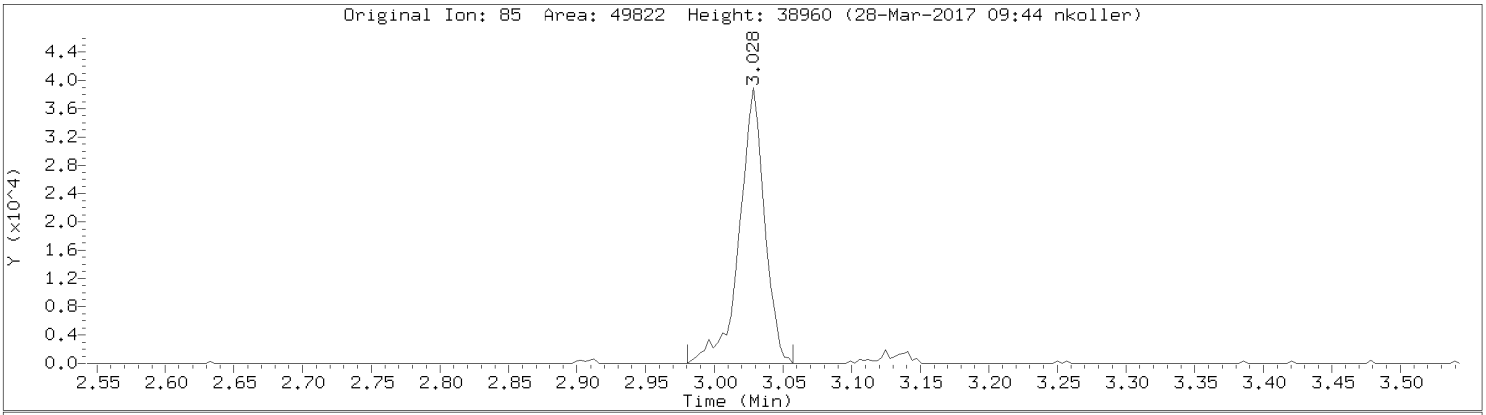


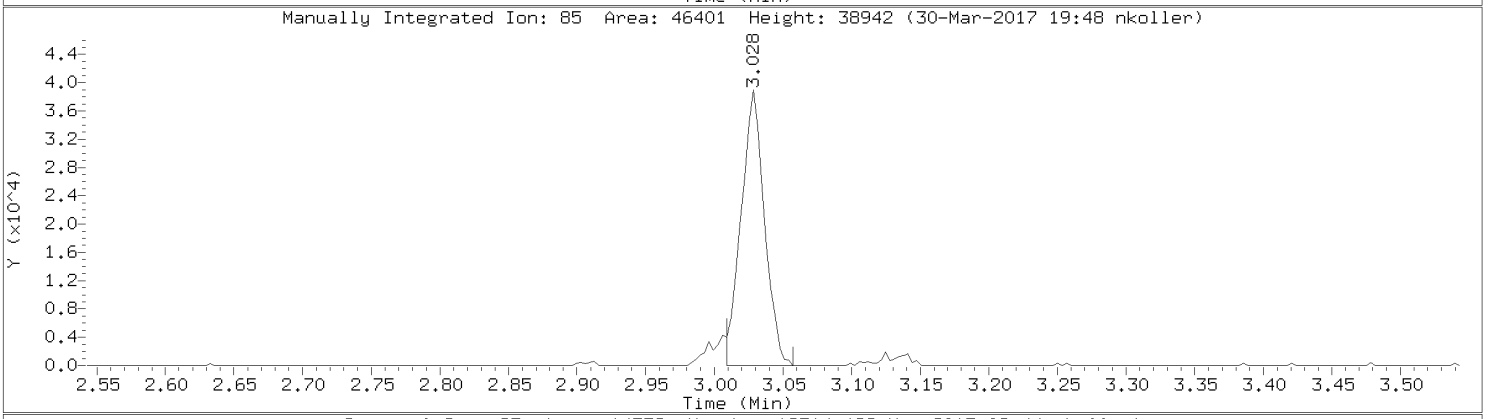


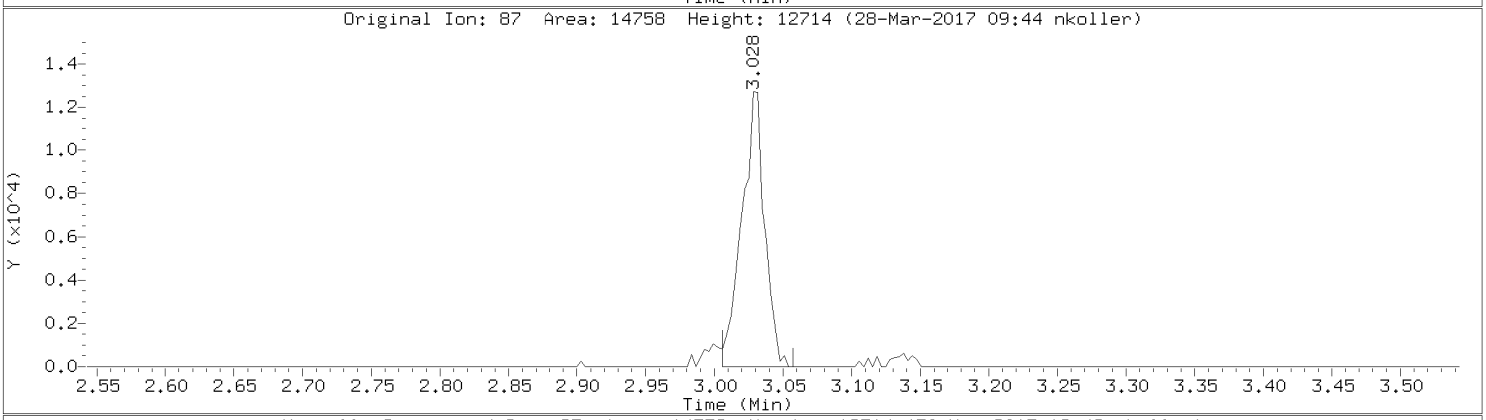


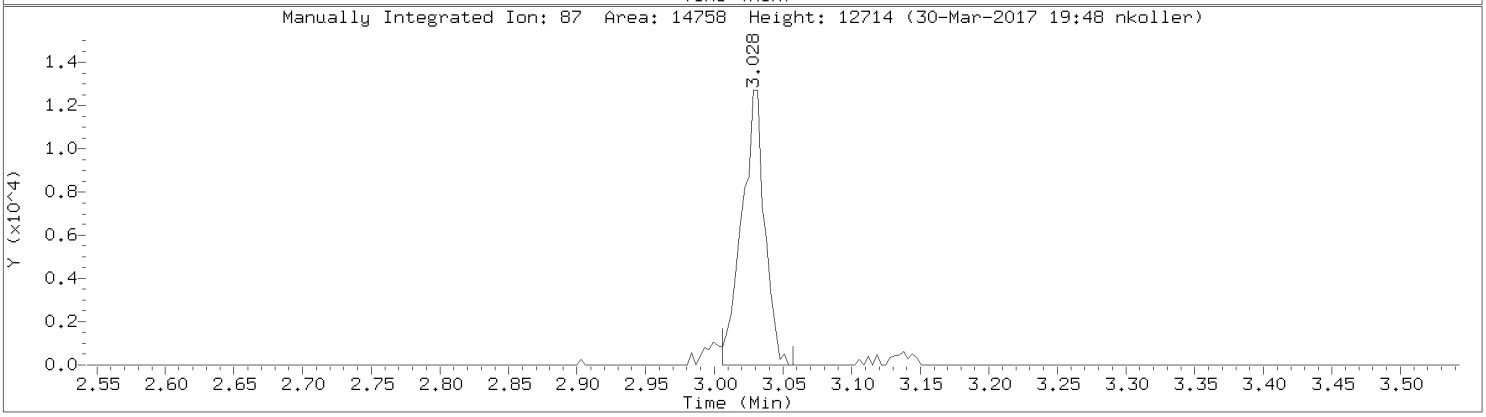
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08636.D
Injection Date: 28-MAR-2017 02:50
Instrument: 10airB.i
Lab Sample ID: 10381335001

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



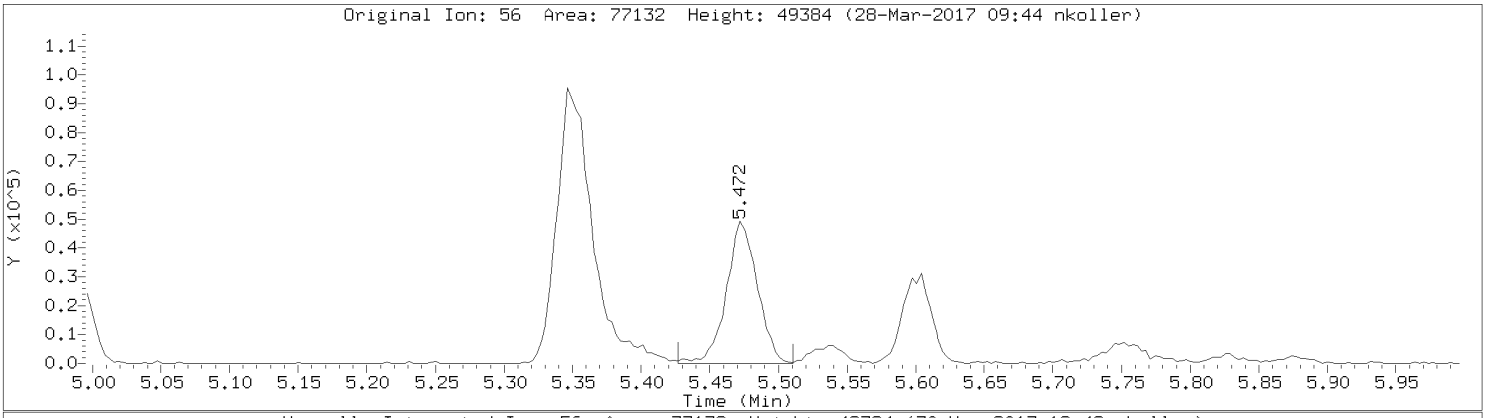


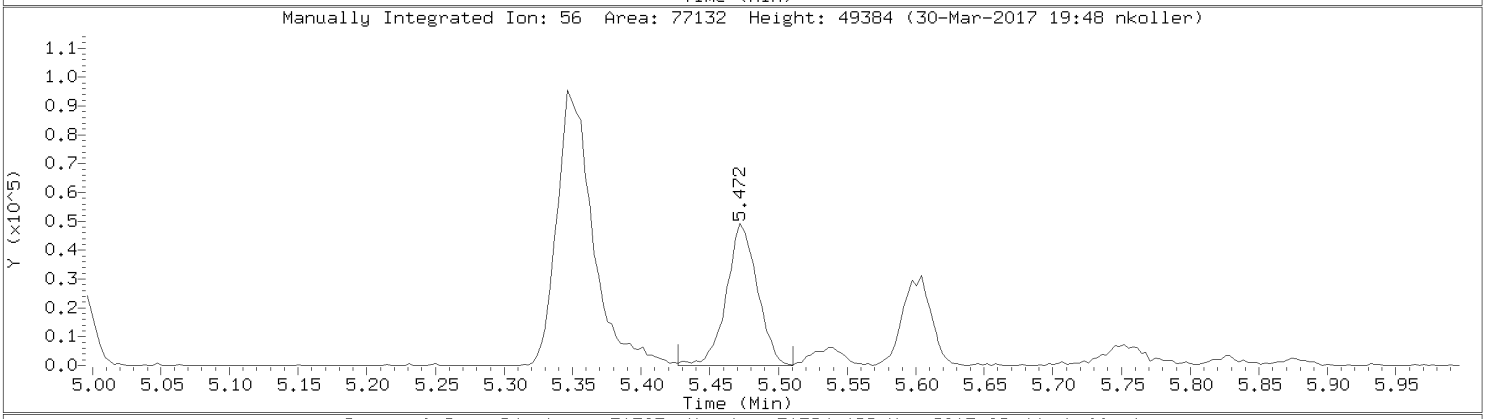


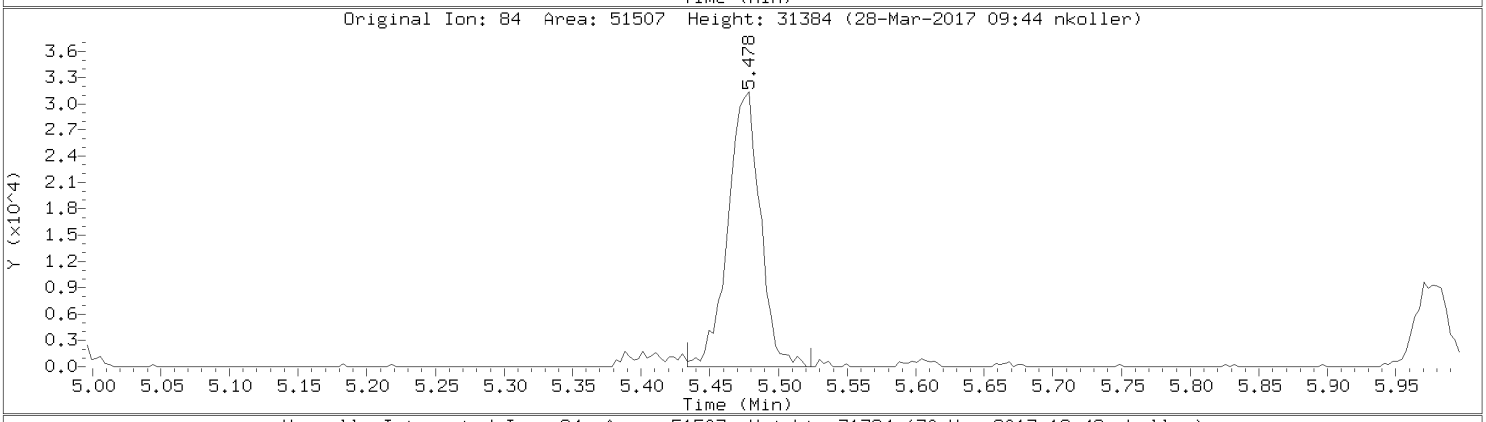


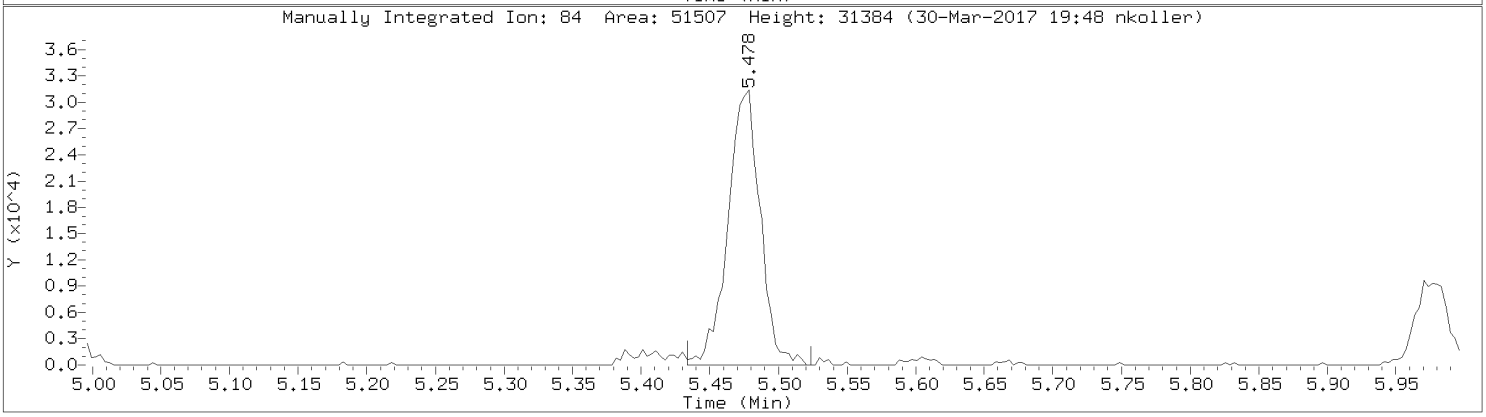
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08636.D
Injection Date: 28-MAR-2017 02:50
Instrument: 10airB.i
Lab Sample ID: 10381335001

Compound: Cyclohexane
CAS Number: 110-82-7

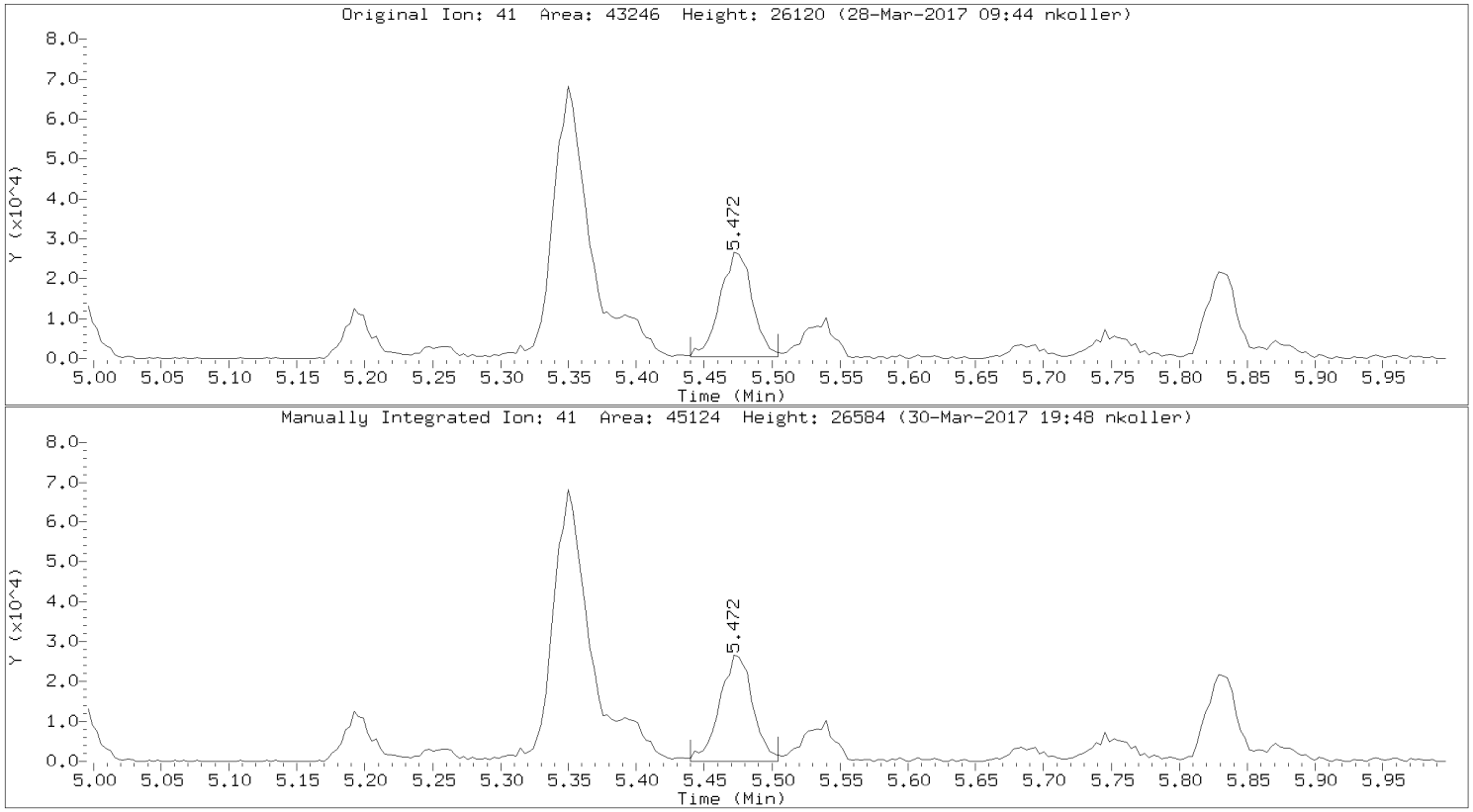






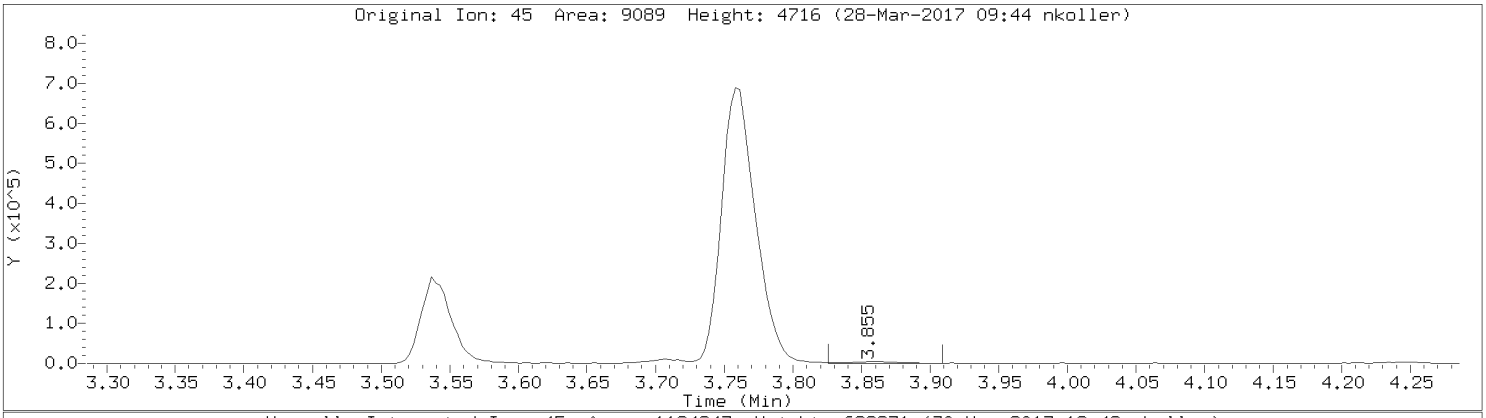


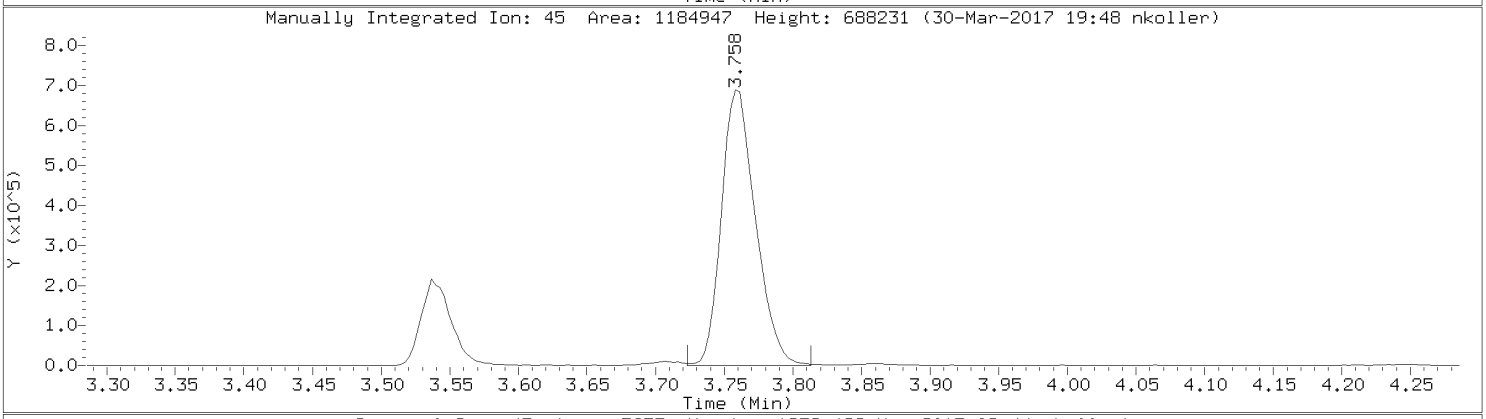
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08636.D
Injection Date: 28-MAR-2017 02:50
Instrument: 10airB.i
Lab Sample ID: 10381335001

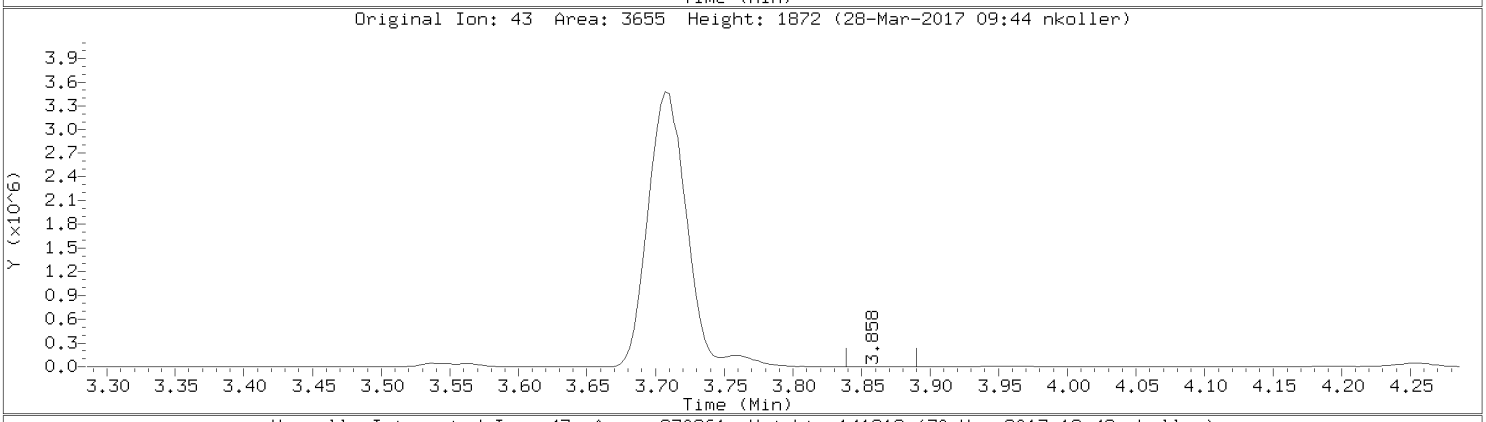


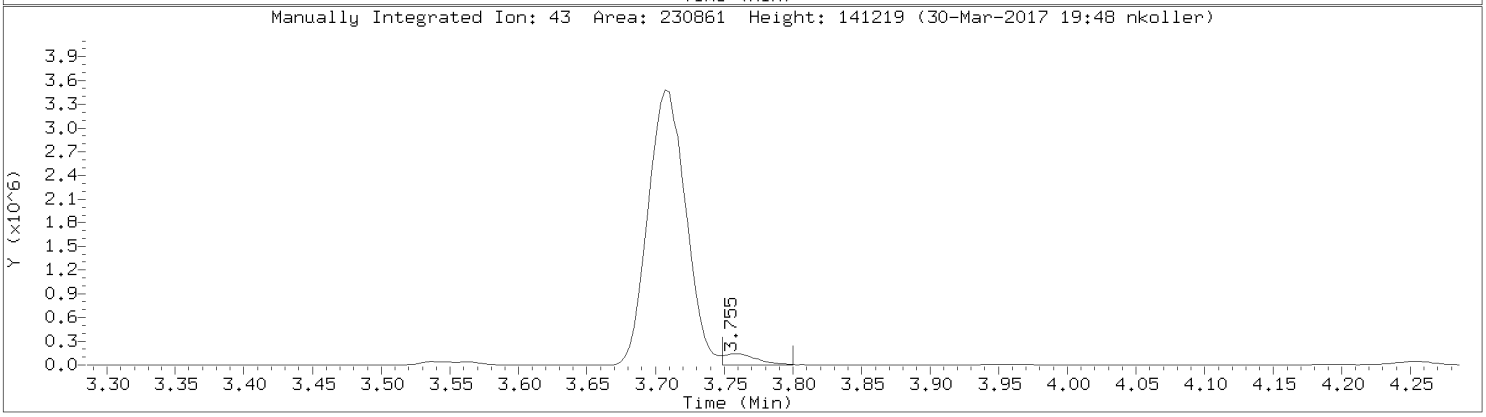
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08636.D
Injection Date: 28-MAR-2017 02:50
Instrument: 10airB.i
Lab Sample ID: 10381335001

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



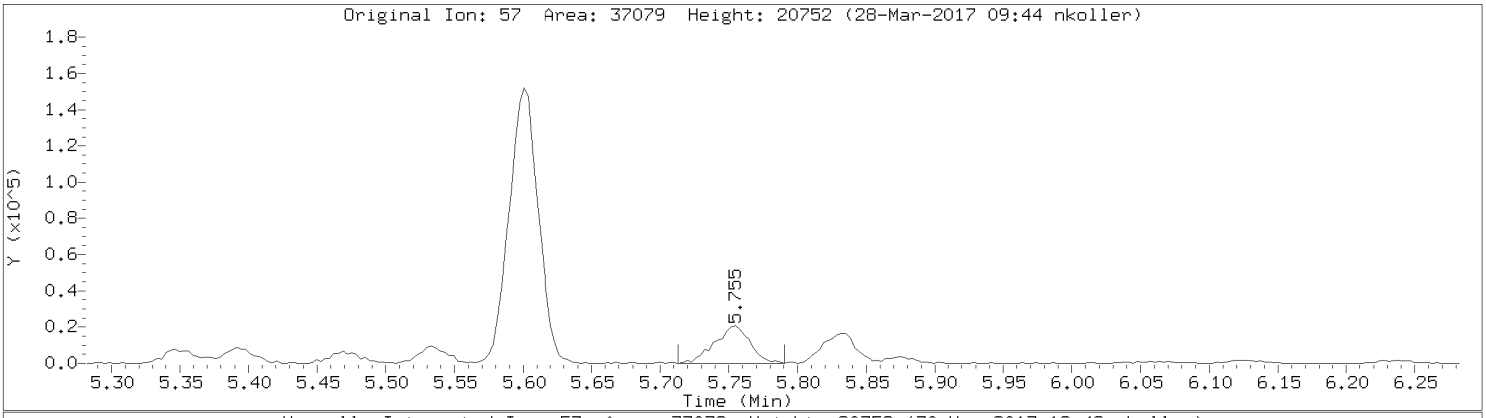


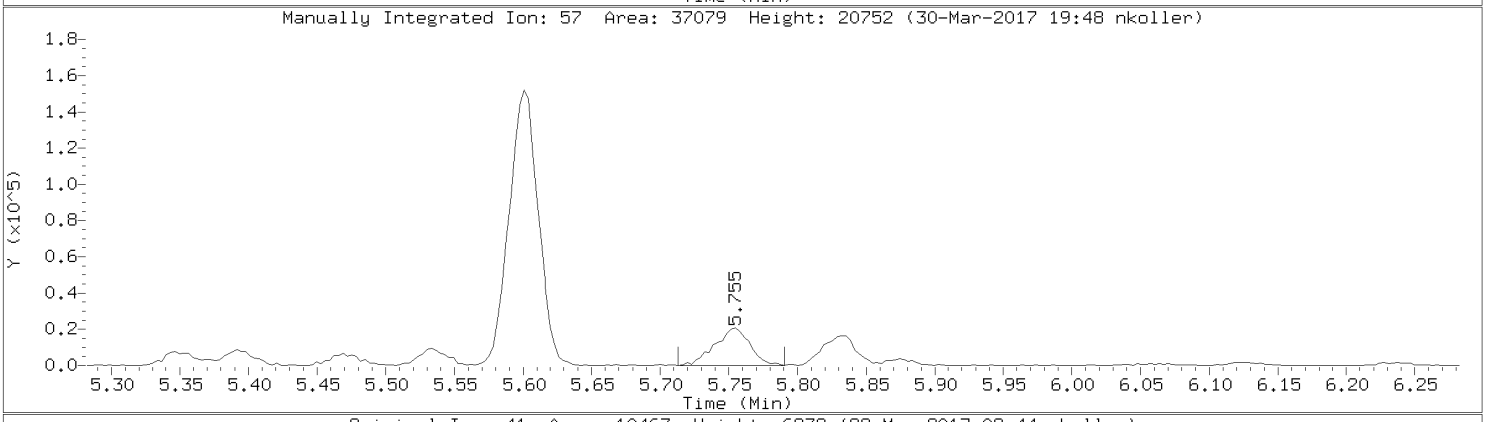


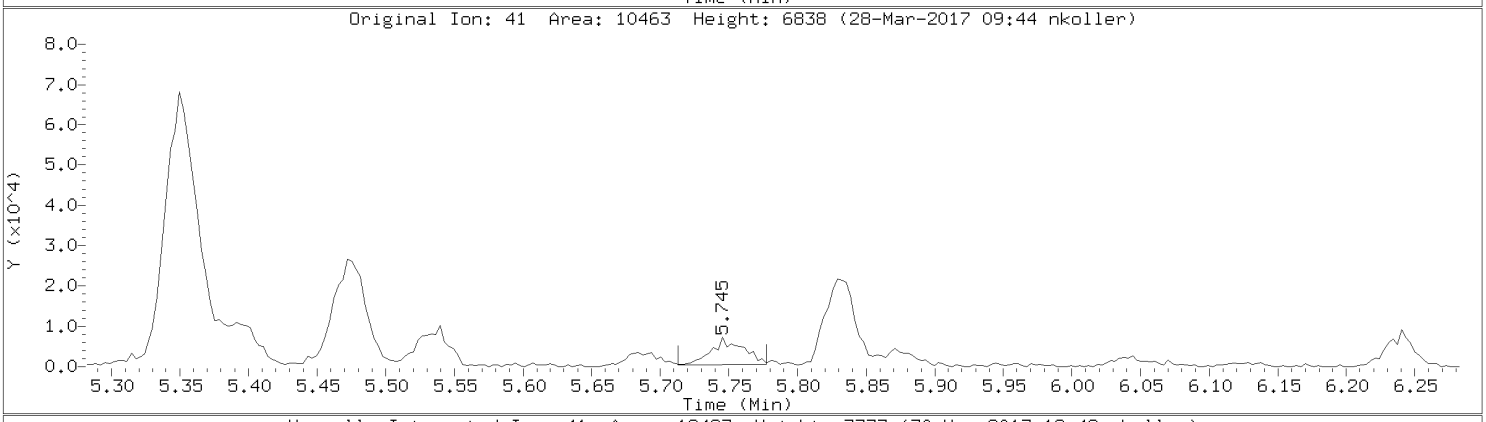


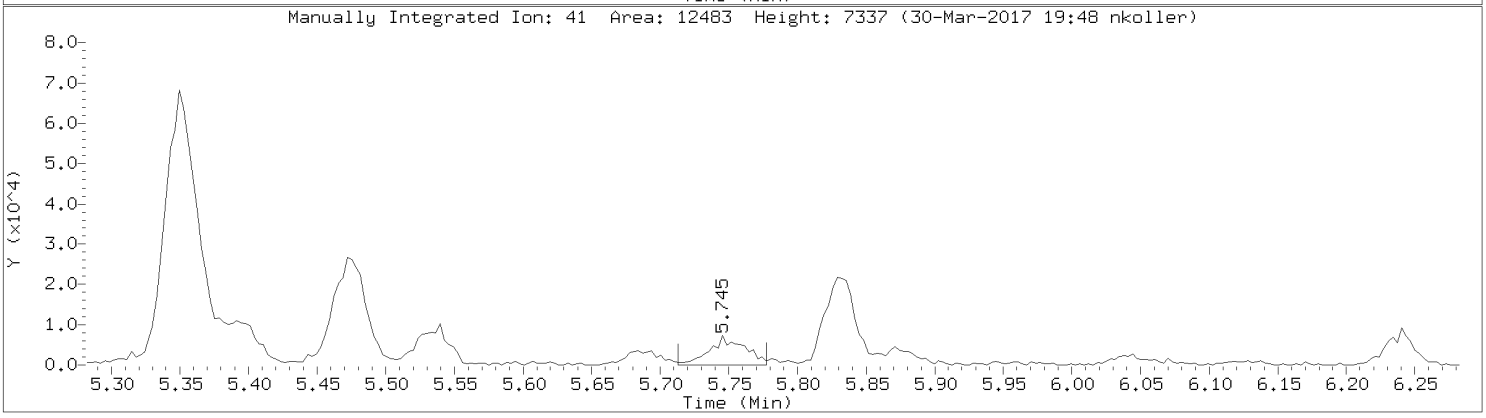
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08636.D
Injection Date: 28-MAR-2017 02:50
Instrument: 10airB.i
Lab Sample ID: 10381335001

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

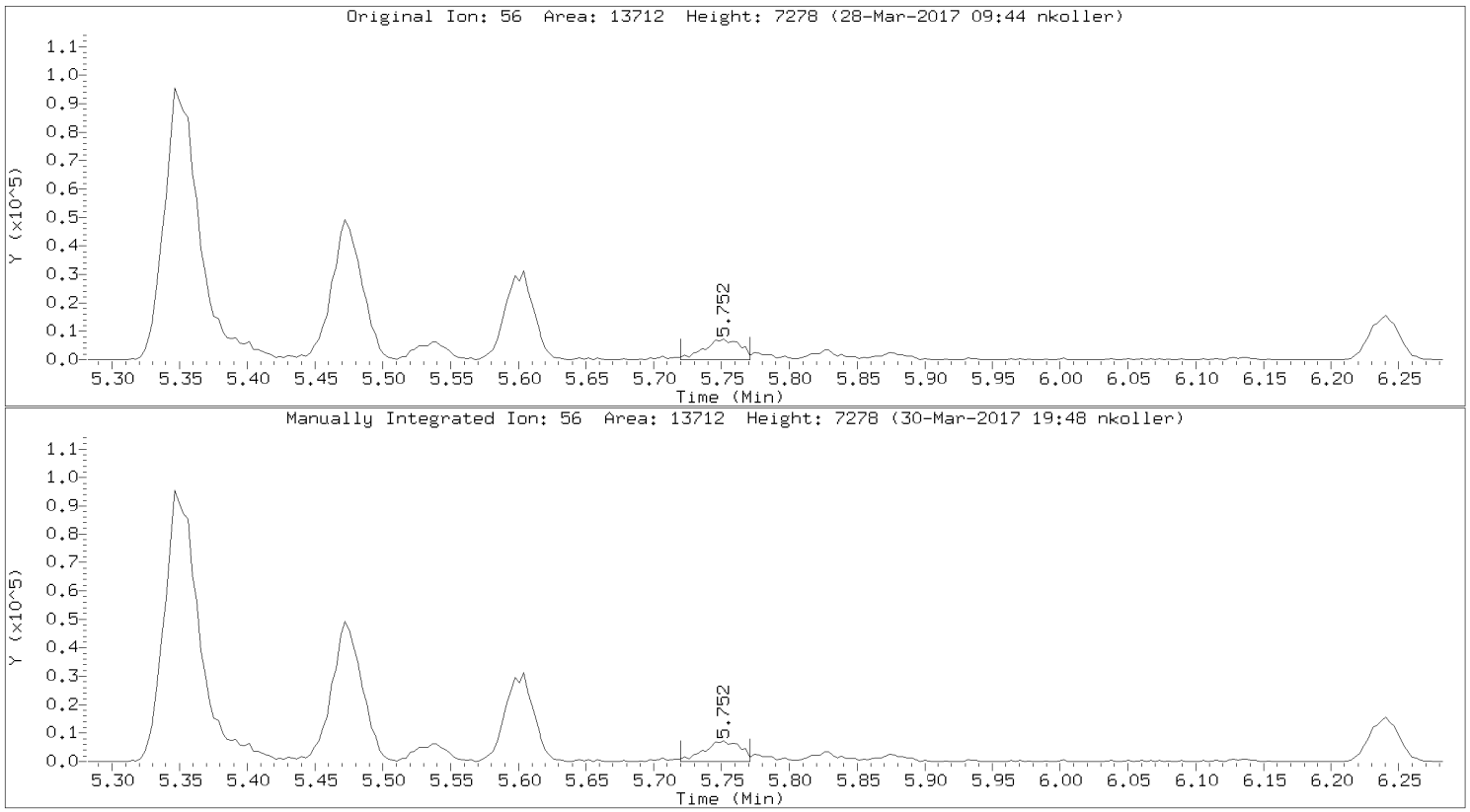








Data File: \\192.168.10.12\chem\10airB.i\032717.b/08636.D
Injection Date: 28-MAR-2017 02:50
Instrument: 10airB.i
Lab Sample ID: 10381335001



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-102_4.5_20170306 **Lab ID: 10381335001** Collected: 03/06/17 14:10 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**69.0**	ug/m3	4.4	0.42	1.75		03/28/17 02:50	67-63-0	L1
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/28/17 02:50	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/28/17 02:50	79-34-5	
Tetrachloroethene	**88.3**	ug/m3	1.2	0.49	1.75		03/28/17 02:50	127-18-4	
Toluene	**3.1**	ug/m3	1.3	0.27	1.75		03/28/17 02:50	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/28/17 02:50	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/28/17 02:50	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/28/17 02:50	79-00-5	
Trichloroethene	**113**	ug/m3	0.96	0.48	1.75		03/28/17 02:50	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.0	0.23	1.75		03/28/17 02:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.3J**	ug/m3	2.8	0.53	1.75		03/28/17 02:50	76-13-1	
1,2,4-Trimethylbenzene	**0.92J**	ug/m3	1.7	0.22	1.75		03/28/17 02:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/28/17 02:50	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/28/17 02:50	75-01-4	
m&p-Xylene	**10.1**	ug/m3	3.1	1.4	1.75		03/28/17 02:50	179601-23-1	
o-Xylene	**2.8**	ug/m3	1.5	0.61	1.75		03/28/17 02:50	95-47-6	

Sample: L15-VP-7_30_20170306 **Lab ID: 10381335002** Collected: 03/06/17 14:08 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**2.9J**	ug/m3	4.4	1.5	1.83		03/28/17 03:22	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/28/17 03:22	107-05-1	
Benzene	**14.5**	ug/m3	0.59	0.22	1.83		03/28/17 03:22	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/28/17 03:22	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/28/17 03:22	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/28/17 03:22	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/28/17 03:22	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/28/17 03:22	78-93-3	
Carbon disulfide	**0.81J**	ug/m3	1.2	0.18	1.83		03/28/17 03:22	75-15-0	
Carbon tetrachloride	**6.6**	ug/m3	1.2	0.35	1.83		03/28/17 03:22	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/28/17 03:22	108-90-7	
Chlorodifluoromethane	**75.3**	ug/m3	1.3	0.51	1.83		03/28/17 03:22	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/28/17 03:22	75-00-3	
Chloroform	**389**	ug/m3	0.91	0.35	1.83		03/28/17 03:22	67-66-3	
Chloroform	**2650J**	ug/m3	5070	1940	10222.59		03/30/17 04:09	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/28/17 03:22	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/28/17 03:22	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/28/17 03:22	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/28/17 03:22	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/28/17 03:22	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/28/17 03:22	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: L15-VP-7_30_20170306 **Lab ID: 10381335002** Collected: 03/06/17 14:08 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/28/17 03:22	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/28/17 03:22	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/28/17 03:22	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.8	0.88	1.83		03/28/17 03:22	75-71-8	
1,1-Dichloroethane	**34.2**	ug/m3	1.5	0.29	1.83		03/28/17 03:22	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/28/17 03:22	107-06-2	
1,1-Dichloroethene	**7.3**	ug/m3	1.5	0.44	1.83		03/28/17 03:22	75-35-4	
cis-1,2-Dichloroethene	**3150**	ug/m3	1.5	0.45	1.83		03/28/17 03:22	156-59-2	
cis-1,2-Dichloroethene	**59400**	ug/m3	8280	2510	10222.59		03/30/17 04:09	156-59-2	A3
trans-1,2-Dichloroethene	**129**	ug/m3	1.5	0.70	1.83		03/28/17 03:22	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/28/17 03:22	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/28/17 03:22	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	4.2	0.48	1.83		03/28/17 03:22	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/28/17 03:22	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/28/17 03:22	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/28/17 03:22	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/28/17 03:22	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/28/17 03:22	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/28/17 03:22	87-68-3	
n-Hexane	**4.5**	ug/m3	1.3	0.65	1.83		03/28/17 03:22	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/28/17 03:22	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/28/17 03:22	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/28/17 03:22	79-20-9	
Methylcyclohexane	**1.5J**	ug/m3	1.5	0.44	1.83		03/28/17 03:22	108-87-2	
Methylene Chloride	**3.7J**	ug/m3	6.5	0.99	1.83		03/28/17 03:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/28/17 03:22	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/28/17 03:22	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/28/17 03:22	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/28/17 03:22	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/28/17 03:22	79-34-5	
Tetrachloroethene	**9080**	ug/m3	1.3	0.51	1.83		03/28/17 03:22	127-18-4	
Tetrachloroethene	**430000**	ug/m3	7040	2840	10222.59		03/30/17 04:09	127-18-4	
Toluene	**4.0**	ug/m3	1.4	0.28	1.83		03/28/17 03:22	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/28/17 03:22	120-82-1	
1,1,1-Trichloroethane	**1.3J**	ug/m3	2.0	0.45	1.83		03/28/17 03:22	71-55-6	
1,1,2-Trichloroethane	**2.9**	ug/m3	1.0	0.45	1.83		03/28/17 03:22	79-00-5	
Trichloroethene	**6930**	ug/m3	1.0	0.51	1.83		03/28/17 03:22	79-01-6	
Trichloroethene	**650000**	ug/m3	5620	2820	10222.59		03/30/17 04:09	79-01-6	
Trichlorofluoromethane	**18.7**	ug/m3	2.1	0.24	1.83		03/28/17 03:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	**457**	ug/m3	2.9	0.55	1.83		03/28/17 03:22	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/28/17 03:22	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/28/17 03:22	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/28/17 03:22	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/28/17 03:22	179601-23-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D
Report Date: 30-Mar-2017 19:49

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08637.D
Lab Smp Id: 10381335002
Inj Date : 28-MAR-2017 03:22
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28019
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 30-Mar-2017 19:28 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 37
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.034	3.005	(0.537)	168089	11.4463	20.9(QMH)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.070	3.044	(0.543)	39750	0.25158	0.460(H)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.561	3.558	(0.630)	16096	0.84574	1.55(M)	
13	Vinyl Bromide	106	Compound Not Detected.						(D)
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.674	3.680	(0.650)	197815	1.78859	3.27	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.738	3.735	(0.661)	49780	0.66382	1.21(Q)	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.909	3.918	(0.691)	77160	0.99101	1.81	
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.970	3.957	(0.702)	2845042	32.0344	58.6(A)	
23	Methyl Acetate	43	Compound Not Detected.						(D)
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D
Report Date: 30-Mar-2017 19:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	4.005	4.015	(0.708)	32950	0.57317	1.05(H)	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	4.115	4.134	(0.728)	14130	0.13929	0.255	
	28 trans-1,2-dichloroethene	96	4.275	4.285	(0.756)	757989	17.4579	31.9	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	4.430	4.423	(0.783)	383995	4.54759	8.32	
$	32 Hexane-d14(S)	66	4.497	4.494	(0.795)	996120	9.25127	9.25	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.594	4.590	(0.812)	58085	0.68407	1.25(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						(D)
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.742	4.738	(0.839)	20345035	427.321	782(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	4.851	4.854	(0.858)	4043359	42.8114	78.3(A)	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.250	5.243	(0.928)	15564	0.12689	0.232	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	5.500	5.478	(0.973)	404239	2.44165	4.47	
	44 Carbon tetrachloride	117	5.504	5.497	(0.973)	66484	0.56056	1.03	
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.655	5.622	(1.000)	2870313	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.015	5.999	(1.064)	60218071	693.073	1270(AQ)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	6.487	6.442	(1.147)	9788	0.19984	0.366(H)	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.121	7.082	(1.259)	2129453	8.80007	8.80	
	60 1,1,2-Trichloroethane	97	7.179	7.153	(1.270)	19640	0.28443	0.521(MH)	
	61 Toluene	91	7.198	7.163	(1.273)	116122	0.57640	1.05	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.629	7.590	(0.878)	13530	0.11947	0.219(QH)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.105	7.992	(0.933)	67905078	719.359	1320(AQM)	
*	67 Chlorobenzene - d5	117	8.690	8.648	(1.000)	1441345	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						(D)
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D
Report Date: 30-Mar-2017 19:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						(D)
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.867	11.857	(1.366)	676399	9.88552	9.89	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	11.921	11.995	(1.372)	2097	0.01123	0.0206(aQ)	
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						(D)
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.169	(1.631)	12949	0.54750	1.00	
95	Hexachlorobutadiene	225	Compound Not Detected.						(D)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D
Report Date: 30-Mar-2017 19:49

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08637.D
Lab Smp Id: 10381335002
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info: 28019

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

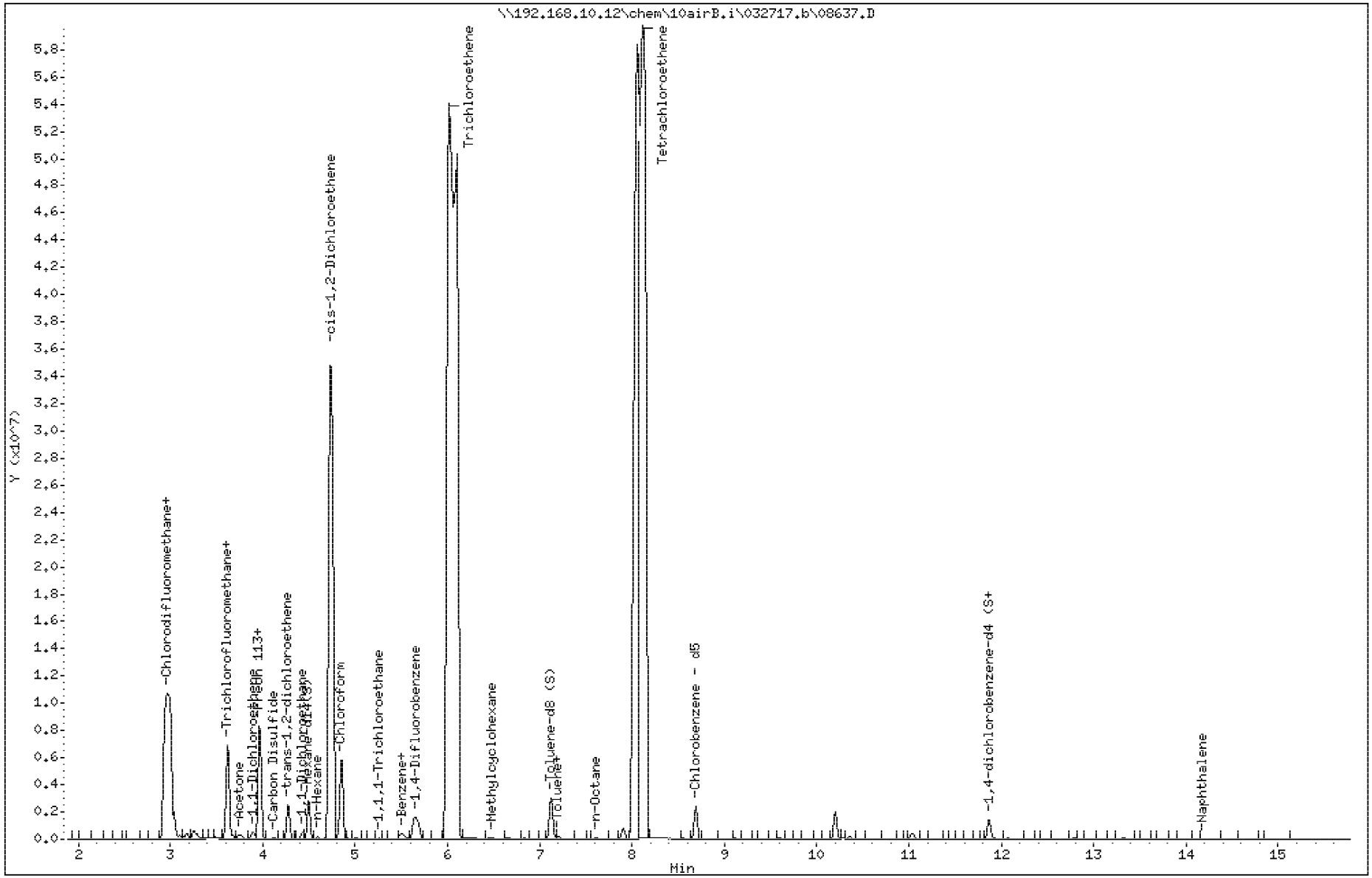
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2870313	1.36
67 Chlorobenzene - d	1804482	1082689	2526275	1441345	-20.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.66	0.80
67 Chlorobenzene - d	8.64	8.31	8.97	8.69	0.56

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D
Date : 28-MAR-2017 03:22
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

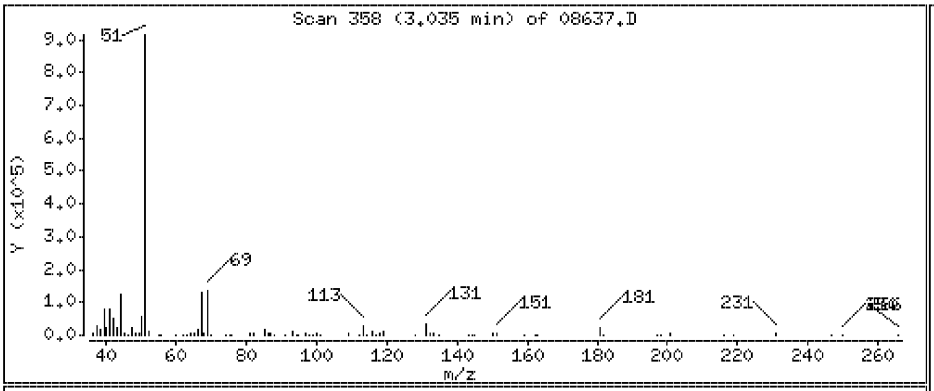
Operator: NCK

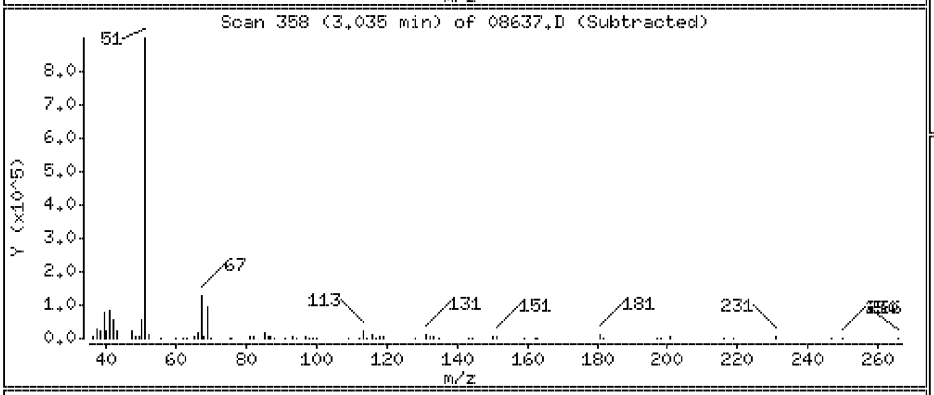
Column phase: J&W DB-5

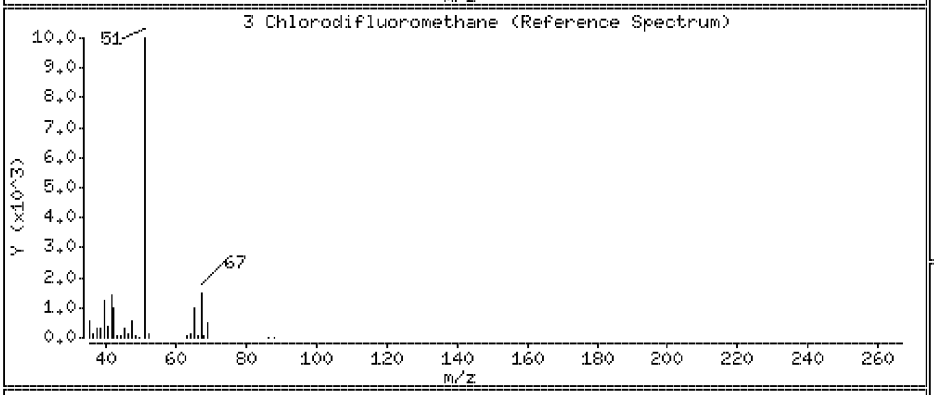
Column diameter: 0.32

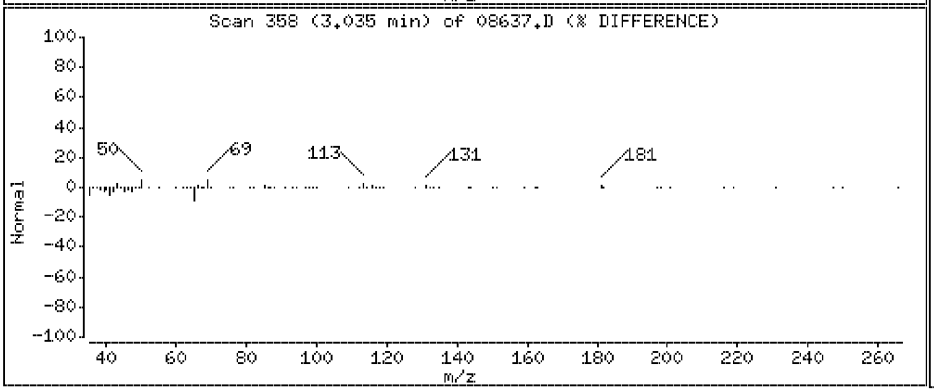
3 Chlorodifluoromethane

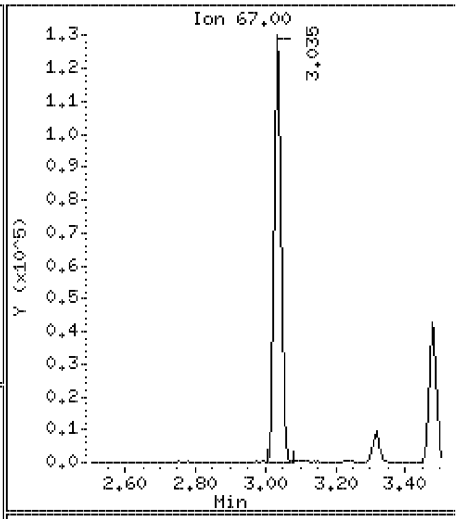
Concentration: 20.9 ppbv

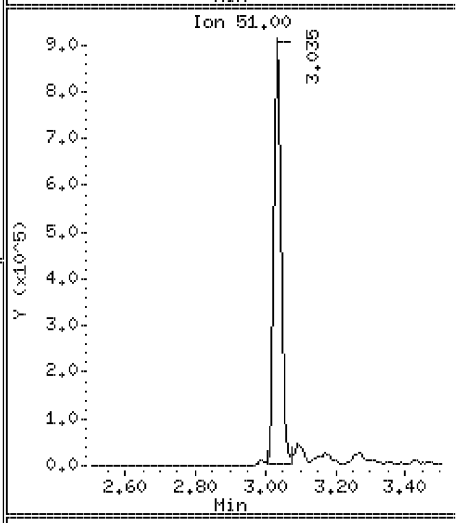


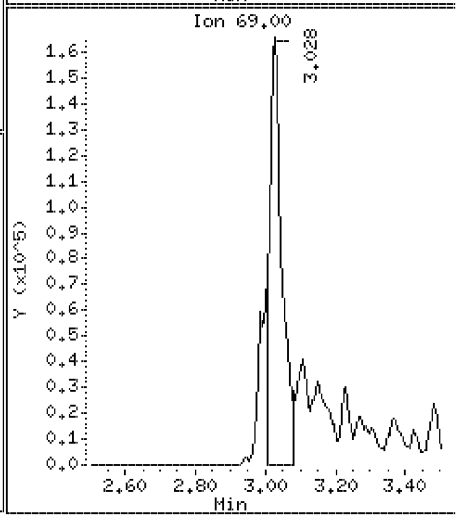












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

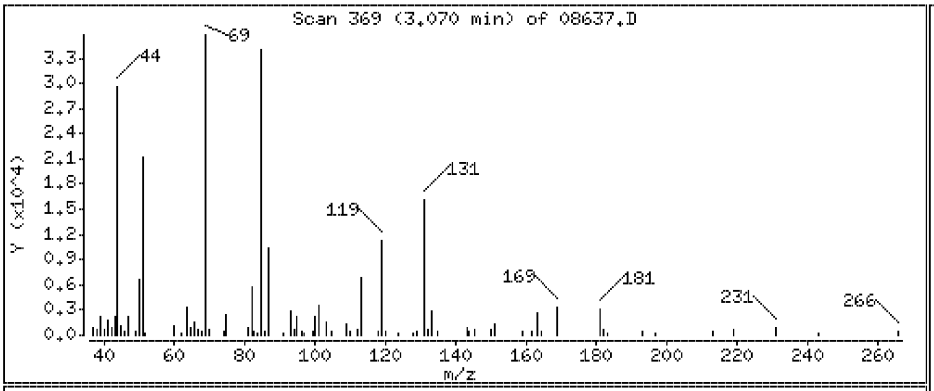
Operator: NCK

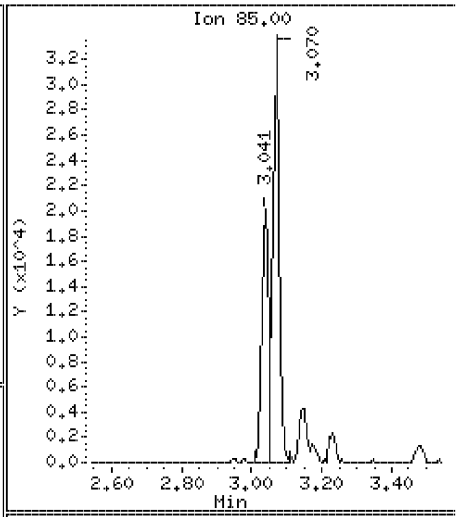
Column phase: J&W DB-5

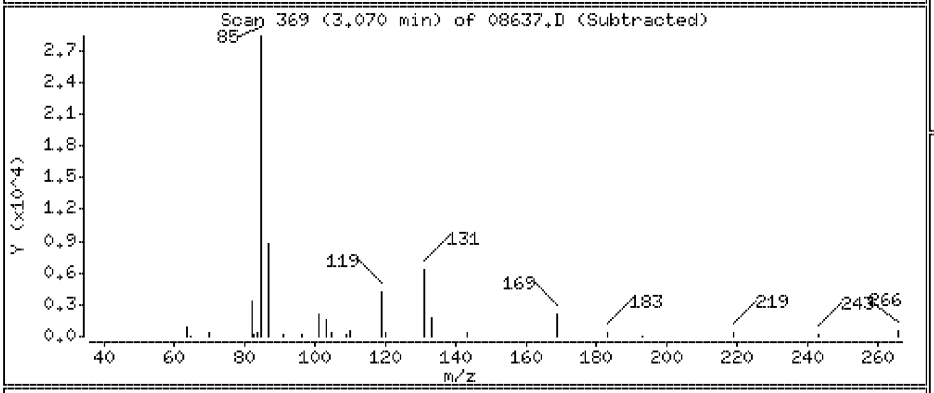
Column diameter: 0.32

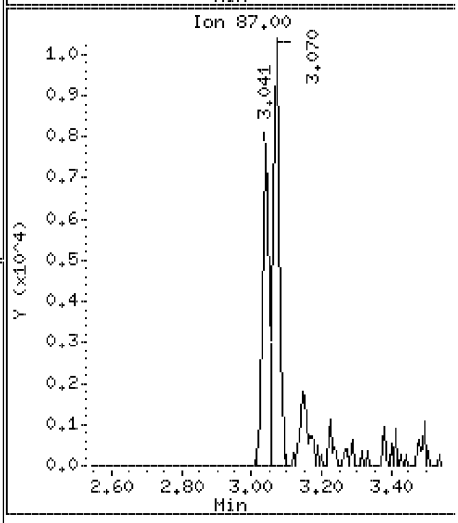
5 Dichlorodifluoromethane

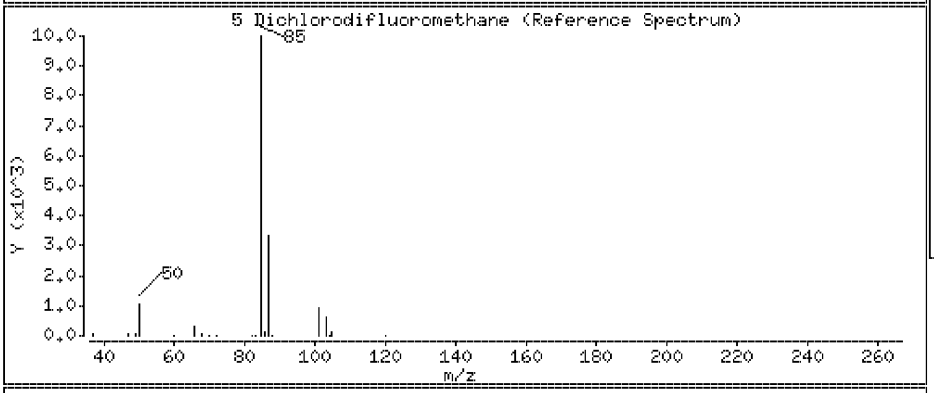
Concentration: 0.460 ppbv

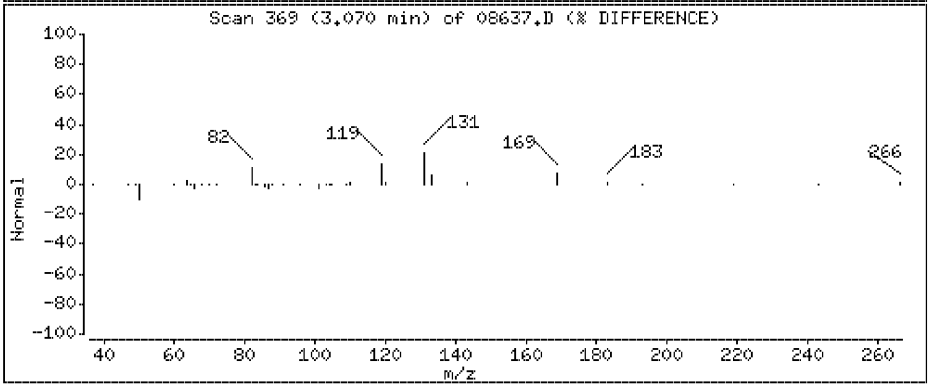












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

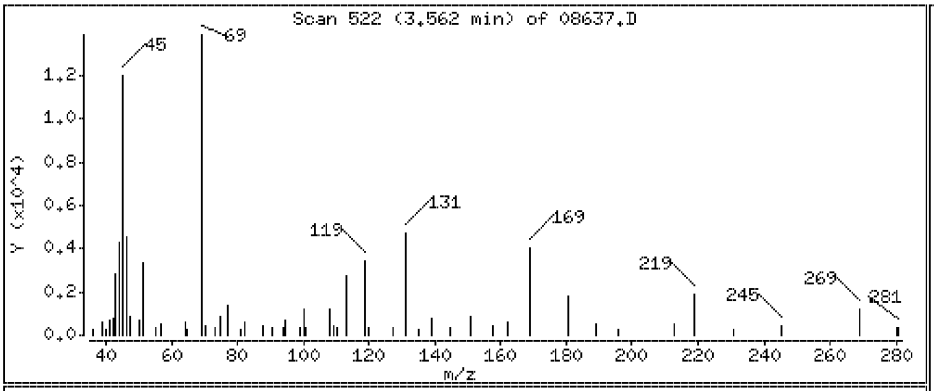
Operator: NCK

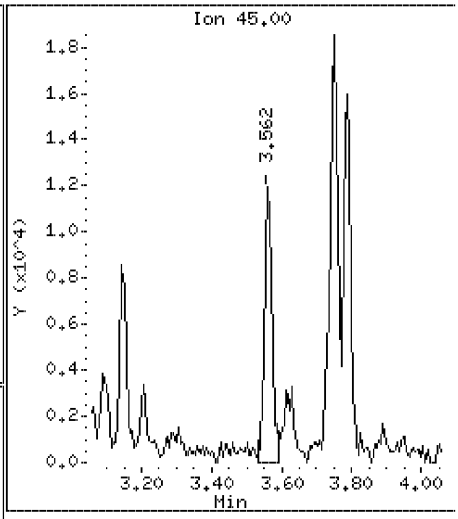
Column phase: J&W DB-5

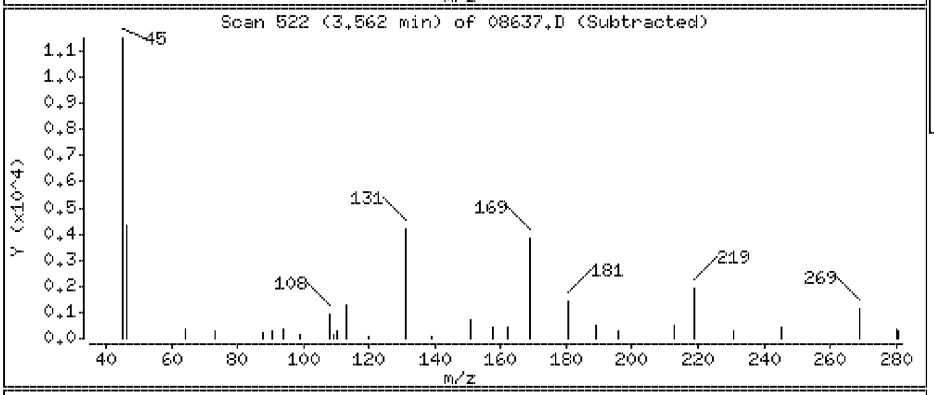
Column diameter: 0.32

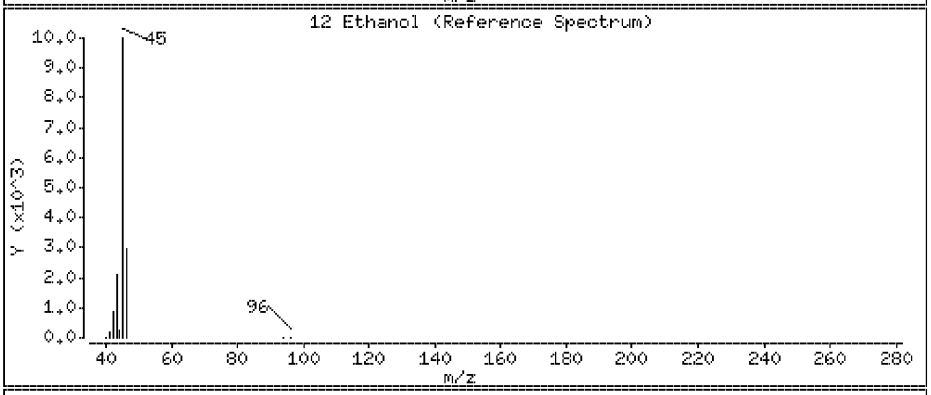
12 Ethanol

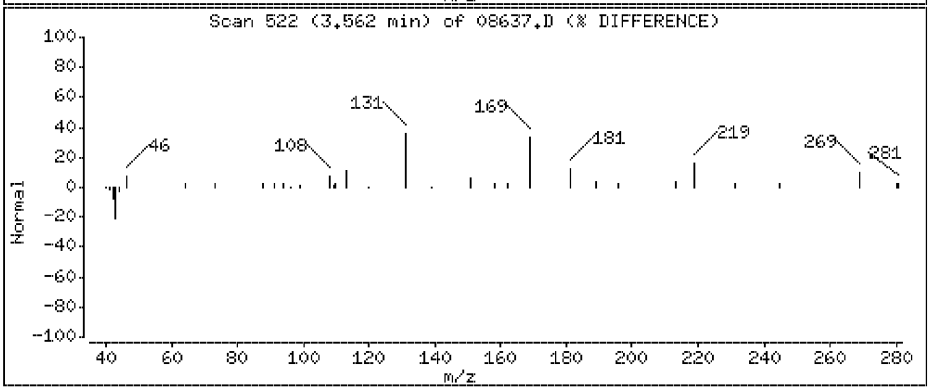
Concentration: 1.55 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

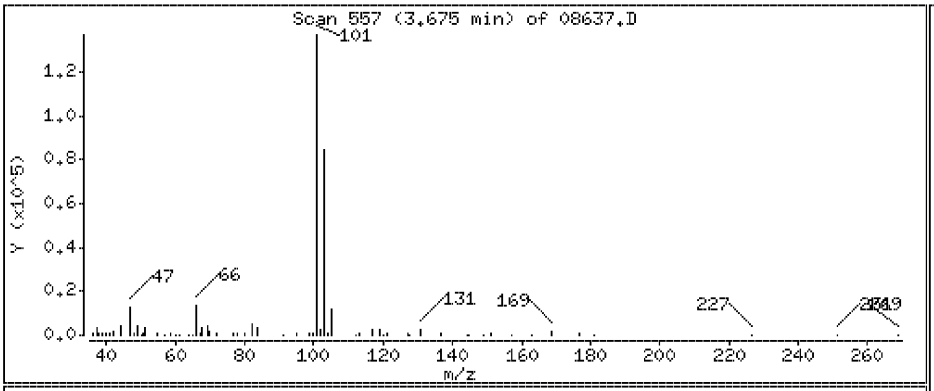
Operator: NCK

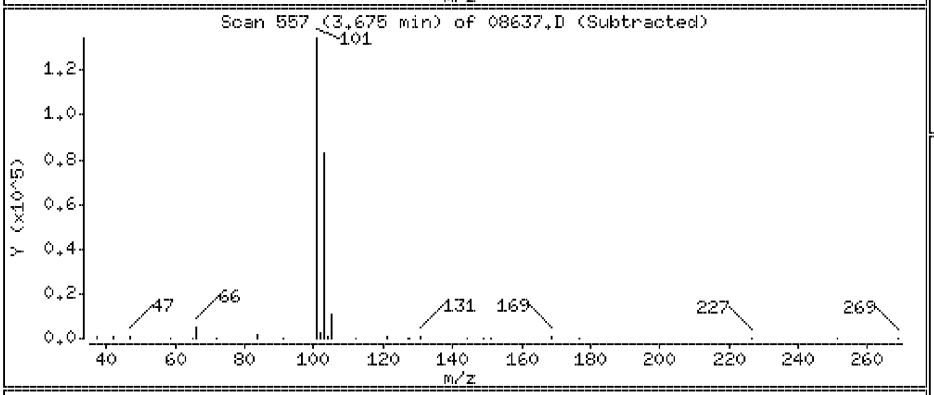
Column phase: J&W DB-5

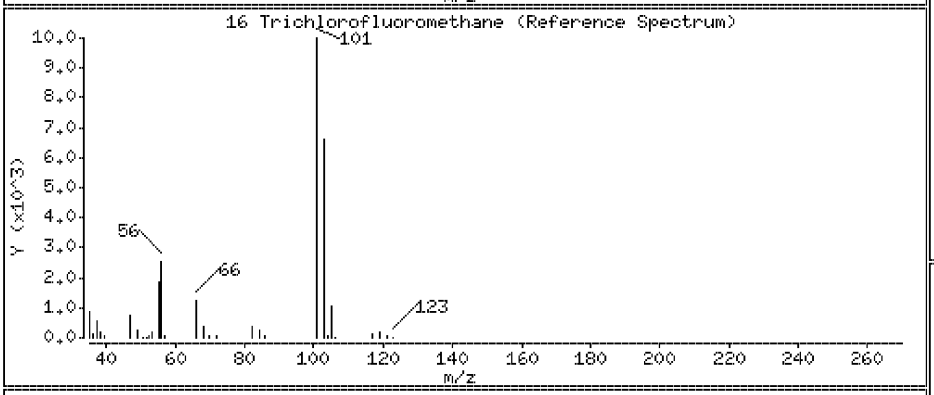
Column diameter: 0.32

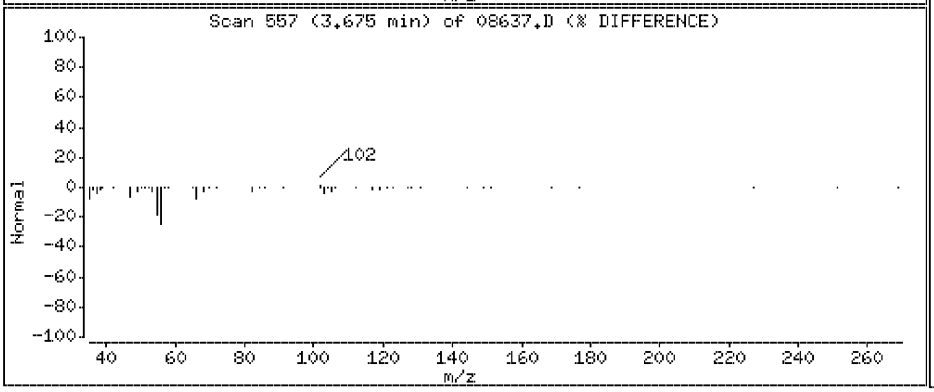
16 Trichlorofluoromethane

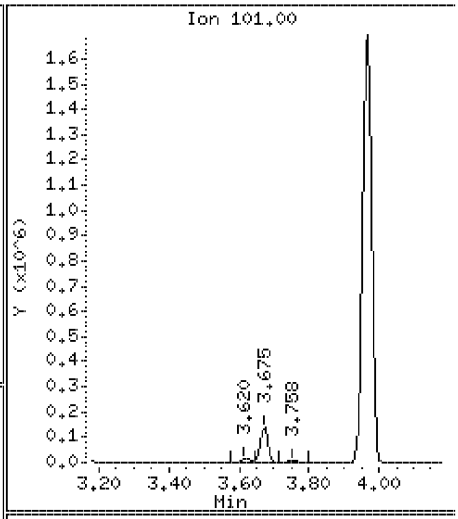
Concentration: 3.27 ppbv

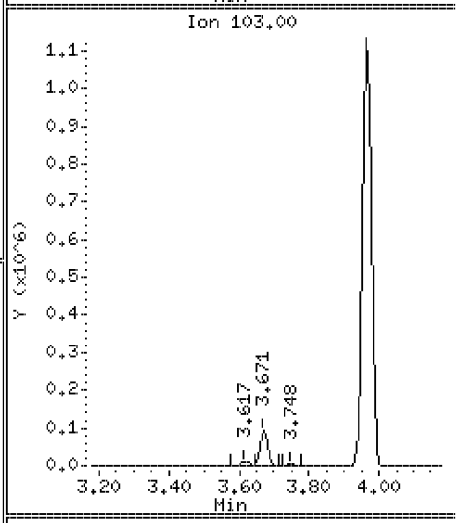


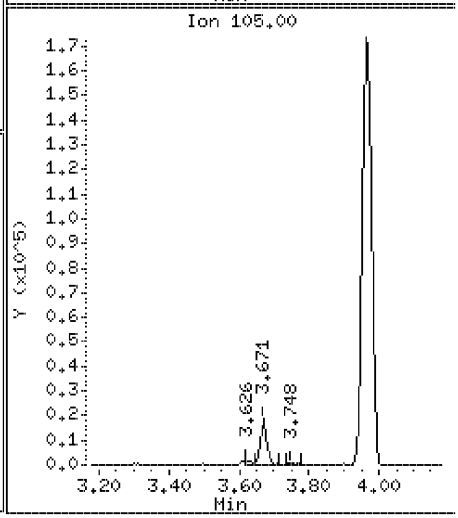












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

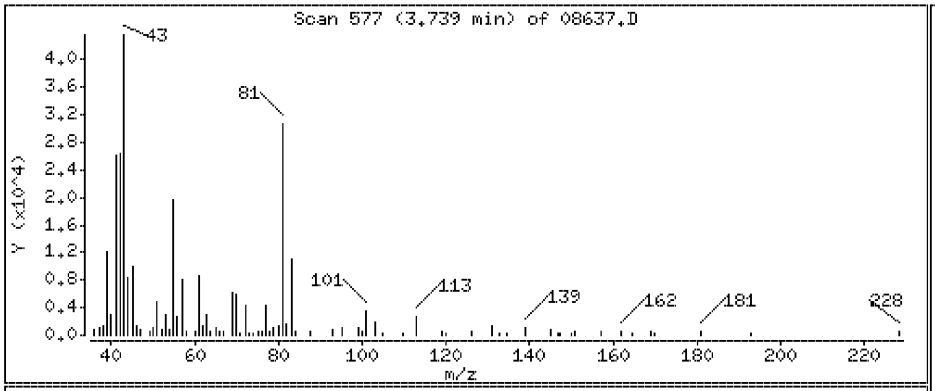
Operator: NCK

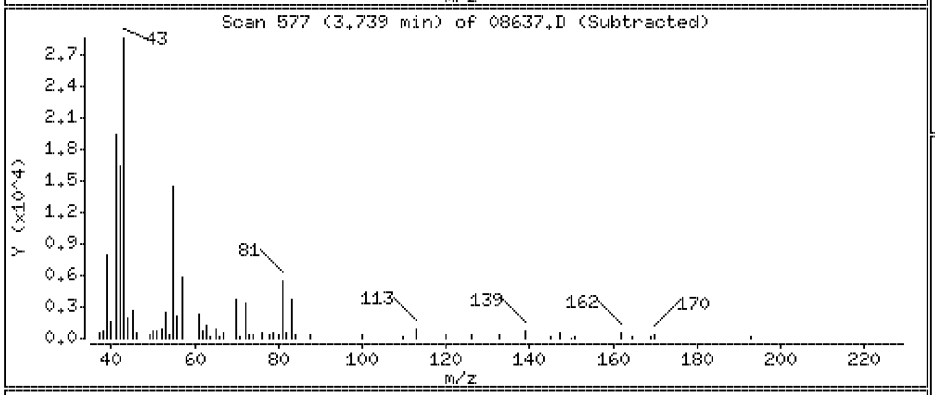
Column phase: J&W DB-5

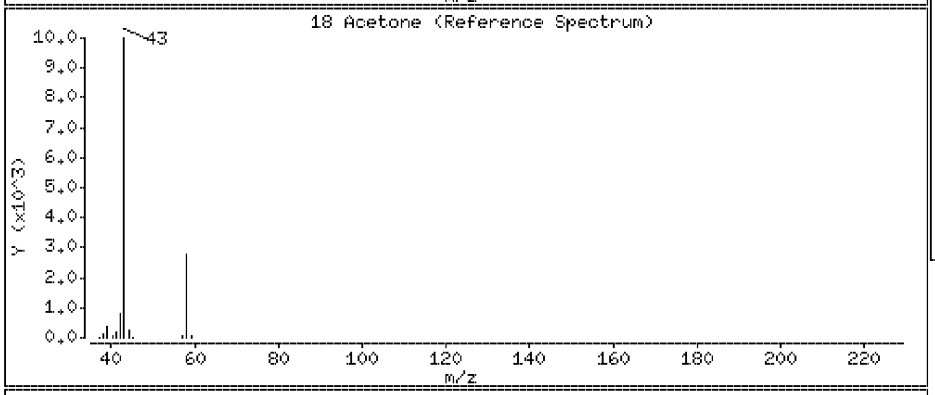
Column diameter: 0.32

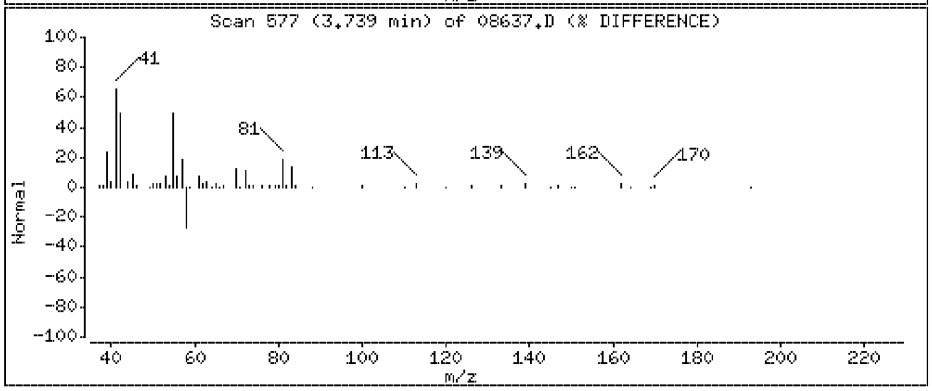
18 Acetone

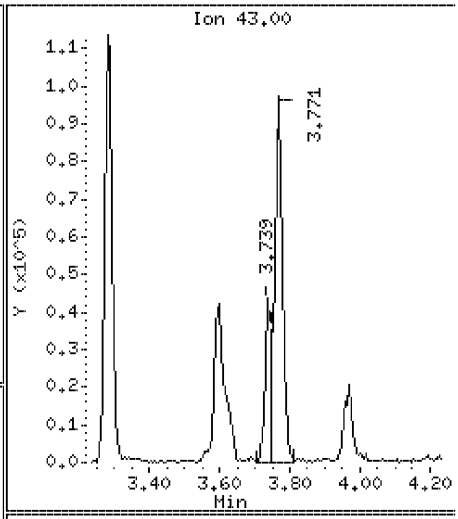
Concentration: 1.21 ppbv

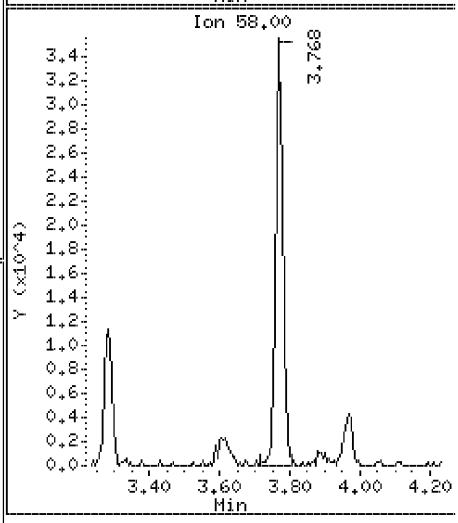












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

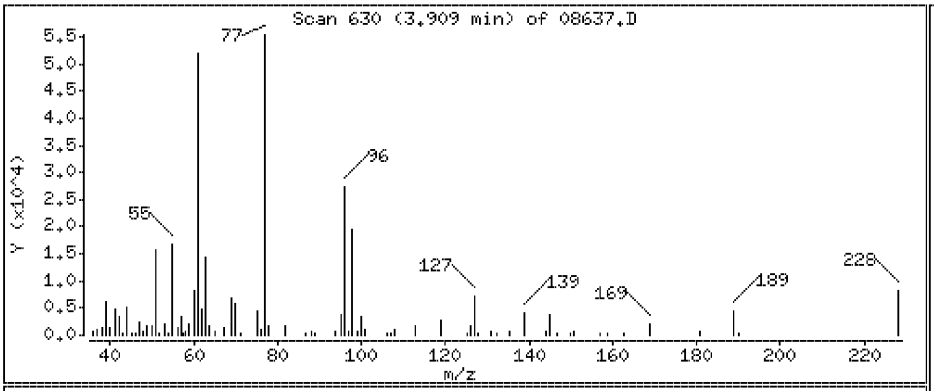
Operator: NCK

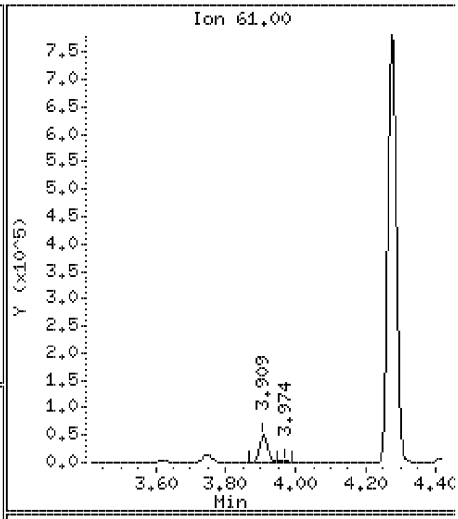
Column phase: J&W DB-5

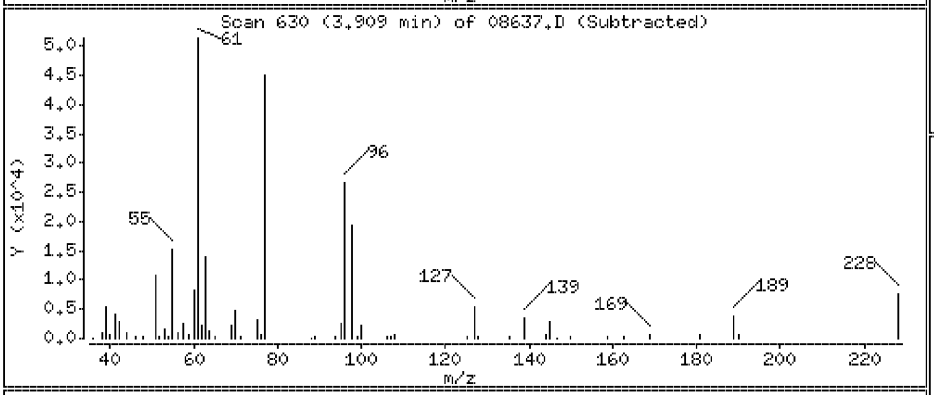
Column diameter: 0.32

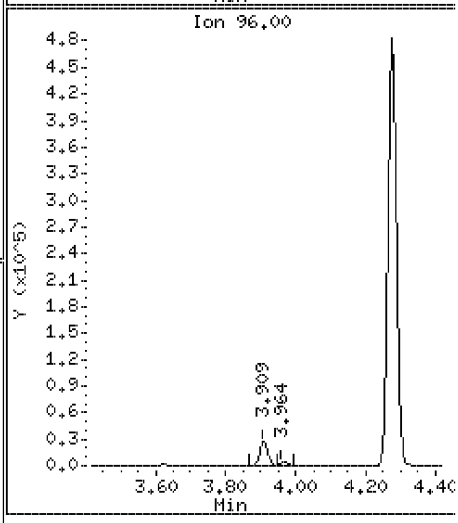
20 1,1-Dichloroethene

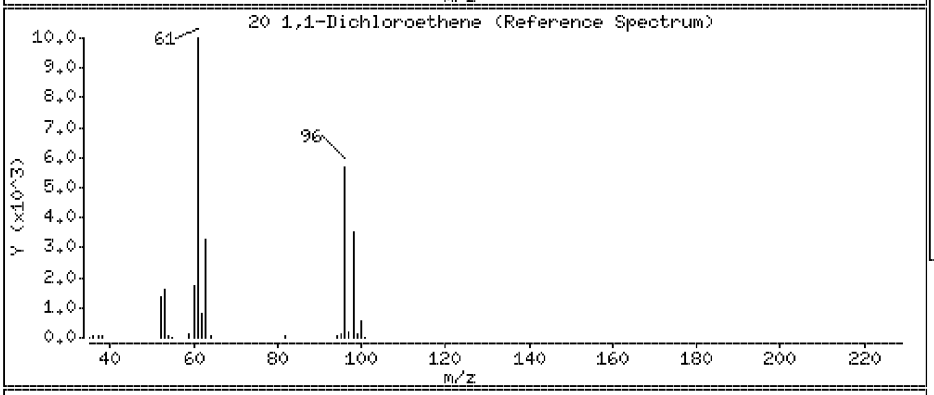
Concentration: 1.81 ppbv

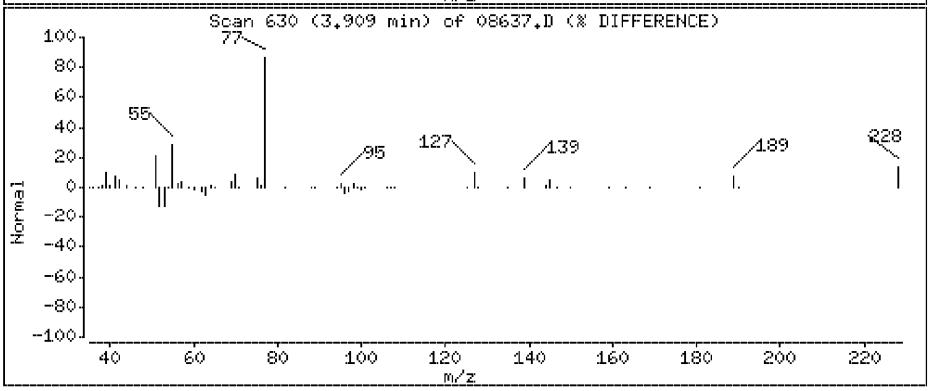












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

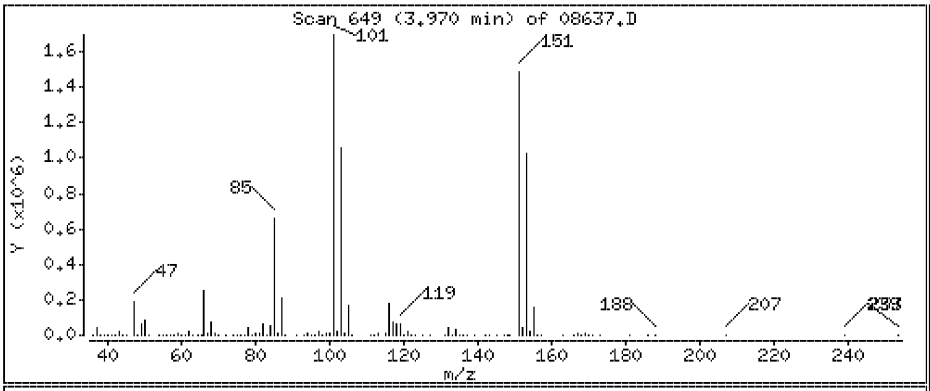
Operator: NCK

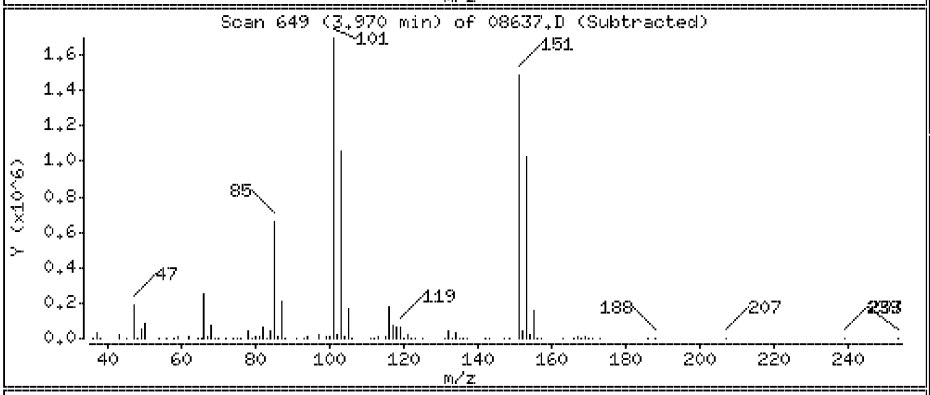
Column phase: J&W DB-5

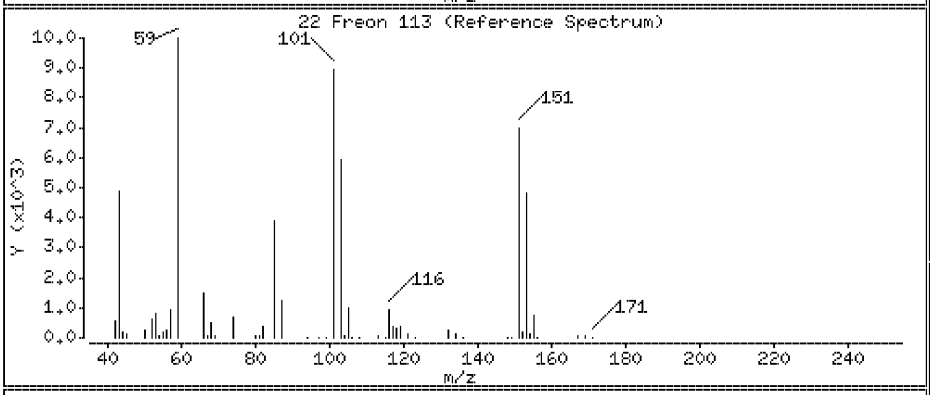
Column diameter: 0.32

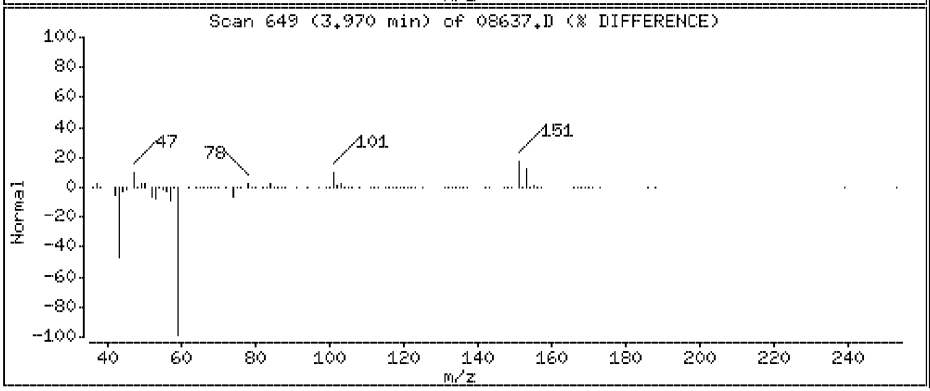
22 Freon 113

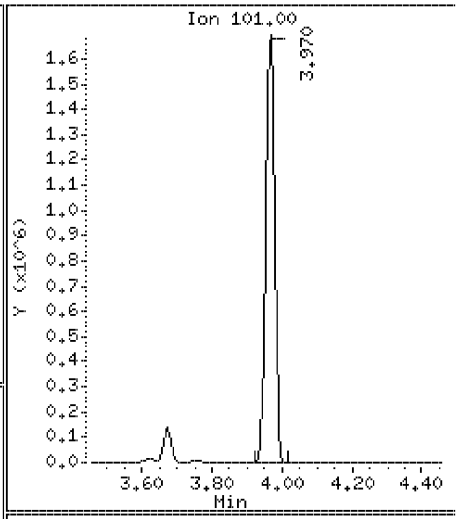
Concentration: 58.6 ppbv

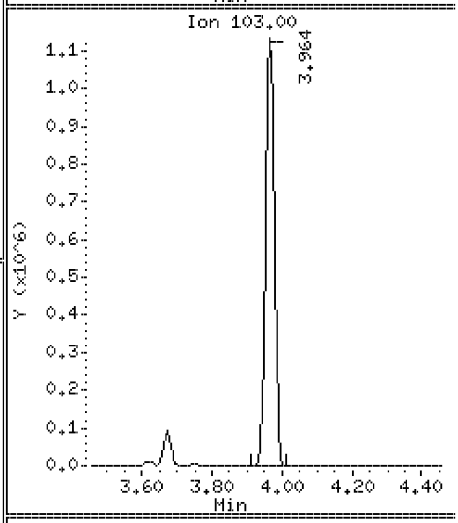


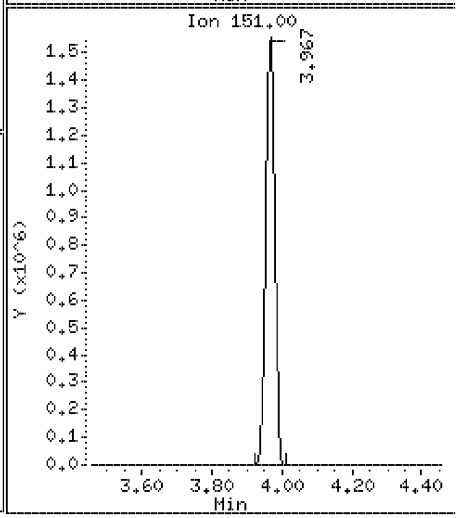












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

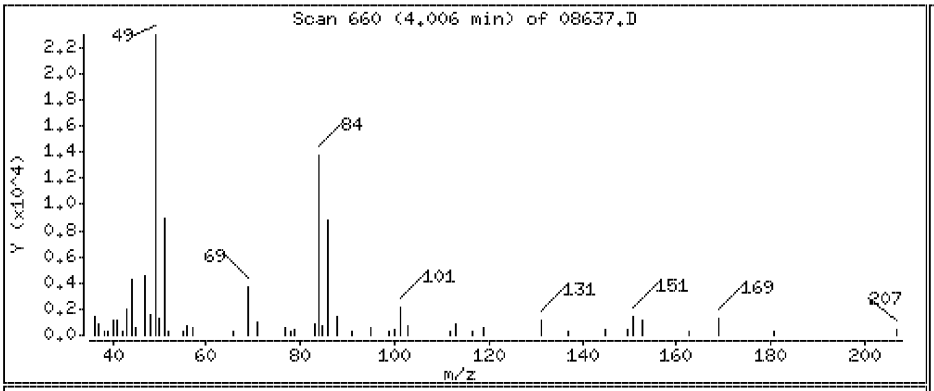
Operator: NCK

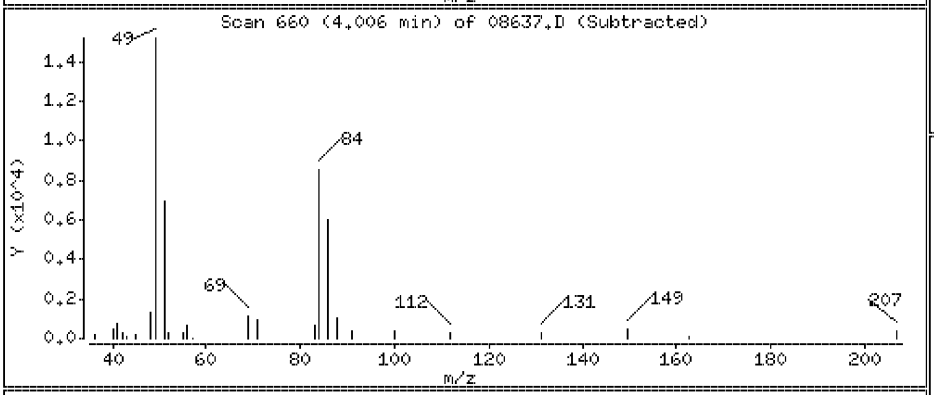
Column phase: J&W DB-5

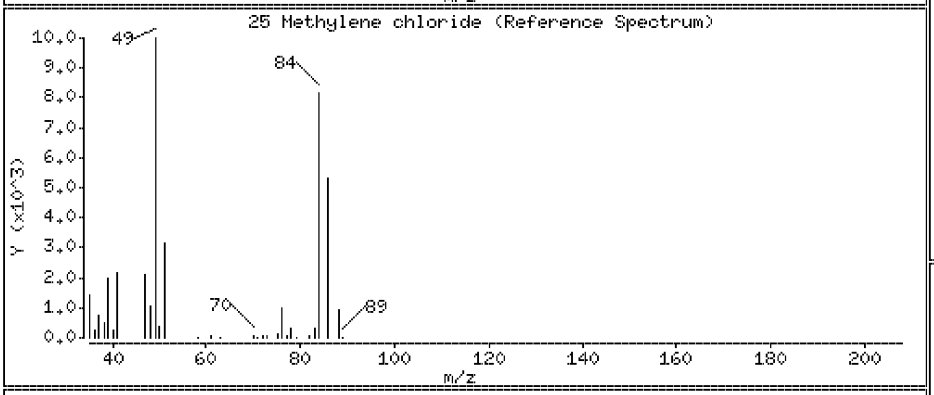
Column diameter: 0.32

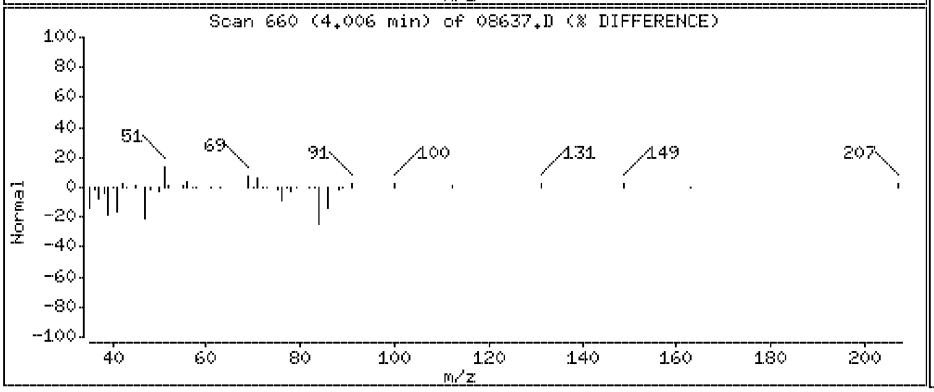
25 Methylene chloride

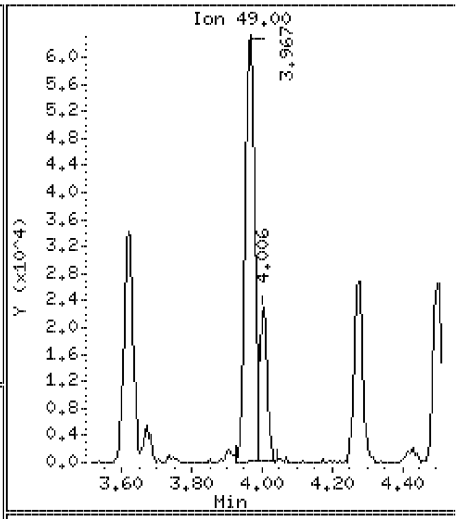
Concentration: 1.05 ppbv

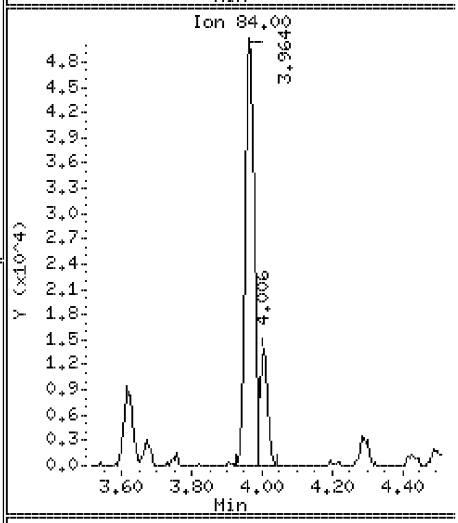


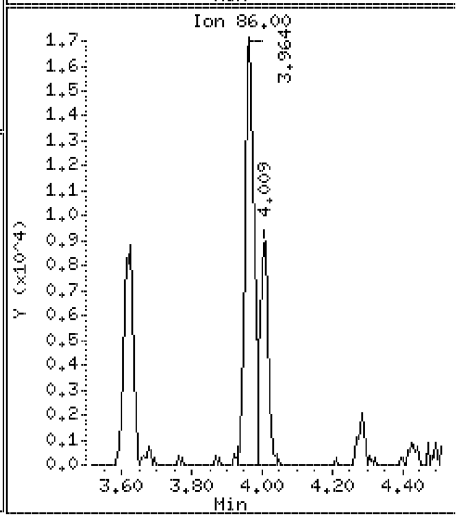












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

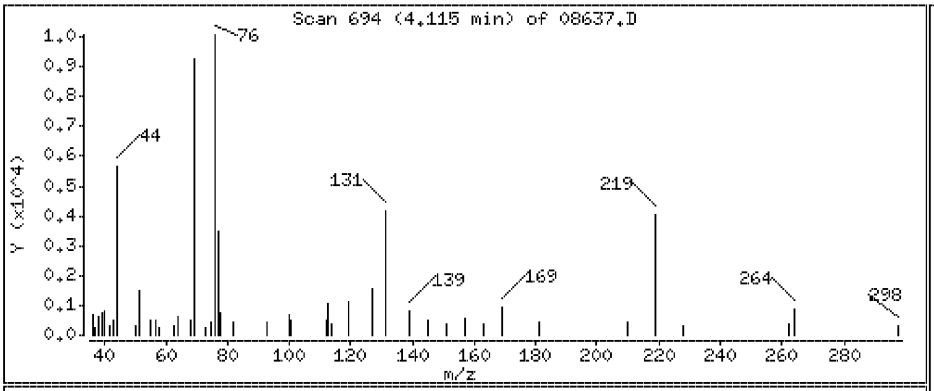
Operator: NCK

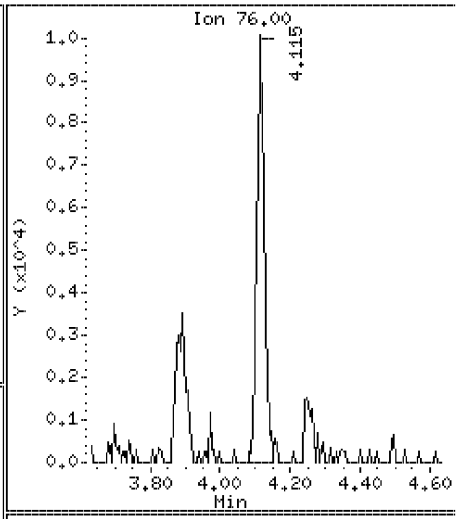
Column phase: J&W DB-5

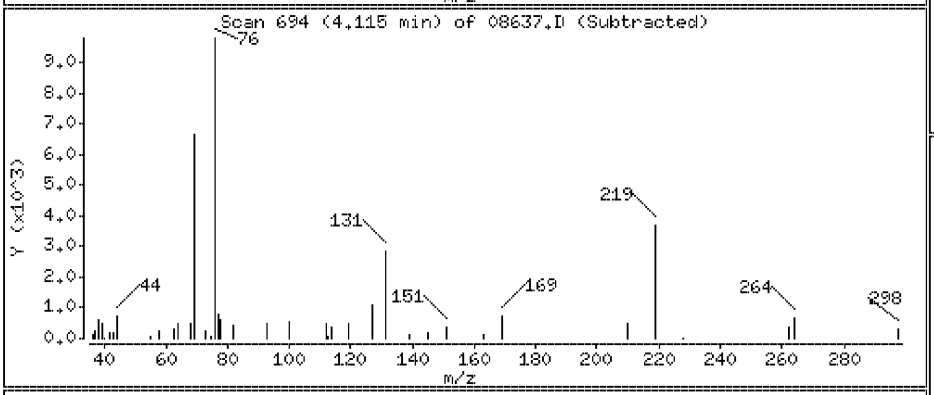
Column diameter: 0.32

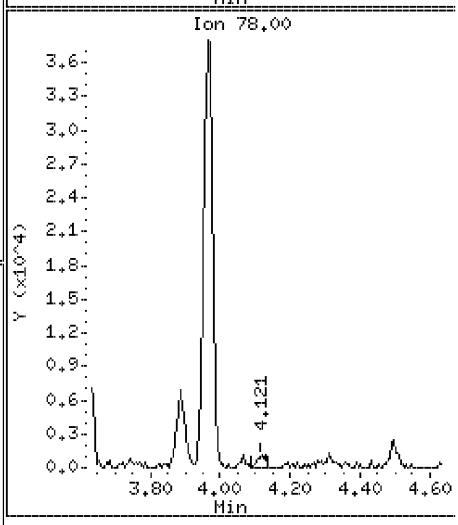
27 Carbon Disulfide

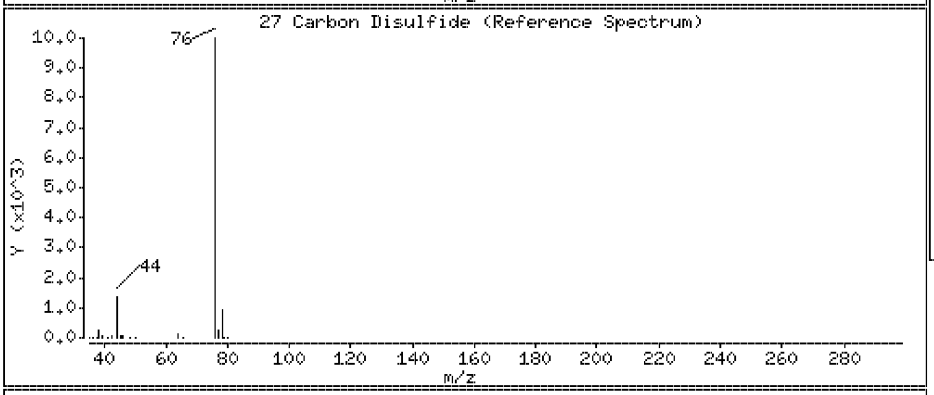
Concentration: 0.255 ppbv

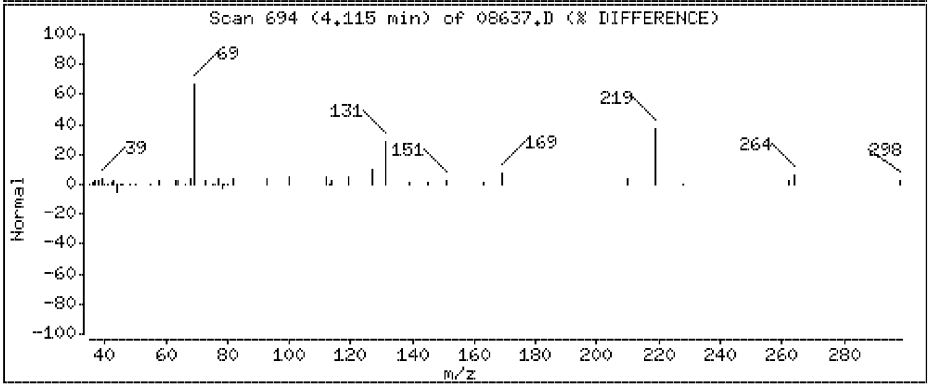












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

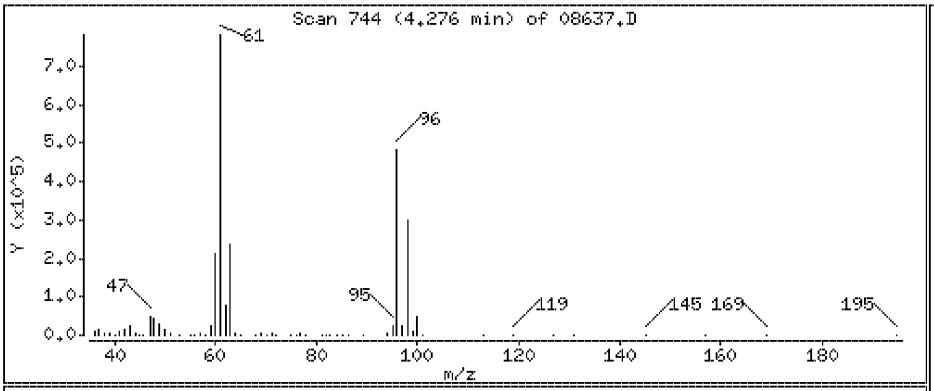
Operator: NCK

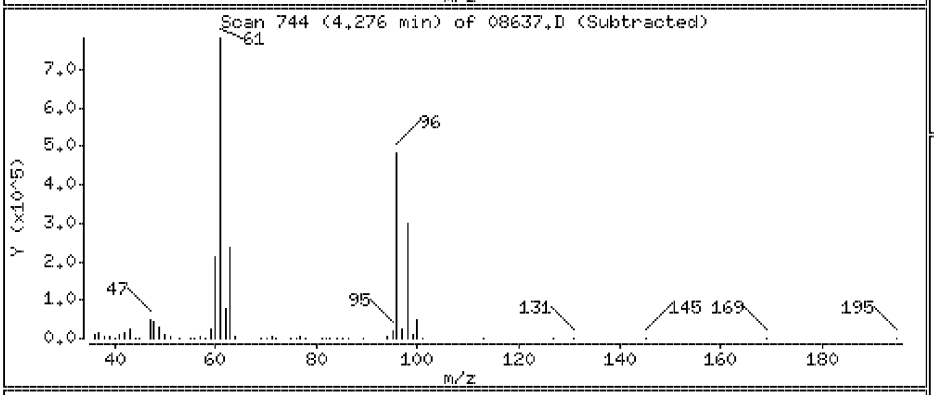
Column phase: J&W DB-5

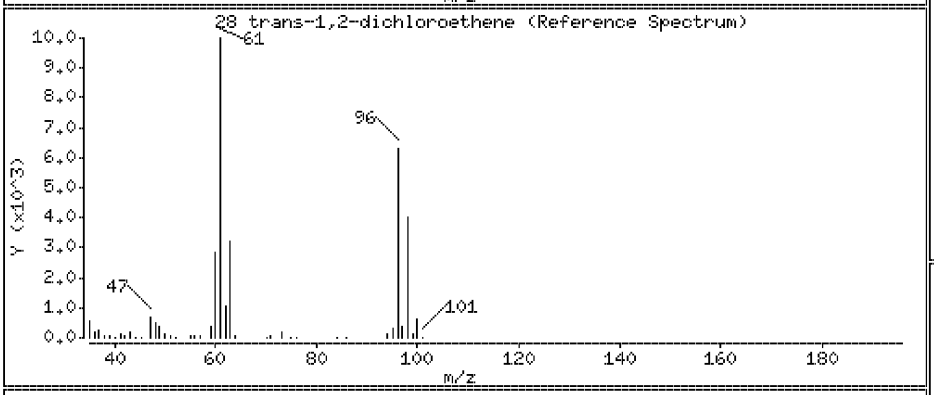
Column diameter: 0.32

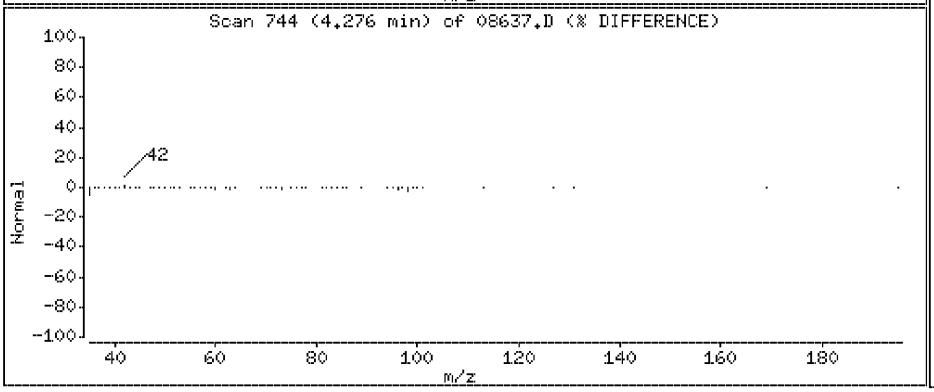
28 trans-1,2-dichloroethene

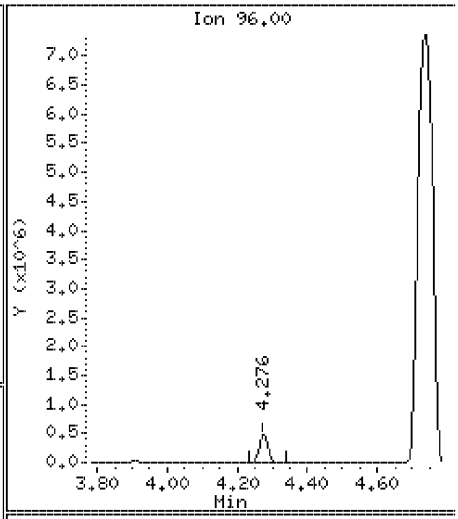
Concentration: 31.9 ppbv

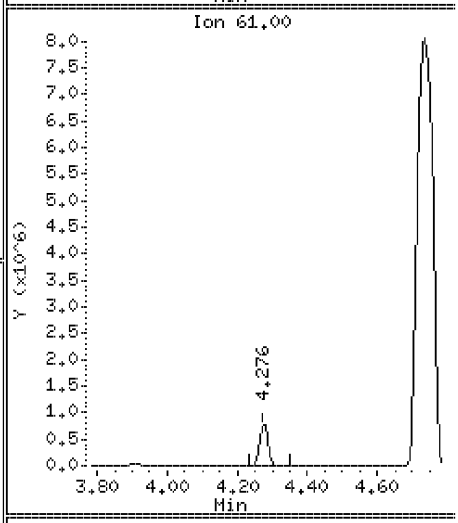


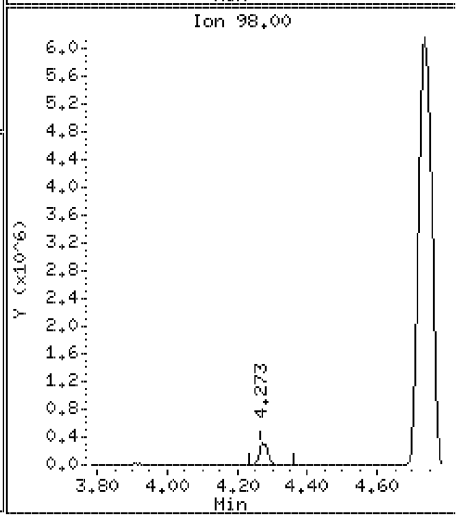












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

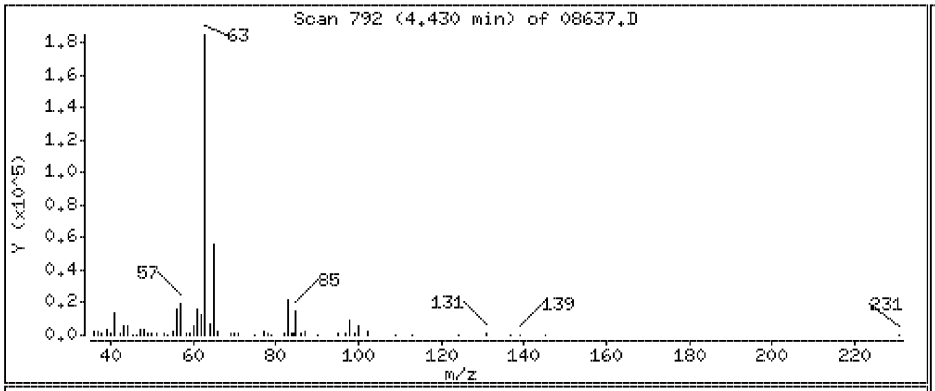
Operator: NCK

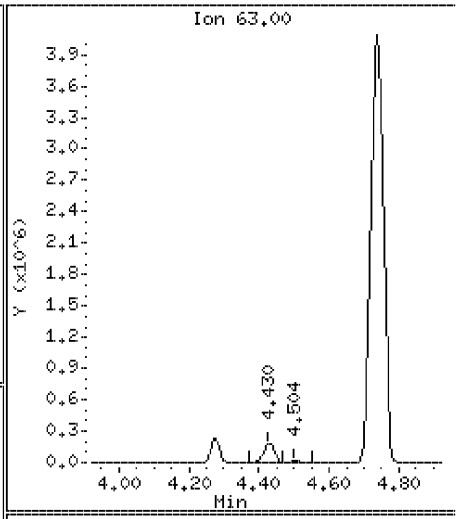
Column phase: J&W DB-5

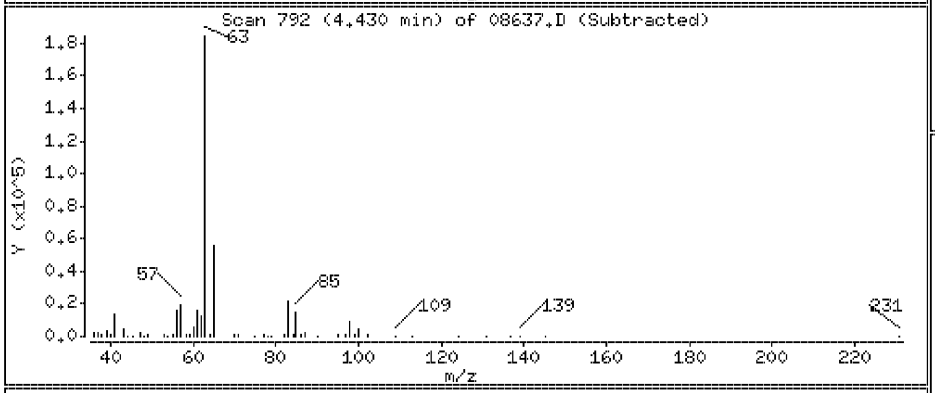
Column diameter: 0.32

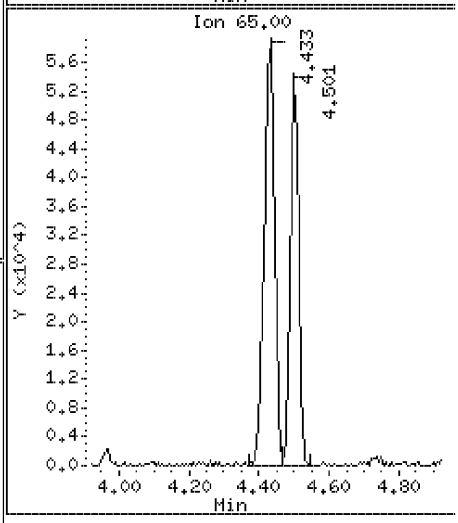
31 1,1-Dichloroethane

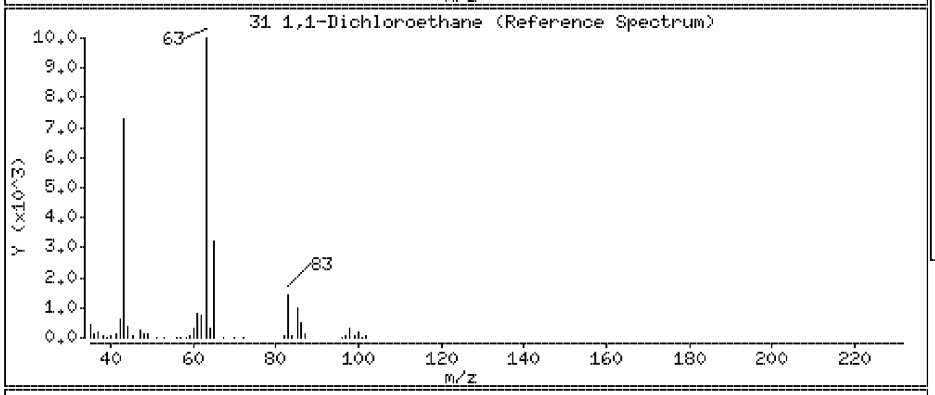
Concentration: 8.32 ppbv

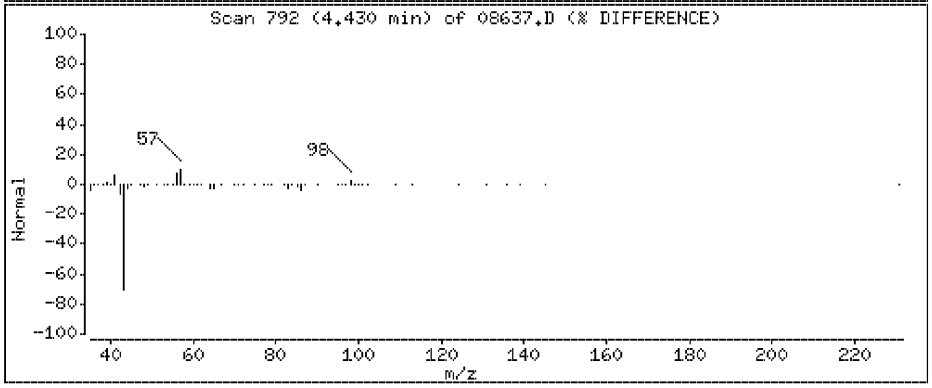












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

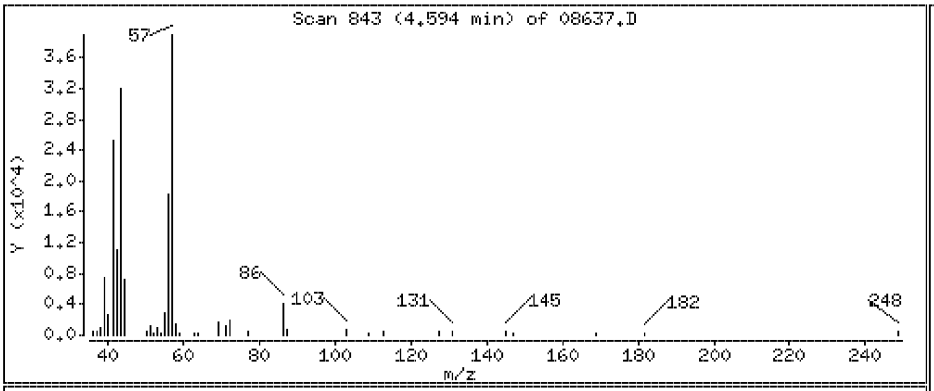
Operator: NCK

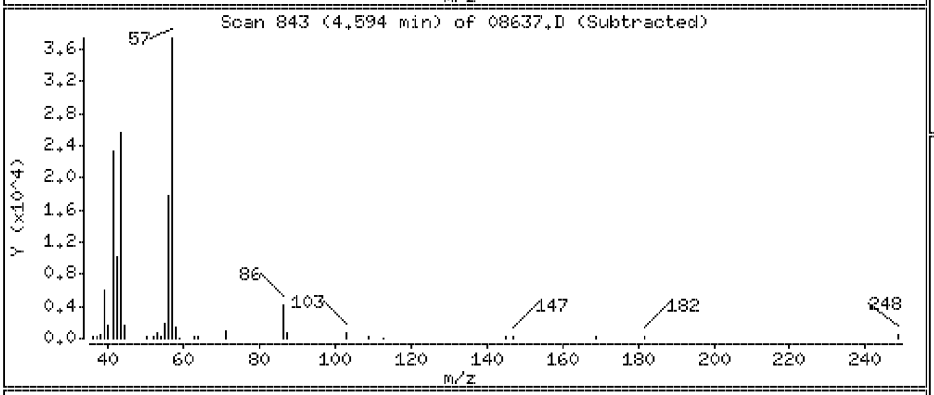
Column phase: J&W DB-5

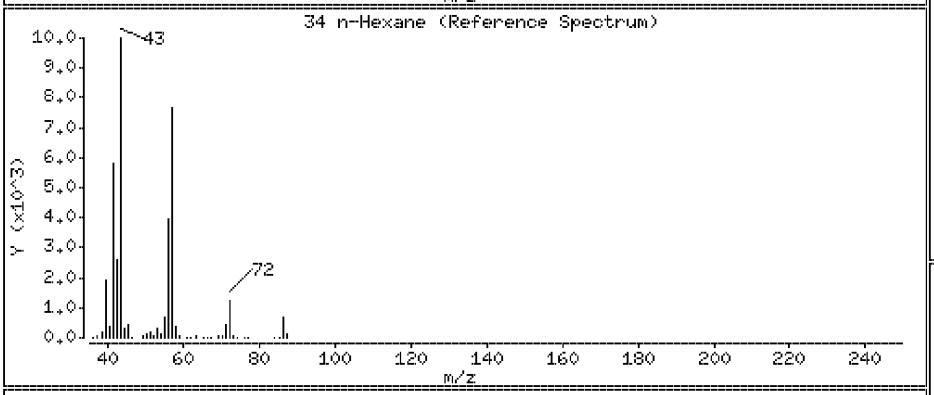
Column diameter: 0.32

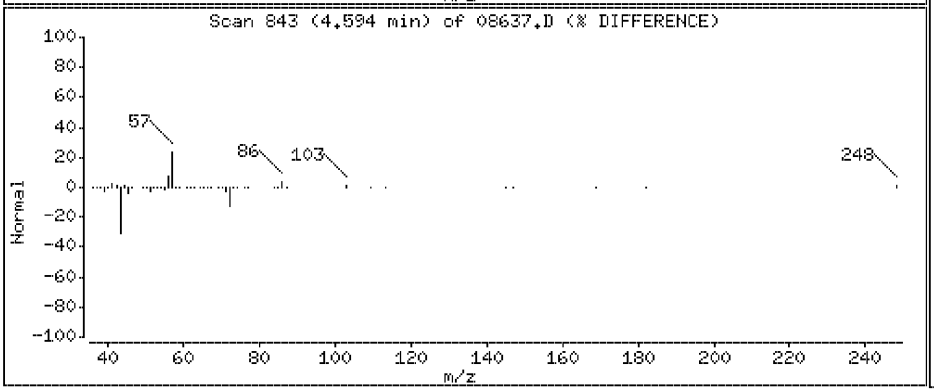
34 n-Hexane

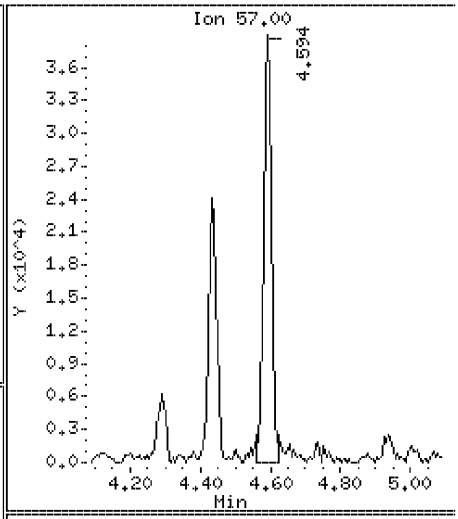
Concentration: 1.25 ppbv

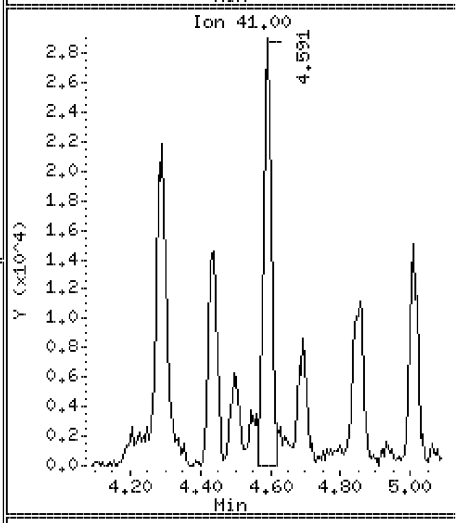


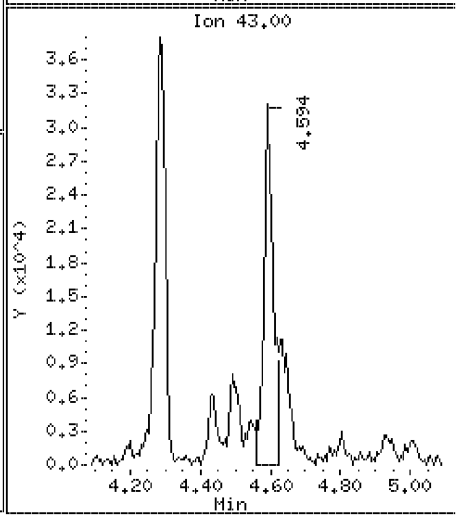












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

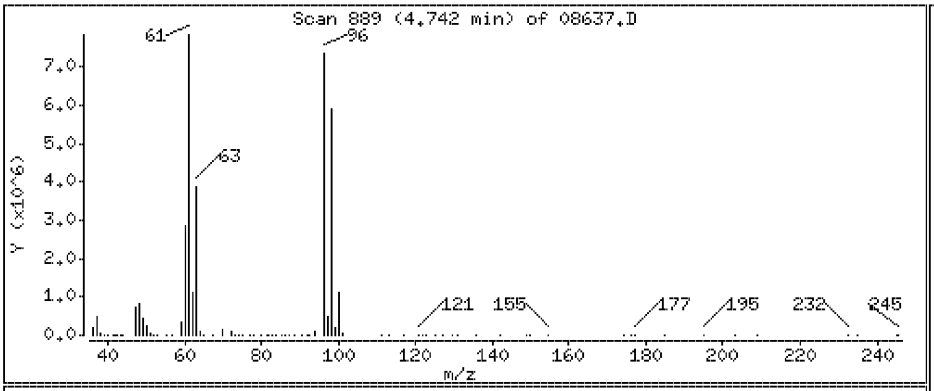
Operator: NCK

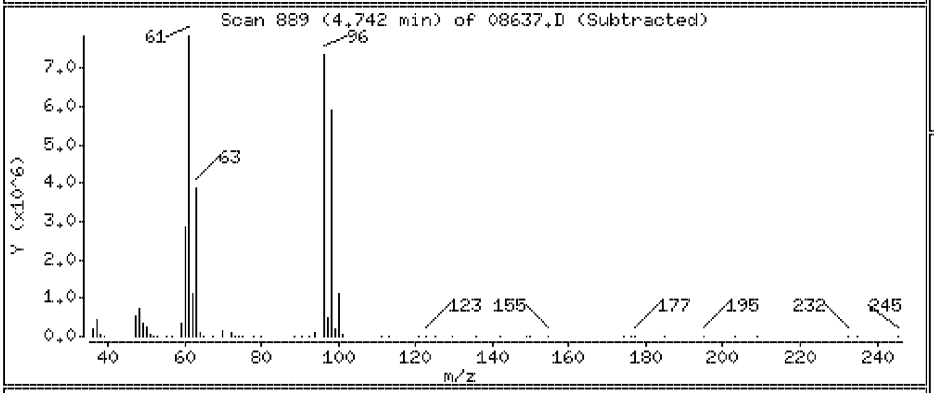
Column phase: J&W DB-5

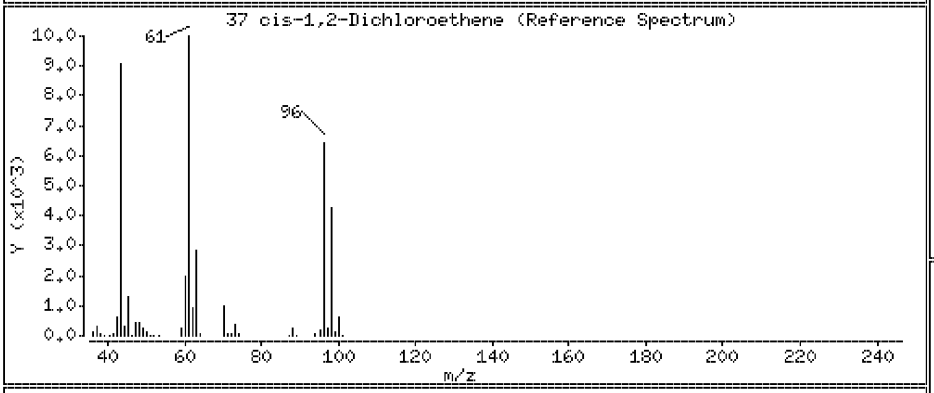
Column diameter: 0.32

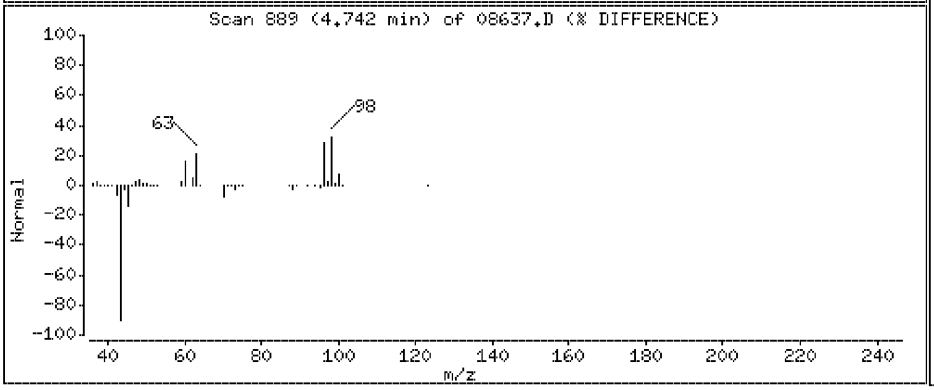
37 cis-1,2-Dichloroethene

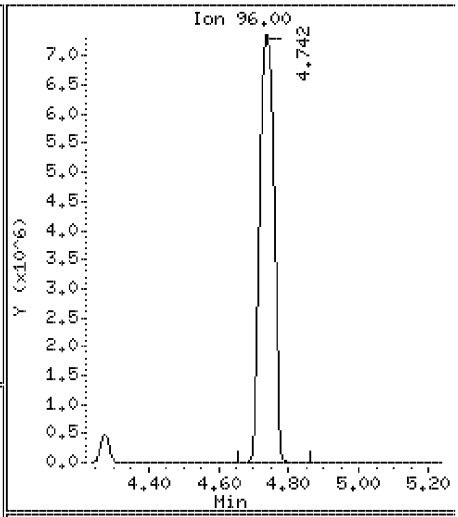
Concentration: 782 ppbv

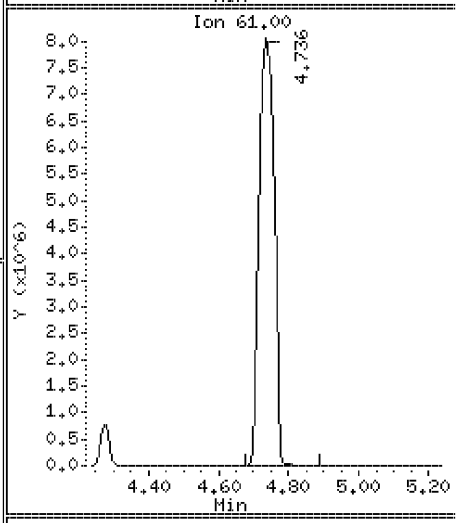


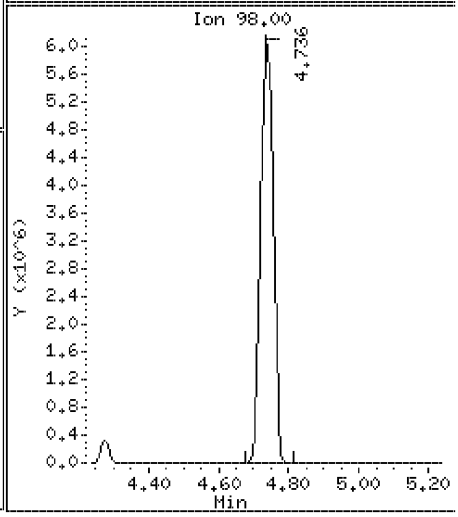












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

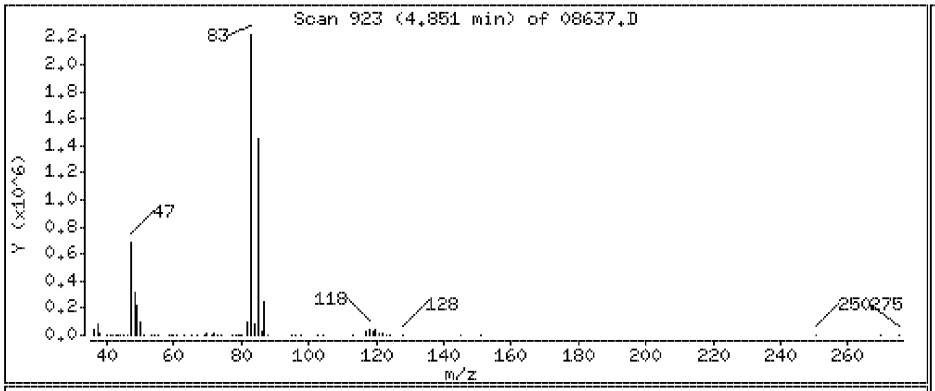
Operator: NCK

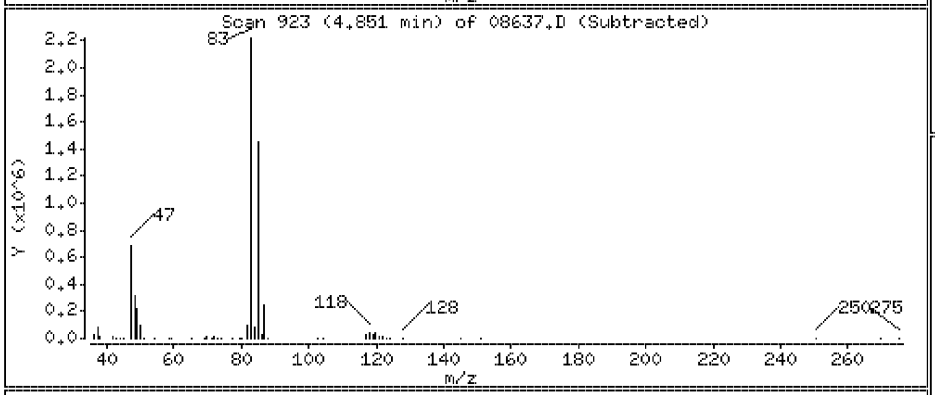
Column phase: J&W DB-5

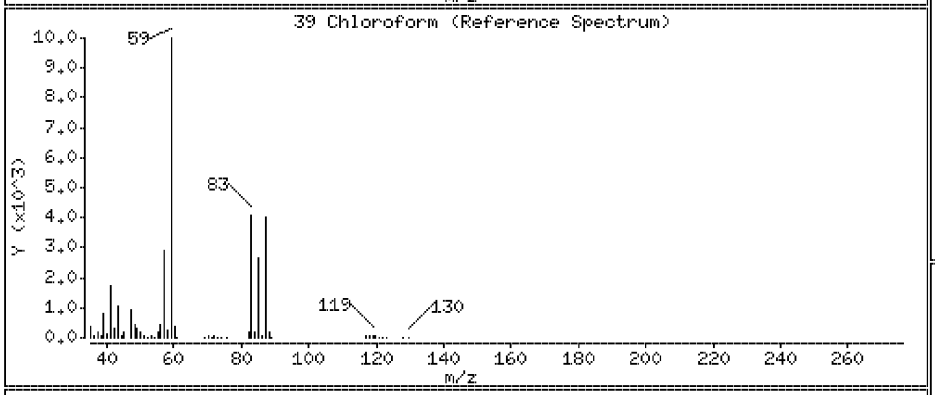
Column diameter: 0.32

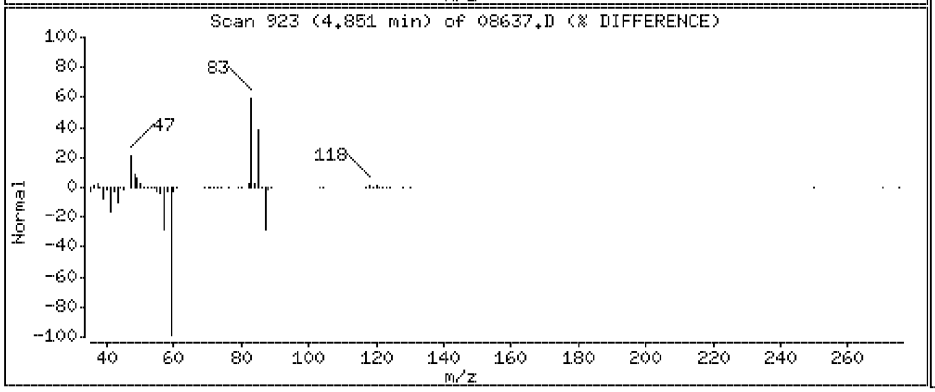
39 Chloroform

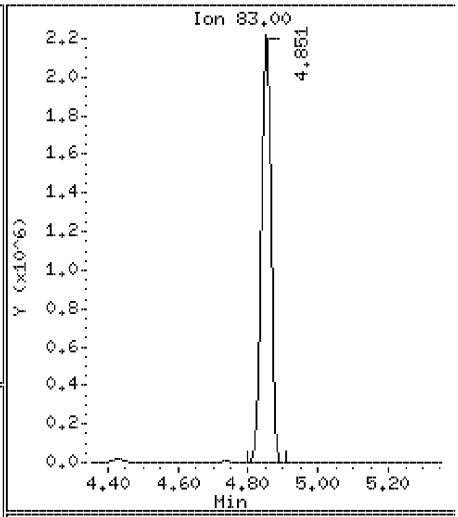
Concentration: 78.3 ppbv

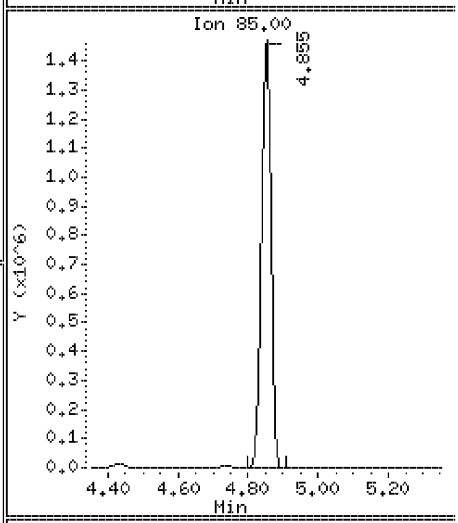


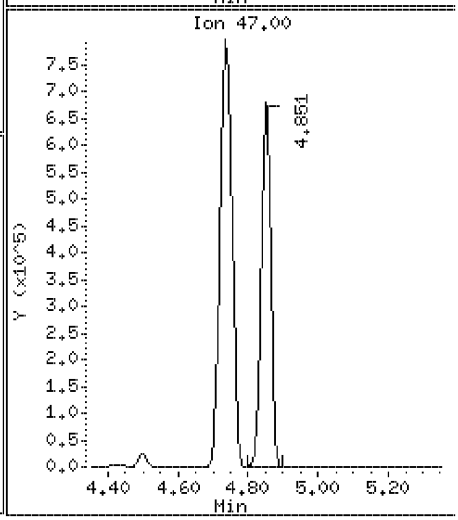












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

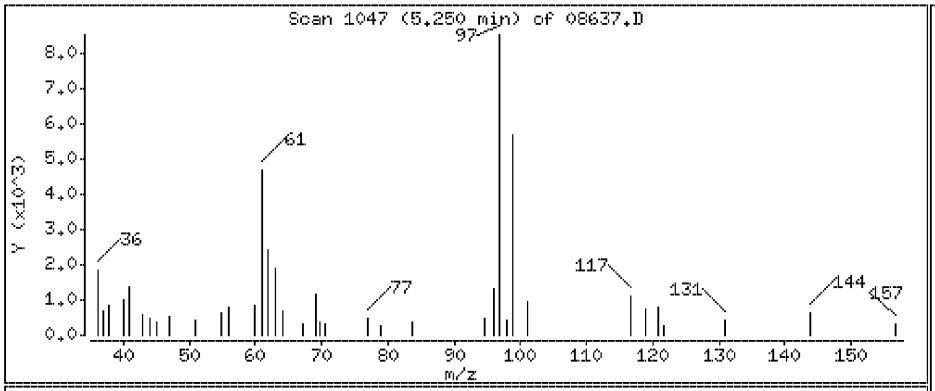
Operator: NCK

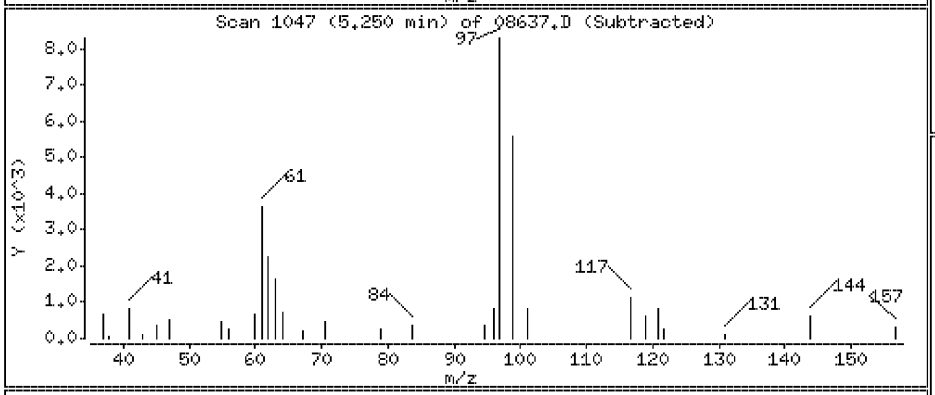
Column phase: J&W DB-5

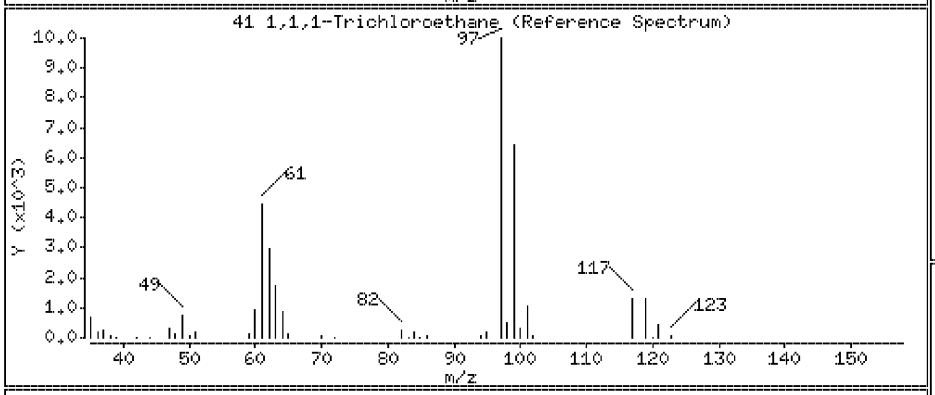
Column diameter: 0.32

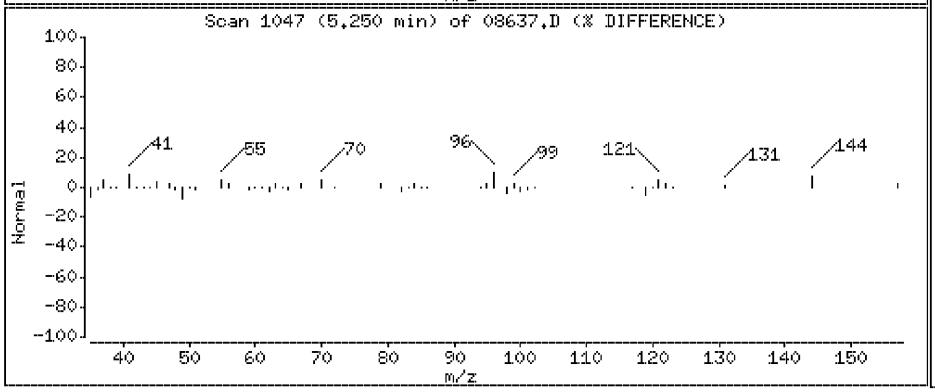
41 1,1,1-Trichloroethane

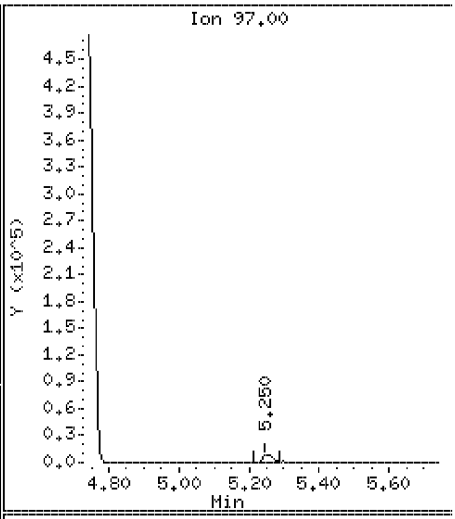
Concentration: 0.232 ppbv

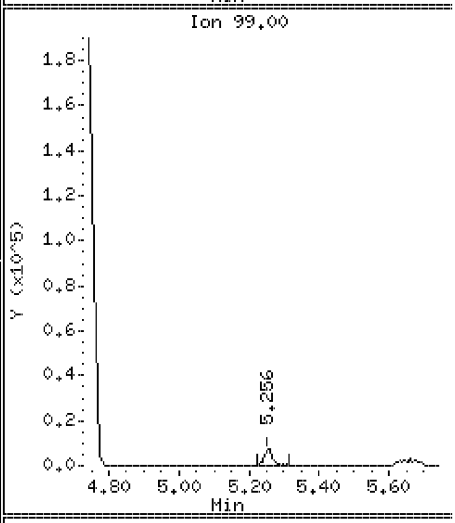


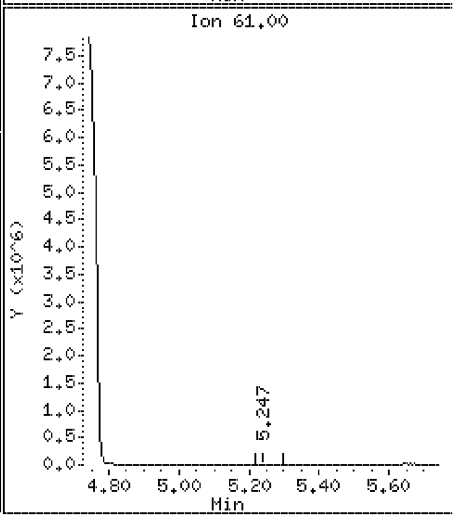












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

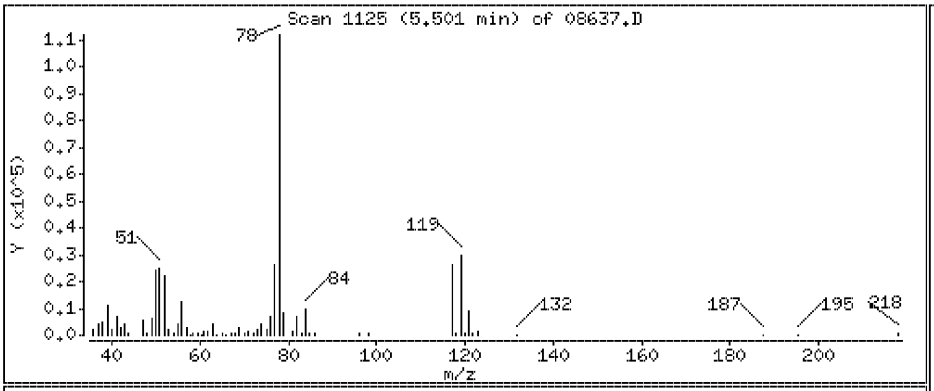
Operator: NCK

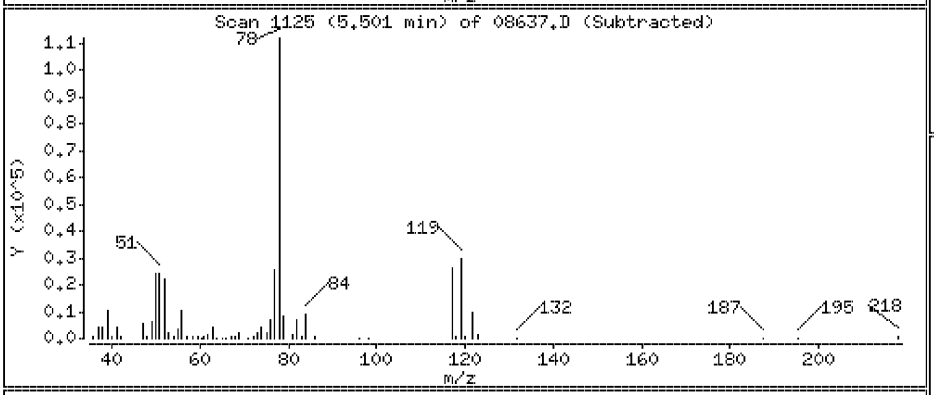
Column phase: J&W DB-5

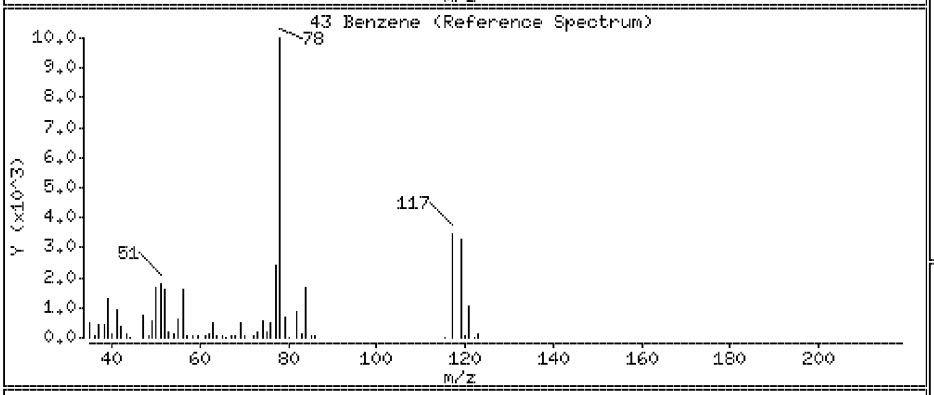
Column diameter: 0.32

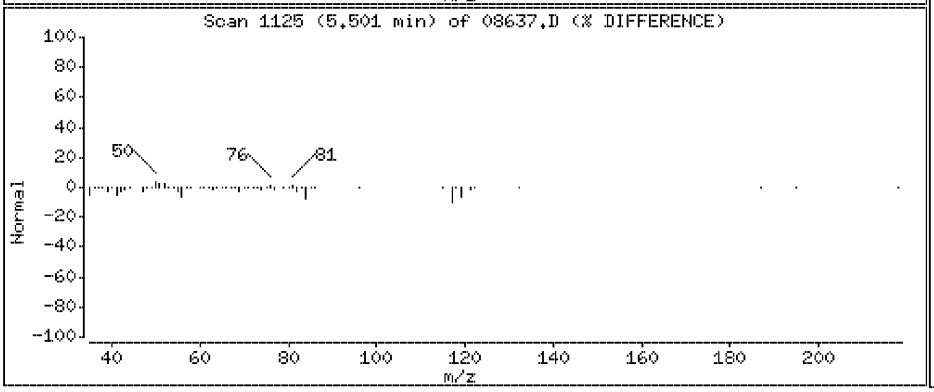
43 Benzene

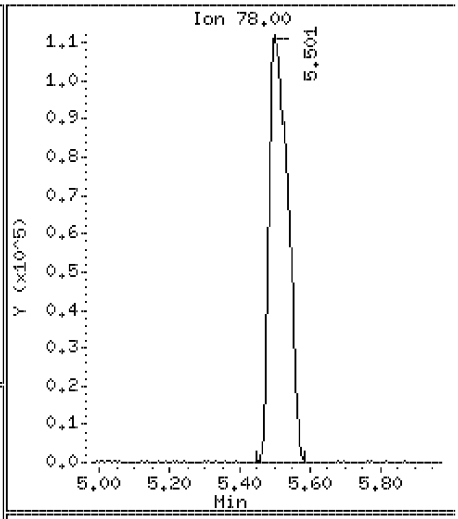
Concentration: 4.47 ppbv

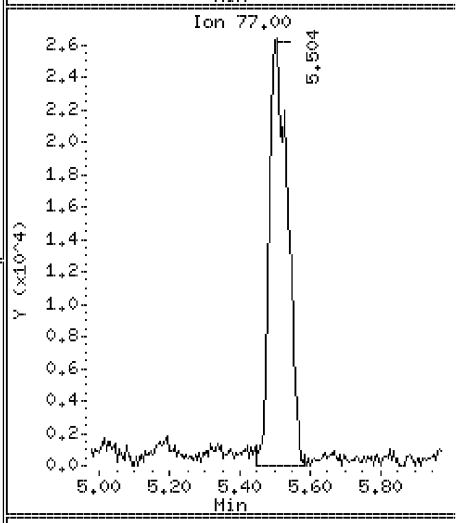


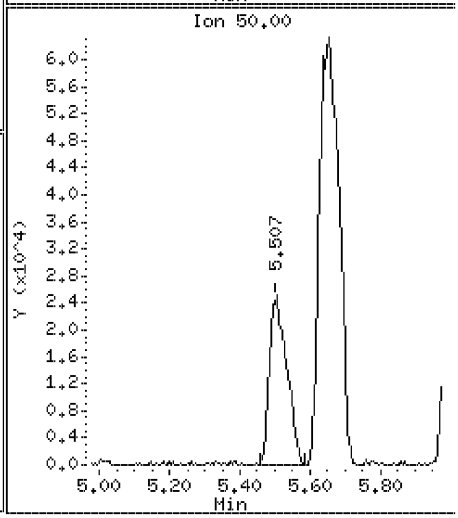












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

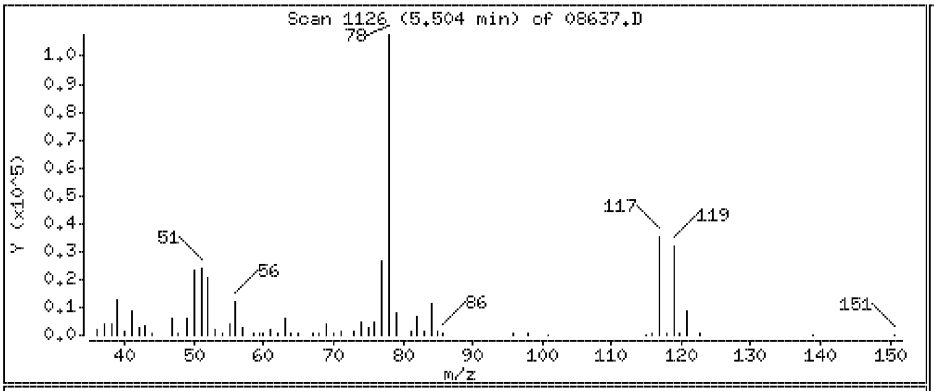
Operator: NCK

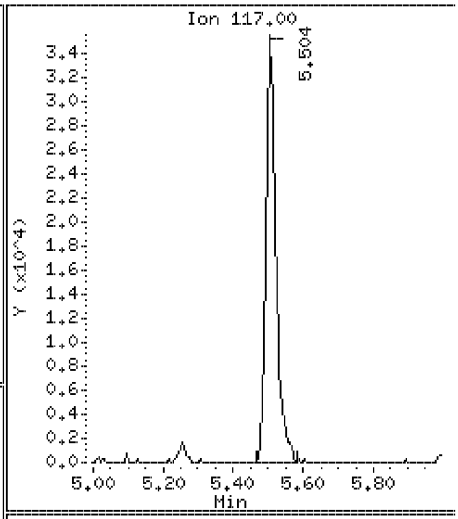
Column phase: J&W DB-5

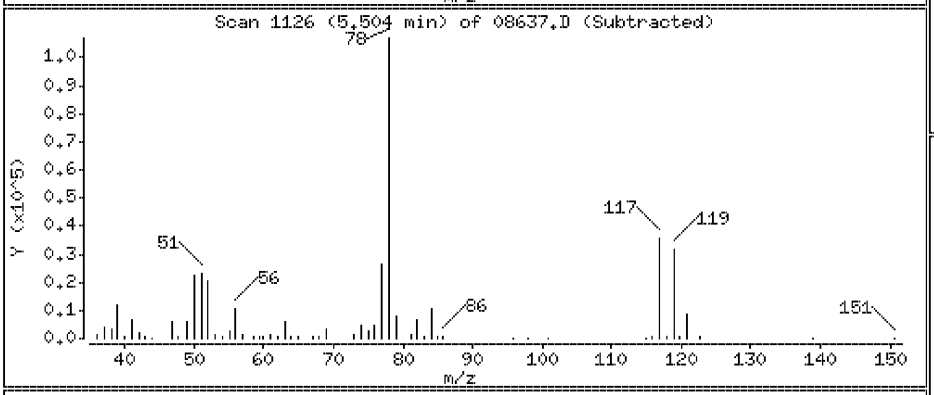
Column diameter: 0.32

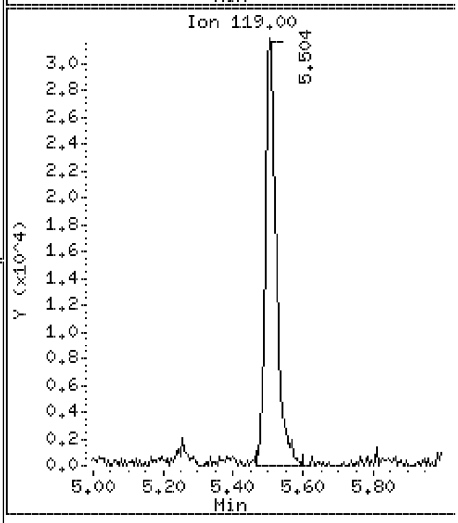
44 Carbon tetrachloride

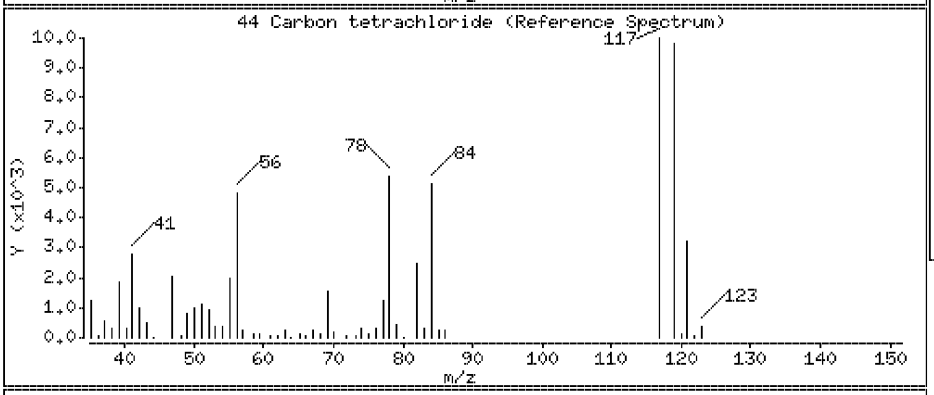
Concentration: 1.03 ppbv

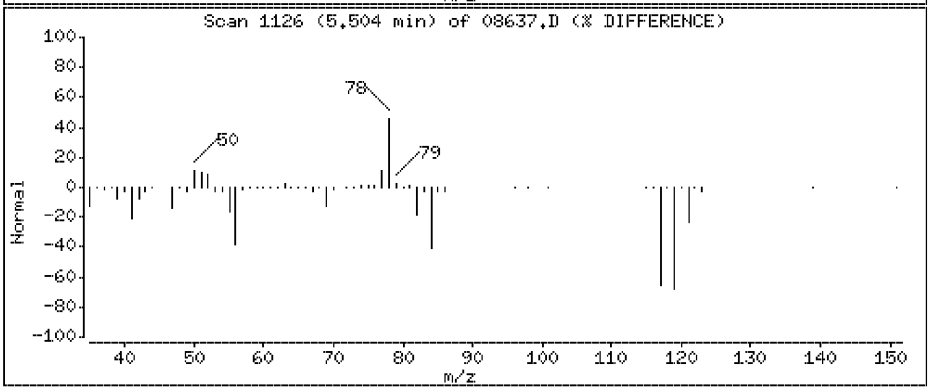












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

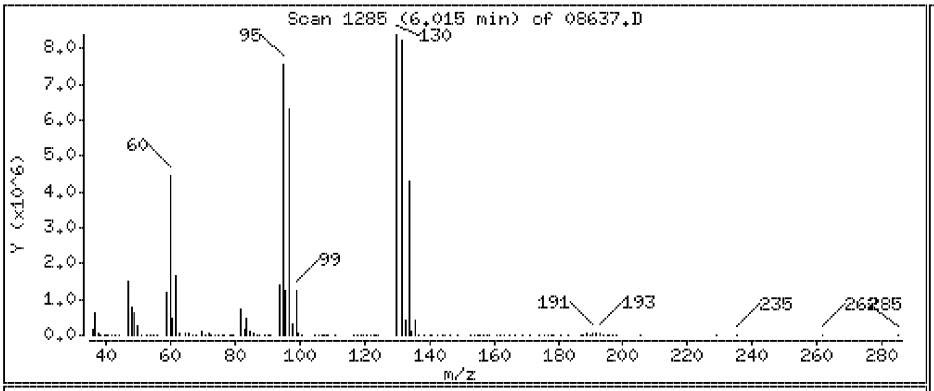
Operator: NCK

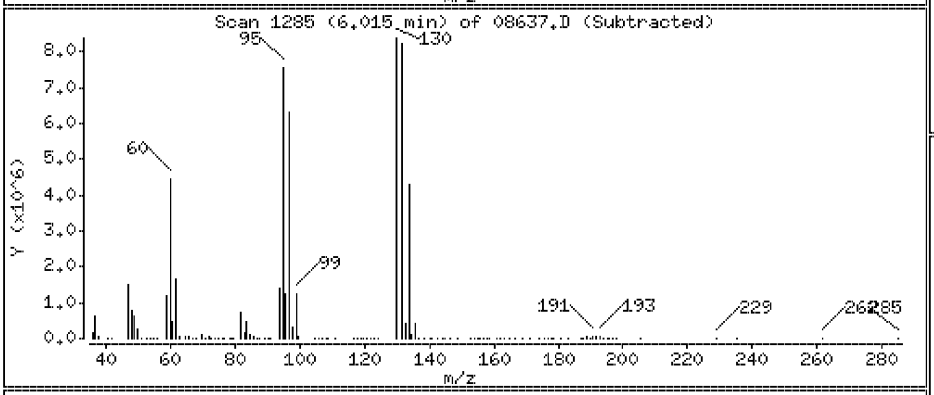
Column phase: J&W DB-5

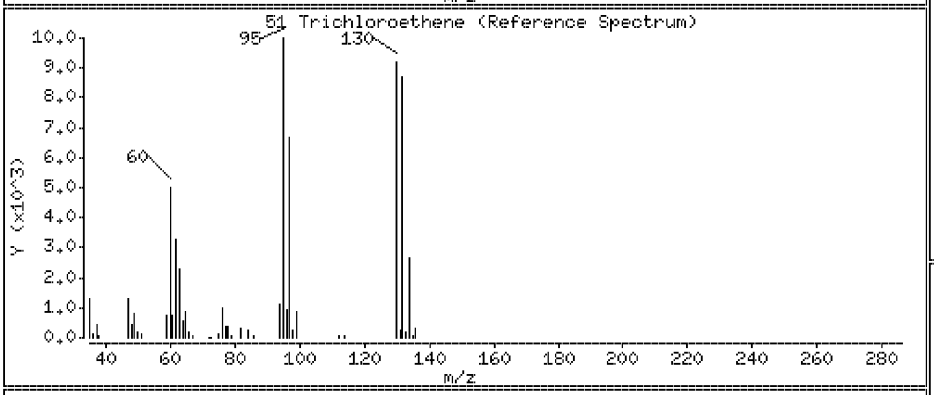
Column diameter: 0.32

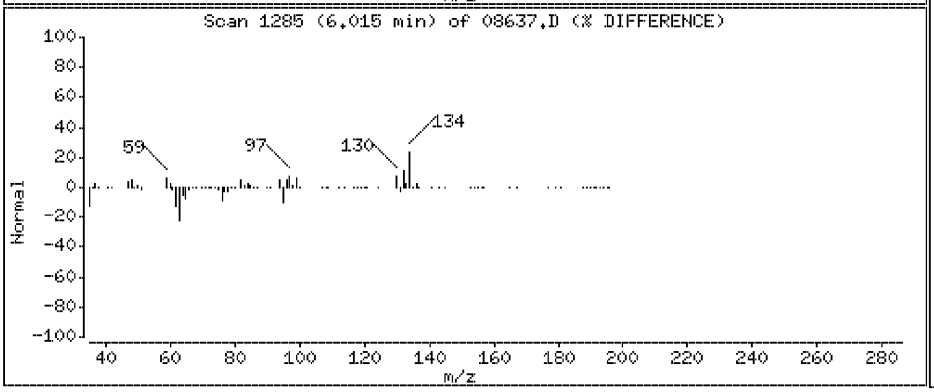
51 Trichloroethene

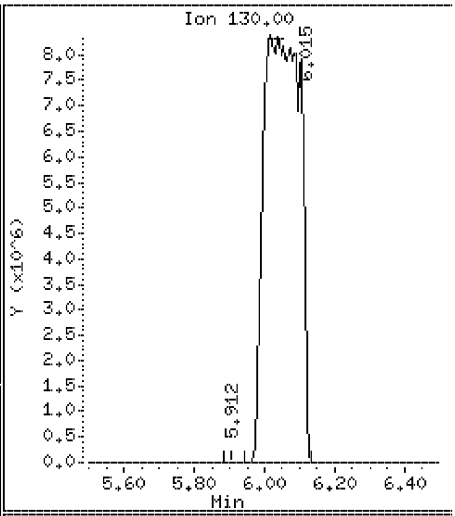
Concentration: 1270 ppbv

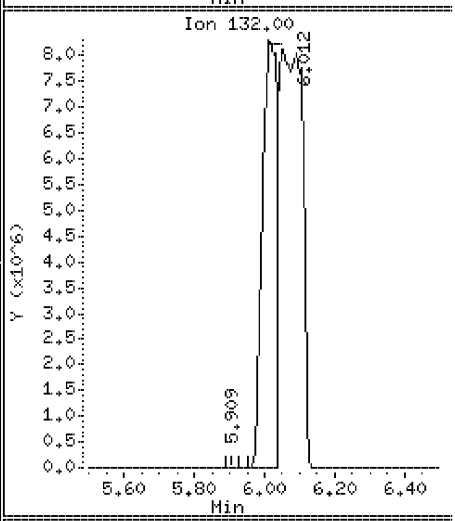


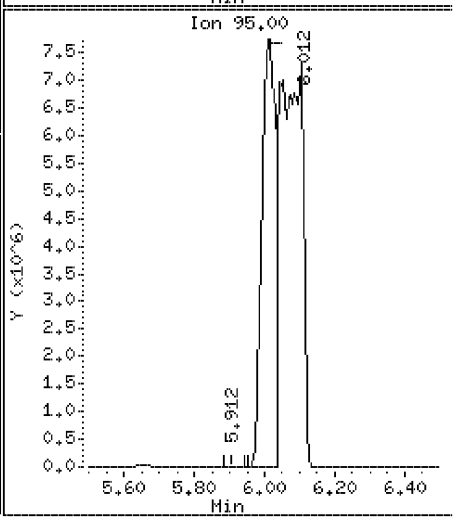












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

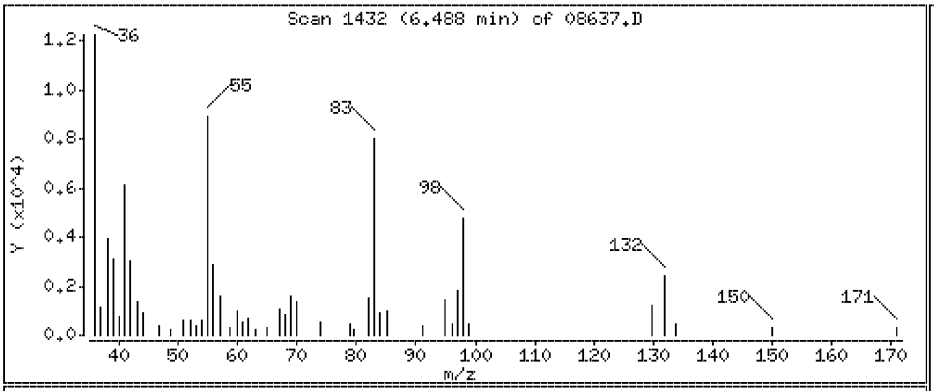
Operator: NCK

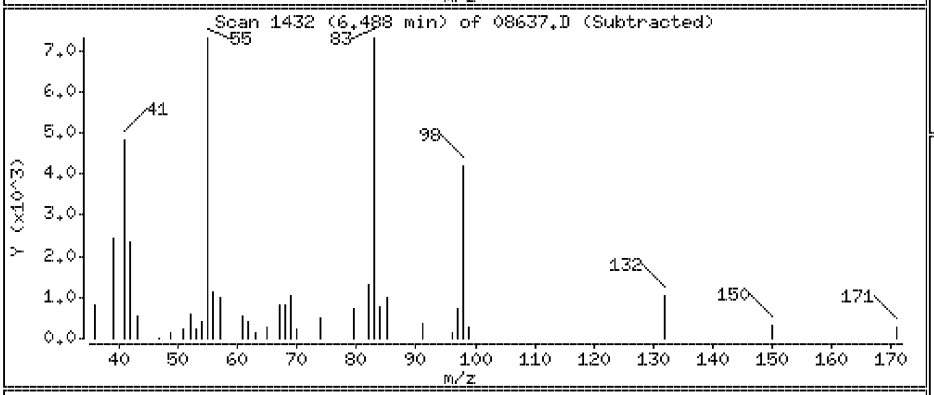
Column phase: J&W DB-5

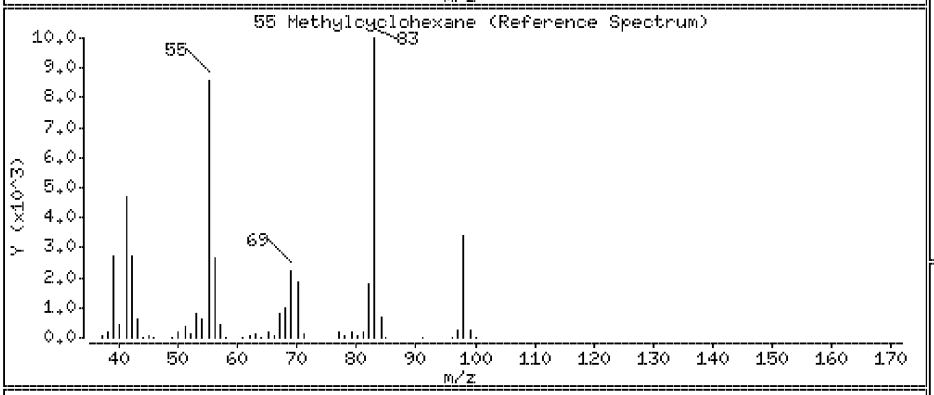
Column diameter: 0.32

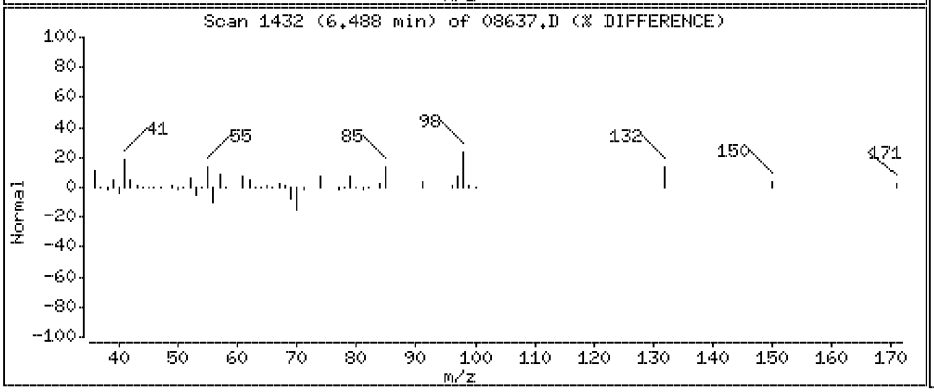
55 Methylcyclohexane

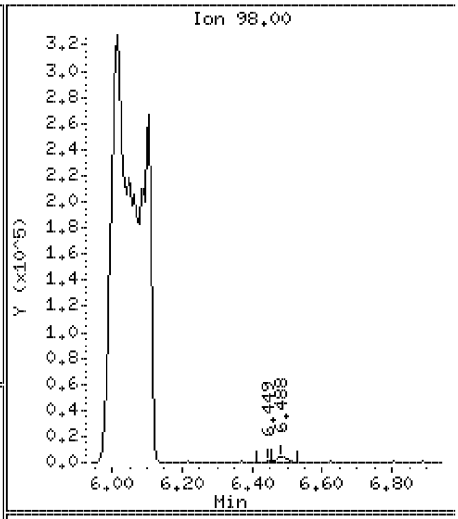
Concentration: 0.366 ppbv

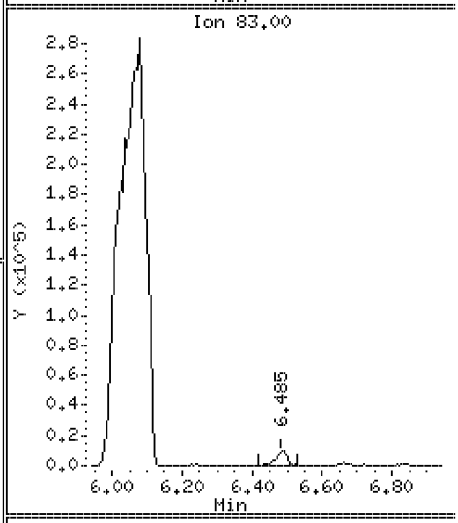


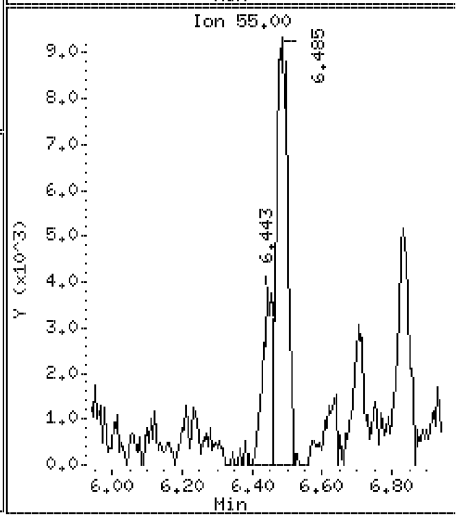












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

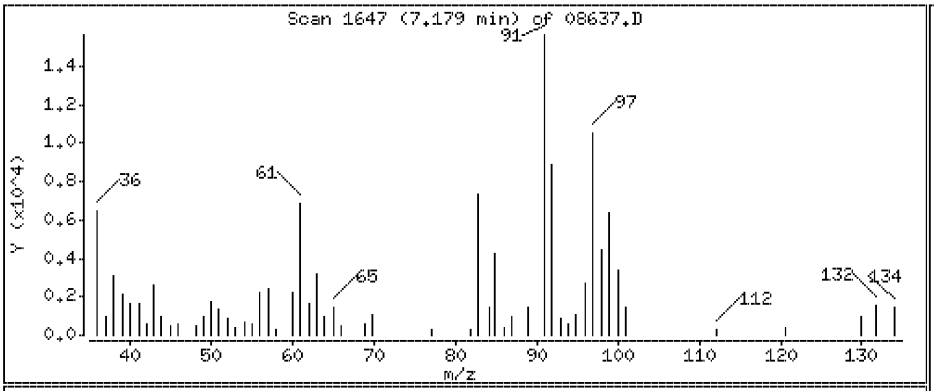
Operator: NCK

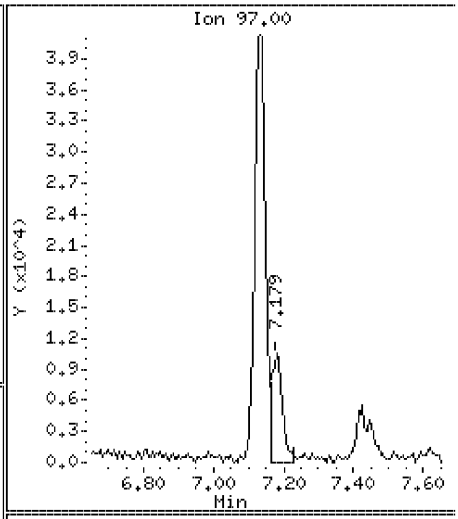
Column phase: J&W DB-5

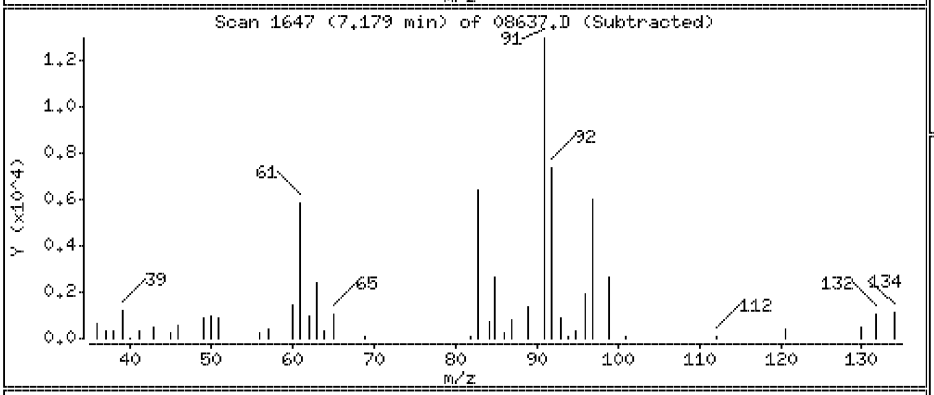
Column diameter: 0.32

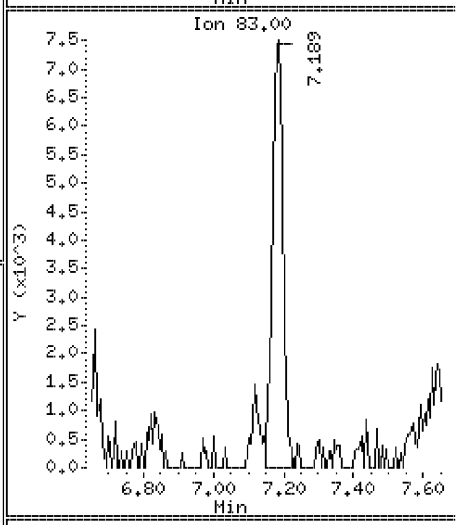
60 1,1,2-Trichloroethane

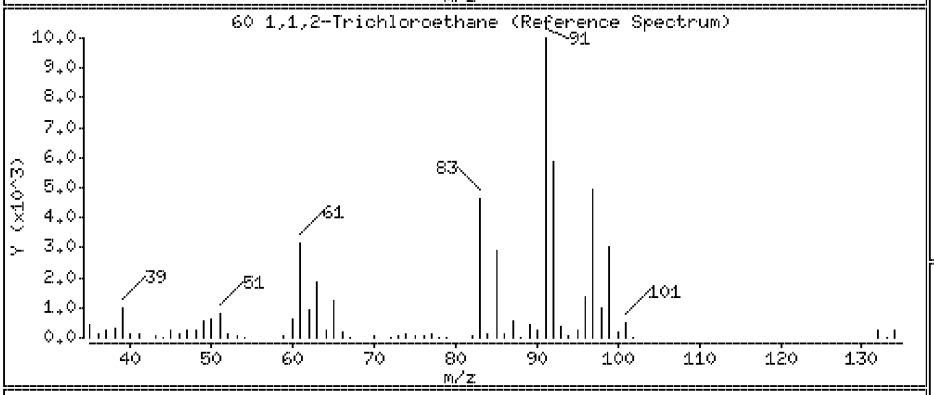
Concentration: 0.521 ppbv

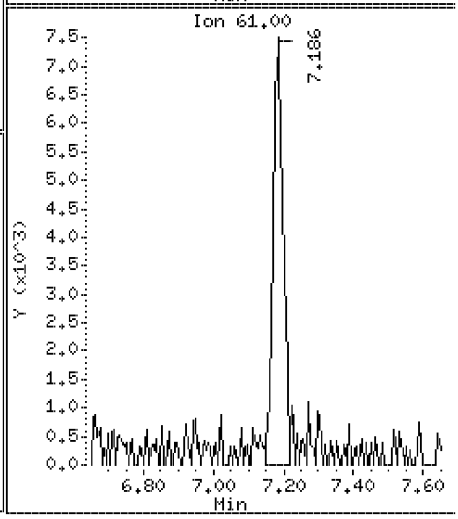


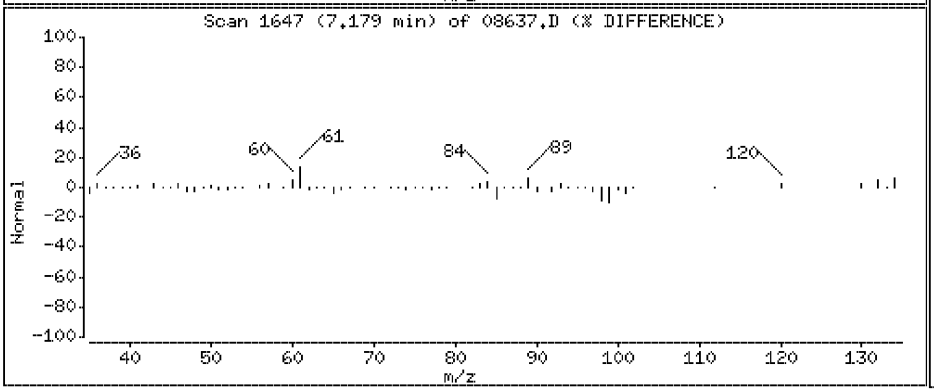












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

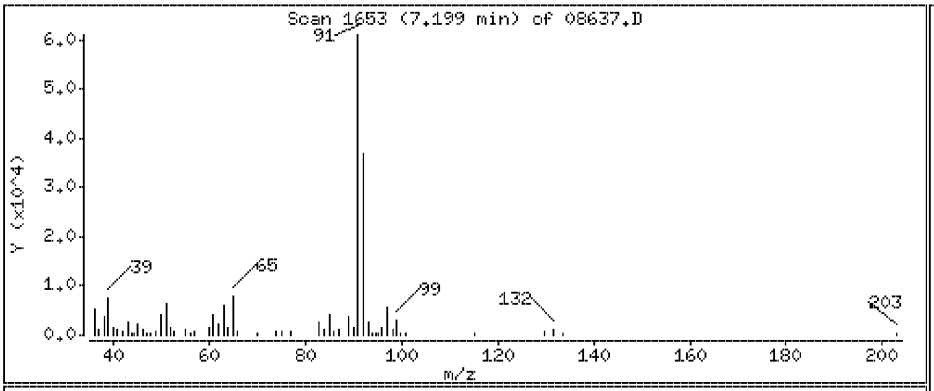
Operator: NCK

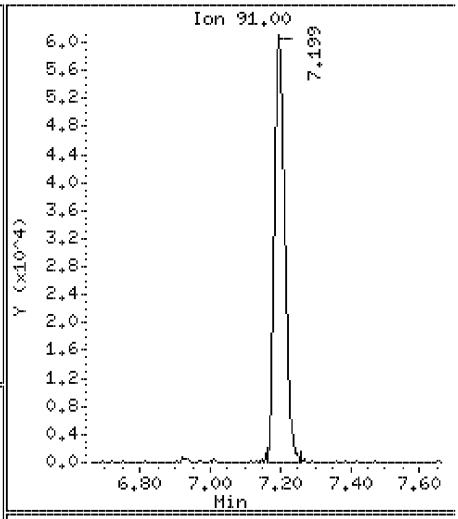
Column phase: J&W DB-5

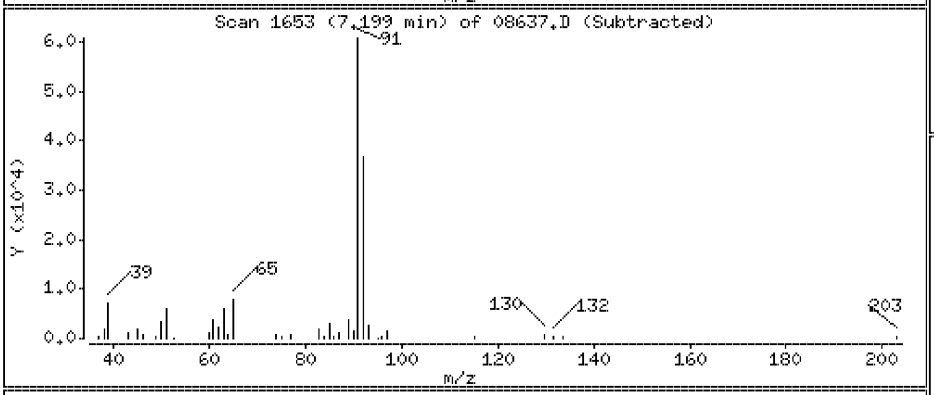
Column diameter: 0.32

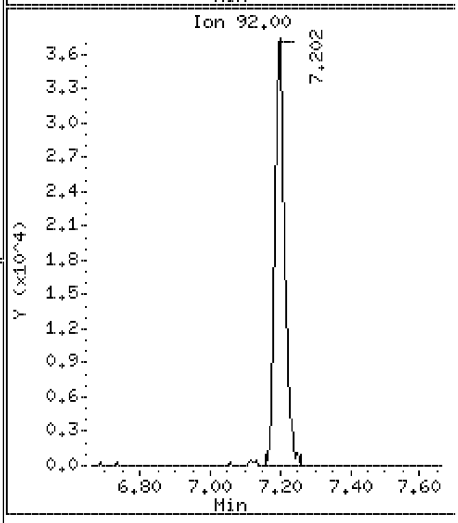
61 Toluene

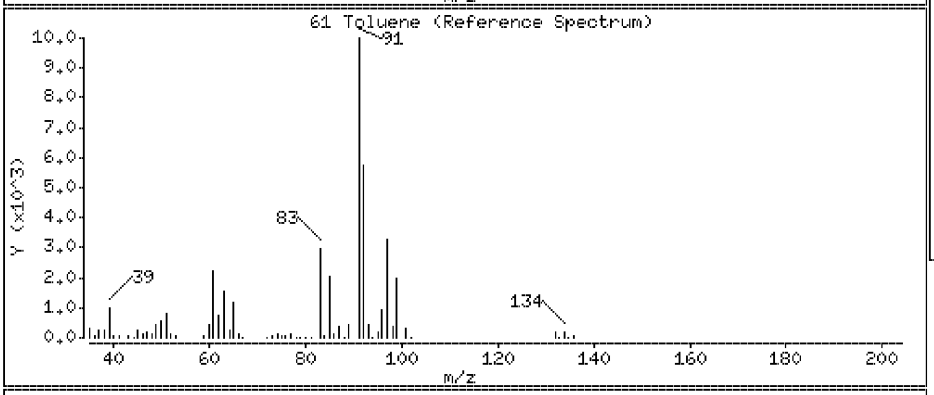
Concentration: 1.05 ppbv

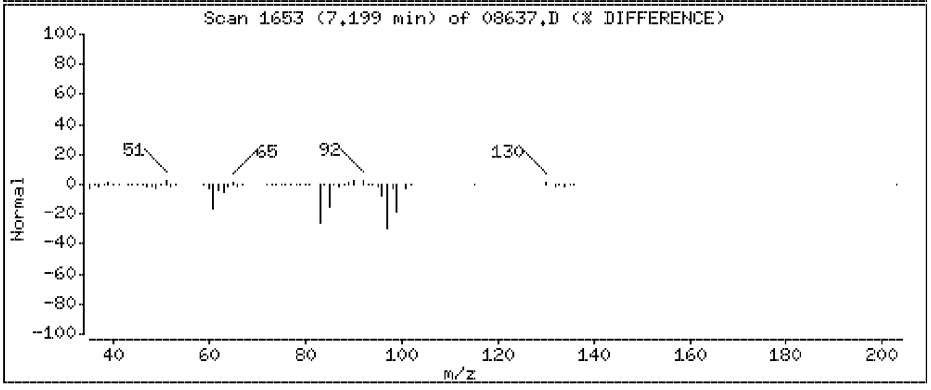












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

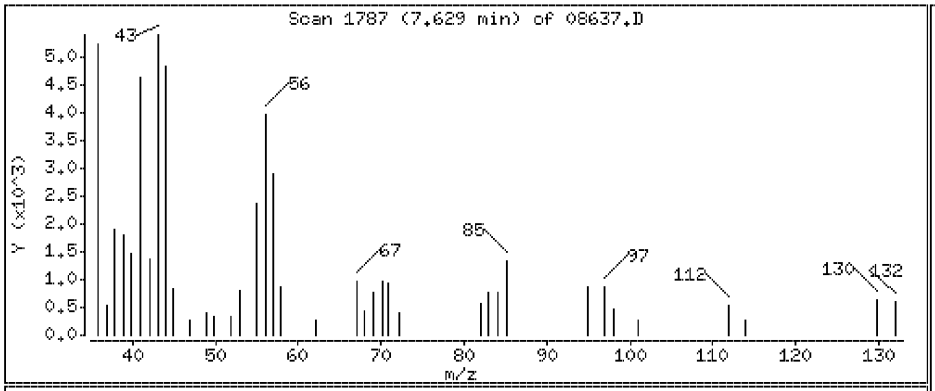
Operator: NCK

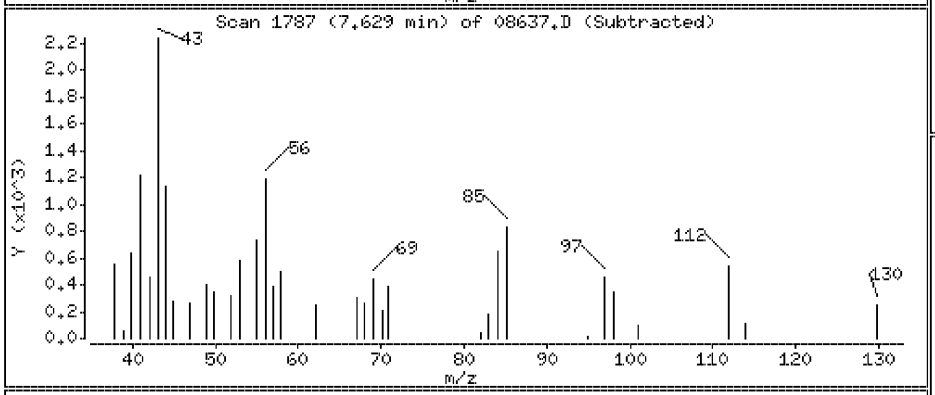
Column phase: J&W DB-5

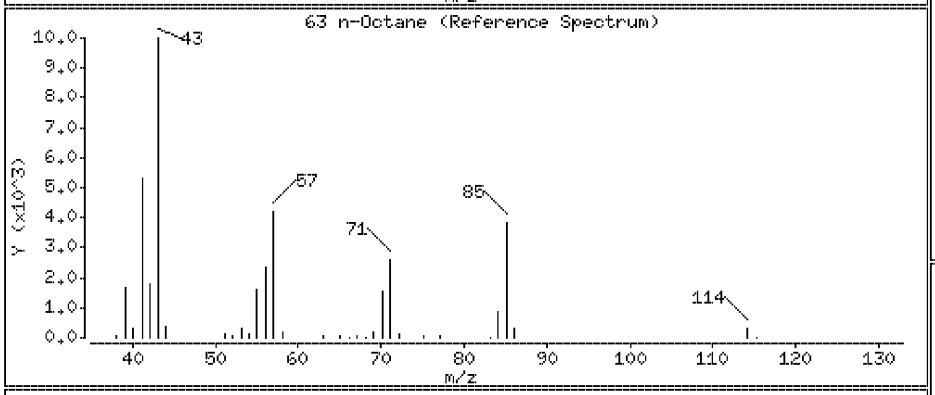
Column diameter: 0.32

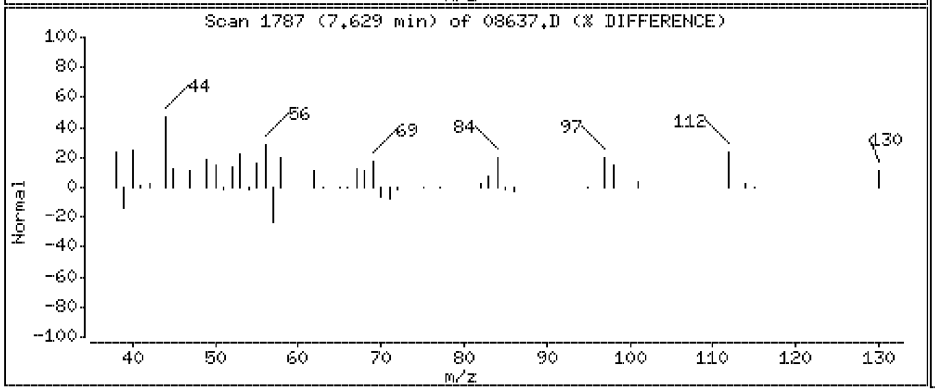
63 n-Octane

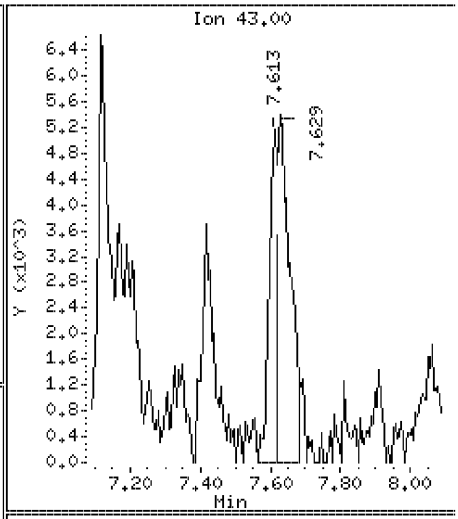
Concentration: 0.219 ppbv

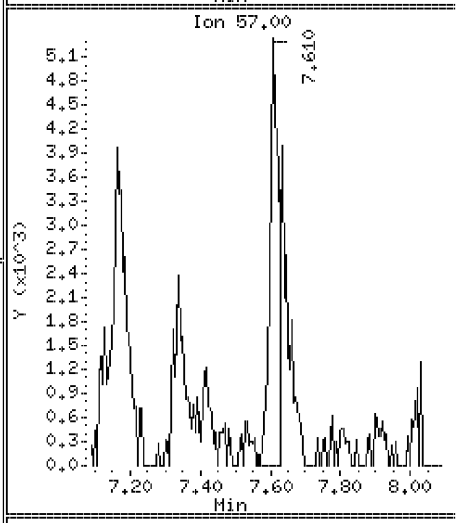


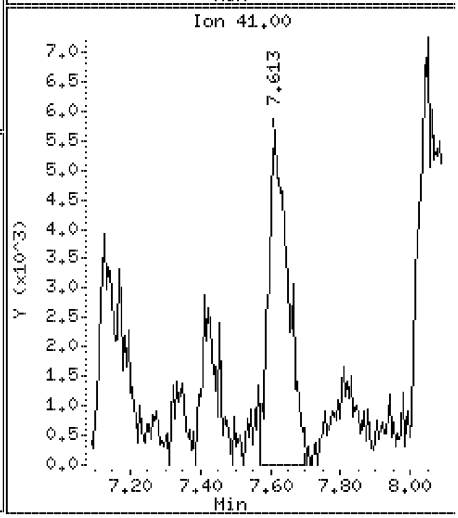












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

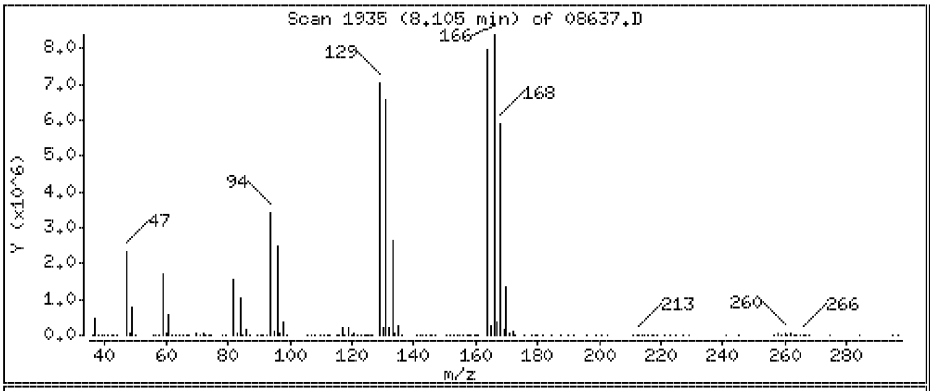
Operator: NCK

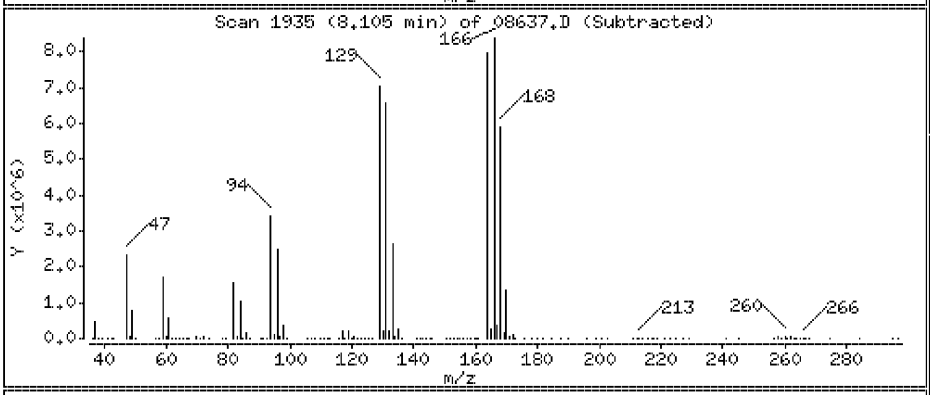
Column phase: J&W DB-5

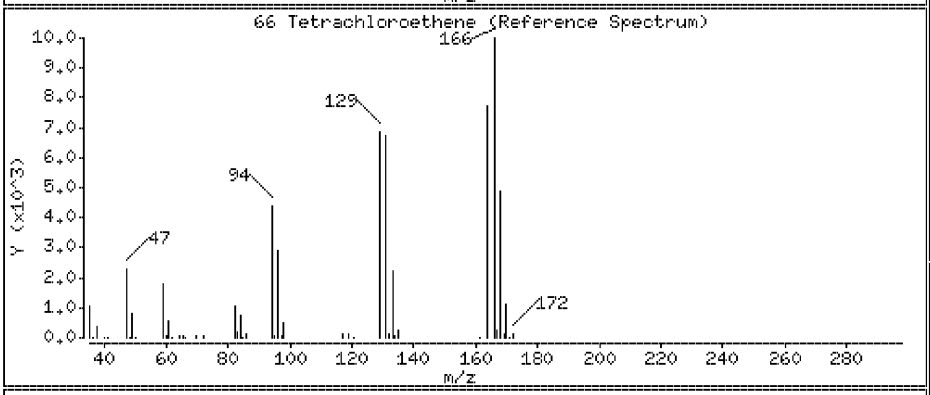
Column diameter: 0.32

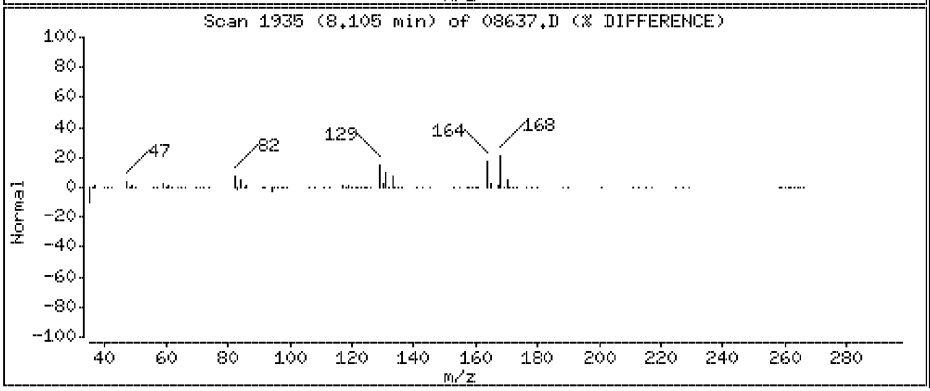
66 Tetrachloroethene

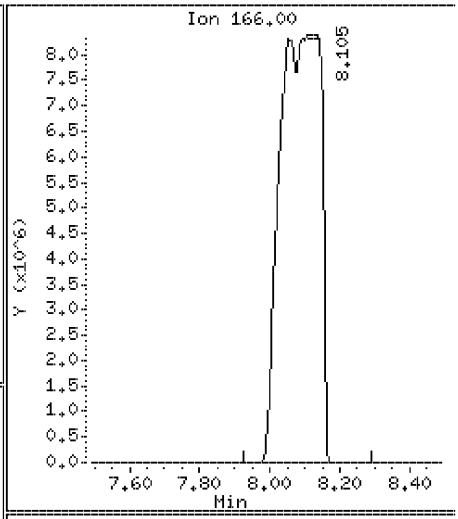
Concentration: 1320 ppbv

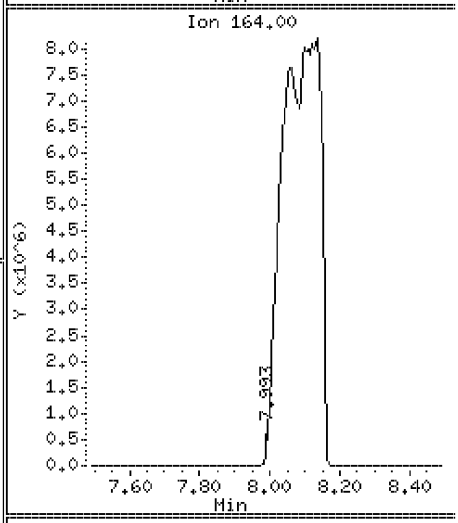


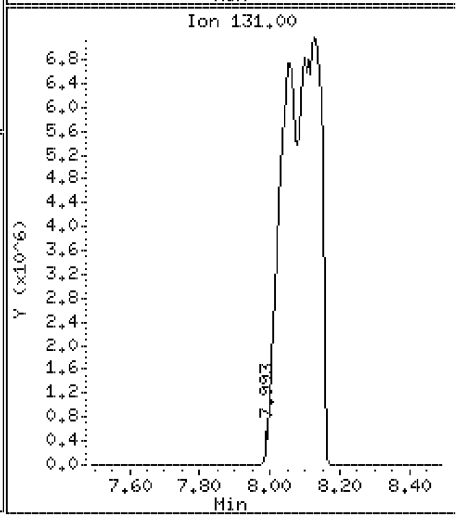












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

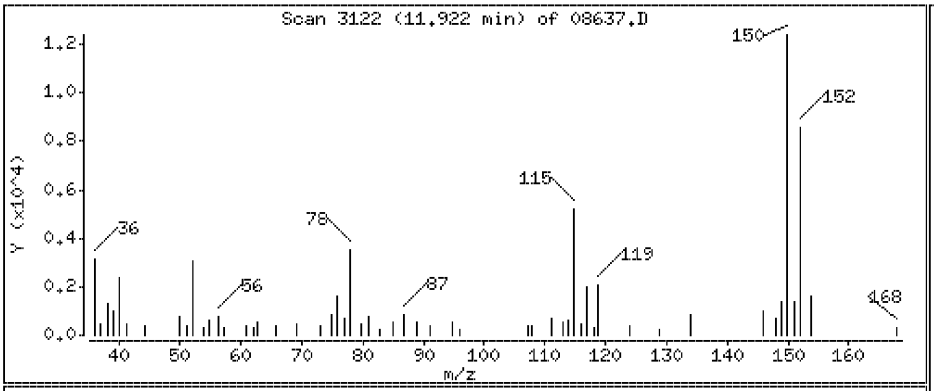
Operator: NCK

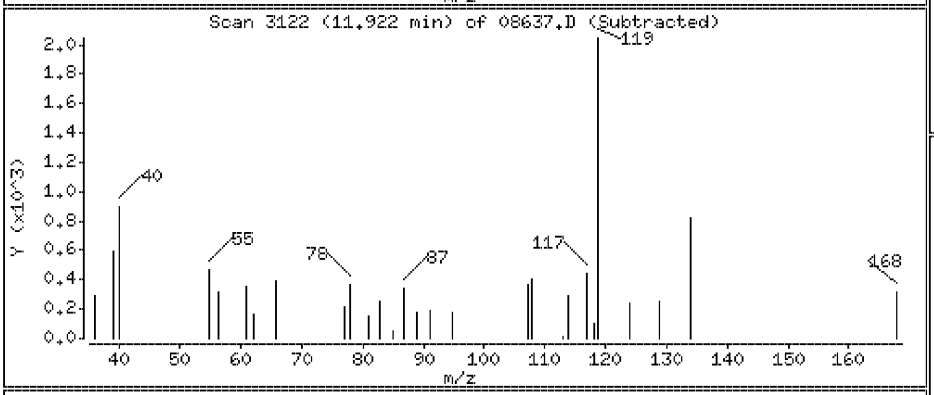
Column phase: J&W DB-5

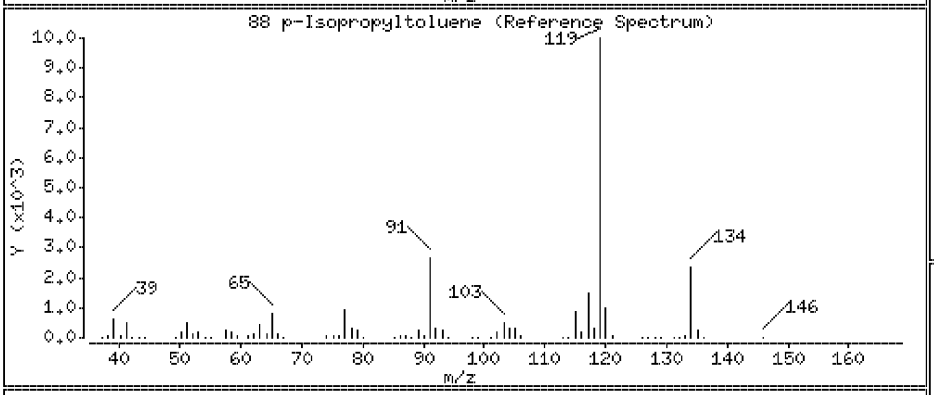
Column diameter: 0.32

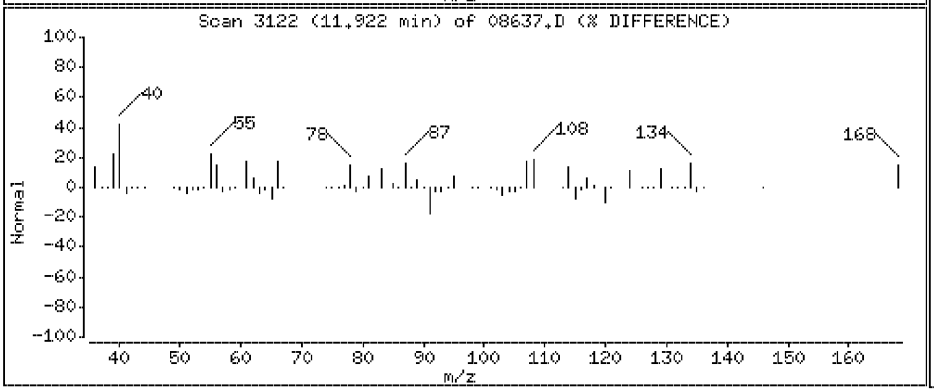
88 p-Isopropyltoluene

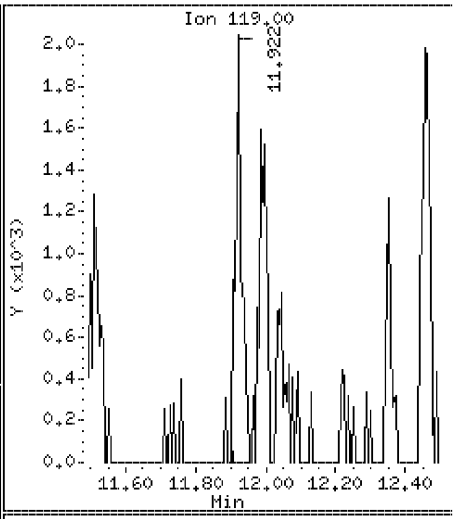
Concentration: 0.0206 ppbv

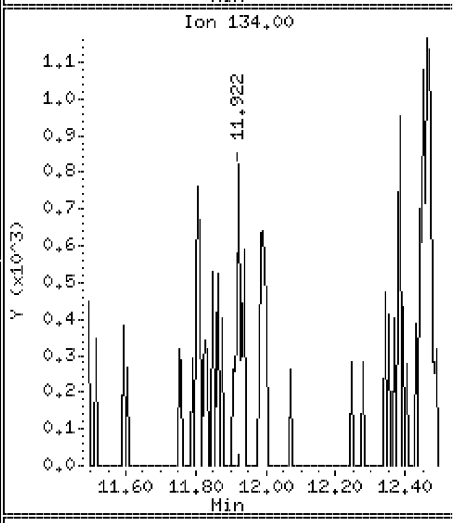


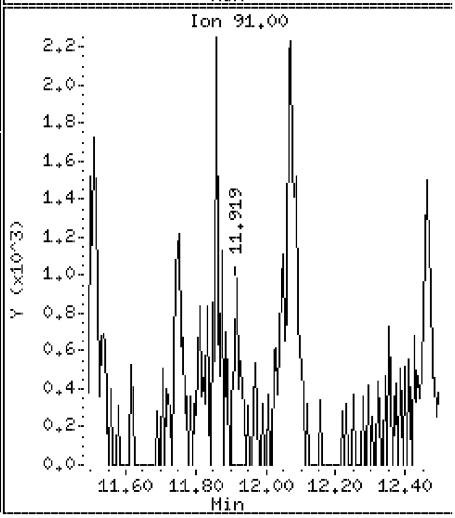












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08637.D

Date : 28-MAR-2017 03:22

Client ID:

Instrument: 10airB.i

Sample Info:

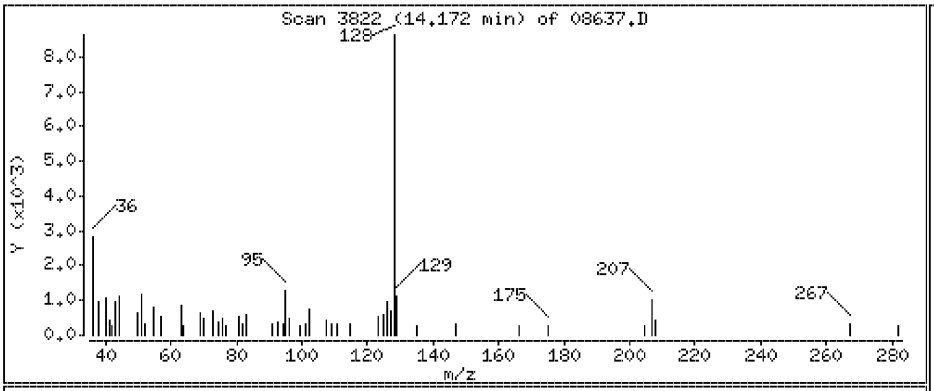
Operator: NCK

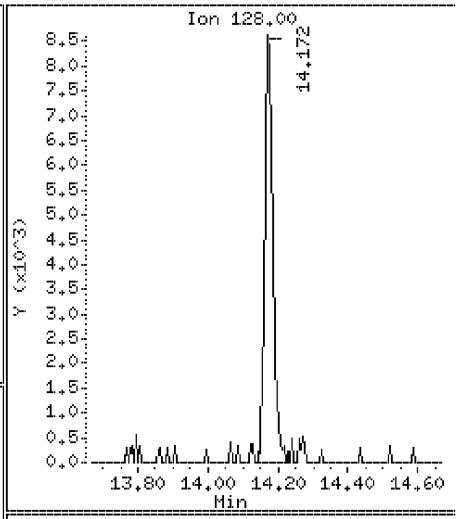
Column phase: J&W DB-5

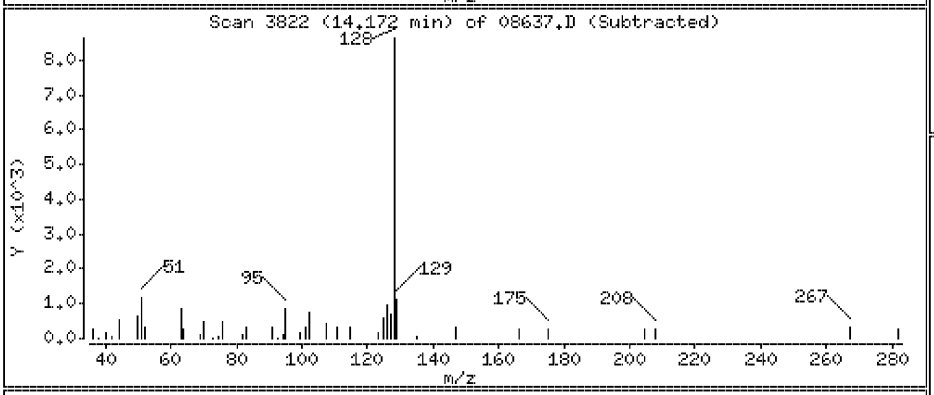
Column diameter: 0.32

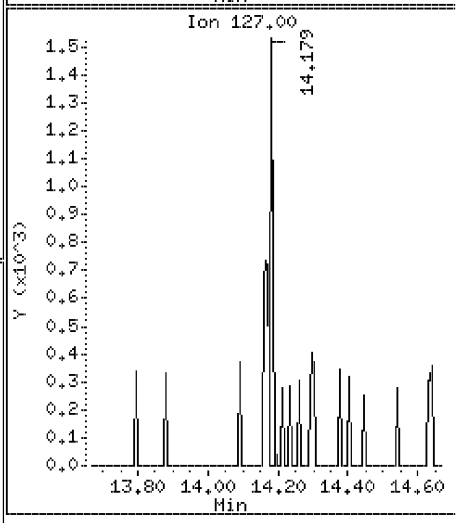
94 Naphthalene

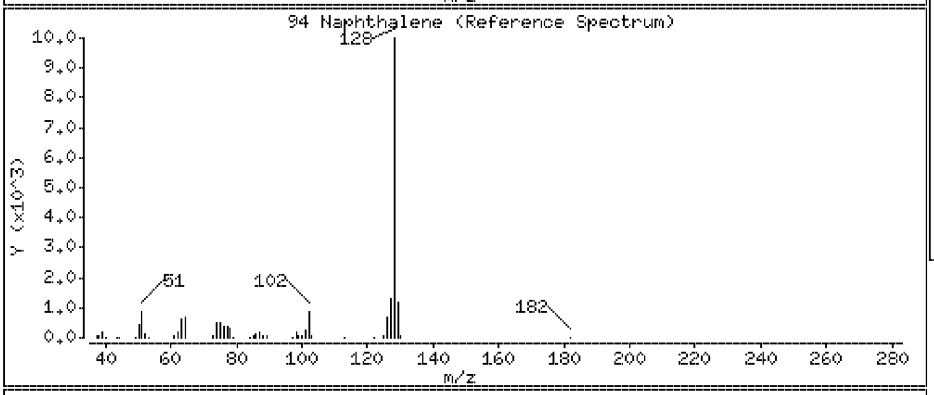
Concentration: 1.00 ppbv

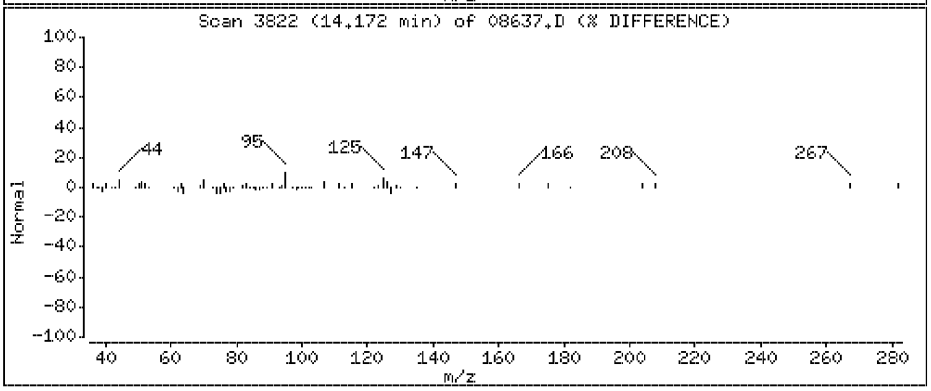






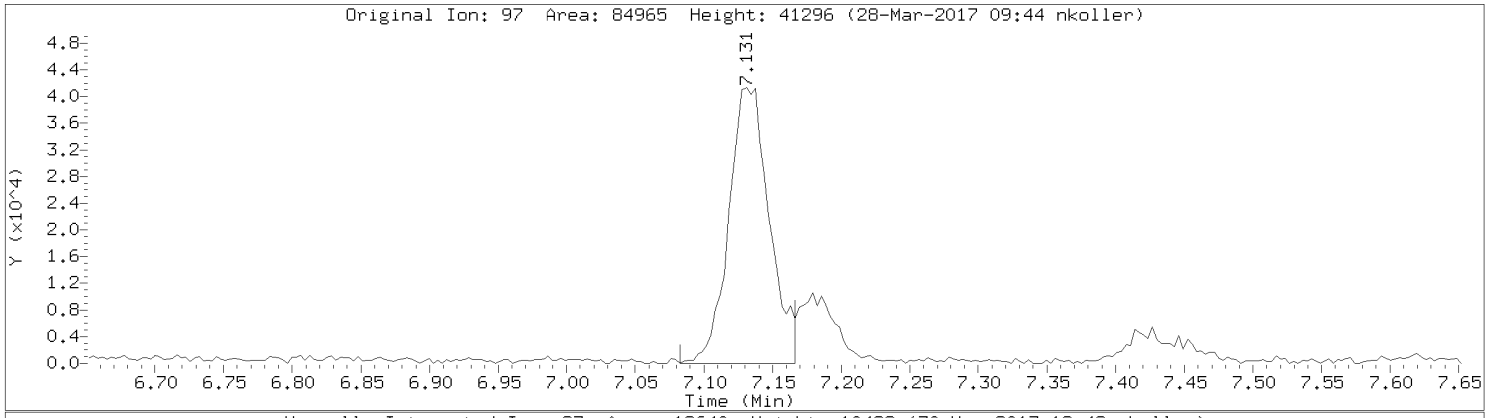


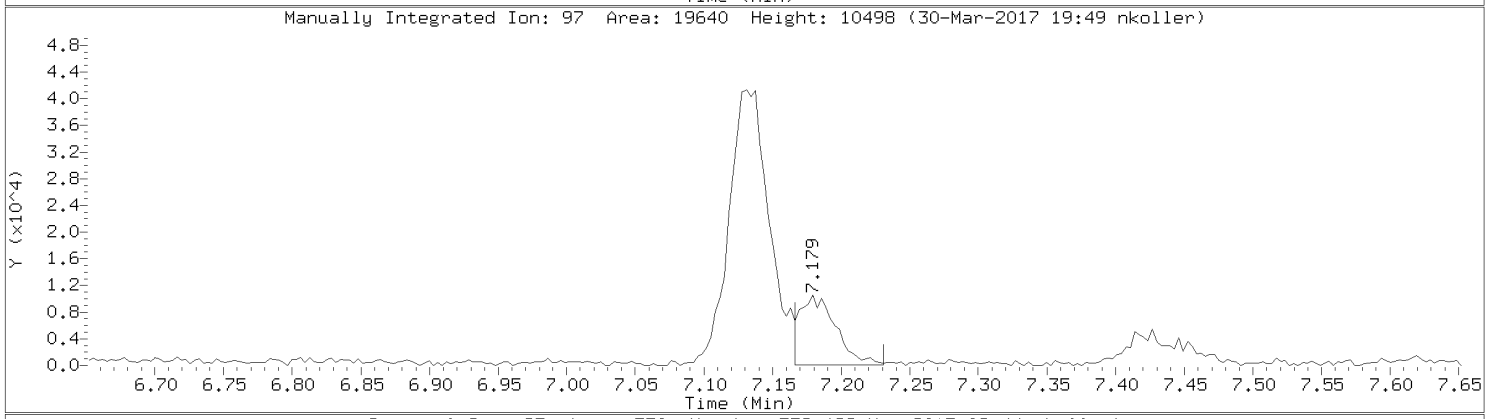


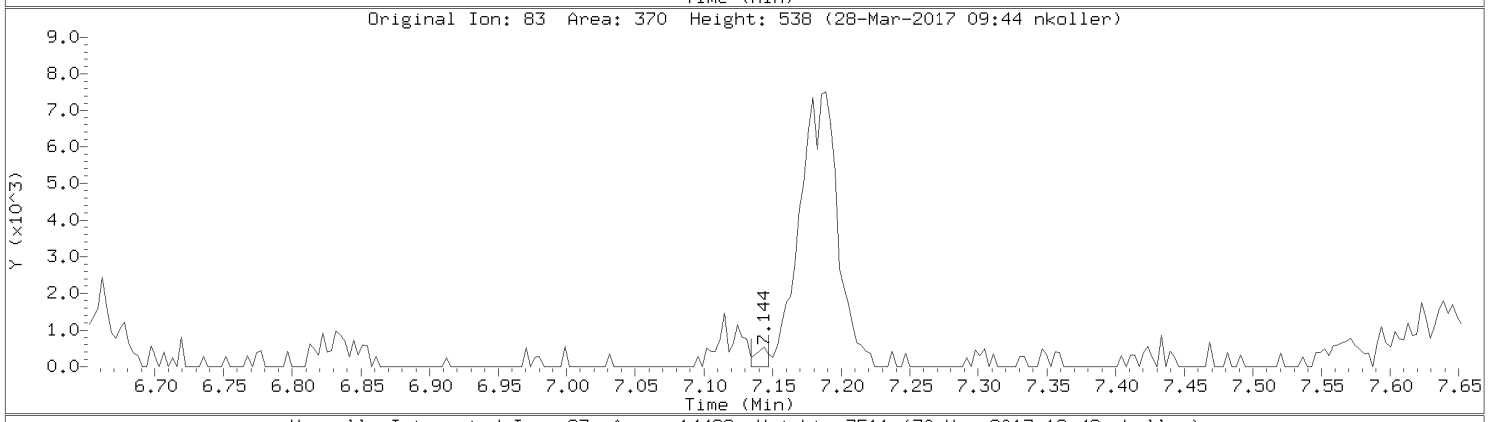


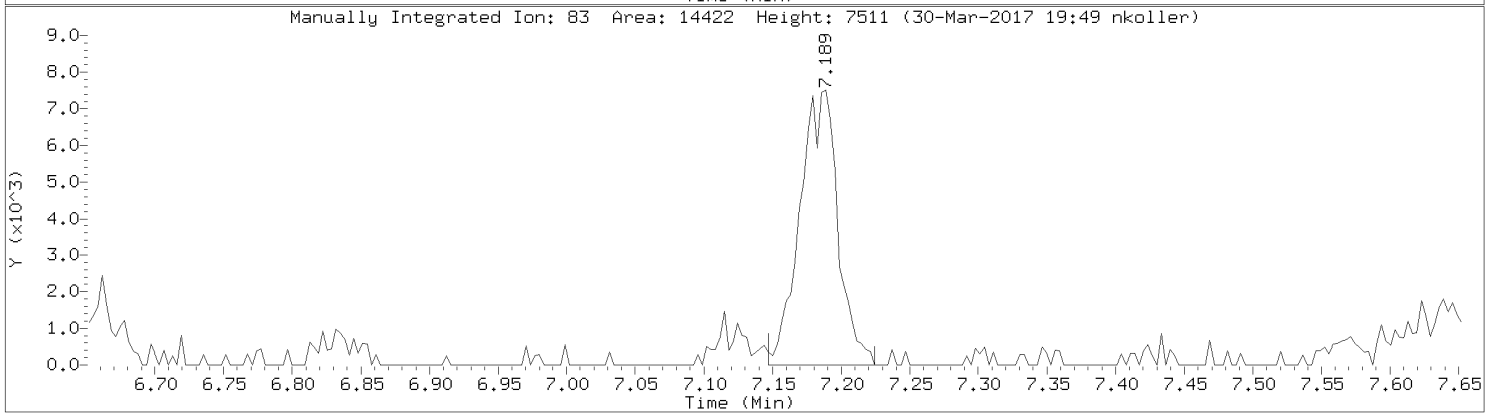
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08637.D
Injection Date: 28-MAR-2017 03:22
Instrument: 10airB.i
Lab Sample ID: 10381335002

Compound: 1,1,2-Trichloroethane
CAS Number: 79-00-5

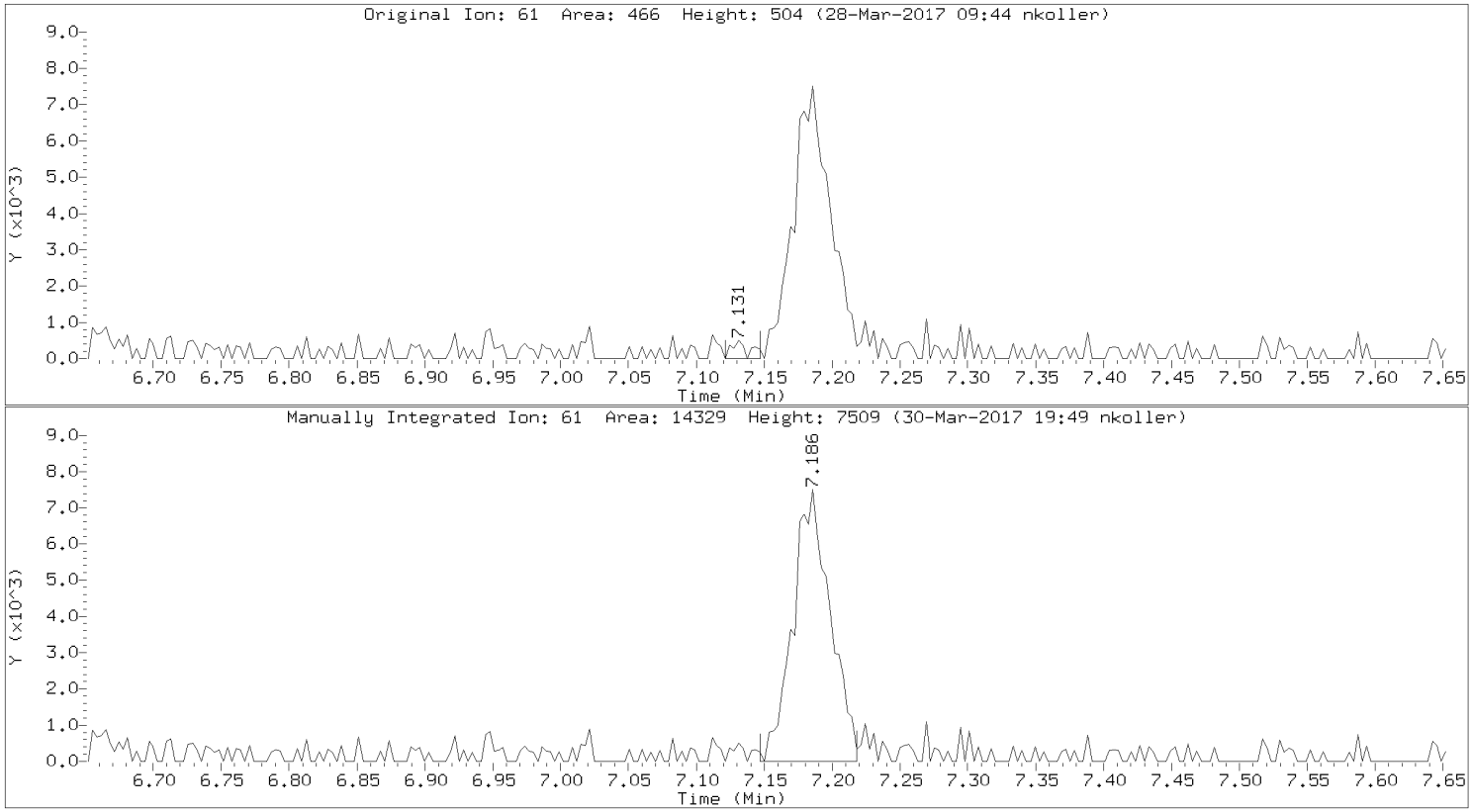






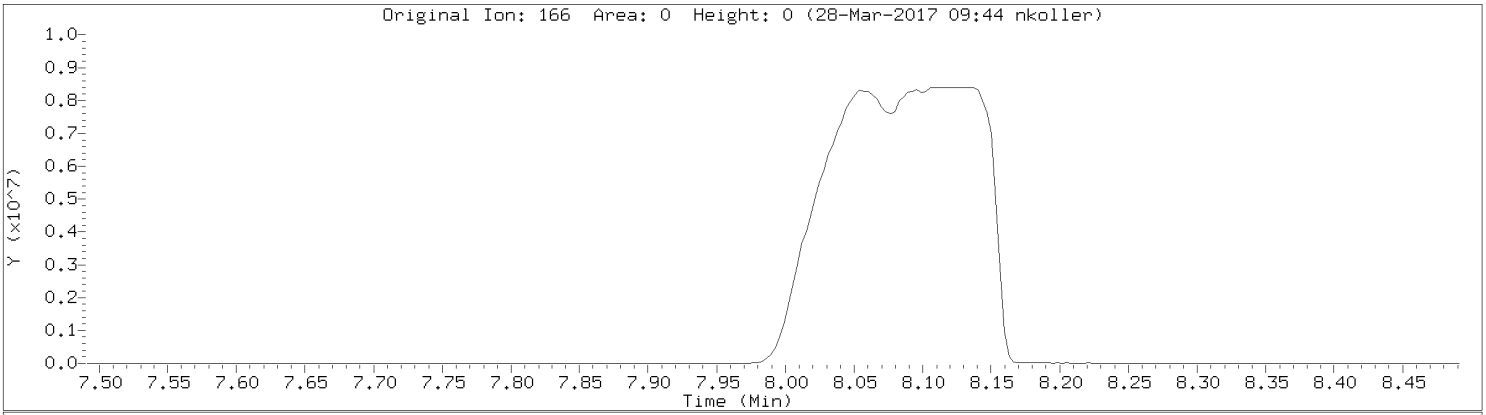


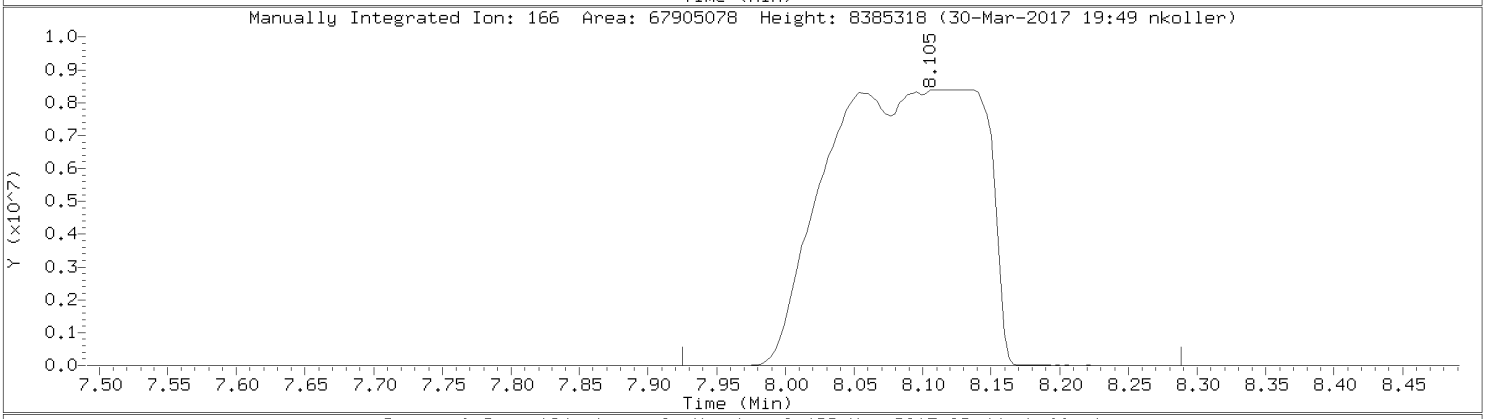
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08637.D
Injection Date: 28-MAR-2017 03:22
Instrument: 10airB.i
Lab Sample ID: 10381335002

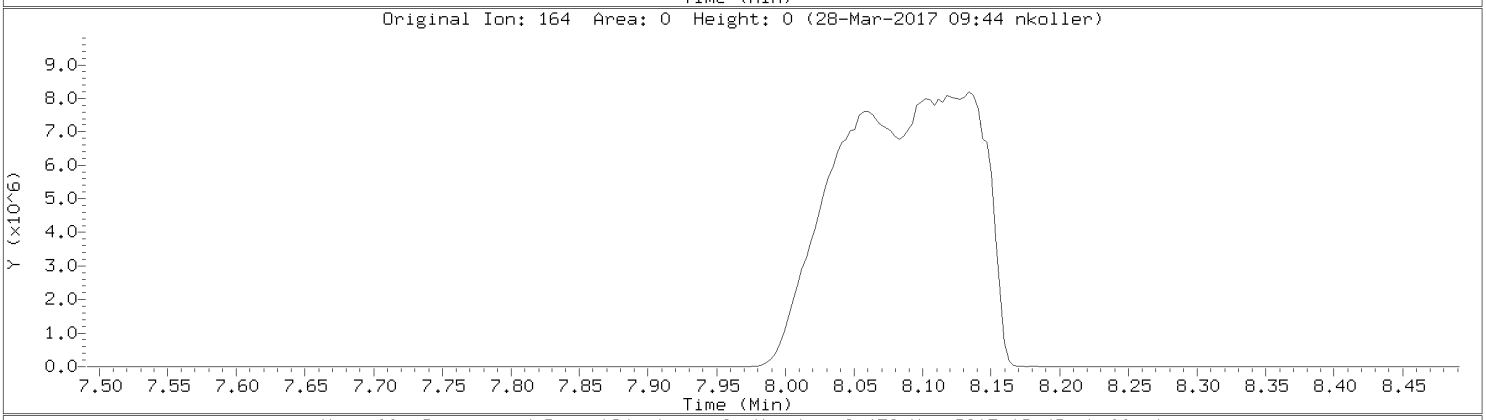


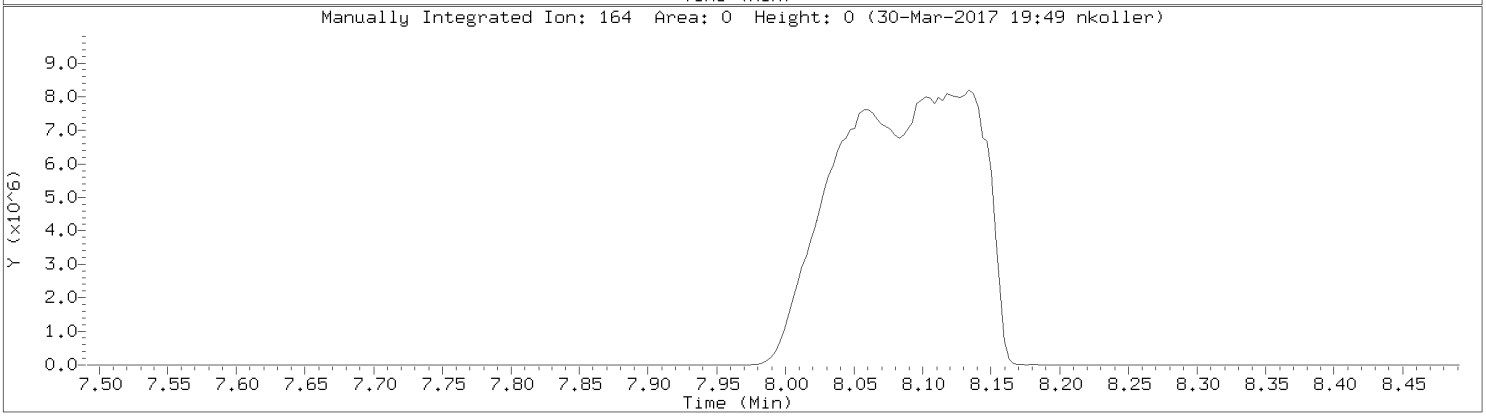
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08637.D
Injection Date: 28-MAR-2017 03:22
Instrument: 10airB.i
Lab Sample ID: 10381335002

Compound: Tetrachloroethene
CAS Number: 127-18-4

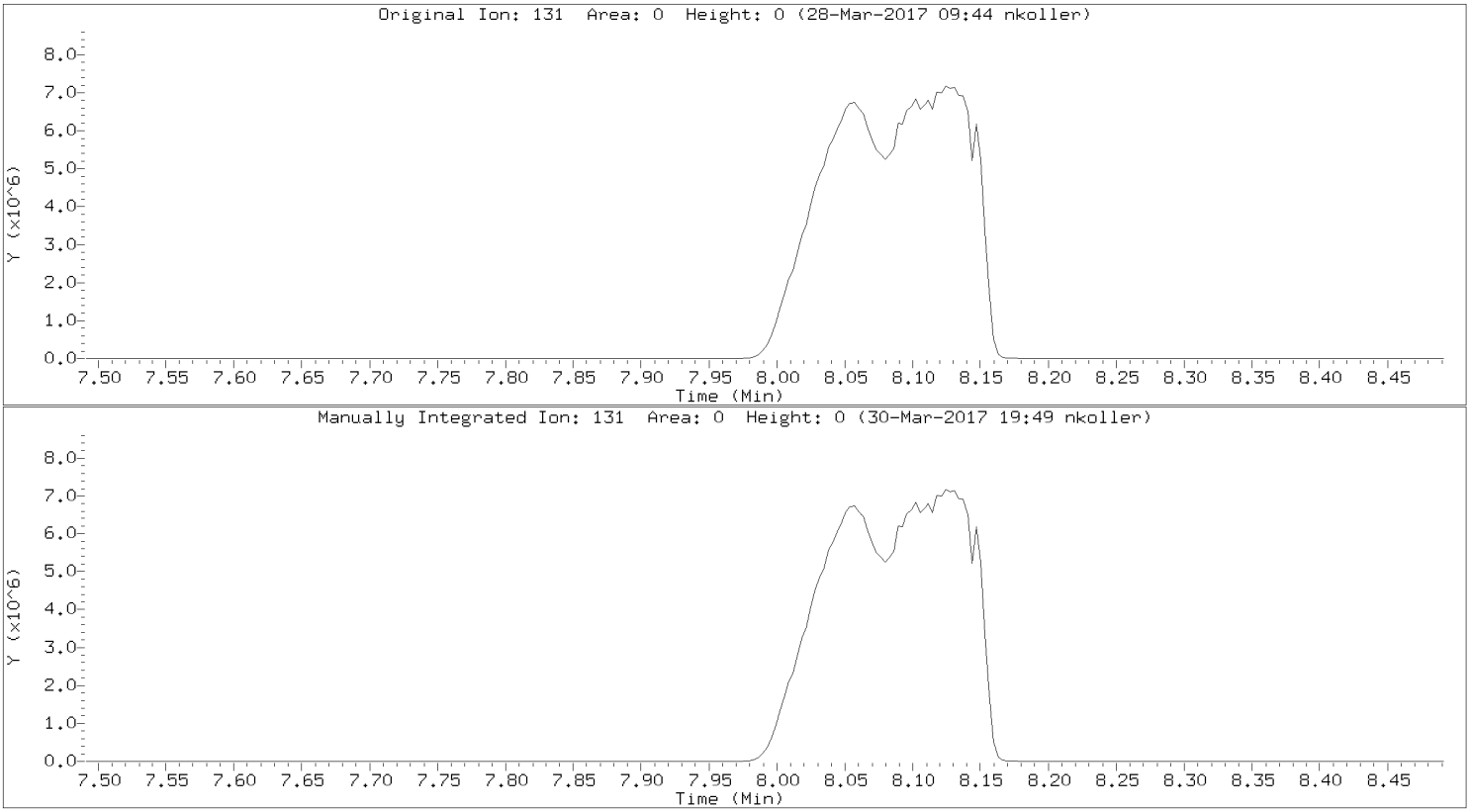






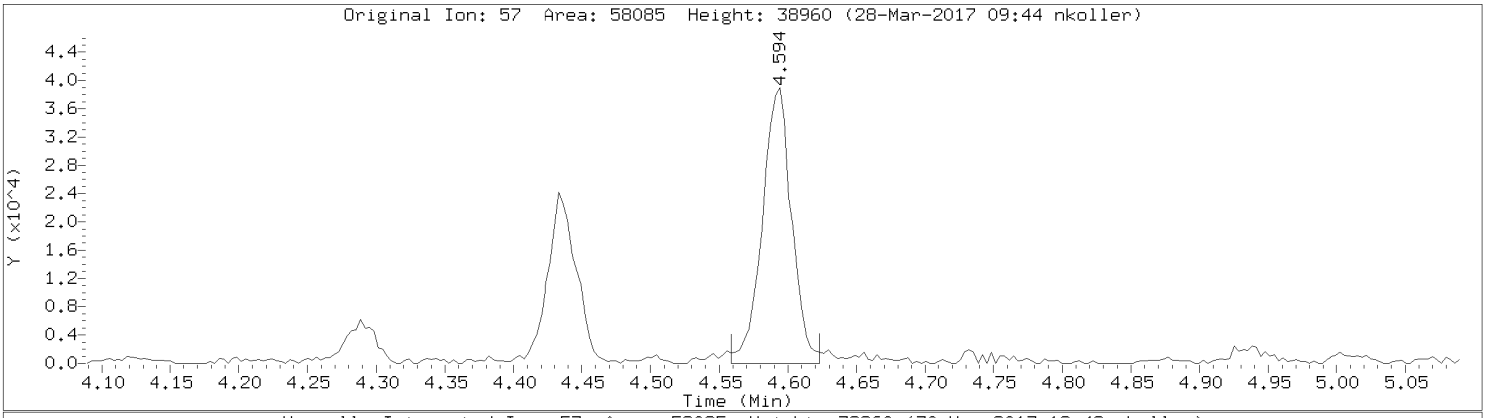


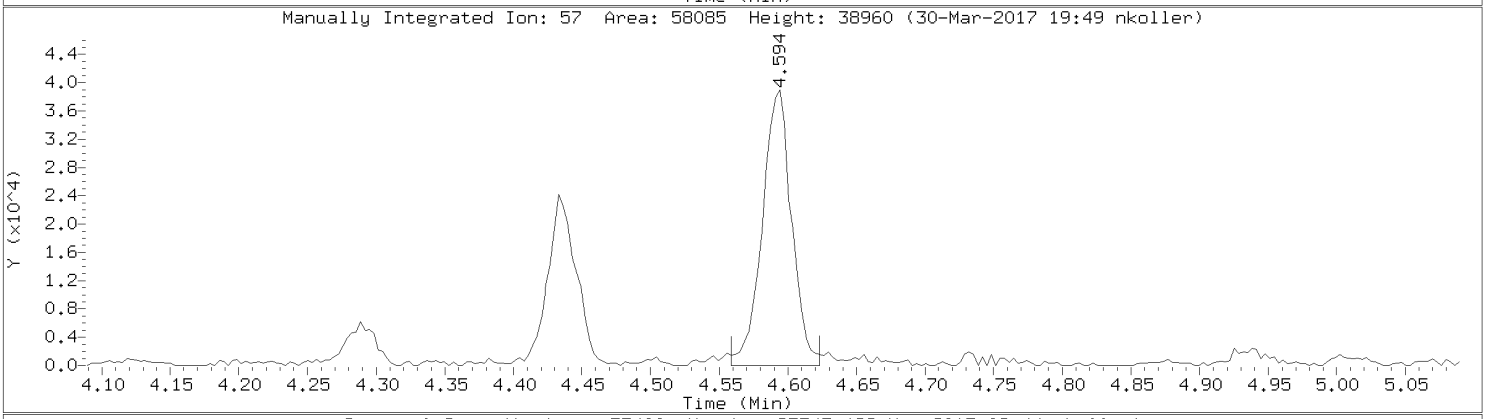
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08637.D
Injection Date: 28-MAR-2017 03:22
Instrument: 10airB.i
Lab Sample ID: 10381335002

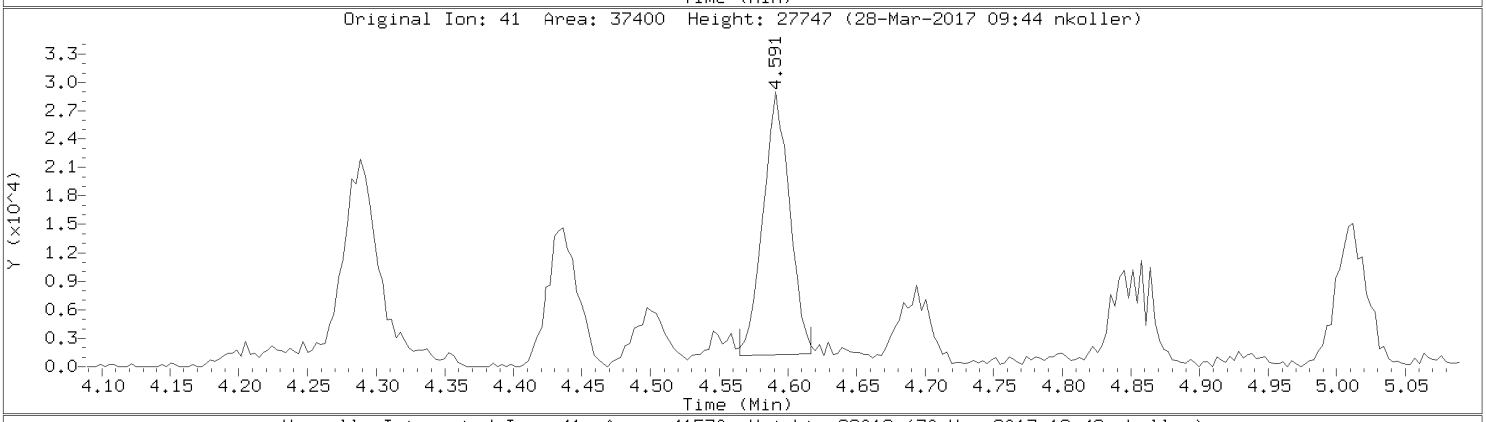


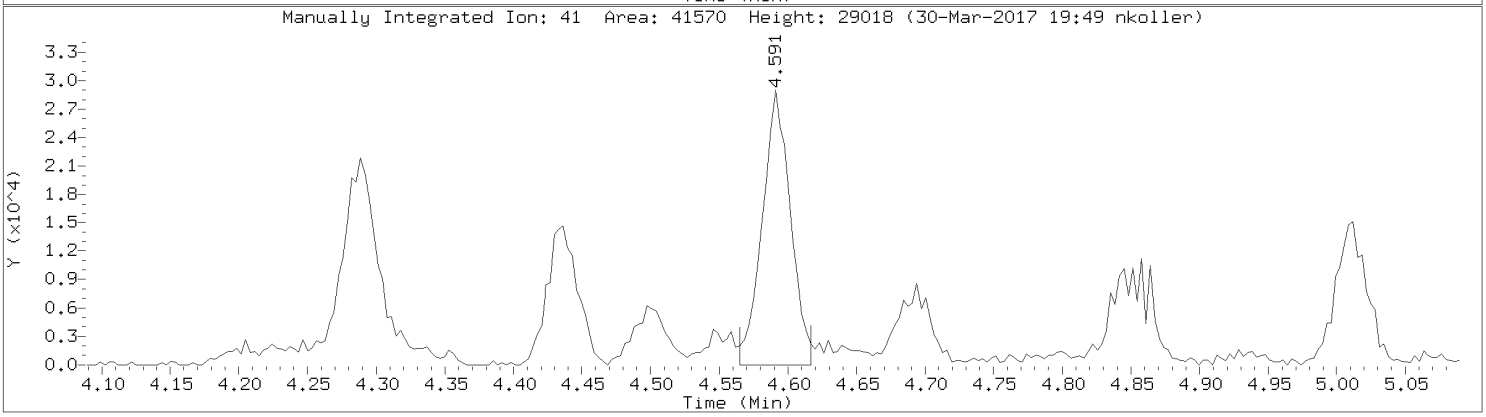
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08637.D
Injection Date: 28-MAR-2017 03:22
Instrument: 10airB.i
Lab Sample ID: 10381335002

Compound: n-Hexane
CAS Number: 110-54-3

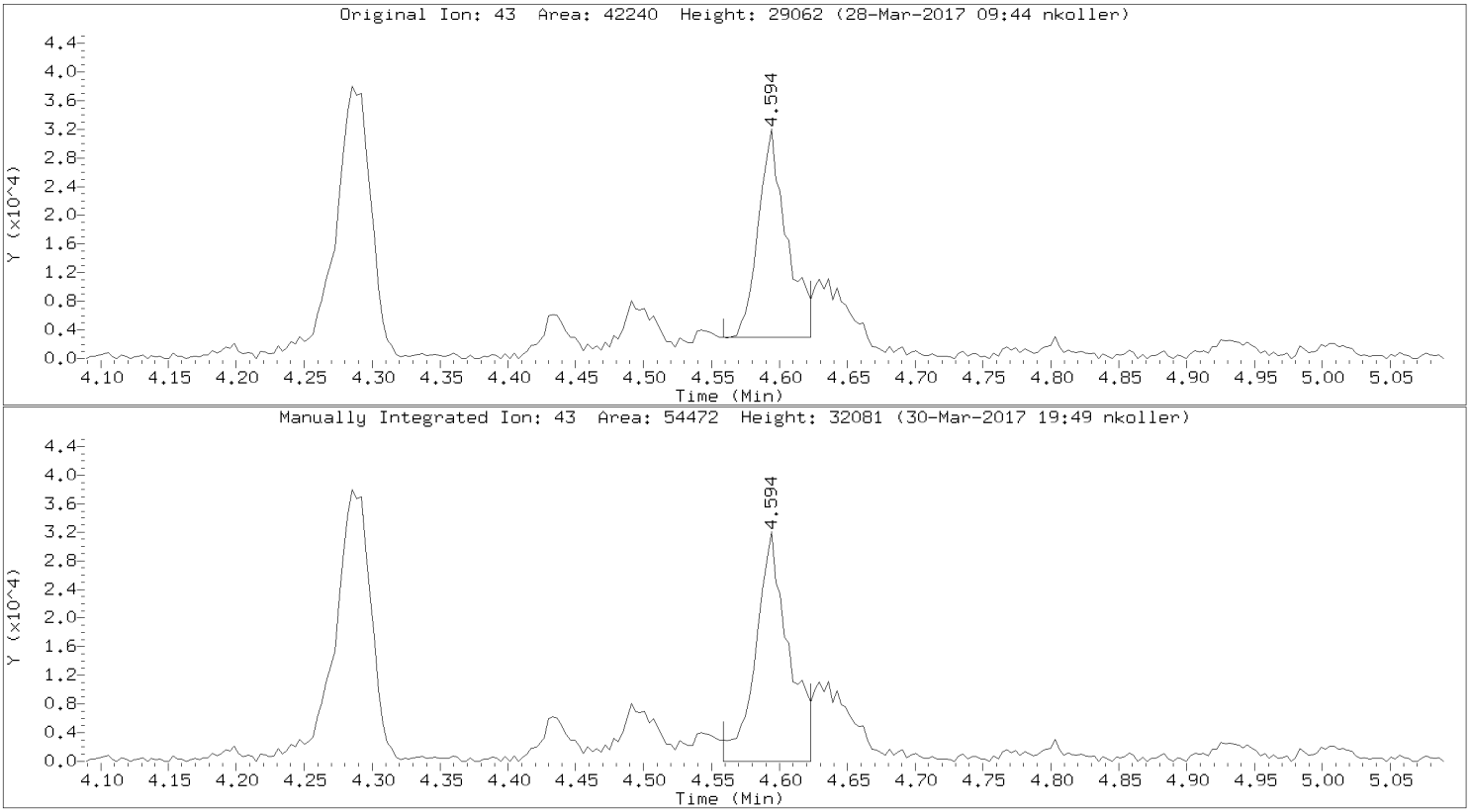






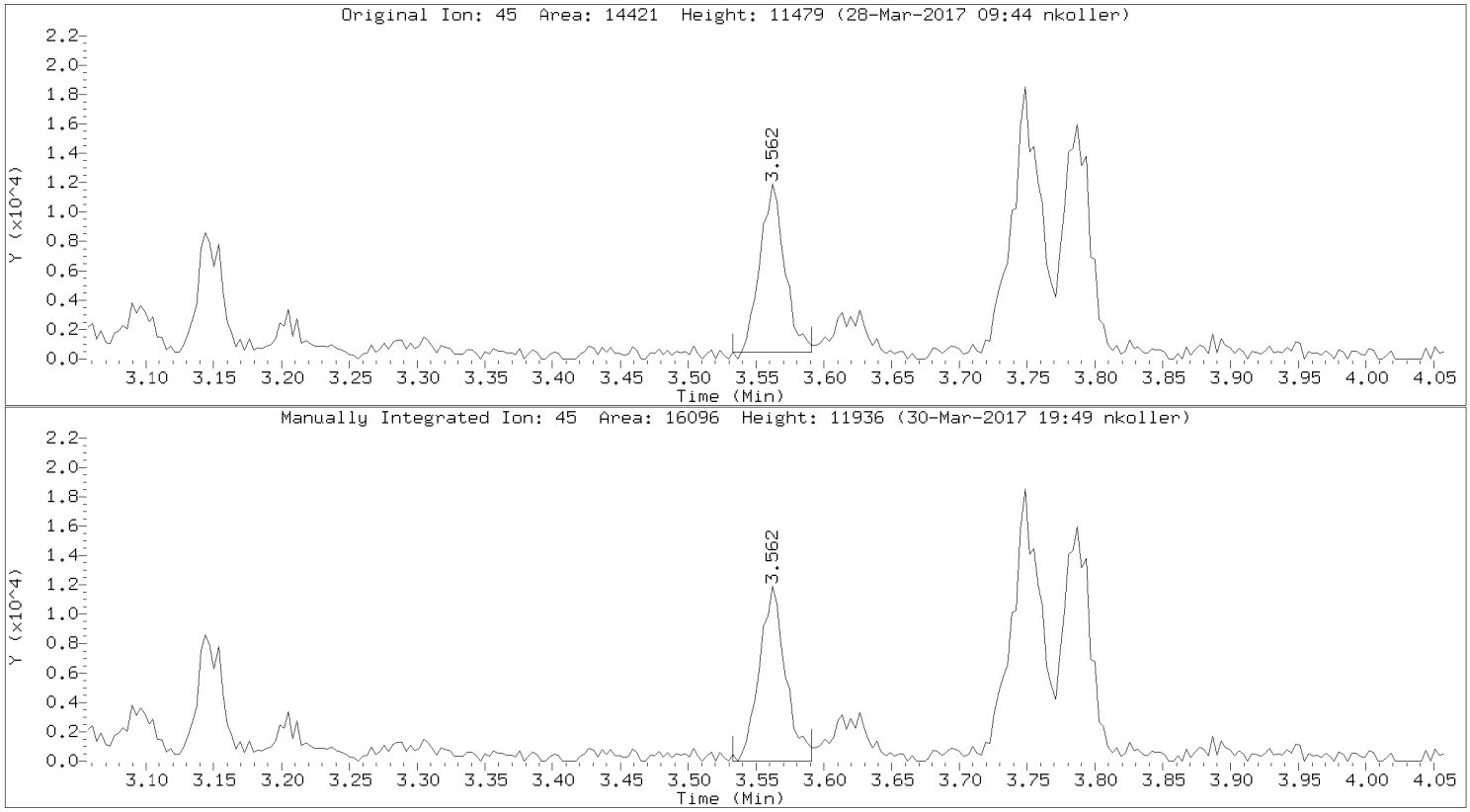


Data File: \\192.168.10.12\chem\10airB.i\032717.b/08637.D
Injection Date: 28-MAR-2017 03:22
Instrument: 10airB.i
Lab Sample ID: 10381335002



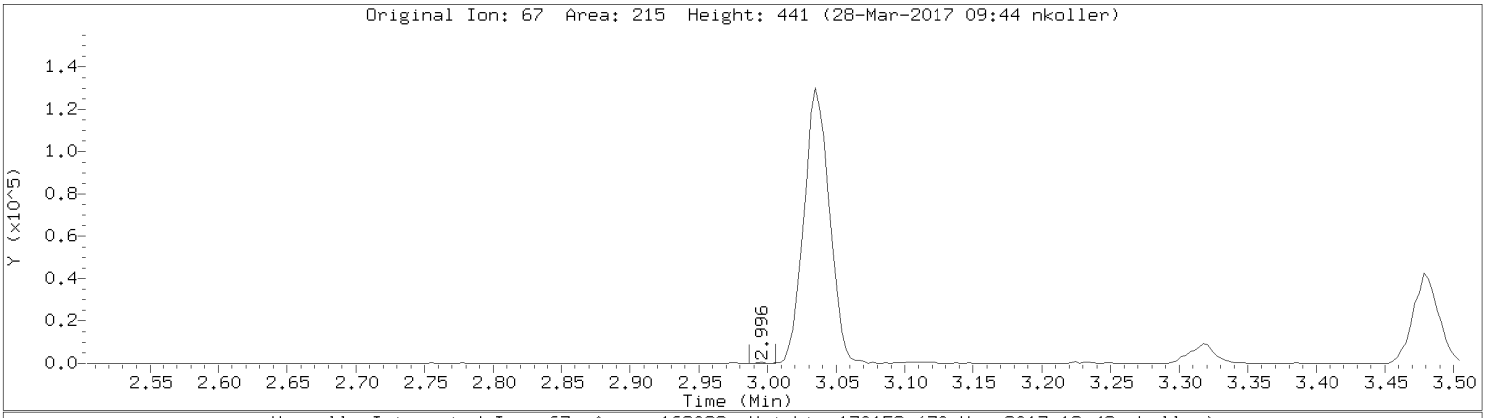
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08637.D
Injection Date: 28-MAR-2017 03:22
Instrument: 10airB.i
Lab Sample ID: 10381335002

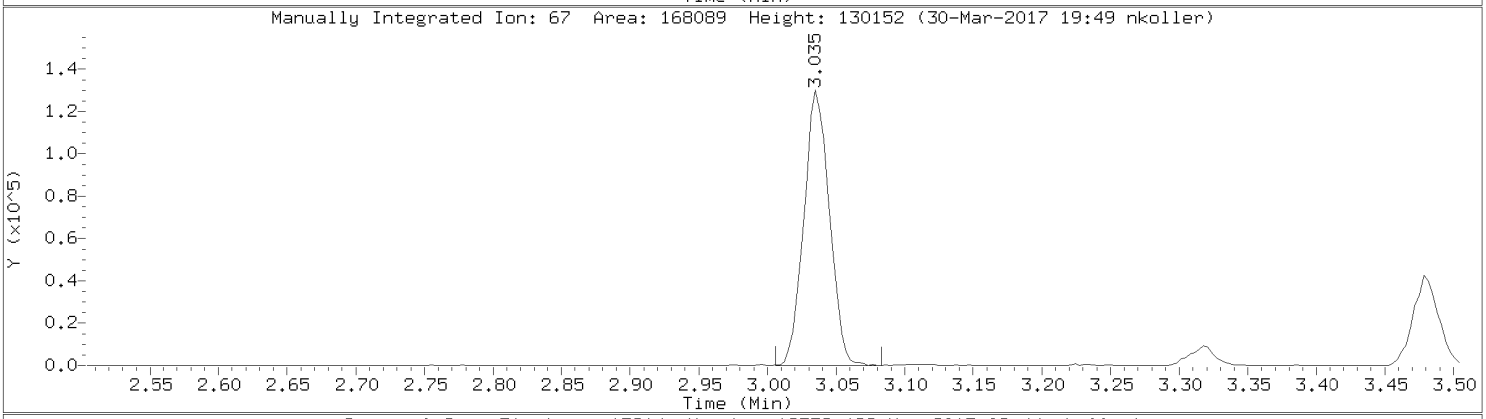
Compound: Ethanol
CAS Number: 64-17-5

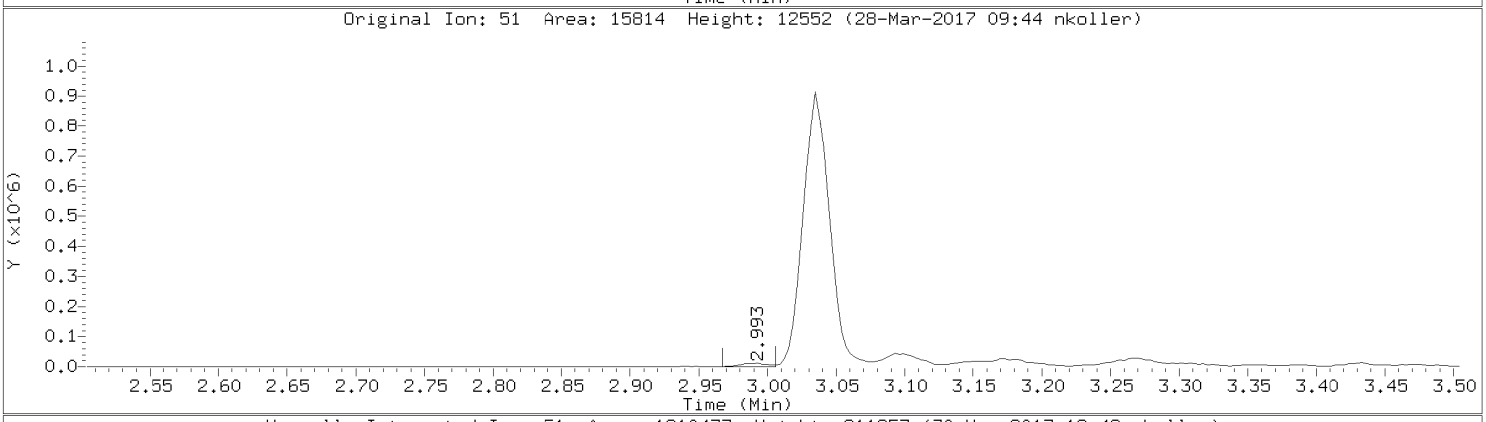


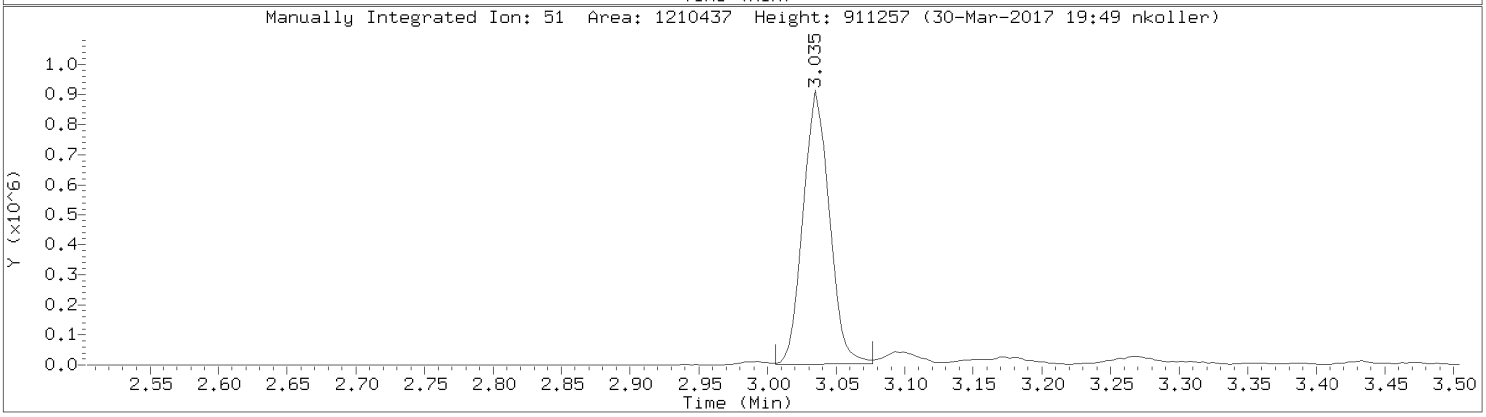
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08637.D
Injection Date: 28-MAR-2017 03:22
Instrument: 10airB.i
Lab Sample ID: 10381335002

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

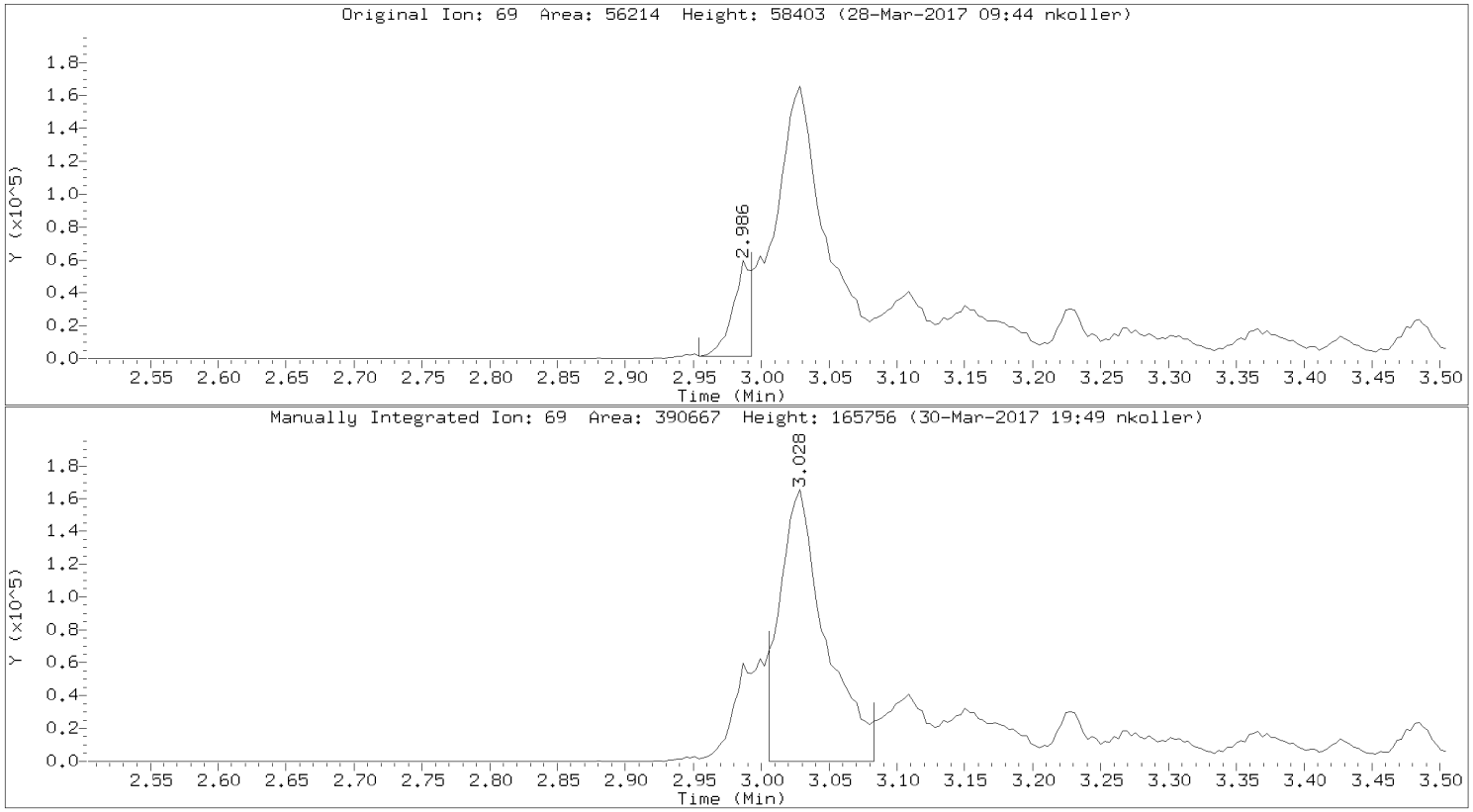








Data File: \\192.168.10.12\chem\10airB.i\032717.b/08637.D
Injection Date: 28-MAR-2017 03:22
Instrument: 10airB.i
Lab Sample ID: 10381335002



Data File: \\192.168.10.12\chem\10airB.i\032917.b\08839.D
Report Date: 30-Mar-2017 14:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032917.b\08839.D
Lab Smp Id: 10381335002
Inj Date : 30-MAR-2017 04:09
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28019
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032917.b\TO15_086-17.m
Meth Date : 29-Mar-2017 16:05 mlytle Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 39
Dil Factor: 10222.59200
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	10222.592	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08839.D
Report Date: 30-Mar-2017 14:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.488	(0.800)	890690	10.0112	10.0	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.700	4.725	(0.839)	56755	1.44267	14700(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.859)	4072	0.05218	533	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	2371711	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.989	(1.067)	835663	11.6399	119000	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1891980	9.46242	9.46	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	520717	6.10507	62400	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	1302333	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08839.D
Report Date: 30-Mar-2017 14:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.851	(1.371)	460482	7.44826	7.45	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08839.D
Report Date: 30-Mar-2017 14:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08839.D
Lab Smp Id: 10381335002
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032917.b\TO15_086-17.m
Misc Info: 28019

Calibration Date: 29-MAR-2017
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

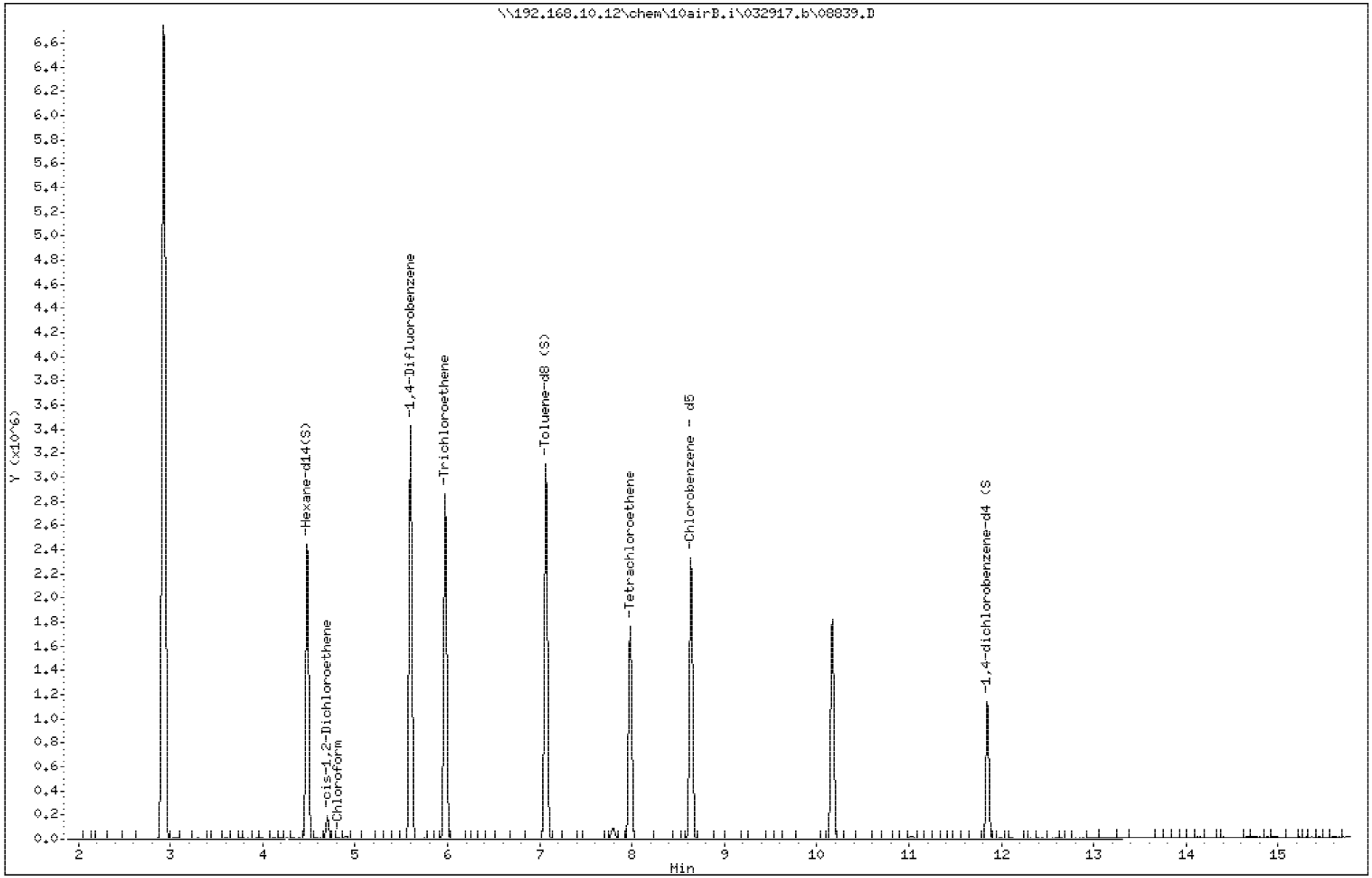
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2371711	-16.25
67 Chlorobenzene - d	1804482	1082689	2526275	1302333	-27.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08839.D
Date : 30-MAR-2017 04:09
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032917.b\08839.D

Date : 30-MAR-2017 04:09

Client ID:

Instrument: 10airB.i

Sample Info:

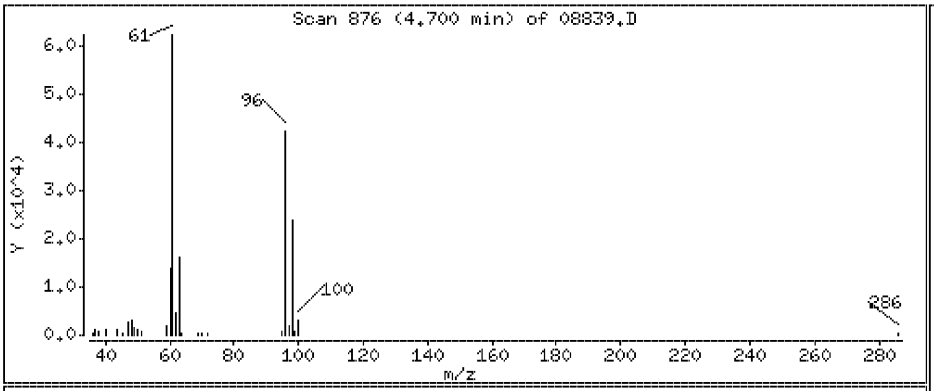
Operator: NCK

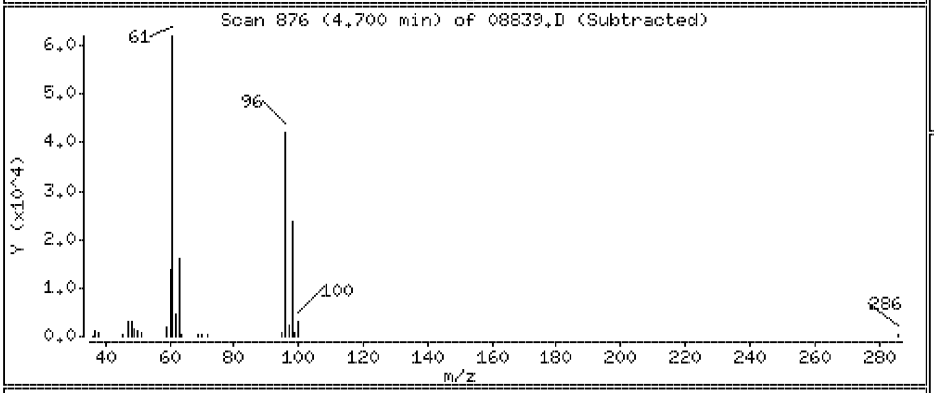
Column phase: J&W DB-5

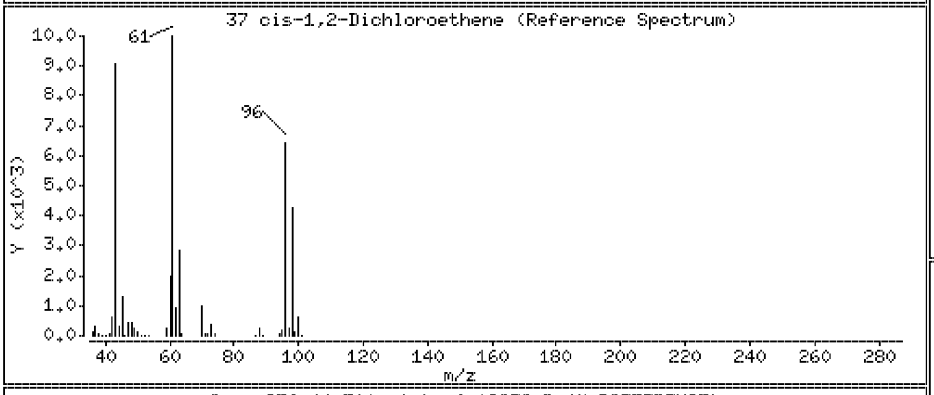
Column diameter: 0.32

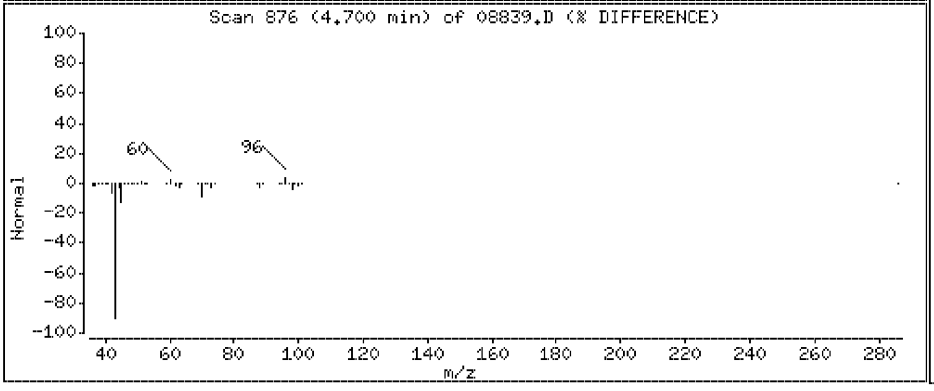
37 cis-1,2-Dichloroethene

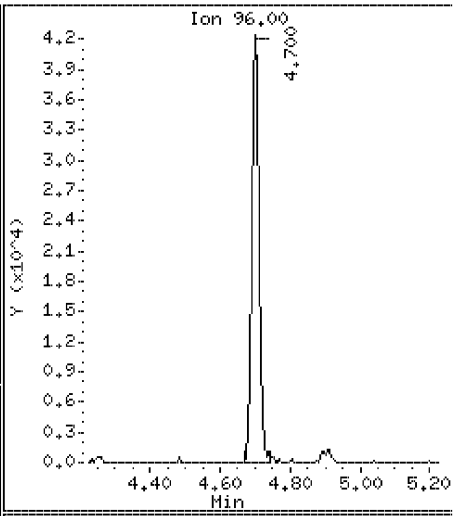
Concentration: 14700 ppbv

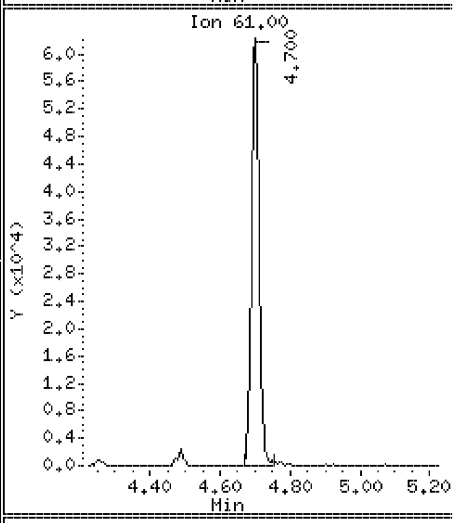


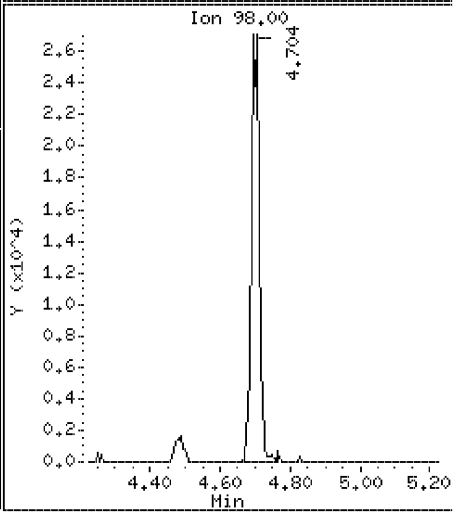












Data File: \\192.168.10.12\chem\10airB.i\032917.b\08839.D

Date : 30-MAR-2017 04:09

Client ID:

Instrument: 10airB.i

Sample Info:

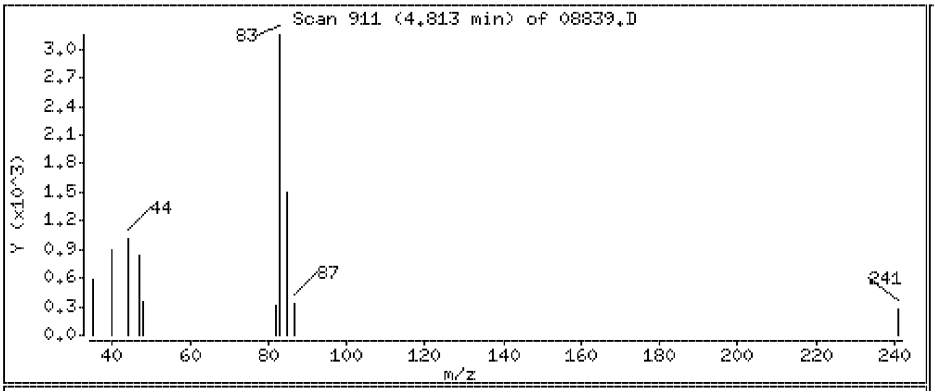
Operator: NCK

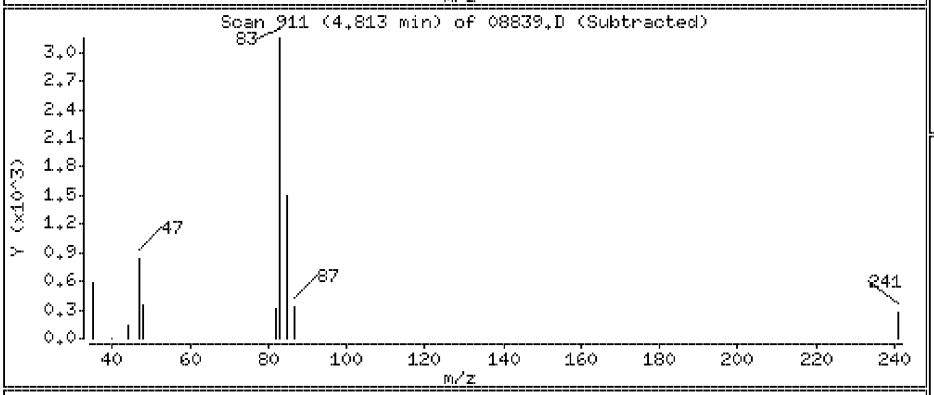
Column phase: J&W DB-5

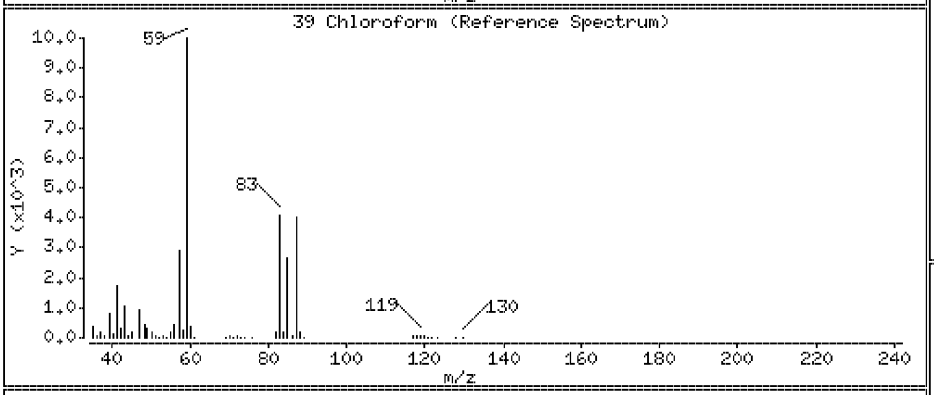
Column diameter: 0.32

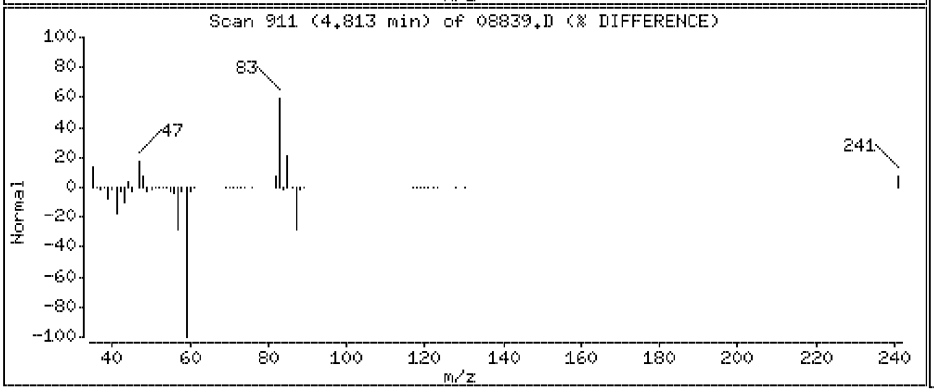
39 Chloroform

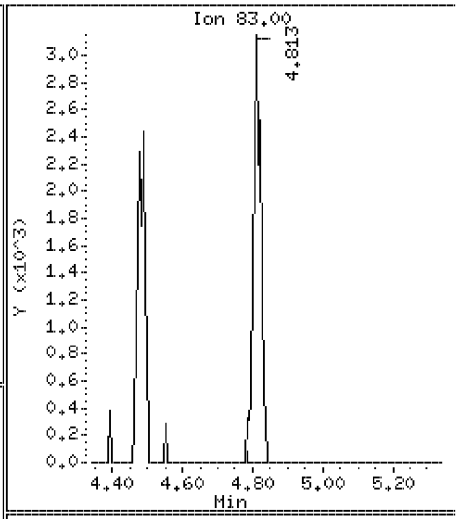
Concentration: 533 ppbv

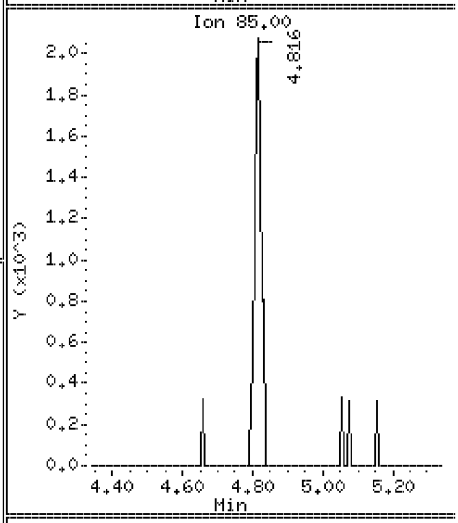


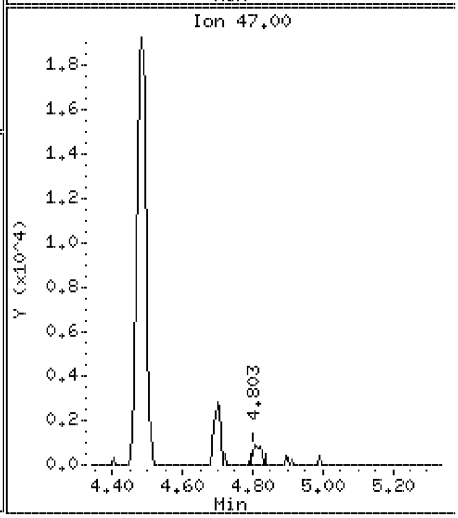












Data File: \\192.168.10.12\chem\10airB.i\032917.b\08839.D

Date : 30-MAR-2017 04:09

Client ID:

Instrument: 10airB.i

Sample Info:

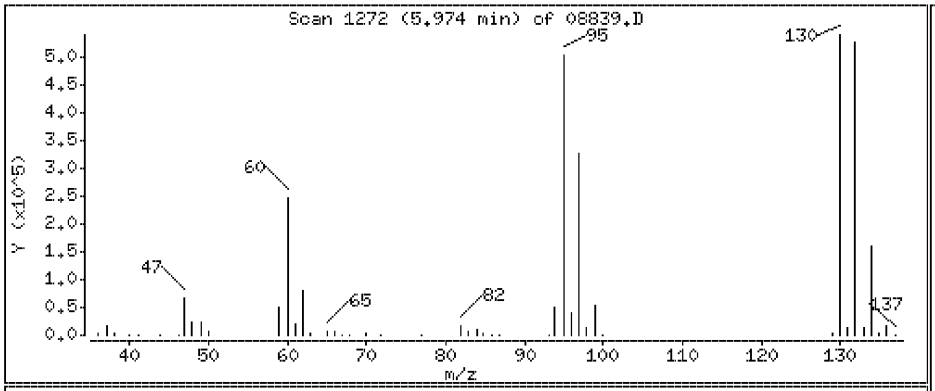
Operator: NCK

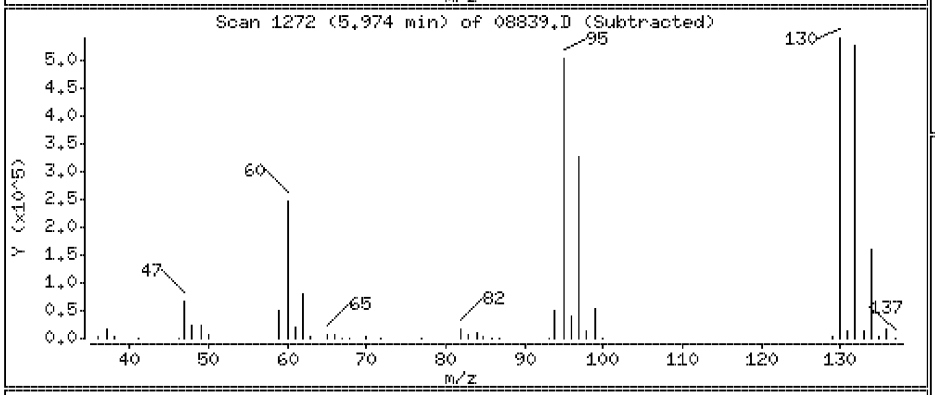
Column phase: J&W DB-5

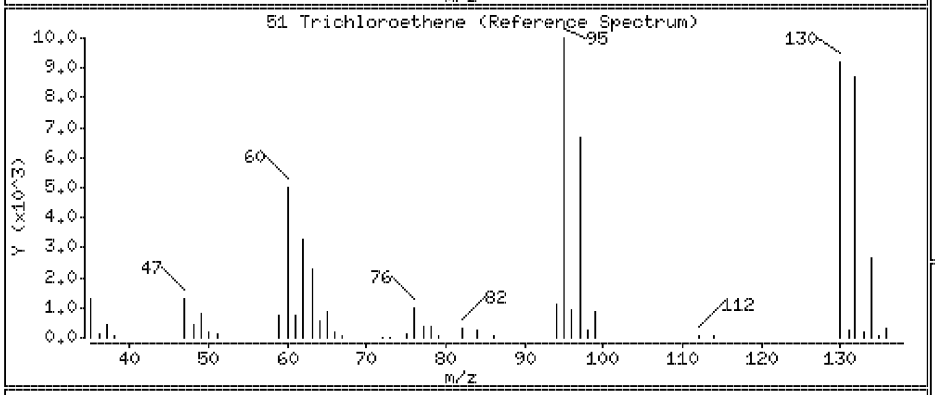
Column diameter: 0.32

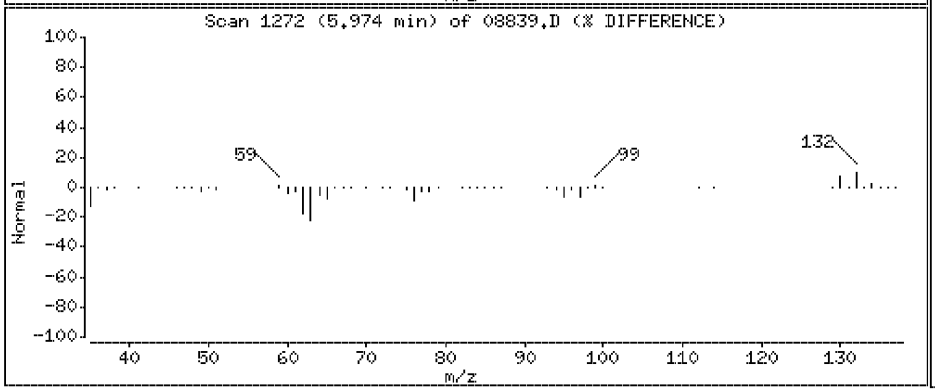
51 Trichloroethene

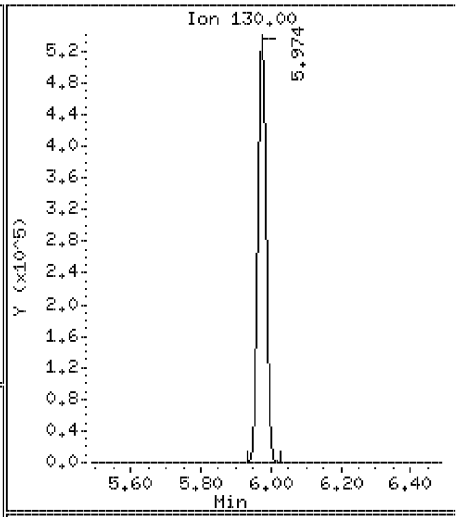
Concentration: 119000 ppbv

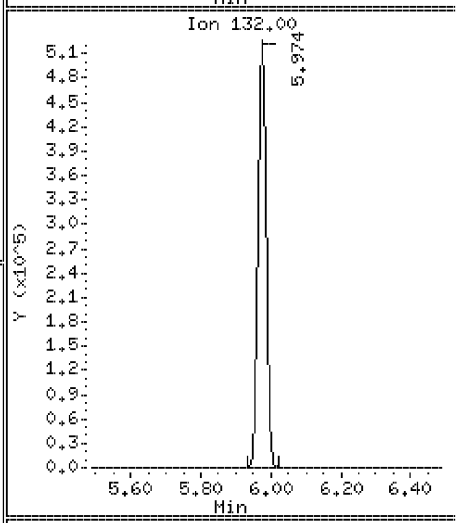


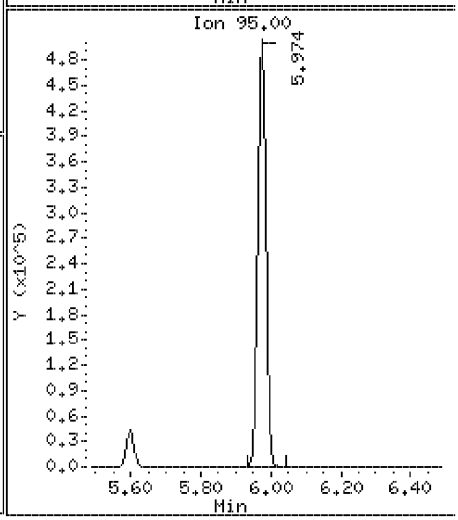












Data File: \\192.168.10.12\chem\10airB.i\032917.b\08839.D

Date : 30-MAR-2017 04:09

Client ID:

Instrument: 10airB.i

Sample Info:

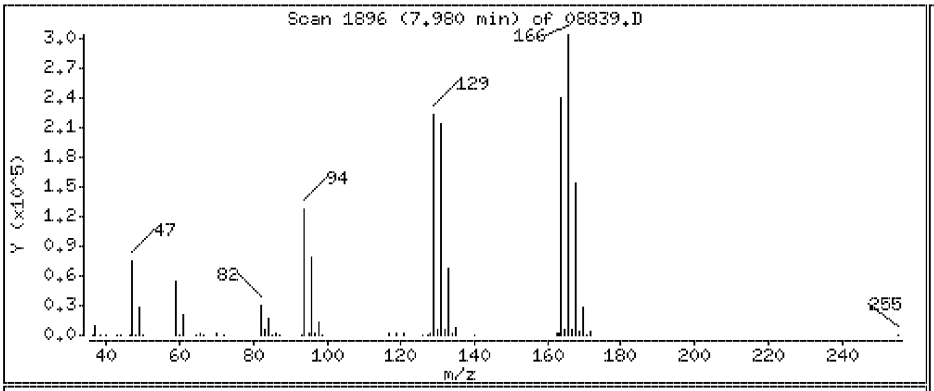
Operator: NCK

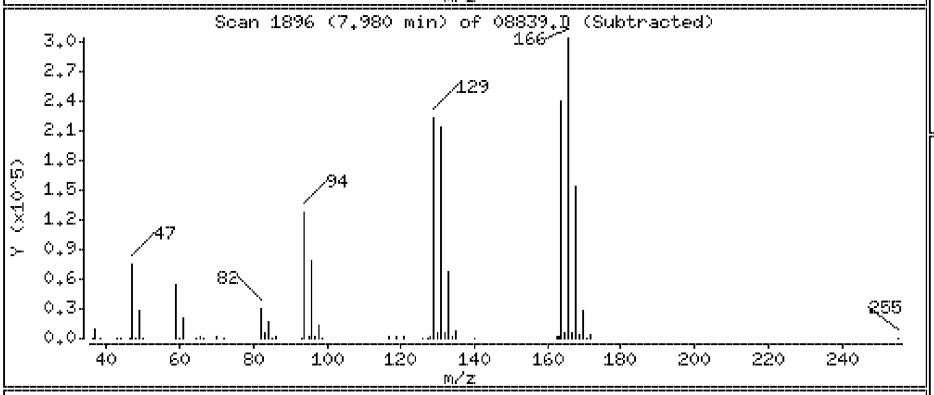
Column phase: J&W DB-5

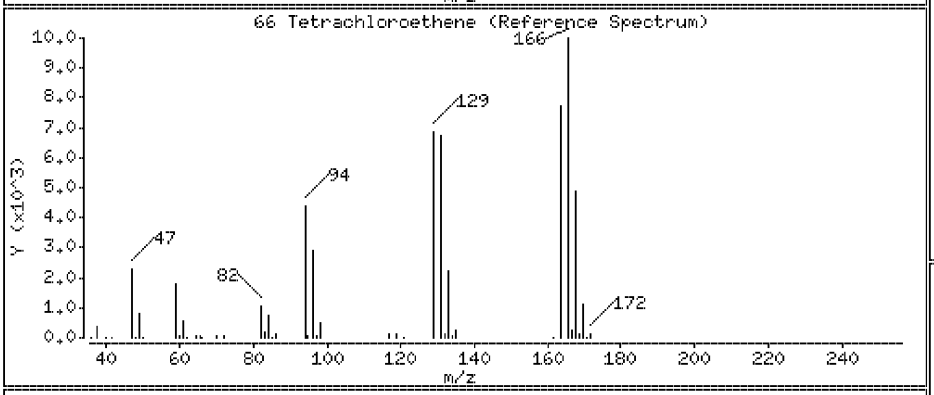
Column diameter: 0.32

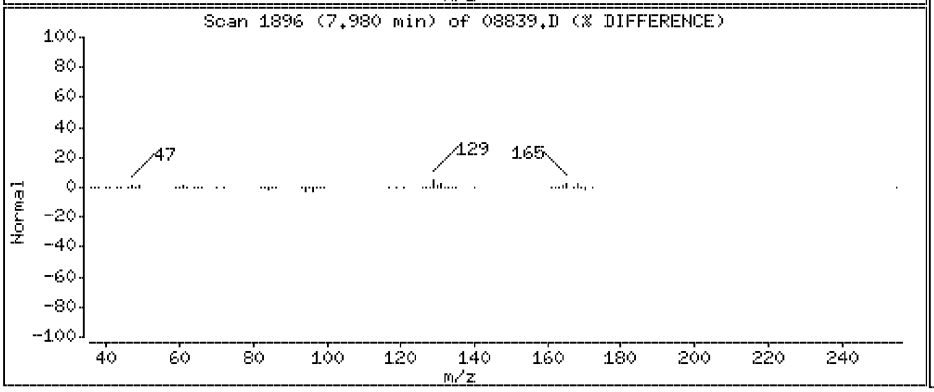
66 Tetrachloroethene

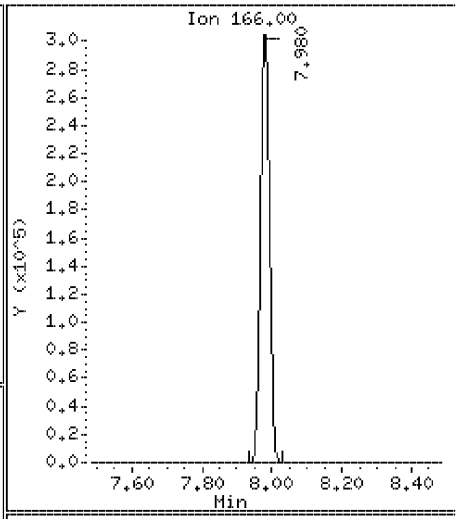
Concentration: 62400 ppbv

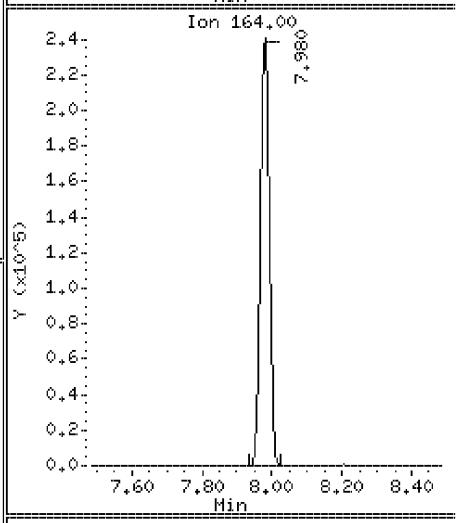


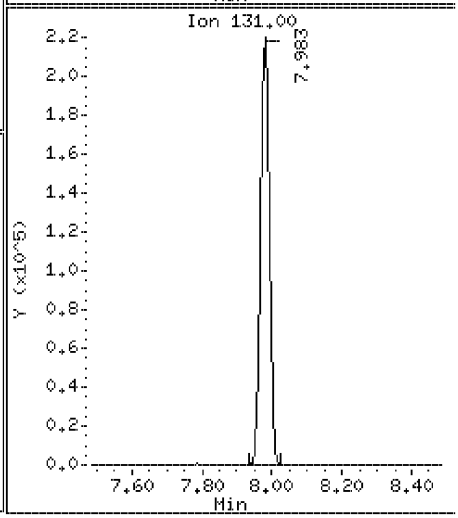












Data File: \\192.168.10.12\chem\10airB.i\032917.b/08839.D
Injection Date: 30-MAR-2017 04:09
Instrument: 10airB.i
Lab Sample ID: 10381335002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: L15-VP-7_30_20170306 **Lab ID: 10381335002** Collected: 03/06/17 14:08 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/28/17 03:22	95-47-6	

Sample: VP-107_5_20170306 **Lab ID: 10381335003** Collected: 03/06/17 13:08 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**5.6**	ug/m3	4.4	1.5	1.83		03/28/17 03:53	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/28/17 03:53	107-05-1	
Benzene	**0.88**	ug/m3	0.59	0.22	1.83		03/28/17 03:53	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/28/17 03:53	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/28/17 03:53	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/28/17 03:53	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/28/17 03:53	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/28/17 03:53	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/28/17 03:53	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/28/17 03:53	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/28/17 03:53	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/28/17 03:53	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/28/17 03:53	75-00-3	
Chloroform	**0.72J**	ug/m3	0.91	0.35	1.83		03/28/17 03:53	67-66-3	
Chloromethane	**1.2**	ug/m3	0.77	0.20	1.83		03/28/17 03:53	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/28/17 03:53	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/28/17 03:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/28/17 03:53	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/28/17 03:53	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/28/17 03:53	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/28/17 03:53	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/28/17 03:53	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/28/17 03:53	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	0.88	1.83		03/28/17 03:53	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/28/17 03:53	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/28/17 03:53	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/28/17 03:53	75-35-4	
cis-1,2-Dichloroethene	**15.4**	ug/m3	1.5	0.45	1.83		03/28/17 03:53	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/28/17 03:53	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/28/17 03:53	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/28/17 03:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	4.2	0.48	1.83		03/28/17 03:53	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/28/17 03:53	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/28/17 03:53	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/28/17 03:53	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/28/17 03:53	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/28/17 03:53	622-96-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D
Report Date: 30-Mar-2017 19:50

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08638.D
Lab Smp Id: 10381335003
Inj Date : 28-MAR-2017 03:53
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28019
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 30-Mar-2017 19:28 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 38
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.044	(0.546)	40769	0.30513	0.558	
6	Chloromethane	50	3.150	3.147	(0.563)	16983	0.30819	0.564	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.552	3.558	(0.635)	25694	1.59647	2.92	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.578	3.606	(0.639)	12759	0.27858	0.510	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.658	3.680	(0.654)	12362	0.13218	0.242	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.729	3.735	(0.666)	80377	1.26747	2.32	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.935	3.957	(0.703)	7744	0.10311	0.189	
23	Methyl Acetate	43	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D
Report Date: 30-Mar-2017 19:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	3.983	4.015	(0.712)	50365	1.03602	1.90(H)	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.436	4.404	(0.793)	12880	0.12075	0.221	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.494	(0.801)	854517	9.38471	9.38	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.574	4.590	(0.817)	13055	0.18181	0.333(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.700	4.738	(0.840)	83908	2.08406	3.81(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.816	4.854	(0.860)	6301	0.07889	0.144	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.455	5.478	(0.975)	20642	0.14744	0.270	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.622	(1.000)	2427274	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.973	5.999	(1.067)	1351746	18.3974	33.7	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.082	(1.263)	2046349	10.0002	10.0	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.143	7.163	(1.276)	41684	0.24467	0.448	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.992	(0.924)	899936	9.04177	16.5	
*	67 Chlorobenzene - d5	117	8.639	8.648	(1.000)	1519740	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D
Report Date: 30-Mar-2017 19:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.857	(1.372)	668056	9.25993	9.26	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.169	(1.641)	2342	0.36339	0.665	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D
Report Date: 30-Mar-2017 19:50

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08638.D
Lab Smp Id: 10381335003
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info: 28019

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

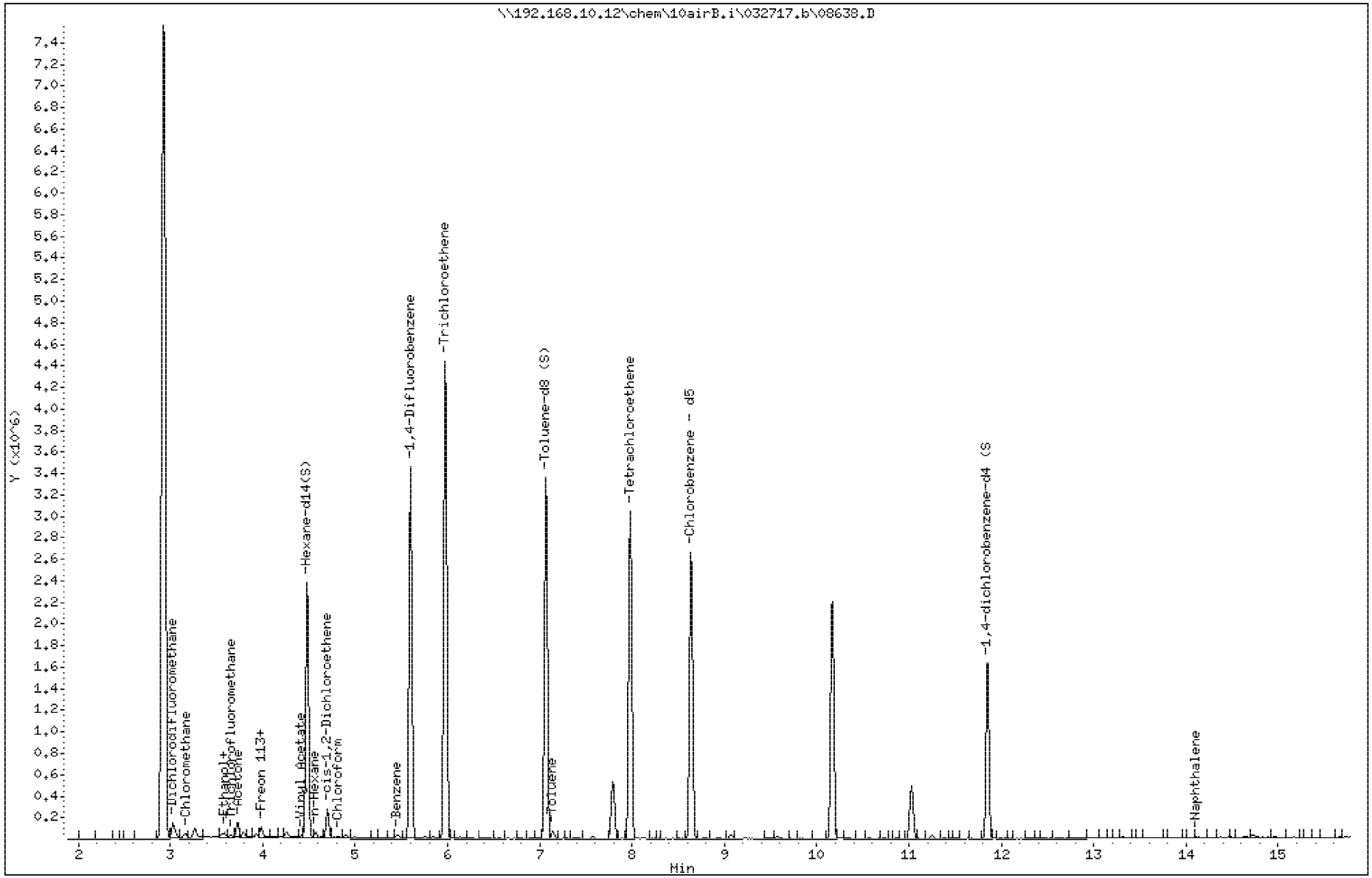
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2427274	-14.28
67 Chlorobenzene - d	1804482	1082689	2526275	1519740	-15.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D
Date : 28-MAR-2017 03:53
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

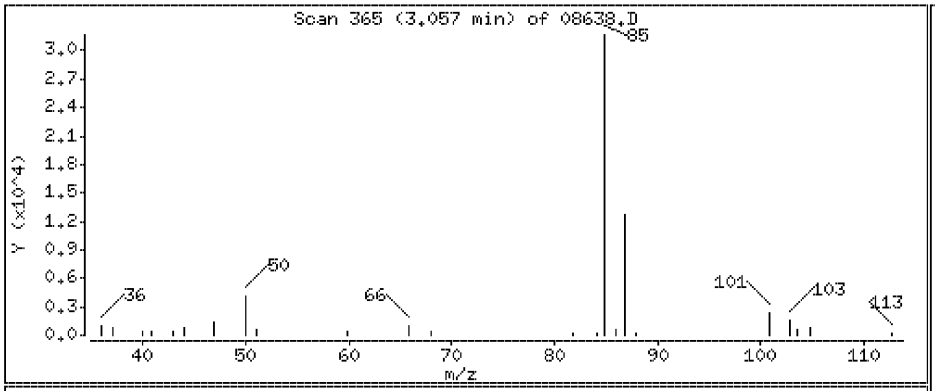
Operator: NCK

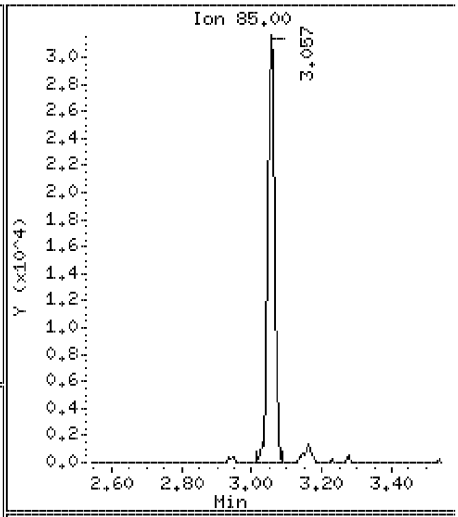
Column phase: J&W DB-5

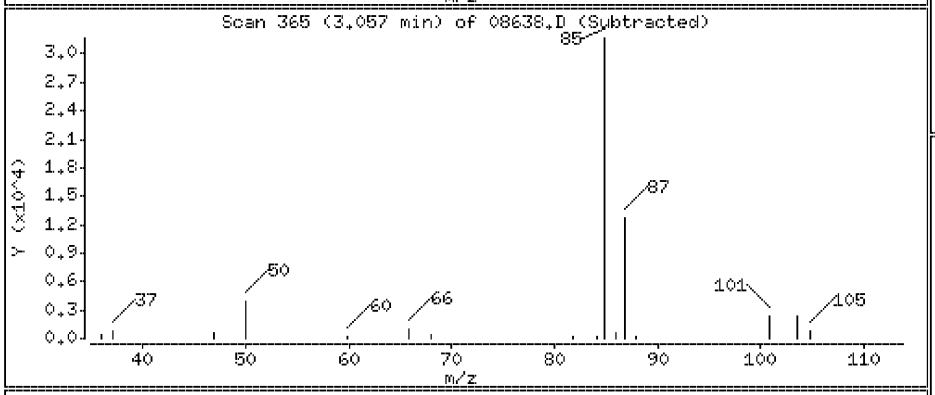
Column diameter: 0.32

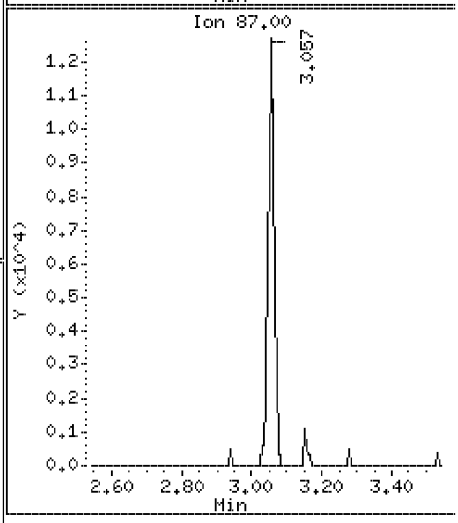
5 Dichlorodifluoromethane

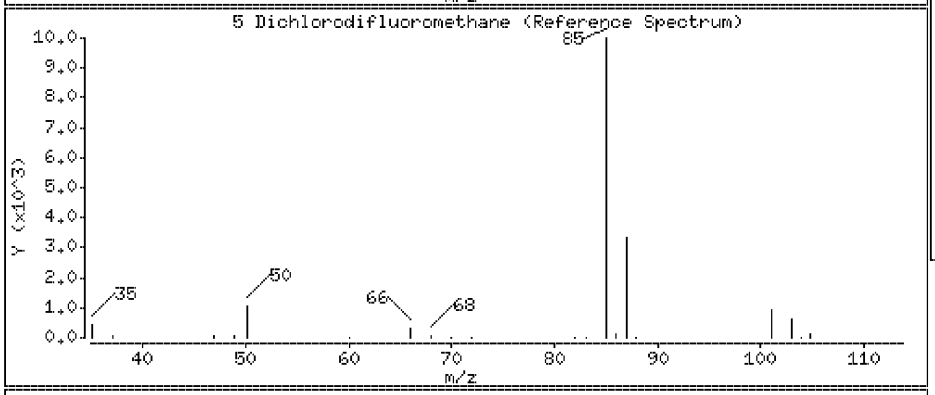
Concentration: 0.558 ppbv

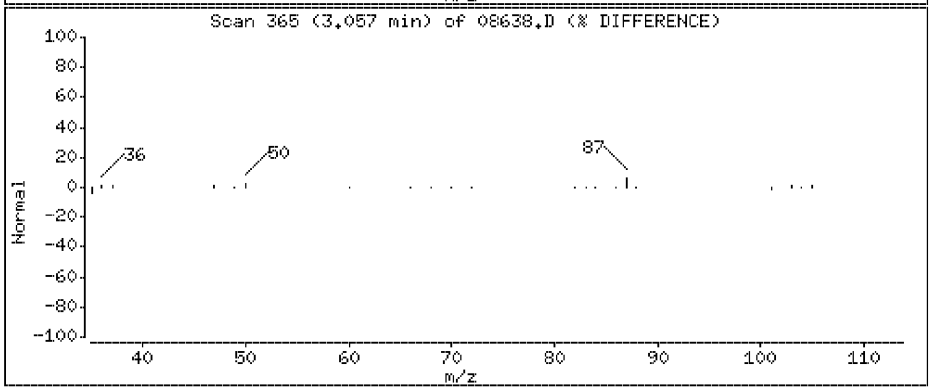












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

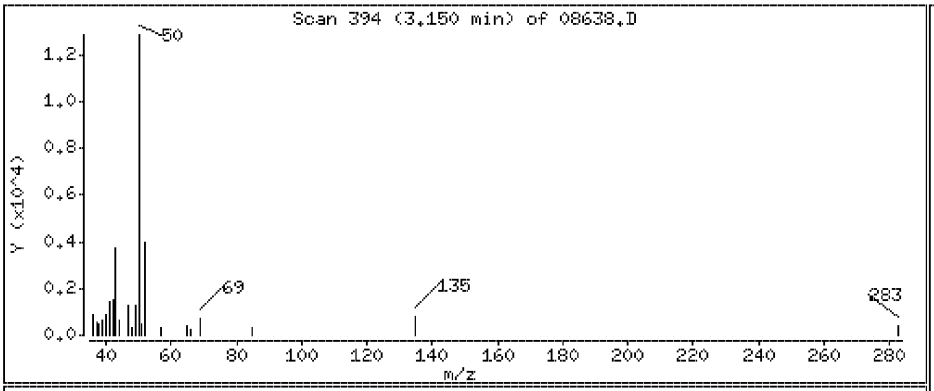
Operator: NCK

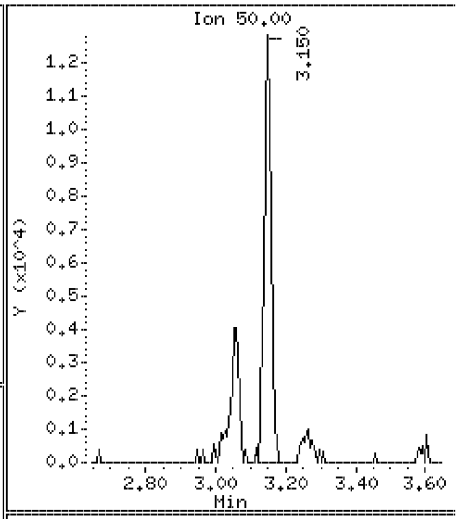
Column phase: J&W DB-5

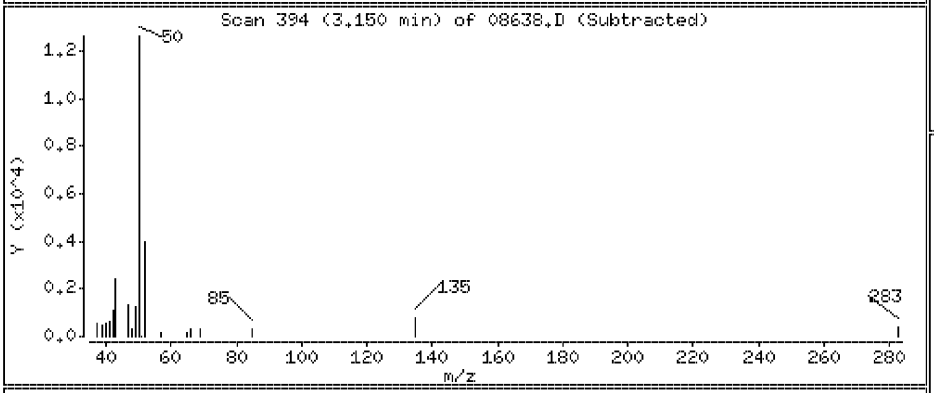
Column diameter: 0.32

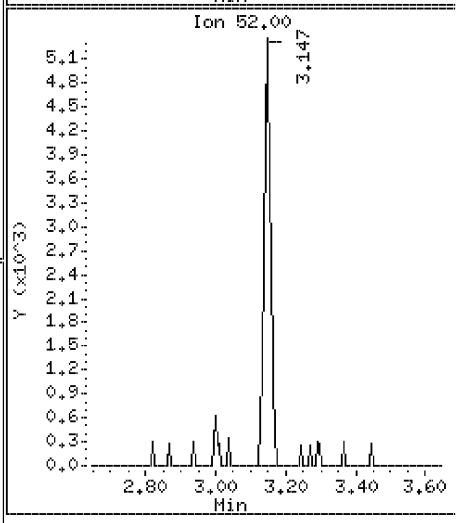
6 Chloromethane

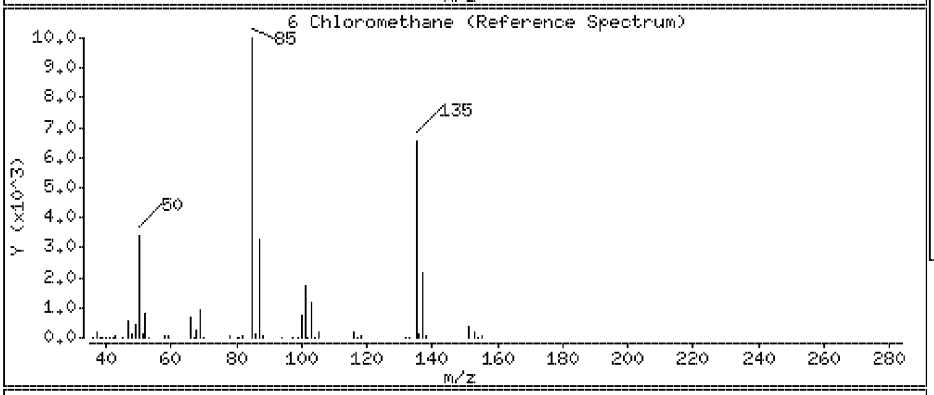
Concentration: 0.564 ppbv

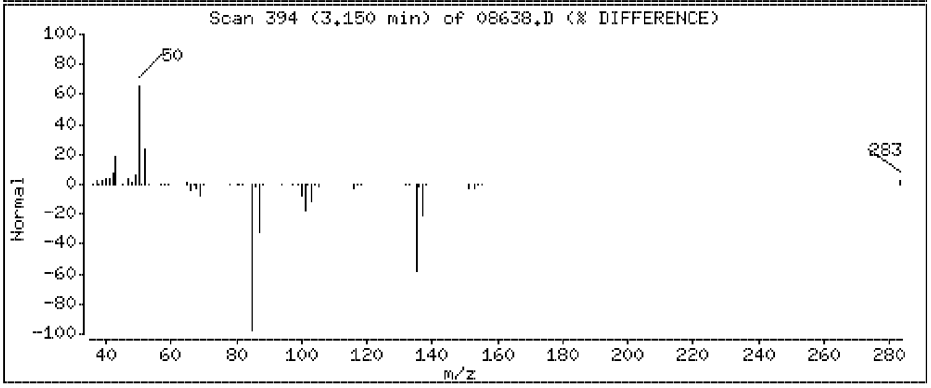












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

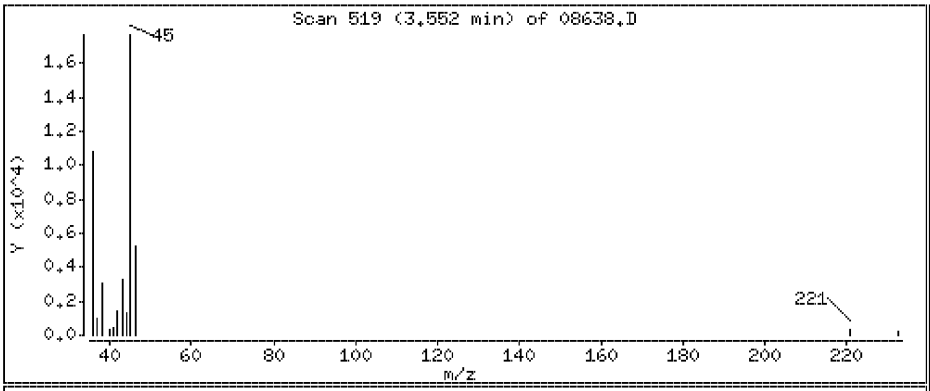
Operator: NCK

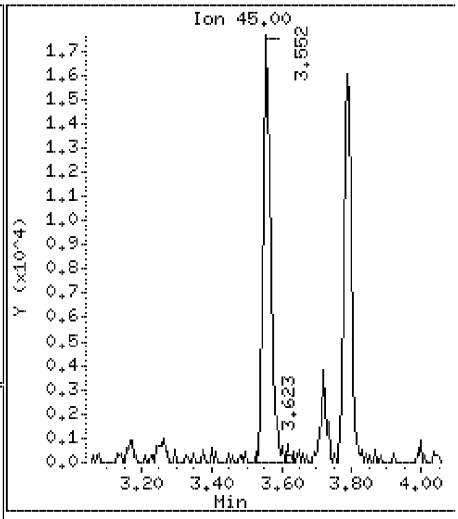
Column phase: J&W DB-5

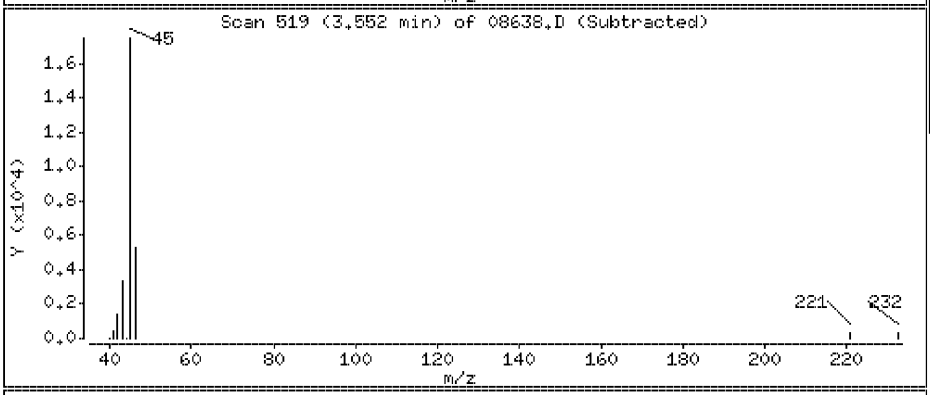
Column diameter: 0.32

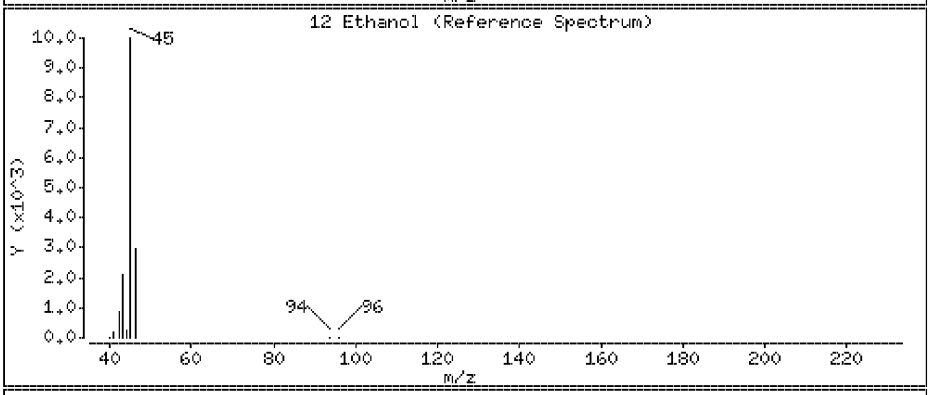
12 Ethanol

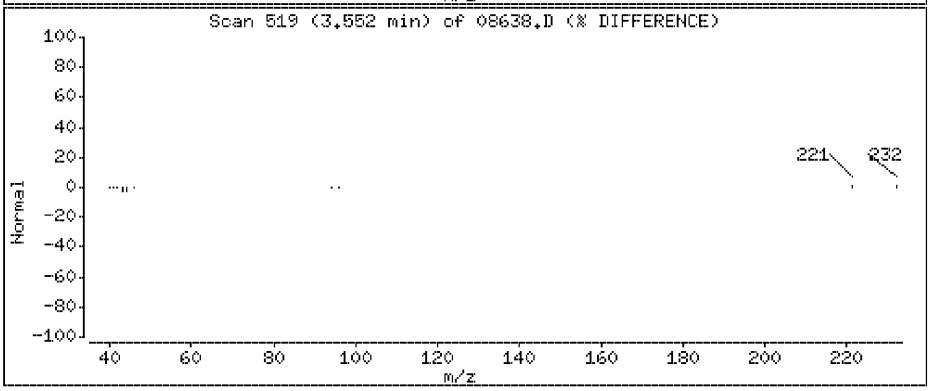
Concentration: 2.92 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

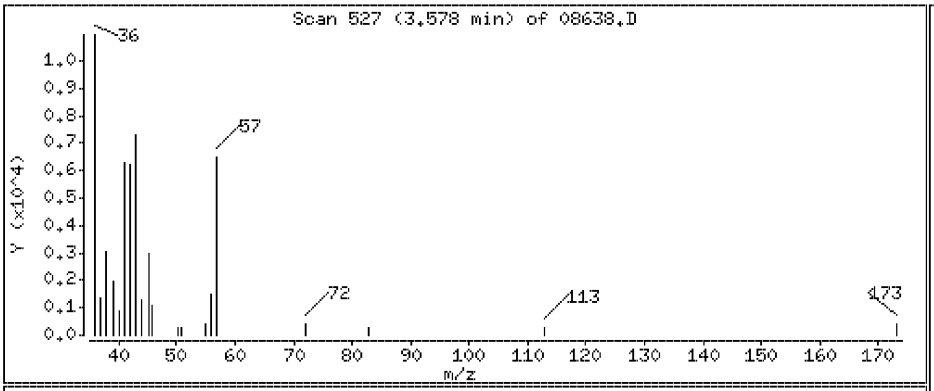
Operator: NCK

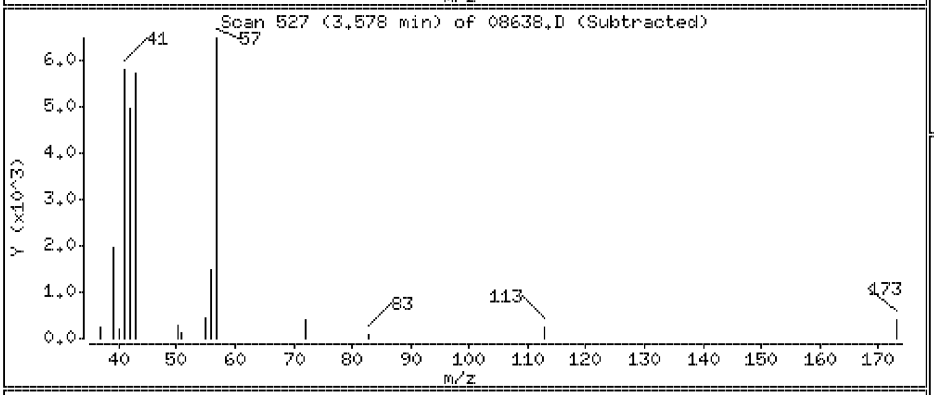
Column phase: J&W DB-5

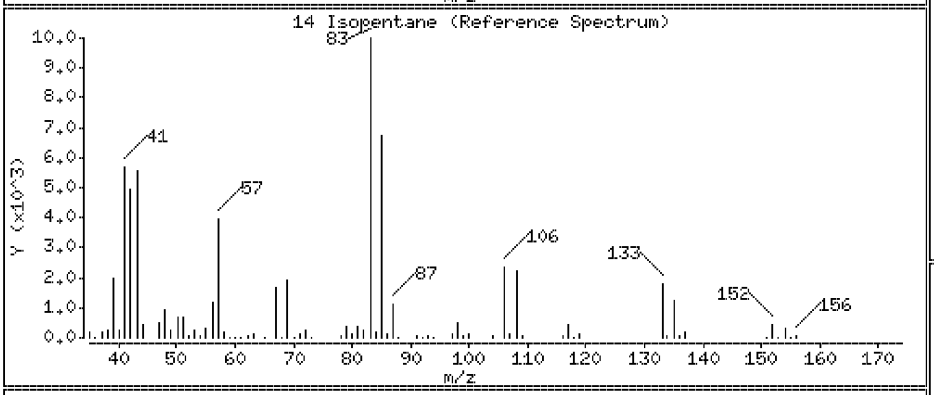
Column diameter: 0.32

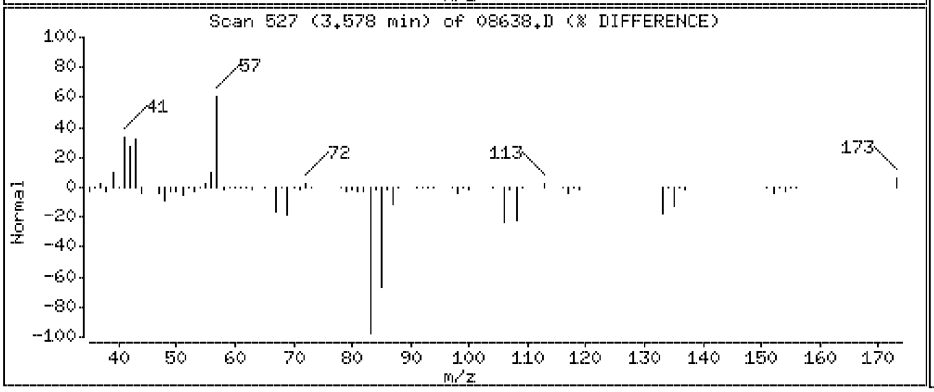
14 Isopentane

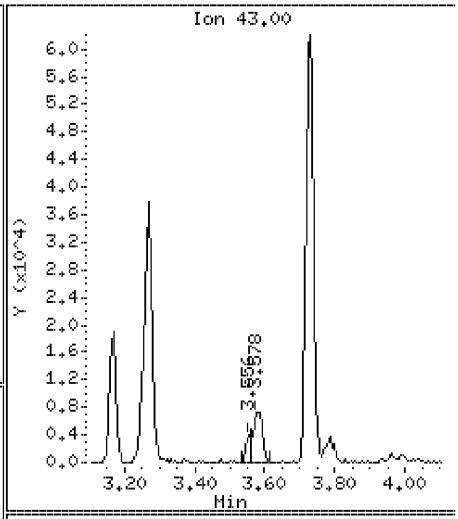
Concentration: 0.510 ppbv

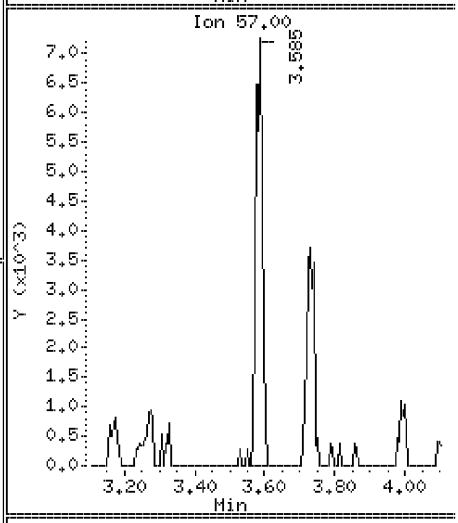


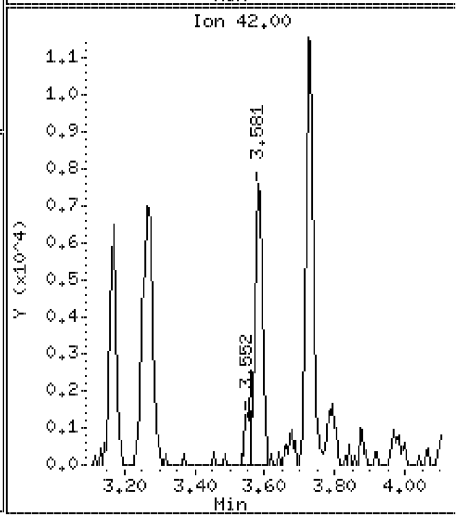












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

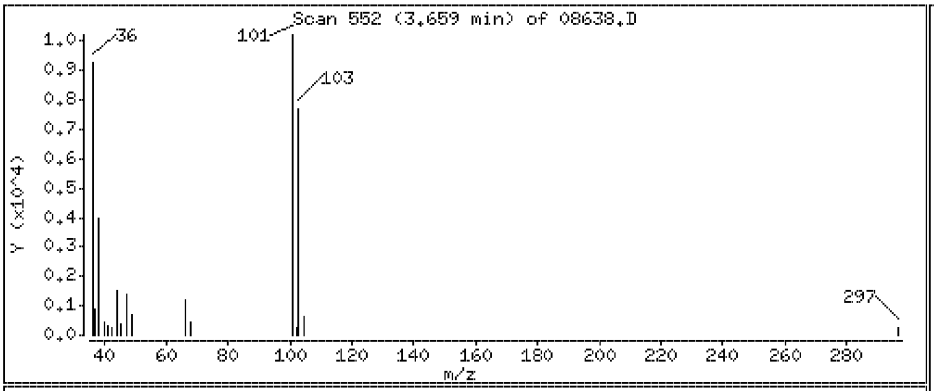
Operator: NCK

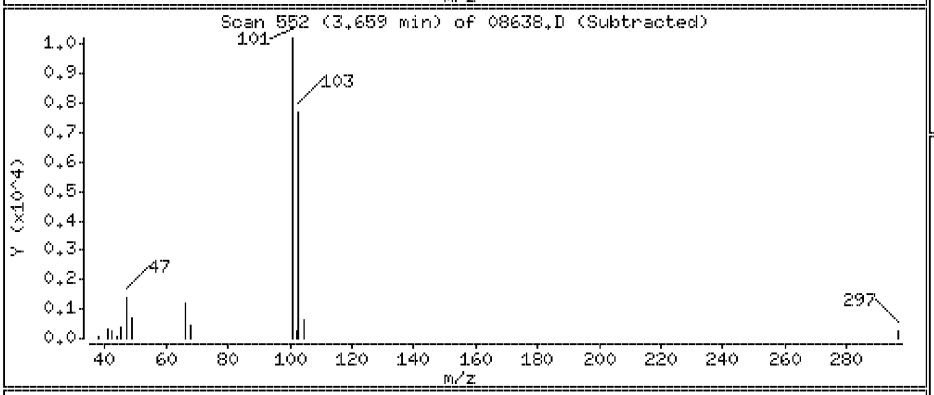
Column phase: J&W DB-5

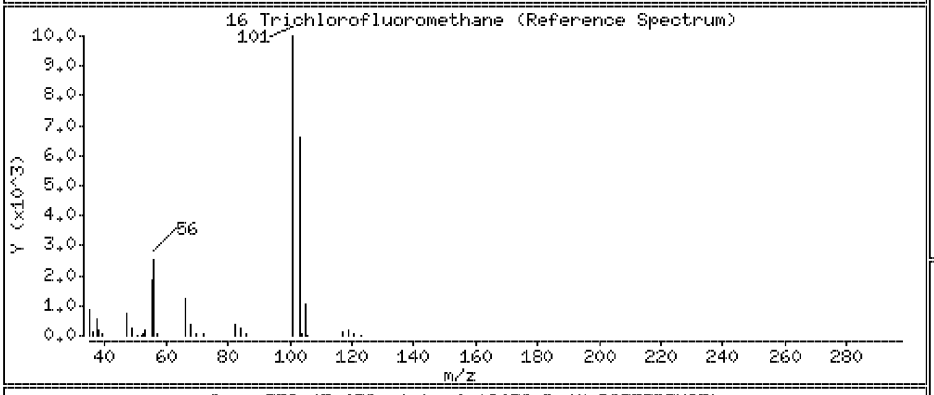
Column diameter: 0.32

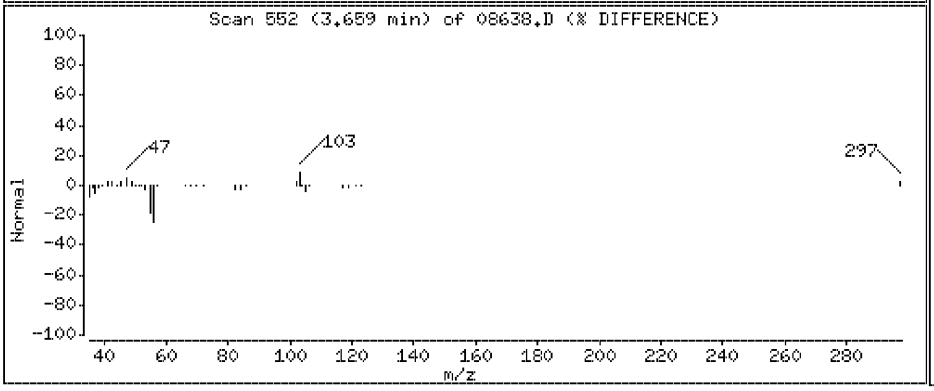
16 Trichlorofluoromethane

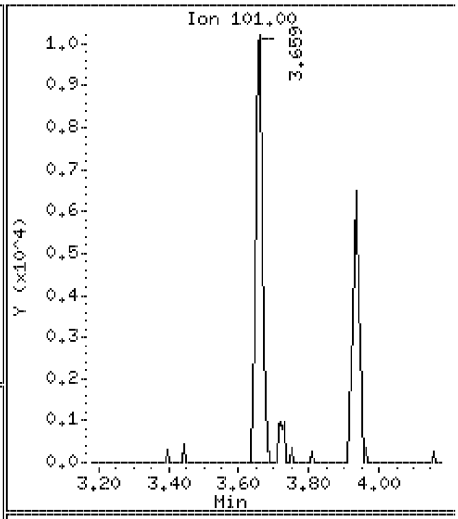
Concentration: 0.242 ppbv

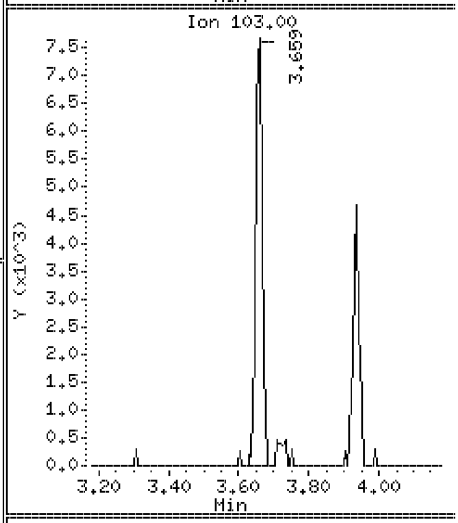


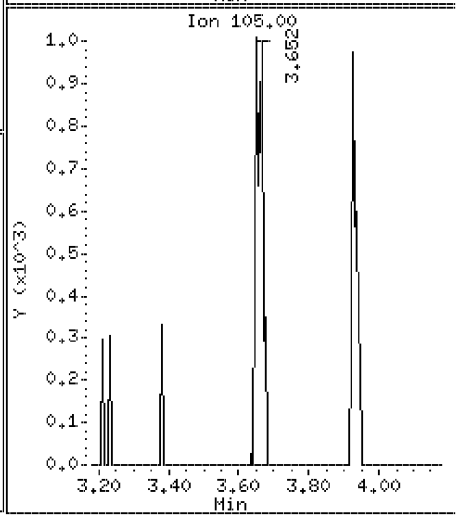












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

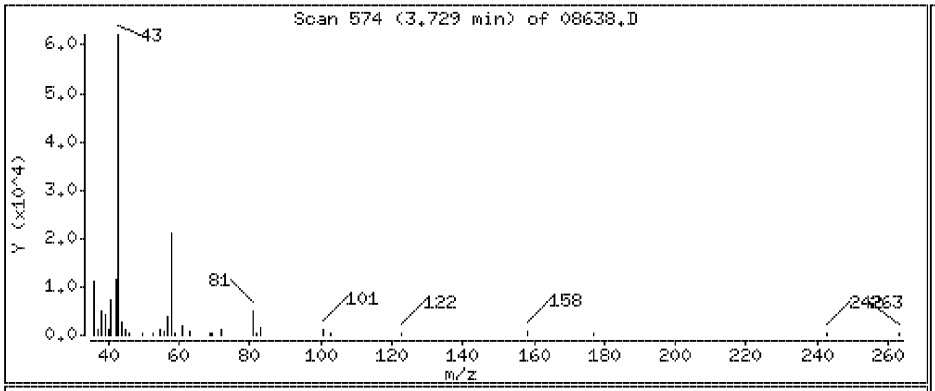
Operator: NCK

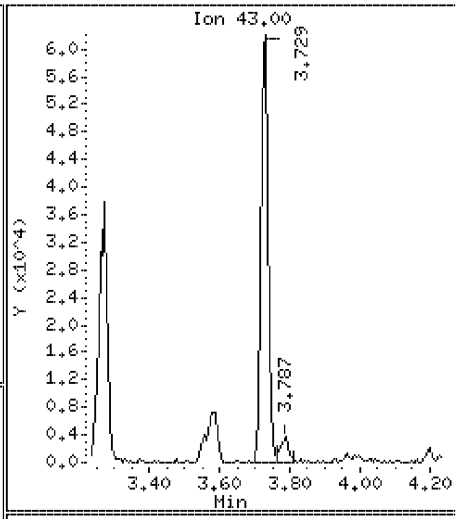
Column phase: J&W DB-5

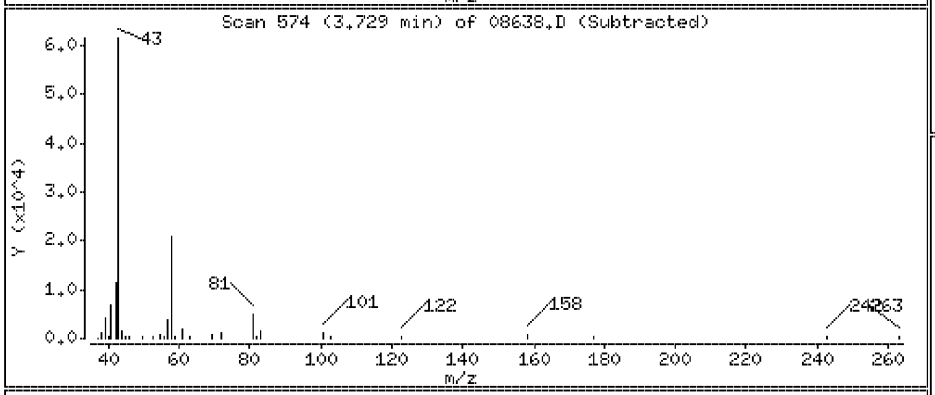
Column diameter: 0.32

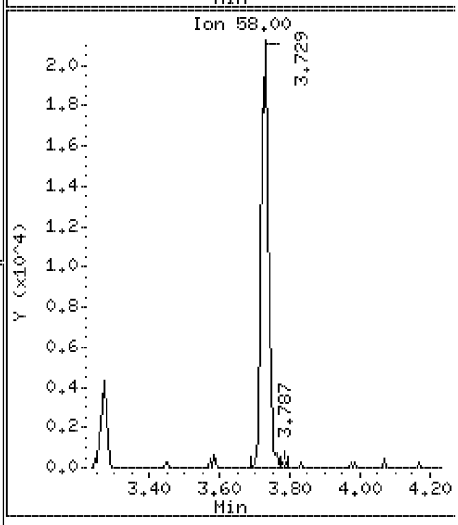
18 Acetone

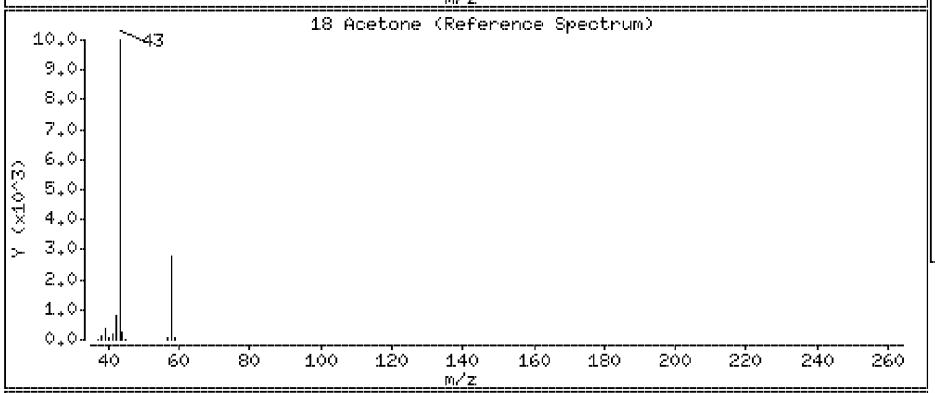
Concentration: 2.32 ppbv

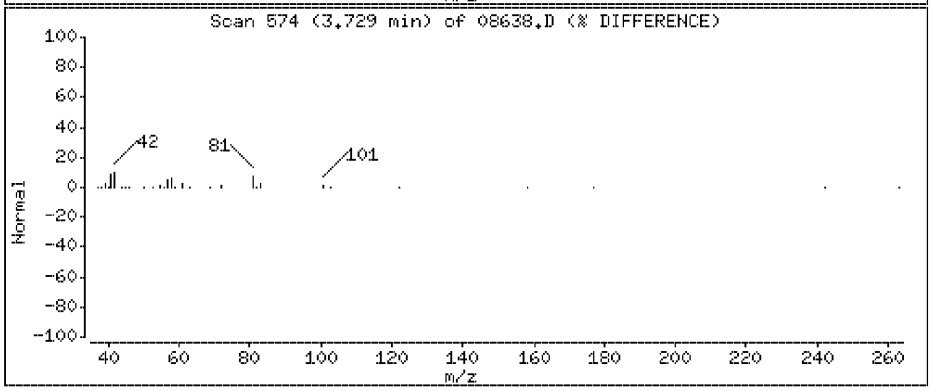












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

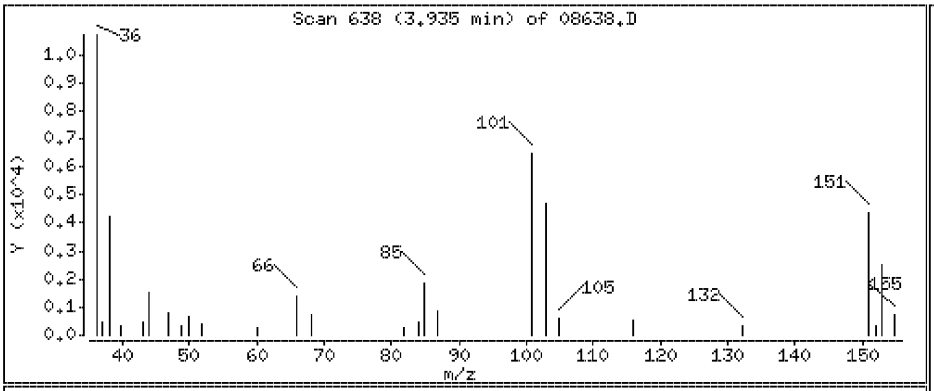
Operator: NCK

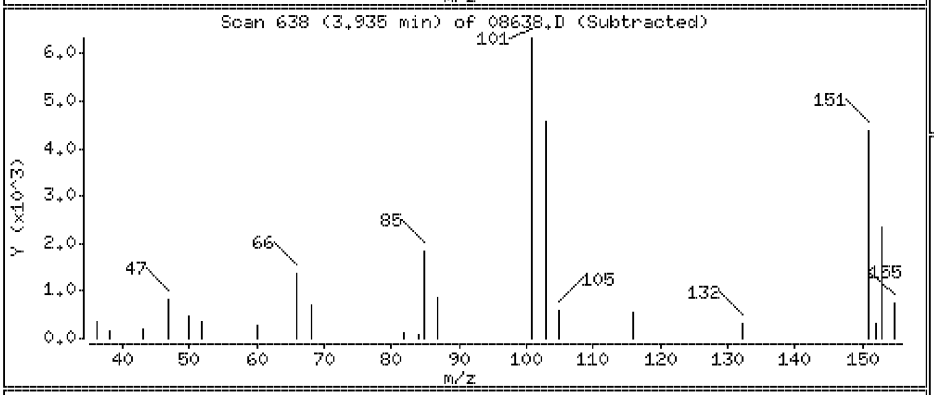
Column phase: J&W DB-5

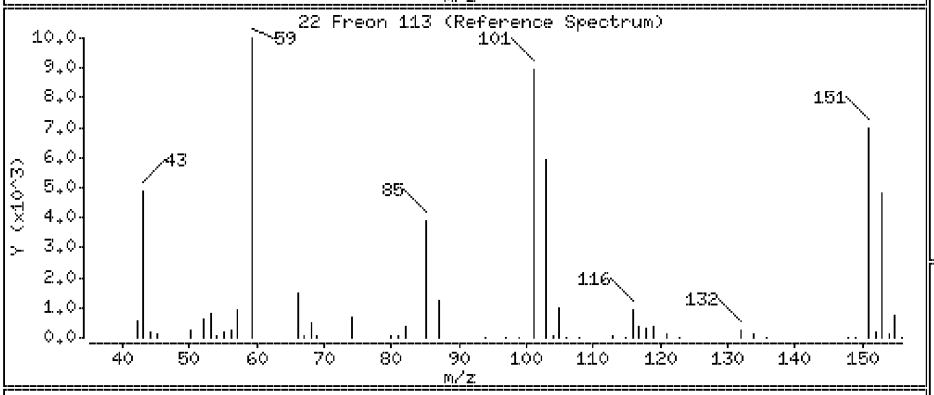
Column diameter: 0.32

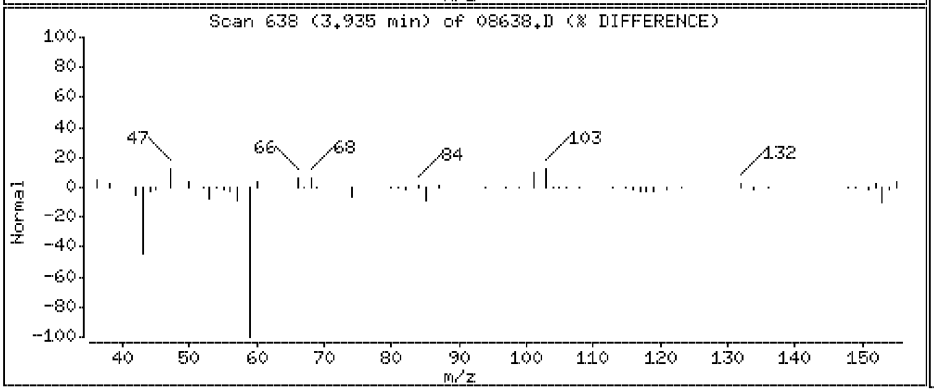
22 Freon 113

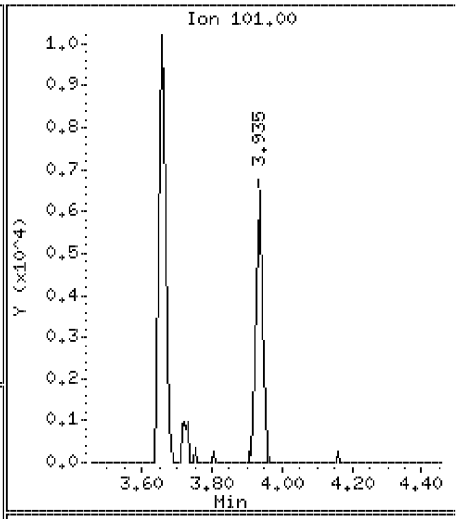
Concentration: 0.189 ppbv

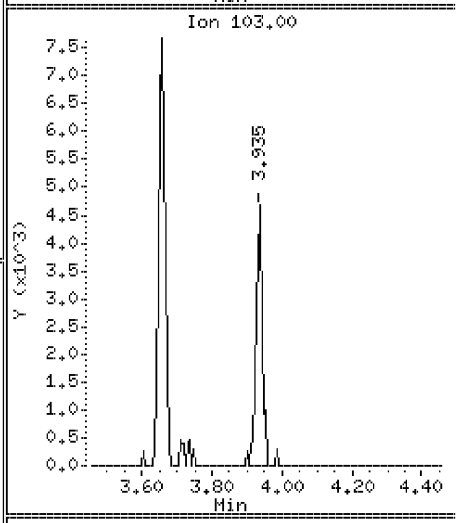


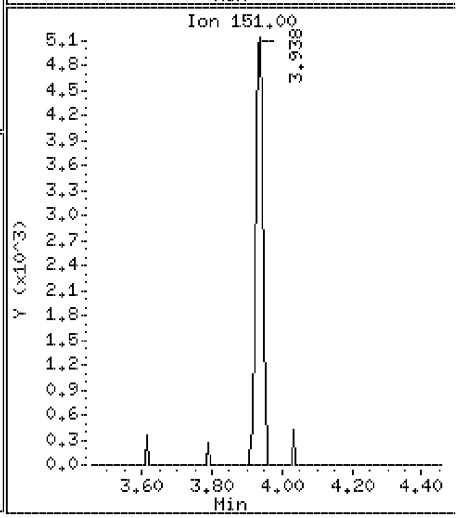












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

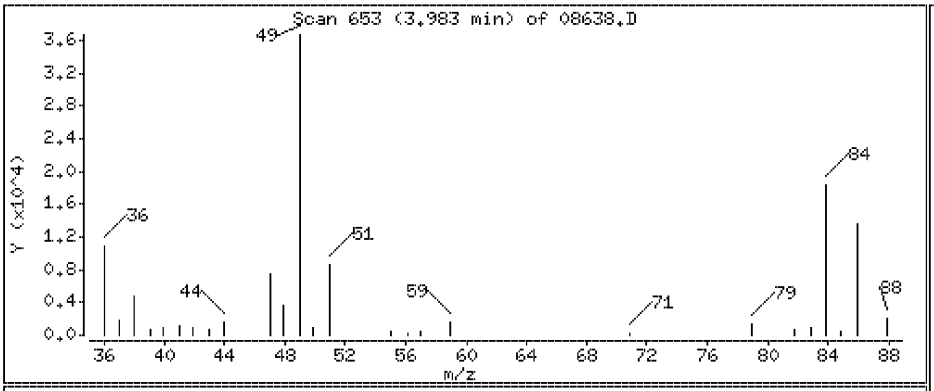
Operator: NCK

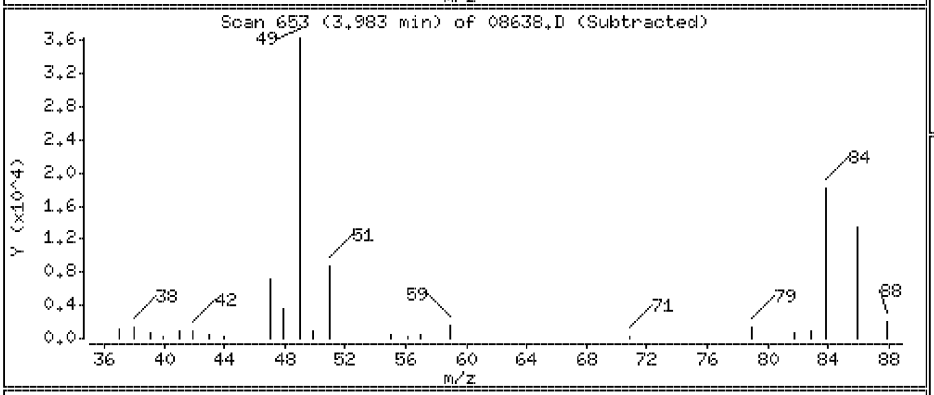
Column phase: J&W DB-5

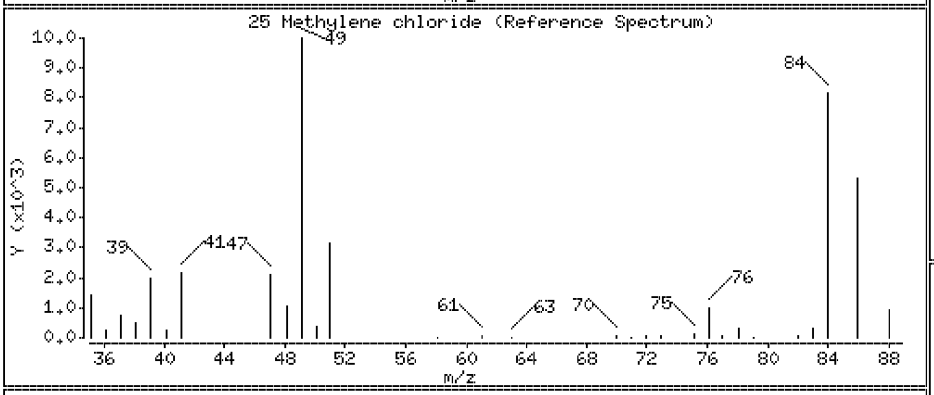
Column diameter: 0.32

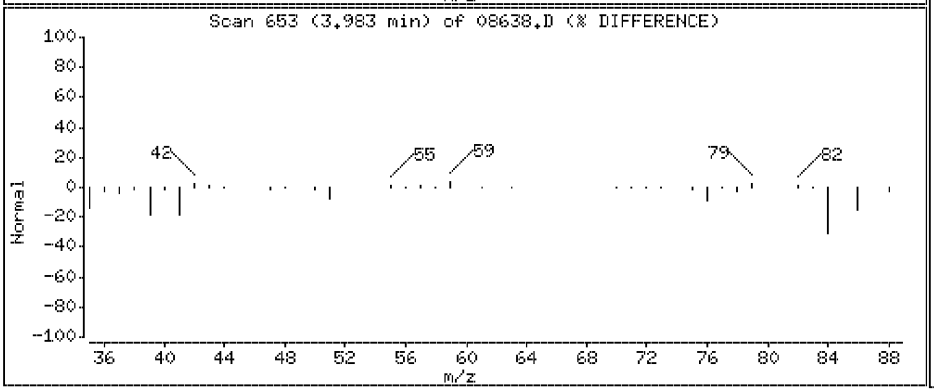
25 Methylene chloride

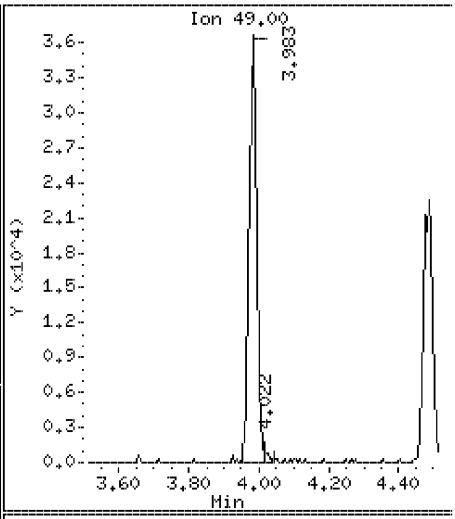
Concentration: 1.90 ppbv

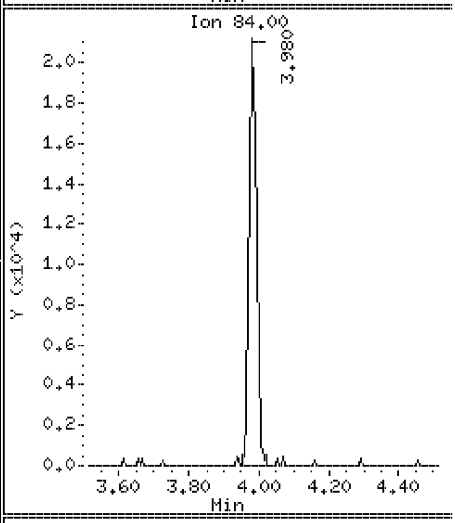


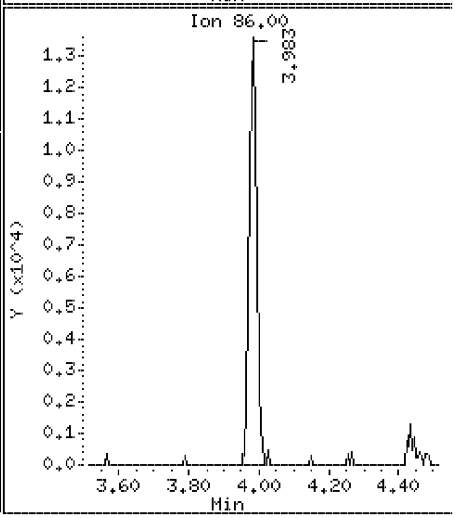












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

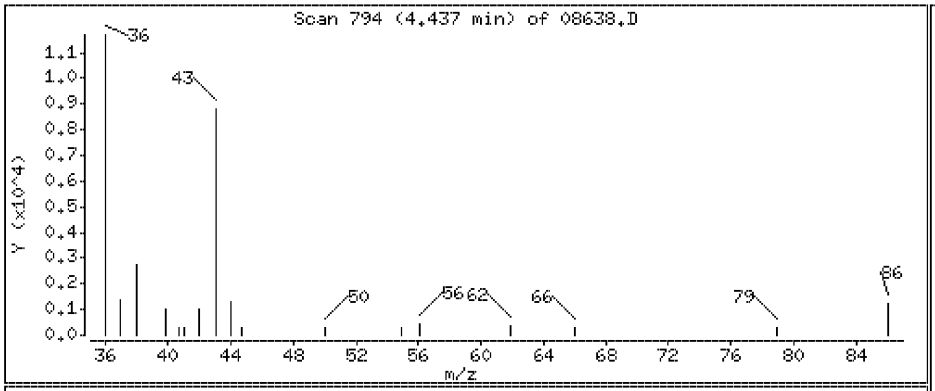
Operator: NCK

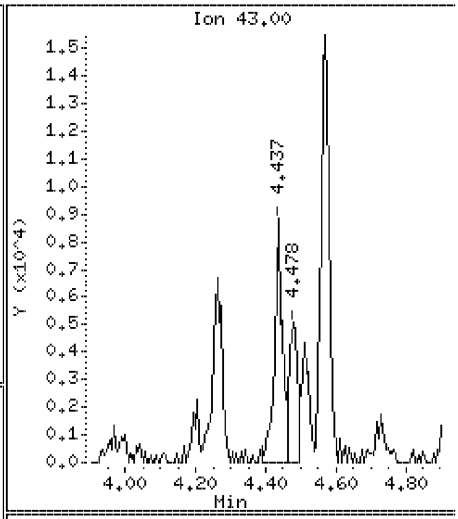
Column phase: J&W DB-5

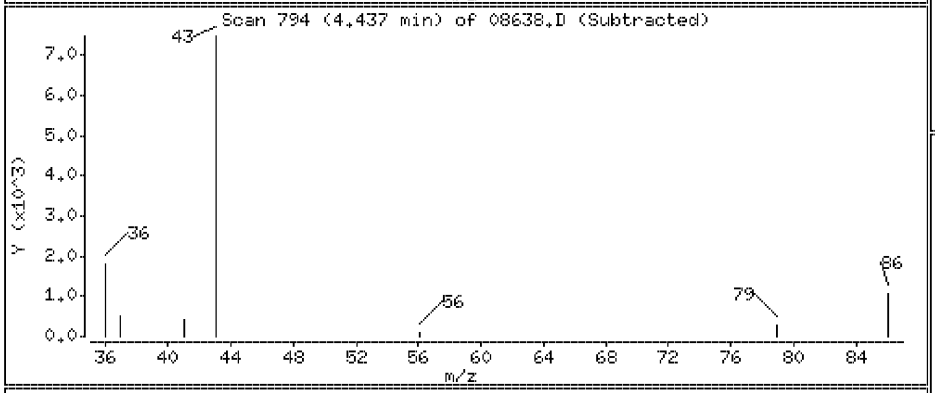
Column diameter: 0.32

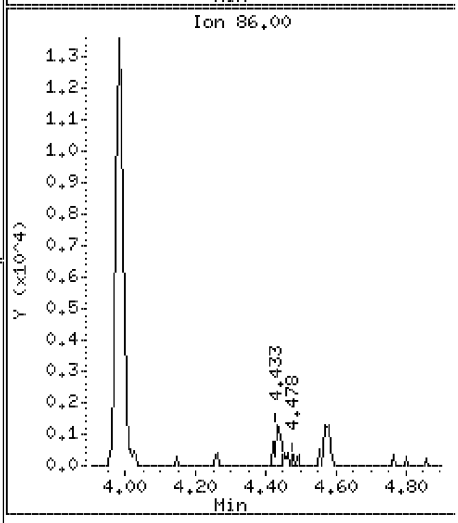
30 Vinyl Acetate

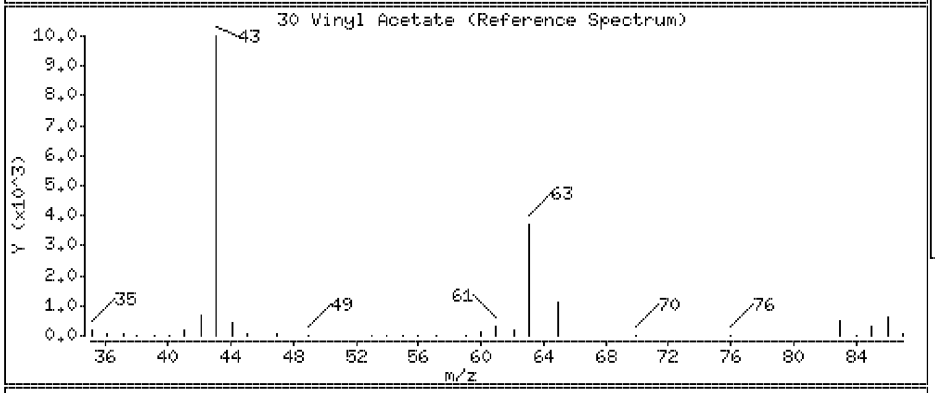
Concentration: 0.221 ppbv

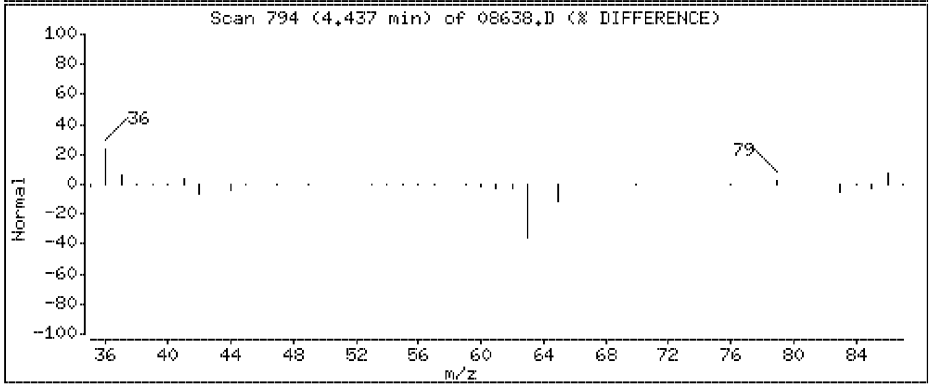












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

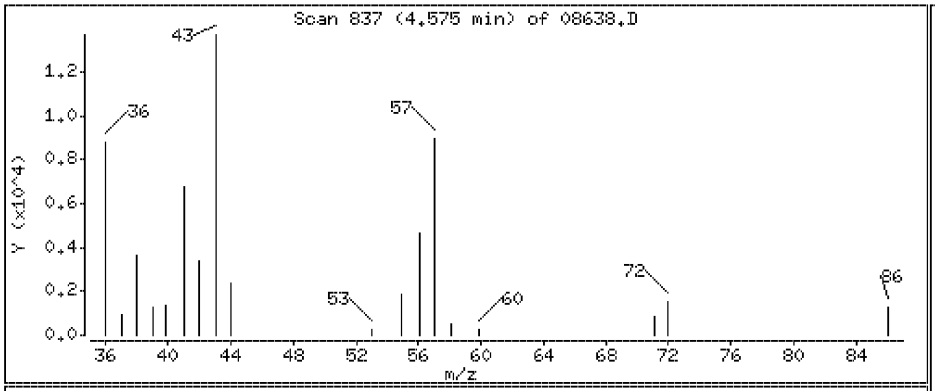
Operator: NCK

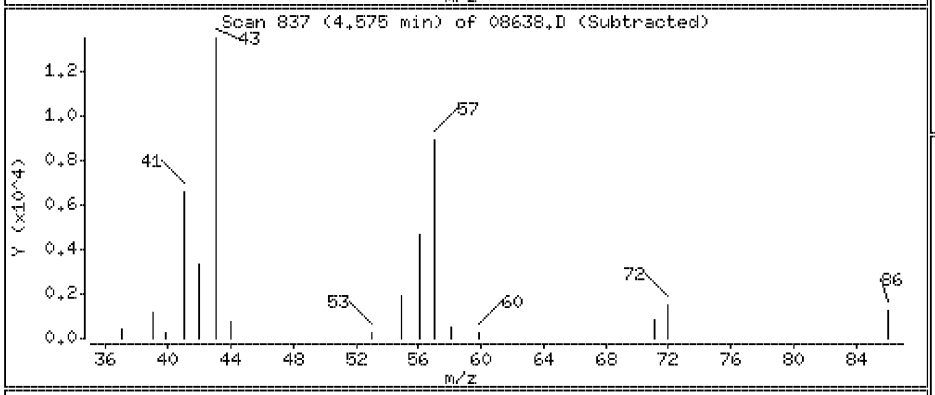
Column phase: J&W DB-5

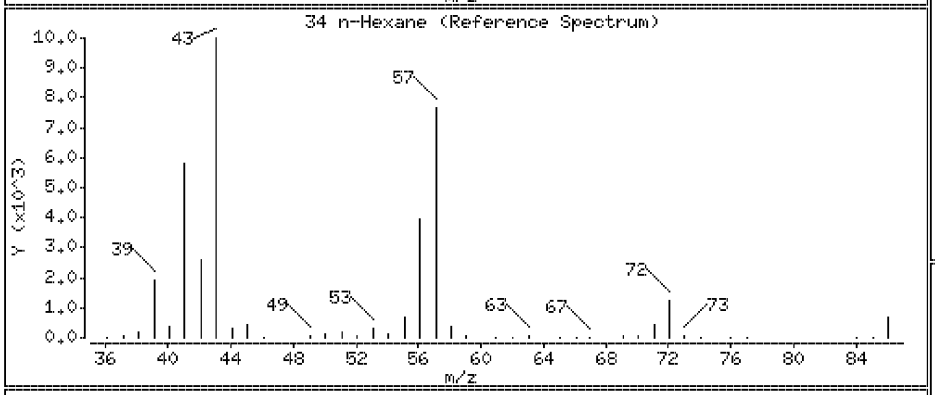
Column diameter: 0.32

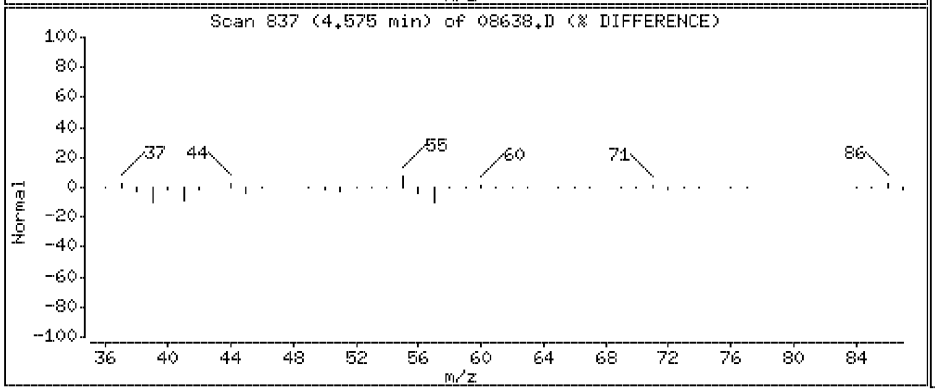
34 n-Hexane

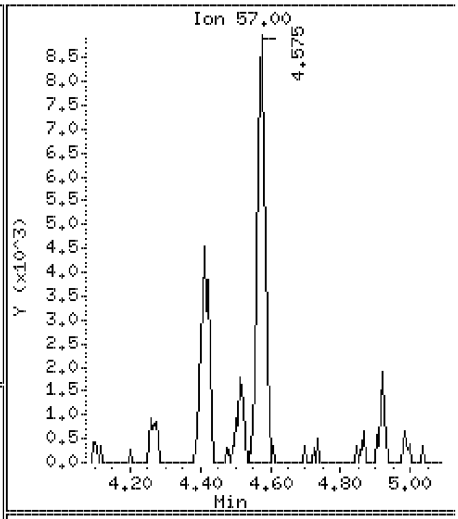
Concentration: 0.333 ppbv

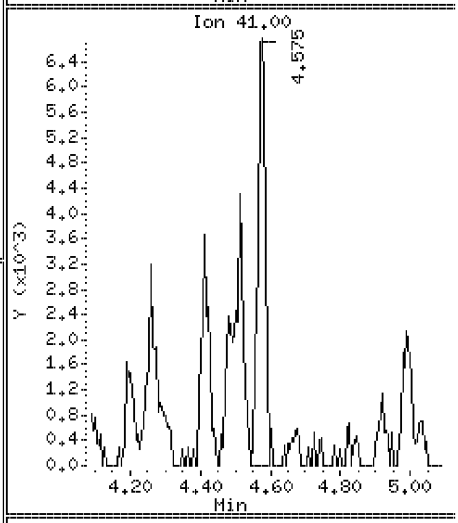


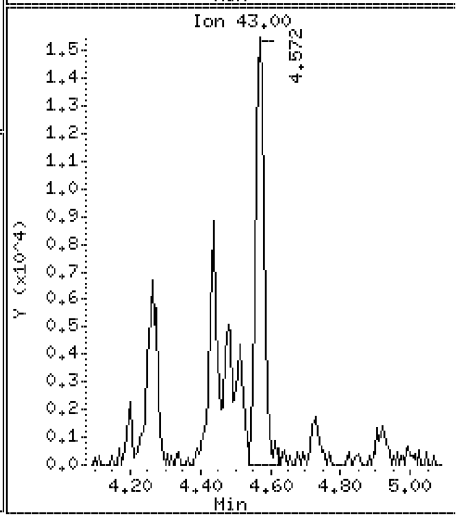












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

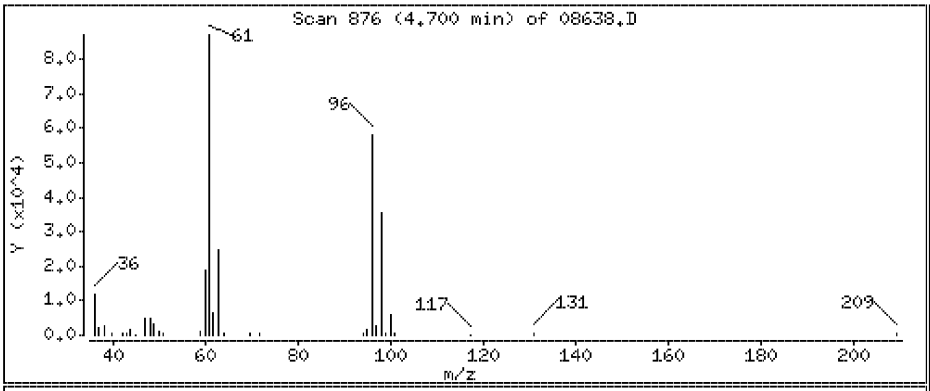
Operator: NCK

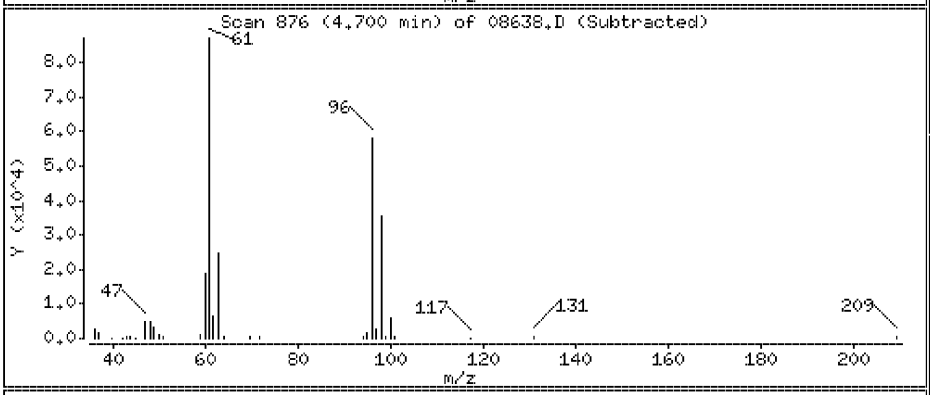
Column phase: J&W DB-5

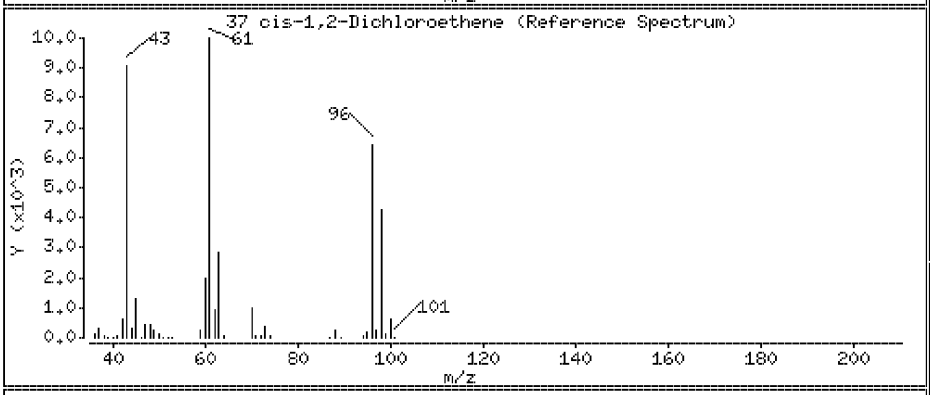
Column diameter: 0.32

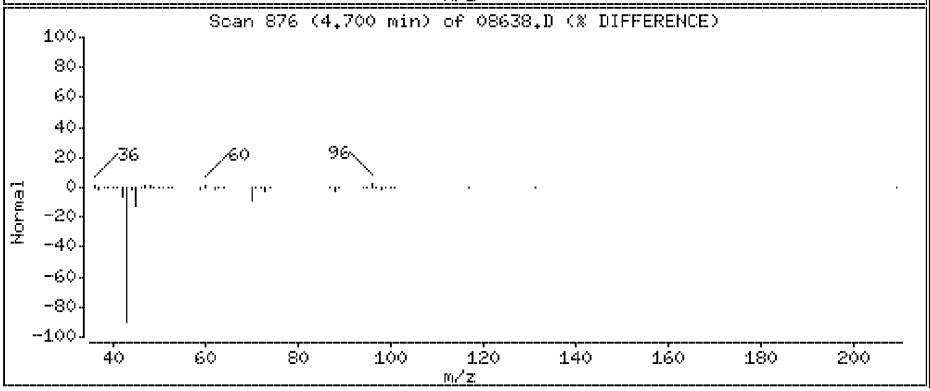
37 cis-1,2-Dichloroethene

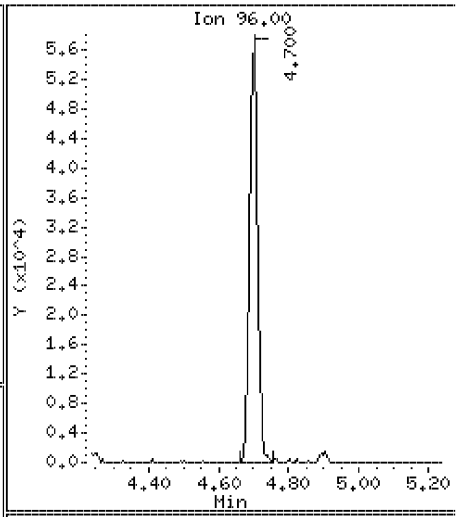
Concentration: 3.81 ppbv

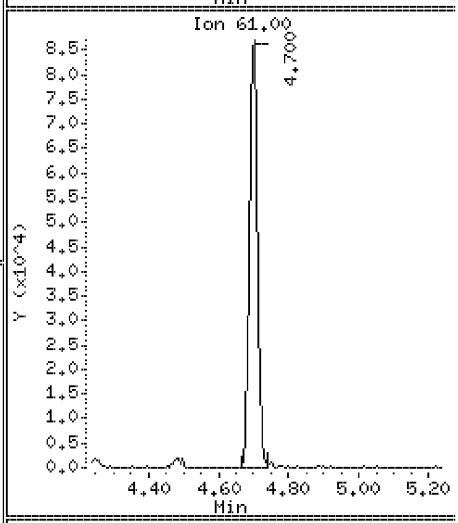


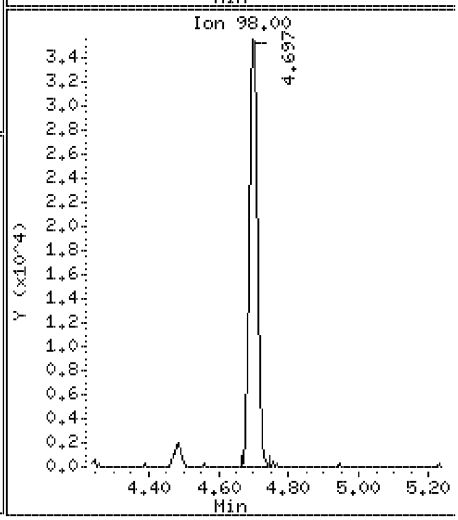












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

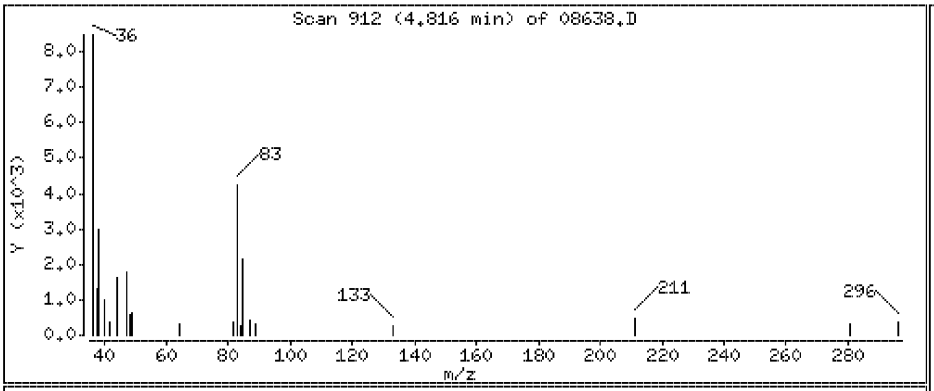
Operator: NCK

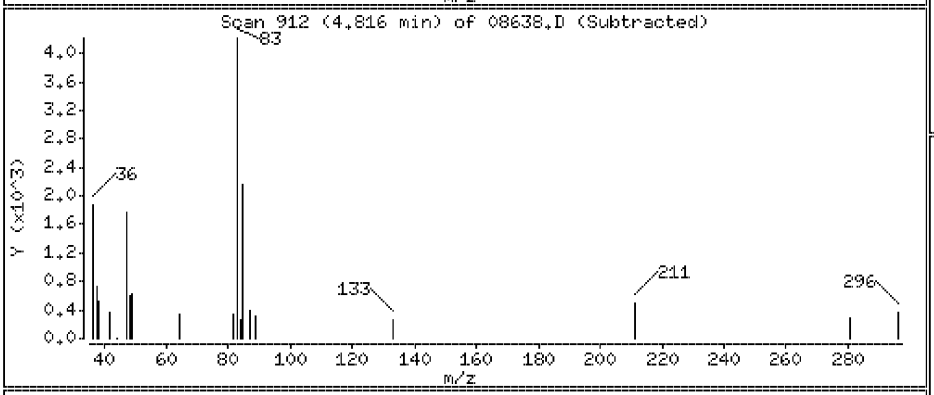
Column phase: J&W DB-5

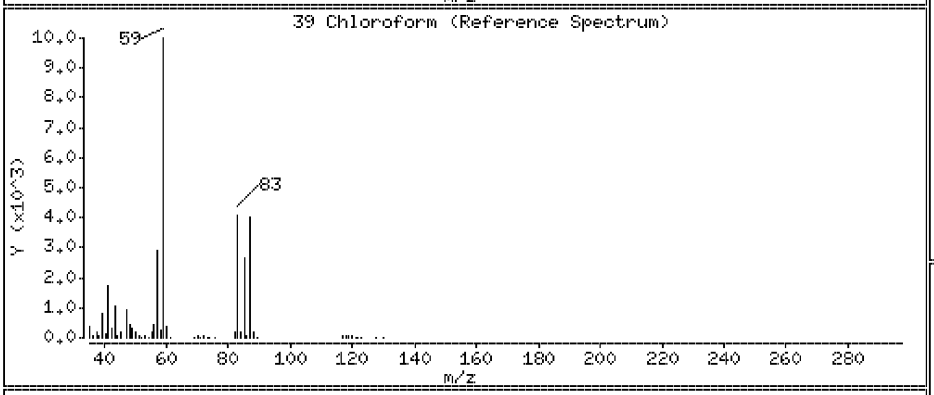
Column diameter: 0.32

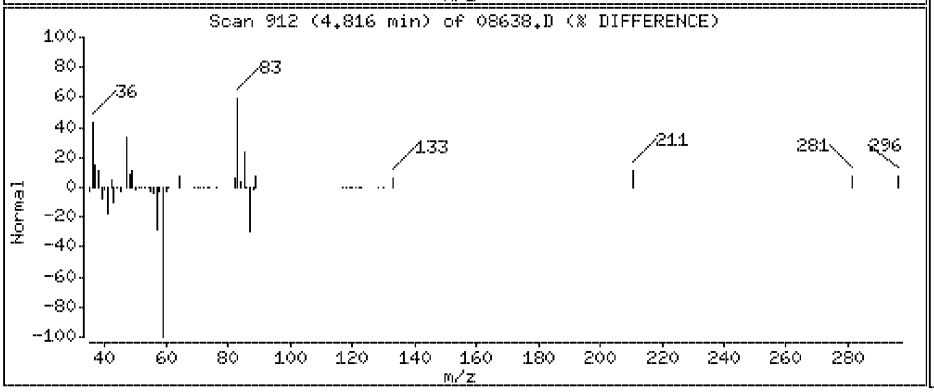
39 Chloroform

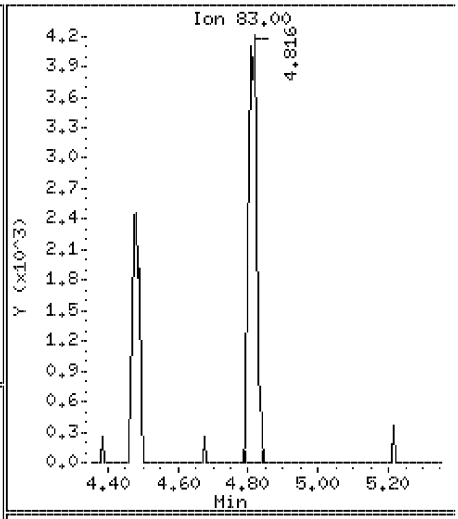
Concentration: 0.144 ppbv

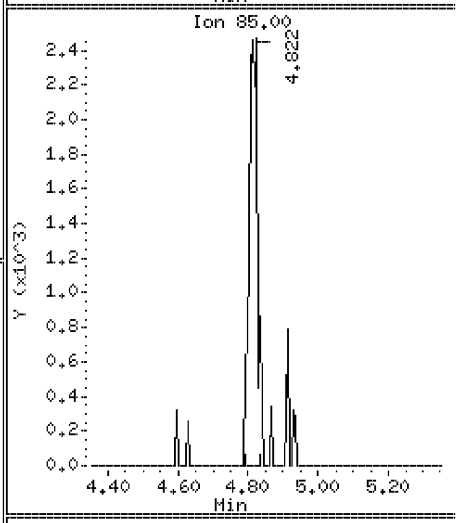


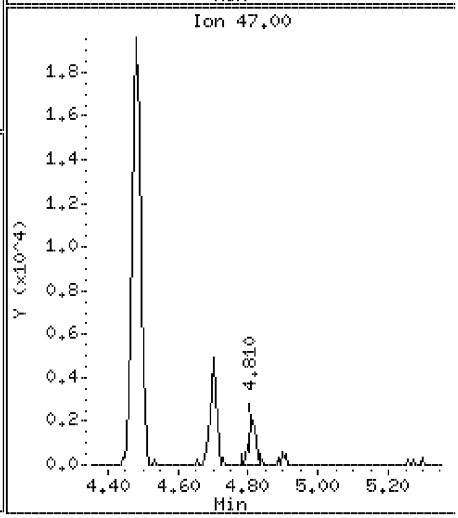












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

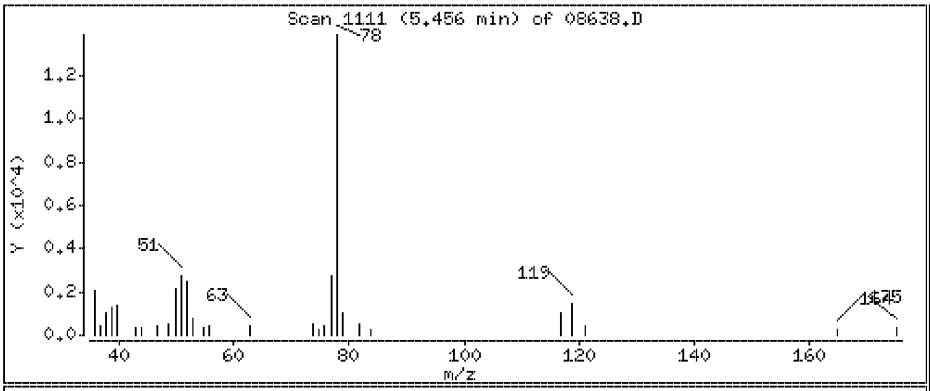
Operator: NCK

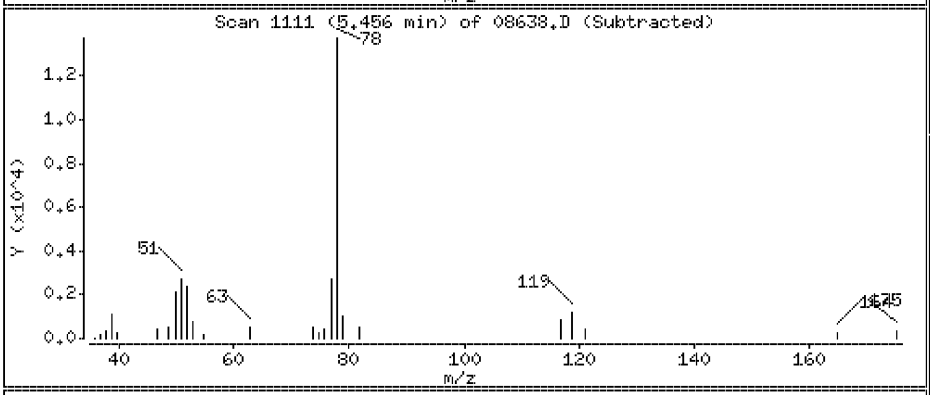
Column phase: J&W DB-5

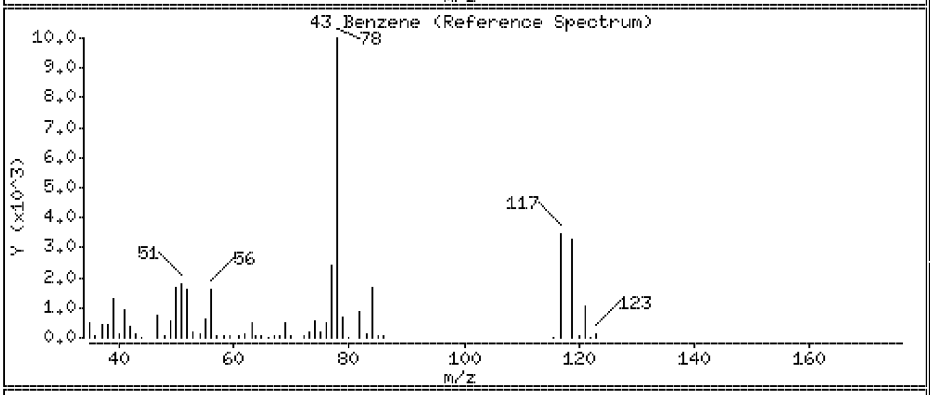
Column diameter: 0.32

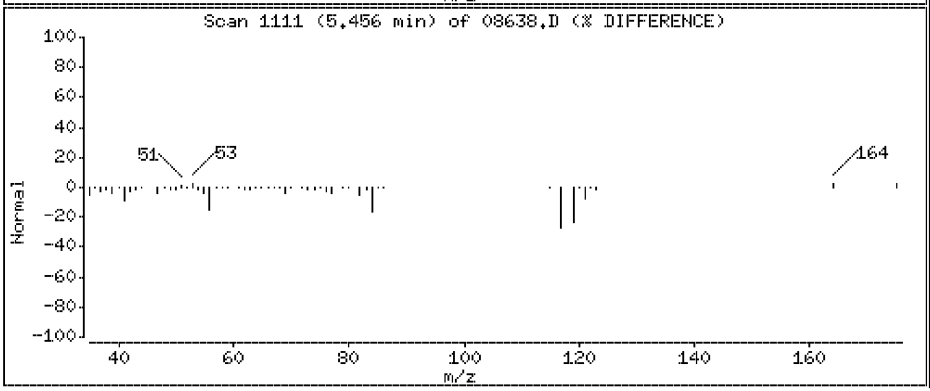
43 Benzene

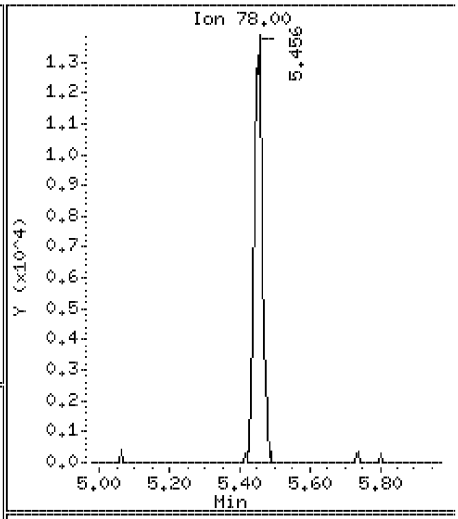
Concentration: 0.270 ppbv

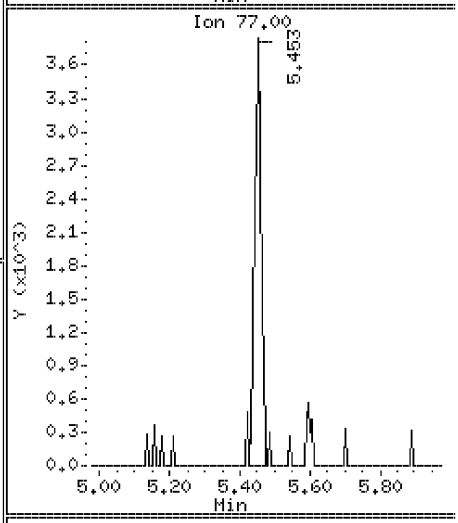


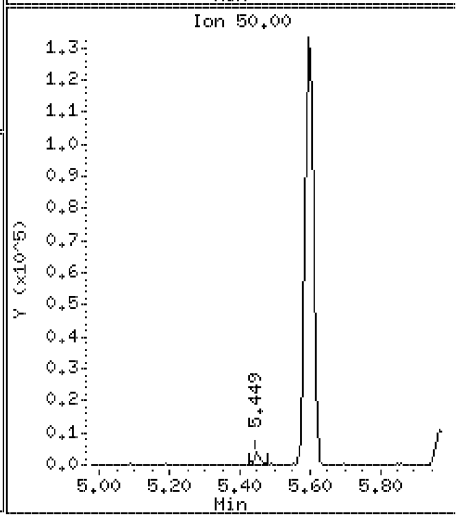












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

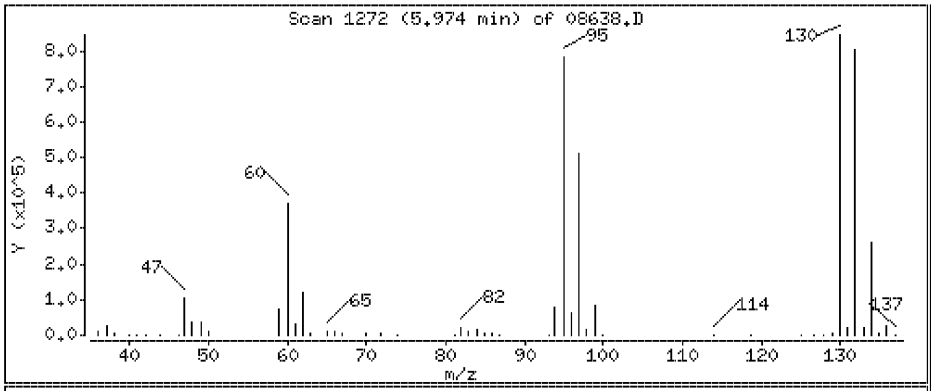
Operator: NCK

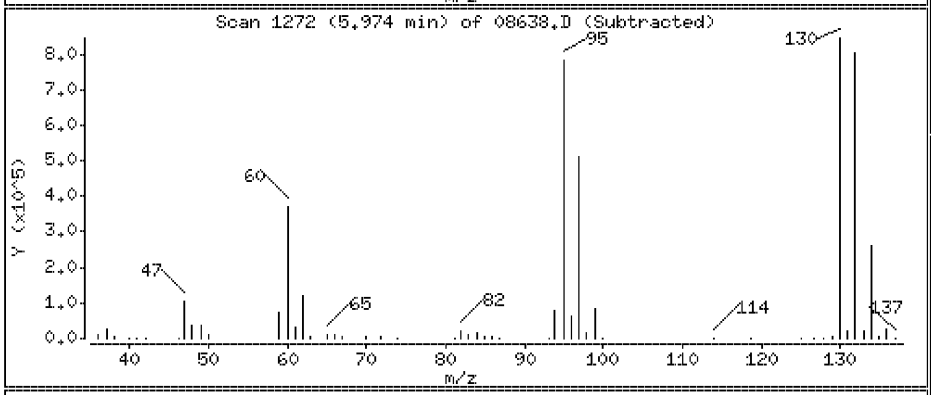
Column phase: J&W DB-5

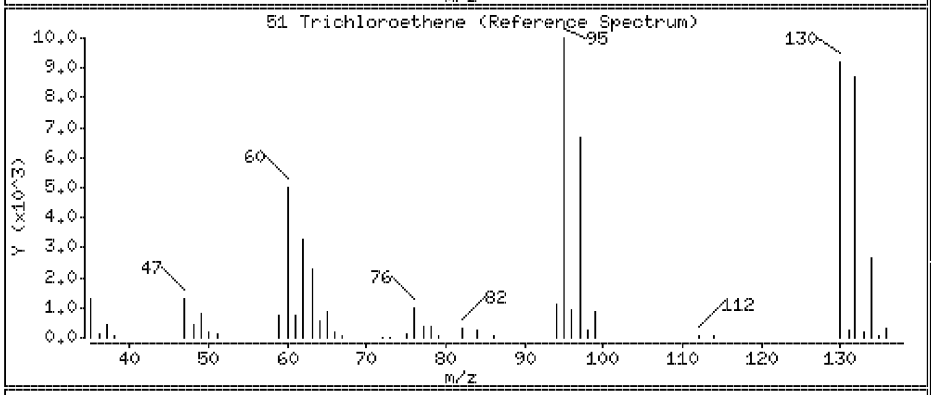
Column diameter: 0.32

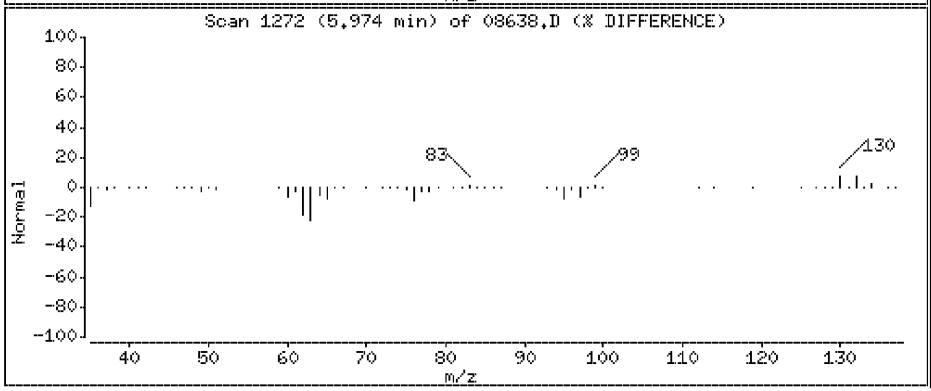
51 Trichloroethene

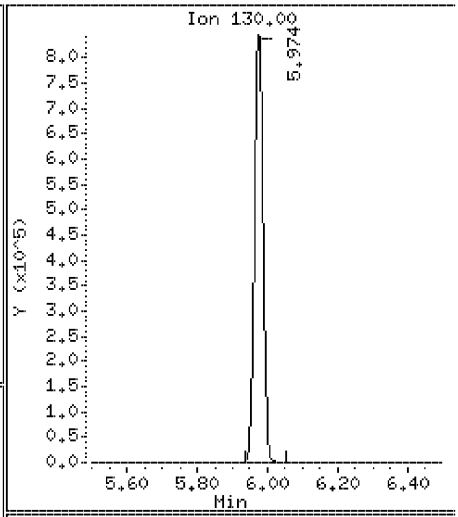
Concentration: 33.7 ppbv

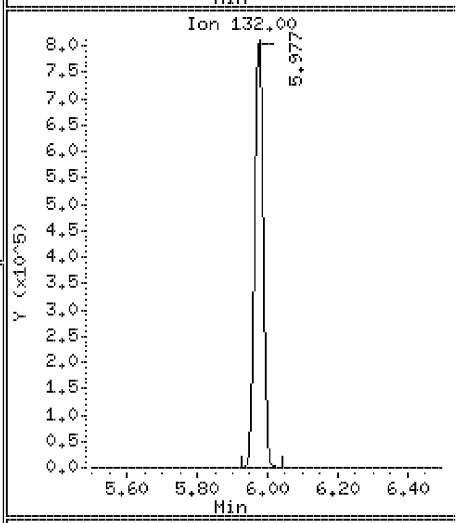


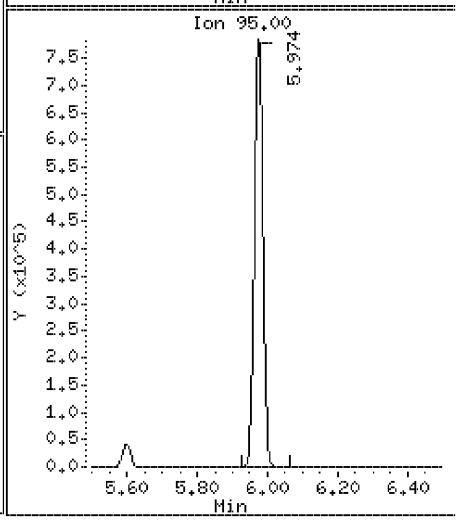












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

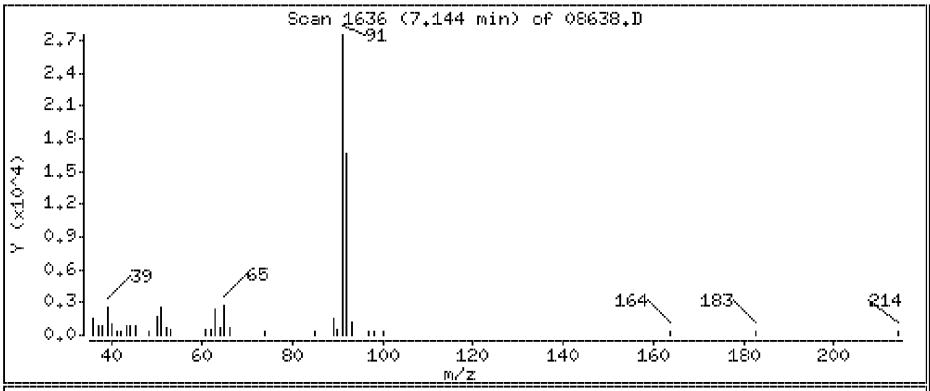
Operator: NCK

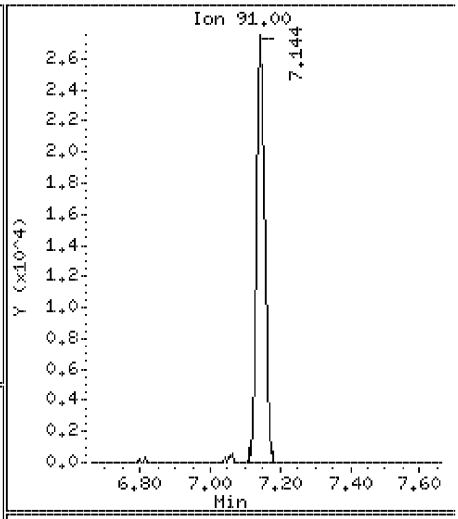
Column phase: J&W DB-5

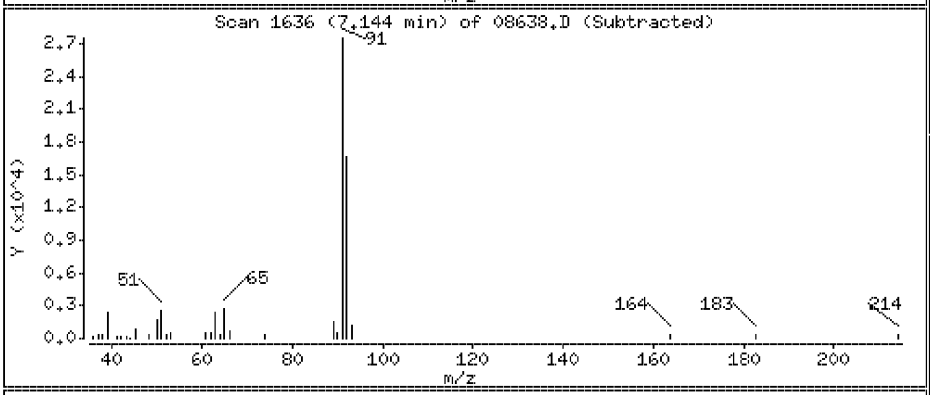
Column diameter: 0.32

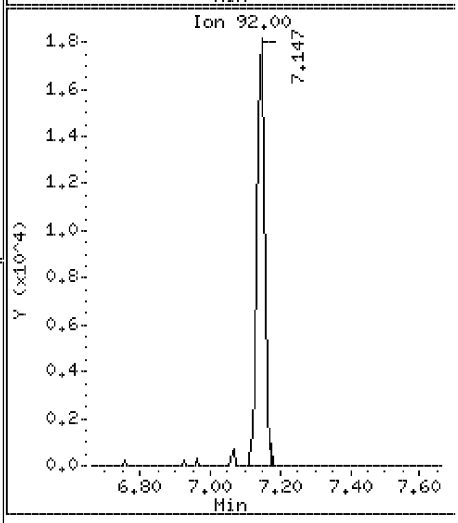
61 Toluene

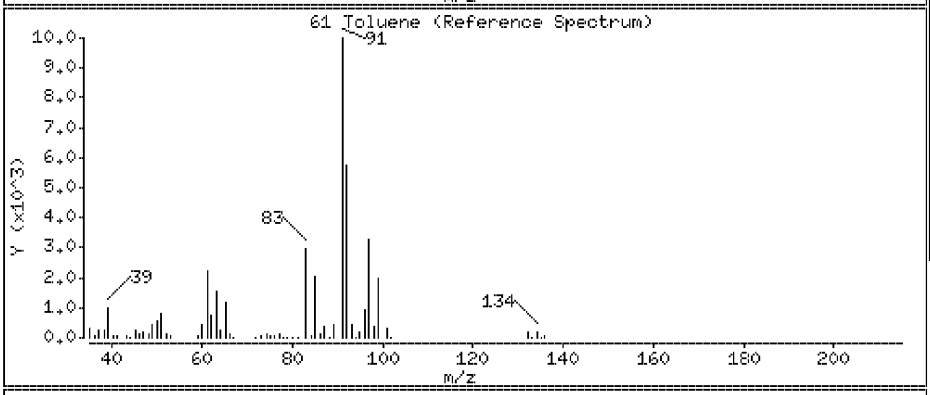
Concentration: 0.448 ppbv

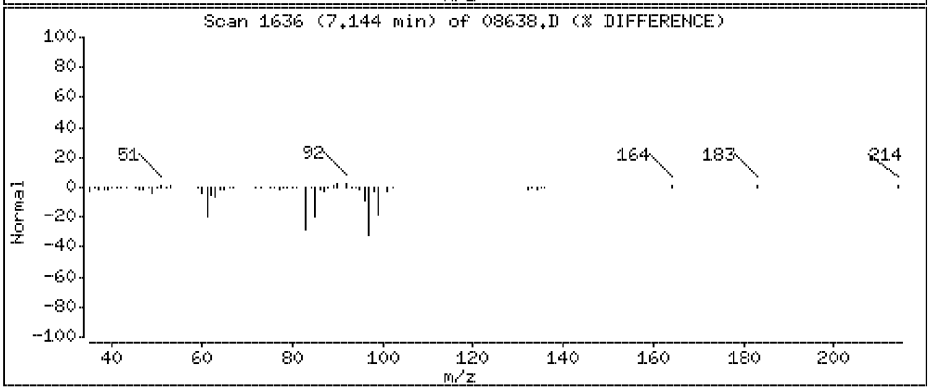












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

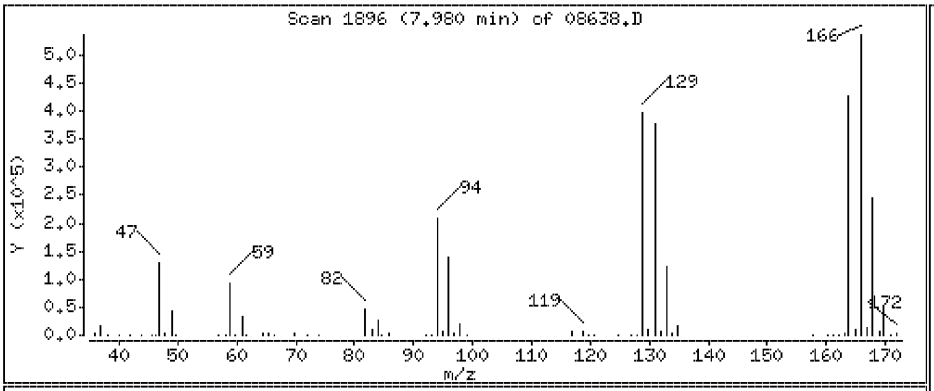
Operator: NCK

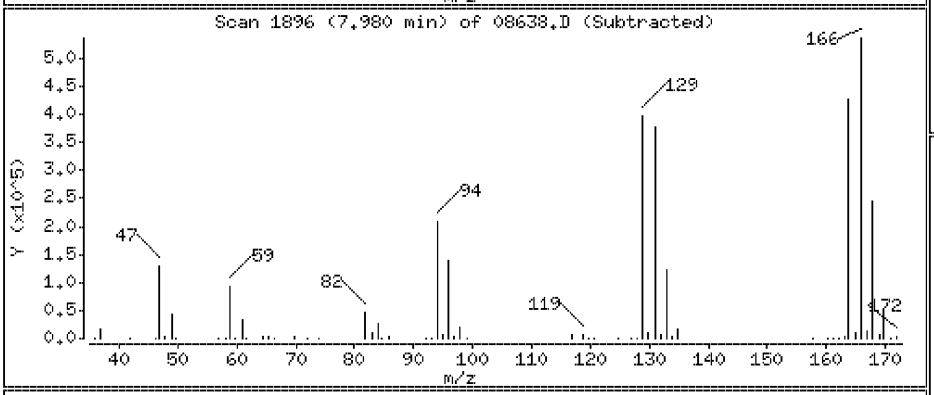
Column phase: J&W DB-5

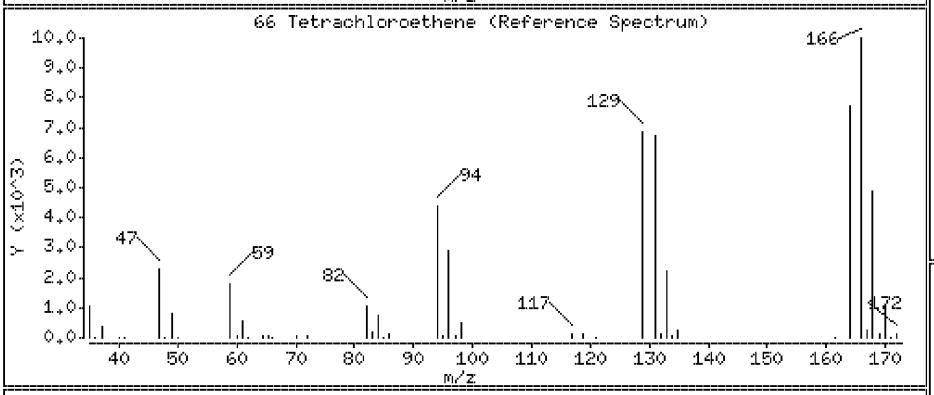
Column diameter: 0.32

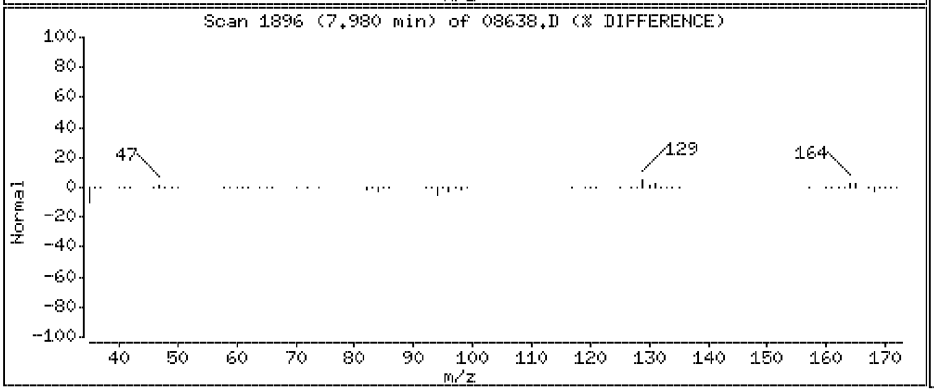
66 Tetrachloroethene

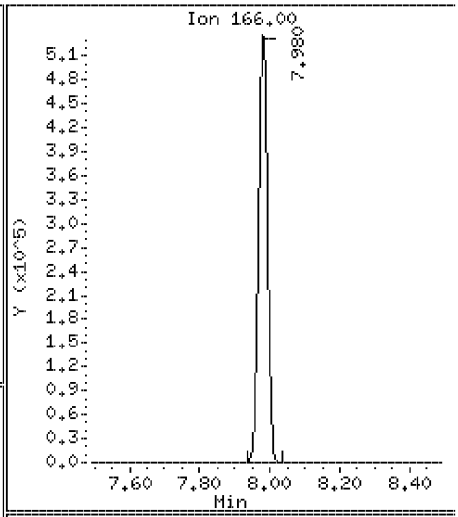
Concentration: 16.5 ppbv

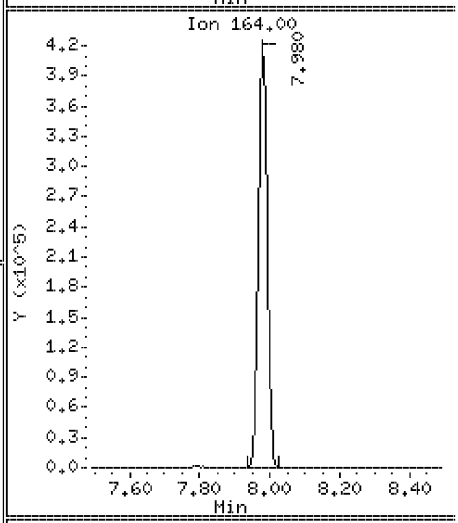


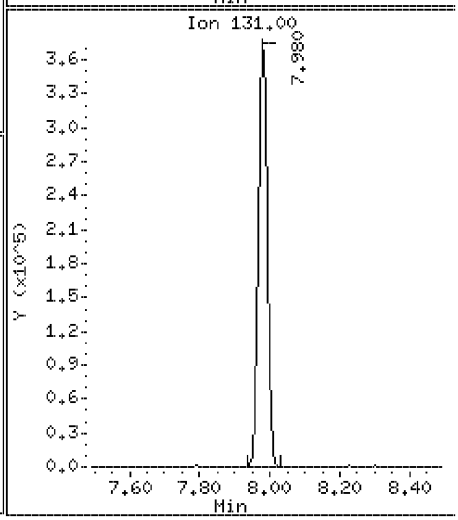












Data File: \\192.168.10.12\chem\10airB.i\032717.b\08638.D

Date : 28-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

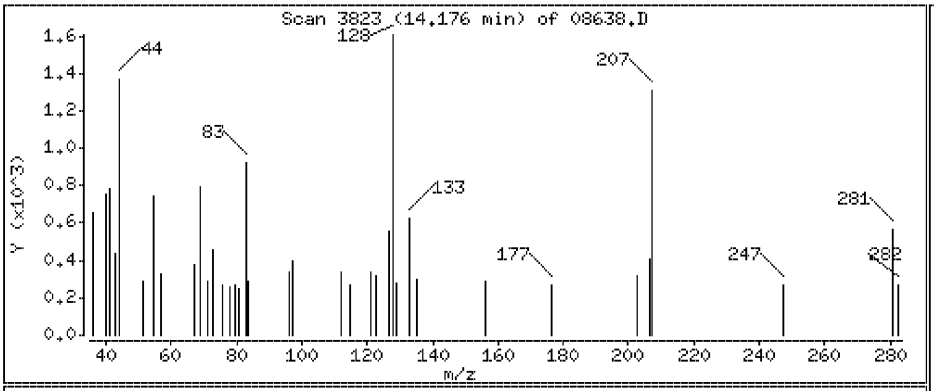
Operator: NCK

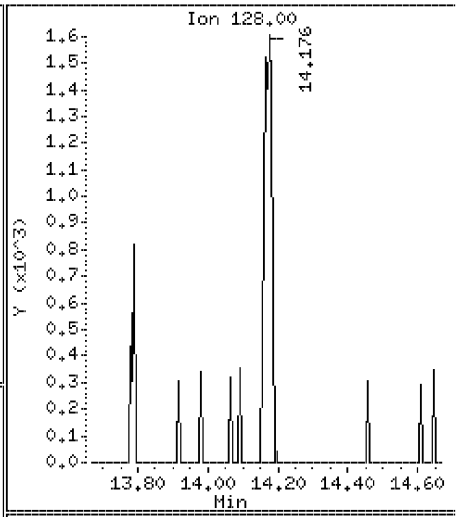
Column phase: J&W DB-5

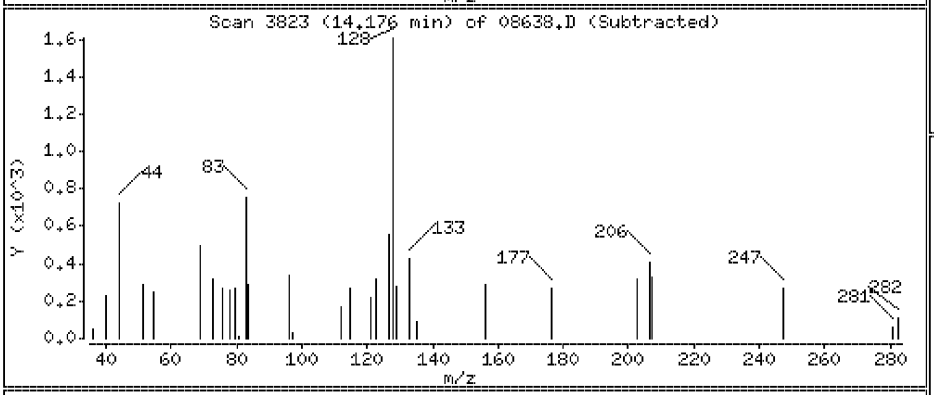
Column diameter: 0.32

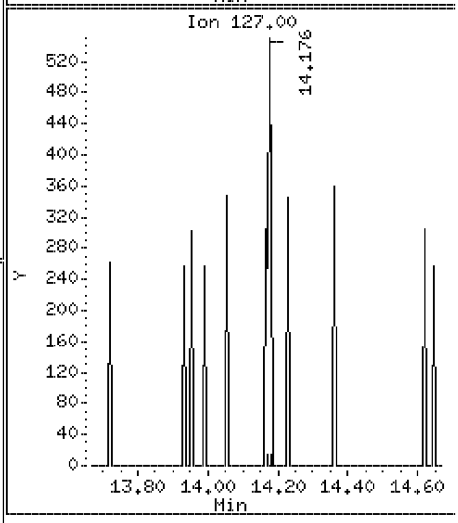
94 Naphthalene

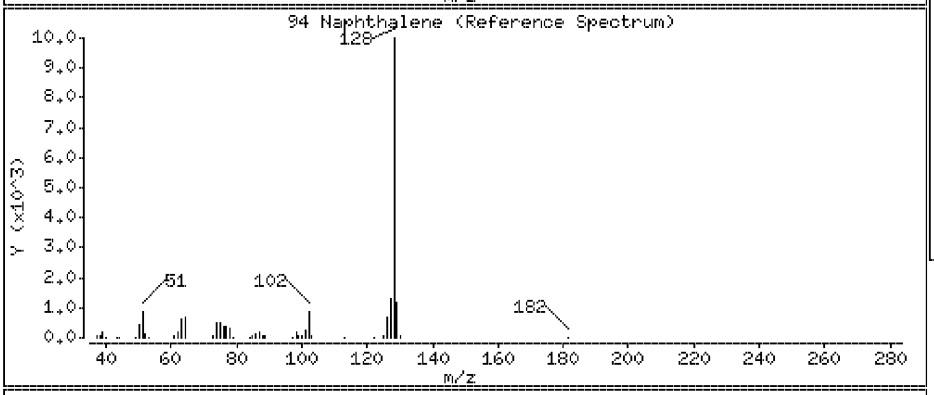
Concentration: 0.665 ppbv

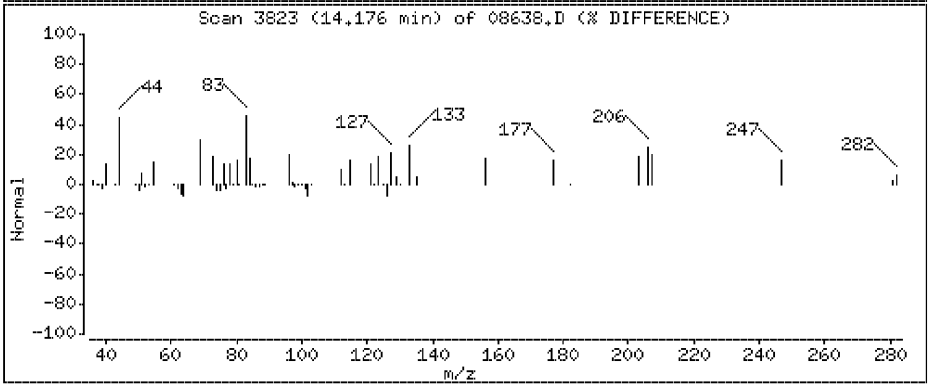












Data File: \\192.168.10.12\chem\10airB.i\032717.b/08638.D
Injection Date: 28-MAR-2017 03:53
Instrument: 10airB.i
Lab Sample ID: 10381335003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_5_20170306 **Lab ID: 10381335003** Collected: 03/06/17 13:08 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/28/17 03:53	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.3	0.65	1.83		03/28/17 03:53	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/28/17 03:53	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/28/17 03:53	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/28/17 03:53	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/28/17 03:53	108-87-2	
Methylene Chloride	**6.7**	ug/m3	6.5	0.99	1.83		03/28/17 03:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/28/17 03:53	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/28/17 03:53	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/28/17 03:53	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/28/17 03:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/28/17 03:53	79-34-5	
Tetrachloroethene	**114**	ug/m3	1.3	0.51	1.83		03/28/17 03:53	127-18-4	
Toluene	**1.7**	ug/m3	1.4	0.28	1.83		03/28/17 03:53	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/28/17 03:53	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/28/17 03:53	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/28/17 03:53	79-00-5	
Trichloroethene	**184**	ug/m3	1.0	0.51	1.83		03/28/17 03:53	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.1	0.24	1.83		03/28/17 03:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.5J**	ug/m3	2.9	0.55	1.83		03/28/17 03:53	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/28/17 03:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/28/17 03:53	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/28/17 03:53	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/28/17 03:53	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/28/17 03:53	95-47-6	

Sample: VP-107_13_20170306 **Lab ID: 10381335004** Collected: 03/06/17 13:43 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**86.2**	ug/m3	4.2	1.5	1.75		03/28/17 17:33	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/28/17 17:33	107-05-1	
Benzene	**0.31J**	ug/m3	0.57	0.21	1.75		03/28/17 17:33	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/28/17 17:33	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/28/17 17:33	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/28/17 17:33	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/28/17 17:33	106-99-0	
2-Butanone (MEK)	**6.6**	ug/m3	5.2	0.40	1.75		03/28/17 17:33	78-93-3	
Carbon disulfide	**0.62J**	ug/m3	1.1	0.18	1.75		03/28/17 17:33	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/28/17 17:33	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/28/17 17:33	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/28/17 17:33	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/28/17 17:33	75-00-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_13_20170306 **Lab ID: 10381335004** Collected: 03/06/17 13:43 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Chloroform	**2.3**	ug/m3	0.87	0.33	1.75		03/28/17 17:33	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/28/17 17:33	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 17:33	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/28/17 17:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/28/17 17:33	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/28/17 17:33	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/28/17 17:33	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/28/17 17:33	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/28/17 17:33	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/28/17 17:33	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	0.84	1.75		03/28/17 17:33	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/28/17 17:33	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/28/17 17:33	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 17:33	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/28/17 17:33	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/28/17 17:33	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/28/17 17:33	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/28/17 17:33	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	4.0	0.46	1.75		03/28/17 17:33	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/28/17 17:33	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 17:33	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/28/17 17:33	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/28/17 17:33	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/28/17 17:33	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/28/17 17:33	87-68-3	
n-Hexane	**2.4**	ug/m3	1.3	0.62	1.75		03/28/17 17:33	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/28/17 17:33	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/28/17 17:33	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/28/17 17:33	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 17:33	108-87-2	
Methylene Chloride	**9.3**	ug/m3	6.2	0.95	1.75		03/28/17 17:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/28/17 17:33	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/28/17 17:33	1634-04-4	
2-Propanol	**3.6J**	ug/m3	4.4	0.42	1.75		03/28/17 17:33	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/28/17 17:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/28/17 17:33	79-34-5	
Tetrachloroethene	**<0.49**	ug/m3	1.2	0.49	1.75		03/28/17 17:33	127-18-4	
Toluene	**3.6**	ug/m3	1.3	0.27	1.75		03/28/17 17:33	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/28/17 17:33	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/28/17 17:33	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/28/17 17:33	79-00-5	
Trichloroethene	**53.0**	ug/m3	0.96	0.48	1.75		03/28/17 17:33	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.0	0.23	1.75		03/28/17 17:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.72J**	ug/m3	2.8	0.53	1.75		03/28/17 17:33	76-13-1	
1,2,4-Trimethylbenzene	**1.1J**	ug/m3	1.7	0.22	1.75		03/28/17 17:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/28/17 17:33	108-67-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D
Report Date: 03-Apr-2017 15:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08717.D
Lab Smp Id: 10381335004
Inj Date : 28-MAR-2017 17:33
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 17
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.028	(0.547)	44190	0.32198	0.563	(M)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.545	3.539	(0.633)	49860	3.01598	5.28	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.581	3.581	(0.640)	11015	0.23413	0.410	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.655	3.658	(0.653)	13407	0.13955	0.244	
17	Acrolein	56	3.668	3.674	(0.655)	8272	0.54752	0.958	
18	Acetone	43	3.703	3.713	(0.662)	1328855	20.4001	35.7	
19	Isopropyl Alcohol	45	3.761	3.764	(0.672)	59957	0.81773	1.43	(QM)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.938	3.938	(0.704)	4059	0.05261	0.0921	
23	Methyl Acetate	43	3.951	3.954	(0.706)	19326	0.18042	0.316	(Q)
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D
Report Date: 03-Apr-2017 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	3.996	3.999	(0.714)	75451	1.51095	2.64	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	4.105	4.111	(0.733)	9929	0.11268	0.197	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	4.430	4.385	(0.791)	60218	0.54960	0.962(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.478	(0.800)	869484	9.29628	9.30	
	33 Methyl Ethyl Ketone	72	4.552	4.549	(0.813)	25021	1.25335	2.19(Q)	
	34 n-Hexane	57	4.571	4.574	(0.817)	28202	0.38236	0.669(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.713	4.712	(0.842)	23898	0.25236	0.442(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.815	4.838	(0.860)	21477	0.26179	0.458	
	40 Tetrahydrofuran	42	4.999	4.992	(0.893)	5488	0.09628	0.168(Q)	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.452	5.462	(0.974)	7799	0.05423	0.0949	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	2493282	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.970	5.986	(1.067)	418768	5.54860	9.71	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.073	(1.263)	2026777	9.64233	9.64	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.150	(1.276)	93709	0.53548	0.937	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.565	7.581	(0.876)	41997	0.36447	0.638(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						(D)
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1466500	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.073	9.079	(1.051)	34180	0.20814	0.364	
	71 n-Nonane	43	9.462	9.471	(1.096)	33821	0.33059	0.579	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.574	9.577	(1.109)	18236	0.10820	0.189	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D
Report Date: 03-Apr-2017 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.375	11.378	(2.032)	21066	0.19512	0.341(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.507	11.510	(1.332)	20552	0.12916	0.226	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	726898	10.4413	10.4	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	11.883	11.889	(1.376)	1830	0.02860	0.0500(aQ)	
88	p-Isopropyltoluene	119	11.986	11.986	(1.388)	28948	0.15238	0.267	
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.169	(1.642)	15520	0.58694	1.03(QM)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D
Report Date: 03-Apr-2017 15:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08717.D
Lab Smp Id: 10381335004
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

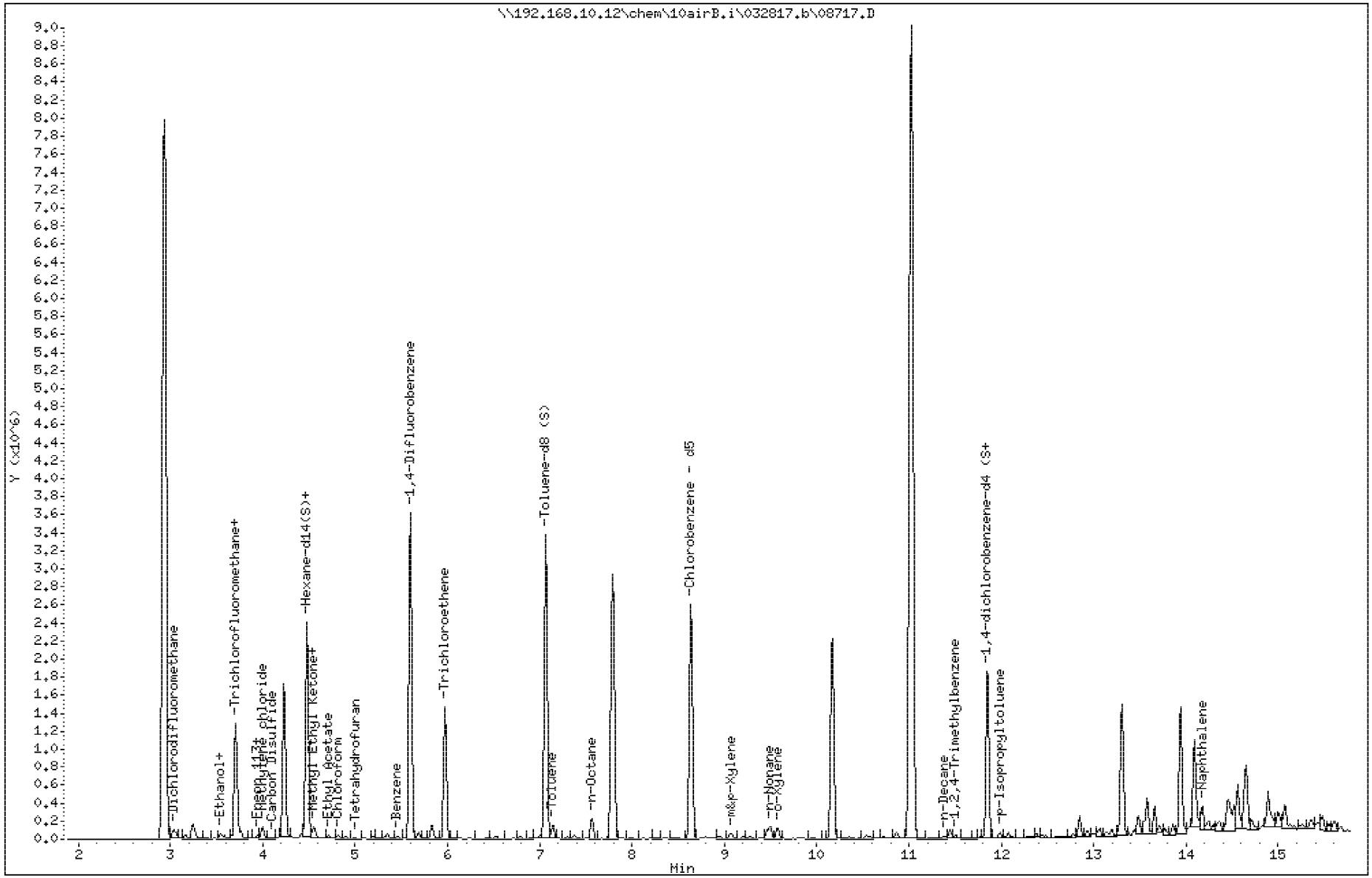
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2493282	-11.95
67 Chlorobenzene - d	1804482	1082689	2526275	1466500	-18.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D
Date : 28-MAR-2017 17:33
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

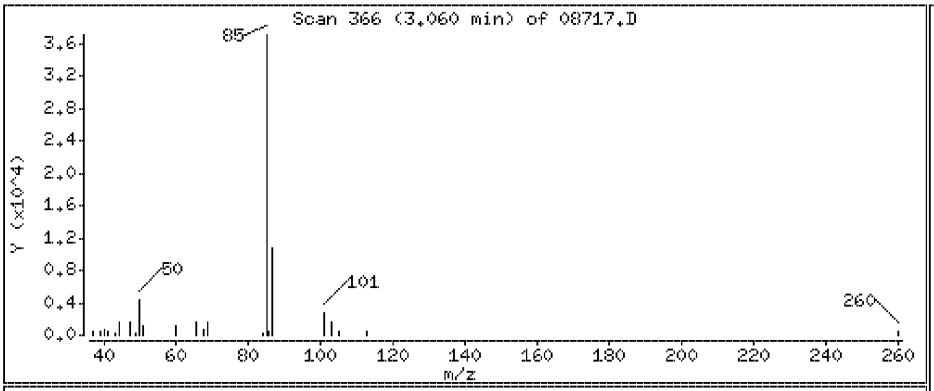
Operator: NCK

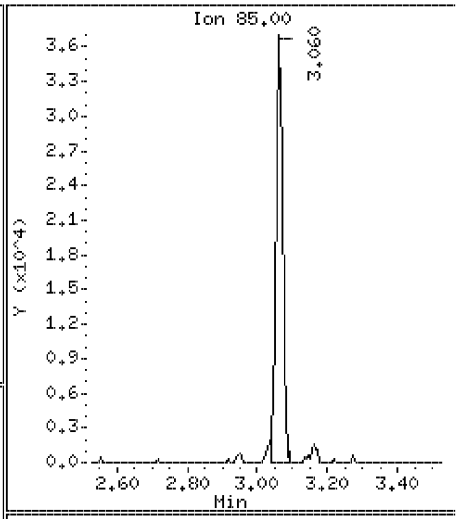
Column phase: J&W DB-5

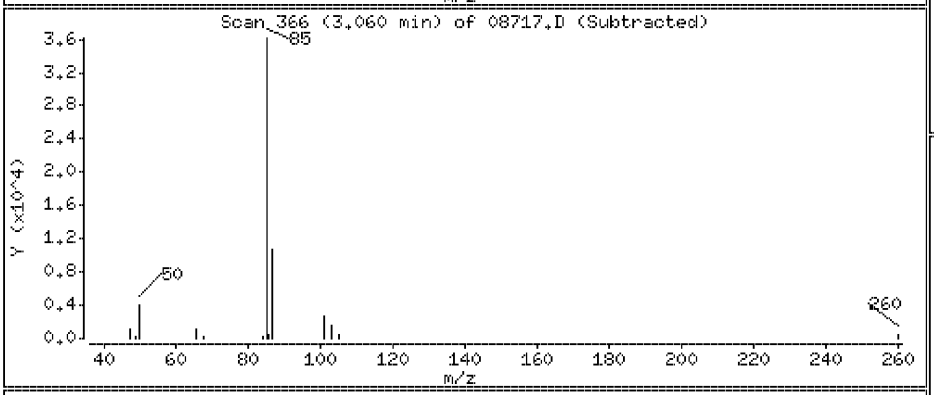
Column diameter: 0.32

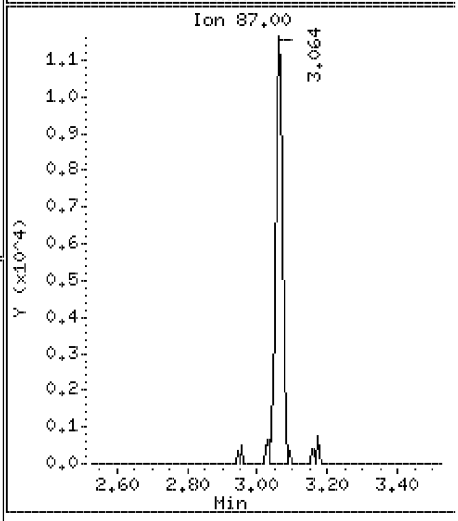
5 Dichlorodifluoromethane

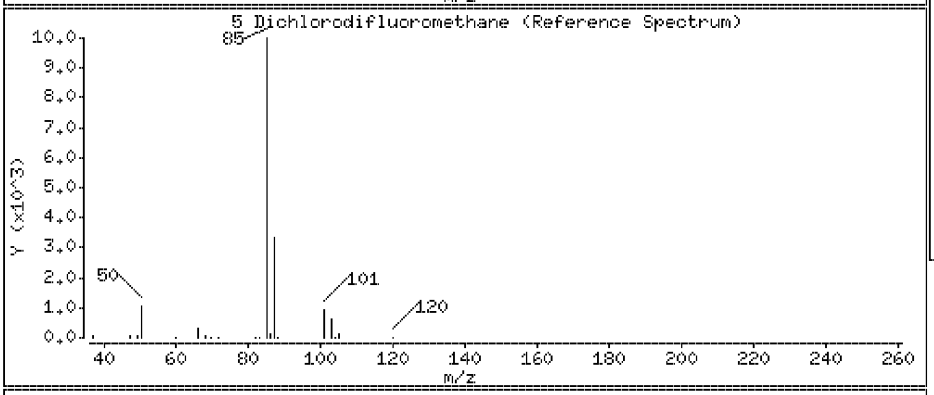
Concentration: 0.563 ppbv

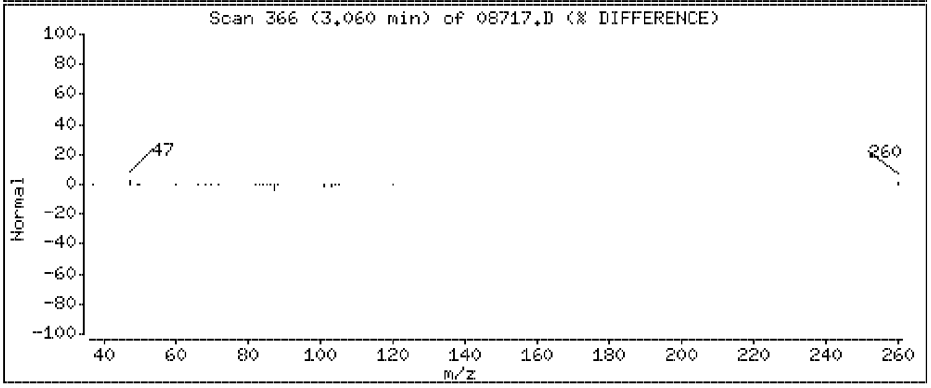












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

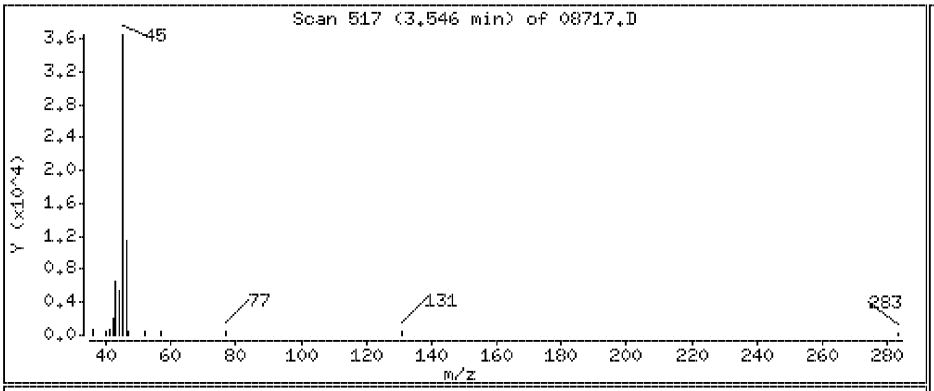
Operator: NCK

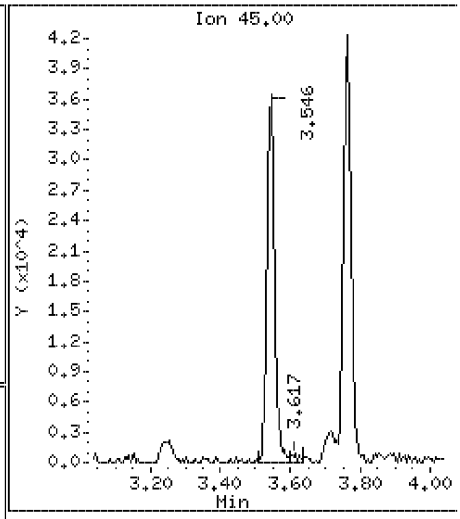
Column phase: J&W DB-5

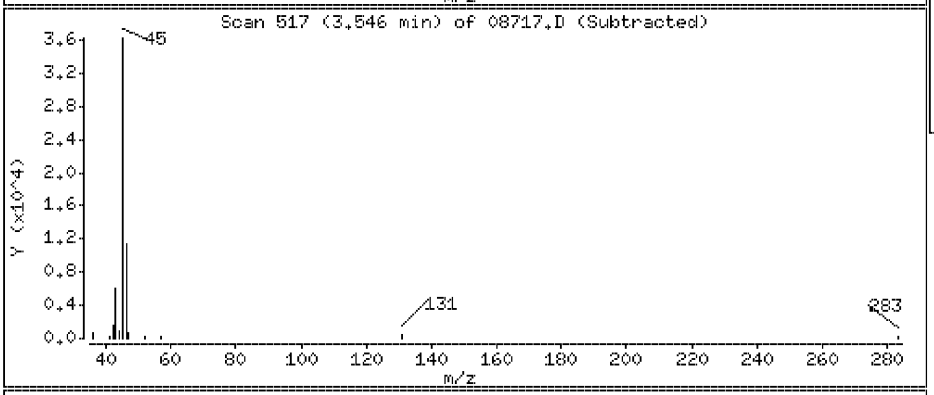
Column diameter: 0.32

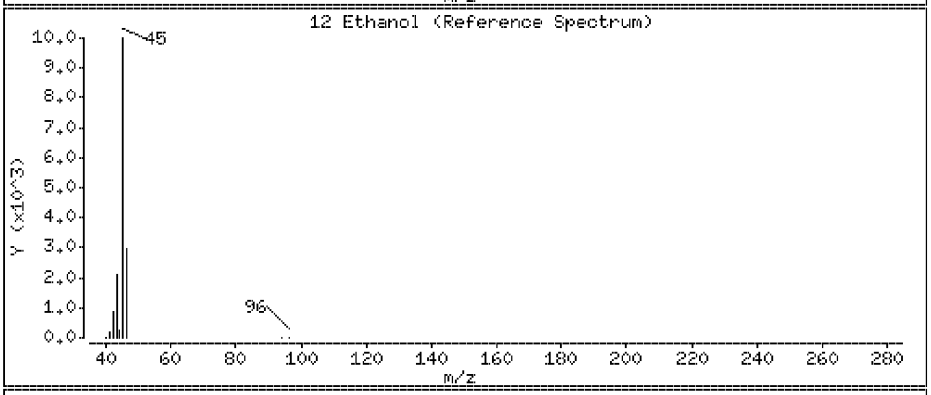
12 Ethanol

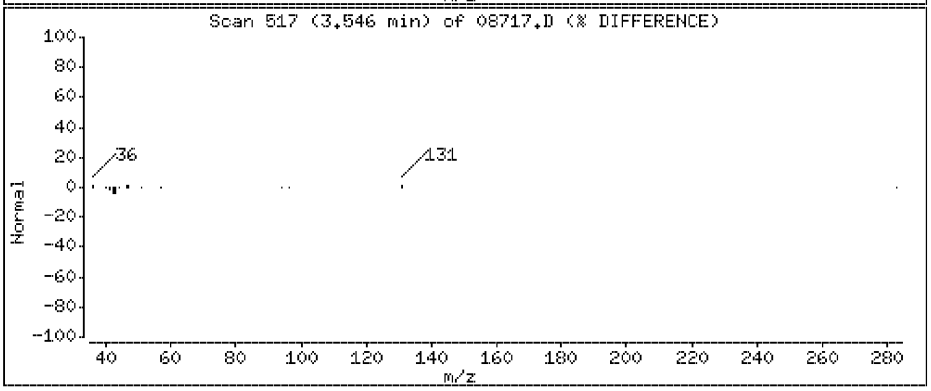
Concentration: 5.28 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

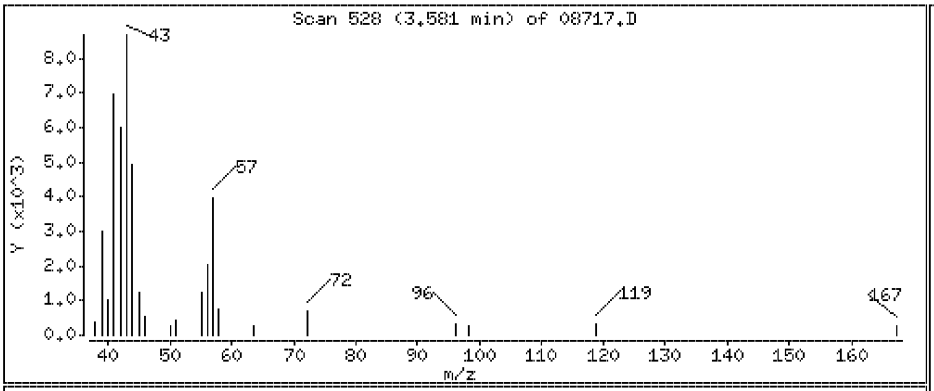
Operator: NCK

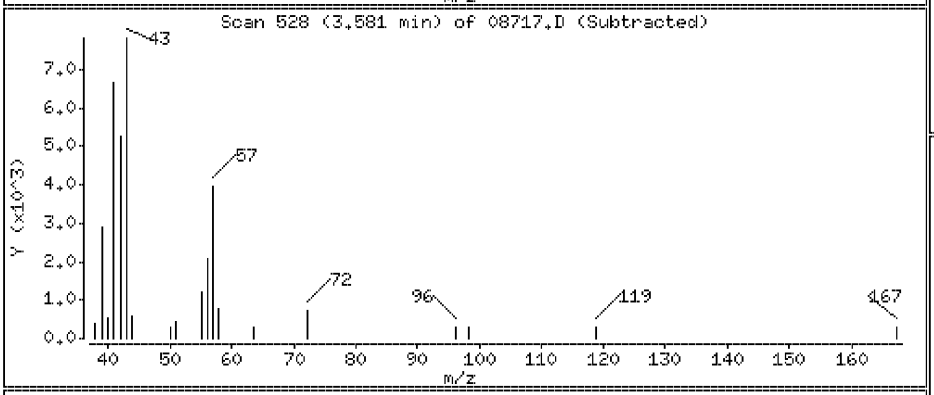
Column phase: J&W DB-5

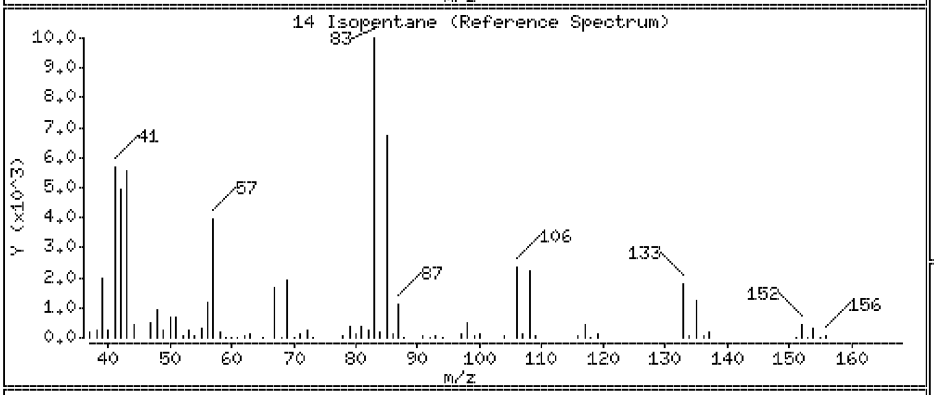
Column diameter: 0.32

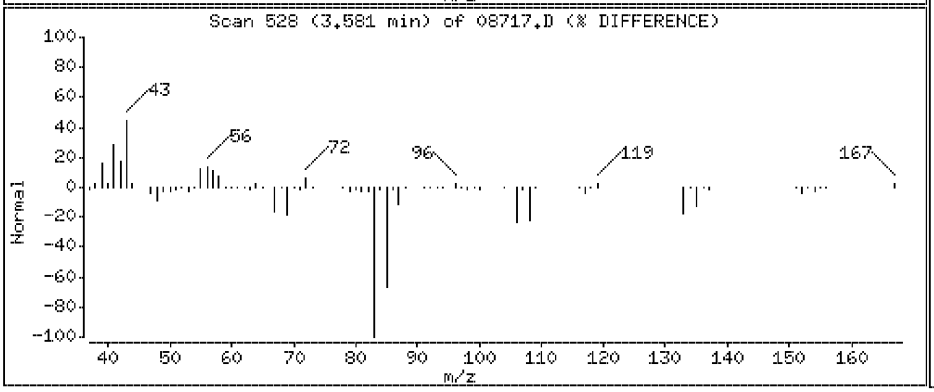
14 Isopentane

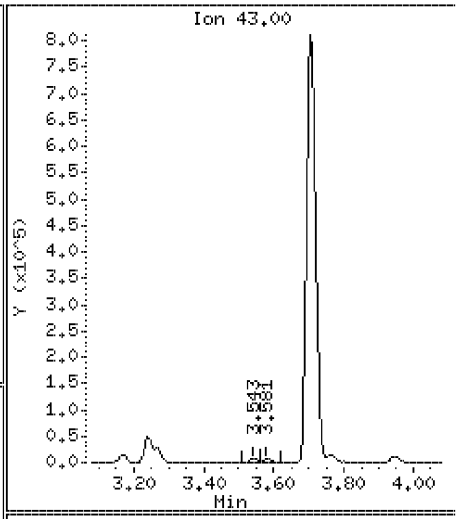
Concentration: 0.410 ppbv

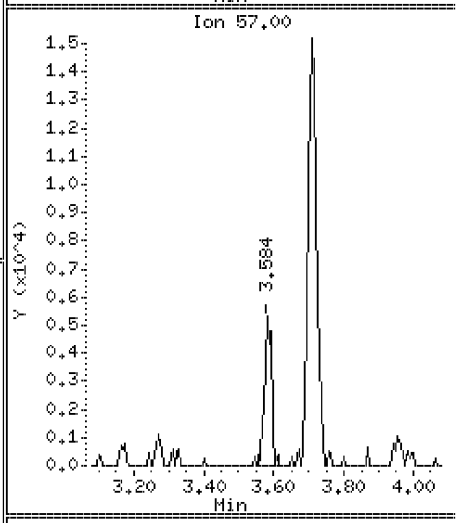


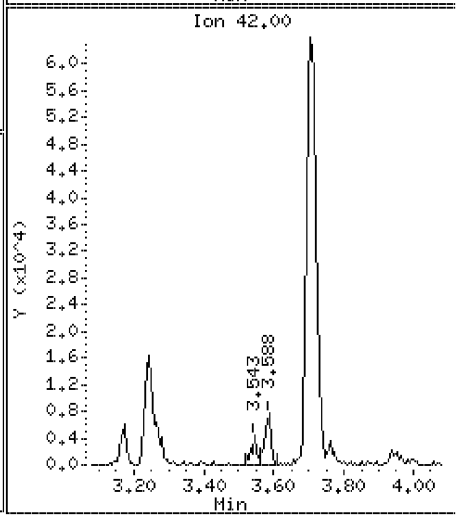












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

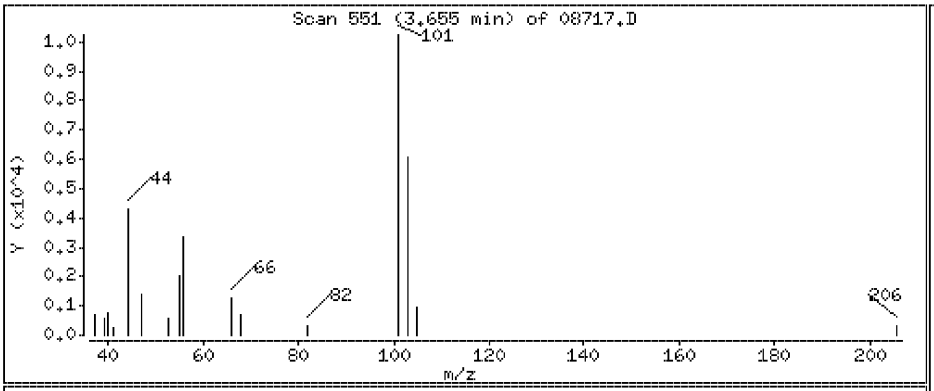
Operator: NCK

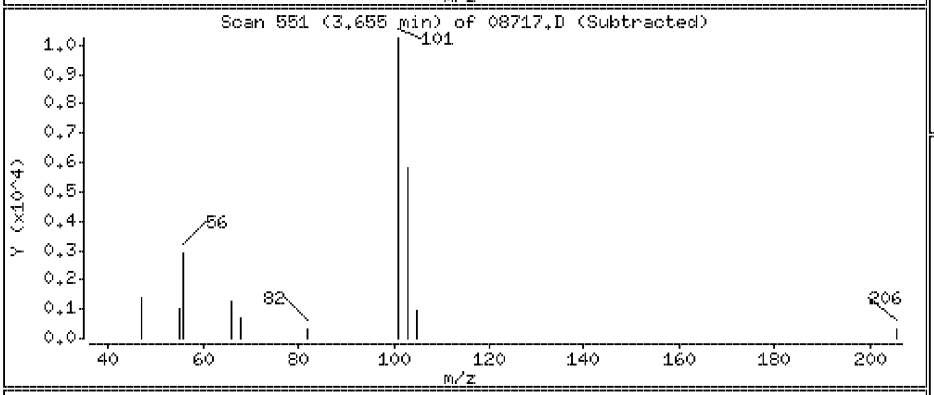
Column phase: J&W DB-5

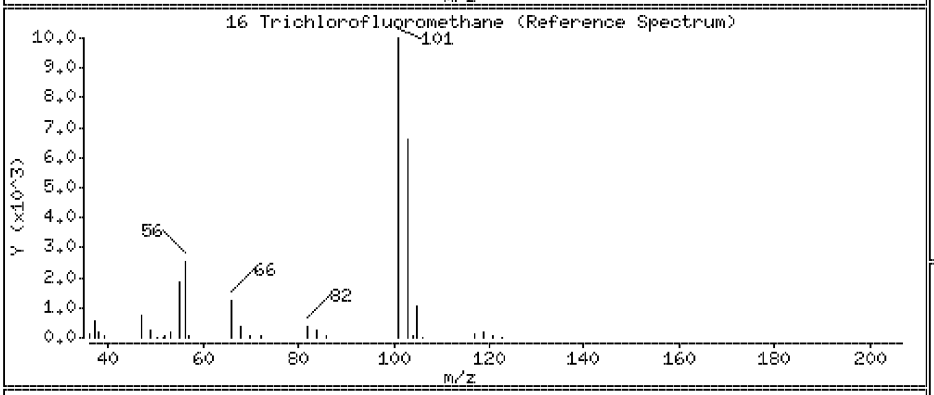
Column diameter: 0.32

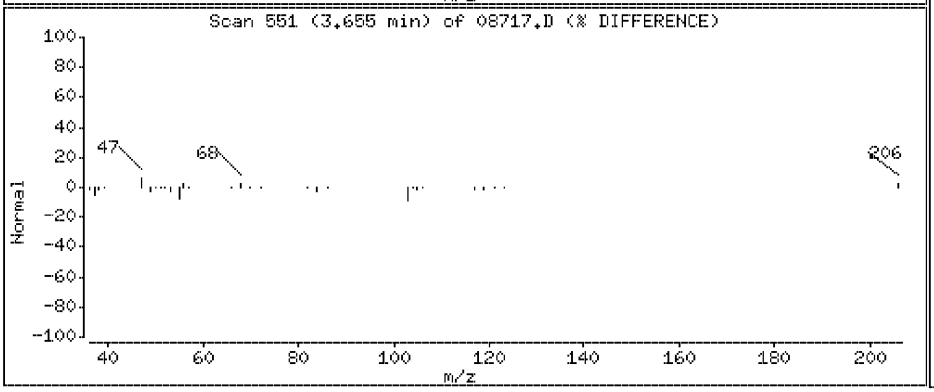
16 Trichlorofluoromethane

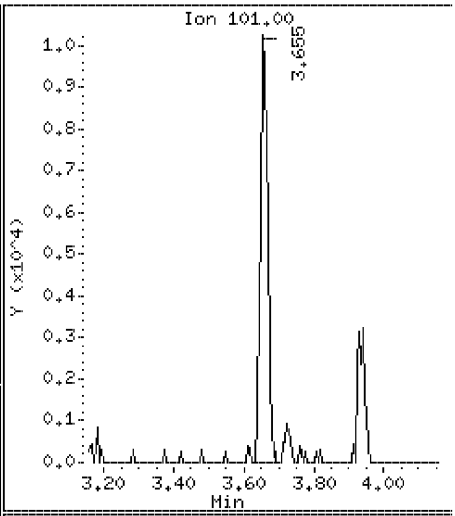
Concentration: 0.244 ppbv

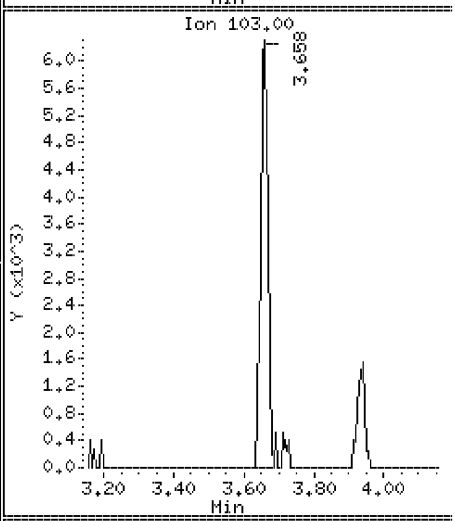


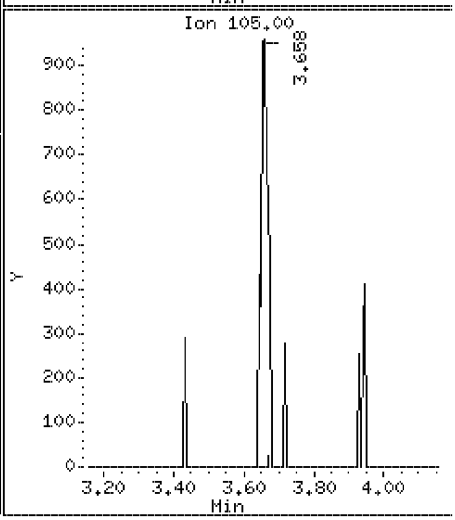












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

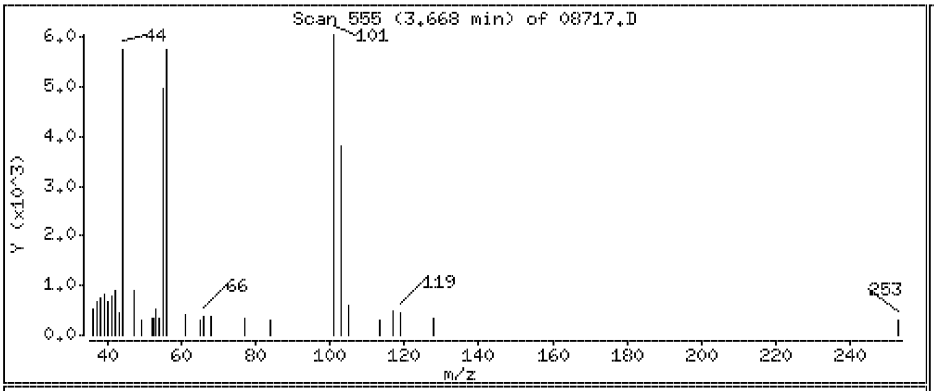
Operator: NCK

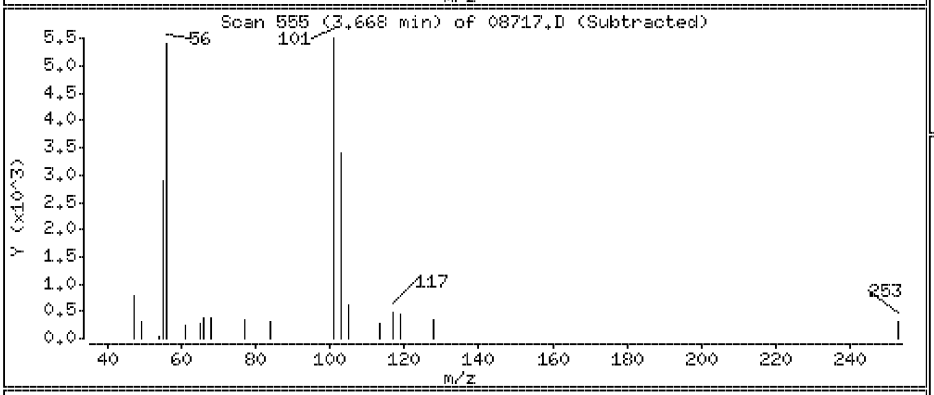
Column phase: J&W DB-5

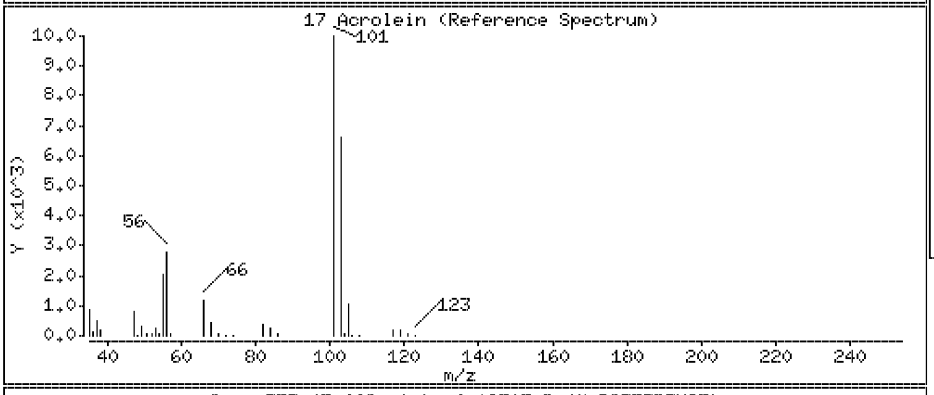
Column diameter: 0.32

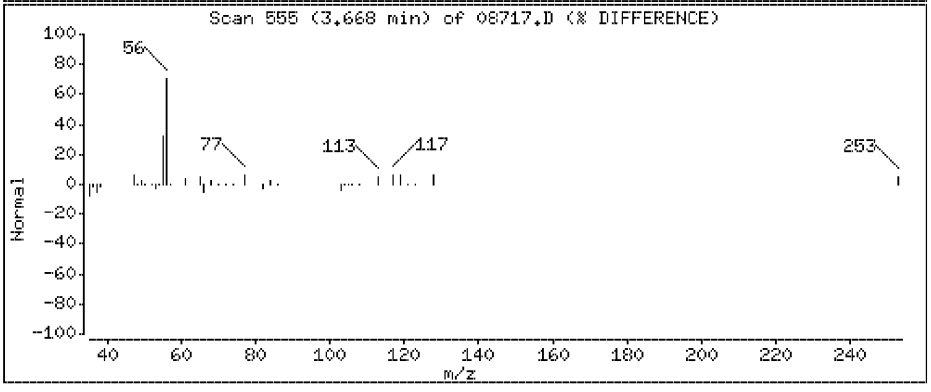
17 Acrolein

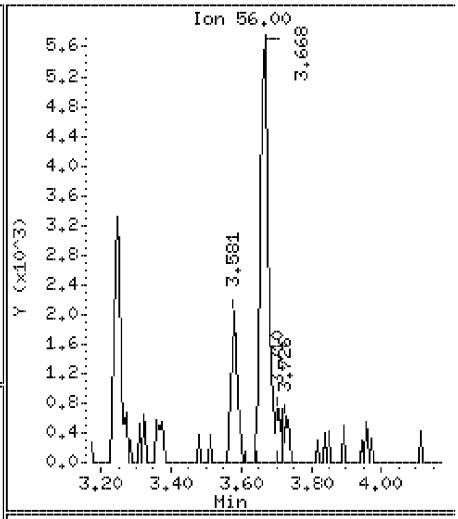
Concentration: 0.958 ppbv

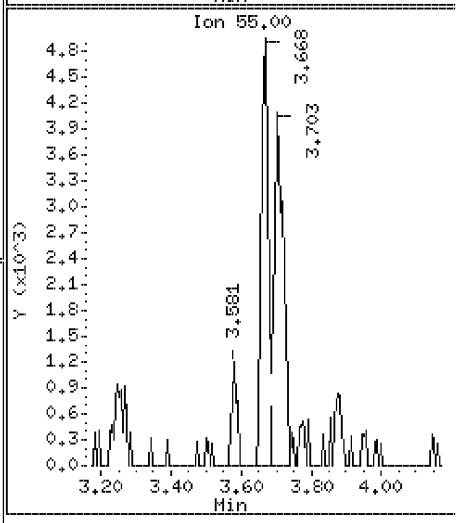












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

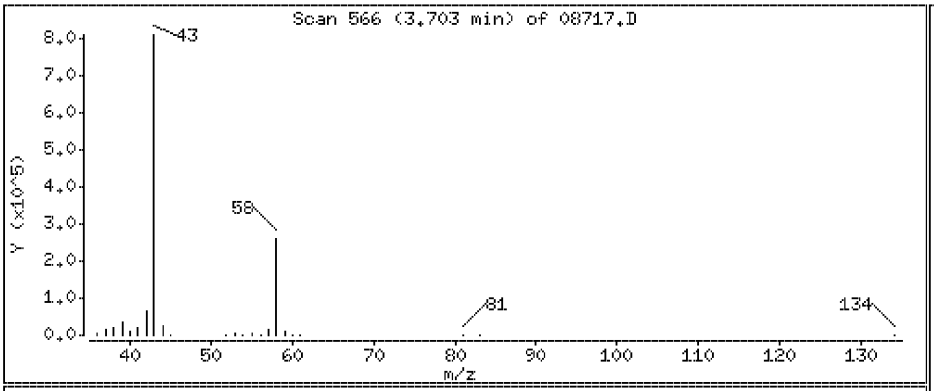
Operator: NCK

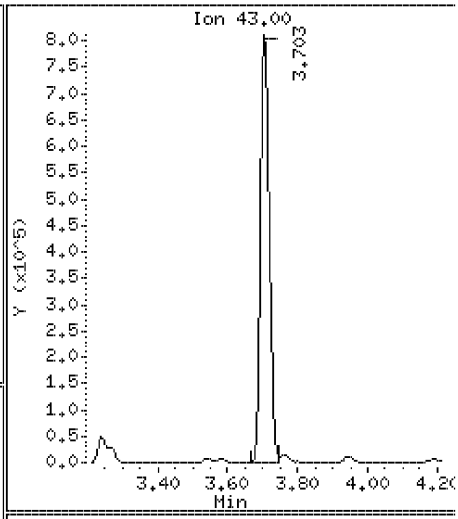
Column phase: J&W DB-5

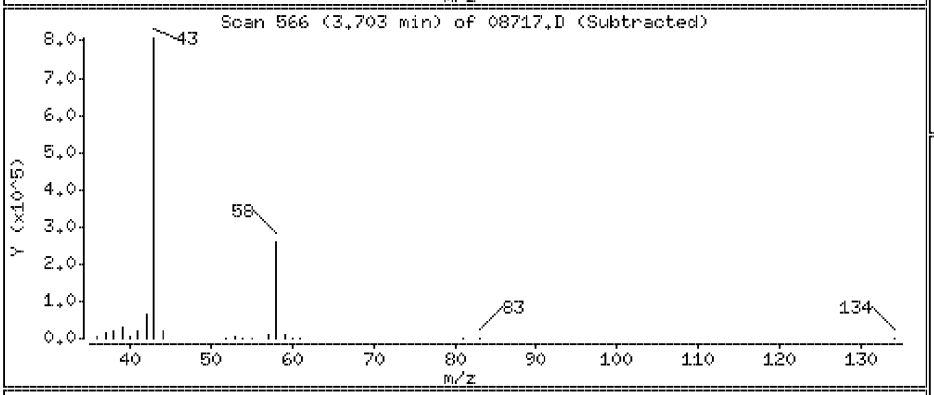
Column diameter: 0.32

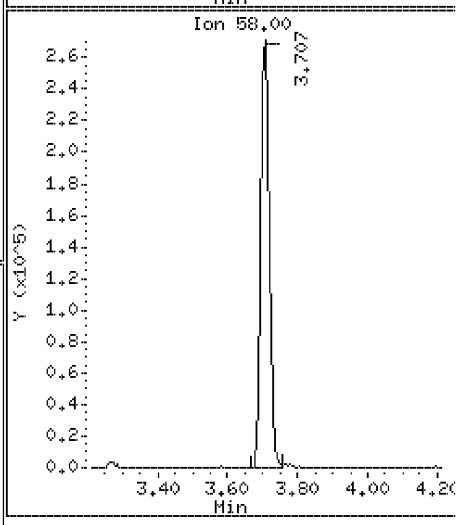
18 Acetone

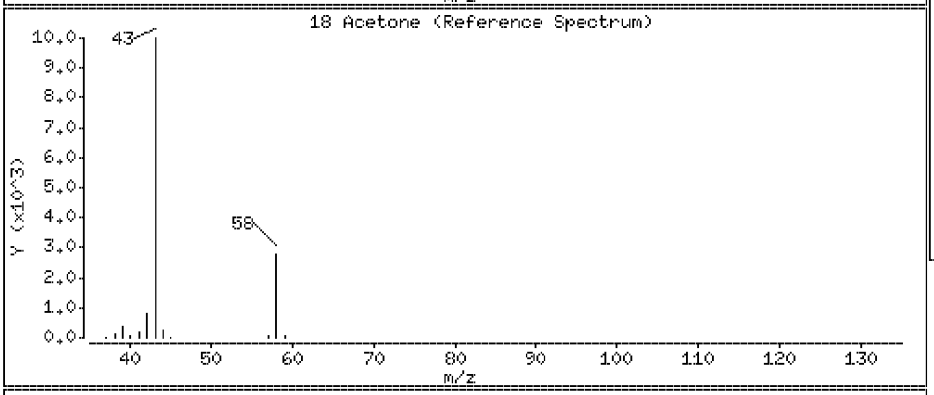
Concentration: 35.7 ppbv

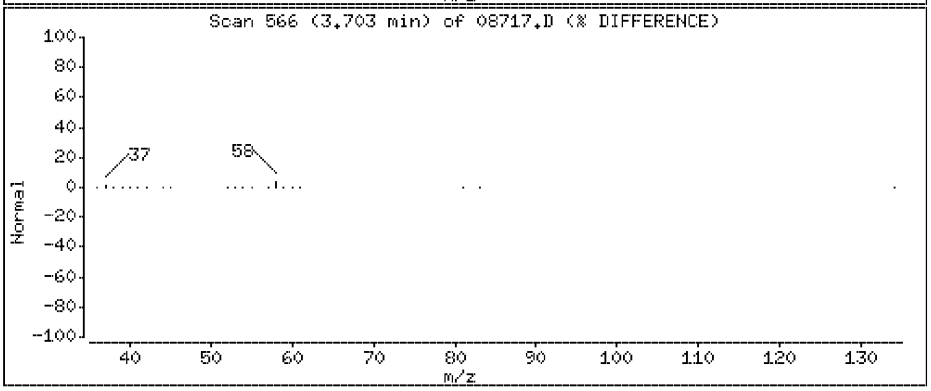












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

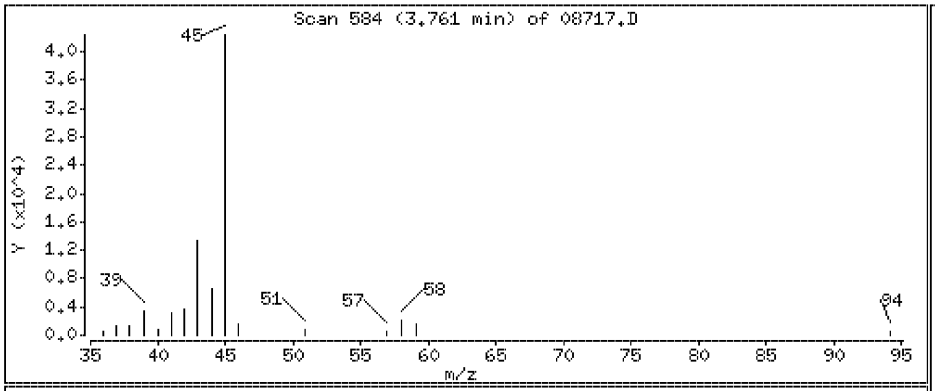
Operator: NCK

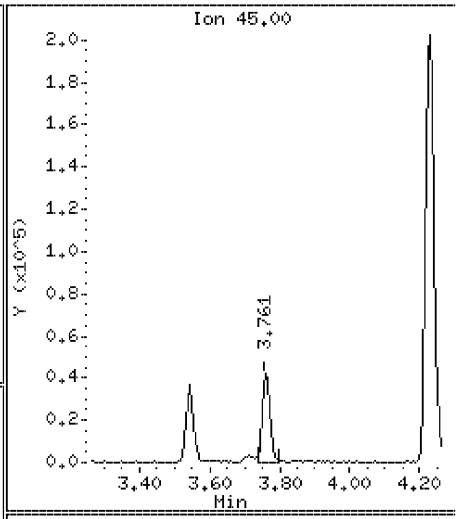
Column phase: J&W DB-5

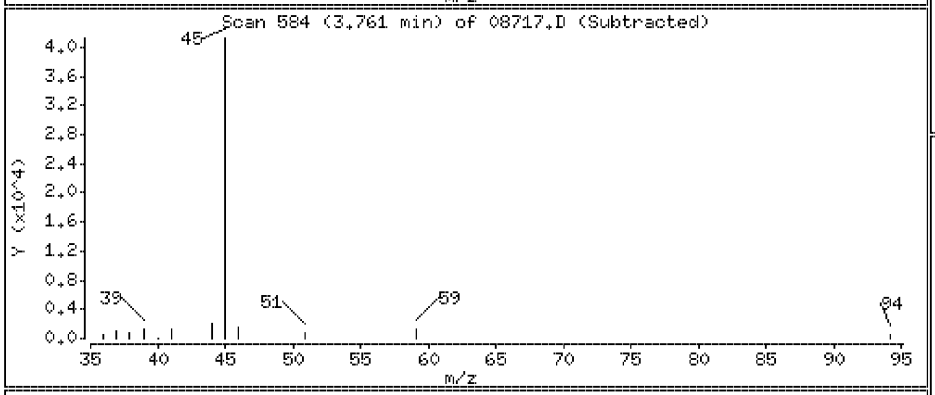
Column diameter: 0.32

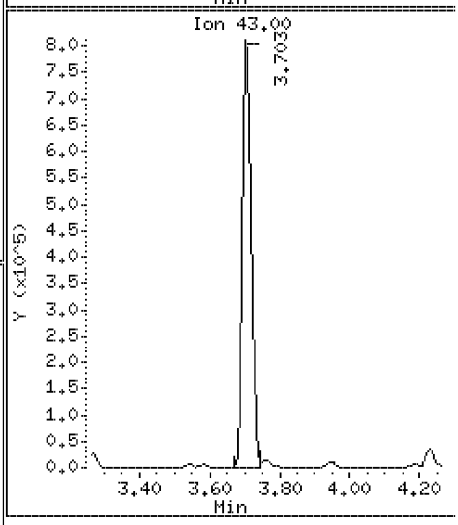
19 Isopropyl Alcohol

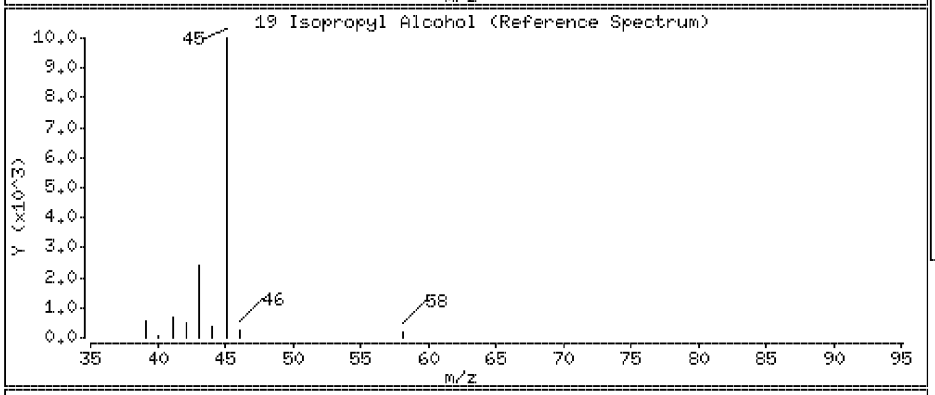
Concentration: 1.43 ppbv

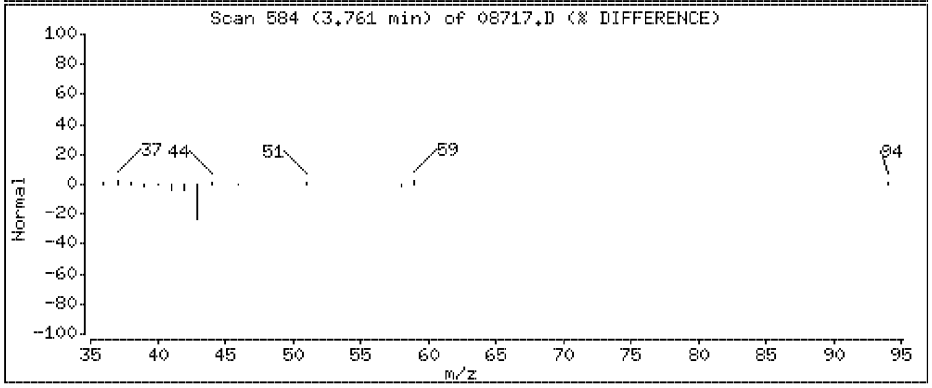












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

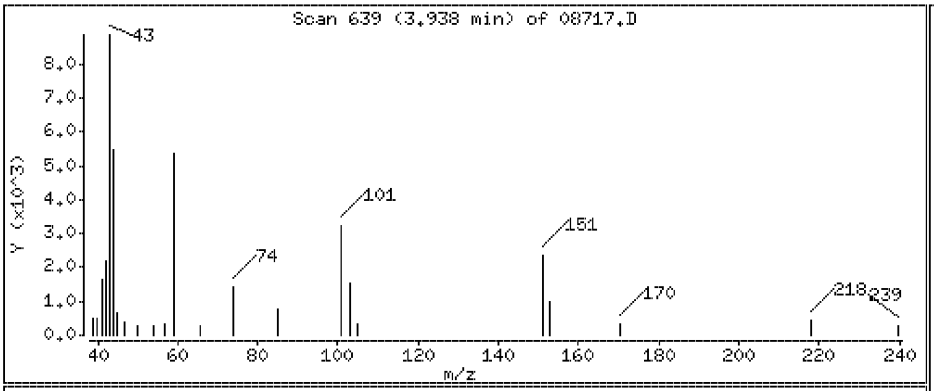
Operator: NCK

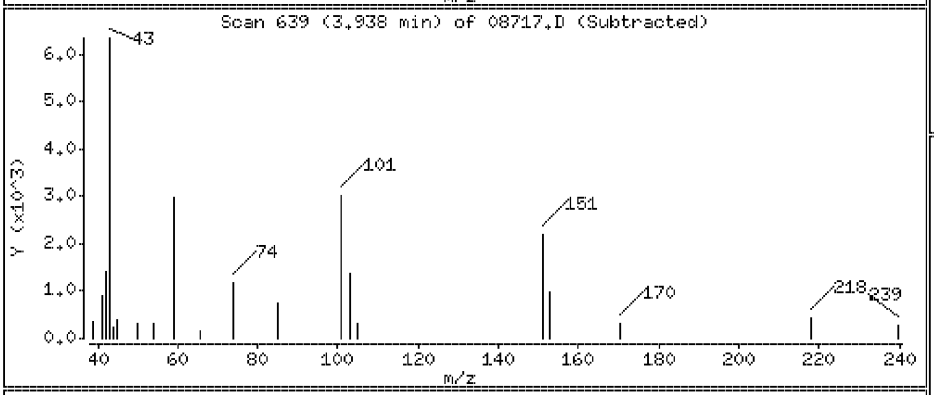
Column phase: J&W DB-5

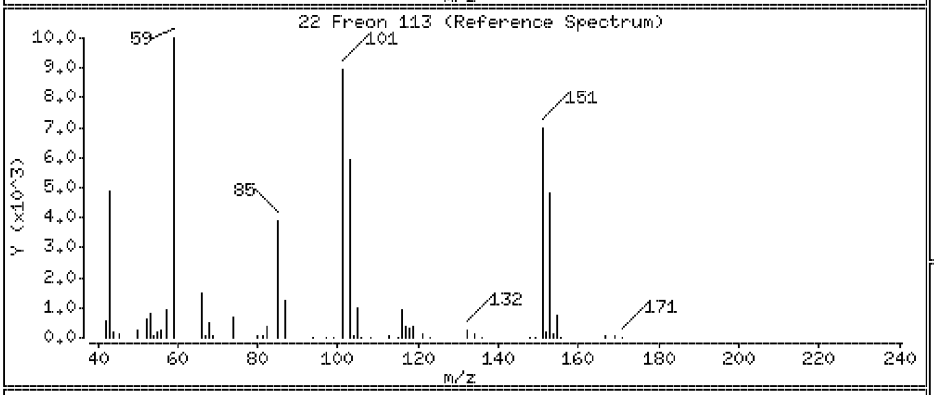
Column diameter: 0.32

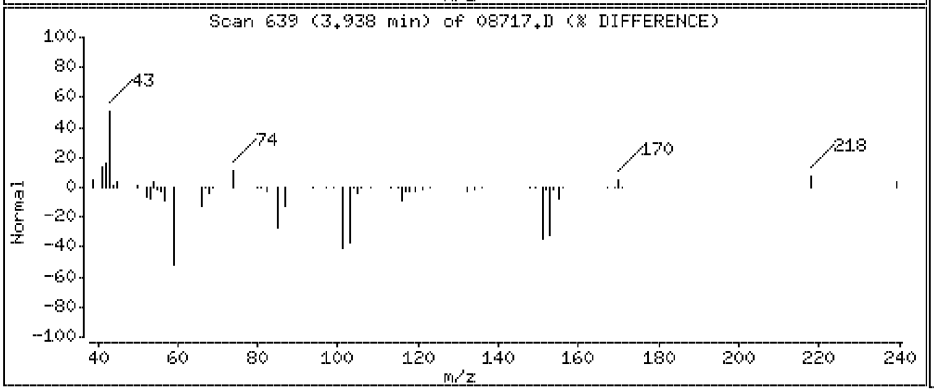
22 Freon 113

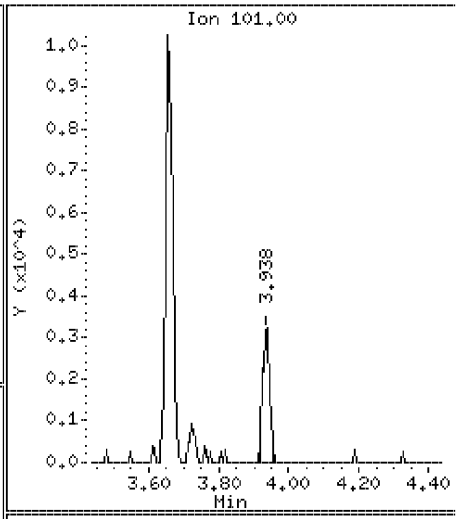
Concentration: 0.0921 ppbv

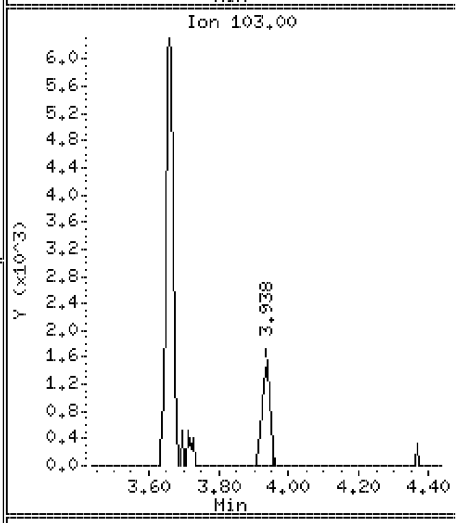


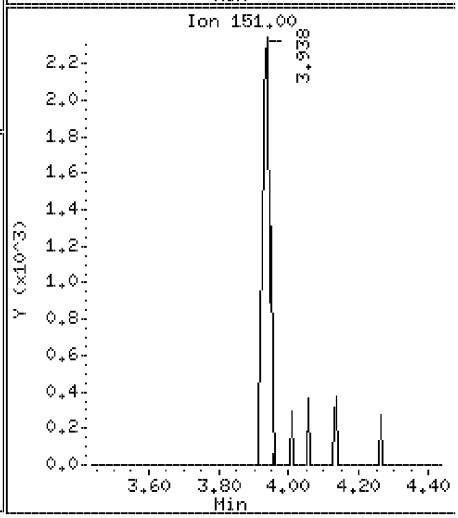












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

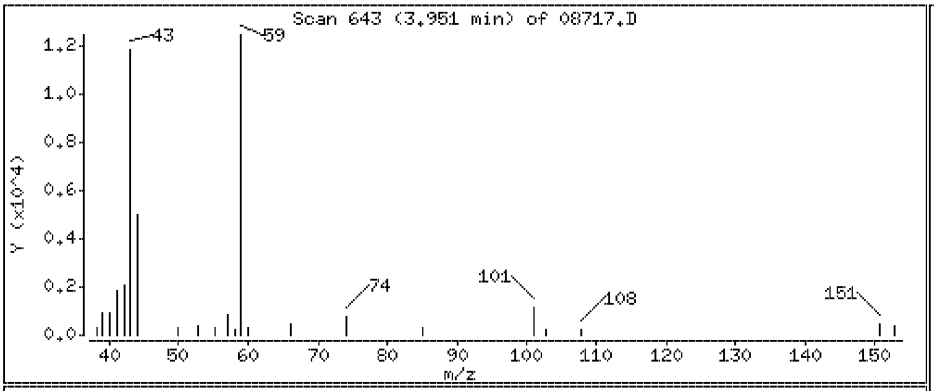
Operator: NCK

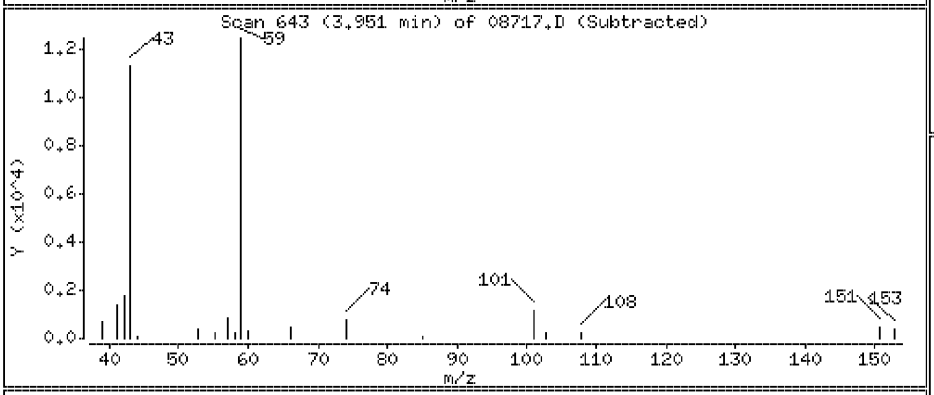
Column phase: J&W DB-5

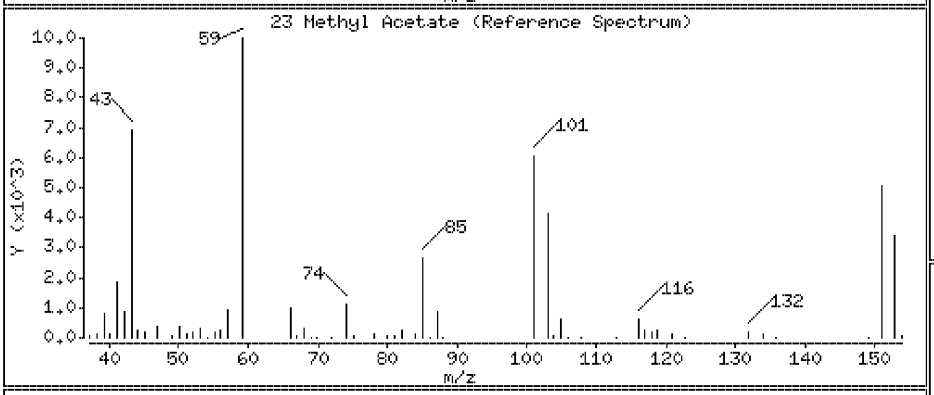
Column diameter: 0.32

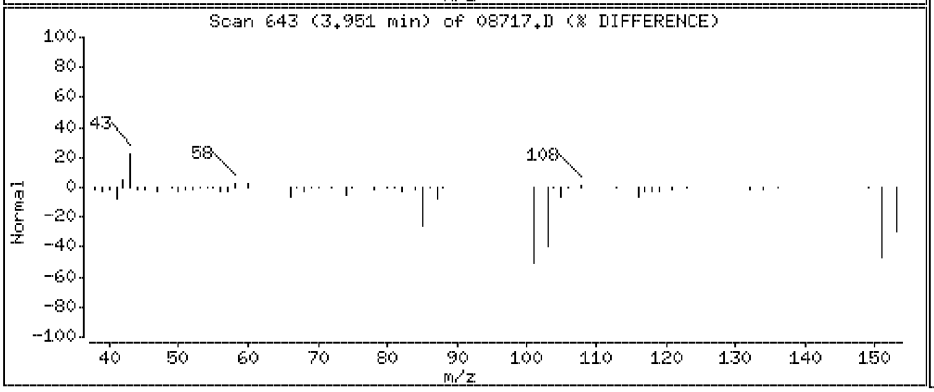
23 Methyl Acetate

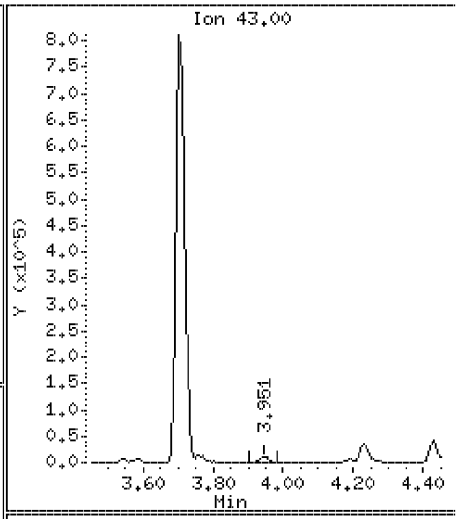
Concentration: 0.316 ppbv

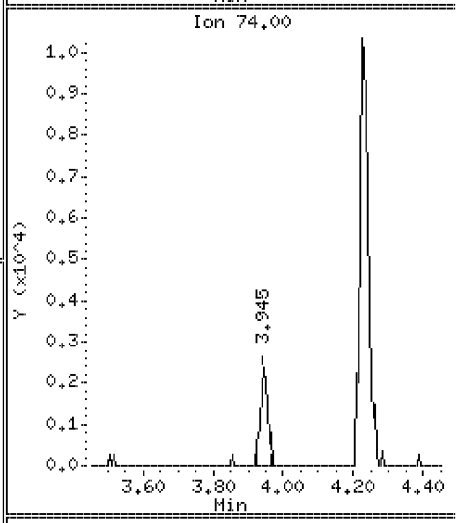


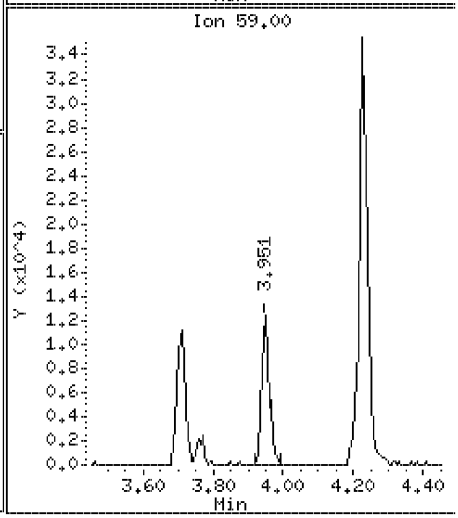












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

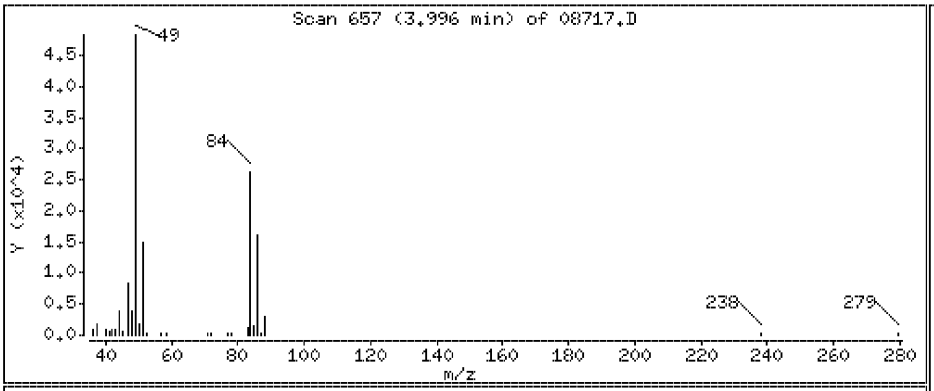
Operator: NCK

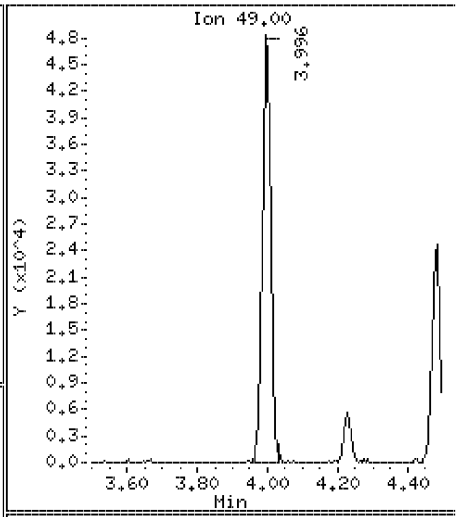
Column phase: J&W DB-5

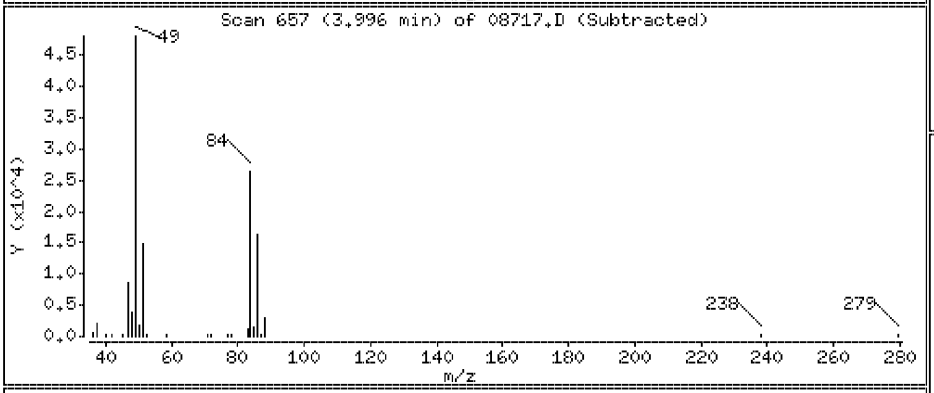
Column diameter: 0.32

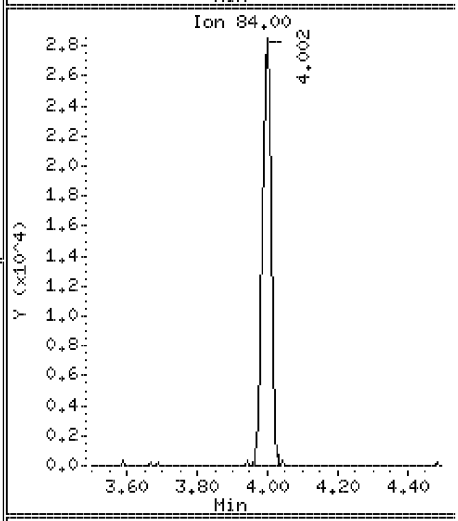
25 Methylene chloride

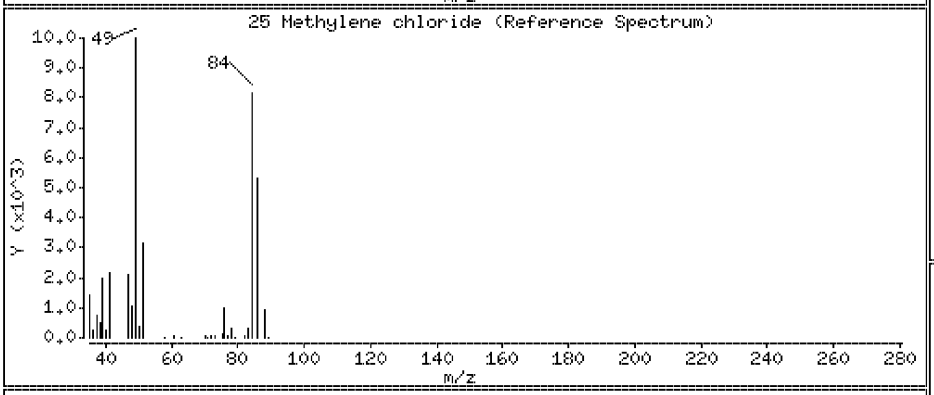
Concentration: 2.64 ppbv

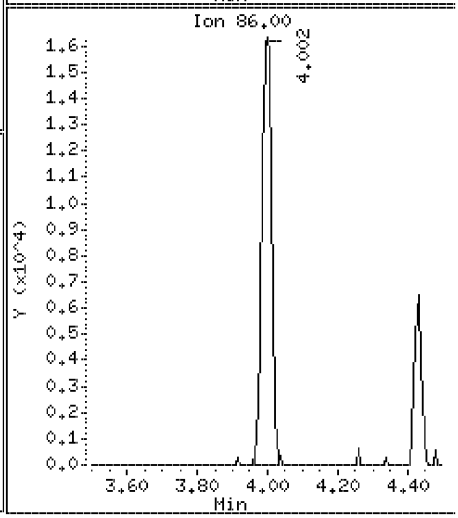


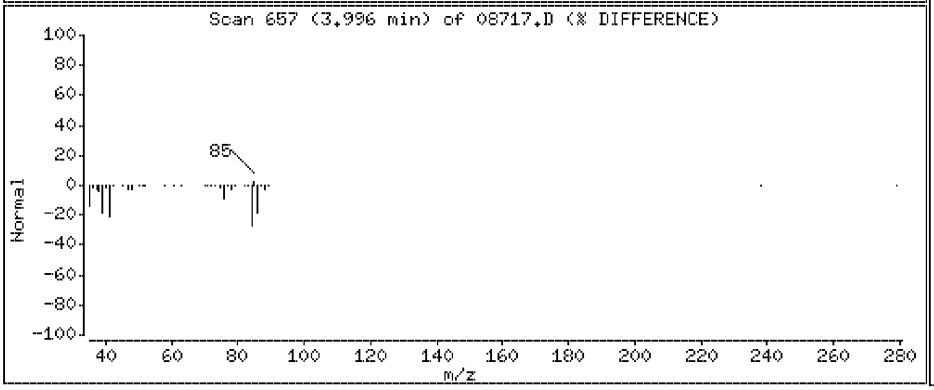












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

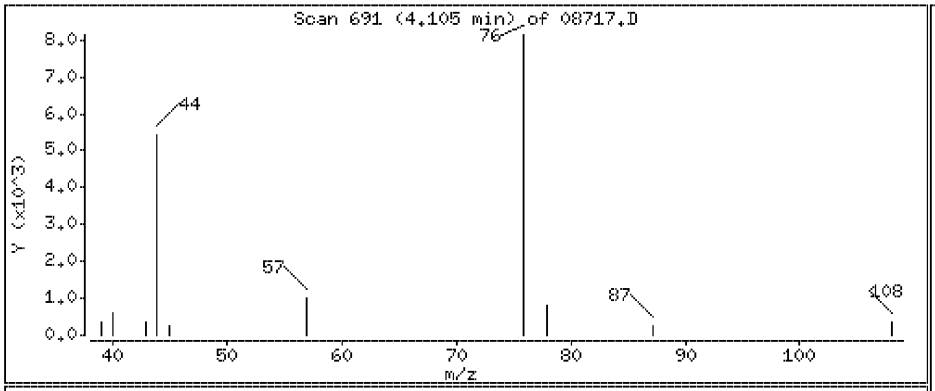
Operator: NCK

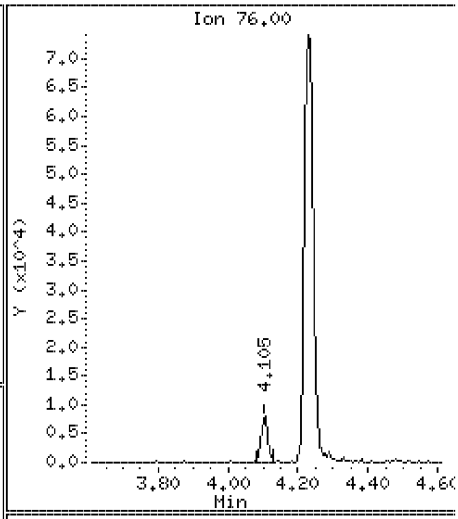
Column phase: J&W DB-5

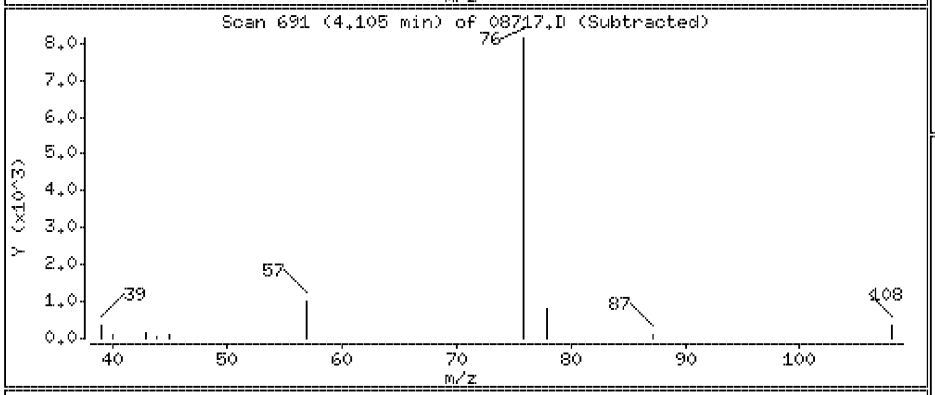
Column diameter: 0.32

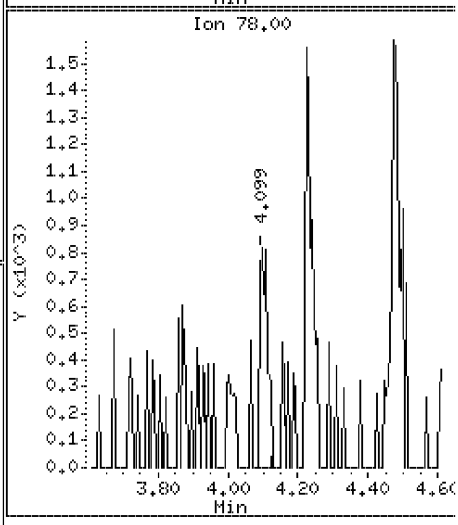
27 Carbon Disulfide

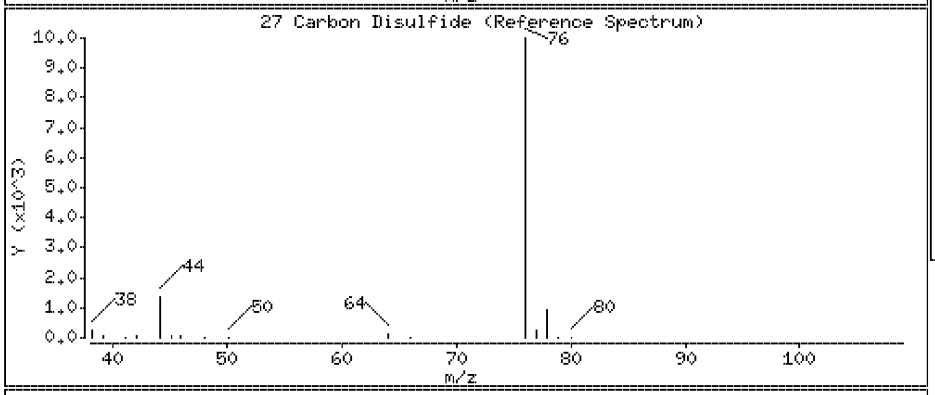
Concentration: 0.197 ppbv

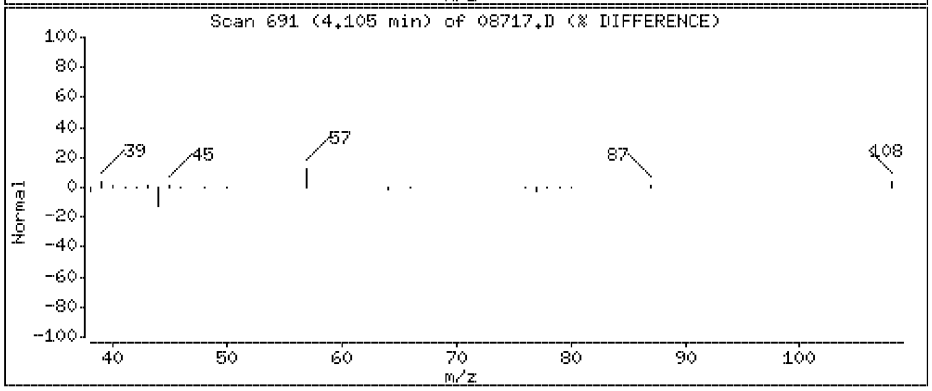












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

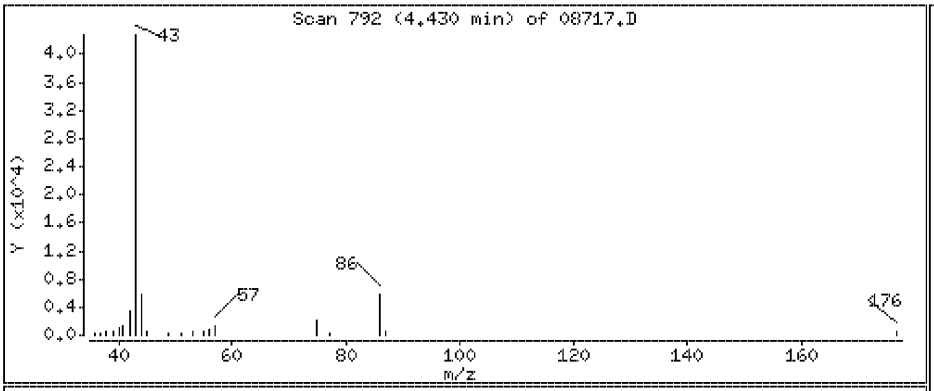
Operator: NCK

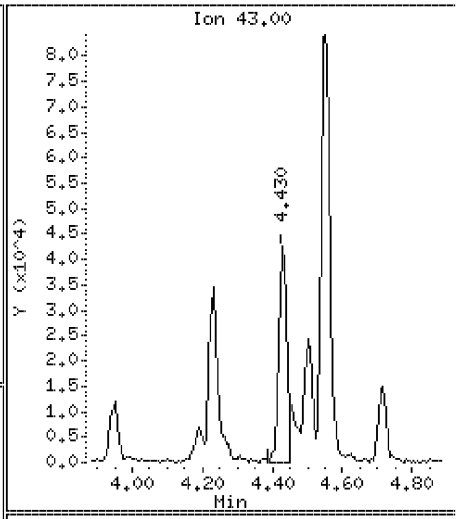
Column phase: J&W DB-5

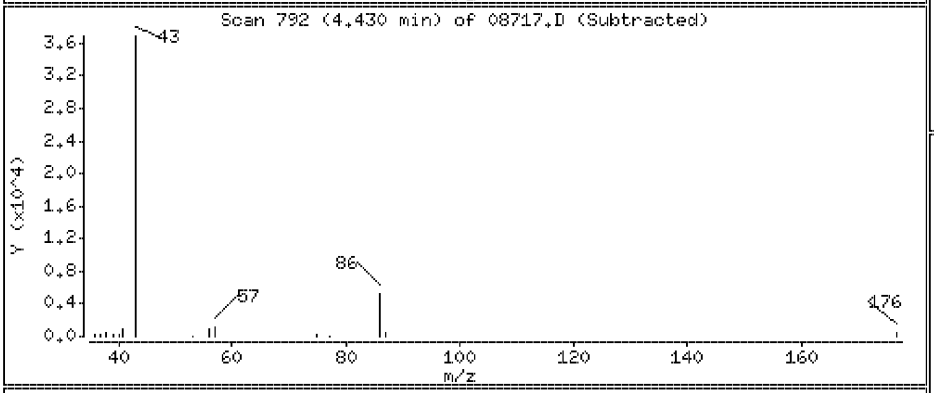
Column diameter: 0.32

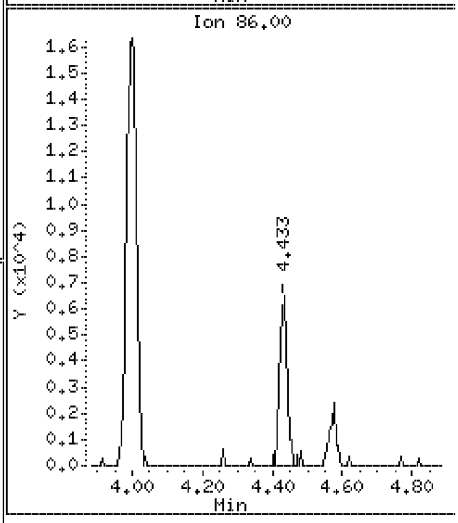
30 Vinyl Acetate

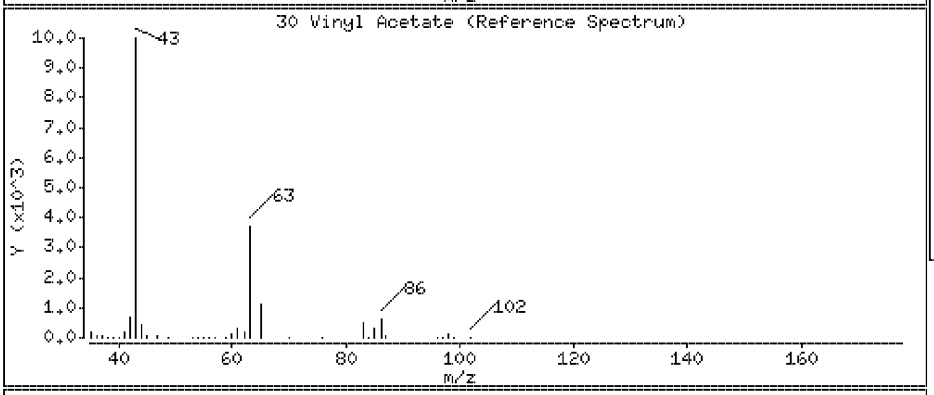
Concentration: 0.962 ppbv

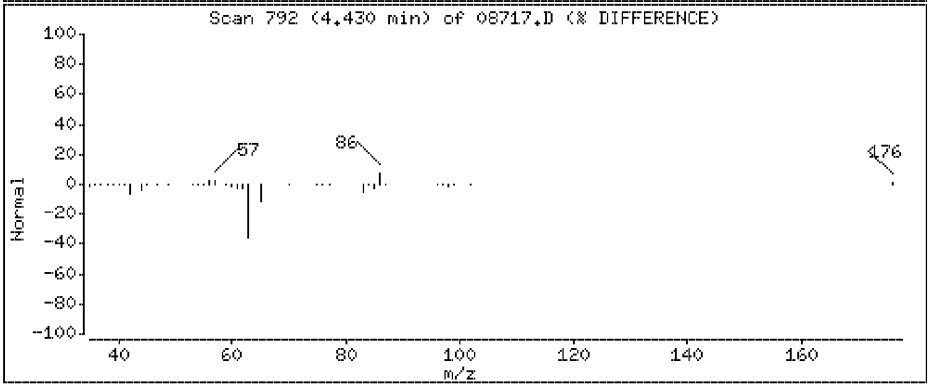












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

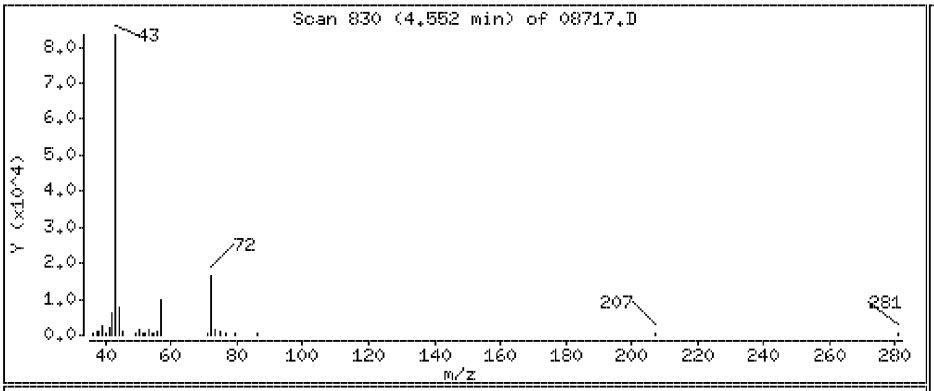
Operator: NCK

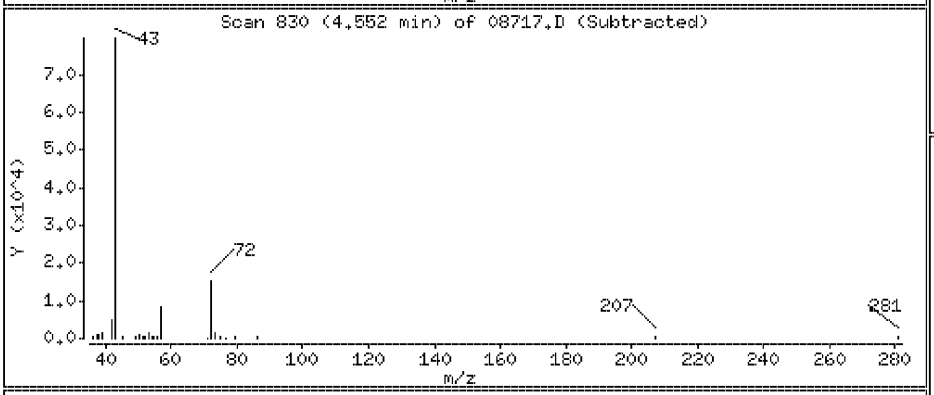
Column phase: J&W DB-5

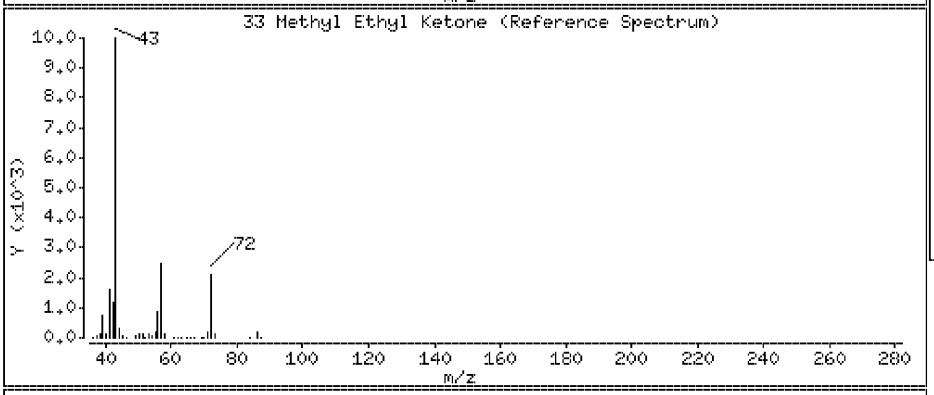
Column diameter: 0.32

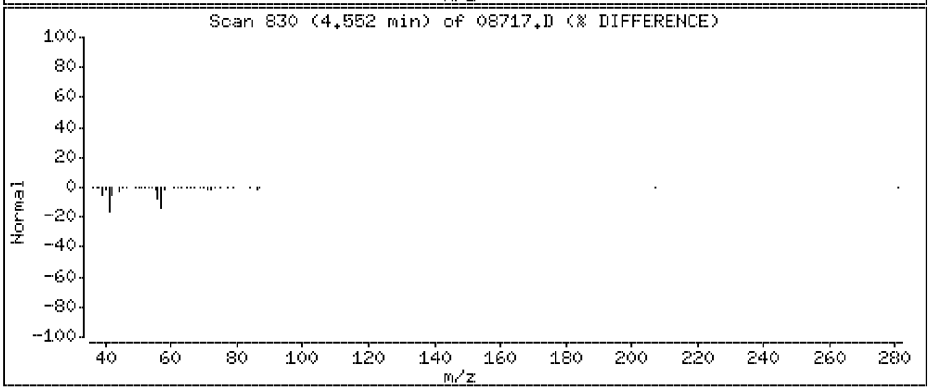
33 Methyl Ethyl Ketone

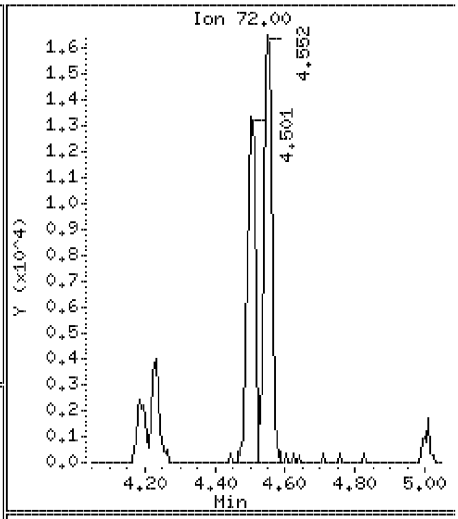
Concentration: 2.19 ppbv

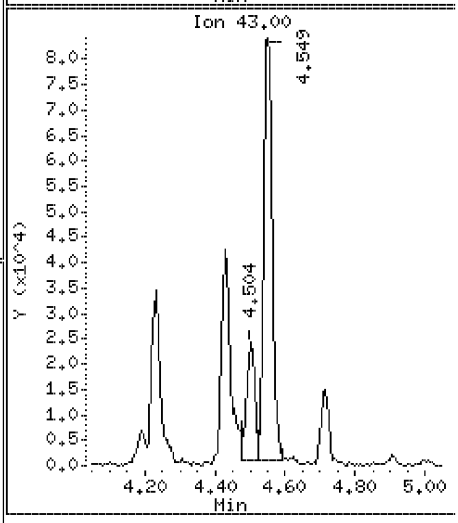












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

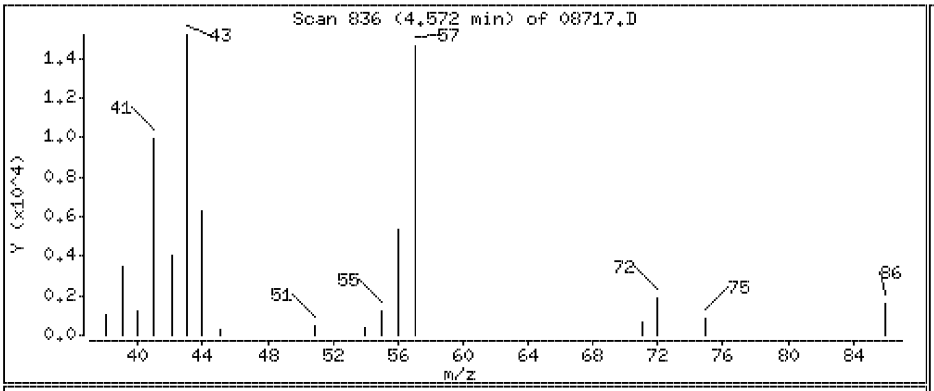
Operator: NCK

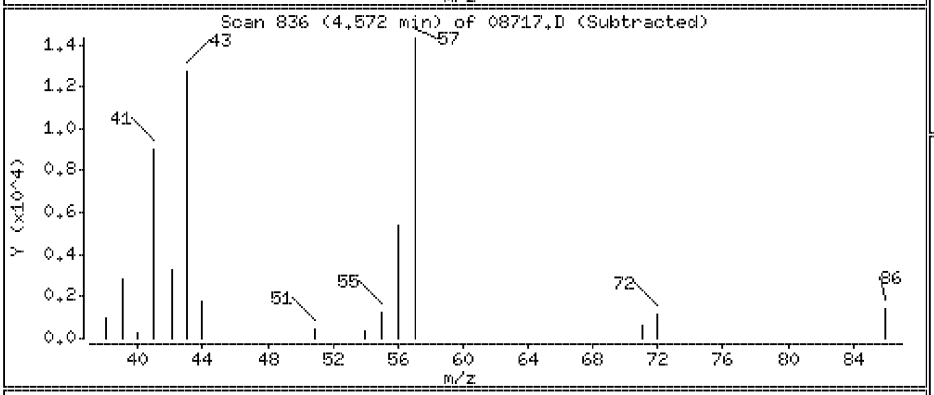
Column phase: J&W DB-5

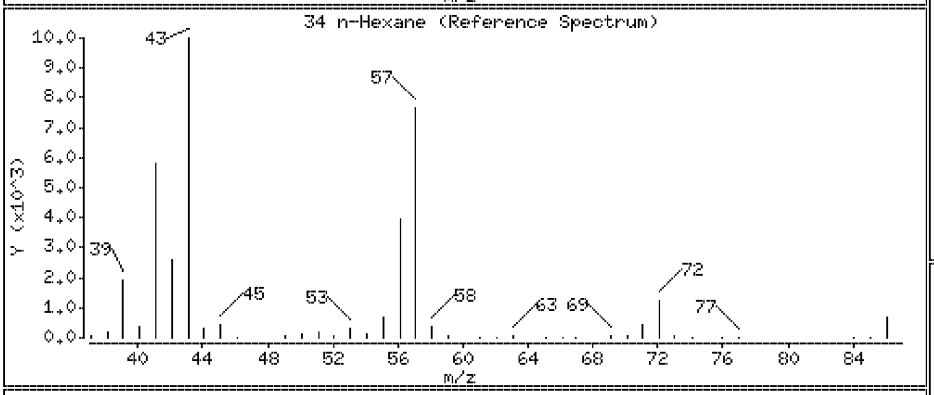
Column diameter: 0.32

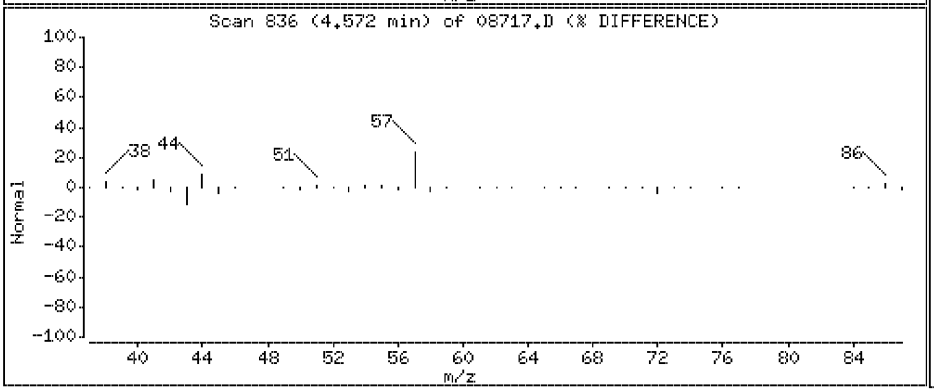
34 n-Hexane

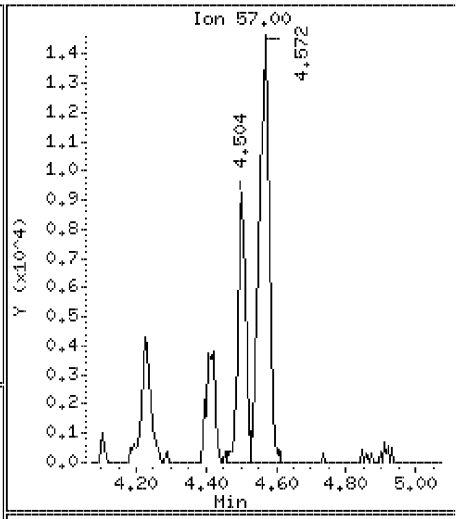
Concentration: 0.669 ppbv

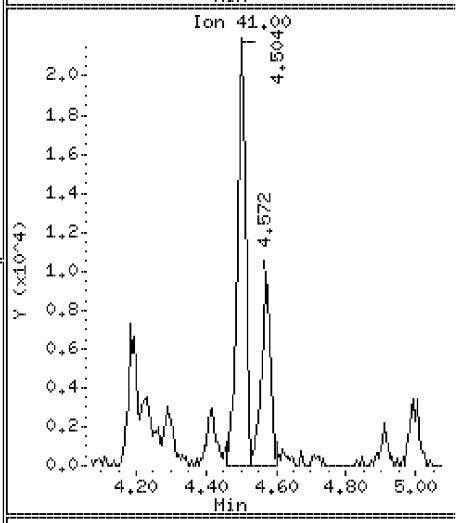


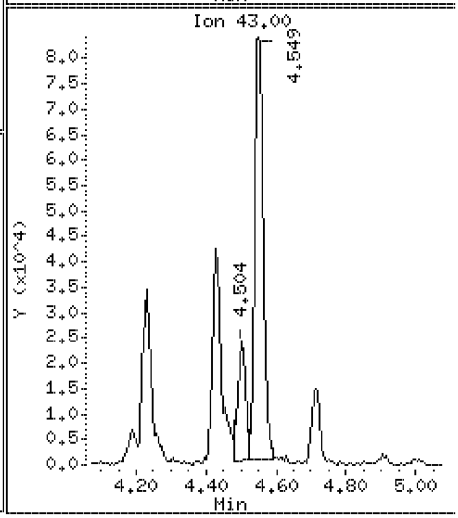












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

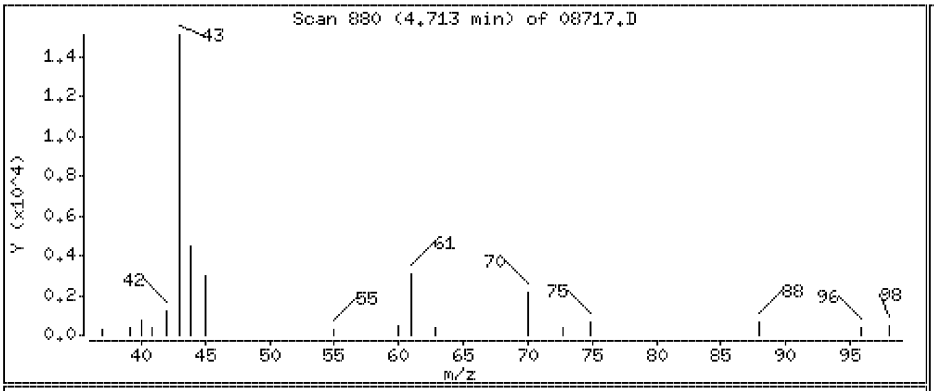
Operator: NCK

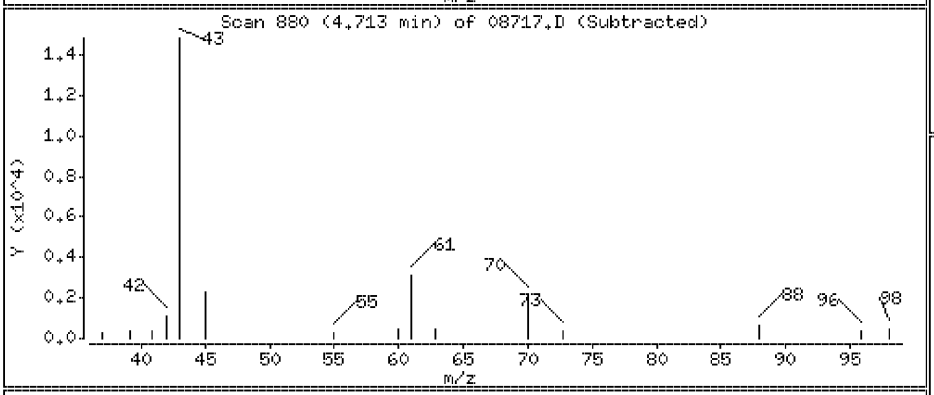
Column phase: J&W DB-5

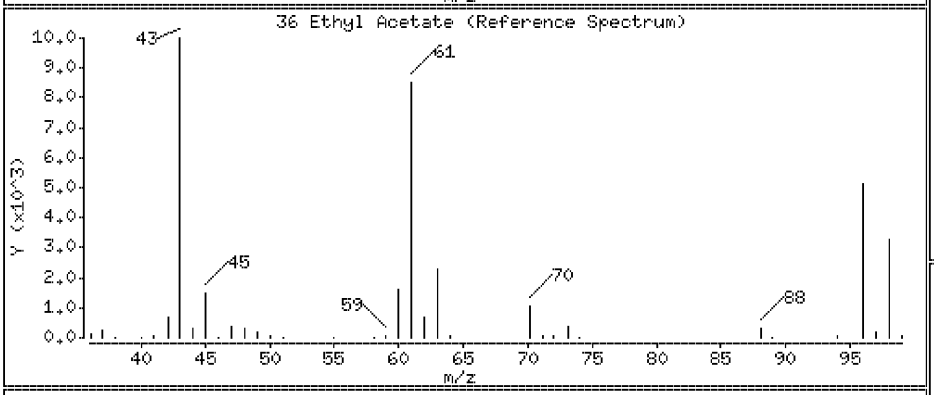
Column diameter: 0.32

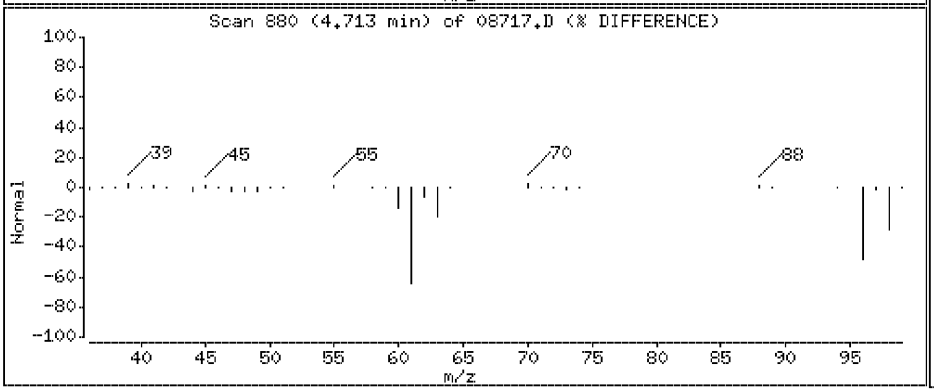
36 Ethyl Acetate

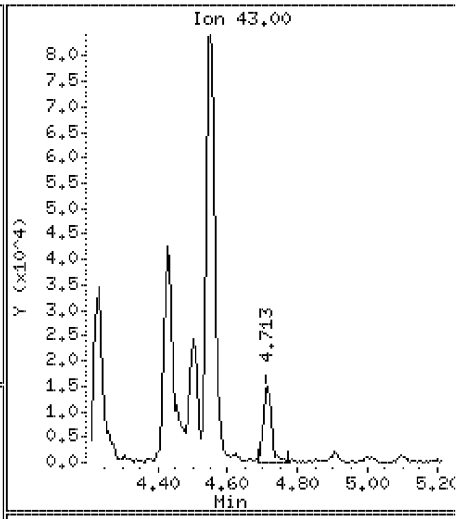
Concentration: 0.442 ppbv

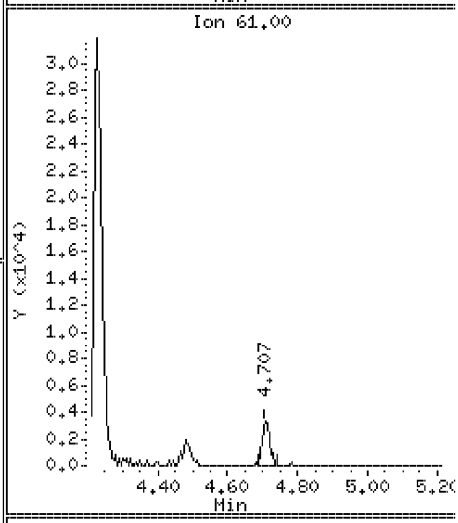


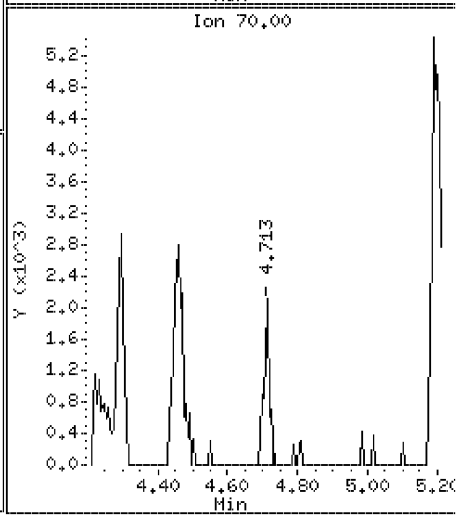












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

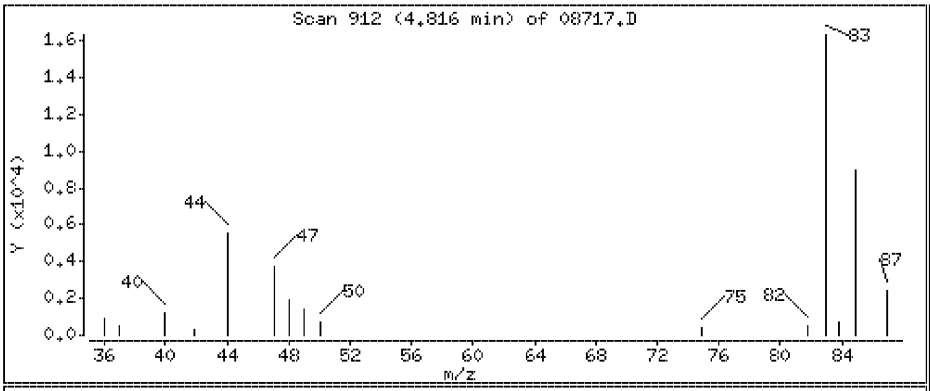
Operator: NCK

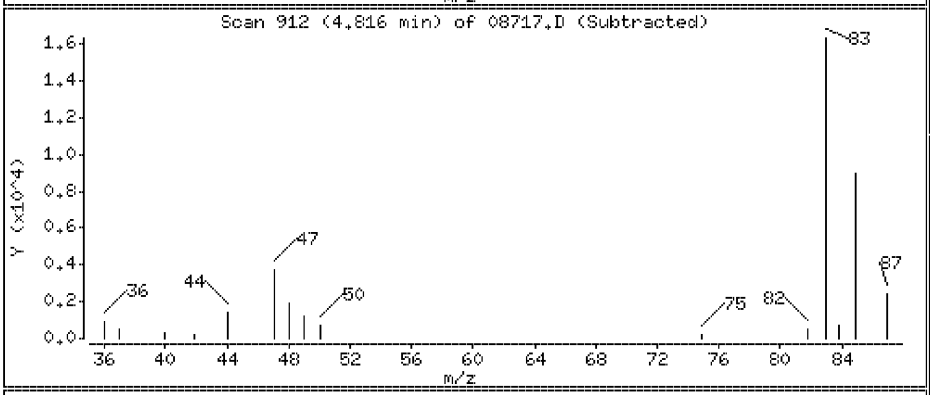
Column phase: J&W DB-5

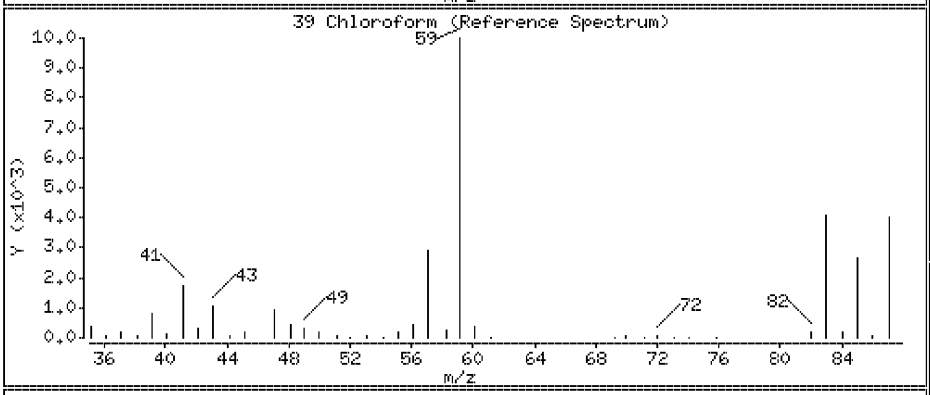
Column diameter: 0.32

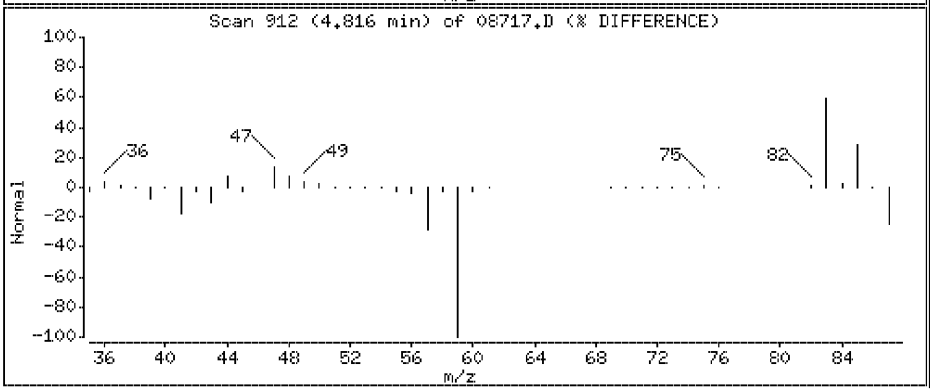
39 Chloroform

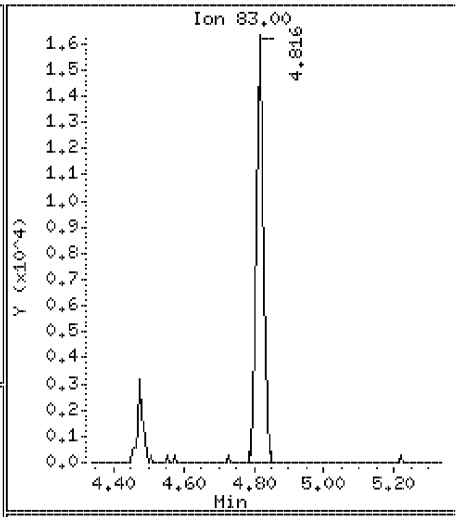
Concentration: 0.458 ppbv

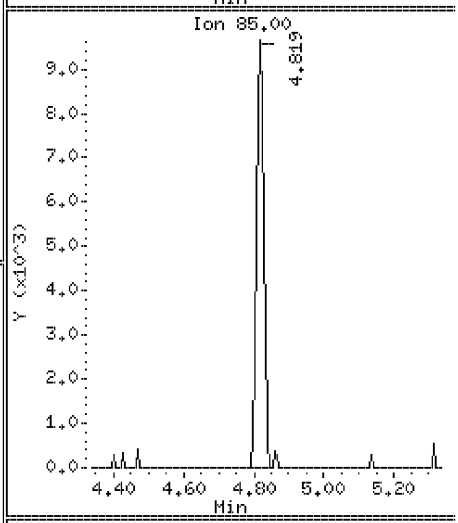


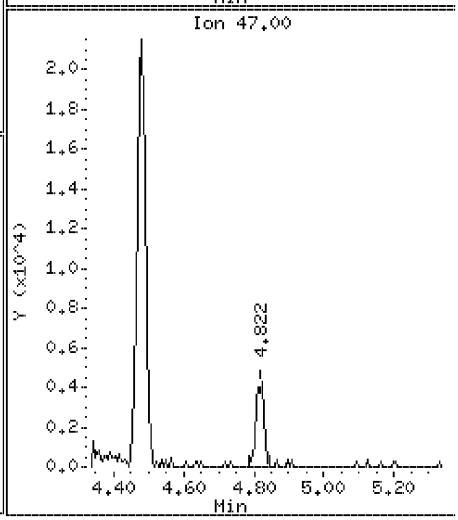












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

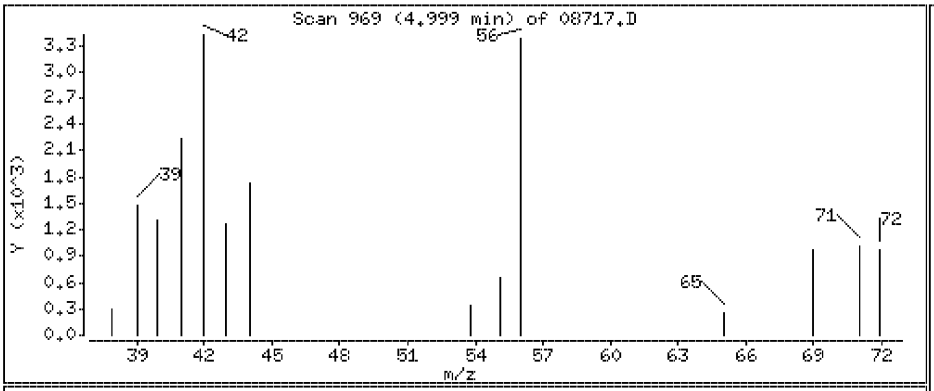
Operator: NCK

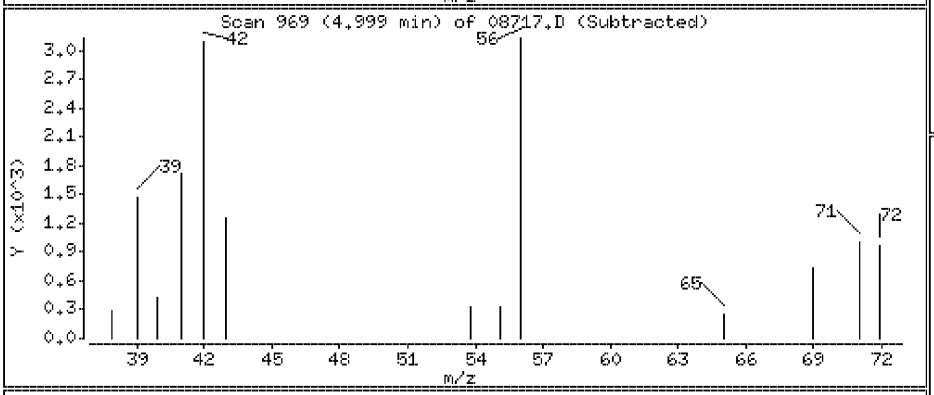
Column phase: J&W DB-5

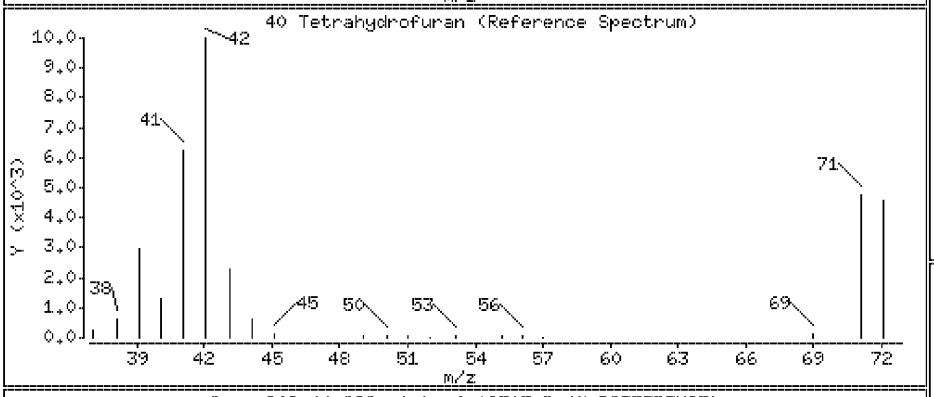
Column diameter: 0.32

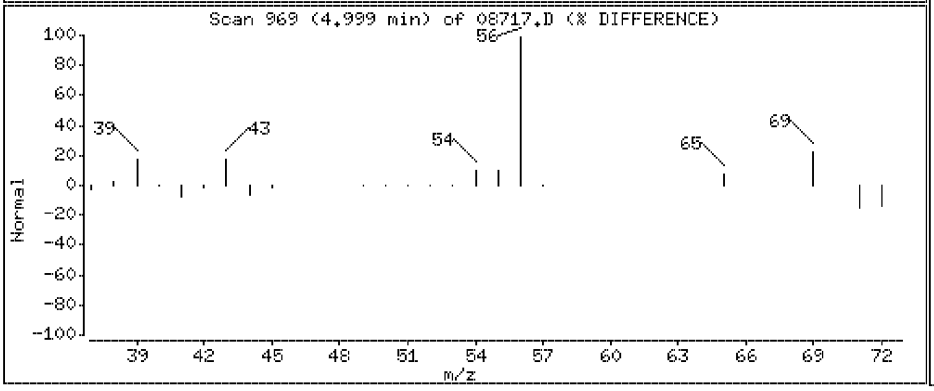
40 Tetrahydrofuran

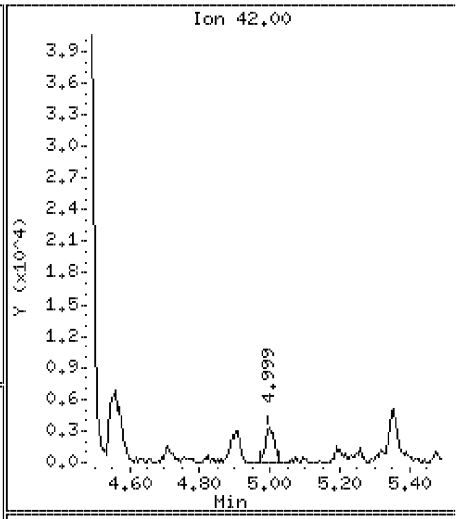
Concentration: 0.168 ppbv

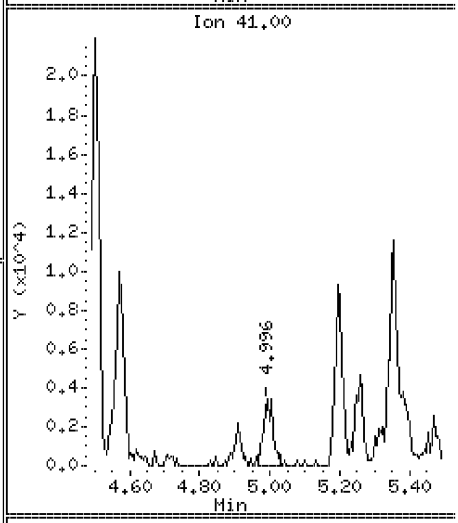


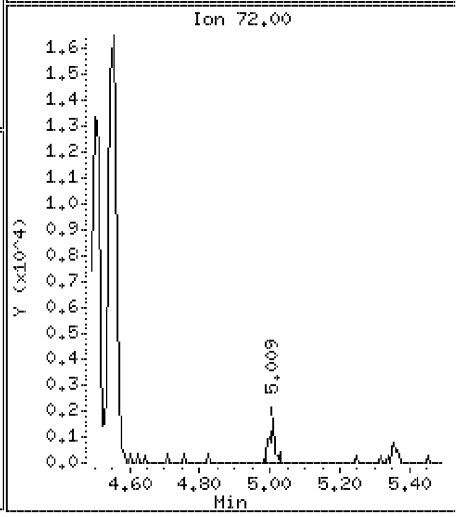












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

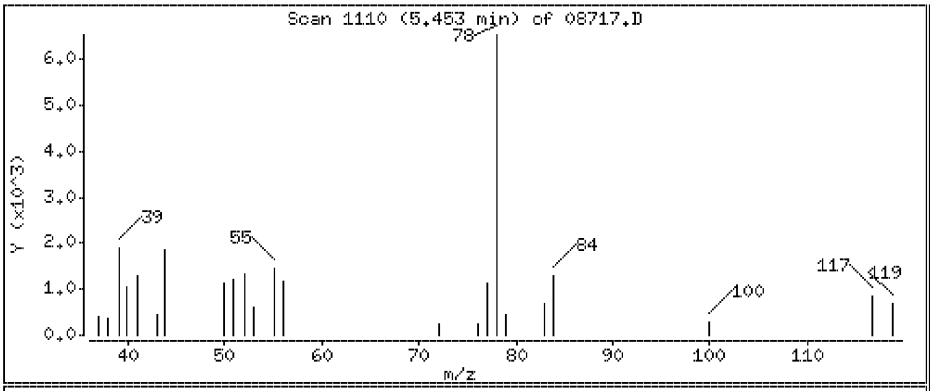
Operator: NCK

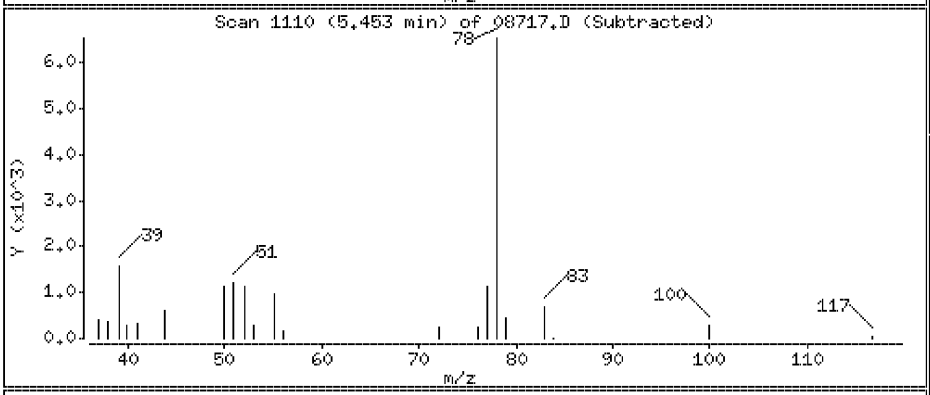
Column phase: J&W DB-5

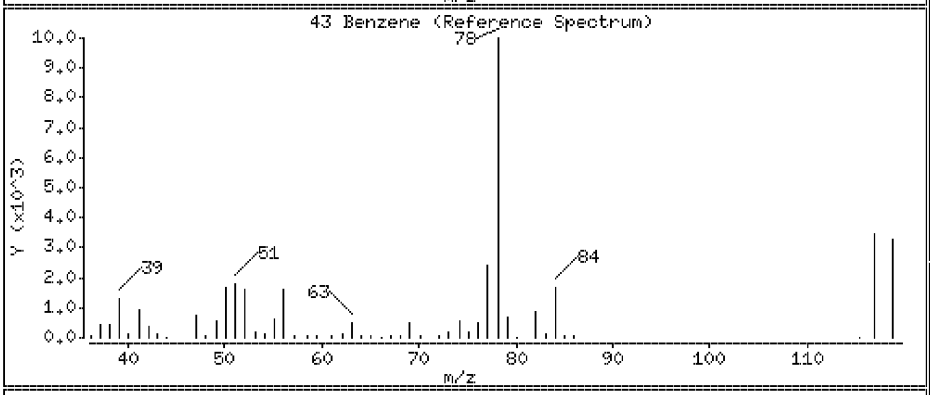
Column diameter: 0.32

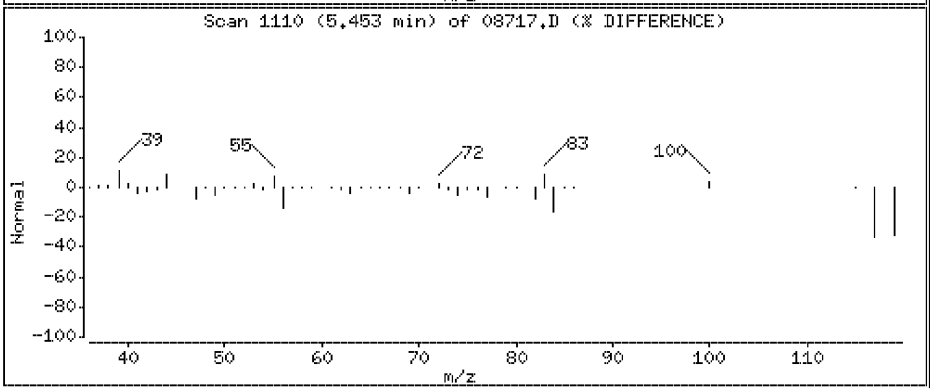
43 Benzene

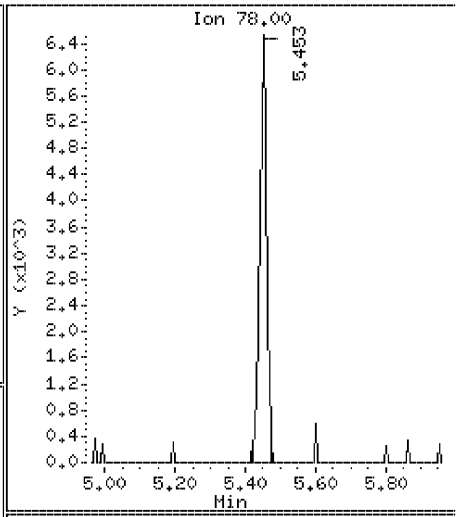
Concentration: 0.0949 ppbv

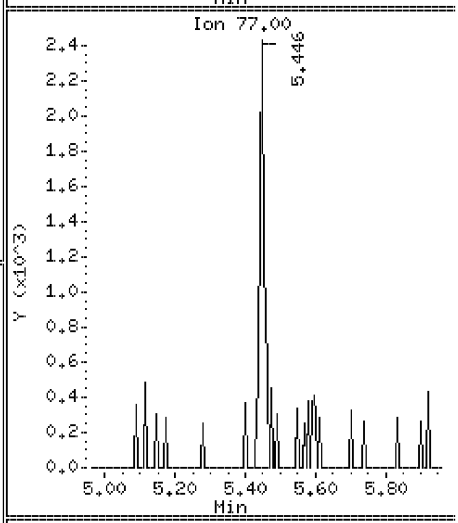


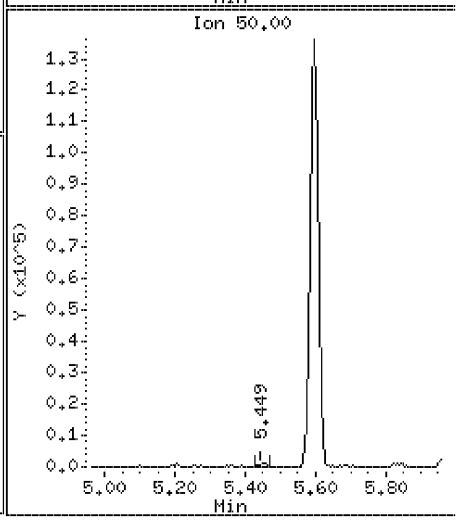












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

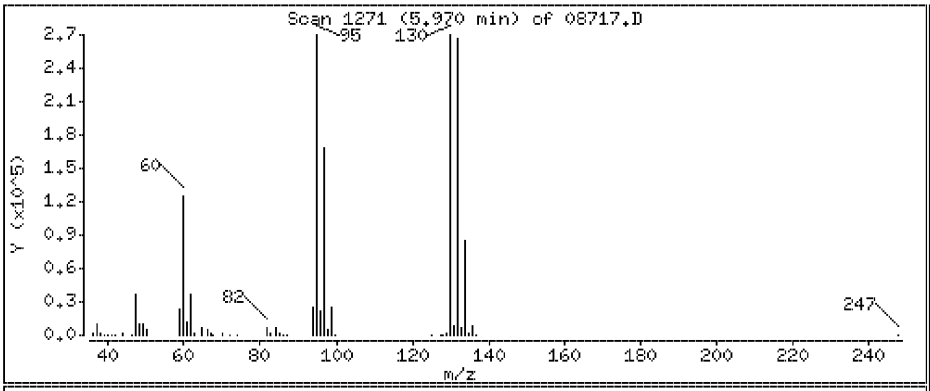
Operator: NCK

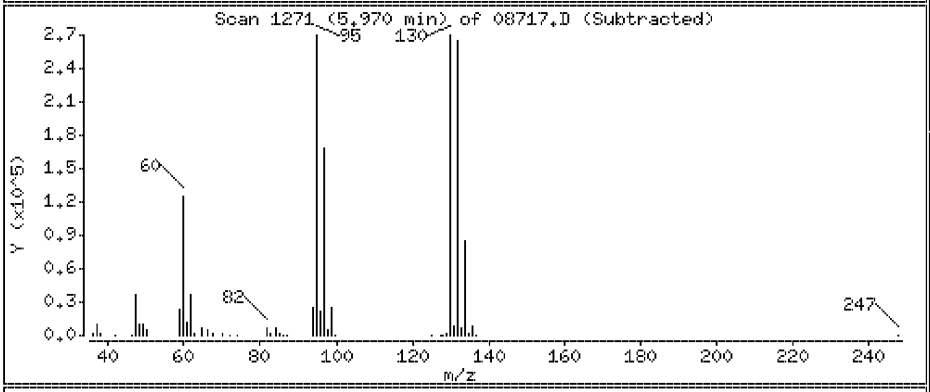
Column phase: J&W DB-5

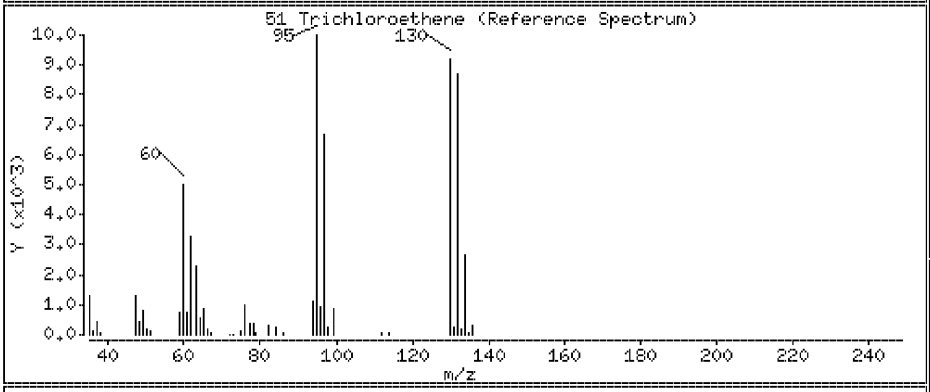
Column diameter: 0.32

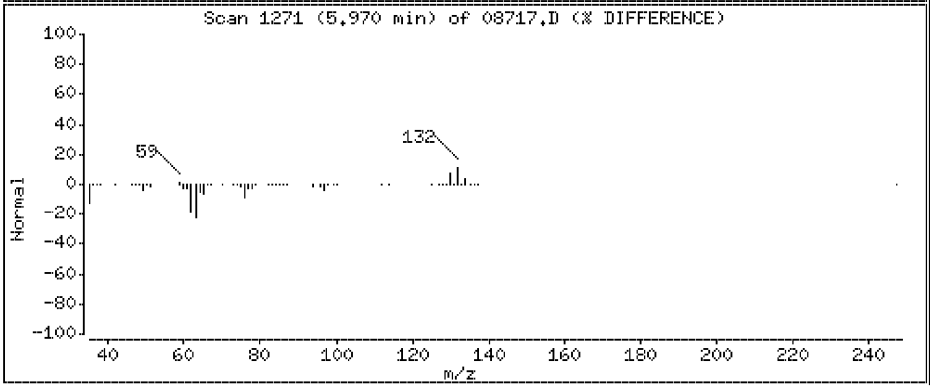
51 Trichloroethene

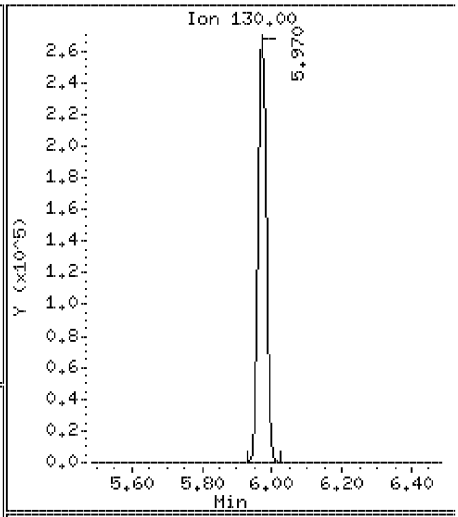
Concentration: 9.71 ppbv

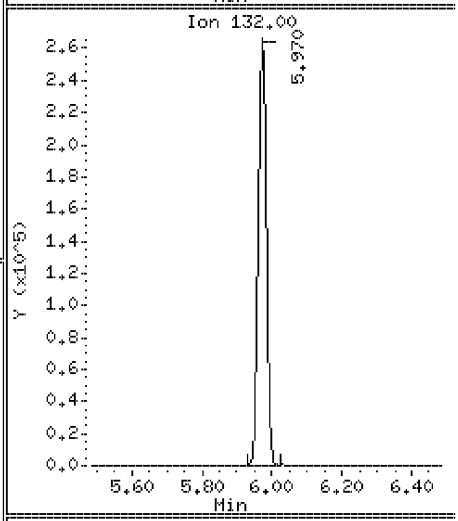


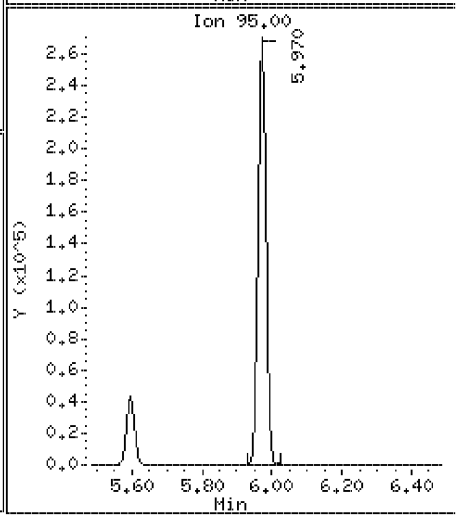












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

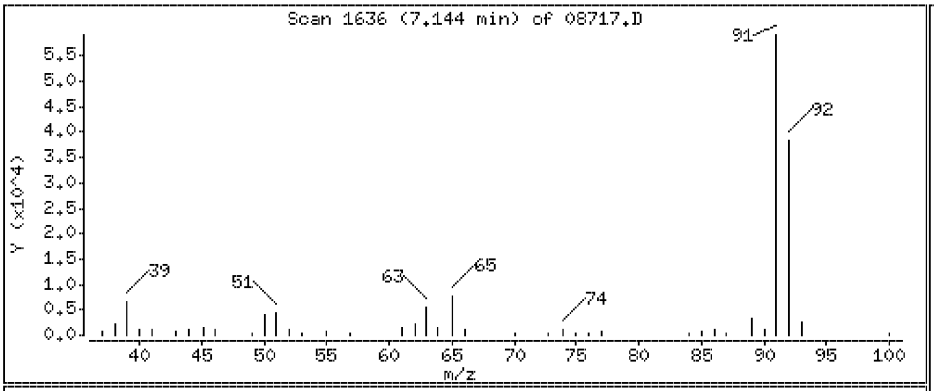
Operator: NCK

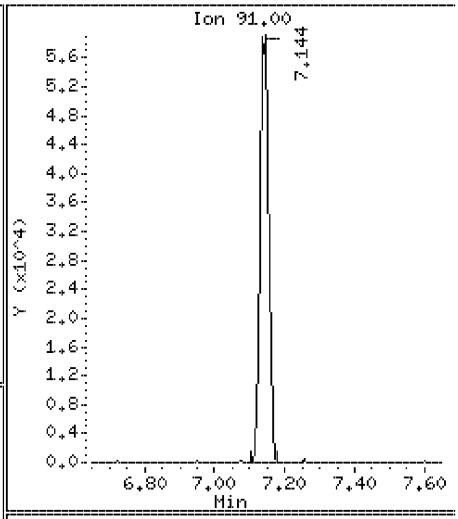
Column phase: J&W DB-5

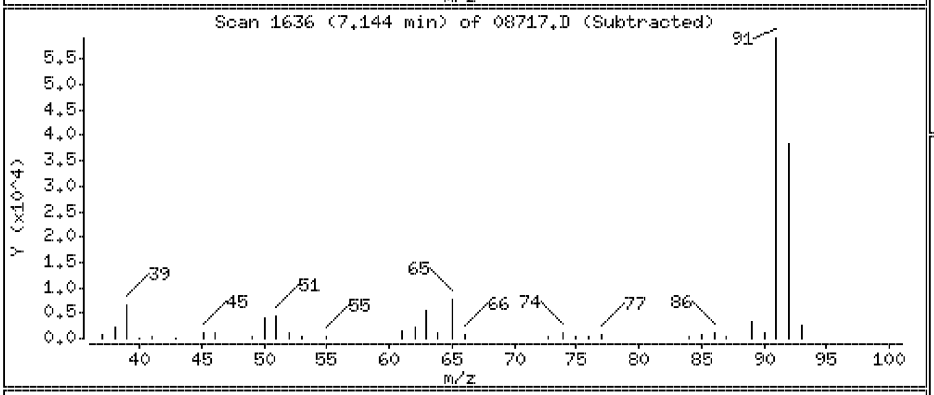
Column diameter: 0.32

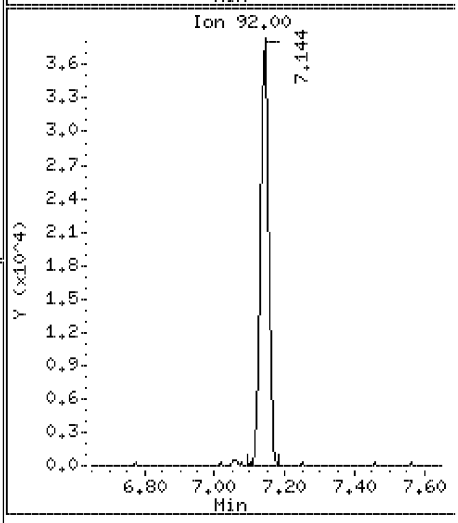
61 Toluene

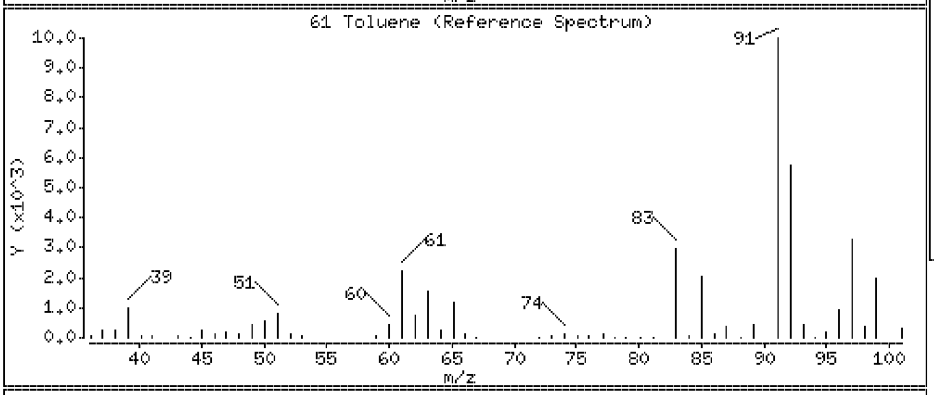
Concentration: 0.937 ppbv

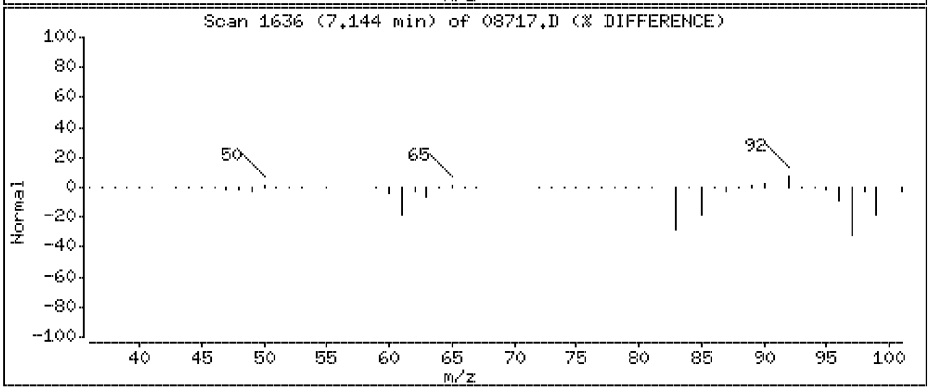












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

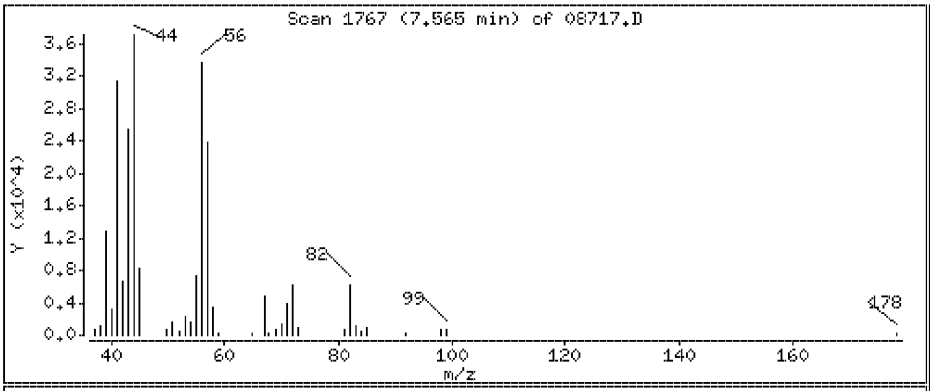
Operator: NCK

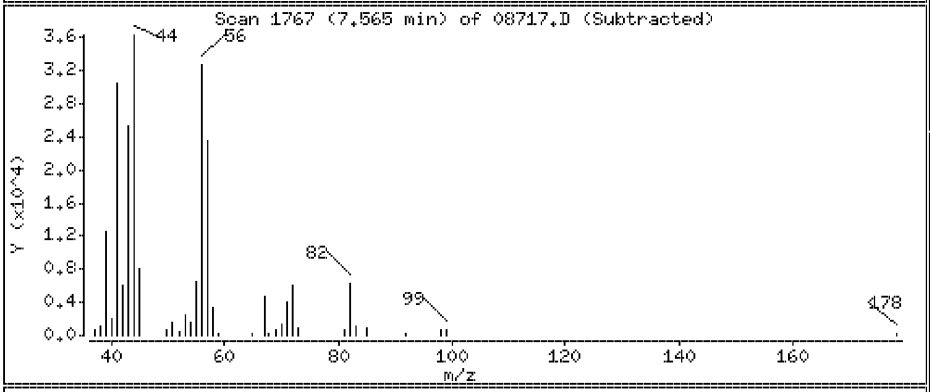
Column phase: J&W DB-5

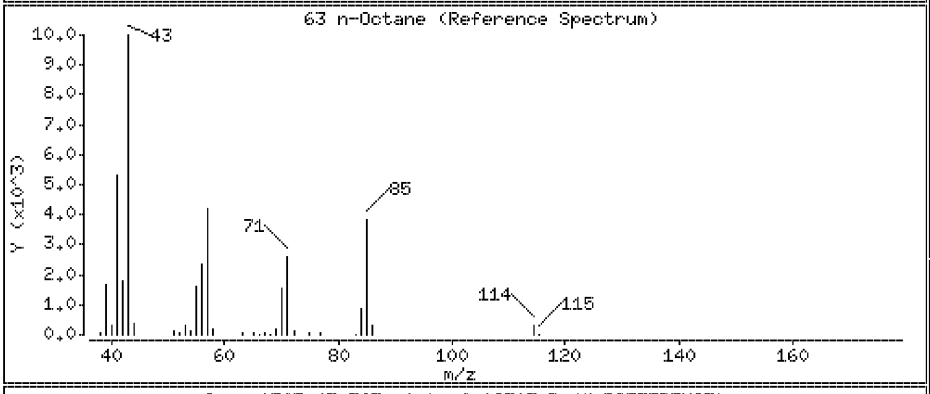
Column diameter: 0.32

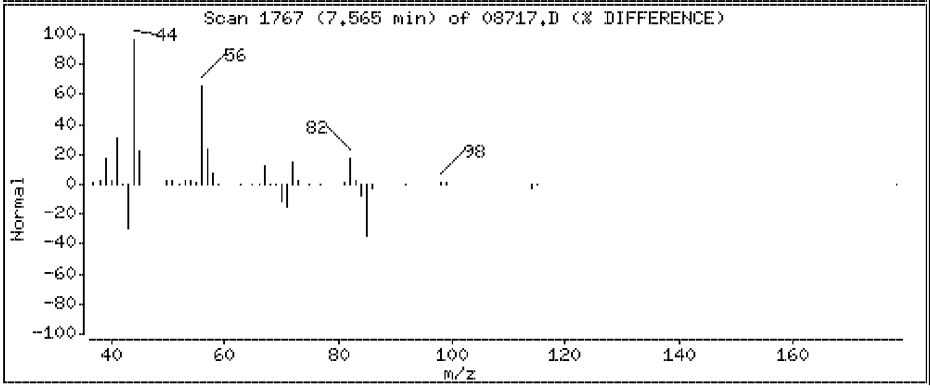
63 n-Octane

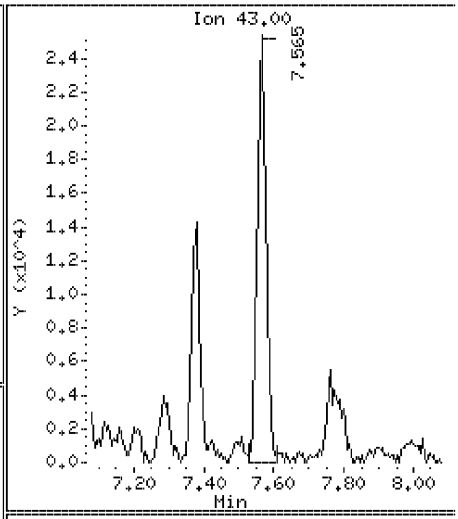
Concentration: 0.638 ppbv

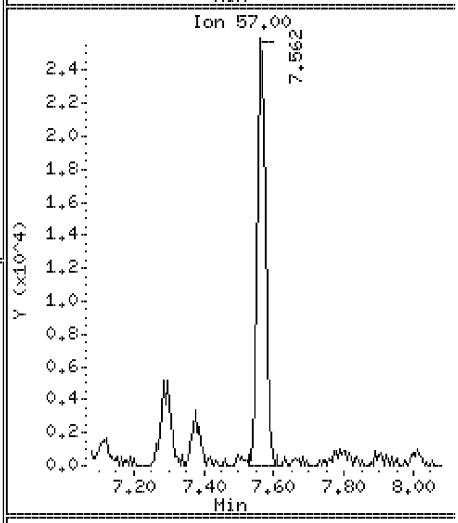


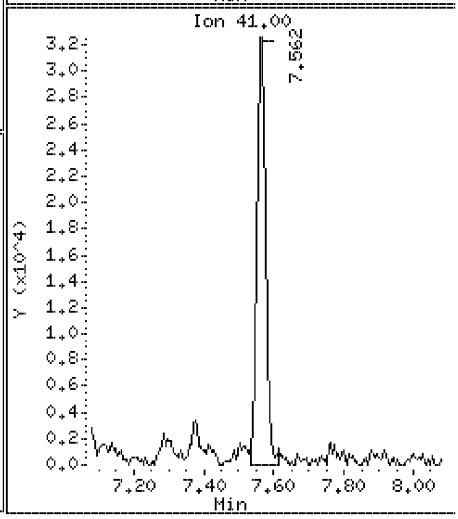












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

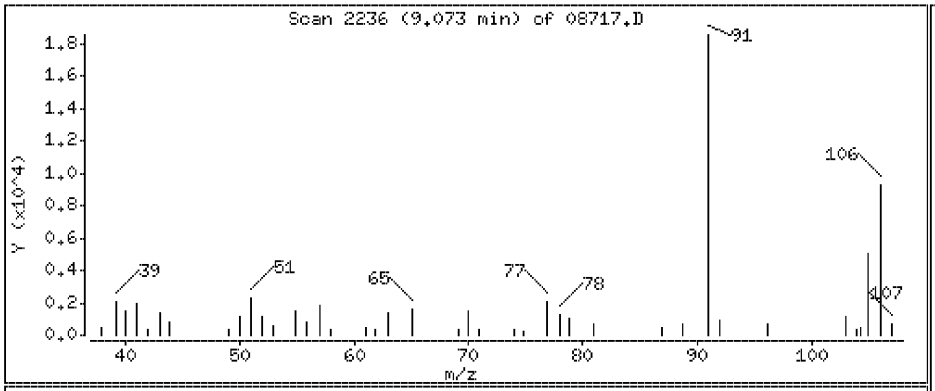
Operator: NCK

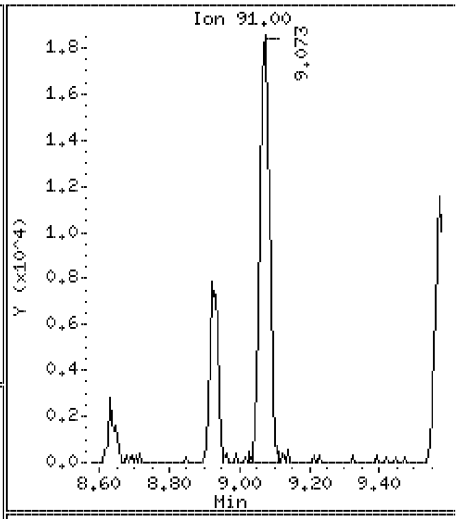
Column phase: J&W DB-5

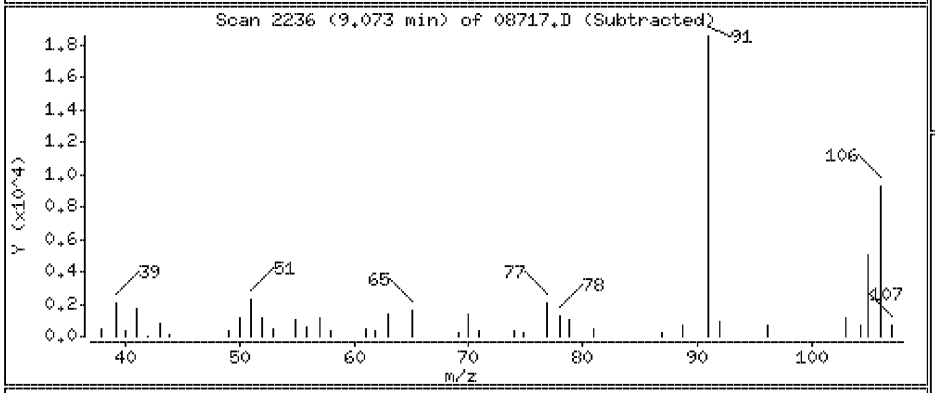
Column diameter: 0.32

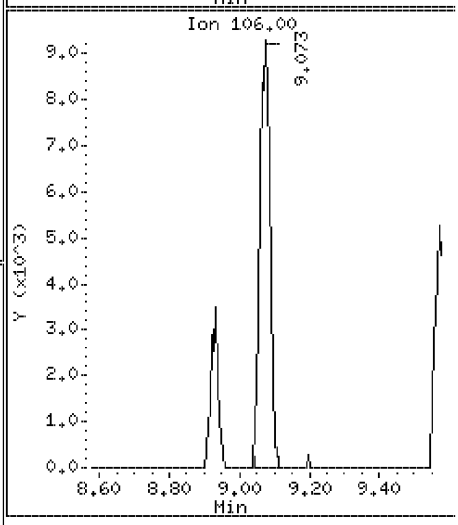
70 m&p-Xylene

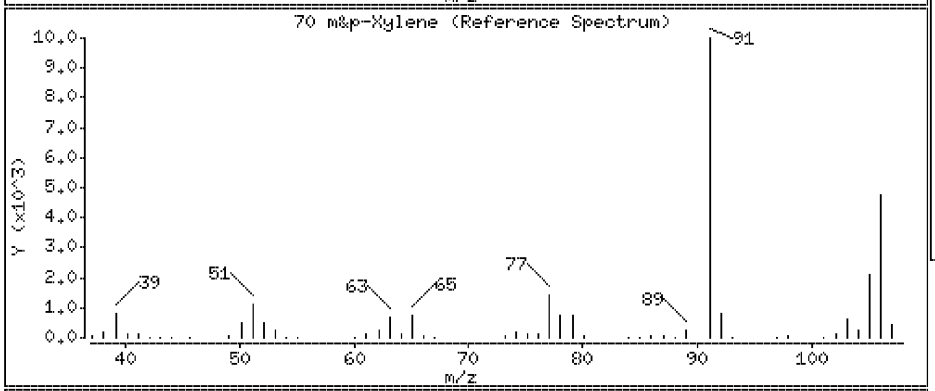
Concentration: 0.364 ppbv

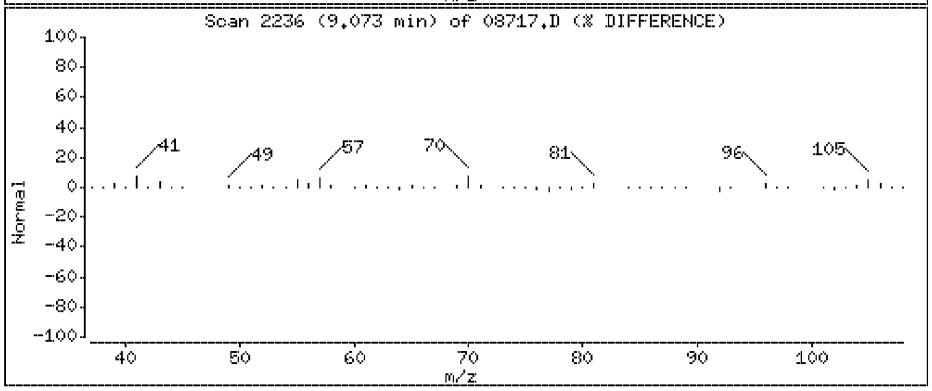












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

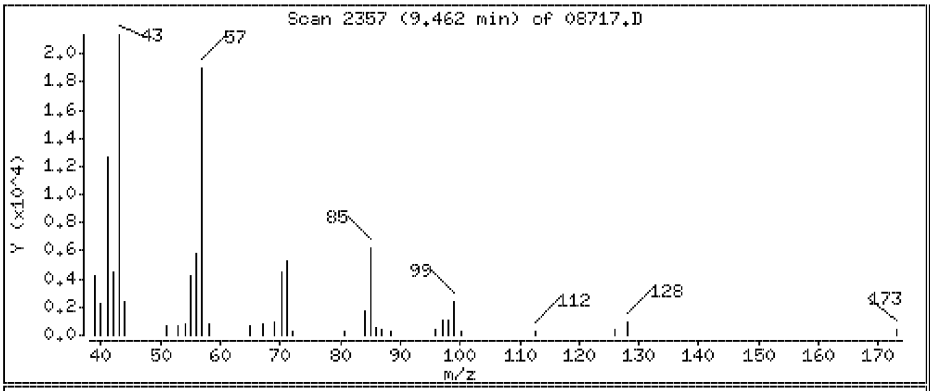
Operator: NCK

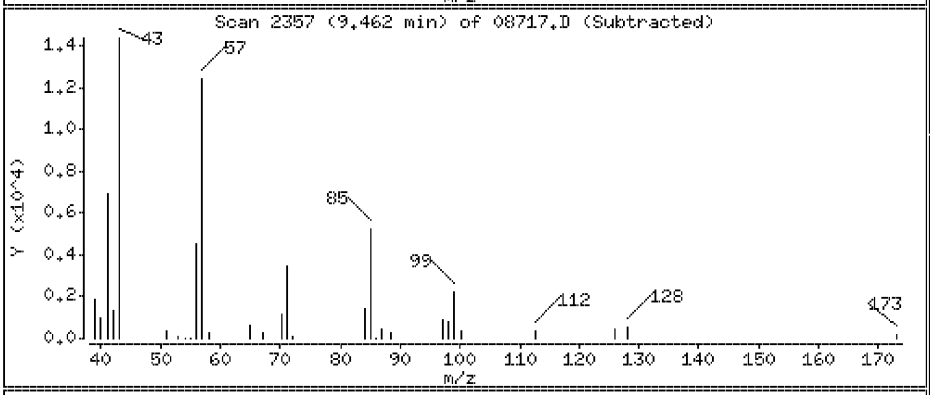
Column phase: J&W DB-5

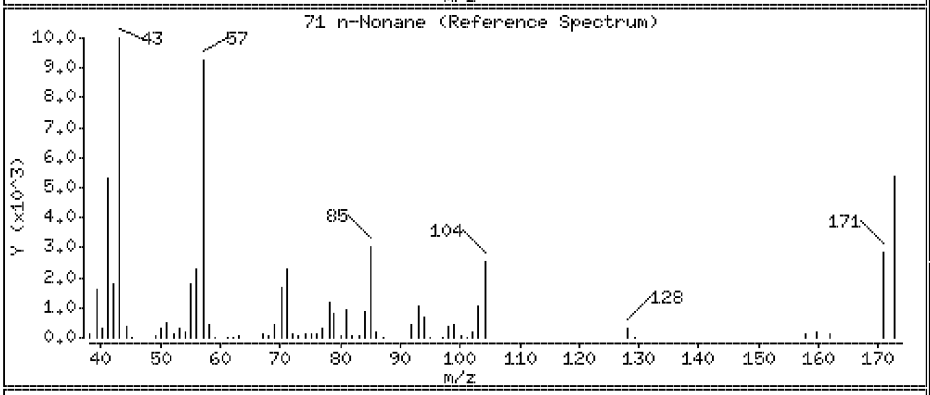
Column diameter: 0.32

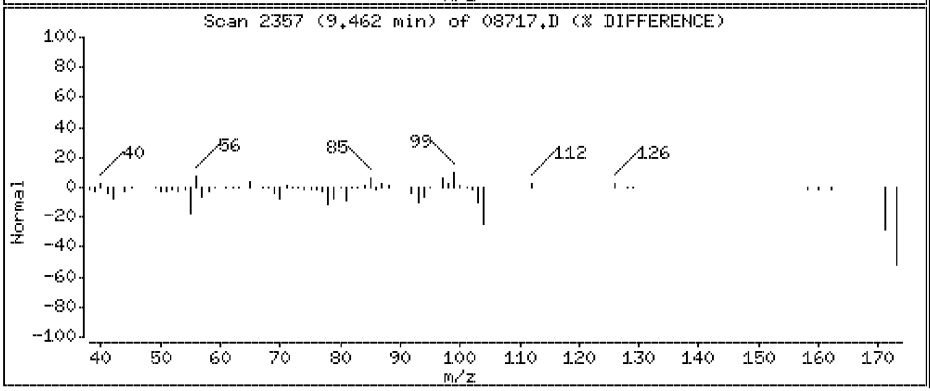
71 n-Nonane

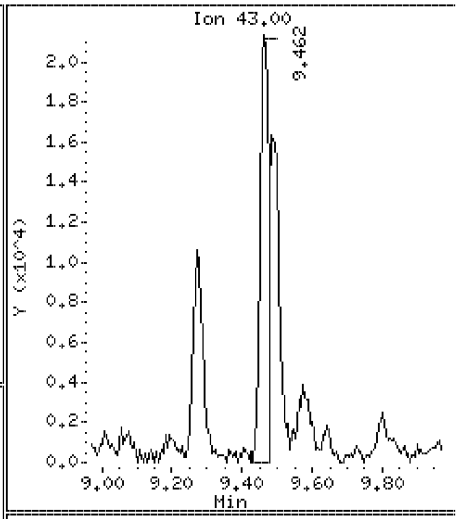
Concentration: 0.579 ppbv

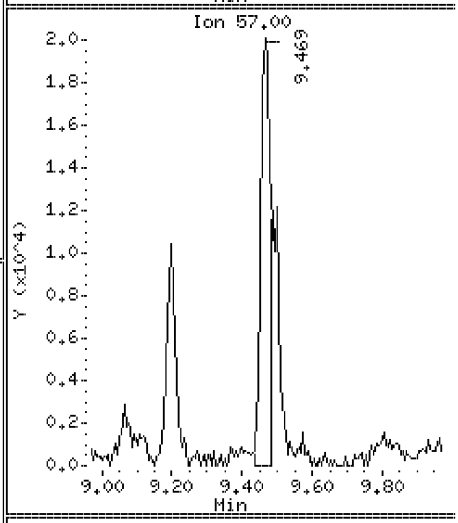


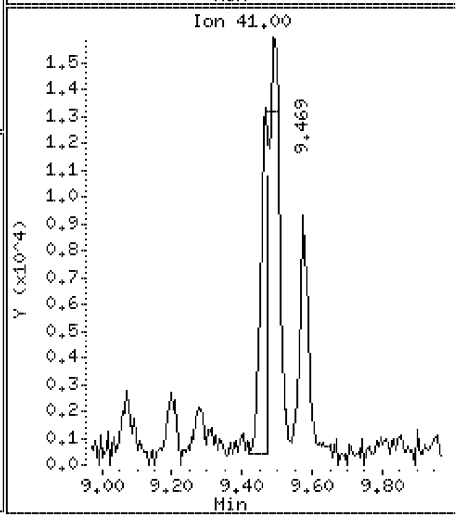












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

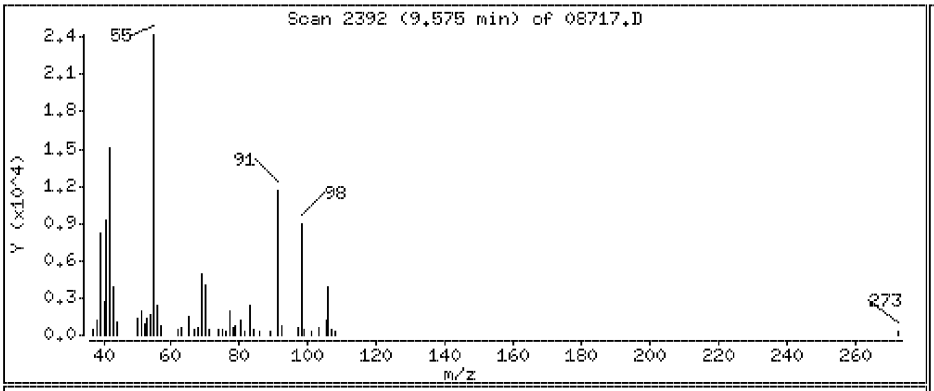
Operator: NCK

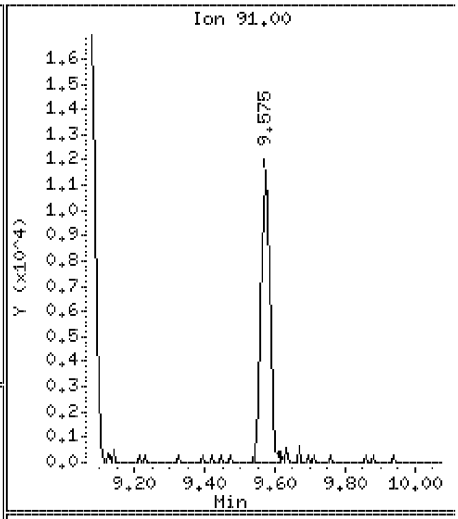
Column phase: J&W DB-5

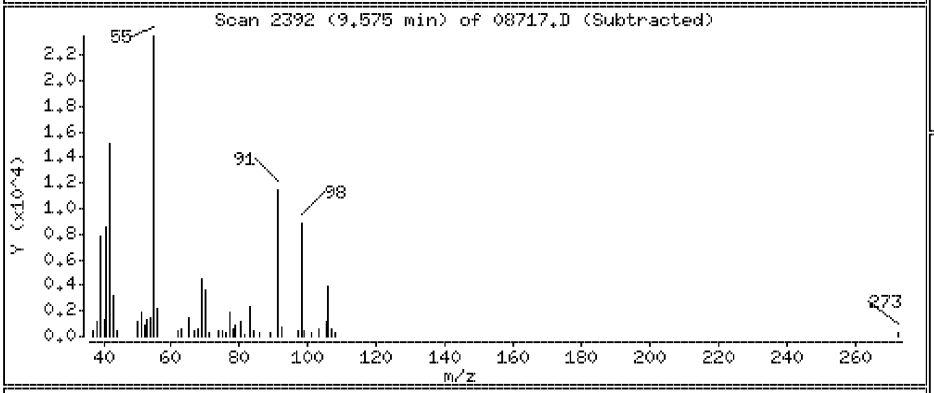
Column diameter: 0.32

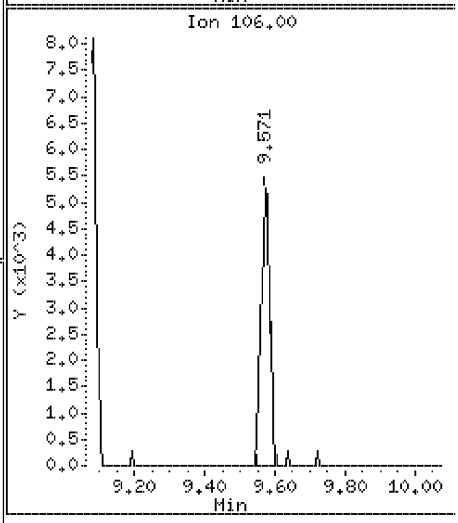
74 o-Xylene

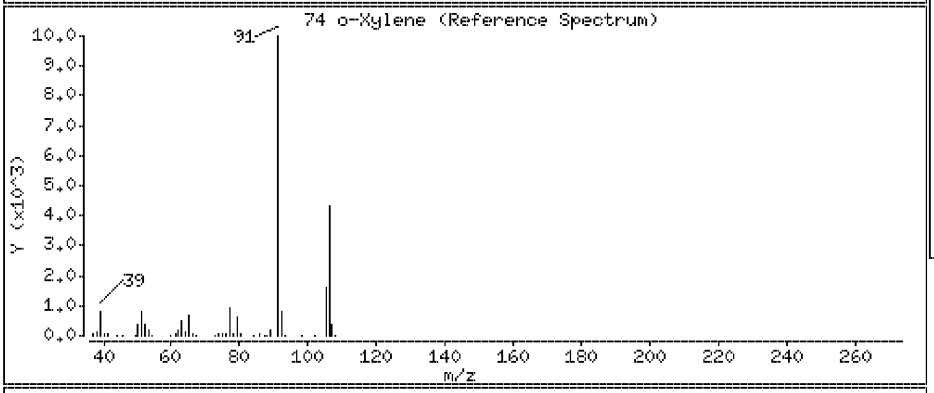
Concentration: 0.189 ppbv

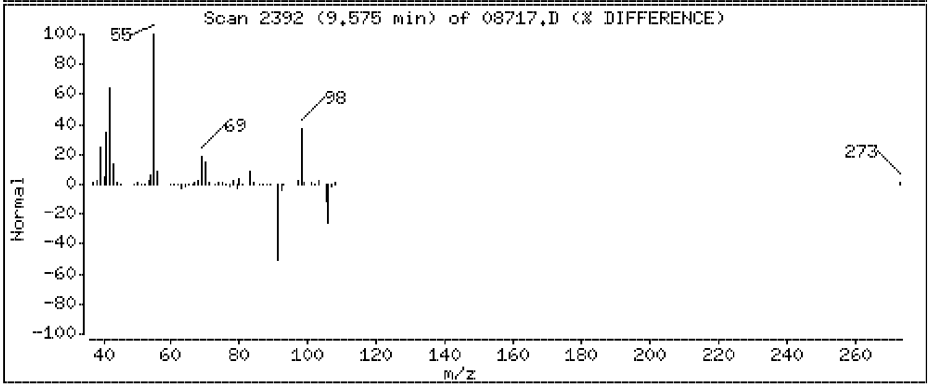












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

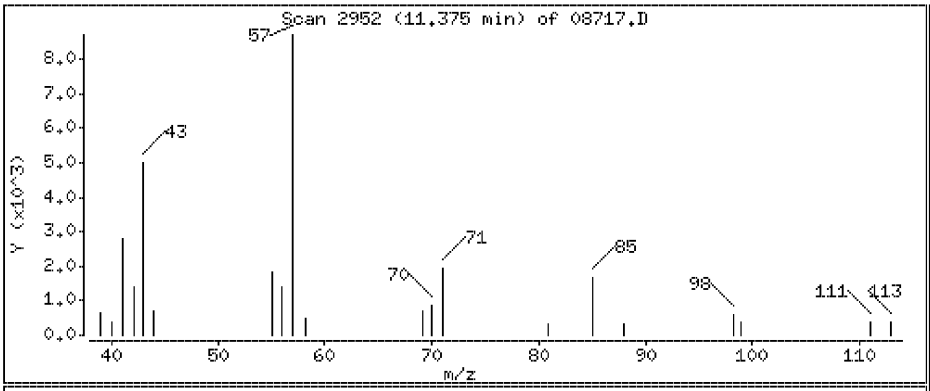
Operator: NCK

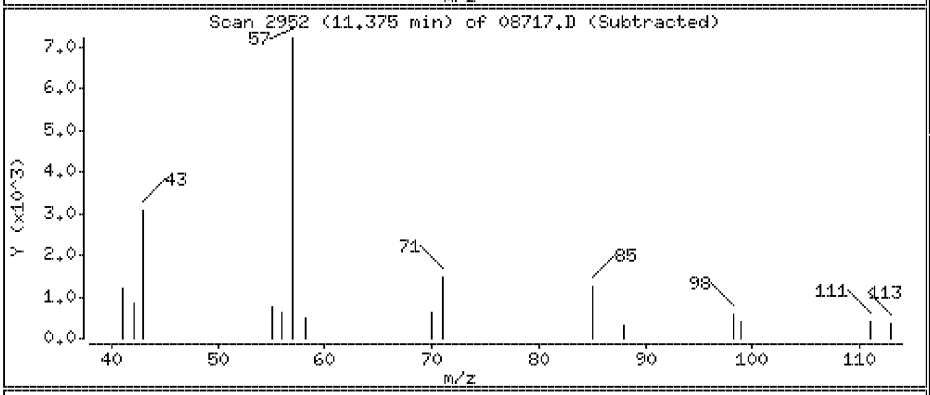
Column phase: J&W DB-5

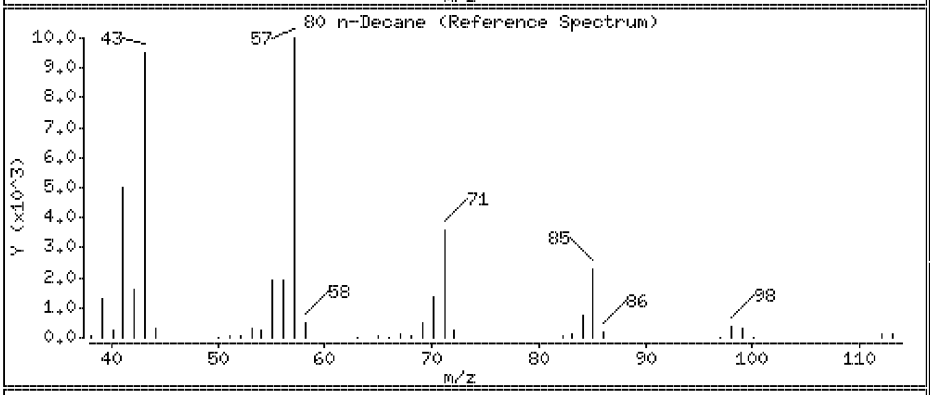
Column diameter: 0.32

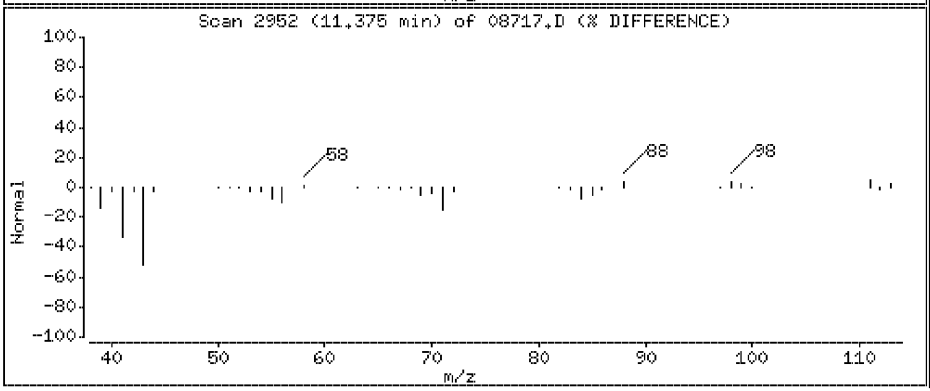
80 n-Decane

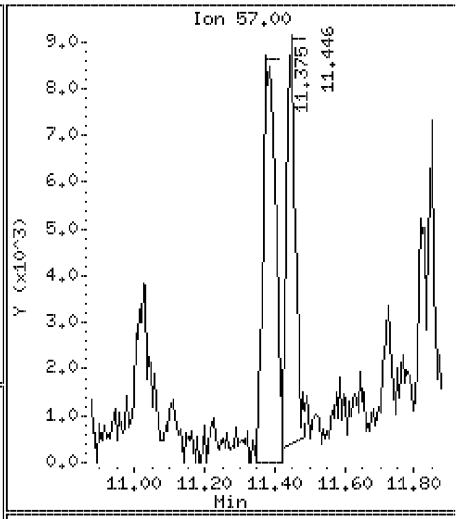
Concentration: 0.341 ppbv

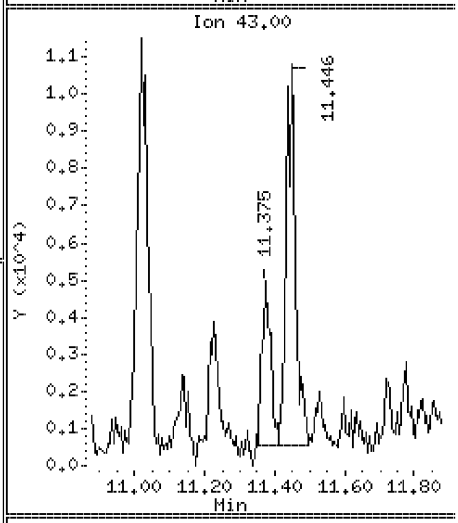


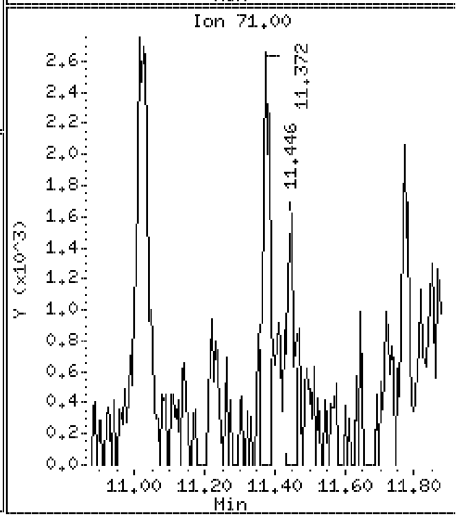












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

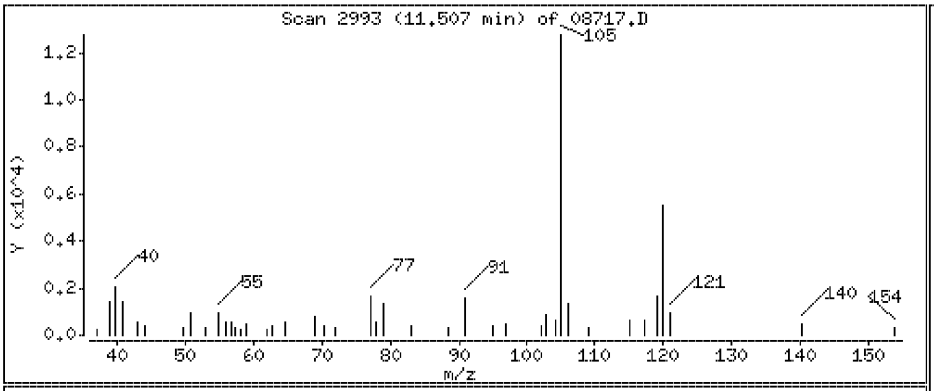
Operator: NCK

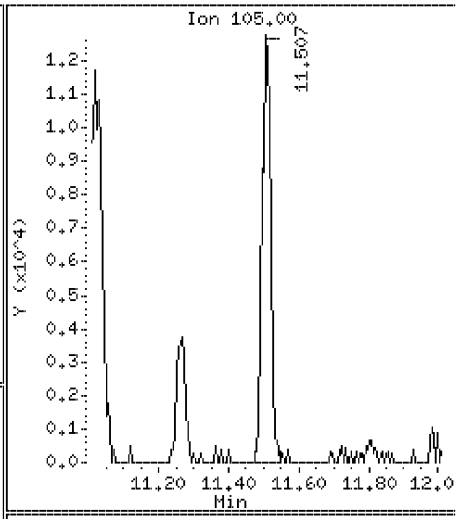
Column phase: J&W DB-5

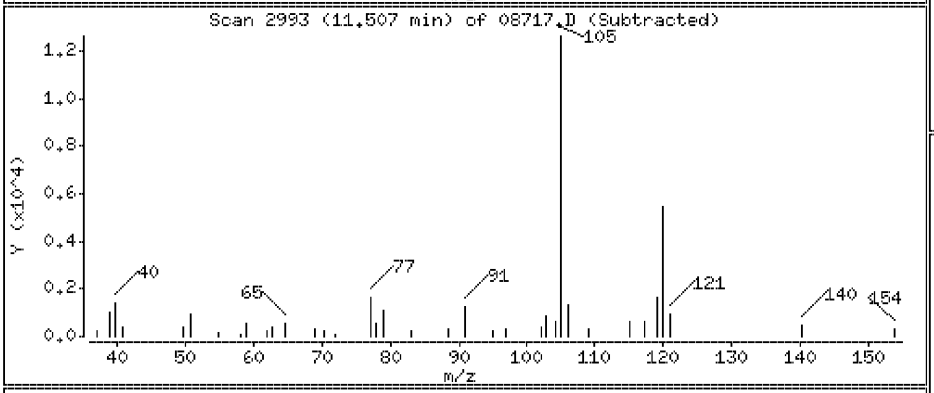
Column diameter: 0.32

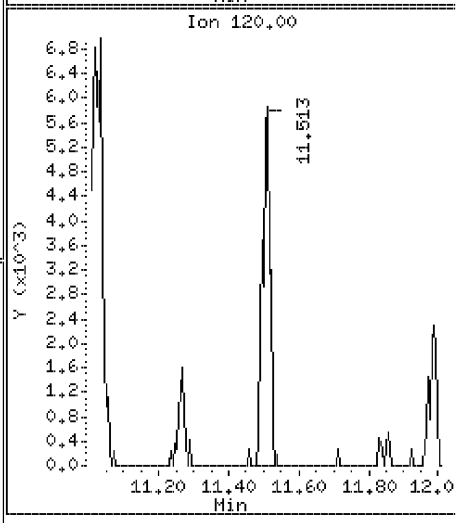
82 1,2,4-Trimethylbenzene

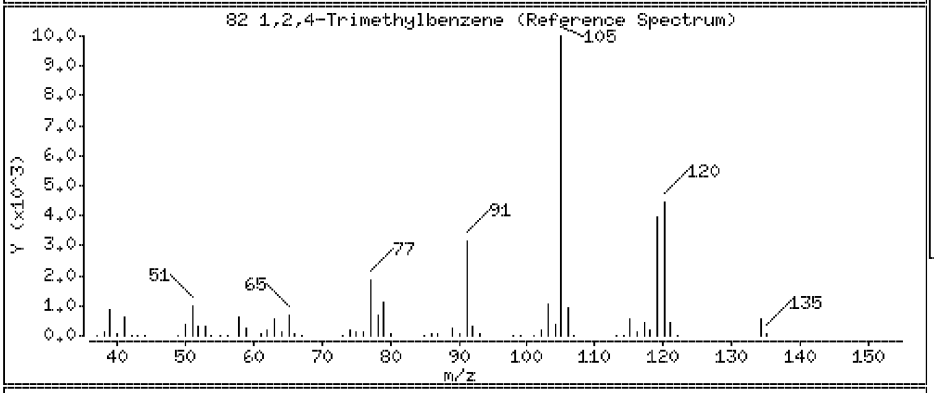
Concentration: 0.226 ppbv

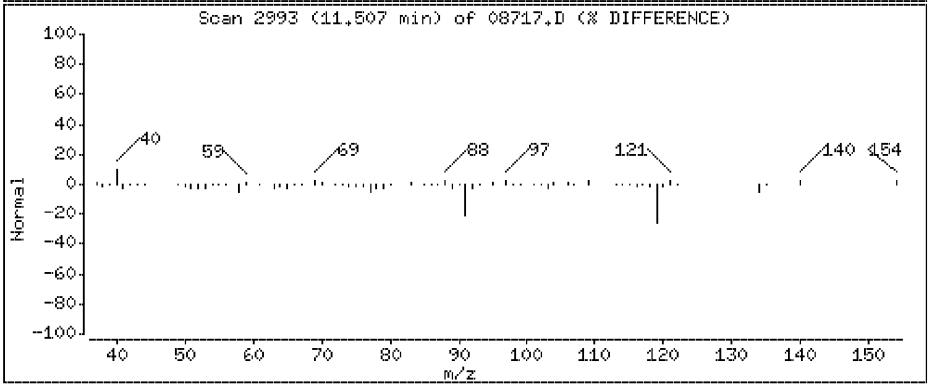












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

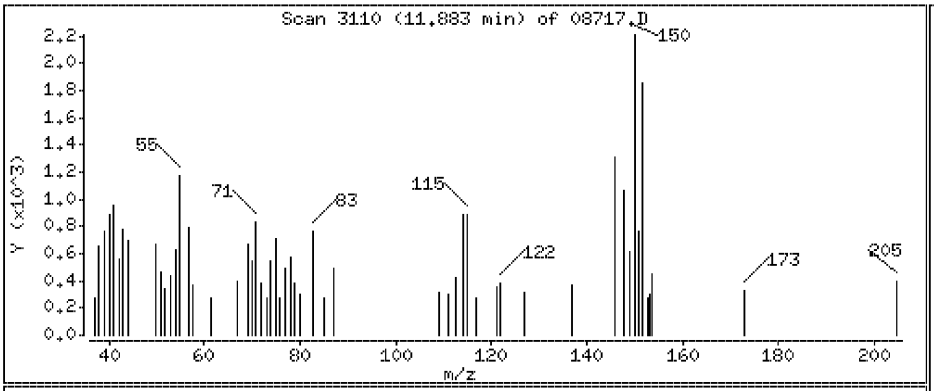
Operator: NCK

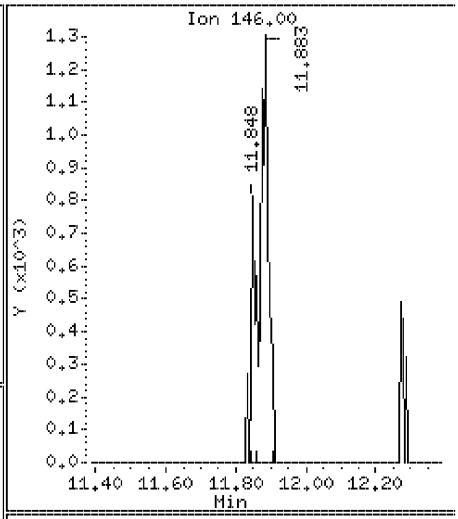
Column phase: J&W DB-5

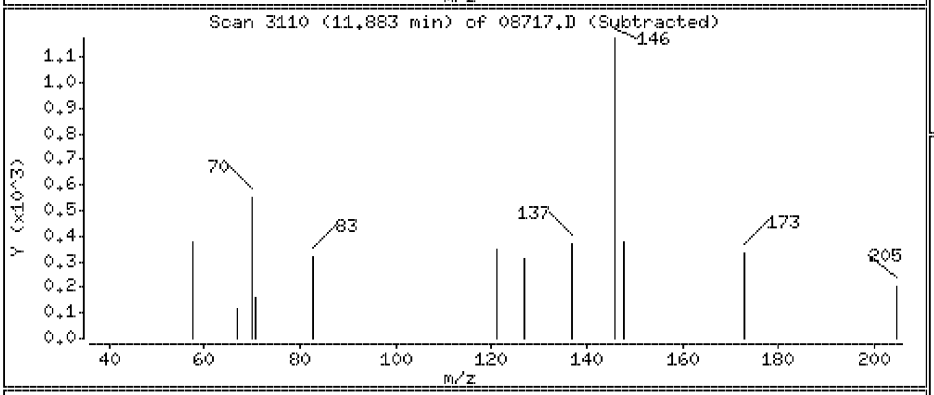
Column diameter: 0.32

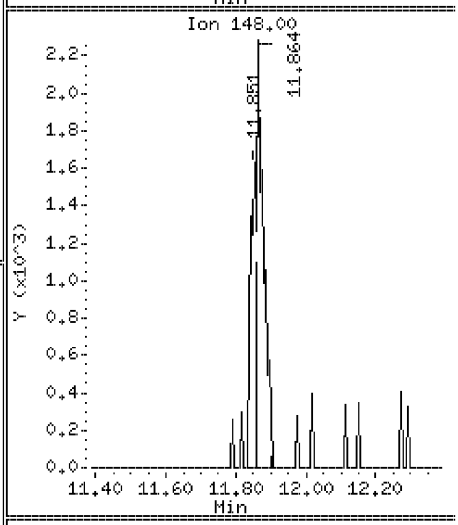
87 1,4-Dichlorobenzene

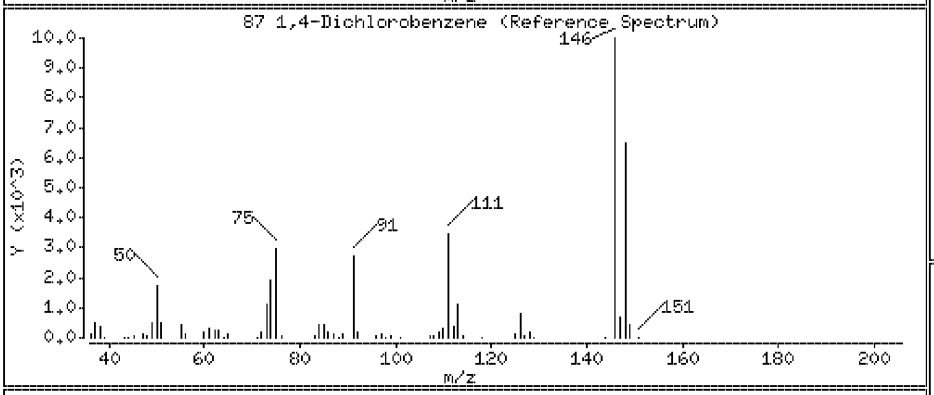
Concentration: 0.0500 ppbv

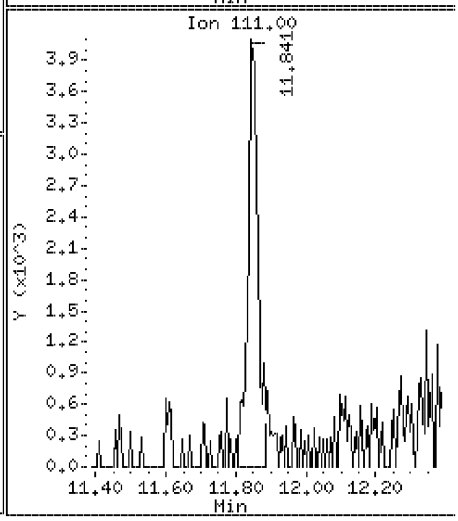


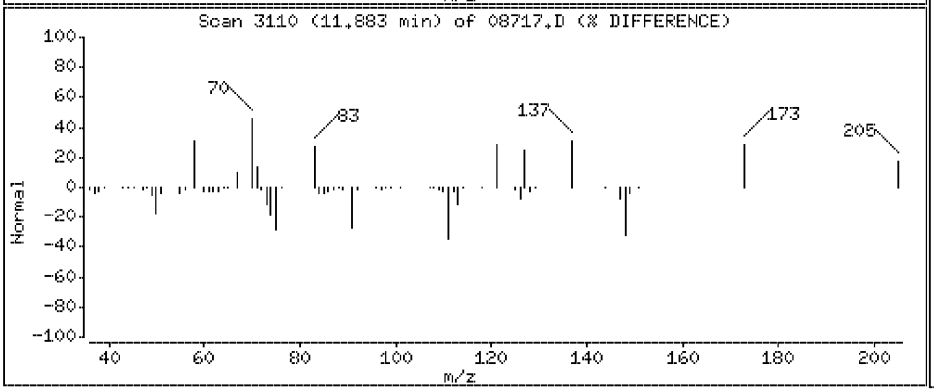












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

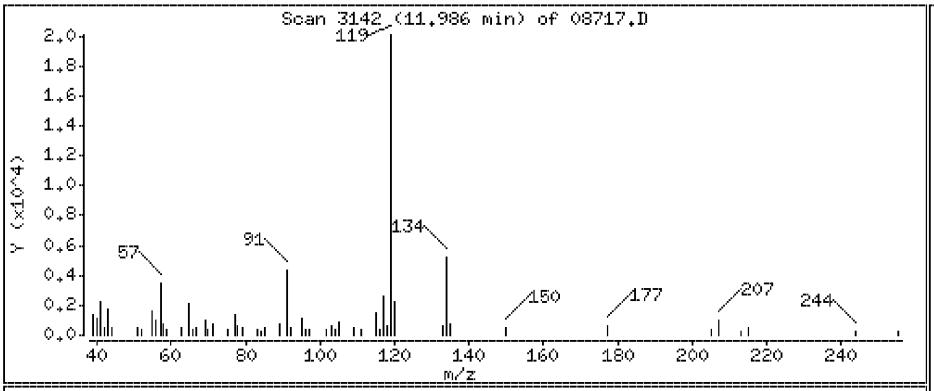
Operator: NCK

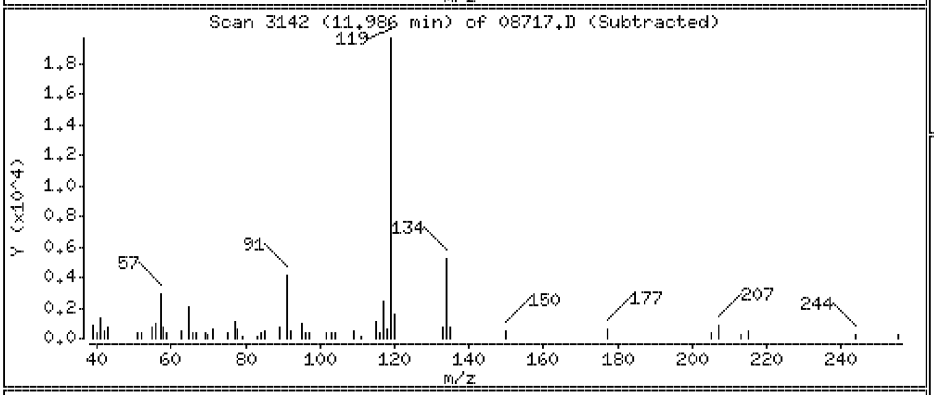
Column phase: J&W DB-5

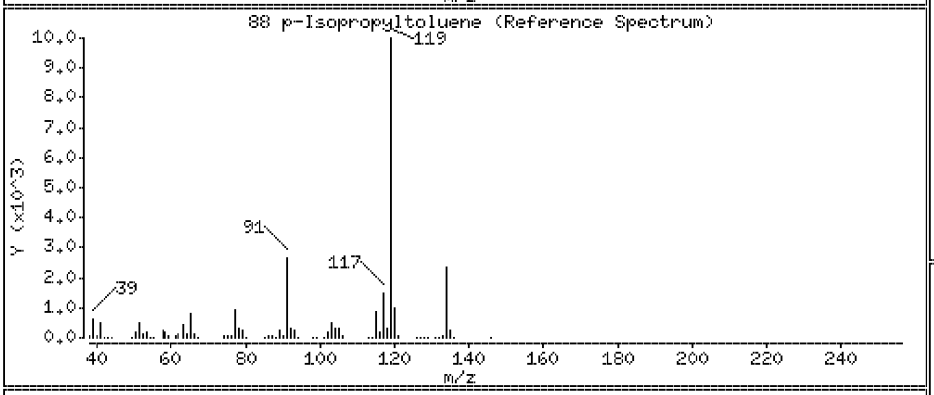
Column diameter: 0.32

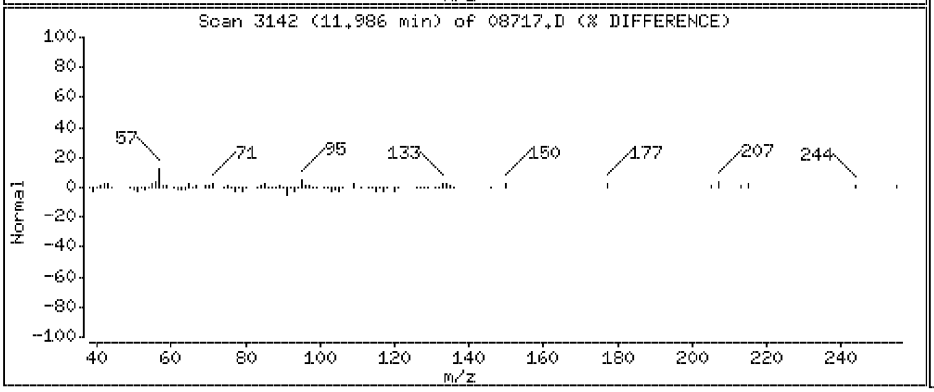
88 p-Isopropyltoluene

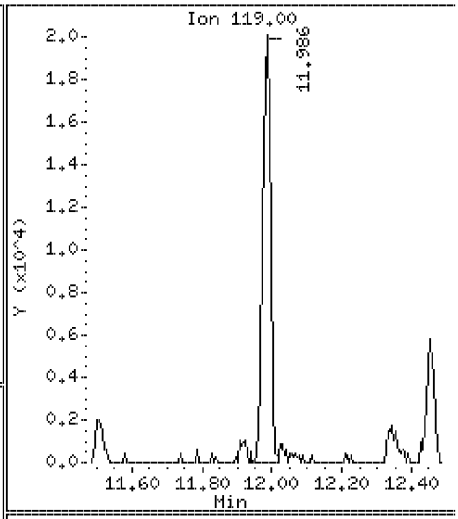
Concentration: 0.267 ppbv

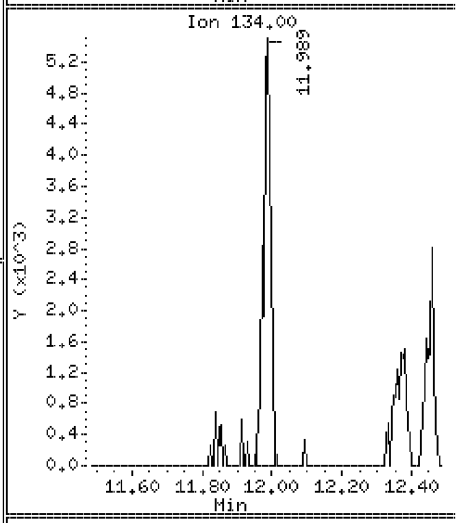


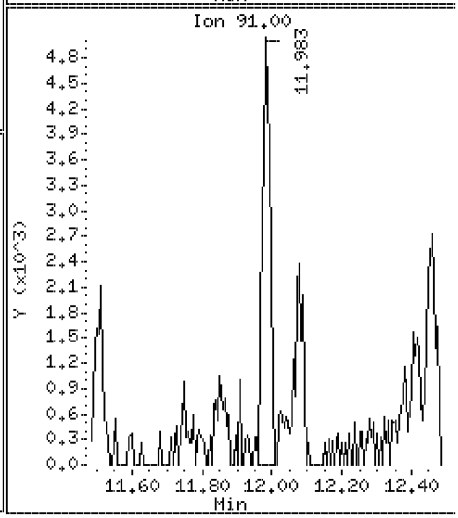












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08717.D

Date : 28-MAR-2017 17:33

Client ID:

Instrument: 10airB.i

Sample Info:

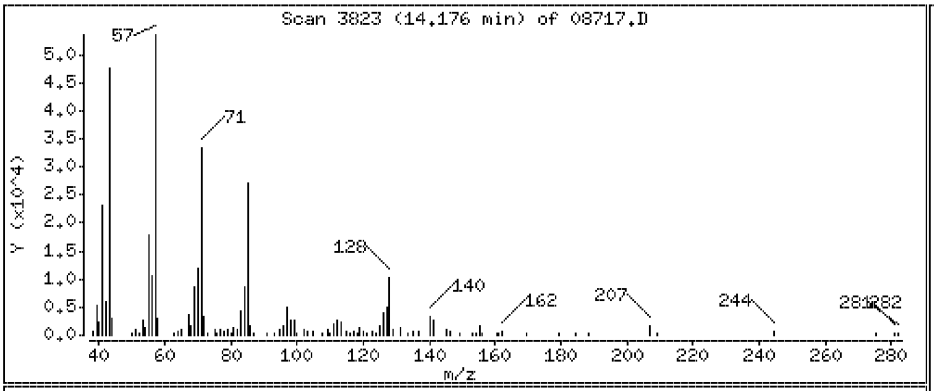
Operator: NCK

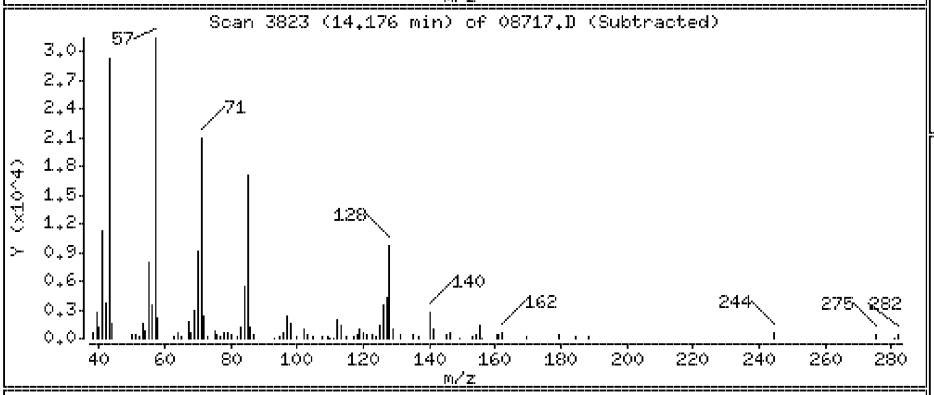
Column phase: J&W DB-5

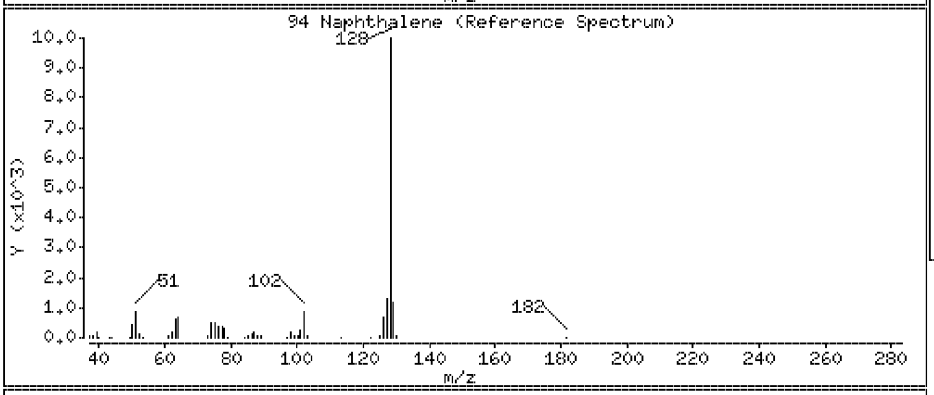
Column diameter: 0.32

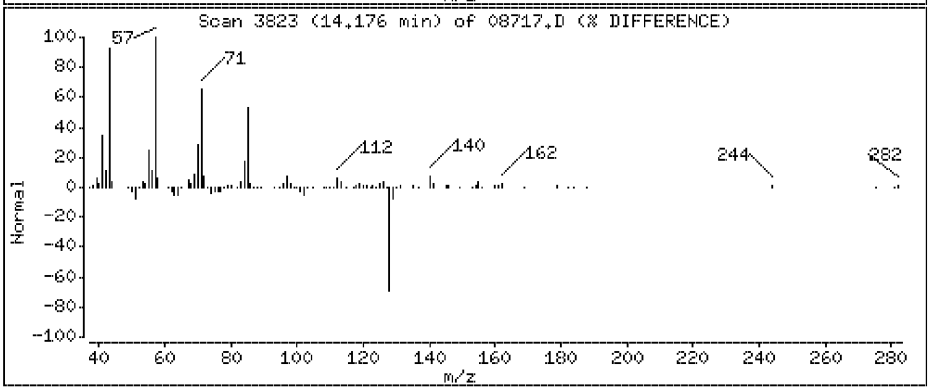
94 Naphthalene

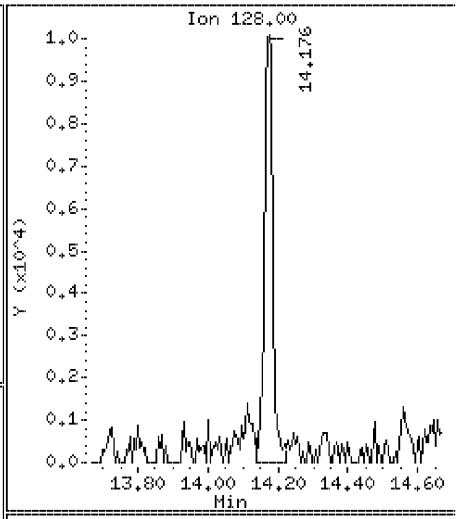
Concentration: 1.03 ppbv

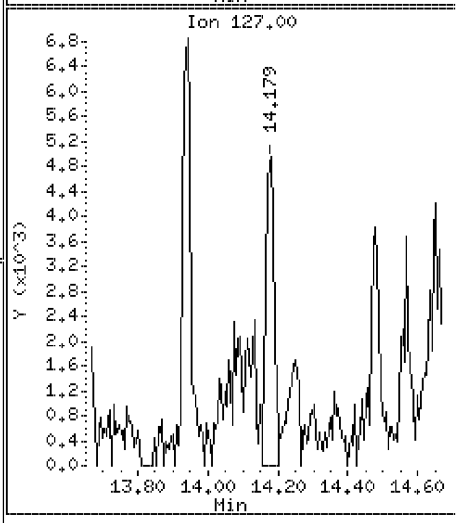






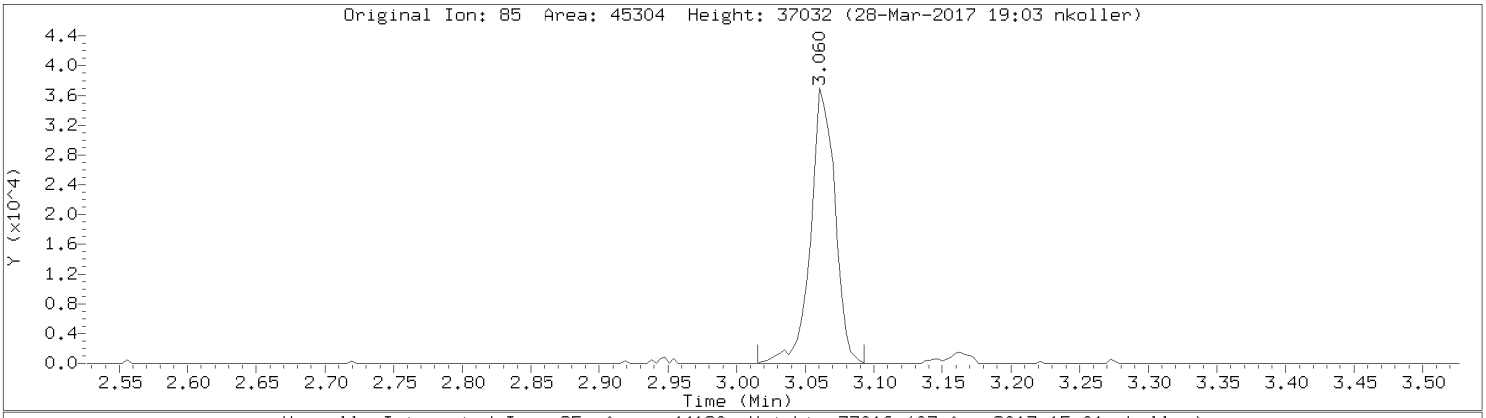


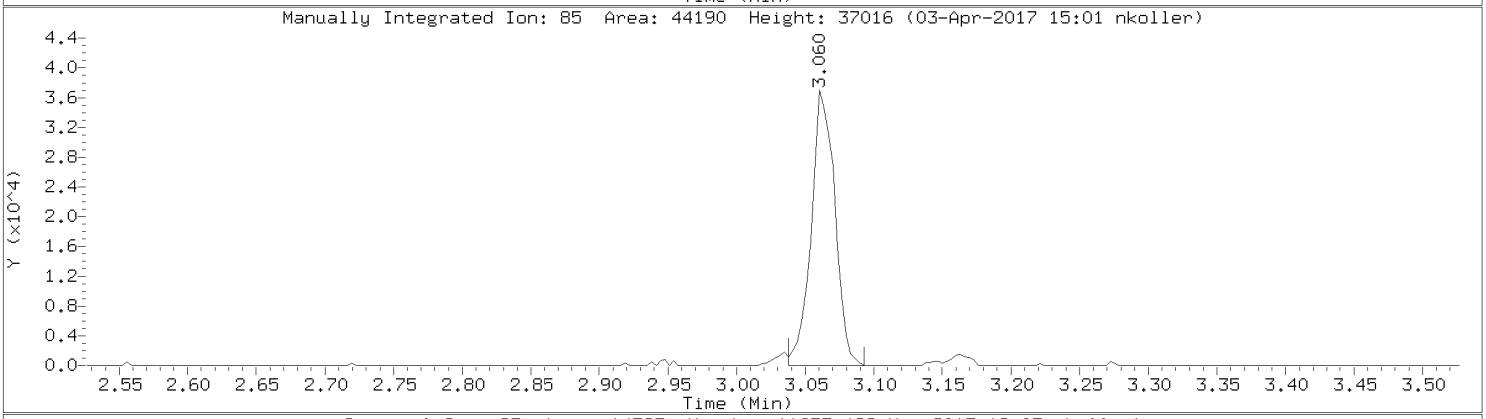


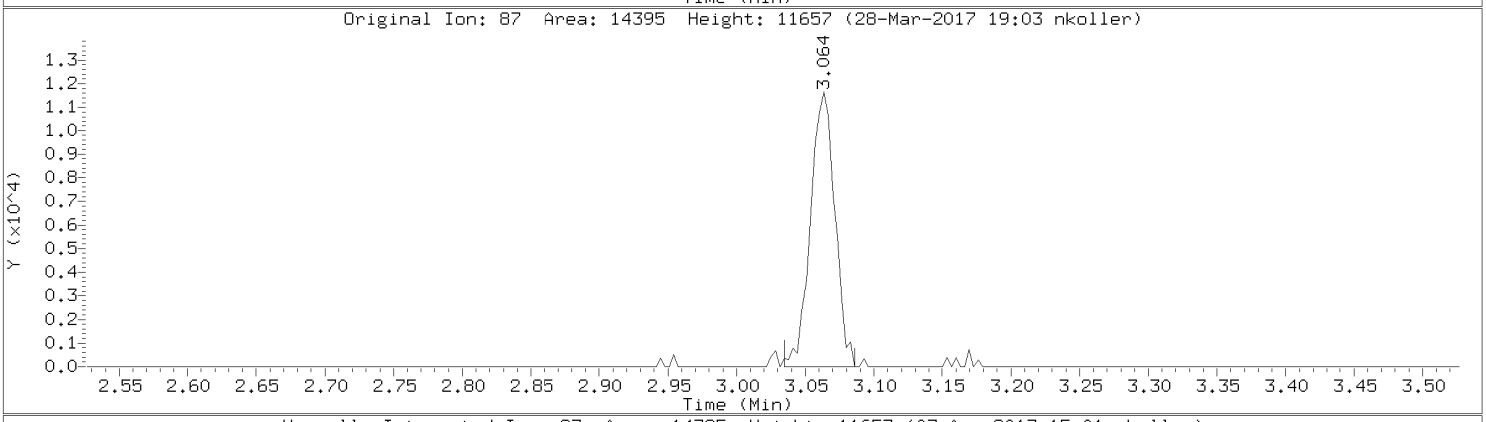


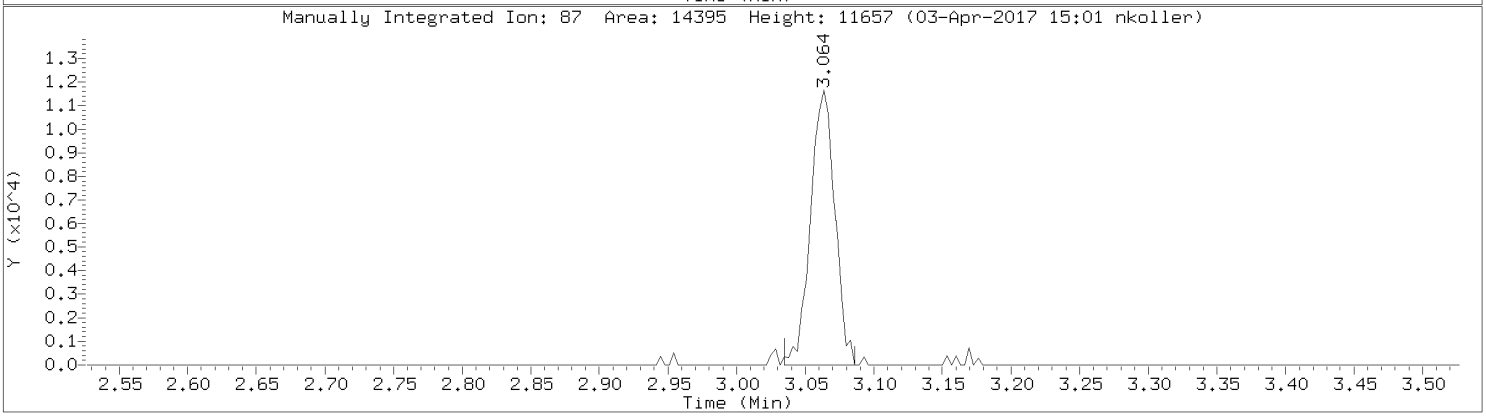
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08717.D
Injection Date: 28-MAR-2017 17:33
Instrument: 10airB.i
Lab Sample ID: 10381335004

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



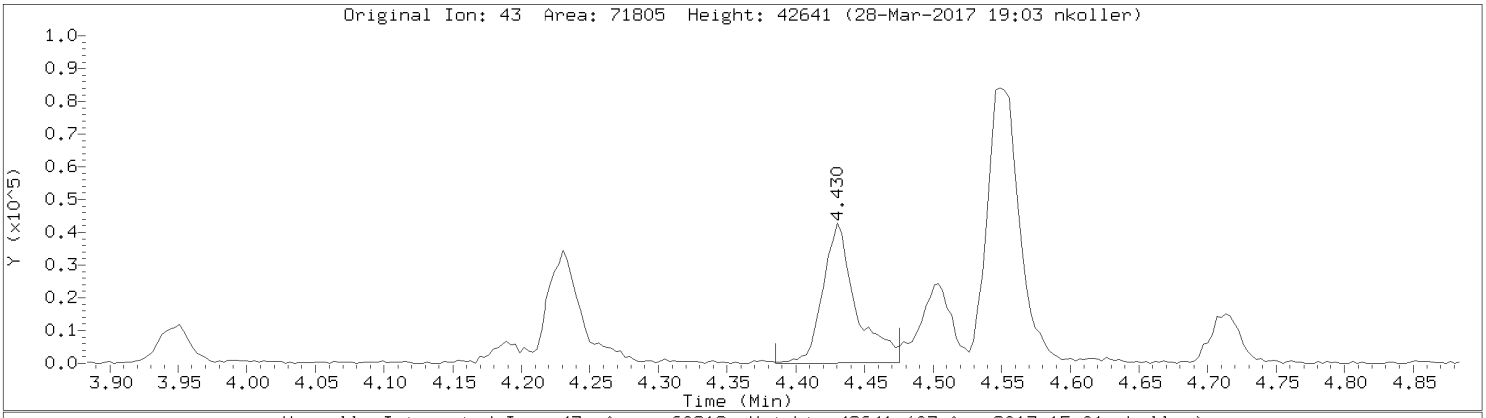


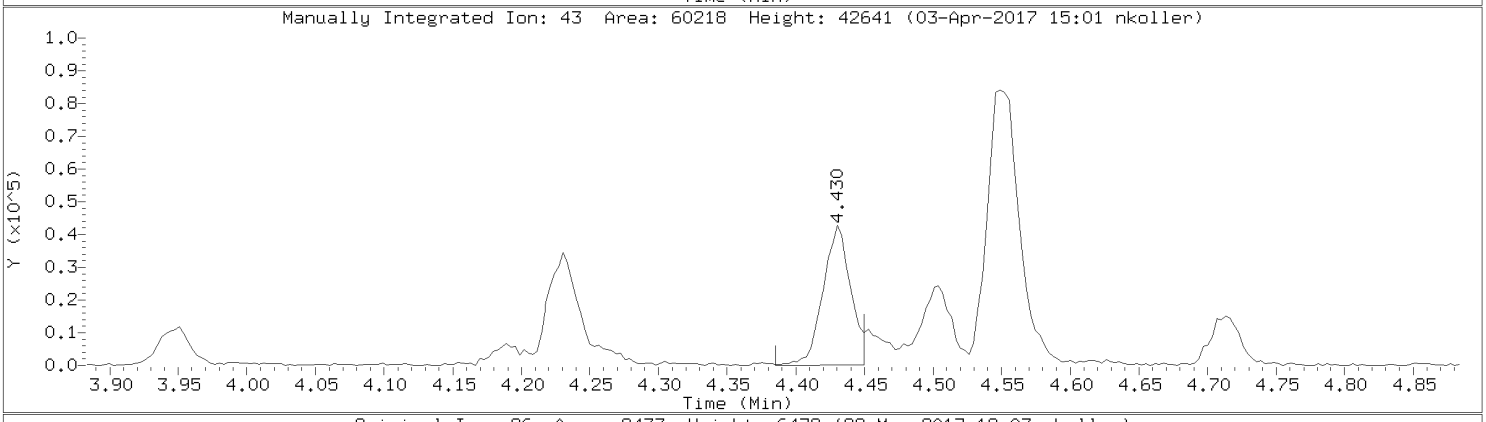


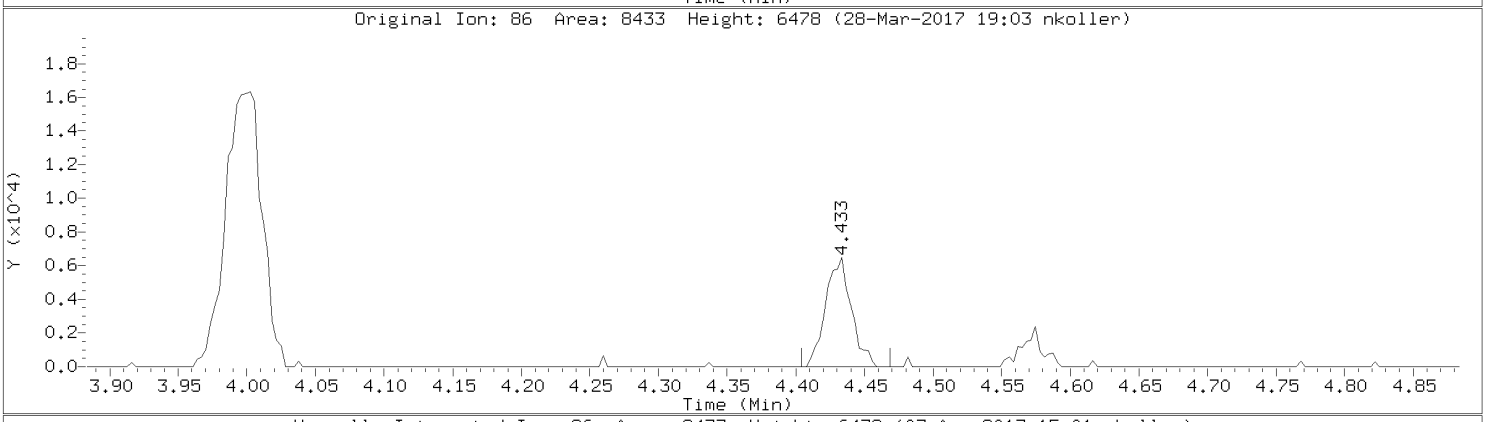


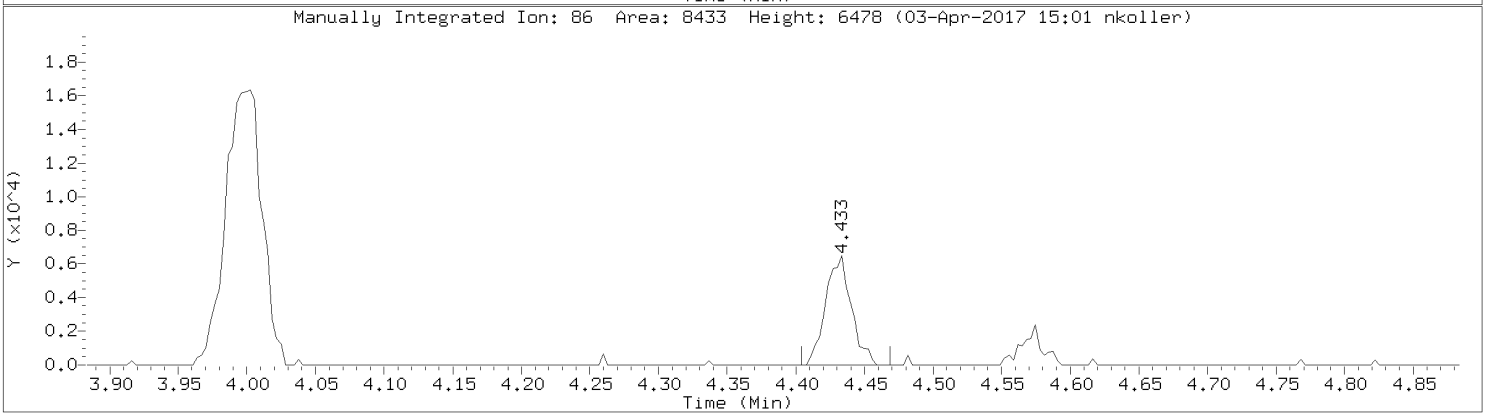
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08717.D
Injection Date: 28-MAR-2017 17:33
Instrument: 10airB.i
Lab Sample ID: 10381335004

Compound: Vinyl Acetate
CAS Number: 108-05-4



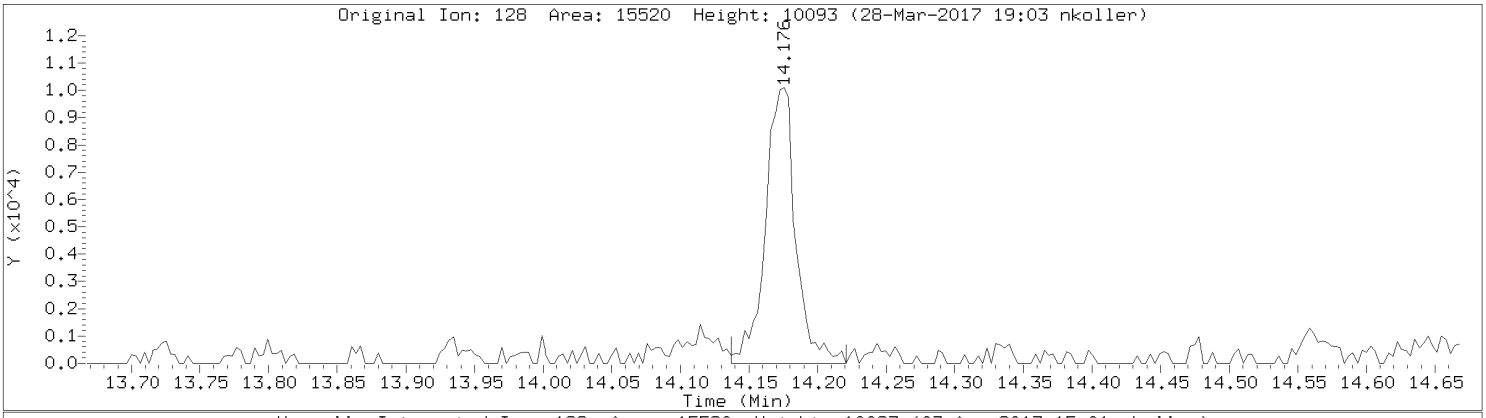


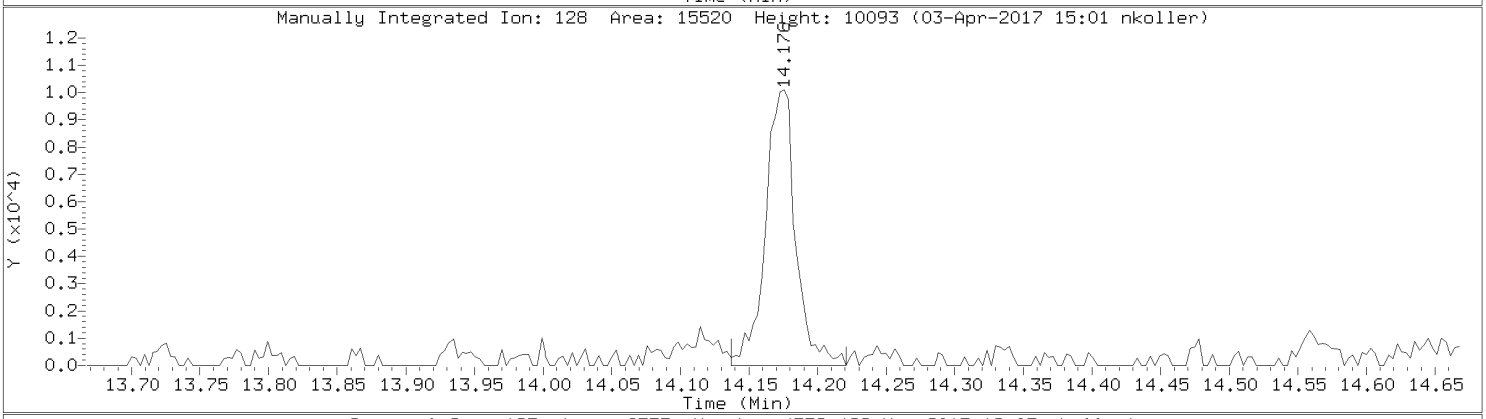


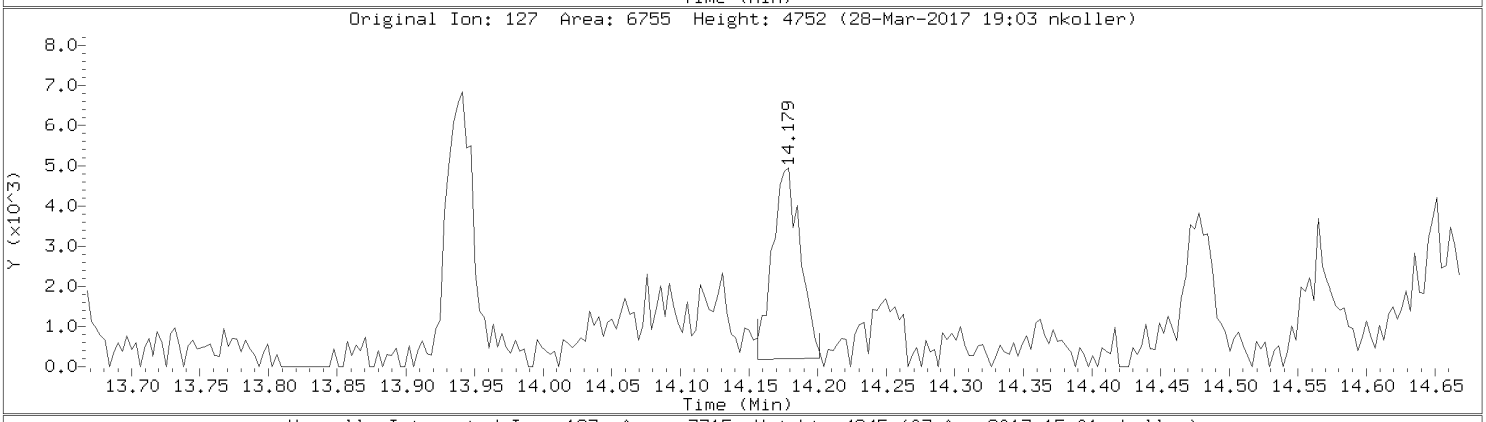


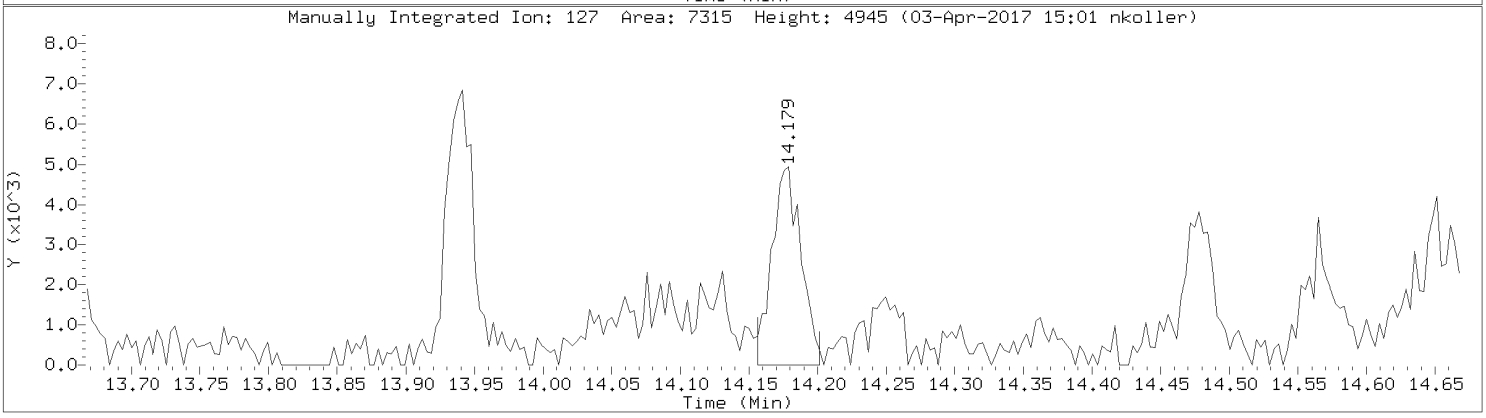
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08717.D
Injection Date: 28-MAR-2017 17:33
Instrument: 10airB.i
Lab Sample ID: 10381335004

Compound: Naphthalene
CAS Number: 91-20-3



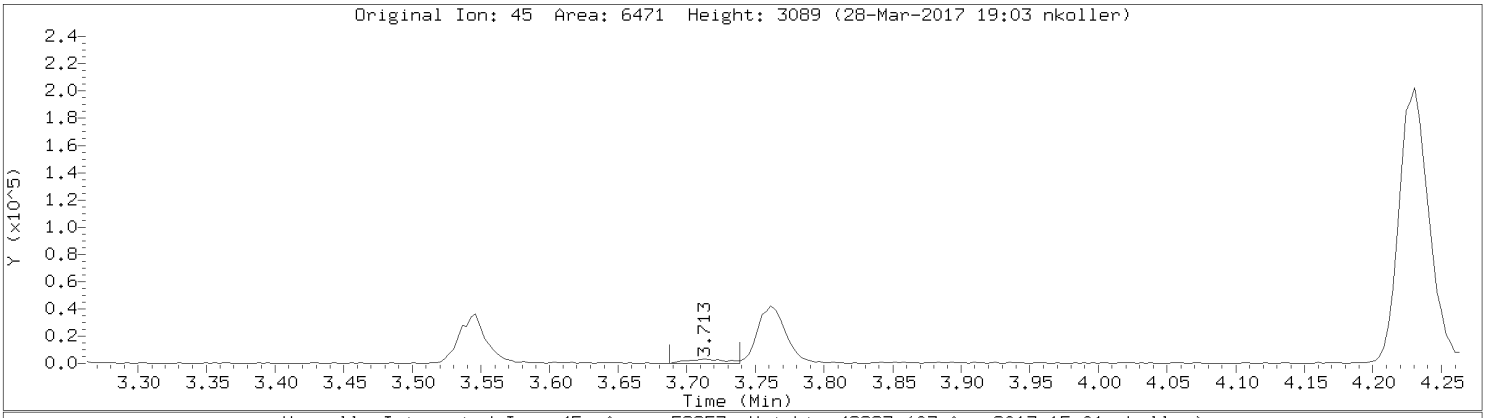


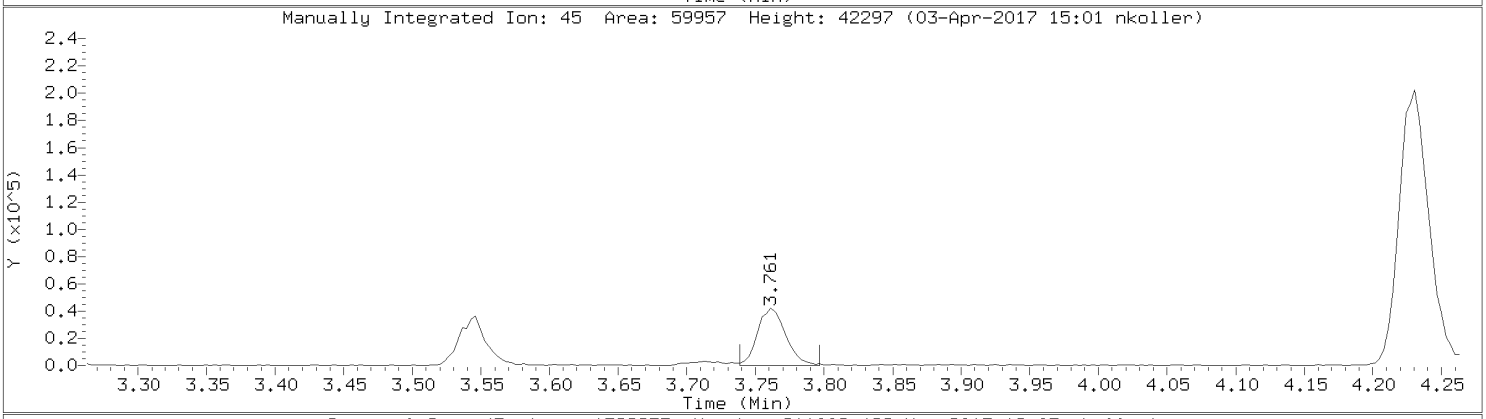


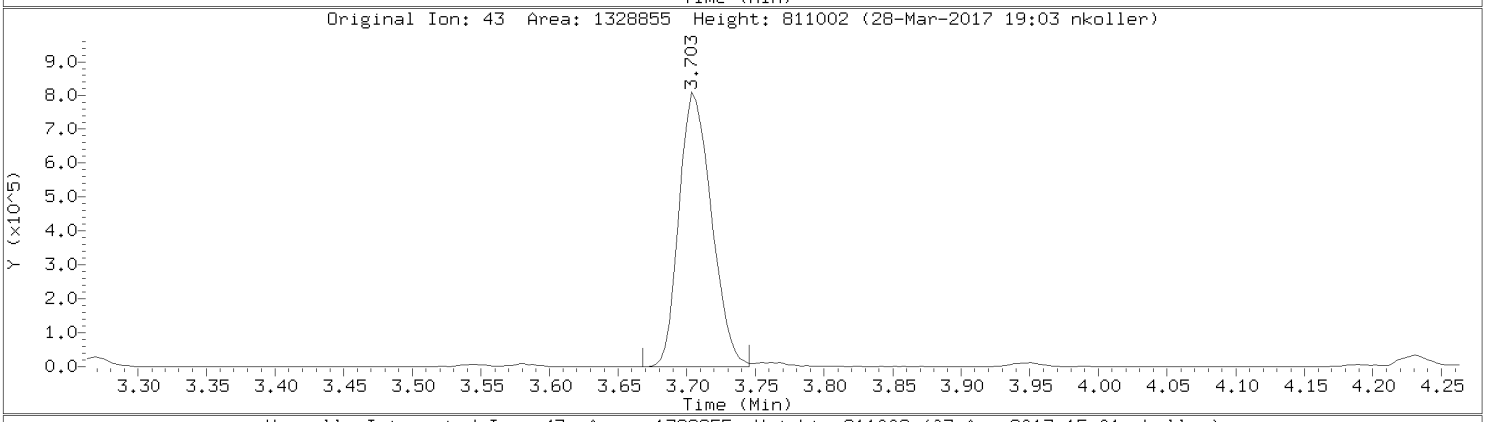


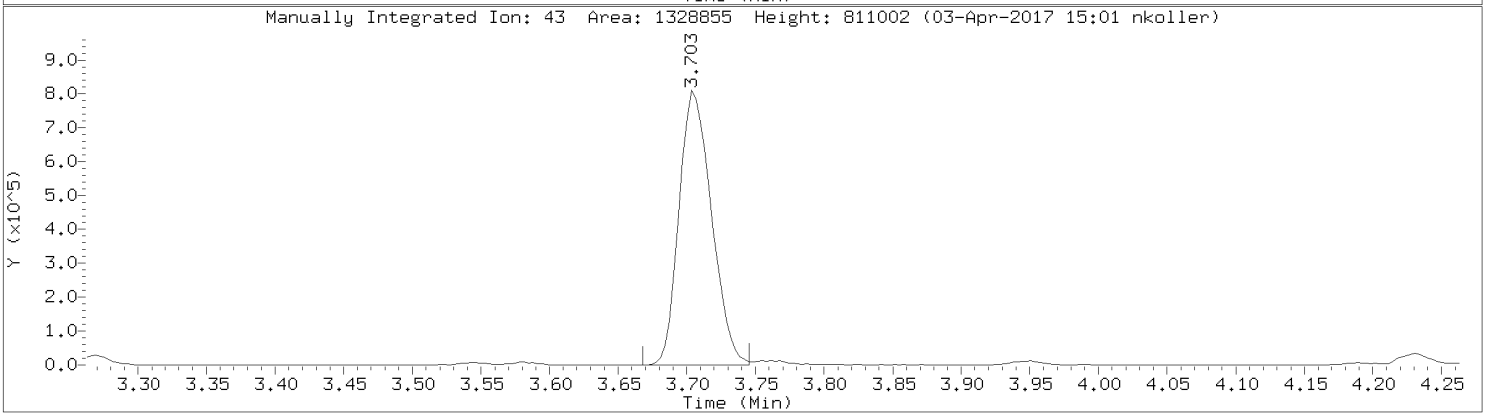
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08717.D
Injection Date: 28-MAR-2017 17:33
Instrument: 10airB.i
Lab Sample ID: 10381335004

Compound: Isopropyl Alcohol
CAS Number: 67-63-0









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_13_20170306 **Lab ID: 10381335004** Collected: 03/06/17 13:43 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/28/17 17:33	75-01-4	
m&p-Xylene	**1.6J**	ug/m3	3.1	1.4	1.75		03/28/17 17:33	179601-23-1	
o-Xylene	**0.84J**	ug/m3	1.5	0.61	1.75		03/28/17 17:33	95-47-6	

Sample: VP-107_20_20170306 **Lab ID: 10381335005** Collected: 03/06/17 13:50 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<67.1**	ug/m3	194	67.1	80.5		03/29/17 04:20	67-64-1	
Allyl chloride	**<18.3**	ug/m3	128	18.3	80.5		03/29/17 04:20	107-05-1	
Benzene	**<9.8**	ug/m3	26.2	9.8	80.5		03/29/17 04:20	71-43-2	
Bromodichloromethane	**<15.6**	ug/m3	109	15.6	80.5		03/29/17 04:20	75-27-4	
Bromoform	**<72.5**	ug/m3	169	72.5	80.5		03/29/17 04:20	75-25-2	
Bromomethane	**<25.0**	ug/m3	63.6	25.0	80.5		03/29/17 04:20	74-83-9	
1,3-Butadiene	**<14.2**	ug/m3	36.2	14.2	80.5		03/29/17 04:20	106-99-0	
2-Butanone (MEK)	**<18.4**	ug/m3	242	18.4	80.5		03/29/17 04:20	78-93-3	
Carbon disulfide	**<8.1**	ug/m3	50.7	8.1	80.5		03/29/17 04:20	75-15-0	
Carbon tetrachloride	**<15.5**	ug/m3	51.5	15.5	80.5		03/29/17 04:20	56-23-5	
Chlorobenzene	**<10.8**	ug/m3	75.7	10.8	80.5		03/29/17 04:20	108-90-7	
Chlorodifluoromethane	**55.3J**	ug/m3	57.9	22.2	80.5		03/29/17 04:20	75-45-6	
Chloroethane	**<15.6**	ug/m3	43.5	15.6	80.5		03/29/17 04:20	75-00-3	
Chloroform	**185**	ug/m3	39.9	15.3	80.5		03/29/17 04:20	67-66-3	
Chloromethane	**<8.7**	ug/m3	33.8	8.7	80.5		03/29/17 04:20	74-87-3	
Chloropentafluoroethane	**<258**	ug/m3	258	258	80.5		03/29/17 04:20	76-15-3	
Cyclohexane	**<25.4**	ug/m3	56.4	25.4	80.5		03/29/17 04:20	110-82-7	
1,2-Dibromo-3-chloropropane	**<395**	ug/m3	395	395	80.5		03/29/17 04:20	96-12-8	
Dibromochloromethane	**<68.9**	ug/m3	139	68.9	80.5		03/29/17 04:20	124-48-1	
1,2-Dibromoethane (EDB)	**<62.3**	ug/m3	126	62.3	80.5		03/29/17 04:20	106-93-4	
1,2-Dichlorobenzene	**<41.2**	ug/m3	98.2	41.2	80.5		03/29/17 04:20	95-50-1	
1,3-Dichlorobenzene	**<42.7**	ug/m3	98.2	42.7	80.5		03/29/17 04:20	541-73-1	
1,4-Dichlorobenzene	**<40.2**	ug/m3	98.2	40.2	80.5		03/29/17 04:20	106-46-7	
Dichlorodifluoromethane	**<38.6**	ug/m3	81.3	38.6	80.5		03/29/17 04:20	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/m3	66.0	12.6	80.5		03/29/17 04:20	75-34-3	
1,2-Dichloroethane	**<16.5**	ug/m3	33.0	16.5	80.5		03/29/17 04:20	107-06-2	
1,1-Dichloroethene	**<19.2**	ug/m3	65.2	19.2	80.5		03/29/17 04:20	75-35-4	
cis-1,2-Dichloroethene	**218**	ug/m3	65.2	19.8	80.5		03/29/17 04:20	156-59-2	
trans-1,2-Dichloroethene	**<30.9**	ug/m3	65.2	30.9	80.5		03/29/17 04:20	156-60-5	
1,2-Dichloropropane	**<21.7**	ug/m3	75.7	21.7	80.5		03/29/17 04:20	78-87-5	
cis-1,3-Dichloropropene	**<29.7**	ug/m3	74.1	29.7	80.5		03/29/17 04:20	10061-01-5	
trans-1,3-Dichloropropene	**<20.9**	ug/m3	186	20.9	80.5		03/29/17 04:20	10061-02-6	
Dichlorotetrafluoroethane	**<25.0**	ug/m3	114	25.0	80.5		03/29/17 04:20	76-14-2	
Freon 123	**<256**	ug/m3	256	256	80.5		03/29/17 04:20	306-83-2	
1,4-Dioxane (p-Dioxane)	**<28.3**	ug/m3	295	28.3	80.5		03/29/17 04:20	123-91-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D
Report Date: 03-Apr-2017 15:18

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08739.D
Lab Smp Id: 10381335005
Inj Date : 29-MAR-2017 04:20
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 39
Dil Factor: 80.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	80.500	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.057	2.996	(0.545)	2266	0.19097	15.4(QH)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.671	3.658	(0.655)	15644	0.17506	14.1	
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.941	3.938	(0.703)	123556	1.72175	139	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D
Report Date: 03-Apr-2017 15:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.478	(0.799)	843529	9.69546	9.70	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.706	4.722	(0.839)	25884	0.67283	54.2(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.838	(0.858)	35297	0.46252	37.2	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.606	5.610	(1.000)	2319267	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.986	5.986	(1.068)	8826302	125.721	10100(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.072	7.073	(1.262)	1851155	9.46759	9.47	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.982	7.986	(0.924)	88463	1.02370	82.4	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	1319468	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	9.568	9.577	(1.108)	2562	0.01690	1.36(a)	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D
Report Date: 03-Apr-2017 15:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	480573	7.67229	7.67	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D
Report Date: 03-Apr-2017 15:18

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08739.D
Lab Smp Id: 10381335005
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

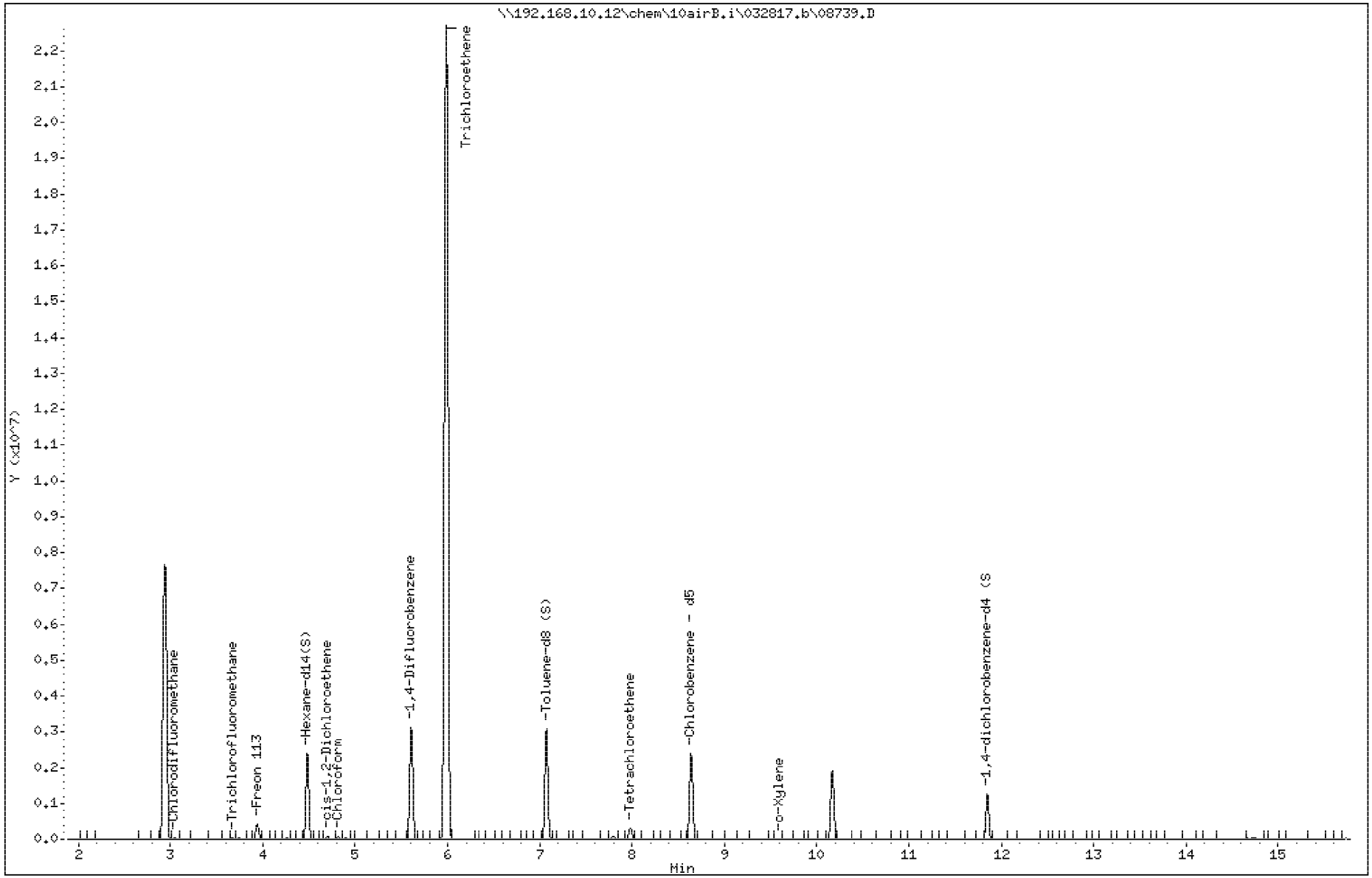
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2319267	-18.10
67 Chlorobenzene - d	1804482	1082689	2526275	1319468	-26.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D
Date : 29-MAR-2017 04:20
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D

Date : 29-MAR-2017 04:20

Client ID:

Instrument: 10airB.i

Sample Info:

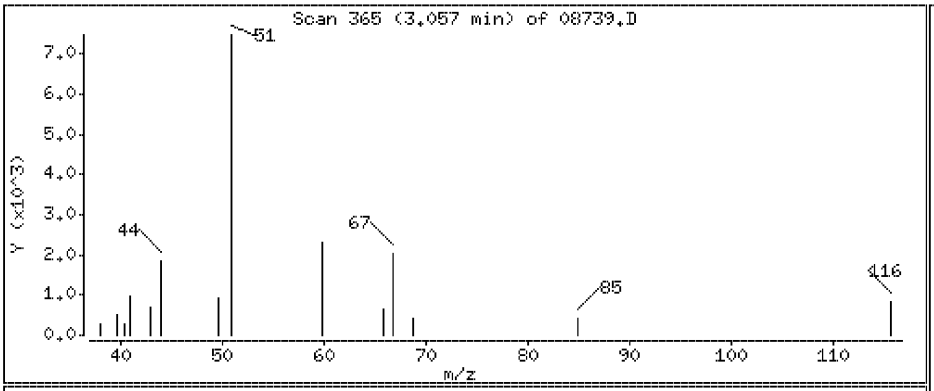
Operator: NCK

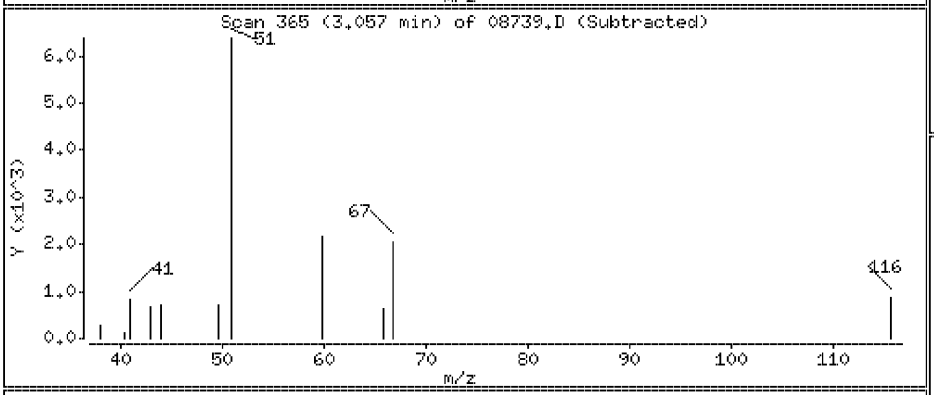
Column phase: J&W DB-5

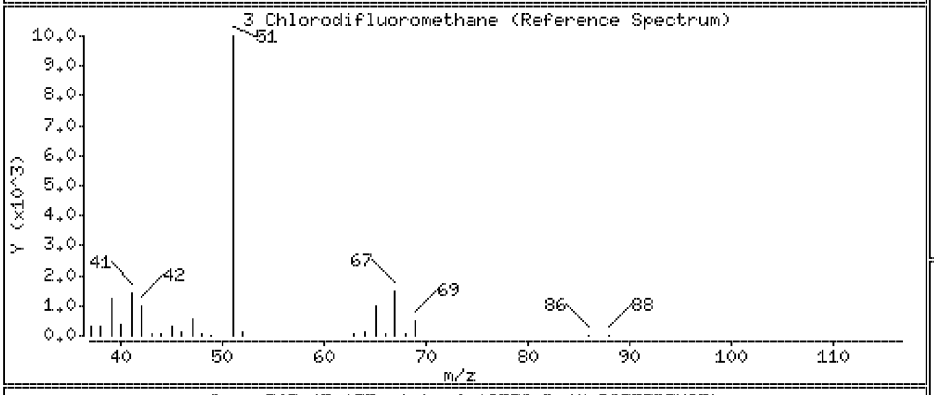
Column diameter: 0.32

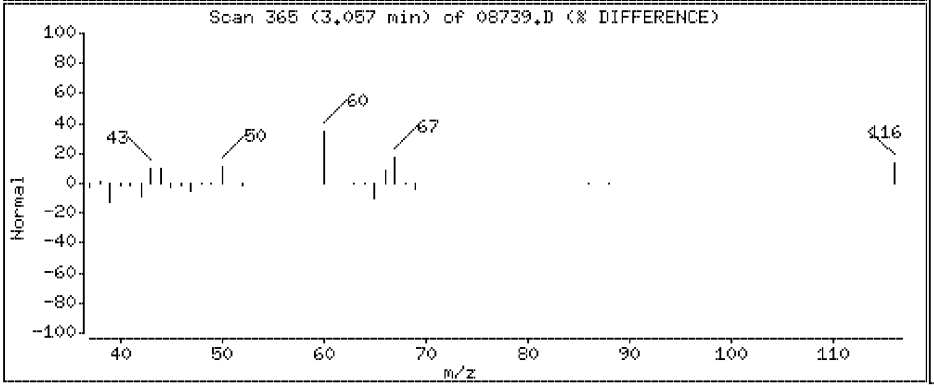
3 Chlorodifluoromethane

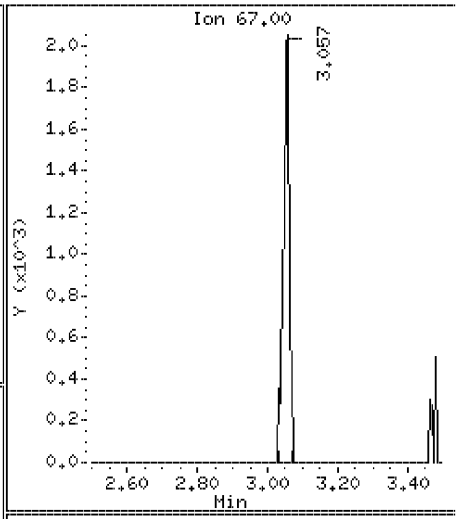
Concentration: 15.4 ppbv

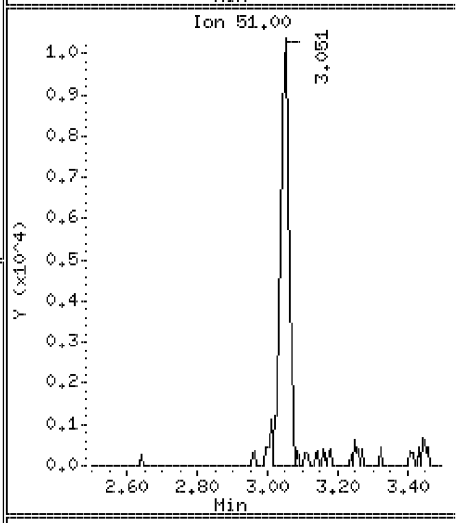


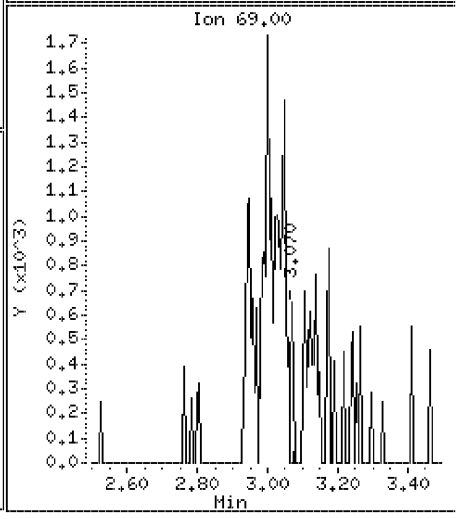












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D

Date : 29-MAR-2017 04:20

Client ID:

Instrument: 10airB.i

Sample Info:

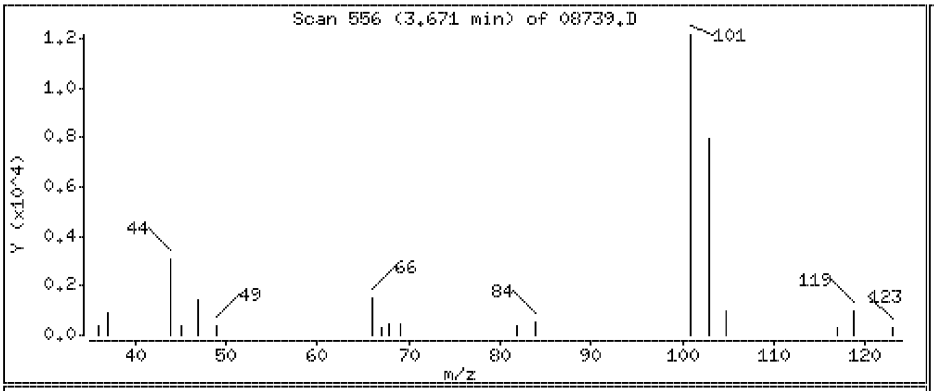
Operator: NCK

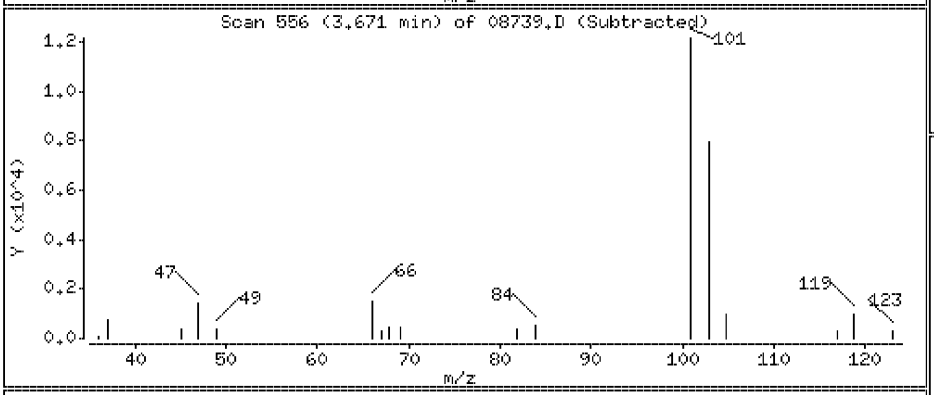
Column phase: J&W DB-5

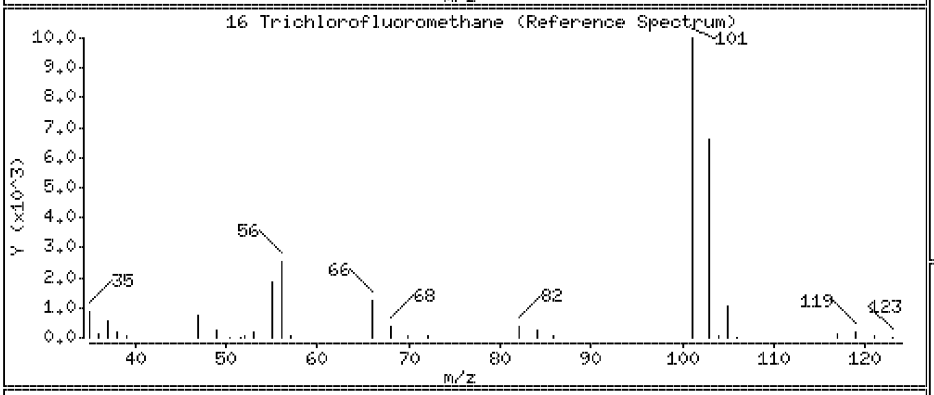
Column diameter: 0.32

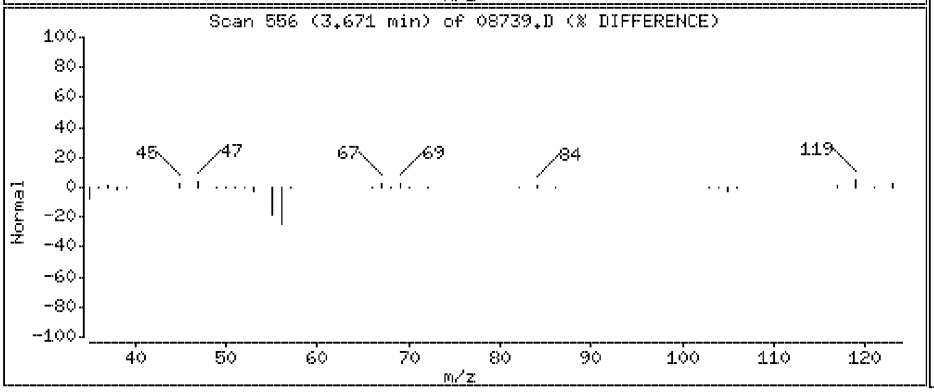
16 Trichlorofluoromethane

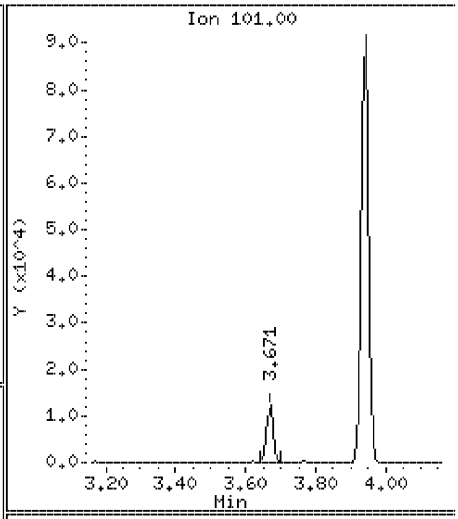
Concentration: 14.1 ppbv

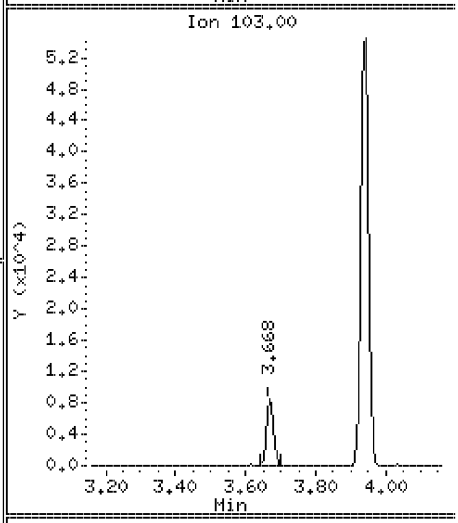


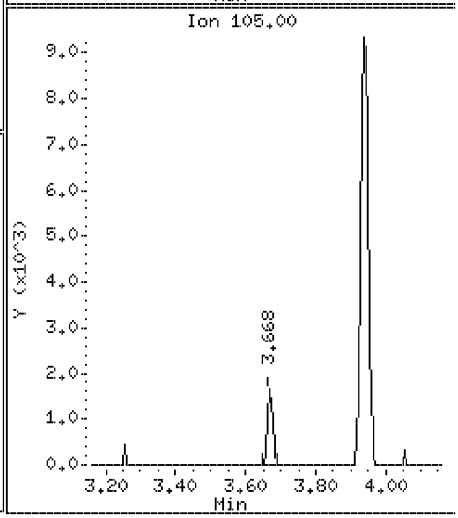












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D

Date : 29-MAR-2017 04:20

Client ID:

Instrument: 10airB.i

Sample Info:

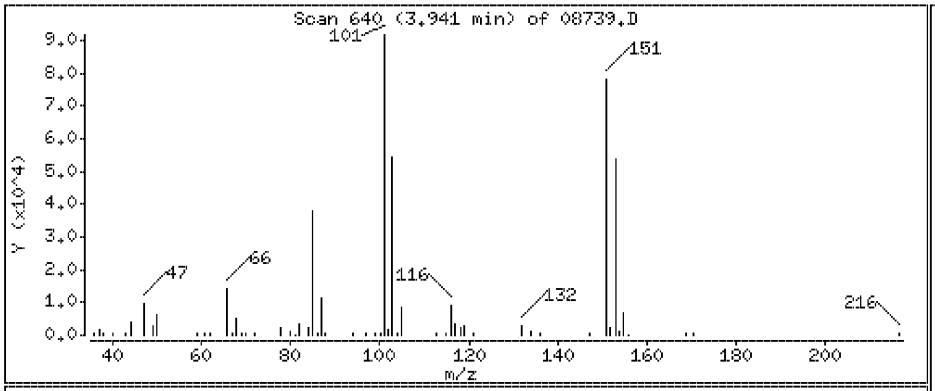
Operator: NCK

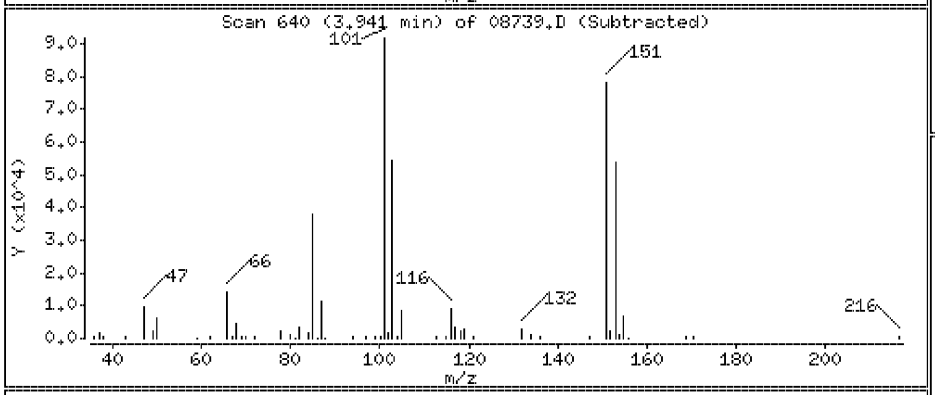
Column phase: J&W DB-5

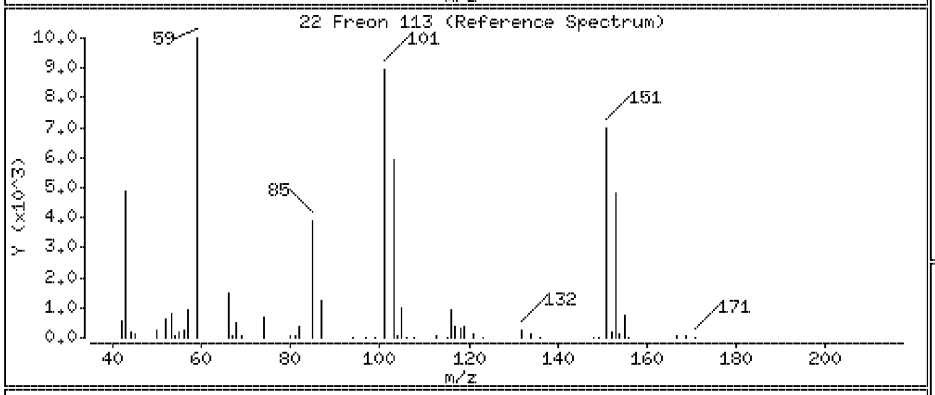
Column diameter: 0.32

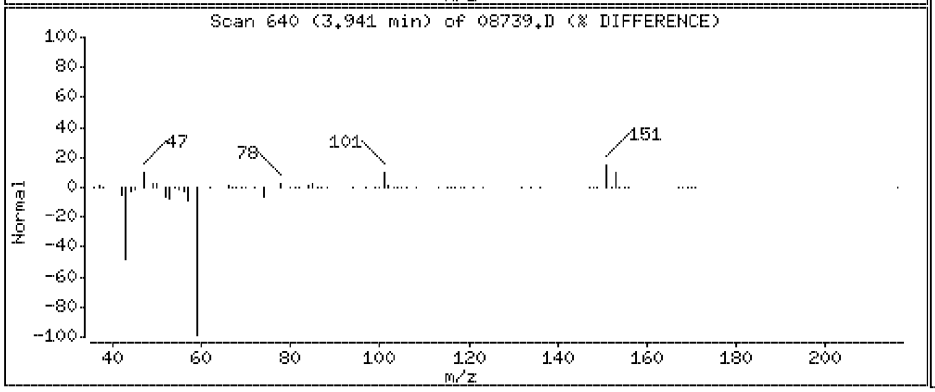
22 Freon 113

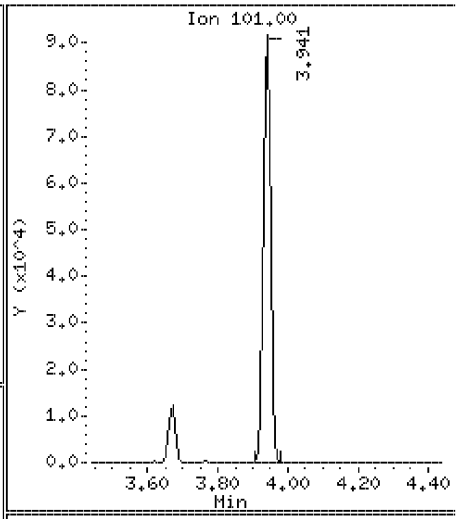
Concentration: 139 ppbv

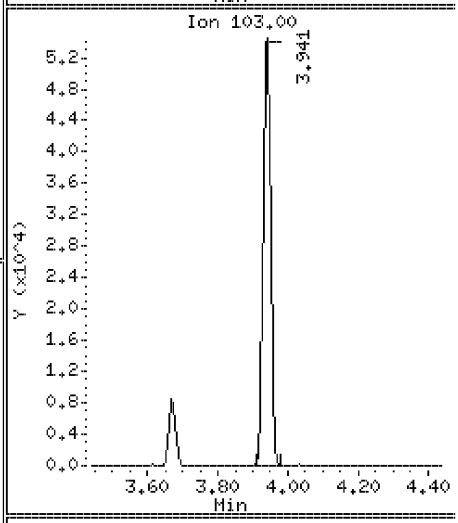


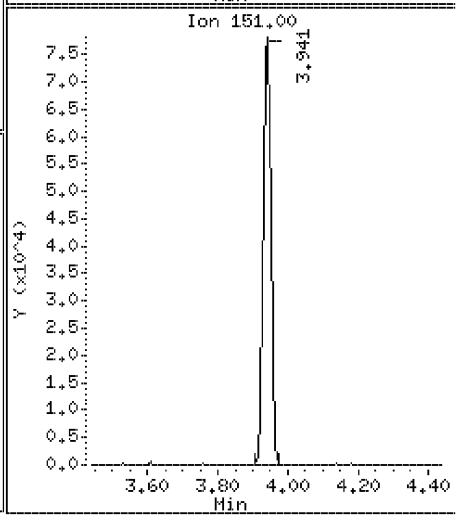












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D

Date : 29-MAR-2017 04:20

Client ID:

Instrument: 10airB.i

Sample Info:

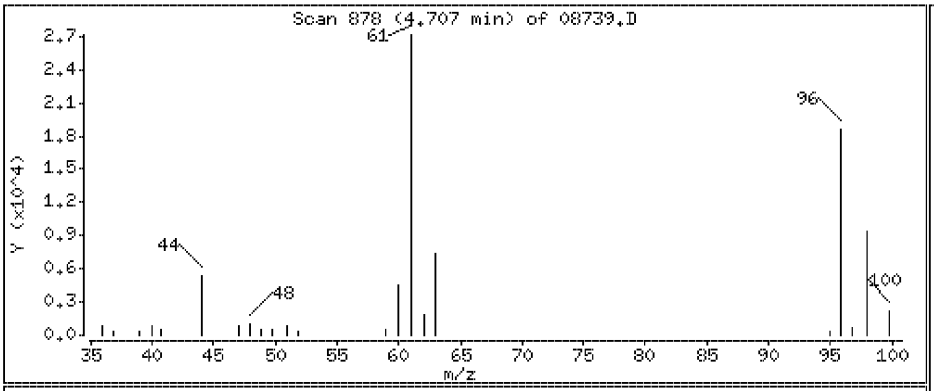
Operator: NCK

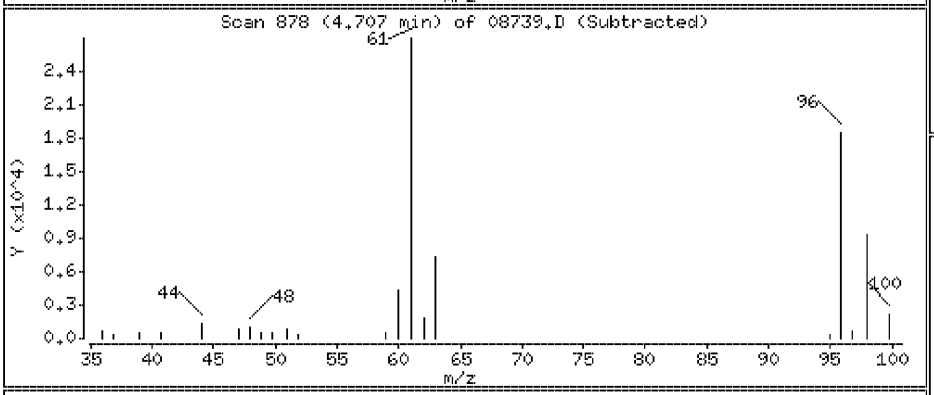
Column phase: J&W DB-5

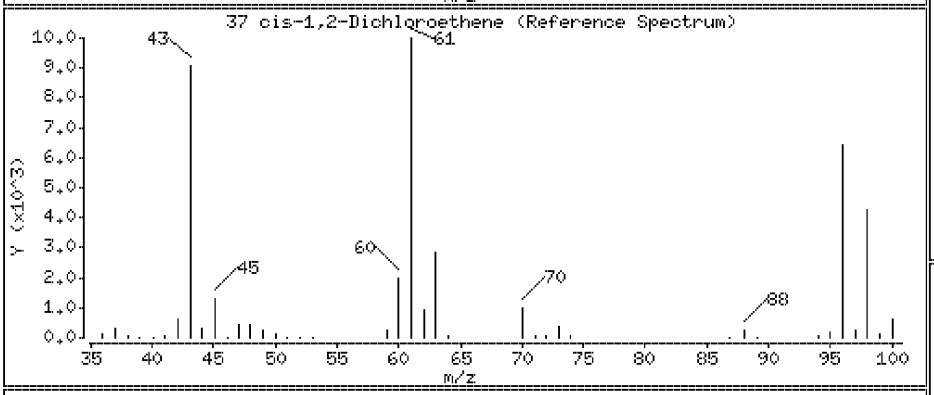
Column diameter: 0.32

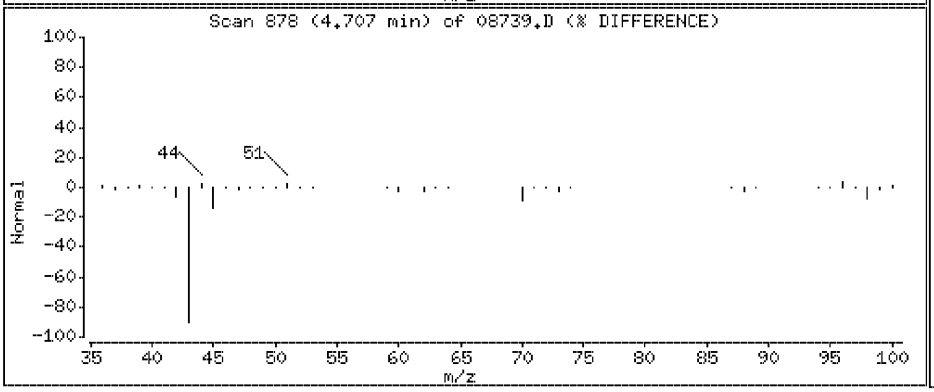
37 cis-1,2-Dichloroethene

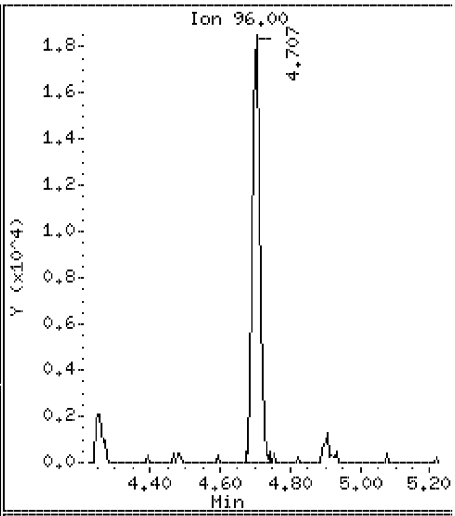
Concentration: 54.2 ppbv

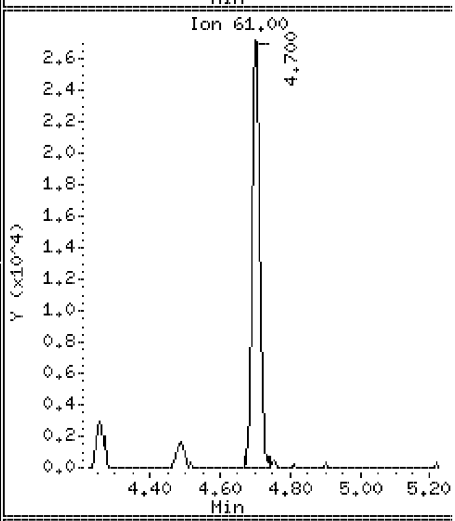


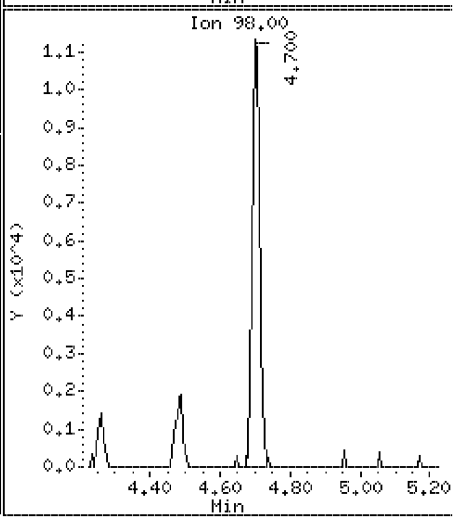












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D

Date : 29-MAR-2017 04:20

Client ID:

Instrument: 10airB.i

Sample Info:

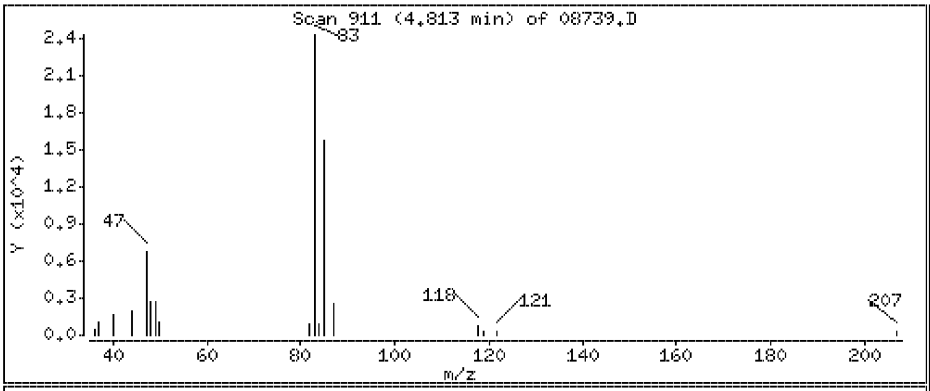
Operator: NCK

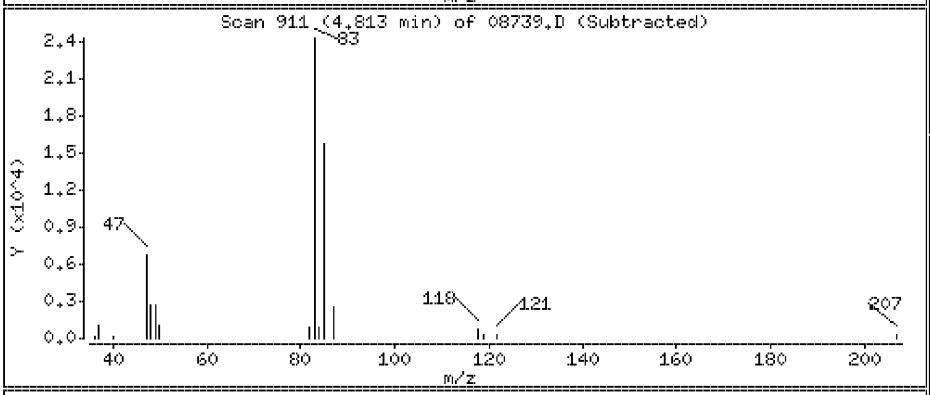
Column phase: J&W DB-5

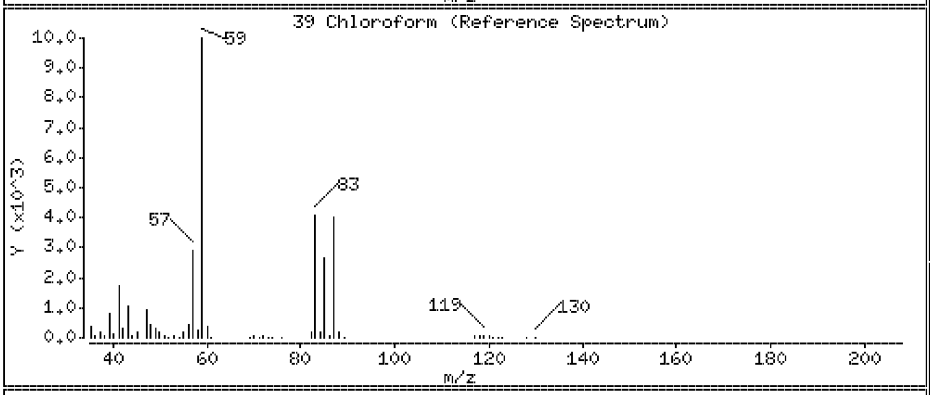
Column diameter: 0.32

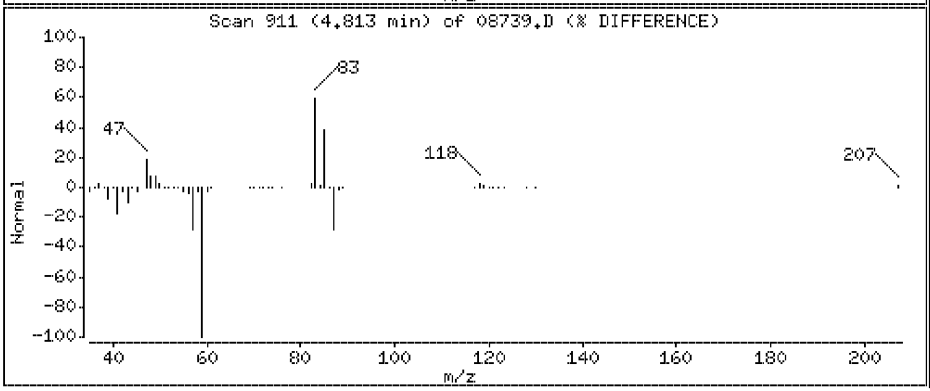
39 Chloroform

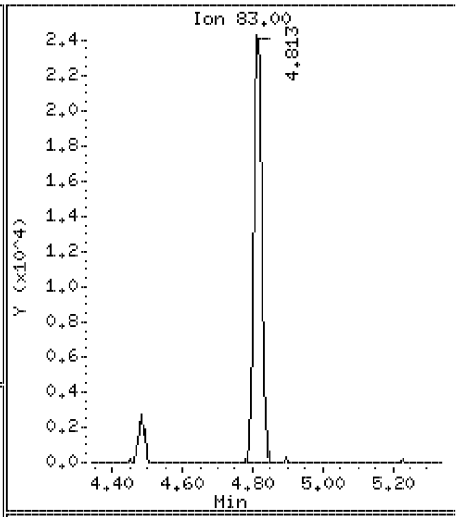
Concentration: 37.2 ppbv

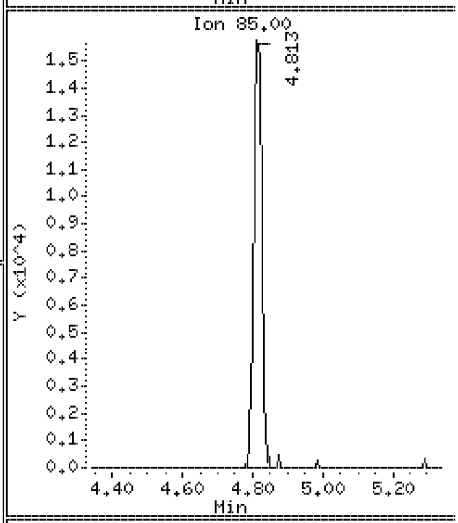


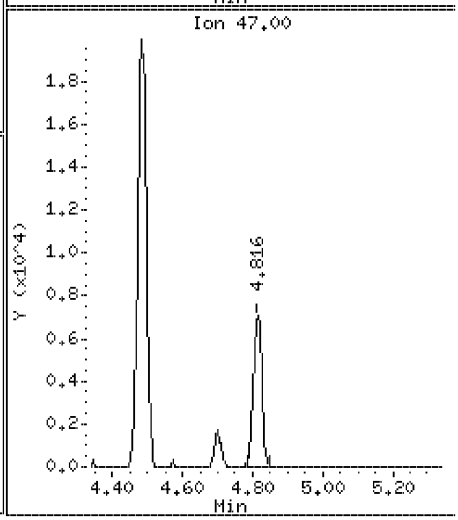












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D

Date : 29-MAR-2017 04:20

Client ID:

Instrument: 10airB.i

Sample Info:

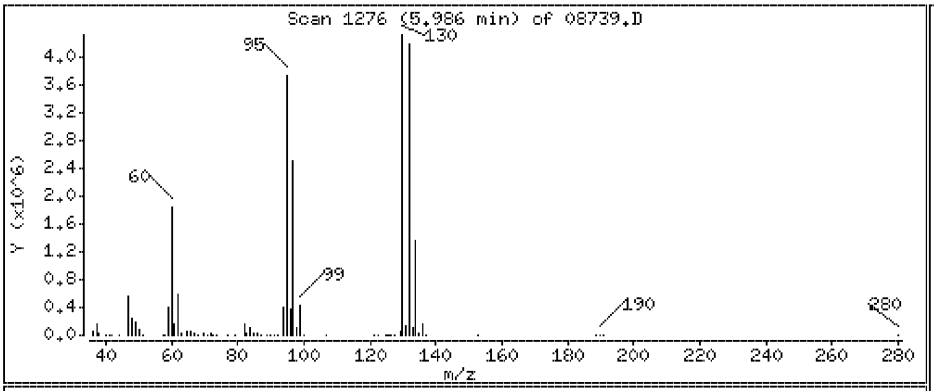
Operator: NCK

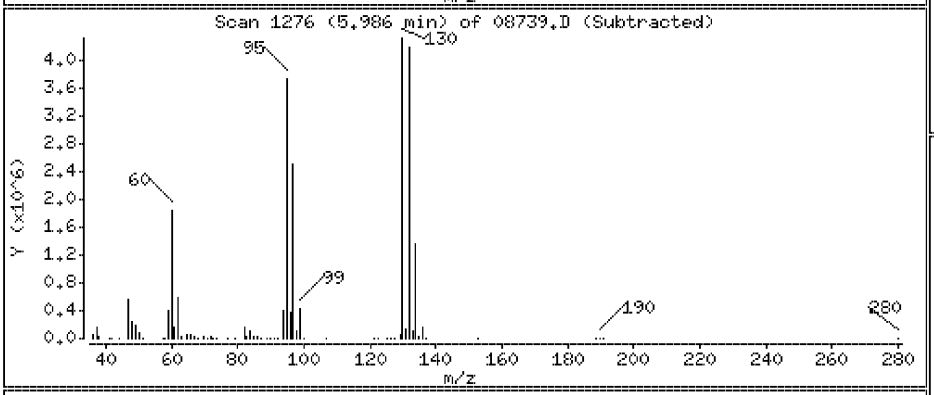
Column phase: J&W DB-5

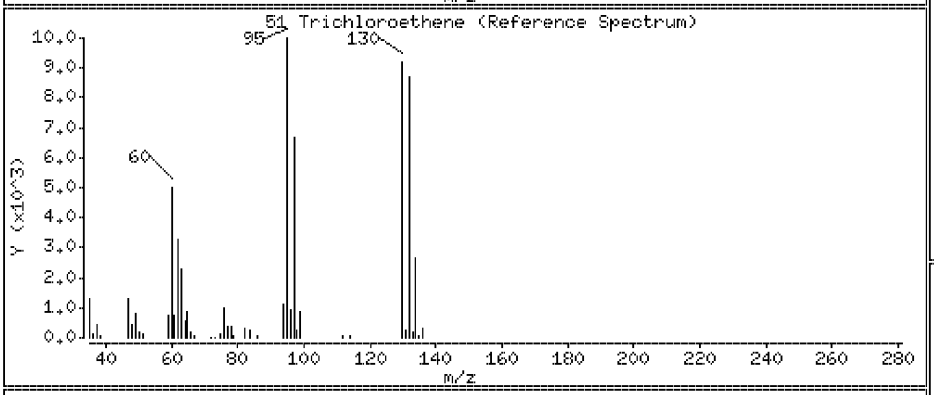
Column diameter: 0.32

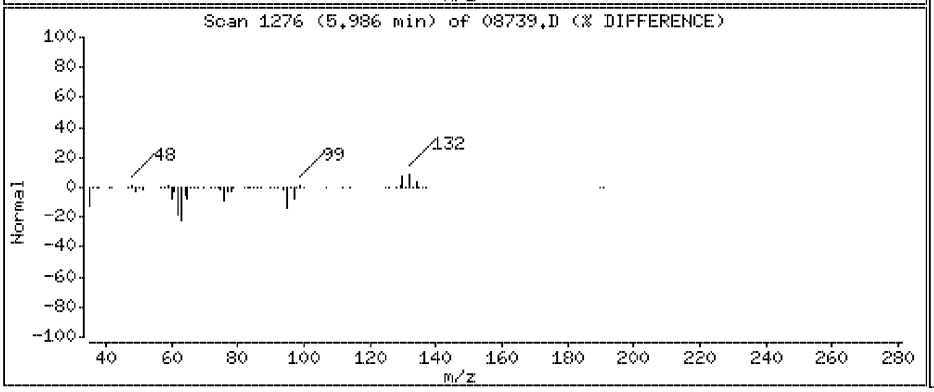
51 Trichloroethene

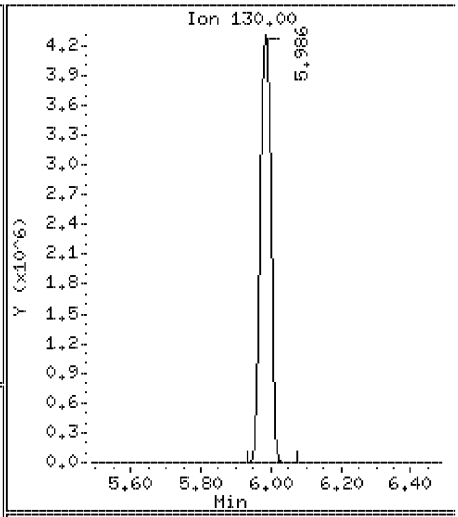
Concentration: 10100 ppbv

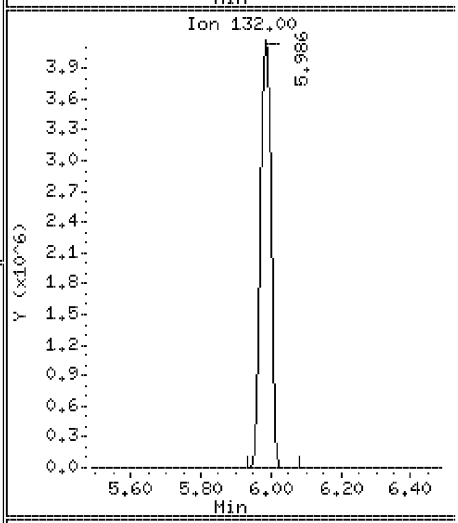


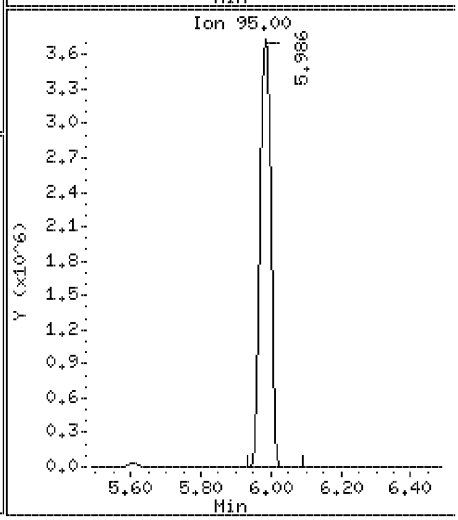












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D

Date : 29-MAR-2017 04:20

Client ID:

Instrument: 10airB.i

Sample Info:

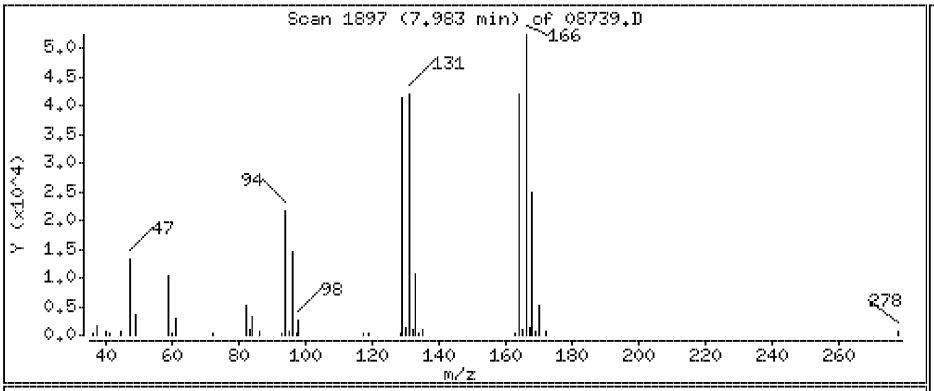
Operator: NCK

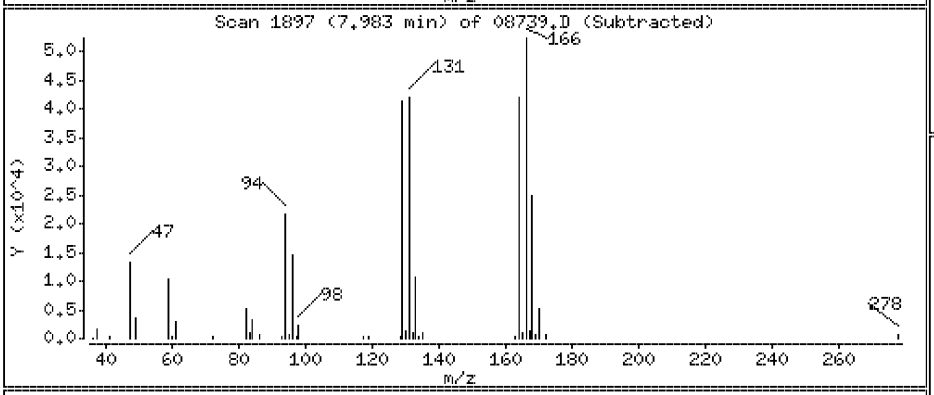
Column phase: J&W DB-5

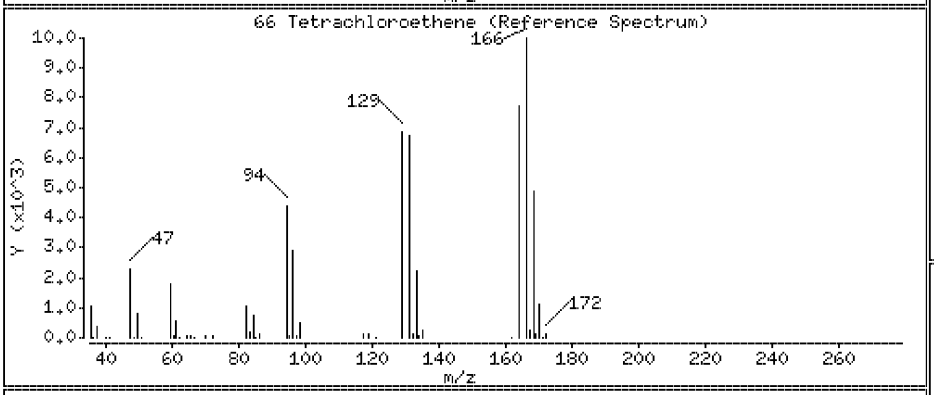
Column diameter: 0.32

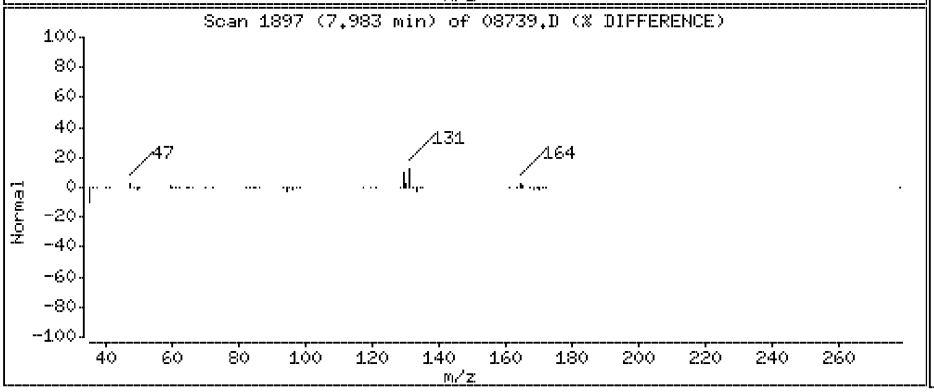
66 Tetrachloroethene

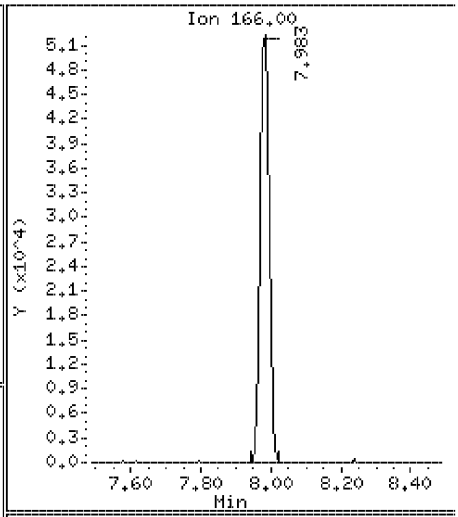
Concentration: 82.4 ppbv

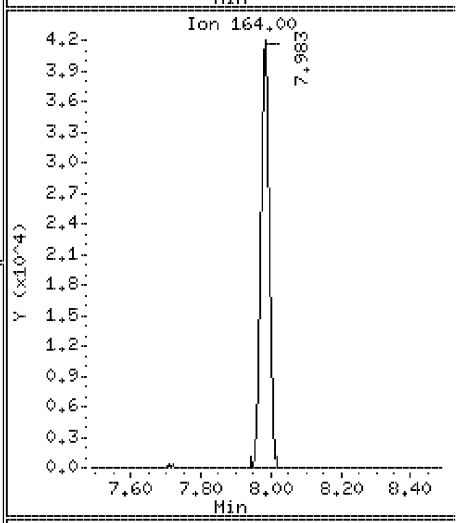


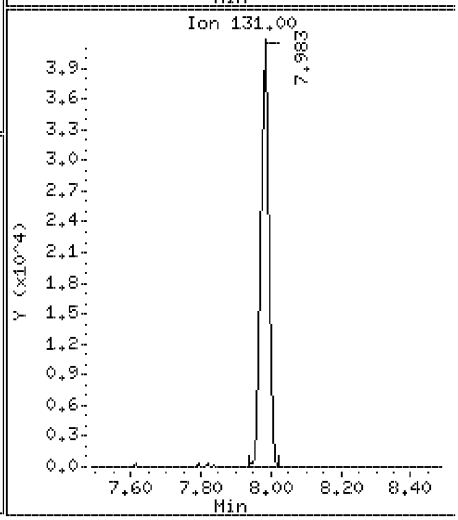












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08739.D

Date : 29-MAR-2017 04:20

Client ID:

Instrument: 10airB.i

Sample Info:

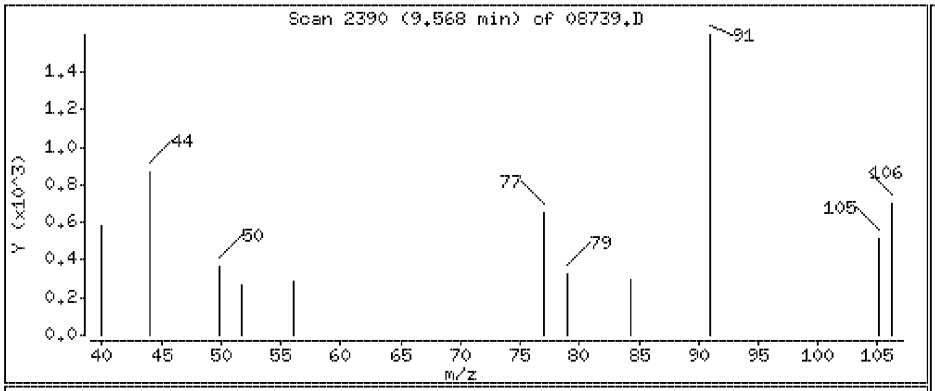
Operator: NCK

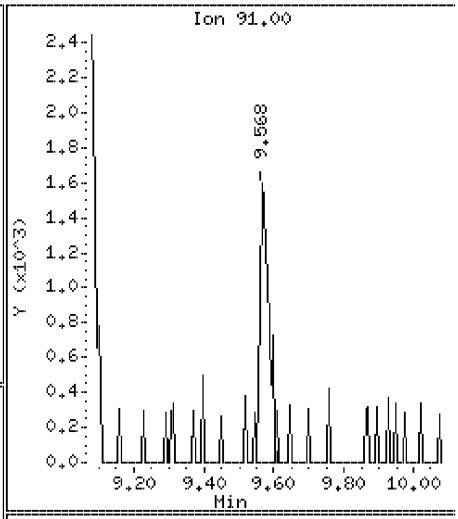
Column phase: J&W DB-5

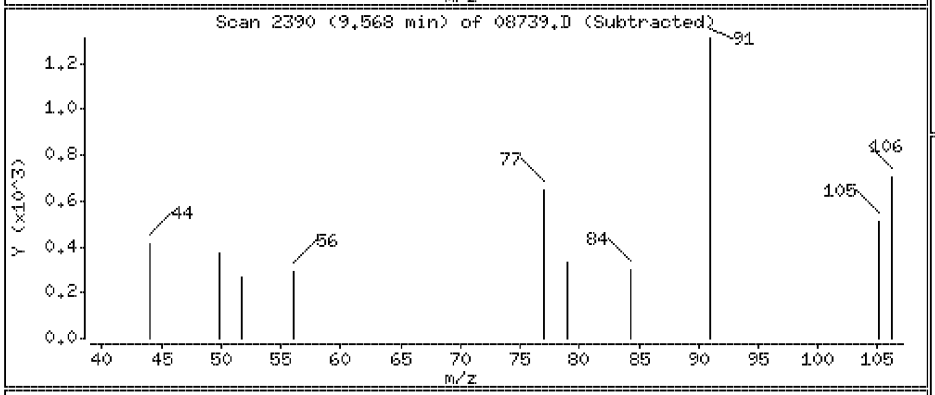
Column diameter: 0.32

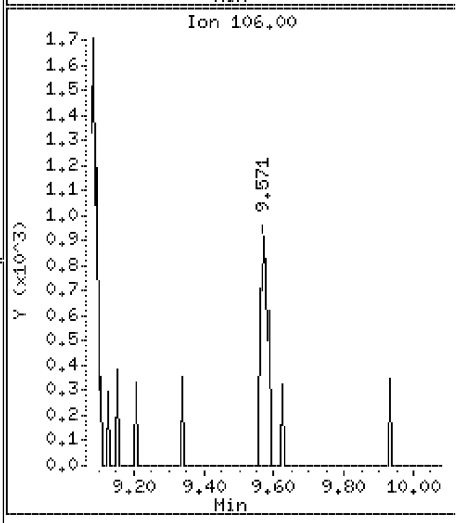
74 o-Xylene

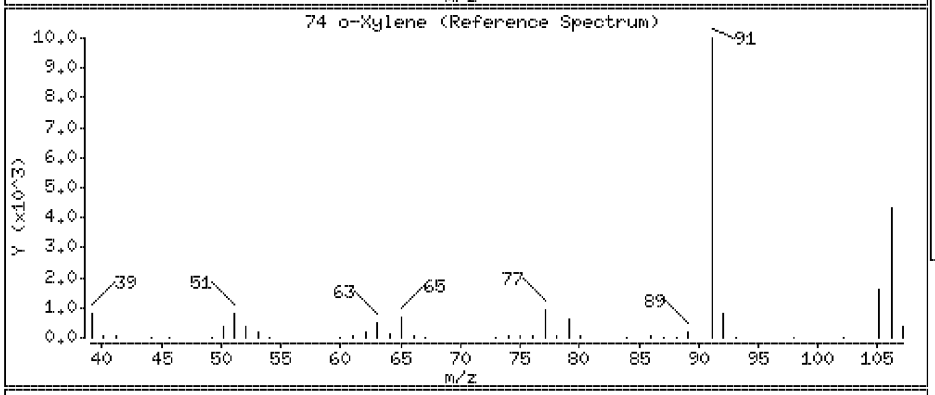
Concentration: 1.36 ppbv

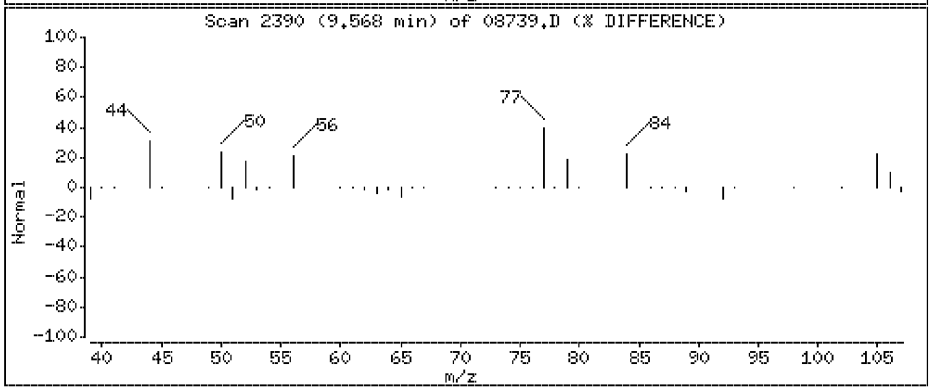












Data File: \\192.168.10.12\chem\10airB.i\032817.b/08739.D
Injection Date: 29-MAR-2017 04:20
Instrument: 10airB.i
Lab Sample ID: 10381335005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09124.D
Report Date: 03-Apr-2017 12:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040117.b\09124.D
Lab Smp Id: 10381335005
Inj Date : 01-APR-2017 19:21
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m
Meth Date : 03-Apr-2017 11:47 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 24
Dil Factor: 2060.80000
Integrator: HP RTE Compound Sublist: TCE.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2060.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$ 32 Hexane-d14(S)	66	4.484	4.484	(0.800)	734616	9.84053	9.84
* 47 1,4-Difluorobenzene	114	5.603	5.610	(1.000)	1978817	10.0000	
51 Trichloroethene	130	5.976	5.989	(1.067)	2191995	27.3108	56300
$ 59 Toluene-d8 (S)	98	7.070	7.076	(1.262)	1597801	9.63755	9.64
* 67 Chlorobenzene - d5	117	8.639	8.642	(1.000)	1094208	10.0000	
$ 85 1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	373413	7.55257	7.55

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09124.D
Report Date: 03-Apr-2017 12:59

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09124.D
Lab Smp Id: 10381335005
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m
Misc Info: 28028

Calibration Date: 01-APR-2017
Calibration Time: 07:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

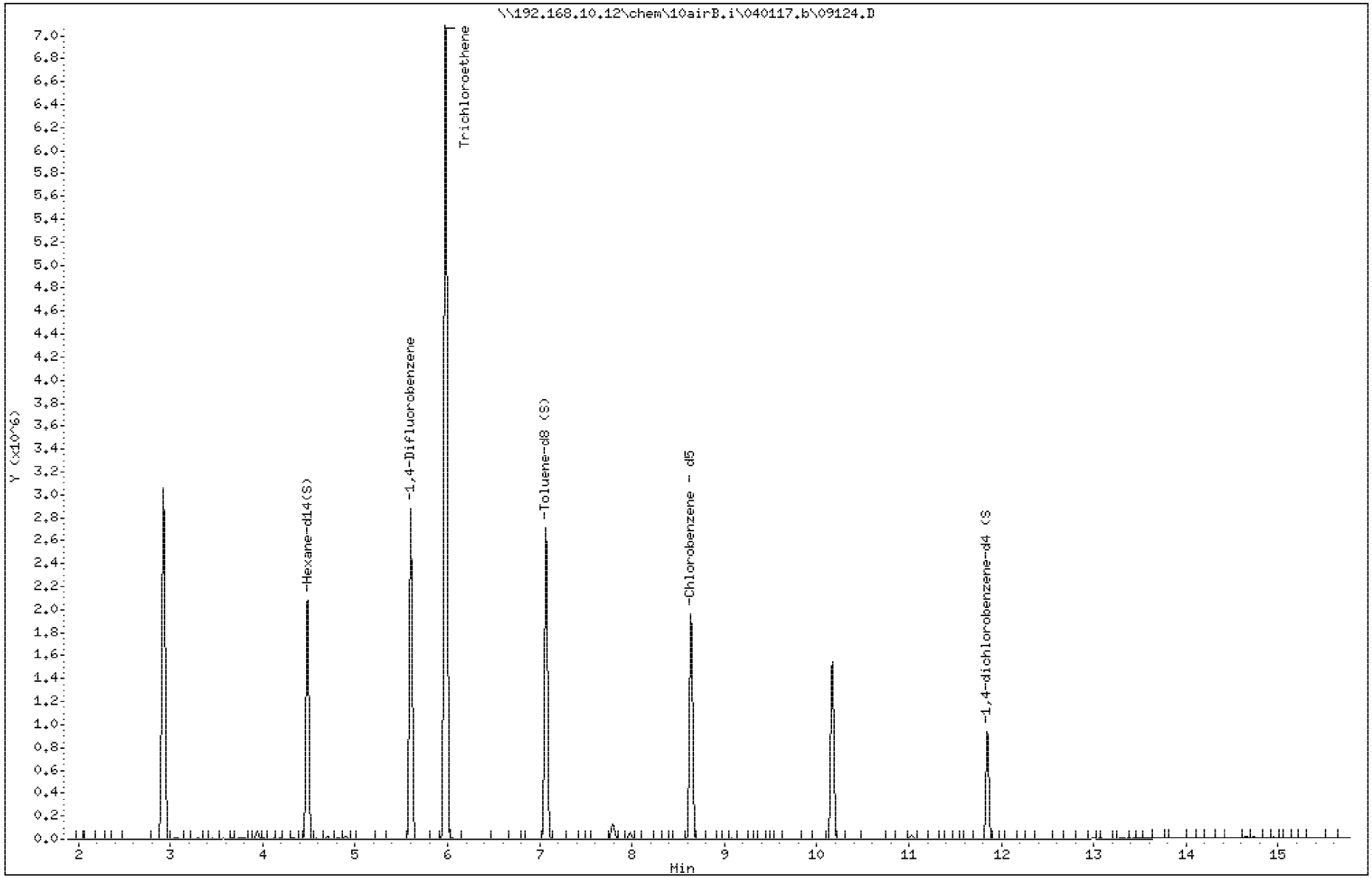
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1978817	2.17
67 Chlorobenzene - d	1173864	704318	1643410	1094208	-6.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.11
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09124.D
Date : 01-APR-2017 19:21
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040117.b\09124.D

Date : 01-APR-2017 19:21

Client ID:

Instrument: 10airB.i

Sample Info:

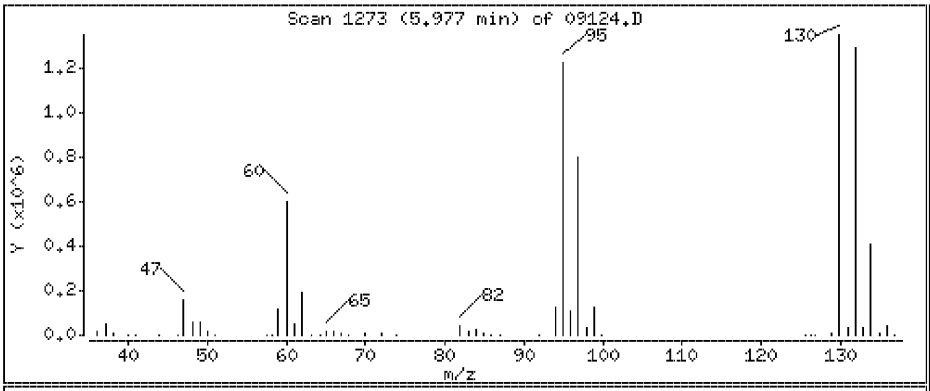
Operator: NCK

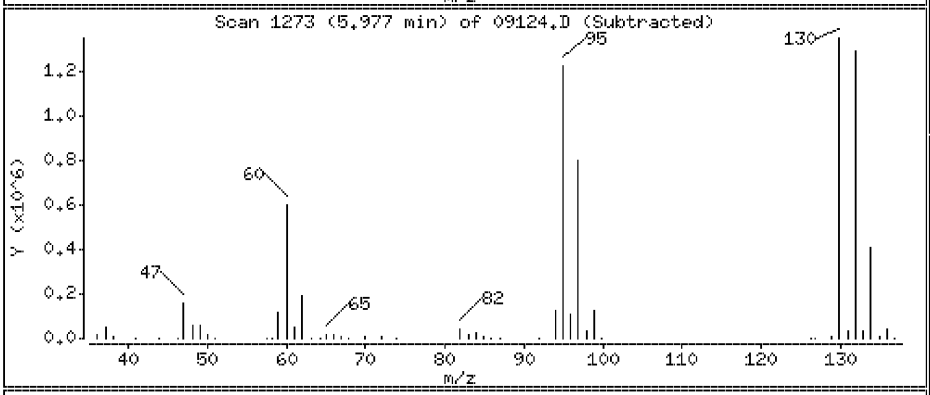
Column phase: J&W DB-5

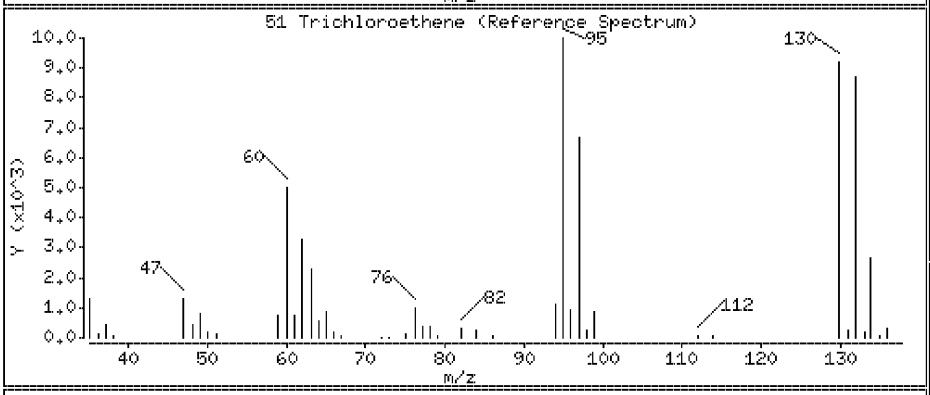
Column diameter: 0.32

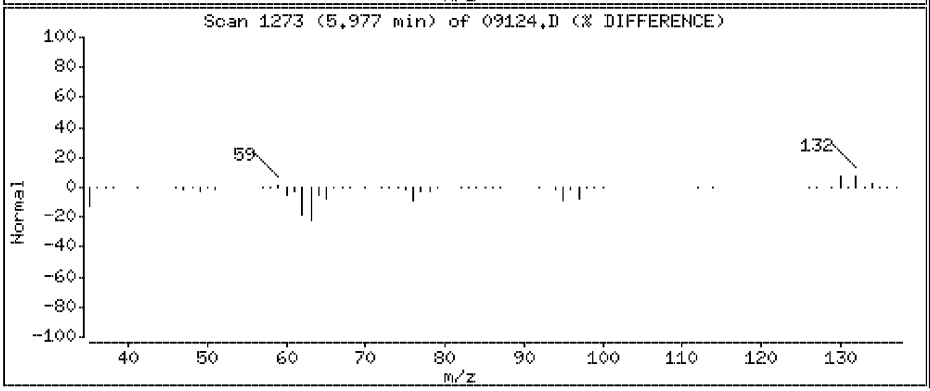
51 Trichloroethene

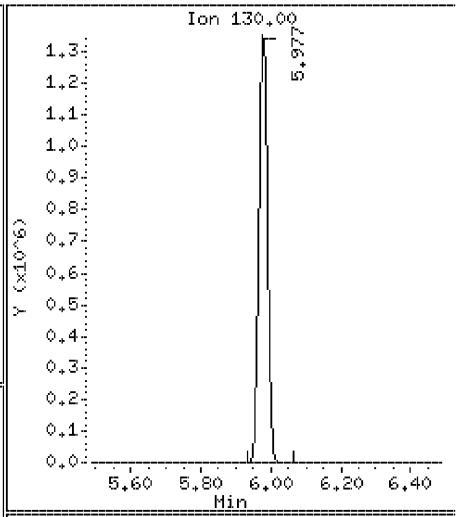
Concentration: 56300 ppbv

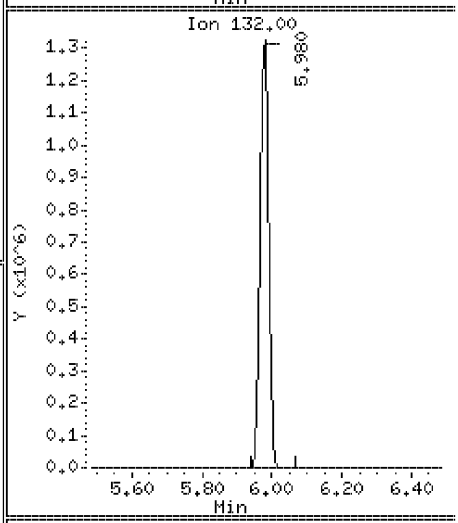


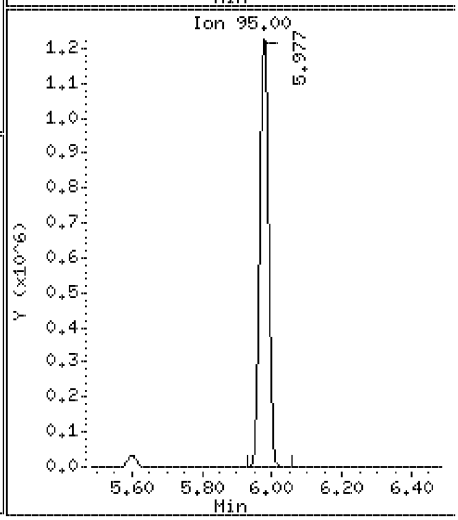












Data File: \\192.168.10.12\chem\10airB.i\040117.b/09124.D
Injection Date: 01-APR-2017 19:21
Instrument: 10airB.i
Lab Sample ID: 10381335005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_20_20170306 **Lab ID: 10381335005** Collected: 03/06/17 13:50 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Ethylbenzene	**<34.2**	ug/m3	70.8	34.2	80.5		03/29/17 04:20	100-41-4	
4-Ethyltoluene	**<15.1**	ug/m3	80.5	15.1	80.5		03/29/17 04:20	622-96-8	
Hexachloro-1,3-butadiene	**<52.3**	ug/m3	175	52.3	80.5		03/29/17 04:20	87-68-3	
n-Hexane	**<28.7**	ug/m3	58.0	28.7	80.5		03/29/17 04:20	110-54-3	
2-Hexanone	**<33.0**	ug/m3	335	33.0	80.5		03/29/17 04:20	591-78-6	
Isopropylbenzene (Cumene)	**<11.1**	ug/m3	201	11.1	80.5		03/29/17 04:20	98-82-8	
Methyl acetate	**<124**	ug/m3	124	124	80.5		03/29/17 04:20	79-20-9	
Methylcyclohexane	**<19.5**	ug/m3	65.7	19.5	80.5		03/29/17 04:20	108-87-2	
Methylene Chloride	**<43.6**	ug/m3	284	43.6	80.5		03/29/17 04:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<17.5**	ug/m3	335	17.5	80.5		03/29/17 04:20	108-10-1	
Methyl-tert-butyl ether	**<24.4**	ug/m3	295	24.4	80.5		03/29/17 04:20	1634-04-4	
2-Propanol	**<19.3**	ug/m3	201	19.3	80.5		03/29/17 04:20	67-63-0	
Styrene	**<15.5**	ug/m3	70.0	15.5	80.5		03/29/17 04:20	100-42-5	
1,1,2,2-Tetrachloroethane	**<26.5**	ug/m3	56.2	26.5	80.5		03/29/17 04:20	79-34-5	
Tetrachloroethene	**568**	ug/m3	55.5	22.4	80.5		03/29/17 04:20	127-18-4	
Toluene	**<12.4**	ug/m3	62.0	12.4	80.5		03/29/17 04:20	108-88-3	
1,2,4-Trichlorobenzene	**<73.2**	ug/m3	303	73.2	80.5		03/29/17 04:20	120-82-1	
1,1,1-Trichloroethane	**<19.9**	ug/m3	89.4	19.9	80.5		03/29/17 04:20	71-55-6	
1,1,2-Trichloroethane	**<19.8**	ug/m3	44.3	19.8	80.5		03/29/17 04:20	79-00-5	
Trichloroethene	**55300**	ug/m3	44.3	22.2	80.5		03/29/17 04:20	79-01-6	
Trichloroethene	**307000**	ug/m3	1130	569	2060.8		04/01/17 19:21	79-01-6	A3
Trichlorofluoromethane	**80.5J**	ug/m3	91.8	10.6	80.5		03/29/17 04:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1080**	ug/m3	129	24.2	80.5		03/29/17 04:20	76-13-1	
1,2,4-Trimethylbenzene	**<10.1**	ug/m3	80.4	10.1	80.5		03/29/17 04:20	95-63-6	
1,3,5-Trimethylbenzene	**<14.7**	ug/m3	80.4	14.7	80.5		03/29/17 04:20	108-67-8	
Vinyl chloride	**<15.7**	ug/m3	20.9	15.7	80.5		03/29/17 04:20	75-01-4	
m&p-Xylene	**<63.3**	ug/m3	142	63.3	80.5		03/29/17 04:20	179601-23-1	
o-Xylene	**<28.3**	ug/m3	70.8	28.3	80.5		03/29/17 04:20	95-47-6	

Sample: VP-107_33.5_20170306 **Lab ID: 10381335006** Collected: 03/06/17 13:41 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<26.8**	ug/m3	77.7	26.8	32.2		03/29/17 02:57	67-64-1	
Allyl chloride	**<7.3**	ug/m3	51.2	7.3	32.2		03/29/17 02:57	107-05-1	
Benzene	**<3.9**	ug/m3	10.5	3.9	32.2		03/29/17 02:57	71-43-2	
Bromodichloromethane	**<6.2**	ug/m3	43.8	6.2	32.2		03/29/17 02:57	75-27-4	
Bromoform	**<29.0**	ug/m3	67.7	29.0	32.2		03/29/17 02:57	75-25-2	
Bromomethane	**<10**	ug/m3	25.4	10	32.2		03/29/17 02:57	74-83-9	
1,3-Butadiene	**<5.7**	ug/m3	14.5	5.7	32.2		03/29/17 02:57	106-99-0	
2-Butanone (MEK)	**<7.3**	ug/m3	96.6	7.3	32.2		03/29/17 02:57	78-93-3	
Carbon disulfide	**<3.3**	ug/m3	20.3	3.3	32.2		03/29/17 02:57	75-15-0	
Carbon tetrachloride	**<6.2**	ug/m3	20.6	6.2	32.2		03/29/17 02:57	56-23-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_33.5_20170306 **Lab ID: 10381335006** Collected: 03/06/17 13:41 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Chlorobenzene	**<4.3**	ug/m3	30.3	4.3	32.2		03/29/17 02:57	108-90-7	
Chlorodifluoromethane	**174**	ug/m3	23.2	8.9	32.2		03/29/17 02:57	75-45-6	
Chloroethane	**<6.2**	ug/m3	17.4	6.2	32.2		03/29/17 02:57	75-00-3	
Chloroform	**157**	ug/m3	16.0	6.1	32.2		03/29/17 02:57	67-66-3	
Chloromethane	**<3.5**	ug/m3	13.5	3.5	32.2		03/29/17 02:57	74-87-3	
Chloropentafluoroethane	**<103**	ug/m3	103	103	32.2		03/29/17 02:57	76-15-3	
Cyclohexane	**<10.2**	ug/m3	22.5	10.2	32.2		03/29/17 02:57	110-82-7	
1,2-Dibromo-3-chloropropane	**<158**	ug/m3	158	158	32.2		03/29/17 02:57	96-12-8	
Dibromochloromethane	**<27.6**	ug/m3	55.7	27.6	32.2		03/29/17 02:57	124-48-1	
1,2-Dibromoethane (EDB)	**<24.9**	ug/m3	50.2	24.9	32.2		03/29/17 02:57	106-93-4	
1,2-Dichlorobenzene	**<16.5**	ug/m3	39.3	16.5	32.2		03/29/17 02:57	95-50-1	
1,3-Dichlorobenzene	**<17.1**	ug/m3	39.3	17.1	32.2		03/29/17 02:57	541-73-1	
1,4-Dichlorobenzene	**<16.1**	ug/m3	39.3	16.1	32.2		03/29/17 02:57	106-46-7	
Dichlorodifluoromethane	**<15.5**	ug/m3	32.5	15.5	32.2		03/29/17 02:57	75-71-8	
1,1-Dichloroethane	**<5.1**	ug/m3	26.4	5.1	32.2		03/29/17 02:57	75-34-3	
1,2-Dichloroethane	**<6.6**	ug/m3	13.2	6.6	32.2		03/29/17 02:57	107-06-2	
1,1-Dichloroethene	**25.0J**	ug/m3	26.1	7.7	32.2		03/29/17 02:57	75-35-4	
cis-1,2-Dichloroethene	**605**	ug/m3	26.1	7.9	32.2		03/29/17 02:57	156-59-2	
trans-1,2-Dichloroethene	**51.3**	ug/m3	26.1	12.4	32.2		03/29/17 02:57	156-60-5	
1,2-Dichloropropane	**<8.7**	ug/m3	30.3	8.7	32.2		03/29/17 02:57	78-87-5	
cis-1,3-Dichloropropene	**<11.9**	ug/m3	29.6	11.9	32.2		03/29/17 02:57	10061-01-5	
trans-1,3-Dichloropropene	**<8.4**	ug/m3	74.3	8.4	32.2		03/29/17 02:57	10061-02-6	
Dichlorotetrafluoroethane	**<10**	ug/m3	45.7	10	32.2		03/29/17 02:57	76-14-2	
Freon 123	**<102**	ug/m3	102	102	32.2		03/29/17 02:57	306-83-2	
1,4-Dioxane (p-Dioxane)	**<11.3**	ug/m3	118	11.3	32.2		03/29/17 02:57	123-91-1	
Ethylbenzene	**<13.7**	ug/m3	28.3	13.7	32.2		03/29/17 02:57	100-41-4	
4-Ethyltoluene	**<6.1**	ug/m3	32.2	6.1	32.2		03/29/17 02:57	622-96-8	
Hexachloro-1,3-butadiene	**<20.9**	ug/m3	69.8	20.9	32.2		03/29/17 02:57	87-68-3	
n-Hexane	**<11.5**	ug/m3	23.2	11.5	32.2		03/29/17 02:57	110-54-3	
2-Hexanone	**<13.2**	ug/m3	134	13.2	32.2		03/29/17 02:57	591-78-6	
Isopropylbenzene (Cumene)	**<4.4**	ug/m3	80.5	4.4	32.2		03/29/17 02:57	98-82-8	
Methyl acetate	**<49.6**	ug/m3	49.6	49.6	32.2		03/29/17 02:57	79-20-9	
Methylcyclohexane	**<7.8**	ug/m3	26.3	7.8	32.2		03/29/17 02:57	108-87-2	
Methylene Chloride	**<17.5**	ug/m3	114	17.5	32.2		03/29/17 02:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<7.0**	ug/m3	134	7.0	32.2		03/29/17 02:57	108-10-1	
Methyl-tert-butyl ether	**<9.8**	ug/m3	118	9.8	32.2		03/29/17 02:57	1634-04-4	
2-Propanol	**<7.7**	ug/m3	80.5	7.7	32.2		03/29/17 02:57	67-63-0	
Styrene	**<6.2**	ug/m3	28.0	6.2	32.2		03/29/17 02:57	100-42-5	
1,1,2,2-Tetrachloroethane	**<10.6**	ug/m3	22.5	10.6	32.2		03/29/17 02:57	79-34-5	
Tetrachloroethene	**1360**	ug/m3	22.2	9.0	32.2		03/29/17 02:57	127-18-4	
Toluene	**21.8J**	ug/m3	24.8	5.0	32.2		03/29/17 02:57	108-88-3	
1,2,4-Trichlorobenzene	**<29.3**	ug/m3	121	29.3	32.2		03/29/17 02:57	120-82-1	
1,1,1-Trichloroethane	**<8.0**	ug/m3	35.7	8.0	32.2		03/29/17 02:57	71-55-6	
1,1,2-Trichloroethane	**119**	ug/m3	17.7	7.9	32.2		03/29/17 02:57	79-00-5	
Trichloroethene	**49700**	ug/m3	17.7	8.9	32.2		03/29/17 02:57	79-01-6	
Trichloroethene	**535000**	ug/m3	2270	1140	4121.6		04/01/17 19:50	79-01-6	A3

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D
Report Date: 03-Apr-2017 15:15

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08736.D
Lab Smp Id: 10381335006
Inj Date : 29-MAR-2017 02:57
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 36
Dil Factor: 32.20000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	32.200	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.005	2.996	(0.535)	17047	1.49939	48.3(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.639	3.658	(0.648)	39835	0.46522	15.0	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.873	3.896	(0.690)	11607	0.19255	6.20	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.918	3.938	(0.698)	209766	3.05074	98.2	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D
Report Date: 03-Apr-2017 15:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.237	4.269	(0.755)	13290	0.39536	12.7	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.471	4.478	(0.797)	806532	9.67505	9.68	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.690	4.722	(0.836)	171880	4.66297	150(QH)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.803	4.838	(0.856)	71841	0.98250	31.6	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.613	5.610	(1.000)	2222222	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.996	5.986	(1.068)	18992600	282.344	9090(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.079	7.073	(1.261)	1810488	9.66397	9.66	
	60 1,1,2-Trichloroethane	97	7.140	7.143	(1.272)	35753	0.66878	21.5	
	61 Toluene	91	7.153	7.150	(1.274)	27537	0.17655	5.68	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.989	7.986	(0.924)	535953	6.12189	197	
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	1336756	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D
Report Date: 03-Apr-2017 15:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	484895	7.64117	7.64	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D
Report Date: 03-Apr-2017 15:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08736.D
Lab Smp Id: 10381335006
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

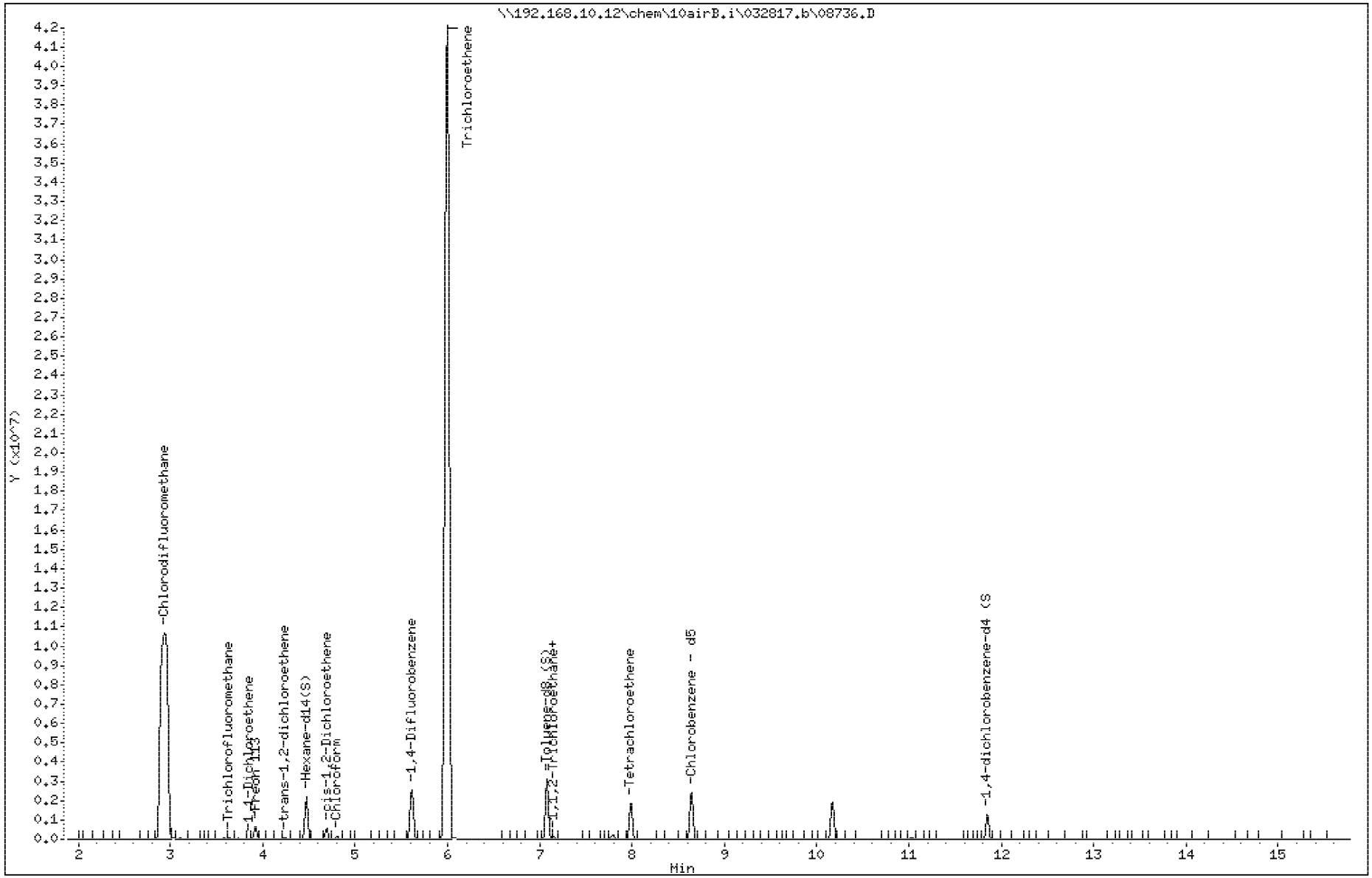
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2222222	-21.52
67 Chlorobenzene - d	1804482	1082689	2526275	1336756	-25.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D
Date : 29-MAR-2017 02:57
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

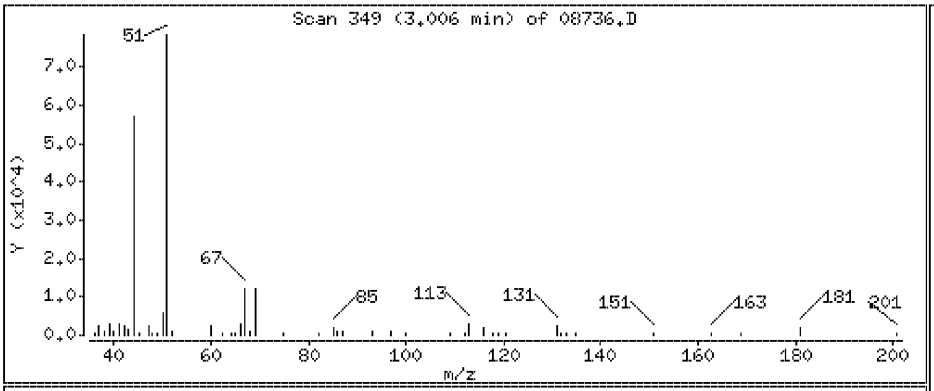
Operator: NCK

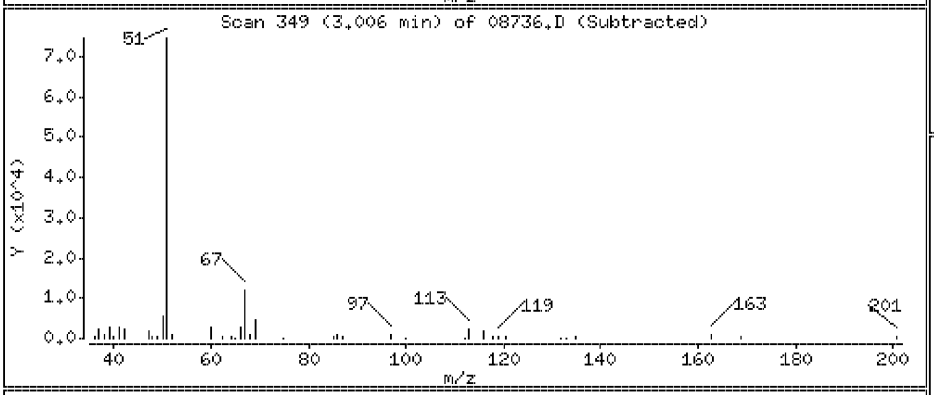
Column phase: J&W DB-5

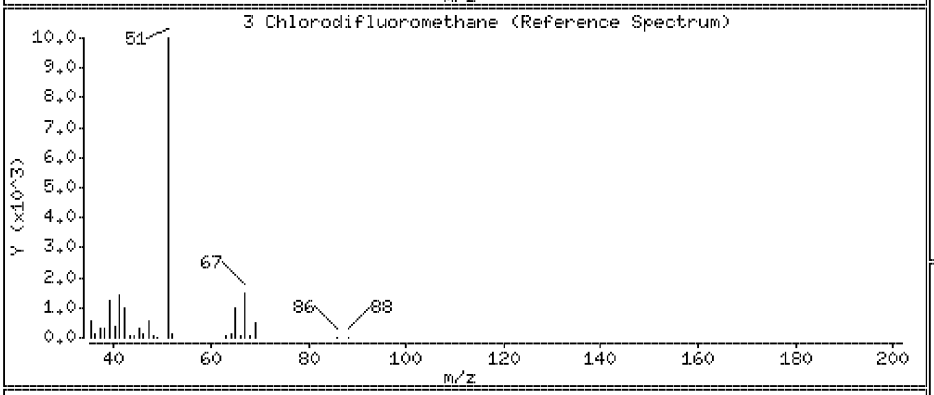
Column diameter: 0.32

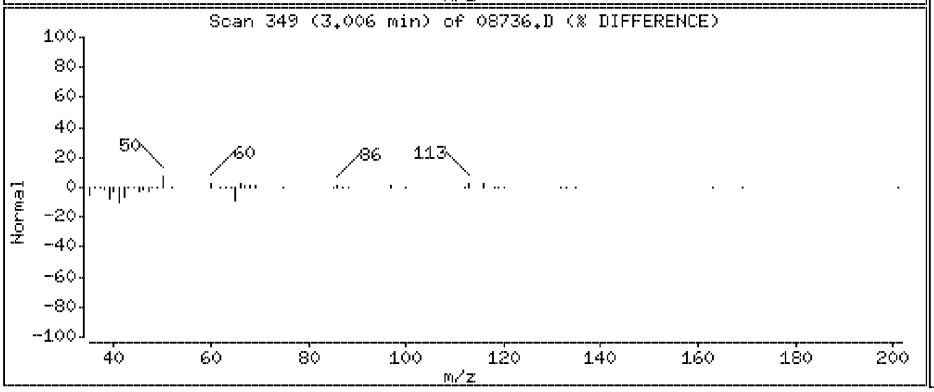
3 Chlorodifluoromethane

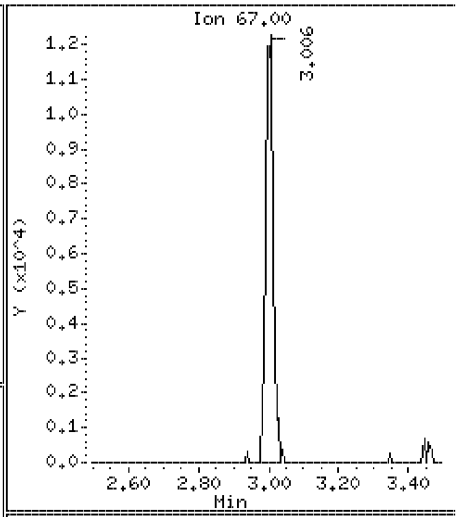
Concentration: 48.3 ppbv

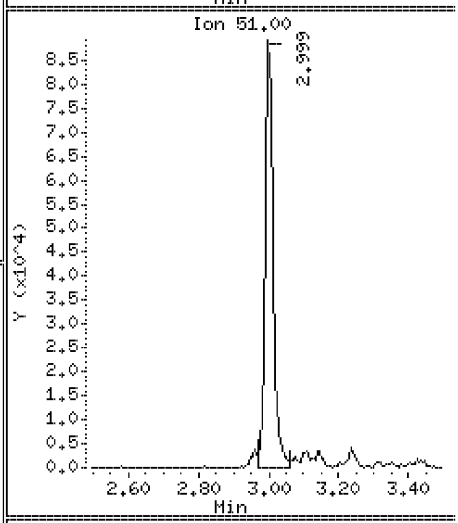


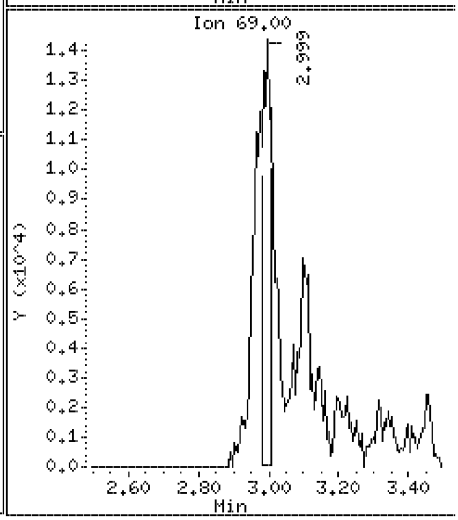












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

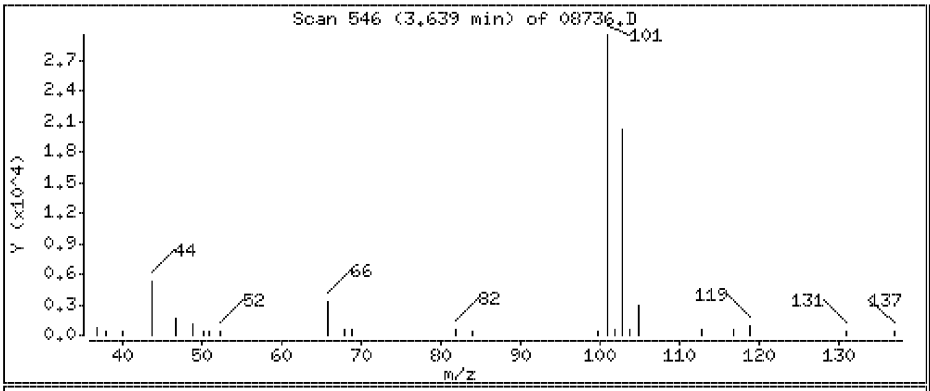
Operator: NCK

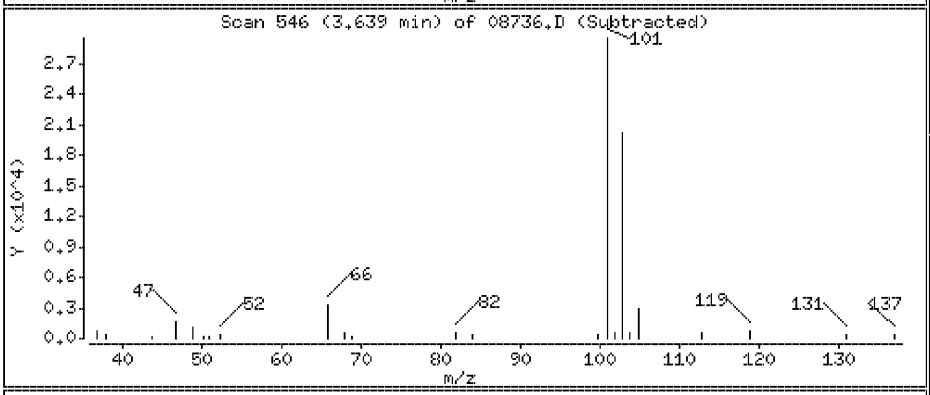
Column phase: J&W DB-5

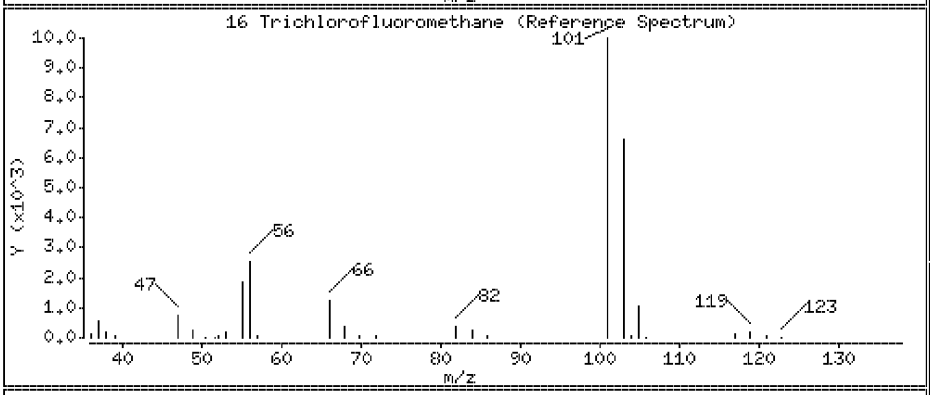
Column diameter: 0.32

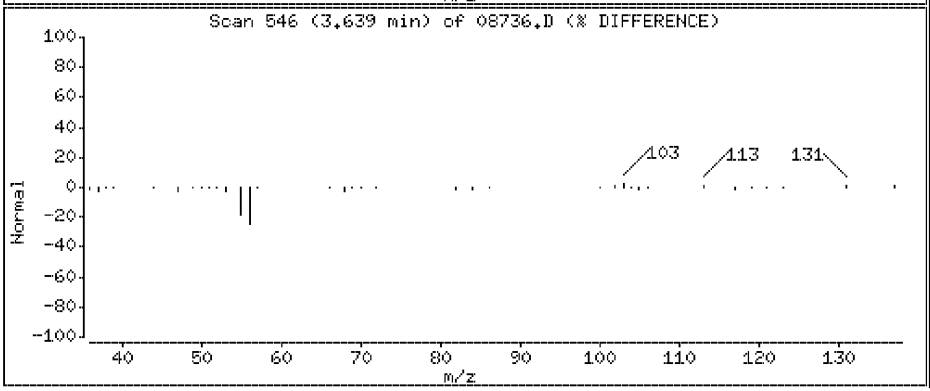
16 Trichlorofluoromethane

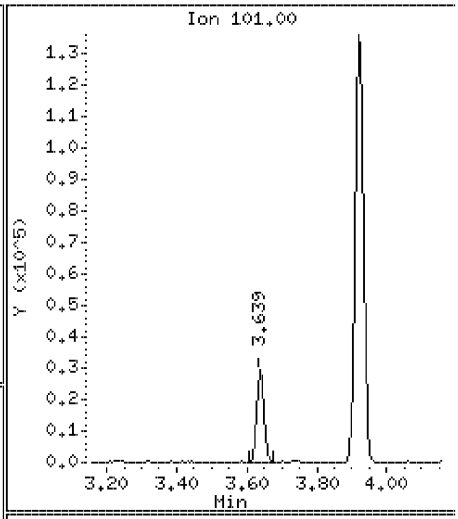
Concentration: 15.0 ppbv

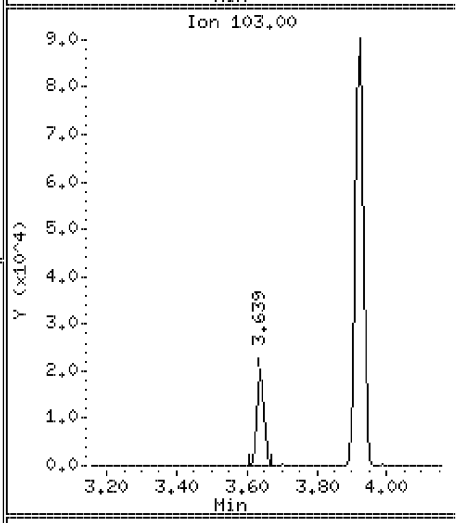


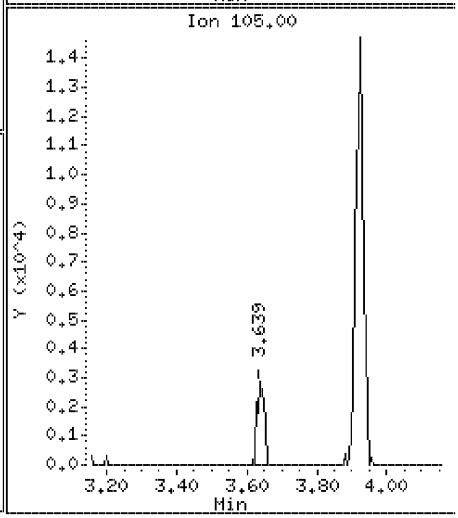












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

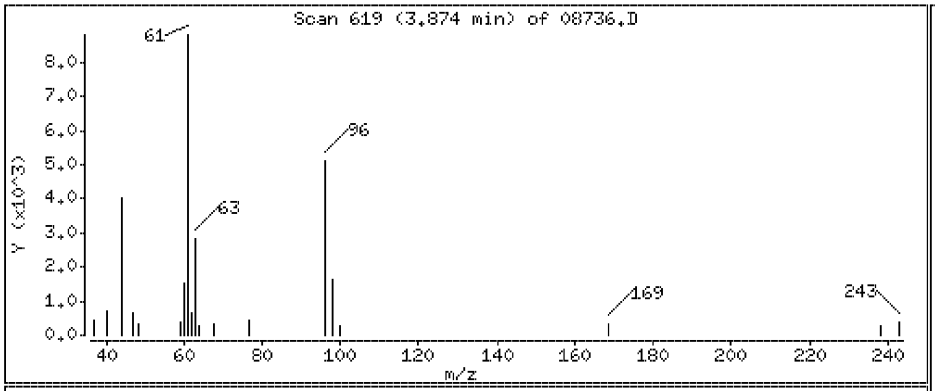
Operator: NCK

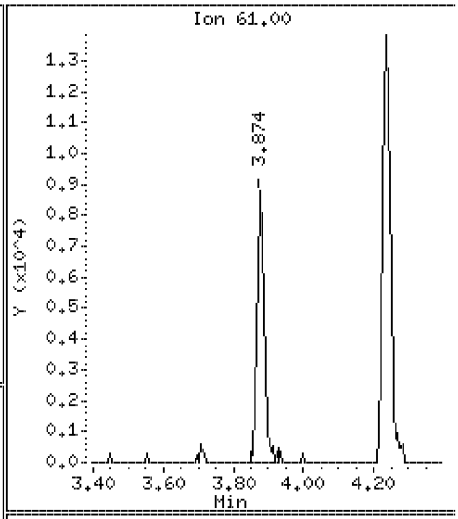
Column phase: J&W DB-5

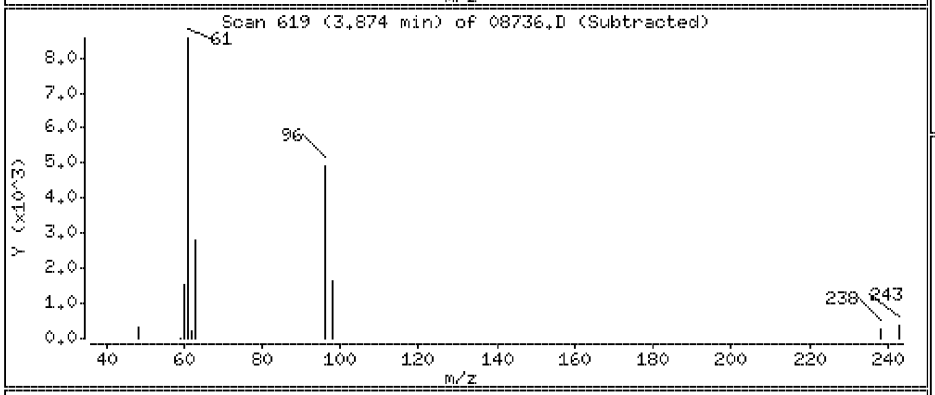
Column diameter: 0.32

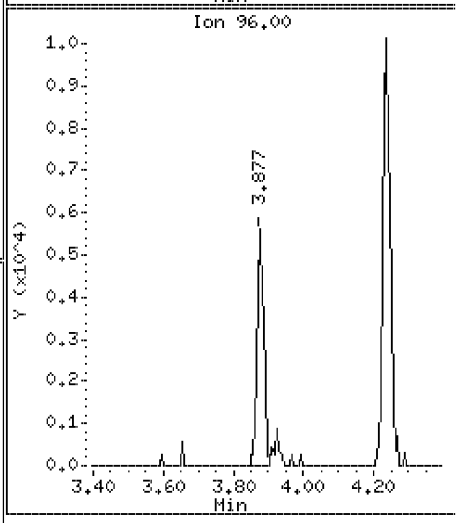
20 1,1-Dichloroethene

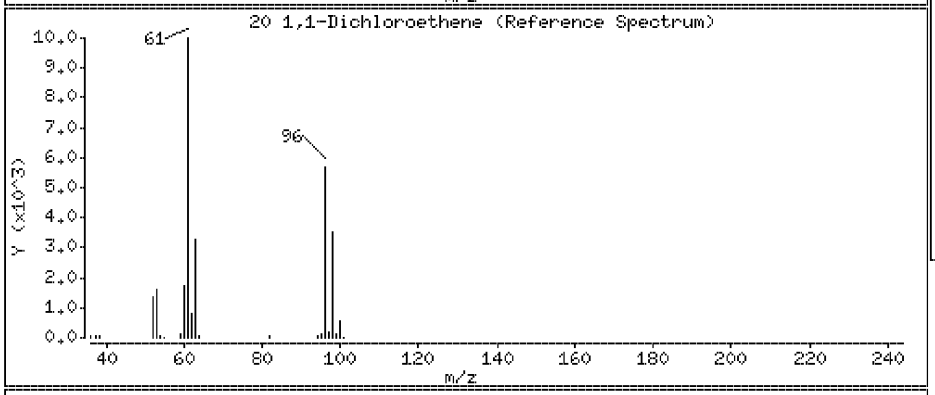
Concentration: 6.20 ppbv

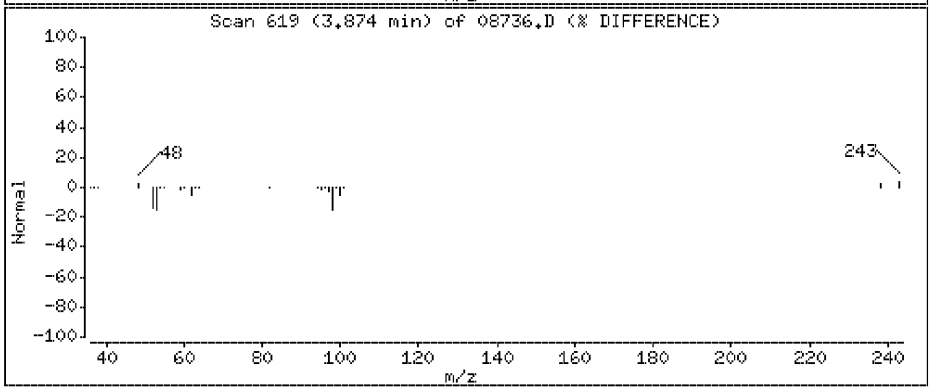












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

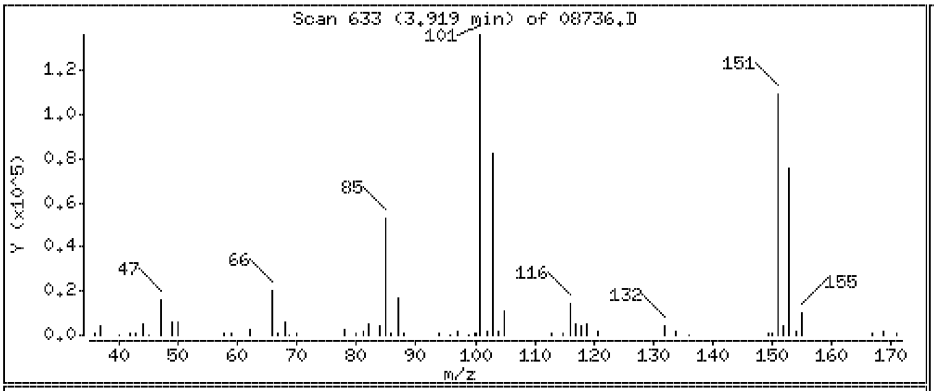
Operator: NCK

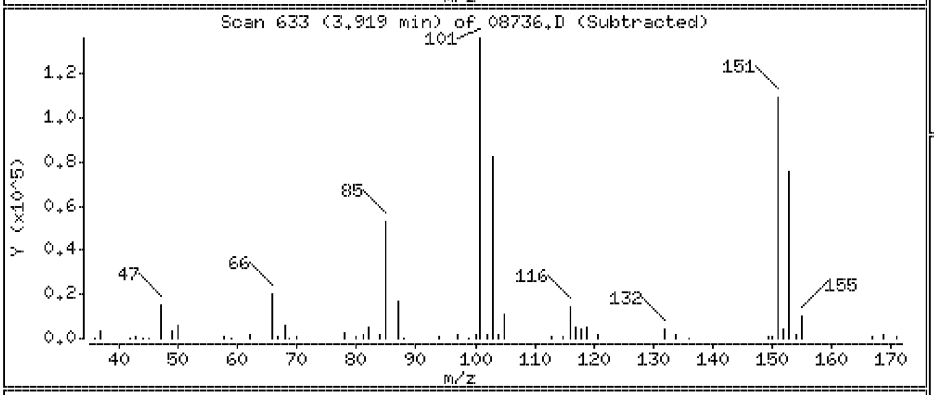
Column phase: J&W DB-5

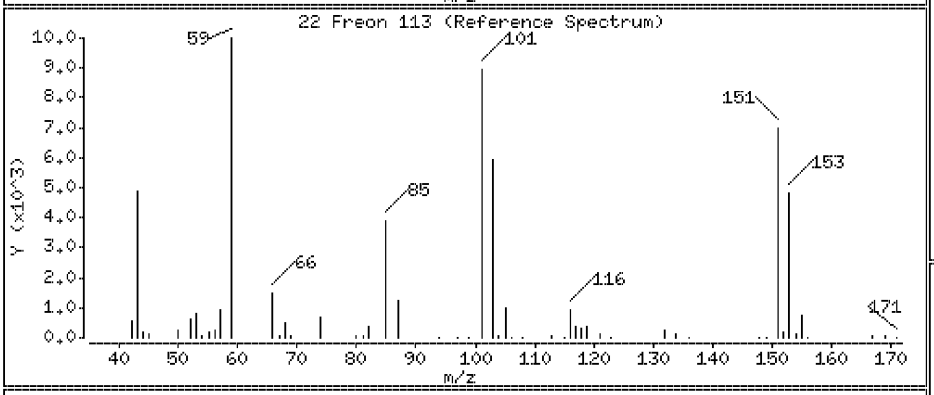
Column diameter: 0.32

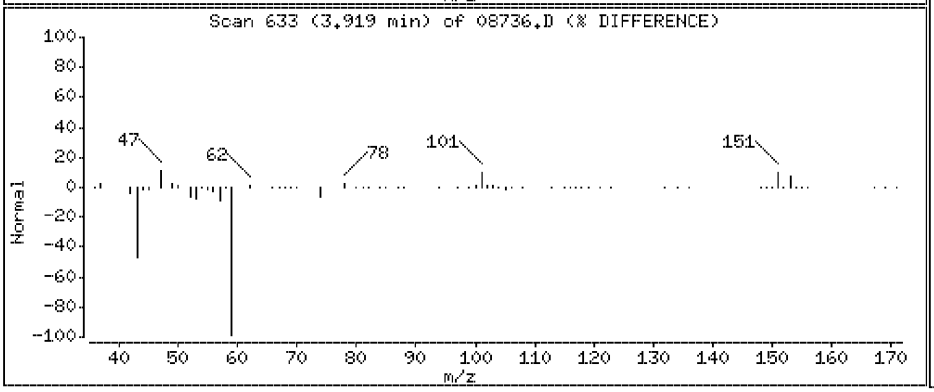
22 Freon 113

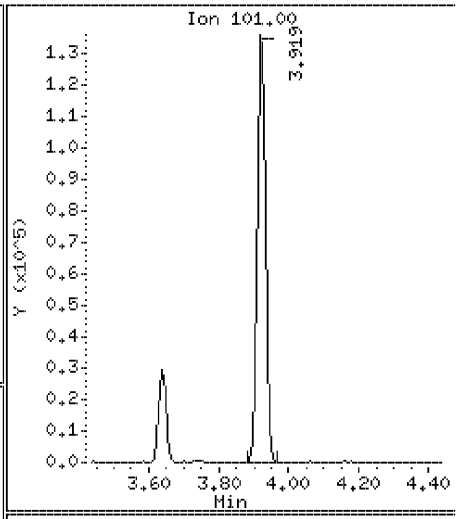
Concentration: 98.2 ppbv

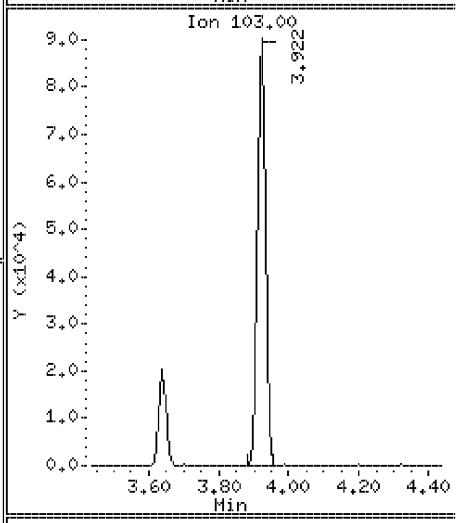


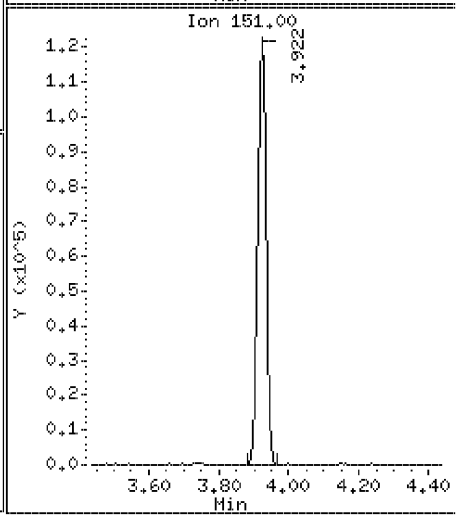












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

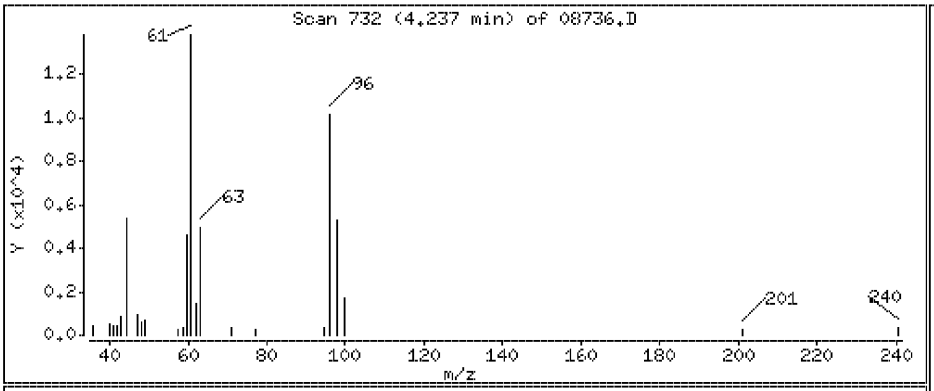
Operator: NCK

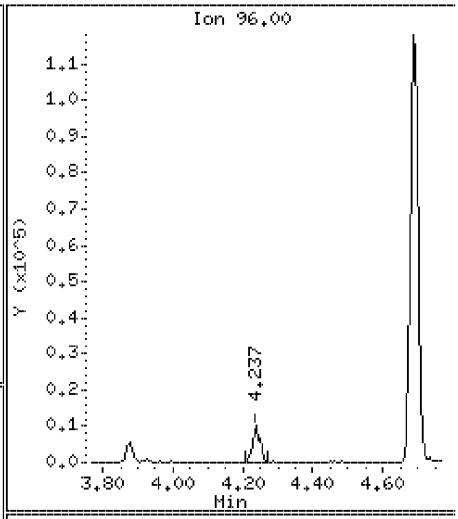
Column phase: J&W DB-5

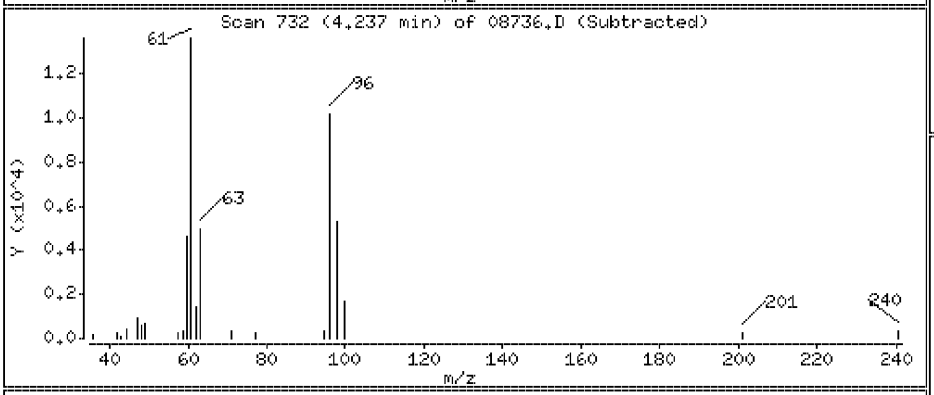
Column diameter: 0.32

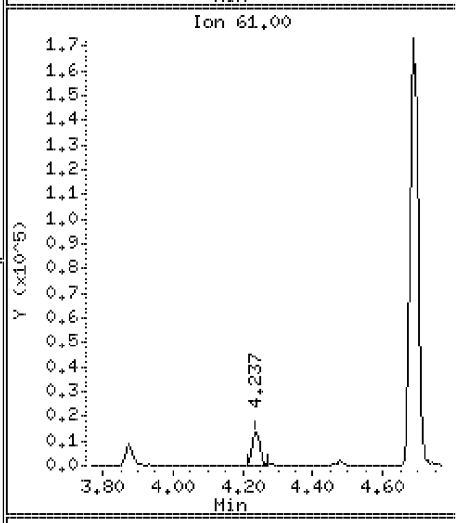
28 trans-1,2-dichloroethene

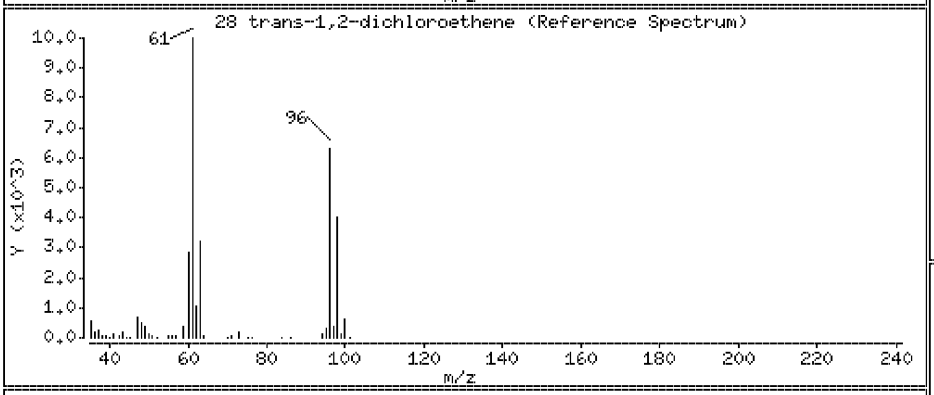
Concentration: 12.7 ppbv

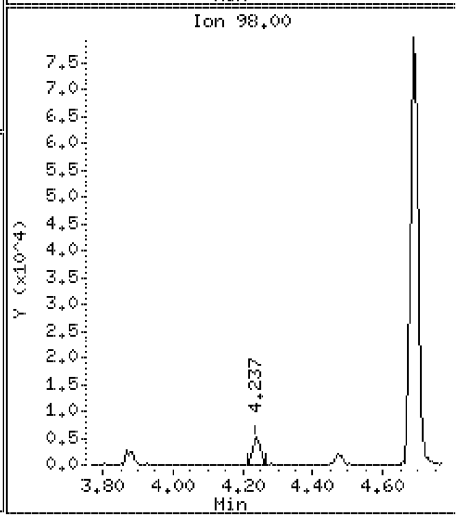


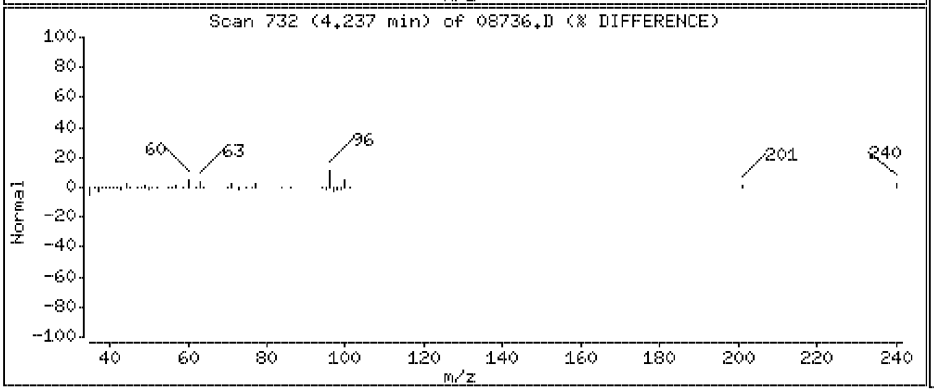












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

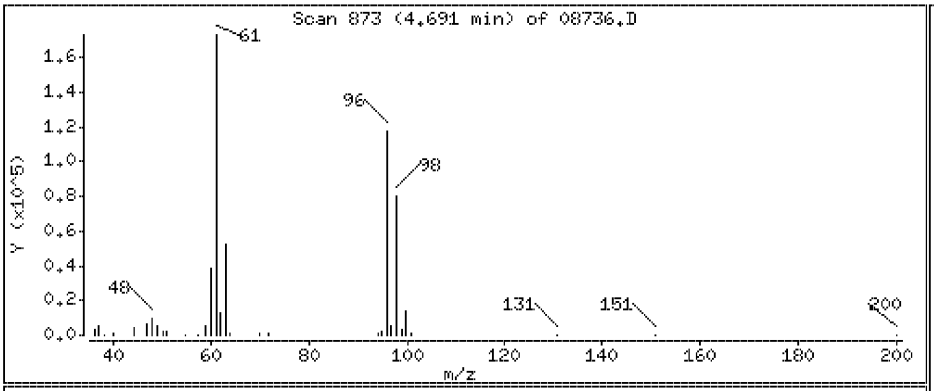
Operator: NCK

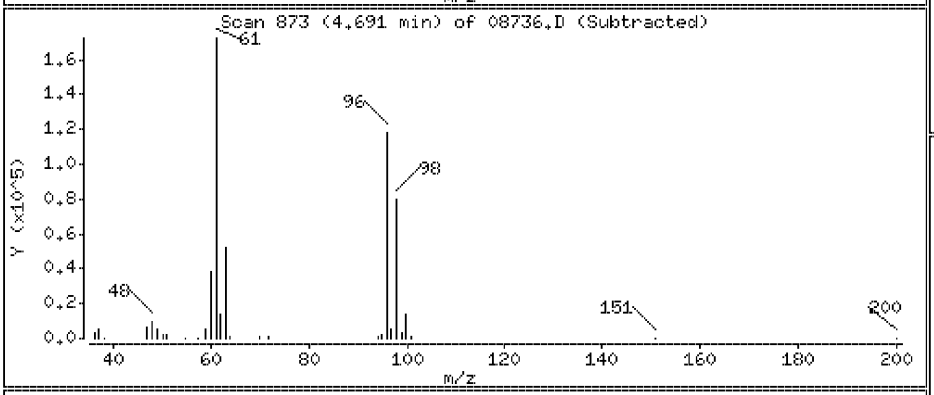
Column phase: J&W DB-5

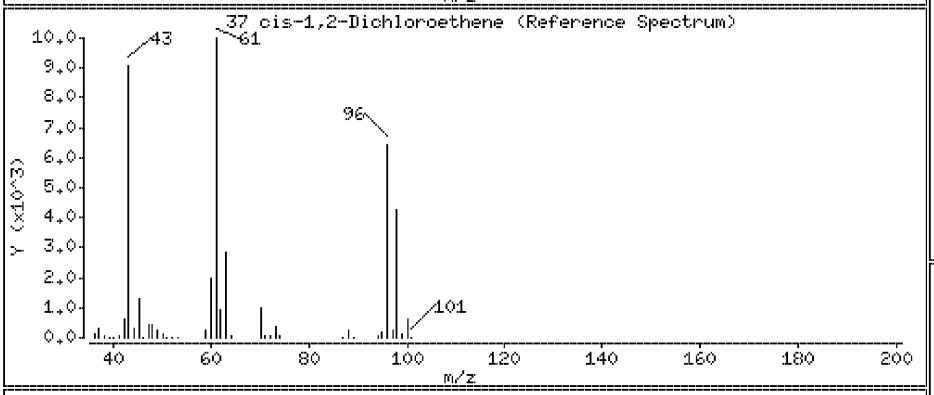
Column diameter: 0.32

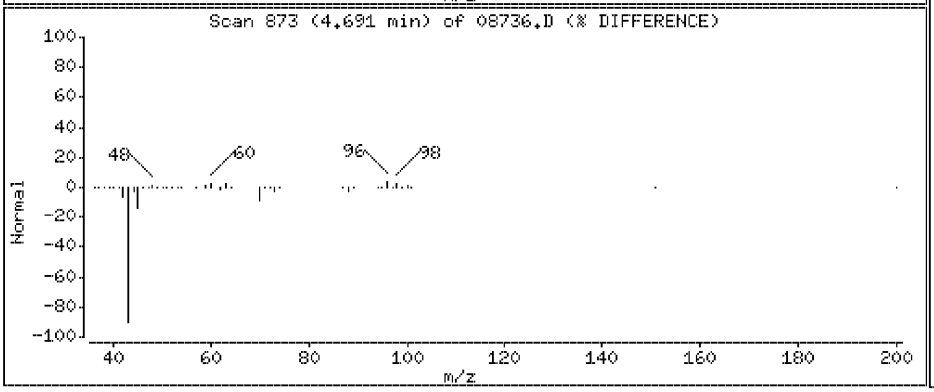
37 cis-1,2-Dichloroethene

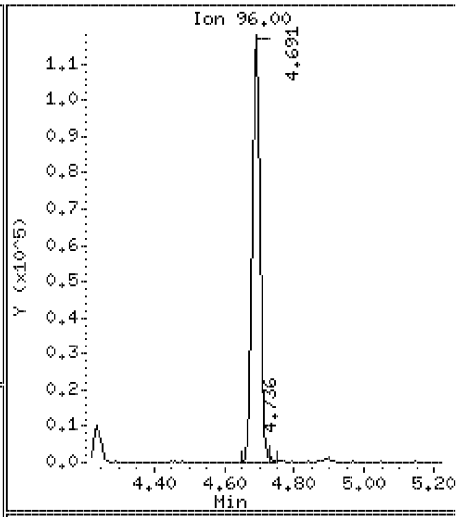
Concentration: 150 ppbv

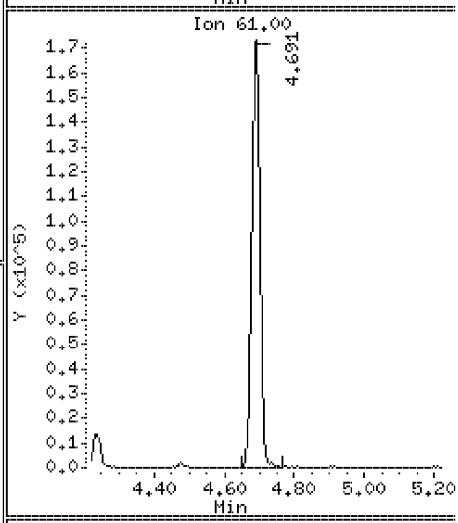


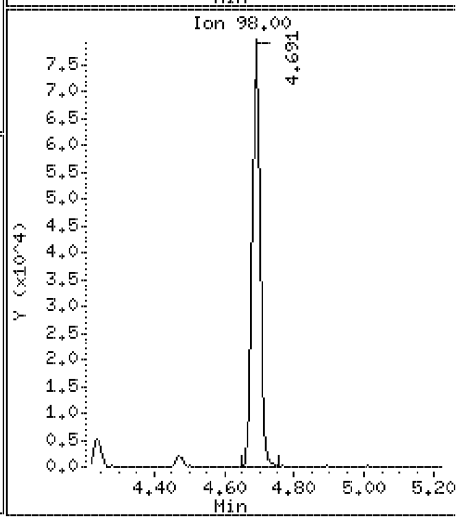












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

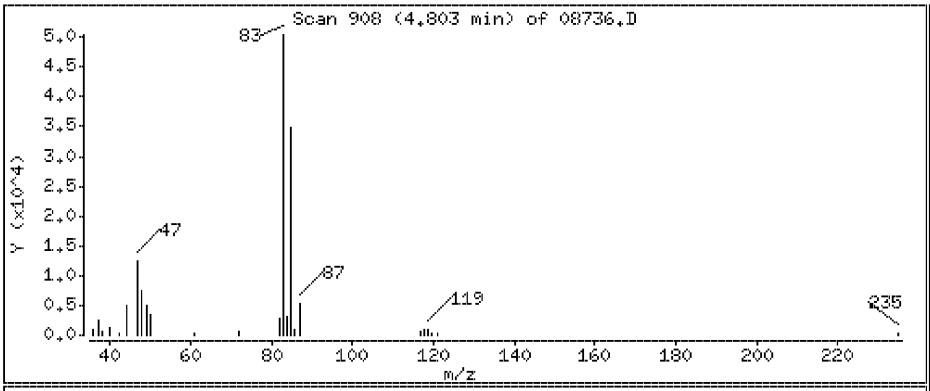
Operator: NCK

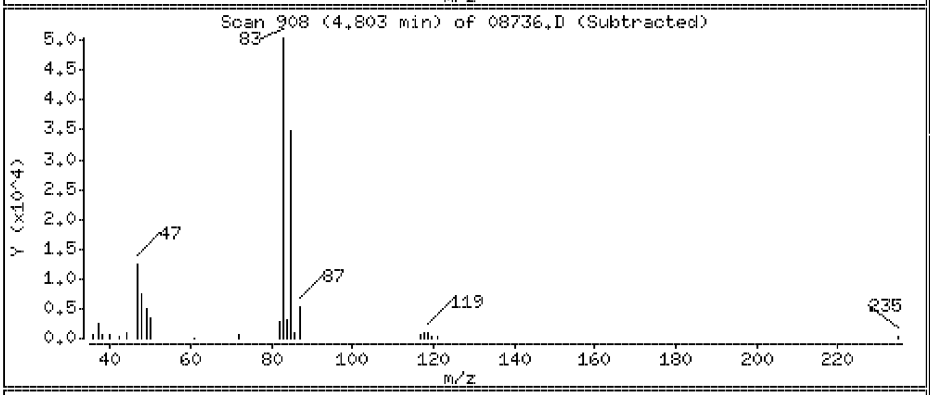
Column phase: J&W DB-5

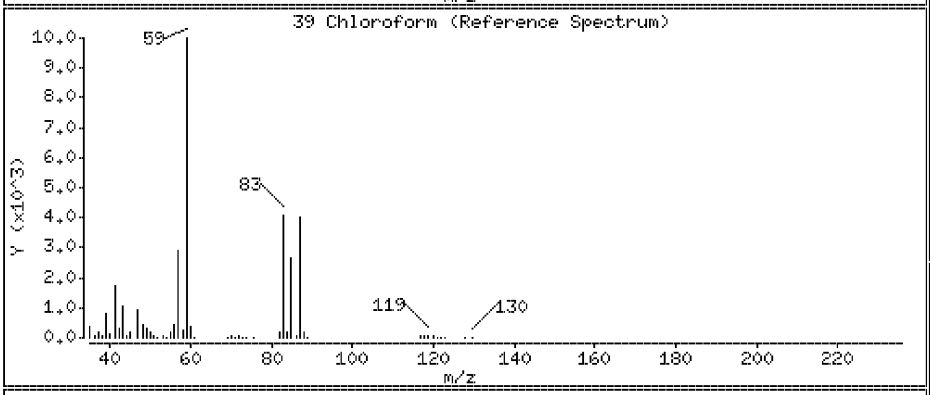
Column diameter: 0.32

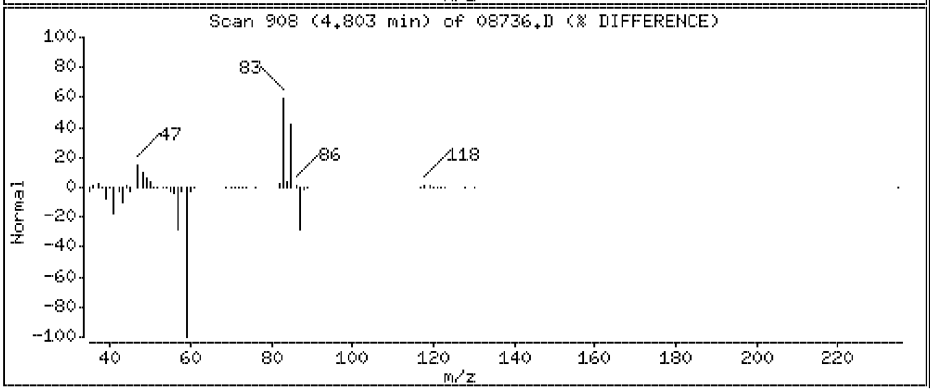
39 Chloroform

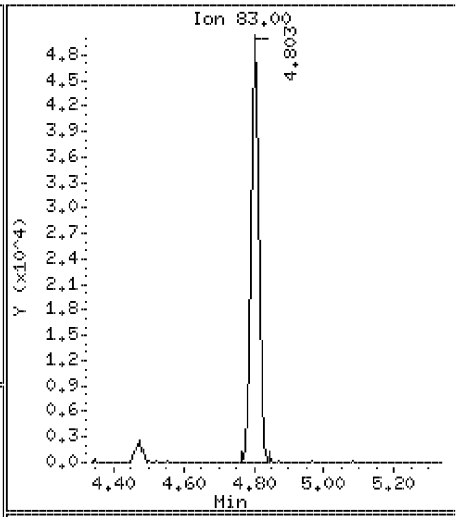
Concentration: 31.6 ppbv

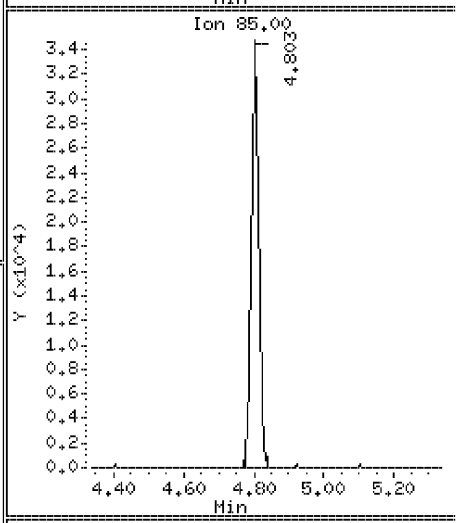


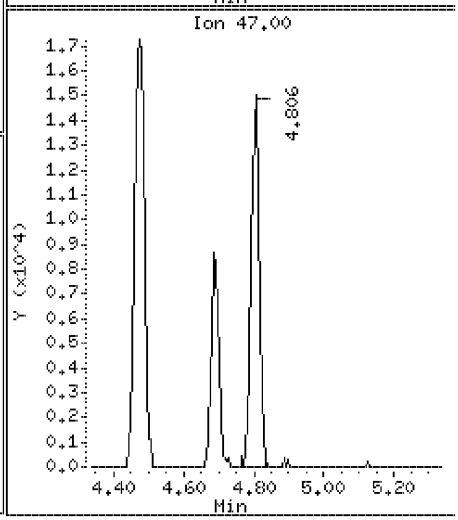












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

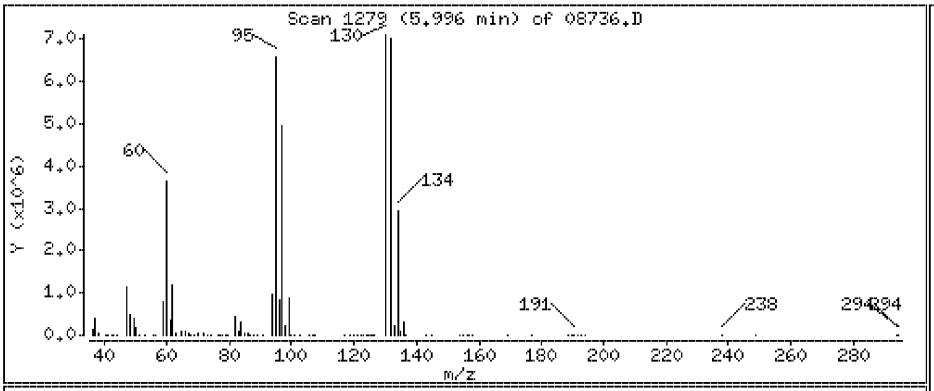
Operator: NCK

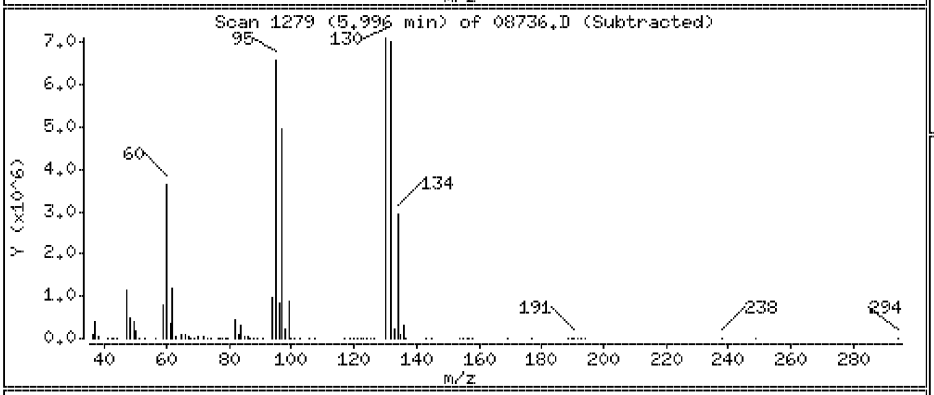
Column phase: J&W DB-5

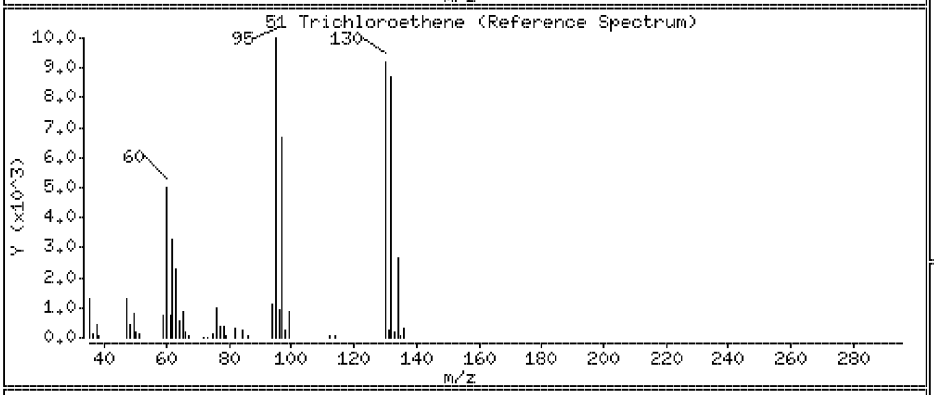
Column diameter: 0.32

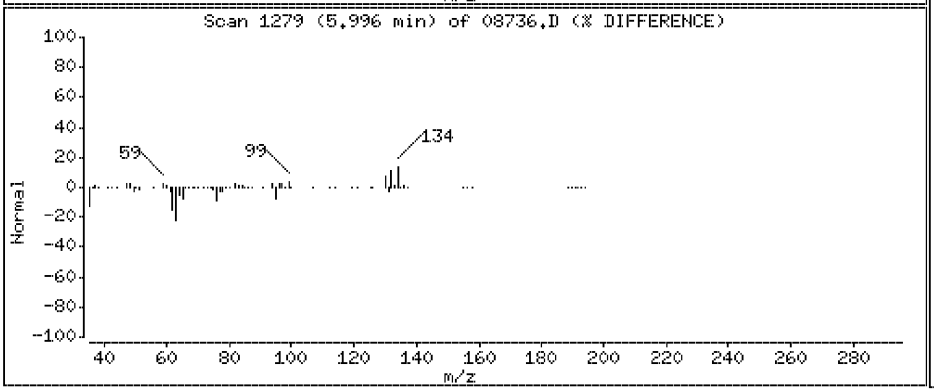
51 Trichloroethene

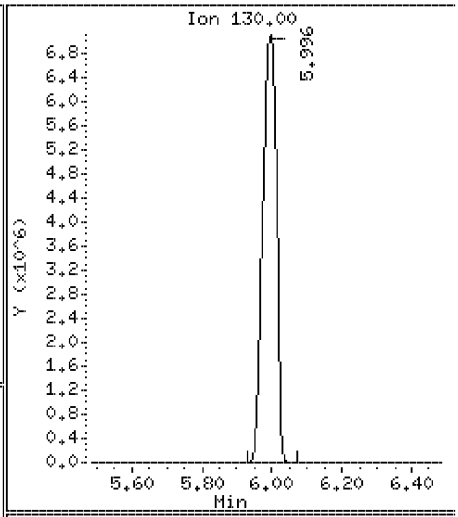
Concentration: 9090 ppbv

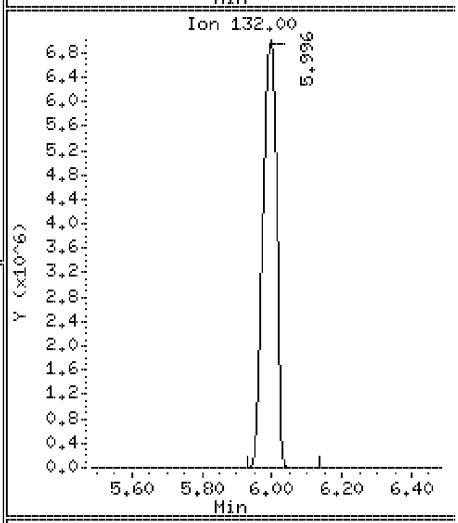


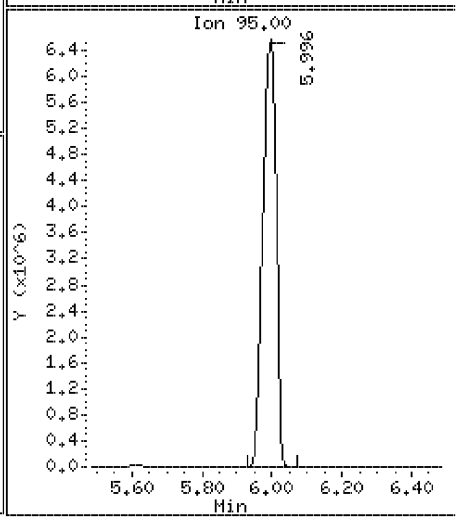












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

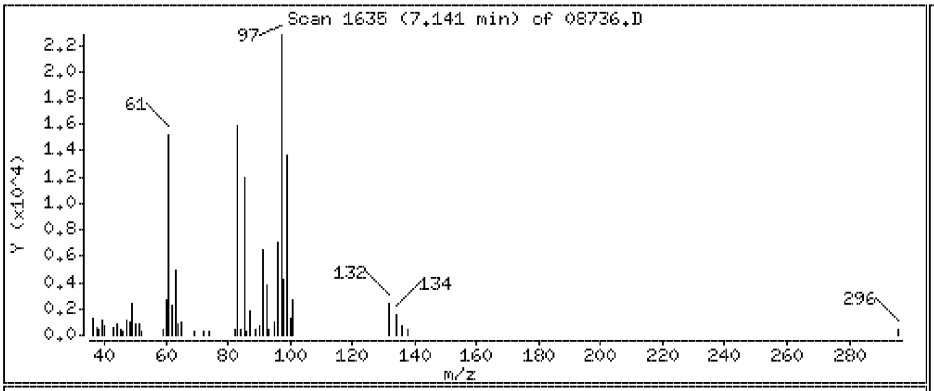
Operator: NCK

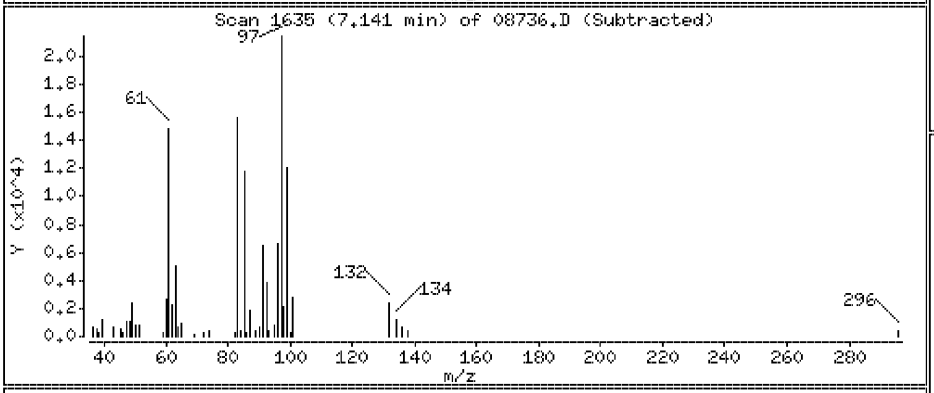
Column phase: J&W DB-5

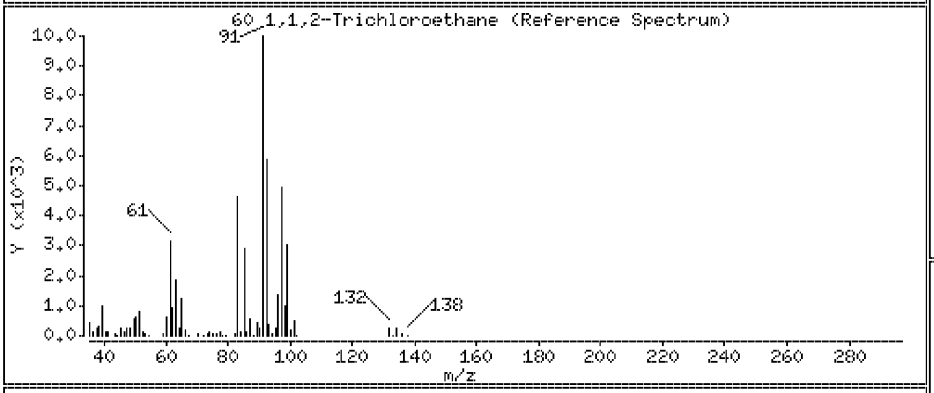
Column diameter: 0.32

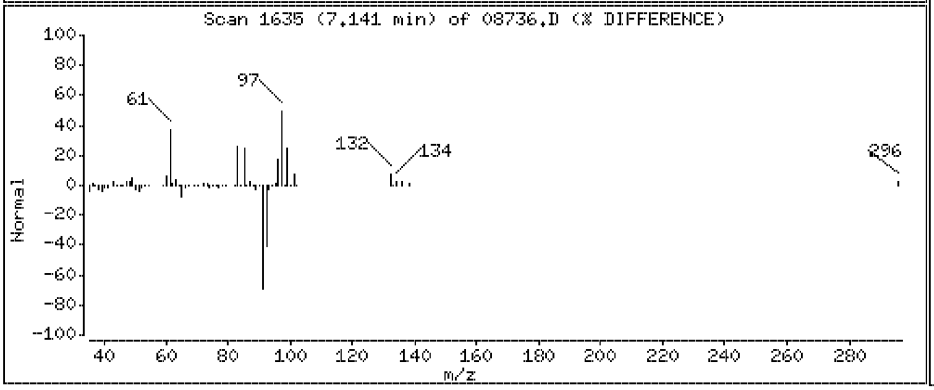
60 1,1,2-Trichloroethane

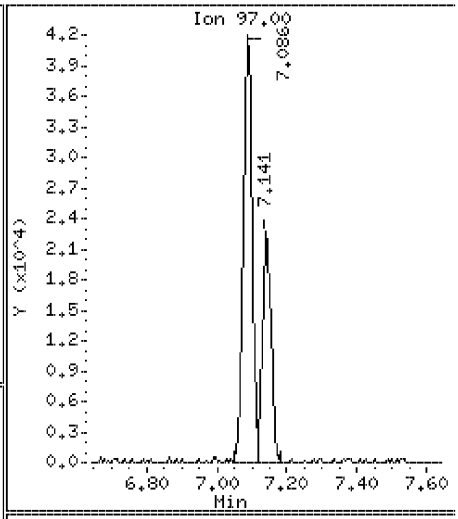
Concentration: 21.5 ppbv

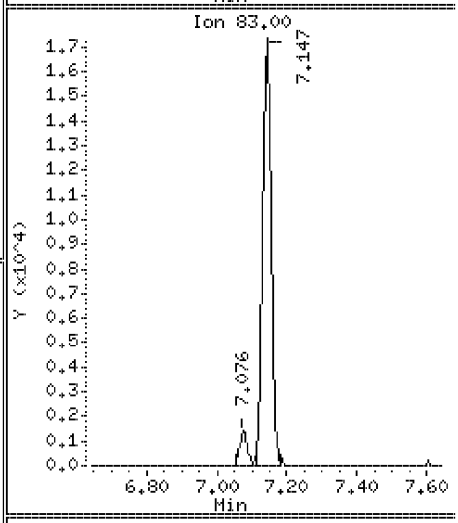


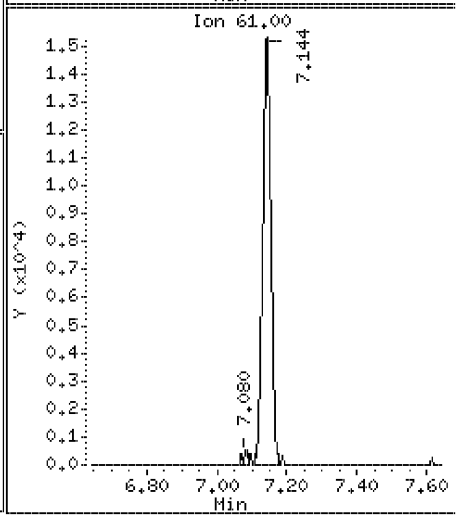












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

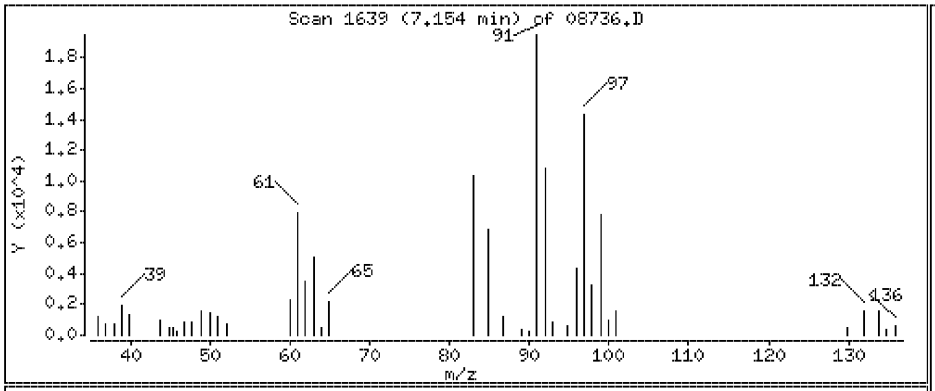
Operator: NCK

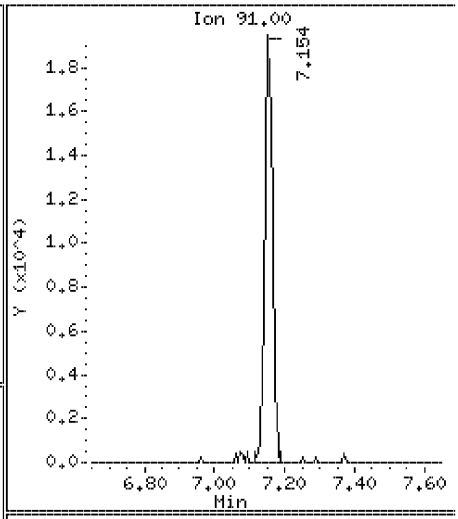
Column phase: J&W DB-5

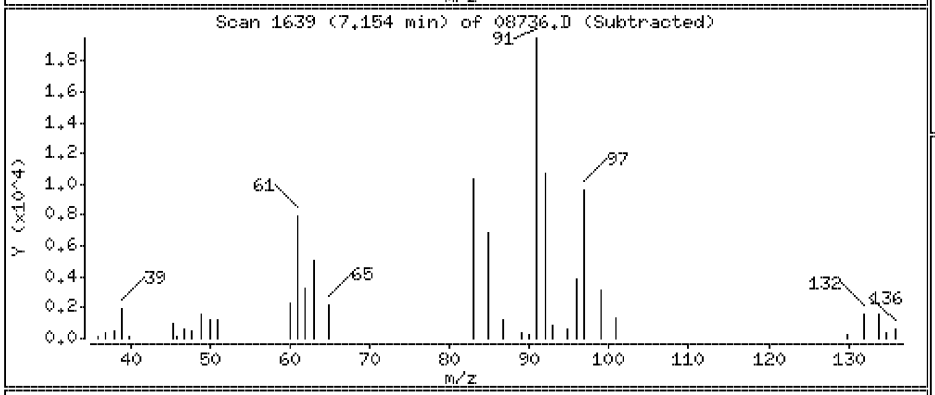
Column diameter: 0.32

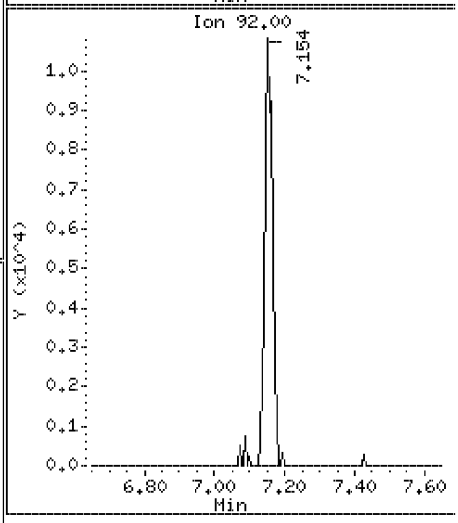
61 Toluene

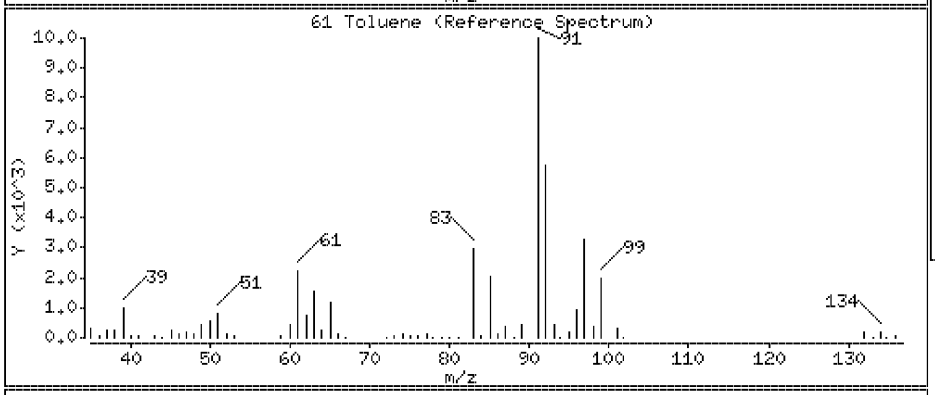
Concentration: 5.68 ppbv

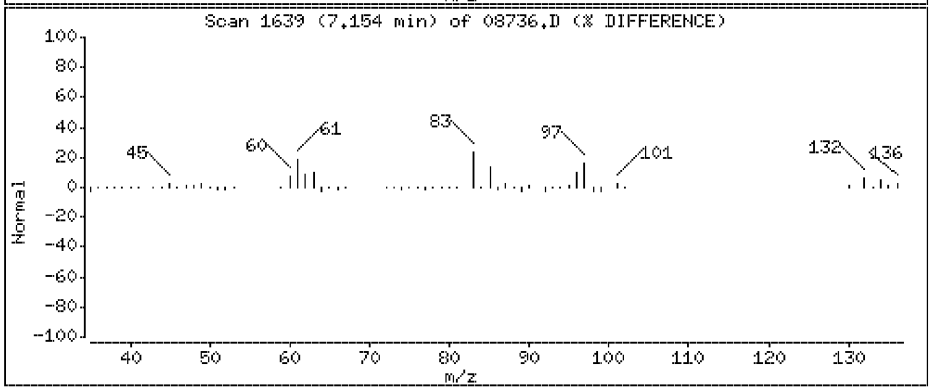












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08736.D

Date : 29-MAR-2017 02:57

Client ID:

Instrument: 10airB.i

Sample Info:

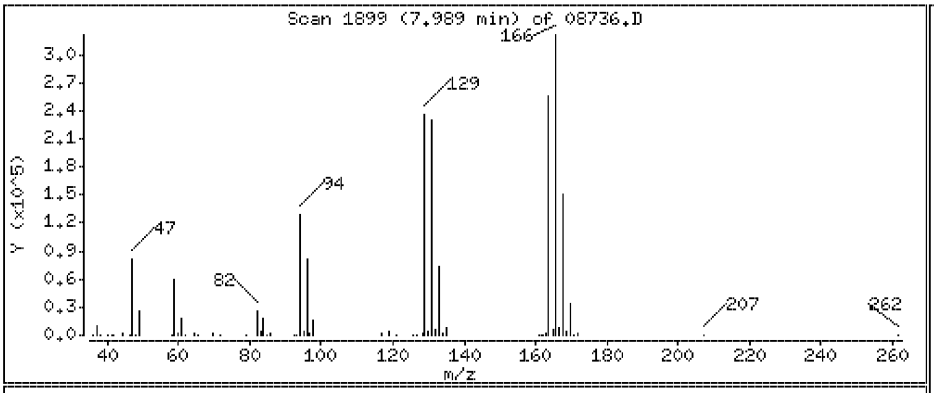
Operator: NCK

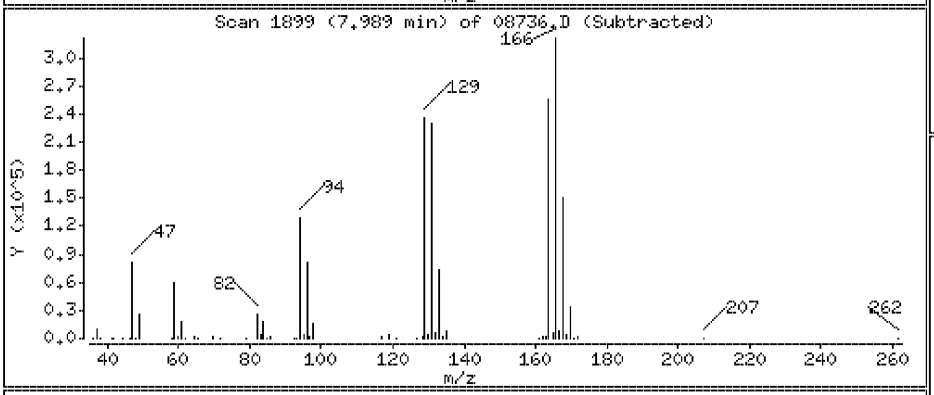
Column phase: J&W DB-5

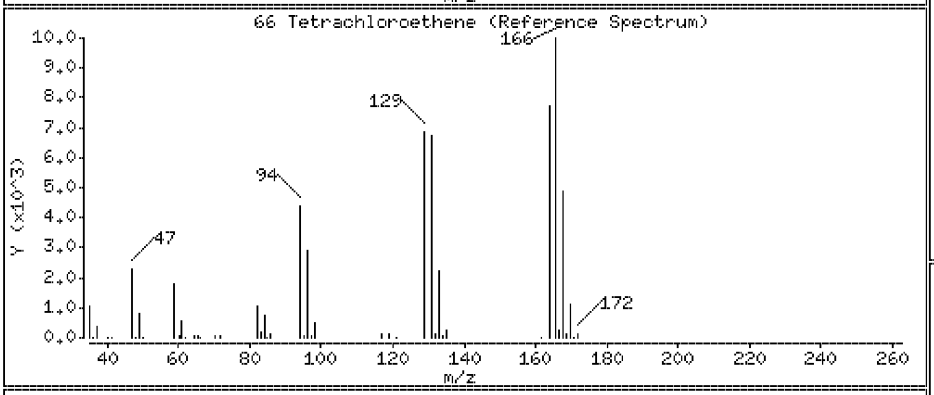
Column diameter: 0.32

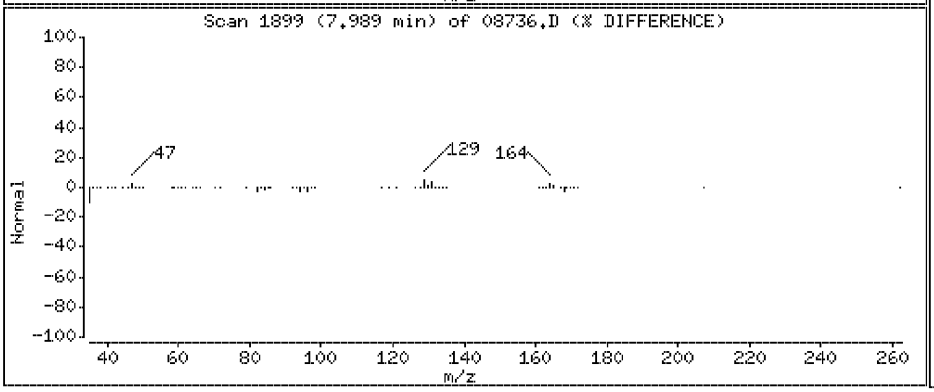
66 Tetrachloroethene

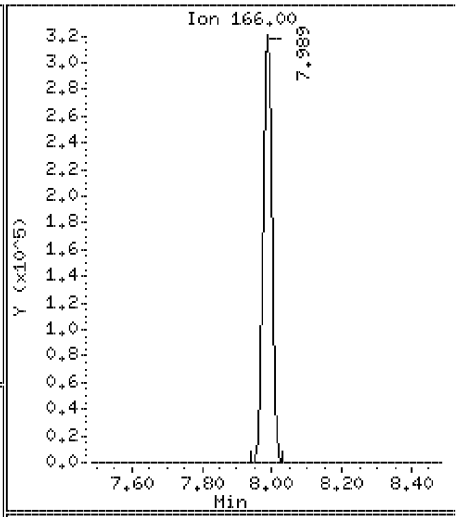
Concentration: 197 ppbv

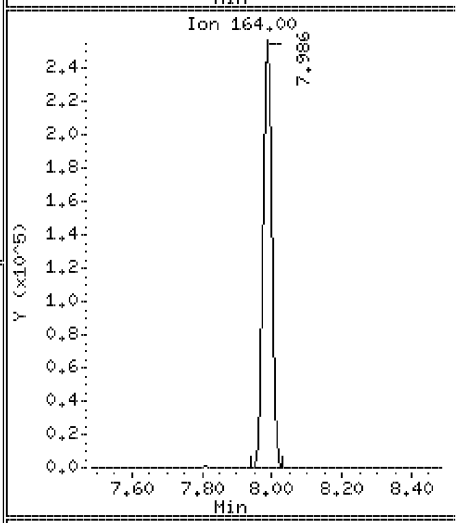


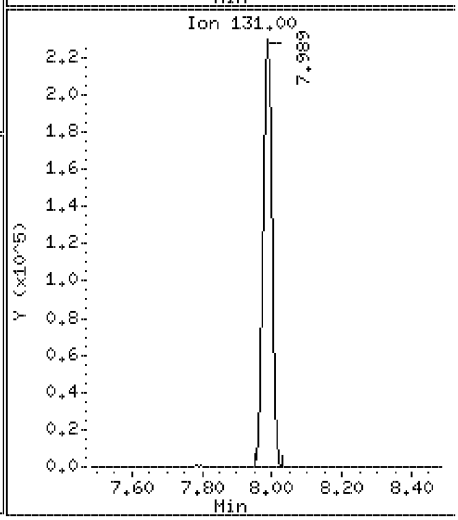






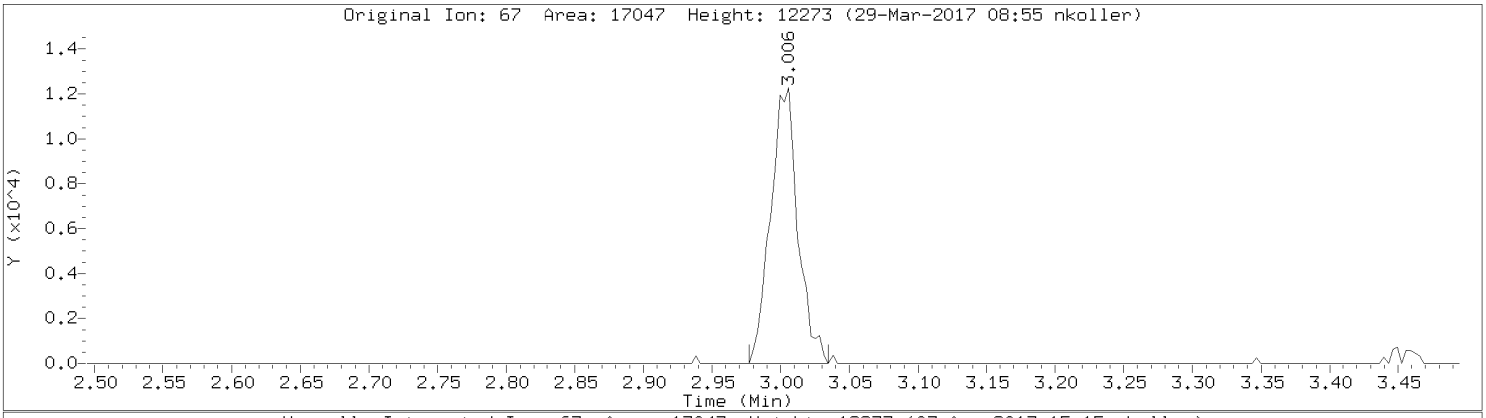


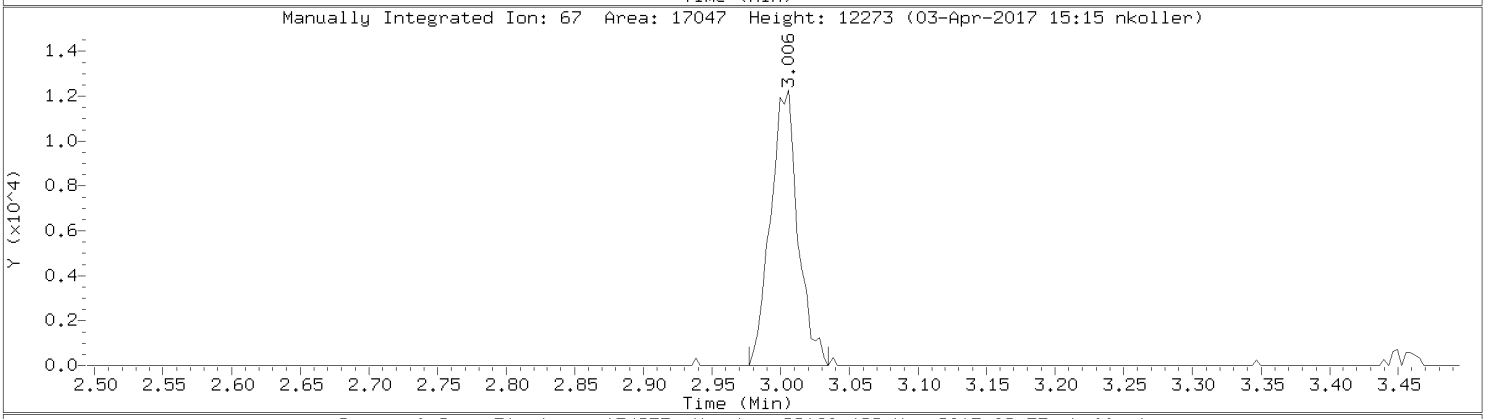


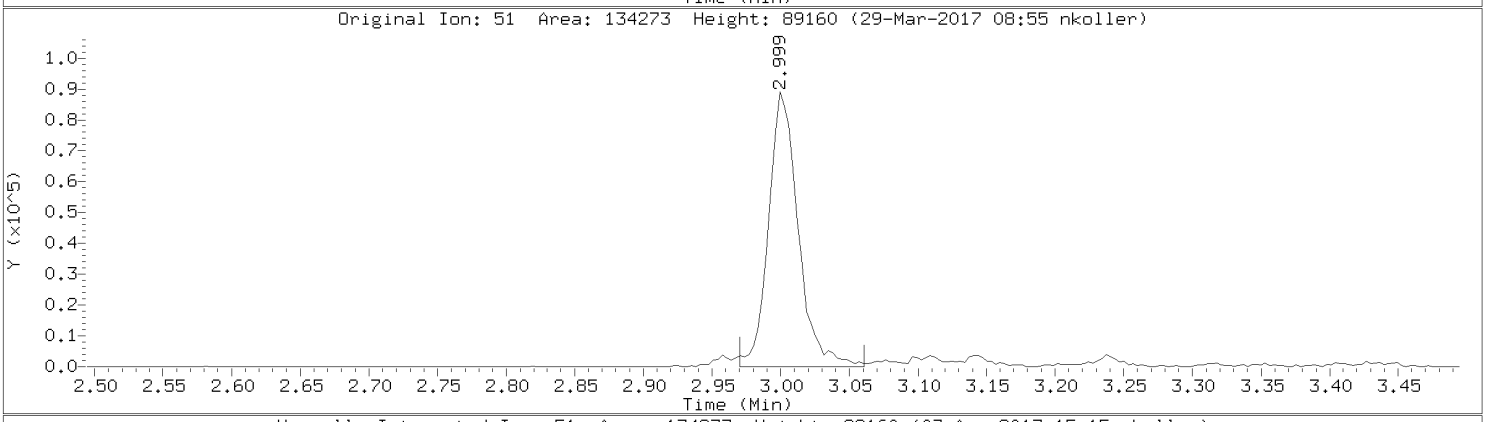


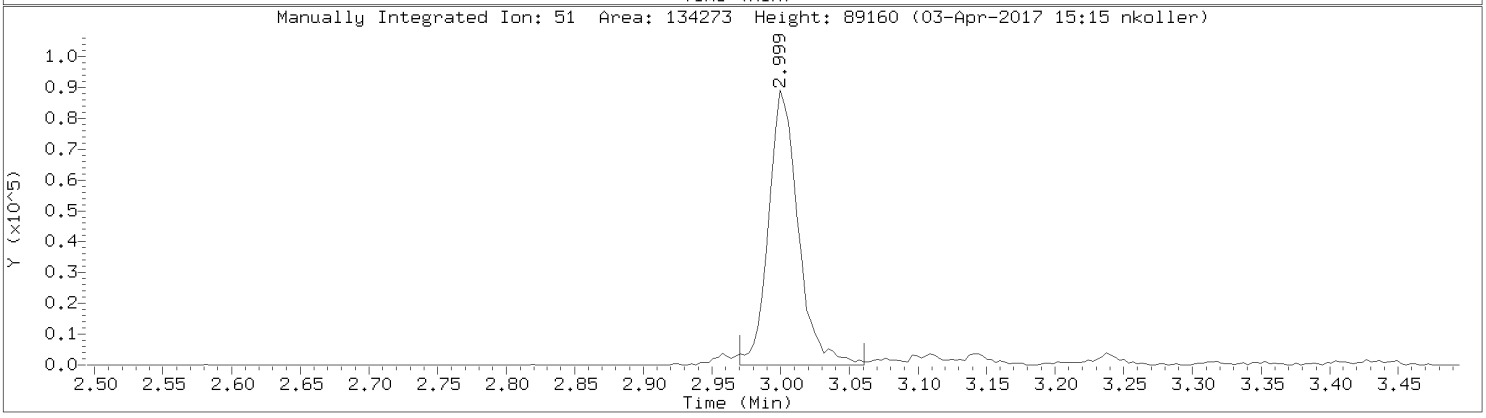
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08736.D
Injection Date: 29-MAR-2017 02:57
Instrument: 10airB.i
Lab Sample ID: 10381335006

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

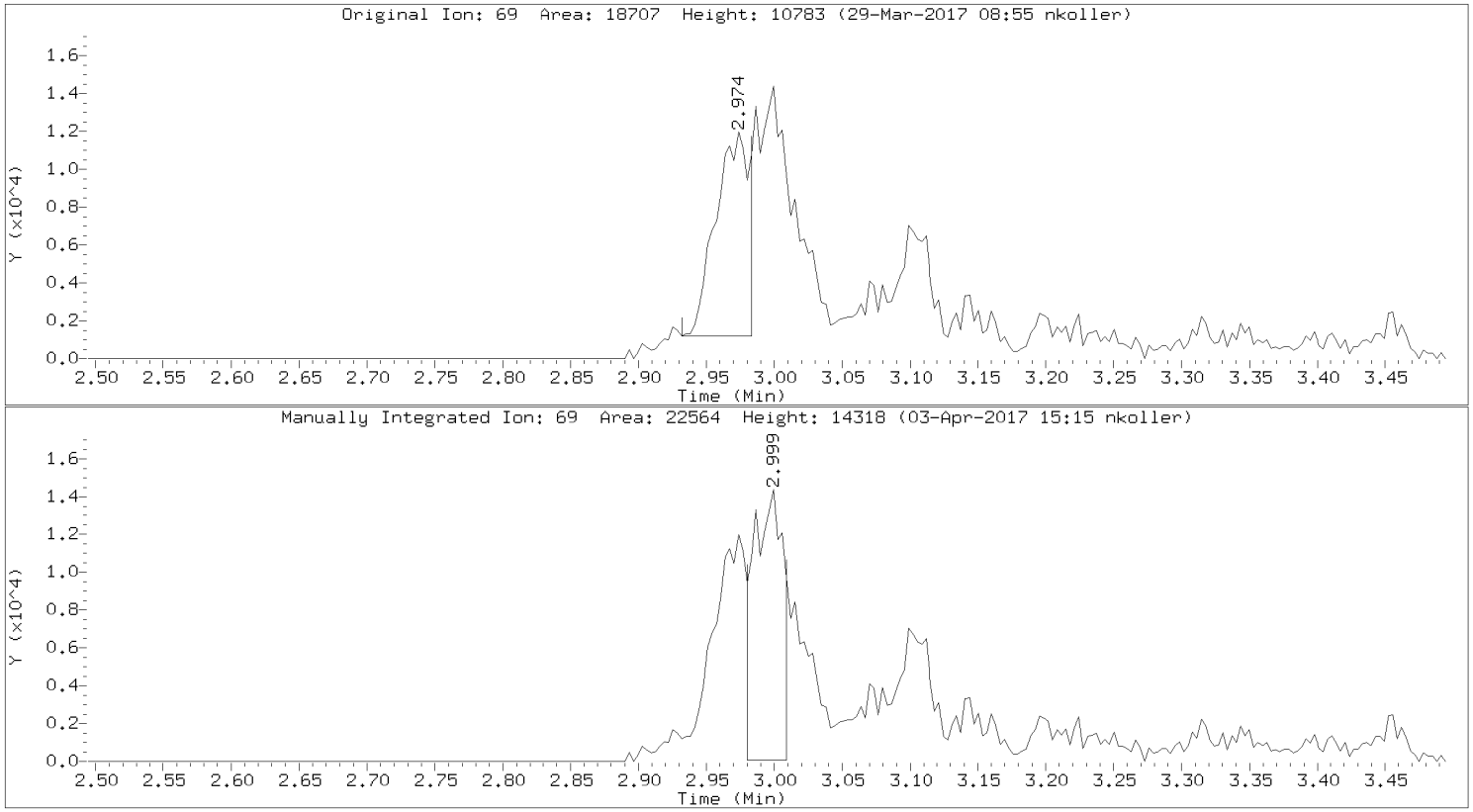








Data File: \\192.168.10.12\chem\10airB.i\032817.b/08736.D
Injection Date: 29-MAR-2017 02:57
Instrument: 10airB.i
Lab Sample ID: 10381335006



Data File: \\192.168.10.12\chem\10airB.i\040117.b\09125.D
Report Date: 03-Apr-2017 12:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040117.b\09125.D
Lab Smp Id: 10381335006
Inj Date : 01-APR-2017 19:50
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m
Meth Date : 03-Apr-2017 11:47 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 25
Dil Factor: 4121.60000
Integrator: HP RTE Compound Sublist: TCE.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	4121.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$ 32 Hexane-d14(S)	66	4.475	4.484	(0.800)	741708	9.95829	9.96
* 47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	1974294	10.0000	
51 Trichloroethene	130	5.973	5.989	(1.067)	1902577	23.7592	97900
$ 59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	1600635	9.67676	9.68
* 67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1091777	10.0000	
$ 85 1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	372193	7.54466	7.54

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09125.D
Report Date: 03-Apr-2017 12:59

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09125.D
Lab Smp Id: 10381335006
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m
Misc Info: 28028

Calibration Date: 01-APR-2017
Calibration Time: 07:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

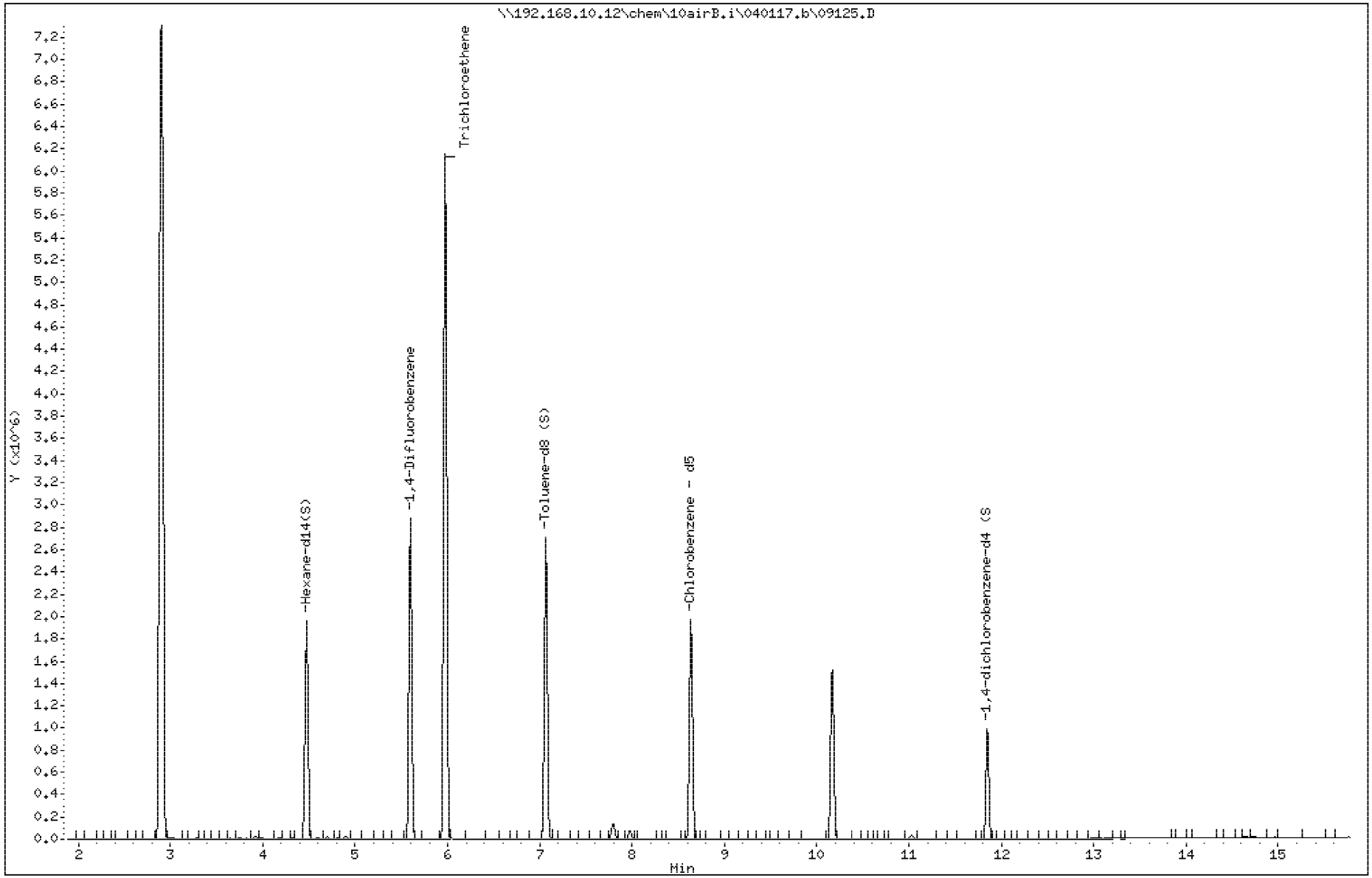
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1974294	1.94
67 Chlorobenzene - d	1173864	704318	1643410	1091777	-6.99

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09125.D
Date : 01-APR-2017 19:50
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040117.b\09125.D

Date : 01-APR-2017 19:50

Client ID:

Instrument: 10airB.i

Sample Info:

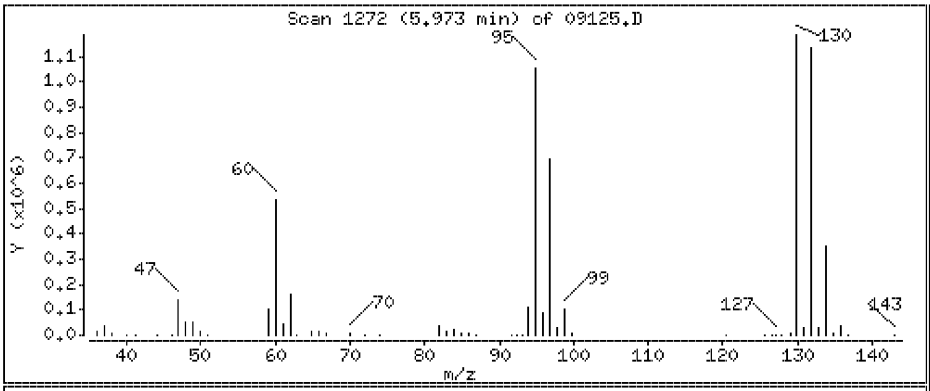
Operator: NCK

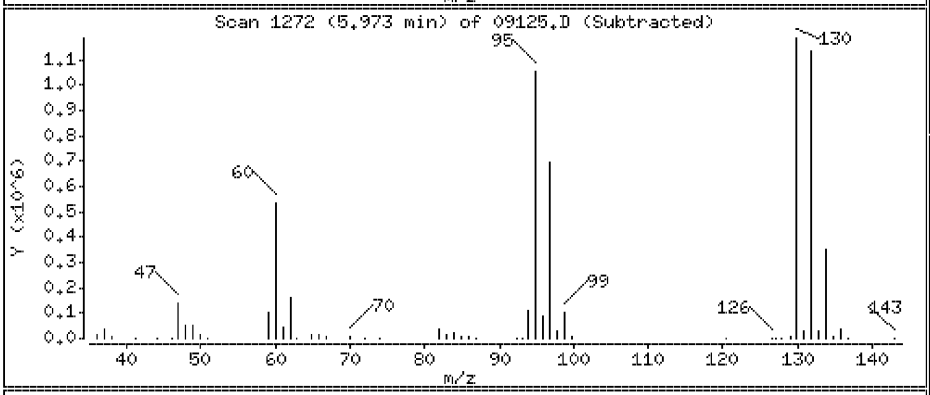
Column phase: J&W DB-5

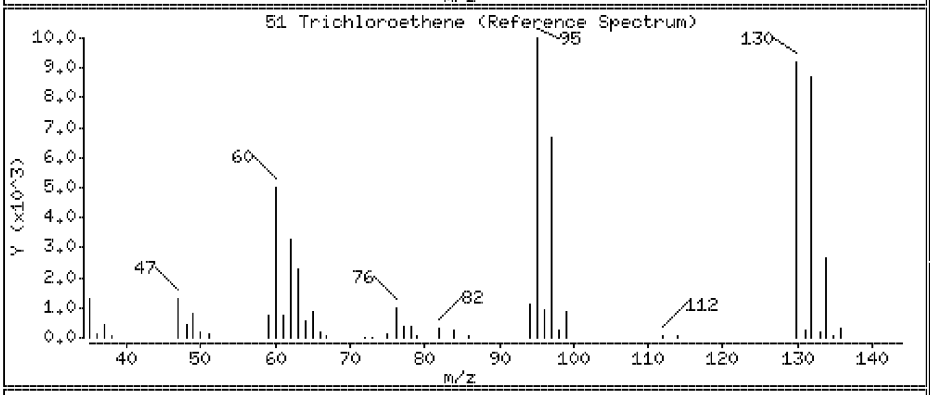
Column diameter: 0.32

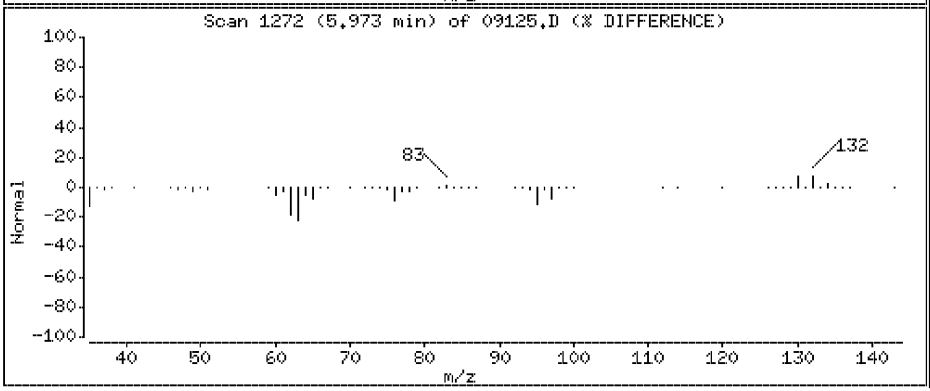
51 Trichloroethene

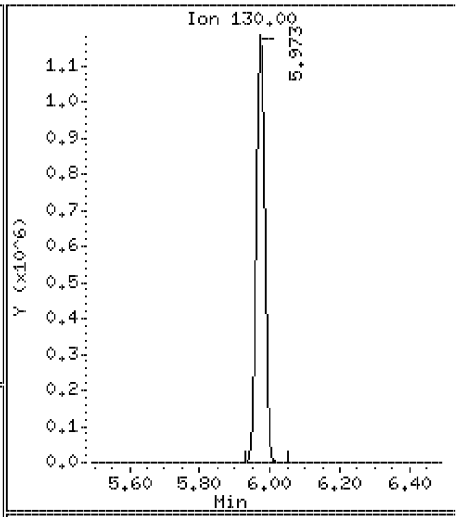
Concentration: 97900 ppbv

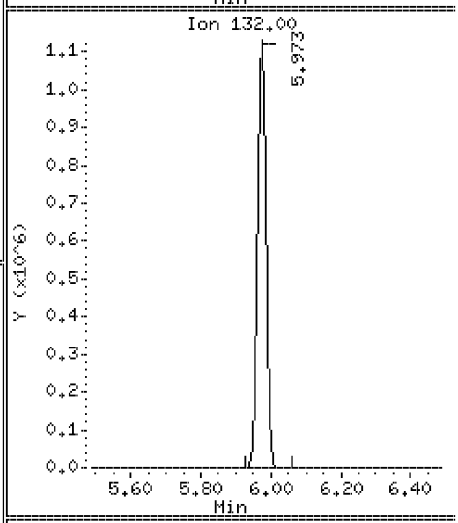


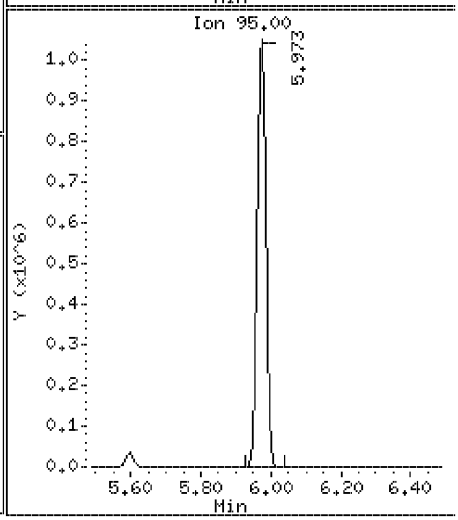












Data File: \\192.168.10.12\chem\10airB.i\040117.b/09125.D
Injection Date: 01-APR-2017 19:50
Instrument: 10airB.i
Lab Sample ID: 10381335006
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_33.5_20170306 **Lab ID: 10381335006** Collected: 03/06/17 13:41 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichlorofluoromethane	**85.5**	ug/m3	36.7	4.3	32.2		03/29/17 02:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	**765**	ug/m3	51.5	9.7	32.2		03/29/17 02:57	76-13-1	
1,2,4-Trimethylbenzene	**<4.0**	ug/m3	32.2	4.0	32.2		03/29/17 02:57	95-63-6	
1,3,5-Trimethylbenzene	**<5.9**	ug/m3	32.2	5.9	32.2		03/29/17 02:57	108-67-8	
Vinyl chloride	**<6.3**	ug/m3	8.4	6.3	32.2		03/29/17 02:57	75-01-4	
m&p-Xylene	**<25.3**	ug/m3	57.0	25.3	32.2		03/29/17 02:57	179601-23-1	
o-Xylene	**<11.3**	ug/m3	28.3	11.3	32.2		03/29/17 02:57	95-47-6	

Sample: VP-107_44_20170306 **Lab ID: 10381335007** Collected: 03/06/17 13:22 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<76.2**	ug/m3	221	76.2	91.5		03/31/17 06:30	67-64-1	
Allyl chloride	**<20.8**	ug/m3	145	20.8	91.5		03/31/17 06:30	107-05-1	
Benzene	**<11.2**	ug/m3	29.7	11.2	91.5		03/31/17 06:30	71-43-2	
Bromodichloromethane	**<17.8**	ug/m3	623	17.8	91.5		03/31/17 06:30	75-27-4	
Bromoform	**<82.4**	ug/m3	192	82.4	91.5		03/31/17 06:30	75-25-2	
Bromomethane	**<28.4**	ug/m3	72.3	28.4	91.5		03/31/17 06:30	74-83-9	
1,3-Butadiene	**<16.1**	ug/m3	41.2	16.1	91.5		03/31/17 06:30	106-99-0	
2-Butanone (MEK)	**<20.9**	ug/m3	274	20.9	91.5		03/31/17 06:30	78-93-3	
Carbon disulfide	**<9.2**	ug/m3	57.6	9.2	91.5		03/31/17 06:30	75-15-0	
Carbon tetrachloride	**<17.7**	ug/m3	58.6	17.7	91.5		03/31/17 06:30	56-23-5	
Chlorobenzene	**<12.3**	ug/m3	86.0	12.3	91.5		03/31/17 06:30	108-90-7	
Chlorodifluoromethane	**195**	ug/m3	65.8	25.3	91.5		03/31/17 06:30	75-45-6	
Chloroethane	**<17.8**	ug/m3	49.4	17.8	91.5		03/31/17 06:30	75-00-3	
Chloroform	**161**	ug/m3	45.4	17.4	91.5		03/31/17 06:30	67-66-3	CH,L1
Chloromethane	**<9.9**	ug/m3	38.4	9.9	91.5		03/31/17 06:30	74-87-3	
Chloropentafluoroethane	**<294**	ug/m3	294	294	91.5		03/31/17 06:30	76-15-3	
Cyclohexane	**<28.9**	ug/m3	64.0	28.9	91.5		03/31/17 06:30	110-82-7	
1,2-Dibromo-3-chloropropane	**<449**	ug/m3	449	449	91.5		03/31/17 06:30	96-12-8	
Dibromochloromethane	**<78.3**	ug/m3	158	78.3	91.5		03/31/17 06:30	124-48-1	
1,2-Dibromoethane (EDB)	**<70.8**	ug/m3	143	70.8	91.5		03/31/17 06:30	106-93-4	
1,2-Dichlorobenzene	**<46.8**	ug/m3	112	46.8	91.5		03/31/17 06:30	95-50-1	
1,3-Dichlorobenzene	**<48.5**	ug/m3	112	48.5	91.5		03/31/17 06:30	541-73-1	
1,4-Dichlorobenzene	**<45.7**	ug/m3	280	45.7	91.5		03/31/17 06:30	106-46-7	
Dichlorodifluoromethane	**<43.9**	ug/m3	92.4	43.9	91.5		03/31/17 06:30	75-71-8	
1,1-Dichloroethane	**<14.4**	ug/m3	75.0	14.4	91.5		03/31/17 06:30	75-34-3	
1,2-Dichloroethane	**<18.8**	ug/m3	37.5	18.8	91.5		03/31/17 06:30	107-06-2	
1,1-Dichloroethene	**<21.8**	ug/m3	74.1	21.8	91.5		03/31/17 06:30	75-35-4	
cis-1,2-Dichloroethene	**814**	ug/m3	74.1	22.5	91.5		03/31/17 06:30	156-59-2	CH,L1
cis-1,2-Dichloroethene	**838**	ug/m3	474		585.6		04/04/17 13:10	156-59-2	A3
trans-1,2-Dichloroethene	**<35.1**	ug/m3	74.1	35.1	91.5		03/31/17 06:30	156-60-5	
1,2-Dichloropropane	**<24.7**	ug/m3	86.0	24.7	91.5		03/31/17 06:30	78-87-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D
Report Date: 04-Apr-2017 13:03

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08938.D
Lab Smp Id: 10381335007
Inj Date : 31-MAR-2017 06:30
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28049
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 04-Apr-2017 12:52 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 38
Dil Factor: 91.50000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	91.500	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.095	3.076	(0.547)	7045	0.59143	54.1(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.999	4.018	(0.707)	26826	0.38272	35.0	
23	Methyl Acetate	43	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D
Report Date: 04-Apr-2017 13:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.539	4.548	(0.802)	838856	12.4098	12.4	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.751	4.796	(0.840)	83886	2.20756	202(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.860	4.915	(0.859)	27587	0.35434	32.4	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.658	5.674	(1.000)	1770470	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.031	6.047	(1.066)	5957058	87.8053	8030(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.111	7.121	(1.257)	1511716	10.1125	10.1	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.008	8.021	(0.925)	214395	2.42557	222	
*	67 Chlorobenzene - d5	117	8.661	8.677	(1.000)	1085406	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D
Report Date: 04-Apr-2017 13:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.860	11.870	(1.369)	377775	7.63376	7.63	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D
Report Date: 04-Apr-2017 13:03

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08938.D
Lab Smp Id: 10381335007
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info: 28049

Calibration Date: 31-MAR-2017
Calibration Time: 03:32
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

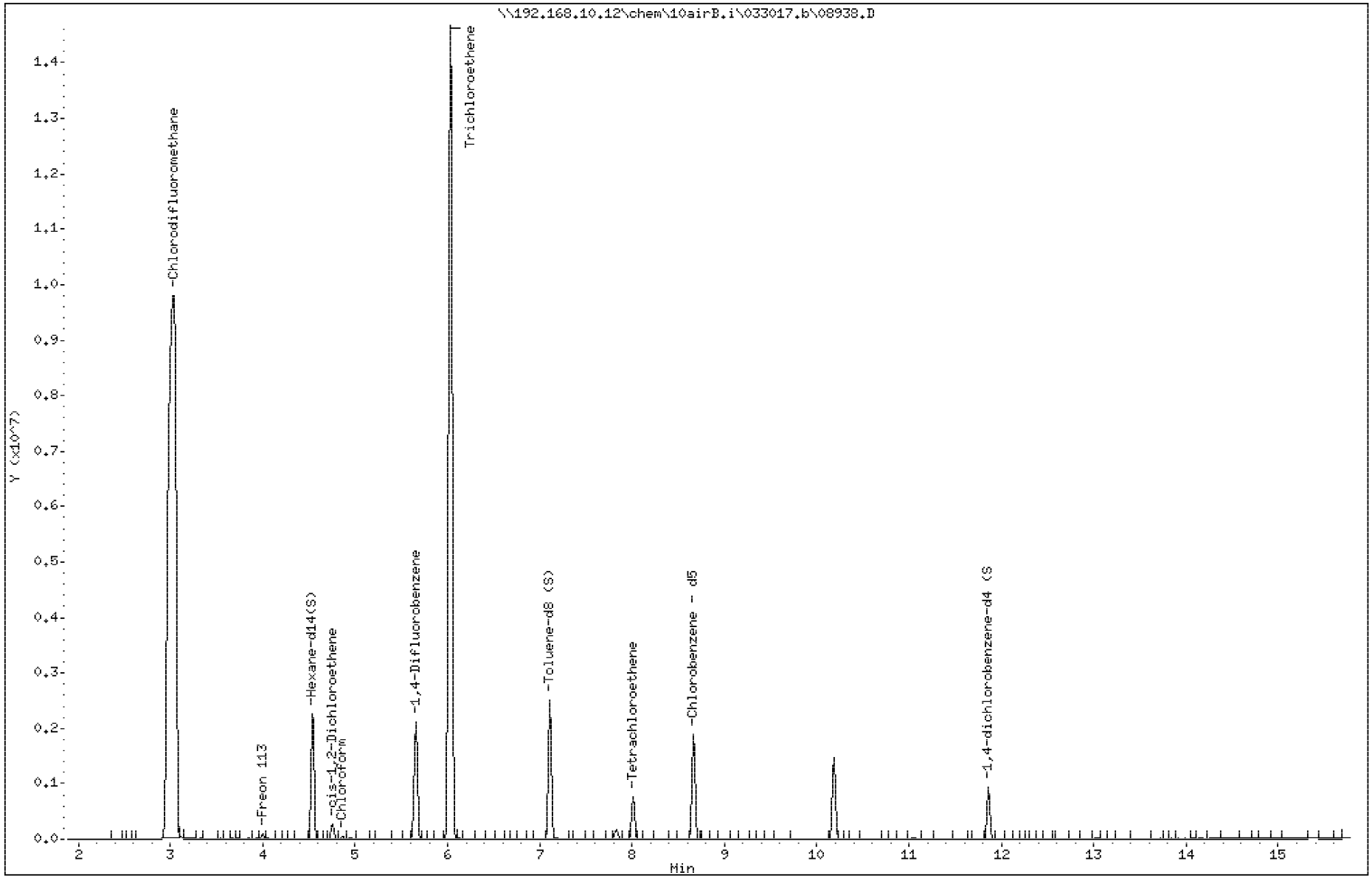
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	1770470	-2.85
67 Chlorobenzene - d	1204744	722846	1686642	1085406	-9.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.67	5.34	6.00	5.66	-0.28
67 Chlorobenzene - d	8.68	8.35	9.01	8.66	-0.18

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D
Date : 31-MAR-2017 06:30
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D

Date : 31-MAR-2017 06:30

Client ID:

Instrument: 10airB.i

Sample Info:

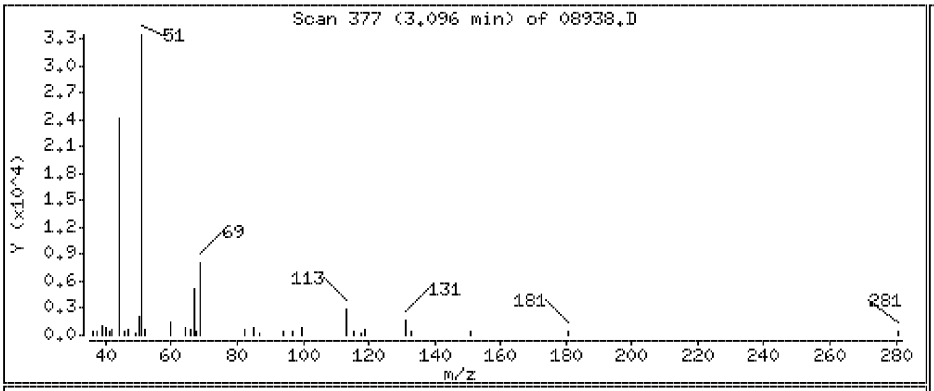
Operator: NCK

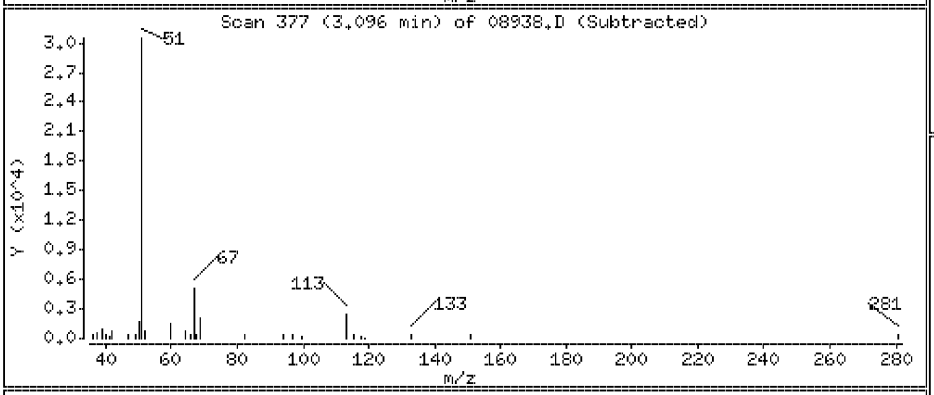
Column phase: J&W DB-5

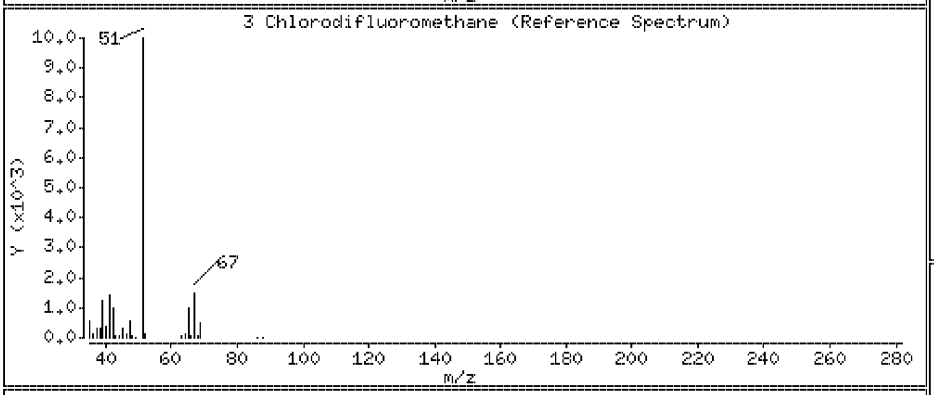
Column diameter: 0.32

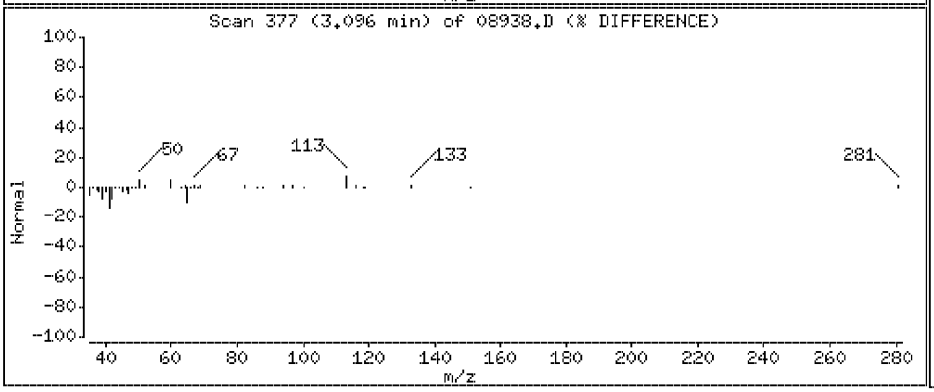
3 Chlorodifluoromethane

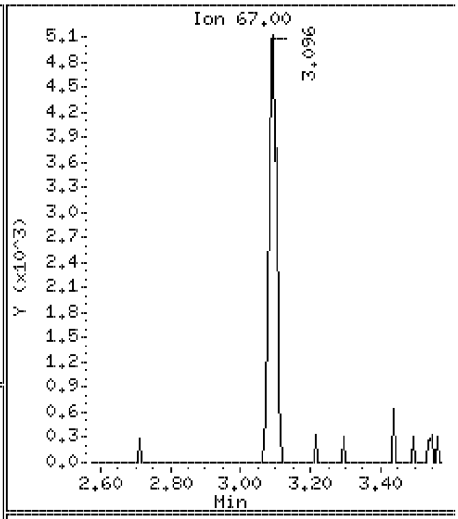
Concentration: 54.1 ppbv

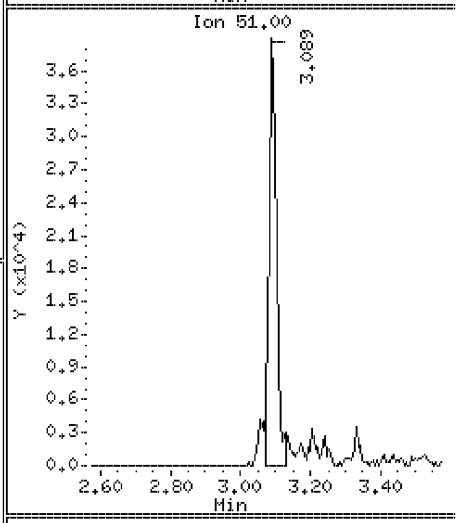


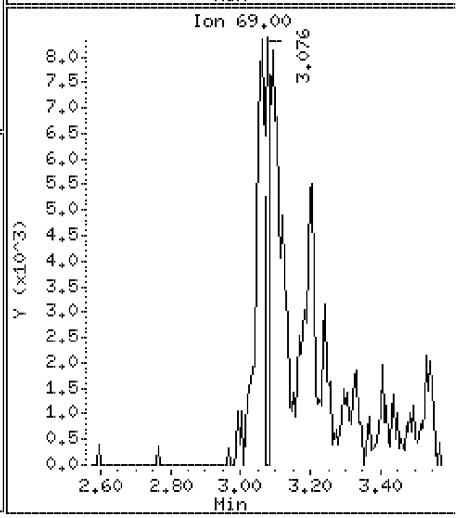












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D

Date : 31-MAR-2017 06:30

Client ID:

Instrument: 10airB.i

Sample Info:

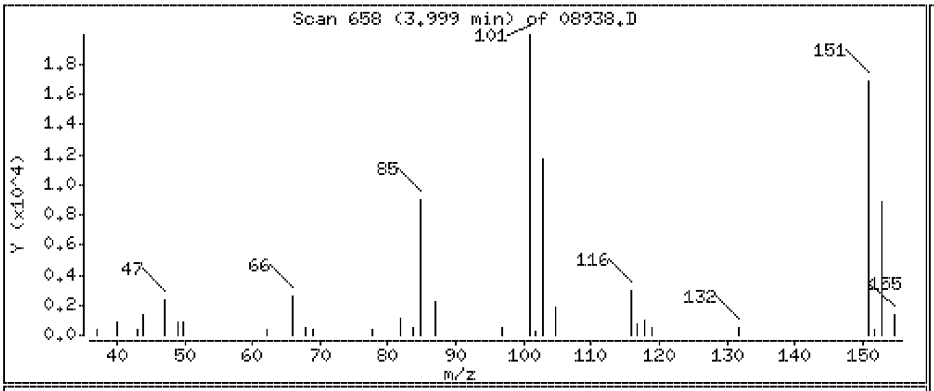
Operator: NCK

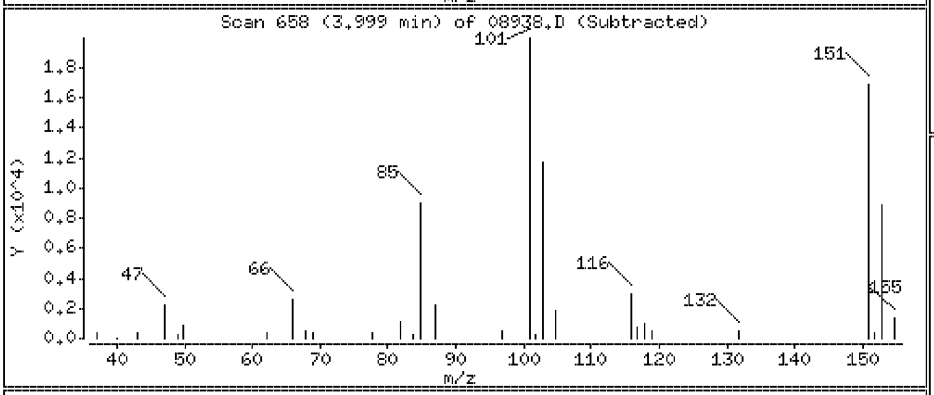
Column phase: J&W DB-5

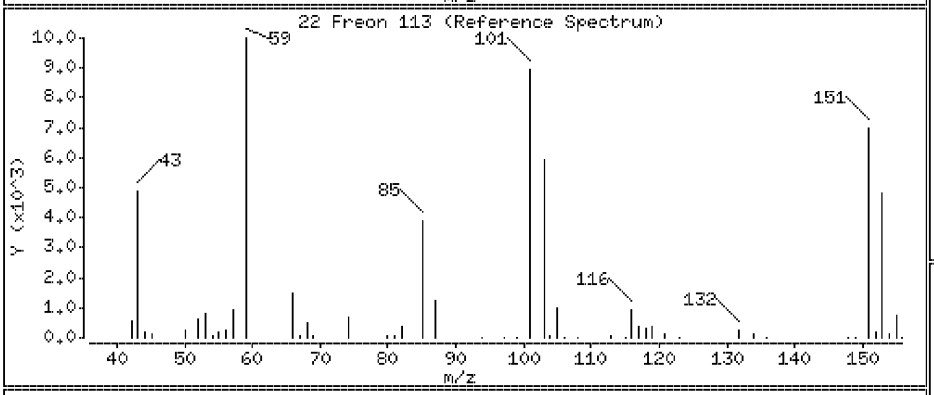
Column diameter: 0.32

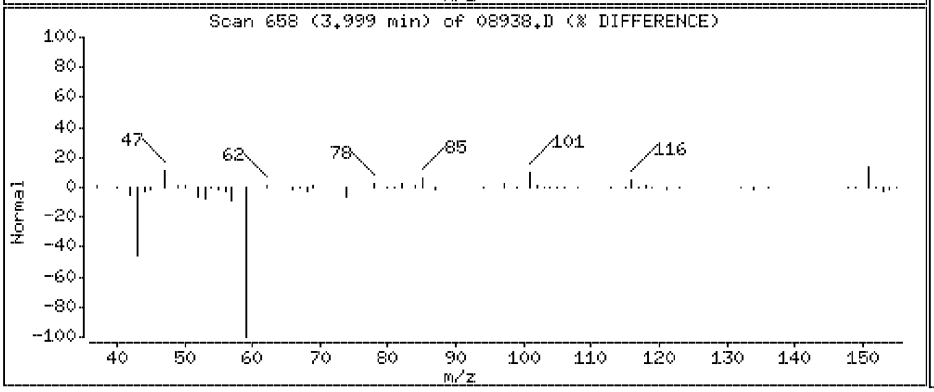
22 Freon 113

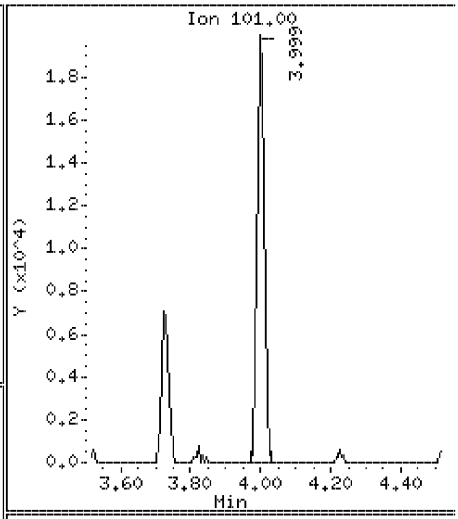
Concentration: 35.0 ppbv

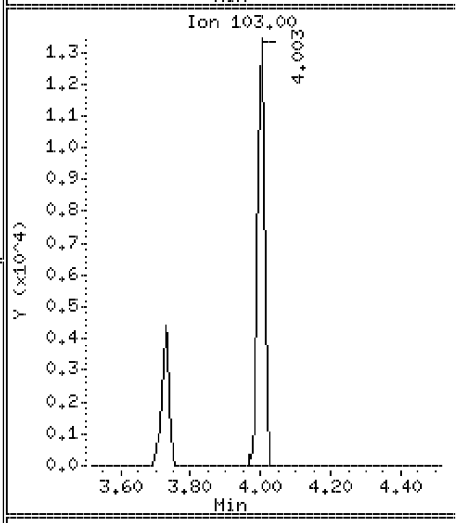


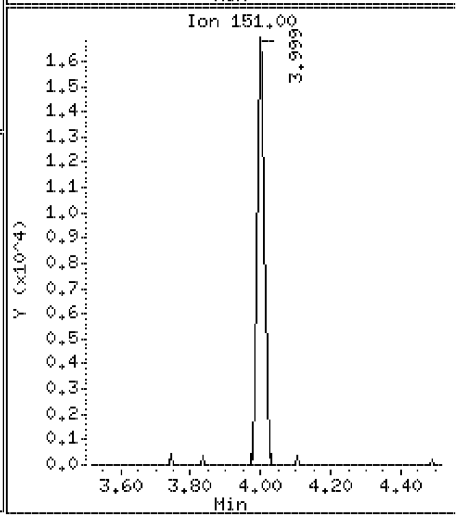












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D

Date : 31-MAR-2017 06:30

Client ID:

Instrument: 10airB.i

Sample Info:

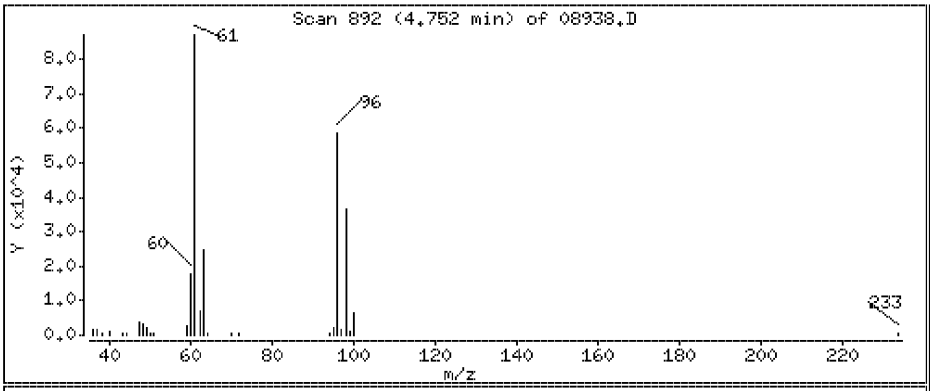
Operator: NCK

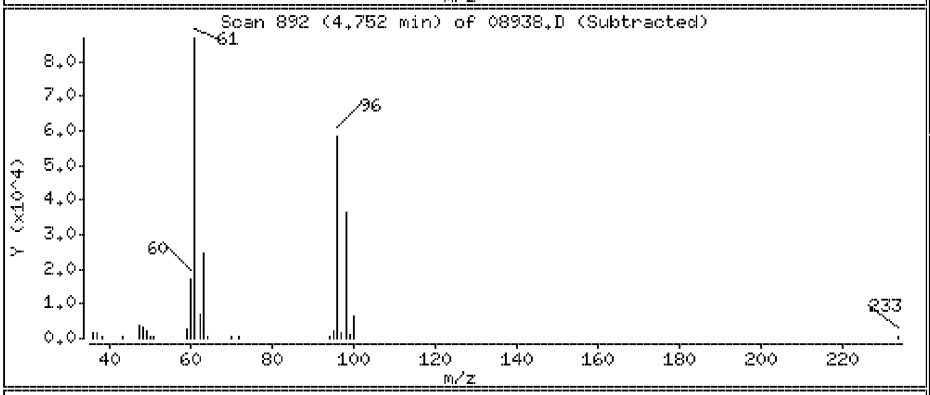
Column phase: J&W DB-5

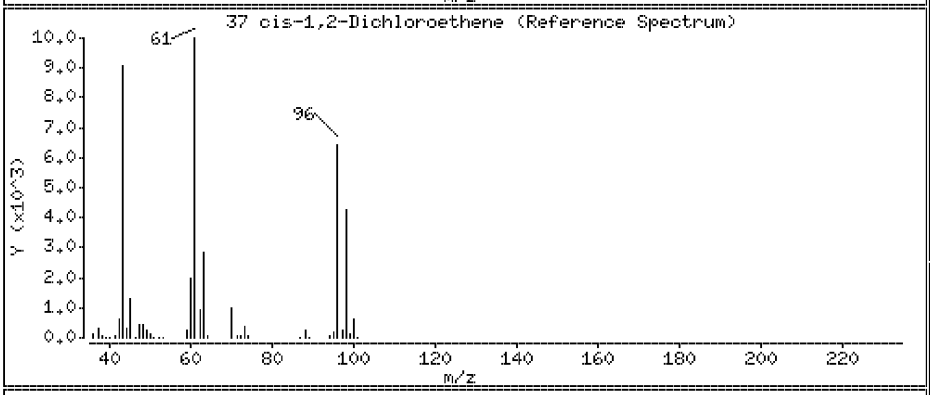
Column diameter: 0.32

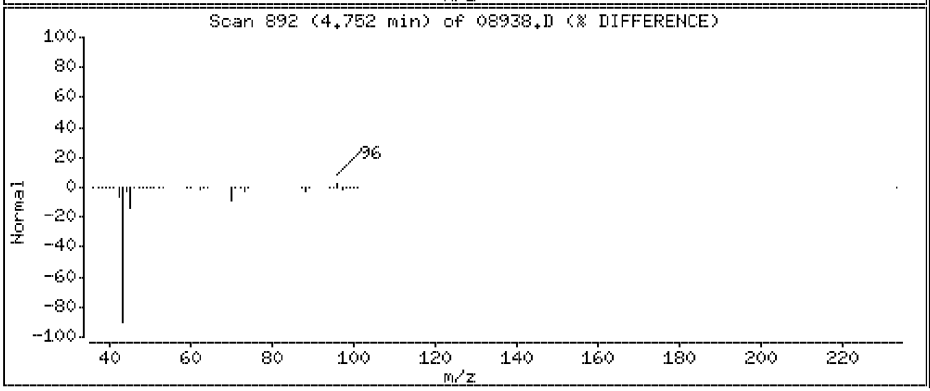
37 cis-1,2-Dichloroethene

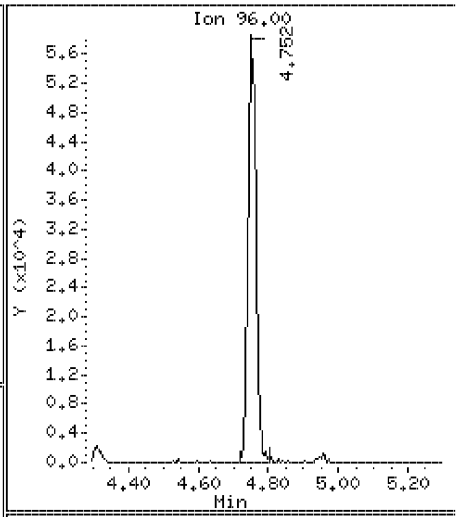
Concentration: 202 ppbv

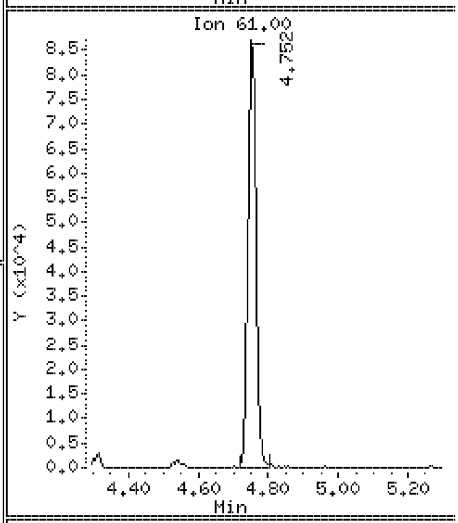


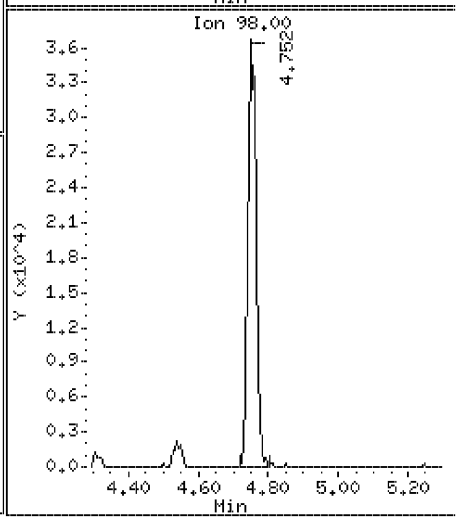












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D

Date : 31-MAR-2017 06:30

Client ID:

Instrument: 10airB.i

Sample Info:

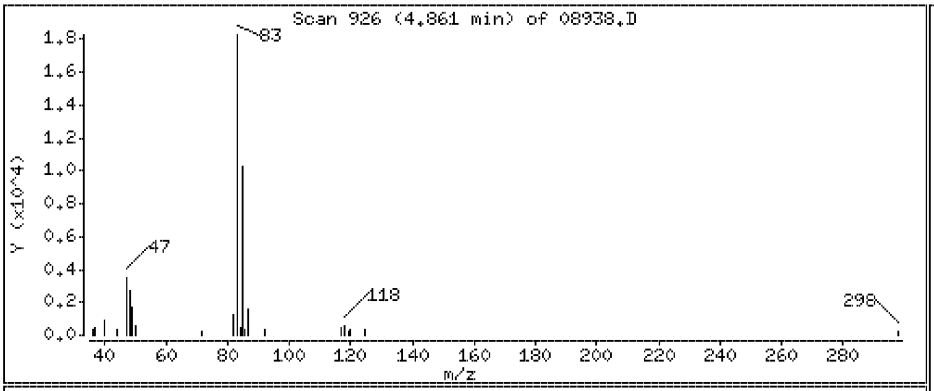
Operator: NCK

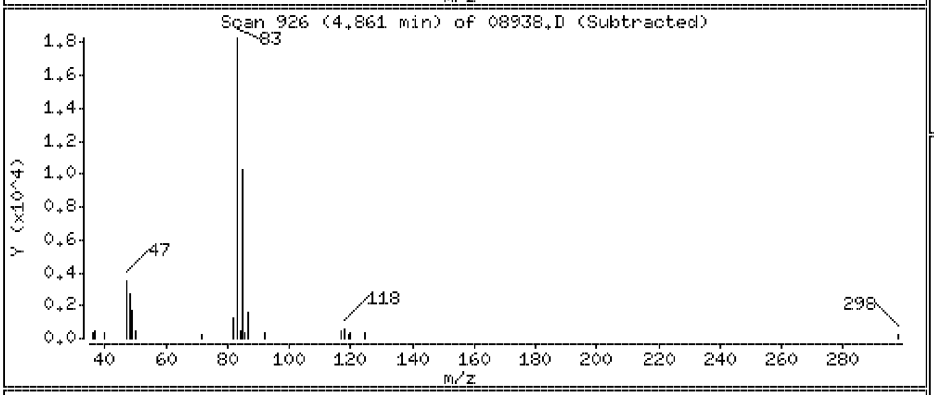
Column phase: J&W DB-5

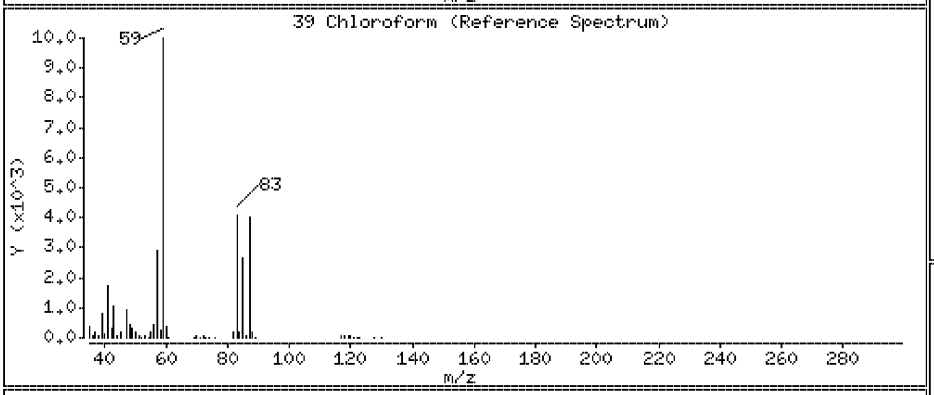
Column diameter: 0.32

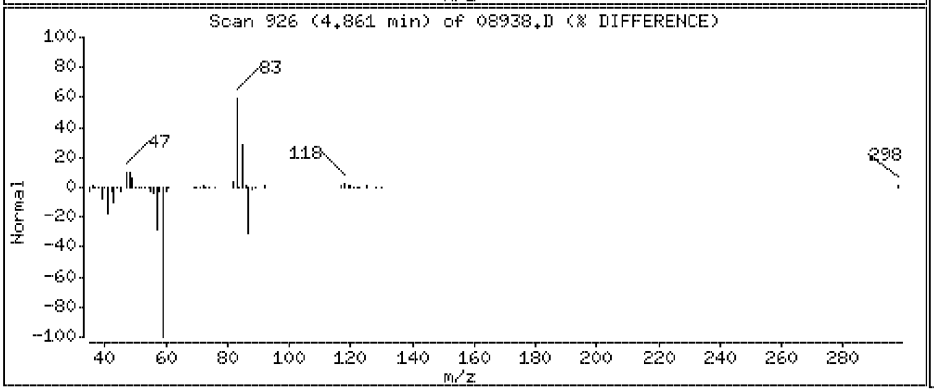
39 Chloroform

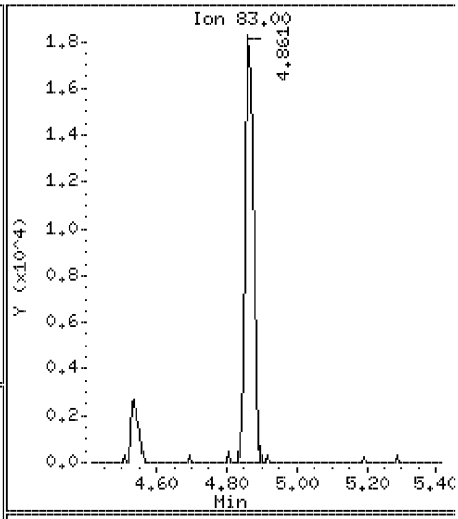
Concentration: 32.4 ppbv

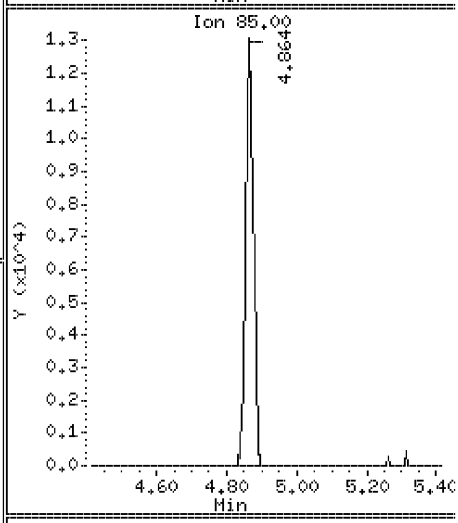


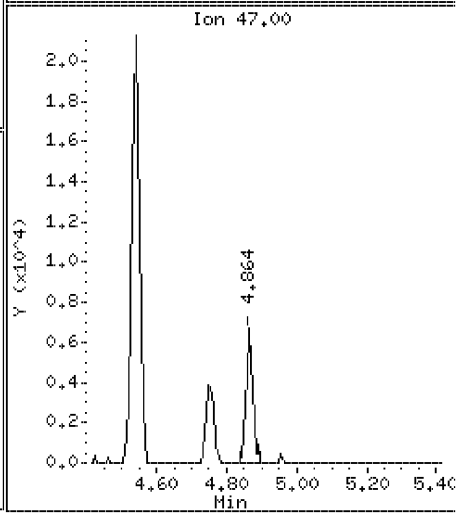












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D

Date : 31-MAR-2017 06:30

Client ID:

Instrument: 10airB.i

Sample Info:

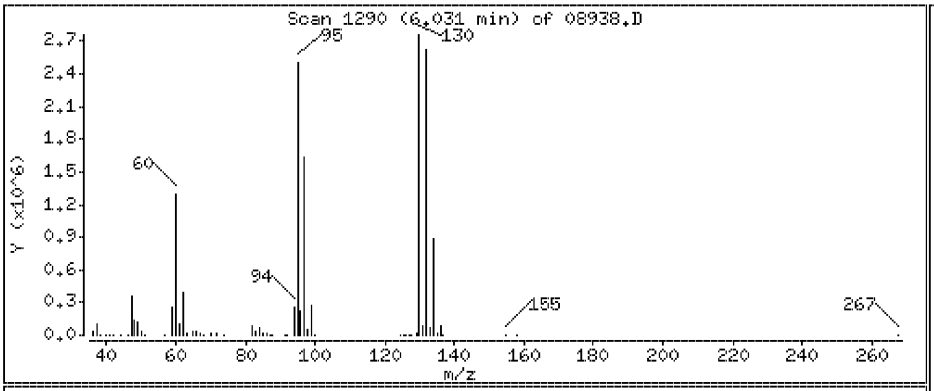
Operator: NCK

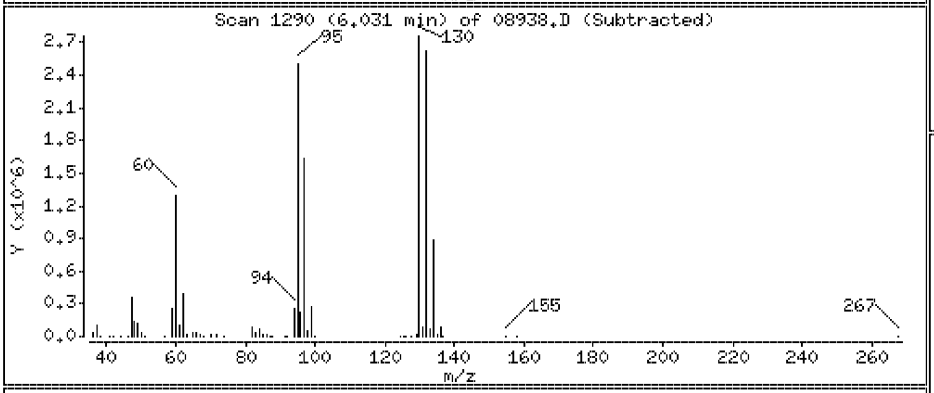
Column phase: J&W DB-5

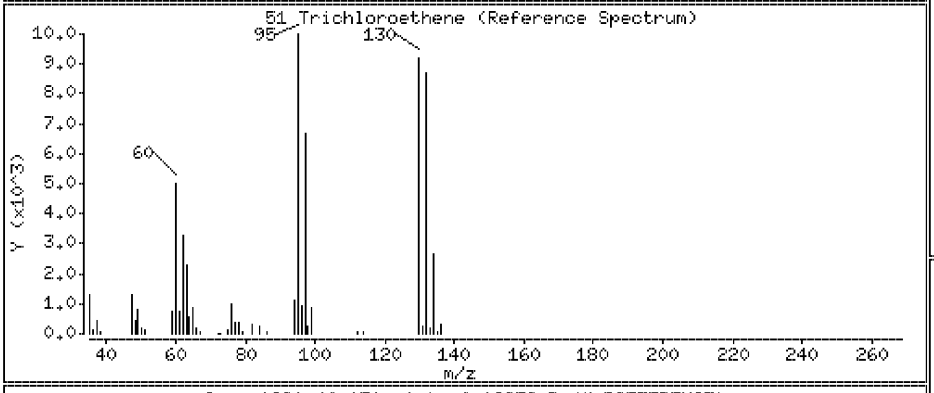
Column diameter: 0.32

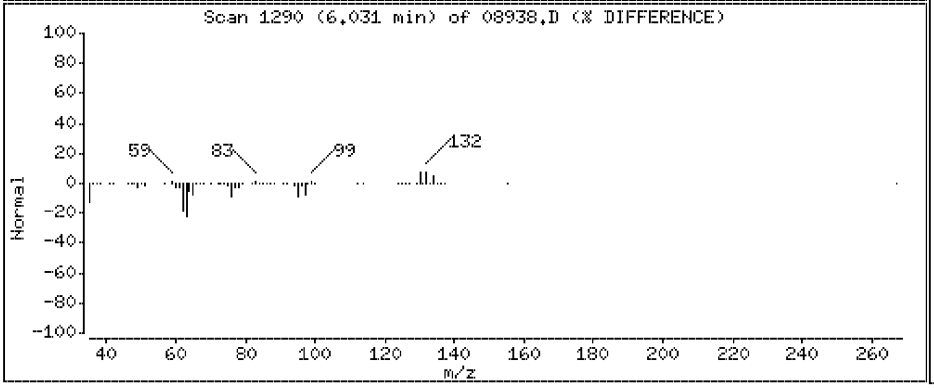
51 Trichloroethene

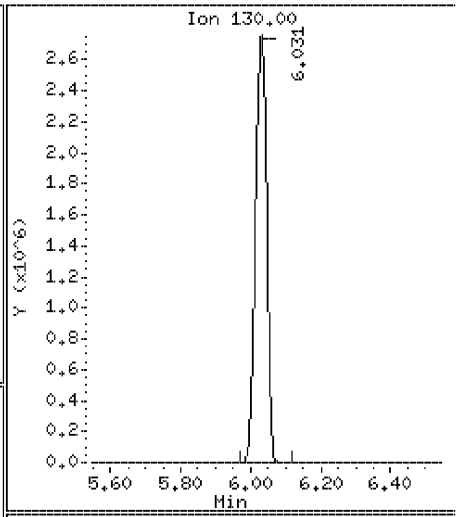
Concentration: 8030 ppbv

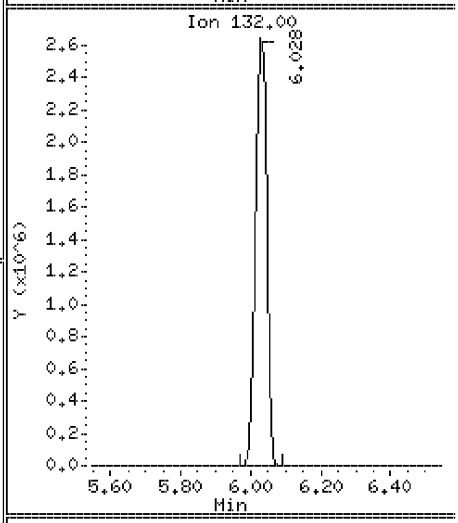


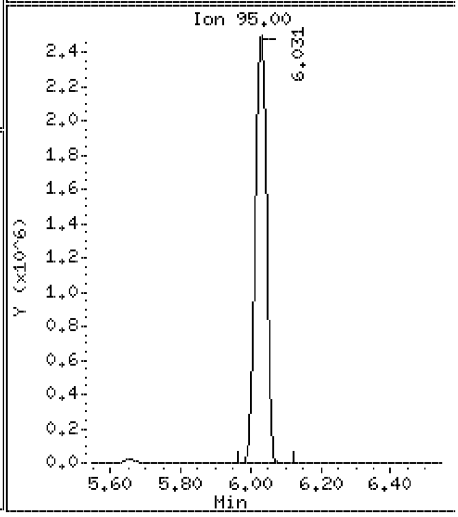












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08938.D

Date : 31-MAR-2017 06:30

Client ID:

Instrument: 10airB.i

Sample Info:

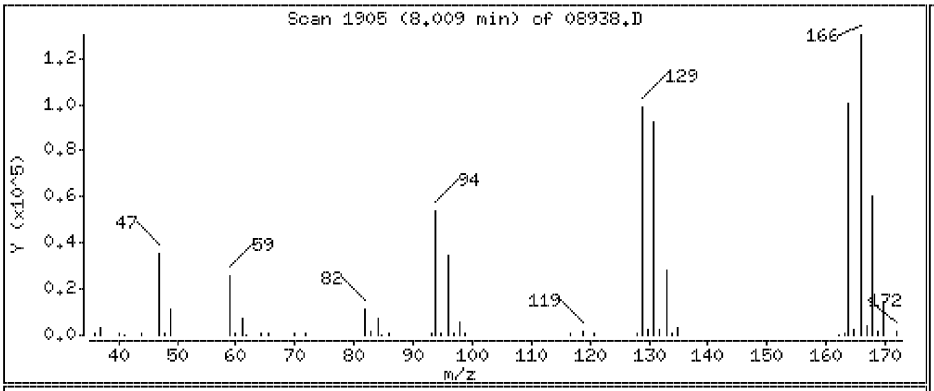
Operator: NCK

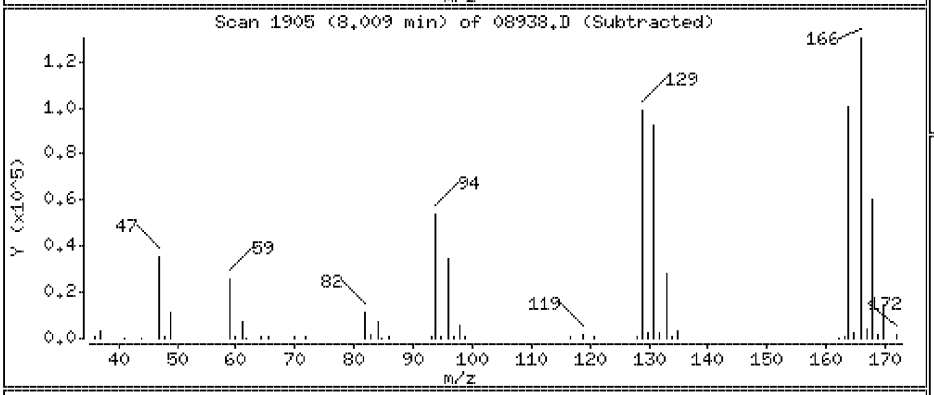
Column phase: J&W DB-5

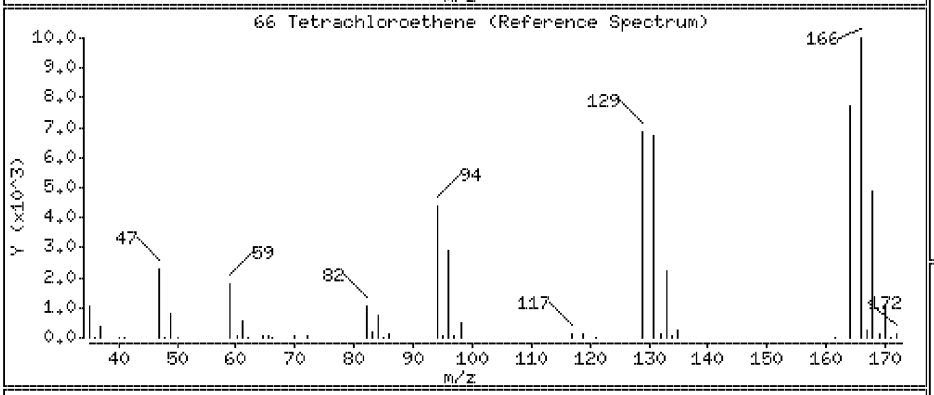
Column diameter: 0.32

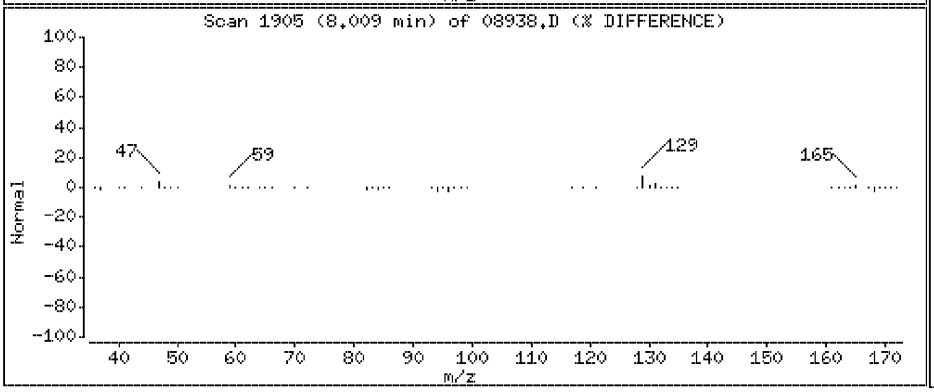
66 Tetrachloroethene

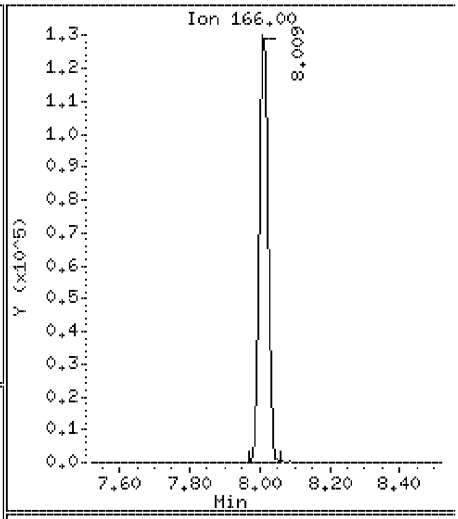
Concentration: 222 ppbv

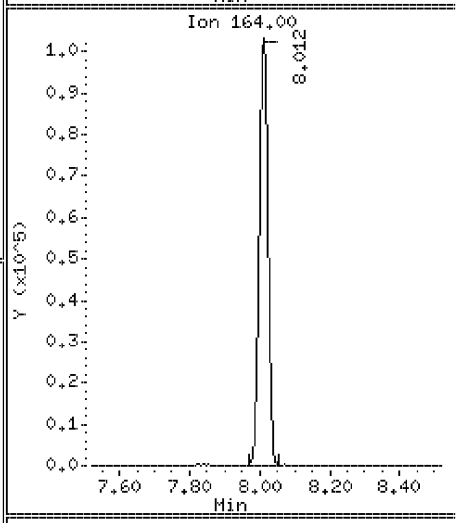


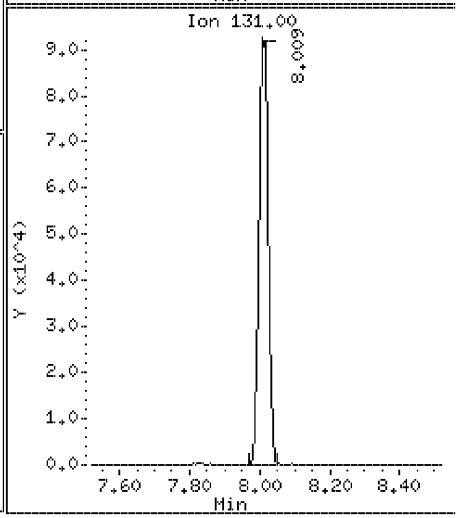






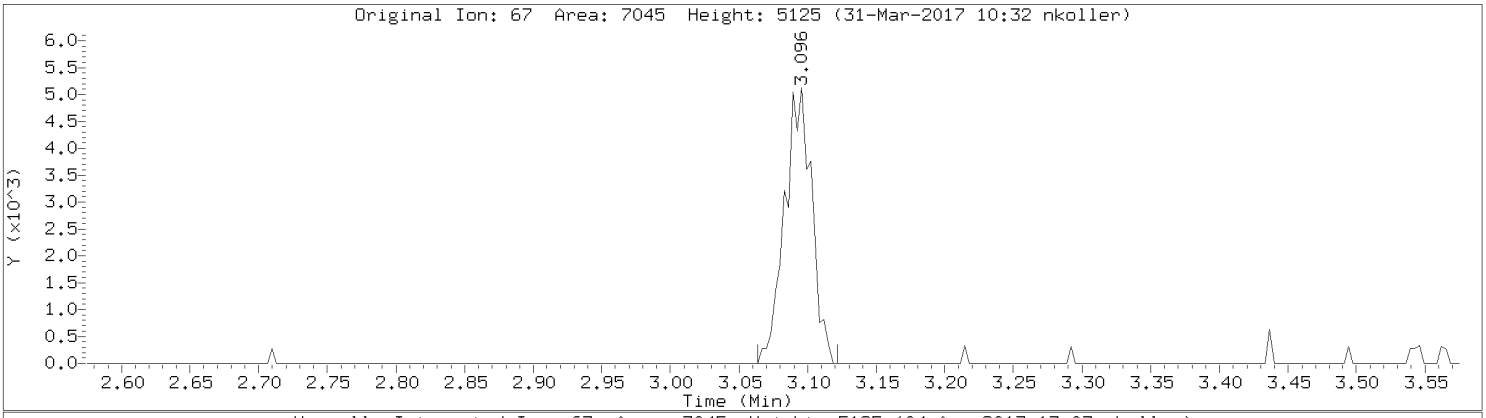


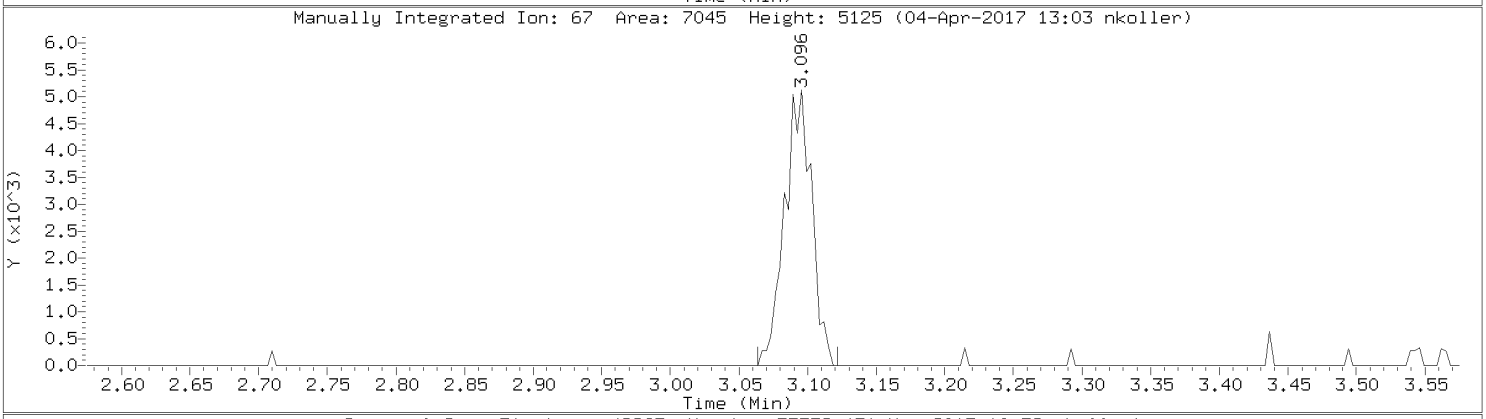


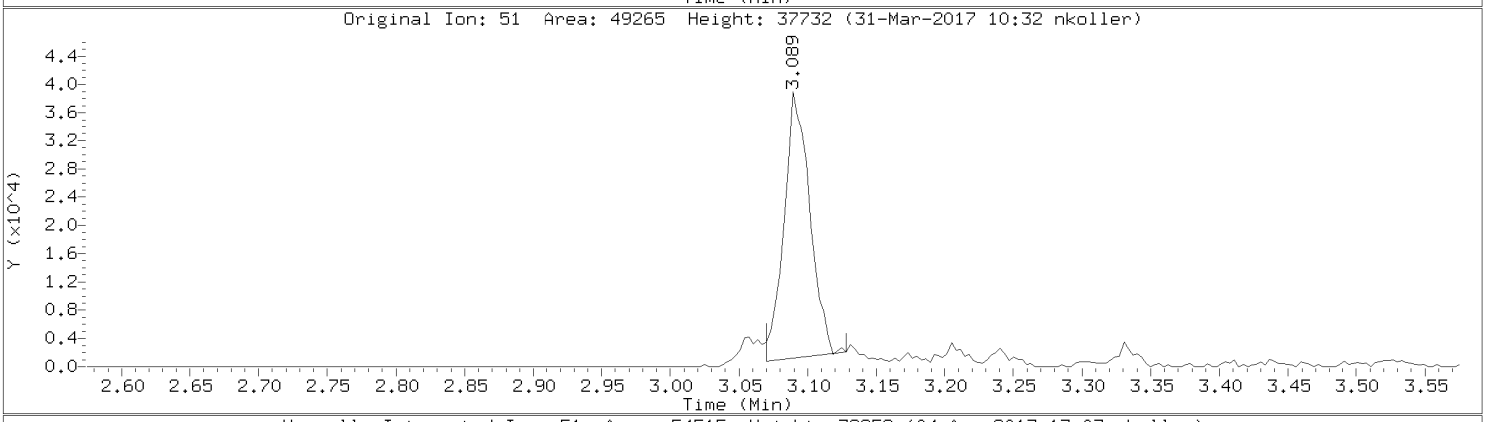


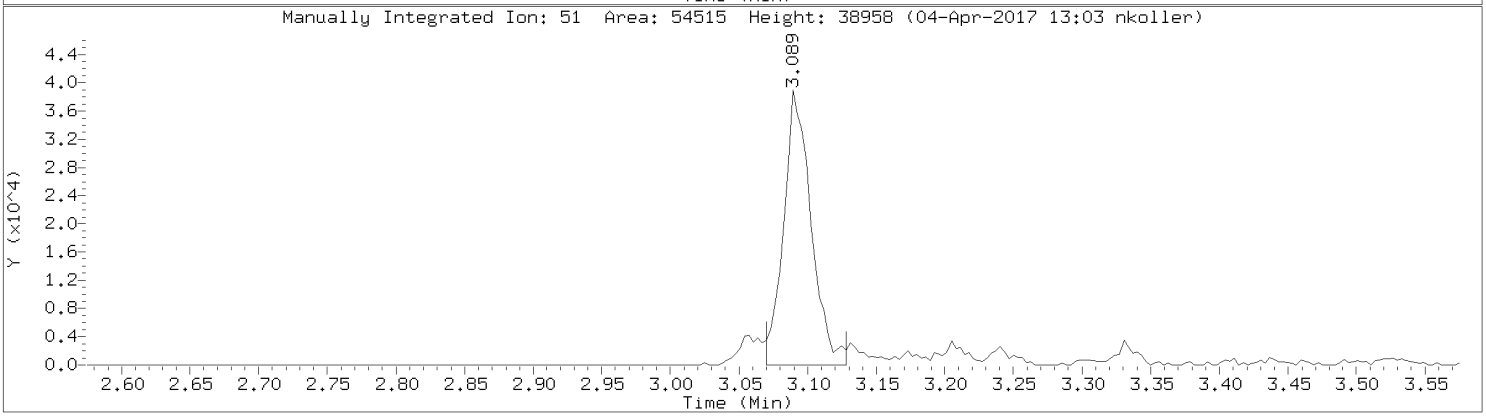
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08938.D
Injection Date: 31-MAR-2017 06:30
Instrument: 10airB.i
Lab Sample ID: 10381335007

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

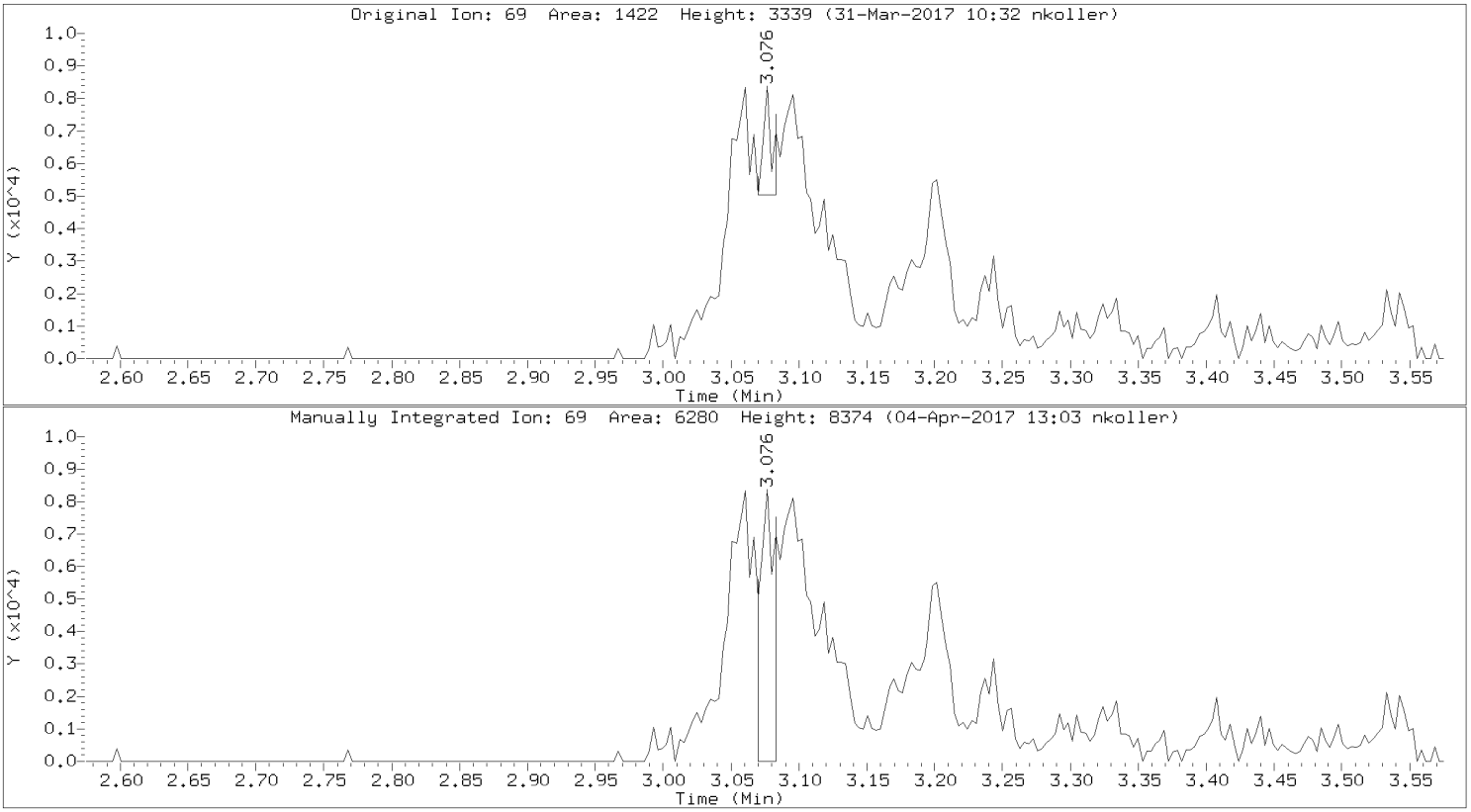








Data File: \\192.168.10.12\chem\10airB.i\033017.b/08938.D
Injection Date: 31-MAR-2017 06:30
Instrument: 10airB.i
Lab Sample ID: 10381335007



Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D
Report Date: 04-Apr-2017 13:02

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040317.b\09334.D
Lab Smp Id: 10381335007
Inj Date : 04-APR-2017 03:31
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28049
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040317.b\TO15_090-17.m
Meth Date : 04-Apr-2017 10:05 nkoller Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 34
Dil Factor: 292.80000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	292.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.021	3.021	(0.540)	3197	0.22417	65.6(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.935	3.951	(0.703)	9774	0.11673	34.2	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D
Report Date: 04-Apr-2017 13:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	4.111	4.021	(0.734)	918	0.06668	19.5(Q)	
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.491	(0.800)	765945	9.98883	9.99	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.693	4.729	(0.838)	29731	0.67510	198(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.809	4.844	(0.859)	9919	0.12040	35.3	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.616	(1.000)	2032575	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.976	5.992	(1.067)	3280694	39.7942	11700(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.079	(1.262)	1613707	9.47606	9.48	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.989	(0.924)	101680	1.02270	299	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	1122850	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D
Report Date: 04-Apr-2017 13:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	398146	7.84740	7.85
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D
Report Date: 04-Apr-2017 13:02

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09334.D
Lab Smp Id: 10381335007
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\040317.b\TO15_090-17.m
Misc Info: 28049

Calibration Date: 03-APR-2017
Calibration Time: 10:12
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

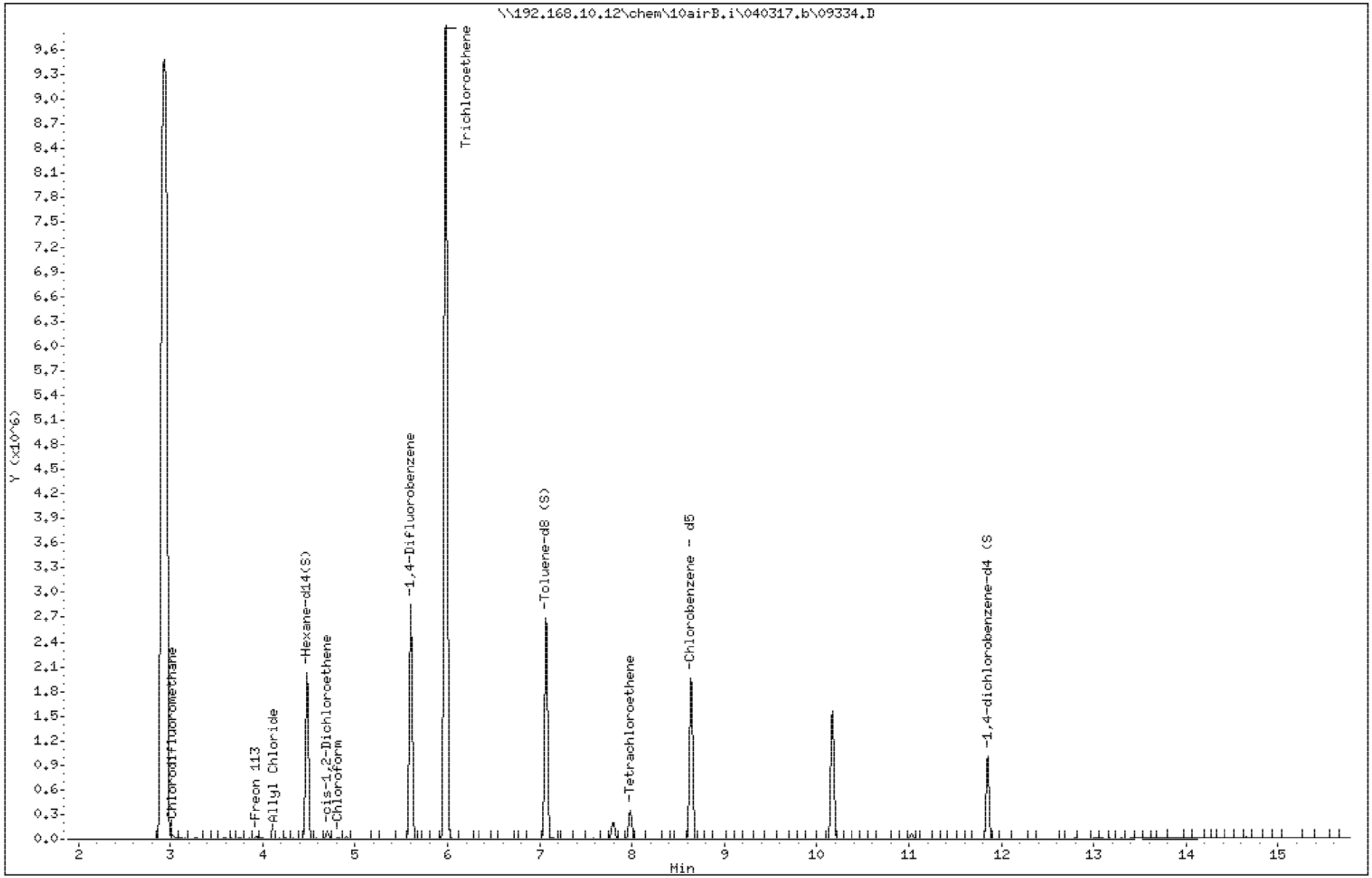
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	2032575	4.95
67 Chlorobenzene - d	1173864	704318	1643410	1122850	-4.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D
Date : 04-APR-2017 03:31
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D

Date : 04-APR-2017 03:31

Client ID:

Instrument: 10airB.i

Sample Info:

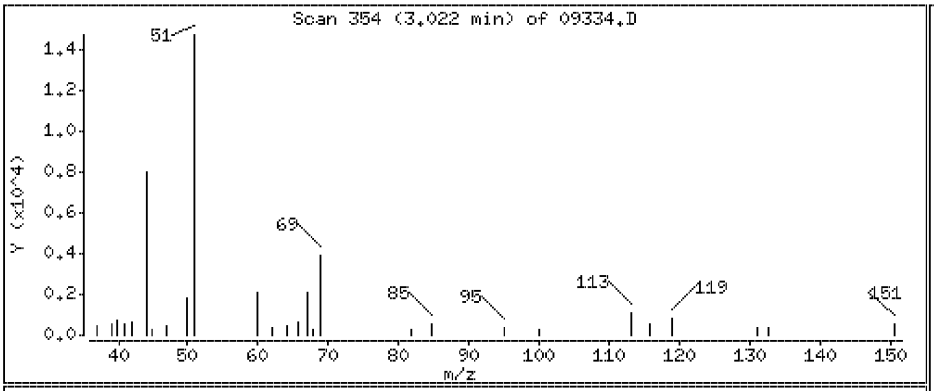
Operator: NCK

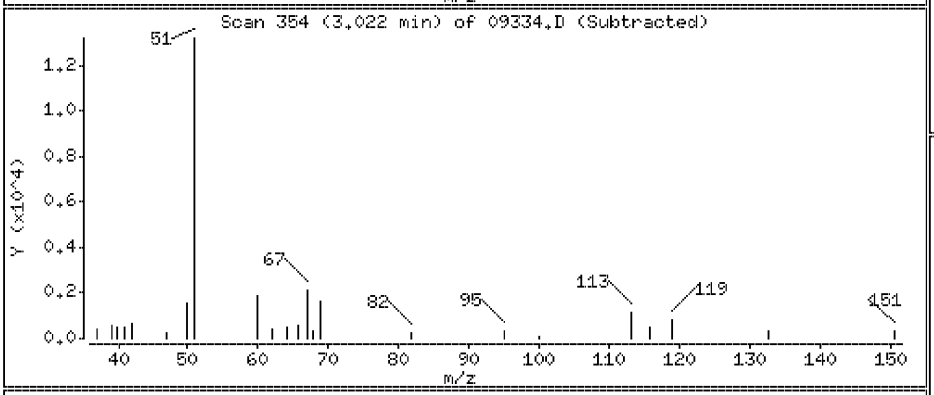
Column phase: J&W DB-5

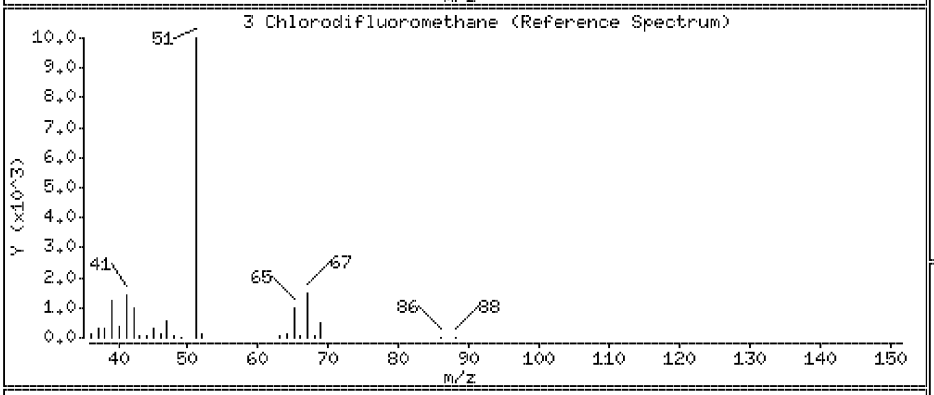
Column diameter: 0.32

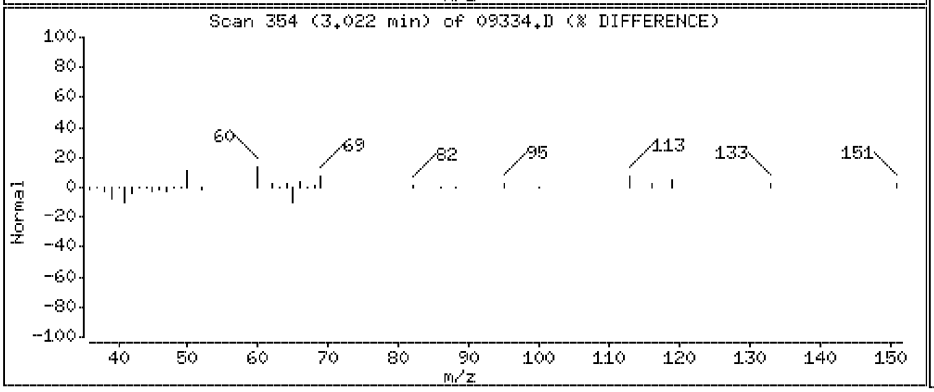
3 Chlorodifluoromethane

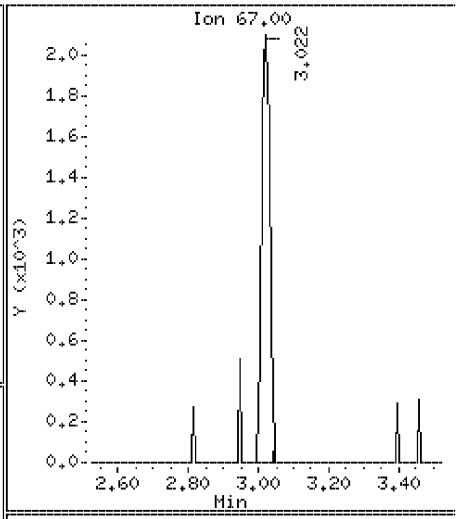
Concentration: 65.6 ppbv

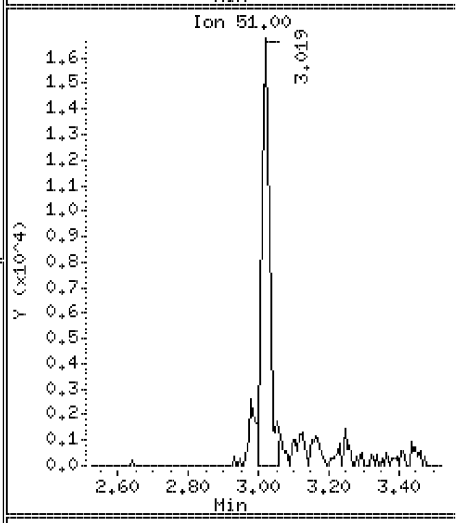


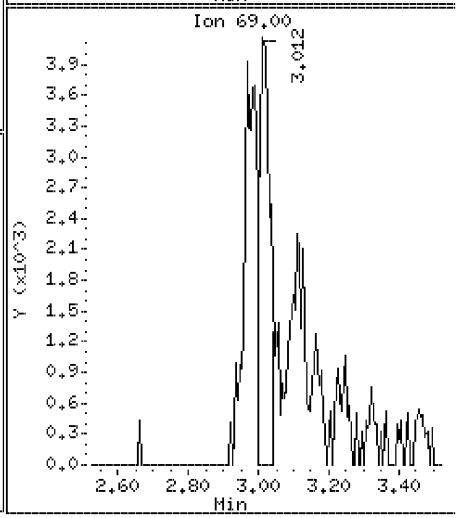












Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D

Date : 04-APR-2017 03:31

Client ID:

Instrument: 10airB.i

Sample Info:

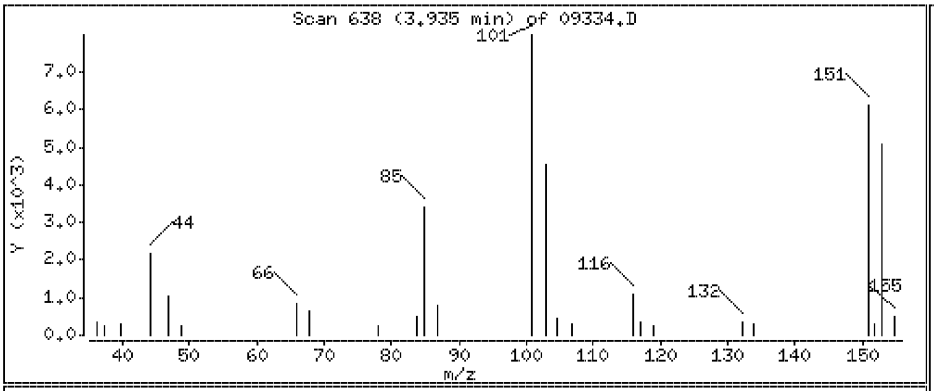
Operator: NCK

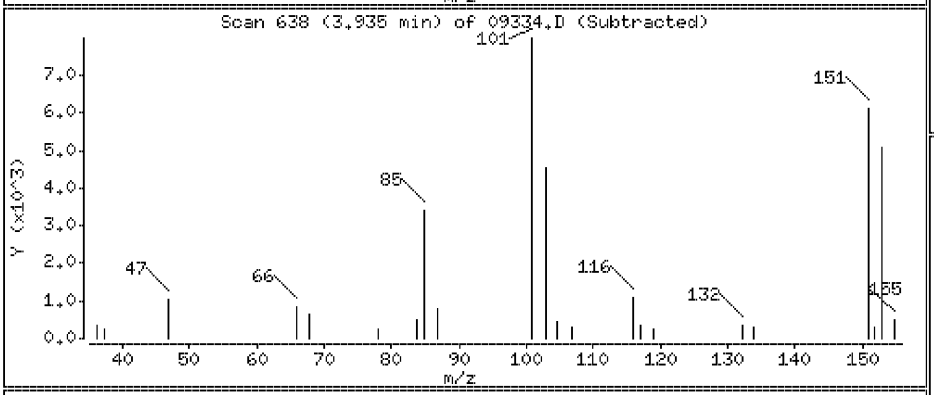
Column phase: J&W DB-5

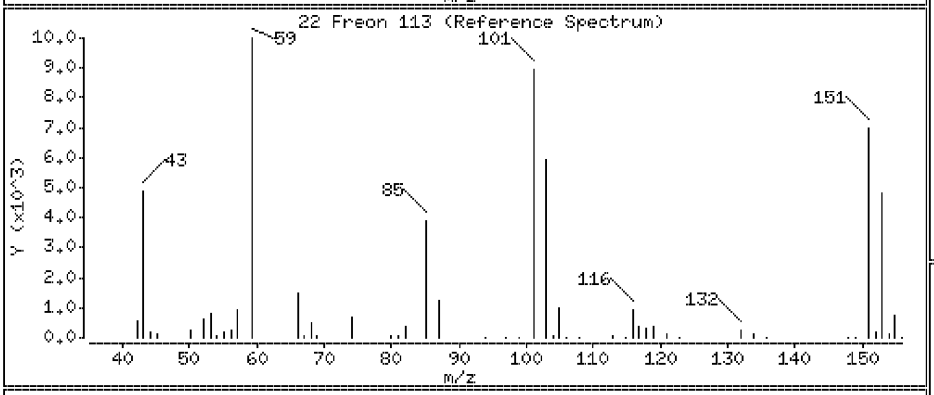
Column diameter: 0.32

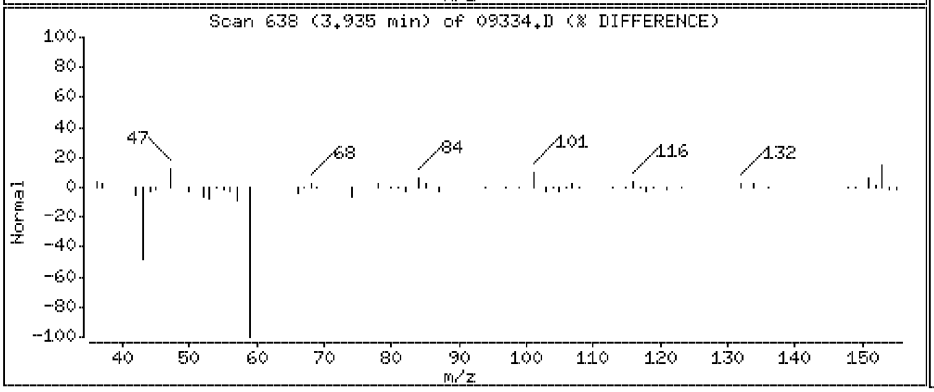
22 Freon 113

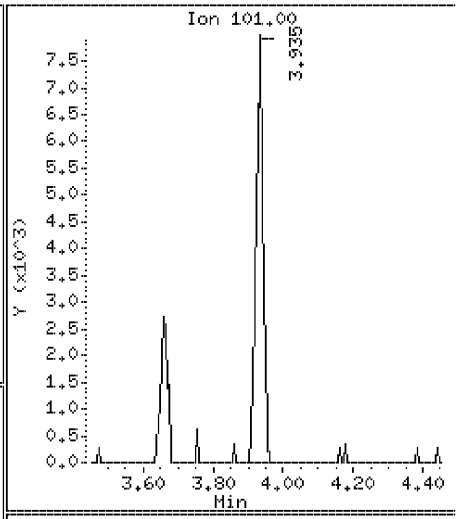
Concentration: 34.2 ppbv

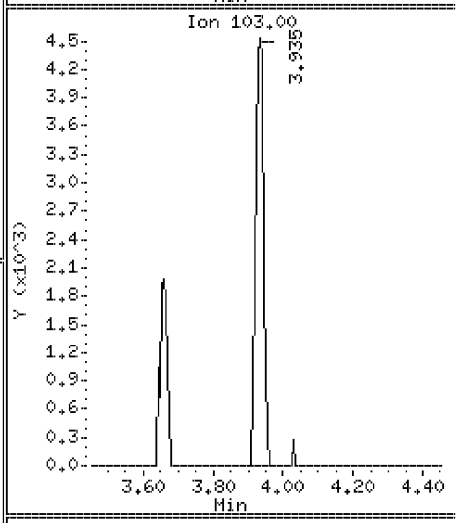


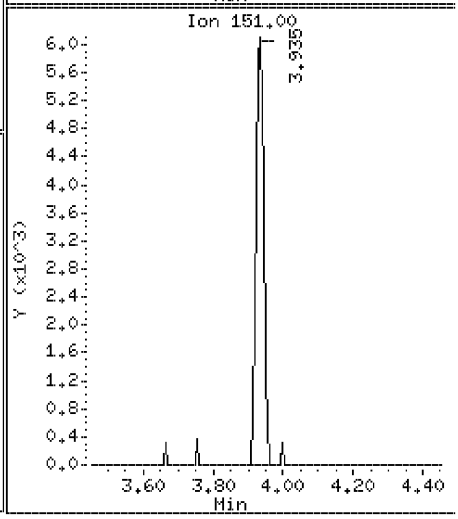












Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D

Date : 04-APR-2017 03:31

Client ID:

Instrument: 10airB.i

Sample Info:

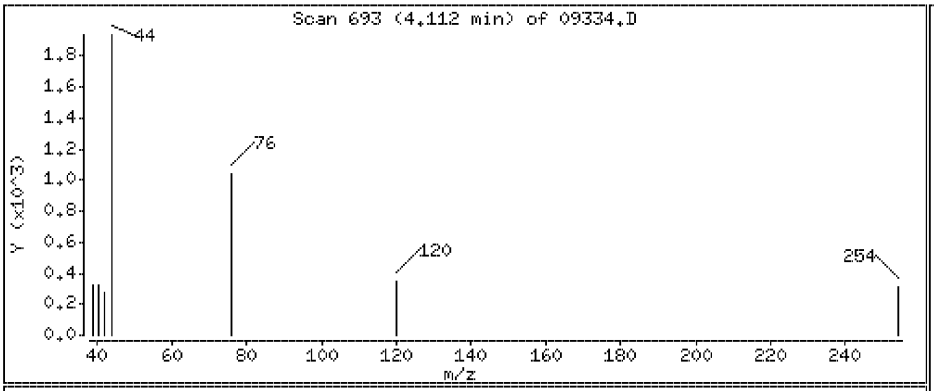
Operator: NCK

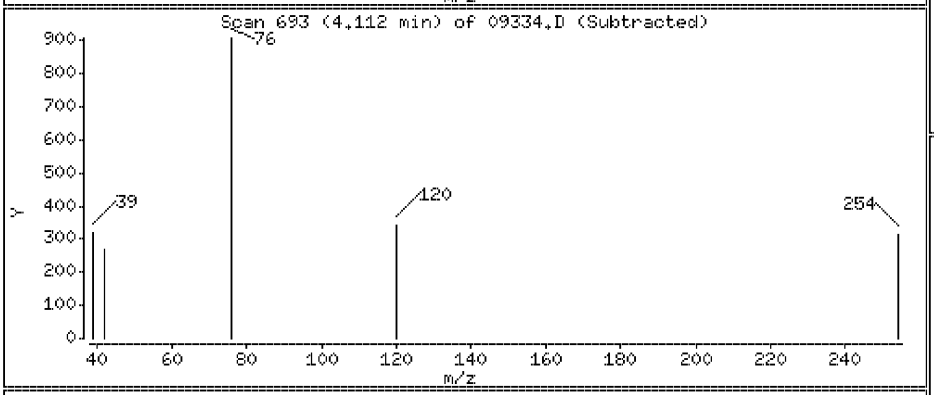
Column phase: J&W DB-5

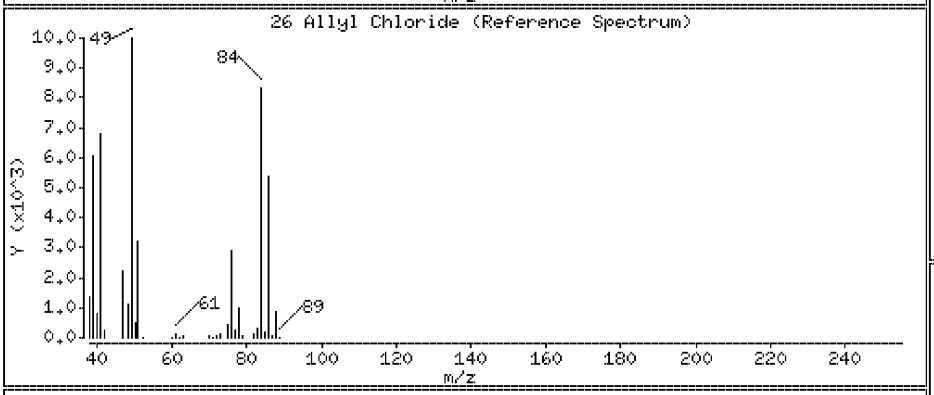
Column diameter: 0.32

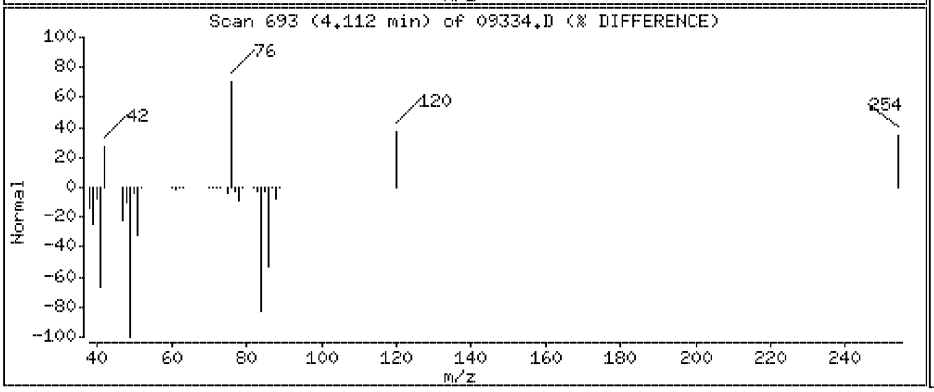
26 Allyl Chloride

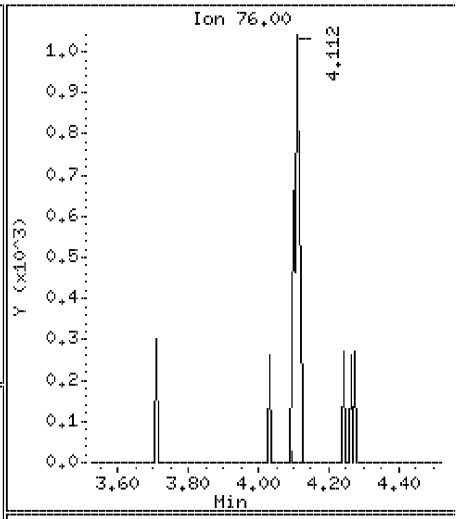
Concentration: 19.5 ppbv

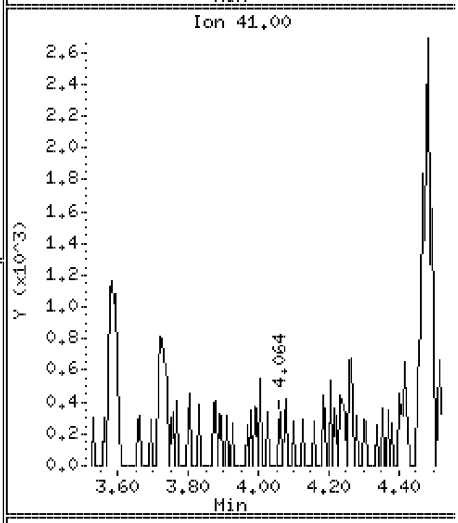


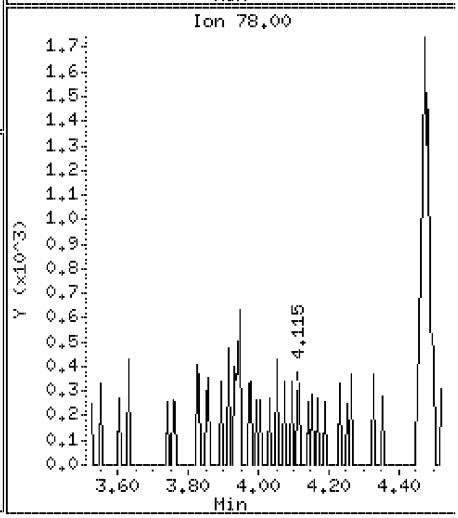












Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D

Date : 04-APR-2017 03:31

Client ID:

Instrument: 10airB.i

Sample Info:

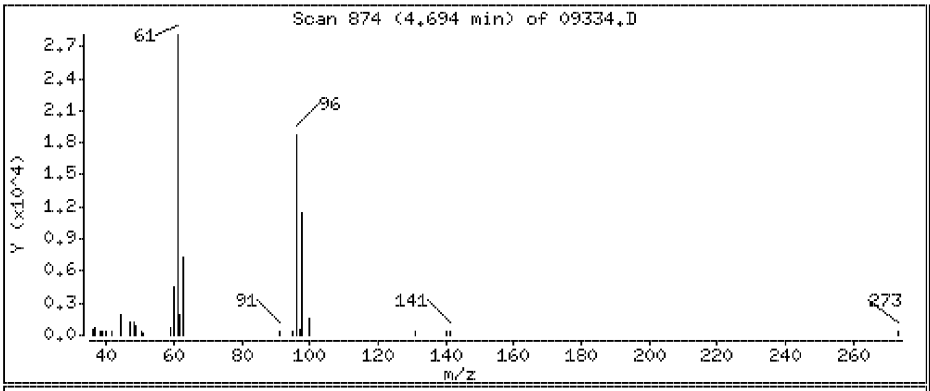
Operator: NCK

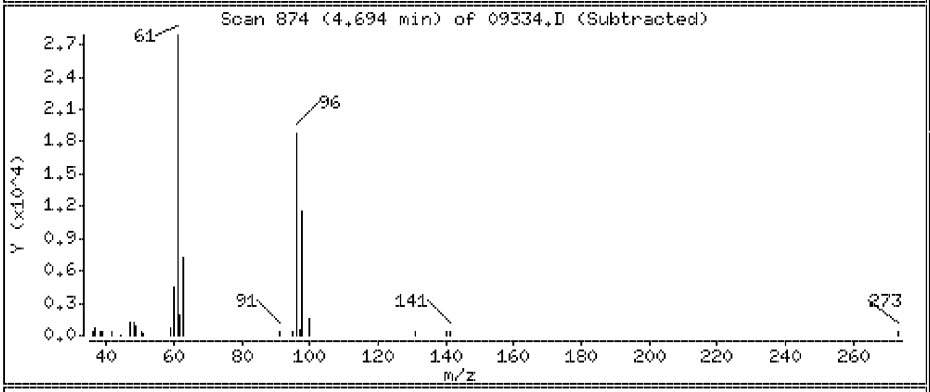
Column phase: J&W DB-5

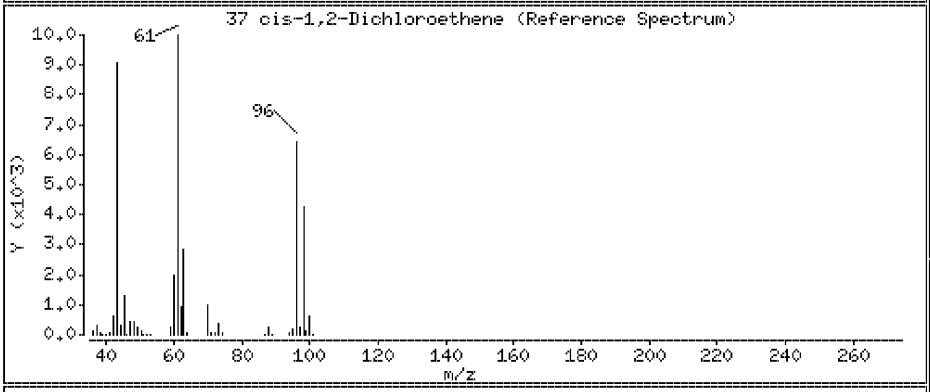
Column diameter: 0.32

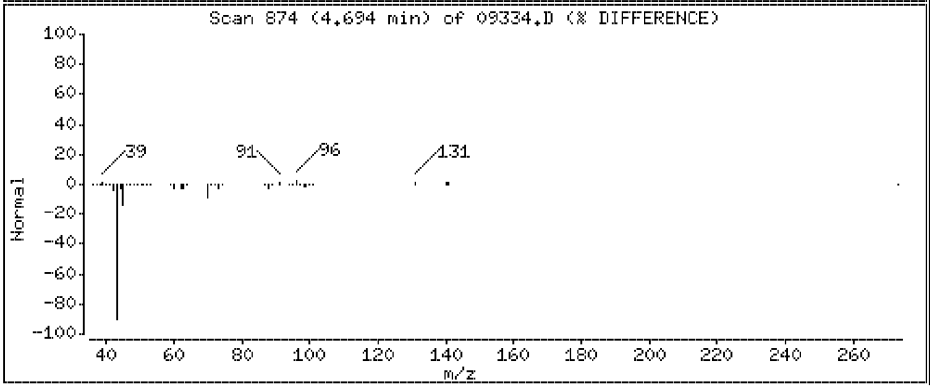
37 cis-1,2-Dichloroethene

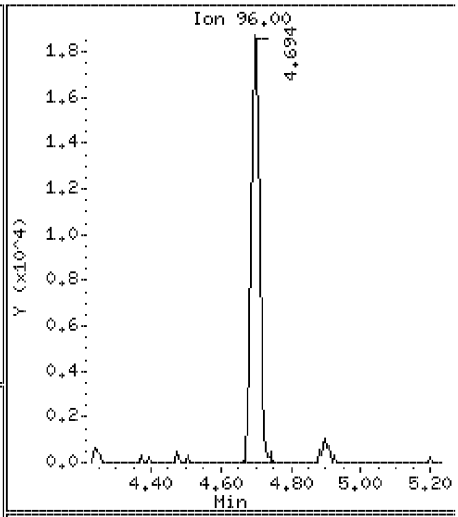
Concentration: 198 ppbv

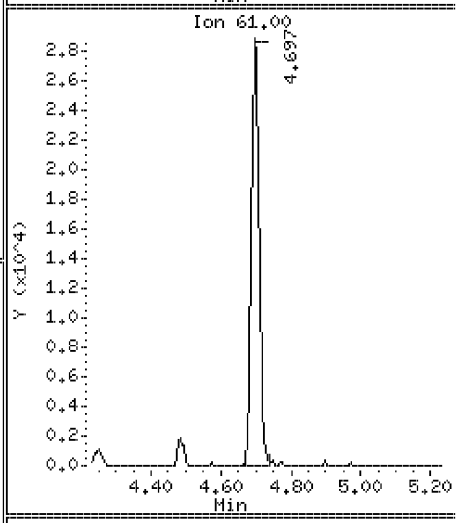


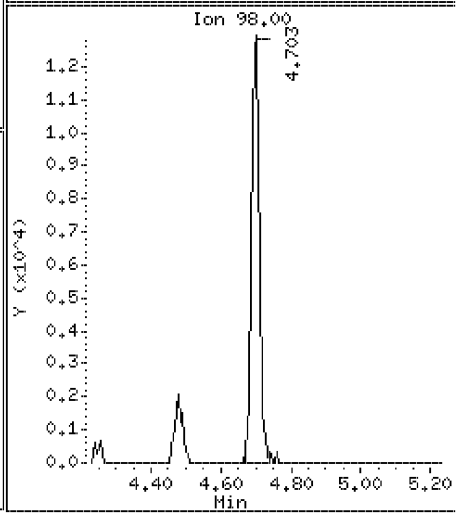












Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D

Date : 04-APR-2017 03:31

Client ID:

Instrument: 10airB.i

Sample Info:

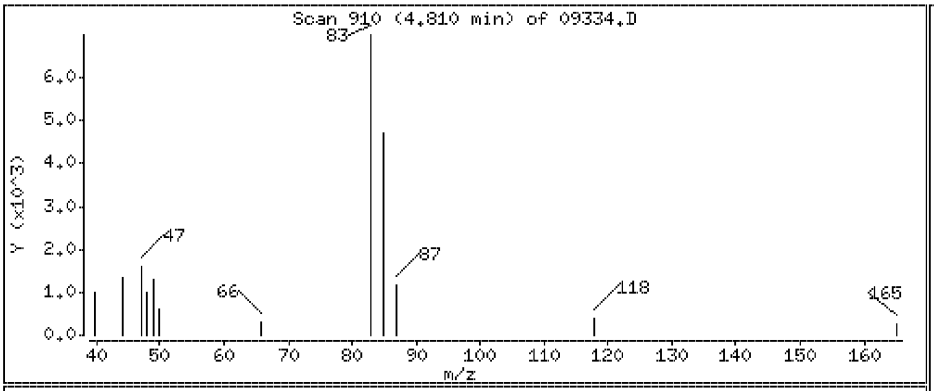
Operator: NCK

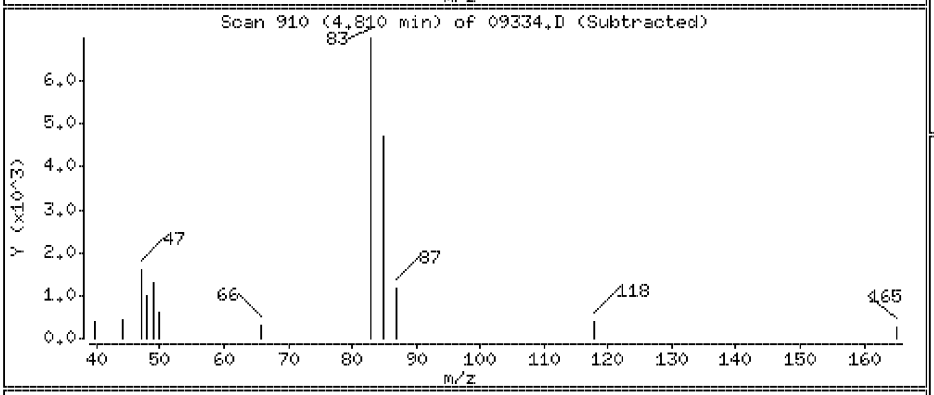
Column phase: J&W DB-5

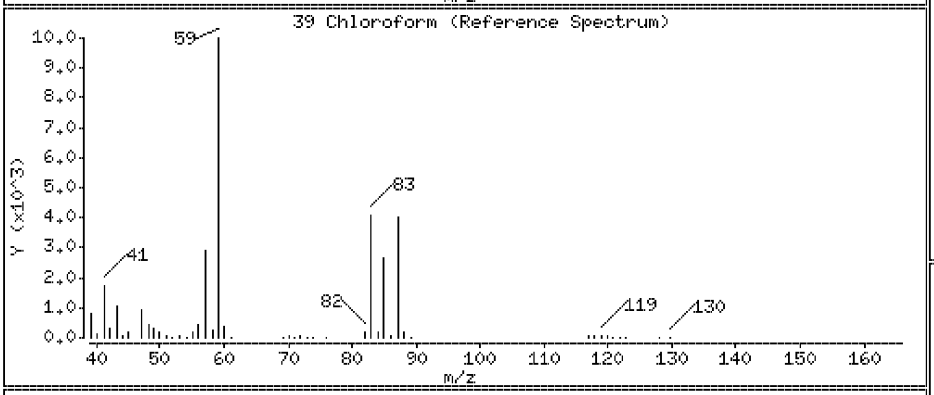
Column diameter: 0.32

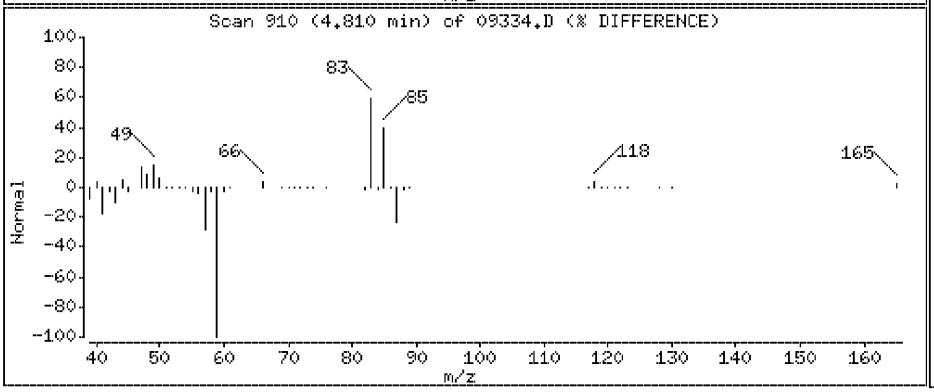
39 Chloroform

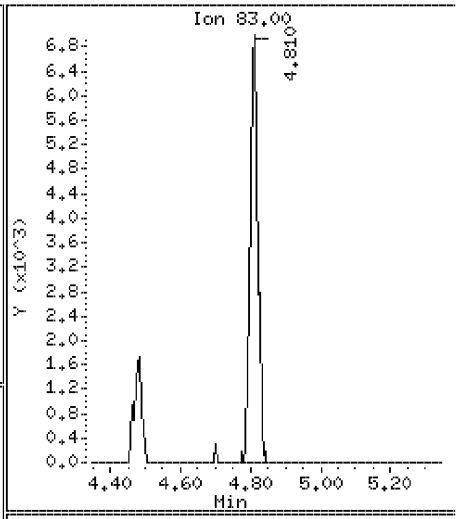
Concentration: 35.3 ppbv

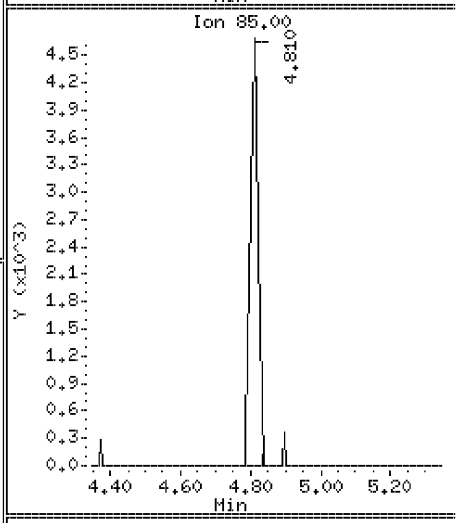


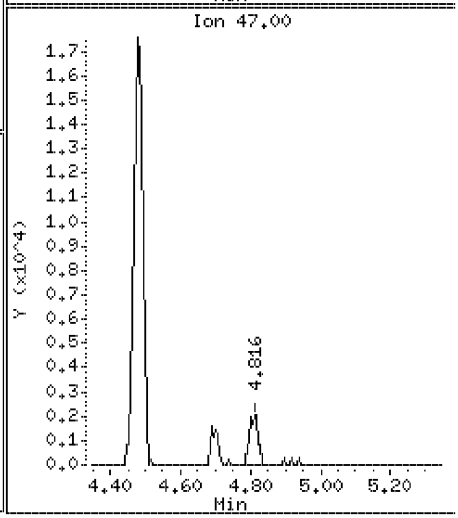












Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D

Date : 04-APR-2017 03:31

Client ID:

Instrument: 10airB.i

Sample Info:

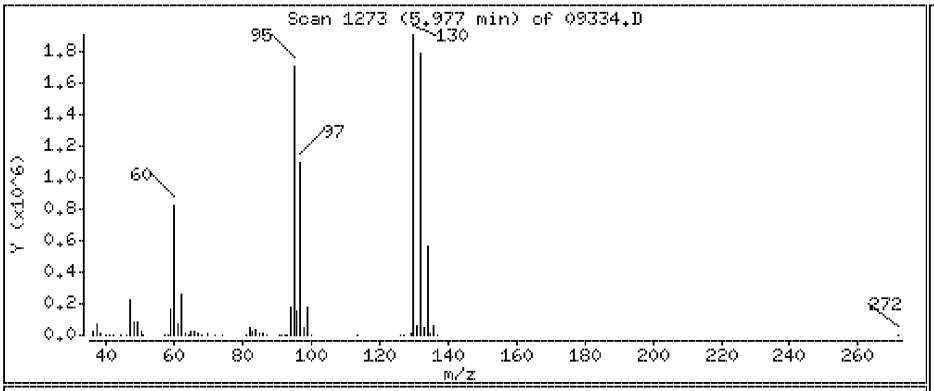
Operator: NCK

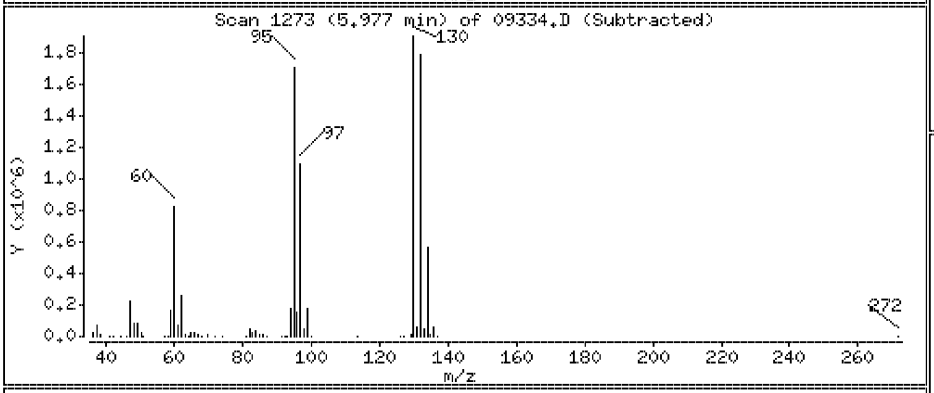
Column phase: J&W DB-5

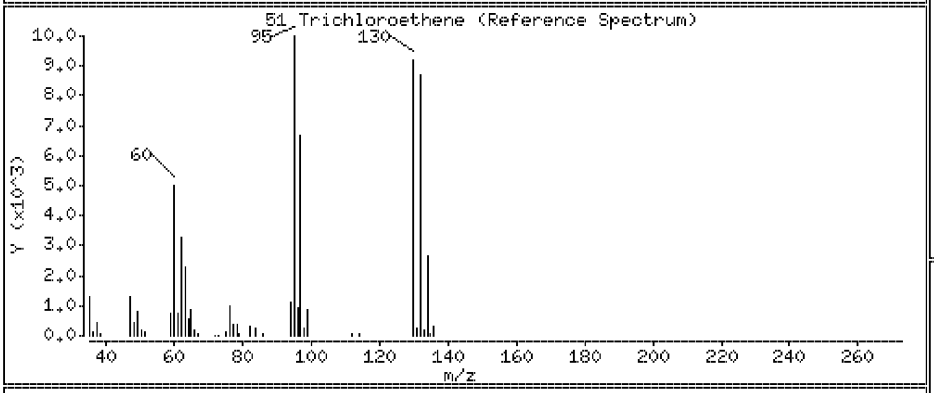
Column diameter: 0.32

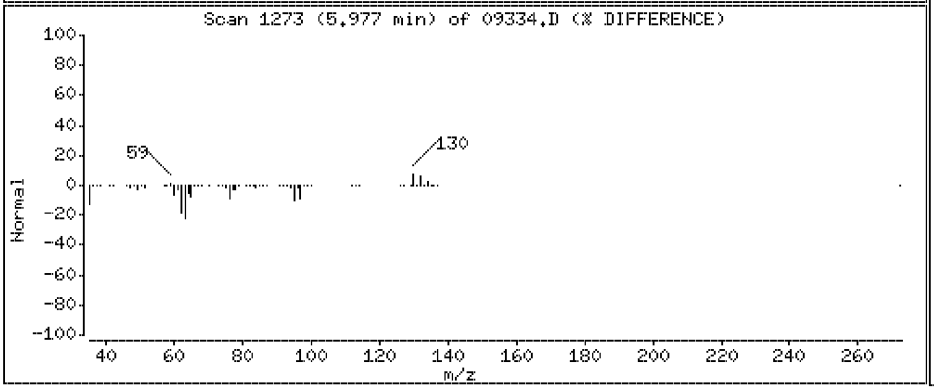
51 Trichloroethene

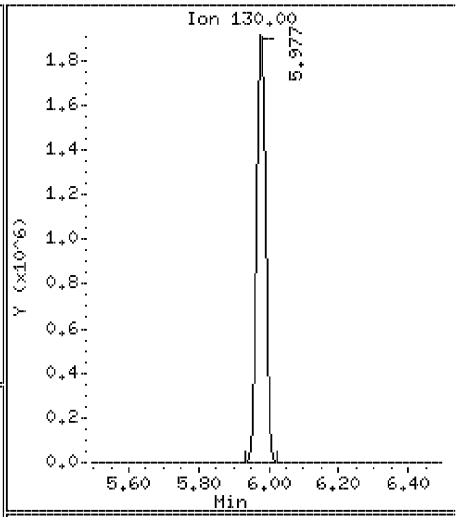
Concentration: 11700 ppbv

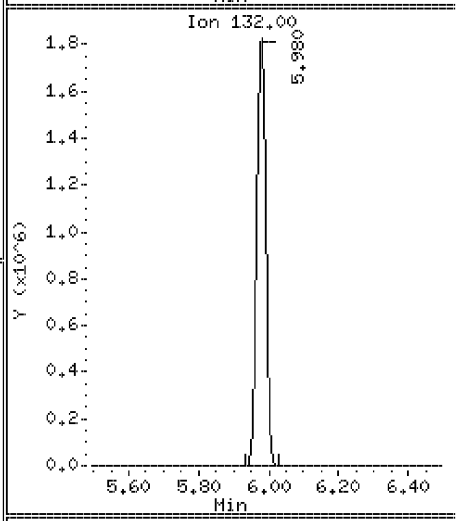


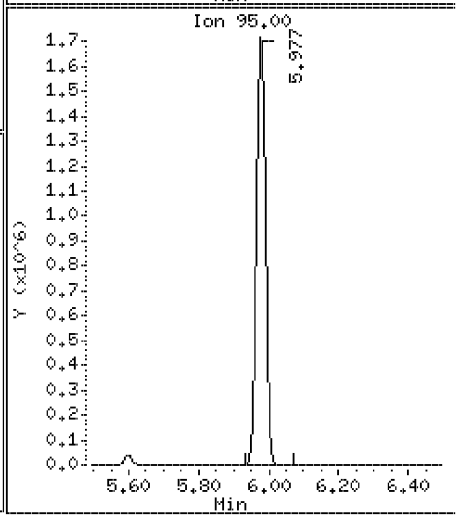












Data File: \\192.168.10.12\chem\10airB.i\040317.b\09334.D

Date : 04-APR-2017 03:31

Client ID:

Instrument: 10airB.i

Sample Info:

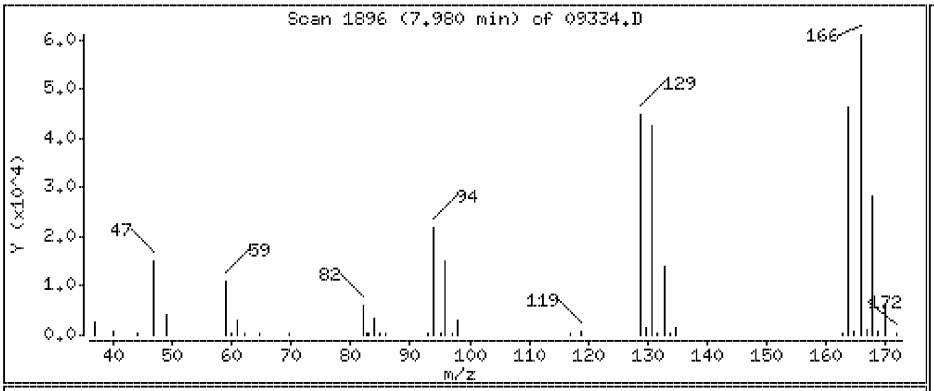
Operator: NCK

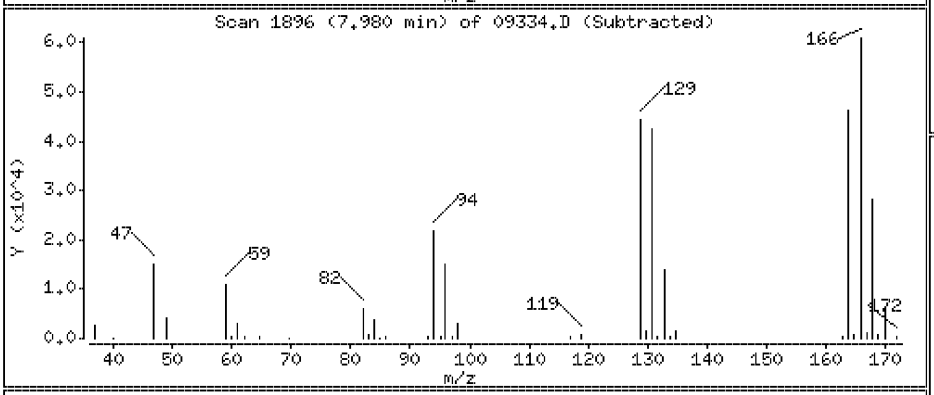
Column phase: J&W DB-5

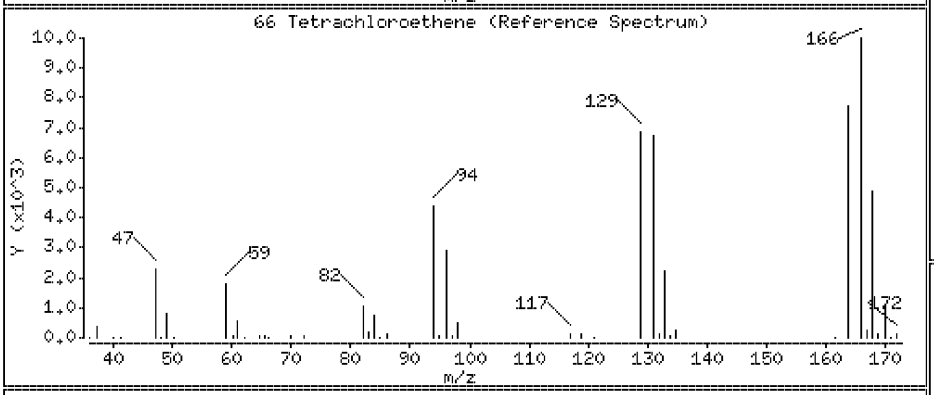
Column diameter: 0.32

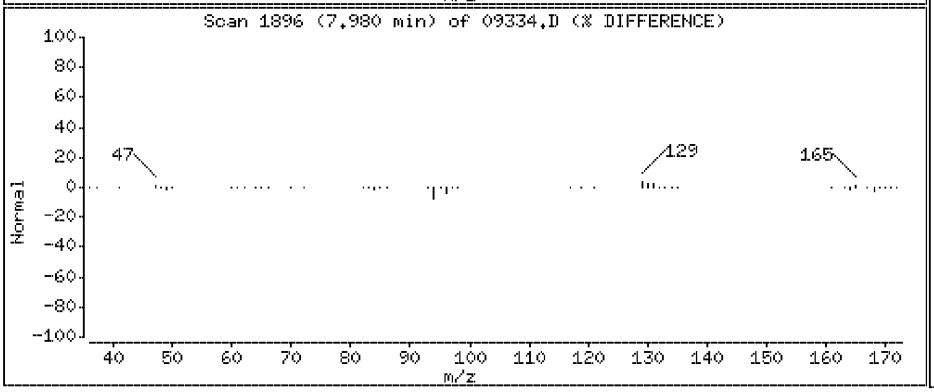
66 Tetrachloroethene

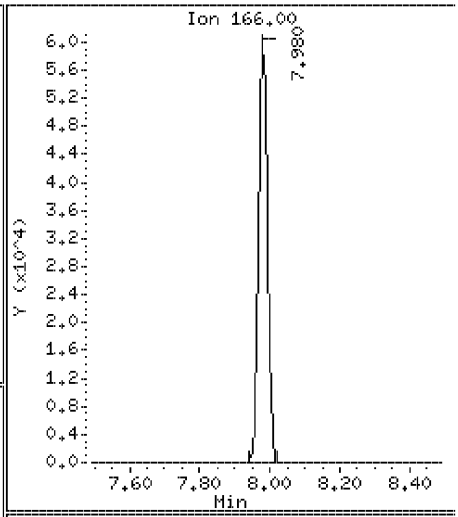
Concentration: 299 ppbv

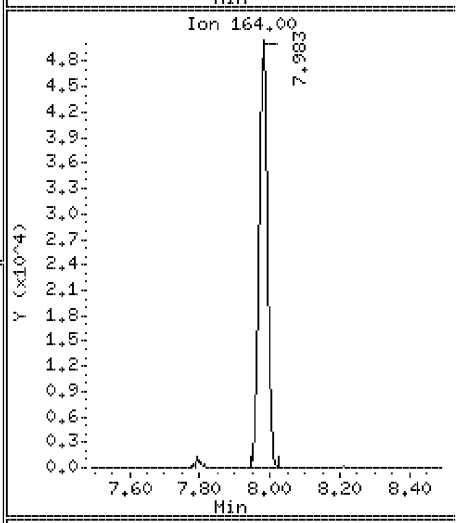


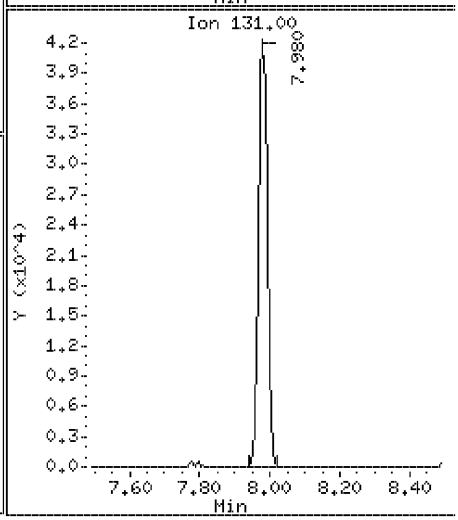






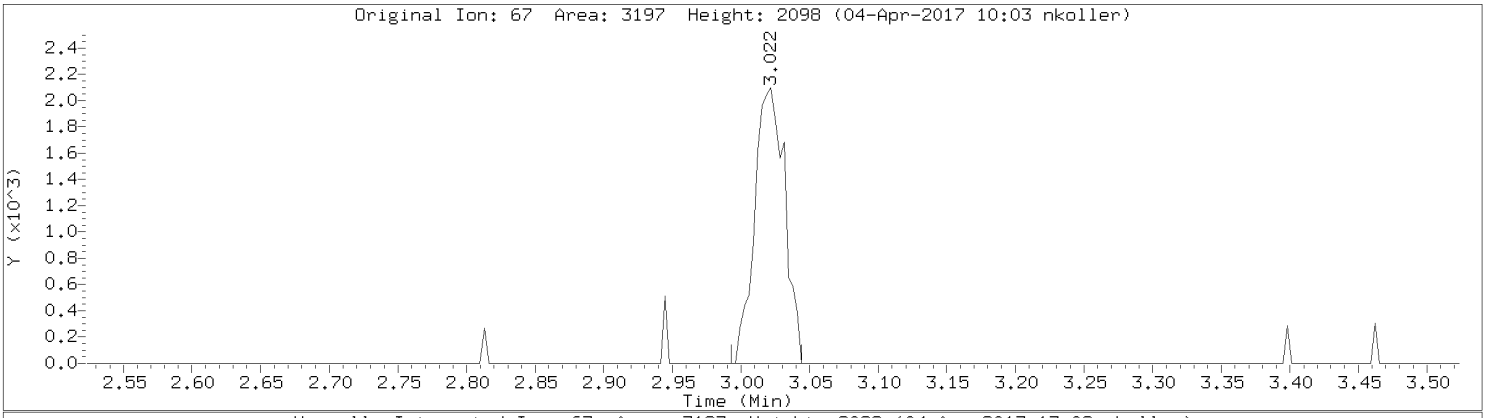


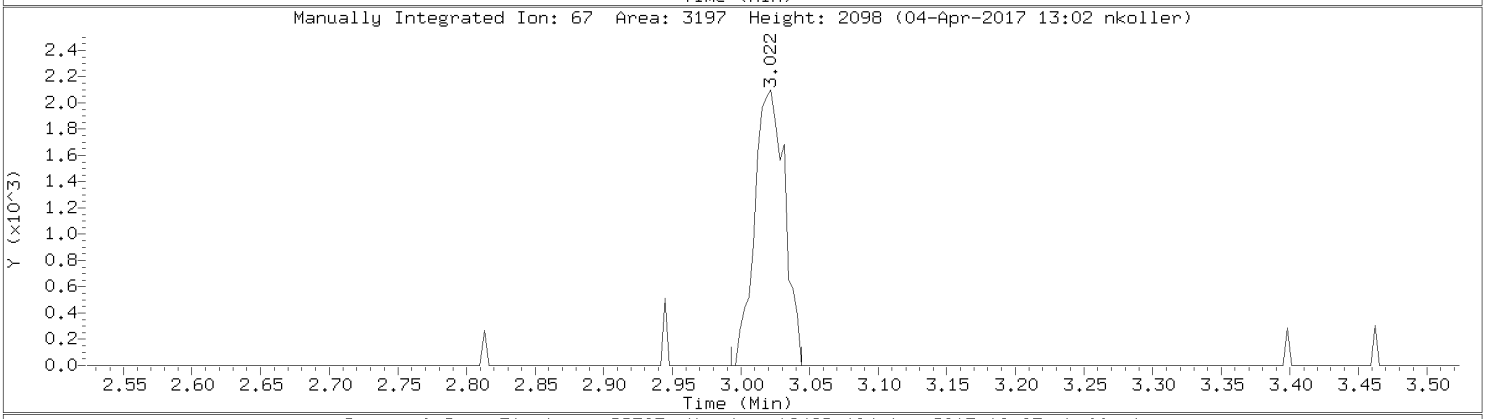


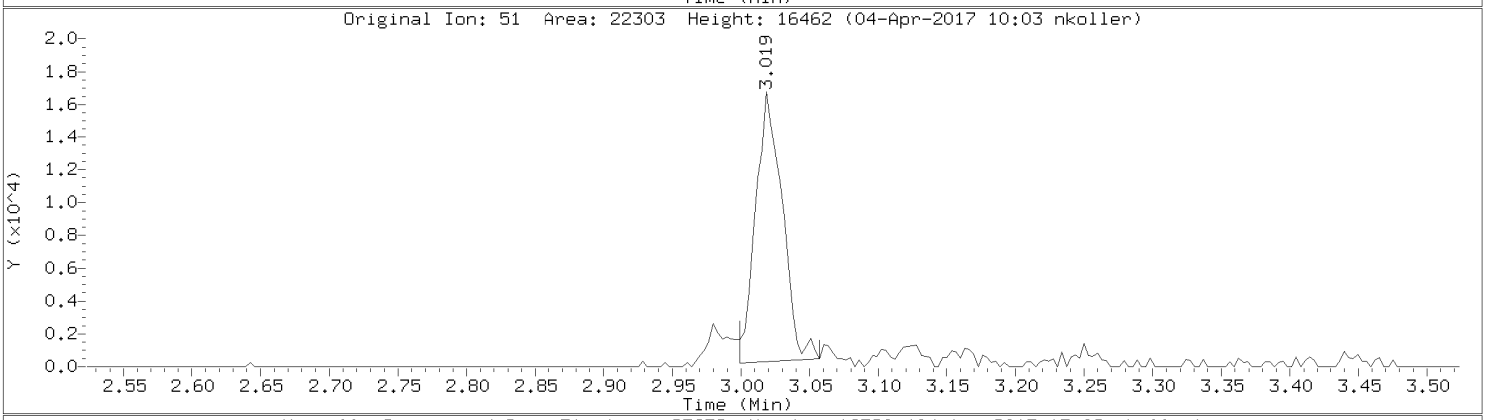


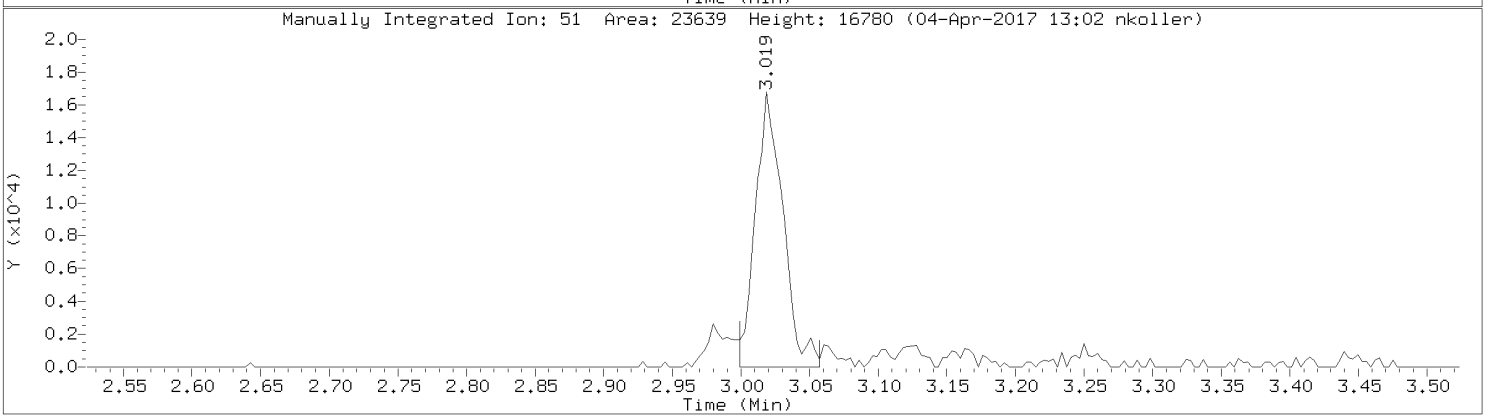
Data File: \\192.168.10.12\chem\10airB.i\040317.b/09334.D
Injection Date: 04-APR-2017 03:31
Instrument: 10airB.i
Lab Sample ID: 10381335007

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

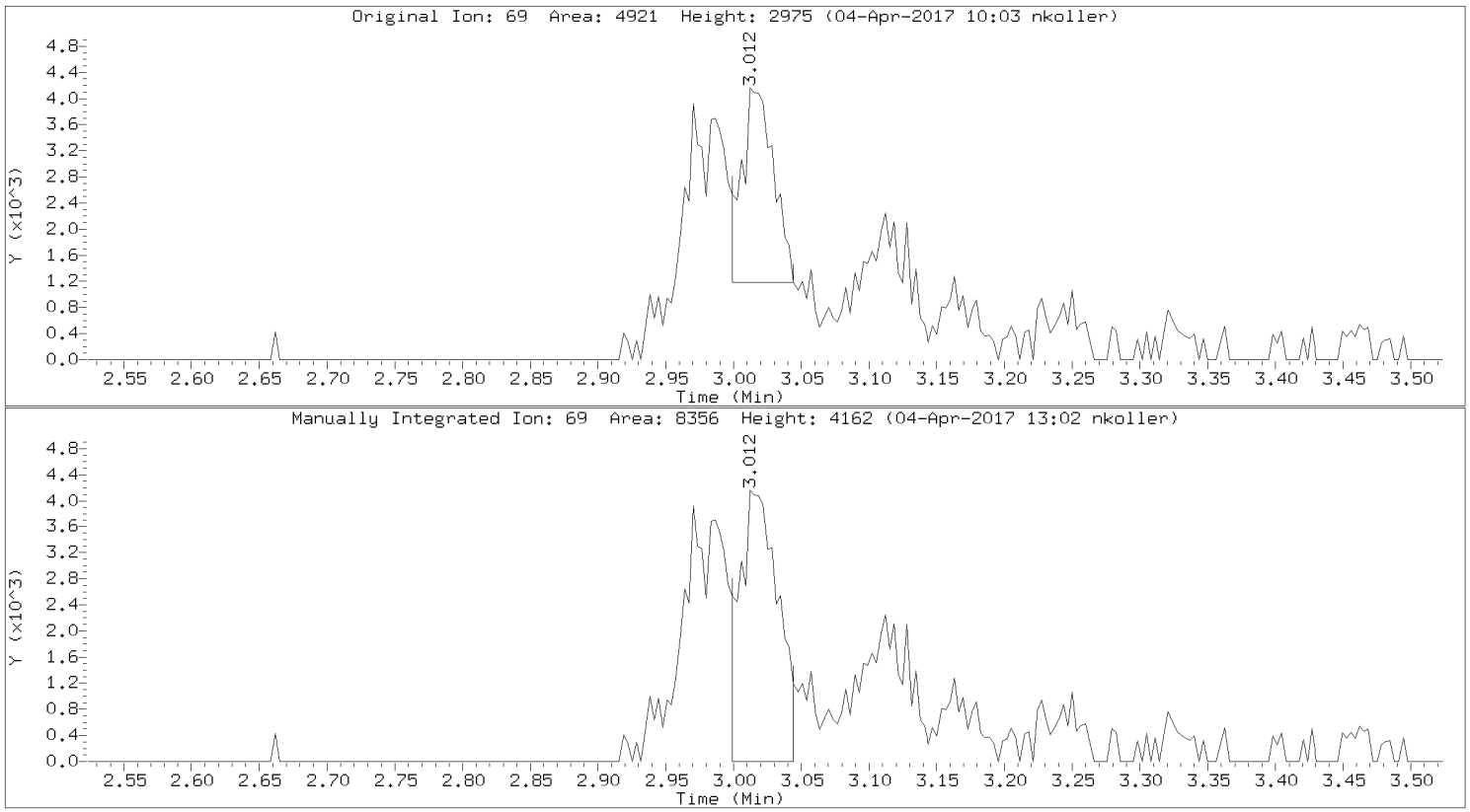








Data File: \\192.168.10.12\chem\10airB.i\040317.b/09334.D
Injection Date: 04-APR-2017 03:31
Instrument: 10airB.i
Lab Sample ID: 10381335007



Data File: \\192.168.10.12\chem\10airB.i\040417.b\09410.D
Report Date: 04-Apr-2017 13:50

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040417.b\09410.D
Lab Smp Id: 10381335007
Inj Date : 04-APR-2017 13:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28049
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040417.b\TO15_090-17.m
Meth Date : 04-Apr-2017 12:31 nkoller Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 10
Dil Factor: 585.60000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	585.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.921	3.957	(0.701)	4613	0.06035	35.3	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09410.D
Report Date: 04-Apr-2017 13:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.475	4.491	(0.799)	697564	9.96490	9.96	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.693	4.729	(0.839)	14282	0.35524	208(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.809	4.845	(0.859)	4619	0.06142	36.0	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	1855559	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.976	5.989	(1.068)	1671111	22.2040	13000	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	1478952	9.51325	9.51	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.982	7.989	(0.924)	45977	0.50964	298	
*	67 Chlorobenzene - d5	117	8.635	8.645	(1.000)	1018844	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09410.D
Report Date: 04-Apr-2017 13:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	368842	8.01194	8.01
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09410.D
Report Date: 04-Apr-2017 13:50

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09410.D
Lab Smp Id: 10381335007
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\040417.b\TO15_090-17.m
Misc Info: 28049

Calibration Date: 04-APR-2017
Calibration Time: 09:07
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

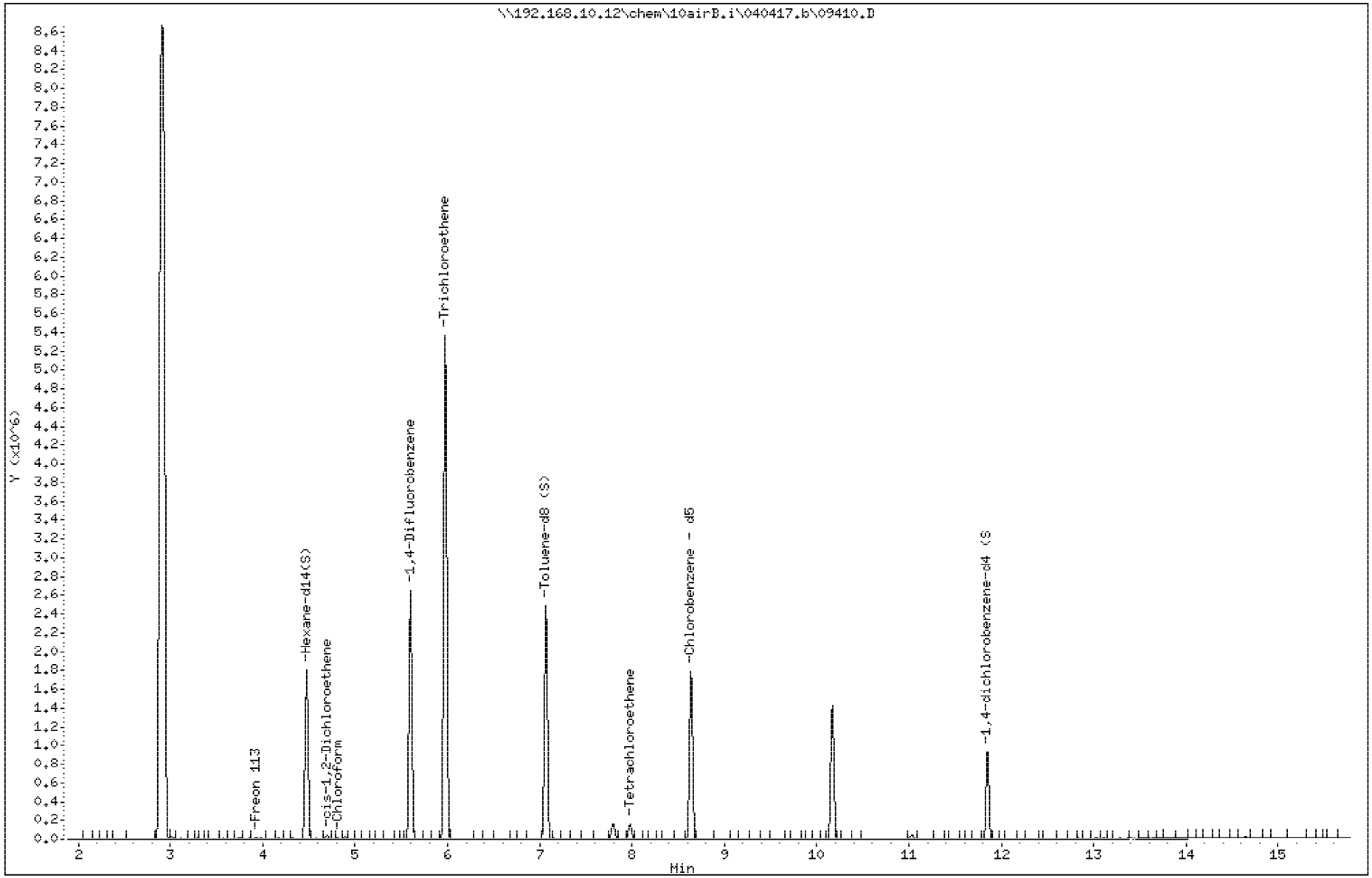
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1855559	-4.19
67 Chlorobenzene - d	1173864	704318	1643410	1018844	-13.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.11

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09410.D
Date : 04-APR-2017 13:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040417.b\09410.D

Date : 04-APR-2017 13:10

Client ID:

Instrument: 10airB.i

Sample Info:

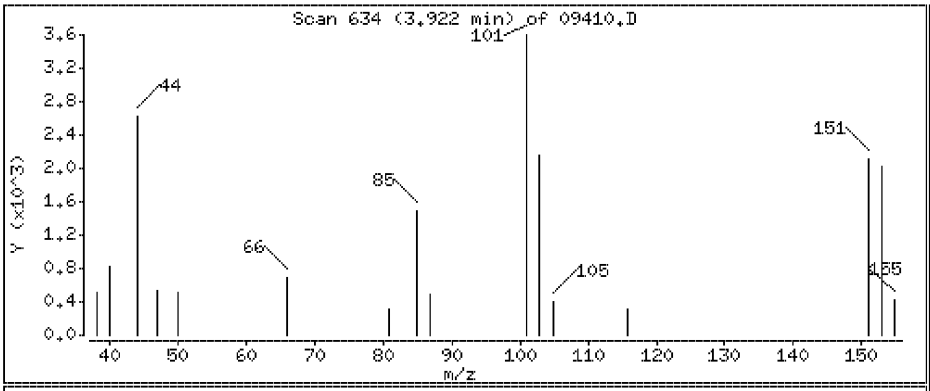
Operator: NCK

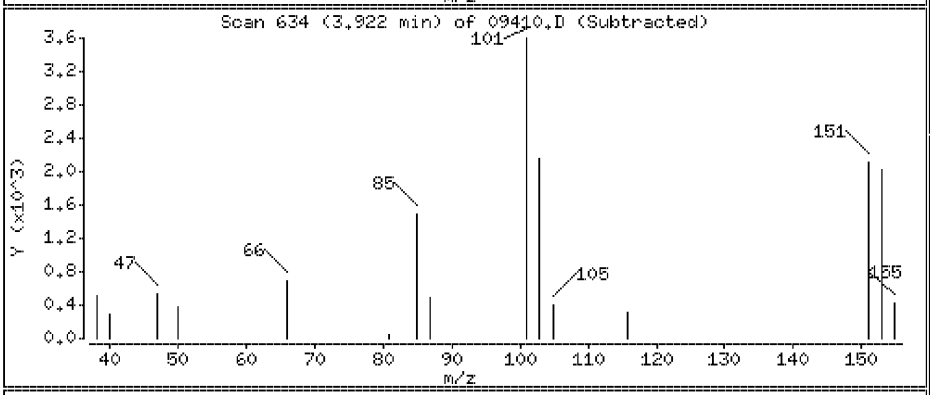
Column phase: J&W DB-5

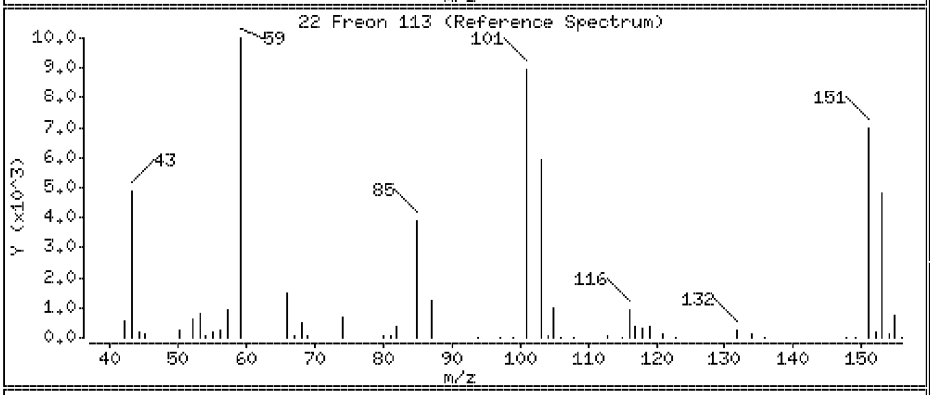
Column diameter: 0.32

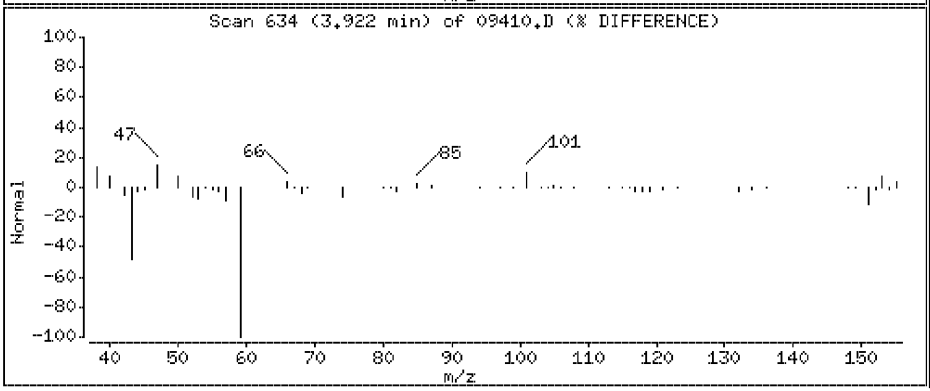
22 Freon 113

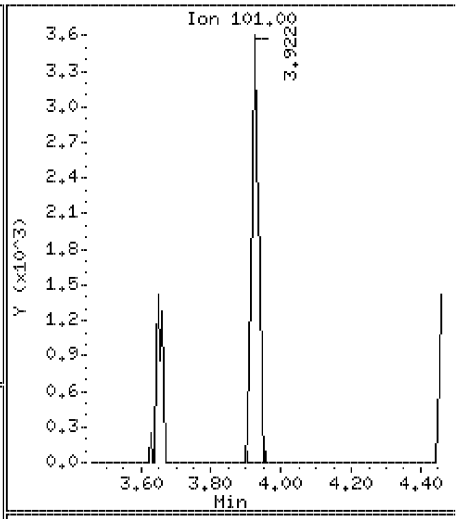
Concentration: 35.3 ppbv

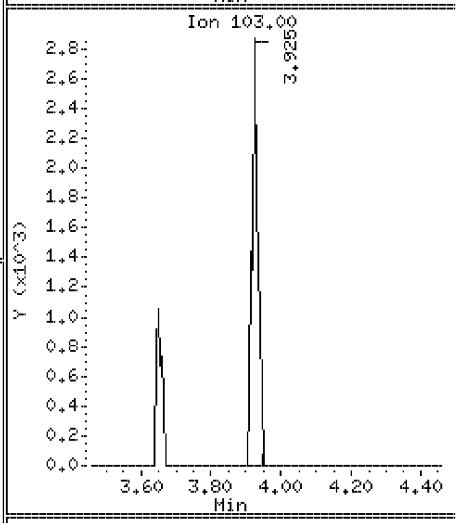


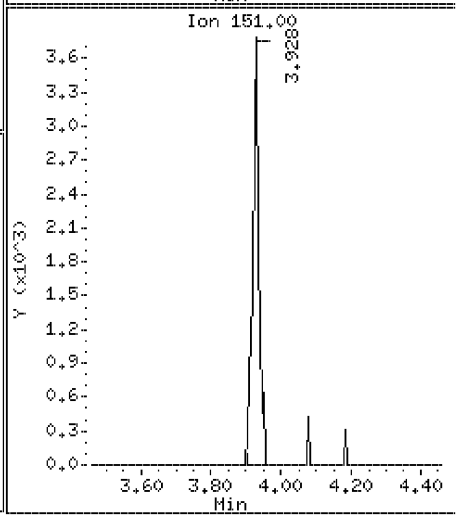












Data File: \\192.168.10.12\chem\10airB.i\040417.b\09410.D

Date : 04-APR-2017 13:10

Client ID:

Instrument: 10airB.i

Sample Info:

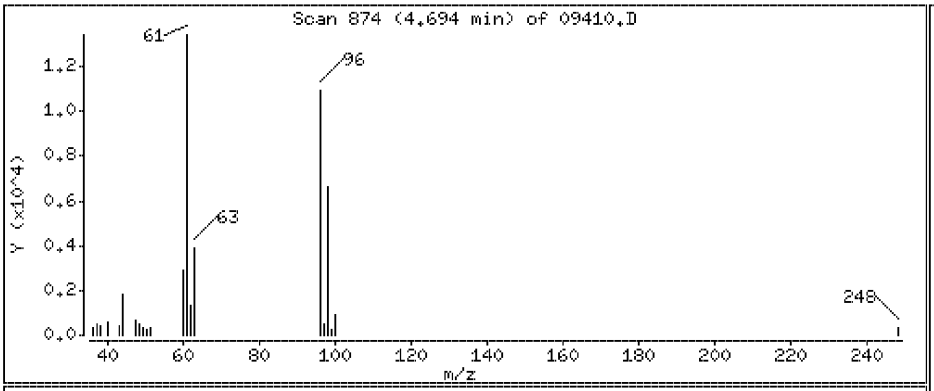
Operator: NCK

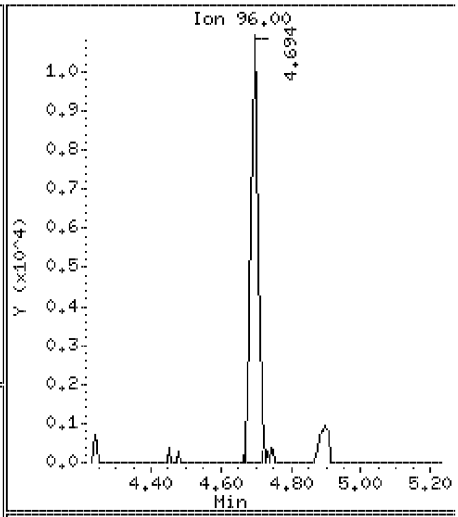
Column phase: J&W DB-5

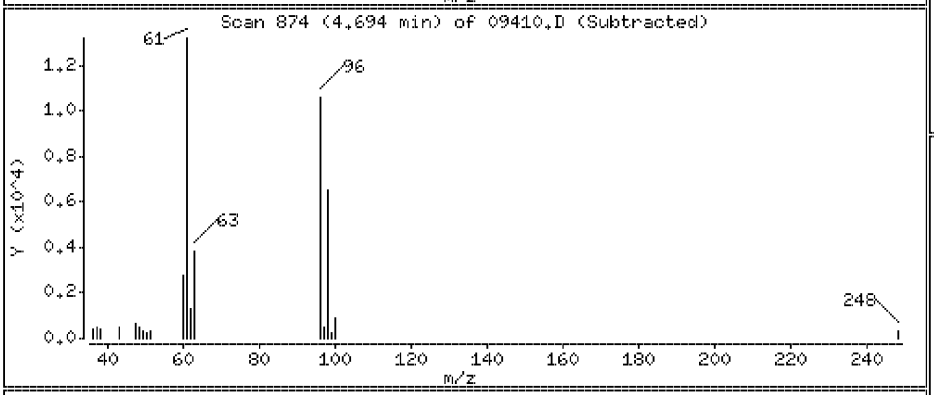
Column diameter: 0.32

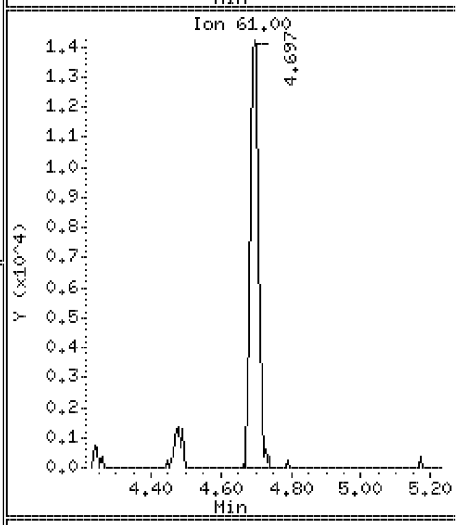
37 cis-1,2-Dichloroethene

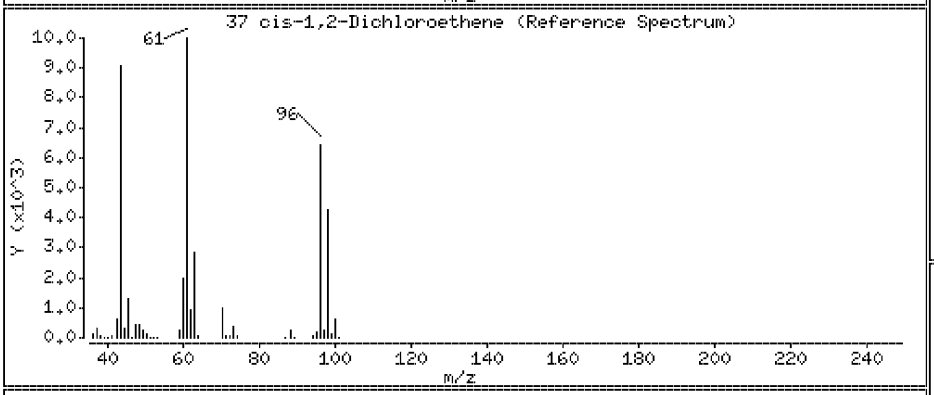
Concentration: 208 ppbv

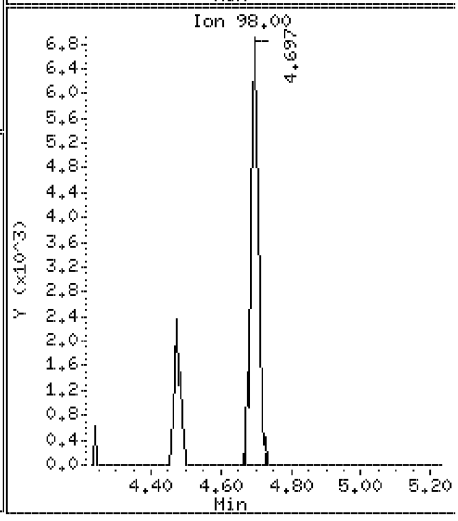


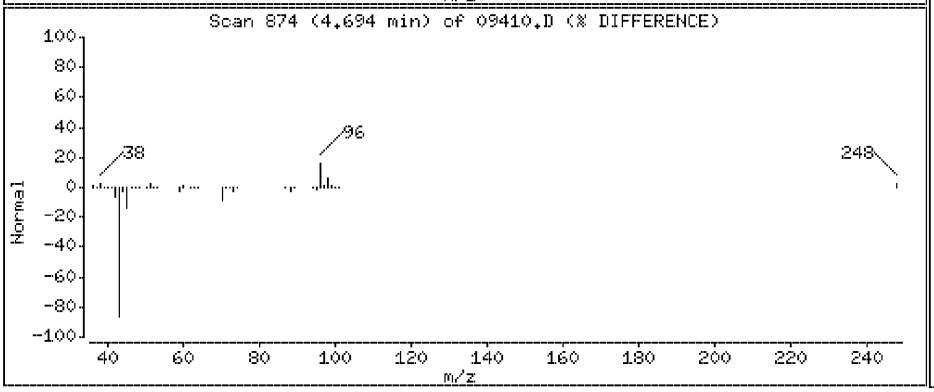












Data File: \\192.168.10.12\chem\10airB.i\040417.b\09410.D

Date : 04-APR-2017 13:10

Client ID:

Instrument: 10airB.i

Sample Info:

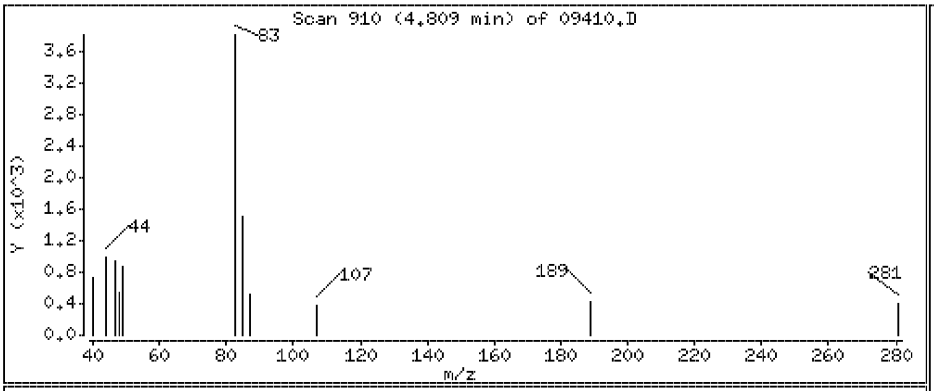
Operator: NCK

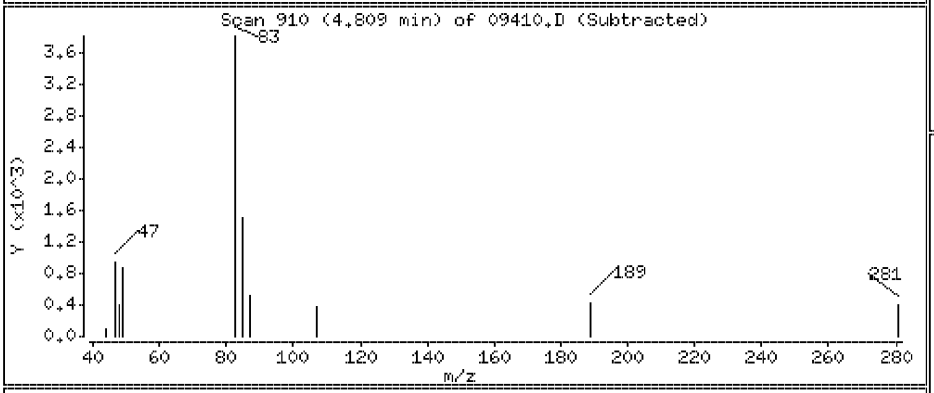
Column phase: J&W DB-5

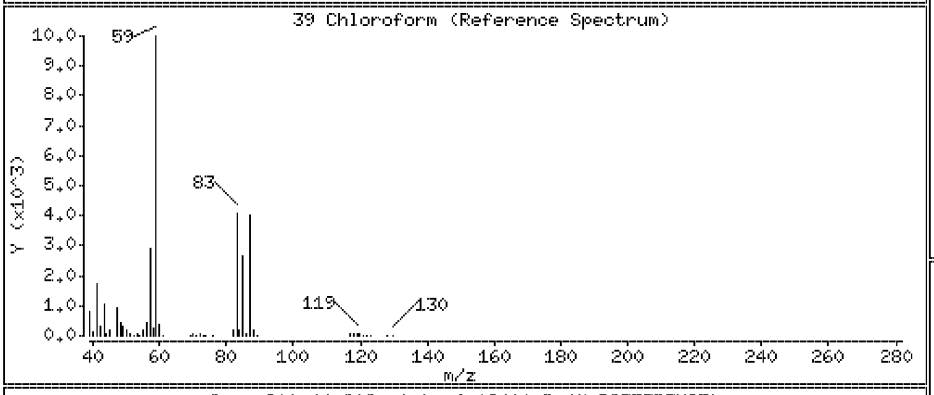
Column diameter: 0.32

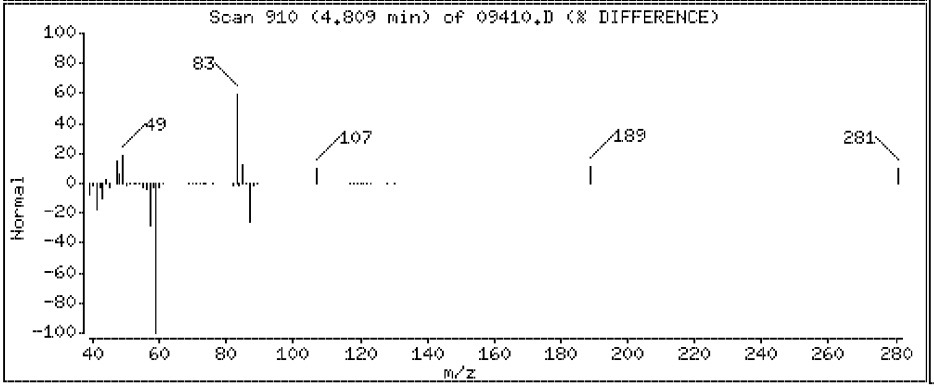
39 Chloroform

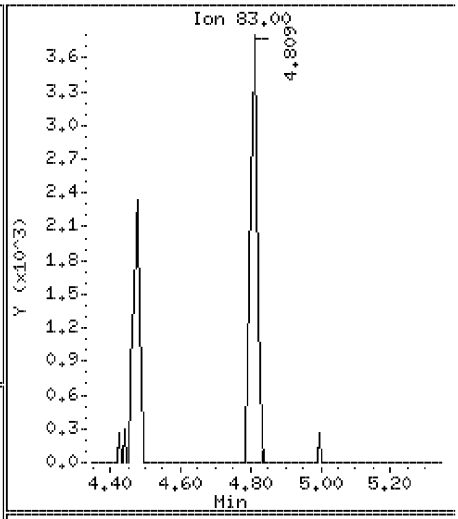
Concentration: 36.0 ppbv

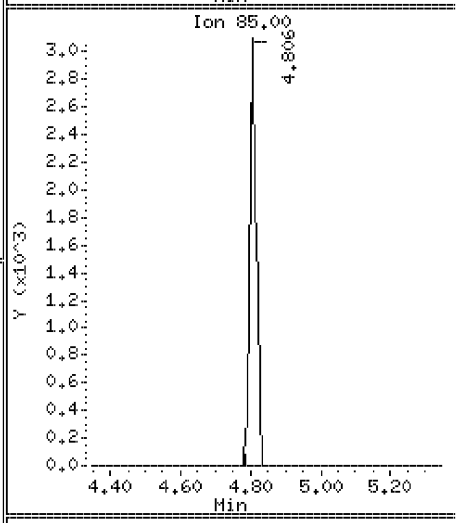


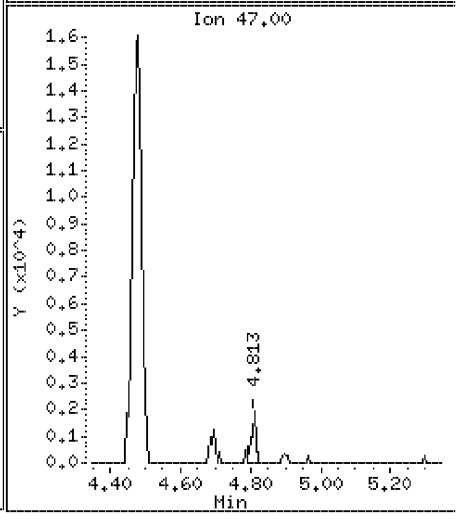












Data File: \\192.168.10.12\chem\10airB.i\040417.b\09410.D

Date : 04-APR-2017 13:10

Client ID:

Instrument: 10airB.i

Sample Info:

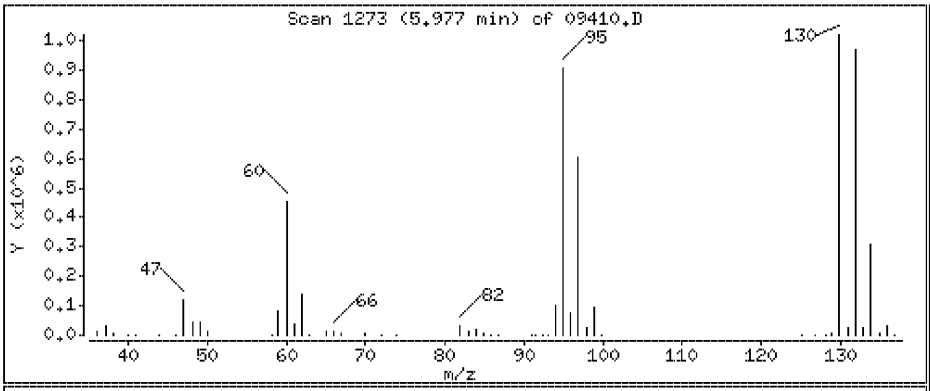
Operator: NCK

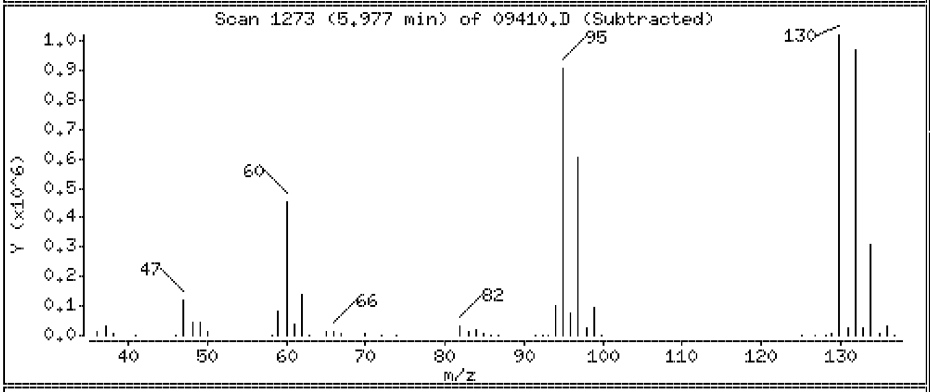
Column phase: J&W DB-5

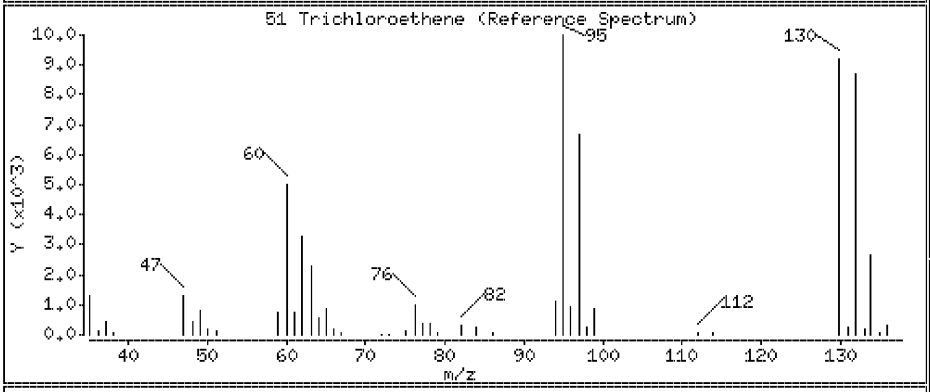
Column diameter: 0.32

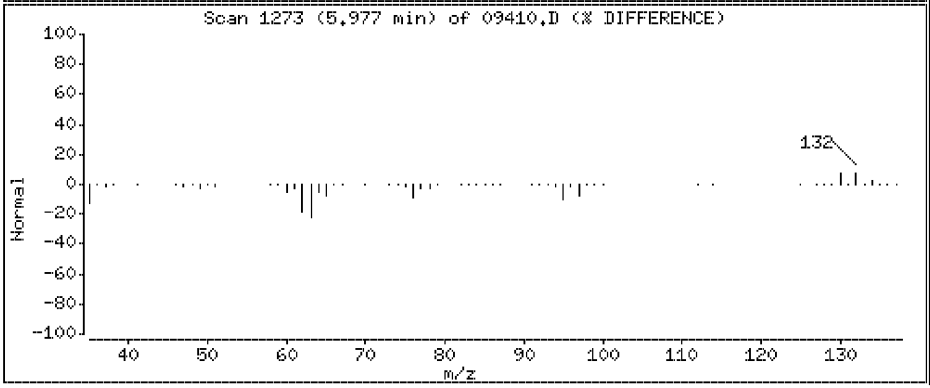
51 Trichloroethene

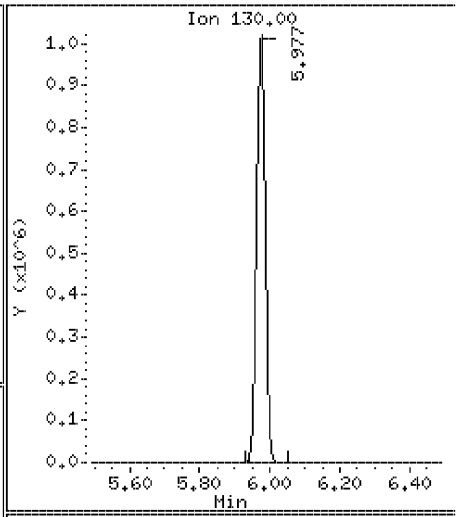
Concentration: 13000 ppbv

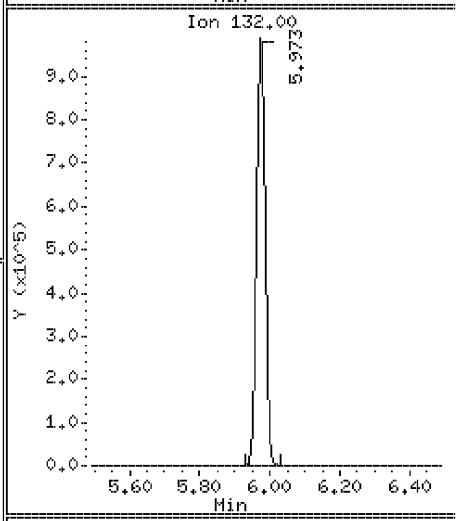


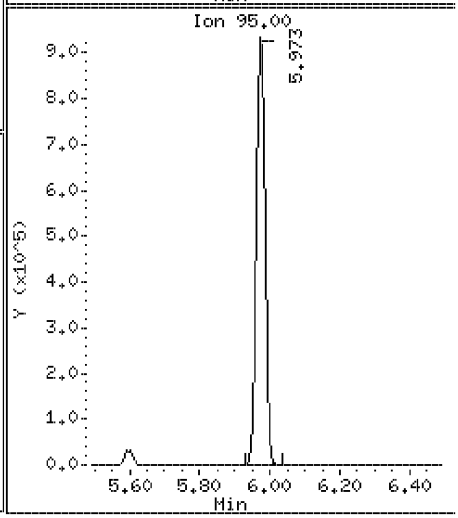












Data File: \\192.168.10.12\chem\10airB.i\040417.b\09410.D

Date : 04-APR-2017 13:10

Client ID:

Instrument: 10airB.i

Sample Info:

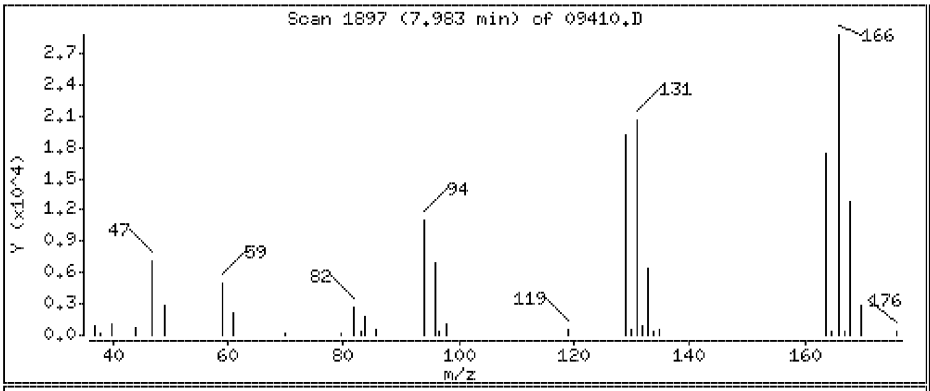
Operator: NCK

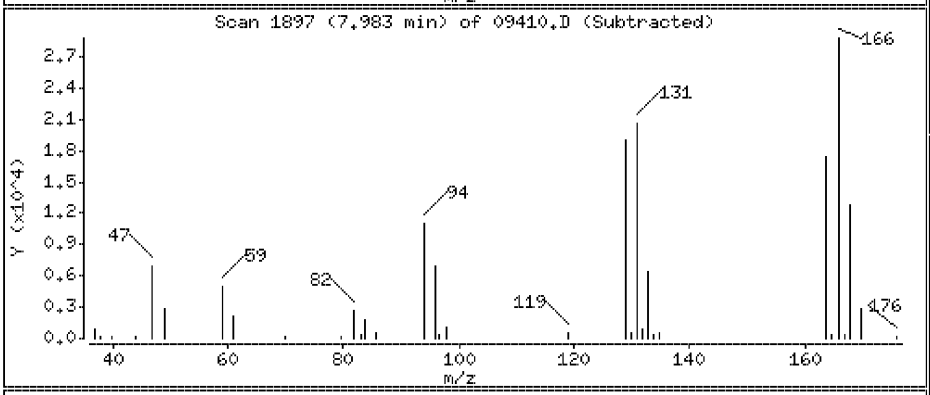
Column phase: J&W DB-5

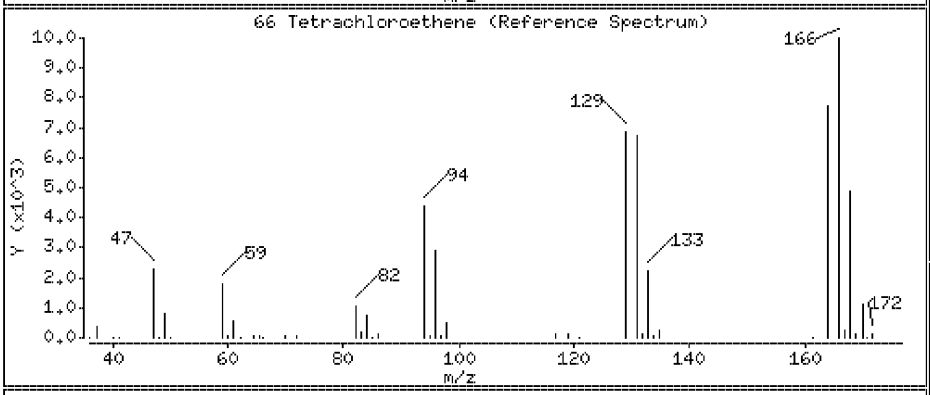
Column diameter: 0.32

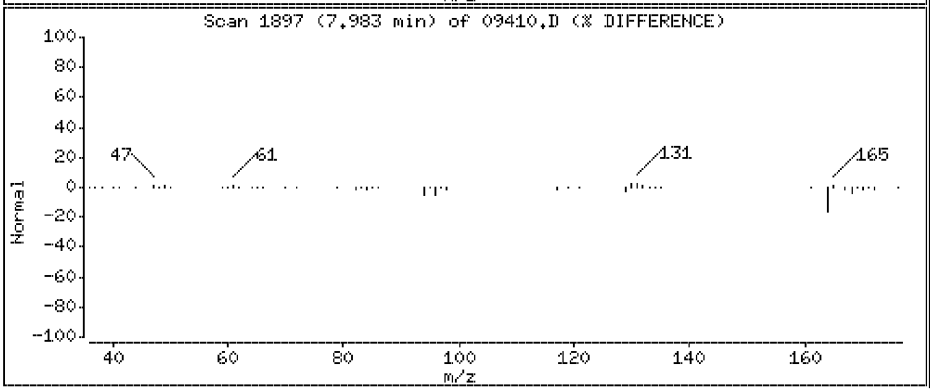
66 Tetrachloroethene

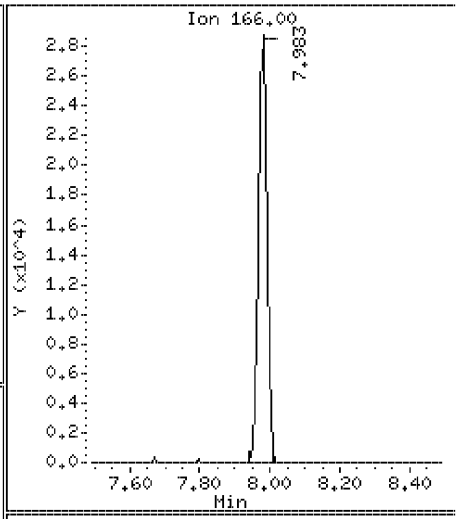
Concentration: 298 ppbv

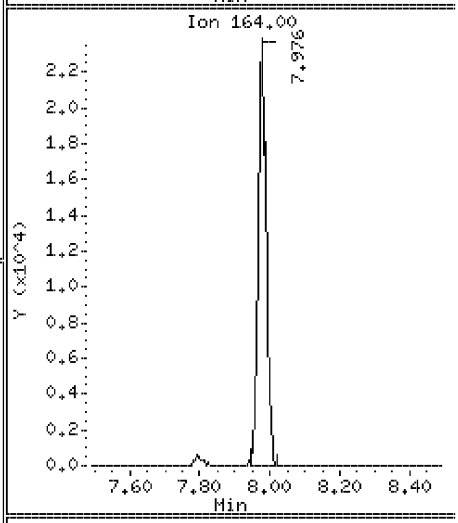


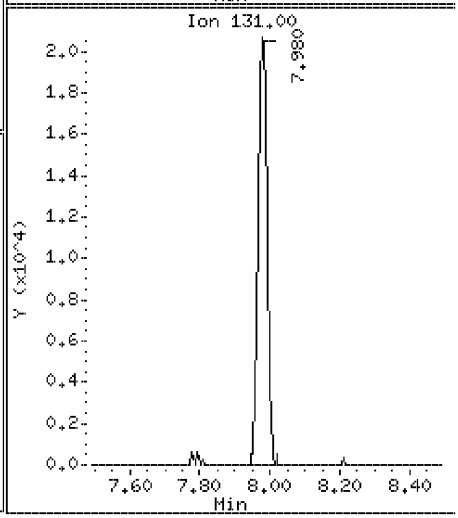












Data File: \\192.168.10.12\chem\10airB.i\040417.b/09410.D
Injection Date: 04-APR-2017 13:10
Instrument: 10airB.i
Lab Sample ID: 10381335007
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_44_20170306 **Lab ID: 10381335007** Collected: 03/06/17 13:22 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,3-Dichloropropene	**<33.8**	ug/m3	84.2	33.8	91.5		03/31/17 06:30	10061-01-5	
trans-1,3-Dichloropropene	**<23.8**	ug/m3	84.2	23.8	91.5		03/31/17 06:30	10061-02-6	
Dichlorotetrafluoroethane	**<28.4**	ug/m3	130	28.4	91.5		03/31/17 06:30	76-14-2	
Freon 123	**<291**	ug/m3	291	291	91.5		03/31/17 06:30	306-83-2	
1,4-Dioxane (p-Dioxane)	**<32.2**	ug/m3	335	32.2	91.5		03/31/17 06:30	123-91-1	
Ethylbenzene	**<38.9**	ug/m3	80.5	38.9	91.5		03/31/17 06:30	100-41-4	
4-Ethyltoluene	**<17.2**	ug/m3	91.5	17.2	91.5		03/31/17 06:30	622-96-8	
Hexachloro-1,3-butadiene	**<59.5**	ug/m3	198	59.5	91.5		03/31/17 06:30	87-68-3	
n-Hexane	**<32.7**	ug/m3	65.9	32.7	91.5		03/31/17 06:30	110-54-3	
2-Hexanone	**<37.5**	ug/m3	381	37.5	91.5		03/31/17 06:30	591-78-6	
Isopropylbenzene (Cumene)	**<12.6**	ug/m3	229	12.6	91.5		03/31/17 06:30	98-82-8	
Methyl acetate	**<141**	ug/m3	141	141	91.5		03/31/17 06:30	79-20-9	
Methylcyclohexane	**<22.1**	ug/m3	74.7	22.1	91.5		03/31/17 06:30	108-87-2	
Methylene Chloride	**<49.6**	ug/m3	323	49.6	91.5		03/31/17 06:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<19.9**	ug/m3	381	19.9	91.5		03/31/17 06:30	108-10-1	
Methyl-tert-butyl ether	**<27.7**	ug/m3	335	27.7	91.5		03/31/17 06:30	1634-04-4	
2-Propanol	**<22.0**	ug/m3	229	22.0	91.5		03/31/17 06:30	67-63-0	
Styrene	**<17.7**	ug/m3	79.6	17.7	91.5		03/31/17 06:30	100-42-5	
1,1,2,2-Tetrachloroethane	**<30.1**	ug/m3	63.9	30.1	91.5		03/31/17 06:30	79-34-5	
Tetrachloroethene	**1530**	ug/m3	63.0	25.4	91.5		03/31/17 06:30	127-18-4	
Toluene	**<14.1**	ug/m3	70.5	14.1	91.5		03/31/17 06:30	108-88-3	
1,2,4-Trichlorobenzene	**<83.2**	ug/m3	345	83.2	91.5		03/31/17 06:30	120-82-1	
1,1,1-Trichloroethane	**<22.6**	ug/m3	102	22.6	91.5		03/31/17 06:30	71-55-6	
1,1,2-Trichloroethane	**<22.5**	ug/m3	50.3	22.5	91.5		03/31/17 06:30	79-00-5	
Trichloroethene	**43900**	ug/m3	50.3	25.3	91.5		03/31/17 06:30	79-01-6	
Trichloroethene	**63600**	ug/m3	161		292.8		04/04/17 03:31	79-01-6	
Trichloroethene	**71000**	ug/m3	322		585.6		04/04/17 13:10	79-01-6	A3
Trichlorofluoromethane	**<12.1**	ug/m3	104	12.1	91.5		03/31/17 06:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	**266J**	ug/m3	468		292.8		04/04/17 03:31	76-13-1	A3
1,2,4-Trimethylbenzene	**<11.4**	ug/m3	91.4	11.4	91.5		03/31/17 06:30	95-63-6	
1,3,5-Trimethylbenzene	**<16.7**	ug/m3	91.4	16.7	91.5		03/31/17 06:30	108-67-8	
Vinyl chloride	**<17.8**	ug/m3	23.8	17.8	91.5		03/31/17 06:30	75-01-4	
m&p-Xylene	**<71.9**	ug/m3	162	71.9	91.5		03/31/17 06:30	179601-23-1	
o-Xylene	**<32.1**	ug/m3	80.5	32.1	91.5		03/31/17 06:30	95-47-6	

Sample: VP-107_60_20170306 **Lab ID: 10381335008** Collected: 03/06/17 13:38 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<28.0**	ug/m3	81.1	28.0	33.6		03/29/17 03:25	67-64-1	
Allyl chloride	**<7.6**	ug/m3	53.4	7.6	33.6		03/29/17 03:25	107-05-1	
Benzene	**<4.1**	ug/m3	10.9	4.1	33.6		03/29/17 03:25	71-43-2	
Bromodichloromethane	**<6.5**	ug/m3	45.7	6.5	33.6		03/29/17 03:25	75-27-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_60_20170306 **Lab ID: 10381335008** Collected: 03/06/17 13:38 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Bromoform	**<30.3**	ug/m3	70.6	30.3	33.6		03/29/17 03:25	75-25-2	
Bromomethane	**<10.4**	ug/m3	26.5	10.4	33.6		03/29/17 03:25	74-83-9	
1,3-Butadiene	**<5.9**	ug/m3	15.1	5.9	33.6		03/29/17 03:25	106-99-0	
2-Butanone (MEK)	**<7.7**	ug/m3	101	7.7	33.6		03/29/17 03:25	78-93-3	
Carbon disulfide	**47.4**	ug/m3	21.2	3.4	33.6		03/29/17 03:25	75-15-0	
Carbon tetrachloride	**<6.5**	ug/m3	21.5	6.5	33.6		03/29/17 03:25	56-23-5	
Chlorobenzene	**<4.5**	ug/m3	31.6	4.5	33.6		03/29/17 03:25	108-90-7	
Chlorodifluoromethane	**238**	ug/m3	24.2	9.3	33.6		03/29/17 03:25	75-45-6	
Chloroethane	**<6.5**	ug/m3	18.1	6.5	33.6		03/29/17 03:25	75-00-3	
Chloroform	**81.9**	ug/m3	16.7	6.4	33.6		03/29/17 03:25	67-66-3	
Chloromethane	**<3.6**	ug/m3	14.1	3.6	33.6		03/29/17 03:25	74-87-3	
Chloropentafluoroethane	**<108**	ug/m3	108	108	33.6		03/29/17 03:25	76-15-3	
Cyclohexane	**<10.6**	ug/m3	23.5	10.6	33.6		03/29/17 03:25	110-82-7	
1,2-Dibromo-3-chloropropane	**<165**	ug/m3	165	165	33.6		03/29/17 03:25	96-12-8	
Dibromochloromethane	**<28.8**	ug/m3	58.1	28.8	33.6		03/29/17 03:25	124-48-1	
1,2-Dibromoethane (EDB)	**<26.0**	ug/m3	52.4	26.0	33.6		03/29/17 03:25	106-93-4	
1,2-Dichlorobenzene	**<17.2**	ug/m3	41.0	17.2	33.6		03/29/17 03:25	95-50-1	
1,3-Dichlorobenzene	**<17.8**	ug/m3	41.0	17.8	33.6		03/29/17 03:25	541-73-1	
1,4-Dichlorobenzene	**<16.8**	ug/m3	41.0	16.8	33.6		03/29/17 03:25	106-46-7	
Dichlorodifluoromethane	**<16.1**	ug/m3	33.9	16.1	33.6		03/29/17 03:25	75-71-8	
1,1-Dichloroethane	**<5.3**	ug/m3	27.6	5.3	33.6		03/29/17 03:25	75-34-3	
1,2-Dichloroethane	**<6.9**	ug/m3	13.8	6.9	33.6		03/29/17 03:25	107-06-2	
1,1-Dichloroethene	**<8.0**	ug/m3	27.2	8.0	33.6		03/29/17 03:25	75-35-4	
cis-1,2-Dichloroethene	**446**	ug/m3	27.2	8.3	33.6		03/29/17 03:25	156-59-2	
trans-1,2-Dichloroethene	**<12.9**	ug/m3	27.2	12.9	33.6		03/29/17 03:25	156-60-5	
1,2-Dichloropropane	**<9.1**	ug/m3	31.6	9.1	33.6		03/29/17 03:25	78-87-5	
cis-1,3-Dichloropropene	**<12.4**	ug/m3	30.9	12.4	33.6		03/29/17 03:25	10061-01-5	
trans-1,3-Dichloropropene	**<8.7**	ug/m3	77.5	8.7	33.6		03/29/17 03:25	10061-02-6	
Dichlorotetrafluoroethane	**<10.4**	ug/m3	47.7	10.4	33.6		03/29/17 03:25	76-14-2	
Freon 123	**<107**	ug/m3	107	107	33.6		03/29/17 03:25	306-83-2	
1,4-Dioxane (p-Dioxane)	**<11.8**	ug/m3	123	11.8	33.6		03/29/17 03:25	123-91-1	
Ethylbenzene	**<14.3**	ug/m3	29.6	14.3	33.6		03/29/17 03:25	100-41-4	
4-Ethyltoluene	**<6.3**	ug/m3	33.6	6.3	33.6		03/29/17 03:25	622-96-8	
Hexachloro-1,3-butadiene	**<21.8**	ug/m3	72.8	21.8	33.6		03/29/17 03:25	87-68-3	
n-Hexane	**<12.0**	ug/m3	24.2	12.0	33.6		03/29/17 03:25	110-54-3	
2-Hexanone	**<13.8**	ug/m3	140	13.8	33.6		03/29/17 03:25	591-78-6	
Isopropylbenzene (Cumene)	**<4.6**	ug/m3	84.0	4.6	33.6		03/29/17 03:25	98-82-8	
Methyl acetate	**<51.7**	ug/m3	51.7	51.7	33.6		03/29/17 03:25	79-20-9	
Methylcyclohexane	**<8.1**	ug/m3	27.4	8.1	33.6		03/29/17 03:25	108-87-2	
Methylene Chloride	**<18.2**	ug/m3	119	18.2	33.6		03/29/17 03:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<7.3**	ug/m3	140	7.3	33.6		03/29/17 03:25	108-10-1	
Methyl-tert-butyl ether	**<10.2**	ug/m3	123	10.2	33.6		03/29/17 03:25	1634-04-4	
2-Propanol	**<8.1**	ug/m3	84.0	8.1	33.6		03/29/17 03:25	67-63-0	
Styrene	**<6.5**	ug/m3	29.2	6.5	33.6		03/29/17 03:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<11.1**	ug/m3	23.5	11.1	33.6		03/29/17 03:25	79-34-5	
Tetrachloroethene	**1390**	ug/m3	23.2	9.3	33.6		03/29/17 03:25	127-18-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D
Report Date: 03-Apr-2017 15:15

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08737.D
Lab Smp Id: 10381335008
Inj Date : 29-MAR-2017 03:25
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 37
Dil Factor: 33.60000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	33.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.021	2.996	(0.539)	21455	1.97202	66.3(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.658	3.658	(0.653)	10949	0.13362	4.49	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.745	3.713	(0.668)	18045	0.32480	10.9	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.931	3.938	(0.702)	32765	0.49796	16.7	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D
Report Date: 03-Apr-2017 15:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	4.102	4.111	(0.732)	33533	0.44618	15.0	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.478	(0.799)	755779	9.47420	9.47	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.693	4.722	(0.838)	116259	3.29595	111(QH)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.809	4.838	(0.858)	34385	0.49141	16.5	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.603	5.610	(1.000)	2126529	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.979	5.986	(1.067)	4897195	76.0777	2560(A)	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.073	(1.261)	1767802	9.86074	9.86	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	503397	5.98401	201	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	1284486	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D
Report Date: 03-Apr-2017 15:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	463652	7.60374	7.60
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D
Report Date: 03-Apr-2017 15:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08737.D
Lab Smp Id: 10381335008
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

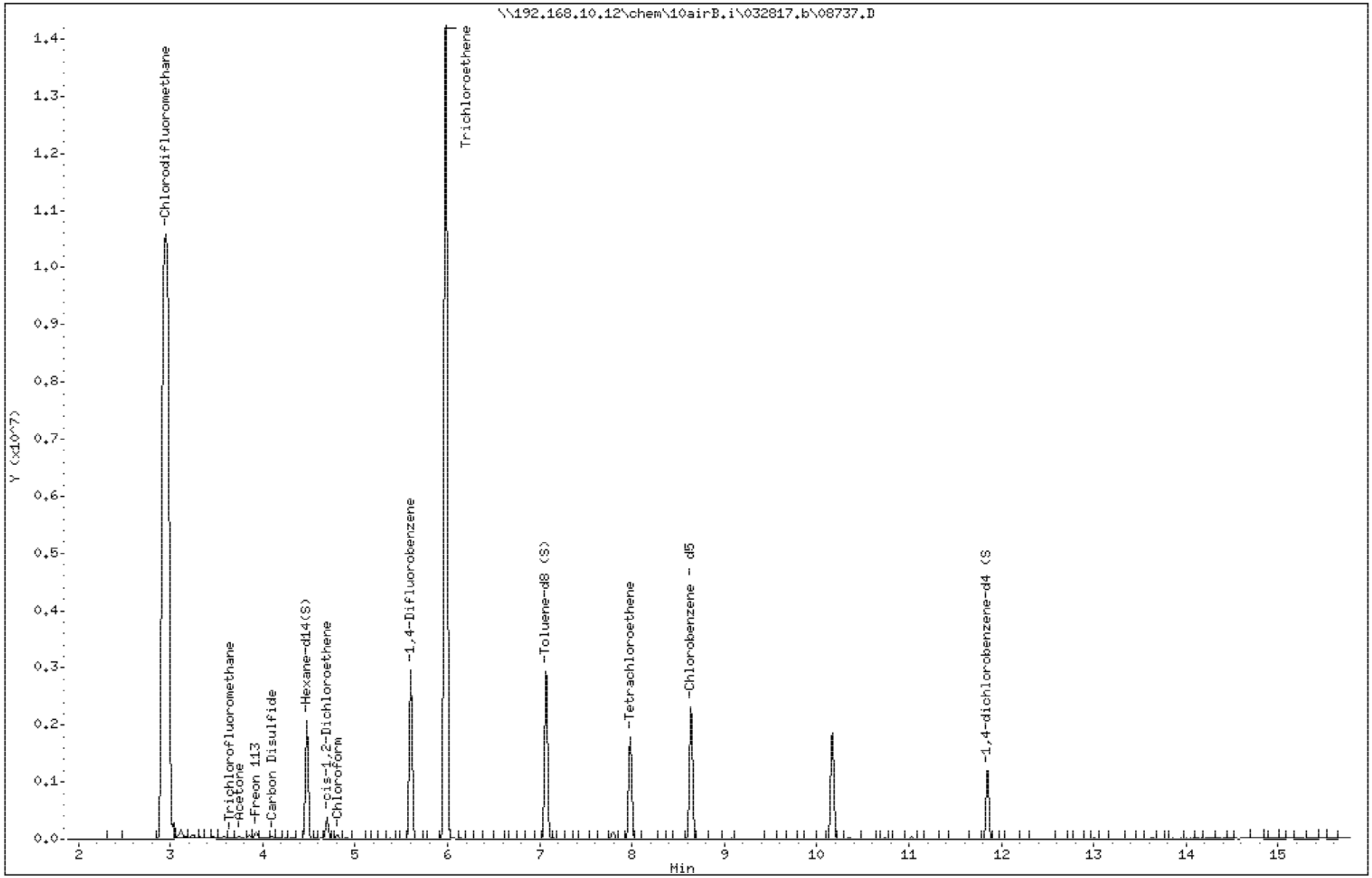
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2126529	-24.90
67 Chlorobenzene - d	1804482	1082689	2526275	1284486	-28.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.11
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D
Date : 29-MAR-2017 03:25
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D

Date : 29-MAR-2017 03:25

Client ID:

Instrument: 10airB.i

Sample Info:

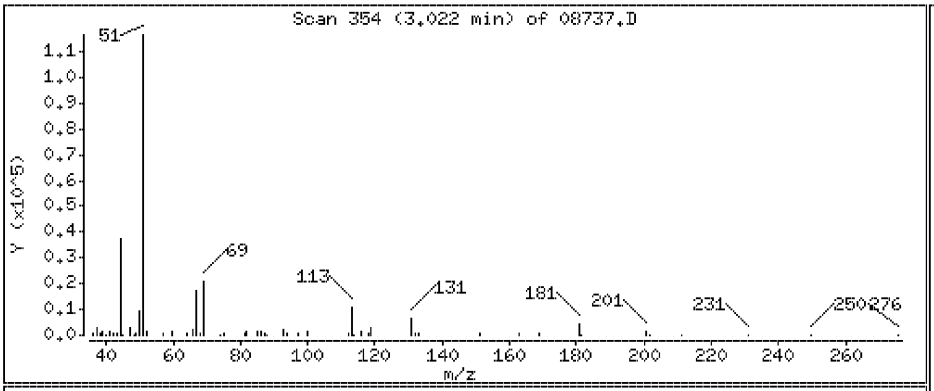
Operator: NCK

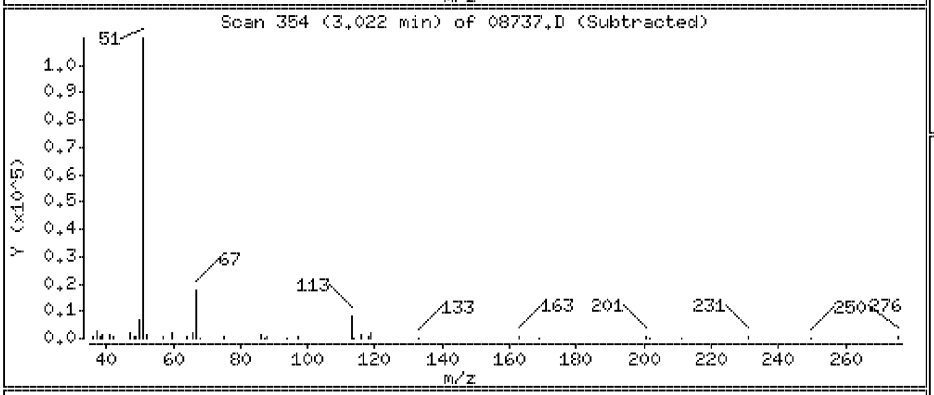
Column phase: J&W DB-5

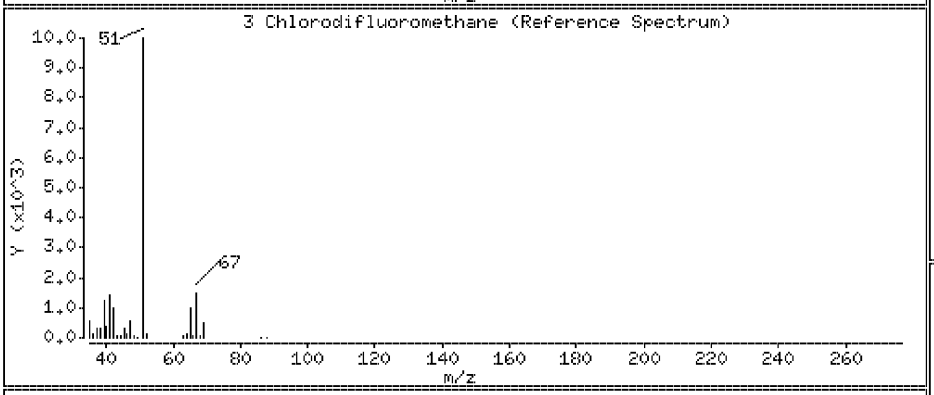
Column diameter: 0.32

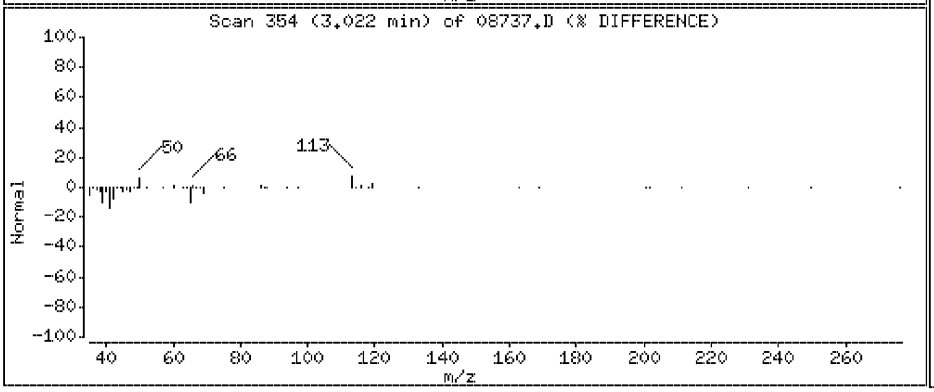
3 Chlorodifluoromethane

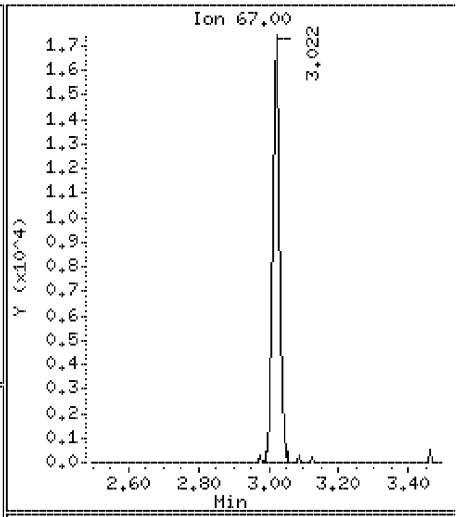
Concentration: 66.3 ppbv

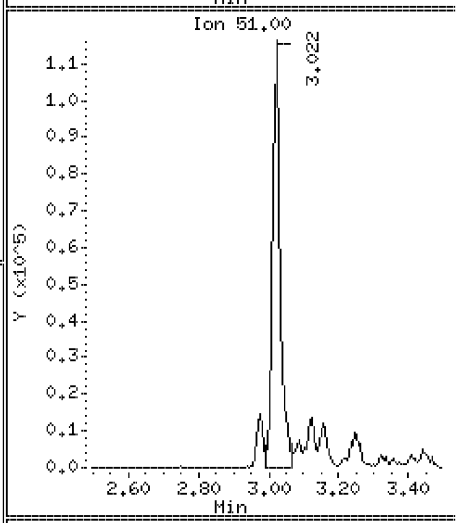


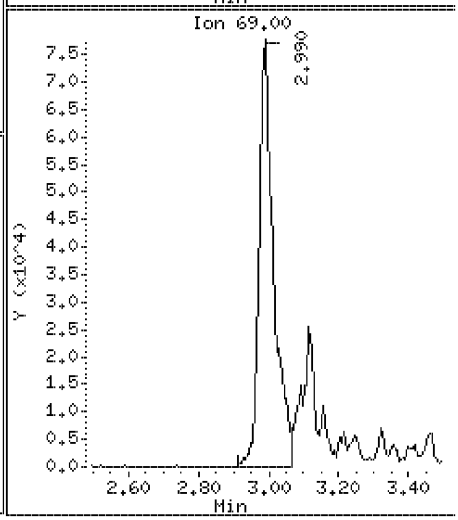












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D

Date : 29-MAR-2017 03:25

Client ID:

Instrument: 10airB.i

Sample Info:

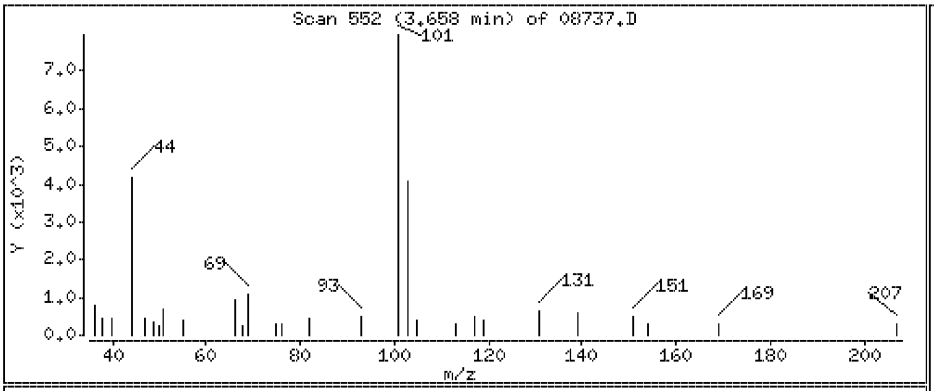
Operator: NCK

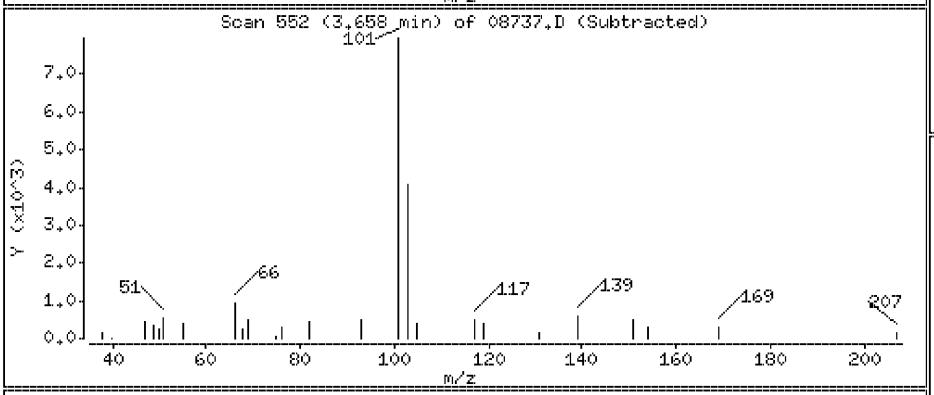
Column phase: J&W DB-5

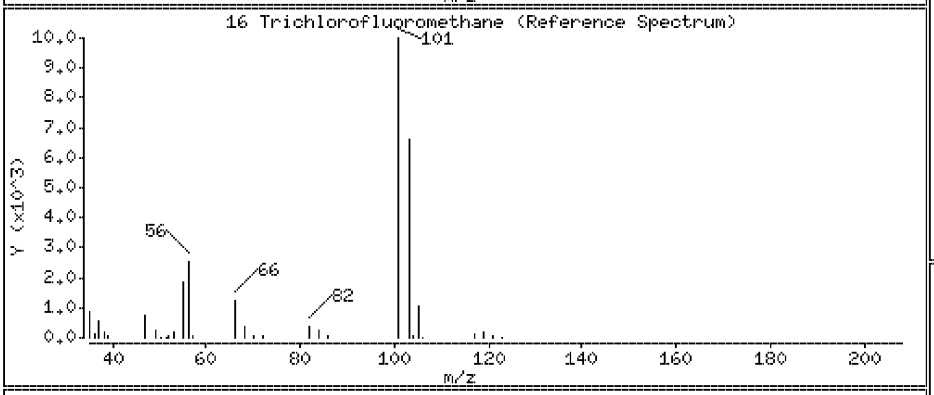
Column diameter: 0.32

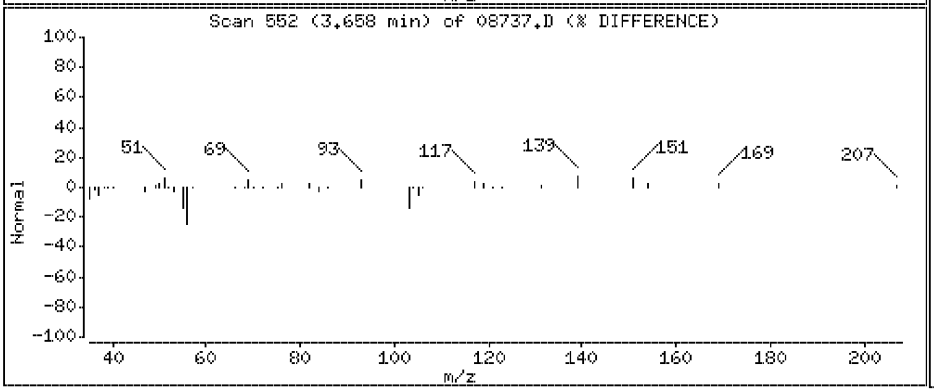
16 Trichlorofluoromethane

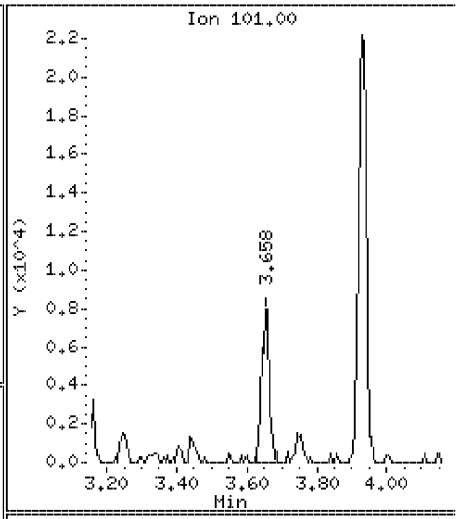
Concentration: 4.49 ppbv

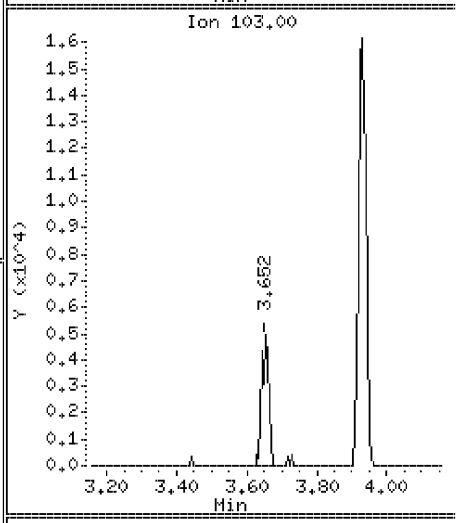


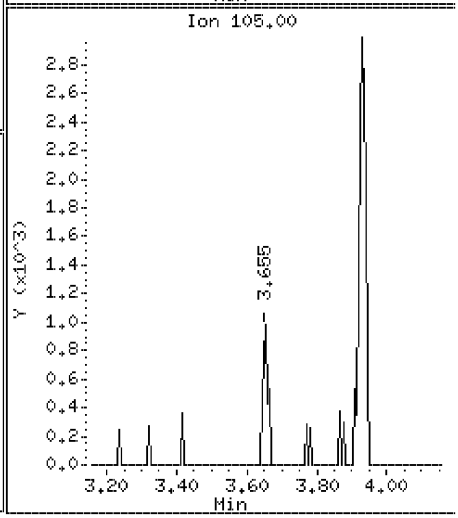












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D

Date : 29-MAR-2017 03:25

Client ID:

Instrument: 10airB.i

Sample Info:

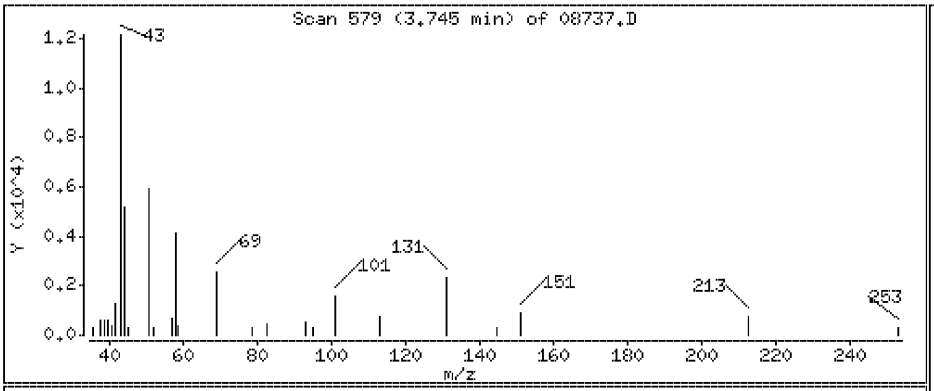
Operator: NCK

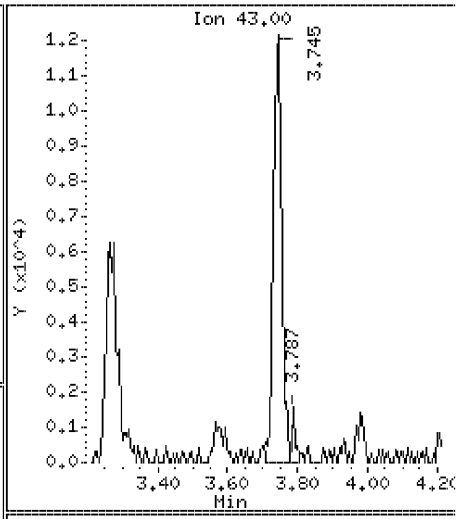
Column phase: J&W DB-5

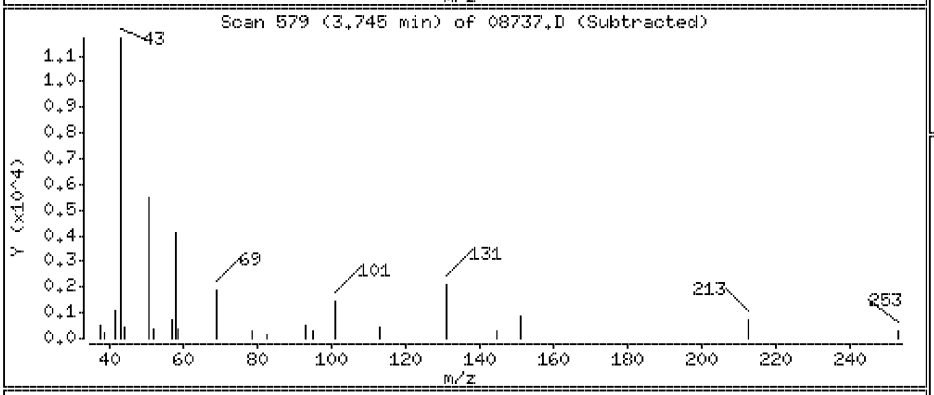
Column diameter: 0.32

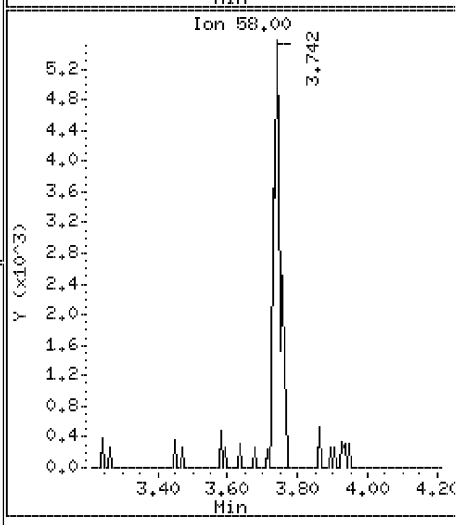
18 Acetone

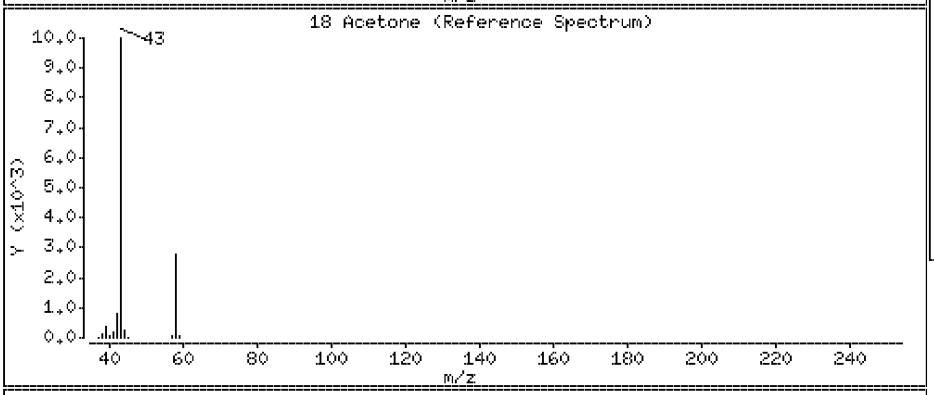
Concentration: 10.9 ppbv

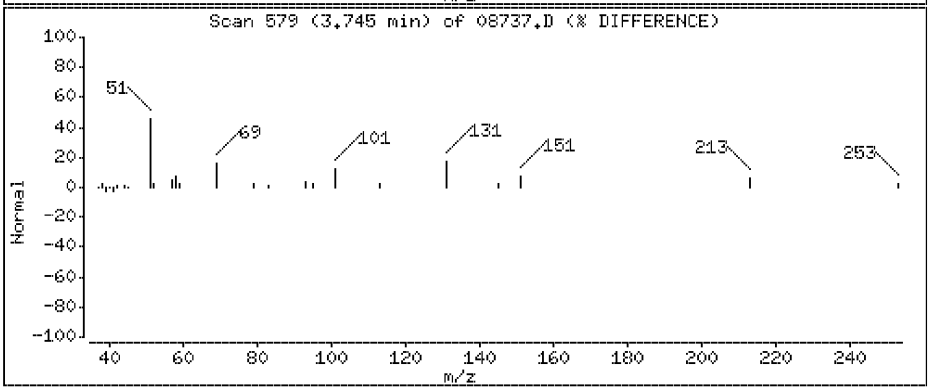












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D

Date : 29-MAR-2017 03:25

Client ID:

Instrument: 10airB.i

Sample Info:

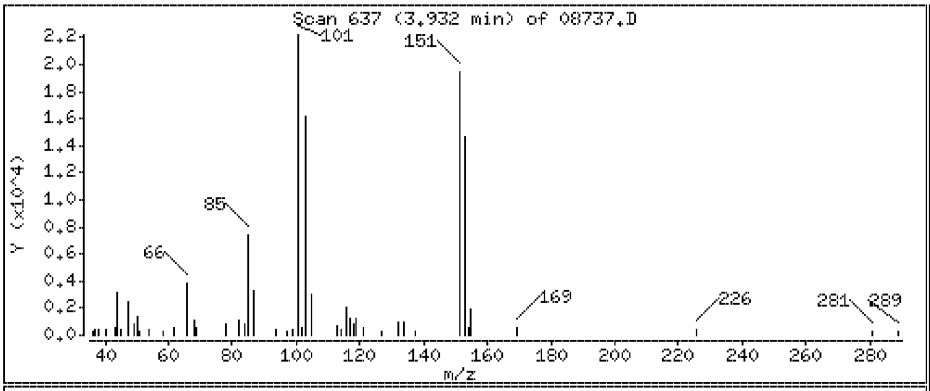
Operator: NCK

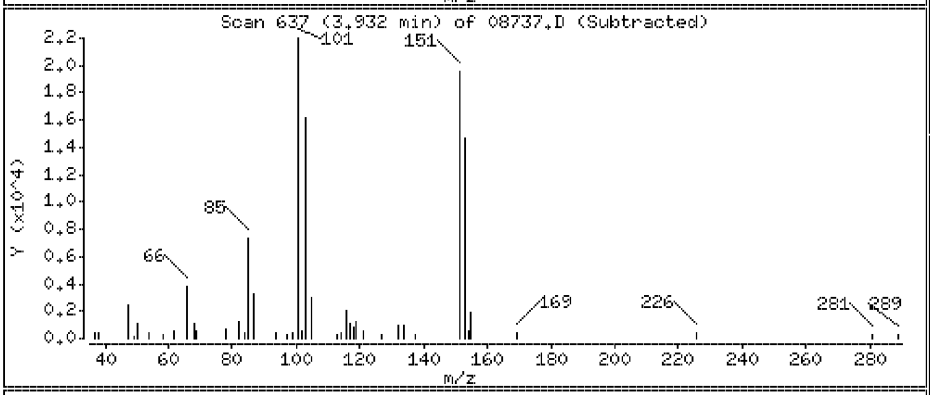
Column phase: J&W DB-5

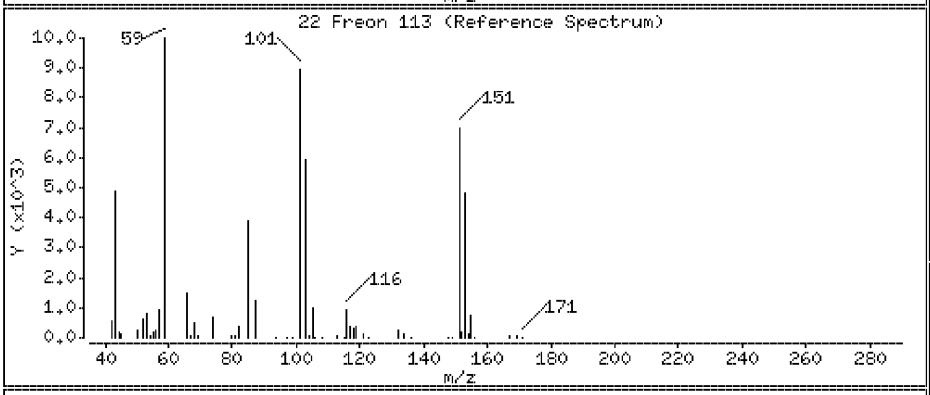
Column diameter: 0.32

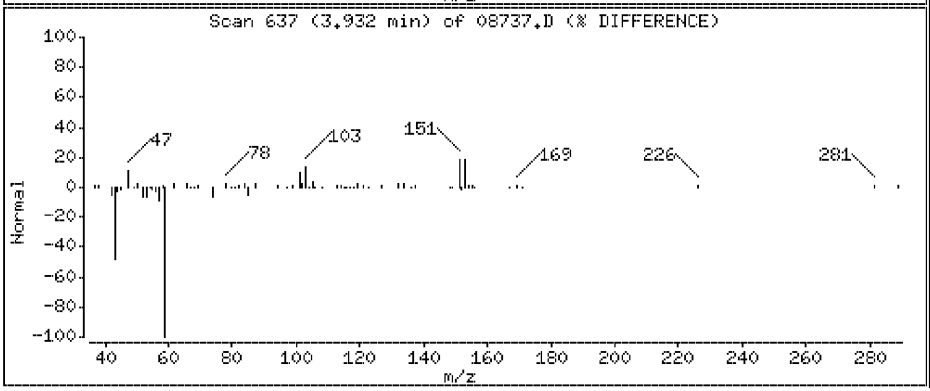
22 Freon 113

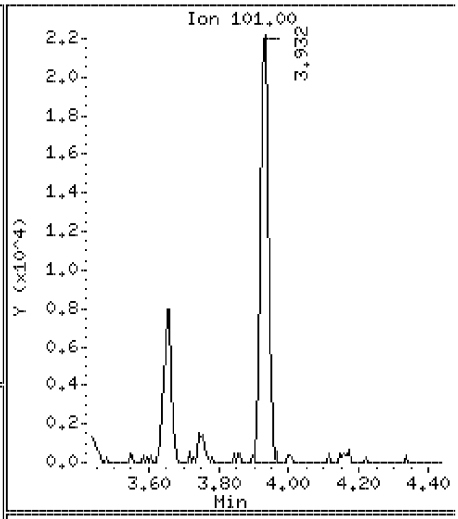
Concentration: 16.7 ppbv

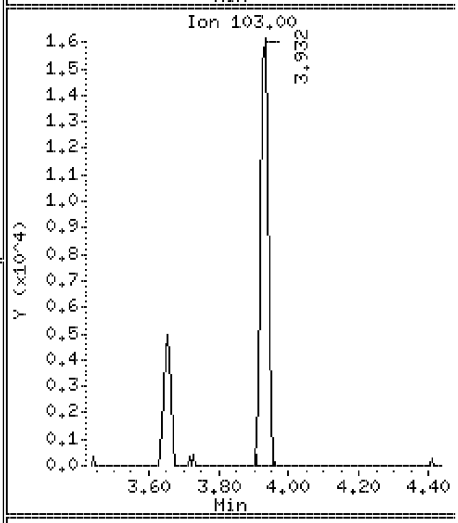


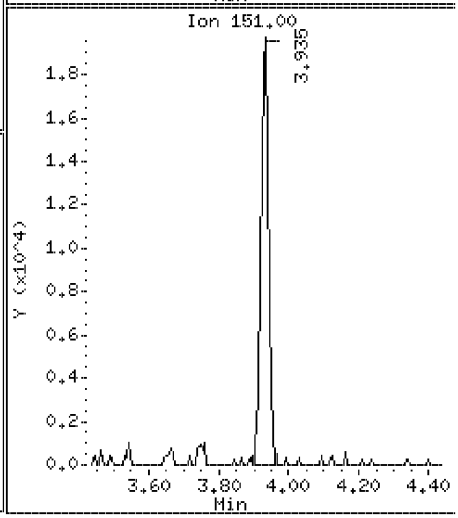












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D

Date : 29-MAR-2017 03:25

Client ID:

Instrument: 10airB.i

Sample Info:

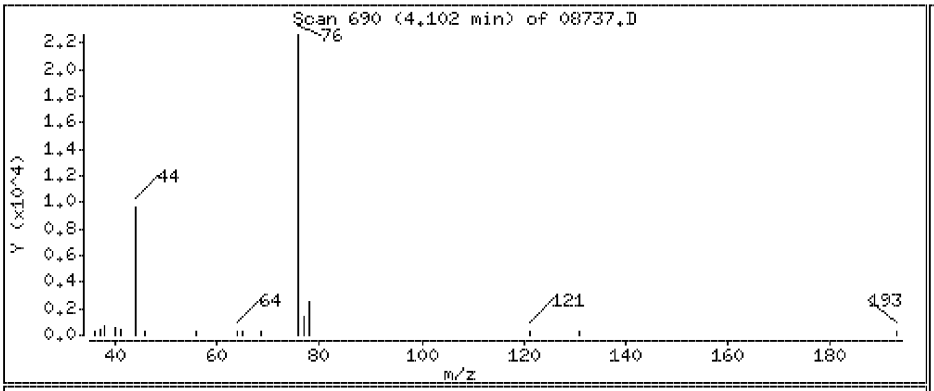
Operator: NCK

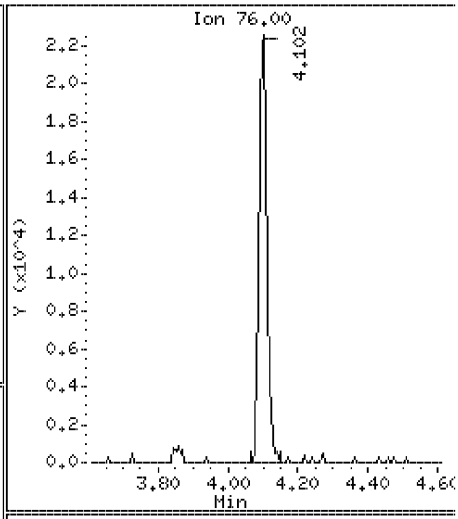
Column phase: J&W DB-5

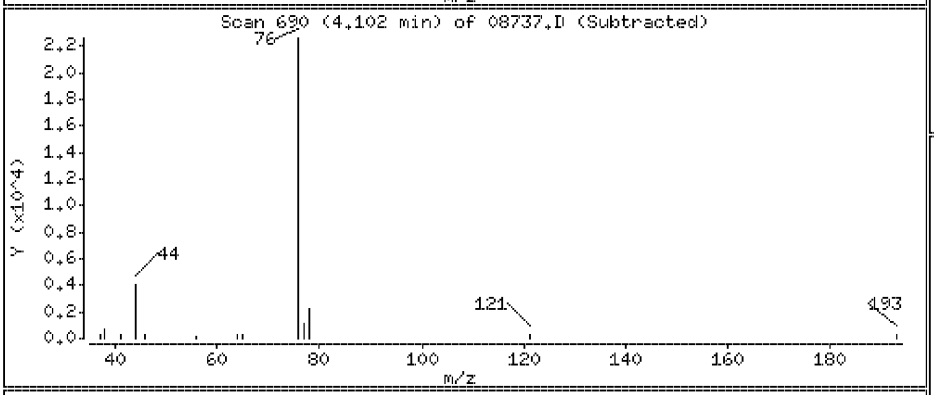
Column diameter: 0.32

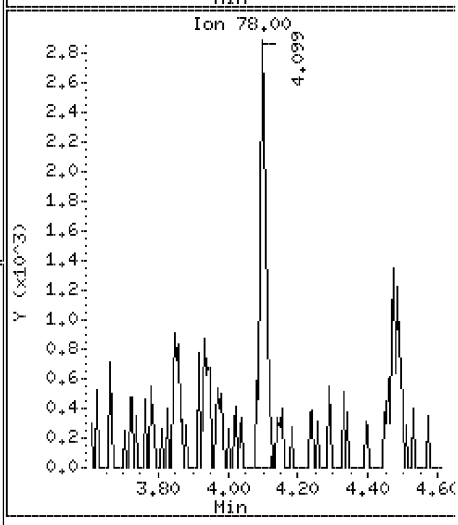
27 Carbon Disulfide

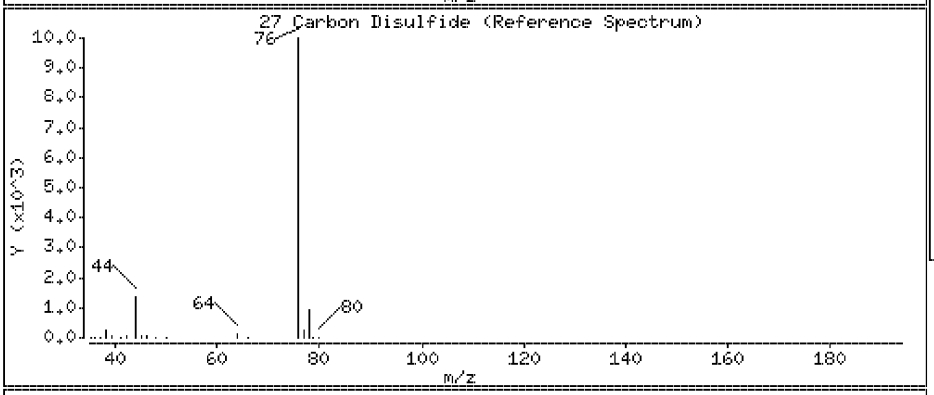
Concentration: 15.0 ppbv

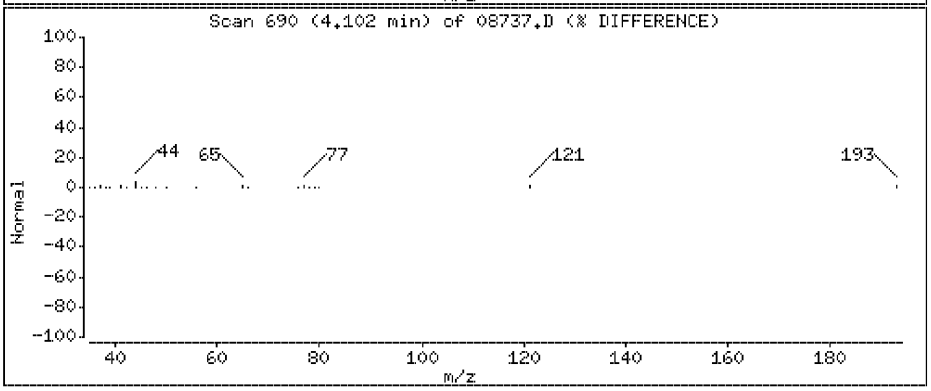












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D

Date : 29-MAR-2017 03:25

Client ID:

Instrument: 10airB.i

Sample Info:

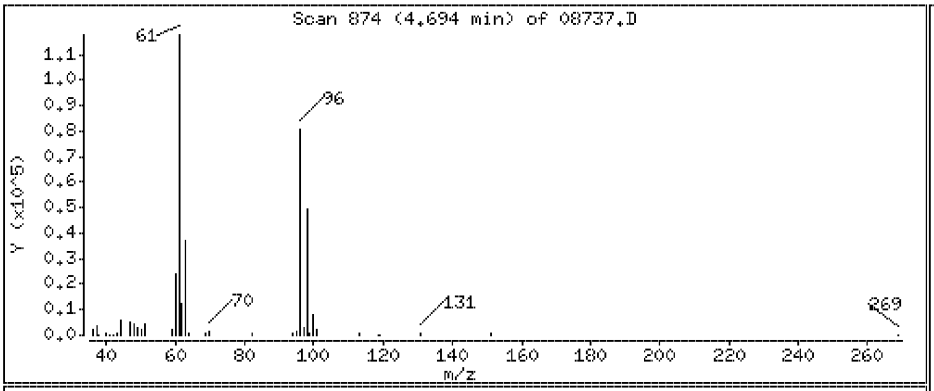
Operator: NCK

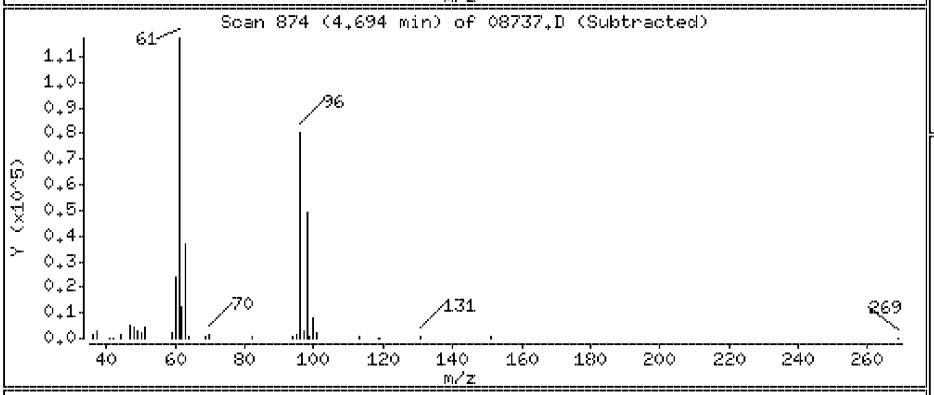
Column phase: J&W DB-5

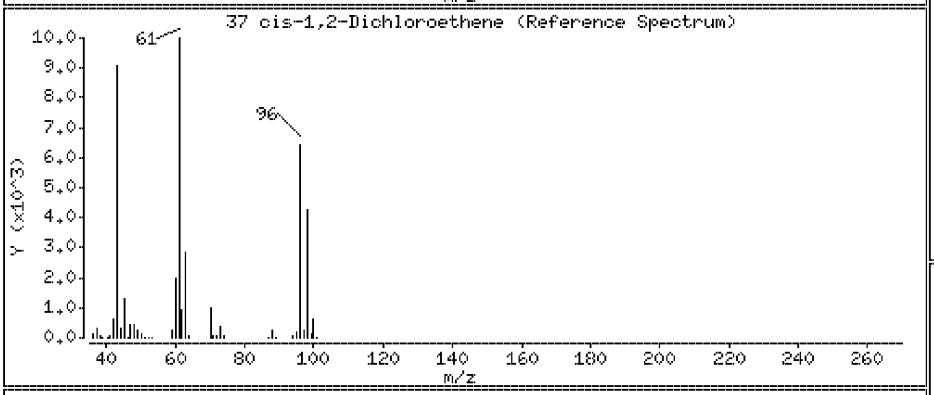
Column diameter: 0.32

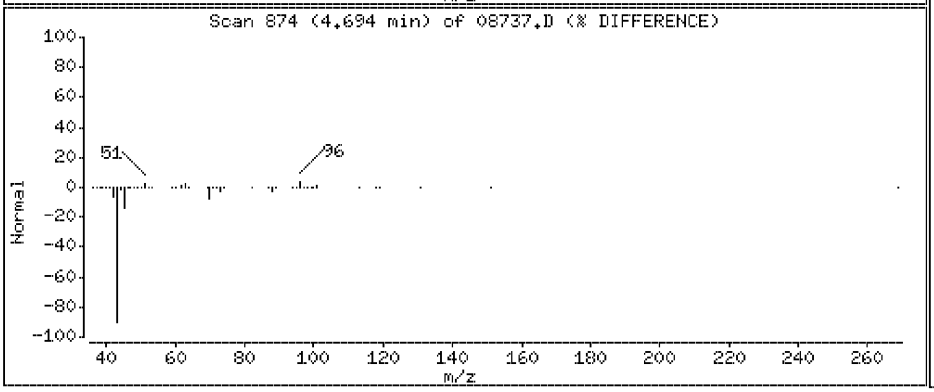
37 cis-1,2-Dichloroethene

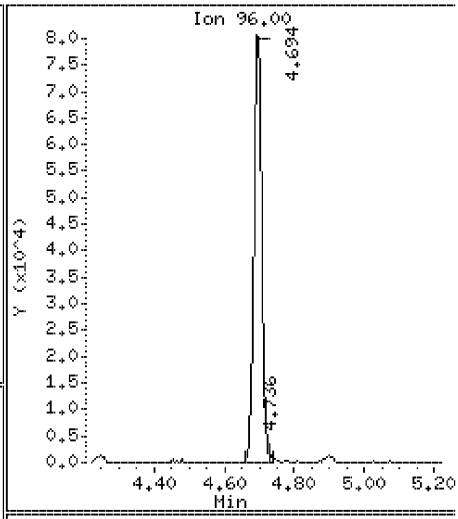
Concentration: 111 ppbv

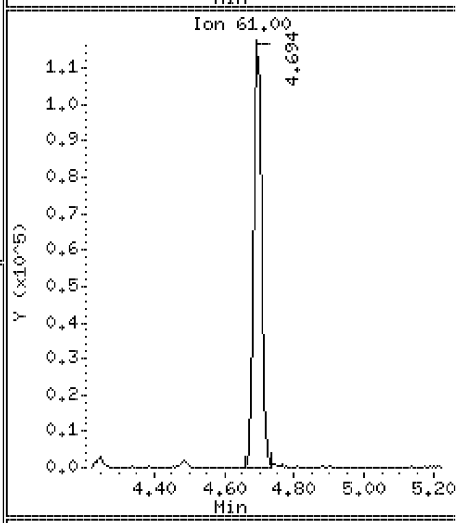


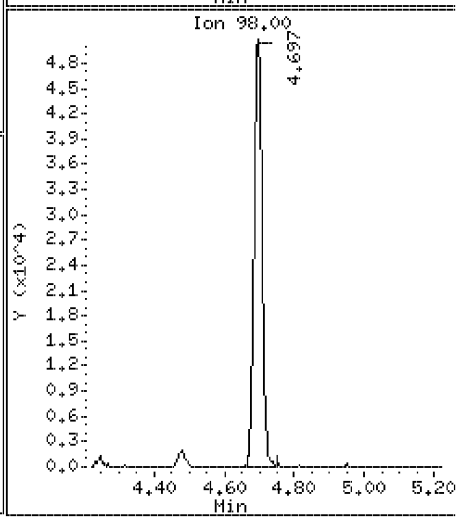












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D

Date : 29-MAR-2017 03:25

Client ID:

Instrument: 10airB.i

Sample Info:

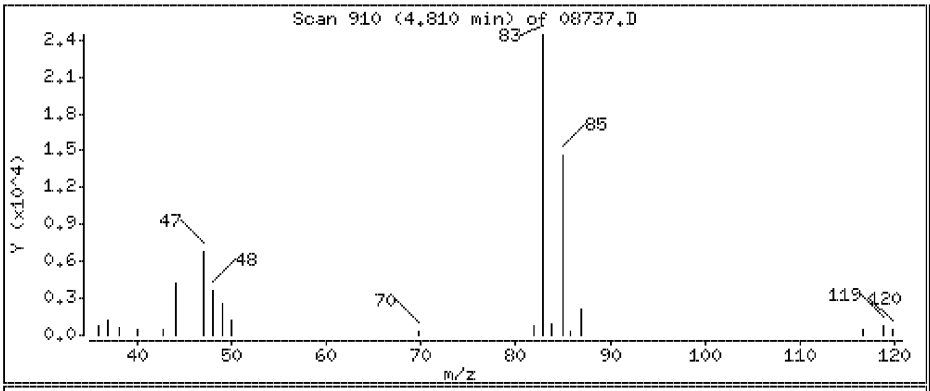
Operator: NCK

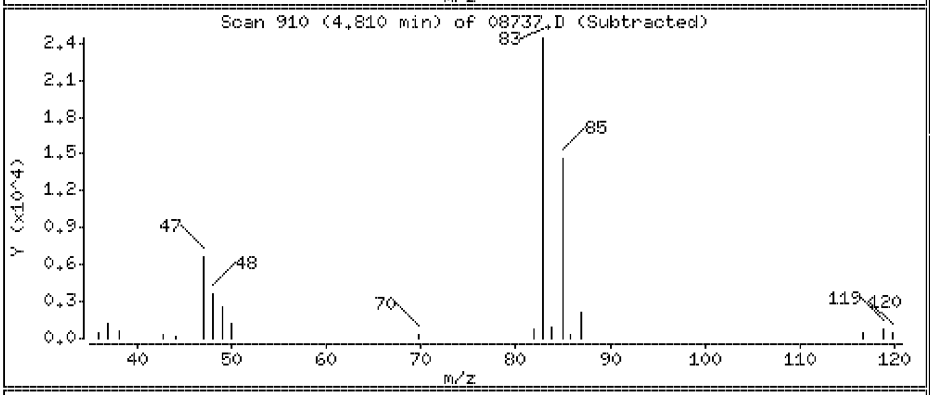
Column phase: J&W DB-5

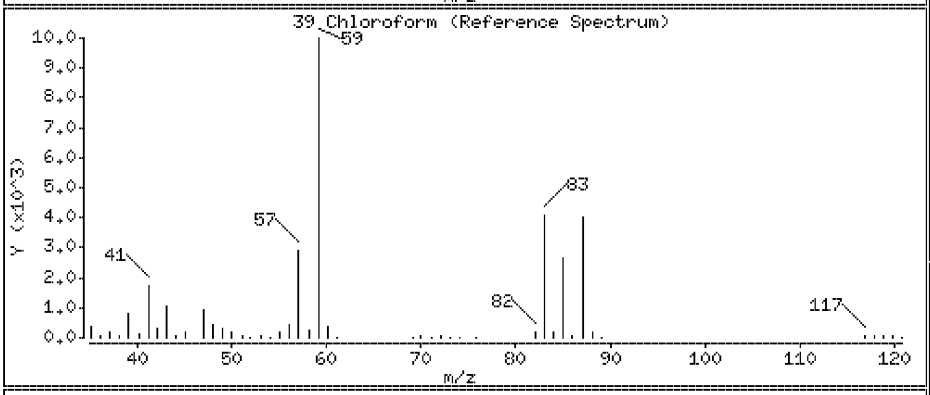
Column diameter: 0.32

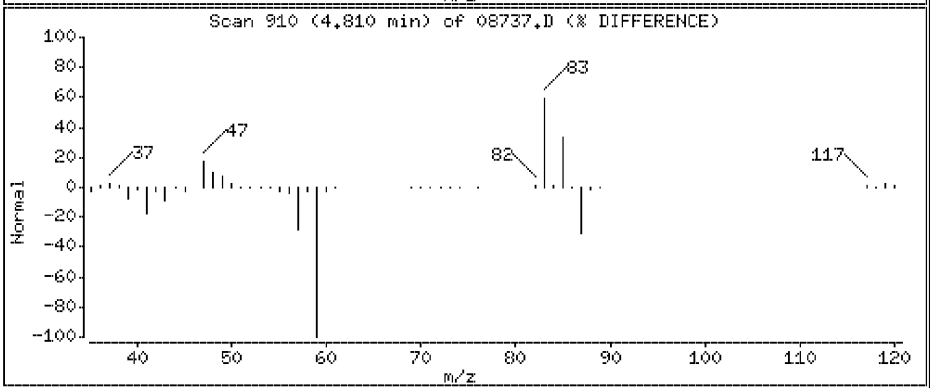
39 Chloroform

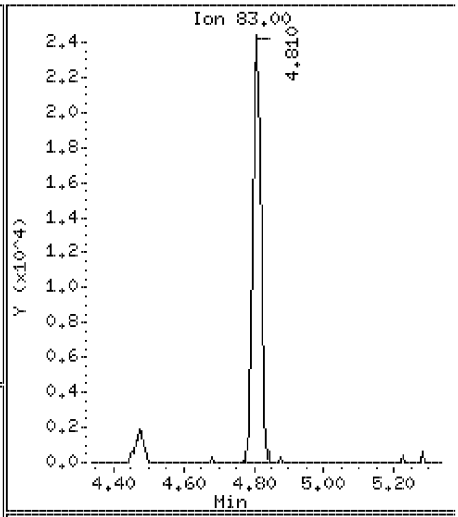
Concentration: 16.5 ppbv

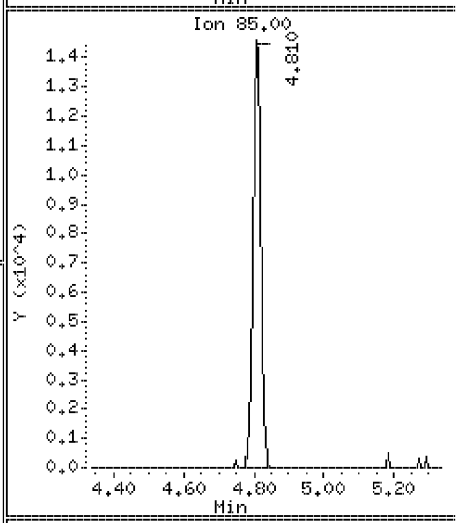


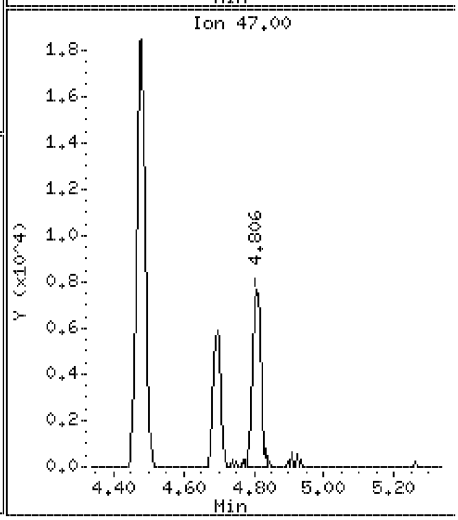












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D

Date : 29-MAR-2017 03:25

Client ID:

Instrument: 10airB.i

Sample Info:

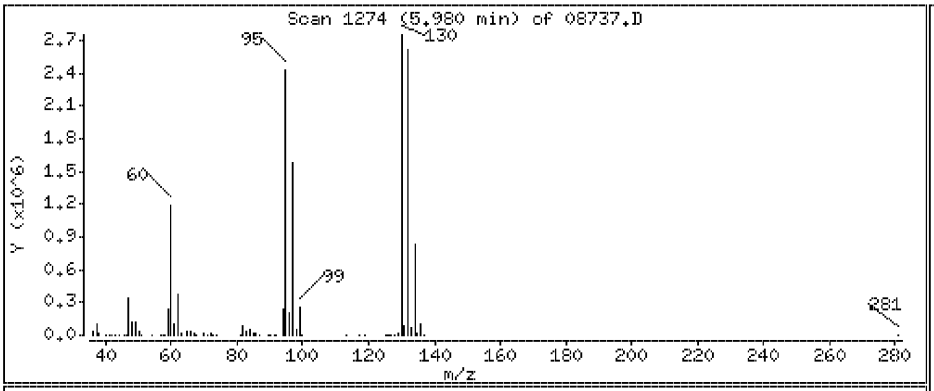
Operator: NCK

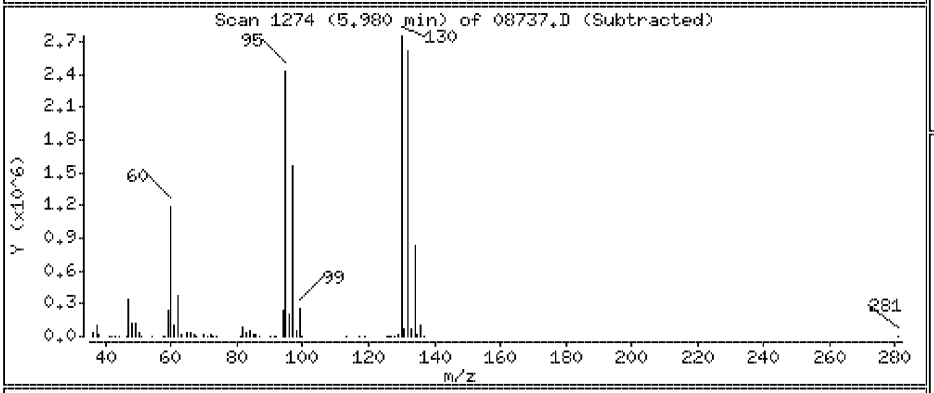
Column phase: J&W DB-5

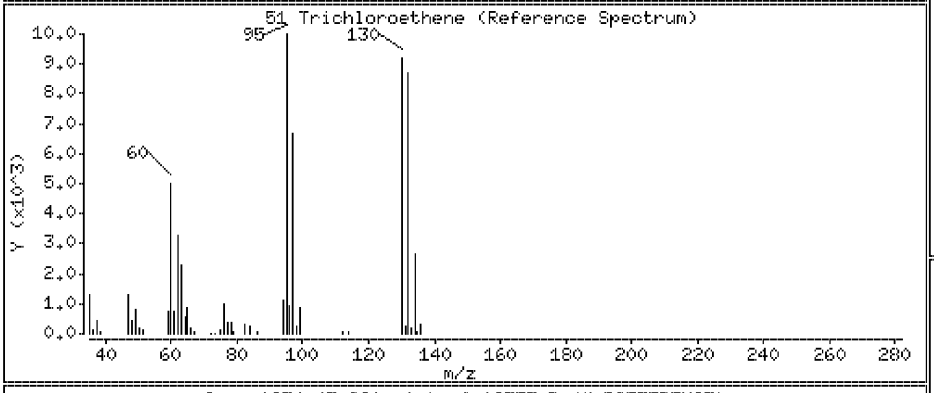
Column diameter: 0.32

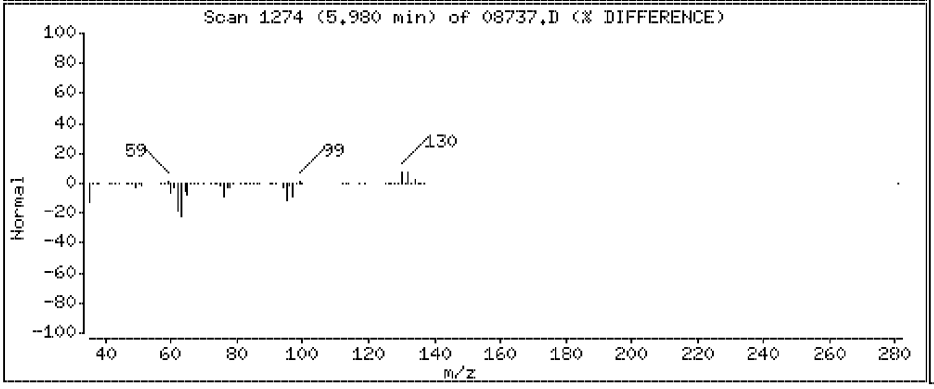
51 Trichloroethene

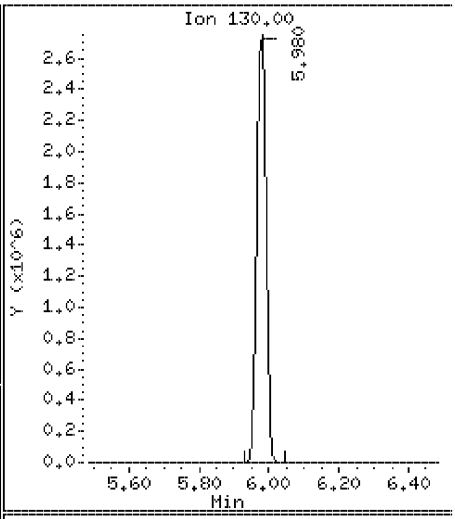
Concentration: 2560 ppbv

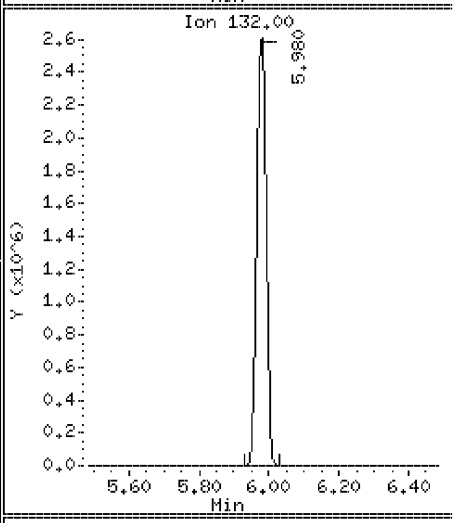


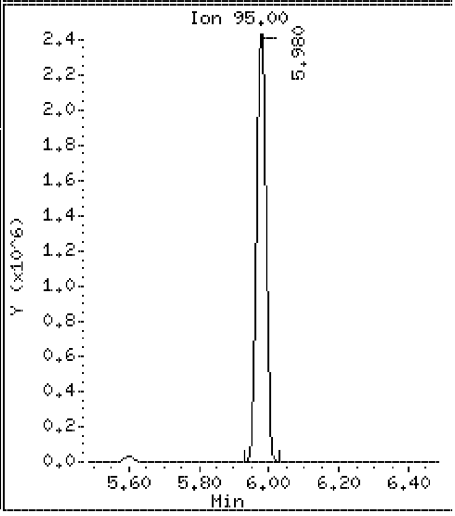












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08737.D

Date : 29-MAR-2017 03:25

Client ID:

Instrument: 10airB.i

Sample Info:

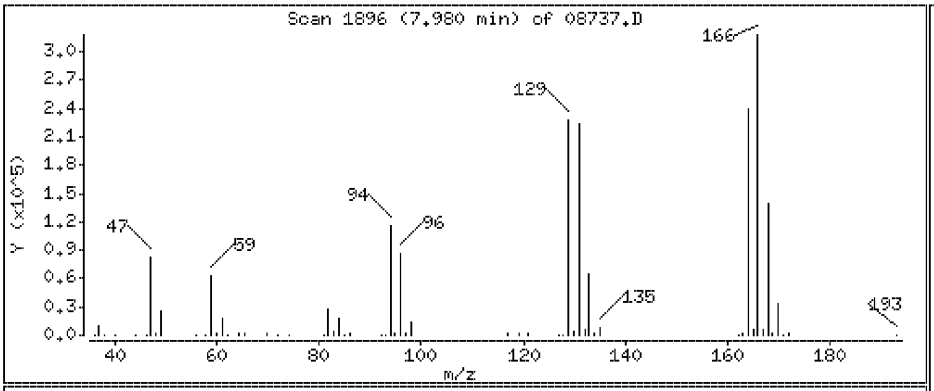
Operator: NCK

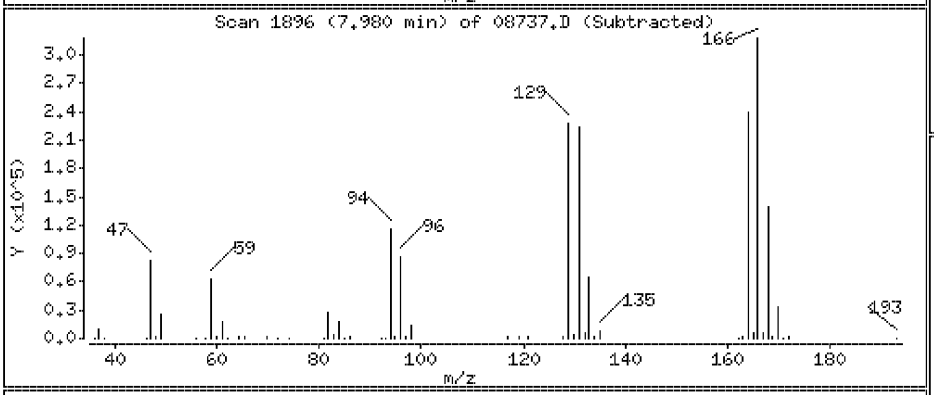
Column phase: J&W DB-5

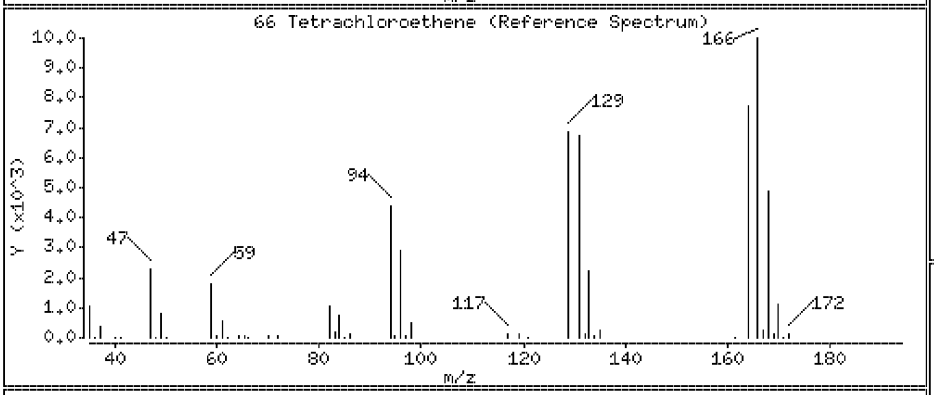
Column diameter: 0.32

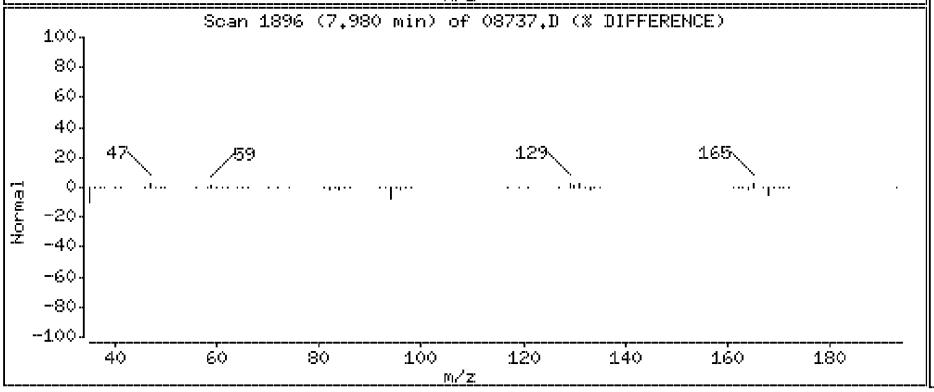
66 Tetrachloroethene

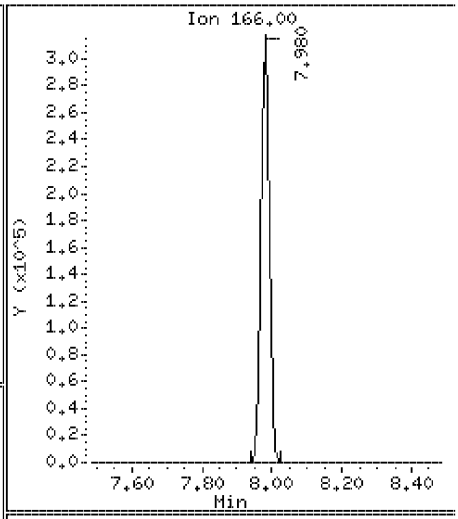
Concentration: 201 ppbv

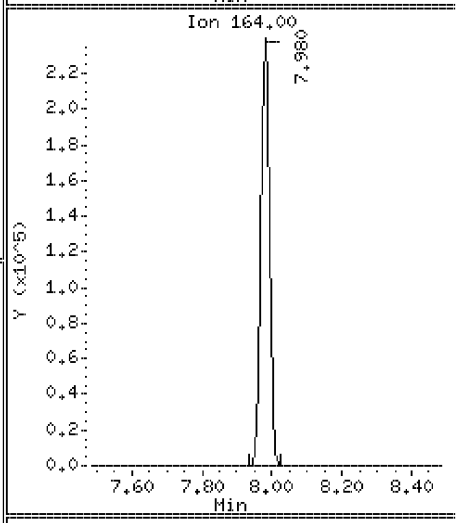


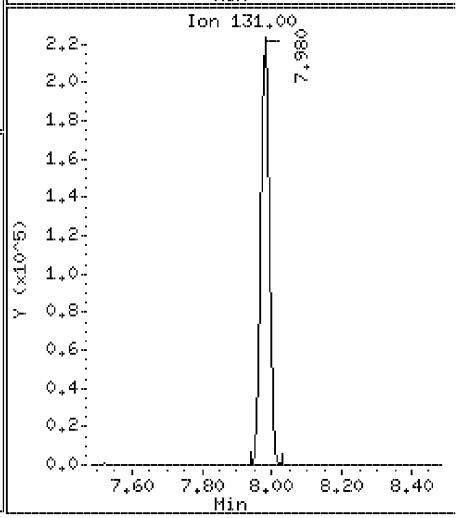






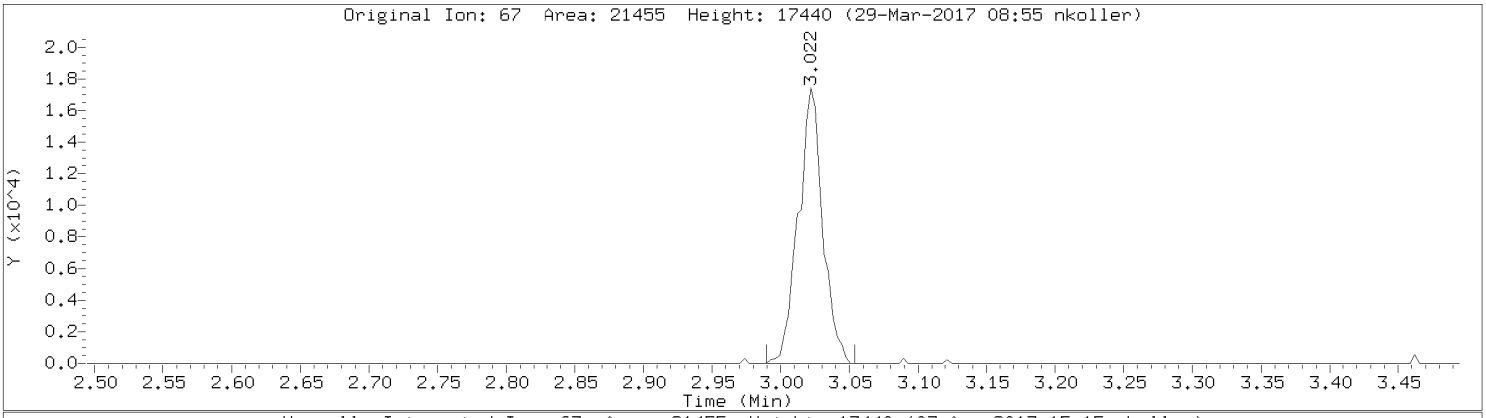


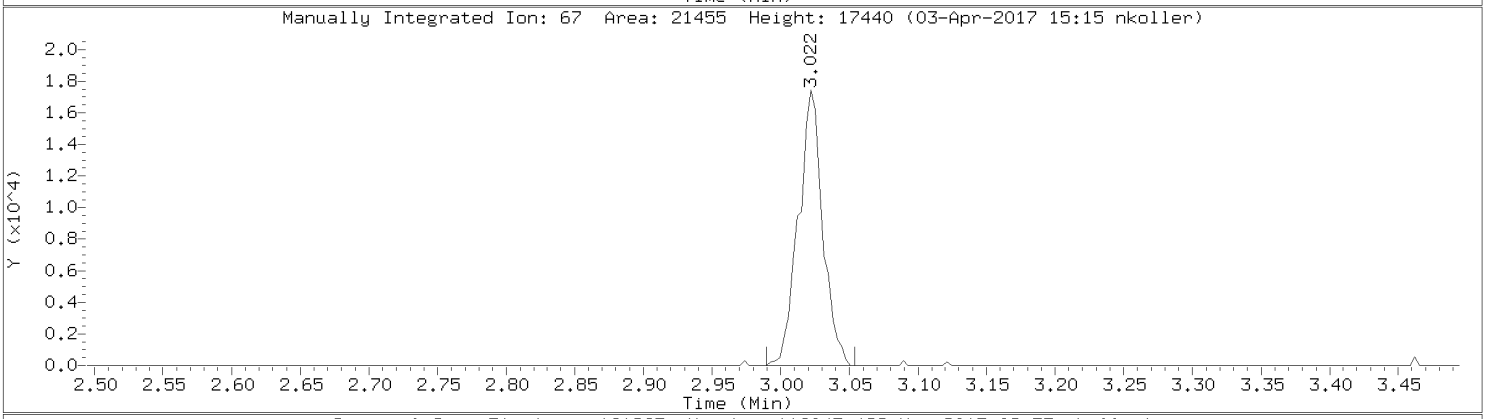


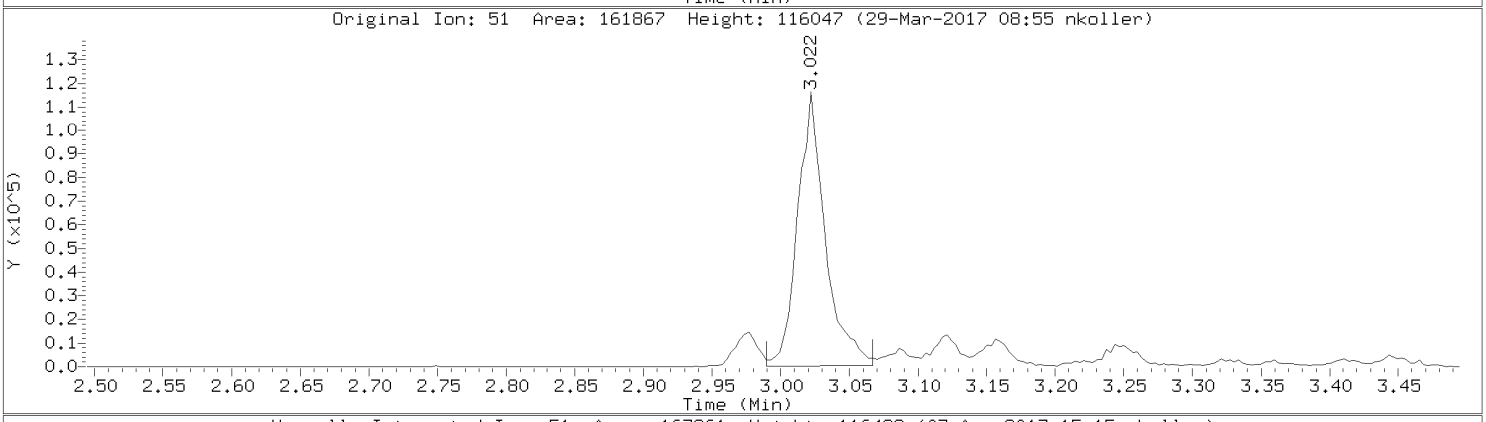


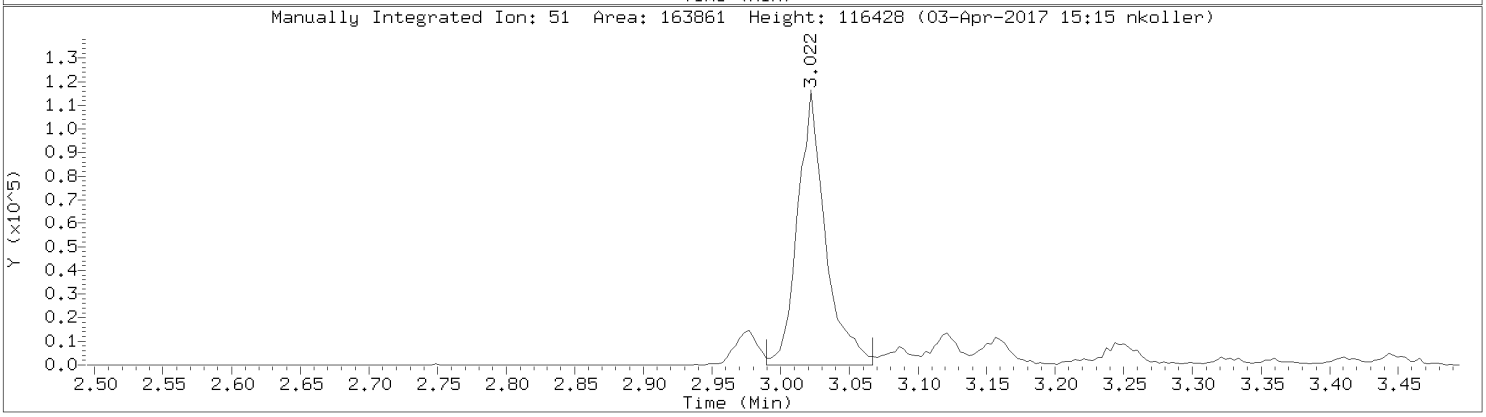
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08737.D
Injection Date: 29-MAR-2017 03:25
Instrument: 10airB.i
Lab Sample ID: 10381335008

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

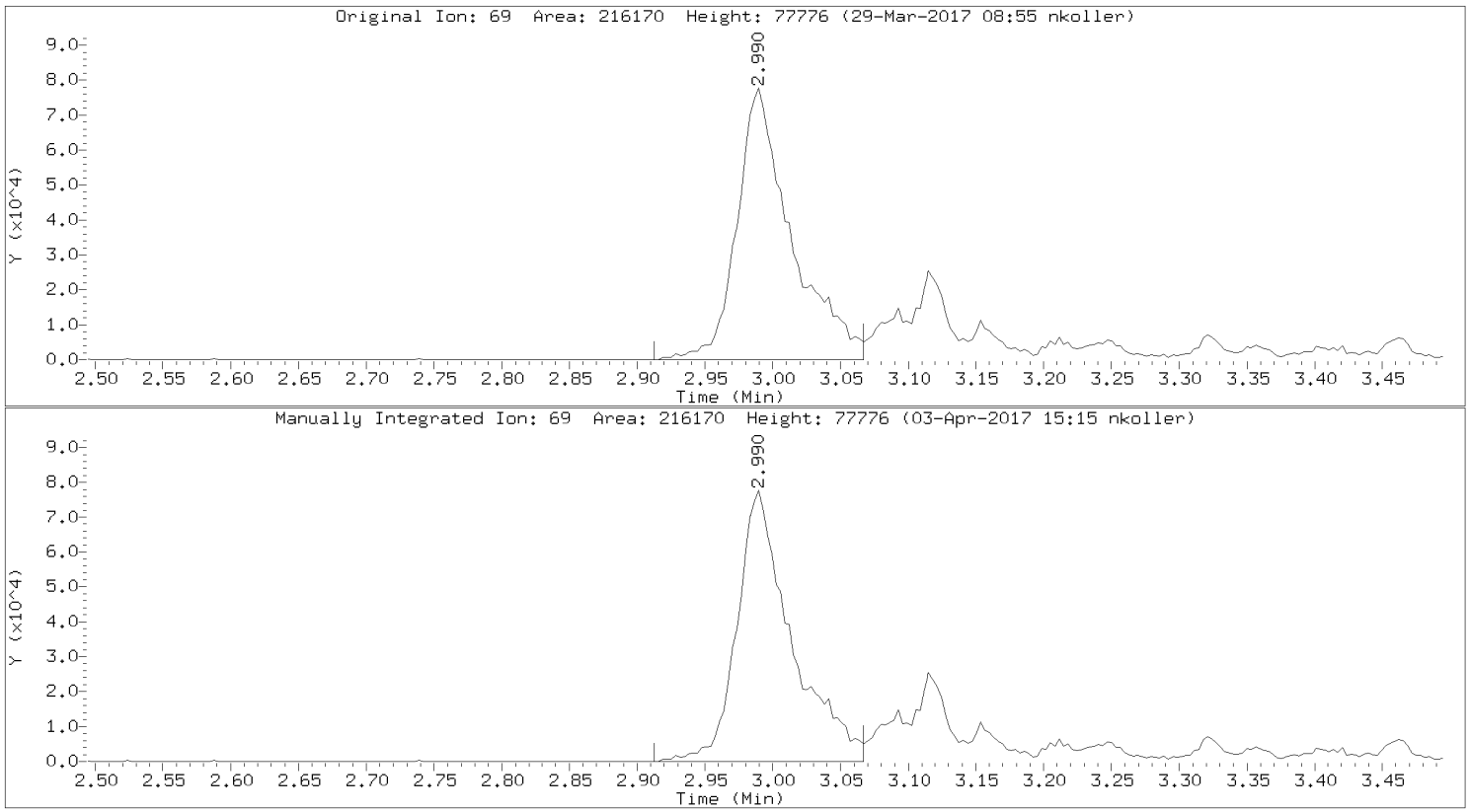








Data File: \\192.168.10.12\chem\10airB.i\032817.b/08737.D
Injection Date: 29-MAR-2017 03:25
Instrument: 10airB.i
Lab Sample ID: 10381335008



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08948.D
Report Date: 03-Apr-2017 14:04

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08948.D
Lab Smp Id: 10381335008
Inj Date : 31-MAR-2017 11:19
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 03-Apr-2017 09:10 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 48
Dil Factor: 268.80000
Integrator: HP RTE Compound Sublist: TCE.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	268.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
$	32 Hexane-d14(S)	66	4.484	4.491	(0.794)	735818	9.55274	9.55	
*	47 1,4-Difluorobenzene	114	5.600	5.616	(1.000)	2017470	10.0000		(H)
	51 Trichloroethene	130	5.976	5.992	(1.067)	1072997	13.8793	3730	(M)
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.252)	1598674	9.38489	9.38	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	1102026	10.0000		
$	85 1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	376301	7.48930	7.49	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08948.D
Report Date: 03-Apr-2017 14:04

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08948.D
Lab Smp Id: 10381335008
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info: 28028

Calibration Date: 30-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

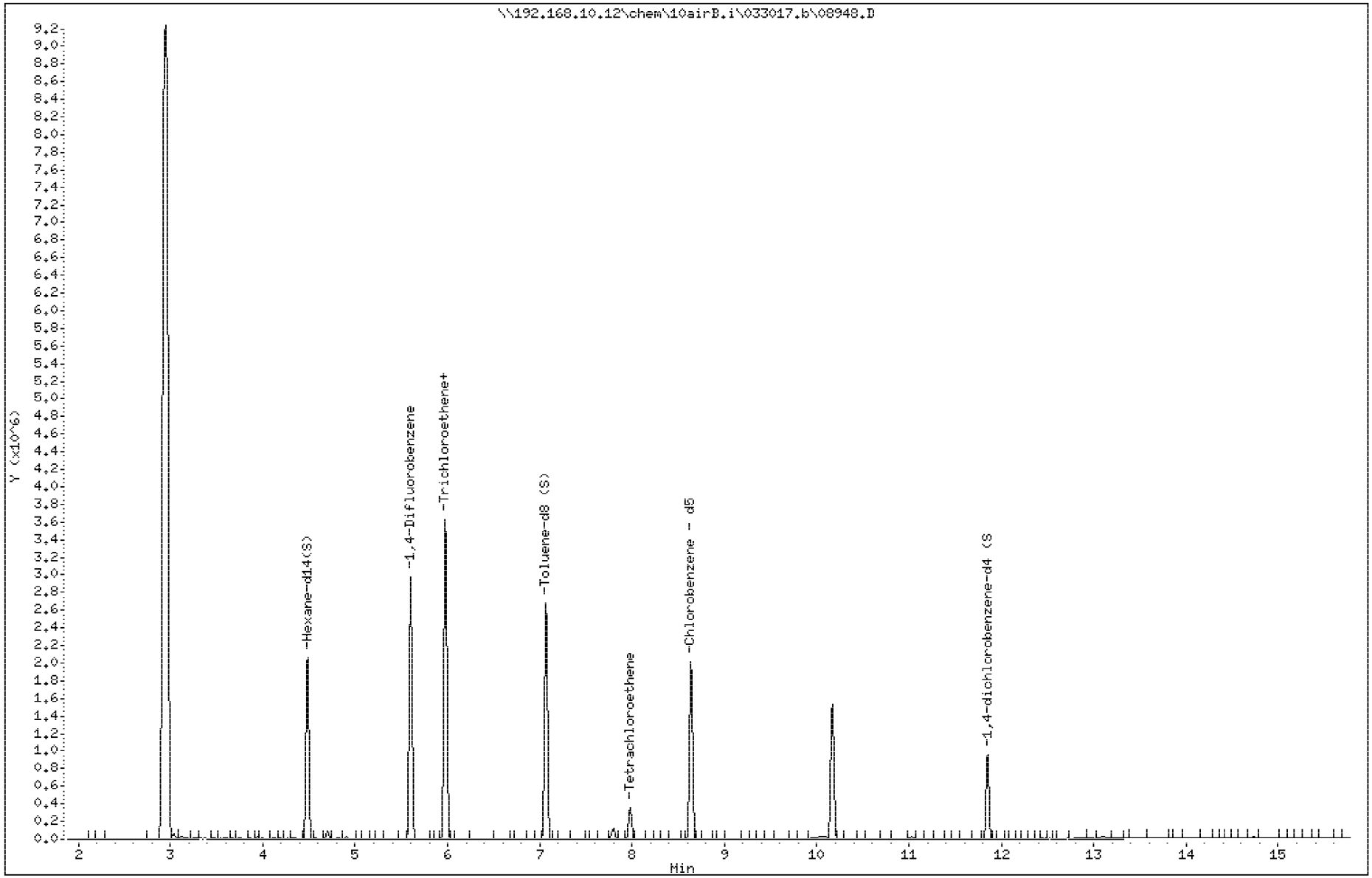
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	2017470	10.70
67 Chlorobenzene - d	1204744	722846	1686642	1102026	-8.53

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08948.D
Date : 31-MAR-2017 11:19
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08948.D

Date : 31-MAR-2017 11:19

Client ID:

Instrument: 10airB.i

Sample Info:

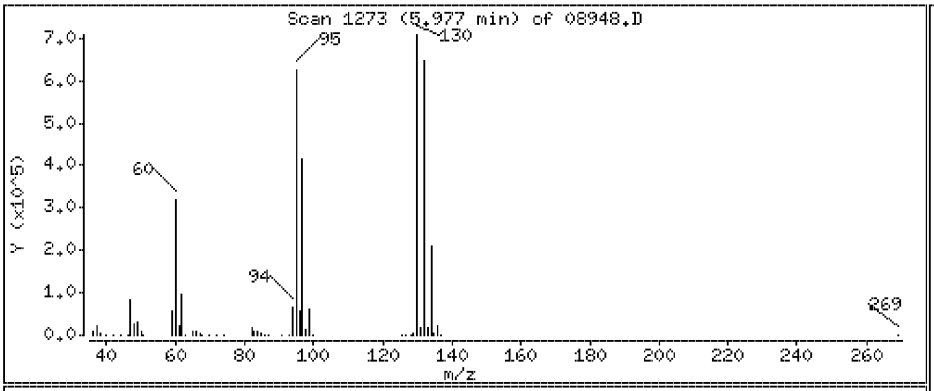
Operator: NCK

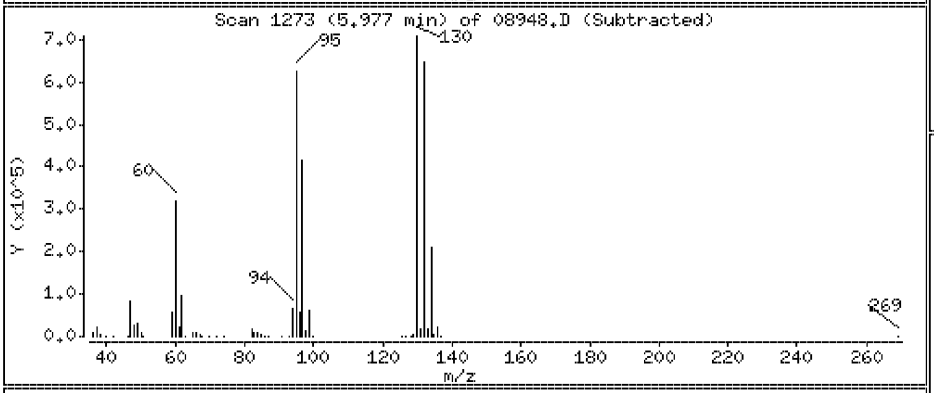
Column phase: J&W DB-5

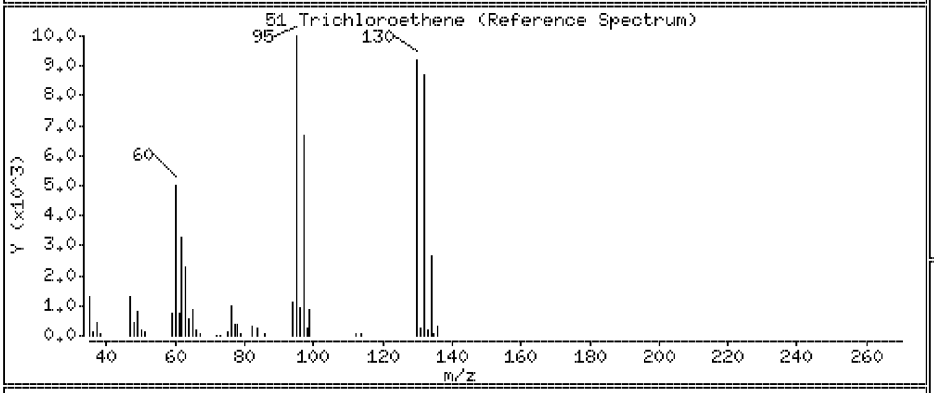
Column diameter: 0.32

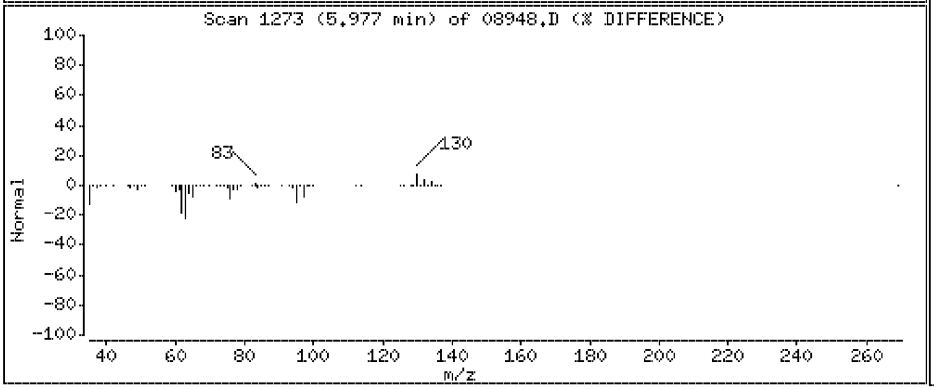
51 Trichloroethene

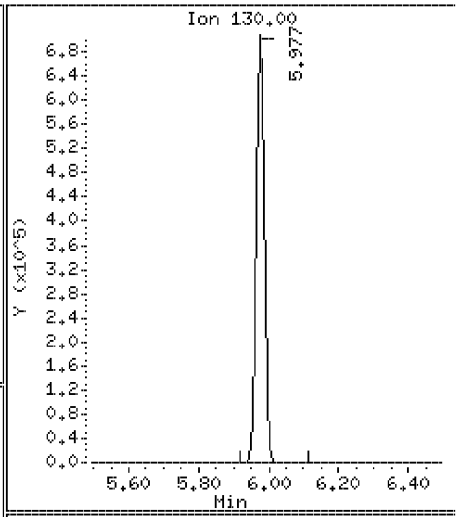
Concentration: 3730 ppbv

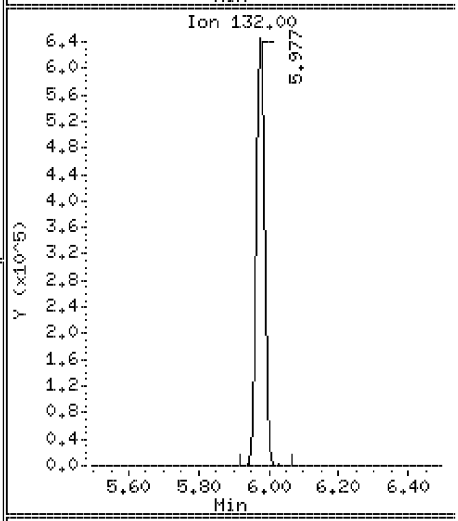


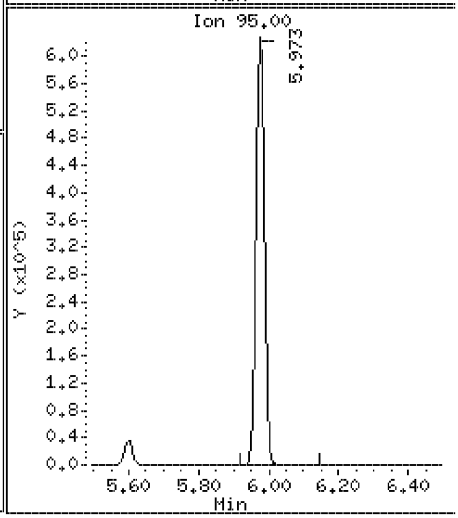












Data File: \\192.168.10.12\chem\10airB.i\033017.b/08947.D
Injection Date: 31-MAR-2017 10:50
Instrument: 10airB.i
Lab Sample ID: 10381335019
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_60_20170306 **Lab ID: 10381335008** Collected: 03/06/17 13:38 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Toluene	**<5.2**	ug/m3	25.9	5.2	33.6		03/29/17 03:25	108-88-3	
1,2,4-Trichlorobenzene	**<30.5**	ug/m3	127	30.5	33.6		03/29/17 03:25	120-82-1	
1,1,1-Trichloroethane	**<8.3**	ug/m3	37.3	8.3	33.6		03/29/17 03:25	71-55-6	
1,1,2-Trichloroethane	**<8.3**	ug/m3	18.5	8.3	33.6		03/29/17 03:25	79-00-5	
Trichloroethene	**14000**	ug/m3	18.5	9.3	33.6		03/29/17 03:25	79-01-6	
Trichloroethene	**20400**	ug/m3	148	74.2	268.8		03/31/17 11:19	79-01-6	A3
Trichlorofluoromethane	**25.6J**	ug/m3	38.3	4.4	33.6		03/29/17 03:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	**130**	ug/m3	53.8	10.1	33.6		03/29/17 03:25	76-13-1	
1,2,4-Trimethylbenzene	**<4.2**	ug/m3	33.6	4.2	33.6		03/29/17 03:25	95-63-6	
1,3,5-Trimethylbenzene	**<6.1**	ug/m3	33.6	6.1	33.6		03/29/17 03:25	108-67-8	
Vinyl chloride	**<6.6**	ug/m3	8.7	6.6	33.6		03/29/17 03:25	75-01-4	
m&p-Xylene	**<26.4**	ug/m3	59.5	26.4	33.6		03/29/17 03:25	179601-23-1	
o-Xylene	**<11.8**	ug/m3	29.6	11.8	33.6		03/29/17 03:25	95-47-6	

Sample: VP-107_74_20170306 **Lab ID: 10381335009** Collected: 03/06/17 13:12 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<30.5**	ug/m3	88.4	30.5	36.6		03/29/17 03:53	67-64-1	
Allyl chloride	**<8.3**	ug/m3	58.2	8.3	36.6		03/29/17 03:53	107-05-1	
Benzene	**<4.5**	ug/m3	11.9	4.5	36.6		03/29/17 03:53	71-43-2	
Bromodichloromethane	**<7.1**	ug/m3	49.8	7.1	36.6		03/29/17 03:53	75-27-4	
Bromoform	**<33.0**	ug/m3	76.9	33.0	36.6		03/29/17 03:53	75-25-2	
Bromomethane	**<11.3**	ug/m3	28.9	11.3	36.6		03/29/17 03:53	74-83-9	
1,3-Butadiene	**<6.4**	ug/m3	16.5	6.4	36.6		03/29/17 03:53	106-99-0	
2-Butanone (MEK)	**<8.3**	ug/m3	110	8.3	36.6		03/29/17 03:53	78-93-3	
Carbon disulfide	**<3.7**	ug/m3	23.1	3.7	36.6		03/29/17 03:53	75-15-0	
Carbon tetrachloride	**<7.1**	ug/m3	23.4	7.1	36.6		03/29/17 03:53	56-23-5	
Chlorobenzene	**<4.9**	ug/m3	34.4	4.9	36.6		03/29/17 03:53	108-90-7	
Chlorodifluoromethane	**181**	ug/m3	26.3	10.1	36.6		03/29/17 03:53	75-45-6	
Chloroethane	**<7.1**	ug/m3	19.8	7.1	36.6		03/29/17 03:53	75-00-3	
Chloroform	**69.1**	ug/m3	18.2	7.0	36.6		03/29/17 03:53	67-66-3	
Chloromethane	**<4.0**	ug/m3	15.4	4.0	36.6		03/29/17 03:53	74-87-3	
Chloropentafluoroethane	**<117**	ug/m3	117	117	36.6		03/29/17 03:53	76-15-3	
Cyclohexane	**<11.6**	ug/m3	25.6	11.6	36.6		03/29/17 03:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<180**	ug/m3	180	180	36.6		03/29/17 03:53	96-12-8	
Dibromochloromethane	**<31.3**	ug/m3	63.3	31.3	36.6		03/29/17 03:53	124-48-1	
1,2-Dibromoethane (EDB)	**<28.3**	ug/m3	57.1	28.3	36.6		03/29/17 03:53	106-93-4	
1,2-Dichlorobenzene	**<18.7**	ug/m3	44.7	18.7	36.6		03/29/17 03:53	95-50-1	
1,3-Dichlorobenzene	**<19.4**	ug/m3	44.7	19.4	36.6		03/29/17 03:53	541-73-1	
1,4-Dichlorobenzene	**<18.3**	ug/m3	44.7	18.3	36.6		03/29/17 03:53	106-46-7	
Dichlorodifluoromethane	**<17.6**	ug/m3	37.0	17.6	36.6		03/29/17 03:53	75-71-8	
1,1-Dichloroethane	**<5.7**	ug/m3	30.0	5.7	36.6		03/29/17 03:53	75-34-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D
Report Date: 03-Apr-2017 15:17

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08738.D
Lab Smp Id: 10381335009
Inj Date : 29-MAR-2017 03:53
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 38
Dil Factor: 36.60000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	36.600	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.031	2.996	(0.541)	15369	1.37243	50.2(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.938	3.938	(0.703)	29119	0.42996	15.7	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D
Report Date: 03-Apr-2017 15:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.478	(0.800)	776798	9.46057	9.46	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.700	4.722	(0.839)	74408	2.04944	75.0(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.815	4.838	(0.859)	27401	0.38045	13.9	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.603	5.610	(1.000)	2188820	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.976	5.986	(1.067)	1935807	29.2168	1070	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.073	(1.262)	1804620	9.77964	9.78	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.147	7.150	(1.275)	24137	0.15711	5.75	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	366174	4.32959	158	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	1291375	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D
Report Date: 03-Apr-2017 15:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	482762	7.87490	7.87
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D
Report Date: 03-Apr-2017 15:17

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08738.D
Lab Smp Id: 10381335009
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

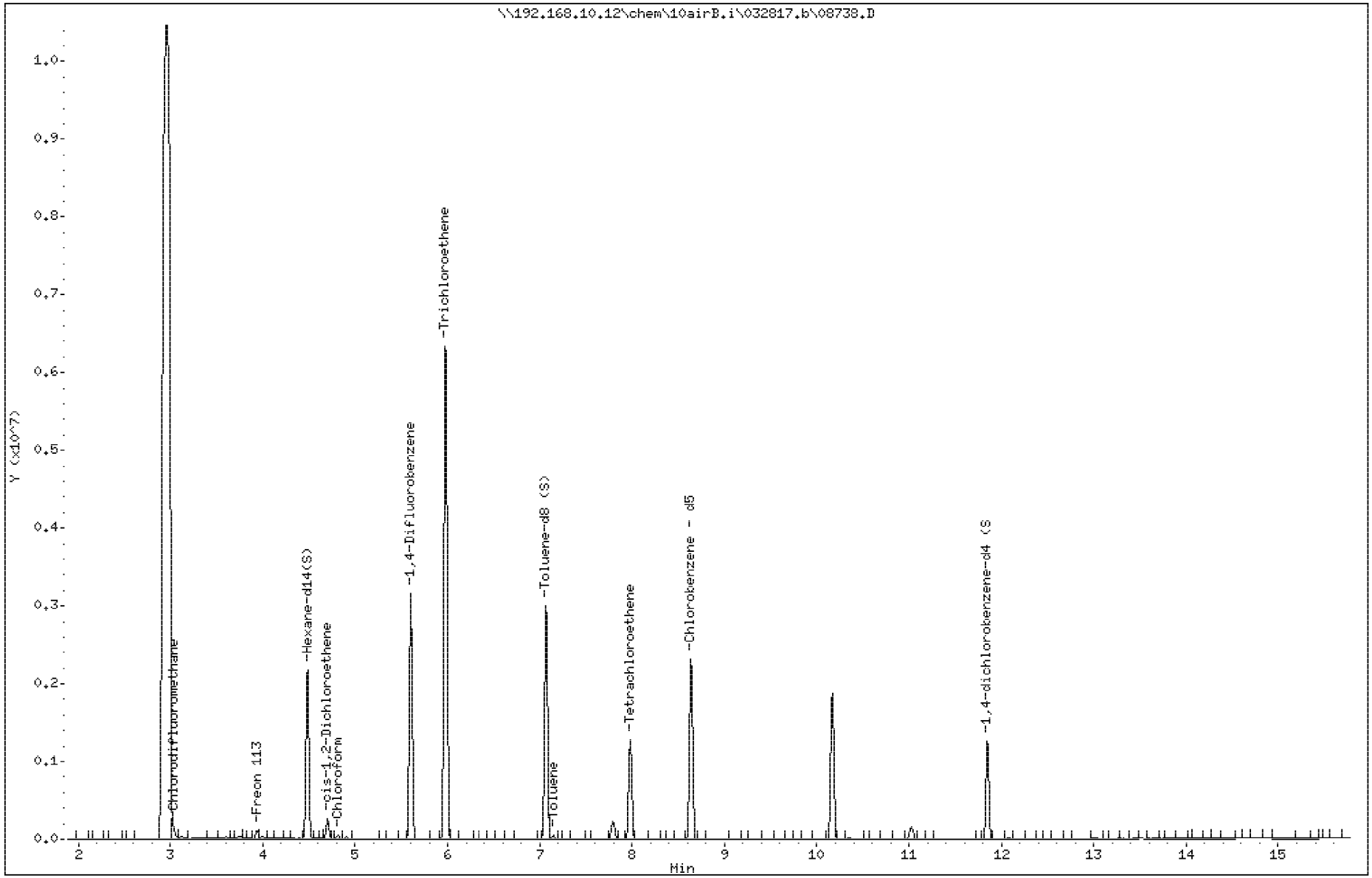
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2188820	-22.70
67 Chlorobenzene - d	1804482	1082689	2526275	1291375	-28.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.11
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D
Date : 29-MAR-2017 03:53
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D

Date : 29-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

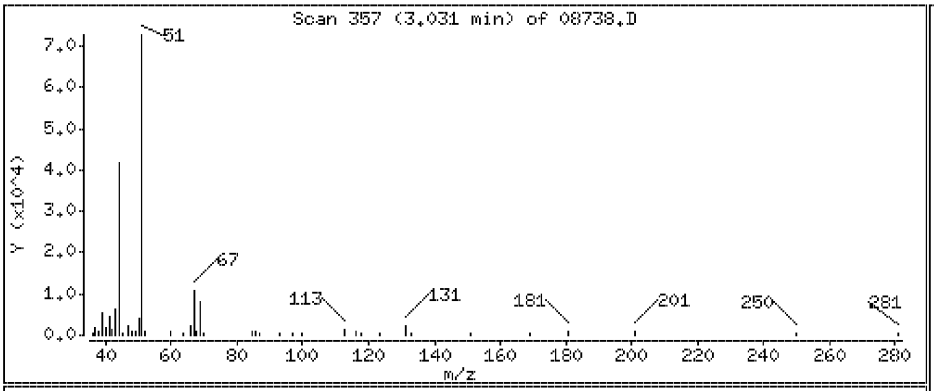
Operator: NCK

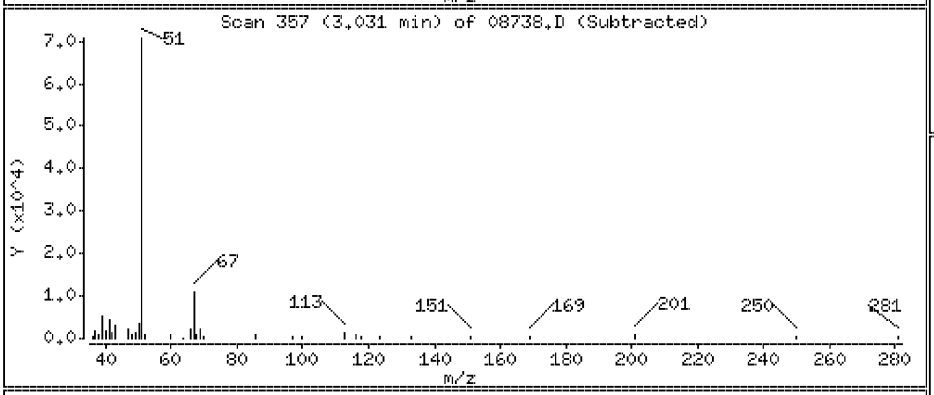
Column phase: J&W DB-5

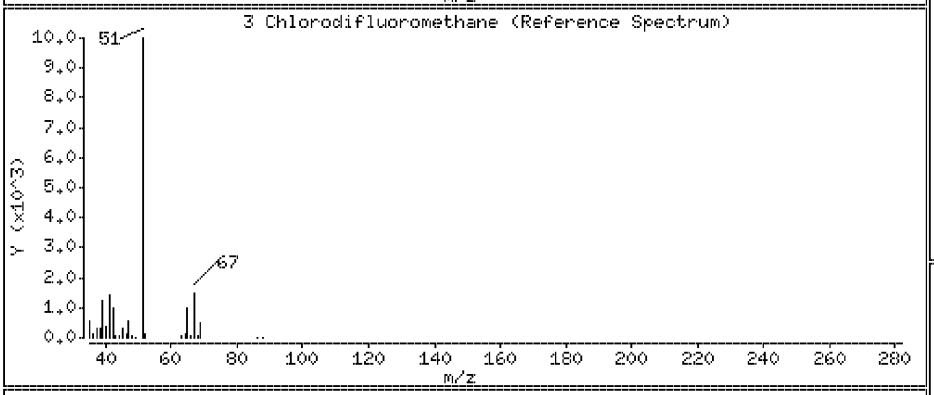
Column diameter: 0.32

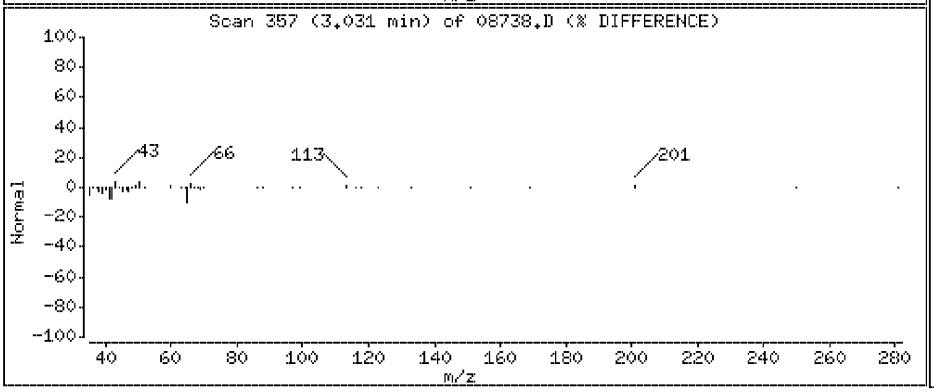
3 Chlorodifluoromethane

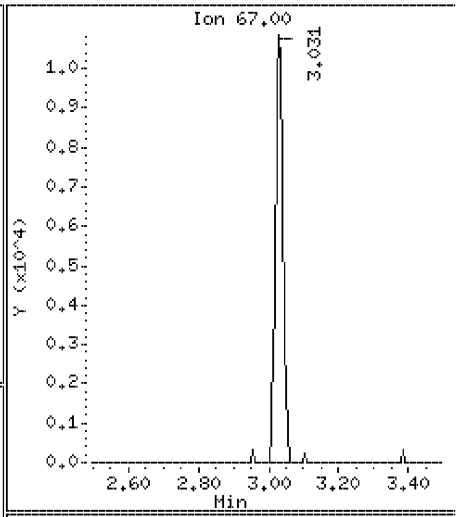
Concentration: 50.2 ppbv

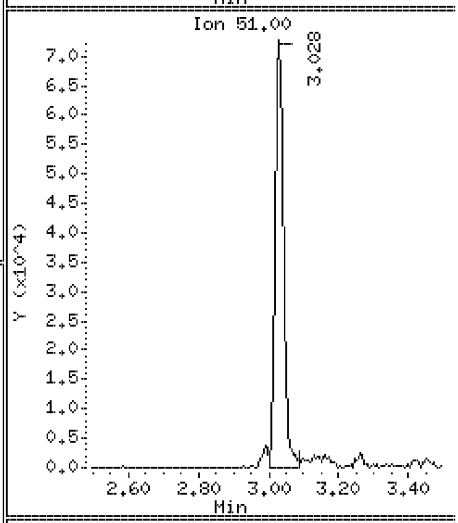


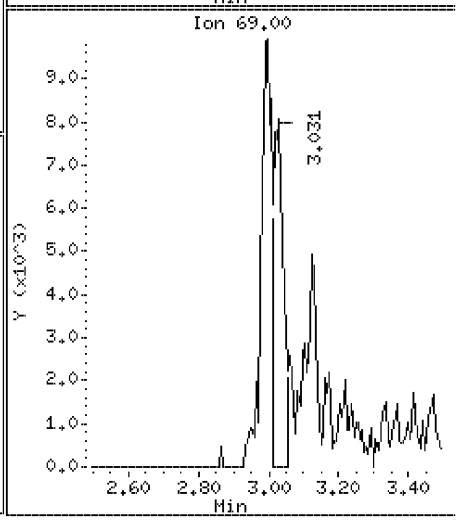












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D

Date : 29-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

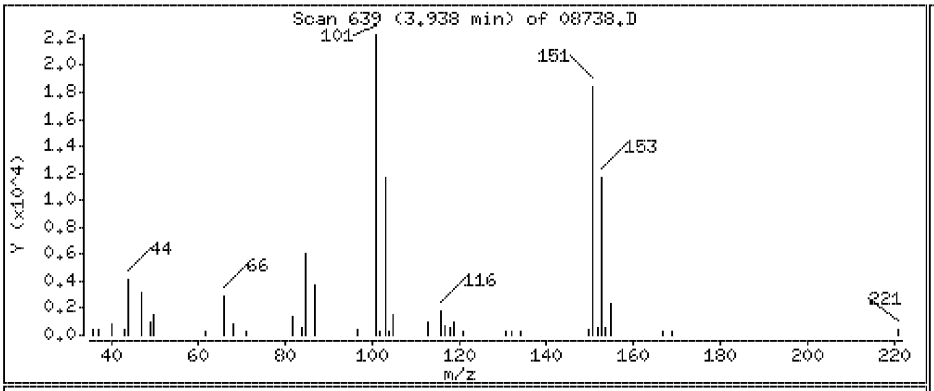
Operator: NCK

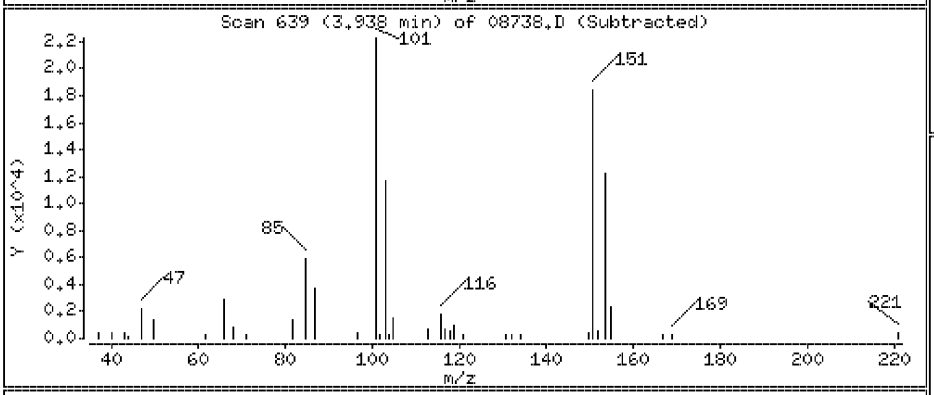
Column phase: J&W DB-5

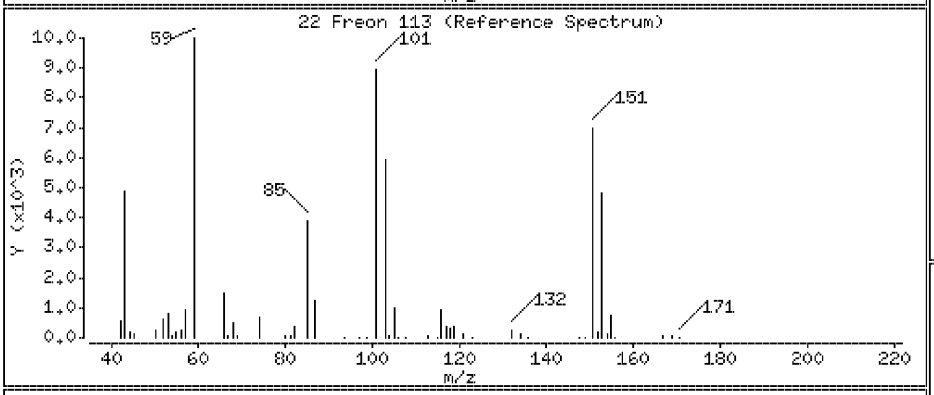
Column diameter: 0.32

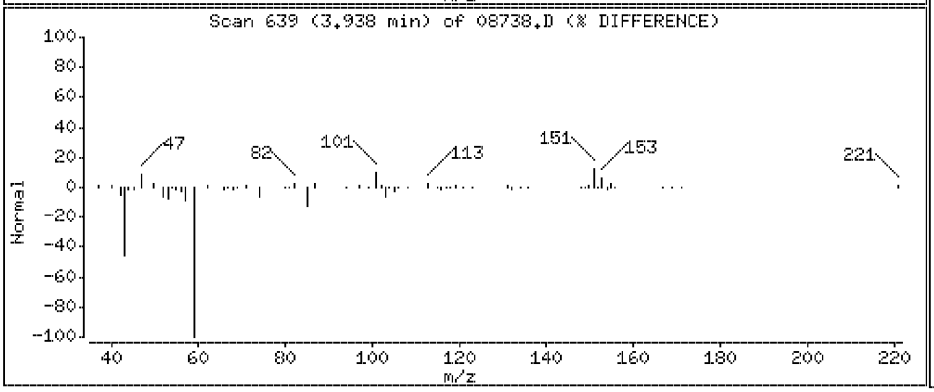
22 Freon 113

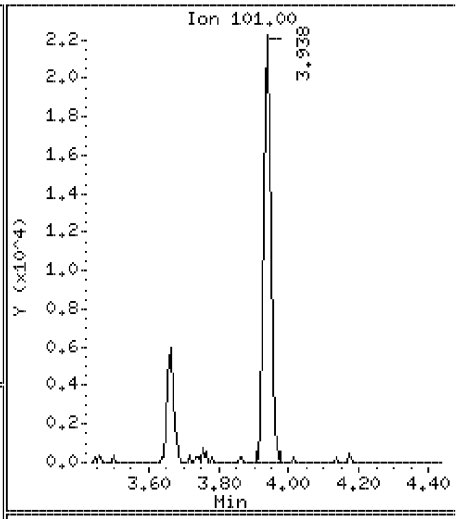
Concentration: 15.7 ppbv

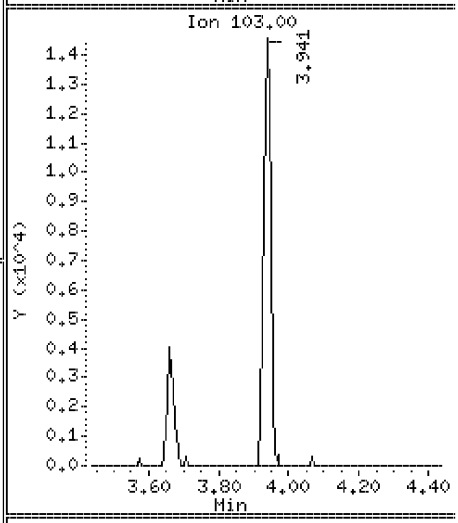


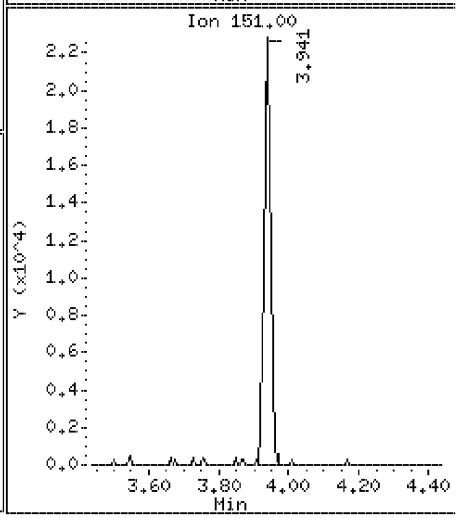












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D

Date : 29-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

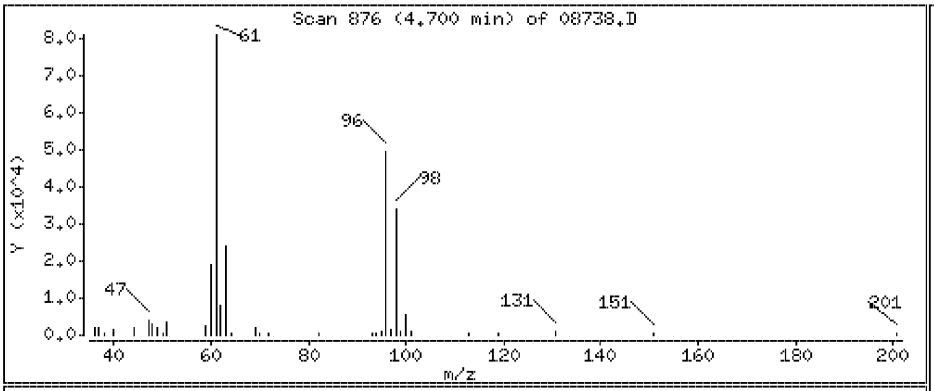
Operator: NCK

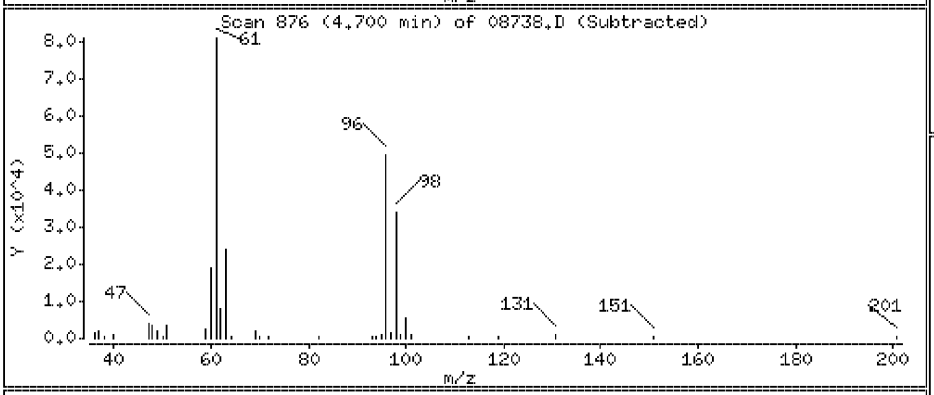
Column phase: J&W DB-5

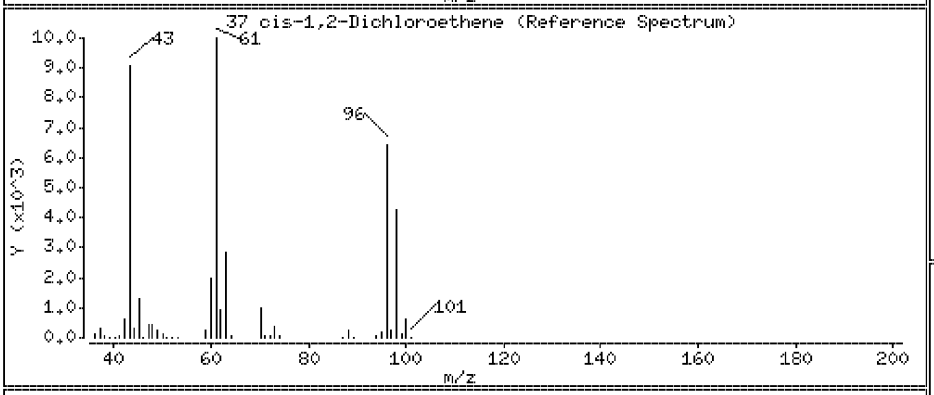
Column diameter: 0.32

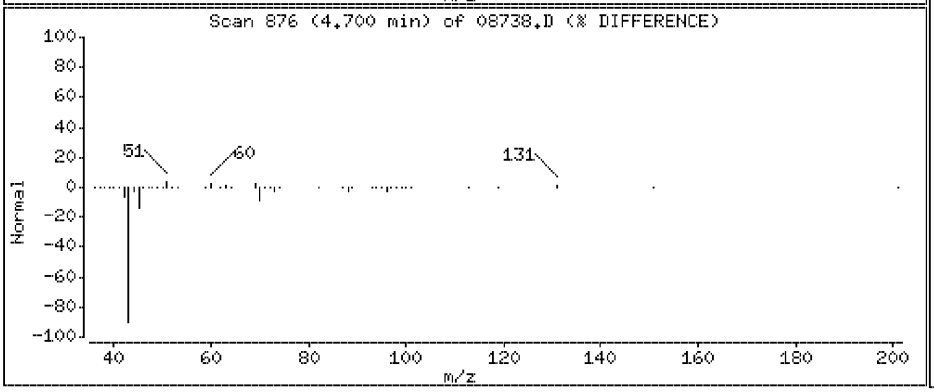
37 cis-1,2-Dichloroethene

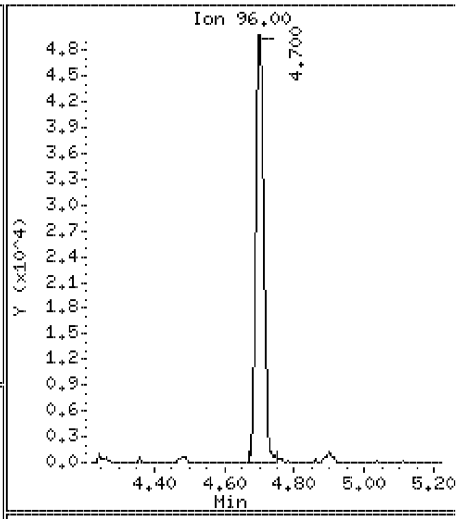
Concentration: 75.0 ppbv

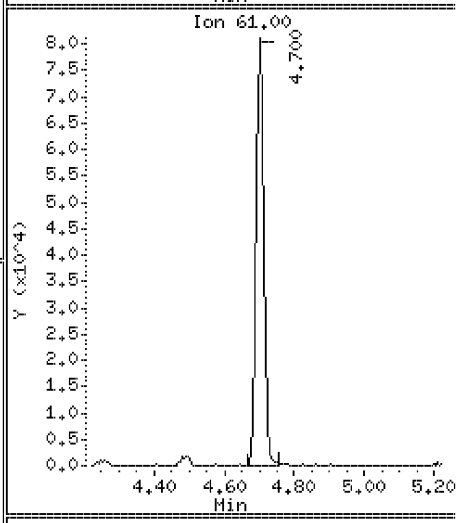


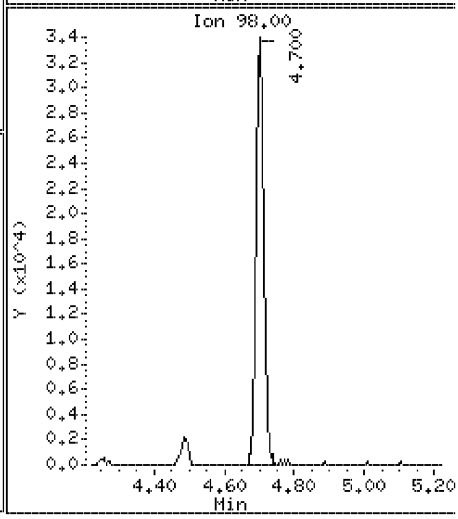












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D

Date : 29-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

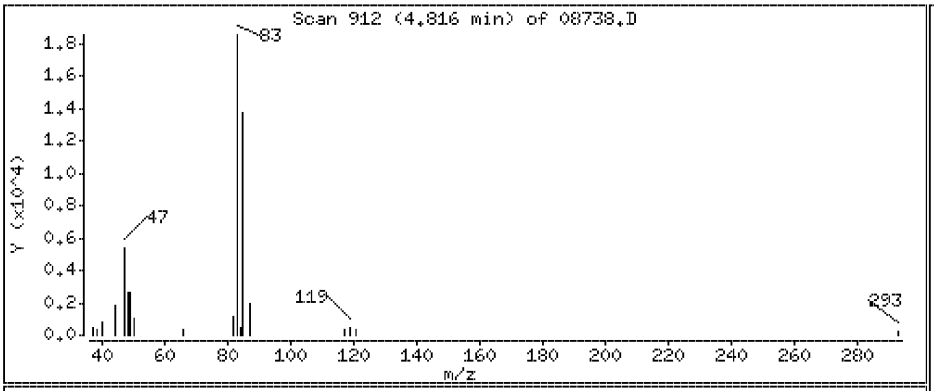
Operator: NCK

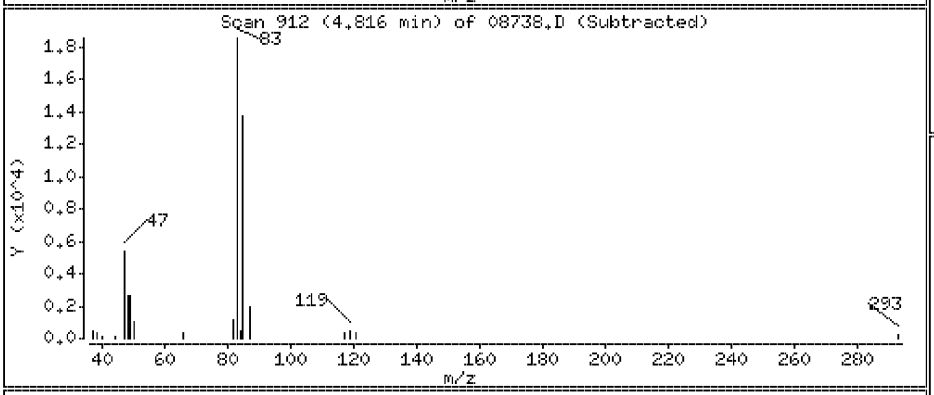
Column phase: J&W DB-5

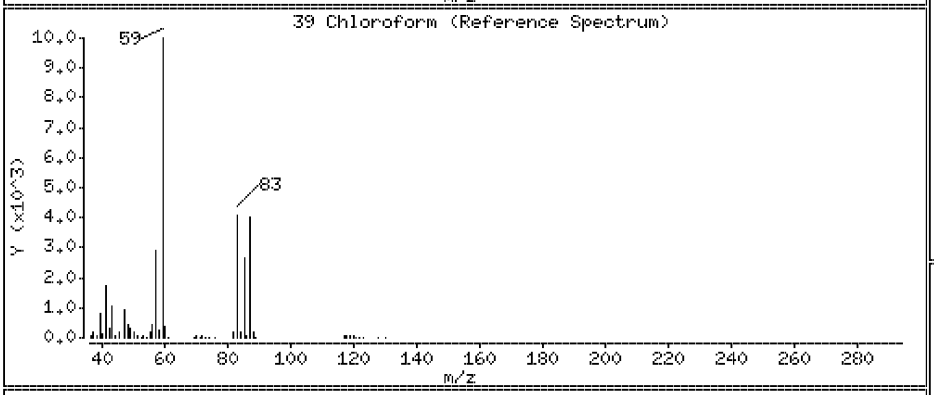
Column diameter: 0.32

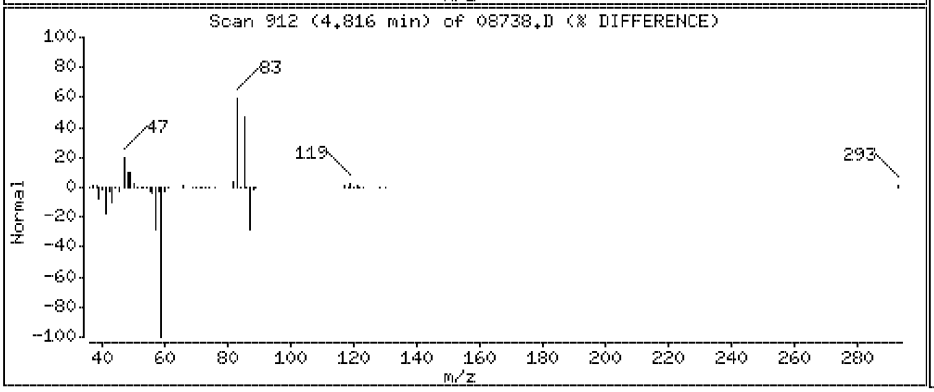
39 Chloroform

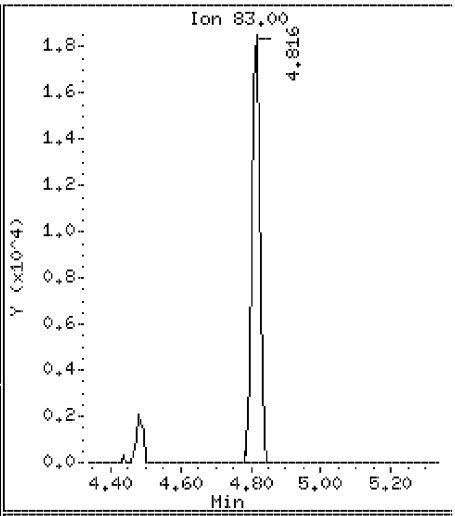
Concentration: 13.9 ppbv

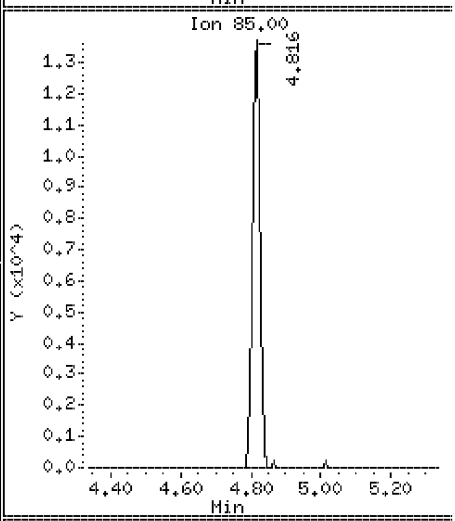


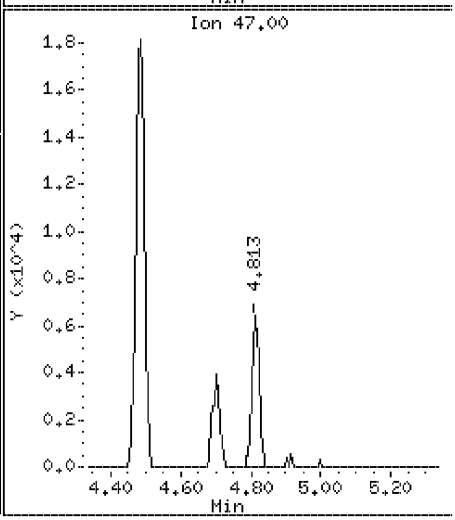












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D

Date : 29-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

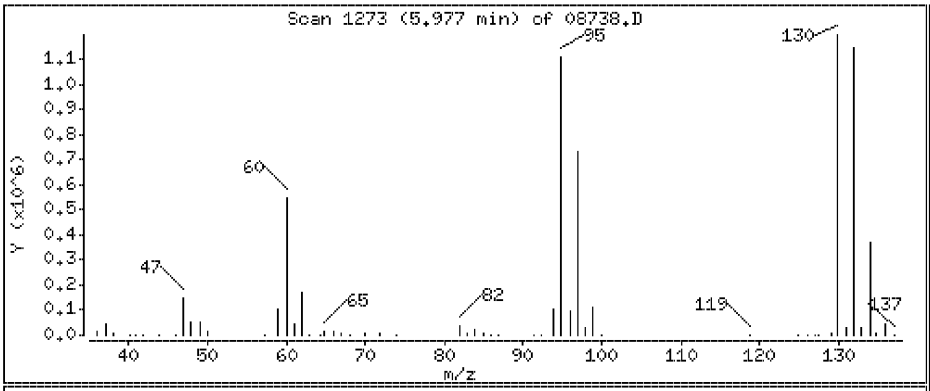
Operator: NCK

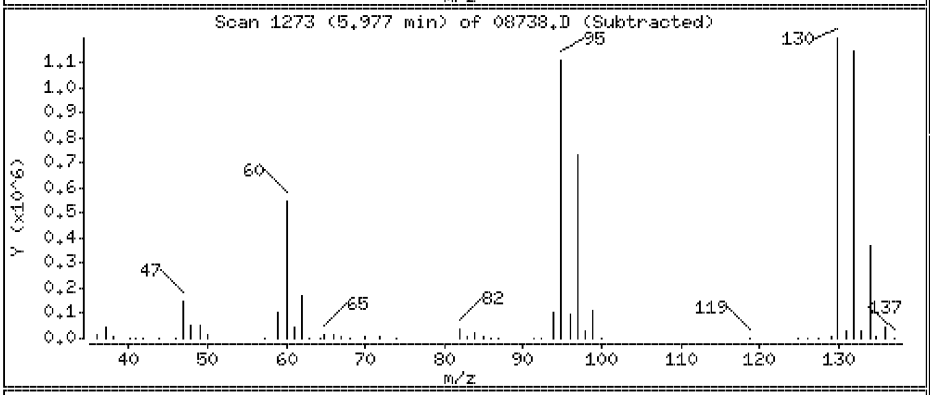
Column phase: J&W DB-5

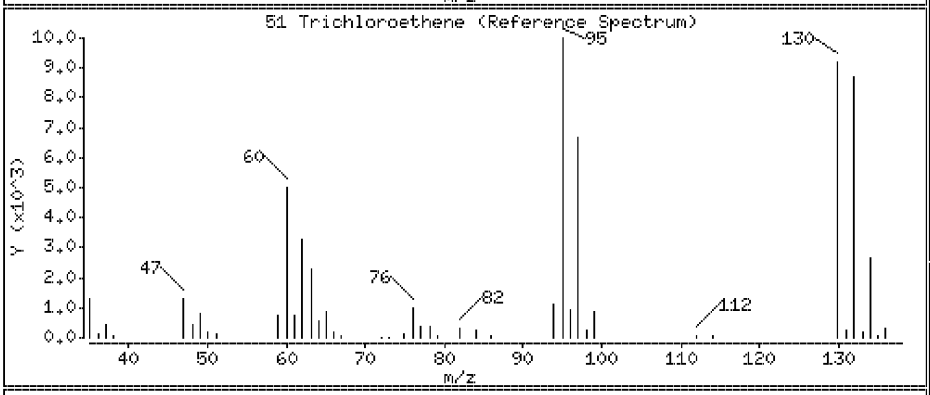
Column diameter: 0.32

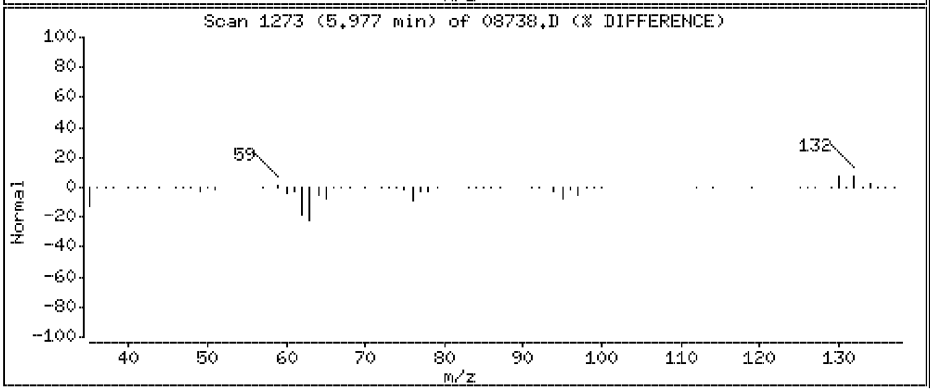
51 Trichloroethene

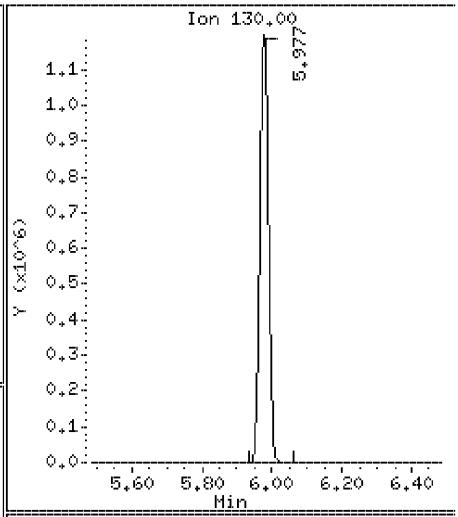
Concentration: 1070 ppbv

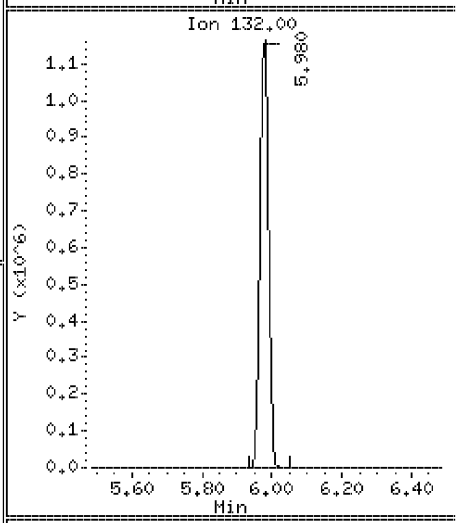


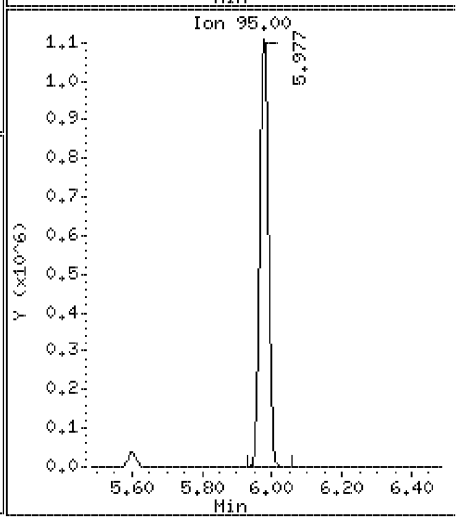












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D

Date : 29-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

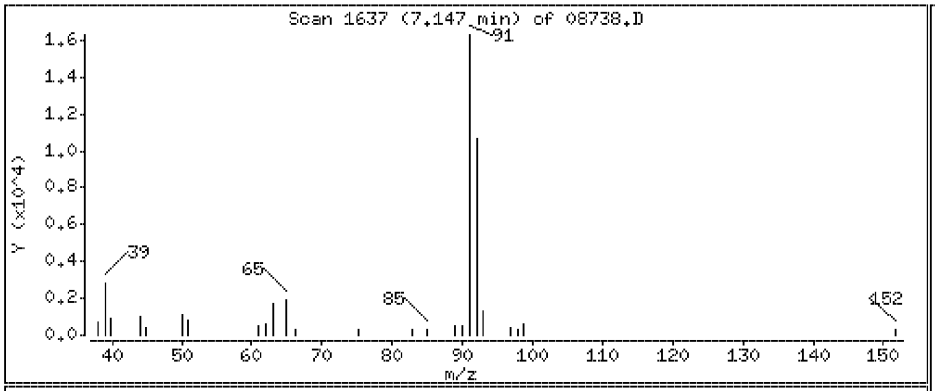
Operator: NCK

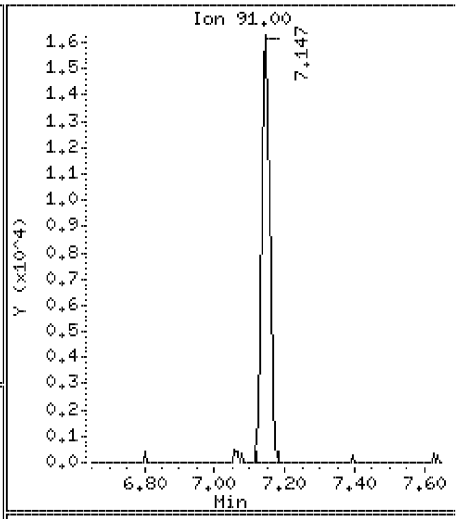
Column phase: J&W DB-5

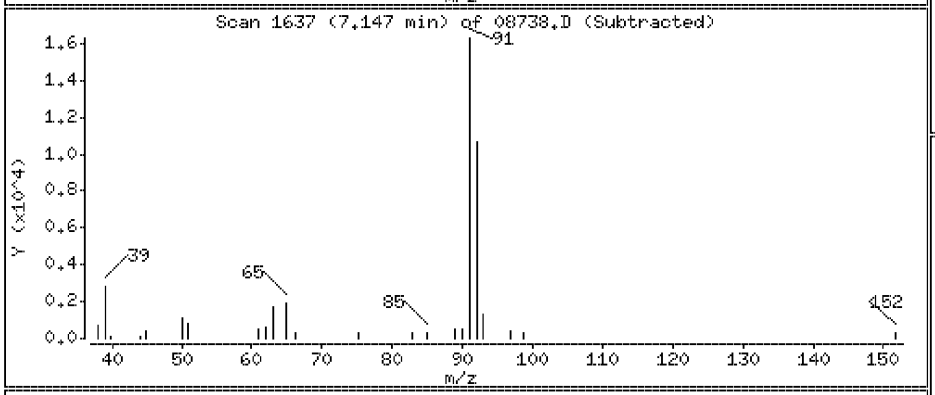
Column diameter: 0.32

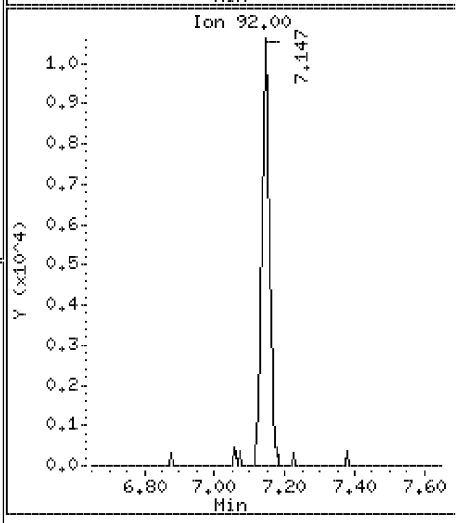
61 Toluene

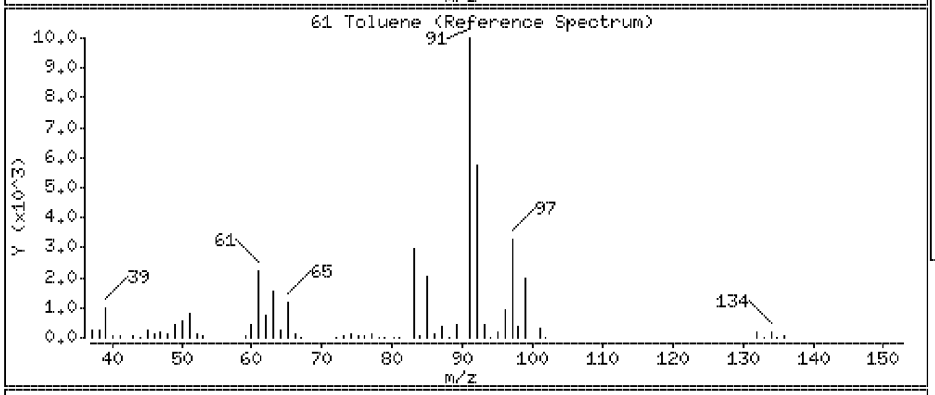
Concentration: 5.75 ppbv

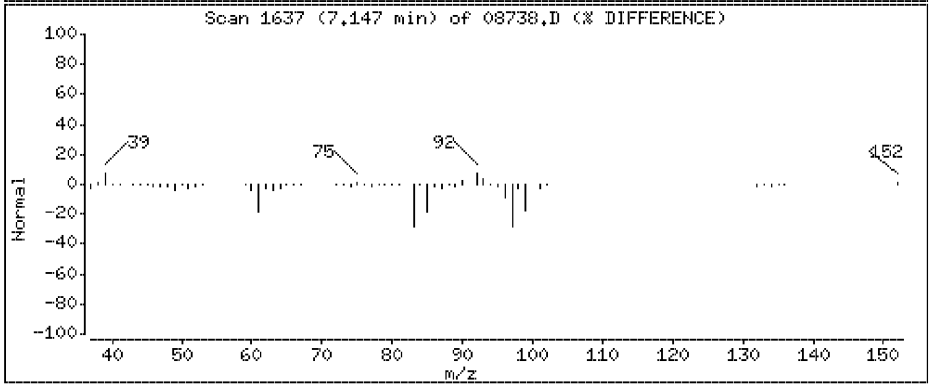












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08738.D

Date : 29-MAR-2017 03:53

Client ID:

Instrument: 10airB.i

Sample Info:

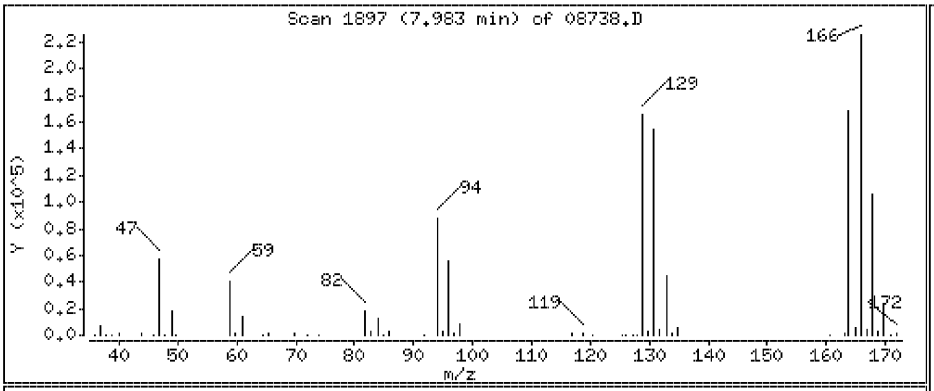
Operator: NCK

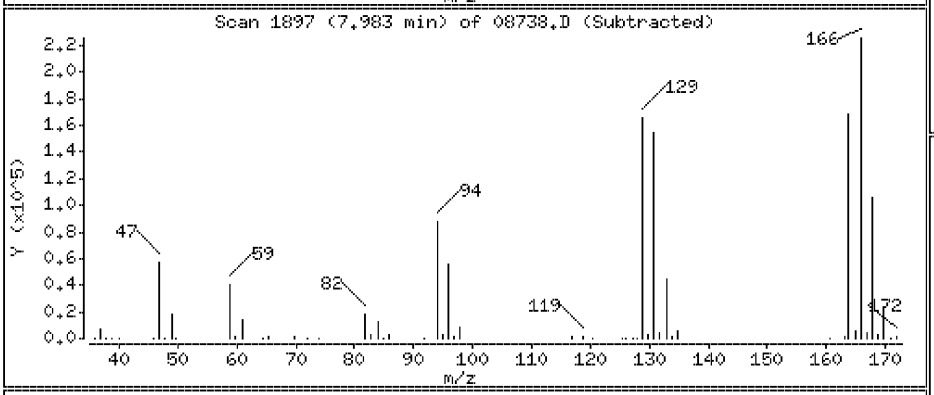
Column phase: J&W DB-5

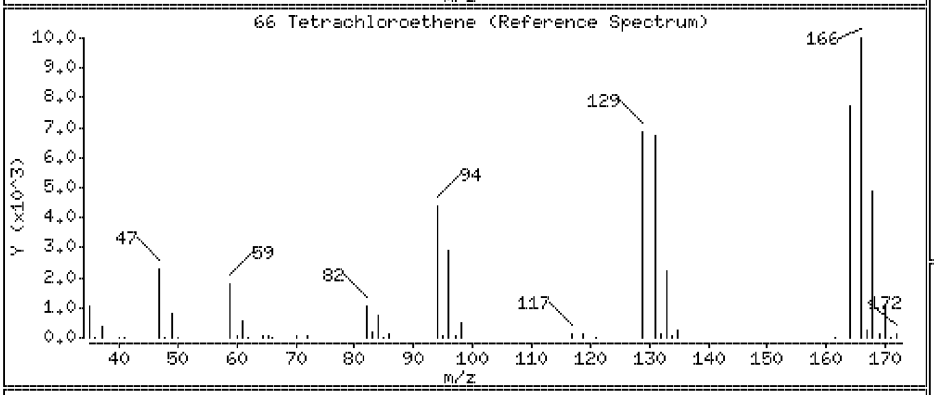
Column diameter: 0.32

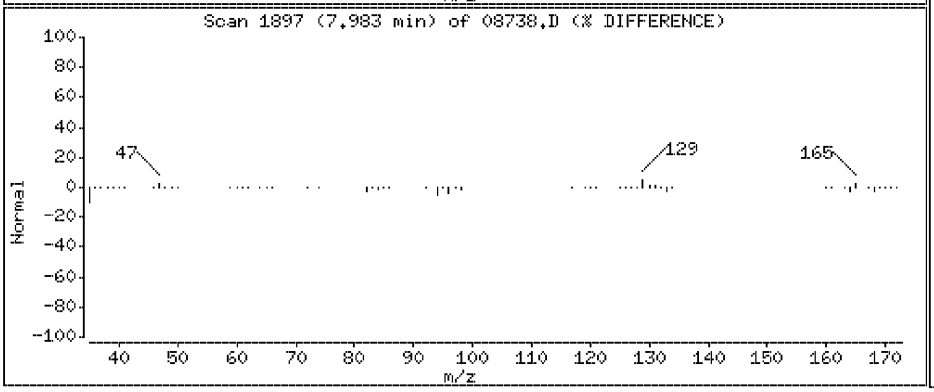
66 Tetrachloroethene

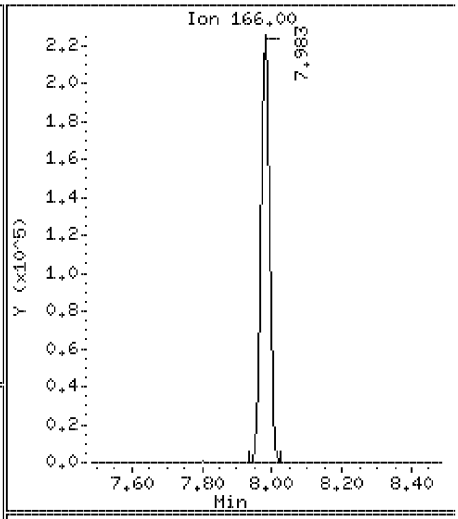
Concentration: 158 ppbv

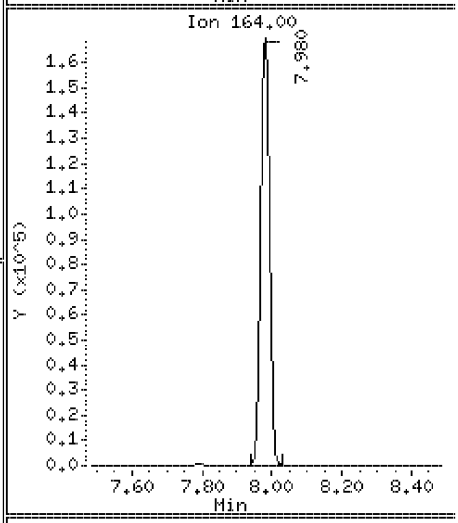


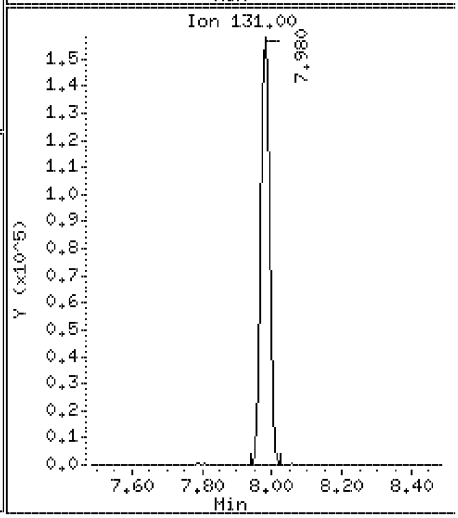






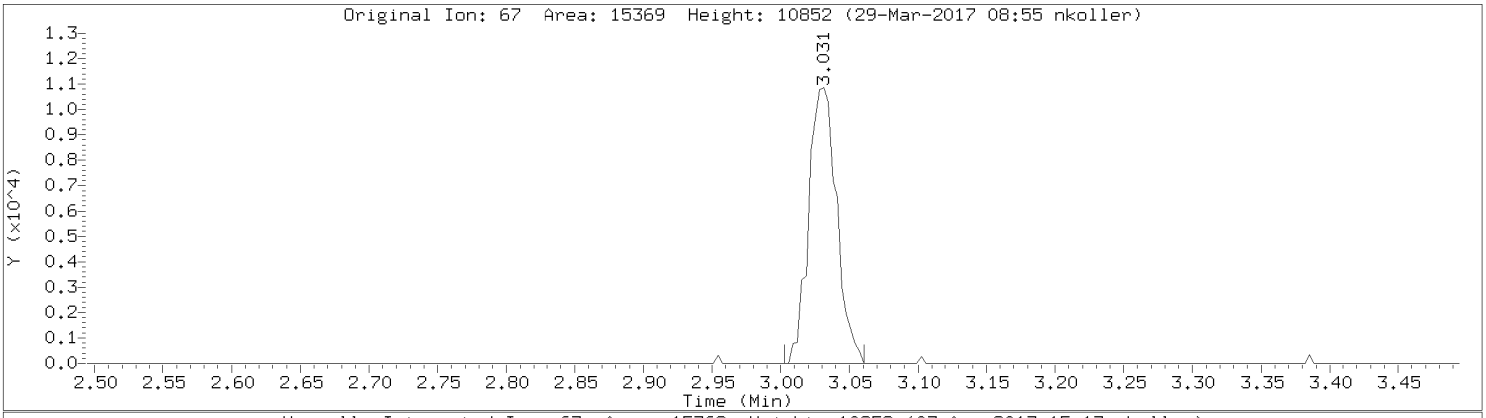


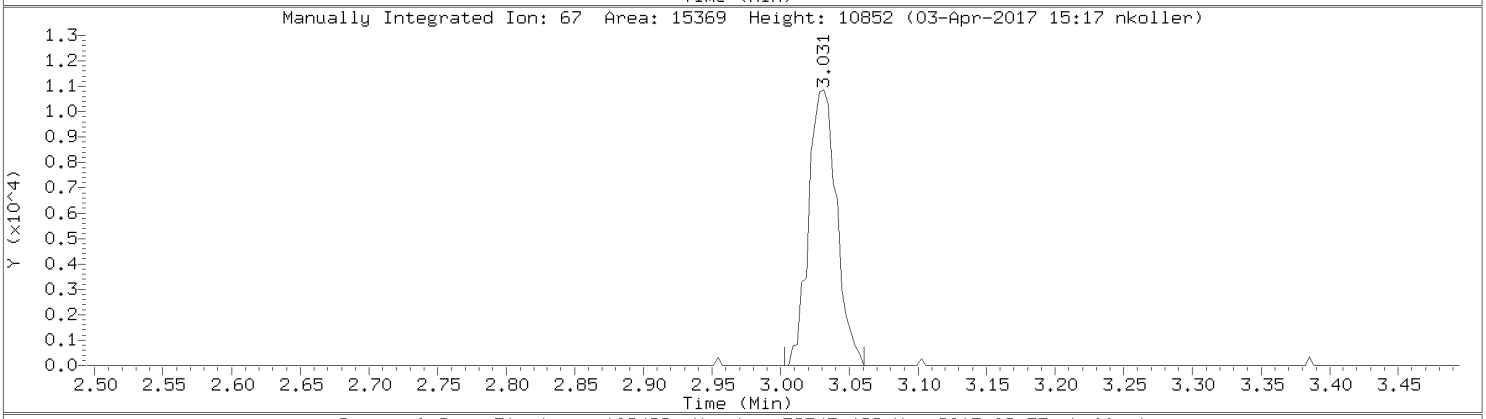


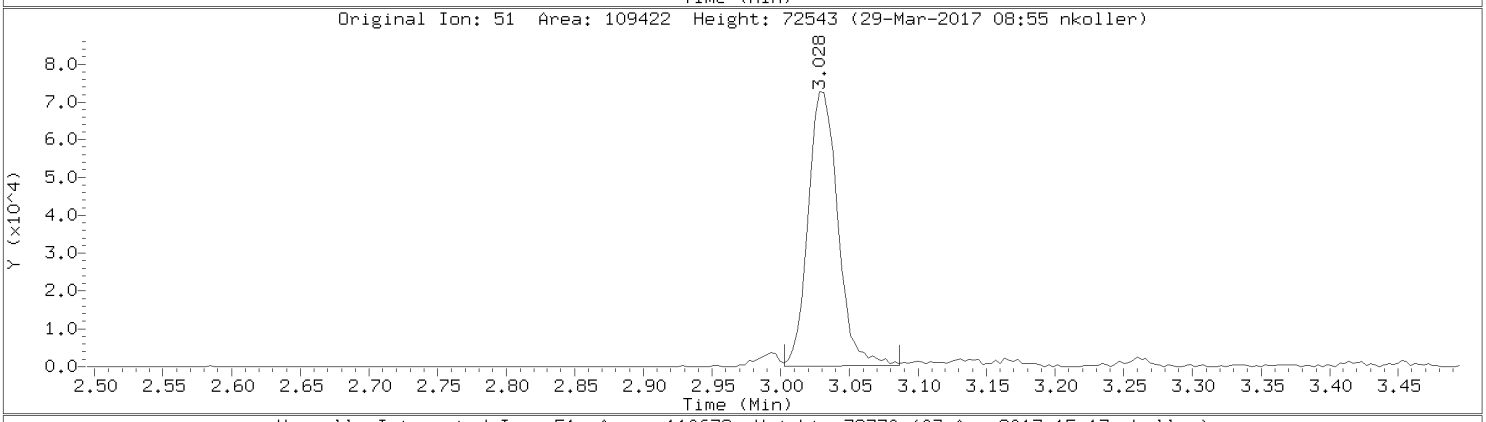


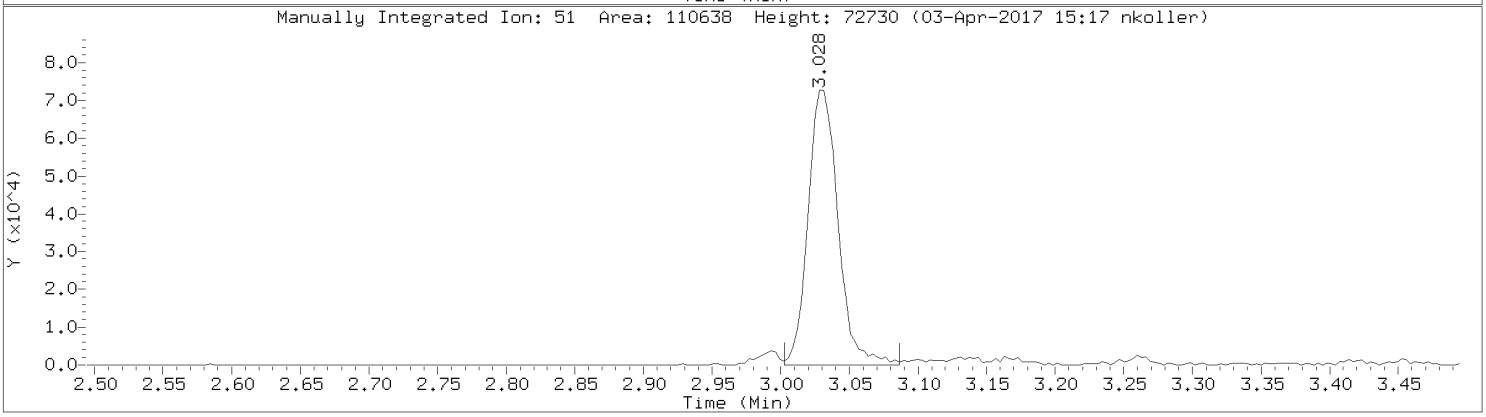
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08738.D
Injection Date: 29-MAR-2017 03:53
Instrument: 10airB.i
Lab Sample ID: 10381335009

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

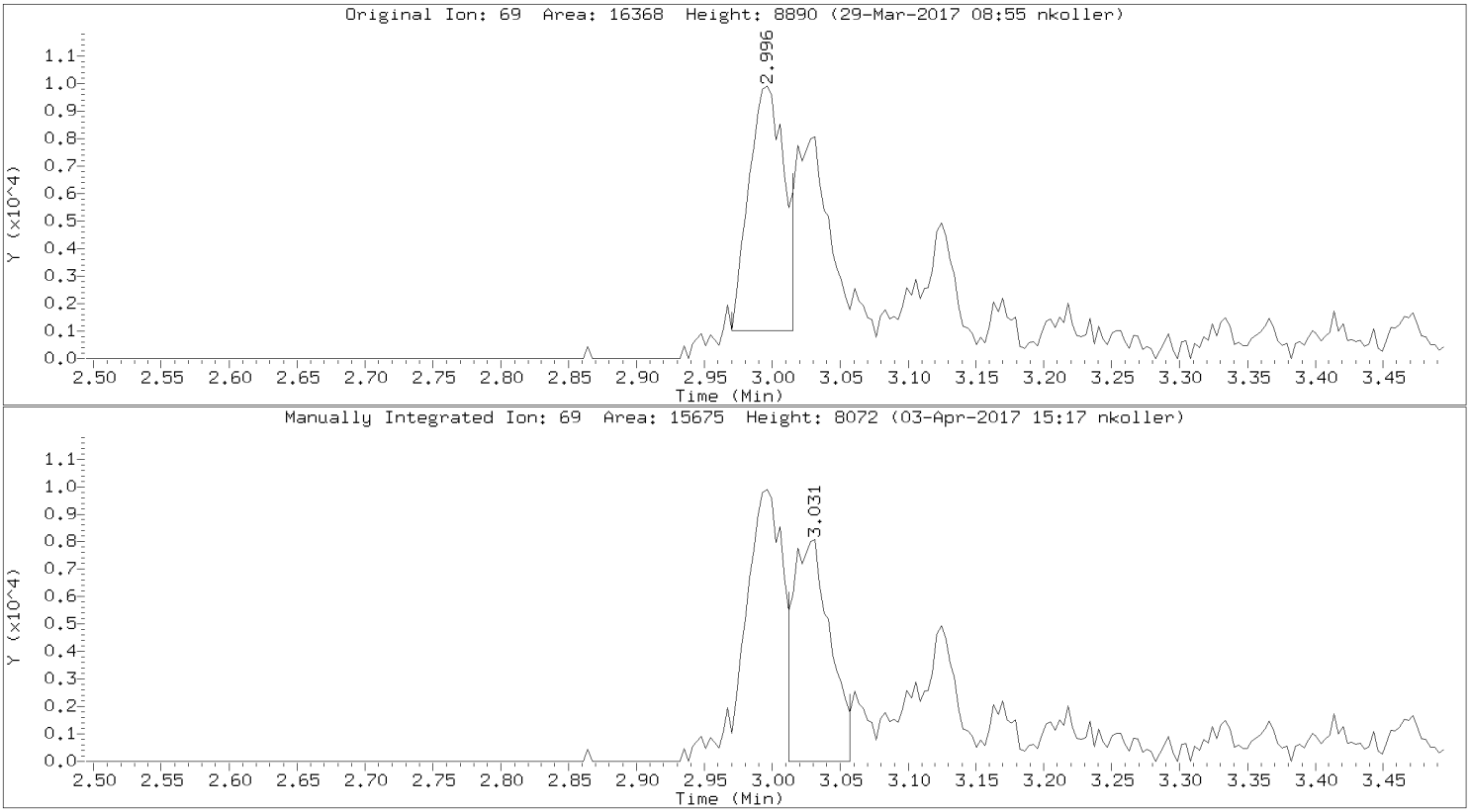








Data File: \\192.168.10.12\chem\10airB.i\032817.b/08738.D
Injection Date: 29-MAR-2017 03:53
Instrument: 10airB.i
Lab Sample ID: 10381335009



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_74_20170306 **Lab ID: 10381335009** Collected: 03/06/17 13:12 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichloroethane	**<7.5**	ug/m3	15.0	7.5	36.6		03/29/17 03:53	107-06-2	
1,1-Dichloroethene	**<8.7**	ug/m3	29.6	8.7	36.6		03/29/17 03:53	75-35-4	
cis-1,2-Dichloroethene	**302**	ug/m3	29.6	9.0	36.6		03/29/17 03:53	156-59-2	
trans-1,2-Dichloroethene	**<14.1**	ug/m3	29.6	14.1	36.6		03/29/17 03:53	156-60-5	
1,2-Dichloropropane	**<9.9**	ug/m3	34.4	9.9	36.6		03/29/17 03:53	78-87-5	
cis-1,3-Dichloropropene	**<13.5**	ug/m3	33.7	13.5	36.6		03/29/17 03:53	10061-01-5	
trans-1,3-Dichloropropene	**<9.5**	ug/m3	84.4	9.5	36.6		03/29/17 03:53	10061-02-6	
Dichlorotetrafluoroethane	**<11.3**	ug/m3	52.0	11.3	36.6		03/29/17 03:53	76-14-2	
Freon 123	**<116**	ug/m3	116	116	36.6		03/29/17 03:53	306-83-2	
1,4-Dioxane (p-Dioxane)	**<12.9**	ug/m3	134	12.9	36.6		03/29/17 03:53	123-91-1	
Ethylbenzene	**<15.6**	ug/m3	32.2	15.6	36.6		03/29/17 03:53	100-41-4	
4-Ethyltoluene	**<6.9**	ug/m3	36.6	6.9	36.6		03/29/17 03:53	622-96-8	
Hexachloro-1,3-butadiene	**<23.8**	ug/m3	79.3	23.8	36.6		03/29/17 03:53	87-68-3	
n-Hexane	**<13.1**	ug/m3	26.4	13.1	36.6		03/29/17 03:53	110-54-3	
2-Hexanone	**<15.0**	ug/m3	152	15.0	36.6		03/29/17 03:53	591-78-6	
Isopropylbenzene (Cumene)	**<5.1**	ug/m3	91.5	5.1	36.6		03/29/17 03:53	98-82-8	
Methyl acetate	**<56.4**	ug/m3	56.4	56.4	36.6		03/29/17 03:53	79-20-9	
Methylcyclohexane	**<8.9**	ug/m3	29.9	8.9	36.6		03/29/17 03:53	108-87-2	
Methylene Chloride	**<19.8**	ug/m3	129	19.8	36.6		03/29/17 03:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<7.9**	ug/m3	152	7.9	36.6		03/29/17 03:53	108-10-1	
Methyl-tert-butyl ether	**<11.1**	ug/m3	134	11.1	36.6		03/29/17 03:53	1634-04-4	
2-Propanol	**<8.8**	ug/m3	91.5	8.8	36.6		03/29/17 03:53	67-63-0	
Styrene	**<7.1**	ug/m3	31.8	7.1	36.6		03/29/17 03:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<12.0**	ug/m3	25.5	12.0	36.6		03/29/17 03:53	79-34-5	
Tetrachloroethene	**1090**	ug/m3	25.2	10.2	36.6		03/29/17 03:53	127-18-4	
Toluene	**22.0J**	ug/m3	28.2	5.6	36.6		03/29/17 03:53	108-88-3	
1,2,4-Trichlorobenzene	**<33.3**	ug/m3	138	33.3	36.6		03/29/17 03:53	120-82-1	
1,1,1-Trichloroethane	**<9.0**	ug/m3	40.6	9.0	36.6		03/29/17 03:53	71-55-6	
1,1,2-Trichloroethane	**<9.0**	ug/m3	20.1	9.0	36.6		03/29/17 03:53	79-00-5	
Trichloroethene	**5840**	ug/m3	20.1	10.1	36.6		03/29/17 03:53	79-01-6	
Trichlorofluoromethane	**<4.8**	ug/m3	41.7	4.8	36.6		03/29/17 03:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**123**	ug/m3	58.6	11.0	36.6		03/29/17 03:53	76-13-1	
1,2,4-Trimethylbenzene	**<4.6**	ug/m3	36.6	4.6	36.6		03/29/17 03:53	95-63-6	
1,3,5-Trimethylbenzene	**<6.7**	ug/m3	36.6	6.7	36.6		03/29/17 03:53	108-67-8	
Vinyl chloride	**<7.1**	ug/m3	9.5	7.1	36.6		03/29/17 03:53	75-01-4	
m&p-Xylene	**<28.8**	ug/m3	64.8	28.8	36.6		03/29/17 03:53	179601-23-1	
o-Xylene	**<12.8**	ug/m3	32.2	12.8	36.6		03/29/17 03:53	95-47-6	

Sample: VP-3_5_20170307 **Lab ID: 10381335010** Collected: 03/07/17 12:01 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**24.3**	ug/m3	4.1	1.4	1.68		03/28/17 18:36	67-64-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_5_20170307 **Lab ID: 10381335010** Collected: 03/07/17 12:01 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/28/17 18:36	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/28/17 18:36	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/28/17 18:36	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/28/17 18:36	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/28/17 18:36	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/28/17 18:36	106-99-0	
2-Butanone (MEK)	**3.9J**	ug/m3	5.0	0.38	1.68		03/28/17 18:36	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/28/17 18:36	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/28/17 18:36	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/28/17 18:36	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/28/17 18:36	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/28/17 18:36	75-00-3	
Chloroform	**1.7**	ug/m3	0.83	0.32	1.68		03/28/17 18:36	67-66-3	
Chloromethane	**0.60J**	ug/m3	0.71	0.18	1.68		03/28/17 18:36	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/28/17 18:36	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/28/17 18:36	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/28/17 18:36	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/28/17 18:36	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/28/17 18:36	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/28/17 18:36	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/28/17 18:36	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/28/17 18:36	106-46-7	
Dichlorodifluoromethane	**2.6**	ug/m3	1.7	0.81	1.68		03/28/17 18:36	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/28/17 18:36	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/28/17 18:36	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/28/17 18:36	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 18:36	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/28/17 18:36	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/28/17 18:36	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/28/17 18:36	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	3.9	0.44	1.68		03/28/17 18:36	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/28/17 18:36	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/28/17 18:36	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/28/17 18:36	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/28/17 18:36	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/28/17 18:36	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/28/17 18:36	87-68-3	
n-Hexane	**2.9**	ug/m3	1.2	0.60	1.68		03/28/17 18:36	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/28/17 18:36	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/28/17 18:36	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/28/17 18:36	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 18:36	108-87-2	
Methylene Chloride	**30.8**	ug/m3	5.9	0.91	1.68		03/28/17 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/28/17 18:36	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/28/17 18:36	1634-04-4	
2-Propanol	**2.4J**	ug/m3	4.2	0.40	1.68		03/28/17 18:36	67-63-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D
Report Date: 03-Apr-2017 15:02

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08719.D
Lab Smp Id: 10381335010
Inj Date : 28-MAR-2017 18:36
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 19
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.054	3.028	(0.546)	42271	0.30477	0.512	(H)
6	Chloromethane	50	3.144	3.127	(0.562)	9767	0.17074	0.287	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.539	(0.634)	43999	2.63360	4.42	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.652	3.658	(0.652)	15117	0.15571	0.262	
17	Acrolein	56	3.671	3.674	(0.656)	14264	0.93424	1.57	
18	Acetone	43	3.713	3.713	(0.663)	393816	5.98244	10.1	
19	Isopropyl Alcohol	45	3.771	3.764	(0.674)	41655	0.56217	0.944	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.935	3.938	(0.703)	6461	0.08287	0.139	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D
Report Date: 03-Apr-2017 15:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	3.999	(0.712)	261988	5.19156	8.72	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.478	(0.800)	908568	9.61249	9.61	
	33 Methyl Ethyl Ketone	72	4.552	4.549	(0.813)	15455	0.76607	1.29(Q)	
	34 n-Hexane	57	4.571	4.574	(0.817)	36297	0.48697	0.818(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	4.819	4.838	(0.861)	17215	0.20764	0.349	
	40 Tetrahydrofuran	42	5.073	4.992	(0.906)	832	0.01444	0.0243(aQ)	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	2519653	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.986	(1.067)	14383	0.18858	0.317	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.073	(1.263)	2067690	9.73402	9.73	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.143	7.150	(1.276)	26776	0.15141	0.254	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.976	7.986	(0.923)	117126	1.19028	2.00	
*	67 Chlorobenzene - d5	117	8.639	8.642	(1.000)	1502498	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D
Report Date: 03-Apr-2017 15:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	714141	10.0123	10.0	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.169	(1.641)	3630	0.38507	0.647	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D
Report Date: 03-Apr-2017 15:02

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08719.D
Lab Smp Id: 10381335010
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

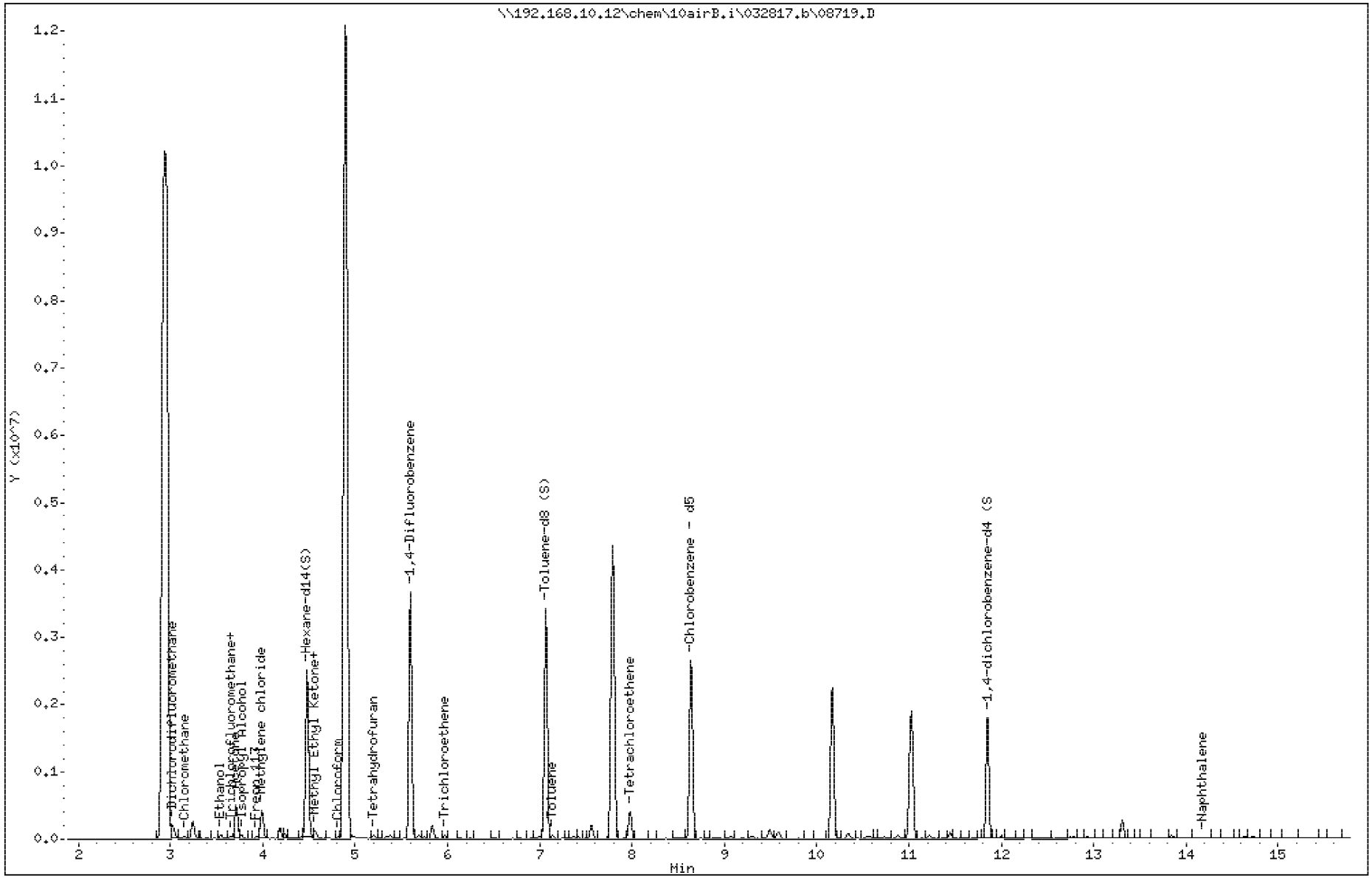
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2519653	-11.02
67 Chlorobenzene - d	1804482	1082689	2526275	1502498	-16.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D
Date : 28-MAR-2017 18:36
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

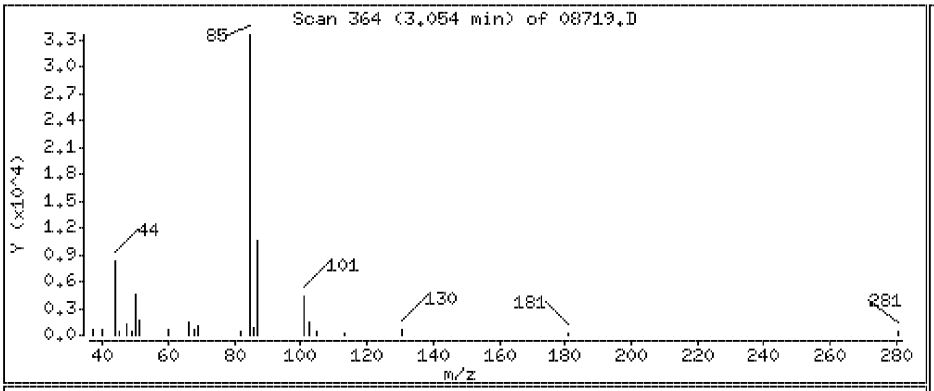
Operator: NCK

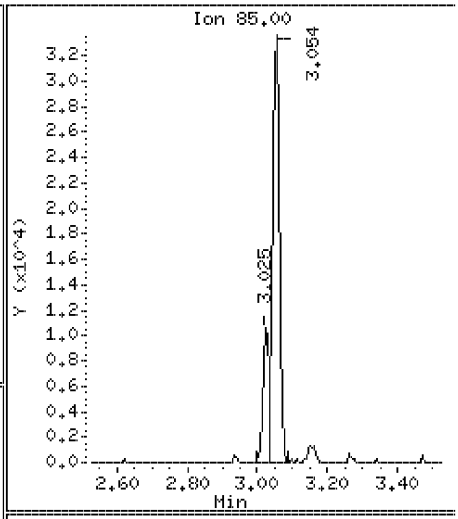
Column phase: J&W DB-5

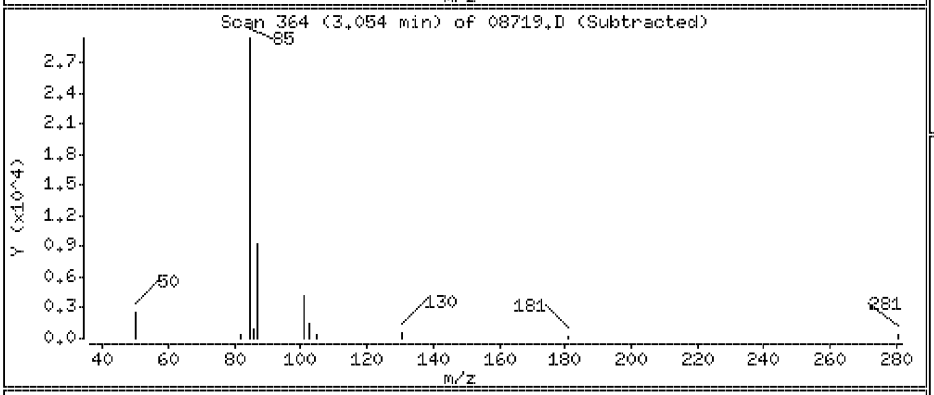
Column diameter: 0.32

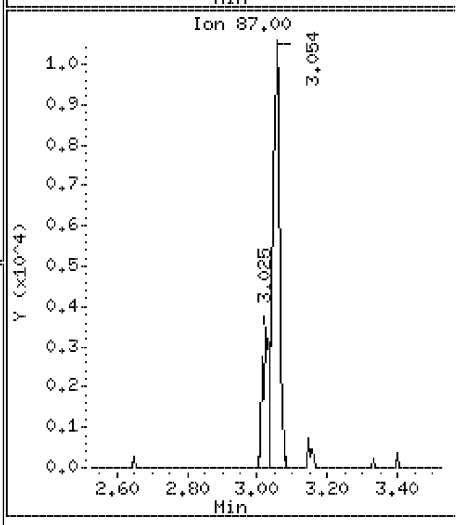
5 Dichlorodifluoromethane

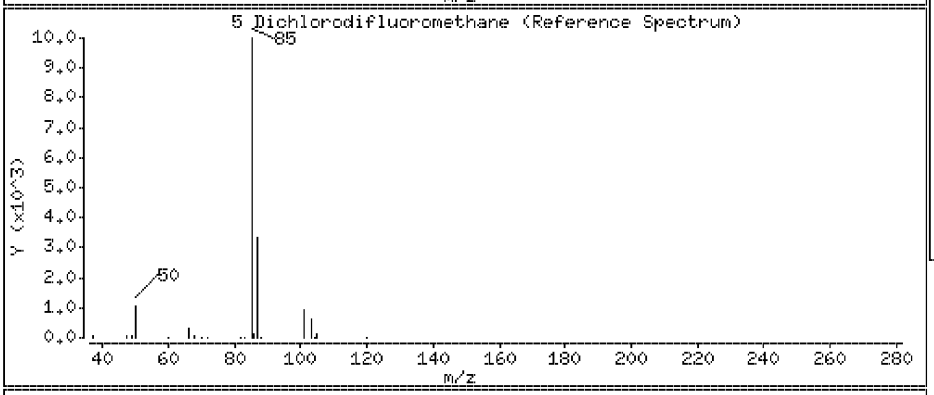
Concentration: 0.512 ppbv

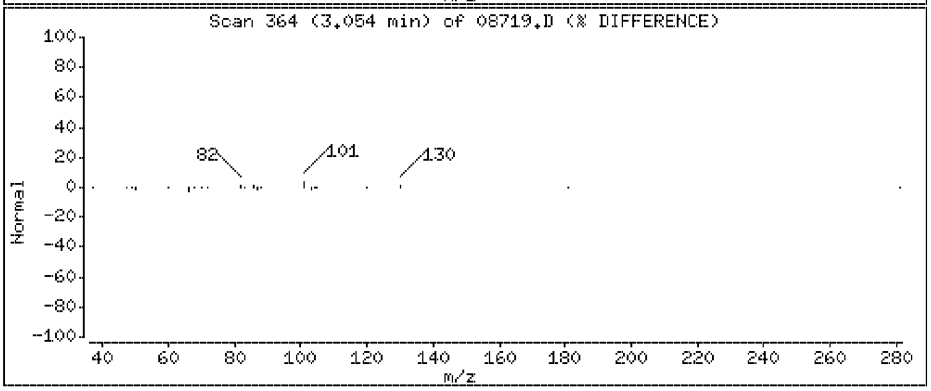












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

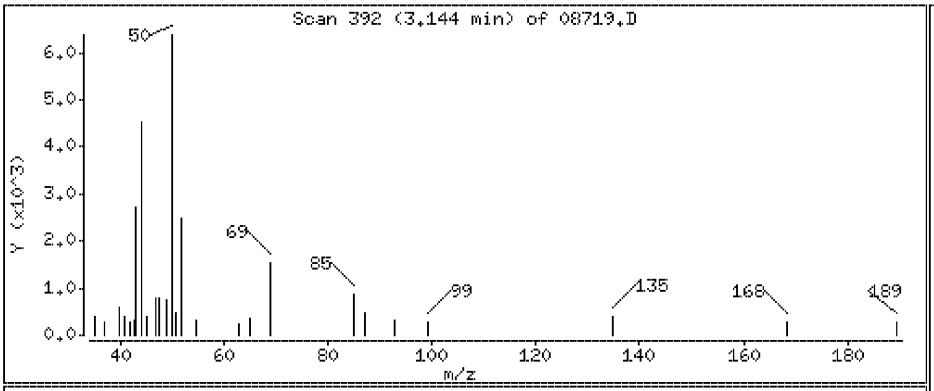
Operator: NCK

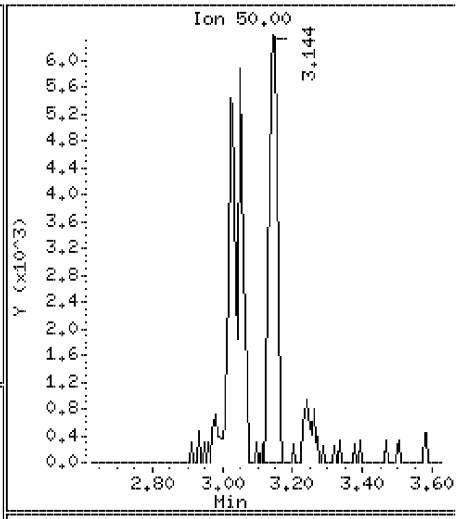
Column phase: J&W DB-5

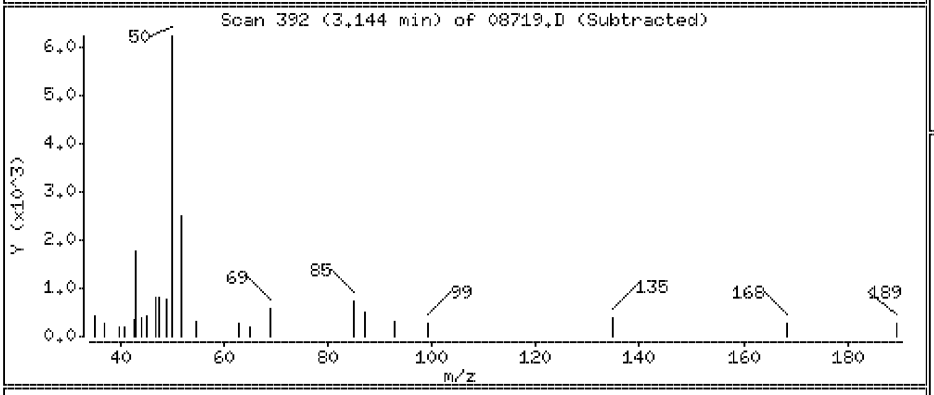
Column diameter: 0.32

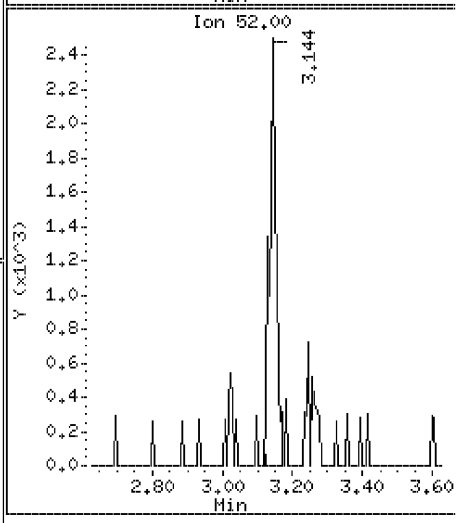
6 Chloromethane

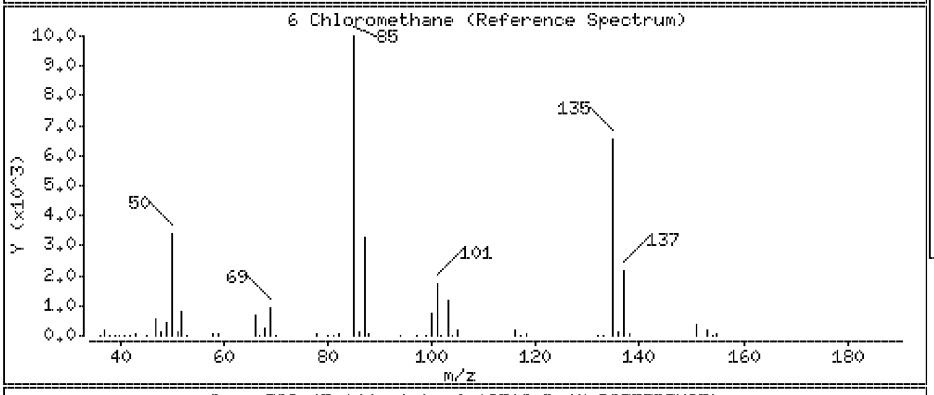
Concentration: 0.287 ppbv

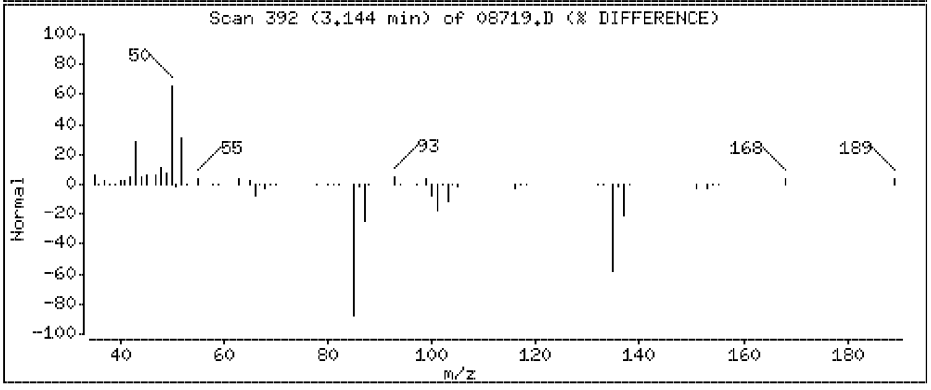












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

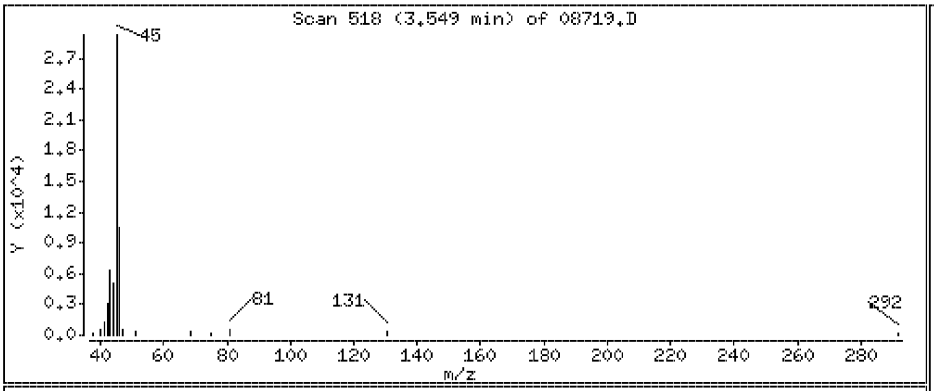
Operator: NCK

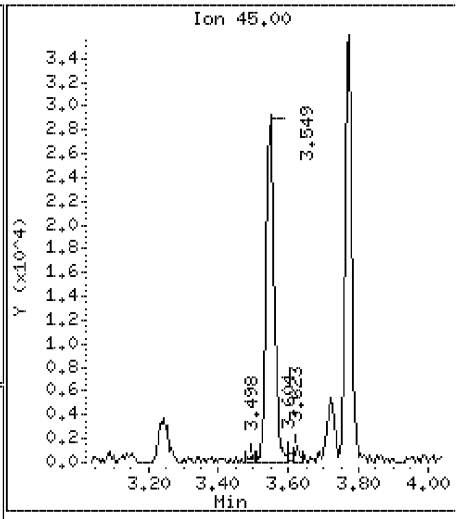
Column phase: J&W DB-5

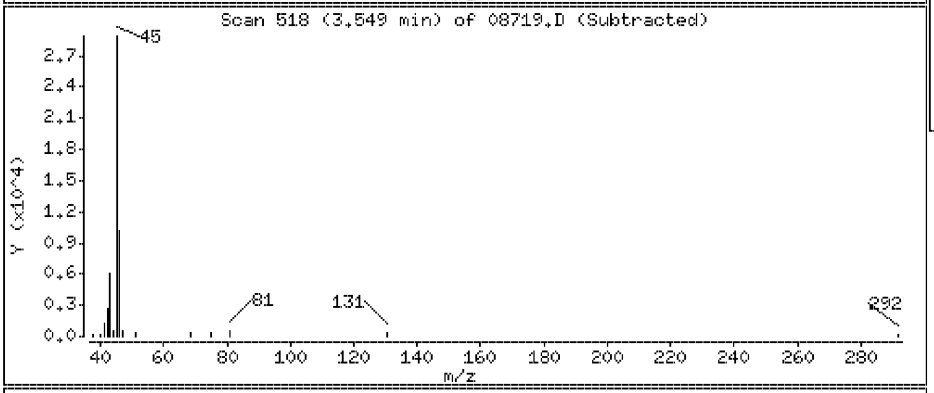
Column diameter: 0.32

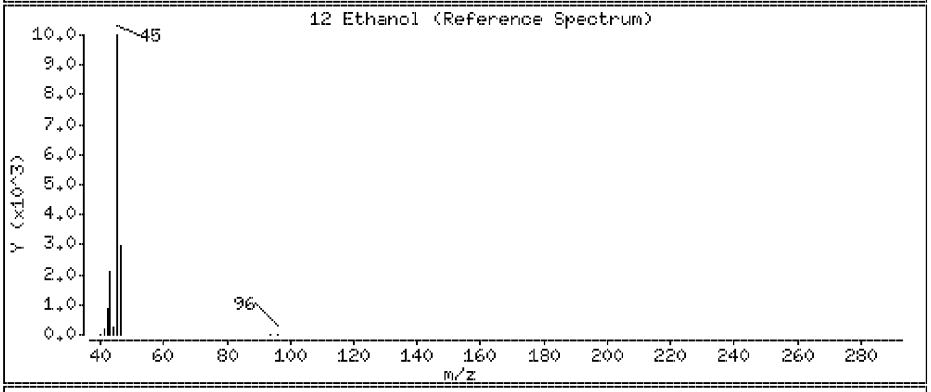
12 Ethanol

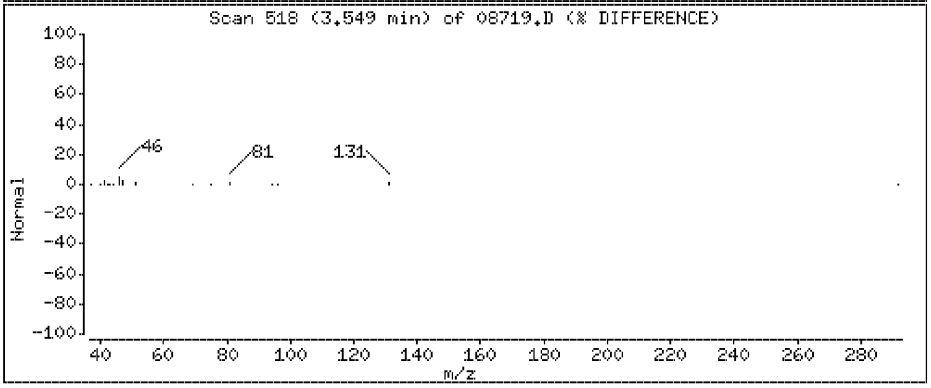
Concentration: 4.42 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

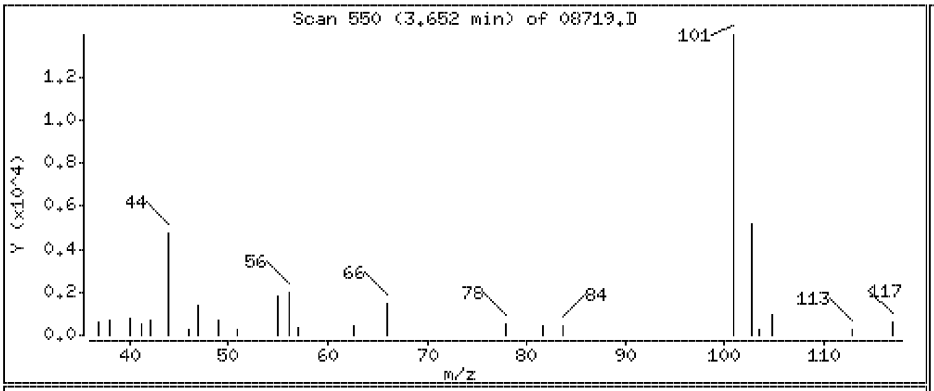
Operator: NCK

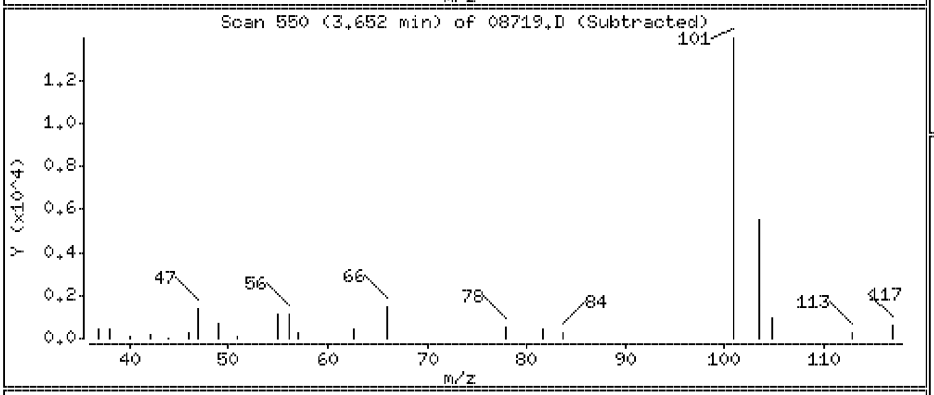
Column phase: J&W DB-5

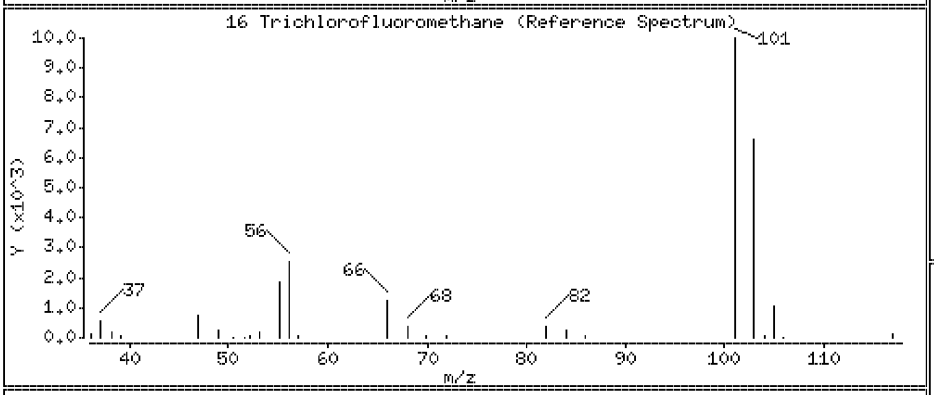
Column diameter: 0.32

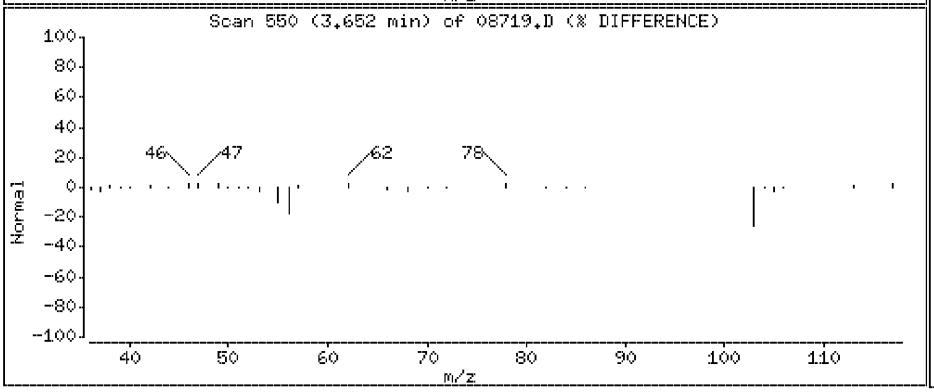
16 Trichlorofluoromethane

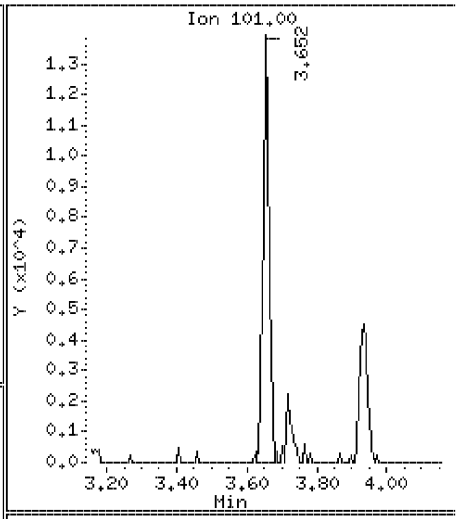
Concentration: 0.262 ppbv

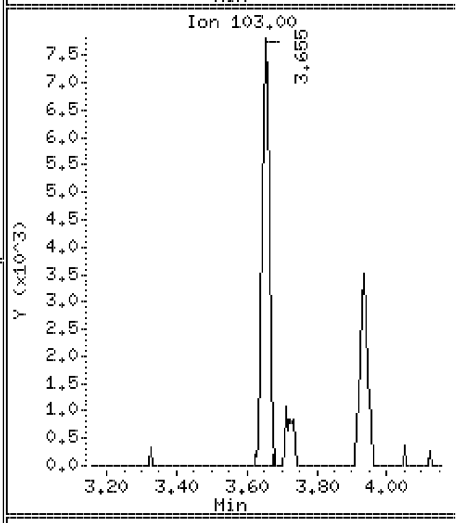


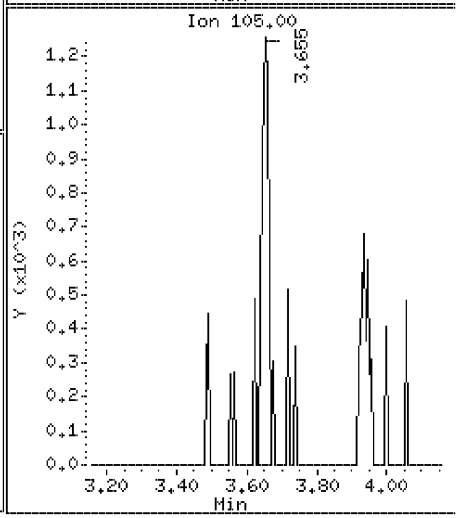












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

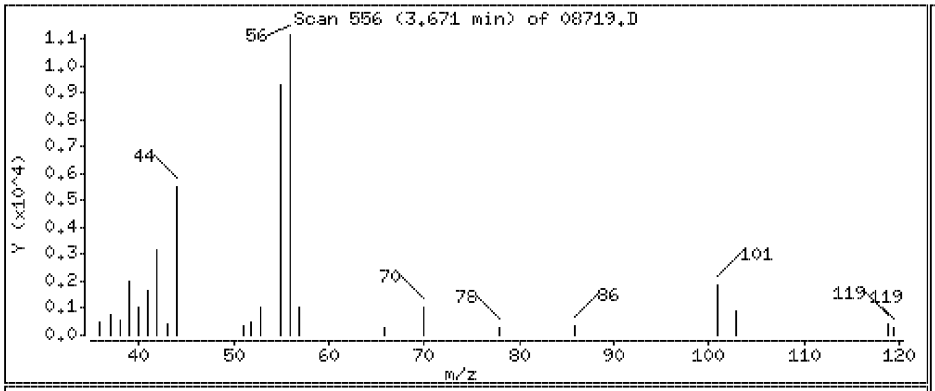
Operator: NCK

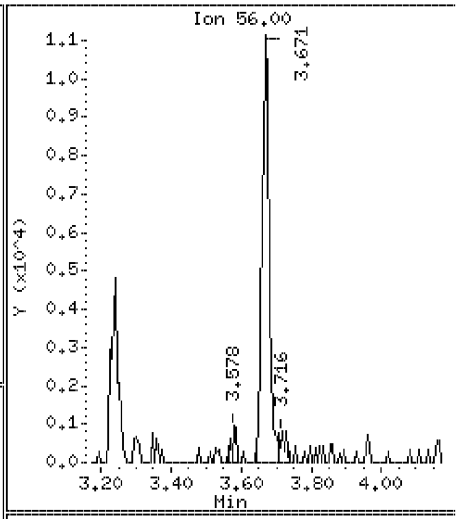
Column phase: J&W DB-5

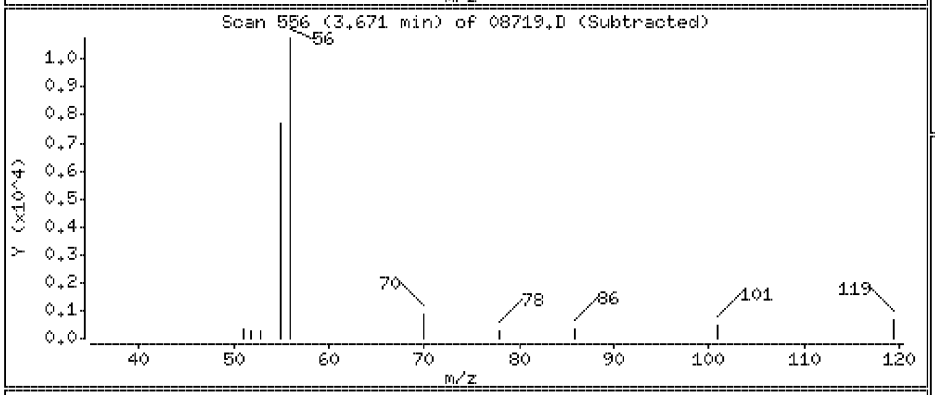
Column diameter: 0.32

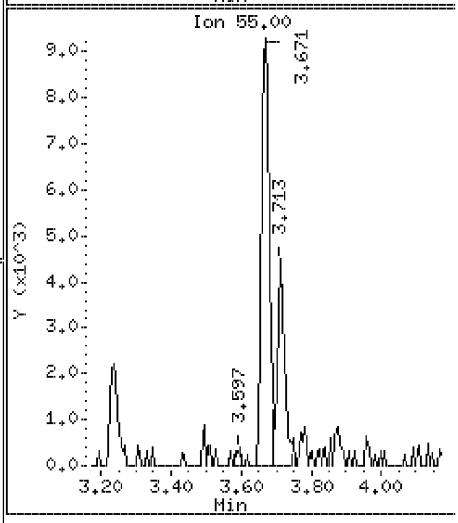
17 Acrolein

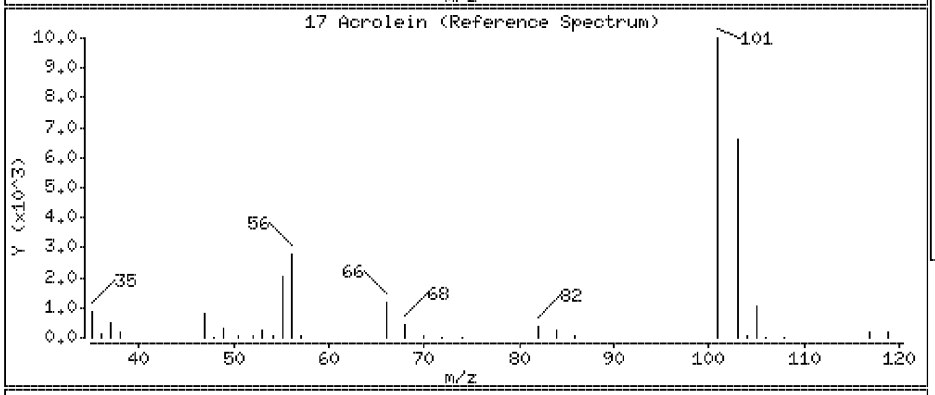
Concentration: 1.57 ppbv

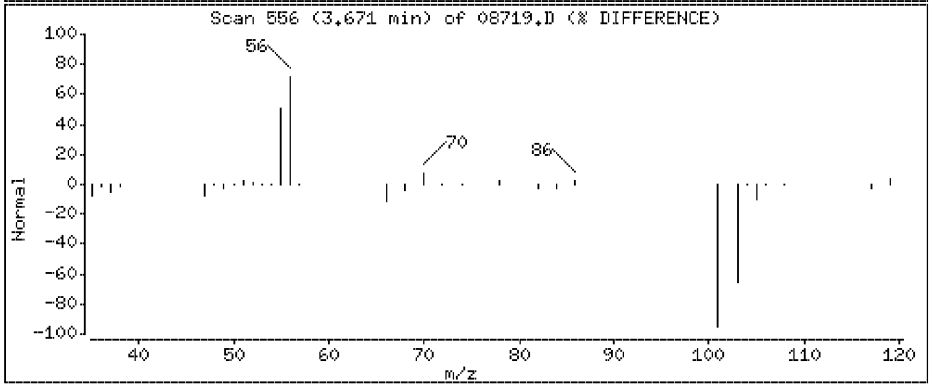












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

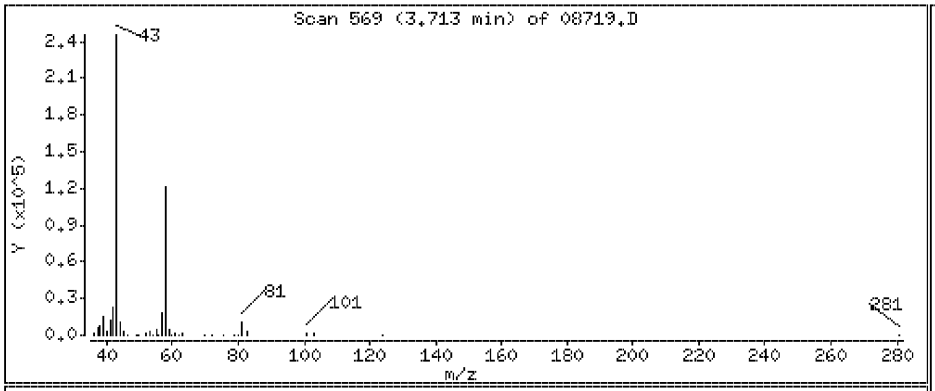
Operator: NCK

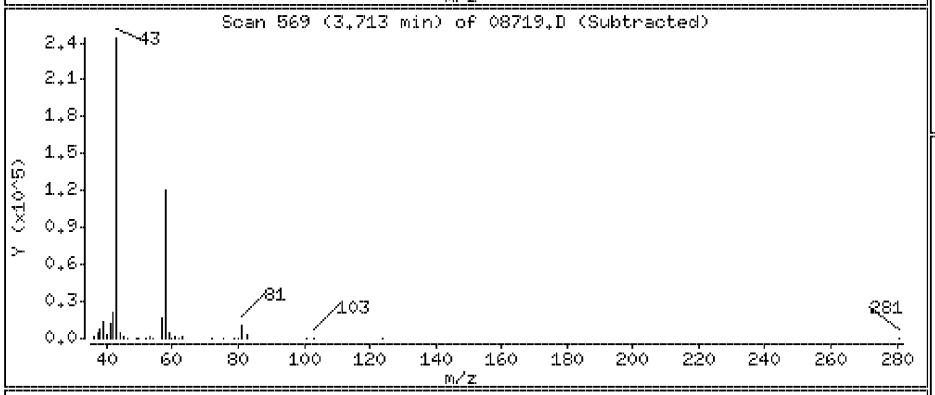
Column phase: J&W DB-5

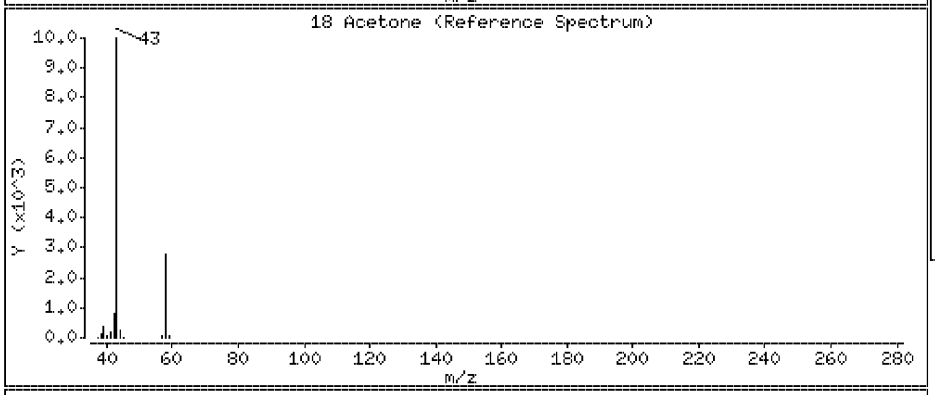
Column diameter: 0.32

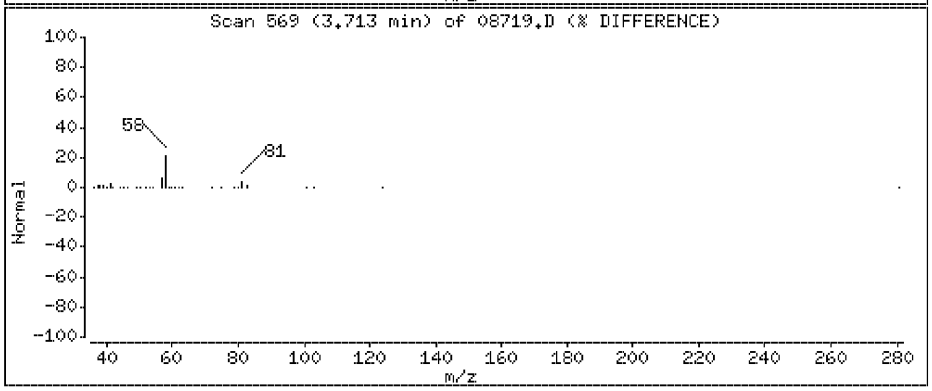
18 Acetone

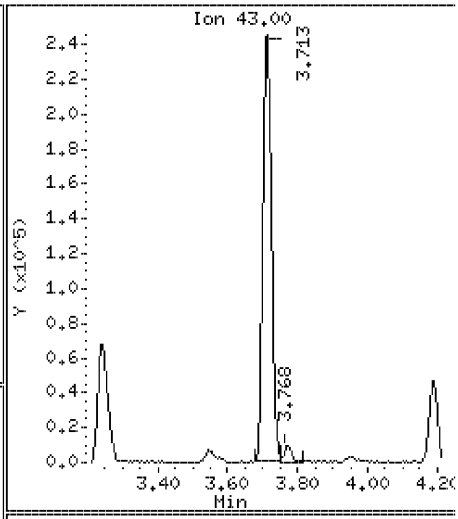
Concentration: 10.1 ppbv

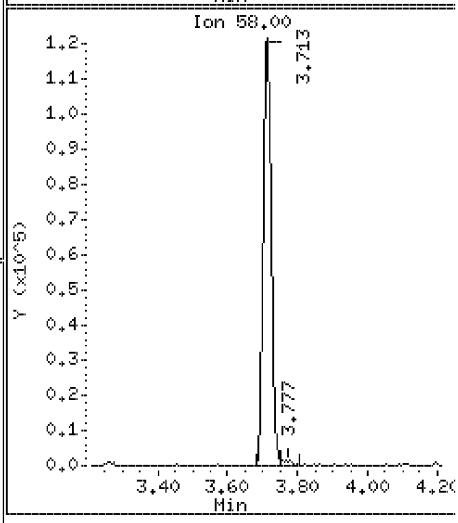












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

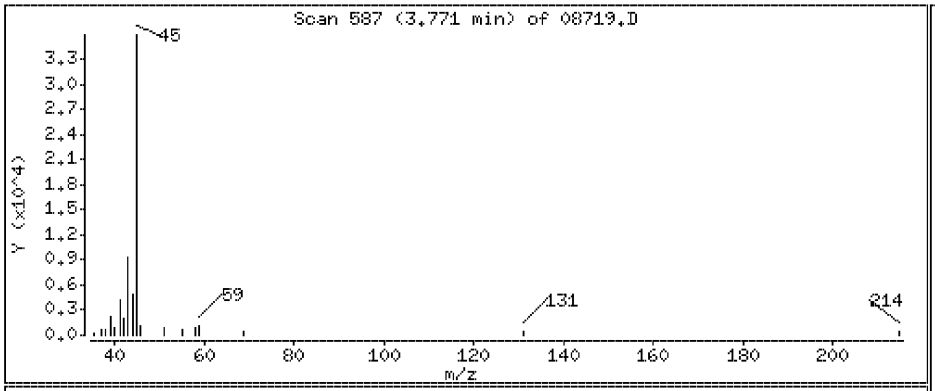
Operator: NCK

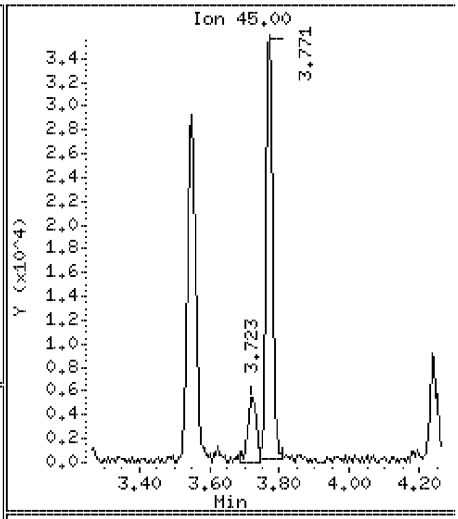
Column phase: J&W DB-5

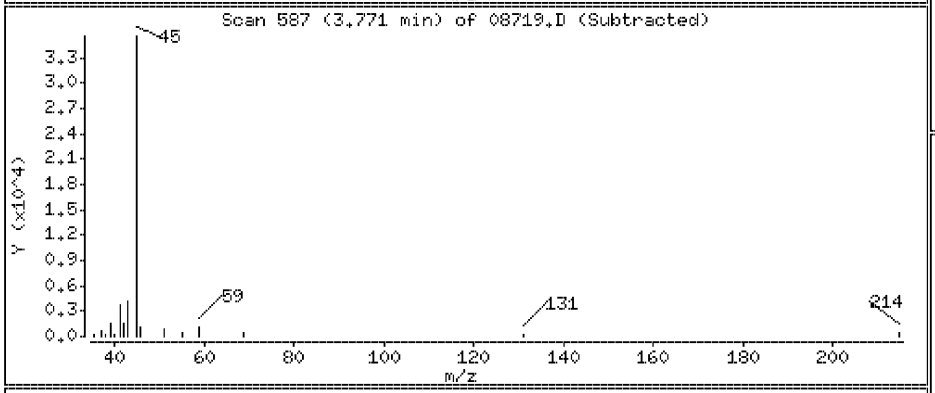
Column diameter: 0.32

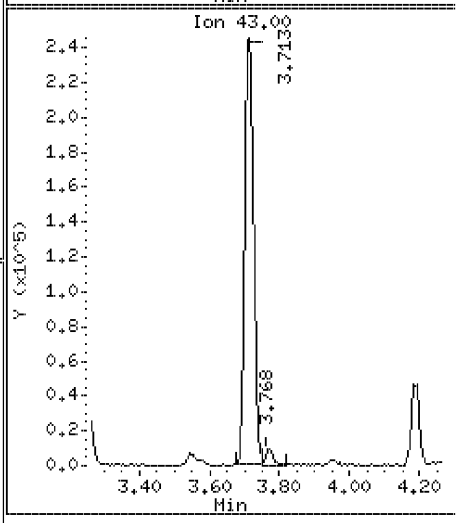
19 Isopropyl Alcohol

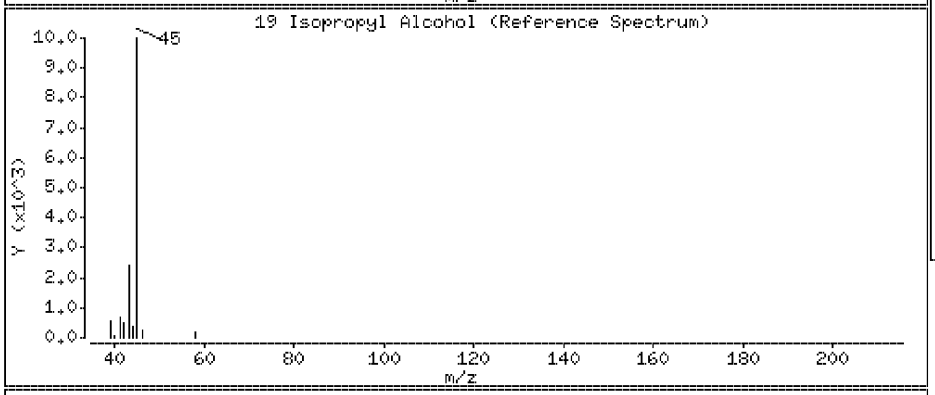
Concentration: 0.944 ppbv

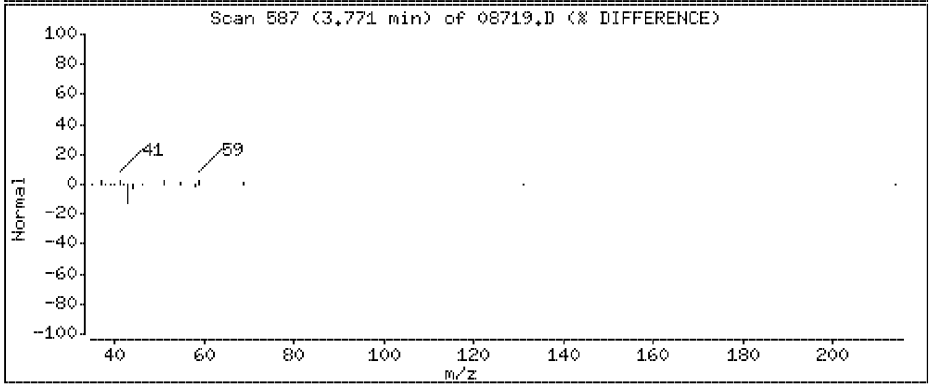












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

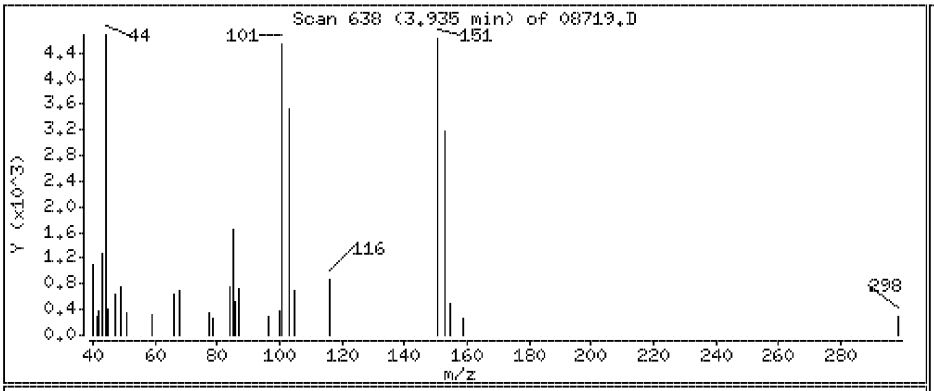
Operator: NCK

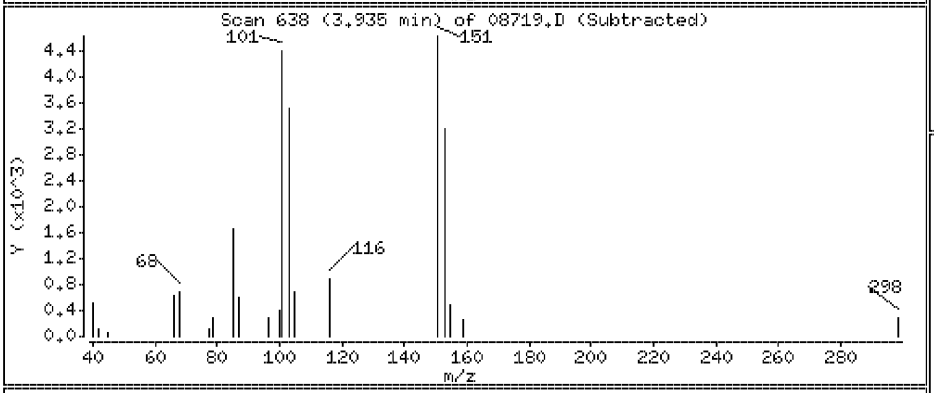
Column phase: J&W DB-5

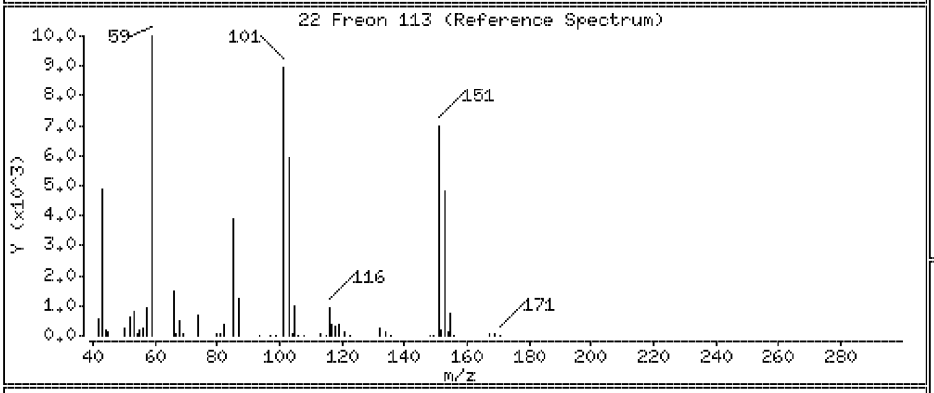
Column diameter: 0.32

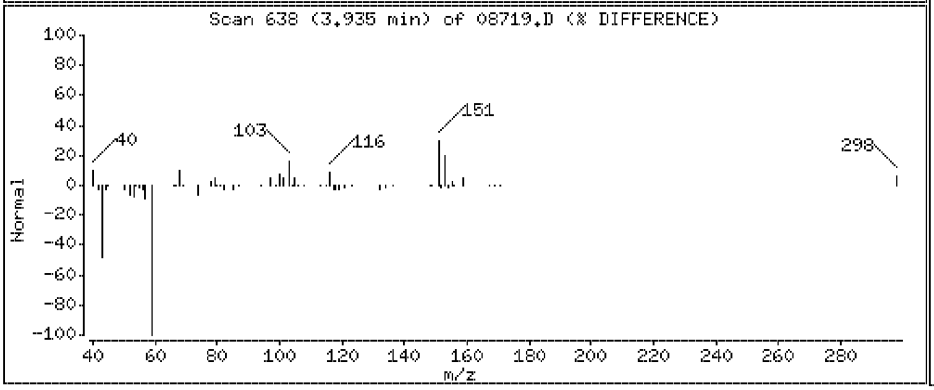
22 Freon 113

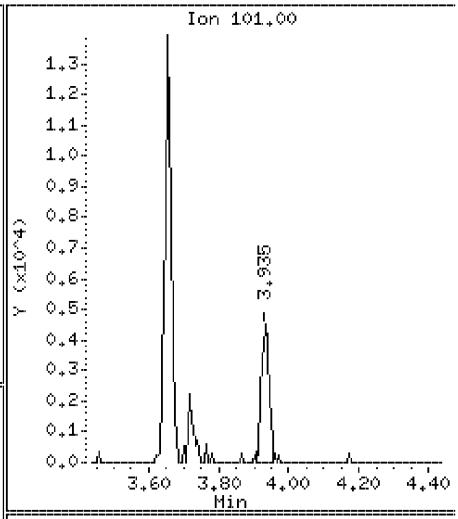
Concentration: 0.139 ppbv

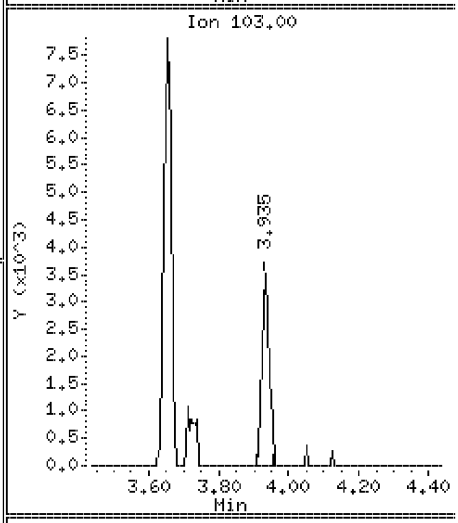


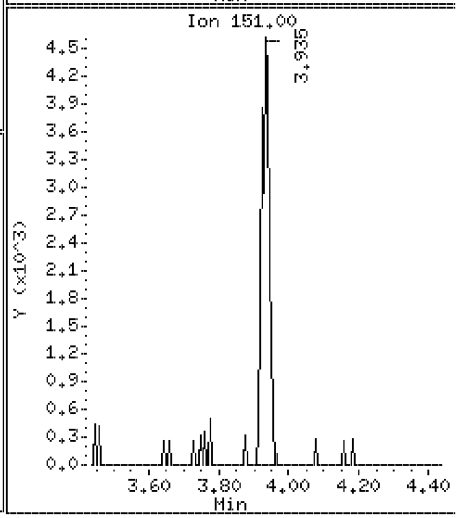












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

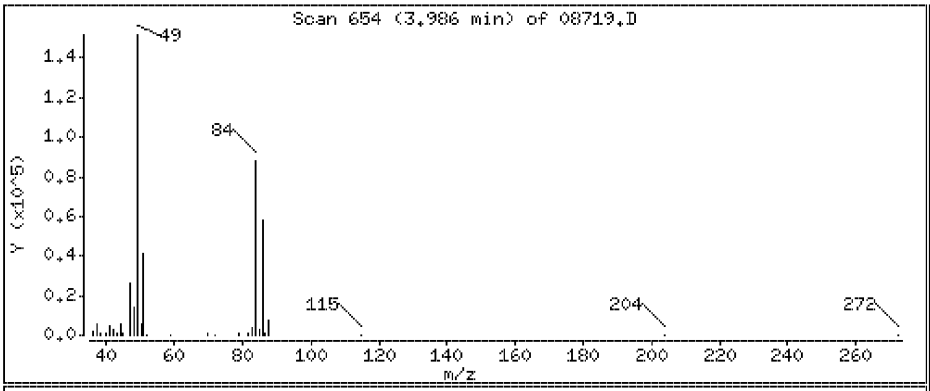
Operator: NCK

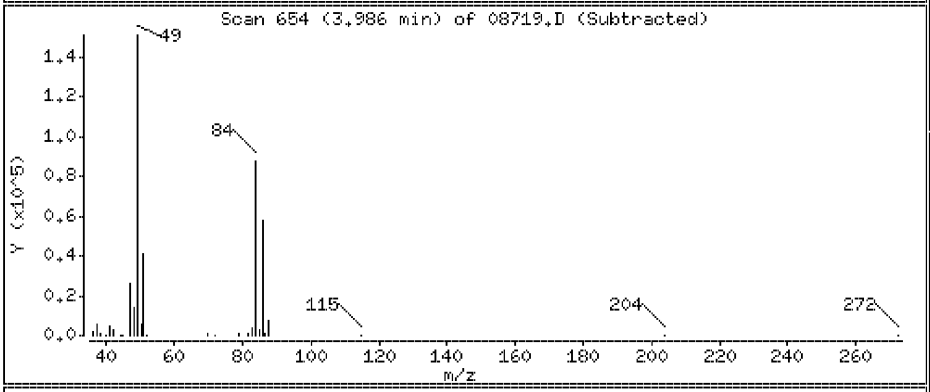
Column phase: J&W DB-5

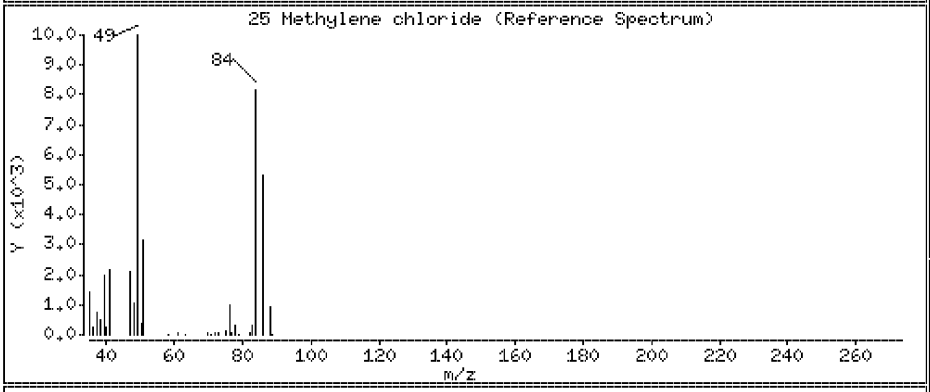
Column diameter: 0.32

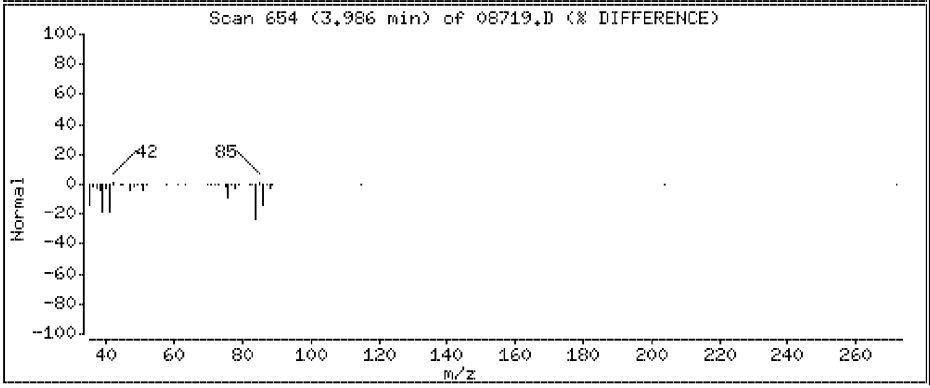
25 Methylene chloride

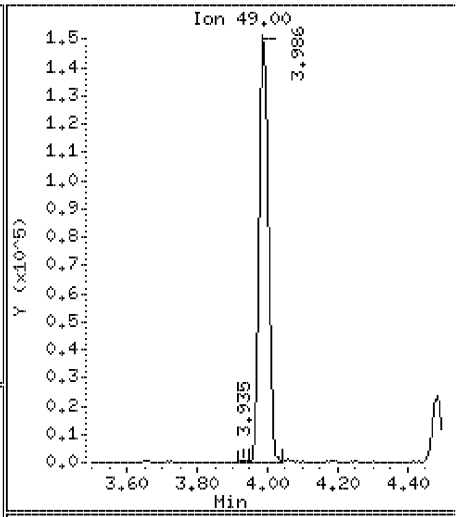
Concentration: 8.72 ppbv

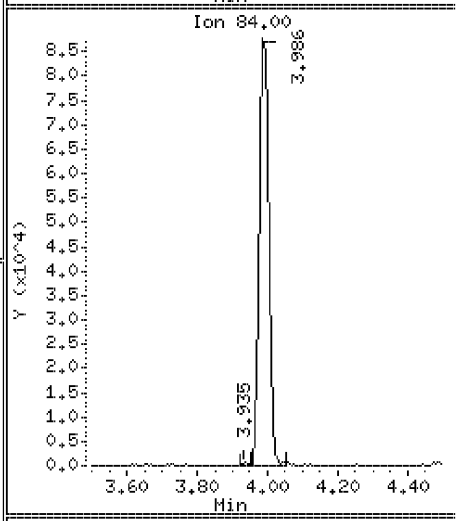


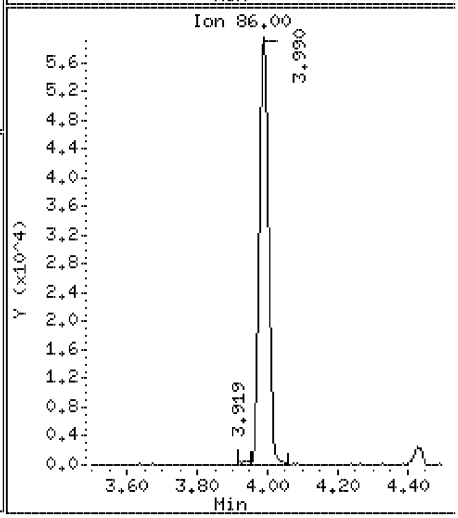












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

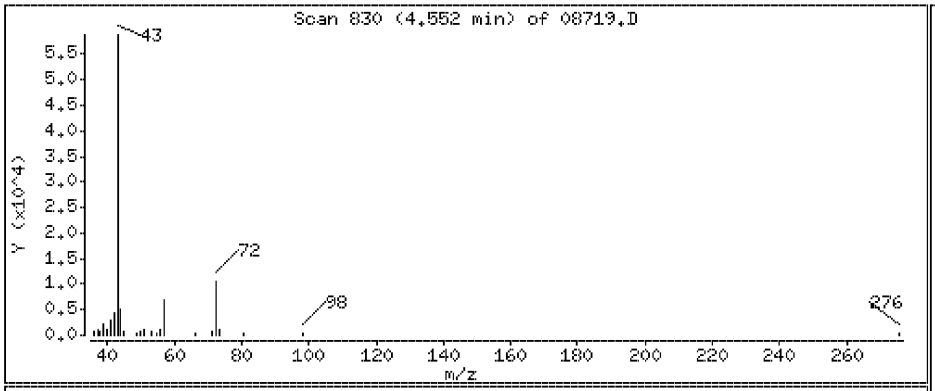
Operator: NCK

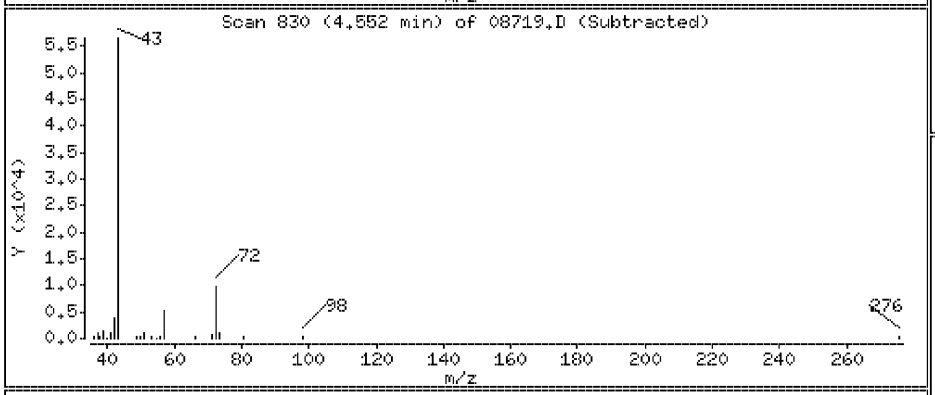
Column phase: J&W DB-5

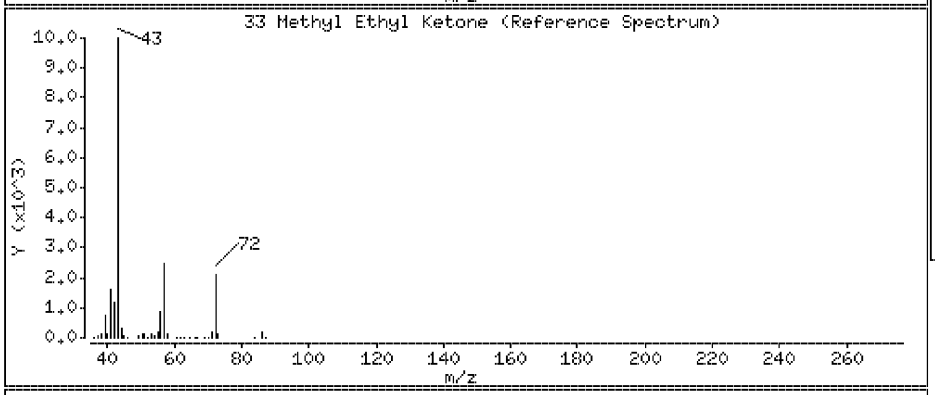
Column diameter: 0.32

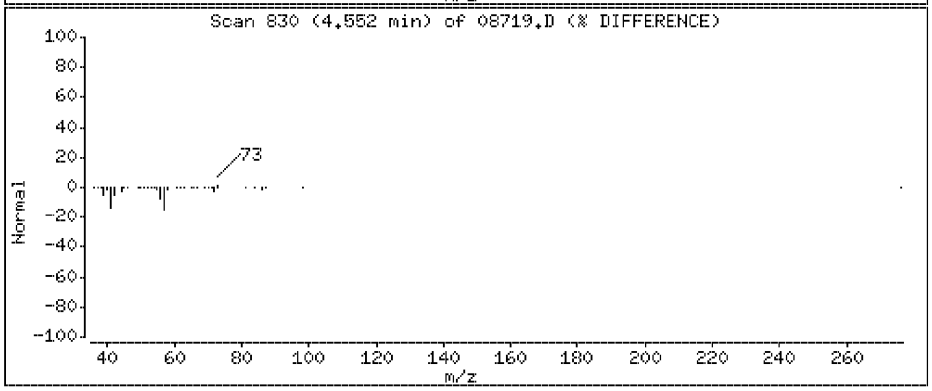
33 Methyl Ethyl Ketone

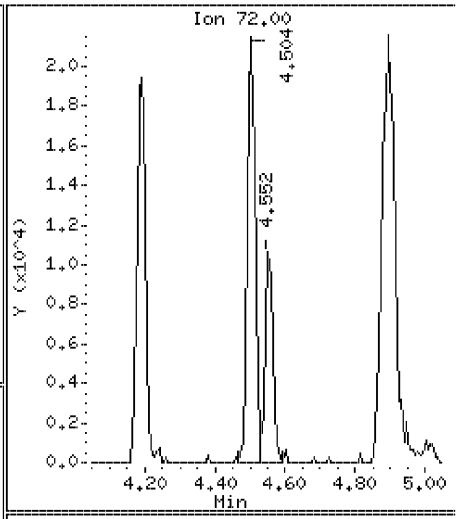
Concentration: 1.29 ppbv

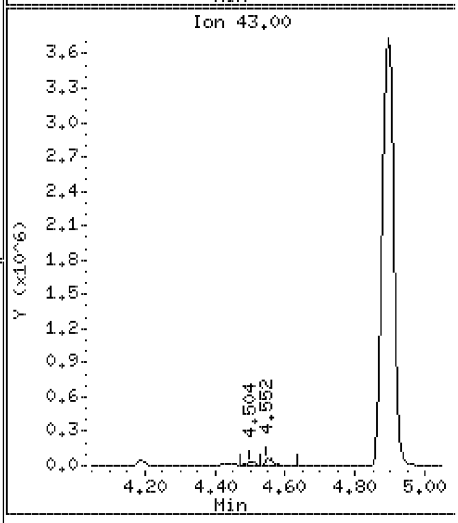












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

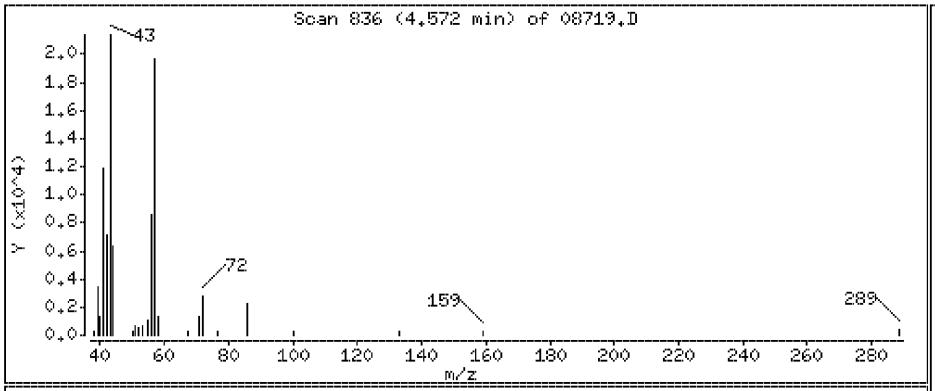
Operator: NCK

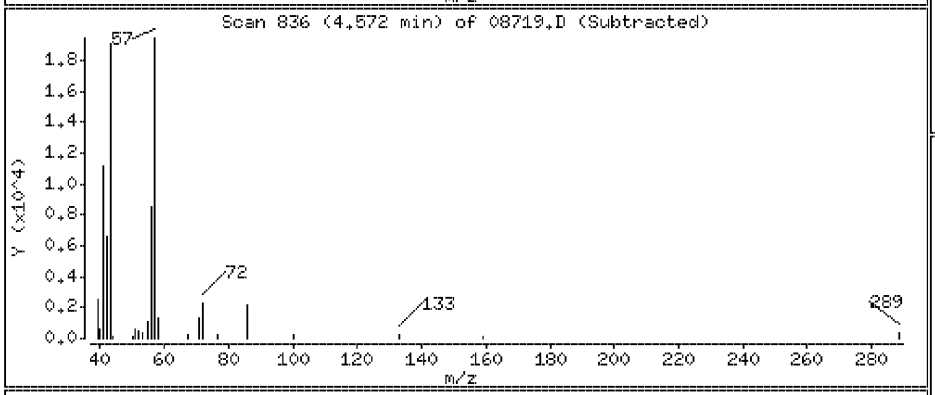
Column phase: J&W DB-5

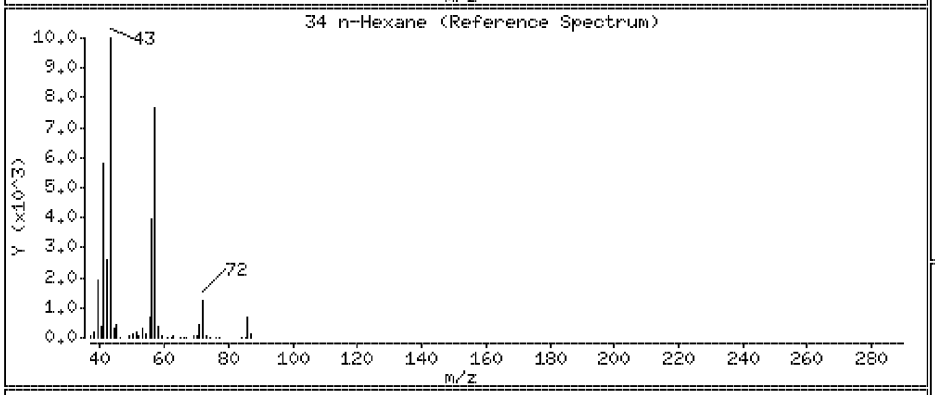
Column diameter: 0.32

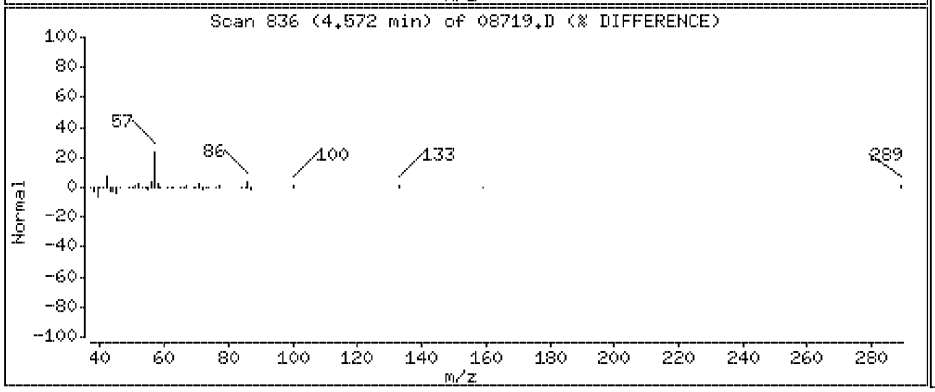
34 n-Hexane

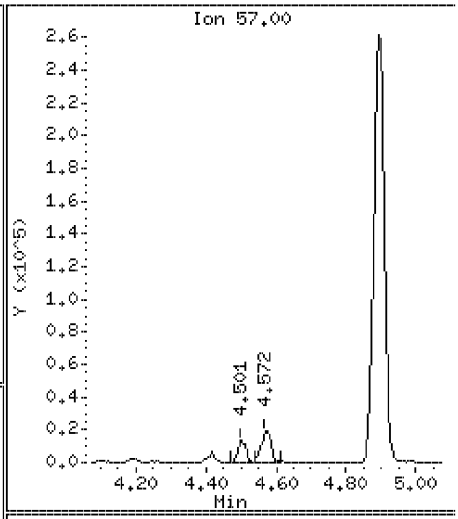
Concentration: 0.818 ppbv

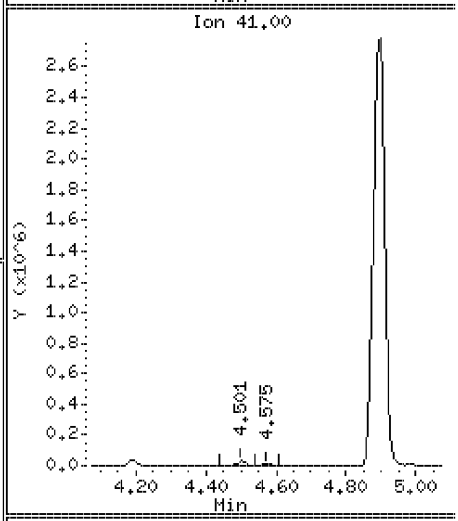


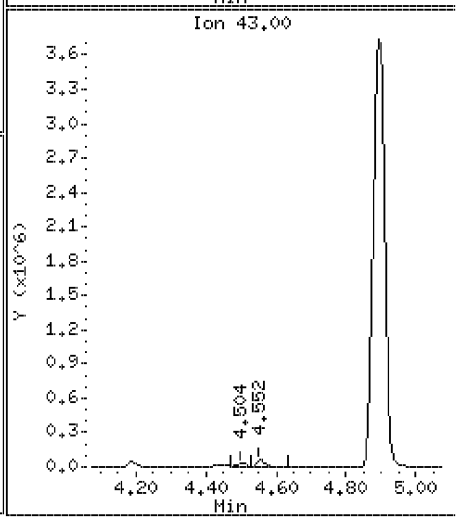












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

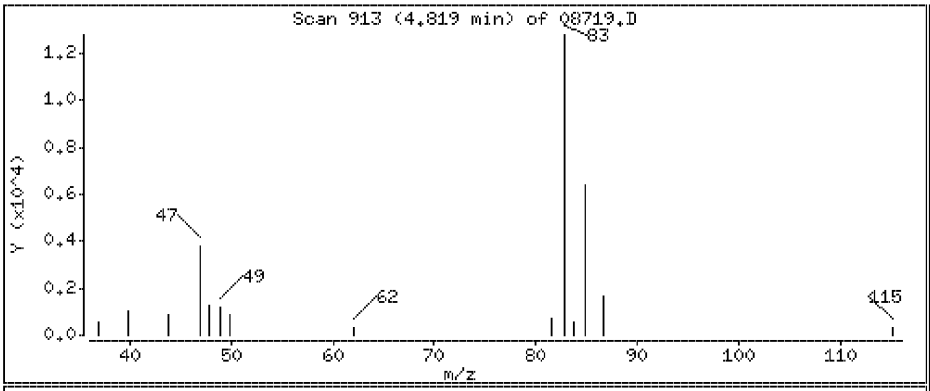
Operator: NCK

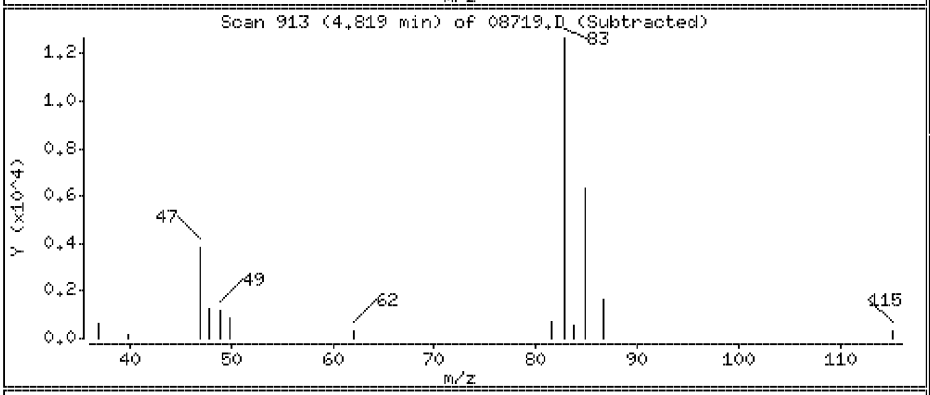
Column phase: J&W DB-5

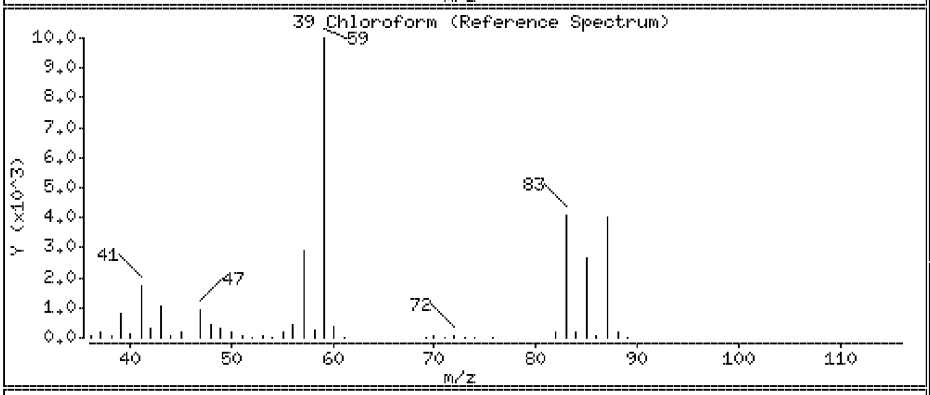
Column diameter: 0.32

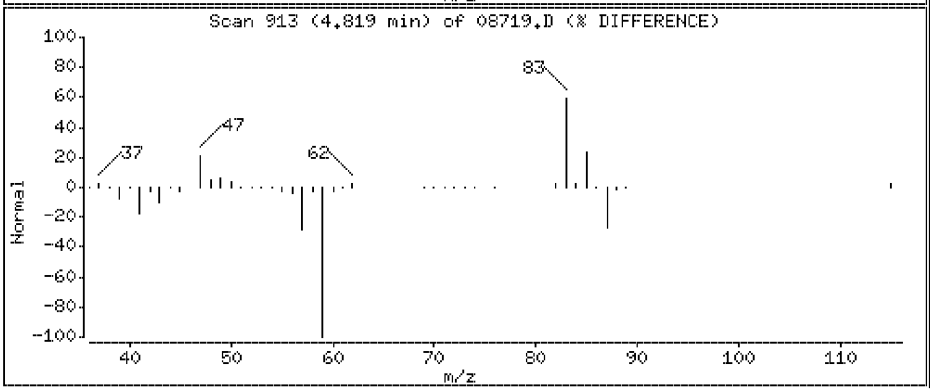
39 Chloroform

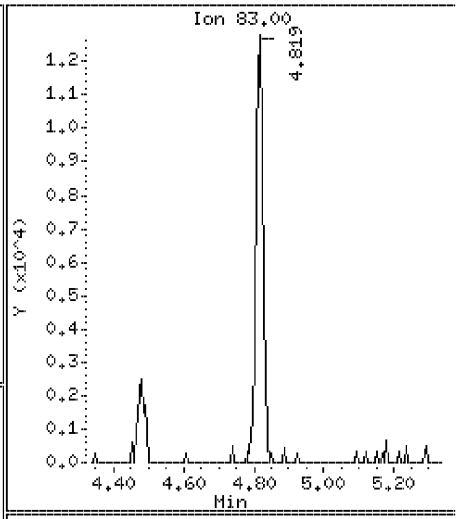
Concentration: 0.349 ppbv

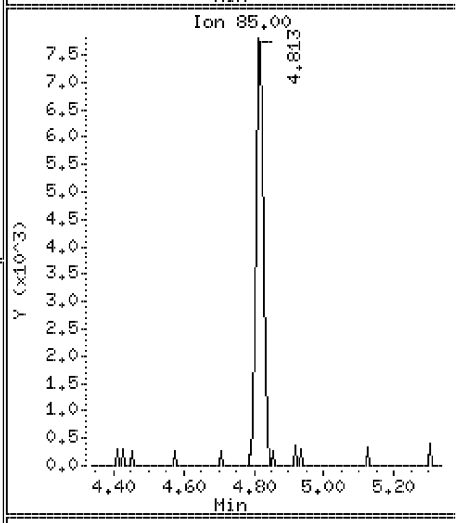


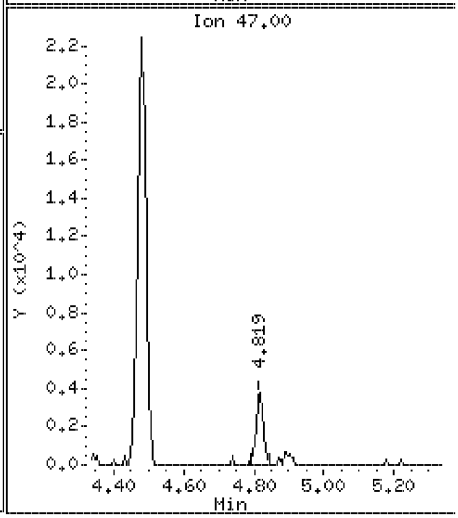












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

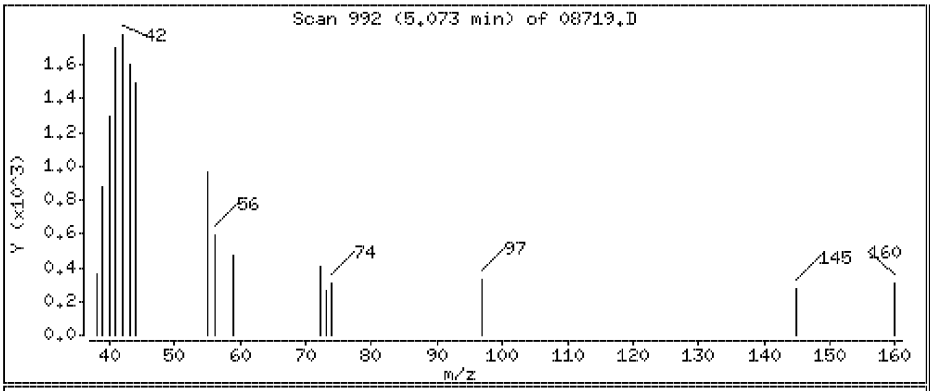
Operator: NCK

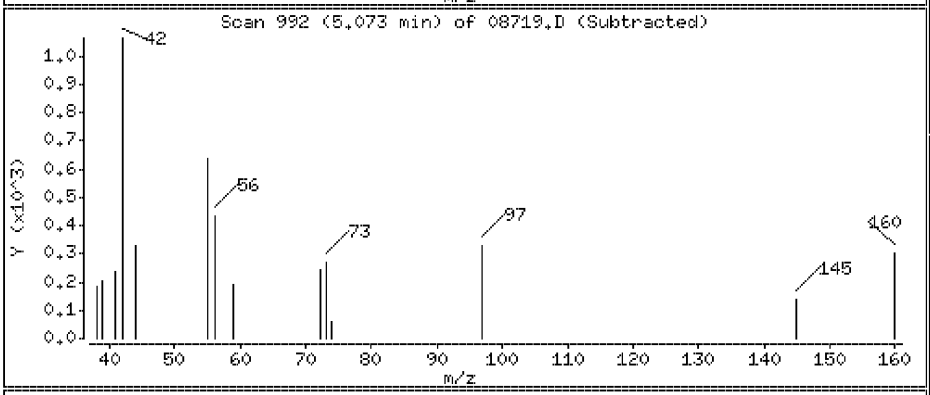
Column phase: J&W DB-5

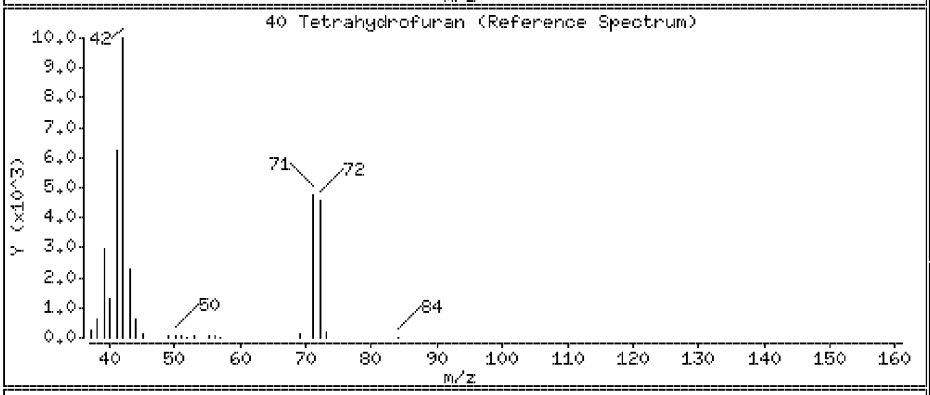
Column diameter: 0.32

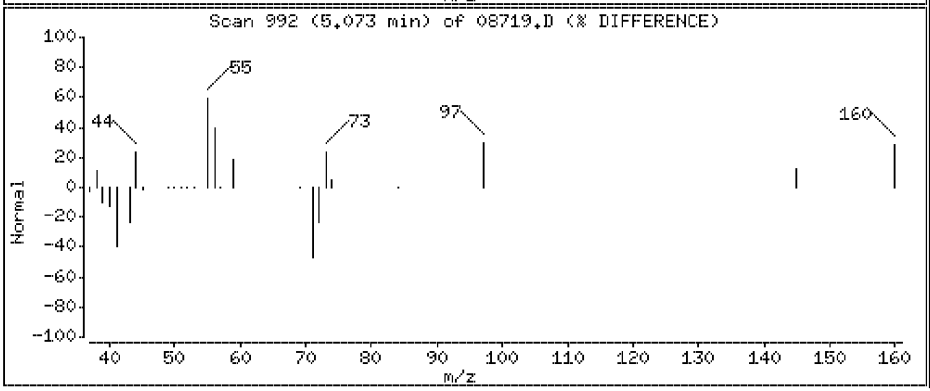
40 Tetrahydrofuran

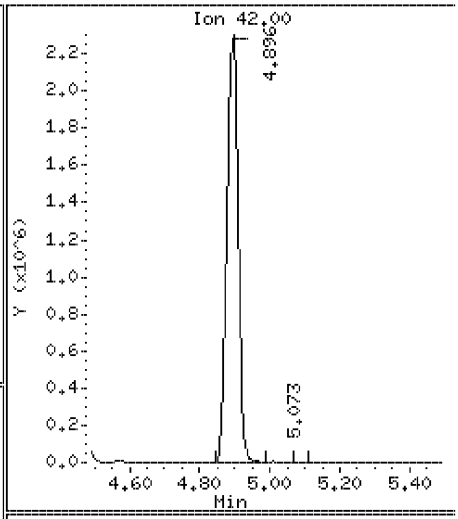
Concentration: 0.0243 ppbv

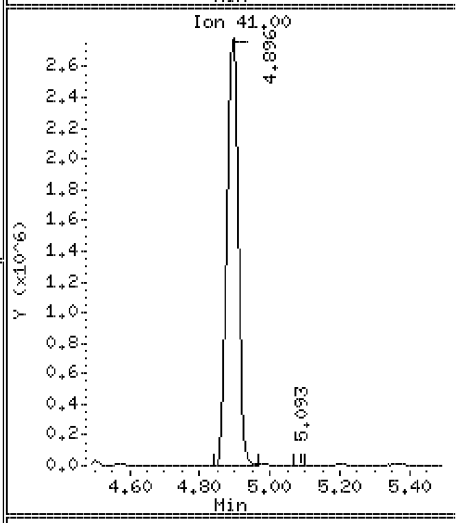


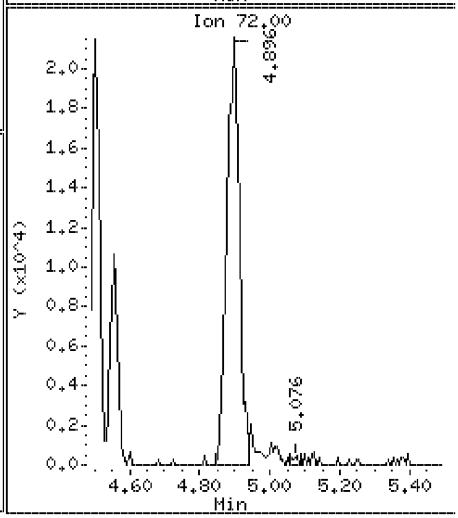












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

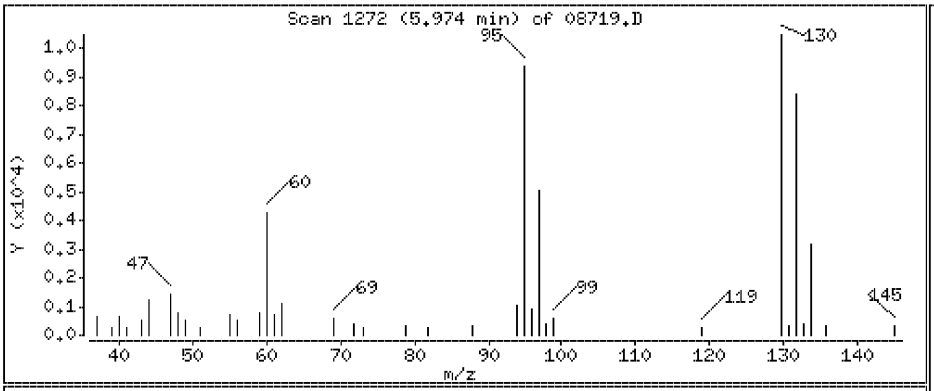
Operator: NCK

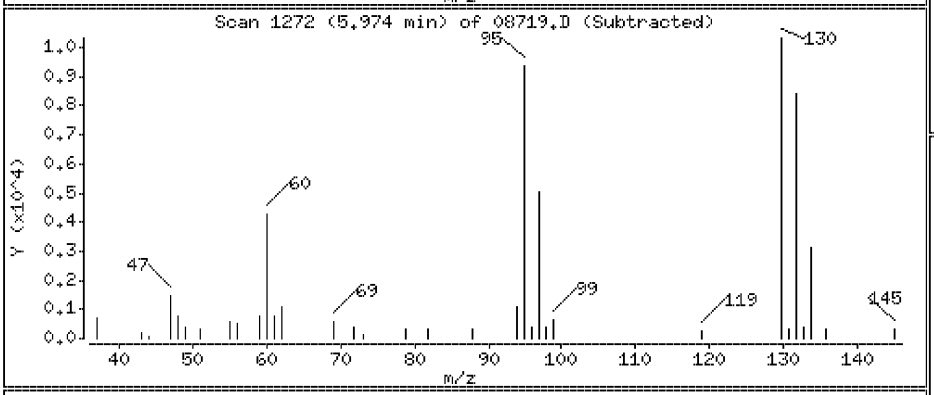
Column phase: J&W DB-5

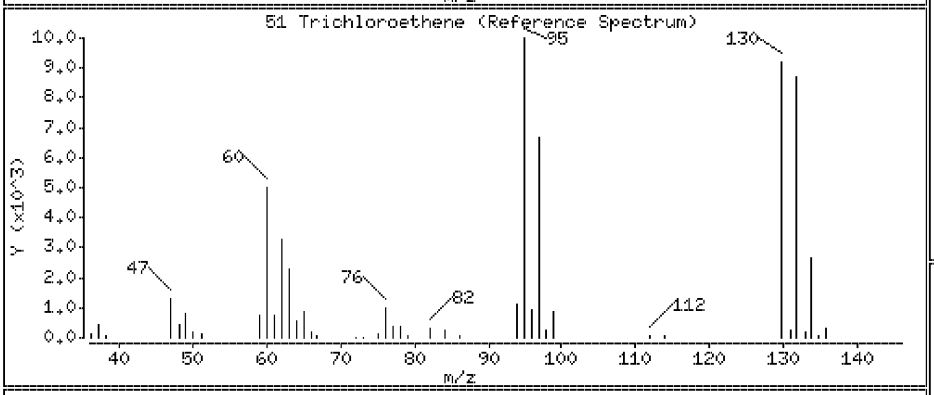
Column diameter: 0.32

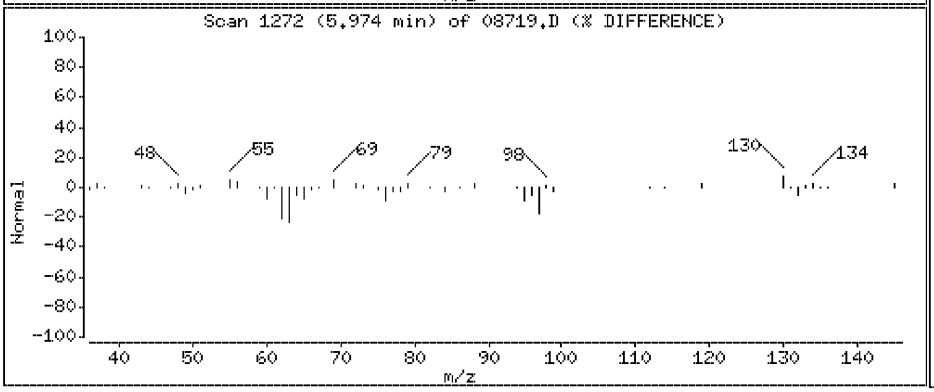
51 Trichloroethene

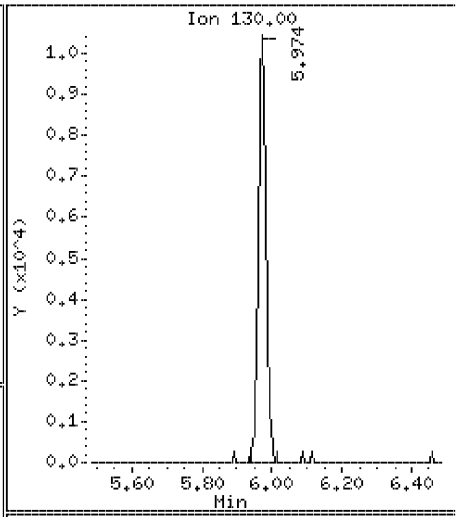
Concentration: 0.317 ppbv

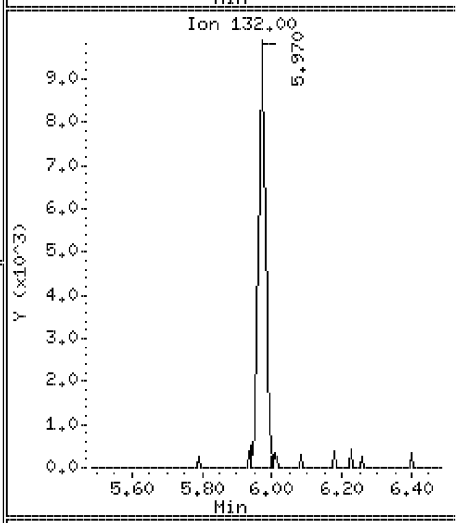


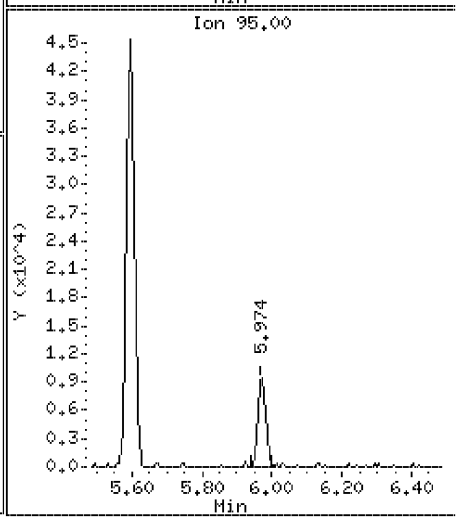












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

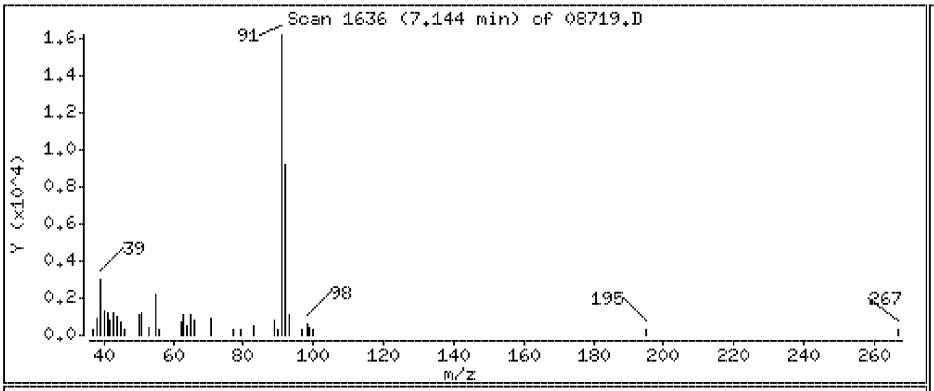
Operator: NCK

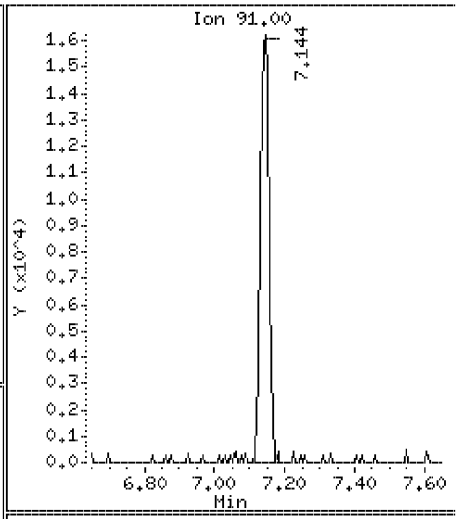
Column phase: J&W DB-5

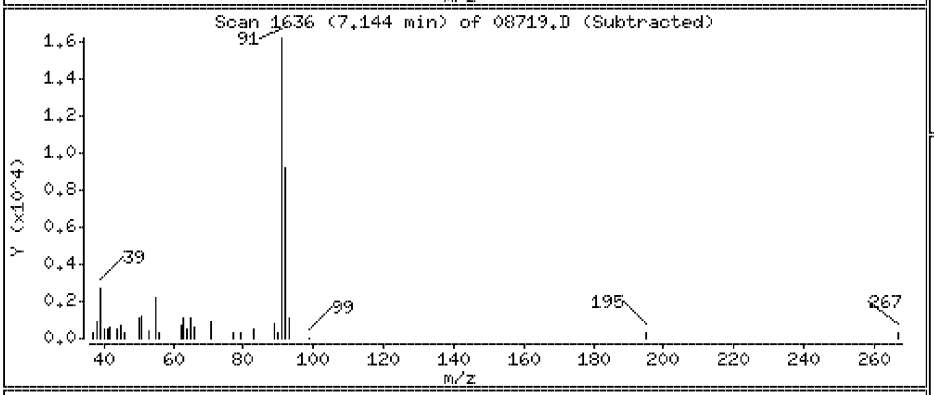
Column diameter: 0.32

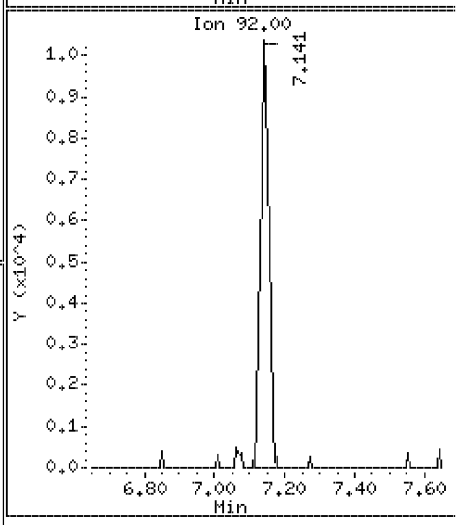
61 Toluene

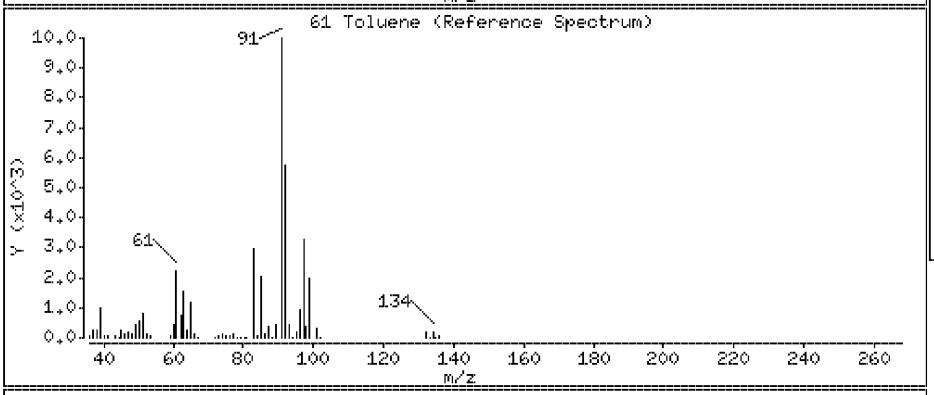
Concentration: 0.254 ppbv

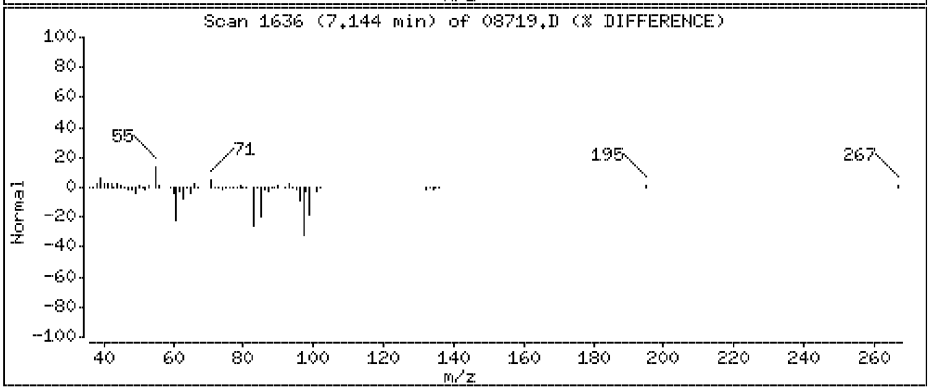












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

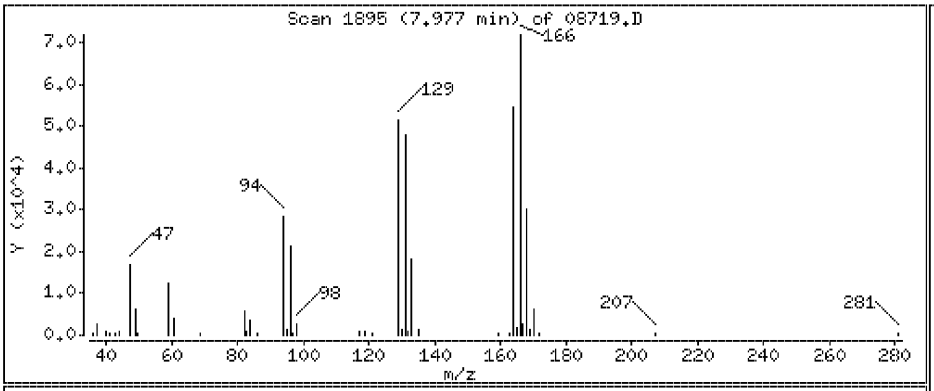
Operator: NCK

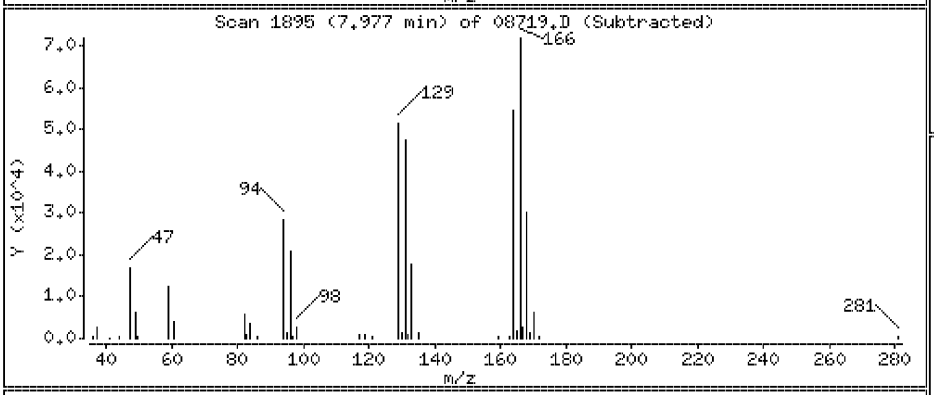
Column phase: J&W DB-5

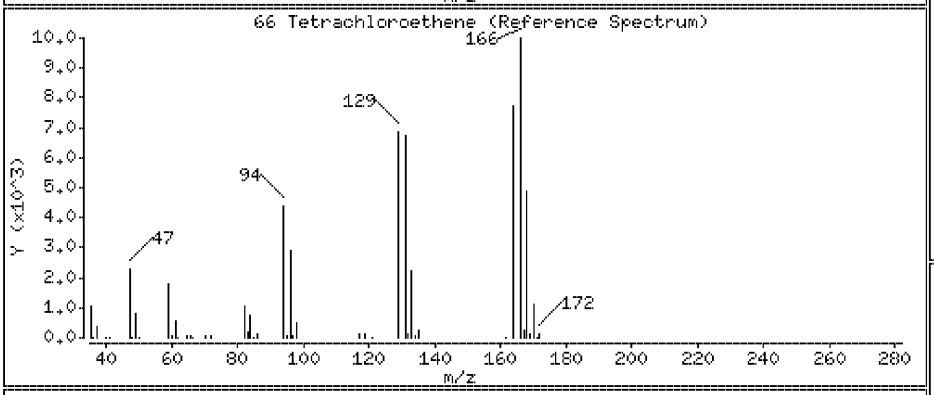
Column diameter: 0.32

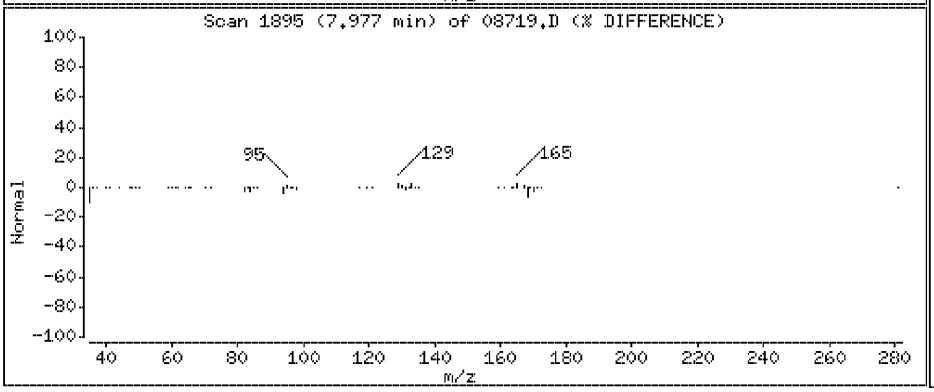
66 Tetrachloroethene

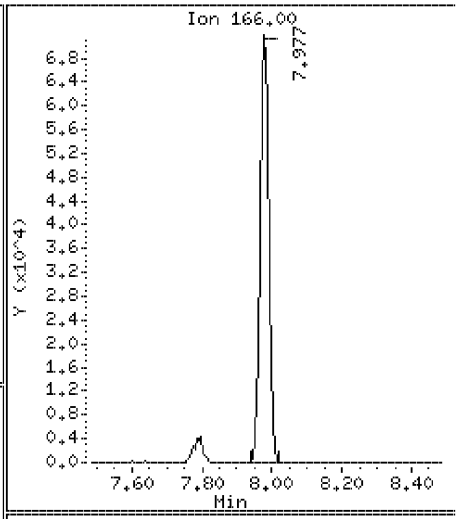
Concentration: 2.00 ppbv

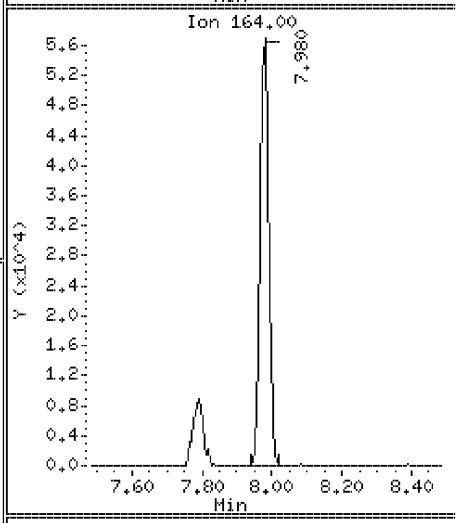


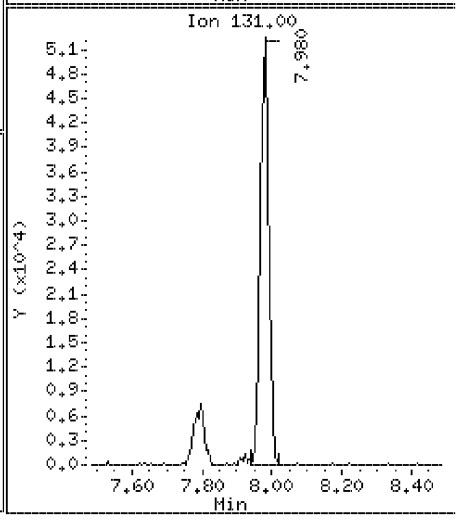












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08719.D

Date : 28-MAR-2017 18:36

Client ID:

Instrument: 10airB.i

Sample Info:

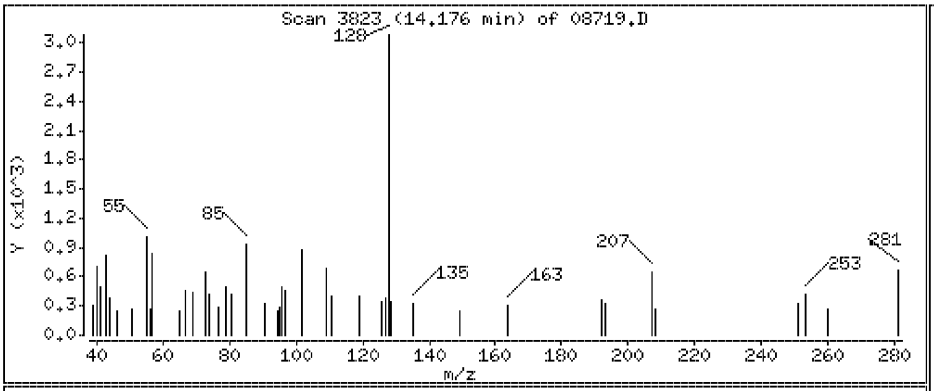
Operator: NCK

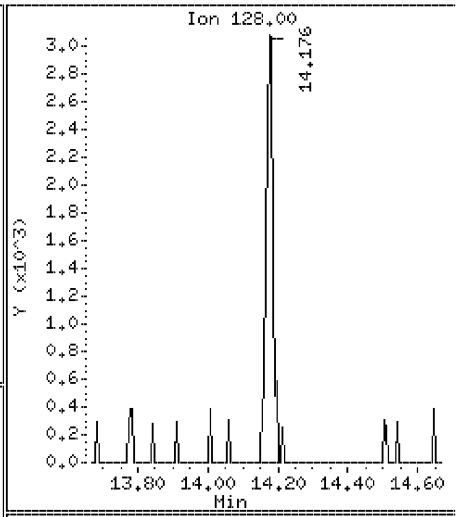
Column phase: J&W DB-5

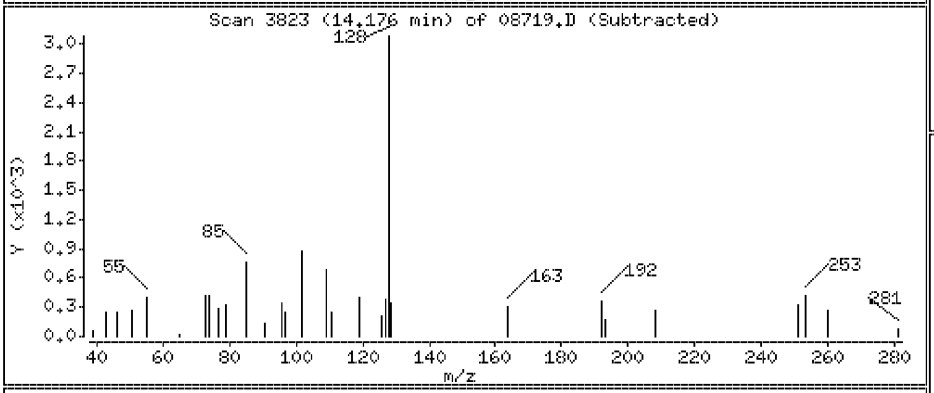
Column diameter: 0.32

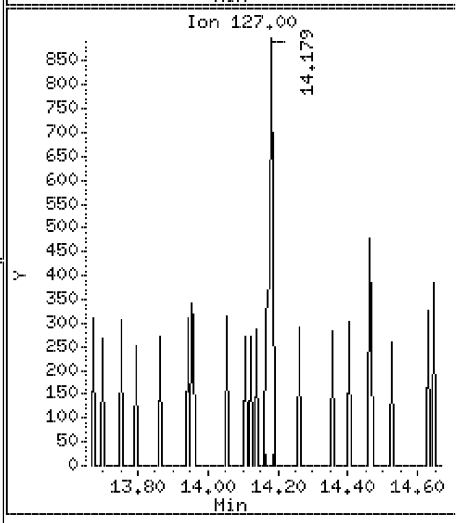
94 Naphthalene

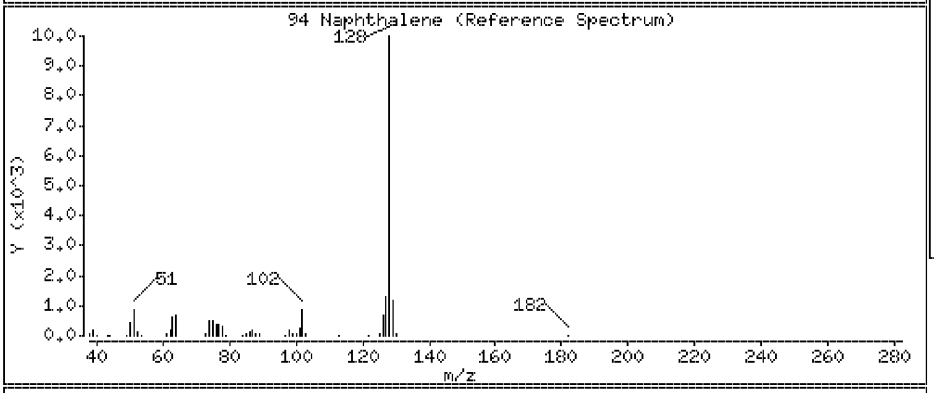
Concentration: 0.647 ppbv

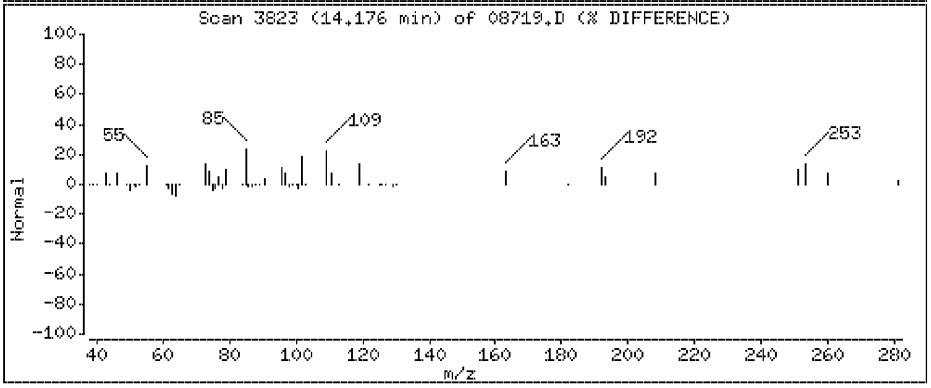












Data File: \\192.168.10.12\chem\10airB.i\032817.b/08719.D
Injection Date: 28-MAR-2017 18:36
Instrument: 10airB.i
Lab Sample ID: 10381335010
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_5_20170307 **Lab ID: 10381335010** Collected: 03/07/17 12:01 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/28/17 18:36	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/28/17 18:36	79-34-5	
Tetrachloroethene	**13.8**	ug/m3	1.2	0.47	1.68		03/28/17 18:36	127-18-4	
Toluene	**0.97J**	ug/m3	1.3	0.26	1.68		03/28/17 18:36	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/28/17 18:36	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/28/17 18:36	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/28/17 18:36	79-00-5	
Trichloroethene	**1.7**	ug/m3	0.92	0.46	1.68		03/28/17 18:36	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.9	0.22	1.68		03/28/17 18:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.1J**	ug/m3	2.7	0.51	1.68		03/28/17 18:36	76-13-1	
1,2,4-Trimethylbenzene	**<0.21**	ug/m3	1.7	0.21	1.68		03/28/17 18:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/28/17 18:36	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/28/17 18:36	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/28/17 18:36	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/28/17 18:36	95-47-6	

Sample: VP-3_10_20170307 **Lab ID: 10381335011** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.6**	ug/m3	6.2	2.1	2.57		03/31/17 05:31	67-64-1	CH,L1
Allyl chloride	**<0.58**	ug/m3	4.1	0.58	2.57		03/31/17 05:31	107-05-1	
Benzene	**<0.31**	ug/m3	0.84	0.31	2.57		03/31/17 05:31	71-43-2	
Bromodichloromethane	**<0.50**	ug/m3	17.5	0.50	2.57		03/31/17 05:31	75-27-4	
Bromoform	**<2.3**	ug/m3	5.4	2.3	2.57		03/31/17 05:31	75-25-2	
Bromomethane	**<0.80**	ug/m3	2.0	0.80	2.57		03/31/17 05:31	74-83-9	
1,3-Butadiene	**<0.45**	ug/m3	1.2	0.45	2.57		03/31/17 05:31	106-99-0	
2-Butanone (MEK)	**<0.59**	ug/m3	7.7	0.59	2.57		03/31/17 05:31	78-93-3	
Carbon disulfide	**<0.26**	ug/m3	1.6	0.26	2.57		03/31/17 05:31	75-15-0	
Carbon tetrachloride	**<0.50**	ug/m3	1.6	0.50	2.57		03/31/17 05:31	56-23-5	
Chlorobenzene	**<0.34**	ug/m3	2.4	0.34	2.57		03/31/17 05:31	108-90-7	
Chlorodifluoromethane	**<0.71**	ug/m3	1.8	0.71	2.57		03/31/17 05:31	75-45-6	
Chloroethane	**<0.50**	ug/m3	1.4	0.50	2.57		03/31/17 05:31	75-00-3	
Chloroform	**0.89J**	ug/m3	1.3	0.49	2.57		03/31/17 05:31	67-66-3	CH,L1
Chloromethane	**<0.28**	ug/m3	1.1	0.28	2.57		03/31/17 05:31	74-87-3	
Chloropentafluoroethane	**<8.2**	ug/m3	8.2	8.2	2.57		03/31/17 05:31	76-15-3	
Cyclohexane	**<0.81**	ug/m3	1.8	0.81	2.57		03/31/17 05:31	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.6**	ug/m3	12.6	12.6	2.57		03/31/17 05:31	96-12-8	
Dibromochloromethane	**<2.2**	ug/m3	4.4	2.2	2.57		03/31/17 05:31	124-48-1	
1,2-Dibromoethane (EDB)	**<2.0**	ug/m3	4.0	2.0	2.57		03/31/17 05:31	106-93-4	
1,2-Dichlorobenzene	**<1.3**	ug/m3	3.1	1.3	2.57		03/31/17 05:31	95-50-1	
1,3-Dichlorobenzene	**<1.4**	ug/m3	3.1	1.4	2.57		03/31/17 05:31	541-73-1	
1,4-Dichlorobenzene	**<1.3**	ug/m3	7.9	1.3	2.57		03/31/17 05:31	106-46-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_10_20170307 **Lab ID: 10381335011** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Dichlorodifluoromethane	**2.7**	ug/m3	2.6	1.2	2.57		03/31/17 05:31	75-71-8	
1,1-Dichloroethane	**<0.40**	ug/m3	2.1	0.40	2.57		03/31/17 05:31	75-34-3	
1,2-Dichloroethane	**<0.53**	ug/m3	1.1	0.53	2.57		03/31/17 05:31	107-06-2	
1,1-Dichloroethene	**<0.61**	ug/m3	2.1	0.61	2.57		03/31/17 05:31	75-35-4	
cis-1,2-Dichloroethene	**<0.63**	ug/m3	2.1	0.63	2.57		03/31/17 05:31	156-59-2	
trans-1,2-Dichloroethene	**<0.99**	ug/m3	2.1	0.99	2.57		03/31/17 05:31	156-60-5	
1,2-Dichloropropane	**<0.69**	ug/m3	2.4	0.69	2.57		03/31/17 05:31	78-87-5	
cis-1,3-Dichloropropene	**<0.95**	ug/m3	2.4	0.95	2.57		03/31/17 05:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.67**	ug/m3	2.4	0.67	2.57		03/31/17 05:31	10061-02-6	
Dichlorotetrafluoroethane	**<0.80**	ug/m3	3.6	0.80	2.57		03/31/17 05:31	76-14-2	
Freon 123	**<8.2**	ug/m3	8.2	8.2	2.57		03/31/17 05:31	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.90**	ug/m3	9.4	0.90	2.57		03/31/17 05:31	123-91-1	
Ethylbenzene	**<1.1**	ug/m3	2.3	1.1	2.57		03/31/17 05:31	100-41-4	
4-Ethyltoluene	**<0.48**	ug/m3	2.6	0.48	2.57		03/31/17 05:31	622-96-8	
Hexachloro-1,3-butadiene	**<1.7**	ug/m3	5.6	1.7	2.57		03/31/17 05:31	87-68-3	
n-Hexane	**1.6J**	ug/m3	1.9	0.92	2.57		03/31/17 05:31	110-54-3	CH,L1
2-Hexanone	**<1.1**	ug/m3	10.7	1.1	2.57		03/31/17 05:31	591-78-6	
Isopropylbenzene (Cumene)	**<0.35**	ug/m3	6.4	0.35	2.57		03/31/17 05:31	98-82-8	
Methyl acetate	**<4.0**	ug/m3	4.0	4.0	2.57		03/31/17 05:31	79-20-9	
Methylcyclohexane	**<0.62**	ug/m3	2.1	0.62	2.57		03/31/17 05:31	108-87-2	
Methylene Chloride	**9.1**	ug/m3	9.1	1.4	2.57		03/31/17 05:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.56**	ug/m3	10.7	0.56	2.57		03/31/17 05:31	108-10-1	
Methyl-tert-butyl ether	**<0.78**	ug/m3	9.4	0.78	2.57		03/31/17 05:31	1634-04-4	
2-Propanol	**<0.62**	ug/m3	6.4	0.62	2.57		03/31/17 05:31	67-63-0	
Styrene	**<0.50**	ug/m3	2.2	0.50	2.57		03/31/17 05:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.85**	ug/m3	1.8	0.85	2.57		03/31/17 05:31	79-34-5	
Tetrachloroethene	**35.9**	ug/m3	1.8	0.71	2.57		03/31/17 05:31	127-18-4	
Toluene	**<0.40**	ug/m3	2.0	0.40	2.57		03/31/17 05:31	108-88-3	
1,2,4-Trichlorobenzene	**<2.3**	ug/m3	9.7	2.3	2.57		03/31/17 05:31	120-82-1	
1,1,1-Trichloroethane	**<0.63**	ug/m3	2.9	0.63	2.57		03/31/17 05:31	71-55-6	
1,1,2-Trichloroethane	**<0.63**	ug/m3	1.4	0.63	2.57		03/31/17 05:31	79-00-5	
Trichloroethene	**9.7**	ug/m3	1.4	0.71	2.57		03/31/17 05:31	79-01-6	
Trichlorofluoromethane	**1.9J**	ug/m3	2.9	0.34	2.57		03/31/17 05:31	75-69-4	CH,L1
1,1,2-Trichlorotrifluoroethane	**2.4J**	ug/m3	4.1	0.77	2.57		03/31/17 05:31	76-13-1	CH,L1
1,2,4-Trimethylbenzene	**<0.32**	ug/m3	2.6	0.32	2.57		03/31/17 05:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.47**	ug/m3	2.6	0.47	2.57		03/31/17 05:31	108-67-8	
Vinyl chloride	**<0.50**	ug/m3	0.67	0.50	2.57		03/31/17 05:31	75-01-4	
m&p-Xylene	**<2.0**	ug/m3	4.5	2.0	2.57		03/31/17 05:31	179601-23-1	
o-Xylene	**<0.90**	ug/m3	2.3	0.90	2.57		03/31/17 05:31	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D
Report Date: 04-Apr-2017 12:53

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08936.D
Lab Smp Id: 10381335011
Inj Date : 31-MAR-2017 05:31
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28049
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 04-Apr-2017 12:52 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 36
Dil Factor: 2.57280
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.573	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.092	3.114	(0.548)	28968	0.20529	0.528	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.674	3.671	(0.651)	27646	1.47651	3.80(M)	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.722	3.745	(0.660)	13055	0.12959	0.333	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.793	3.806	(0.672)	178241	2.51436	6.47	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.999	4.018	(0.709)	9194	0.11859	0.305	
23	Methyl Acetate	43	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D
Report Date: 04-Apr-2017 12:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	4.047	4.069	(0.717)	54789	1.00673	2.59	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.539	4.548	(0.805)	900902	12.0500	12.1	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.636	4.645	(0.822)	13729	0.17255	0.444(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	4.867	4.915	(0.863)	5986	0.06952	0.179	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.642	5.674	(1.000)	1958186	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	6.008	6.047	(1.065)	51800	0.69032	1.78	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.098	7.121	(1.258)	1587510	9.60149	9.60	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.005	8.021	(0.924)	184774	2.02368	5.21	
*	67 Chlorobenzene - d5	117	8.661	8.677	(1.000)	1121217	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D
Report Date: 04-Apr-2017 12:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.860	11.870	(1.369)	500684	9.79426	9.79	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.179	14.182	(1.637)	1543	0.29459	0.758	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D
Report Date: 04-Apr-2017 12:53

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08936.D
Lab Smp Id: 10381335011
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info: 28049

Calibration Date: 31-MAR-2017
Calibration Time: 03:32
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

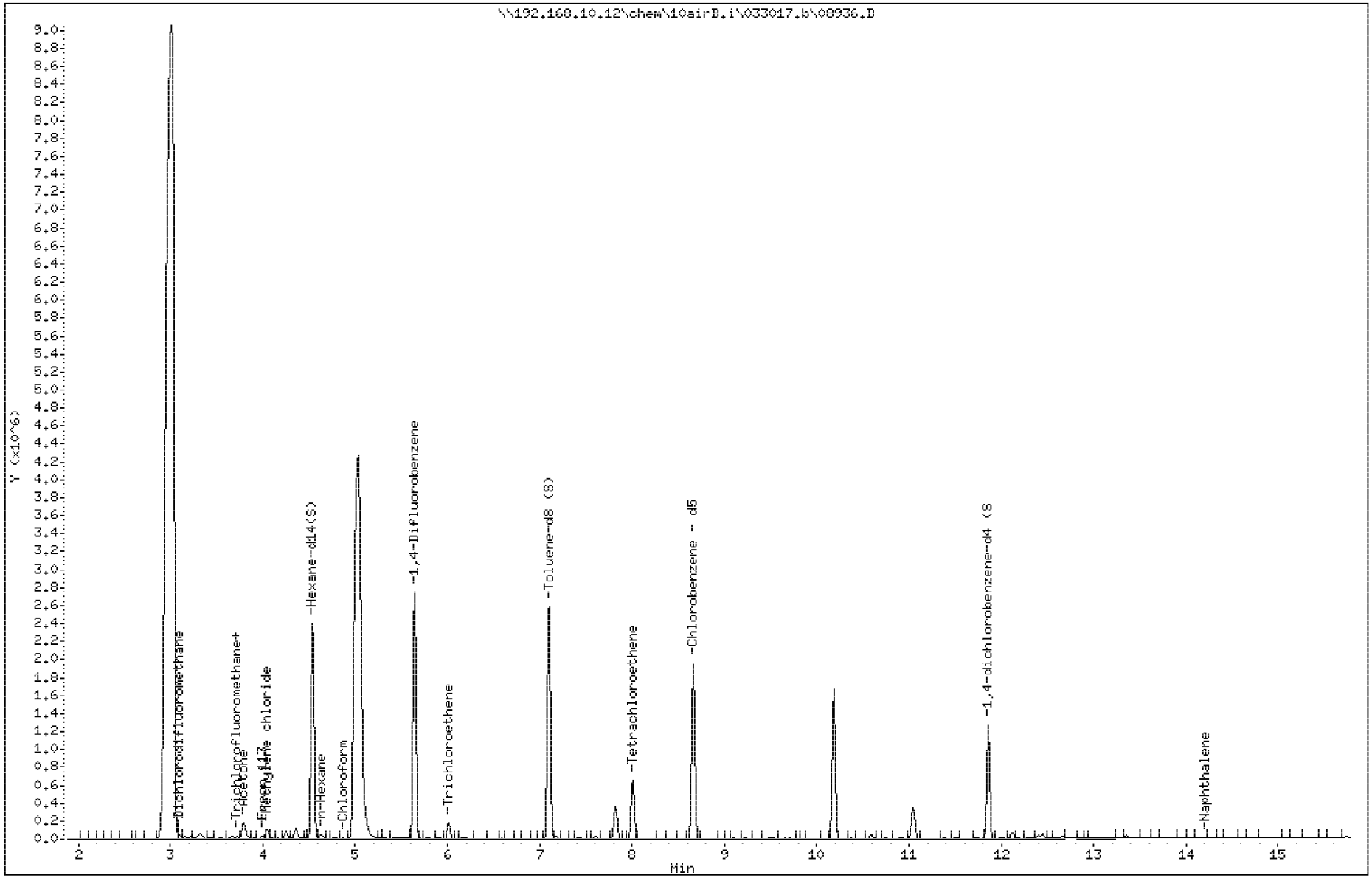
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	1958186	7.45
67 Chlorobenzene - d	1204744	722846	1686642	1121217	-6.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.67	5.34	6.00	5.64	-0.56
67 Chlorobenzene - d	8.68	8.35	9.01	8.66	-0.18

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D
Date : 31-MAR-2017 05:31
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

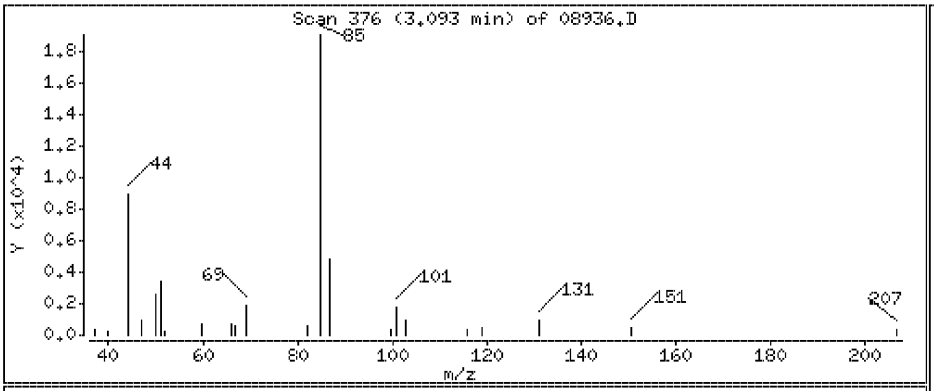
Operator: NCK

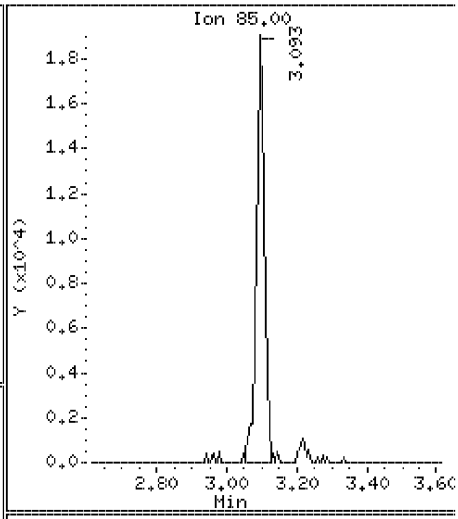
Column phase: J&W DB-5

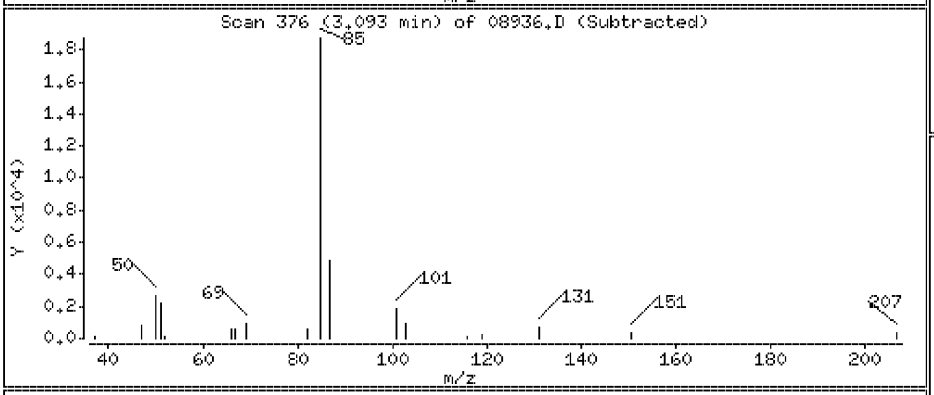
Column diameter: 0.32

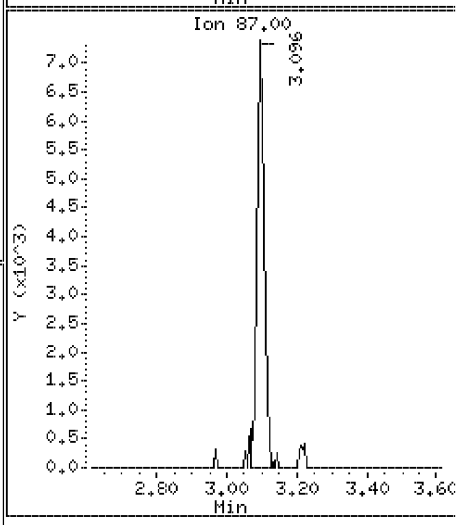
5 Dichlorodifluoromethane

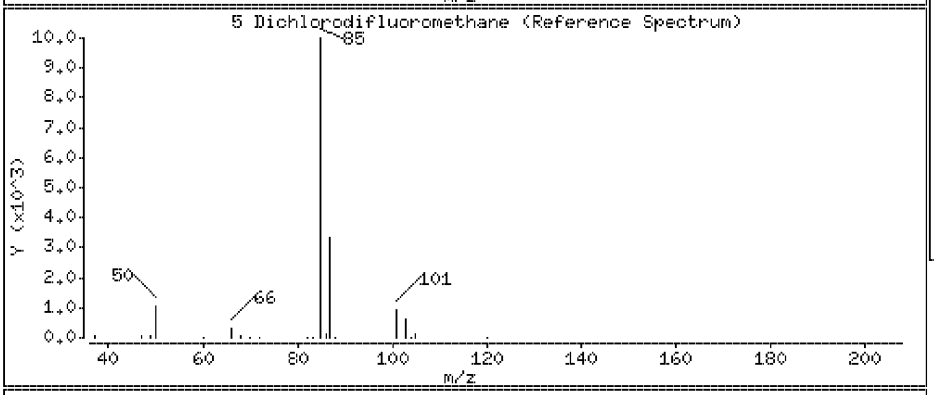
Concentration: 0.528 ppbv

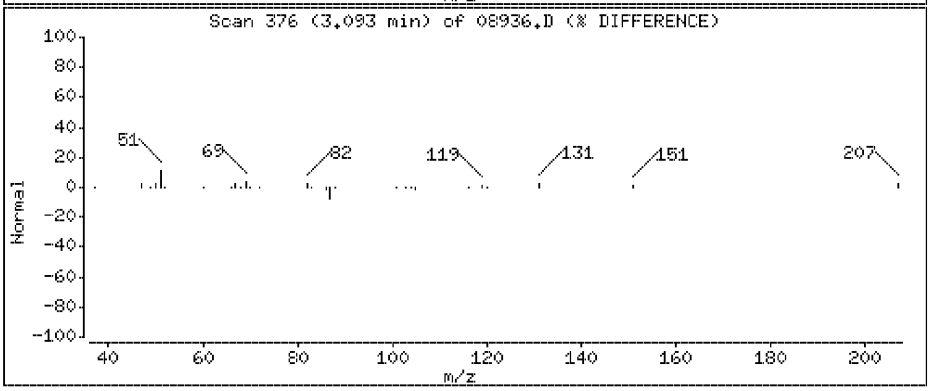












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

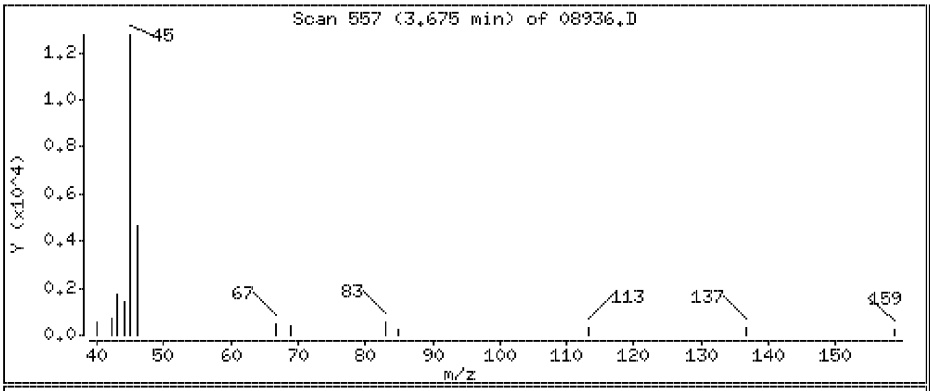
Operator: NCK

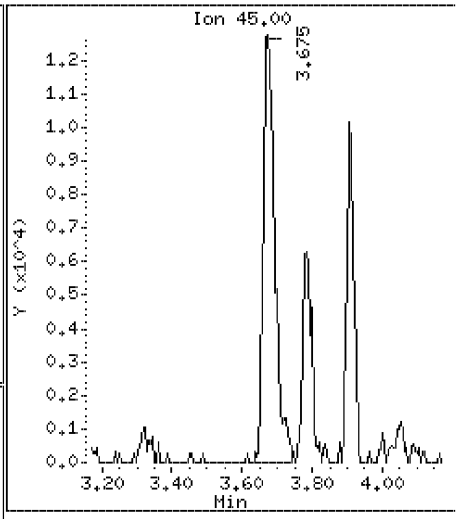
Column phase: J&W DB-5

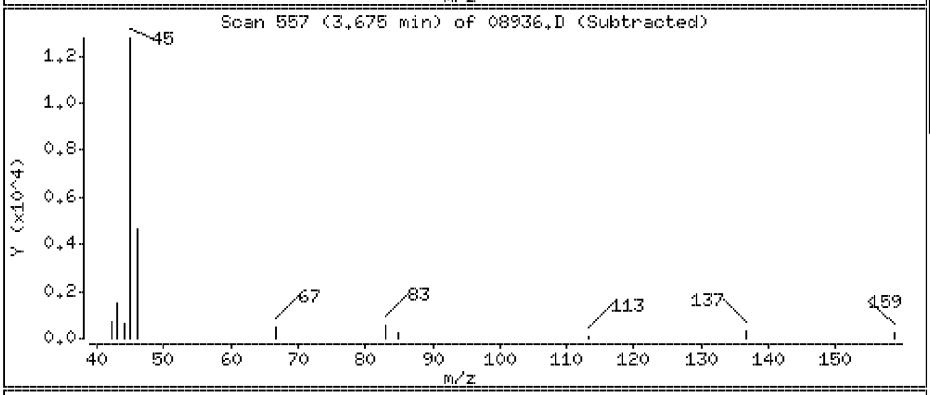
Column diameter: 0.32

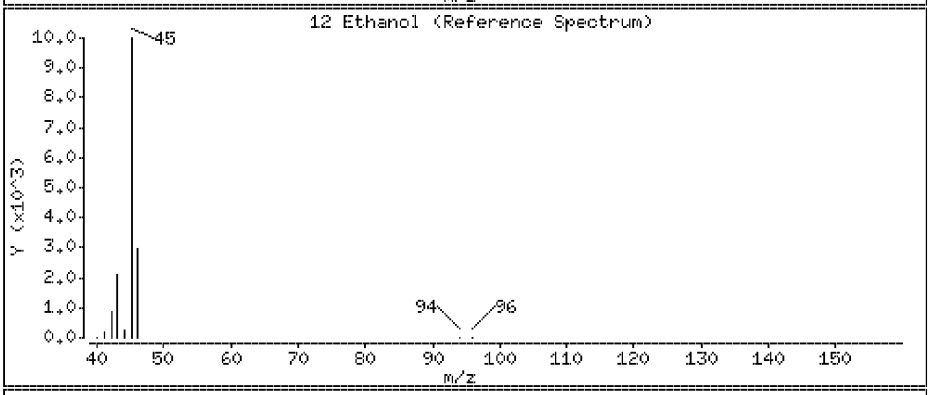
12 Ethanol

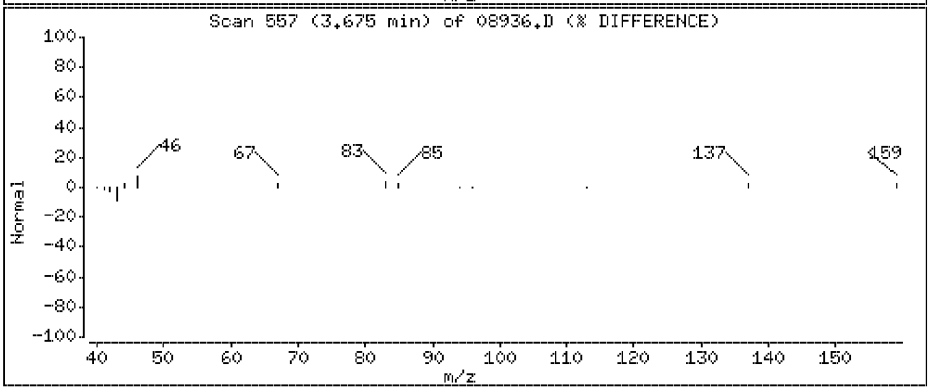
Concentration: 3.80 ppbv











Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

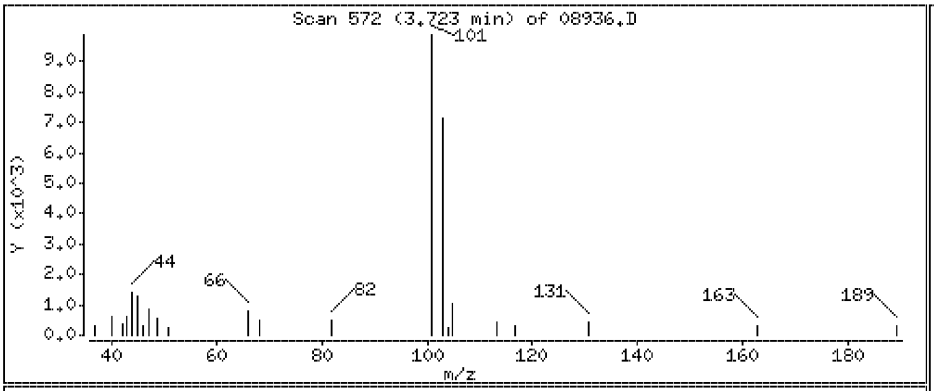
Operator: NCK

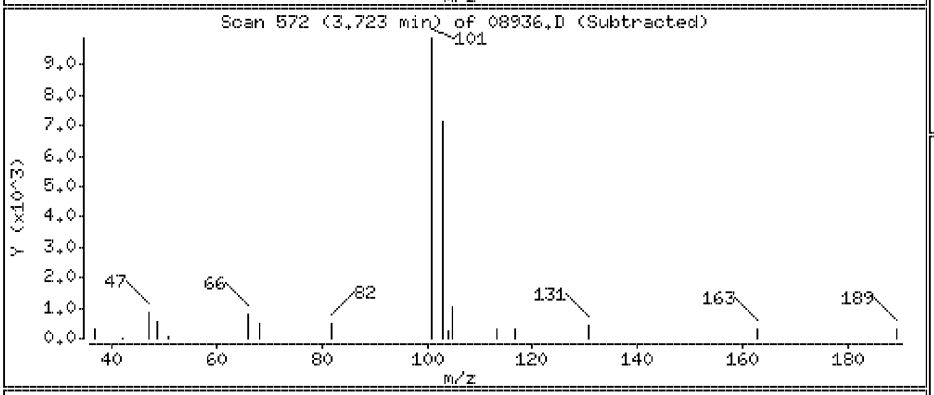
Column phase: J&W DB-5

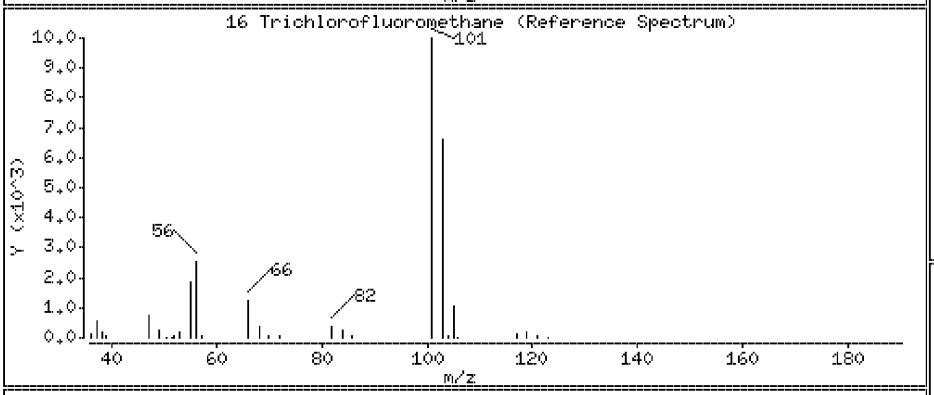
Column diameter: 0.32

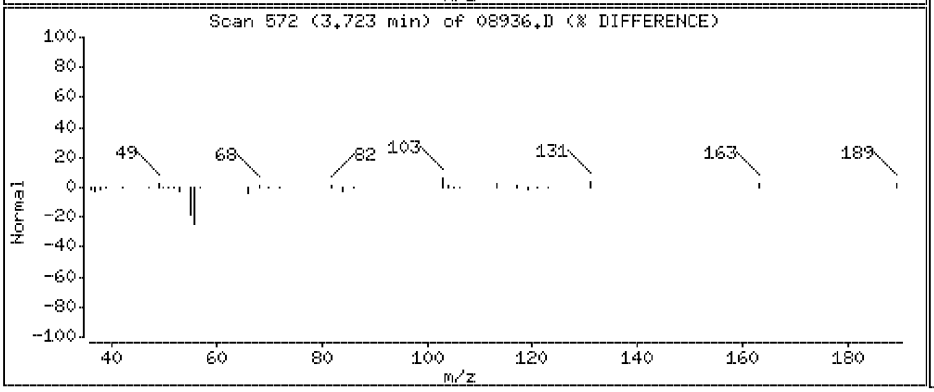
16 Trichlorofluoromethane

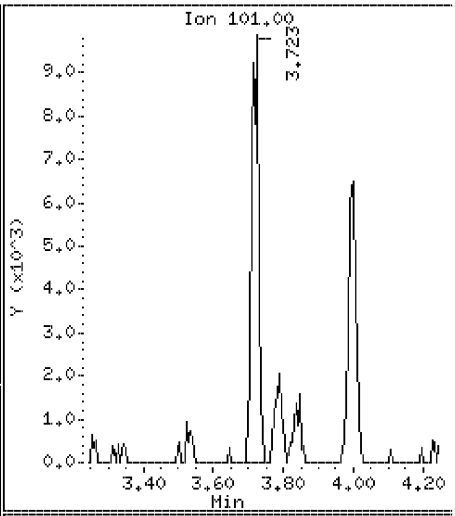
Concentration: 0.333 ppbv

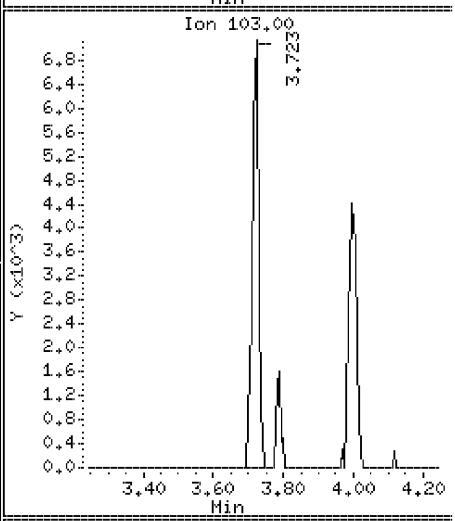


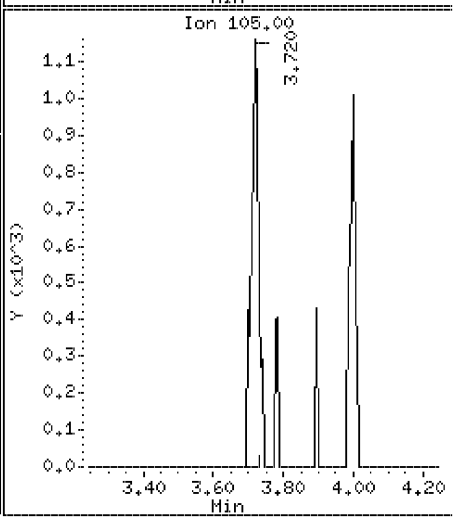












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

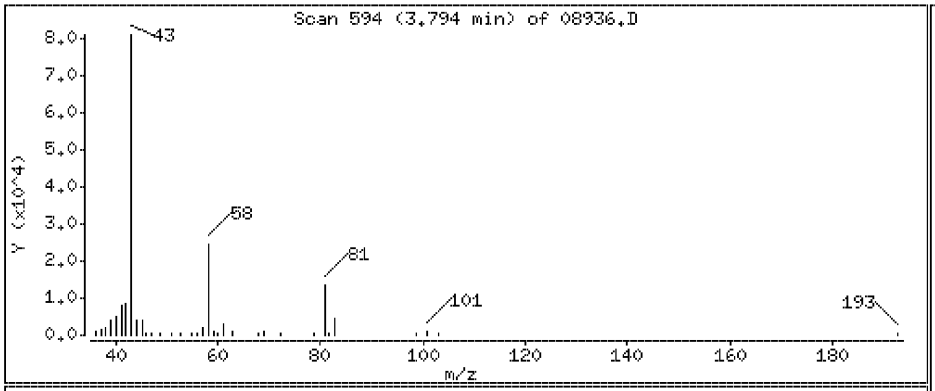
Operator: NCK

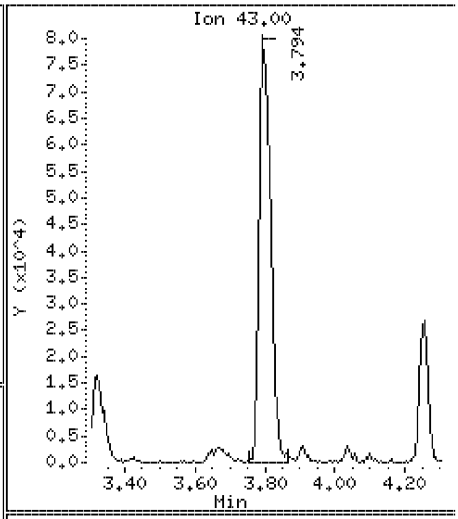
Column phase: J&W DB-5

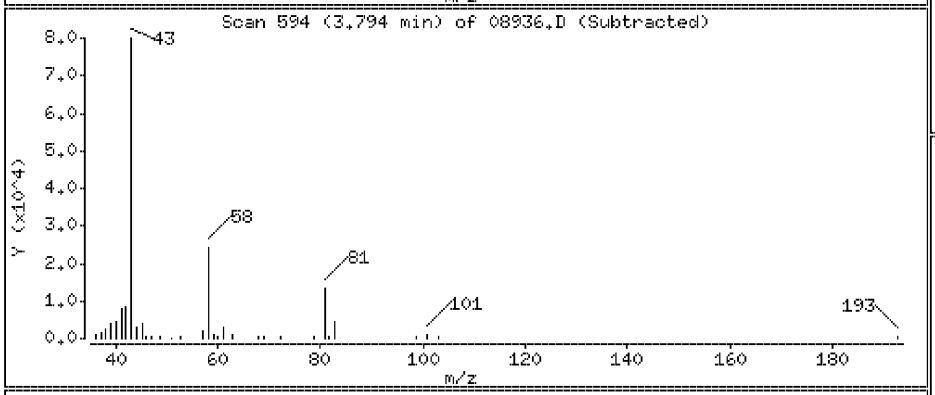
Column diameter: 0.32

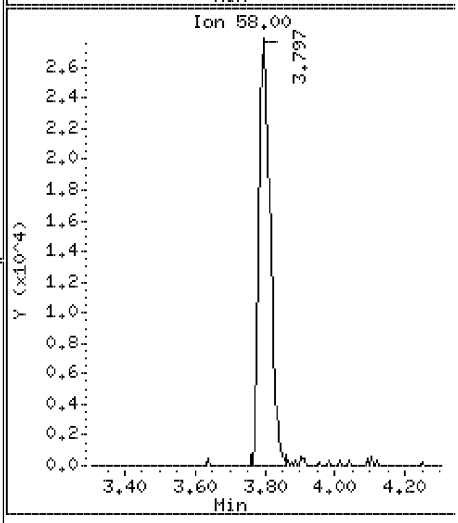
18 Acetone

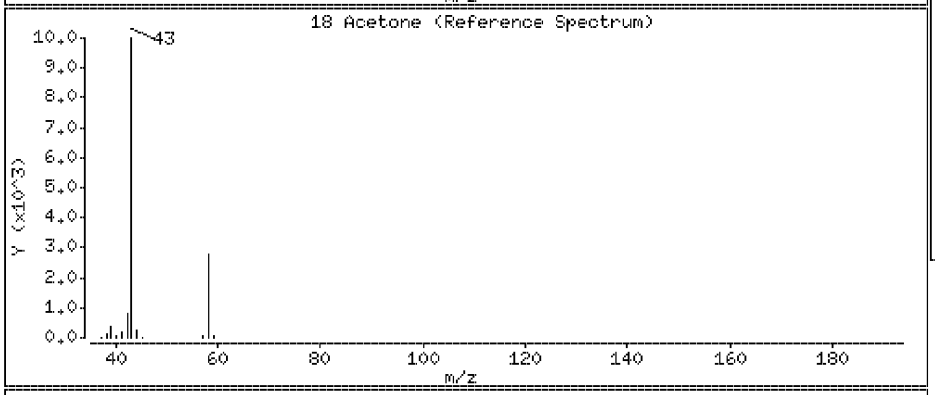
Concentration: 6.47 ppbv

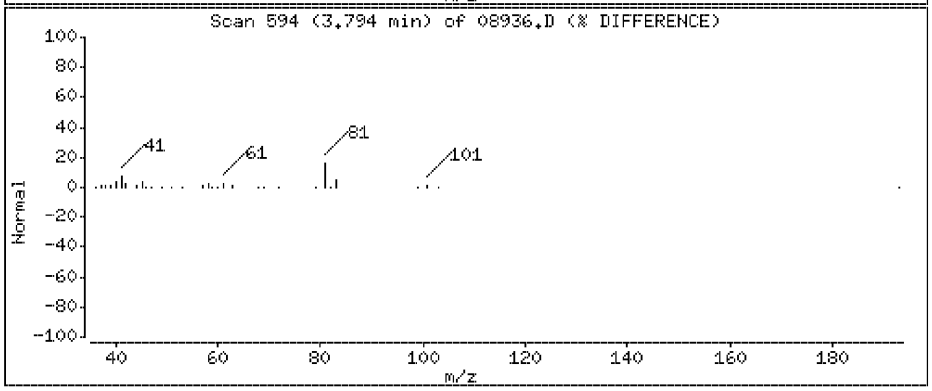












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

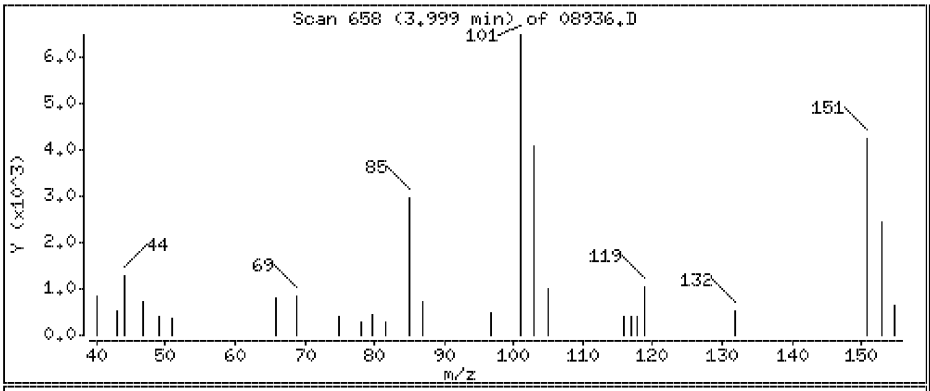
Operator: NCK

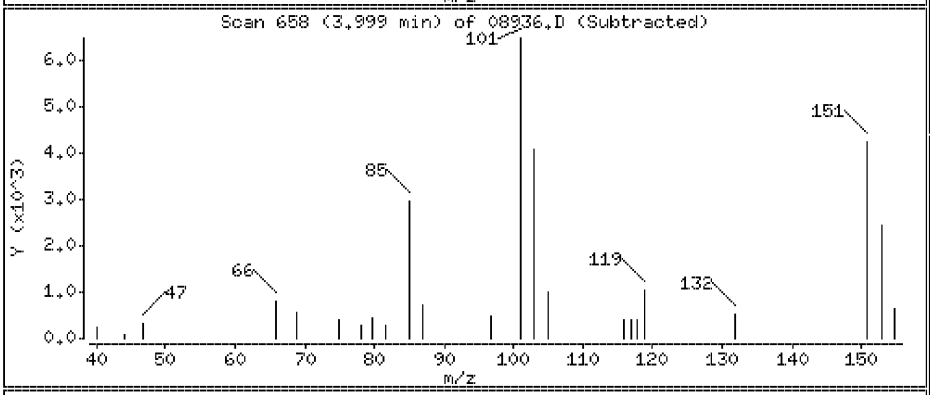
Column phase: J&W DB-5

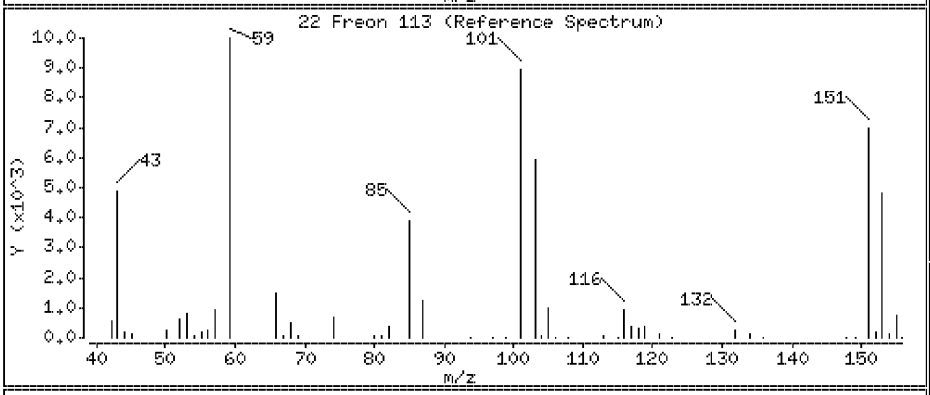
Column diameter: 0.32

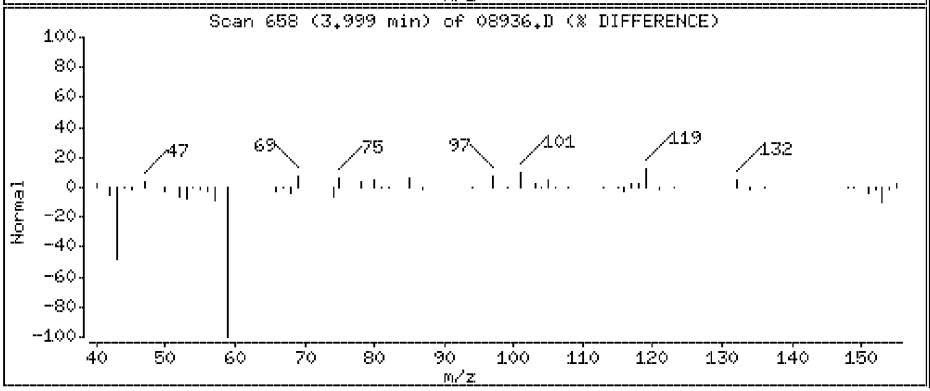
22 Freon 113

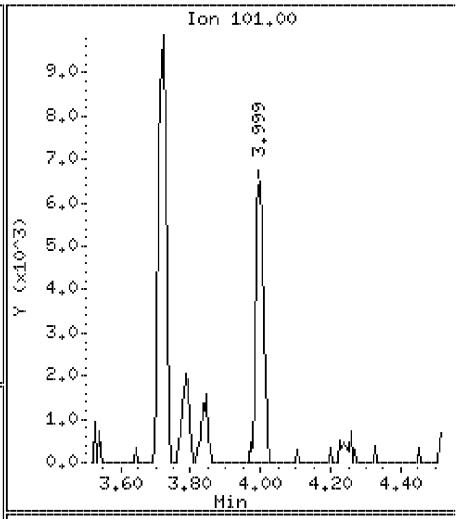
Concentration: 0.305 ppbv

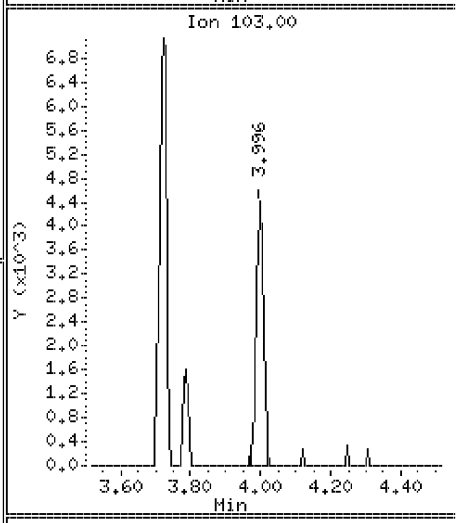


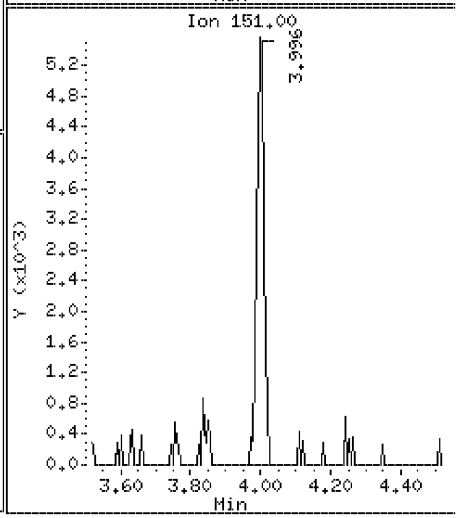












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

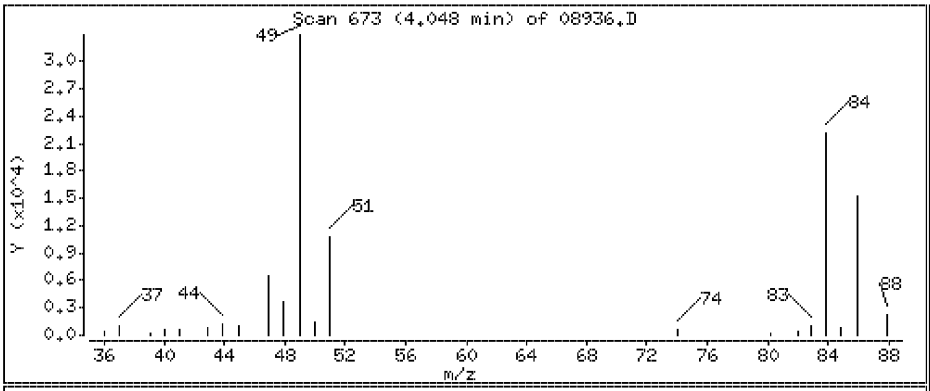
Operator: NCK

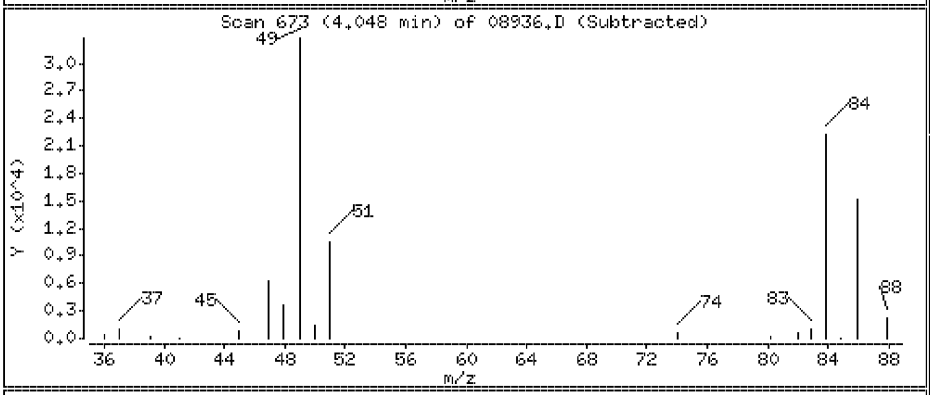
Column phase: J&W DB-5

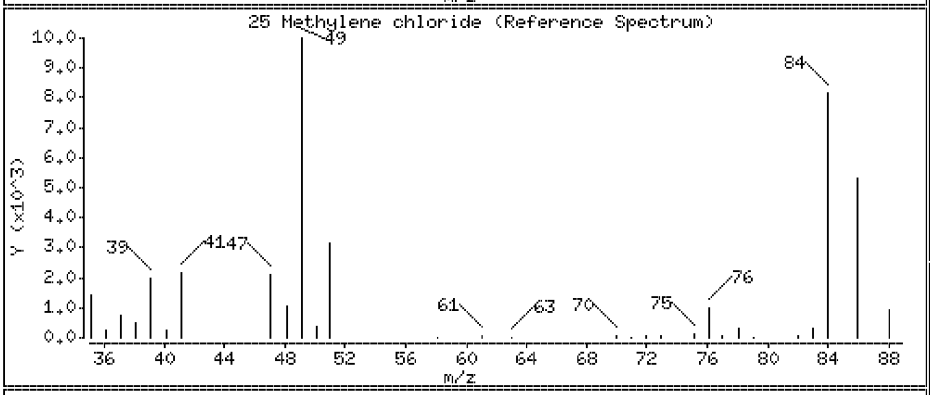
Column diameter: 0.32

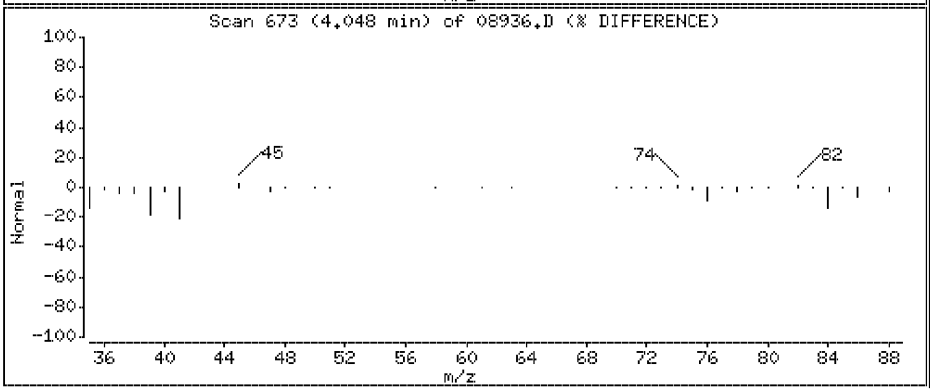
25 Methylene chloride

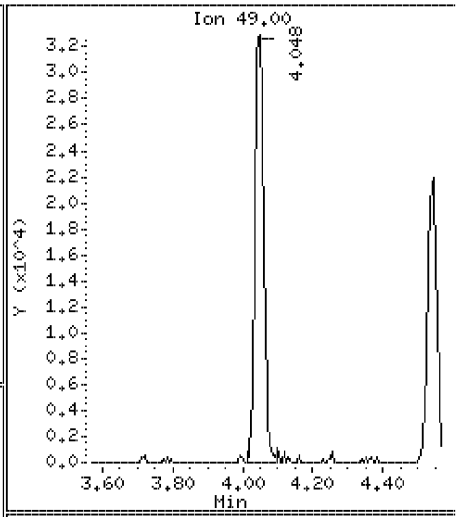
Concentration: 2.59 ppbv

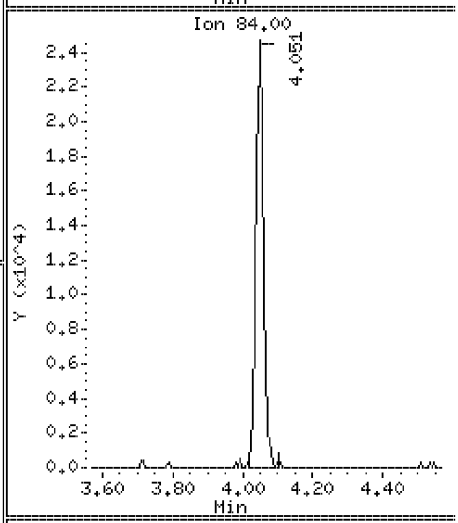


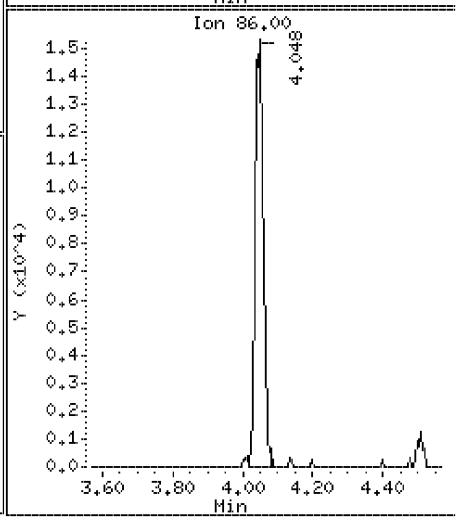












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

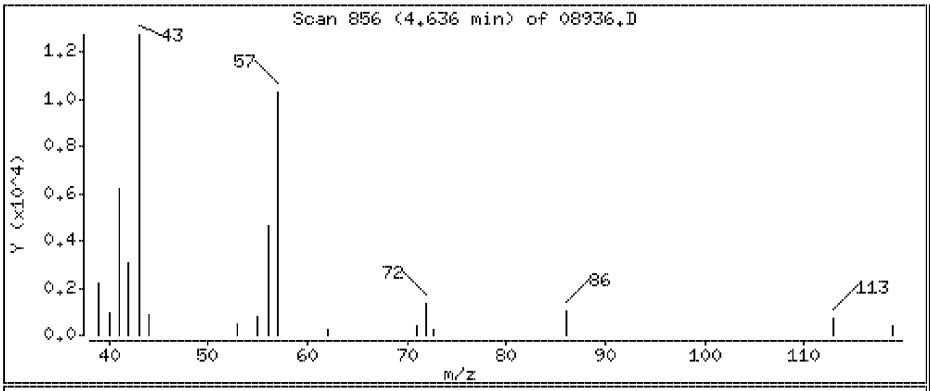
Operator: NCK

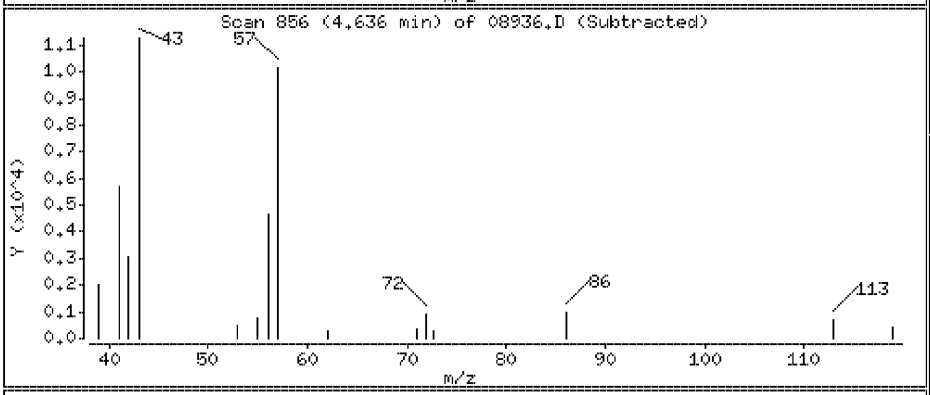
Column phase: J&W DB-5

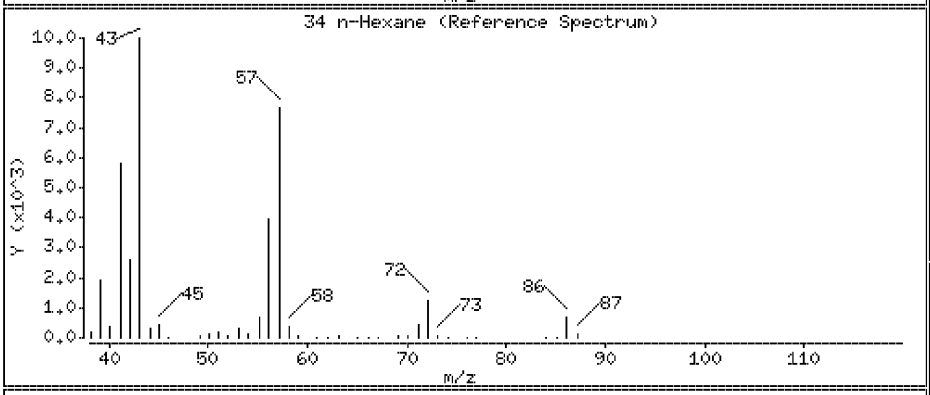
Column diameter: 0.32

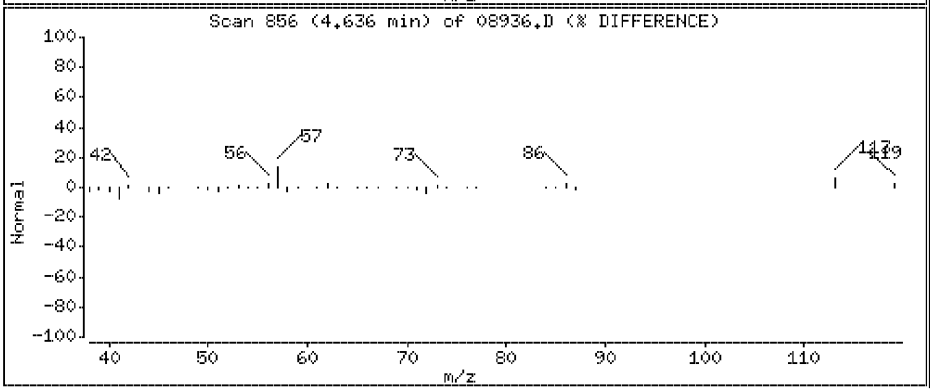
34 n-Hexane

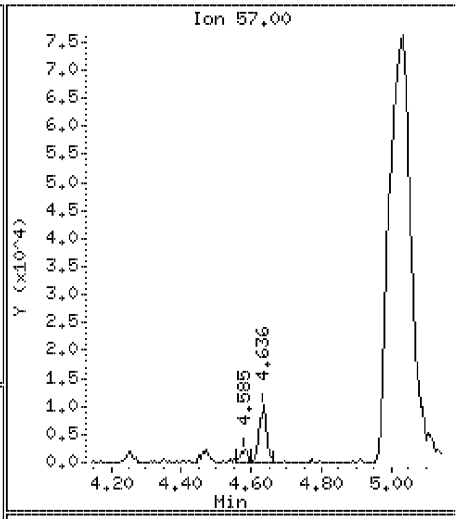
Concentration: 0.444 ppbv

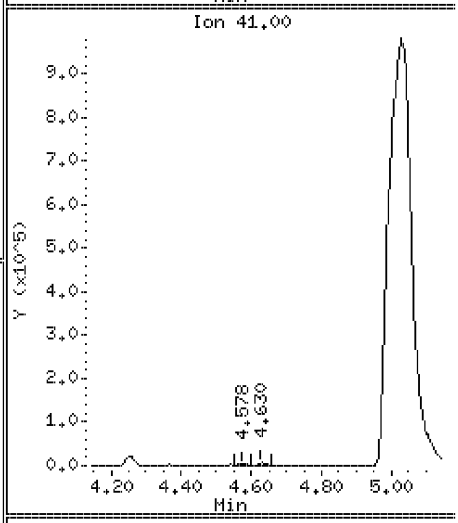


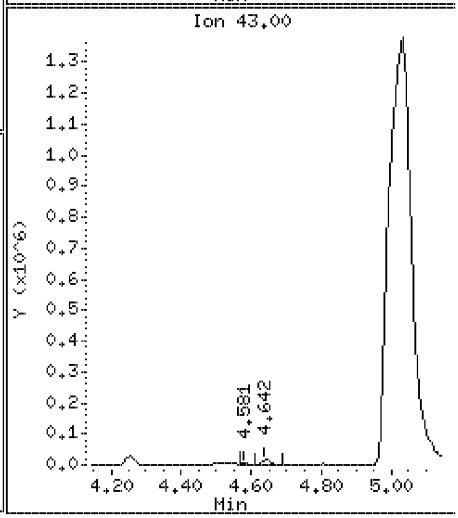












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

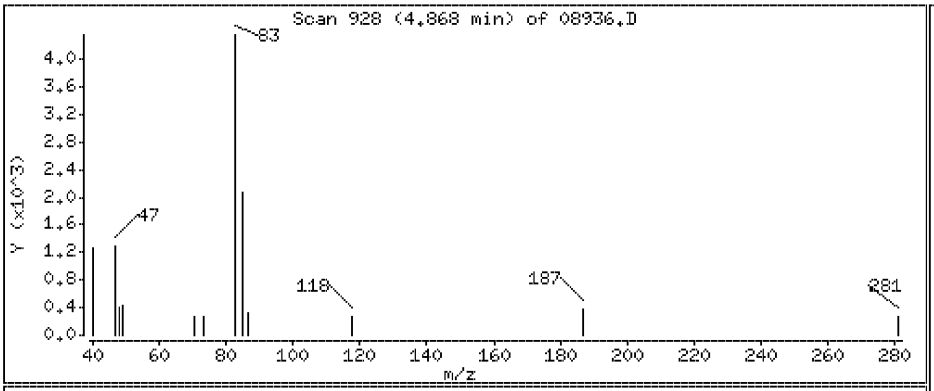
Operator: NCK

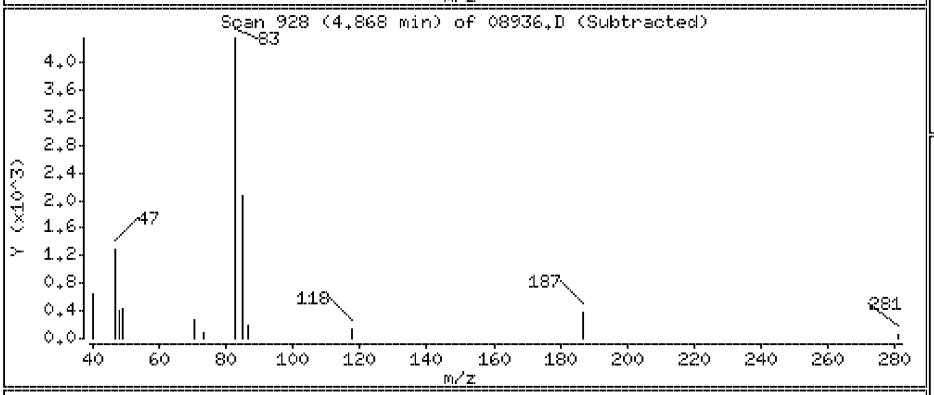
Column phase: J&W DB-5

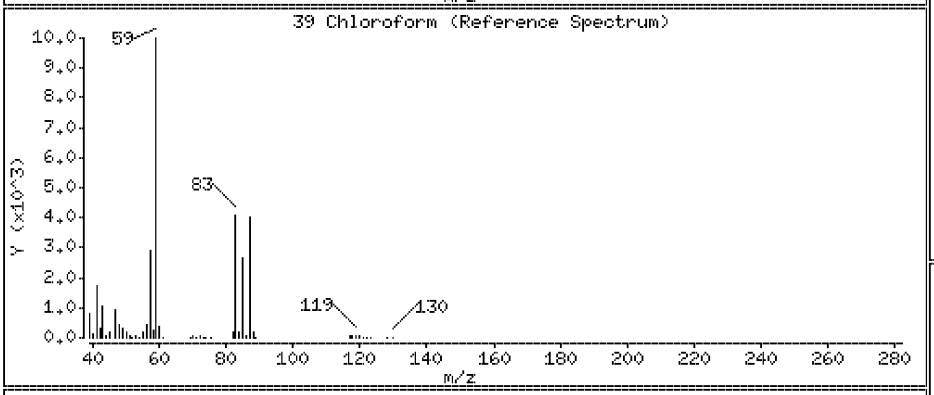
Column diameter: 0.32

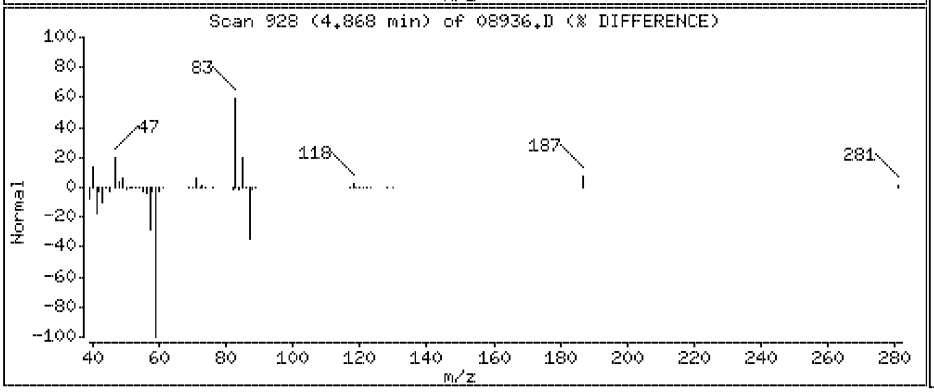
39 Chloroform

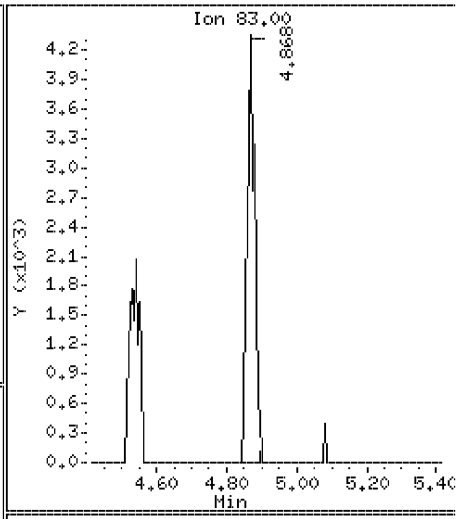
Concentration: 0.179 ppbv

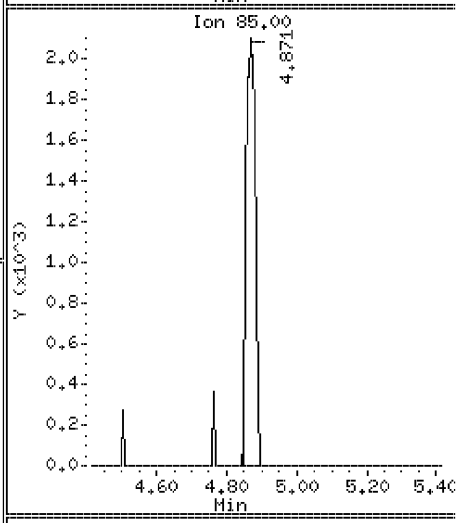


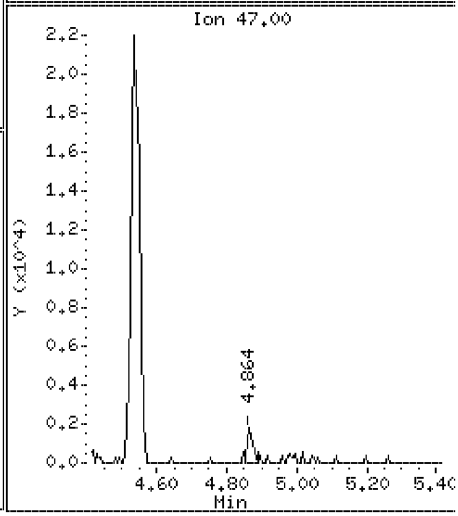












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

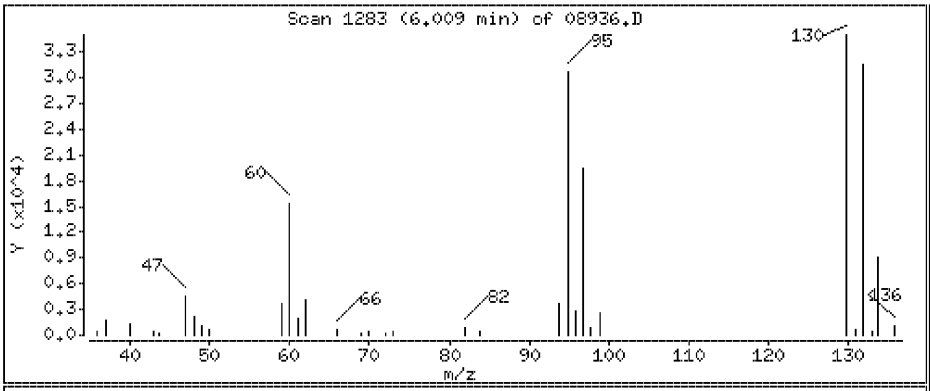
Operator: NCK

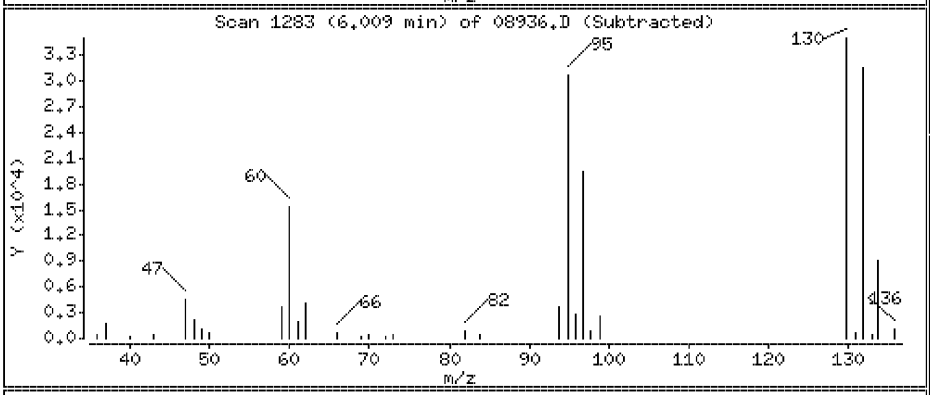
Column phase: J&W DB-5

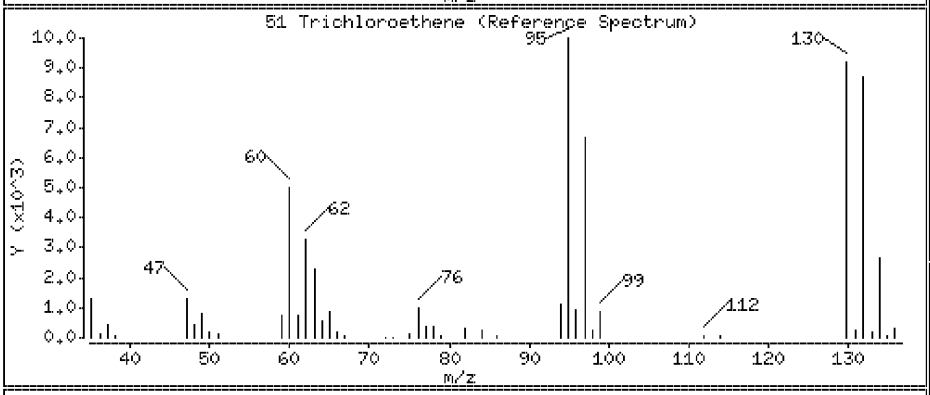
Column diameter: 0.32

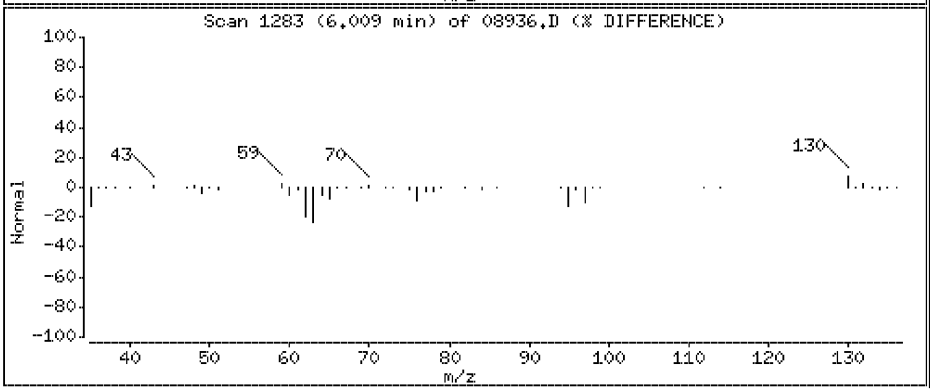
51 Trichloroethene

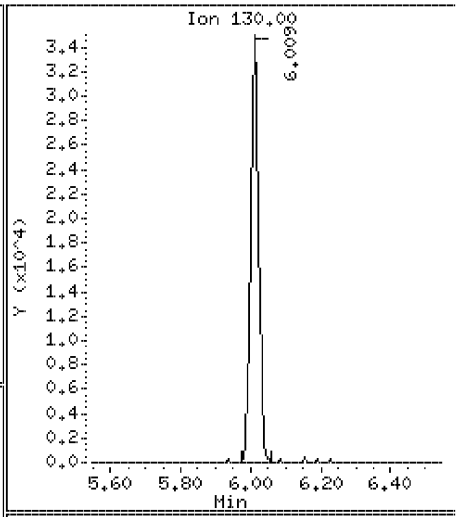
Concentration: 1.78 ppbv

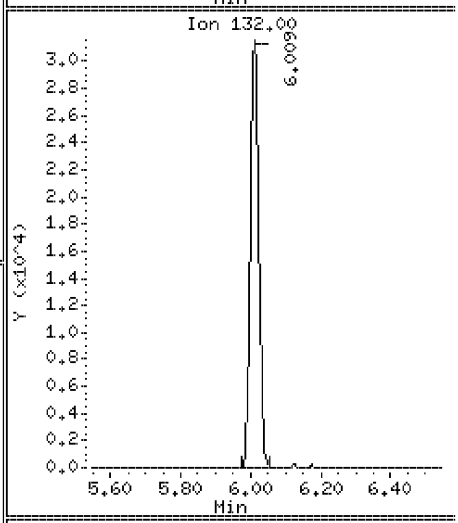


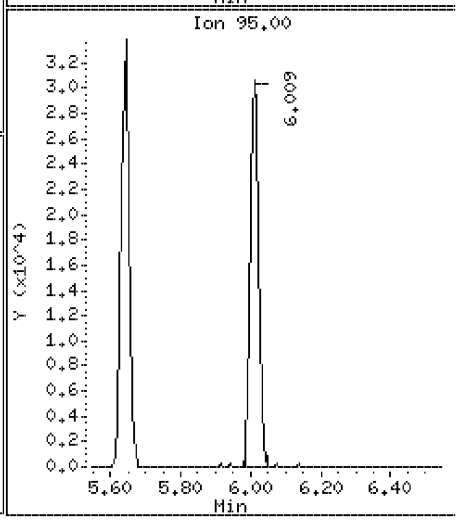












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

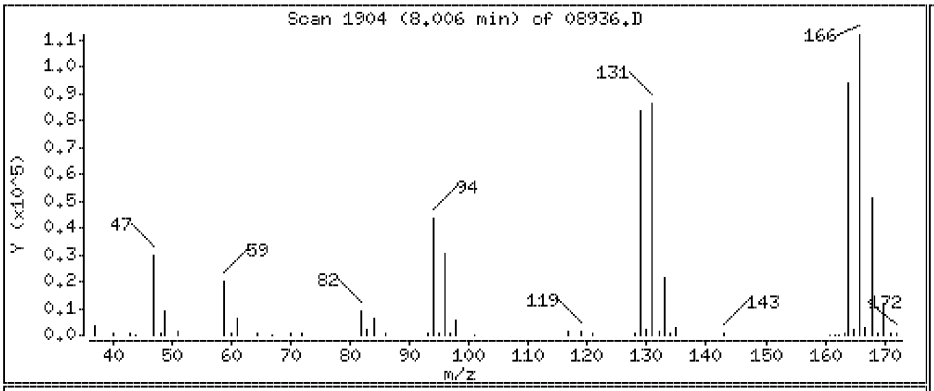
Operator: NCK

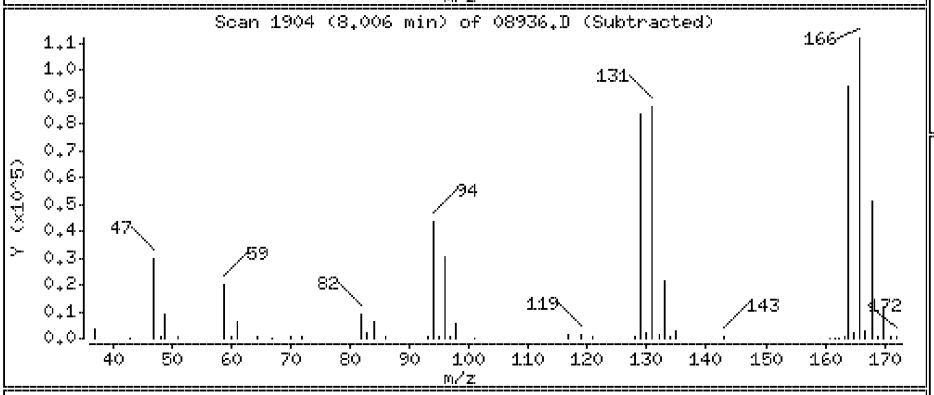
Column phase: J&W DB-5

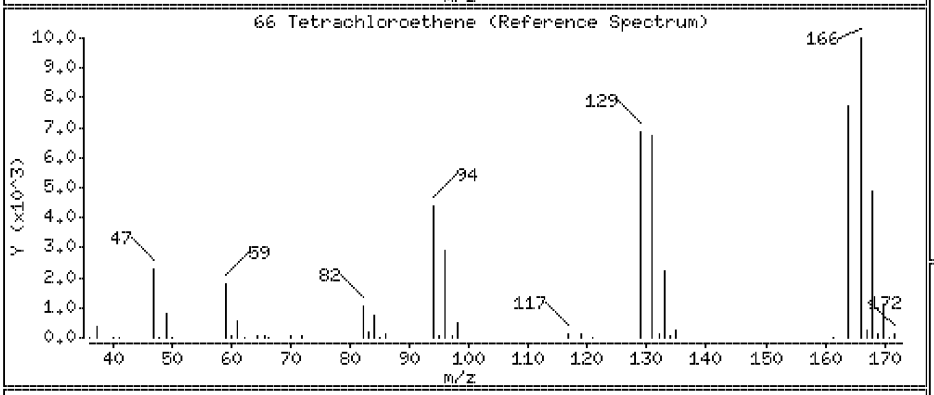
Column diameter: 0.32

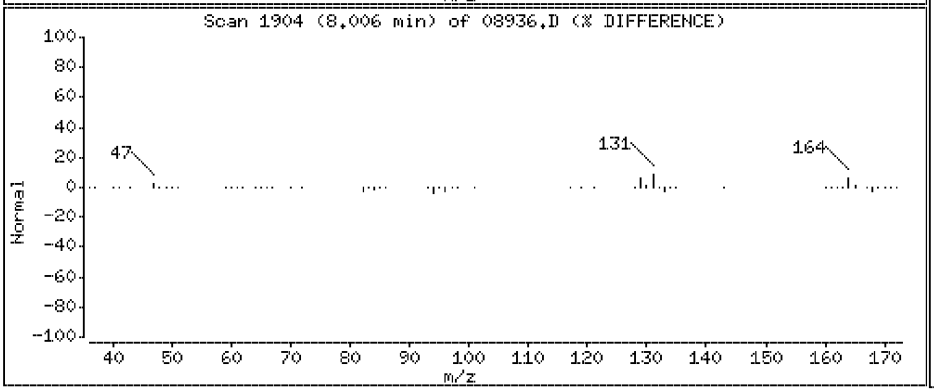
66 Tetrachloroethene

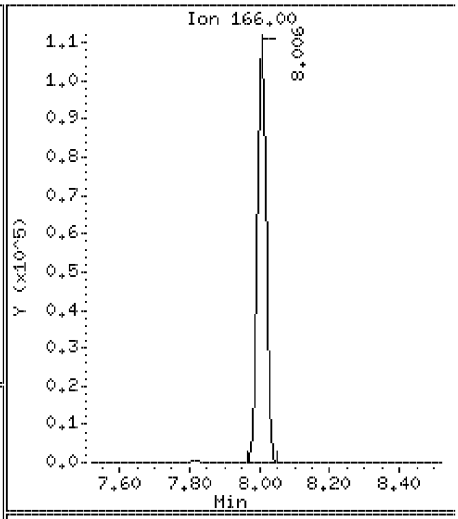
Concentration: 5.21 ppbv

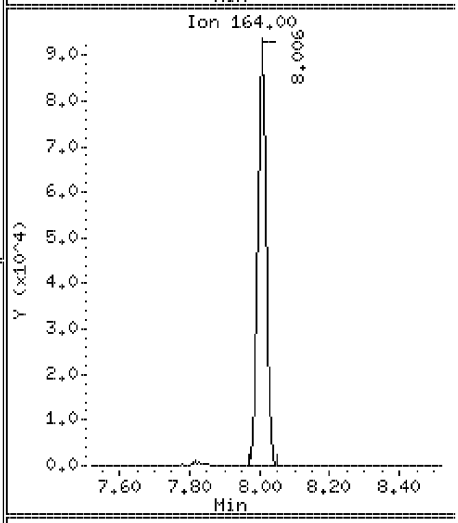


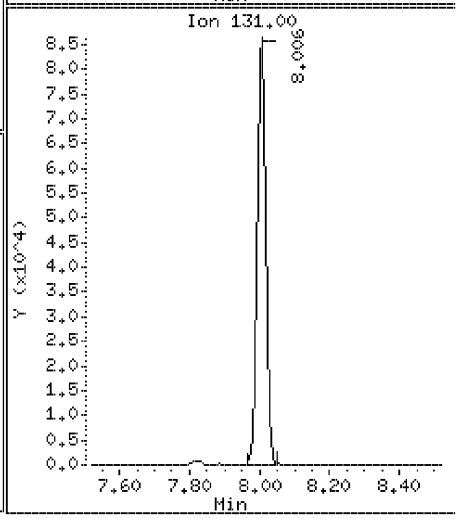












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08936.D

Date : 31-MAR-2017 05:31

Client ID:

Instrument: 10airB.i

Sample Info:

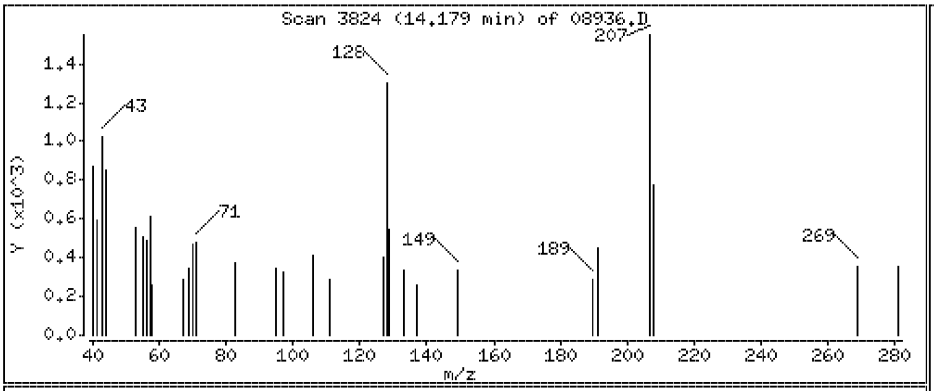
Operator: NCK

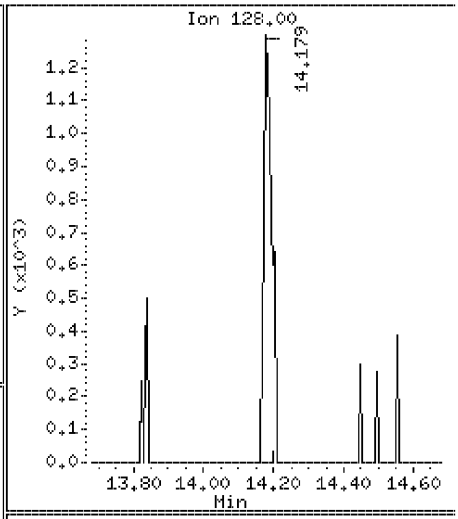
Column phase: J&W DB-5

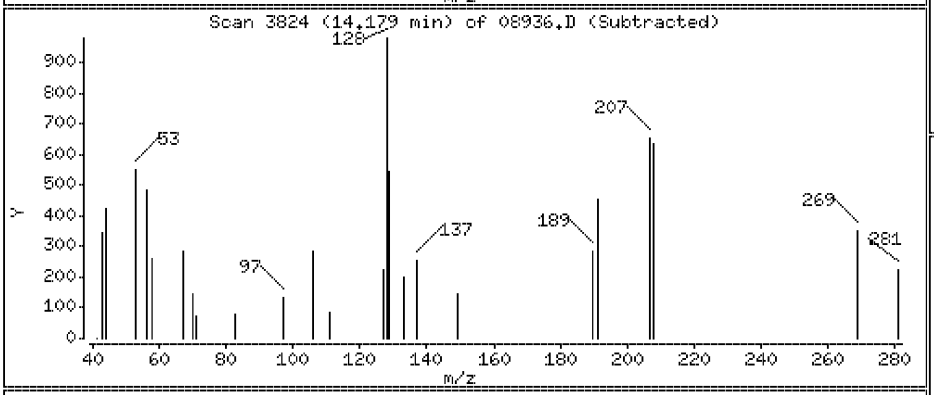
Column diameter: 0.32

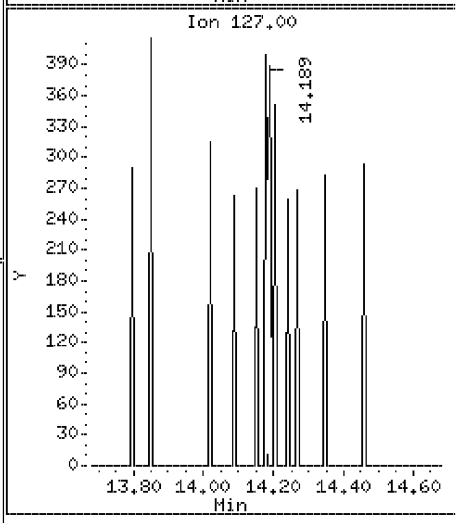
94 Naphthalene

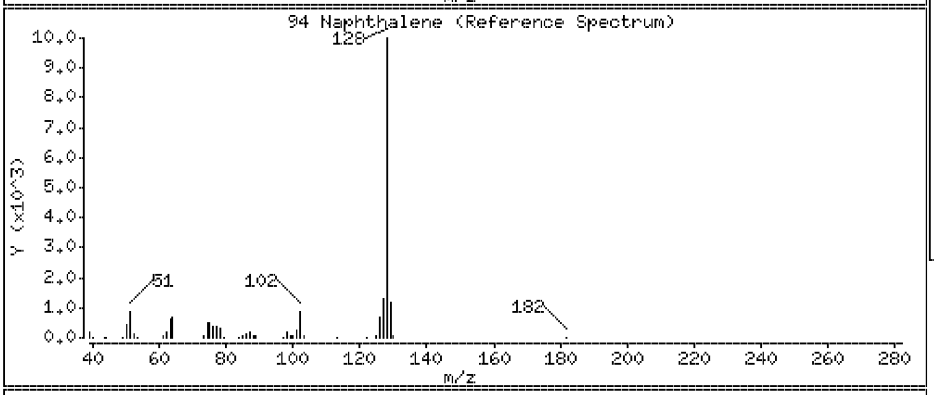
Concentration: 0.758 ppbv

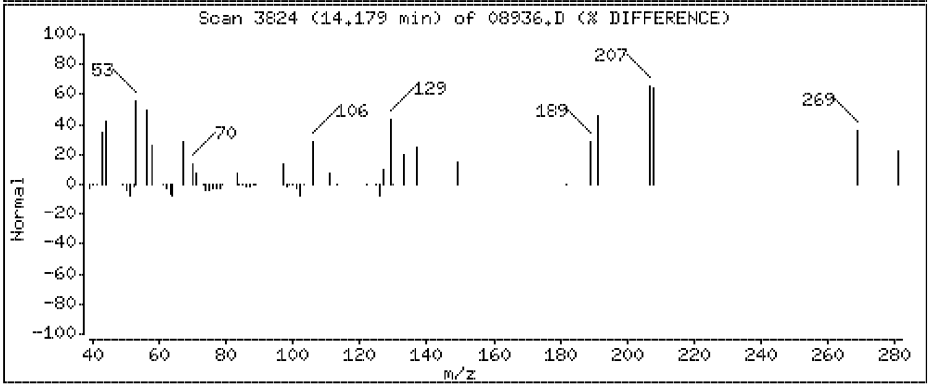






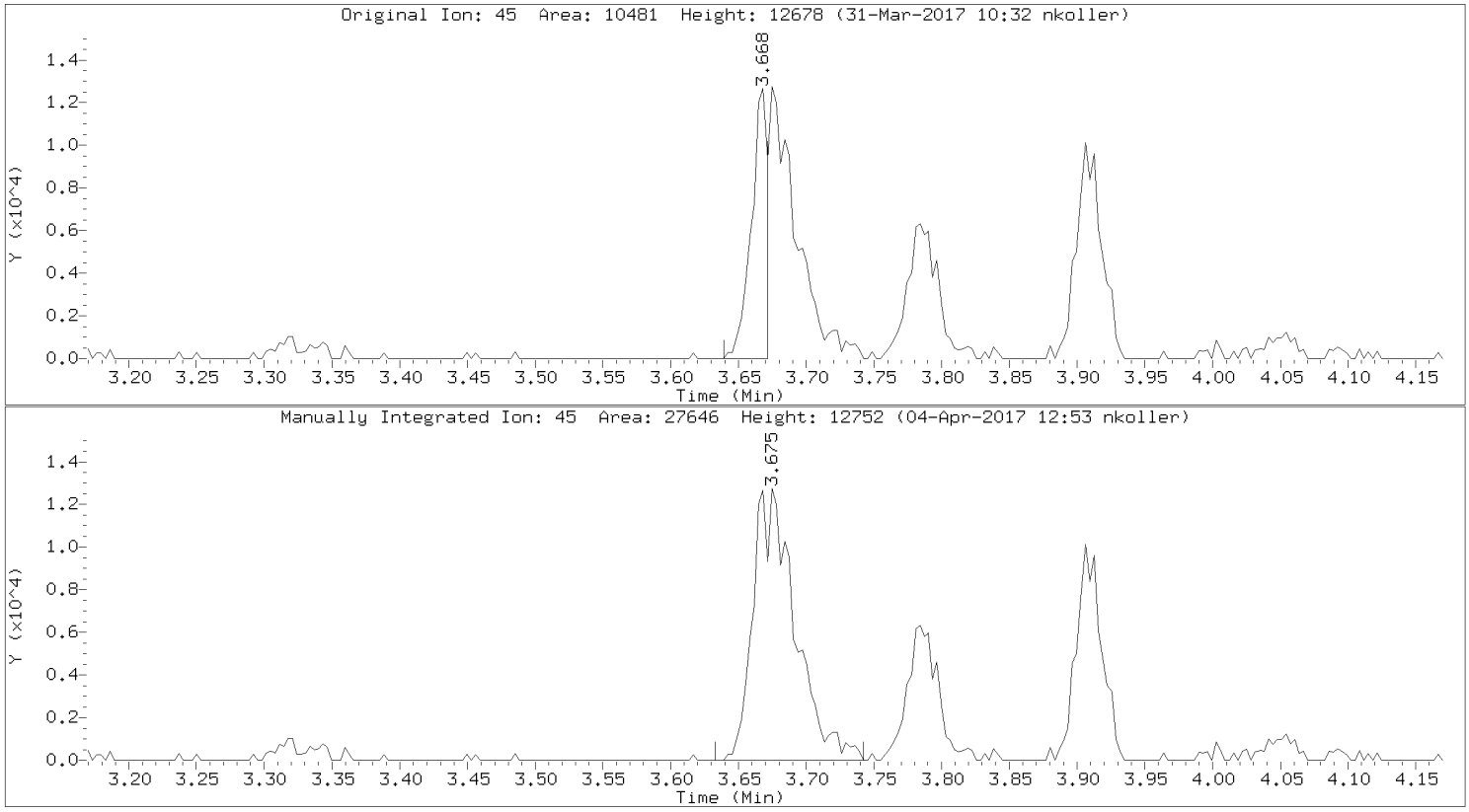






Data File: \\192.168.10.12\chem\10airB.i\033017.b/08936.D
Injection Date: 31-MAR-2017 05:31
Instrument: 10airB.i
Lab Sample ID: 10381335011

Compound: Ethanol
CAS Number: 64-17-5



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_20_20170307 **Lab ID: 10381335012** Collected: 03/07/17 13:51 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.2**	ug/m3	4.2	1.5	1.75		03/28/17 21:46	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/28/17 21:46	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/28/17 21:46	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/28/17 21:46	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/28/17 21:46	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/28/17 21:46	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/28/17 21:46	106-99-0	
2-Butanone (MEK)	**3.0J**	ug/m3	5.2	0.40	1.75		03/28/17 21:46	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/28/17 21:46	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/28/17 21:46	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/28/17 21:46	108-90-7	
Chlorodifluoromethane	**1.3J**	ug/m3	1.3	0.48	1.75		03/28/17 21:46	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/28/17 21:46	75-00-3	
Chloroform	**2.5**	ug/m3	0.87	0.33	1.75		03/28/17 21:46	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/28/17 21:46	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 21:46	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/28/17 21:46	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/28/17 21:46	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/28/17 21:46	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/28/17 21:46	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/28/17 21:46	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/28/17 21:46	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/28/17 21:46	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.8	0.84	1.75		03/28/17 21:46	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/28/17 21:46	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/28/17 21:46	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 21:46	75-35-4	
cis-1,2-Dichloroethene	**8.9**	ug/m3	1.4	0.43	1.75		03/28/17 21:46	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/28/17 21:46	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/28/17 21:46	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/28/17 21:46	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	4.0	0.46	1.75		03/28/17 21:46	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/28/17 21:46	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 21:46	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/28/17 21:46	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/28/17 21:46	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/28/17 21:46	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/28/17 21:46	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/28/17 21:46	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/28/17 21:46	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/28/17 21:46	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/28/17 21:46	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 21:46	108-87-2	
Methylene Chloride	**8.2**	ug/m3	6.2	0.95	1.75		03/28/17 21:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/28/17 21:46	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/28/17 21:46	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D
Report Date: 03-Apr-2017 15:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08725.D
Lab Smp Id: 10381335012
Inj Date : 28-MAR-2017 21:46
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 25
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.028	2.996	(0.541)	2505	0.19870	0.348(QM)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.028	(0.546)	38048	0.28051	0.491	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.539	(0.633)	56130	3.43546	6.01	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.581	3.581	(0.640)	5853	0.12588	0.220	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.652	3.658	(0.652)	14213	0.14970	0.262	
17	Acrolein	56	3.671	3.674	(0.656)	7911	0.52982	0.927	
18	Acetone	43	3.716	3.713	(0.664)	231986	3.60354	6.31(Q)	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.928	3.938	(0.702)	12569	0.16485	0.288	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D
Report Date: 03-Apr-2017 15:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.989	3.999	(0.713)	65153	1.32018	2.31	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.430	4.385	(0.791)	40996	0.37859	0.663(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.478	(0.800)	912178	9.86827	9.87	
	33 Methyl Ethyl Ketone	72	4.555	4.549	(0.814)	11271	0.57127	1.000(Q)	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.719	4.712	(0.843)	9906	0.10584	0.185(Q)	
	37 cis-1,2-Dichloroethene	96	4.700	4.722	(0.840)	51728	1.26559	2.21(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.838	(0.860)	23696	0.29226	0.511	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	2464097	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.970	5.986	(1.067)	361300	4.84386	8.48	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.073	(1.263)	2018597	9.71716	9.72	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.143	7.150	(1.276)	18162	0.10501	0.184	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	1008229	10.5635	18.5	
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1457346	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D
Report Date: 03-Apr-2017 15:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	638346	9.22694	9.23	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D
Report Date: 03-Apr-2017 15:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08725.D
Lab Smp Id: 10381335012
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

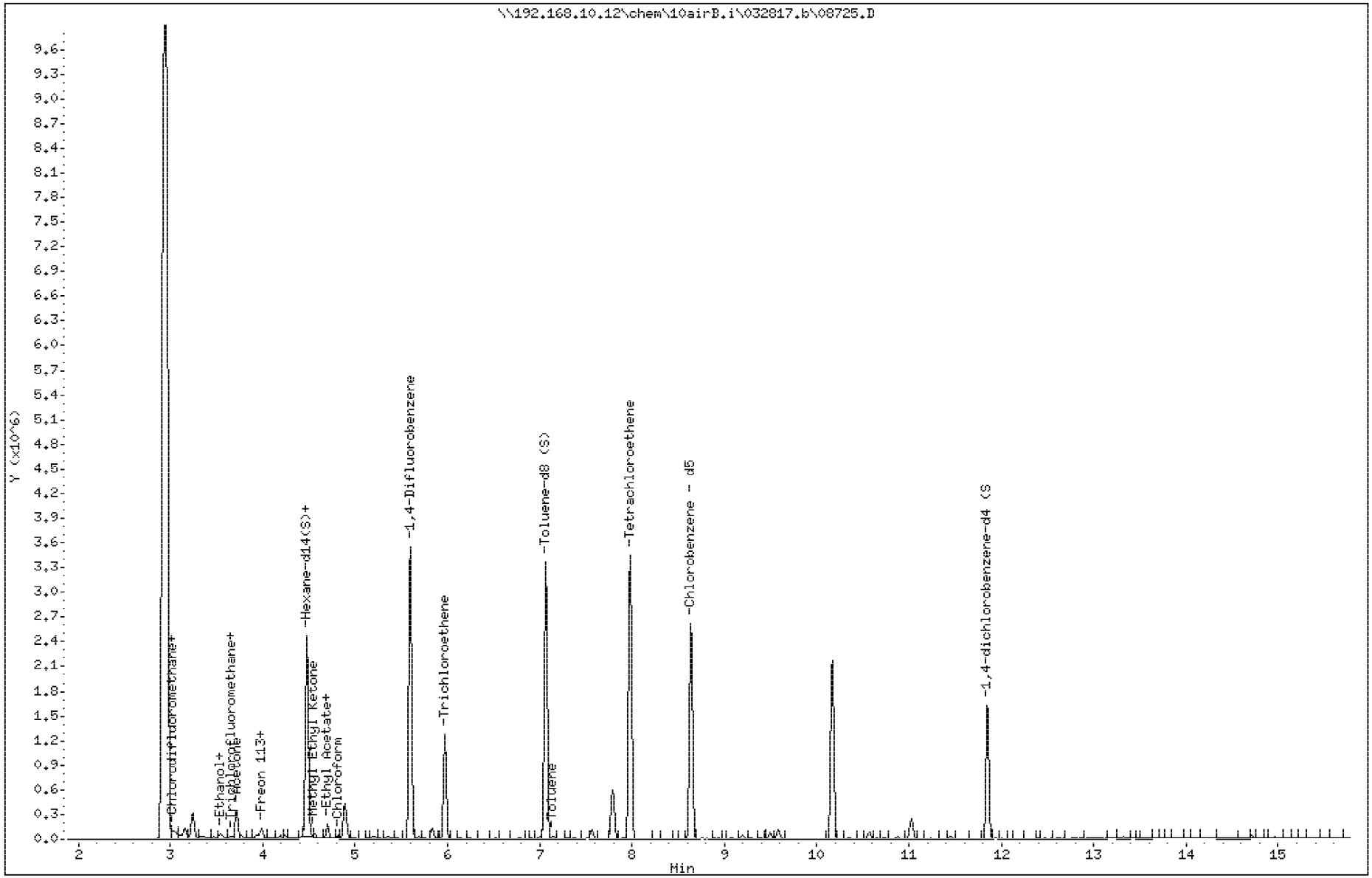
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2464097	-12.98
67 Chlorobenzene - d	1804482	1082689	2526275	1457346	-19.24

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D
Date : 28-MAR-2017 21:46
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

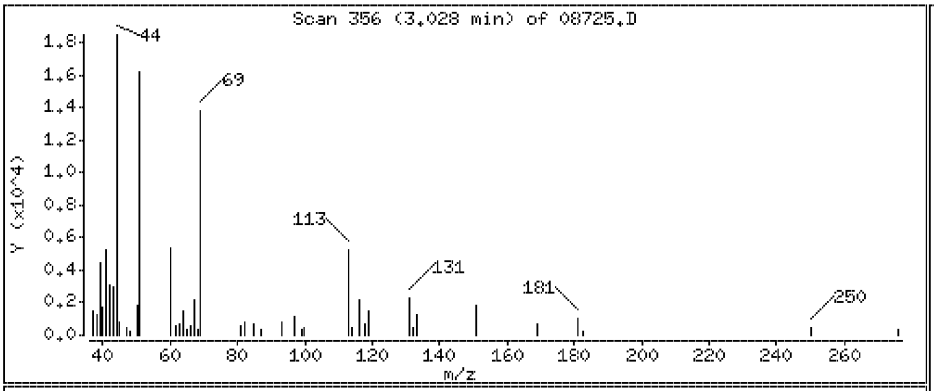
Operator: NCK

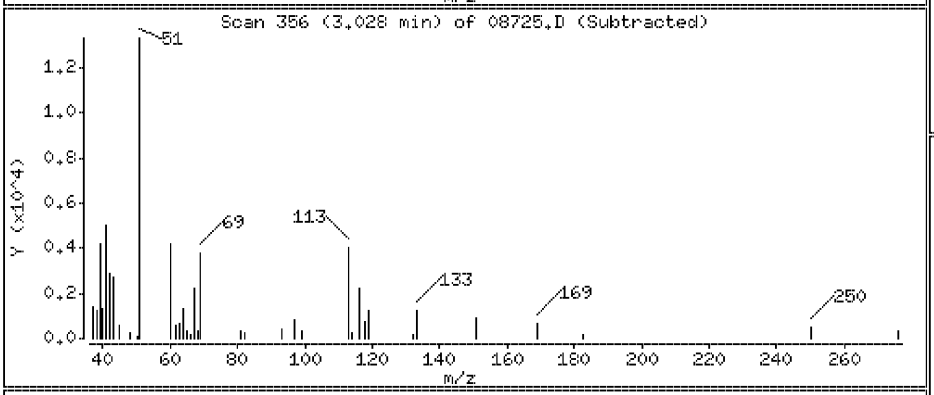
Column phase: J&W DB-5

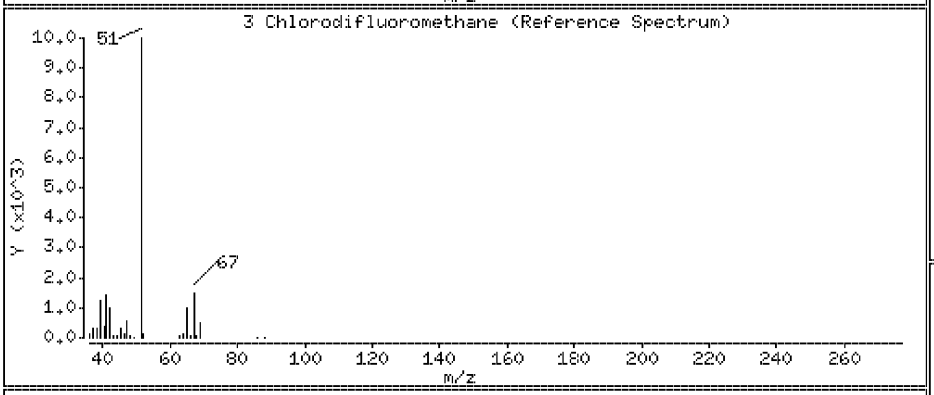
Column diameter: 0.32

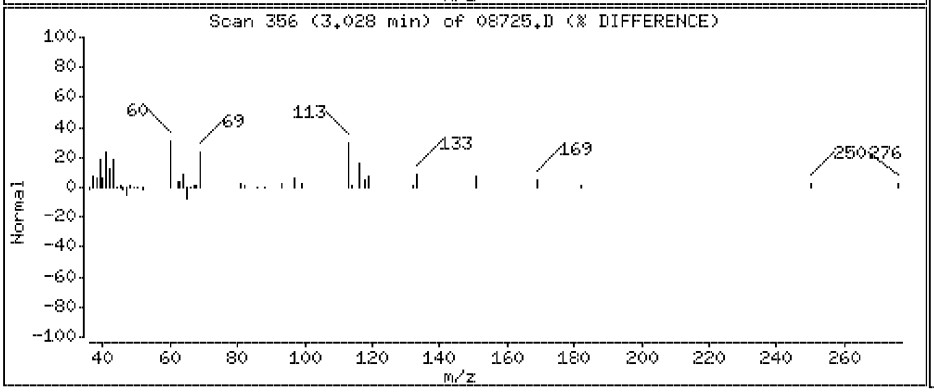
3 Chlorodifluoromethane

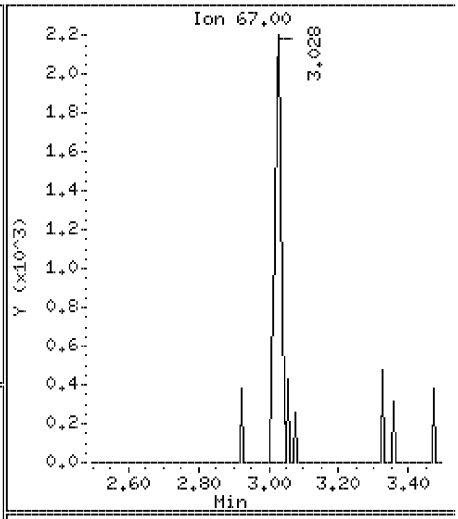
Concentration: 0.348 ppbv

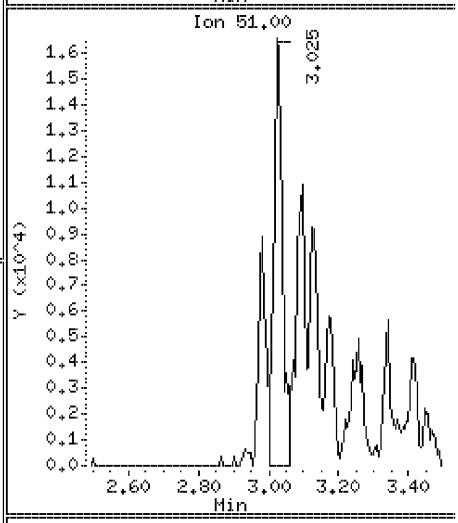


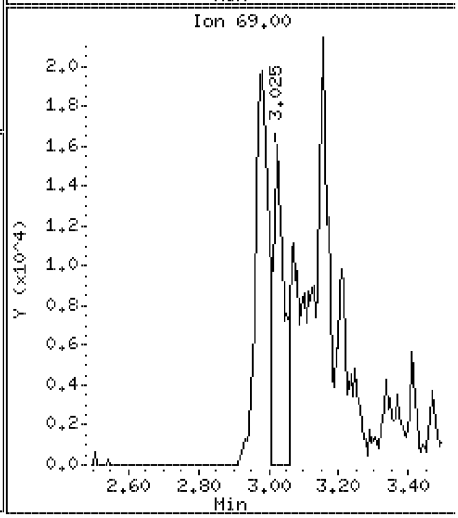












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

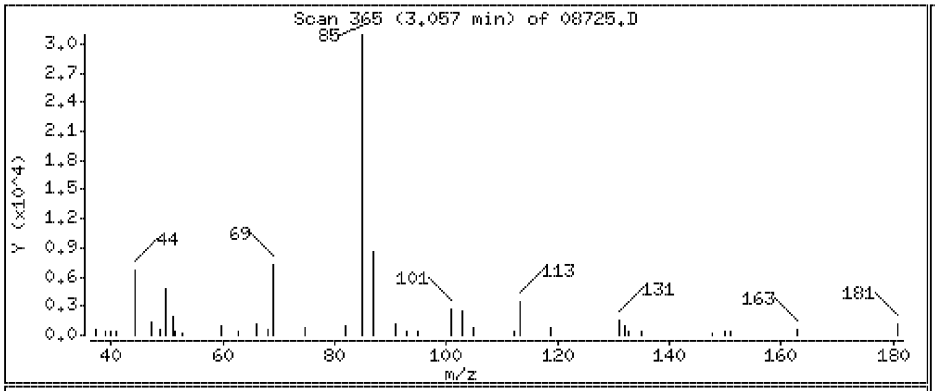
Operator: NCK

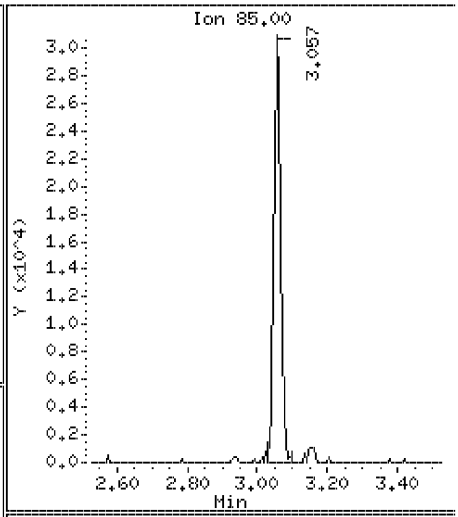
Column phase: J&W DB-5

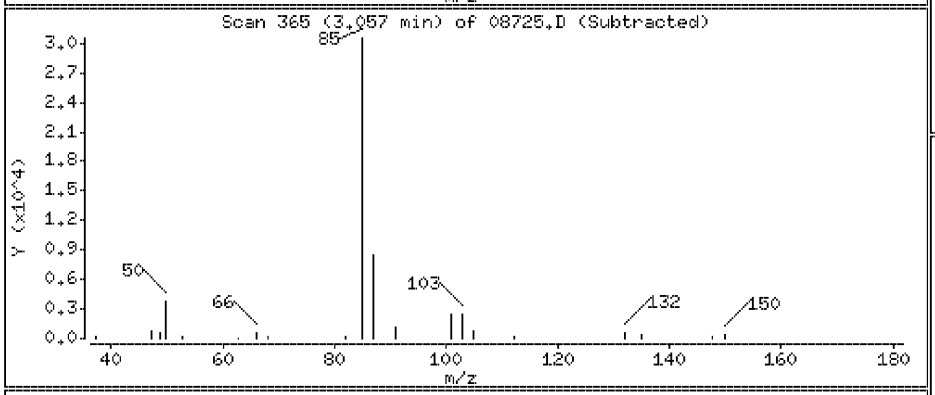
Column diameter: 0.32

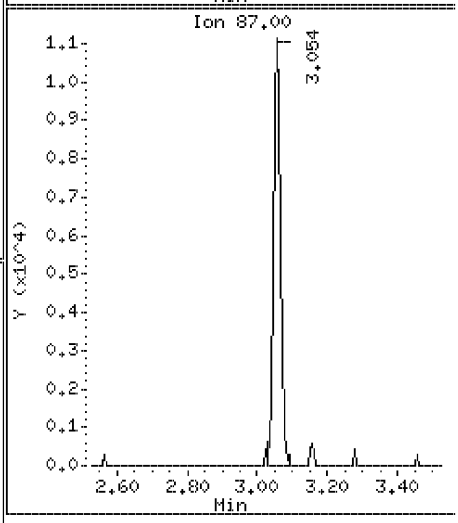
5 Dichlorodifluoromethane

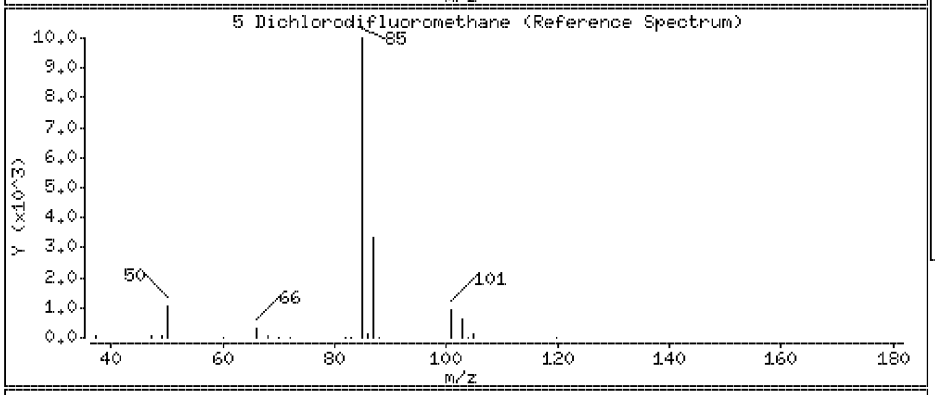
Concentration: 0.491 ppbv

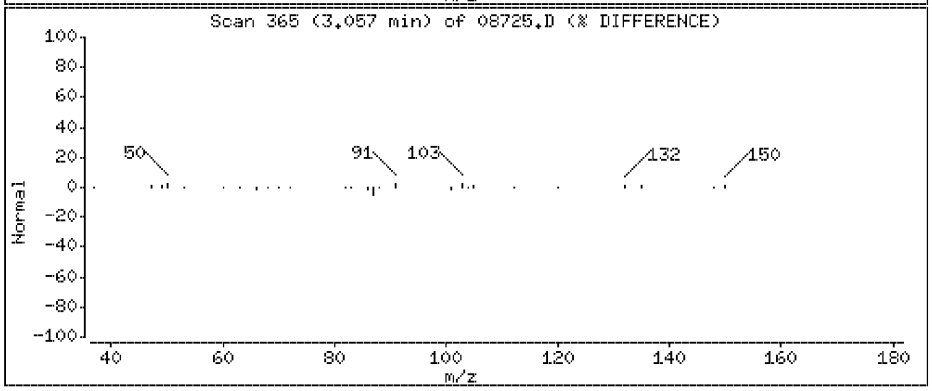












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

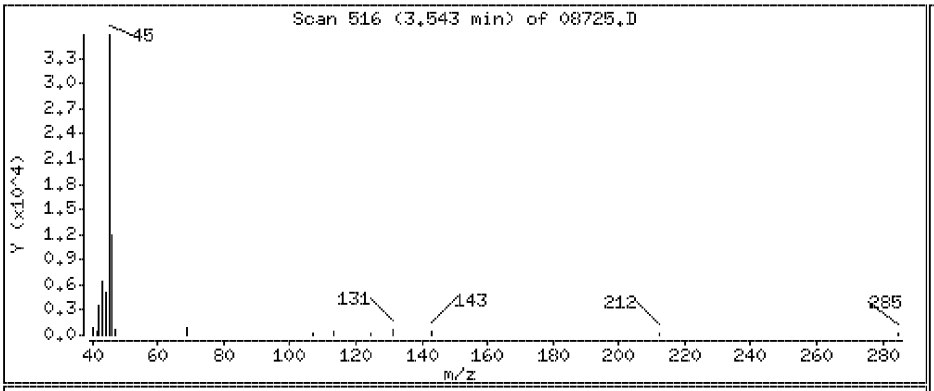
Operator: NCK

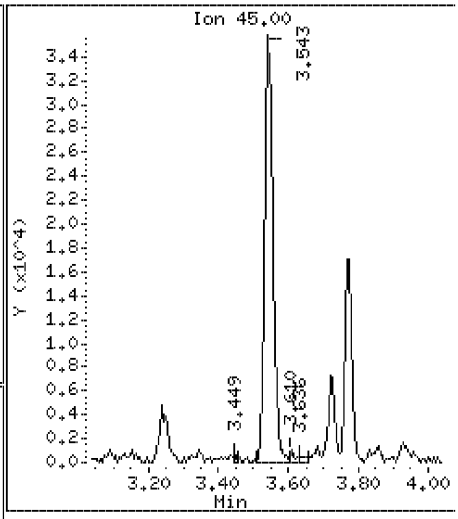
Column phase: J&W DB-5

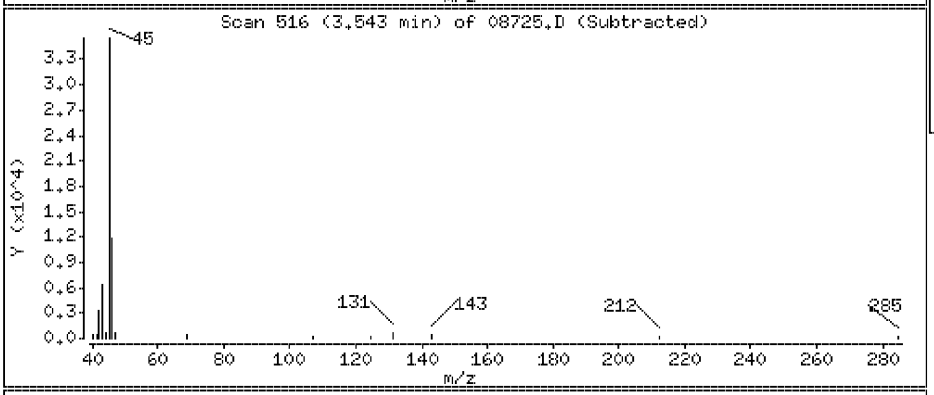
Column diameter: 0.32

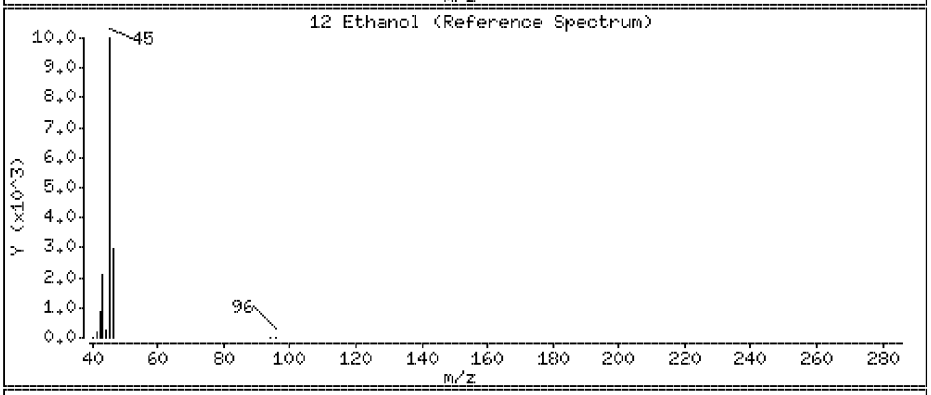
12 Ethanol

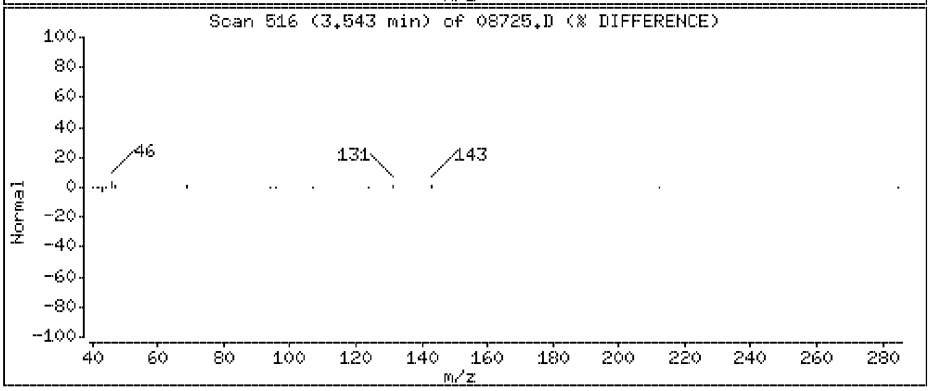
Concentration: 6.01 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

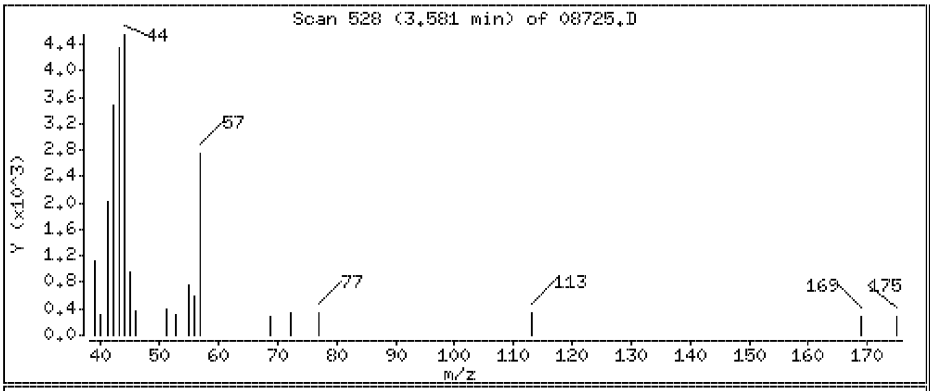
Operator: NCK

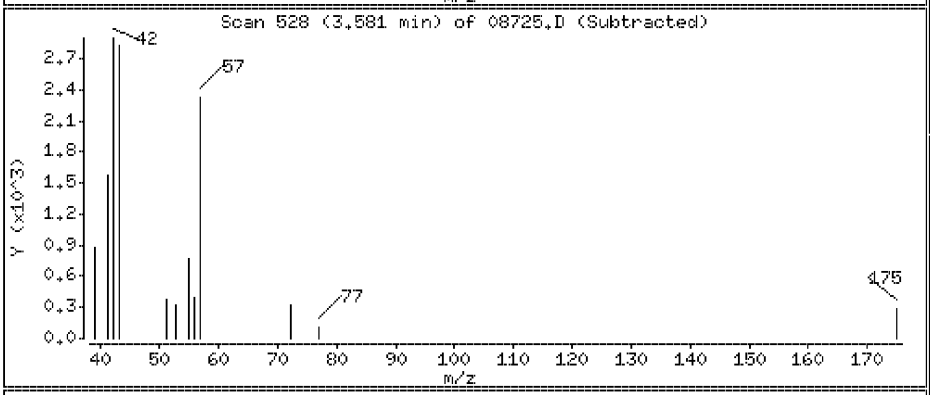
Column phase: J&W DB-5

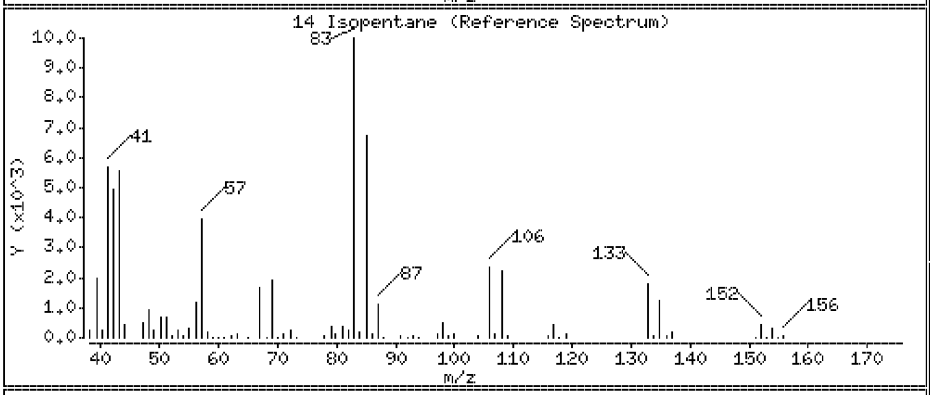
Column diameter: 0.32

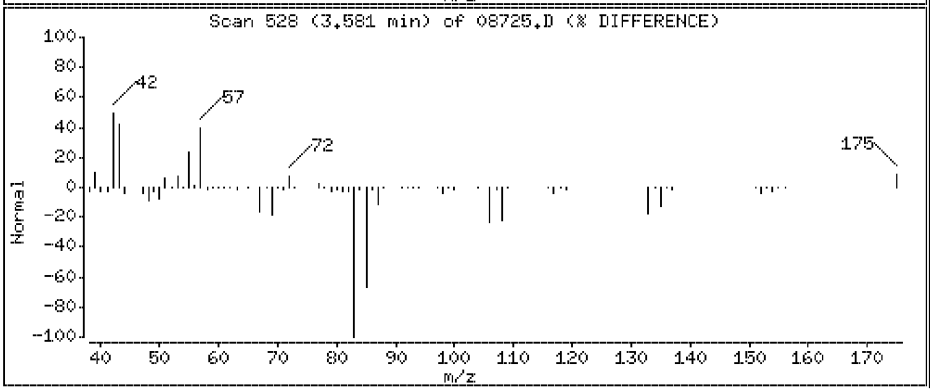
14 Isopentane

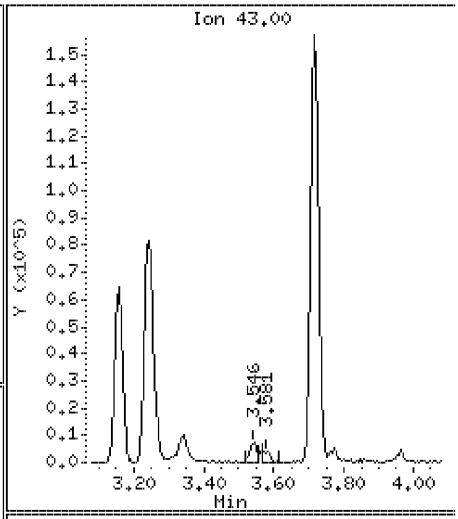
Concentration: 0.220 ppbv

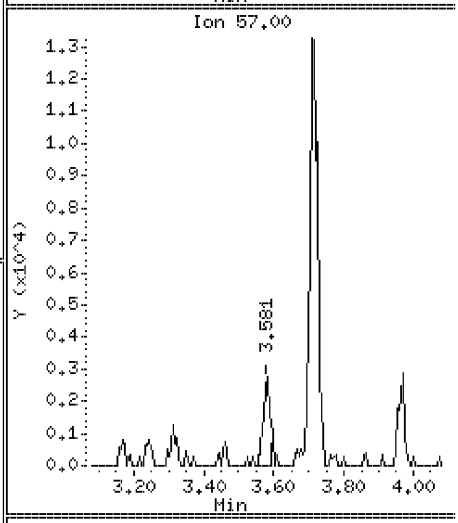


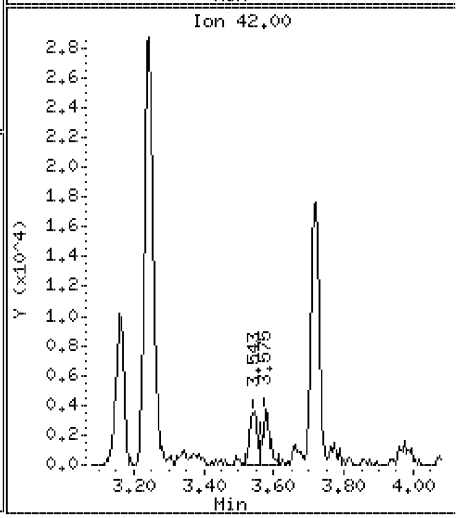












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

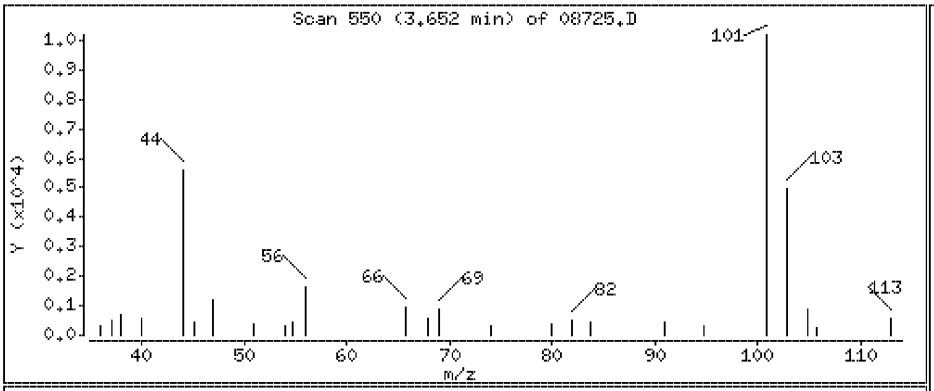
Operator: NCK

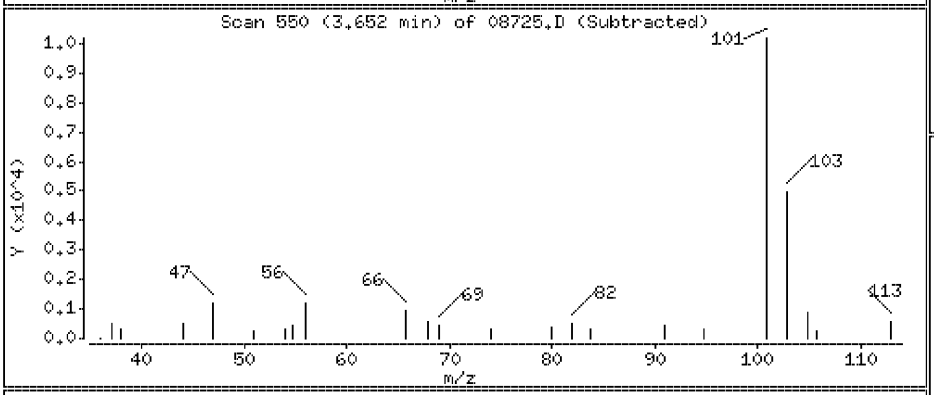
Column phase: J&W DB-5

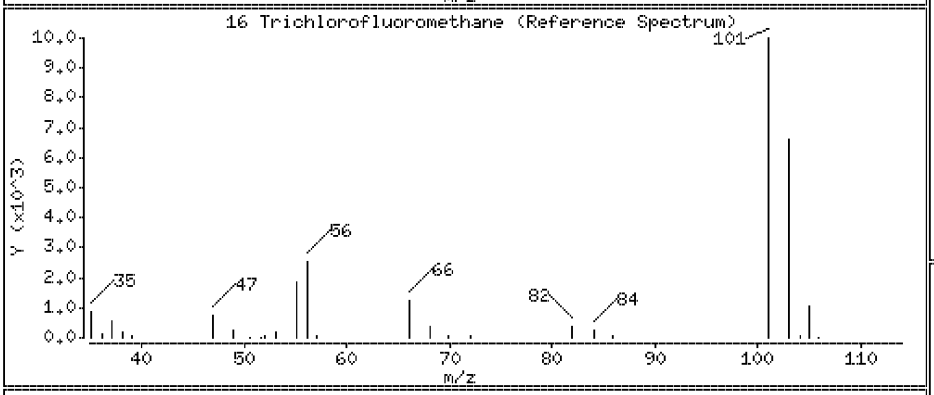
Column diameter: 0.32

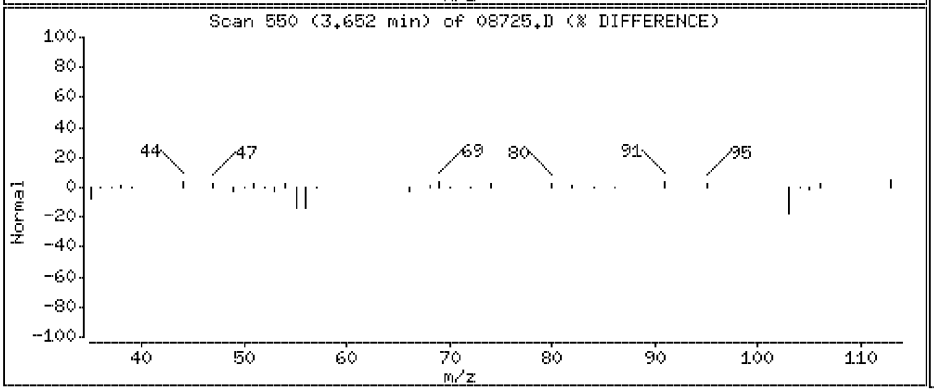
16 Trichlorofluoromethane

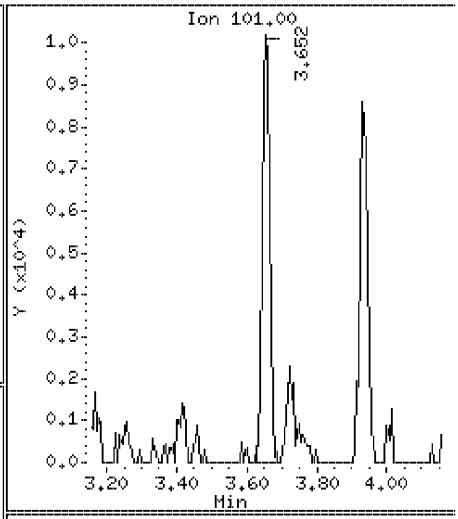
Concentration: 0.262 ppbv

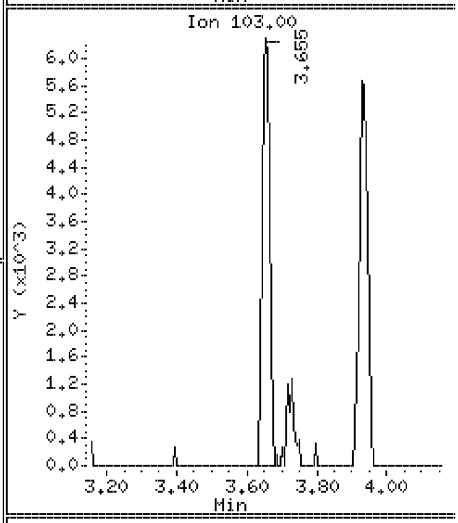


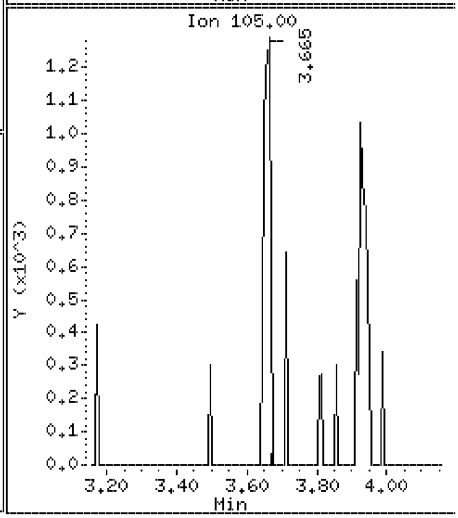












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

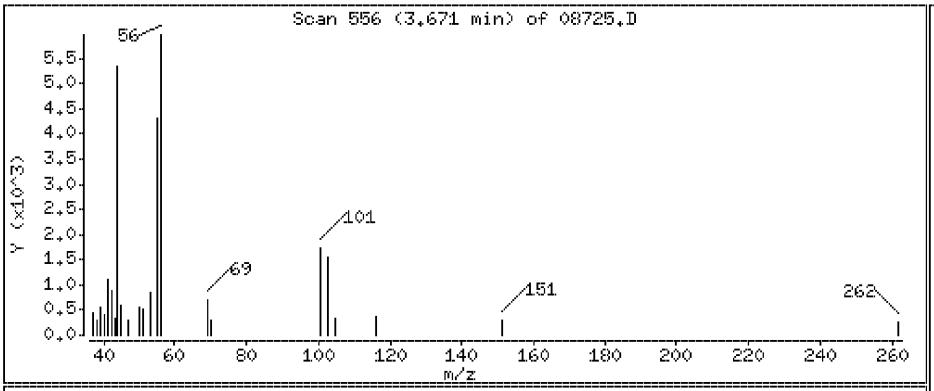
Operator: NCK

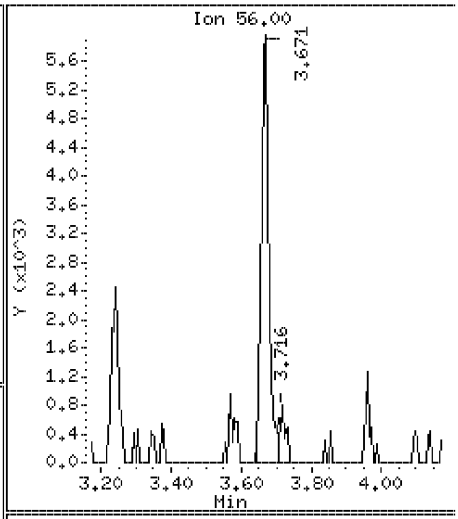
Column phase: J&W DB-5

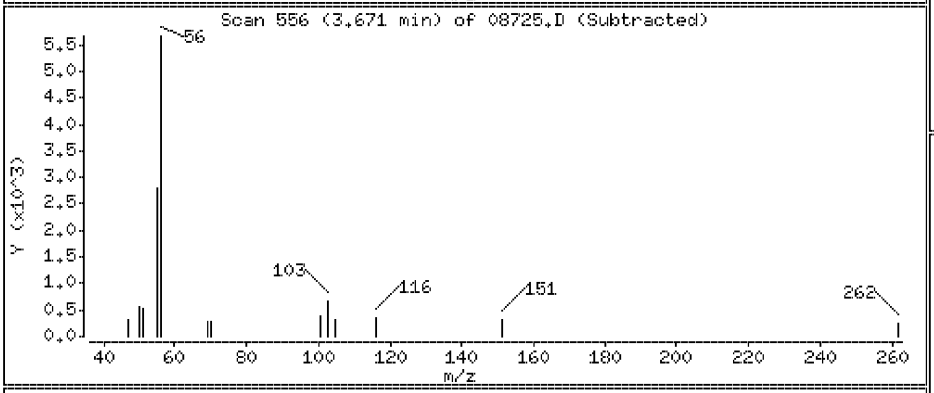
Column diameter: 0.32

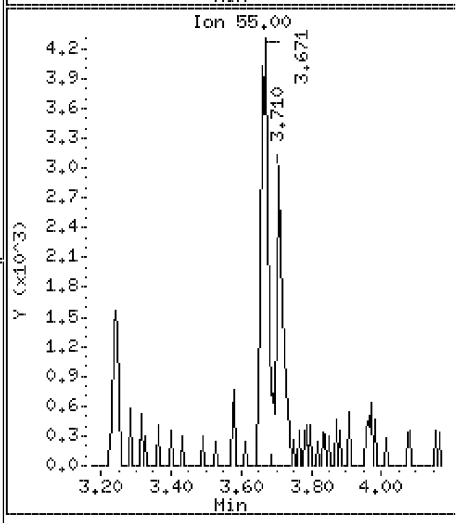
17 Acrolein

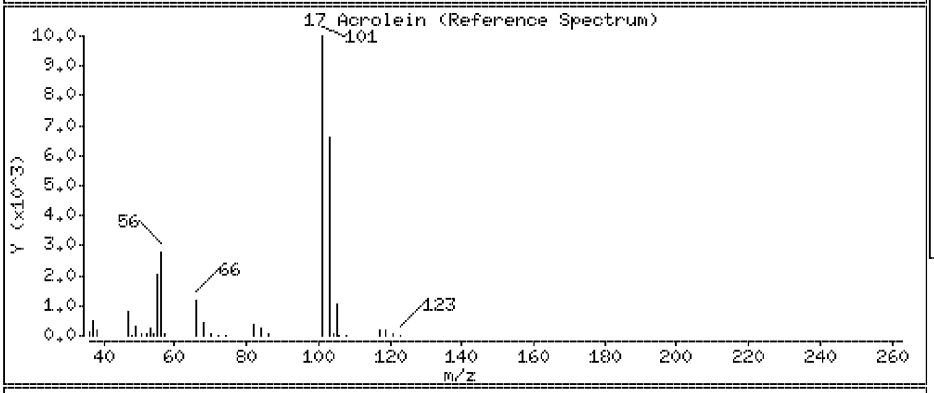
Concentration: 0.927 ppbv

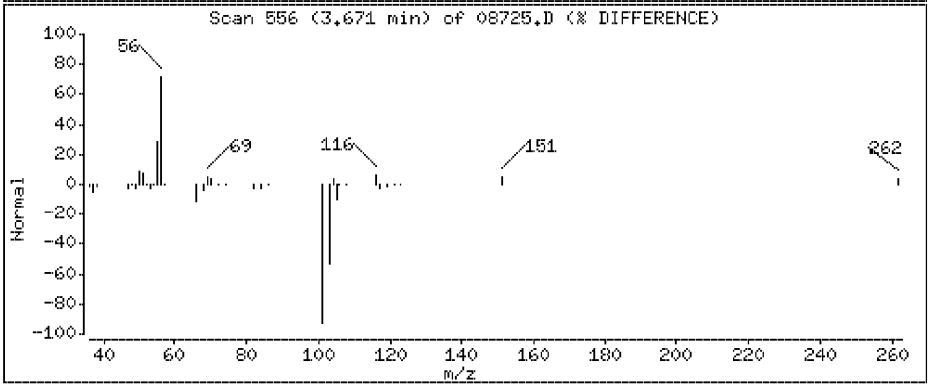












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

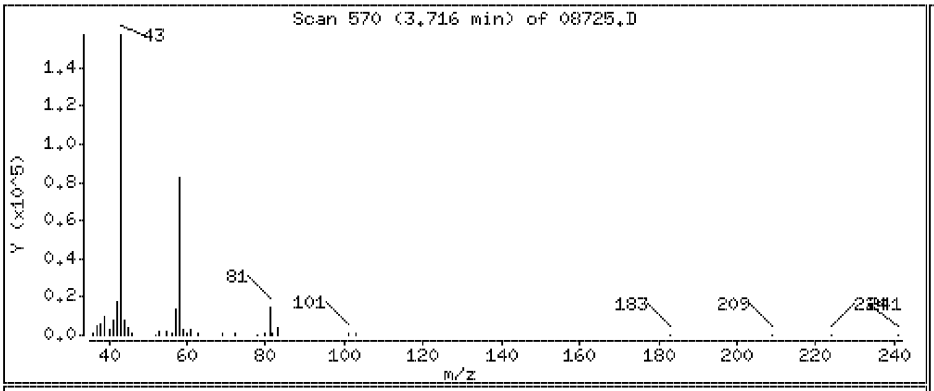
Operator: NCK

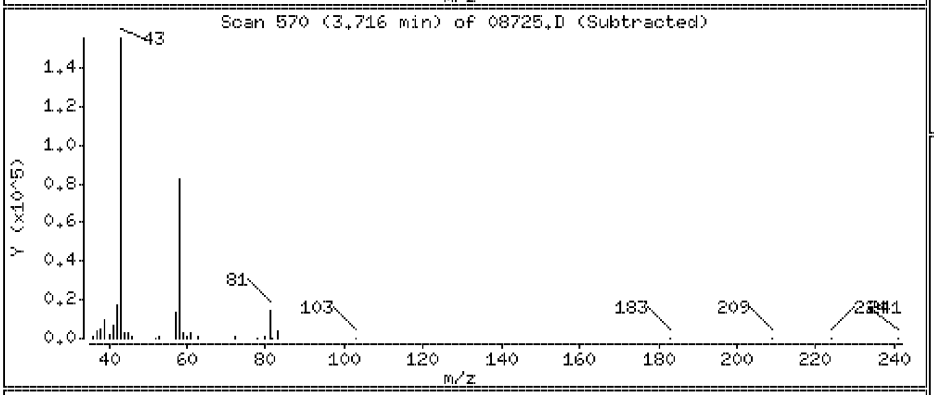
Column phase: J&W DB-5

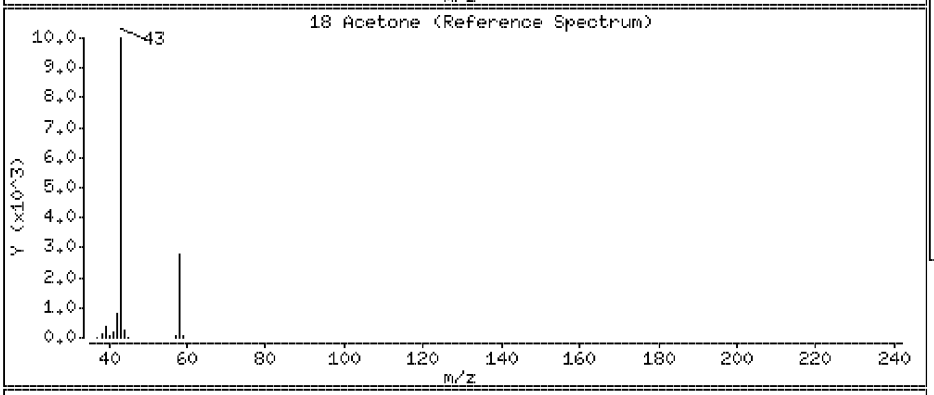
Column diameter: 0.32

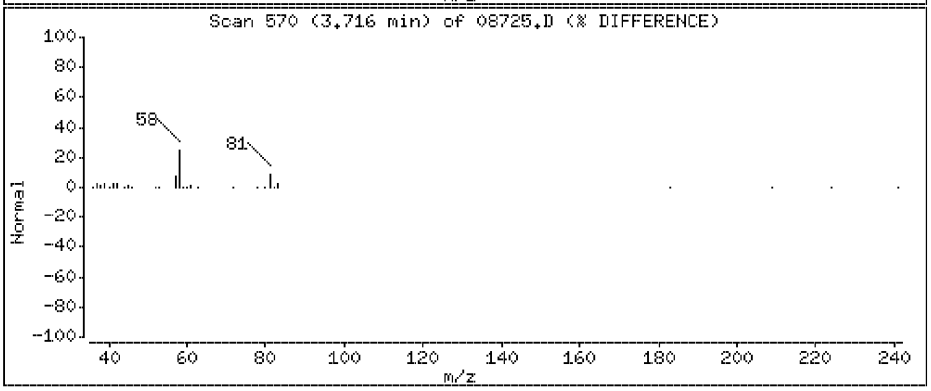
18 Acetone

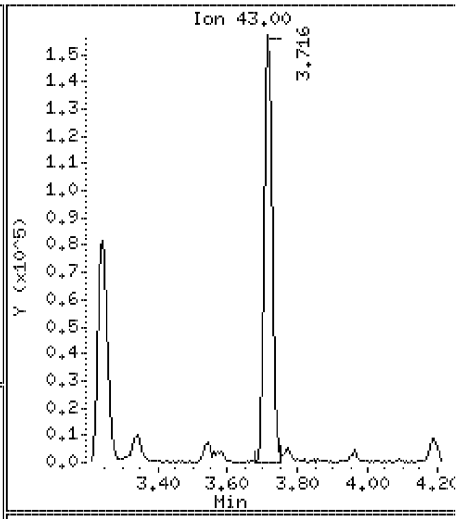
Concentration: 6.31 ppbv

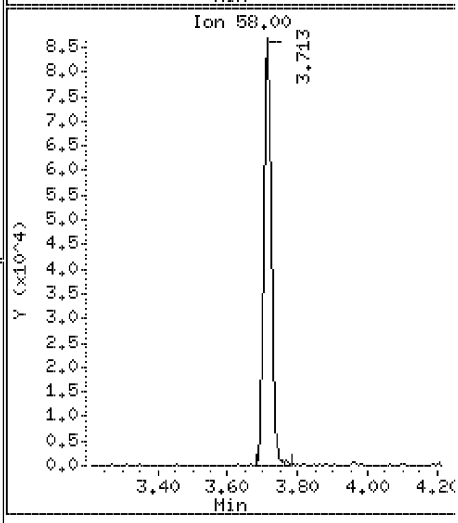












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

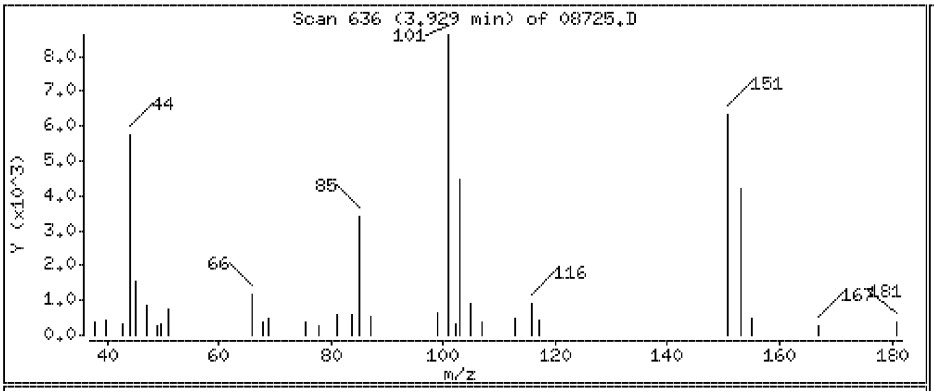
Operator: NCK

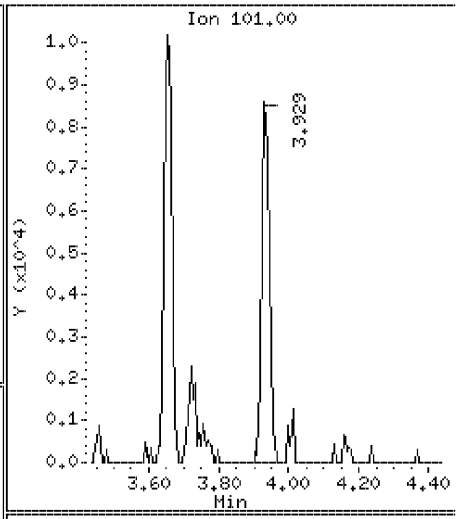
Column phase: J&W DB-5

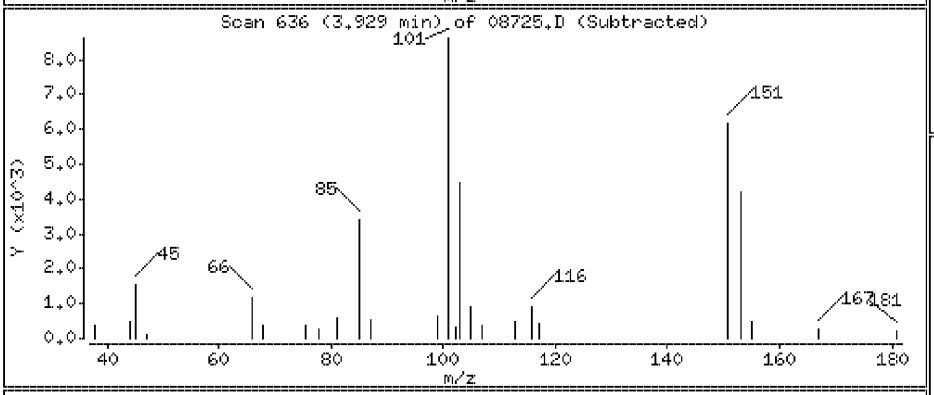
Column diameter: 0.32

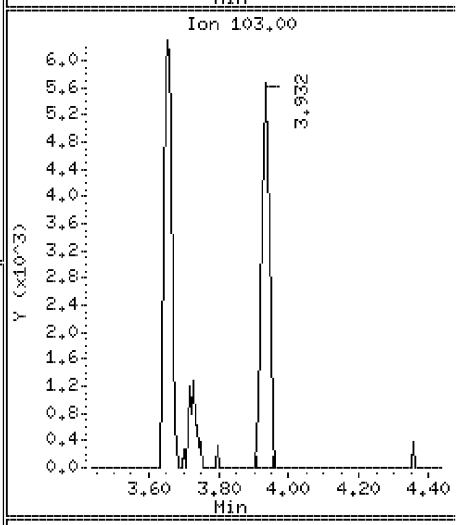
22 Freon 113

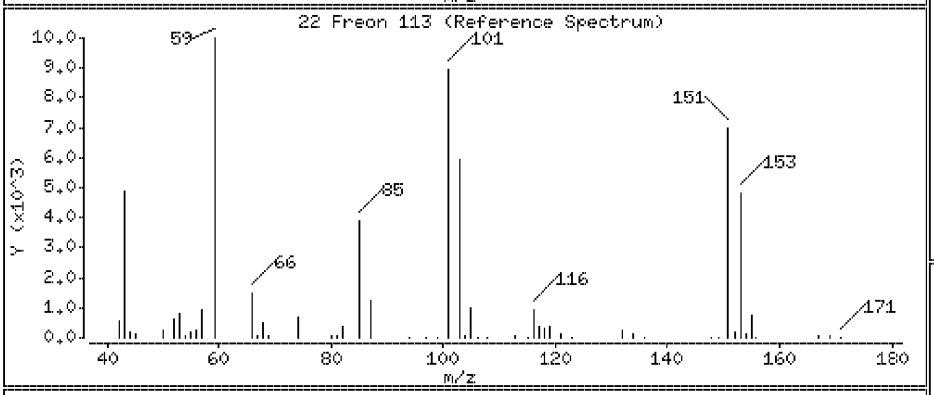
Concentration: 0.288 ppbv

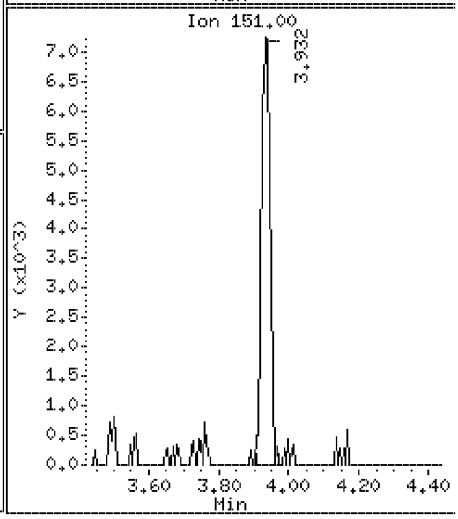


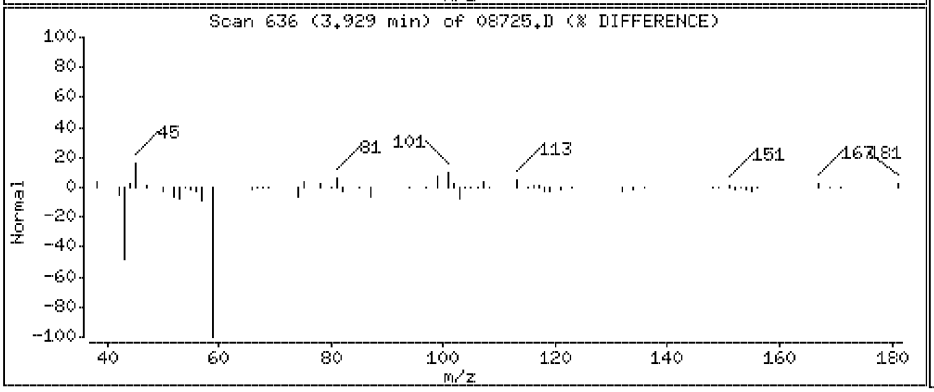












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

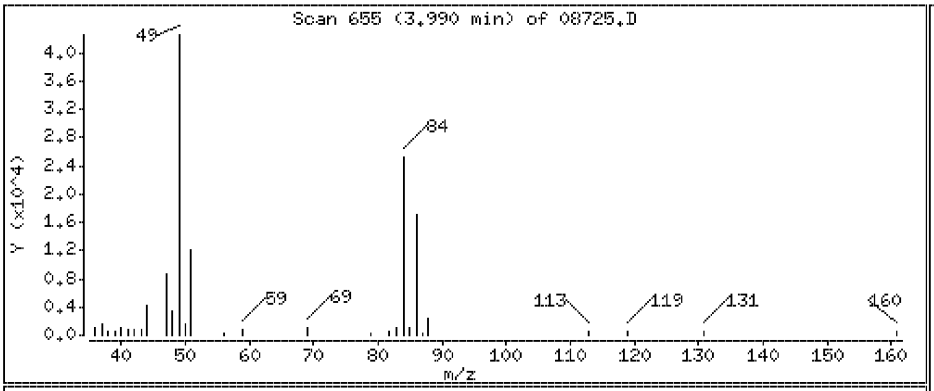
Operator: NCK

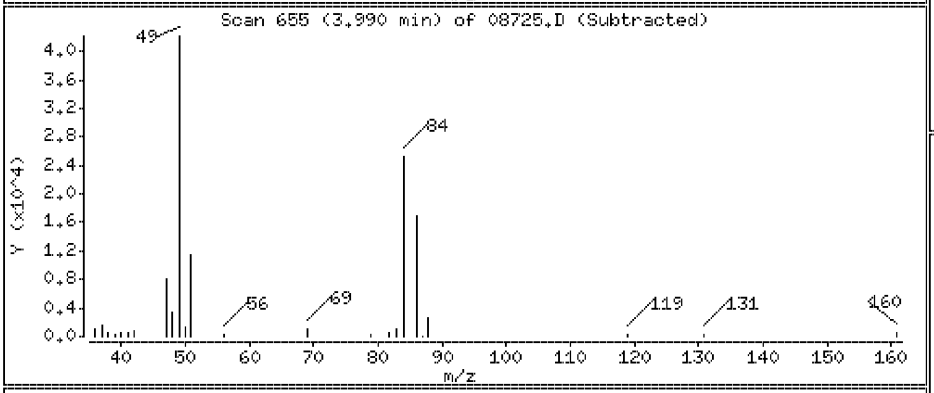
Column phase: J&W DB-5

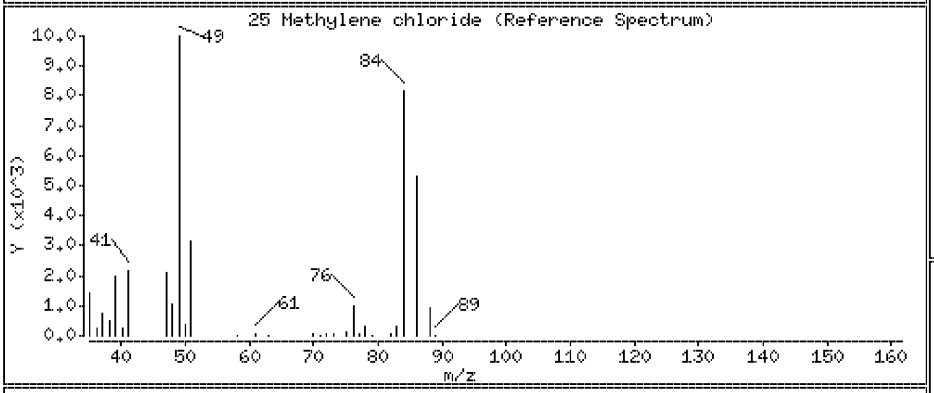
Column diameter: 0.32

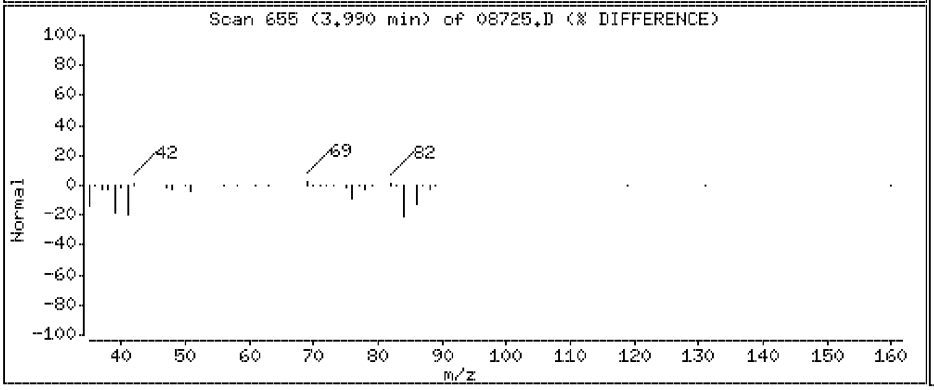
25 Methylene chloride

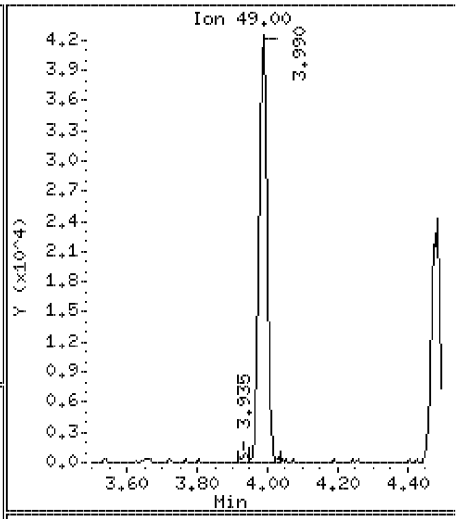
Concentration: 2.31 ppbv

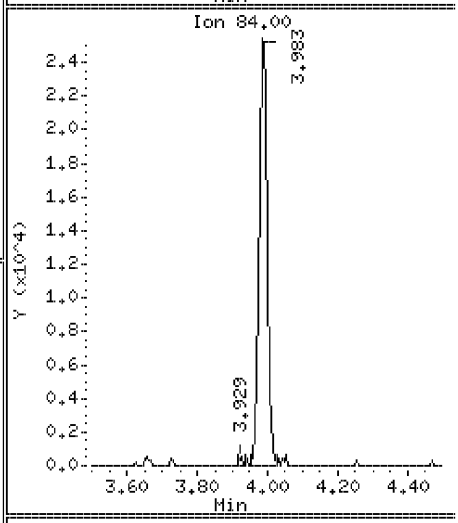


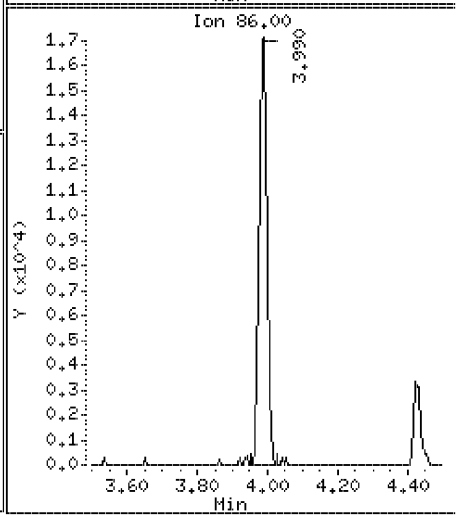












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

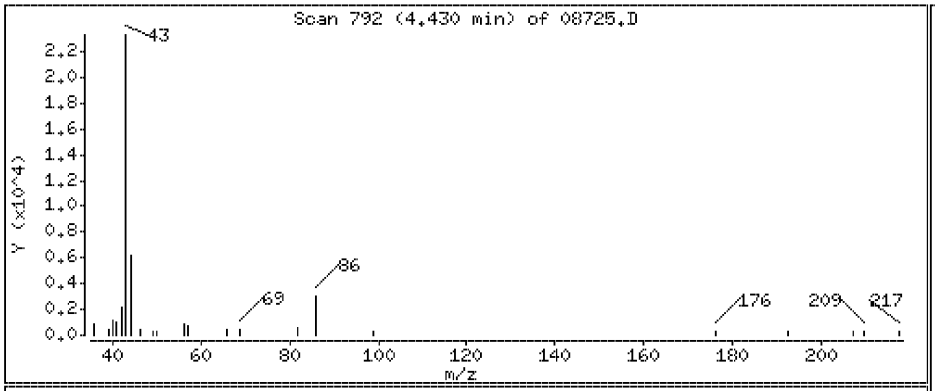
Operator: NCK

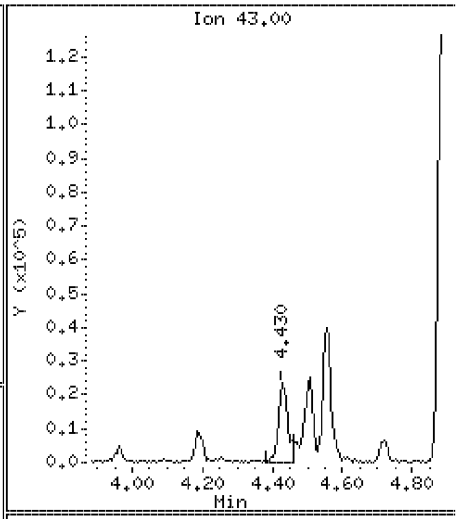
Column phase: J&W DB-5

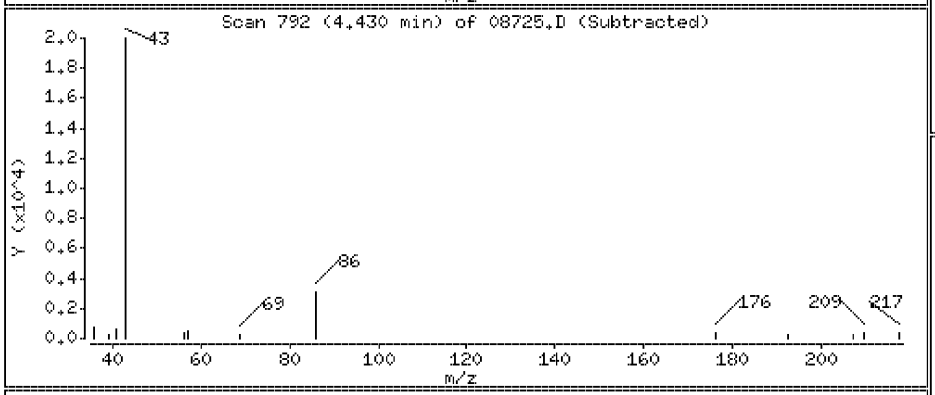
Column diameter: 0.32

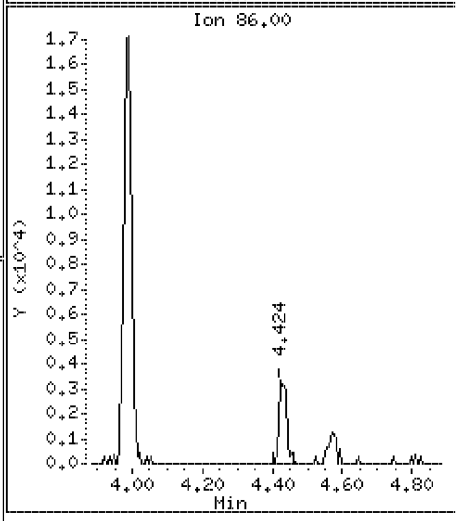
30 Vinyl Acetate

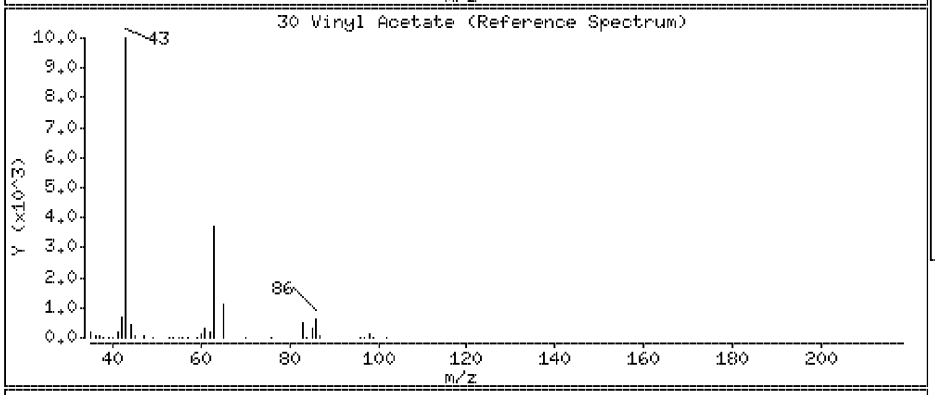
Concentration: 0.663 ppbv

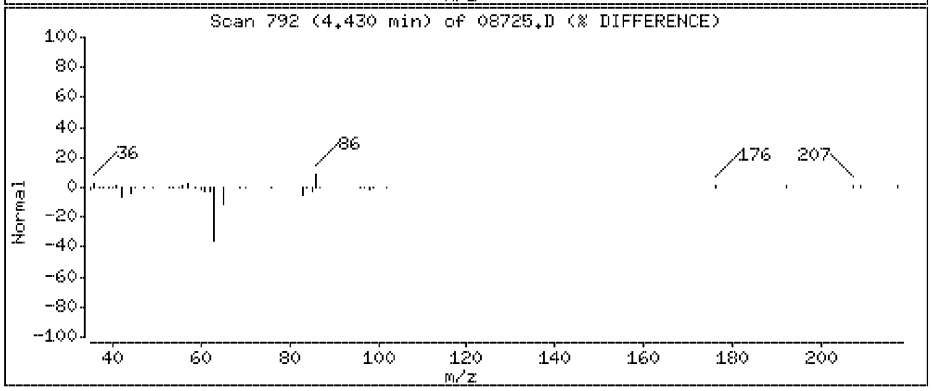












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

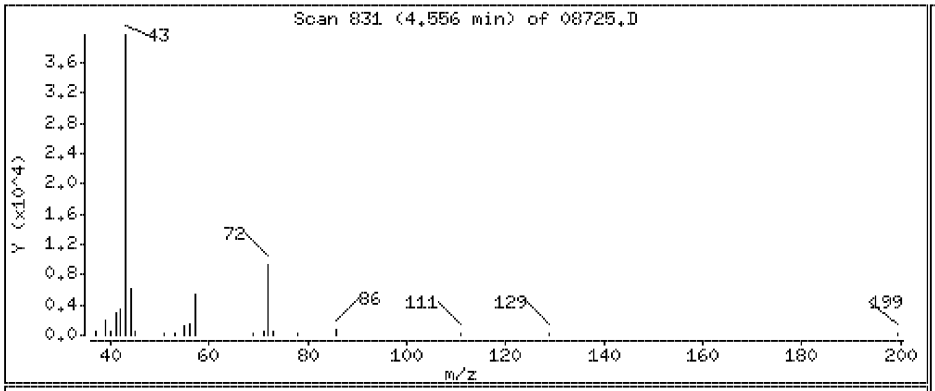
Operator: NCK

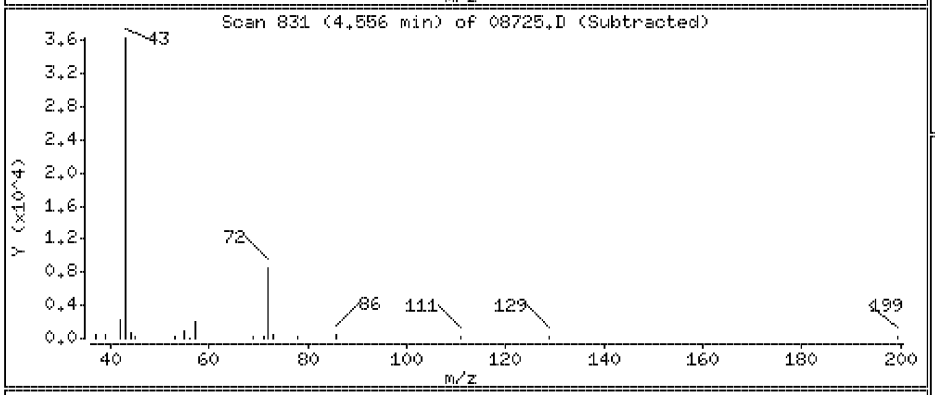
Column phase: J&W DB-5

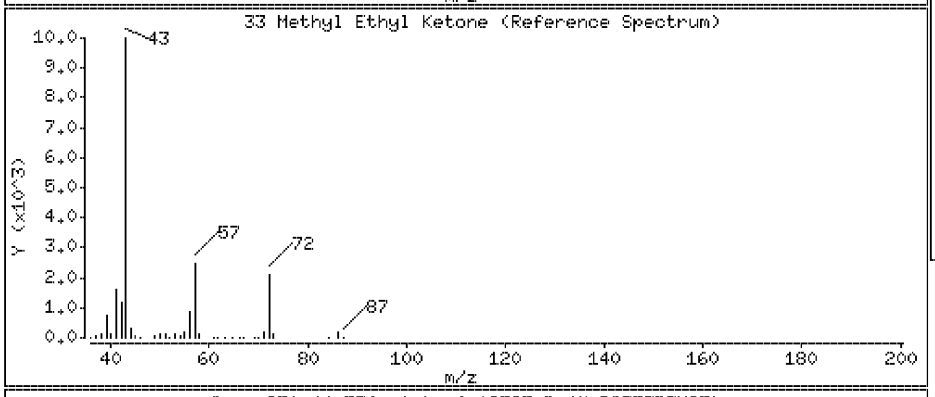
Column diameter: 0.32

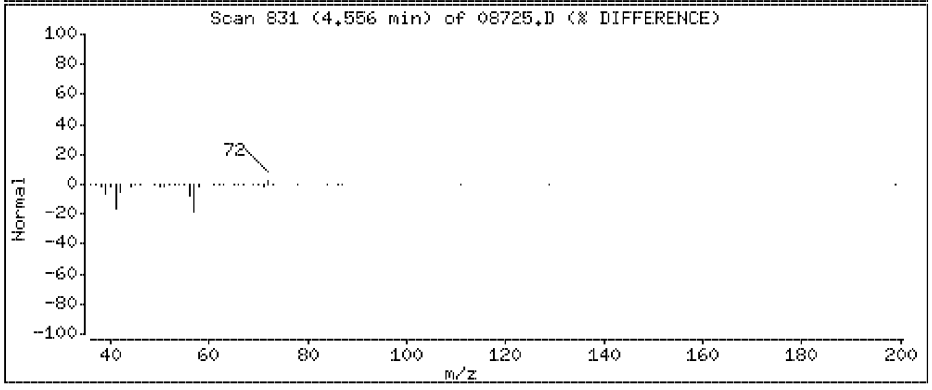
33 Methyl Ethyl Ketone

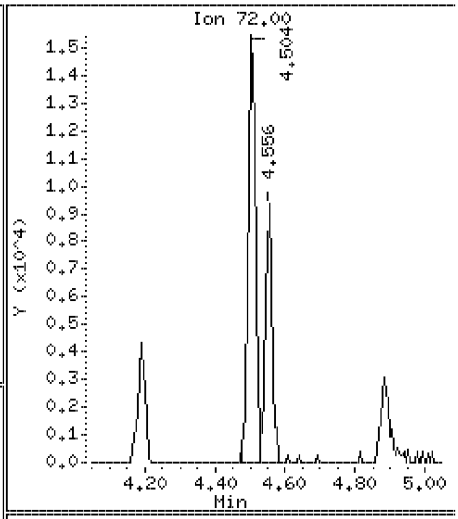
Concentration: 1.000 ppbv

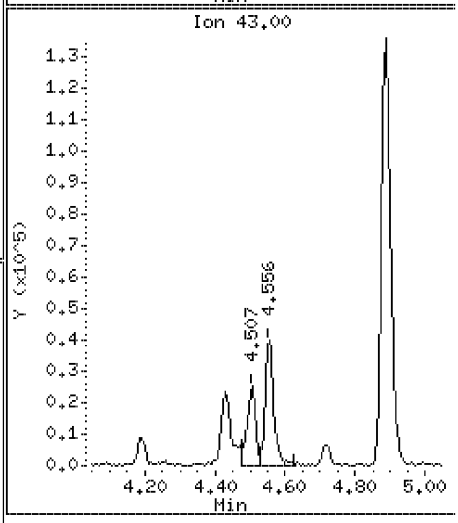












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

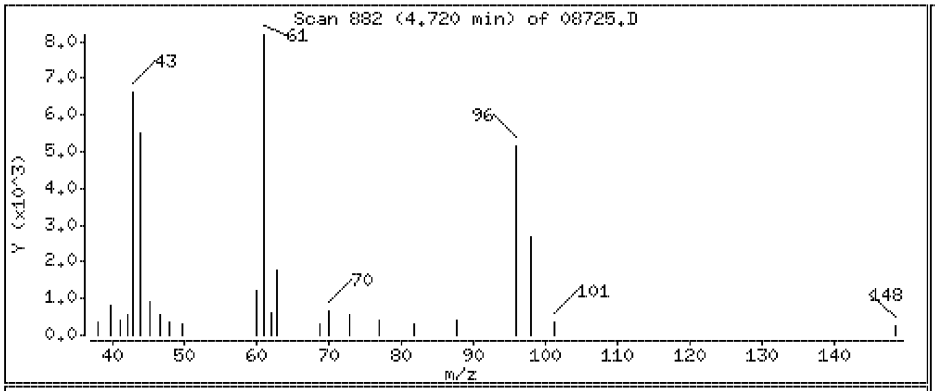
Operator: NCK

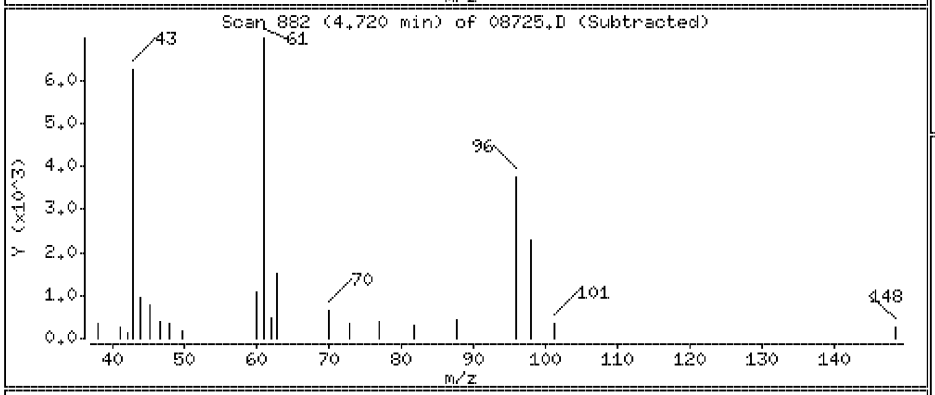
Column phase: J&W DB-5

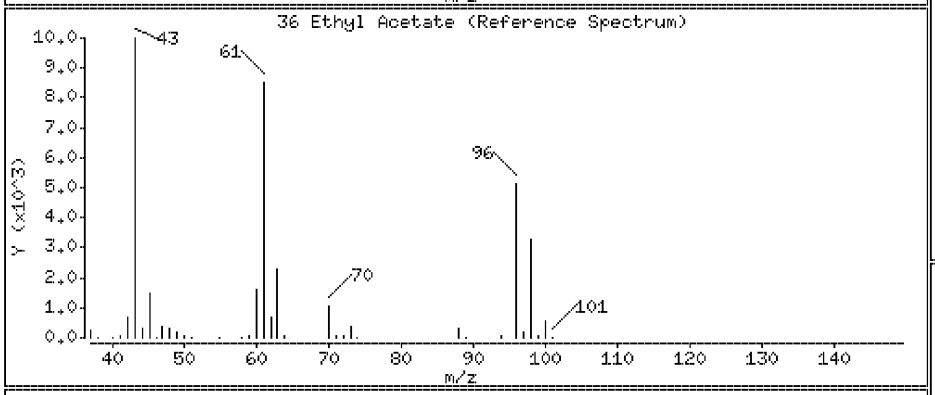
Column diameter: 0.32

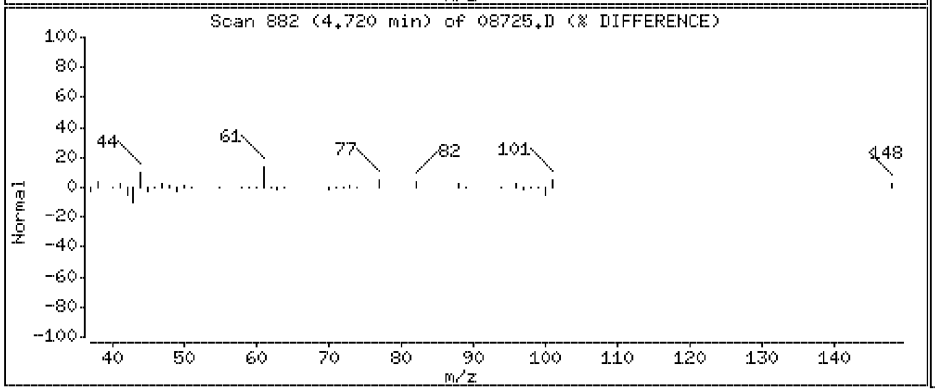
36 Ethyl Acetate

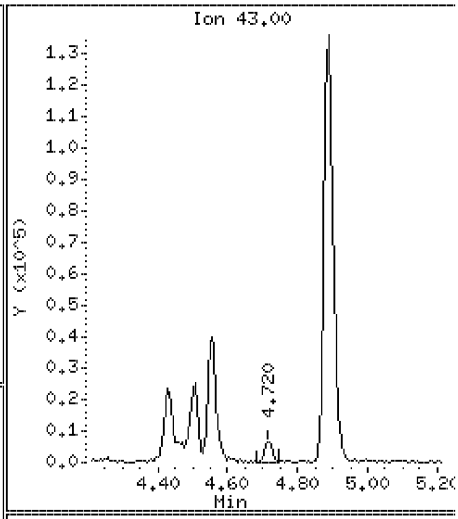
Concentration: 0.185 ppbv

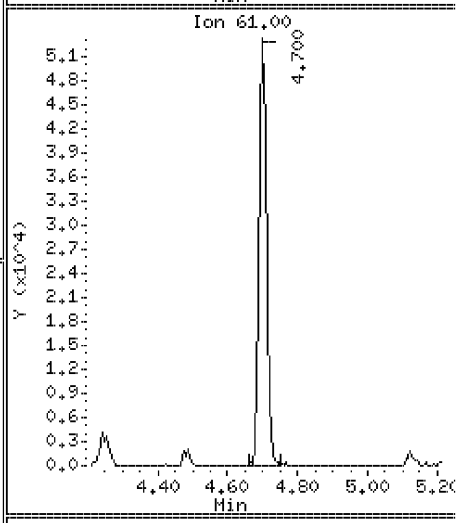


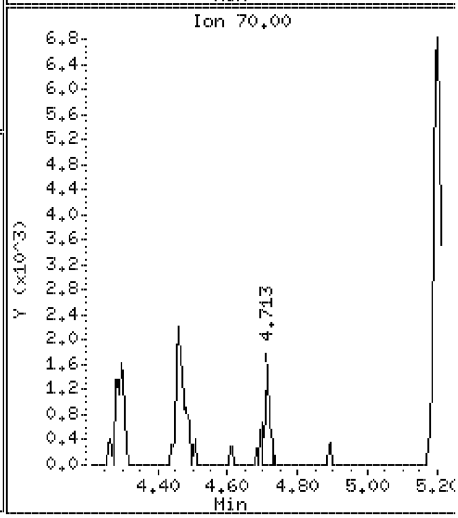












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

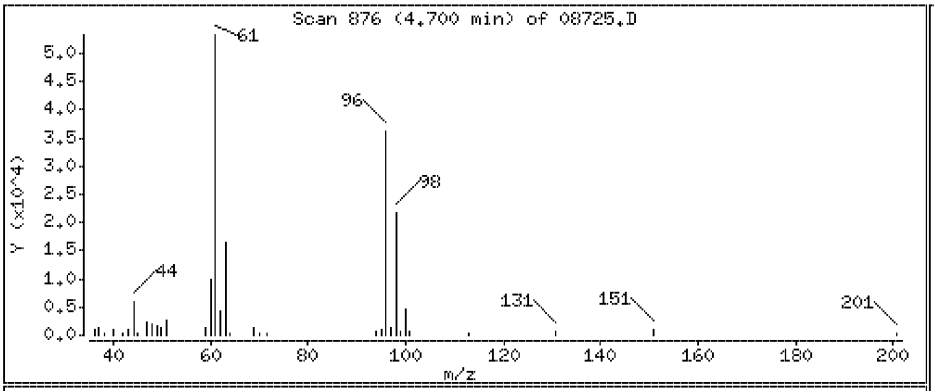
Operator: NCK

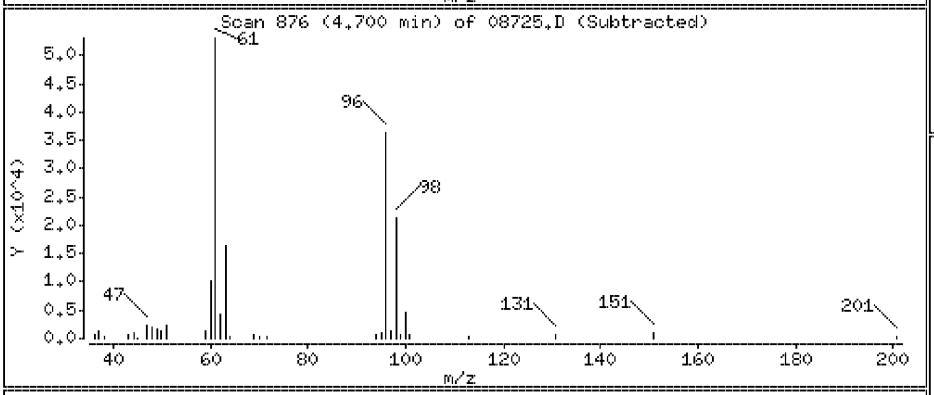
Column phase: J&W DB-5

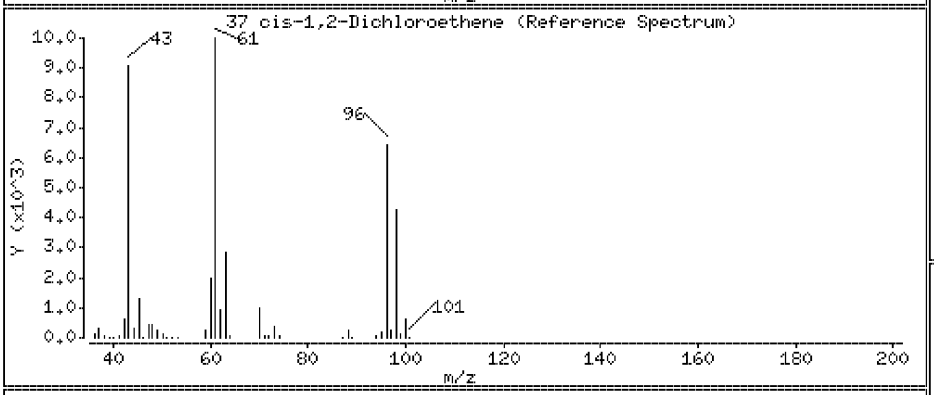
Column diameter: 0.32

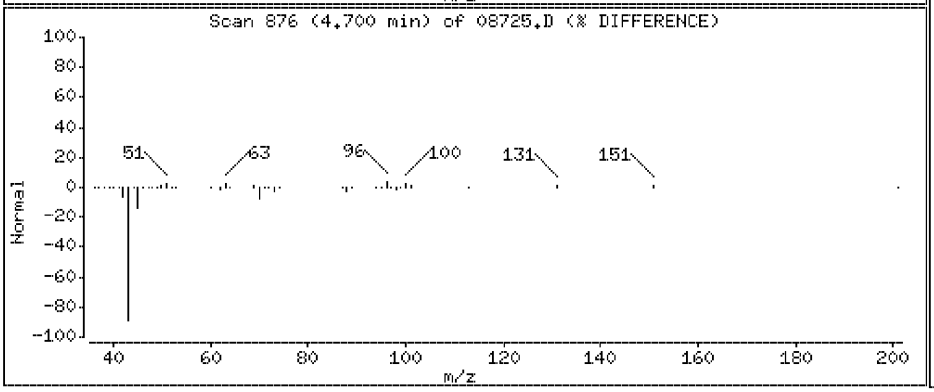
37 cis-1,2-Dichloroethene

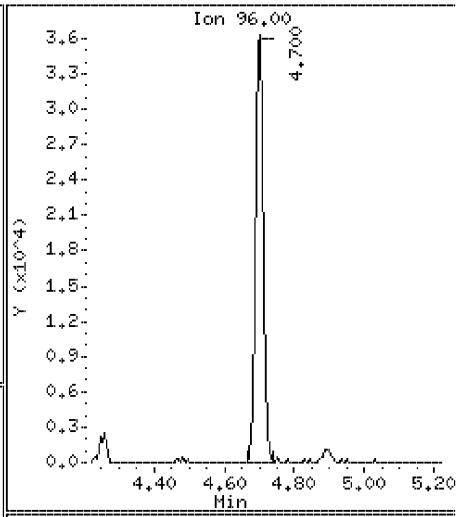
Concentration: 2.21 ppbv

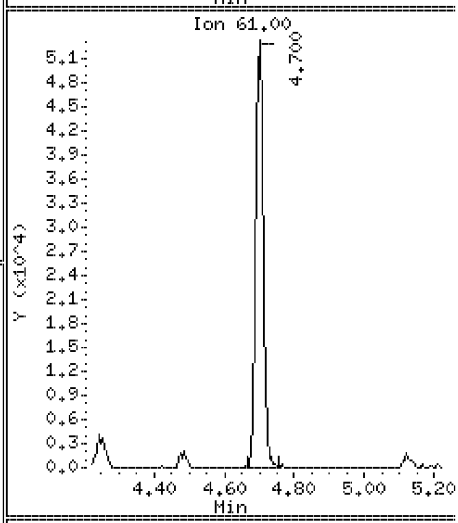


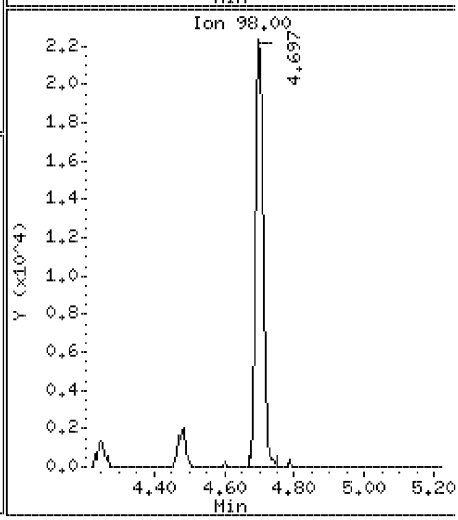












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

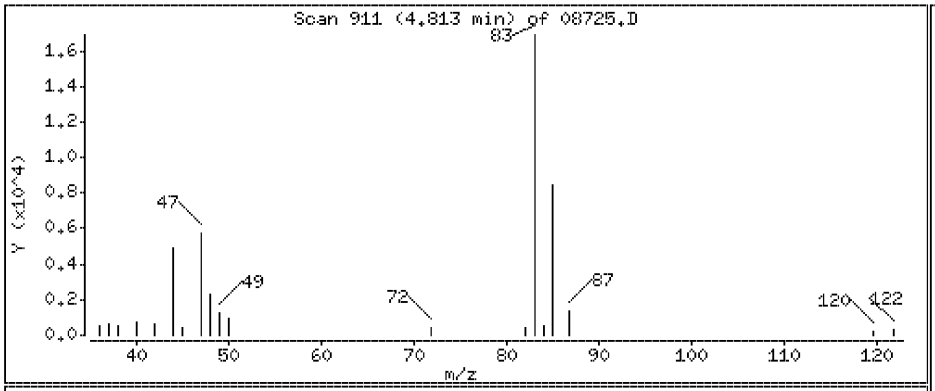
Operator: NCK

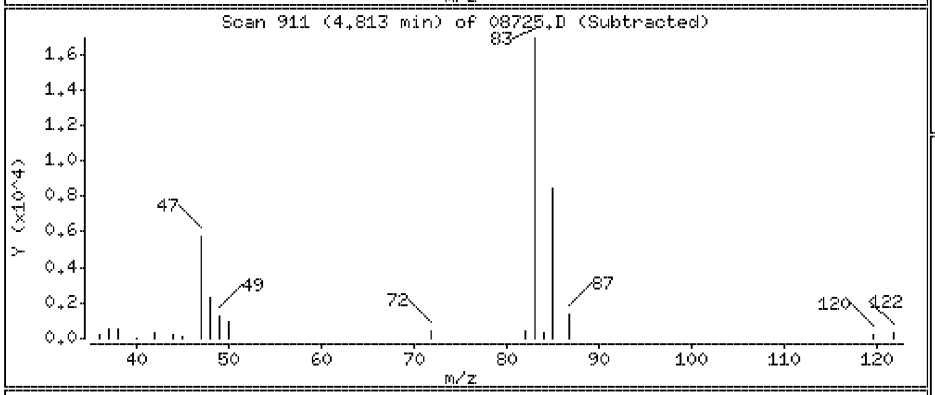
Column phase: J&W DB-5

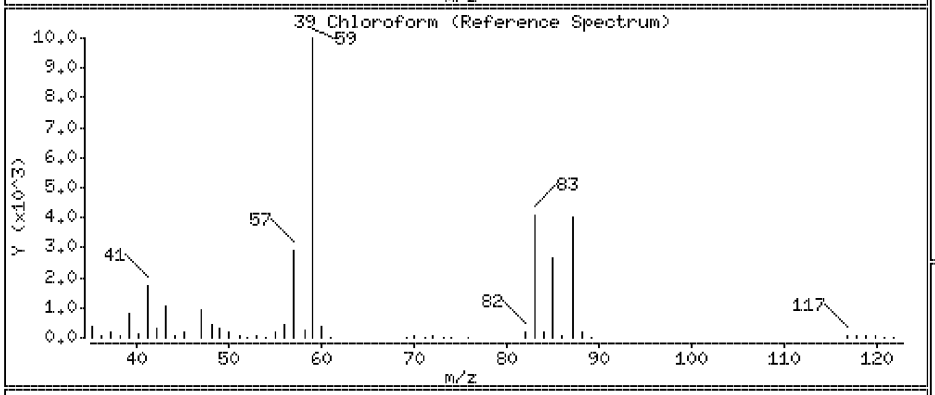
Column diameter: 0.32

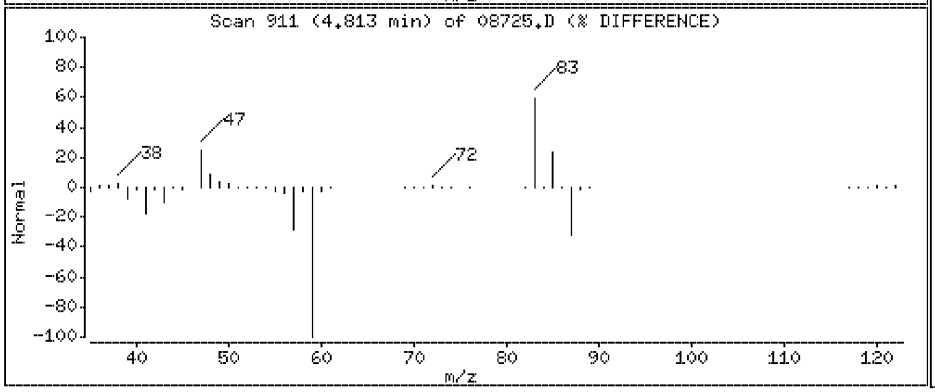
39 Chloroform

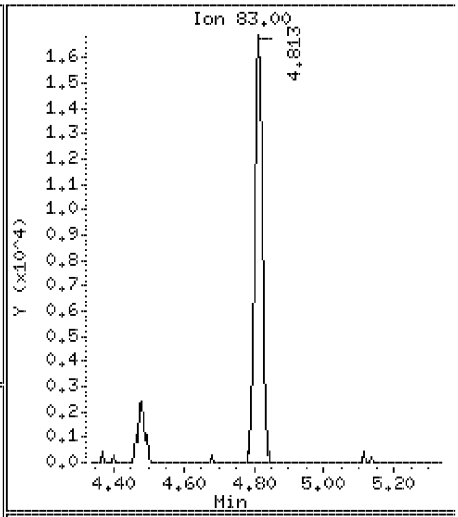
Concentration: 0.511 ppbv

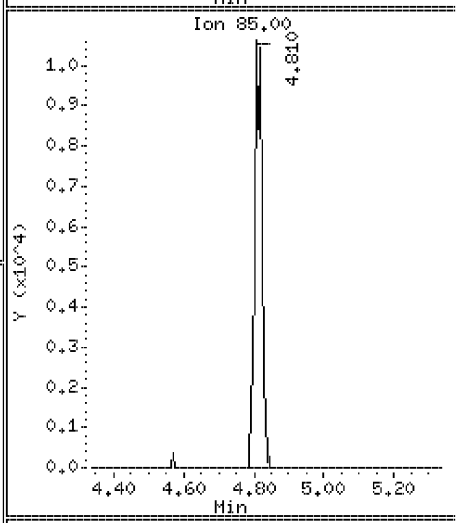


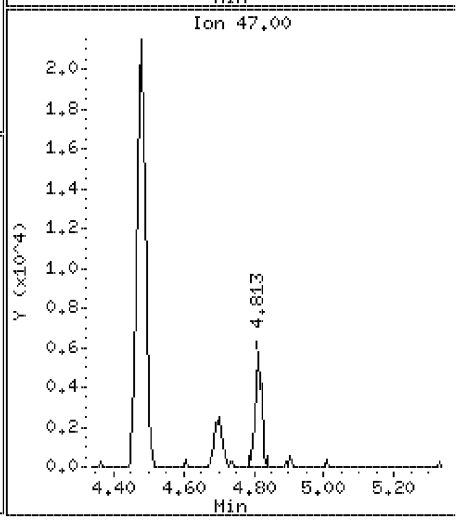












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

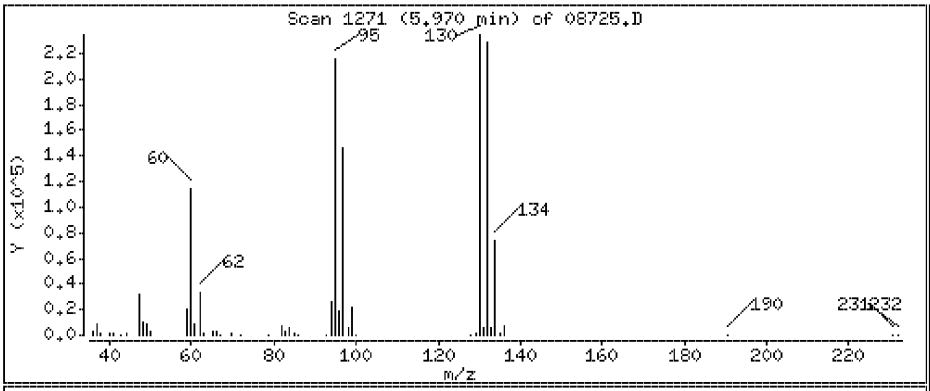
Operator: NCK

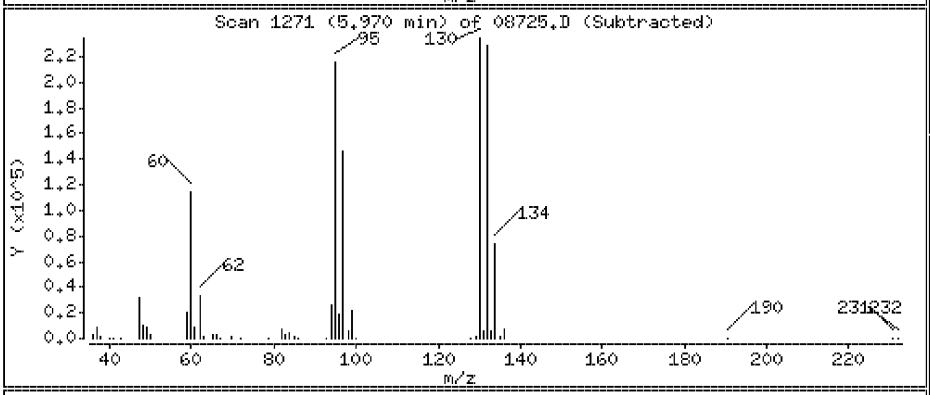
Column phase: J&W DB-5

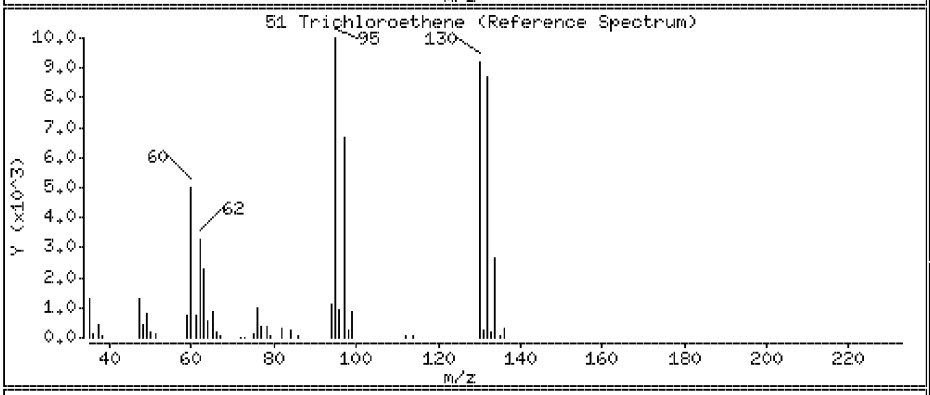
Column diameter: 0.32

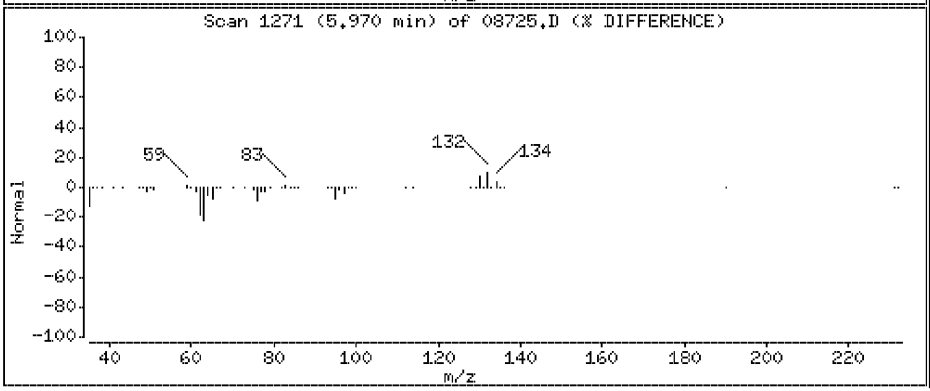
51 Trichloroethene

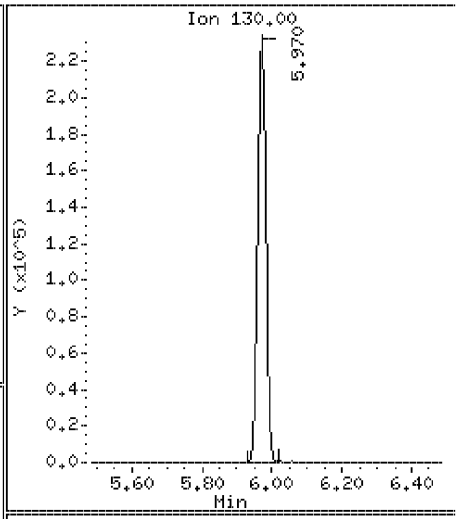
Concentration: 8.48 ppbv

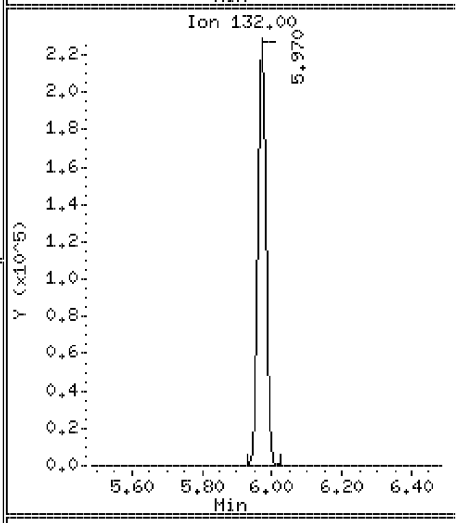


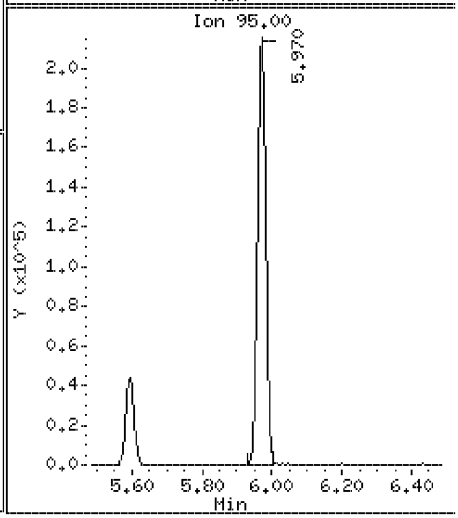












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

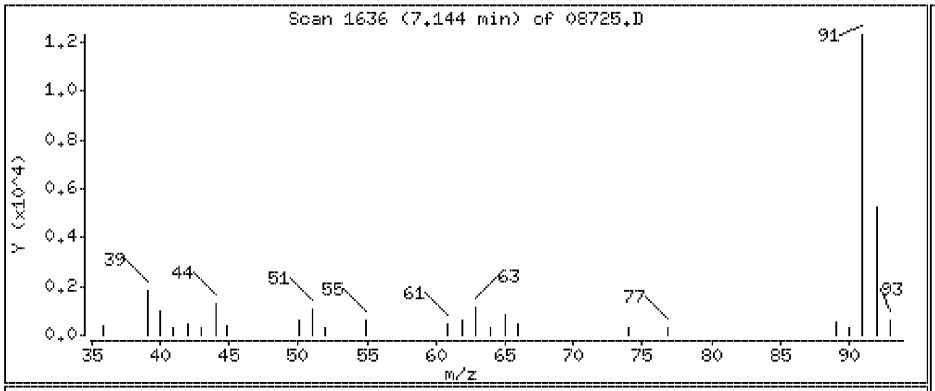
Operator: NCK

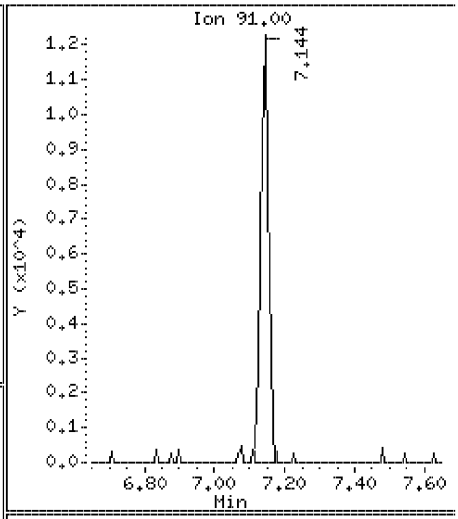
Column phase: J&W DB-5

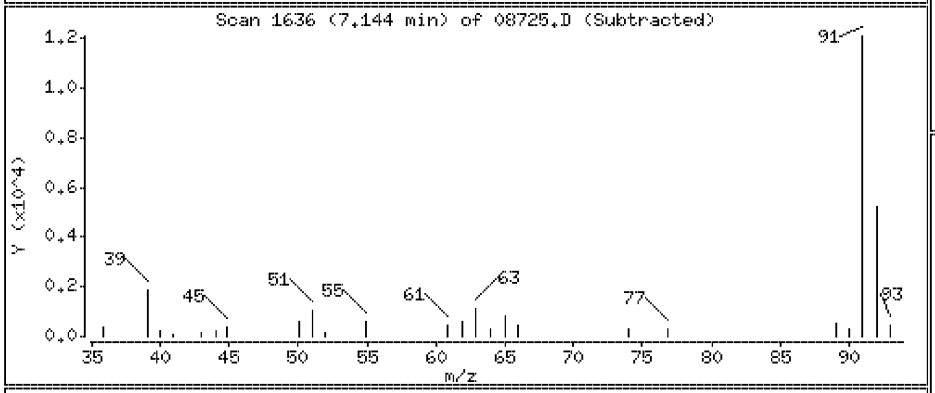
Column diameter: 0.32

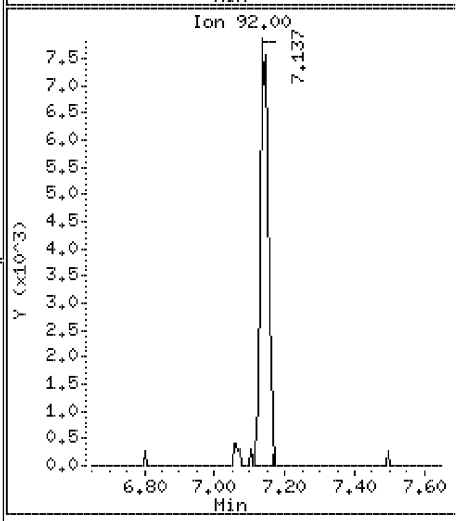
61 Toluene

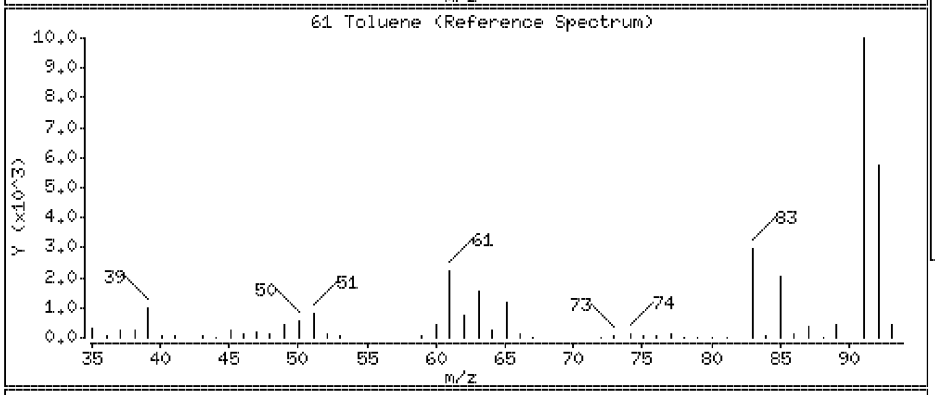
Concentration: 0.184 ppbv

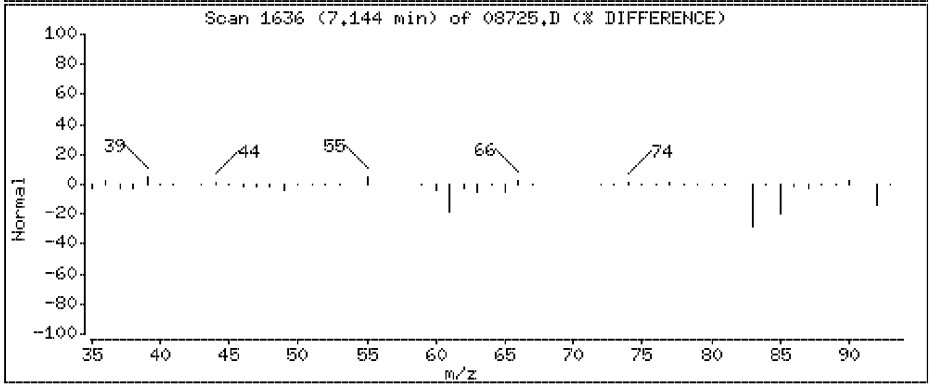












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08725.D

Date : 28-MAR-2017 21:46

Client ID:

Instrument: 10airB.i

Sample Info:

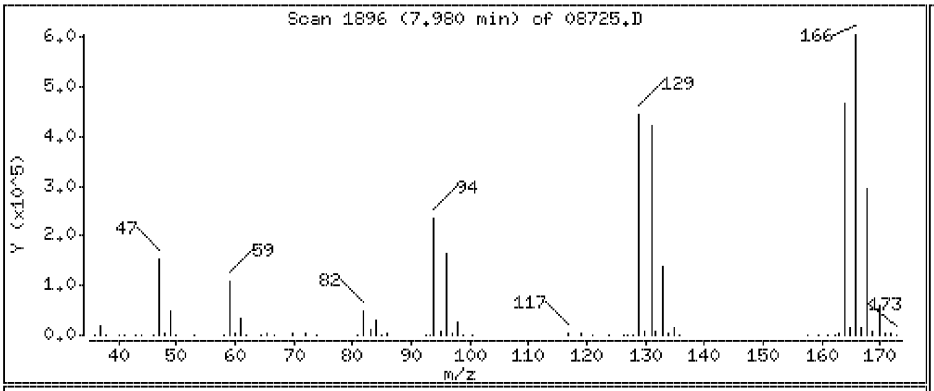
Operator: NCK

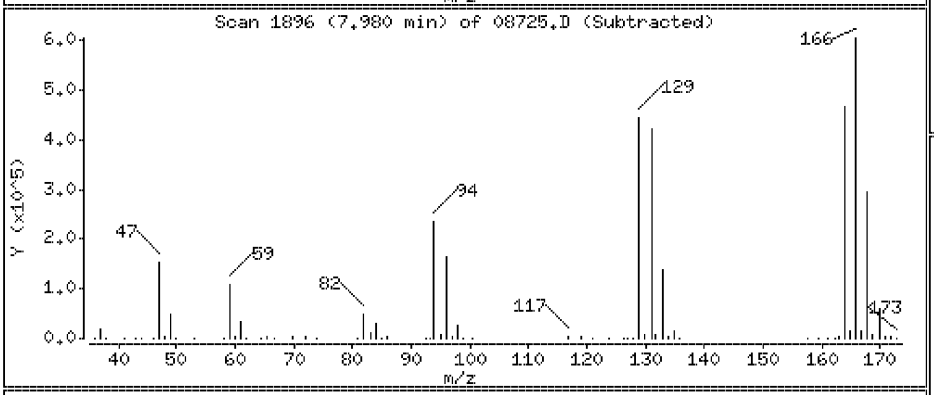
Column phase: J&W DB-5

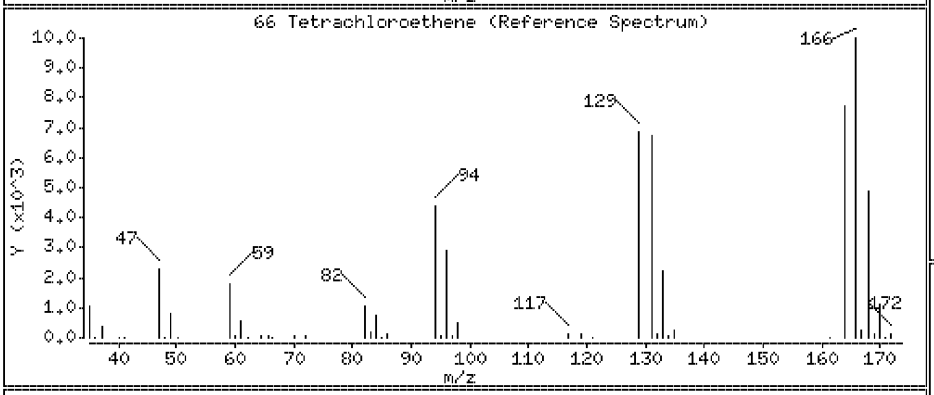
Column diameter: 0.32

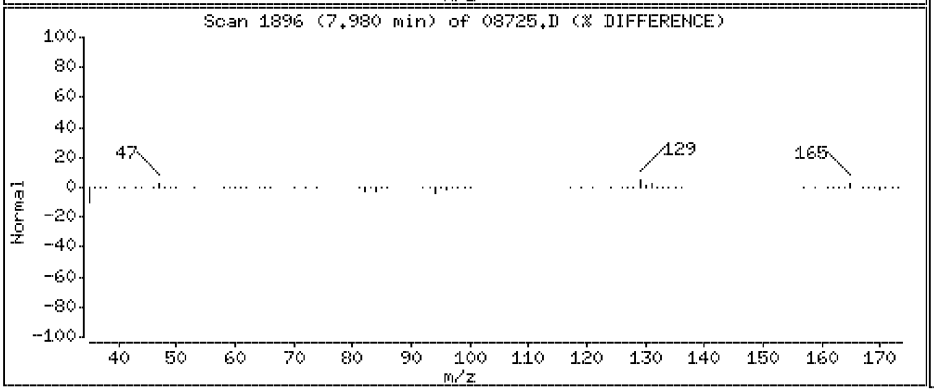
66 Tetrachloroethene

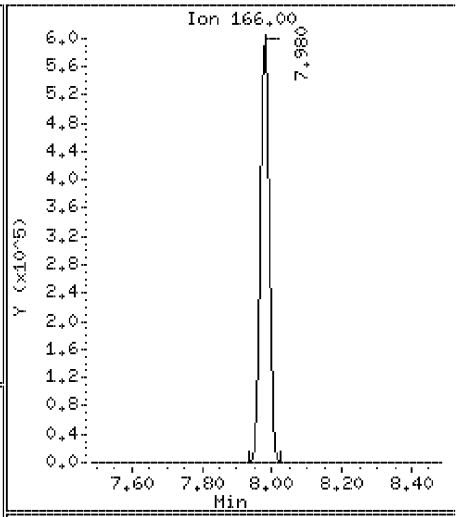
Concentration: 18.5 ppbv

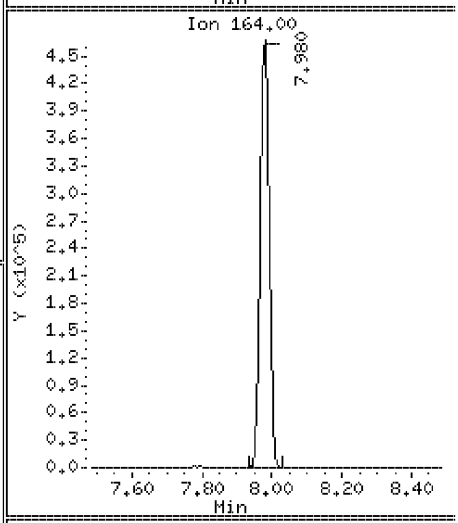


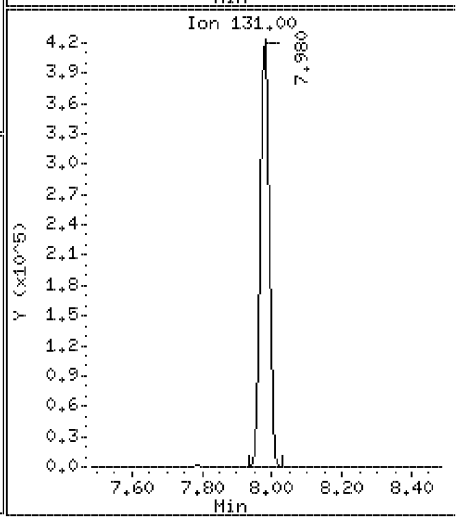






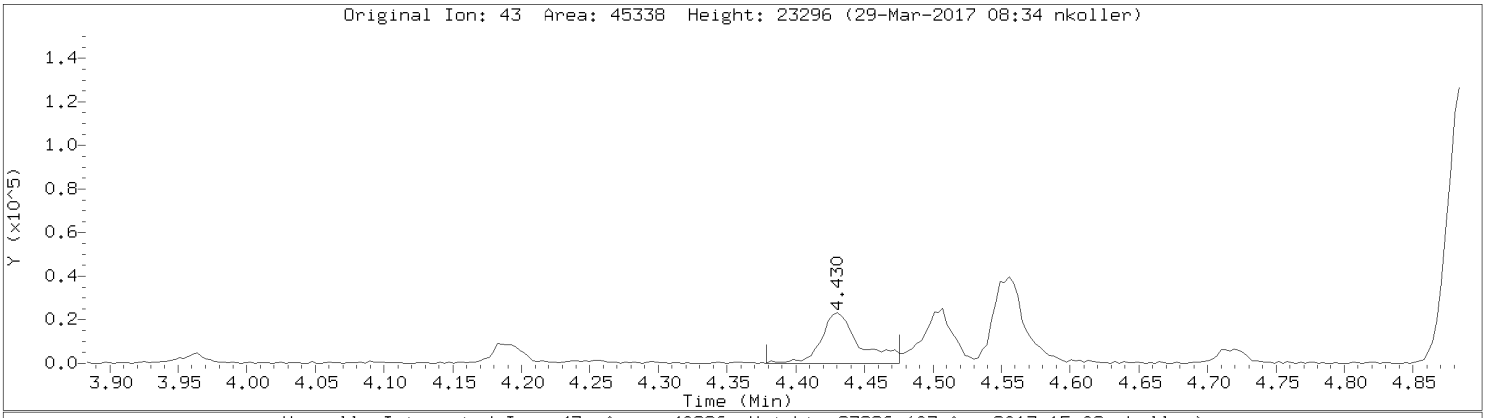


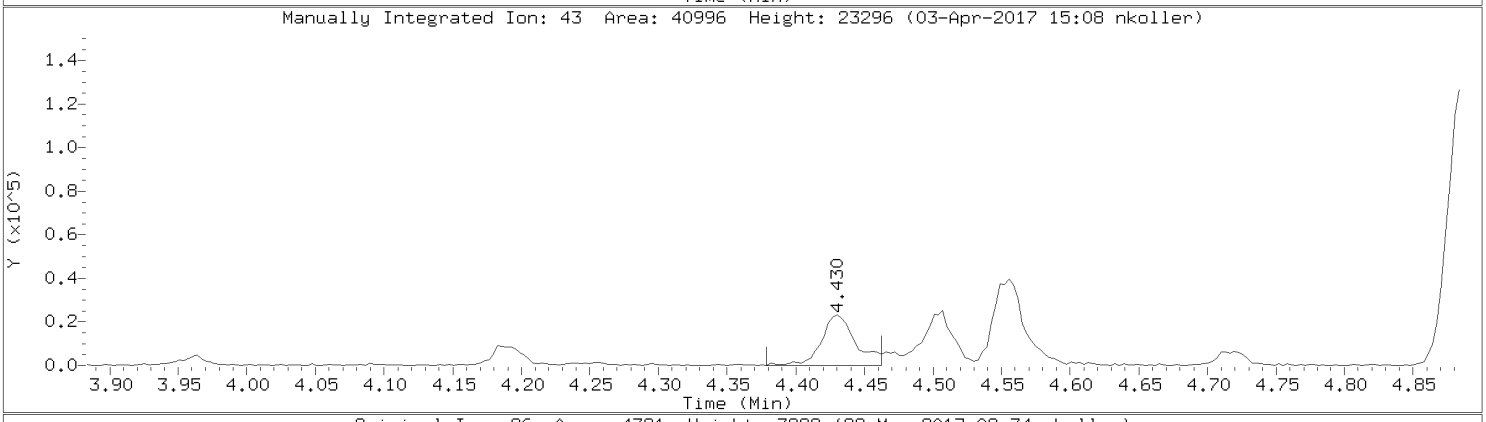


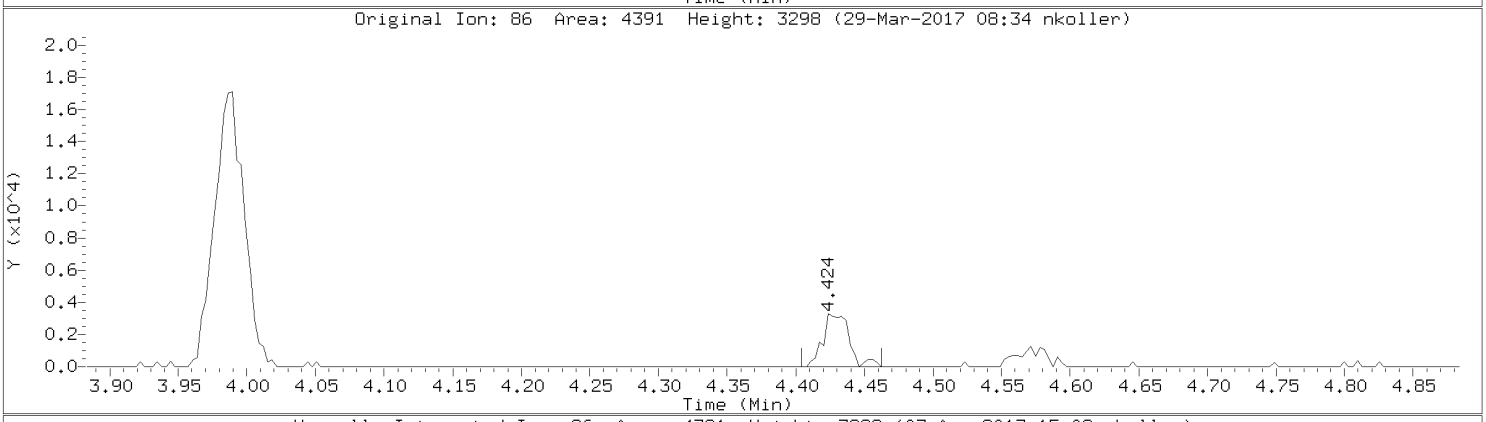


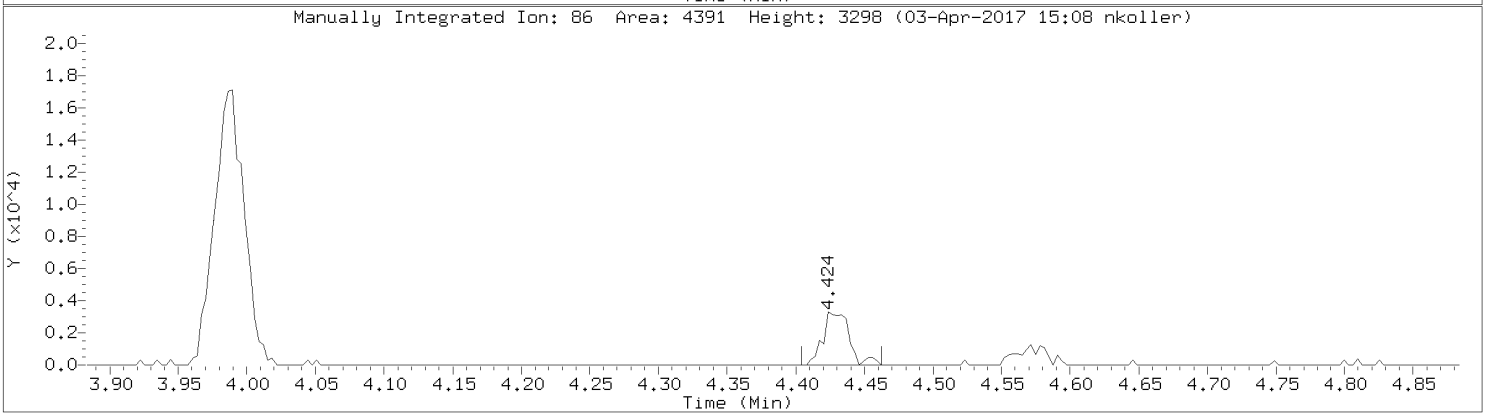
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08725.D
Injection Date: 28-MAR-2017 21:46
Instrument: 10airB.i
Lab Sample ID: 10381335012

Compound: Vinyl Acetate
CAS Number: 108-05-4



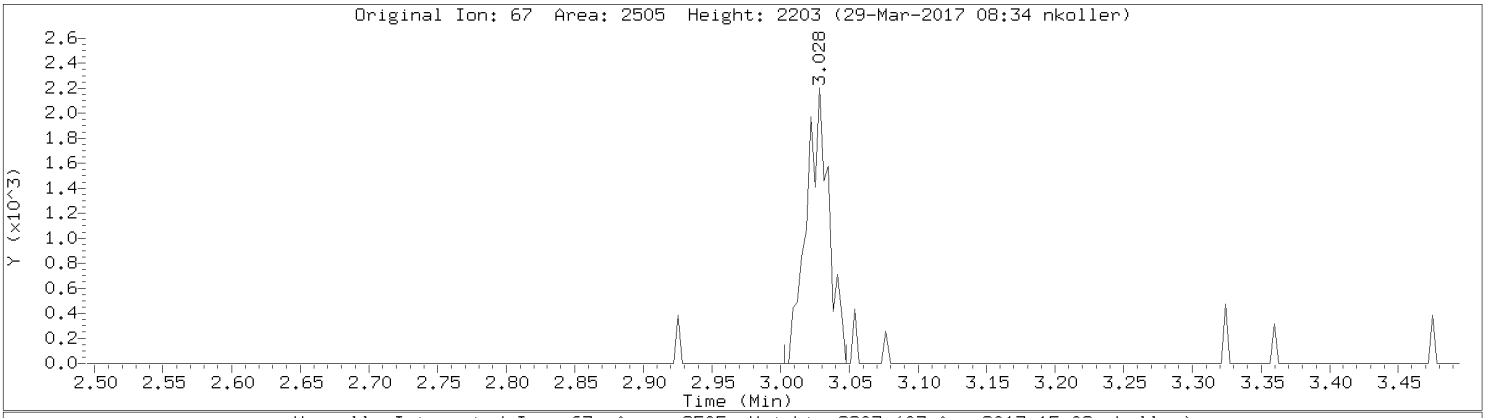


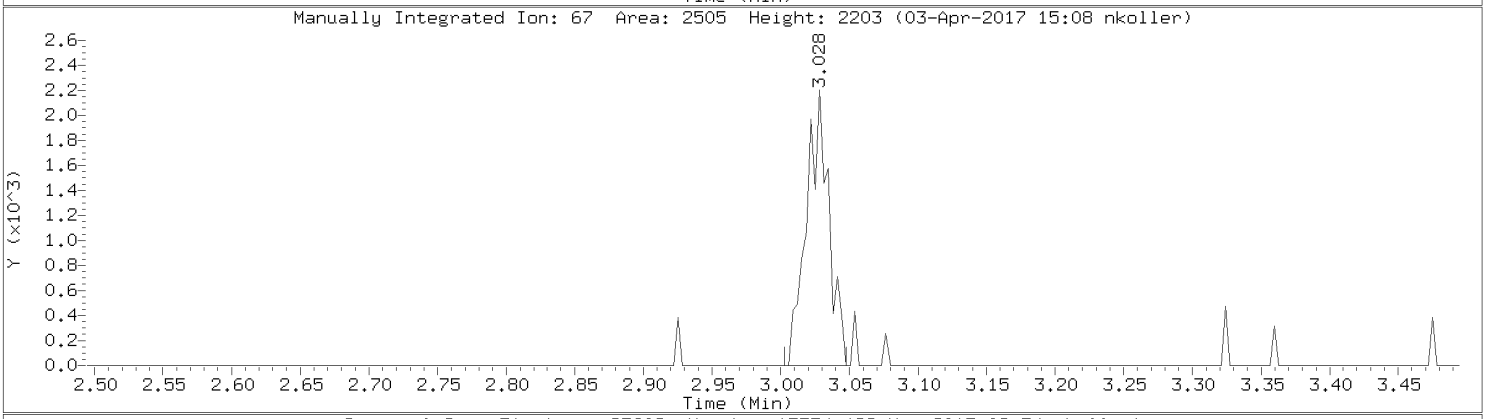


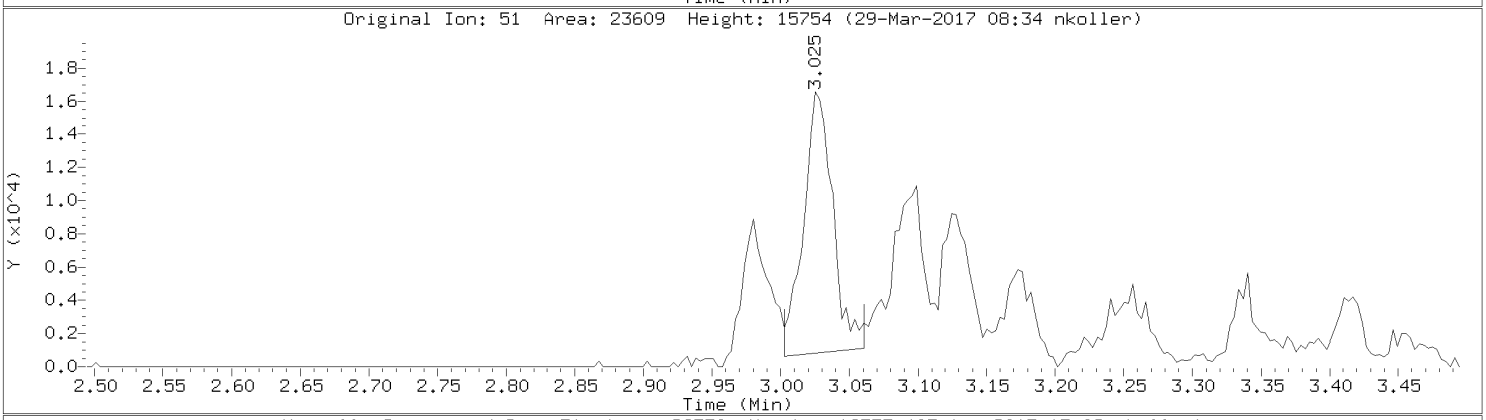


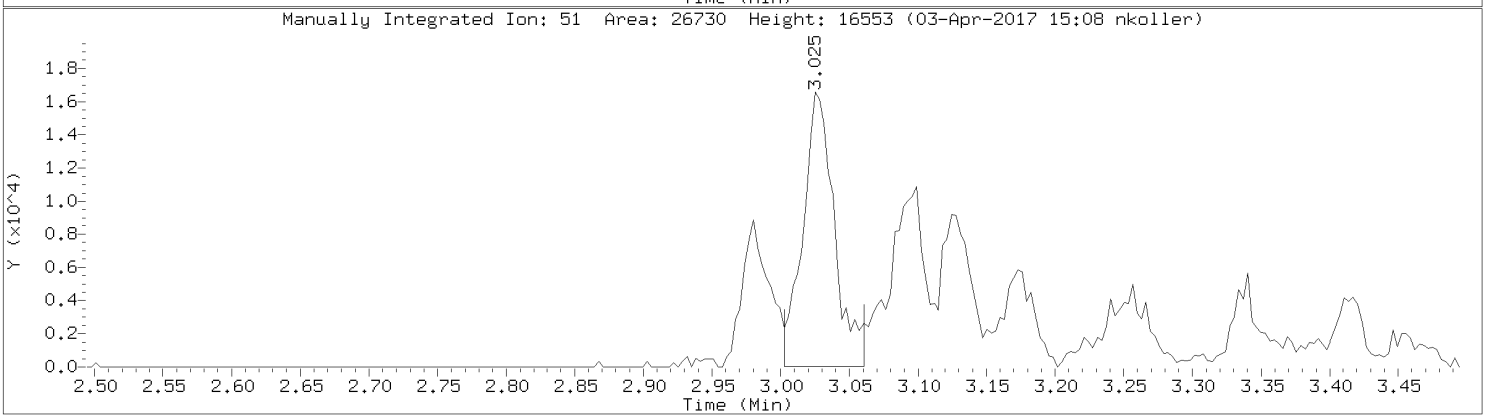
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08725.D
Injection Date: 28-MAR-2017 21:46
Instrument: 10airB.i
Lab Sample ID: 10381335012

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

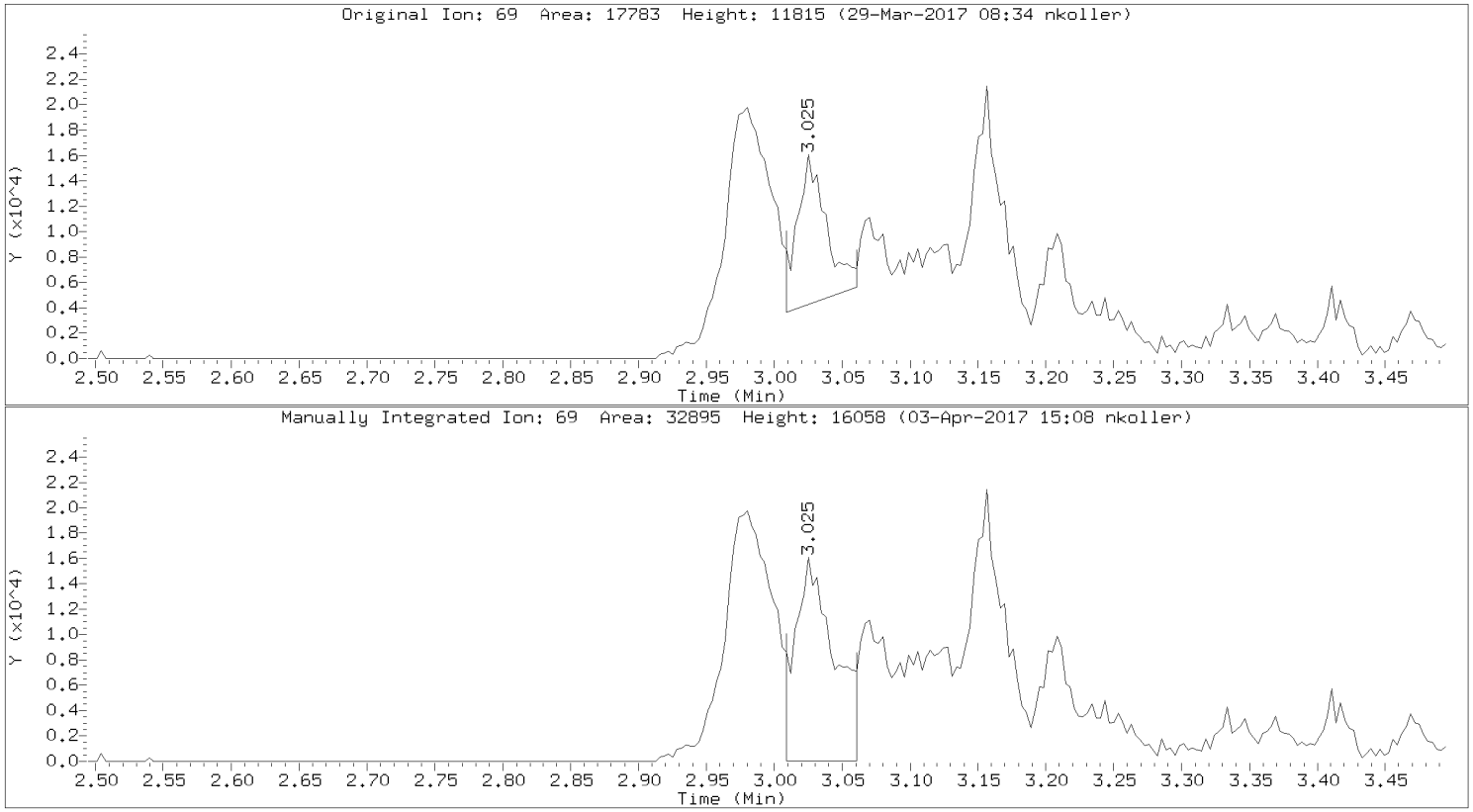








Data File: \\192.168.10.12\chem\10airB.i\032817.b/08725.D
Injection Date: 28-MAR-2017 21:46
Instrument: 10airB.i
Lab Sample ID: 10381335012



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_20_20170307 **Lab ID: 10381335012** Collected: 03/07/17 13:51 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/28/17 21:46	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/28/17 21:46	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/28/17 21:46	79-34-5	
Tetrachloroethene	**127**	ug/m3	1.2	0.49	1.75		03/28/17 21:46	127-18-4	
Toluene	**0.70J**	ug/m3	1.3	0.27	1.75		03/28/17 21:46	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/28/17 21:46	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/28/17 21:46	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/28/17 21:46	79-00-5	
Trichloroethene	**46.3**	ug/m3	0.96	0.48	1.75		03/28/17 21:46	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.0	0.23	1.75		03/28/17 21:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	**2.2J**	ug/m3	2.8	0.53	1.75		03/28/17 21:46	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/28/17 21:46	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/28/17 21:46	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/28/17 21:46	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/28/17 21:46	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/28/17 21:46	95-47-6	

Sample: VP-3D_40_20170307 **Lab ID: 10381335013** Collected: 03/07/17 12:00 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**88.2**	ug/m3	4.1	1.4	1.68		03/31/17 06:02	67-64-1	CH,L1
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/31/17 06:02	107-05-1	
Benzene	**0.33J**	ug/m3	0.55	0.20	1.68		03/31/17 06:02	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	11.4	0.33	1.68		03/31/17 06:02	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/31/17 06:02	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/31/17 06:02	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/31/17 06:02	106-99-0	
2-Butanone (MEK)	**6.7**	ug/m3	5.0	0.38	1.68		03/31/17 06:02	78-93-3	CH,L1
Carbon disulfide	**1.6**	ug/m3	1.1	0.17	1.68		03/31/17 06:02	75-15-0	CH
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/31/17 06:02	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/31/17 06:02	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/31/17 06:02	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/31/17 06:02	75-00-3	
Chloroform	**5.2**	ug/m3	0.83	0.32	1.68		03/31/17 06:02	67-66-3	CH,L1
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/31/17 06:02	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/31/17 06:02	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/31/17 06:02	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/31/17 06:02	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/31/17 06:02	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/31/17 06:02	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/31/17 06:02	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/31/17 06:02	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_40_20170307 **Lab ID: 10381335013** Collected: 03/07/17 12:00 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.84**	ug/m3	5.1	0.84	1.68		03/31/17 06:02	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.7	0.81	1.68		03/31/17 06:02	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/31/17 06:02	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/31/17 06:02	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/31/17 06:02	75-35-4	
cis-1,2-Dichloroethene	**20.1**	ug/m3	1.4	0.41	1.68		03/31/17 06:02	156-59-2	CH,L1
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/31/17 06:02	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/31/17 06:02	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/31/17 06:02	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/31/17 06:02	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/31/17 06:02	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/31/17 06:02	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/31/17 06:02	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/31/17 06:02	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/31/17 06:02	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/31/17 06:02	87-68-3	
n-Hexane	**2.3**	ug/m3	1.2	0.60	1.68		03/31/17 06:02	110-54-3	CH,L1
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/31/17 06:02	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/31/17 06:02	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/31/17 06:02	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/31/17 06:02	108-87-2	
Methylene Chloride	**143**	ug/m3	5.9	0.91	1.68		03/31/17 06:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/31/17 06:02	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/31/17 06:02	1634-04-4	
2-Propanol	**17.8**	ug/m3	4.2	0.40	1.68		03/31/17 06:02	67-63-0	CH,L1
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/31/17 06:02	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/31/17 06:02	79-34-5	
Tetrachloroethene	**69.6**	ug/m3	1.2	0.47	1.68		03/31/17 06:02	127-18-4	
Toluene	**<0.26**	ug/m3	1.3	0.26	1.68		03/31/17 06:02	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/31/17 06:02	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/31/17 06:02	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/31/17 06:02	79-00-5	
Trichloroethene	**33.3**	ug/m3	0.92	0.46	1.68		03/31/17 06:02	79-01-6	
Trichlorofluoromethane	**1.6J**	ug/m3	1.9	0.22	1.68		03/31/17 06:02	75-69-4	CH,L1
1,1,2-Trichlorotrifluoroethane	**4.3**	ug/m3	2.7	0.51	1.68		03/31/17 06:02	76-13-1	CH,L1
1,2,4-Trimethylbenzene	**2.7**	ug/m3	1.7	0.21	1.68		03/31/17 06:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/31/17 06:02	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/31/17 06:02	75-01-4	
m&p-Xylene	**2.1J**	ug/m3	3.0	1.3	1.68		03/31/17 06:02	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/31/17 06:02	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D
Report Date: 04-Apr-2017 13:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08937.D
Lab Smp Id: 10381335013
Inj Date : 31-MAR-2017 06:02
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28049
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 04-Apr-2017 12:52 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 37
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	3.057	3.066	(0.542)	9266	0.21389	0.359	(Q)
5	Dichlorodifluoromethane	85	3.095	3.114	(0.548)	40024	0.26748	0.449	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.639	3.671	(0.645)	232017	11.6856	19.6	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.713	3.745	(0.658)	18185	0.17023	0.286	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.783	3.806	(0.670)	1634384	21.7420	36.5	
19	Isopropyl Alcohol	45	3.870	3.905	(0.686)	351804	4.24325	7.13	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.995	4.018	(0.708)	27038	0.32890	0.553	
23	Methyl Acetate	43	4.012	4.040	(0.711)	17568	0.14414	0.242	(Q)
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D
Report Date: 04-Apr-2017 13:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	4.053	4.069	(0.718)	1391783	24.1167	40.5	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	4.159	4.188	(0.737)	24438	0.30761	0.517	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.539	4.548	(0.804)	985564	12.4315	12.4	
	33 Methyl Ethyl Ketone	72	4.619	4.639	(0.818)	27922	1.33914	2.25(Q)	
	34 n-Hexane	57	4.626	4.645	(0.819)	32380	0.38378	0.645(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.767	4.796	(0.845)	132114	2.96438	4.98(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.876	4.915	(0.864)	56926	0.62343	1.05	
	40 Tetrahydrofuran	42	5.073	5.069	(0.899)	63014	0.98179	1.65	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.503	5.529	(0.975)	9361	0.05998	0.101	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.645	5.674	(1.000)	2076476	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	6.018	6.047	(1.066)	288722	3.62853	6.10	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.101	7.121	(1.258)	1684545	9.60798	9.61	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.008	8.021	(0.925)	589645	6.00516	10.1	
*	67 Chlorobenzene - d5	117	8.661	8.677	(1.000)	1205749	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.092	9.111	(1.050)	47908	0.28070	0.472	
	71 n-Nonane	43	9.487	9.497	(1.095)	70494	0.63644	1.07	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D
Report Date: 04-Apr-2017 13:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.384	11.397	(2.017)	49097	0.40784	0.685	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.516	11.532	(1.330)	52465	0.31776	0.534	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.860	11.870	(1.369)	513913	9.34825	9.35	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	11.992	12.005	(1.385)	142381	0.72122	1.21	
89	1,2,3-Trimethylbenzene	105	12.040	12.053	(1.390)	19093	0.11932	0.200	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.182	(1.636)	12584	0.43045	0.723	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D
Report Date: 04-Apr-2017 13:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08937.D
Lab Smp Id: 10381335013
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info: 28049

Calibration Date: 31-MAR-2017
Calibration Time: 03:32
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

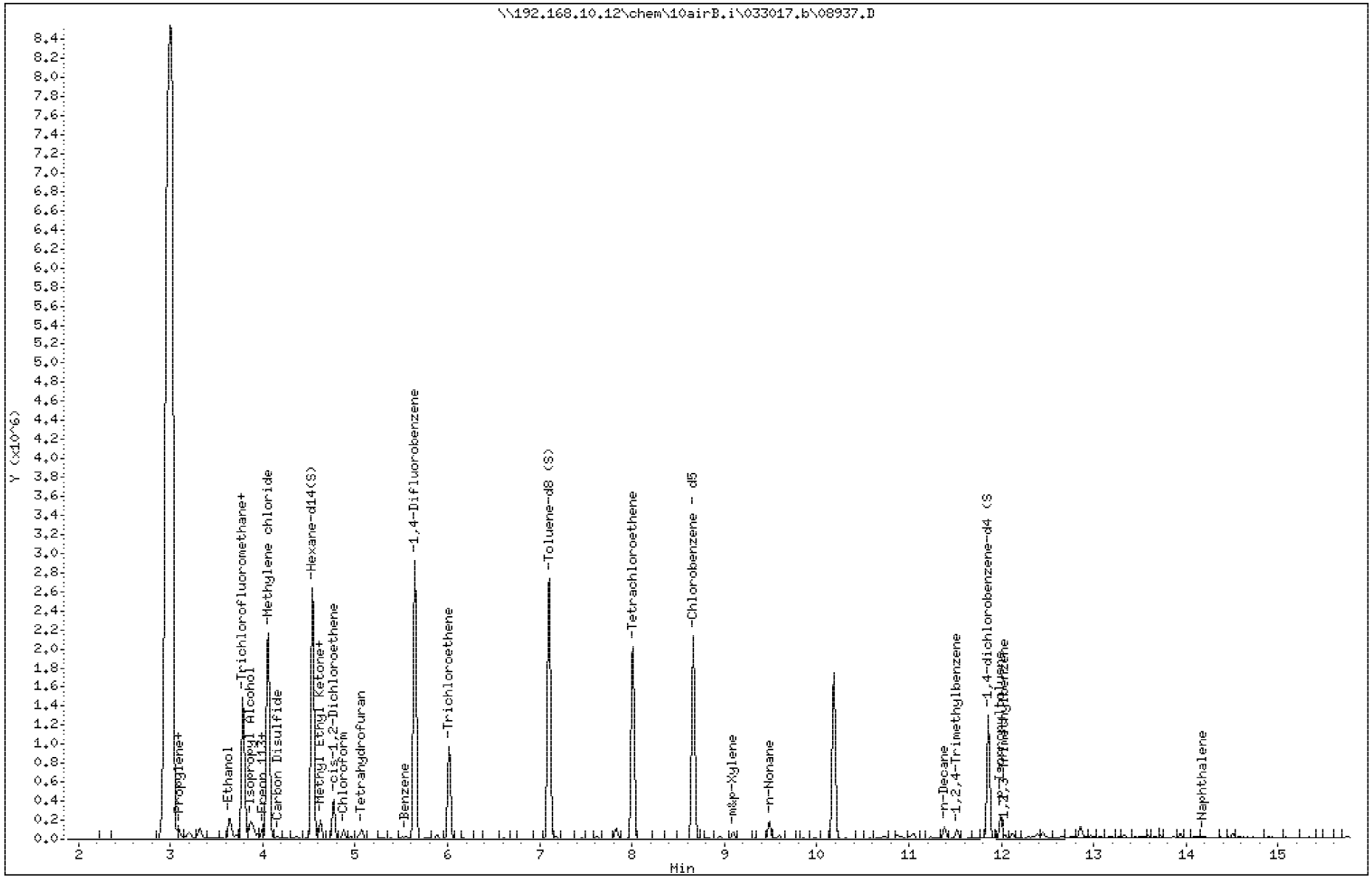
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	2076476	13.94
67 Chlorobenzene - d	1204744	722846	1686642	1205749	0.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.67	5.34	6.00	5.65	-0.51
67 Chlorobenzene - d	8.68	8.35	9.01	8.66	-0.18

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D
Date : 31-MAR-2017 06:02
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

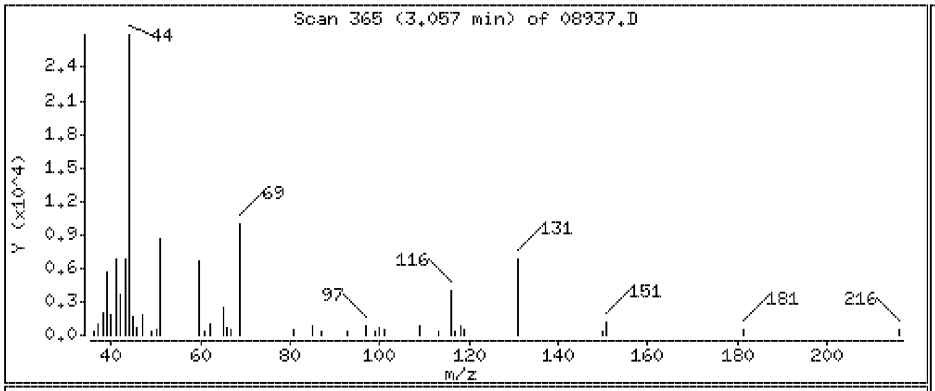
Operator: NCK

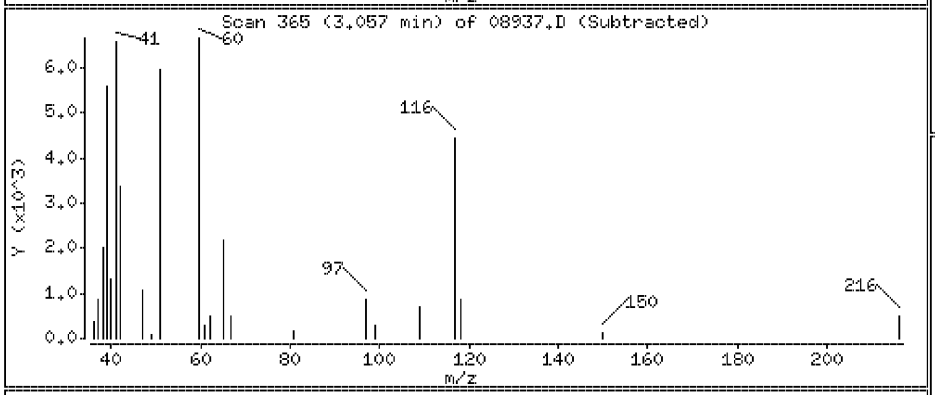
Column phase: J&W DB-5

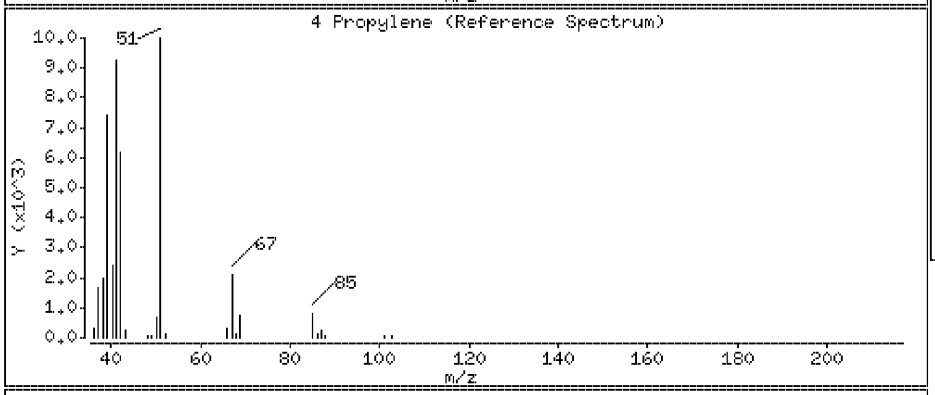
Column diameter: 0.32

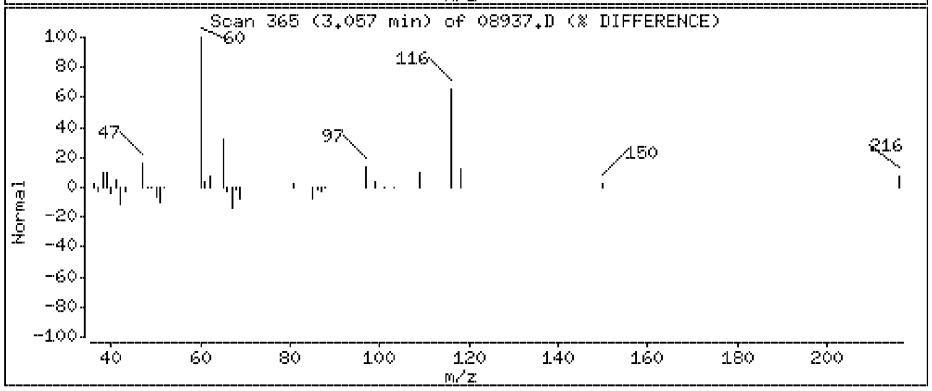
4 Propylene

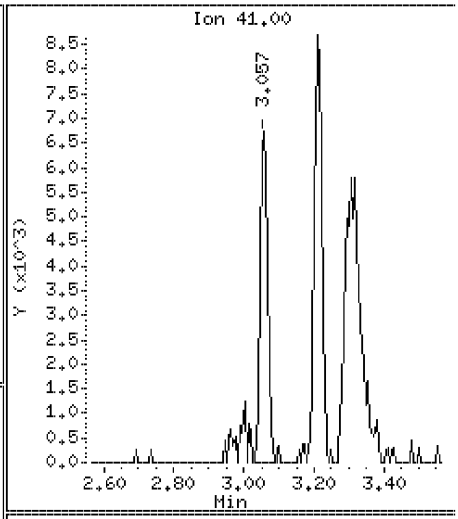
Concentration: 0.359 ppbv

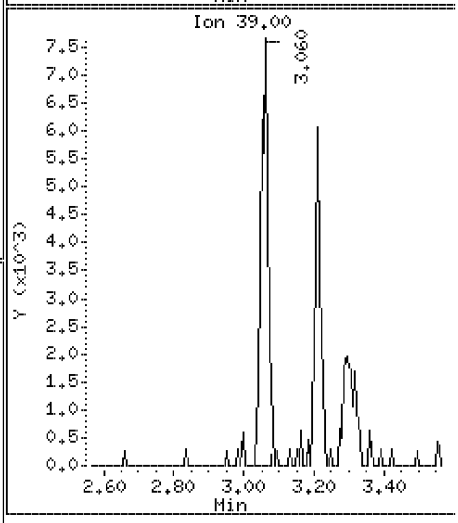












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

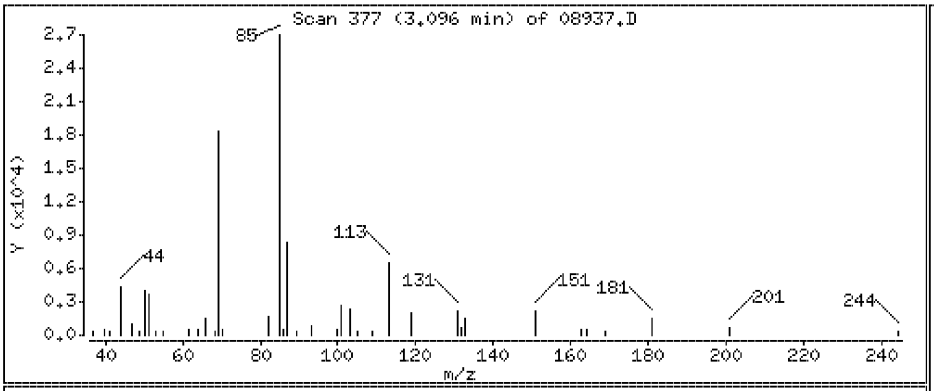
Operator: NCK

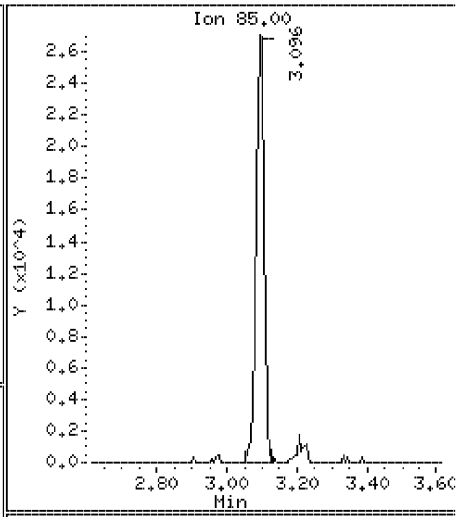
Column phase: J&W DB-5

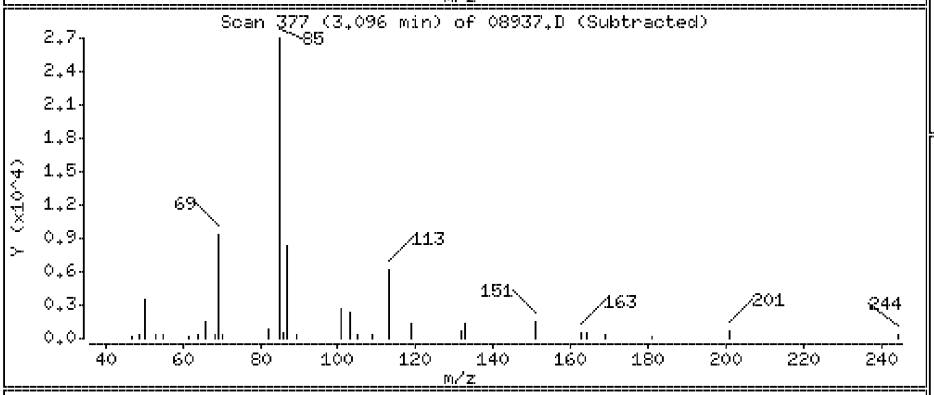
Column diameter: 0.32

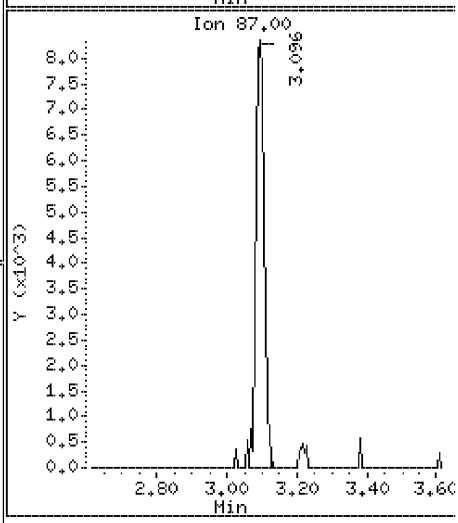
5 Dichlorodifluoromethane

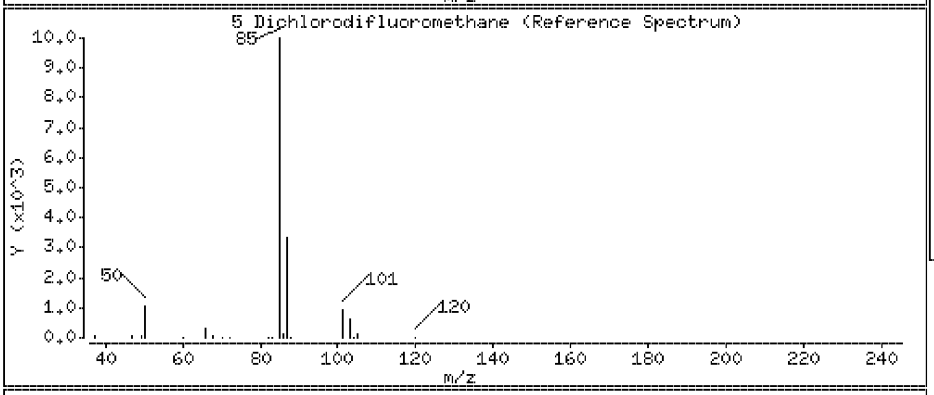
Concentration: 0.449 ppbv

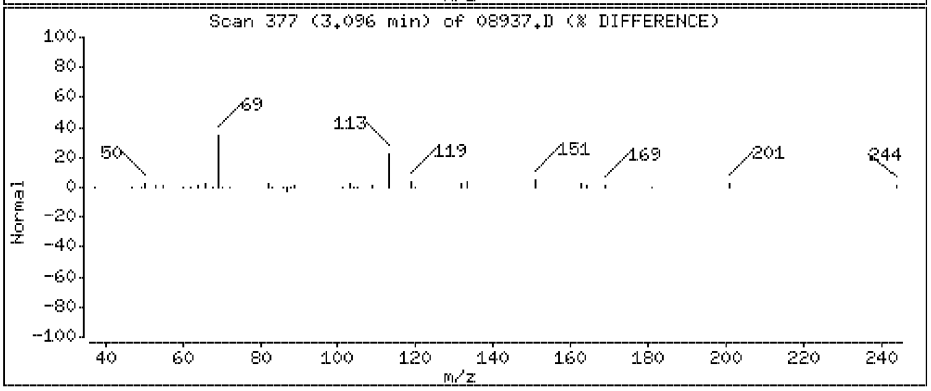












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

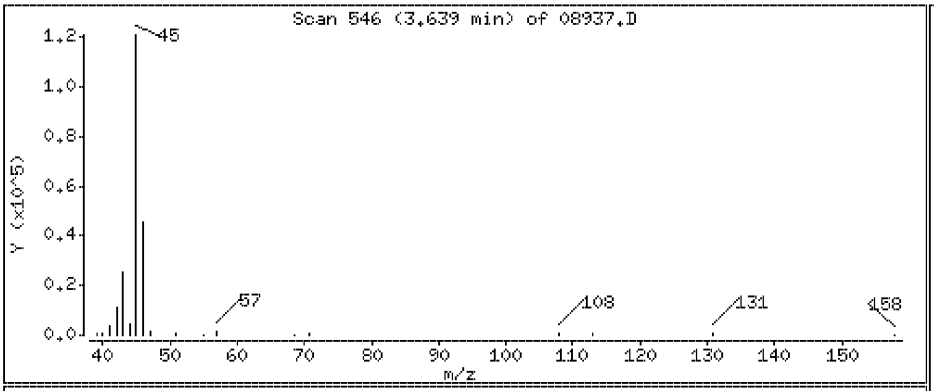
Operator: NCK

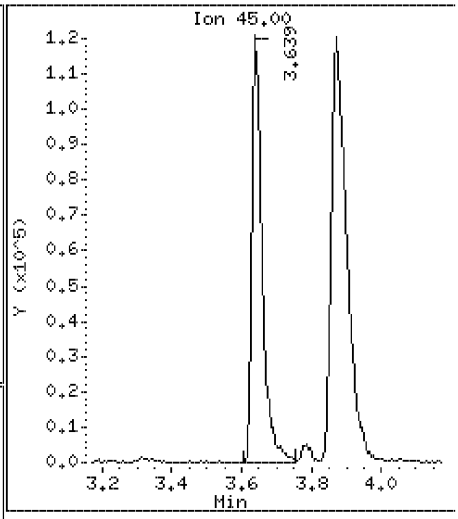
Column phase: J&W DB-5

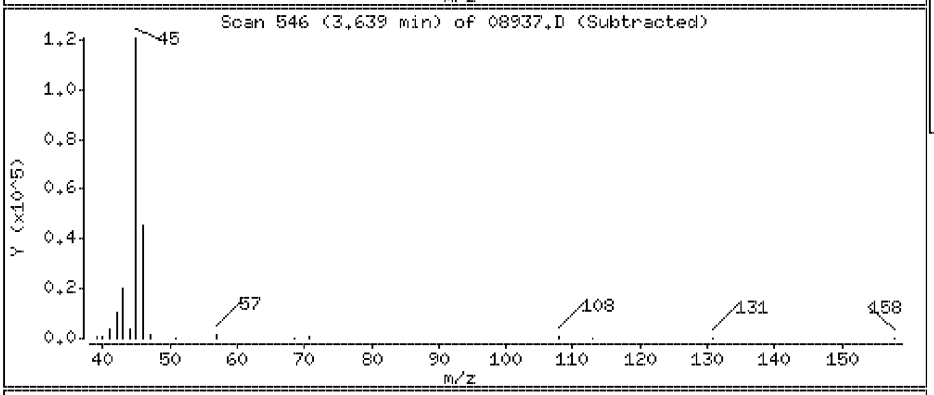
Column diameter: 0.32

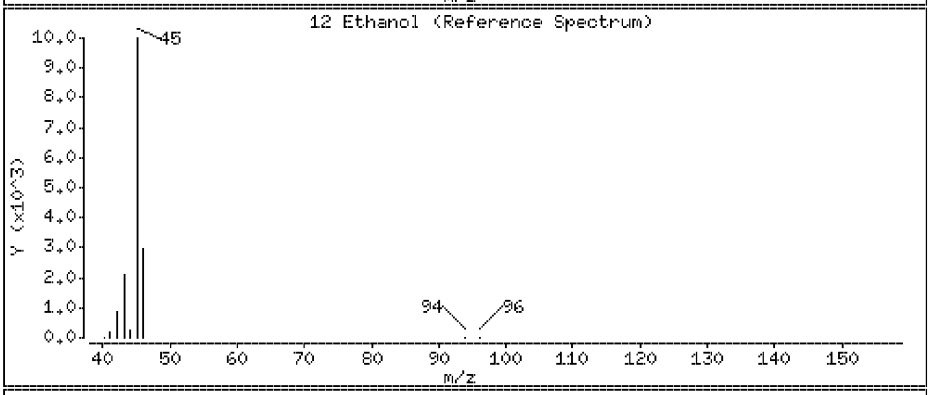
12 Ethanol

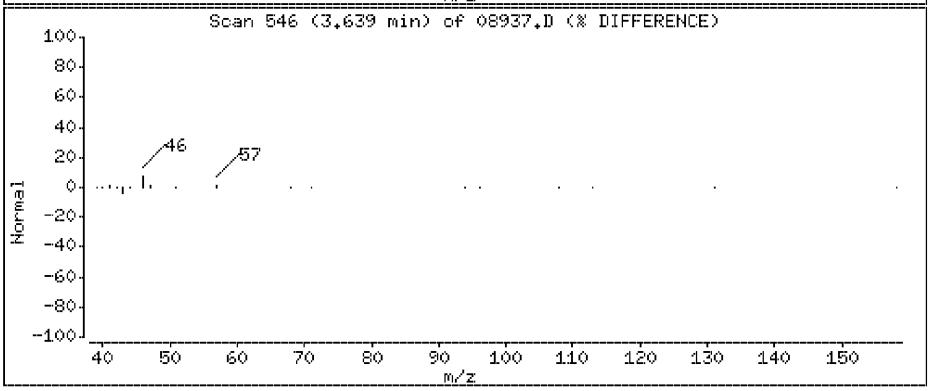
Concentration: 19.6 ppbv











Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

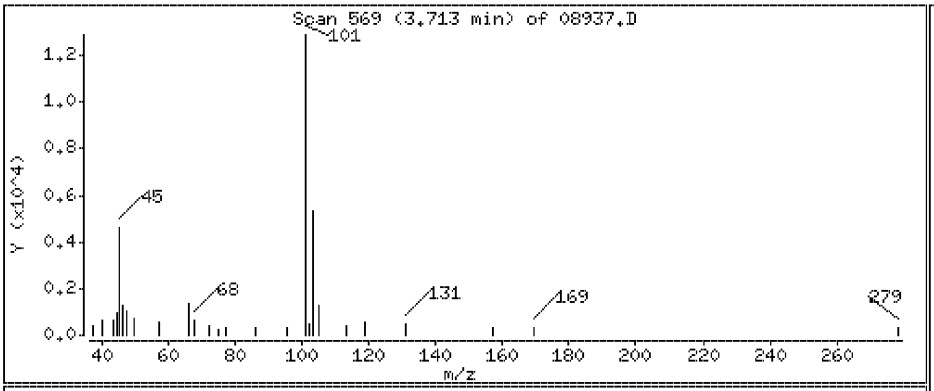
Operator: NCK

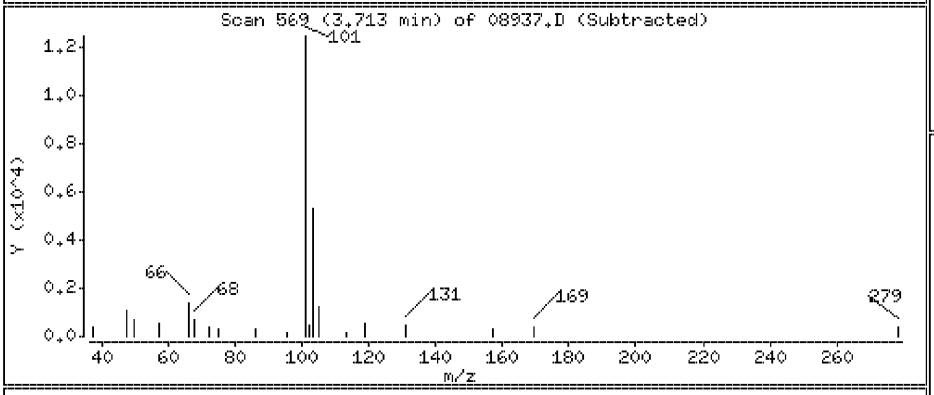
Column phase: J&W DB-5

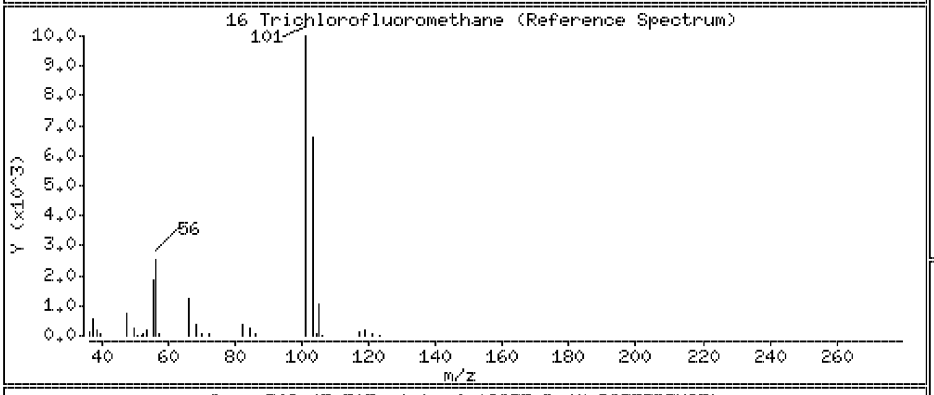
Column diameter: 0.32

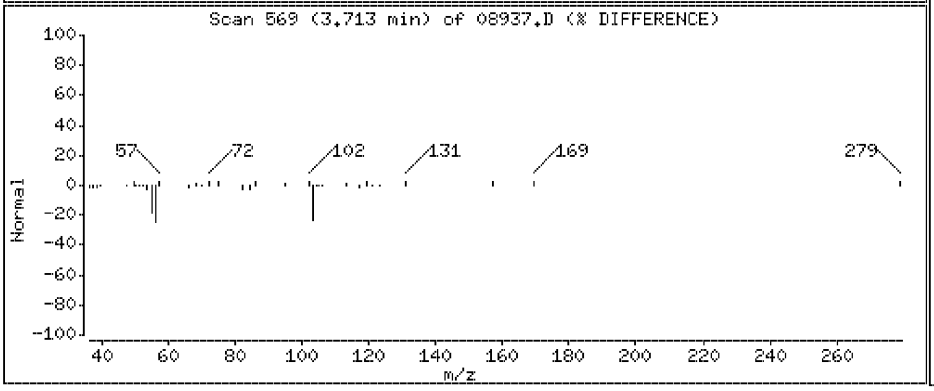
16 Trichlorofluoromethane

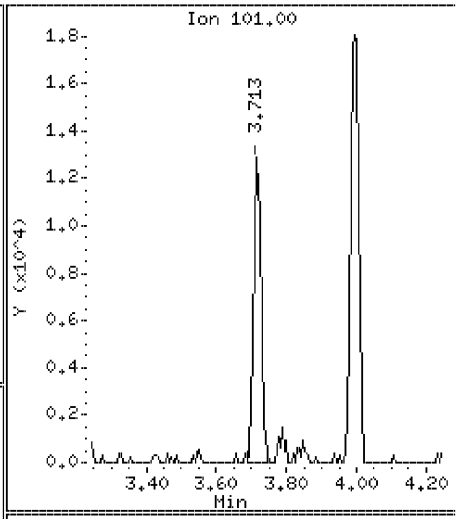
Concentration: 0.286 ppbv

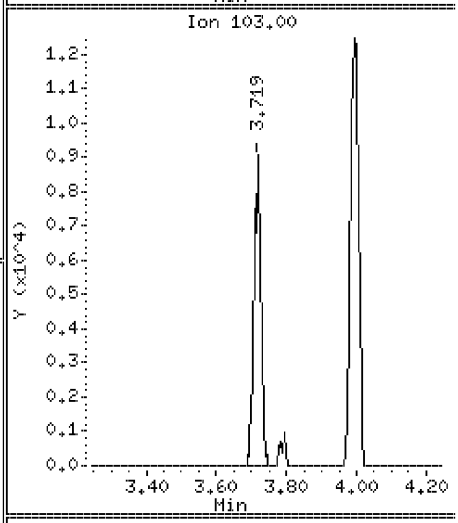


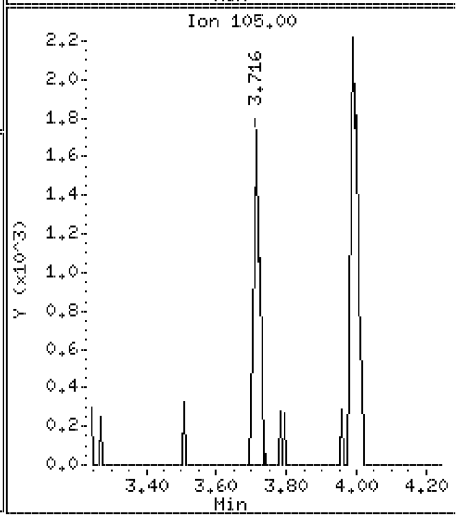












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

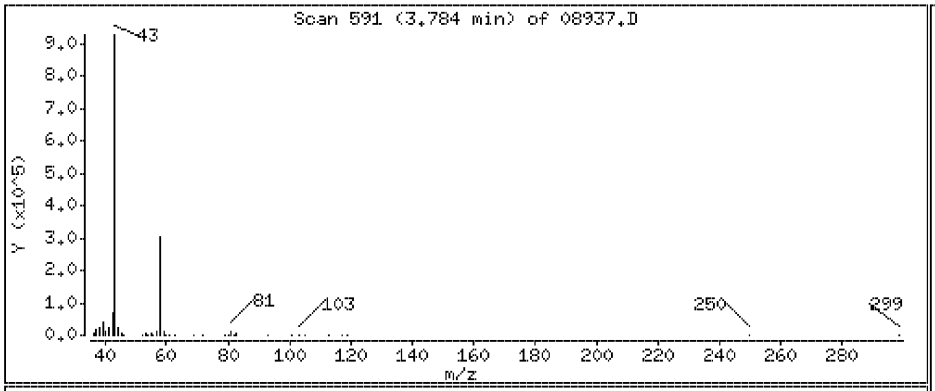
Operator: NCK

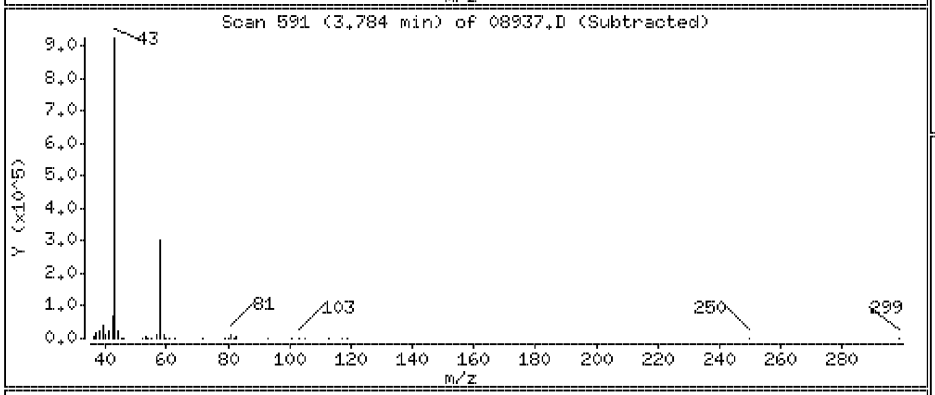
Column phase: J&W DB-5

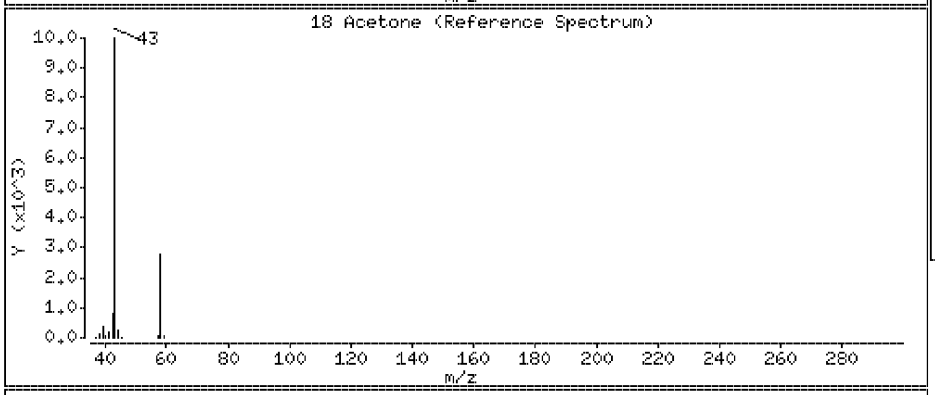
Column diameter: 0.32

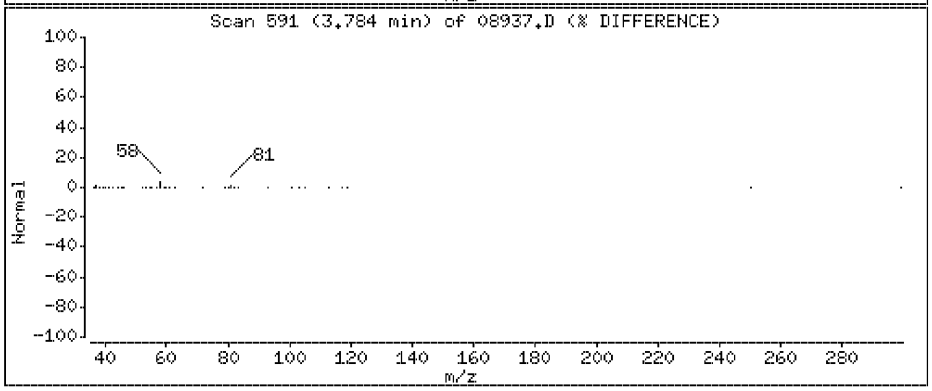
18 Acetone

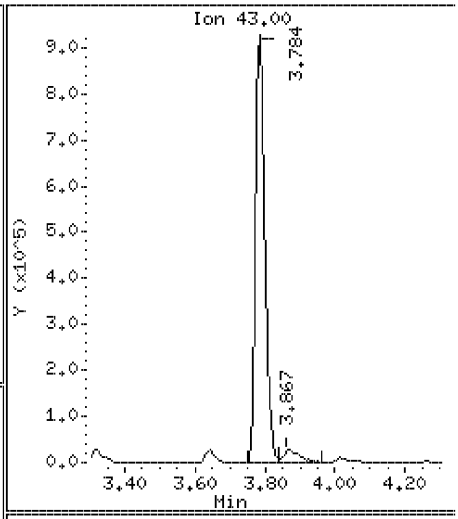
Concentration: 36.5 ppbv

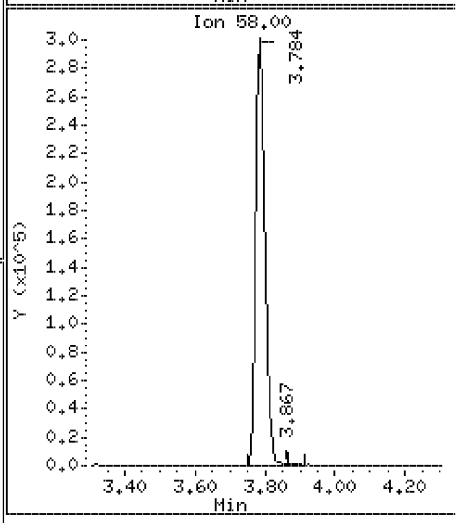












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

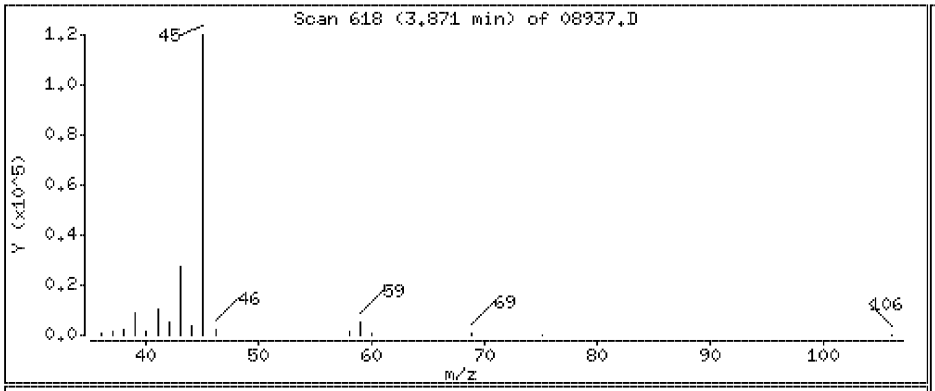
Operator: NCK

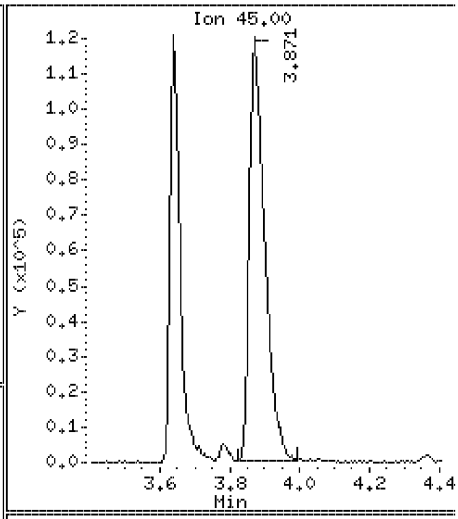
Column phase: J&W DB-5

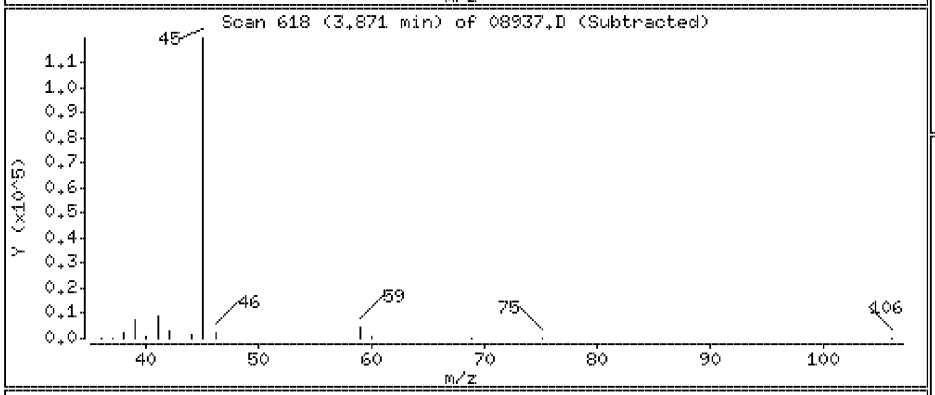
Column diameter: 0.32

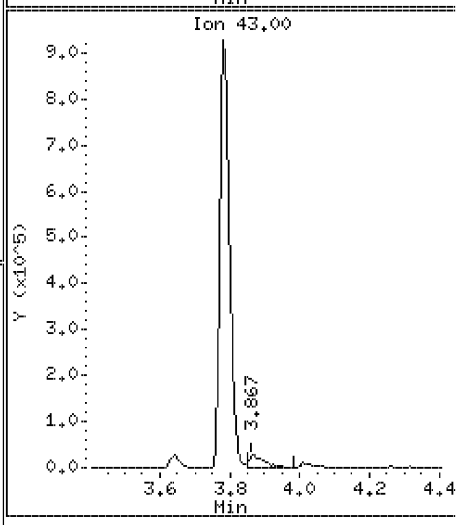
19 Isopropyl Alcohol

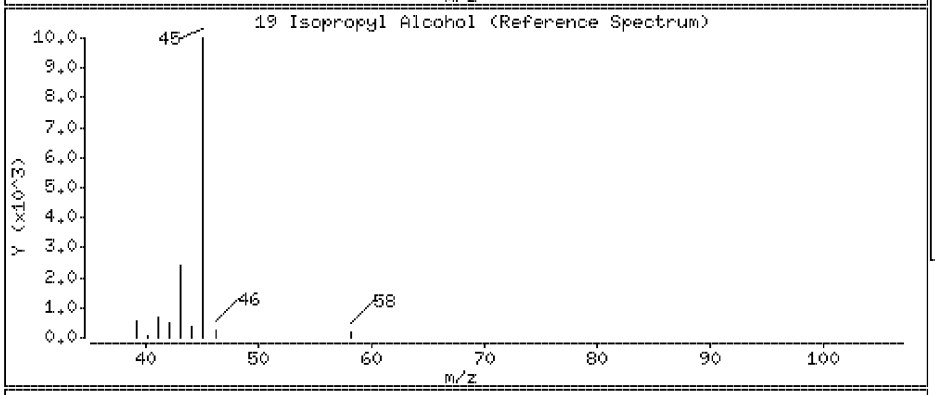
Concentration: 7.13 ppbv

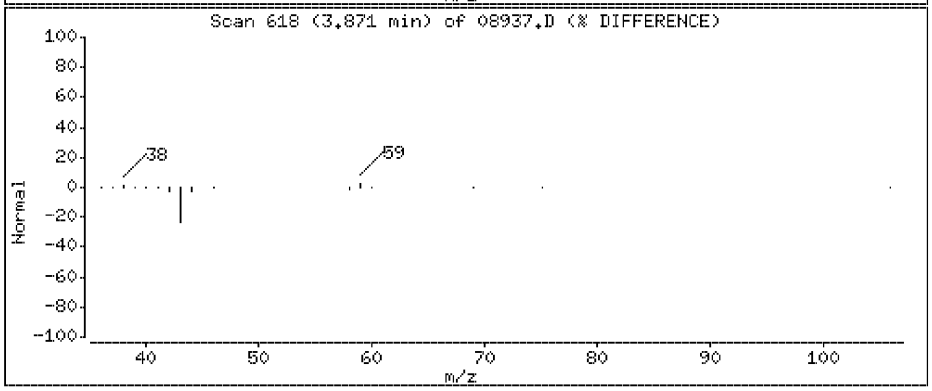












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

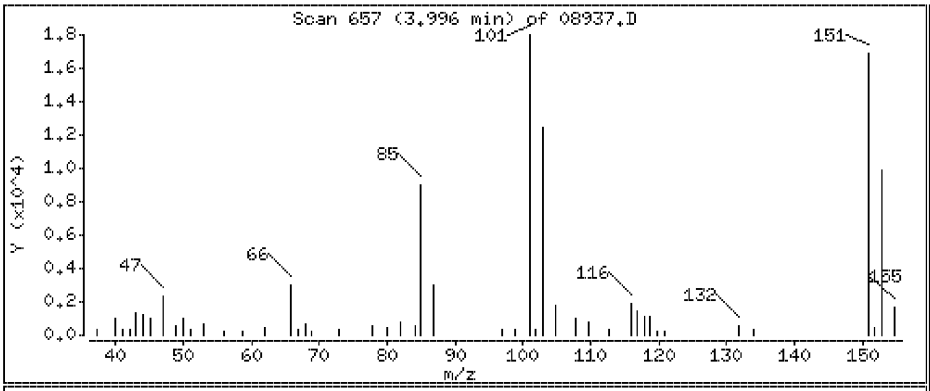
Operator: NCK

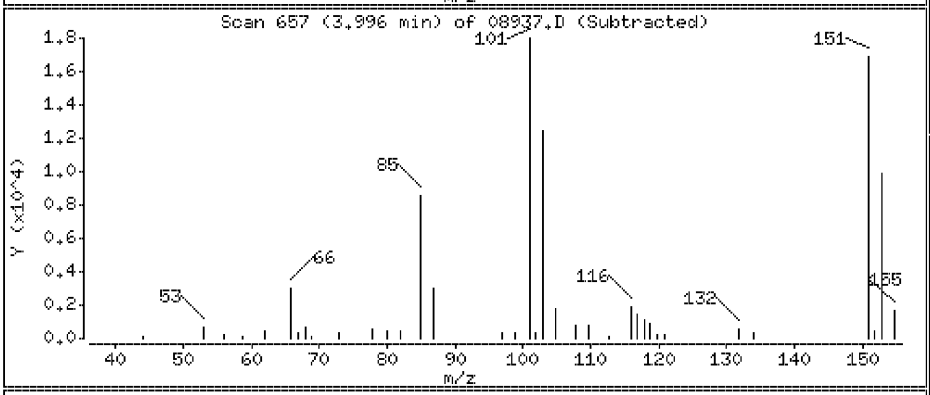
Column phase: J&W DB-5

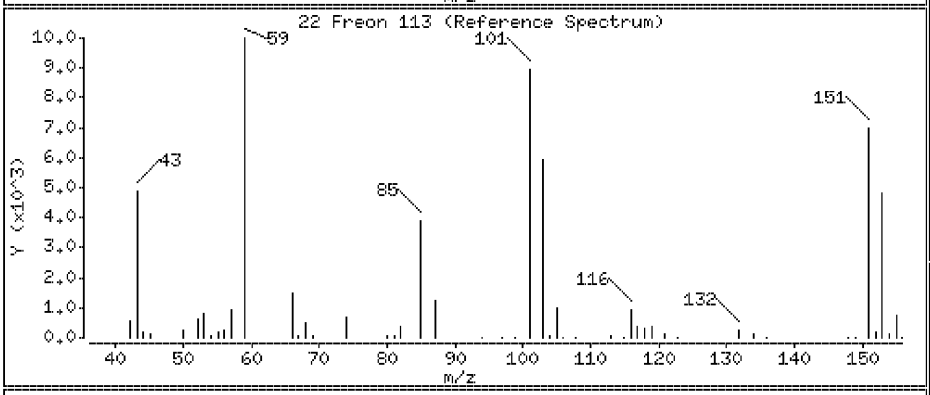
Column diameter: 0.32

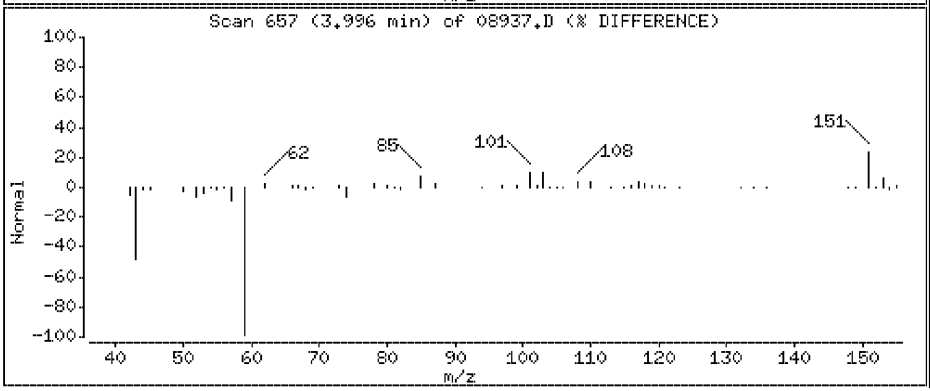
22 Freon 113

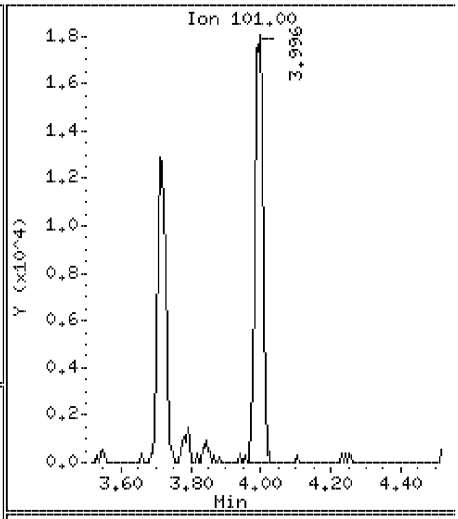
Concentration: 0.553 ppbv

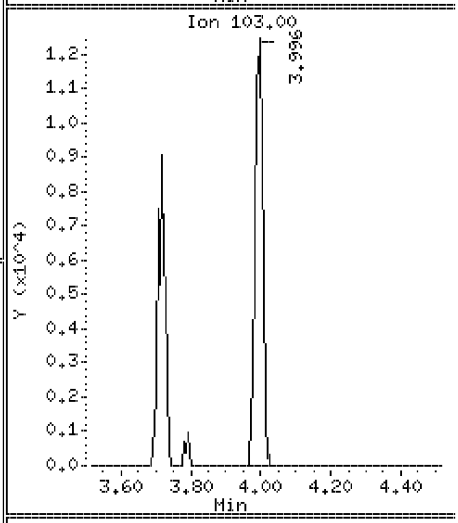


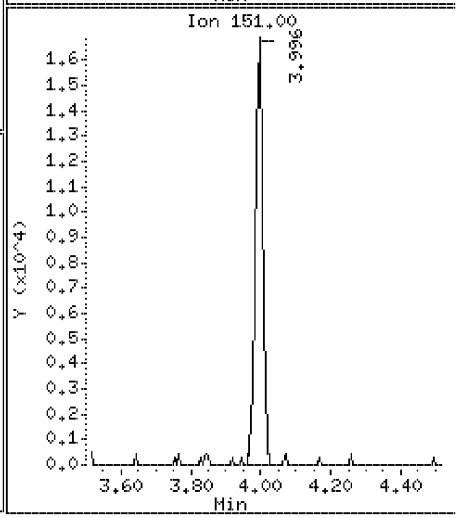












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

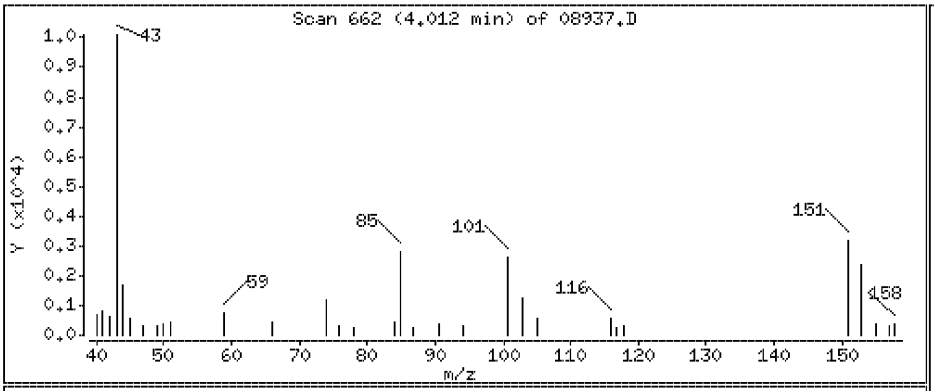
Operator: NCK

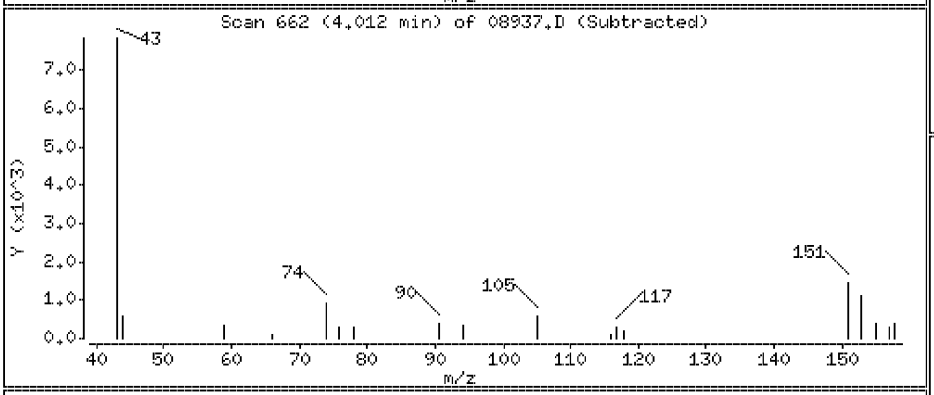
Column phase: J&W DB-5

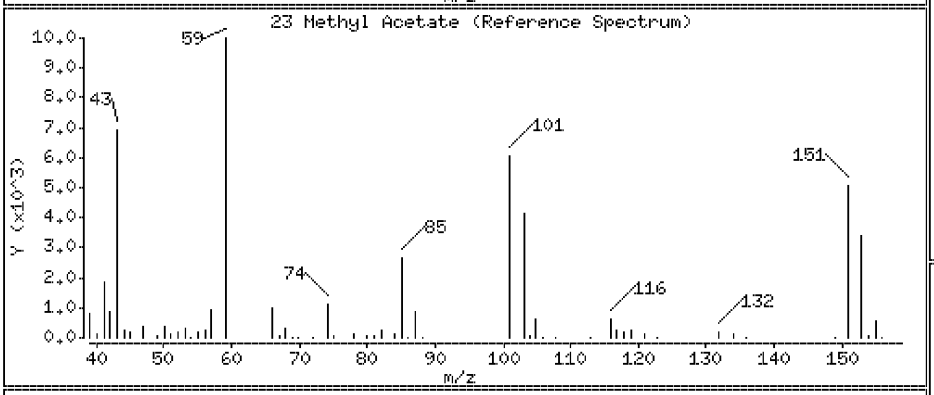
Column diameter: 0.32

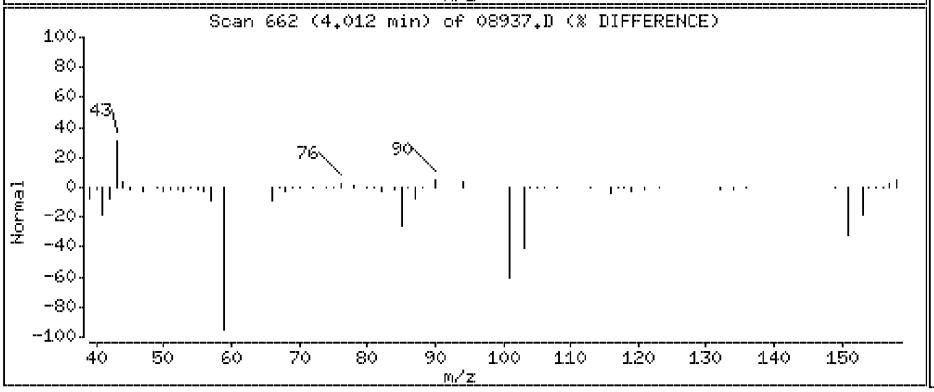
23 Methyl Acetate

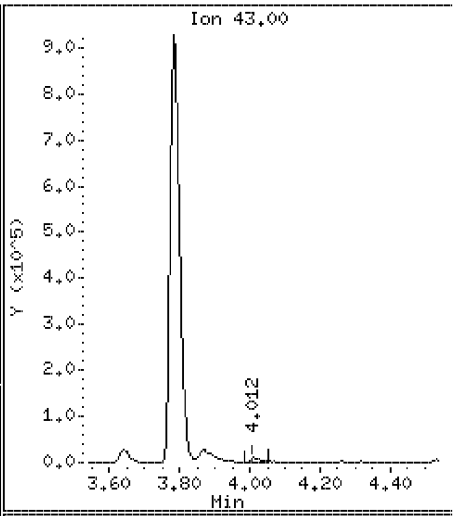
Concentration: 0.242 ppbv

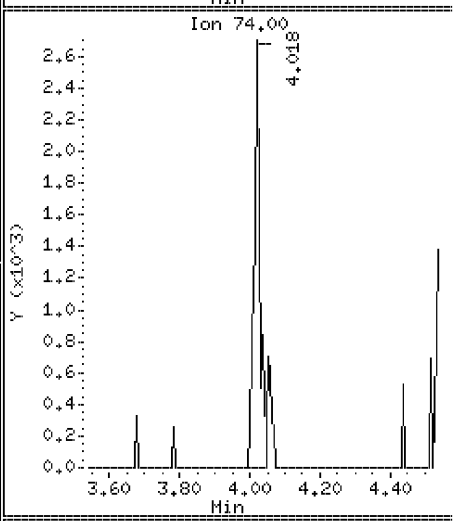


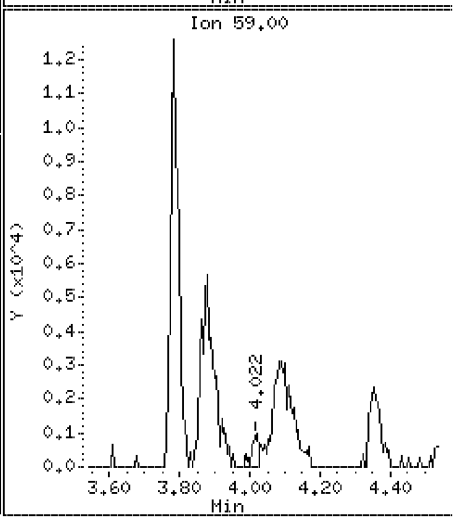












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

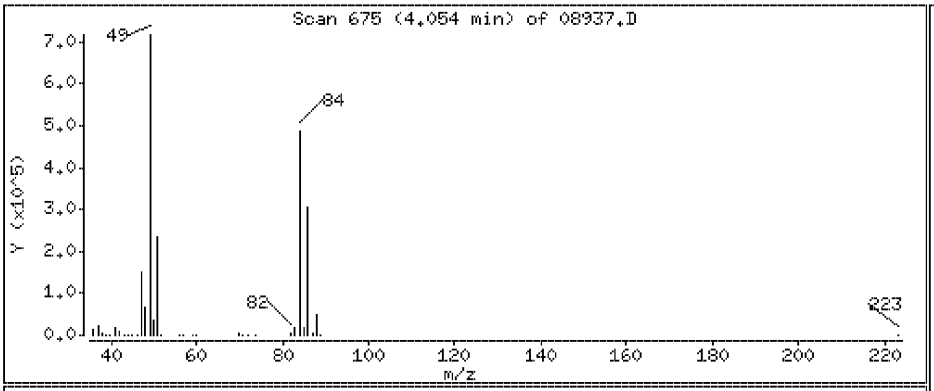
Operator: NCK

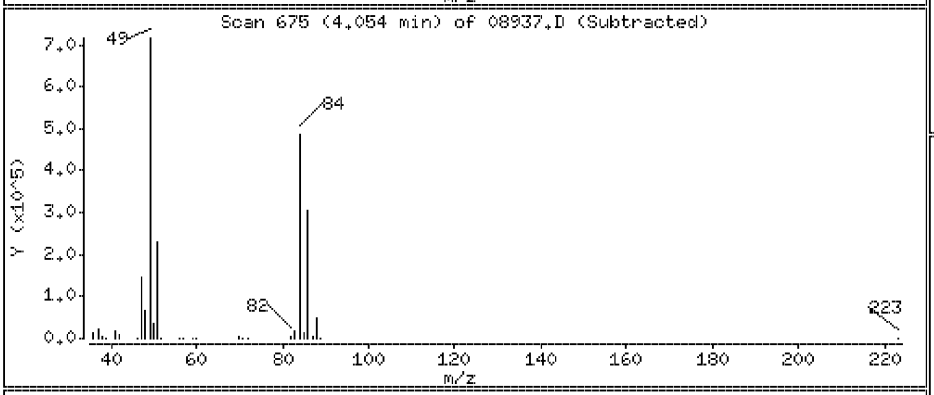
Column phase: J&W DB-5

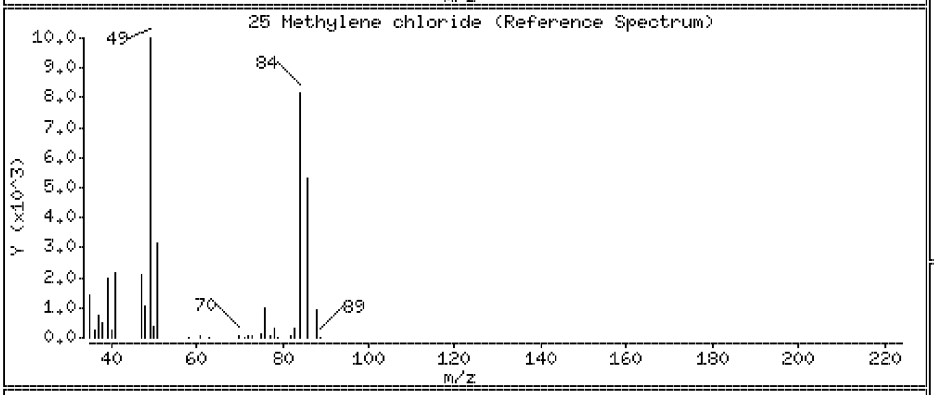
Column diameter: 0.32

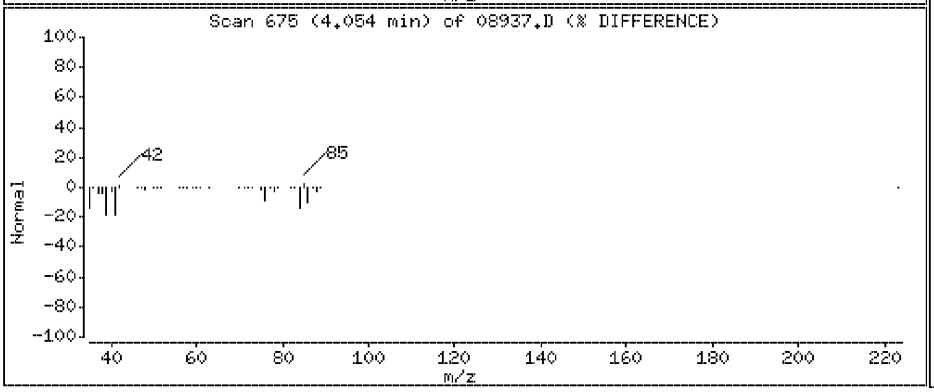
25 Methylene chloride

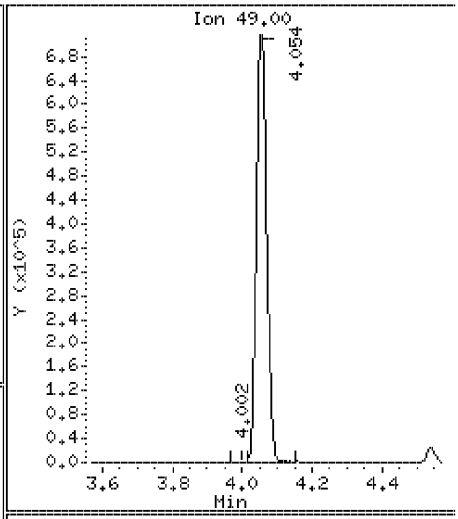
Concentration: 40.5 ppbv

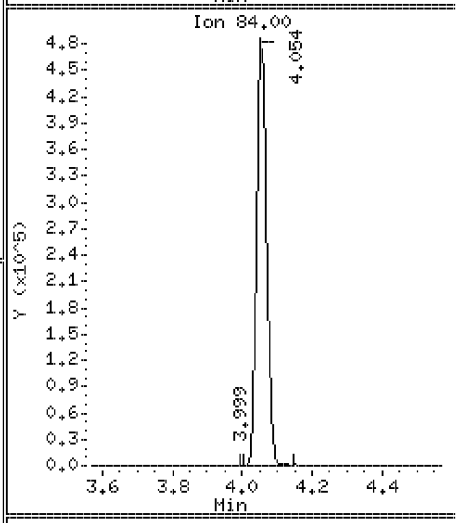


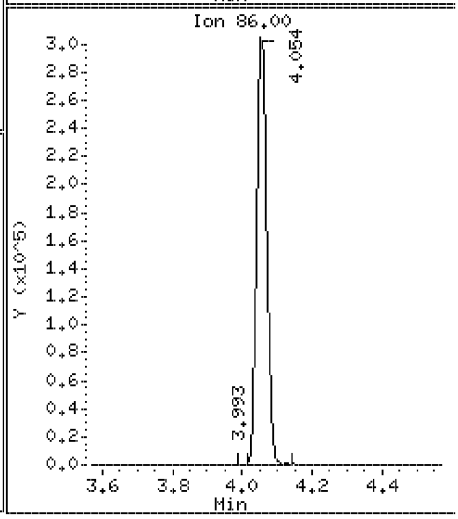












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

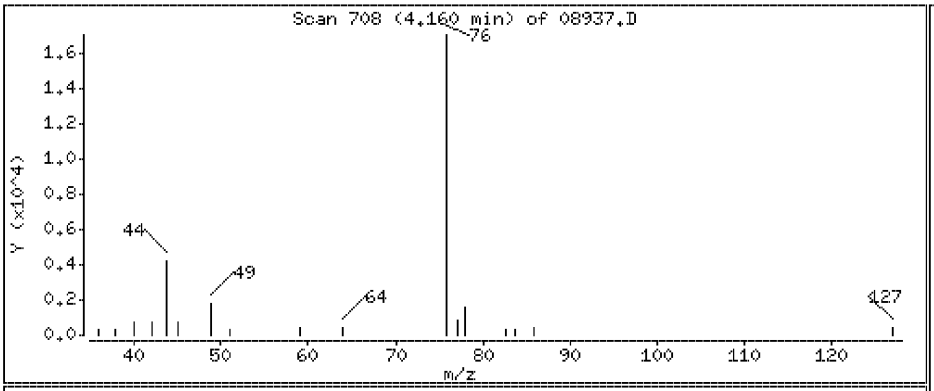
Operator: NCK

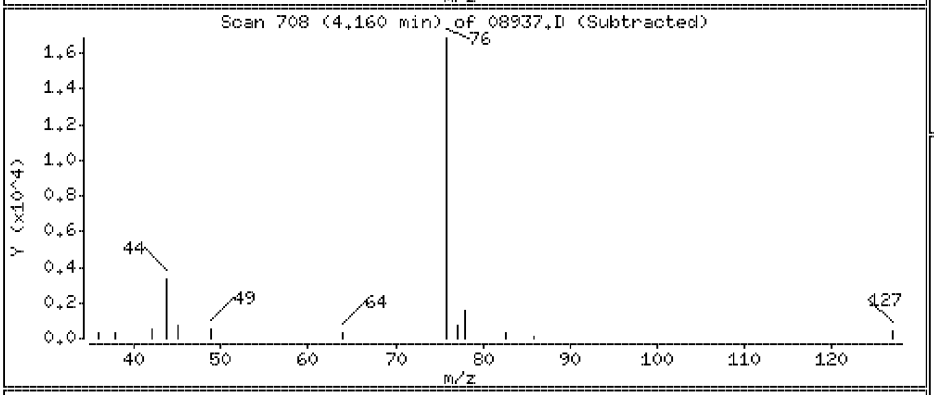
Column phase: J&W DB-5

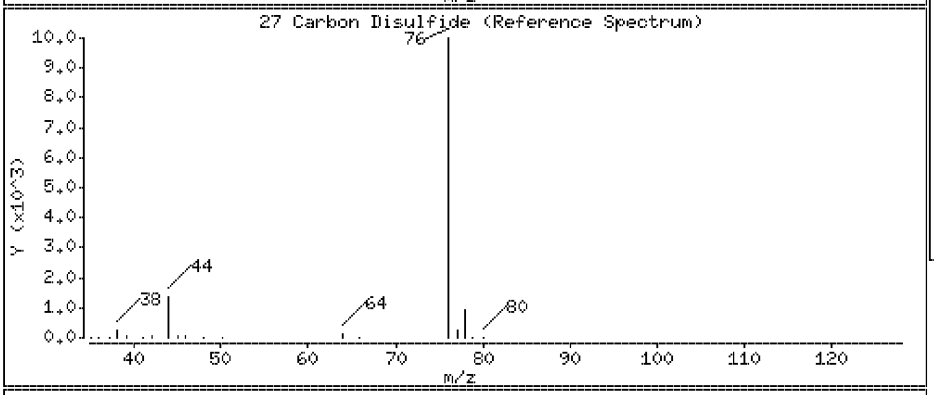
Column diameter: 0.32

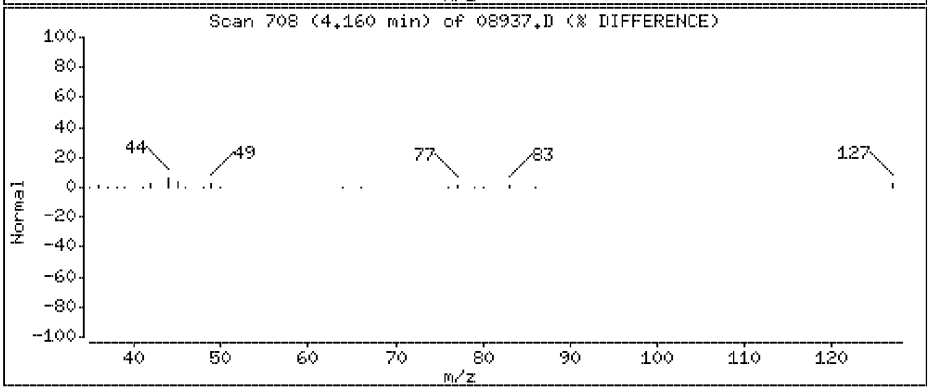
27 Carbon Disulfide

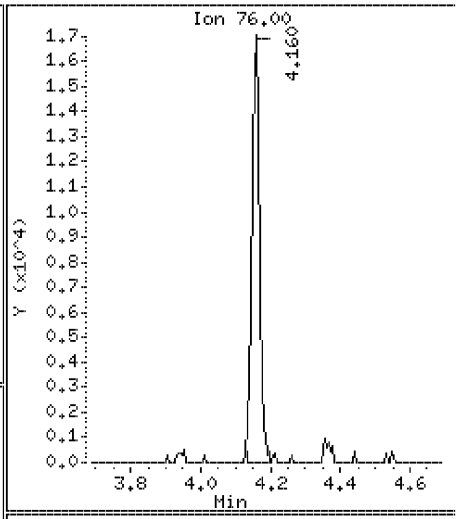
Concentration: 0.517 ppbv

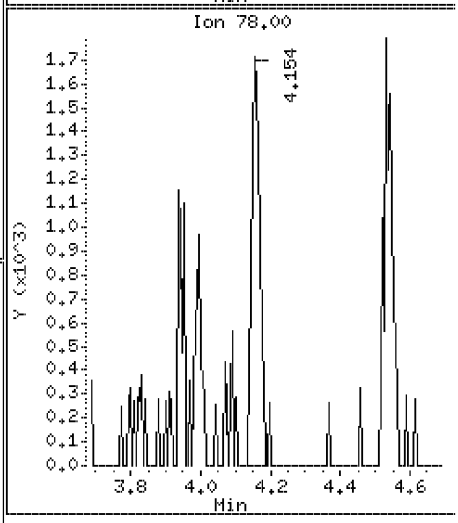












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

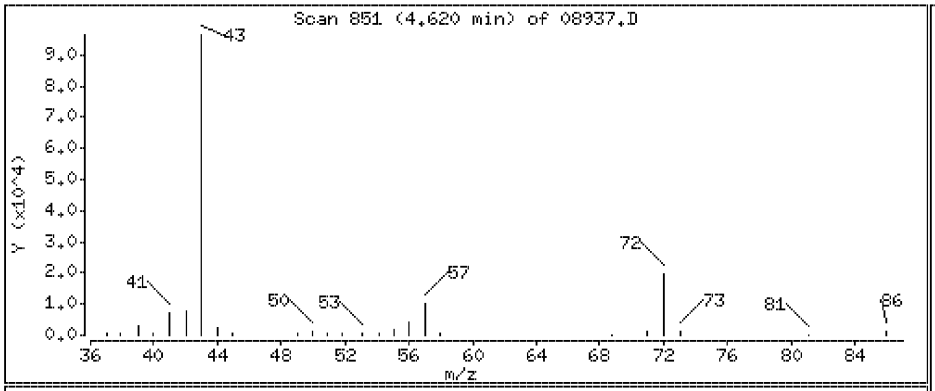
Operator: NCK

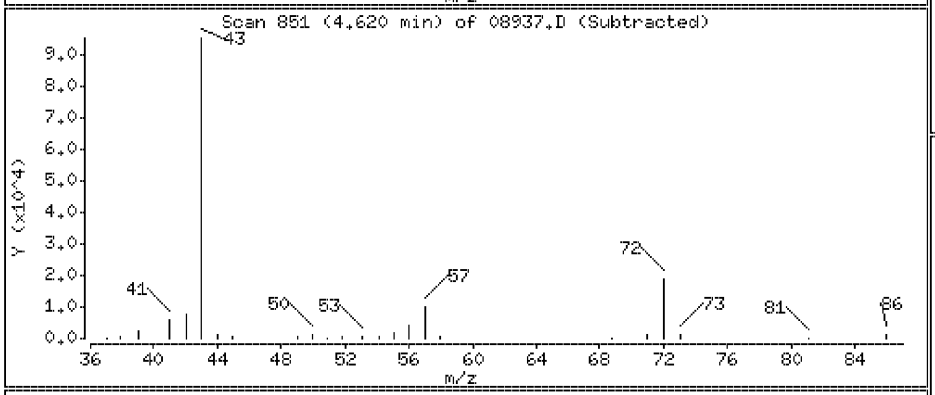
Column phase: J&W DB-5

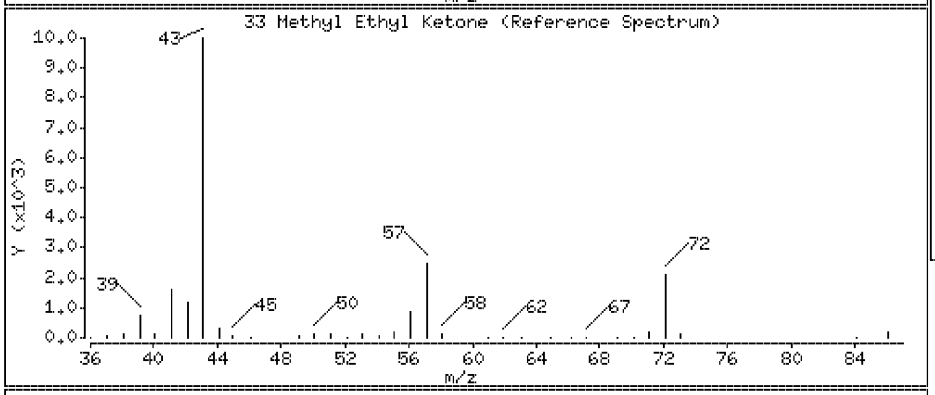
Column diameter: 0.32

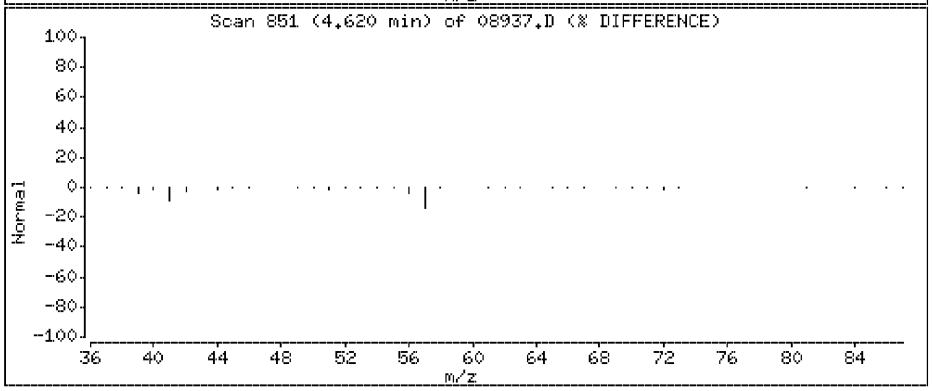
33 Methyl Ethyl Ketone

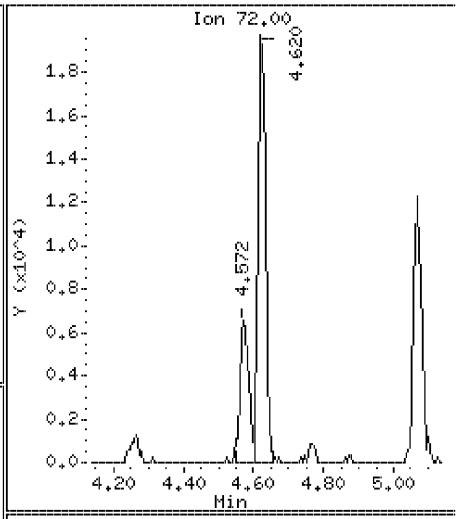
Concentration: 2.25 ppbv

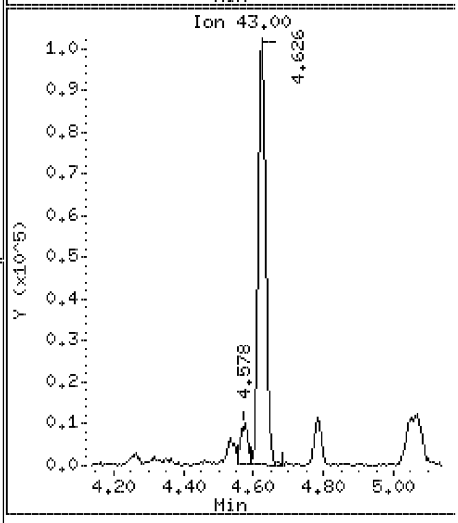












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

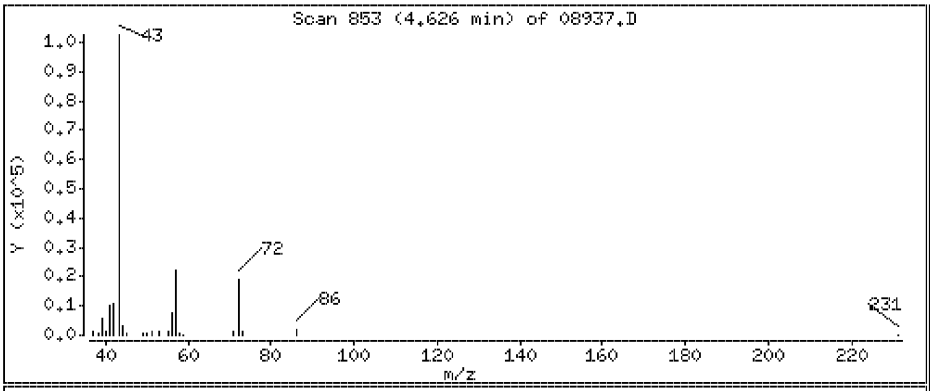
Operator: NCK

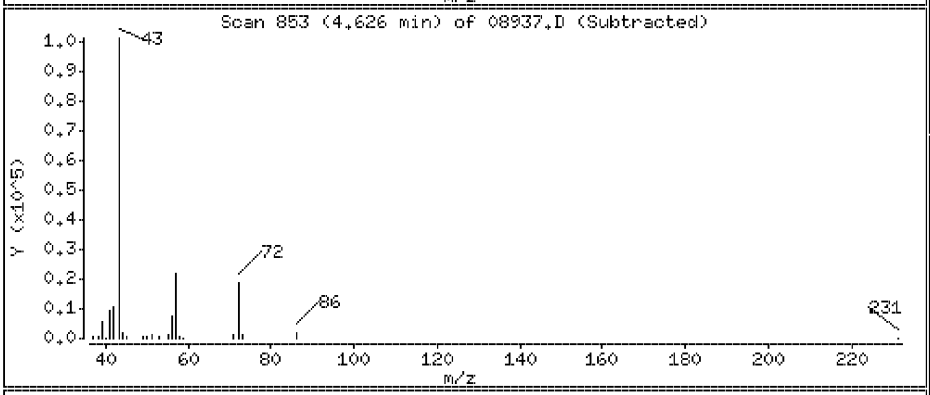
Column phase: J&W DB-5

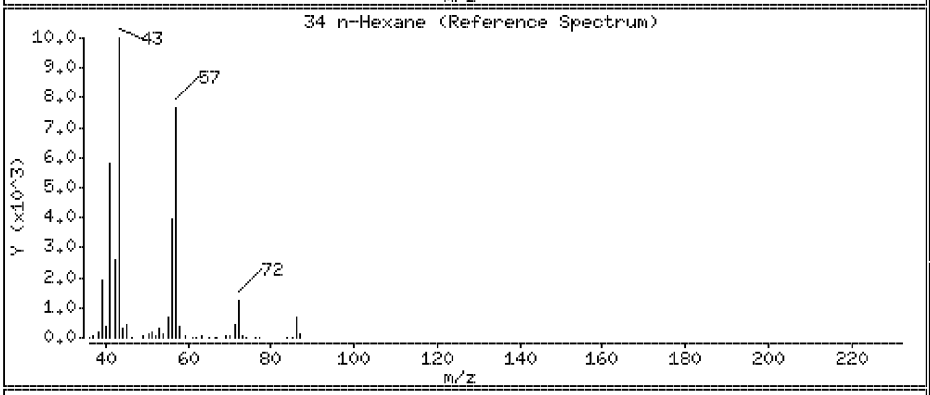
Column diameter: 0.32

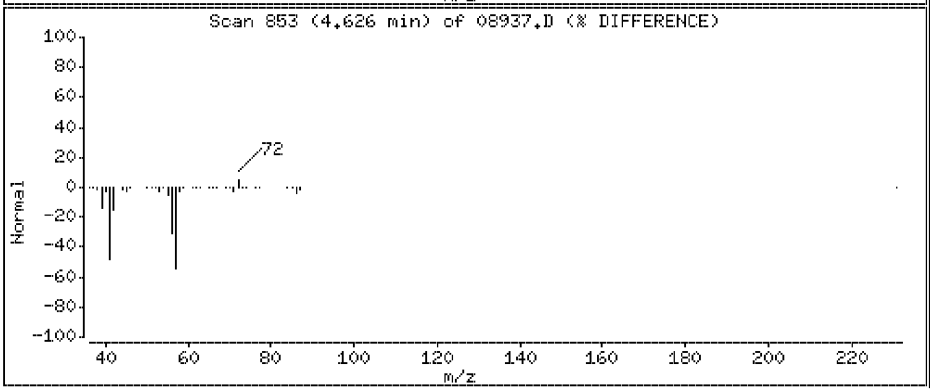
34 n-Hexane

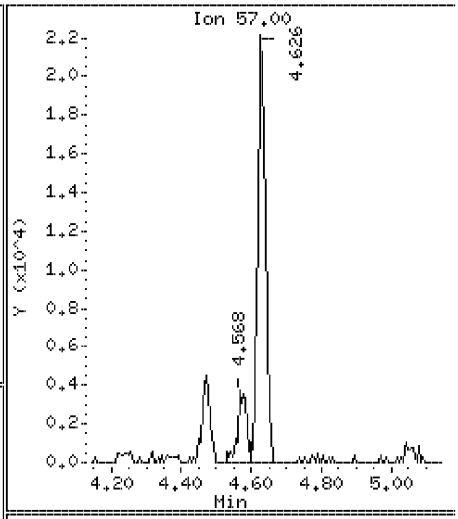
Concentration: 0.645 ppbv

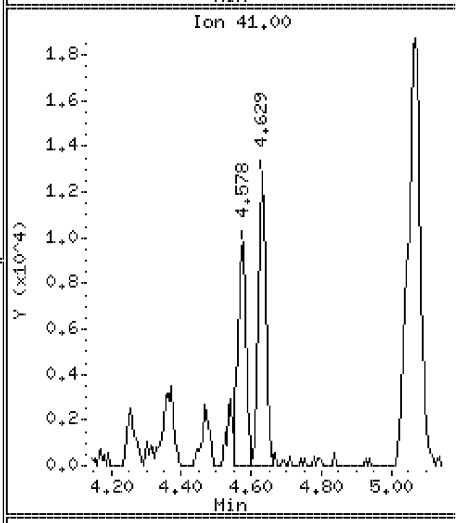


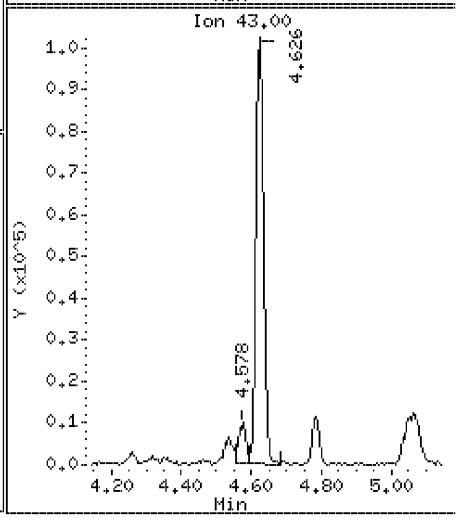












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

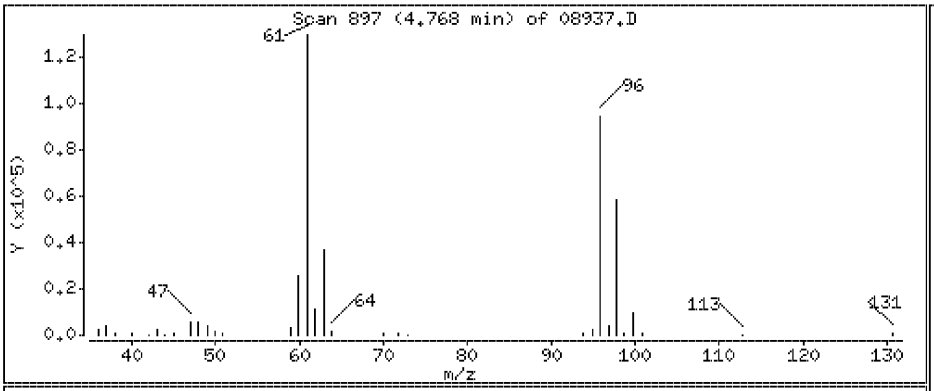
Operator: NCK

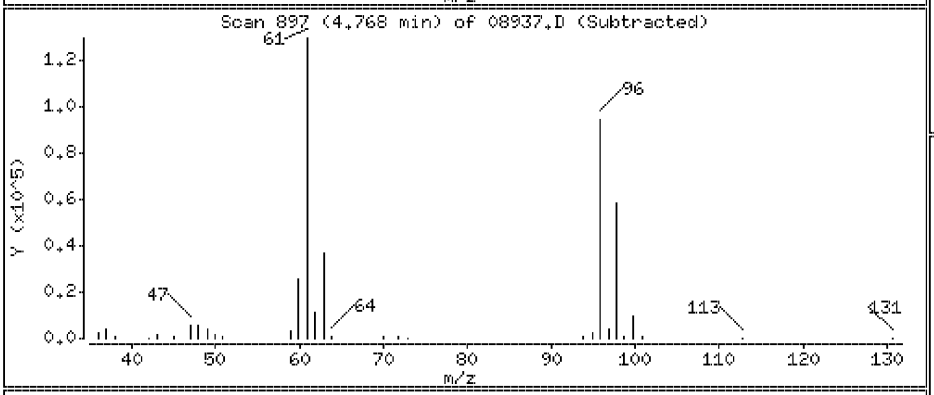
Column phase: J&W DB-5

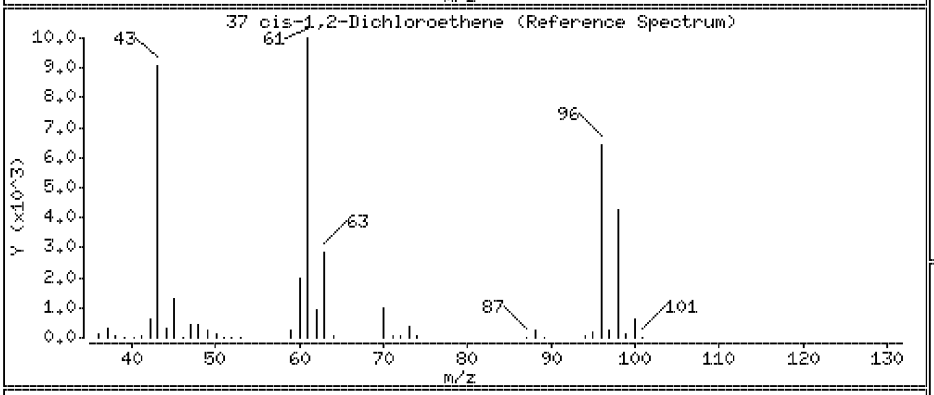
Column diameter: 0.32

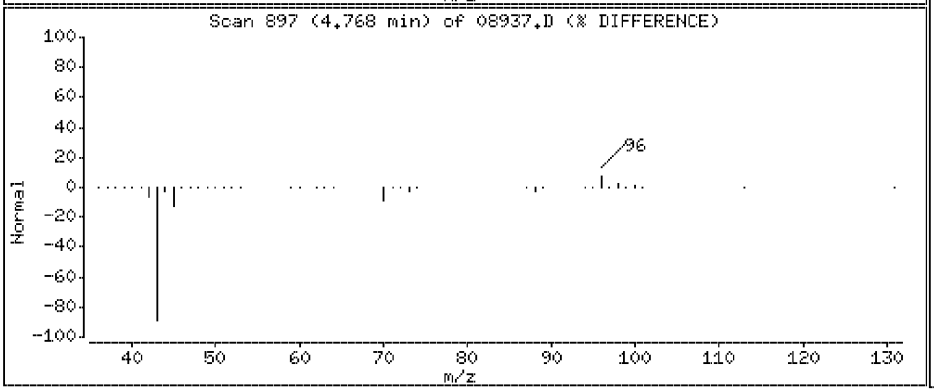
37 cis-1,2-Dichloroethene

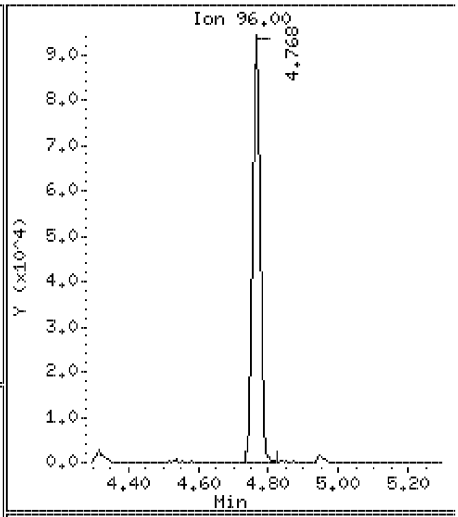
Concentration: 4.98 ppbv

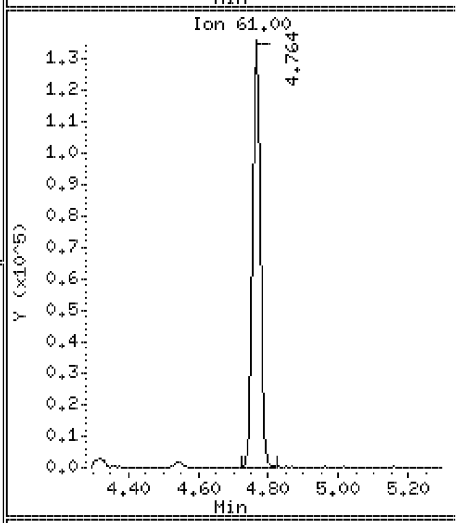


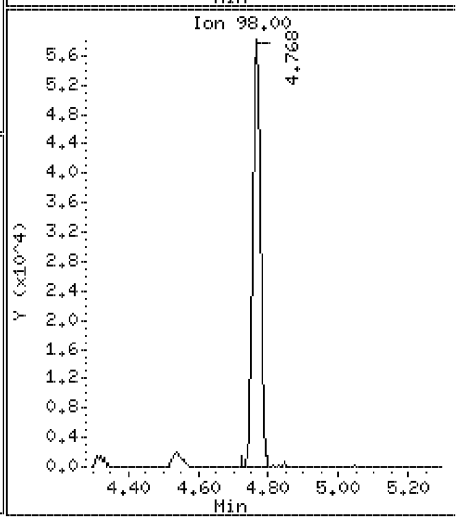












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

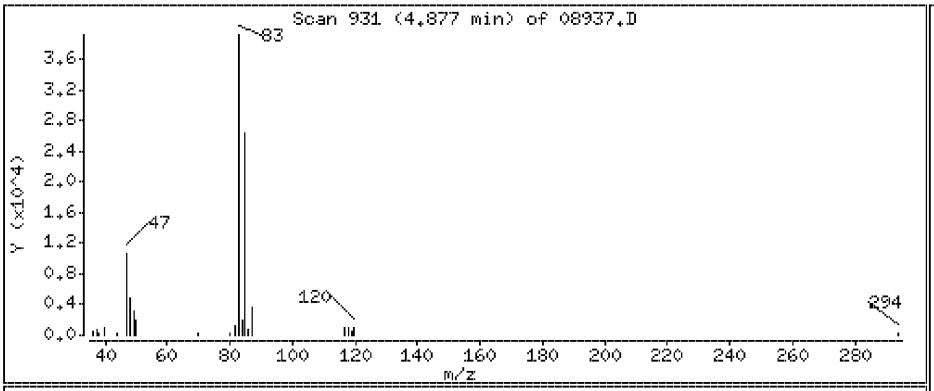
Operator: NCK

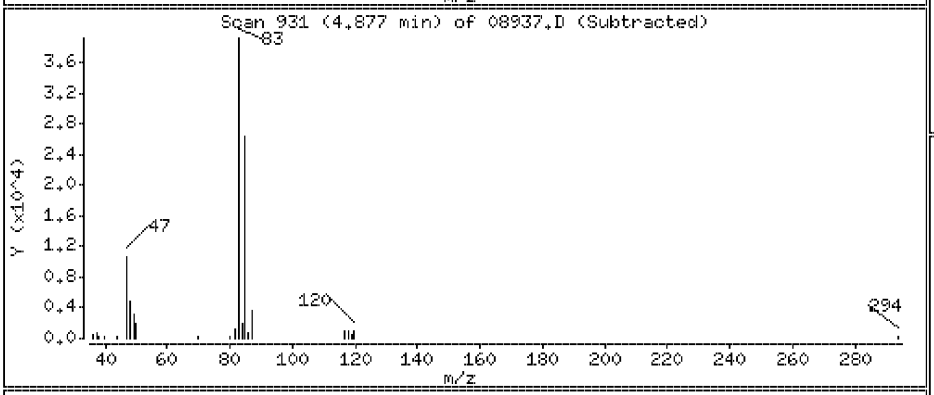
Column phase: J&W DB-5

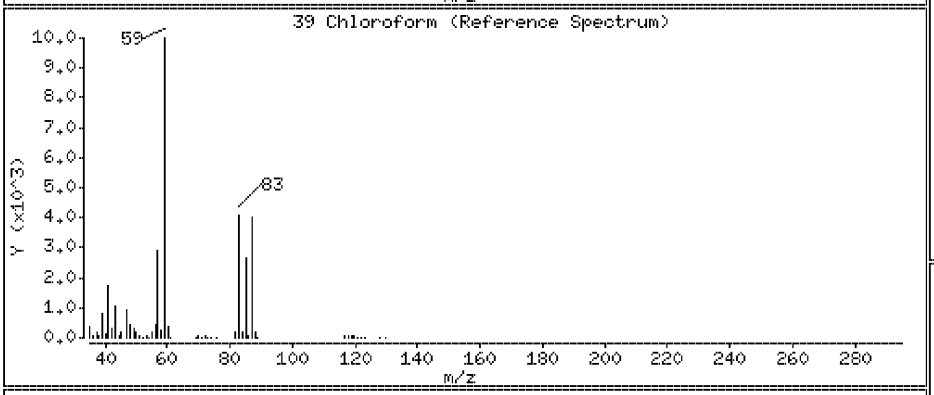
Column diameter: 0.32

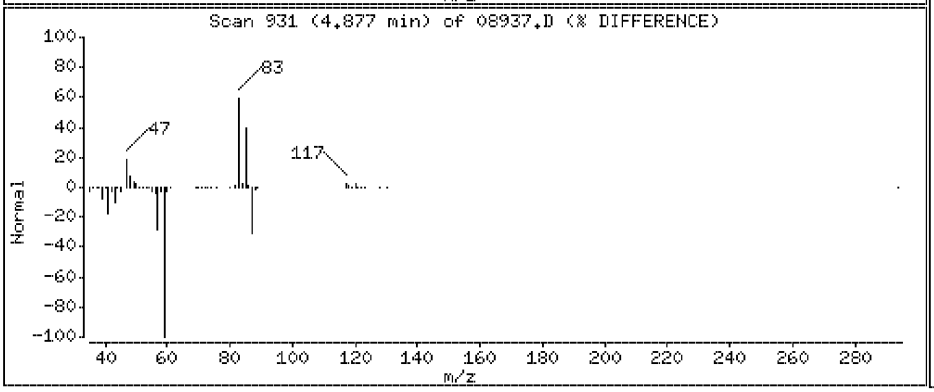
39 Chloroform

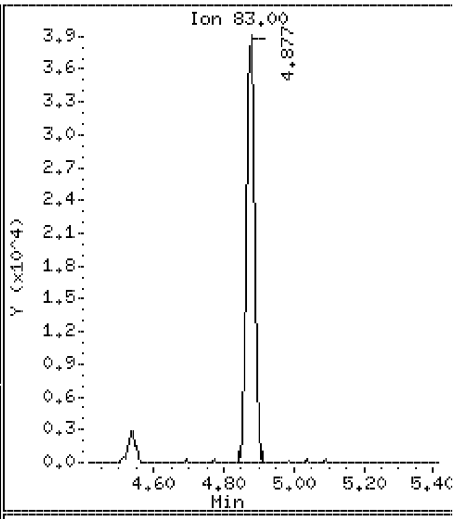
Concentration: 1.05 ppbv

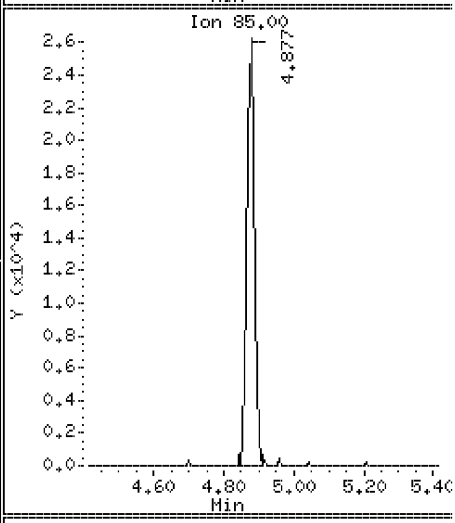


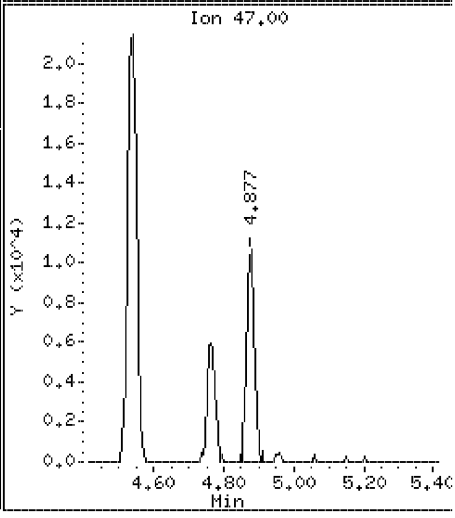












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

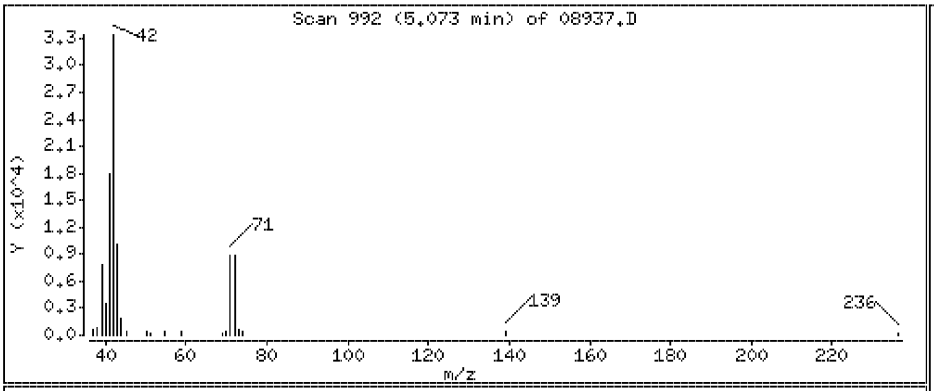
Operator: NCK

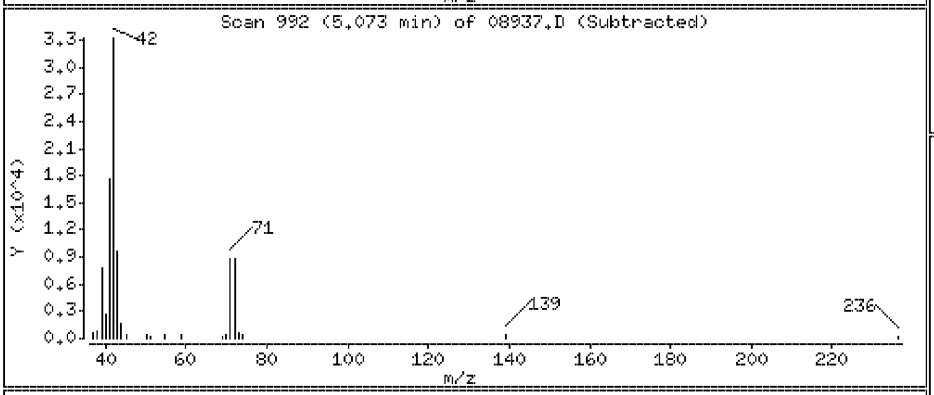
Column phase: J&W DB-5

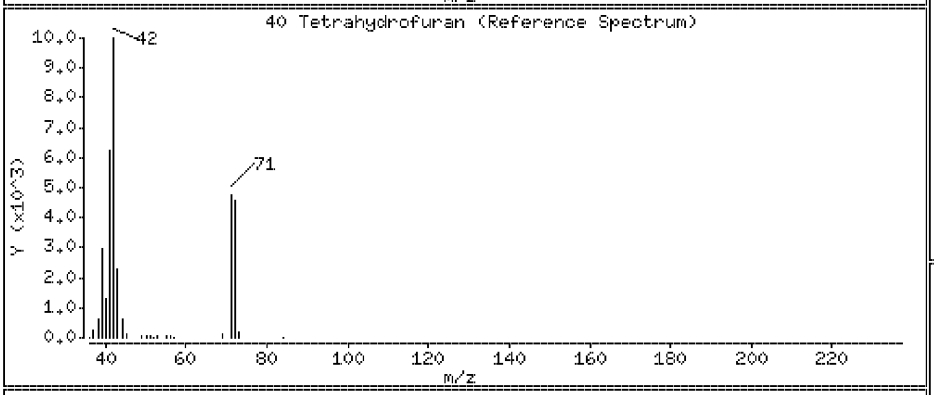
Column diameter: 0.32

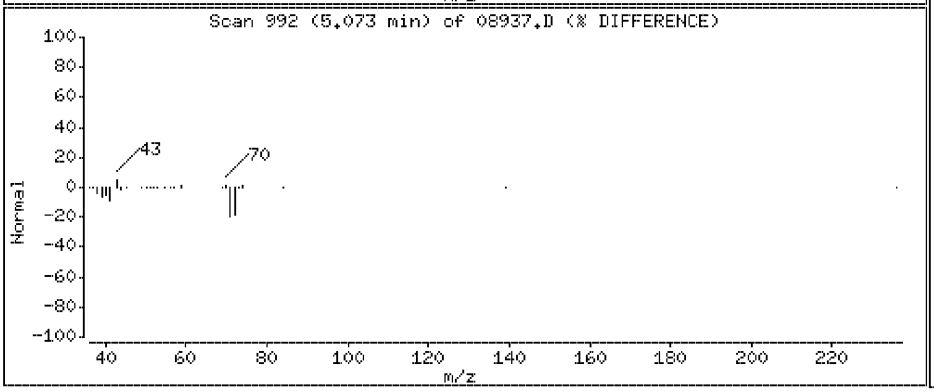
40 Tetrahydrofuran

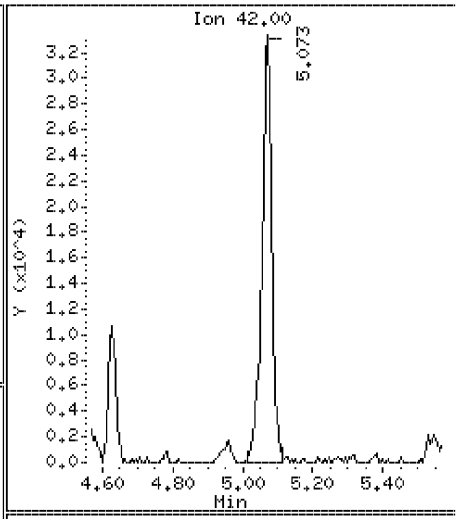
Concentration: 1.65 ppbv

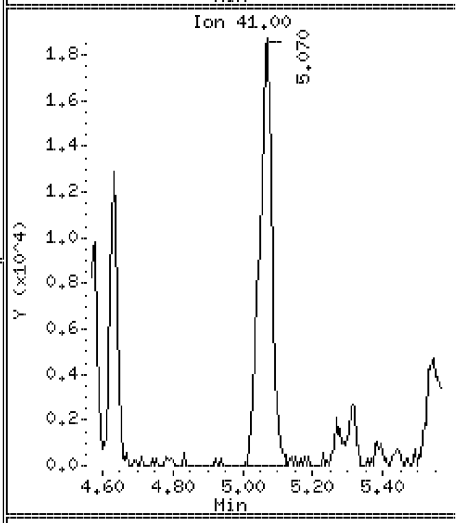


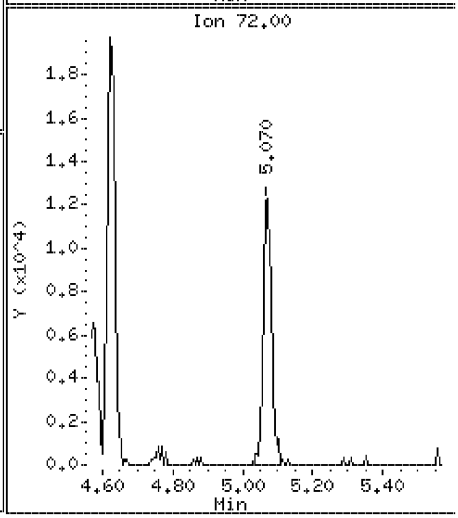












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

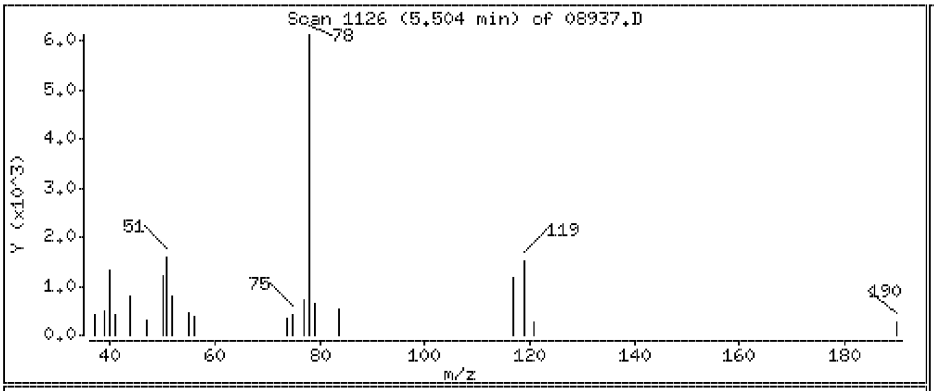
Operator: NCK

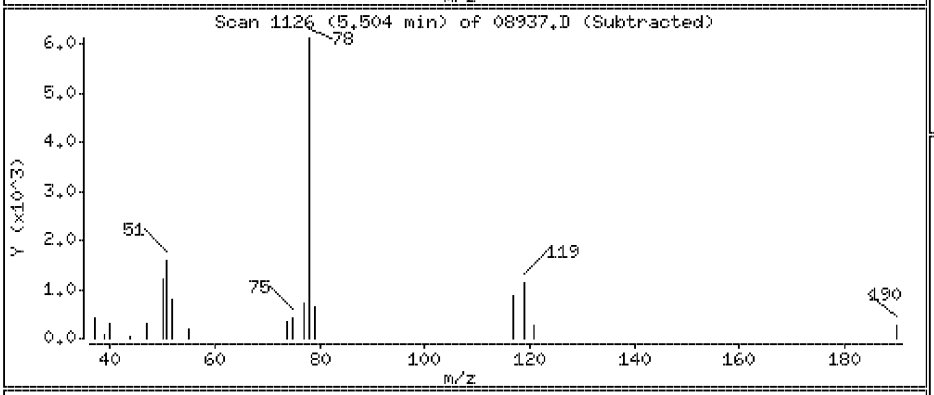
Column phase: J&W DB-5

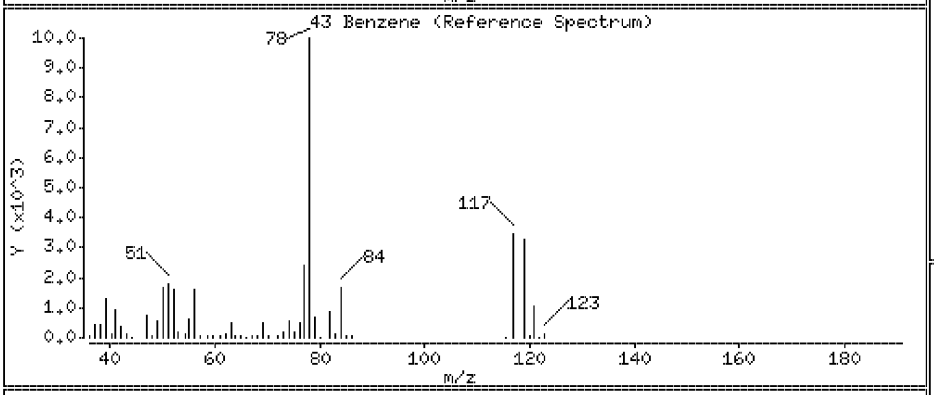
Column diameter: 0.32

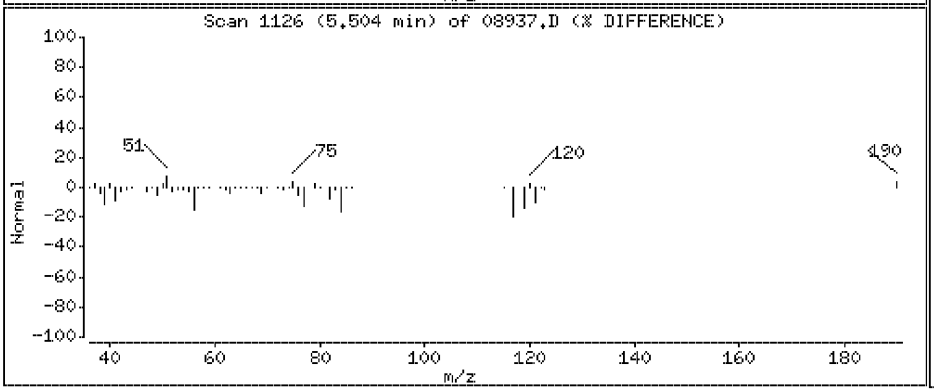
43 Benzene

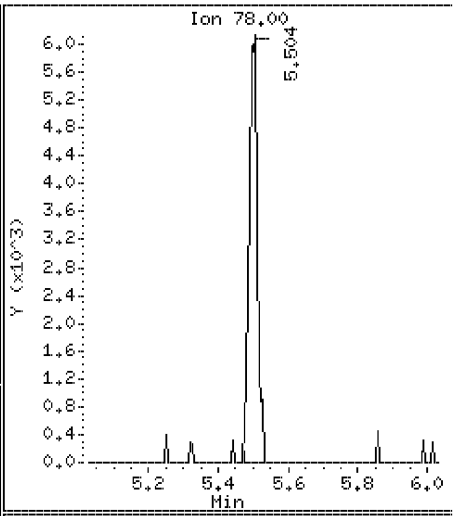
Concentration: 0.101 ppbv

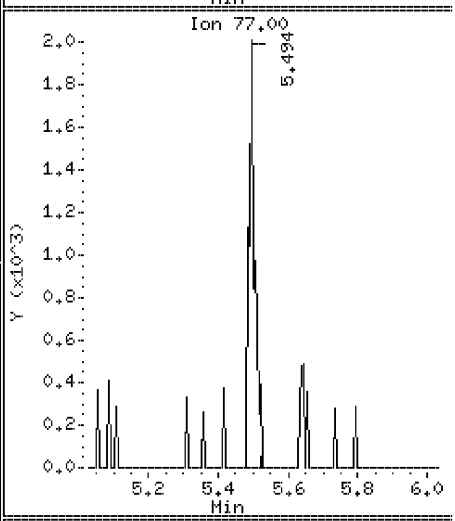


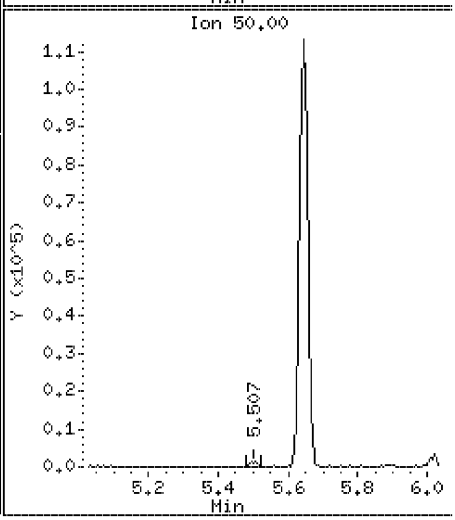












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

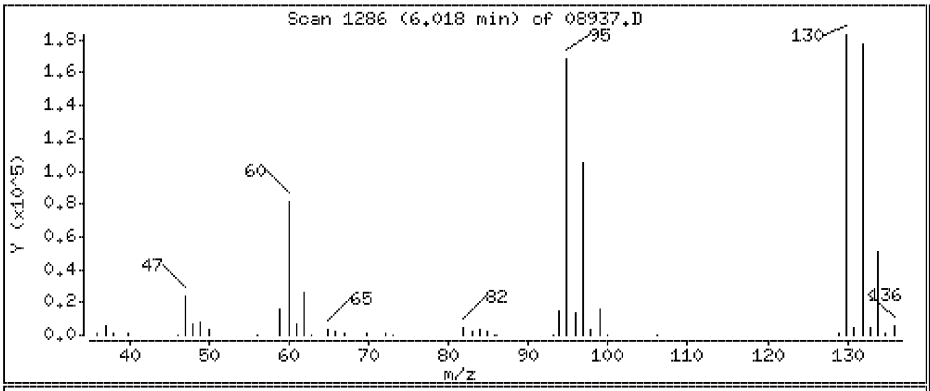
Operator: NCK

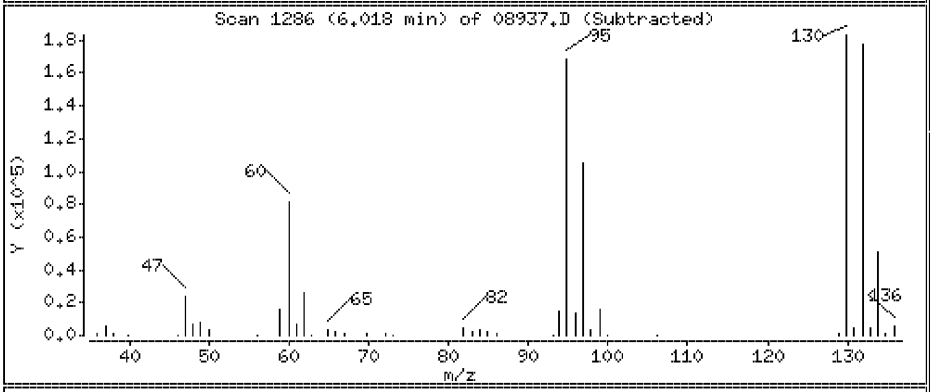
Column phase: J&W DB-5

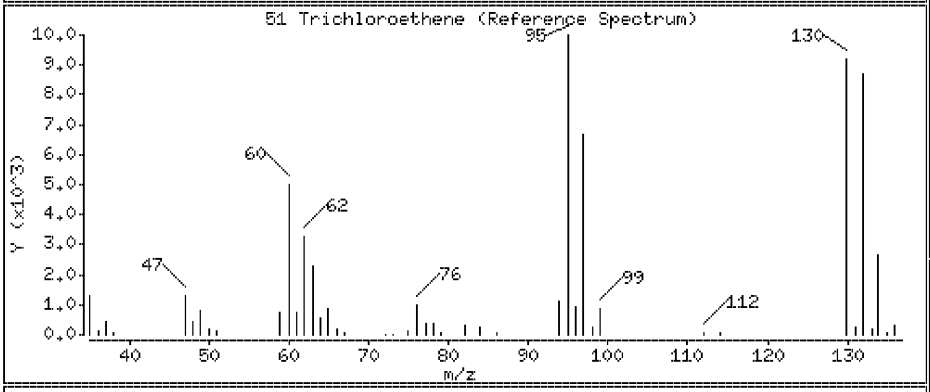
Column diameter: 0.32

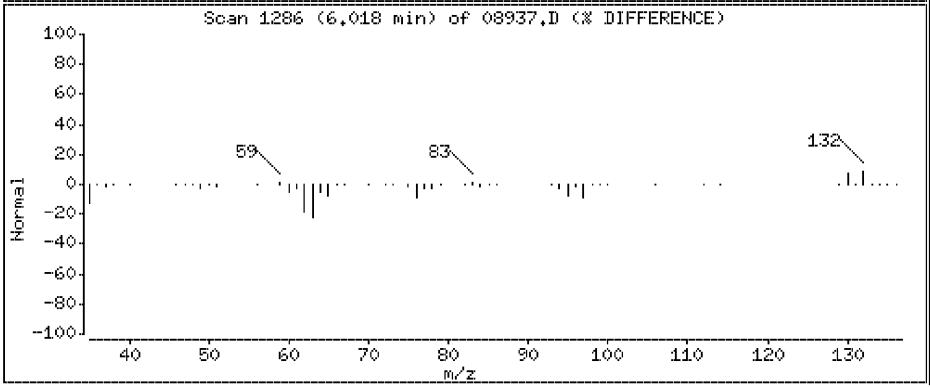
51 Trichloroethene

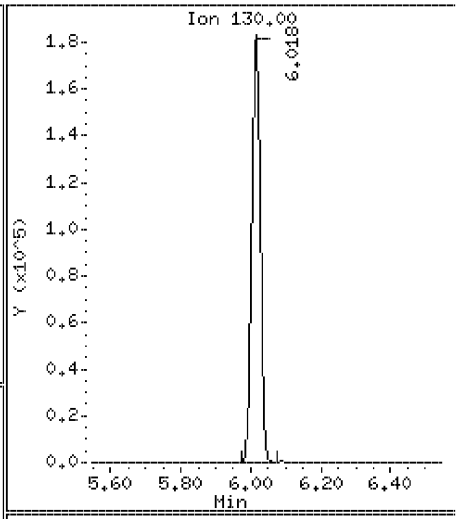
Concentration: 6.10 ppbv

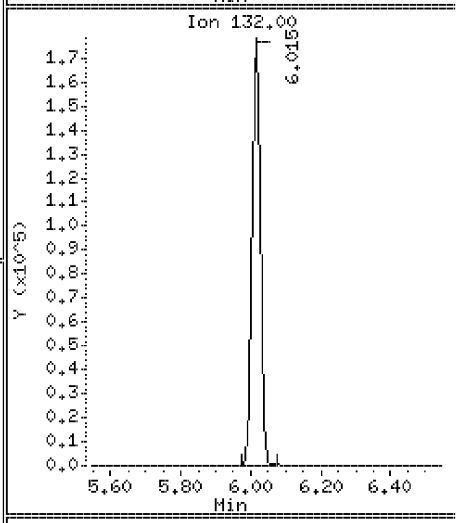


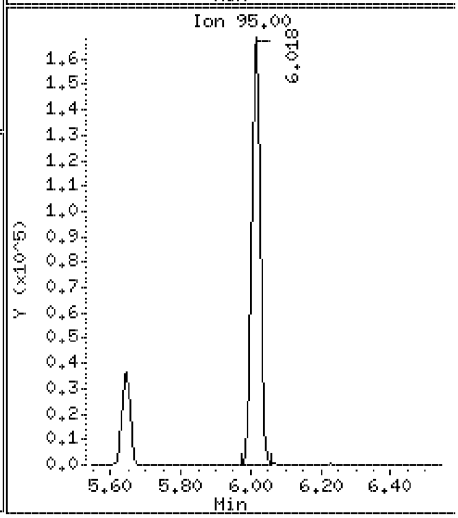












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

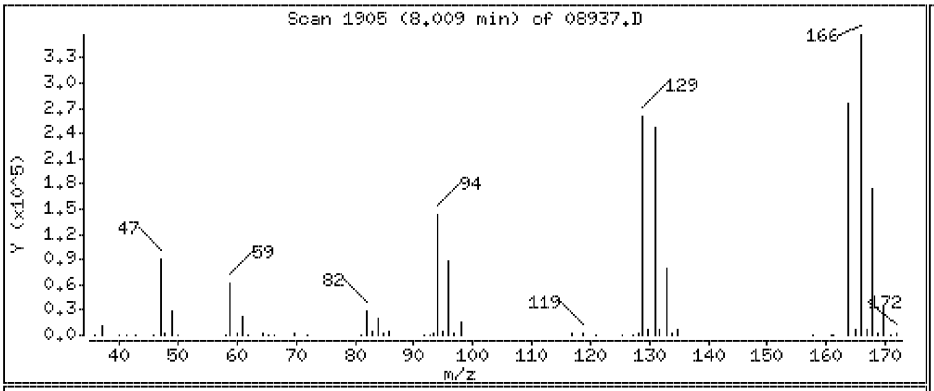
Operator: NCK

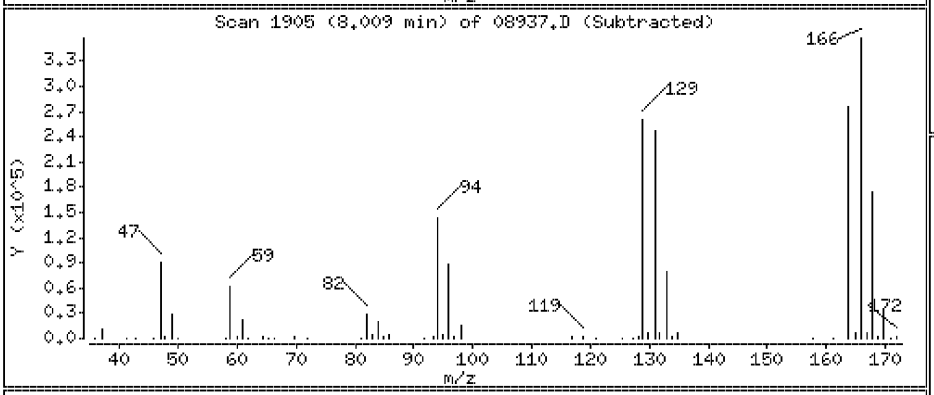
Column phase: J&W DB-5

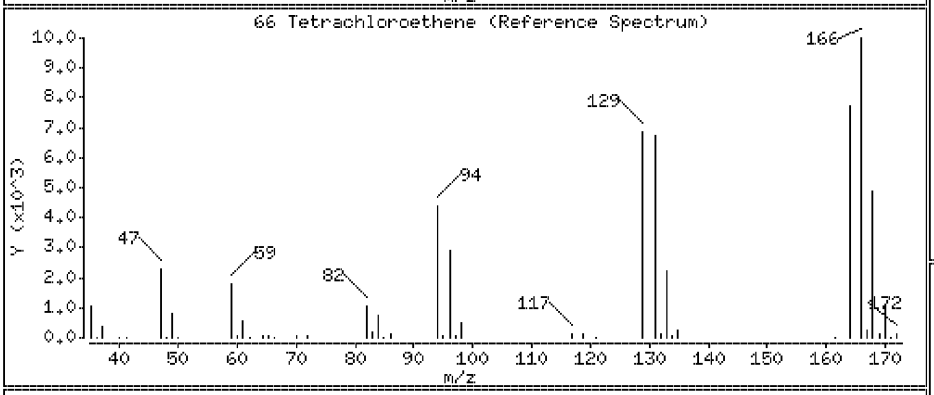
Column diameter: 0.32

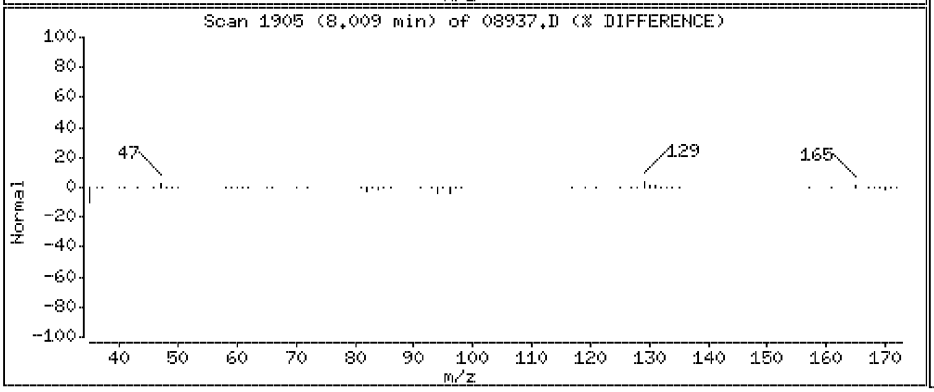
66 Tetrachloroethene

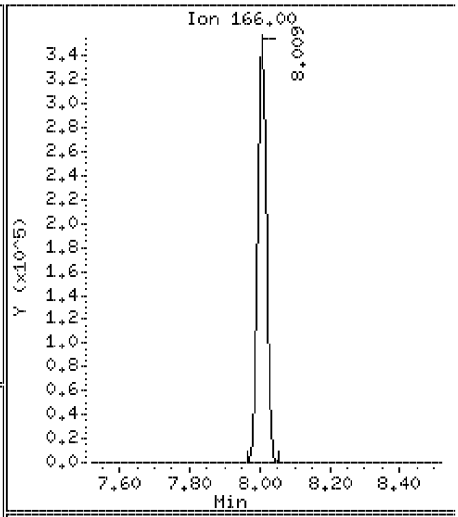
Concentration: 10.1 ppbv

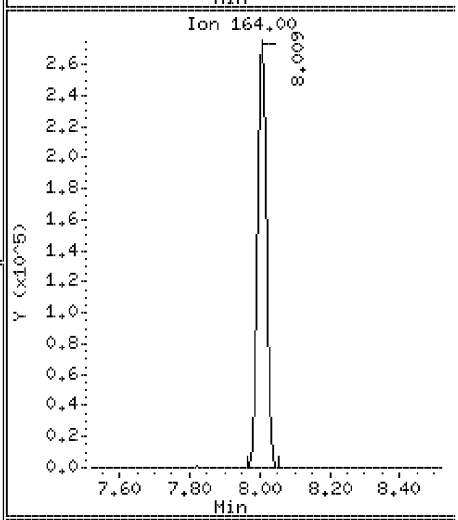


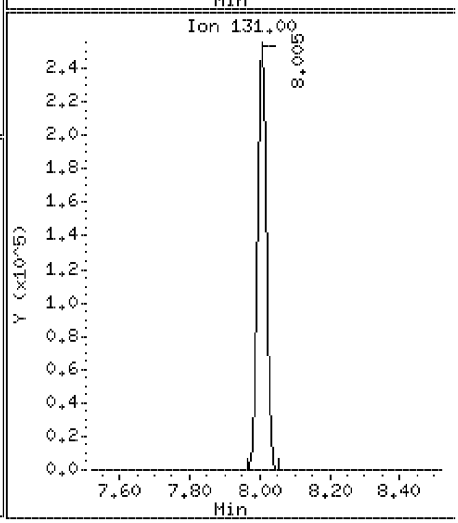












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

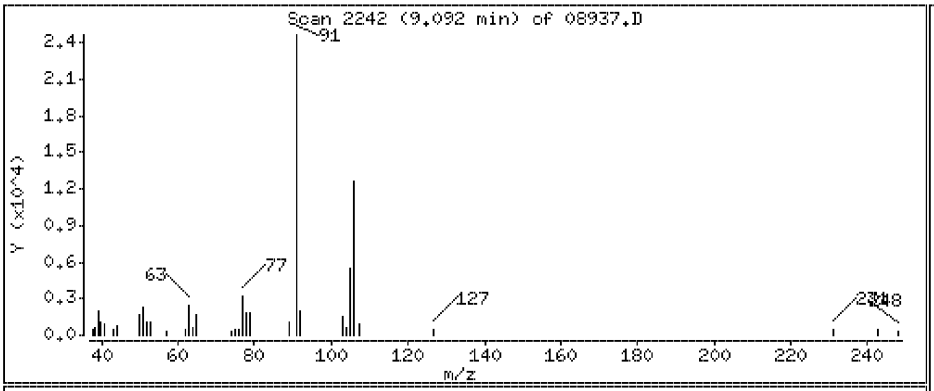
Operator: NCK

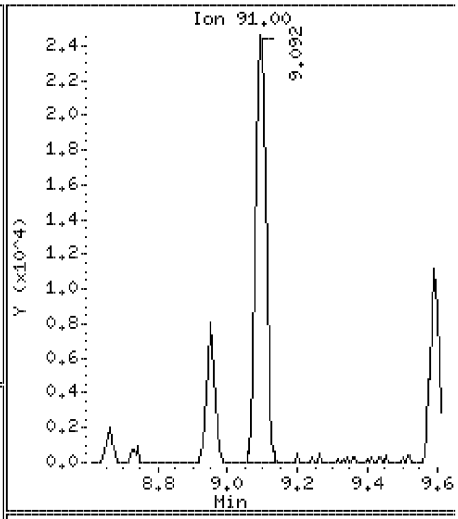
Column phase: J&W DB-5

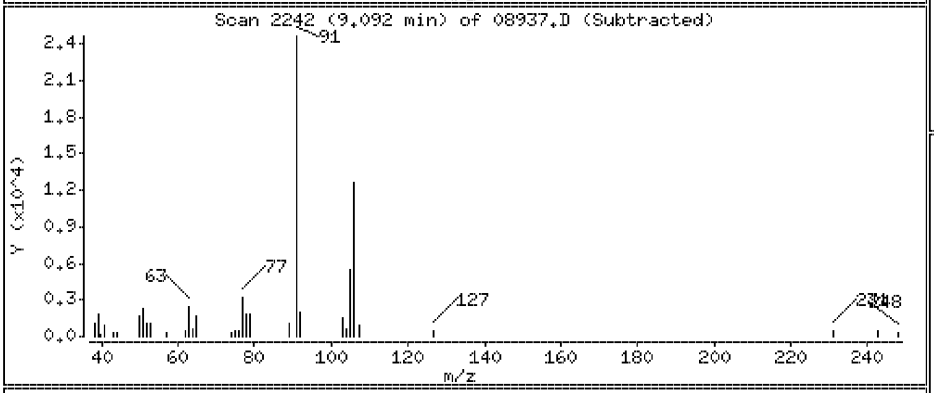
Column diameter: 0.32

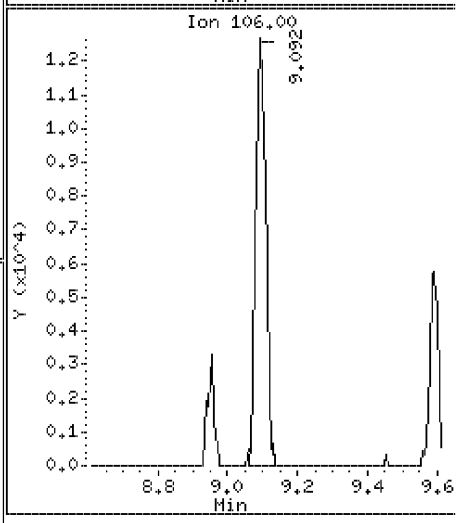
70 m&p-Xylene

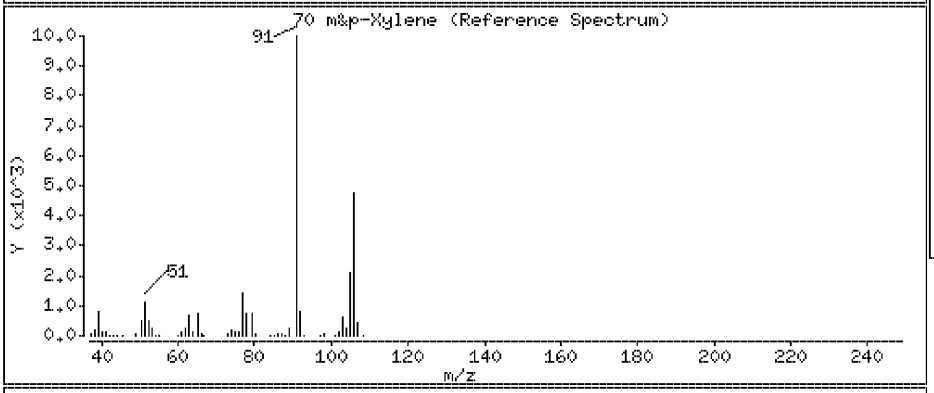
Concentration: 0.472 ppbv

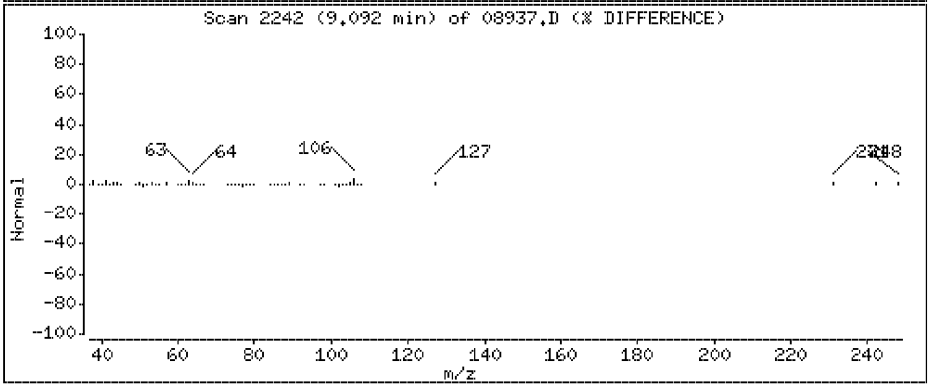












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

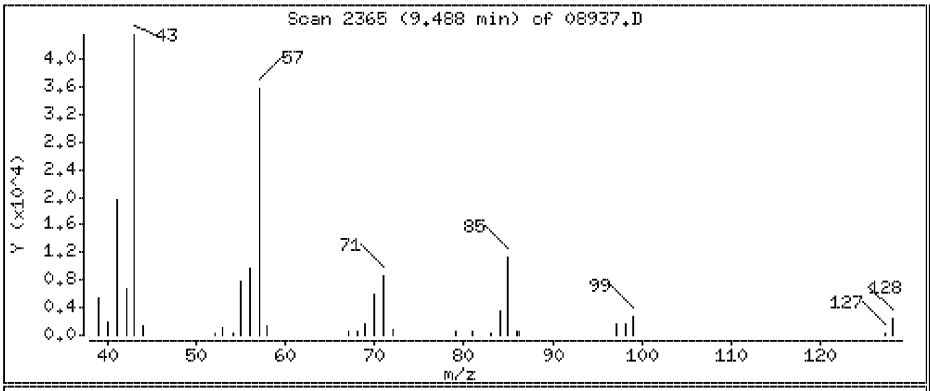
Operator: NCK

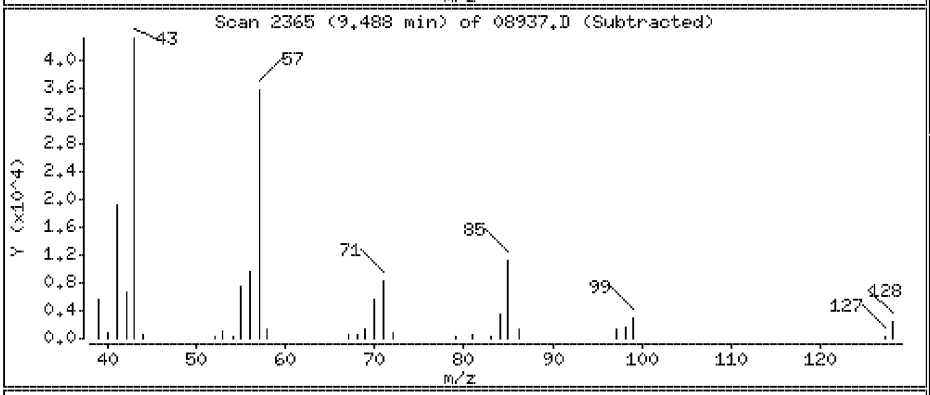
Column phase: J&W DB-5

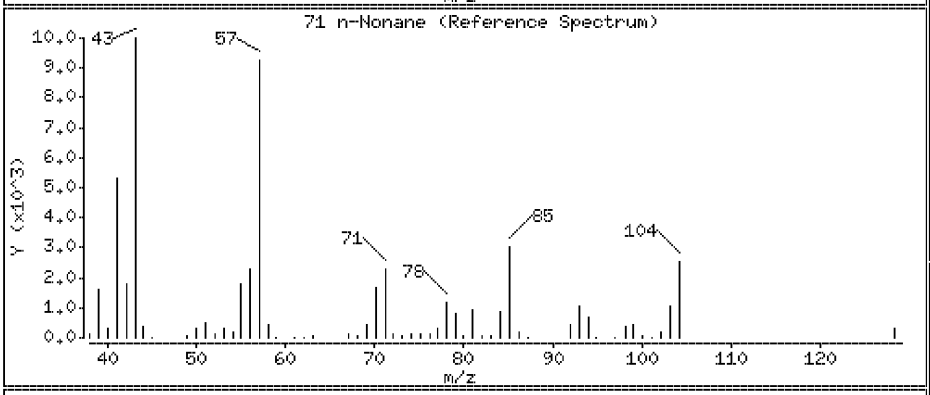
Column diameter: 0.32

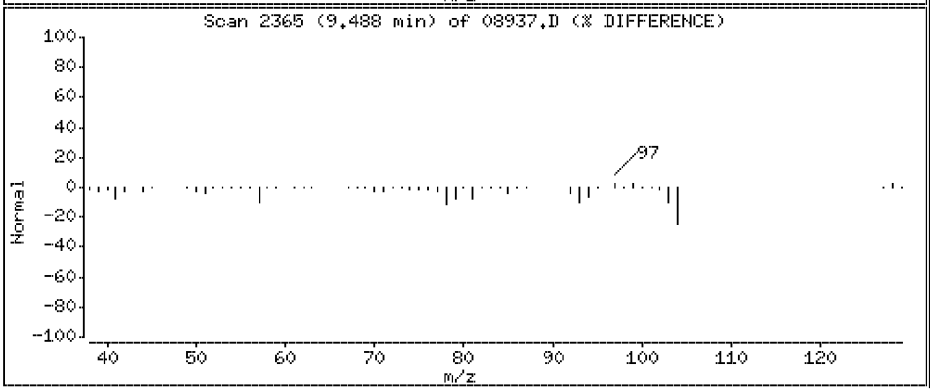
71 n-Nonane

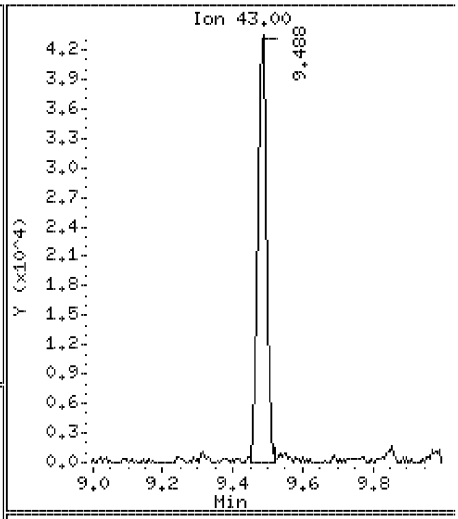
Concentration: 1.07 ppbv

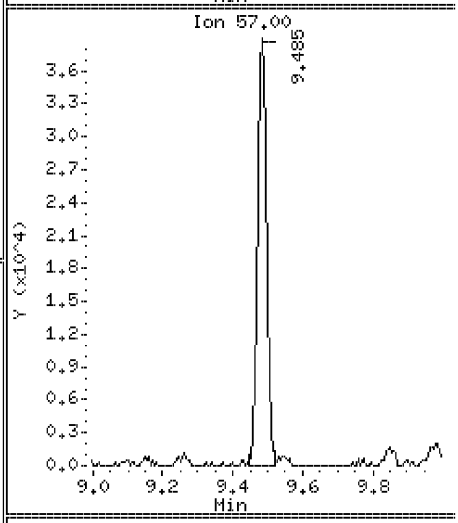


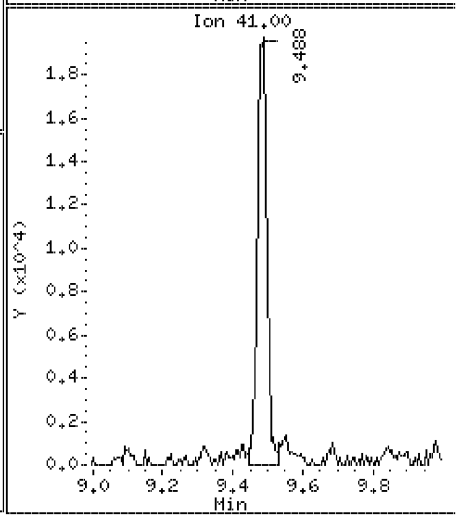












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

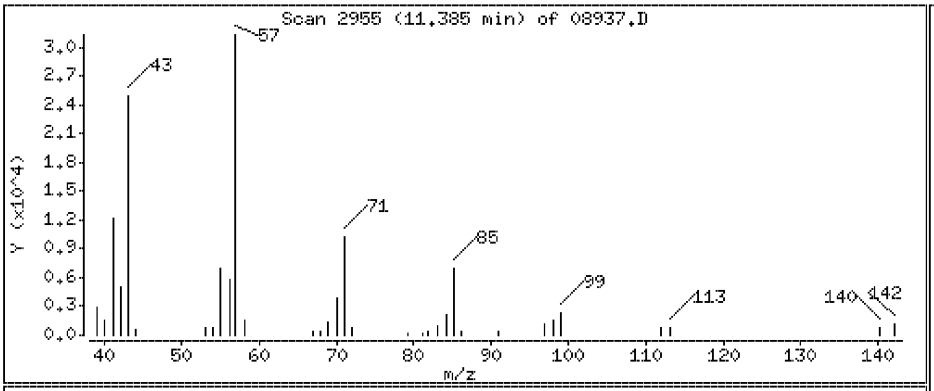
Operator: NCK

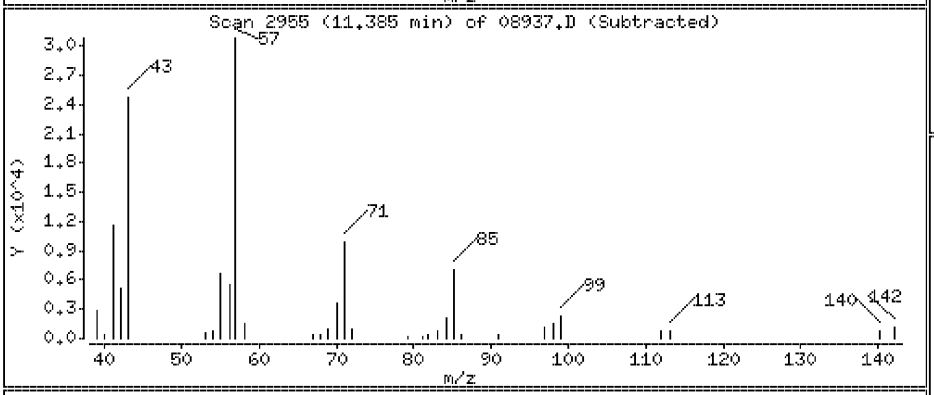
Column phase: J&W DB-5

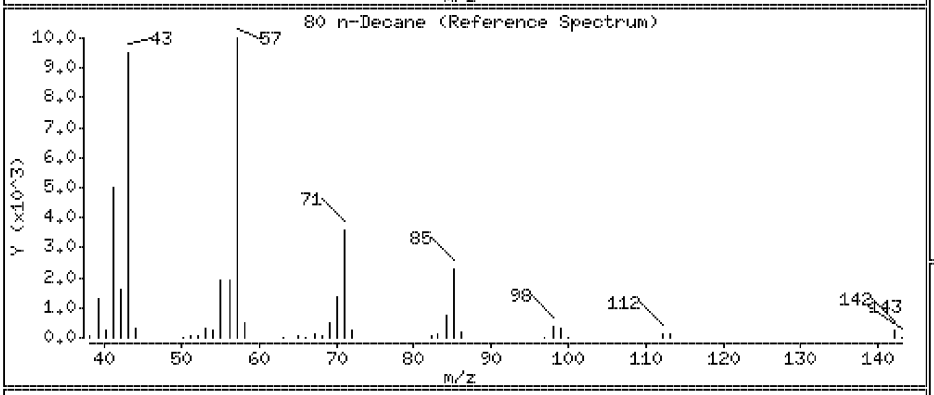
Column diameter: 0.32

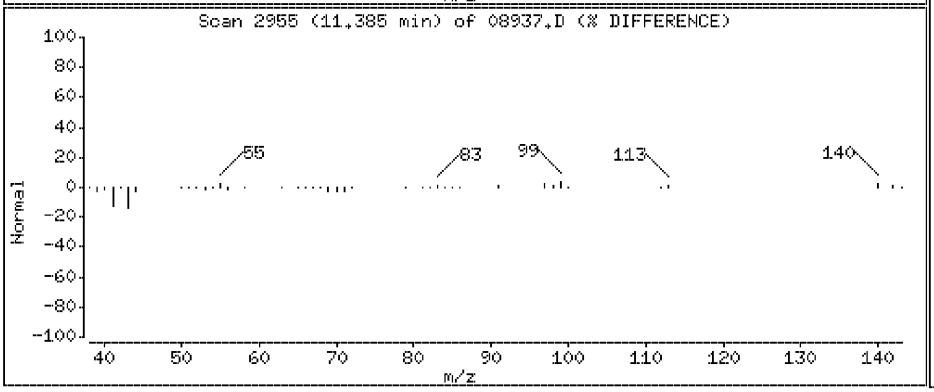
80 n-Decane

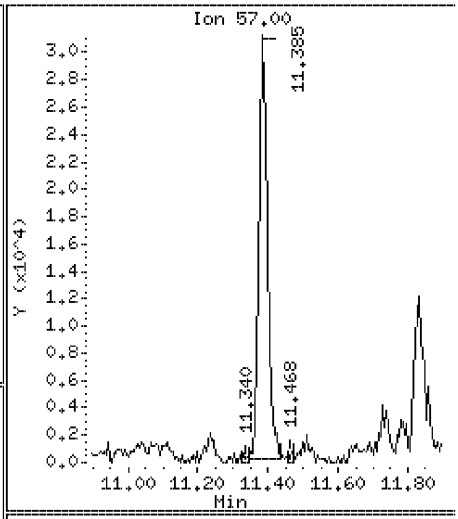
Concentration: 0.685 ppbv

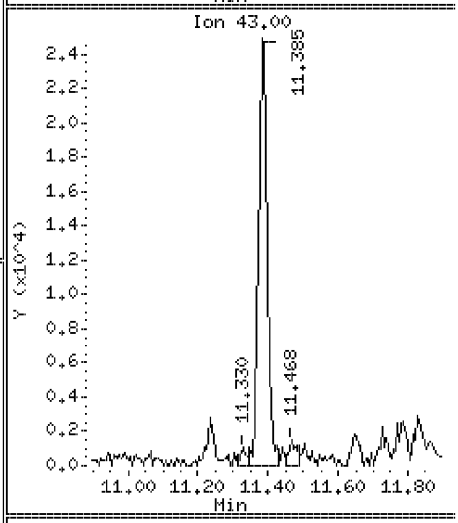


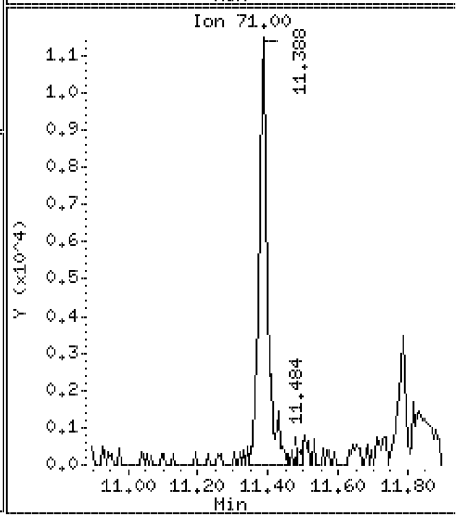












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

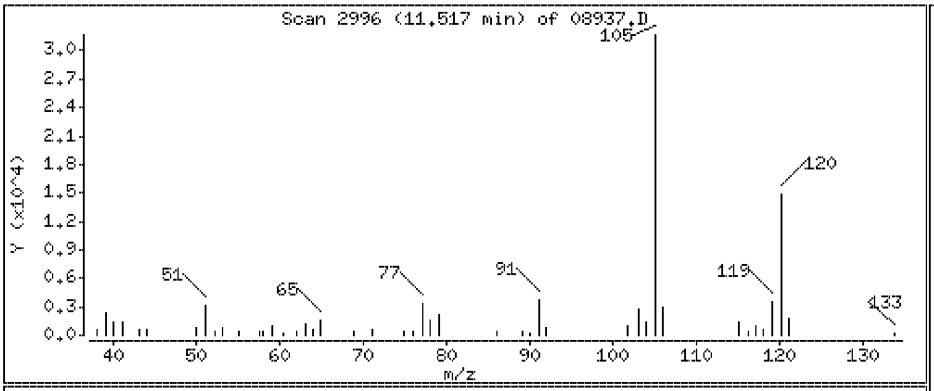
Operator: NCK

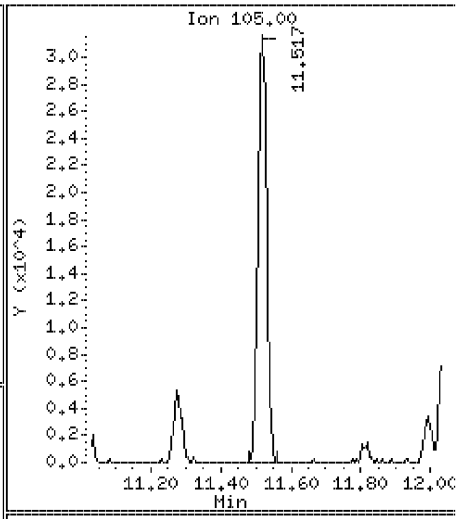
Column phase: J&W DB-5

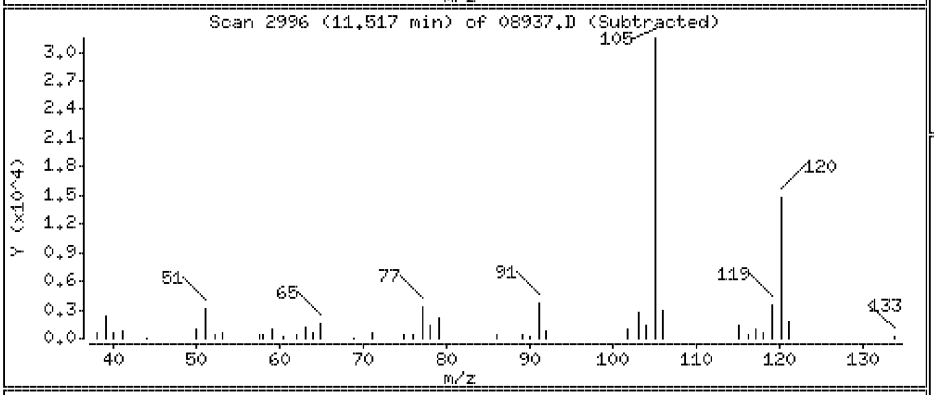
Column diameter: 0.32

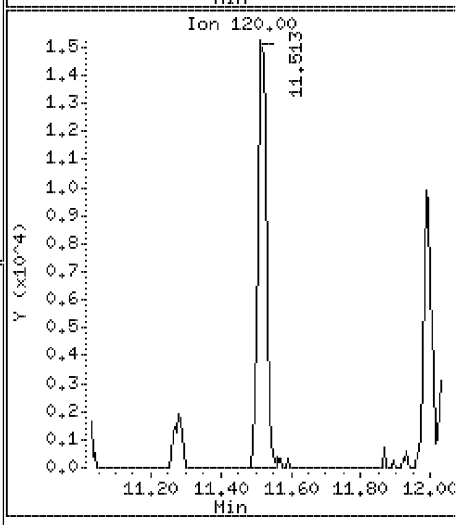
82 1,2,4-Trimethylbenzene

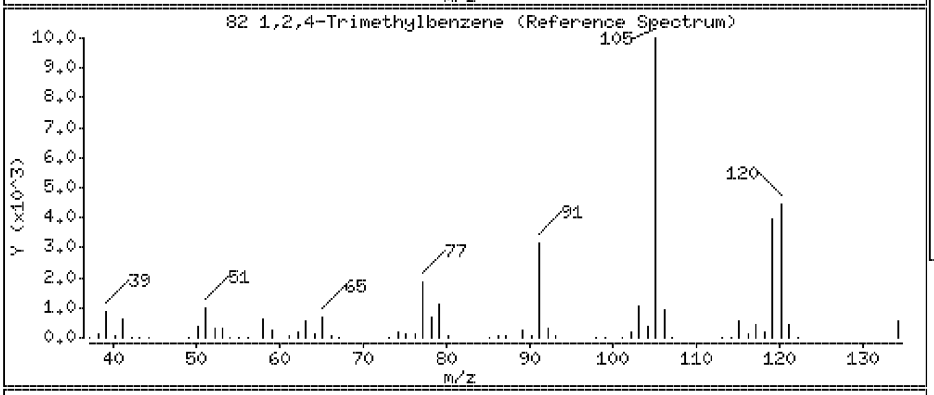
Concentration: 0.534 ppbv

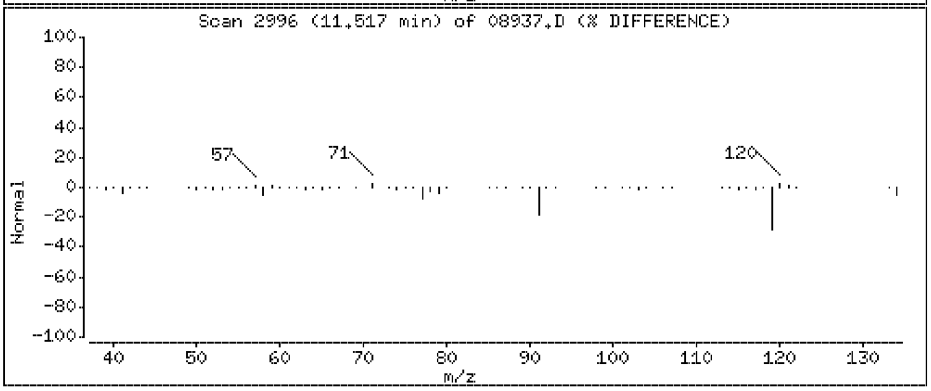












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

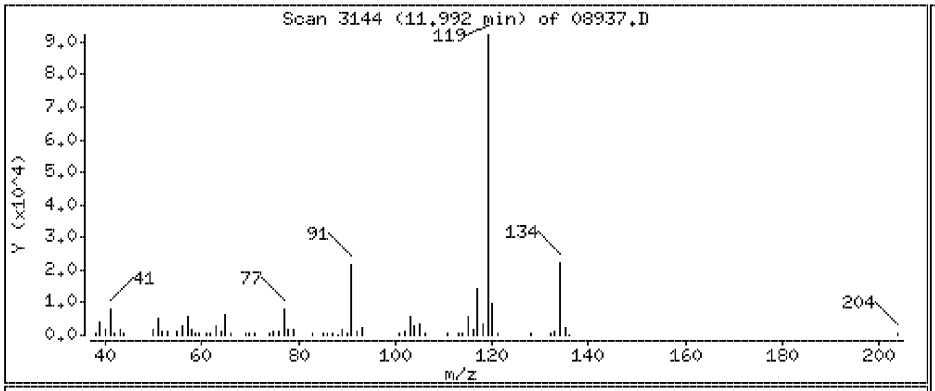
Operator: NCK

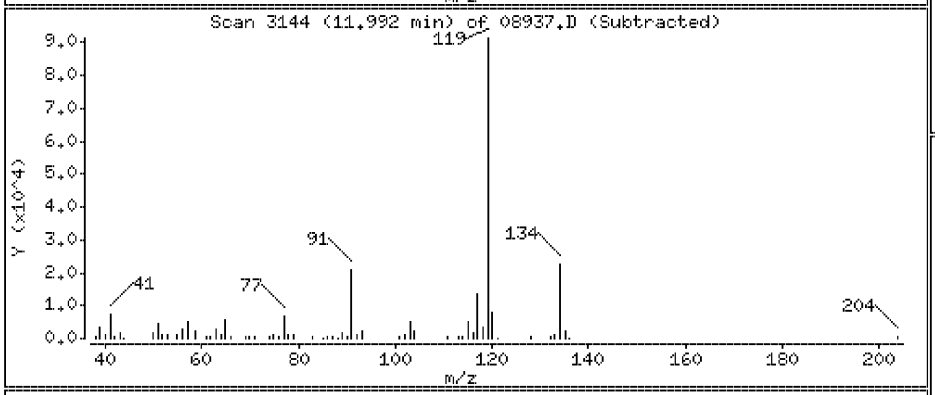
Column phase: J&W DB-5

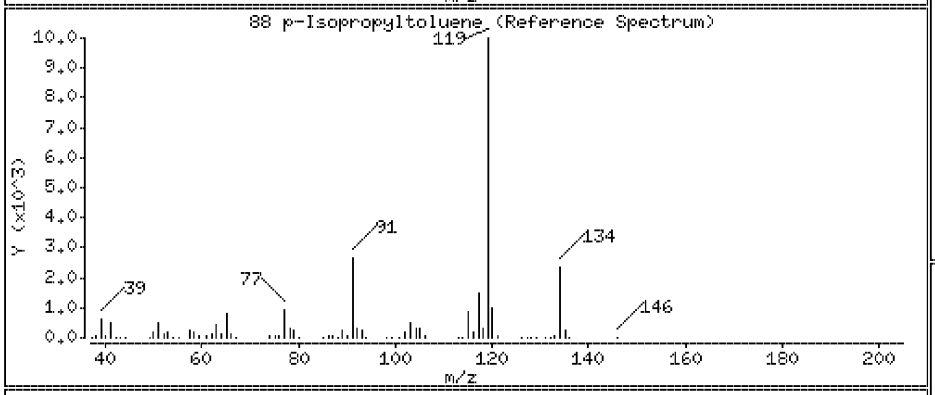
Column diameter: 0.32

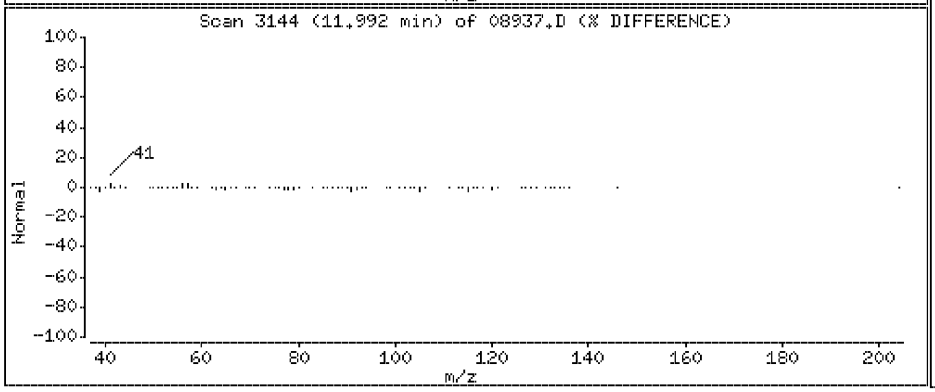
88 p-Isopropyltoluene

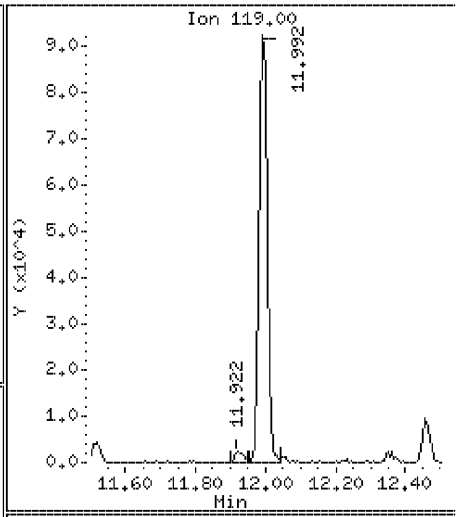
Concentration: 1.21 ppbv

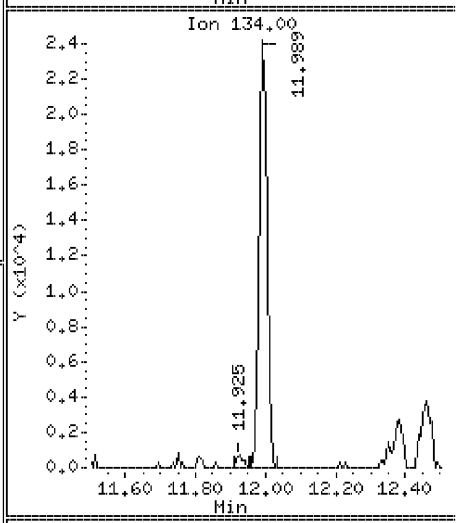


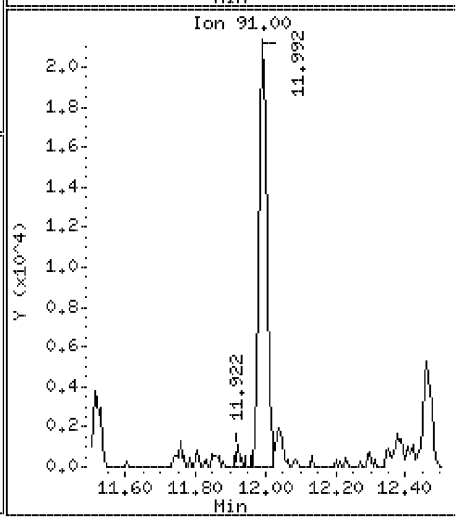












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

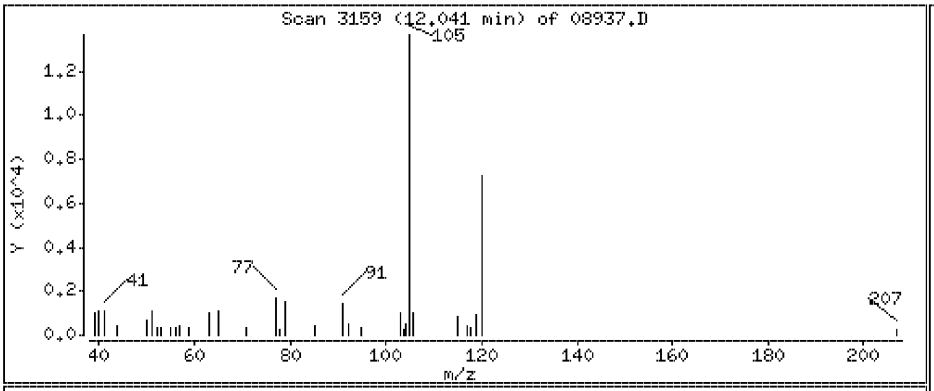
Operator: NCK

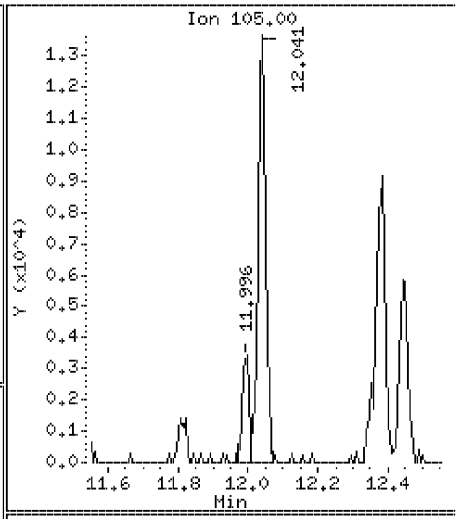
Column phase: J&W DB-5

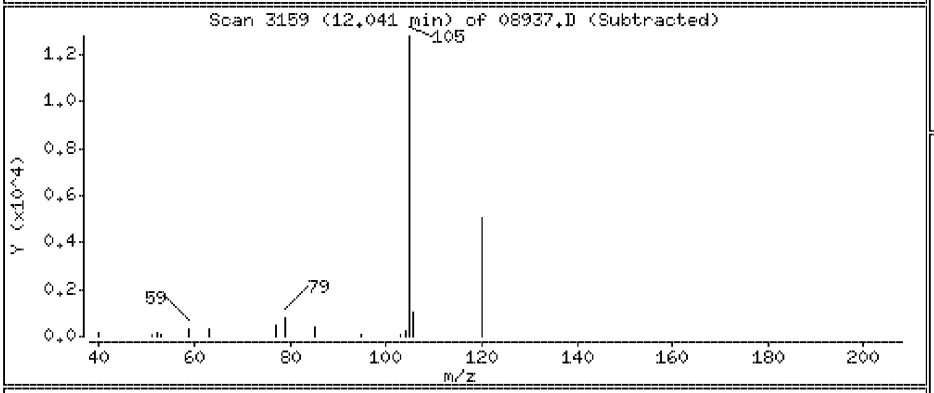
Column diameter: 0.32

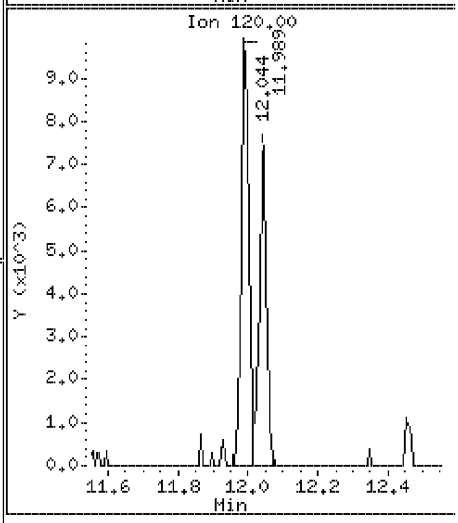
89 1,2,3-Trimethylbenzene

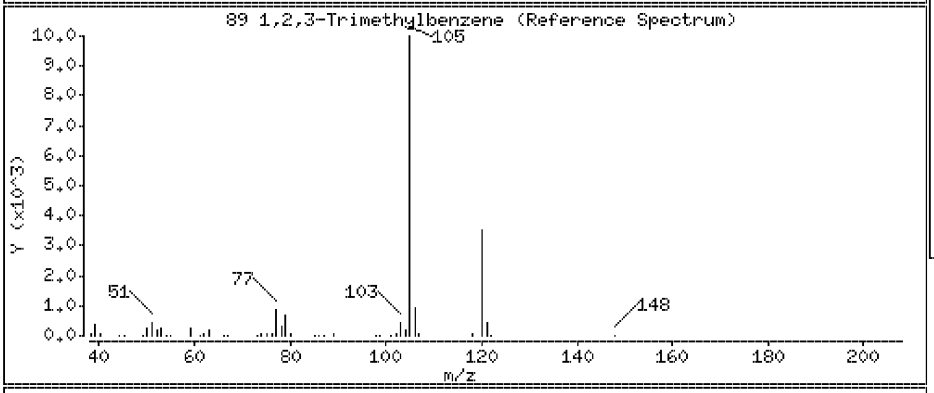
Concentration: 0.200 ppbv

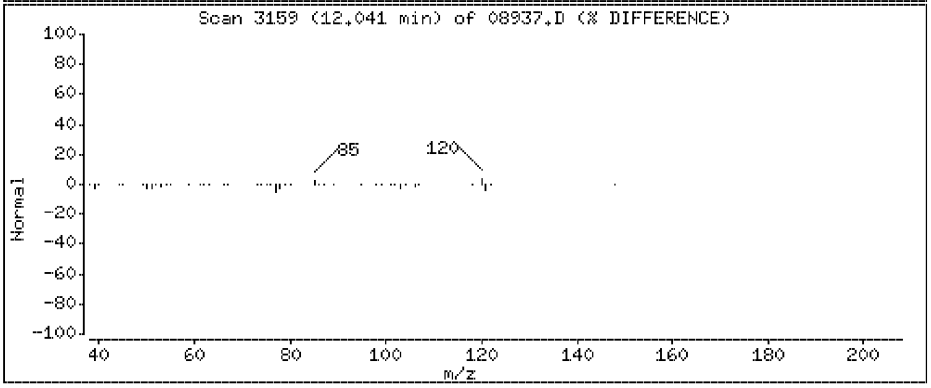












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08937.D

Date : 31-MAR-2017 06:02

Client ID:

Instrument: 10airB.i

Sample Info:

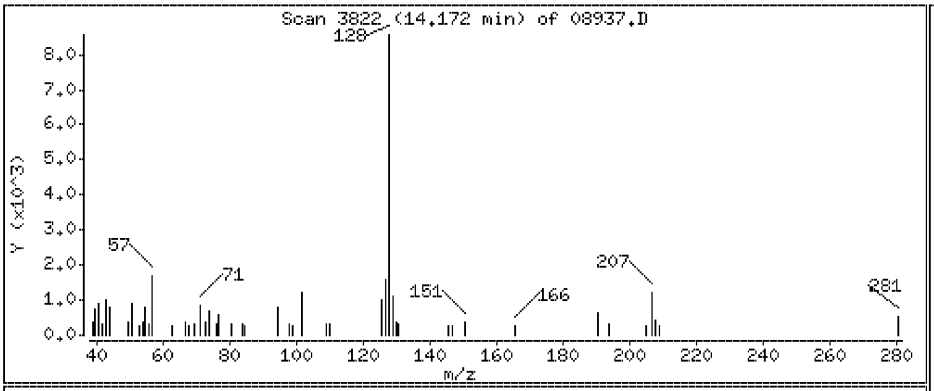
Operator: NCK

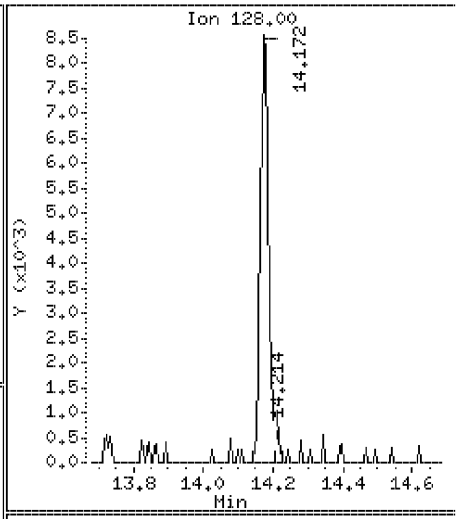
Column phase: J&W DB-5

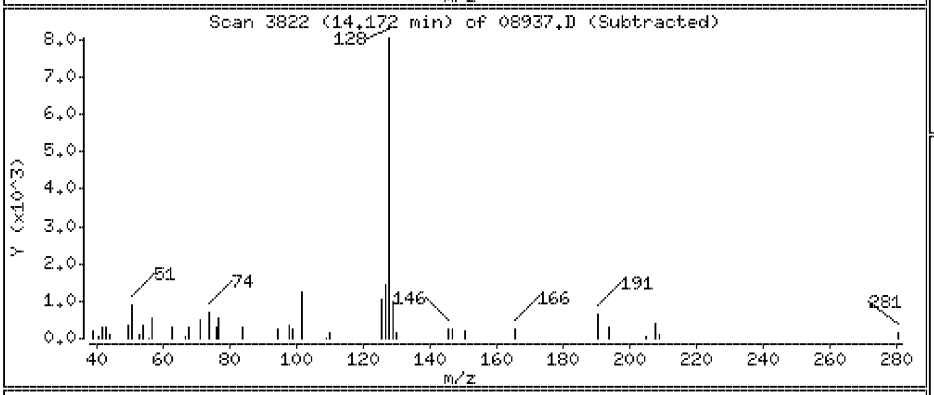
Column diameter: 0.32

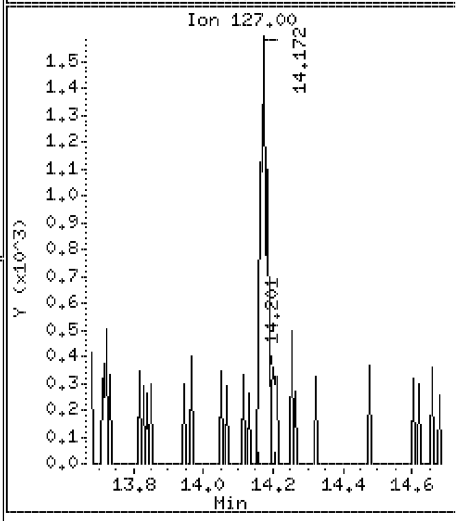
94 Naphthalene

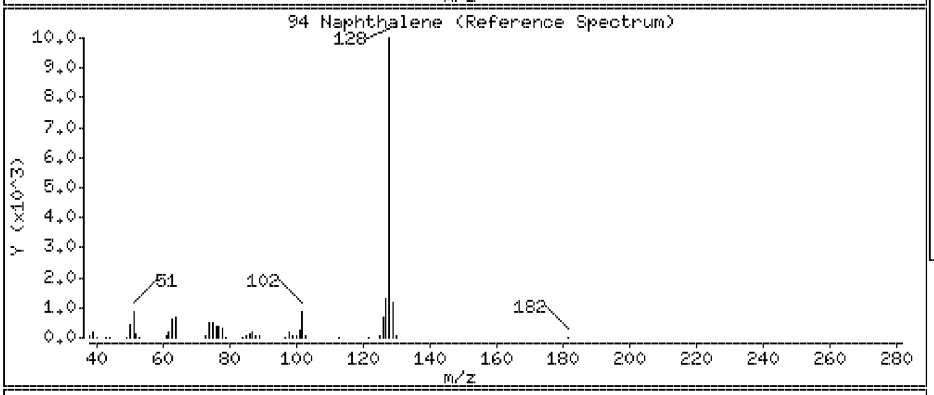
Concentration: 0.723 ppbv

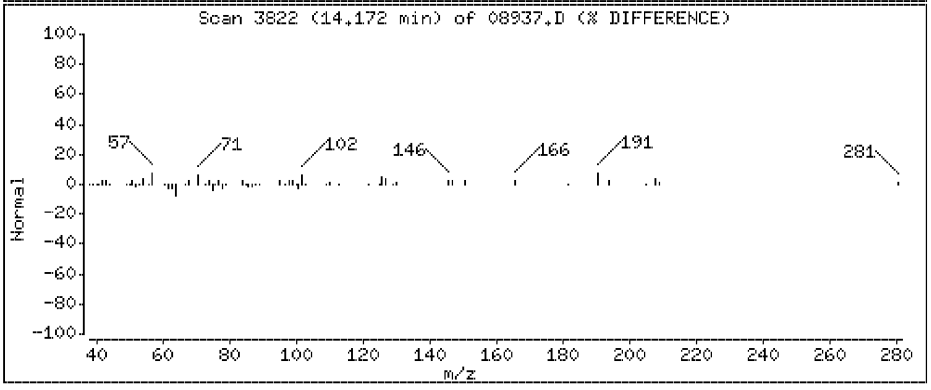












Data File: \\192.168.10.12\chem\10airB.i\033017.b/08937.D
Injection Date: 31-MAR-2017 06:02
Instrument: 10airB.i
Lab Sample ID: 10381335013
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_51_20170307 **Lab ID: 10381335014** Collected: 03/07/17 11:55 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.6J**	ug/m3	21.1	7.3	8.75		03/29/17 01:05	67-64-1	
Allyl chloride	**<2.0**	ug/m3	13.9	2.0	8.75		03/29/17 01:05	107-05-1	
Benzene	**<1.1**	ug/m3	2.8	1.1	8.75		03/29/17 01:05	71-43-2	
Bromodichloromethane	**<1.7**	ug/m3	11.9	1.7	8.75		03/29/17 01:05	75-27-4	
Bromoform	**<7.9**	ug/m3	18.4	7.9	8.75		03/29/17 01:05	75-25-2	
Bromomethane	**<2.7**	ug/m3	6.9	2.7	8.75		03/29/17 01:05	74-83-9	
1,3-Butadiene	**<1.5**	ug/m3	3.9	1.5	8.75		03/29/17 01:05	106-99-0	
2-Butanone (MEK)	**<2.0**	ug/m3	26.2	2.0	8.75		03/29/17 01:05	78-93-3	
Carbon disulfide	**<0.88**	ug/m3	5.5	0.88	8.75		03/29/17 01:05	75-15-0	
Carbon tetrachloride	**<1.7**	ug/m3	5.6	1.7	8.75		03/29/17 01:05	56-23-5	
Chlorobenzene	**<1.2**	ug/m3	8.2	1.2	8.75		03/29/17 01:05	108-90-7	
Chlorodifluoromethane	**<2.4**	ug/m3	6.3	2.4	8.75		03/29/17 01:05	75-45-6	
Chloroethane	**<1.7**	ug/m3	4.7	1.7	8.75		03/29/17 01:05	75-00-3	
Chloroform	**13.3**	ug/m3	4.3	1.7	8.75		03/29/17 01:05	67-66-3	
Chloromethane	**<0.94**	ug/m3	3.7	0.94	8.75		03/29/17 01:05	74-87-3	
Chloropentafluoroethane	**<28.1**	ug/m3	28.1	28.1	8.75		03/29/17 01:05	76-15-3	
Cyclohexane	**<2.8**	ug/m3	6.1	2.8	8.75		03/29/17 01:05	110-82-7	
1,2-Dibromo-3-chloropropane	**<43.0**	ug/m3	43.0	43.0	8.75		03/29/17 01:05	96-12-8	
Dibromochloromethane	**<7.5**	ug/m3	15.1	7.5	8.75		03/29/17 01:05	124-48-1	
1,2-Dibromoethane (EDB)	**<6.8**	ug/m3	13.6	6.8	8.75		03/29/17 01:05	106-93-4	
1,2-Dichlorobenzene	**<4.5**	ug/m3	10.7	4.5	8.75		03/29/17 01:05	95-50-1	
1,3-Dichlorobenzene	**<4.6**	ug/m3	10.7	4.6	8.75		03/29/17 01:05	541-73-1	
1,4-Dichlorobenzene	**<4.4**	ug/m3	10.7	4.4	8.75		03/29/17 01:05	106-46-7	
Dichlorodifluoromethane	**<4.2**	ug/m3	8.8	4.2	8.75		03/29/17 01:05	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/m3	7.2	1.4	8.75		03/29/17 01:05	75-34-3	
1,2-Dichloroethane	**<1.8**	ug/m3	3.6	1.8	8.75		03/29/17 01:05	107-06-2	
1,1-Dichloroethene	**<2.1**	ug/m3	7.1	2.1	8.75		03/29/17 01:05	75-35-4	
cis-1,2-Dichloroethene	**193**	ug/m3	7.1	2.2	8.75		03/29/17 01:05	156-59-2	
trans-1,2-Dichloroethene	**<3.4**	ug/m3	7.1	3.4	8.75		03/29/17 01:05	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/m3	8.2	2.4	8.75		03/29/17 01:05	78-87-5	
cis-1,3-Dichloropropene	**<3.2**	ug/m3	8.0	3.2	8.75		03/29/17 01:05	10061-01-5	
trans-1,3-Dichloropropene	**<2.3**	ug/m3	20.2	2.3	8.75		03/29/17 01:05	10061-02-6	
Dichlorotetrafluoroethane	**<2.7**	ug/m3	12.4	2.7	8.75		03/29/17 01:05	76-14-2	
Freon 123	**<27.8**	ug/m3	27.8	27.8	8.75		03/29/17 01:05	306-83-2	
1,4-Dioxane (p-Dioxane)	**<3.1**	ug/m3	32.0	3.1	8.75		03/29/17 01:05	123-91-1	
Ethylbenzene	**<3.7**	ug/m3	7.7	3.7	8.75		03/29/17 01:05	100-41-4	
4-Ethyltoluene	**<1.6**	ug/m3	8.8	1.6	8.75		03/29/17 01:05	622-96-8	
Hexachloro-1,3-butadiene	**<5.7**	ug/m3	19.0	5.7	8.75		03/29/17 01:05	87-68-3	
n-Hexane	**<3.1**	ug/m3	6.3	3.1	8.75		03/29/17 01:05	110-54-3	
2-Hexanone	**<3.6**	ug/m3	36.4	3.6	8.75		03/29/17 01:05	591-78-6	
Isopropylbenzene (Cumene)	**<1.2**	ug/m3	21.9	1.2	8.75		03/29/17 01:05	98-82-8	
Methyl acetate	**<13.5**	ug/m3	13.5	13.5	8.75		03/29/17 01:05	79-20-9	
Methylcyclohexane	**<2.1**	ug/m3	7.1	2.1	8.75		03/29/17 01:05	108-87-2	
Methylene Chloride	**121**	ug/m3	30.9	4.7	8.75		03/29/17 01:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.9**	ug/m3	36.4	1.9	8.75		03/29/17 01:05	108-10-1	
Methyl-tert-butyl ether	**<2.7**	ug/m3	32.1	2.7	8.75		03/29/17 01:05	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D
Report Date: 03-Apr-2017 15:12

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08732.D
Lab Smp Id: 10381335014
Inj Date : 29-MAR-2017 01:05
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 32
Dil Factor: 8.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	8.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.558	3.539	(0.636)	5350	0.35128	3.07	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.735	3.713	(0.668)	38635	0.64381	5.63	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.925	3.938	(0.702)	16428	0.23115	2.02	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D
Report Date: 03-Apr-2017 15:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.970	3.999	(0.710)	179733	3.90694	34.2(M)	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.475	4.478	(0.800)	822160	9.54174	9.54	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.690	4.722	(0.838)	208999	5.48556	48.0(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.803	4.838	(0.859)	23080	0.30538	2.67	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.594	5.610	(1.000)	2296930	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.967	5.986	(1.067)	201835	2.90288	25.4	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.063	7.073	(1.263)	1858585	9.59803	9.60	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						(D)
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.976	7.986	(0.924)	547675	6.17276	54.0	
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1354736	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D
Report Date: 03-Apr-2017 15:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	520041	8.08625	8.09	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D
Report Date: 03-Apr-2017 15:12

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08732.D
Lab Smp Id: 10381335014
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

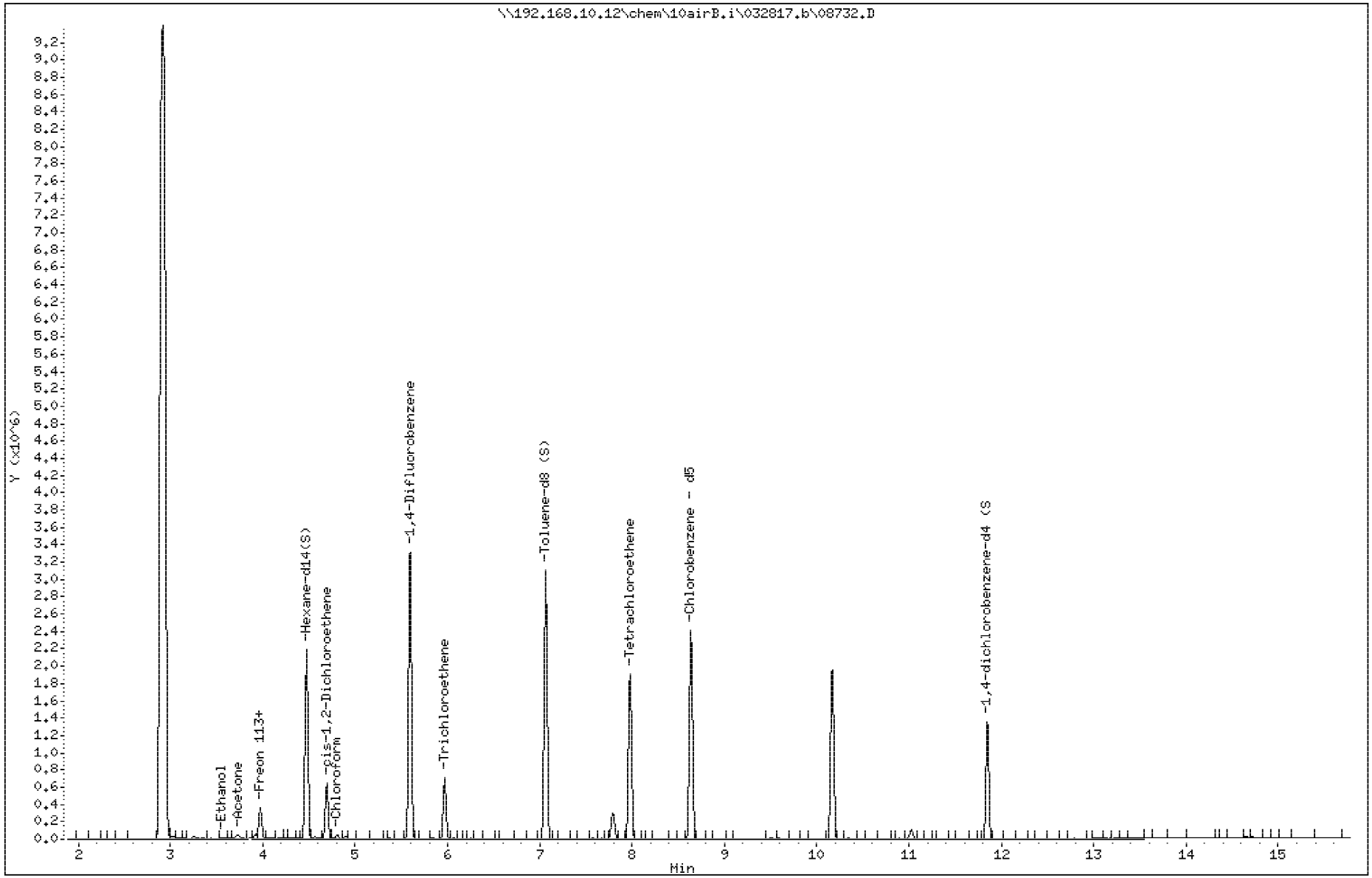
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2296930	-18.89
67 Chlorobenzene - d	1804482	1082689	2526275	1354736	-24.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.29
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D
Date : 29-MAR-2017 01:05
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D

Date : 29-MAR-2017 01:05

Client ID:

Instrument: 10airB.i

Sample Info:

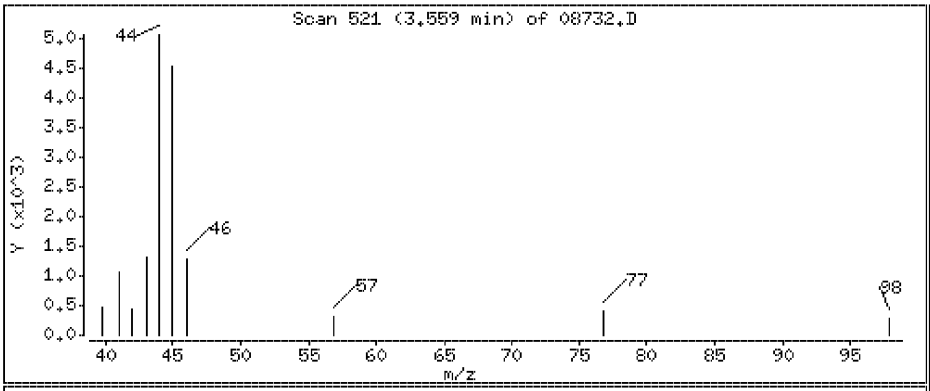
Operator: NCK

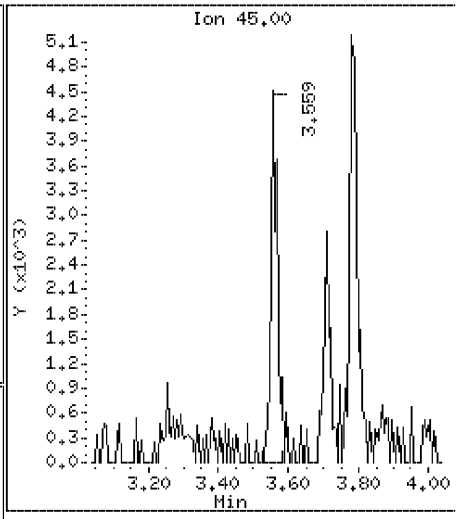
Column phase: J&W DB-5

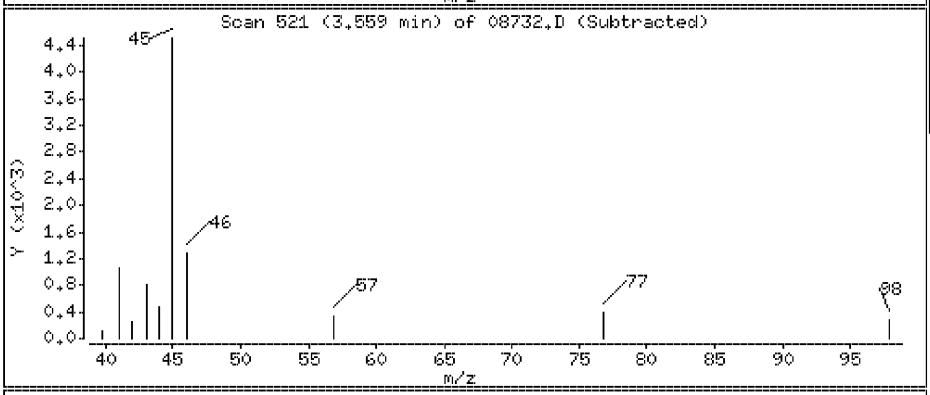
Column diameter: 0.32

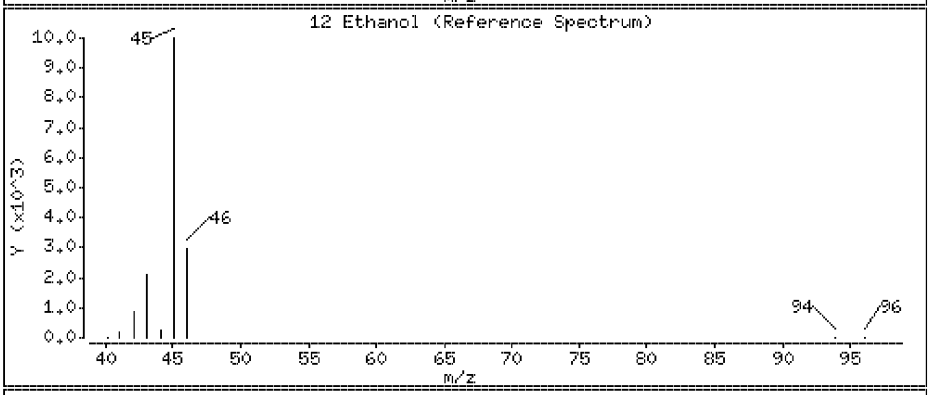
12 Ethanol

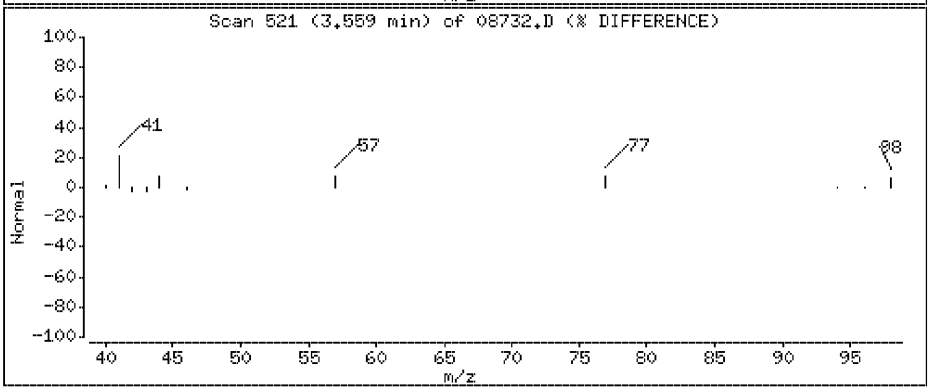
Concentration: 3.07 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D

Date : 29-MAR-2017 01:05

Client ID:

Instrument: 10airB.i

Sample Info:

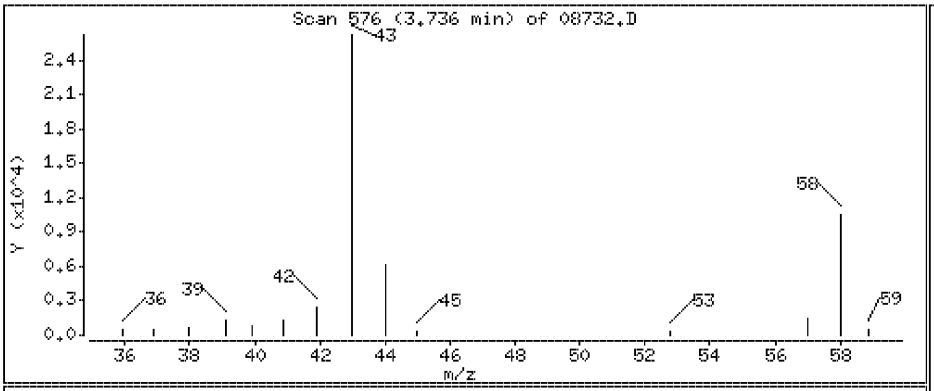
Operator: NCK

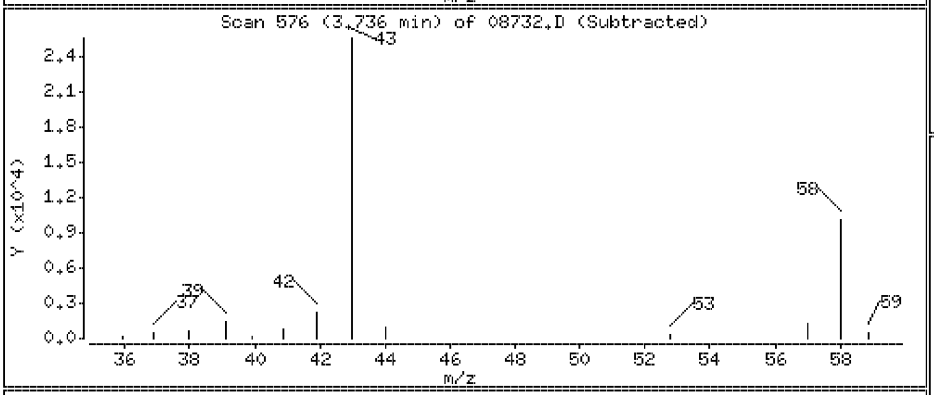
Column phase: J&W DB-5

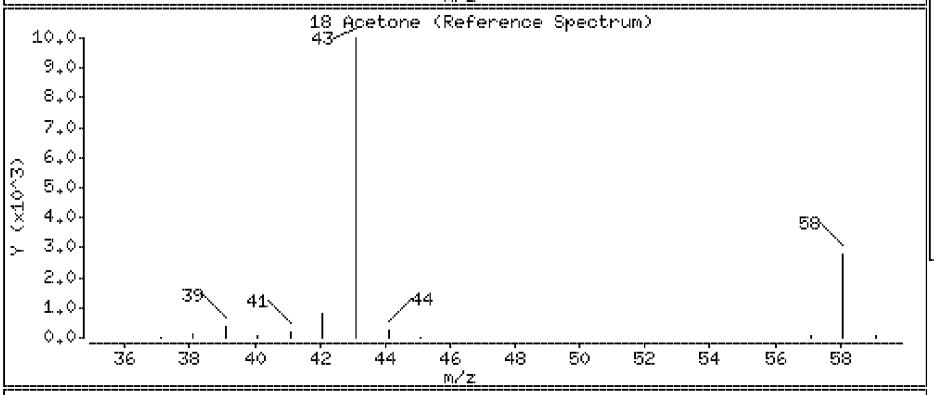
Column diameter: 0.32

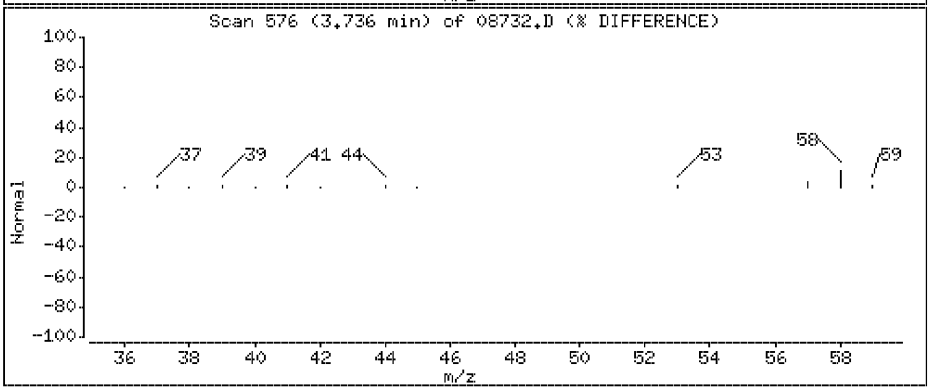
18 Acetone

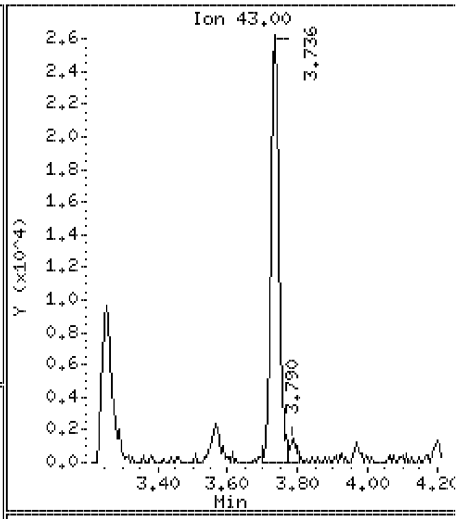
Concentration: 5.63 ppbv

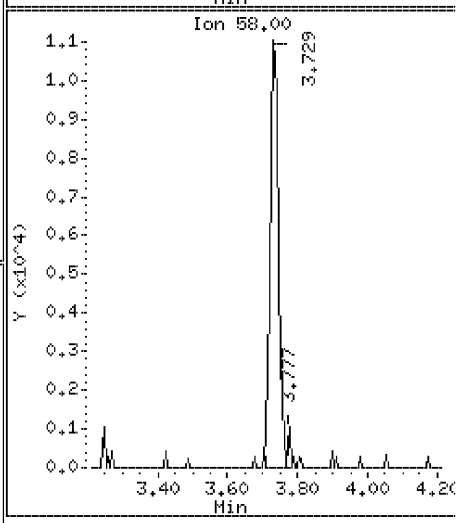












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D

Date : 29-MAR-2017 01:05

Client ID:

Instrument: 10airB.i

Sample Info:

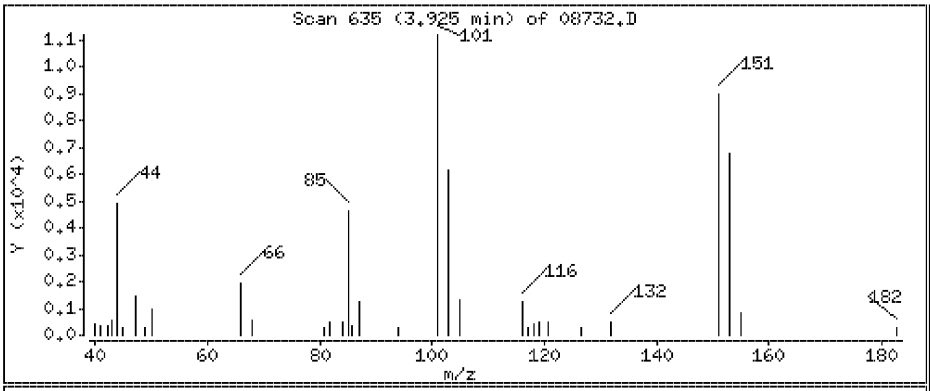
Operator: NCK

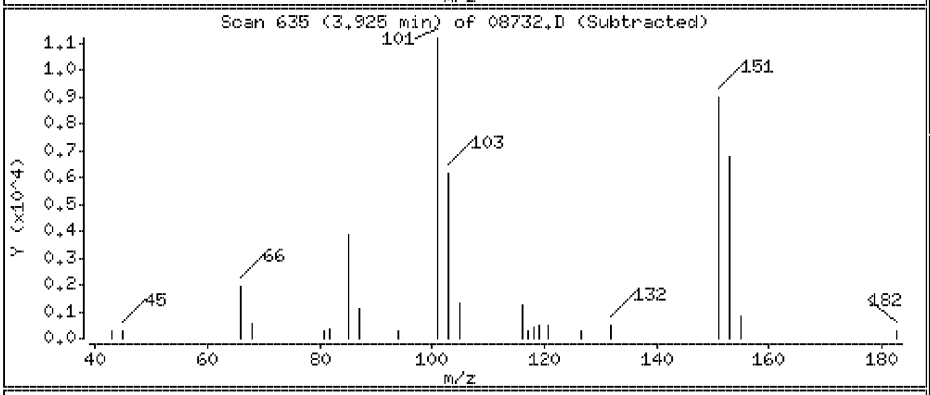
Column phase: J&W DB-5

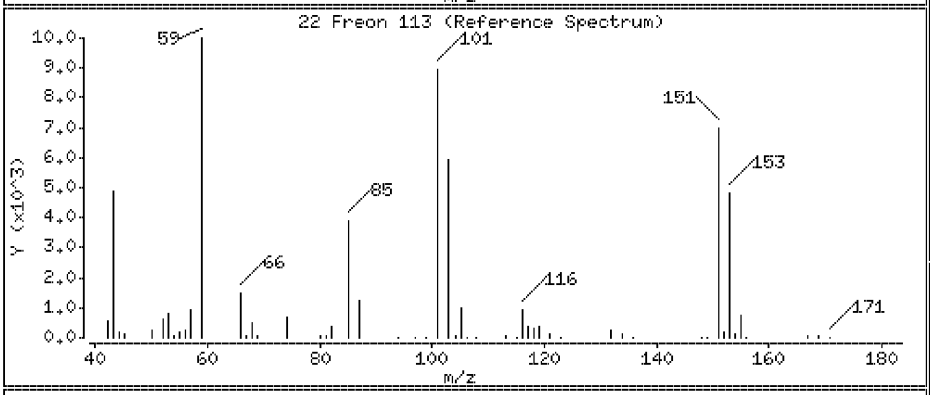
Column diameter: 0.32

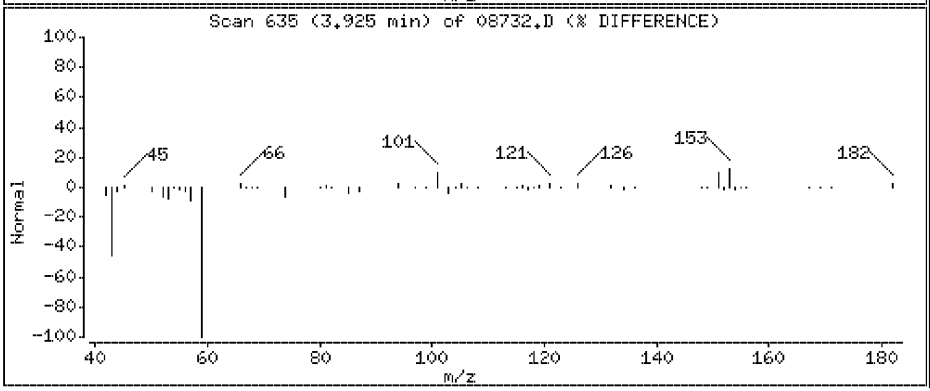
22 Freon 113

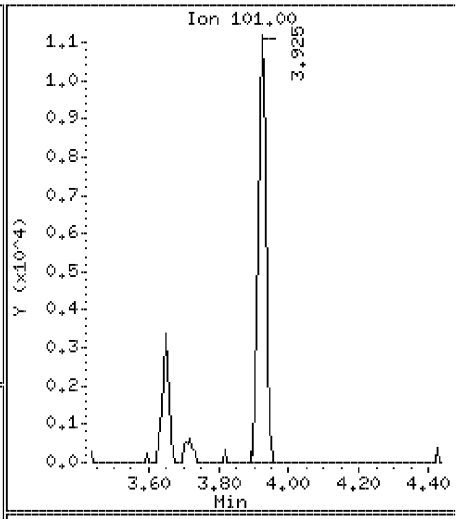
Concentration: 2.02 ppbv

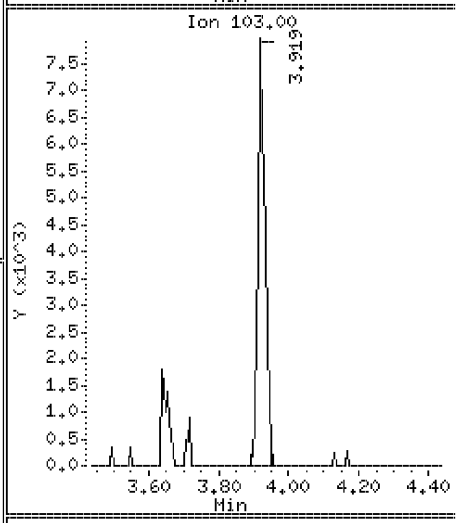


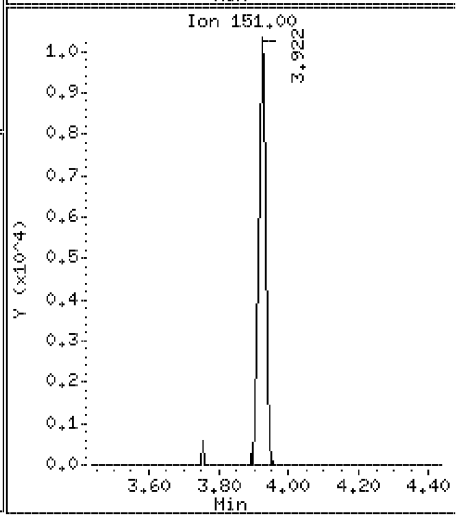












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D

Date : 29-MAR-2017 01:05

Client ID:

Instrument: 10airB.i

Sample Info:

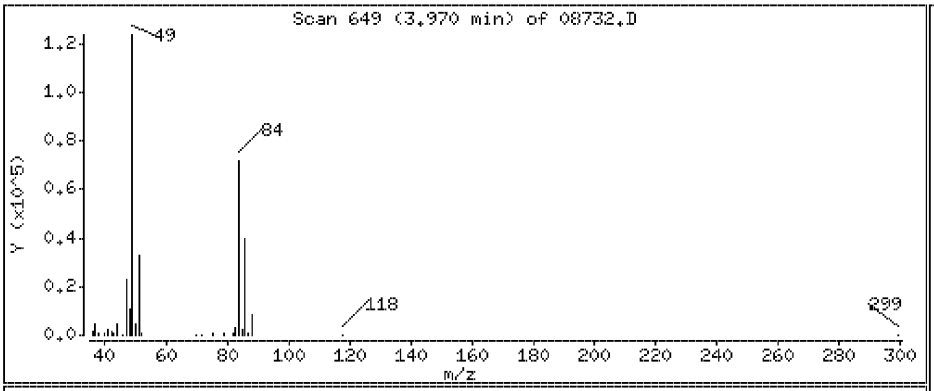
Operator: NCK

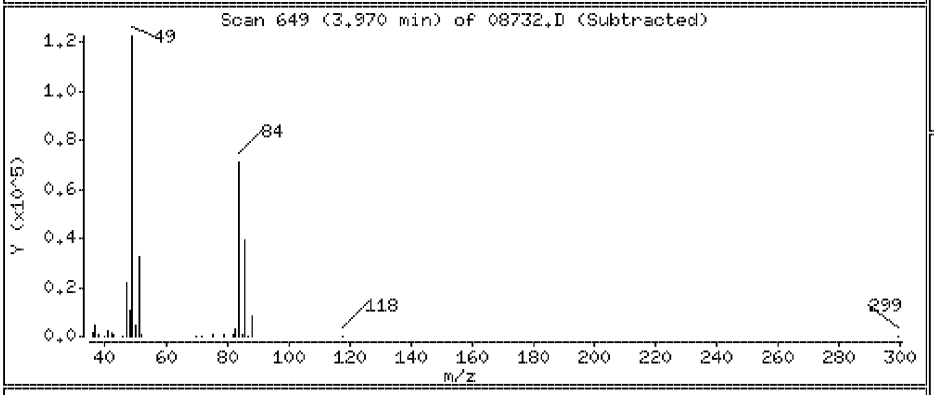
Column phase: J&W DB-5

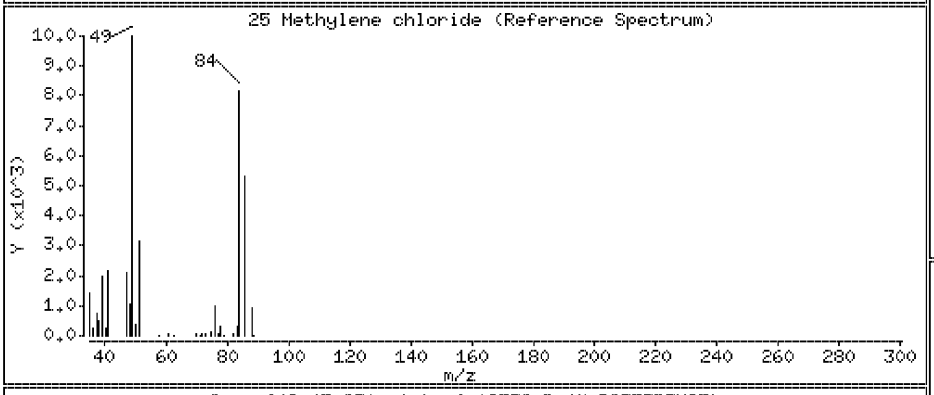
Column diameter: 0.32

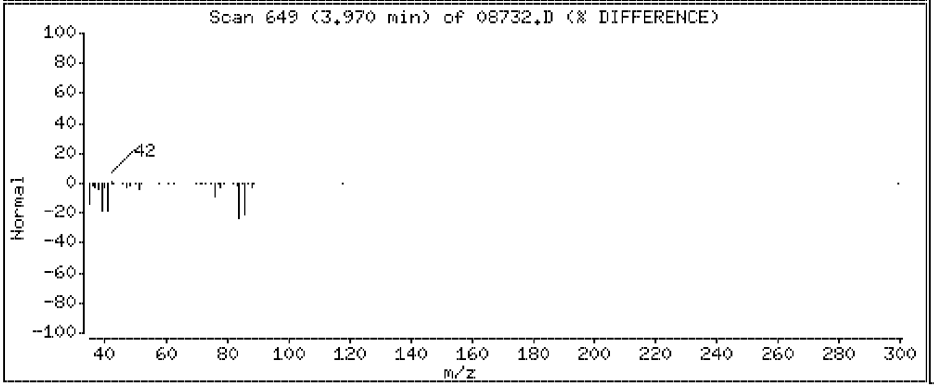
25 Methylene chloride

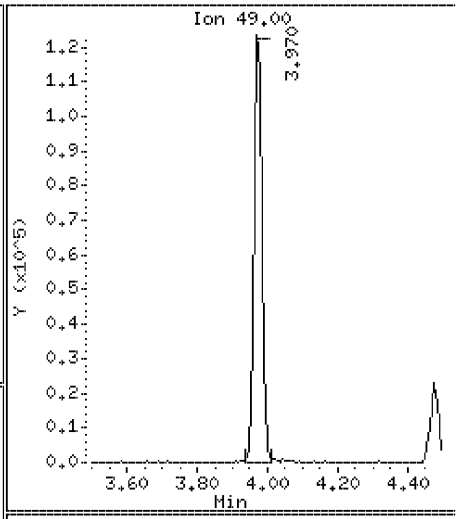
Concentration: 34.2 ppbv

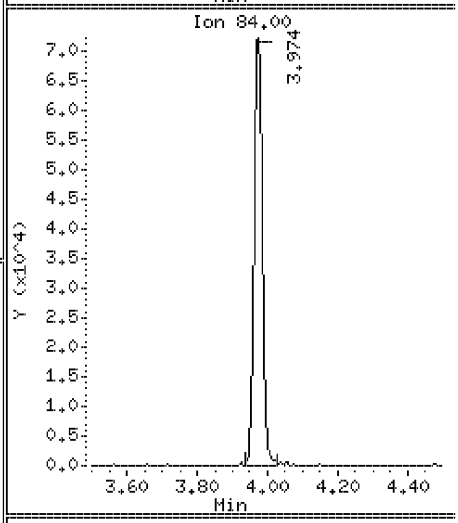


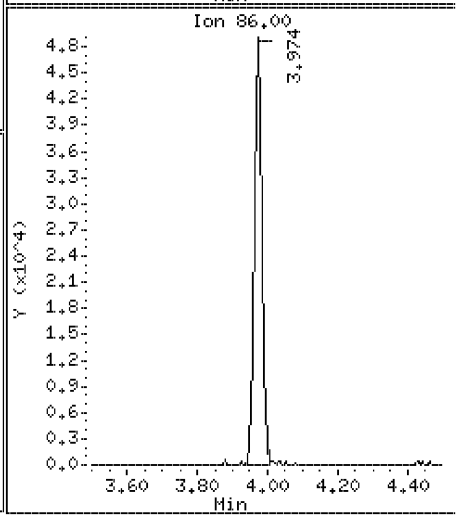












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D

Date : 29-MAR-2017 01:05

Client ID:

Instrument: 10airB.i

Sample Info:

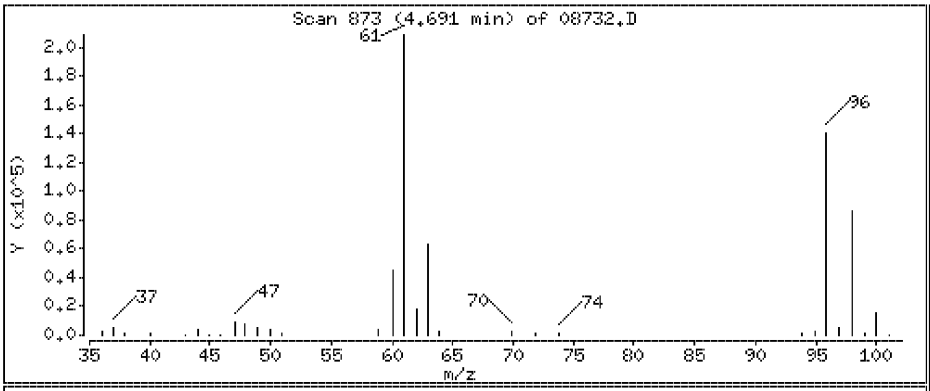
Operator: NCK

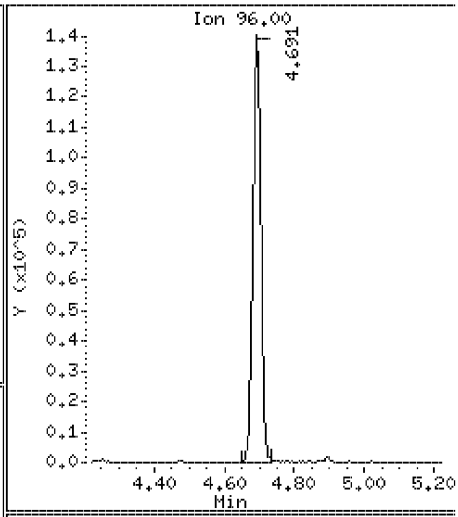
Column phase: J&W DB-5

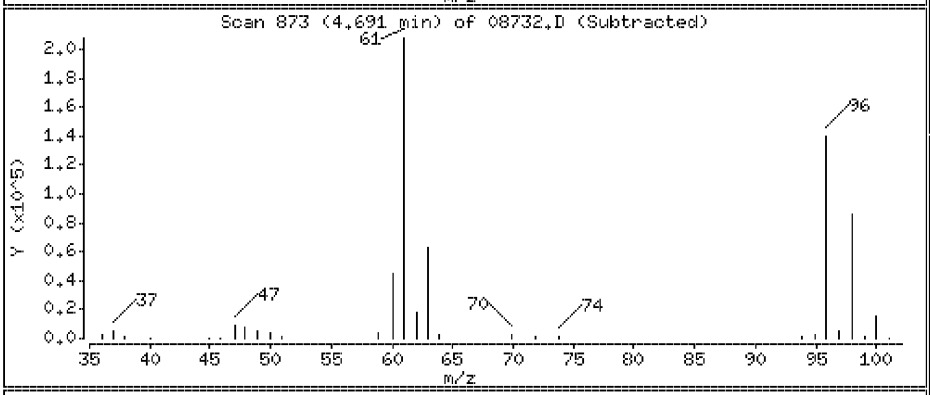
Column diameter: 0.32

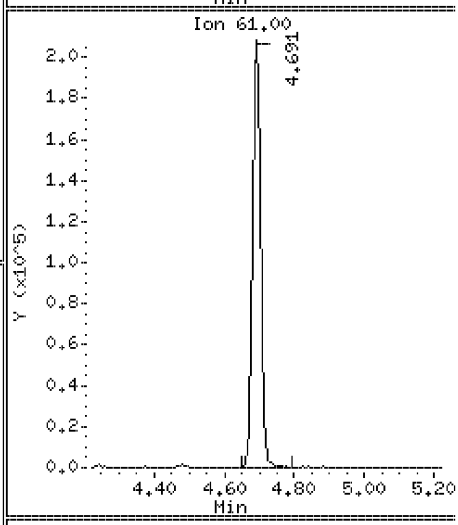
37 cis-1,2-Dichloroethene

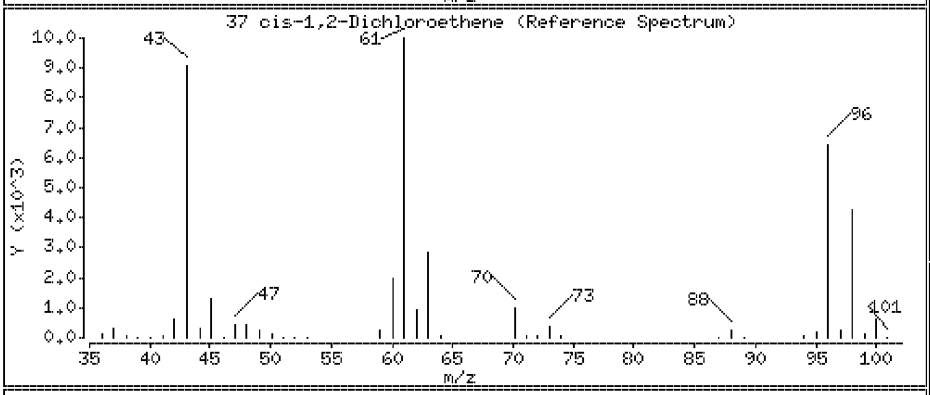
Concentration: 48.0 ppbv

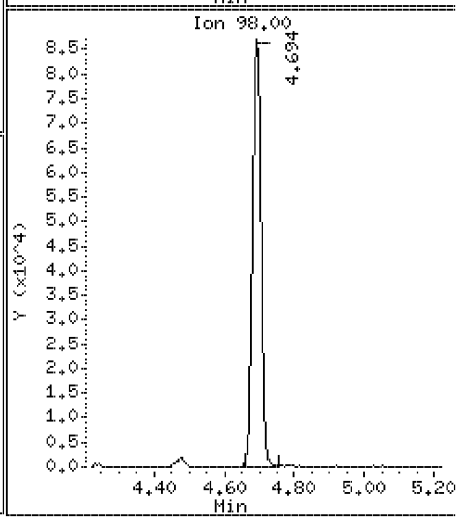


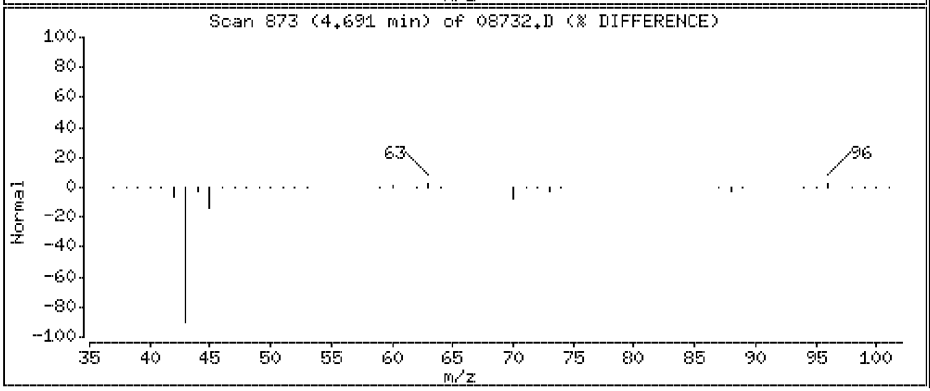












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D

Date : 29-MAR-2017 01:05

Client ID:

Instrument: 10airB.i

Sample Info:

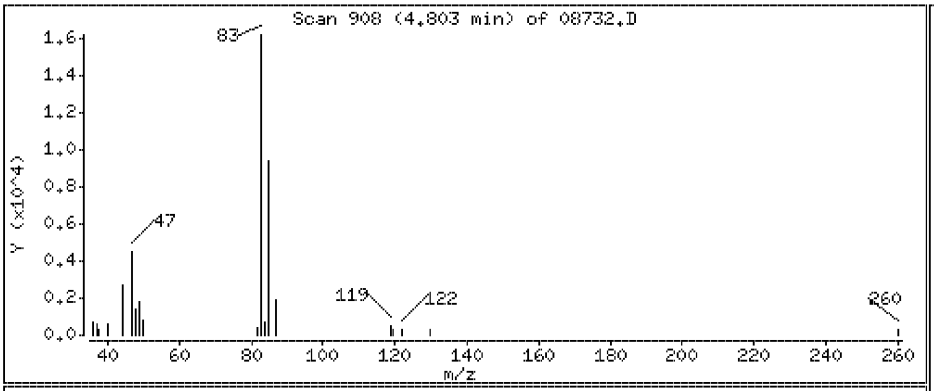
Operator: NCK

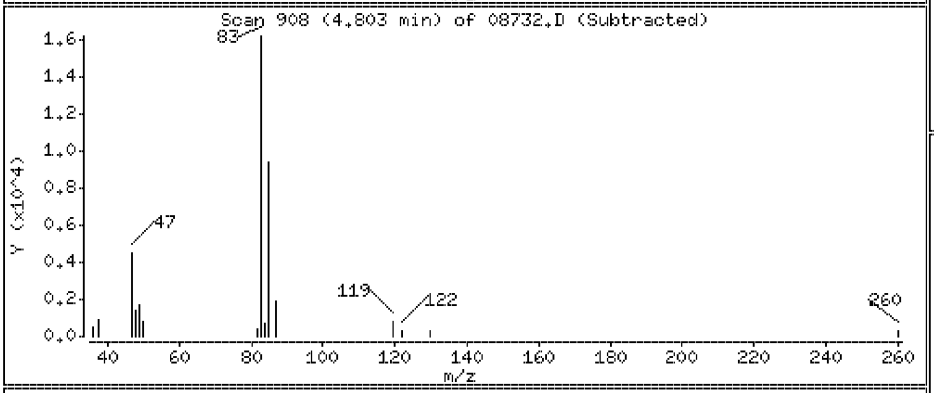
Column phase: J&W DB-5

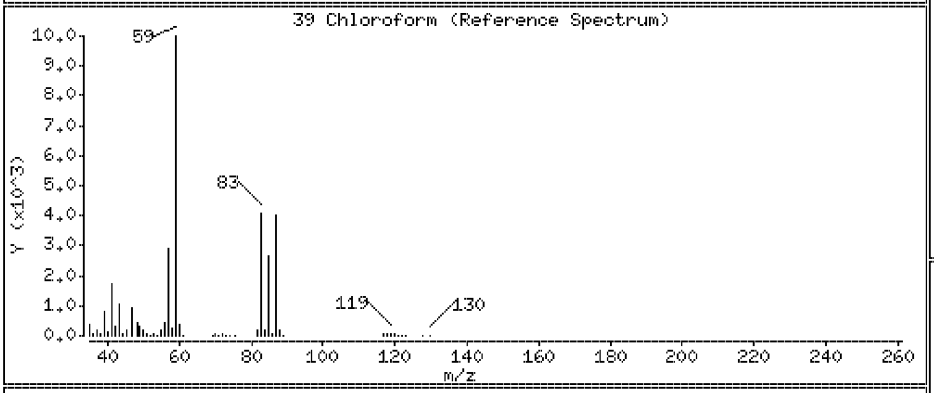
Column diameter: 0.32

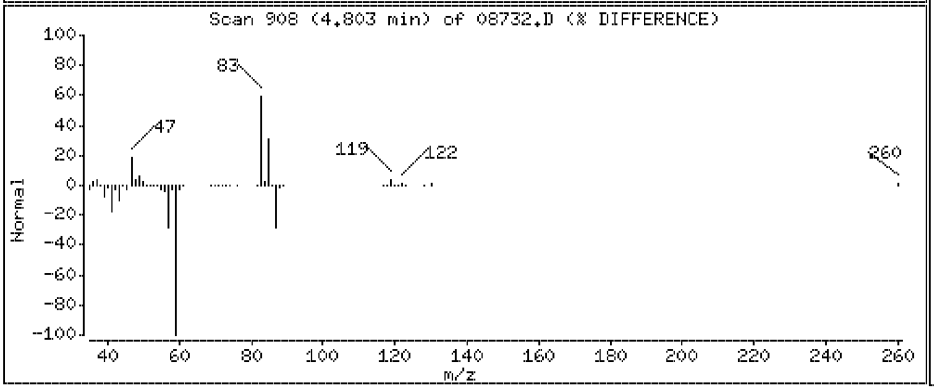
39 Chloroform

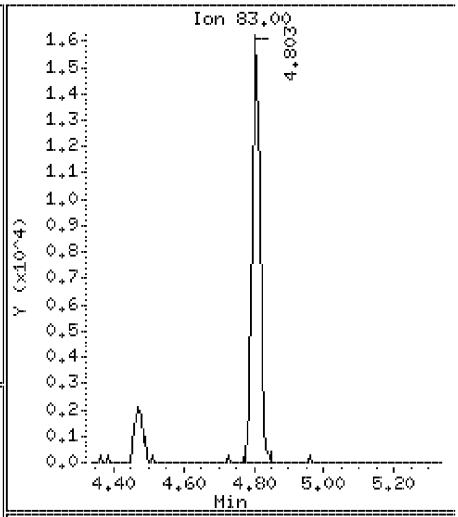
Concentration: 2.67 ppbv

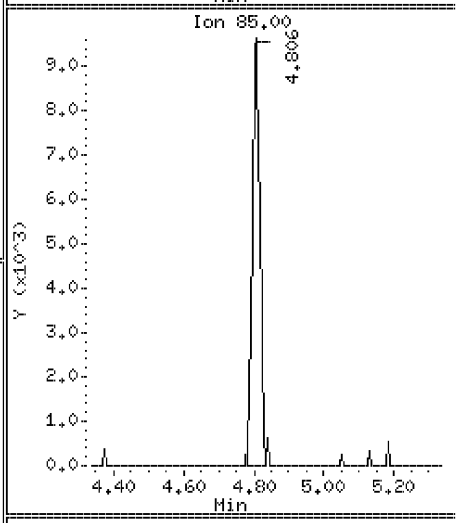


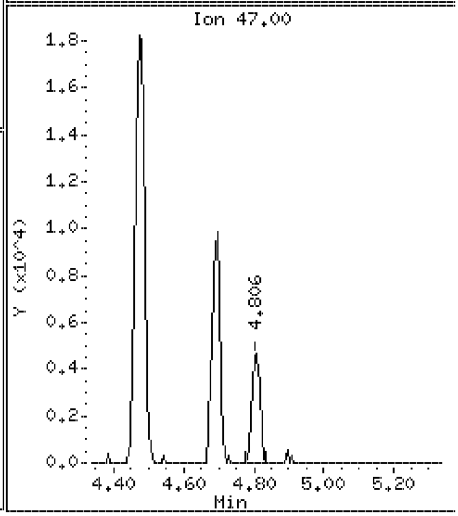












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D

Date : 29-MAR-2017 01:05

Client ID:

Instrument: 10airB.i

Sample Info:

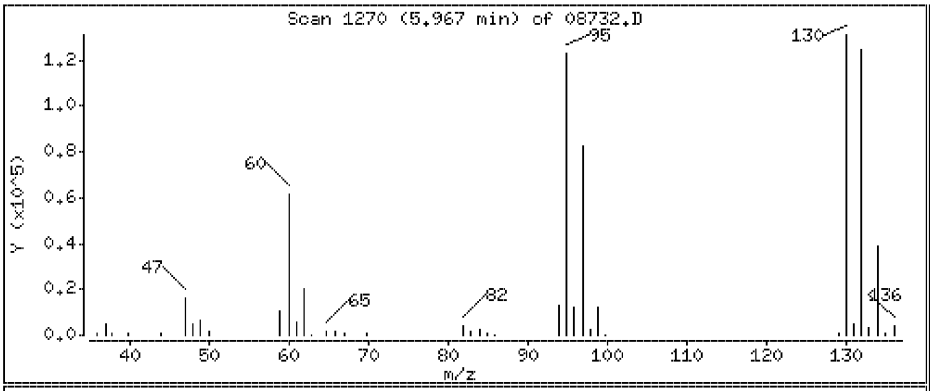
Operator: NCK

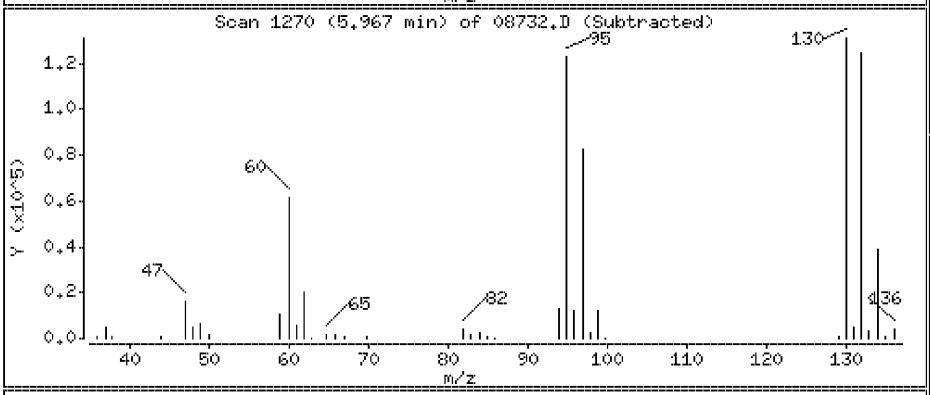
Column phase: J&W DB-5

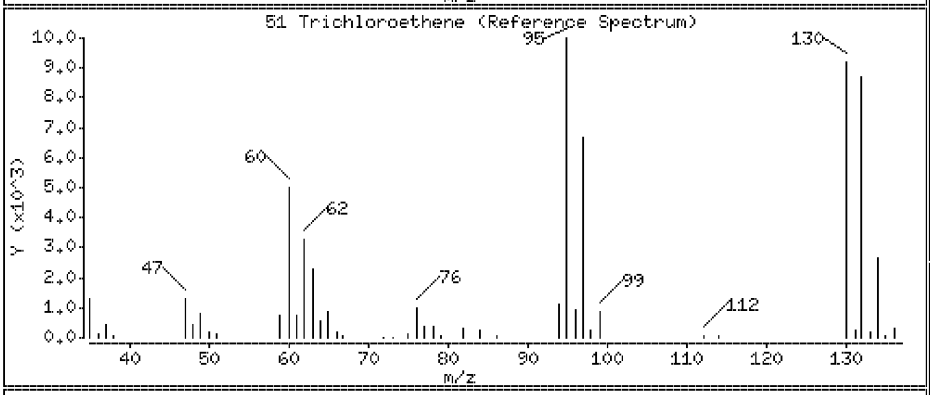
Column diameter: 0.32

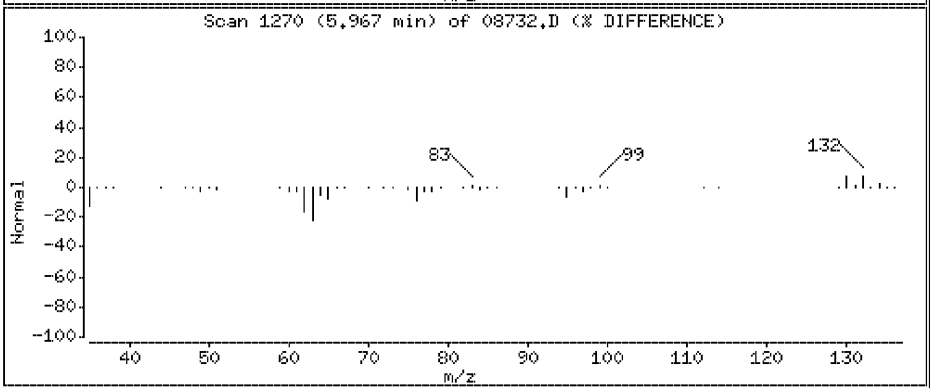
51 Trichloroethene

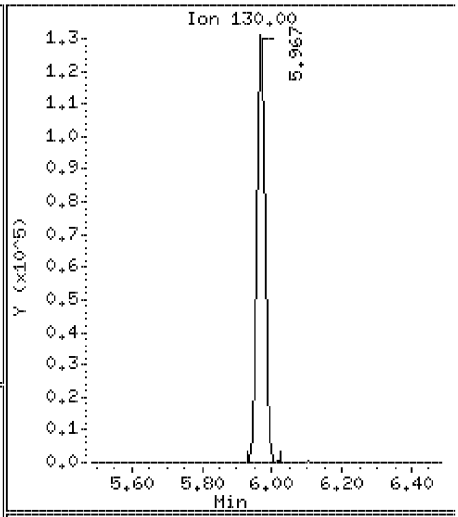
Concentration: 25.4 ppbv

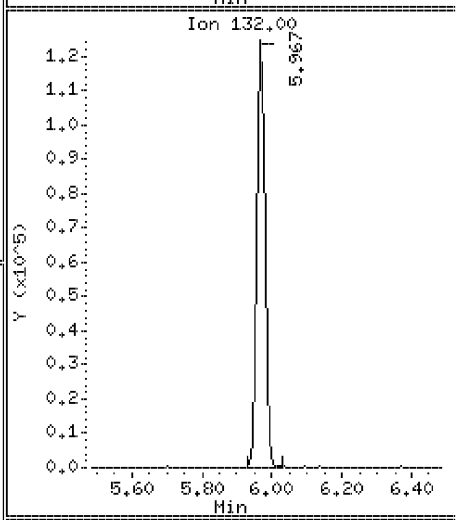


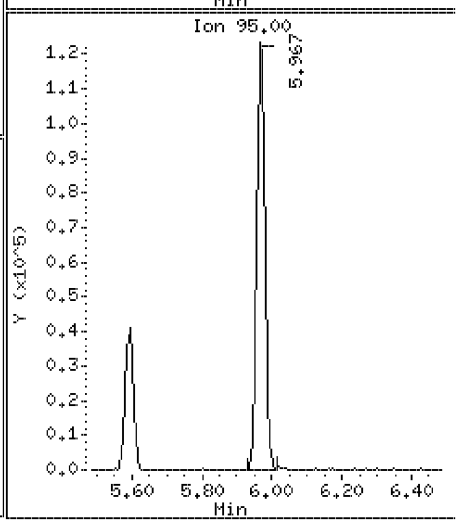












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08732.D

Date : 29-MAR-2017 01:05

Client ID:

Instrument: 10airB.i

Sample Info:

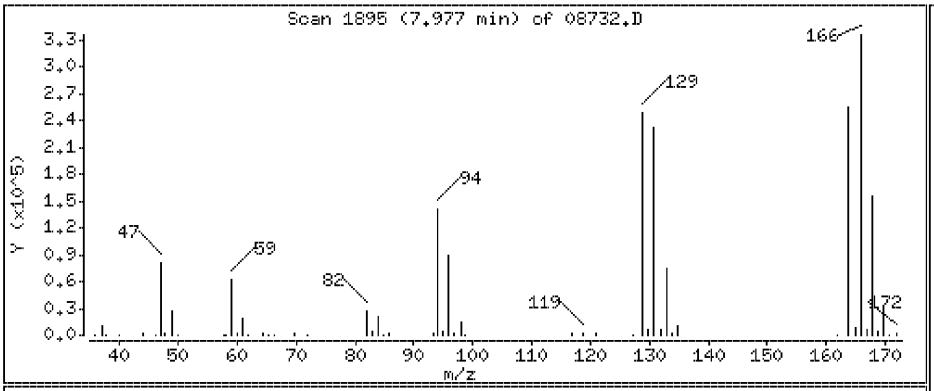
Operator: NCK

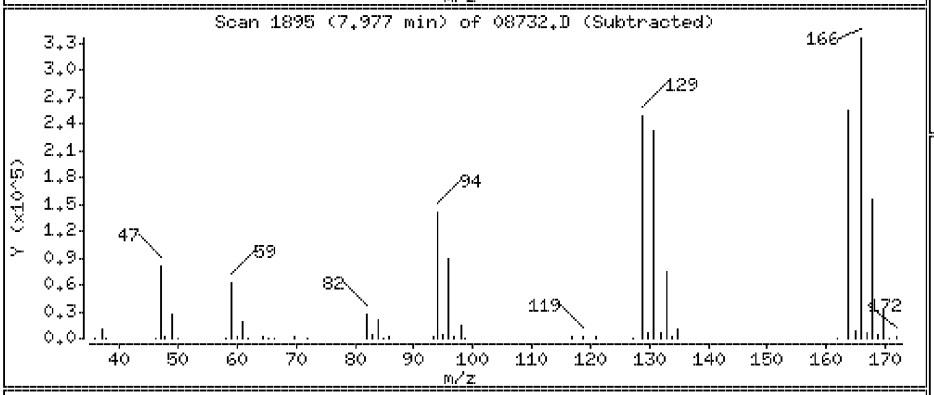
Column phase: J&W DB-5

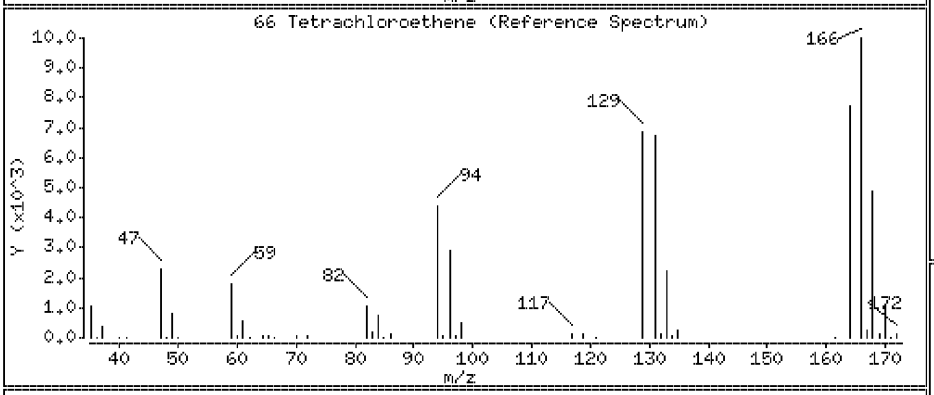
Column diameter: 0.32

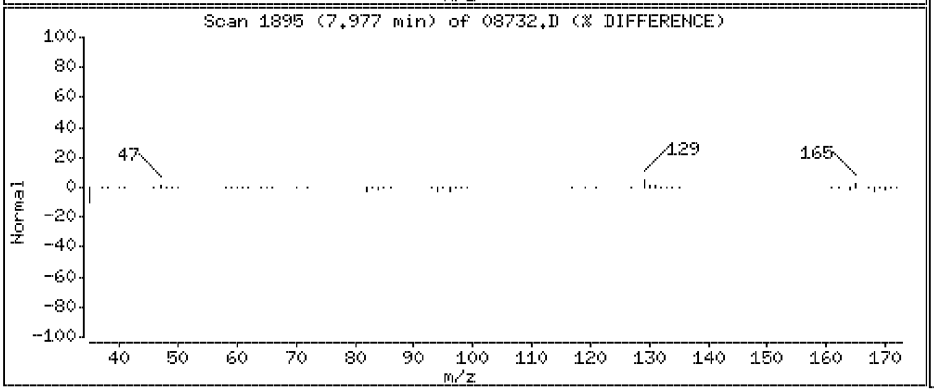
66 Tetrachloroethene

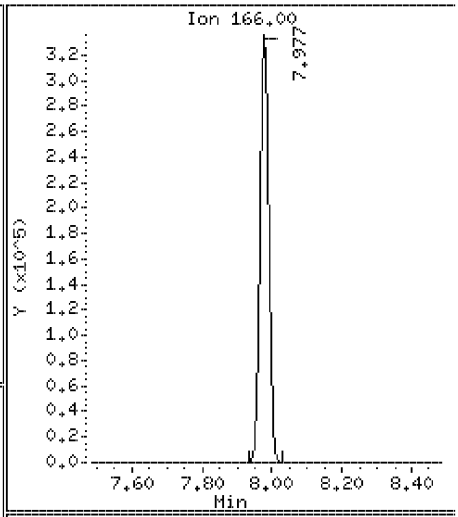
Concentration: 54.0 ppbv

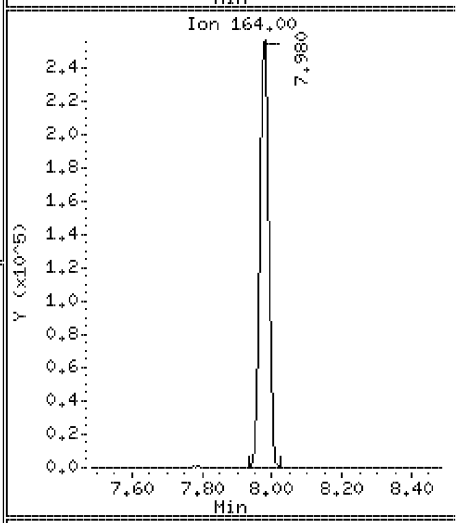


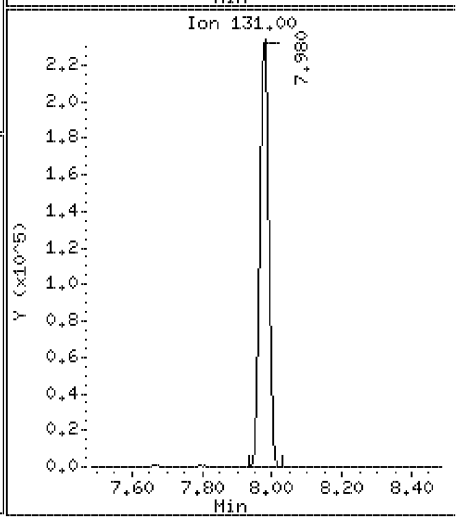






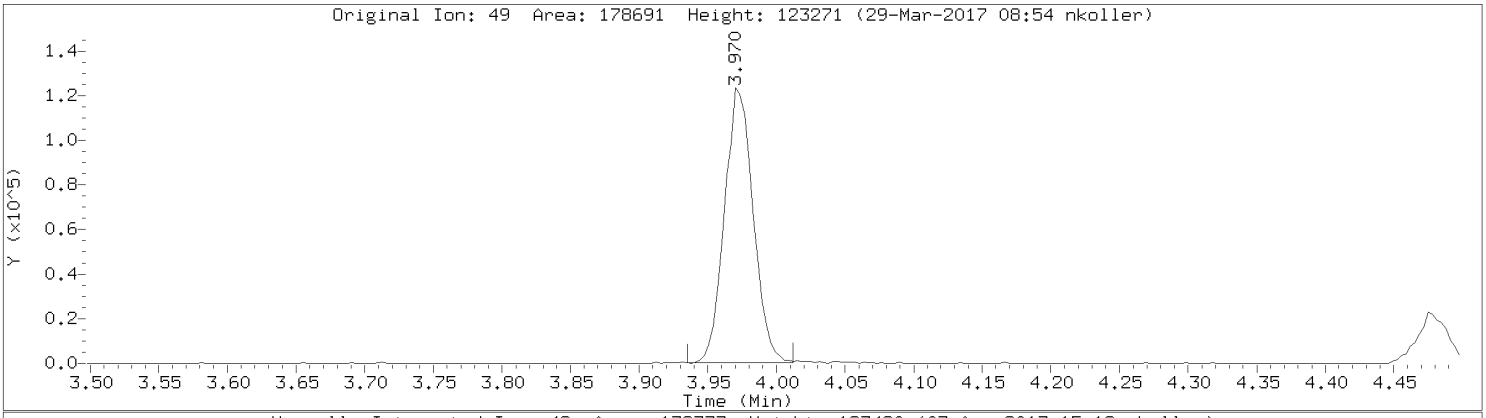


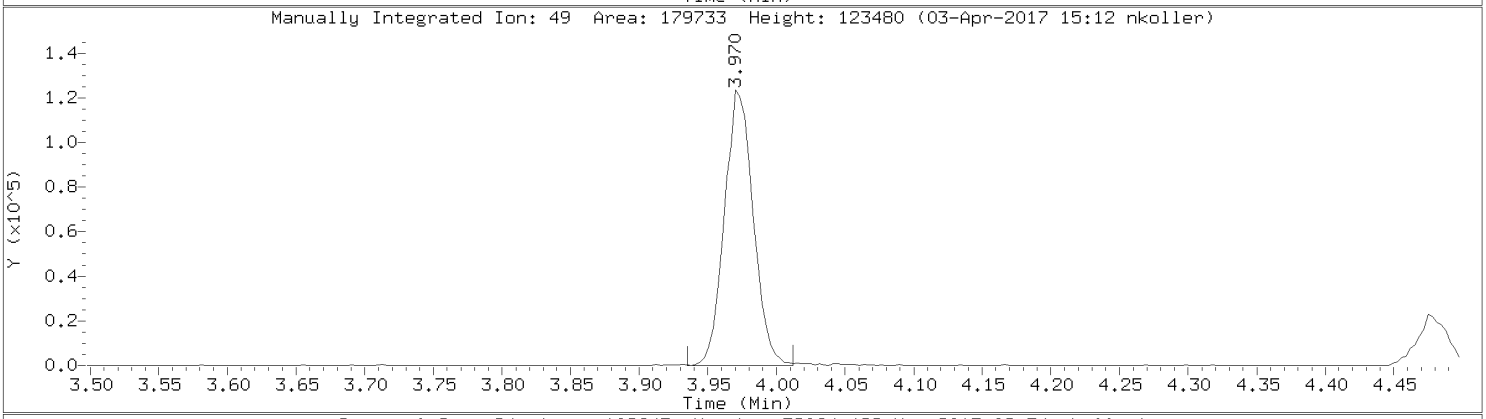


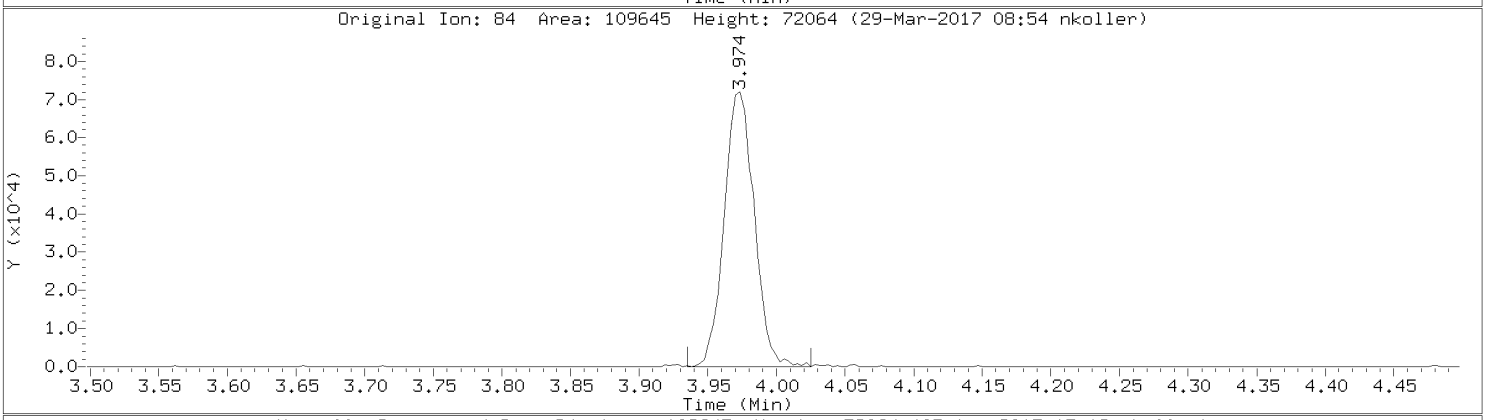


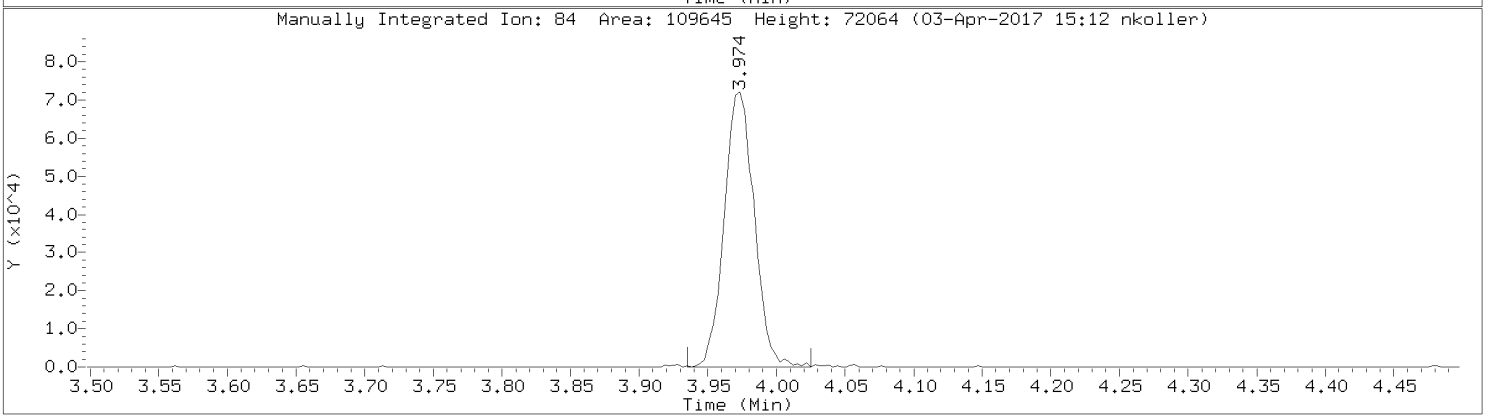
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08732.D
Injection Date: 29-MAR-2017 01:05
Instrument: 10airB.i
Lab Sample ID: 10381335014

Compound: Methylene chloride
CAS Number: 75-09-2

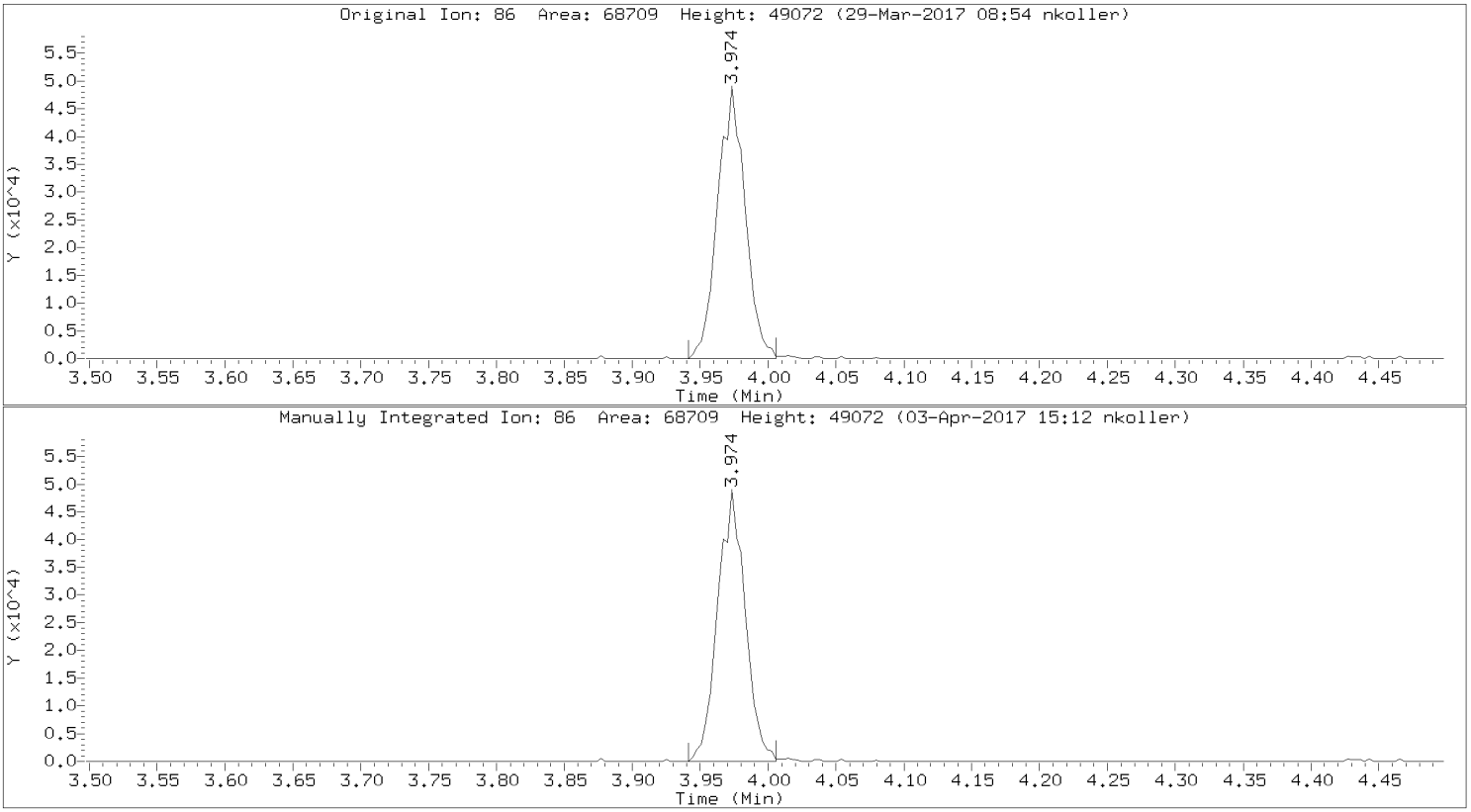








Data File: \\192.168.10.12\chem\10airB.i\032817.b/08732.D
Injection Date: 29-MAR-2017 01:05
Instrument: 10airB.i
Lab Sample ID: 10381335014



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_51_20170307 **Lab ID: 10381335014** Collected: 03/07/17 11:55 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<2.1**	ug/m3	21.9	2.1	8.75		03/29/17 01:05	67-63-0	
Styrene	**<1.7**	ug/m3	7.6	1.7	8.75		03/29/17 01:05	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.9**	ug/m3	6.1	2.9	8.75		03/29/17 01:05	79-34-5	
Tetrachloroethene	**372**	ug/m3	6.0	2.4	8.75		03/29/17 01:05	127-18-4	
Toluene	**<1.3**	ug/m3	6.7	1.3	8.75		03/29/17 01:05	108-88-3	
1,2,4-Trichlorobenzene	**<8.0**	ug/m3	33.0	8.0	8.75		03/29/17 01:05	120-82-1	
1,1,1-Trichloroethane	**<2.2**	ug/m3	9.7	2.2	8.75		03/29/17 01:05	71-55-6	
1,1,2-Trichloroethane	**<2.2**	ug/m3	4.8	2.2	8.75		03/29/17 01:05	79-00-5	
Trichloroethene	**139**	ug/m3	4.8	2.4	8.75		03/29/17 01:05	79-01-6	
Trichlorofluoromethane	**<1.2**	ug/m3	10	1.2	8.75		03/29/17 01:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	**15.8**	ug/m3	14.0	2.6	8.75		03/29/17 01:05	76-13-1	
1,2,4-Trimethylbenzene	**<1.1**	ug/m3	8.7	1.1	8.75		03/29/17 01:05	95-63-6	
1,3,5-Trimethylbenzene	**<1.6**	ug/m3	8.7	1.6	8.75		03/29/17 01:05	108-67-8	
Vinyl chloride	**<1.7**	ug/m3	2.3	1.7	8.75		03/29/17 01:05	75-01-4	
m&p-Xylene	**<6.9**	ug/m3	15.5	6.9	8.75		03/29/17 01:05	179601-23-1	
o-Xylene	**<3.1**	ug/m3	7.7	3.1	8.75		03/29/17 01:05	95-47-6	

Sample: VP-3D_61_20170307 **Lab ID: 10381335015** Collected: 03/07/17 11:53 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.8J**	ug/m3	21.1	7.3	8.75		03/28/17 23:42	67-64-1	
Allyl chloride	**<2.0**	ug/m3	13.9	2.0	8.75		03/28/17 23:42	107-05-1	
Benzene	**<1.1**	ug/m3	2.8	1.1	8.75		03/28/17 23:42	71-43-2	
Bromodichloromethane	**<1.7**	ug/m3	11.9	1.7	8.75		03/28/17 23:42	75-27-4	
Bromoform	**9.9J**	ug/m3	18.4	7.9	8.75		03/28/17 23:42	75-25-2	
Bromomethane	**<2.7**	ug/m3	6.9	2.7	8.75		03/28/17 23:42	74-83-9	
1,3-Butadiene	**<1.5**	ug/m3	3.9	1.5	8.75		03/28/17 23:42	106-99-0	
2-Butanone (MEK)	**<2.0**	ug/m3	26.2	2.0	8.75		03/28/17 23:42	78-93-3	
Carbon disulfide	**<0.88**	ug/m3	5.5	0.88	8.75		03/28/17 23:42	75-15-0	
Carbon tetrachloride	**<1.7**	ug/m3	5.6	1.7	8.75		03/28/17 23:42	56-23-5	
Chlorobenzene	**<1.2**	ug/m3	8.2	1.2	8.75		03/28/17 23:42	108-90-7	
Chlorodifluoromethane	**<2.4**	ug/m3	6.3	2.4	8.75		03/28/17 23:42	75-45-6	
Chloroethane	**<1.7**	ug/m3	4.7	1.7	8.75		03/28/17 23:42	75-00-3	
Chloroform	**7.5**	ug/m3	4.3	1.7	8.75		03/28/17 23:42	67-66-3	
Chloromethane	**<0.94**	ug/m3	3.7	0.94	8.75		03/28/17 23:42	74-87-3	
Chloropentafluoroethane	**<28.1**	ug/m3	28.1	28.1	8.75		03/28/17 23:42	76-15-3	
Cyclohexane	**<2.8**	ug/m3	6.1	2.8	8.75		03/28/17 23:42	110-82-7	
1,2-Dibromo-3-chloropropane	**<43.0**	ug/m3	43.0	43.0	8.75		03/28/17 23:42	96-12-8	
Dibromochloromethane	**17.3**	ug/m3	15.1	7.5	8.75		03/28/17 23:42	124-48-1	
1,2-Dibromoethane (EDB)	**<6.8**	ug/m3	13.6	6.8	8.75		03/28/17 23:42	106-93-4	
1,2-Dichlorobenzene	**<4.5**	ug/m3	10.7	4.5	8.75		03/28/17 23:42	95-50-1	
1,3-Dichlorobenzene	**<4.6**	ug/m3	10.7	4.6	8.75		03/28/17 23:42	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_61_20170307 **Lab ID: 10381335015** Collected: 03/07/17 11:53 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<4.4**	ug/m3	10.7	4.4	8.75		03/28/17 23:42	106-46-7	
Dichlorodifluoromethane	**6.5J**	ug/m3	8.8	4.2	8.75		03/28/17 23:42	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/m3	7.2	1.4	8.75		03/28/17 23:42	75-34-3	
1,2-Dichloroethane	**<1.8**	ug/m3	3.6	1.8	8.75		03/28/17 23:42	107-06-2	
1,1-Dichloroethene	**<2.1**	ug/m3	7.1	2.1	8.75		03/28/17 23:42	75-35-4	
cis-1,2-Dichloroethene	**133**	ug/m3	7.1	2.2	8.75		03/28/17 23:42	156-59-2	
trans-1,2-Dichloroethene	**<3.4**	ug/m3	7.1	3.4	8.75		03/28/17 23:42	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/m3	8.2	2.4	8.75		03/28/17 23:42	78-87-5	
cis-1,3-Dichloropropene	**<3.2**	ug/m3	8.0	3.2	8.75		03/28/17 23:42	10061-01-5	
trans-1,3-Dichloropropene	**<2.3**	ug/m3	20.2	2.3	8.75		03/28/17 23:42	10061-02-6	
Dichlorotetrafluoroethane	**<2.7**	ug/m3	12.4	2.7	8.75		03/28/17 23:42	76-14-2	
Freon 123	**<27.8**	ug/m3	27.8	27.8	8.75		03/28/17 23:42	306-83-2	
1,4-Dioxane (p-Dioxane)	**<3.1**	ug/m3	32.0	3.1	8.75		03/28/17 23:42	123-91-1	
Ethylbenzene	**<3.7**	ug/m3	7.7	3.7	8.75		03/28/17 23:42	100-41-4	
4-Ethyltoluene	**<1.6**	ug/m3	8.8	1.6	8.75		03/28/17 23:42	622-96-8	
Hexachloro-1,3-butadiene	**<5.7**	ug/m3	19.0	5.7	8.75		03/28/17 23:42	87-68-3	
n-Hexane	**<3.1**	ug/m3	6.3	3.1	8.75		03/28/17 23:42	110-54-3	
2-Hexanone	**<3.6**	ug/m3	36.4	3.6	8.75		03/28/17 23:42	591-78-6	
Isopropylbenzene (Cumene)	**<1.2**	ug/m3	21.9	1.2	8.75		03/28/17 23:42	98-82-8	
Methyl acetate	**<13.5**	ug/m3	13.5	13.5	8.75		03/28/17 23:42	79-20-9	
Methylcyclohexane	**<2.1**	ug/m3	7.1	2.1	8.75		03/28/17 23:42	108-87-2	
Methylene Chloride	**125**	ug/m3	30.9	4.7	8.75		03/28/17 23:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.9**	ug/m3	36.4	1.9	8.75		03/28/17 23:42	108-10-1	
Methyl-tert-butyl ether	**<2.7**	ug/m3	32.1	2.7	8.75		03/28/17 23:42	1634-04-4	
2-Propanol	**<2.1**	ug/m3	21.9	2.1	8.75		03/28/17 23:42	67-63-0	
Styrene	**<1.7**	ug/m3	7.6	1.7	8.75		03/28/17 23:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.9**	ug/m3	6.1	2.9	8.75		03/28/17 23:42	79-34-5	
Tetrachloroethene	**611**	ug/m3	6.0	2.4	8.75		03/28/17 23:42	127-18-4	
Toluene	**<1.3**	ug/m3	6.7	1.3	8.75		03/28/17 23:42	108-88-3	
1,2,4-Trichlorobenzene	**<8.0**	ug/m3	33.0	8.0	8.75		03/28/17 23:42	120-82-1	
1,1,1-Trichloroethane	**<2.2**	ug/m3	9.7	2.2	8.75		03/28/17 23:42	71-55-6	
1,1,2-Trichloroethane	**<2.2**	ug/m3	4.8	2.2	8.75		03/28/17 23:42	79-00-5	
Trichloroethene	**242**	ug/m3	4.8	2.4	8.75		03/28/17 23:42	79-01-6	
Trichlorofluoromethane	**<1.2**	ug/m3	10	1.2	8.75		03/28/17 23:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**28.8**	ug/m3	14.0	2.6	8.75		03/28/17 23:42	76-13-1	
1,2,4-Trimethylbenzene	**<1.1**	ug/m3	8.7	1.1	8.75		03/28/17 23:42	95-63-6	
1,3,5-Trimethylbenzene	**<1.6**	ug/m3	8.7	1.6	8.75		03/28/17 23:42	108-67-8	
Vinyl chloride	**<1.7**	ug/m3	2.3	1.7	8.75		03/28/17 23:42	75-01-4	
m&p-Xylene	**<6.9**	ug/m3	15.5	6.9	8.75		03/28/17 23:42	179601-23-1	
o-Xylene	**<3.1**	ug/m3	7.7	3.1	8.75		03/28/17 23:42	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D
Report Date: 03-Apr-2017 15:11

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08729.D
Lab Smp Id: 10381335015
Inj Date : 28-MAR-2017 23:42
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 29
Dil Factor: 8.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	8.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.034	3.028	(0.542)	18334	0.14705	1.29	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.558	3.539	(0.636)	5278	0.35145	3.08	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.732	3.713	(0.667)	33035	0.55827	4.88	(M)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.918	3.938	(0.701)	29614	0.42257	3.70	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D
Report Date: 03-Apr-2017 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.970	3.999	(0.710)	182917	4.03231	35.3	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.471	4.478	(0.799)	814441	9.58565	9.59	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.690	4.722	(0.838)	141277	3.76044	32.9(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.803	4.838	(0.859)	12913	0.17327	1.52	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.594	5.610	(1.000)	2264942	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.967	5.986	(1.067)	347243	5.06474	44.3	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.073	(1.263)	1864586	9.76501	9.77	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	7.668	7.677	(0.888)	21268	0.22834	2.00	
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	892992	10.1309	88.6	
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1345900	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	9.471	9.478	(1.097)	7704	0.10716	0.938	
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D
Report Date: 03-Apr-2017 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	517639	8.10174	8.10	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D
Report Date: 03-Apr-2017 15:11

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08729.D
Lab Smp Id: 10381335015
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

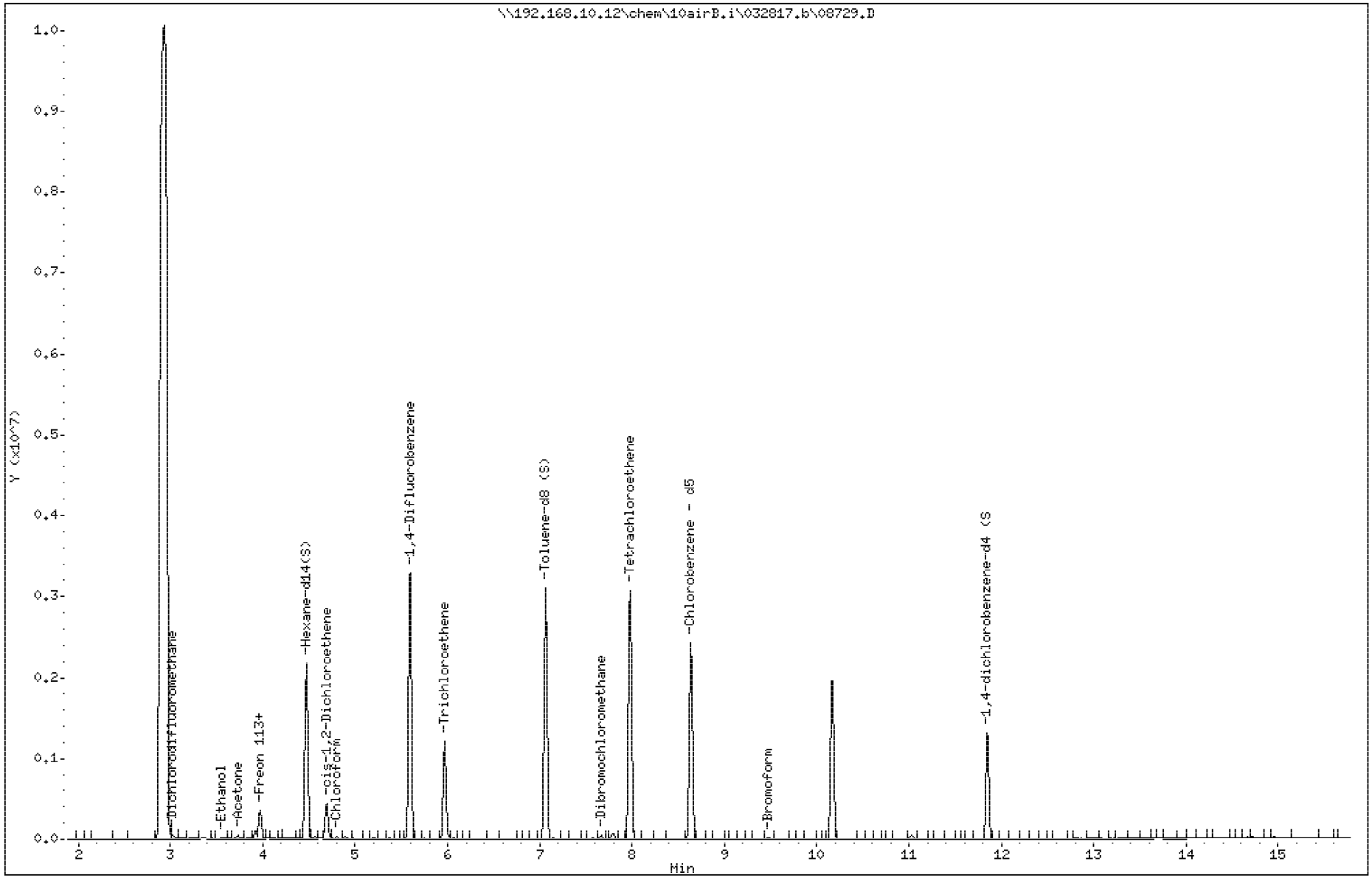
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2264942	-20.02
67 Chlorobenzene - d	1804482	1082689	2526275	1345900	-25.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.28
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D
Date : 28-MAR-2017 23:42
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

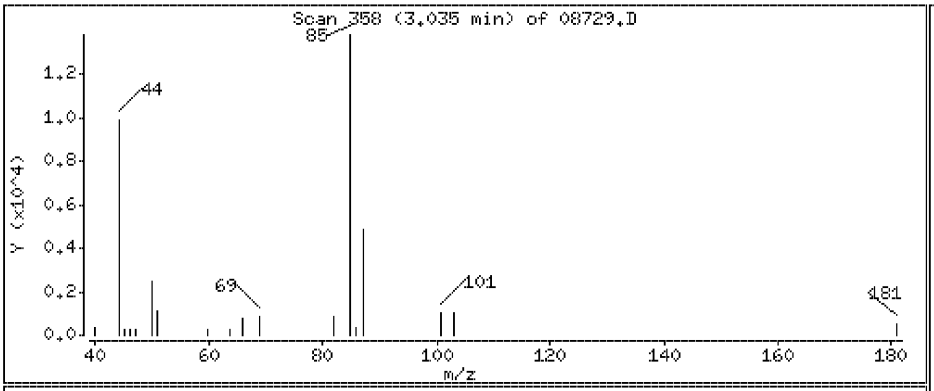
Operator: NCK

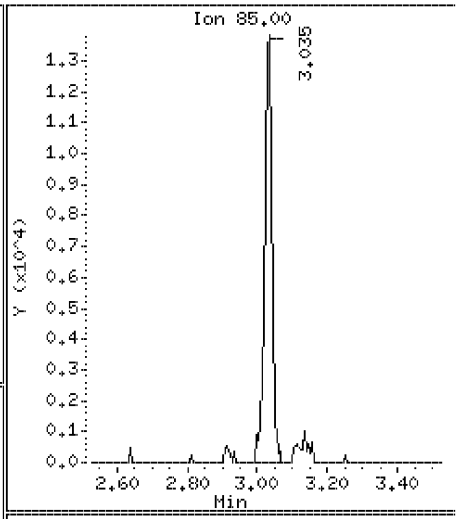
Column phase: J&W DB-5

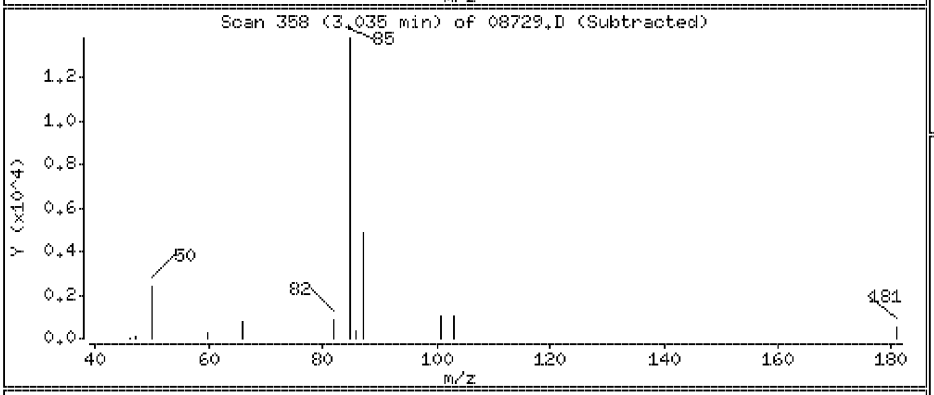
Column diameter: 0.32

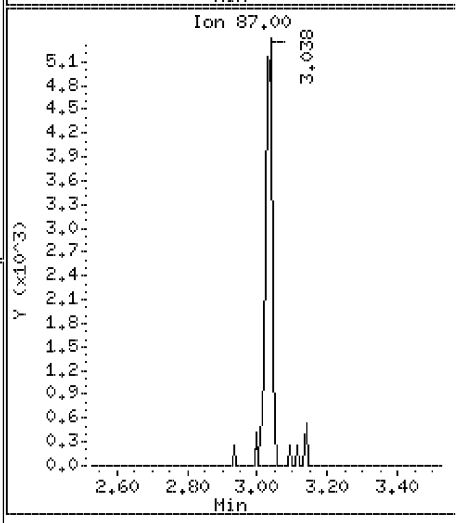
5 Dichlorodifluoromethane

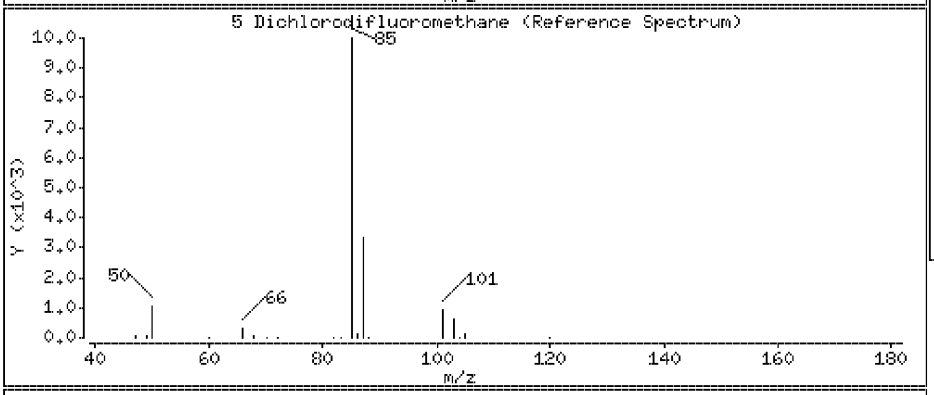
Concentration: 1.29 ppbv

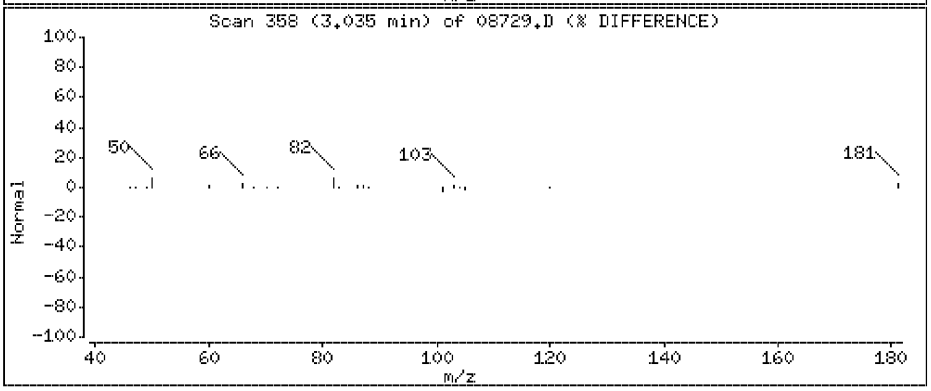












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

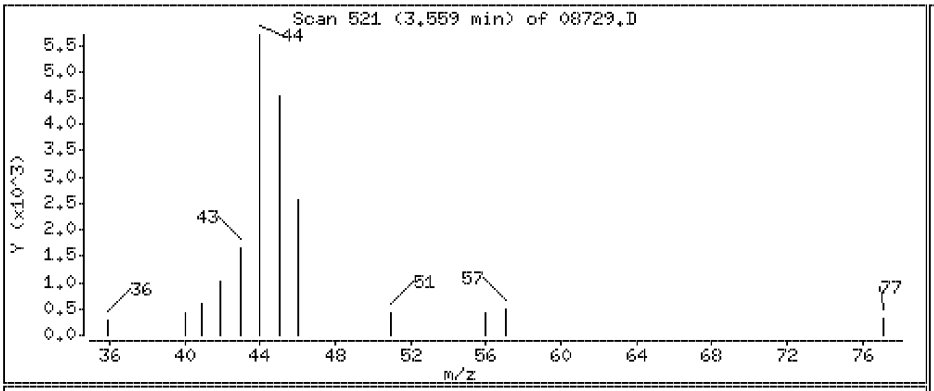
Operator: NCK

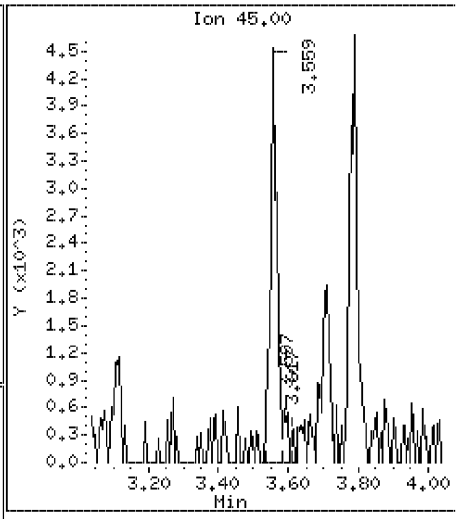
Column phase: J&W DB-5

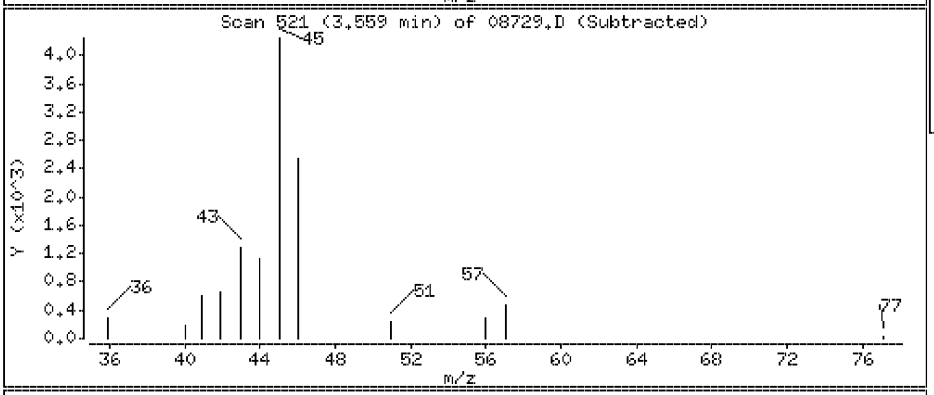
Column diameter: 0.32

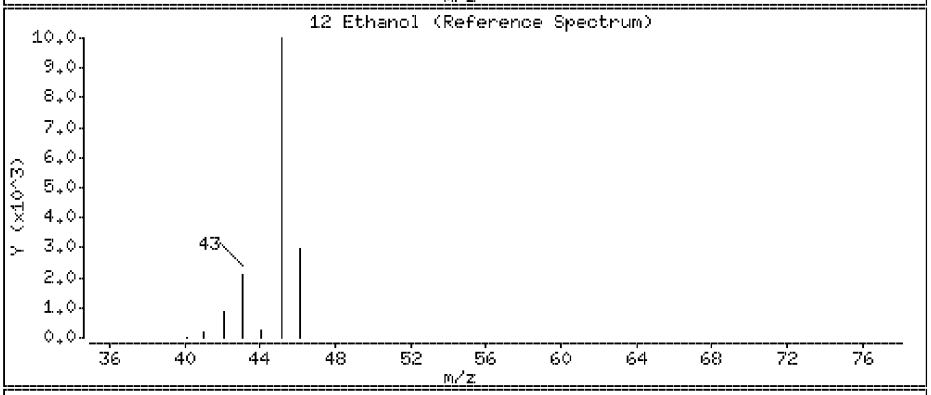
12 Ethanol

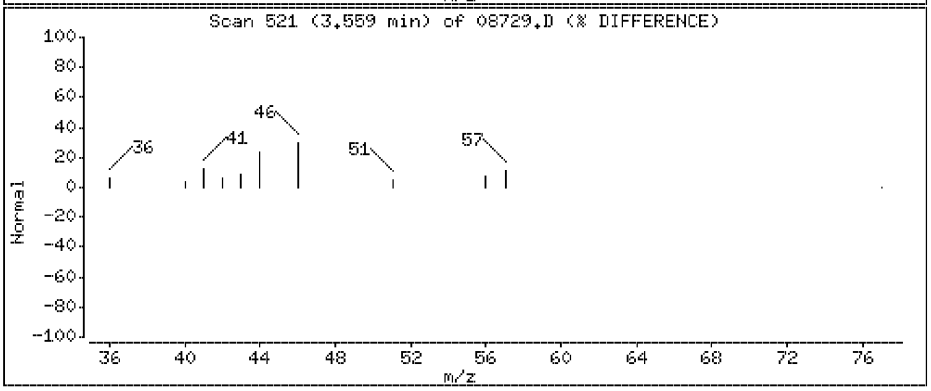
Concentration: 3.08 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

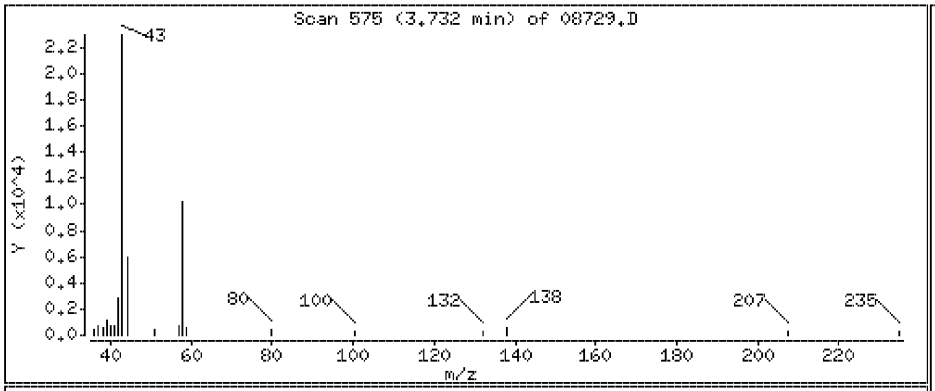
Operator: NCK

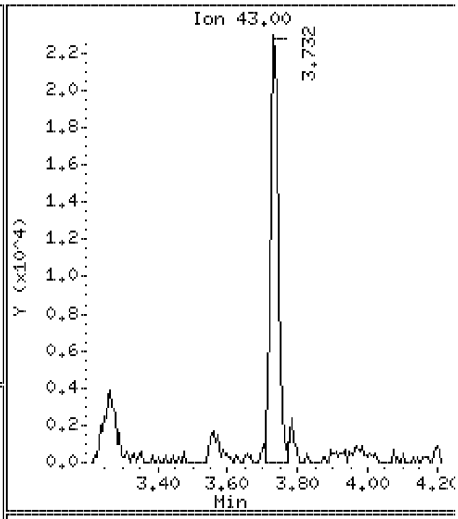
Column phase: J&W DB-5

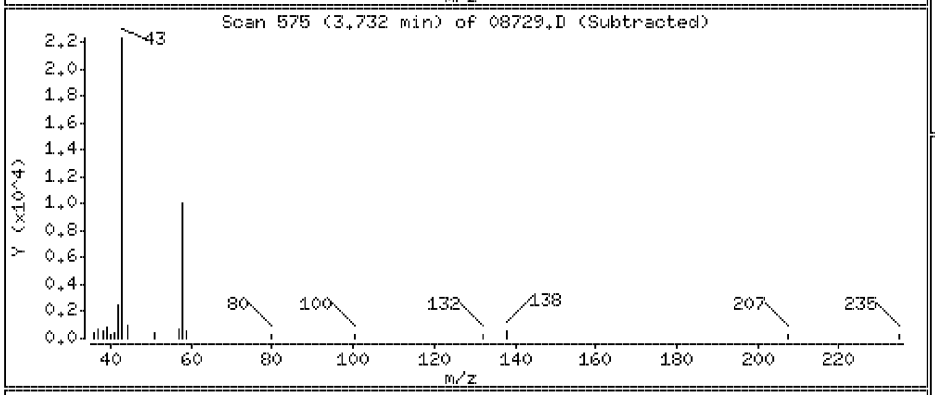
Column diameter: 0.32

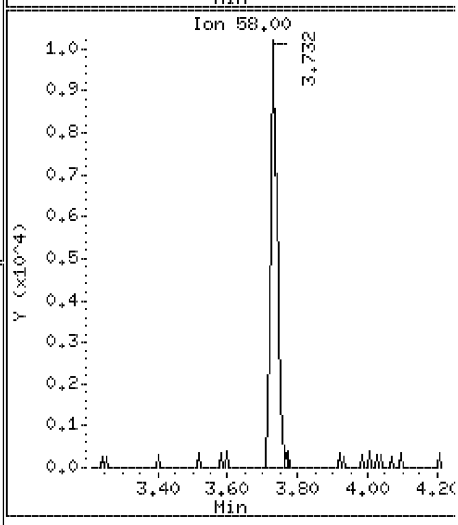
18 Acetone

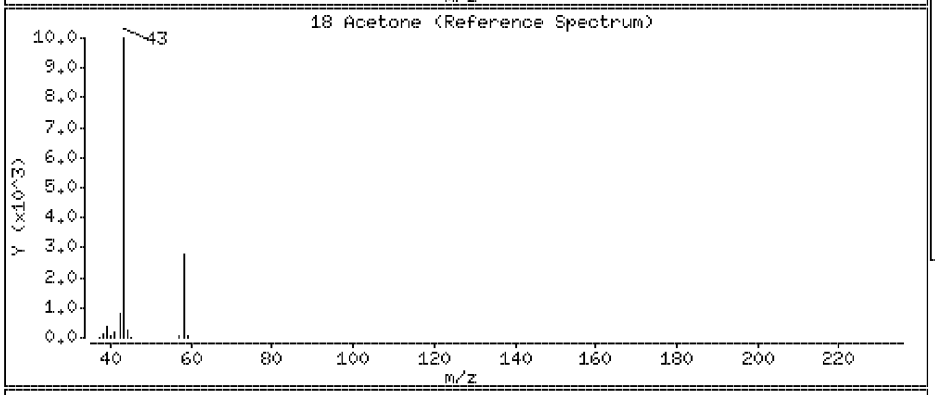
Concentration: 4.88 ppbv

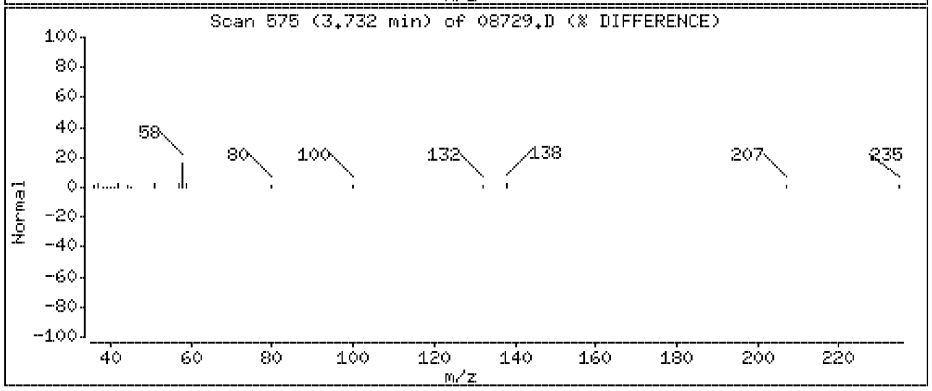












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

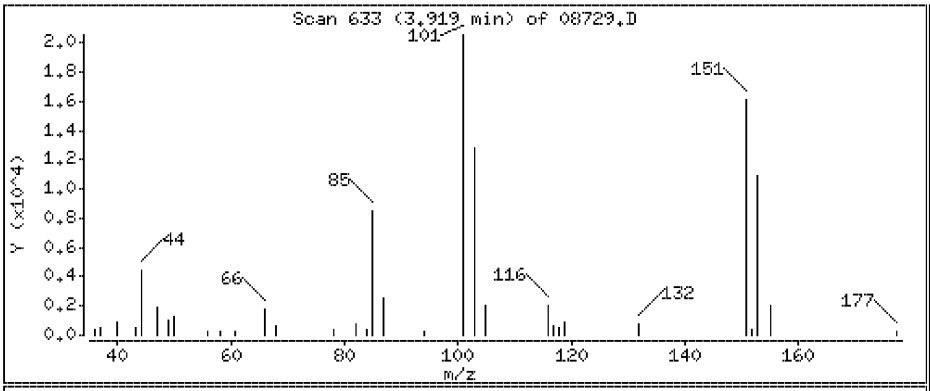
Operator: NCK

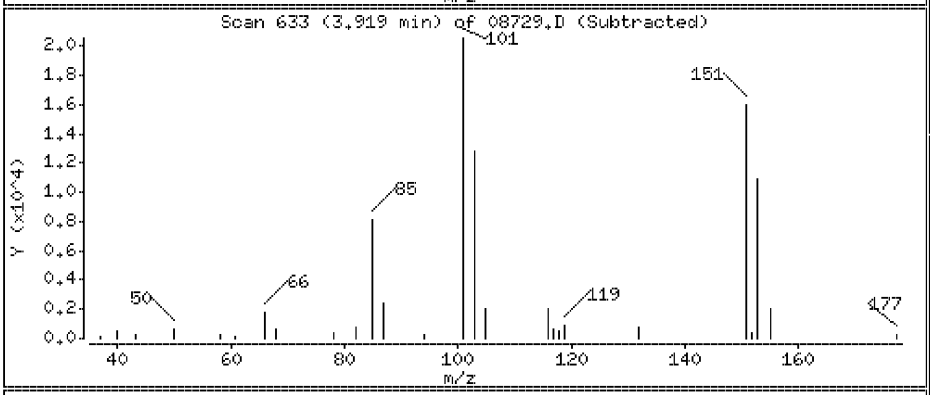
Column phase: J&W DB-5

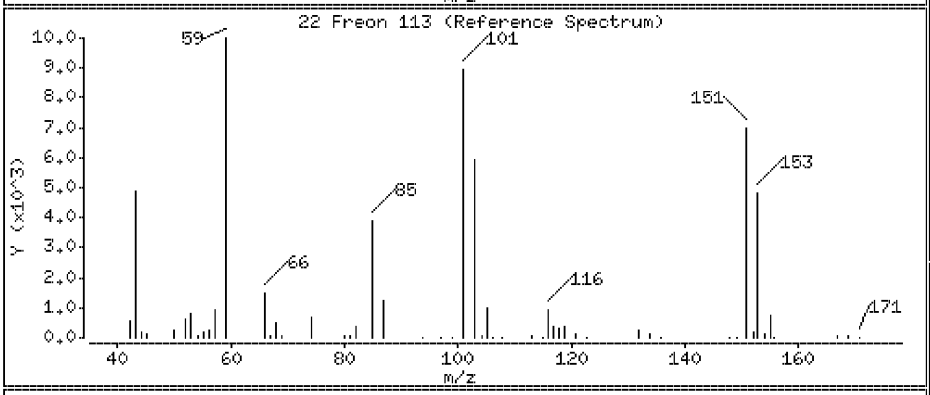
Column diameter: 0.32

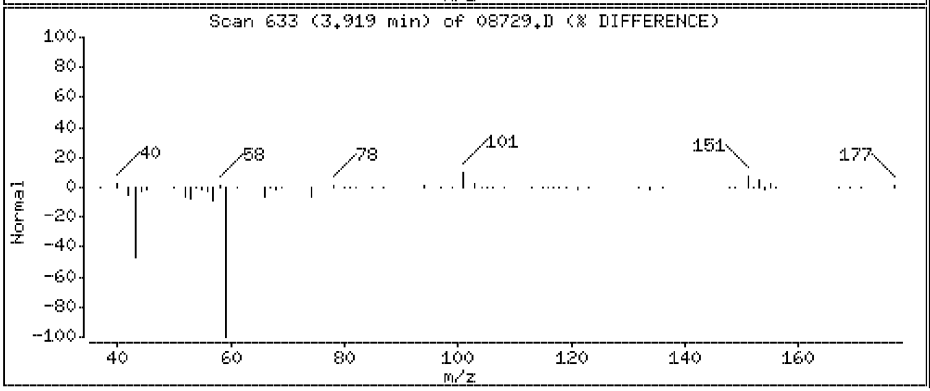
22 Freon 113

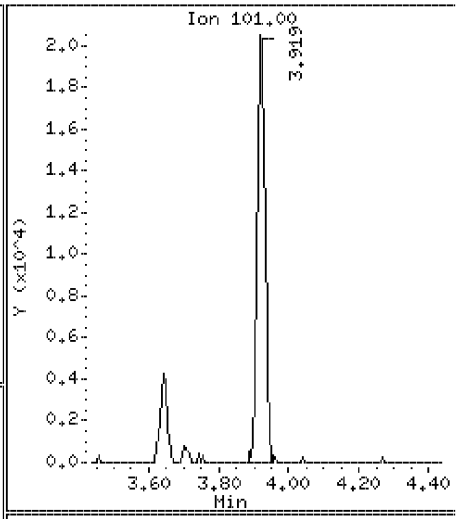
Concentration: 3.70 ppbv

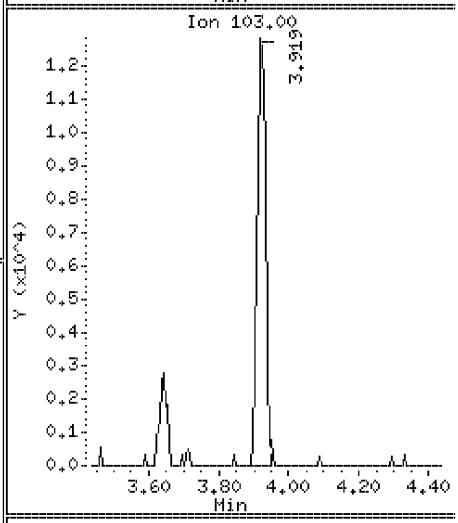


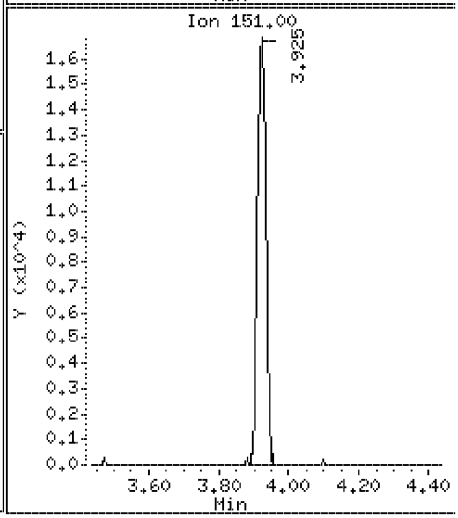












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

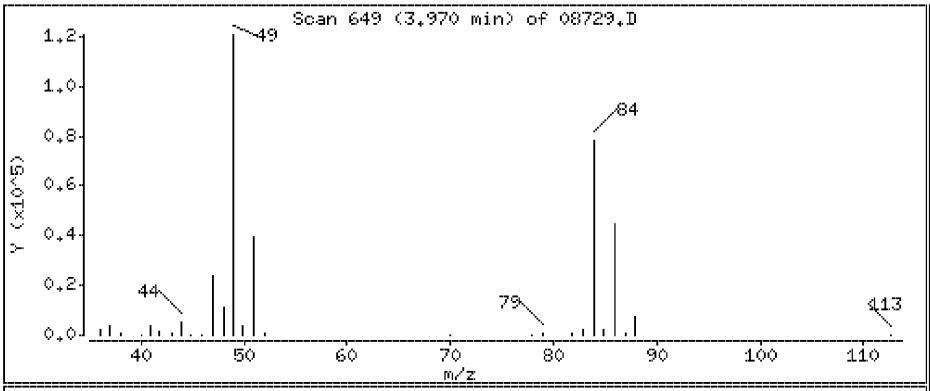
Operator: NCK

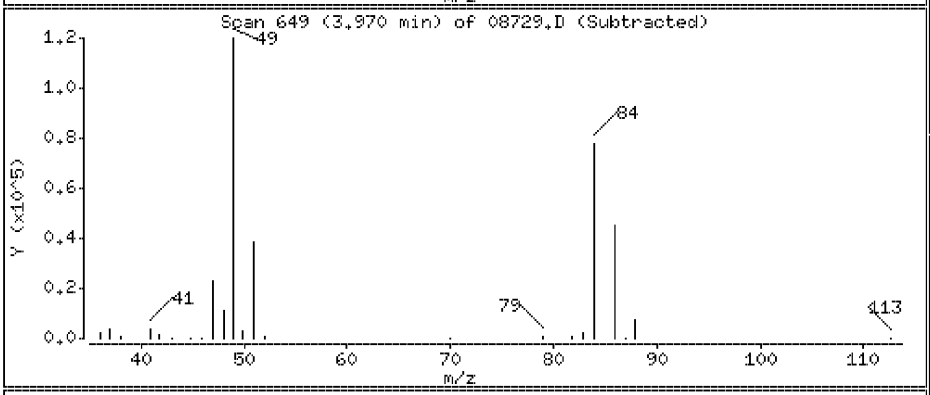
Column phase: J&W DB-5

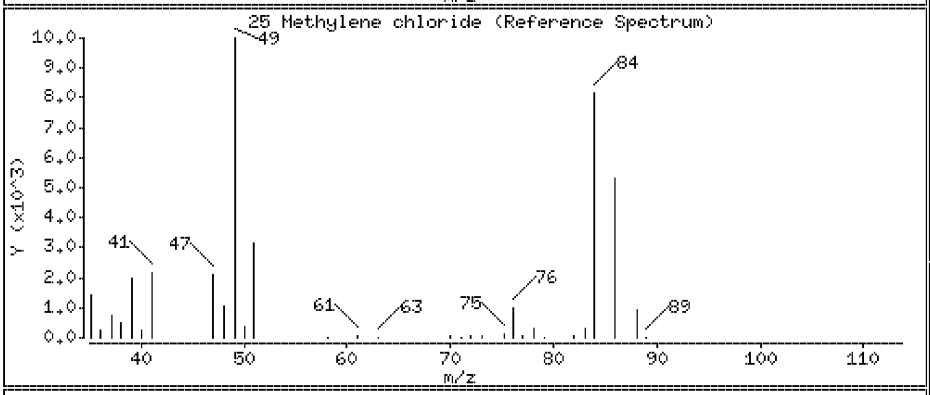
Column diameter: 0.32

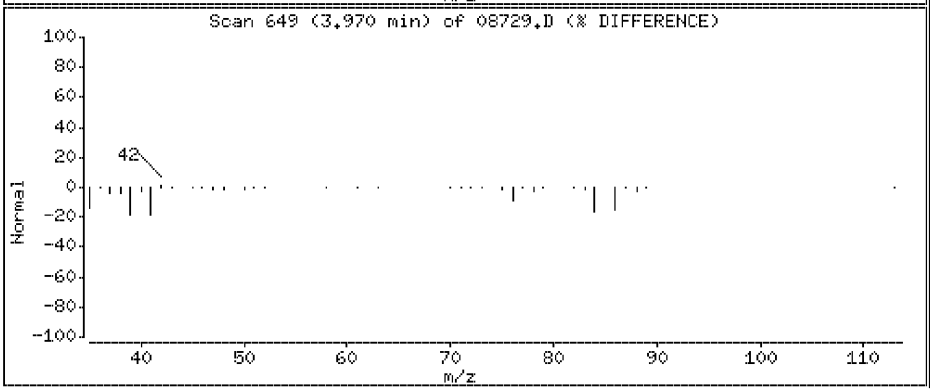
25 Methylene chloride

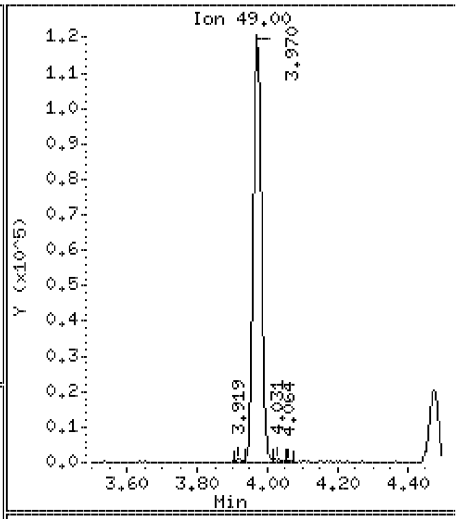
Concentration: 35.3 ppbv

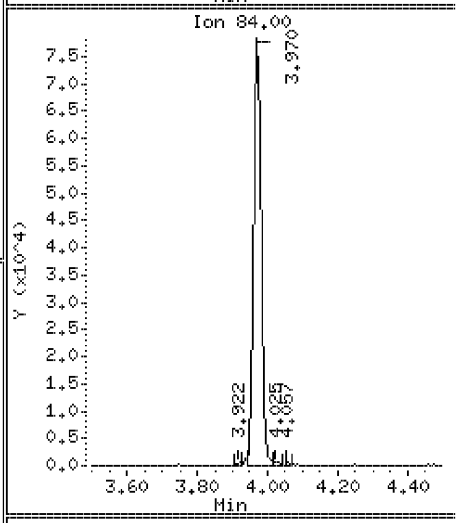


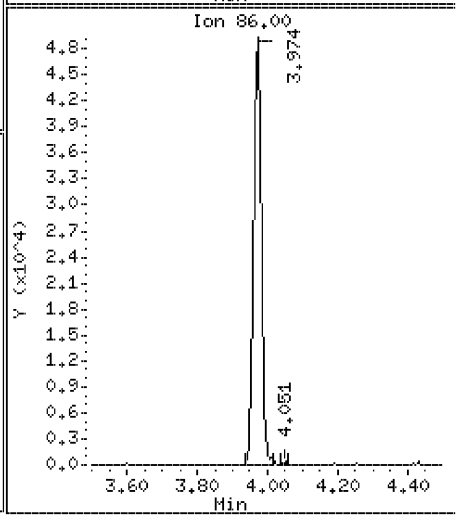












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

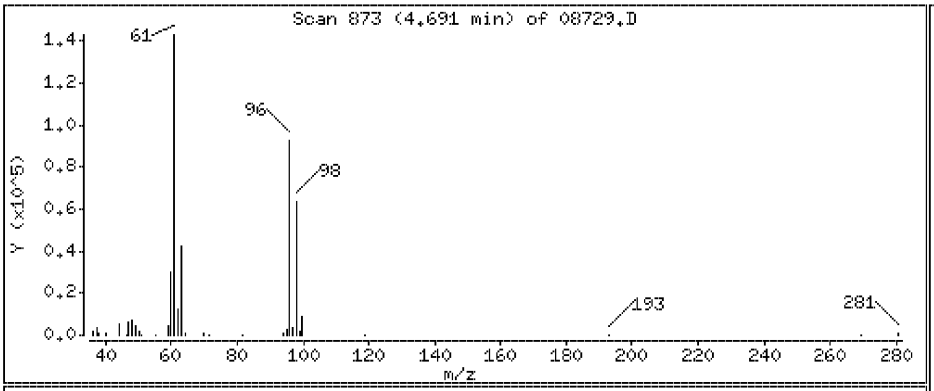
Operator: NCK

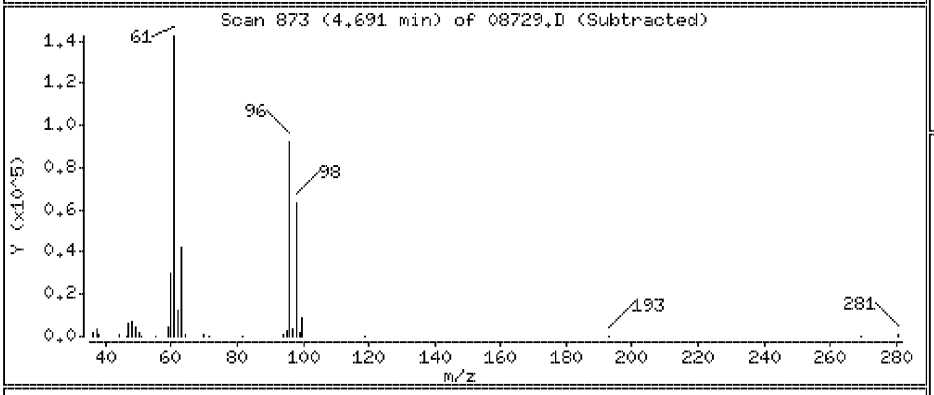
Column phase: J&W DB-5

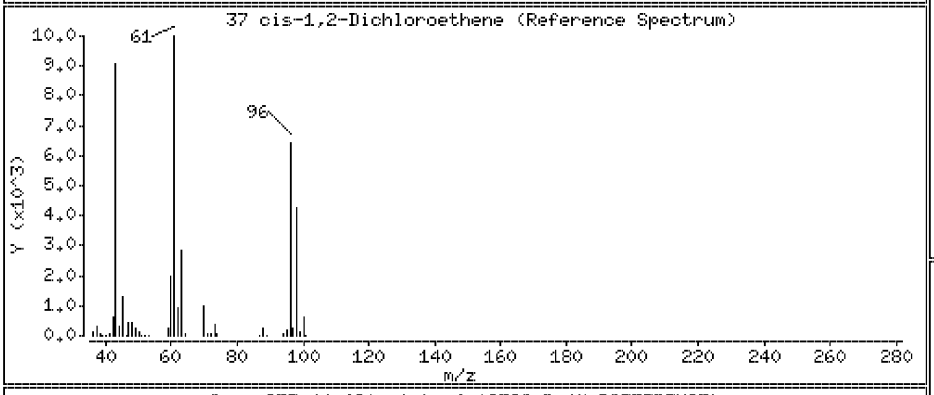
Column diameter: 0.32

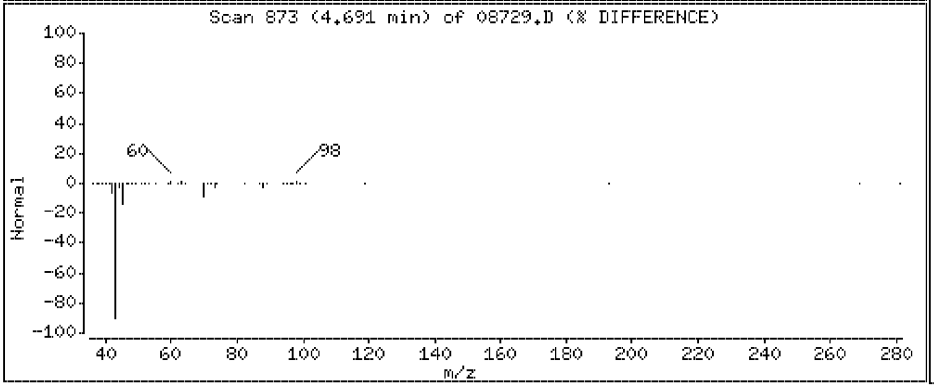
37 cis-1,2-Dichloroethene

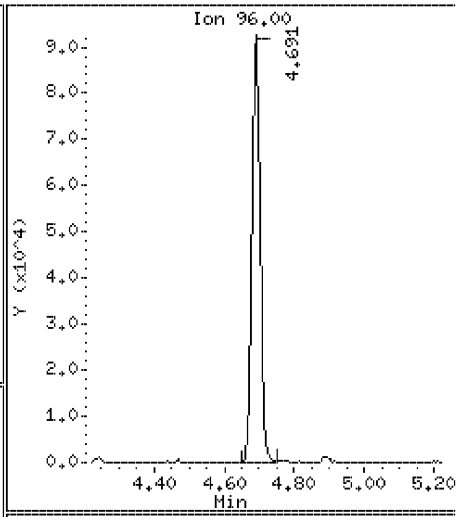
Concentration: 32.9 ppbv

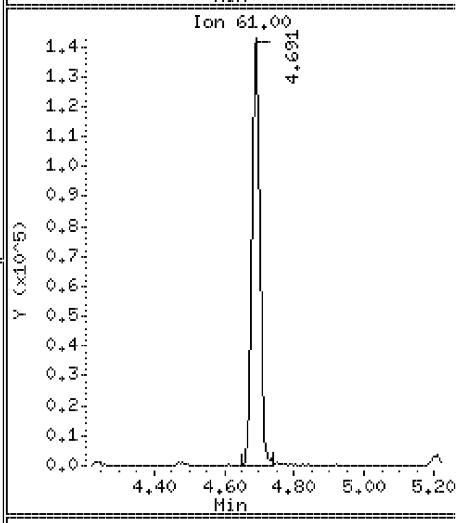


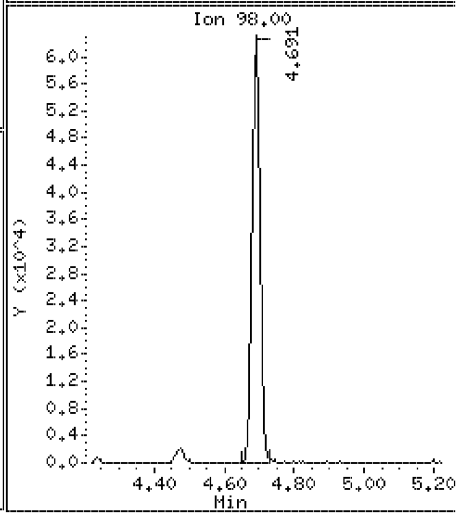












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

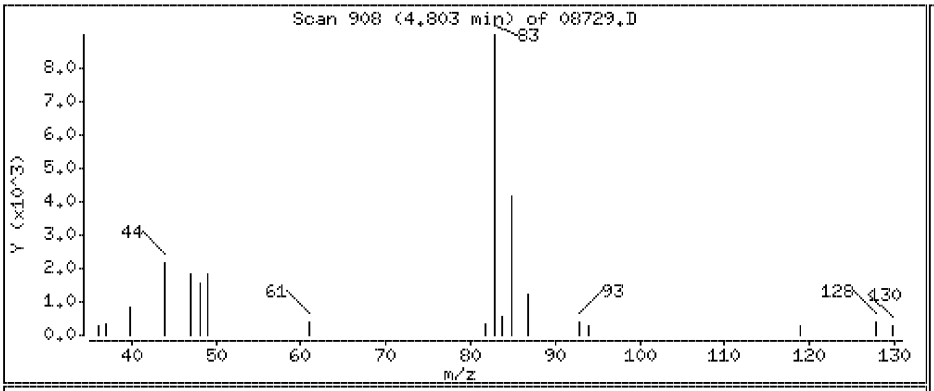
Operator: NCK

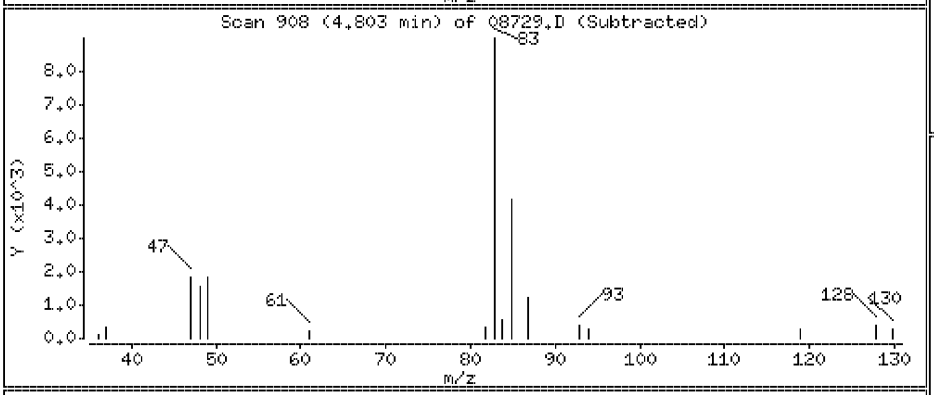
Column phase: J&W DB-5

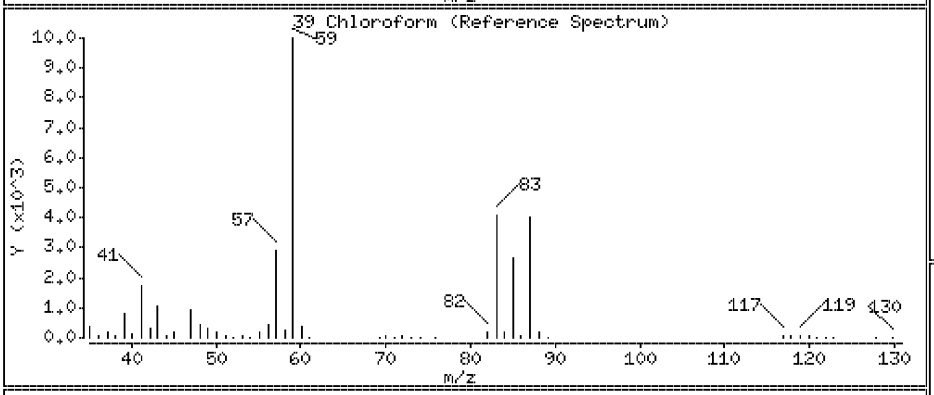
Column diameter: 0.32

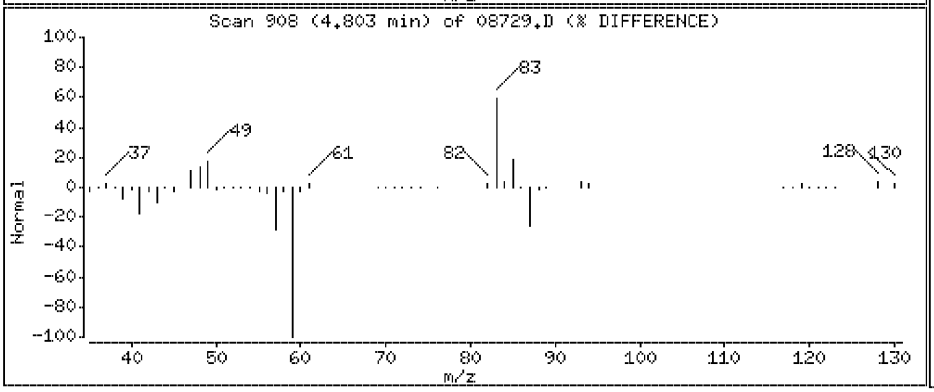
39 Chloroform

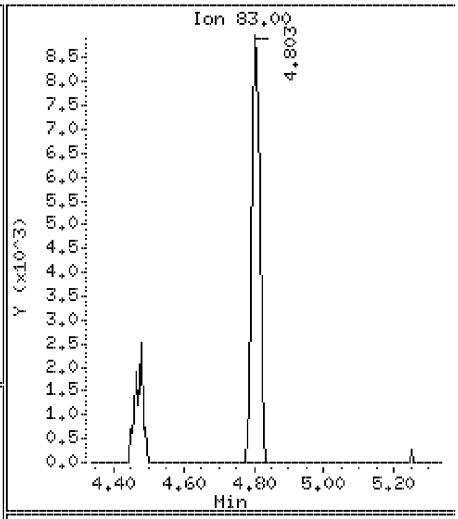
Concentration: 1.52 ppbv

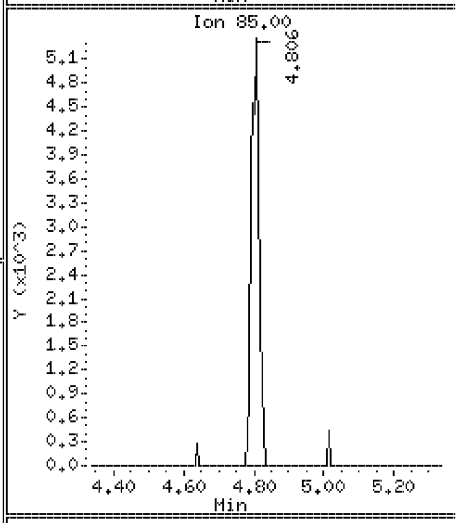


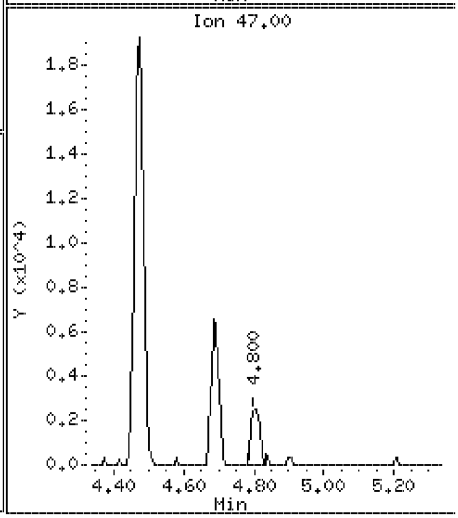












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

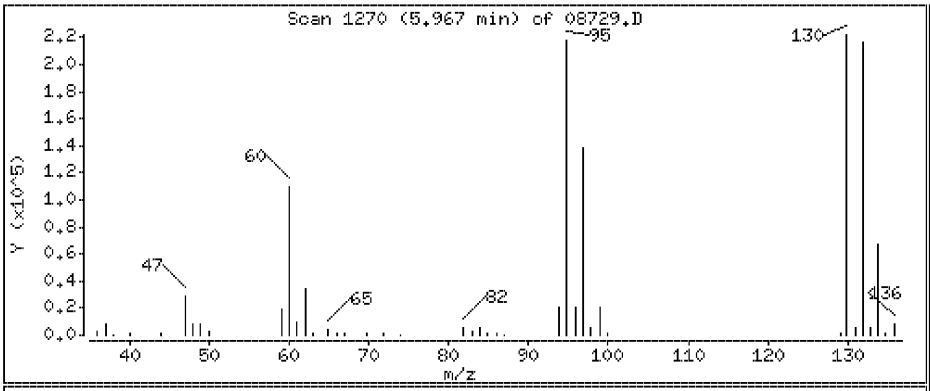
Operator: NCK

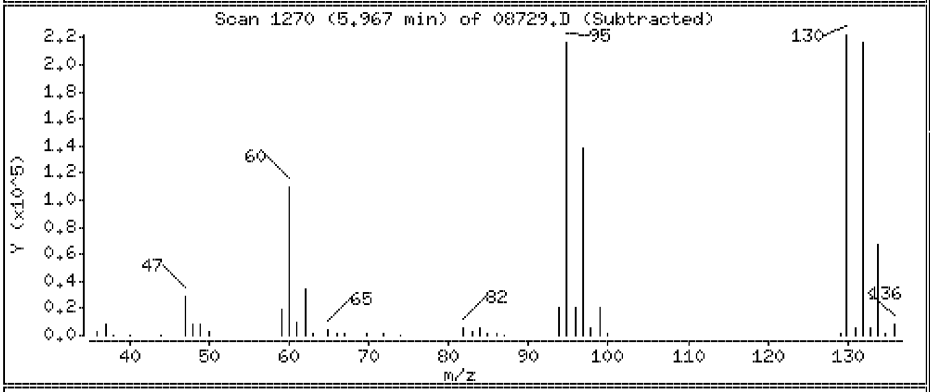
Column phase: J&W DB-5

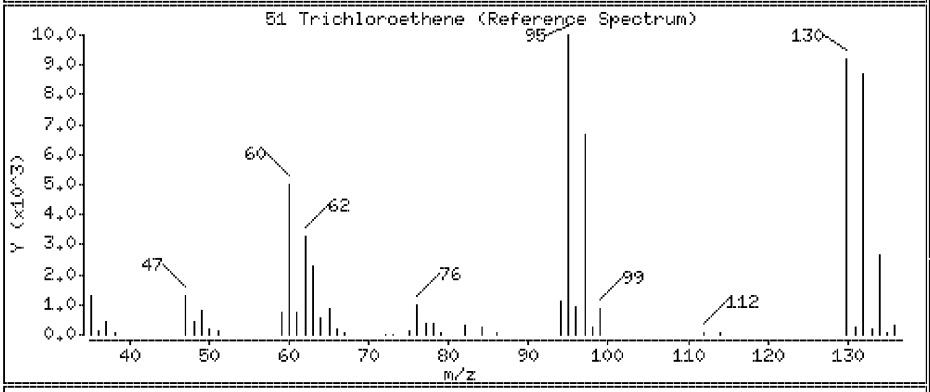
Column diameter: 0.32

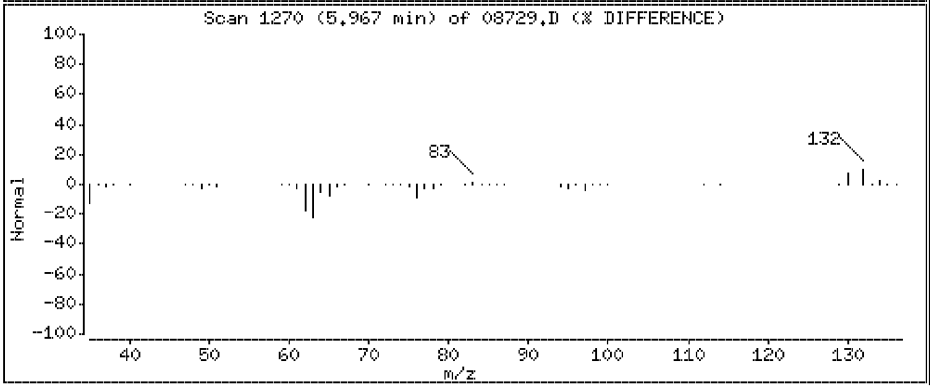
51 Trichloroethene

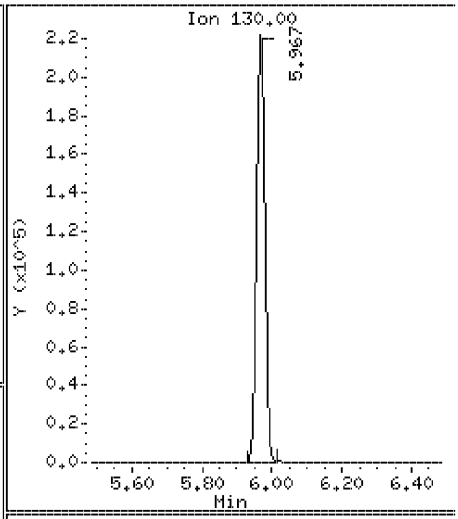
Concentration: 44.3 ppbv

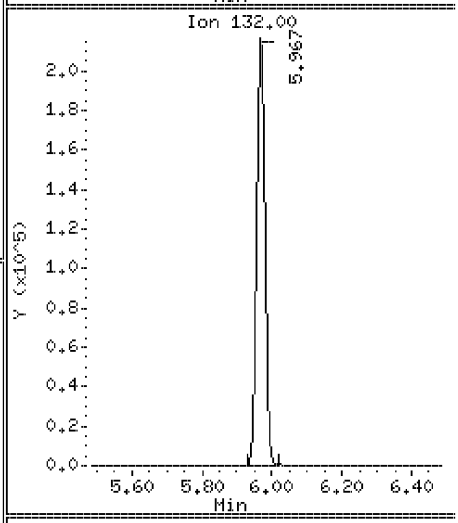


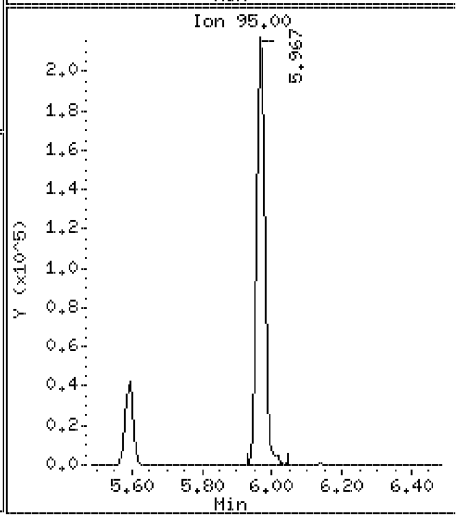












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

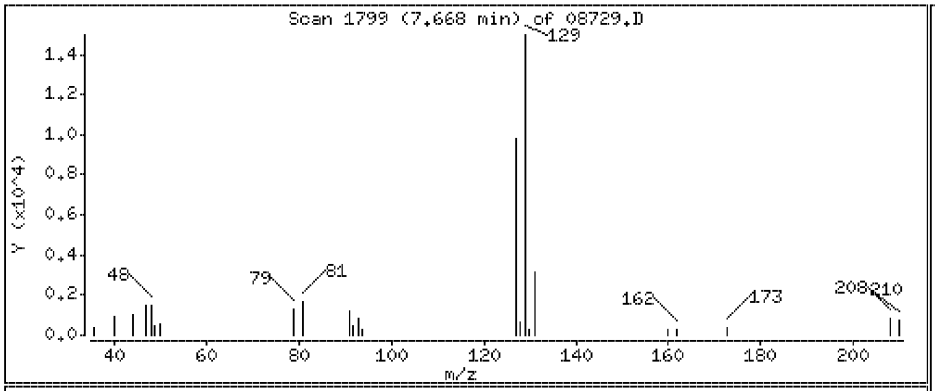
Operator: NCK

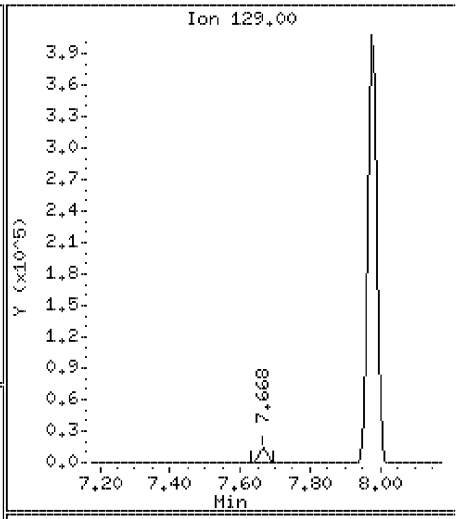
Column phase: J&W DB-5

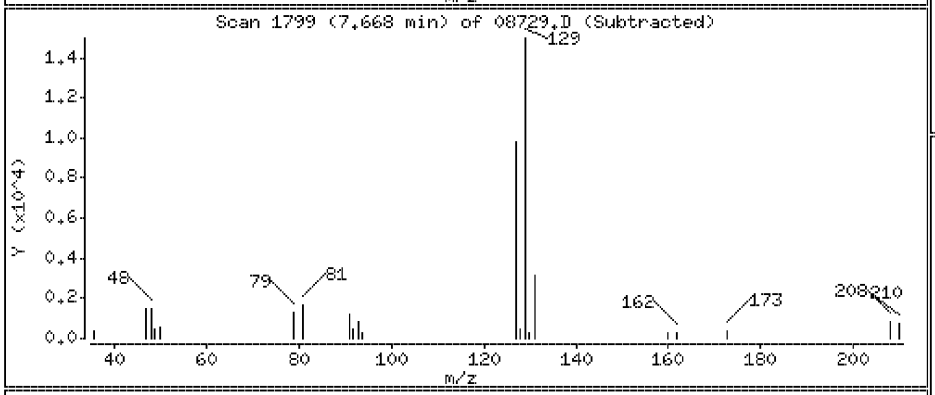
Column diameter: 0.32

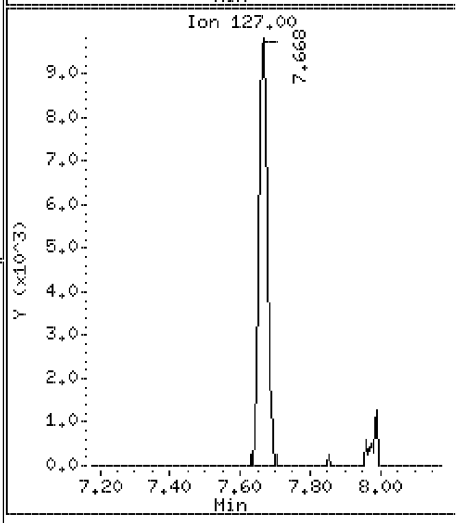
64 Dibromochloromethane

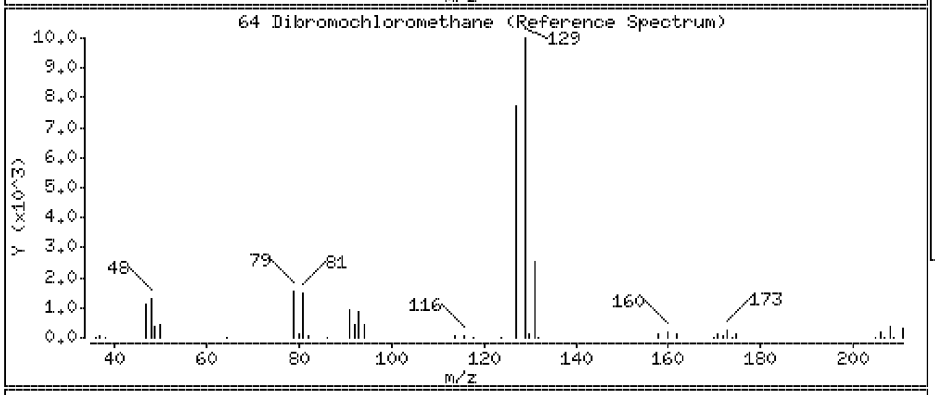
Concentration: 2.00 ppbv

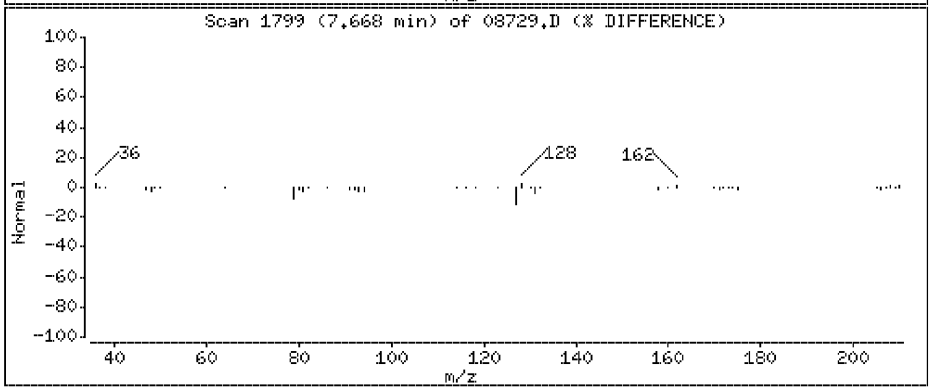












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

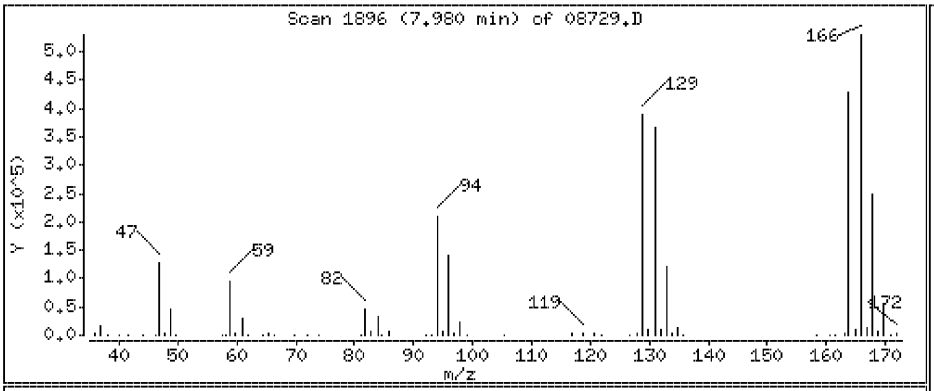
Operator: NCK

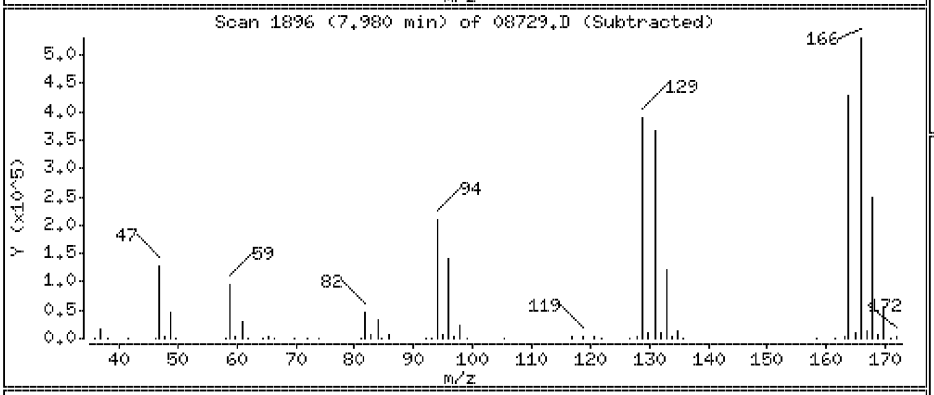
Column phase: J&W DB-5

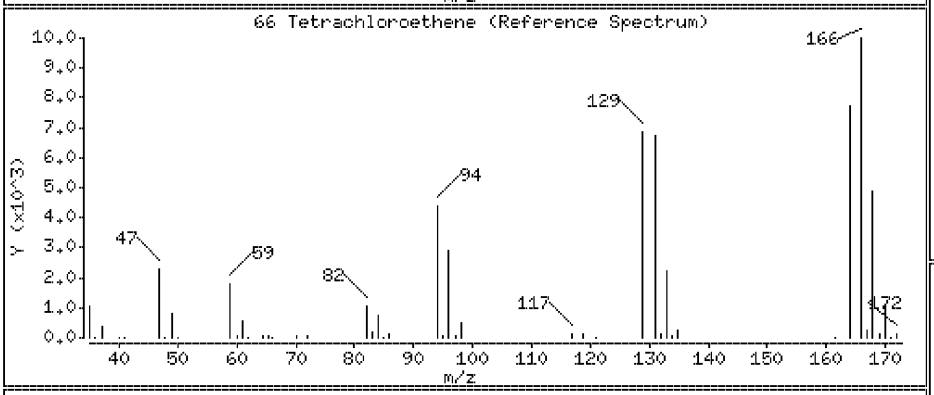
Column diameter: 0.32

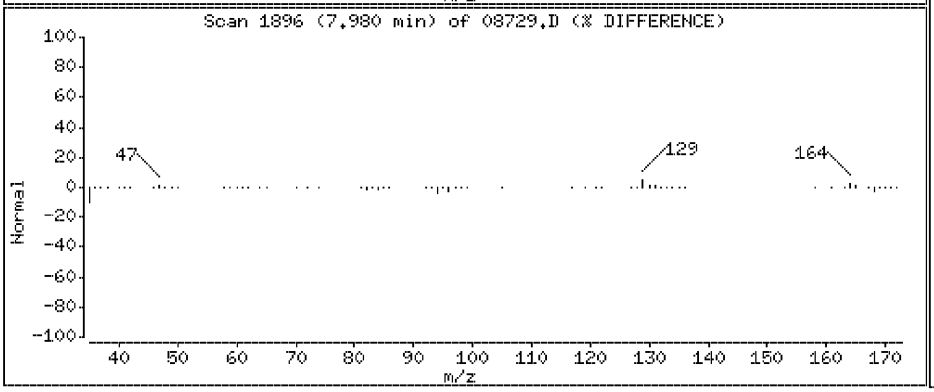
66 Tetrachloroethene

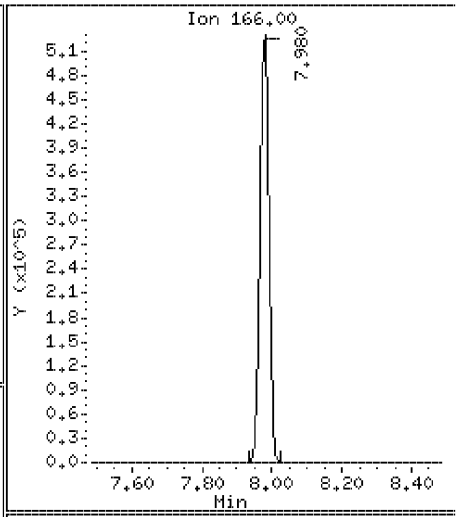
Concentration: 88.6 ppbv

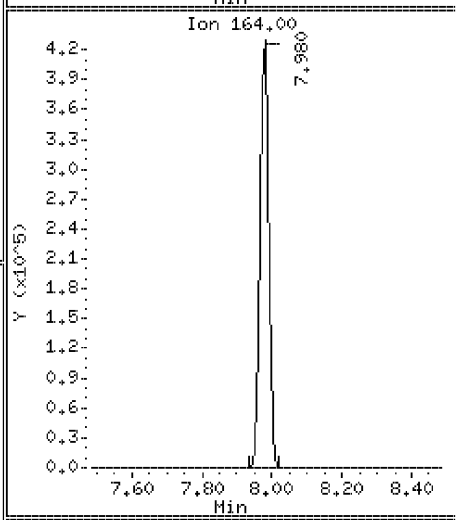


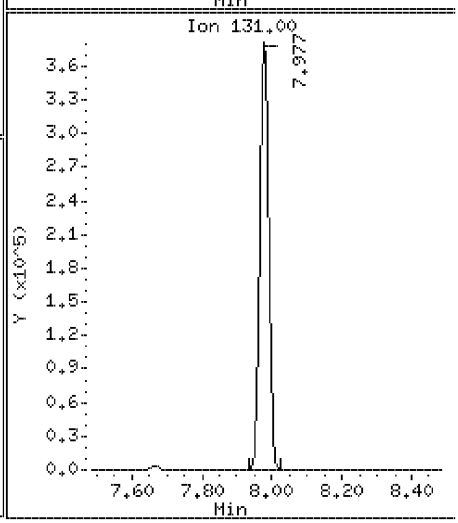












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08729.D

Date : 28-MAR-2017 23:42

Client ID:

Instrument: 10airB.i

Sample Info:

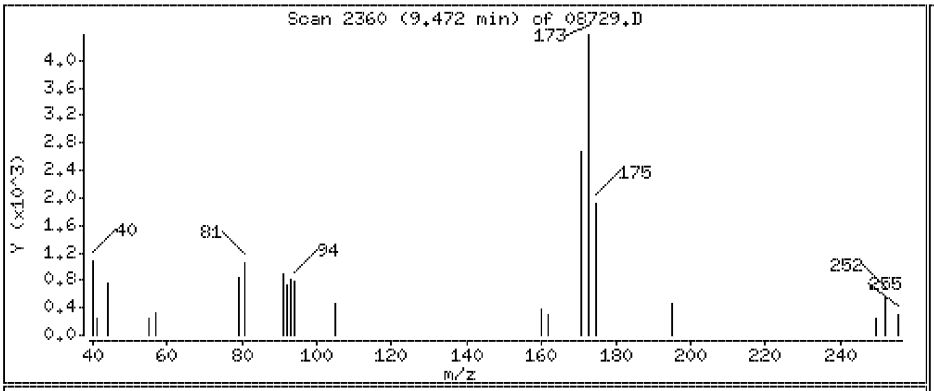
Operator: NCK

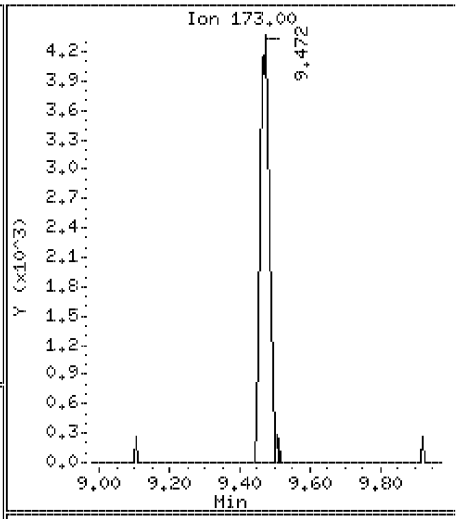
Column phase: J&W DB-5

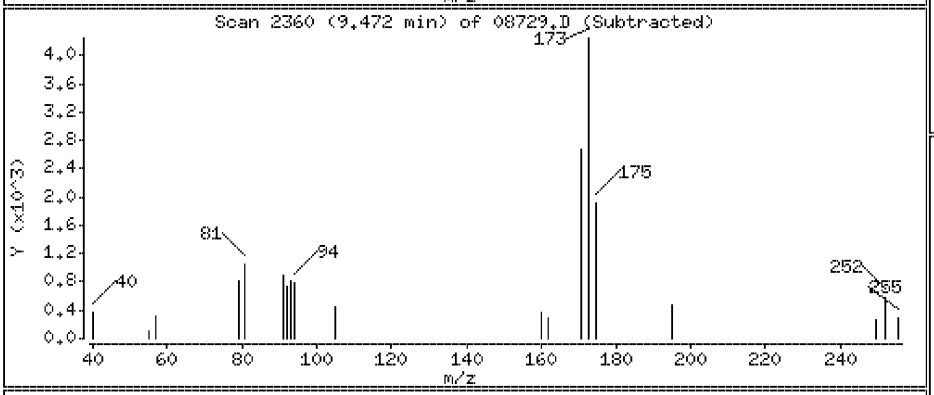
Column diameter: 0.32

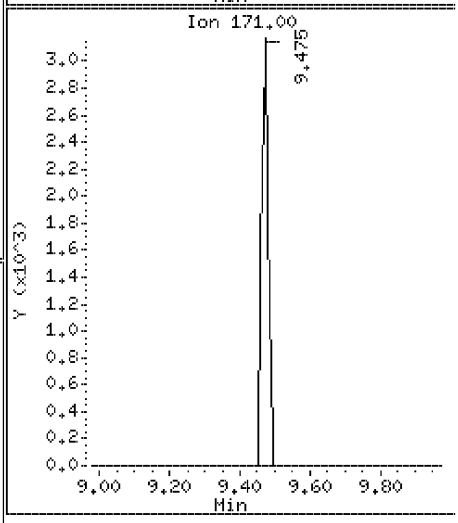
72 Bromoform

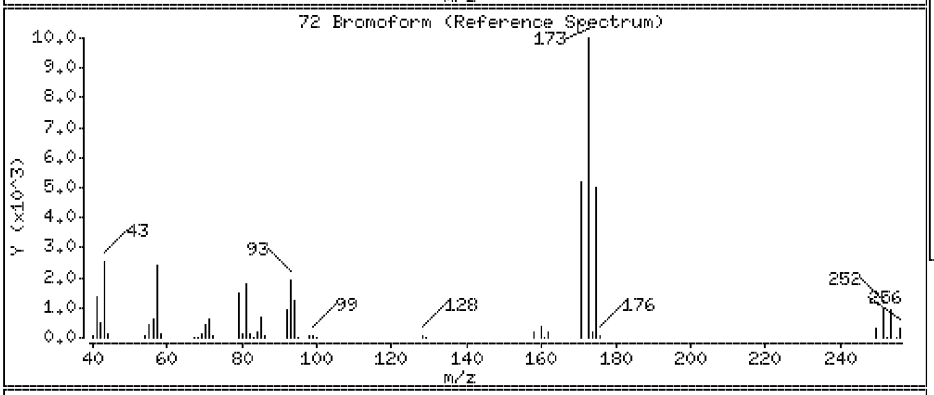
Concentration: 0.938 ppbv

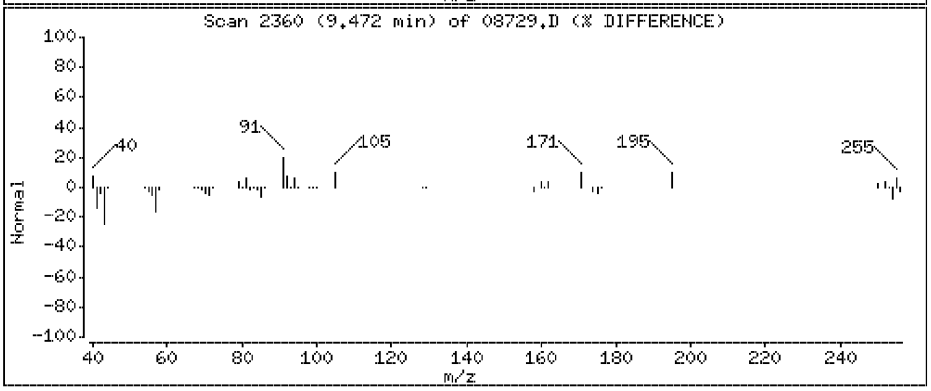






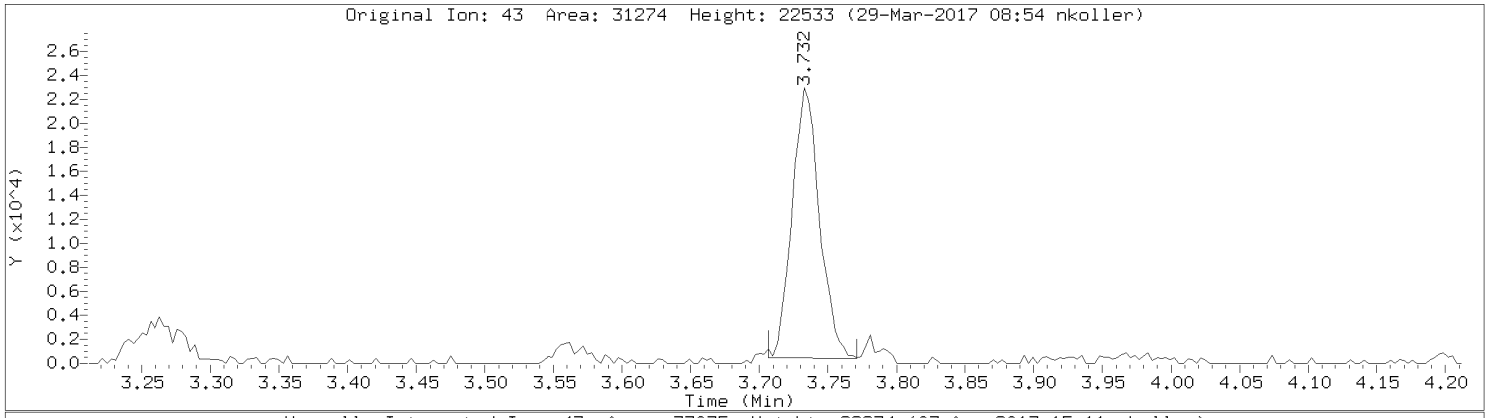


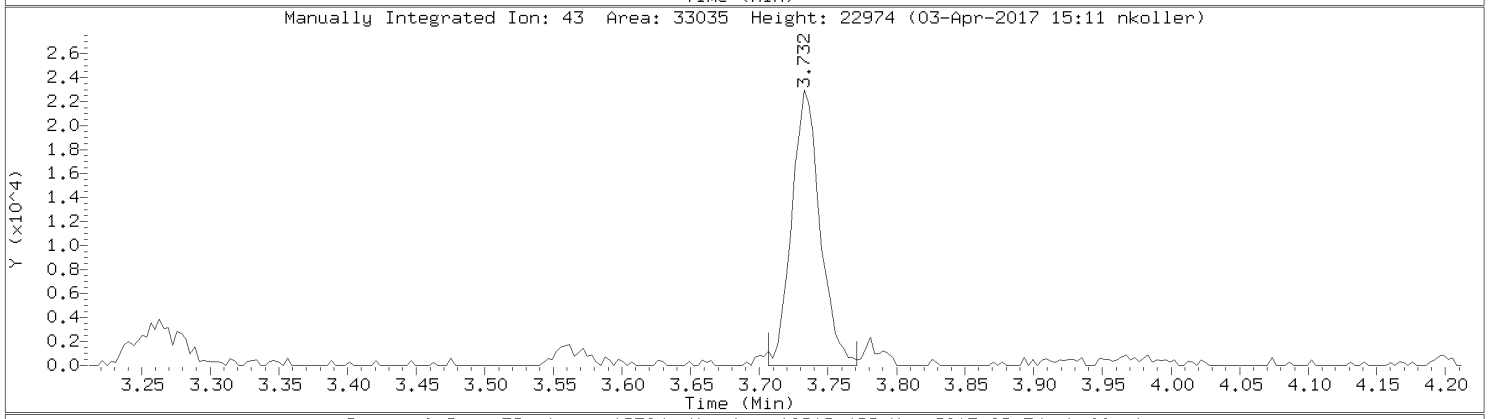


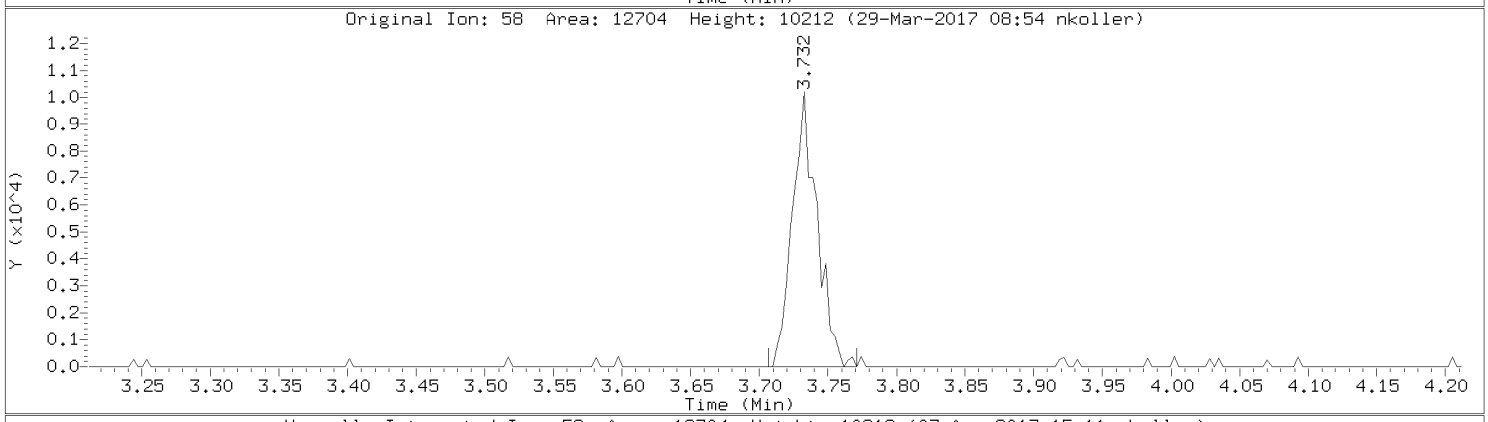


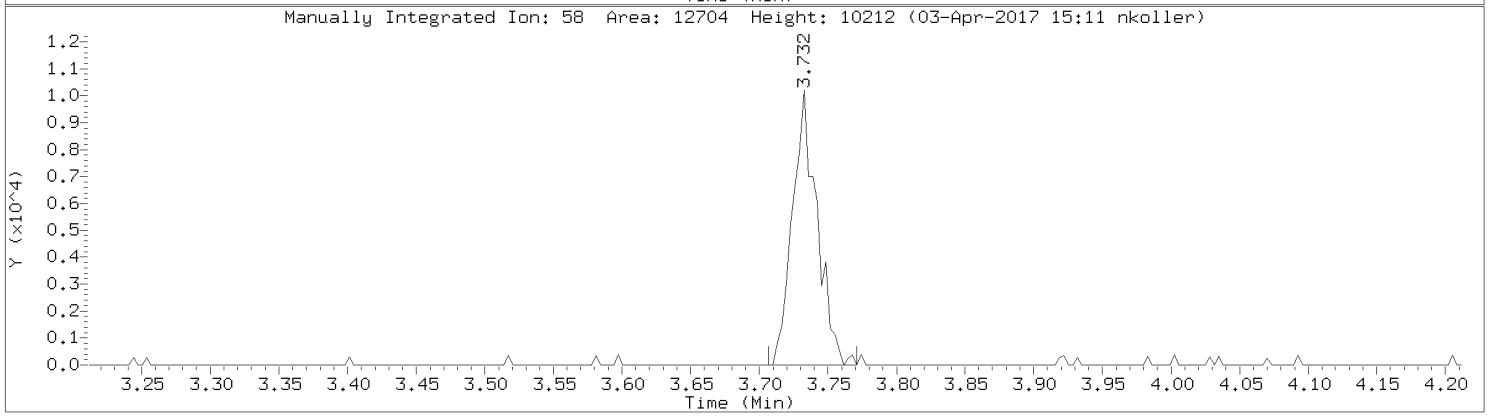
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08729.D
Injection Date: 28-MAR-2017 23:42
Instrument: 10airB.i
Lab Sample ID: 10381335015

Compound: Acetone
CAS Number: 67-64-1









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_73_20170307 **Lab ID: 10381335016** Collected: 03/07/17 12:04 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.4J**	ug/m3	20.3	7.0	8.4		03/29/17 01:33	67-64-1	
Allyl chloride	**<1.9**	ug/m3	13.4	1.9	8.4		03/29/17 01:33	107-05-1	
Benzene	**<1.0**	ug/m3	2.7	1.0	8.4		03/29/17 01:33	71-43-2	
Bromodichloromethane	**<1.6**	ug/m3	11.4	1.6	8.4		03/29/17 01:33	75-27-4	
Bromoform	**<7.6**	ug/m3	17.6	7.6	8.4		03/29/17 01:33	75-25-2	
Bromomethane	**<2.6**	ug/m3	6.6	2.6	8.4		03/29/17 01:33	74-83-9	
1,3-Butadiene	**<1.5**	ug/m3	3.8	1.5	8.4		03/29/17 01:33	106-99-0	
2-Butanone (MEK)	**<1.9**	ug/m3	25.2	1.9	8.4		03/29/17 01:33	78-93-3	
Carbon disulfide	**<0.85**	ug/m3	5.3	0.85	8.4		03/29/17 01:33	75-15-0	
Carbon tetrachloride	**<1.6**	ug/m3	5.4	1.6	8.4		03/29/17 01:33	56-23-5	
Chlorobenzene	**<1.1**	ug/m3	7.9	1.1	8.4		03/29/17 01:33	108-90-7	
Chlorodifluoromethane	**11.7**	ug/m3	6.0	2.3	8.4		03/29/17 01:33	75-45-6	
Chloroethane	**<1.6**	ug/m3	4.5	1.6	8.4		03/29/17 01:33	75-00-3	
Chloroform	**5.7**	ug/m3	4.2	1.6	8.4		03/29/17 01:33	67-66-3	
Chloromethane	**<0.91**	ug/m3	3.5	0.91	8.4		03/29/17 01:33	74-87-3	
Chloropentafluoroethane	**<27.0**	ug/m3	27.0	27.0	8.4		03/29/17 01:33	76-15-3	
Cyclohexane	**<2.7**	ug/m3	5.9	2.7	8.4		03/29/17 01:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<41.2**	ug/m3	41.2	41.2	8.4		03/29/17 01:33	96-12-8	
Dibromochloromethane	**<7.2**	ug/m3	14.5	7.2	8.4		03/29/17 01:33	124-48-1	
1,2-Dibromoethane (EDB)	**<6.5**	ug/m3	13.1	6.5	8.4		03/29/17 01:33	106-93-4	
1,2-Dichlorobenzene	**<4.3**	ug/m3	10.2	4.3	8.4		03/29/17 01:33	95-50-1	
1,3-Dichlorobenzene	**<4.5**	ug/m3	10.2	4.5	8.4		03/29/17 01:33	541-73-1	
1,4-Dichlorobenzene	**<4.2**	ug/m3	10.2	4.2	8.4		03/29/17 01:33	106-46-7	
Dichlorodifluoromethane	**7.2J**	ug/m3	8.5	4.0	8.4		03/29/17 01:33	75-71-8	
1,1-Dichloroethane	**<1.3**	ug/m3	6.9	1.3	8.4		03/29/17 01:33	75-34-3	
1,2-Dichloroethane	**<1.7**	ug/m3	3.4	1.7	8.4		03/29/17 01:33	107-06-2	
1,1-Dichloroethene	**<2.0**	ug/m3	6.8	2.0	8.4		03/29/17 01:33	75-35-4	
cis-1,2-Dichloroethene	**16.1**	ug/m3	6.8	2.1	8.4		03/29/17 01:33	156-59-2	
trans-1,2-Dichloroethene	**<3.2**	ug/m3	6.8	3.2	8.4		03/29/17 01:33	156-60-5	
1,2-Dichloropropane	**<2.3**	ug/m3	7.9	2.3	8.4		03/29/17 01:33	78-87-5	
cis-1,3-Dichloropropene	**<3.1**	ug/m3	7.7	3.1	8.4		03/29/17 01:33	10061-01-5	
trans-1,3-Dichloropropene	**<2.2**	ug/m3	19.4	2.2	8.4		03/29/17 01:33	10061-02-6	
Dichlorotetrafluoroethane	**<2.6**	ug/m3	11.9	2.6	8.4		03/29/17 01:33	76-14-2	
Freon 123	**<26.7**	ug/m3	26.7	26.7	8.4		03/29/17 01:33	306-83-2	
1,4-Dioxane (p-Dioxane)	**<3.0**	ug/m3	30.7	3.0	8.4		03/29/17 01:33	123-91-1	
Ethylbenzene	**<3.6**	ug/m3	7.4	3.6	8.4		03/29/17 01:33	100-41-4	
4-Ethyltoluene	**<1.6**	ug/m3	8.4	1.6	8.4		03/29/17 01:33	622-96-8	
Hexachloro-1,3-butadiene	**<5.5**	ug/m3	18.2	5.5	8.4		03/29/17 01:33	87-68-3	
n-Hexane	**<3.0**	ug/m3	6.0	3.0	8.4		03/29/17 01:33	110-54-3	
2-Hexanone	**<3.4**	ug/m3	35.0	3.4	8.4		03/29/17 01:33	591-78-6	
Isopropylbenzene (Cumene)	**<1.2**	ug/m3	21.0	1.2	8.4		03/29/17 01:33	98-82-8	
Methyl acetate	**<12.9**	ug/m3	12.9	12.9	8.4		03/29/17 01:33	79-20-9	
Methylcyclohexane	**<2.0**	ug/m3	6.9	2.0	8.4		03/29/17 01:33	108-87-2	
Methylene Chloride	**<4.6**	ug/m3	29.7	4.6	8.4		03/29/17 01:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.8**	ug/m3	35.0	1.8	8.4		03/29/17 01:33	108-10-1	
Methyl-tert-butyl ether	**<2.5**	ug/m3	30.8	2.5	8.4		03/29/17 01:33	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D
Report Date: 03-Apr-2017 15:13

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08733.D
Lab Smp Id: 10381335016
Inj Date : 29-MAR-2017 01:33
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 33
Dil Factor: 8.40000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	8.400	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.024	2.996	(0.541)	4529	0.38842	3.26	(Q)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.053	3.028	(0.546)	21506	0.17143	1.44	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.558	3.539	(0.637)	5528	0.36581	3.07	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.732	3.713	(0.668)	48172	0.80903	6.80	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.931	3.938	(0.703)	35077	0.49742	4.18	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D
Report Date: 03-Apr-2017 15:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.475	4.478	(0.800)	846047	9.89594	9.90	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.696	4.722	(0.840)	18029	0.47691	4.01(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.838	(0.861)	10277	0.13704	1.15	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.211	5.227	(0.932)	12351	0.12682	1.07	
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.590	5.610	(1.000)	2279064	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.967	5.986	(1.067)	279619	4.05314	34.0	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.063	7.073	(1.263)	1818975	9.46711	9.47	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	684165	7.95272	66.8	
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1313580	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D
Report Date: 03-Apr-2017 15:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	516521	8.28316	8.28	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D
Report Date: 03-Apr-2017 15:13

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08733.D
Lab Smp Id: 10381335016
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

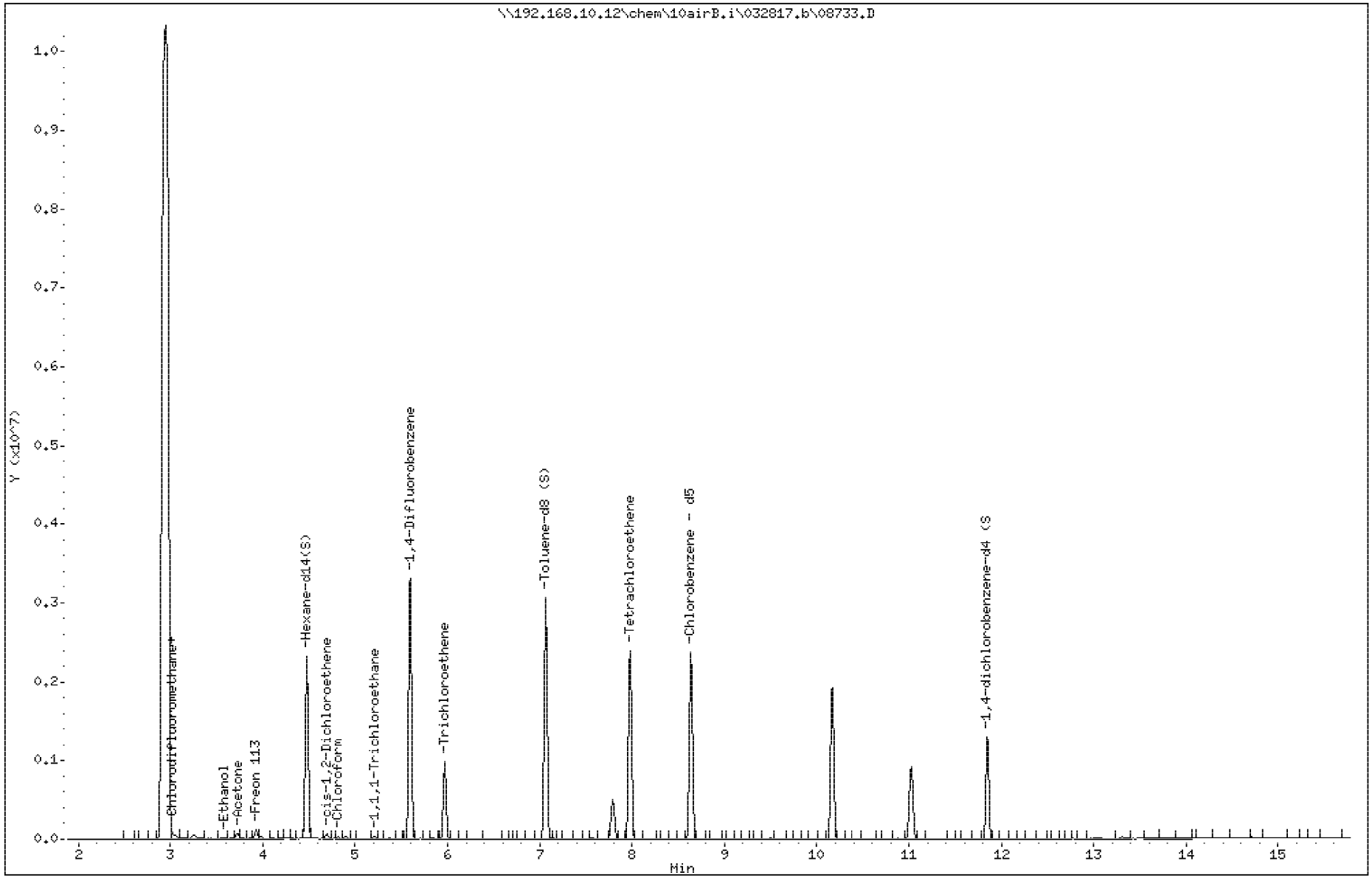
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2279064	-19.52
67 Chlorobenzene - d	1804482	1082689	2526275	1313580	-27.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.34
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D
Date : 29-MAR-2017 01:33
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D

Date : 29-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

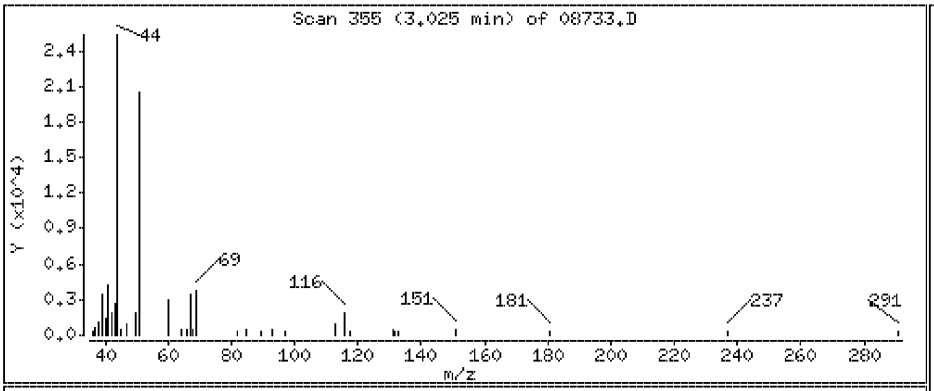
Operator: NCK

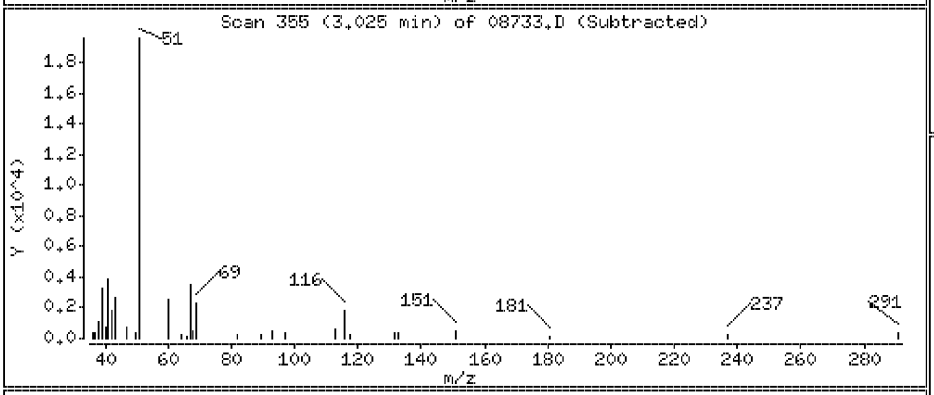
Column phase: J&W DB-5

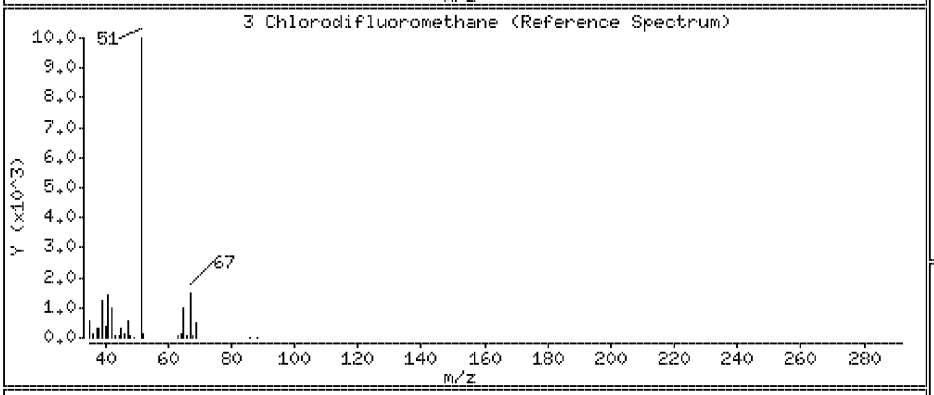
Column diameter: 0.32

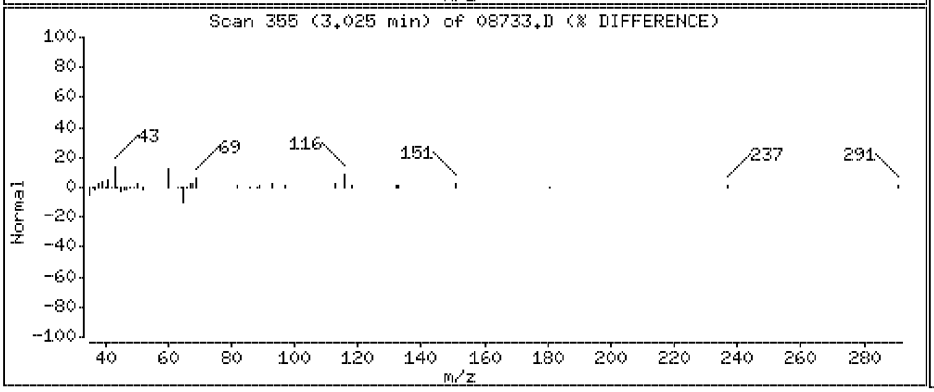
3 Chlorodifluoromethane

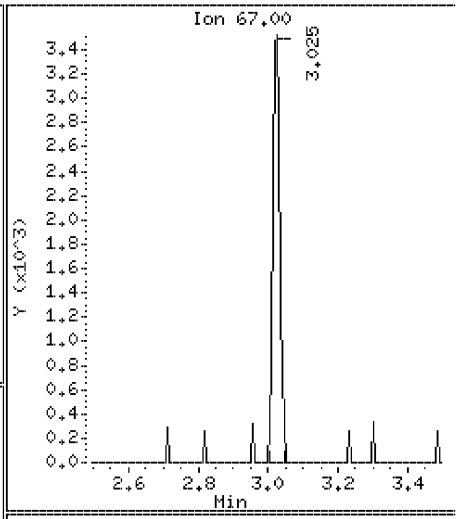
Concentration: 3.26 ppbv

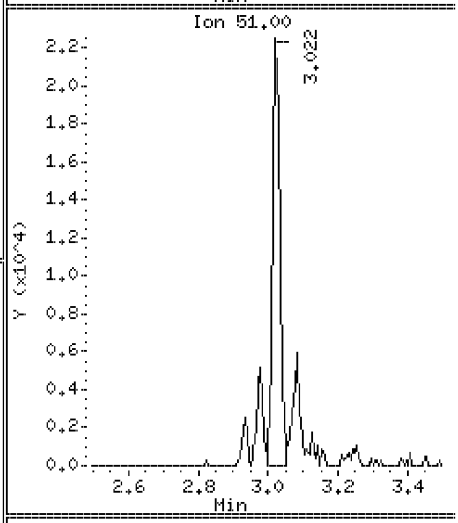


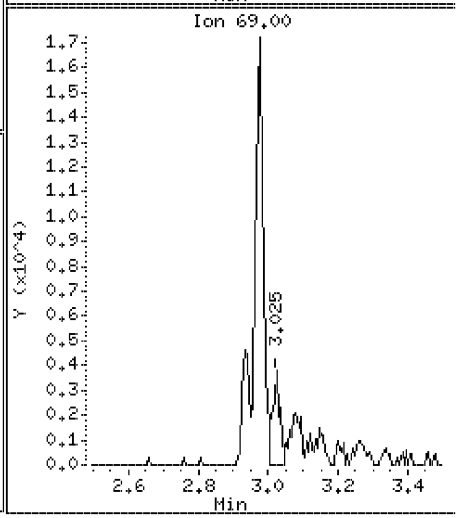












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D

Date : 29-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

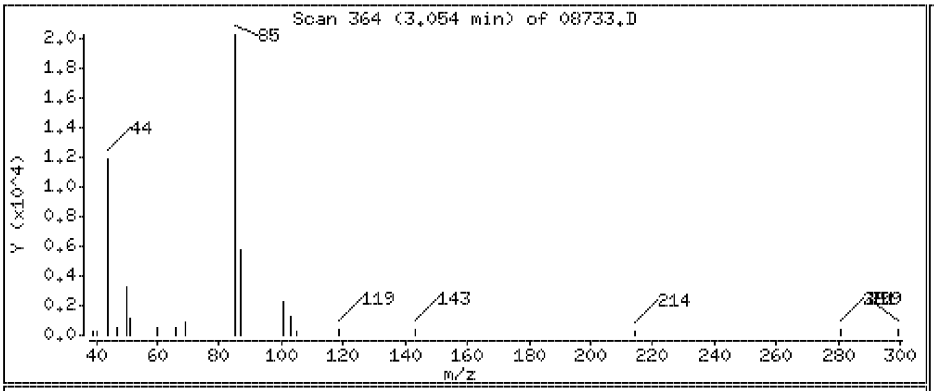
Operator: NCK

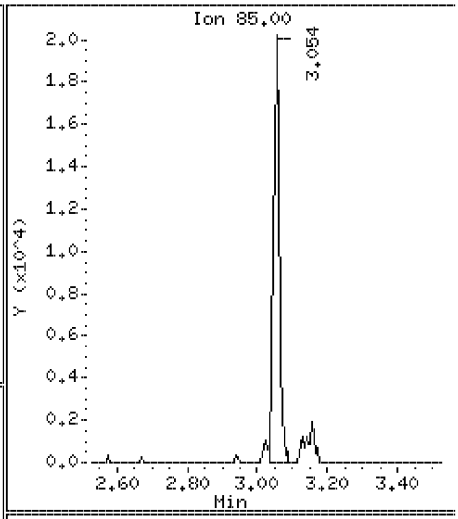
Column phase: J&W DB-5

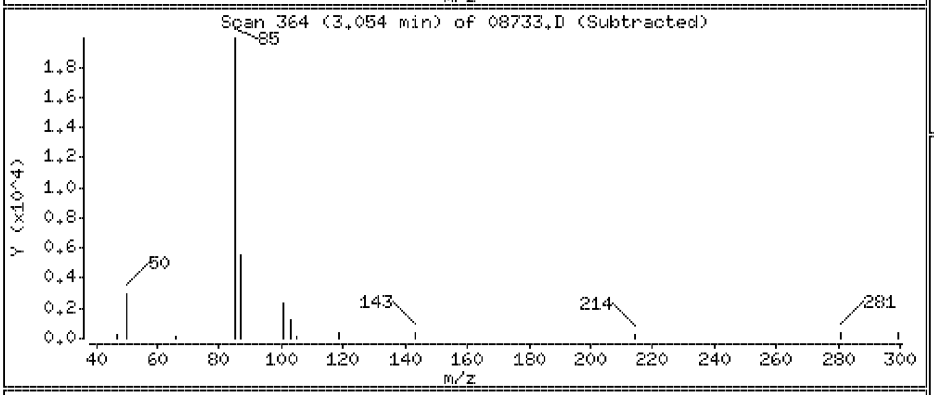
Column diameter: 0.32

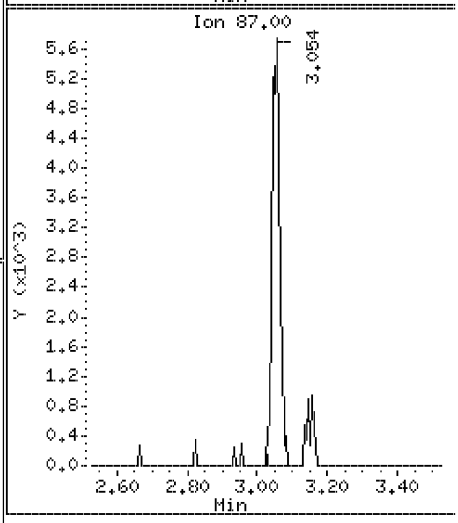
5 Dichlorodifluoromethane

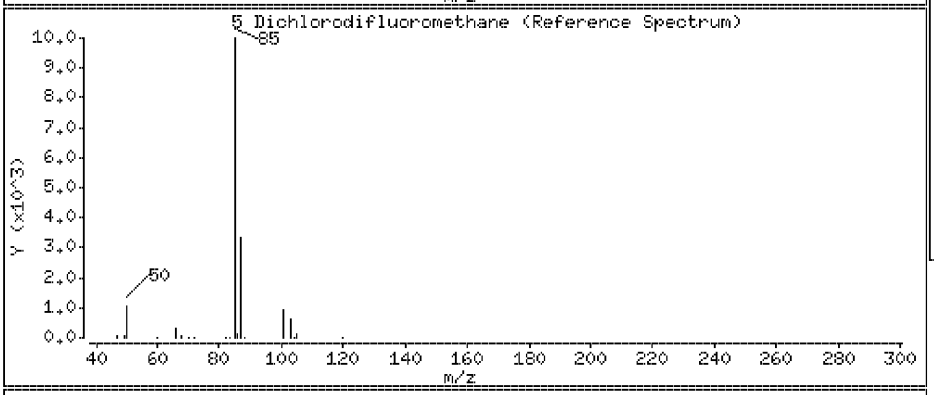
Concentration: 1.44 ppbv

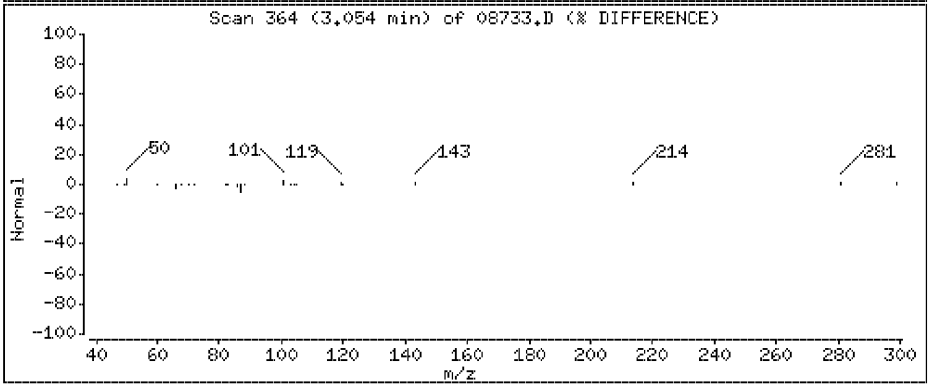












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D

Date : 29-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

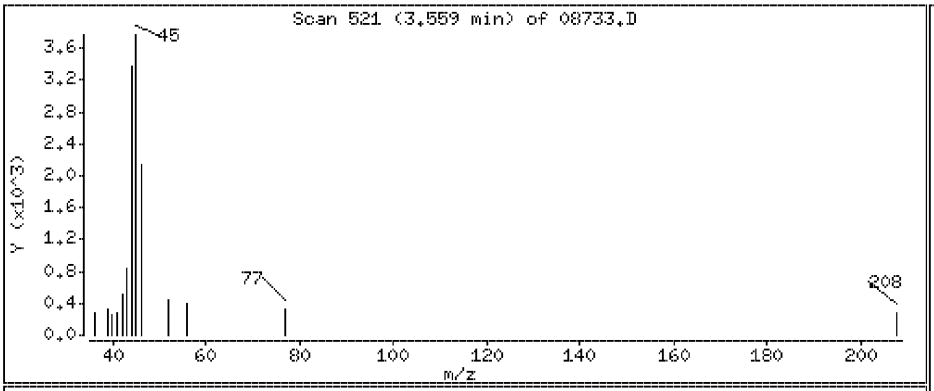
Operator: NCK

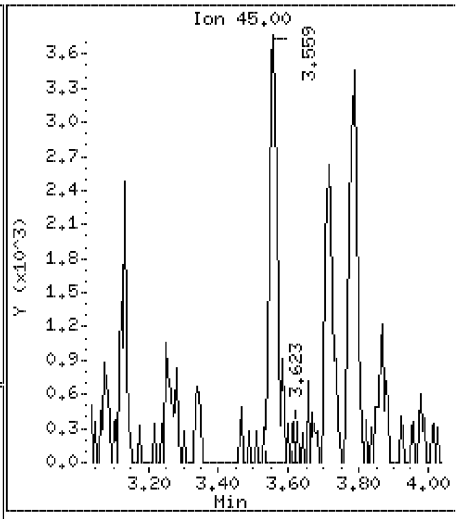
Column phase: J&W DB-5

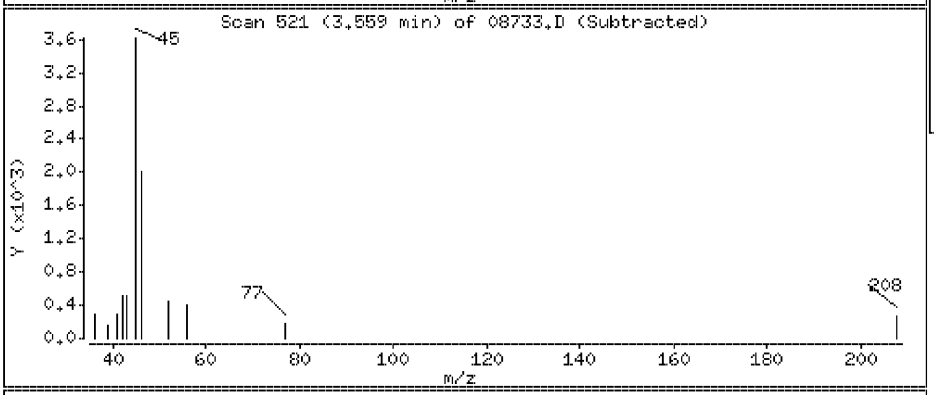
Column diameter: 0.32

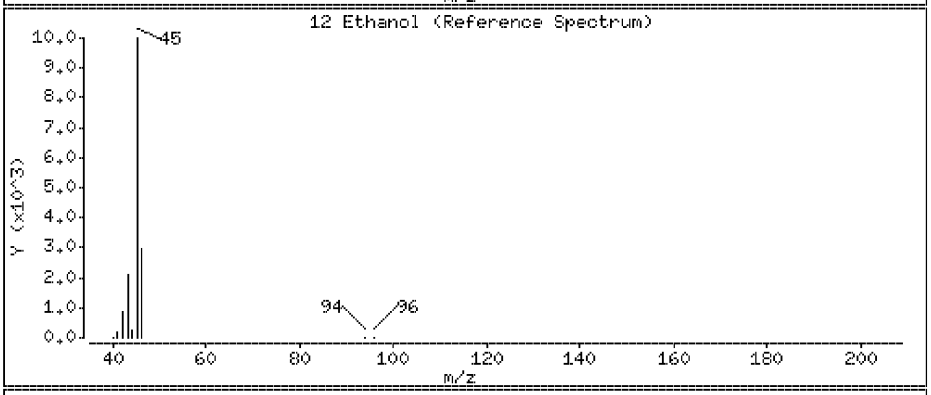
12 Ethanol

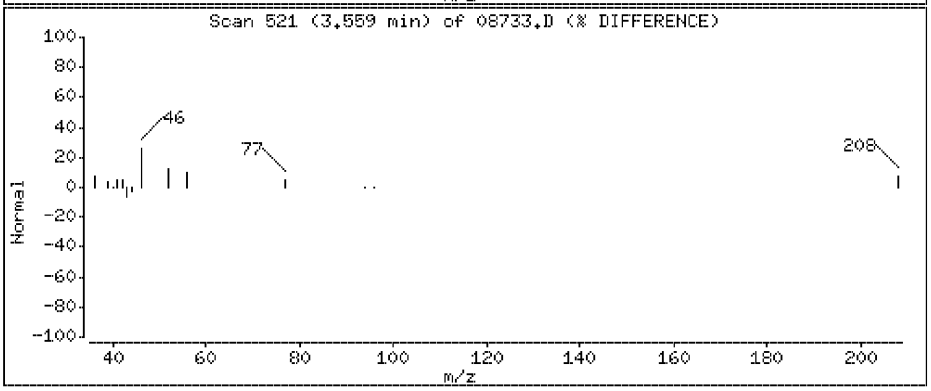
Concentration: 3.07 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D

Date : 29-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

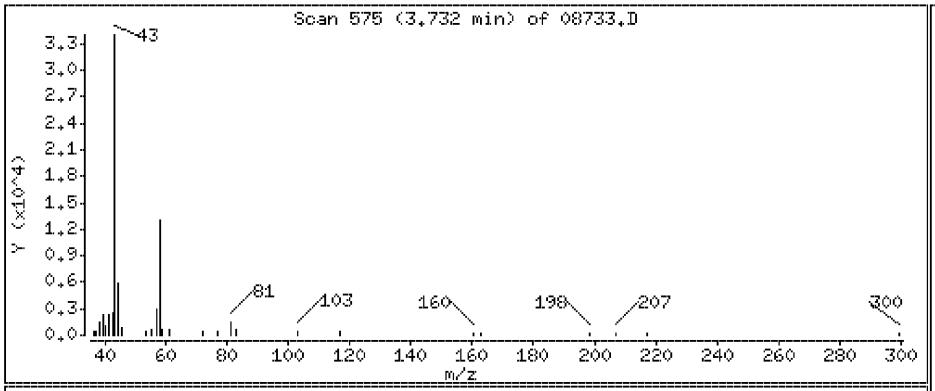
Operator: NCK

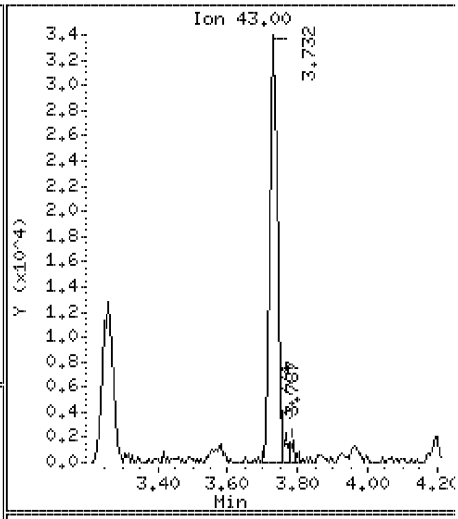
Column phase: J&W DB-5

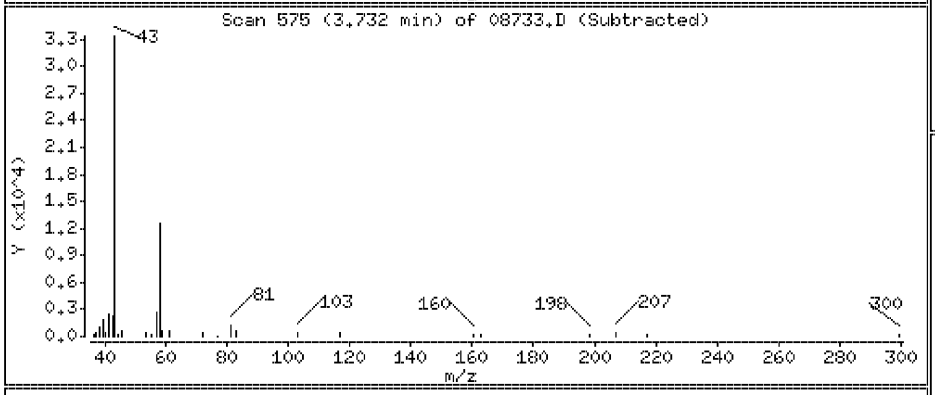
Column diameter: 0.32

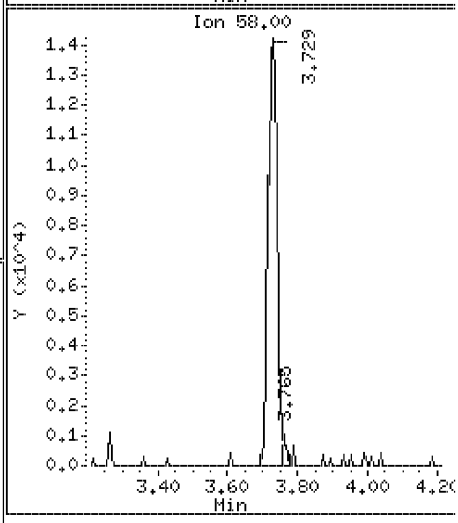
18 Acetone

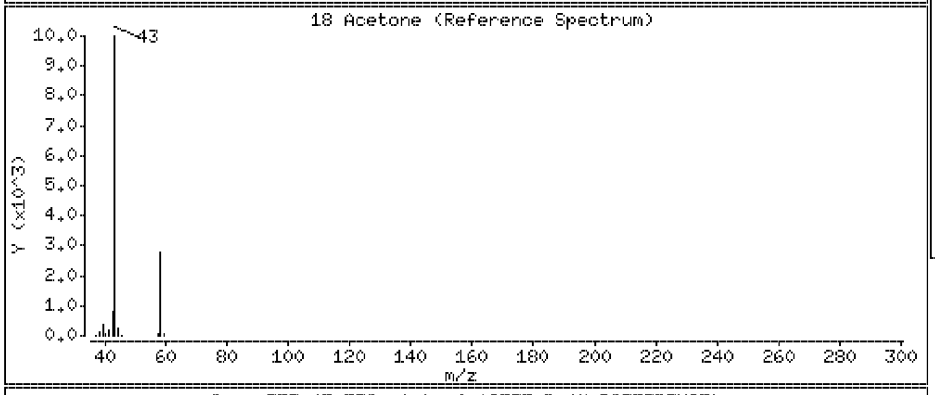
Concentration: 6.80 ppbv

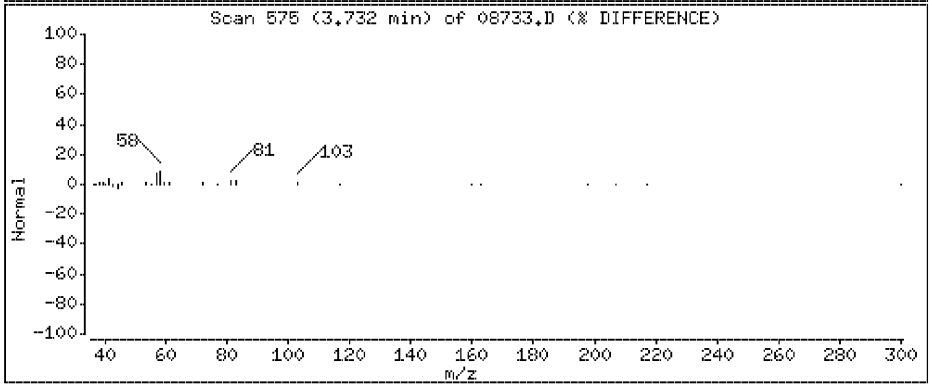












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D

Date : 29-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

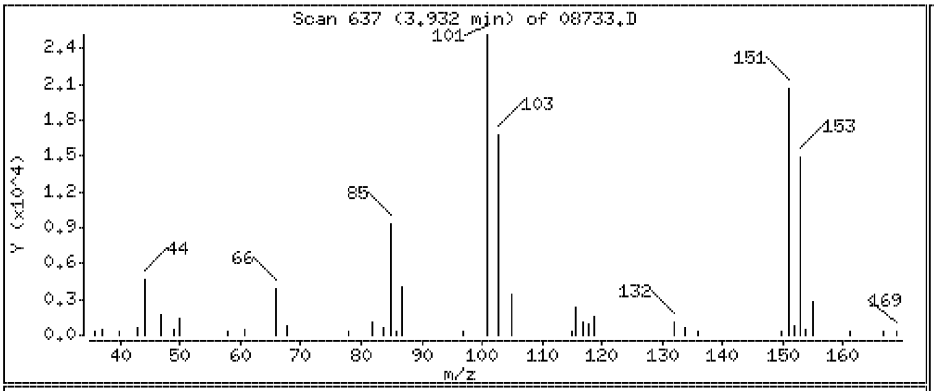
Operator: NCK

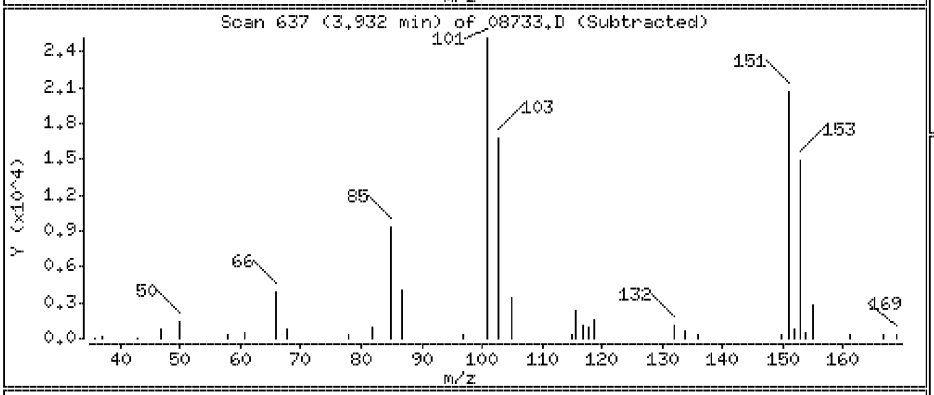
Column phase: J&W DB-5

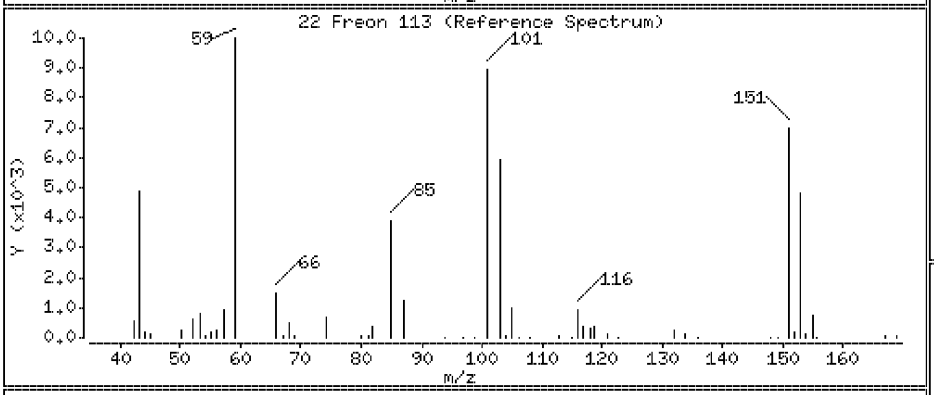
Column diameter: 0.32

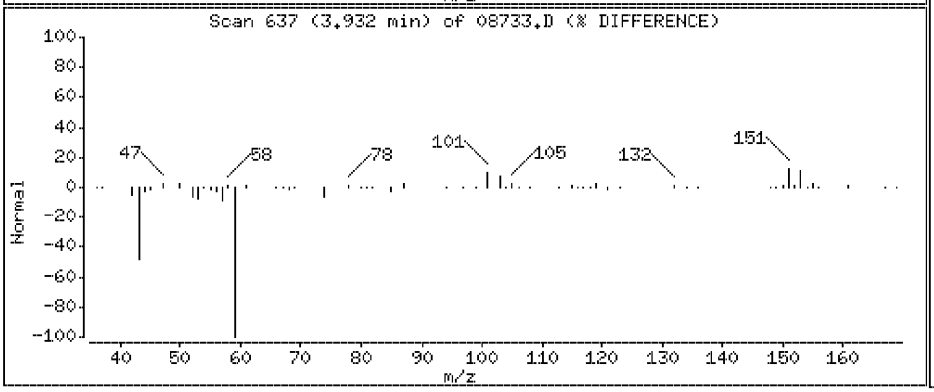
22 Freon 113

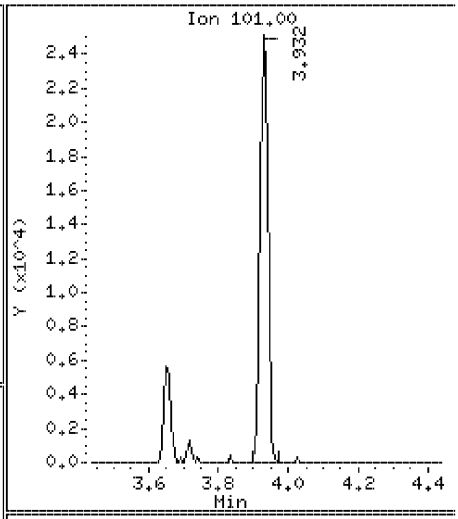
Concentration: 4.18 ppbv

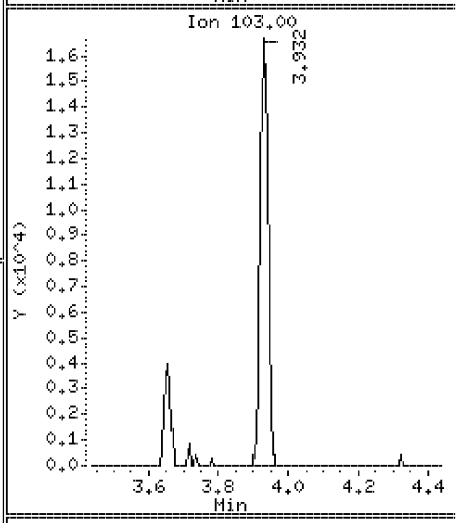


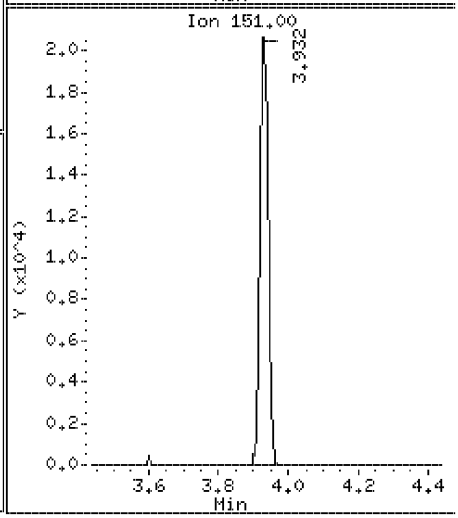












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D

Date : 29-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

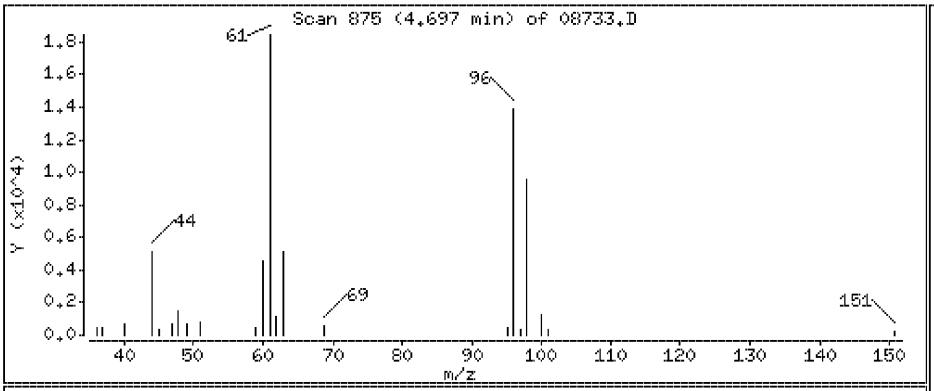
Operator: NCK

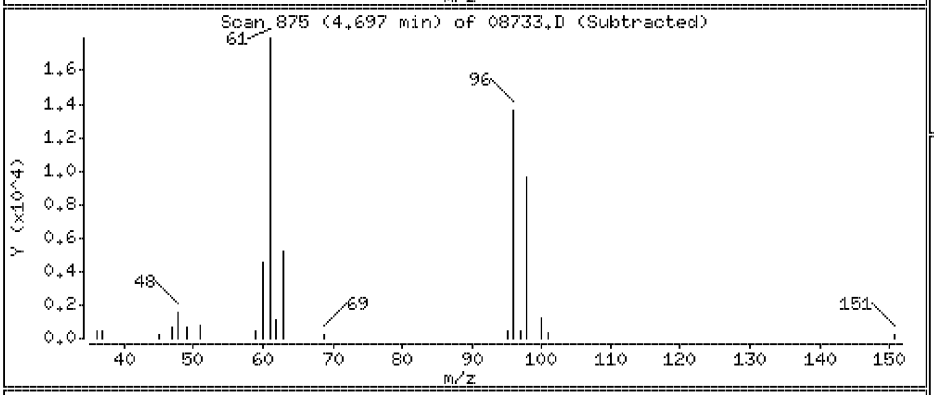
Column phase: J&W DB-5

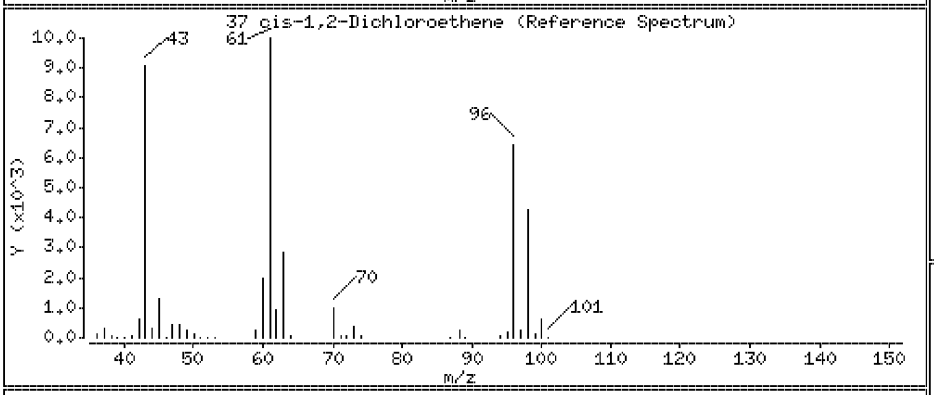
Column diameter: 0.32

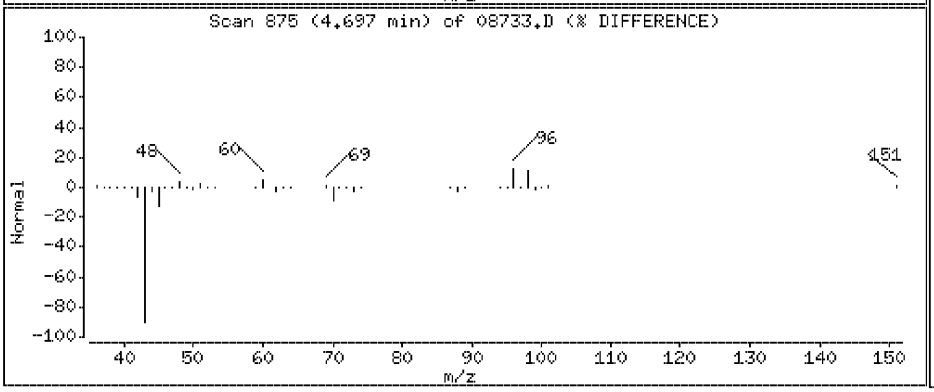
37 cis-1,2-Dichloroethene

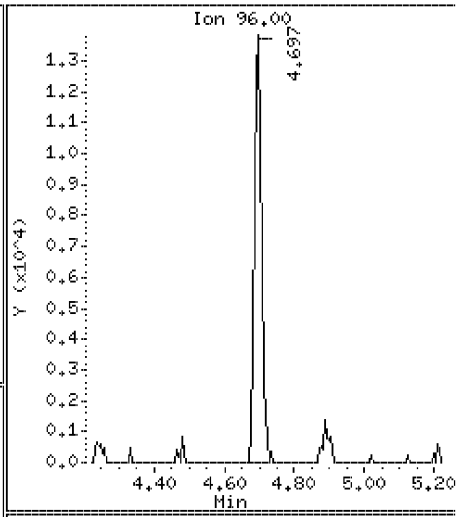
Concentration: 4.01 ppbv

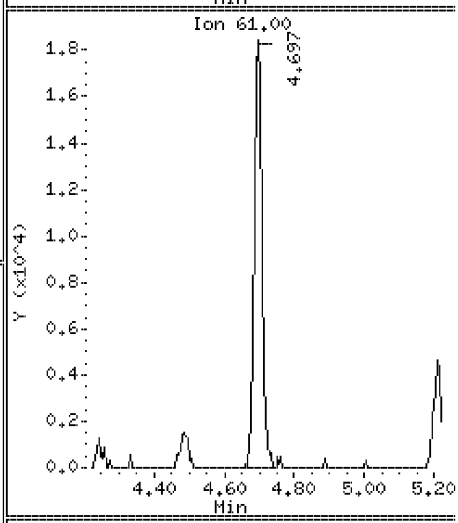


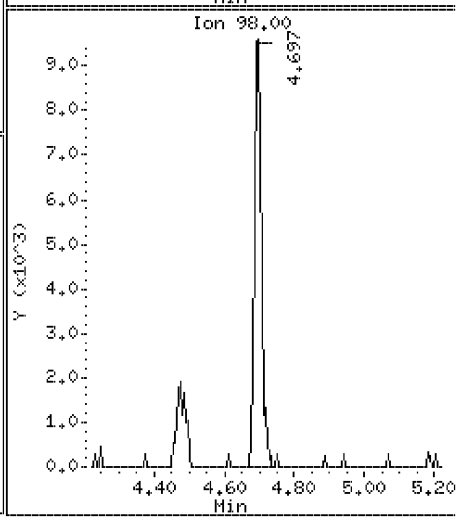












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D

Date : 29-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

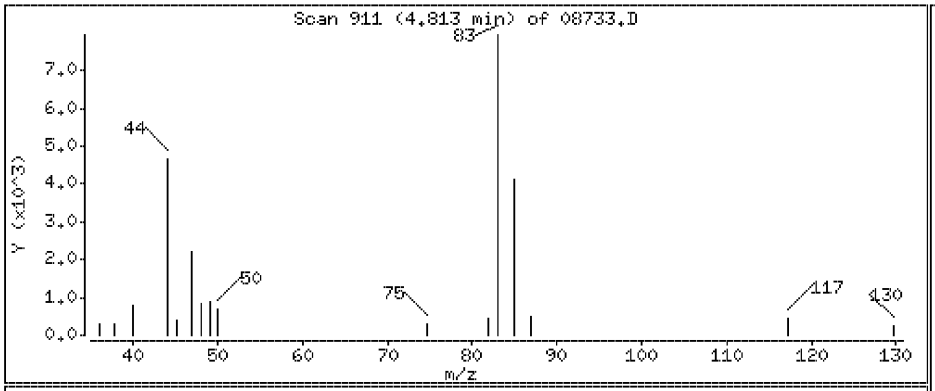
Operator: NCK

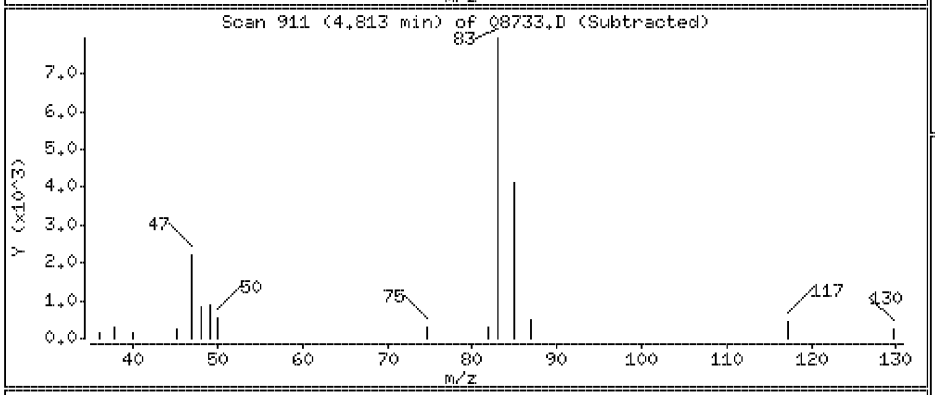
Column phase: J&W DB-5

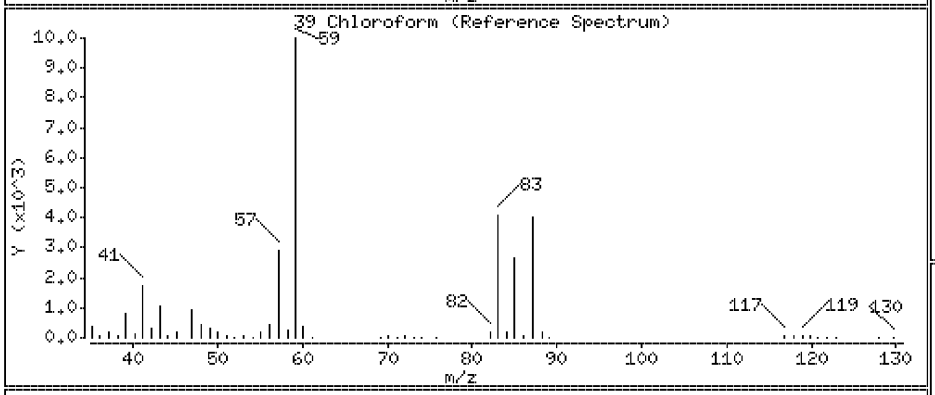
Column diameter: 0.32

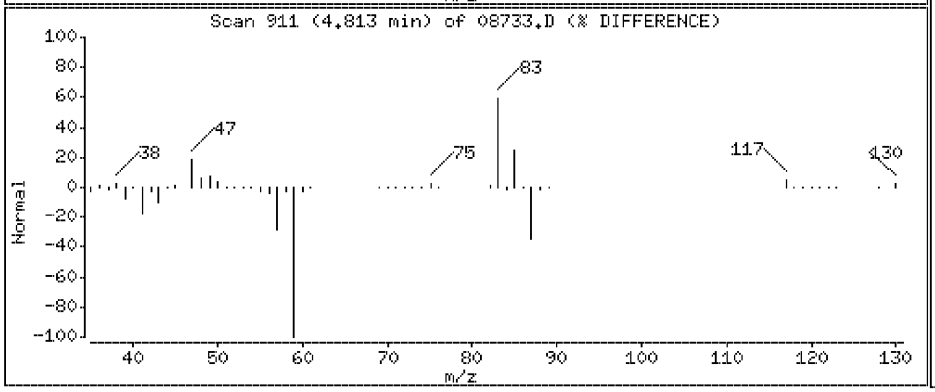
39 Chloroform

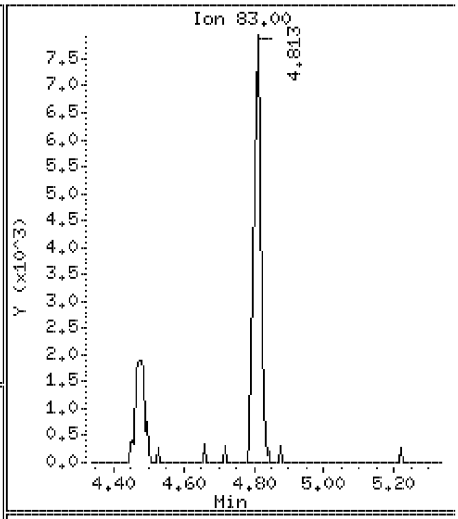
Concentration: 1.15 ppbv

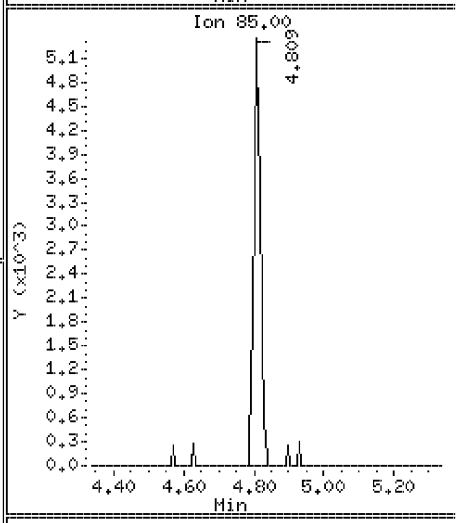


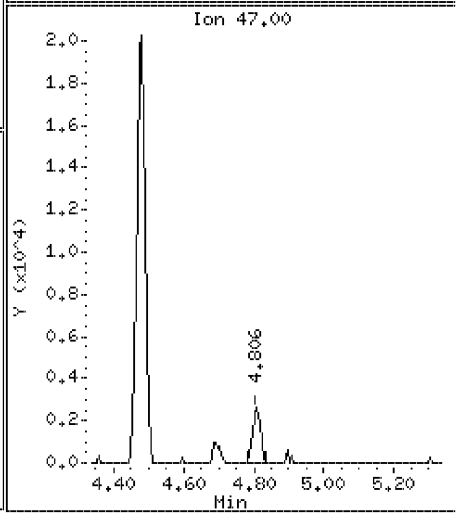












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D

Date : 29-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

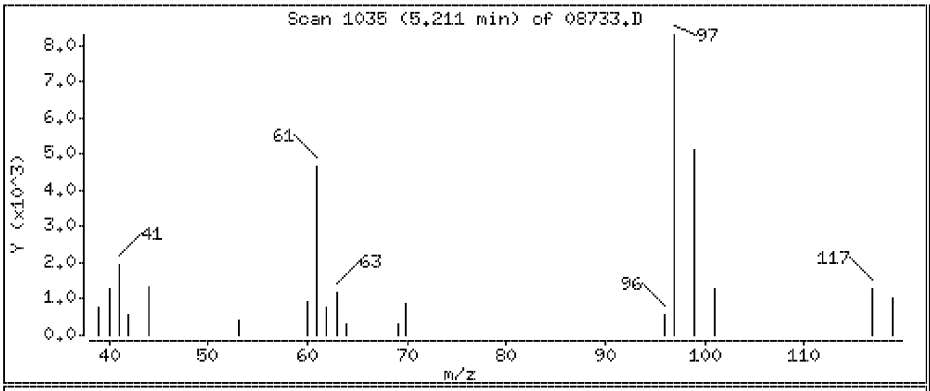
Operator: NCK

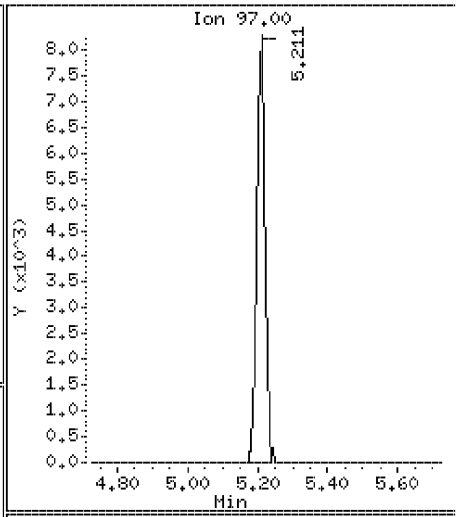
Column phase: J&W DB-5

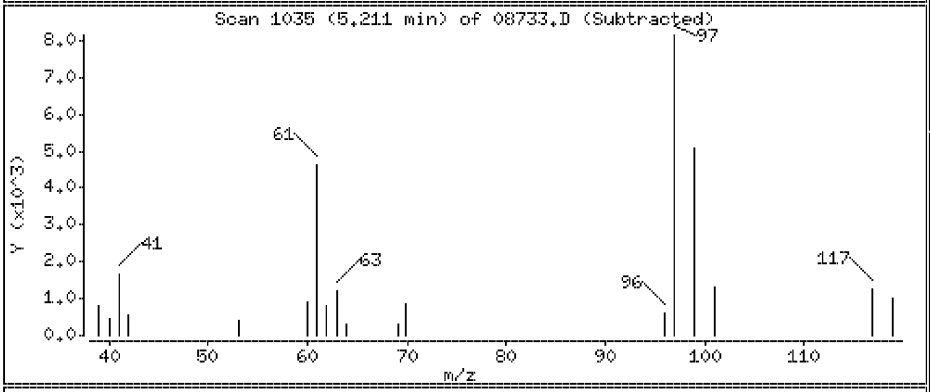
Column diameter: 0.32

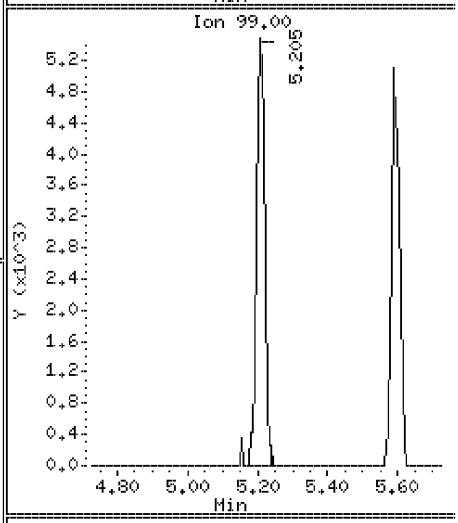
41 1,1,1-Trichloroethane

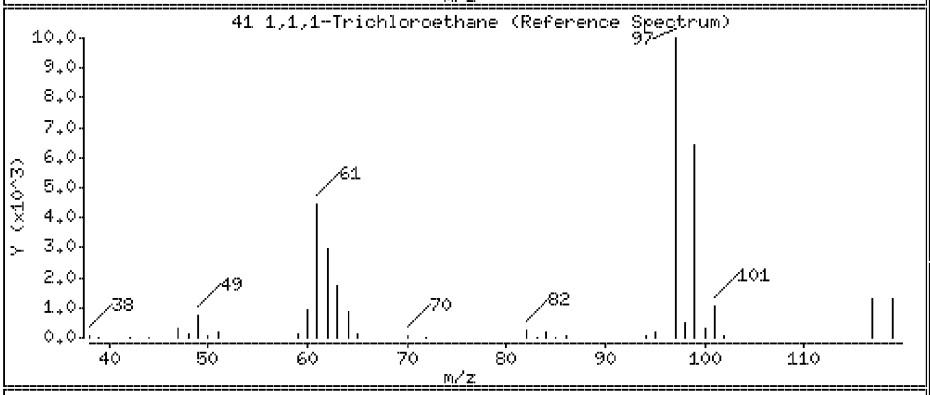
Concentration: 1.07 ppbv

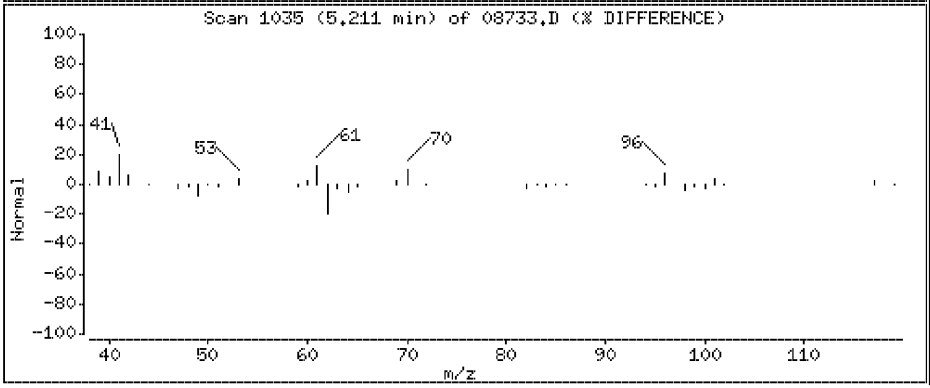


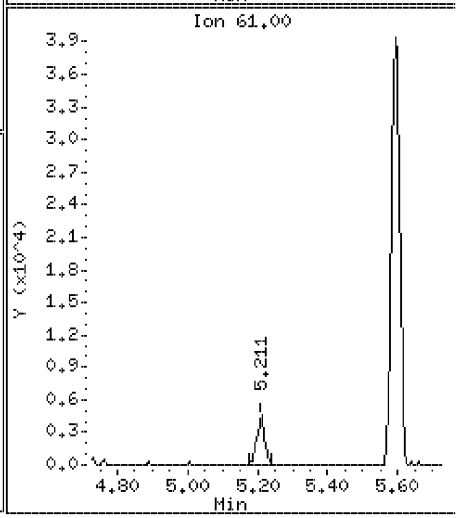












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D

Date : 29-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

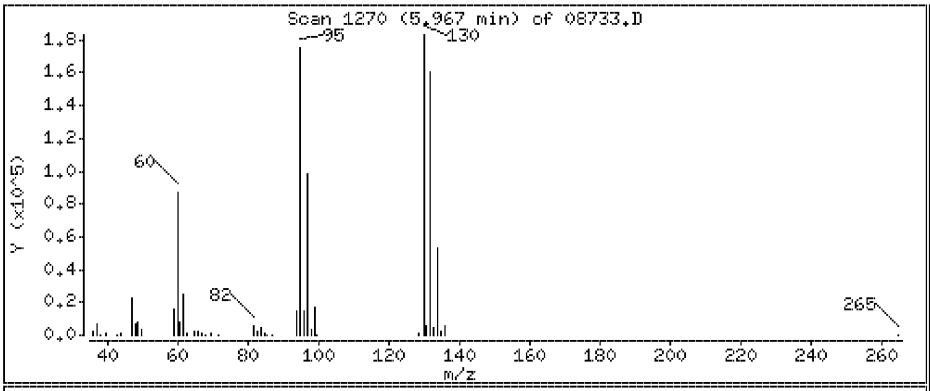
Operator: NCK

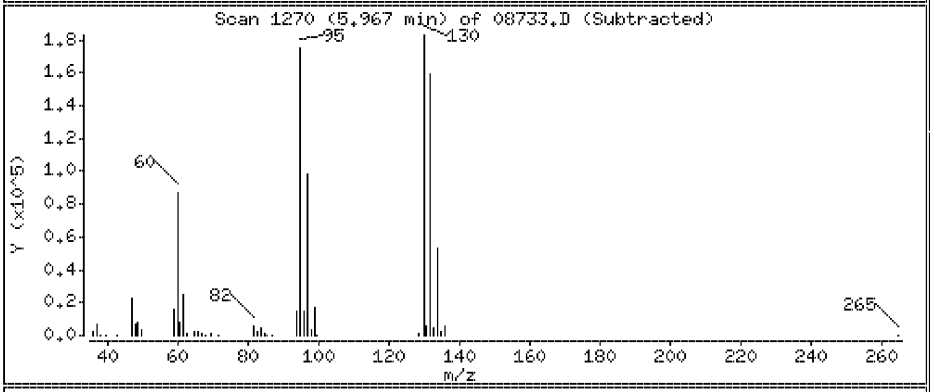
Column phase: J&W DB-5

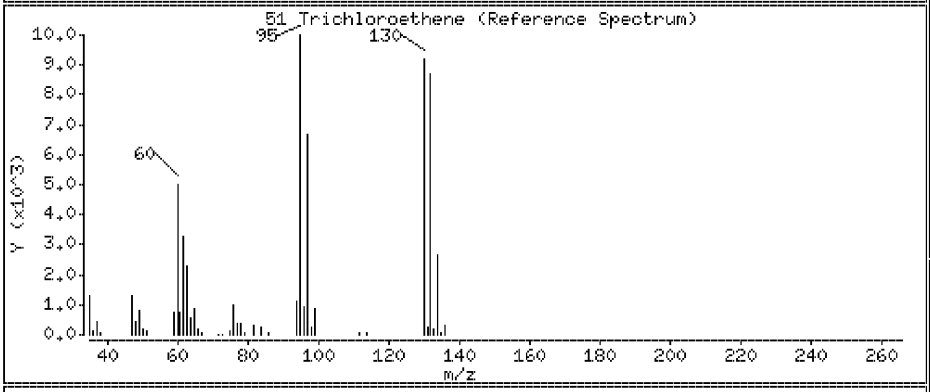
Column diameter: 0.32

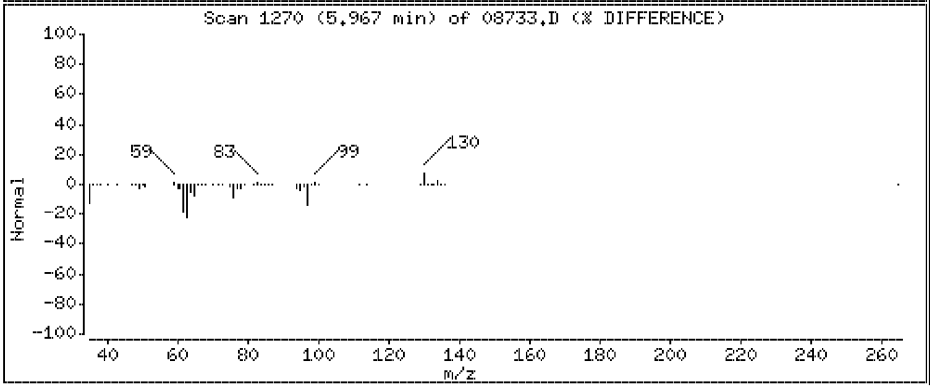
51 Trichloroethene

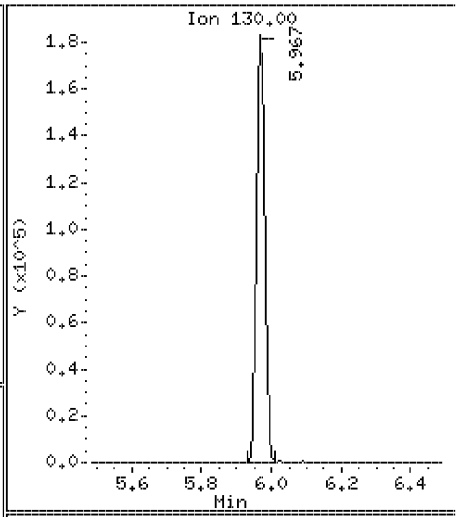
Concentration: 34.0 ppbv

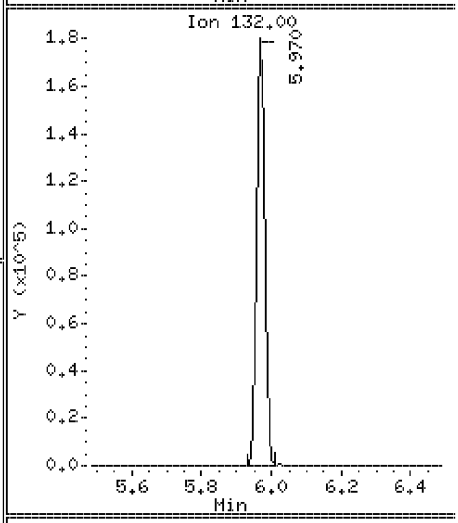


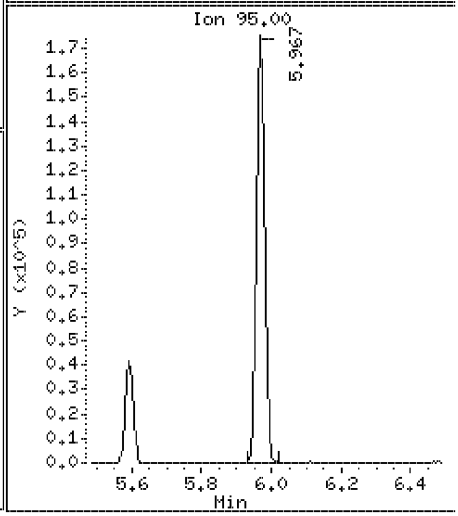












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08733.D

Date : 29-MAR-2017 01:33

Client ID:

Instrument: 10airB.i

Sample Info:

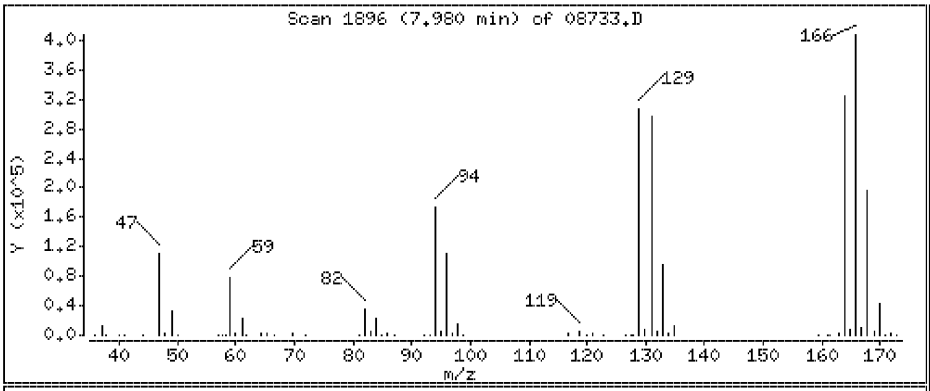
Operator: NCK

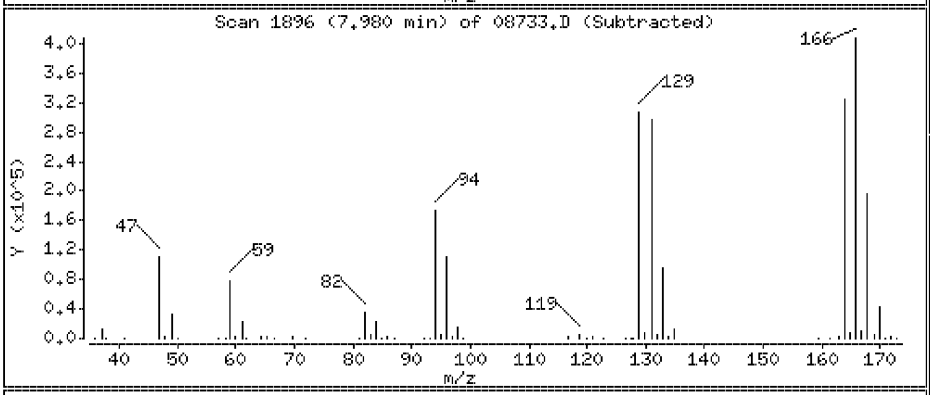
Column phase: J&W DB-5

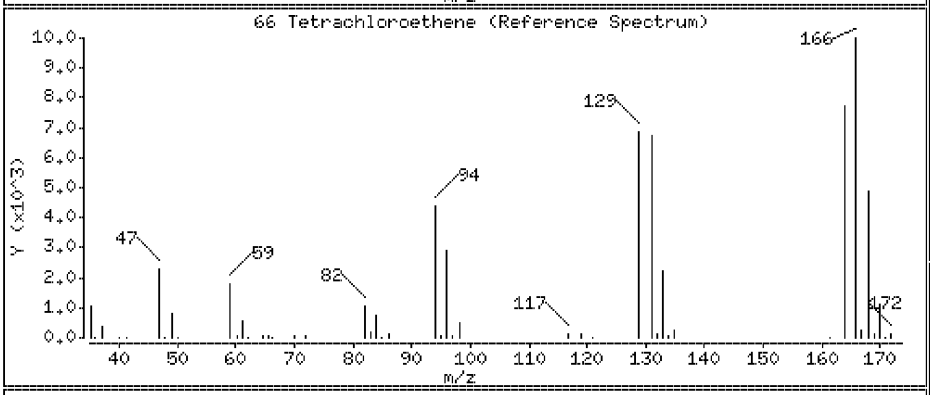
Column diameter: 0.32

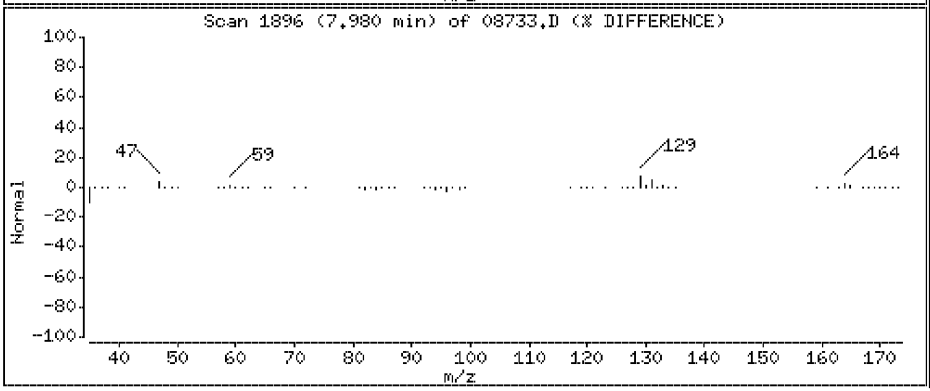
66 Tetrachloroethene

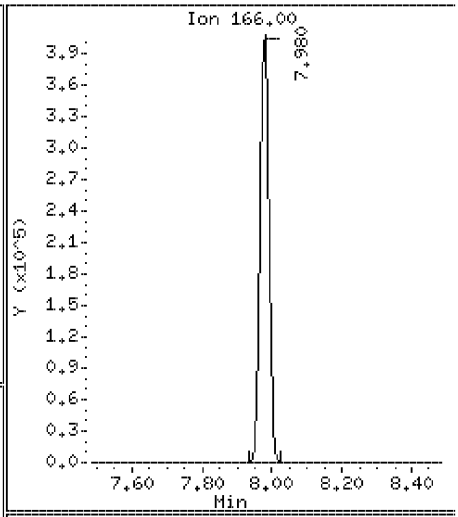
Concentration: 66.8 ppbv

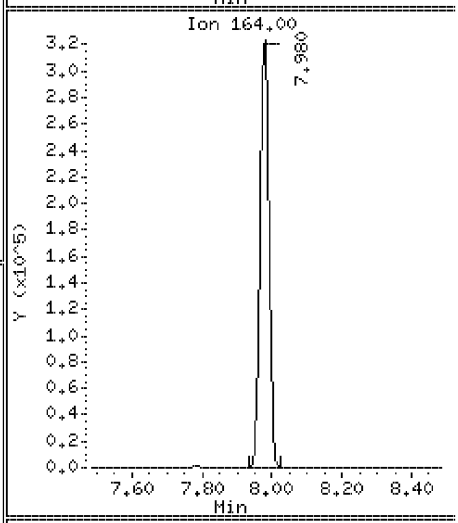


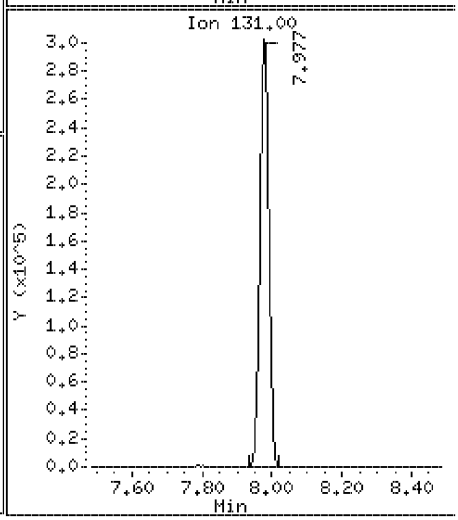












Data File: \\192.168.10.12\chem\10airB.i\032817.b/08733.D
Injection Date: 29-MAR-2017 01:33
Instrument: 10airB.i
Lab Sample ID: 10381335016
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_73_20170307 **Lab ID: 10381335016** Collected: 03/07/17 12:04 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<2.0**	ug/m3	21.0	2.0	8.4		03/29/17 01:33	67-63-0	
Styrene	**<1.6**	ug/m3	7.3	1.6	8.4		03/29/17 01:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.8**	ug/m3	5.9	2.8	8.4		03/29/17 01:33	79-34-5	
Tetrachloroethene	**461**	ug/m3	5.8	2.3	8.4		03/29/17 01:33	127-18-4	
Toluene	**<1.3**	ug/m3	6.5	1.3	8.4		03/29/17 01:33	108-88-3	
1,2,4-Trichlorobenzene	**<7.6**	ug/m3	31.7	7.6	8.4		03/29/17 01:33	120-82-1	
1,1,1-Trichloroethane	**5.9J**	ug/m3	9.3	2.1	8.4		03/29/17 01:33	71-55-6	
1,1,2-Trichloroethane	**<2.1**	ug/m3	4.6	2.1	8.4		03/29/17 01:33	79-00-5	
Trichloroethene	**186**	ug/m3	4.6	2.3	8.4		03/29/17 01:33	79-01-6	
Trichlorofluoromethane	**<1.1**	ug/m3	9.6	1.1	8.4		03/29/17 01:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	**32.5**	ug/m3	13.4	2.5	8.4		03/29/17 01:33	76-13-1	
1,2,4-Trimethylbenzene	**<1.0**	ug/m3	8.4	1.0	8.4		03/29/17 01:33	95-63-6	
1,3,5-Trimethylbenzene	**<1.5**	ug/m3	8.4	1.5	8.4		03/29/17 01:33	108-67-8	
Vinyl chloride	**<1.6**	ug/m3	2.2	1.6	8.4		03/29/17 01:33	75-01-4	
m&p-Xylene	**<6.6**	ug/m3	14.9	6.6	8.4		03/29/17 01:33	179601-23-1	
o-Xylene	**<2.9**	ug/m3	7.4	2.9	8.4		03/29/17 01:33	95-47-6	

Sample: VP-108_5_20170307 **Lab ID: 10381335017** Collected: 03/07/17 13:54 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**298**	ug/m3	3.9	1.3	1.61		03/28/17 19:08	67-64-1	
Allyl chloride	**<0.37**	ug/m3	2.6	0.37	1.61		03/28/17 19:08	107-05-1	
Benzene	**2.4**	ug/m3	0.52	0.20	1.61		03/28/17 19:08	71-43-2	
Bromodichloromethane	**<0.31**	ug/m3	2.2	0.31	1.61		03/28/17 19:08	75-27-4	
Bromoform	**<1.5**	ug/m3	3.4	1.5	1.61		03/28/17 19:08	75-25-2	
Bromomethane	**<0.50**	ug/m3	1.3	0.50	1.61		03/28/17 19:08	74-83-9	
1,3-Butadiene	**<0.28**	ug/m3	0.72	0.28	1.61		03/28/17 19:08	106-99-0	
2-Butanone (MEK)	**<0.37**	ug/m3	4.8	0.37	1.61		03/28/17 19:08	78-93-3	
Carbon disulfide	**<0.16**	ug/m3	1.0	0.16	1.61		03/28/17 19:08	75-15-0	
Carbon tetrachloride	**0.53J**	ug/m3	1.0	0.31	1.61		03/28/17 19:08	56-23-5	
Chlorobenzene	**<0.22**	ug/m3	1.5	0.22	1.61		03/28/17 19:08	108-90-7	
Chlorodifluoromethane	**<0.44**	ug/m3	1.2	0.44	1.61		03/28/17 19:08	75-45-6	
Chloroethane	**0.68J**	ug/m3	0.87	0.31	1.61		03/28/17 19:08	75-00-3	
Chloroform	**<0.31**	ug/m3	0.80	0.31	1.61		03/28/17 19:08	67-66-3	
Chloromethane	**1.8**	ug/m3	0.68	0.17	1.61		03/28/17 19:08	74-87-3	
Chloropentafluoroethane	**<5.2**	ug/m3	5.2	5.2	1.61		03/28/17 19:08	76-15-3	
Cyclohexane	**2.0**	ug/m3	1.1	0.51	1.61		03/28/17 19:08	110-82-7	
1,2-Dibromo-3-chloropropane	**<7.9**	ug/m3	7.9	7.9	1.61		03/28/17 19:08	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.8	1.4	1.61		03/28/17 19:08	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/m3	2.5	1.2	1.61		03/28/17 19:08	106-93-4	
1,2-Dichlorobenzene	**<0.82**	ug/m3	2.0	0.82	1.61		03/28/17 19:08	95-50-1	
1,3-Dichlorobenzene	**<0.85**	ug/m3	2.0	0.85	1.61		03/28/17 19:08	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_5_20170307 **Lab ID: 10381335017** Collected: 03/07/17 13:54 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.80**	ug/m3	2.0	0.80	1.61		03/28/17 19:08	106-46-7	
Dichlorodifluoromethane	**3.1**	ug/m3	1.6	0.77	1.61		03/28/17 19:08	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/m3	1.3	0.25	1.61		03/28/17 19:08	75-34-3	
1,2-Dichloroethane	**<0.33**	ug/m3	0.66	0.33	1.61		03/28/17 19:08	107-06-2	
1,1-Dichloroethene	**<0.38**	ug/m3	1.3	0.38	1.61		03/28/17 19:08	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.3	0.40	1.61		03/28/17 19:08	156-59-2	
trans-1,2-Dichloroethene	**<0.62**	ug/m3	1.3	0.62	1.61		03/28/17 19:08	156-60-5	
1,2-Dichloropropane	**<0.43**	ug/m3	1.5	0.43	1.61		03/28/17 19:08	78-87-5	
cis-1,3-Dichloropropene	**<0.59**	ug/m3	1.5	0.59	1.61		03/28/17 19:08	10061-01-5	
trans-1,3-Dichloropropene	**<0.42**	ug/m3	3.7	0.42	1.61		03/28/17 19:08	10061-02-6	
Dichlorotetrafluoroethane	**<0.50**	ug/m3	2.3	0.50	1.61		03/28/17 19:08	76-14-2	
Freon 123	**<5.1**	ug/m3	5.1	5.1	1.61		03/28/17 19:08	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.57**	ug/m3	5.9	0.57	1.61		03/28/17 19:08	123-91-1	
Ethylbenzene	**2.5**	ug/m3	1.4	0.68	1.61		03/28/17 19:08	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.6	0.30	1.61		03/28/17 19:08	622-96-8	
Hexachloro-1,3-butadiene	**<1.0**	ug/m3	3.5	1.0	1.61		03/28/17 19:08	87-68-3	
n-Hexane	**2.6**	ug/m3	1.2	0.57	1.61		03/28/17 19:08	110-54-3	
2-Hexanone	**<0.66**	ug/m3	6.7	0.66	1.61		03/28/17 19:08	591-78-6	
Isopropylbenzene (Cumene)	**<0.22**	ug/m3	4.0	0.22	1.61		03/28/17 19:08	98-82-8	
Methyl acetate	**<2.5**	ug/m3	2.5	2.5	1.61		03/28/17 19:08	79-20-9	
Methylcyclohexane	**0.97J**	ug/m3	1.3	0.39	1.61		03/28/17 19:08	108-87-2	
Methylene Chloride	**19.2**	ug/m3	5.7	0.87	1.61		03/28/17 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.35**	ug/m3	6.7	0.35	1.61		03/28/17 19:08	108-10-1	
Methyl-tert-butyl ether	**<0.49**	ug/m3	5.9	0.49	1.61		03/28/17 19:08	1634-04-4	
2-Propanol	**7.9**	ug/m3	4.0	0.39	1.61		03/28/17 19:08	67-63-0	
Styrene	**230**	ug/m3	1.4	0.31	1.61		03/28/17 19:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.53**	ug/m3	1.1	0.53	1.61		03/28/17 19:08	79-34-5	
Tetrachloroethene	**0.78J**	ug/m3	1.1	0.45	1.61		03/28/17 19:08	127-18-4	
Toluene	**8.3**	ug/m3	1.2	0.25	1.61		03/28/17 19:08	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.1	1.5	1.61		03/28/17 19:08	120-82-1	
1,1,1-Trichloroethane	**<0.40**	ug/m3	1.8	0.40	1.61		03/28/17 19:08	71-55-6	
1,1,2-Trichloroethane	**<0.40**	ug/m3	0.89	0.40	1.61		03/28/17 19:08	79-00-5	
Trichloroethene	**<0.44**	ug/m3	0.89	0.44	1.61		03/28/17 19:08	79-01-6	
Trichlorofluoromethane	**1.8J**	ug/m3	1.8	0.21	1.61		03/28/17 19:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.48**	ug/m3	2.6	0.48	1.61		03/28/17 19:08	76-13-1	
1,2,4-Trimethylbenzene	**3.1**	ug/m3	1.6	0.20	1.61		03/28/17 19:08	95-63-6	
1,3,5-Trimethylbenzene	**0.99J**	ug/m3	1.6	0.29	1.61		03/28/17 19:08	108-67-8	
Vinyl chloride	**<0.31**	ug/m3	0.42	0.31	1.61		03/28/17 19:08	75-01-4	
m&p-Xylene	**10.5**	ug/m3	2.8	1.3	1.61		03/28/17 19:08	179601-23-1	
o-Xylene	**4.2**	ug/m3	1.4	0.57	1.61		03/28/17 19:08	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D
Report Date: 03-Apr-2017 15:03

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08720.D
Lab Smp Id: 10381335017
Inj Date : 28-MAR-2017 19:08
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 20
Dil Factor: 1.61000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.610	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.066	3.028	(0.548)	45414	0.38014	0.612(H)	
6	Chloromethane	50	3.157	3.127	(0.564)	26648	0.54084	0.871	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	3.459	3.442	(0.618)	2707	0.15705	0.253(H)	
12	Ethanol	45	3.546	3.539	(0.633)	21010	1.46001	2.35	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.584	3.581	(0.640)	31409	0.76698	1.23	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.658	3.658	(0.654)	16624	0.19879	0.320	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.710	3.713	(0.663)	4346217	76.6511	123	
19	Isopropyl Alcohol	45	3.774	3.764	(0.674)	125237	1.96227	3.16	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D
Report Date: 03-Apr-2017 15:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	4.009	3.999	(0.716)	147103	3.38423	5.45	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.478	(0.800)	733358	9.00777	9.01	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.574	4.574	(0.817)	28760	0.44796	0.721(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.713	4.712	(0.842)	12964	0.15727	0.253(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	5.009	4.992	(0.895)	7135	0.14380	0.232(Q)	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	5.455	5.462	(0.975)	57698	0.46091	0.742	
	44 Carbon tetrachloride	117	5.472	5.481	(0.978)	4594	0.05123	0.0825	
	45 Cyclohexane	56	5.475	5.484	(0.978)	25305	0.35177	0.566(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	2170292	10.0000		
	48 2,2,4-Trimethylpentane	57	5.758	5.767	(1.029)	119143	0.54320	0.875	
	49 Heptane	43	5.877	5.886	(1.050)	14274	0.18068	0.291	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.970	5.986	(1.067)	3292	0.05011	0.0807	
	52 Methyl methacrylate	69	6.041	6.044	(1.079)	79930	1.78739	2.88	
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	6.420	6.433	(1.147)	5485	0.14810	0.238	
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.073	(1.263)	1852859	10.1268	10.1	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.150	(1.276)	204360	1.34157	2.16	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.578	7.581	(0.877)	20194	0.18883	0.304	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	6240	0.07000	0.113	
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1361067	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.925	8.931	(1.034)	69397	0.34788	0.560	
	70 m&p-Xylene	91	9.069	9.079	(1.050)	226178	1.48398	2.39	
	71 n-Nonane	43	9.465	9.471	(1.096)	17341	0.18263	0.294(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.504	9.507	(1.101)	3692941	32.9746	53.1(A)	
	74 o-Xylene	91	9.574	9.577	(1.109)	93075	0.59504	0.958	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D
Report Date: 03-Apr-2017 15:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)		
78	4-Ethyltoluene	105	10.905	10.912	(1.263)	27171	0.14357	0.231		
79	1,3,5-Trimethylbenzene	105	10.992	10.998	(1.273)	20470	0.12310	0.198		
80	n-Decane	57	11.381	11.378	(2.033)	13479	0.14343	0.231	(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.							(D)
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.333)	56658	0.38366	0.618		
83	1,3-Dichlorobenzene	146	Compound Not Detected.							(D)
84	Sec- Butylbenzene	105	Compound Not Detected.							
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	644605	9.97651	9.98		
86	Benzyl Chloride	91	Compound Not Detected.							
87	1,4-Dichlorobenzene	146	Compound Not Detected.							(D)
88	p-Isopropyltoluene	119	Compound Not Detected.							(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.							(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.							
91	N-Butylbenzene	91	Compound Not Detected.							
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.							
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.							
94	Naphthalene	128	Compound Not Detected.							
95	Hexachlorobutadiene	225	Compound Not Detected.							

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D
Report Date: 03-Apr-2017 15:03

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08720.D
Lab Smp Id: 10381335017
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

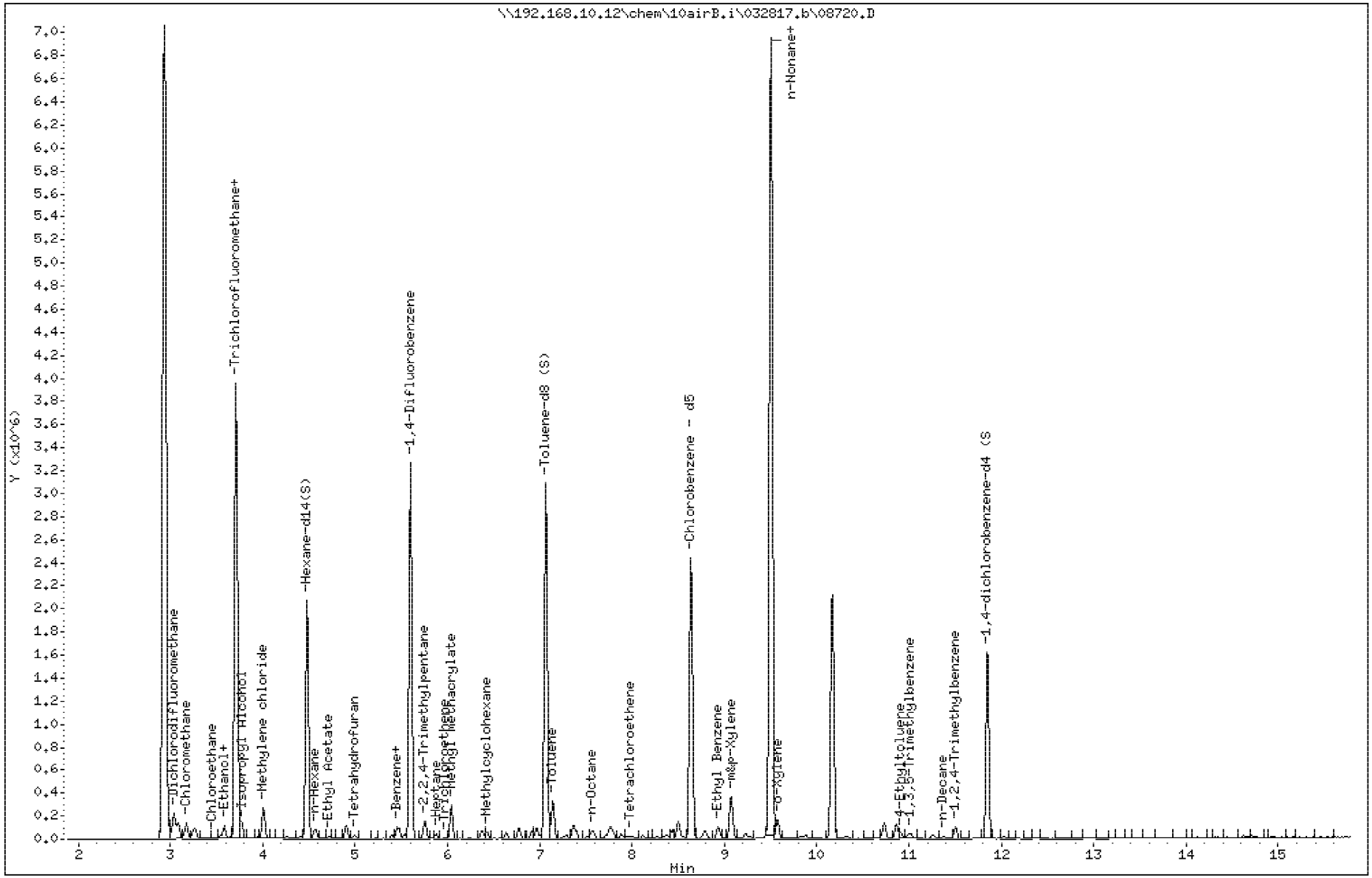
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2170292	-23.36
67 Chlorobenzene - d	1804482	1082689	2526275	1361067	-24.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D
Date : 28-MAR-2017 19:08
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

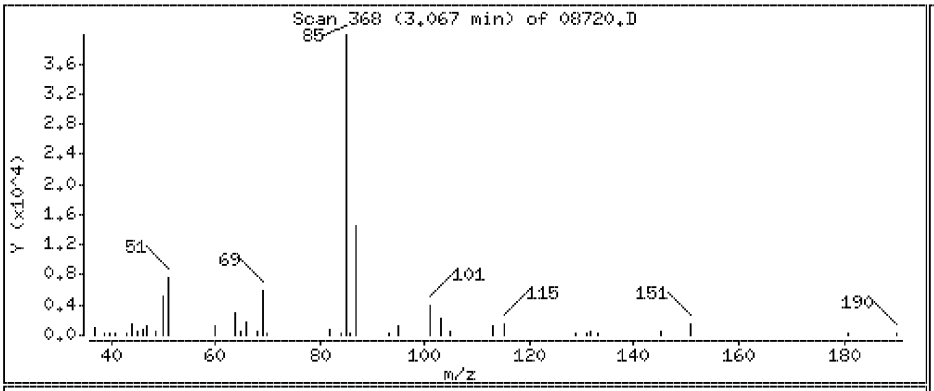
Operator: NCK

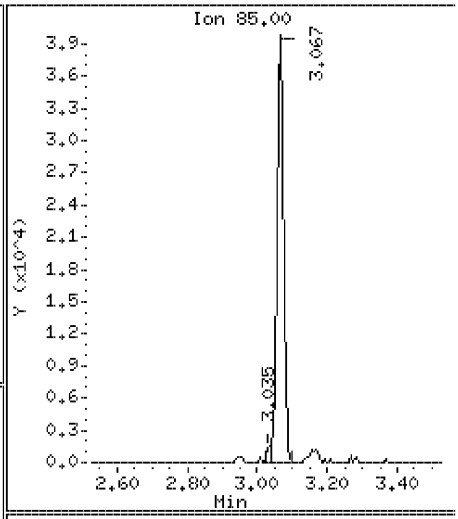
Column phase: J&W DB-5

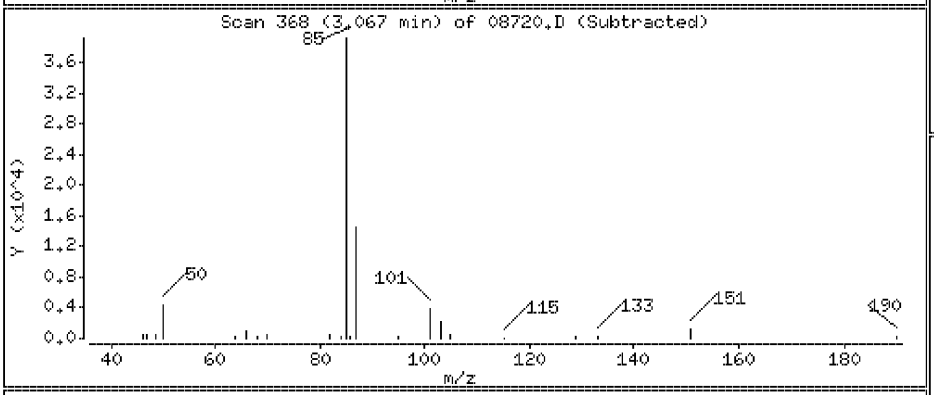
Column diameter: 0.32

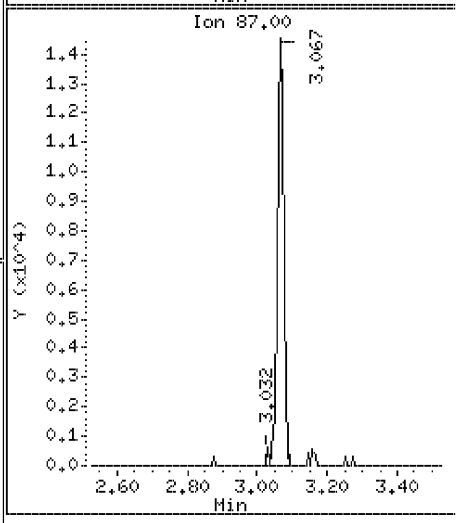
5 Dichlorodifluoromethane

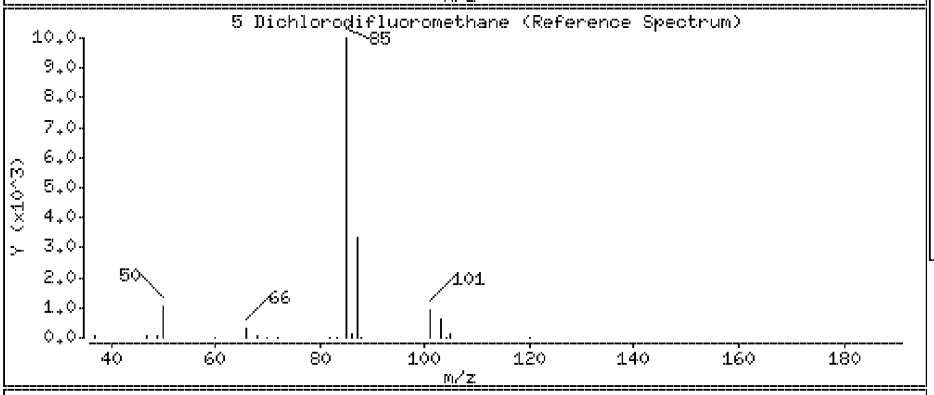
Concentration: 0.612 ppbv

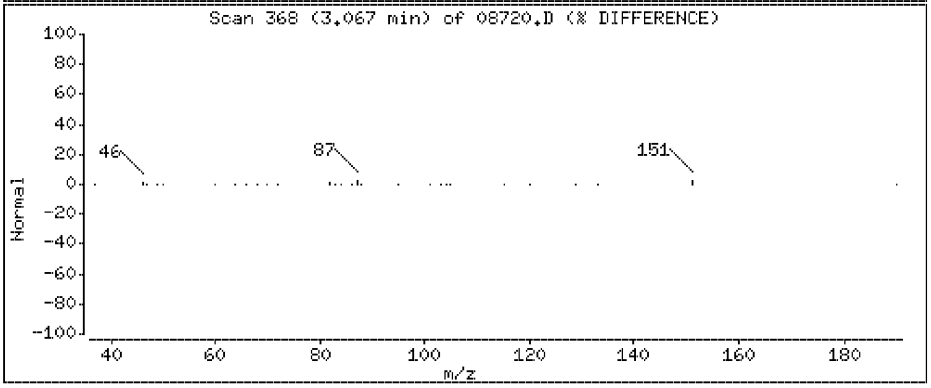












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

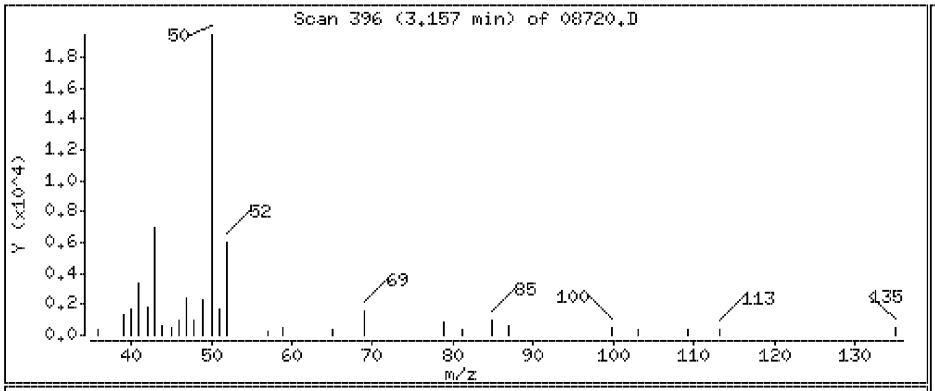
Operator: NCK

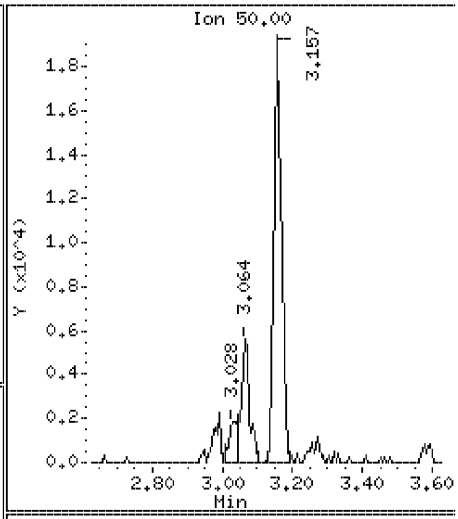
Column phase: J&W DB-5

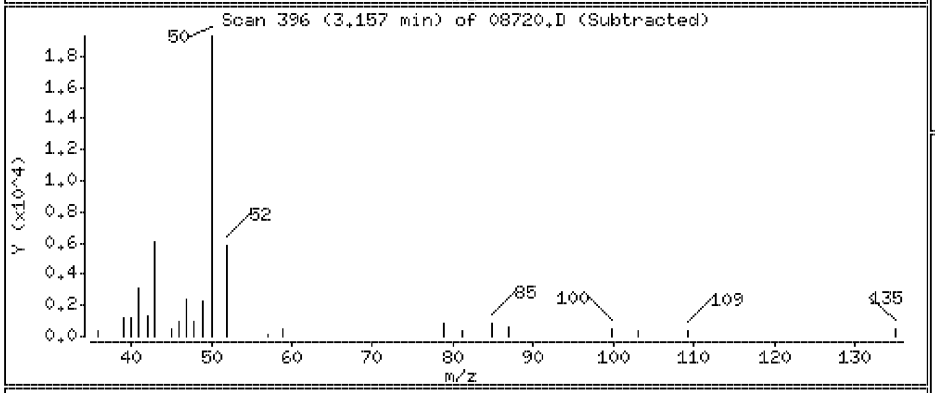
Column diameter: 0.32

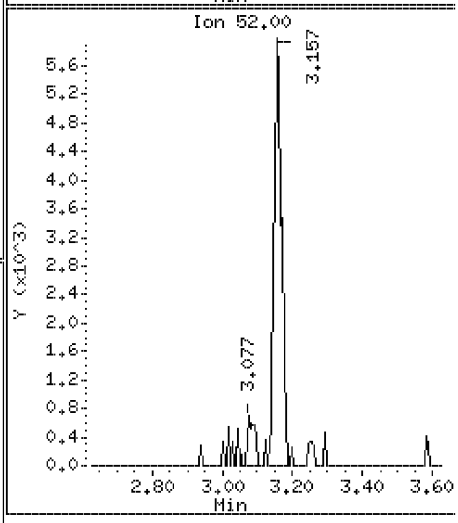
6 Chloromethane

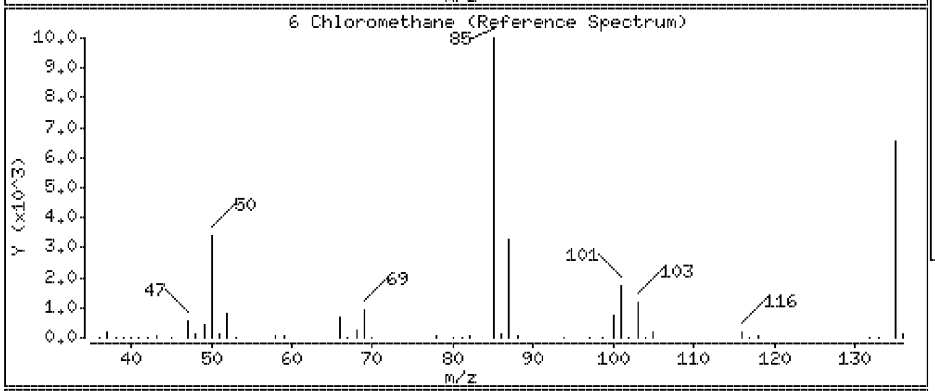
Concentration: 0.871 ppbv

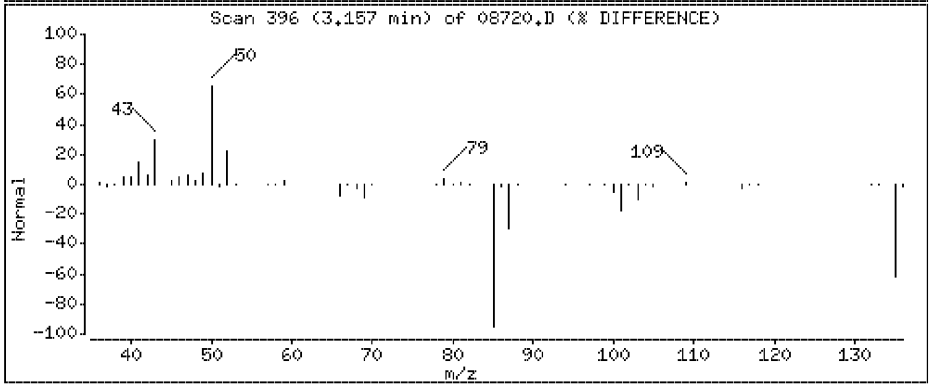












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

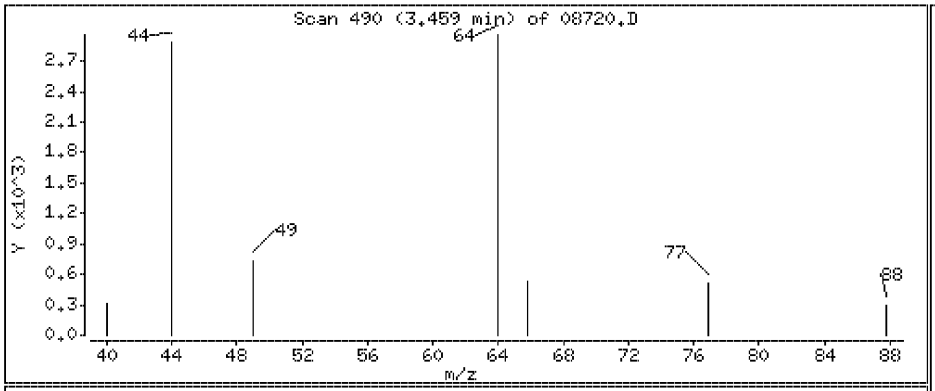
Operator: NCK

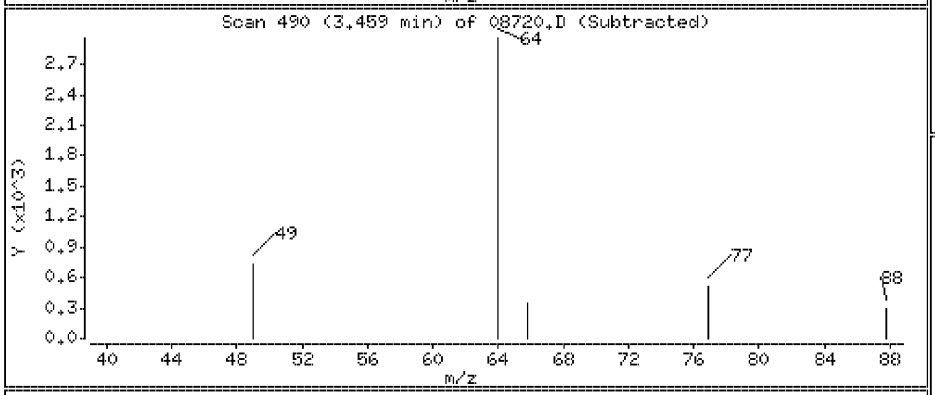
Column phase: J&W DB-5

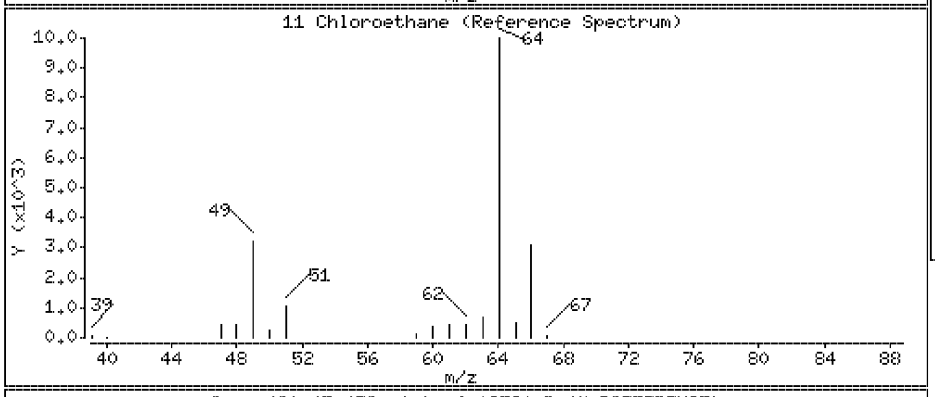
Column diameter: 0.32

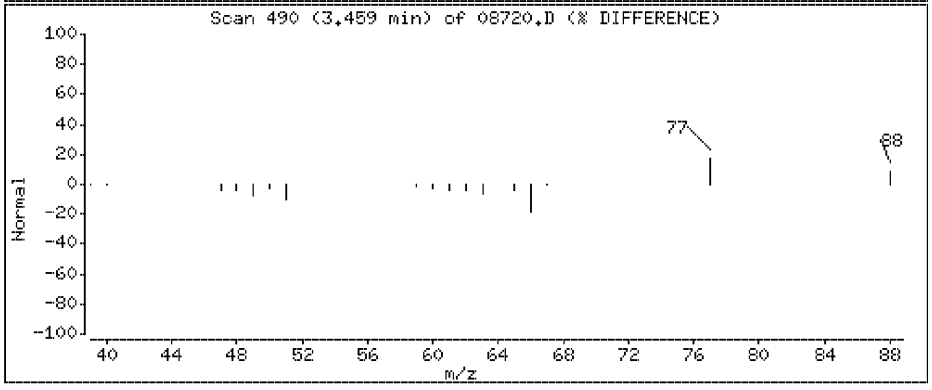
11 Chloroethane

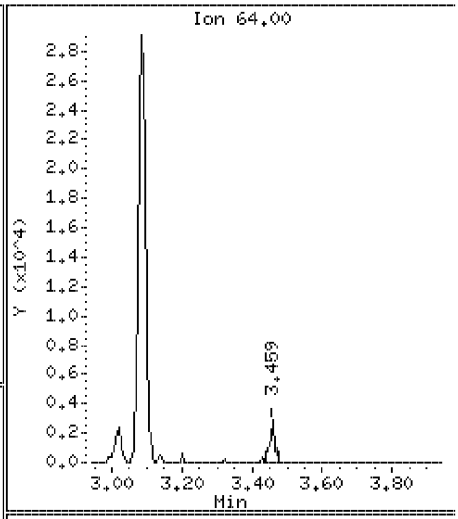
Concentration: 0.253 ppbv

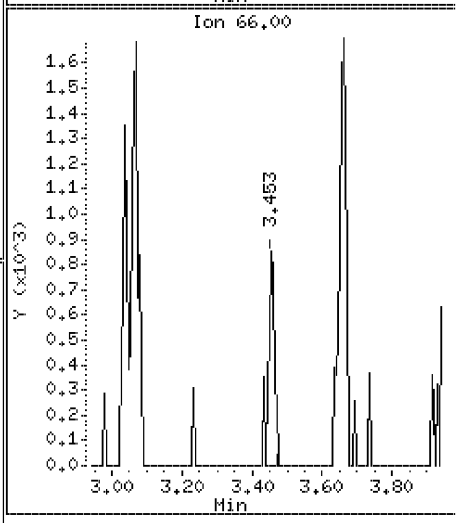












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

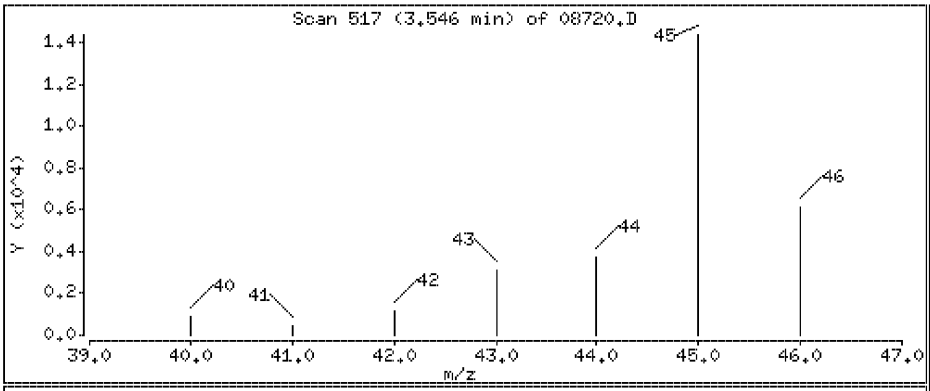
Operator: NCK

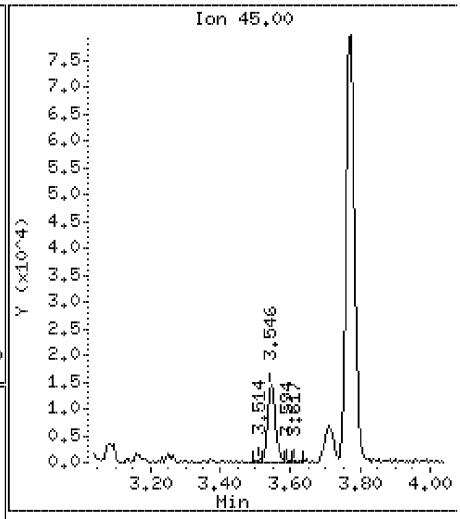
Column phase: J&W DB-5

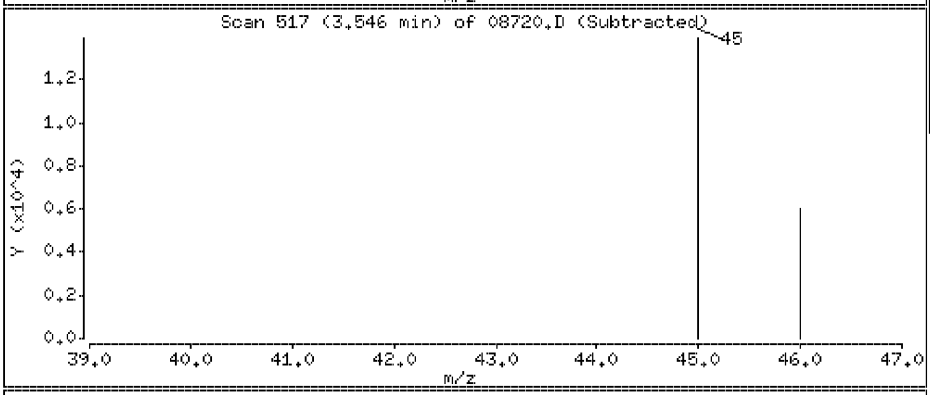
Column diameter: 0.32

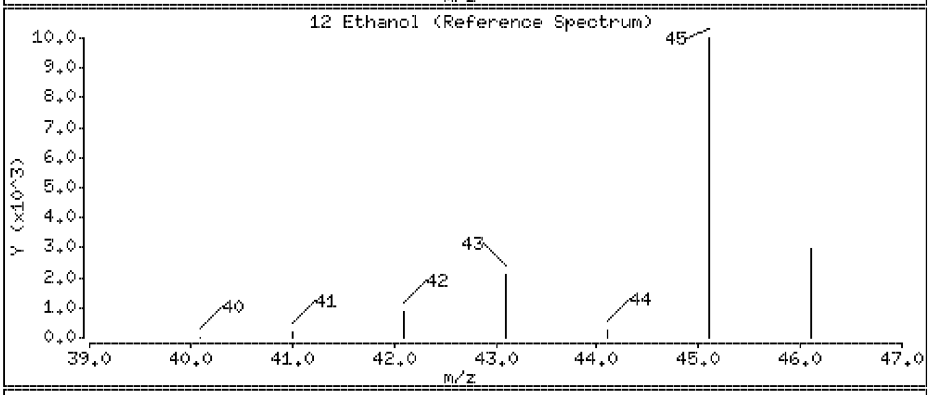
12 Ethanol

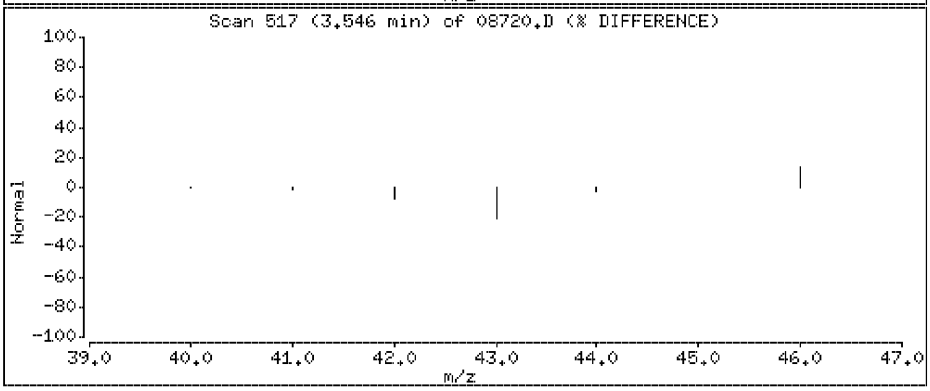
Concentration: 2.35 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

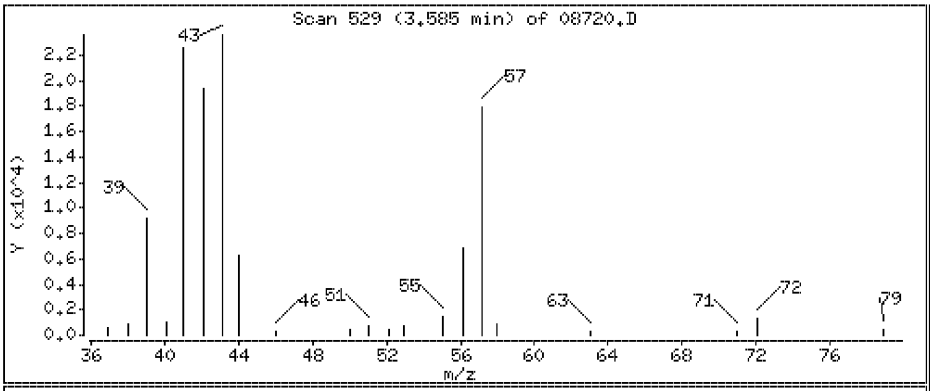
Operator: NCK

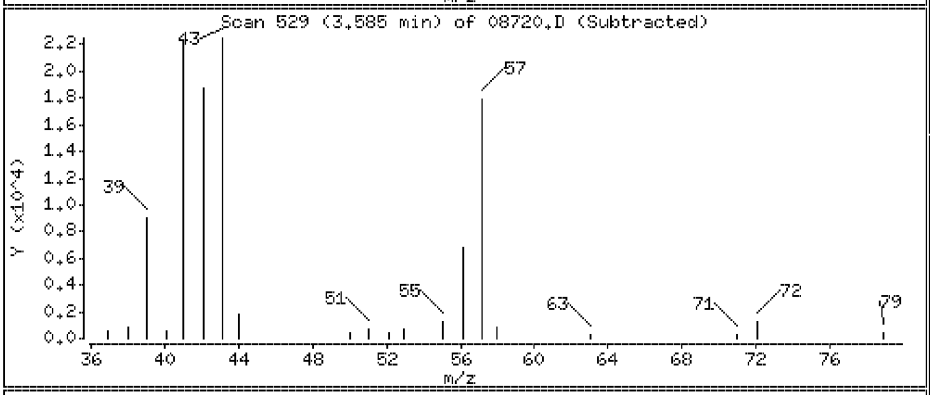
Column phase: J&W DB-5

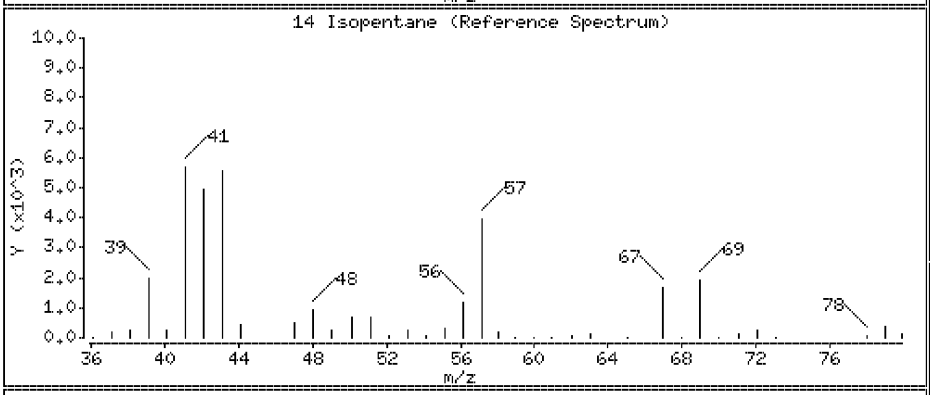
Column diameter: 0.32

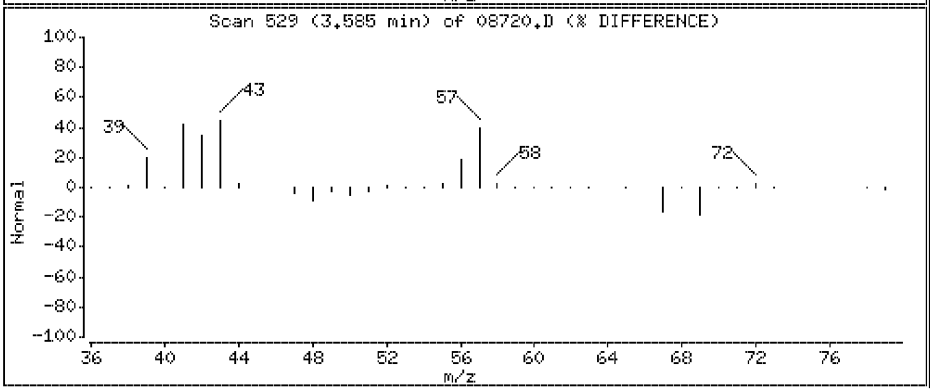
14 Isopentane

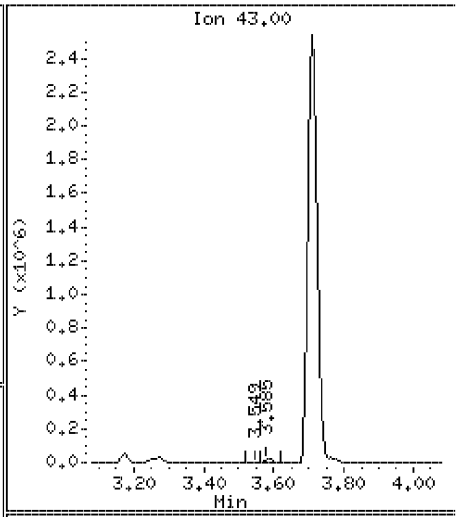
Concentration: 1.23 ppbv

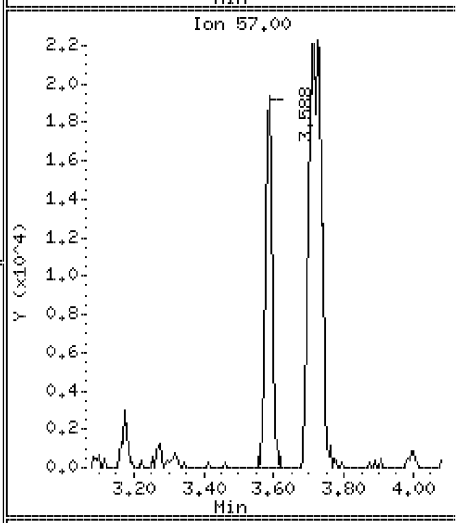


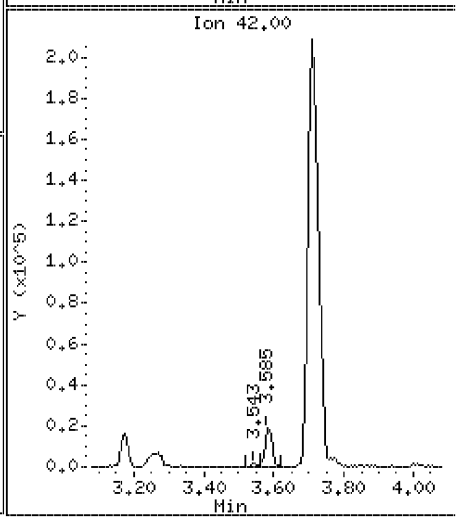












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

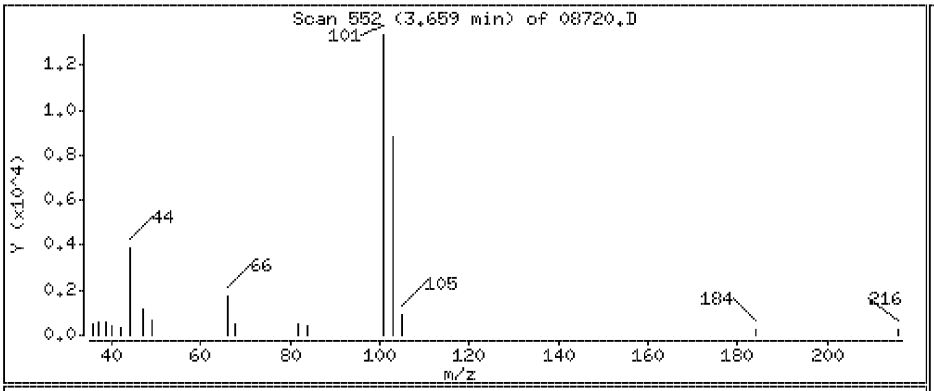
Operator: NCK

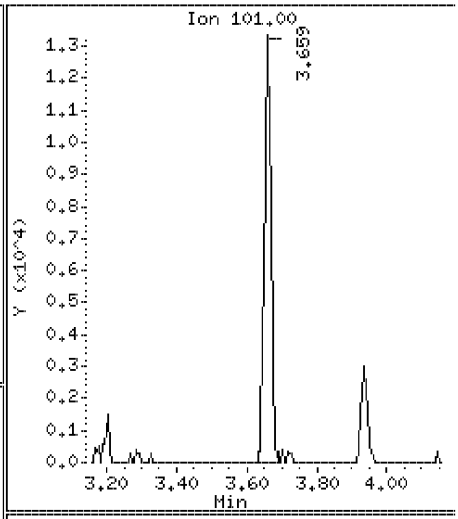
Column phase: J&W DB-5

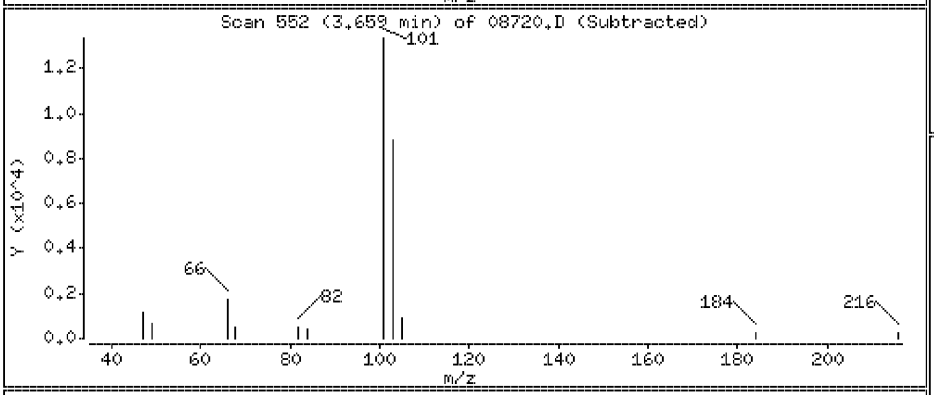
Column diameter: 0.32

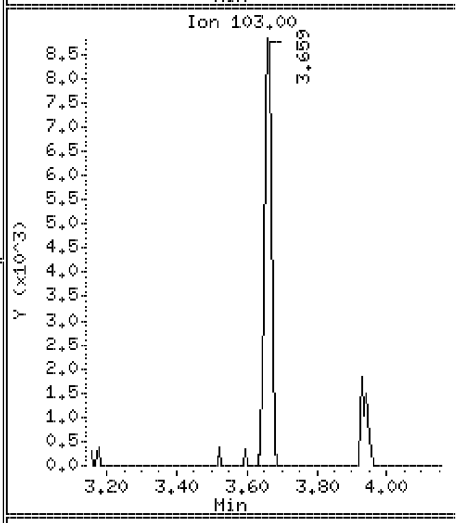
16 Trichlorofluoromethane

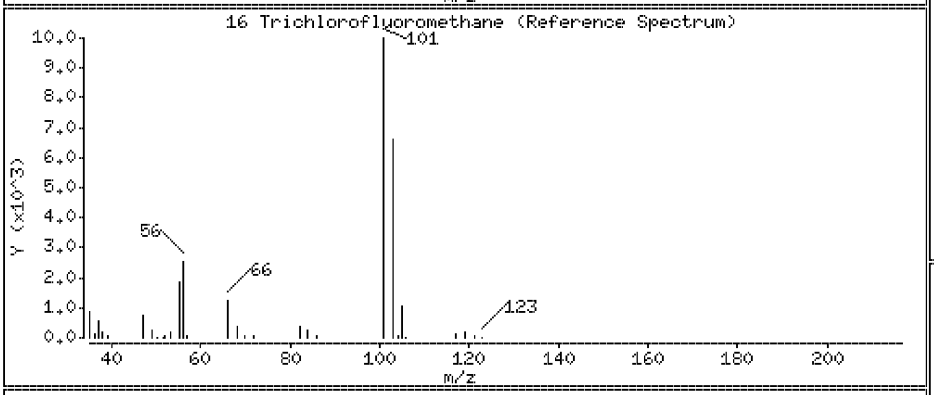
Concentration: 0.320 ppbv

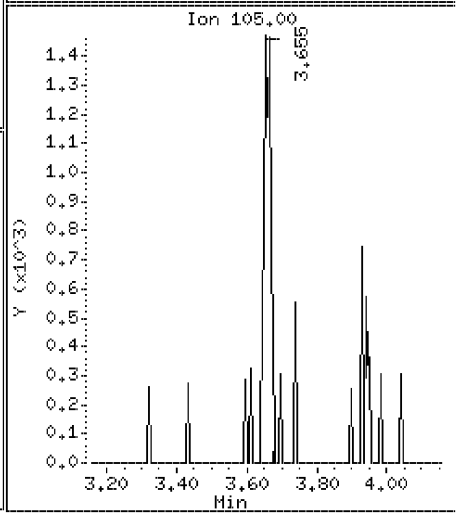


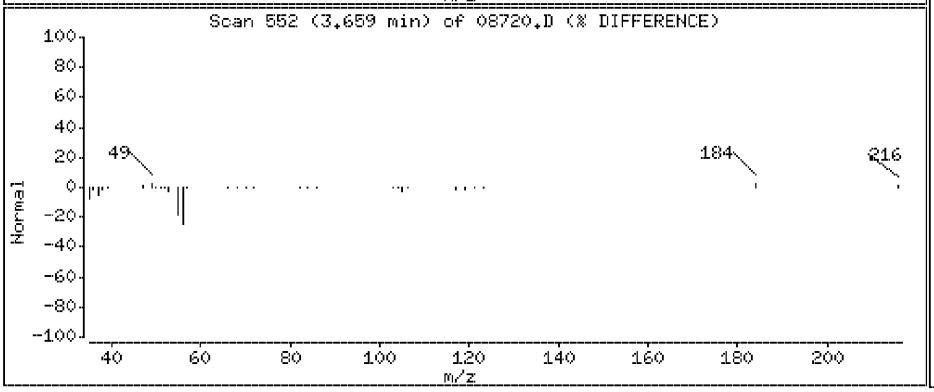












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

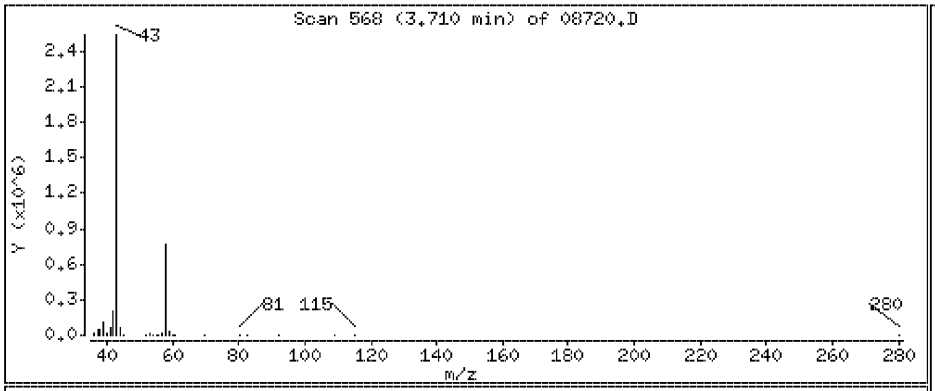
Operator: NCK

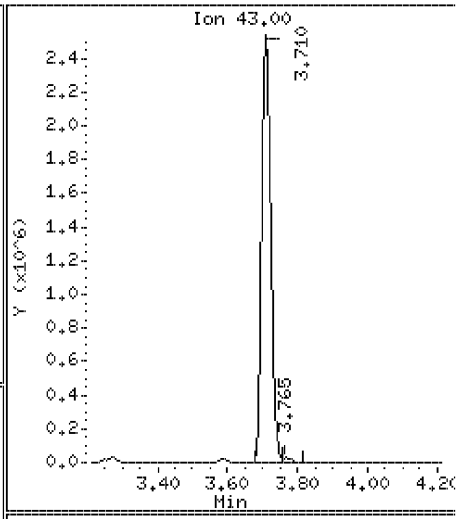
Column phase: J&W DB-5

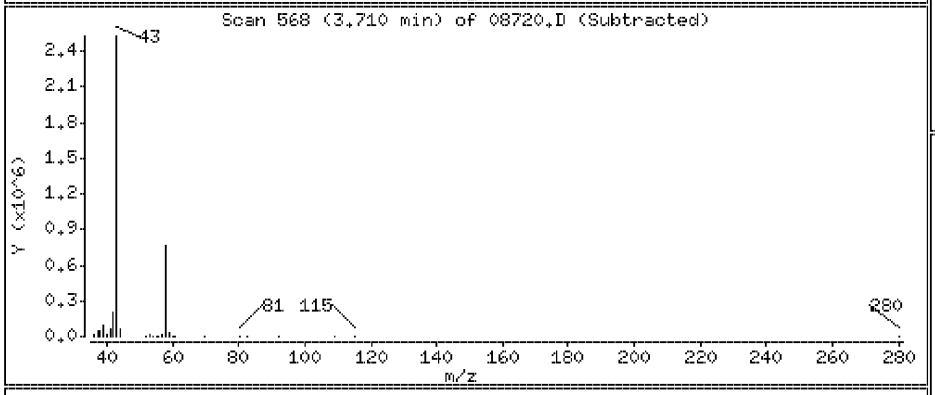
Column diameter: 0.32

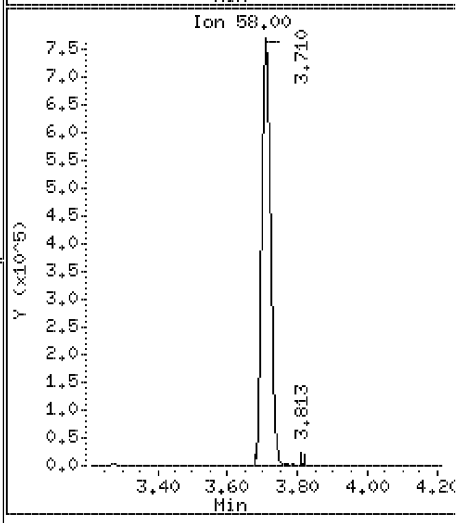
18 Acetone

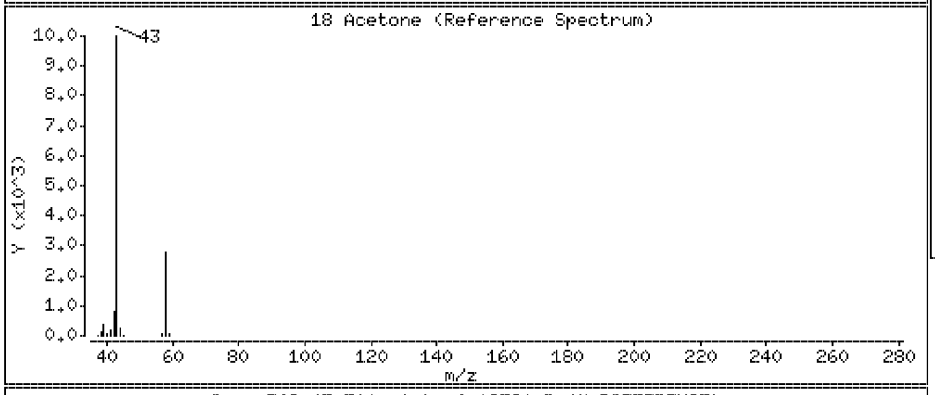
Concentration: 123 ppbv

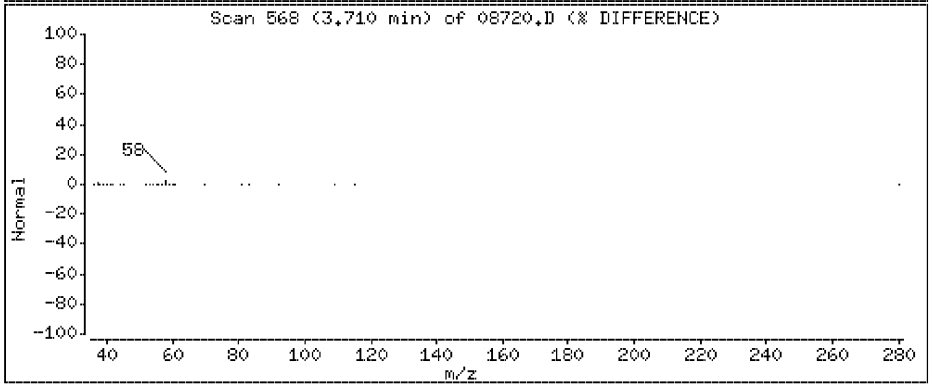












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

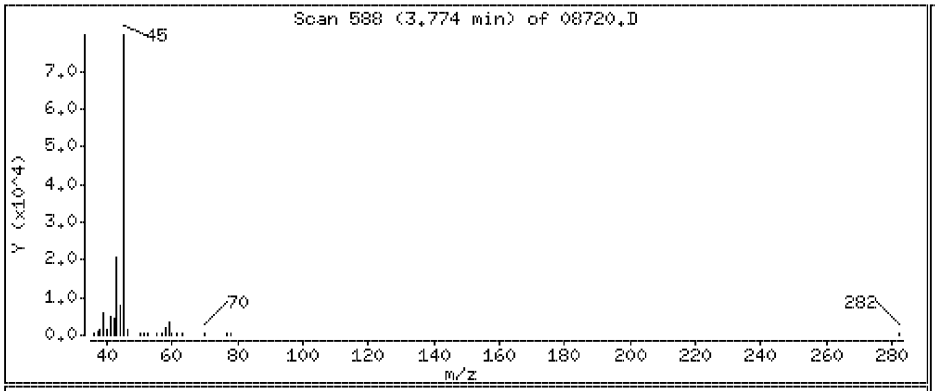
Operator: NCK

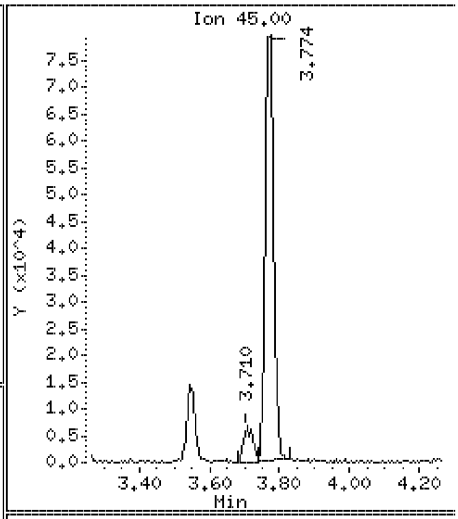
Column phase: J&W DB-5

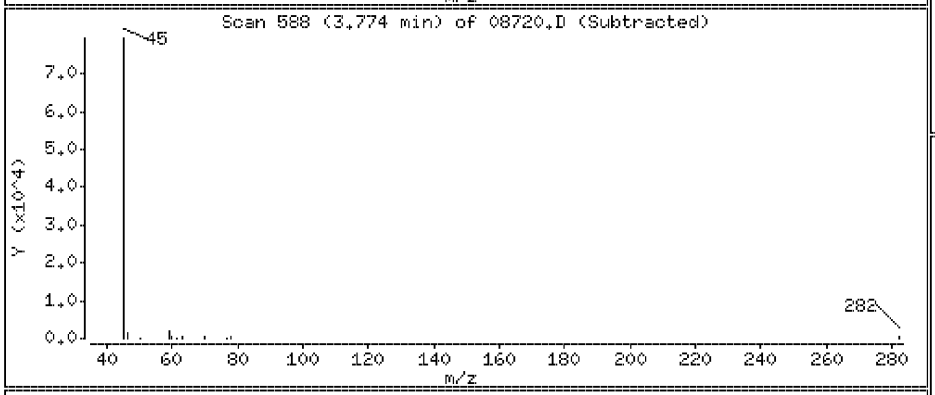
Column diameter: 0.32

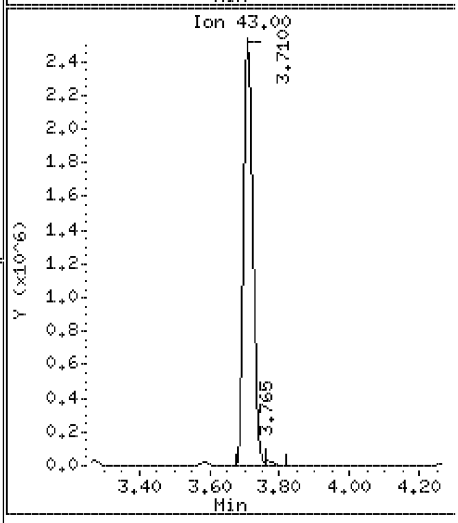
19 Isopropyl Alcohol

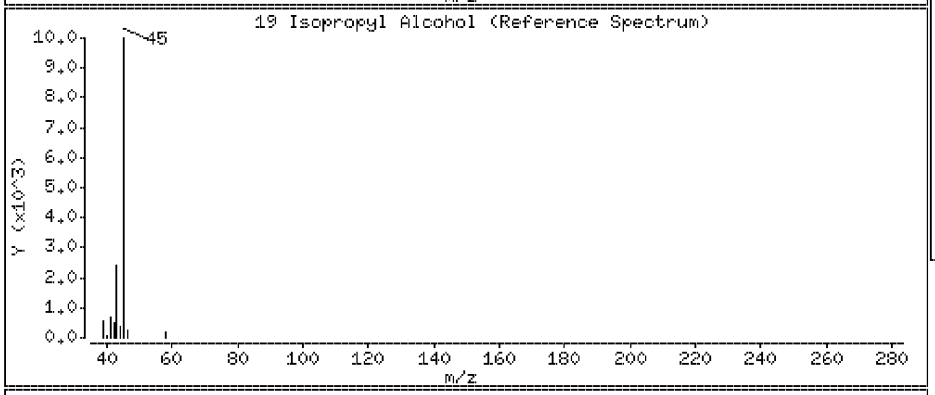
Concentration: 3.16 ppbv

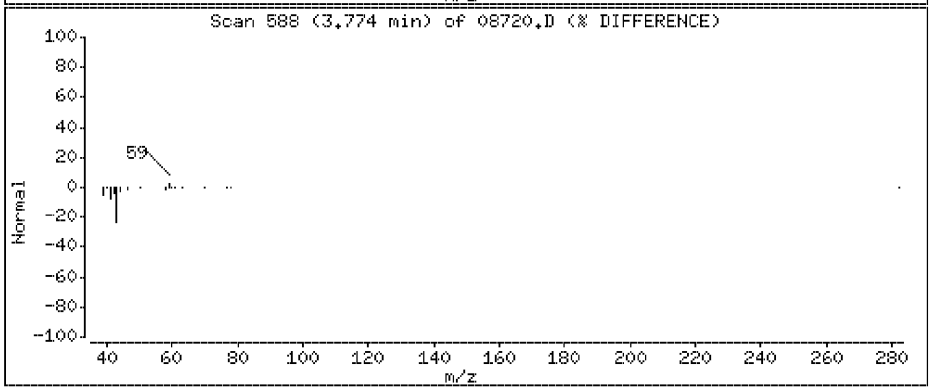












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

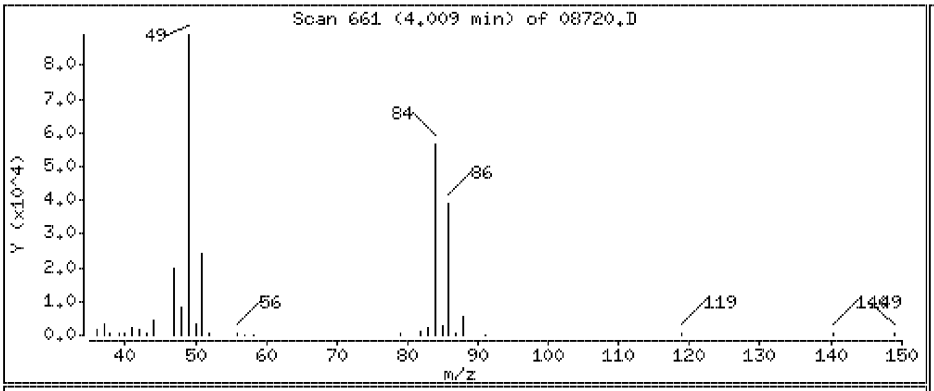
Operator: NCK

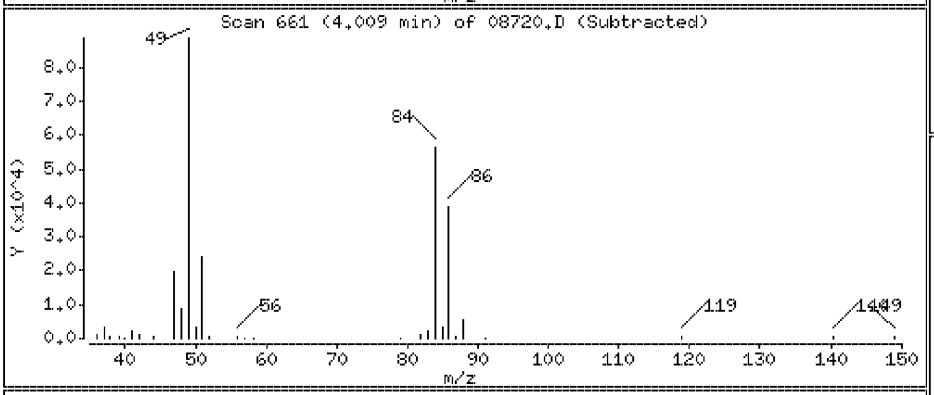
Column phase: J&W DB-5

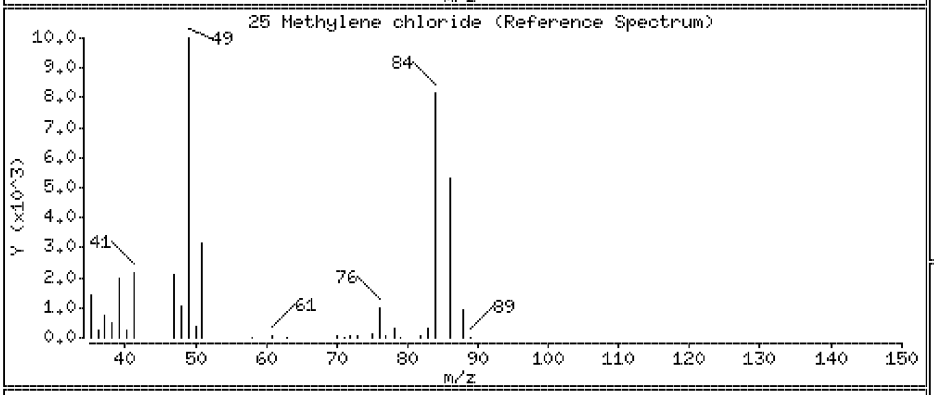
Column diameter: 0.32

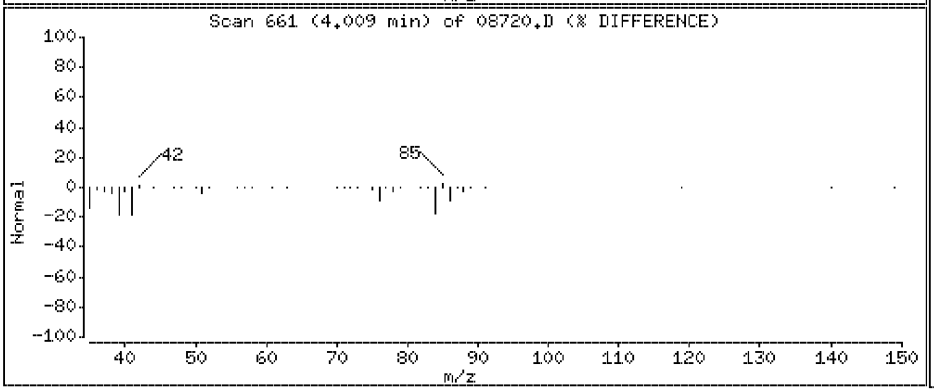
25 Methylene chloride

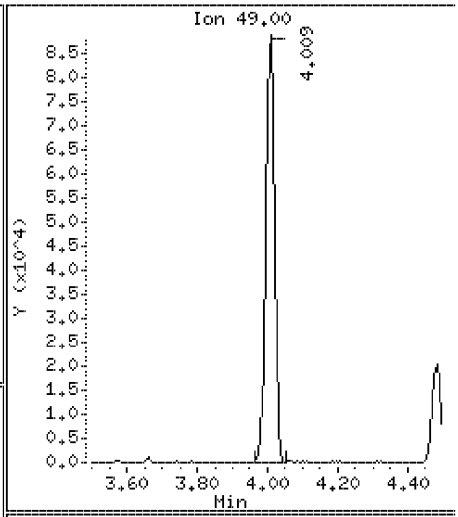
Concentration: 5.45 ppbv

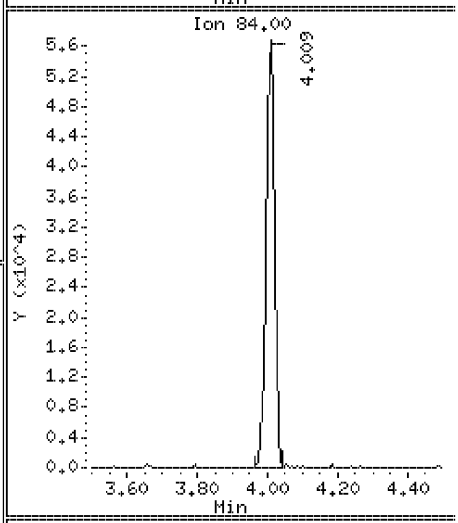


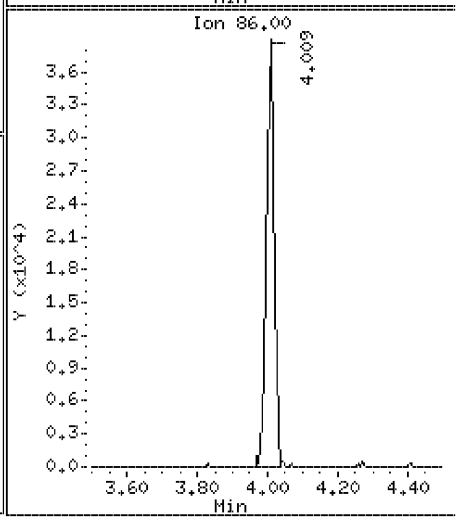












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

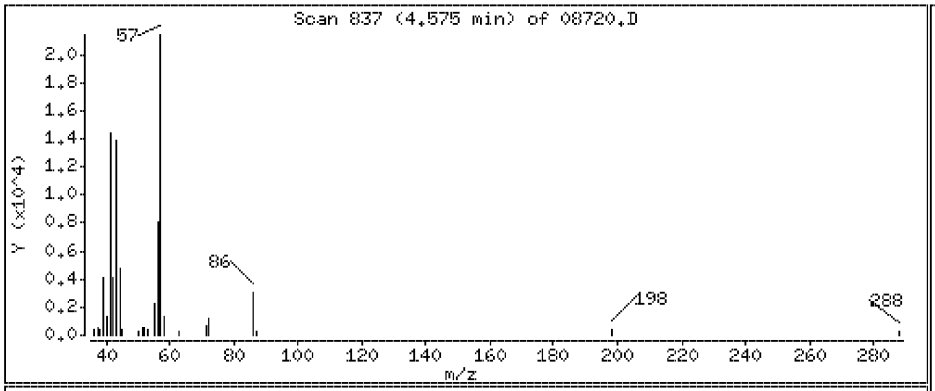
Operator: NCK

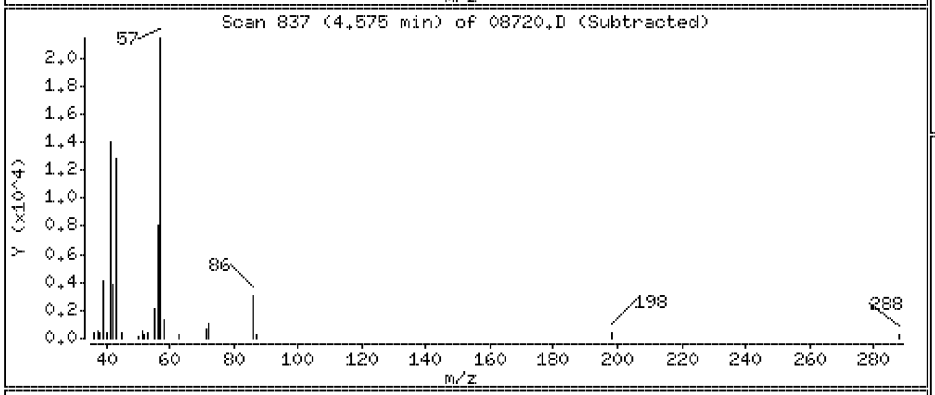
Column phase: J&W DB-5

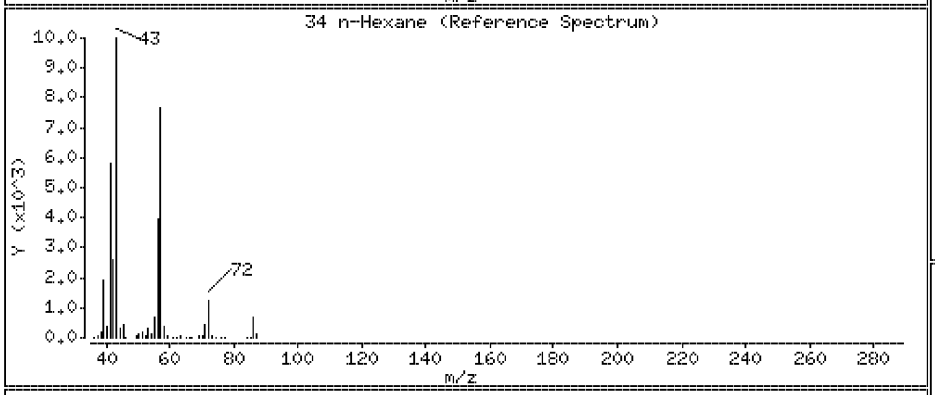
Column diameter: 0.32

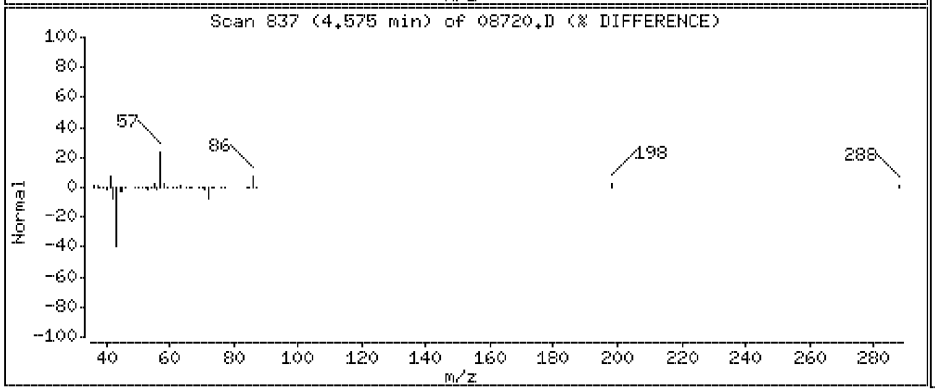
34 n-Hexane

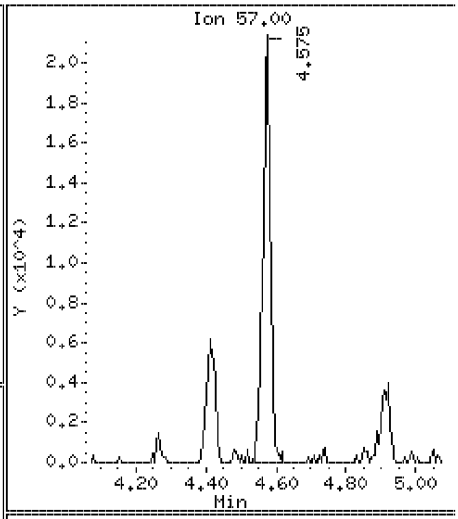
Concentration: 0.721 ppbv

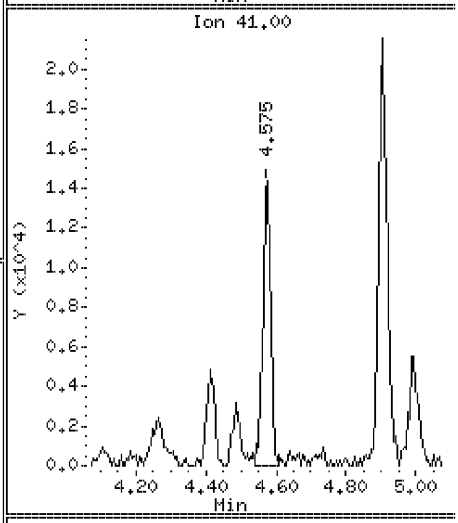


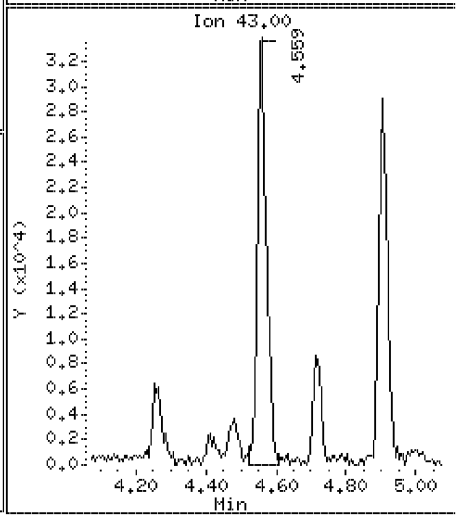












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

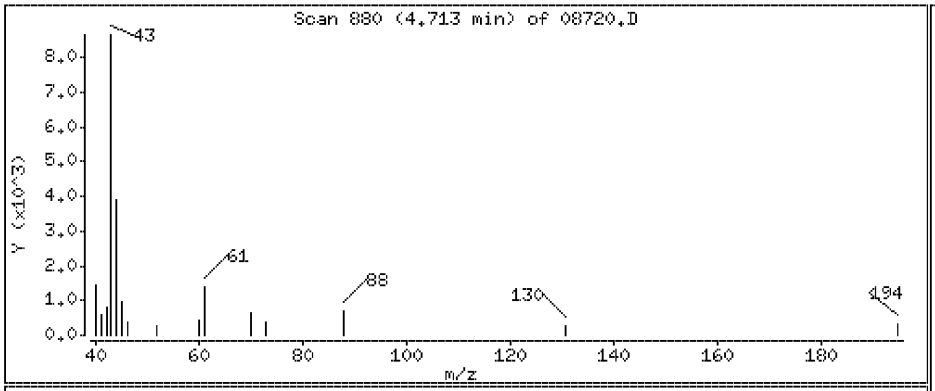
Operator: NCK

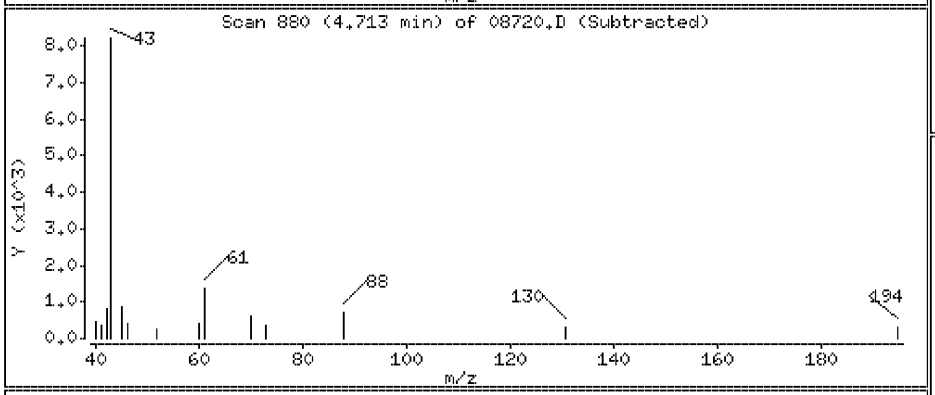
Column phase: J&W DB-5

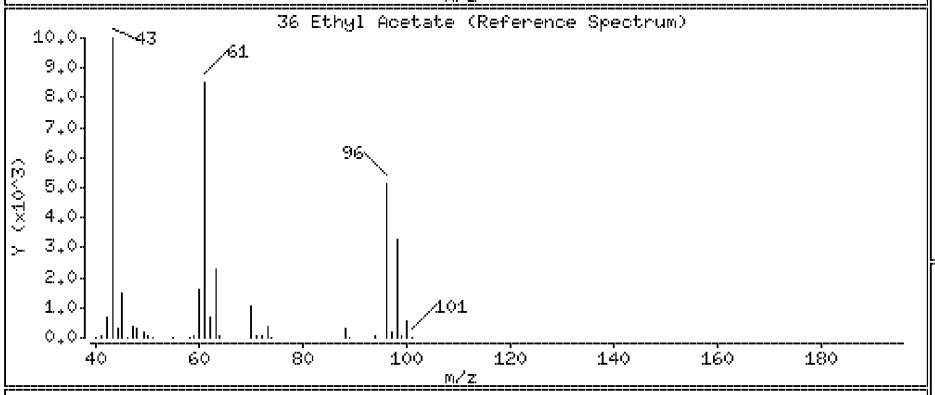
Column diameter: 0.32

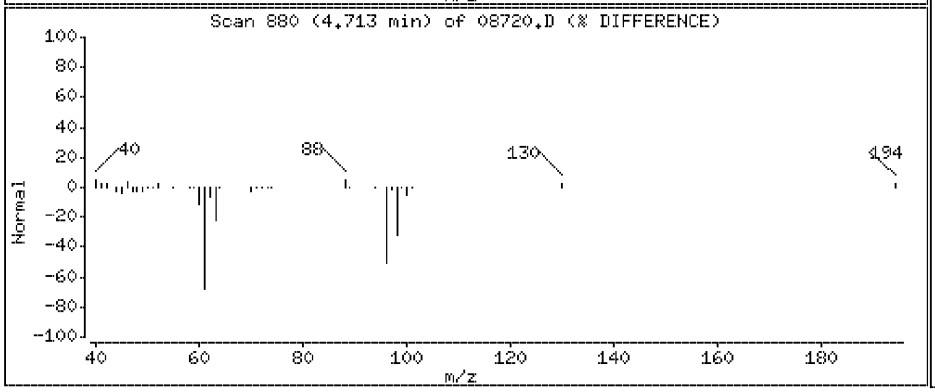
36 Ethyl Acetate

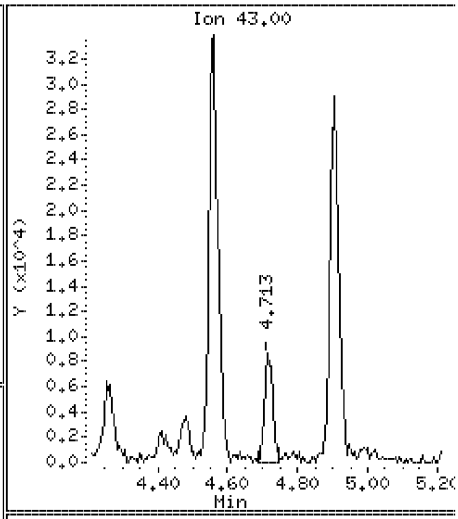
Concentration: 0.253 ppbv

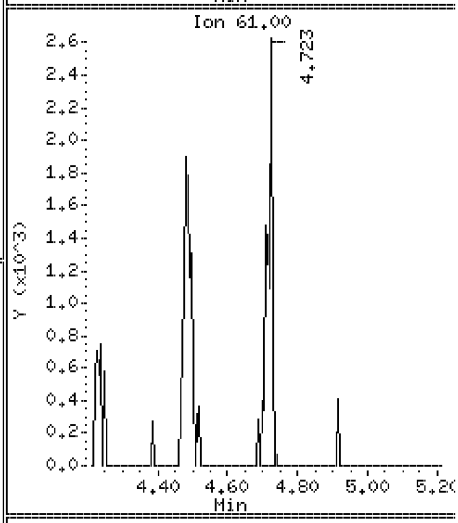


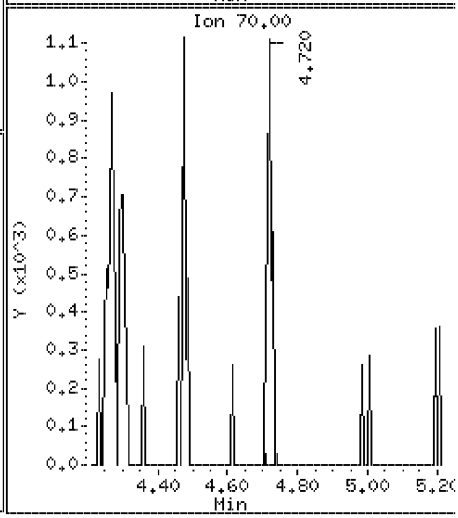












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

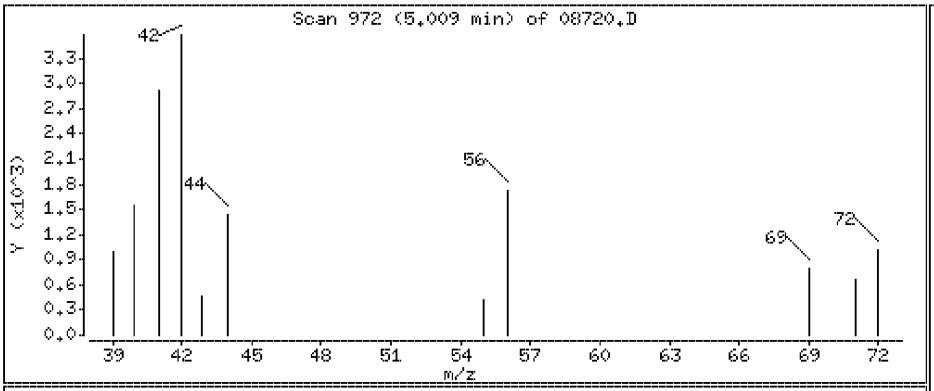
Operator: NCK

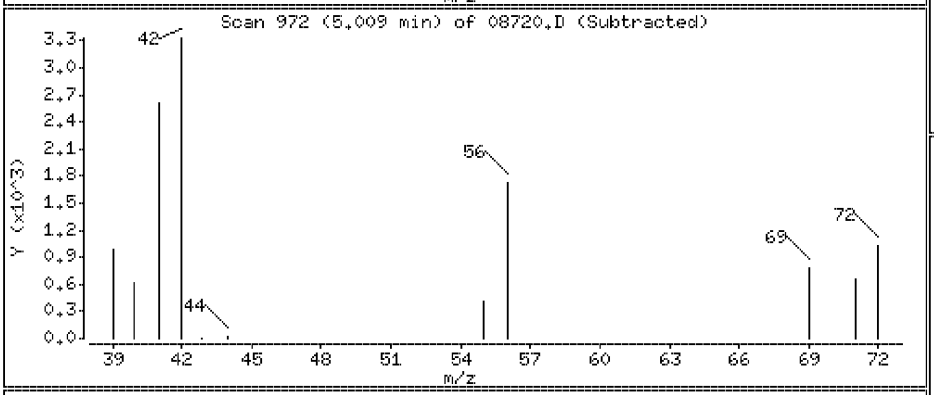
Column phase: J&W DB-5

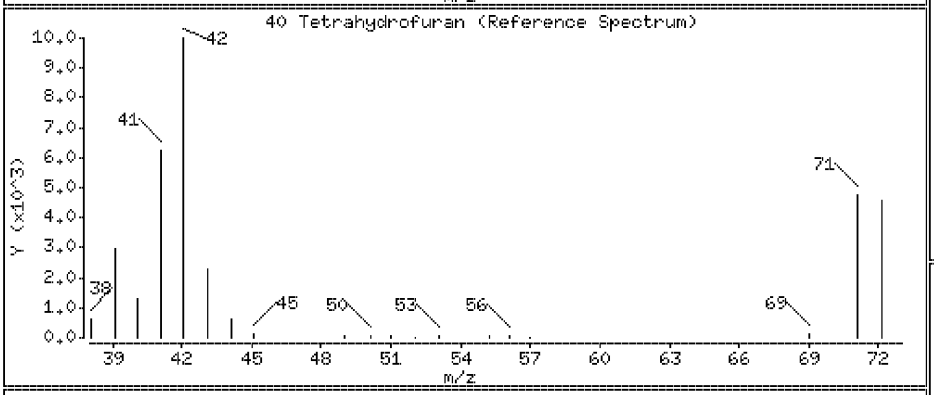
Column diameter: 0.32

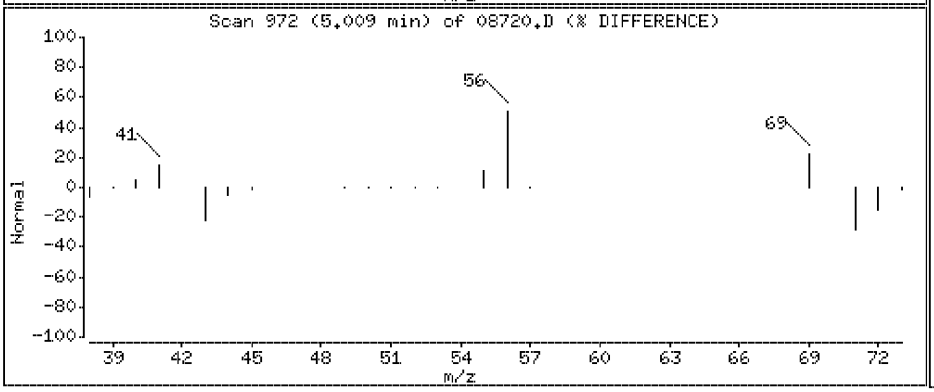
40 Tetrahydrofuran

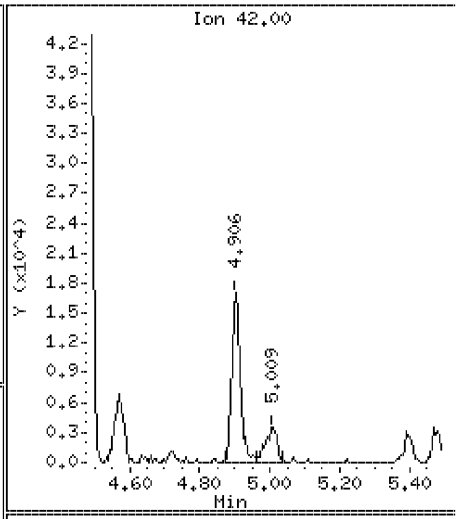
Concentration: 0.232 ppbv

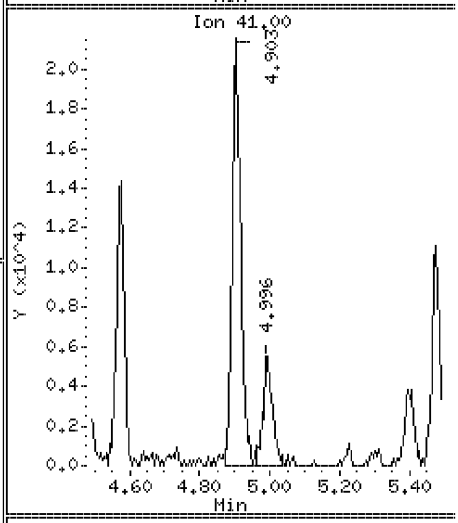


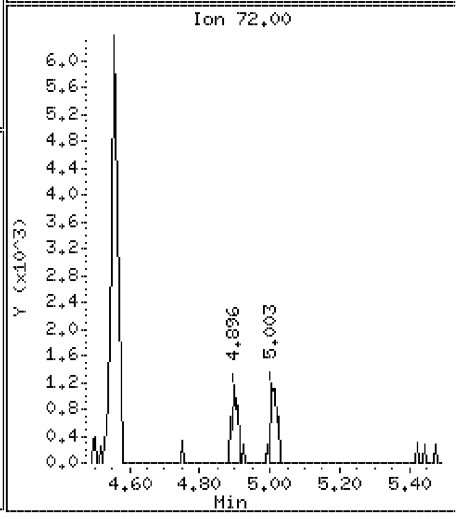












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

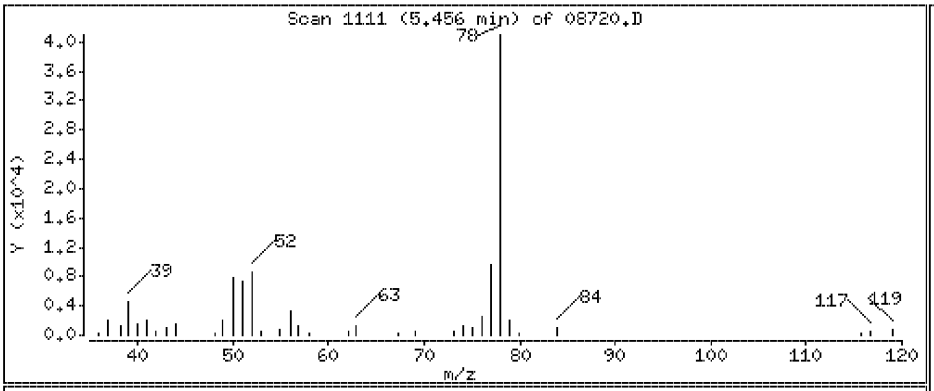
Operator: NCK

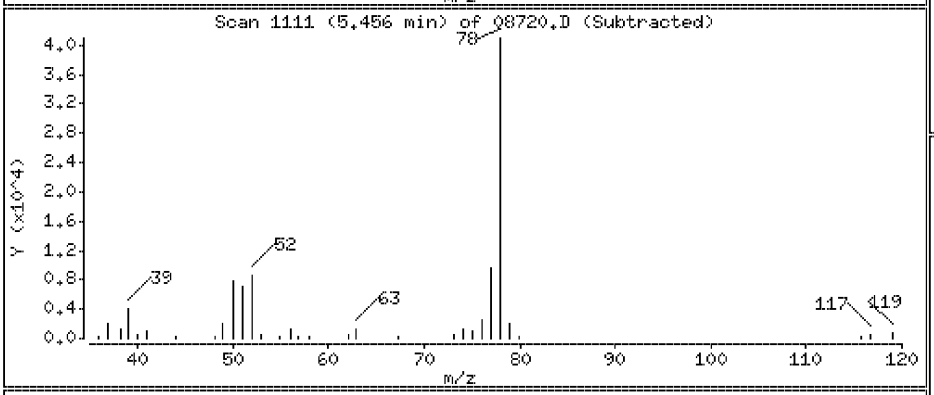
Column phase: J&W DB-5

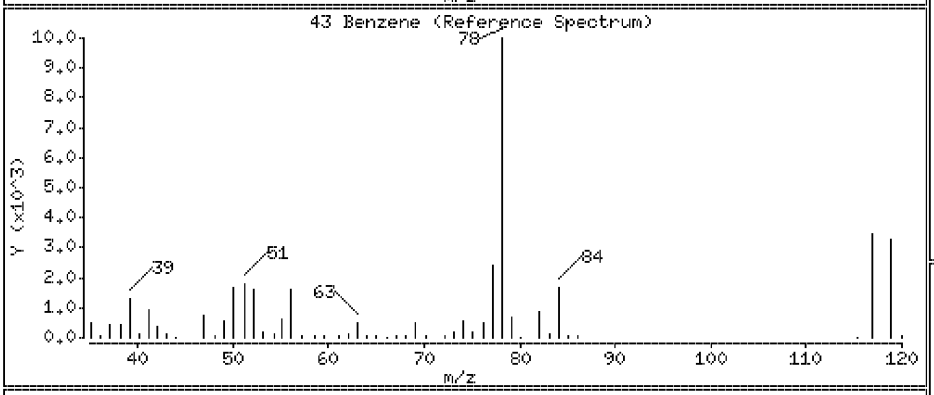
Column diameter: 0.32

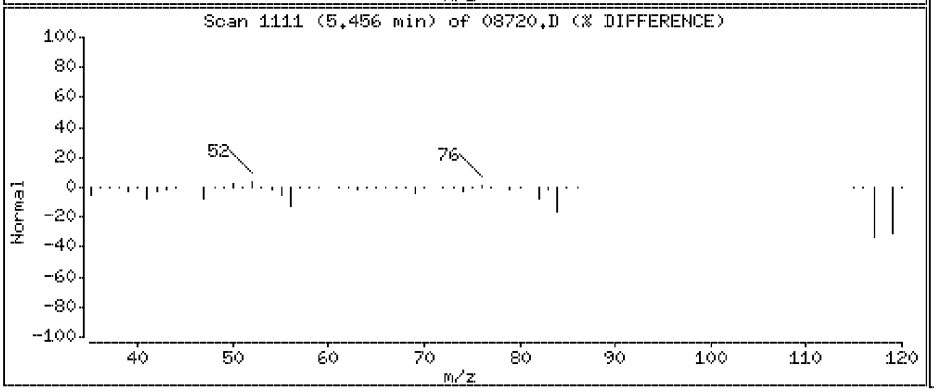
43 Benzene

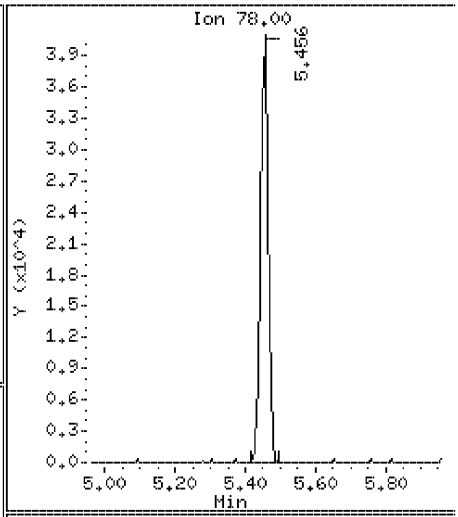
Concentration: 0.742 ppbv

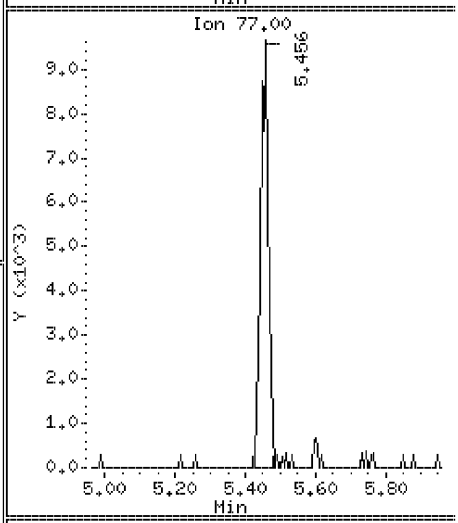


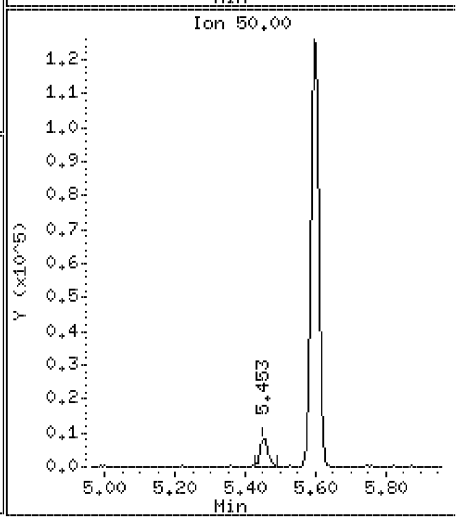












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

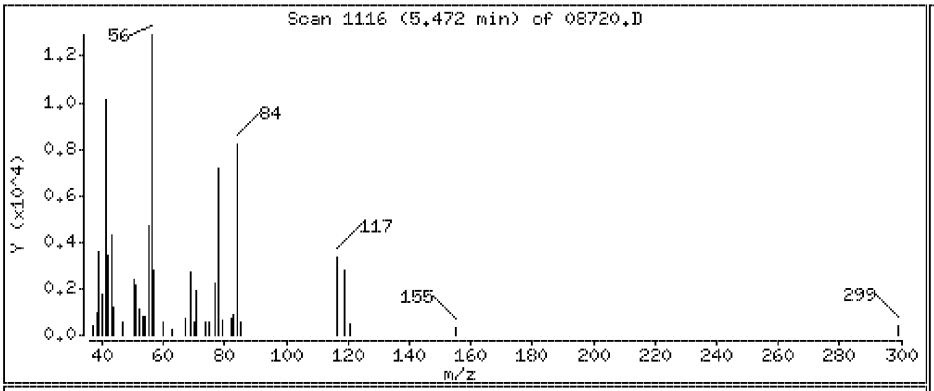
Operator: NCK

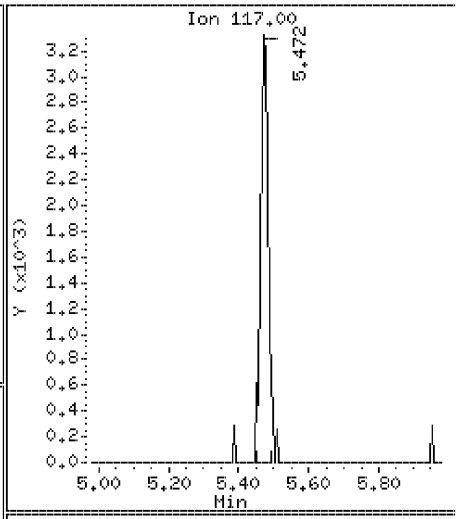
Column phase: J&W DB-5

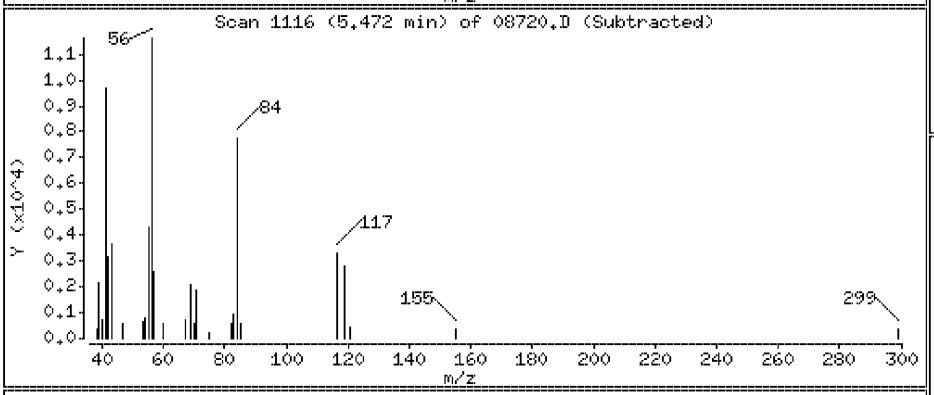
Column diameter: 0.32

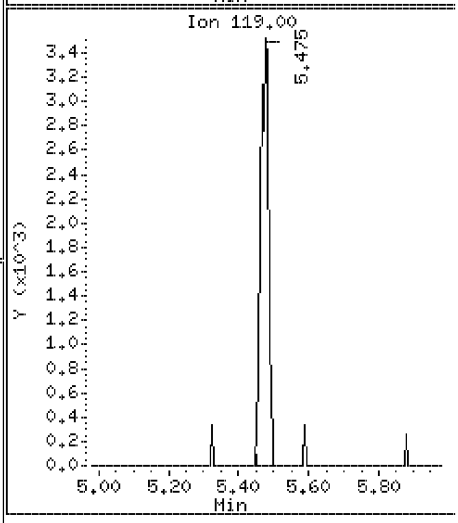
44 Carbon tetrachloride

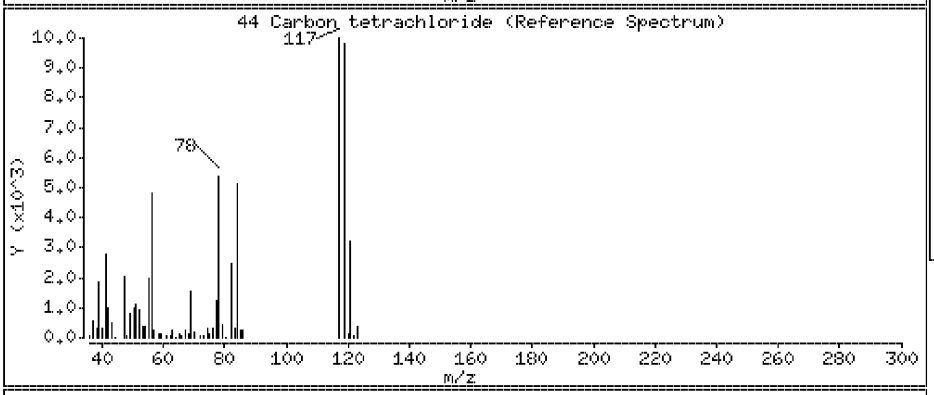
Concentration: 0.0825 ppbv

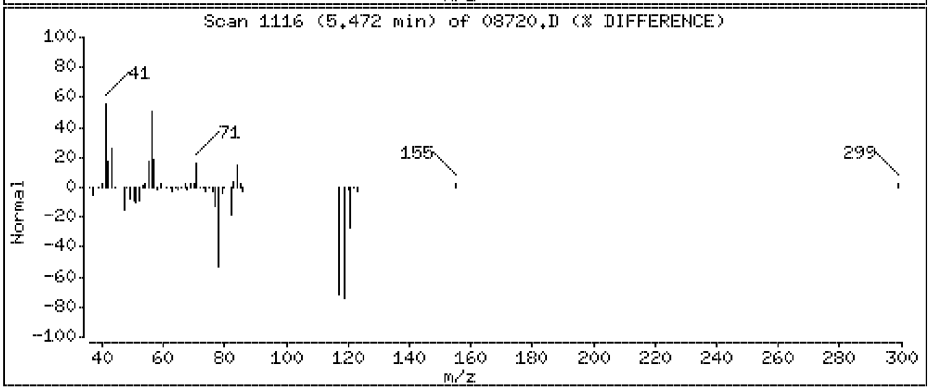












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

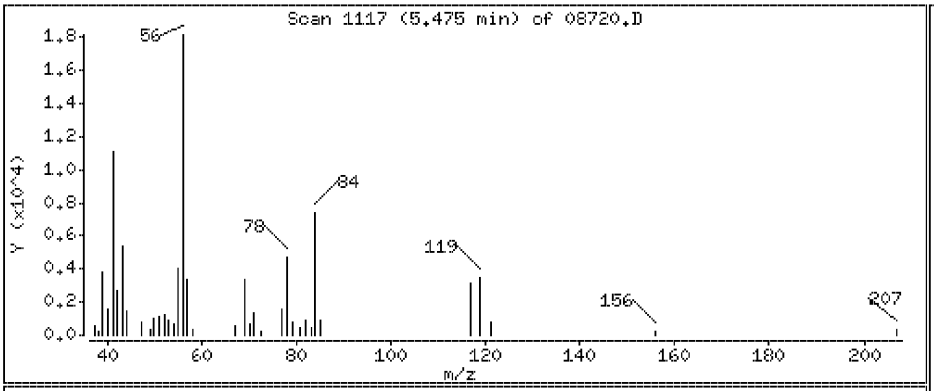
Operator: NCK

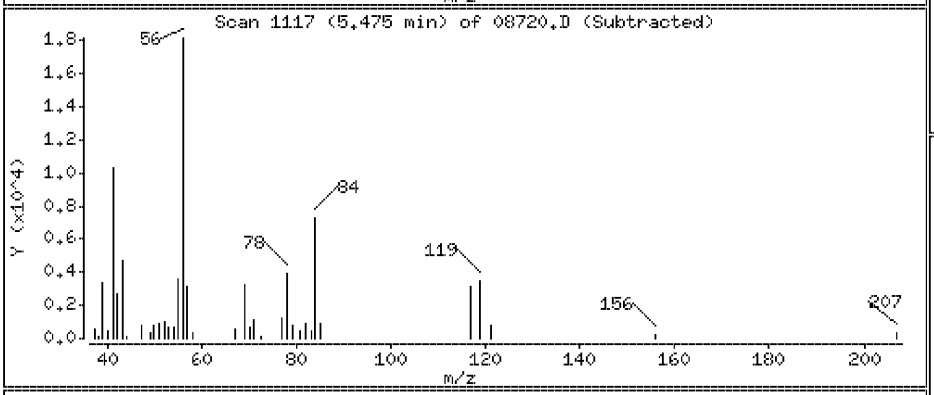
Column phase: J&W DB-5

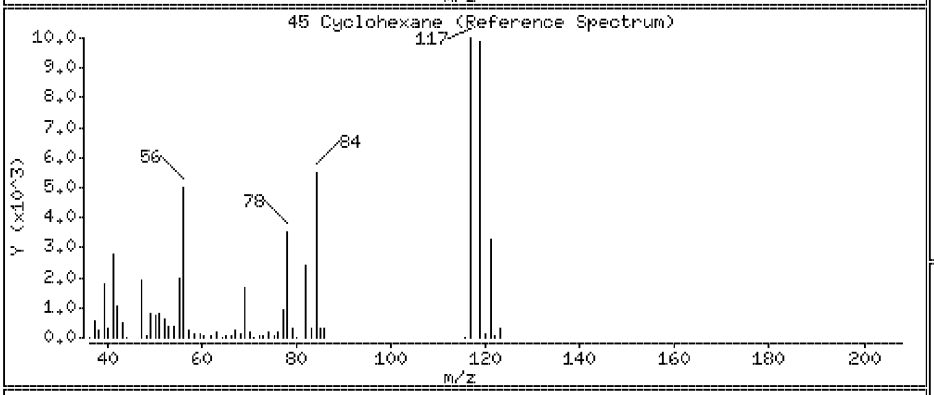
Column diameter: 0.32

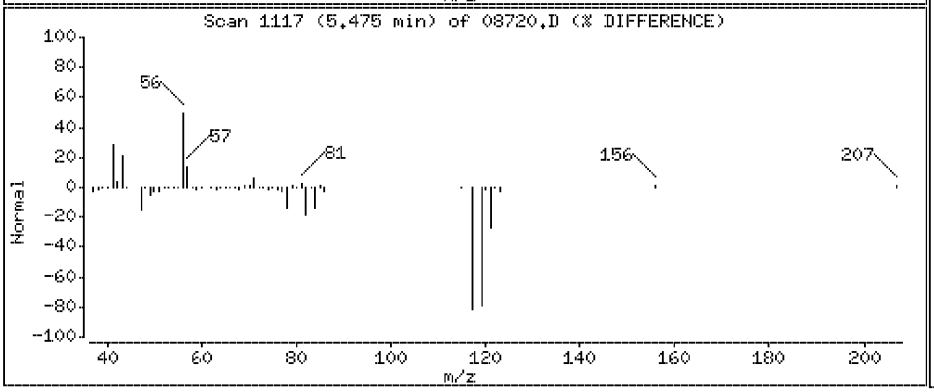
45 Cyclohexane

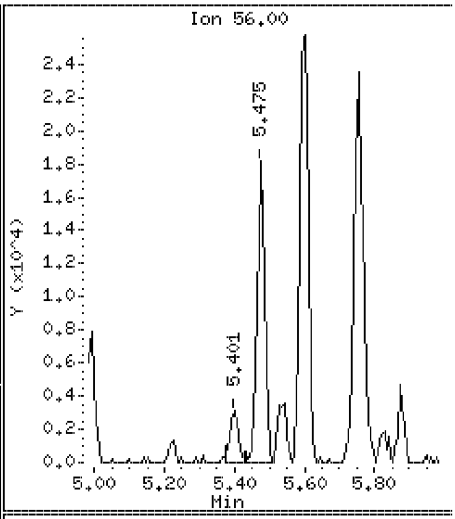
Concentration: 0.566 ppbv

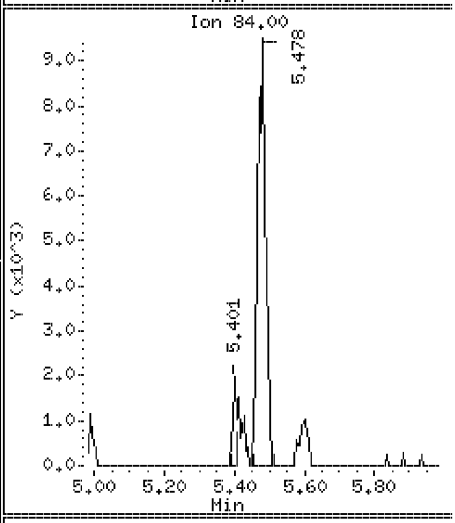


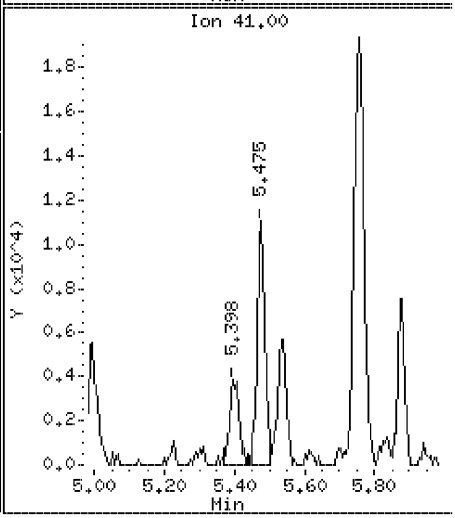












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

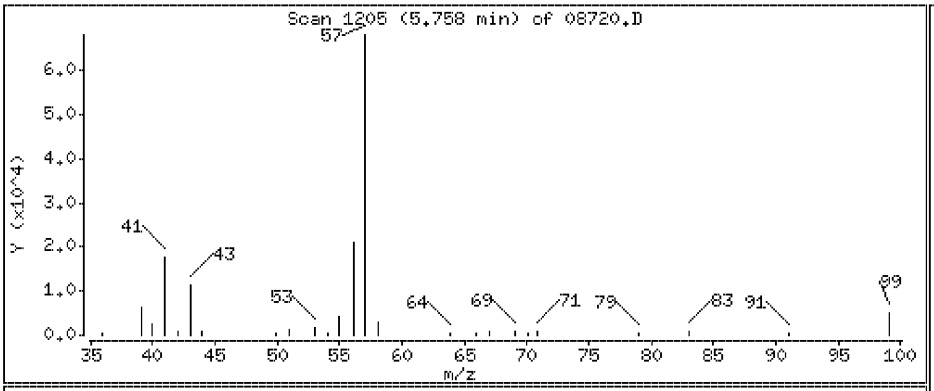
Operator: NCK

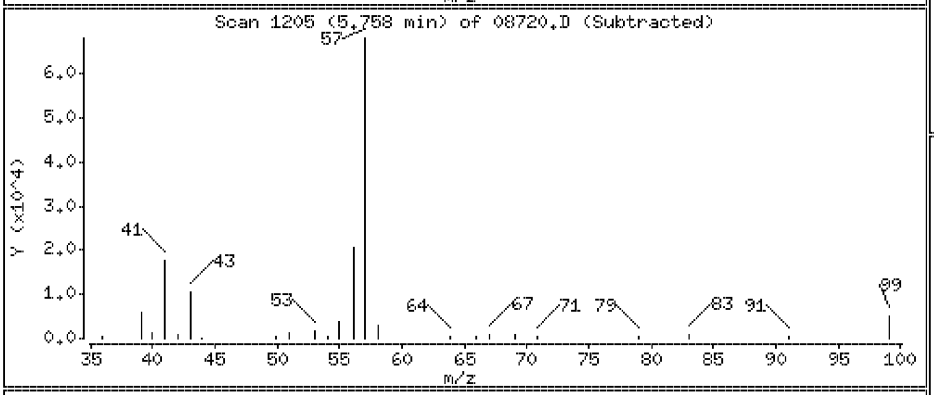
Column phase: J&W DB-5

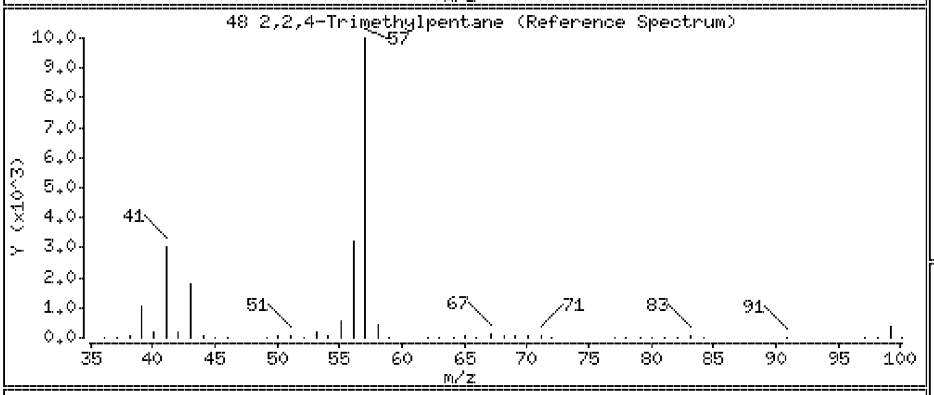
Column diameter: 0.32

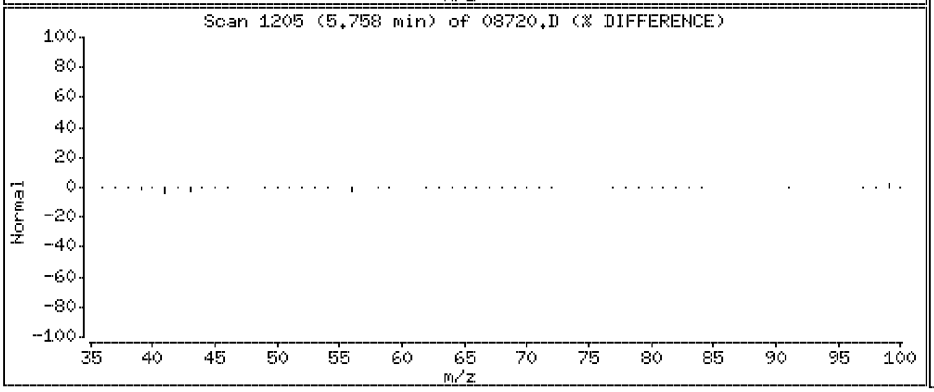
48 2,2,4-Trimethylpentane

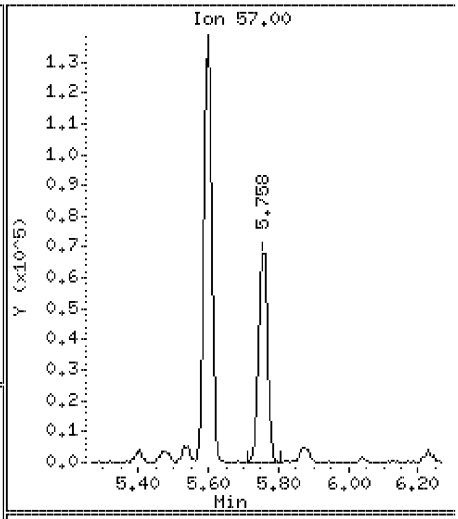
Concentration: 0.875 ppbv

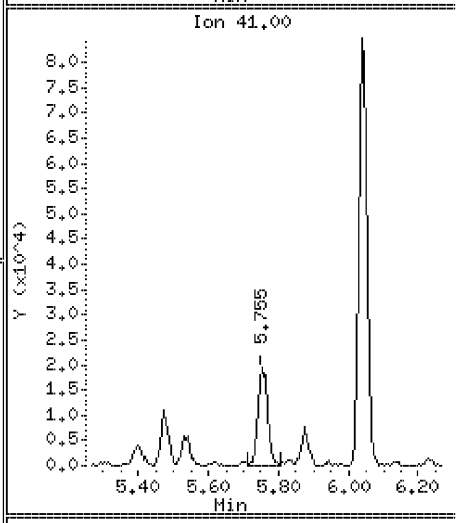


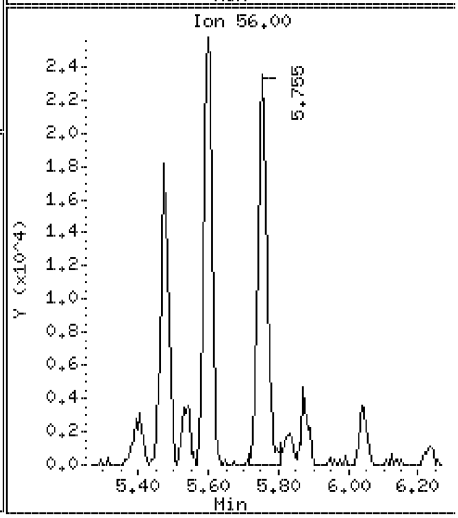












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

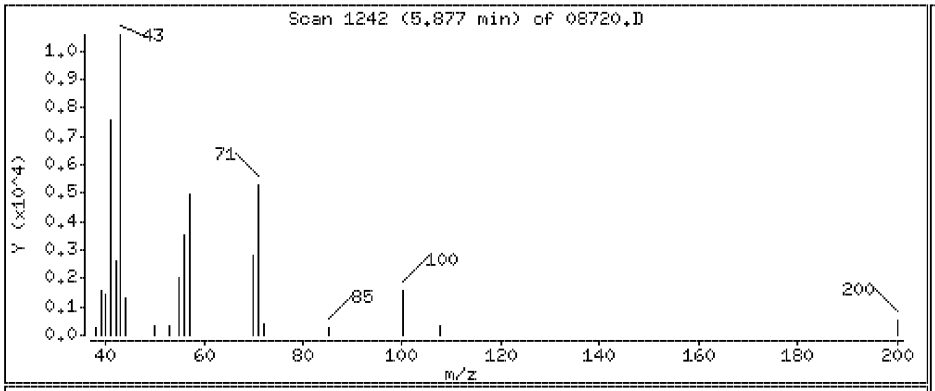
Operator: NCK

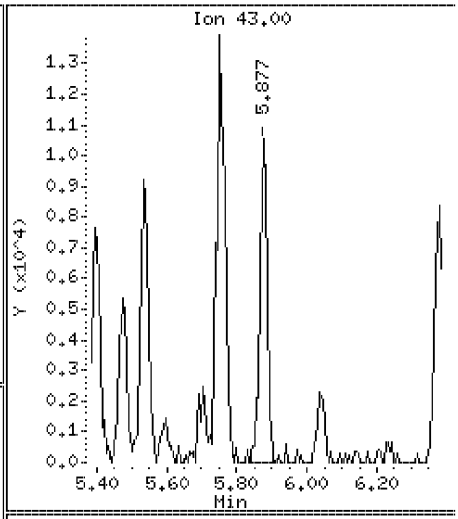
Column phase: J&W DB-5

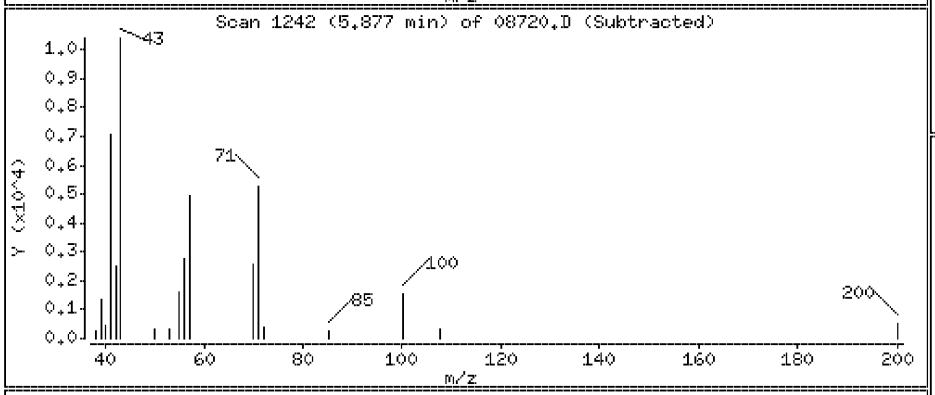
Column diameter: 0.32

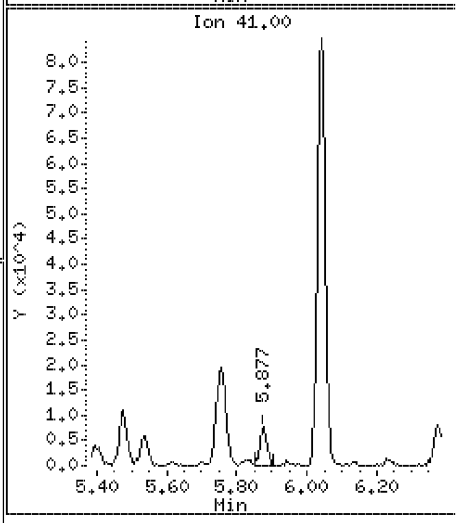
49 Heptane

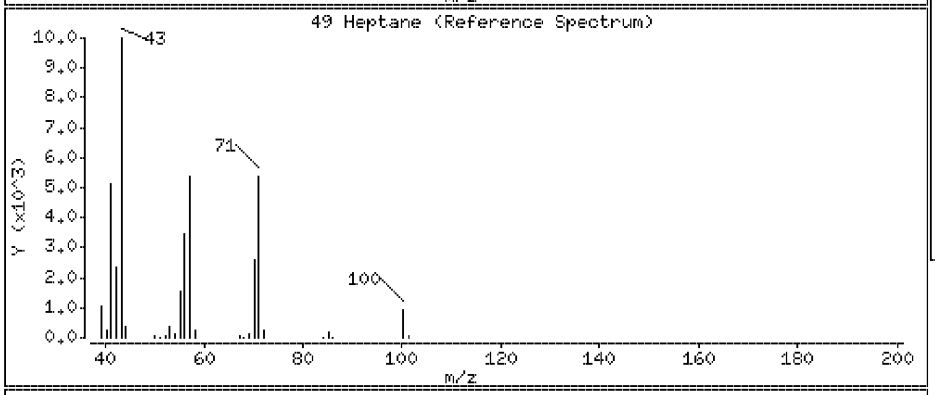
Concentration: 0.291 ppbv

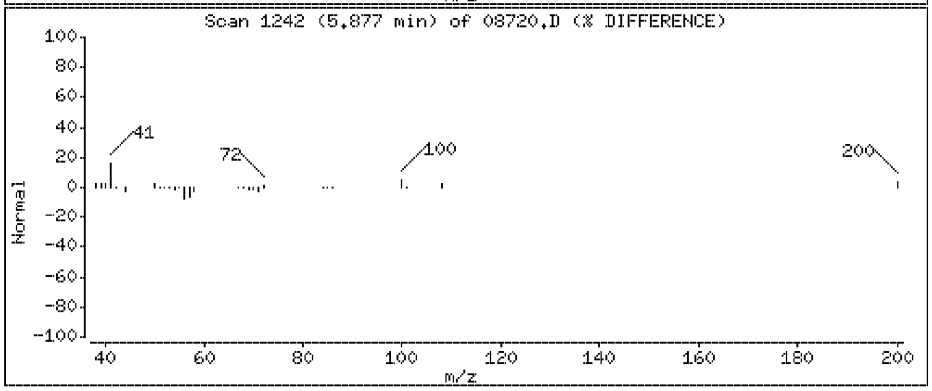












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

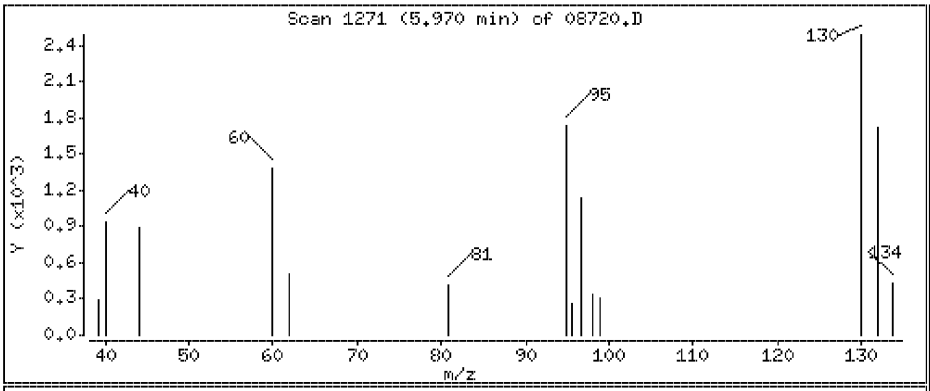
Operator: NCK

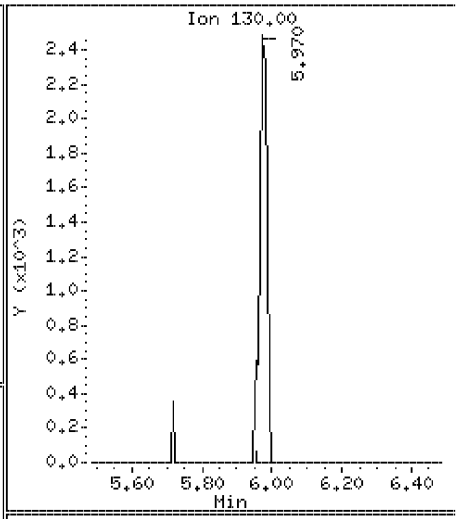
Column phase: J&W DB-5

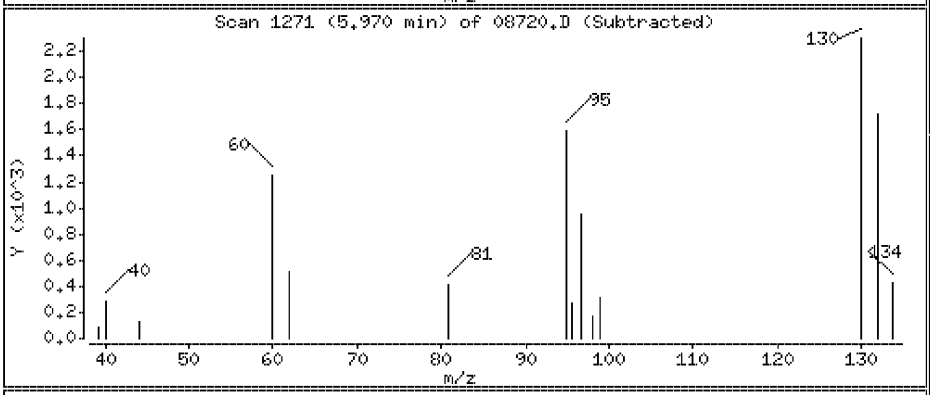
Column diameter: 0.32

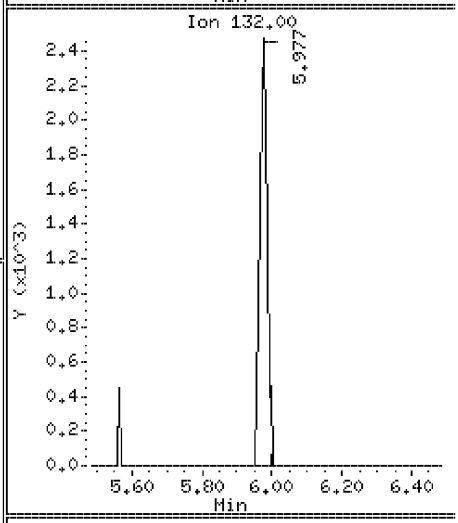
51 Trichloroethene

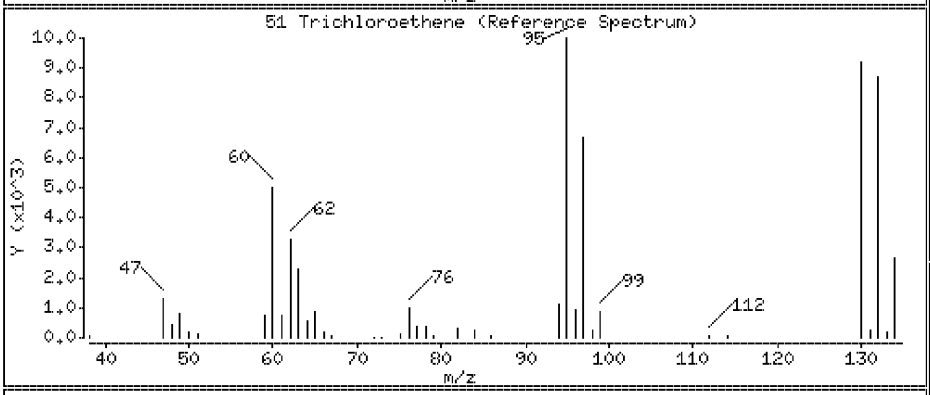
Concentration: 0.0807 ppbv

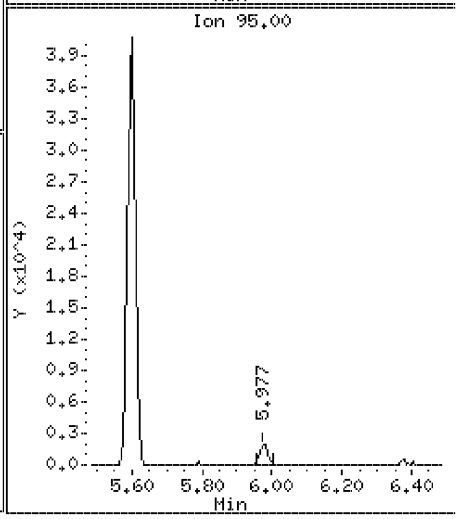


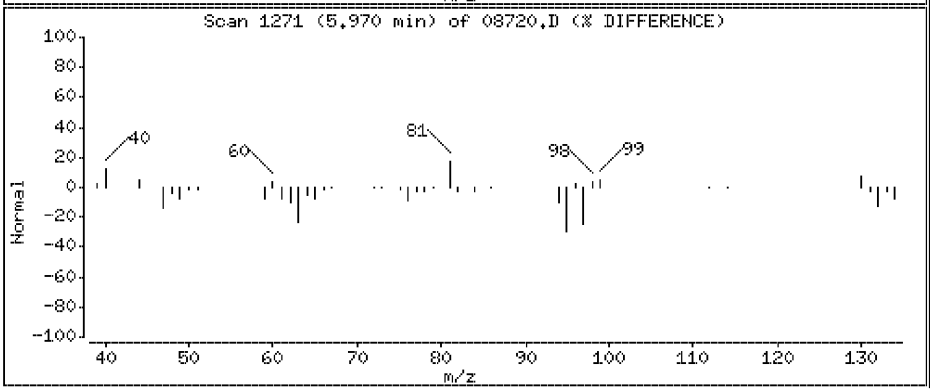












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

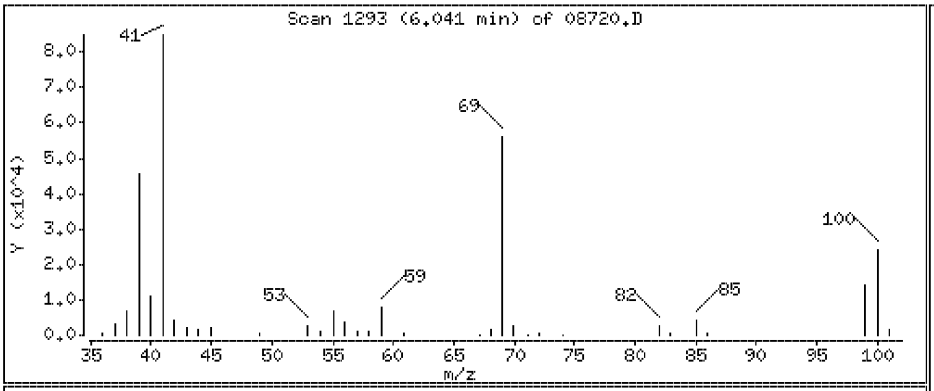
Operator: NCK

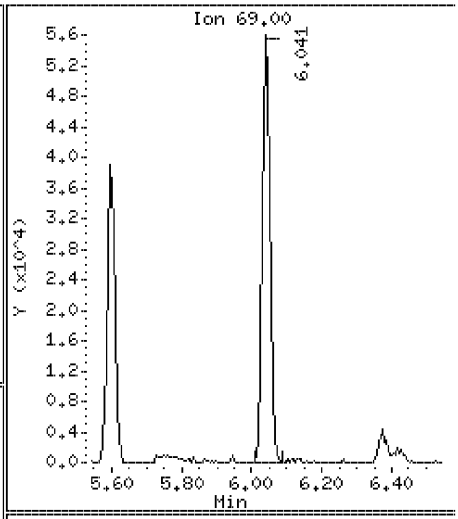
Column phase: J&W DB-5

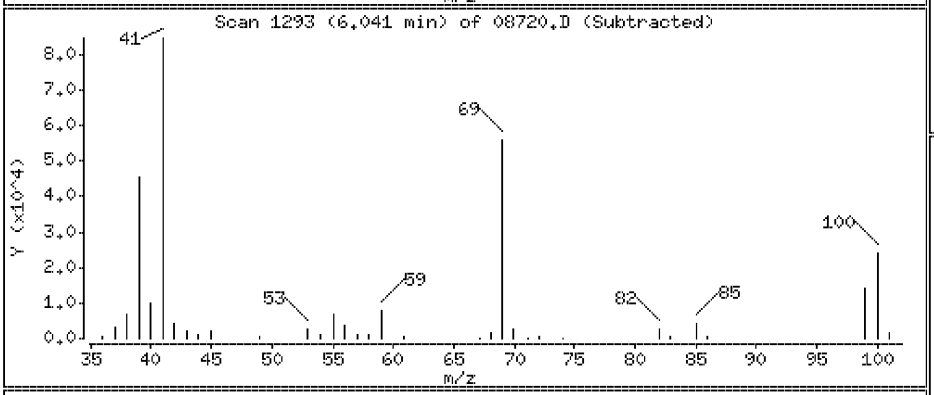
Column diameter: 0.32

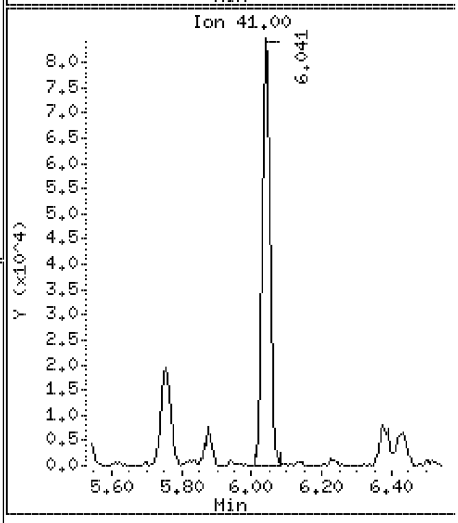
52 Methyl methacrylate

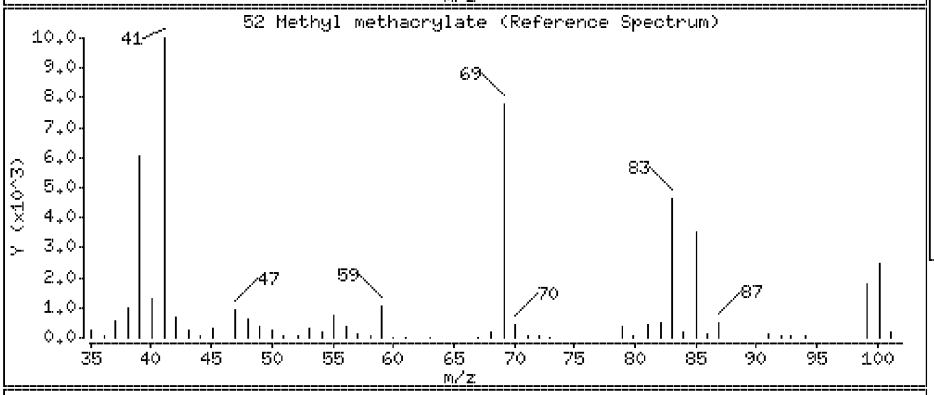
Concentration: 2.88 ppbv

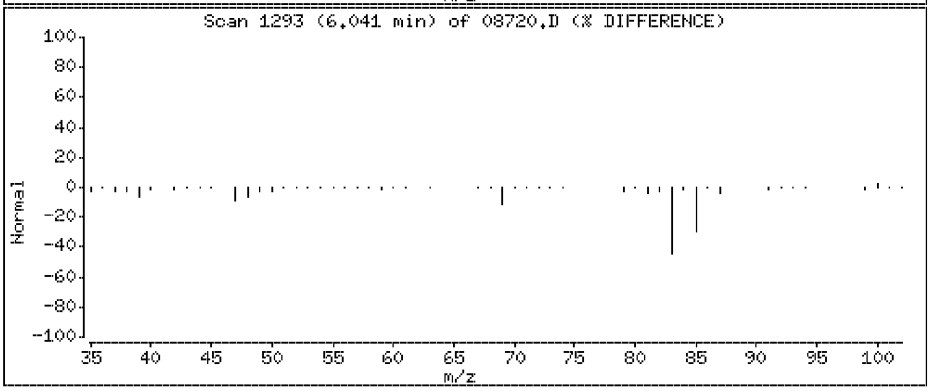












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

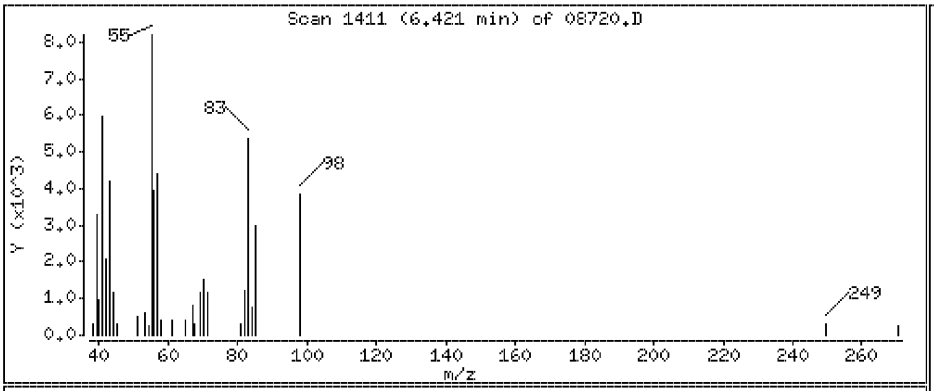
Operator: NCK

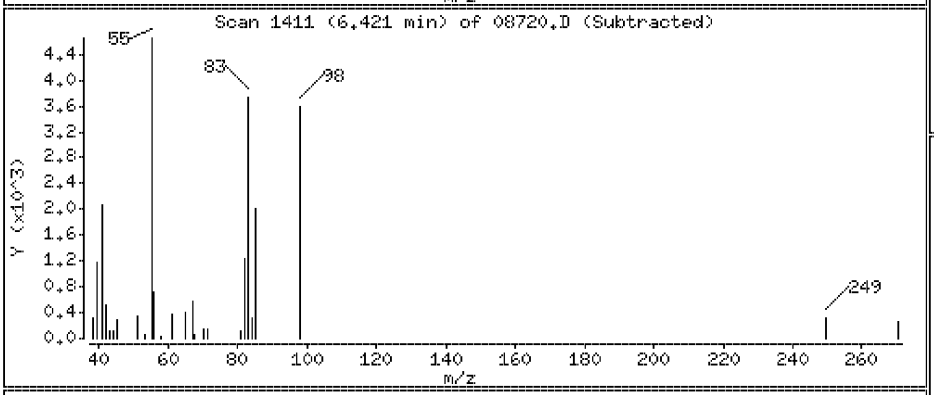
Column phase: J&W DB-5

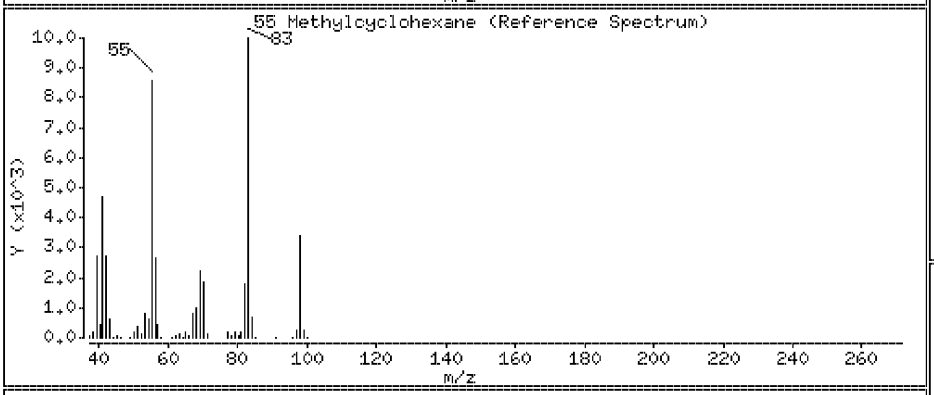
Column diameter: 0.32

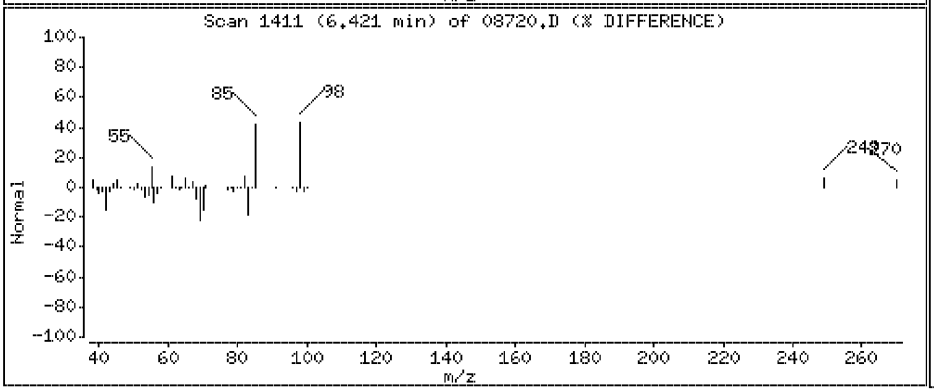
55 Methylcyclohexane

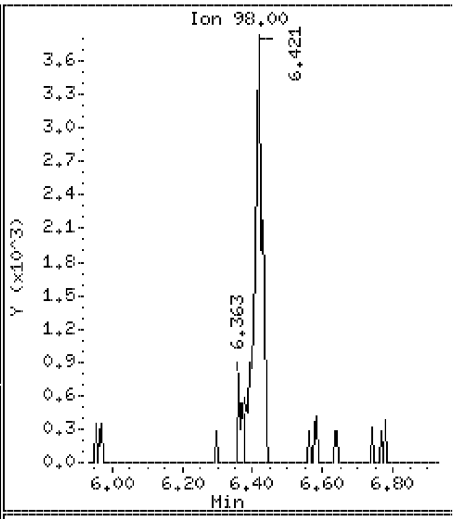
Concentration: 0.238 ppbv

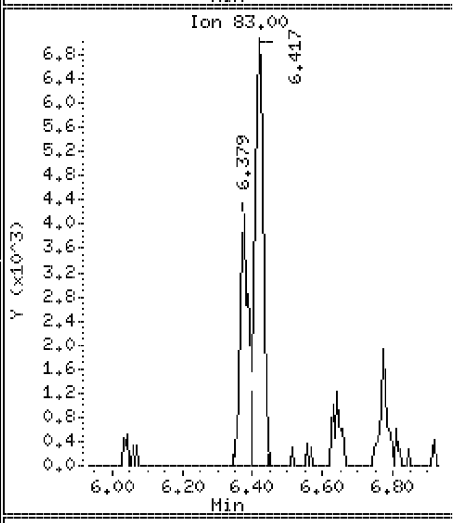


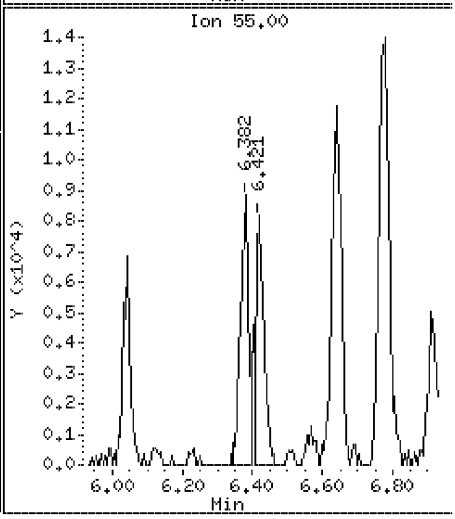












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

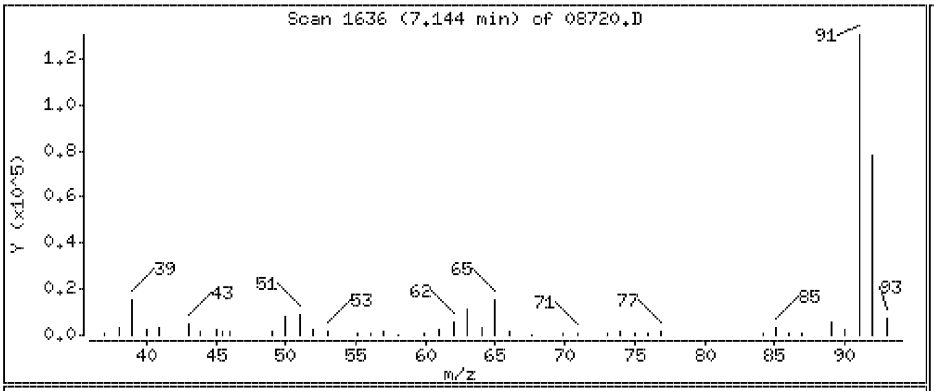
Operator: NCK

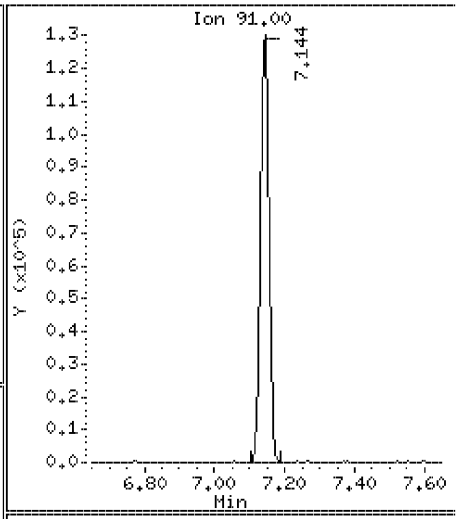
Column phase: J&W DB-5

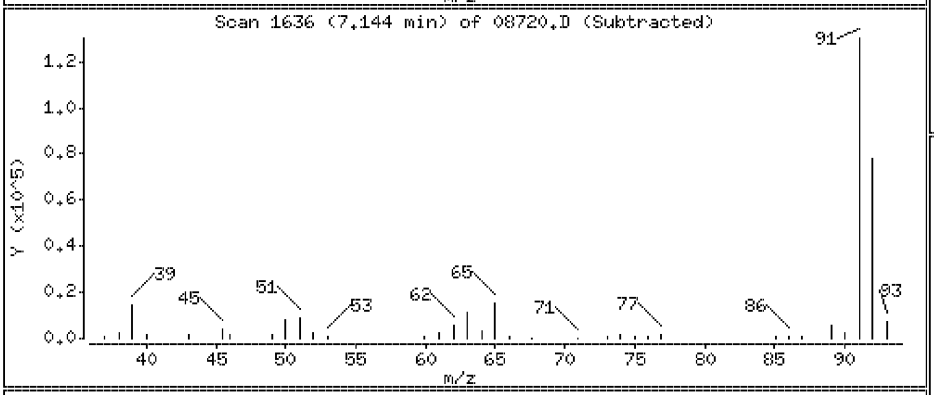
Column diameter: 0.32

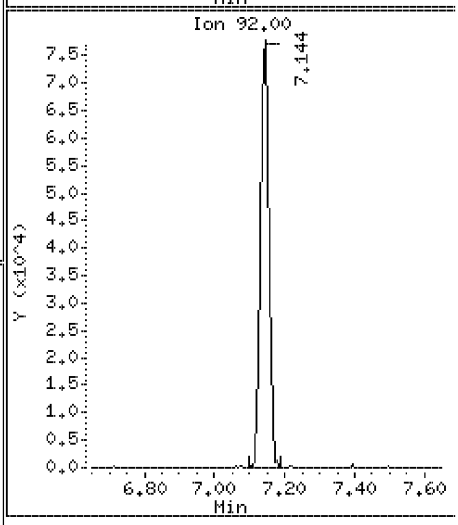
61 Toluene

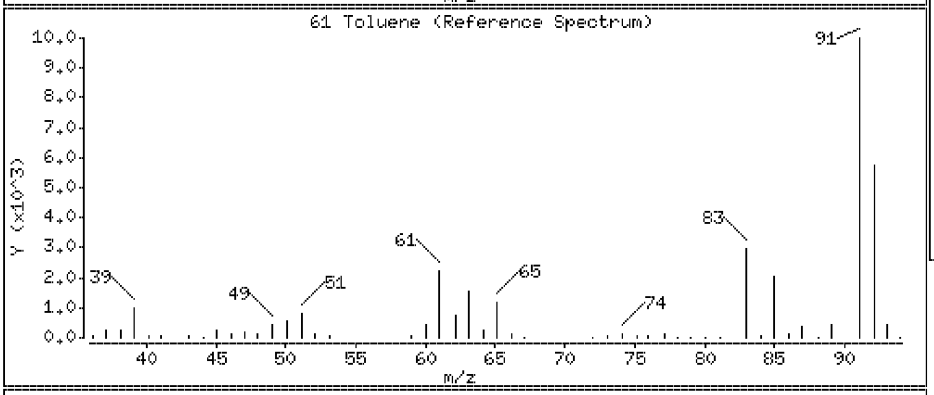
Concentration: 2.16 ppbv

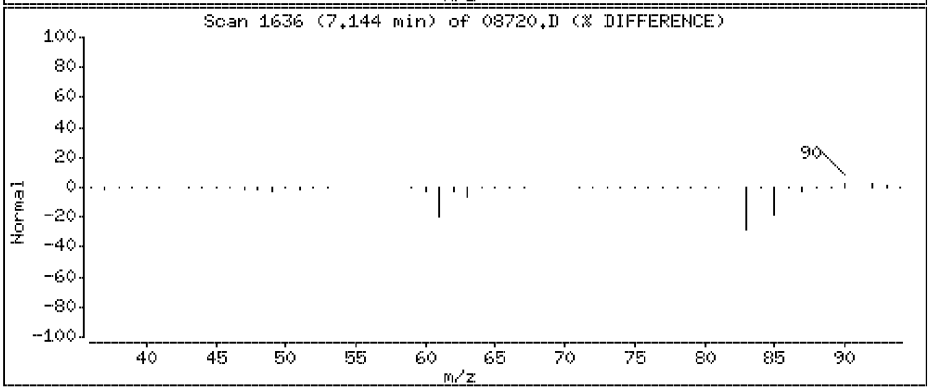












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

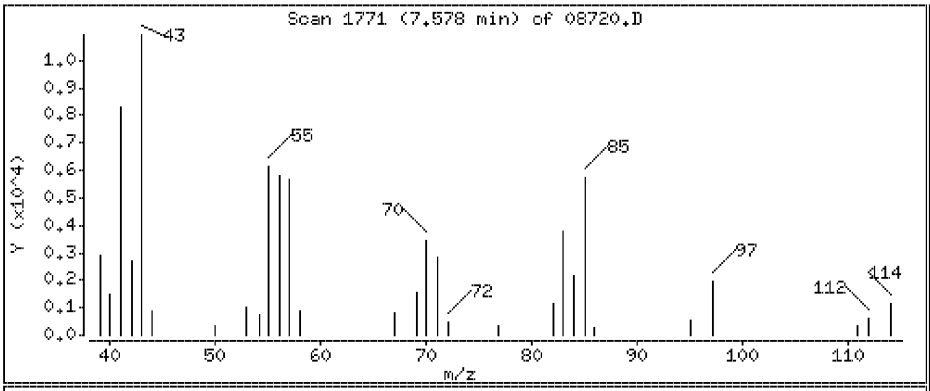
Operator: NCK

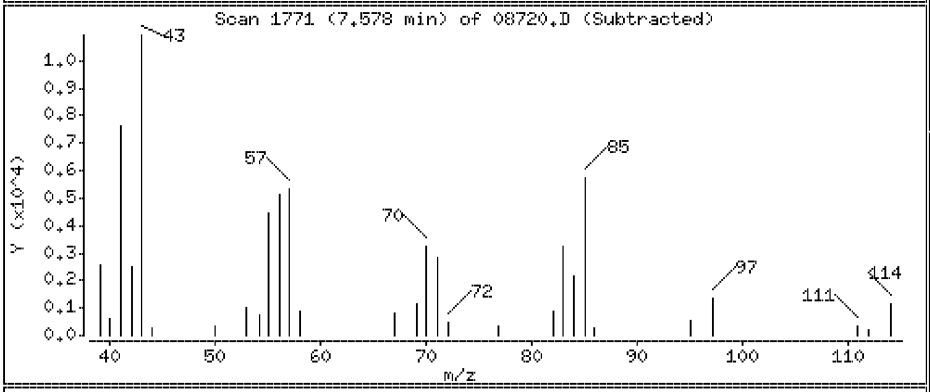
Column phase: J&W DB-5

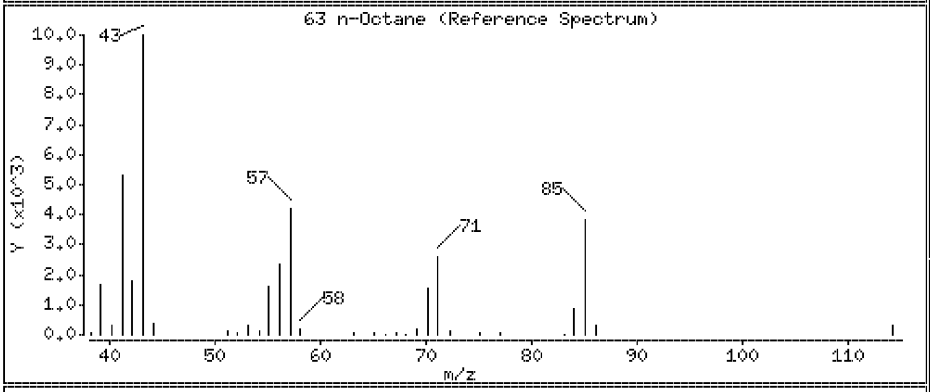
Column diameter: 0.32

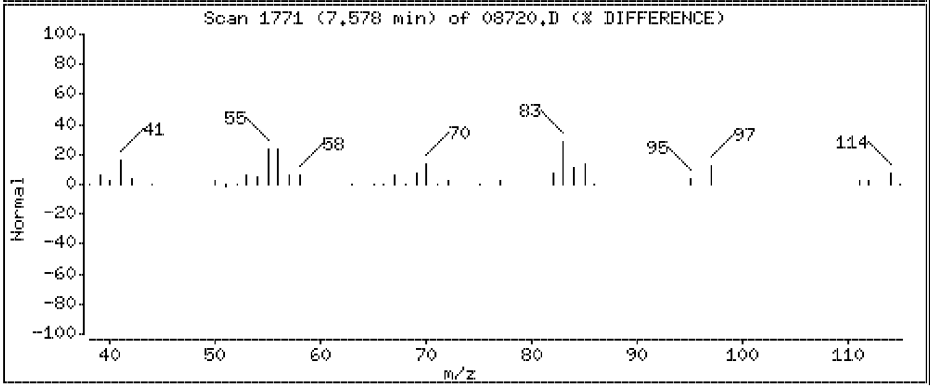
63 n-Octane

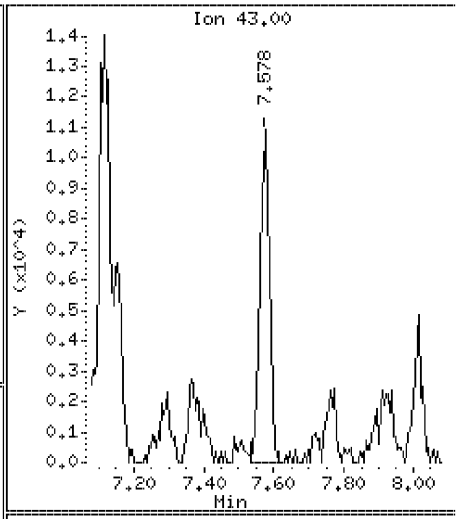
Concentration: 0.304 ppbv

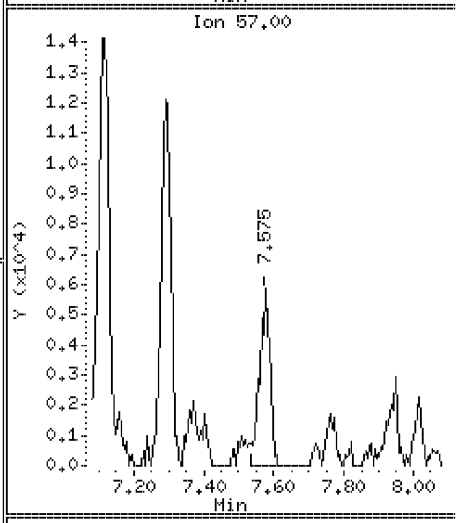


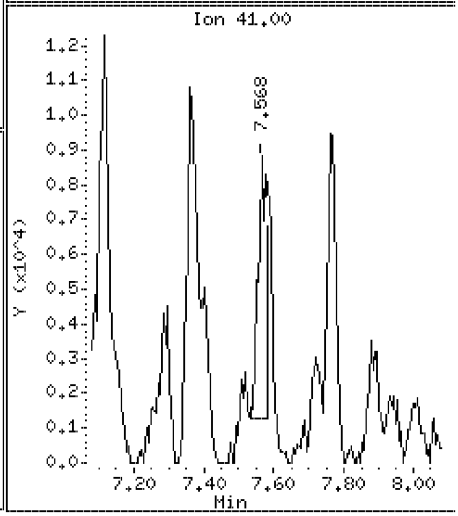












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

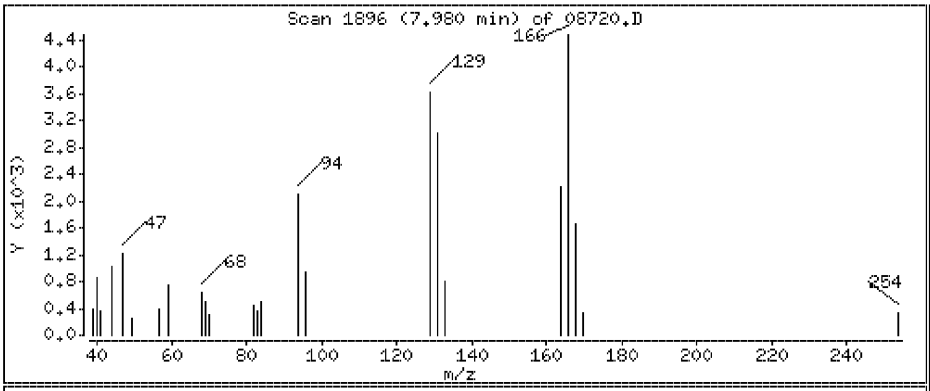
Operator: NCK

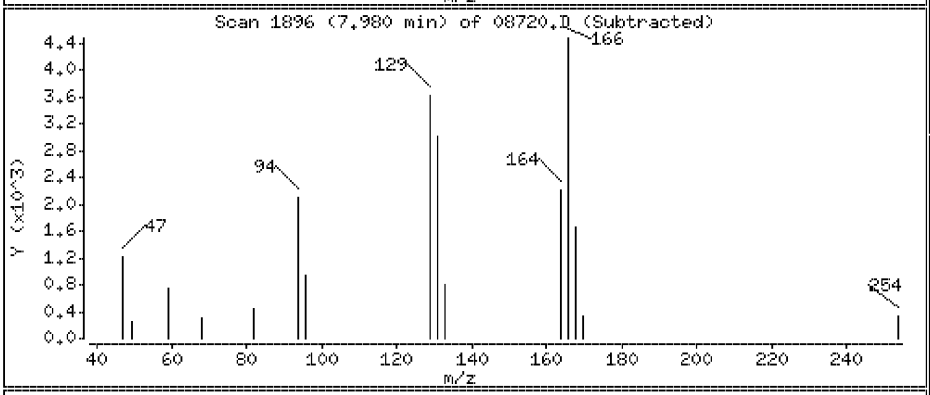
Column phase: J&W DB-5

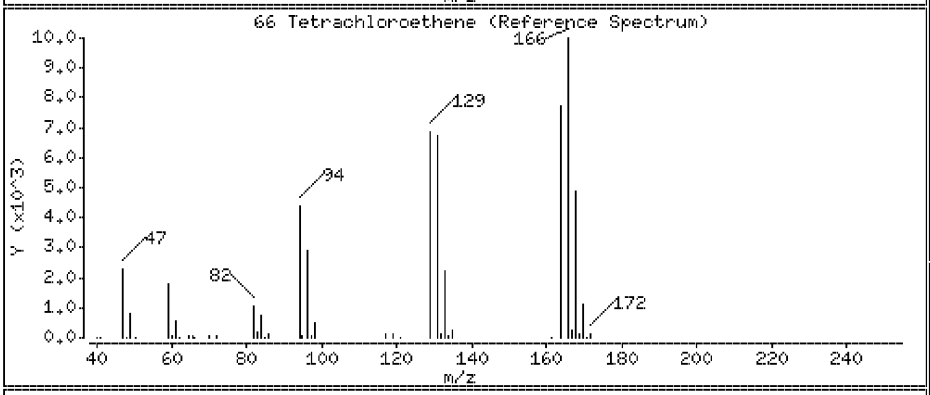
Column diameter: 0.32

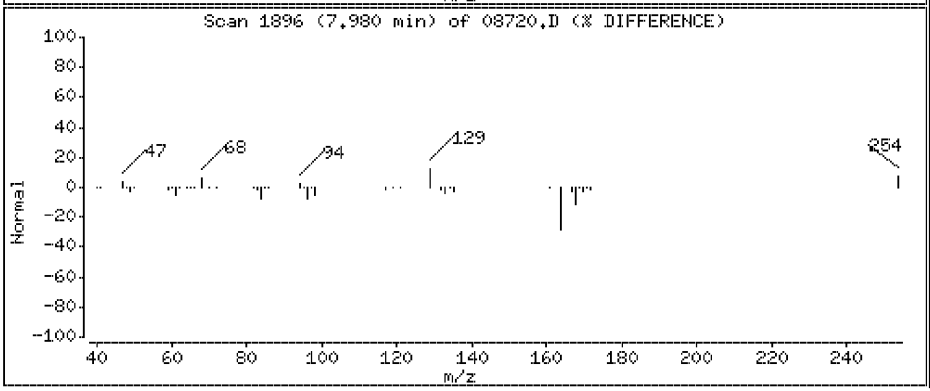
66 Tetrachloroethene

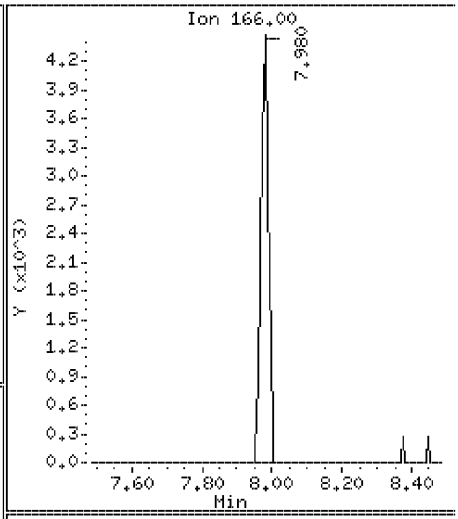
Concentration: 0.113 ppbv

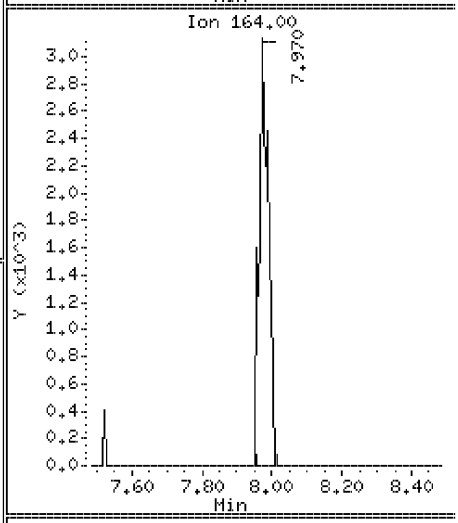


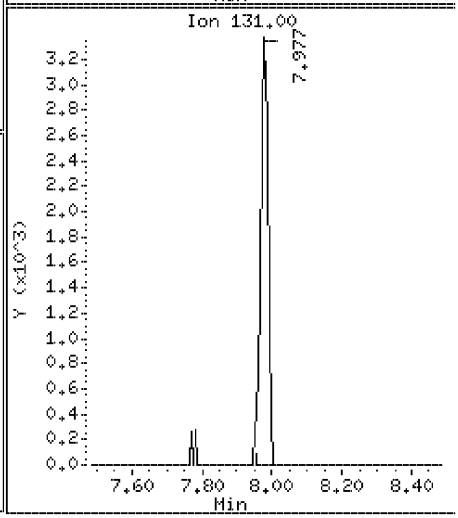












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

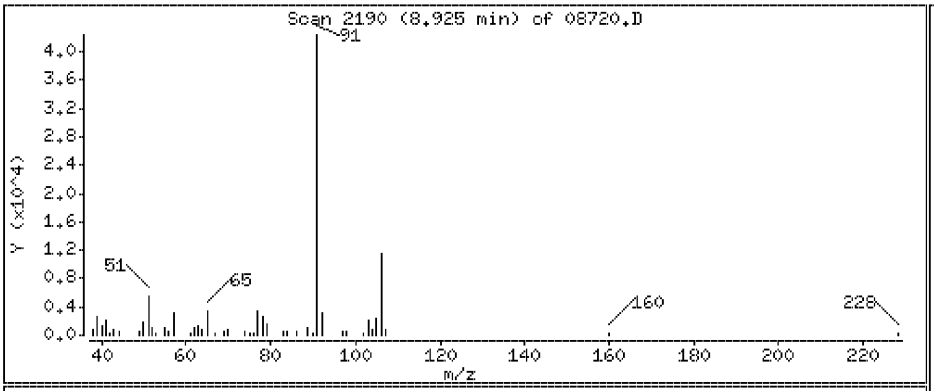
Operator: NCK

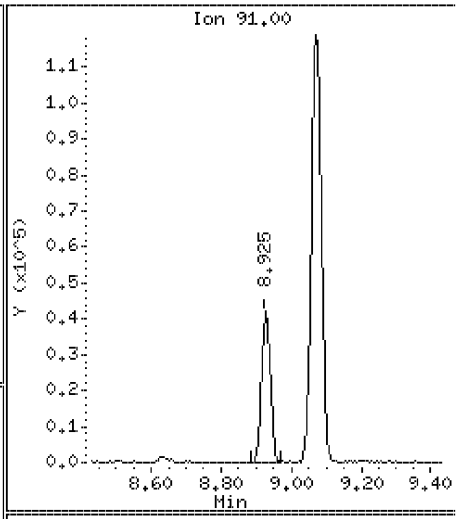
Column phase: J&W DB-5

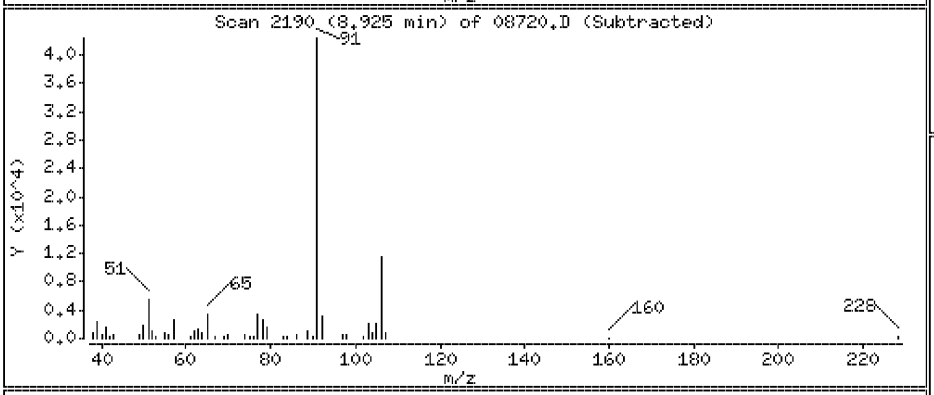
Column diameter: 0.32

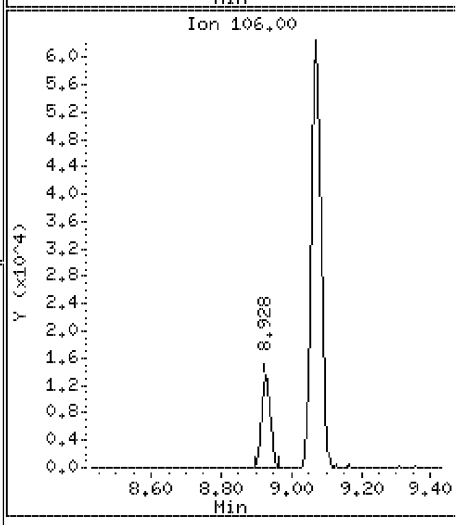
69 Ethyl Benzene

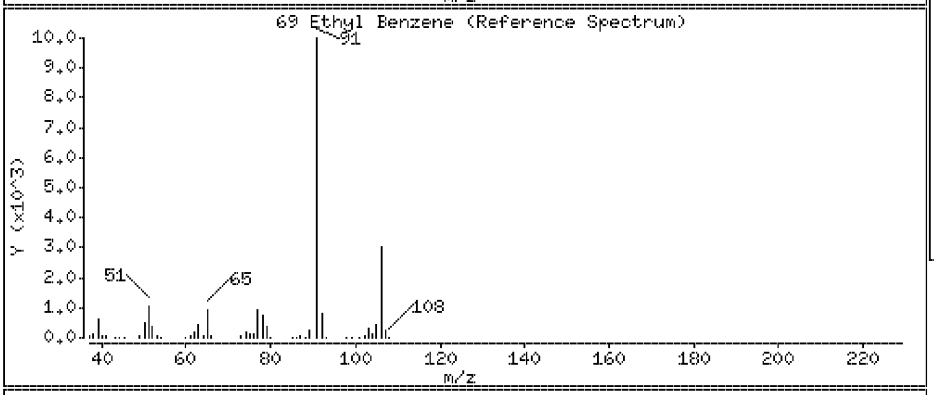
Concentration: 0.560 ppbv

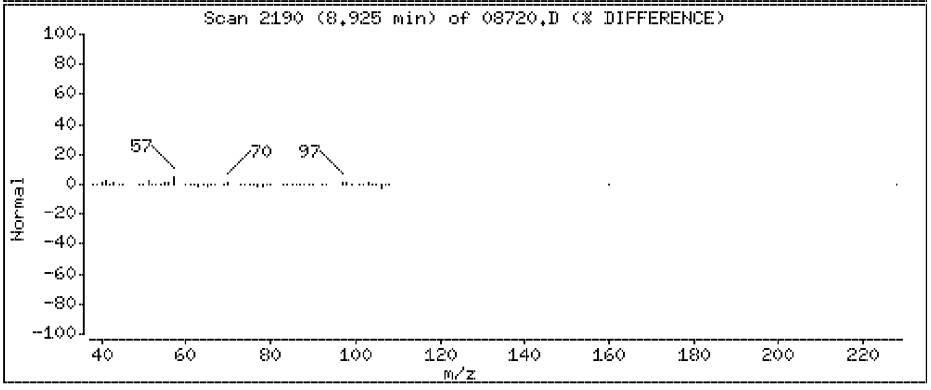












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

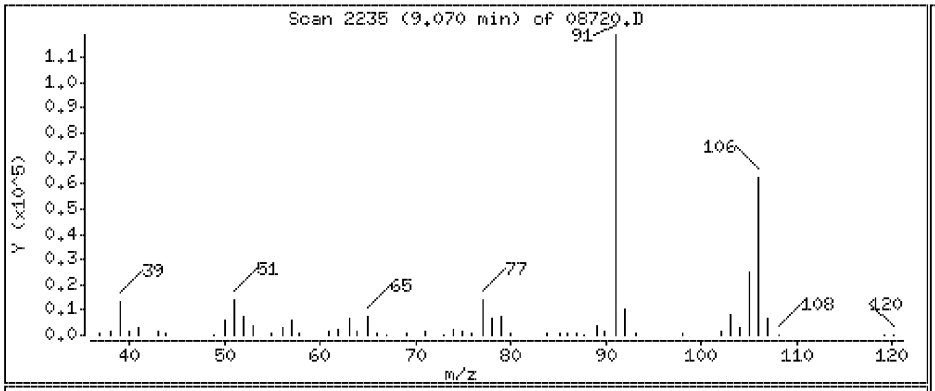
Operator: NCK

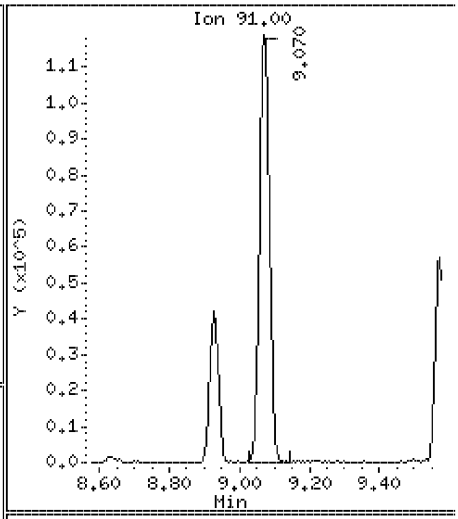
Column phase: J&W DB-5

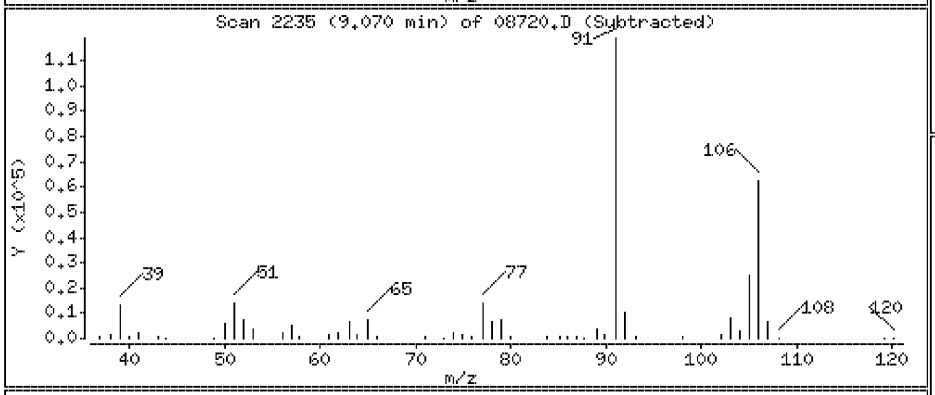
Column diameter: 0.32

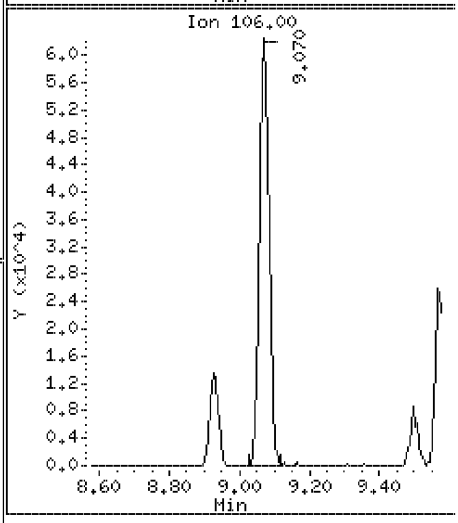
70 m&p-Xylene

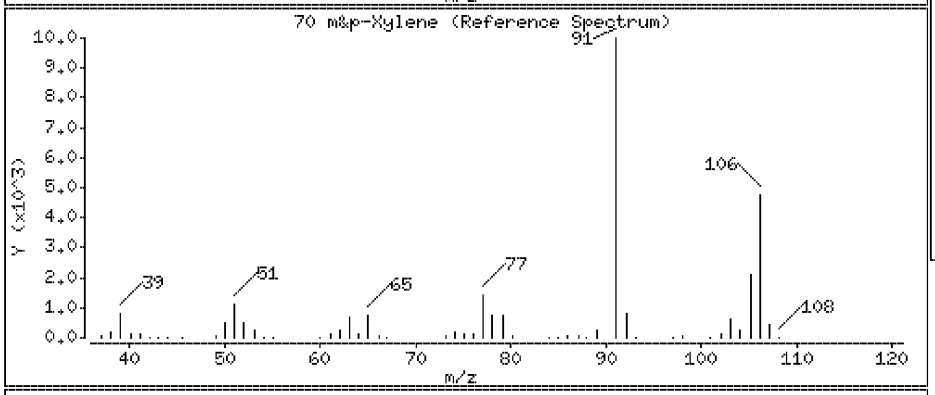
Concentration: 2.39 ppbv

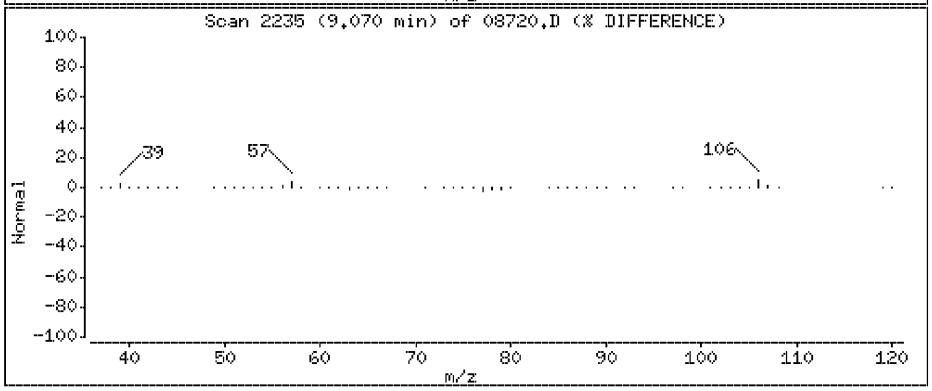












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

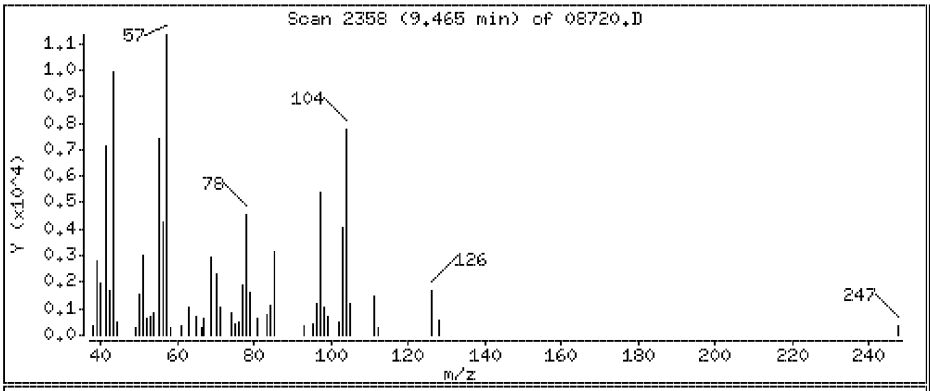
Operator: NCK

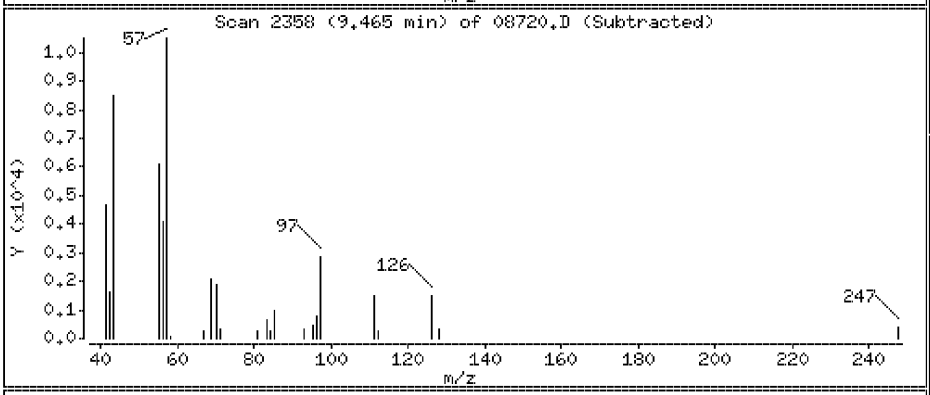
Column phase: J&W DB-5

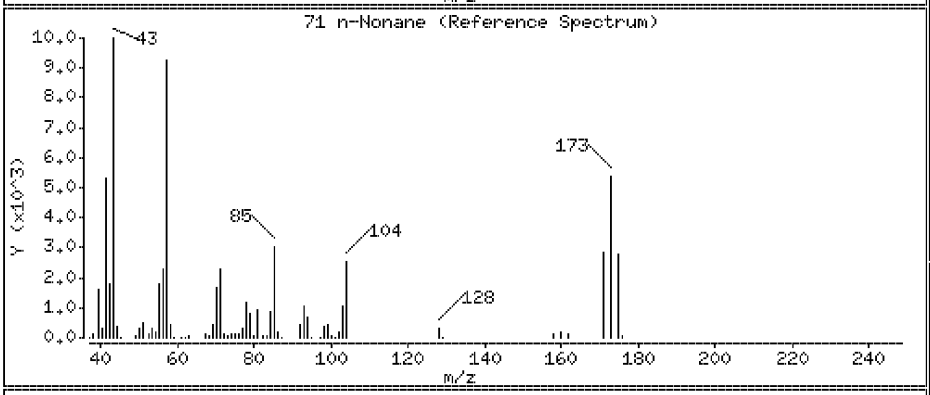
Column diameter: 0.32

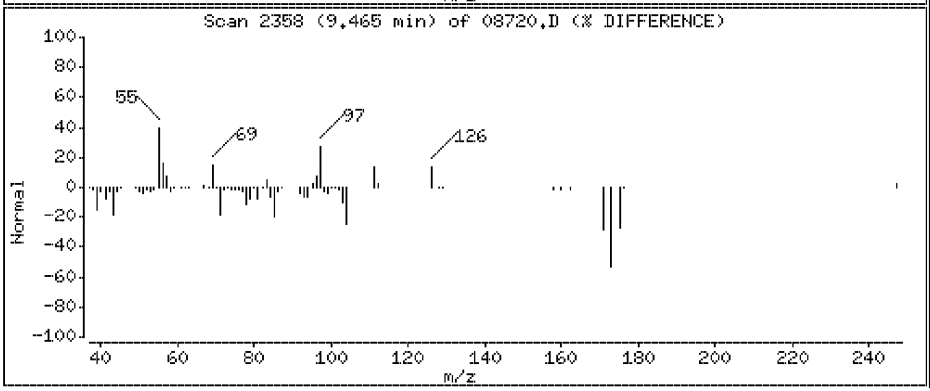
71 n-Nonane

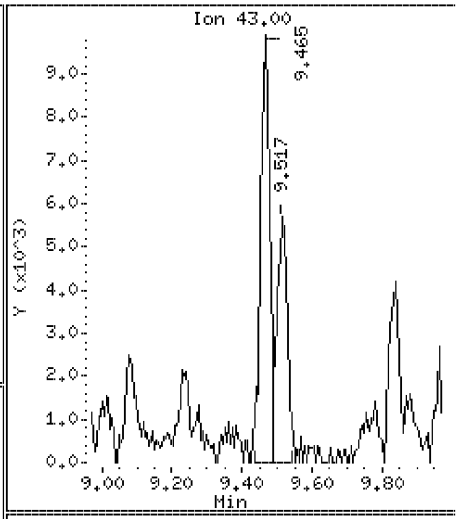
Concentration: 0.294 ppbv

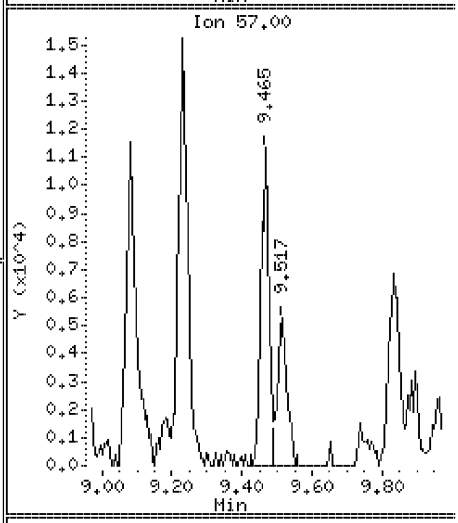


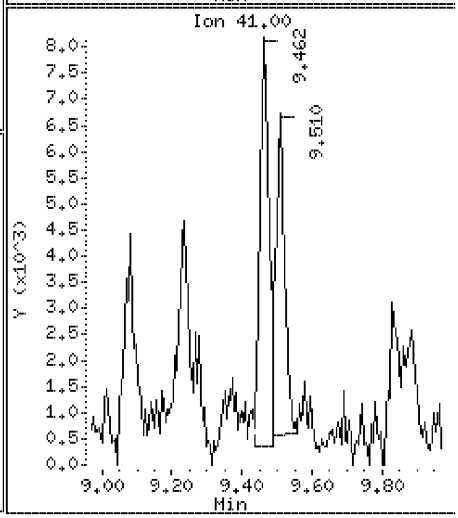












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

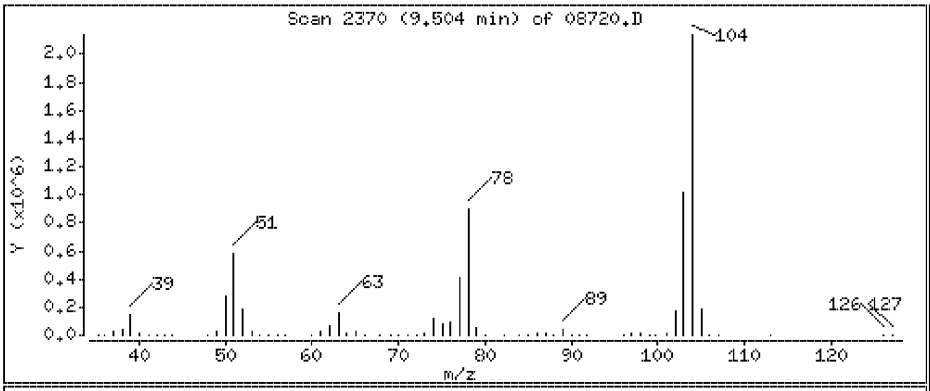
Operator: NCK

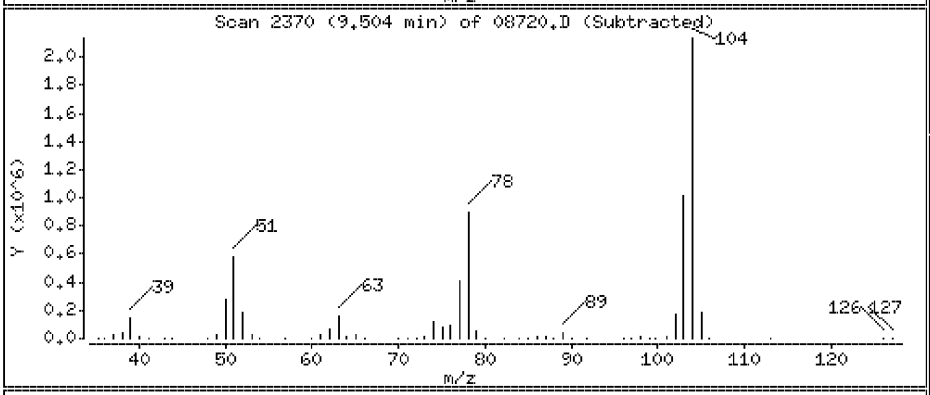
Column phase: J&W DB-5

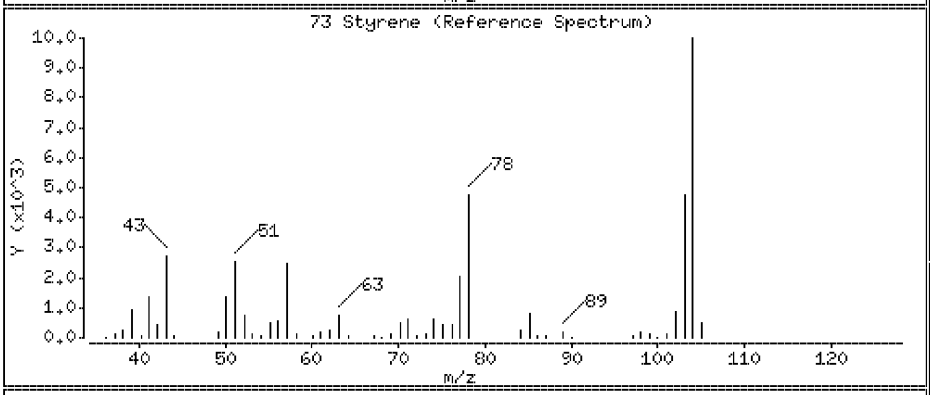
Column diameter: 0.32

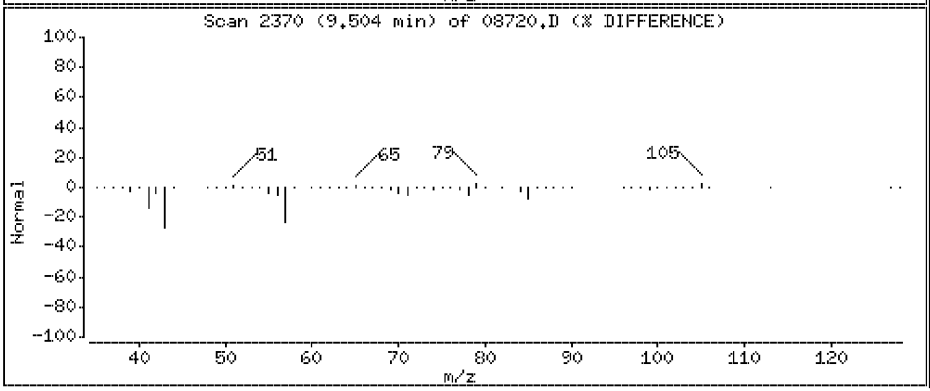
73 Styrene

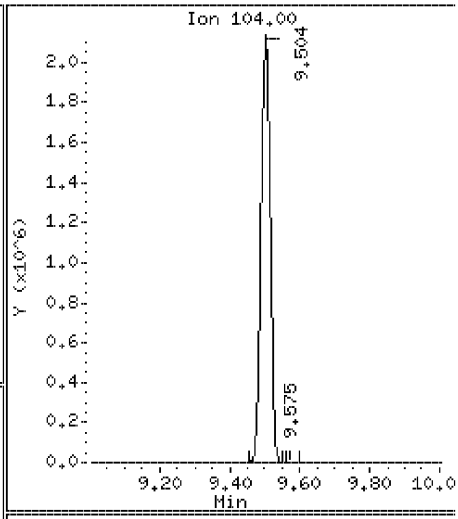
Concentration: 53.1 ppbv

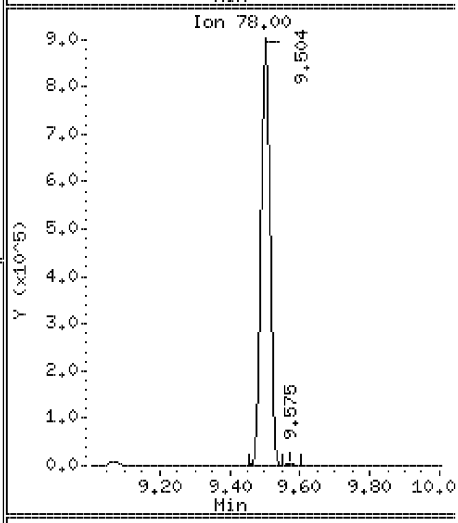


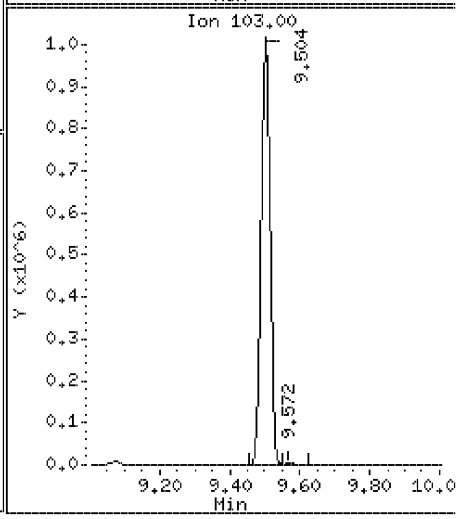












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

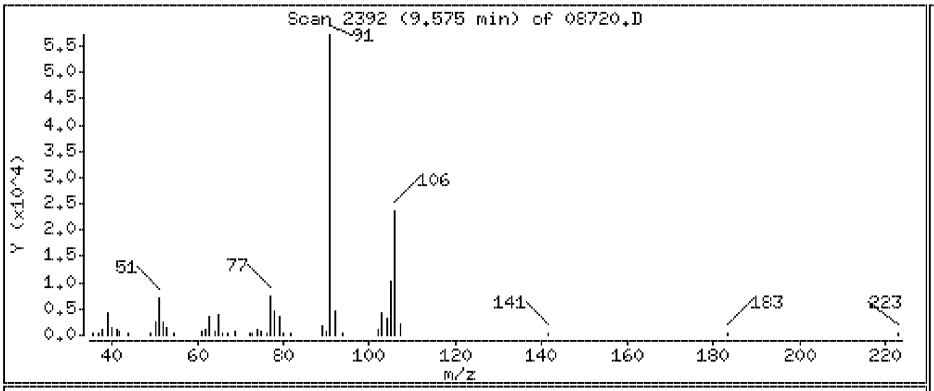
Operator: NCK

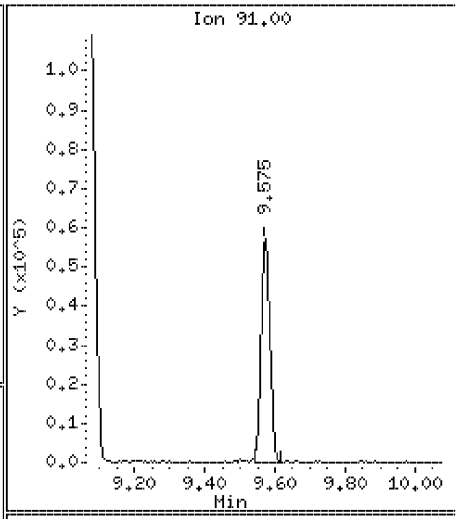
Column phase: J&W DB-5

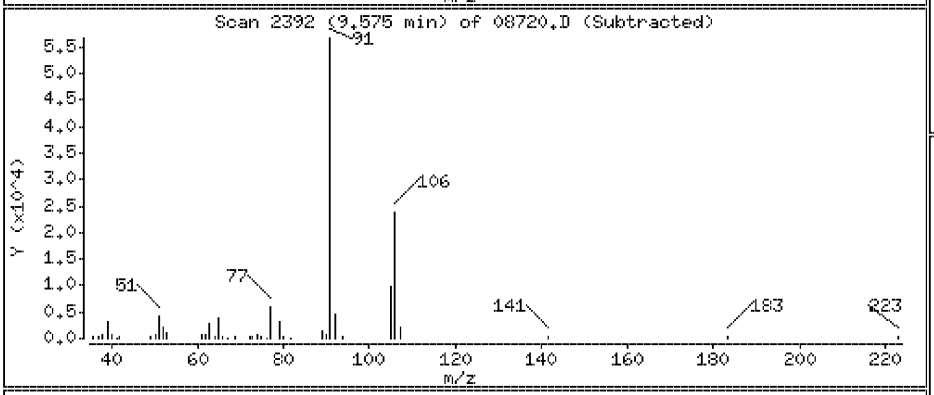
Column diameter: 0.32

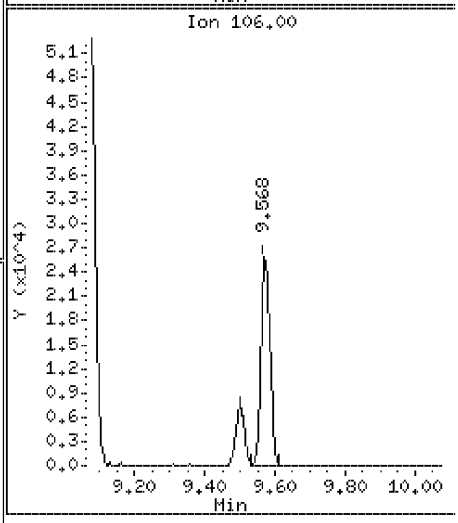
74 o-Xylene

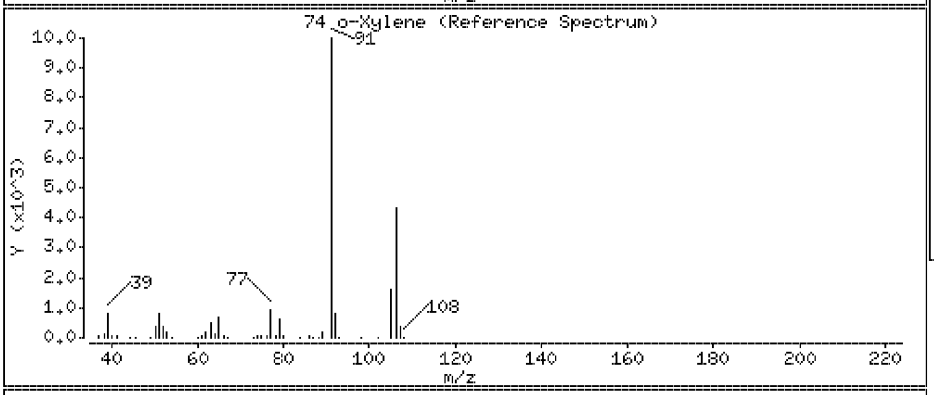
Concentration: 0.958 ppbv

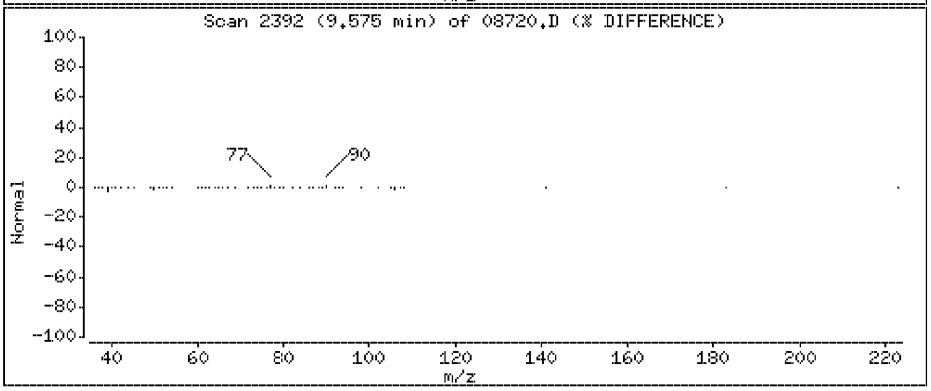












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

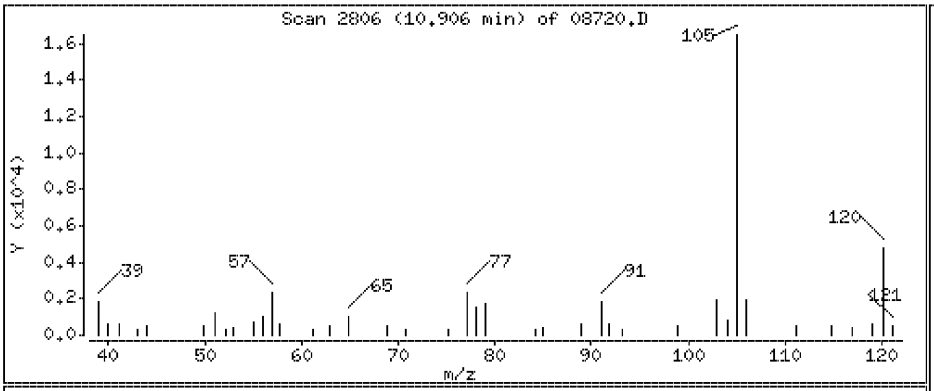
Operator: NCK

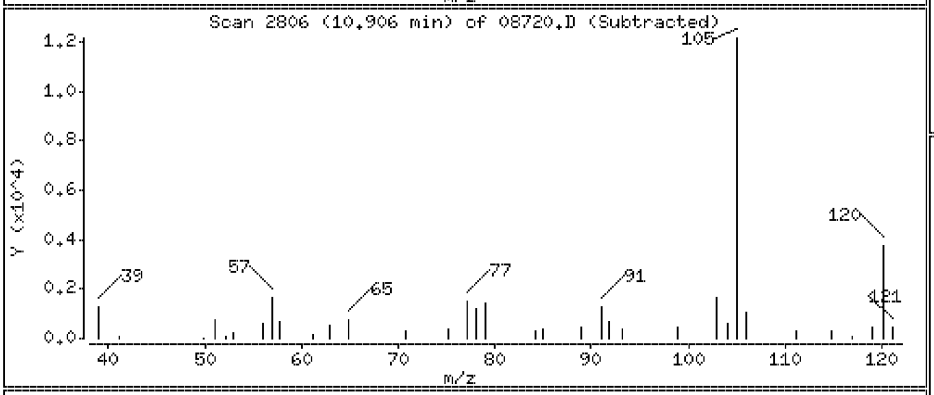
Column phase: J&W DB-5

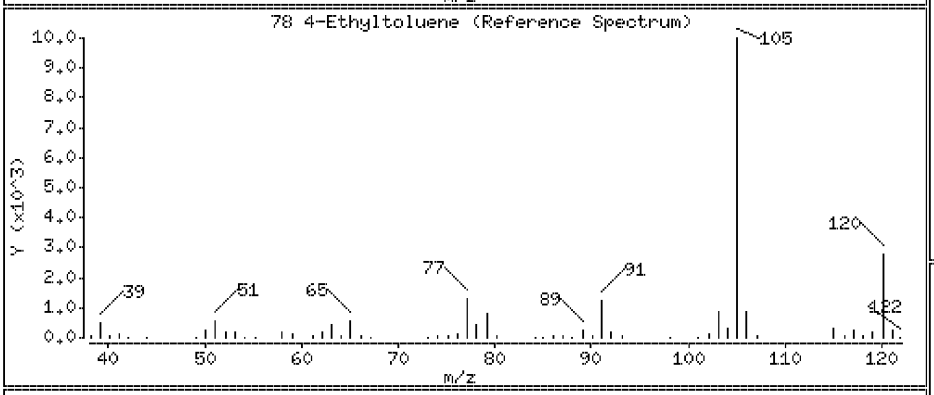
Column diameter: 0.32

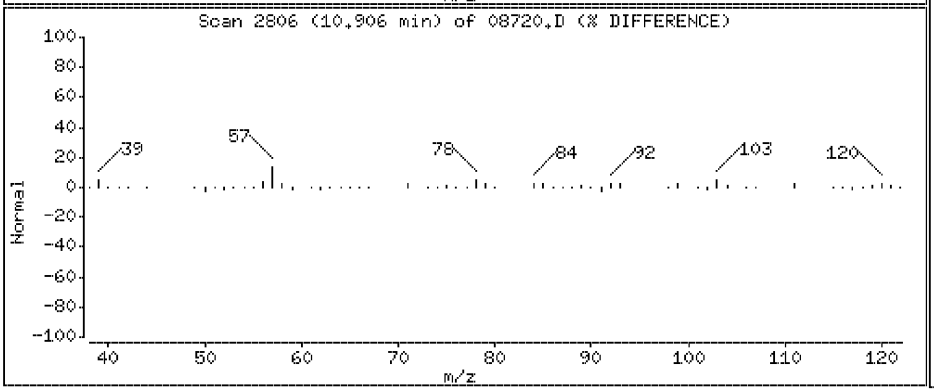
78 4-Ethyltoluene

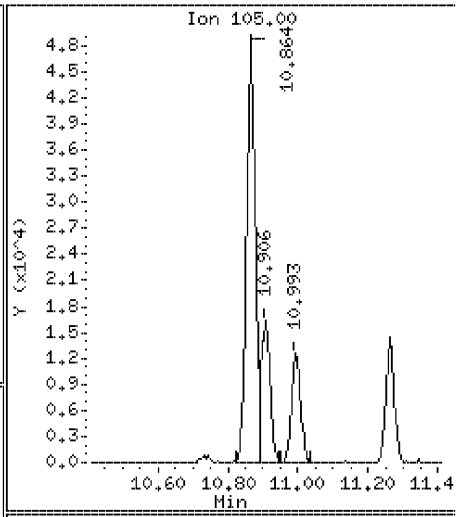
Concentration: 0.231 ppbv

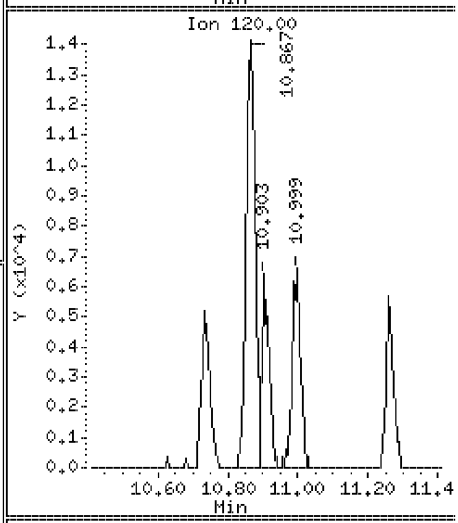


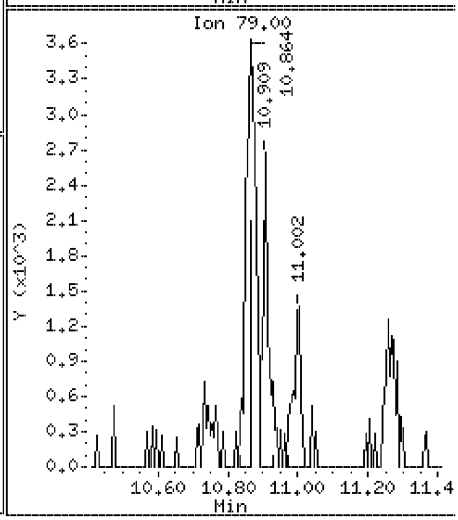












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

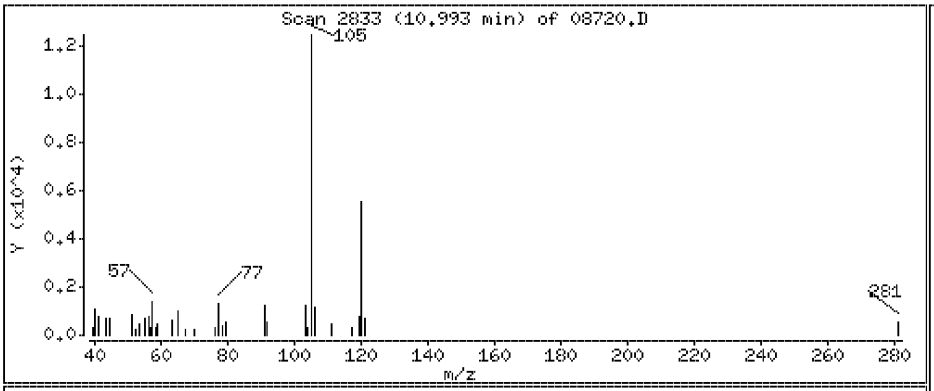
Operator: NCK

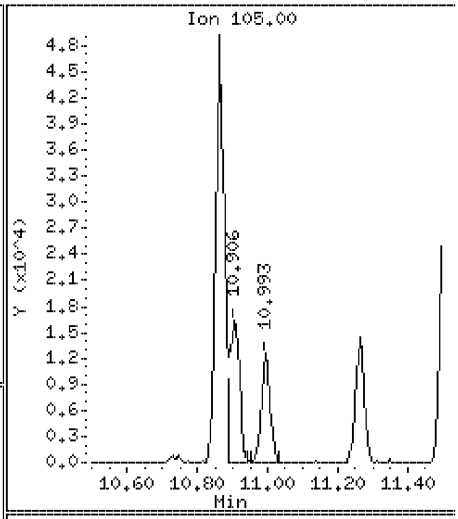
Column phase: J&W DB-5

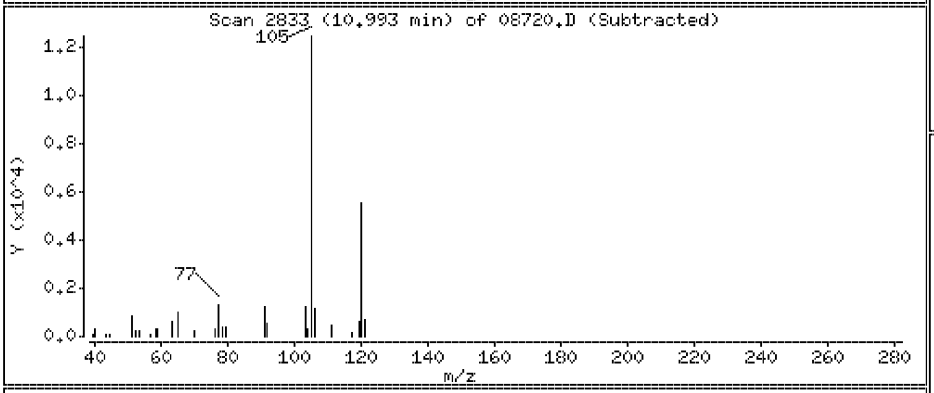
Column diameter: 0.32

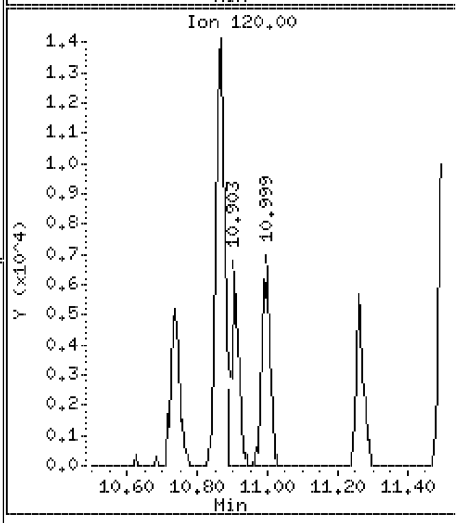
79 1,3,5-Trimethylbenzene

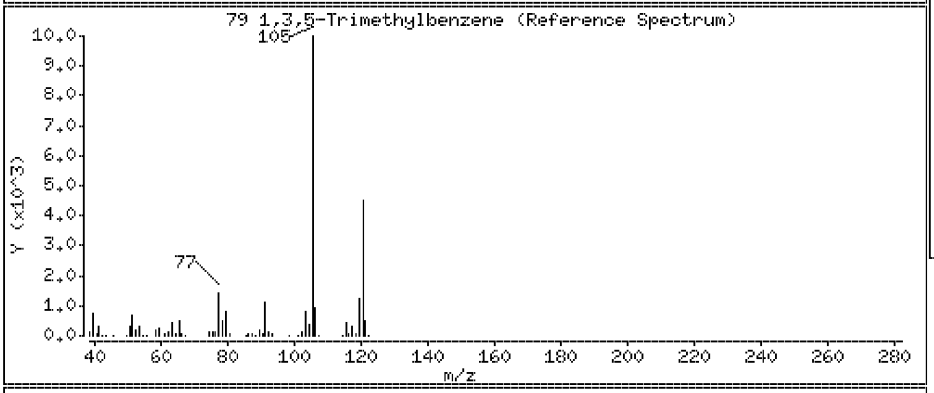
Concentration: 0.198 ppbv

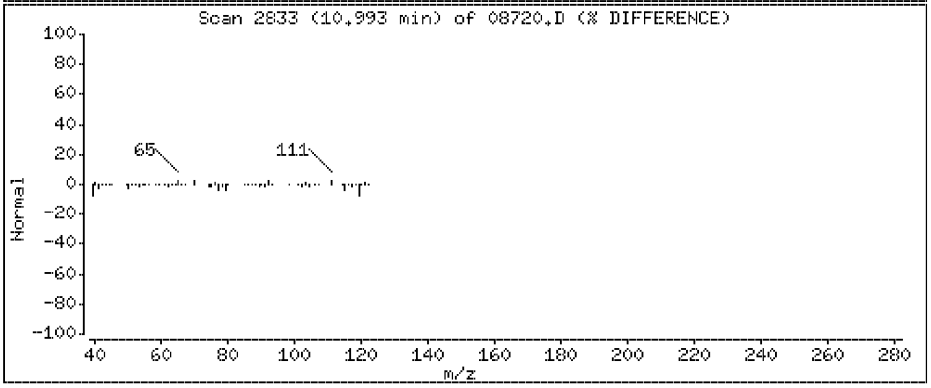












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

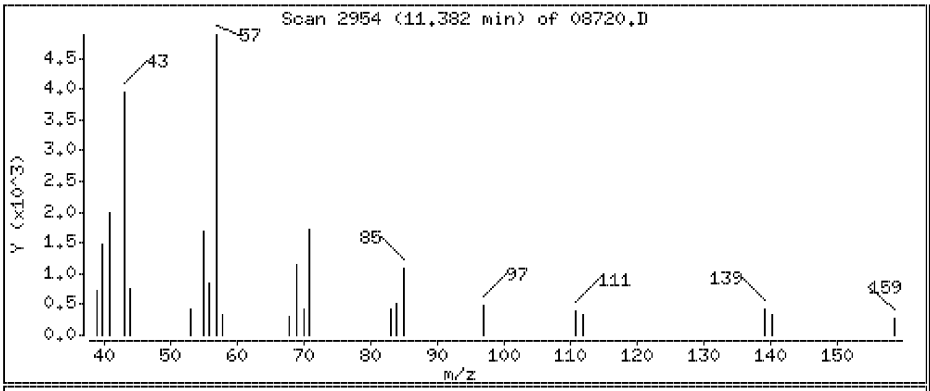
Operator: NCK

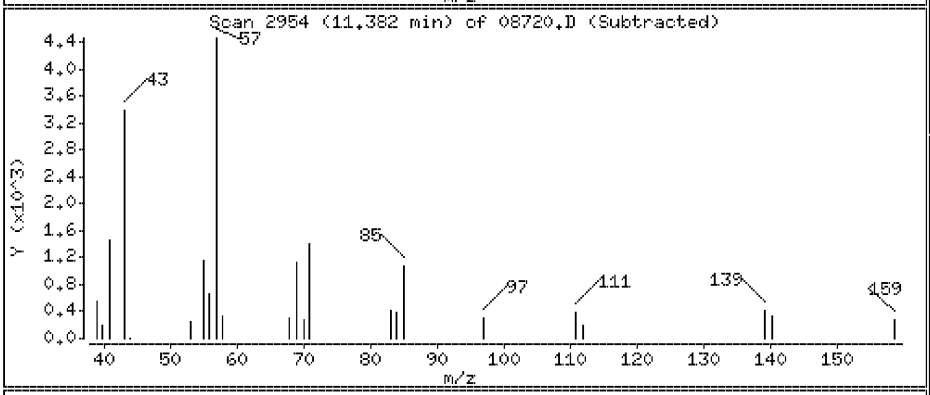
Column phase: J&W DB-5

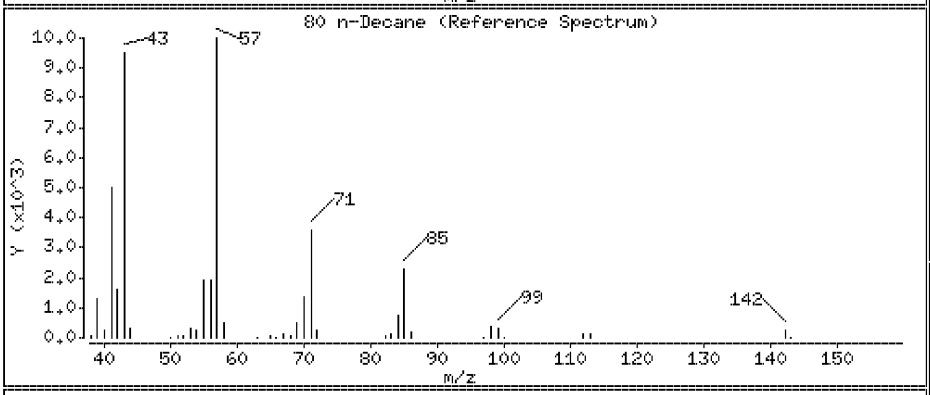
Column diameter: 0.32

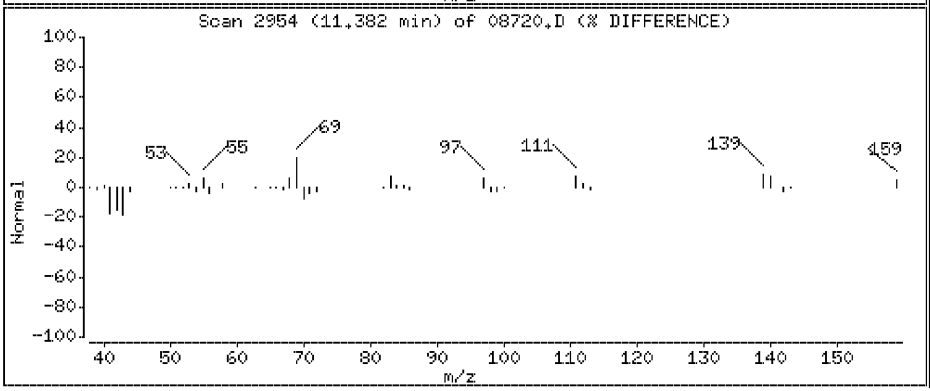
80 n-Decane

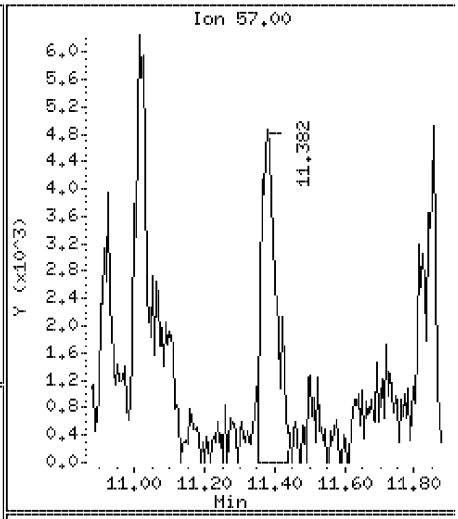
Concentration: 0.231 ppbv

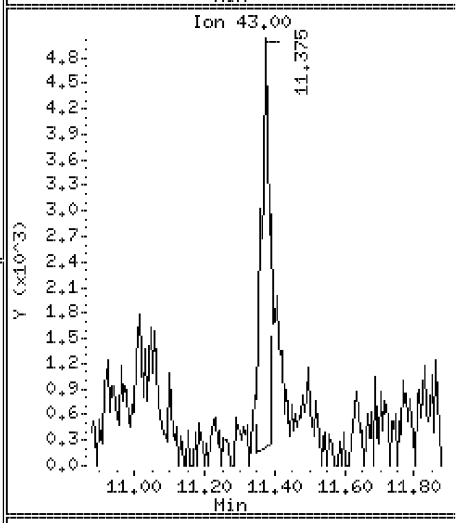


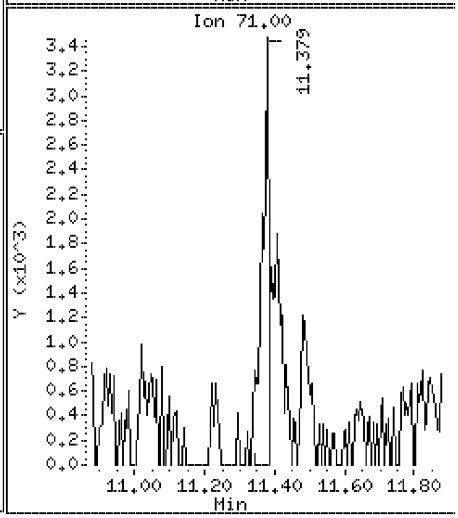












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08720.D

Date : 28-MAR-2017 19:08

Client ID:

Instrument: 10airB.i

Sample Info:

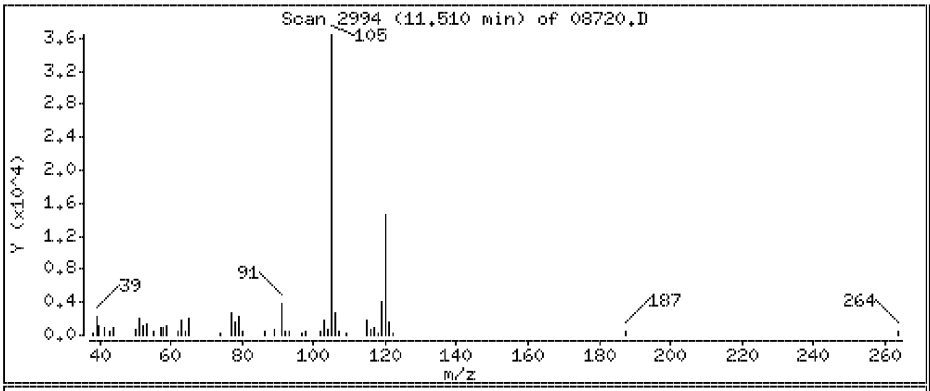
Operator: NCK

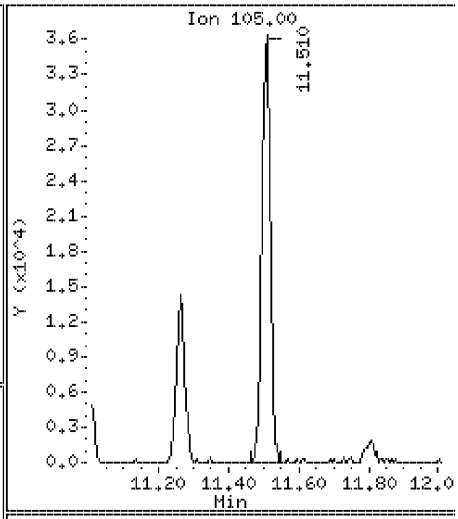
Column phase: J&W DB-5

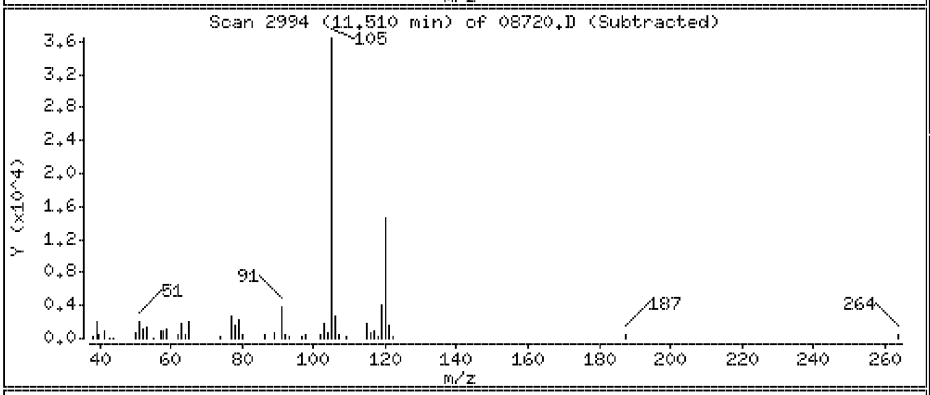
Column diameter: 0.32

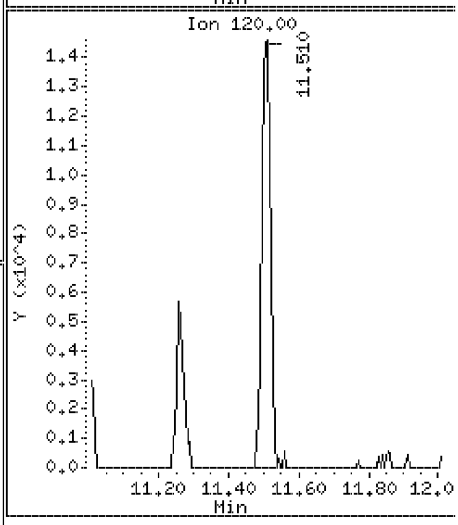
82 1,2,4-Trimethylbenzene

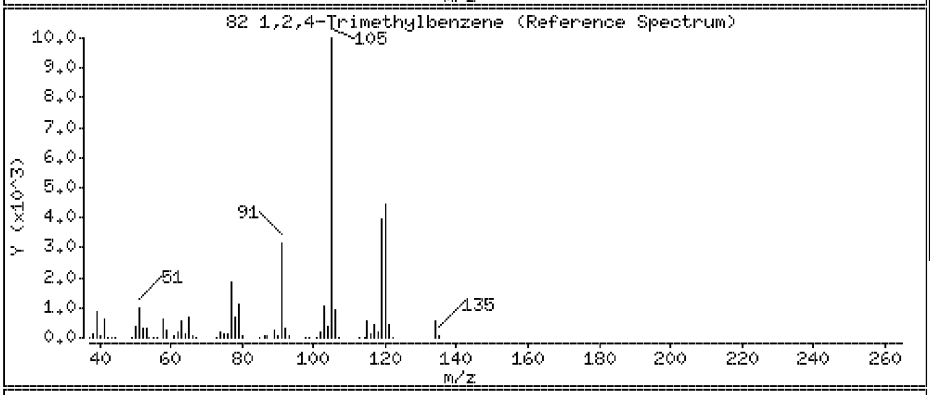
Concentration: 0.618 ppbv

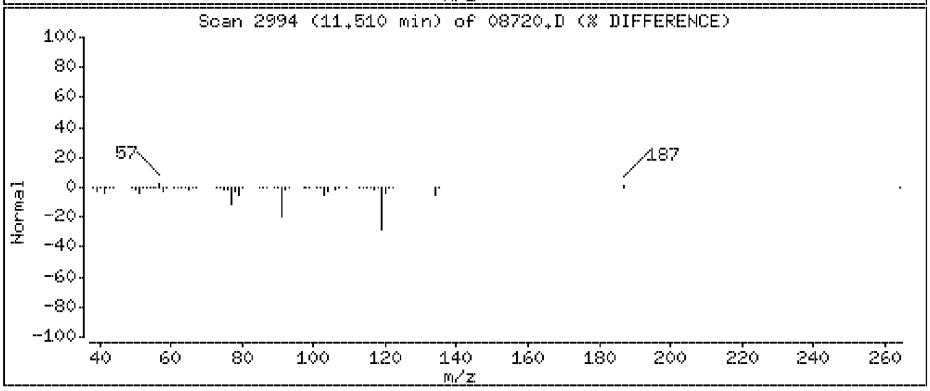












Data File: \\192.168.10.12\chem\10airB.i\032817.b/08720.D
Injection Date: 28-MAR-2017 19:08
Instrument: 10airB.i
Lab Sample ID: 10381335017
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_10_20170307 **Lab ID: 10381335018** Collected: 03/07/17 13:25 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**5.4**	ug/m3	4.1	1.4	1.68		03/28/17 20:43	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/28/17 20:43	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/28/17 20:43	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/28/17 20:43	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/28/17 20:43	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/28/17 20:43	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/28/17 20:43	106-99-0	
2-Butanone (MEK)	**<0.38**	ug/m3	5.0	0.38	1.68		03/28/17 20:43	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/28/17 20:43	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/28/17 20:43	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/28/17 20:43	108-90-7	
Chlorodifluoromethane	**1.1J**	ug/m3	1.2	0.46	1.68		03/28/17 20:43	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/28/17 20:43	75-00-3	
Chloroform	**<0.32**	ug/m3	0.83	0.32	1.68		03/28/17 20:43	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/28/17 20:43	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/28/17 20:43	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/28/17 20:43	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/28/17 20:43	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/28/17 20:43	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/28/17 20:43	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/28/17 20:43	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/28/17 20:43	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/28/17 20:43	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.7	0.81	1.68		03/28/17 20:43	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/28/17 20:43	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/28/17 20:43	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/28/17 20:43	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 20:43	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/28/17 20:43	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/28/17 20:43	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/28/17 20:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	3.9	0.44	1.68		03/28/17 20:43	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/28/17 20:43	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/28/17 20:43	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/28/17 20:43	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/28/17 20:43	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/28/17 20:43	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/28/17 20:43	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.2	0.60	1.68		03/28/17 20:43	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/28/17 20:43	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/28/17 20:43	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/28/17 20:43	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 20:43	108-87-2	
Methylene Chloride	**7.7**	ug/m3	5.9	0.91	1.68		03/28/17 20:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/28/17 20:43	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/28/17 20:43	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D
Report Date: 03-Apr-2017 15:06

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08723.D
Lab Smp Id: 10381335018
Inj Date : 28-MAR-2017 20:43
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 23
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.028	2.996	(0.541)	2257	0.18854	0.317	(Q)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.028	(0.546)	44251	0.34357	0.577	(H)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.539	3.539	(0.632)	44658	2.87847	4.84	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.655	3.658	(0.653)	15694	0.17407	0.292	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.725	3.713	(0.666)	81001	1.32505	2.23	
19	Isopropyl Alcohol	45	3.761	3.764	(0.672)	367631	5.34283	8.98	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.931	3.938	(0.702)	3878	0.05356	0.0900	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D
Report Date: 03-Apr-2017 15:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.979	3.999	(0.711)	60596	1.29305	2.17	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.430	4.385	(0.791)	13272	0.12907	0.217	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.478	(0.800)	915822	10.4339	10.4	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.571	4.574	(0.817)	12105	0.17488	0.294(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						(D)
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	2339832	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.883	5.886	(1.051)	943	0.01107	0.0186(aQ)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.970	5.986	(1.067)	41446	0.58517	0.983	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.073	(1.263)	2042582	10.3548	10.4	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	64101	0.66658	1.12	
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1468323	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D
Report Date: 03-Apr-2017 15:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	667305	9.57342	9.57	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.166	14.169	(1.640)	2875	0.37372	0.628	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D
Report Date: 03-Apr-2017 15:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08723.D
Lab Smp Id: 10381335018
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

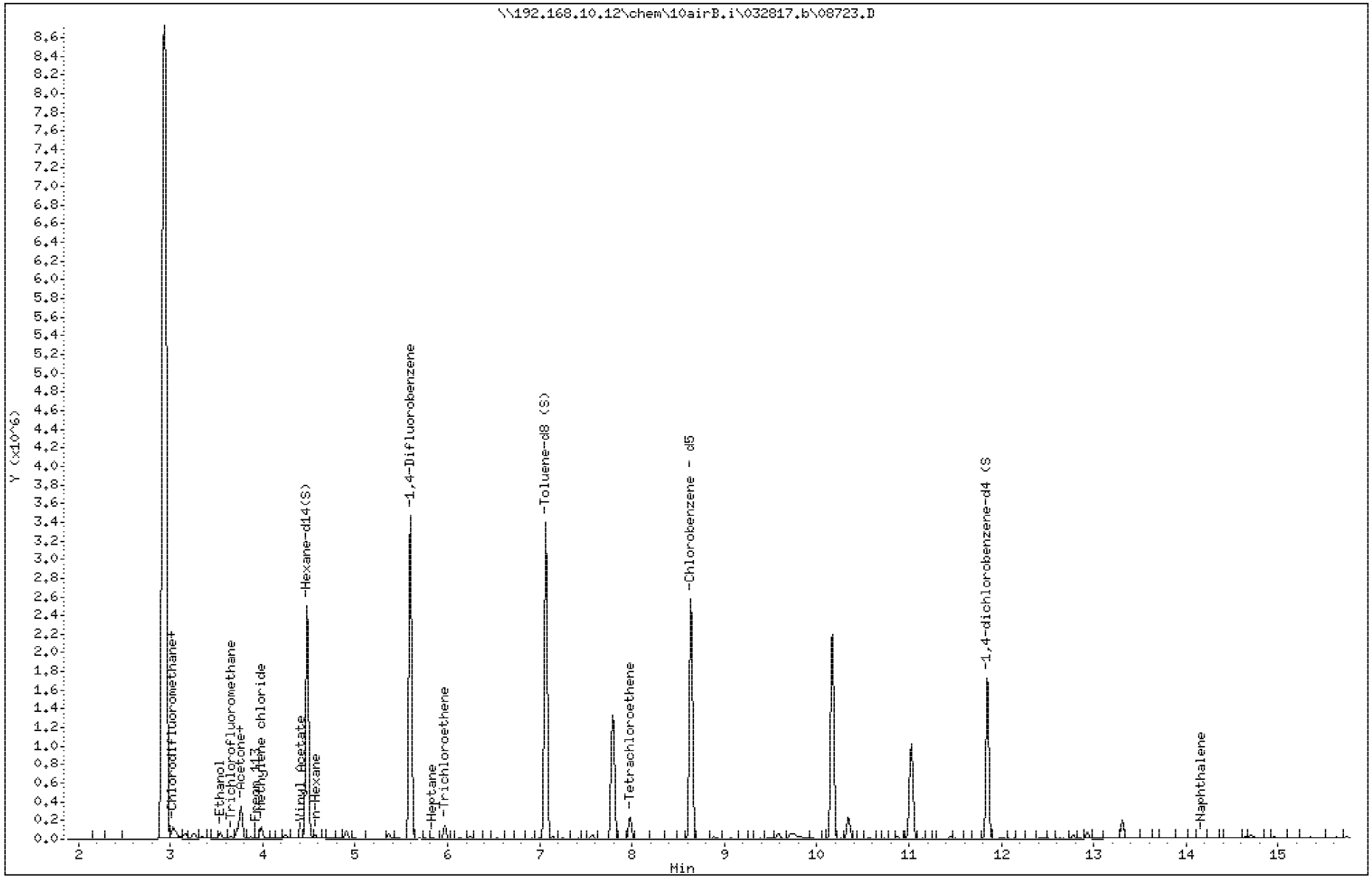
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2339832	-17.37
67 Chlorobenzene - d	1804482	1082689	2526275	1468323	-18.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D
Date : 28-MAR-2017 20:43
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

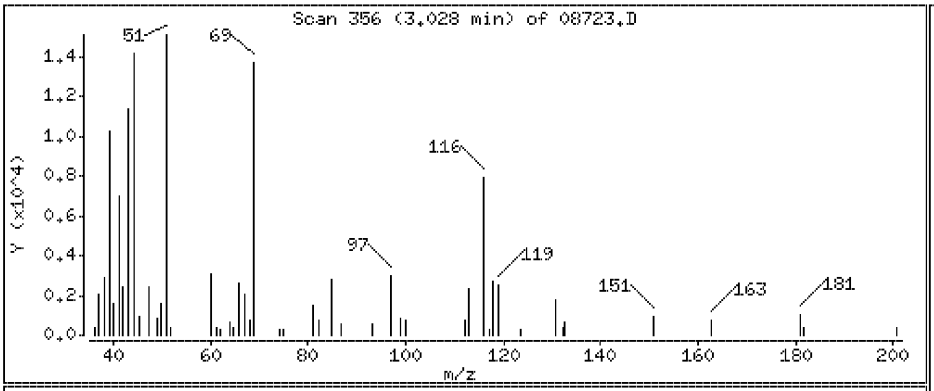
Operator: NCK

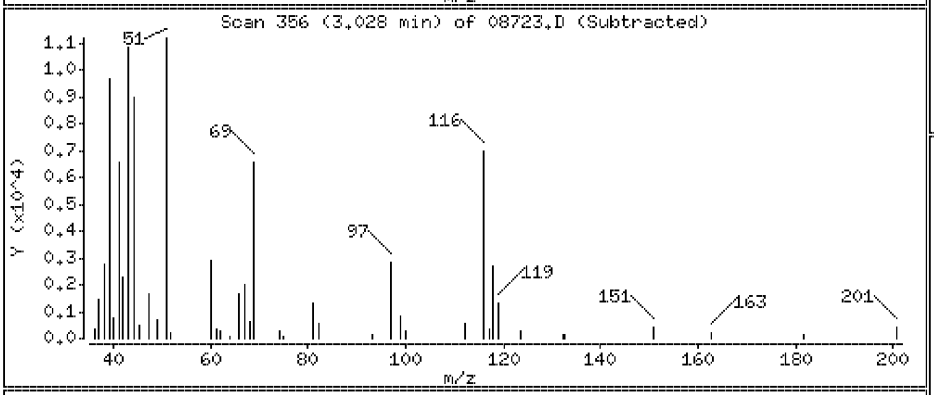
Column phase: J&W DB-5

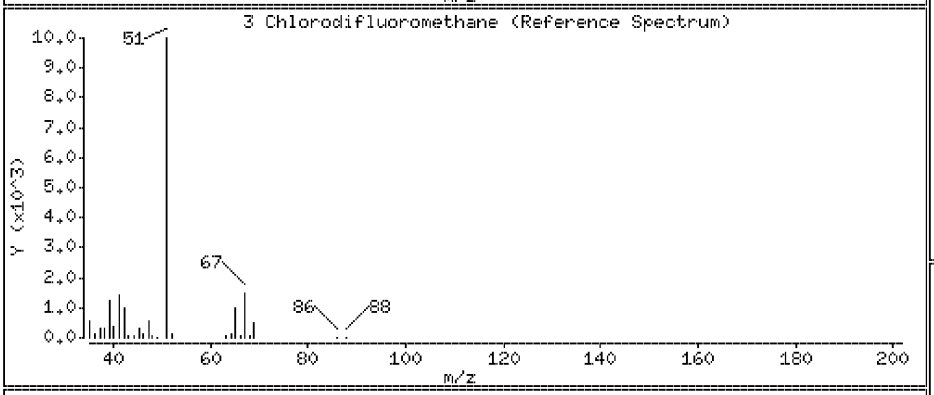
Column diameter: 0.32

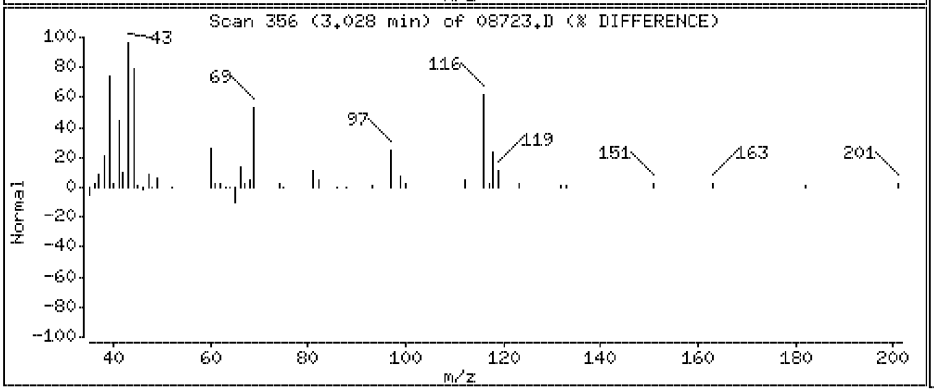
3 Chlorodifluoromethane

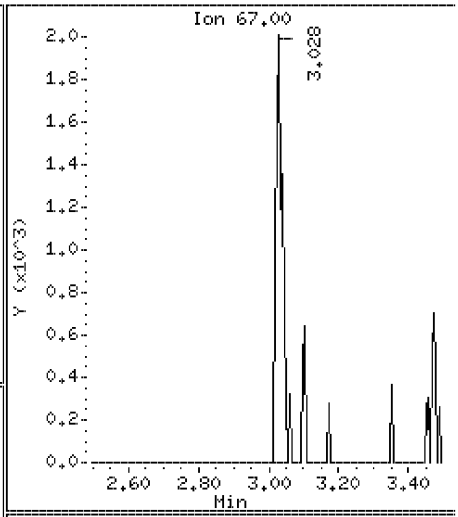
Concentration: 0.317 ppbv

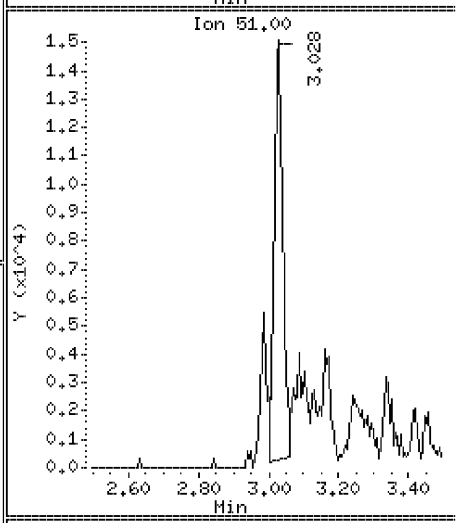


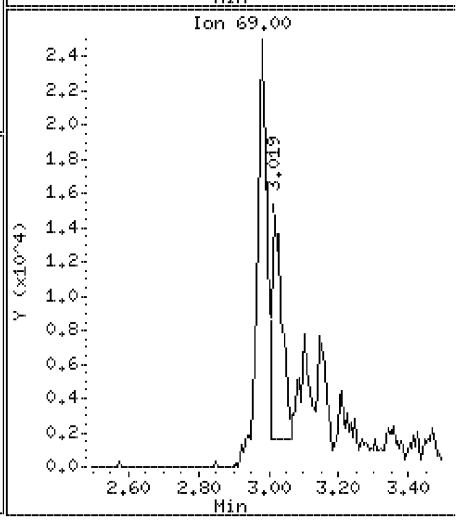












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

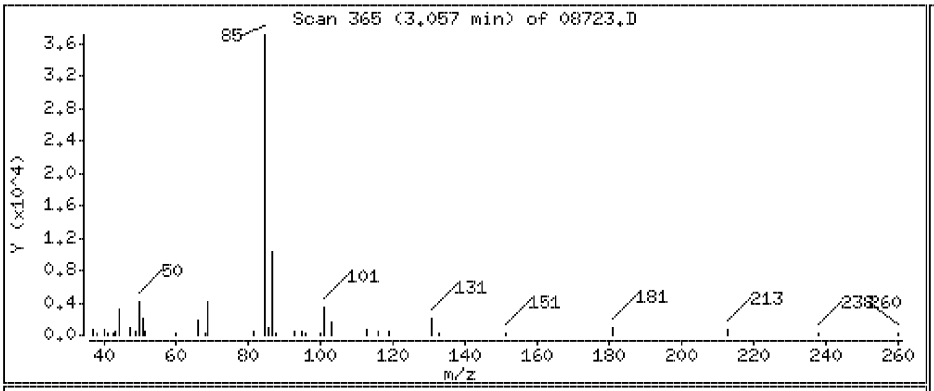
Operator: NCK

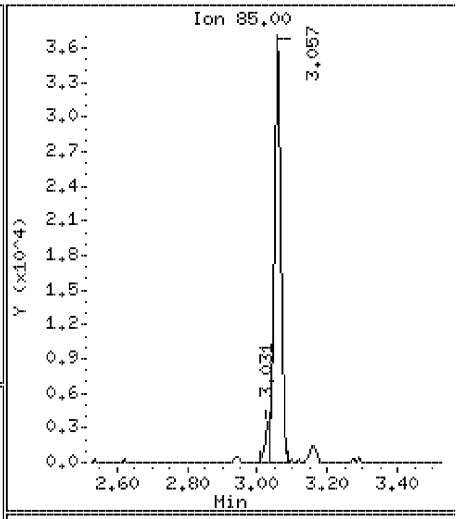
Column phase: J&W DB-5

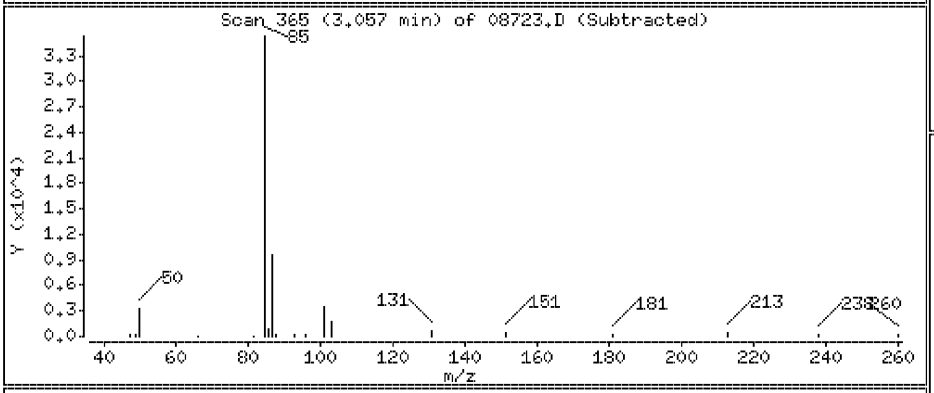
Column diameter: 0.32

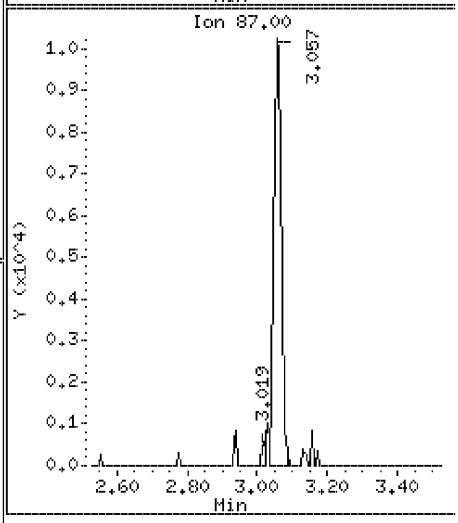
5 Dichlorodifluoromethane

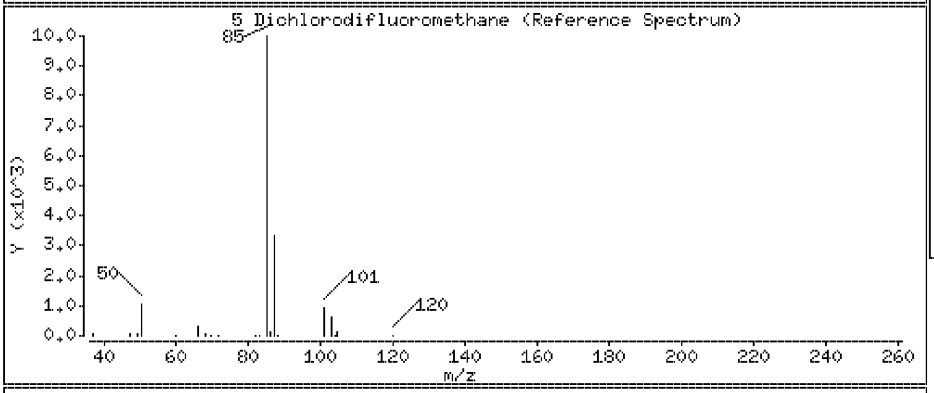
Concentration: 0.577 ppbv

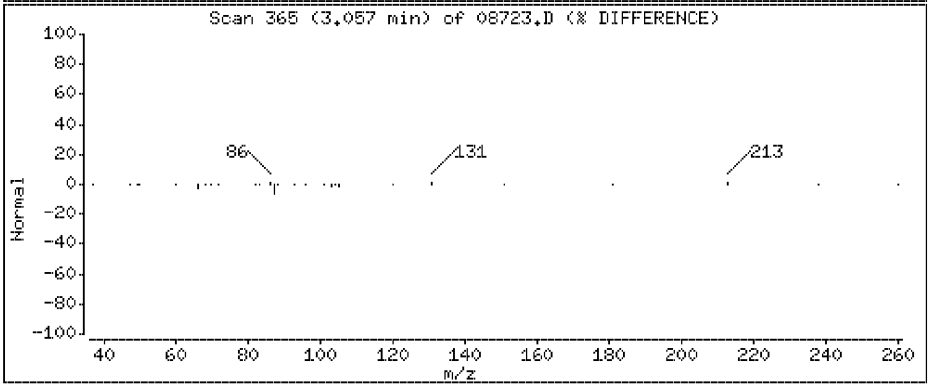












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

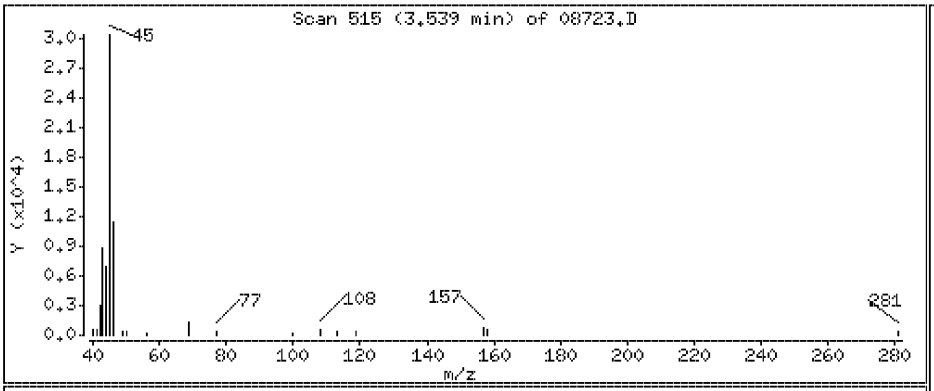
Operator: NCK

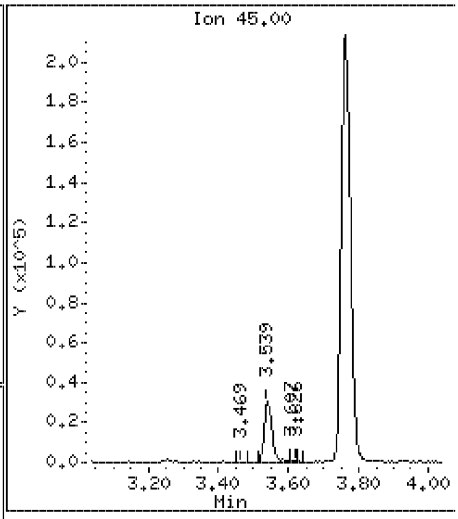
Column phase: J&W DB-5

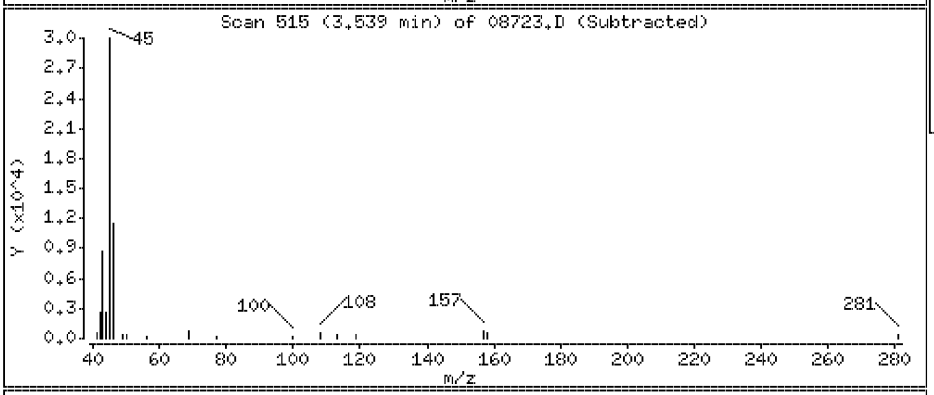
Column diameter: 0.32

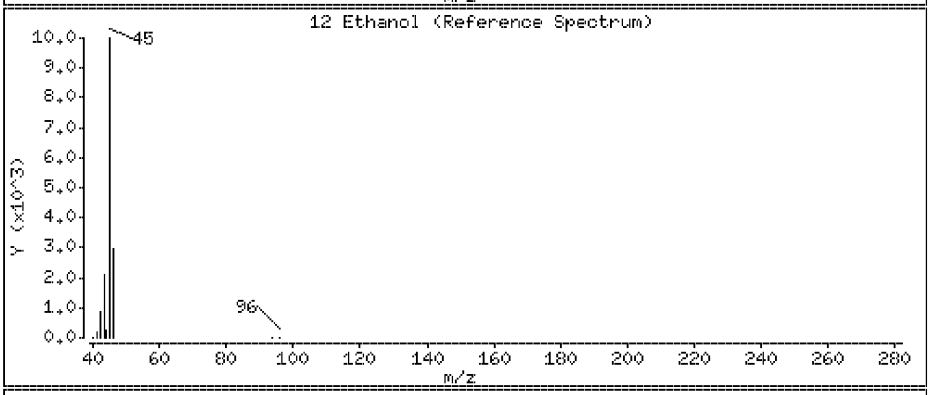
12 Ethanol

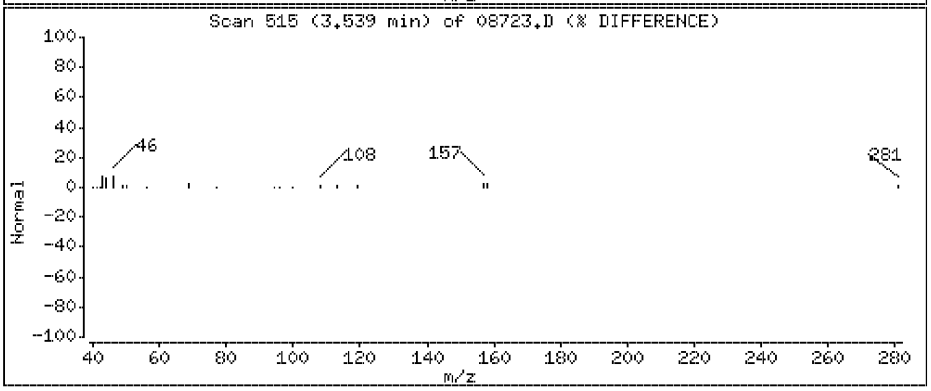
Concentration: 4.84 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

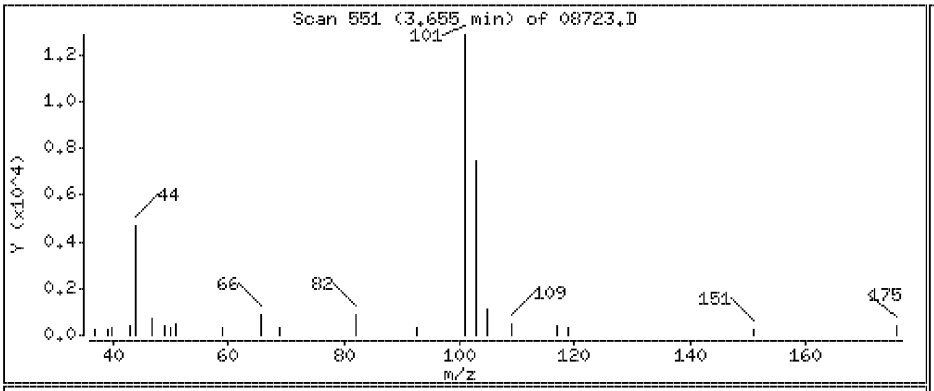
Operator: NCK

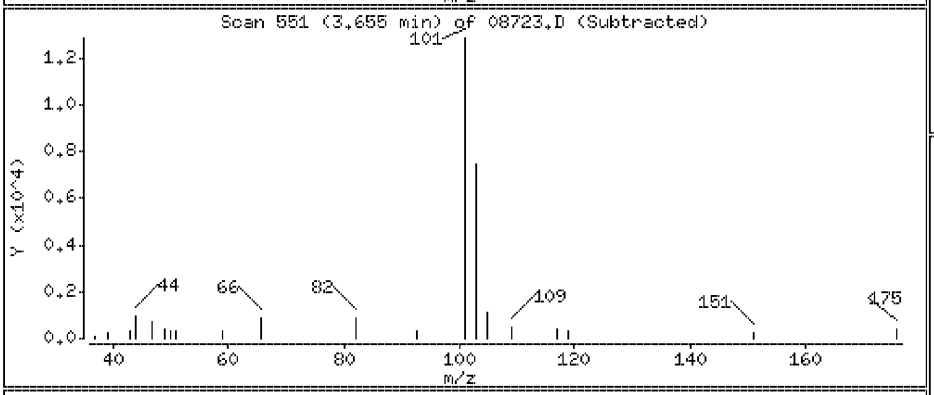
Column phase: J&W DB-5

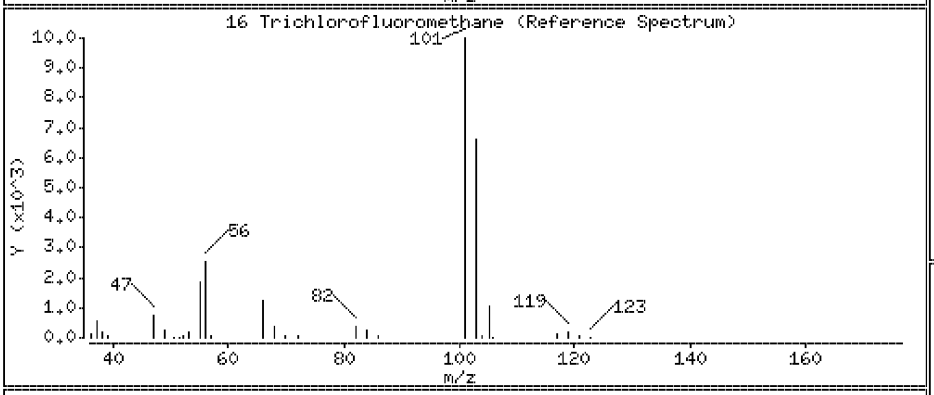
Column diameter: 0.32

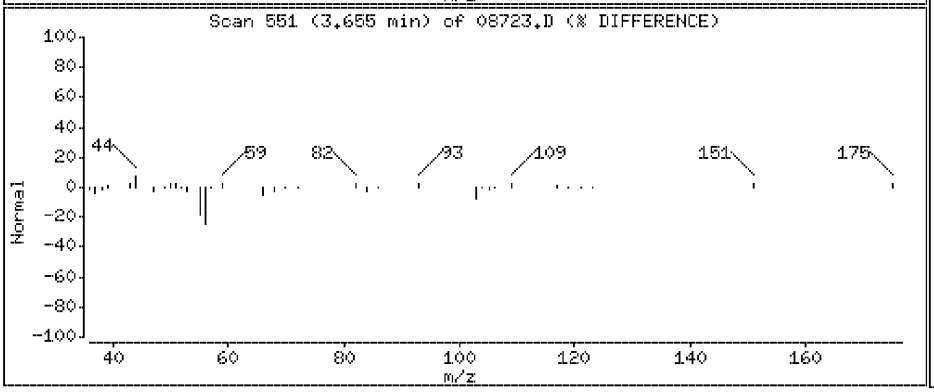
16 Trichlorofluoromethane

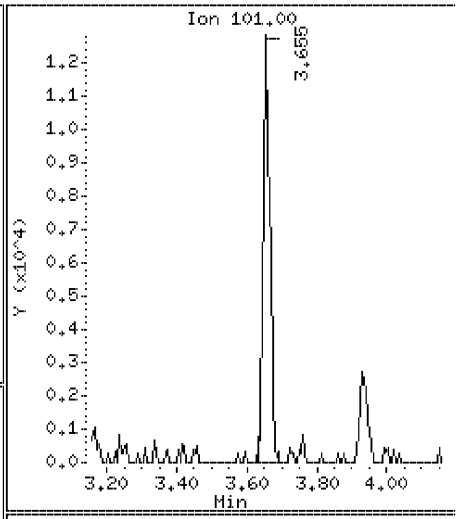
Concentration: 0.292 ppbv

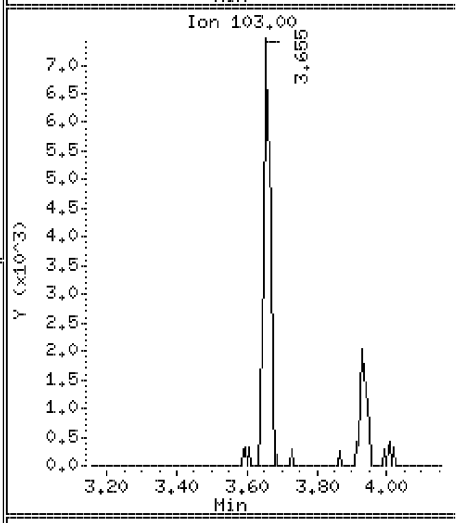


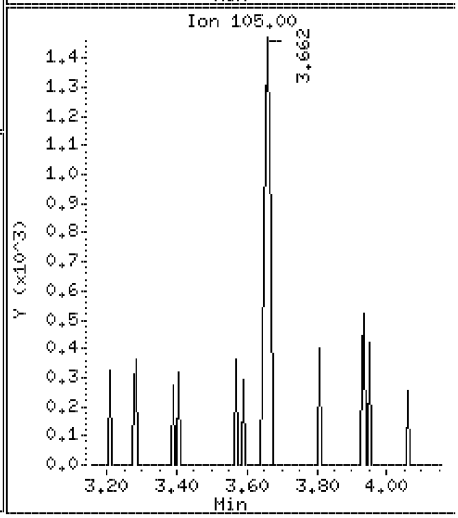












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

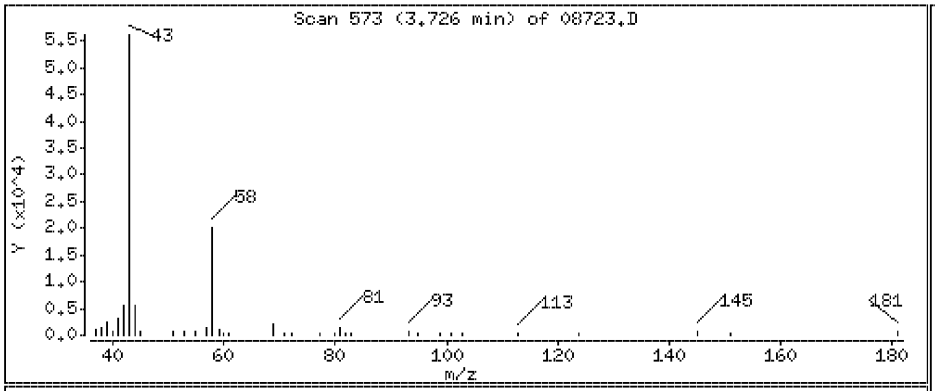
Operator: NCK

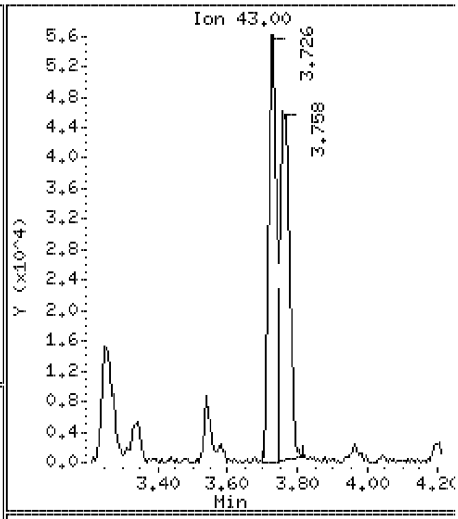
Column phase: J&W DB-5

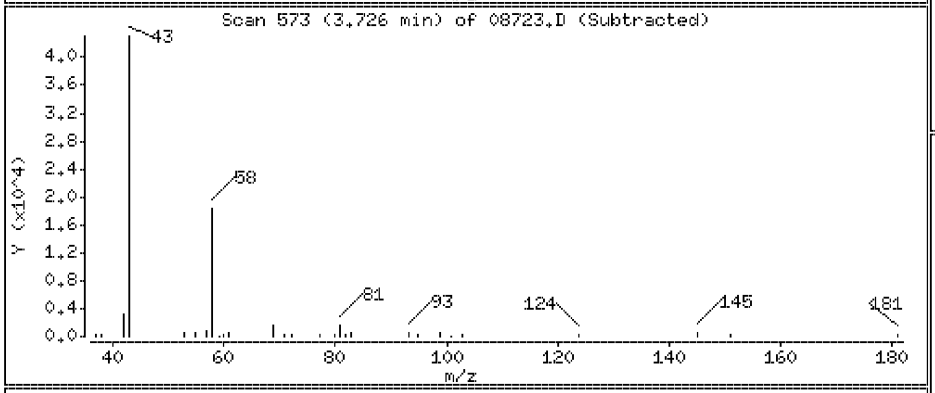
Column diameter: 0.32

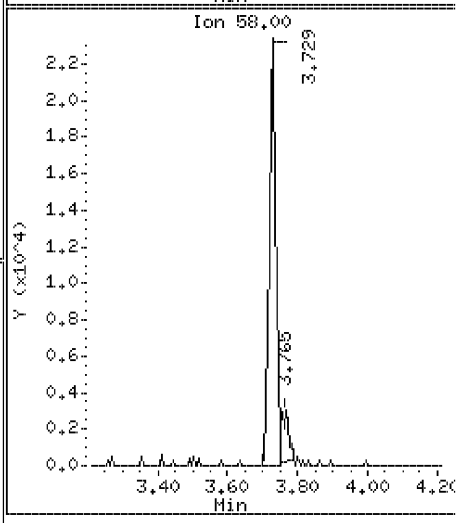
18 Acetone

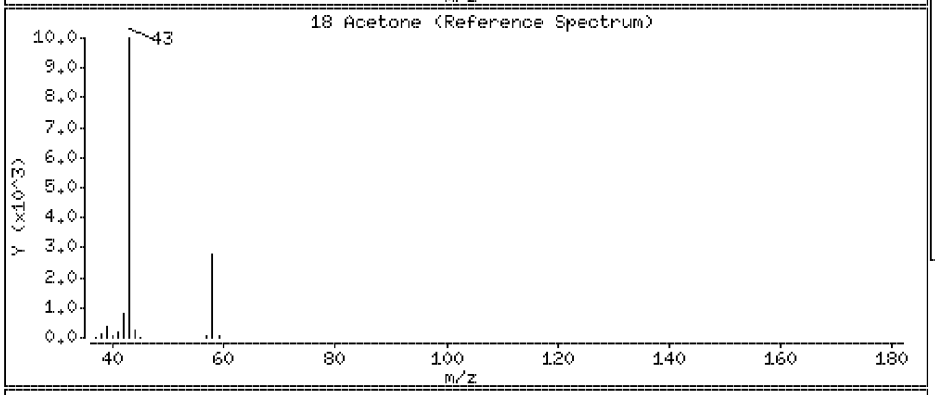
Concentration: 2.23 ppbv

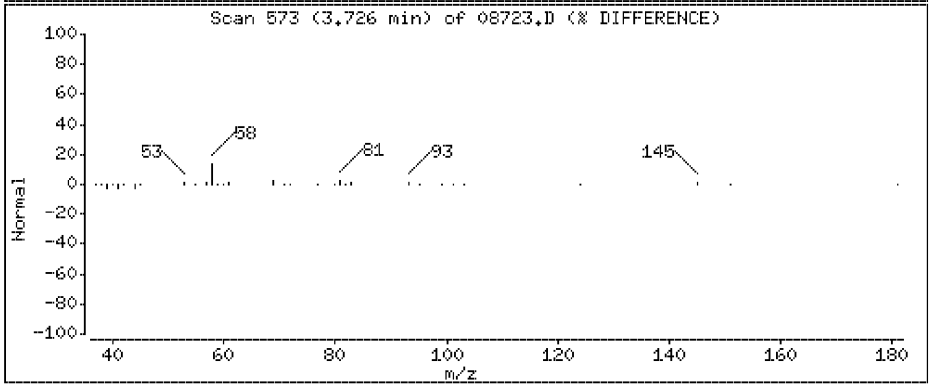












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

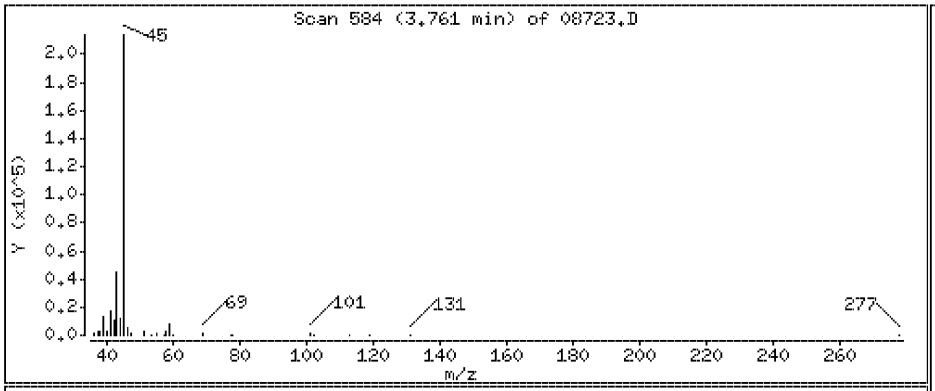
Operator: NCK

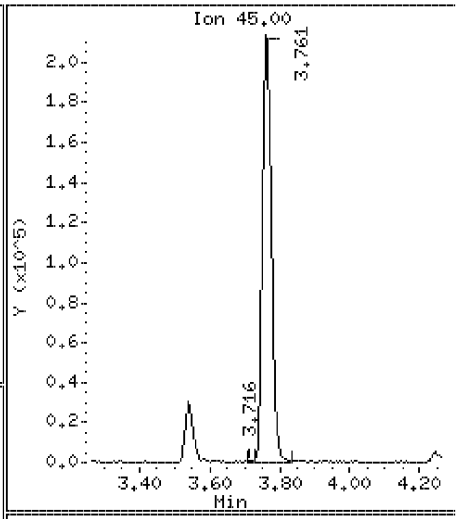
Column phase: J&W DB-5

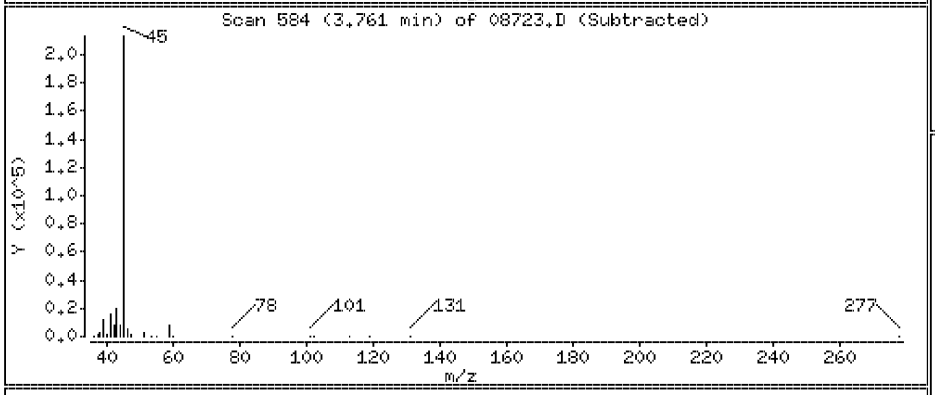
Column diameter: 0.32

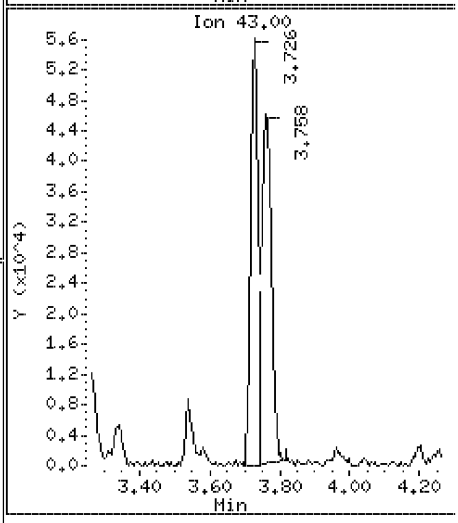
19 Isopropyl Alcohol

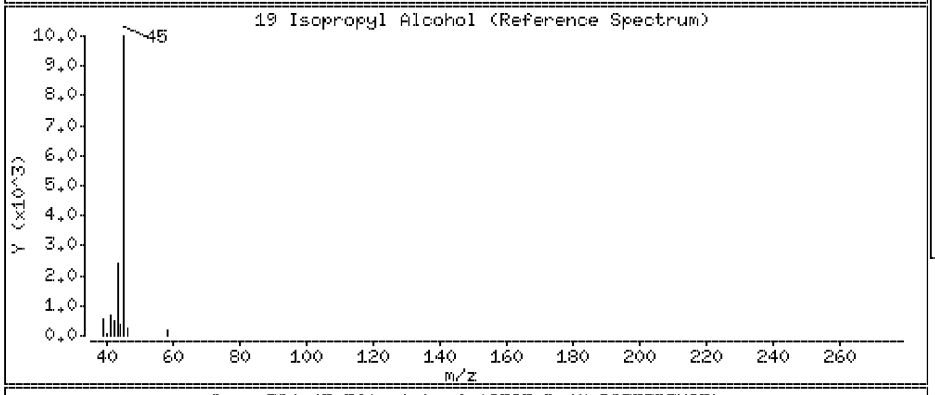
Concentration: 8.98 ppbv

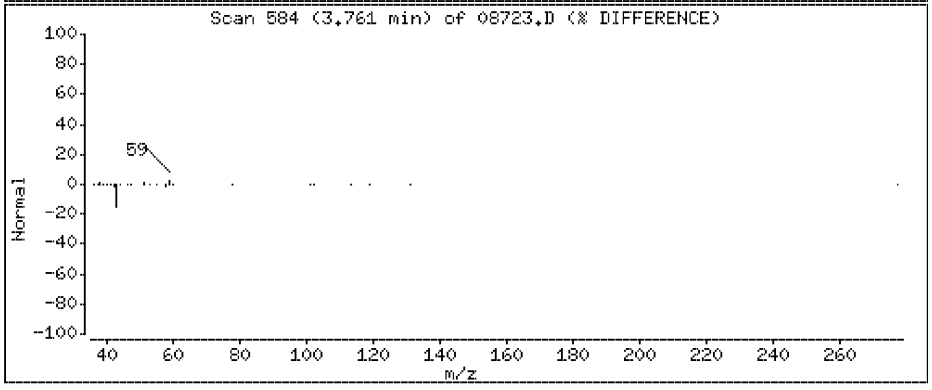












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

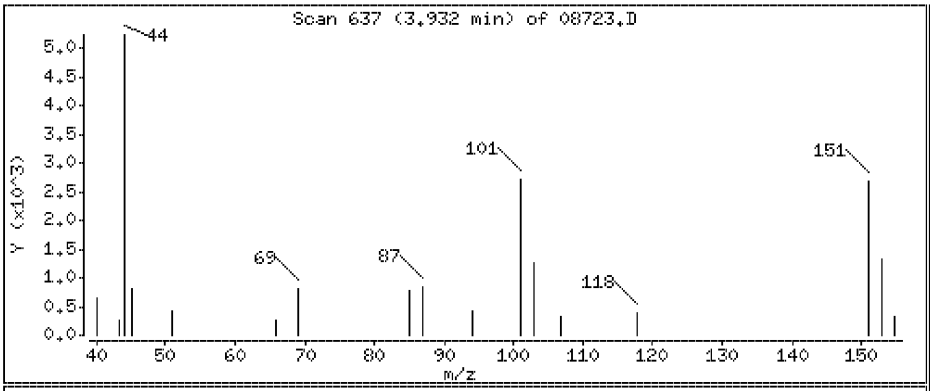
Operator: NCK

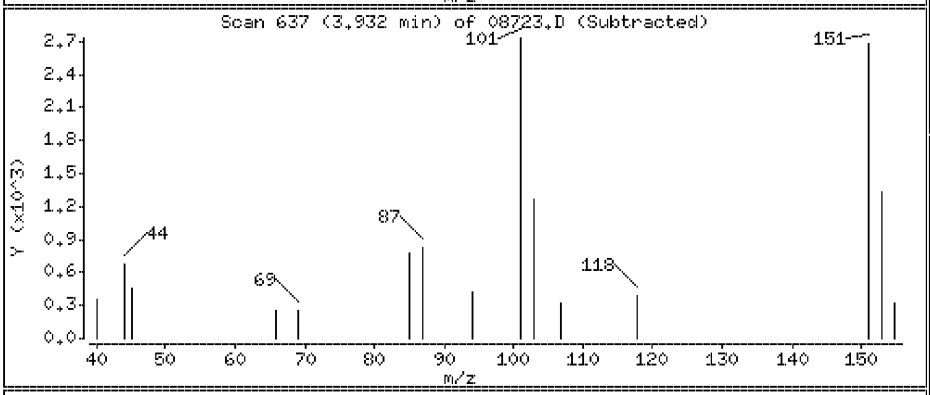
Column phase: J&W DB-5

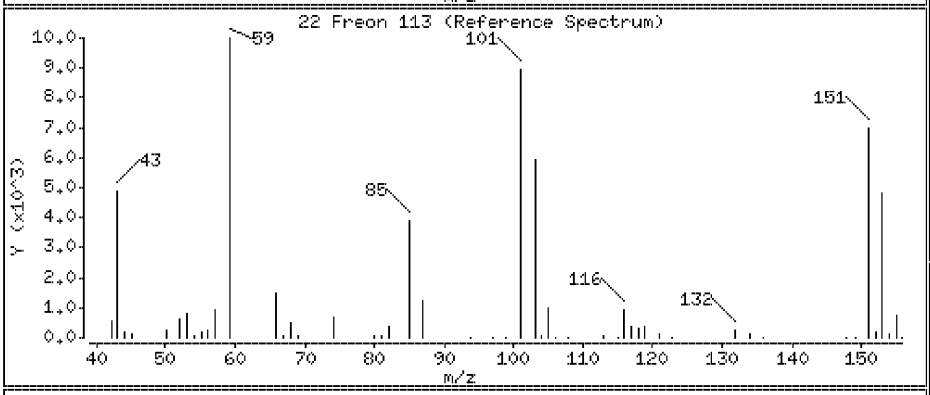
Column diameter: 0.32

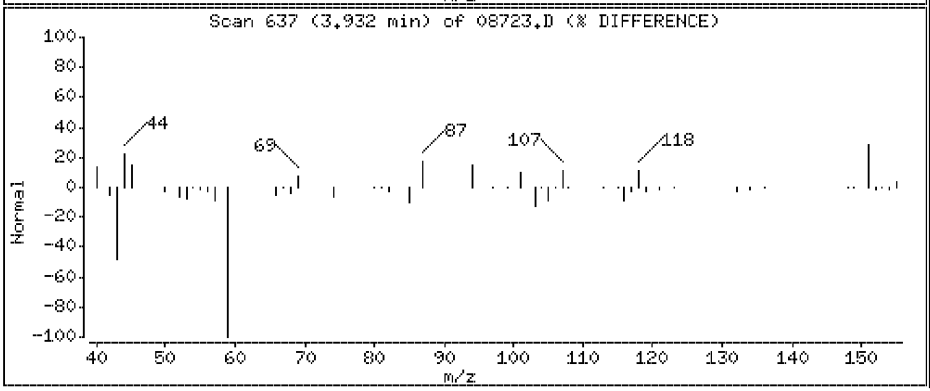
22 Freon 113

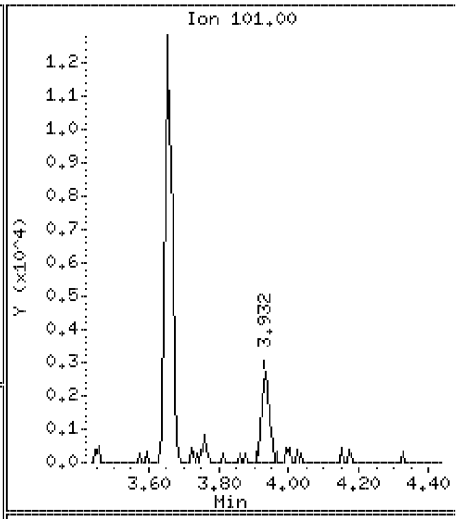
Concentration: 0.0900 ppbv

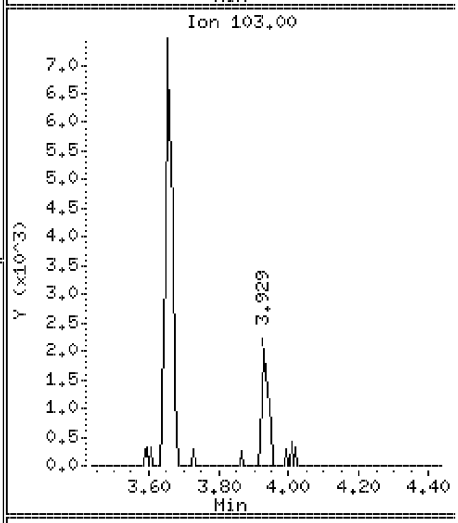


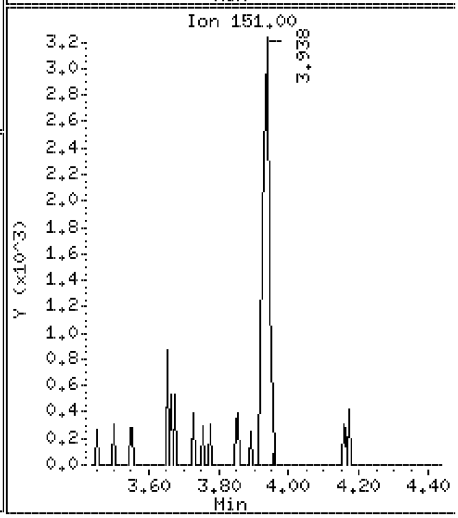












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

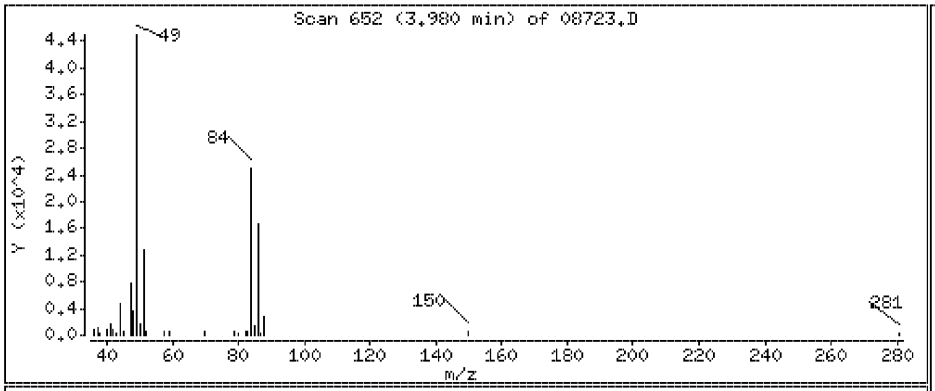
Operator: NCK

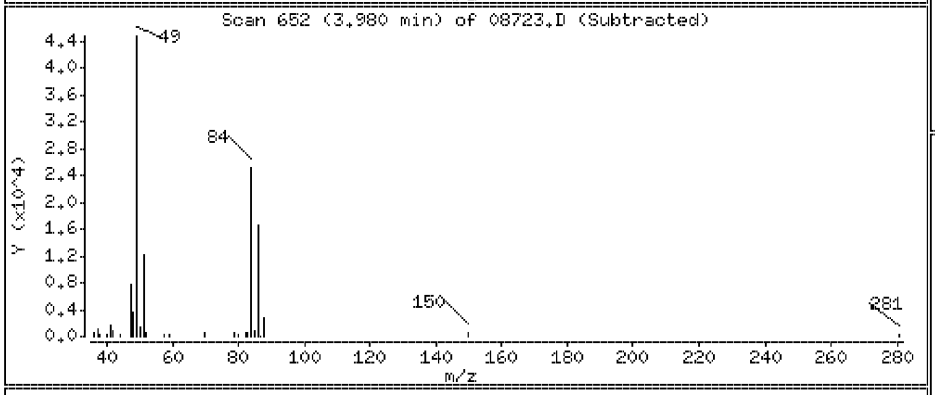
Column phase: J&W DB-5

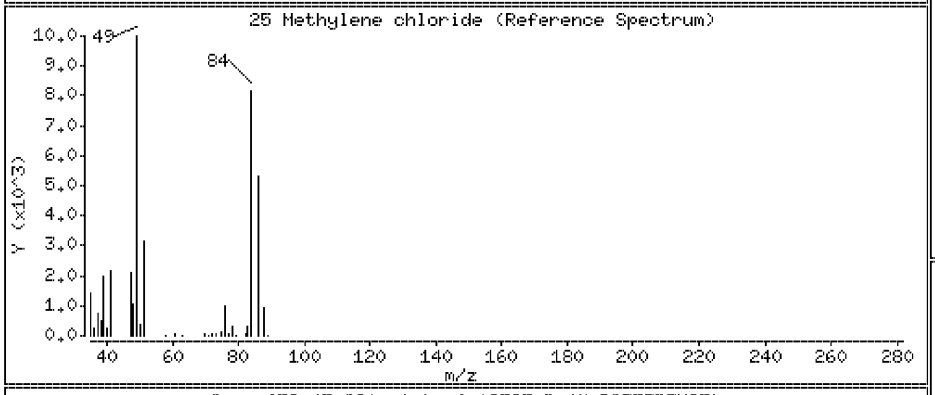
Column diameter: 0.32

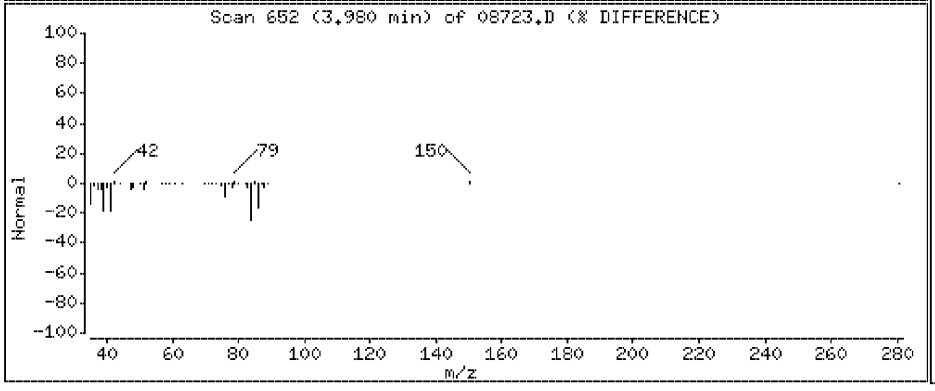
25 Methylene chloride

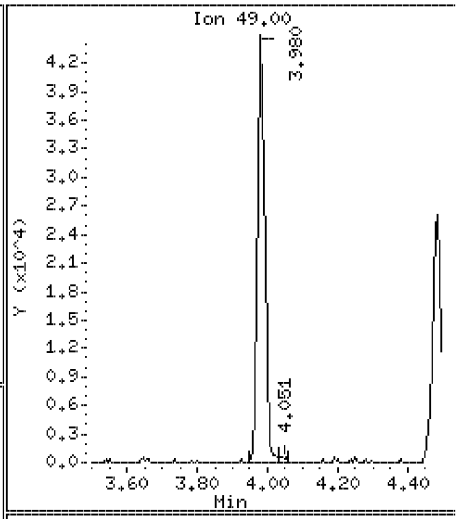
Concentration: 2.17 ppbv

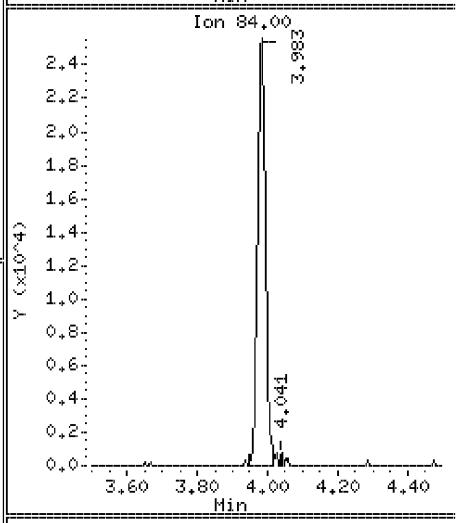


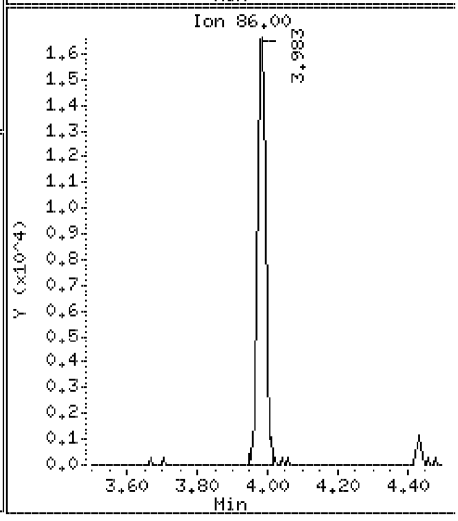












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

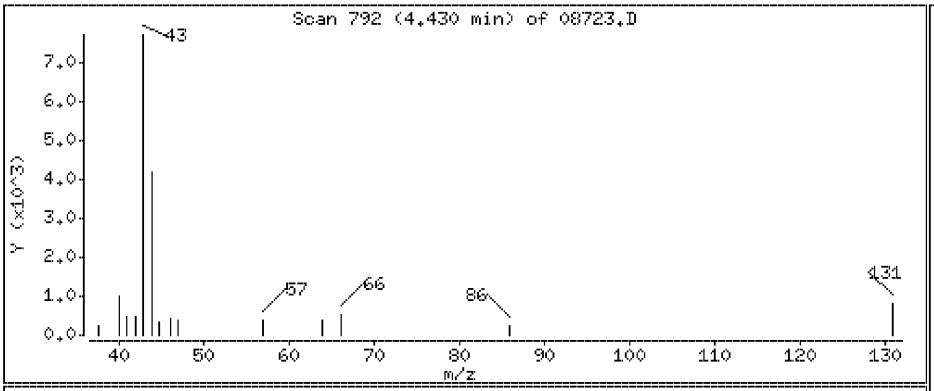
Operator: NCK

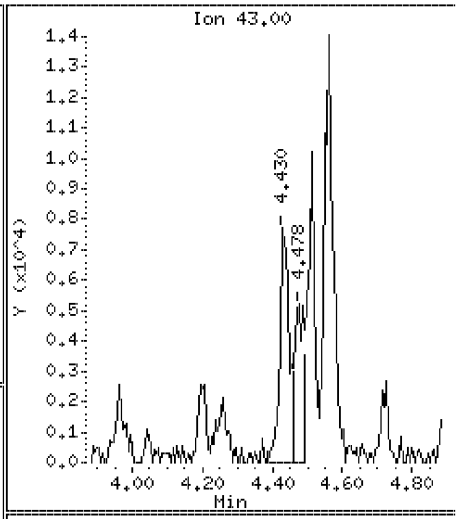
Column phase: J&W DB-5

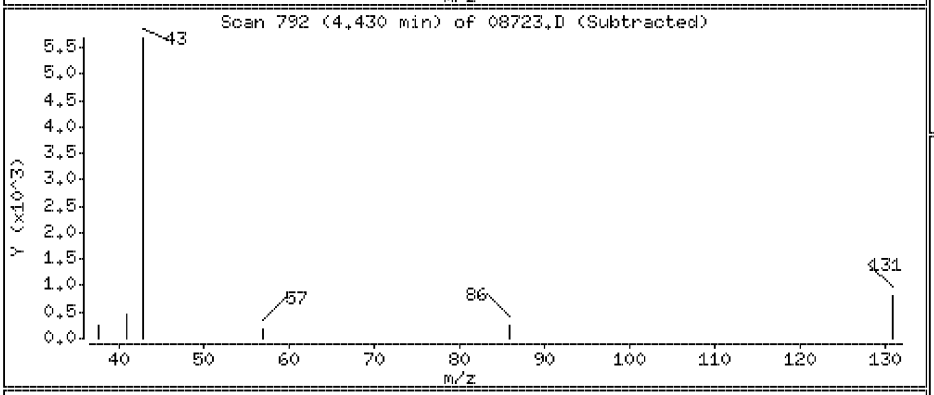
Column diameter: 0.32

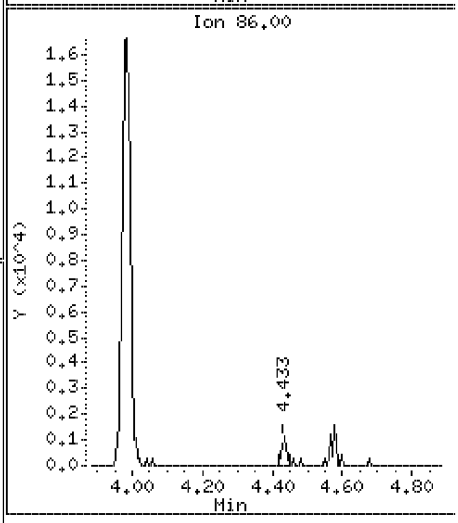
30 Vinyl Acetate

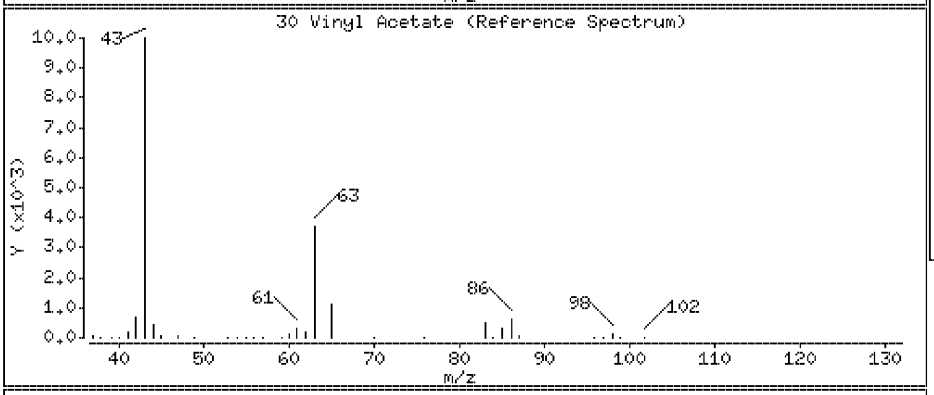
Concentration: 0.217 ppbv

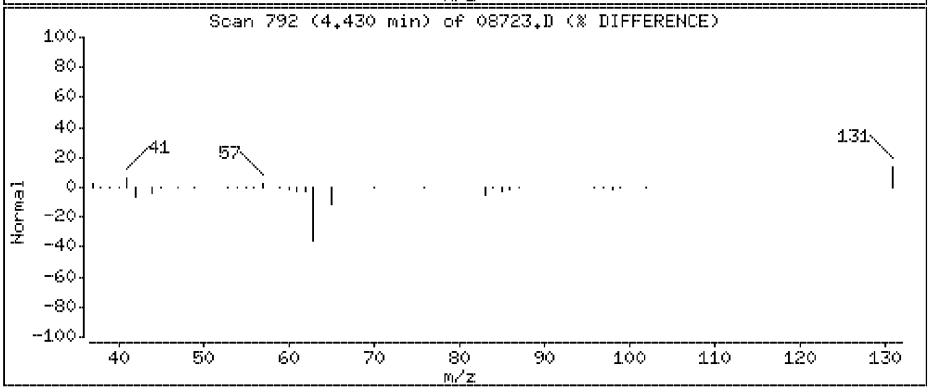












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

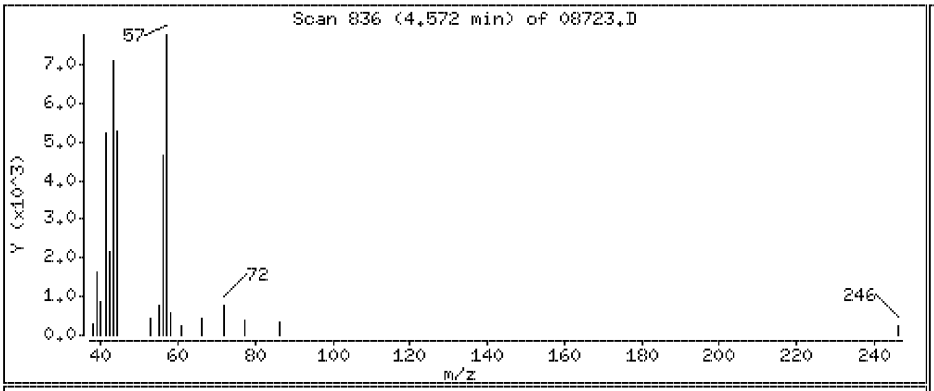
Operator: NCK

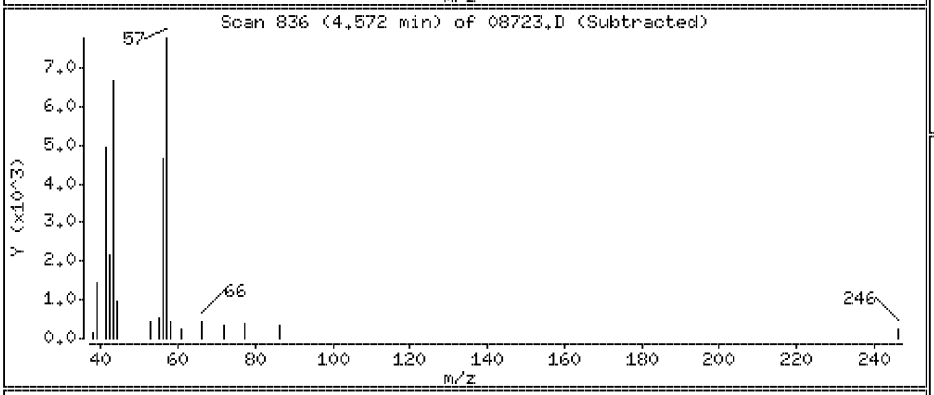
Column phase: J&W DB-5

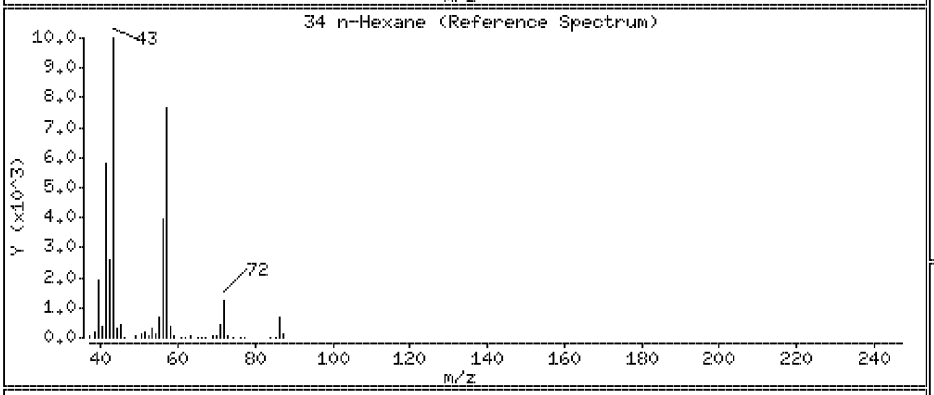
Column diameter: 0.32

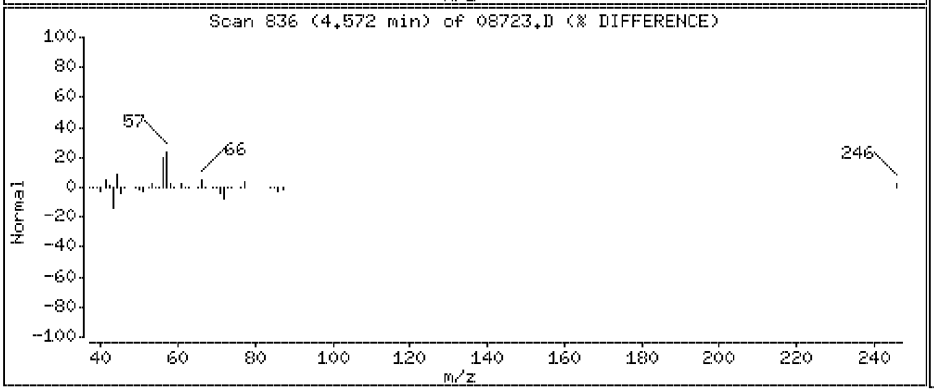
34 n-Hexane

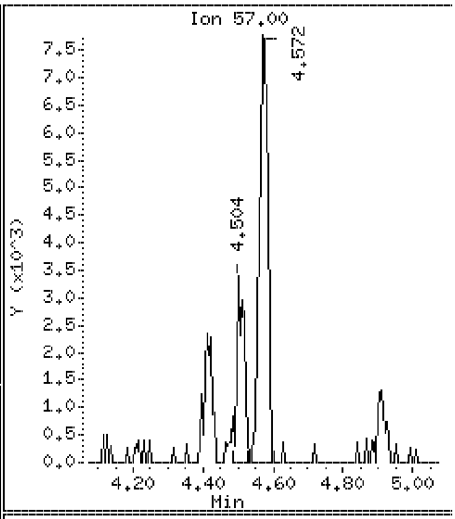
Concentration: 0.294 ppbv

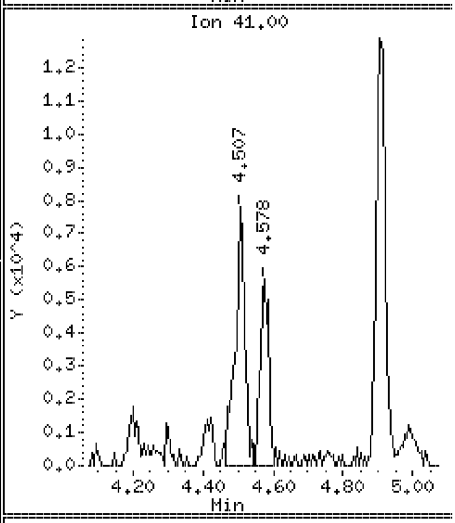


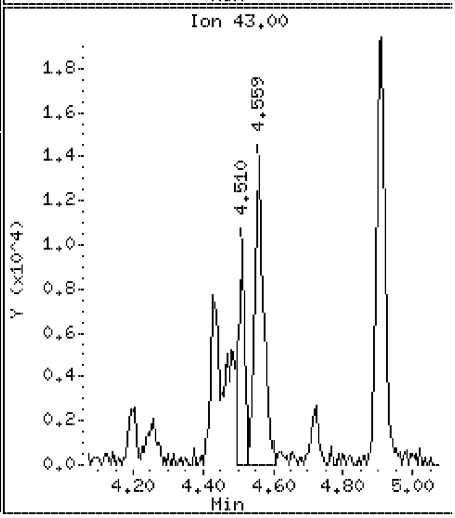












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

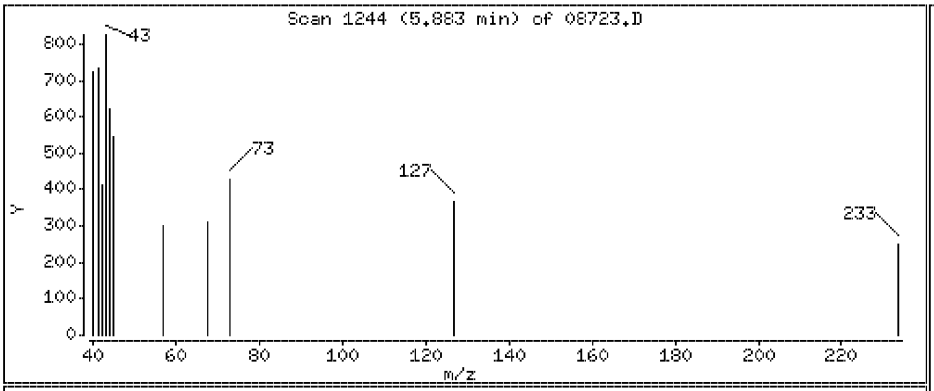
Operator: NCK

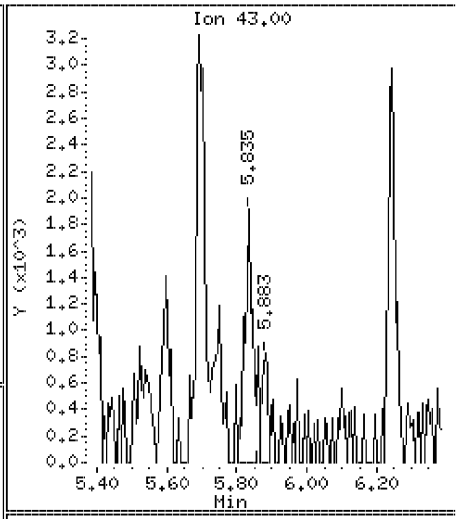
Column phase: J&W DB-5

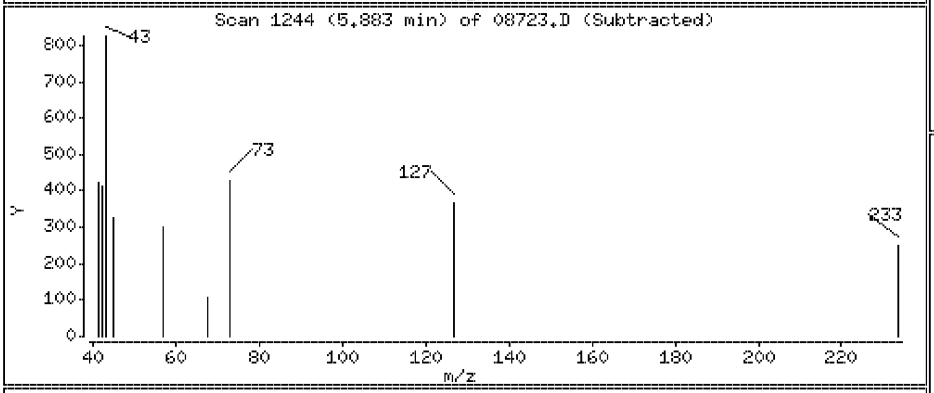
Column diameter: 0.32

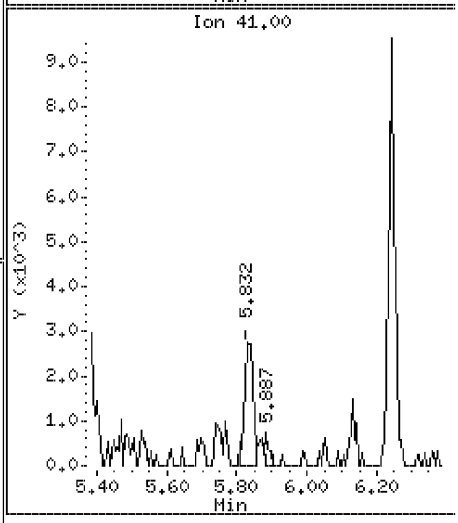
49 Heptane

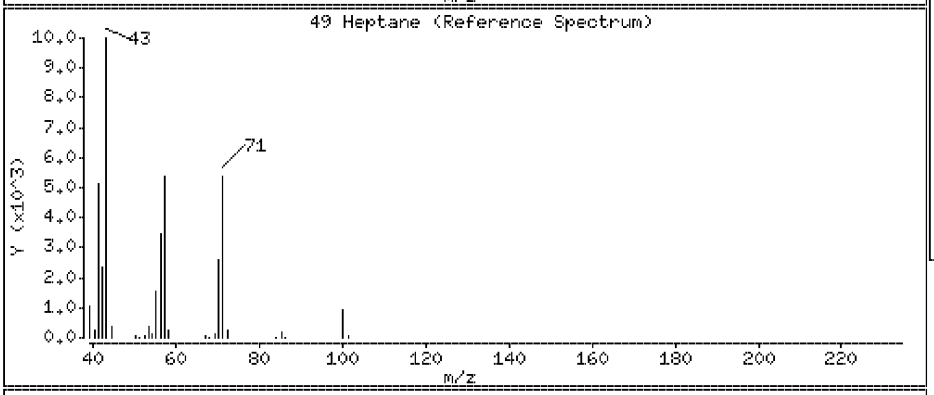
Concentration: 0.0186 ppbv

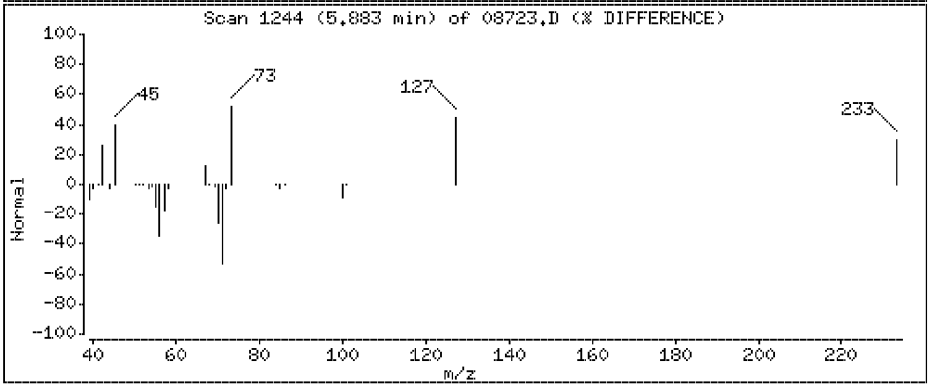












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

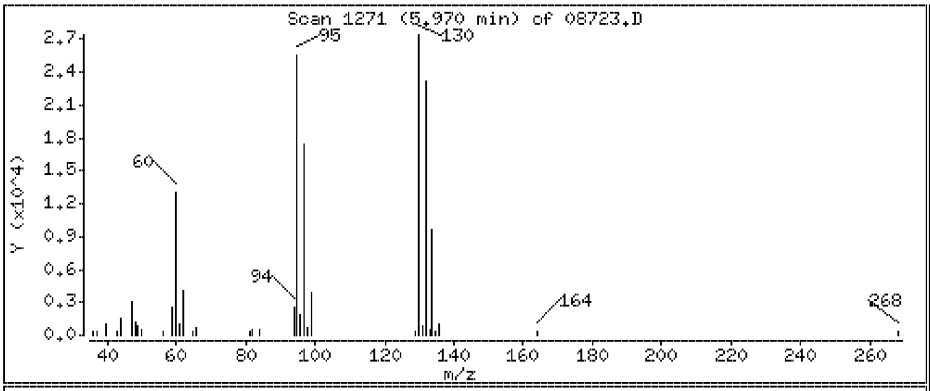
Operator: NCK

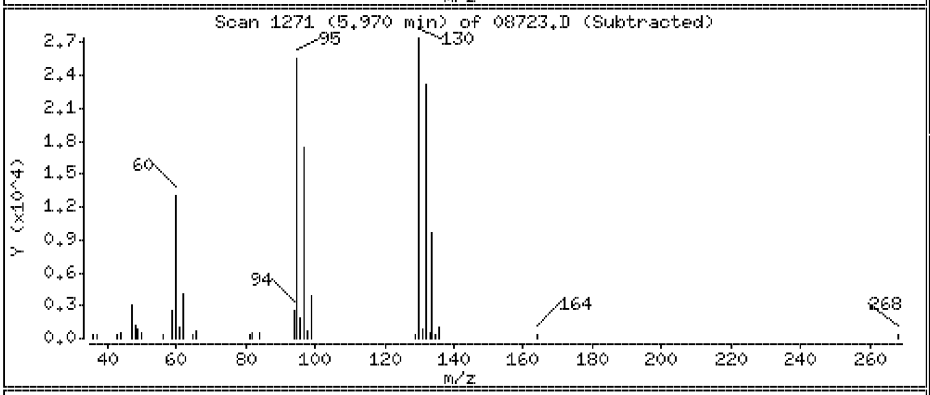
Column phase: J&W DB-5

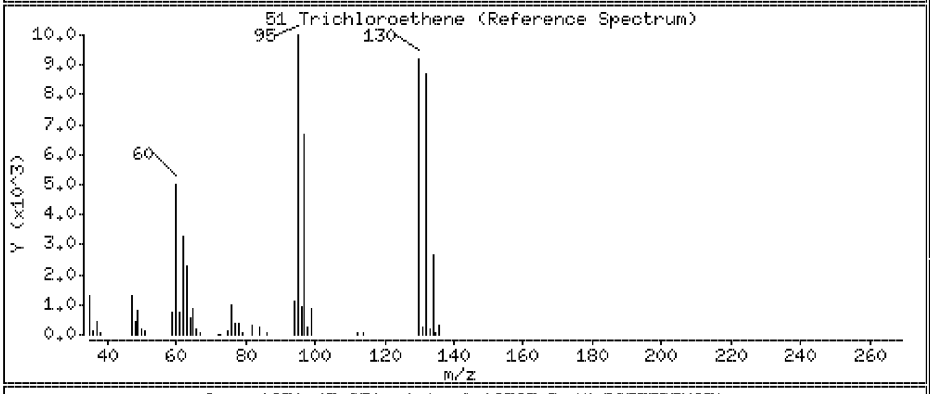
Column diameter: 0.32

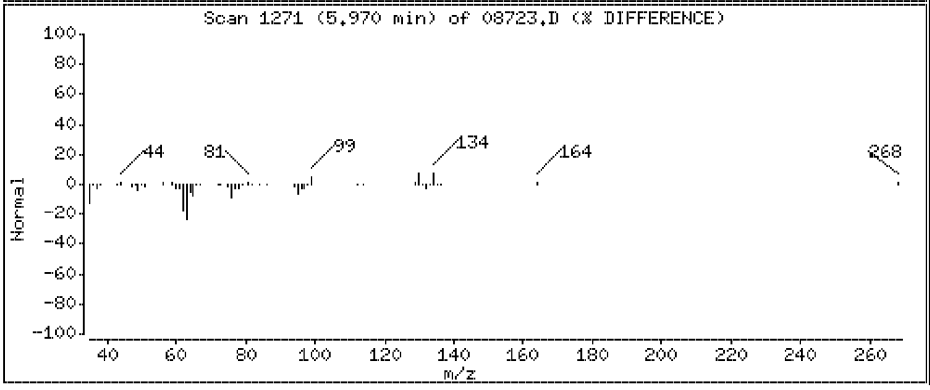
51 Trichloroethene

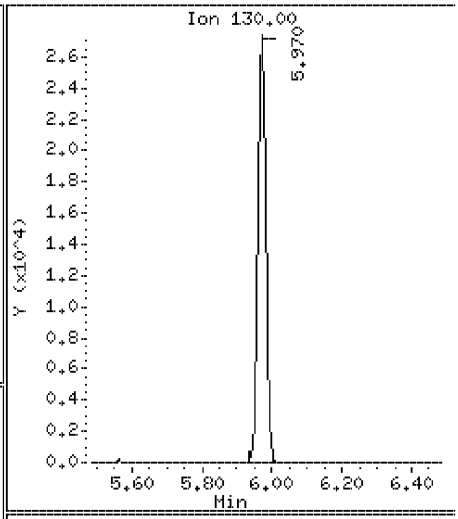
Concentration: 0.983 ppbv

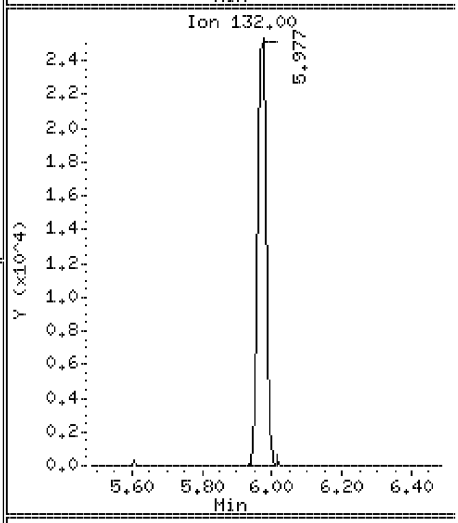


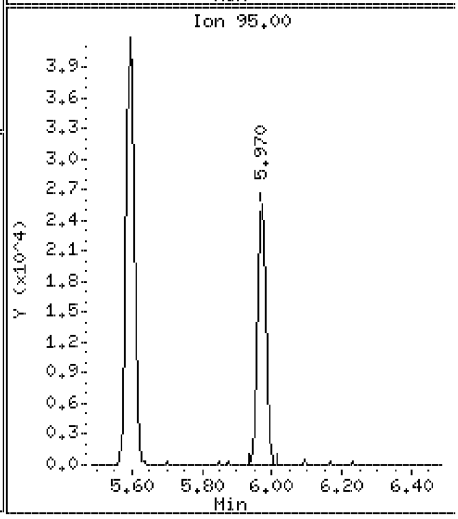












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

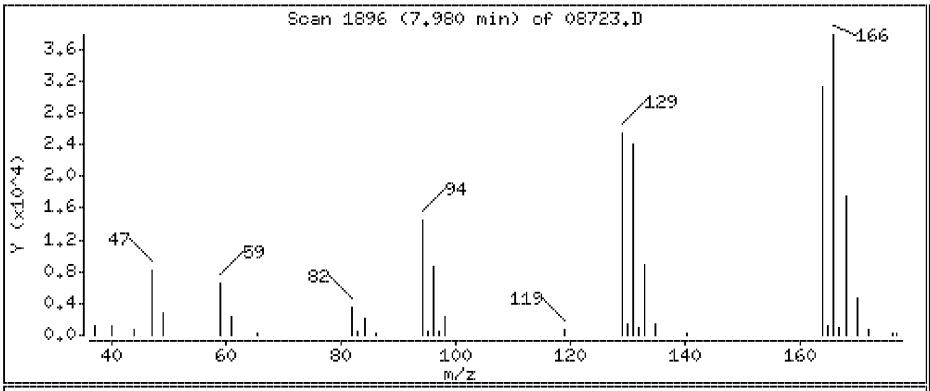
Operator: NCK

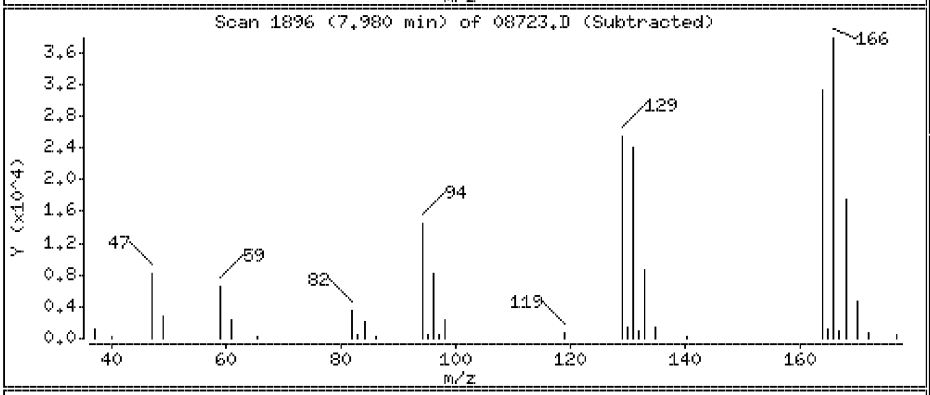
Column phase: J&W DB-5

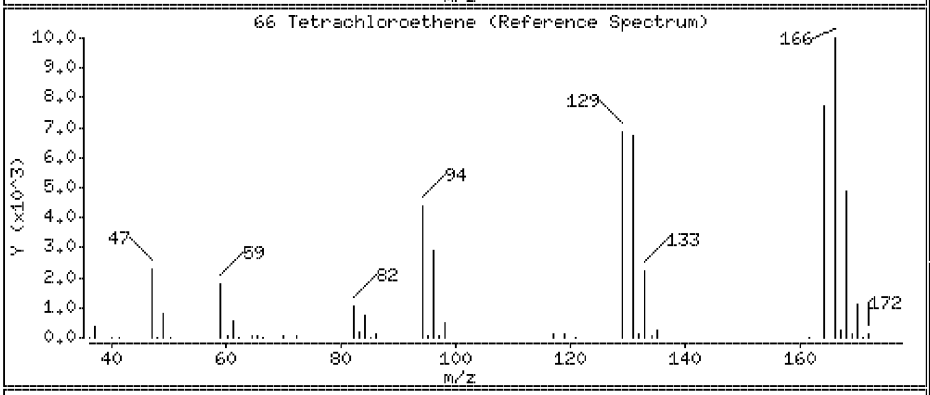
Column diameter: 0.32

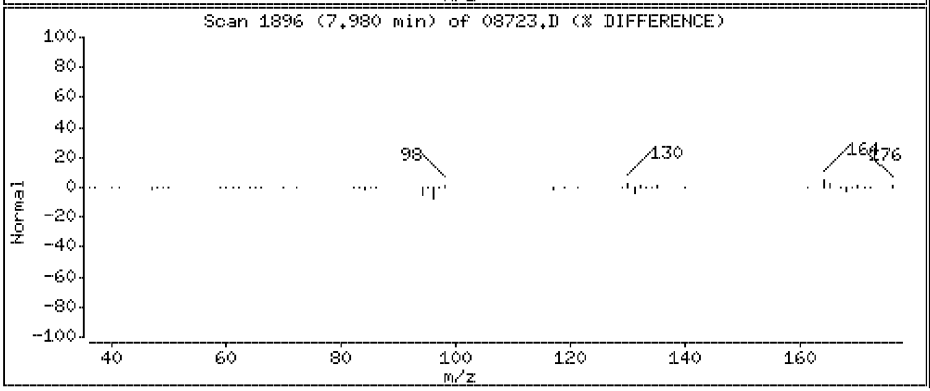
66 Tetrachloroethene

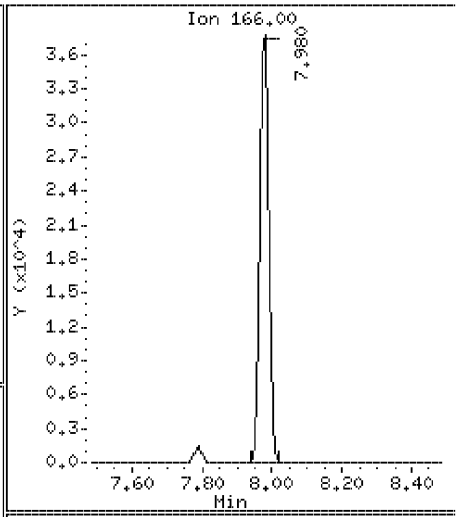
Concentration: 1.12 ppbv

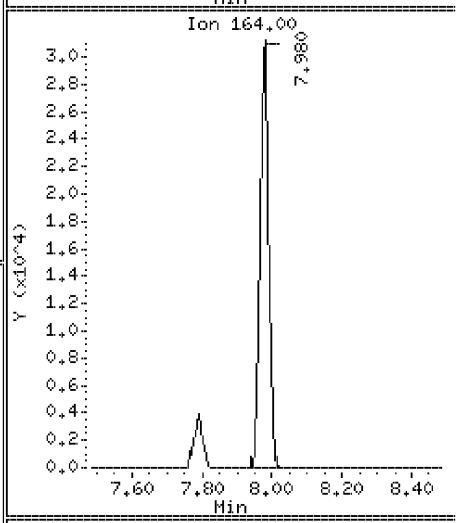


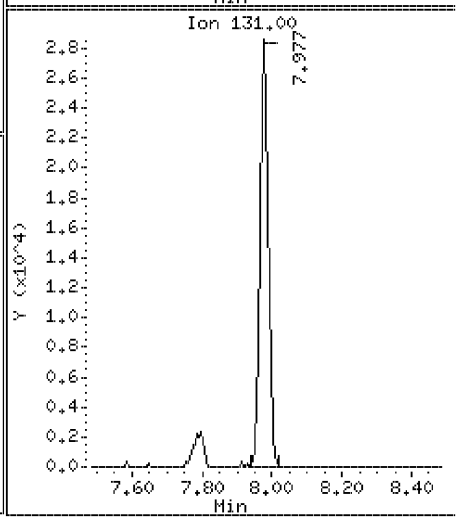












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08723.D

Date : 28-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

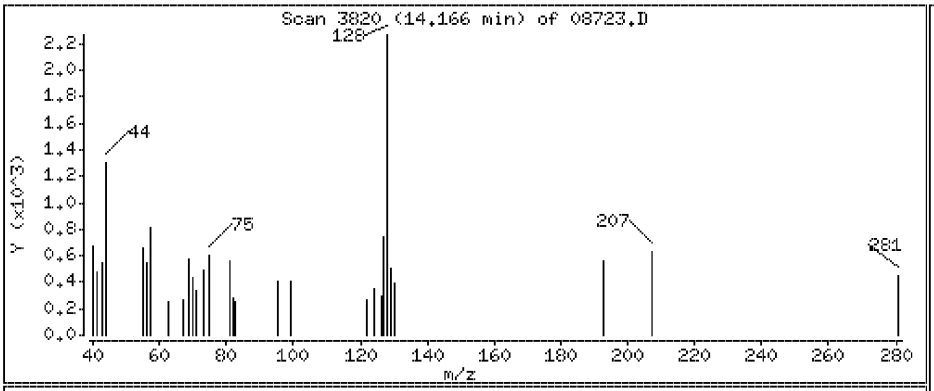
Operator: NCK

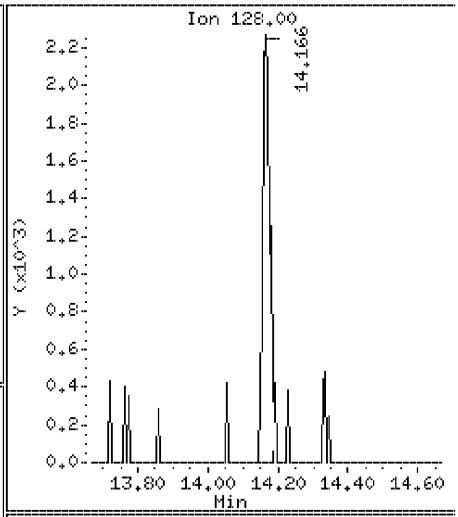
Column phase: J&W DB-5

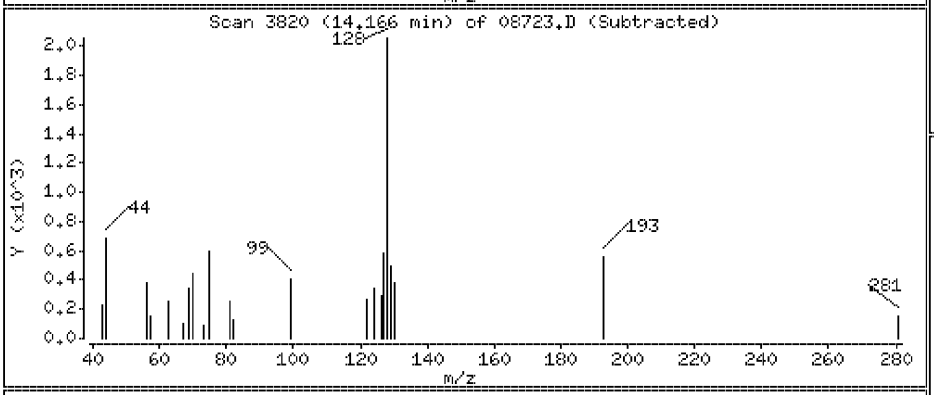
Column diameter: 0.32

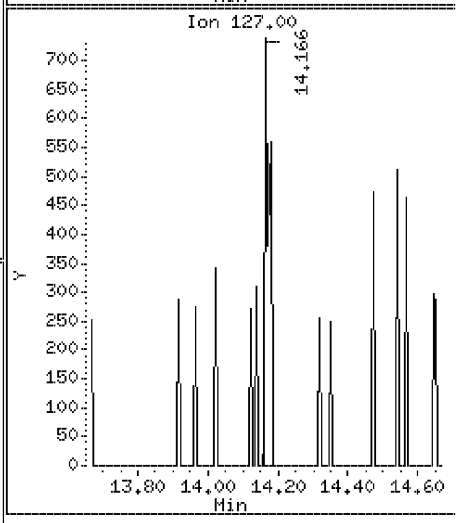
94 Naphthalene

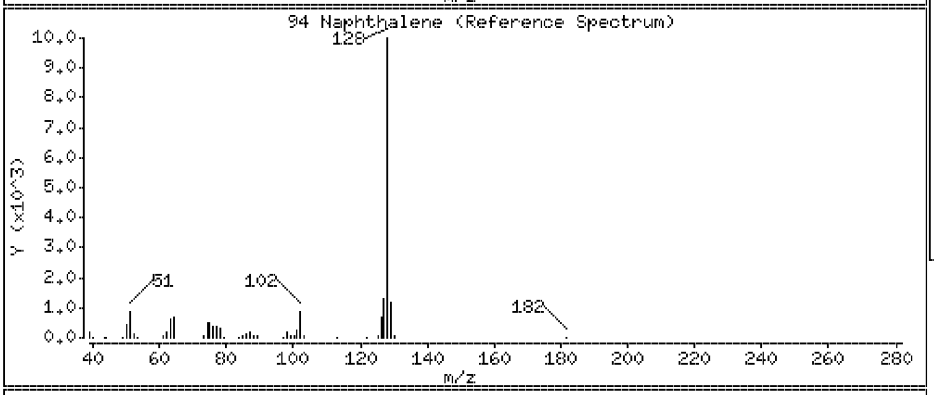
Concentration: 0.628 ppbv

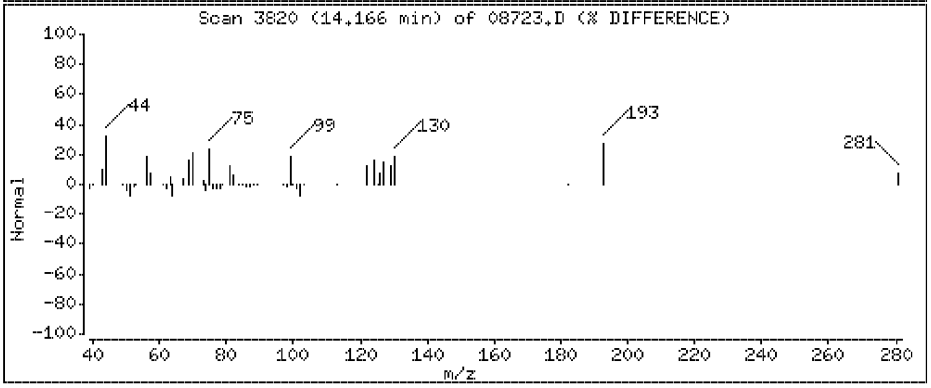












Data File: \\192.168.10.12\chem\10airB.i\032817.b/08723.D
Injection Date: 28-MAR-2017 20:43
Instrument: 10airB.i
Lab Sample ID: 10381335018
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_10_20170307 **Lab ID: 10381335018** Collected: 03/07/17 13:25 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**22.4**	ug/m3	4.2	0.40	1.68		03/28/17 20:43	67-63-0	
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/28/17 20:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/28/17 20:43	79-34-5	
Tetrachloroethene	**7.7**	ug/m3	1.2	0.47	1.68		03/28/17 20:43	127-18-4	
Toluene	**<0.26**	ug/m3	1.3	0.26	1.68		03/28/17 20:43	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/28/17 20:43	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/28/17 20:43	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/28/17 20:43	79-00-5	
Trichloroethene	**5.4**	ug/m3	0.92	0.46	1.68		03/28/17 20:43	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	1.9	0.22	1.68		03/28/17 20:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.70J**	ug/m3	2.7	0.51	1.68		03/28/17 20:43	76-13-1	
1,2,4-Trimethylbenzene	**<0.21**	ug/m3	1.7	0.21	1.68		03/28/17 20:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/28/17 20:43	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/28/17 20:43	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/28/17 20:43	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/28/17 20:43	95-47-6	

Sample: VP-108_20_20170307 **Lab ID: 10381335019** Collected: 03/07/17 12:09 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**12.6**	ug/m3	4.2	1.5	1.75		03/28/17 21:14	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/28/17 21:14	107-05-1	
Benzene	**0.34J**	ug/m3	0.57	0.21	1.75		03/28/17 21:14	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/28/17 21:14	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/28/17 21:14	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/28/17 21:14	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/28/17 21:14	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/28/17 21:14	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/28/17 21:14	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/28/17 21:14	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/28/17 21:14	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/28/17 21:14	75-45-6	
Chloroethane	**0.55J**	ug/m3	0.94	0.34	1.75		03/28/17 21:14	75-00-3	
Chloroform	**0.92**	ug/m3	0.87	0.33	1.75		03/28/17 21:14	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/28/17 21:14	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 21:14	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/28/17 21:14	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/28/17 21:14	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/28/17 21:14	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/28/17 21:14	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/28/17 21:14	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/28/17 21:14	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_20_20170307 **Lab ID: 10381335019** Collected: 03/07/17 12:09 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/28/17 21:14	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.84	1.75		03/28/17 21:14	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/28/17 21:14	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/28/17 21:14	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 21:14	75-35-4	
cis-1,2-Dichloroethene	**33.8**	ug/m3	1.4	0.43	1.75		03/28/17 21:14	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/28/17 21:14	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/28/17 21:14	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/28/17 21:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	4.0	0.46	1.75		03/28/17 21:14	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/28/17 21:14	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 21:14	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/28/17 21:14	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/28/17 21:14	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/28/17 21:14	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/28/17 21:14	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.3	0.62	1.75		03/28/17 21:14	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/28/17 21:14	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/28/17 21:14	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/28/17 21:14	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 21:14	108-87-2	
Methylene Chloride	**5.8J**	ug/m3	6.2	0.95	1.75		03/28/17 21:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/28/17 21:14	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/28/17 21:14	1634-04-4	
2-Propanol	**4.3J**	ug/m3	4.4	0.42	1.75		03/28/17 21:14	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/28/17 21:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/28/17 21:14	79-34-5	
Tetrachloroethene	**708**	ug/m3	1.2	0.49	1.75		03/28/17 21:14	127-18-4	
Tetrachloroethene	**958**	ug/m3	12.1	4.9	17.5		03/31/17 10:50	127-18-4	
Toluene	**1.3J**	ug/m3	1.3	0.27	1.75		03/28/17 21:14	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/28/17 21:14	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/28/17 21:14	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/28/17 21:14	79-00-5	
Trichloroethene	**69.4**	ug/m3	0.96	0.48	1.75		03/28/17 21:14	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.0	0.23	1.75		03/28/17 21:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**10.3**	ug/m3	2.8	0.53	1.75		03/28/17 21:14	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/28/17 21:14	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/28/17 21:14	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/28/17 21:14	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/28/17 21:14	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/28/17 21:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D
Report Date: 03-Apr-2017 15:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08724.D
Lab Smp Id: 10381335019
Inj Date : 28-MAR-2017 21:14
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 24
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.031	3.028	(0.542)	43641	0.32629	0.571(M)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						(D)
11	Chloroethane	64	3.436	3.442	(0.614)	2264	0.11733	0.205	
12	Ethanol	45	3.539	3.539	(0.633)	63057	3.91400	6.85	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.565	3.581	(0.637)	8079	0.17622	0.308(QMH)	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.635	3.658	(0.650)	15661	0.16728	0.293	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.713	3.713	(0.664)	188870	2.97528	5.21	
19	Isopropyl Alcohol	45	3.767	3.764	(0.674)	70526	0.98704	1.73	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.918	3.938	(0.701)	57017	0.75841	1.33	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D
Report Date: 03-Apr-2017 15:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.963	3.999	(0.709)	45774	0.94062	1.65	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.471	4.478	(0.799)	908651	9.96910	9.97	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.565	4.574	(0.816)	13872	0.19300	0.338(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.693	4.722	(0.839)	193086	4.79088	8.38(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.806	4.838	(0.859)	8441	0.10558	0.185	
	40 Tetrahydrofuran	42	5.012	4.992	(0.896)	7811	0.14061	0.246(QH)	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.442	5.462	(0.973)	8421	0.06009	0.105	
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.594	5.610	(1.000)	2429742	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.967	5.986	(1.067)	534082	7.26154	12.7	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.063	7.073	(1.263)	2019159	9.85729	9.86	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.140	7.150	(1.276)	31835	0.18667	0.327	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	5566392	58.7061	103(A)	
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	1447778	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D
Report Date: 03-Apr-2017 15:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	645837	9.39692	9.40	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						(D)
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.169	(1.640)	11529	0.52230	0.914	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D
Report Date: 03-Apr-2017 15:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08724.D
Lab Smp Id: 10381335019
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

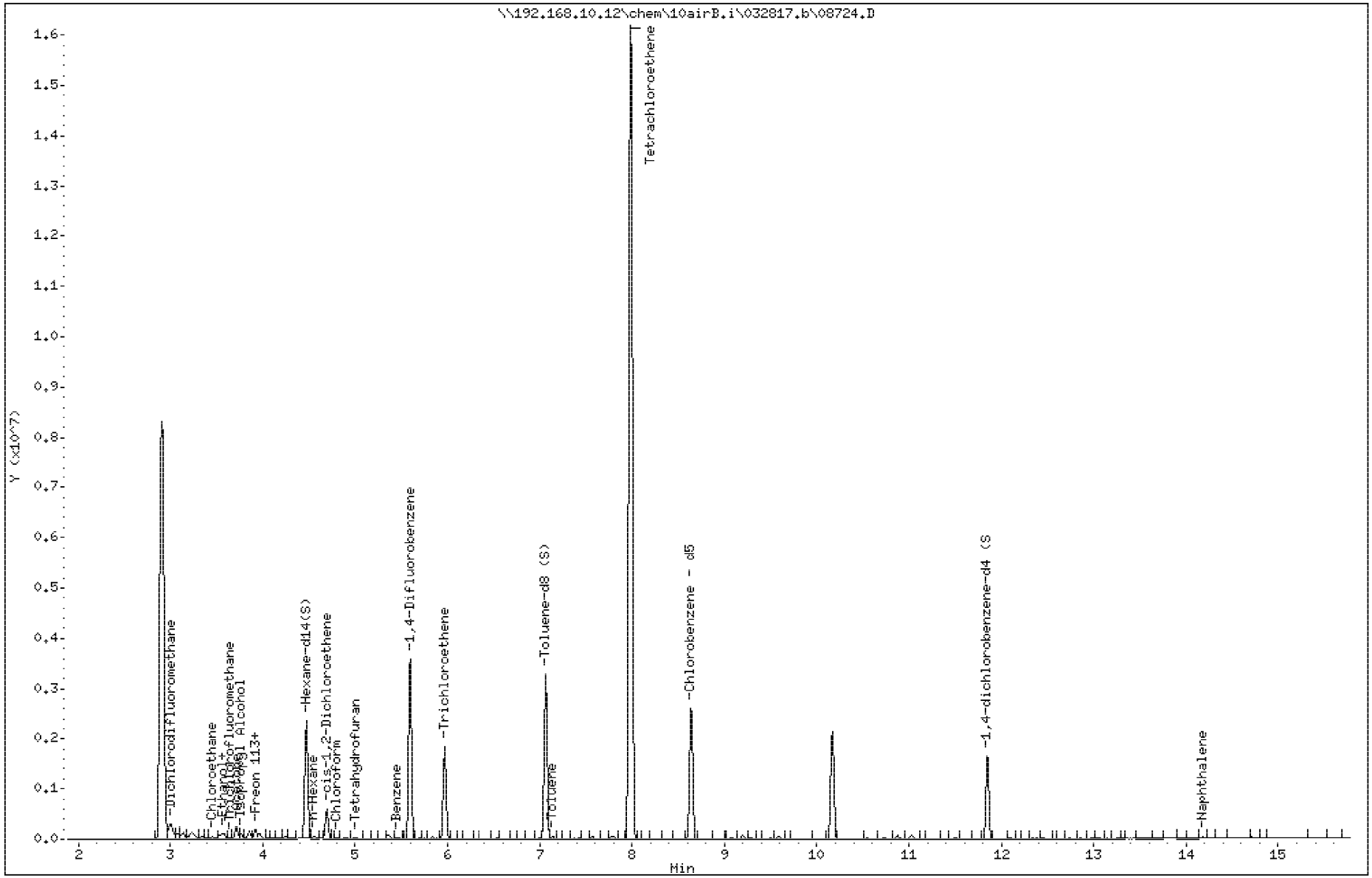
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2429742	-14.20
67 Chlorobenzene - d	1804482	1082689	2526275	1447778	-19.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.29
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D
Date : 28-MAR-2017 21:14
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

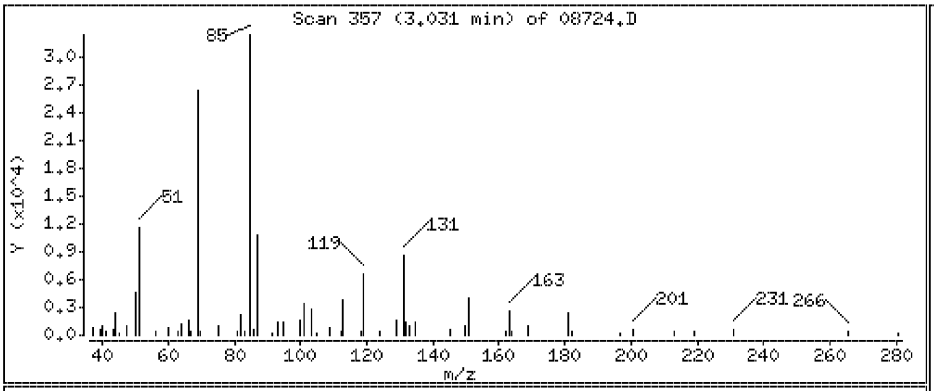
Operator: NCK

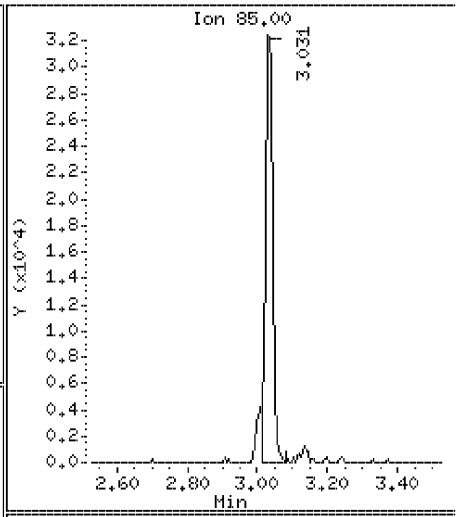
Column phase: J&W DB-5

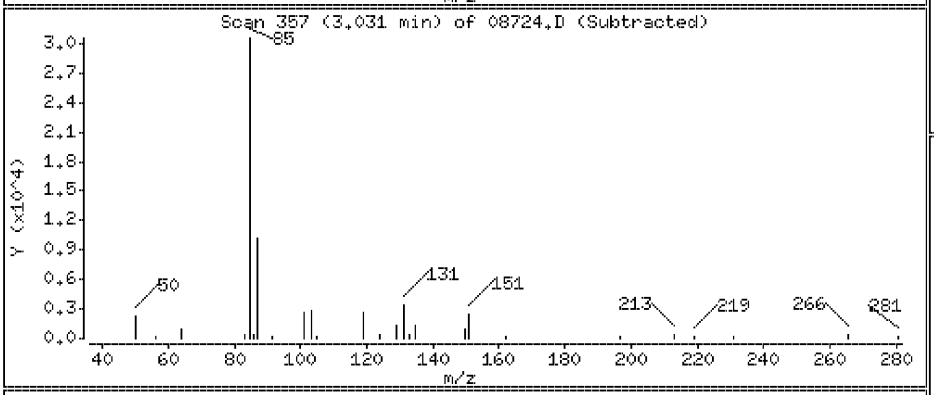
Column diameter: 0.32

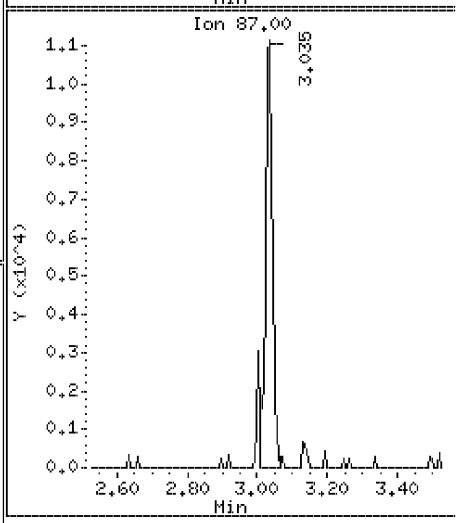
5 Dichlorodifluoromethane

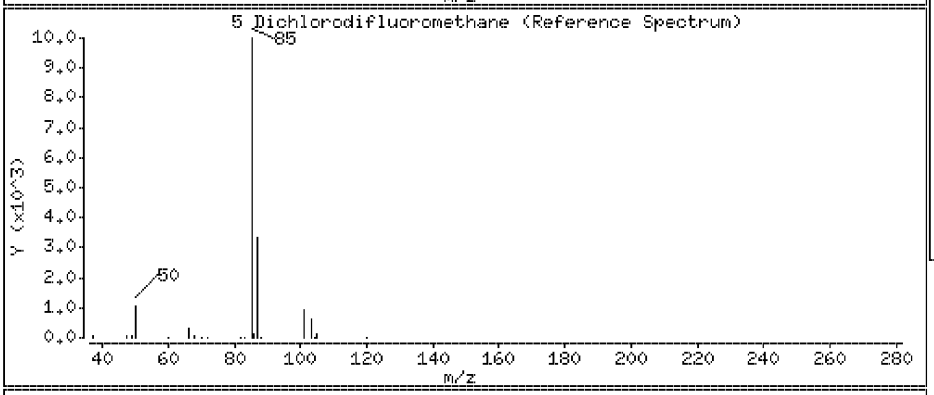
Concentration: 0.571 ppbv

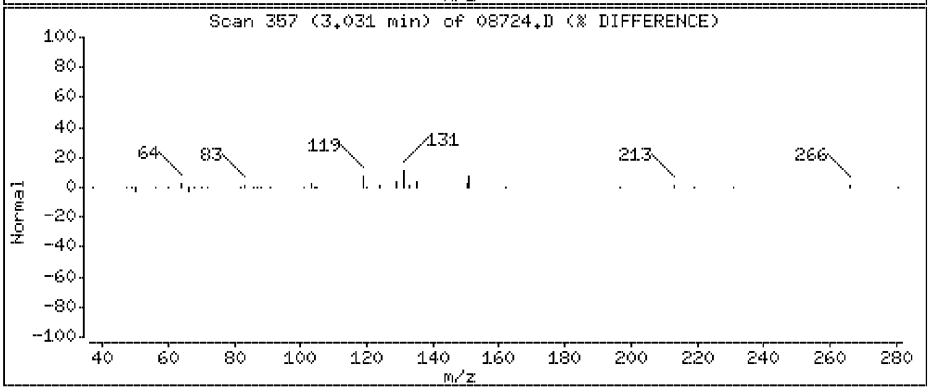












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

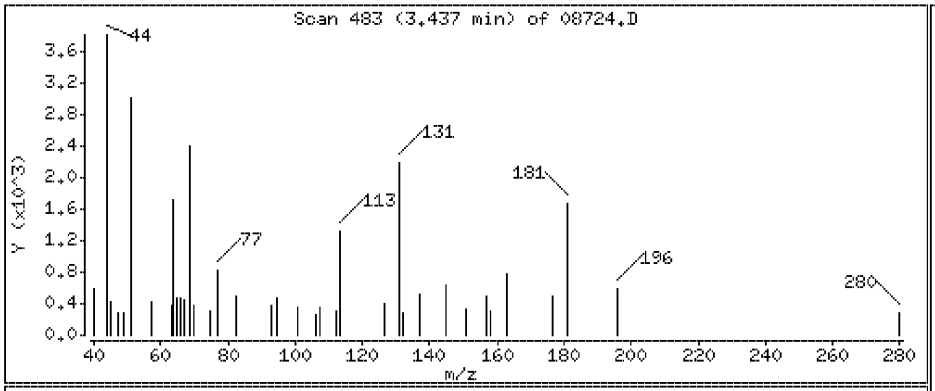
Operator: NCK

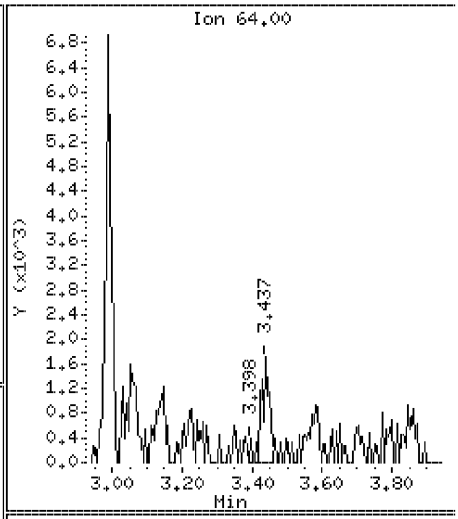
Column phase: J&W DB-5

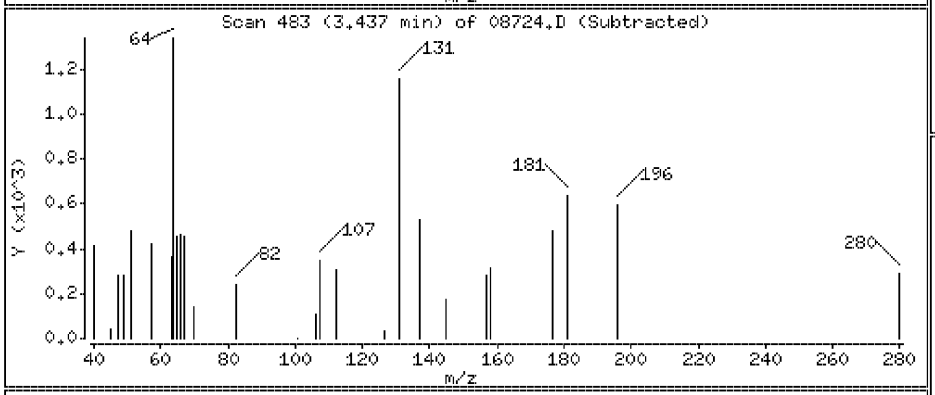
Column diameter: 0.32

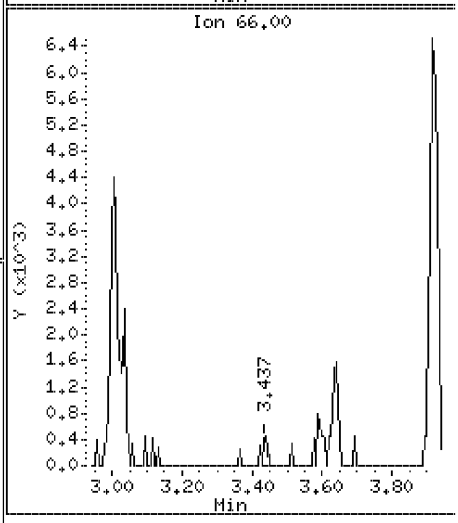
11 Chloroethane

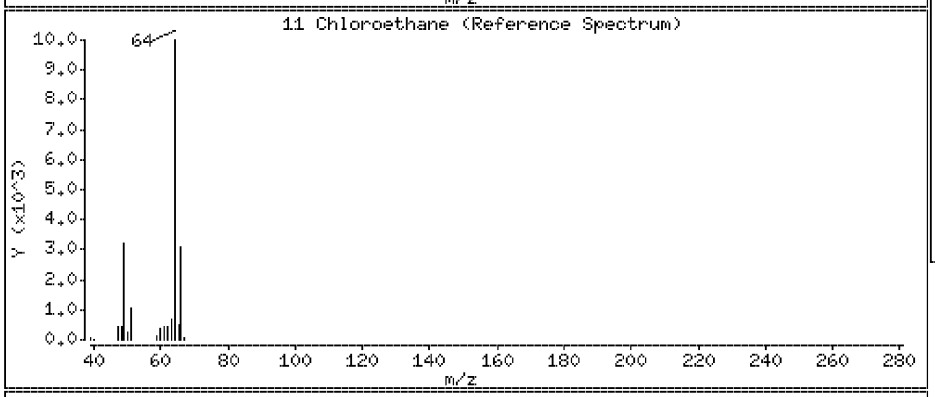
Concentration: 0.205 ppbv

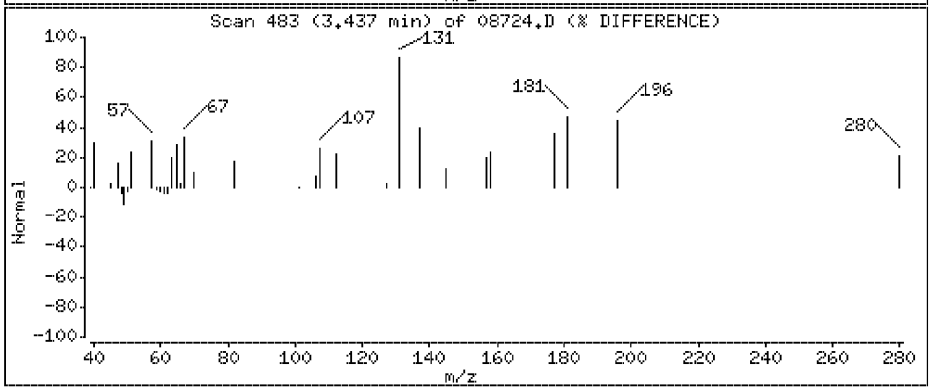












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

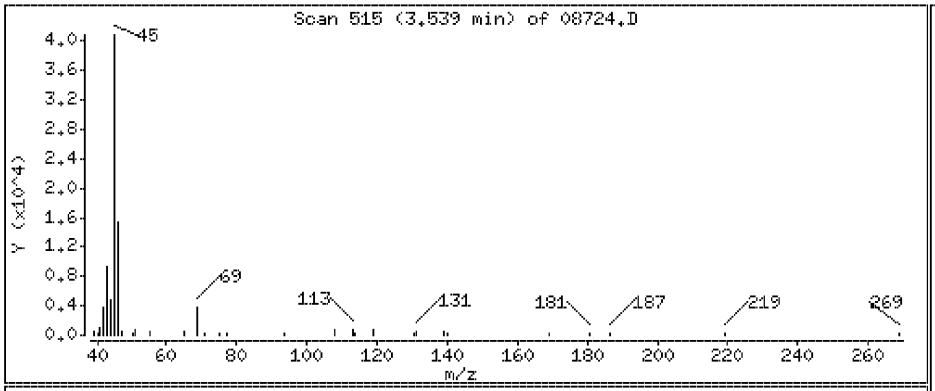
Operator: NCK

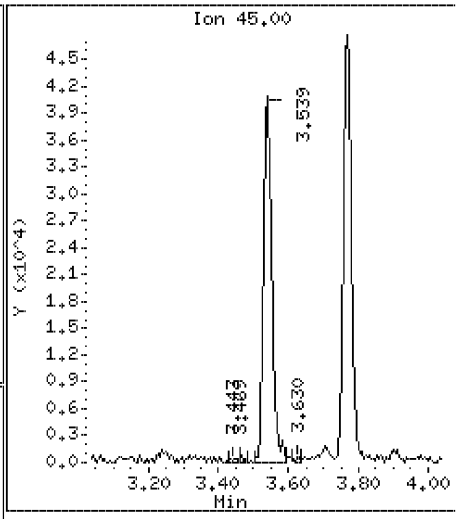
Column phase: J&W DB-5

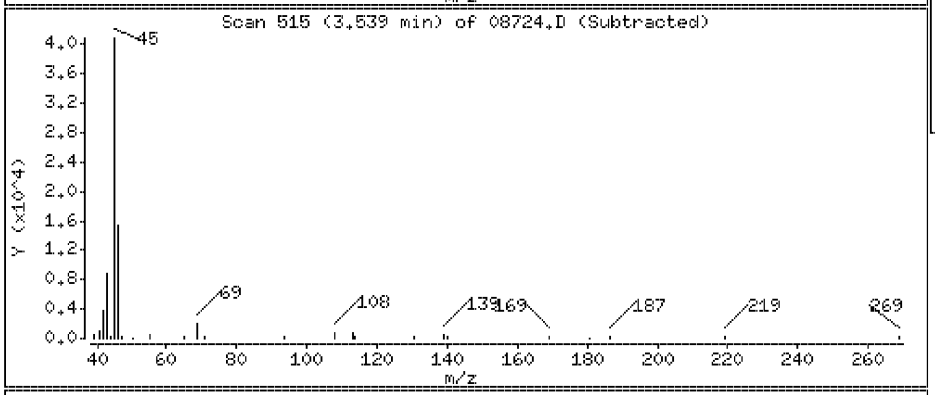
Column diameter: 0.32

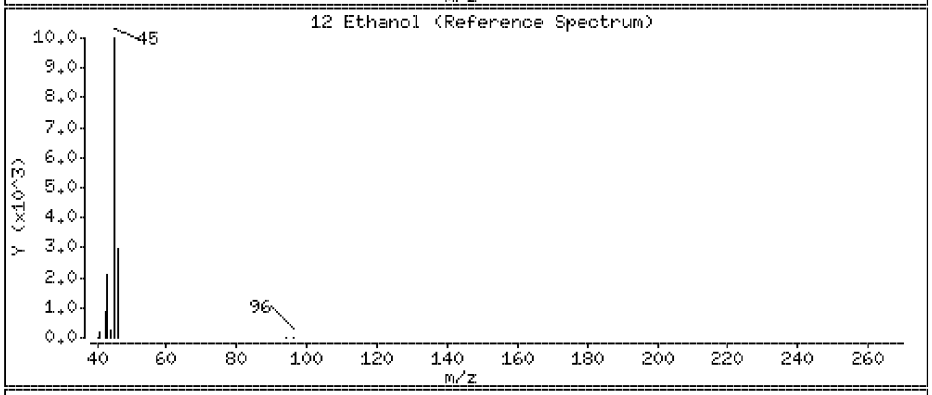
12 Ethanol

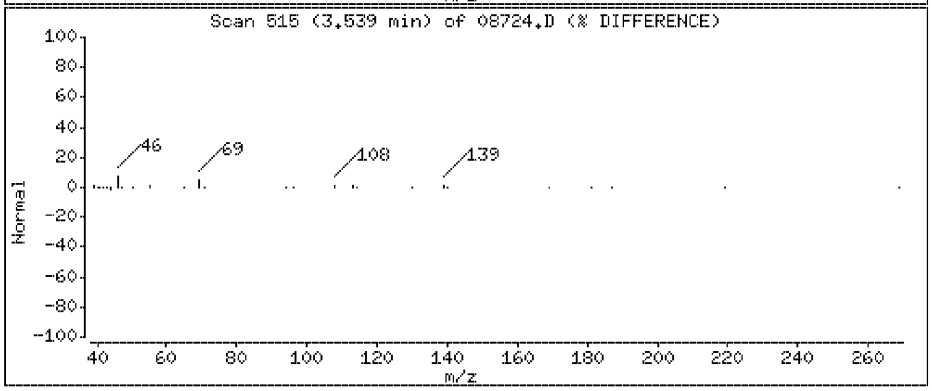
Concentration: 6.85 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

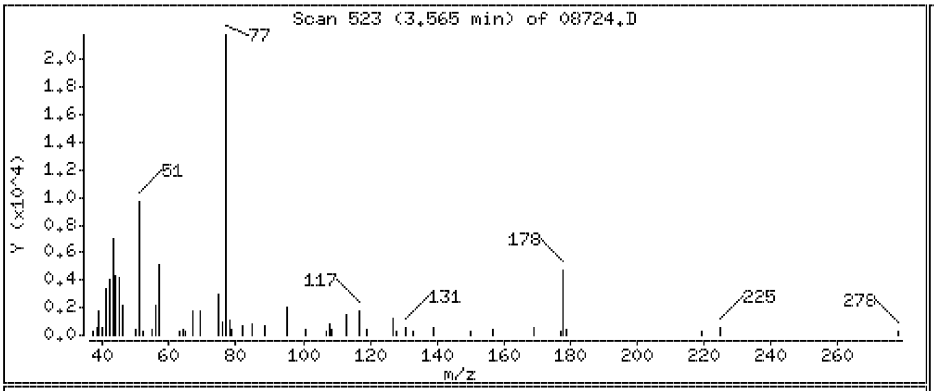
Operator: NCK

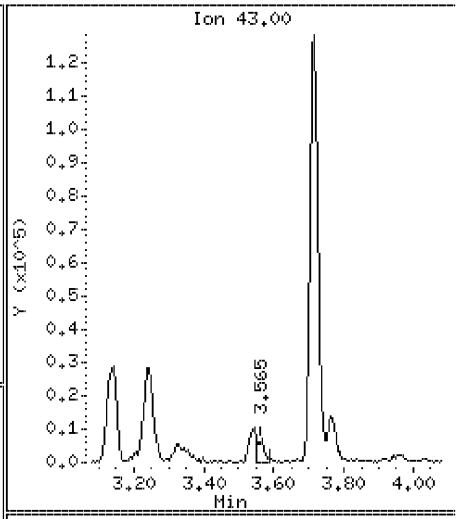
Column phase: J&W DB-5

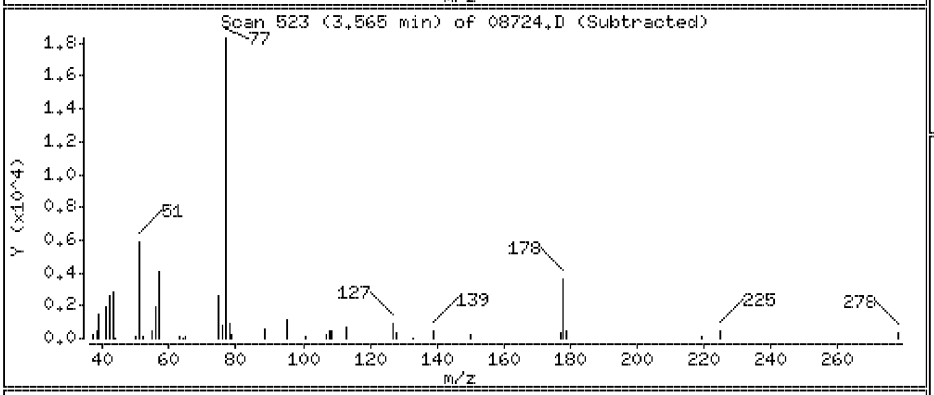
Column diameter: 0.32

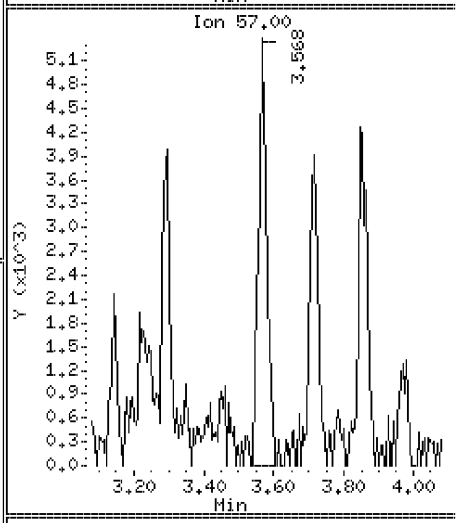
14 Isopentane

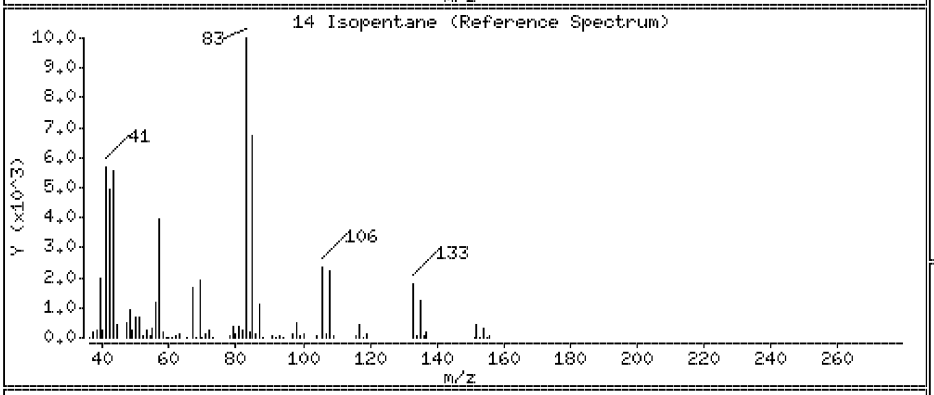
Concentration: 0.308 ppbv

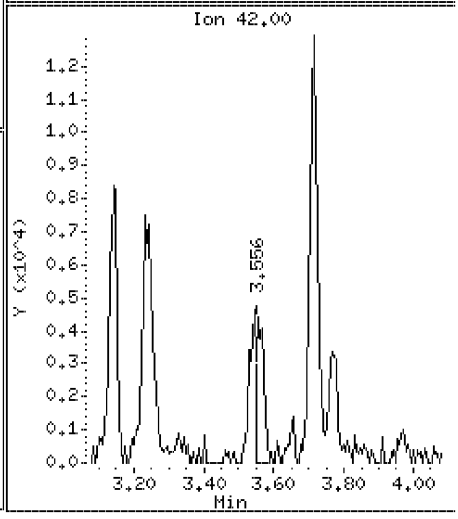


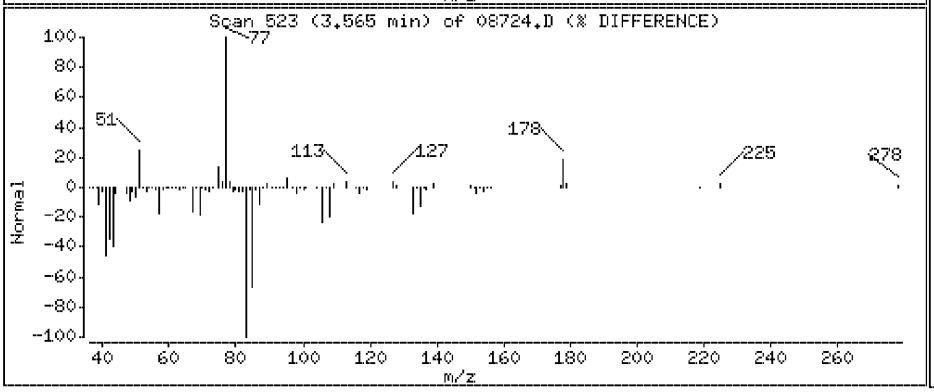












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

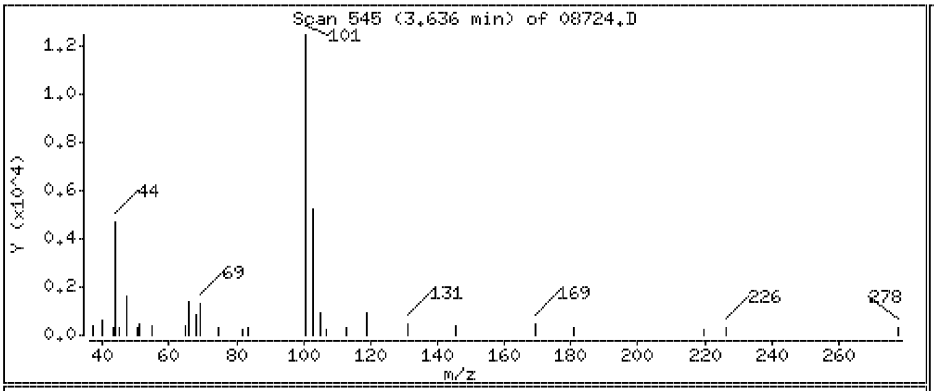
Operator: NCK

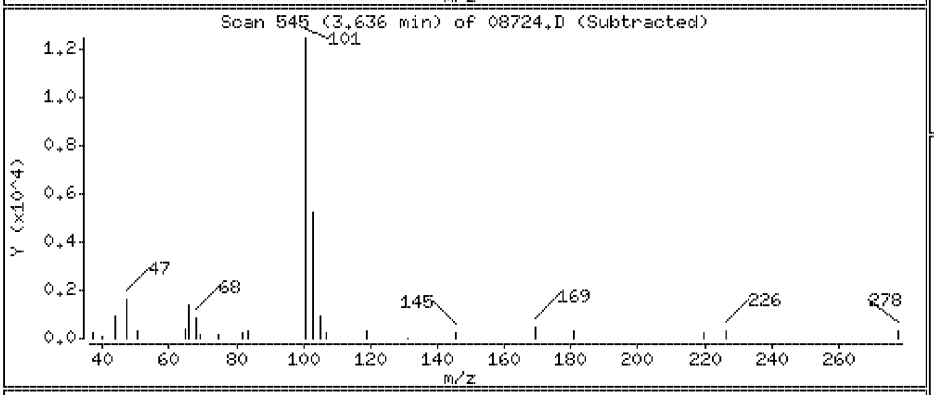
Column phase: J&W DB-5

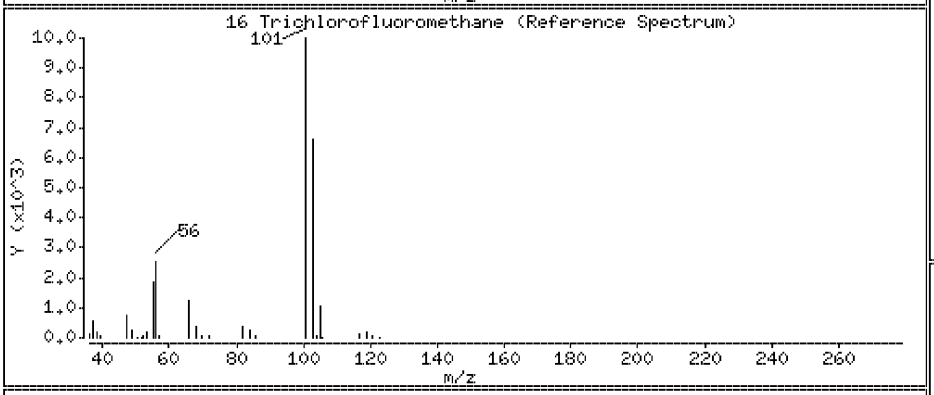
Column diameter: 0.32

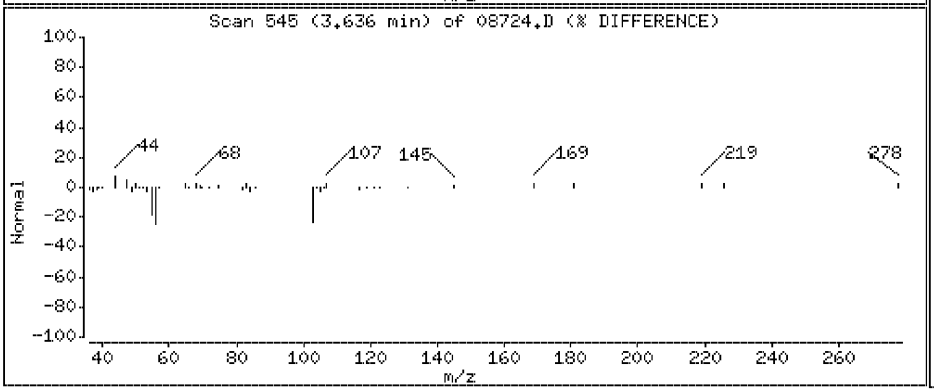
16 Trichlorofluoromethane

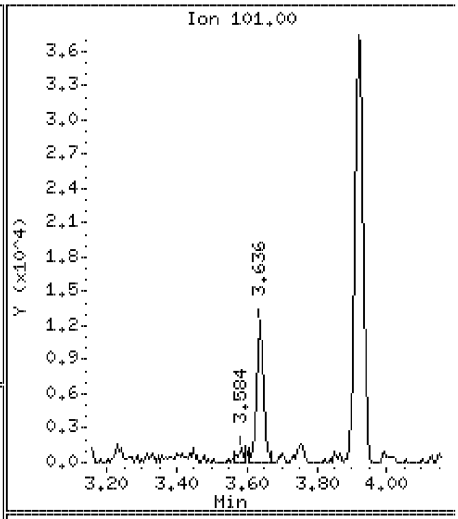
Concentration: 0.293 ppbv

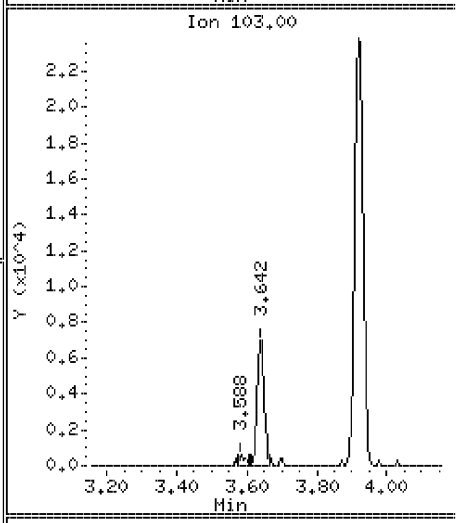


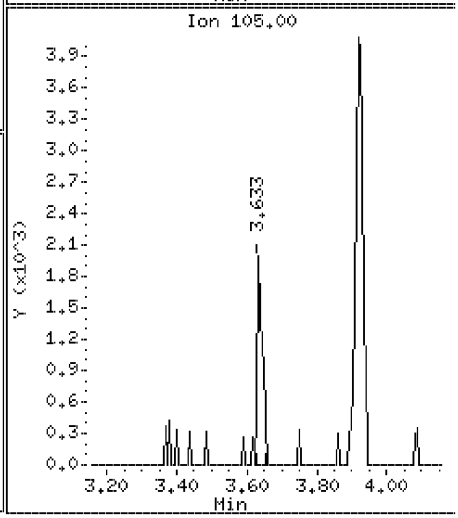












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

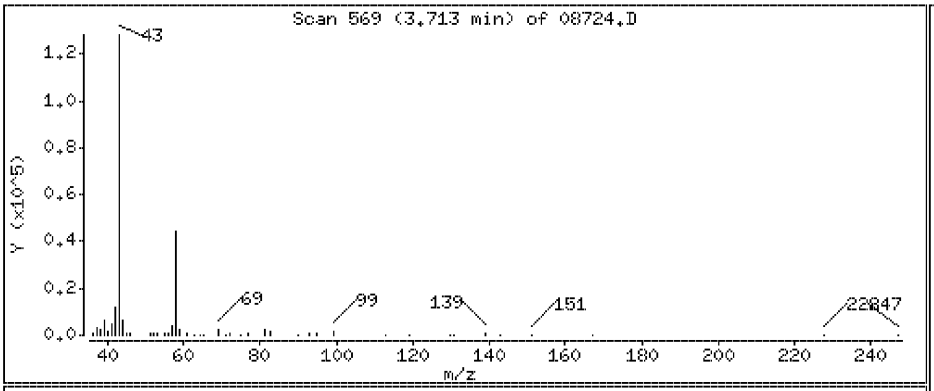
Operator: NCK

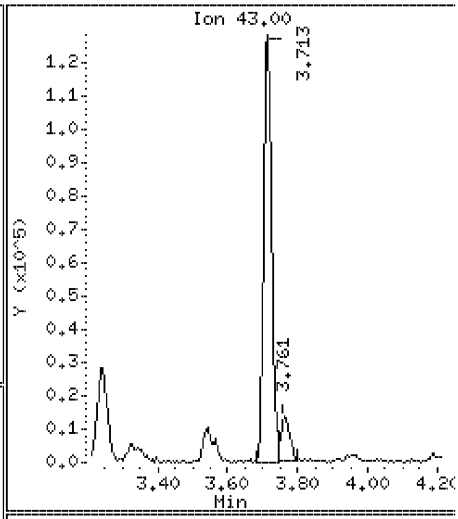
Column phase: J&W DB-5

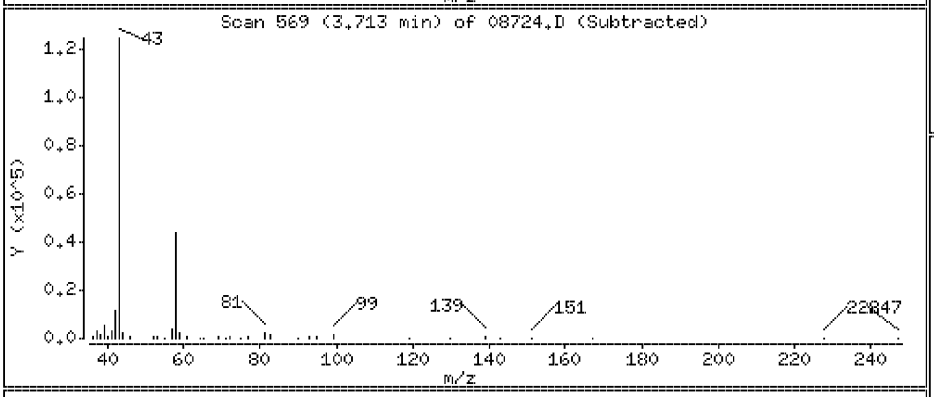
Column diameter: 0.32

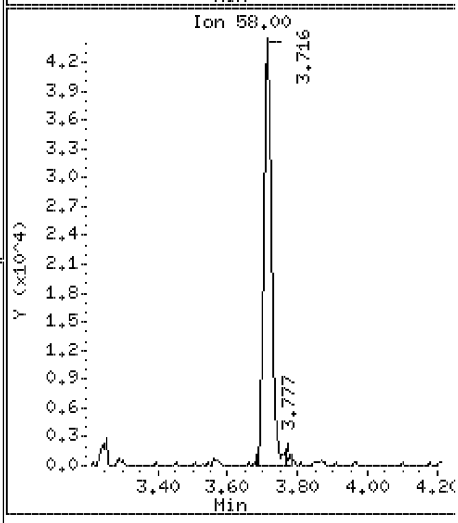
18 Acetone

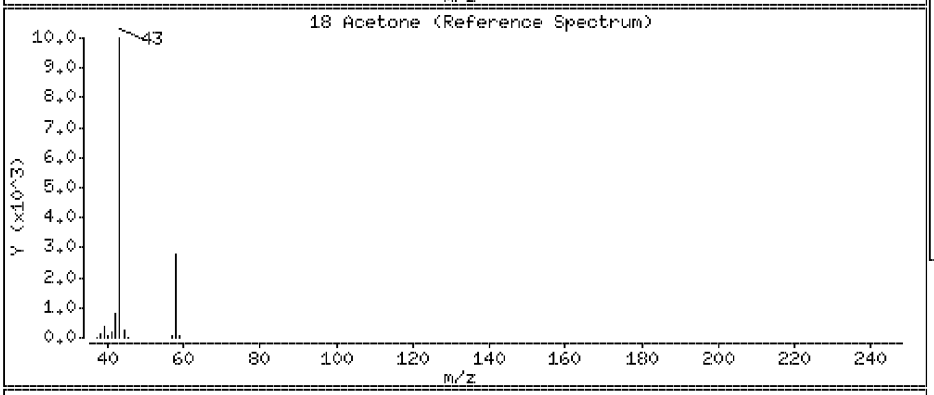
Concentration: 5.21 ppbv

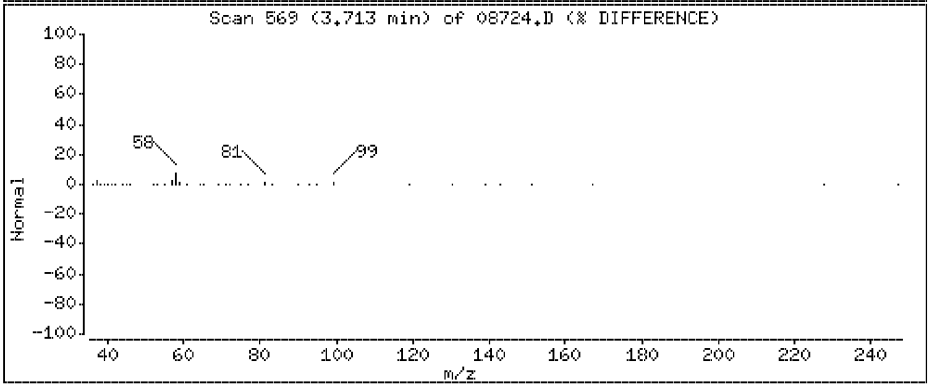












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

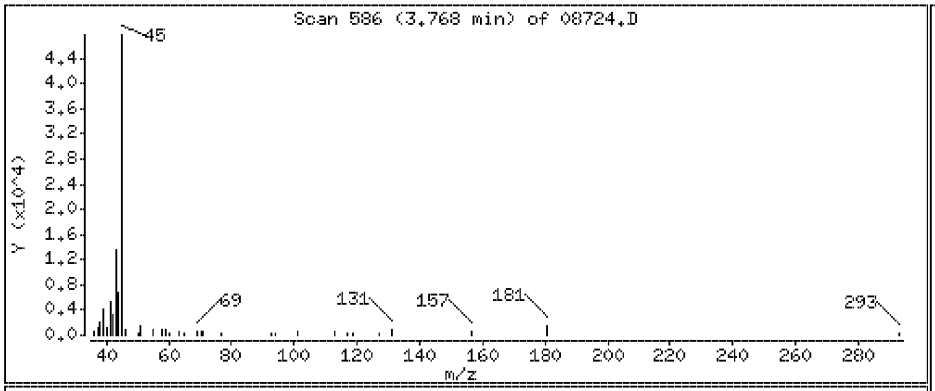
Operator: NCK

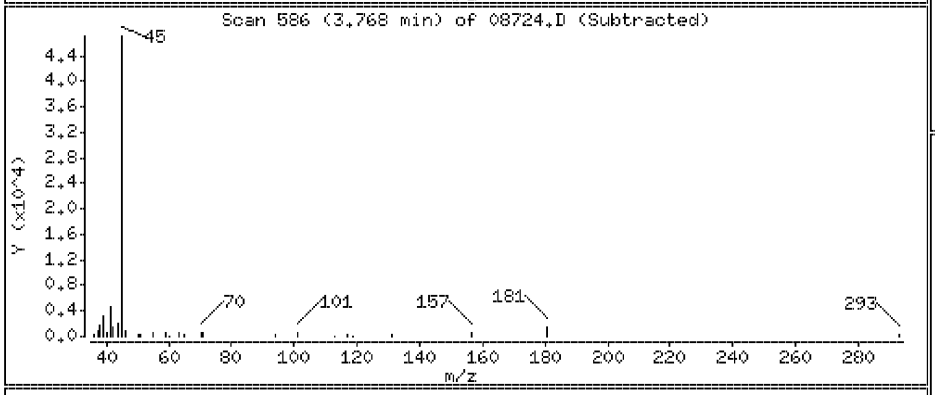
Column phase: J&W DB-5

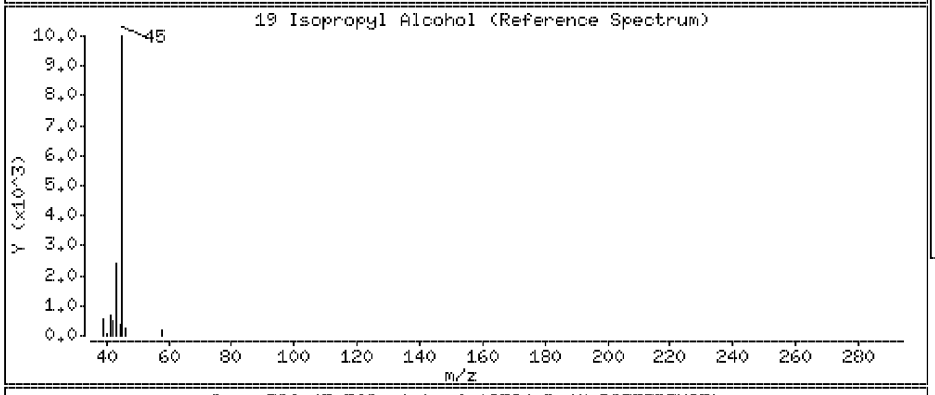
Column diameter: 0.32

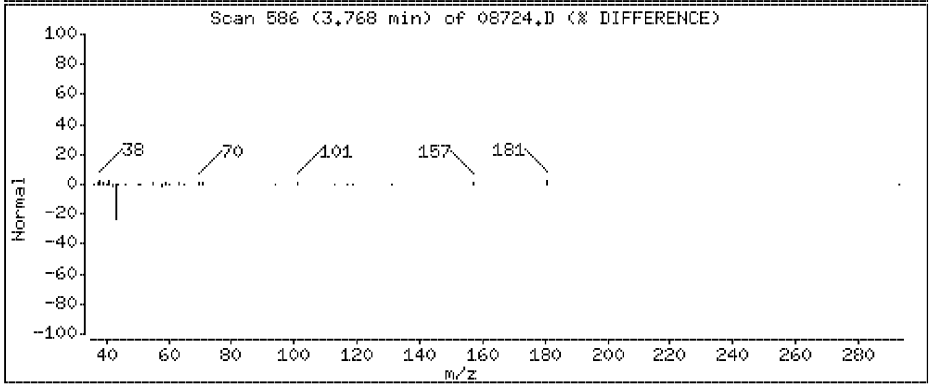
19 Isopropyl Alcohol

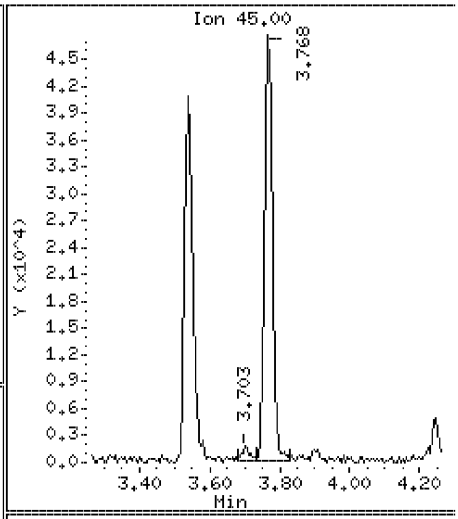
Concentration: 1.73 ppbv

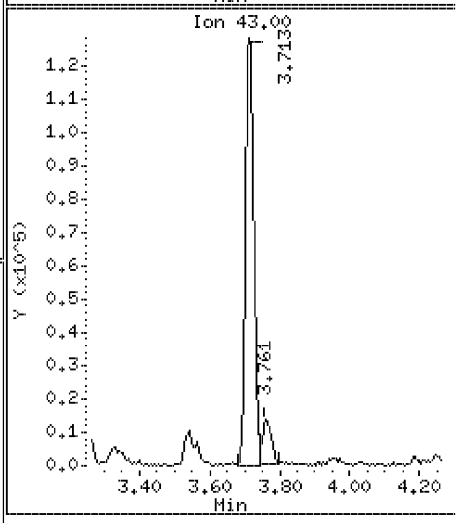












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

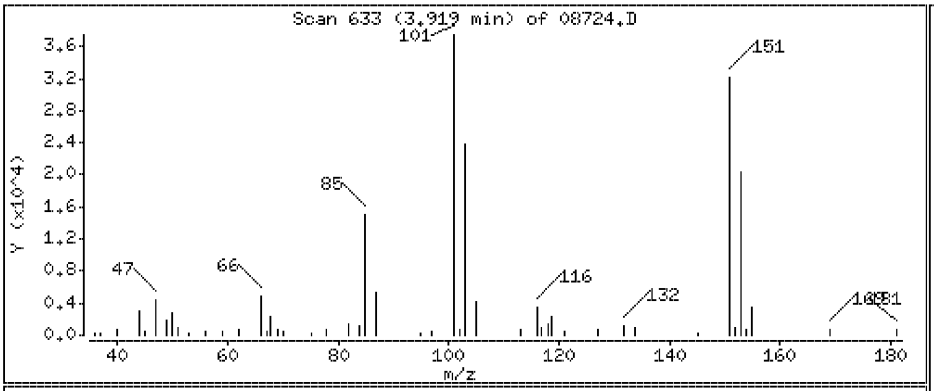
Operator: NCK

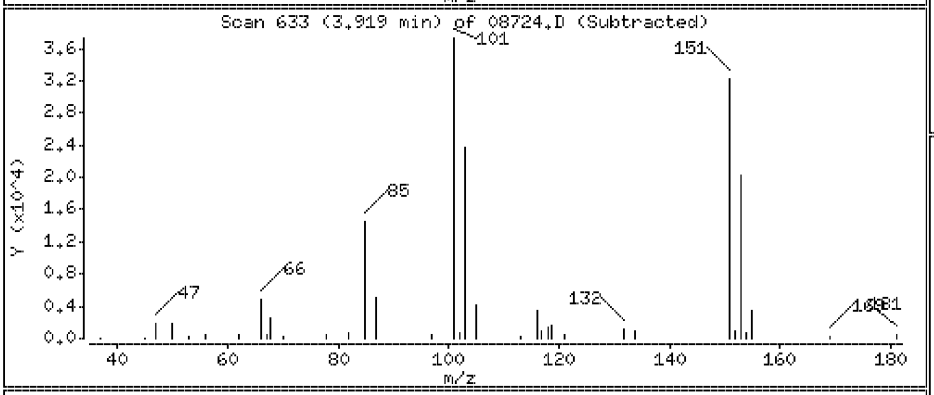
Column phase: J&W DB-5

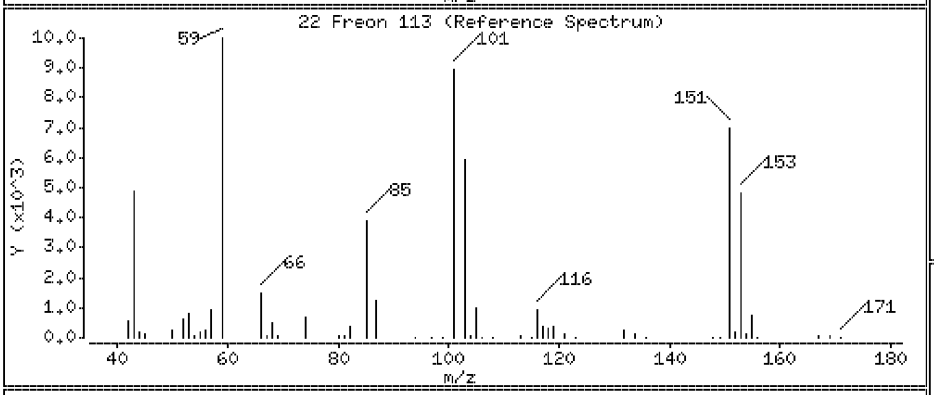
Column diameter: 0.32

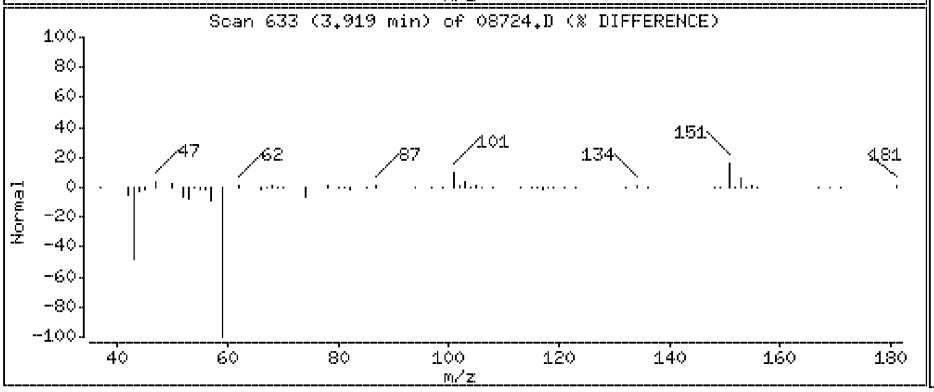
22 Freon 113

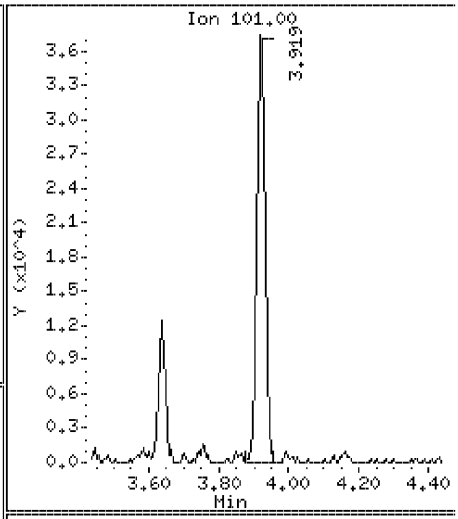
Concentration: 1.33 ppbv

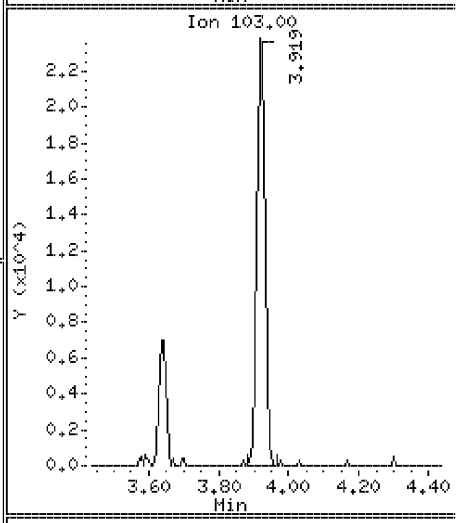


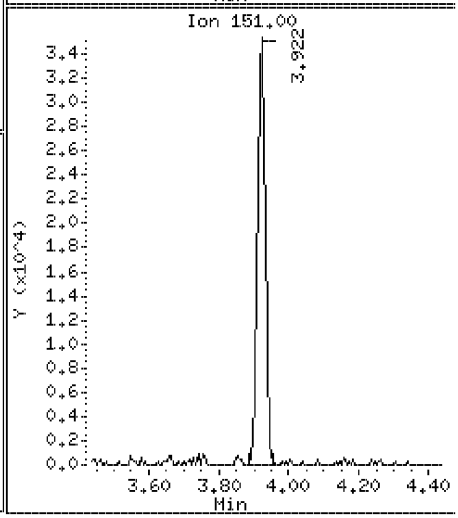












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

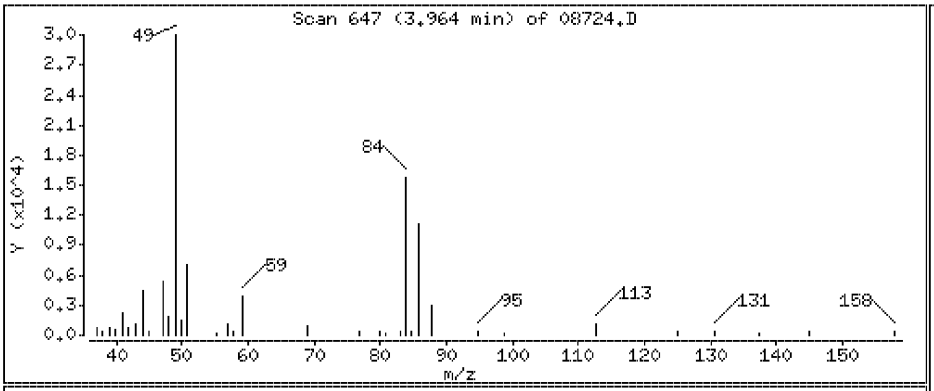
Operator: NCK

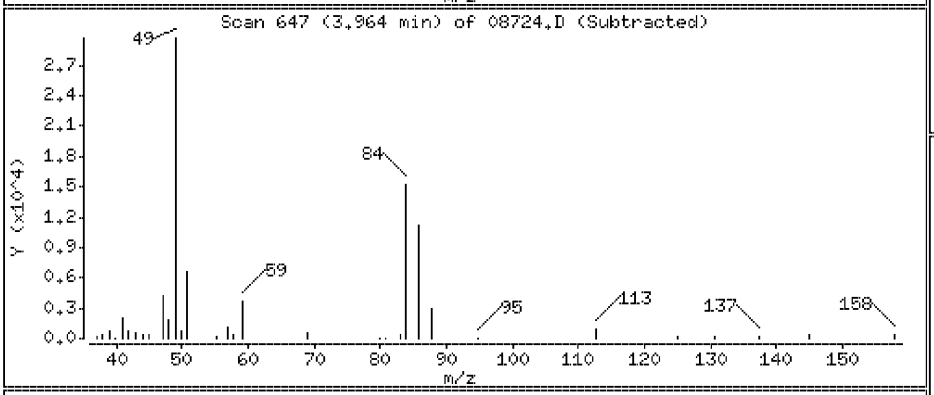
Column phase: J&W DB-5

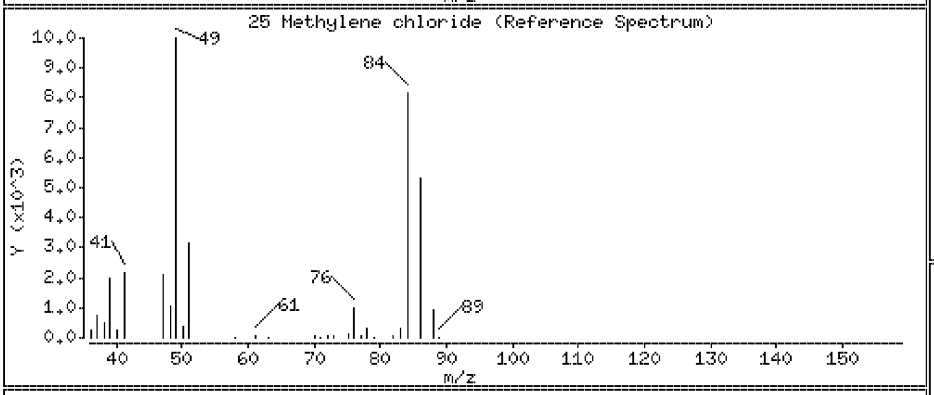
Column diameter: 0.32

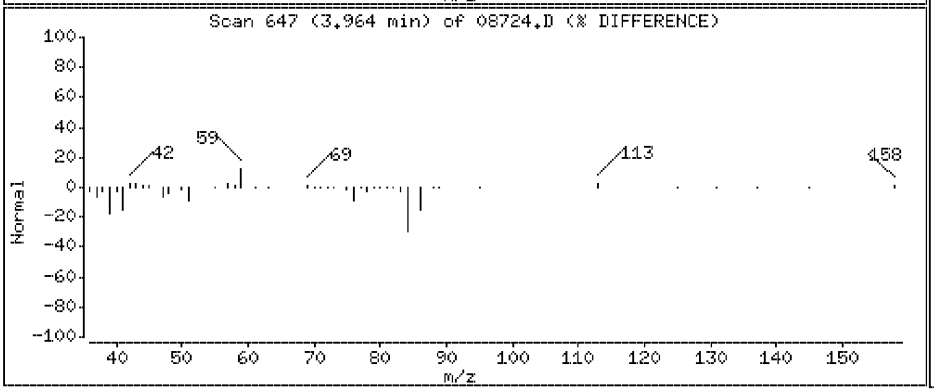
25 Methylene chloride

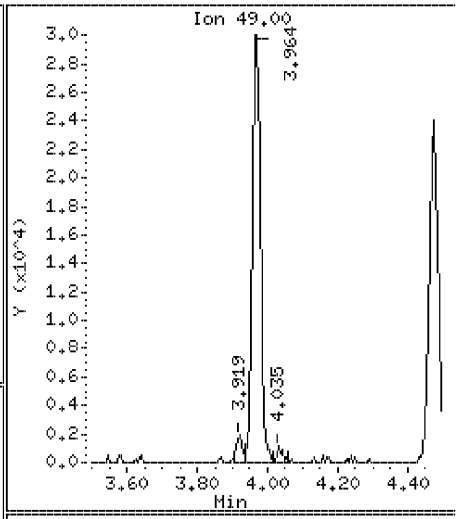
Concentration: 1.65 ppbv

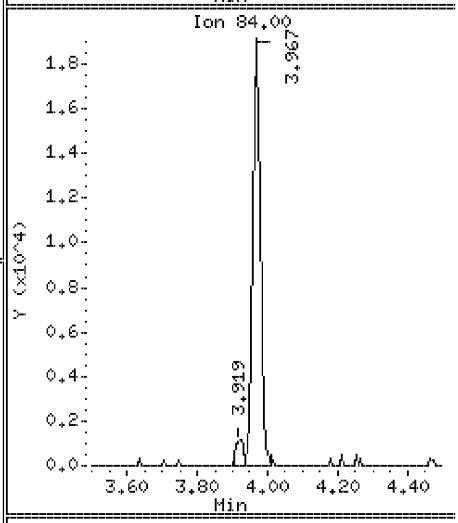


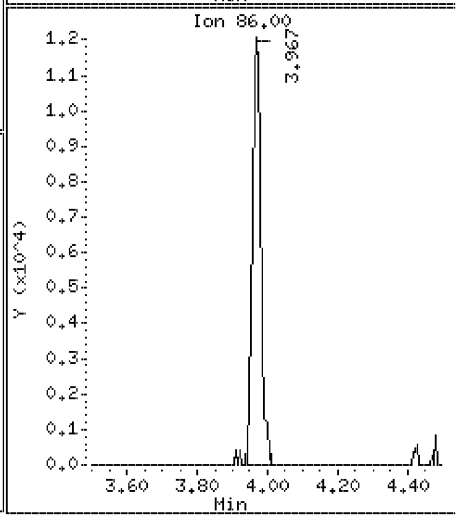












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

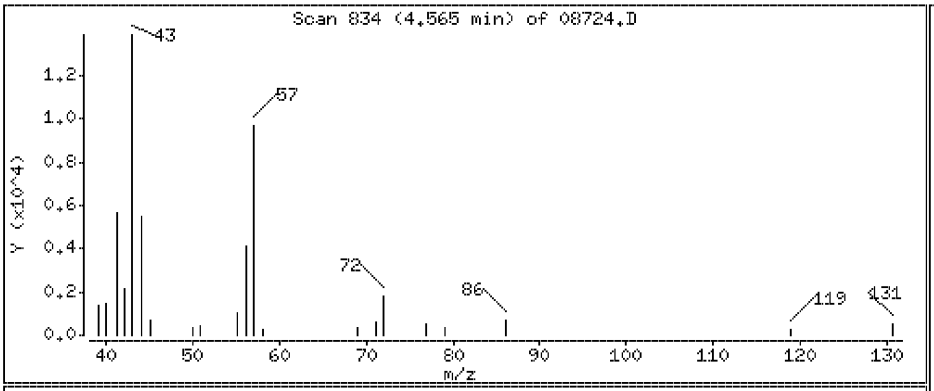
Operator: NCK

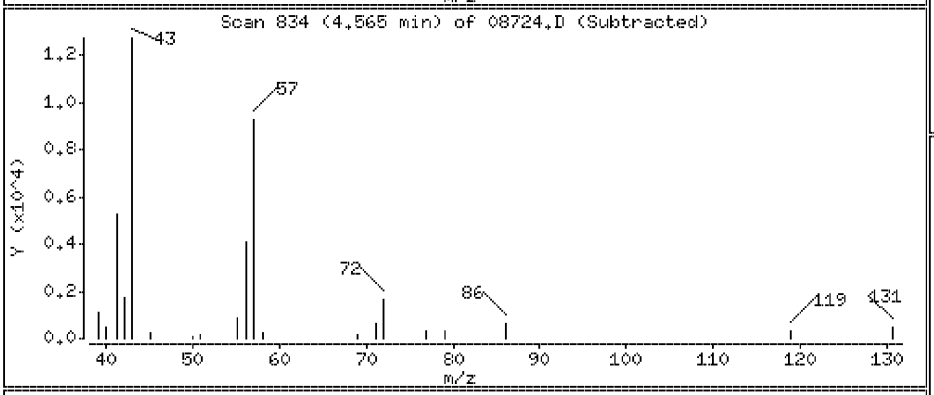
Column phase: J&W DB-5

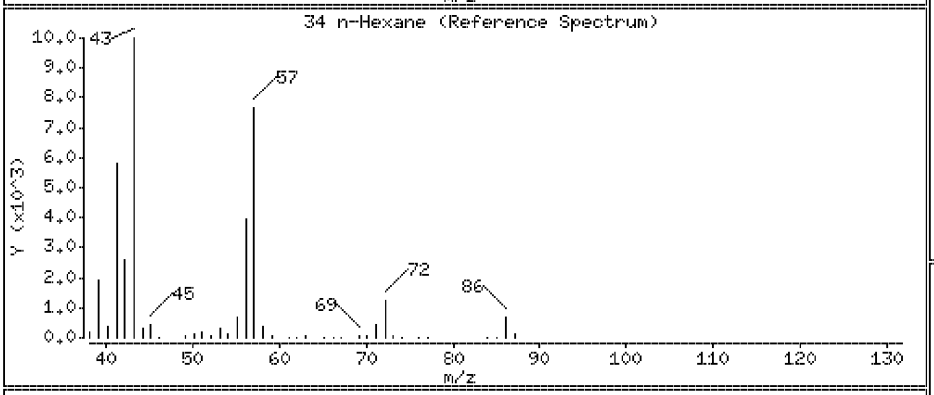
Column diameter: 0.32

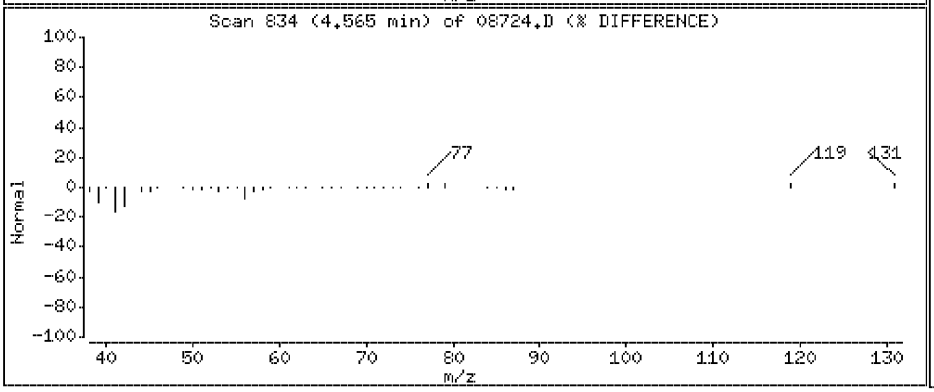
34 n-Hexane

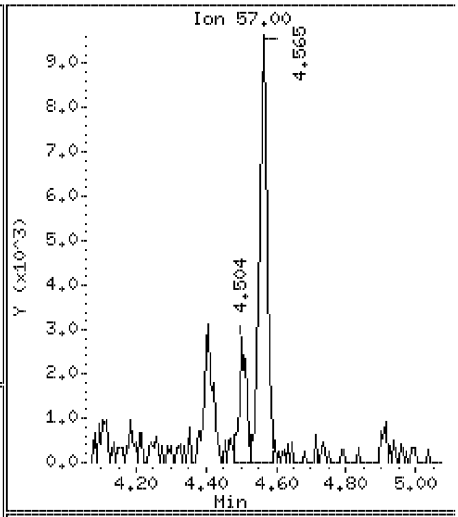
Concentration: 0.338 ppbv

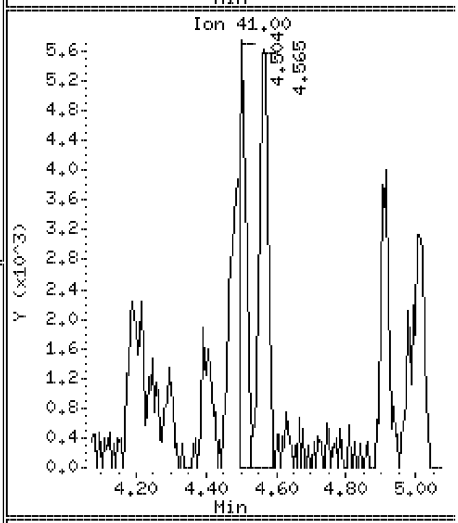


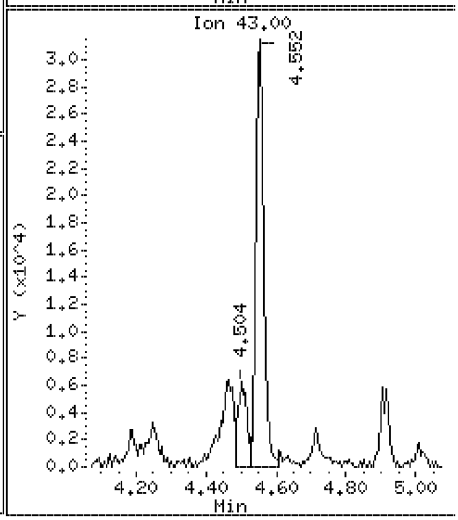












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

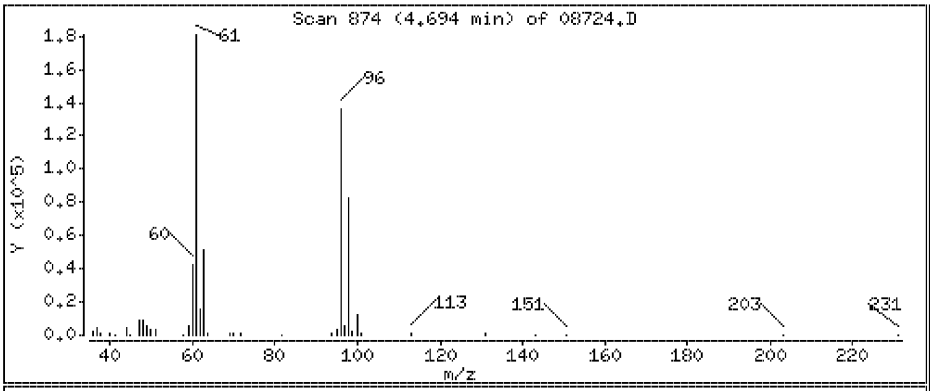
Operator: NCK

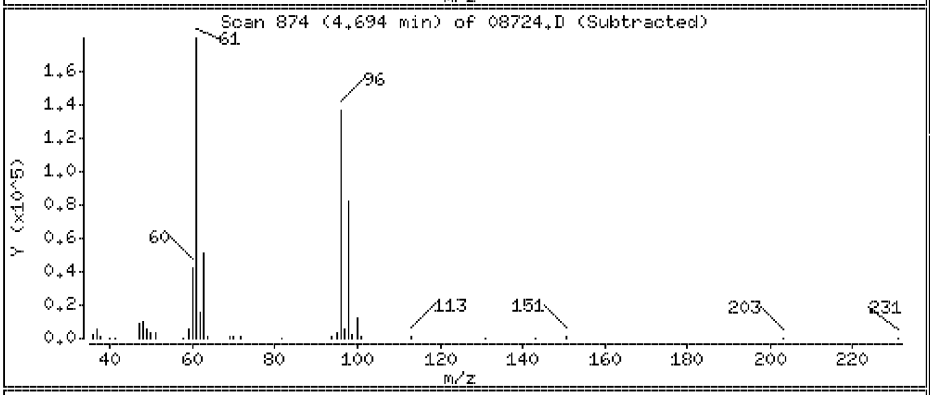
Column phase: J&W DB-5

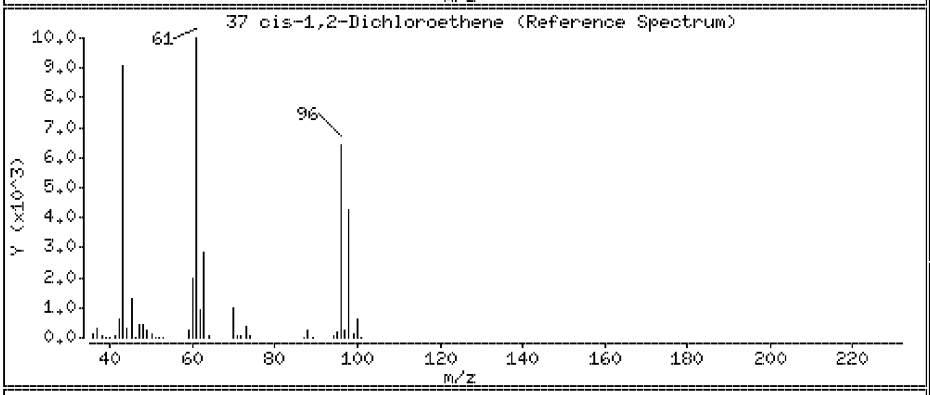
Column diameter: 0.32

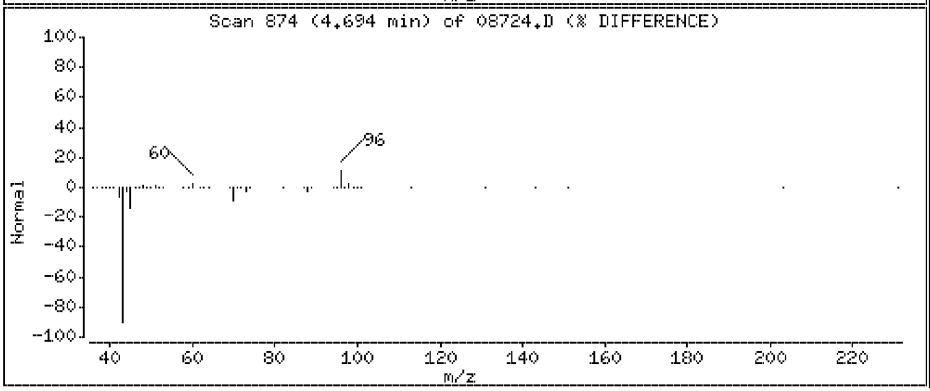
37 cis-1,2-Dichloroethene

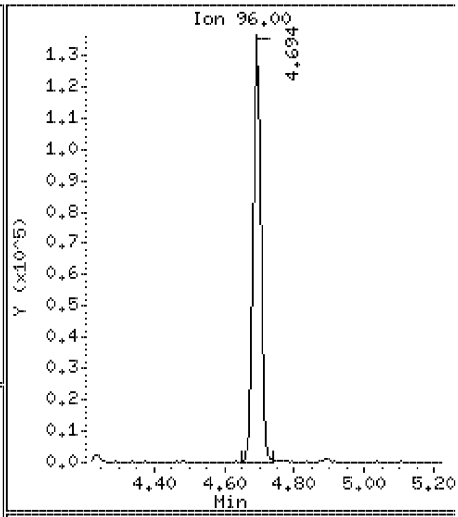
Concentration: 8.38 ppbv

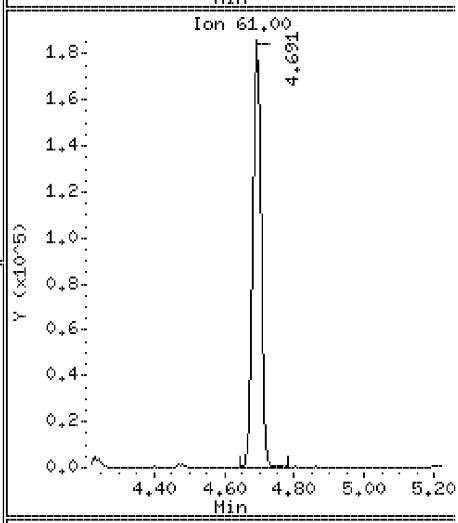


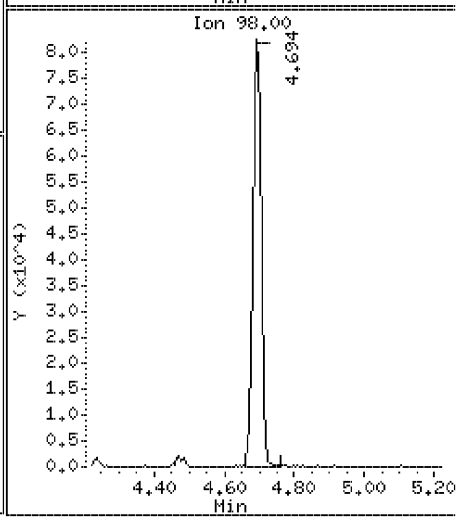












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

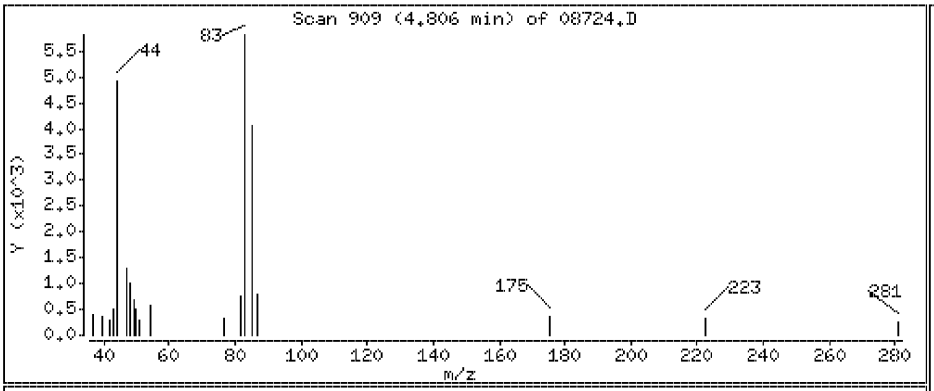
Operator: NCK

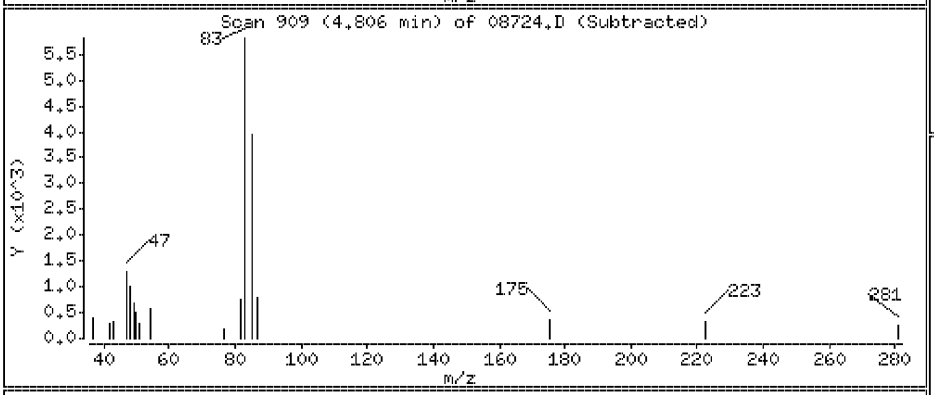
Column phase: J&W DB-5

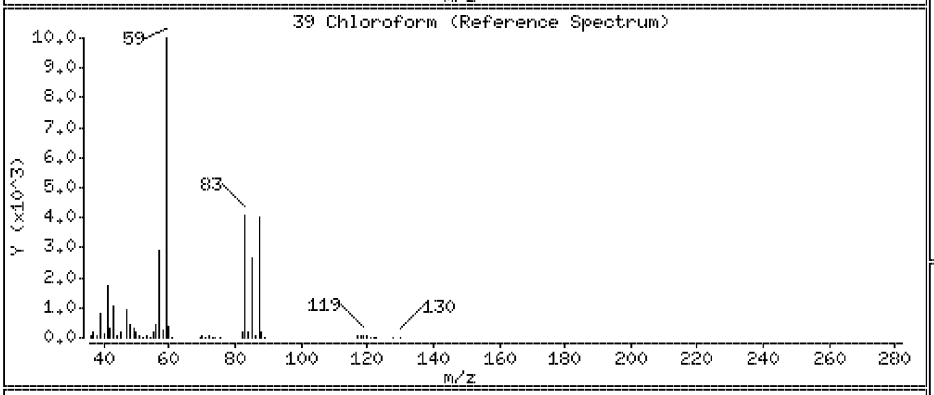
Column diameter: 0.32

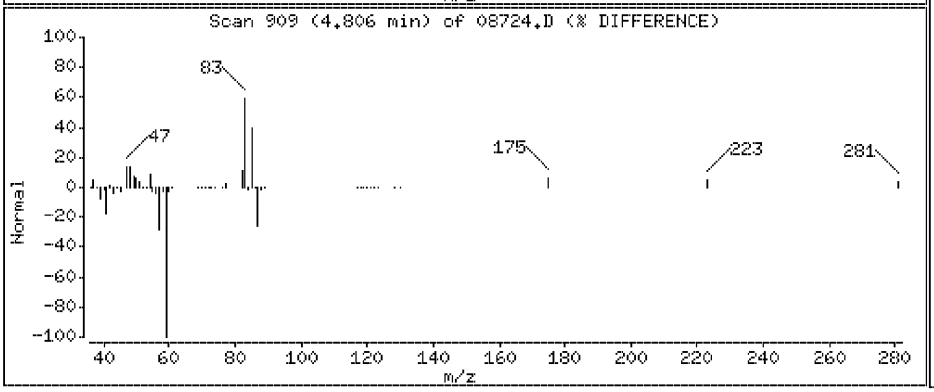
39 Chloroform

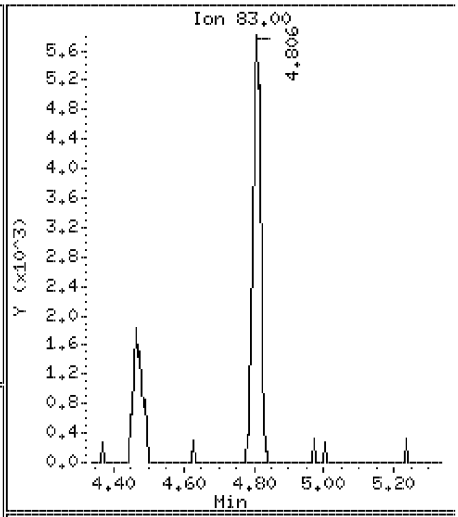
Concentration: 0.185 ppbv

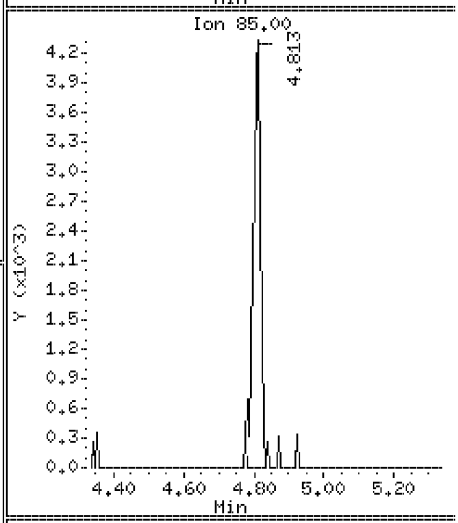


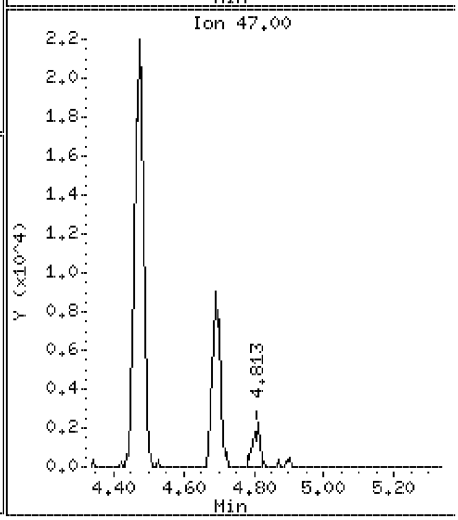












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

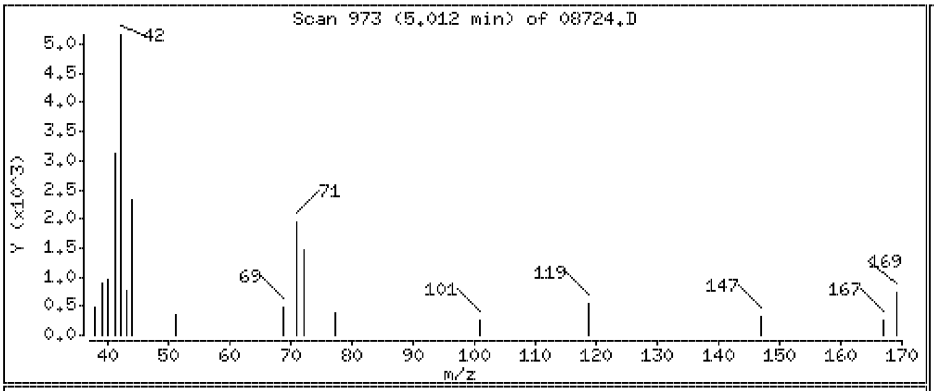
Operator: NCK

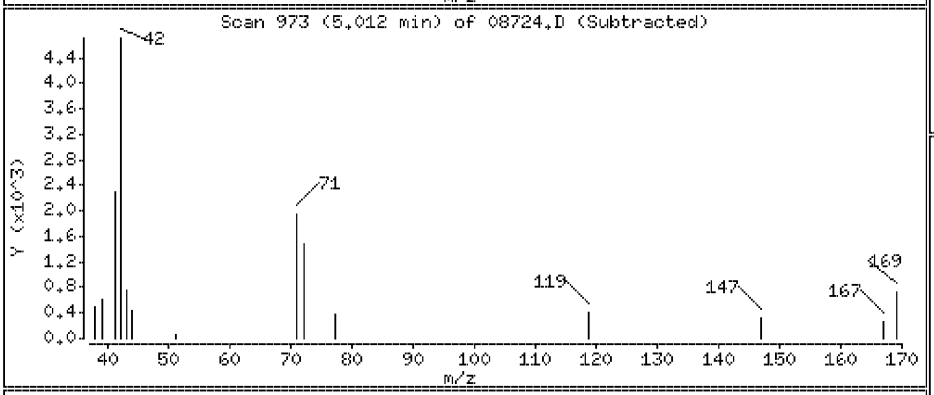
Column phase: J&W DB-5

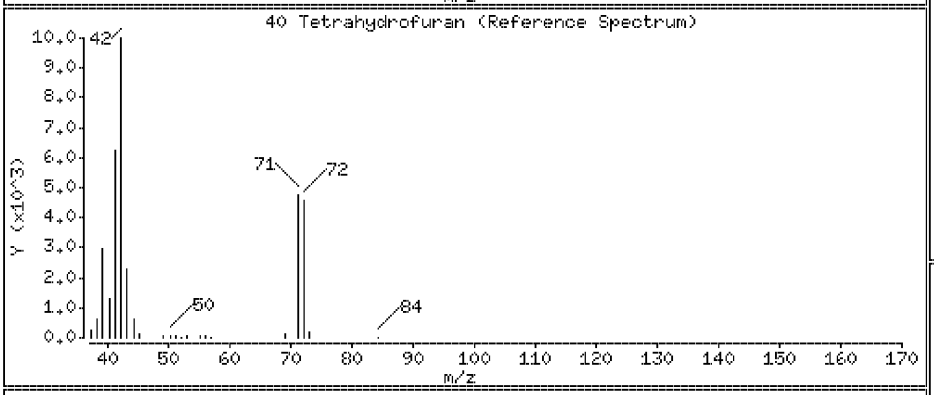
Column diameter: 0.32

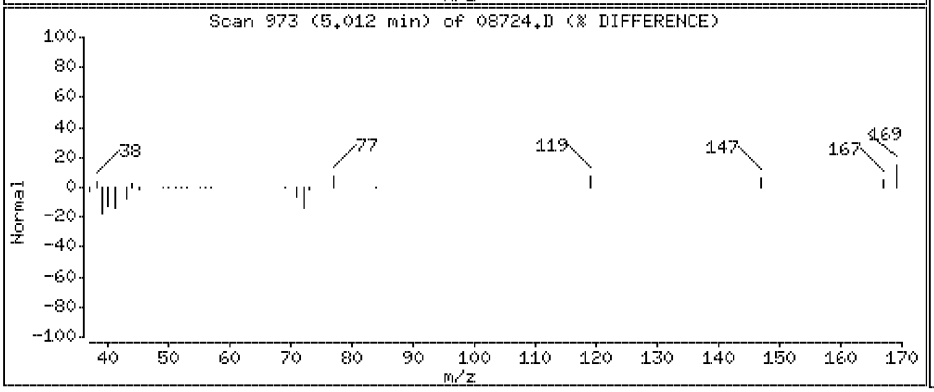
40 Tetrahydrofuran

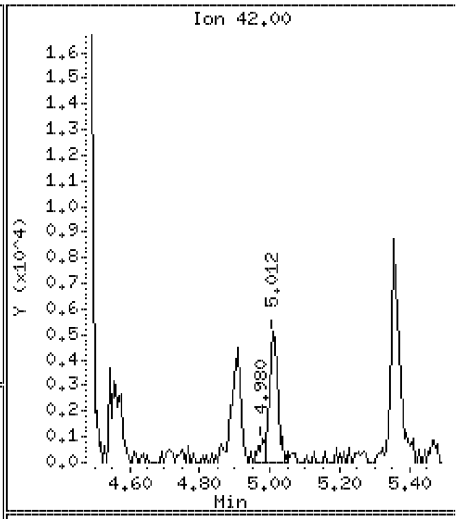
Concentration: 0.246 ppbv

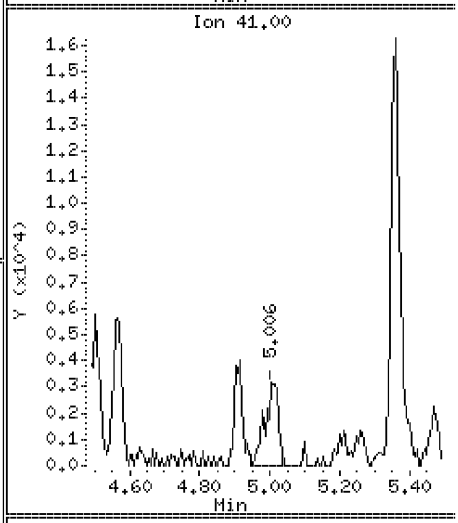


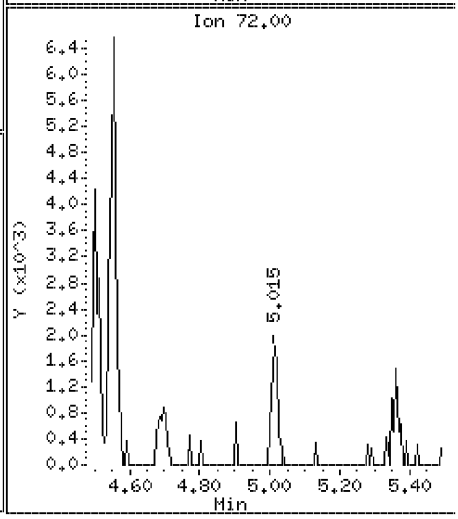












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

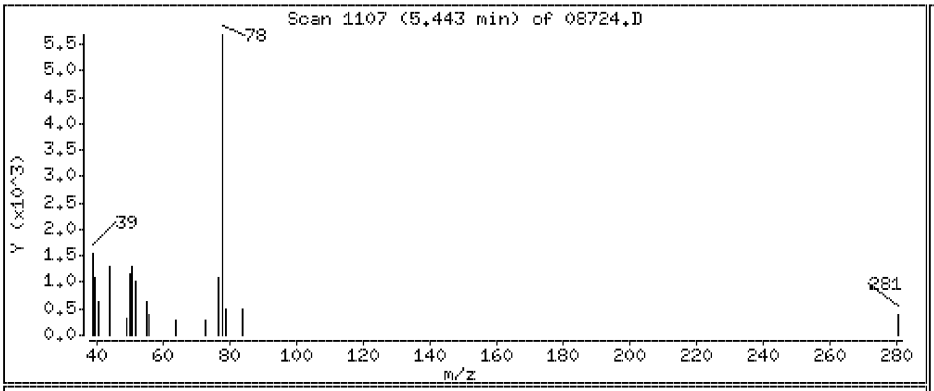
Operator: NCK

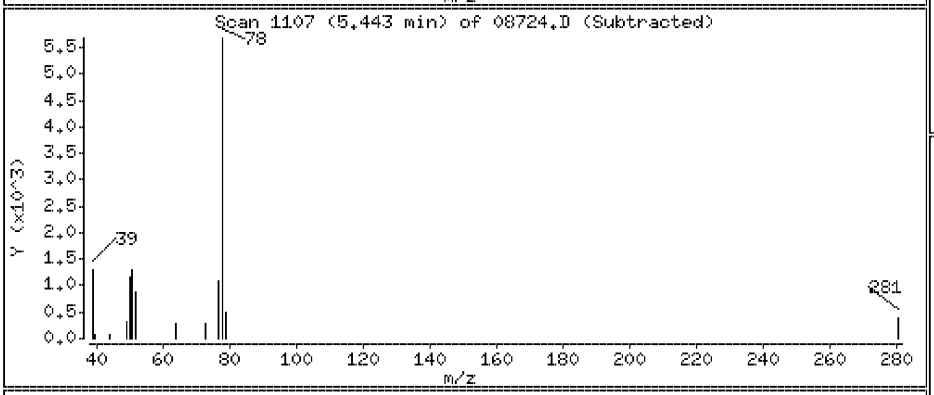
Column phase: J&W DB-5

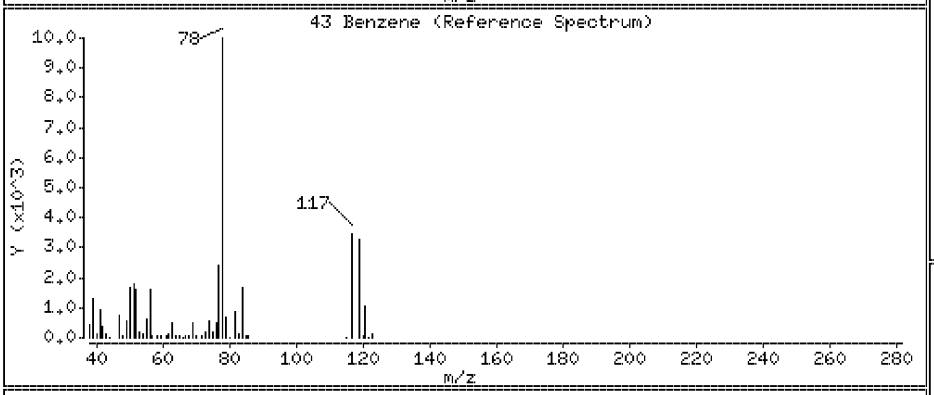
Column diameter: 0.32

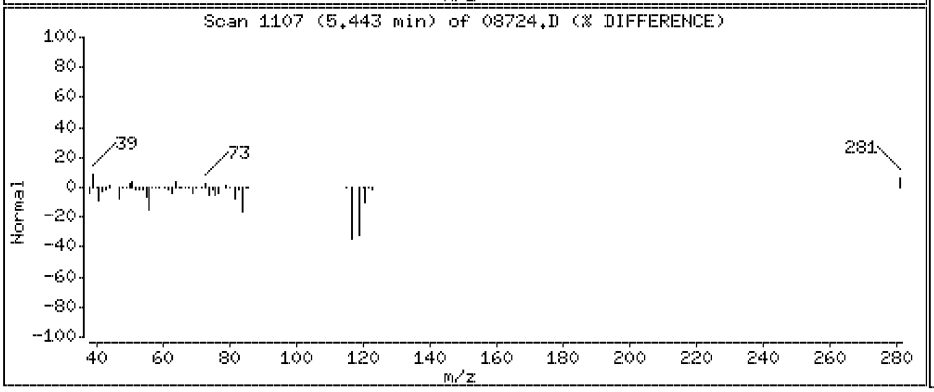
43 Benzene

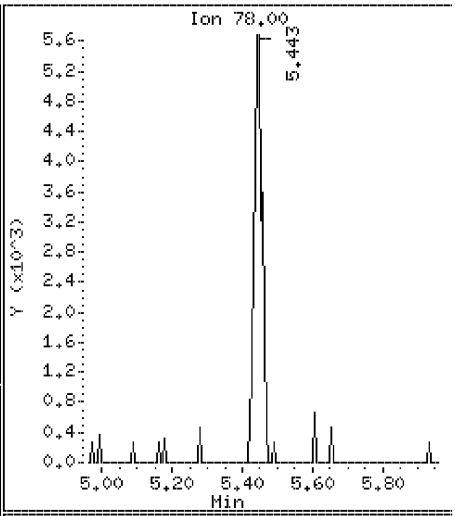
Concentration: 0.105 ppbv

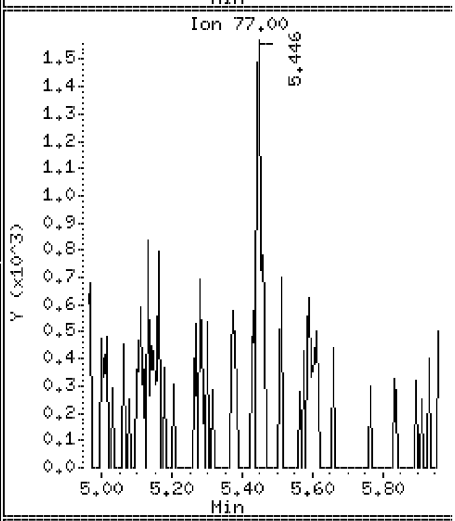


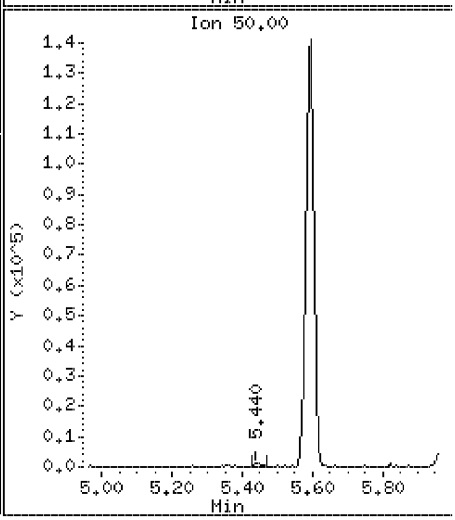












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

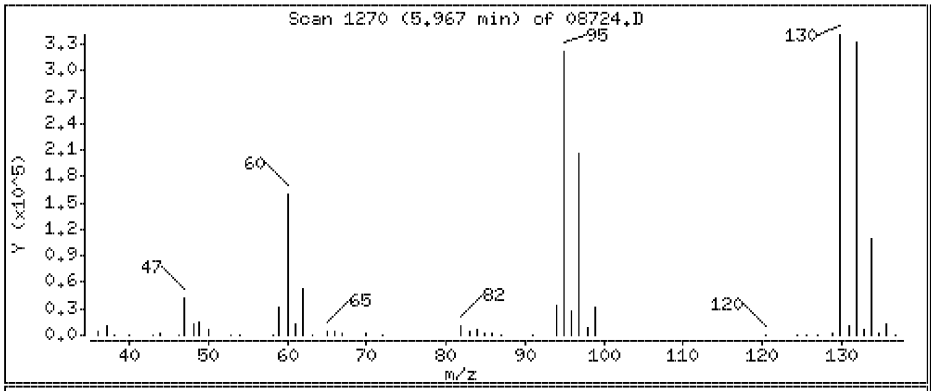
Operator: NCK

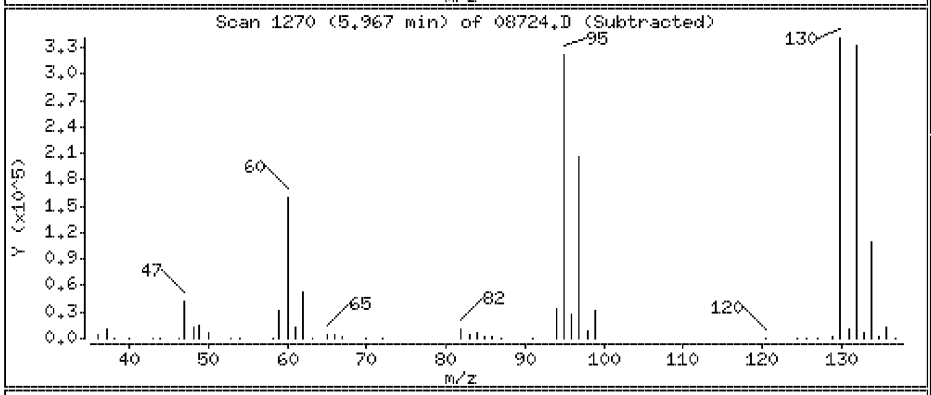
Column phase: J&W DB-5

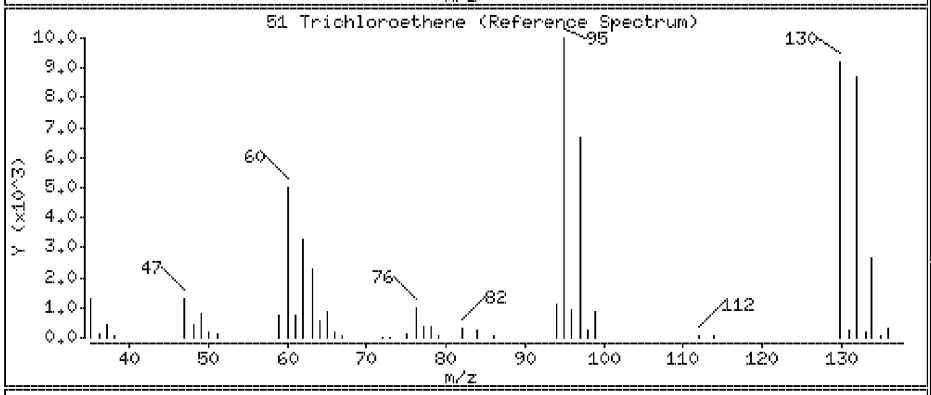
Column diameter: 0.32

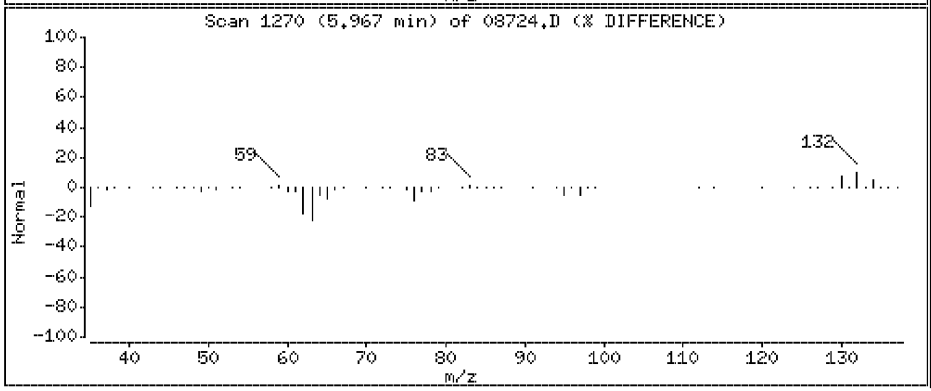
51 Trichloroethene

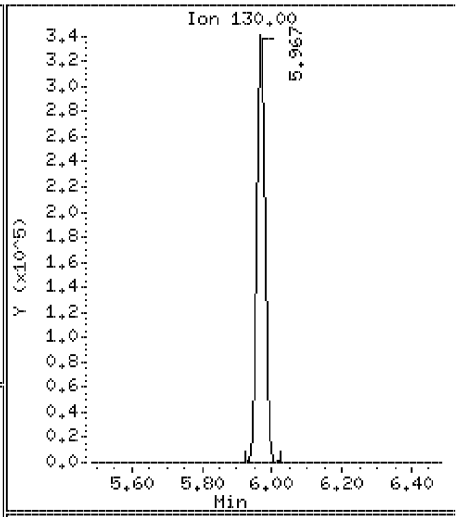
Concentration: 12.7 ppbv

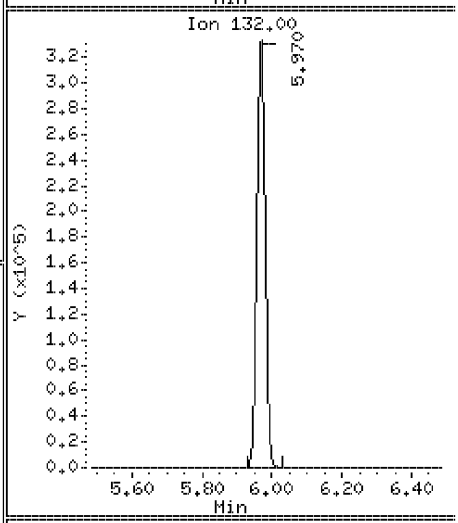


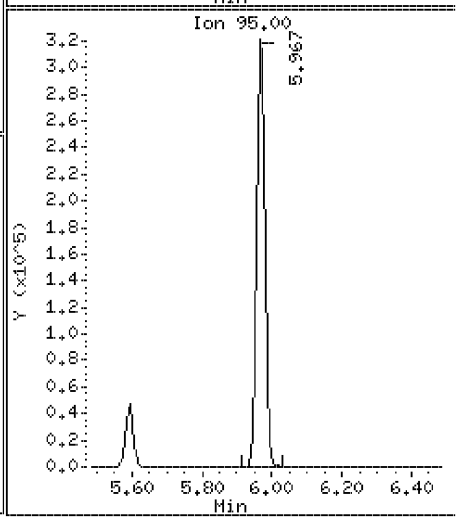












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

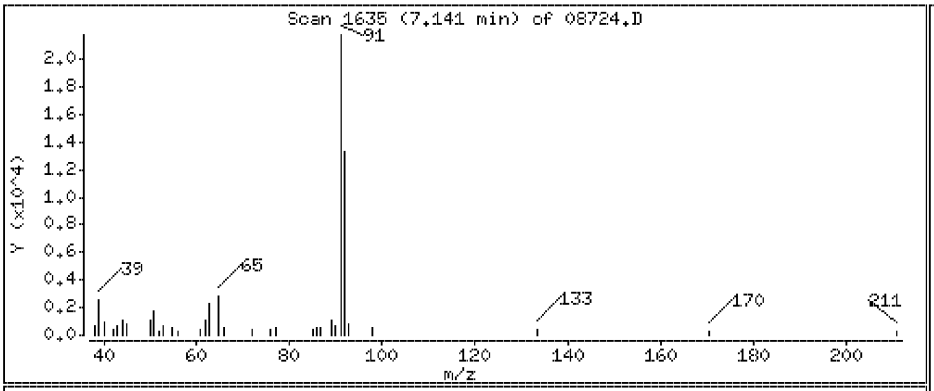
Operator: NCK

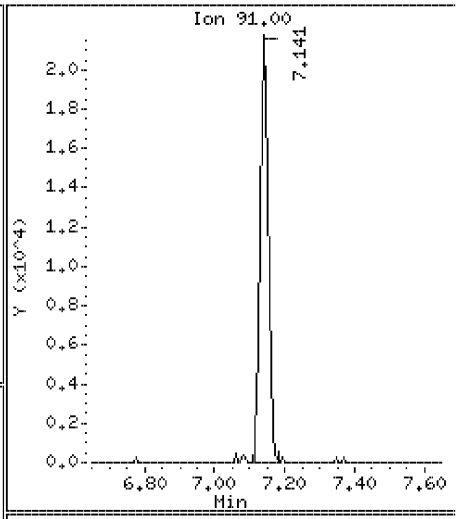
Column phase: J&W DB-5

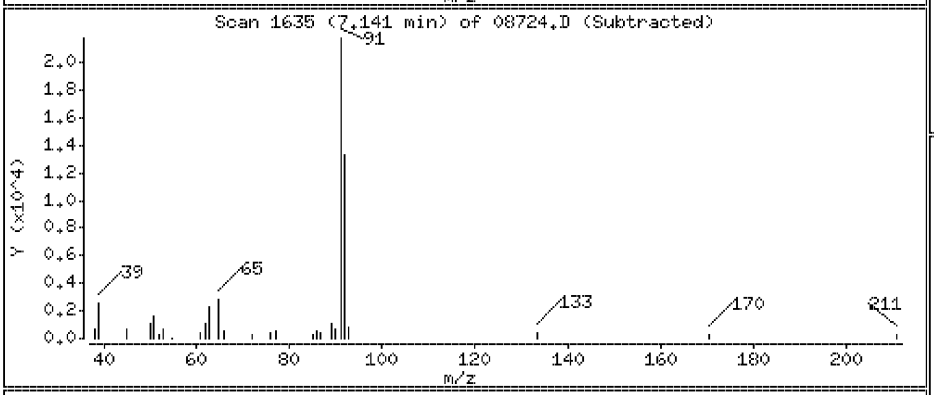
Column diameter: 0.32

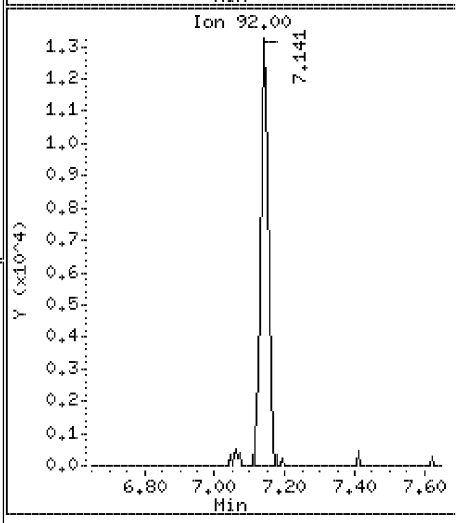
61 Toluene

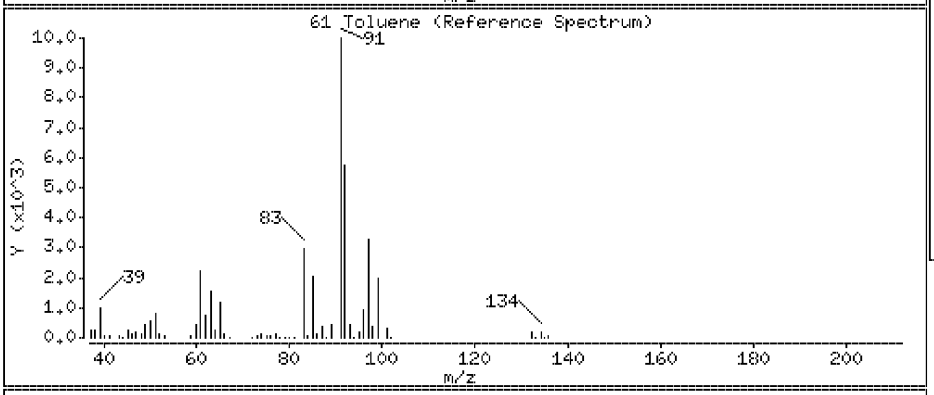
Concentration: 0.327 ppbv

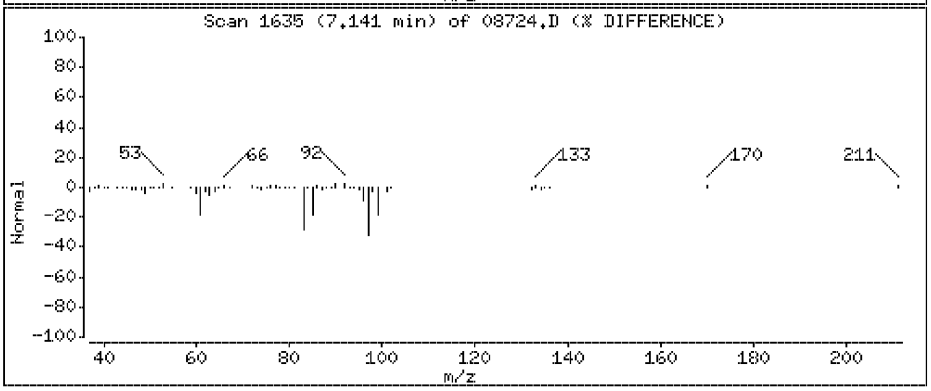












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

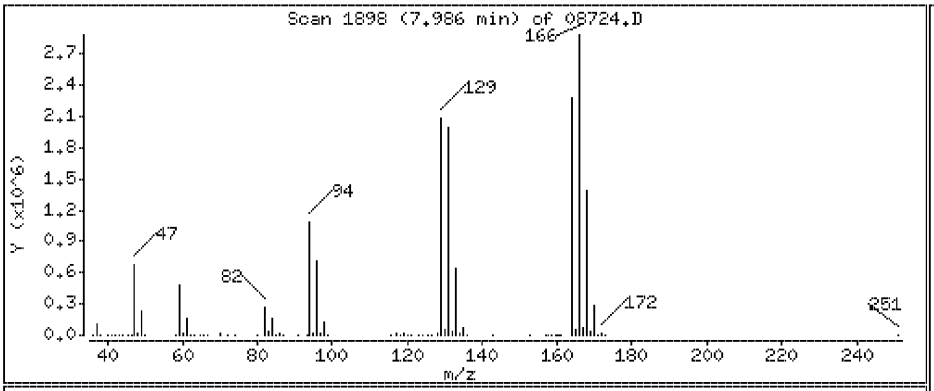
Operator: NCK

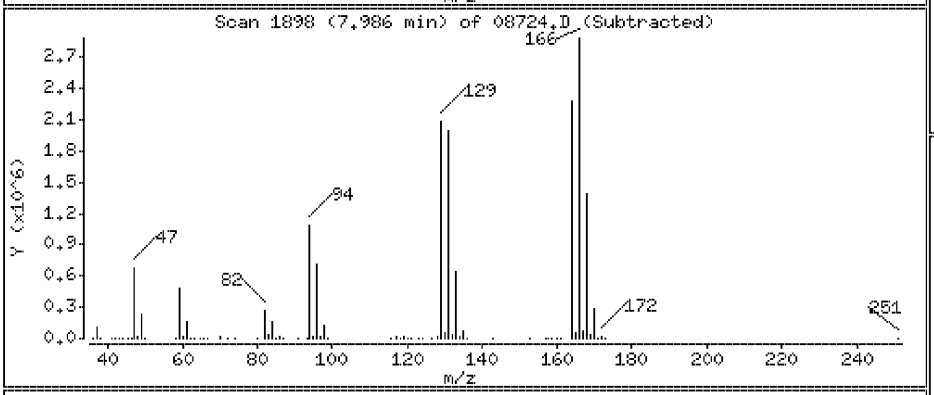
Column phase: J&W DB-5

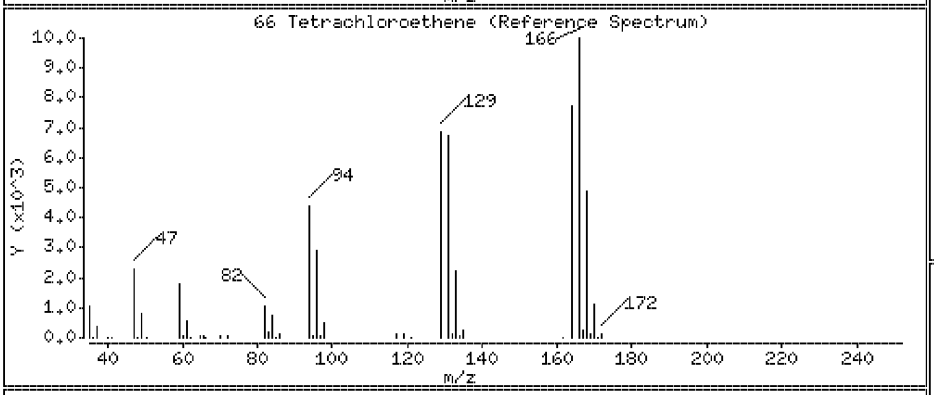
Column diameter: 0.32

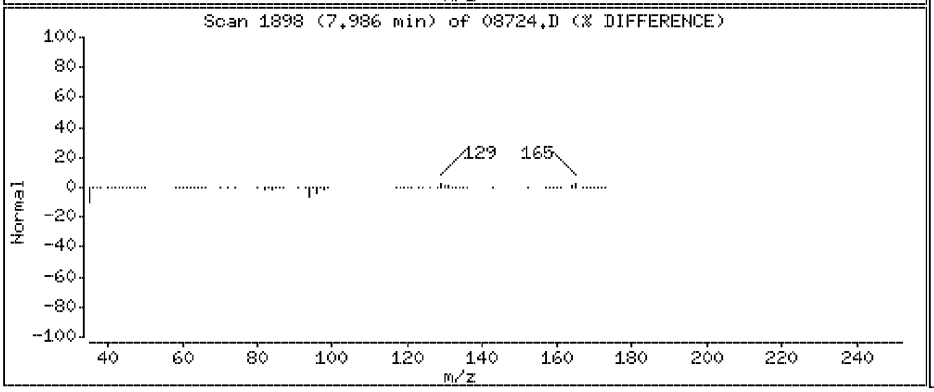
66 Tetrachloroethene

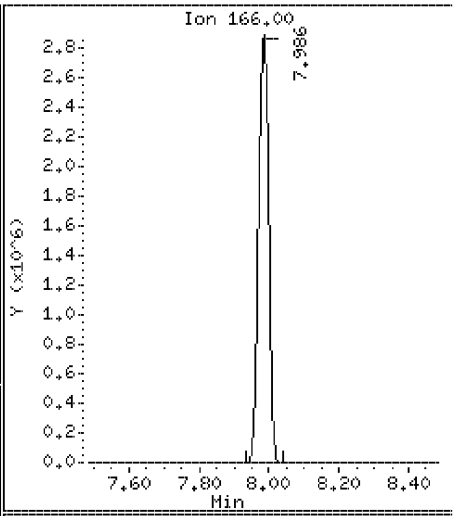
Concentration: 103 ppbv

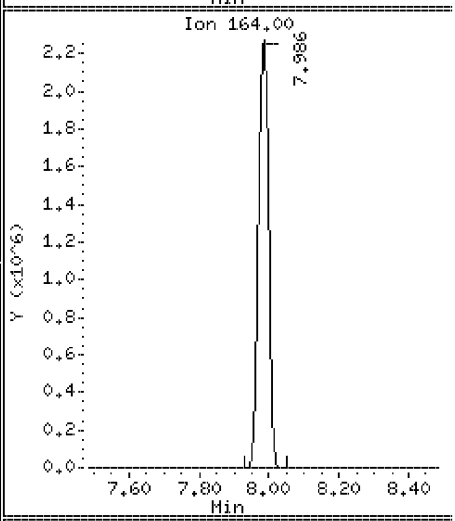


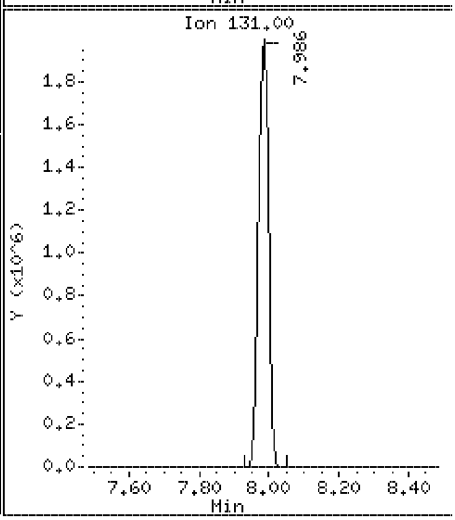












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08724.D

Date : 28-MAR-2017 21:14

Client ID:

Instrument: 10airB.i

Sample Info:

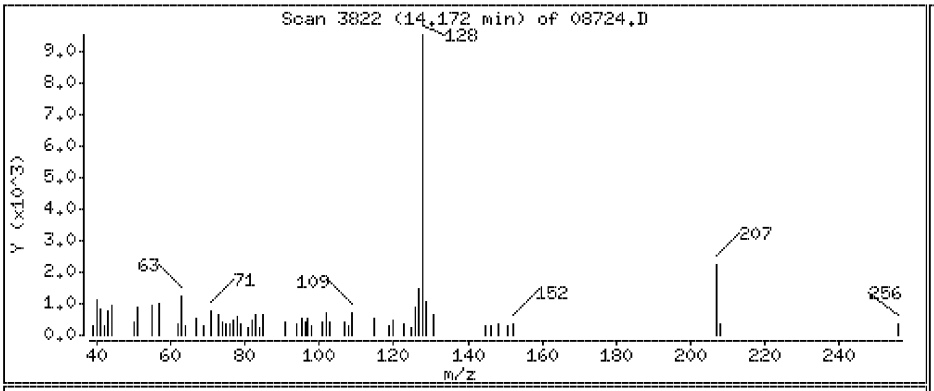
Operator: NCK

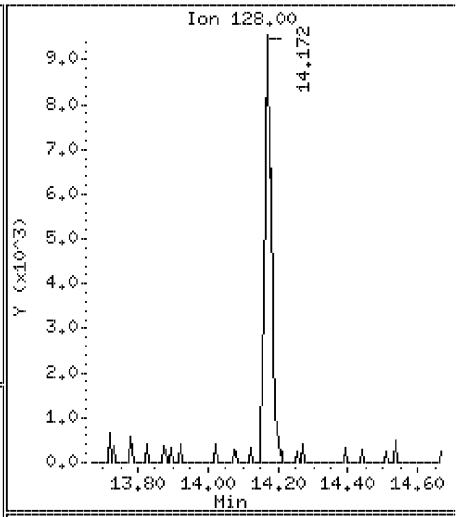
Column phase: J&W DB-5

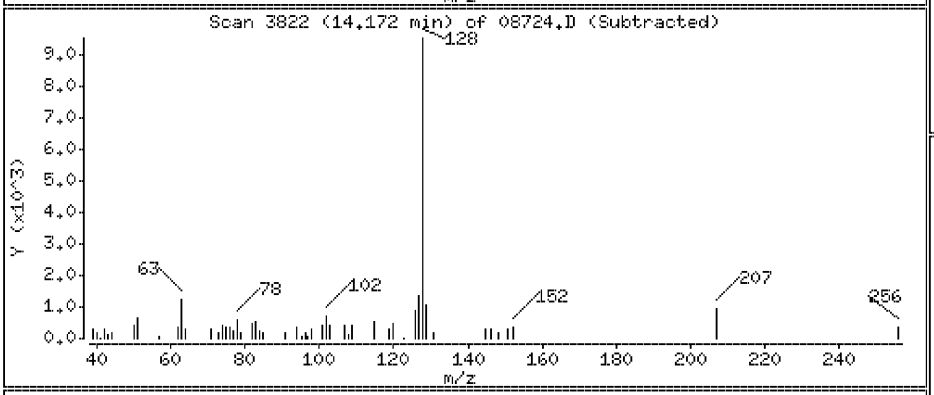
Column diameter: 0.32

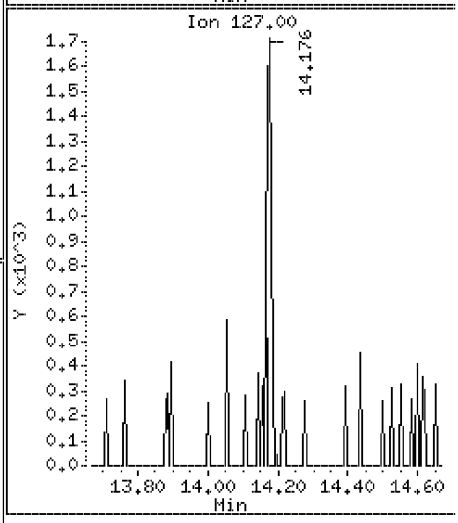
94 Naphthalene

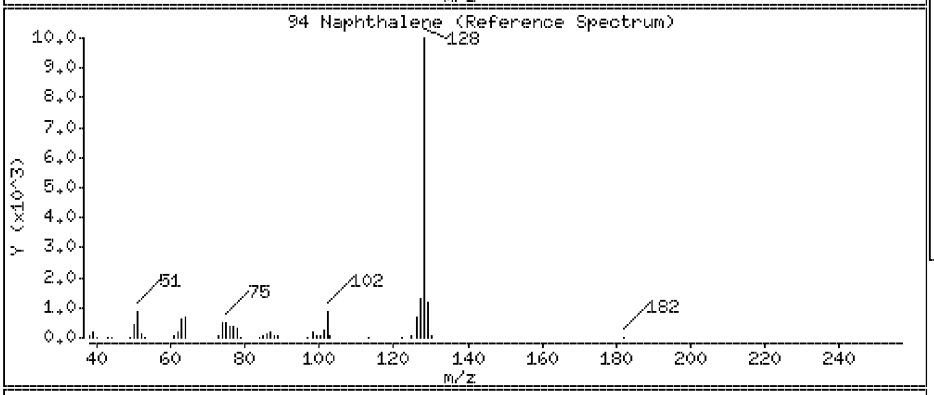
Concentration: 0.914 ppbv

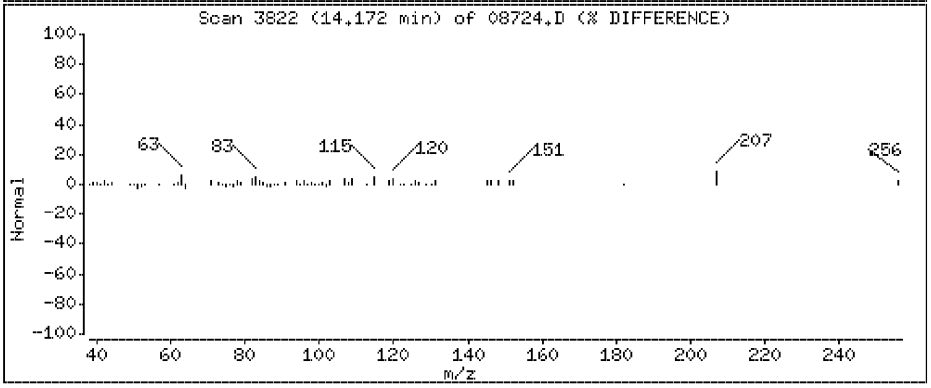






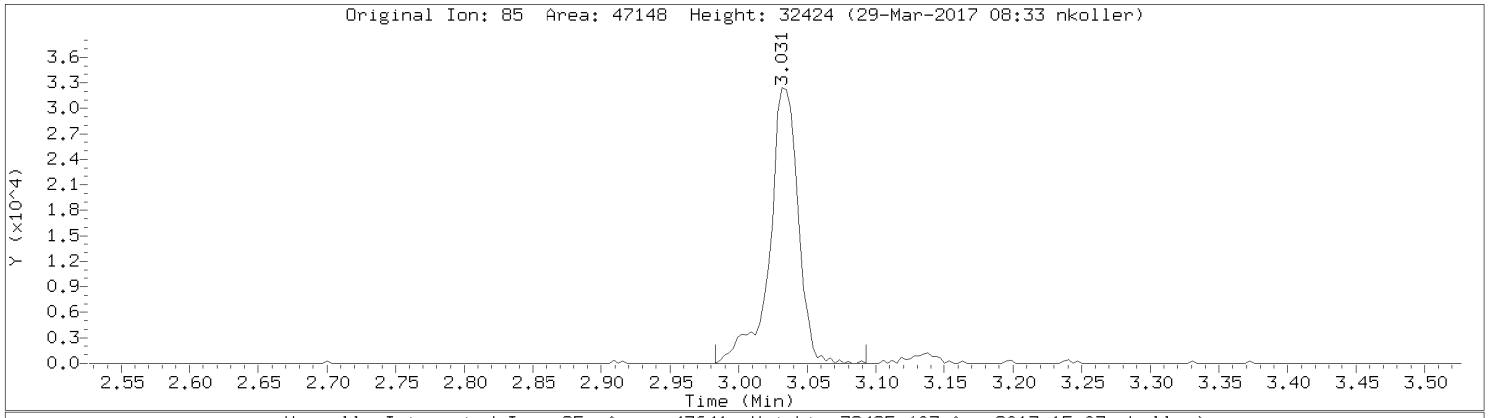


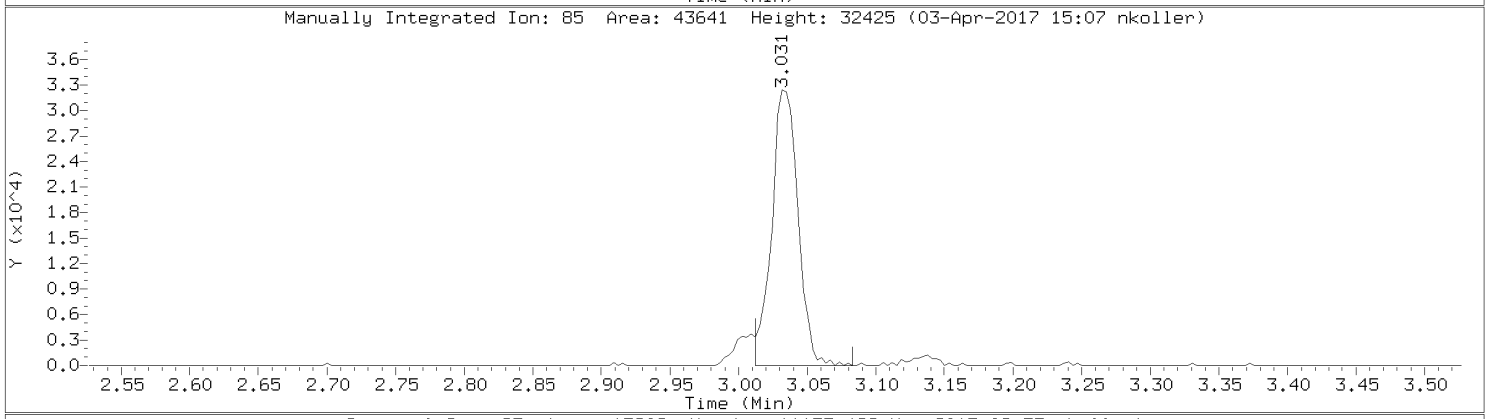


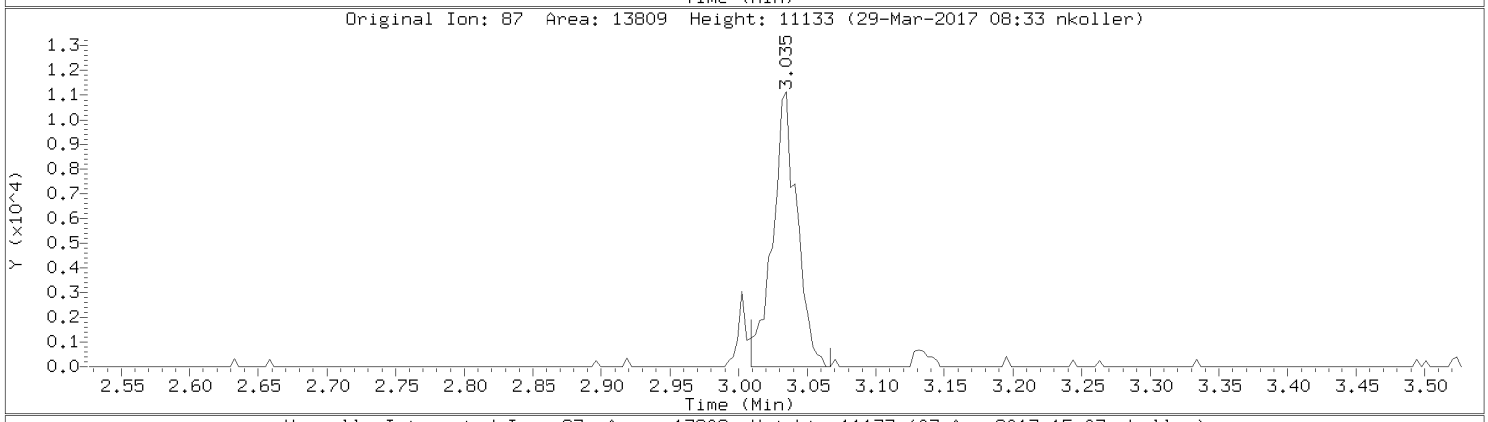


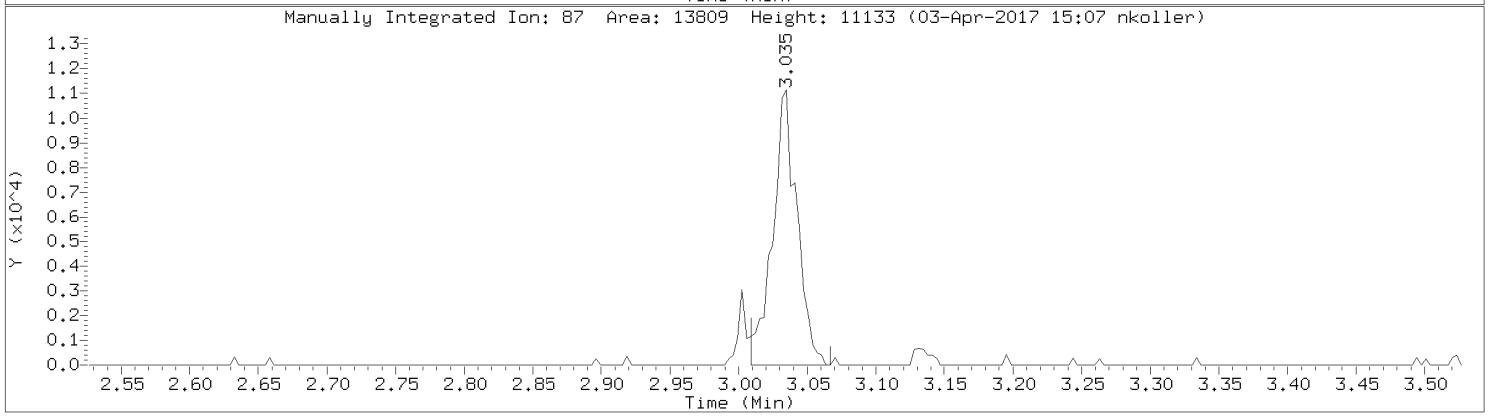
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08724.D
Injection Date: 28-MAR-2017 21:14
Instrument: 10airB.i
Lab Sample ID: 10381335019

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



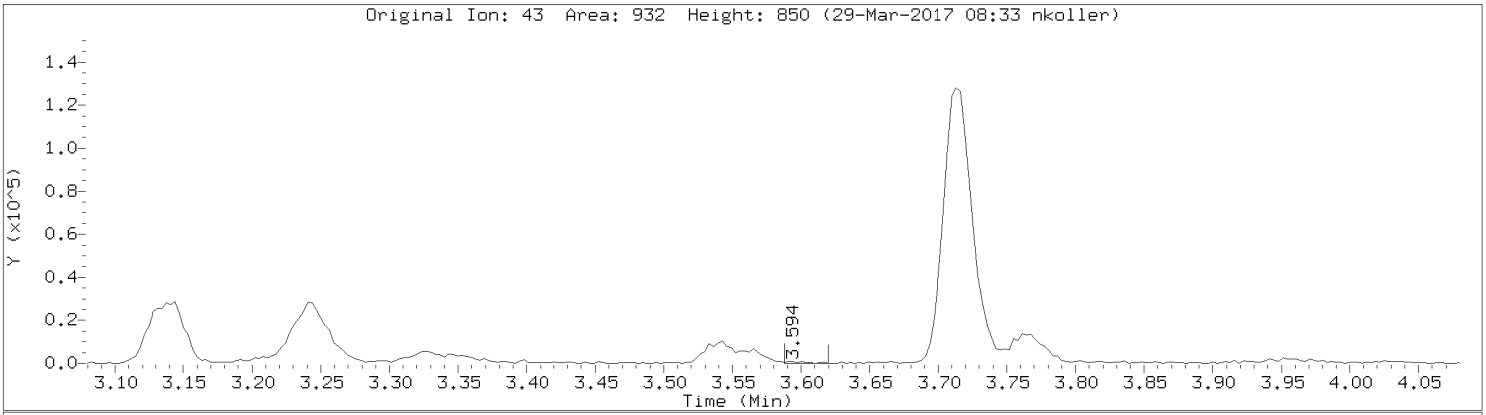


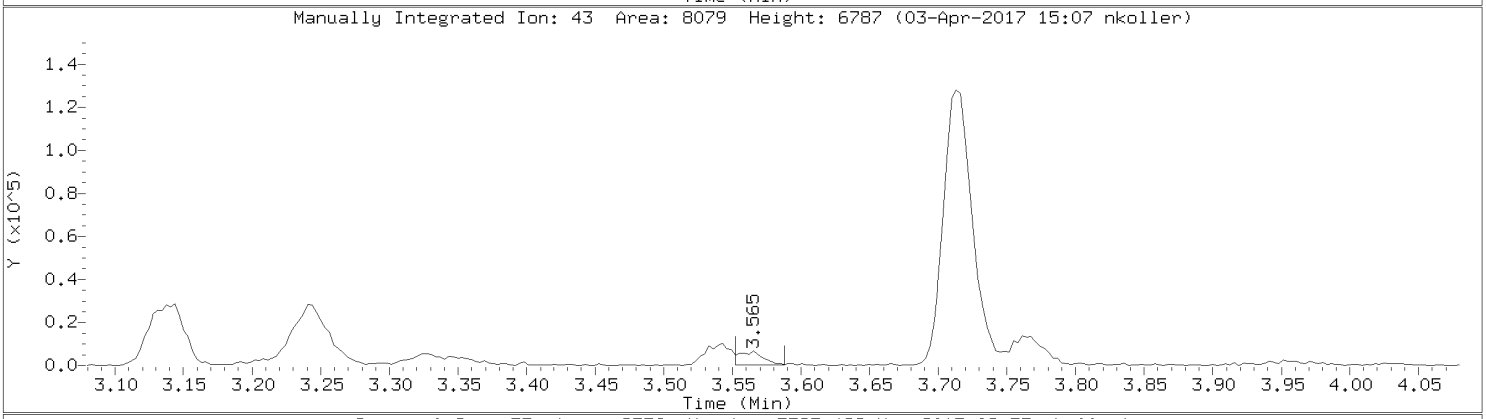


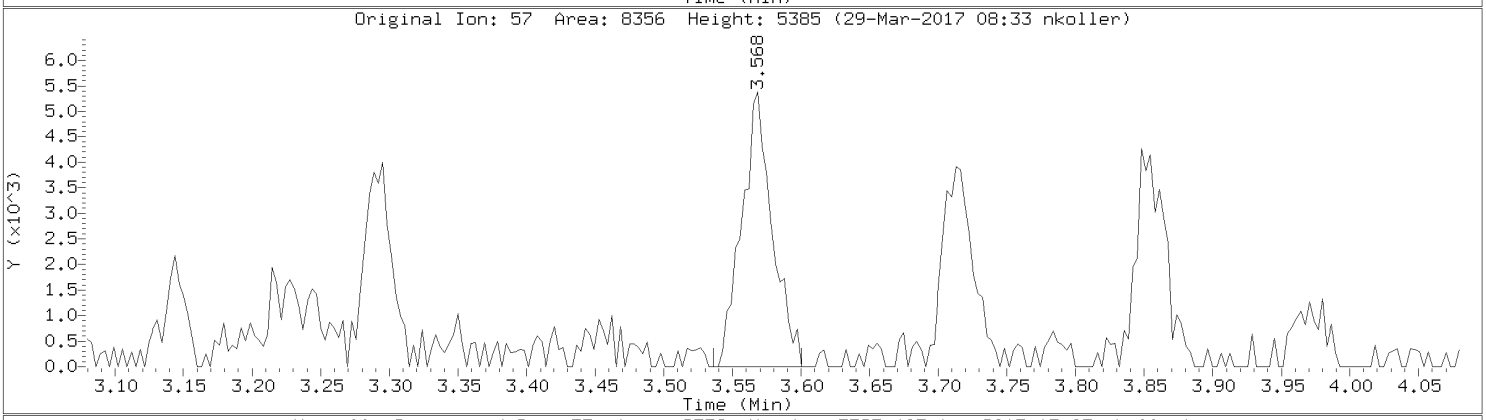


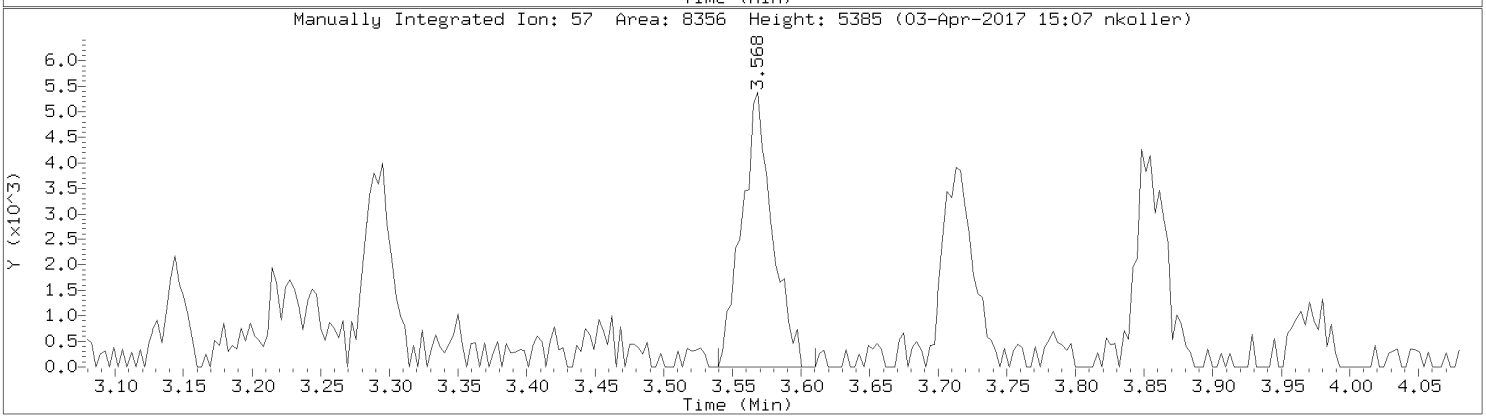
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08724.D
Injection Date: 28-MAR-2017 21:14
Instrument: 10airB.i
Lab Sample ID: 10381335019

Compound: Isopentane
CAS Number: 78-78-4

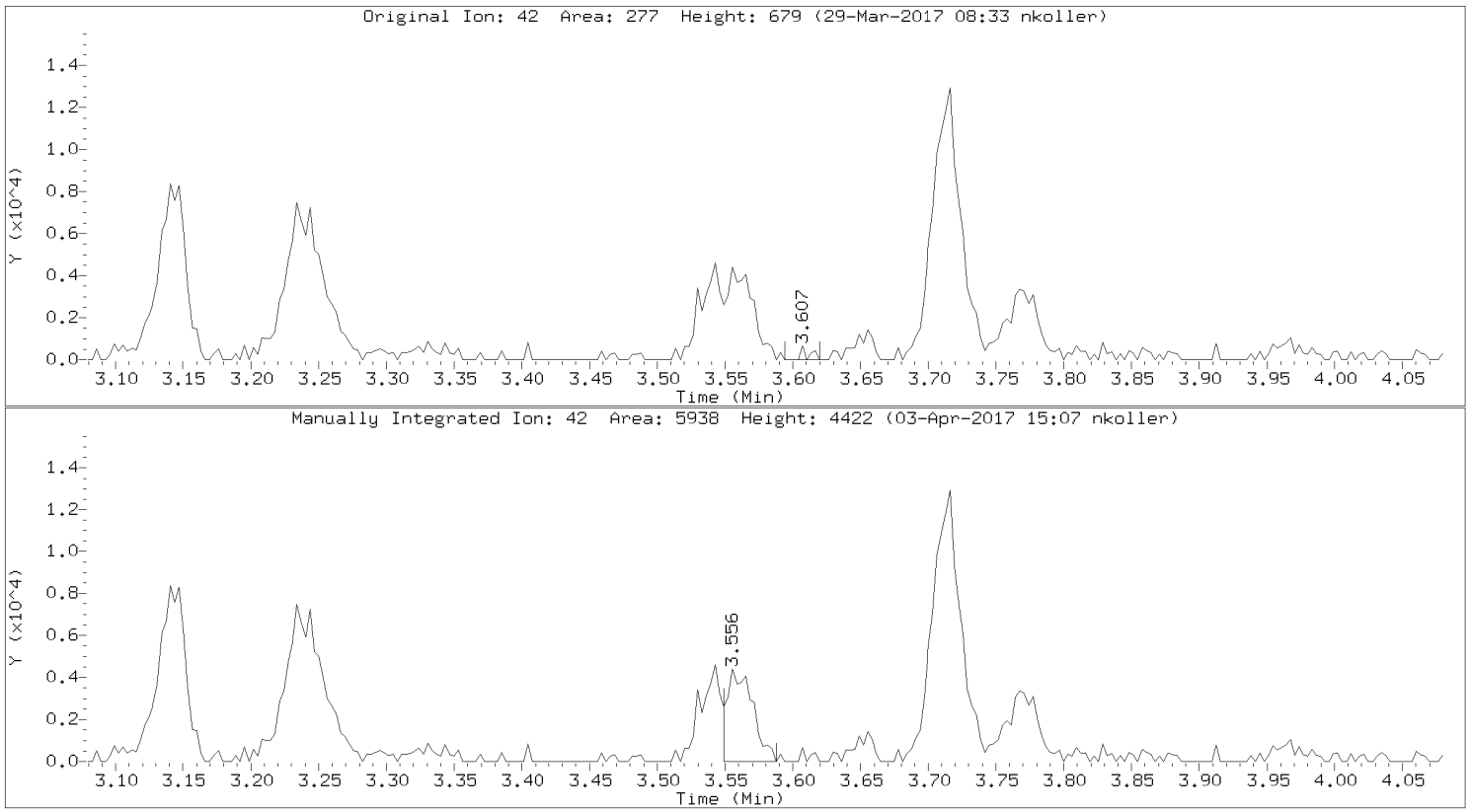








Data File: \\192.168.10.12\chem\10airB.i\032817.b/08724.D
Injection Date: 28-MAR-2017 21:14
Instrument: 10airB.i
Lab Sample ID: 10381335019



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08947.D
Report Date: 31-Mar-2017 15:33

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08947.D
Lab Smp Id: 10381335019
Inj Date : 31-MAR-2017 10:50
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 31-Mar-2017 13:25 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 47
Dil Factor: 17.50000
Integrator: HP RTE Compound Sublist: PCE.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	17.500	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
	25 Methylene chloride	49	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.475	4.548	(0.800)	672948	9.70987	9.71	
*	47 1,4-Difluorobenzene	114	5.594	5.674	(1.000)	1815233	10.0000		
$	59 Toluene-d8 (S)	98	7.066	7.121	(1.263)	1480295	9.65811	9.66	
	66 Tetrachloroethene	166	7.979	8.021	(0.917)	694113	7.94346	139	
*	67 Chlorobenzene - d5	117	8.638	8.677	(1.000)	1073029	10.0000		(H)
$	85 1,4-dichlorobenzene-d4 (S)	150	11.847	11.870	(1.361)	407300	8.32531	8.33	

QC Flag Legend

H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08947.D
Report Date: 31-Mar-2017 15:33

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08947.D
Lab Smp Id: 10381335019
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info: 28028

Calibration Date: 31-MAR-2017
Calibration Time: 03:32
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

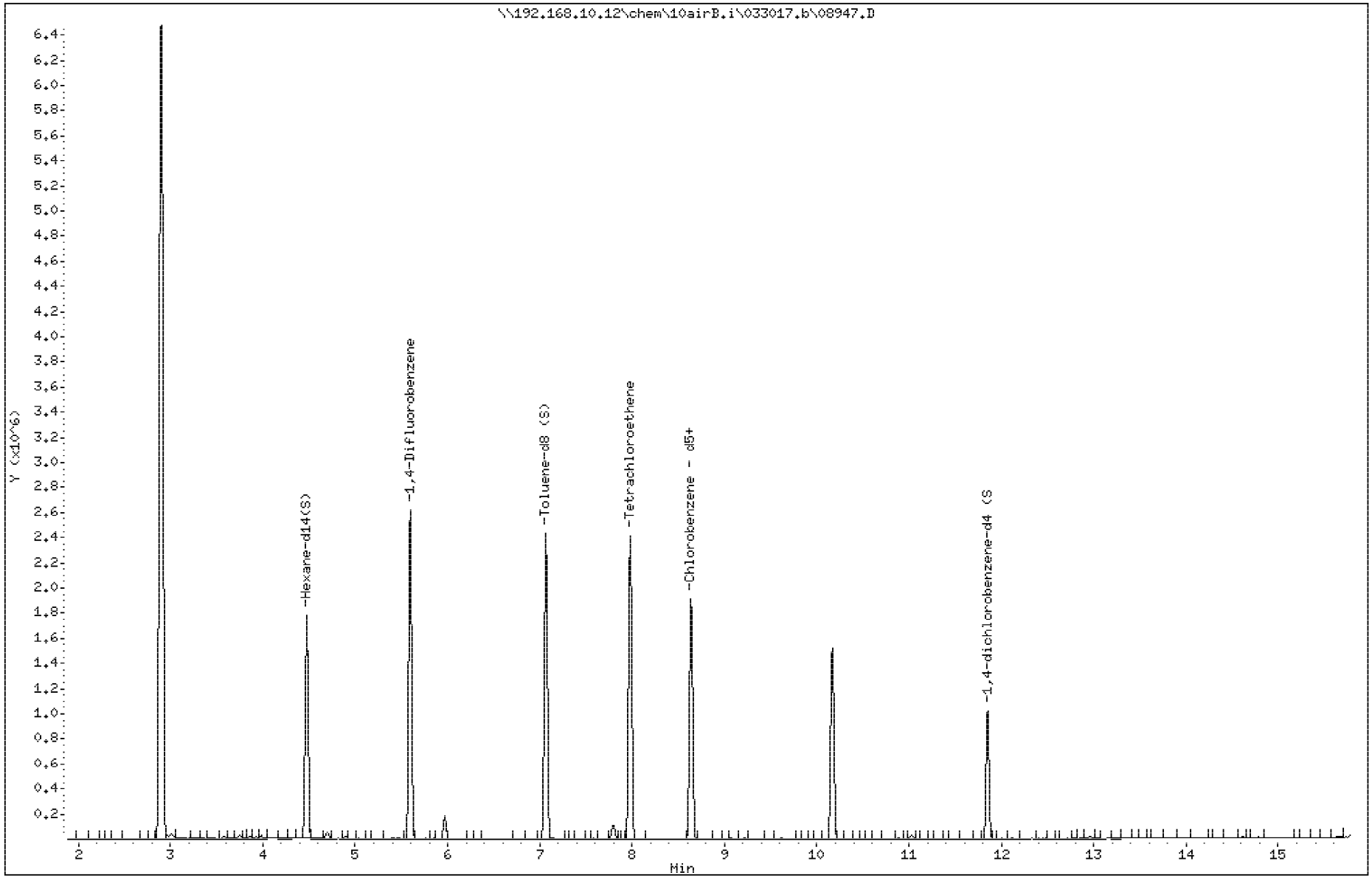
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	1815233	-0.40
67 Chlorobenzene - d	1204744	722846	1686642	1073029	-10.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.67	5.34	6.00	5.59	-1.42
67 Chlorobenzene - d	8.68	8.35	9.01	8.64	-0.44

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08947.D
Date : 31-MAR-2017 10:50
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08947.D

Date : 31-MAR-2017 10:50

Client ID:

Instrument: 10airB.i

Sample Info:

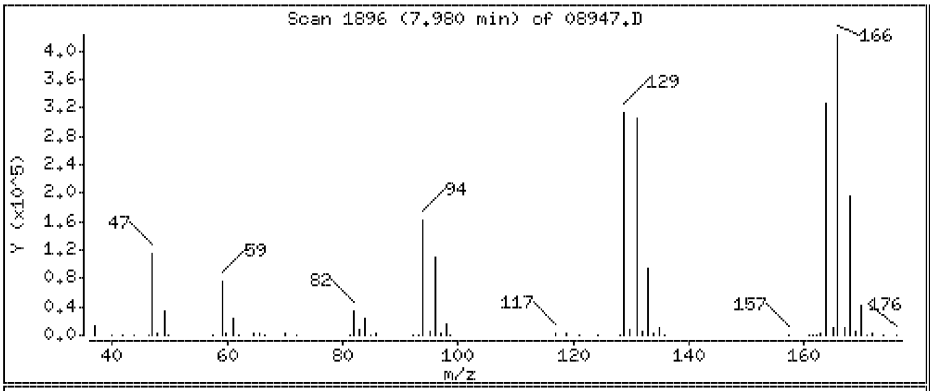
Operator: NCK

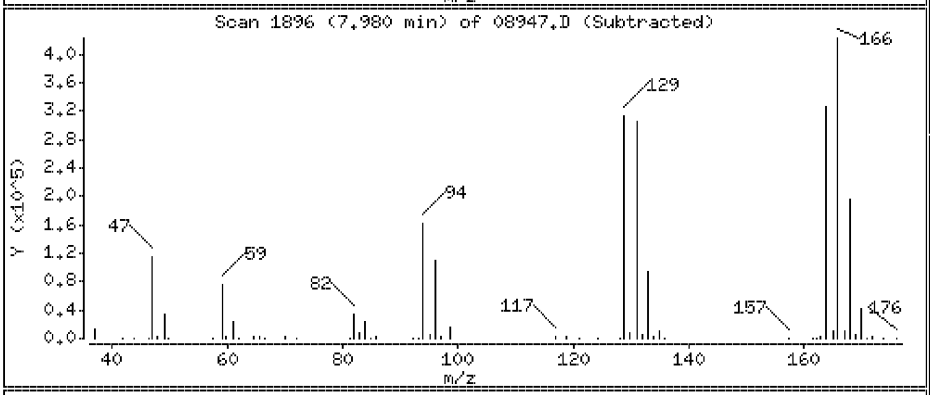
Column phase: J&W DB-5

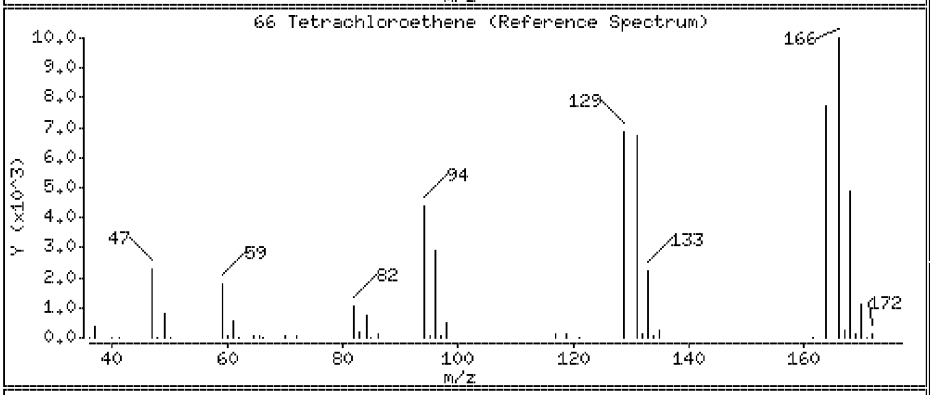
Column diameter: 0.32

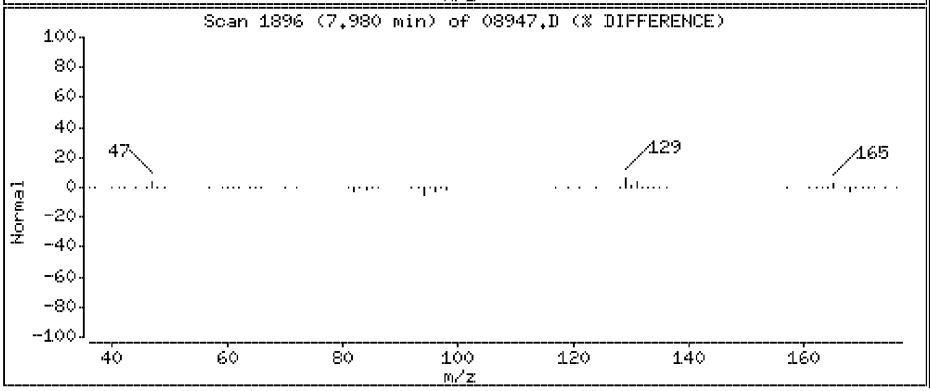
66 Tetrachloroethene

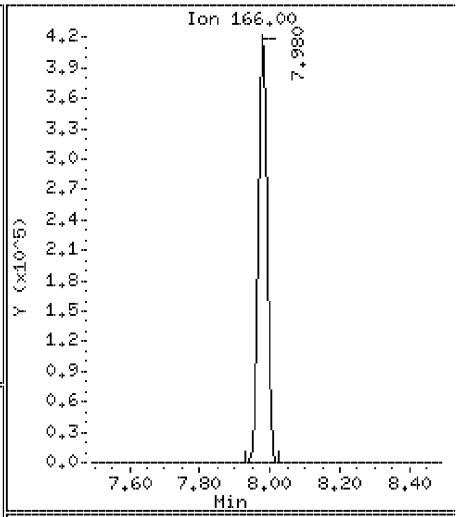
Concentration: 139 ppbv

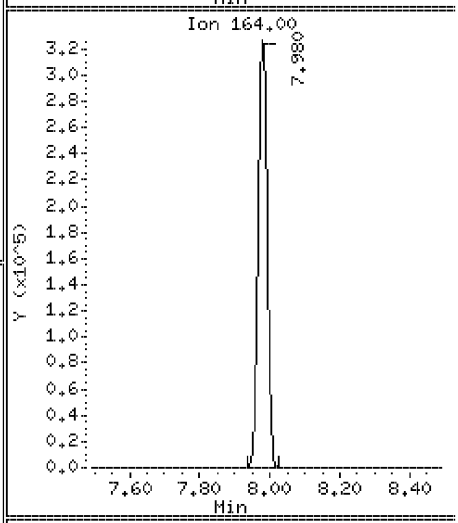


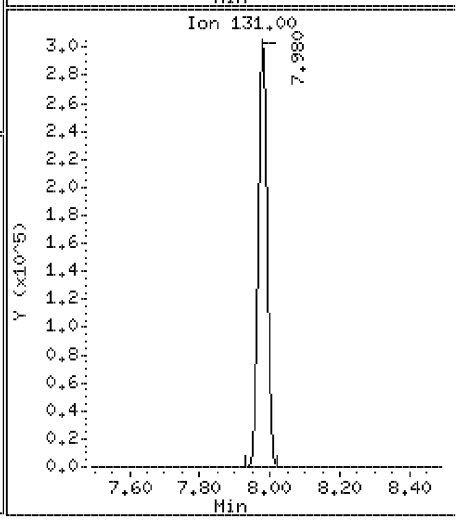












Data File: \\192.168.10.12\chem\10airB.i\033017.b/08947.D
Injection Date: 31-MAR-2017 10:50
Instrument: 10airB.i
Lab Sample ID: 10381335019
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_29.5_20170307 **Lab ID: 10381335020** Collected: 03/07/17 12:44 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<122**	ug/m3	353	122	146.4		03/31/17 07:53	67-64-1	
Allyl chloride	**<33.2**	ug/m3	233	33.2	146.4		03/31/17 07:53	107-05-1	
Benzene	**<17.9**	ug/m3	47.6	17.9	146.4		03/31/17 07:53	71-43-2	
Bromodichloromethane	**<28.4**	ug/m3	997	28.4	146.4		03/31/17 07:53	75-27-4	
Bromoform	**<132**	ug/m3	308	132	146.4		03/31/17 07:53	75-25-2	
Bromomethane	**<45.4**	ug/m3	116	45.4	146.4		03/31/17 07:53	74-83-9	
1,3-Butadiene	**<25.8**	ug/m3	65.9	25.8	146.4		03/31/17 07:53	106-99-0	
2-Butanone (MEK)	**<33.4**	ug/m3	439	33.4	146.4		03/31/17 07:53	78-93-3	
Carbon disulfide	**<14.8**	ug/m3	92.2	14.8	146.4		03/31/17 07:53	75-15-0	
Carbon tetrachloride	**<28.3**	ug/m3	93.7	28.3	146.4		03/31/17 07:53	56-23-5	
Chlorobenzene	**<19.6**	ug/m3	138	19.6	146.4		03/31/17 07:53	108-90-7	
Chlorodifluoromethane	**<40.4**	ug/m3	105	40.4	146.4		03/31/17 07:53	75-45-6	
Chloroethane	**<28.4**	ug/m3	79.1	28.4	146.4		03/31/17 07:53	75-00-3	
Chloroform	**116**	ug/m3	72.6	27.8	146.4		03/31/17 07:53	67-66-3	CH
Chloromethane	**<15.8**	ug/m3	61.5	15.8	146.4		03/31/17 07:53	74-87-3	
Chloropentafluoroethane	**<470**	ug/m3	470	470	146.4		03/31/17 07:53	76-15-3	
Cyclohexane	**<46.3**	ug/m3	102	46.3	146.4		03/31/17 07:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<719**	ug/m3	719	719	146.4		03/31/17 07:53	96-12-8	
Dibromochloromethane	**<125**	ug/m3	253	125	146.4		03/31/17 07:53	124-48-1	
1,2-Dibromoethane (EDB)	**<113**	ug/m3	228	113	146.4		03/31/17 07:53	106-93-4	
1,2-Dichlorobenzene	**<75.0**	ug/m3	179	75.0	146.4		03/31/17 07:53	95-50-1	
1,3-Dichlorobenzene	**<77.6**	ug/m3	179	77.6	146.4		03/31/17 07:53	541-73-1	
1,4-Dichlorobenzene	**<73.1**	ug/m3	447	73.1	146.4		03/31/17 07:53	106-46-7	
Dichlorodifluoromethane	**<70.3**	ug/m3	148	70.3	146.4		03/31/17 07:53	75-71-8	
1,1-Dichloroethane	**<23.0**	ug/m3	120	23.0	146.4		03/31/17 07:53	75-34-3	
1,2-Dichloroethane	**<30.0**	ug/m3	60.0	30.0	146.4		03/31/17 07:53	107-06-2	
1,1-Dichloroethene	**<34.8**	ug/m3	119	34.8	146.4		03/31/17 07:53	75-35-4	
cis-1,2-Dichloroethene	**29700**	ug/m3	119	36.0	146.4		03/31/17 07:53	156-59-2	
cis-1,2-Dichloroethene	**42300**	ug/m3	871	264	1075.2		04/01/17 20:45	156-59-2	
trans-1,2-Dichloroethene	**308**	ug/m3	119	56.2	146.4		03/31/17 07:53	156-60-5	CH,L1
1,2-Dichloropropane	**<39.5**	ug/m3	138	39.5	146.4		03/31/17 07:53	78-87-5	
cis-1,3-Dichloropropene	**<54.0**	ug/m3	135	54.0	146.4		03/31/17 07:53	10061-01-5	
trans-1,3-Dichloropropene	**<38.1**	ug/m3	135	38.1	146.4		03/31/17 07:53	10061-02-6	
Dichlorotetrafluoroethane	**<45.4**	ug/m3	208	45.4	146.4		03/31/17 07:53	76-14-2	
Freon 123	**<466**	ug/m3	466	466	146.4		03/31/17 07:53	306-83-2	
1,4-Dioxane (p-Dioxane)	**<51.5**	ug/m3	536	51.5	146.4		03/31/17 07:53	123-91-1	
Ethylbenzene	**<62.2**	ug/m3	129	62.2	146.4		03/31/17 07:53	100-41-4	
4-Ethyltoluene	**<27.5**	ug/m3	146	27.5	146.4		03/31/17 07:53	622-96-8	
Hexachloro-1,3-butadiene	**<95.2**	ug/m3	317	95.2	146.4		03/31/17 07:53	87-68-3	
n-Hexane	**<52.3**	ug/m3	105	52.3	146.4		03/31/17 07:53	110-54-3	
2-Hexanone	**<60.0**	ug/m3	610	60.0	146.4		03/31/17 07:53	591-78-6	
Isopropylbenzene (Cumene)	**<20.2**	ug/m3	366	20.2	146.4		03/31/17 07:53	98-82-8	
Methyl acetate	**<225**	ug/m3	225	225	146.4		03/31/17 07:53	79-20-9	
Methylcyclohexane	**<35.4**	ug/m3	119	35.4	146.4		03/31/17 07:53	108-87-2	
Methylene Chloride	**<79.3**	ug/m3	517	79.3	146.4		03/31/17 07:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<31.8**	ug/m3	610	31.8	146.4		03/31/17 07:53	108-10-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D
Report Date: 04-Apr-2017 13:05

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08941.D
Lab Smp Id: 10381335020
Inj Date : 31-MAR-2017 07:53
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28049
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 04-Apr-2017 12:52 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 41
Dil Factor: 146.40000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	146.400	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	3.076	3.066	(0.544)	10685	0.22983	33.6(Q)	
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	4.009	4.018	(0.709)	450590	5.10752	748	
23	Methyl Acetate	43	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D
Report Date: 04-Apr-2017 13:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.311	4.343	(0.762)	21590	0.52170	76.4	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.549	4.548	(0.804)	1065905	12.5284	12.5	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.771	4.796	(0.844)	2407188	50.3310	7370(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.883	4.915	(0.864)	15578	0.15898	23.3	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.279	5.291	(0.933)	19708	0.16986	24.9	
	42 1,2-Dichloroethane	62	Compound Not Detected.						(D)
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.655	5.674	(1.000)	2228365	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	6.024	6.047	(1.065)	1476886	17.2957	2530	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.108	7.121	(1.257)	1777008	9.44451	9.44	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	8.031	8.021	(0.926)	9207893	91.9537	13500(A)	
*	67 Chlorobenzene - d5	117	8.677	8.677	(1.000)	1229652	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D
Report Date: 04-Apr-2017 13:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.863	11.870	(1.367)	439888	7.84616	7.85	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D
Report Date: 04-Apr-2017 13:05

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08941.D
Lab Smp Id: 10381335020
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info: 28049

Calibration Date: 31-MAR-2017
Calibration Time: 03:32
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

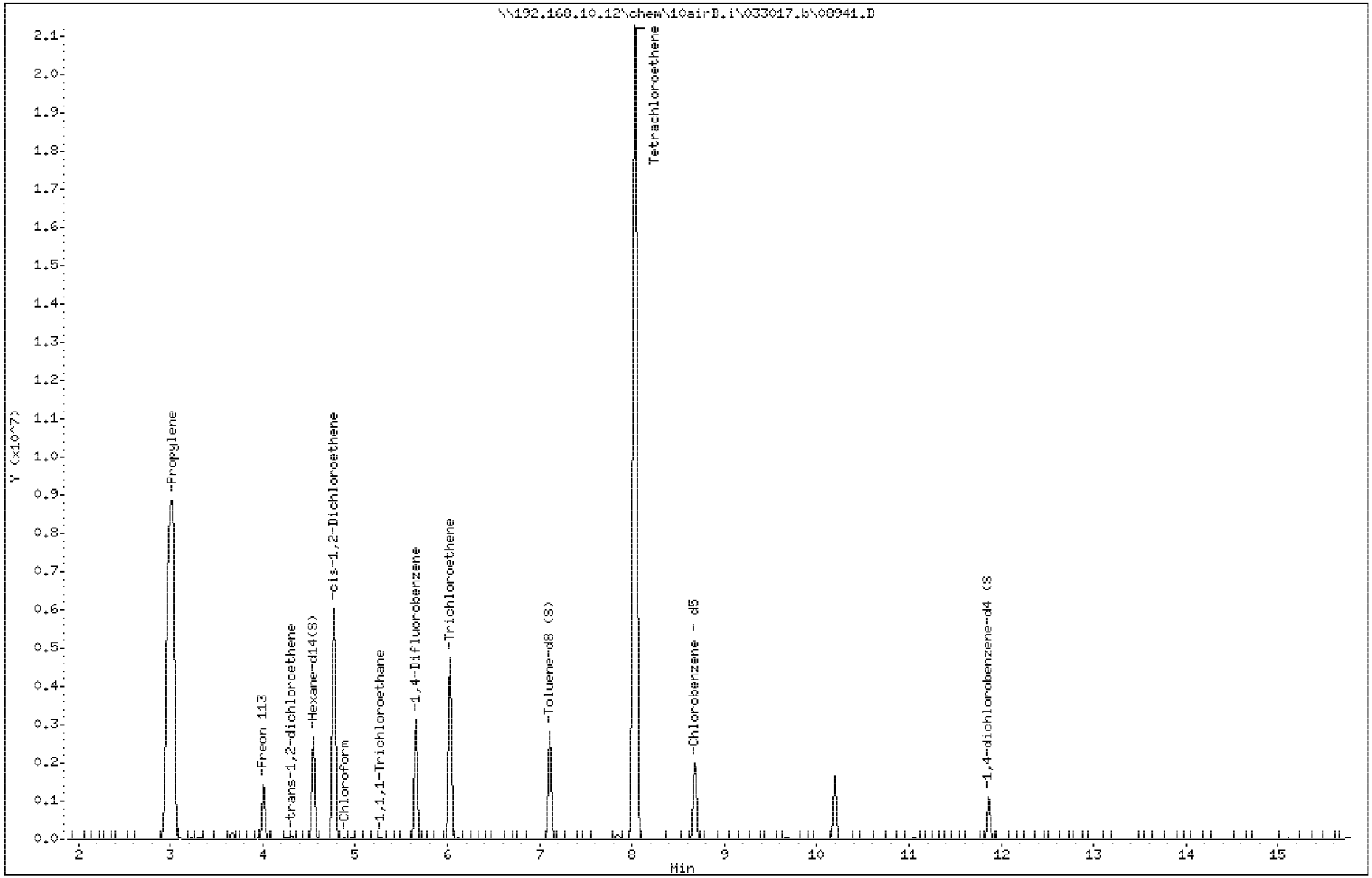
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	2228365	22.27
67 Chlorobenzene - d	1204744	722846	1686642	1229652	2.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.67	5.34	6.00	5.66	-0.34
67 Chlorobenzene - d	8.68	8.35	9.01	8.68	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D
Date : 31-MAR-2017 07:53
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D

Date : 31-MAR-2017 07:53

Client ID:

Instrument: 10airB.i

Sample Info:

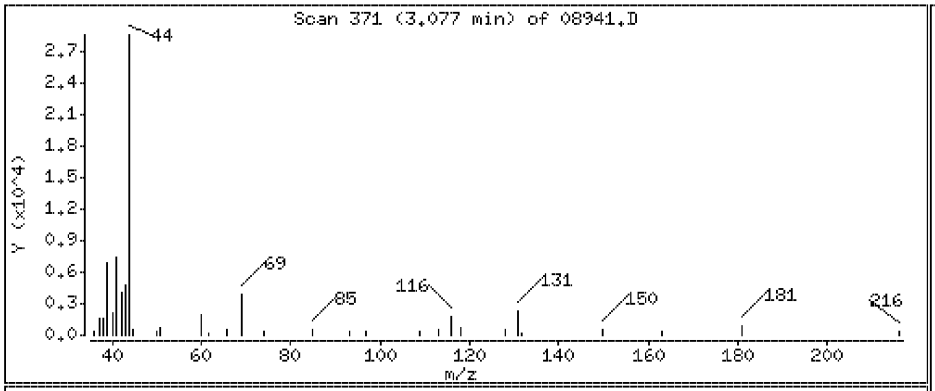
Operator: NCK

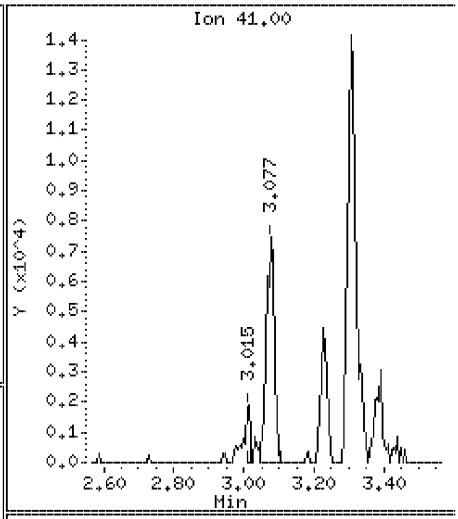
Column phase: J&W DB-5

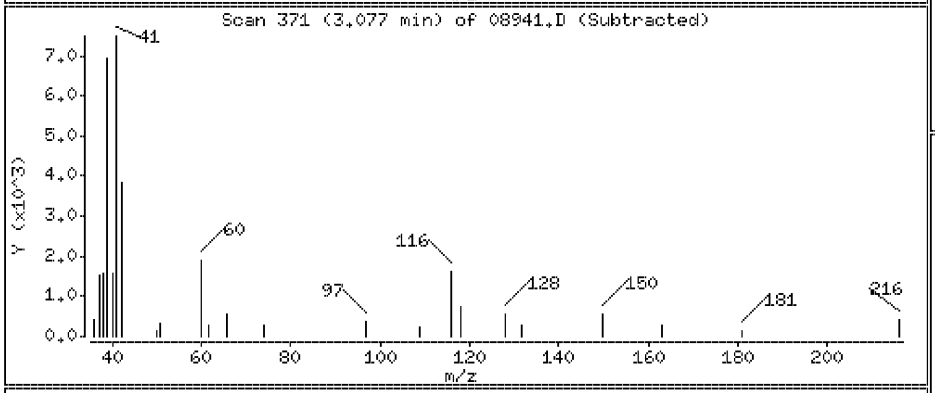
Column diameter: 0.32

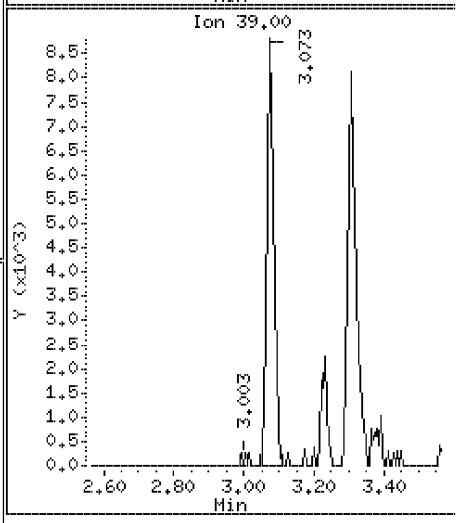
4 Propylene

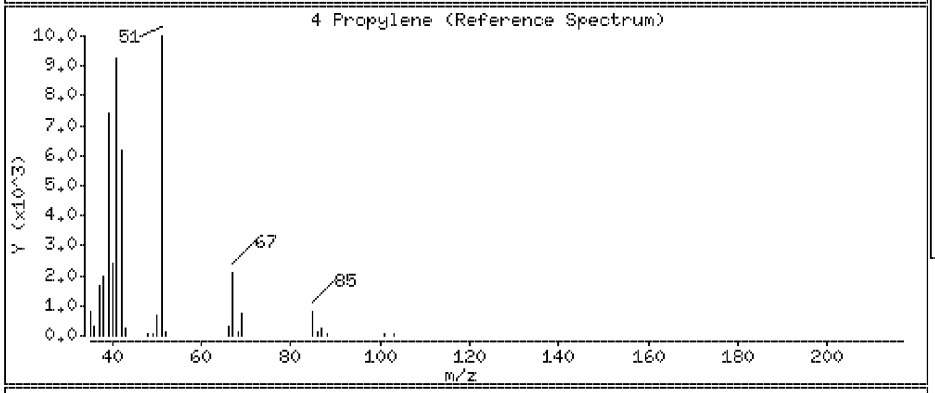
Concentration: 33.6 ppbv

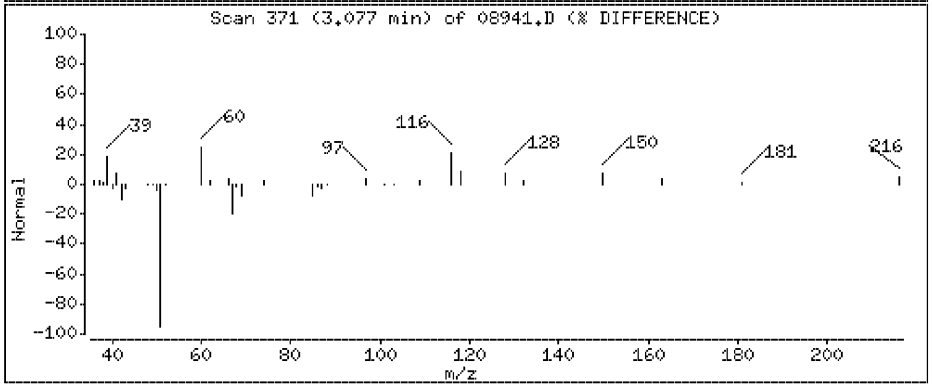












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D

Date : 31-MAR-2017 07:53

Client ID:

Instrument: 10airB.i

Sample Info:

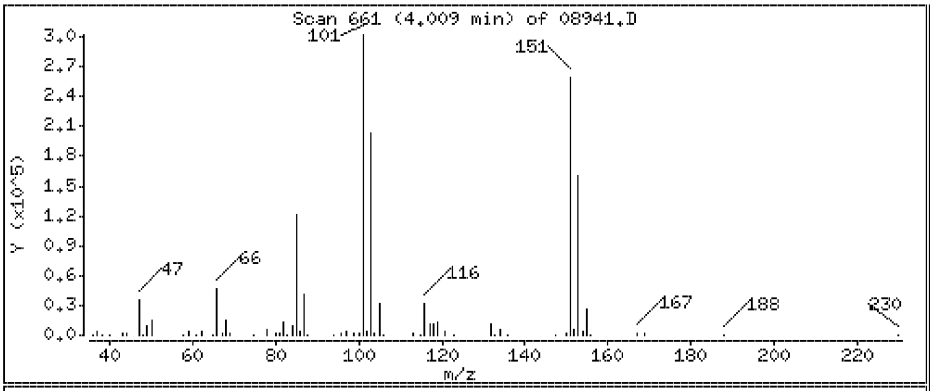
Operator: NCK

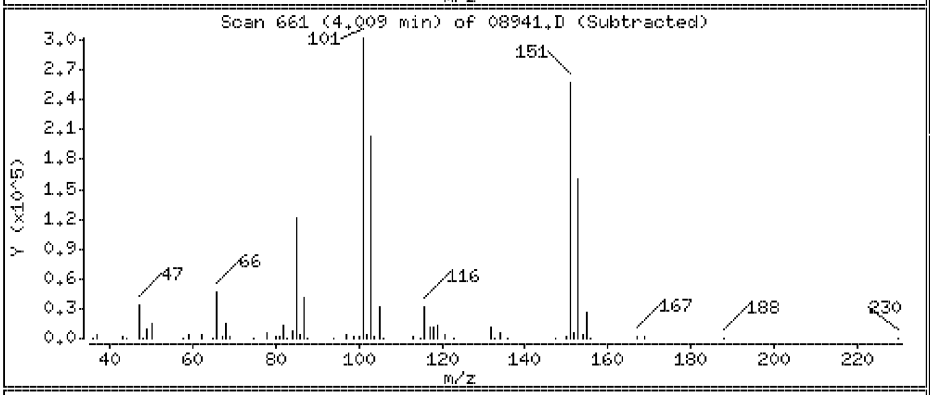
Column phase: J&W DB-5

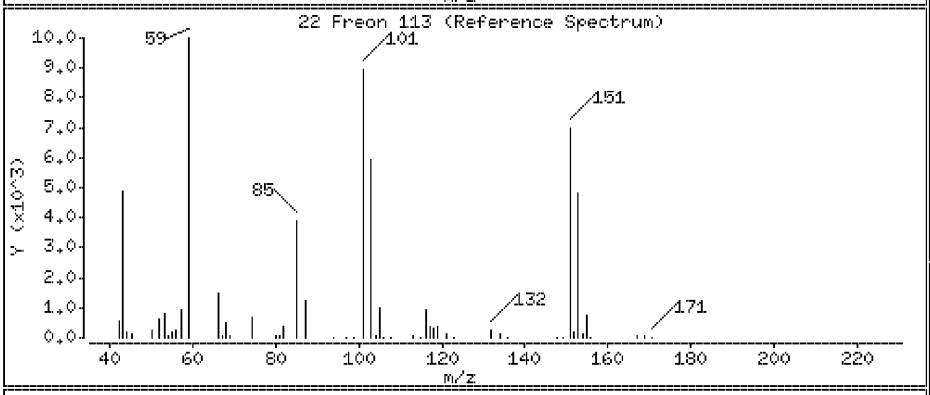
Column diameter: 0.32

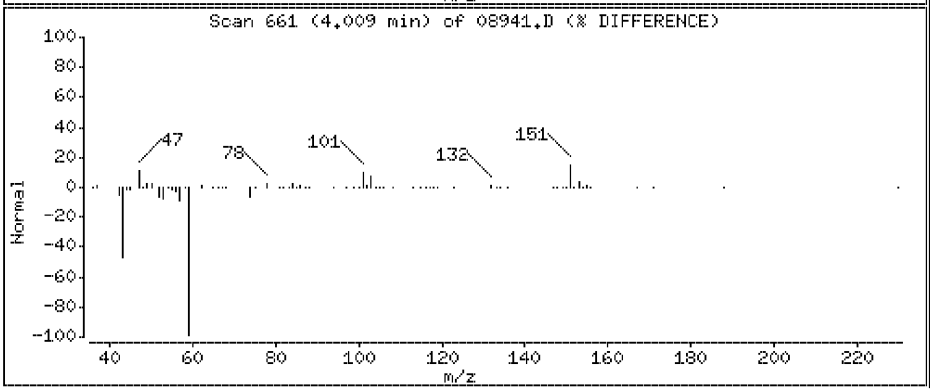
22 Freon 113

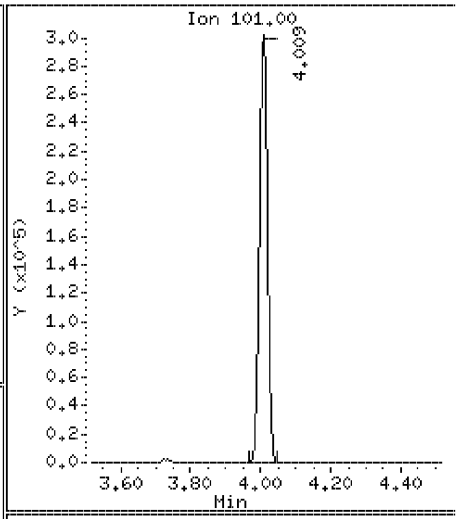
Concentration: 748 ppbv

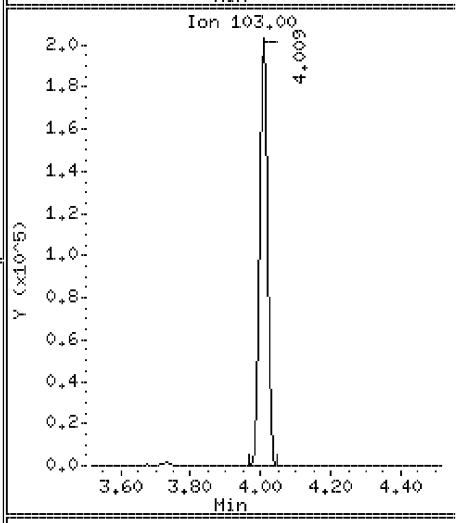


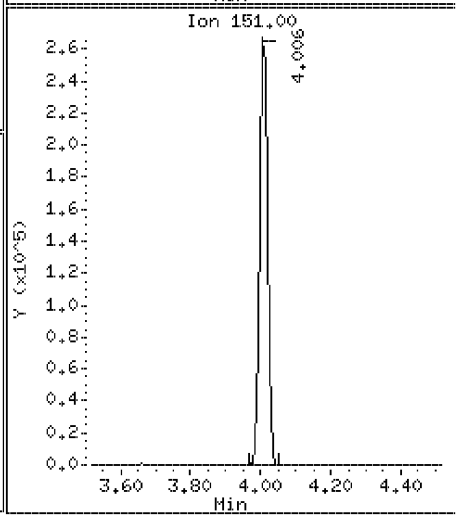












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D

Date : 31-MAR-2017 07:53

Client ID:

Instrument: 10airB.i

Sample Info:

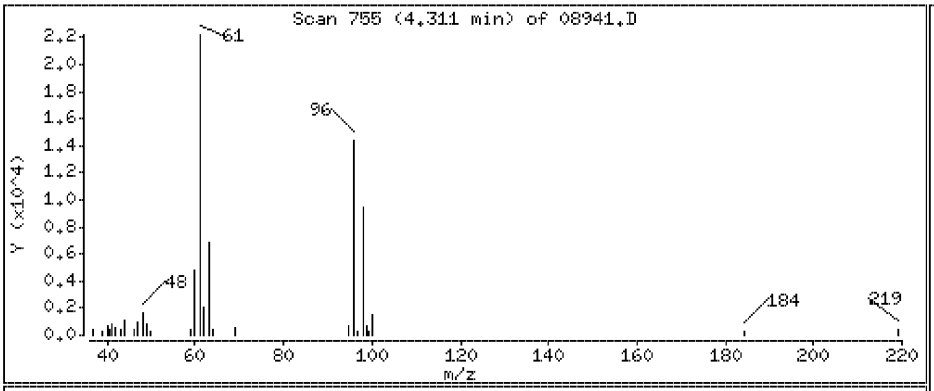
Operator: NCK

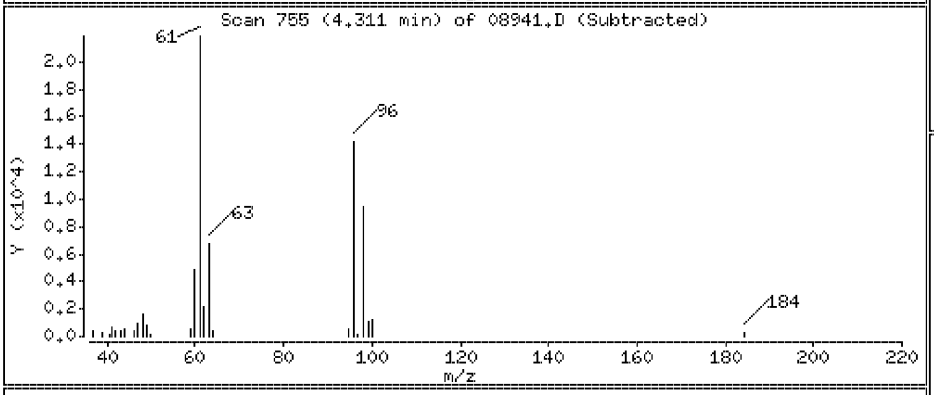
Column phase: J&W DB-5

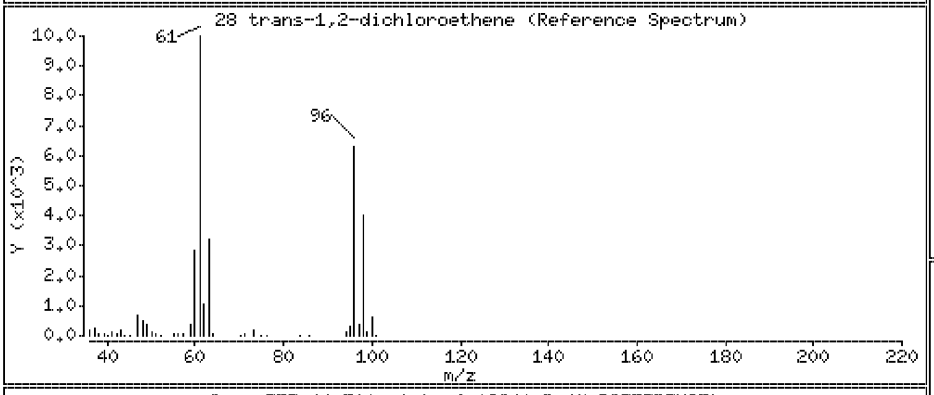
Column diameter: 0.32

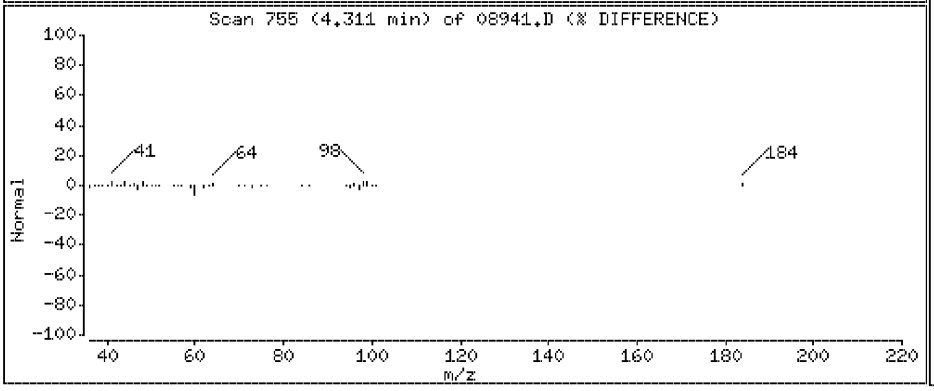
28 trans-1,2-dichloroethene

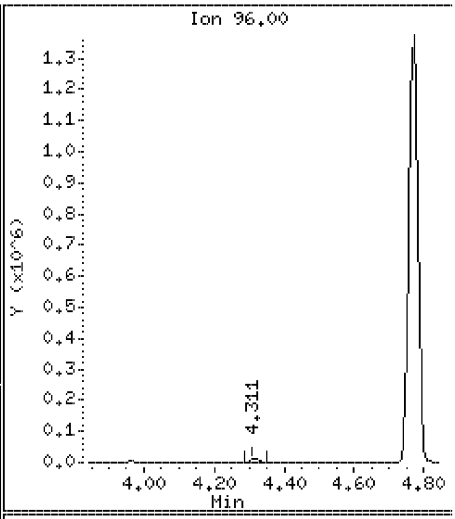
Concentration: 76.4 ppbv

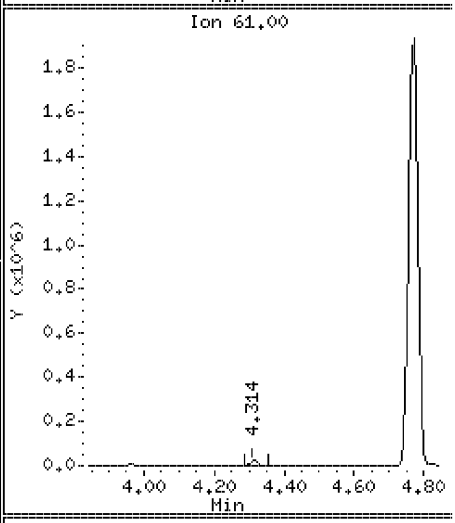


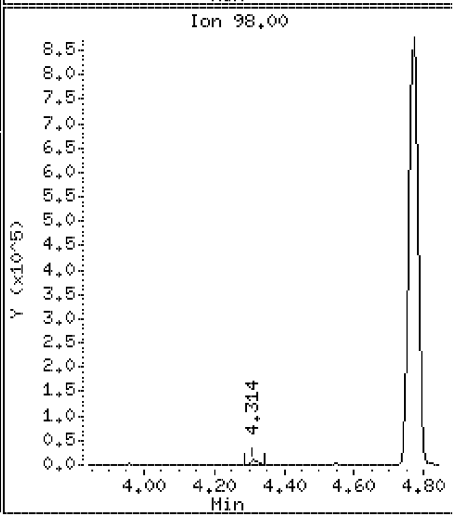












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D

Date : 31-MAR-2017 07:53

Client ID:

Instrument: 10airB.i

Sample Info:

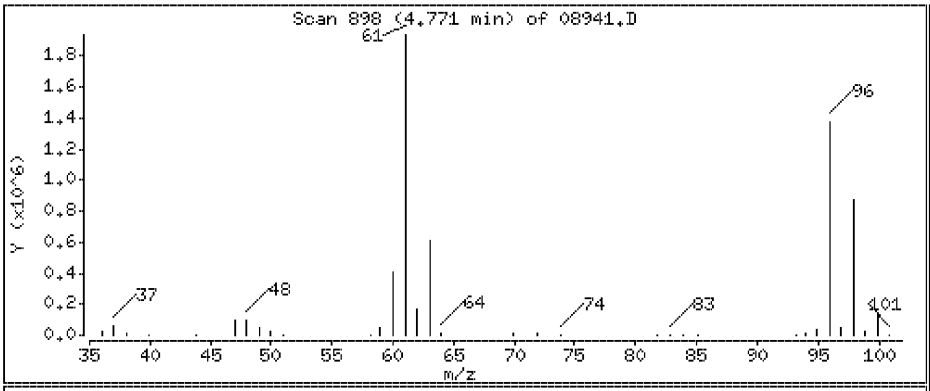
Operator: NCK

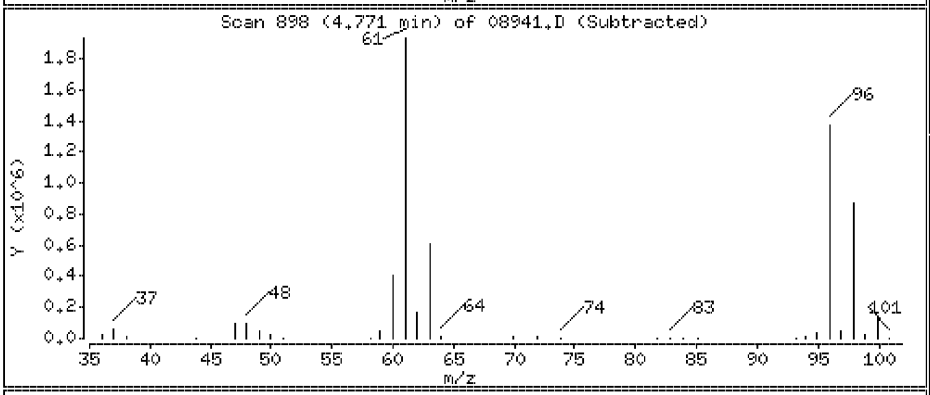
Column phase: J&W DB-5

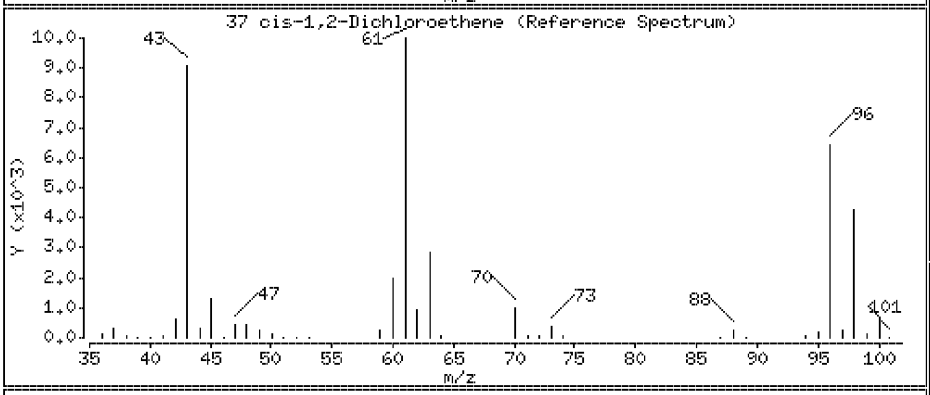
Column diameter: 0.32

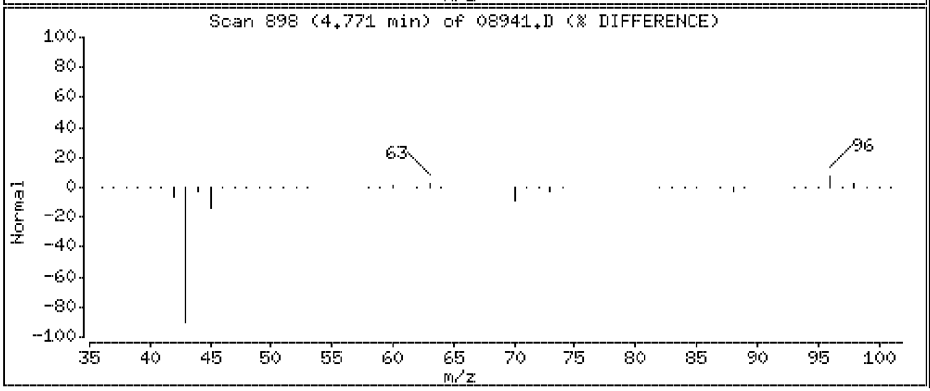
37 cis-1,2-Dichloroethene

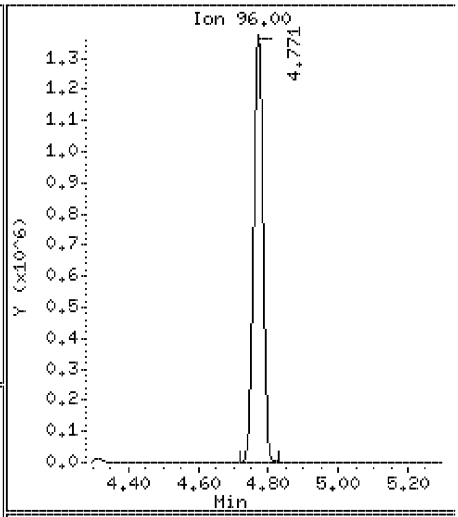
Concentration: 7370 ppbv

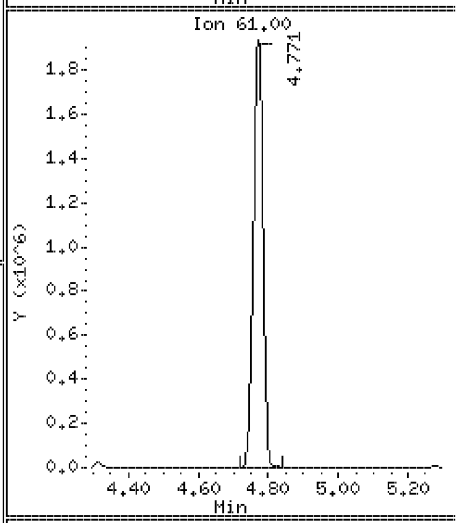


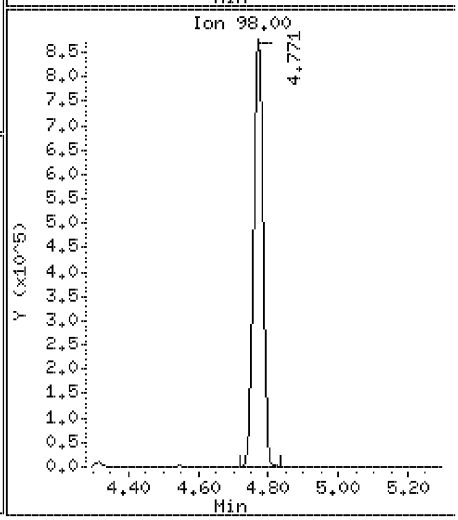












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D

Date : 31-MAR-2017 07:53

Client ID:

Instrument: 10airB.i

Sample Info:

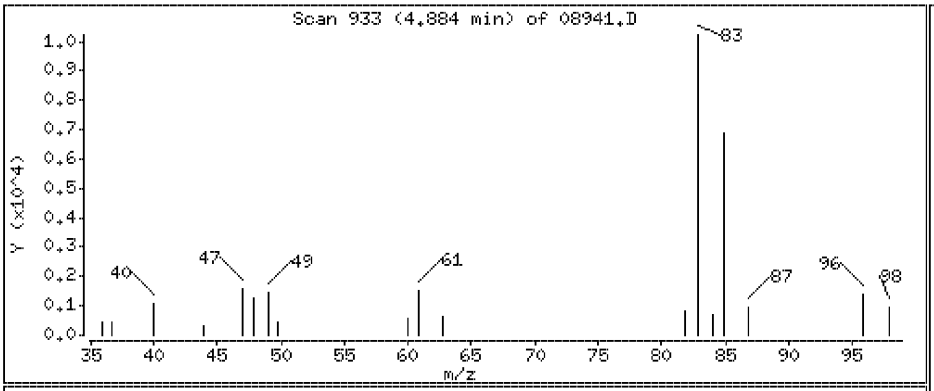
Operator: NCK

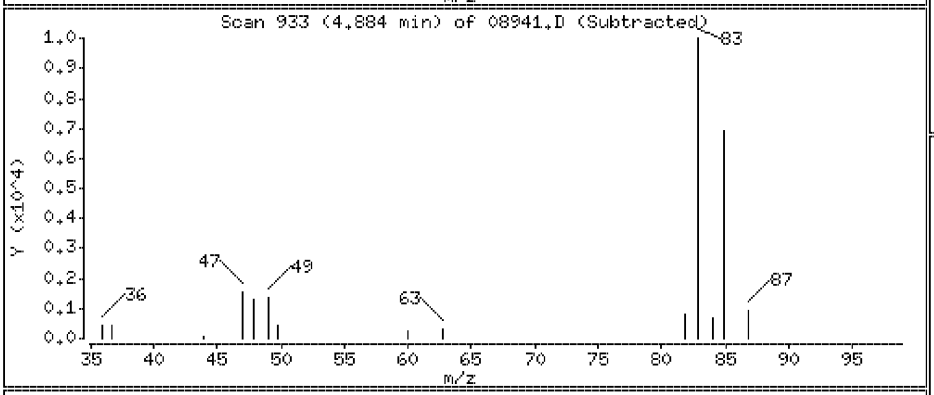
Column phase: J&W DB-5

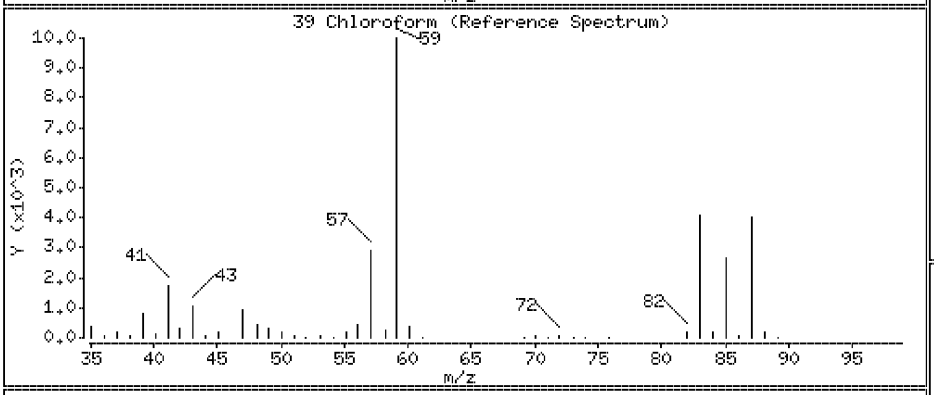
Column diameter: 0.32

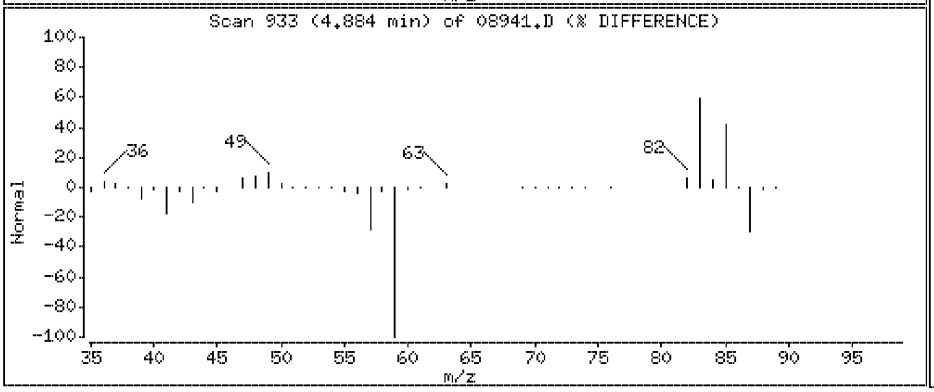
39 Chloroform

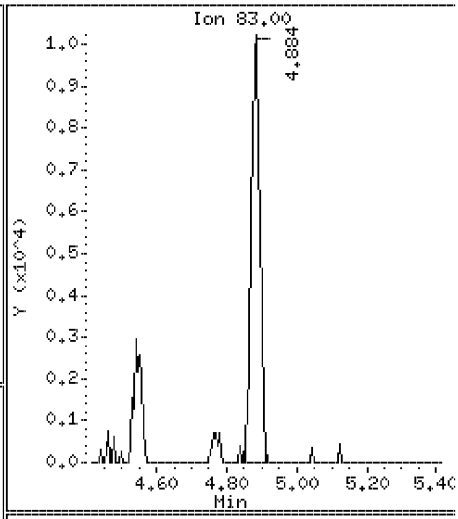
Concentration: 23.3 ppbv

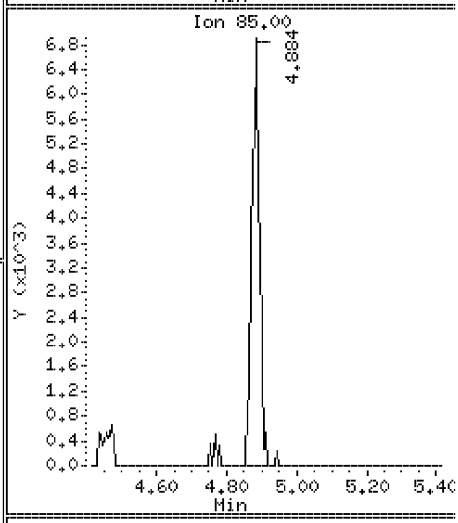


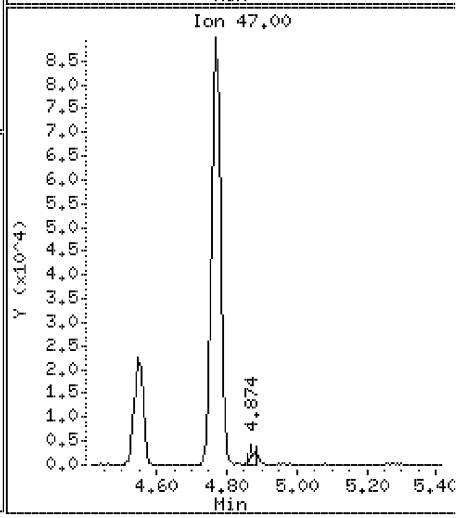












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D

Date : 31-MAR-2017 07:53

Client ID:

Instrument: 10airB.i

Sample Info:

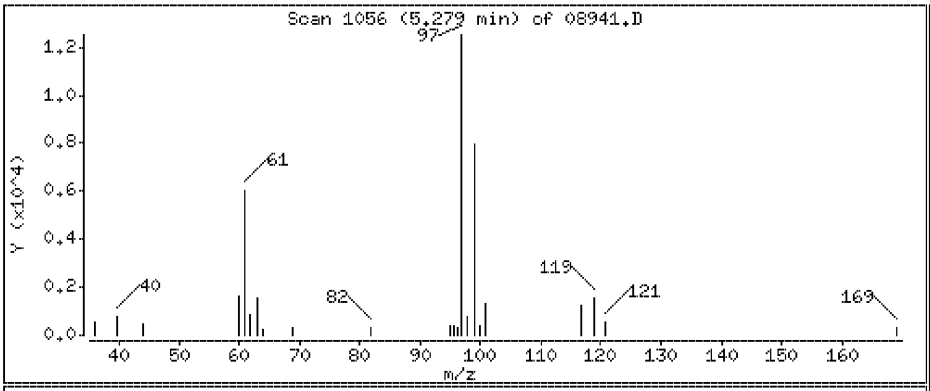
Operator: NCK

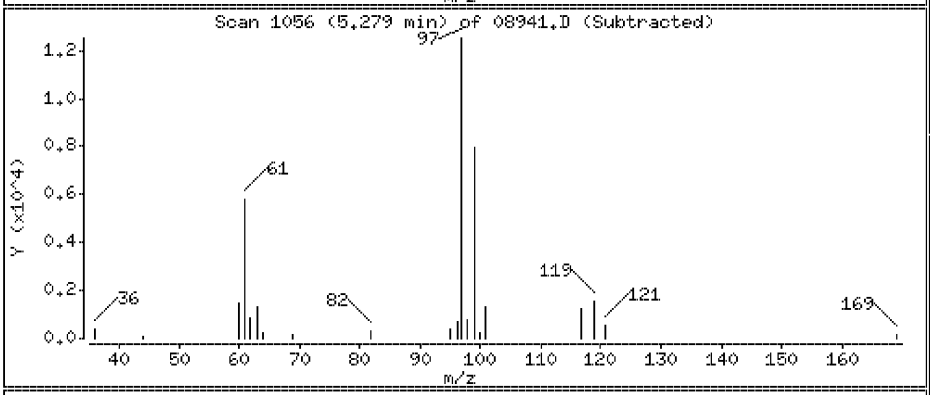
Column phase: J&W DB-5

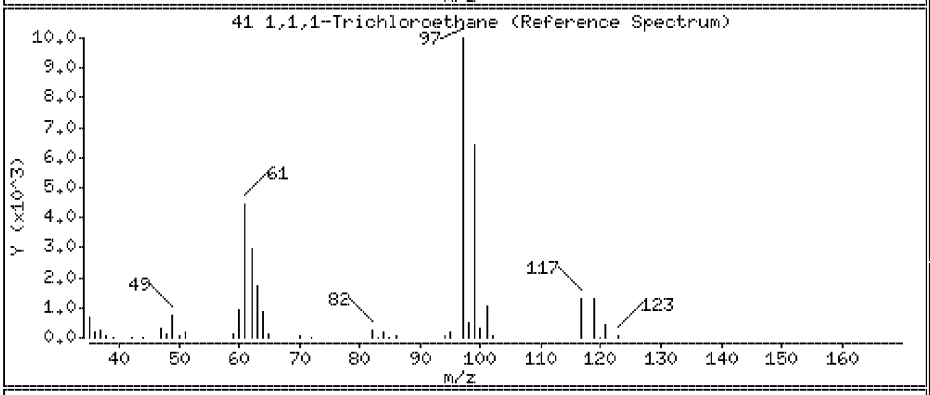
Column diameter: 0.32

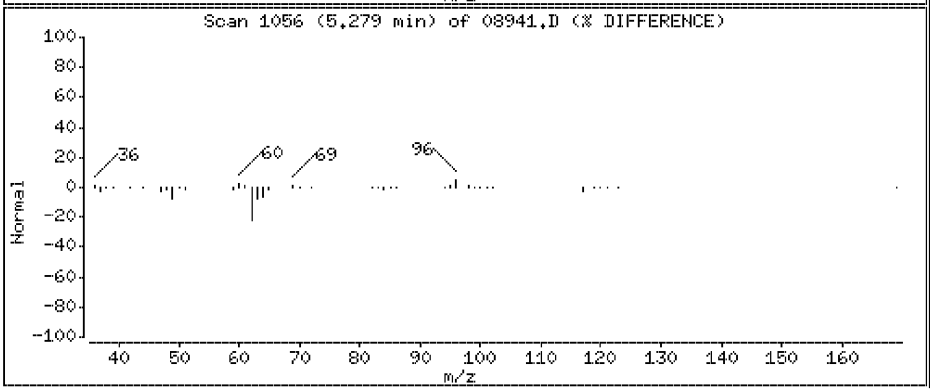
41 1,1,1-Trichloroethane

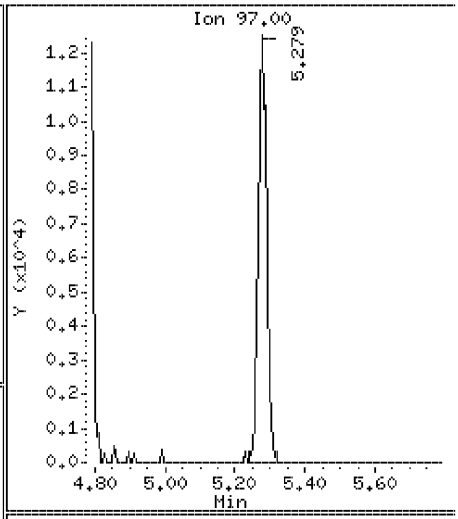
Concentration: 24.9 ppbv

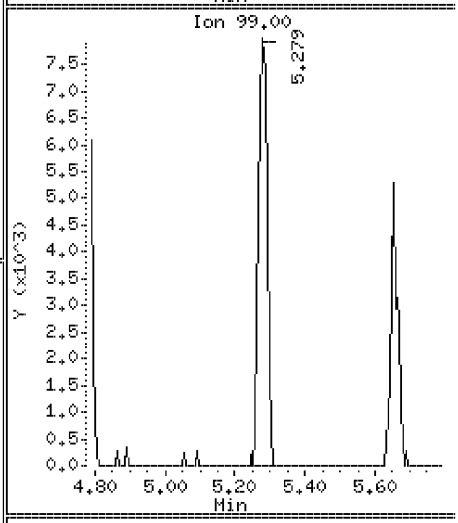


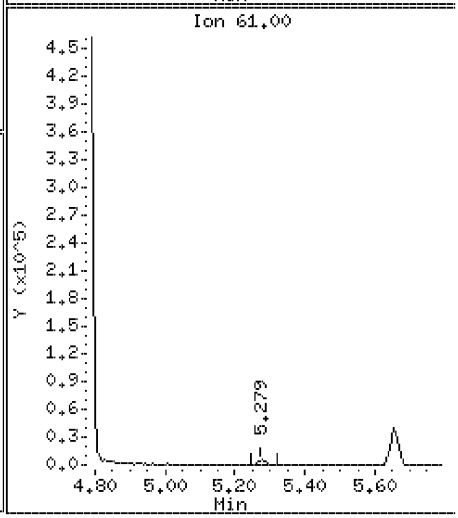












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D

Date : 31-MAR-2017 07:53

Client ID:

Instrument: 10airB.i

Sample Info:

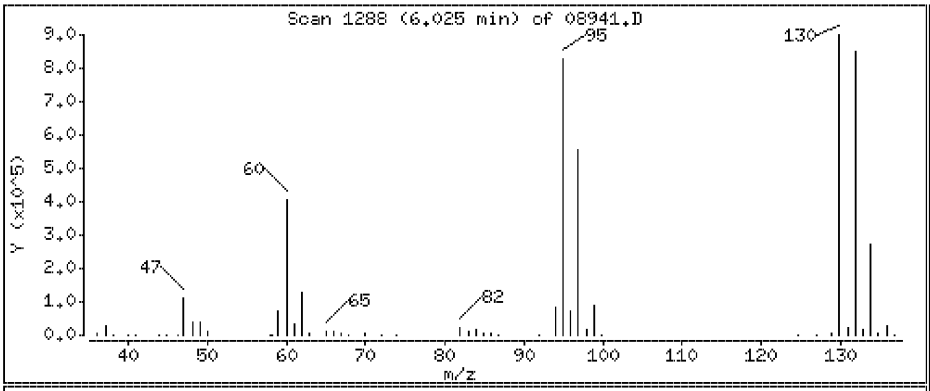
Operator: NCK

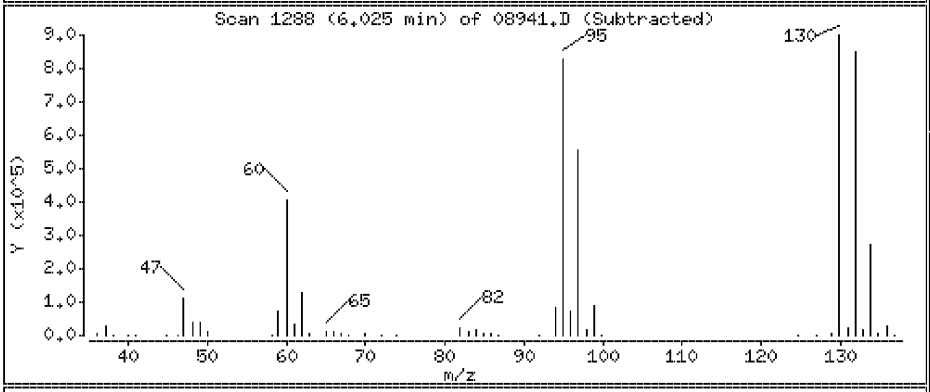
Column phase: J&W DB-5

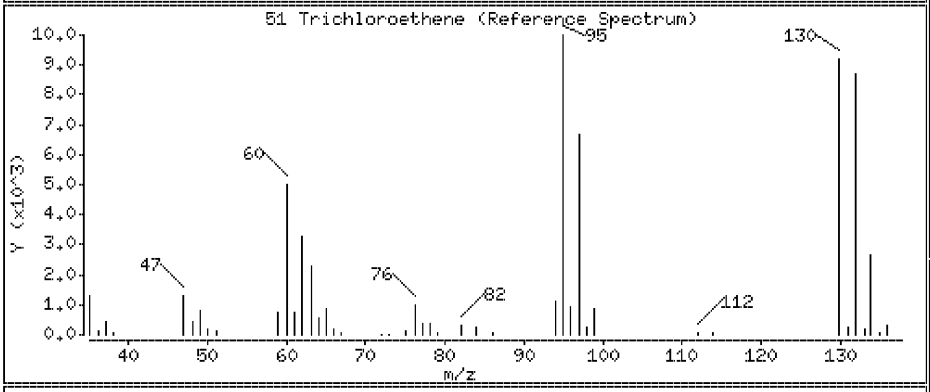
Column diameter: 0.32

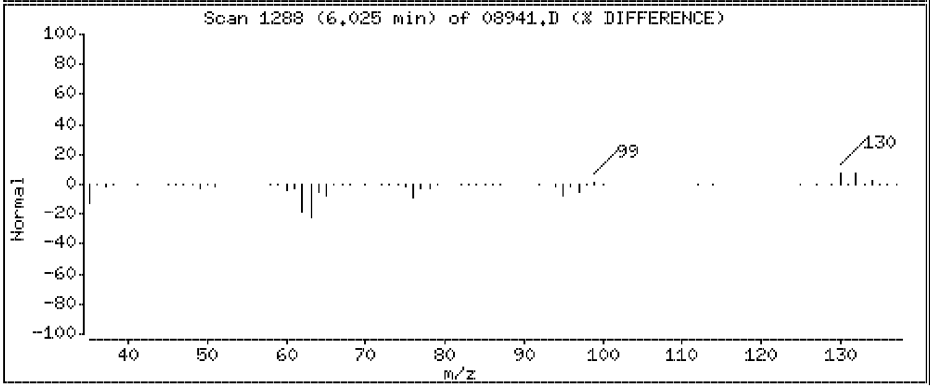
51 Trichloroethene

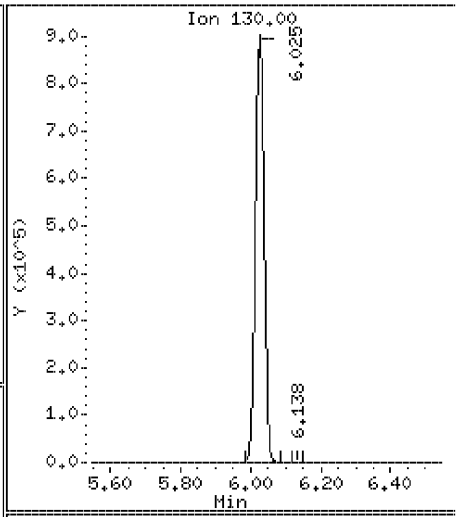
Concentration: 2530 ppbv

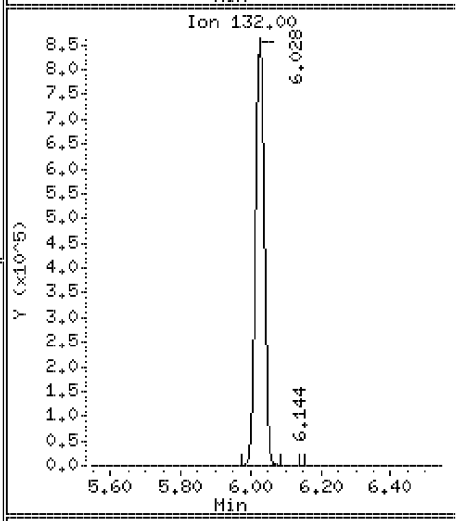


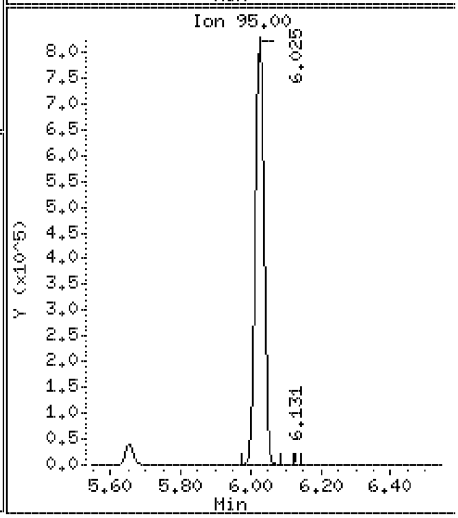












Data File: \\192.168.10.12\chem\10airB.i\033017.b\08941.D

Date : 31-MAR-2017 07:53

Client ID:

Instrument: 10airB.i

Sample Info:

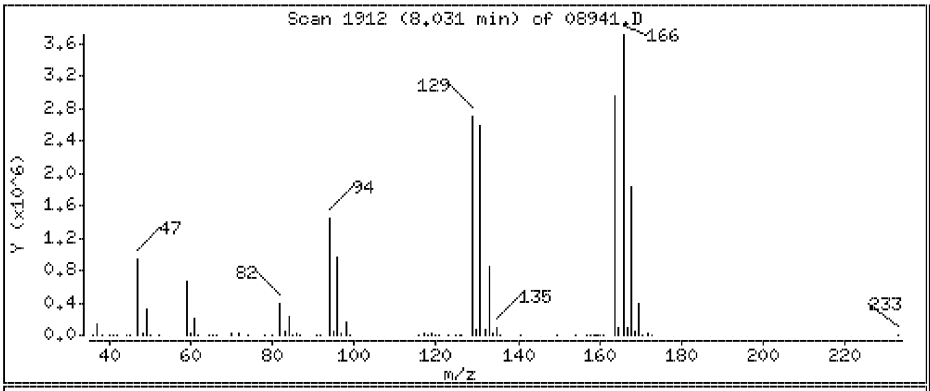
Operator: NCK

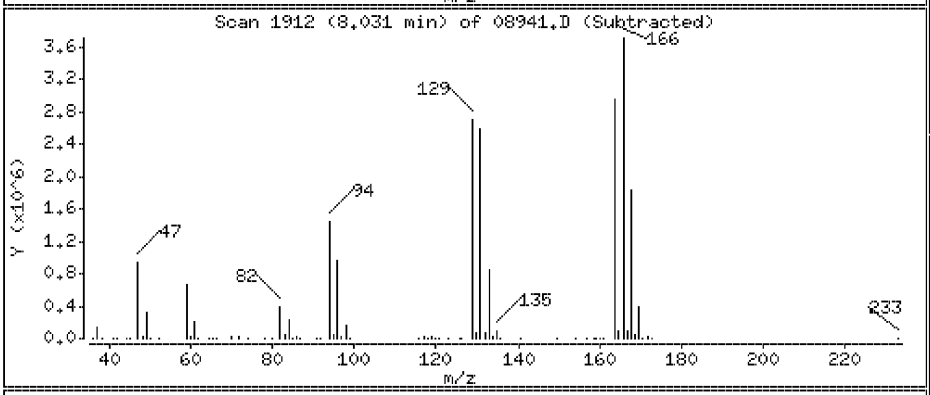
Column phase: J&W DB-5

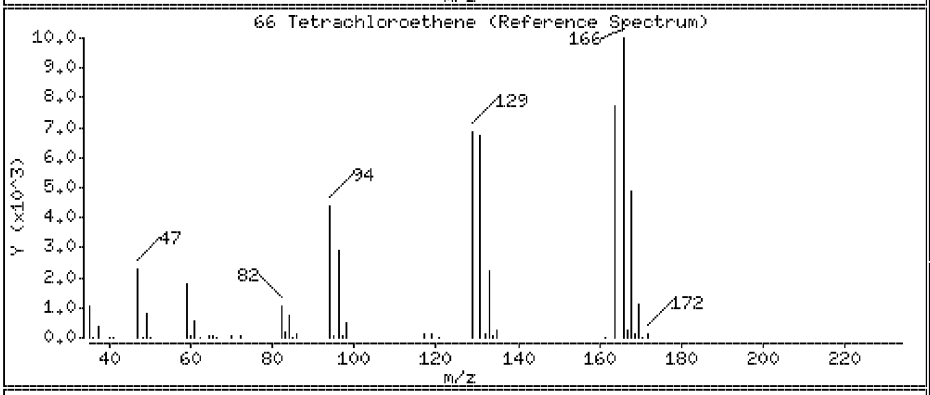
Column diameter: 0.32

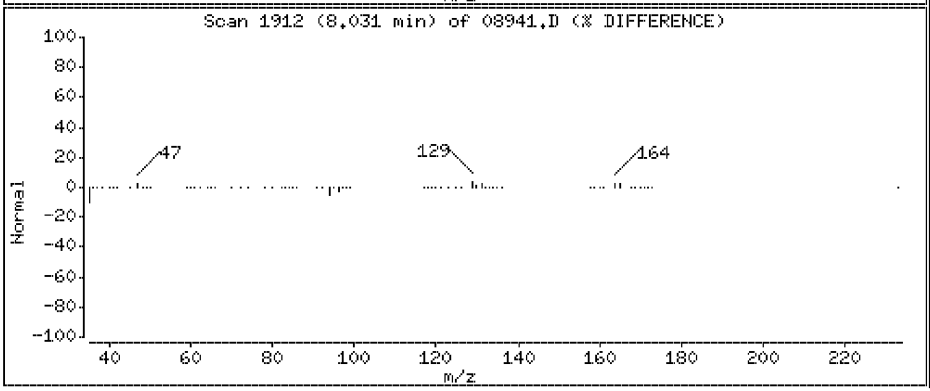
66 Tetrachloroethene

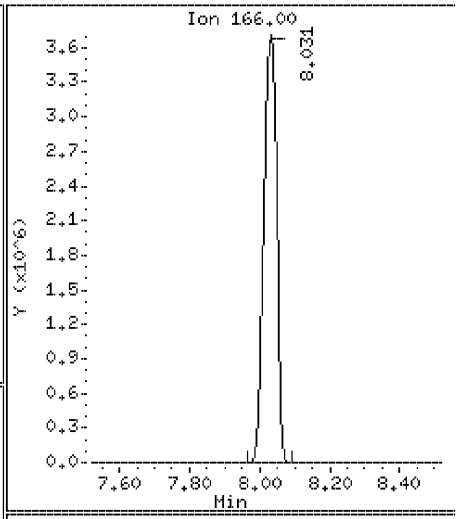
Concentration: 13500 ppbv

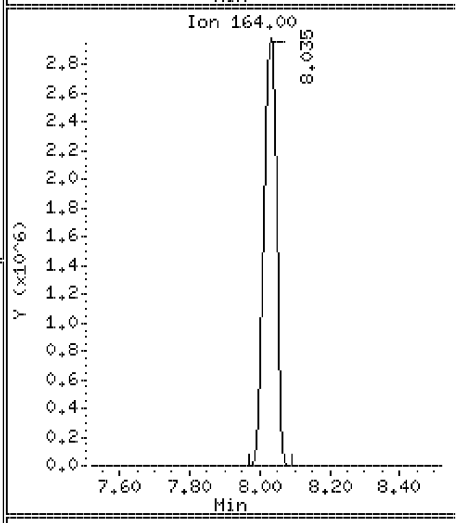


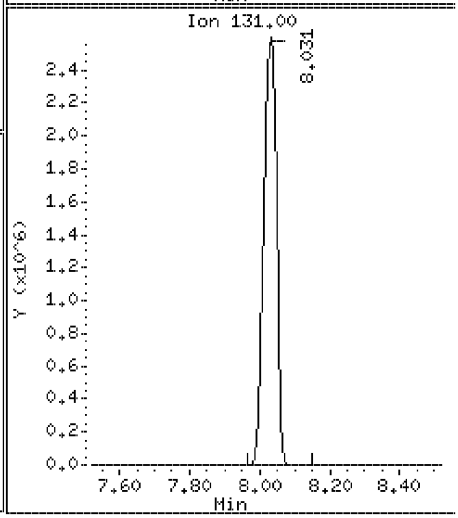












Data File: \\192.168.10.12\chem\10airB.i\033017.b/08941.D
Injection Date: 31-MAR-2017 07:53
Instrument: 10airB.i
Lab Sample ID: 10381335020
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09127.D
Report Date: 04-Apr-2017 11:37

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040117.b\09127.D
Lab Smp Id: 10381335020
Inj Date : 01-APR-2017 20:45
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28049
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m
Meth Date : 03-Apr-2017 11:47 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 27
Dil Factor: 1075.20000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1075.200	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.938	3.944	(0.703)	73870	0.90777	976	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09127.D
Report Date: 04-Apr-2017 11:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.484	(0.801)	738881	9.91514	9.92	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.703	4.725	(0.840)	418132	9.76961	10500(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1975328	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.989	(1.067)	312825	3.90448	4200	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.262)	1600251	9.66938	9.67	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.983	(0.924)	2745170	28.1667	30300	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	1100695	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09127.D
Report Date: 04-Apr-2017 11:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	380939	7.65938	7.66
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09127.D
Report Date: 04-Apr-2017 11:37

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09127.D
Lab Smp Id: 10381335020
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m
Misc Info: 28049

Calibration Date: 01-APR-2017
Calibration Time: 07:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

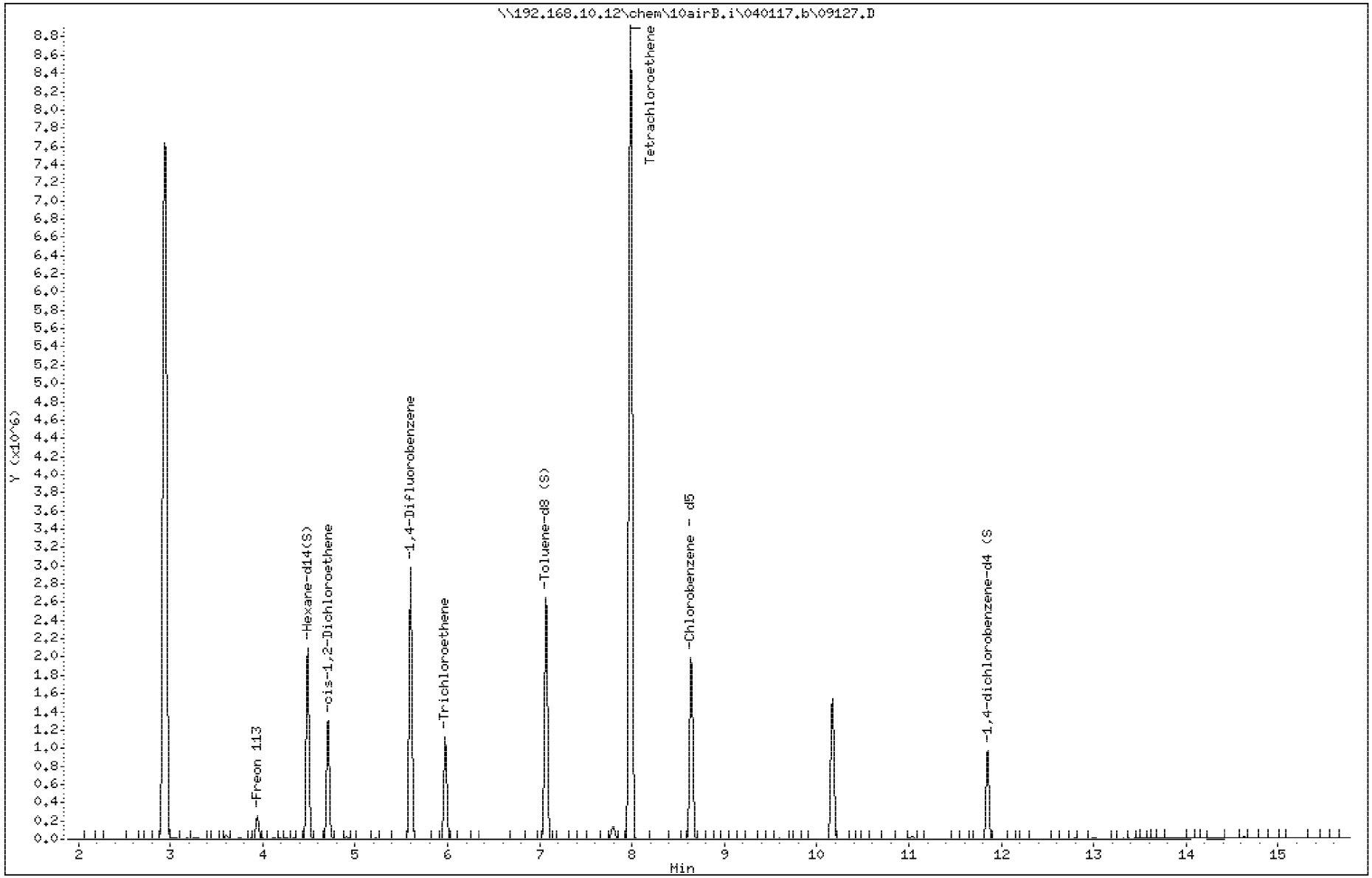
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1975328	1.99
67 Chlorobenzene - d	1173864	704318	1643410	1100695	-6.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09127.D
Date : 01-APR-2017 20:45
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040117.b\09127.D

Date : 01-APR-2017 20:45

Client ID:

Instrument: 10airB.i

Sample Info:

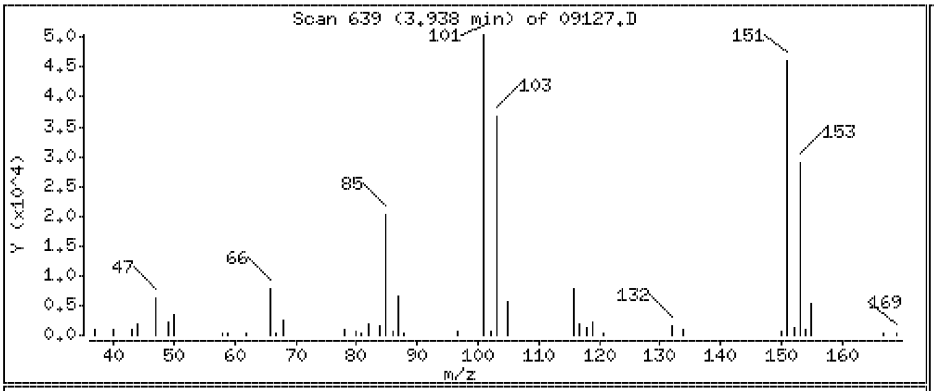
Operator: NCK

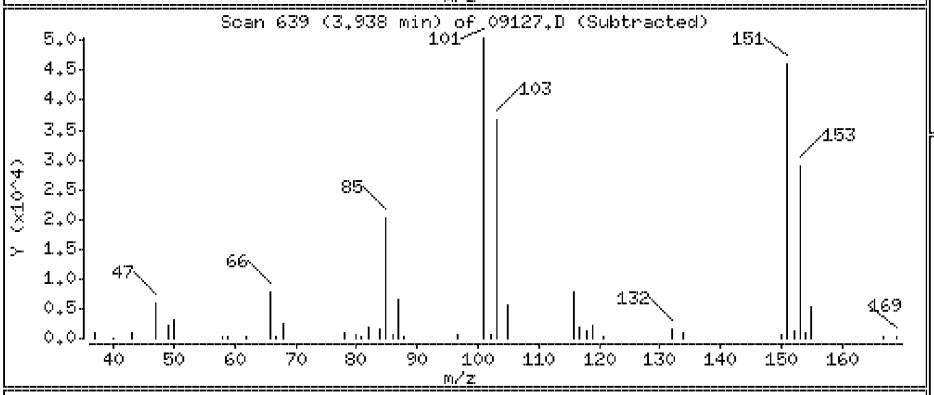
Column phase: J&W DB-5

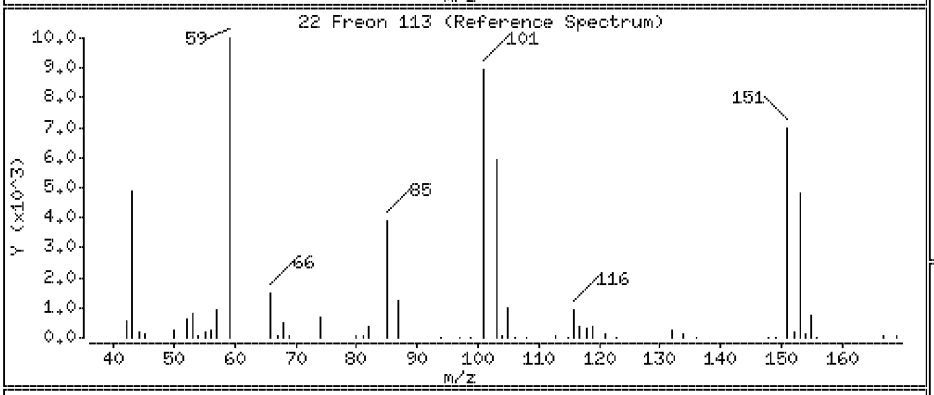
Column diameter: 0.32

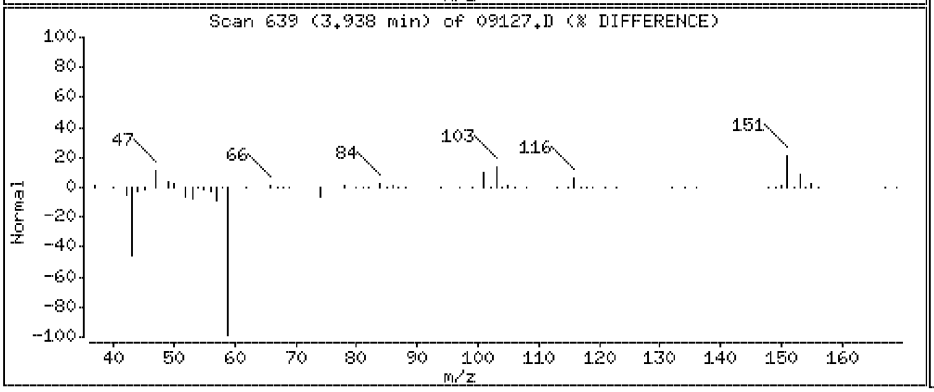
22 Freon 113

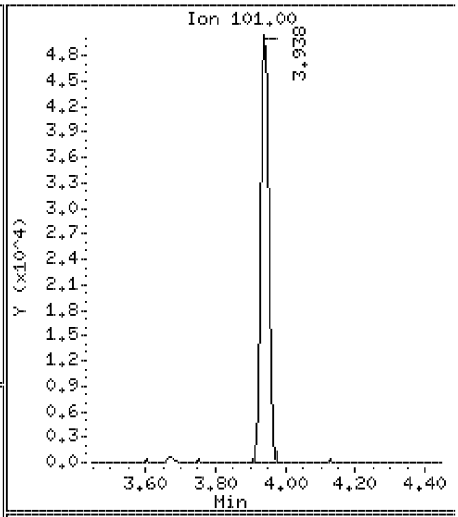
Concentration: 976 ppbv

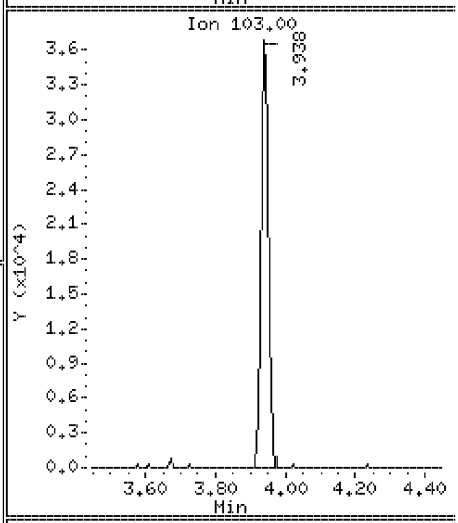


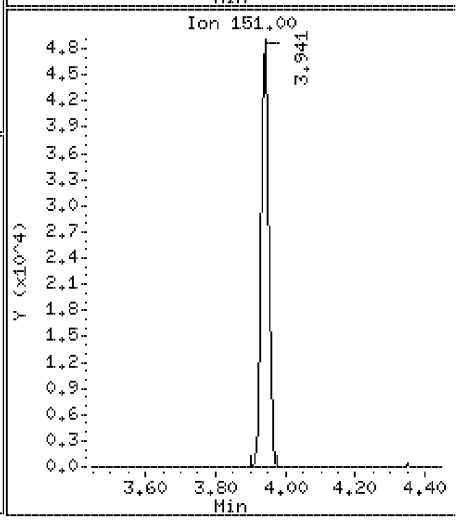












Data File: \\192.168.10.12\chem\10airB.i\040117.b\09127.D

Date : 01-APR-2017 20:45

Client ID:

Instrument: 10airB.i

Sample Info:

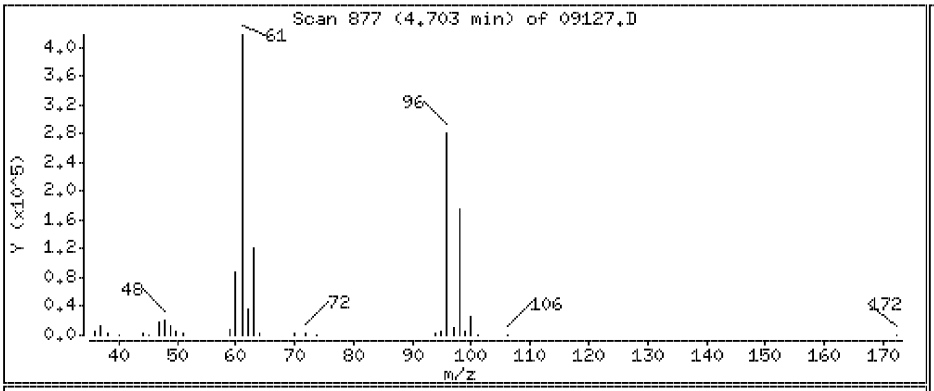
Operator: NCK

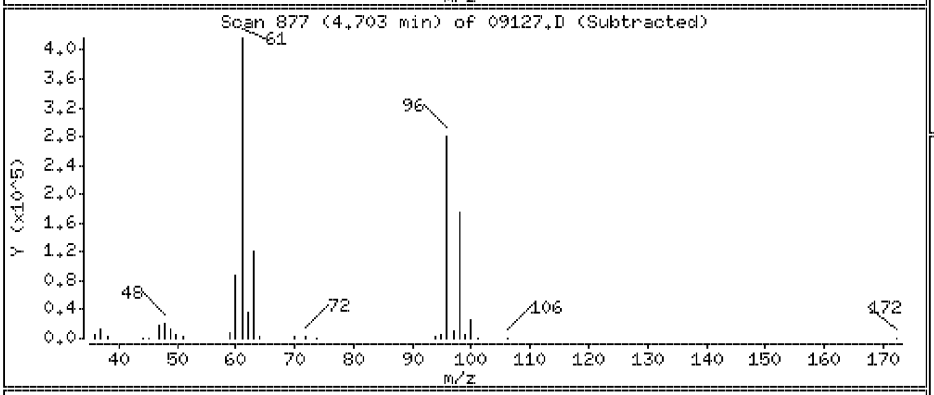
Column phase: J&W DB-5

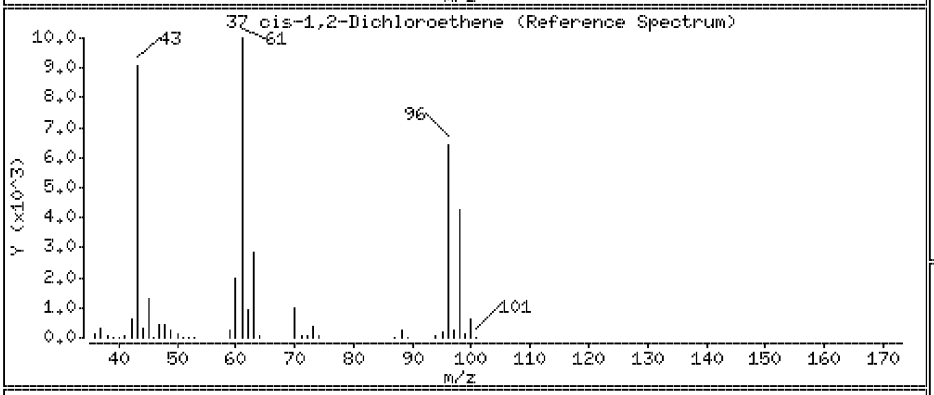
Column diameter: 0.32

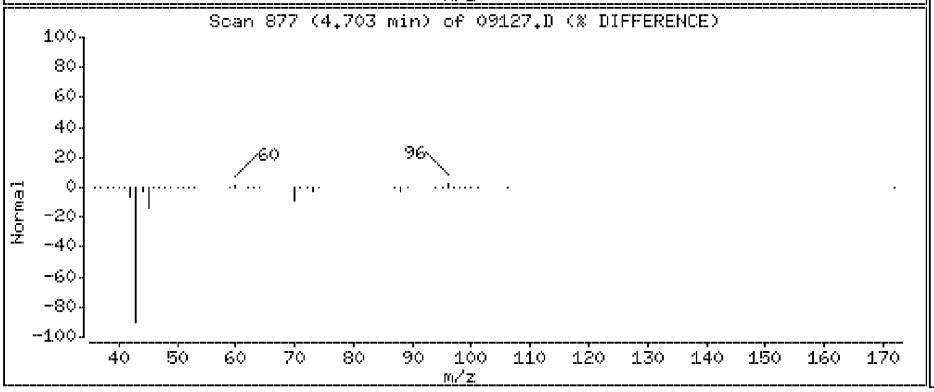
37 cis-1,2-Dichloroethene

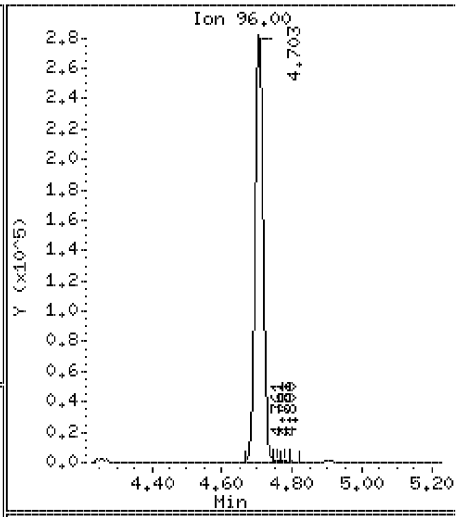
Concentration: 10500 ppbv

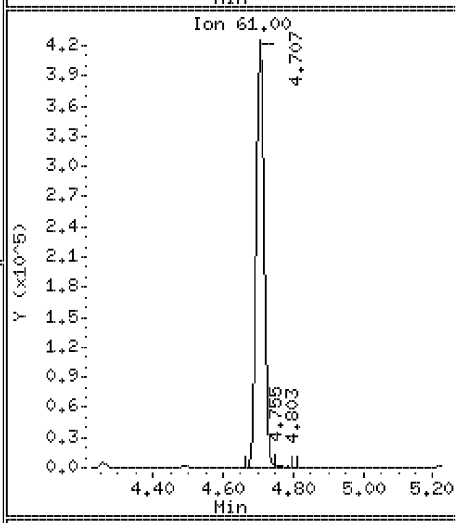


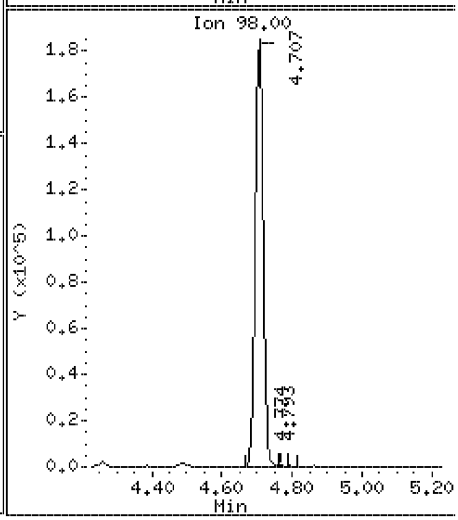












Data File: \\192.168.10.12\chem\10airB.i\040117.b\09127.D

Date : 01-APR-2017 20:45

Client ID:

Instrument: 10airB.i

Sample Info:

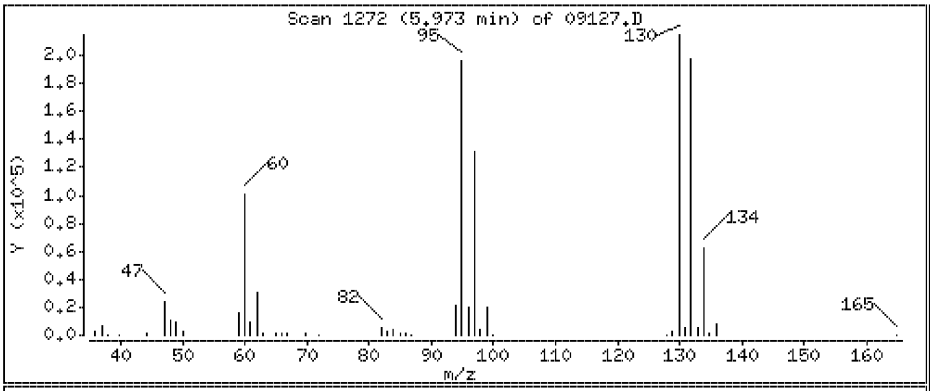
Operator: NCK

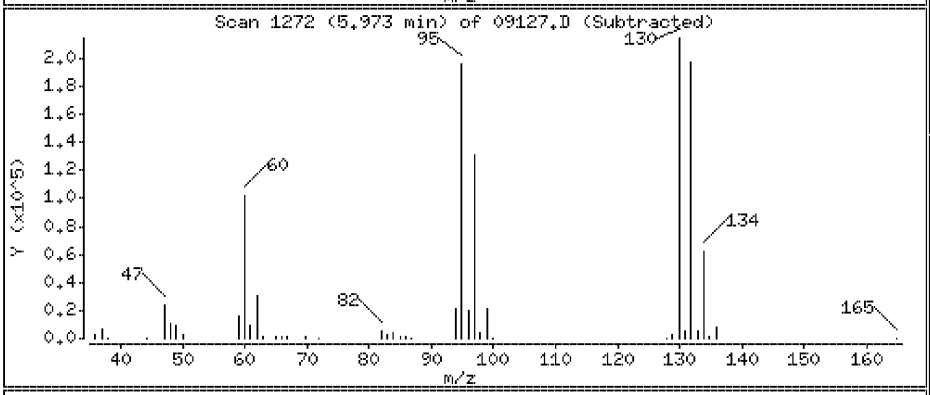
Column phase: J&W DB-5

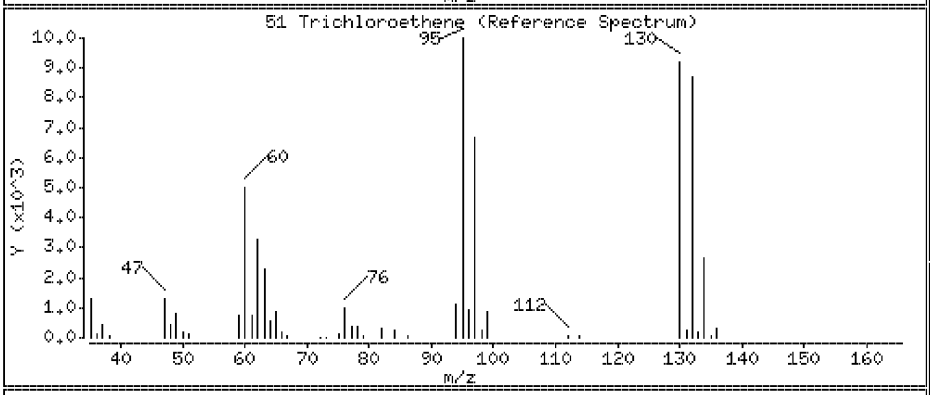
Column diameter: 0.32

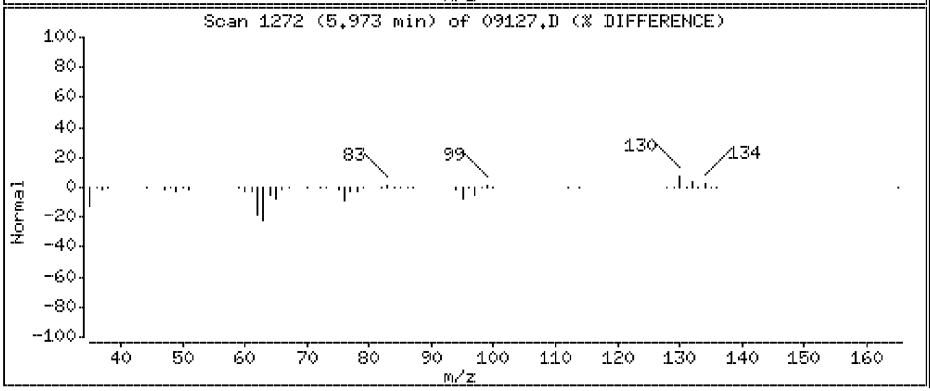
51 Trichloroethene

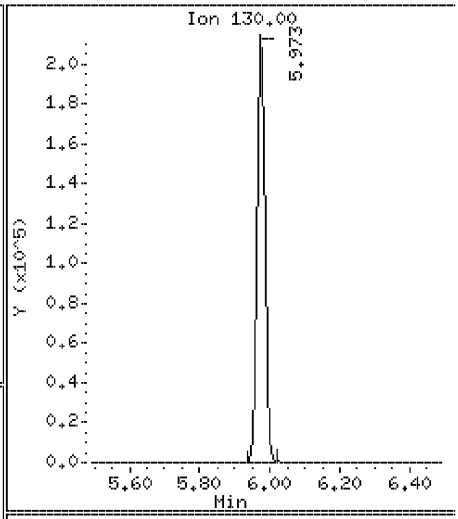
Concentration: 4200 ppbv

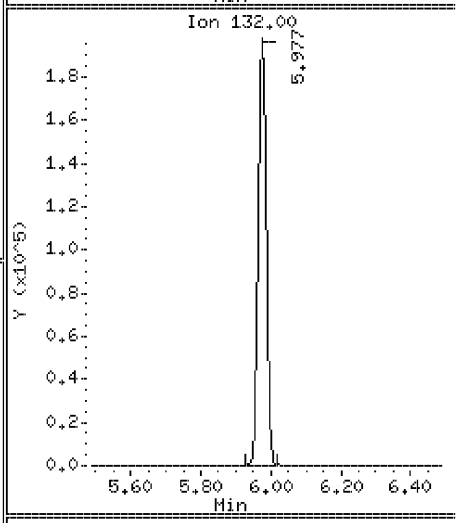


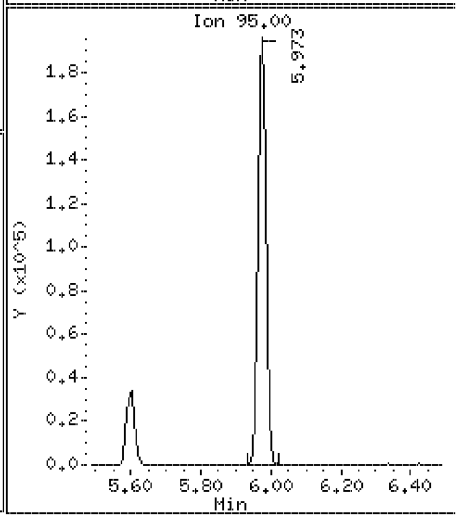












Data File: \\192.168.10.12\chem\10airB.i\040117.b\09127.D

Date : 01-APR-2017 20:45

Client ID:

Instrument: 10airB.i

Sample Info:

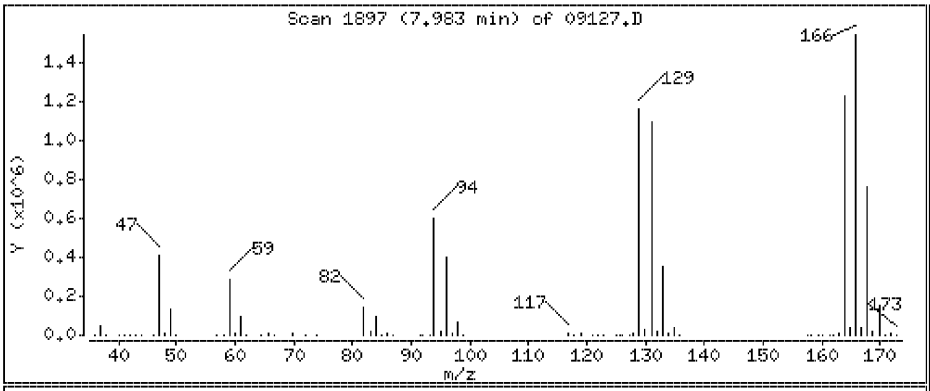
Operator: NCK

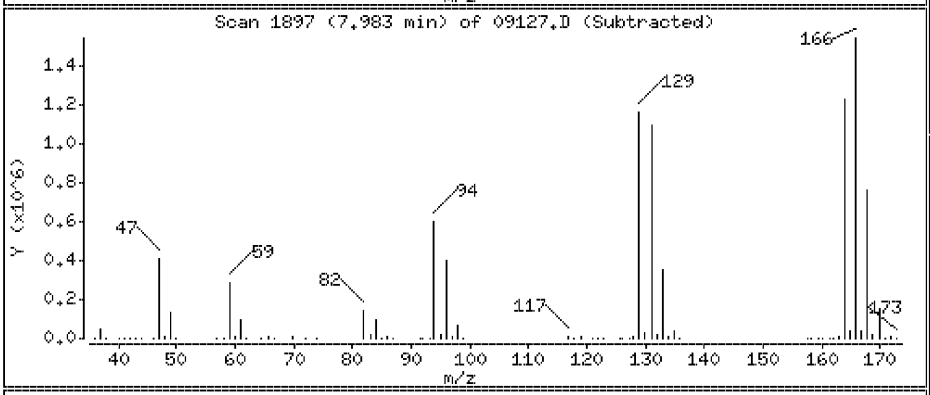
Column phase: J&W DB-5

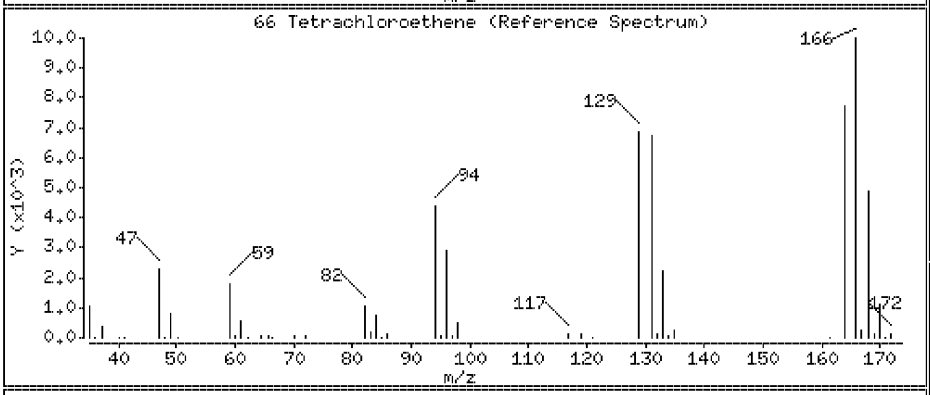
Column diameter: 0.32

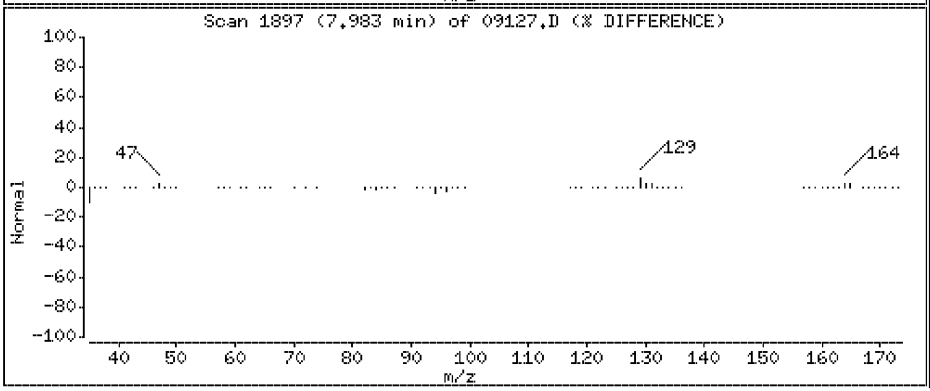
66 Tetrachloroethene

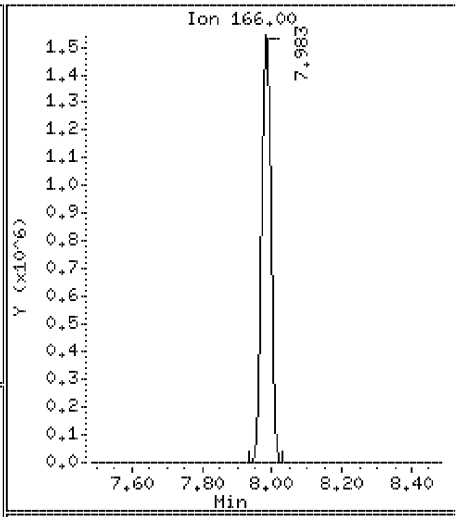
Concentration: 30300 ppbv

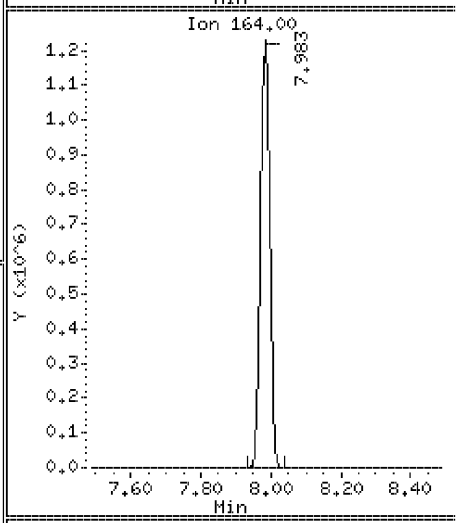


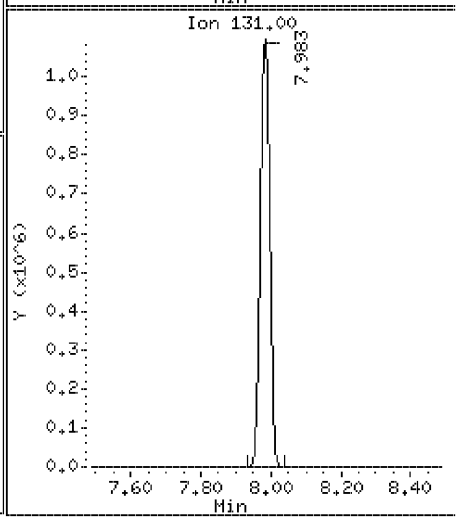












Data File: \\192.168.10.12\chem\10airB.i\040117.b/09127.D
Injection Date: 01-APR-2017 20:45
Instrument: 10airB.i
Lab Sample ID: 10381335020
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_29.5_20170307 **Lab ID: 10381335020** Collected: 03/07/17 12:44 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methyl-tert-butyl ether	**<44.4**	ug/m3	537	44.4	146.4		03/31/17 07:53	1634-04-4	
2-Propanol	**<35.1**	ug/m3	366	35.1	146.4		03/31/17 07:53	67-63-0	
Styrene	**<28.3**	ug/m3	127	28.3	146.4		03/31/17 07:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<48.2**	ug/m3	102	48.2	146.4		03/31/17 07:53	79-34-5	
Tetrachloroethene	**92800**	ug/m3	101	40.7	146.4		03/31/17 07:53	127-18-4	
Tetrachloroethene	**209000**	ug/m3	741	299	1075.2		04/01/17 20:45	127-18-4	
Toluene	**<22.5**	ug/m3	113	22.5	146.4		03/31/17 07:53	108-88-3	
1,2,4-Trichlorobenzene	**<133**	ug/m3	552	133	146.4		03/31/17 07:53	120-82-1	
1,1,1-Trichloroethane	**138J**	ug/m3	163	36.2	146.4		03/31/17 07:53	71-55-6	
1,1,2-Trichloroethane	**<36.0**	ug/m3	80.5	36.0	146.4		03/31/17 07:53	79-00-5	
Trichloroethene	**13800**	ug/m3	80.5	40.4	146.4		03/31/17 07:53	79-01-6	
Trichlorofluoromethane	**<19.3**	ug/m3	167	19.3	146.4		03/31/17 07:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**7600**	ug/m3	1720	324	1075.2		04/01/17 20:45	76-13-1	
1,2,4-Trimethylbenzene	**<18.3**	ug/m3	146	18.3	146.4		03/31/17 07:53	95-63-6	
1,3,5-Trimethylbenzene	**<26.8**	ug/m3	146	26.8	146.4		03/31/17 07:53	108-67-8	
Vinyl chloride	**<28.5**	ug/m3	38.1	28.5	146.4		03/31/17 07:53	75-01-4	
m&p-Xylene	**<115**	ug/m3	259	115	146.4		03/31/17 07:53	179601-23-1	
o-Xylene	**<51.4**	ug/m3	129	51.4	146.4		03/31/17 07:53	95-47-6	

Sample: VP-108D_50.5_20170307 **Lab ID: 10381335021** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**14.4J**	ug/m3	40.6		16.8		04/02/17 11:06	67-64-1	
Allyl chloride	**0.0J**	ug/m3	26.7		16.8		04/02/17 11:06	107-05-1	
Benzene	**0.0J**	ug/m3	5.5		16.8		04/02/17 11:06	71-43-2	
Bromodichloromethane	**0.0J**	ug/m3	22.8		16.8		04/02/17 11:06	75-27-4	
Bromoform	**0.0J**	ug/m3	35.3		16.8		04/02/17 11:06	75-25-2	
Bromomethane	**0.0J**	ug/m3	13.3		16.8		04/02/17 11:06	74-83-9	
1,3-Butadiene	**0.0J**	ug/m3	7.6		16.8		04/02/17 11:06	106-99-0	
2-Butanone (MEK)	**0.0J**	ug/m3	50.4		16.8		04/02/17 11:06	78-93-3	
Carbon disulfide	**0.0J**	ug/m3	10.6		16.8		04/02/17 11:06	75-15-0	
Carbon tetrachloride	**0.0J**	ug/m3	10.8		16.8		04/02/17 11:06	56-23-5	
Chlorobenzene	**0.0J**	ug/m3	15.8		16.8		04/02/17 11:06	108-90-7	
Chlorodifluoromethane	**0.0J**	ug/m3	12.1		16.8		04/02/17 11:06	75-45-6	
Chloroethane	**0.0J**	ug/m3	9.1		16.8		04/02/17 11:06	75-00-3	
Chloroform	**0.0J**	ug/m3	8.3		16.8		04/02/17 11:06	67-66-3	
Chloromethane	**0.0J**	ug/m3	7.1		16.8		04/02/17 11:06	74-87-3	
Chloropentafluoroethane	**0.0J**	ug/m3	53.9		16.8		04/02/17 11:06	76-15-3	
Cyclohexane	**0.0J**	ug/m3	11.8		16.8		04/02/17 11:06	110-82-7	
1,2-Dibromo-3-chloropropane	**0.0J**	ug/m3	82.5		16.8		04/02/17 11:06	96-12-8	
Dibromochloromethane	**0.0J**	ug/m3	29.1		16.8		04/02/17 11:06	124-48-1	
1,2-Dibromoethane (EDB)	**0.0J**	ug/m3	26.2		16.8		04/02/17 11:06	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_50.5_20170307 **Lab ID: 10381335021** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichlorobenzene	**0.0J**	ug/m3	20.5		16.8		04/02/17 11:06	95-50-1	
1,3-Dichlorobenzene	**0.0J**	ug/m3	20.5		16.8		04/02/17 11:06	541-73-1	
1,4-Dichlorobenzene	**0.0J**	ug/m3	20.5		16.8		04/02/17 11:06	106-46-7	
Dichlorodifluoromethane	**0.0J**	ug/m3	17.0		16.8		04/02/17 11:06	75-71-8	
1,1-Dichloroethane	**0.0J**	ug/m3	13.8		16.8		04/02/17 11:06	75-34-3	
1,2-Dichloroethane	**0.0J**	ug/m3	6.9		16.8		04/02/17 11:06	107-06-2	
1,1-Dichloroethene	**0.0J**	ug/m3	13.6		16.8		04/02/17 11:06	75-35-4	
cis-1,2-Dichloroethene	**878**	ug/m3	13.6		16.8		04/02/17 11:06	156-59-2	
trans-1,2-Dichloroethene	**0.0J**	ug/m3	13.6		16.8		04/02/17 11:06	156-60-5	
1,2-Dichloropropane	**0.0J**	ug/m3	15.8		16.8		04/02/17 11:06	78-87-5	
cis-1,3-Dichloropropene	**0.0J**	ug/m3	15.5		16.8		04/02/17 11:06	10061-01-5	
trans-1,3-Dichloropropene	**0.0J**	ug/m3	15.5		16.8		04/02/17 11:06	10061-02-6	
Dichlorotetrafluoroethane	**0.0J**	ug/m3	23.9		16.8		04/02/17 11:06	76-14-2	
Freon 123	**0.0J**	ug/m3	53.4		16.8		04/02/17 11:06	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.0J**	ug/m3	61.5		16.8		04/02/17 11:06	123-91-1	
Ethylbenzene	**3.9J**	ug/m3	14.8		16.8		04/02/17 11:06	100-41-4	
4-Ethyltoluene	**0.0J**	ug/m3	16.8		16.8		04/02/17 11:06	622-96-8	
Hexachloro-1,3-butadiene	**0.0J**	ug/m3	91.1		16.8		04/02/17 11:06	87-68-3	
n-Hexane	**0.0J**	ug/m3	12.1		16.8		04/02/17 11:06	110-54-3	
2-Hexanone	**0.0J**	ug/m3	70.0		16.8		04/02/17 11:06	591-78-6	
Isopropylbenzene (Cumene)	**0.0J**	ug/m3	42.0		16.8		04/02/17 11:06	98-82-8	
Methyl acetate	**0.0J**	ug/m3	25.9		16.8		04/02/17 11:06	79-20-9	
Methylcyclohexane	**0.0J**	ug/m3	13.7		16.8		04/02/17 11:06	108-87-2	
Methylene Chloride	**31.0J**	ug/m3	59.3		16.8		04/02/17 11:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0J**	ug/m3	70.0		16.8		04/02/17 11:06	108-10-1	
Methyl-tert-butyl ether	**0.0J**	ug/m3	61.6		16.8		04/02/17 11:06	1634-04-4	
2-Propanol	**0.0J**	ug/m3	42.0		16.8		04/02/17 11:06	67-63-0	
Styrene	**0.0J**	ug/m3	14.6		16.8		04/02/17 11:06	100-42-5	
1,1,2,2-Tetrachloroethane	**0.0J**	ug/m3	11.7		16.8		04/02/17 11:06	79-34-5	
Tetrachloroethene	**48.8**	ug/m3	11.6		16.8		04/02/17 11:06	127-18-4	
Toluene	**44.8**	ug/m3	12.9		16.8		04/02/17 11:06	108-88-3	
1,2,4-Trichlorobenzene	**0.0J**	ug/m3	63.3		16.8		04/02/17 11:06	120-82-1	
1,1,1-Trichloroethane	**0.0J**	ug/m3	18.6		16.8		04/02/17 11:06	71-55-6	
1,1,2-Trichloroethane	**0.0J**	ug/m3	9.2		16.8		04/02/17 11:06	79-00-5	
Trichloroethene	**33.5**	ug/m3	9.2		16.8		04/02/17 11:06	79-01-6	
Trichlorofluoromethane	**0.0J**	ug/m3	19.2		16.8		04/02/17 11:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	**16.0J**	ug/m3	26.9		16.8		04/02/17 11:06	76-13-1	
1,2,4-Trimethylbenzene	**1.7J**	ug/m3	16.8		16.8		04/02/17 11:06	95-63-6	
1,3,5-Trimethylbenzene	**0.0J**	ug/m3	16.8		16.8		04/02/17 11:06	108-67-8	
Vinyl chloride	**0.0J**	ug/m3	4.4		16.8		04/02/17 11:06	75-01-4	
m&p-Xylene	**23.0J**	ug/m3	29.7		16.8		04/02/17 11:06	179601-23-1	
o-Xylene	**0.0J**	ug/m3	14.8		16.8		04/02/17 11:06	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D
Report Date: 03-Apr-2017 14:37

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040217.b\09206.D
Lab Smp Id: 10381335021
Inj Date : 02-APR-2017 11:06
Operator : DR1 Inst ID: 10airB.i
Smp Info :
Misc Info : 28055
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m
Meth Date : 03-Apr-2017 14:27 drandall Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 6
Dil Factor: 16.80000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	16.800	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	3.034	3.038	(0.542)	3866	0.09791	1.64	
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.568	3.549	(0.638)	2271	0.12326	2.07	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.745	3.726	(0.669)	25167	0.35426	5.95	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.935	3.957	(0.703)	10038	0.12244	2.06	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D
Report Date: 03-Apr-2017 14:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	4.012	(0.712)	29653	0.52214	8.77	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.801)	743458	9.90226	9.90	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.706	4.729	(0.841)	559281	12.9702	218(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	1990150	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	5.877	5.893	(1.050)	3081	0.02989	0.502(a)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.970	5.989	(1.067)	29468	0.36506	6.13	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	1600119	9.59657	9.60	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.276)	134203	0.69581	11.7	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	41277	0.42115	7.08	
*	67 Chlorobenzene - d5	117	8.635	8.645	(1.000)	1106887	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.928	8.934	(1.034)	12516	0.05324	0.894	
	70 m&p-Xylene	91	9.073	9.082	(1.051)	55073	0.31006	5.21	
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D
Report Date: 03-Apr-2017 14:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.333)	3724	0.02056	0.345(a)	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	383117	7.66008	7.66	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D
Report Date: 03-Apr-2017 14:37

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09206.D
Lab Smp Id: 10381335021
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m
Misc Info: 28055

Calibration Date: 02-APR-2017
Calibration Time: 08:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

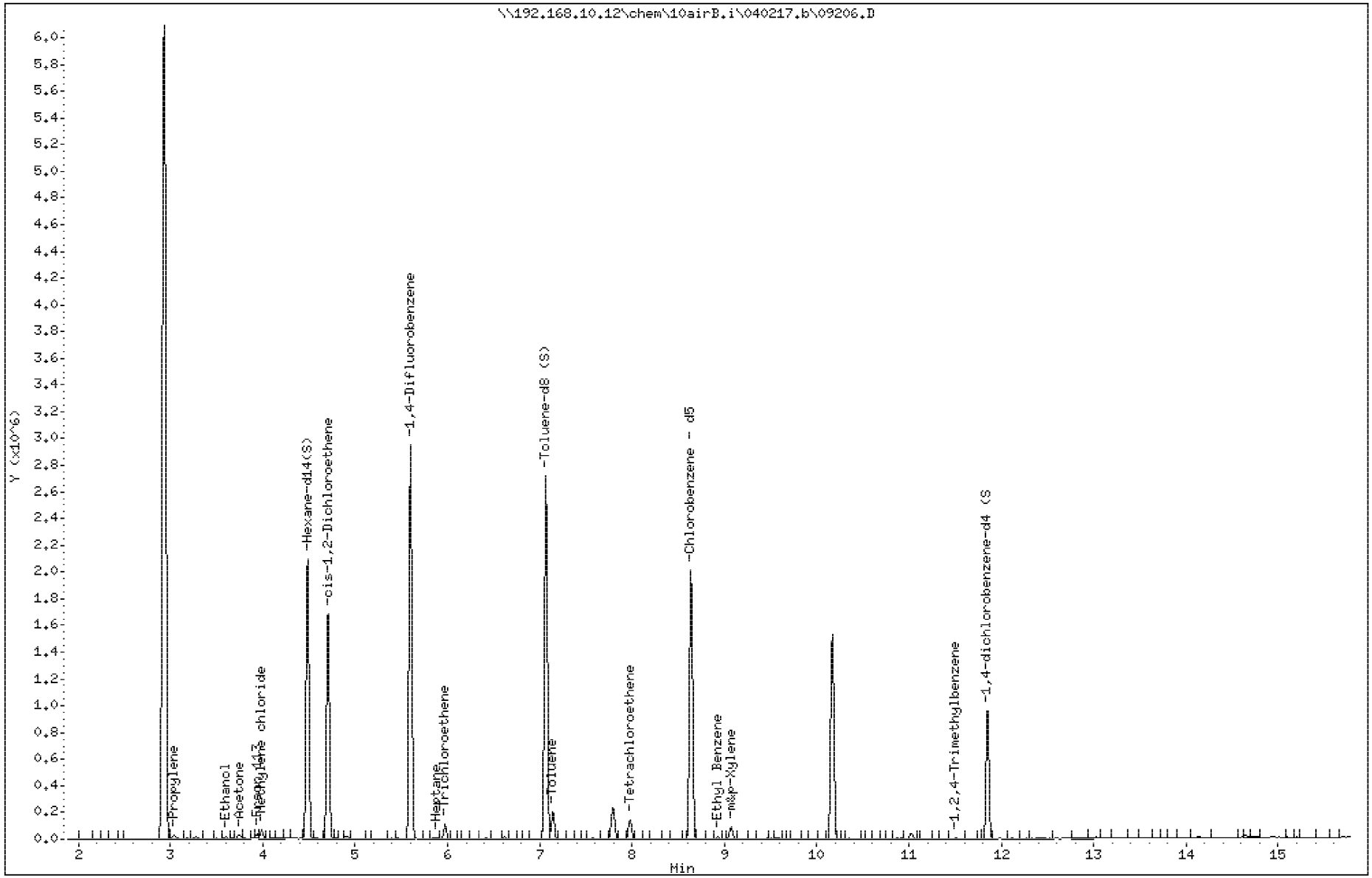
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1990150	2.76
67 Chlorobenzene - d	1173864	704318	1643410	1106887	-5.71

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.11

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D
Date : 02-APR-2017 11:06
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

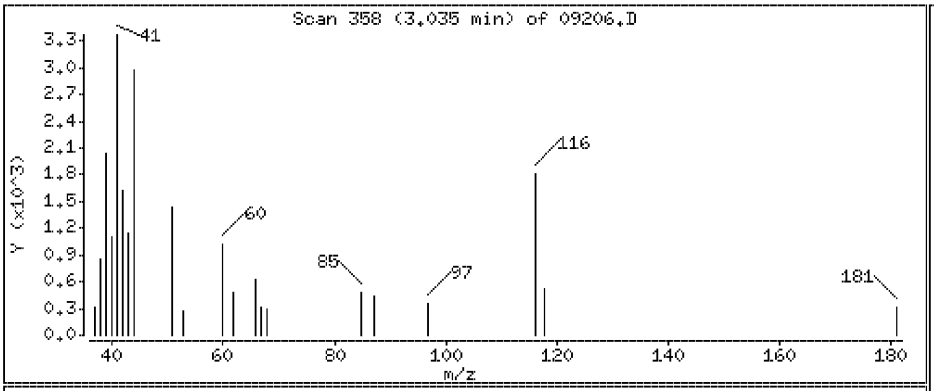
Operator: DR1

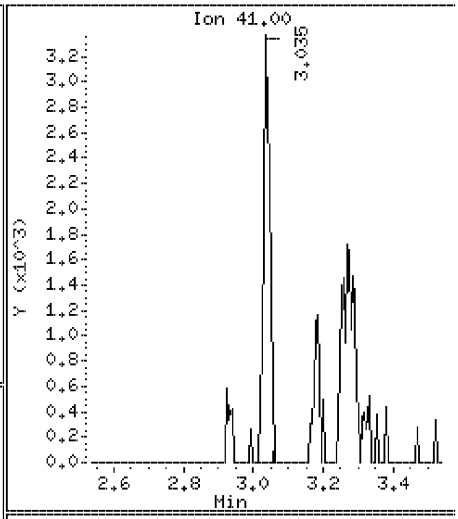
Column phase: J&W DB-5

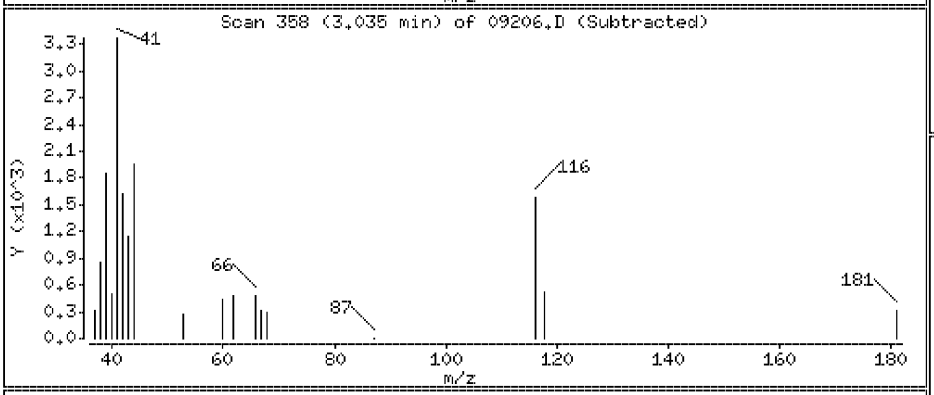
Column diameter: 0.32

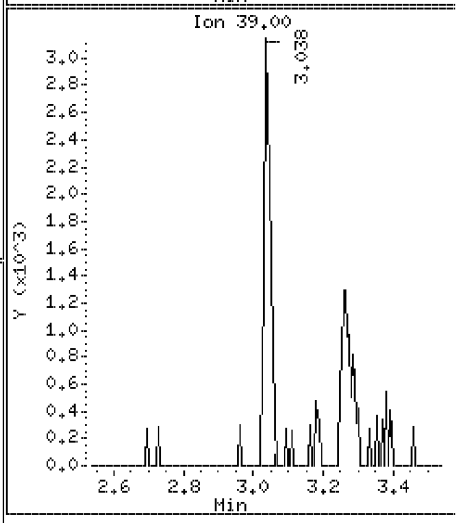
4 Propylene

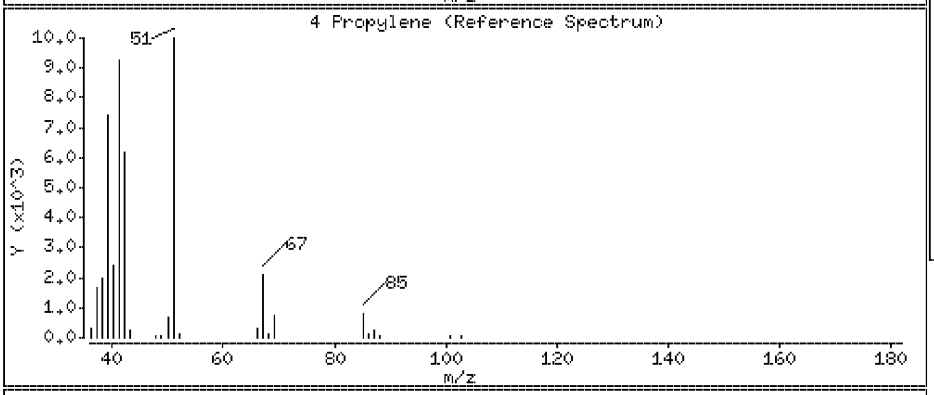
Concentration: 1.64 ppbv

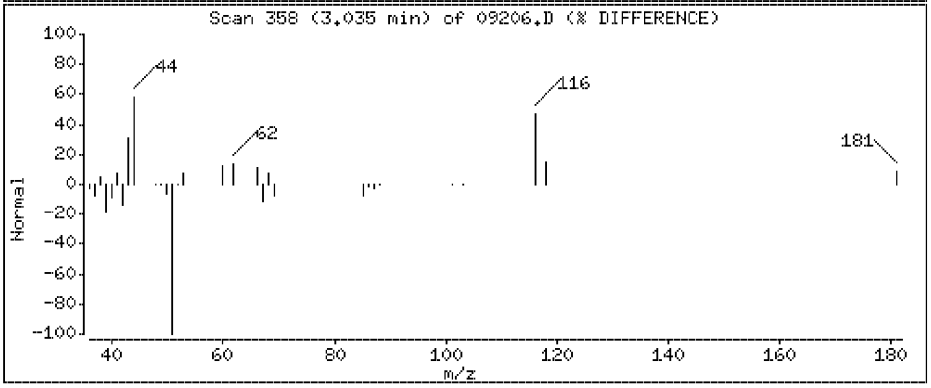












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

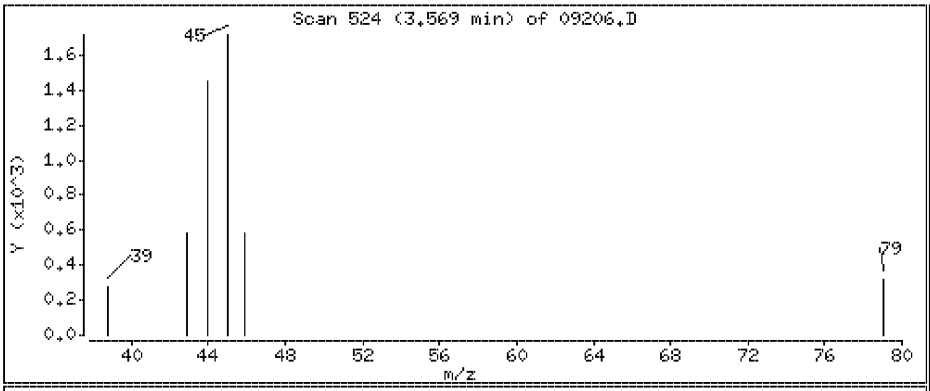
Operator: DR1

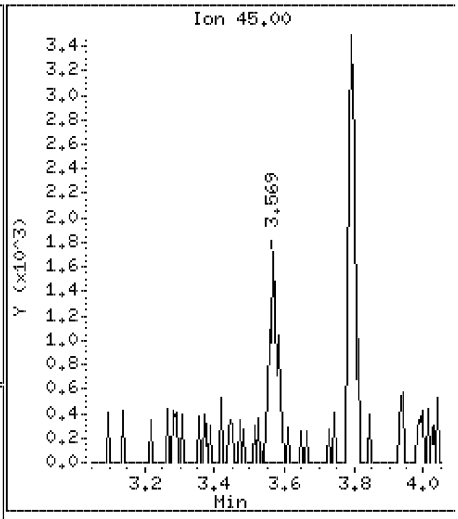
Column phase: J&W DB-5

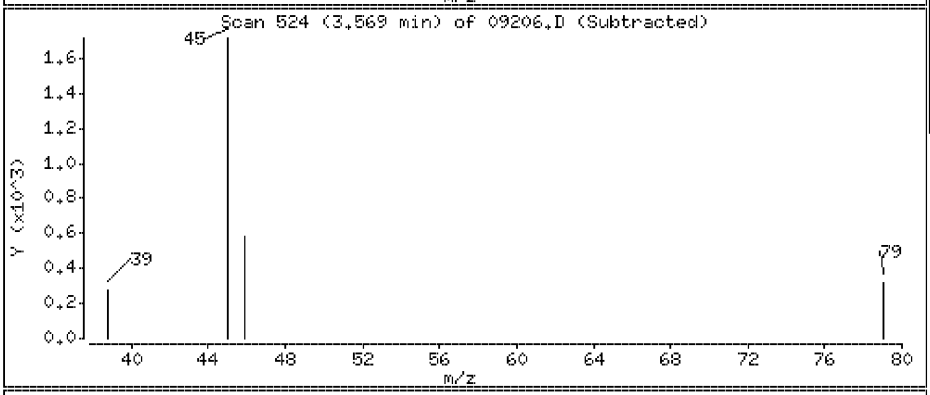
Column diameter: 0.32

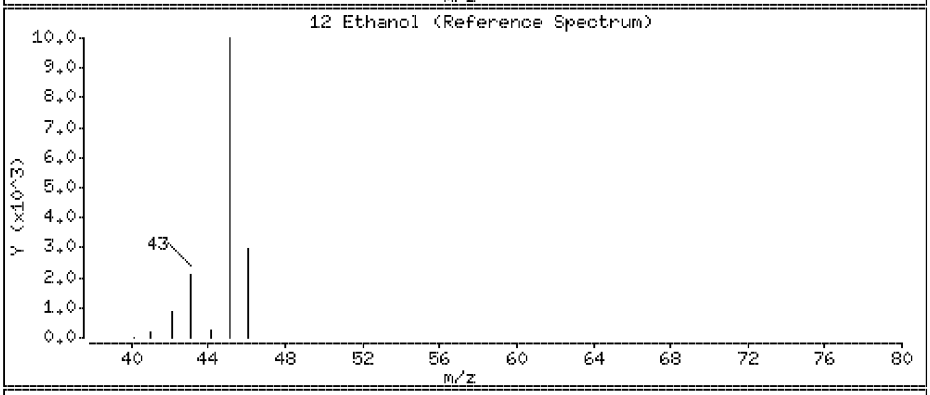
12 Ethanol

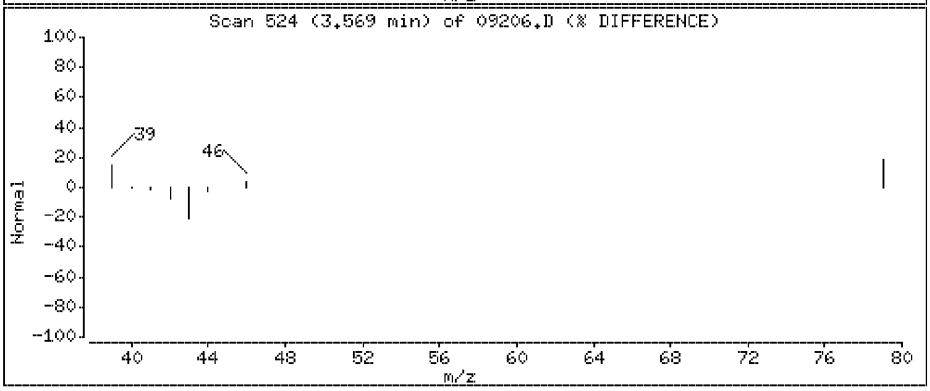
Concentration: 2.07 ppbv











Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

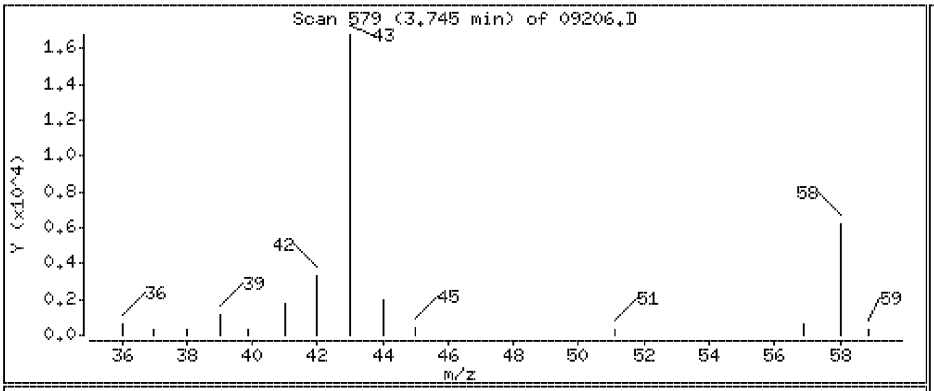
Operator: DR1

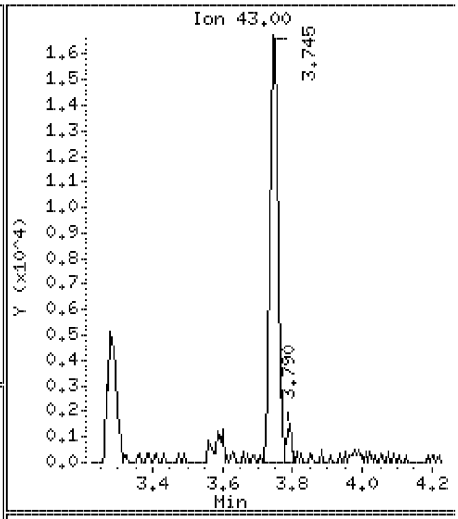
Column phase: J&W DB-5

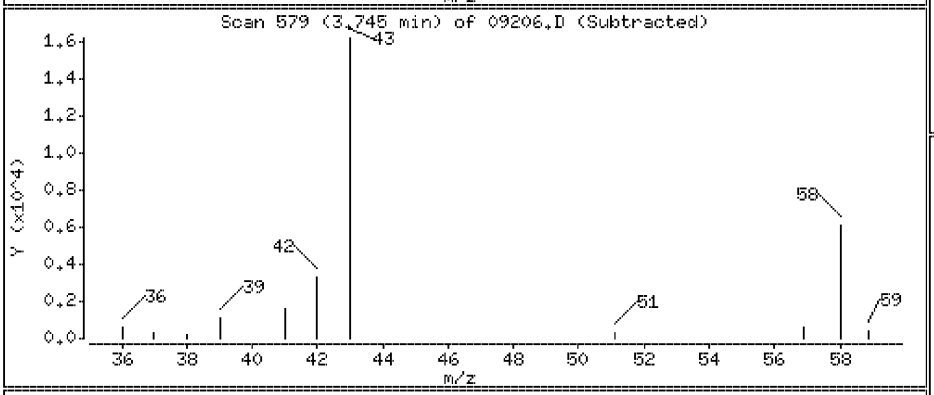
Column diameter: 0.32

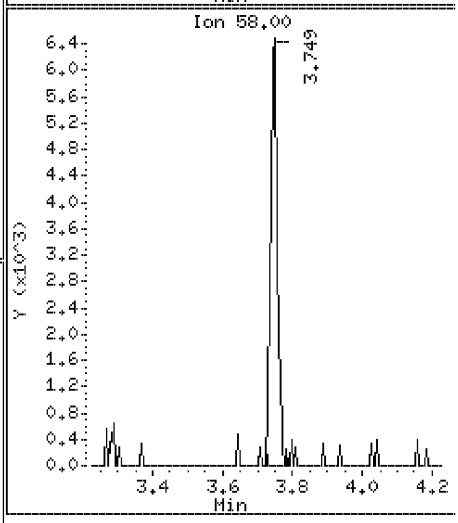
18 Acetone

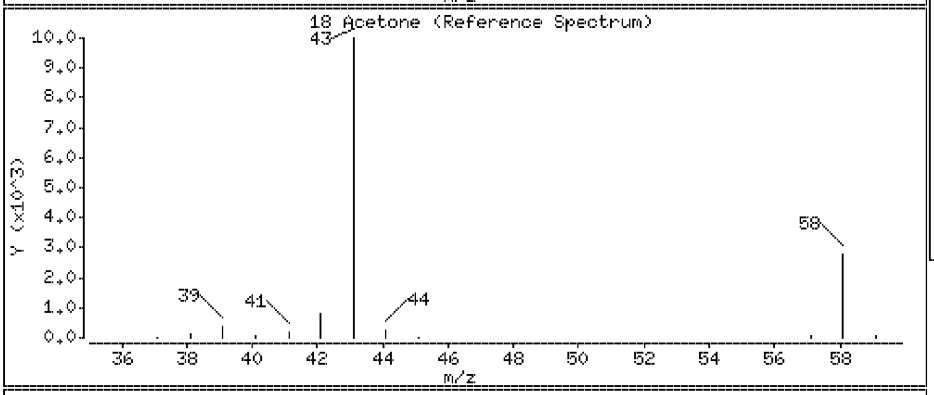
Concentration: 5.95 ppbv

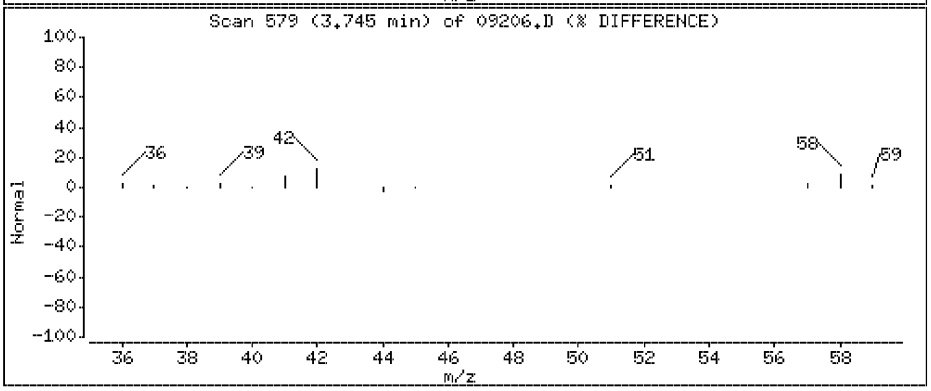












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

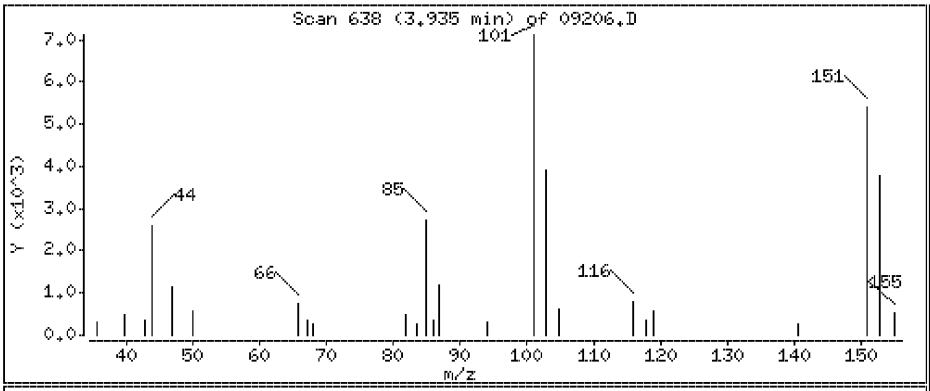
Operator: DR1

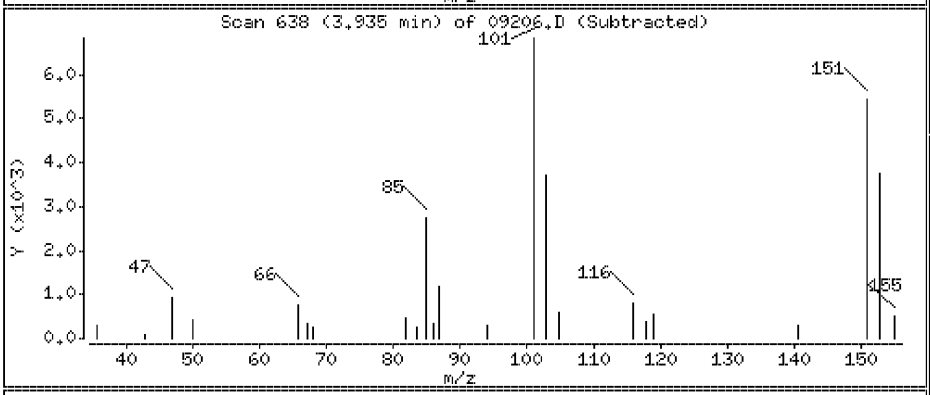
Column phase: J&W DB-5

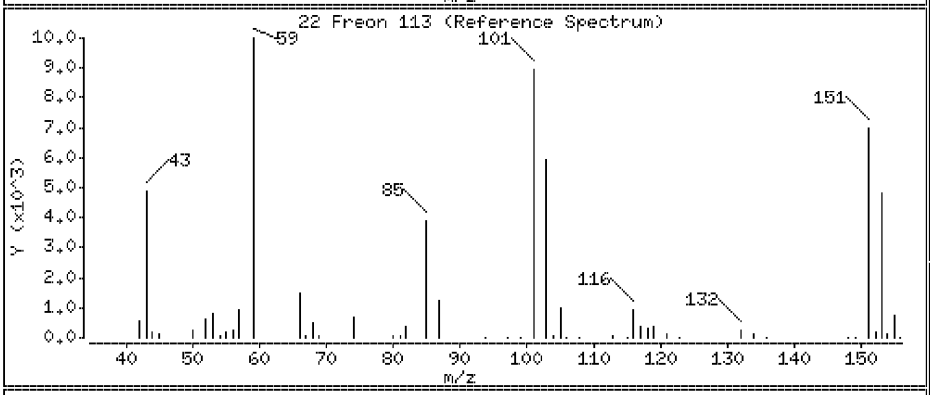
Column diameter: 0.32

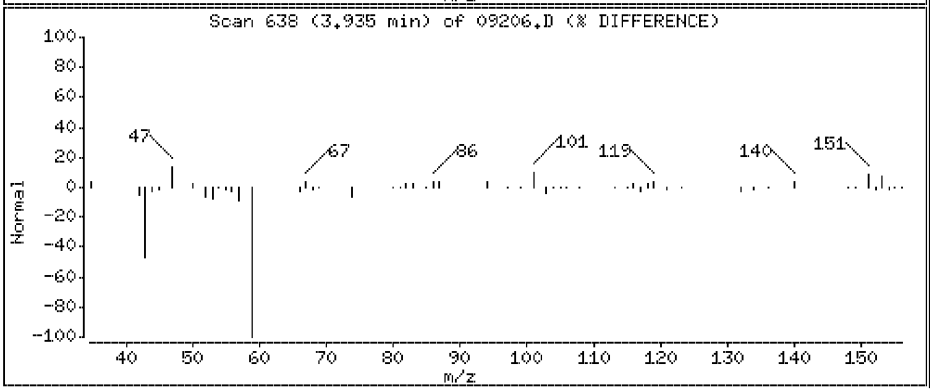
22 Freon 113

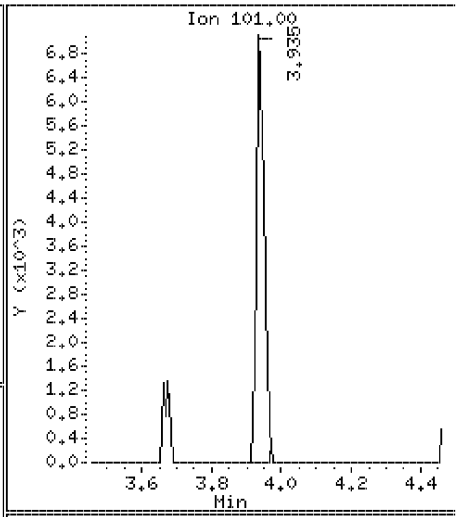
Concentration: 2.06 ppbv

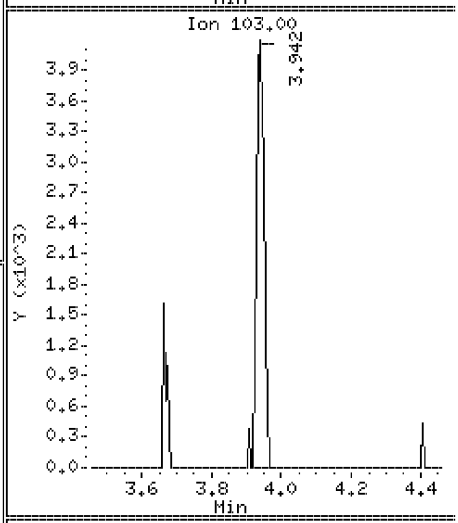


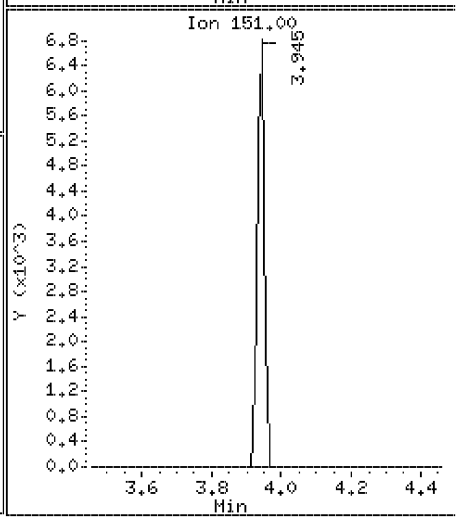












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

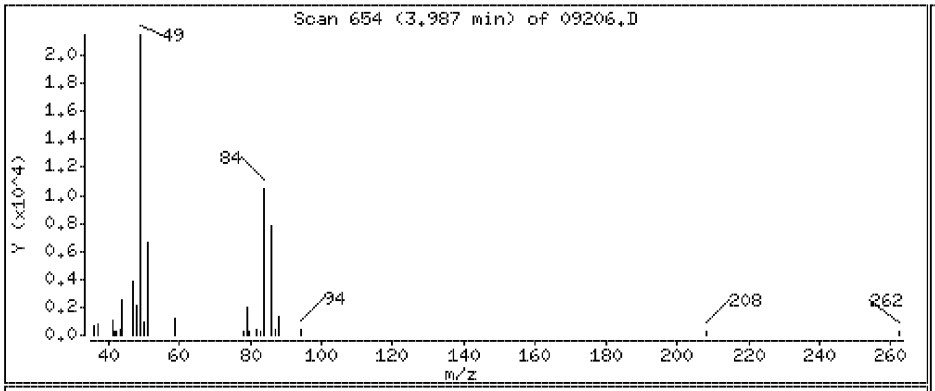
Operator: DR1

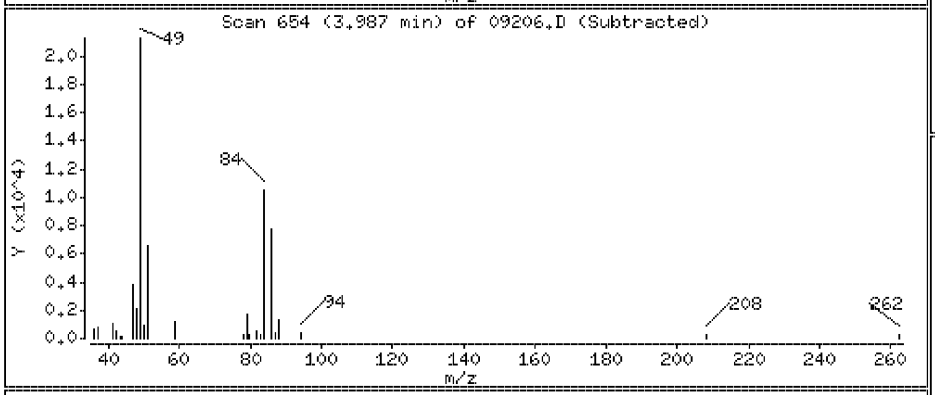
Column phase: J&W DB-5

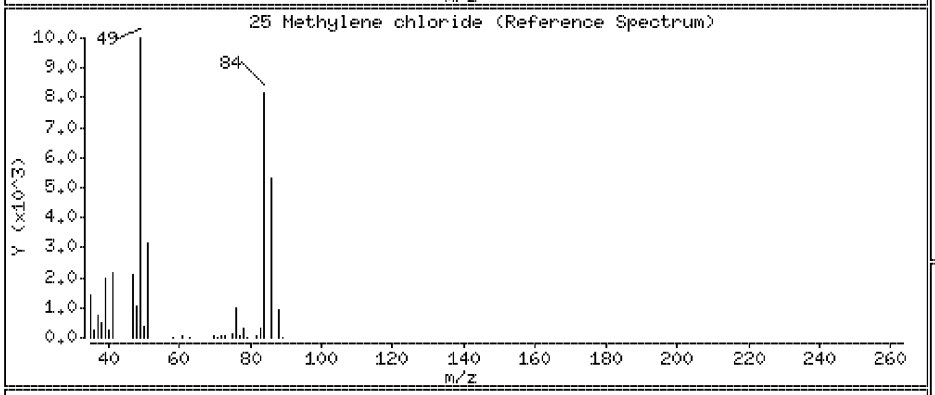
Column diameter: 0.32

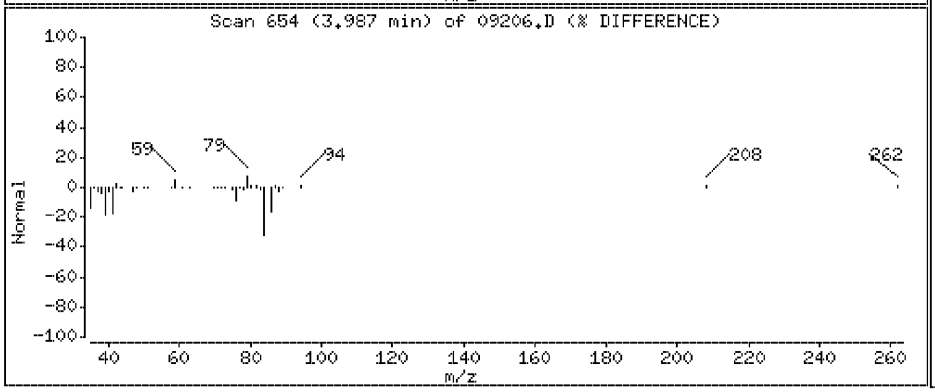
25 Methylene chloride

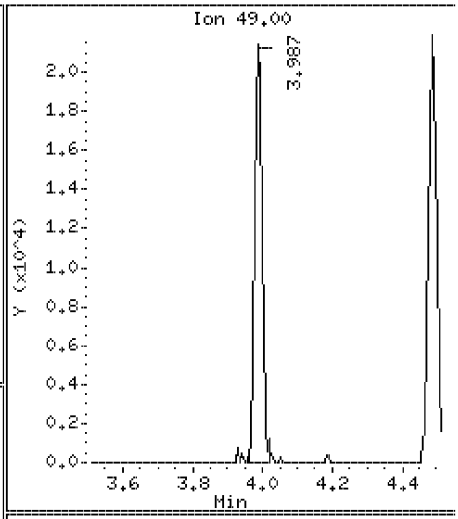
Concentration: 8.77 ppbv

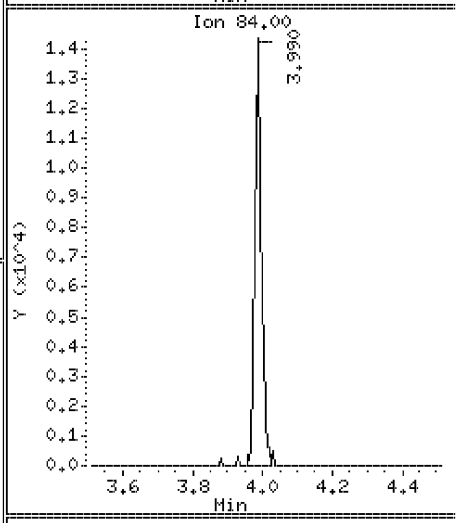


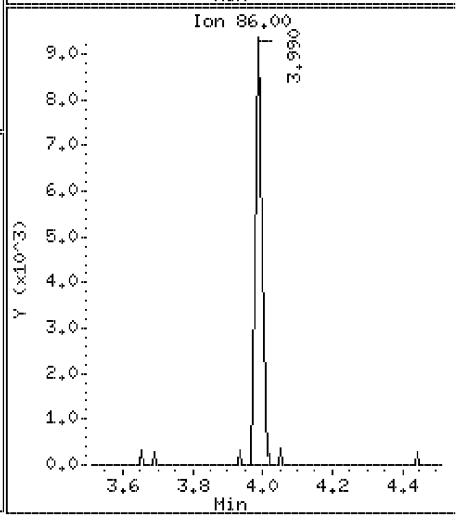












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

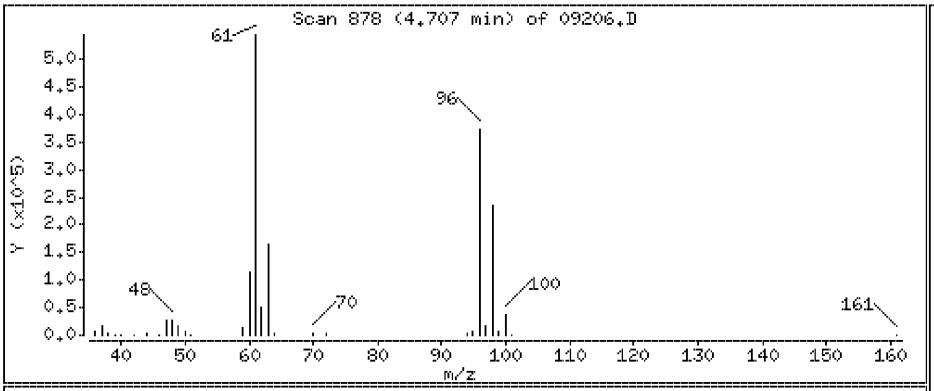
Operator: DR1

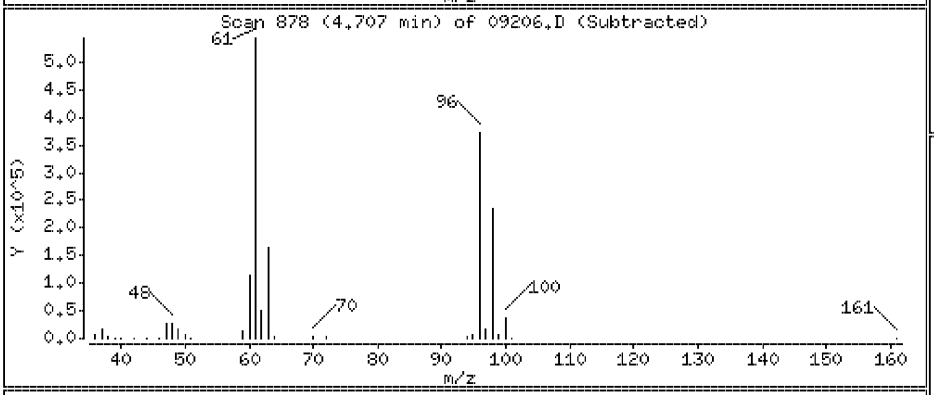
Column phase: J&W DB-5

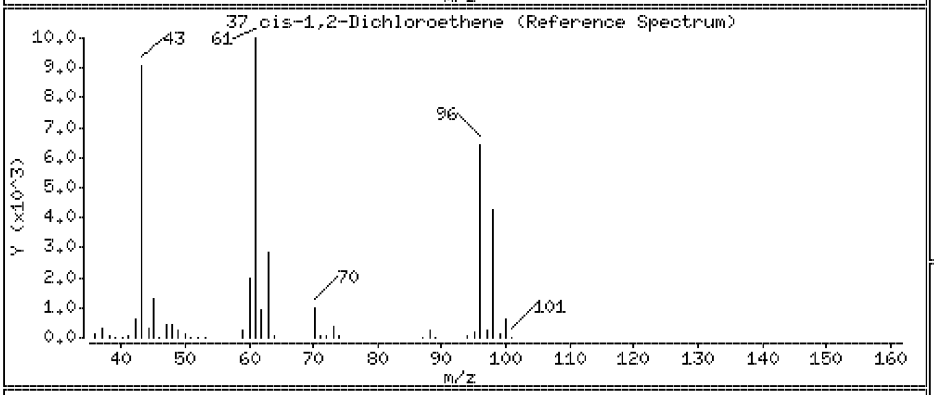
Column diameter: 0.32

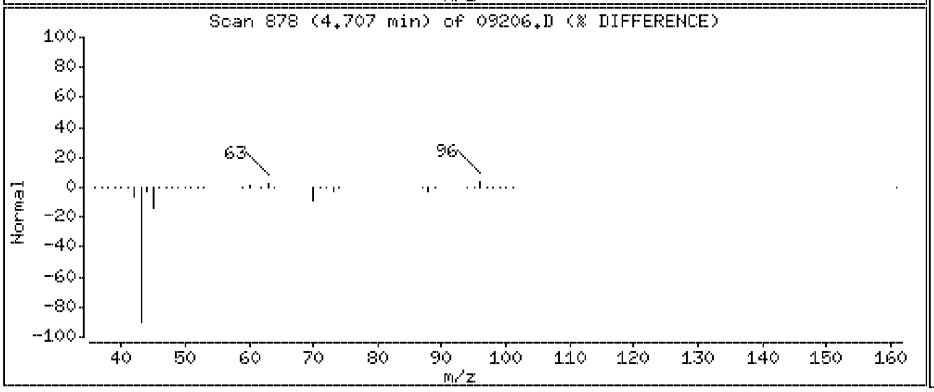
37 cis-1,2-Dichloroethene

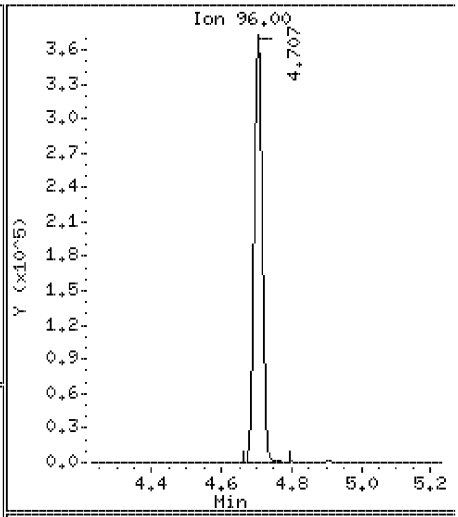
Concentration: 218 ppbv

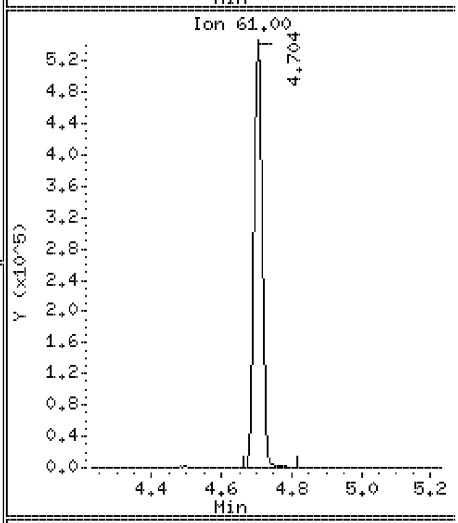


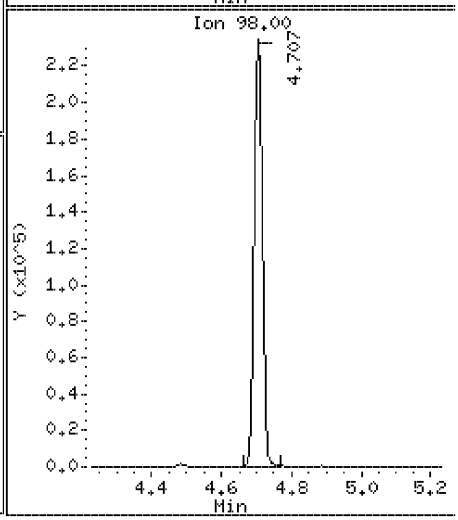












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

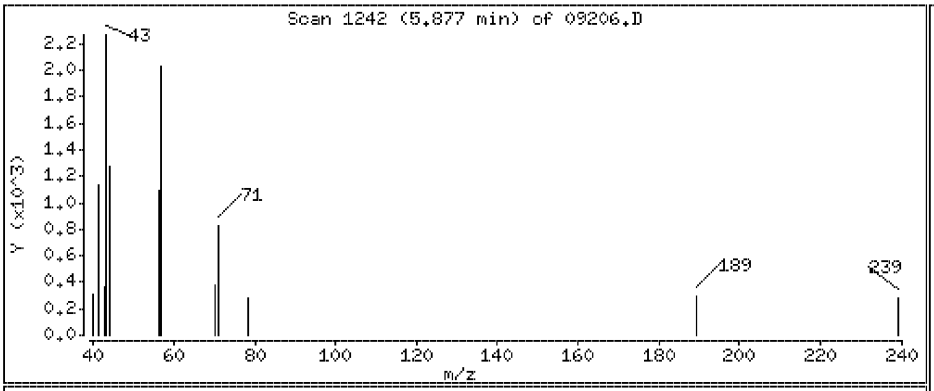
Operator: DR1

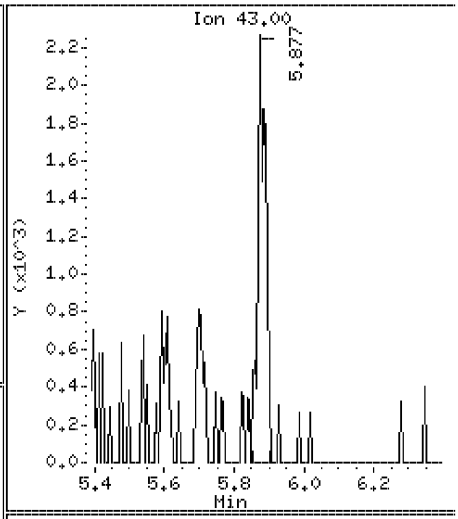
Column phase: J&W DB-5

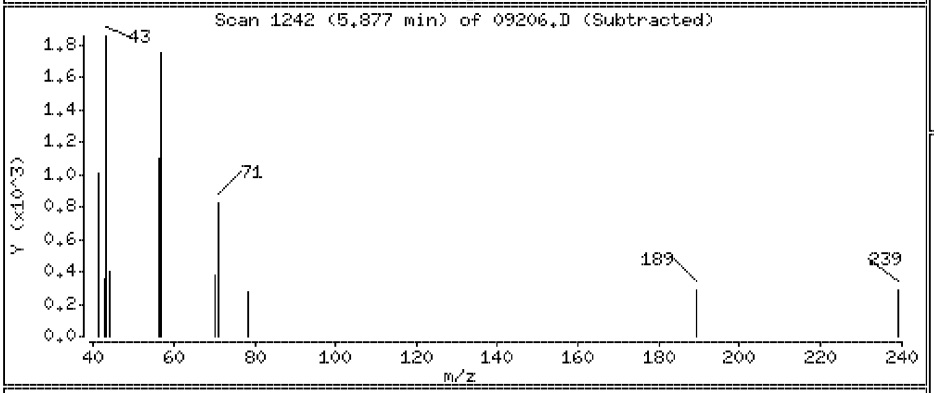
Column diameter: 0.32

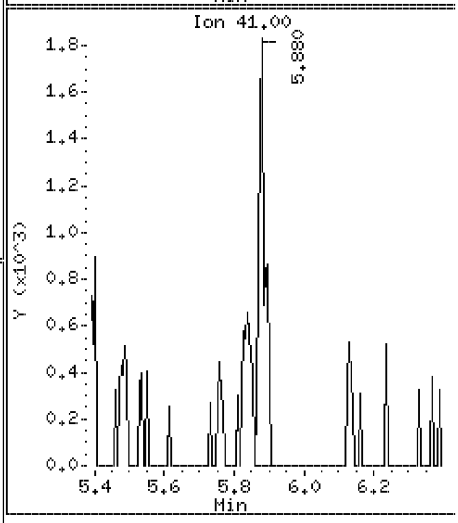
49 Heptane

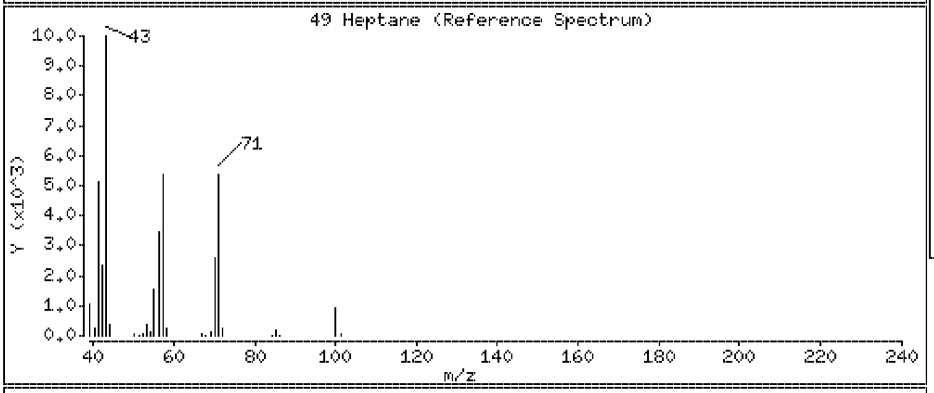
Concentration: 0.502 ppbv

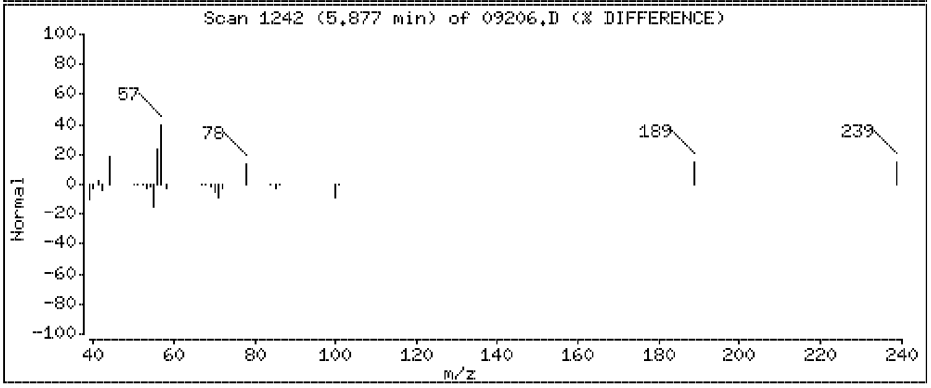












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

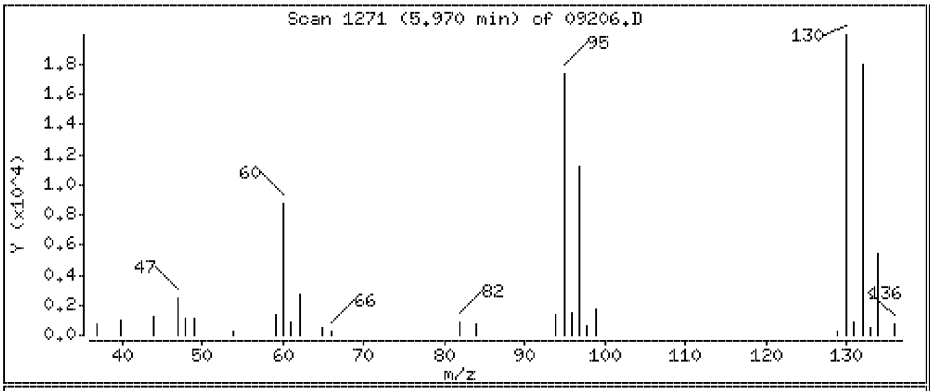
Operator: DR1

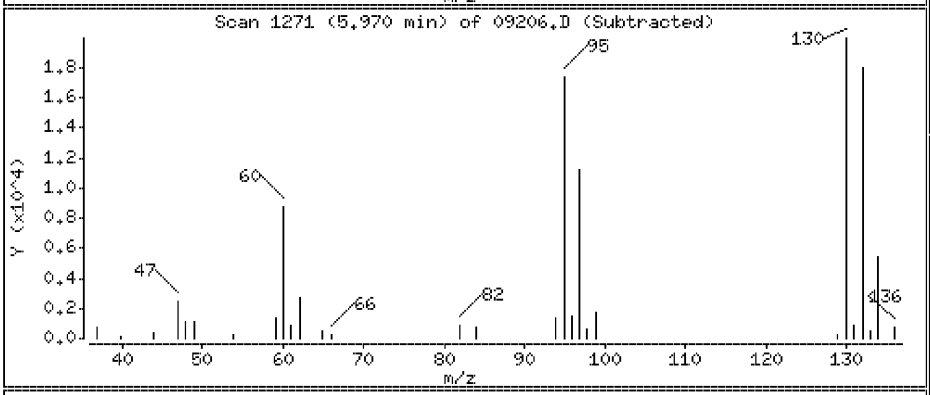
Column phase: J&W DB-5

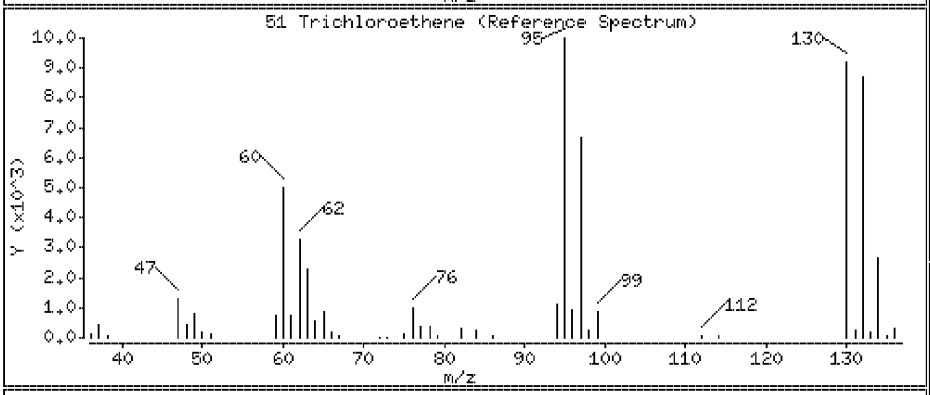
Column diameter: 0.32

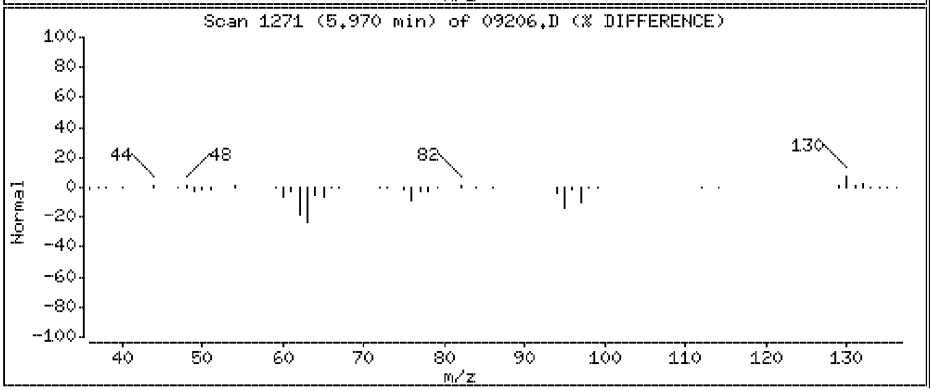
51 Trichloroethene

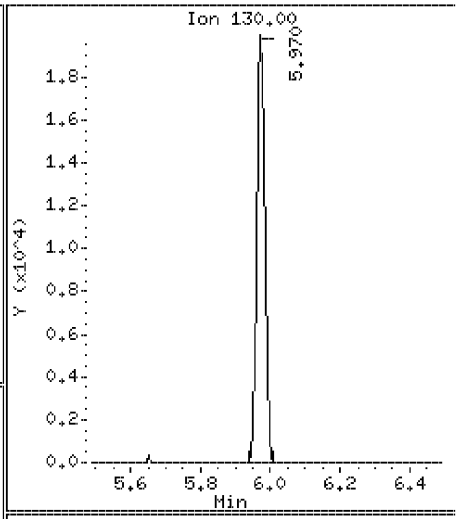
Concentration: 6.13 ppbv

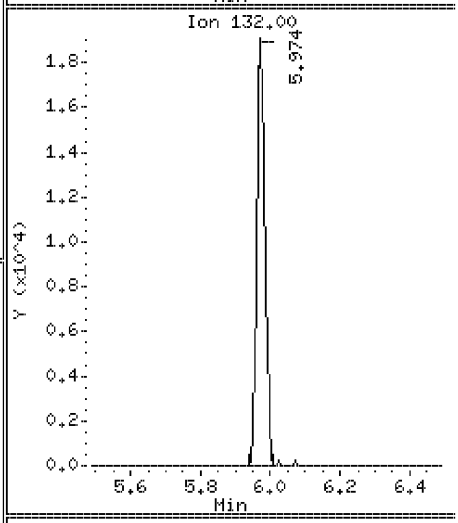


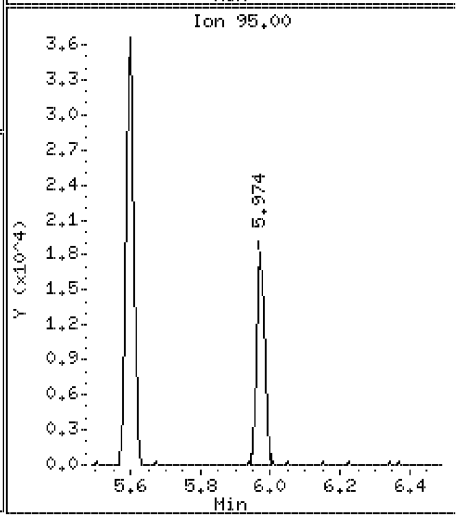












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

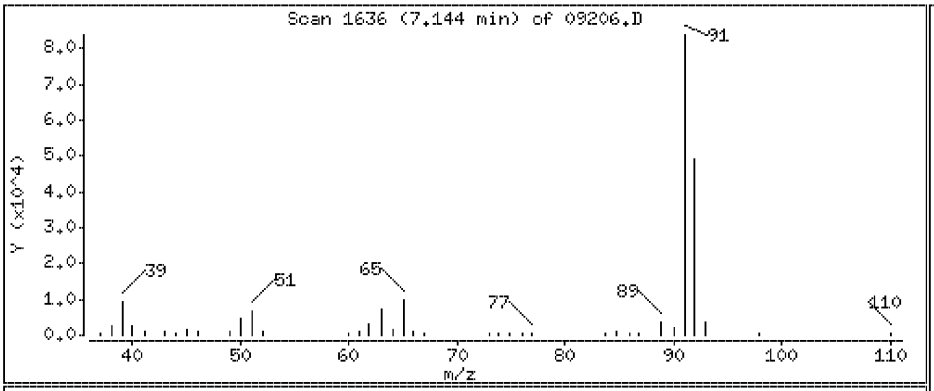
Operator: DR1

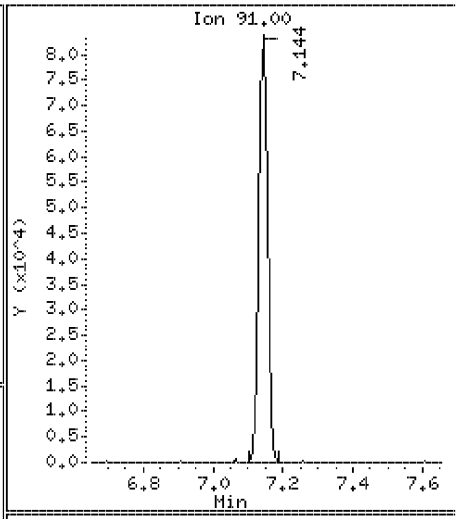
Column phase: J&W DB-5

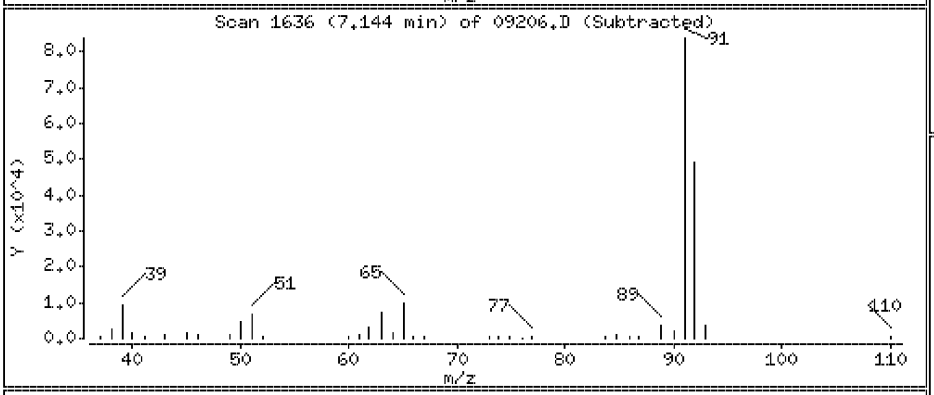
Column diameter: 0.32

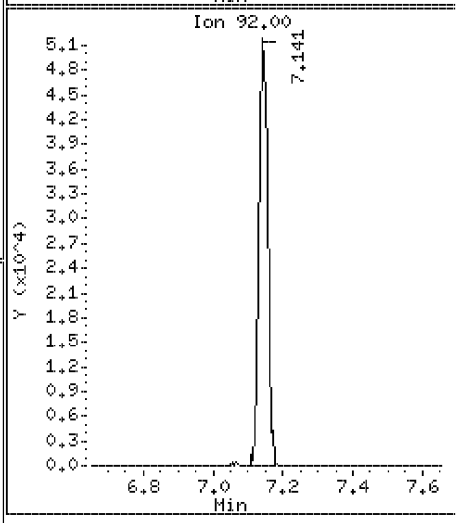
61 Toluene

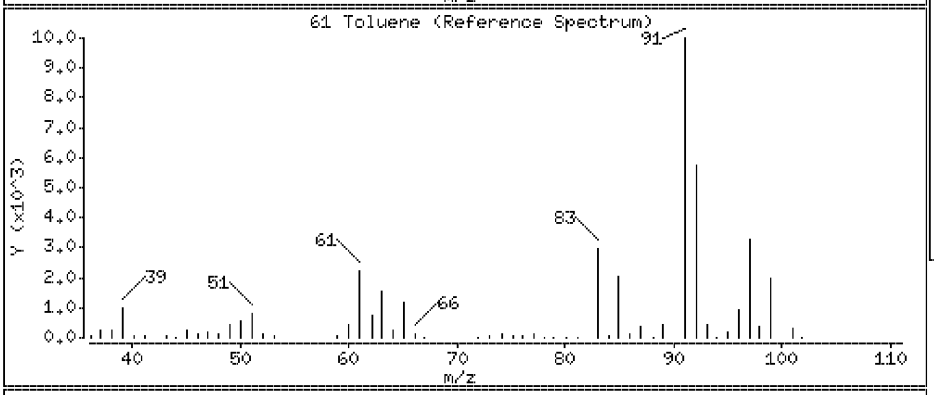
Concentration: 11.7 ppbv

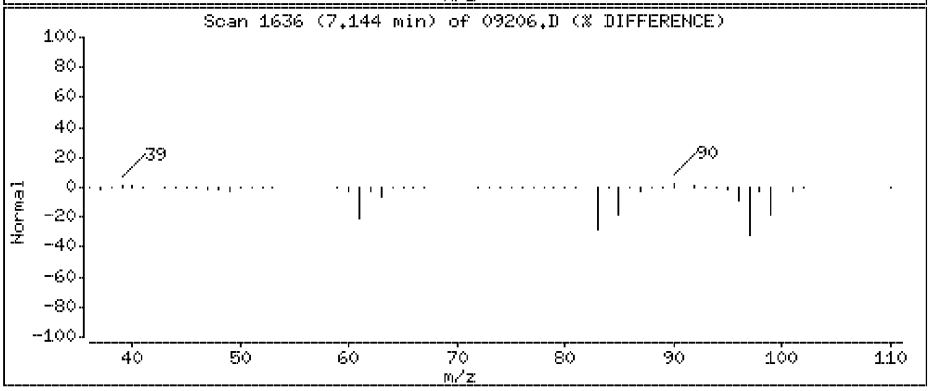












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

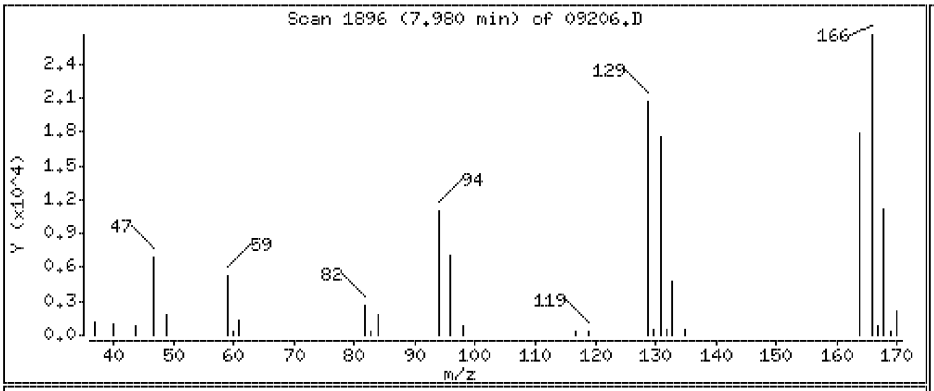
Operator: DR1

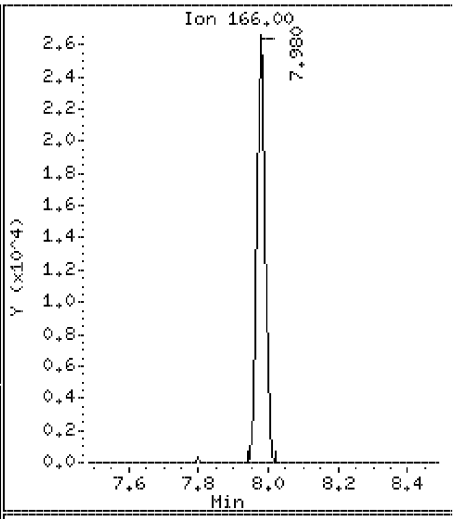
Column phase: J&W DB-5

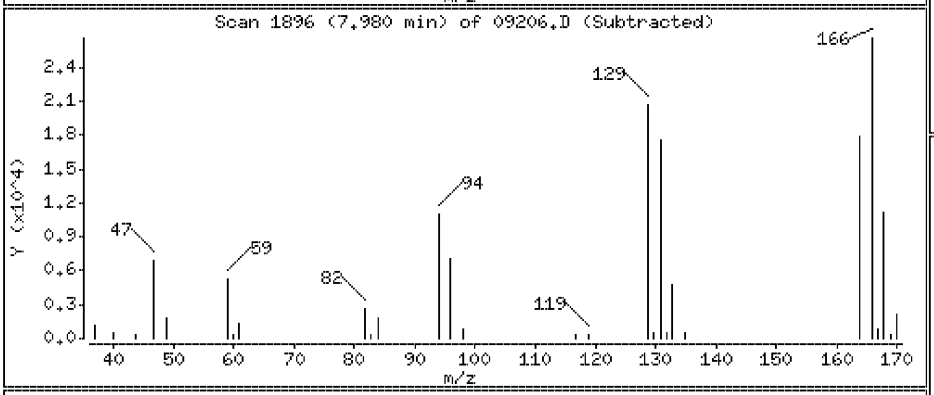
Column diameter: 0.32

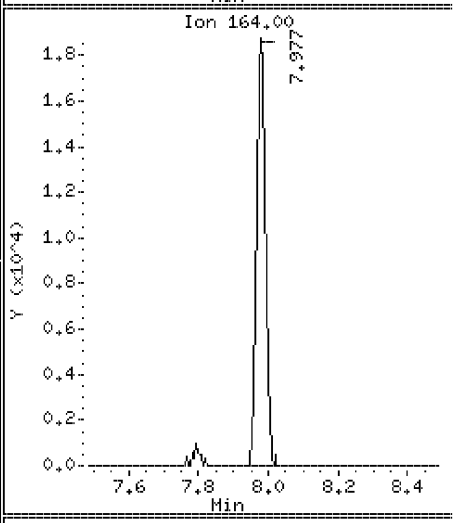
66 Tetrachloroethene

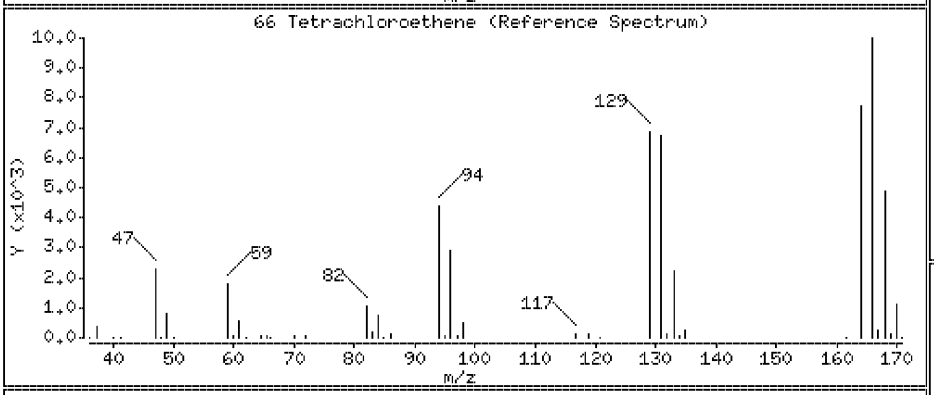
Concentration: 7.08 ppbv

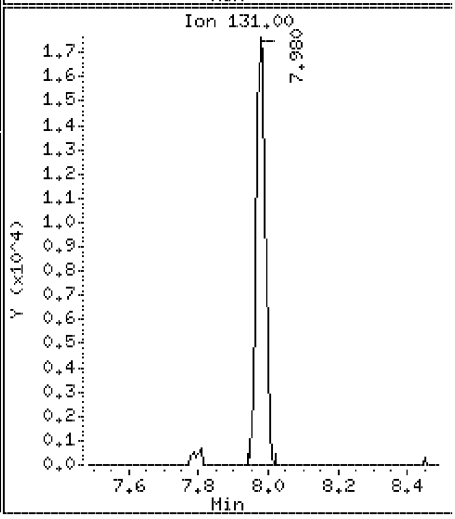


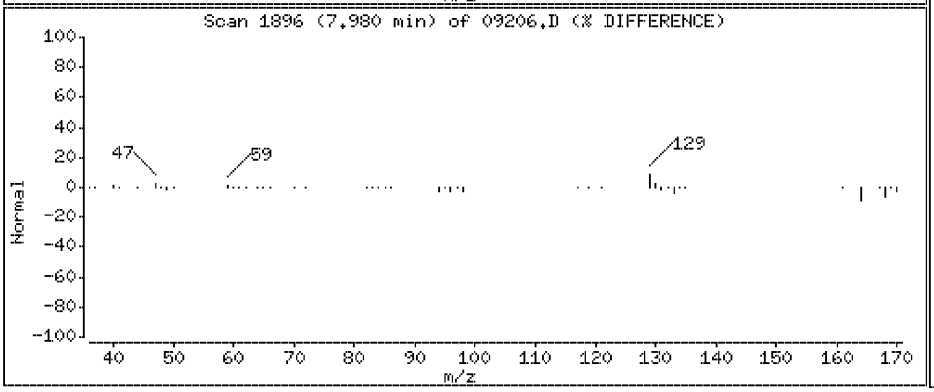












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

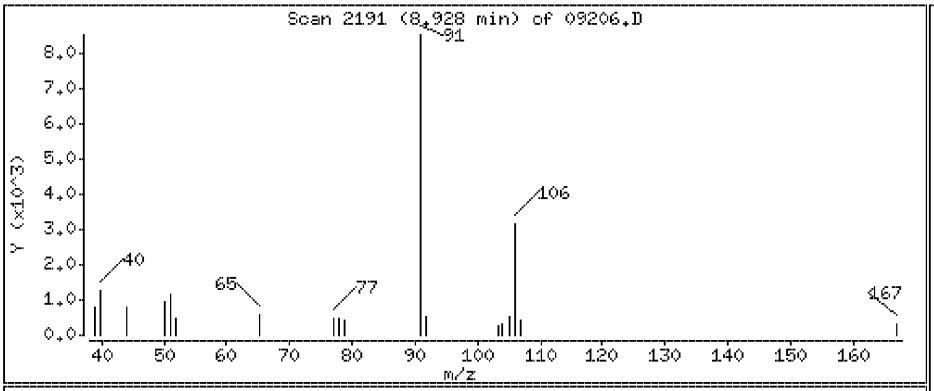
Operator: DR1

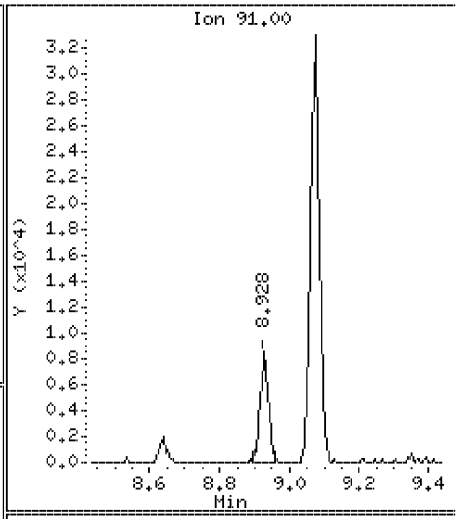
Column phase: J&W DB-5

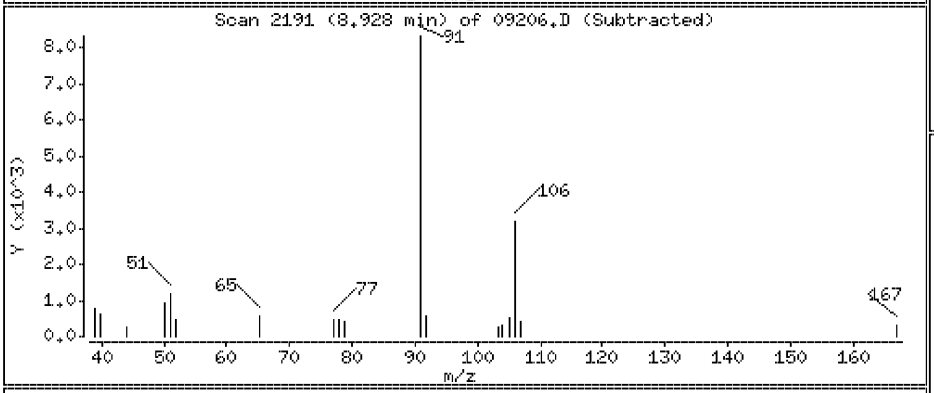
Column diameter: 0.32

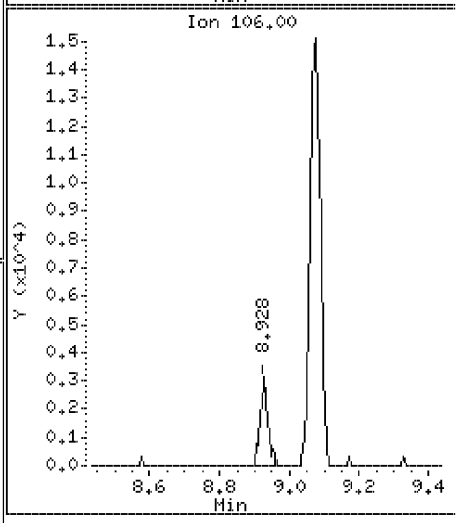
69 Ethyl Benzene

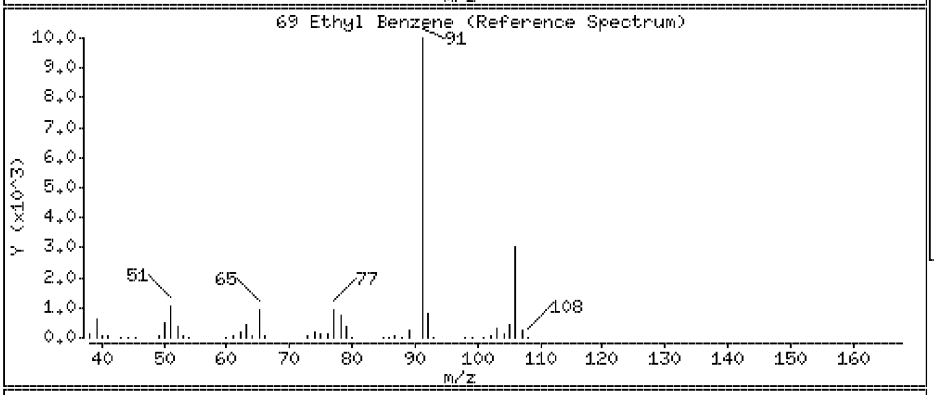
Concentration: 0.894 ppbv

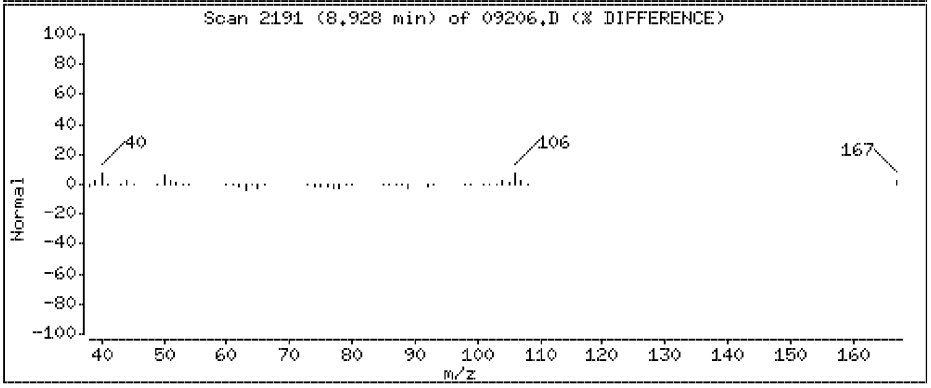












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

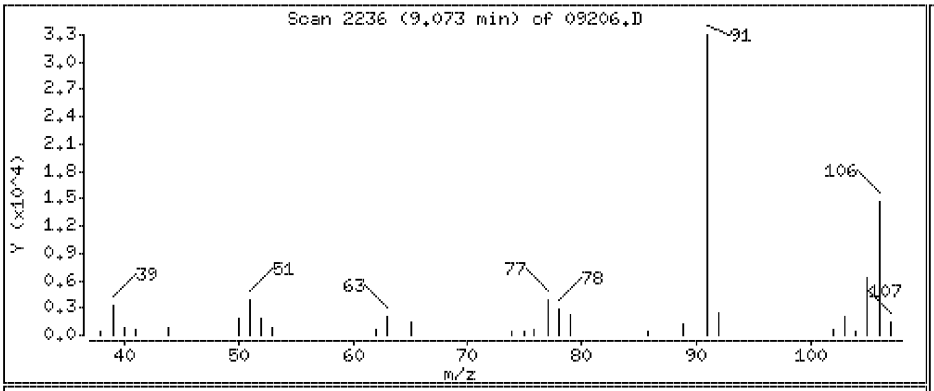
Operator: DR1

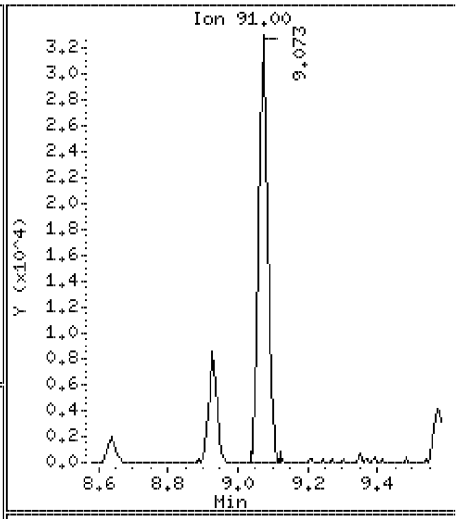
Column phase: J&W DB-5

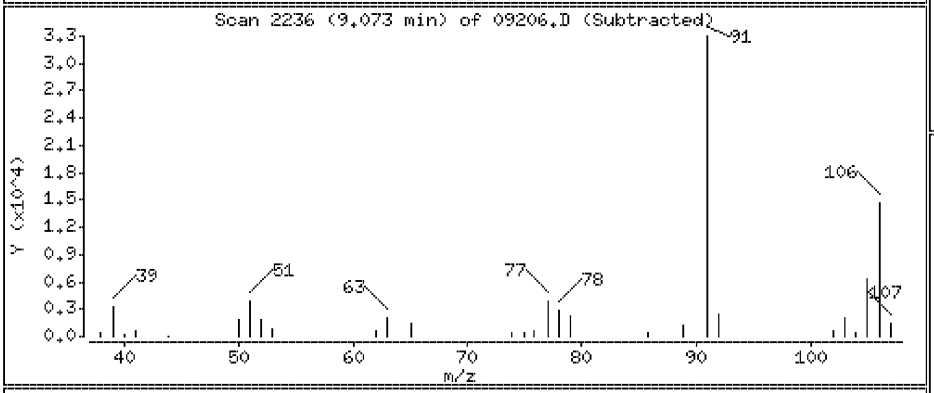
Column diameter: 0.32

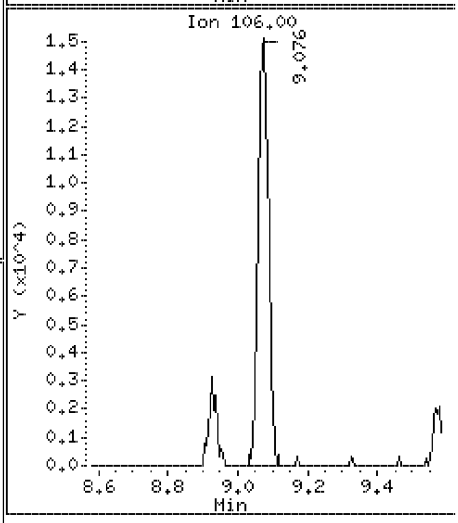
70 m&p-Xylene

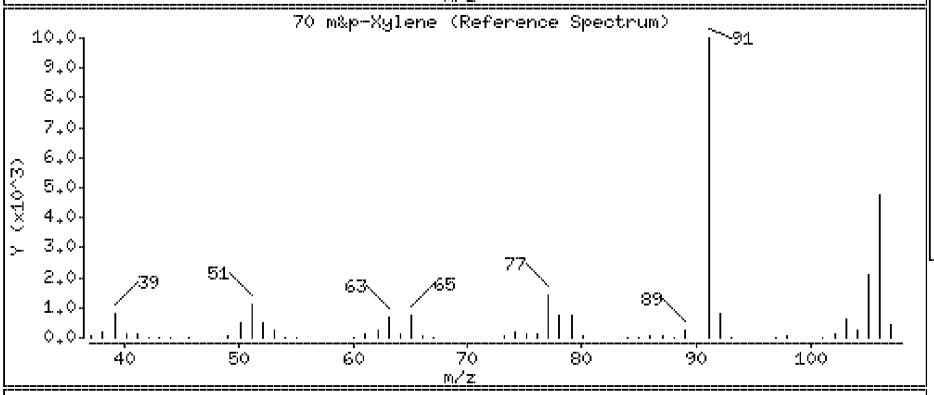
Concentration: 5.21 ppbv

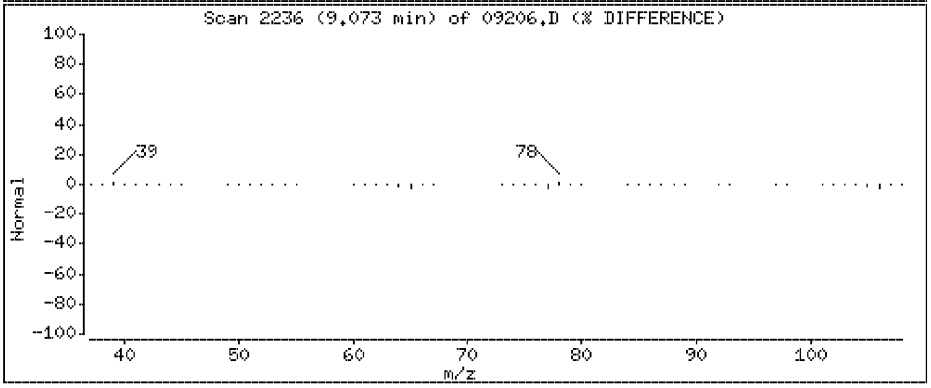












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09206.D

Date : 02-APR-2017 11:06

Client ID:

Instrument: 10airB.i

Sample Info:

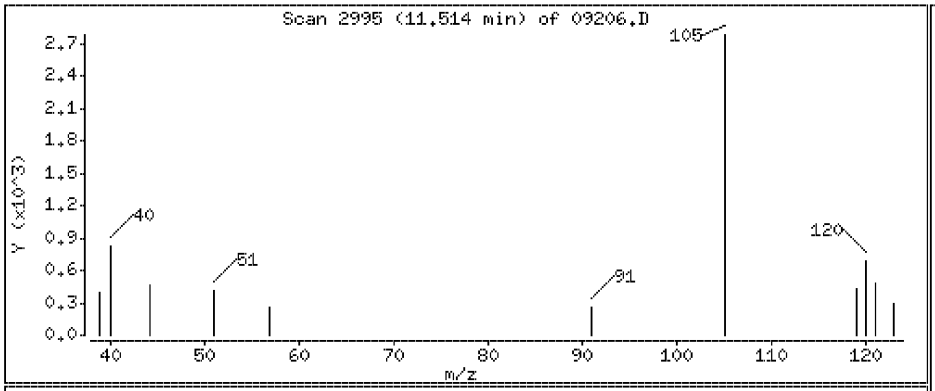
Operator: DR1

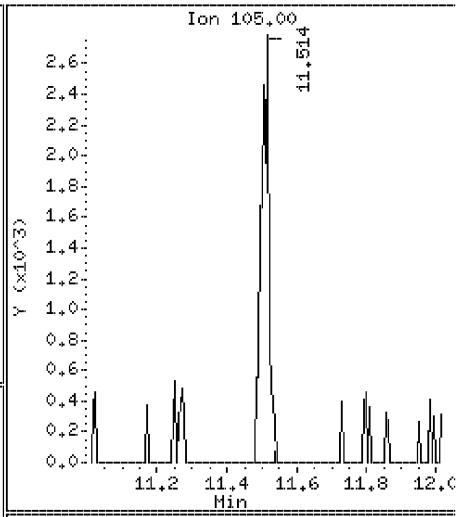
Column phase: J&W DB-5

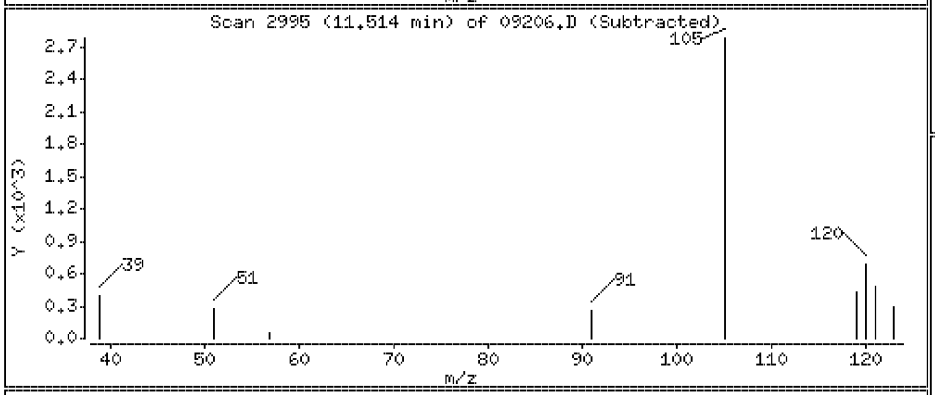
Column diameter: 0.32

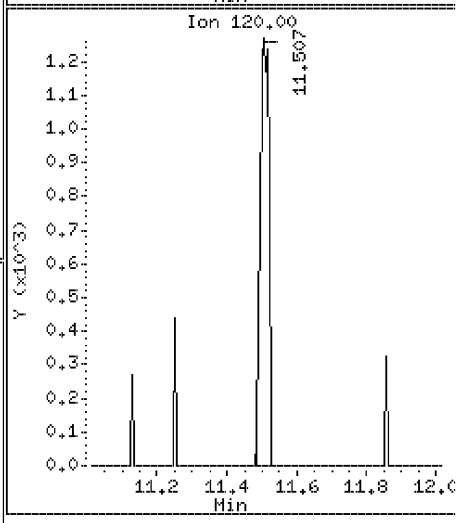
82 1,2,4-Trimethylbenzene

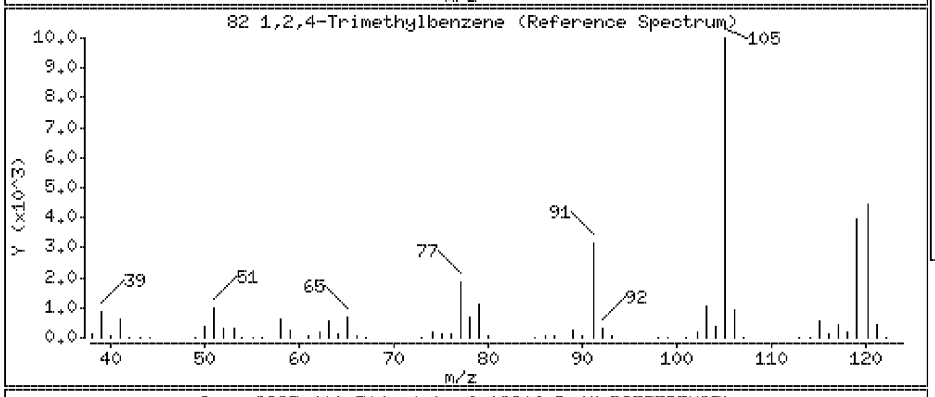
Concentration: 0.345 ppbv

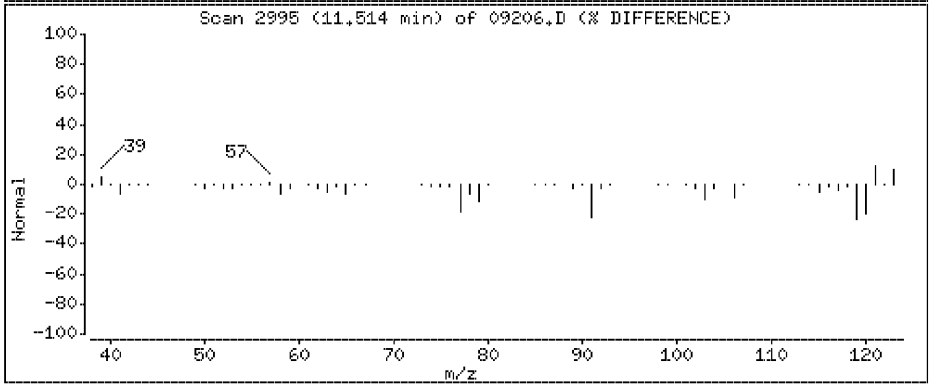












Data File: \\192.168.10.12\chem\10airB.i\040217.b/09206.D
Injection Date: 02-APR-2017 11:06
Instrument: 10airB.i
Lab Sample ID: 10381335021
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_60_20170307 **Lab ID: 10381335022** Collected: 03/07/17 12:20 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**20.6**	ug/m3	4.2	1.5	1.75		03/28/17 22:17	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/28/17 22:17	107-05-1	
Benzene	**0.58**	ug/m3	0.57	0.21	1.75		03/28/17 22:17	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/28/17 22:17	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/28/17 22:17	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/28/17 22:17	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/28/17 22:17	106-99-0	
2-Butanone (MEK)	**3.7J**	ug/m3	5.2	0.40	1.75		03/28/17 22:17	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/28/17 22:17	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/28/17 22:17	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/28/17 22:17	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/28/17 22:17	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/28/17 22:17	75-00-3	
Chloroform	**0.64J**	ug/m3	0.87	0.33	1.75		03/28/17 22:17	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/28/17 22:17	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 22:17	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/28/17 22:17	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/28/17 22:17	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/28/17 22:17	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/28/17 22:17	106-93-4	
1,2-Dichlorobenzene	**3.5**	ug/m3	2.1	0.90	1.75		03/28/17 22:17	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/28/17 22:17	541-73-1	
1,4-Dichlorobenzene	**1.3J**	ug/m3	2.1	0.87	1.75		03/28/17 22:17	106-46-7	
Dichlorodifluoromethane	**6.1**	ug/m3	1.8	0.84	1.75		03/28/17 22:17	75-71-8	
1,1-Dichloroethane	**1.2J**	ug/m3	1.4	0.27	1.75		03/28/17 22:17	75-34-3	
1,2-Dichloroethane	**0.51J**	ug/m3	0.72	0.36	1.75		03/28/17 22:17	107-06-2	
1,1-Dichloroethene	**21.7**	ug/m3	1.4	0.42	1.75		03/28/17 22:17	75-35-4	
cis-1,2-Dichloroethene	**1670**	ug/m3	1.4	0.43	1.75		03/28/17 22:17	156-59-2	
cis-1,2-Dichloroethene	**3510**	ug/m3	70.9	21.5	87.5		04/01/17 20:17	156-59-2	
trans-1,2-Dichloroethene	**8.1**	ug/m3	1.4	0.67	1.75		03/28/17 22:17	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/28/17 22:17	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/28/17 22:17	10061-01-5	
trans-1,3-Dichloropropene	**1.0J**	ug/m3	4.0	0.46	1.75		03/28/17 22:17	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/28/17 22:17	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 22:17	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/28/17 22:17	123-91-1	
Ethylbenzene	**5.0**	ug/m3	1.5	0.74	1.75		03/28/17 22:17	100-41-4	
4-Ethyltoluene	**0.96J**	ug/m3	1.8	0.33	1.75		03/28/17 22:17	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/28/17 22:17	87-68-3	
n-Hexane	**2.6**	ug/m3	1.3	0.62	1.75		03/28/17 22:17	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/28/17 22:17	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/28/17 22:17	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/28/17 22:17	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 22:17	108-87-2	
Methylene Chloride	**6.1J**	ug/m3	6.2	0.95	1.75		03/28/17 22:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/28/17 22:17	108-10-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D
Report Date: 03-Apr-2017 15:09

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08726.D
Lab Smp Id: 10381335022
Inj Date : 28-MAR-2017 22:17
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 26
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	3.021	2.996	(0.539)	225295	6.24702	10.9	
5	Dichlorodifluoromethane	85	3.050	3.028	(0.544)	92592	0.69725	1.22(H)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.545	3.539	(0.632)	26047	1.62833	2.85	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.581	3.581	(0.639)	21081	0.46310	0.810	
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	3.658	3.658	(0.652)	115833	1.24610	2.18	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.738	3.713	(0.667)	307439	4.87778	8.54(Q)	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.896	3.896	(0.695)	200943	3.07063	5.37	
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.947	3.938	(0.704)	2263068	30.3175	53.1(A)	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D
Report Date: 03-Apr-2017 15:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.986	3.999	(0.711)	47526	0.98362	1.72	
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.259	4.269	(0.760)	42137	1.15468	2.02	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.439	4.385	(0.792)	46214	0.43591	0.763(MH)	
	31 1,1-Dichloroethane	63	4.407	4.404	(0.786)	11371	0.16022	0.280(H)	
$	32 Hexane-d14(S)	66	4.484	4.478	(0.800)	905375	10.0043	10.0	
	33 Methyl Ethyl Ketone	72	4.558	4.549	(0.813)	13666	0.70749	1.24(Q)	
	34 n-Hexane	57	4.577	4.574	(0.816)	29698	0.41613	0.728(QM)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	9486070	237.055	415(AQ)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.828	4.838	(0.861)	5854	0.07375	0.129	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.233	5.227	(0.933)	65248	0.63292	1.11	
	42 1,2-Dichloroethane	62	5.233	5.233	(0.933)	5635	0.07123	0.125	
	43 Benzene	78	5.471	5.462	(0.976)	14195	0.10201	0.179	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.606	5.610	(1.000)	2412472	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.886	5.886	(1.050)	16639	0.18947	0.332(M)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.983	5.986	(1.067)	973809	13.3350	23.3	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						(D)
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	7.076	6.982	(1.262)	109	0.12988	0.227(Q)	
$	59 Toluene-d8 (S)	98	7.069	7.073	(1.261)	1995790	9.81296	9.81	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.146	7.150	(1.275)	2813088	16.6134	29.1	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.581	(0.876)	41936	0.36708	0.642(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.982	7.986	(0.924)	785616	8.25017	14.4	
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	1453980	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.931	(1.034)	137723	0.64628	1.13	
	70 m&p-Xylene	91	9.072	9.079	(1.050)	765470	4.70140	8.23	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	9.574	9.577	(1.108)	38053	0.22773	0.399	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D
Report Date: 03-Apr-2017 15:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.899	10.912	(1.262)	22214	0.10988	0.192	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	679057	9.83812	9.84	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	11.883	11.889	(1.376)	11057	0.11749	0.206(Q)	
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	29626	0.32834	0.575	
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.169	(1.641)	2480	0.36747	0.643(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D
Report Date: 03-Apr-2017 15:09

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08726.D
Lab Smp Id: 10381335022
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2412472	-14.81
67 Chlorobenzene - d	1804482	1082689	2526275	1453980	-19.42

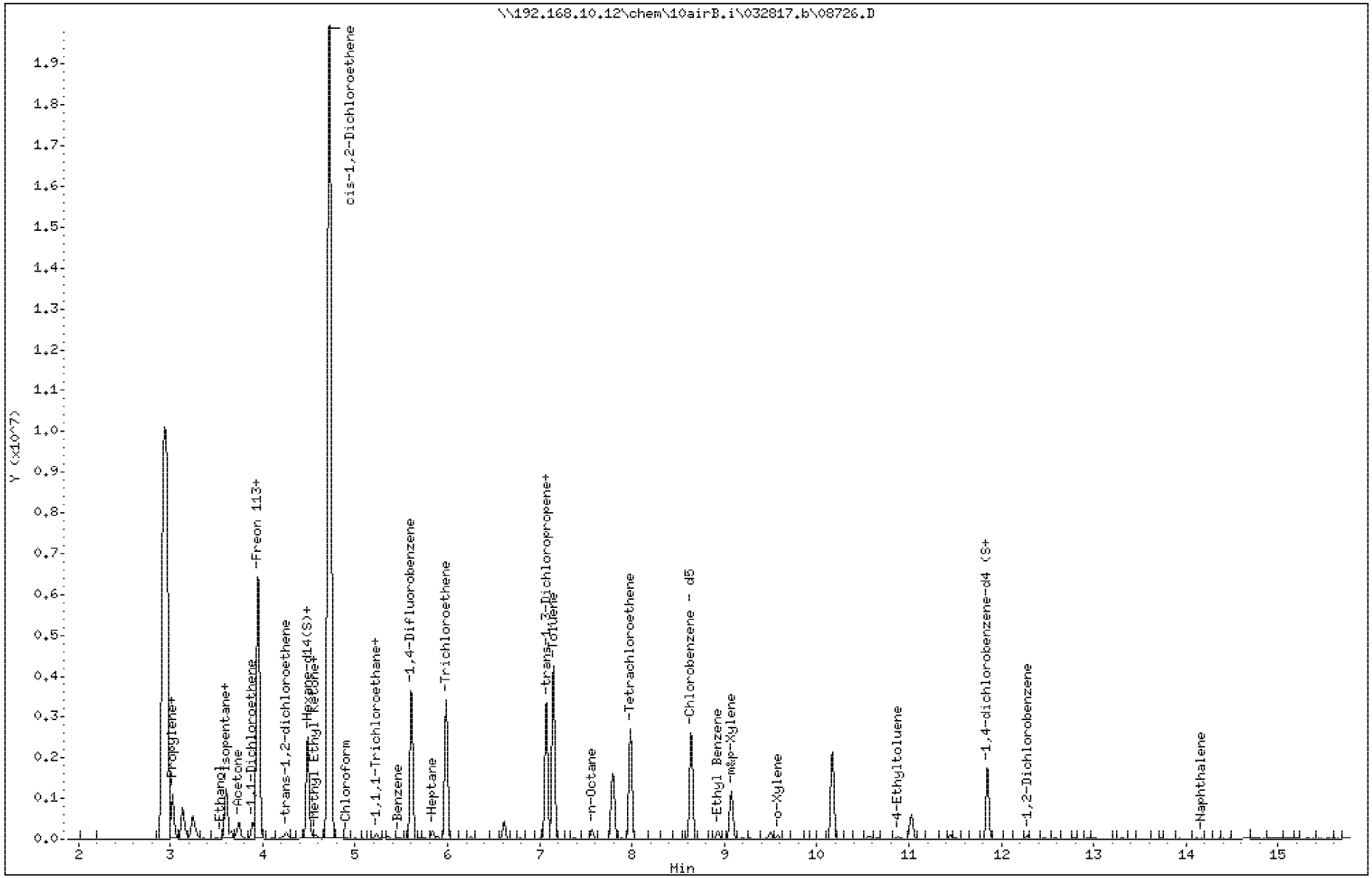
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D
Date : 28-MAR-2017 22:17
Client ID:
Sample Info:

Column phase: J&W DB-5

Instrument: 10airB.i
Operator: NCK
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

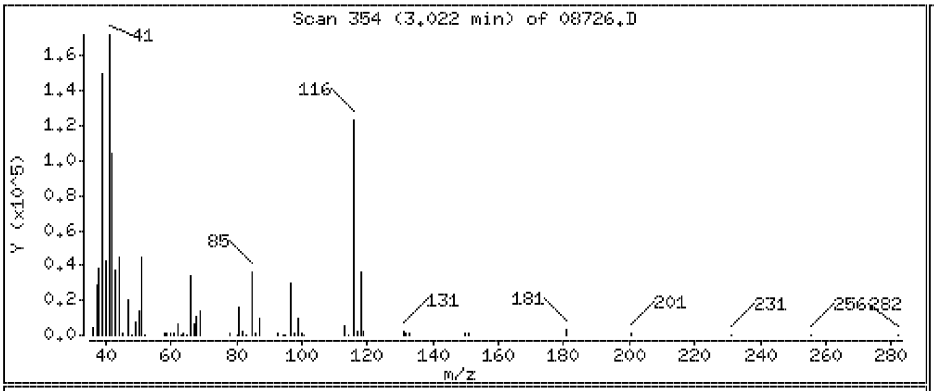
Operator: NCK

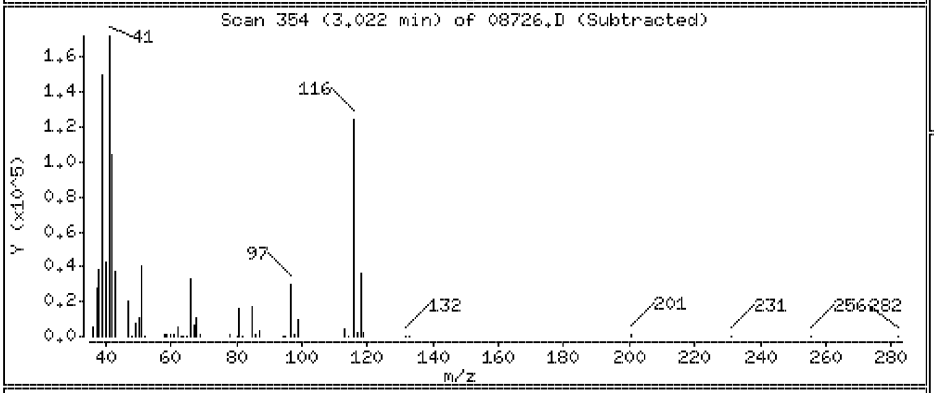
Column phase: J&W DB-5

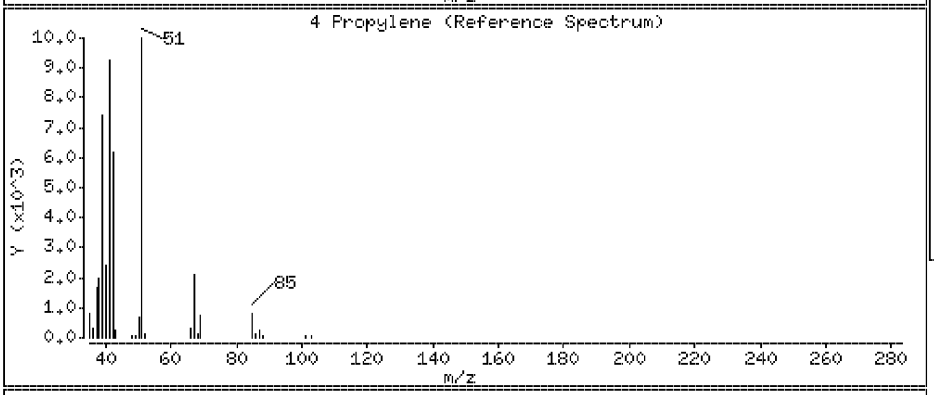
Column diameter: 0.32

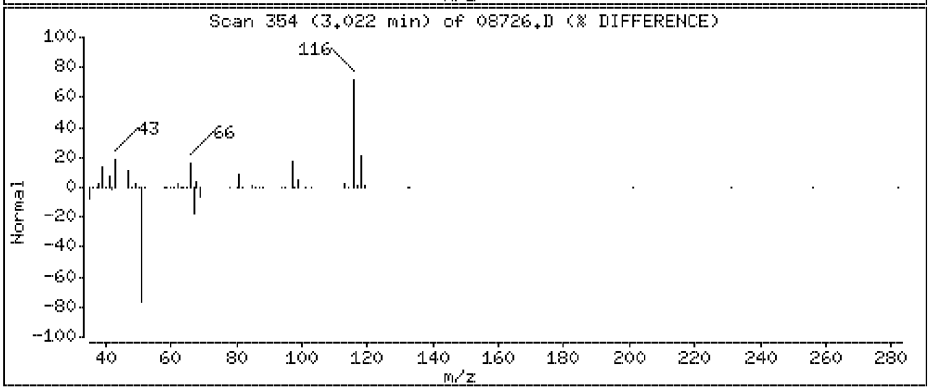
4 Propylene

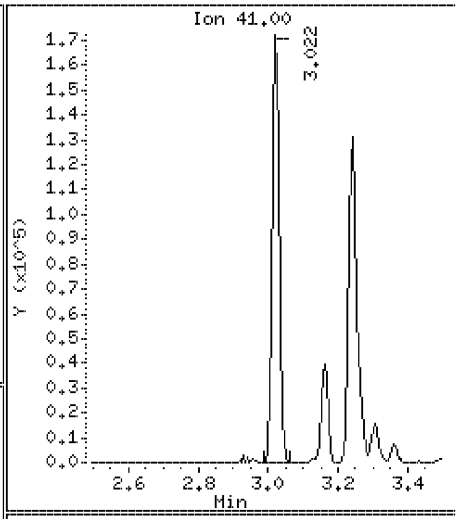
Concentration: 10.9 ppbv

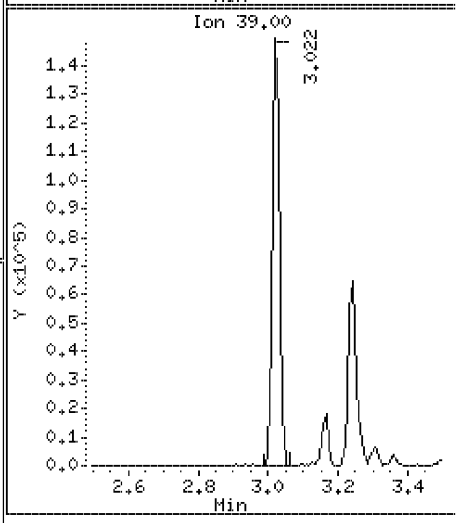












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

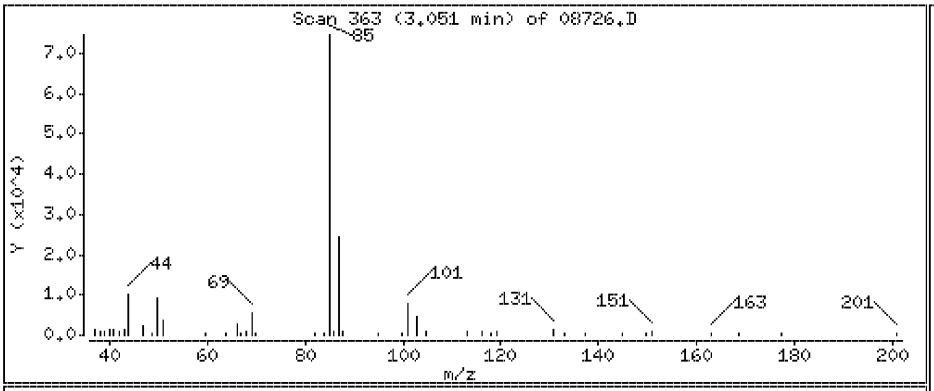
Operator: NCK

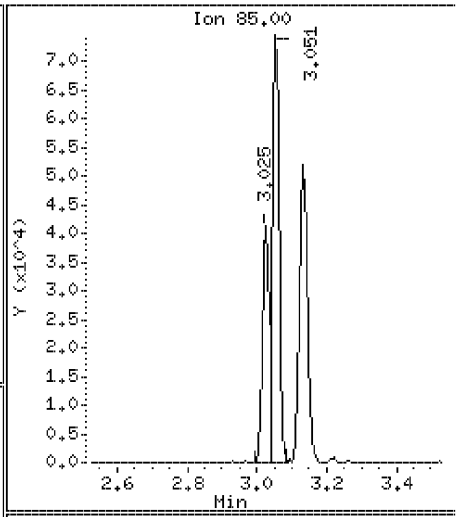
Column phase: J&W DB-5

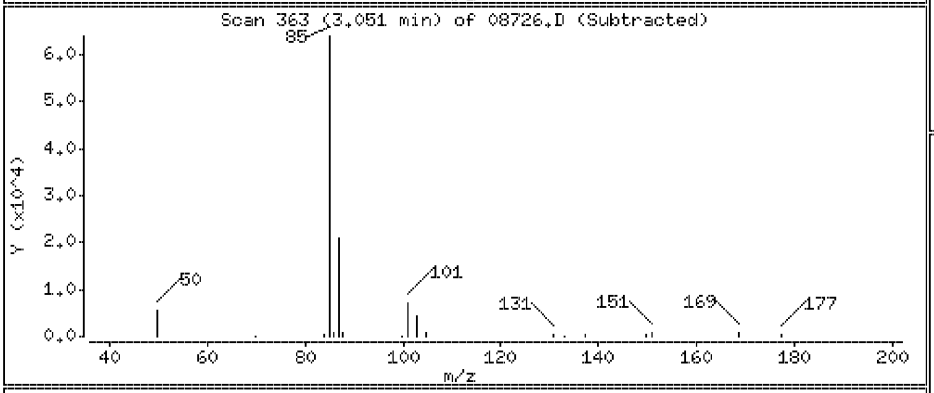
Column diameter: 0.32

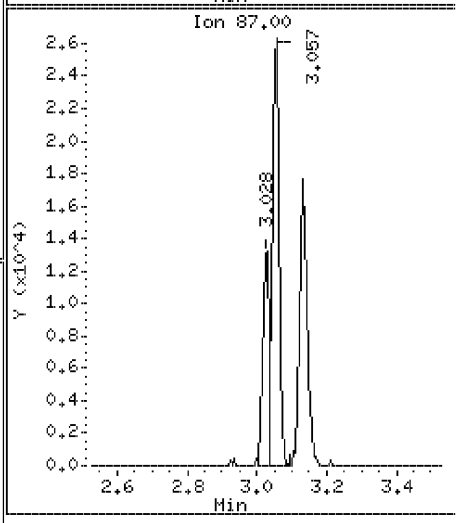
5 Dichlorodifluoromethane

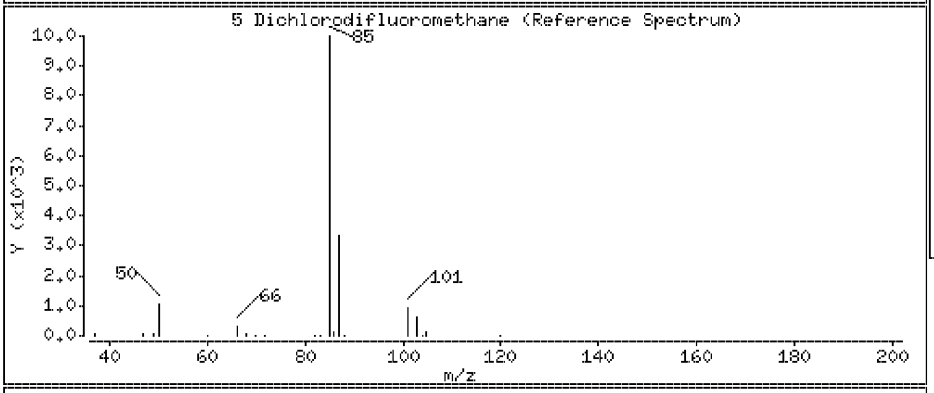
Concentration: 1.22 ppbv

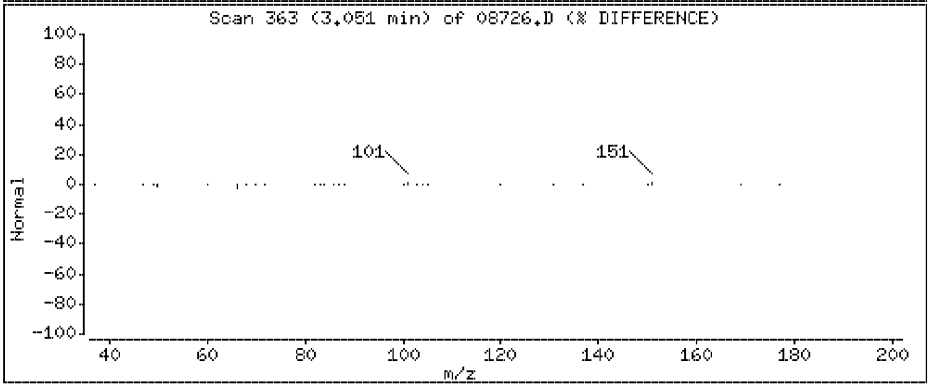












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

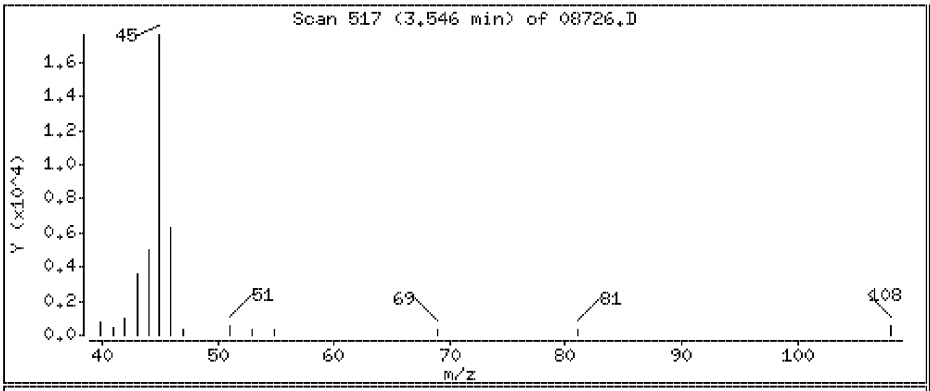
Operator: NCK

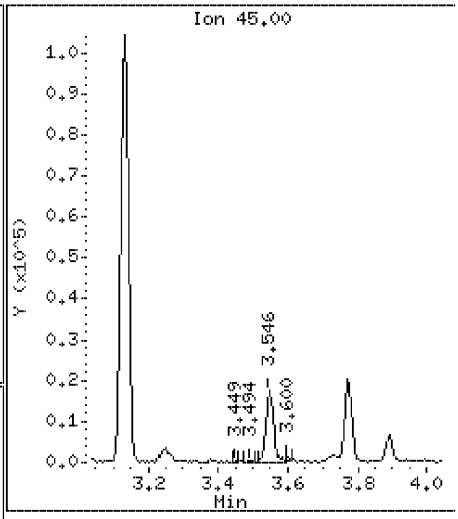
Column phase: J&W DB-5

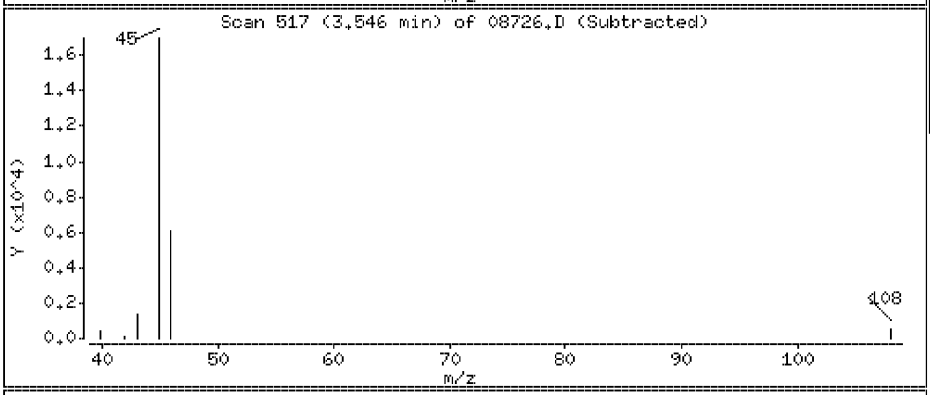
Column diameter: 0.32

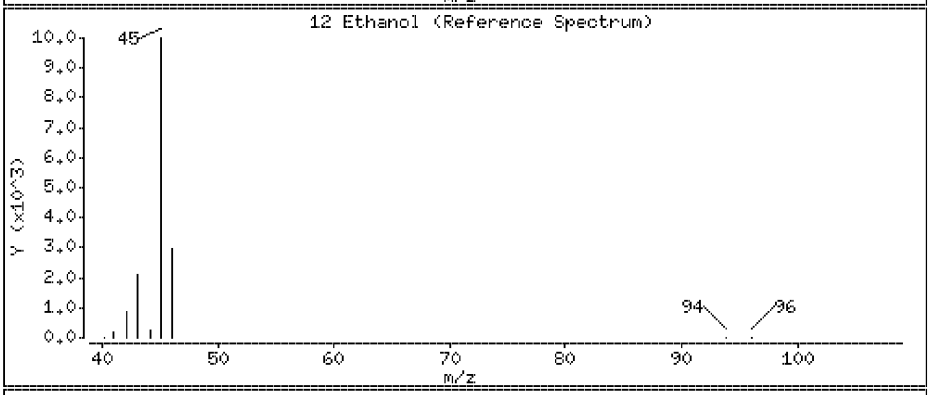
12 Ethanol

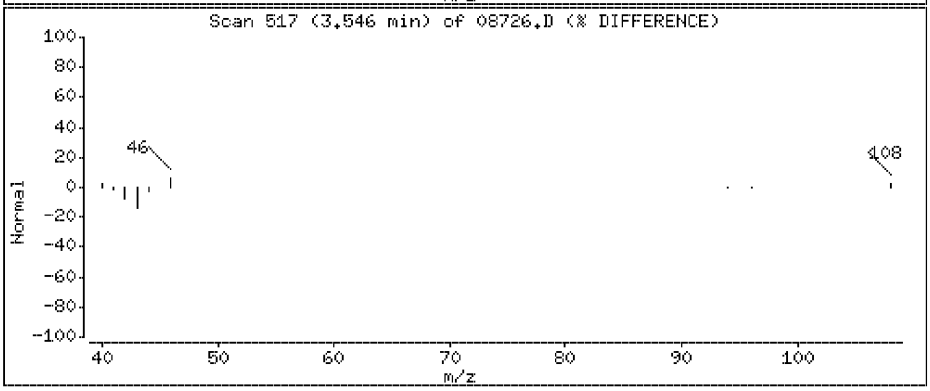
Concentration: 2.85 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

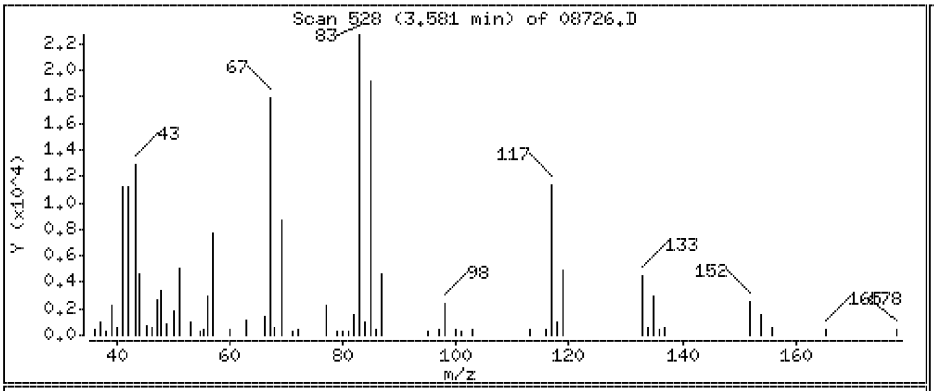
Operator: NCK

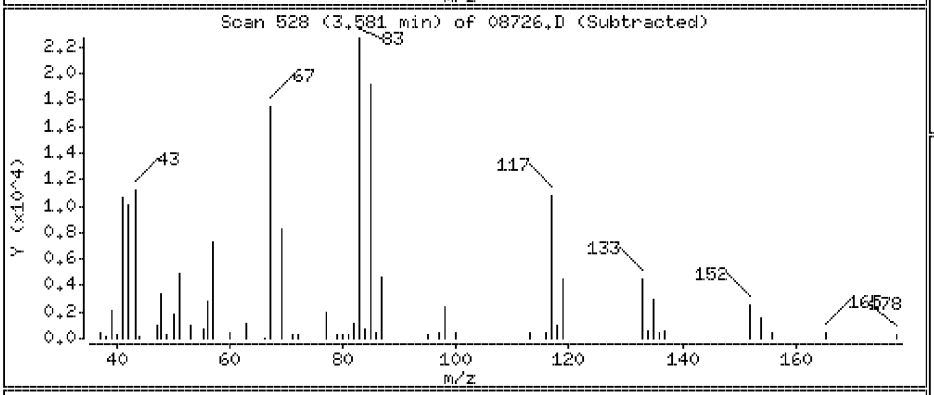
Column phase: J&W DB-5

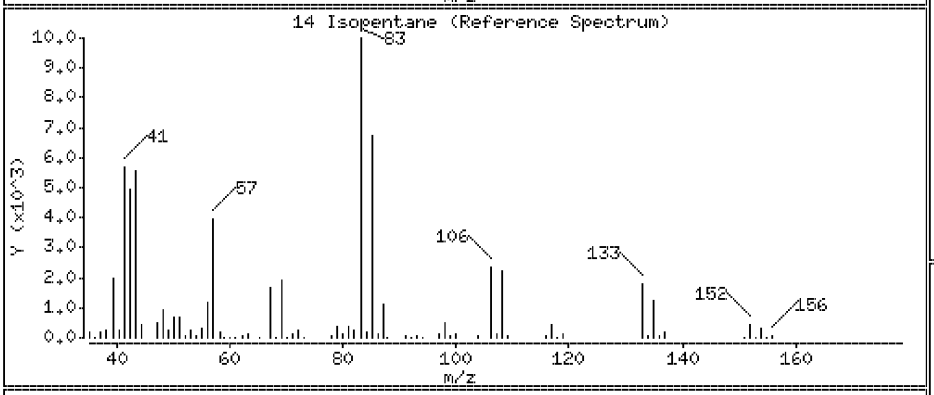
Column diameter: 0.32

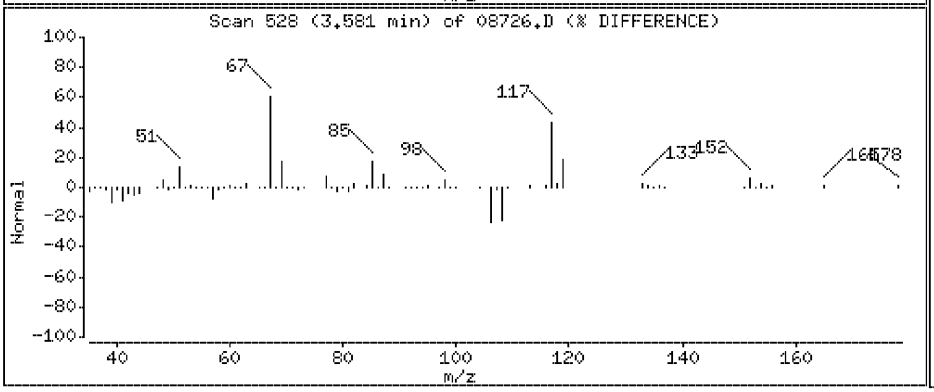
14 Isopentane

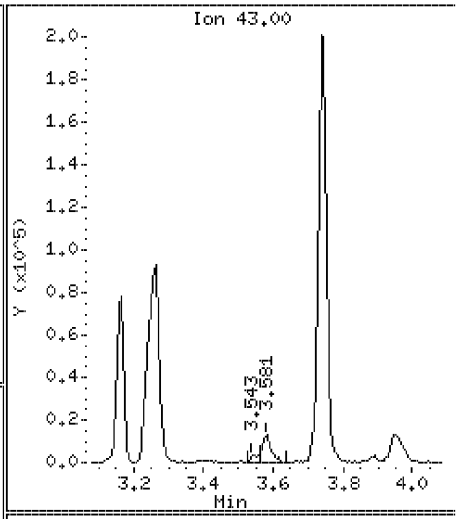
Concentration: 0.810 ppbv

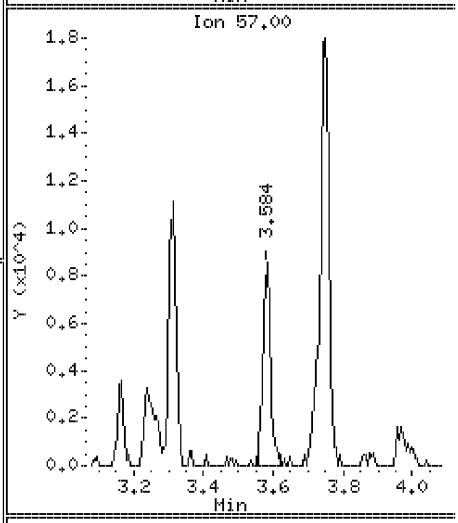


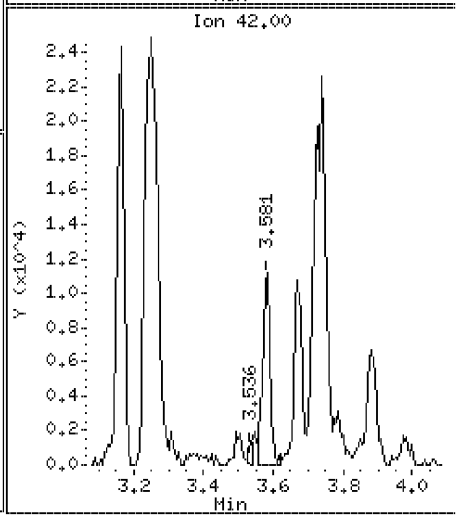












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

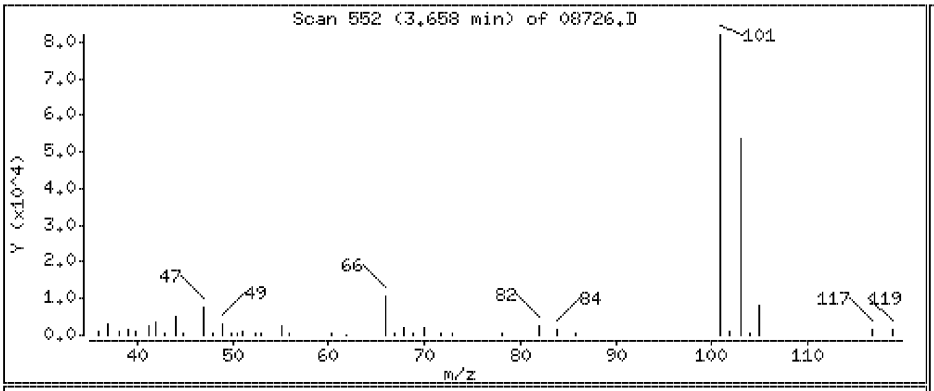
Operator: NCK

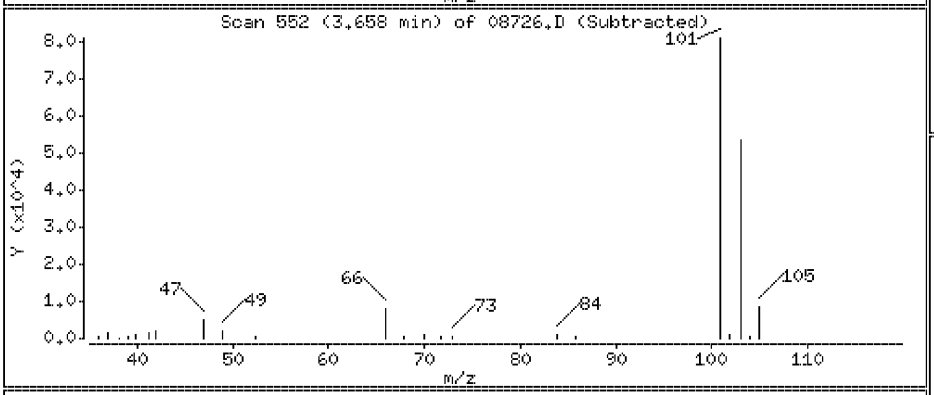
Column phase: J&W DB-5

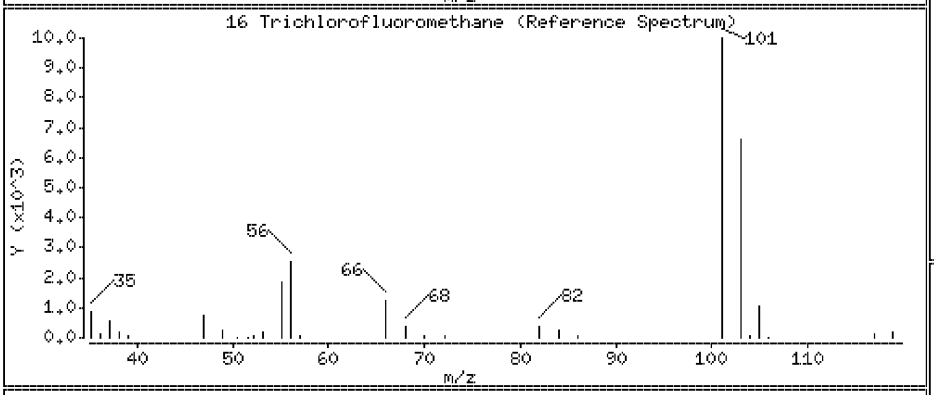
Column diameter: 0.32

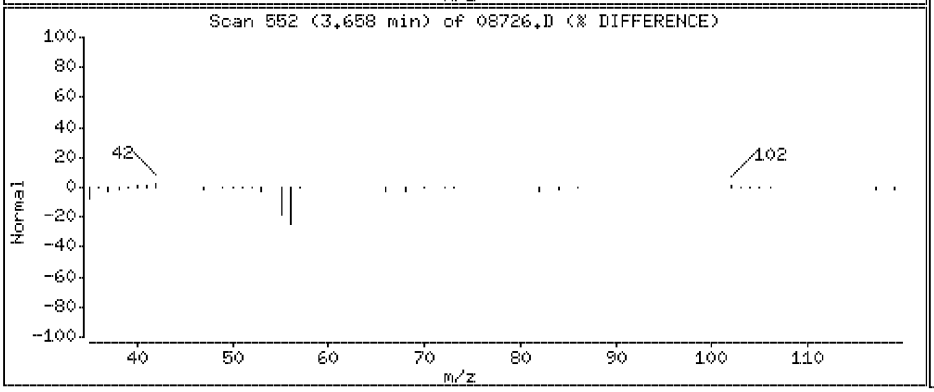
16 Trichlorofluoromethane

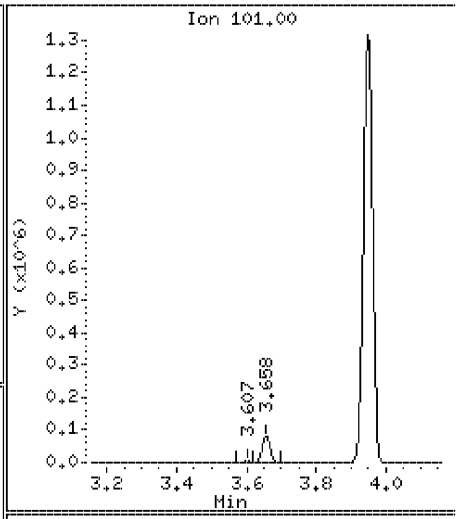
Concentration: 2.18 ppbv

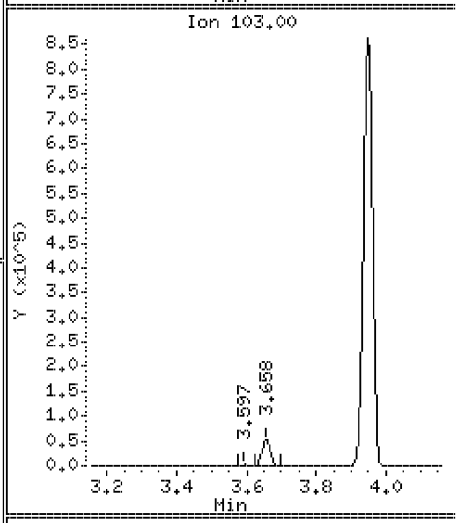


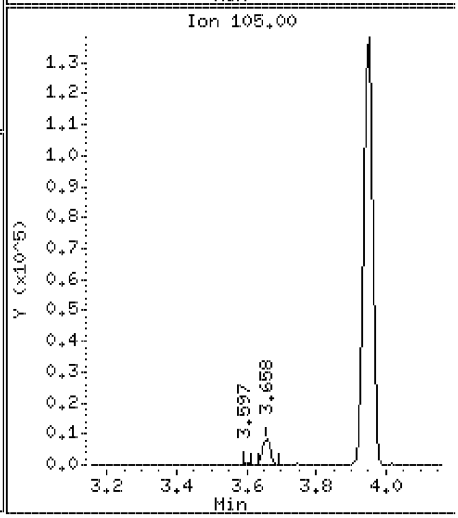












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

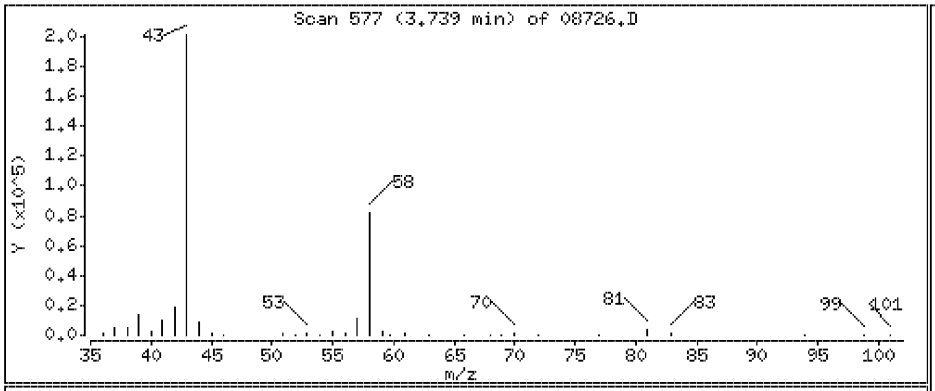
Operator: NCK

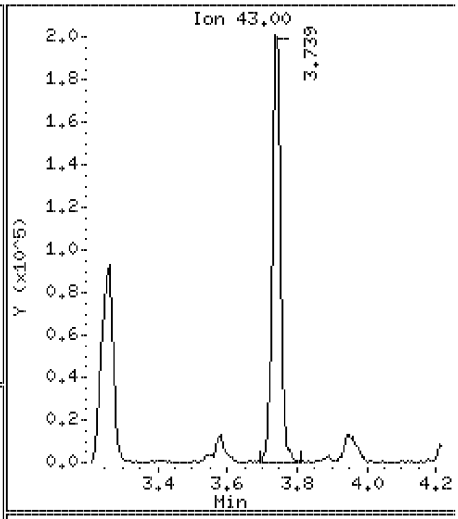
Column phase: J&W DB-5

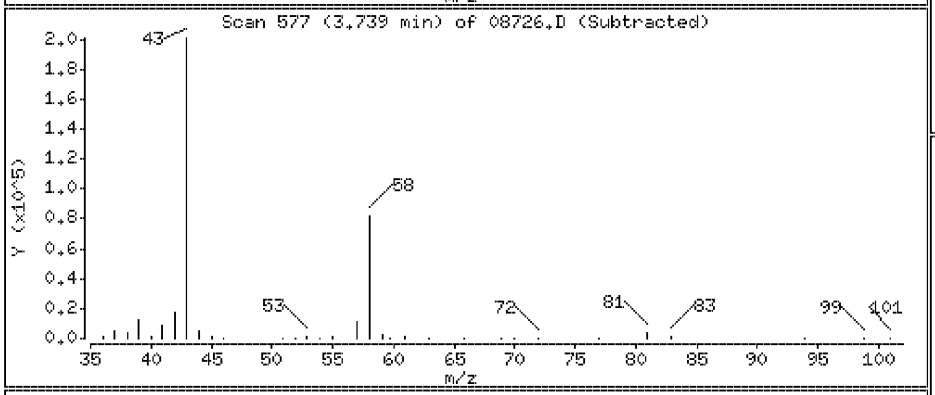
Column diameter: 0.32

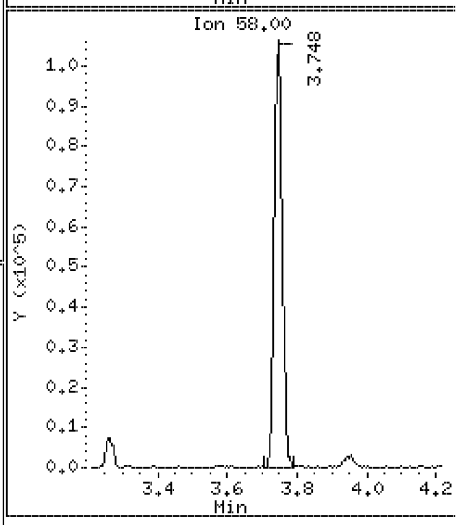
18 Acetone

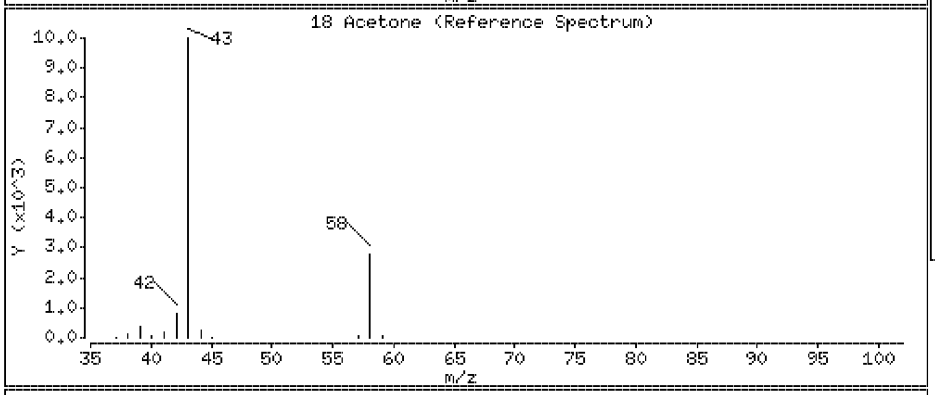
Concentration: 8.54 ppbv

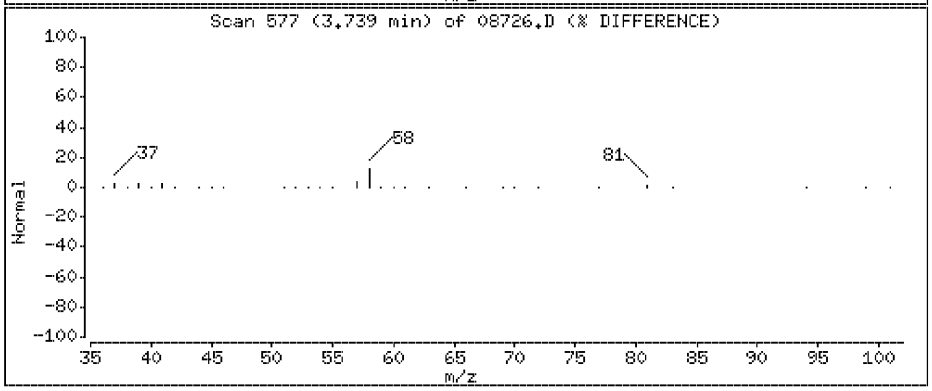












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

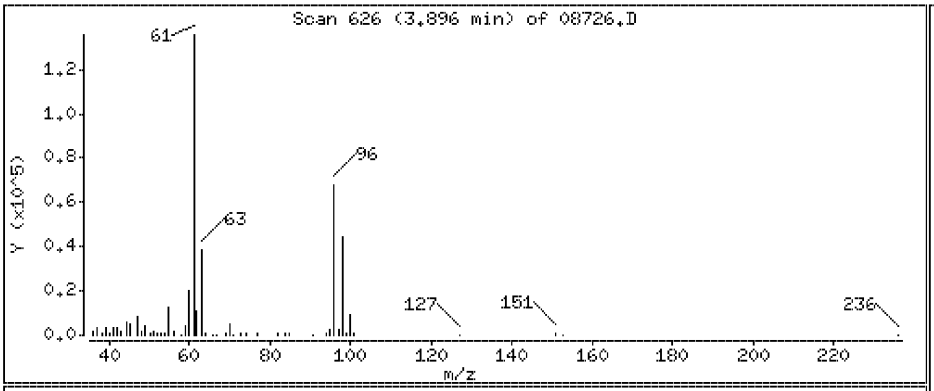
Operator: NCK

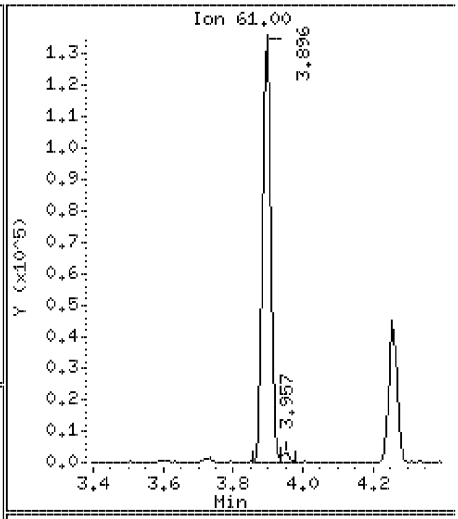
Column phase: J&W DB-5

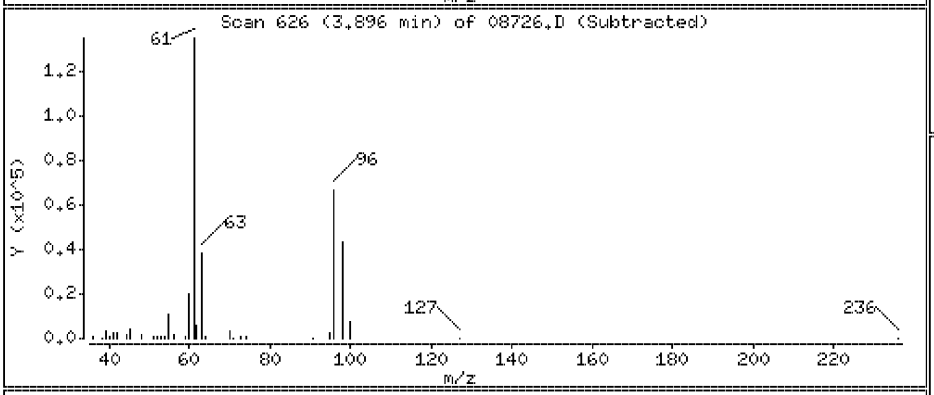
Column diameter: 0.32

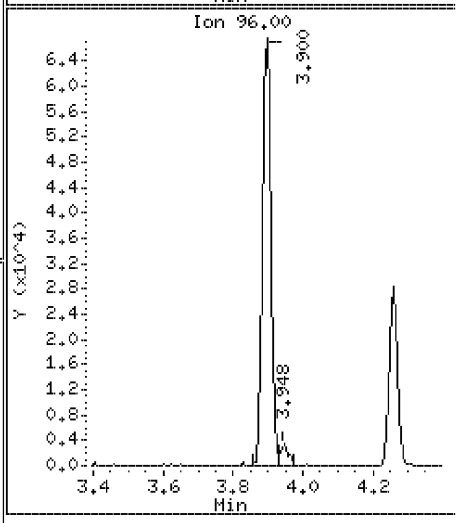
20 1,1-Dichloroethene

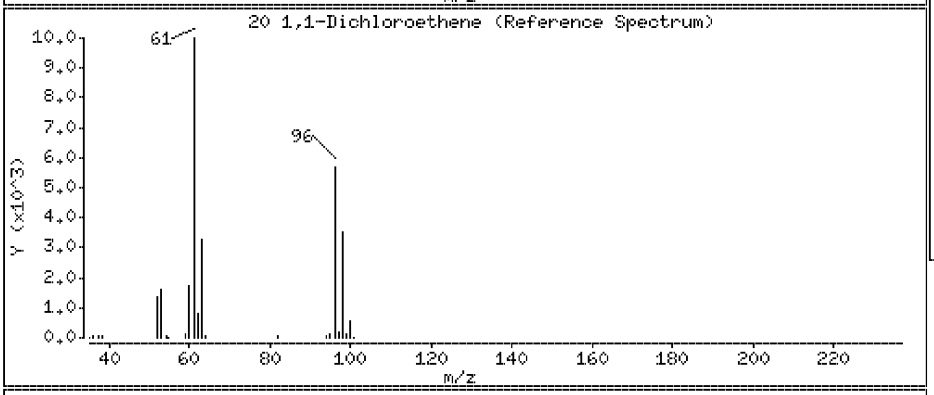
Concentration: 5.37 ppbv

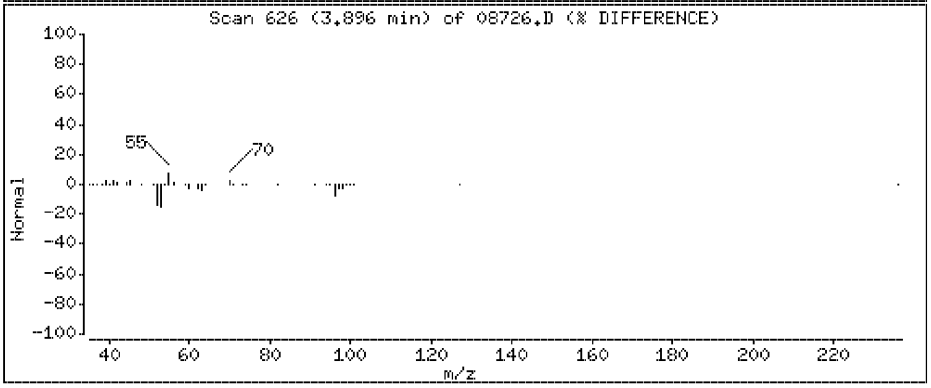












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

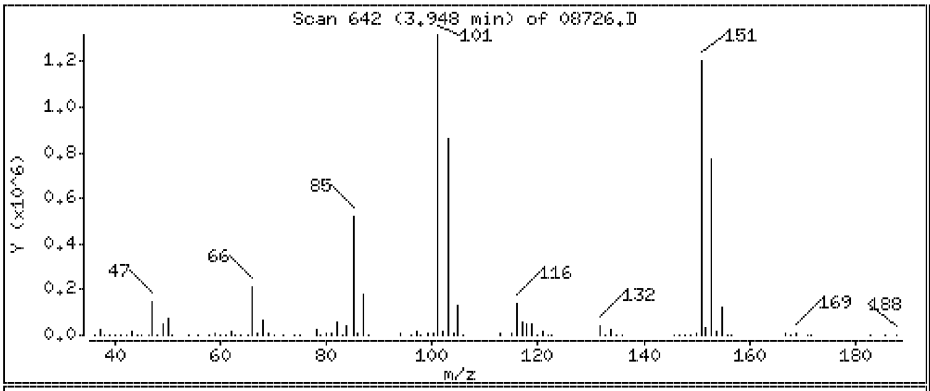
Operator: NCK

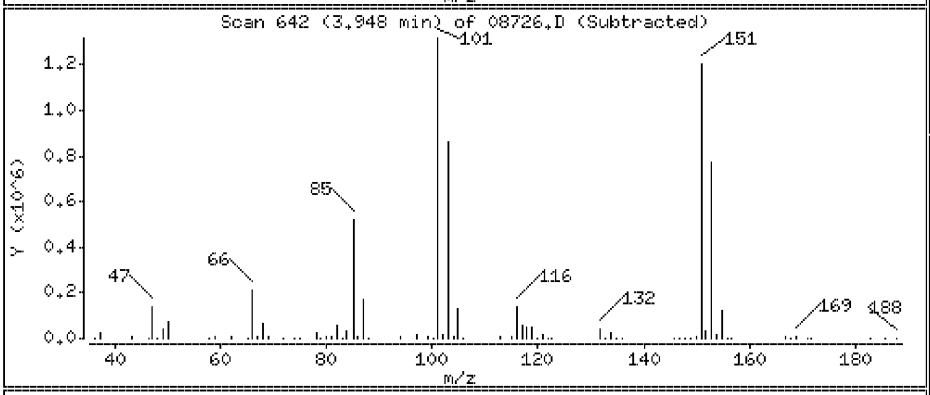
Column phase: J&W DB-5

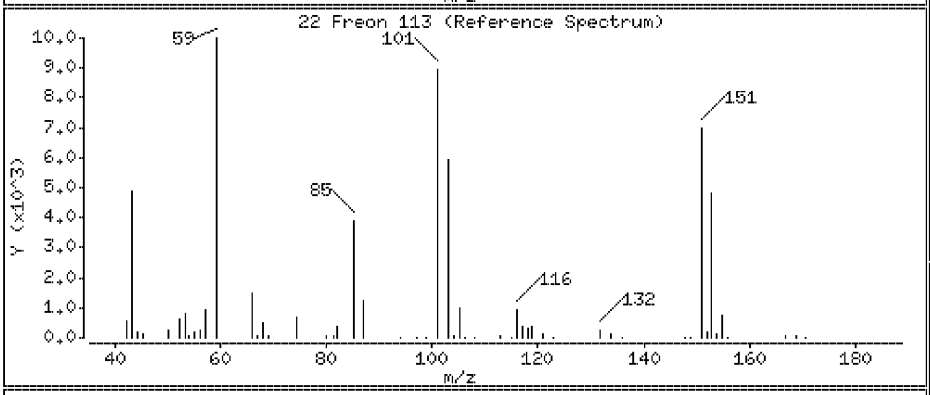
Column diameter: 0.32

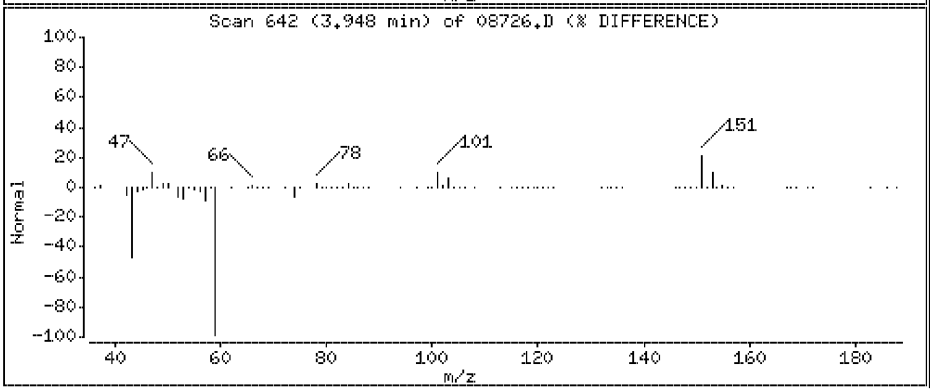
22 Freon 113

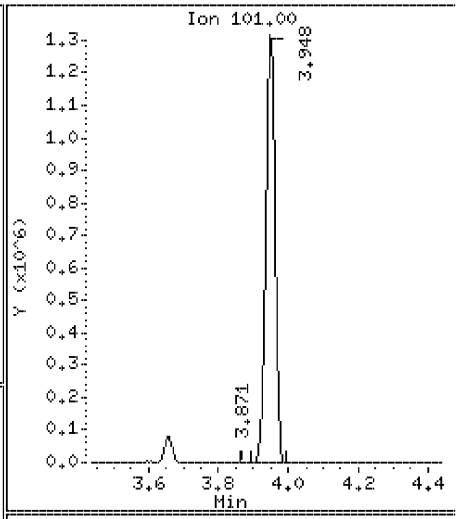
Concentration: 53.1 ppbv

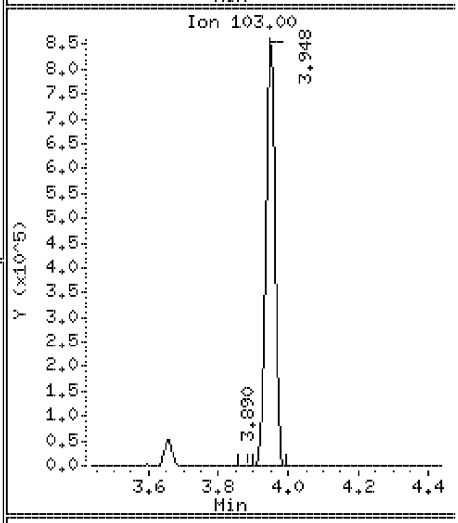


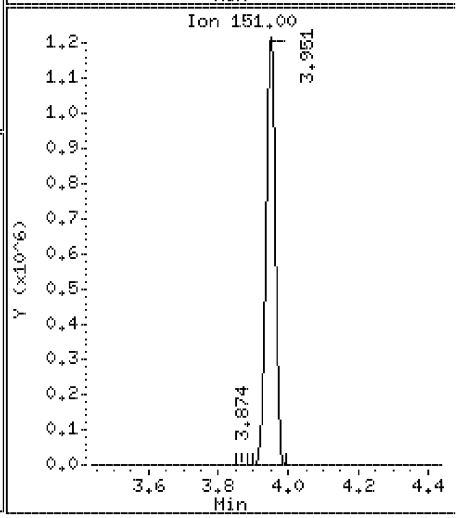












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

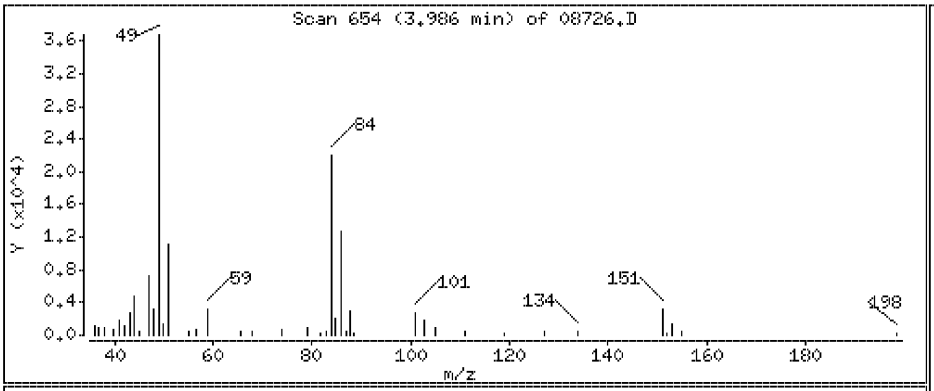
Operator: NCK

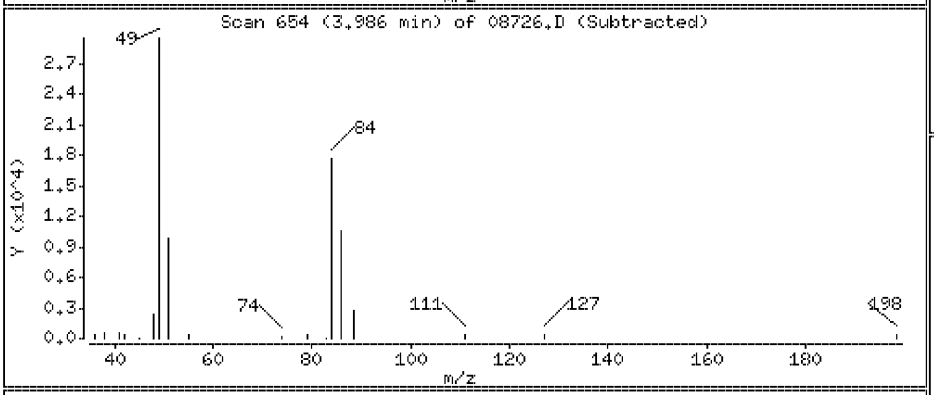
Column phase: J&W DB-5

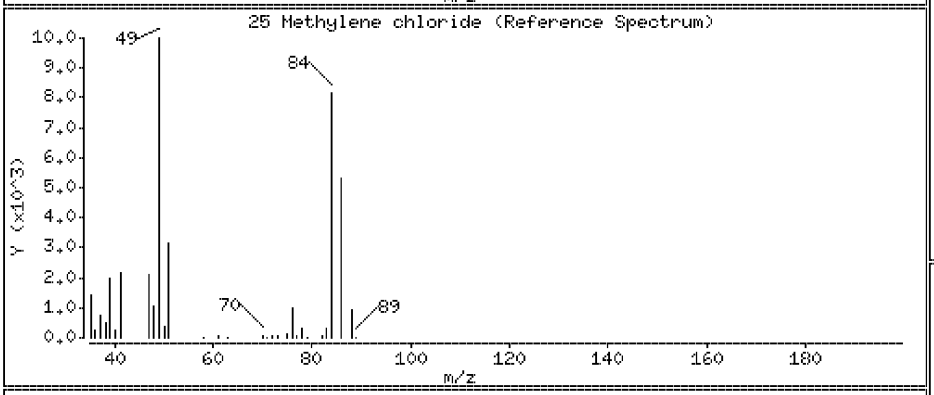
Column diameter: 0.32

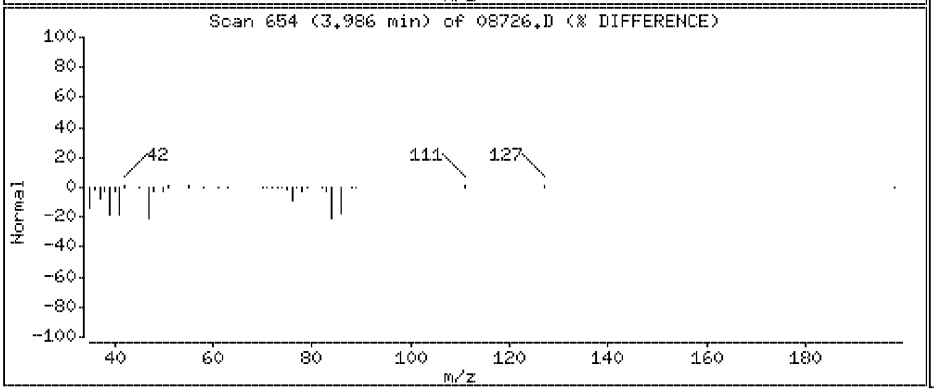
25 Methylene chloride

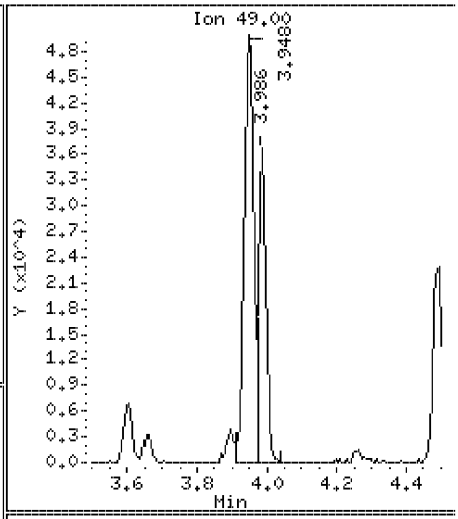
Concentration: 1.72 ppbv

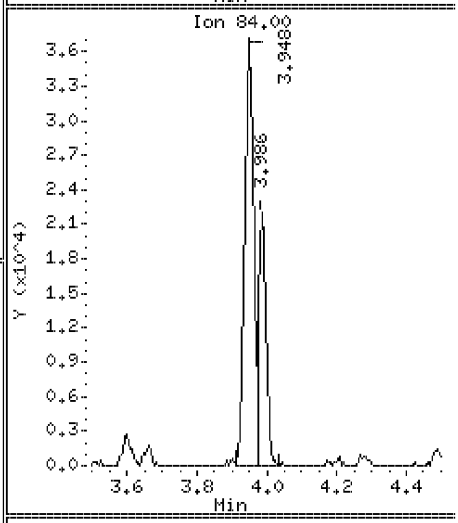


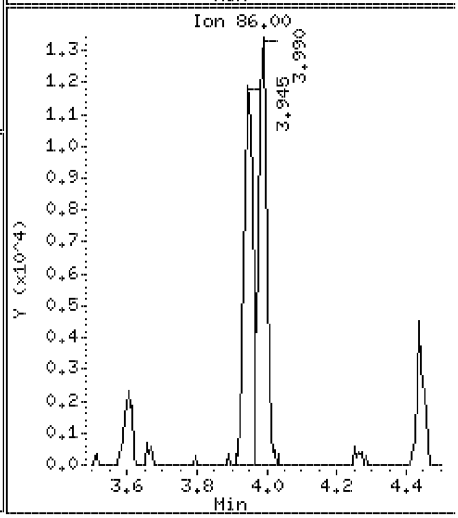












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

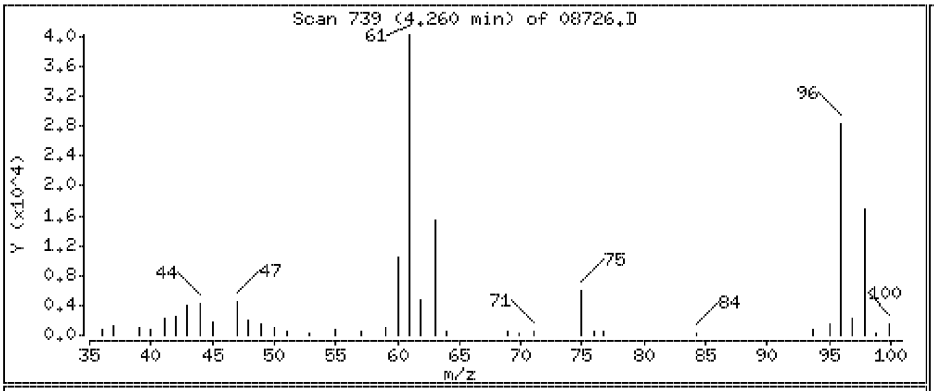
Operator: NCK

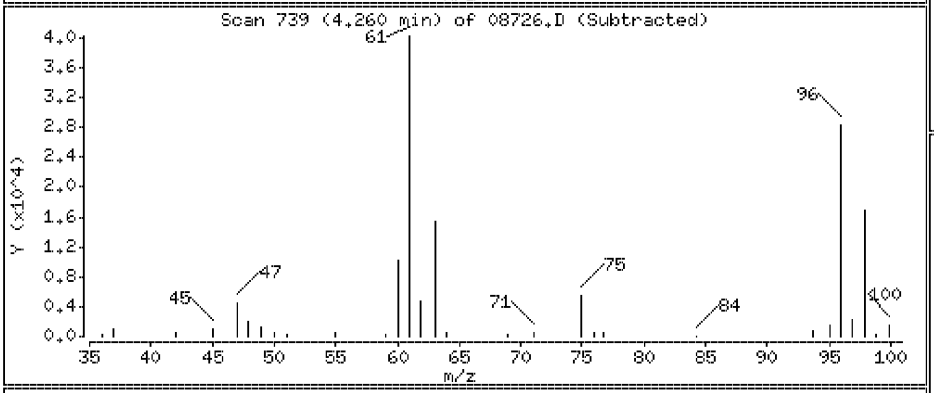
Column phase: J&W DB-5

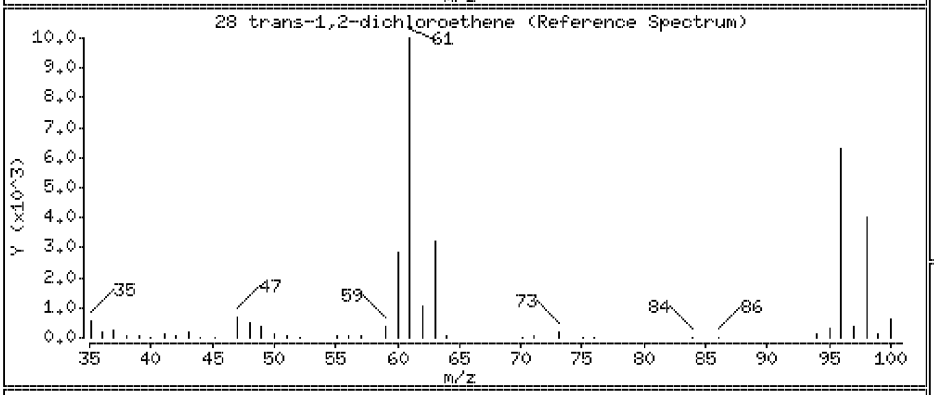
Column diameter: 0.32

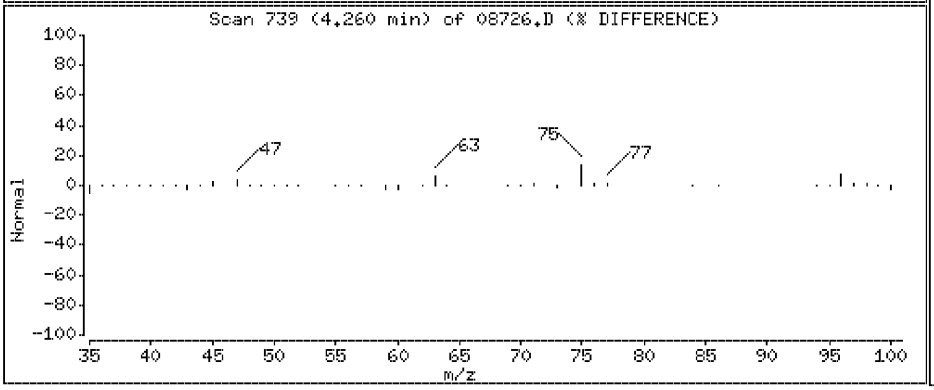
28 trans-1,2-dichloroethene

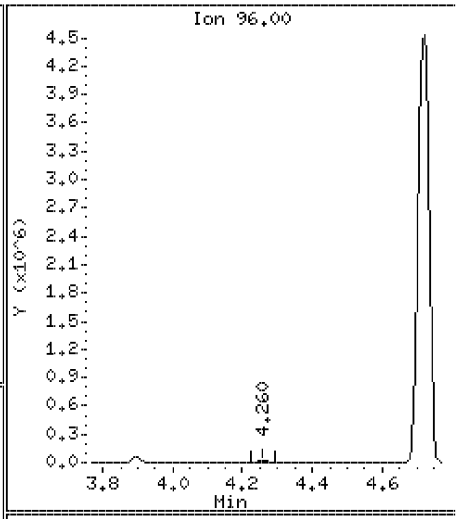
Concentration: 2.02 ppbv

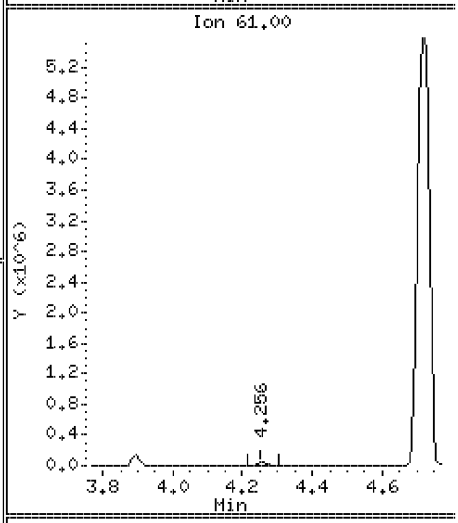


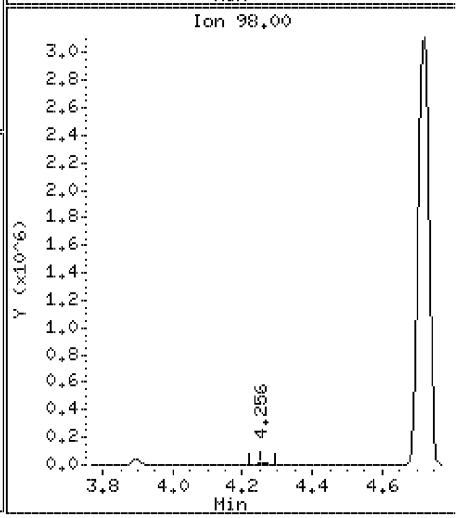












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

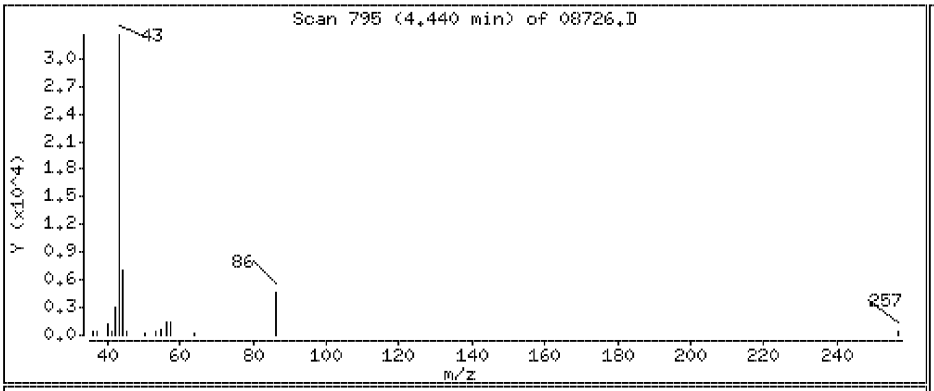
Operator: NCK

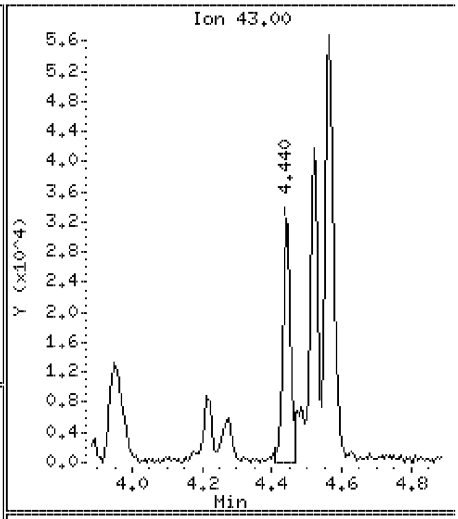
Column phase: J&W DB-5

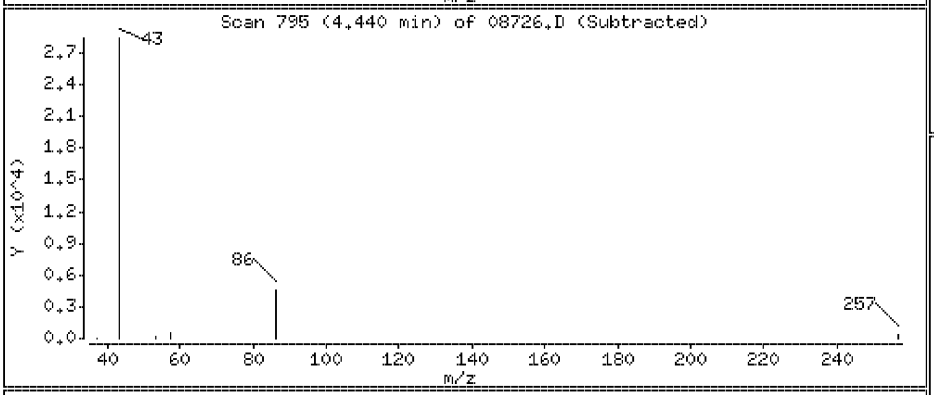
Column diameter: 0.32

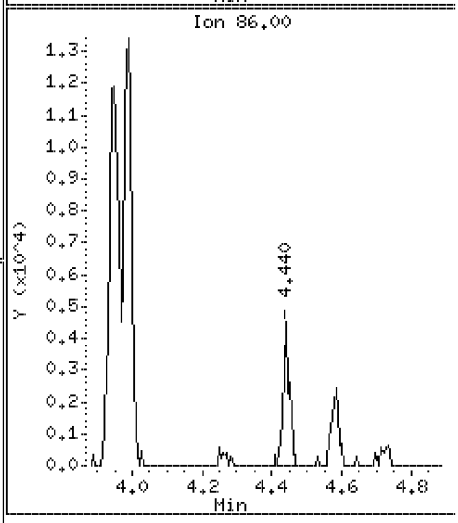
30 Vinyl Acetate

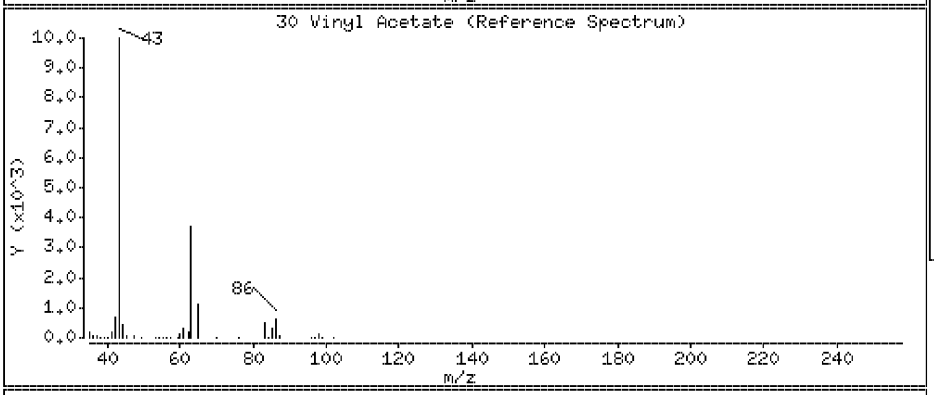
Concentration: 0.763 ppbv

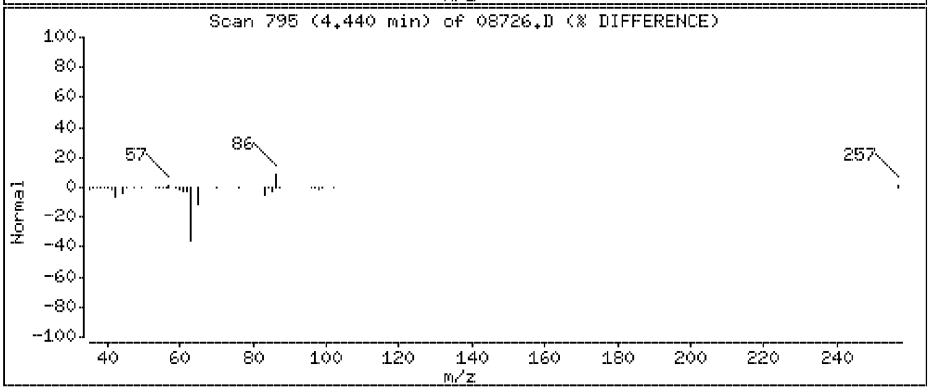












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

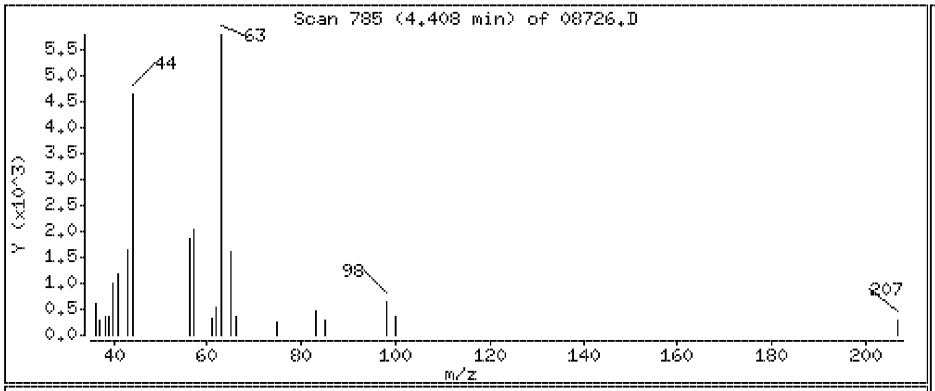
Operator: NCK

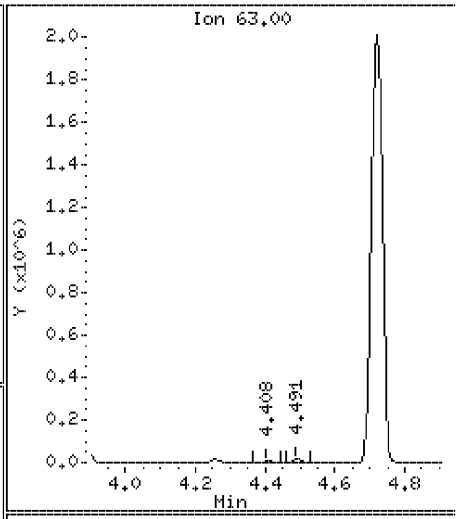
Column phase: J&W DB-5

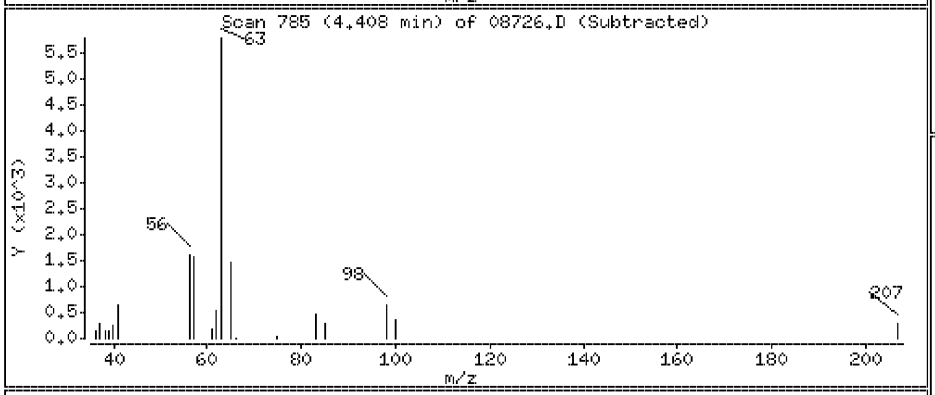
Column diameter: 0.32

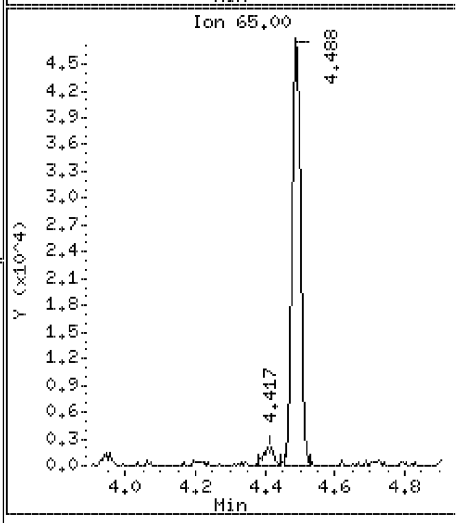
31 1,1-Dichloroethane

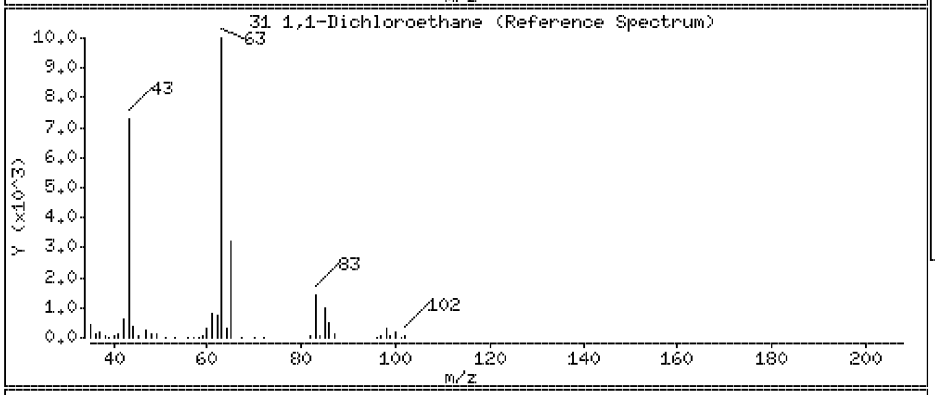
Concentration: 0.280 ppbv

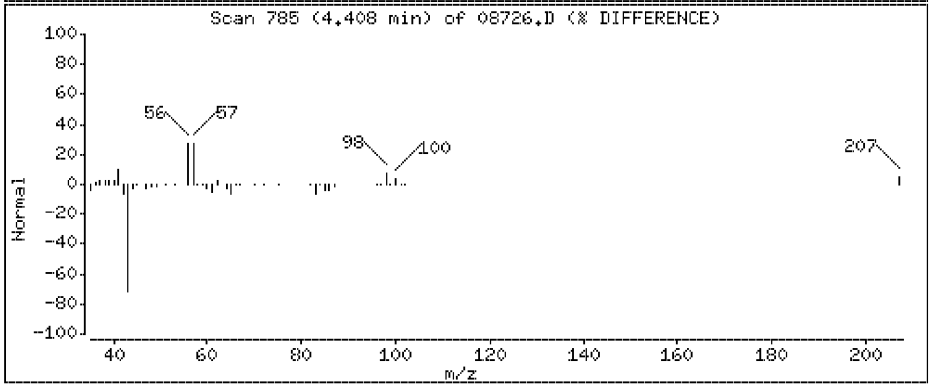












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

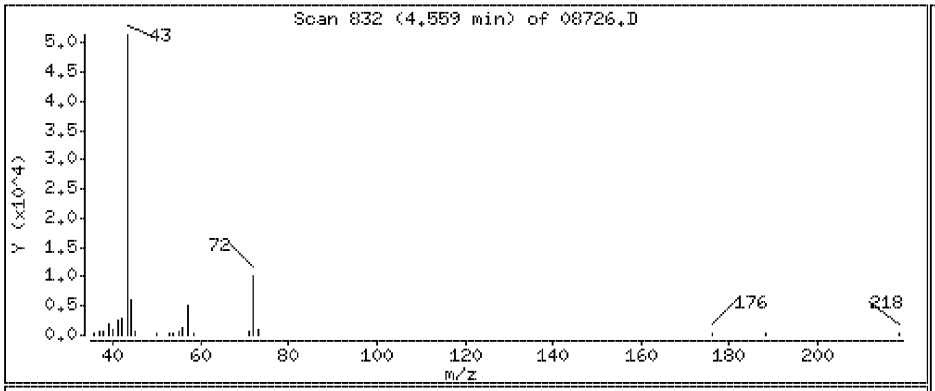
Operator: NCK

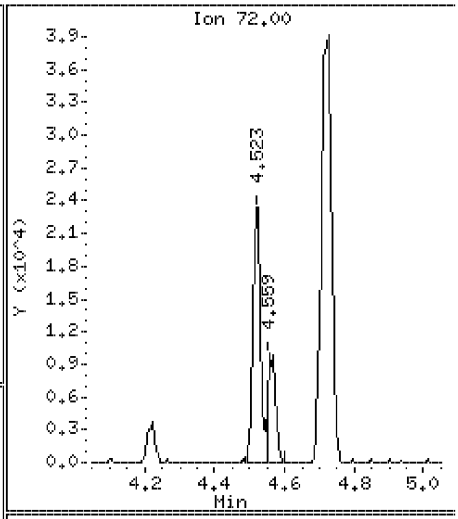
Column phase: J&W DB-5

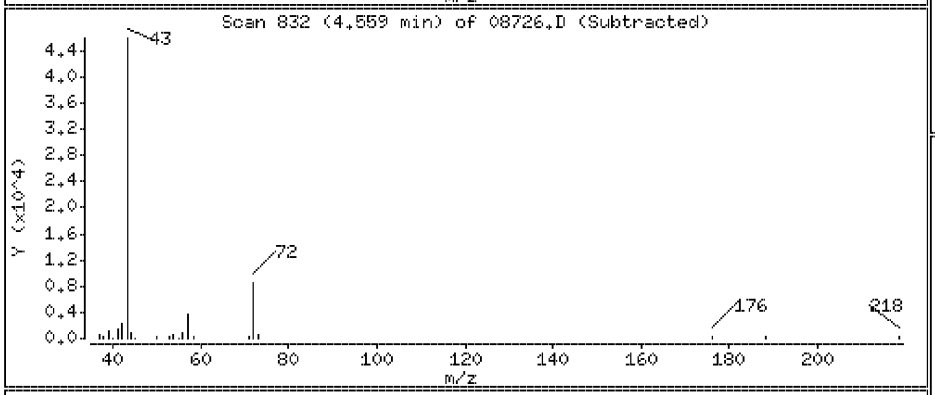
Column diameter: 0.32

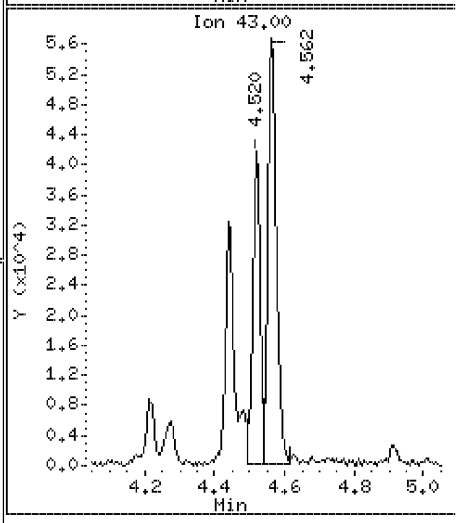
33 Methyl Ethyl Ketone

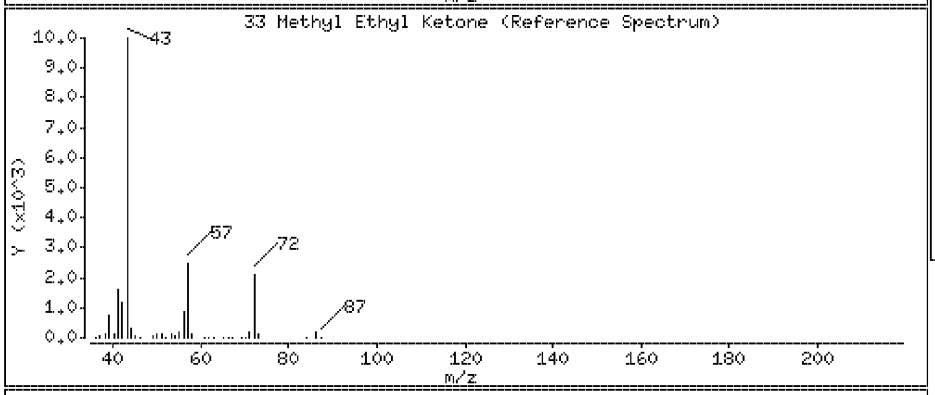
Concentration: 1.24 ppbv

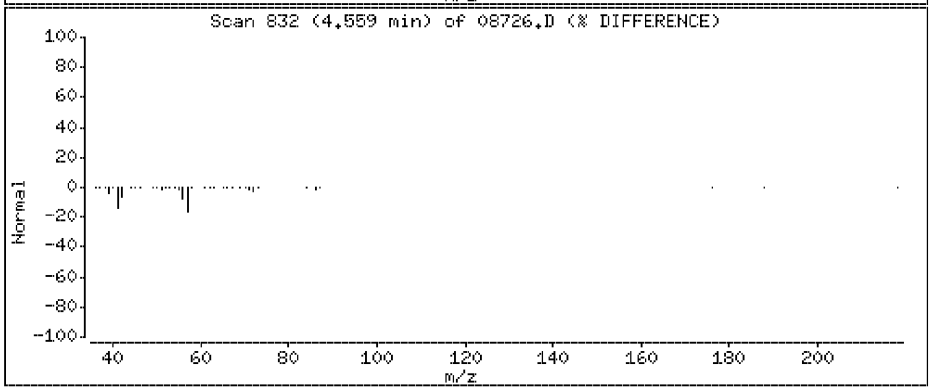












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

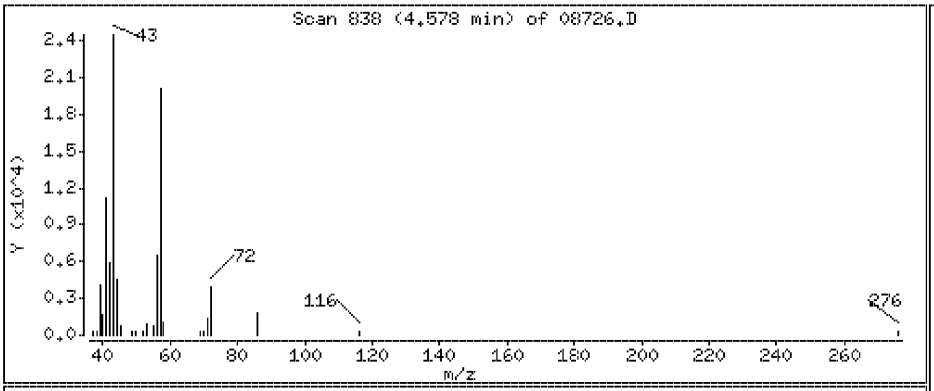
Operator: NCK

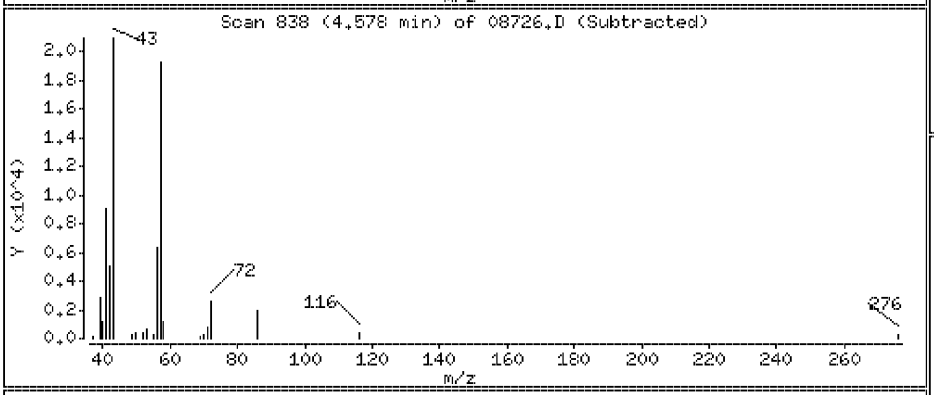
Column phase: J&W DB-5

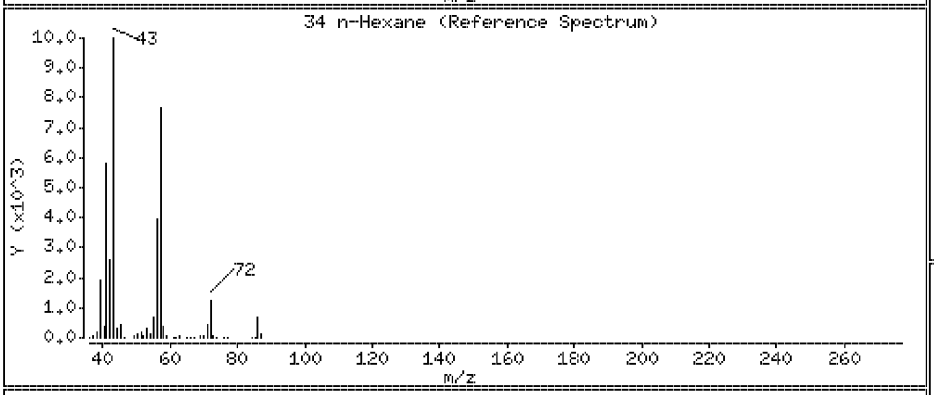
Column diameter: 0.32

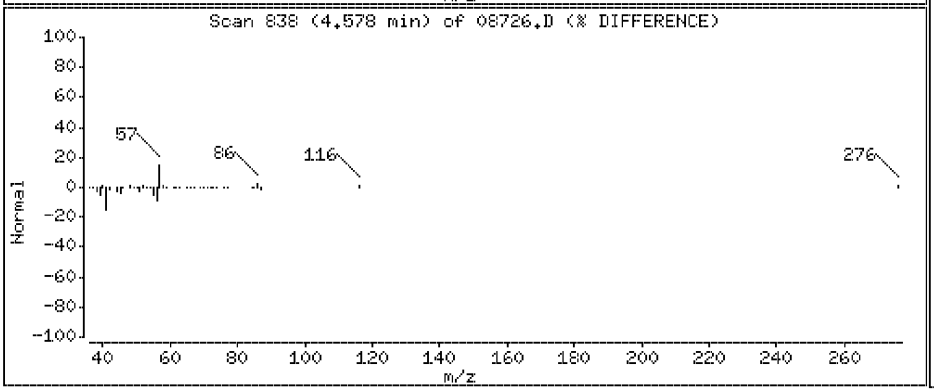
34 n-Hexane

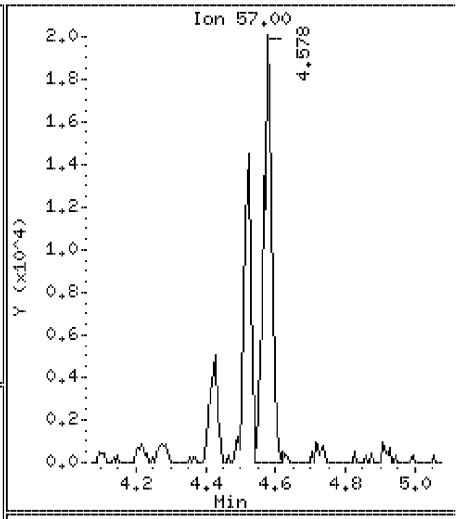
Concentration: 0.728 ppbv

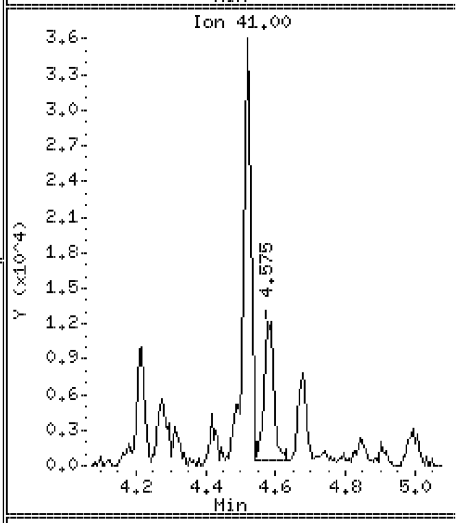


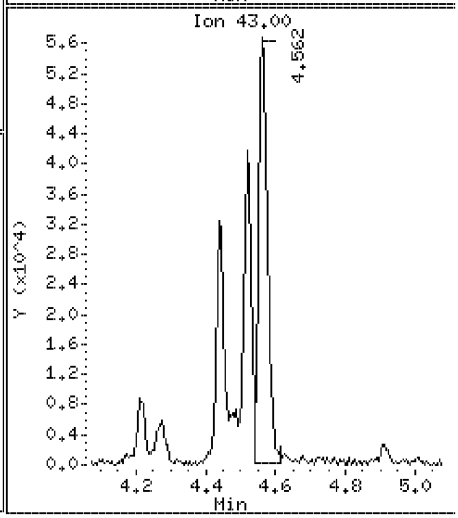












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

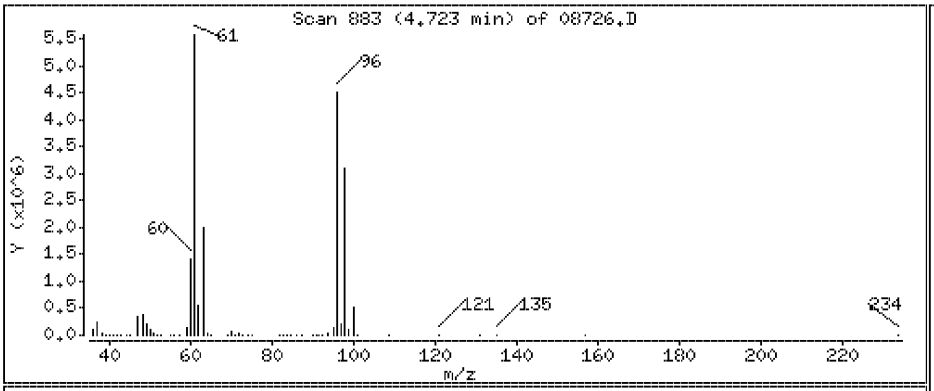
Operator: NCK

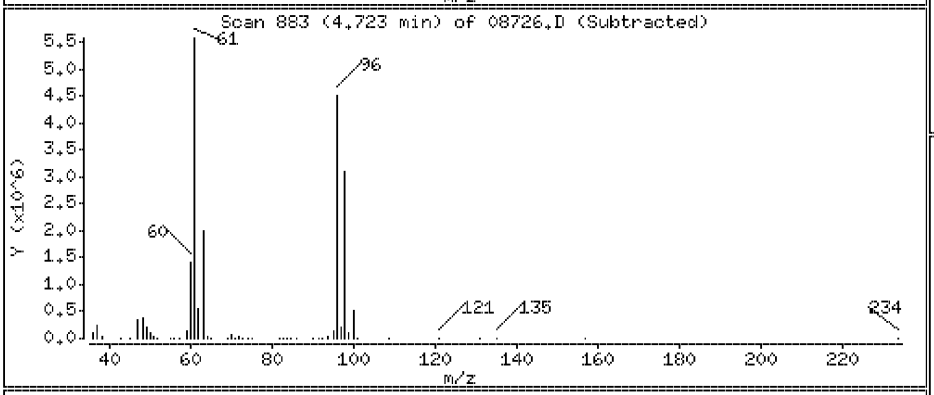
Column phase: J&W DB-5

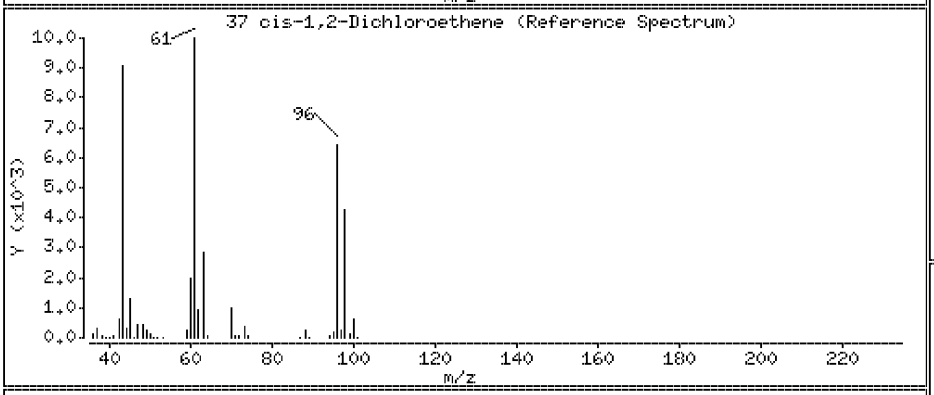
Column diameter: 0.32

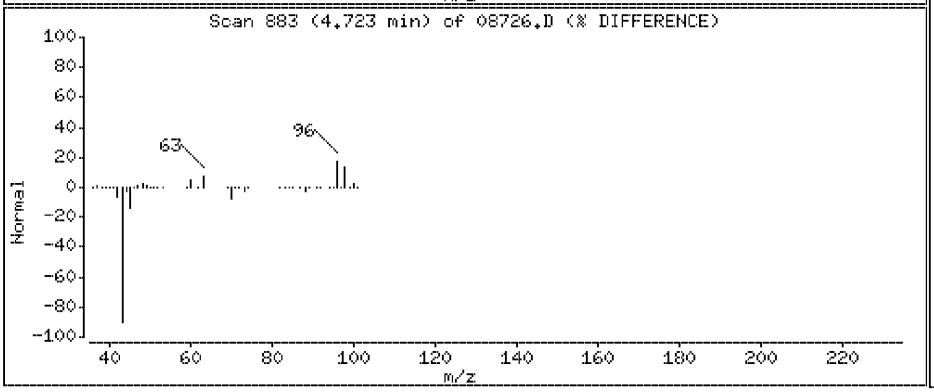
37 cis-1,2-Dichloroethene

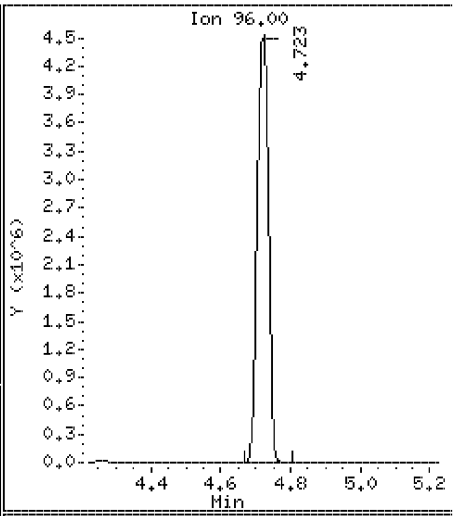
Concentration: 415 ppbv

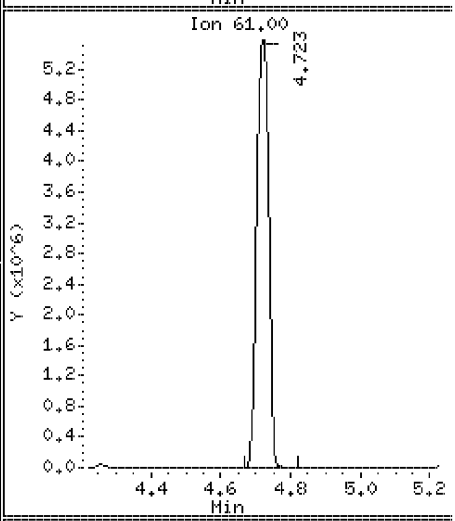


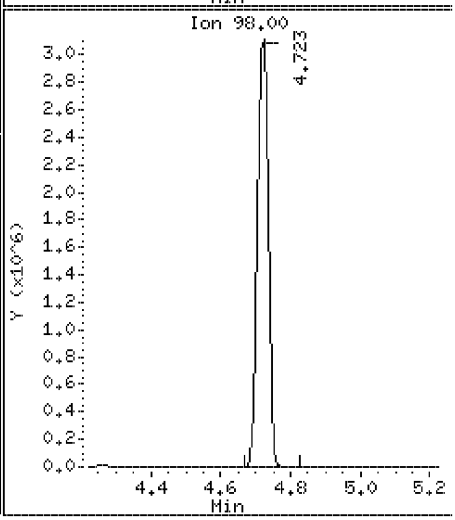












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

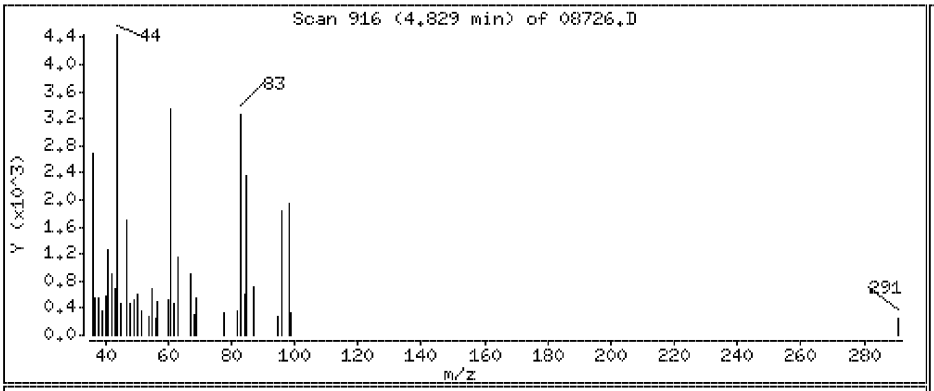
Operator: NCK

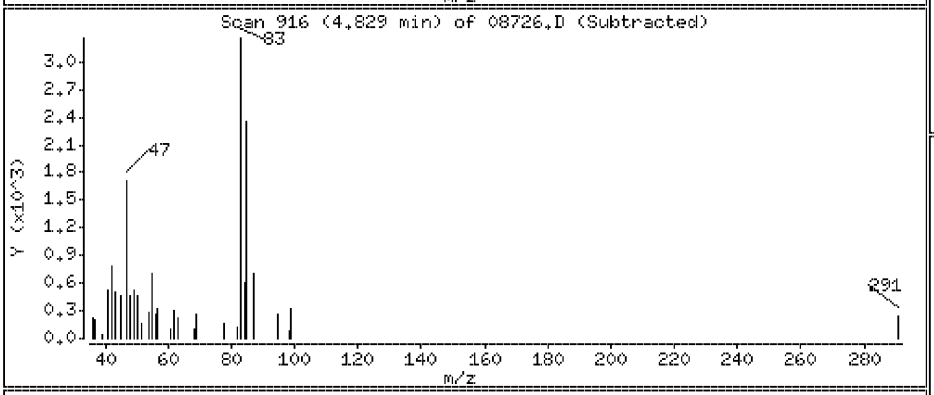
Column phase: J&W DB-5

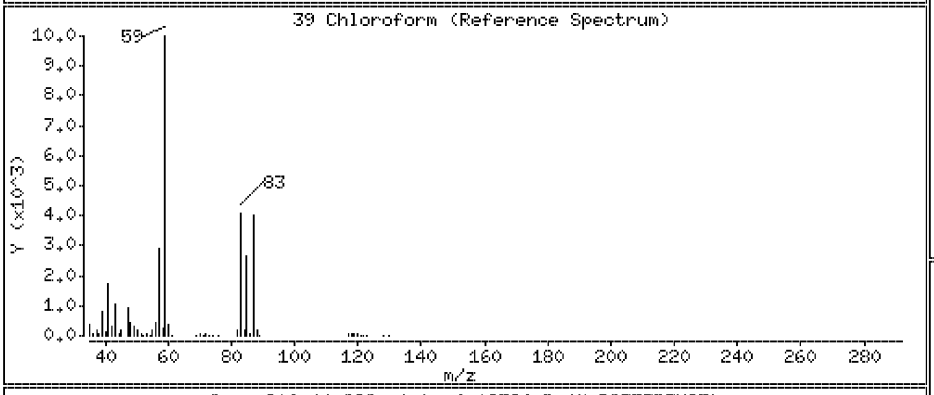
Column diameter: 0.32

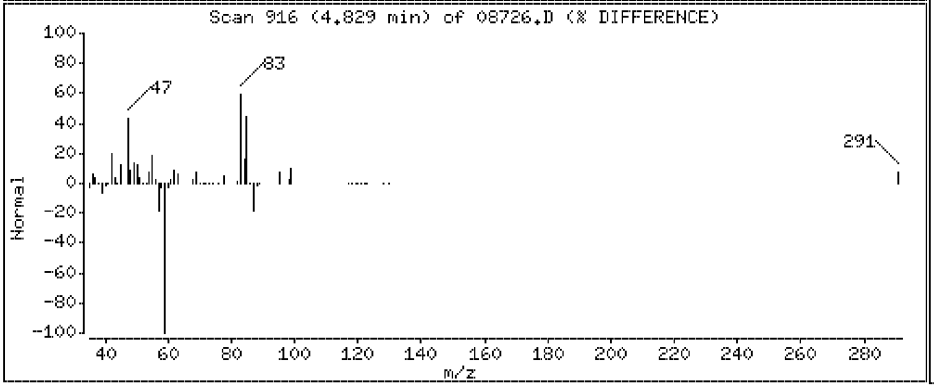
39 Chloroform

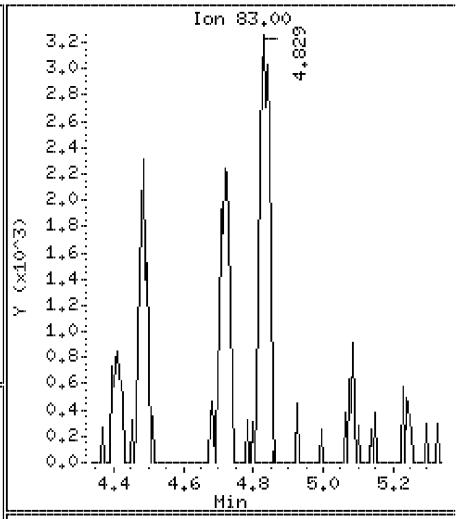
Concentration: 0.129 ppbv

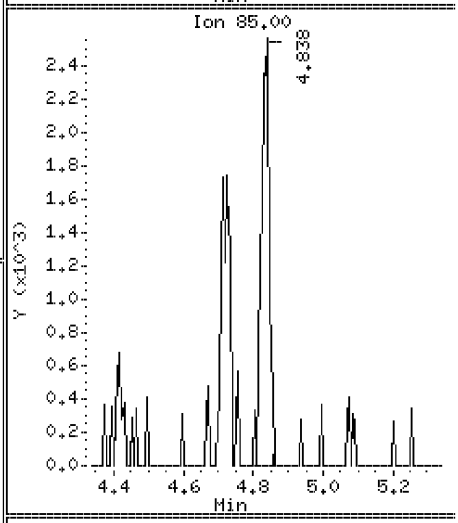


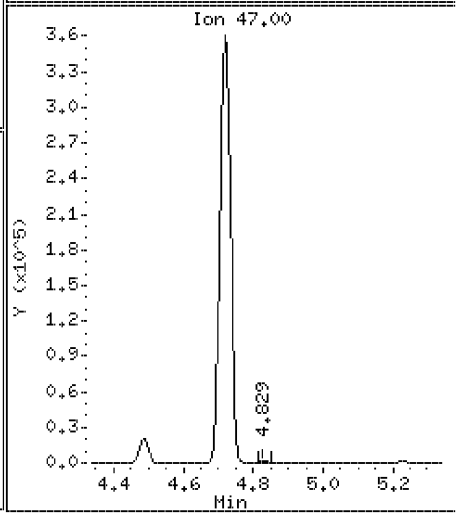












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

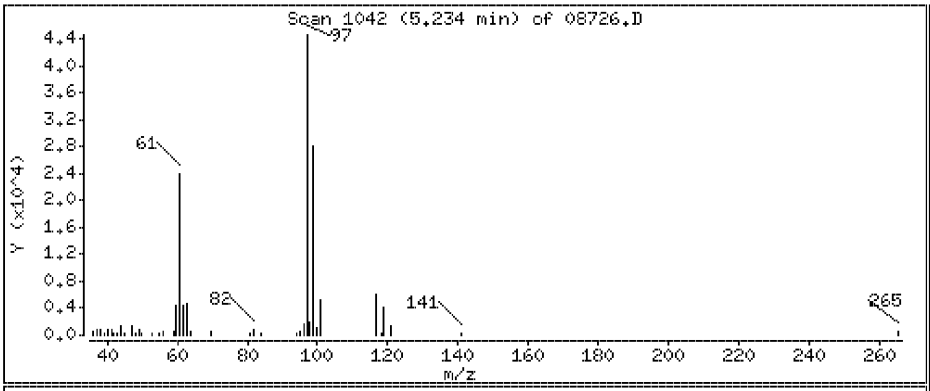
Operator: NCK

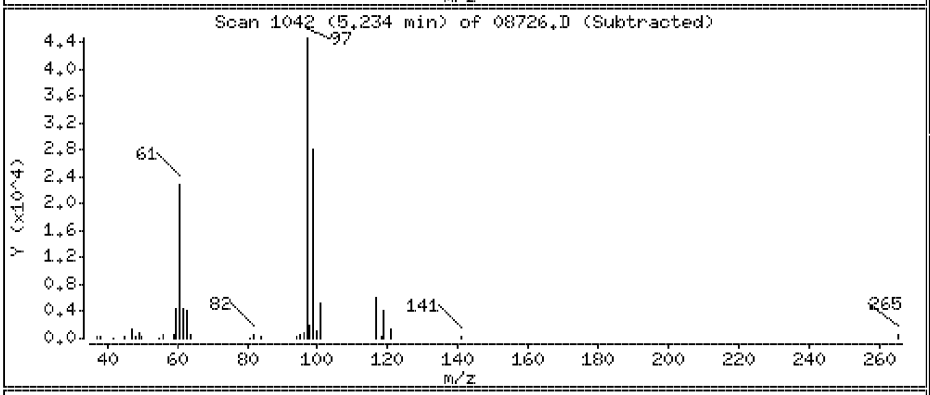
Column phase: J&W DB-5

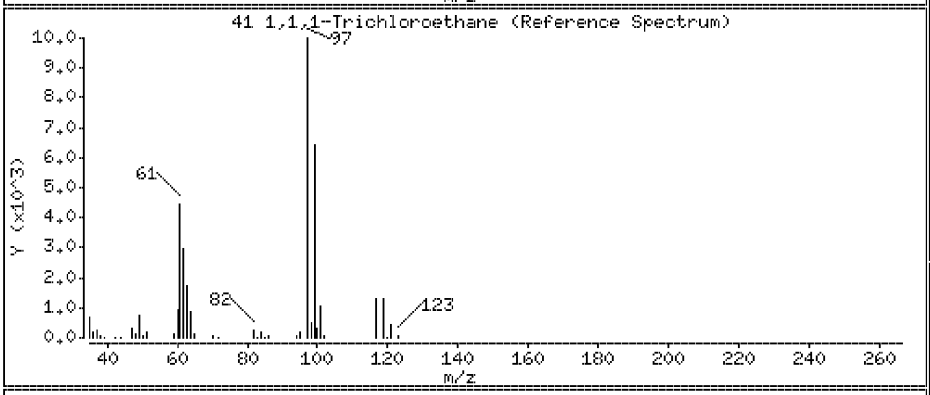
Column diameter: 0.32

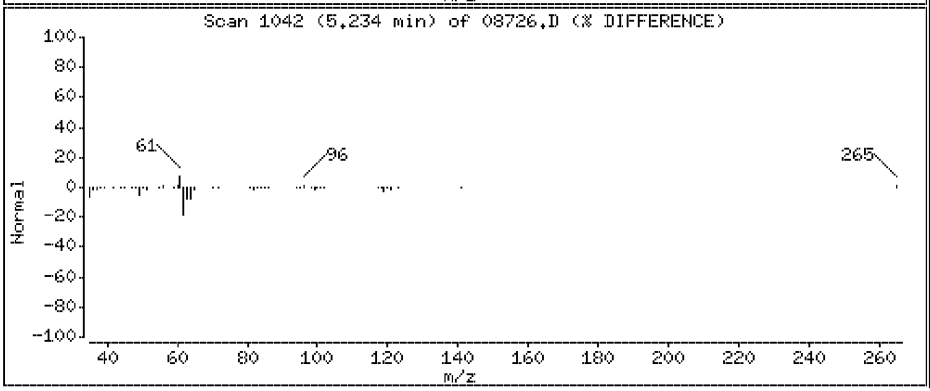
41 1,1,1-Trichloroethane

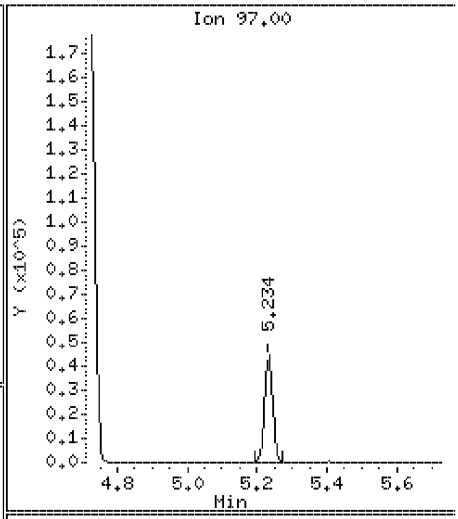
Concentration: 1.11 ppbv

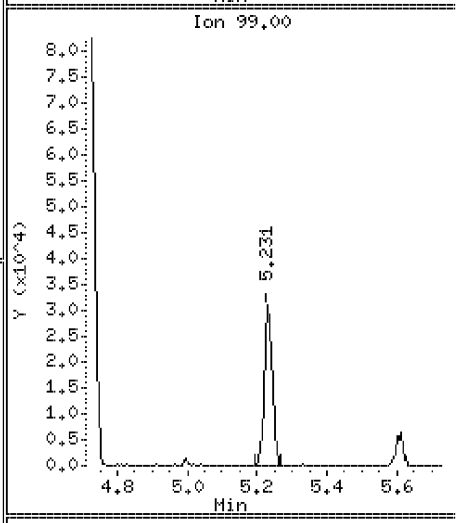


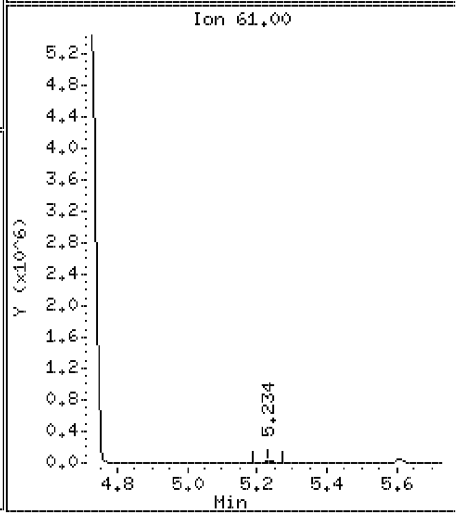












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

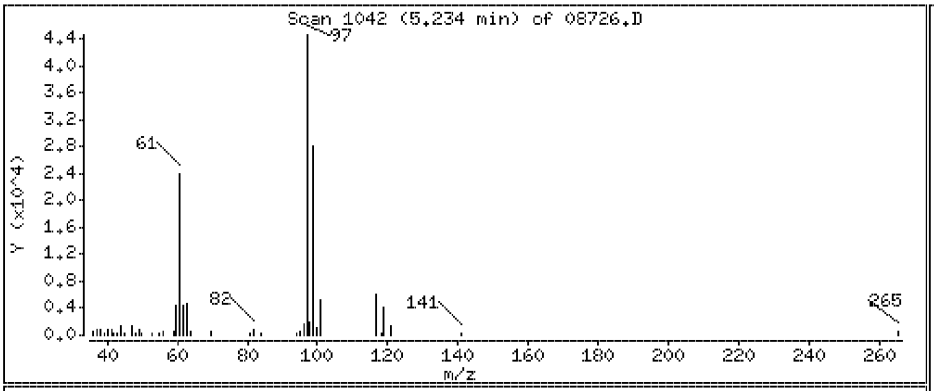
Operator: NCK

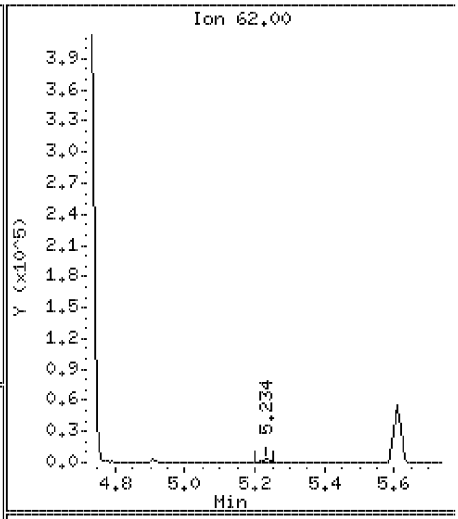
Column phase: J&W DB-5

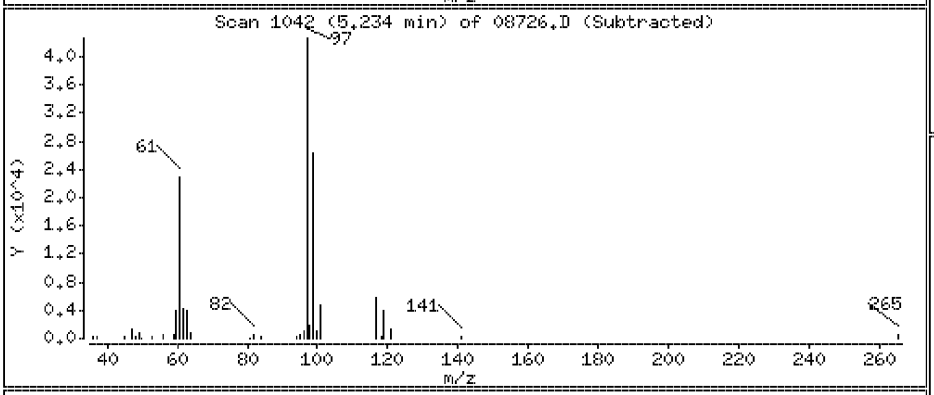
Column diameter: 0.32

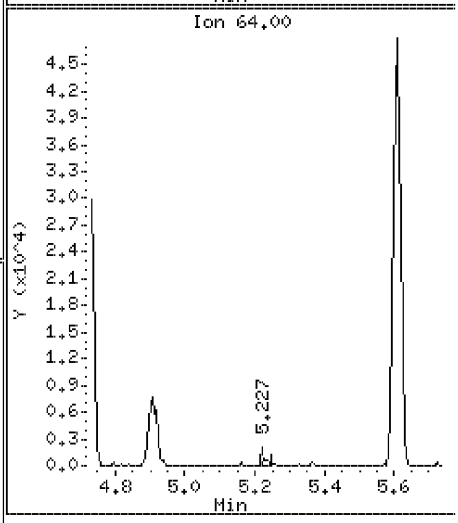
42 1,2-Dichloroethane

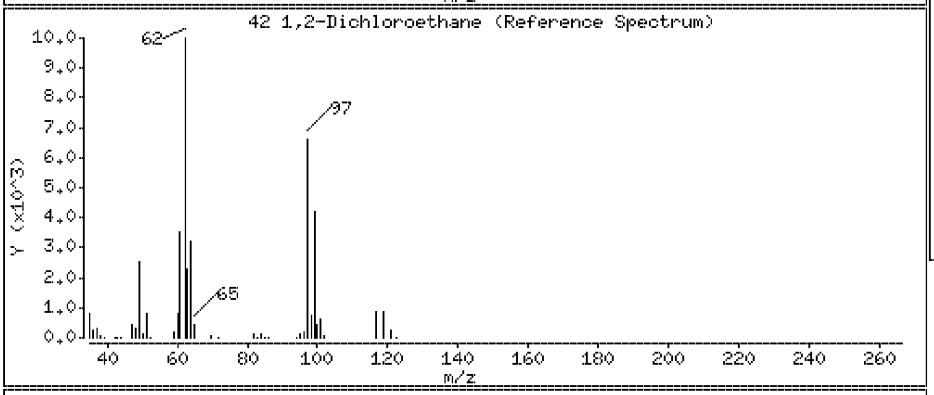
Concentration: 0.125 ppbv

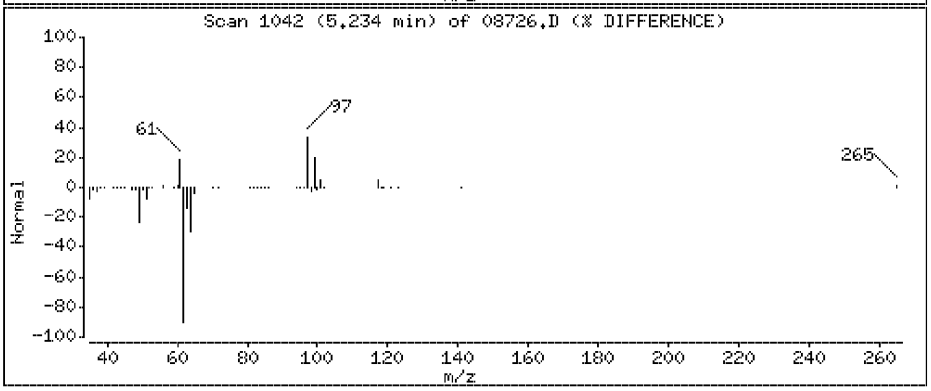












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

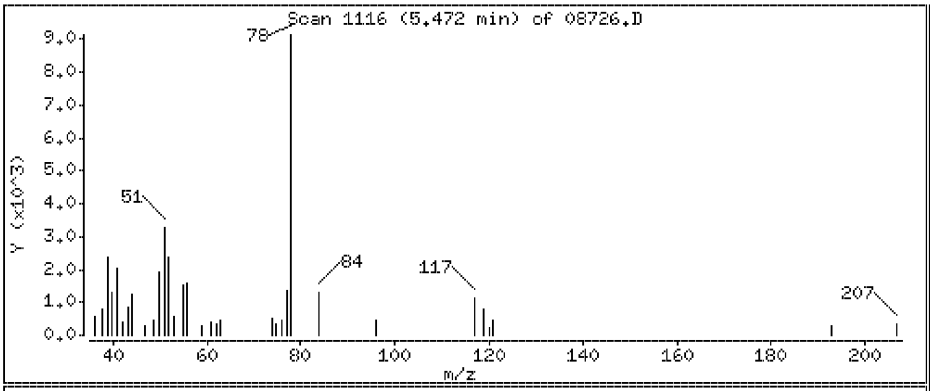
Operator: NCK

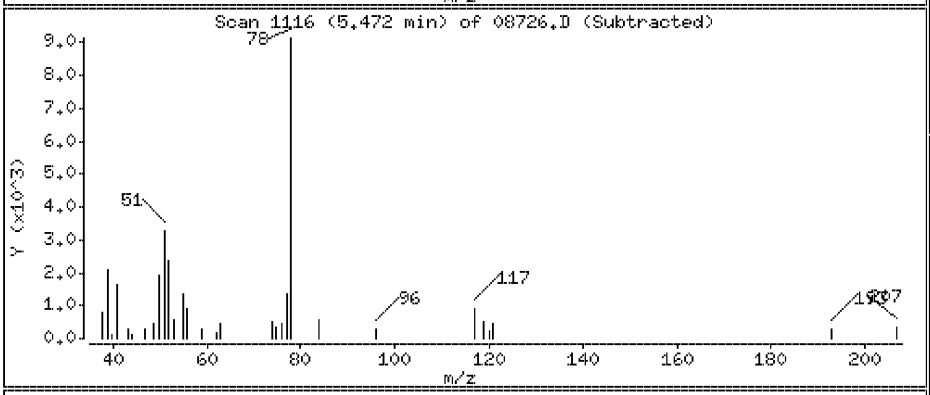
Column phase: J&W DB-5

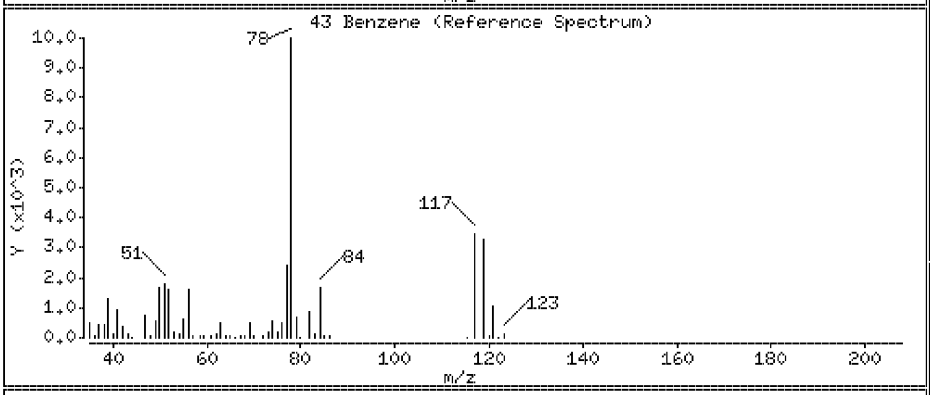
Column diameter: 0.32

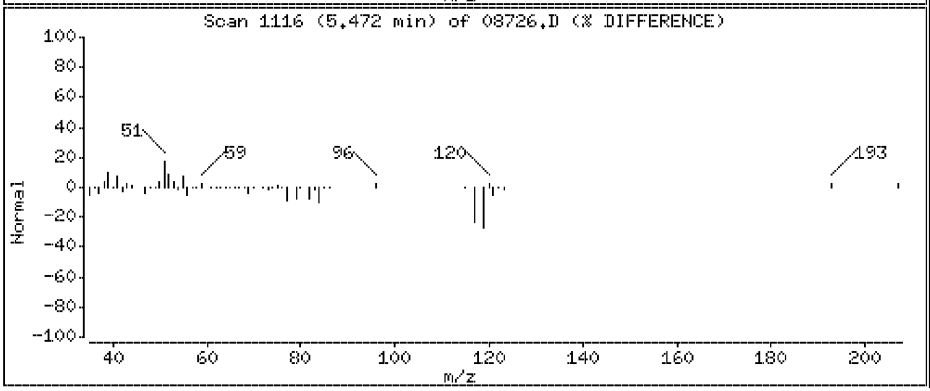
43 Benzene

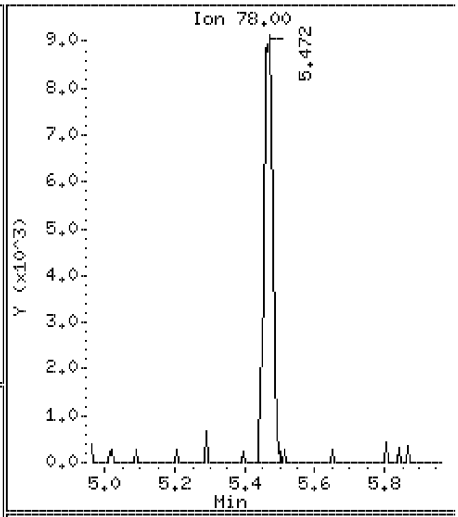
Concentration: 0.179 ppbv

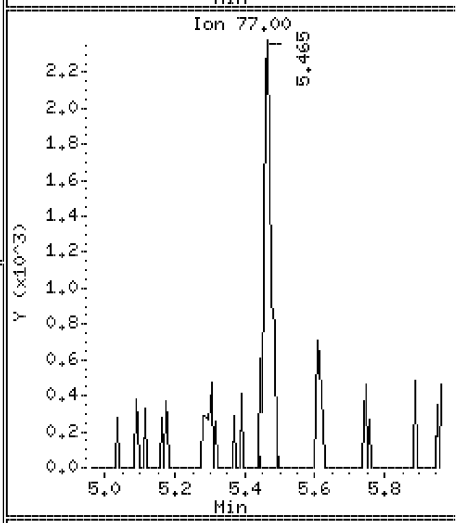


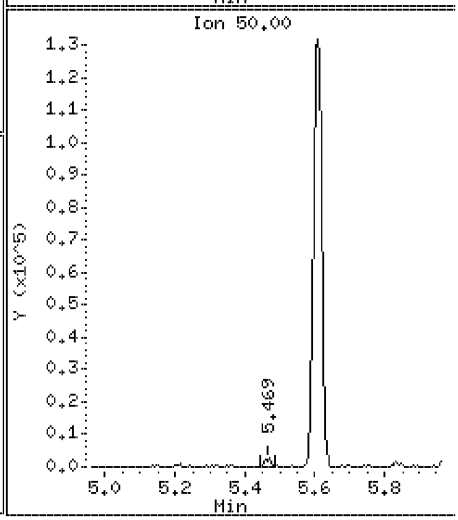












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

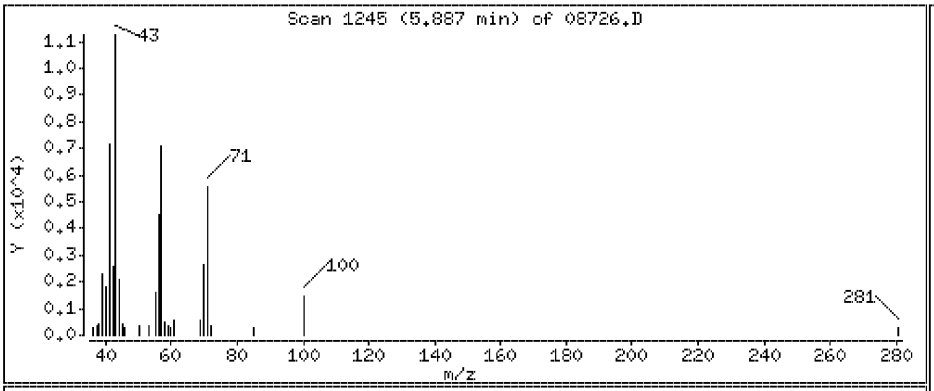
Operator: NCK

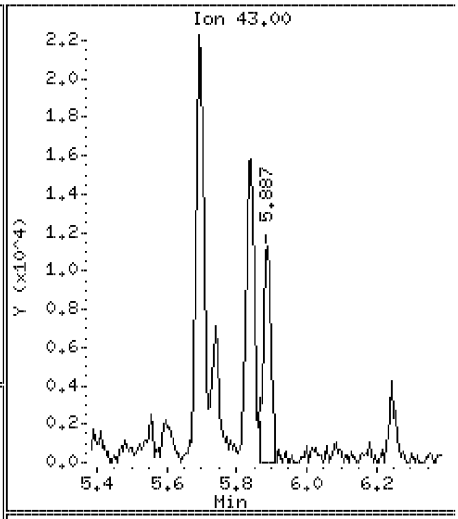
Column phase: J&W DB-5

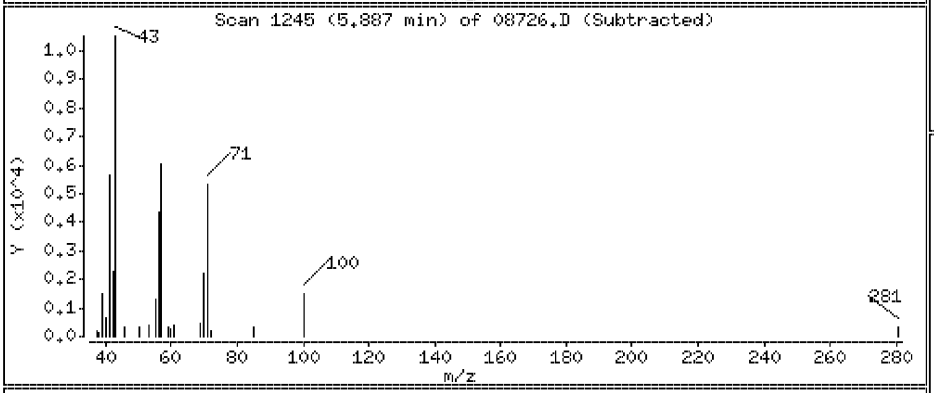
Column diameter: 0.32

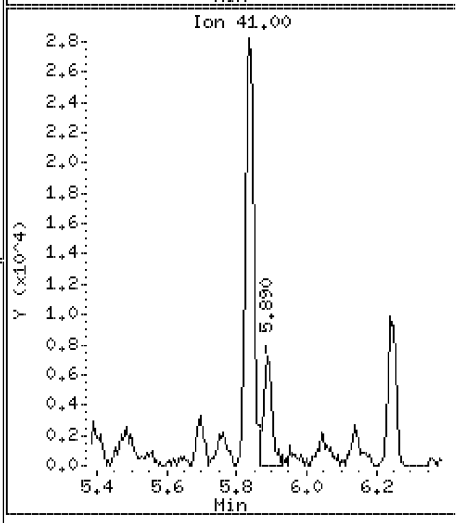
49 Heptane

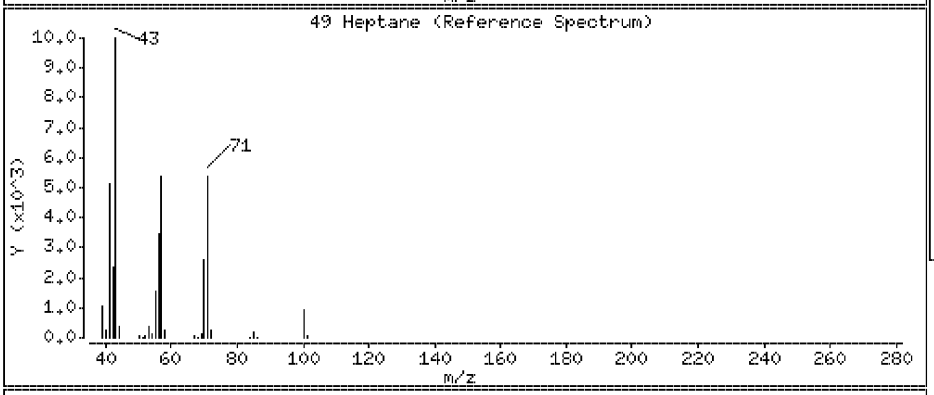
Concentration: 0.332 ppbv

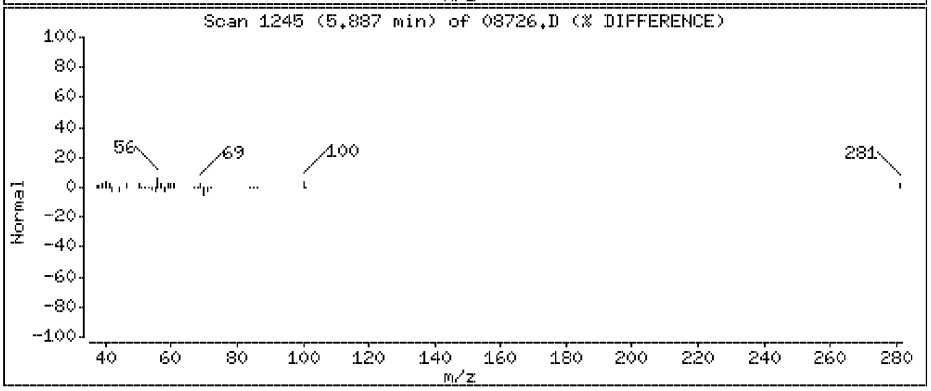












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

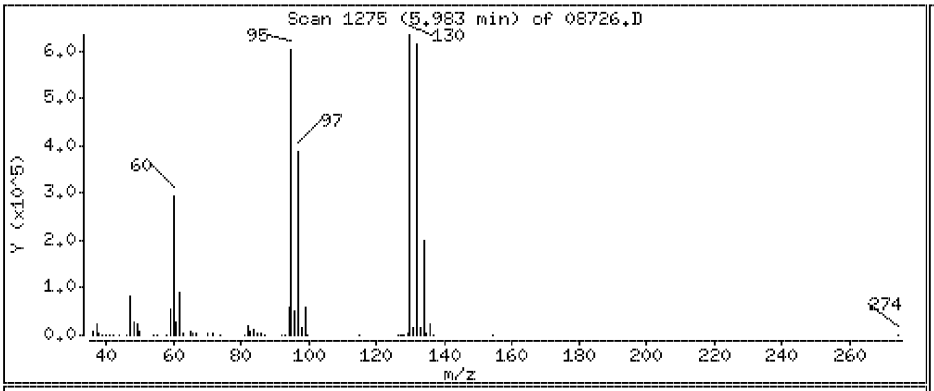
Operator: NCK

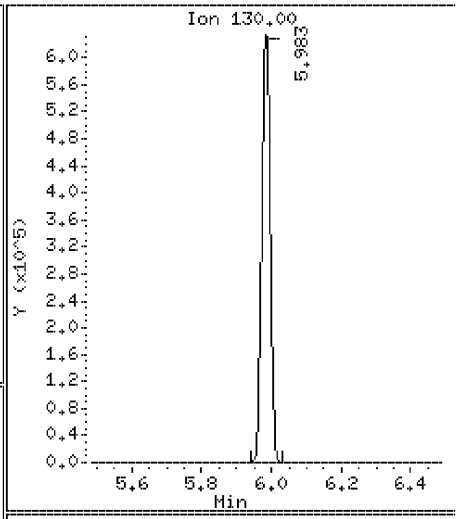
Column phase: J&W DB-5

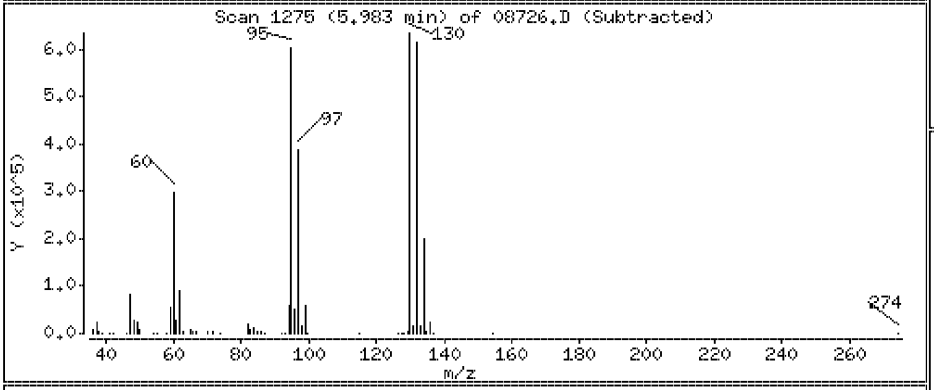
Column diameter: 0.32

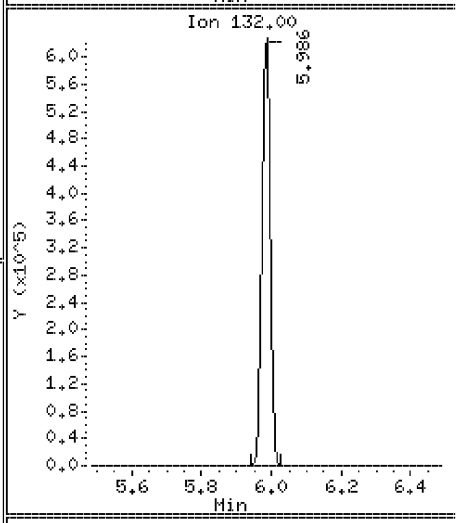
51 Trichloroethene

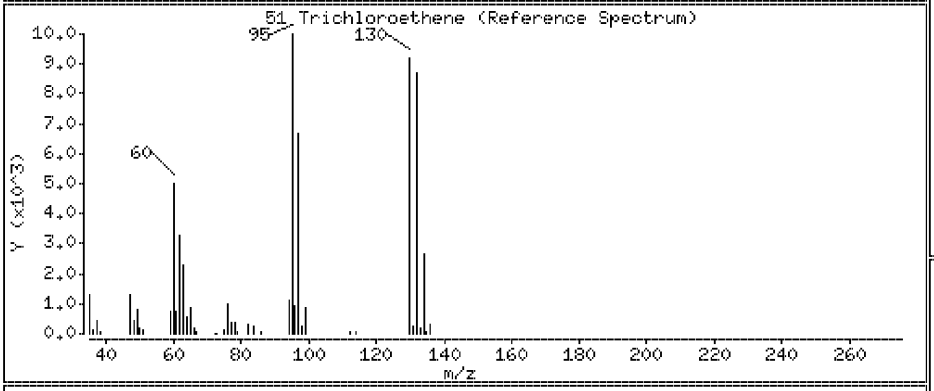
Concentration: 23.3 ppbv

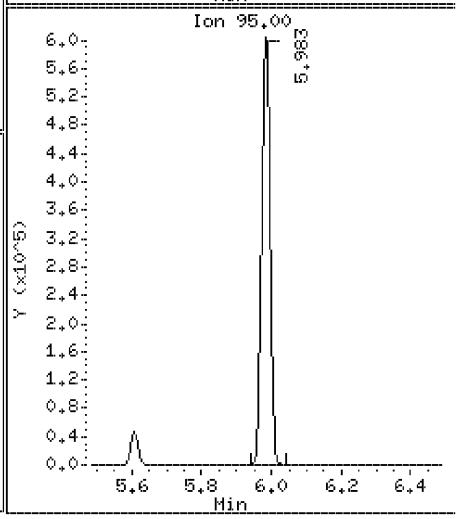


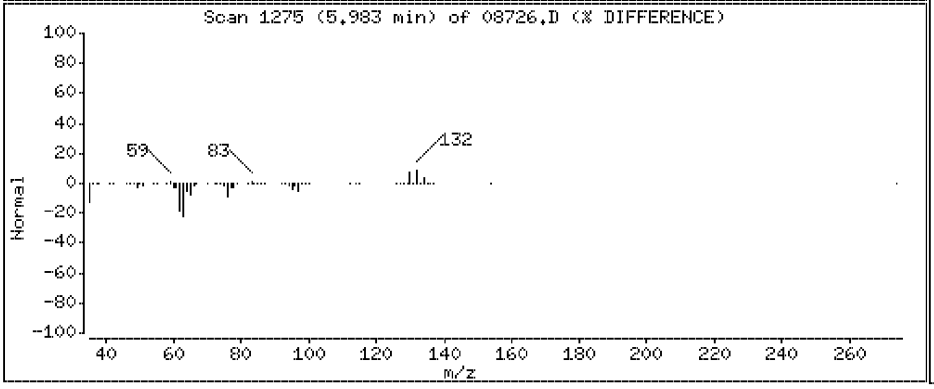












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

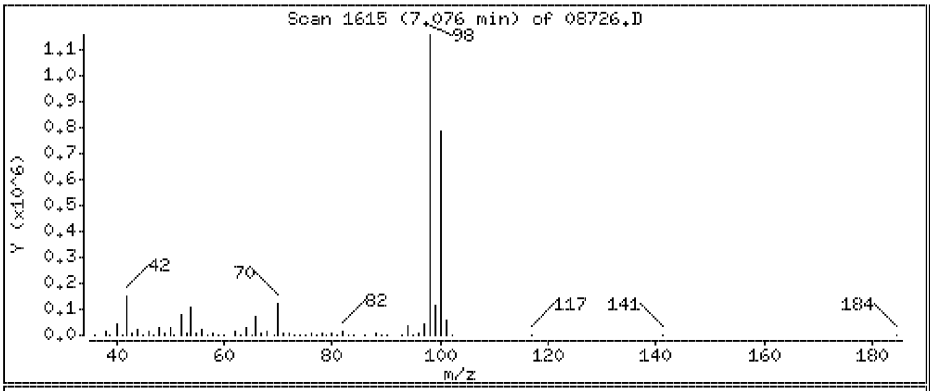
Operator: NCK

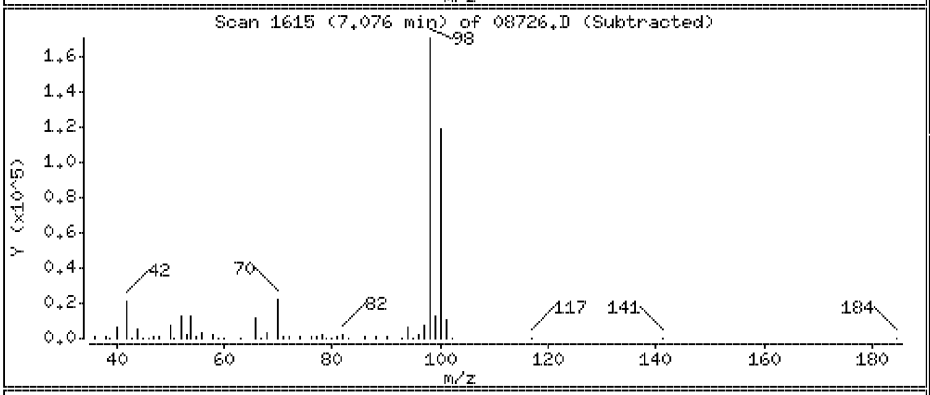
Column phase: J&W DB-5

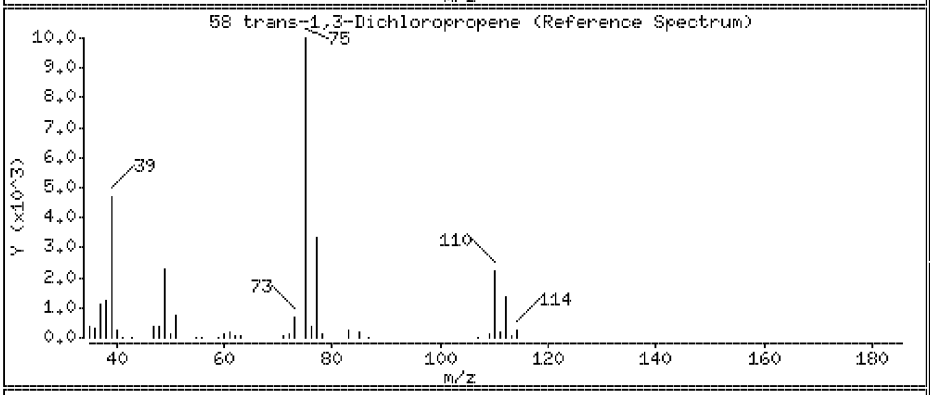
Column diameter: 0.32

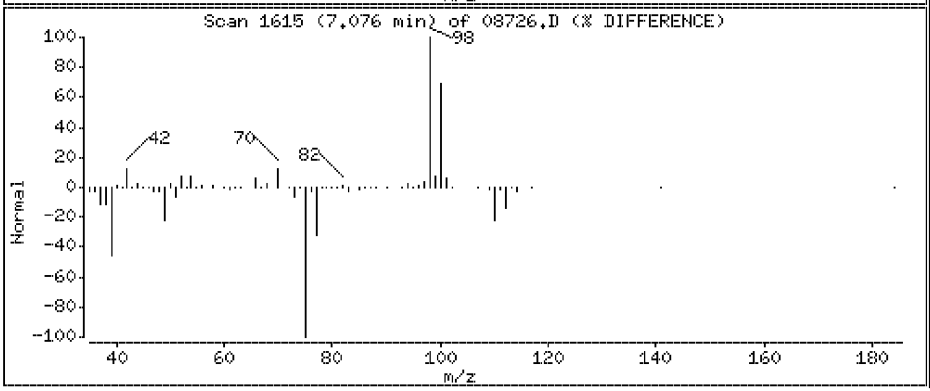
58 trans-1,3-Dichloropropene

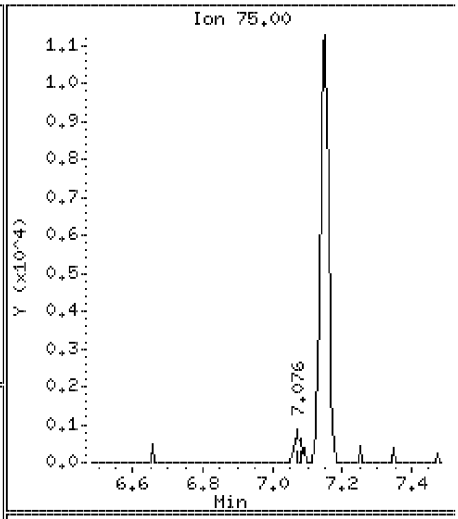
Concentration: 0.227 ppbv

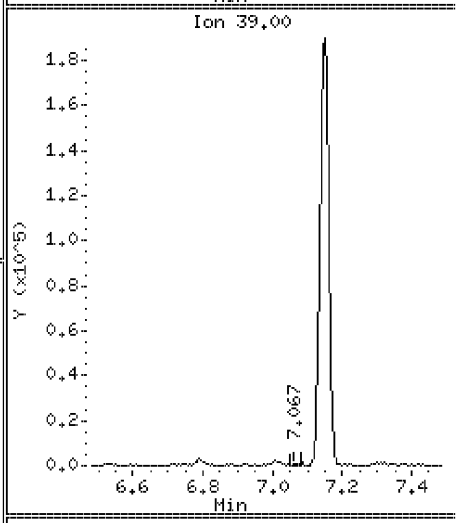


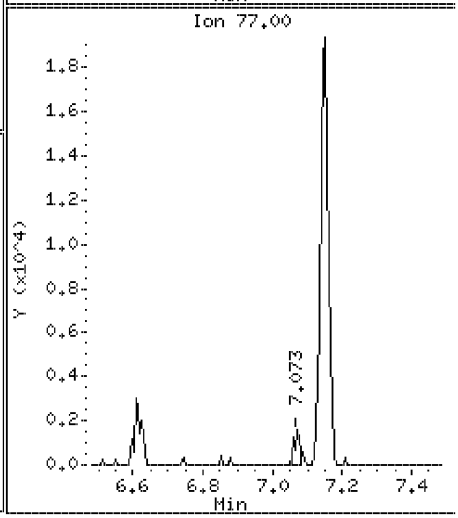












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

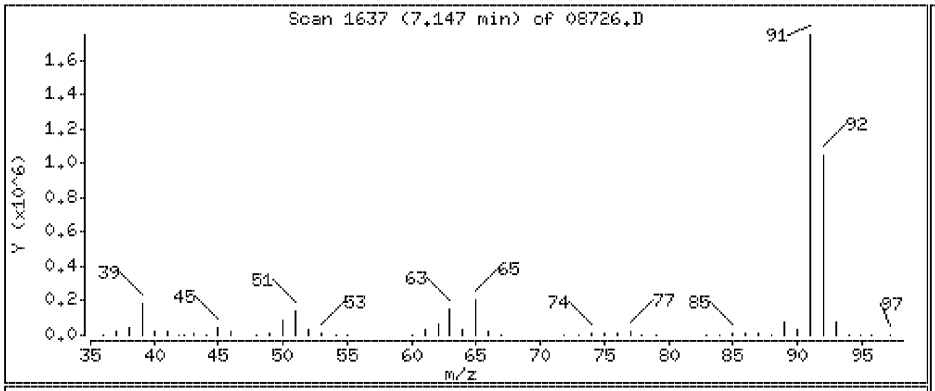
Operator: NCK

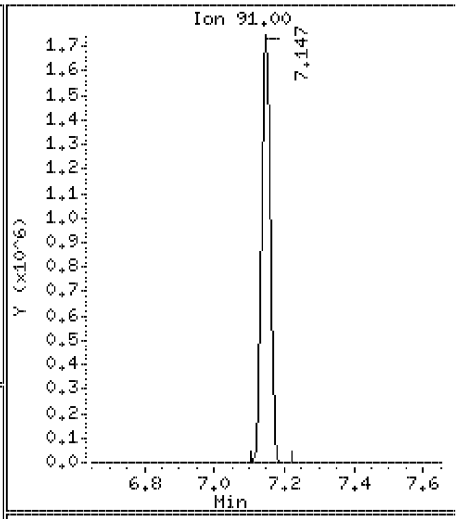
Column phase: J&W DB-5

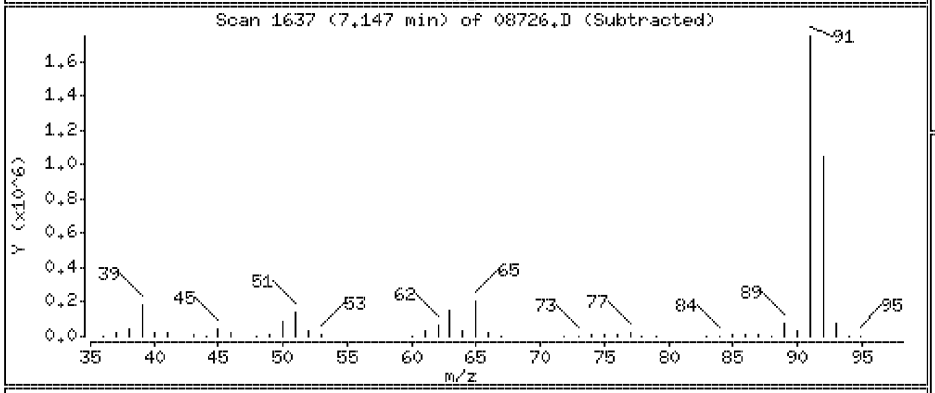
Column diameter: 0.32

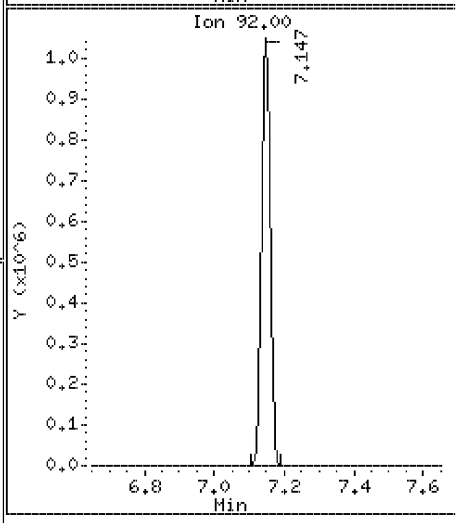
61 Toluene

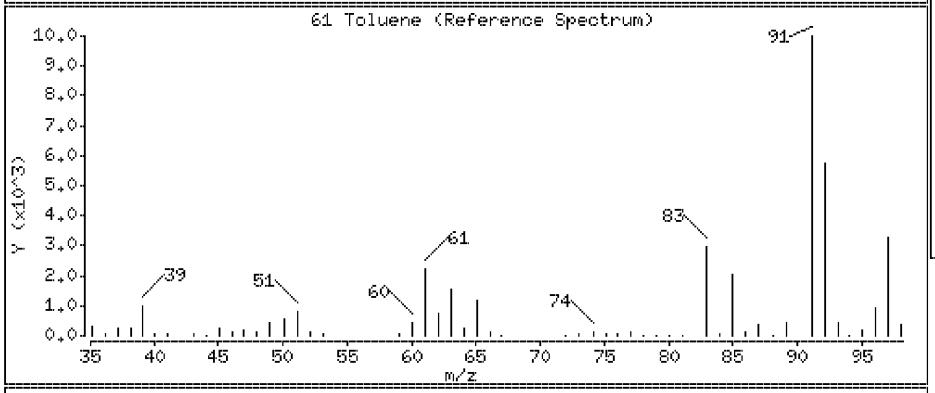
Concentration: 29.1 ppbv

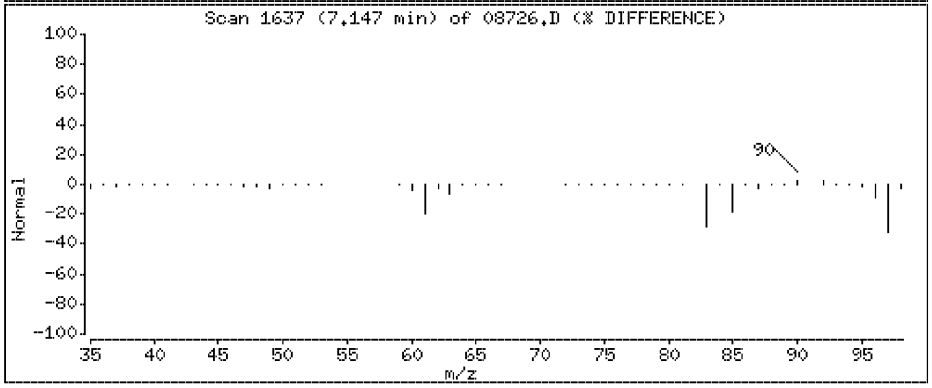












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

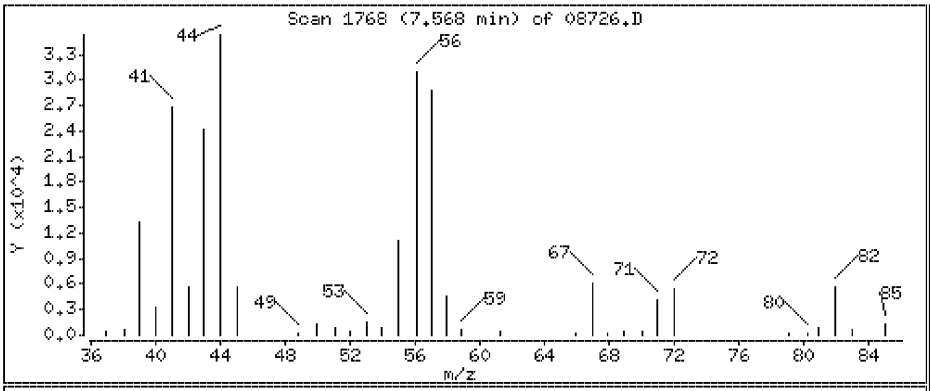
Operator: NCK

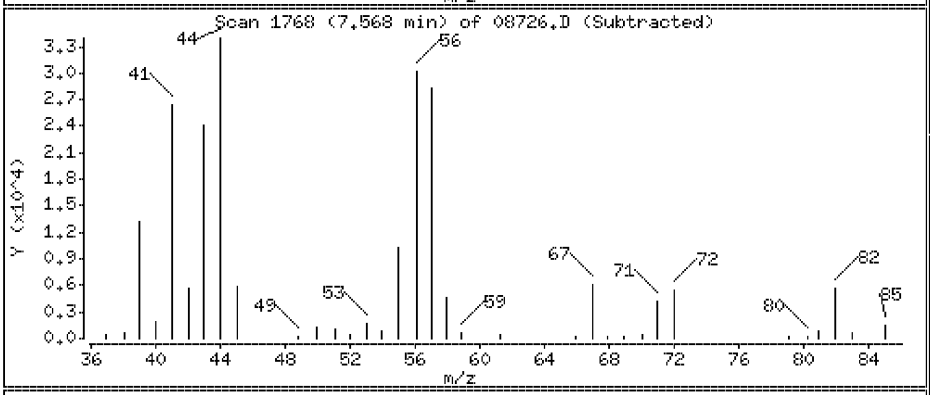
Column phase: J&W DB-5

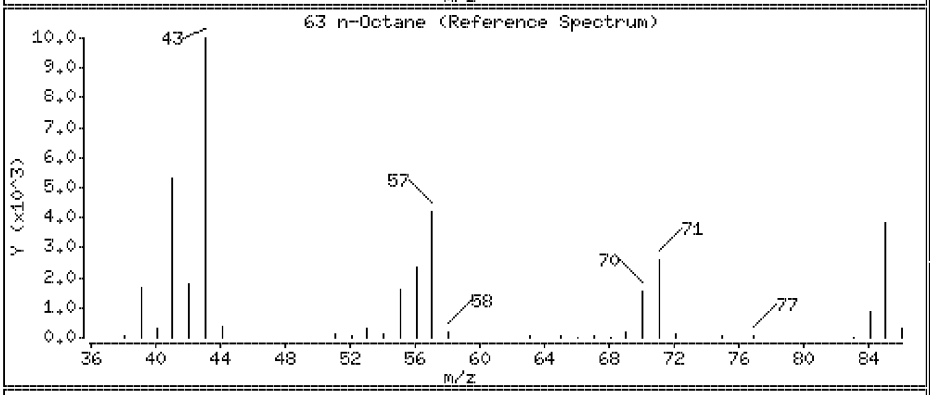
Column diameter: 0.32

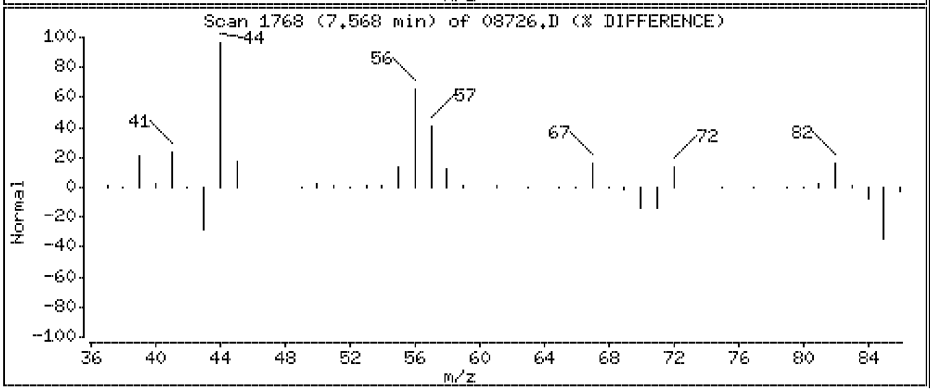
63 n-Octane

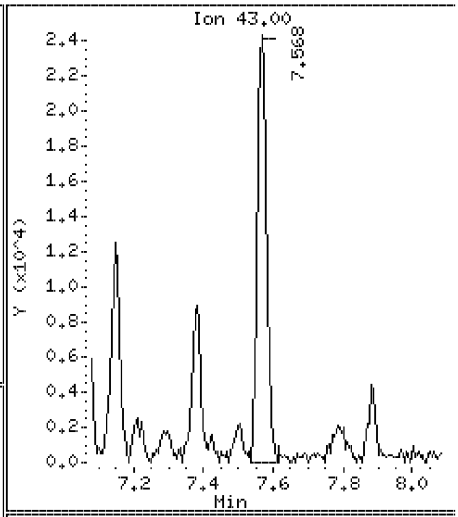
Concentration: 0.642 ppbv

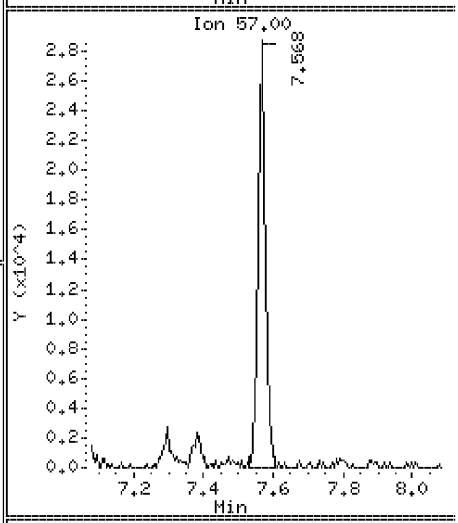


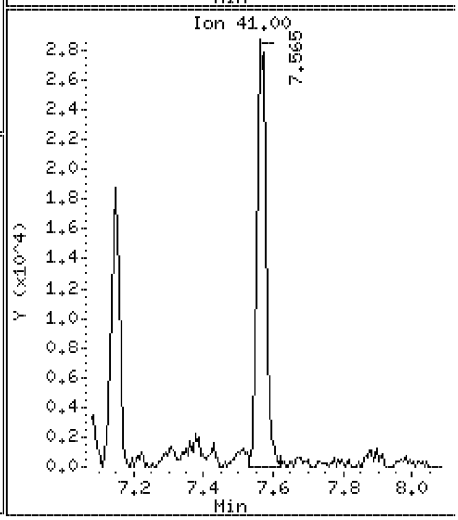












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

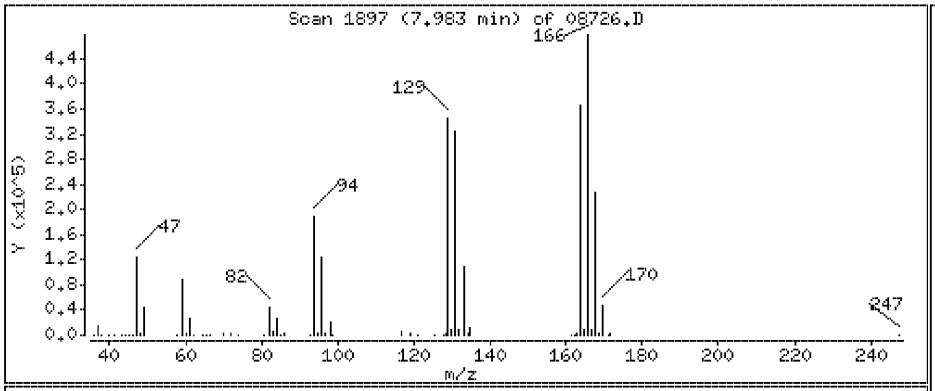
Operator: NCK

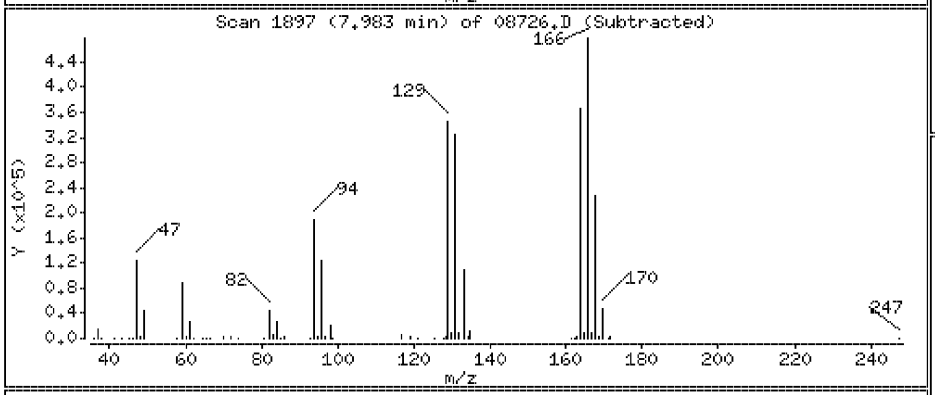
Column phase: J&W DB-5

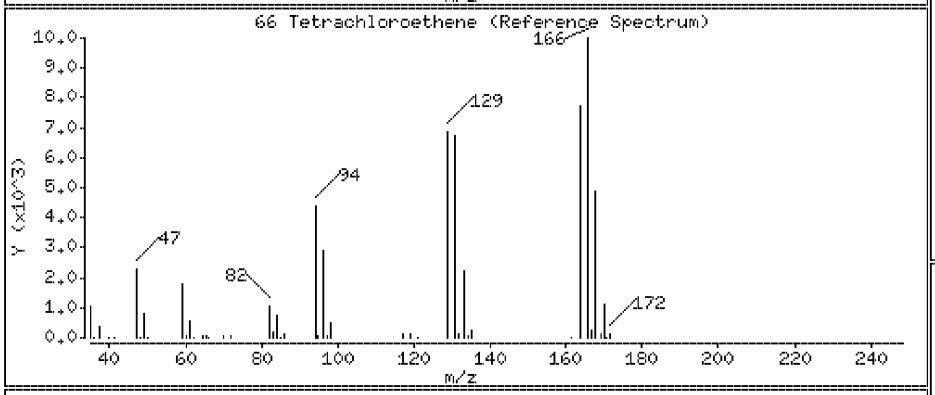
Column diameter: 0.32

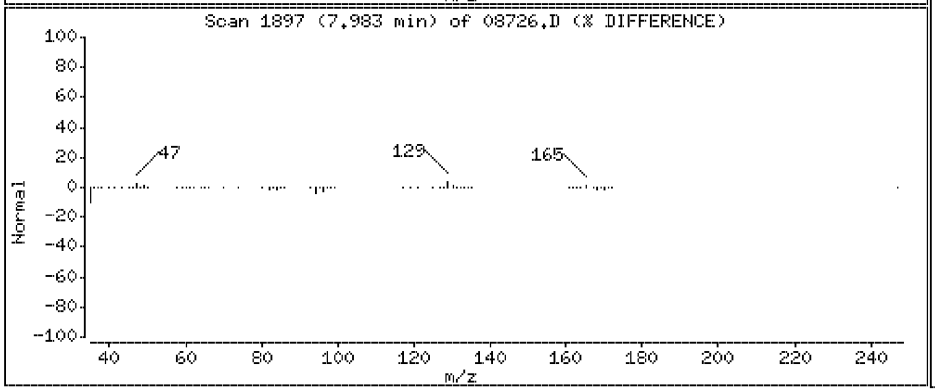
66 Tetrachloroethene

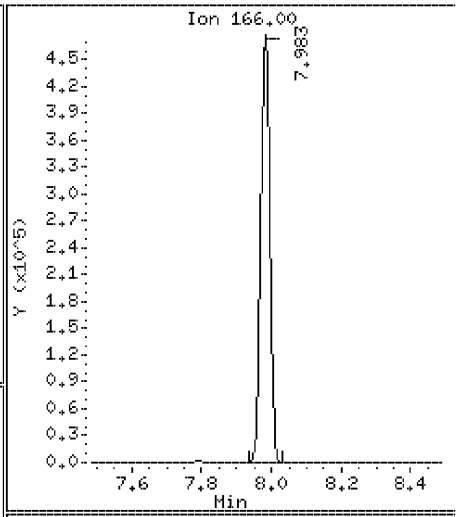
Concentration: 14.4 ppbv

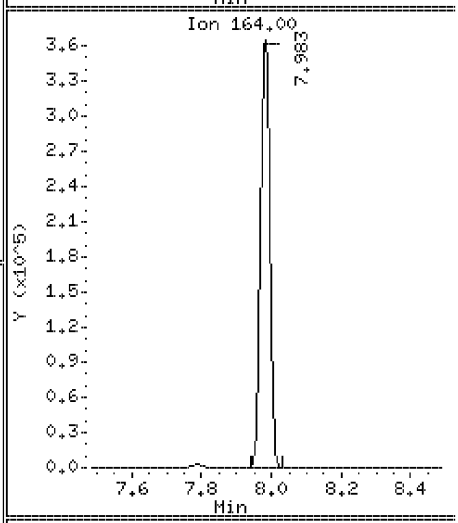


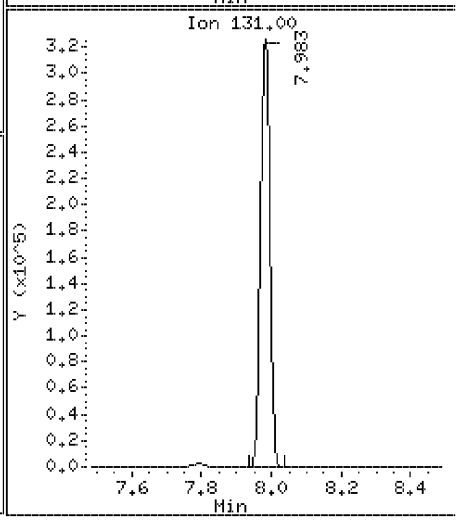












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

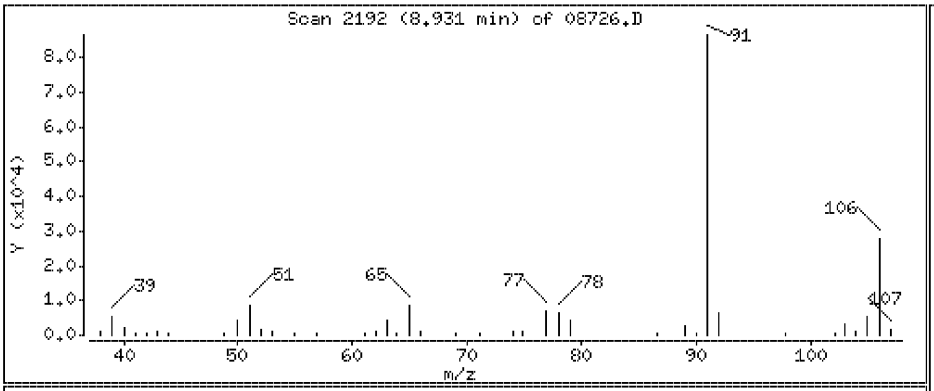
Operator: NCK

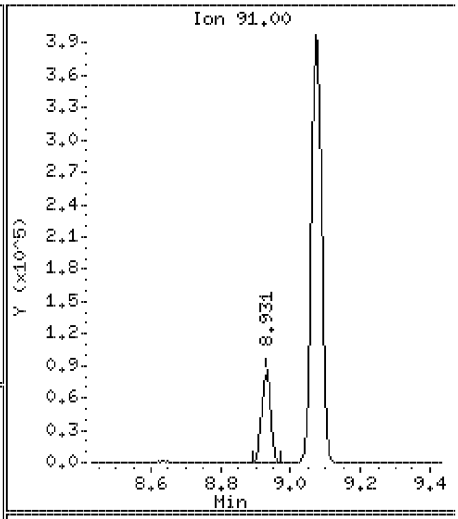
Column phase: J&W DB-5

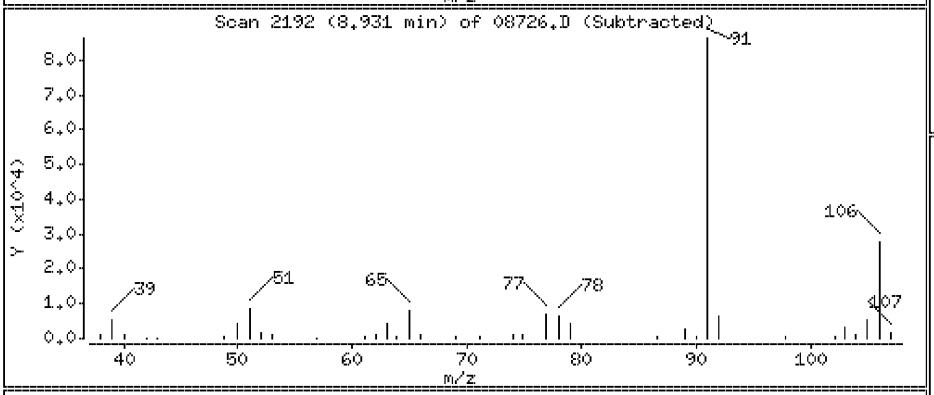
Column diameter: 0.32

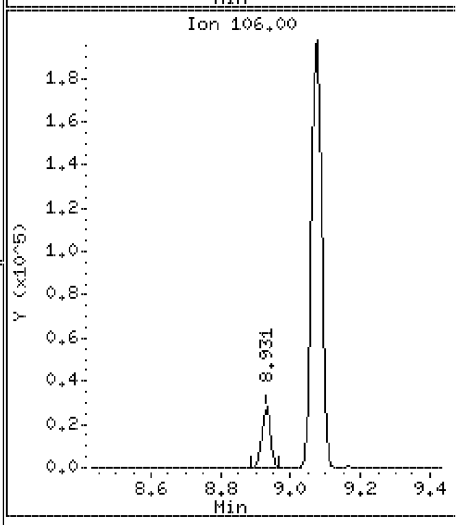
69 Ethyl Benzene

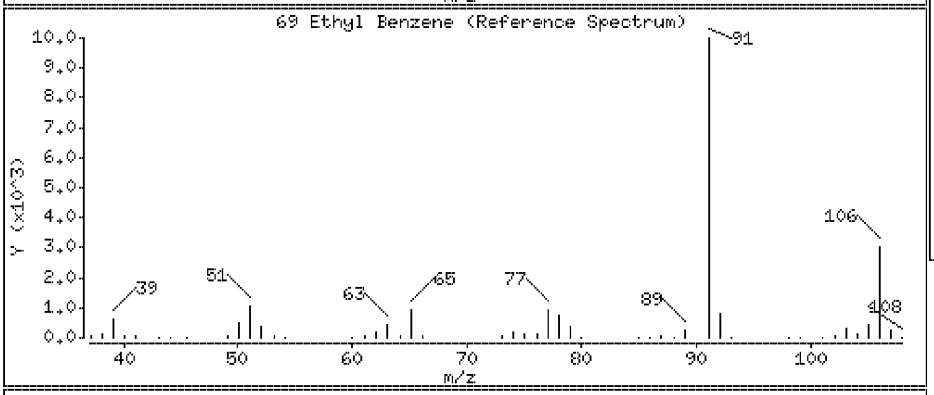
Concentration: 1.13 ppbv

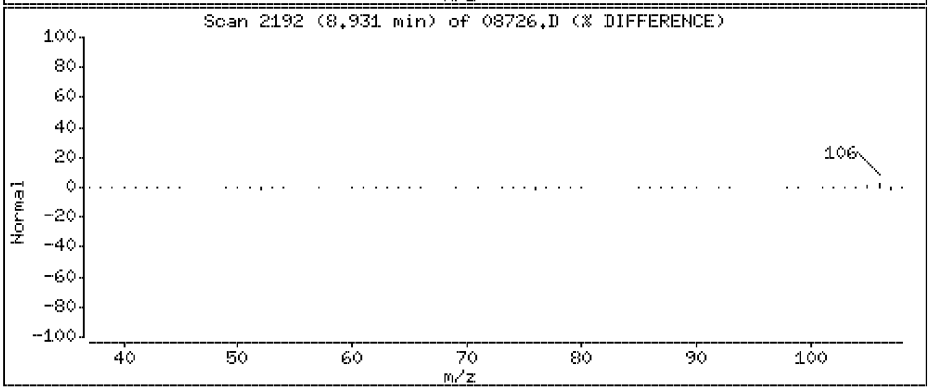












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

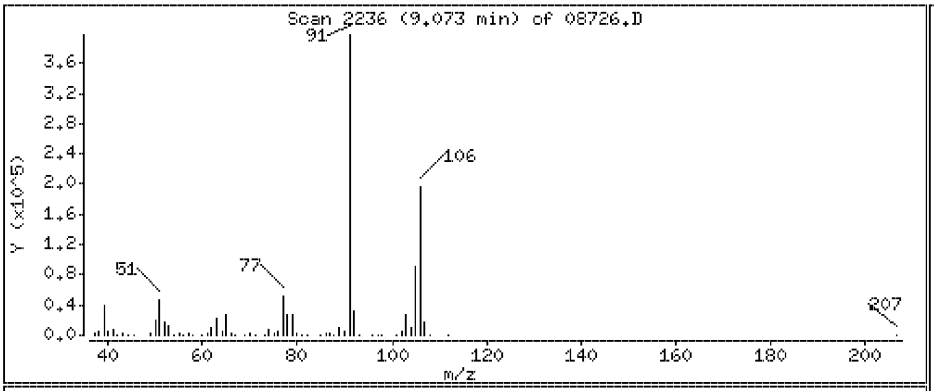
Operator: NCK

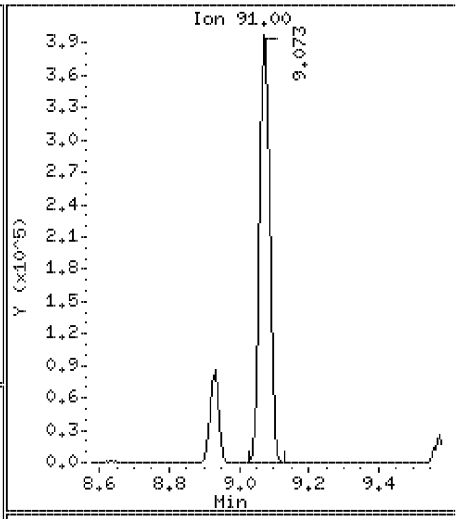
Column phase: J&W DB-5

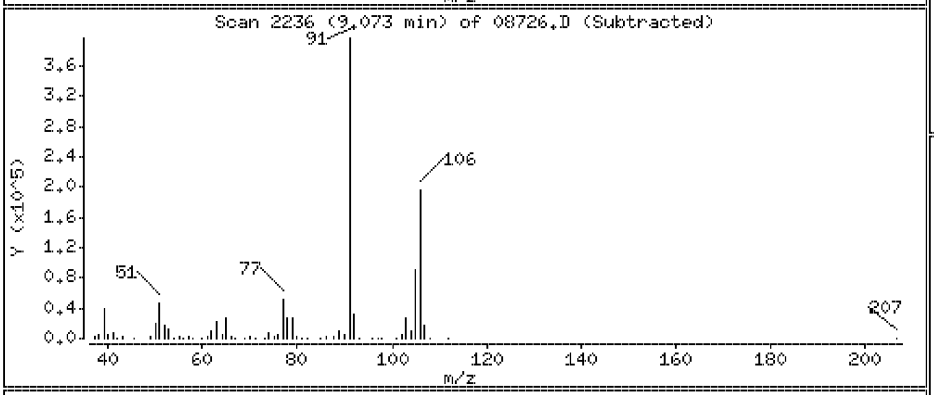
Column diameter: 0.32

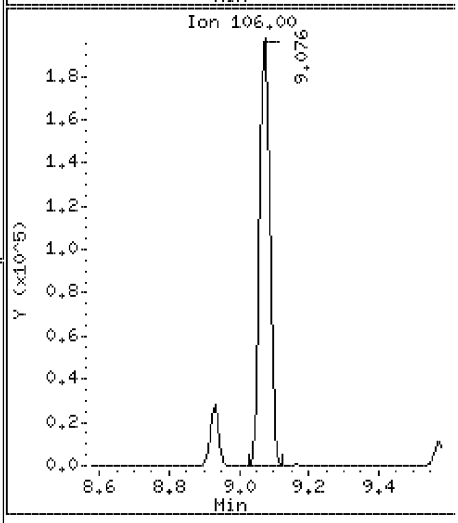
70 m&p-Xylene

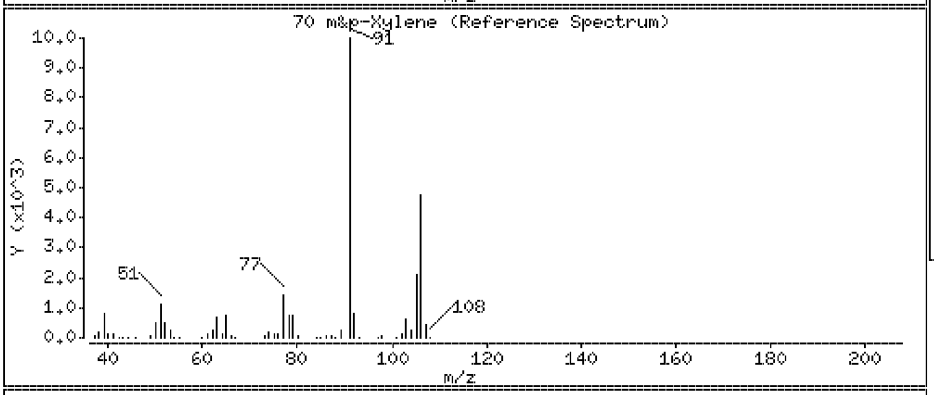
Concentration: 8.23 ppbv

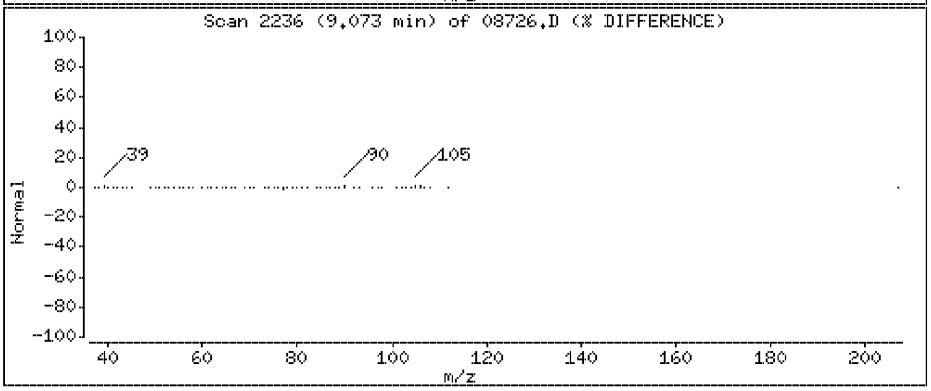












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

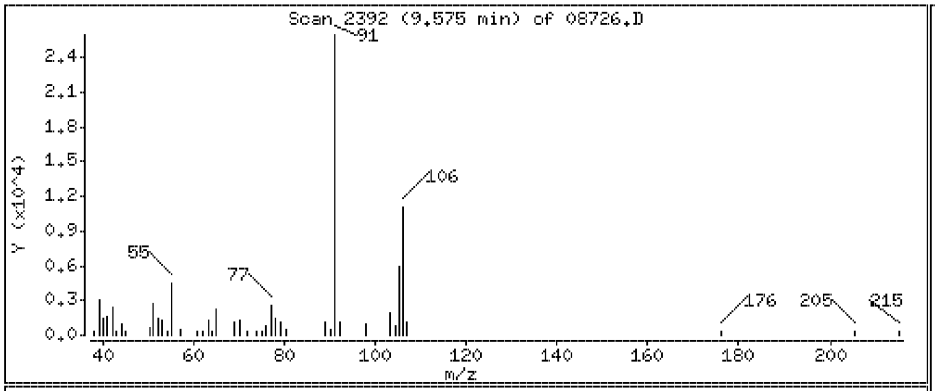
Operator: NCK

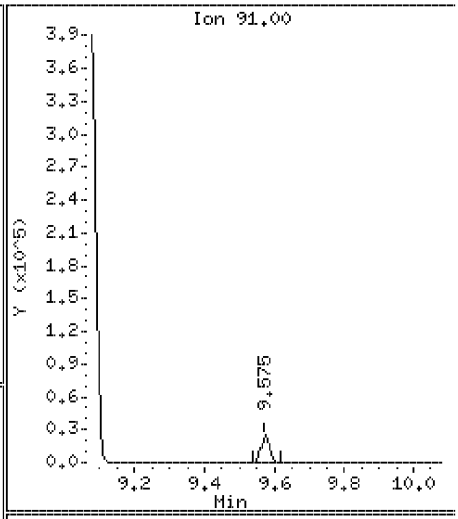
Column phase: J&W DB-5

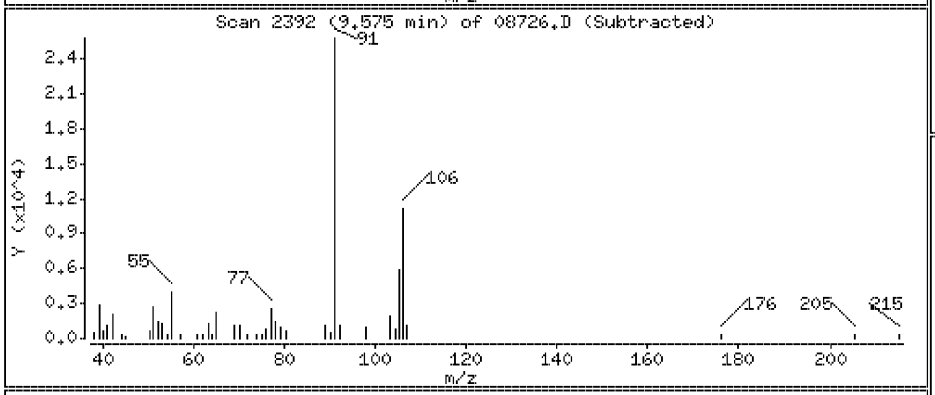
Column diameter: 0.32

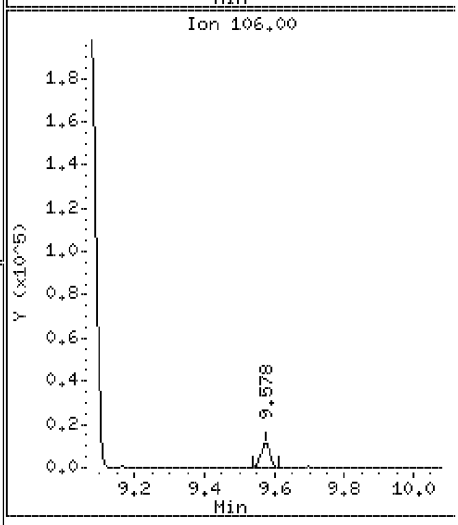
74 o-Xylene

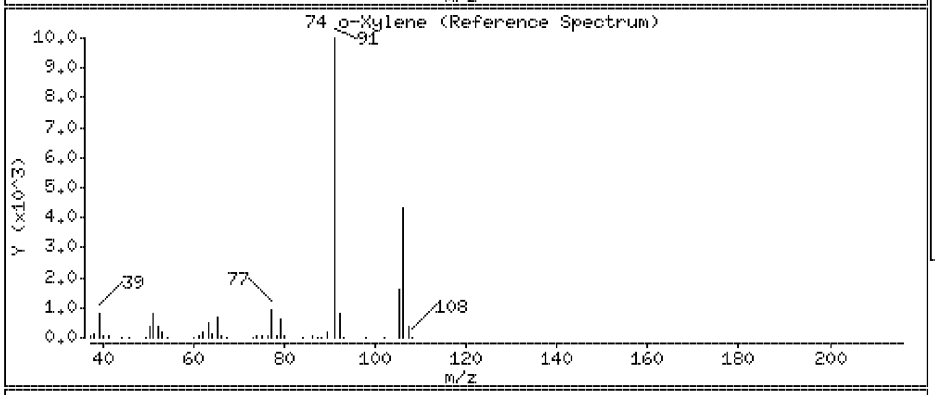
Concentration: 0.399 ppbv

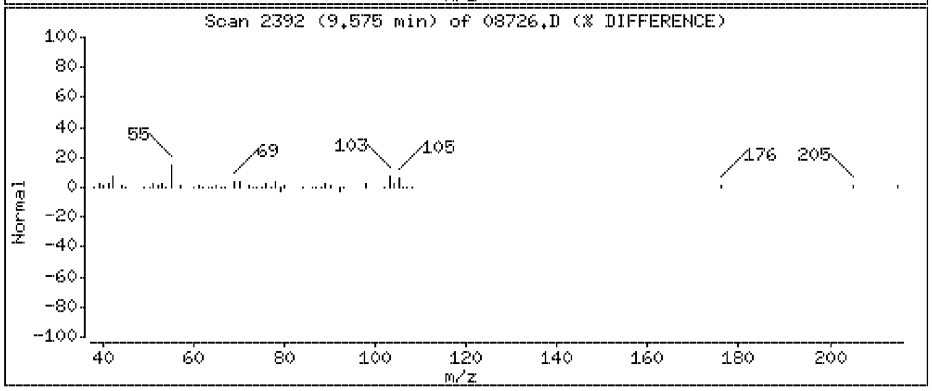












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

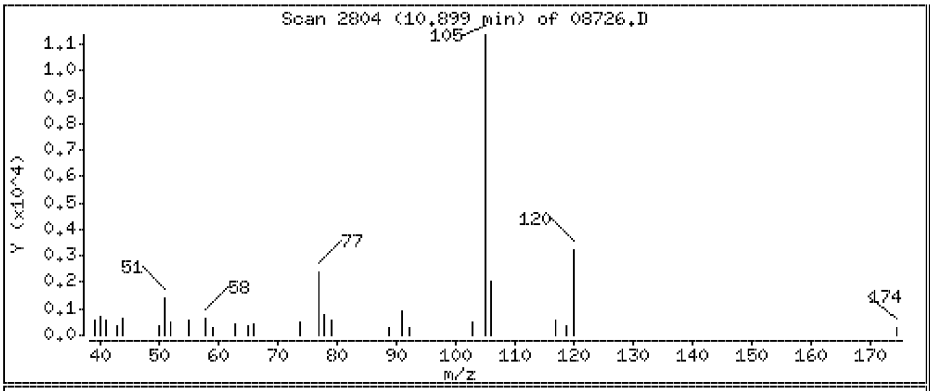
Operator: NCK

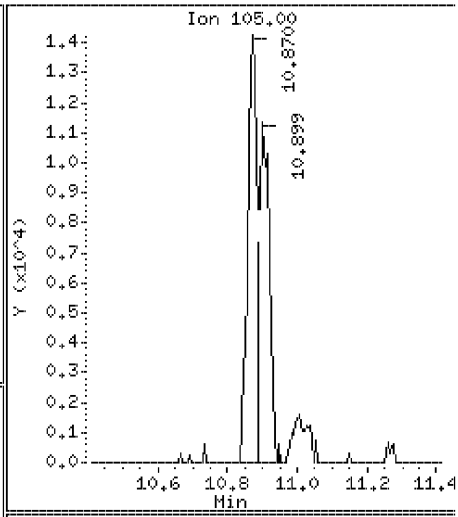
Column phase: J&W DB-5

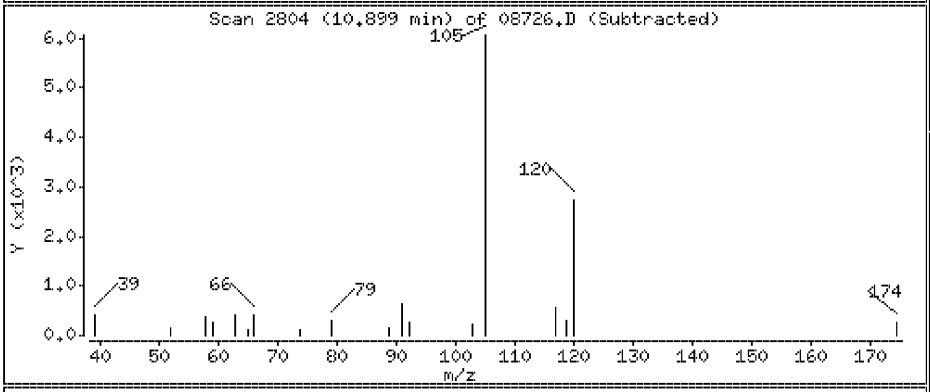
Column diameter: 0.32

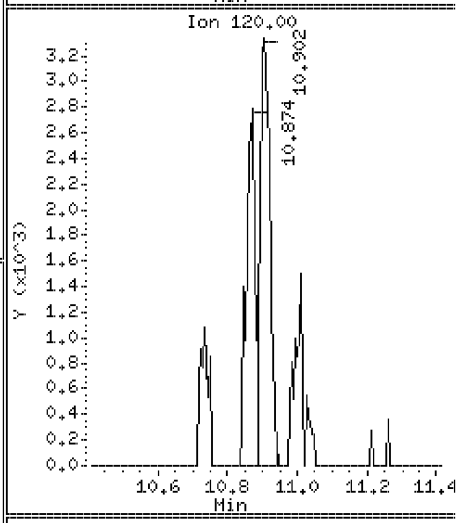
78 4-Ethyltoluene

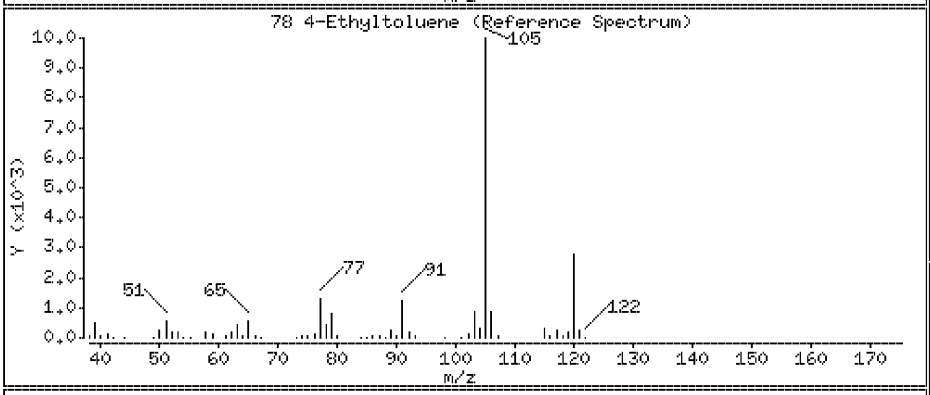
Concentration: 0.192 ppbv

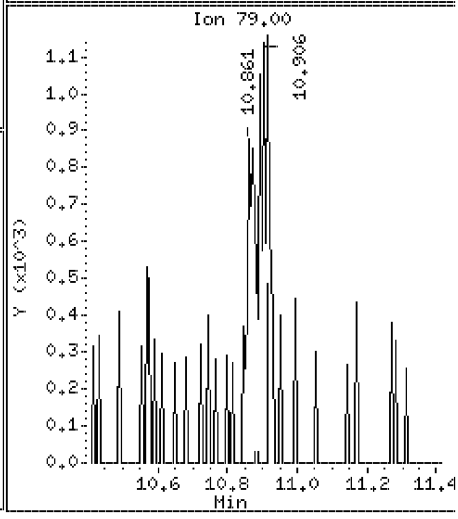


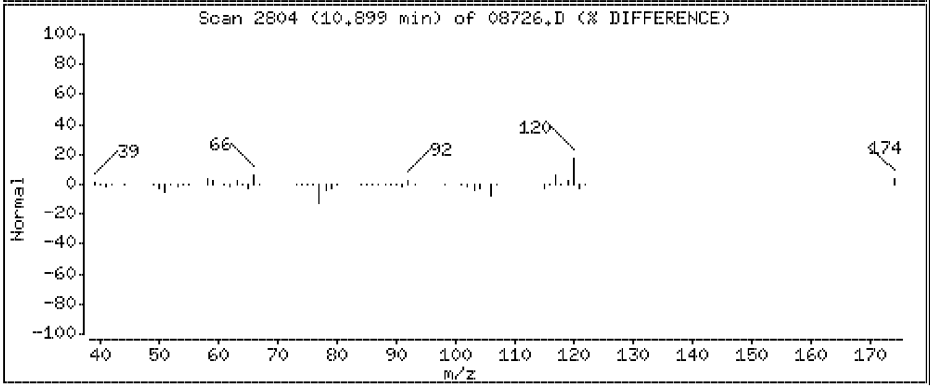












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

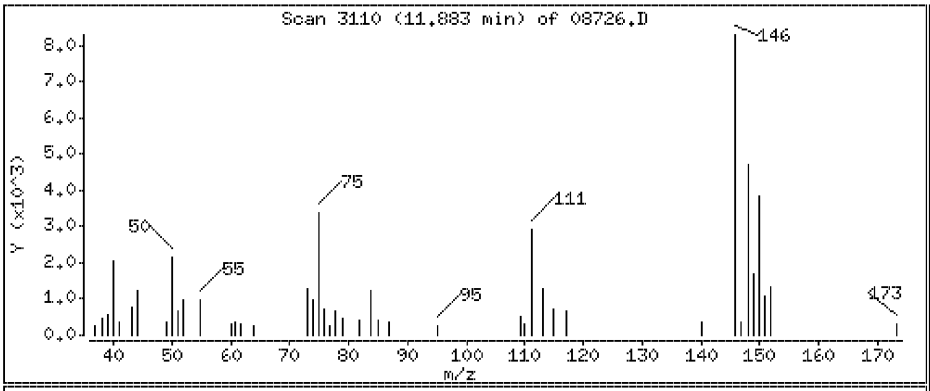
Operator: NCK

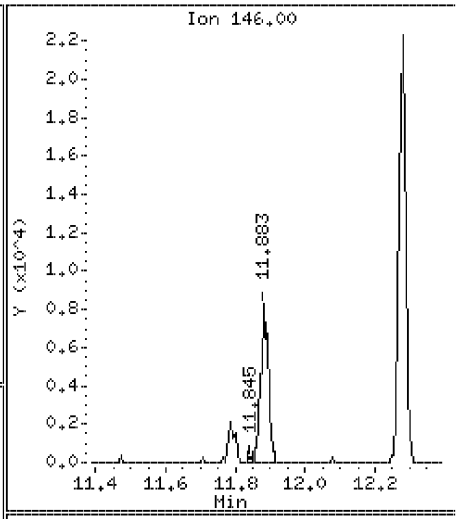
Column phase: J&W DB-5

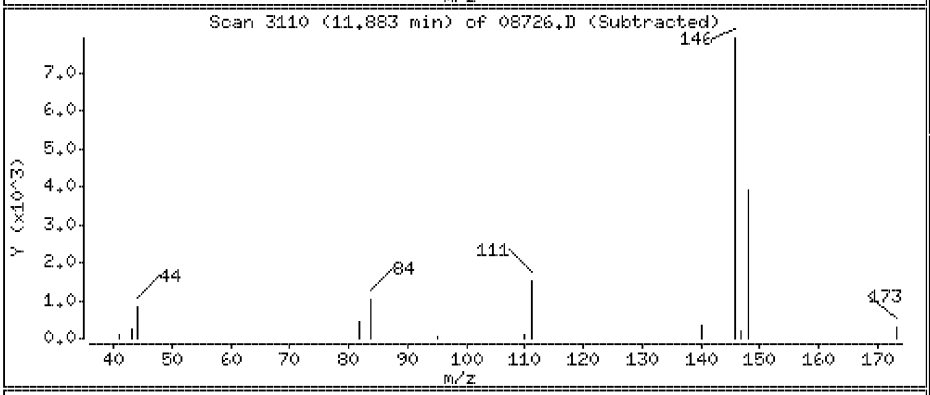
Column diameter: 0.32

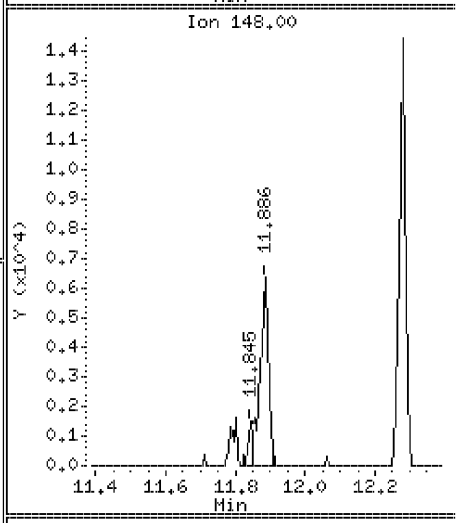
87 1,4-Dichlorobenzene

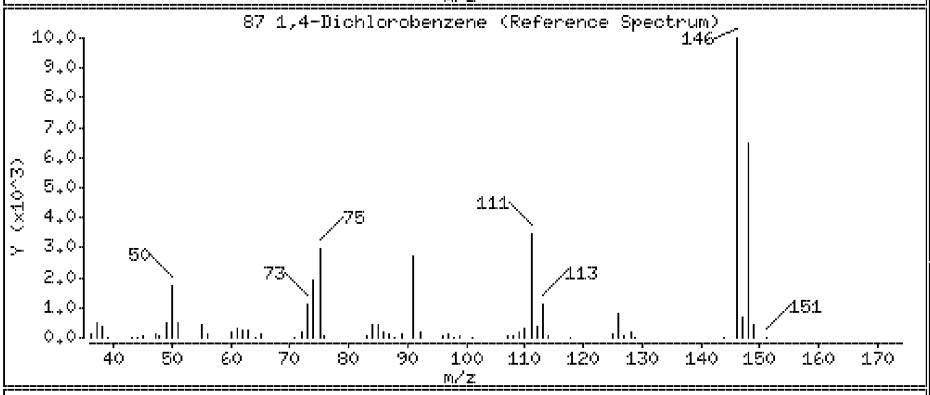
Concentration: 0.206 ppbv

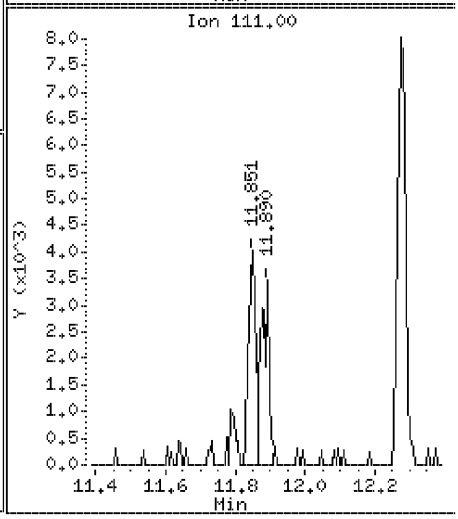


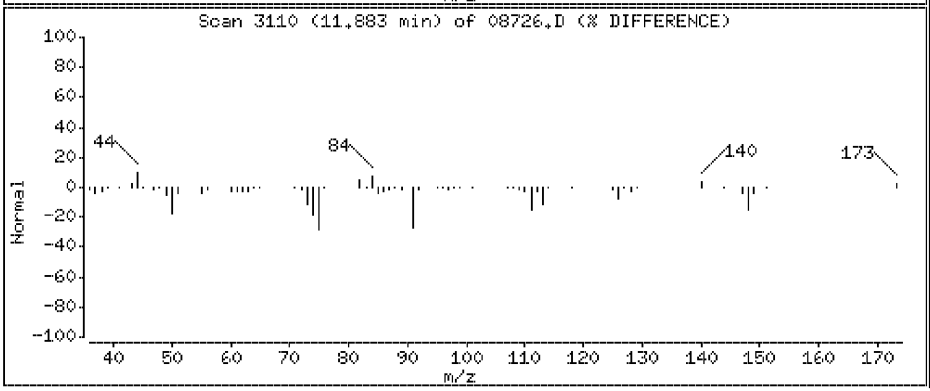












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

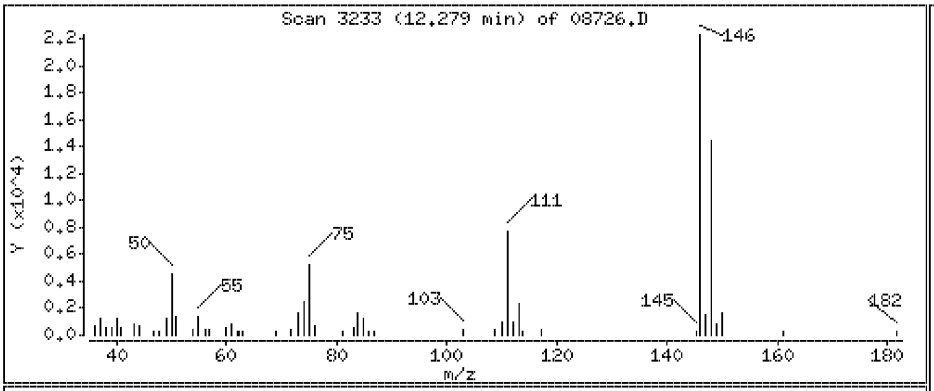
Operator: NCK

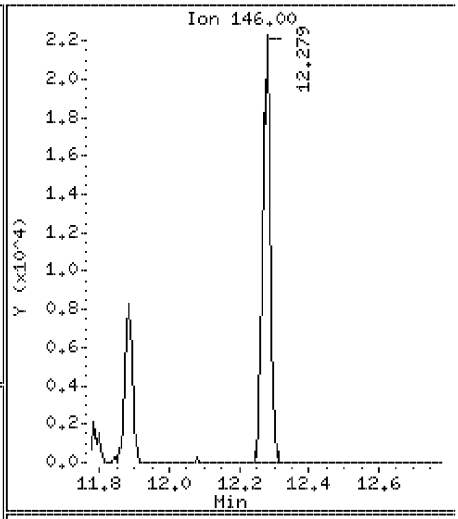
Column phase: J&W DB-5

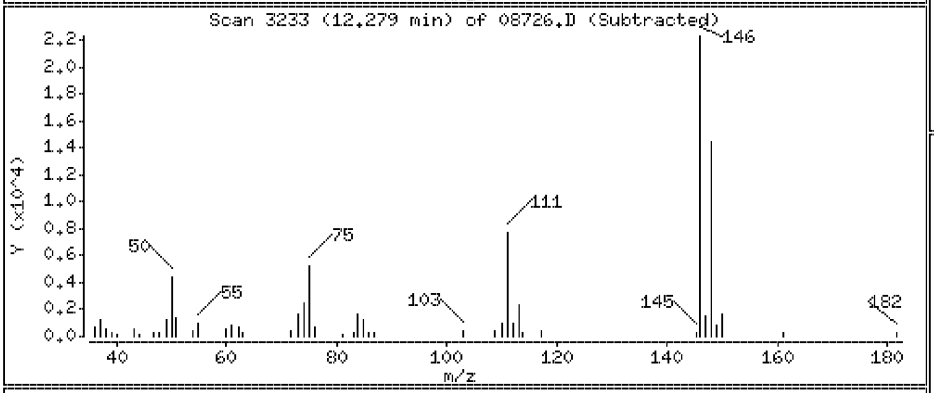
Column diameter: 0.32

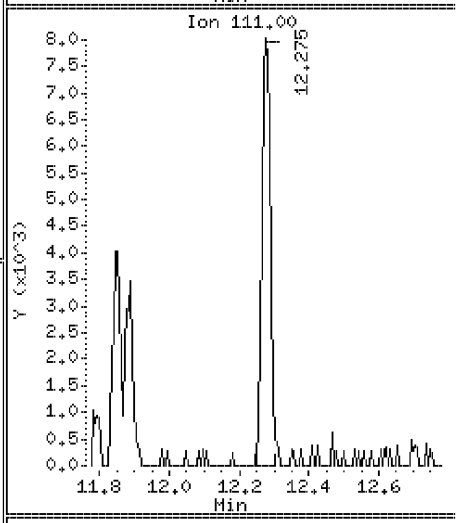
90 1,2-Dichlorobenzene

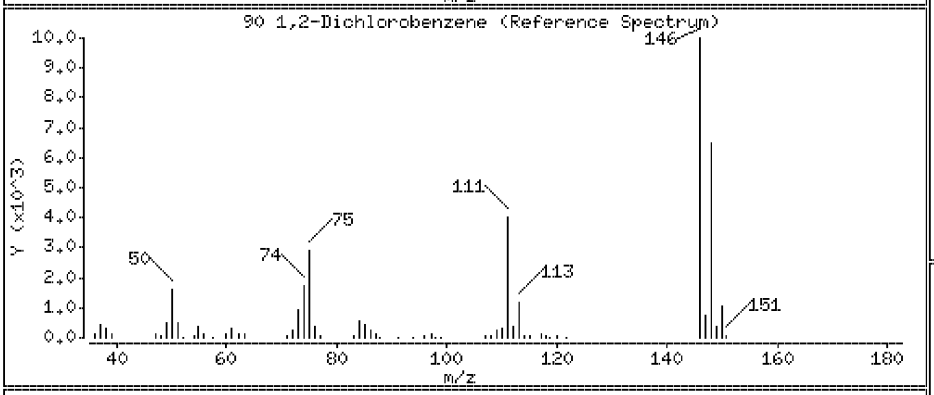
Concentration: 0.575 ppbv

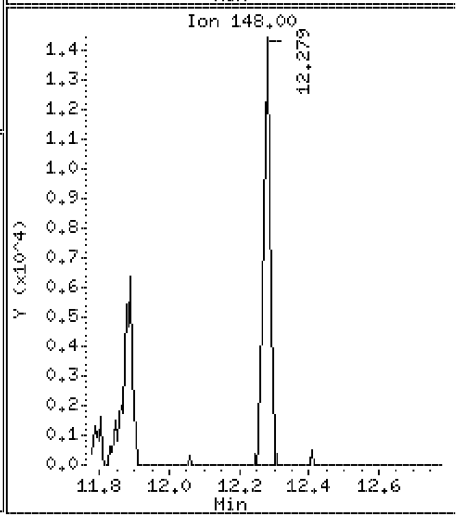


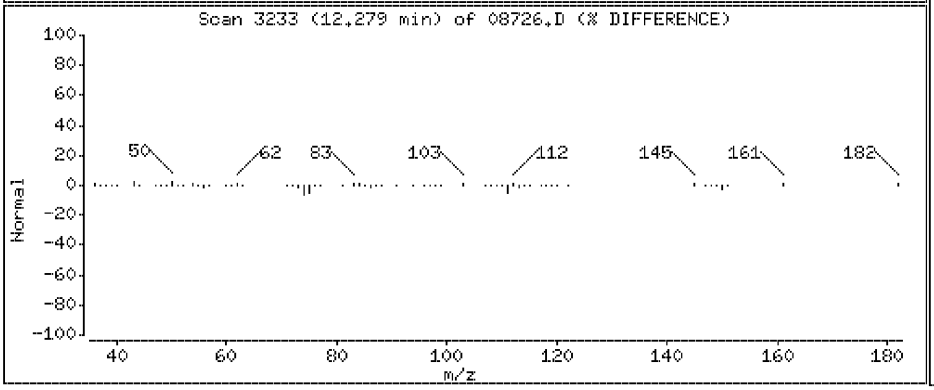












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08726.D

Date : 28-MAR-2017 22:17

Client ID:

Instrument: 10airB.i

Sample Info:

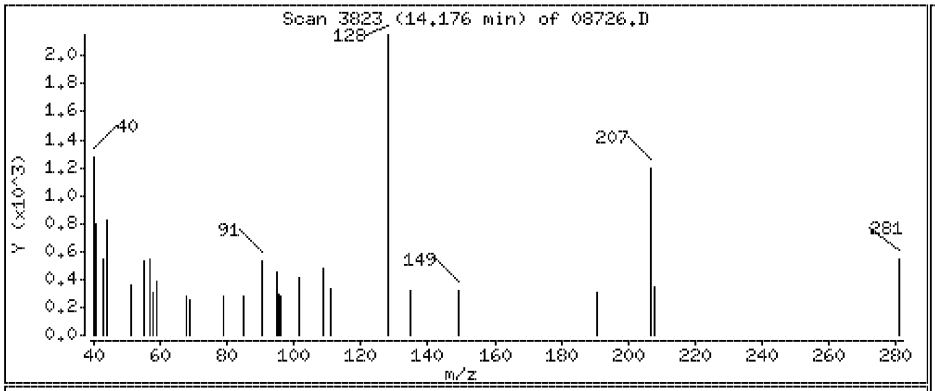
Operator: NCK

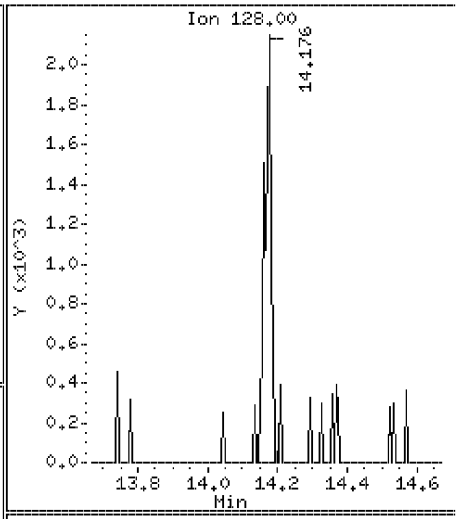
Column phase: J&W DB-5

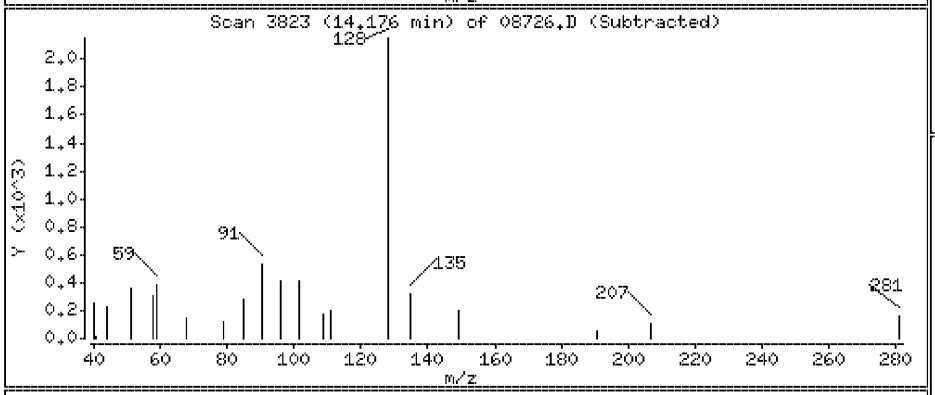
Column diameter: 0.32

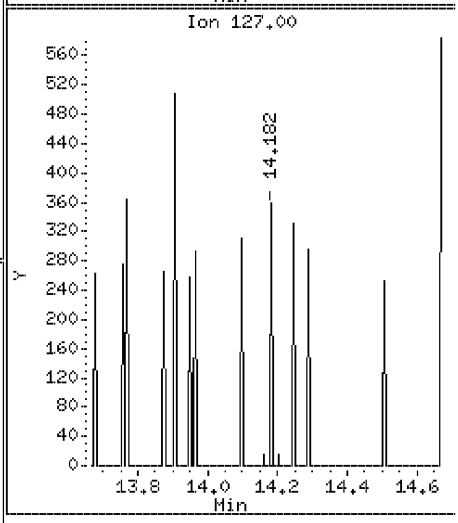
94 Naphthalene

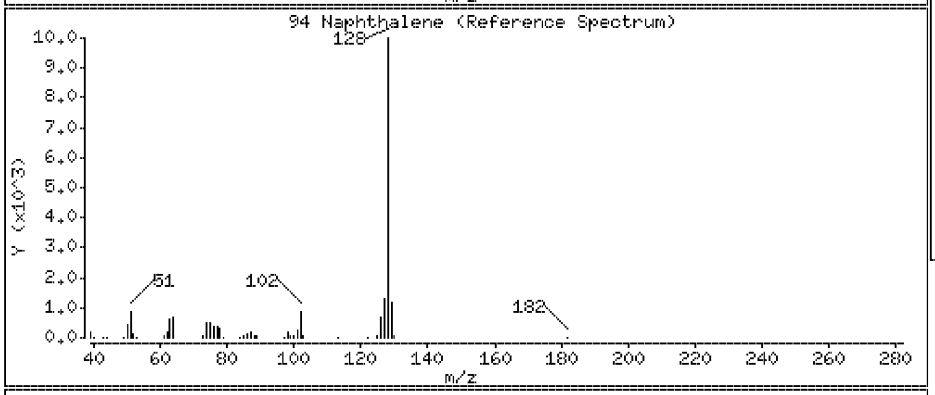
Concentration: 0.643 ppbv

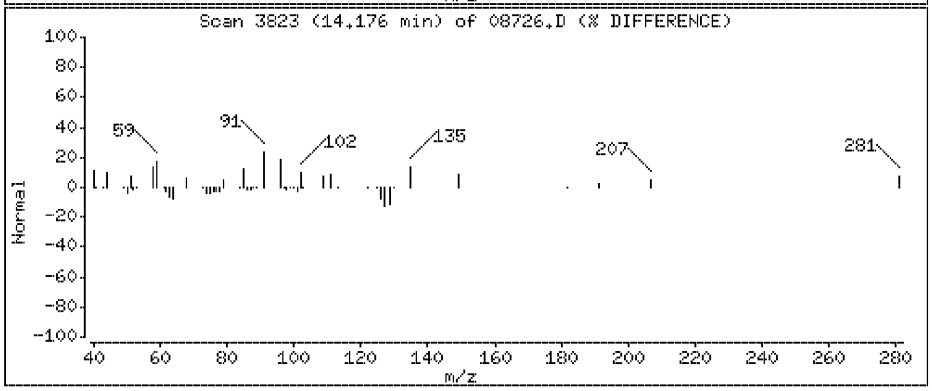






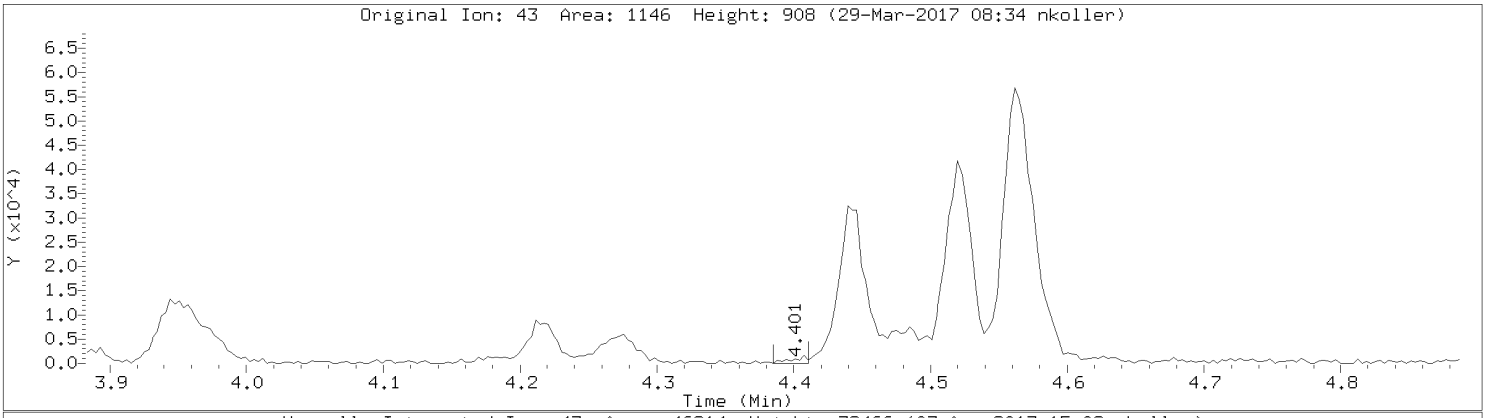


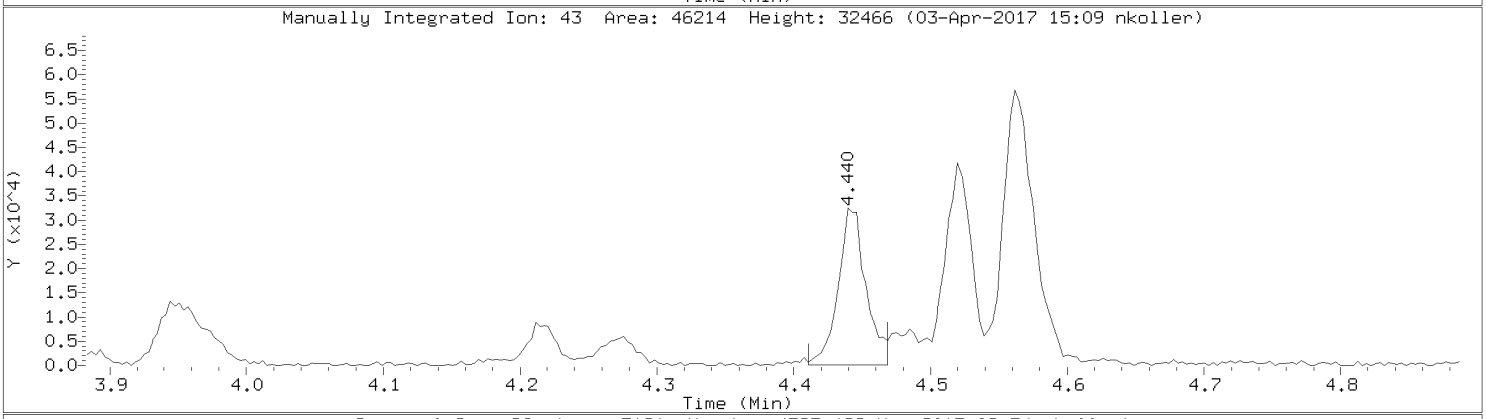


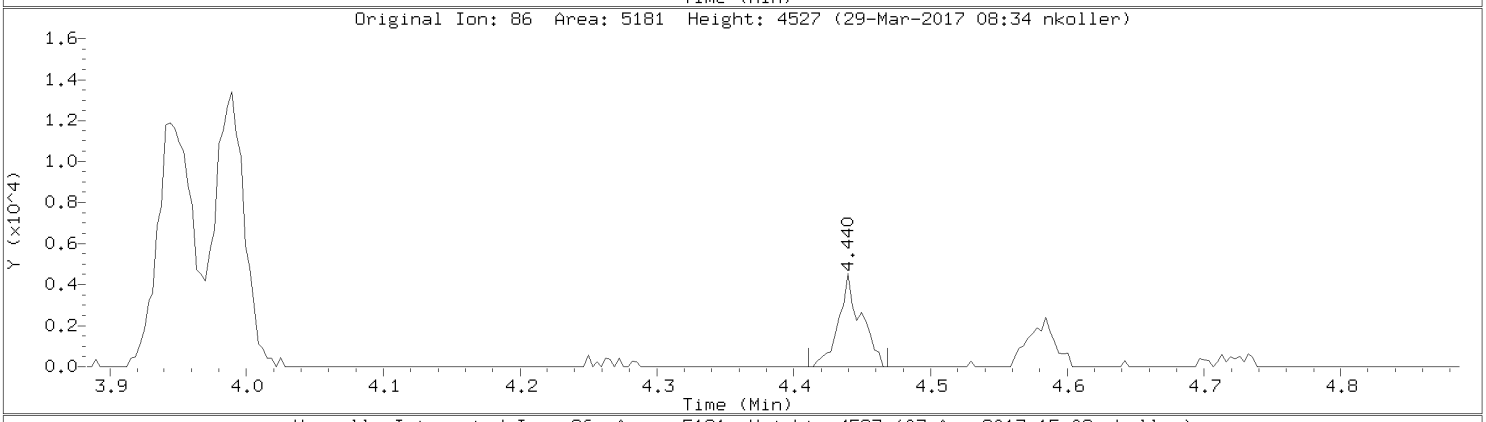


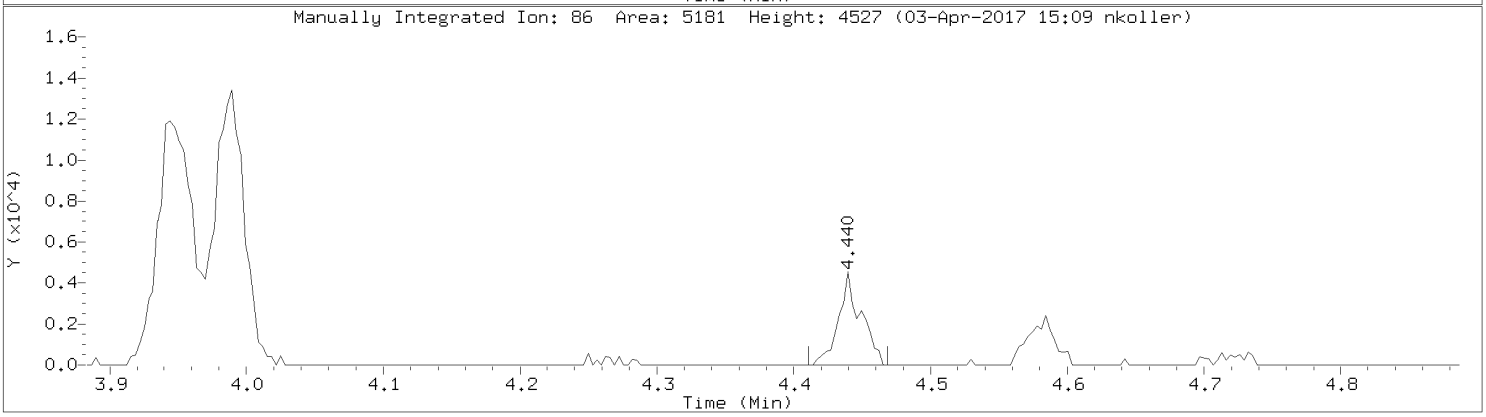
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08726.D
Injection Date: 28-MAR-2017 22:17
Instrument: 10airB.i
Lab Sample ID: 10381335022

Compound: Vinyl Acetate
CAS Number: 108-05-4



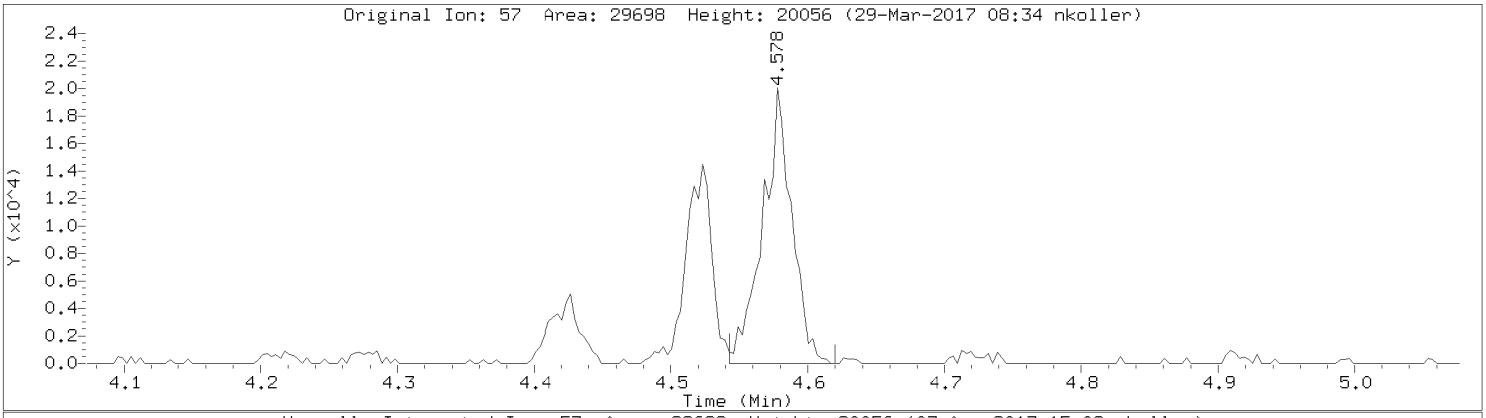


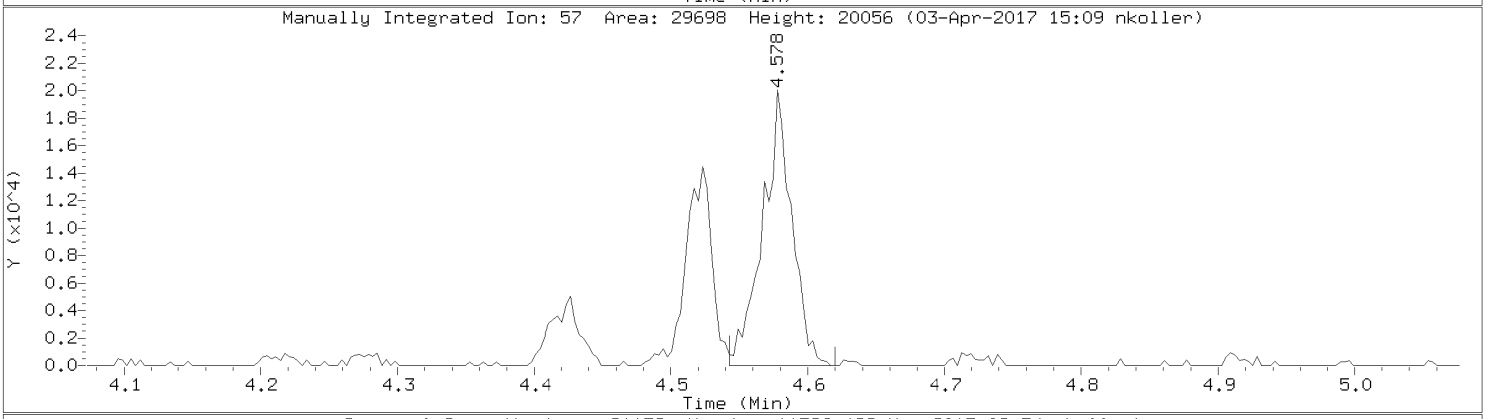


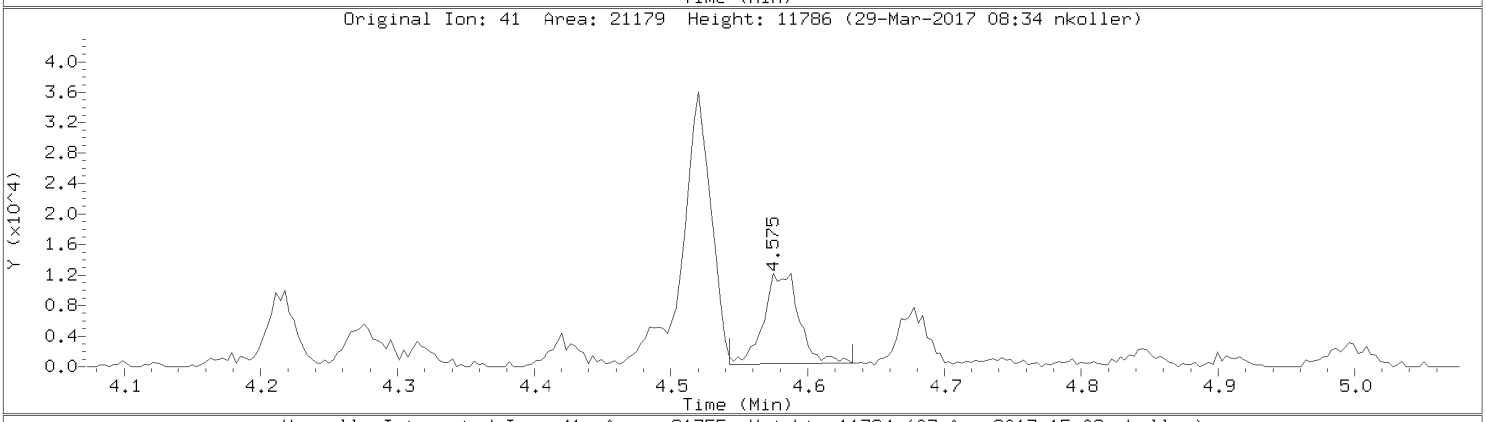


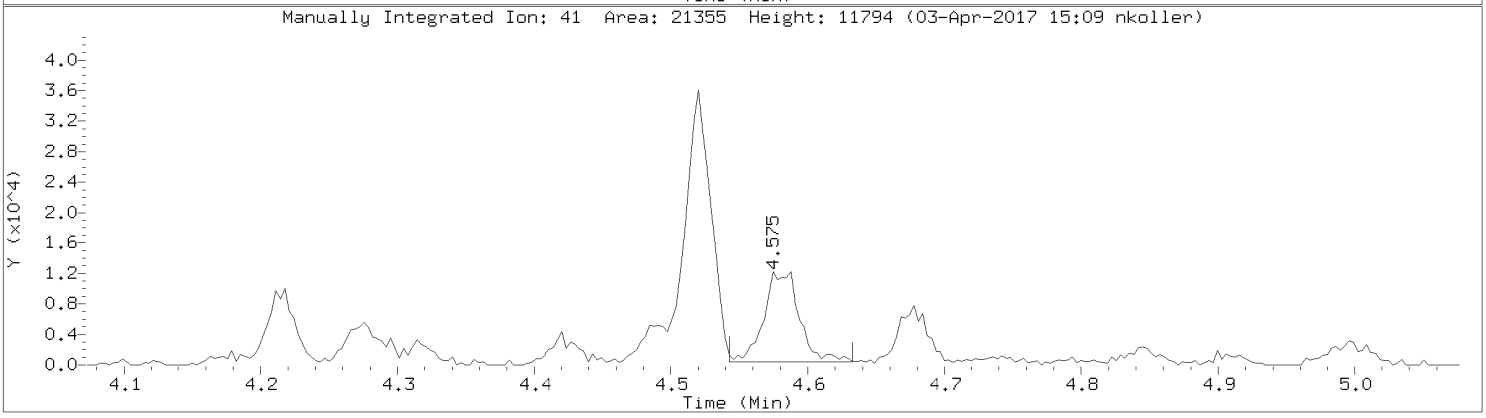
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08726.D
Injection Date: 28-MAR-2017 22:17
Instrument: 10airB.i
Lab Sample ID: 10381335022

Compound: n-Hexane
CAS Number: 110-54-3

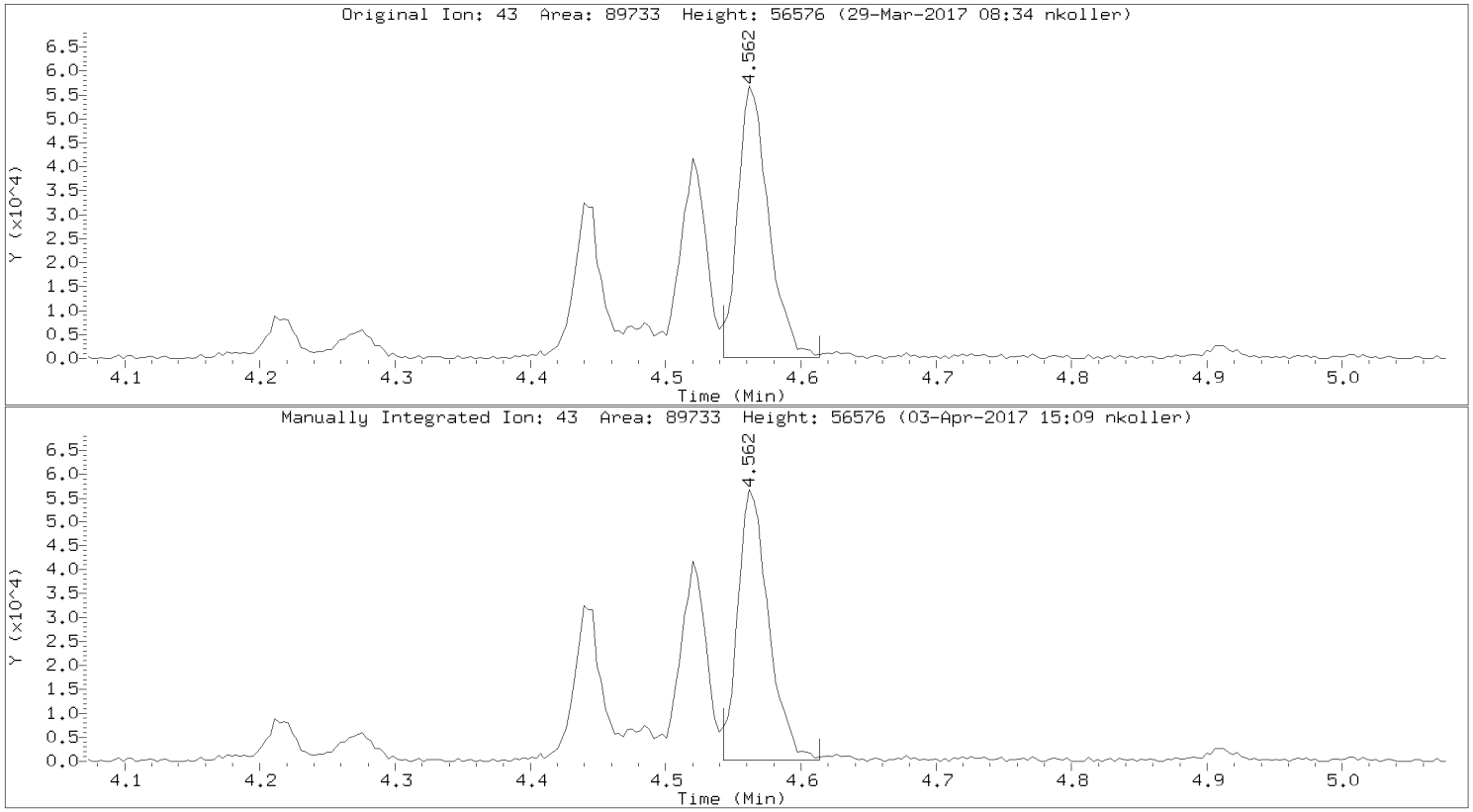






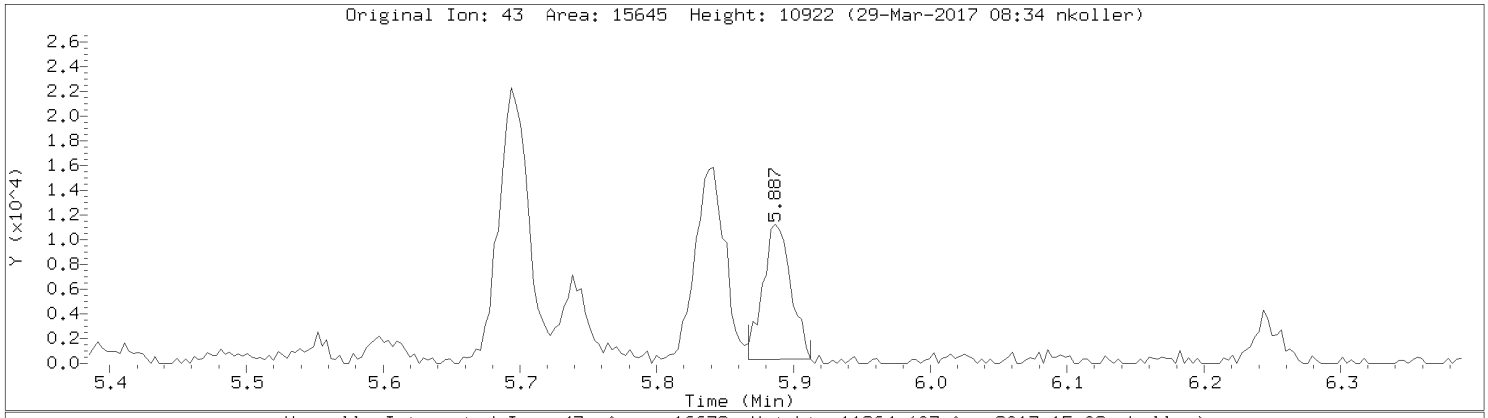


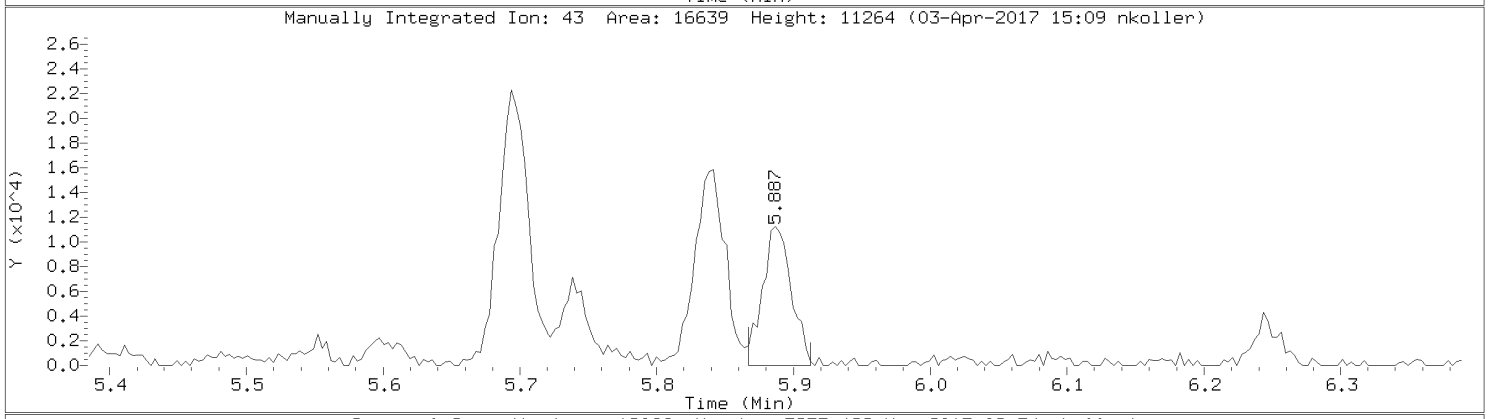
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08726.D
Injection Date: 28-MAR-2017 22:17
Instrument: 10airB.i
Lab Sample ID: 10381335022

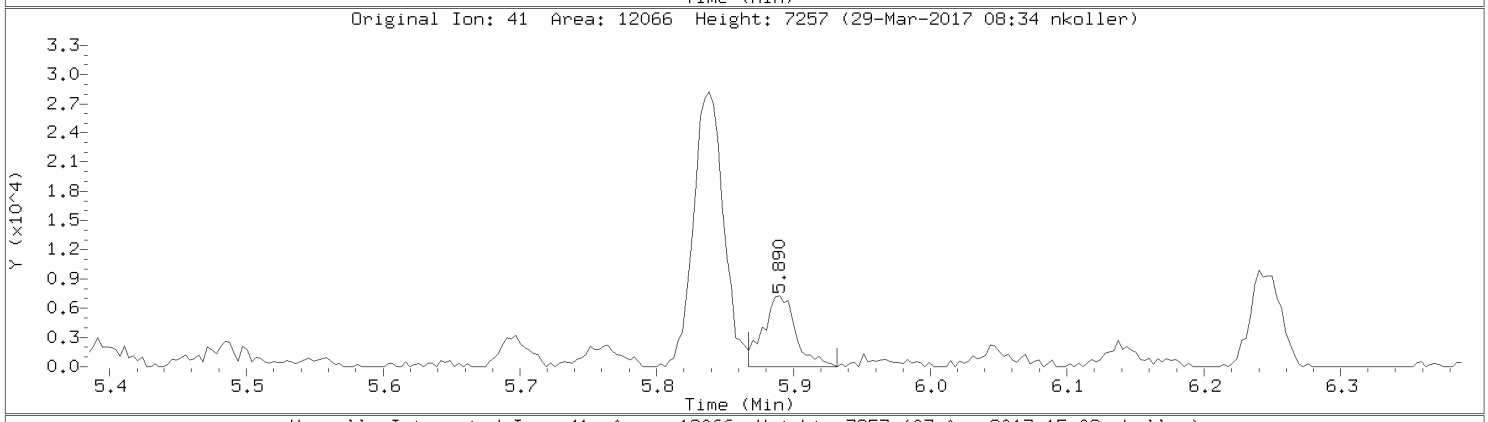


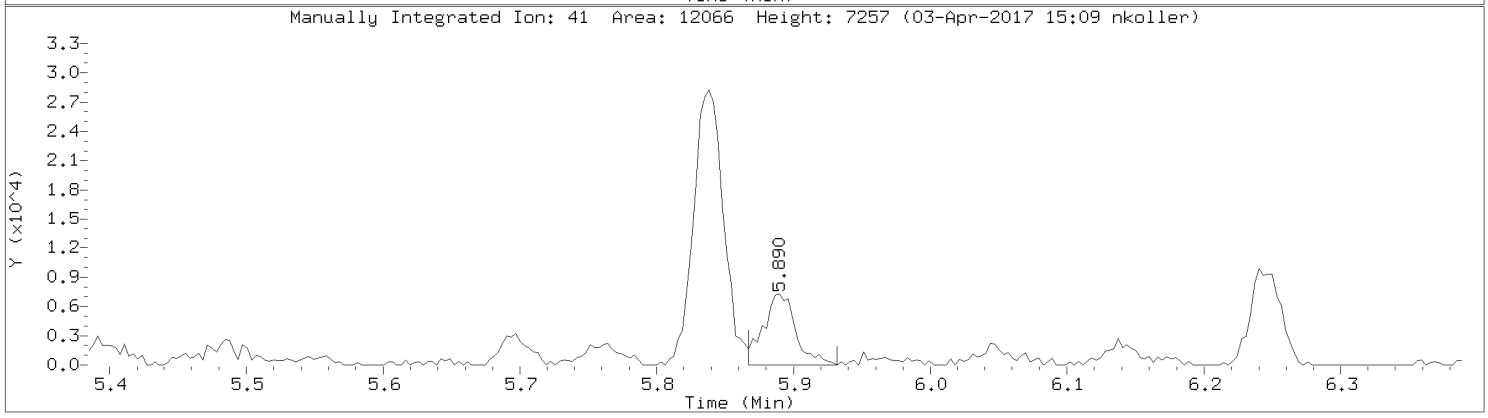
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08726.D
Injection Date: 28-MAR-2017 22:17
Instrument: 10airB.i
Lab Sample ID: 10381335022

Compound: Heptane
CAS Number: 142-82-5



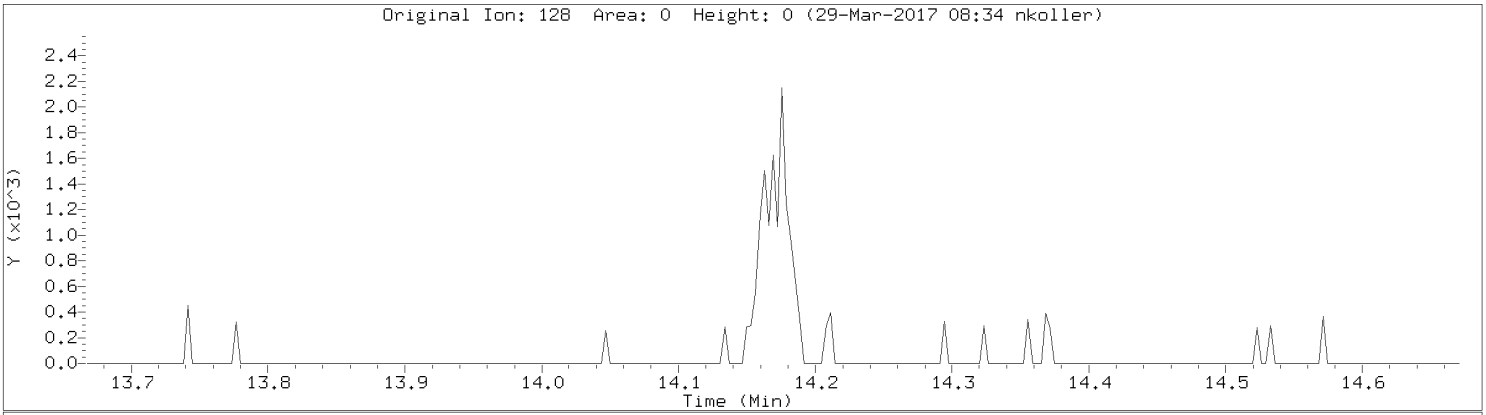


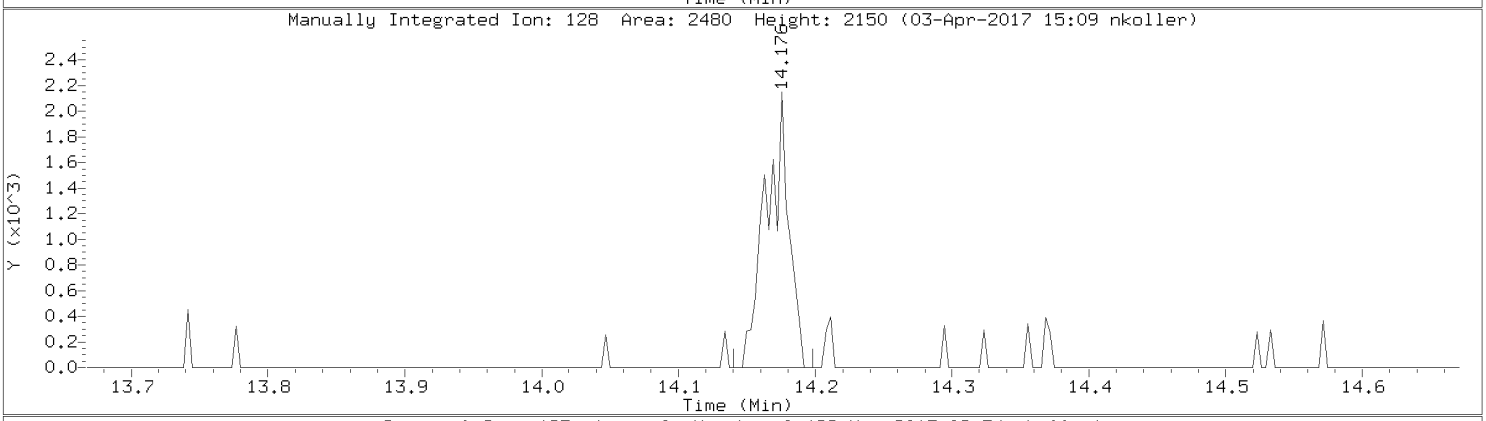


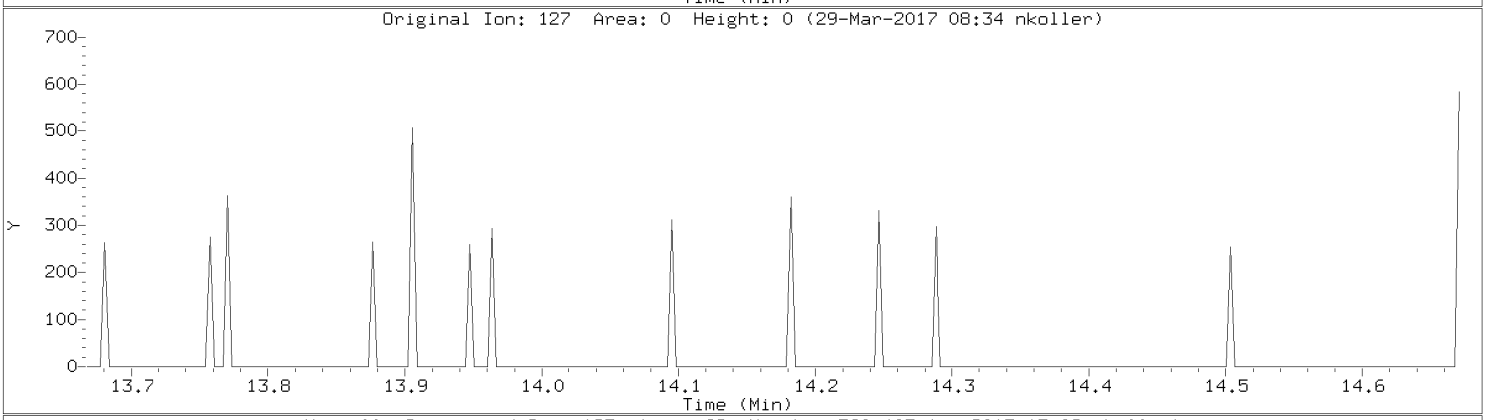


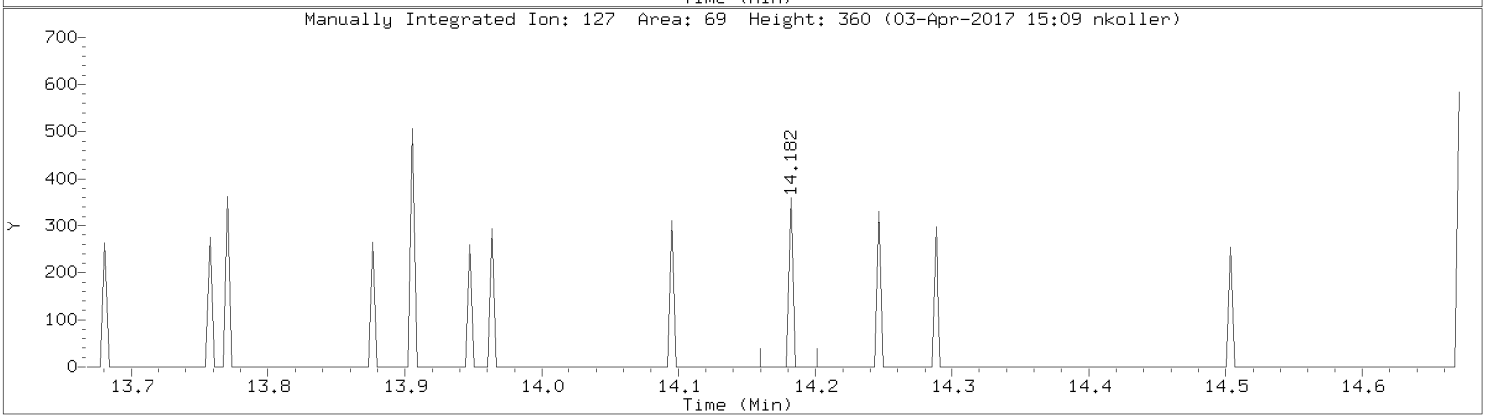
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08726.D
Injection Date: 28-MAR-2017 22:17
Instrument: 10airB.i
Lab Sample ID: 10381335022

Compound: Naphthalene
CAS Number: 91-20-3









Data File: \\192.168.10.12\chem\10airB.i\040117.b\09126.D
Report Date: 03-Apr-2017 12:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040117.b\09126.D
Lab Smp Id: 10381335022
Inj Date : 01-APR-2017 20:17
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m
Meth Date : 03-Apr-2017 11:47 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 26
Dil Factor: 87.50000
Integrator: HP RTE Compound Sublist: cis12.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	87.500	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
37 cis-1,2-Dichloroethene	96	4.703	4.725	(0.840)	371256	9.93997	870(Q)
* 47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	1723817	10.0000	
* 67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	987997	10.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09126.D
Report Date: 03-Apr-2017 12:59

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09126.D
Lab Smp Id: 10381335022
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m
Misc Info: 28028

Calibration Date: 01-APR-2017
Calibration Time: 07:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

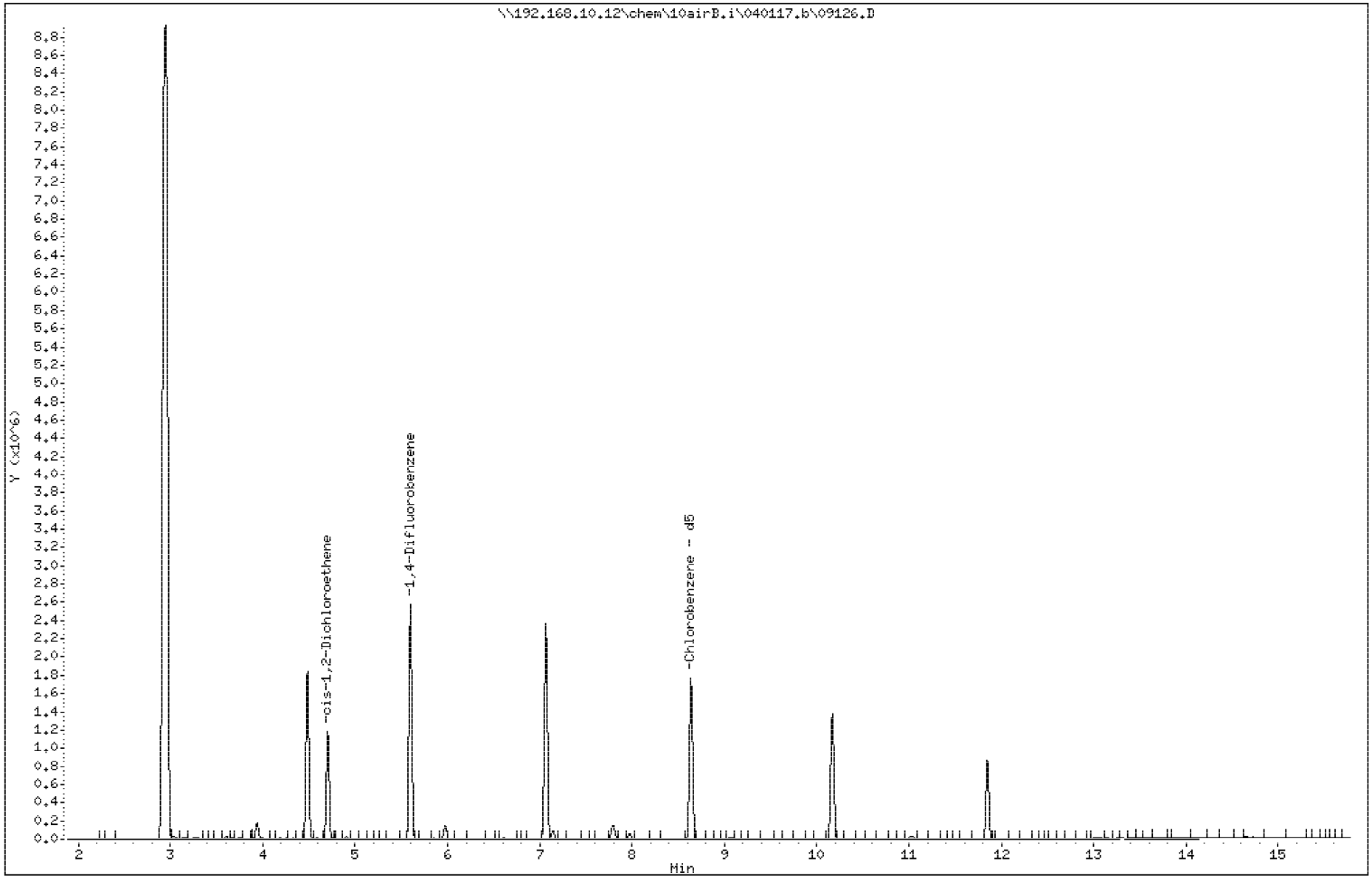
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1723817	-10.99
67 Chlorobenzene - d	1173864	704318	1643410	987997	-15.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09126.D
Date : 01-APR-2017 20:17
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040117.b\09126.D

Date : 01-APR-2017 20:17

Client ID:

Instrument: 10airB.i

Sample Info:

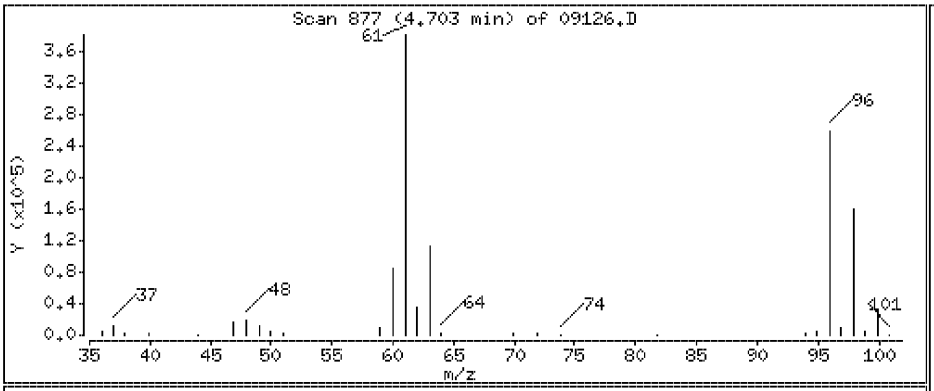
Operator: NCK

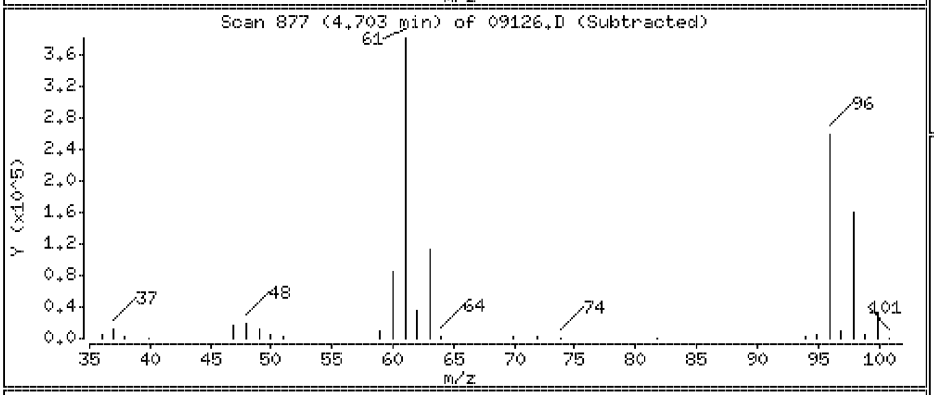
Column phase: J&W DB-5

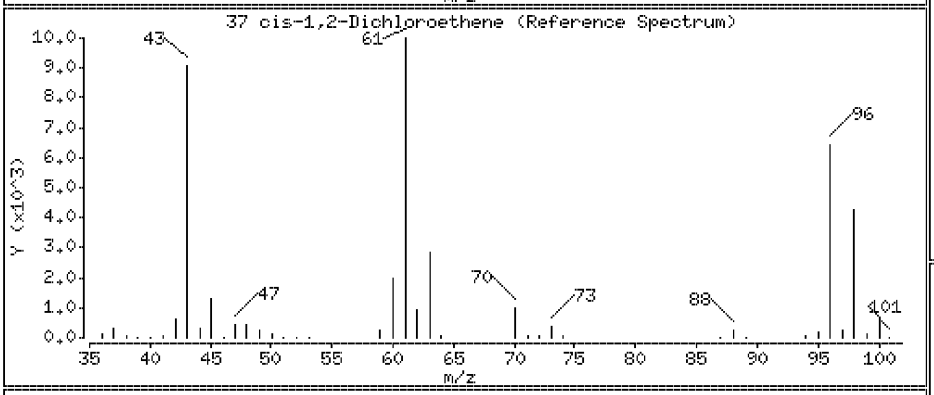
Column diameter: 0.32

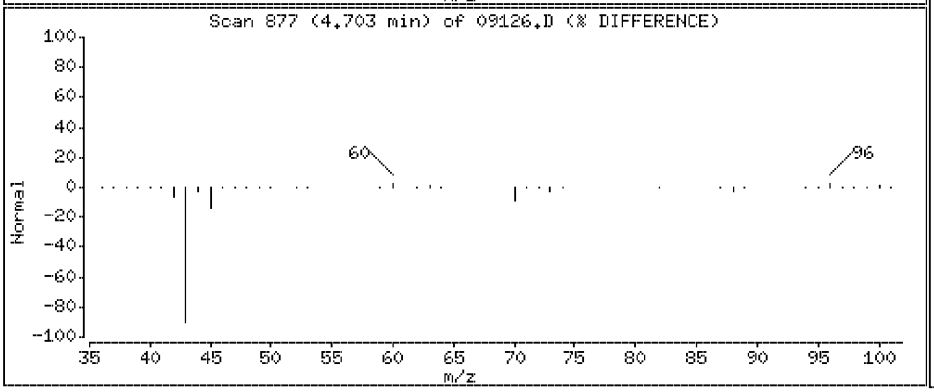
37 cis-1,2-Dichloroethene

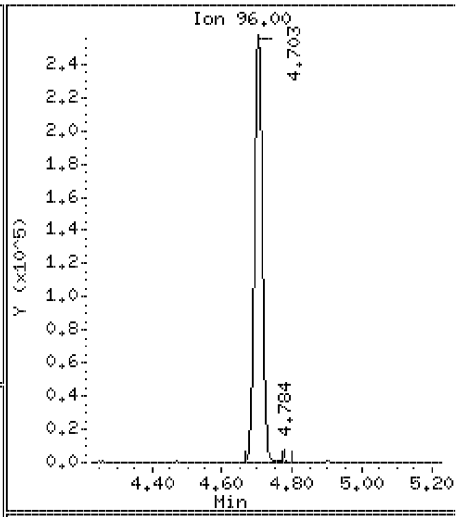
Concentration: 870 ppbv

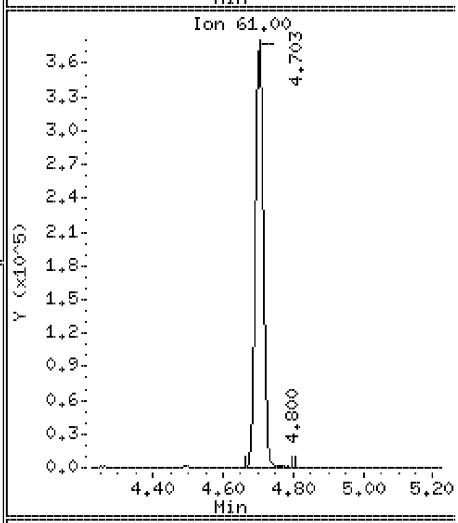


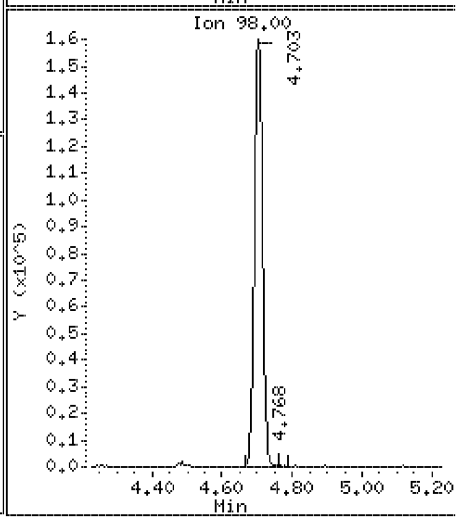












Data File: \\192.168.10.12\chem\10airB.i\040117.b/09126.D
Injection Date: 01-APR-2017 20:17
Instrument: 10airB.i
Lab Sample ID: 10381335022
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_60_20170307 **Lab ID: 10381335022** Collected: 03/07/17 12:20 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/28/17 22:17	1634-04-4	
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/28/17 22:17	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/28/17 22:17	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/28/17 22:17	79-34-5	
Tetrachloroethene	**99.5**	ug/m3	1.2	0.49	1.75		03/28/17 22:17	127-18-4	
Toluene	**111**	ug/m3	1.3	0.27	1.75		03/28/17 22:17	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/28/17 22:17	120-82-1	
1,1,1-Trichloroethane	**6.1**	ug/m3	1.9	0.43	1.75		03/28/17 22:17	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/28/17 22:17	79-00-5	
Trichloroethene	**127**	ug/m3	0.96	0.48	1.75		03/28/17 22:17	79-01-6	
Trichlorofluoromethane	**12.5**	ug/m3	2.0	0.23	1.75		03/28/17 22:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	**413**	ug/m3	2.8	0.53	1.75		03/28/17 22:17	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/28/17 22:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/28/17 22:17	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/28/17 22:17	75-01-4	
m&p-Xylene	**36.3**	ug/m3	3.1	1.4	1.75		03/28/17 22:17	179601-23-1	
o-Xylene	**1.8**	ug/m3	1.5	0.61	1.75		03/28/17 22:17	95-47-6	

Sample: VP-108D_70_20170307 **Lab ID: 10381335023** Collected: 03/07/17 12:28 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**17.6J**	ug/m3	21.1	7.3	8.75		03/29/17 02:01	67-64-1	
Allyl chloride	**<2.0**	ug/m3	13.9	2.0	8.75		03/29/17 02:01	107-05-1	
Benzene	**<1.1**	ug/m3	2.8	1.1	8.75		03/29/17 02:01	71-43-2	
Bromodichloromethane	**<1.7**	ug/m3	11.9	1.7	8.75		03/29/17 02:01	75-27-4	
Bromoform	**<7.9**	ug/m3	18.4	7.9	8.75		03/29/17 02:01	75-25-2	
Bromomethane	**<2.7**	ug/m3	6.9	2.7	8.75		03/29/17 02:01	74-83-9	
1,3-Butadiene	**<1.5**	ug/m3	3.9	1.5	8.75		03/29/17 02:01	106-99-0	
2-Butanone (MEK)	**<2.0**	ug/m3	26.2	2.0	8.75		03/29/17 02:01	78-93-3	
Carbon disulfide	**<0.88**	ug/m3	5.5	0.88	8.75		03/29/17 02:01	75-15-0	
Carbon tetrachloride	**<1.7**	ug/m3	5.6	1.7	8.75		03/29/17 02:01	56-23-5	
Chlorobenzene	**<1.2**	ug/m3	8.2	1.2	8.75		03/29/17 02:01	108-90-7	
Chlorodifluoromethane	**<2.4**	ug/m3	6.3	2.4	8.75		03/29/17 02:01	75-45-6	
Chloroethane	**<1.7**	ug/m3	4.7	1.7	8.75		03/29/17 02:01	75-00-3	
Chloroform	**<1.7**	ug/m3	4.3	1.7	8.75		03/29/17 02:01	67-66-3	
Chloromethane	**<0.94**	ug/m3	3.7	0.94	8.75		03/29/17 02:01	74-87-3	
Chloropentafluoroethane	**<28.1**	ug/m3	28.1	28.1	8.75		03/29/17 02:01	76-15-3	
Cyclohexane	**<2.8**	ug/m3	6.1	2.8	8.75		03/29/17 02:01	110-82-7	
1,2-Dibromo-3-chloropropane	**<43.0**	ug/m3	43.0	43.0	8.75		03/29/17 02:01	96-12-8	
Dibromochloromethane	**<7.5**	ug/m3	15.1	7.5	8.75		03/29/17 02:01	124-48-1	
1,2-Dibromoethane (EDB)	**<6.8**	ug/m3	13.6	6.8	8.75		03/29/17 02:01	106-93-4	
1,2-Dichlorobenzene	**<4.5**	ug/m3	10.7	4.5	8.75		03/29/17 02:01	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_70_20170307 **Lab ID: 10381335023** Collected: 03/07/17 12:28 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<4.6**	ug/m3	10.7	4.6	8.75		03/29/17 02:01	541-73-1	
1,4-Dichlorobenzene	**<4.4**	ug/m3	10.7	4.4	8.75		03/29/17 02:01	106-46-7	
Dichlorodifluoromethane	**10.3**	ug/m3	8.8	4.2	8.75		03/29/17 02:01	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/m3	7.2	1.4	8.75		03/29/17 02:01	75-34-3	
1,2-Dichloroethane	**<1.8**	ug/m3	3.6	1.8	8.75		03/29/17 02:01	107-06-2	
1,1-Dichloroethene	**4.7J**	ug/m3	7.1	2.1	8.75		03/29/17 02:01	75-35-4	
cis-1,2-Dichloroethene	**535**	ug/m3	7.1	2.2	8.75		03/29/17 02:01	156-59-2	
trans-1,2-Dichloroethene	**<3.4**	ug/m3	7.1	3.4	8.75		03/29/17 02:01	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/m3	8.2	2.4	8.75		03/29/17 02:01	78-87-5	
cis-1,3-Dichloropropene	**<3.2**	ug/m3	8.0	3.2	8.75		03/29/17 02:01	10061-01-5	
trans-1,3-Dichloropropene	**<2.3**	ug/m3	20.2	2.3	8.75		03/29/17 02:01	10061-02-6	
Dichlorotetrafluoroethane	**<2.7**	ug/m3	12.4	2.7	8.75		03/29/17 02:01	76-14-2	
Freon 123	**<27.8**	ug/m3	27.8	27.8	8.75		03/29/17 02:01	306-83-2	
1,4-Dioxane (p-Dioxane)	**<3.1**	ug/m3	32.0	3.1	8.75		03/29/17 02:01	123-91-1	
Ethylbenzene	**6.2J**	ug/m3	7.7	3.7	8.75		03/29/17 02:01	100-41-4	
4-Ethyltoluene	**<1.6**	ug/m3	8.8	1.6	8.75		03/29/17 02:01	622-96-8	
Hexachloro-1,3-butadiene	**<5.7**	ug/m3	19.0	5.7	8.75		03/29/17 02:01	87-68-3	
n-Hexane	**<3.1**	ug/m3	6.3	3.1	8.75		03/29/17 02:01	110-54-3	
2-Hexanone	**<3.6**	ug/m3	36.4	3.6	8.75		03/29/17 02:01	591-78-6	
Isopropylbenzene (Cumene)	**<1.2**	ug/m3	21.9	1.2	8.75		03/29/17 02:01	98-82-8	
Methyl acetate	**39.1**	ug/m3	13.5	13.5	8.75		03/29/17 02:01	79-20-9	
Methylcyclohexane	**<2.1**	ug/m3	7.1	2.1	8.75		03/29/17 02:01	108-87-2	
Methylene Chloride	**<4.7**	ug/m3	30.9	4.7	8.75		03/29/17 02:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.9**	ug/m3	36.4	1.9	8.75		03/29/17 02:01	108-10-1	
Methyl-tert-butyl ether	**<2.7**	ug/m3	32.1	2.7	8.75		03/29/17 02:01	1634-04-4	
2-Propanol	**<2.1**	ug/m3	21.9	2.1	8.75		03/29/17 02:01	67-63-0	
Styrene	**<1.7**	ug/m3	7.6	1.7	8.75		03/29/17 02:01	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.9**	ug/m3	6.1	2.9	8.75		03/29/17 02:01	79-34-5	
Tetrachloroethene	**118**	ug/m3	6.0	2.4	8.75		03/29/17 02:01	127-18-4	
Toluene	**124**	ug/m3	6.7	1.3	8.75		03/29/17 02:01	108-88-3	
1,2,4-Trichlorobenzene	**<8.0**	ug/m3	33.0	8.0	8.75		03/29/17 02:01	120-82-1	
1,1,1-Trichloroethane	**<2.2**	ug/m3	9.7	2.2	8.75		03/29/17 02:01	71-55-6	
1,1,2-Trichloroethane	**<2.2**	ug/m3	4.8	2.2	8.75		03/29/17 02:01	79-00-5	
Trichloroethene	**30.9**	ug/m3	4.8	2.4	8.75		03/29/17 02:01	79-01-6	
Trichlorofluoromethane	**15.7**	ug/m3	10	1.2	8.75		03/29/17 02:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	**342**	ug/m3	14.0	2.6	8.75		03/29/17 02:01	76-13-1	
1,2,4-Trimethylbenzene	**<1.1**	ug/m3	8.7	1.1	8.75		03/29/17 02:01	95-63-6	
1,3,5-Trimethylbenzene	**<1.6**	ug/m3	8.7	1.6	8.75		03/29/17 02:01	108-67-8	
Vinyl chloride	**<1.7**	ug/m3	2.3	1.7	8.75		03/29/17 02:01	75-01-4	
m&p-Xylene	**45.8**	ug/m3	15.5	6.9	8.75		03/29/17 02:01	179601-23-1	
o-Xylene	**<3.1**	ug/m3	7.7	3.1	8.75		03/29/17 02:01	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D
Report Date: 03-Apr-2017 15:14

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08734.D
Lab Smp Id: 10381335023
Inj Date : 29-MAR-2017 02:01
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 34
Dil Factor: 8.75000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	8.750	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	3.037	2.996	(0.542)	21029	0.61689	5.40	
5	Dichlorodifluoromethane	85	3.066	3.028	(0.548)	29279	0.23326	2.04(H)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.555	3.539	(0.635)	9584	0.63386	5.55	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	3.610	3.626	(0.645)	23623	0.28682	2.51	
16	Trichlorofluoromethane	101	3.661	3.658	(0.654)	27612	0.31425	2.75	
17	Acrolein	56	3.668	3.674	(0.655)	119270	8.63159	75.5(M)	
18	Acetone	43	3.722	3.713	(0.665)	49724	0.83463	7.30	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	3.896	3.896	(0.696)	8206	0.13266	1.16(QM)	
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.941	3.938	(0.704)	353893	5.01570	43.9	
23	Methyl Acetate	43	3.954	3.954	(0.706)	142138	1.45084	12.7(QM)	
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D
Report Date: 03-Apr-2017 15:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.478	(0.800)	831465	9.71998	9.72	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.706	4.722	(0.840)	574169	15.1798	133(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	2280331	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.976	5.986	(1.067)	44654	0.64691	5.66	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.069	7.073	(1.262)	1855289	9.65075	9.65	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.143	7.150	(1.276)	592114	3.69951	32.4	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	164828	1.95298	17.1	
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1288681	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.928	8.931	(1.034)	30452	0.16123	1.41	
	70 m&p-Xylene	91	9.073	9.079	(1.051)	171287	1.18696	10.4	
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D
Report Date: 03-Apr-2017 15:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	515046	8.41909	8.42	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						(D)
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D
Report Date: 03-Apr-2017 15:14

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08734.D
Lab Smp Id: 10381335023
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

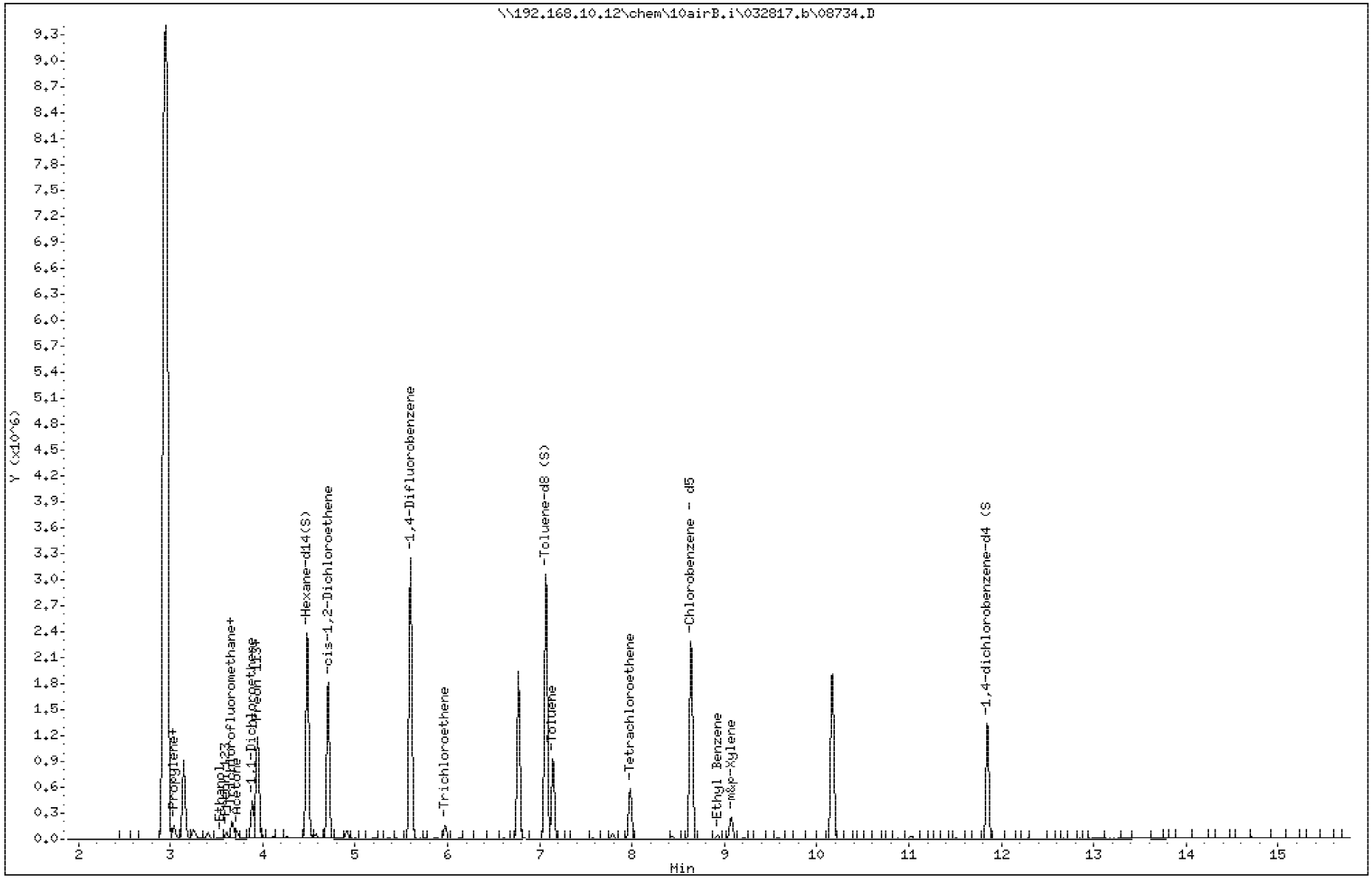
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2280331	-19.47
67 Chlorobenzene - d	1804482	1082689	2526275	1288681	-28.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D
Date : 29-MAR-2017 02:01
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

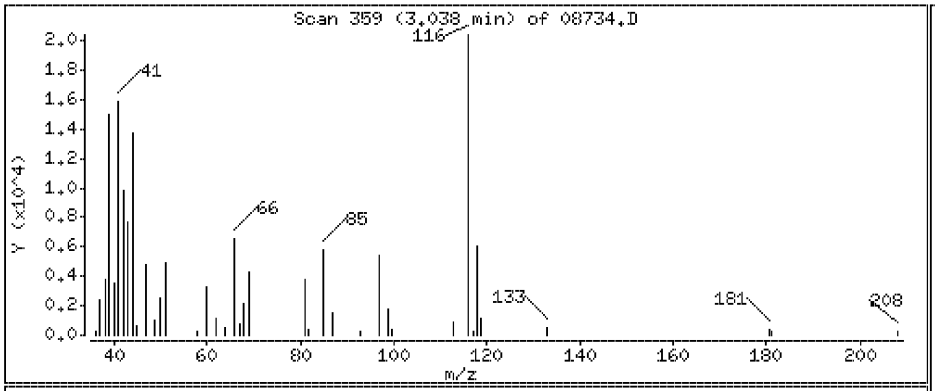
Operator: NCK

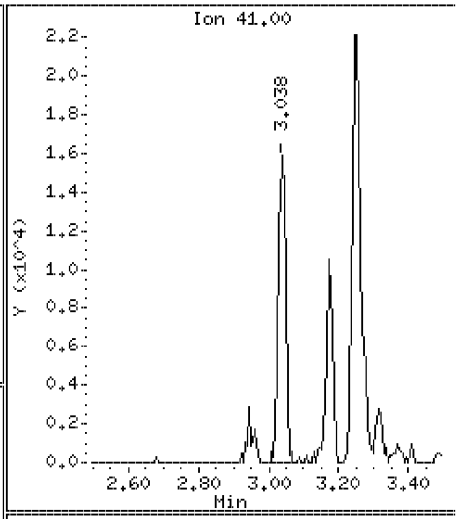
Column phase: J&W DB-5

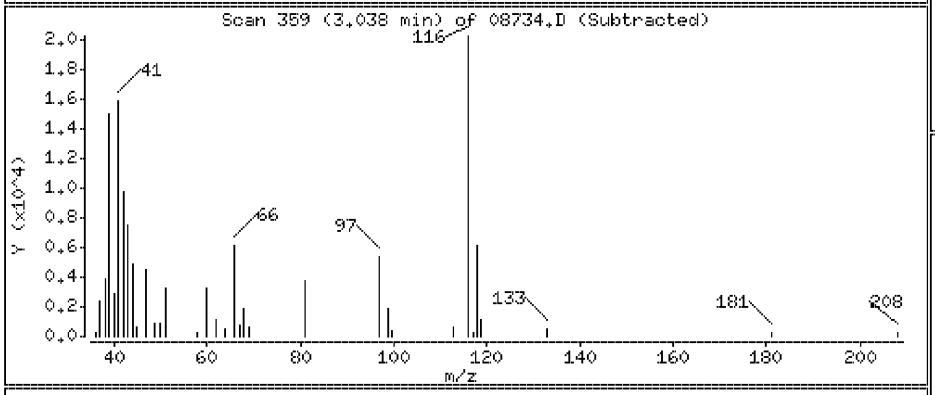
Column diameter: 0.32

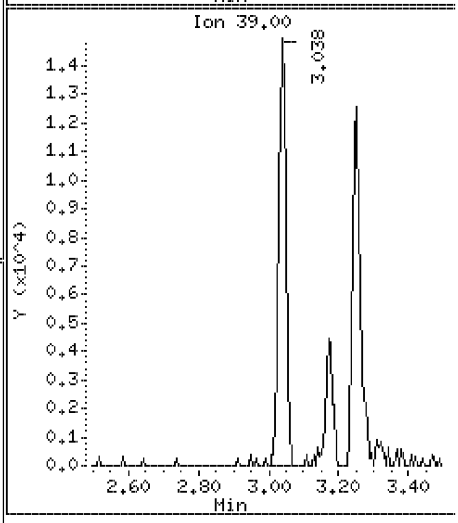
4 Propylene

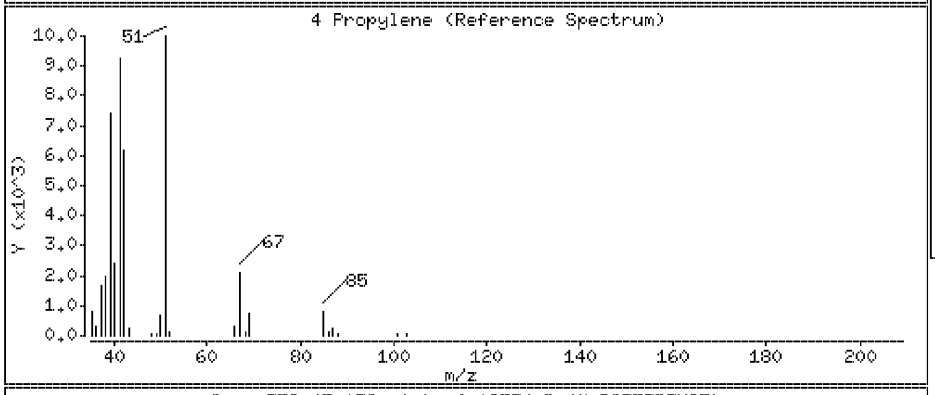
Concentration: 5.40 ppbv

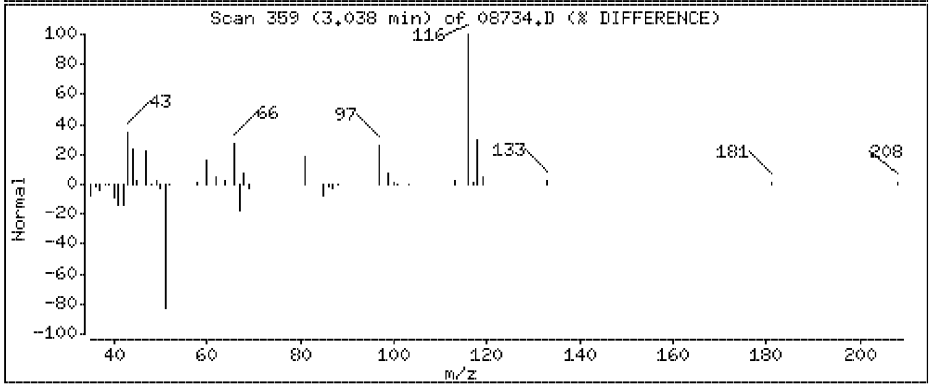












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

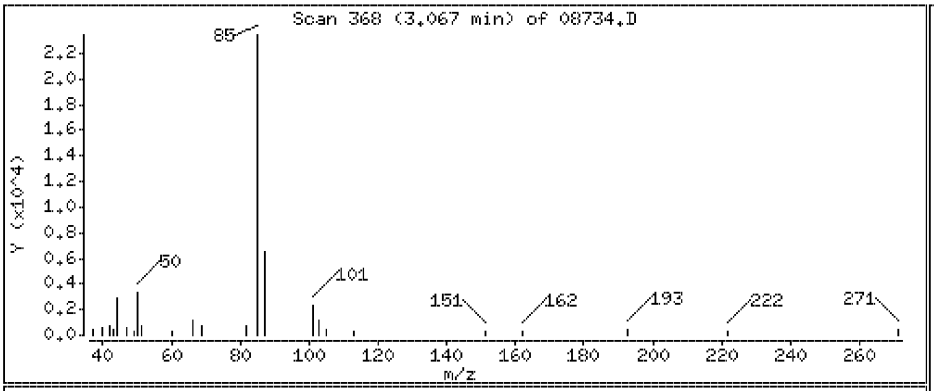
Operator: NCK

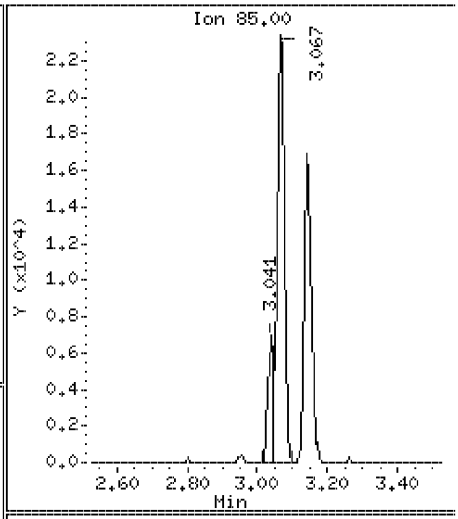
Column phase: J&W DB-5

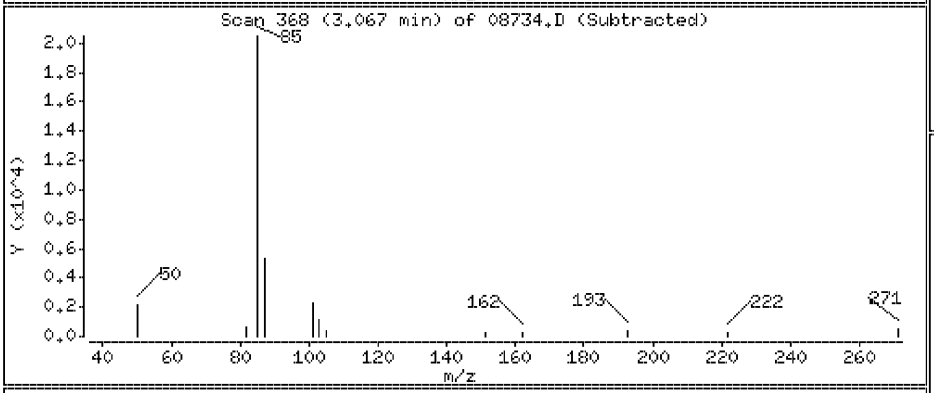
Column diameter: 0.32

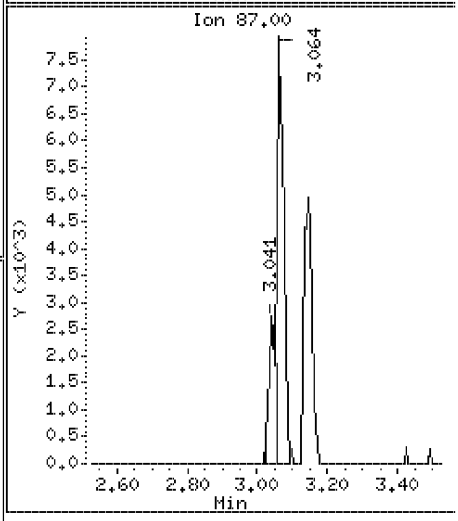
5 Dichlorodifluoromethane

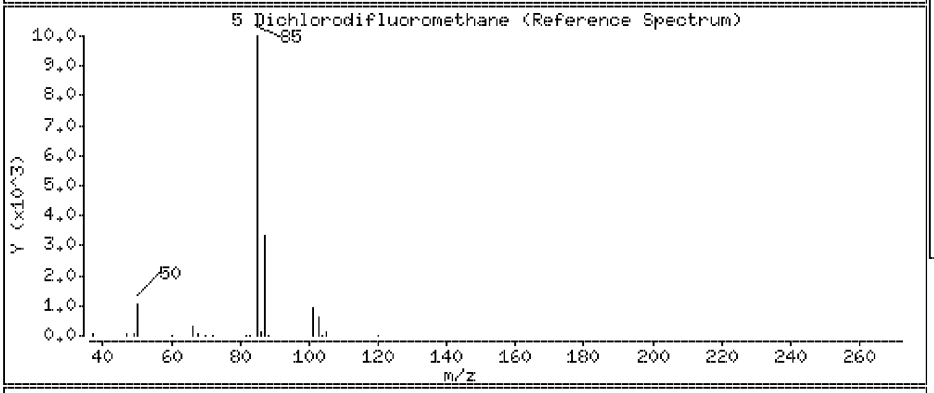
Concentration: 2.04 ppbv

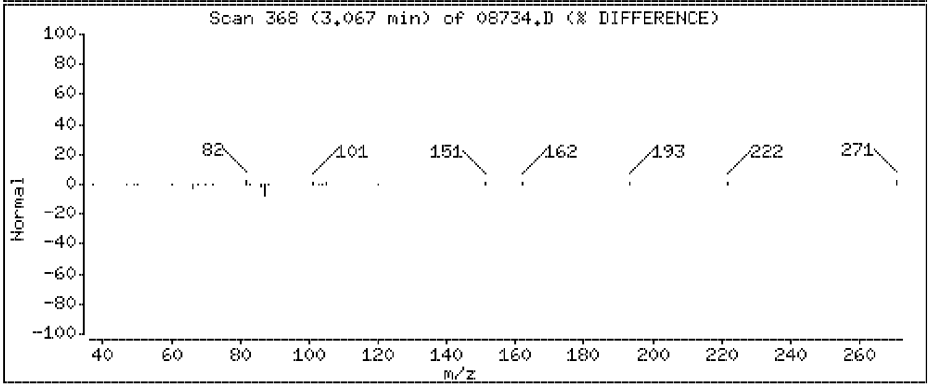












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

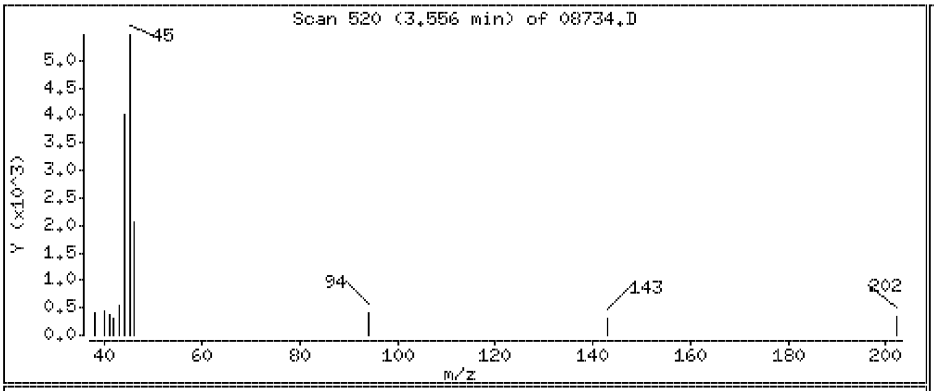
Operator: NCK

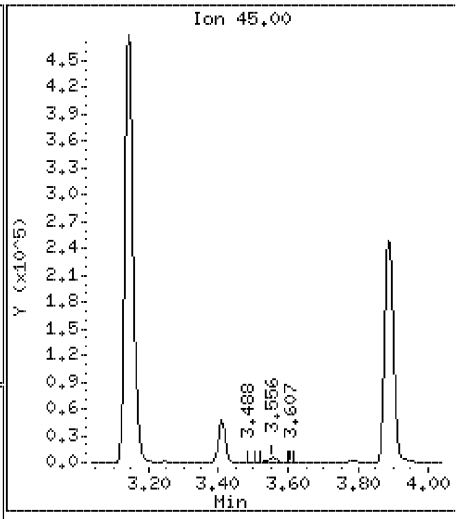
Column phase: J&W DB-5

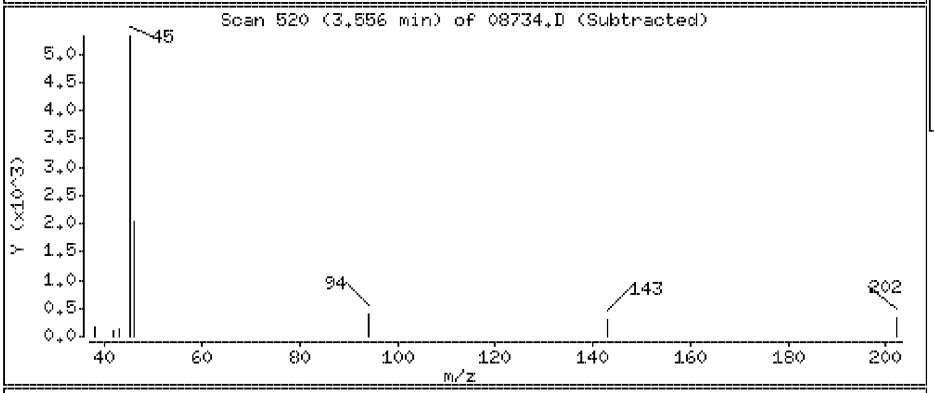
Column diameter: 0.32

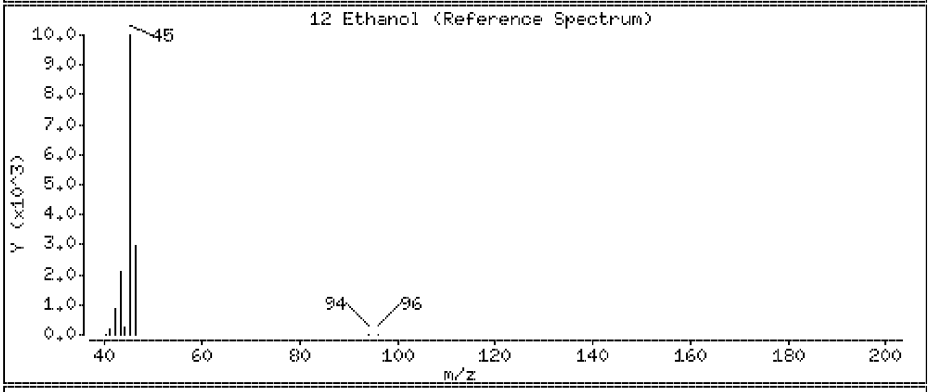
12 Ethanol

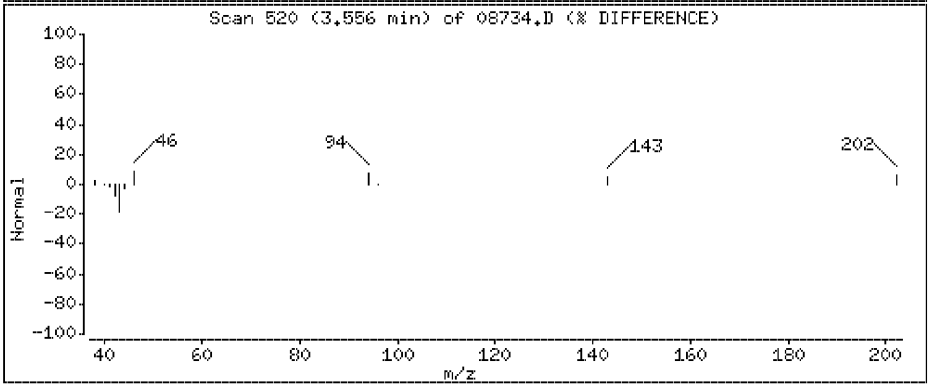
Concentration: 5.55 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

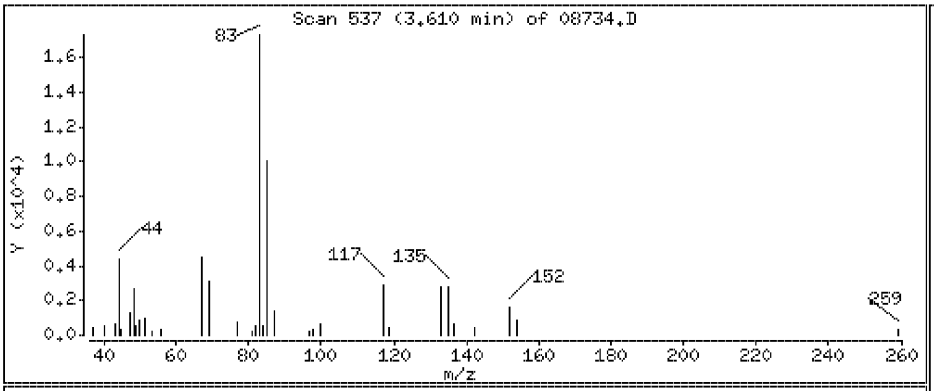
Operator: NCK

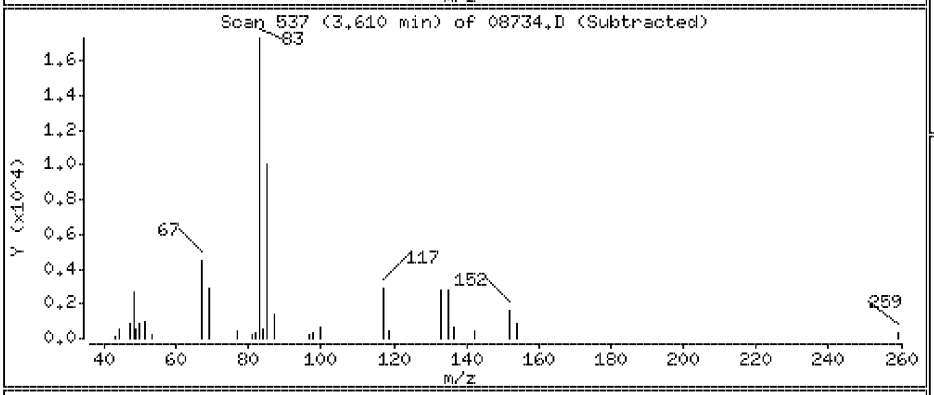
Column phase: J&W DB-5

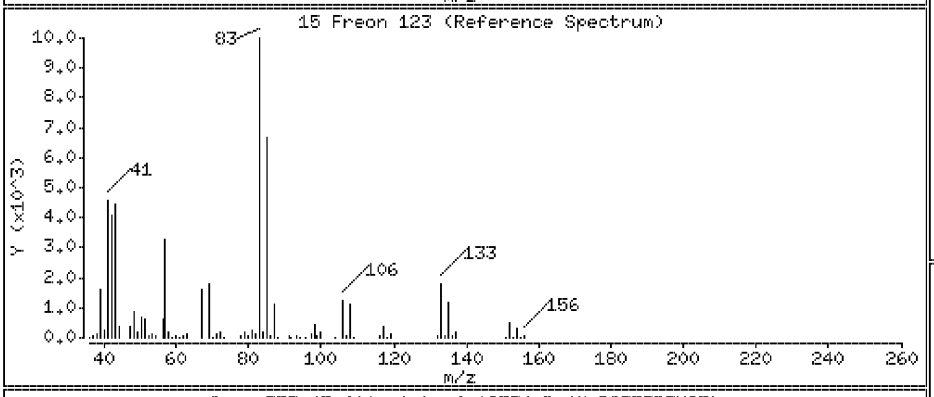
Column diameter: 0.32

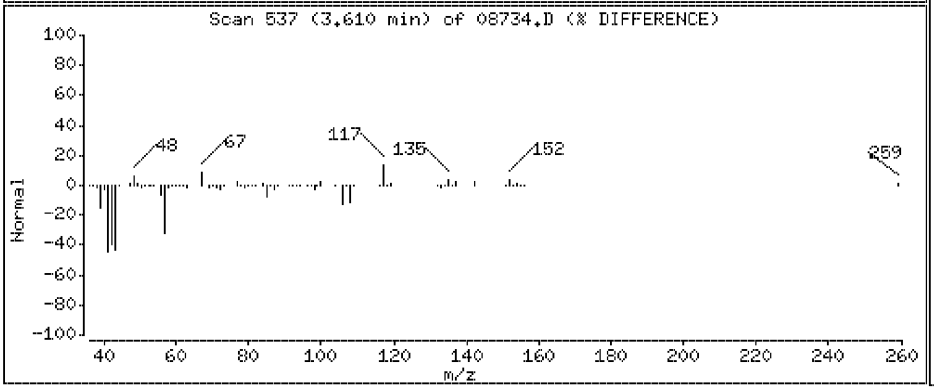
15 Freon 123

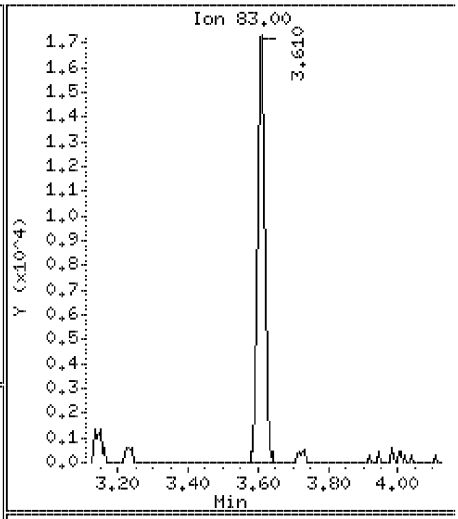
Concentration: 2.51 ppbv

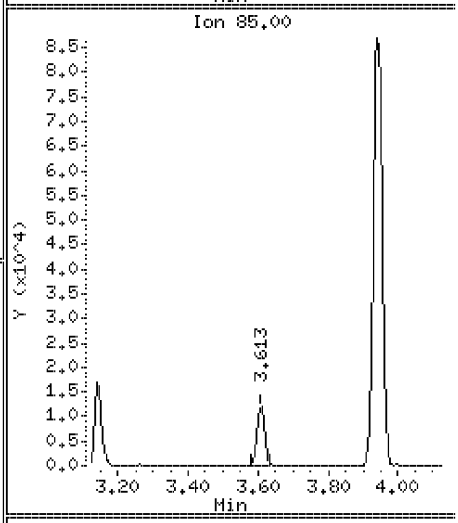


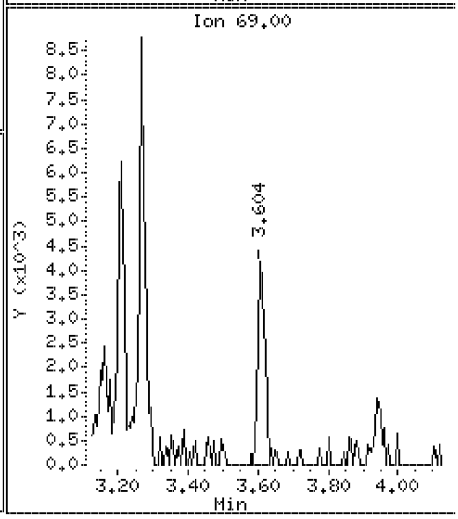












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

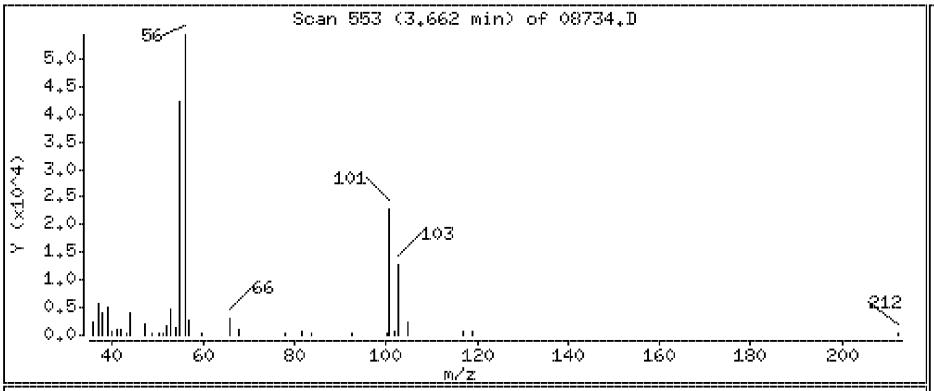
Operator: NCK

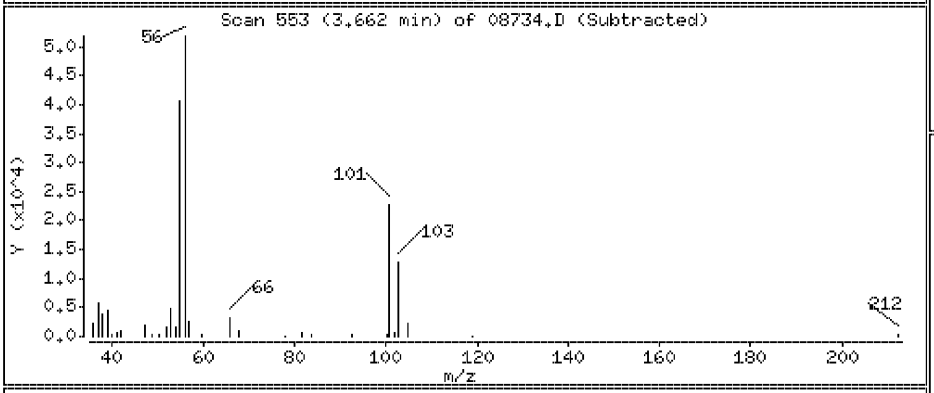
Column phase: J&W DB-5

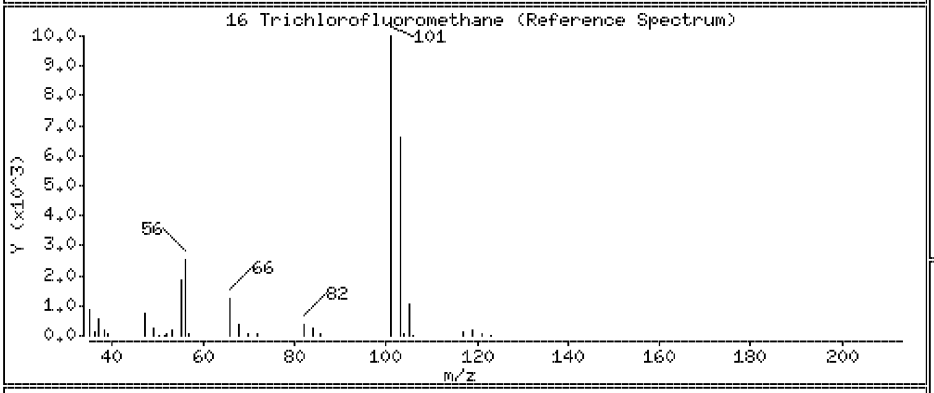
Column diameter: 0.32

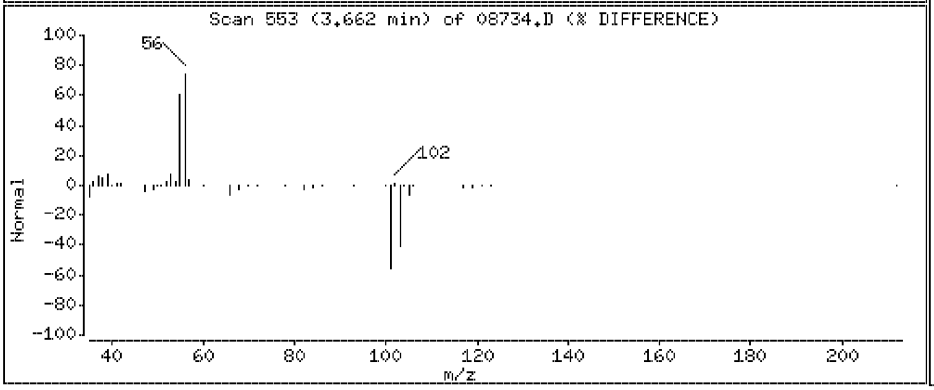
16 Trichlorofluoromethane

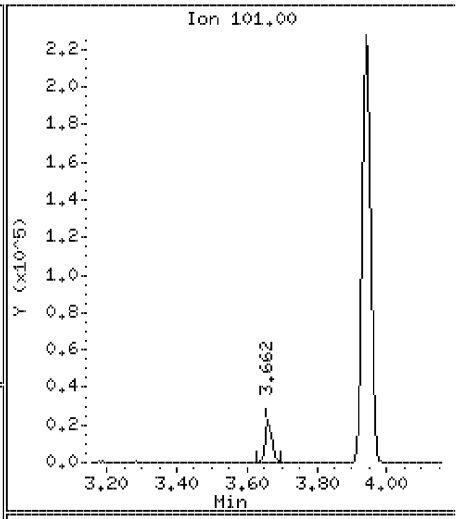
Concentration: 2.75 ppbv

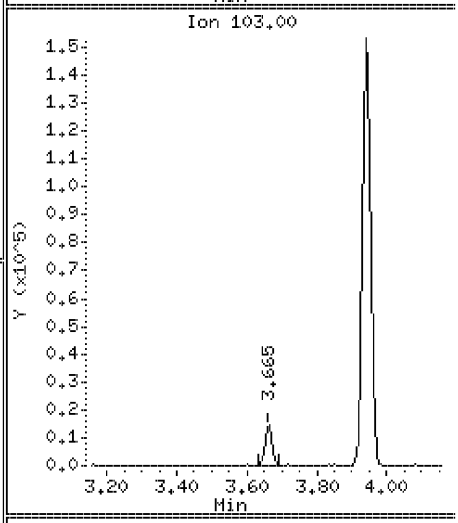


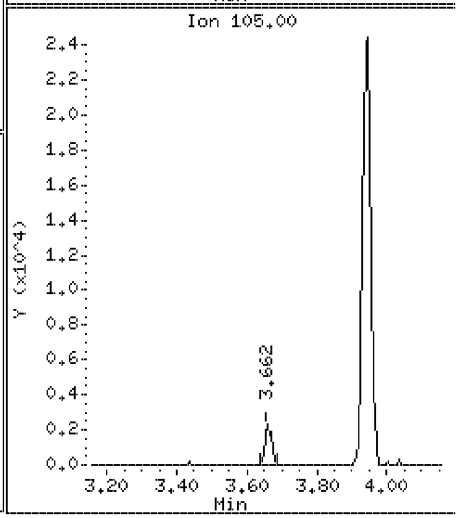












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

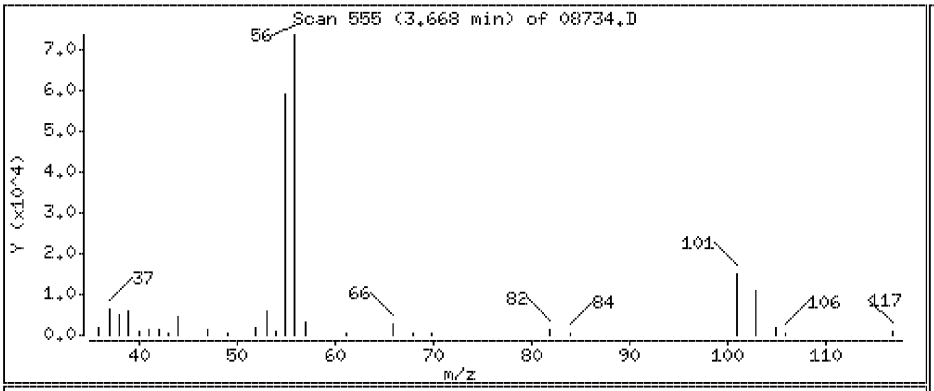
Operator: NCK

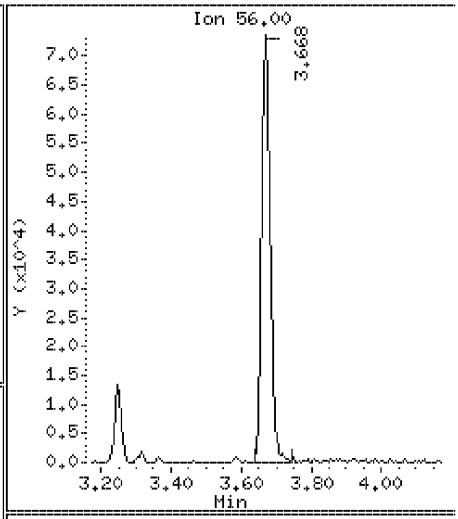
Column phase: J&W DB-5

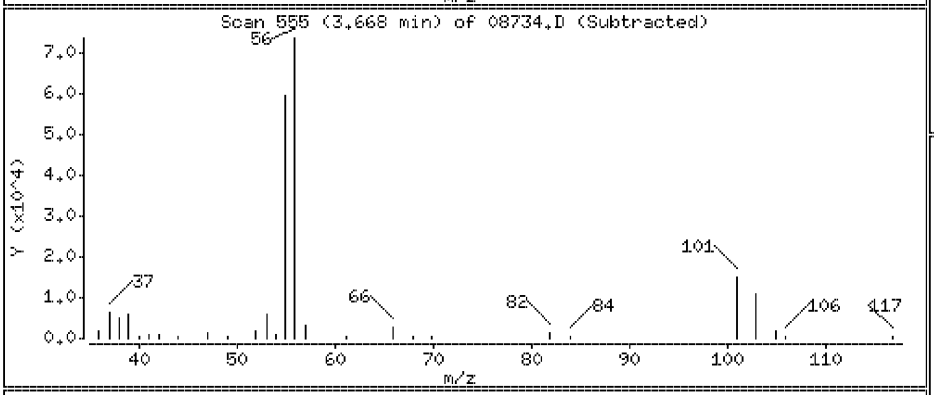
Column diameter: 0.32

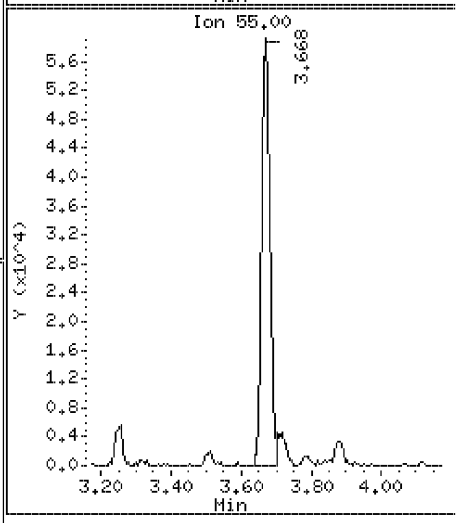
17 Acrolein

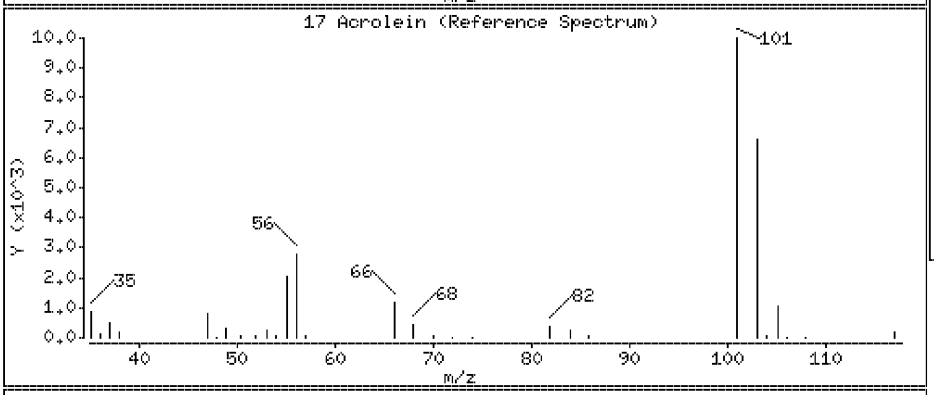
Concentration: 75.5 ppbv

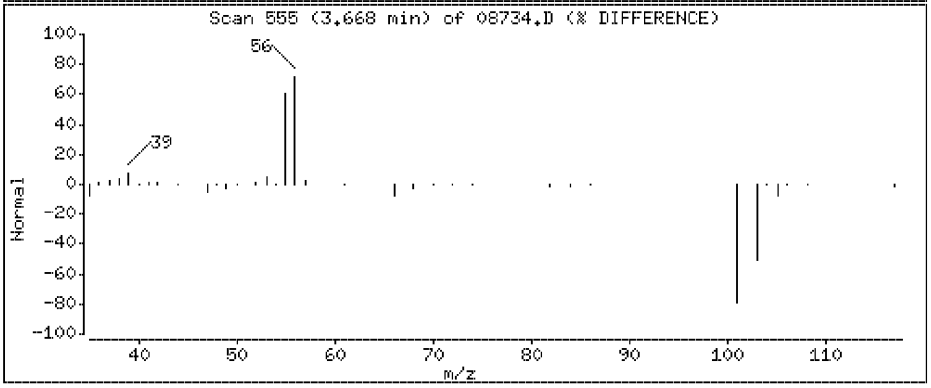












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

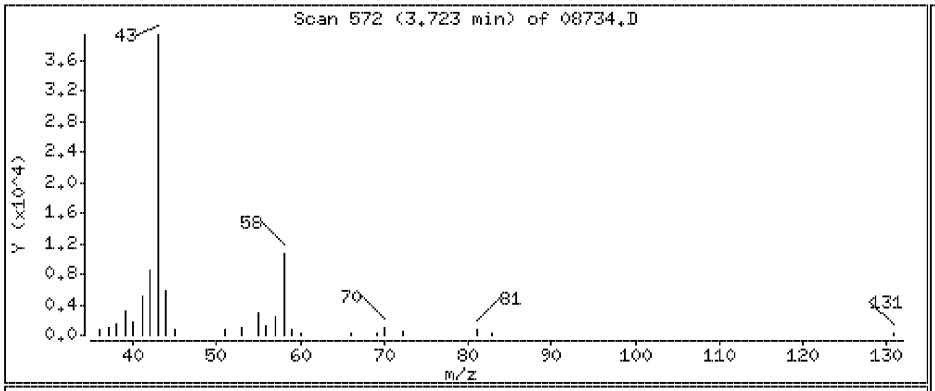
Operator: NCK

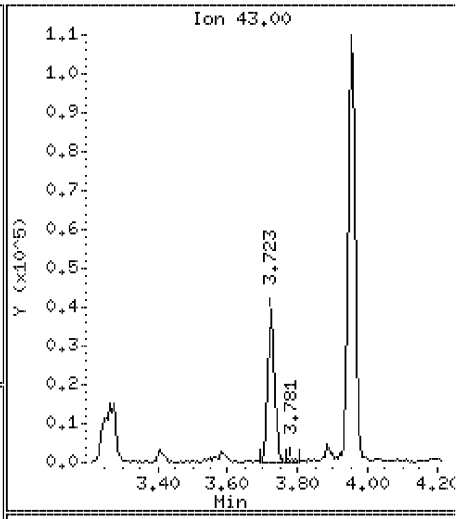
Column phase: J&W DB-5

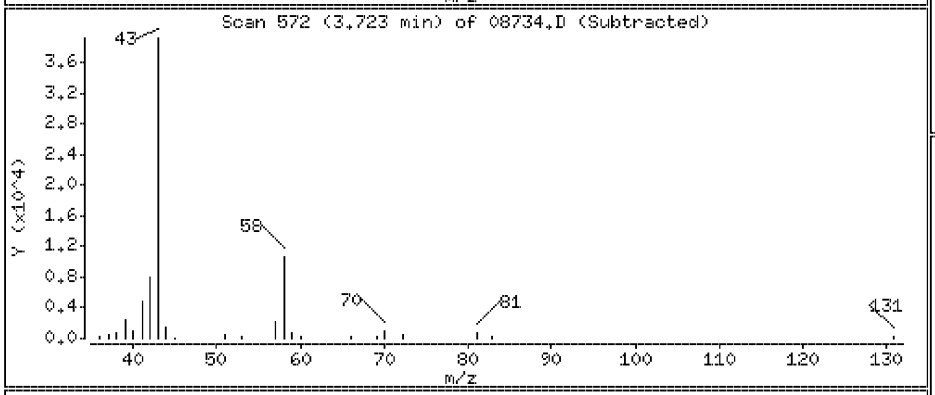
Column diameter: 0.32

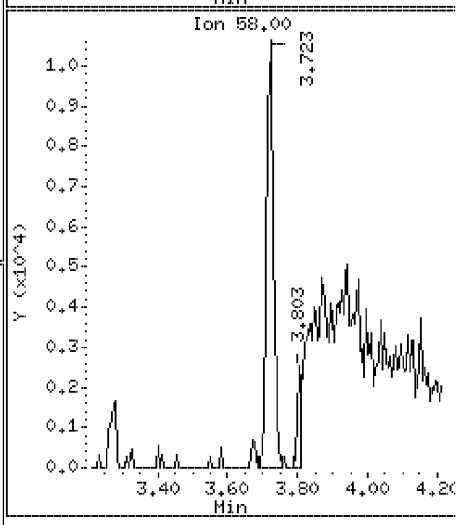
18 Acetone

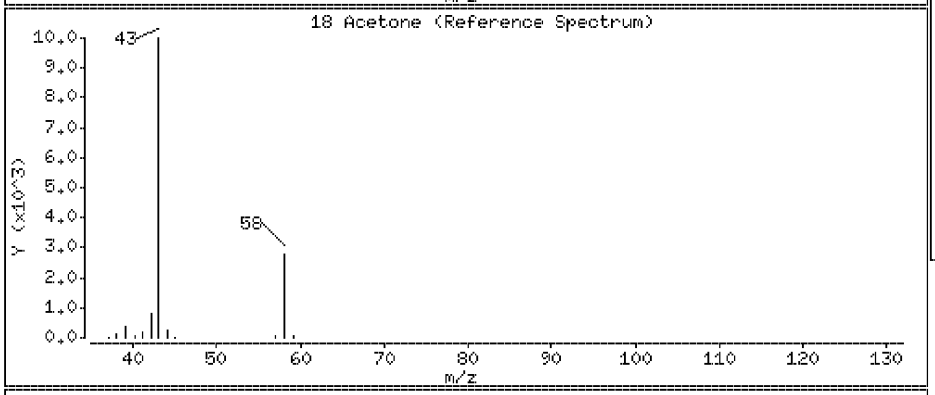
Concentration: 7.30 ppbv

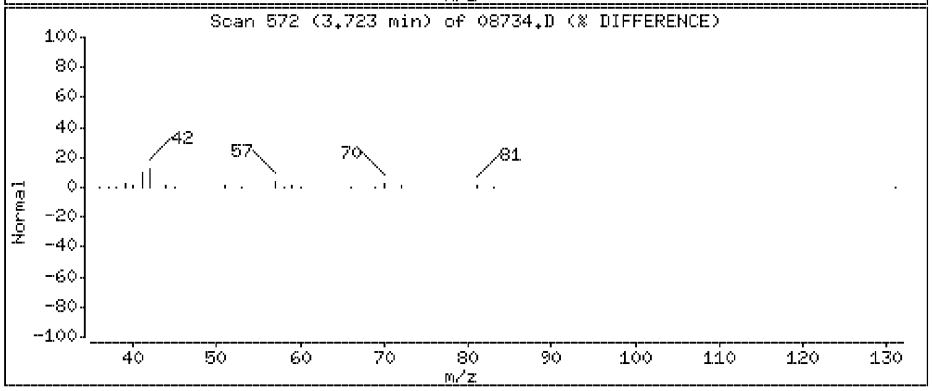












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

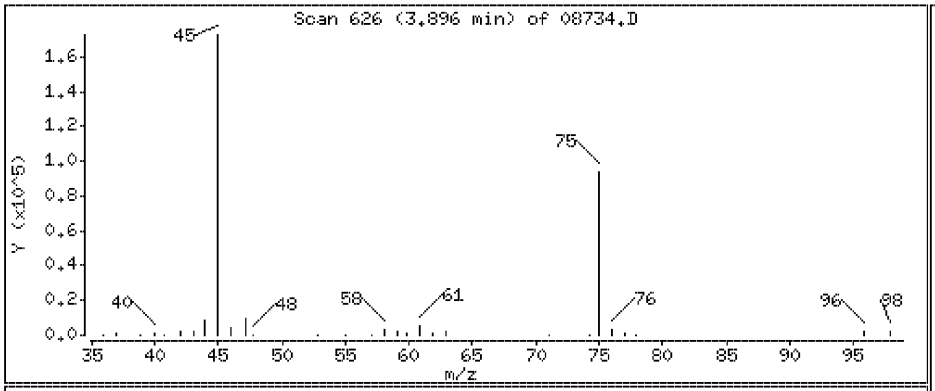
Operator: NCK

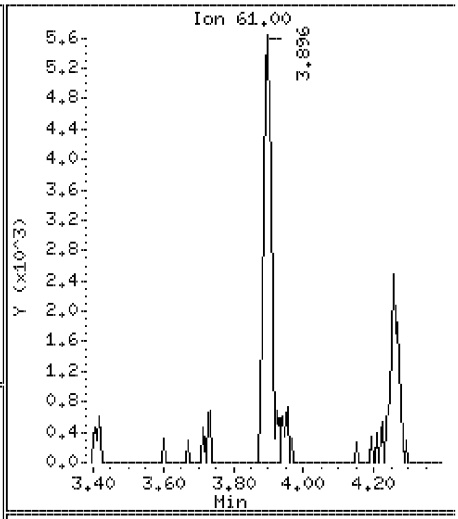
Column phase: J&W DB-5

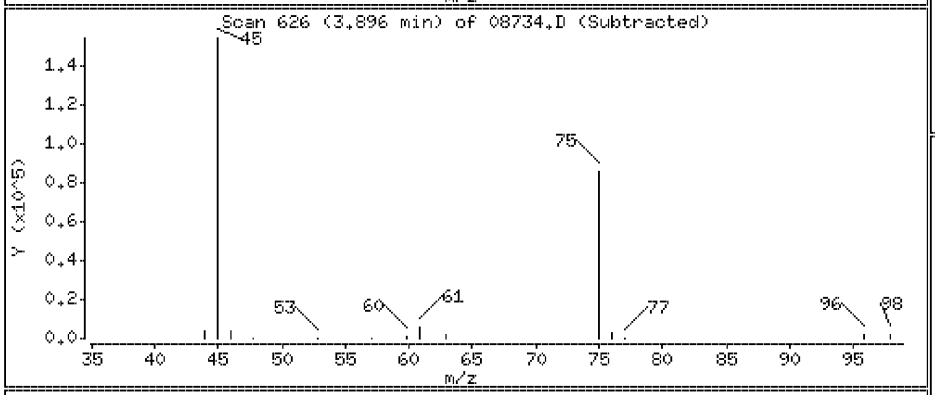
Column diameter: 0.32

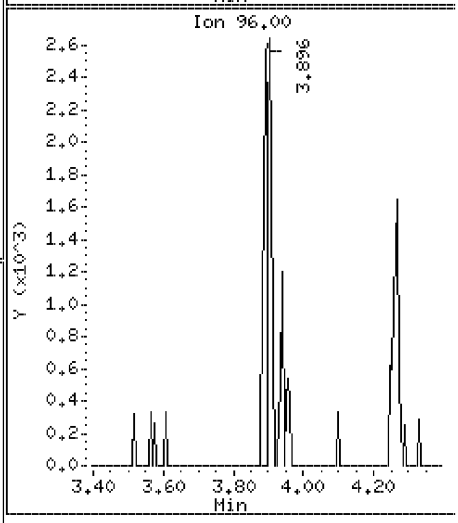
20 1,1-Dichloroethene

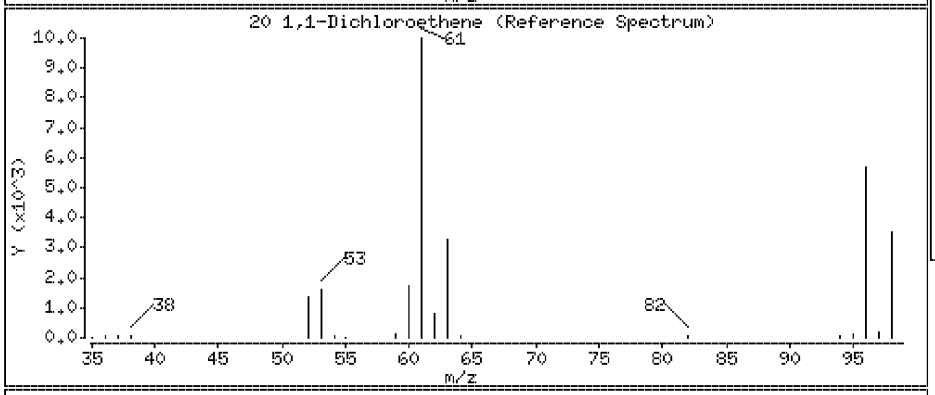
Concentration: 1.16 ppbv

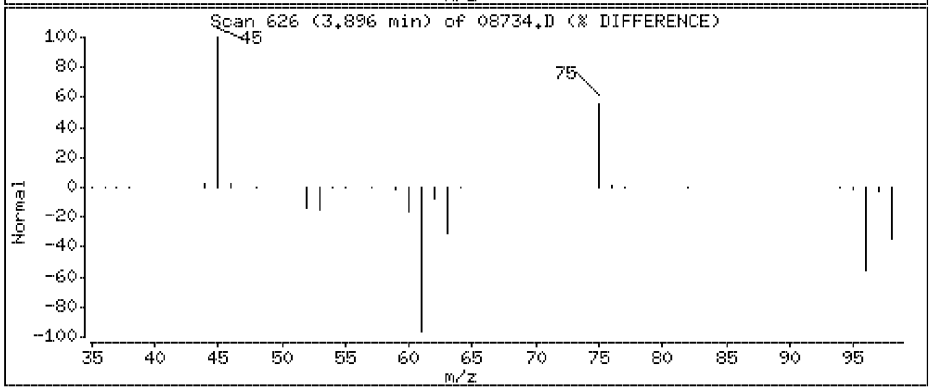












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

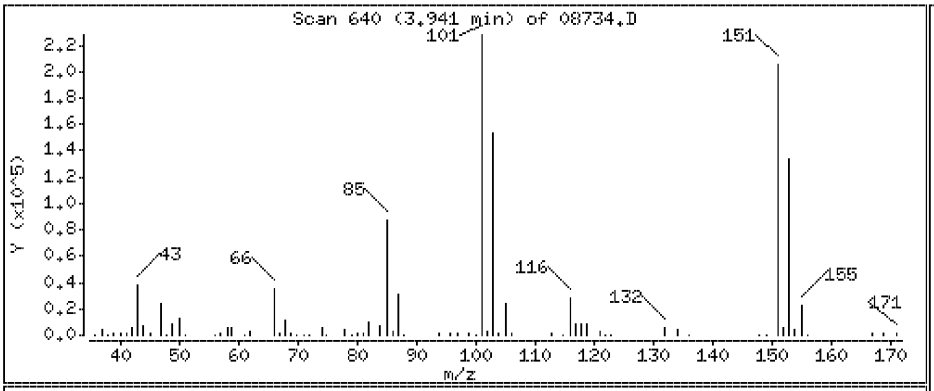
Operator: NCK

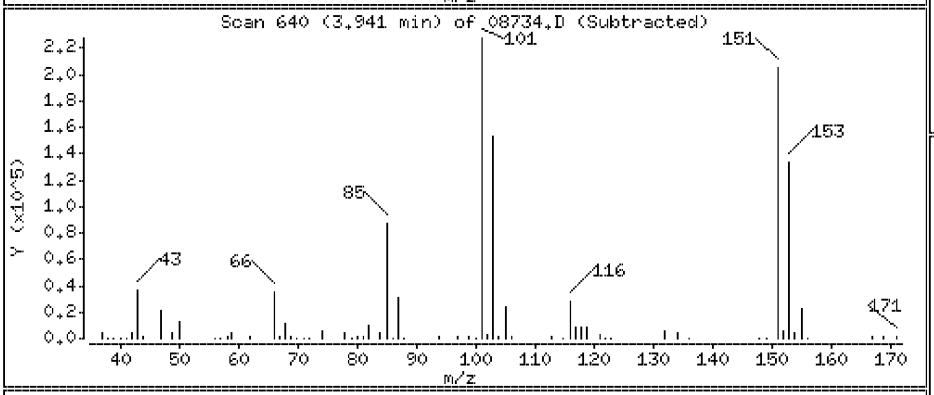
Column phase: J&W DB-5

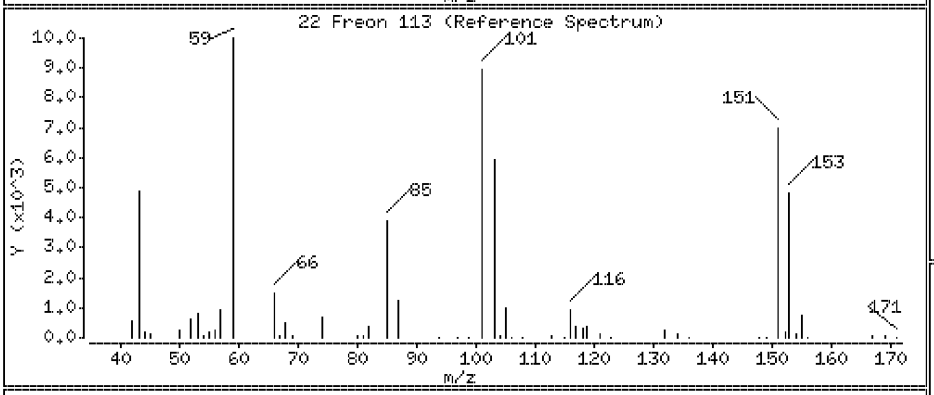
Column diameter: 0.32

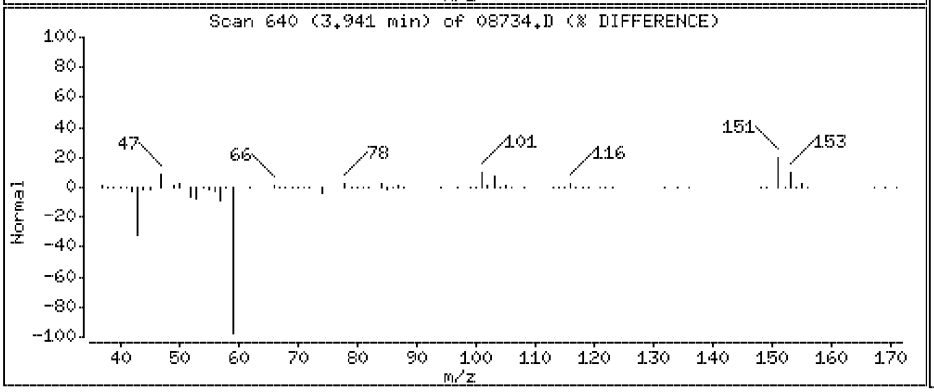
22 Freon 113

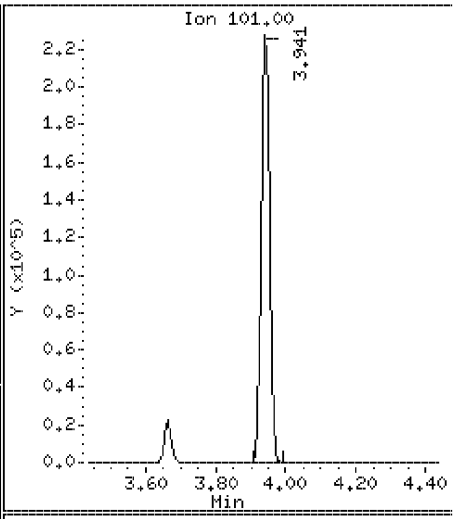
Concentration: 43.9 ppbv

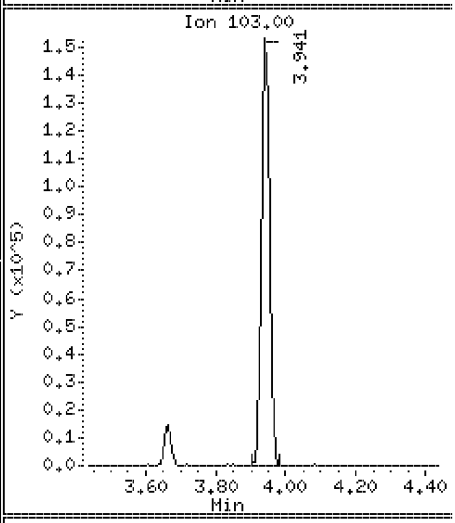


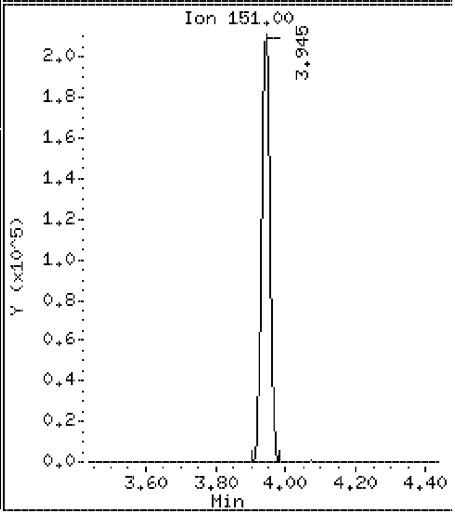












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

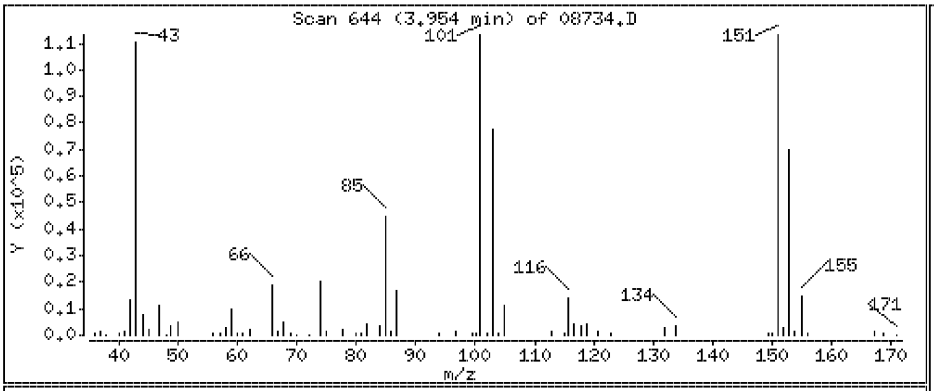
Operator: NCK

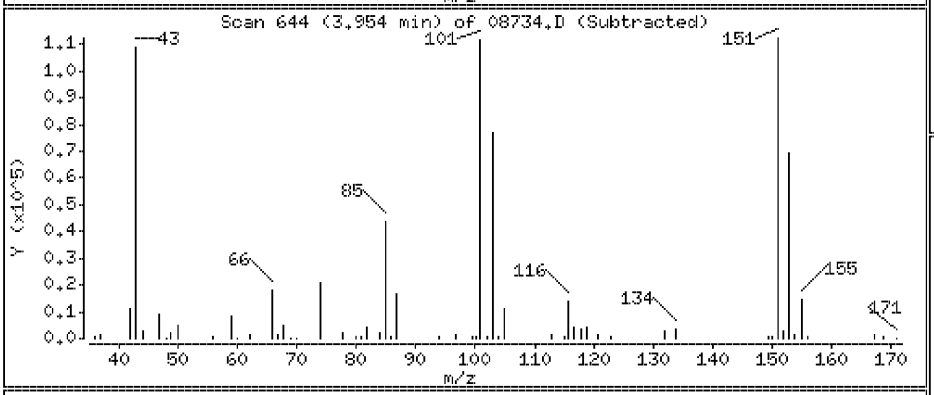
Column phase: J&W DB-5

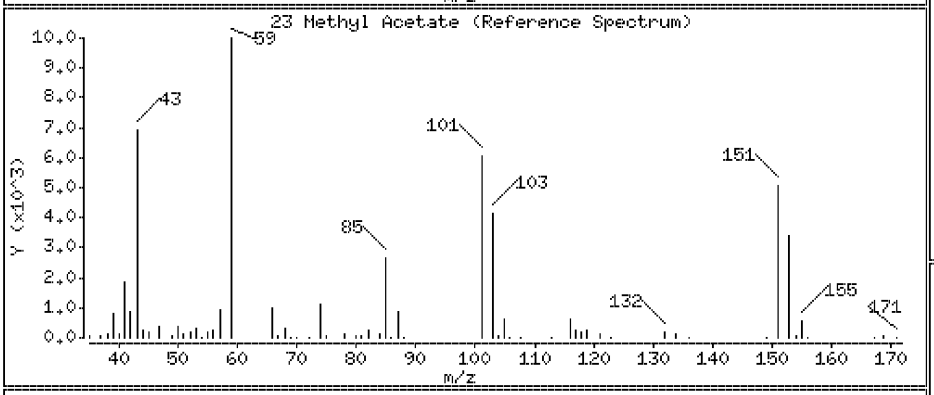
Column diameter: 0.32

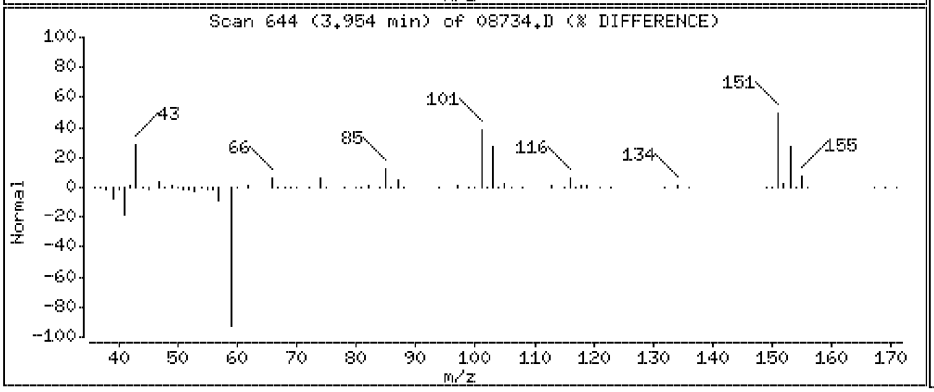
23 Methyl Acetate

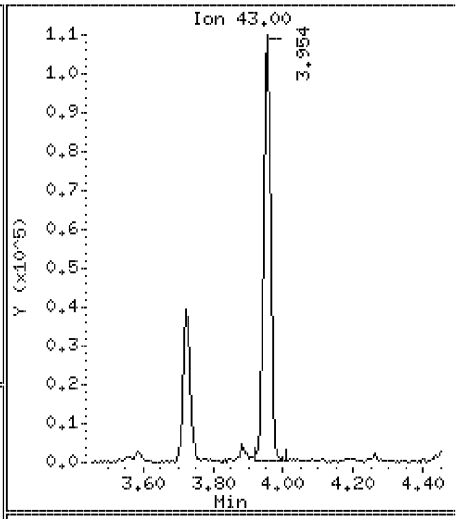
Concentration: 12.7 ppbv

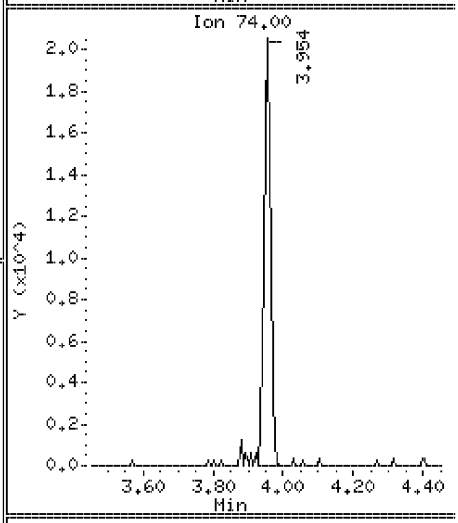


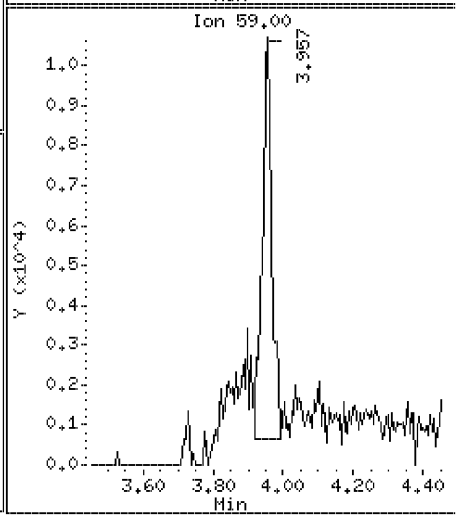












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

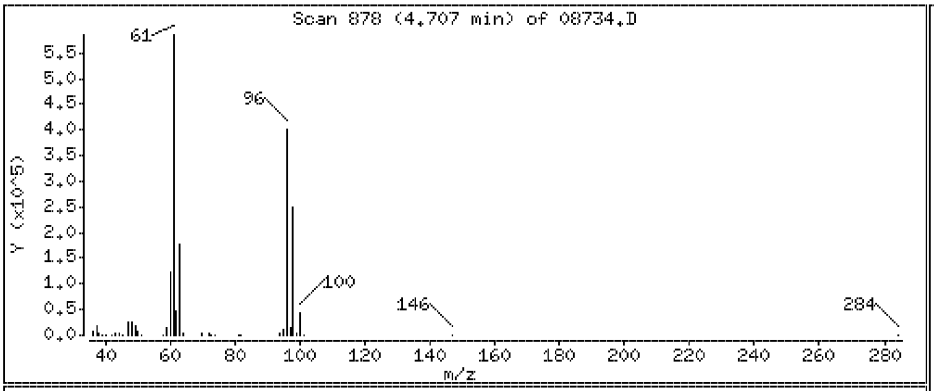
Operator: NCK

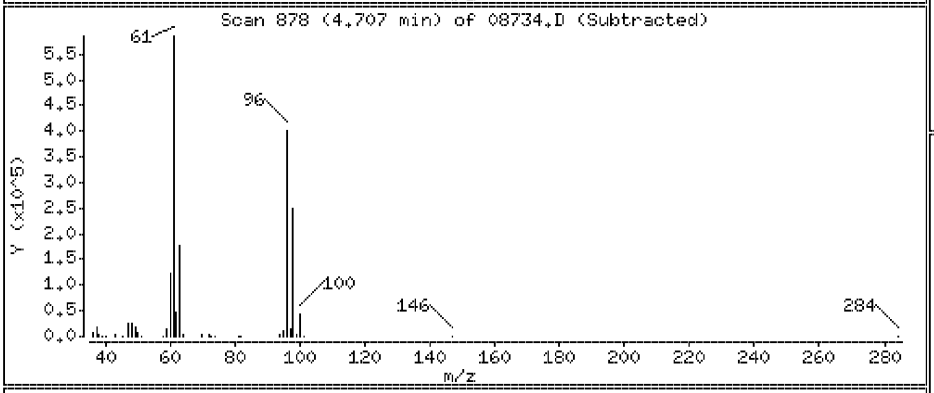
Column phase: J&W DB-5

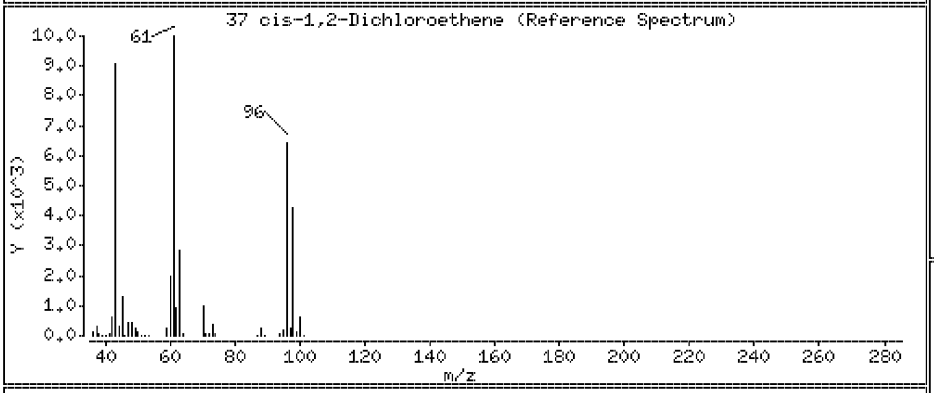
Column diameter: 0.32

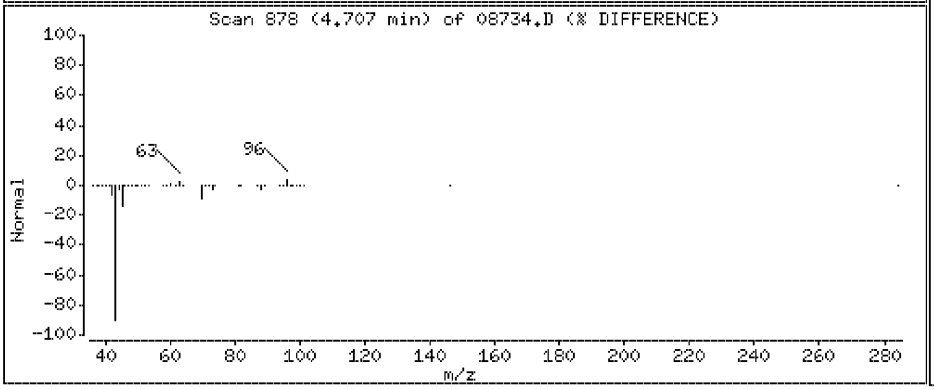
37 cis-1,2-Dichloroethene

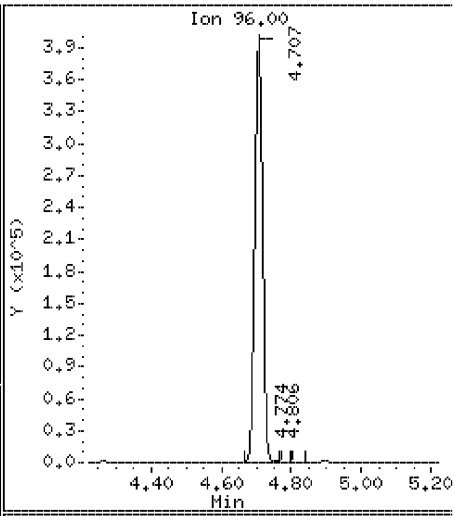
Concentration: 133 ppbv

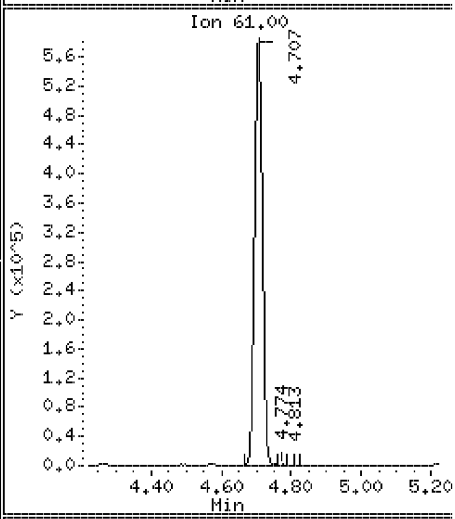


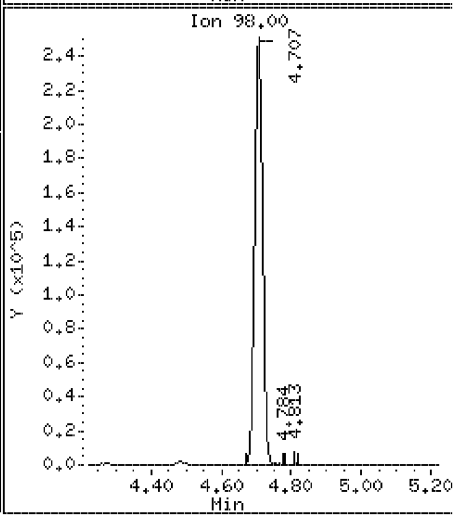












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

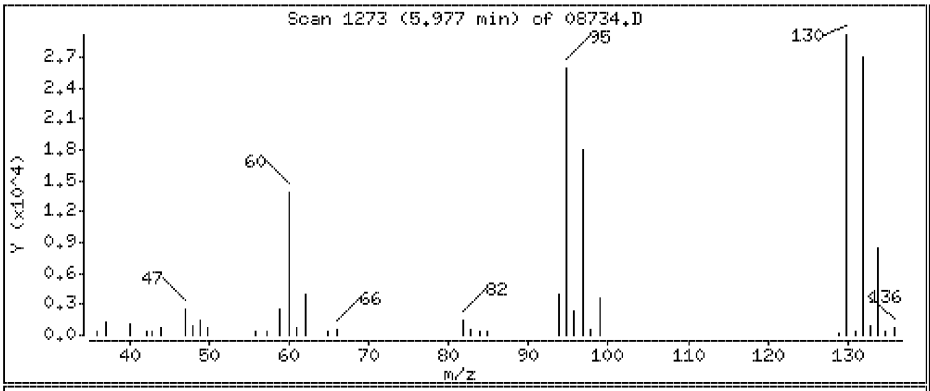
Operator: NCK

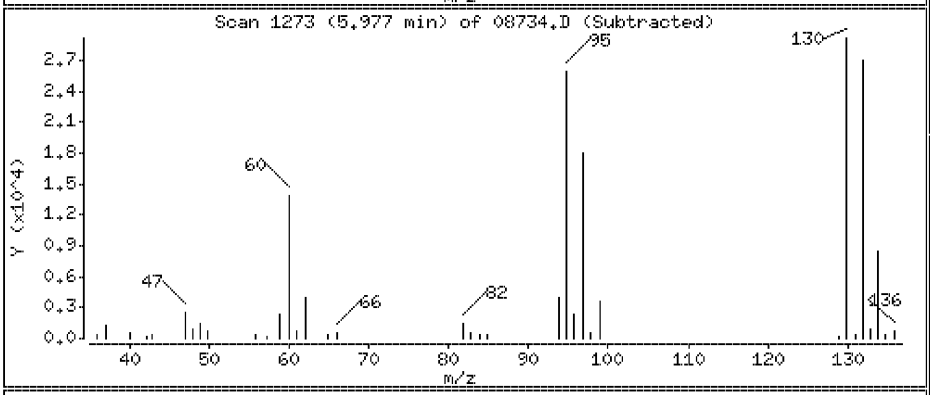
Column phase: J&W DB-5

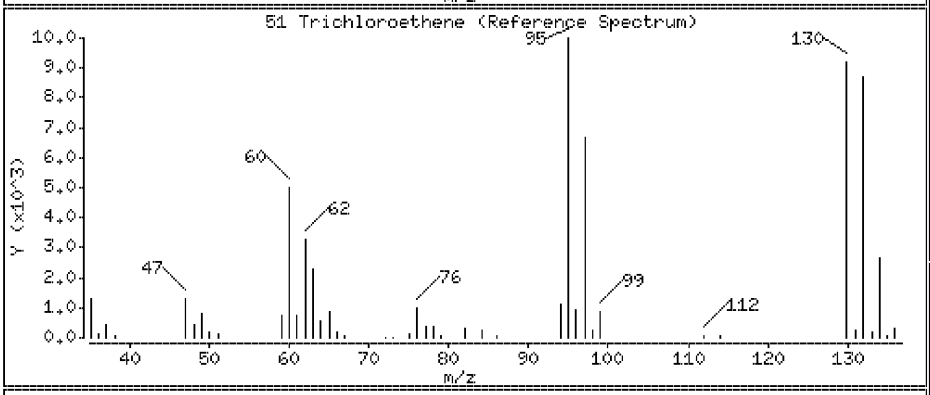
Column diameter: 0.32

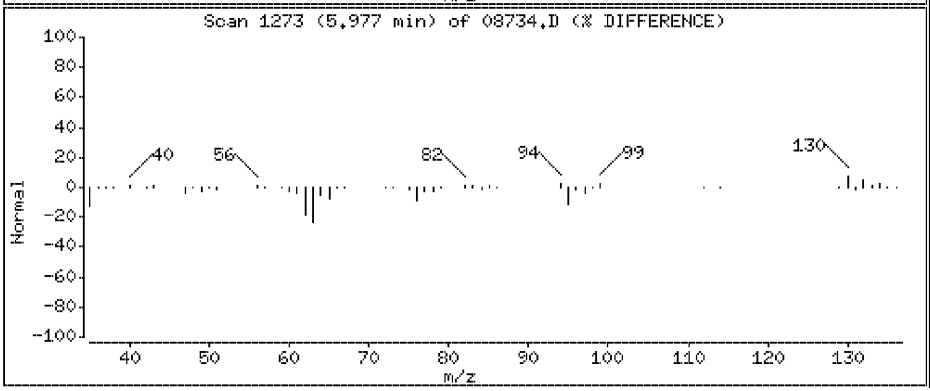
51 Trichloroethene

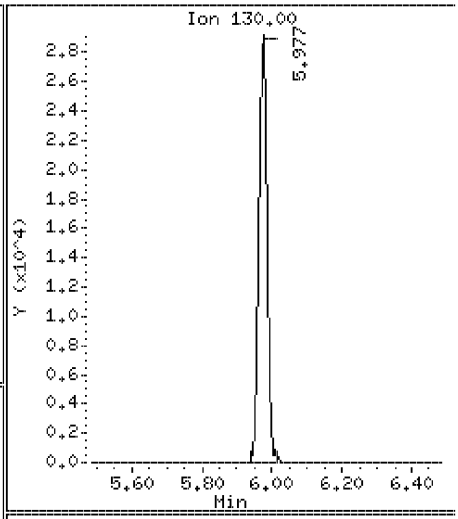
Concentration: 5.66 ppbv

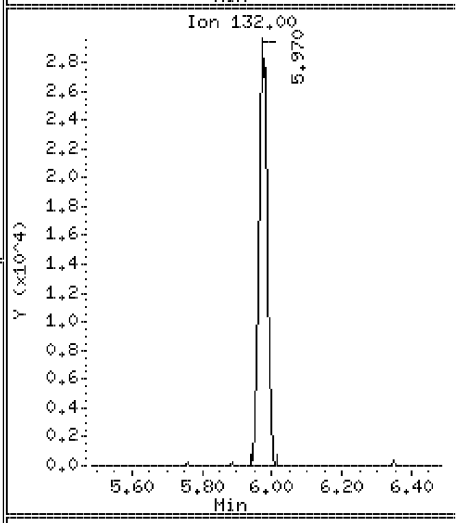


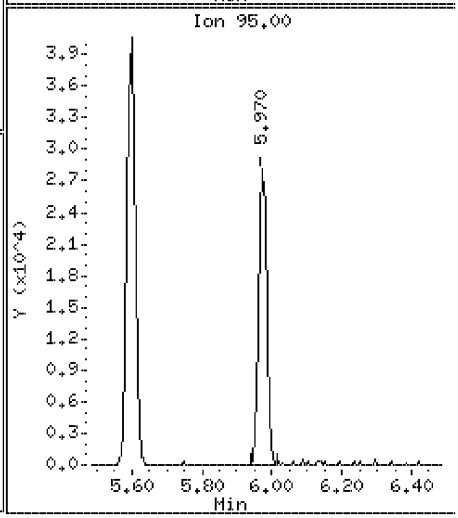












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

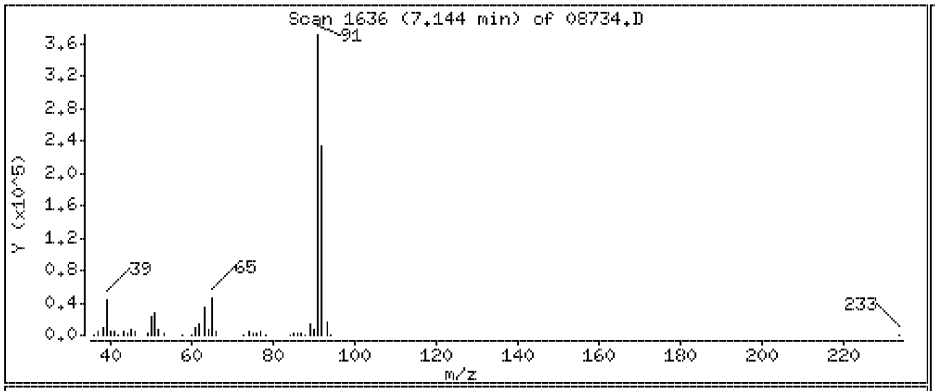
Operator: NCK

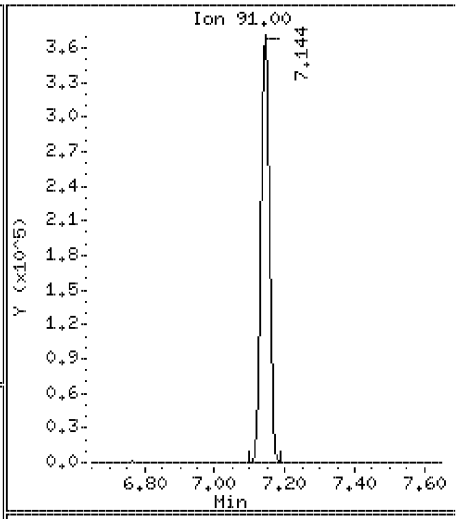
Column phase: J&W DB-5

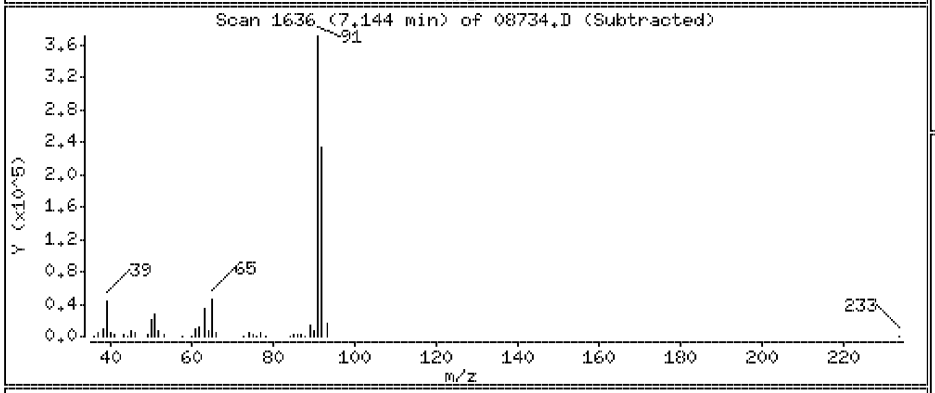
Column diameter: 0.32

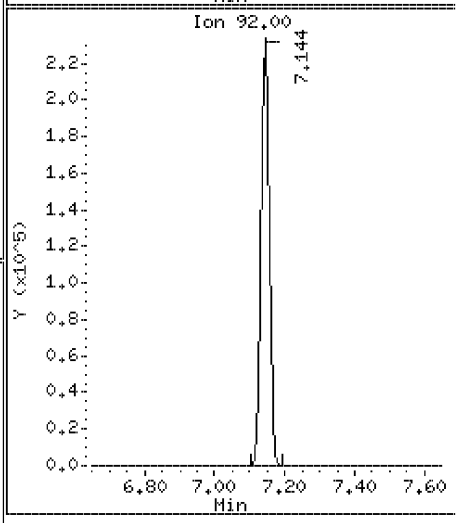
61 Toluene

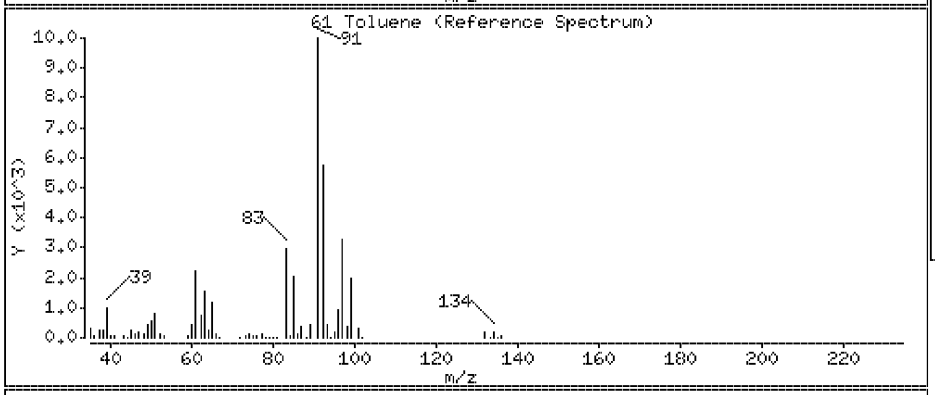
Concentration: 32.4 ppbv

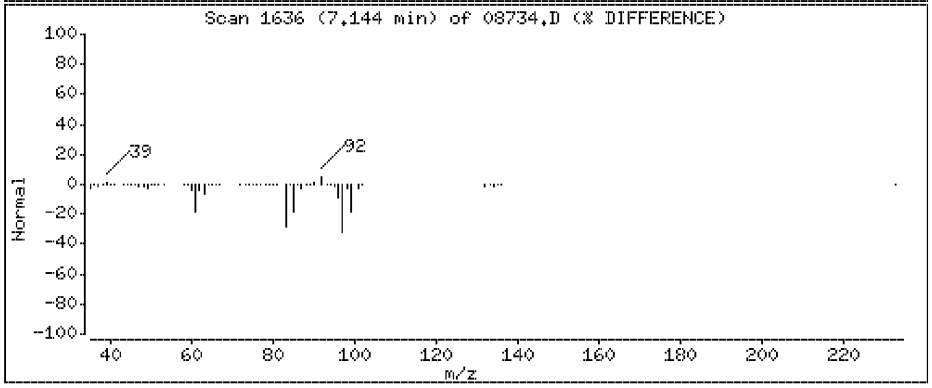












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

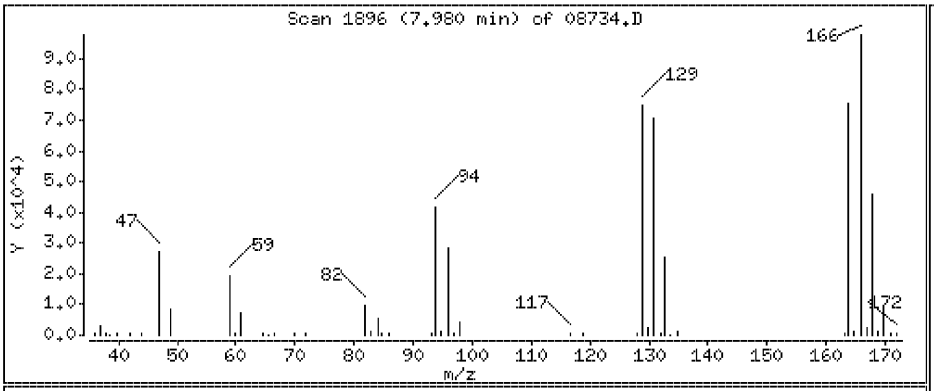
Operator: NCK

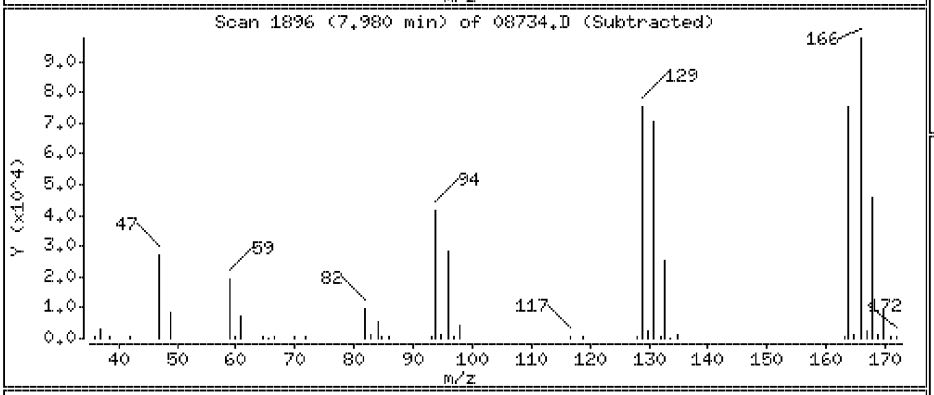
Column phase: J&W DB-5

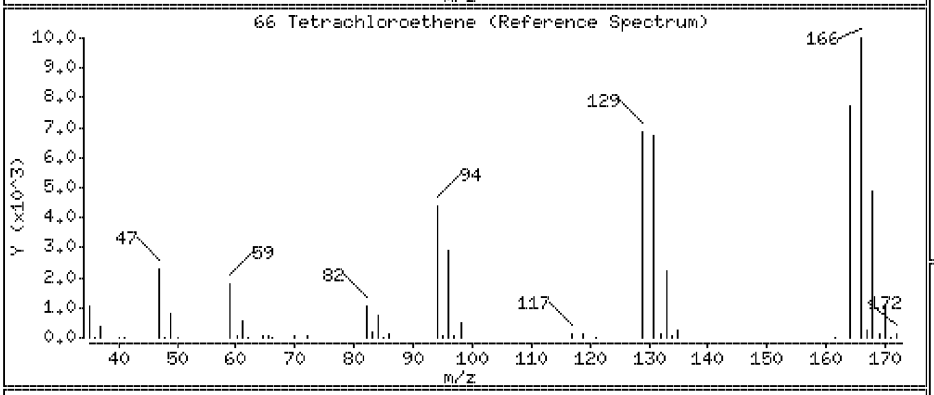
Column diameter: 0.32

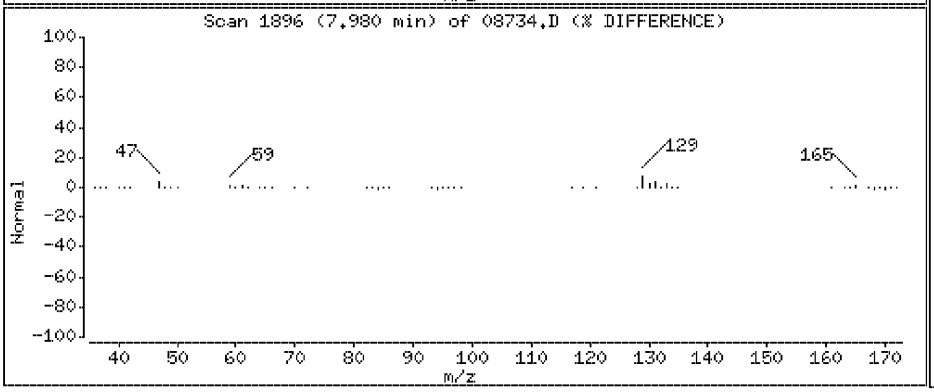
66 Tetrachloroethene

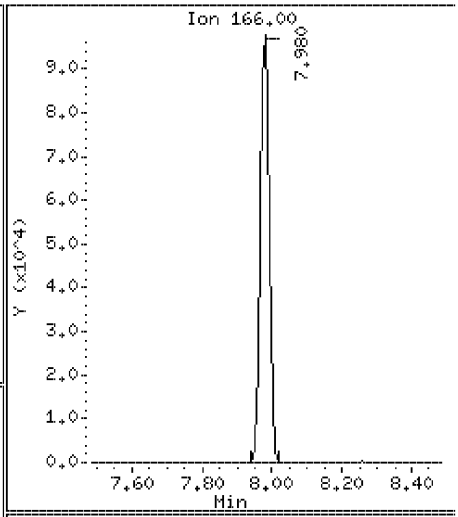
Concentration: 17.1 ppbv

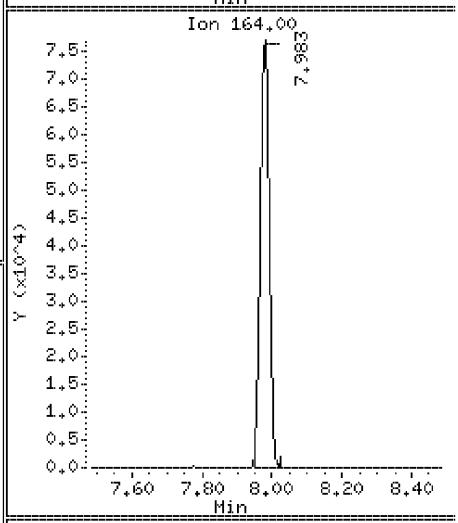


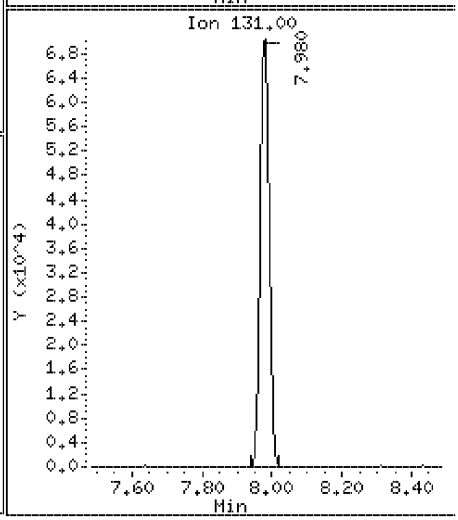












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

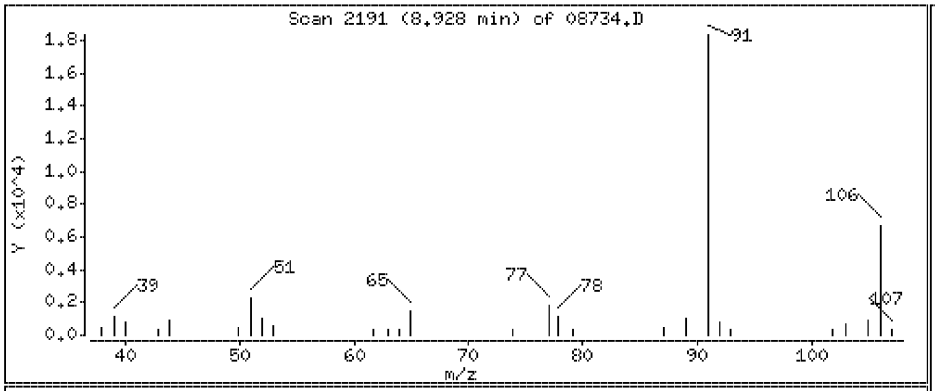
Operator: NCK

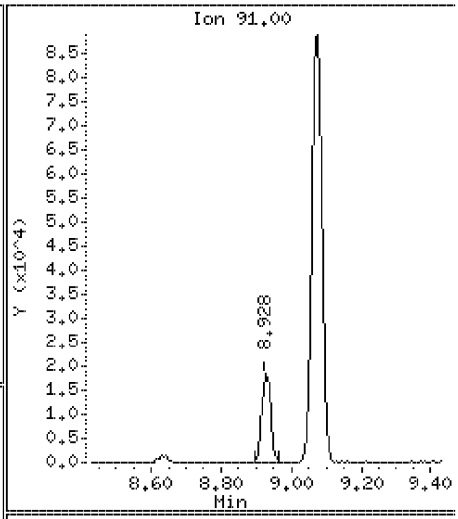
Column phase: J&W DB-5

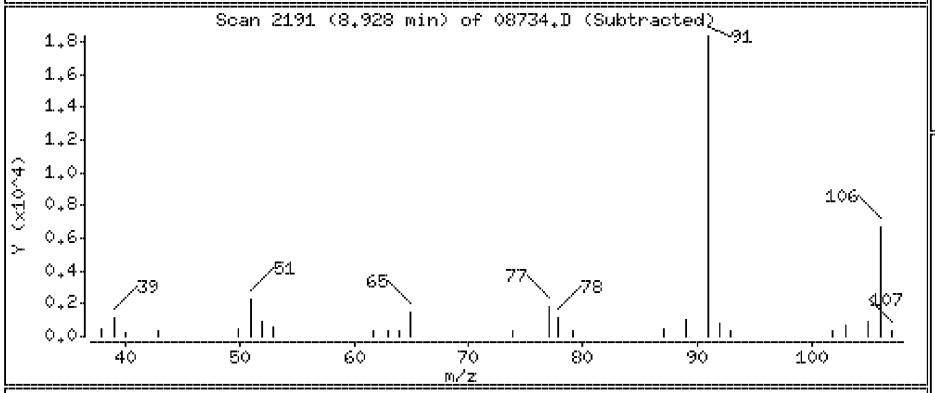
Column diameter: 0.32

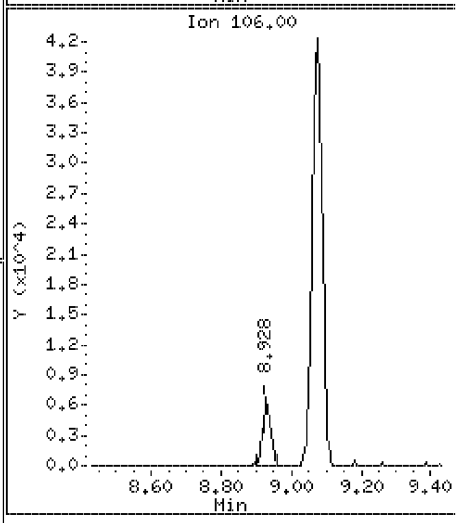
69 Ethyl Benzene

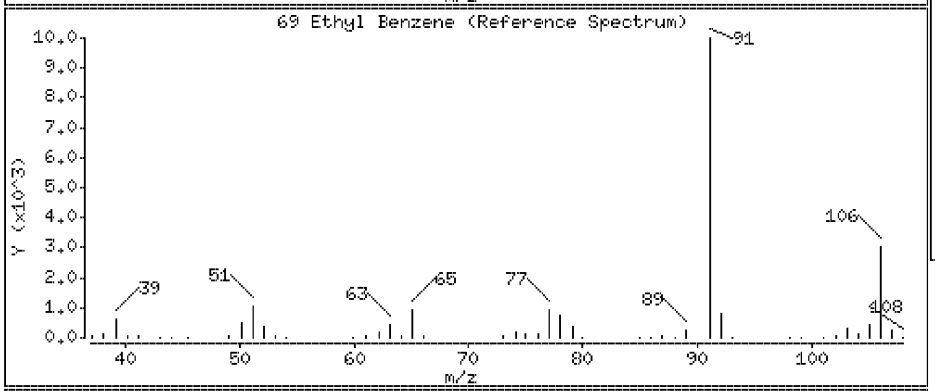
Concentration: 1.41 ppbv

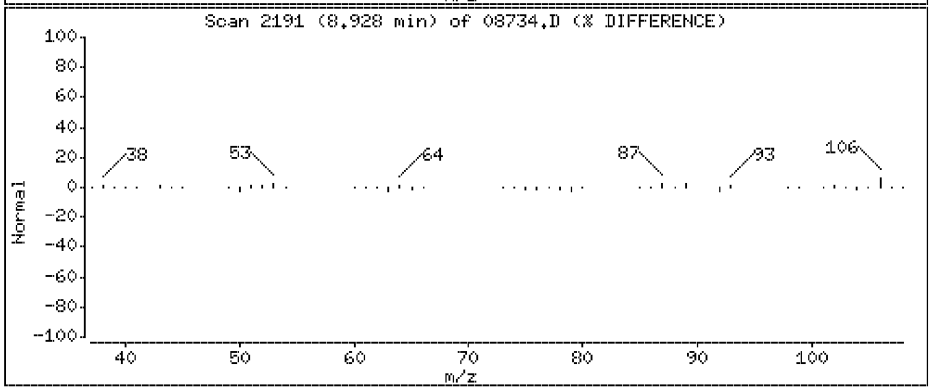












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08734.D

Date : 29-MAR-2017 02:01

Client ID:

Instrument: 10airB.i

Sample Info:

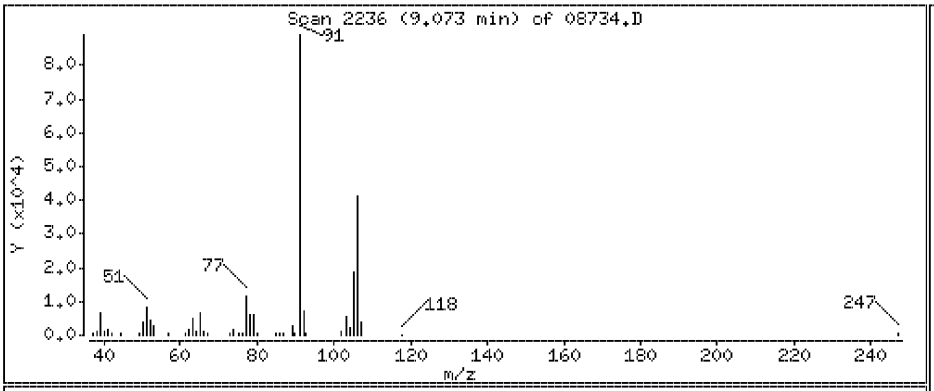
Operator: NCK

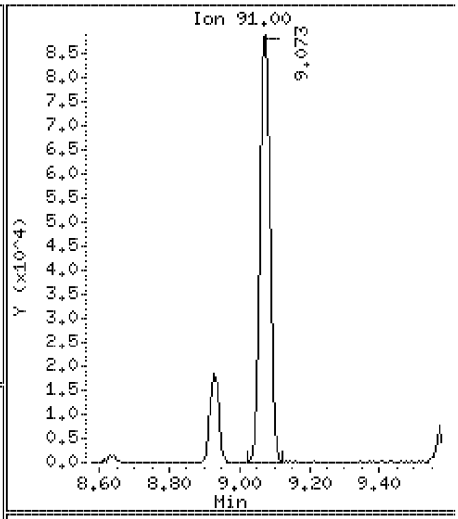
Column phase: J&W DB-5

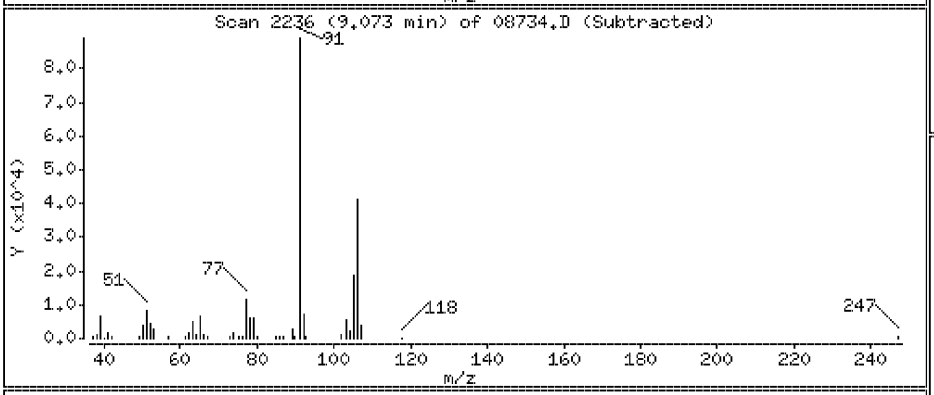
Column diameter: 0.32

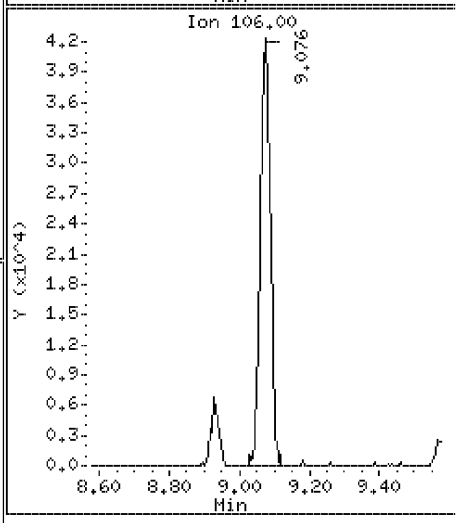
70 m&p-Xylene

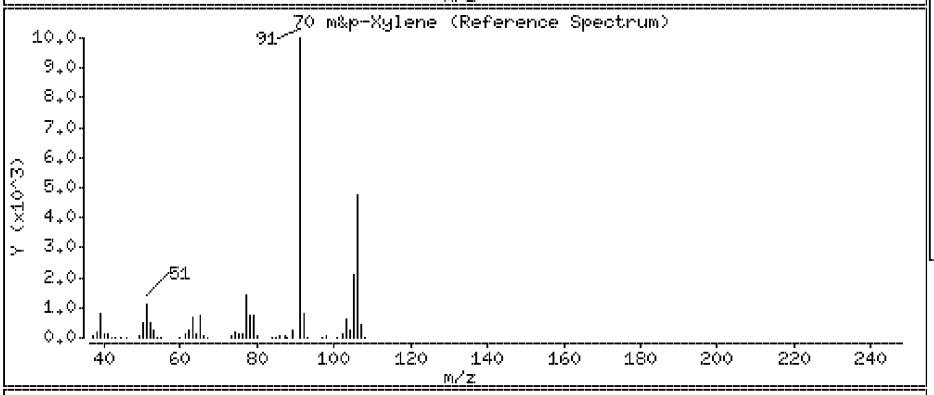
Concentration: 10.4 ppbv

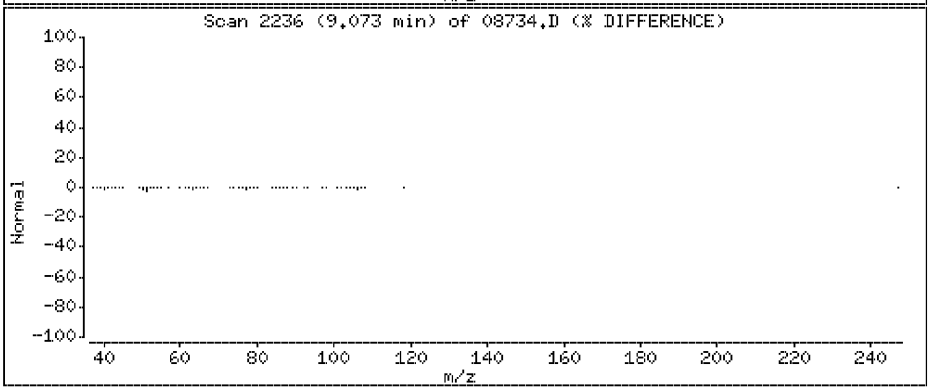






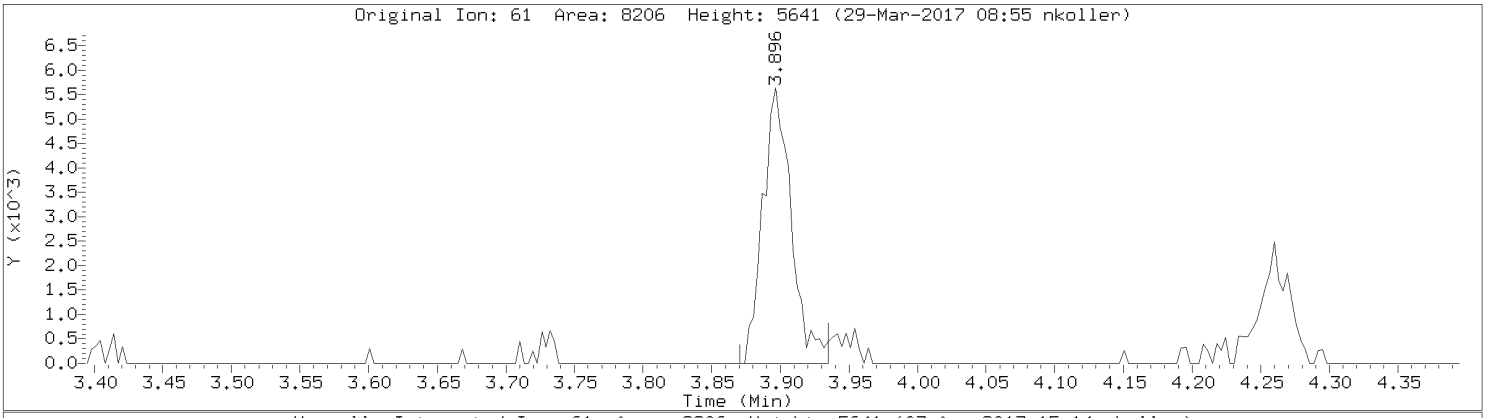


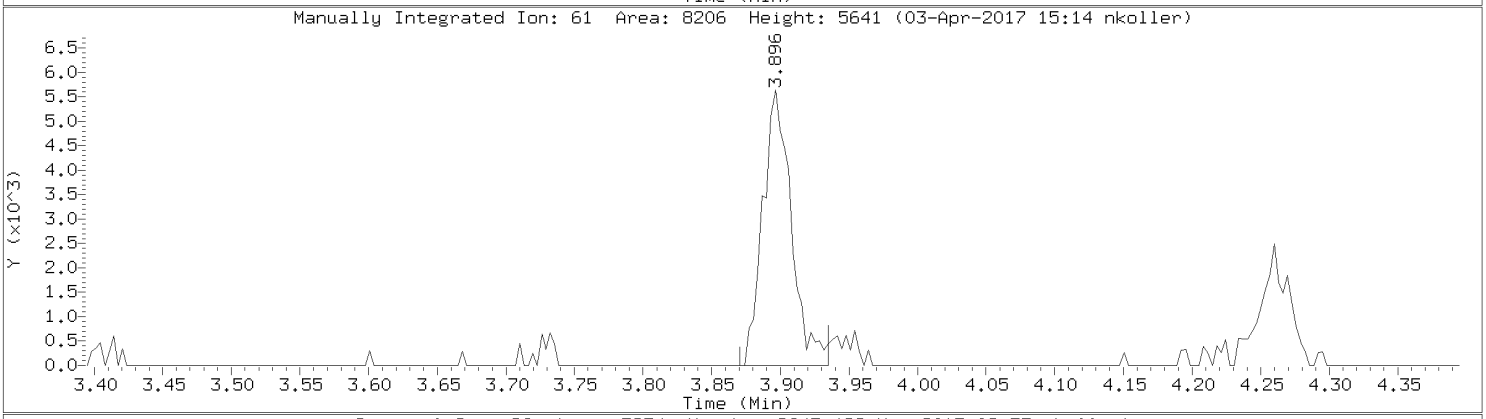


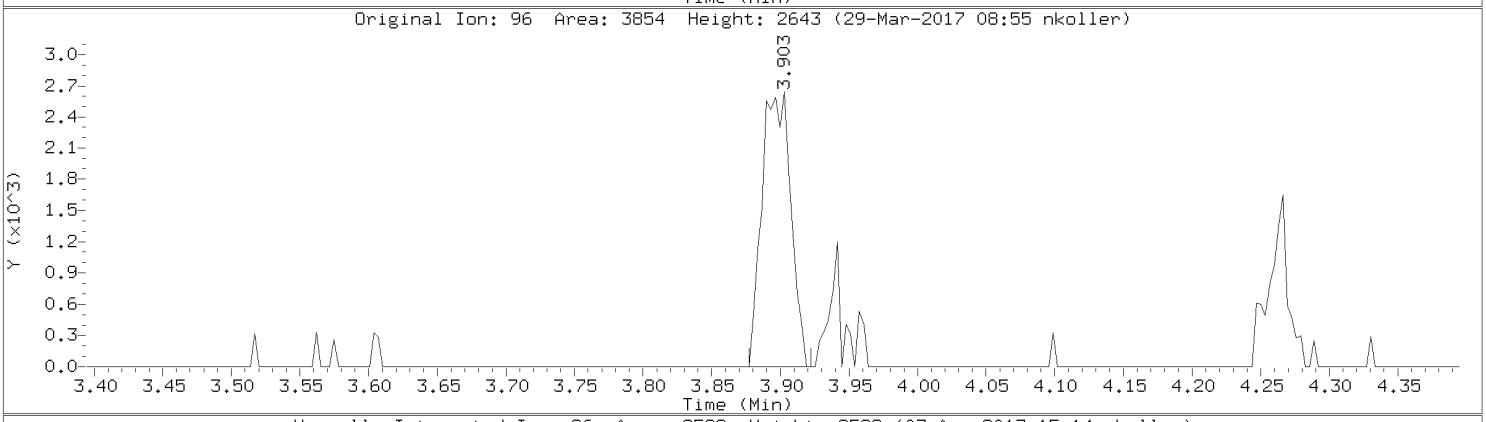


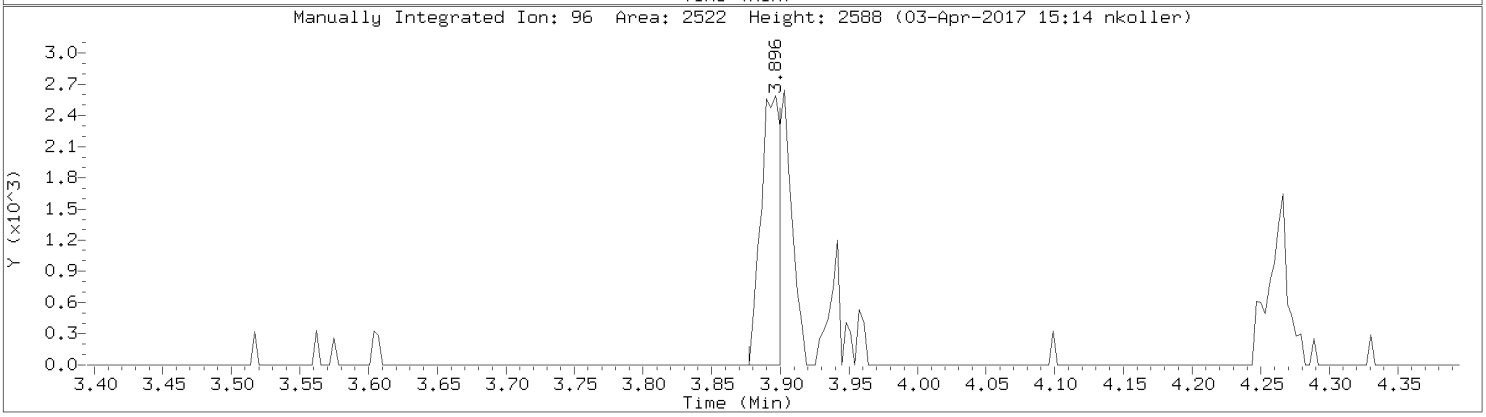
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08734.D
Injection Date: 29-MAR-2017 02:01
Instrument: 10airB.i
Lab Sample ID: 10381335023

Compound: 1,1-Dichloroethene
CAS Number: 75-35-4



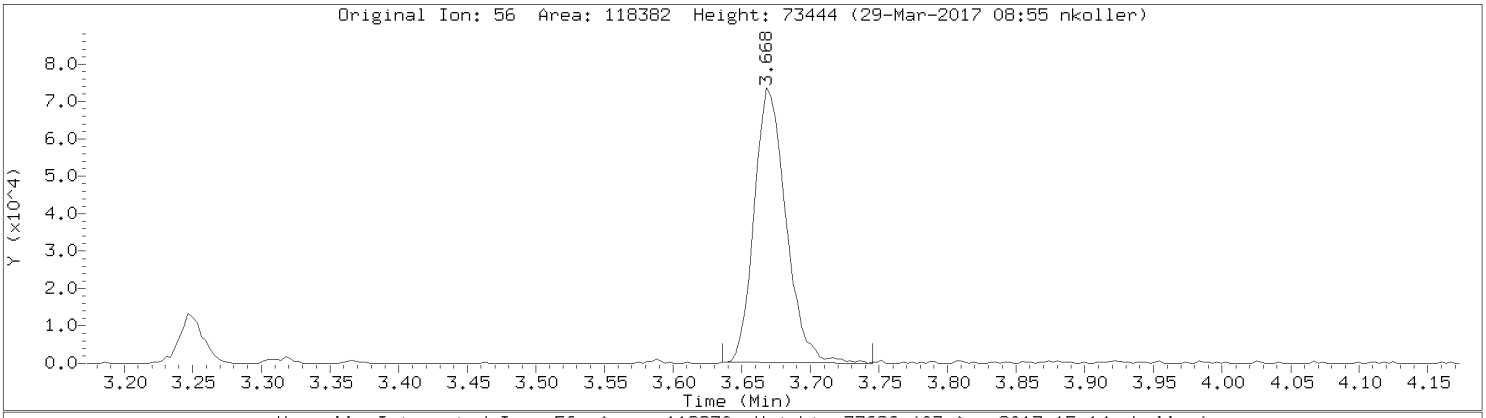


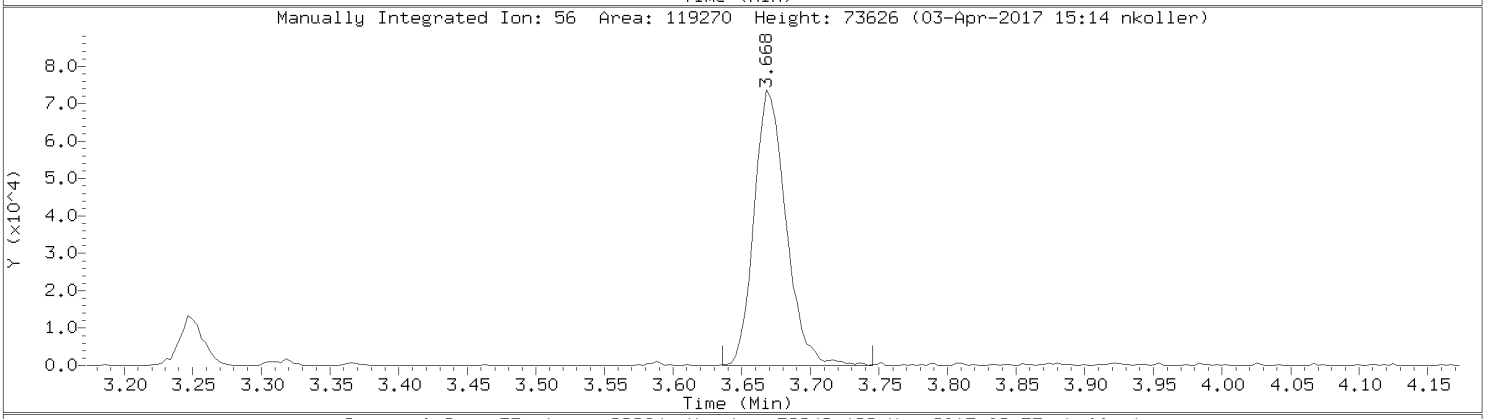


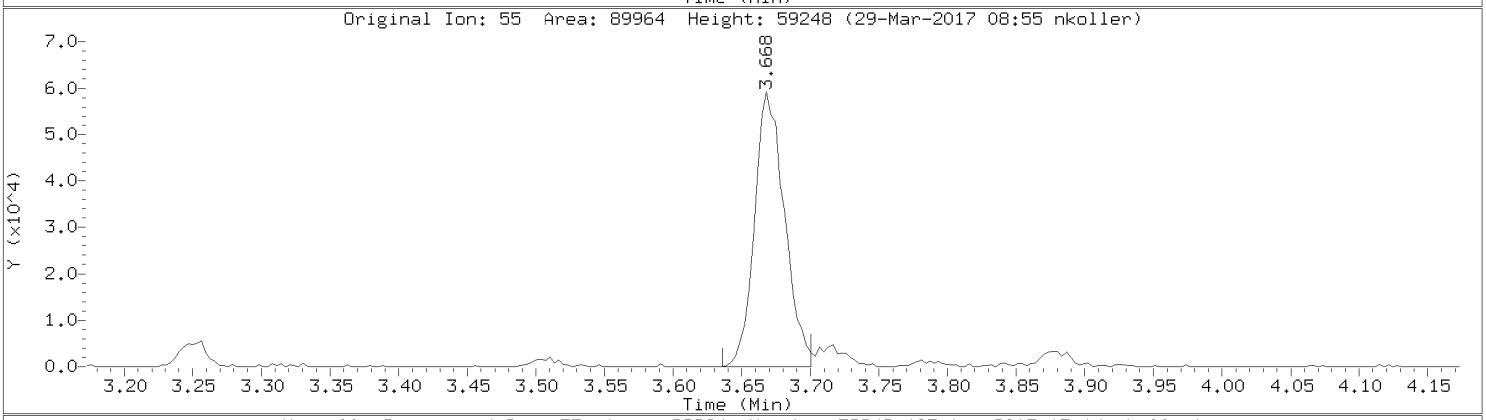


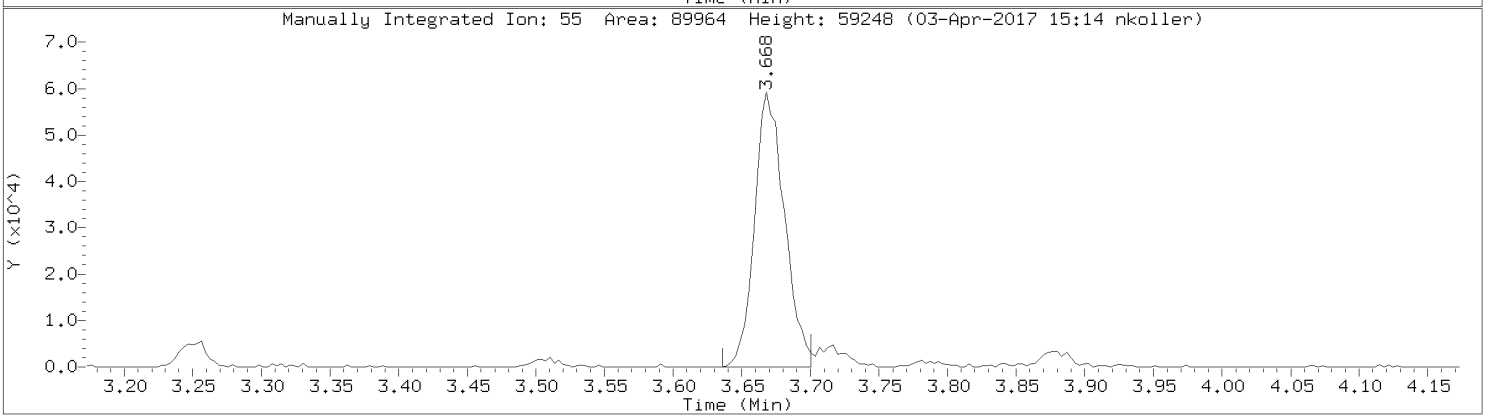
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08734.D
Injection Date: 29-MAR-2017 02:01
Instrument: 10airB.i
Lab Sample ID: 10381335023

Compound: Acrolein
CAS Number: 107-02-08



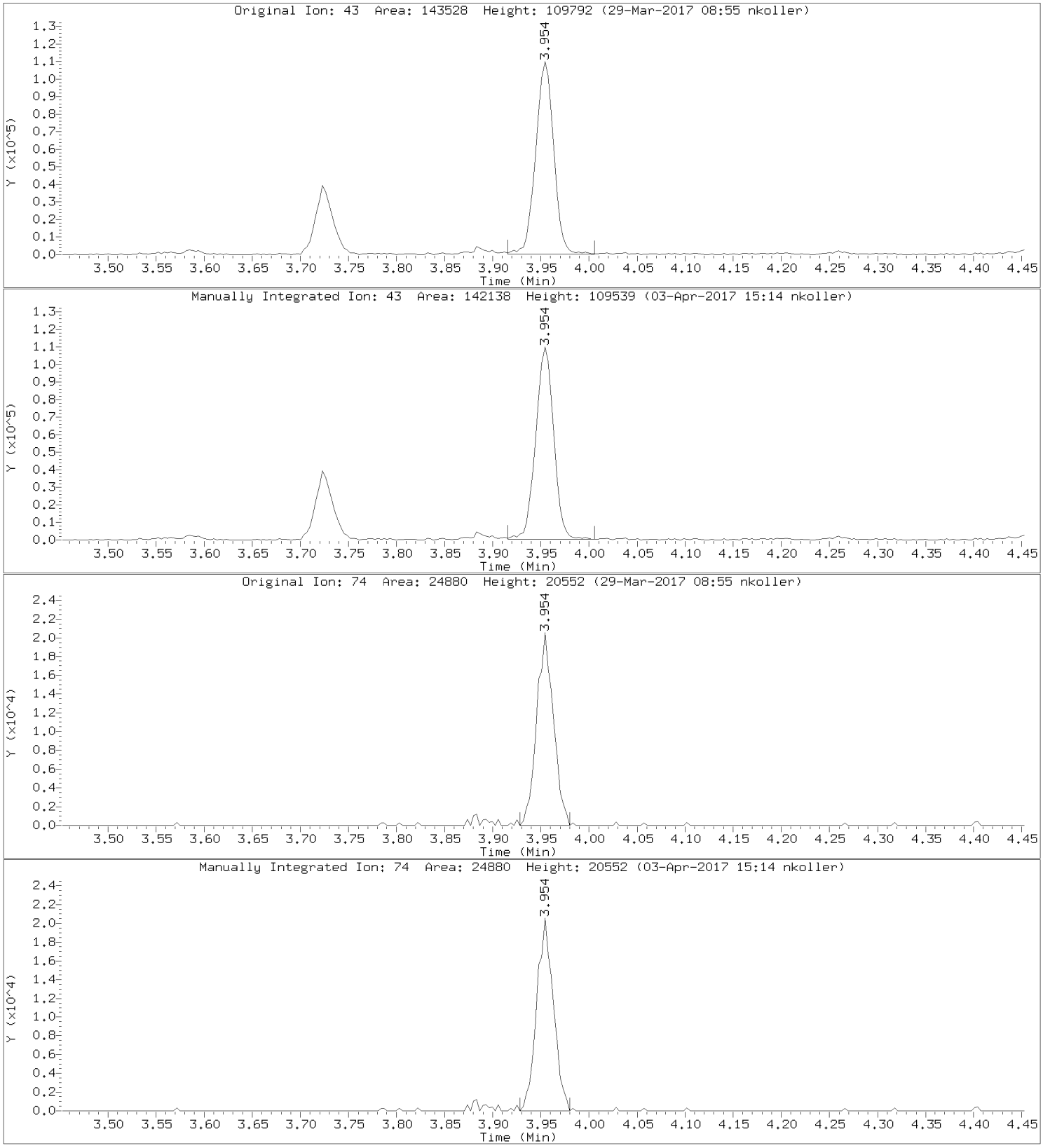




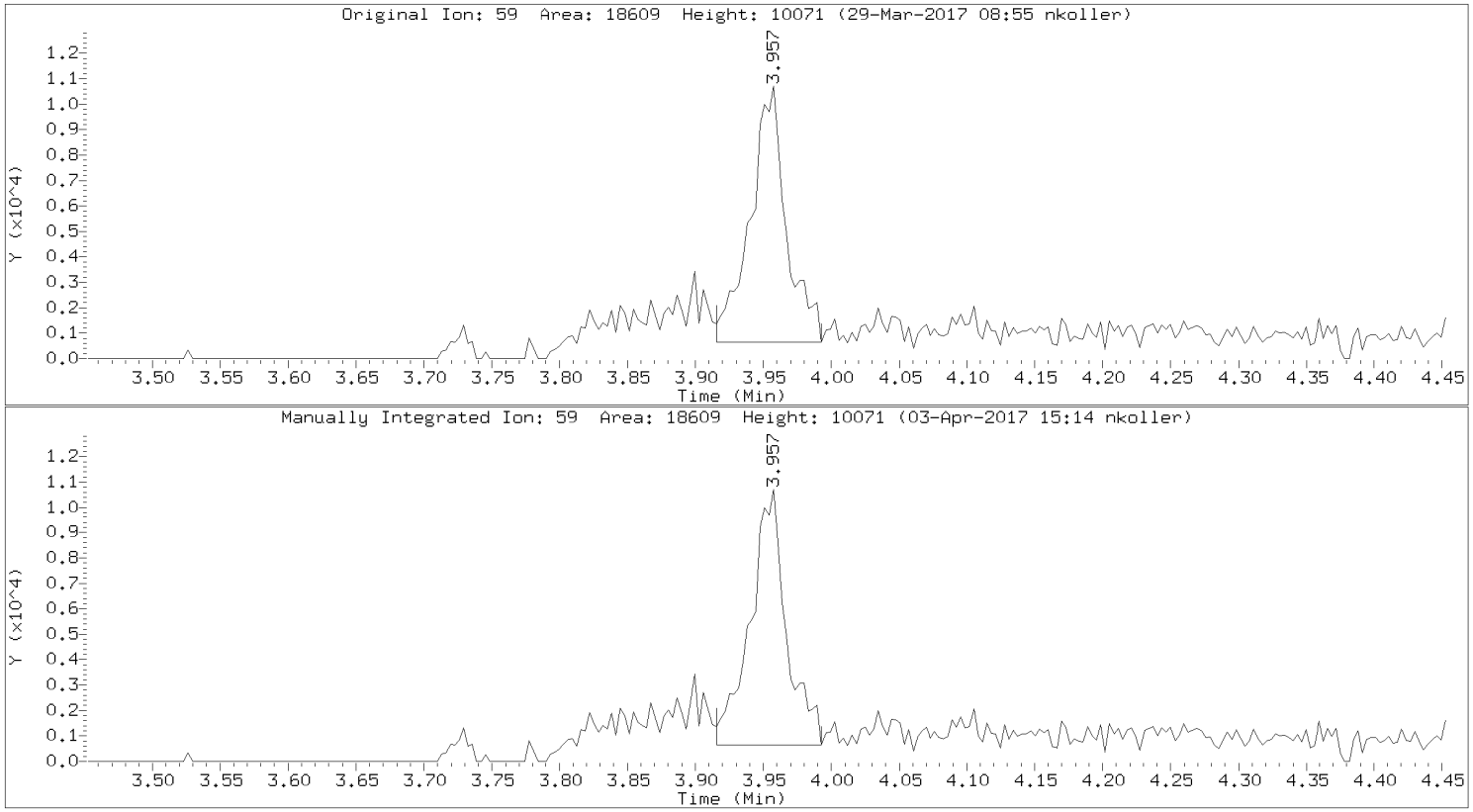


Data File: \\192.168.10.12\chem\10airB.i\032817.b/08734.D
Injection Date: 29-MAR-2017 02:01
Instrument: 10airB.i
Lab Sample ID: 10381335023

Compound: Methyl Acetate
CAS Number: 79-20-9



Data File: \\192.168.10.12\chem\10airB.i\032817.b/08734.D
Injection Date: 29-MAR-2017 02:01
Instrument: 10airB.i
Lab Sample ID: 10381335023



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_50.5_20170307 **Lab ID: 10381335024** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**20.6J**	ug/m3	44.2		18.3		04/02/17 12:01	67-64-1	
Allyl chloride	**0.0J**	ug/m3	29.1		18.3		04/02/17 12:01	107-05-1	
Benzene	**0.0J**	ug/m3	5.9		18.3		04/02/17 12:01	71-43-2	
Bromodichloromethane	**0.0J**	ug/m3	24.9		18.3		04/02/17 12:01	75-27-4	
Bromoform	**0.0J**	ug/m3	38.4		18.3		04/02/17 12:01	75-25-2	
Bromomethane	**0.0J**	ug/m3	14.5		18.3		04/02/17 12:01	74-83-9	
1,3-Butadiene	**0.0J**	ug/m3	8.2		18.3		04/02/17 12:01	106-99-0	
2-Butanone (MEK)	**0.0J**	ug/m3	54.9		18.3		04/02/17 12:01	78-93-3	
Carbon disulfide	**0.0J**	ug/m3	11.5		18.3		04/02/17 12:01	75-15-0	
Carbon tetrachloride	**0.0J**	ug/m3	11.7		18.3		04/02/17 12:01	56-23-5	
Chlorobenzene	**0.0J**	ug/m3	17.2		18.3		04/02/17 12:01	108-90-7	
Chlorodifluoromethane	**0.0J**	ug/m3	13.2		18.3		04/02/17 12:01	75-45-6	
Chloroethane	**0.0J**	ug/m3	9.9		18.3		04/02/17 12:01	75-00-3	
Chloroform	**0.0J**	ug/m3	9.1		18.3		04/02/17 12:01	67-66-3	
Chloromethane	**0.0J**	ug/m3	7.7		18.3		04/02/17 12:01	74-87-3	
Chloropentafluoroethane	**0.0J**	ug/m3	58.7		18.3		04/02/17 12:01	76-15-3	
Cyclohexane	**0.0J**	ug/m3	12.8		18.3		04/02/17 12:01	110-82-7	
1,2-Dibromo-3-chloropropane	**0.0J**	ug/m3	89.9		18.3		04/02/17 12:01	96-12-8	
Dibromochloromethane	**0.0J**	ug/m3	31.7		18.3		04/02/17 12:01	124-48-1	
1,2-Dibromoethane (EDB)	**0.0J**	ug/m3	28.5		18.3		04/02/17 12:01	106-93-4	
1,2-Dichlorobenzene	**0.0J**	ug/m3	22.3		18.3		04/02/17 12:01	95-50-1	
1,3-Dichlorobenzene	**0.0J**	ug/m3	22.3		18.3		04/02/17 12:01	541-73-1	
1,4-Dichlorobenzene	**0.0J**	ug/m3	22.3		18.3		04/02/17 12:01	106-46-7	
Dichlorodifluoromethane	**0.0J**	ug/m3	18.5		18.3		04/02/17 12:01	75-71-8	
1,1-Dichloroethane	**0.0J**	ug/m3	15.0		18.3		04/02/17 12:01	75-34-3	
1,2-Dichloroethane	**0.0J**	ug/m3	7.5		18.3		04/02/17 12:01	107-06-2	
1,1-Dichloroethene	**0.0J**	ug/m3	14.8		18.3		04/02/17 12:01	75-35-4	
cis-1,2-Dichloroethene	**692**	ug/m3	14.8		18.3		04/02/17 12:01	156-59-2	
trans-1,2-Dichloroethene	**0.0J**	ug/m3	14.8		18.3		04/02/17 12:01	156-60-5	
1,2-Dichloropropane	**0.0J**	ug/m3	17.2		18.3		04/02/17 12:01	78-87-5	
cis-1,3-Dichloropropene	**0.0J**	ug/m3	16.8		18.3		04/02/17 12:01	10061-01-5	
trans-1,3-Dichloropropene	**0.0J**	ug/m3	16.8		18.3		04/02/17 12:01	10061-02-6	
Dichlorotetrafluoroethane	**0.0J**	ug/m3	26.0		18.3		04/02/17 12:01	76-14-2	
Freon 123	**0.0J**	ug/m3	58.2		18.3		04/02/17 12:01	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.0J**	ug/m3	67.0		18.3		04/02/17 12:01	123-91-1	
Ethylbenzene	**2.8J**	ug/m3	16.1		18.3		04/02/17 12:01	100-41-4	
4-Ethyltoluene	**0.0J**	ug/m3	18.3		18.3		04/02/17 12:01	622-96-8	
Hexachloro-1,3-butadiene	**0.0J**	ug/m3	99.2		18.3		04/02/17 12:01	87-68-3	
n-Hexane	**0.0J**	ug/m3	13.2		18.3		04/02/17 12:01	110-54-3	
2-Hexanone	**0.0J**	ug/m3	76.2		18.3		04/02/17 12:01	591-78-6	
Isopropylbenzene (Cumene)	**0.0J**	ug/m3	45.8		18.3		04/02/17 12:01	98-82-8	
Methyl acetate	**0.0J**	ug/m3	28.2		18.3		04/02/17 12:01	79-20-9	
Methylcyclohexane	**0.0J**	ug/m3	14.9		18.3		04/02/17 12:01	108-87-2	
Methylene Chloride	**10.7J**	ug/m3	64.6		18.3		04/02/17 12:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0J**	ug/m3	76.2		18.3		04/02/17 12:01	108-10-1	
Methyl-tert-butyl ether	**0.0J**	ug/m3	67.1		18.3		04/02/17 12:01	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D
Report Date: 03-Apr-2017 14:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040217.b\09208.D
Lab Smp Id: 10381335024
Inj Date : 02-APR-2017 12:01
Operator : DR1 Inst ID: 10airB.i
Smp Info :
Misc Info : 28055
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m
Meth Date : 03-Apr-2017 14:27 drandall Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 8
Dil Factor: 18.30000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	18.300	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.568	3.549	(0.637)	3108	0.16931	3.10	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.748	3.726	(0.669)	32951	0.46554	8.52	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.944	3.957	(0.704)	5928	0.07257	1.33	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D
Report Date: 03-Apr-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.989	4.012	(0.712)	9365	0.16551	3.03	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.801)	726030	9.70579	9.71	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.706	4.729	(0.840)	403257	9.38636	172(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1982839	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.976	5.989	(1.067)	18312	0.22769	4.17	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.262)	1577153	9.49371	9.49	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.140	7.153	(1.275)	75784	0.39437	7.22	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	25772	0.26684	4.88	
*	67 Chlorobenzene - d5	117	8.635	8.645	(1.000)	1090755	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.924	8.934	(1.034)	8139	0.03513	0.643(a)	
	70 m&p-Xylene	91	9.069	9.082	(1.050)	29707	0.16972	3.11	
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D
Report Date: 03-Apr-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	372696	7.56193	7.56	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D
Report Date: 03-Apr-2017 14:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09208.D
Lab Smp Id: 10381335024
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m
Misc Info: 28055

Calibration Date: 02-APR-2017
Calibration Time: 08:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

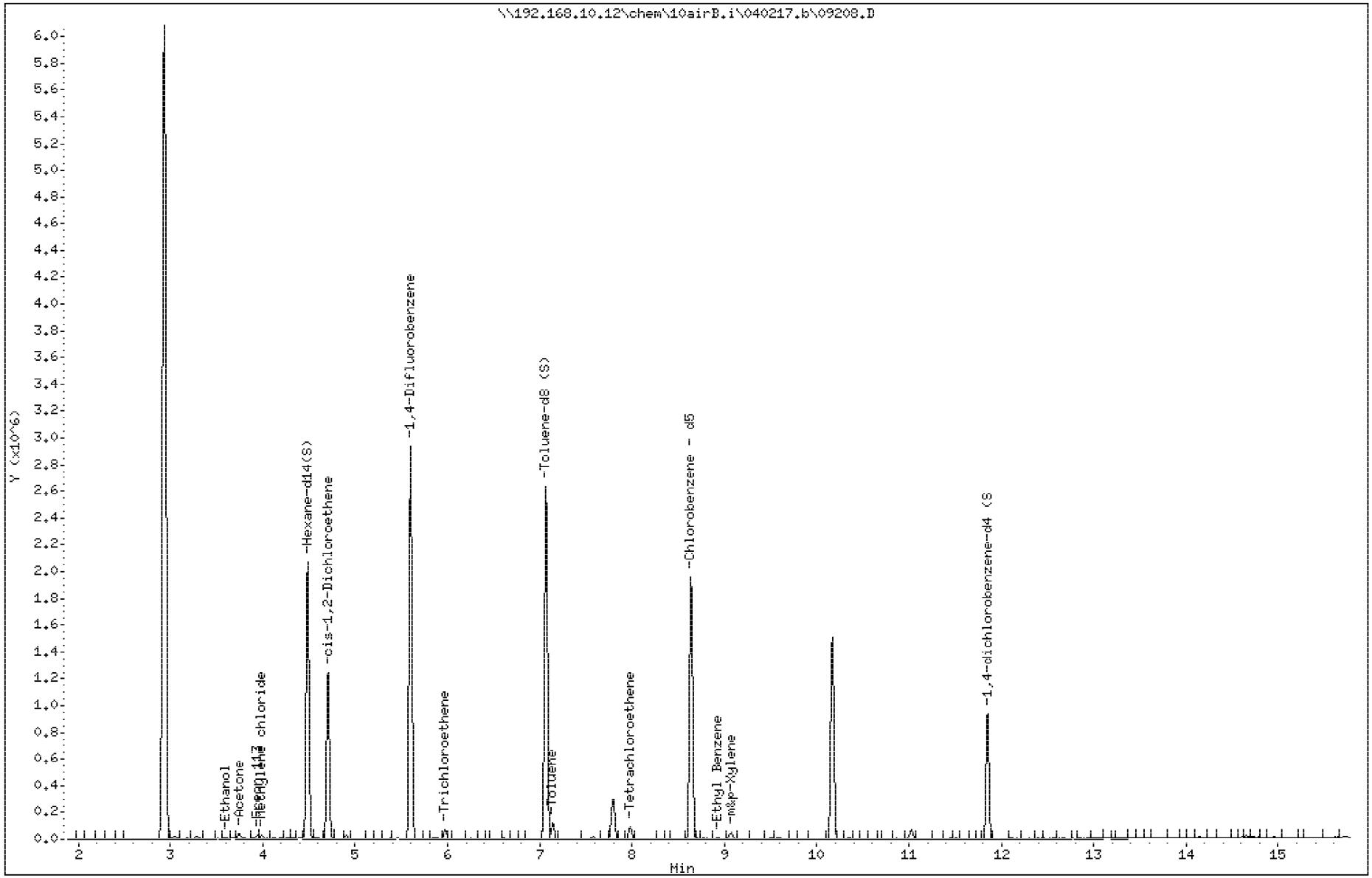
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1982839	2.38
67 Chlorobenzene - d	1173864	704318	1643410	1090755	-7.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.24
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.12

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D
Date : 02-APR-2017 12:01
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: DR1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D

Date : 02-APR-2017 12:01

Client ID:

Instrument: 10airB.i

Sample Info:

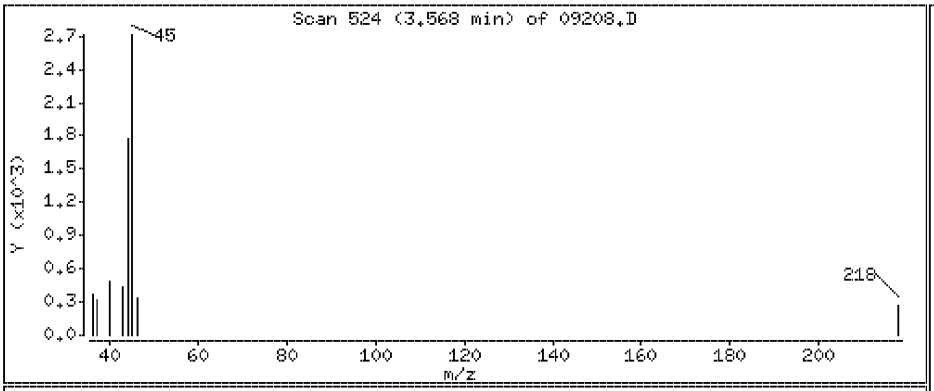
Operator: DR1

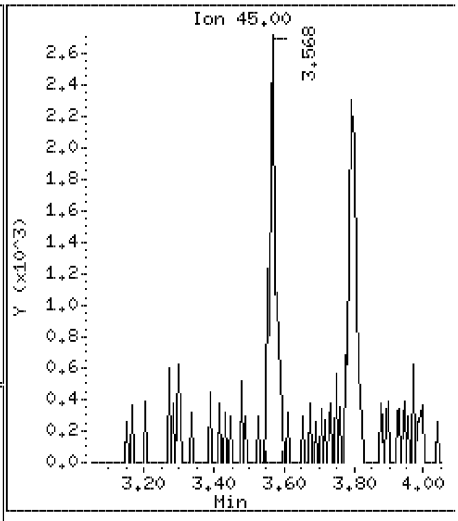
Column phase: J&W DB-5

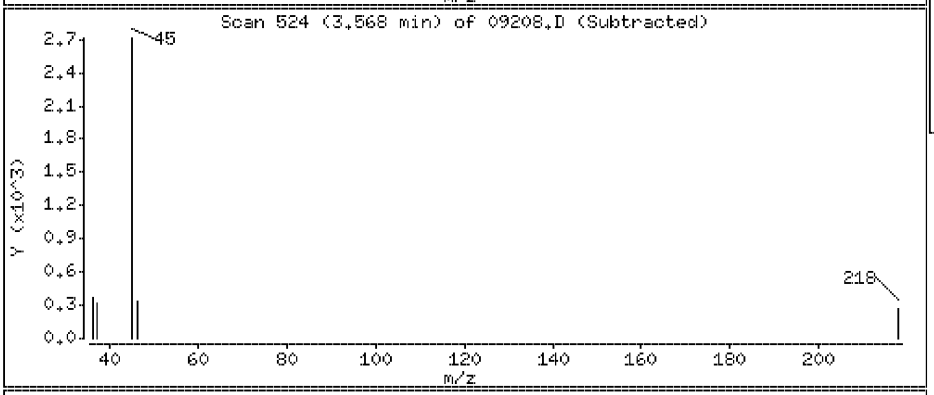
Column diameter: 0.32

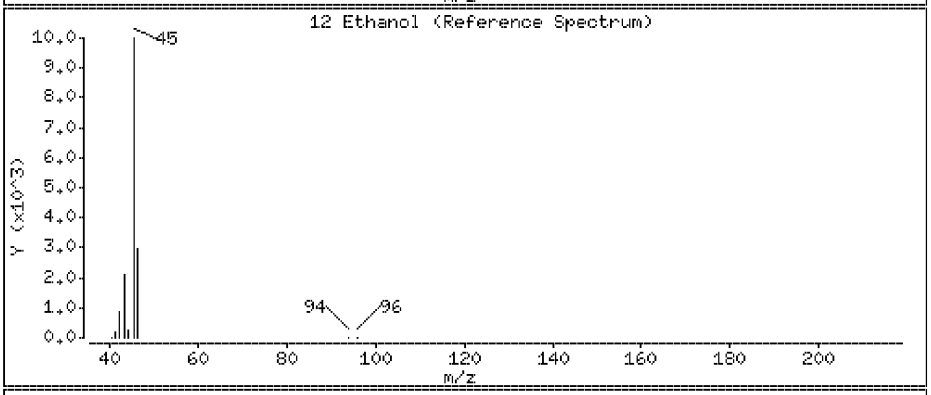
12 Ethanol

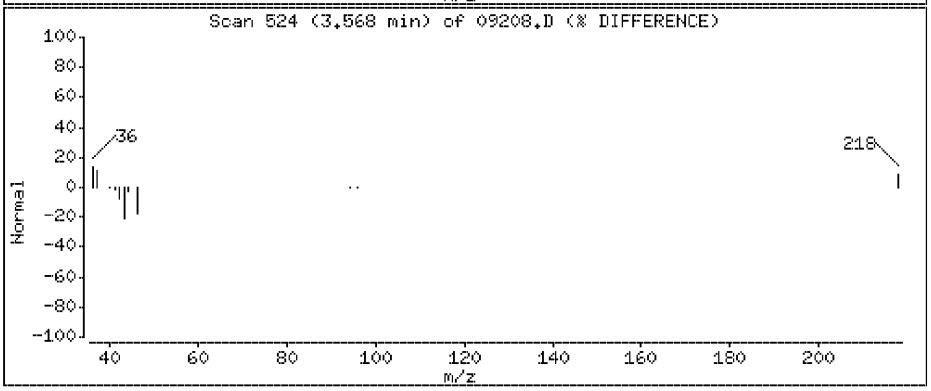
Concentration: 3.10 ppbv











Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D

Date : 02-APR-2017 12:01

Client ID:

Instrument: 10airB.i

Sample Info:

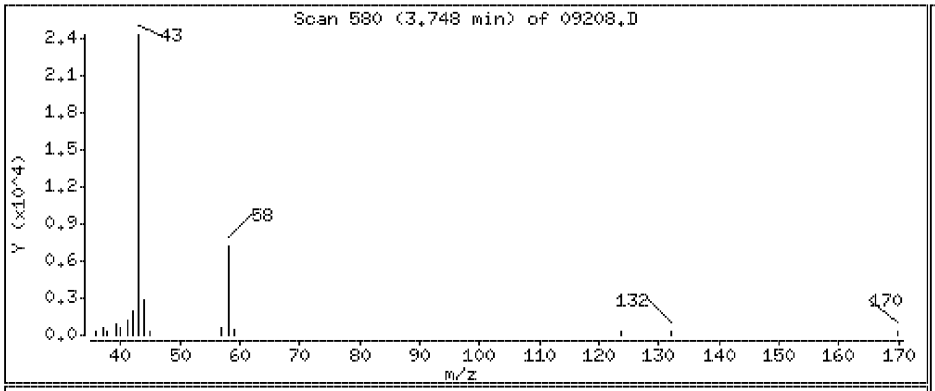
Operator: DR1

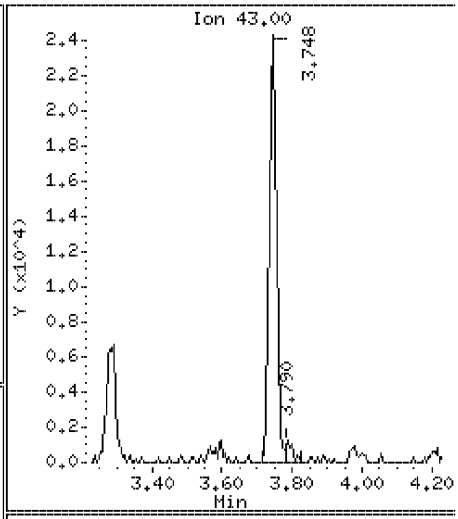
Column phase: J&W DB-5

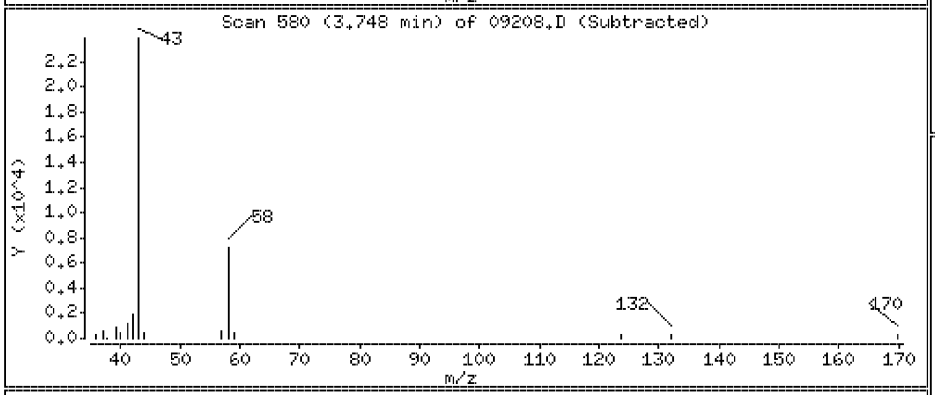
Column diameter: 0.32

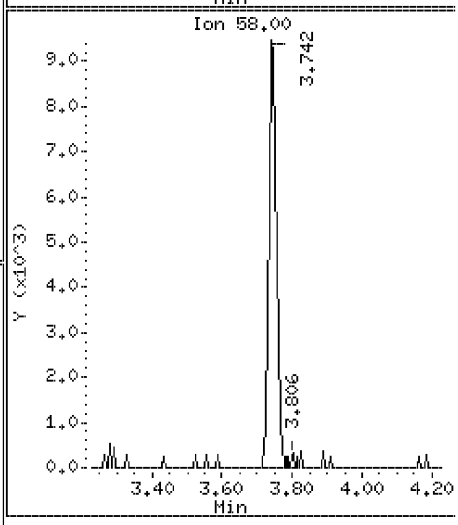
18 Acetone

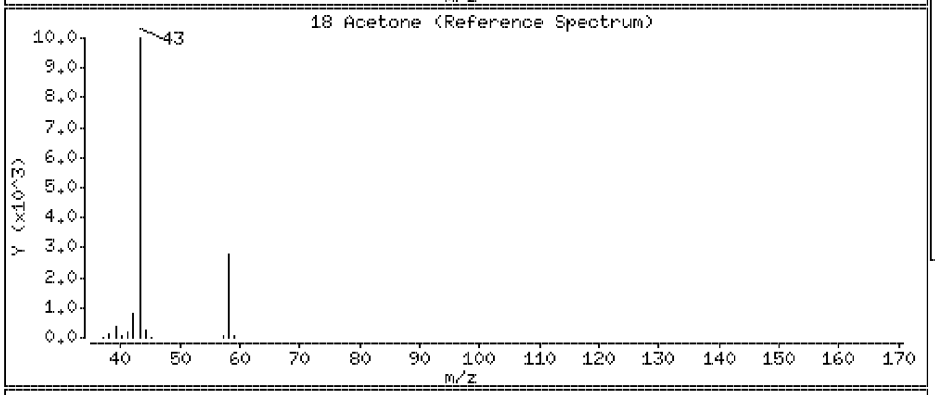
Concentration: 8.52 ppbv

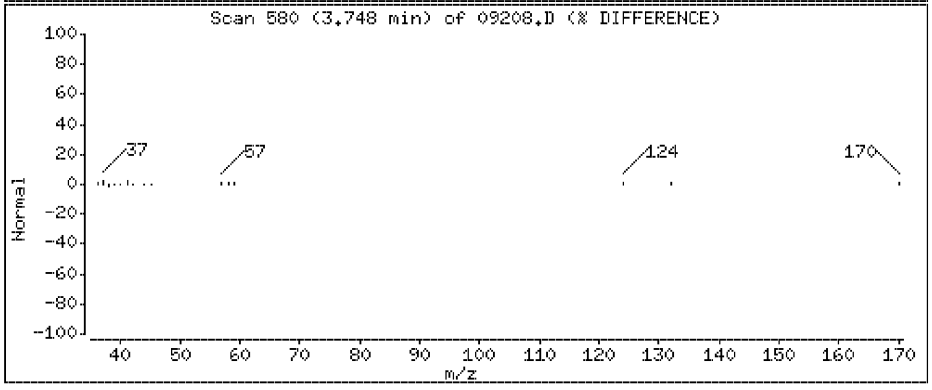












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D

Date : 02-APR-2017 12:01

Client ID:

Instrument: 10airB.i

Sample Info:

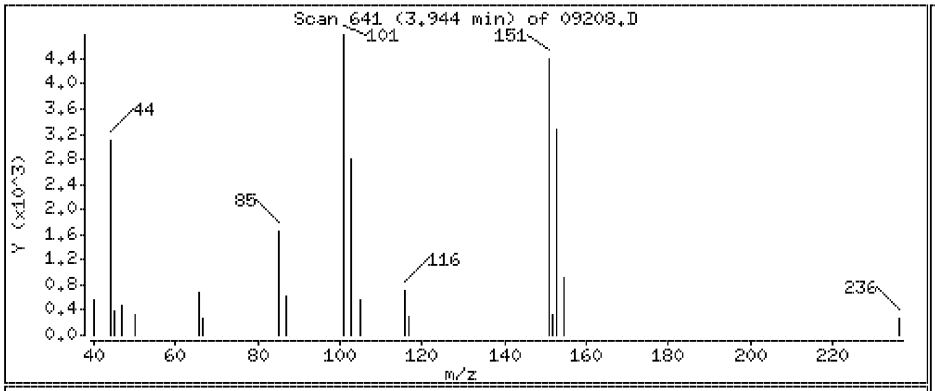
Operator: DR1

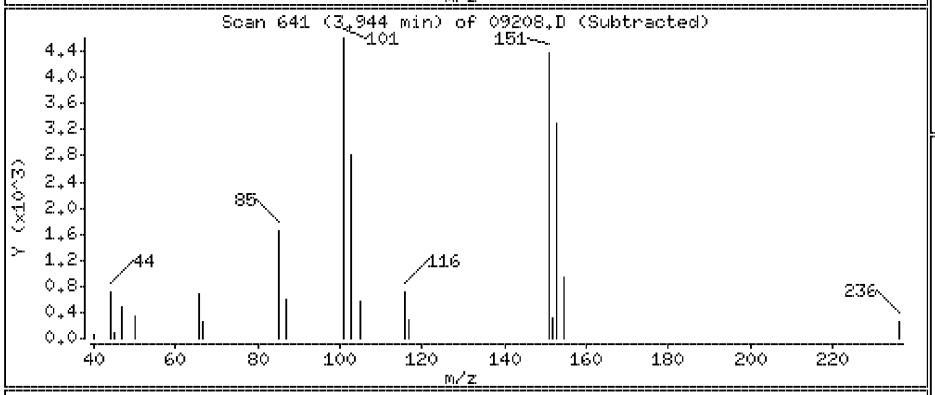
Column phase: J&W DB-5

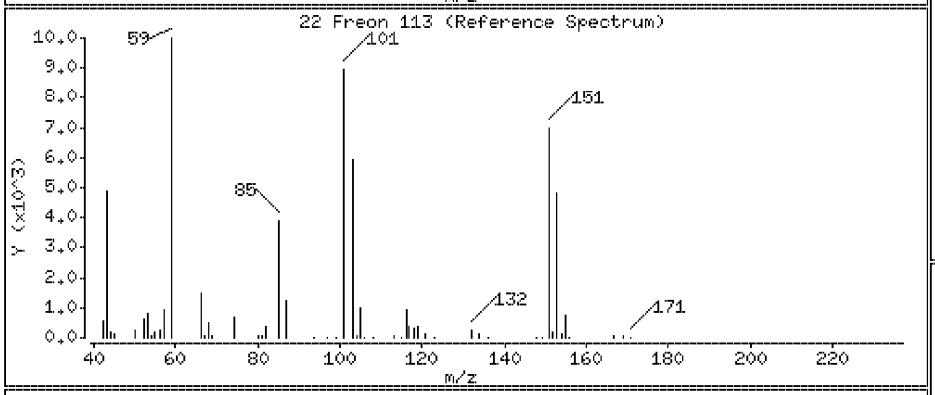
Column diameter: 0.32

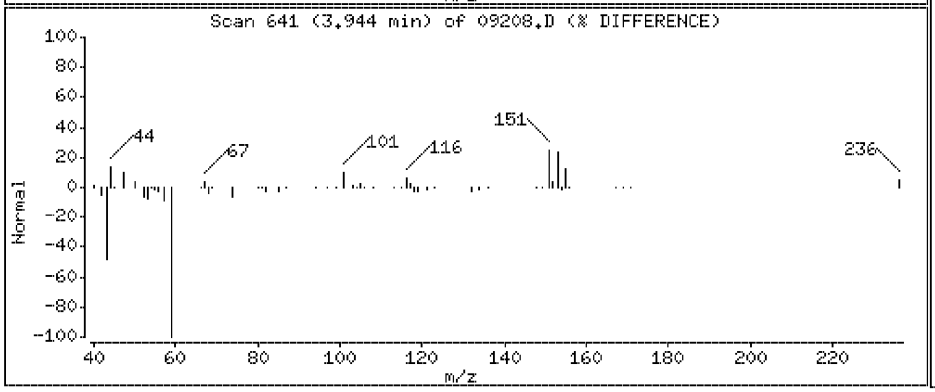
22 Freon 113

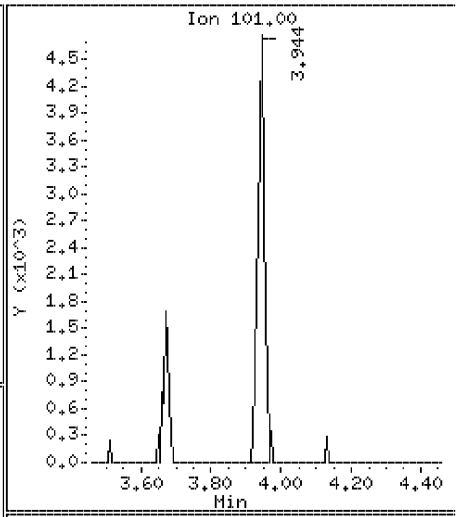
Concentration: 1.33 ppbv

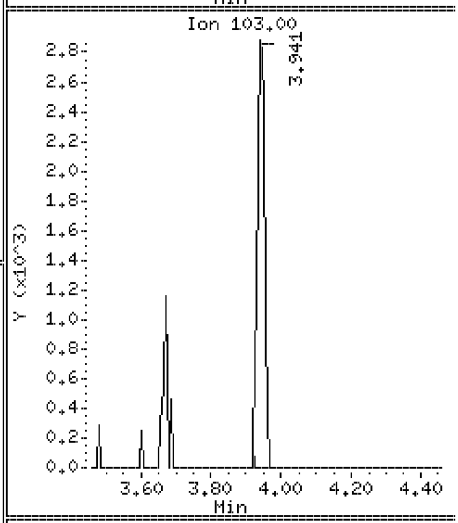


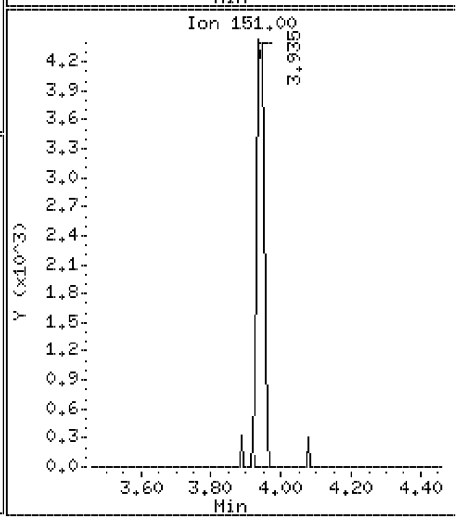












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D

Date : 02-APR-2017 12:01

Client ID:

Instrument: 10airB.i

Sample Info:

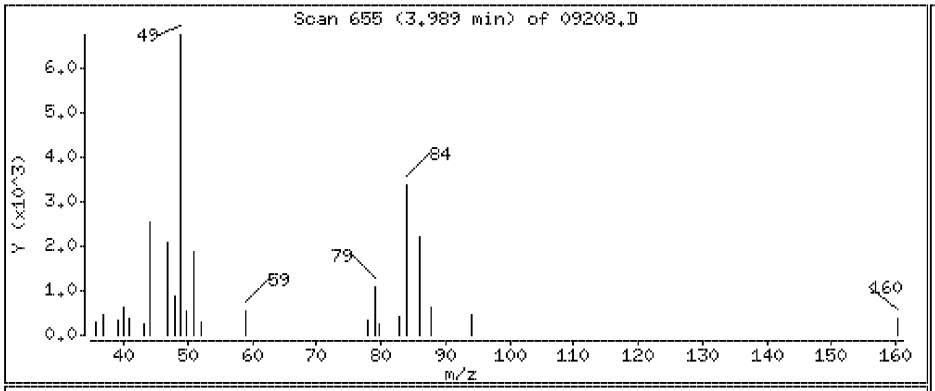
Operator: DR1

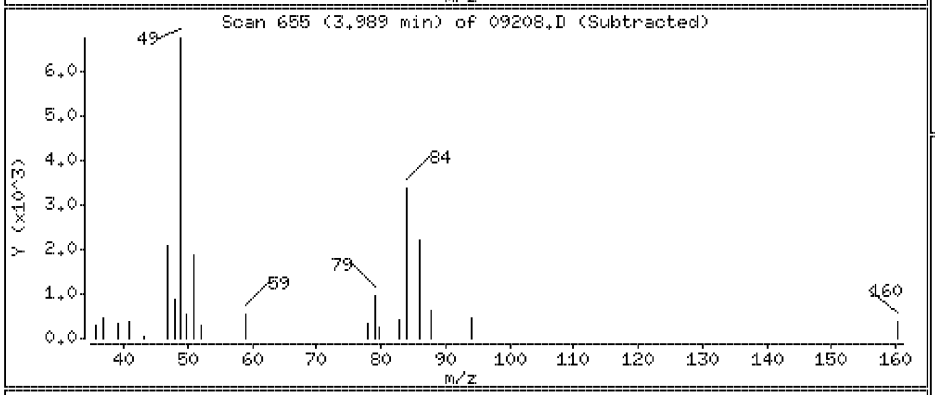
Column phase: J&W DB-5

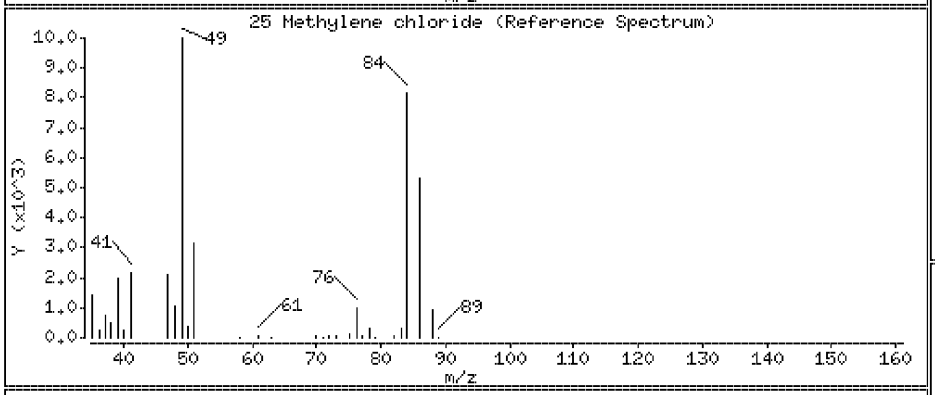
Column diameter: 0.32

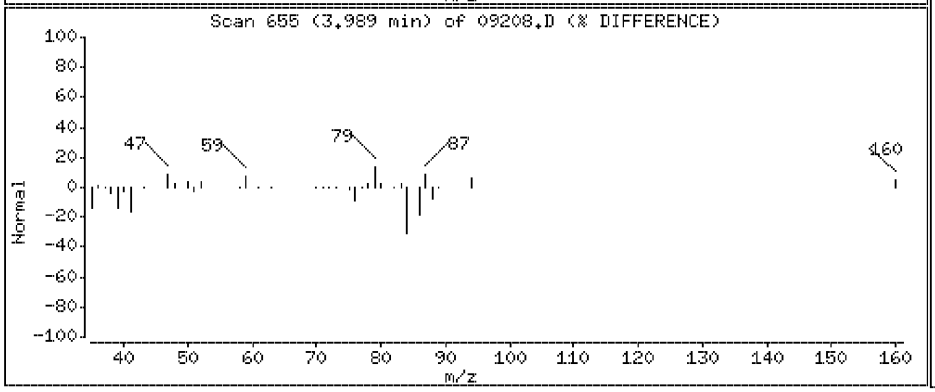
25 Methylene chloride

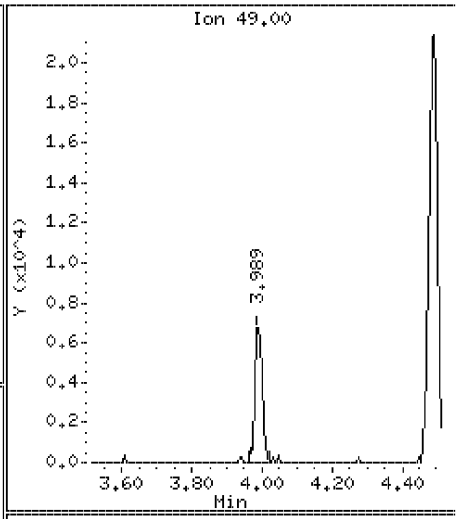
Concentration: 3.03 ppbv

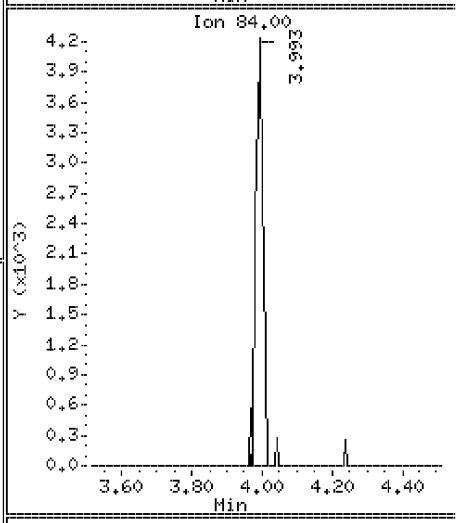


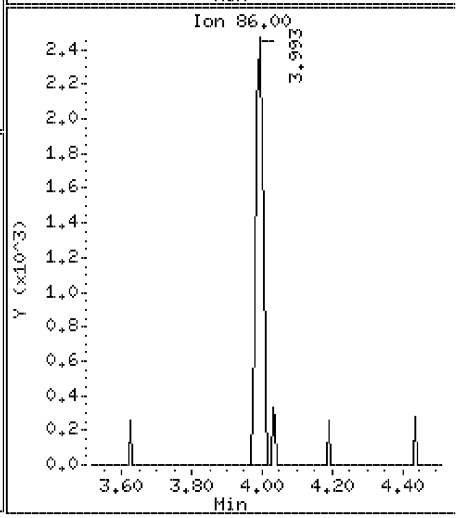












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D

Date : 02-APR-2017 12:01

Client ID:

Instrument: 10airB.i

Sample Info:

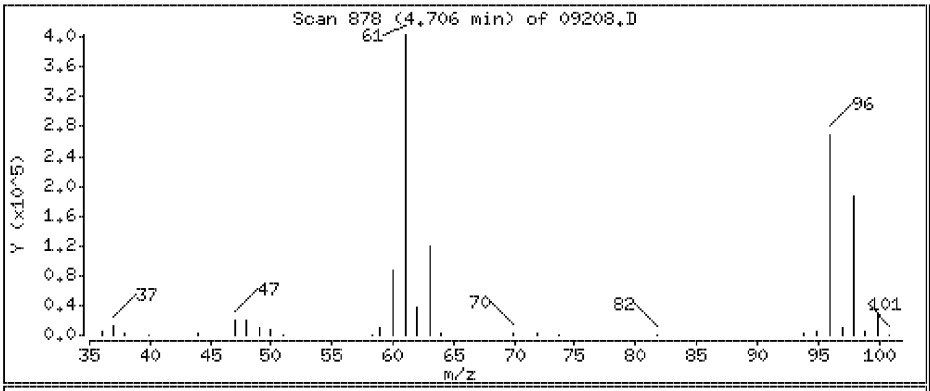
Operator: DR1

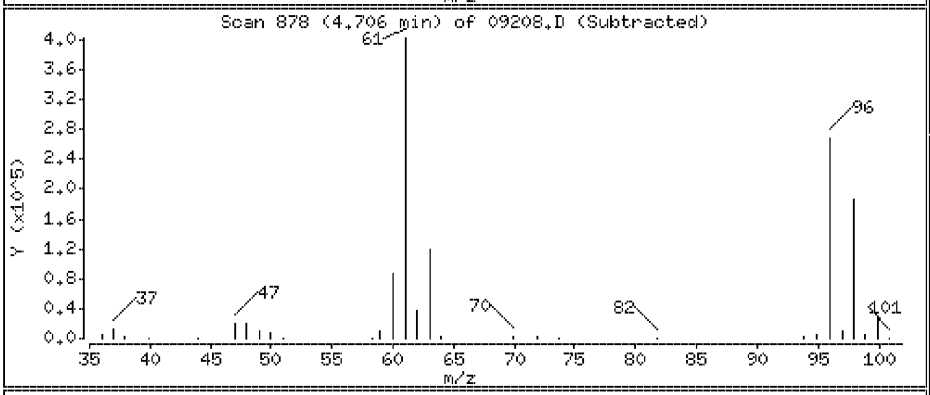
Column phase: J&W DB-5

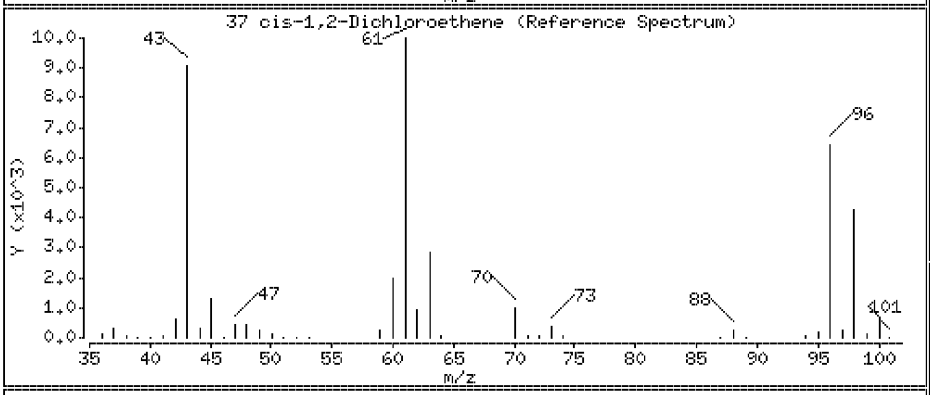
Column diameter: 0.32

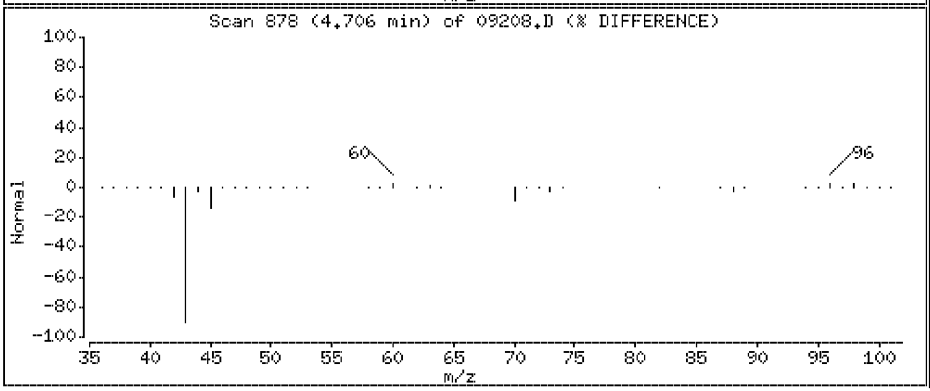
37 cis-1,2-Dichloroethene

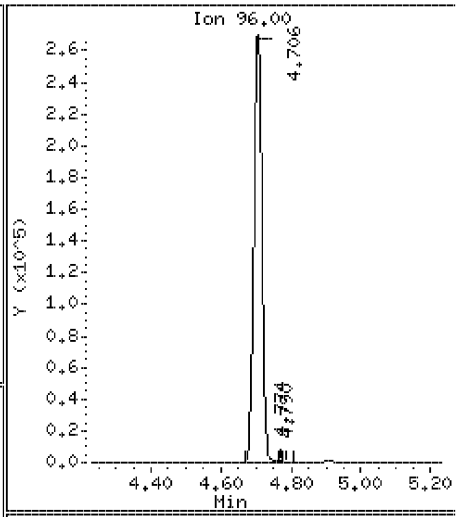
Concentration: 172 ppbv

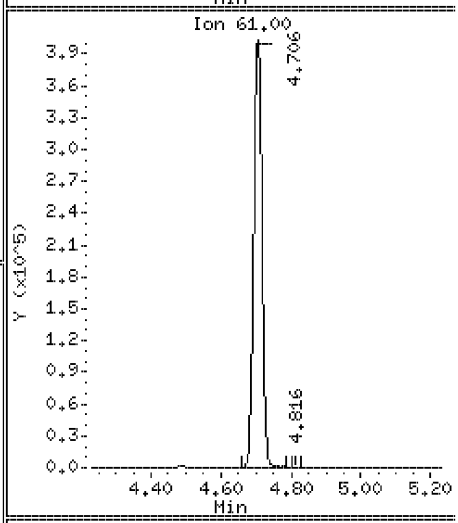


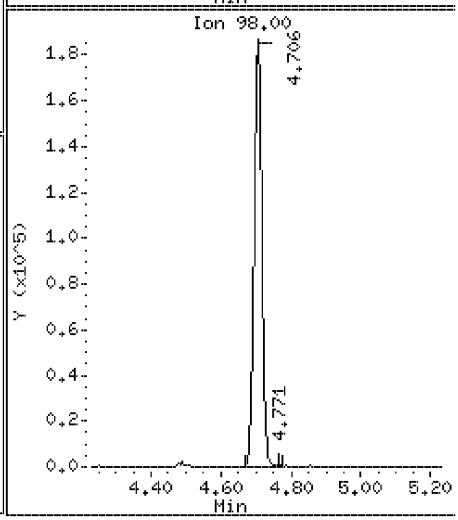












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D

Date : 02-APR-2017 12:01

Client ID:

Instrument: 10airB.i

Sample Info:

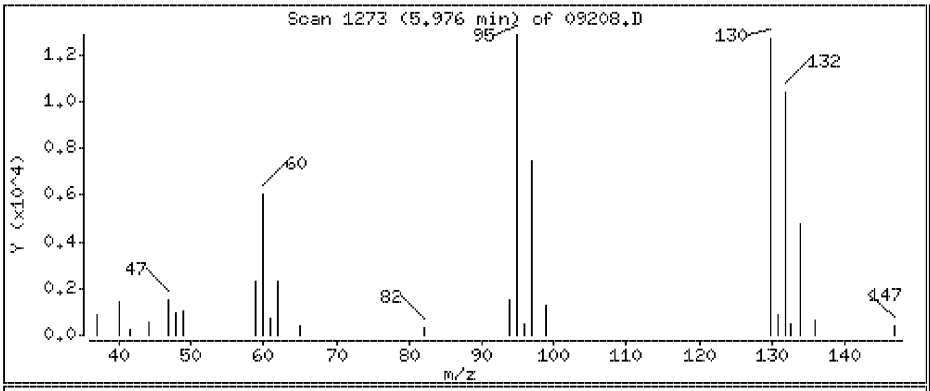
Operator: DR1

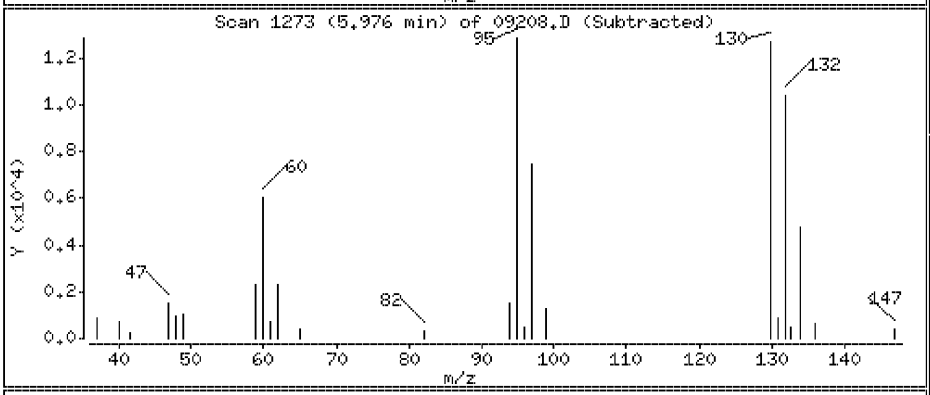
Column phase: J&W DB-5

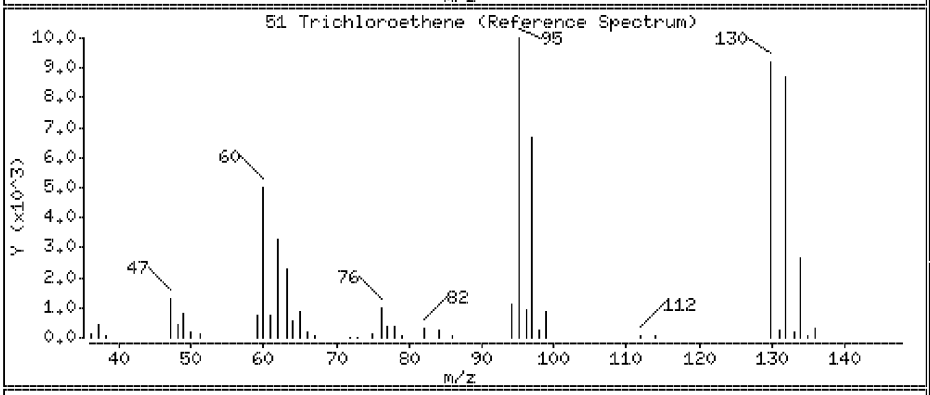
Column diameter: 0.32

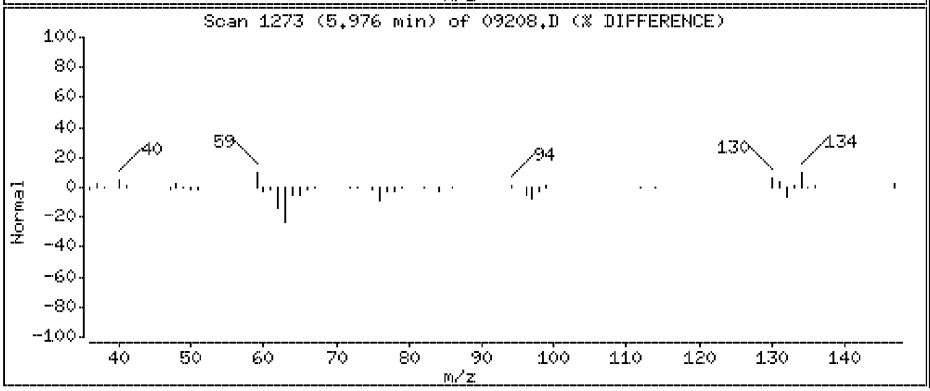
51 Trichloroethene

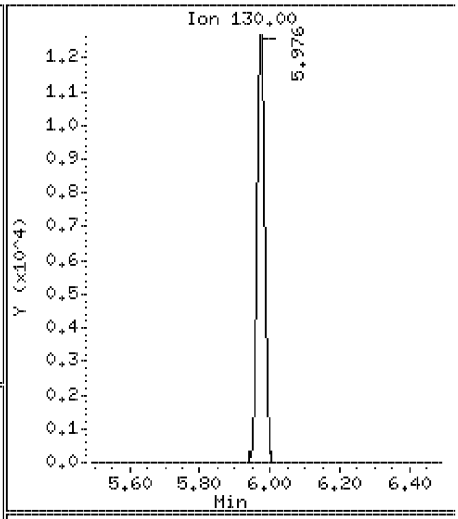
Concentration: 4.17 ppbv

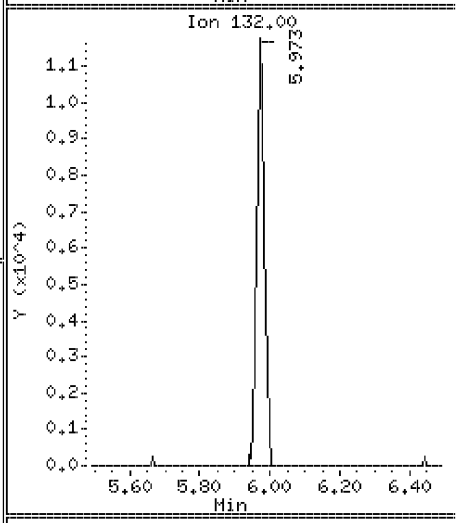


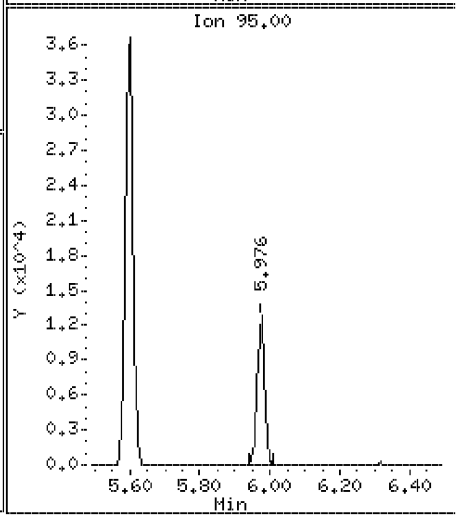












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D

Date : 02-APR-2017 12:01

Client ID:

Instrument: 10airB.i

Sample Info:

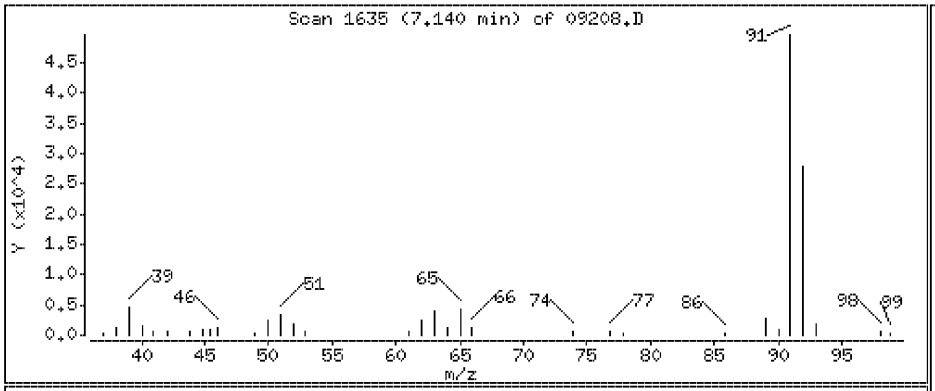
Operator: DR1

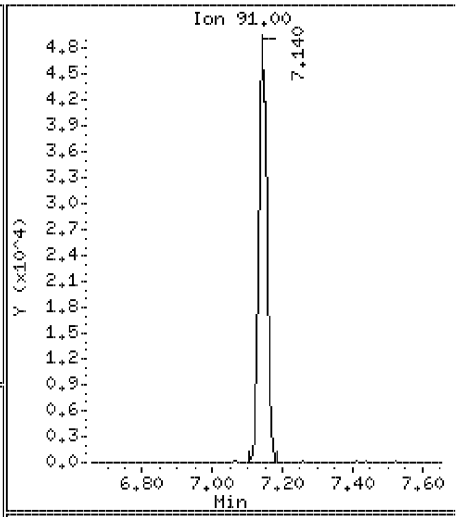
Column phase: J&W DB-5

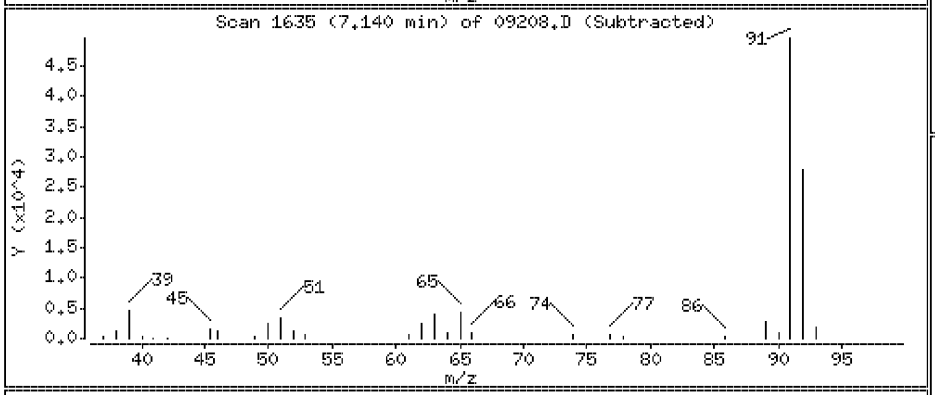
Column diameter: 0.32

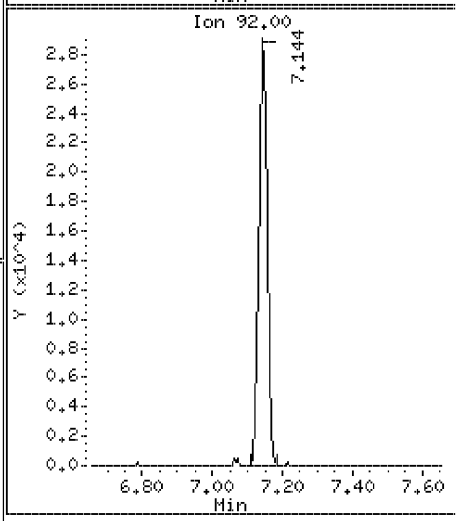
61 Toluene

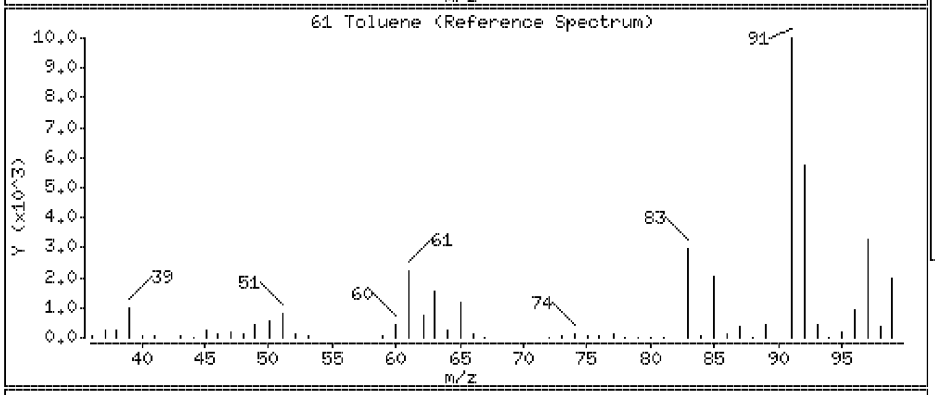
Concentration: 7.22 ppbv

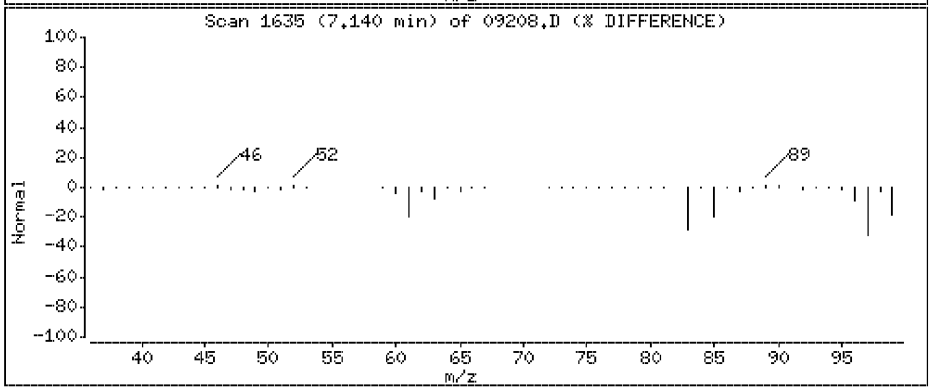












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D

Date : 02-APR-2017 12:01

Client ID:

Instrument: 10airB.i

Sample Info:

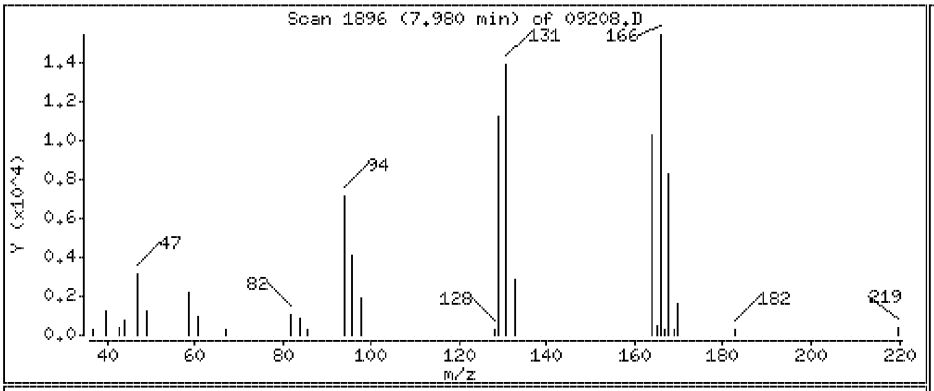
Operator: DR1

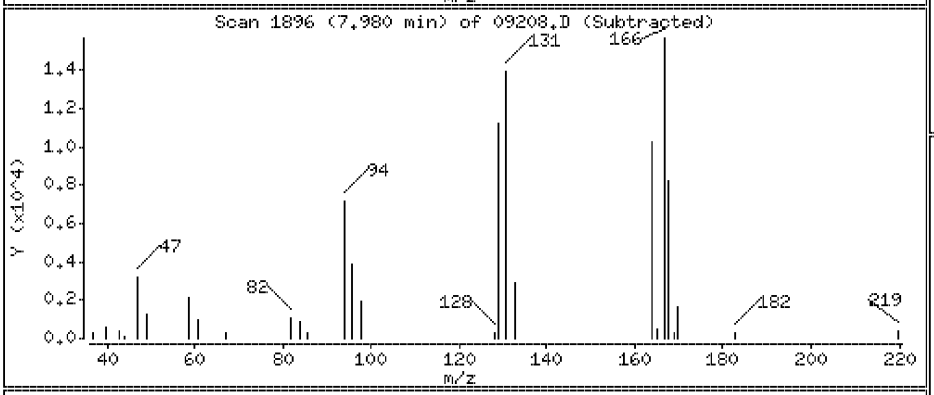
Column phase: J&W DB-5

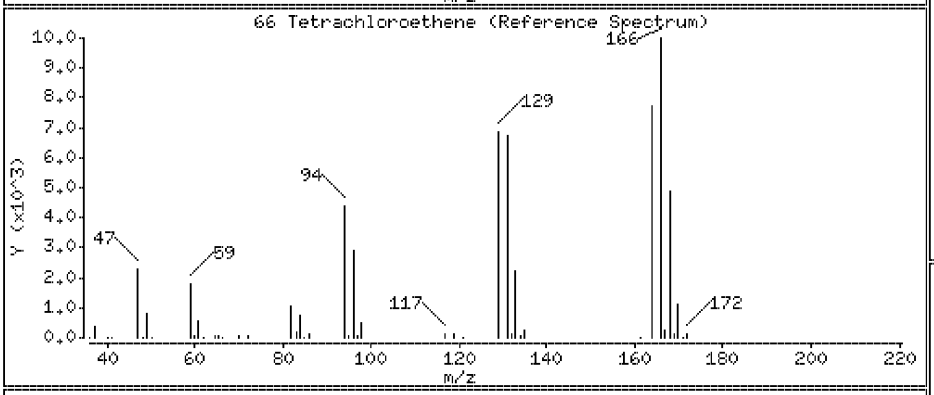
Column diameter: 0.32

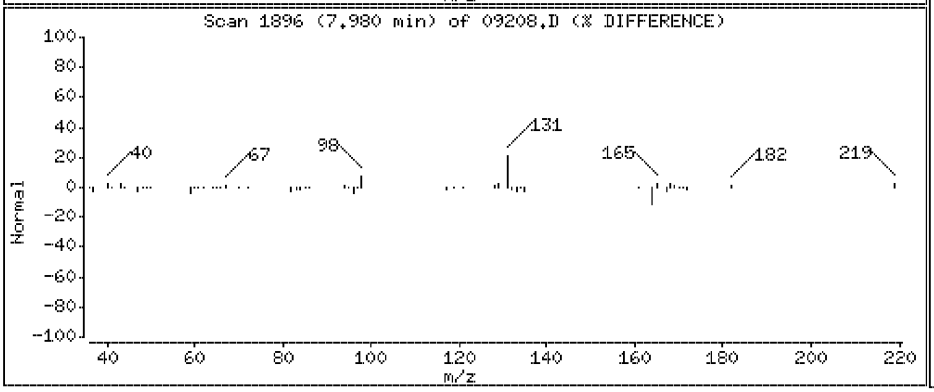
66 Tetrachloroethene

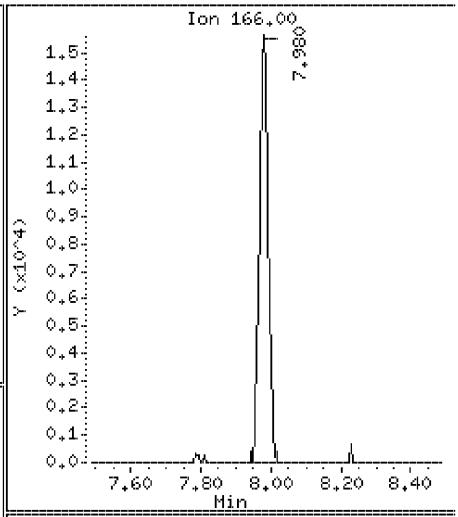
Concentration: 4.88 ppbv

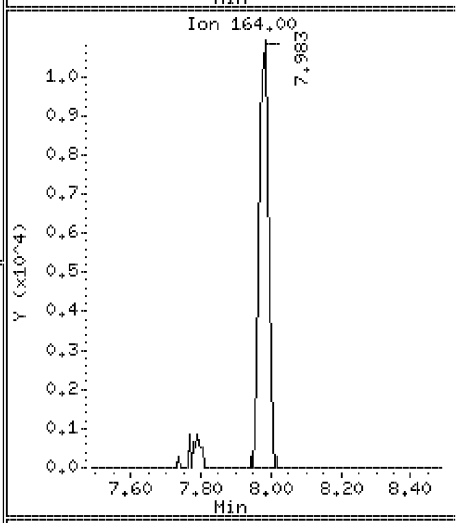


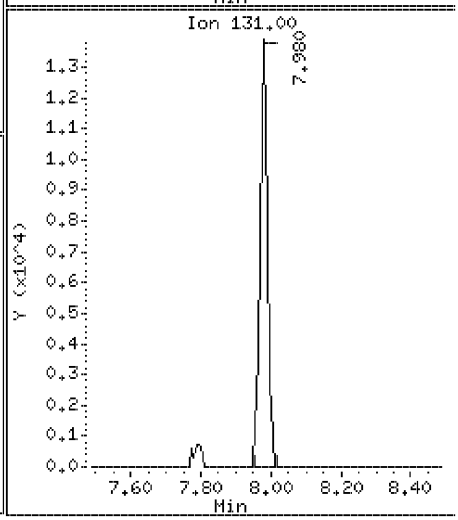












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D

Date : 02-APR-2017 12:01

Client ID:

Instrument: 10airB.i

Sample Info:

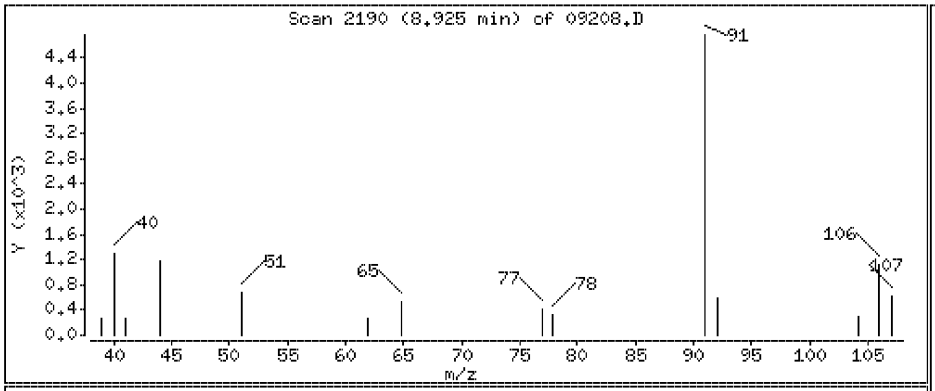
Operator: DR1

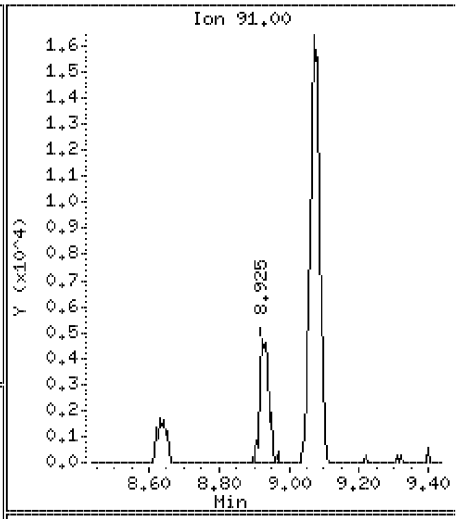
Column phase: J&W DB-5

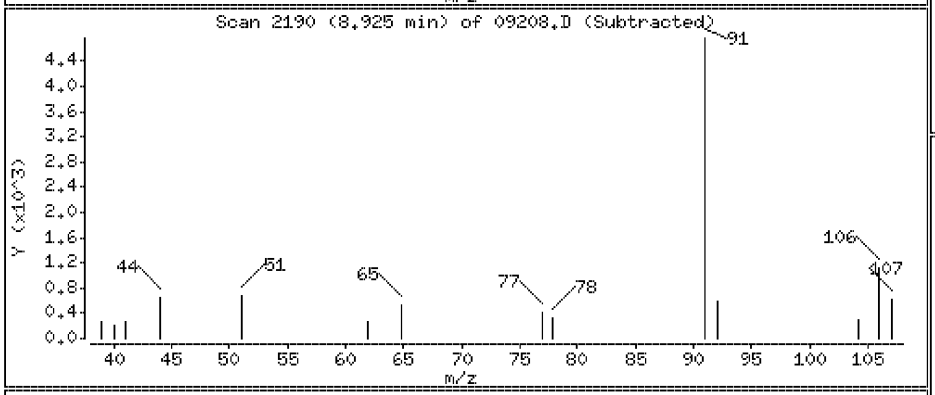
Column diameter: 0.32

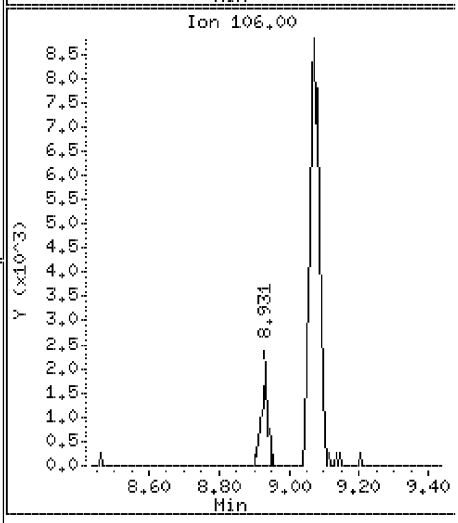
69 Ethyl Benzene

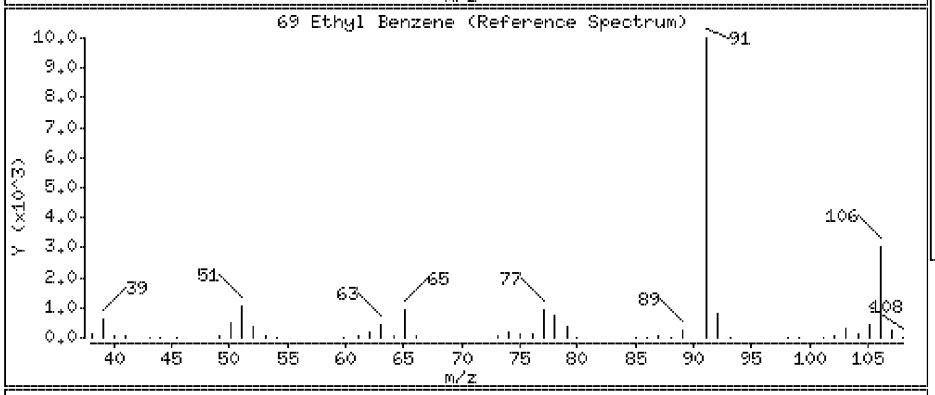
Concentration: 0.643 ppbv

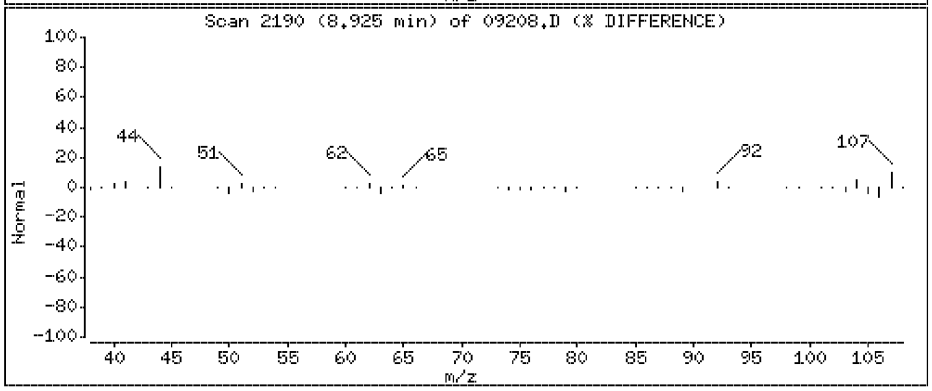












Data File: \\192.168.10.12\chem\10airB.i\040217.b\09208.D

Date : 02-APR-2017 12:01

Client ID:

Instrument: 10airB.i

Sample Info:

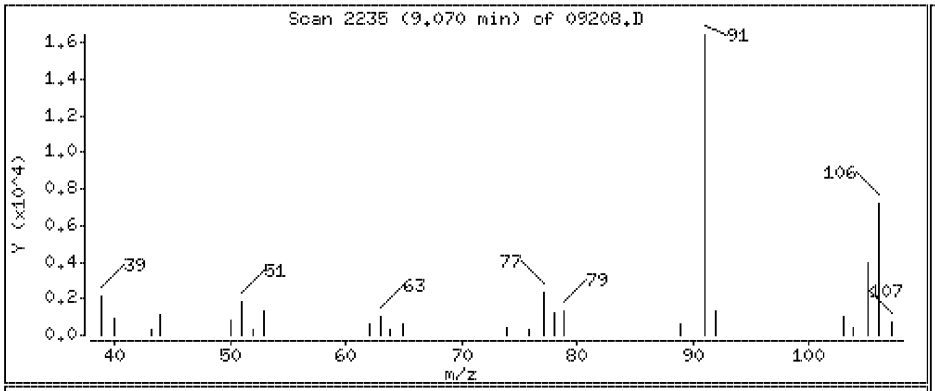
Operator: DR1

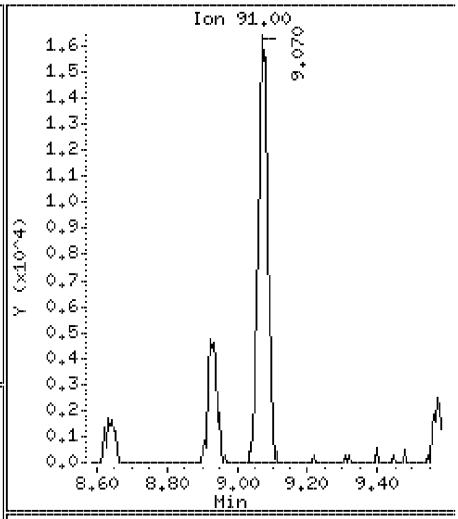
Column phase: J&W DB-5

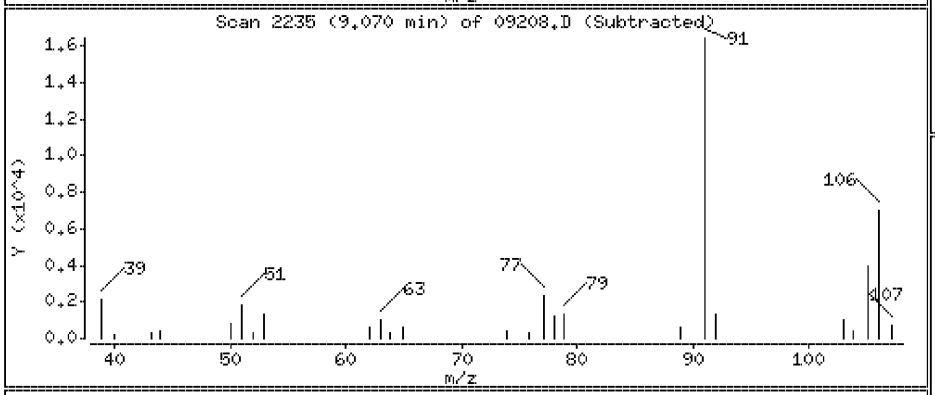
Column diameter: 0.32

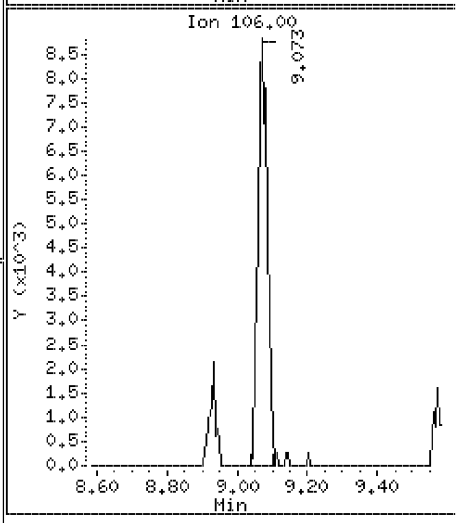
70 m&p-Xylene

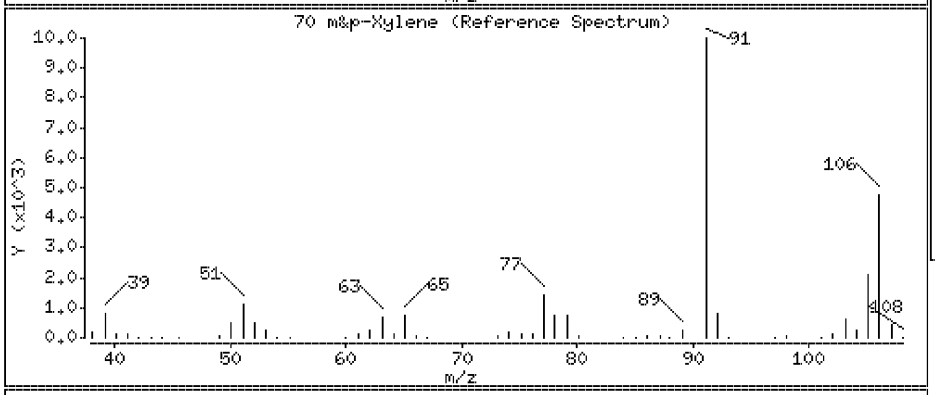
Concentration: 3.11 ppbv

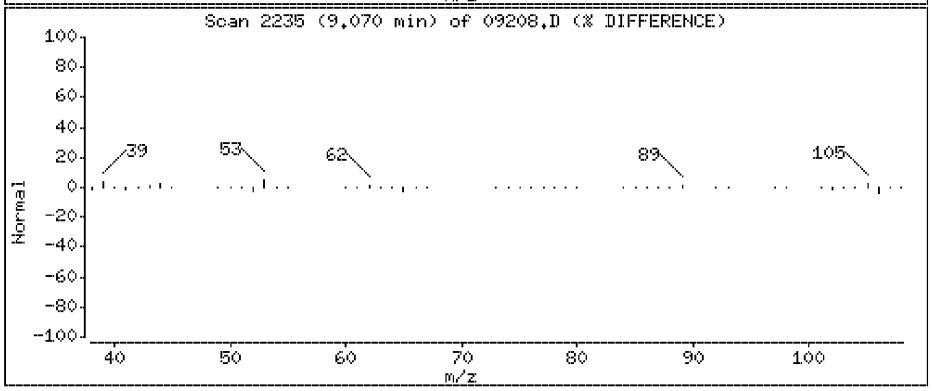












Data File: \\192.168.10.12\chem\10airB.i\040217.b/09208.D
Injection Date: 02-APR-2017 12:01
Instrument: 10airB.i
Lab Sample ID: 10381335024
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_50.5_20170307 **Lab ID: 10381335024** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**0.0J**	ug/m3	45.8		18.3		04/02/17 12:01	67-63-0	
Styrene	**0.0J**	ug/m3	15.9		18.3		04/02/17 12:01	100-42-5	
1,1,2,2-Tetrachloroethane	**0.0J**	ug/m3	12.8		18.3		04/02/17 12:01	79-34-5	
Tetrachloroethene	**33.7**	ug/m3	12.6		18.3		04/02/17 12:01	127-18-4	
Toluene	**27.6**	ug/m3	14.1		18.3		04/02/17 12:01	108-88-3	
1,2,4-Trichlorobenzene	**0.0J**	ug/m3	69.0		18.3		04/02/17 12:01	120-82-1	
1,1,1-Trichloroethane	**0.0J**	ug/m3	20.3		18.3		04/02/17 12:01	71-55-6	
1,1,2-Trichloroethane	**0.0J**	ug/m3	10.1		18.3		04/02/17 12:01	79-00-5	
Trichloroethene	**22.8**	ug/m3	10.1		18.3		04/02/17 12:01	79-01-6	
Trichlorofluoromethane	**0.0J**	ug/m3	20.9		18.3		04/02/17 12:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	**10.3J**	ug/m3	29.3		18.3		04/02/17 12:01	76-13-1	
1,2,4-Trimethylbenzene	**0.0J**	ug/m3	18.3		18.3		04/02/17 12:01	95-63-6	
1,3,5-Trimethylbenzene	**0.0J**	ug/m3	18.3		18.3		04/02/17 12:01	108-67-8	
Vinyl chloride	**0.0J**	ug/m3	4.8		18.3		04/02/17 12:01	75-01-4	
m&p-Xylene	**13.7J**	ug/m3	32.4		18.3		04/02/17 12:01	179601-23-1	
o-Xylene	**0.0J**	ug/m3	16.1		18.3		04/02/17 12:01	95-47-6	

Sample: VP-3D_73_20170307DUP **Lab ID: 10381335025** Collected: 03/07/17 12:04 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.3J**	ug/m3	19.4	6.7	8.05		03/29/17 02:28	67-64-1	
Allyl chloride	**<1.8**	ug/m3	12.8	1.8	8.05		03/29/17 02:28	107-05-1	
Benzene	**<0.98**	ug/m3	2.6	0.98	8.05		03/29/17 02:28	71-43-2	
Bromodichloromethane	**<1.6**	ug/m3	10.9	1.6	8.05		03/29/17 02:28	75-27-4	
Bromoform	**<7.3**	ug/m3	16.9	7.3	8.05		03/29/17 02:28	75-25-2	
Bromomethane	**<2.5**	ug/m3	6.4	2.5	8.05		03/29/17 02:28	74-83-9	
1,3-Butadiene	**<1.4**	ug/m3	3.6	1.4	8.05		03/29/17 02:28	106-99-0	
2-Butanone (MEK)	**<1.8**	ug/m3	24.2	1.8	8.05		03/29/17 02:28	78-93-3	
Carbon disulfide	**<0.81**	ug/m3	5.1	0.81	8.05		03/29/17 02:28	75-15-0	
Carbon tetrachloride	**<1.6**	ug/m3	5.2	1.6	8.05		03/29/17 02:28	56-23-5	
Chlorobenzene	**<1.1**	ug/m3	7.6	1.1	8.05		03/29/17 02:28	108-90-7	
Chlorodifluoromethane	**9.7**	ug/m3	5.8	2.2	8.05		03/29/17 02:28	75-45-6	
Chloroethane	**<1.6**	ug/m3	4.3	1.6	8.05		03/29/17 02:28	75-00-3	
Chloroform	**5.3**	ug/m3	4.0	1.5	8.05		03/29/17 02:28	67-66-3	
Chloromethane	**<0.87**	ug/m3	3.4	0.87	8.05		03/29/17 02:28	74-87-3	
Chloropentafluoroethane	**<25.8**	ug/m3	25.8	25.8	8.05		03/29/17 02:28	76-15-3	
Cyclohexane	**<2.5**	ug/m3	5.6	2.5	8.05		03/29/17 02:28	110-82-7	
1,2-Dibromo-3-chloropropane	**<39.5**	ug/m3	39.5	39.5	8.05		03/29/17 02:28	96-12-8	
Dibromochloromethane	**<6.9**	ug/m3	13.9	6.9	8.05		03/29/17 02:28	124-48-1	
1,2-Dibromoethane (EDB)	**<6.2**	ug/m3	12.6	6.2	8.05		03/29/17 02:28	106-93-4	
1,2-Dichlorobenzene	**<4.1**	ug/m3	9.8	4.1	8.05		03/29/17 02:28	95-50-1	
1,3-Dichlorobenzene	**<4.3**	ug/m3	9.8	4.3	8.05		03/29/17 02:28	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_73_20170307DUP **Lab ID: 10381335025** Collected: 03/07/17 12:04 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<4.0**	ug/m3	9.8	4.0	8.05		03/29/17 02:28	106-46-7	
Dichlorodifluoromethane	**7.2J**	ug/m3	8.1	3.9	8.05		03/29/17 02:28	75-71-8	
1,1-Dichloroethane	**<1.3**	ug/m3	6.6	1.3	8.05		03/29/17 02:28	75-34-3	
1,2-Dichloroethane	**<1.7**	ug/m3	3.3	1.7	8.05		03/29/17 02:28	107-06-2	
1,1-Dichloroethene	**<1.9**	ug/m3	6.5	1.9	8.05		03/29/17 02:28	75-35-4	
cis-1,2-Dichloroethene	**18.3**	ug/m3	6.5	2.0	8.05		03/29/17 02:28	156-59-2	
trans-1,2-Dichloroethene	**<3.1**	ug/m3	6.5	3.1	8.05		03/29/17 02:28	156-60-5	
1,2-Dichloropropane	**<2.2**	ug/m3	7.6	2.2	8.05		03/29/17 02:28	78-87-5	
cis-1,3-Dichloropropene	**<3.0**	ug/m3	7.4	3.0	8.05		03/29/17 02:28	10061-01-5	
trans-1,3-Dichloropropene	**<2.1**	ug/m3	18.6	2.1	8.05		03/29/17 02:28	10061-02-6	
Dichlorotetrafluoroethane	**<2.5**	ug/m3	11.4	2.5	8.05		03/29/17 02:28	76-14-2	
Freon 123	**<25.6**	ug/m3	25.6	25.6	8.05		03/29/17 02:28	306-83-2	
1,4-Dioxane (p-Dioxane)	**<2.8**	ug/m3	29.5	2.8	8.05		03/29/17 02:28	123-91-1	
Ethylbenzene	**<3.4**	ug/m3	7.1	3.4	8.05		03/29/17 02:28	100-41-4	
4-Ethyltoluene	**<1.5**	ug/m3	8.0	1.5	8.05		03/29/17 02:28	622-96-8	
Hexachloro-1,3-butadiene	**<5.2**	ug/m3	17.5	5.2	8.05		03/29/17 02:28	87-68-3	
n-Hexane	**<2.9**	ug/m3	5.8	2.9	8.05		03/29/17 02:28	110-54-3	
2-Hexanone	**<3.3**	ug/m3	33.5	3.3	8.05		03/29/17 02:28	591-78-6	
Isopropylbenzene (Cumene)	**<1.1**	ug/m3	20.1	1.1	8.05		03/29/17 02:28	98-82-8	
Methyl acetate	**<12.4**	ug/m3	12.4	12.4	8.05		03/29/17 02:28	79-20-9	
Methylcyclohexane	**<1.9**	ug/m3	6.6	1.9	8.05		03/29/17 02:28	108-87-2	
Methylene Chloride	**<4.4**	ug/m3	28.4	4.4	8.05		03/29/17 02:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.7**	ug/m3	33.5	1.7	8.05		03/29/17 02:28	108-10-1	
Methyl-tert-butyl ether	**<2.4**	ug/m3	29.5	2.4	8.05		03/29/17 02:28	1634-04-4	
2-Propanol	**<1.9**	ug/m3	20.1	1.9	8.05		03/29/17 02:28	67-63-0	
Styrene	**<1.6**	ug/m3	7.0	1.6	8.05		03/29/17 02:28	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.6**	ug/m3	5.6	2.6	8.05		03/29/17 02:28	79-34-5	
Tetrachloroethene	**480**	ug/m3	5.5	2.2	8.05		03/29/17 02:28	127-18-4	
Toluene	**<1.2**	ug/m3	6.2	1.2	8.05		03/29/17 02:28	108-88-3	
1,2,4-Trichlorobenzene	**<7.3**	ug/m3	30.3	7.3	8.05		03/29/17 02:28	120-82-1	
1,1,1-Trichloroethane	**5.6J**	ug/m3	8.9	2.0	8.05		03/29/17 02:28	71-55-6	
1,1,2-Trichloroethane	**<2.0**	ug/m3	4.4	2.0	8.05		03/29/17 02:28	79-00-5	
Trichloroethene	**237**	ug/m3	4.4	2.2	8.05		03/29/17 02:28	79-01-6	
Trichlorofluoromethane	**<1.1**	ug/m3	9.2	1.1	8.05		03/29/17 02:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	**31.8**	ug/m3	12.9	2.4	8.05		03/29/17 02:28	76-13-1	
1,2,4-Trimethylbenzene	**<1.0**	ug/m3	8.0	1.0	8.05		03/29/17 02:28	95-63-6	
1,3,5-Trimethylbenzene	**<1.5**	ug/m3	8.0	1.5	8.05		03/29/17 02:28	108-67-8	
Vinyl chloride	**<1.6**	ug/m3	2.1	1.6	8.05		03/29/17 02:28	75-01-4	
m&p-Xylene	**<6.3**	ug/m3	14.2	6.3	8.05		03/29/17 02:28	179601-23-1	
o-Xylene	**<2.8**	ug/m3	7.1	2.8	8.05		03/29/17 02:28	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D
Report Date: 03-Apr-2017 15:14

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08735.D
Lab Smp Id: 10381335025
Inj Date : 29-MAR-2017 02:28
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 35
Dil Factor: 8.05000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	8.050	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	3.024	2.996	(0.540)	4080	0.33668	2.71	(Q)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.028	(0.546)	23227	0.17815	1.43	(H)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						(D)
12	Ethanol	45	3.561	3.539	(0.636)	4976	0.31684	2.55	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						(D)
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.732	3.713	(0.667)	42364	0.68459	5.51	
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.934	3.938	(0.703)	37168	0.50715	4.08	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D
Report Date: 03-Apr-2017 15:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						(D)
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.478	(0.800)	863560	9.71896	9.72	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	4.700	4.722	(0.840)	22148	0.56373	4.54(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.838	(0.860)	10335	0.13261	1.07	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	5.217	5.227	(0.932)	12677	0.12525	1.01	
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	2368600	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						(D)
	51 Trichloroethene	130	5.970	5.986	(1.067)	386590	5.39188	43.4	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.073	(1.263)	1931541	9.67296	9.67	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	781736	8.64445	69.6	
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1380810	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D
Report Date: 03-Apr-2017 15:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	525688	8.01971	8.02
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D
Report Date: 03-Apr-2017 15:14

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08735.D
Lab Smp Id: 10381335025
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

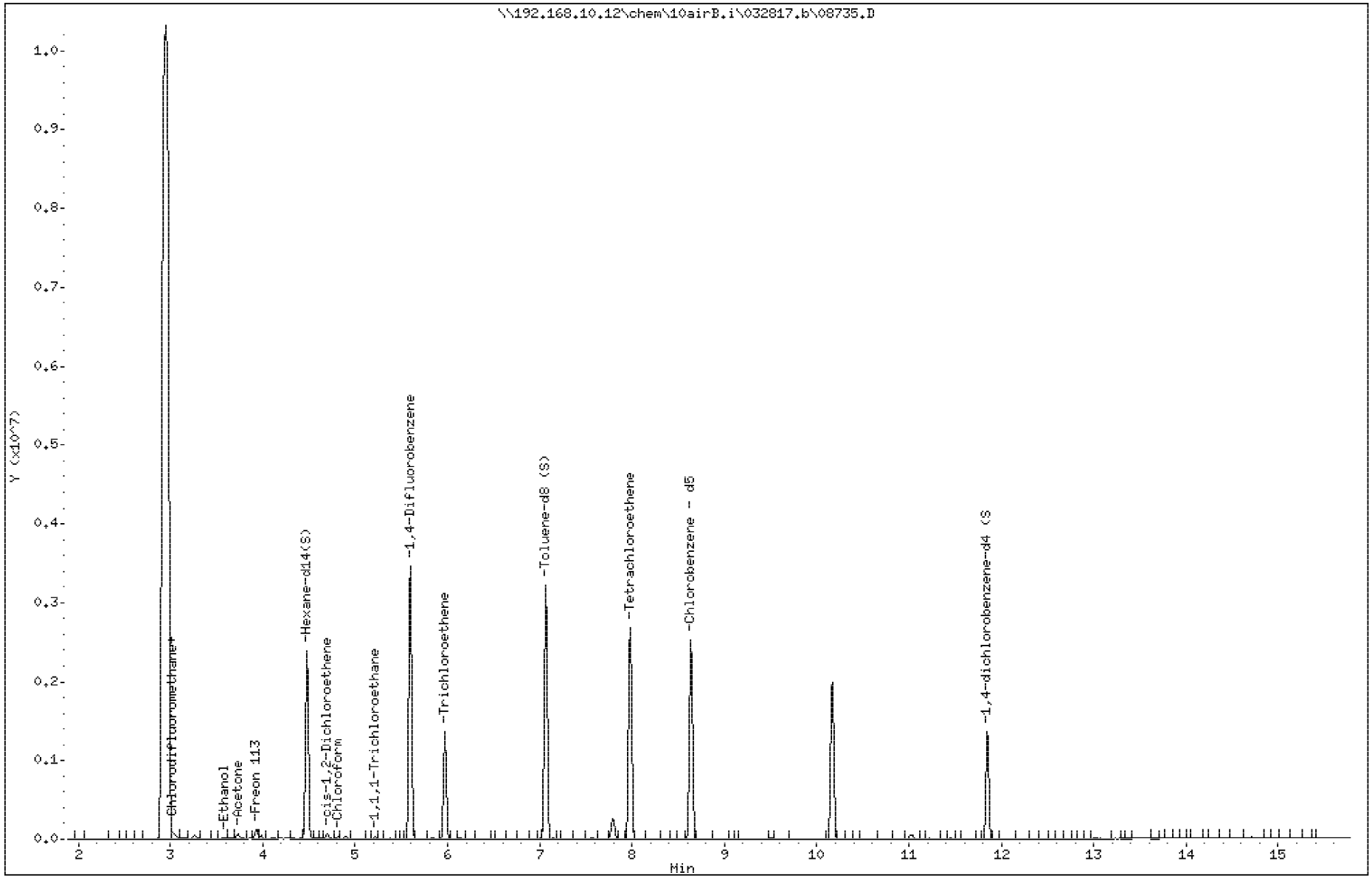
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2368600	-16.36
67 Chlorobenzene - d	1804482	1082689	2526275	1380810	-23.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D
Date : 29-MAR-2017 02:28
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D

Date : 29-MAR-2017 02:28

Client ID:

Instrument: 10airB.i

Sample Info:

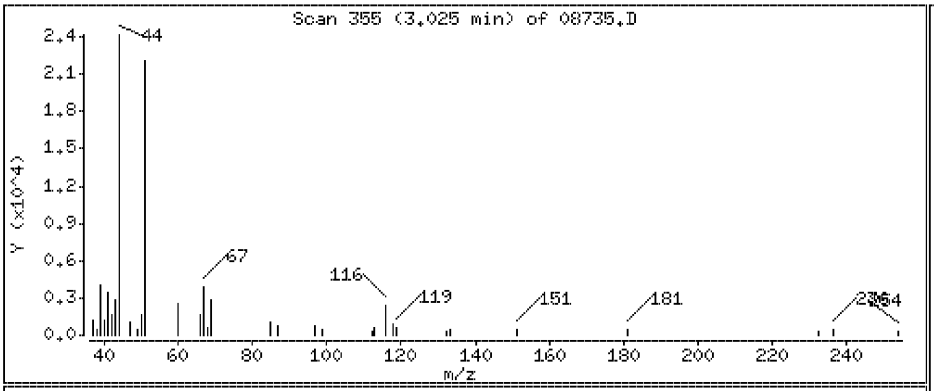
Operator: NCK

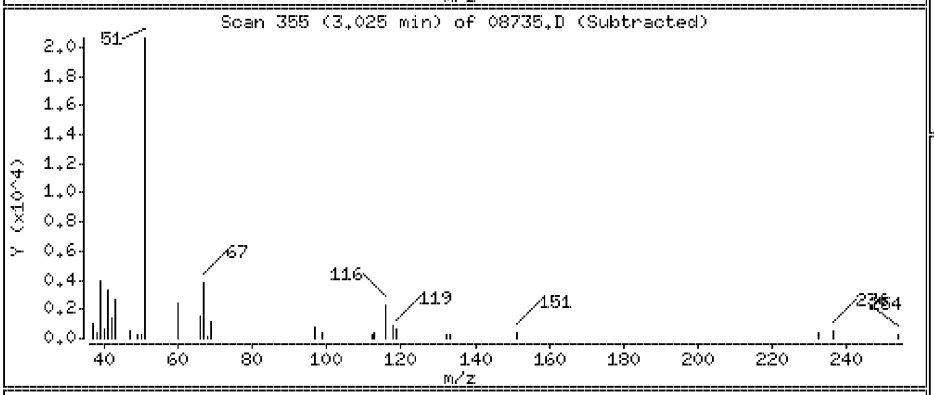
Column phase: J&W DB-5

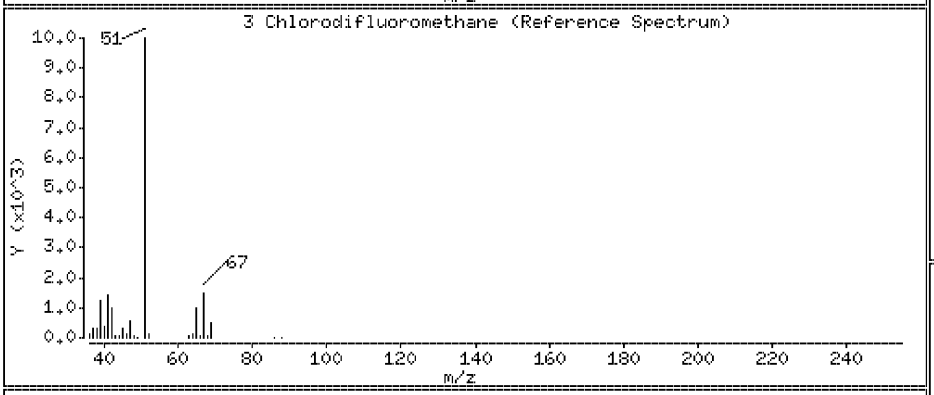
Column diameter: 0.32

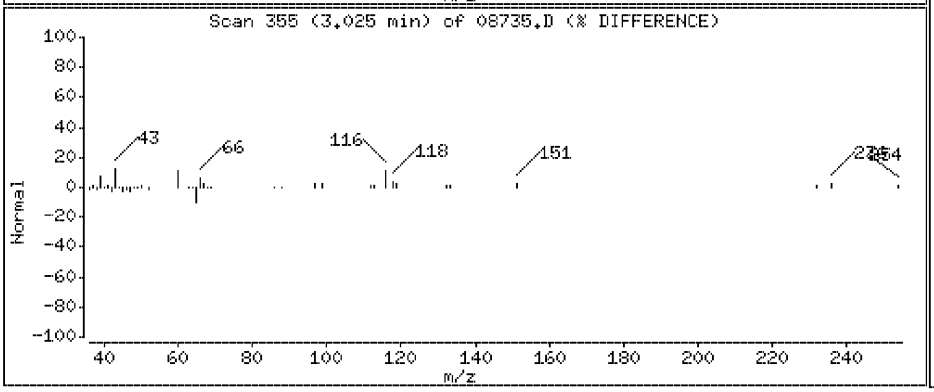
3 Chlorodifluoromethane

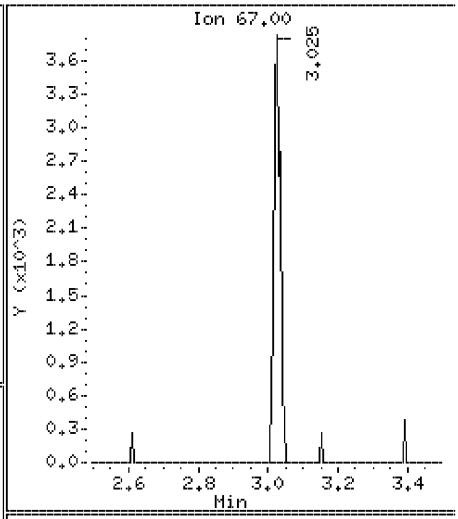
Concentration: 2.71 ppbv

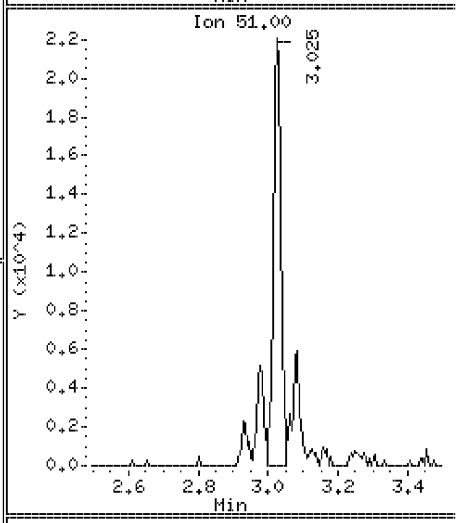


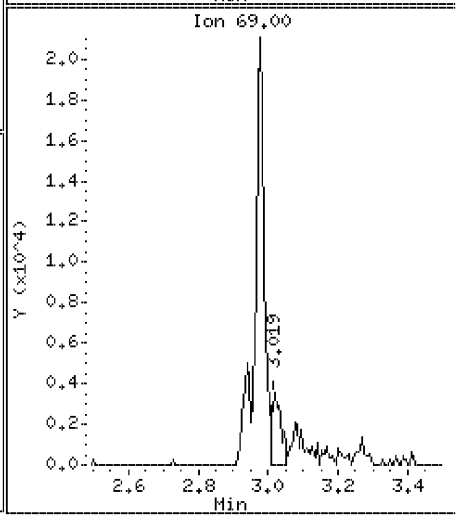












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D

Date : 29-MAR-2017 02:28

Client ID:

Instrument: 10airB.i

Sample Info:

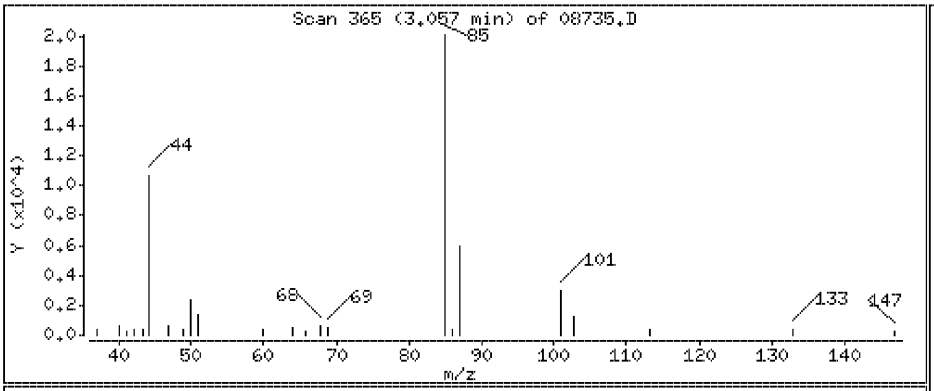
Operator: NCK

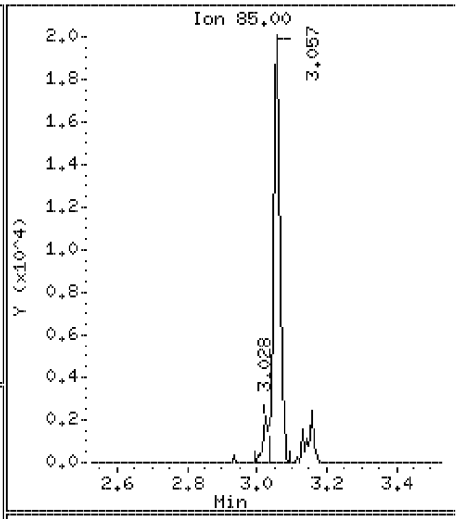
Column phase: J&W DB-5

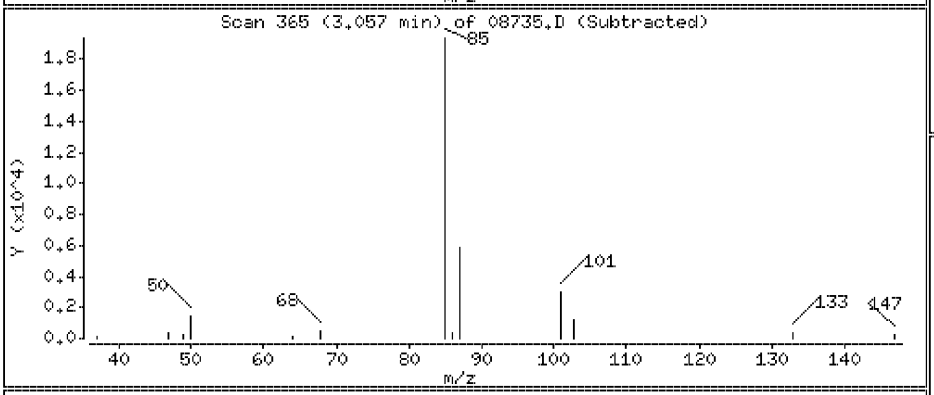
Column diameter: 0.32

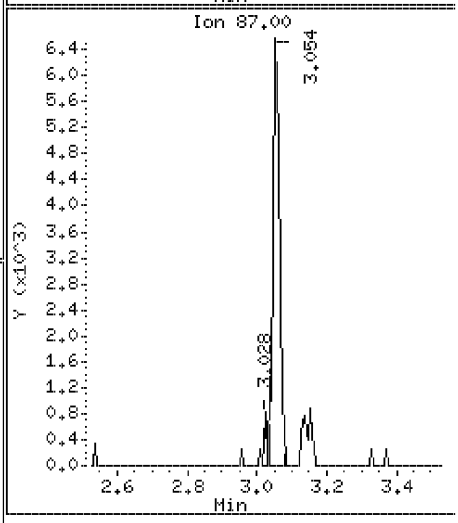
5 Dichlorodifluoromethane

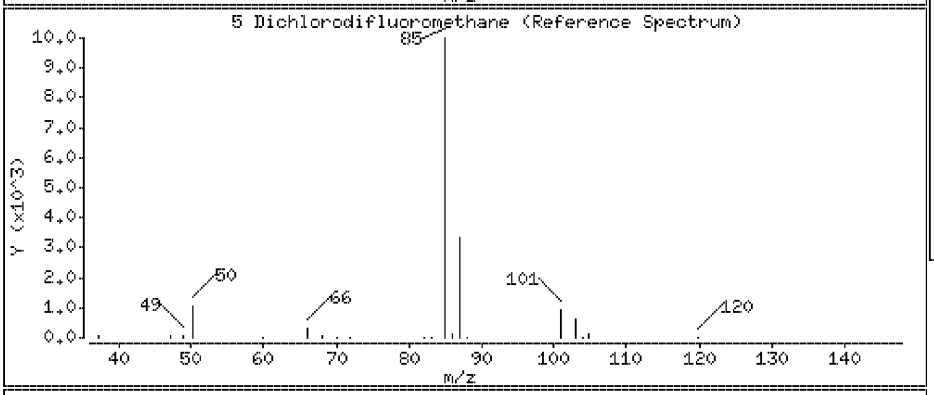
Concentration: 1.43 ppbv

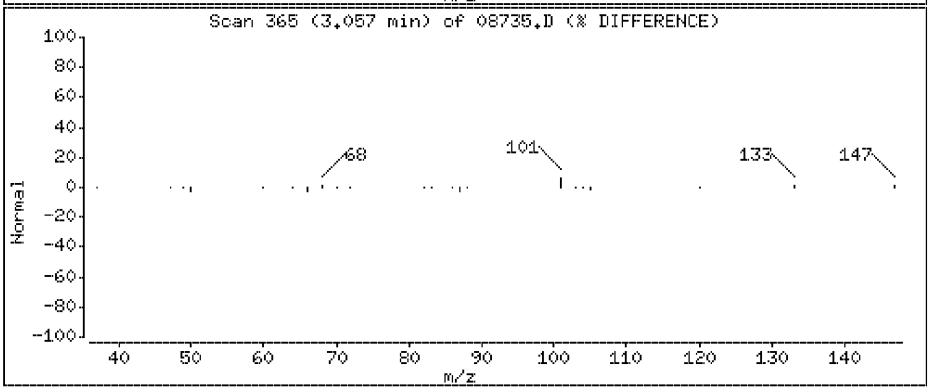












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D

Date : 29-MAR-2017 02:28

Client ID:

Instrument: 10airB.i

Sample Info:

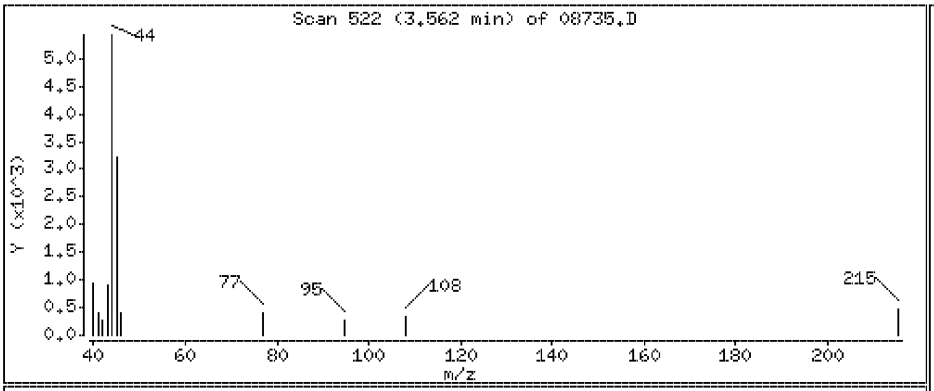
Operator: NCK

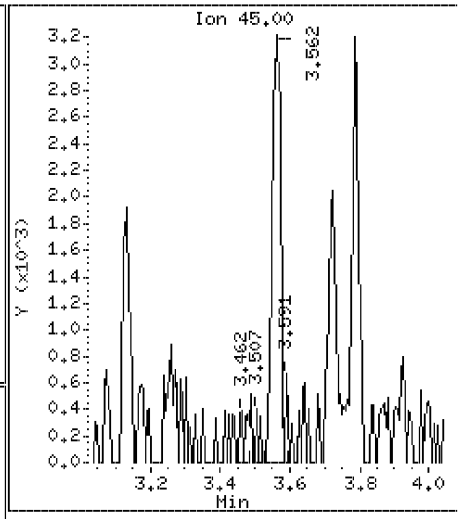
Column phase: J&W DB-5

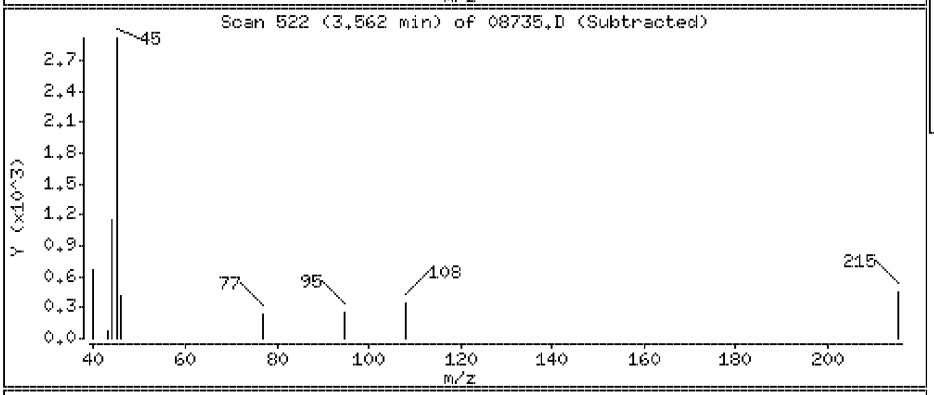
Column diameter: 0.32

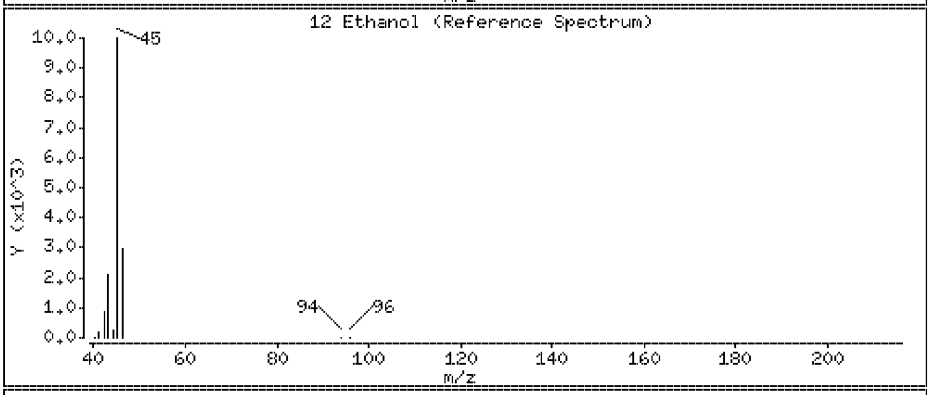
12 Ethanol

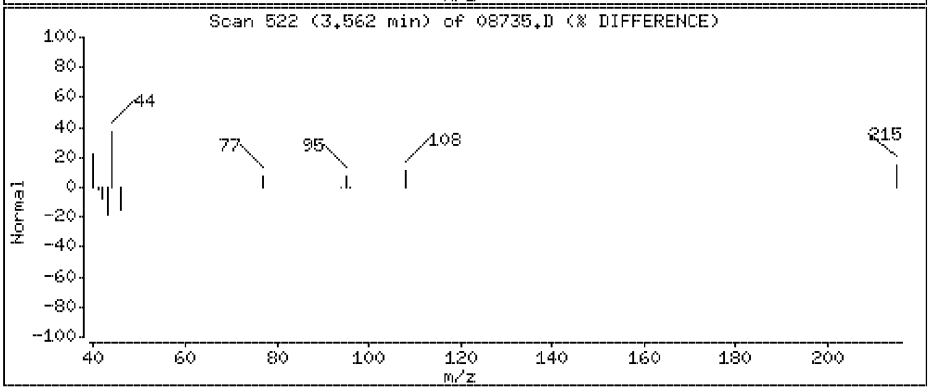
Concentration: 2.55 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D

Date : 29-MAR-2017 02:28

Client ID:

Instrument: 10airB.i

Sample Info:

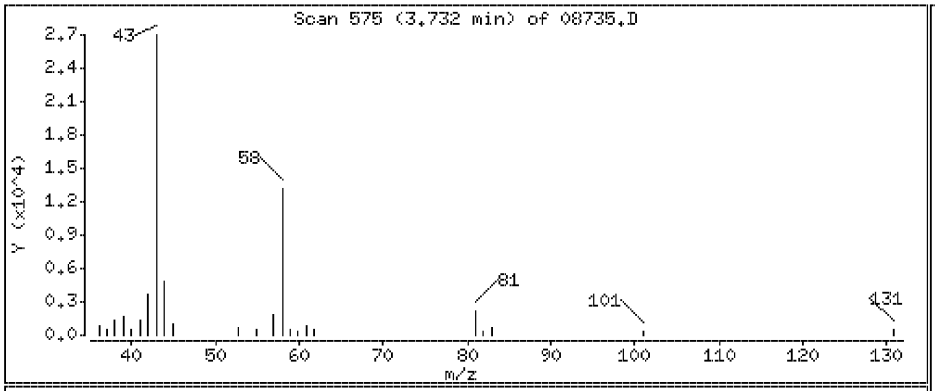
Operator: NCK

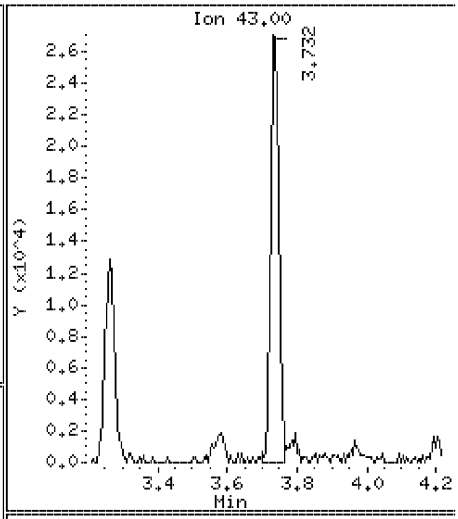
Column phase: J&W DB-5

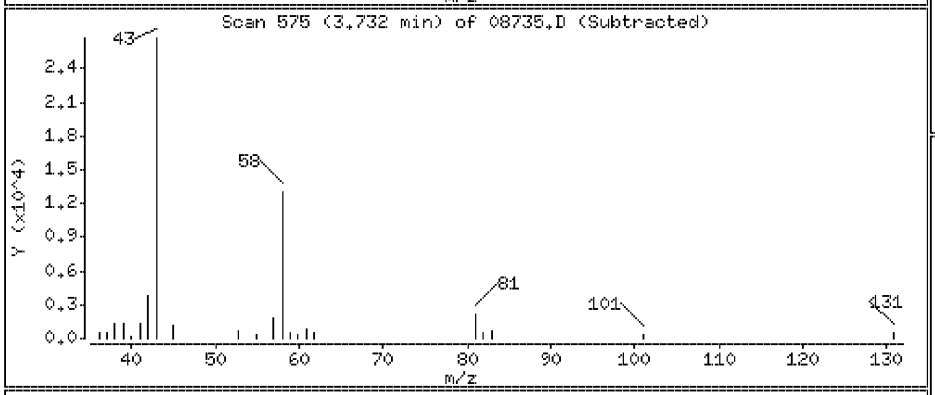
Column diameter: 0.32

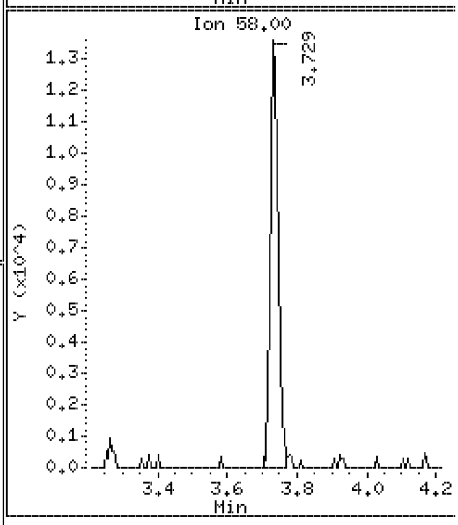
18 Acetone

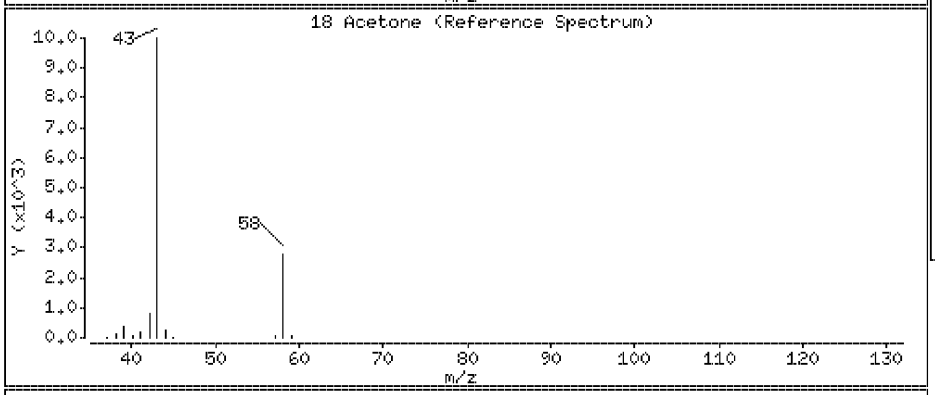
Concentration: 5.51 ppbv

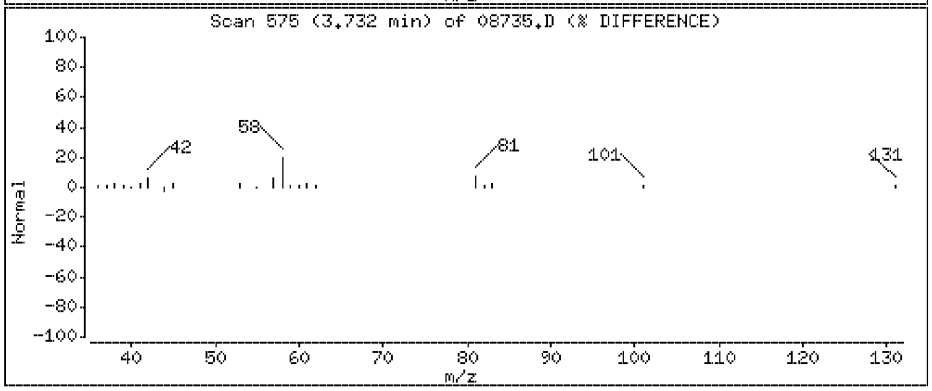












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D

Date : 29-MAR-2017 02:28

Client ID:

Instrument: 10airB.i

Sample Info:

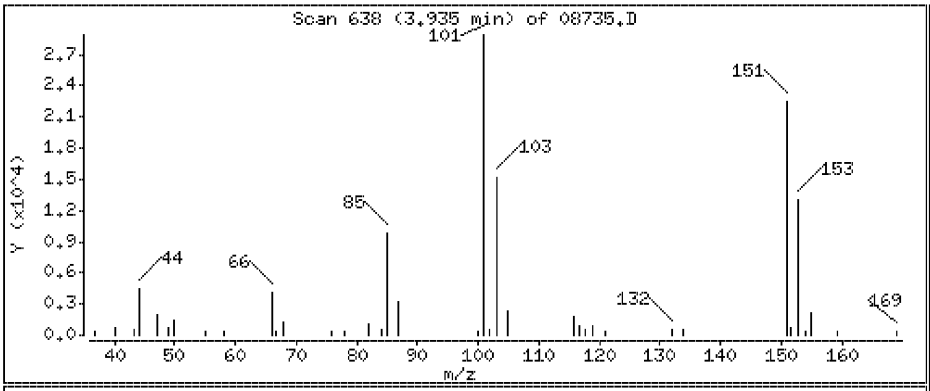
Operator: NCK

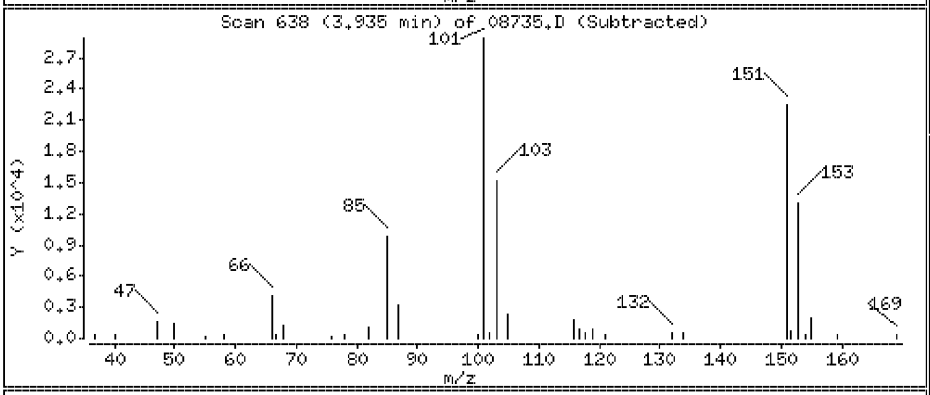
Column phase: J&W DB-5

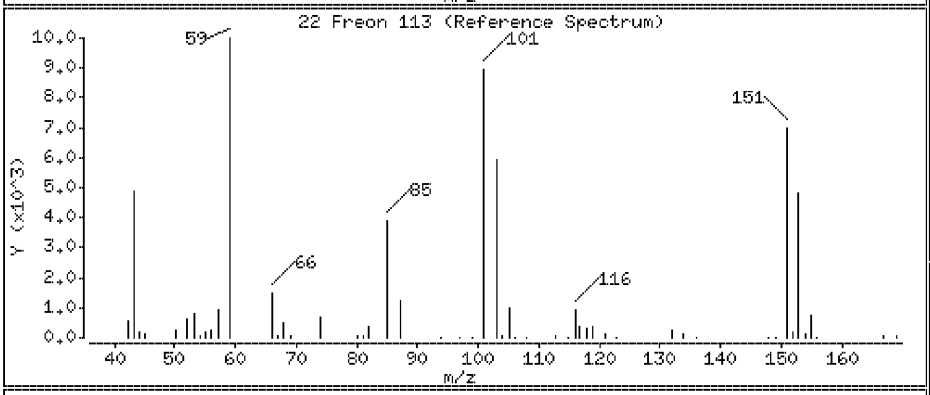
Column diameter: 0.32

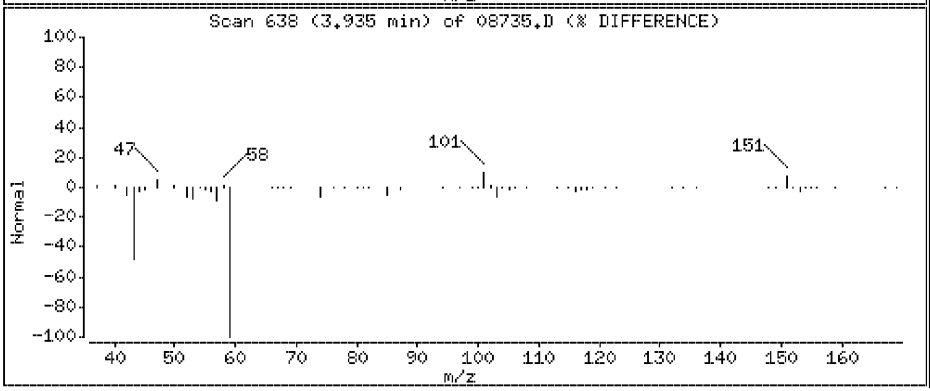
22 Freon 113

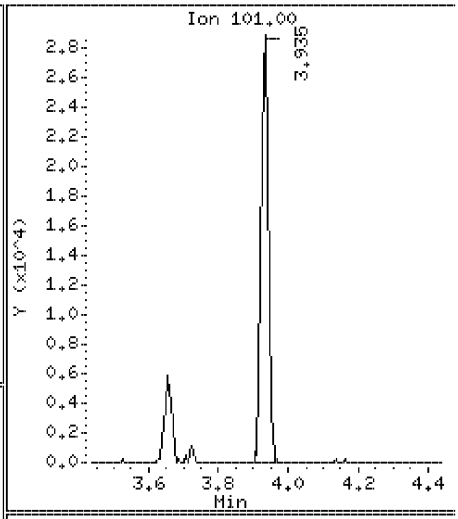
Concentration: 4.08 ppbv

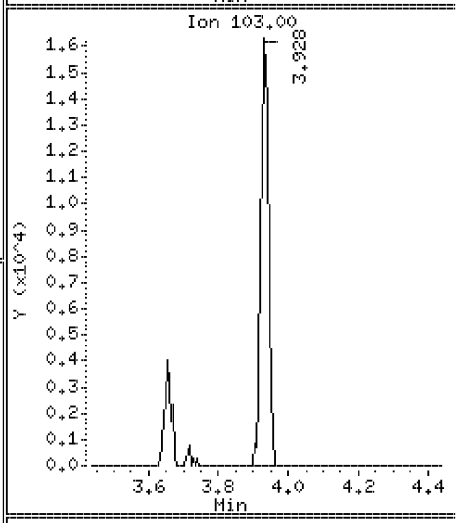


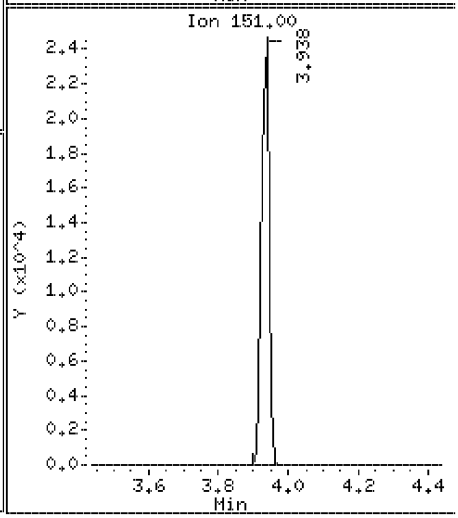












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D

Date : 29-MAR-2017 02:28

Client ID:

Instrument: 10airB.i

Sample Info:

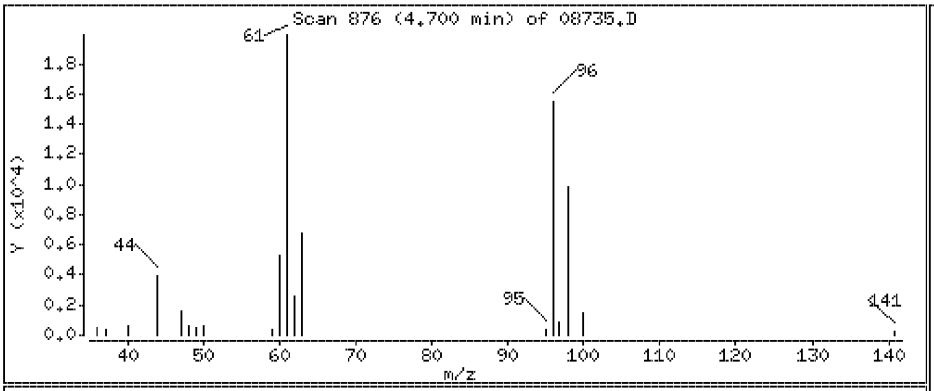
Operator: NCK

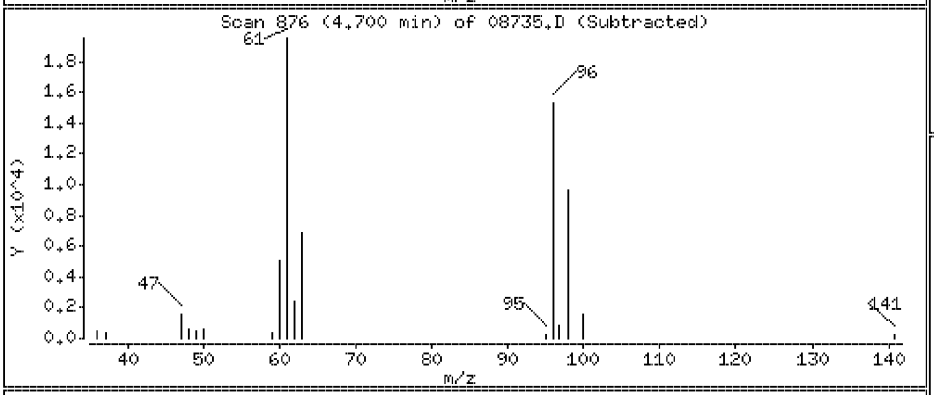
Column phase: J&W DB-5

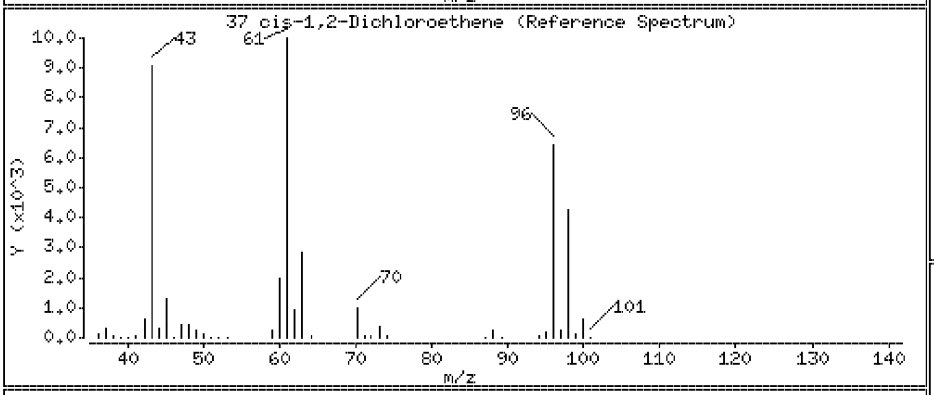
Column diameter: 0.32

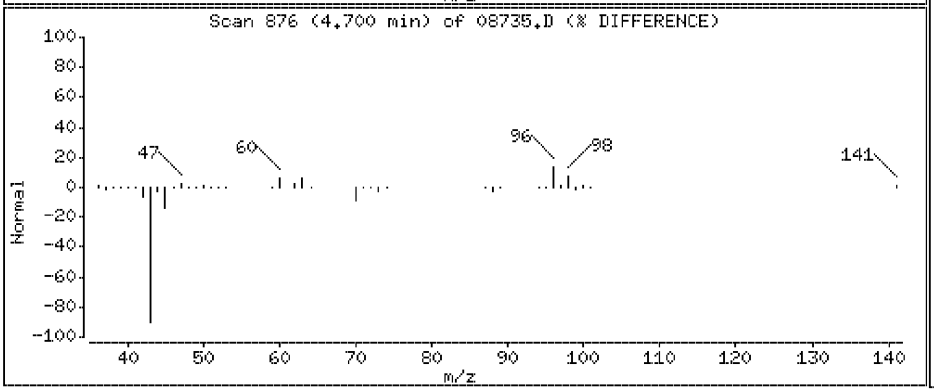
37 cis-1,2-Dichloroethene

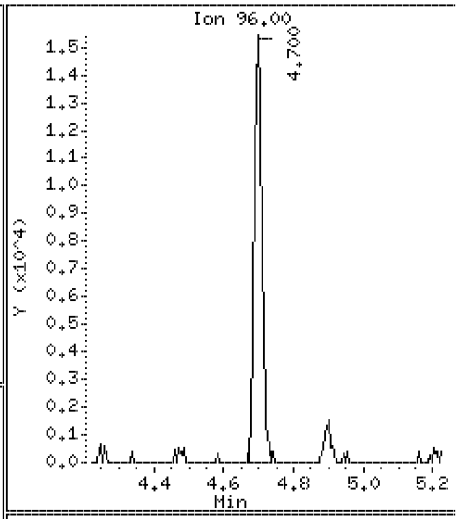
Concentration: 4.54 ppbv

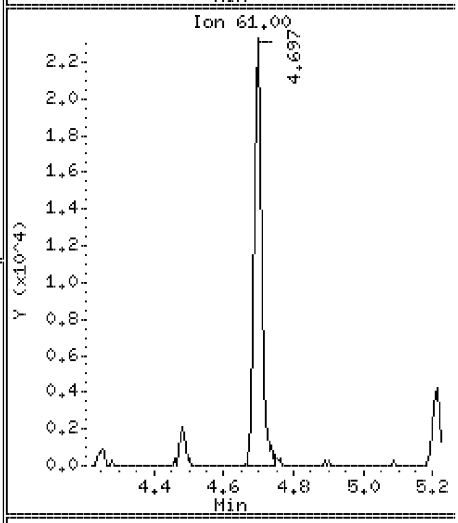


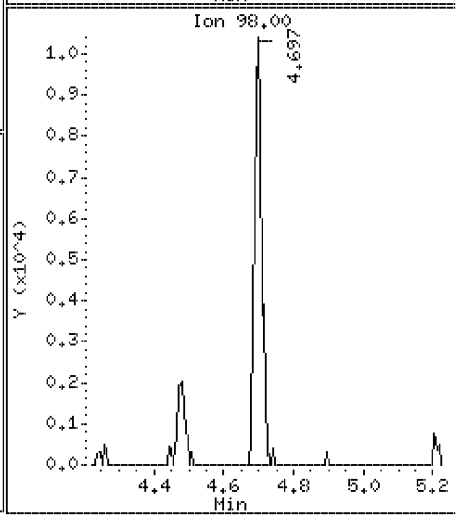












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D

Date : 29-MAR-2017 02:28

Client ID:

Instrument: 10airB.i

Sample Info:

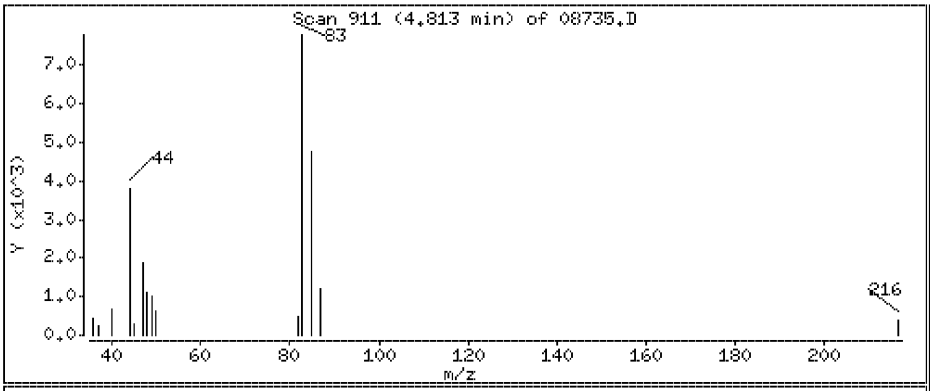
Operator: NCK

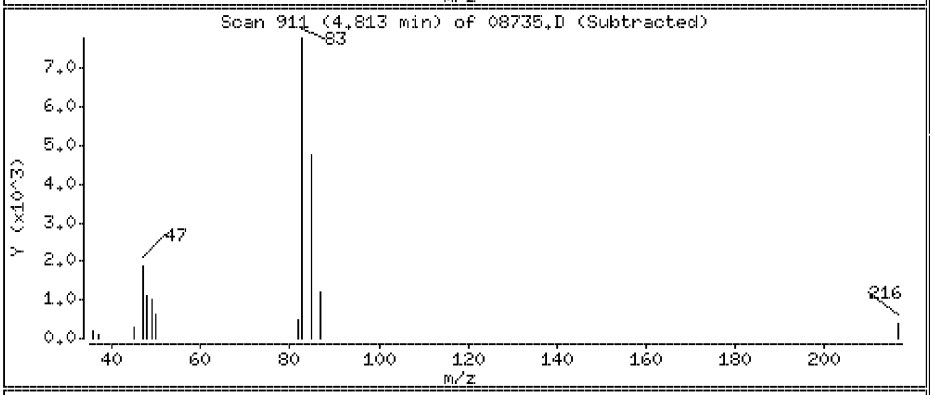
Column phase: J&W DB-5

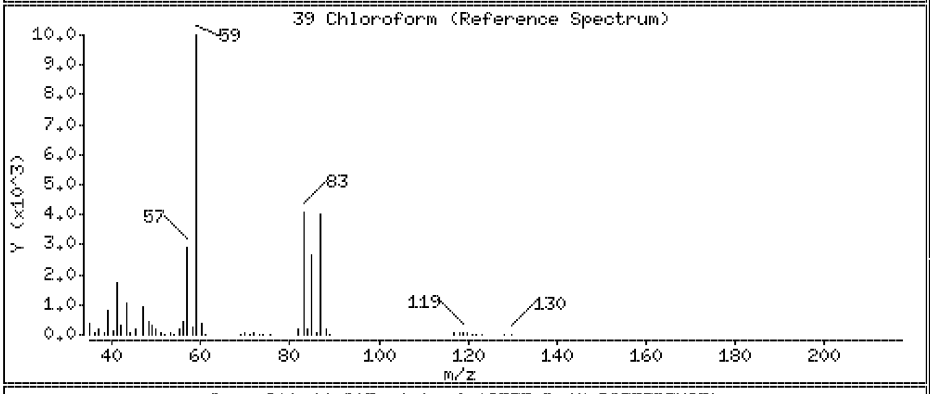
Column diameter: 0.32

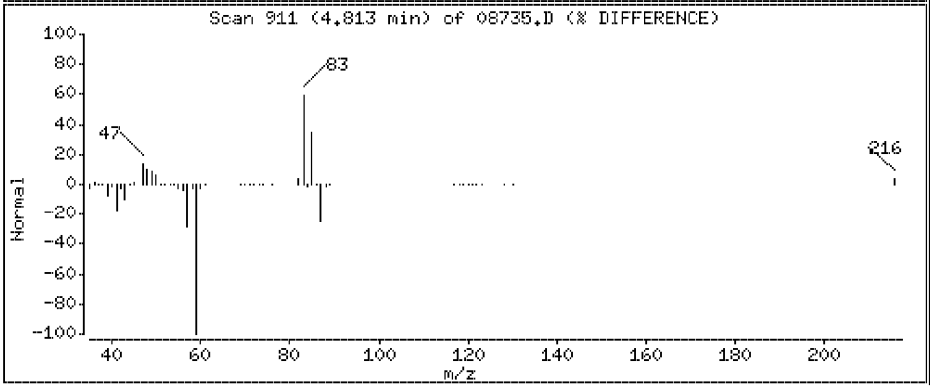
39 Chloroform

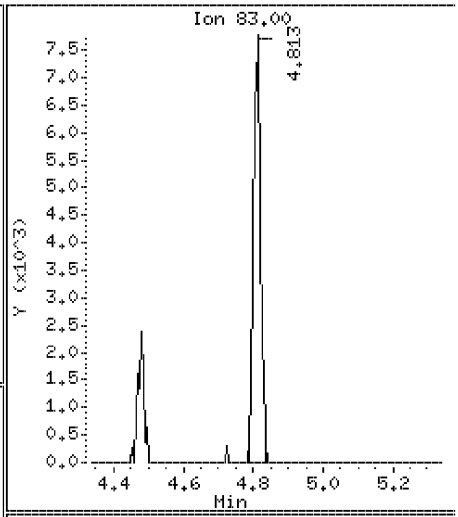
Concentration: 1.07 ppbv

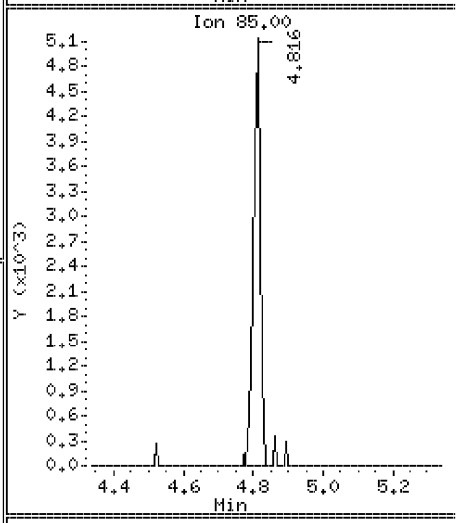


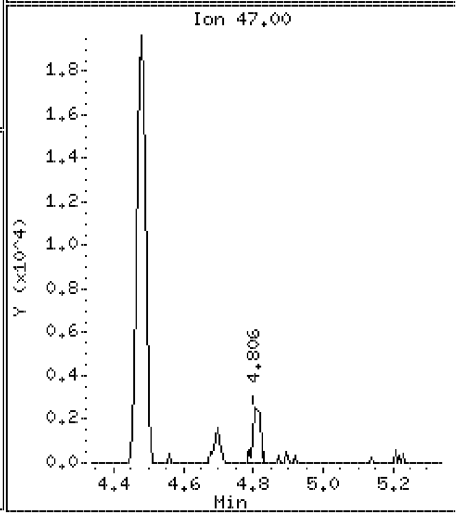












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D

Date : 29-MAR-2017 02:28

Client ID:

Instrument: 10airB.i

Sample Info:

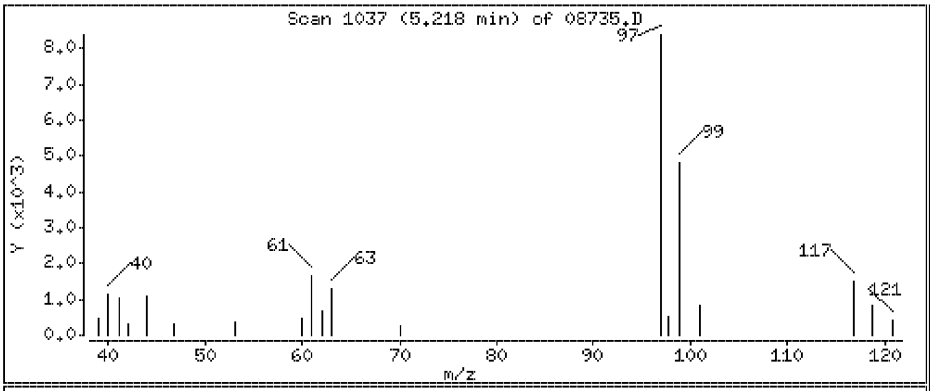
Operator: NCK

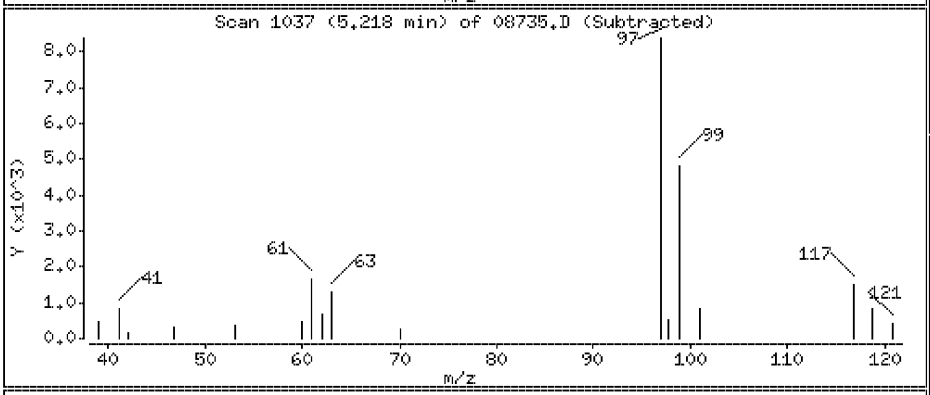
Column phase: J&W DB-5

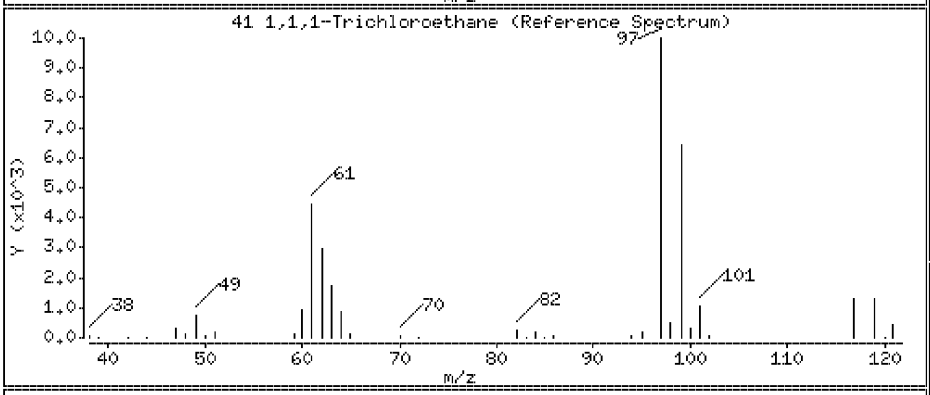
Column diameter: 0.32

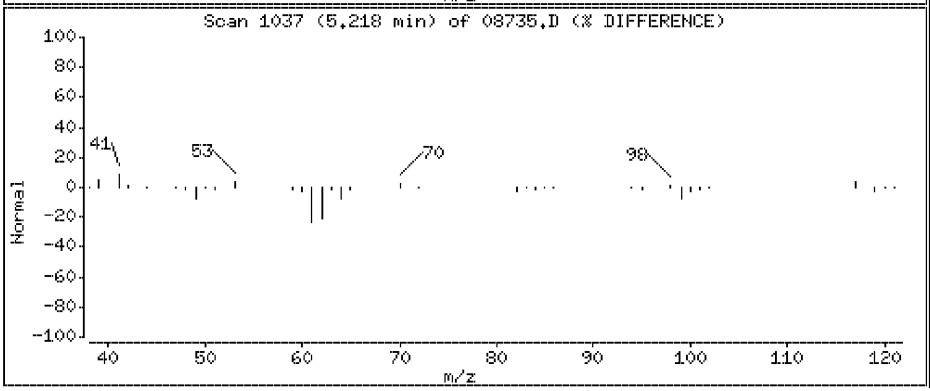
41 1,1,1-Trichloroethane

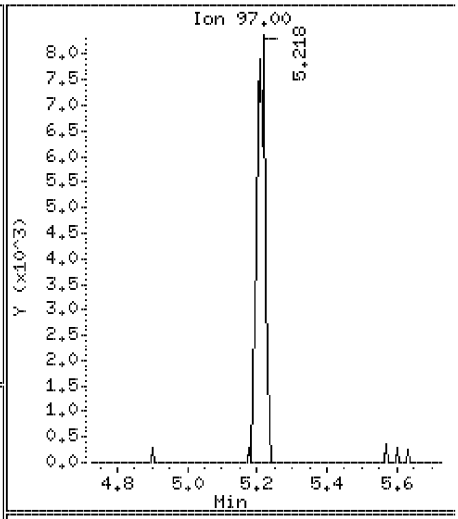
Concentration: 1.01 ppbv

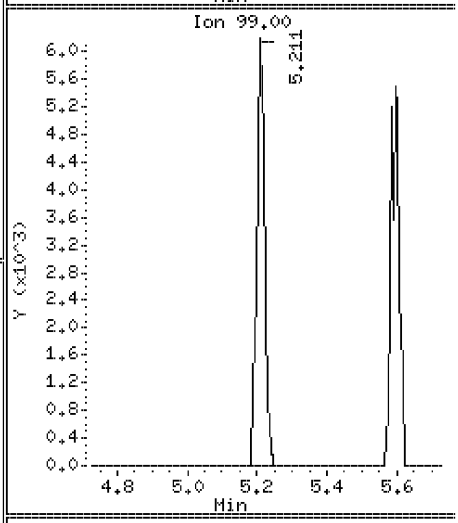


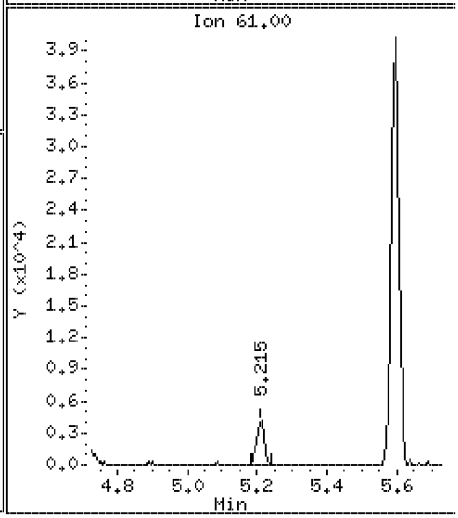












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D

Date : 29-MAR-2017 02:28

Client ID:

Instrument: 10airB.i

Sample Info:

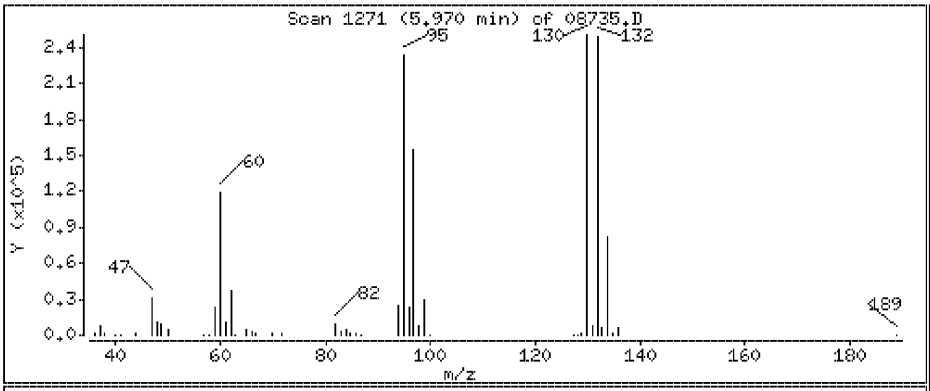
Operator: NCK

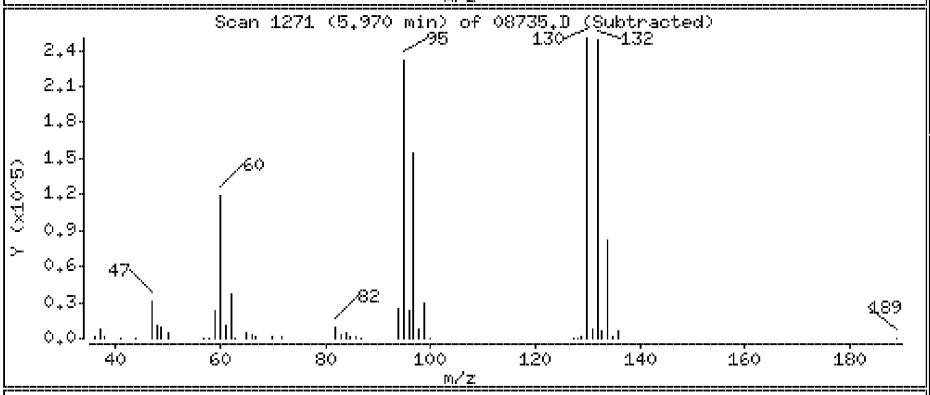
Column phase: J&W DB-5

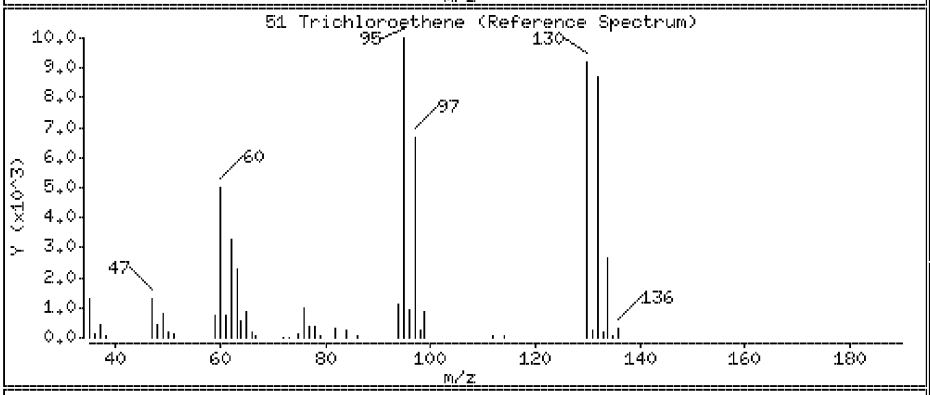
Column diameter: 0.32

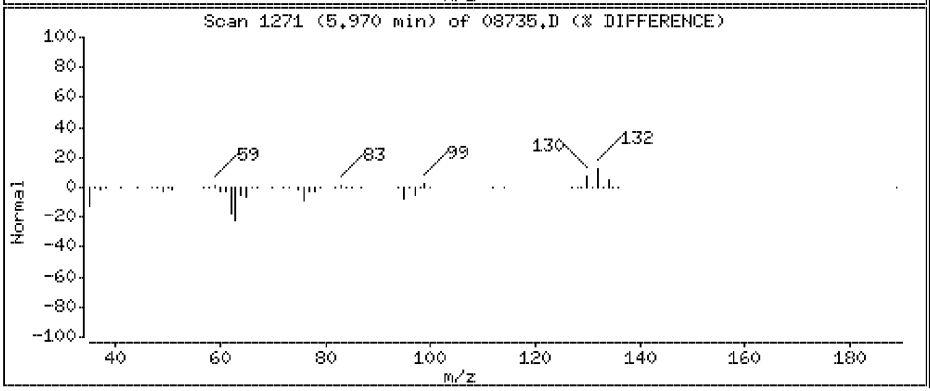
51 Trichloroethene

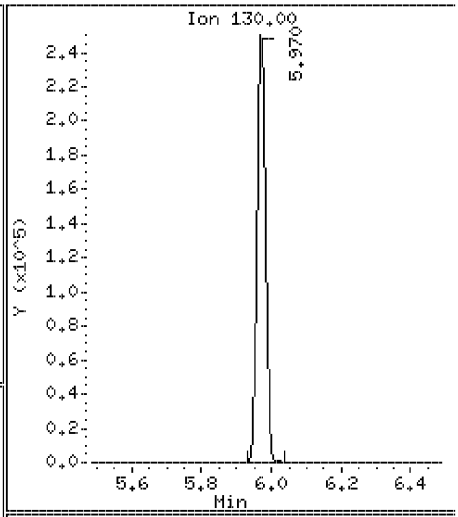
Concentration: 43.4 ppbv

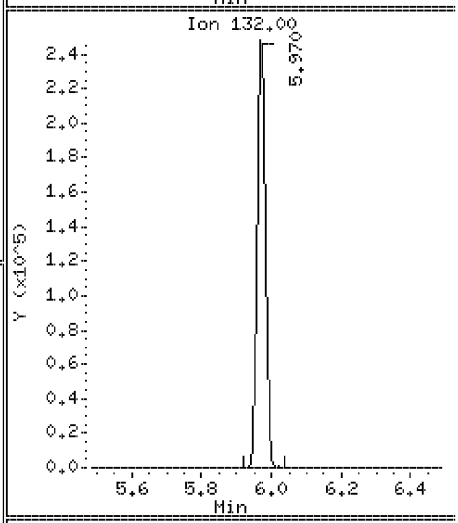


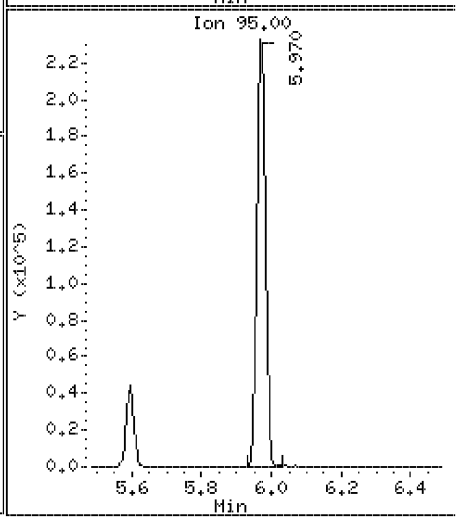












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08735.D

Date : 29-MAR-2017 02:28

Client ID:

Instrument: 10airB.i

Sample Info:

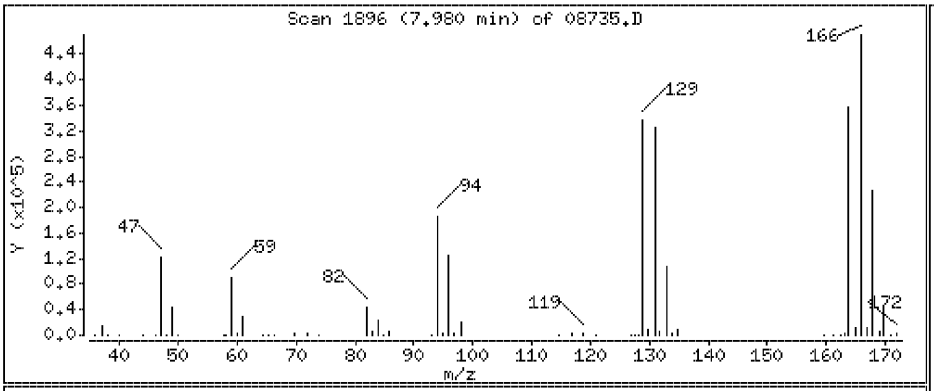
Operator: NCK

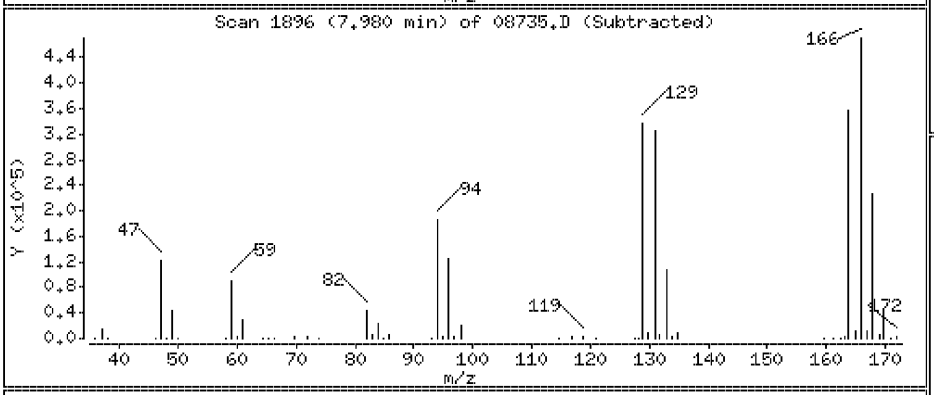
Column phase: J&W DB-5

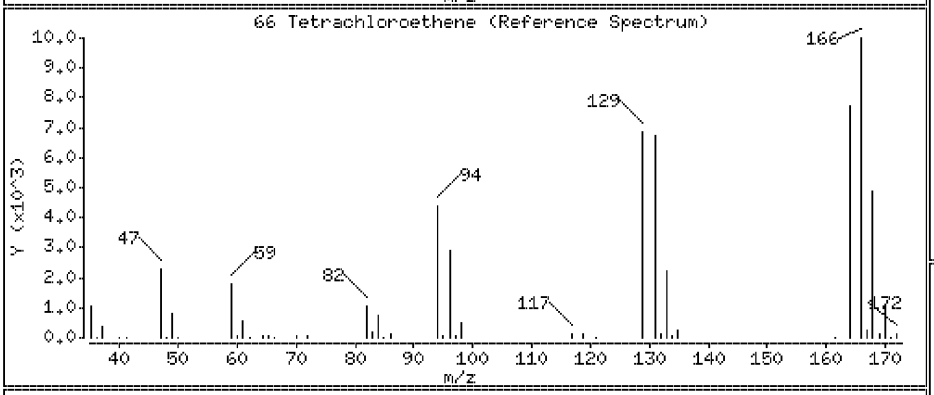
Column diameter: 0.32

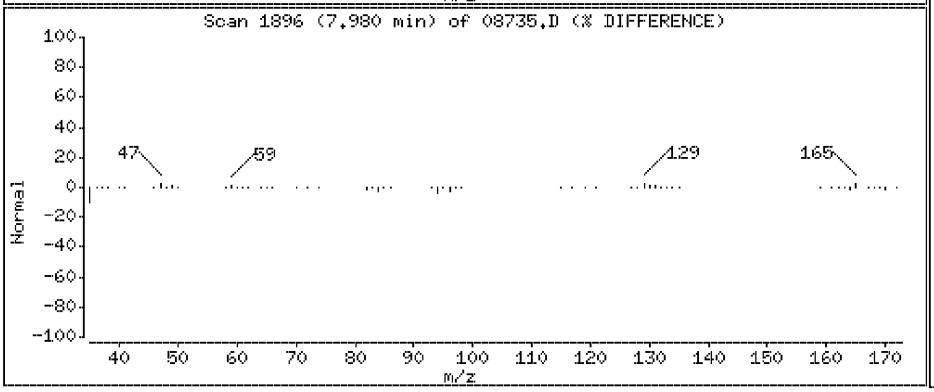
66 Tetrachloroethene

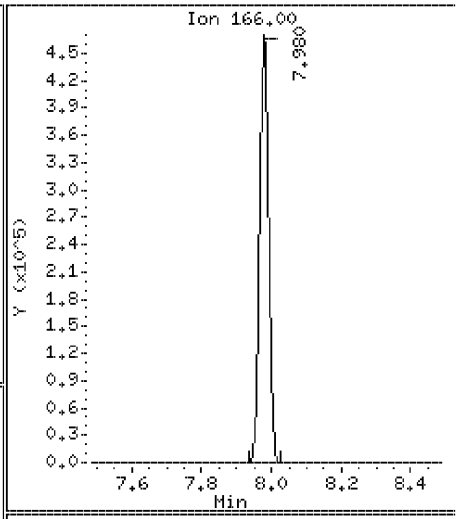
Concentration: 69.6 ppbv

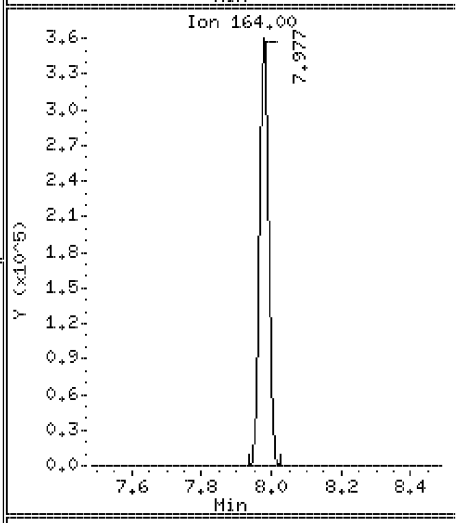


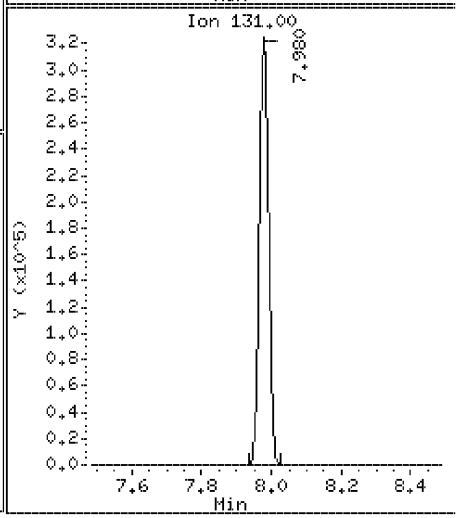












Data File: \\192.168.10.12\chem\10airB.i\032817.b/08735.D
Injection Date: 29-MAR-2017 02:28
Instrument: 10airB.i
Lab Sample ID: 10381335025
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_5_20170307DUP **Lab ID: 10381335026** Collected: 03/07/17 12:01 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**32.4**	ug/m3	4.1	1.4	1.68		03/28/17 20:11	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/28/17 20:11	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/28/17 20:11	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/28/17 20:11	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/28/17 20:11	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/28/17 20:11	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/28/17 20:11	106-99-0	
2-Butanone (MEK)	**3.1J**	ug/m3	5.0	0.38	1.68		03/28/17 20:11	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/28/17 20:11	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/28/17 20:11	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/28/17 20:11	108-90-7	
Chlorodifluoromethane	**1.8**	ug/m3	1.2	0.46	1.68		03/28/17 20:11	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/28/17 20:11	75-00-3	
Chloroform	**1.3**	ug/m3	0.83	0.32	1.68		03/28/17 20:11	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/28/17 20:11	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/28/17 20:11	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/28/17 20:11	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/28/17 20:11	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/28/17 20:11	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/28/17 20:11	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/28/17 20:11	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/28/17 20:11	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/28/17 20:11	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.7	0.81	1.68		03/28/17 20:11	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/28/17 20:11	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/28/17 20:11	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/28/17 20:11	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 20:11	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/28/17 20:11	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/28/17 20:11	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/28/17 20:11	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	3.9	0.44	1.68		03/28/17 20:11	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/28/17 20:11	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/28/17 20:11	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/28/17 20:11	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/28/17 20:11	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/28/17 20:11	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/28/17 20:11	87-68-3	
n-Hexane	**1.5**	ug/m3	1.2	0.60	1.68		03/28/17 20:11	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/28/17 20:11	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/28/17 20:11	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/28/17 20:11	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 20:11	108-87-2	
Methylene Chloride	**114**	ug/m3	5.9	0.91	1.68		03/28/17 20:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/28/17 20:11	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/28/17 20:11	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D
Report Date: 03-Apr-2017 15:05

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08722.D
Lab Smp Id: 10381335026
Inj Date : 28-MAR-2017 20:11
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 22
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.680	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.034	2.996	(0.542)	3575	0.30312	0.509(Q)	
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.066	3.028	(0.548)	40101	0.31602	0.531	
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.539	(0.634)	31881	2.08574	3.50	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.661	3.658	(0.654)	13556	0.15261	0.256	
17	Acrolein	56	3.677	3.674	(0.657)	10862	0.77758	1.31	
18	Acetone	43	3.716	3.713	(0.664)	481436	7.99363	13.4	
19	Isopropyl Alcohol	45	3.771	3.764	(0.673)	34364	0.50691	0.852	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.938	3.938	(0.703)	5650	0.07921	0.133	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D
Report Date: 03-Apr-2017 15:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.996	3.999	(0.714)	884545	19.1583	32.2	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.430	4.385	(0.791)	45030	0.44450	0.747	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.478	(0.800)	833941	9.64350	9.64	
	33 Methyl Ethyl Ketone	72	4.558	4.549	(0.814)	11469	0.62136	1.04(Q)	
	34 n-Hexane	57	4.578	4.574	(0.817)	16926	0.24820	0.417(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.819	4.838	(0.860)	11965	0.15774	0.265	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	2305260	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.986	(1.067)	17283	0.24767	0.416	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.073	(1.262)	1928340	9.92227	9.92	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.558	7.581	(0.875)	22368	0.20033	0.337(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.976	7.986	(0.924)	112582	1.20966	2.03	
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1421077	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.500	9.507	(1.100)	12766	0.10918	0.183	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D
Report Date: 03-Apr-2017 15:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	668235	9.90549	9.91	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.175	14.169	(1.642)	2102	0.36185	0.608(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D
Report Date: 03-Apr-2017 15:05

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08722.D
Lab Smp Id: 10381335026
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

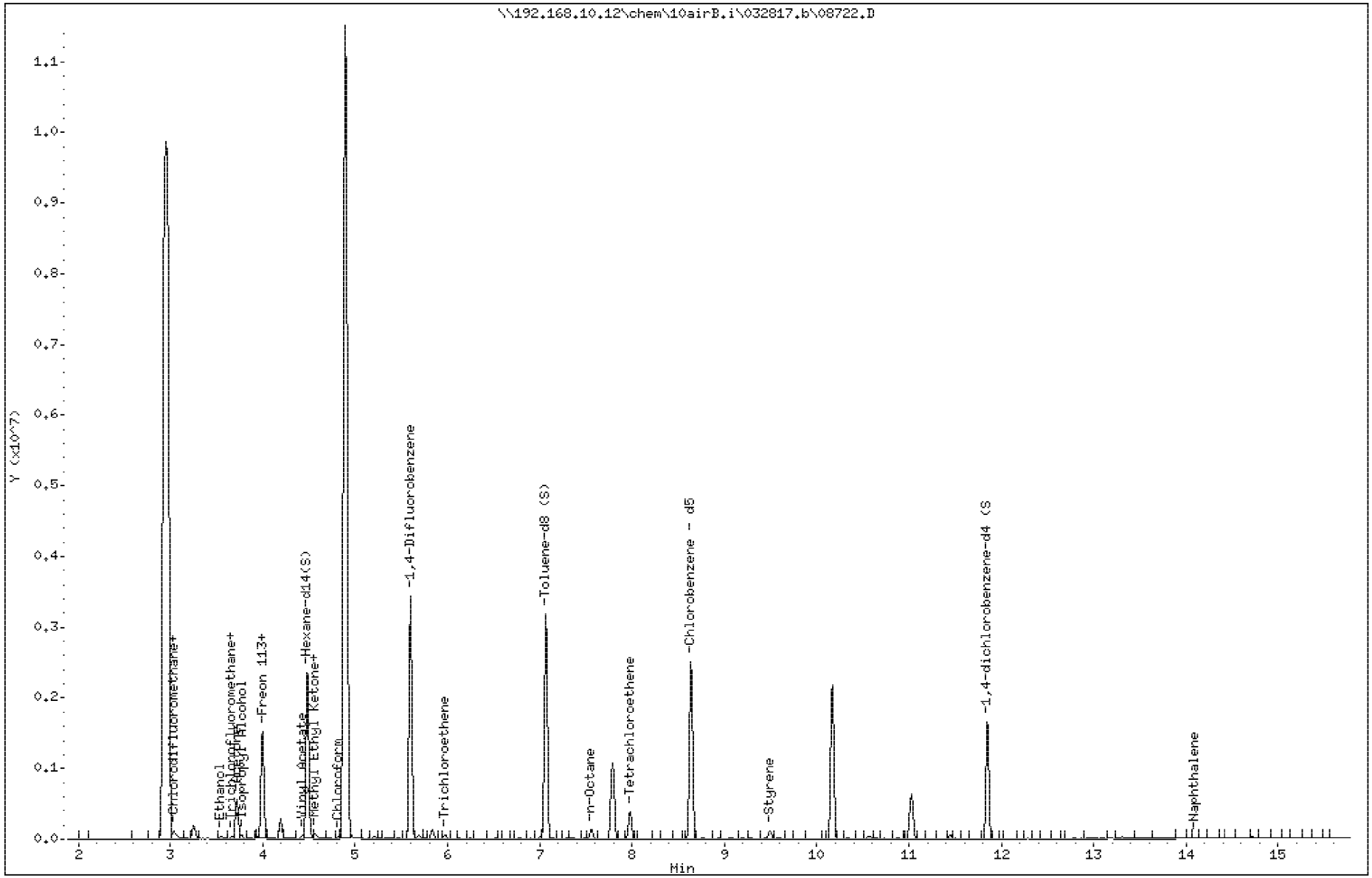
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2305260	-18.59
67 Chlorobenzene - d	1804482	1082689	2526275	1421077	-21.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D
Date : 28-MAR-2017 20:11
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

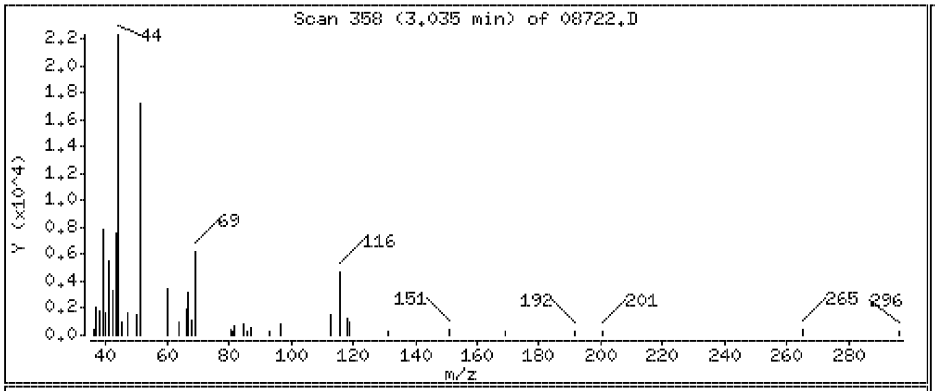
Operator: NCK

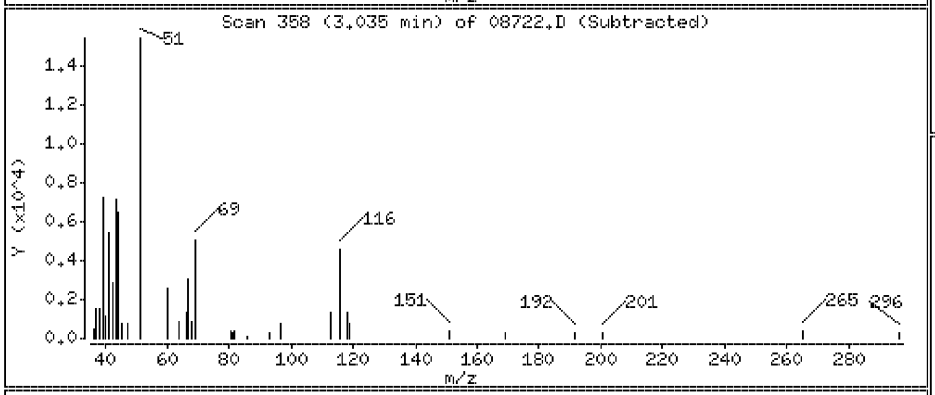
Column phase: J&W DB-5

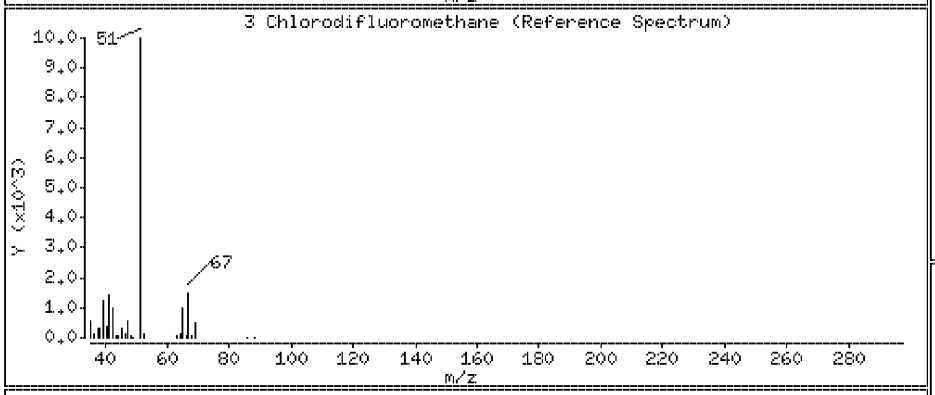
Column diameter: 0.32

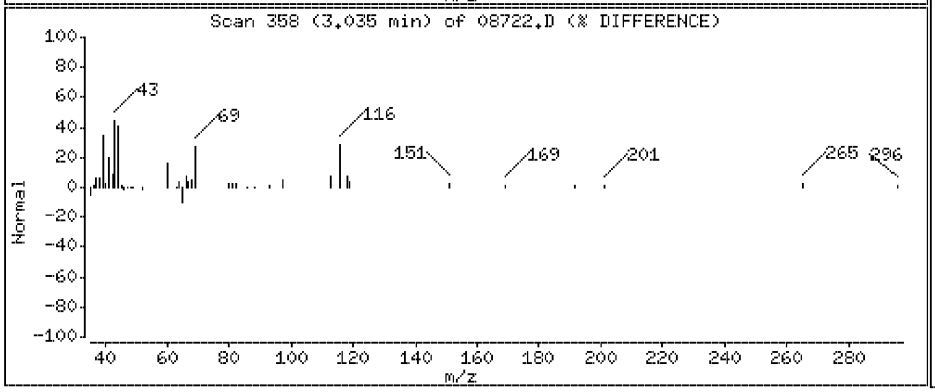
3 Chlorodifluoromethane

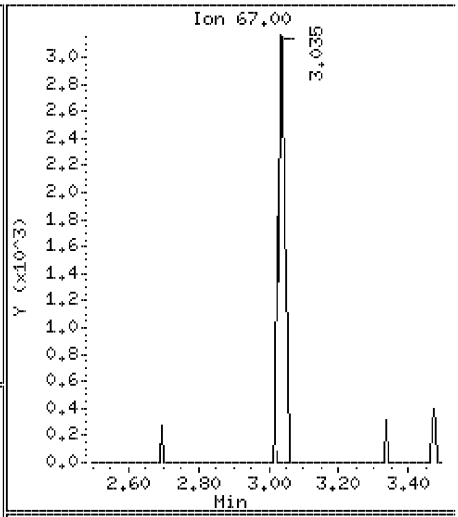
Concentration: 0.509 ppbv

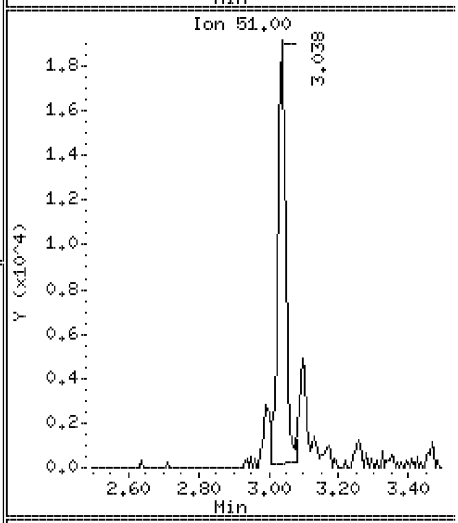


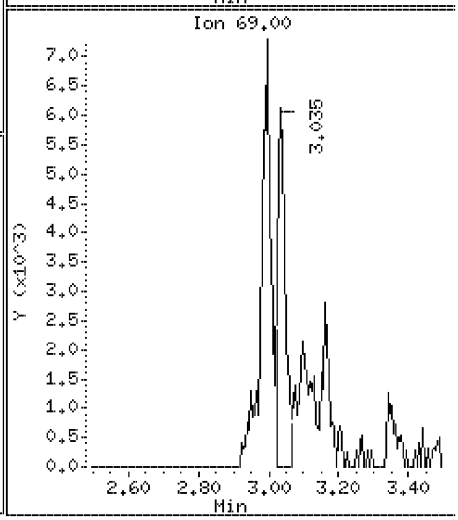












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

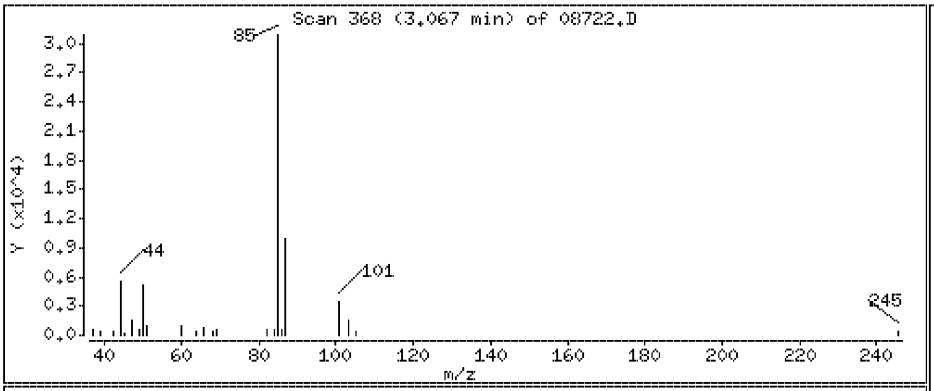
Operator: NCK

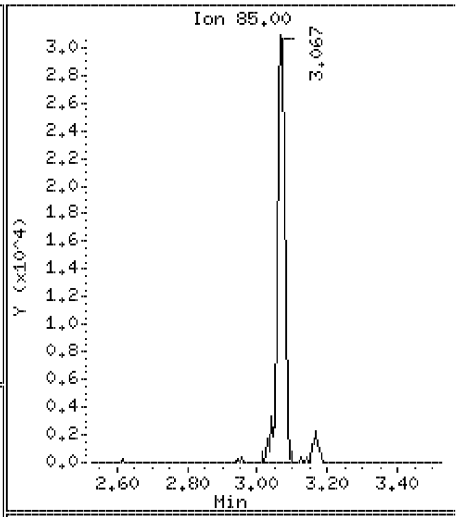
Column phase: J&W DB-5

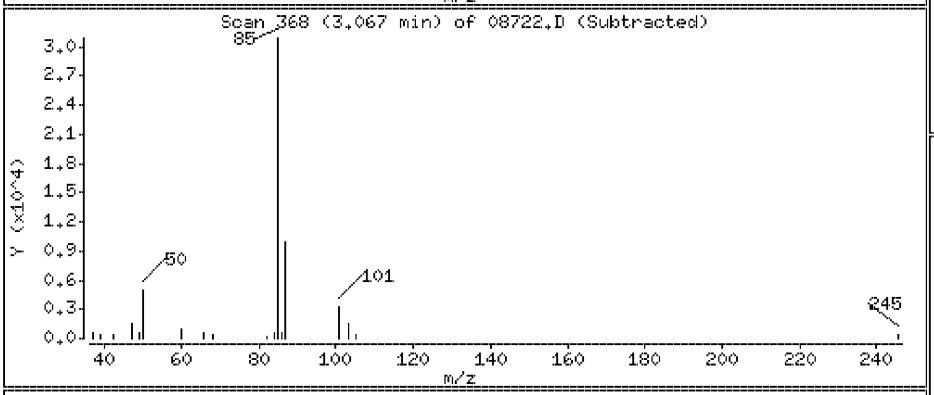
Column diameter: 0.32

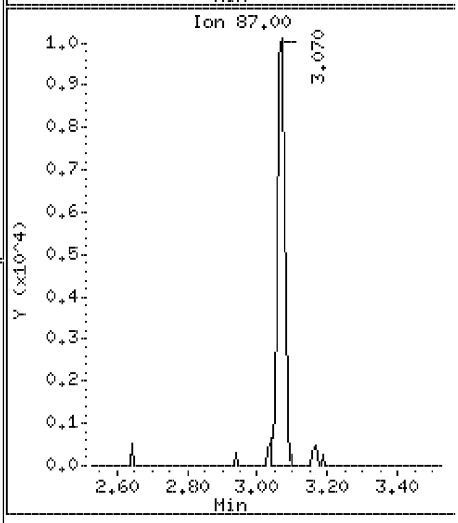
5 Dichlorodifluoromethane

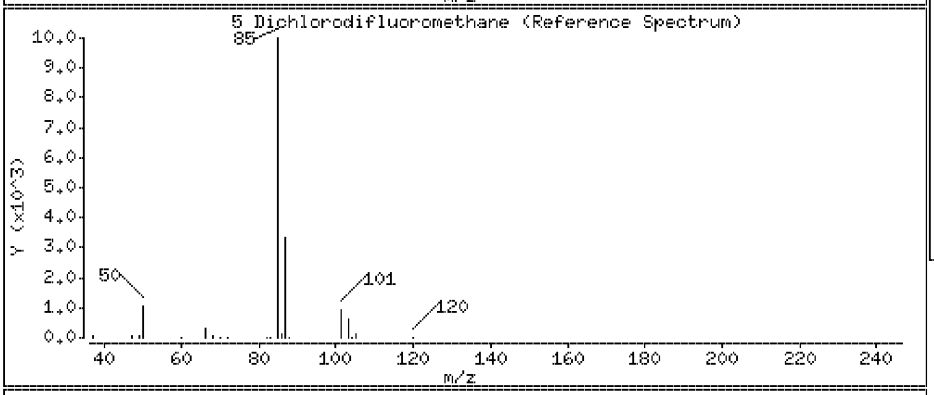
Concentration: 0.531 ppbv

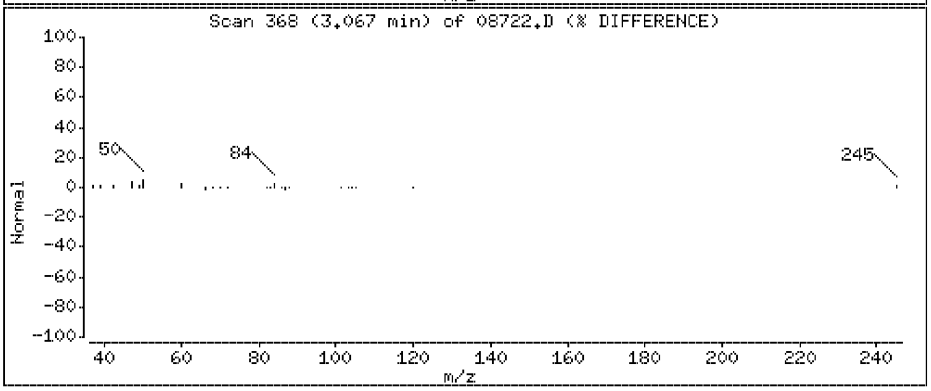












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

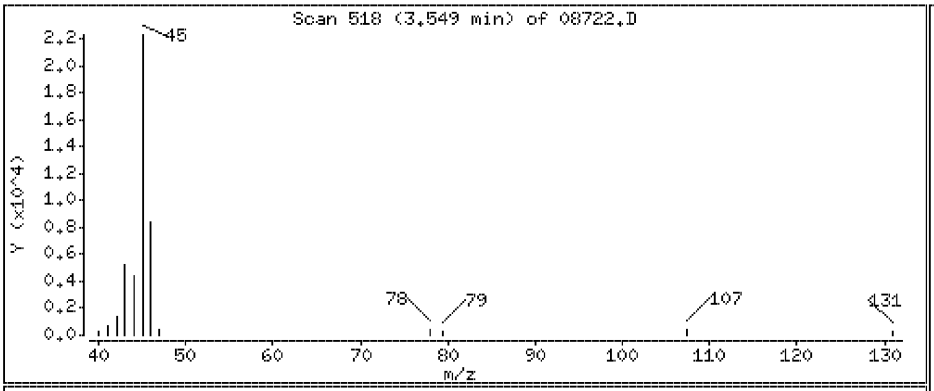
Operator: NCK

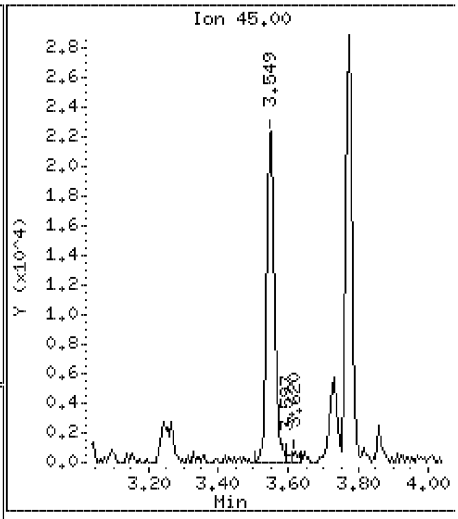
Column phase: J&W DB-5

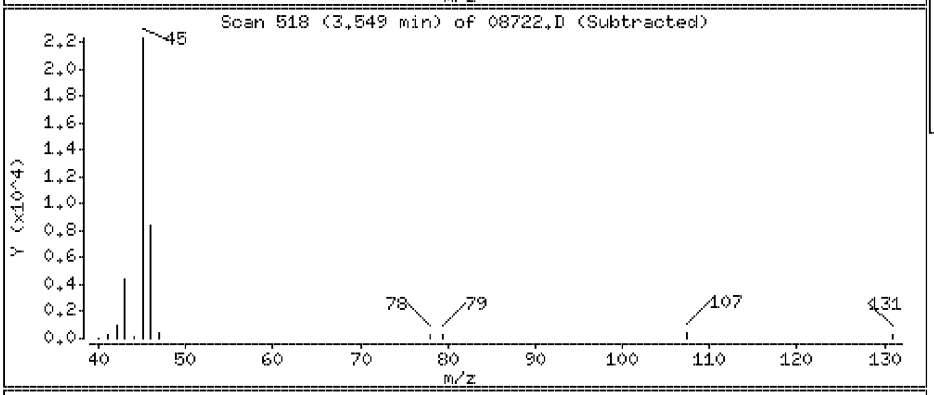
Column diameter: 0.32

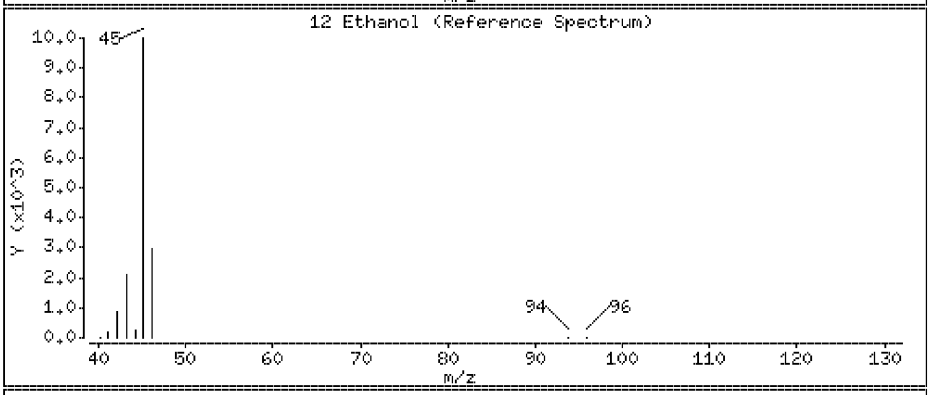
12 Ethanol

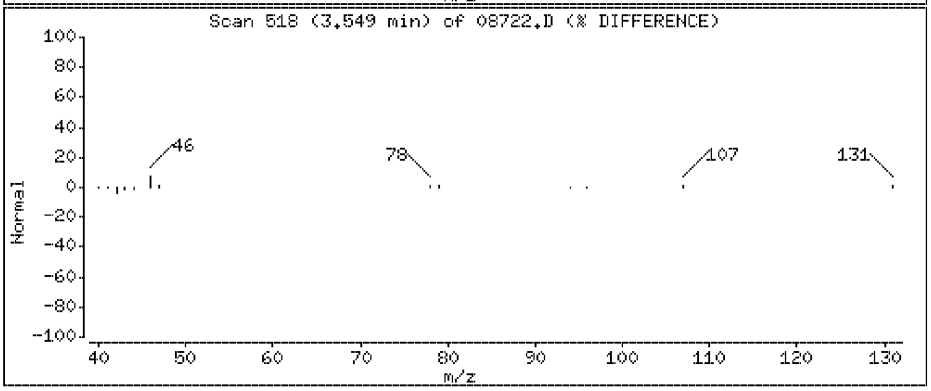
Concentration: 3.50 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

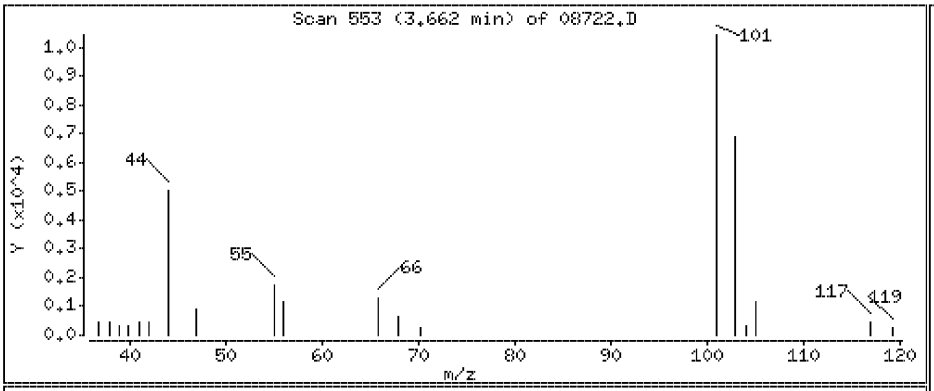
Operator: NCK

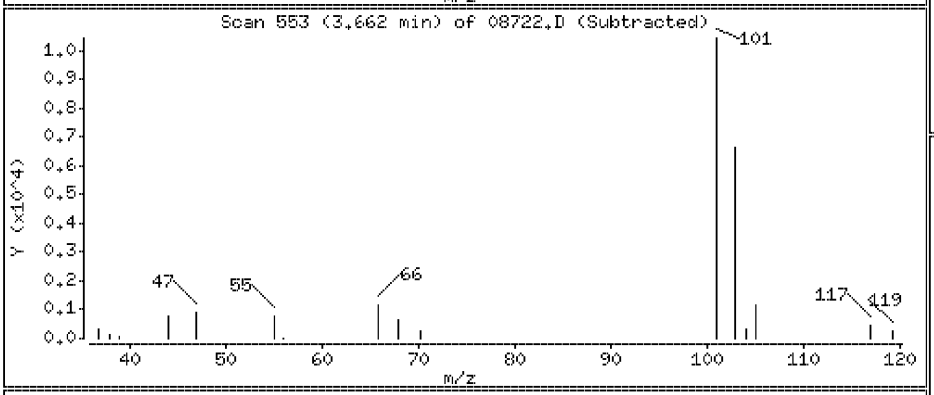
Column phase: J&W DB-5

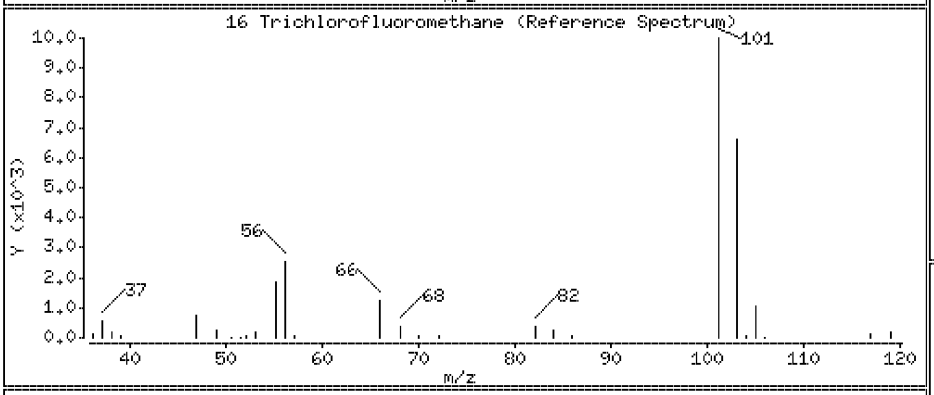
Column diameter: 0.32

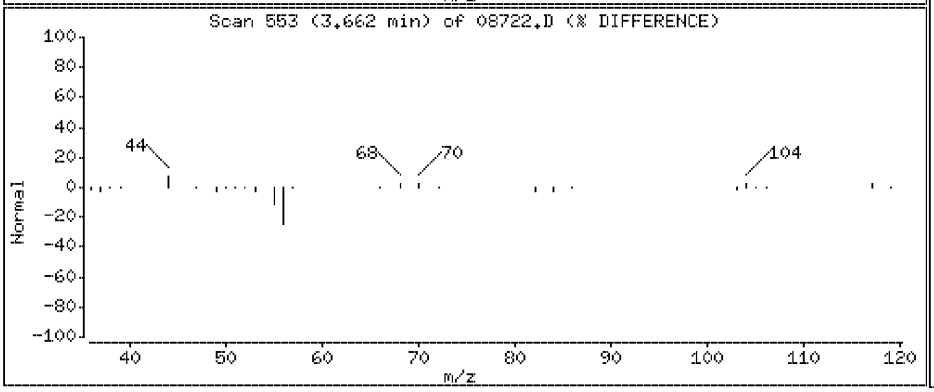
16 Trichlorofluoromethane

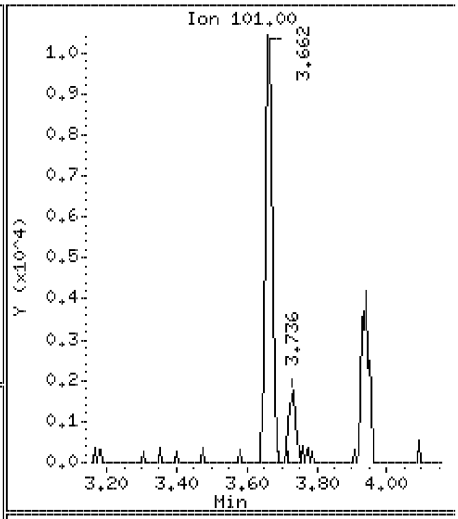
Concentration: 0.256 ppbv

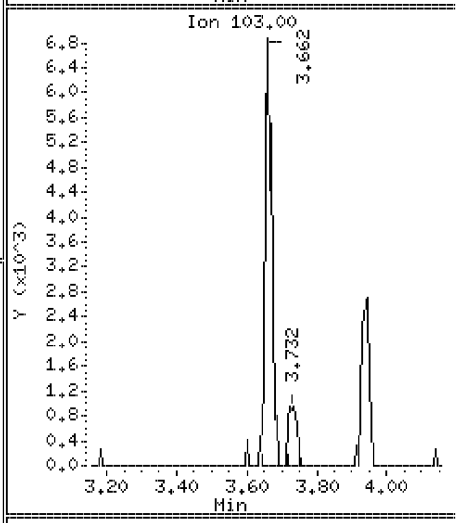


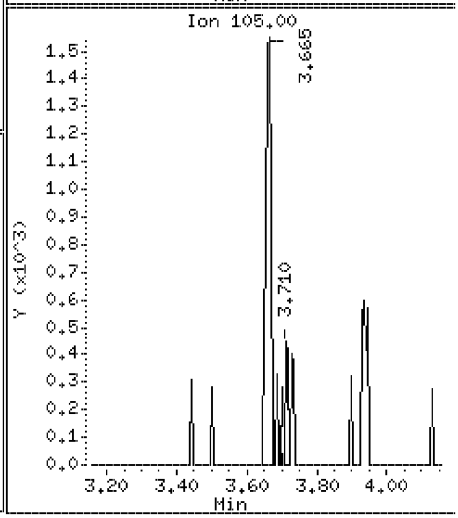












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

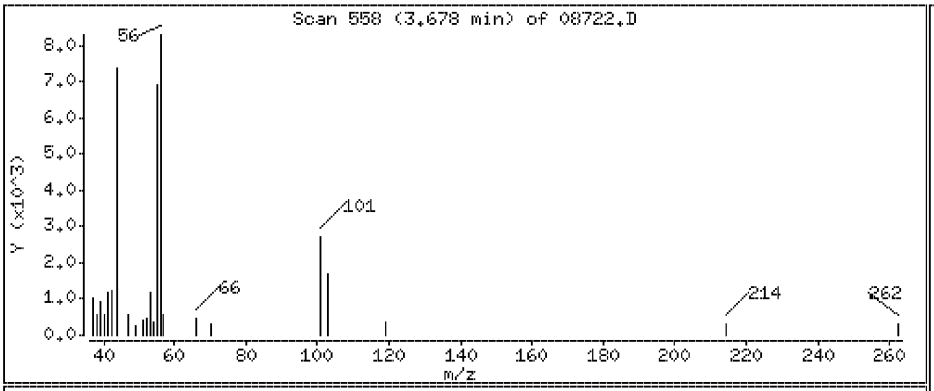
Operator: NCK

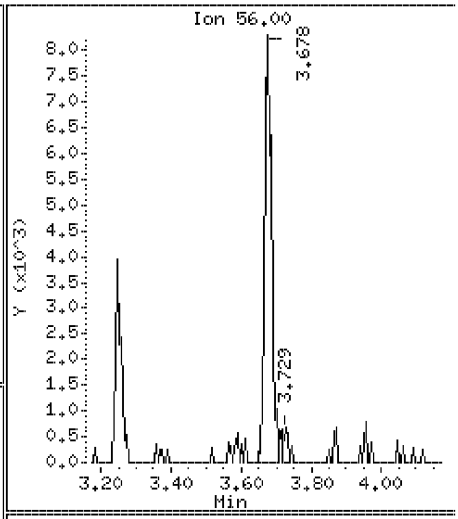
Column phase: J&W DB-5

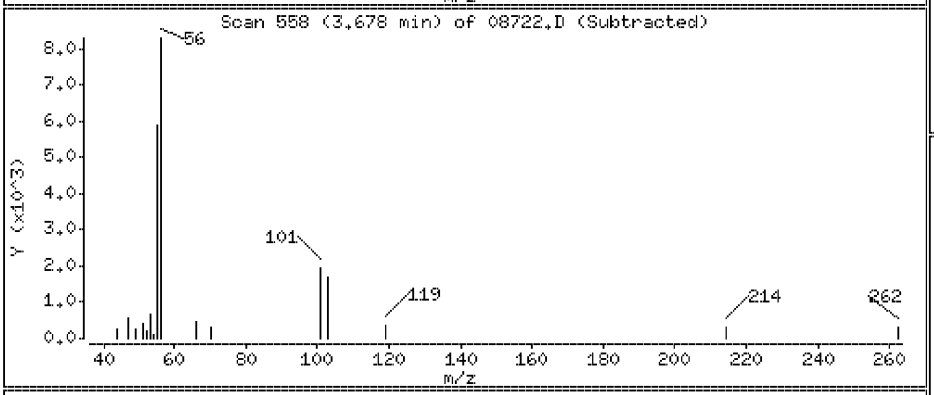
Column diameter: 0.32

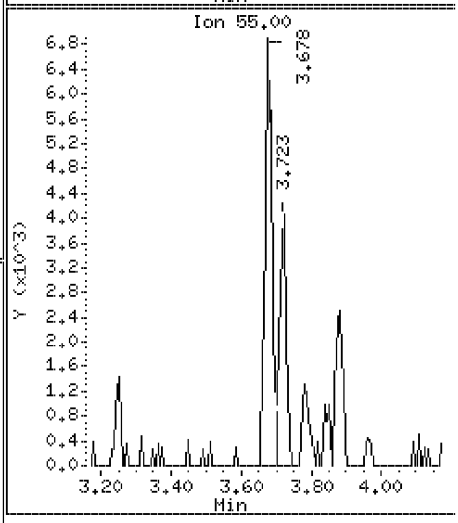
17 Acrolein

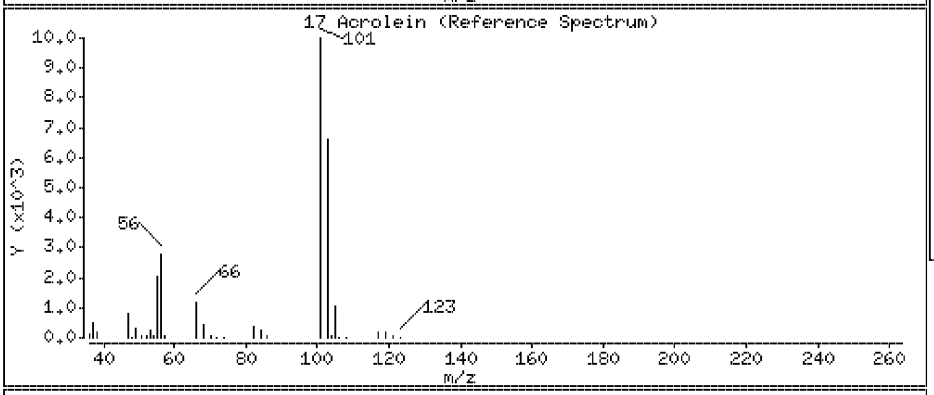
Concentration: 1.31 ppbv

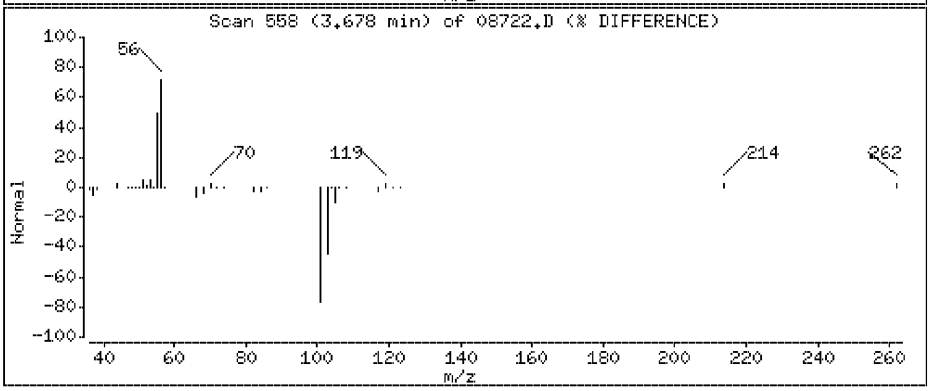












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

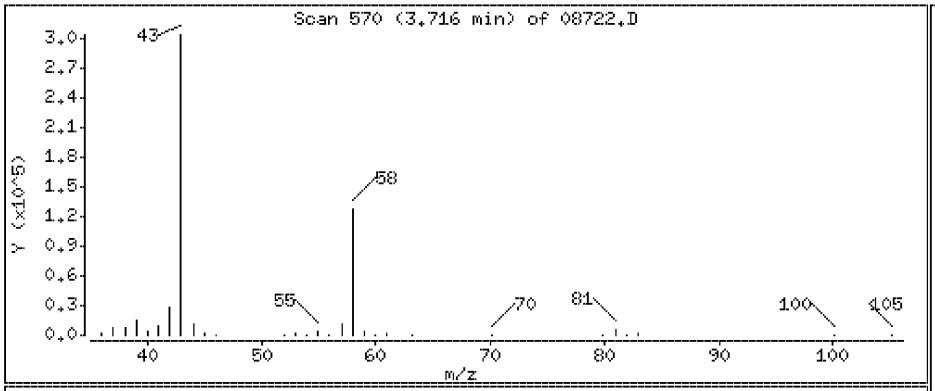
Operator: NCK

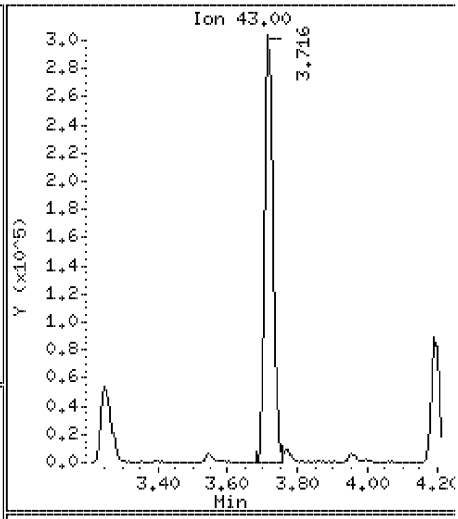
Column phase: J&W DB-5

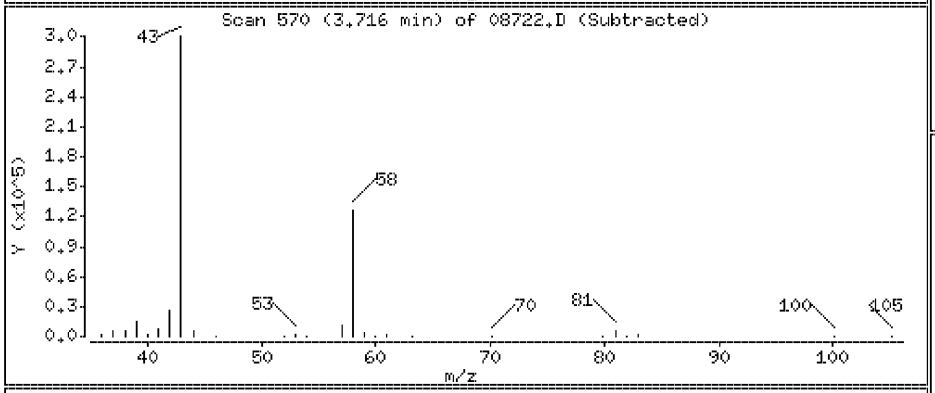
Column diameter: 0.32

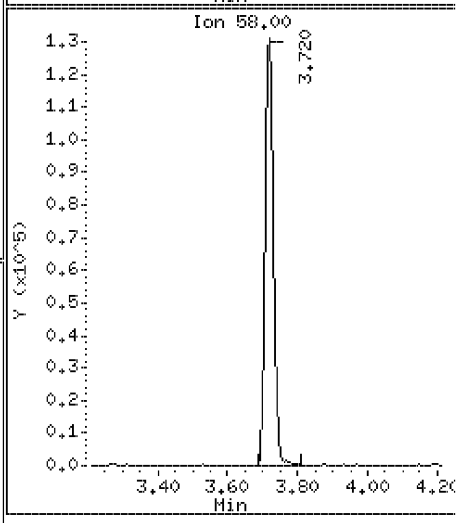
18 Acetone

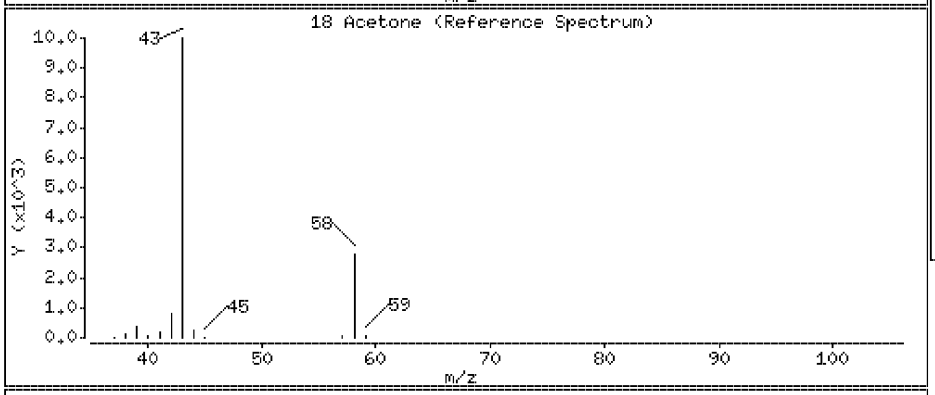
Concentration: 13.4 ppbv

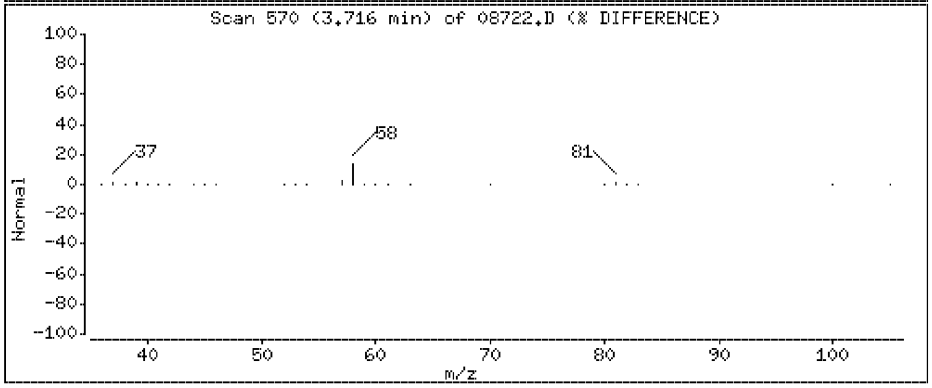












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

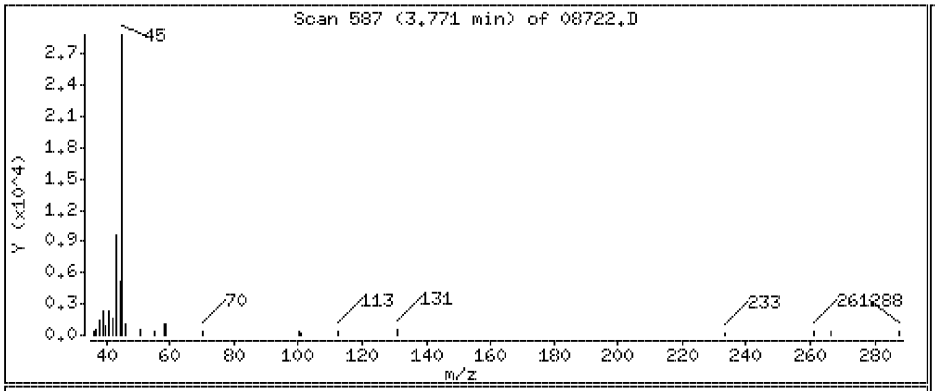
Operator: NCK

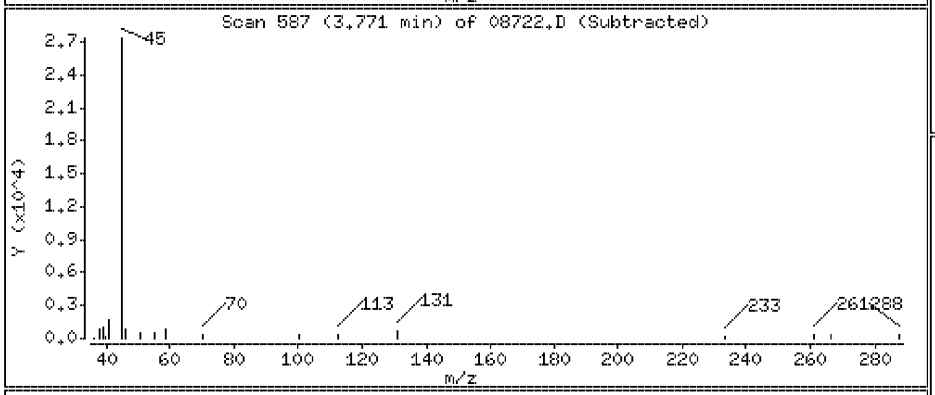
Column phase: J&W DB-5

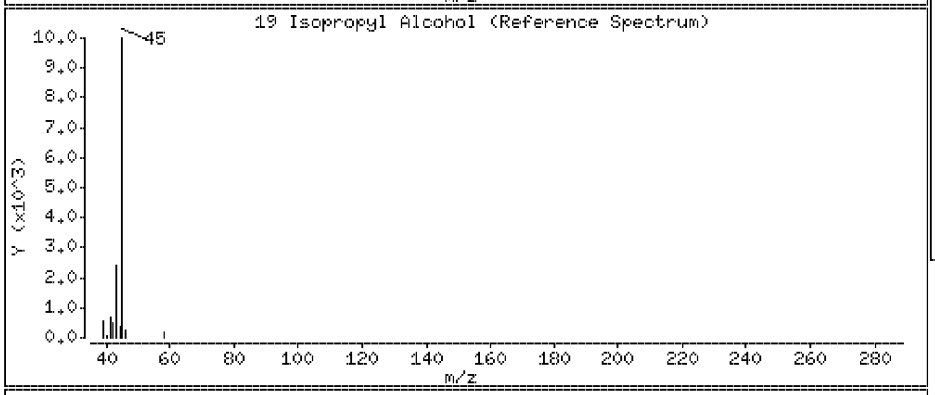
Column diameter: 0.32

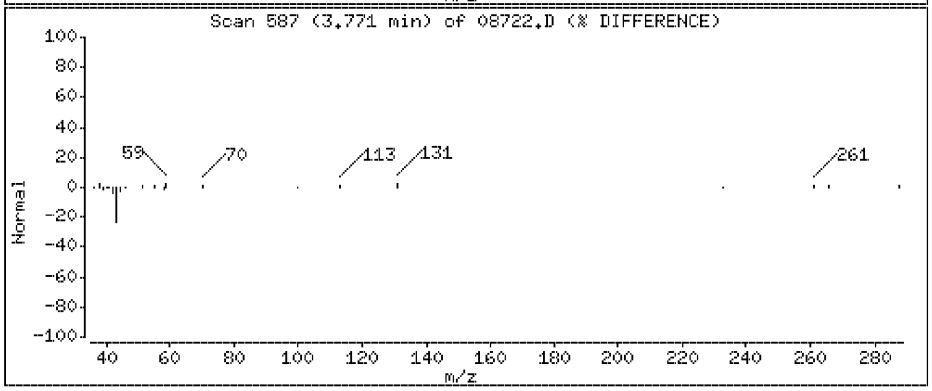
19 Isopropyl Alcohol

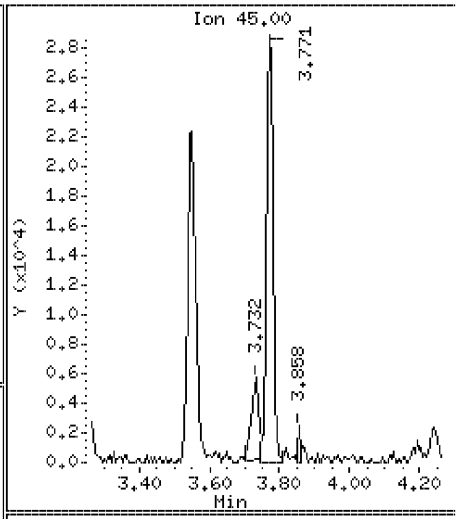
Concentration: 0.852 ppbv

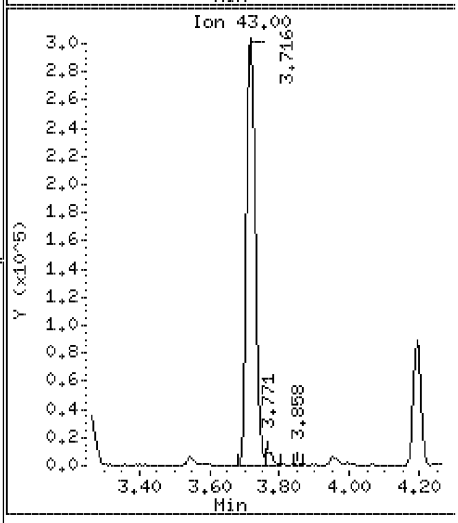












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

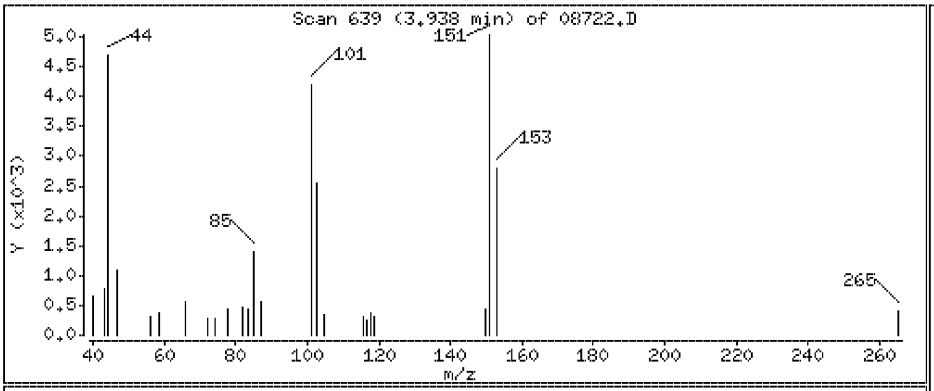
Operator: NCK

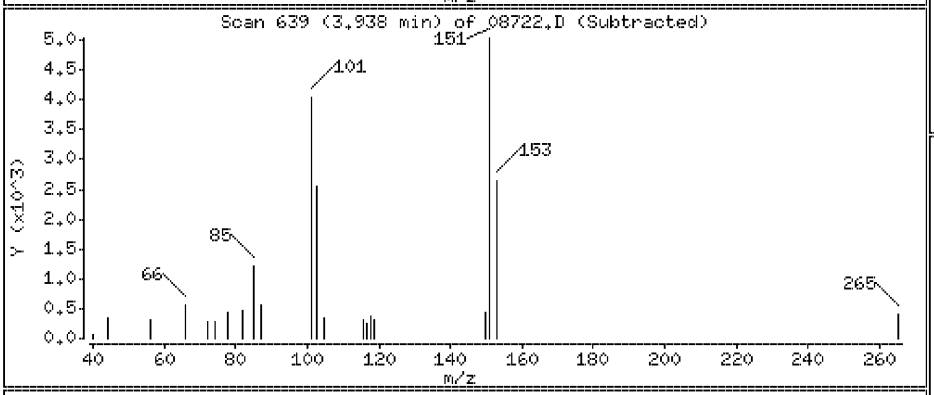
Column phase: J&W DB-5

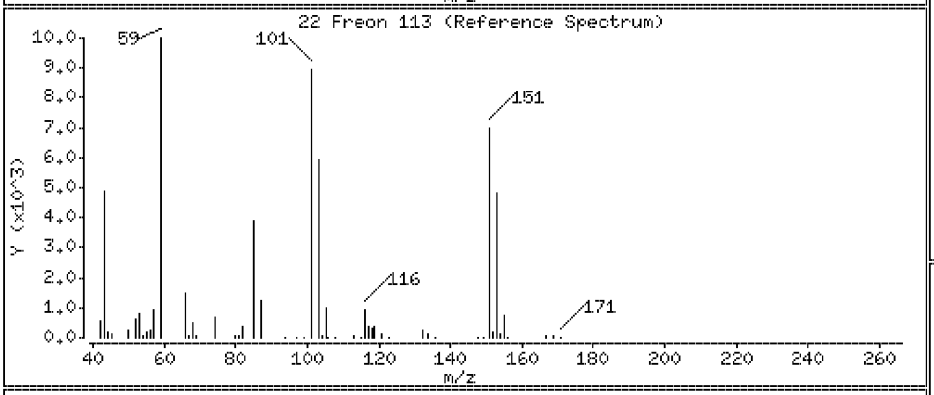
Column diameter: 0.32

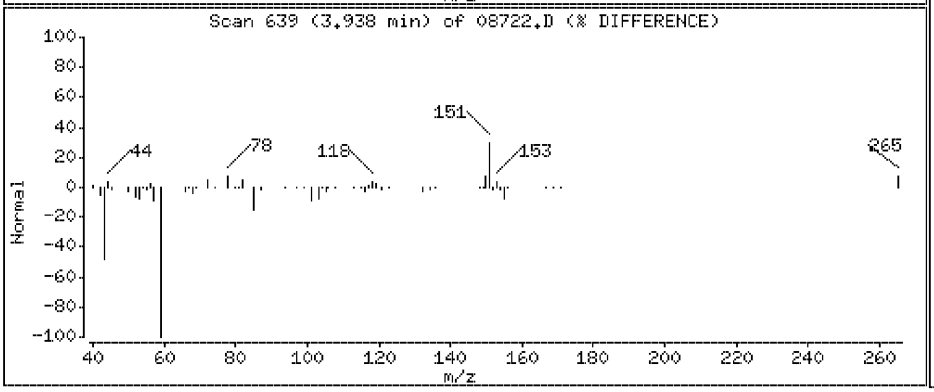
22 Freon 113

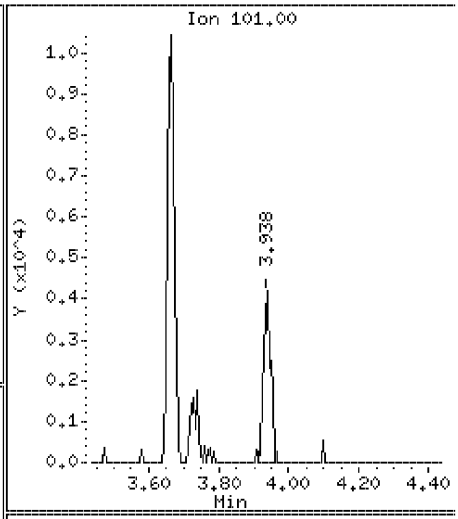
Concentration: 0.133 ppbv

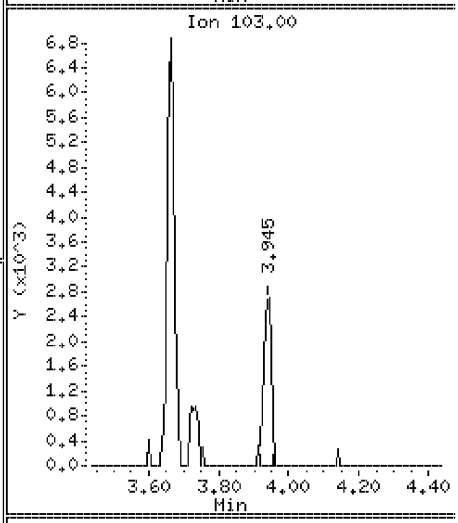


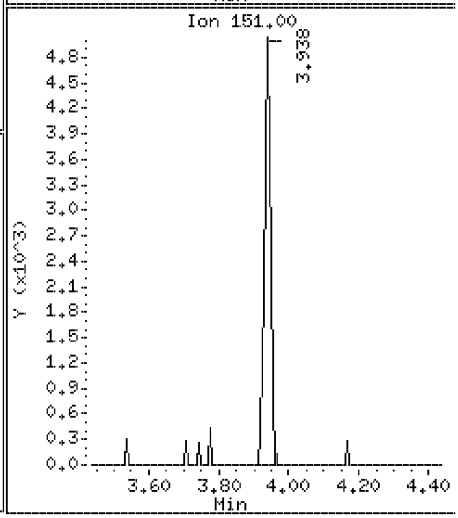












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

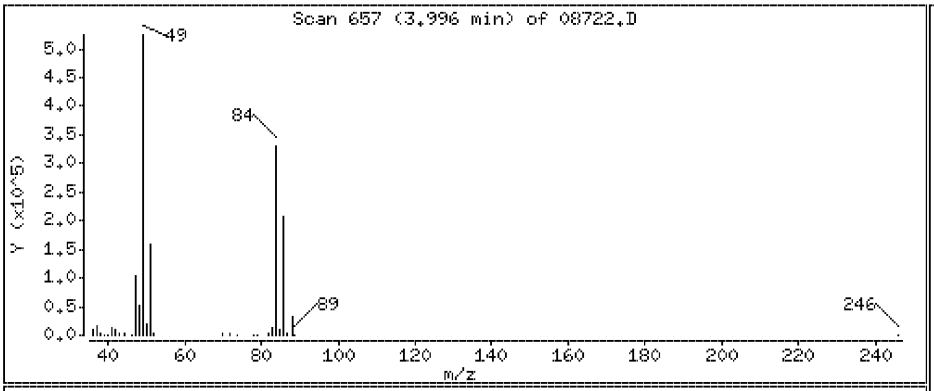
Operator: NCK

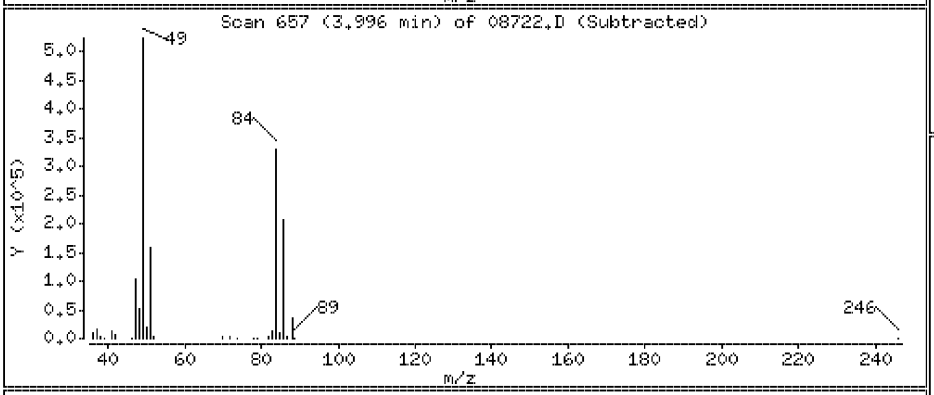
Column phase: J&W DB-5

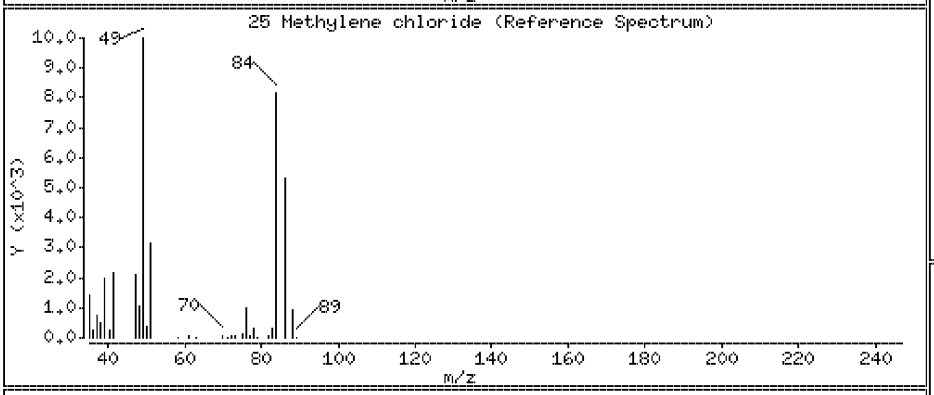
Column diameter: 0.32

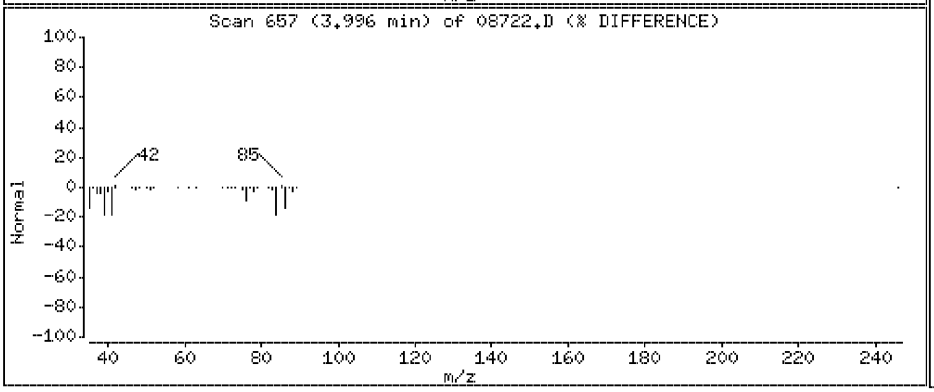
25 Methylene chloride

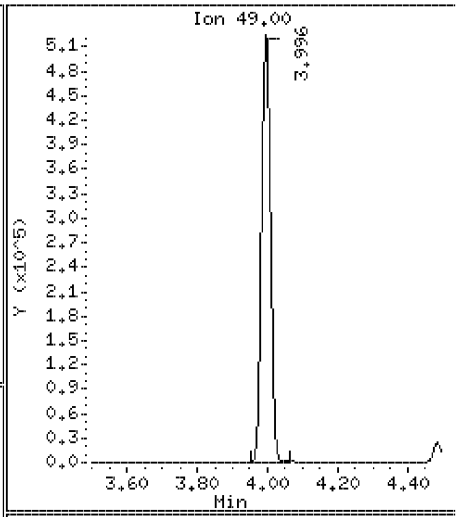
Concentration: 32.2 ppbv

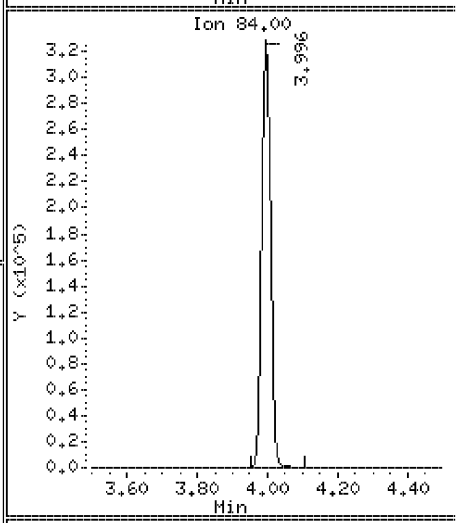


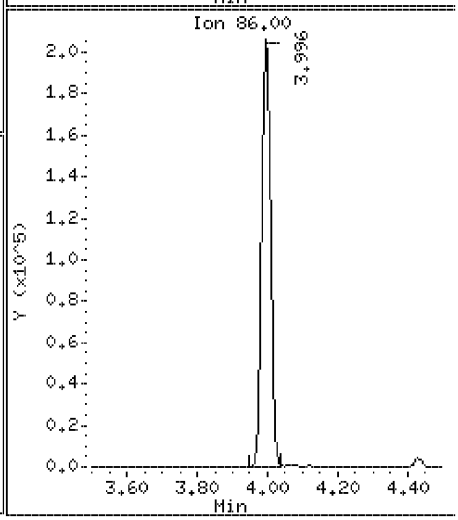












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

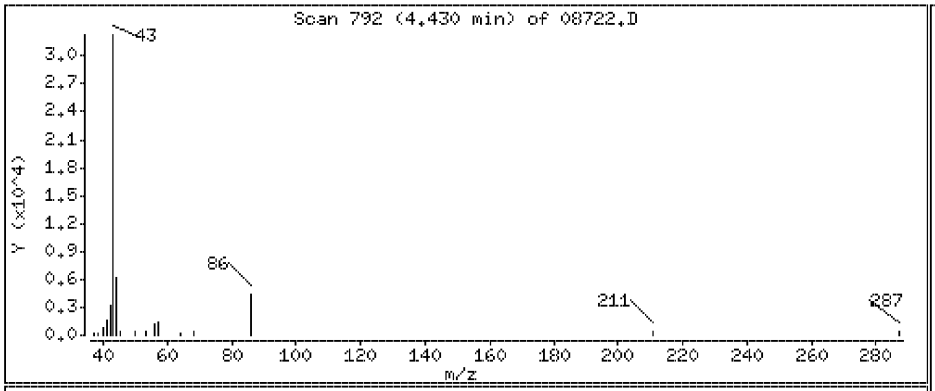
Operator: NCK

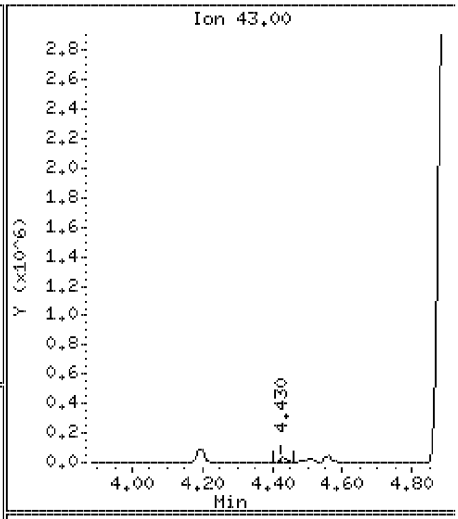
Column phase: J&W DB-5

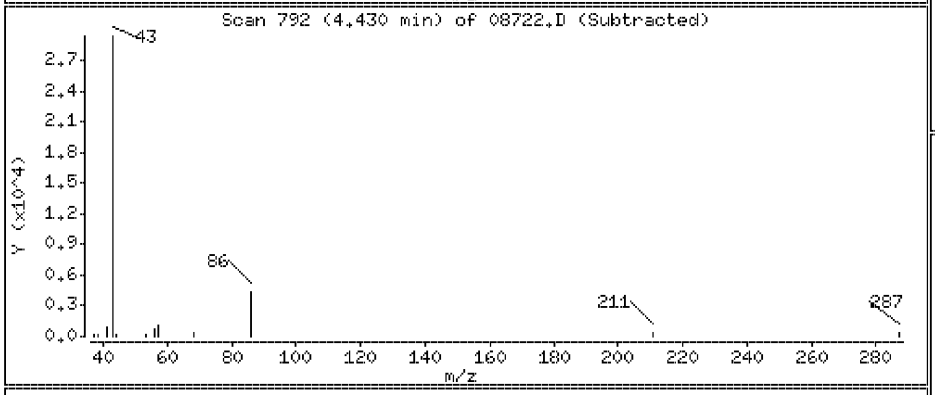
Column diameter: 0.32

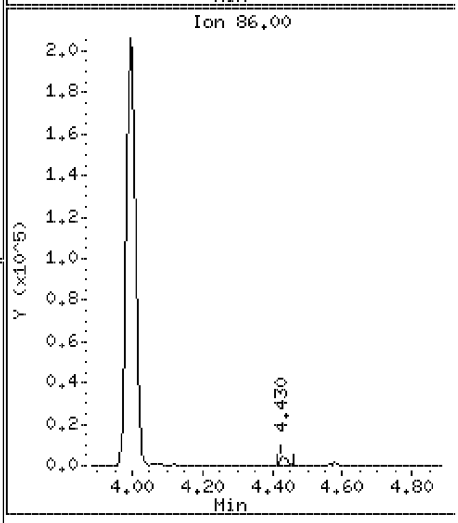
30 Vinyl Acetate

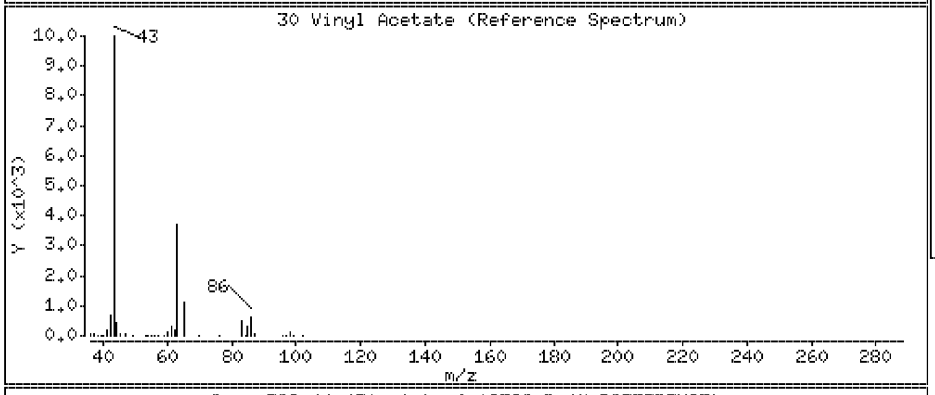
Concentration: 0.747 ppbv

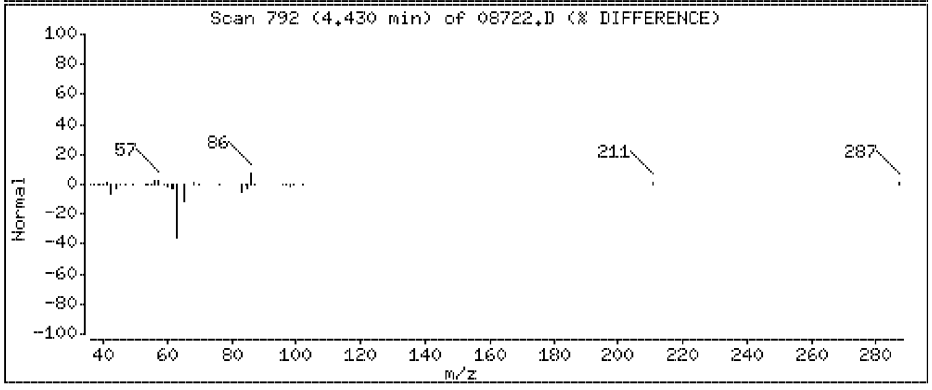












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

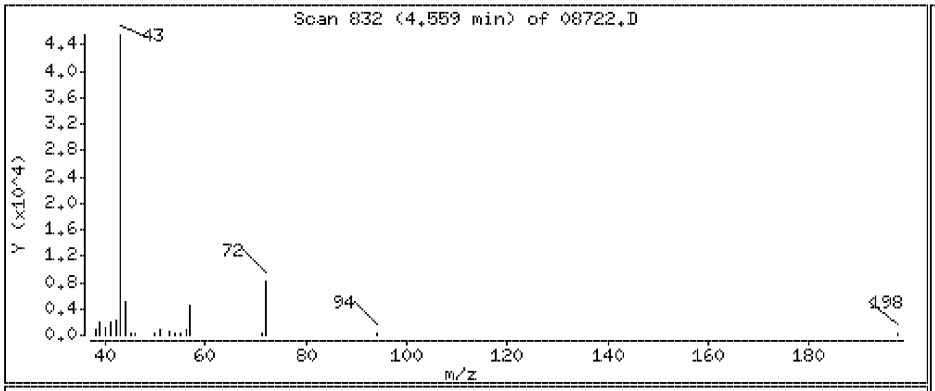
Operator: NCK

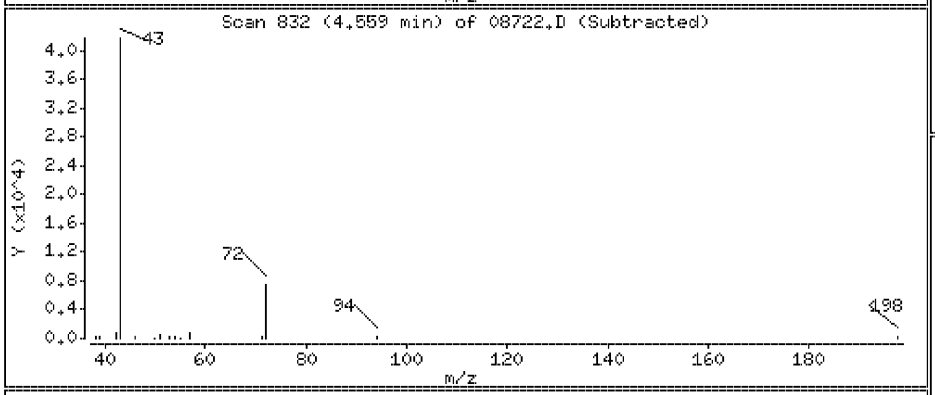
Column phase: J&W DB-5

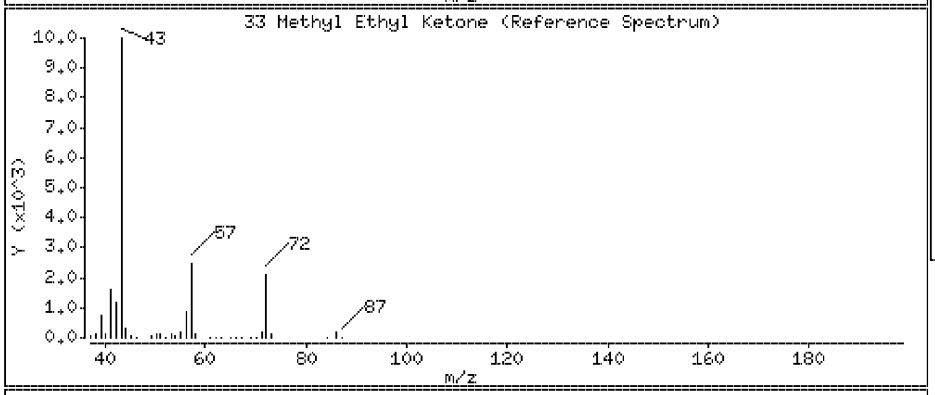
Column diameter: 0.32

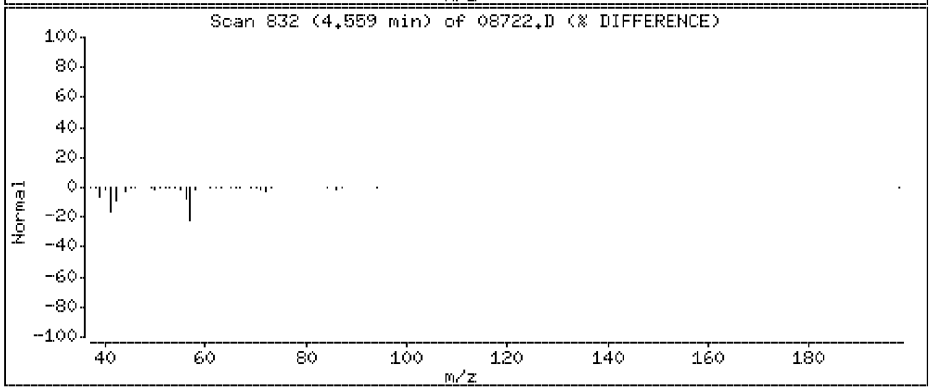
33 Methyl Ethyl Ketone

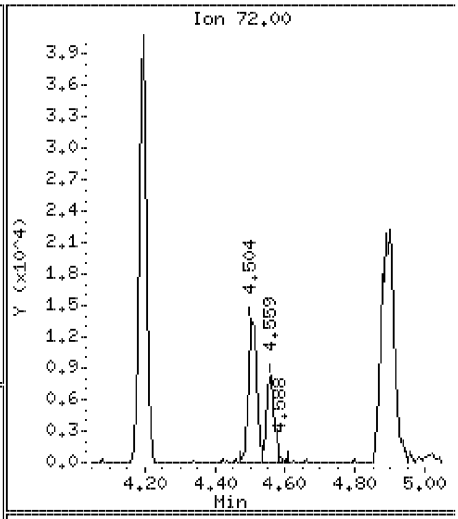
Concentration: 1.04 ppbv

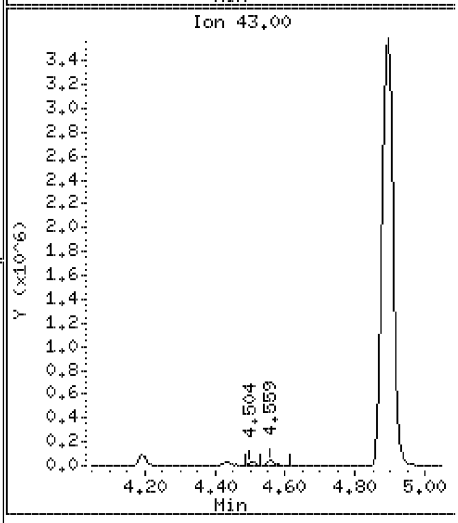












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

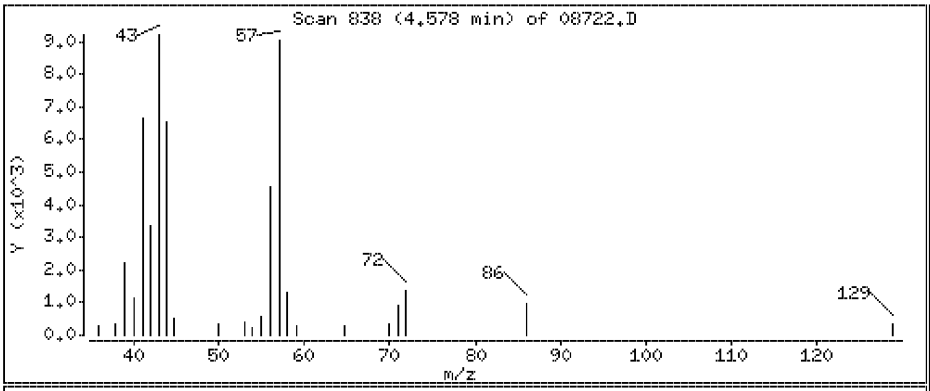
Operator: NCK

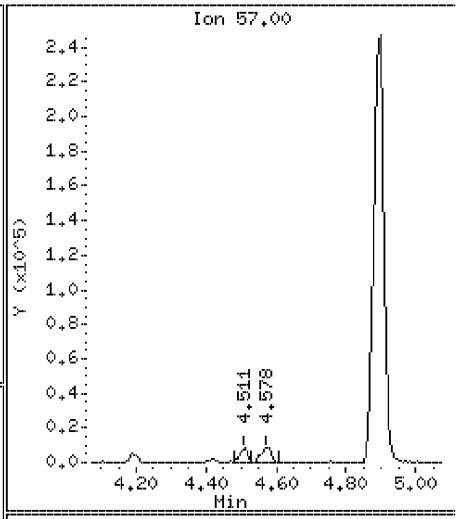
Column phase: J&W DB-5

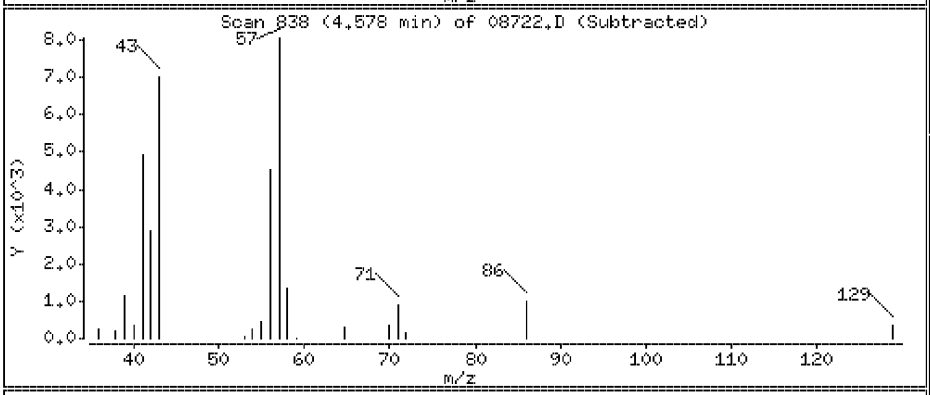
Column diameter: 0.32

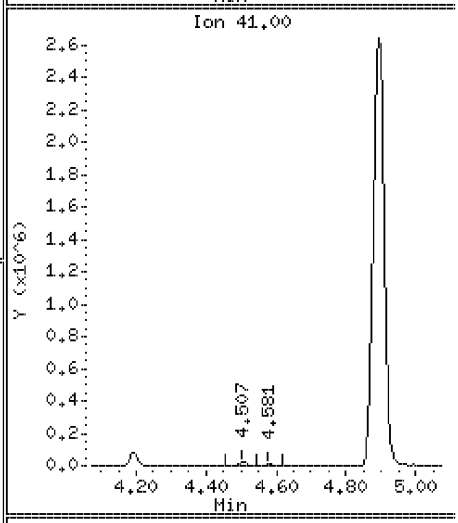
34 n-Hexane

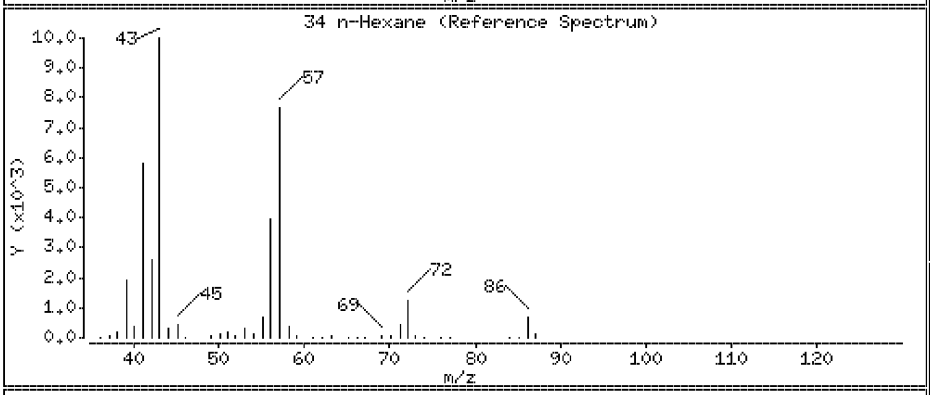
Concentration: 0.417 ppbv

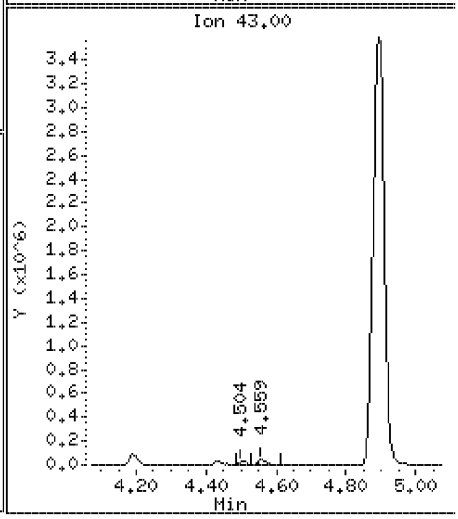


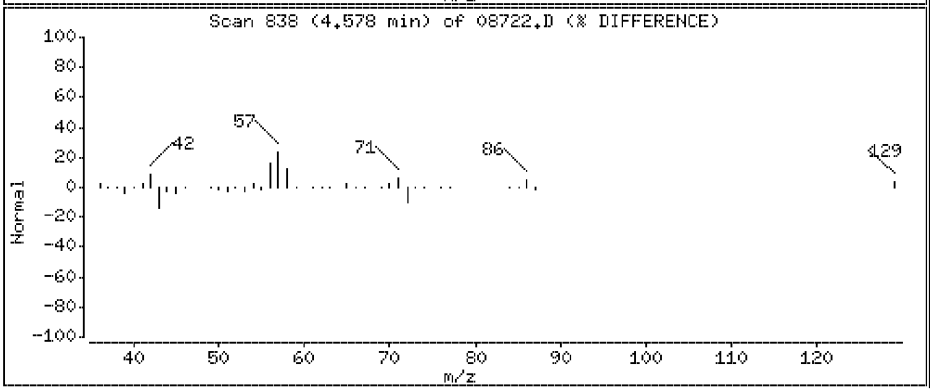












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

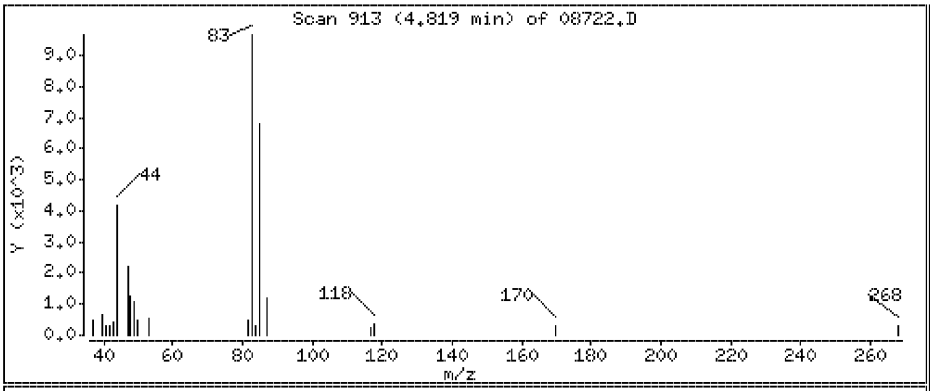
Operator: NCK

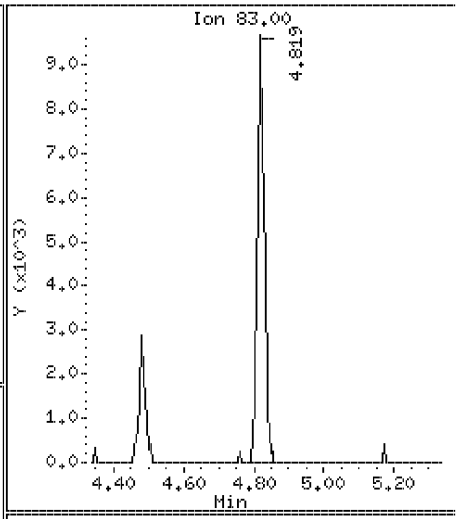
Column phase: J&W DB-5

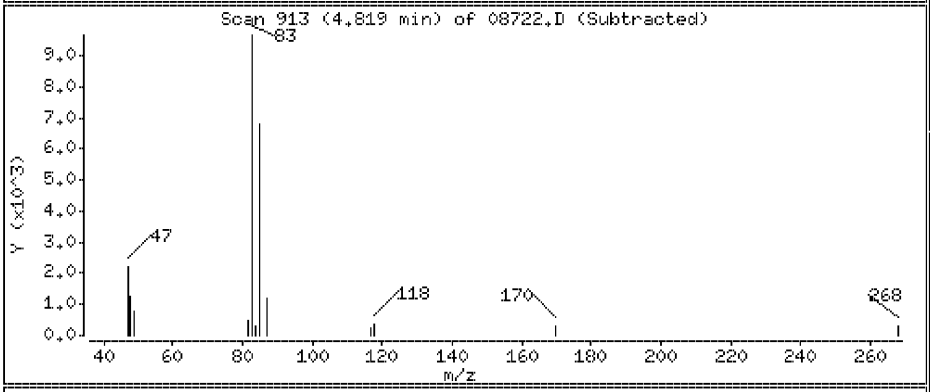
Column diameter: 0.32

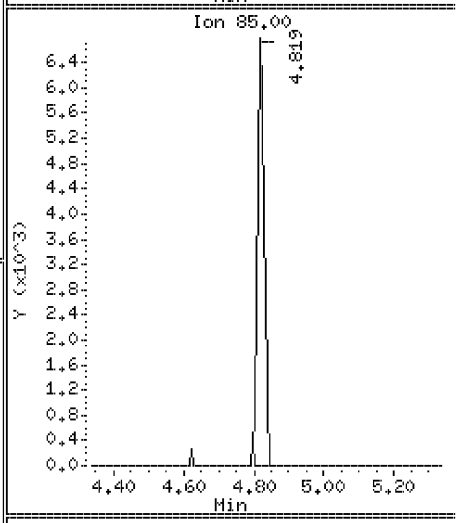
39 Chloroform

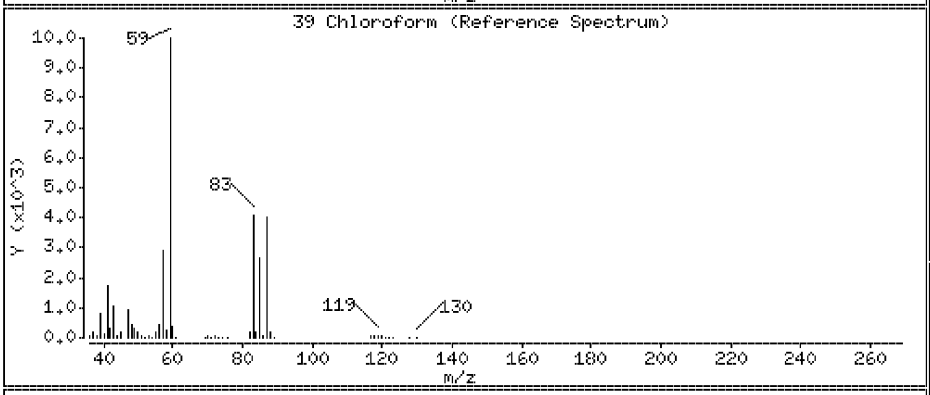
Concentration: 0.265 ppbv

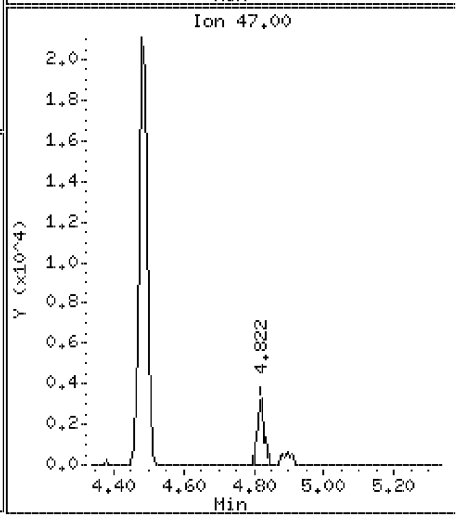


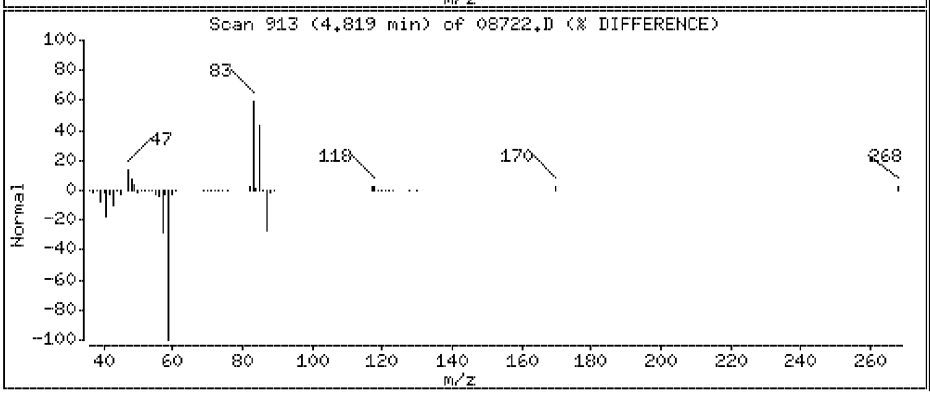












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

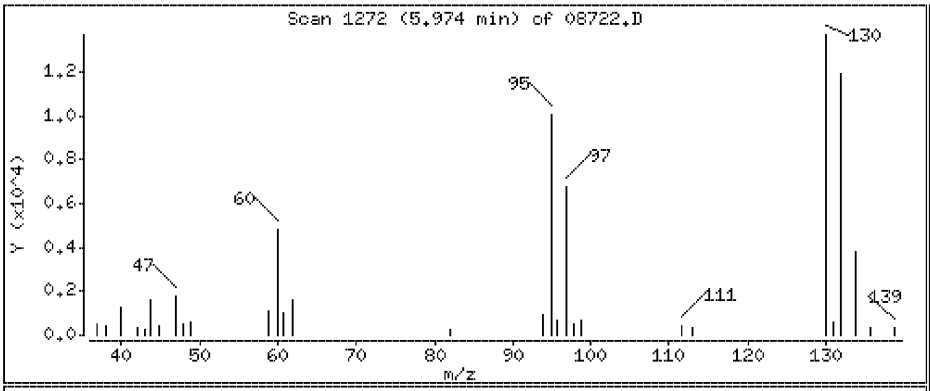
Operator: NCK

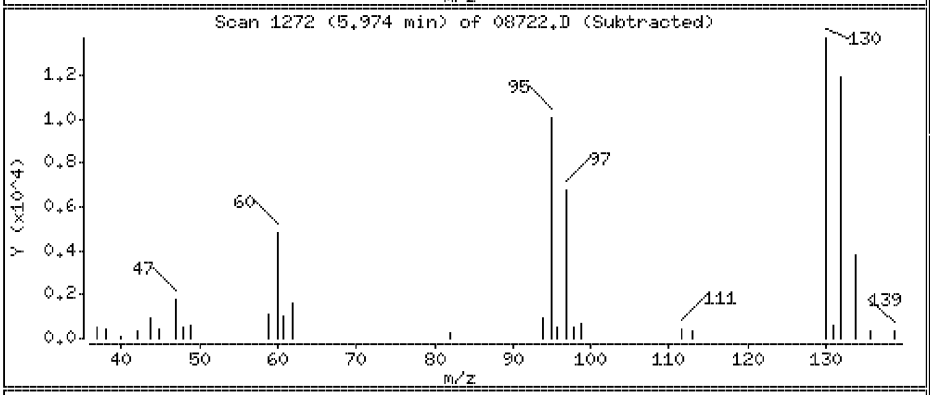
Column phase: J&W DB-5

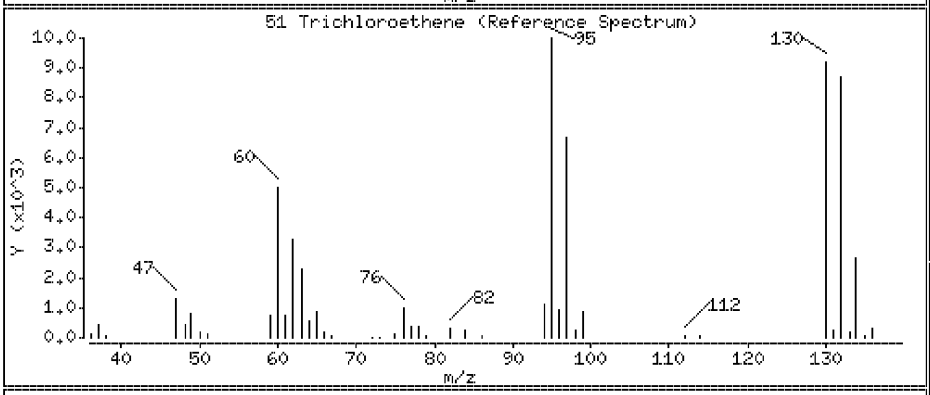
Column diameter: 0.32

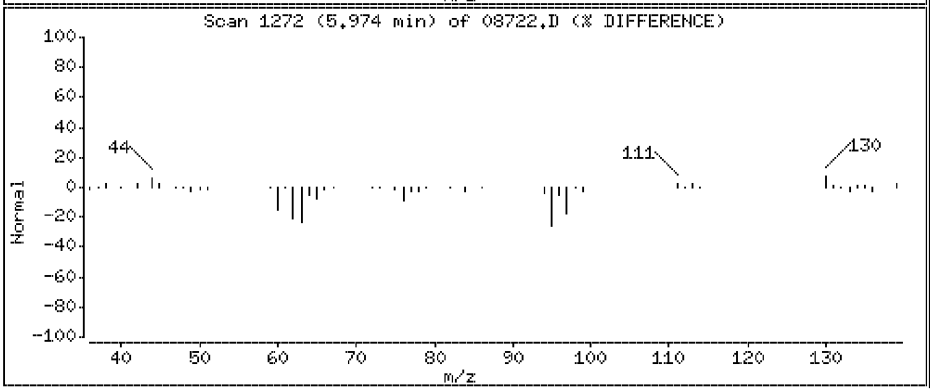
51 Trichloroethene

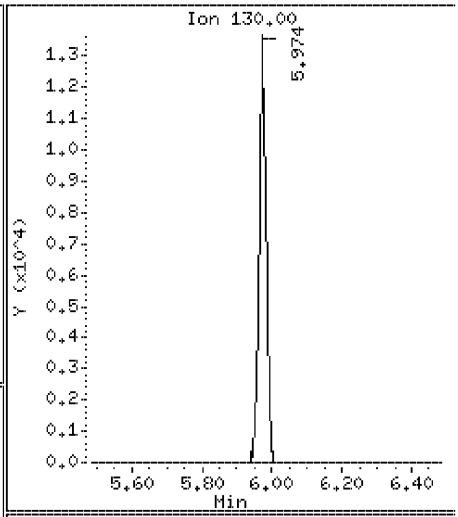
Concentration: 0.416 ppbv

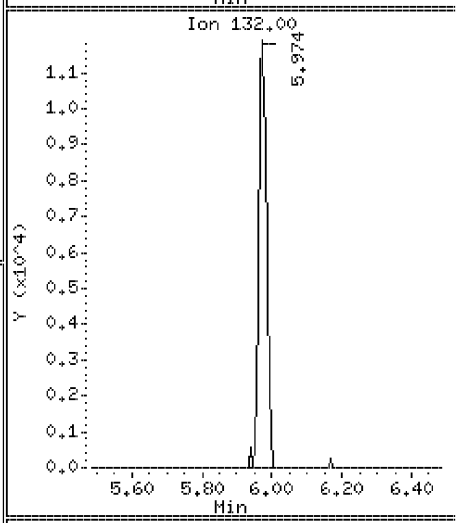


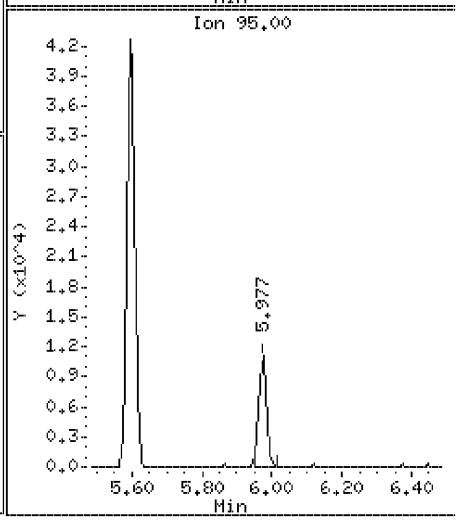












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

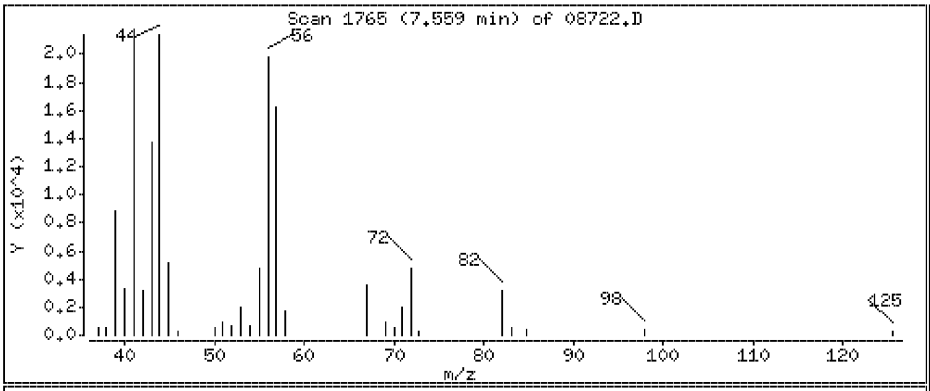
Operator: NCK

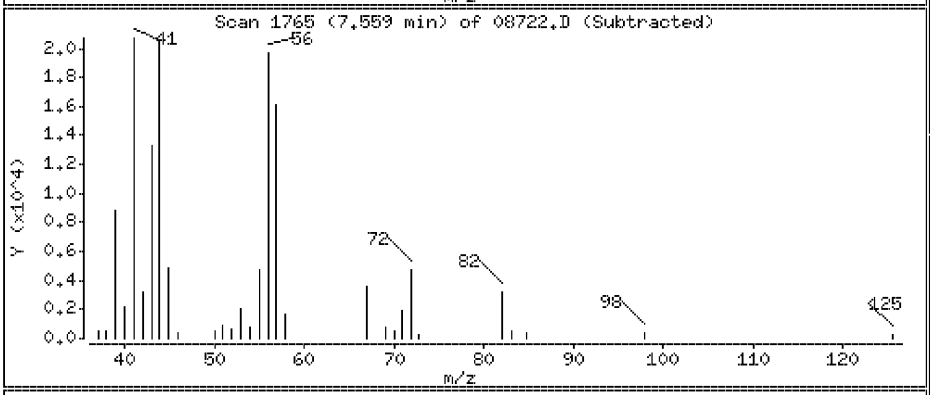
Column phase: J&W DB-5

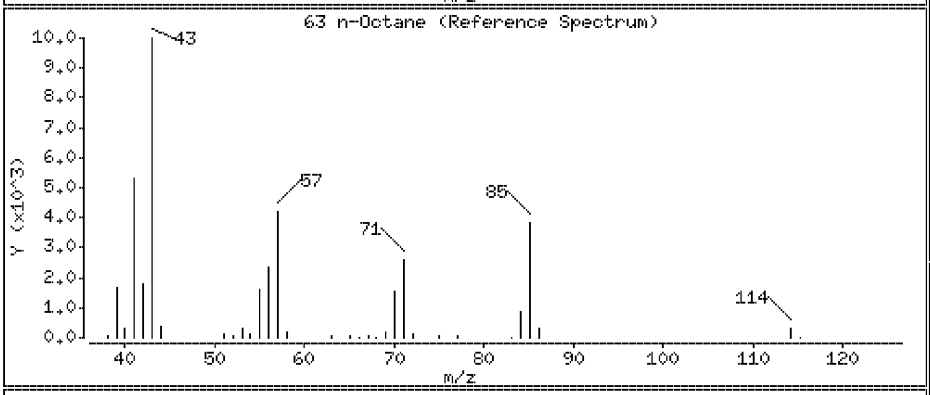
Column diameter: 0.32

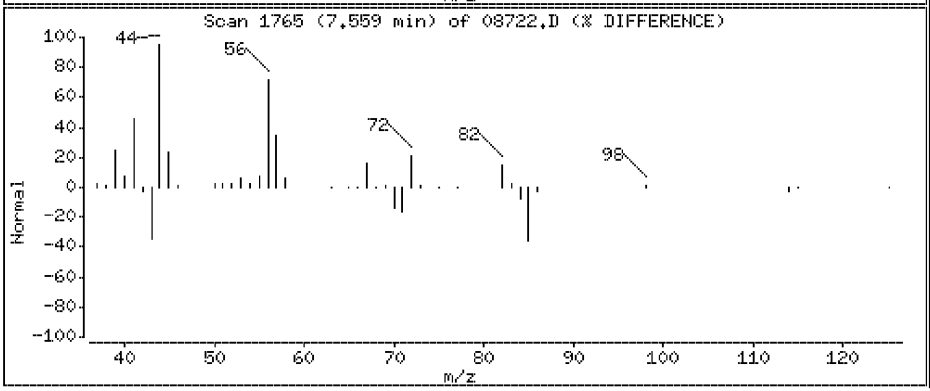
63 n-Octane

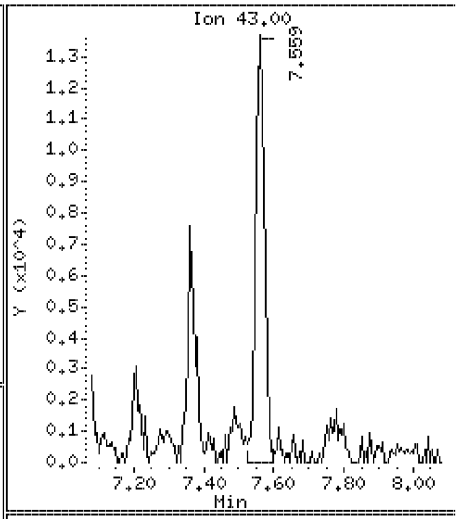
Concentration: 0.337 ppbv

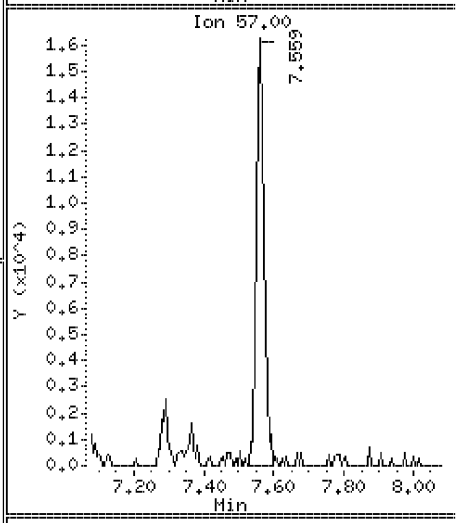


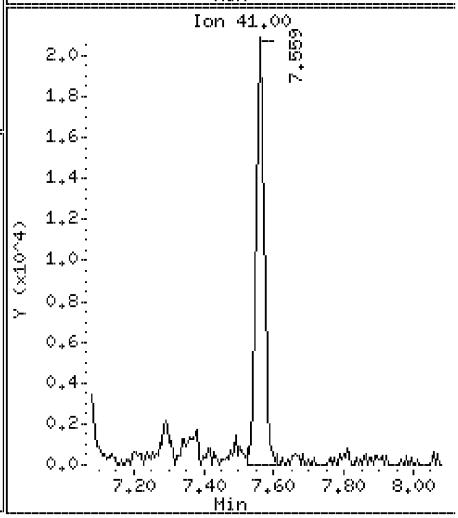












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

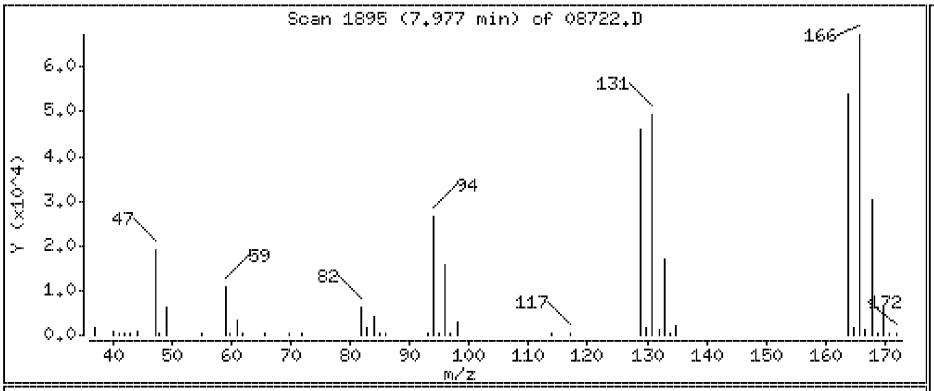
Operator: NCK

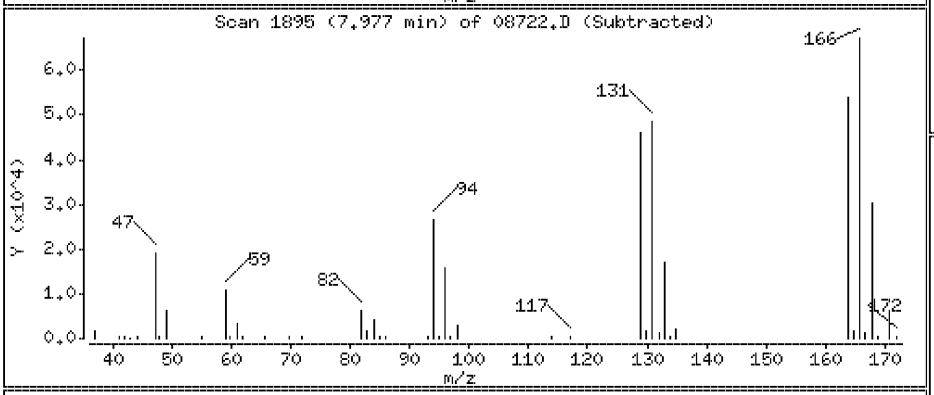
Column phase: J&W DB-5

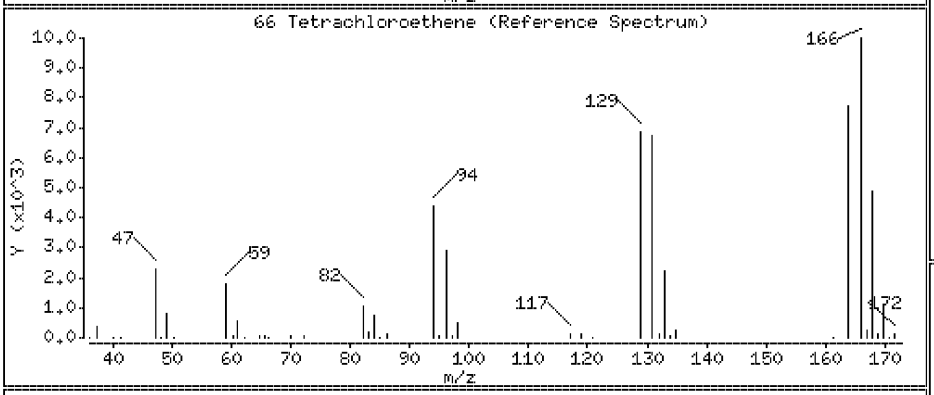
Column diameter: 0.32

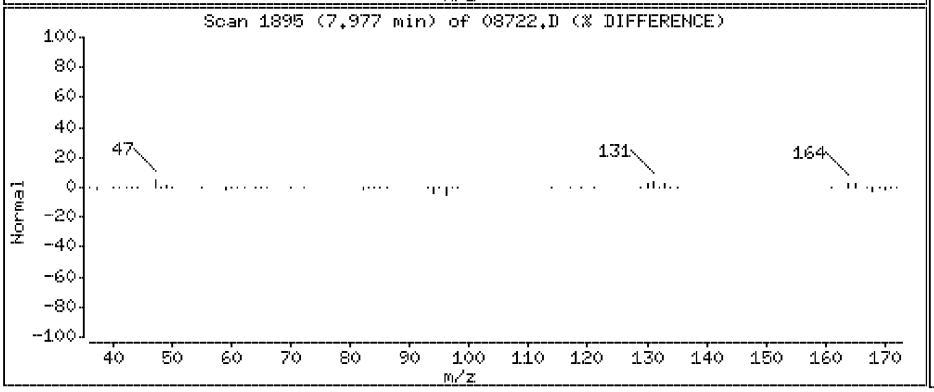
66 Tetrachloroethene

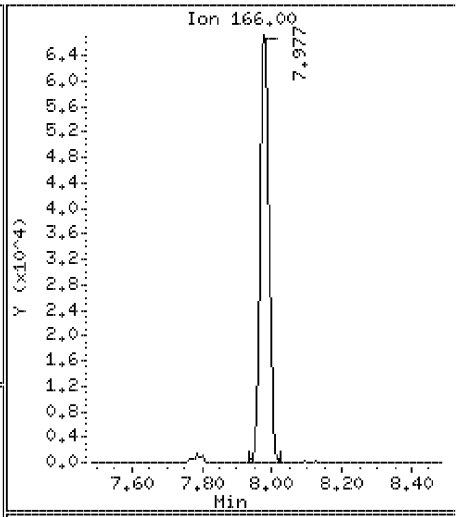
Concentration: 2.03 ppbv

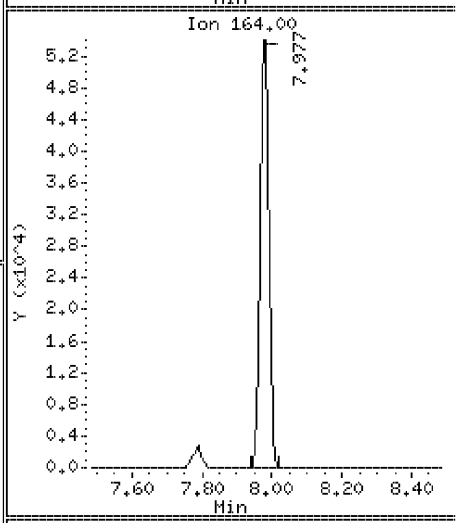


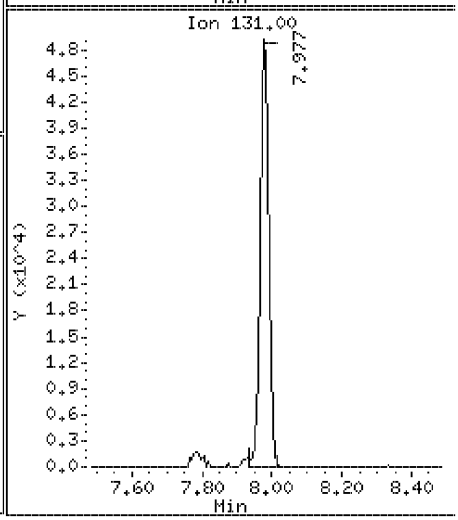












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

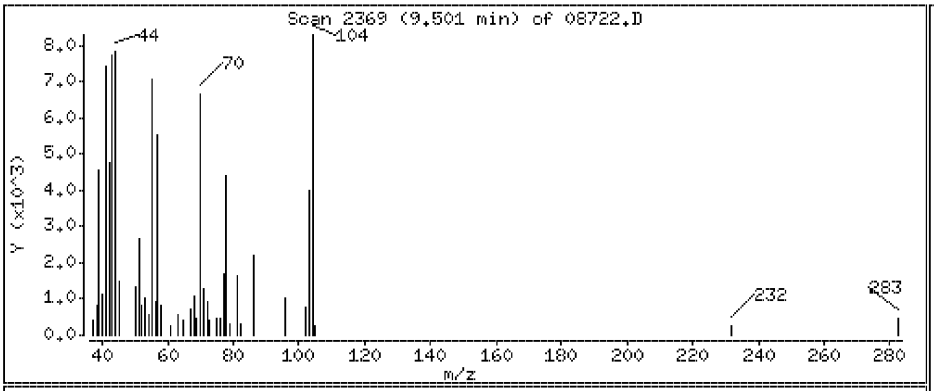
Operator: NCK

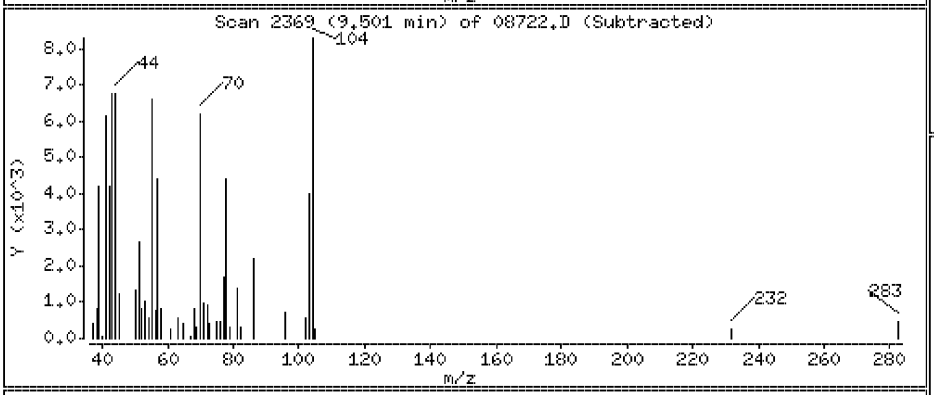
Column phase: J&W DB-5

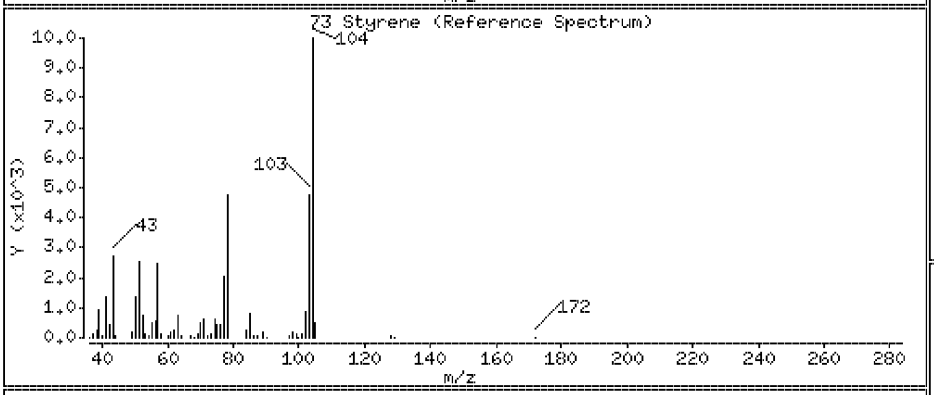
Column diameter: 0.32

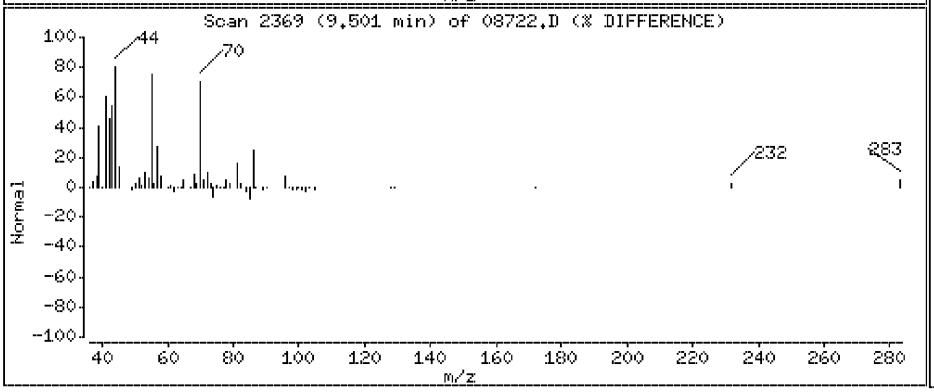
73 Styrene

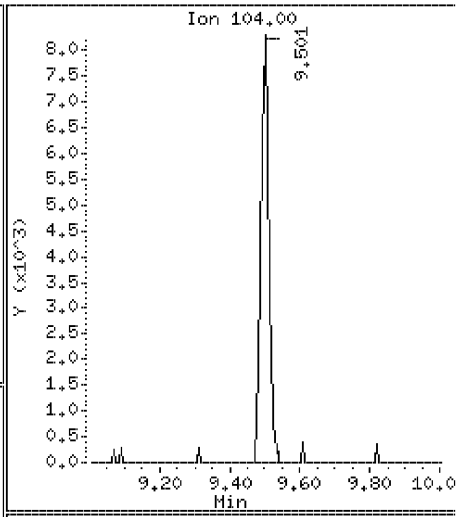
Concentration: 0.183 ppbv

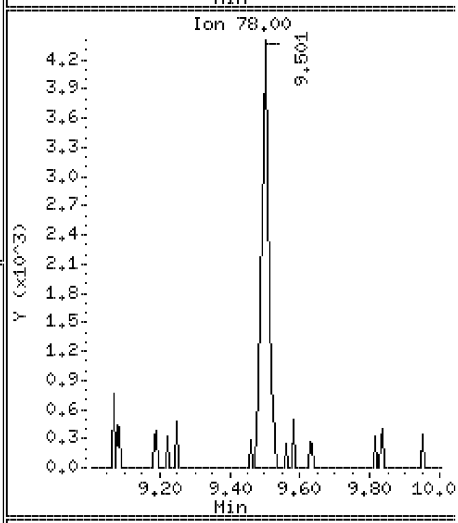


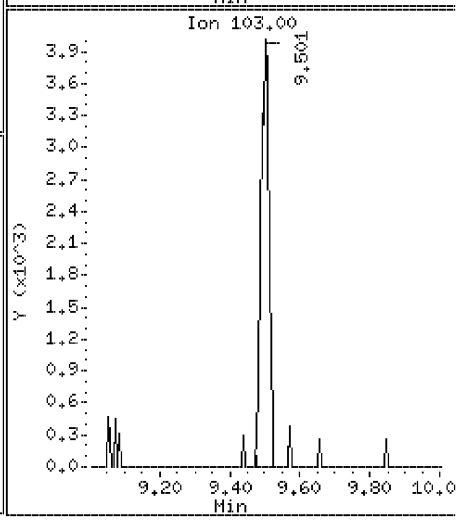












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08722.D

Date : 28-MAR-2017 20:11

Client ID:

Instrument: 10airB.i

Sample Info:

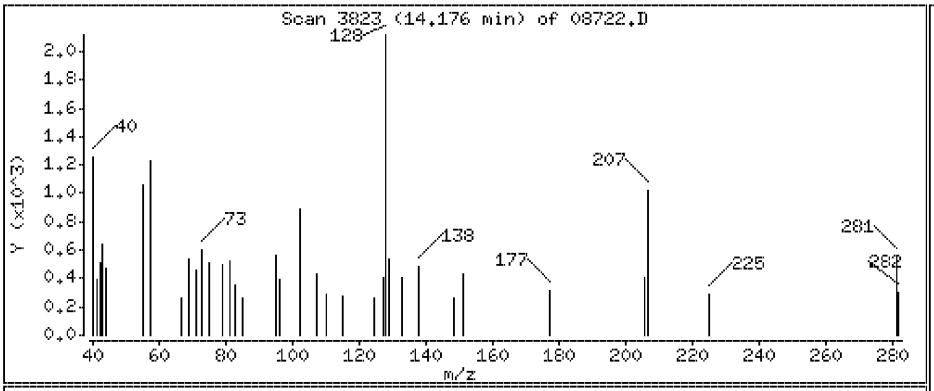
Operator: NCK

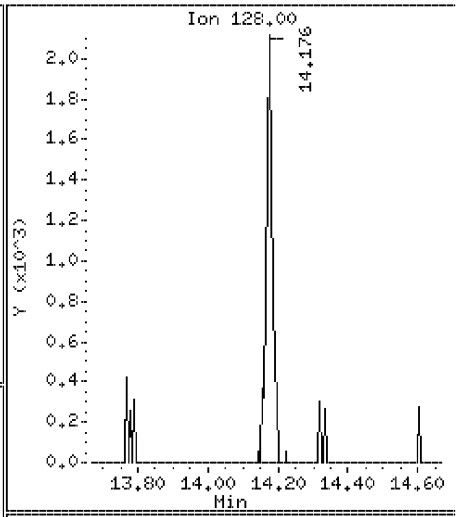
Column phase: J&W DB-5

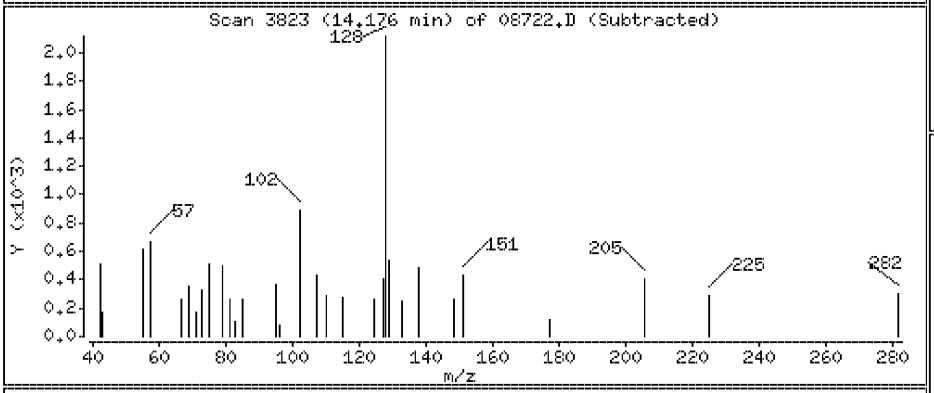
Column diameter: 0.32

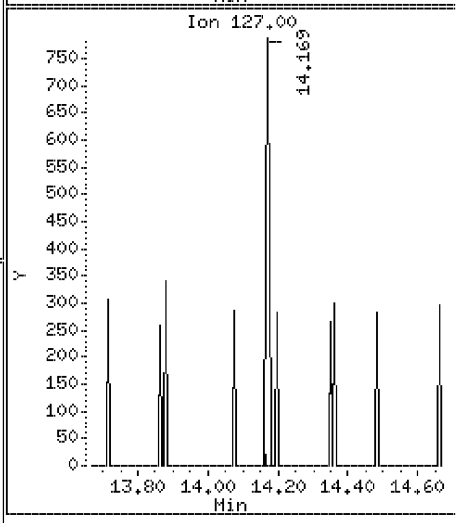
94 Naphthalene

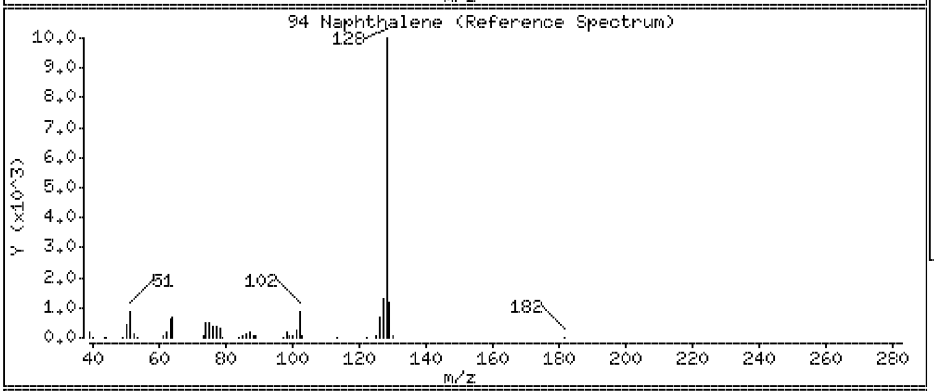
Concentration: 0.608 ppbv

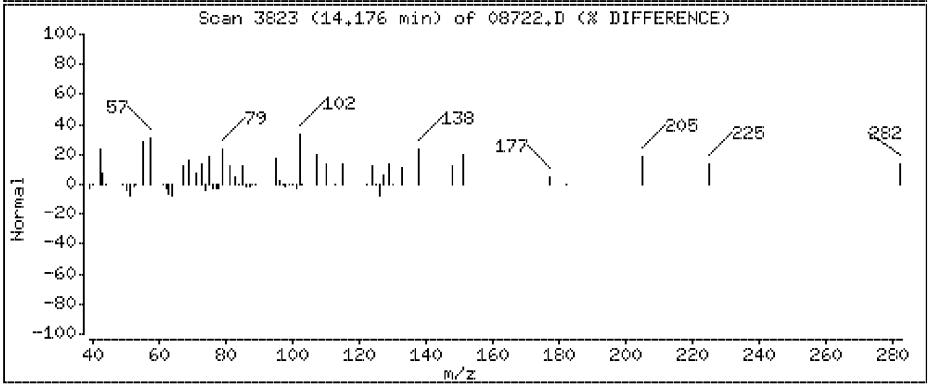






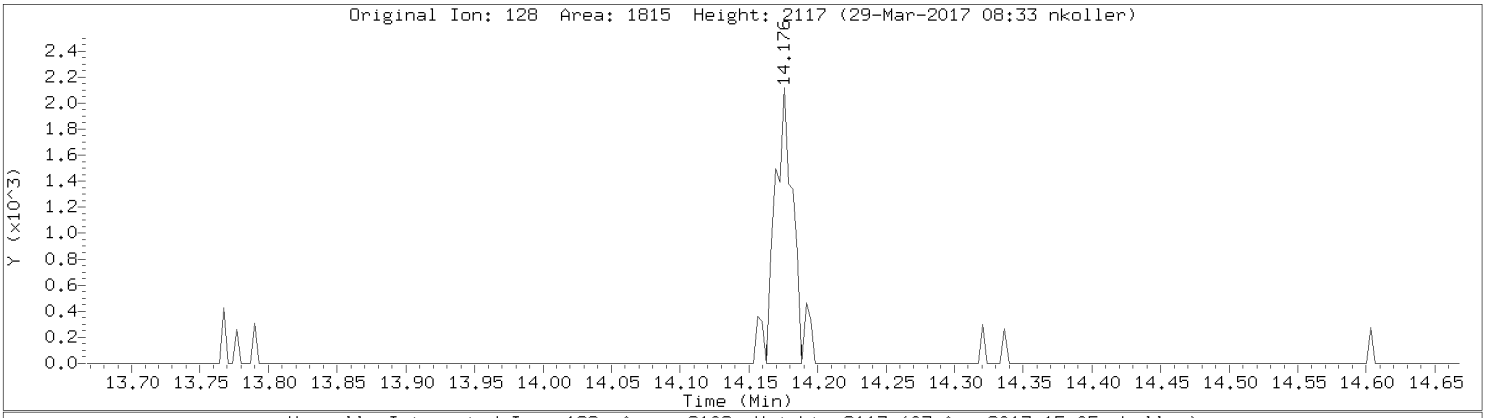


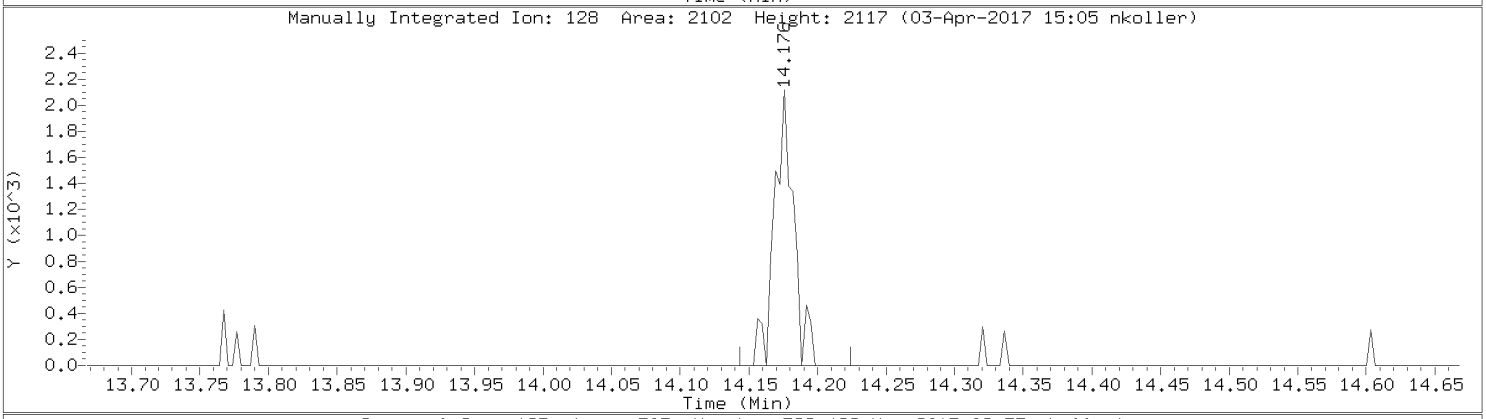


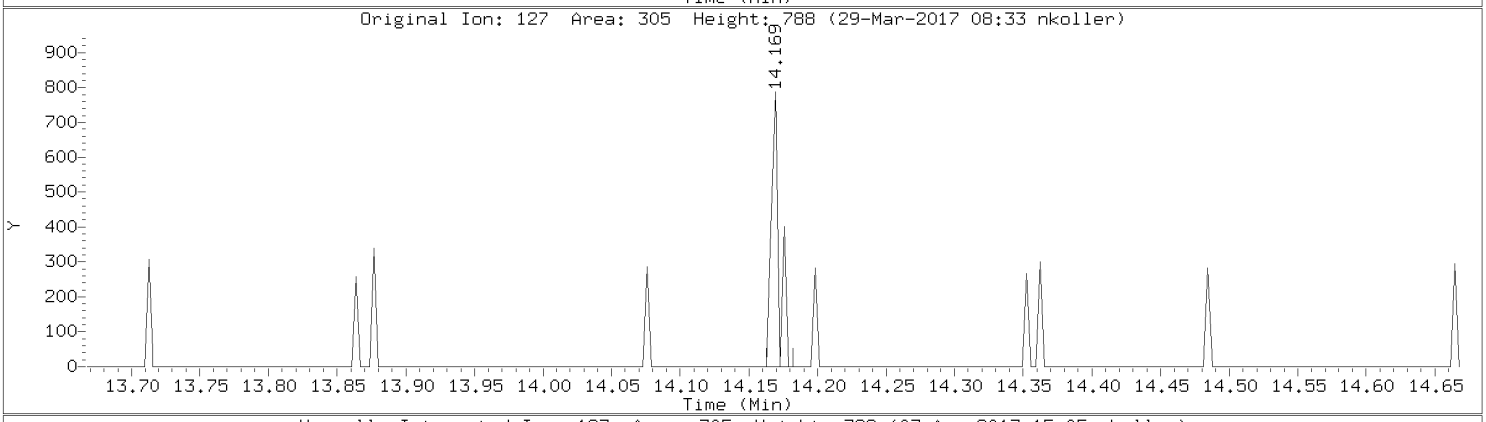


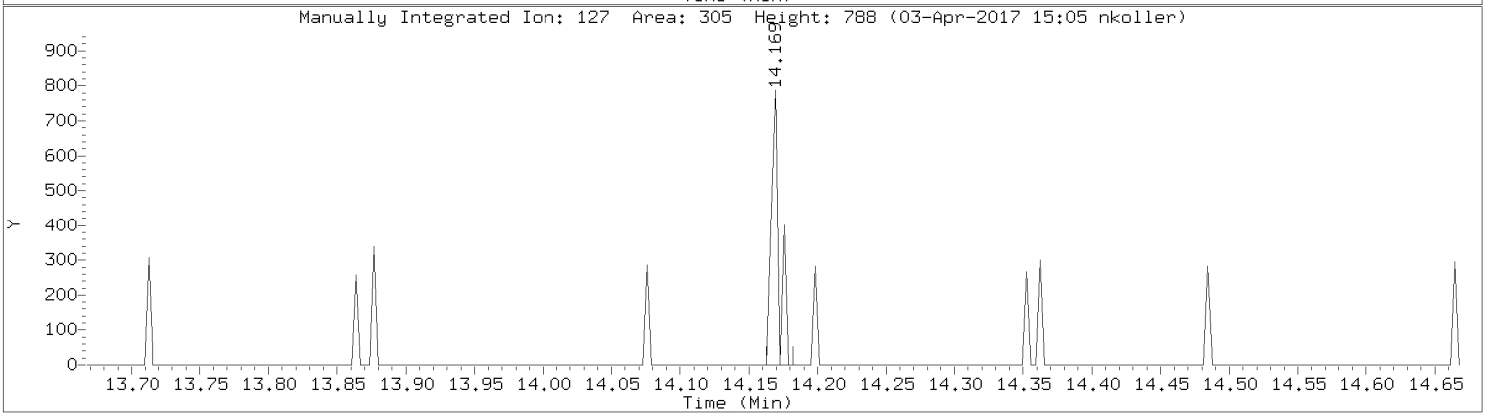
Data File: \\192.168.10.12\chem\10airB.i\032817.b/08722.D
Injection Date: 28-MAR-2017 20:11
Instrument: 10airB.i
Lab Sample ID: 10381335026

Compound: Naphthalene
CAS Number: 91-20-3









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_5_20170307DUP **Lab ID: 10381335026** Collected: 03/07/17 12:01 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**2.1J**	ug/m3	4.2	0.40	1.68		03/28/17 20:11	67-63-0	
Styrene	**0.79J**	ug/m3	1.5	0.32	1.68		03/28/17 20:11	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/28/17 20:11	79-34-5	
Tetrachloroethene	**14.0**	ug/m3	1.2	0.47	1.68		03/28/17 20:11	127-18-4	
Toluene	**<0.26**	ug/m3	1.3	0.26	1.68		03/28/17 20:11	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/28/17 20:11	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/28/17 20:11	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/28/17 20:11	79-00-5	
Trichloroethene	**2.3**	ug/m3	0.92	0.46	1.68		03/28/17 20:11	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.9	0.22	1.68		03/28/17 20:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.0J**	ug/m3	2.7	0.51	1.68		03/28/17 20:11	76-13-1	
1,2,4-Trimethylbenzene	**<0.21**	ug/m3	1.7	0.21	1.68		03/28/17 20:11	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/28/17 20:11	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/28/17 20:11	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/28/17 20:11	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/28/17 20:11	95-47-6	

Sample: VP-3_30_20170307 **Lab ID: 10381335027** Collected: 03/07/17 12:36 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<7.6**	ug/m3	22.1	7.6	9.15		03/28/17 23:14	67-64-1	
Allyl chloride	**<2.1**	ug/m3	14.5	2.1	9.15		03/28/17 23:14	107-05-1	
Benzene	**<1.1**	ug/m3	3.0	1.1	9.15		03/28/17 23:14	71-43-2	
Bromodichloromethane	**<1.8**	ug/m3	12.4	1.8	9.15		03/28/17 23:14	75-27-4	
Bromoform	**<8.2**	ug/m3	19.2	8.2	9.15		03/28/17 23:14	75-25-2	
Bromomethane	**<2.8**	ug/m3	7.2	2.8	9.15		03/28/17 23:14	74-83-9	
1,3-Butadiene	**<1.6**	ug/m3	4.1	1.6	9.15		03/28/17 23:14	106-99-0	
2-Butanone (MEK)	**<2.1**	ug/m3	27.4	2.1	9.15		03/28/17 23:14	78-93-3	
Carbon disulfide	**<0.92**	ug/m3	5.8	0.92	9.15		03/28/17 23:14	75-15-0	
Carbon tetrachloride	**<1.8**	ug/m3	5.9	1.8	9.15		03/28/17 23:14	56-23-5	
Chlorobenzene	**<1.2**	ug/m3	8.6	1.2	9.15		03/28/17 23:14	108-90-7	
Chlorodifluoromethane	**<2.5**	ug/m3	6.6	2.5	9.15		03/28/17 23:14	75-45-6	
Chloroethane	**<1.8**	ug/m3	4.9	1.8	9.15		03/28/17 23:14	75-00-3	
Chloroform	**7.2**	ug/m3	4.5	1.7	9.15		03/28/17 23:14	67-66-3	
Chloromethane	**<0.99**	ug/m3	3.8	0.99	9.15		03/28/17 23:14	74-87-3	
Chloropentafluoroethane	**<29.4**	ug/m3	29.4	29.4	9.15		03/28/17 23:14	76-15-3	
Cyclohexane	**<2.9**	ug/m3	6.4	2.9	9.15		03/28/17 23:14	110-82-7	
1,2-Dibromo-3-chloropropane	**<44.9**	ug/m3	44.9	44.9	9.15		03/28/17 23:14	96-12-8	
Dibromochloromethane	**<7.8**	ug/m3	15.8	7.8	9.15		03/28/17 23:14	124-48-1	
1,2-Dibromoethane (EDB)	**<7.1**	ug/m3	14.3	7.1	9.15		03/28/17 23:14	106-93-4	
1,2-Dichlorobenzene	**<4.7**	ug/m3	11.2	4.7	9.15		03/28/17 23:14	95-50-1	
1,3-Dichlorobenzene	**<4.8**	ug/m3	11.2	4.8	9.15		03/28/17 23:14	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_30_20170307 **Lab ID: 10381335027** Collected: 03/07/17 12:36 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<4.6**	ug/m3	11.2	4.6	9.15		03/28/17 23:14	106-46-7	
Dichlorodifluoromethane	**4.7J**	ug/m3	9.2	4.4	9.15		03/28/17 23:14	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/m3	7.5	1.4	9.15		03/28/17 23:14	75-34-3	
1,2-Dichloroethane	**<1.9**	ug/m3	3.8	1.9	9.15		03/28/17 23:14	107-06-2	
1,1-Dichloroethene	**<2.2**	ug/m3	7.4	2.2	9.15		03/28/17 23:14	75-35-4	
cis-1,2-Dichloroethene	**23.8**	ug/m3	7.4	2.3	9.15		03/28/17 23:14	156-59-2	
trans-1,2-Dichloroethene	**<3.5**	ug/m3	7.4	3.5	9.15		03/28/17 23:14	156-60-5	
1,2-Dichloropropane	**<2.5**	ug/m3	8.6	2.5	9.15		03/28/17 23:14	78-87-5	
cis-1,3-Dichloropropene	**<3.4**	ug/m3	8.4	3.4	9.15		03/28/17 23:14	10061-01-5	
trans-1,3-Dichloropropene	**<2.4**	ug/m3	21.1	2.4	9.15		03/28/17 23:14	10061-02-6	
Dichlorotetrafluoroethane	**<2.8**	ug/m3	13.0	2.8	9.15		03/28/17 23:14	76-14-2	
Freon 123	**<29.1**	ug/m3	29.1	29.1	9.15		03/28/17 23:14	306-83-2	
1,4-Dioxane (p-Dioxane)	**<3.2**	ug/m3	33.5	3.2	9.15		03/28/17 23:14	123-91-1	
Ethylbenzene	**<3.9**	ug/m3	8.1	3.9	9.15		03/28/17 23:14	100-41-4	
4-Ethyltoluene	**<1.7**	ug/m3	9.2	1.7	9.15		03/28/17 23:14	622-96-8	
Hexachloro-1,3-butadiene	**<5.9**	ug/m3	19.8	5.9	9.15		03/28/17 23:14	87-68-3	
n-Hexane	**<3.3**	ug/m3	6.6	3.3	9.15		03/28/17 23:14	110-54-3	
2-Hexanone	**<3.8**	ug/m3	38.1	3.8	9.15		03/28/17 23:14	591-78-6	
Isopropylbenzene (Cumene)	**<1.3**	ug/m3	22.9	1.3	9.15		03/28/17 23:14	98-82-8	
Methyl acetate	**<14.1**	ug/m3	14.1	14.1	9.15		03/28/17 23:14	79-20-9	
Methylcyclohexane	**<2.2**	ug/m3	7.5	2.2	9.15		03/28/17 23:14	108-87-2	
Methylene Chloride	**<5.0**	ug/m3	32.3	5.0	9.15		03/28/17 23:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<2.0**	ug/m3	38.1	2.0	9.15		03/28/17 23:14	108-10-1	
Methyl-tert-butyl ether	**<2.8**	ug/m3	33.5	2.8	9.15		03/28/17 23:14	1634-04-4	
2-Propanol	**<2.2**	ug/m3	22.9	2.2	9.15		03/28/17 23:14	67-63-0	
Styrene	**<1.8**	ug/m3	8.0	1.8	9.15		03/28/17 23:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<3.0**	ug/m3	6.4	3.0	9.15		03/28/17 23:14	79-34-5	
Tetrachloroethene	**172**	ug/m3	6.3	2.5	9.15		03/28/17 23:14	127-18-4	
Toluene	**<1.4**	ug/m3	7.0	1.4	9.15		03/28/17 23:14	108-88-3	
1,2,4-Trichlorobenzene	**<8.3**	ug/m3	34.5	8.3	9.15		03/28/17 23:14	120-82-1	
1,1,1-Trichloroethane	**<2.3**	ug/m3	10.2	2.3	9.15		03/28/17 23:14	71-55-6	
1,1,2-Trichloroethane	**<2.3**	ug/m3	5.0	2.3	9.15		03/28/17 23:14	79-00-5	
Trichloroethene	**83.4**	ug/m3	5.0	2.5	9.15		03/28/17 23:14	79-01-6	
Trichlorofluoromethane	**<1.2**	ug/m3	10.4	1.2	9.15		03/28/17 23:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<2.8**	ug/m3	14.6	2.8	9.15		03/28/17 23:14	76-13-1	
1,2,4-Trimethylbenzene	**<1.1**	ug/m3	9.1	1.1	9.15		03/28/17 23:14	95-63-6	
1,3,5-Trimethylbenzene	**<1.7**	ug/m3	9.1	1.7	9.15		03/28/17 23:14	108-67-8	
Vinyl chloride	**<1.8**	ug/m3	2.4	1.8	9.15		03/28/17 23:14	75-01-4	
m&p-Xylene	**<7.2**	ug/m3	16.2	7.2	9.15		03/28/17 23:14	179601-23-1	
o-Xylene	**<3.2**	ug/m3	8.1	3.2	9.15		03/28/17 23:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D
Report Date: 03-Apr-2017 15:11

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08728.D
Lab Smp Id: 10381335027
Inj Date : 28-MAR-2017 23:14
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 03-Apr-2017 14:58 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 28
Dil Factor: 9.15000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	9.150	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.069	3.028	(0.549)	12941	0.10144	0.928	
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.555	3.539	(0.636)	6561	0.42697	3.91	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D
Report Date: 03-Apr-2017 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						(D)
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.478	(0.801)	856872	9.85633	9.86	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	4.700	4.722	(0.840)	24852	0.64650	5.92(Q)	
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.809	4.838	(0.860)	12166	0.15954	1.46	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.593	5.610	(1.000)	2317502	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.970	5.986	(1.067)	117036	1.66832	15.3	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.063	7.073	(1.263)	1922143	9.83814	9.84	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.976	7.986	(0.924)	244987	2.73178	25.0	
*	67 Chlorobenzene - d5	117	8.635	8.642	(1.000)	1369331	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D
Report Date: 03-Apr-2017 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.372)	533399	8.20556	8.21
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D
Report Date: 03-Apr-2017 15:11

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08728.D
Lab Smp Id: 10381335027
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

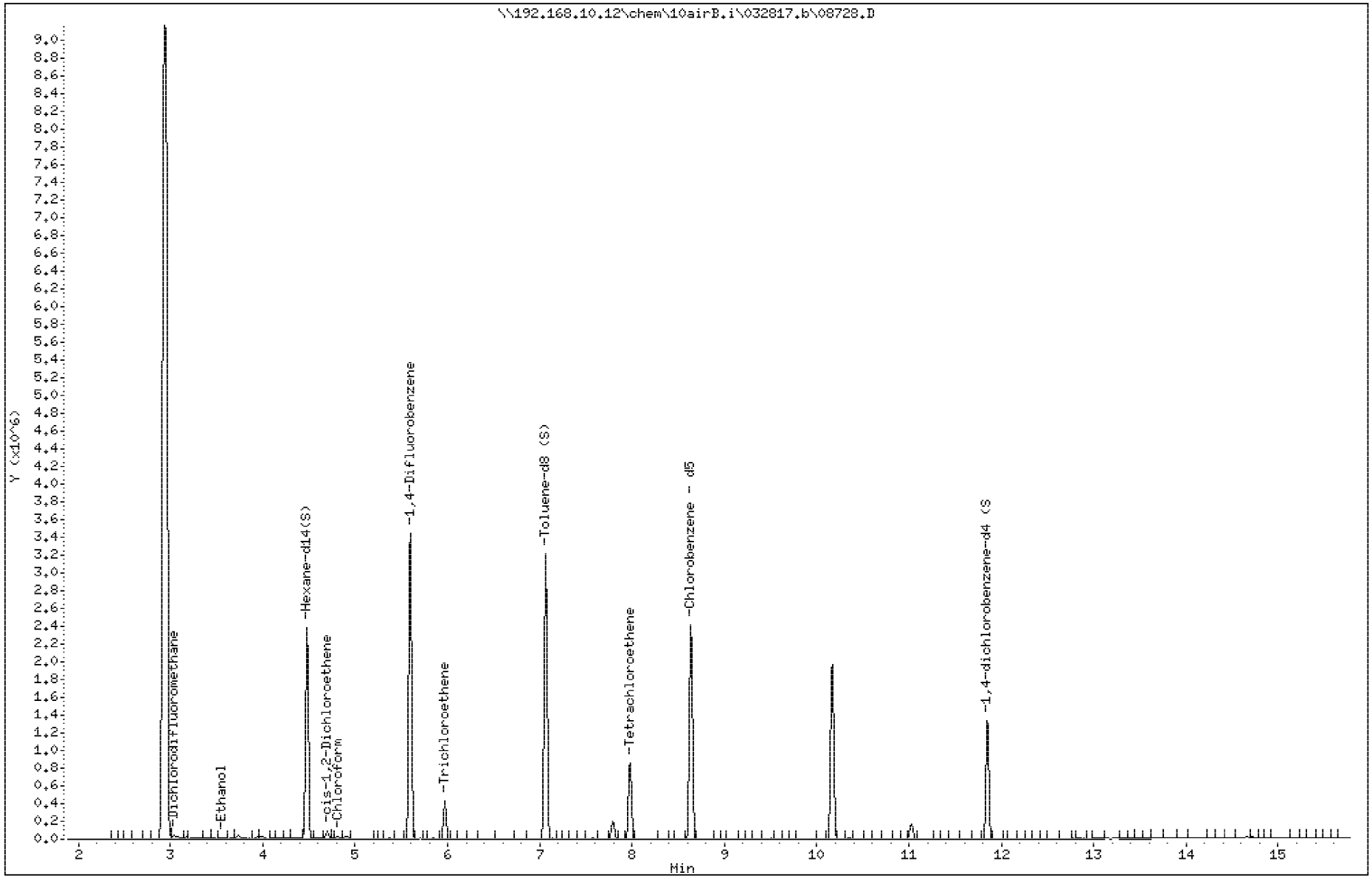
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2317502	-18.16
67 Chlorobenzene - d	1804482	1082689	2526275	1369331	-24.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.29
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D
Date : 28-MAR-2017 23:14
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D

Date : 28-MAR-2017 23:14

Client ID:

Instrument: 10airB.i

Sample Info:

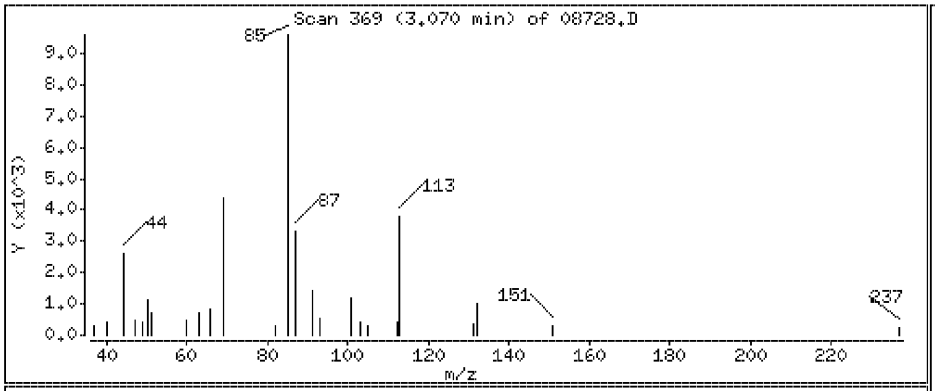
Operator: NCK

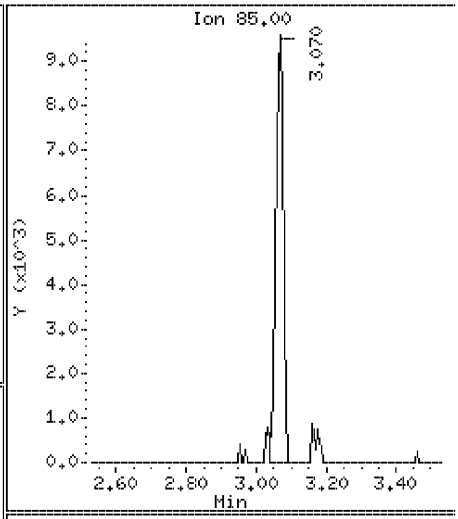
Column phase: J&W DB-5

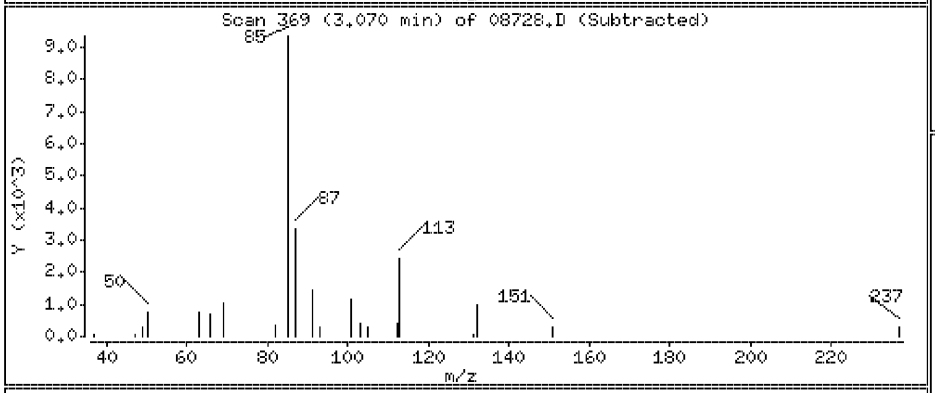
Column diameter: 0.32

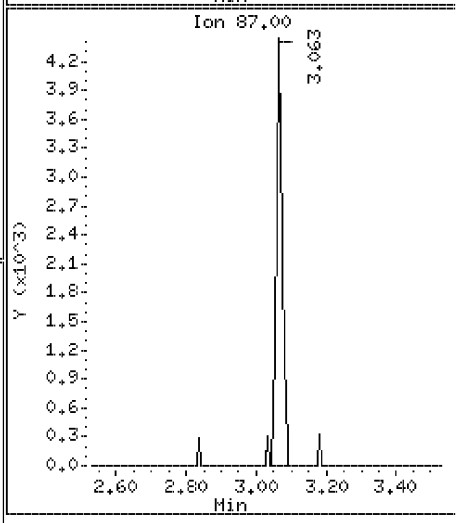
5 Dichlorodifluoromethane

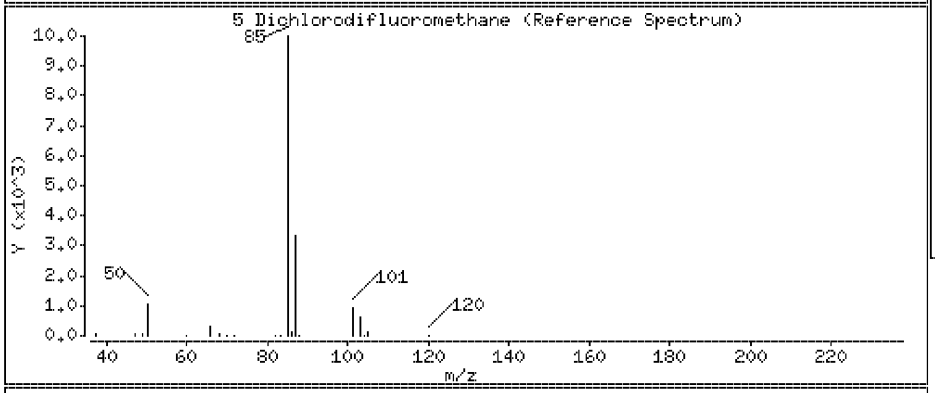
Concentration: 0.928 ppbv

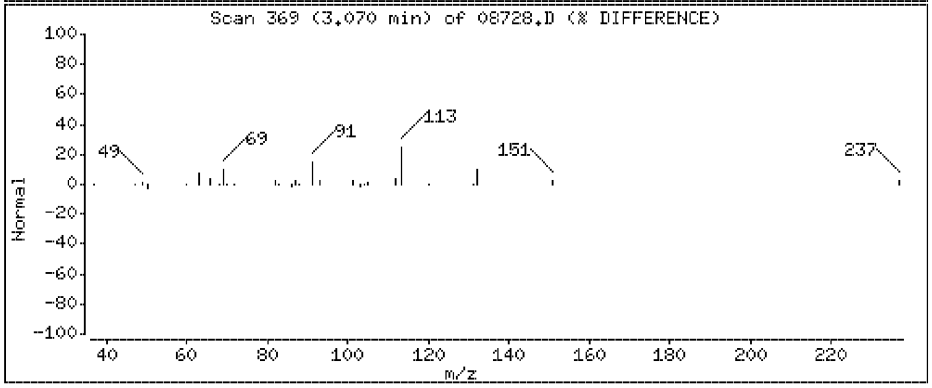












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D

Date : 28-MAR-2017 23:14

Client ID:

Instrument: 10airB.i

Sample Info:

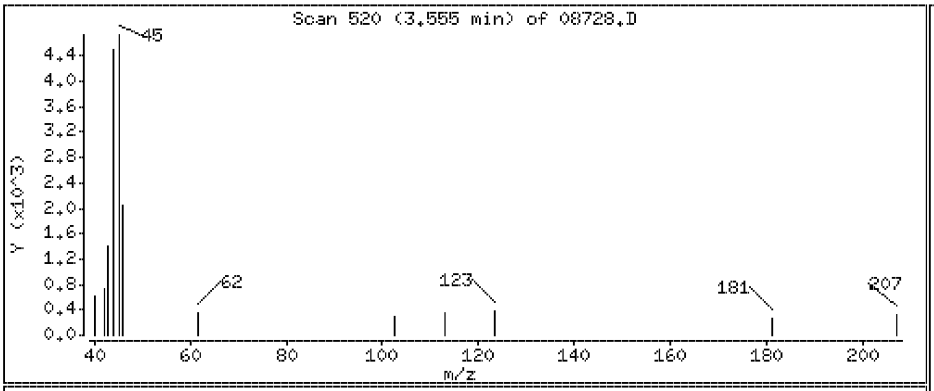
Operator: NCK

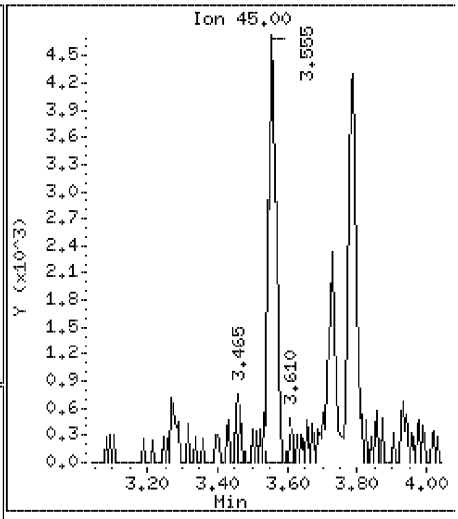
Column phase: J&W DB-5

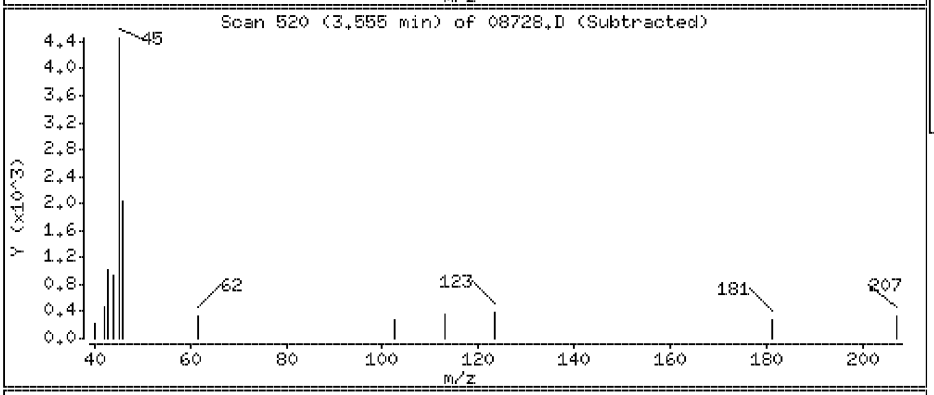
Column diameter: 0.32

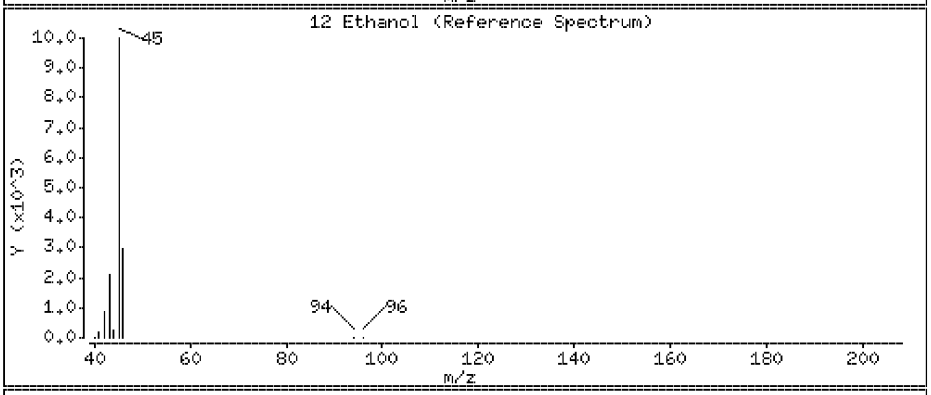
12 Ethanol

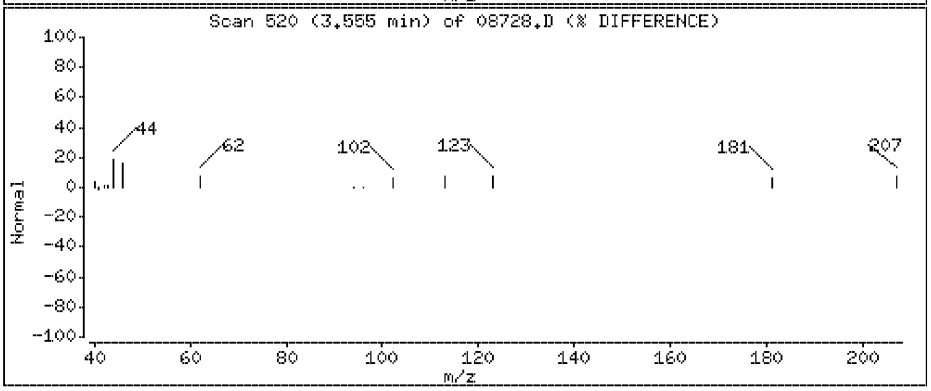
Concentration: 3.91 ppbv











Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D

Date : 28-MAR-2017 23:14

Client ID:

Instrument: 10airB.i

Sample Info:

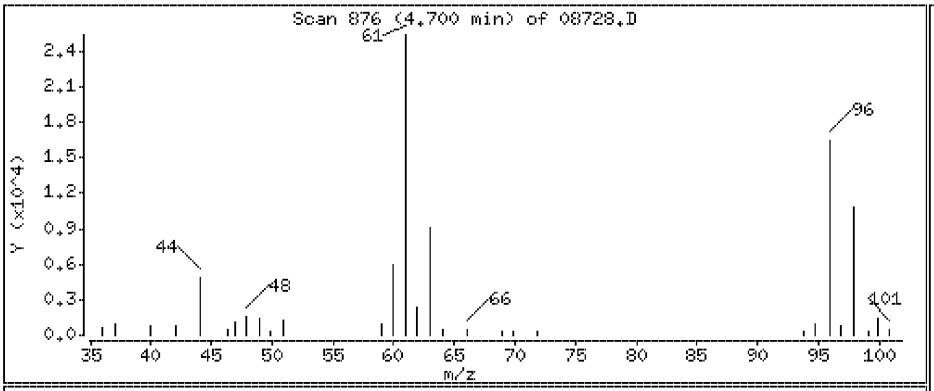
Operator: NCK

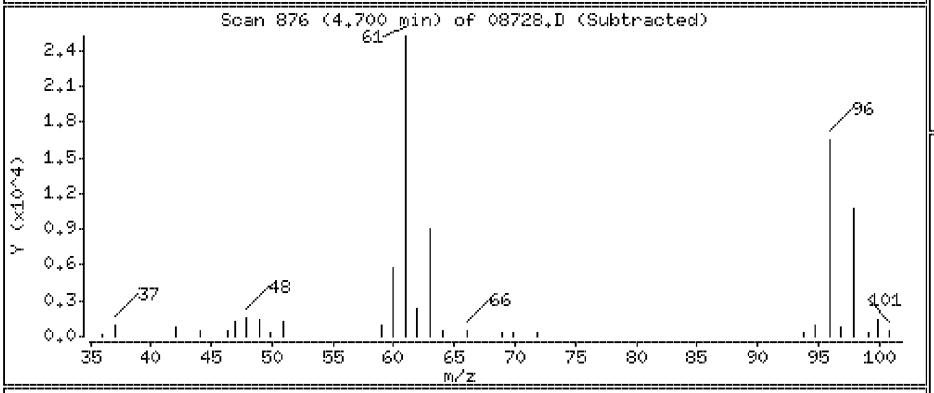
Column phase: J&W DB-5

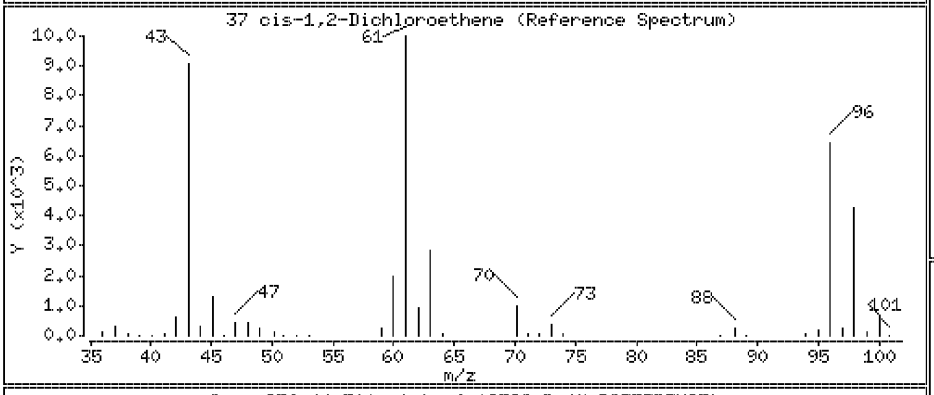
Column diameter: 0.32

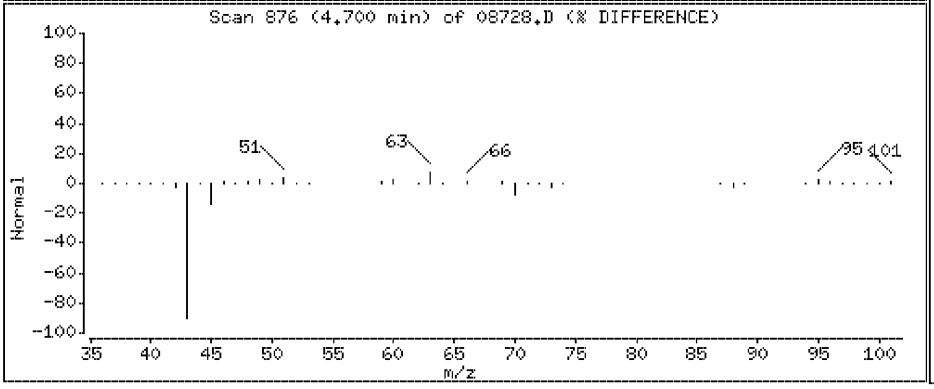
37 cis-1,2-Dichloroethene

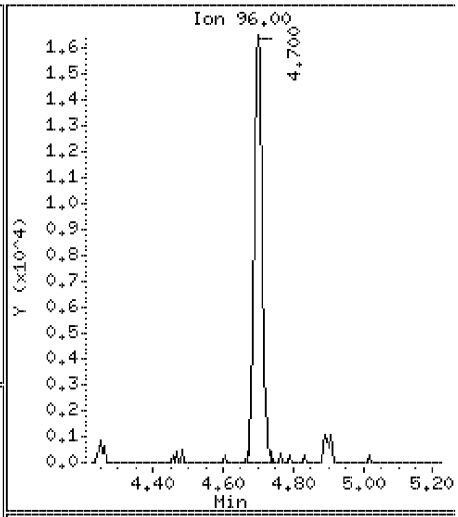
Concentration: 5.92 ppbv

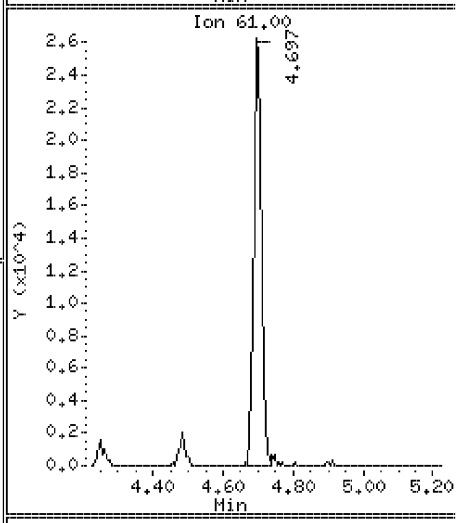


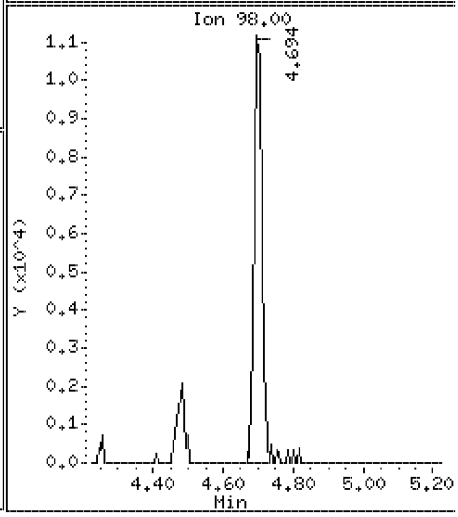












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D

Date : 28-MAR-2017 23:14

Client ID:

Instrument: 10airB.i

Sample Info:

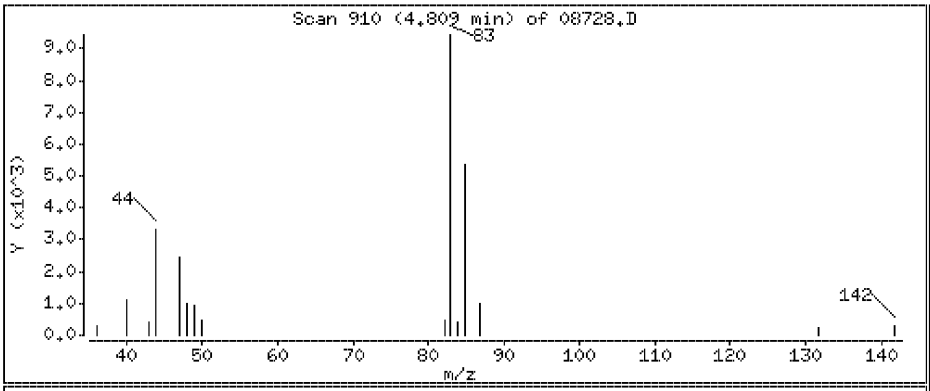
Operator: NCK

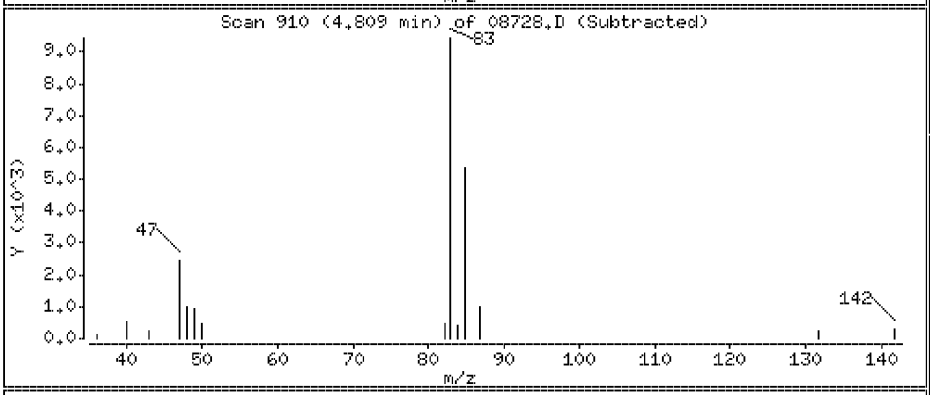
Column phase: J&W DB-5

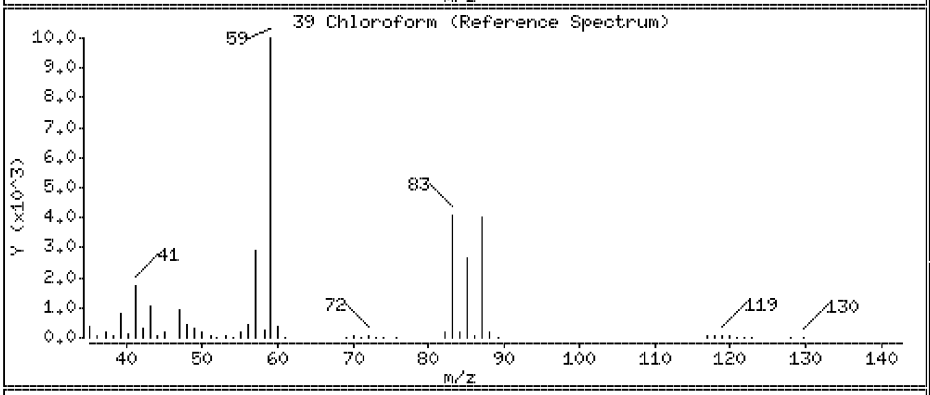
Column diameter: 0.32

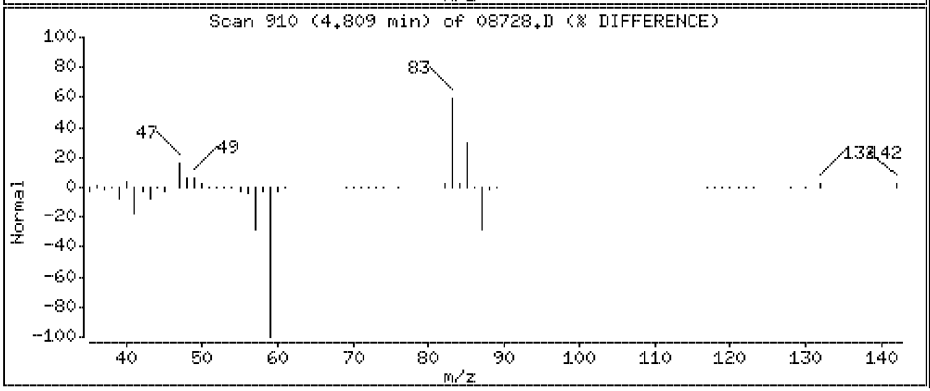
39 Chloroform

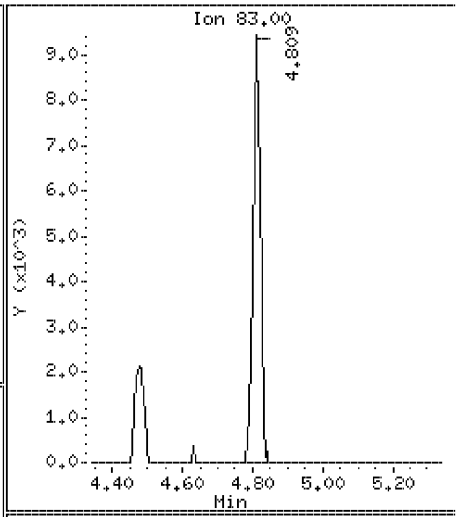
Concentration: 1.46 ppbv

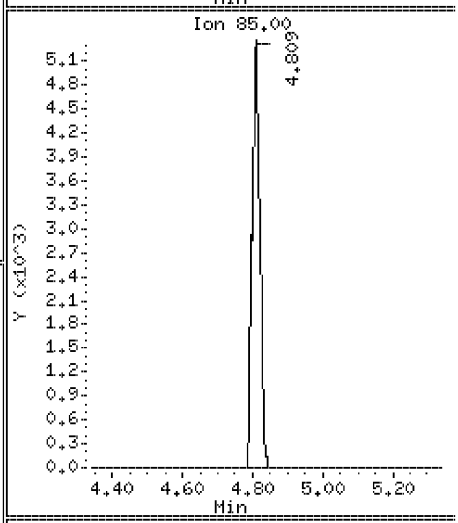


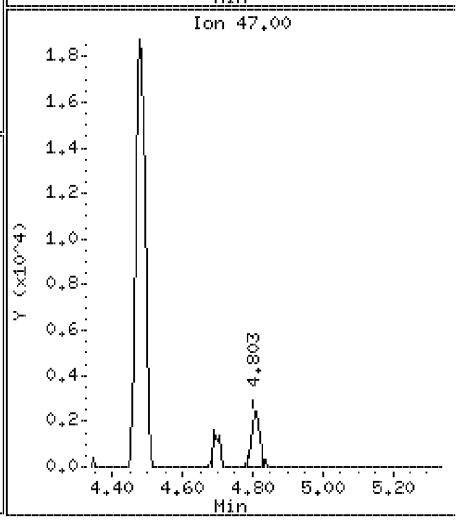












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D

Date : 28-MAR-2017 23:14

Client ID:

Instrument: 10airB.i

Sample Info:

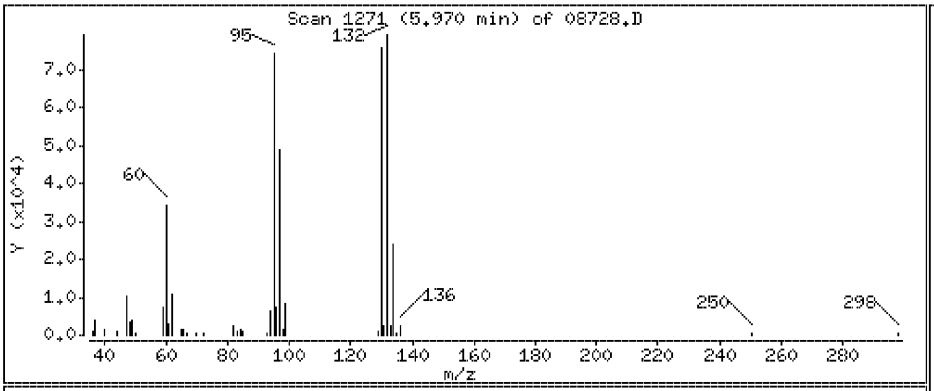
Operator: NCK

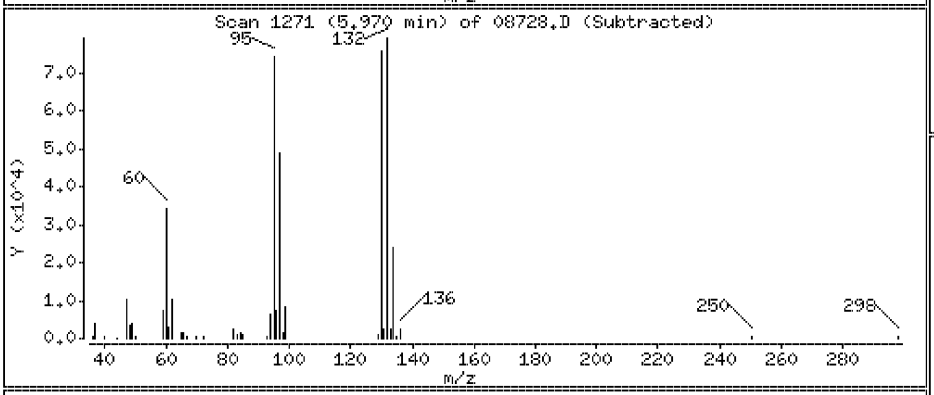
Column phase: J&W DB-5

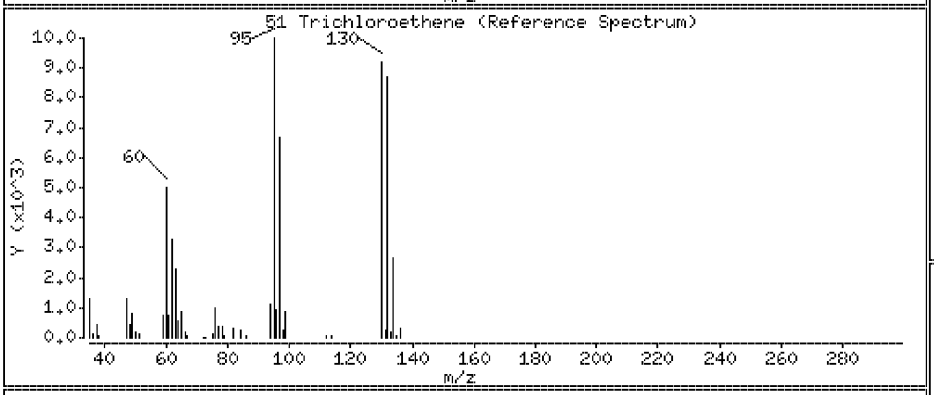
Column diameter: 0.32

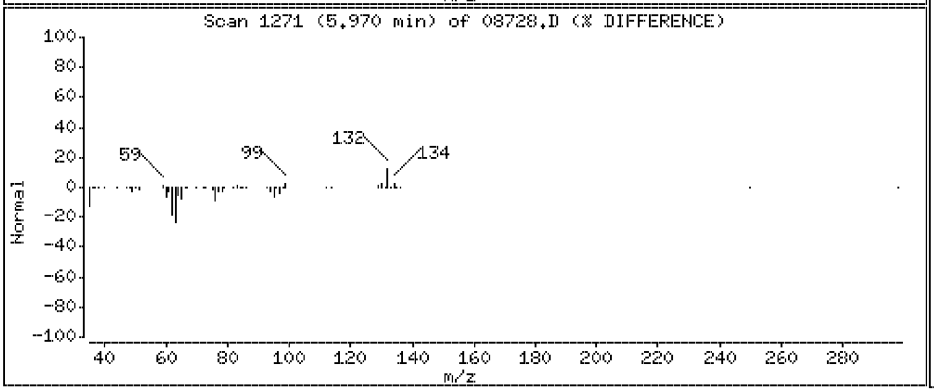
51 Trichloroethene

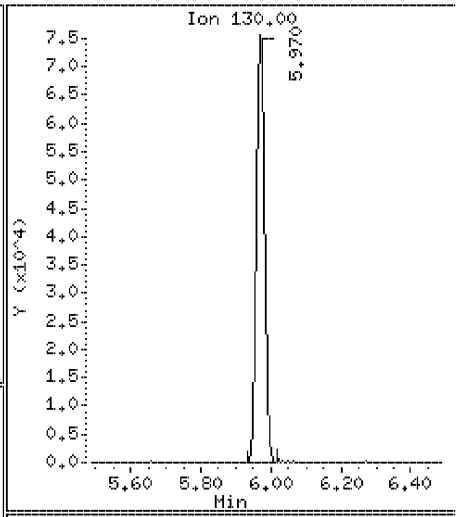
Concentration: 15.3 ppbv

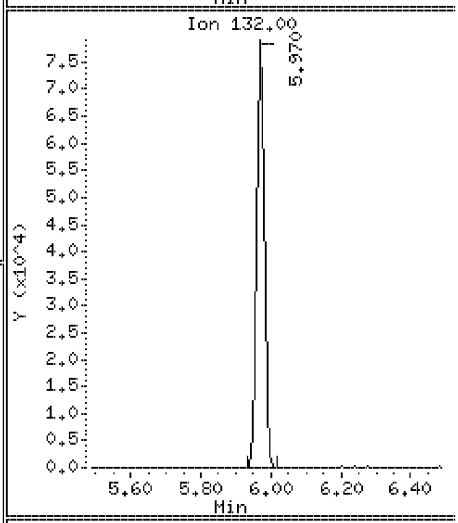


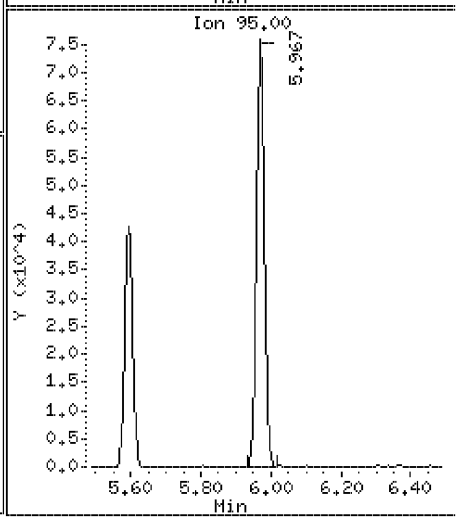












Data File: \\192.168.10.12\chem\10airB.i\032817.b\08728.D

Date : 28-MAR-2017 23:14

Client ID:

Instrument: 10airB.i

Sample Info:

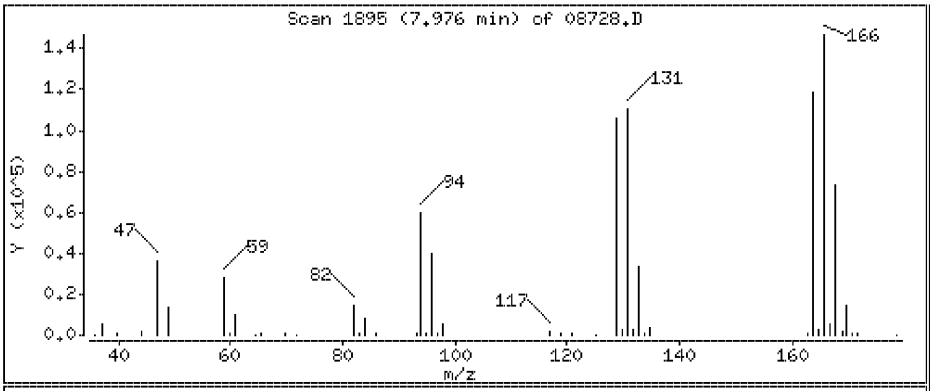
Operator: NCK

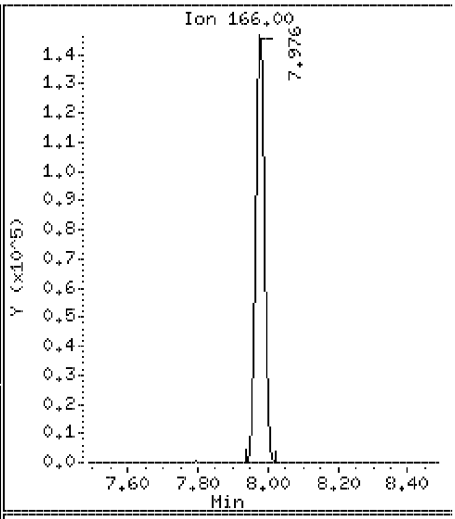
Column phase: J&W DB-5

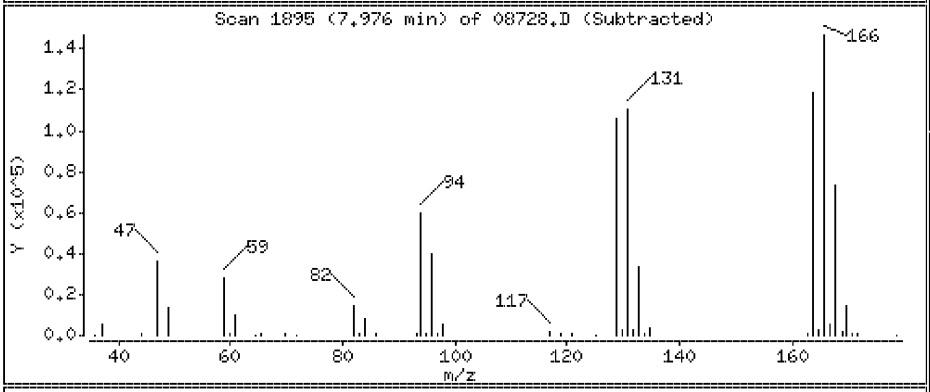
Column diameter: 0.32

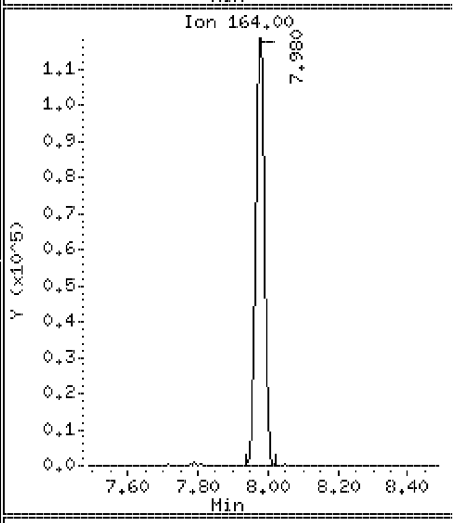
66 Tetrachloroethene

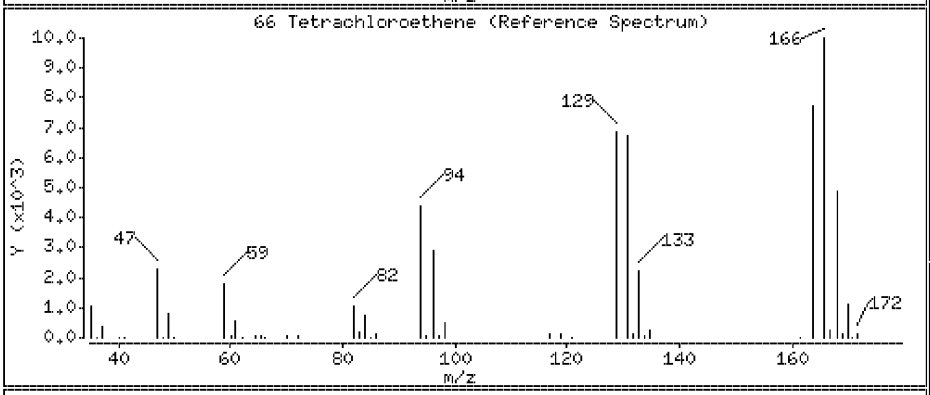
Concentration: 25.0 ppbv

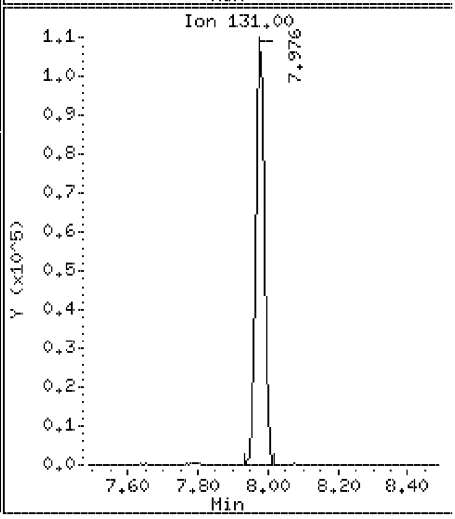


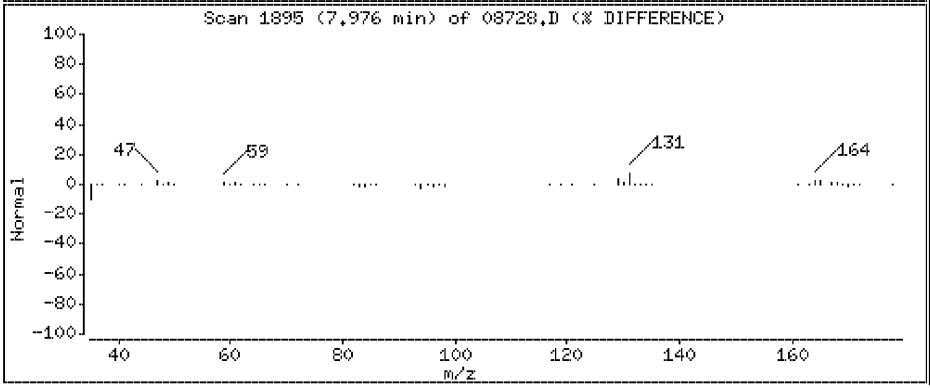












Data File: \\192.168.10.12\chem\10airB.i\032817.b/08728.D
Injection Date: 28-MAR-2017 23:14
Instrument: 10airB.i
Lab Sample ID: 10381335027
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\032717.b\08610.D
Level 02: all \\192.168.10.12\chem\10airB.i\032717.b\08611.D
Level 03: all \\192.168.10.12\chem\10airB.i\032717.b\08612.D
Level 04: all \\192.168.10.12\chem\10airB.i\032717.b\08613.D
Level 05: all \\192.168.10.12\chem\10airB.i\032717.b\08614.D
Level 06: all \\192.168.10.12\chem\10airB.i\032717.b\08615.D
Level 07: all \\192.168.10.12\chem\10airB.i\032717.b\08616.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	6977	13972	29811	42629	322987	440639	+++++	QUAD	0.00164	0.14656	-0.03419	0.99983
2 1,1-Difluoroethane	0.09849	0.11583	0.11069	0.11498	0.11986	0.11743						
	0.11930							AVRG		0.11380		6.51234
3 Chlorodifluoromethane	0.03988	0.05524	0.05172	0.05288	0.05460	0.05125						
	0.05256							AVRG		0.05116		10.12850
4 Propylene	0.14852	0.15812	0.16137	0.15280	0.14495	0.13833						
	0.14235							AVRG		0.14949		5.61942

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	0.54600	0.63010	0.55566	0.55100	0.53693	0.51049					
	0.52302						AVRG		0.55046		7.00576
6 Chloromethane	0.21013	0.22191	0.22464	0.22794	0.23820	0.22818					
	0.23819						AVRG		0.22703		4.28917
7 Dichlorotetrafluoroethane	0.39112	0.51551	0.52933	0.52585	0.51000	0.48384					
	0.48612						AVRG		0.49168		9.71638
8 Vinyl chloride	0.15718	0.19229	0.17646	0.18572	0.19992	0.19532					
	0.20690						AVRG		0.18768		8.85914
9 1,3-Butadiene	0.10721	0.13583	0.14699	0.14346	0.15209	0.14909					
	0.15759						AVRG		0.14175		11.76907
10 Bromomethane	0.11021	0.15186	0.15472	0.15729	0.15975	0.15434					
	0.16266						AVRG		0.15012		11.96759
11 Chloroethane	0.05980	0.07392	0.07892	0.07985	0.08679	0.08568					
	0.09098						AVRG		0.07942		13.03279

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.06424	0.06519	0.06685	0.06438	0.06912	0.06718					
	0.06719						AVRG		0.06631		2.68095
13 Vinyl Bromide	0.12720	0.15620	0.15764	0.15600	0.15884	0.15106					
	0.15110						AVRG		0.15115		7.26693
14 Isopentane	0.16593	0.20906	0.18533	0.19558	0.19066	0.17985					
	0.19442						AVRG		0.18869		7.19805
15 Freon 123	8301	20163	50263	80635	647630	1135553					
	1520106						QUAD	0.00356	0.23762	-0.01677	0.99981
16 Trichlorofluoromethane	0.27976	0.39977	0.40880	0.40425	0.41460	0.39132					
	0.39873						AVRG		0.38532		12.23421
17 Acrolein	0.05447	0.05577	0.06512	0.06130	0.06412	0.06056					
	0.06284						AVRG		0.06060		6.71154
18 Acetone	0.25721	0.27652	0.27351	0.27270	0.26403	0.24565					
	0.23919						AVRG		0.26126		5.56568

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	0.29345	0.31772	0.30607	0.30948	0.29805	0.27183					
	0.26191						AVRG		0.29407		6.92155
20 1,1-Dichloroethene	0.22499	0.28591	0.27978	0.27583	0.28373	0.27220					
	0.27636						AVRG		0.27126		7.71982
21 Acrylonitrile	0.12516	0.13543	0.13319	0.13702	0.14200	0.13210					
	0.12836						AVRG		0.13332		4.17781
22 Freon 113	0.27162	0.34678	0.33179	0.32948	0.31736	0.28675					
	0.28213						AVRG		0.30942		9.37535
23 Methyl Acetate	0.42851	0.45922	0.46450	0.45342	0.43172	0.38808					
	0.38195						AVRG		0.42963		7.75684
24 Tert Butyl Alcohol (TBA)	0.38163	0.40301	0.41117	0.39850	0.37172	0.32678					
	0.32173						AVRG		0.37351		9.68238
25 Methylene chloride	0.19183	0.22498	0.21507	0.21177	0.19903	0.18250					
	0.17679						AVRG		0.20028		8.88902

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
26 Allyl Chloride	0.05283	0.05673	0.05926	0.06167	0.04920	0.04537					
	0.04497						AVRG		0.05286		12.57888
27 Carbon Disulfide	0.31197	0.35472	0.34391	0.35630	0.37251	0.36533					
	0.36923						AVRG		0.35342		5.86093
28 trans-1,2-dichloroethene	0.13786	0.16080	0.15034	0.15260	0.15634	0.14916					
	0.15176						AVRG		0.15127		4.70291
29 Methyl Tert Butyl Ether	0.37571	0.42204	0.42301	0.42464	0.41475	0.38457					
	0.37761						AVRG		0.40319		5.63588
30 Vinyl Acetate	0.42590	0.41177	0.43588	0.44312	0.45245	0.44794					
	0.45910						AVRG		0.43945		3.71996
31 1,1-Dichloroethane	0.24956	0.29021	0.29855	0.30950	0.30905	0.29762					
	0.30477						AVRG		0.29418		7.08358
33 Methyl Ethyl Ketone	0.08984	0.08943	0.07902	0.07502	0.07413	0.07521					
	0.07784						AVRG		0.08007		8.43412

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.29112	0.31331	0.29412	0.29609	0.29608	0.28294					
	0.29708						AVRG		0.29582		3.08146
35 Di-isopropyl Ether	0.56923	0.57441	0.56430	0.58077	0.57623	0.55291					
	0.64430						AVRG		0.58031		5.10982
36 Ethyl Acetate	0.34927	0.39571	0.36477	0.36824	0.37752	0.36220					
	0.44101						AVRG		0.37982		8.04852
37 cis-1,2-Dichloroethene	0.14620	0.15828	0.15594	0.16828	0.16779	0.16297					
	0.20165						AVRG		0.16587		10.56155
38 Ethyl Tert-Butyl Ether	0.64922	0.62926	0.57413	0.57046	0.63810	0.53084					
	0.53053						AVRG		0.58893		8.49660
39 Chloroform	0.34389	0.32304	0.30662	0.30658	0.36274	0.32428					
	0.33615						AVRG		0.32904		6.16896
40 Tetrahydrofuran	0.22092	0.23712	0.22151	0.21905	0.23528	0.22993					
	0.23657						AVRG		0.22863		3.49396

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.38586	0.45878	0.42957	0.43429	0.44867	0.41844					
	0.41562						AVRG		0.42732		5.59803
42 1,2-Dichloroethane	0.31420	0.33030	0.34659	0.33414	0.33805	0.31790					
	0.31440						AVRG		0.32794		3.87099
43 Benzene	0.53350	0.61442	0.58949	0.59023	0.59511	0.56202					
	0.55283						AVRG		0.57680		4.88321
44 Carbon tetrachloride	0.35500	0.41309	0.41240	0.43727	0.45330	0.41654					
	0.40485						AVRG		0.41321		7.43077
45 Cyclohexane	0.33561	0.36352	0.34753	0.34221	0.33244	0.30391					
	0.29498						AVRG		0.33146		7.29643
46 Tert Amyl Methyl Ether	45369	58362	109172	186304	1701309	3164442					
	4558414						LINR	0.01279	0.56387		0.99975
48 2,2,4-Trimethylpentane	1.07505	1.15094	1.10407	1.07940	1.02135	0.87044					
	0.77314						AVRG		1.01062		13.60719

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
49 Heptane	0.32966	0.35865	0.37674	0.37303	0.37970	0.36466					
	0.36567						AVRG		0.36402		4.62596
50 1,2-Dichloropropane	0.21860	0.22653	0.22580	0.22697	0.23735	0.22788					
	0.22463						AVRG		0.22682		2.45216
51 Trichloroethene	0.29682	0.29807	0.29911	0.30640	0.31474	0.30353					
	0.30026						AVRG		0.30270		2.06336
52 Methyl methacrylate	0.19798	0.22593	0.19530	0.20034	0.21442	0.20234					
	0.20605						AVRG		0.20605		5.21339
53 1,4-Dioxane	0.13267	0.14568	0.15195	0.13411	0.14578	0.13826					
	0.13727						AVRG		0.14082		5.04260
54 Bromodichloromethane	0.33794	0.38140	0.39103	0.41293	0.45107	0.42033					
	0.41744						AVRG		0.40173		8.94627
55 Methylcyclohexane	0.15307	0.17322	0.18472	0.16518	0.17604	0.17034					
	0.17194						AVRG		0.17064		5.73262

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
56 Methyl Isobutyl Ketone	0.48165	0.51637	0.52441	0.51485	0.51508	0.46543					
	0.44295						AVRG		0.49439		6.33076
57 cis-1,3-Dichloropropene	0.29278	0.30600	0.30561	0.31947	0.35837	0.34589					
	0.35323						AVRG		0.32591		8.06669
58 trans-1,3-Dichloropropene	6584	15064	37649	80369	924741	1807671					
	2691808						LINR	-0.00428	0.33294		0.99969
60 1,1,2-Trichloroethane	0.23960	0.25684	0.23325	0.23888	0.25296	0.23294					
	0.22951						AVRG		0.24057		4.34641
61 Toluene	0.65513	0.70924	0.71813	0.72508	0.73964	0.69101					
	0.67494						AVRG		0.70188		4.23930
62 Methyl Butyl Ketone	0.71948	0.73689	0.71376	0.69919	0.74379	0.68468					
	0.62551						AVRG		0.70333		5.67342
63 n-Octane	0.85382	0.81537	0.81364	0.79781	0.79050	0.73282					
	0.69614						AVRG		0.78573		6.83156

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
64 Dibromochloromethane	0.65335	0.63813	0.65764	0.69963	0.77569	0.72880					
	0.69104						AVRG		0.69204		6.97845
65 1,2-Dibromoethane	0.63567	0.59730	0.62752	0.62505	0.66214	0.62058					
	0.59490						AVRG		0.62331		3.68929
66 Tetrachloroethene	0.72375	0.71957	0.67707	0.67561	0.62739	0.59849					
	0.56257						AVRG		0.65492		9.31053
68 Chlorobenzene	1.00369	0.96357	0.95228	0.94807	0.97774	0.92238					
	0.88018						AVRG		0.94970		4.18591
69 Ethyl Benzene	1.52342	1.42529	1.50279	1.51470	1.52692	1.42207					
	1.34430						AVRG		1.46564		4.75423
70 m&p-Xylene	1.15907	1.20968	1.17384	1.17986	1.15162	1.03340					
	0.93118						AVRG		1.11981		8.94524
71 n-Nonane	0.73667	0.74335	0.73737	0.72960	0.71981	0.63792					
	0.57857						AVRG		0.69761		9.15030

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
72 Bromoform	0.45639	0.49967	0.50277	0.53048	0.62871	0.58310					
	0.53799						AVRG		0.53416		10.69583
73 Styrene	0.81597	0.81159	0.79683	0.82080	0.89186	0.83857					
	0.78422						AVRG		0.82284		4.25567
74 o-Xylene	1.18664	1.16418	1.21683	1.17623	1.17538	1.09734					
	1.02806						AVRG		1.14924		5.61464
75 1,1,2,2-Tetrachloroethane	0.61333	0.60604	0.59399	0.60836	0.67483	0.64733					
	0.62159						AVRG		0.62364		4.49467
76 Isopropylbenzene	1.60008	1.65744	1.61083	1.58022	1.59246	1.47884					
	1.38326						AVRG		1.55759		6.03000
77 N-Propylbenzene	1.45279	1.56930	1.64779	1.67908	1.80632	1.70387					
	1.59279						AVRG		1.63599		6.85642
78 4-Ethyltoluene	1.31285	1.29474	1.33554	1.40823	1.53623	1.46754					
	1.37796						AVRG		1.39044		6.28792

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,3,5-Trimethylbenzene	1.21299	1.22520	1.19787	1.24006	1.30081	1.22168	1.15339	AVRG		1.22171		3.64797
80 n-Decane	0.35073	0.40463	0.38622	0.42056	0.48691	0.48906	0.49302	AVRG		0.43302		13.18813
81 Tert-Butyl Benzene	1.35621	1.42278	1.31724	1.32624	1.34166	1.22654	1.14037	AVRG		1.30443		7.11584
82 1,2,4-Trimethylbenzene	1.03498	1.13455	1.07314	1.10657	1.18034	1.08194	0.98359	AVRG		1.08502		5.94267
83 1,3-Dichlorobenzene	9141	17436	45261	100283	1348695	2580138	3652492	QUAD	-0.01137	0.81287	-0.04901	0.99992
84 Sec- Butylbenzene	1.49850	1.55724	1.55286	1.59469	1.67617	1.52290	1.37427	AVRG		1.53952		6.01644
86 Benzyl Chloride	6025	10633	31855	71788	1380415	2882556	4290403	LINR	-0.01618	0.78820		0.99962

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
87 1,4-Dichlorobenzene	7969	16606	44061	96580	1333261	2651086	3892321	LINR	-0.00080	0.71515		0.99931
88 p-Isopropyltoluene	1.16281	1.27192	1.24865	1.28766	1.45424	1.37350	1.26885	AVRG		1.29538		7.21525
89 1,2,3-Trimethylbenzene	0.92668	1.08407	1.01175	1.03853	1.15364	1.08521	1.01273	AVRG		1.04466		6.89536
90 1,2-Dichlorobenzene	8072	15181	43642	88314	1253138	2507689	3691667	LINR	-0.00188	0.67779		0.99942
91 N-Butylbenzene	10844	22072	64877	139927	2003053	3878354	5647992	LINR	0.00399	1.04064		0.99870
92 1,2-Dibromo-3-Chloropropane	1539	3237	9785	21543	428189	912151	1417510	QUAD	-0.00570	0.24000	0.00634	0.99984
93 1,2,4-Trichlorobenzene	491	845	3396	9982	283452	714934	1236423	QUAD	-0.00455	0.13784	0.02940	0.99975

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	+++++	3746	15081	37941	768688	1820789					
	3031873						QUAD	-0.01305	0.39955	0.05171	0.99982
95 Hexachlorobutadiene	0.19495	0.19491	0.21685	0.22106	0.22520	0.22510					
	0.23019						AVRG		0.21547		6.78070
$ 32 Hexane-d14(S)	0.37155	0.37551	0.37046	0.36570	0.37301	0.38240					
	0.38727						AVRG		0.37513		1.97270
$ 59 Toluene-d8 (S)	0.79041	0.81022	0.81843	0.82511	0.86199	0.88069					
	0.91450						AVRG		0.84305		5.22829
$ 85 1,4-dichlorobenzene-d4 (S)	0.38571	0.41257	0.42828	0.46425	0.53365	0.55268					
	0.54590						AVRG		0.47472		14.56105

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Average %RSD Results.	
Calculated Average %RSD =	7.01386
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08610.D
Report Date: 28-Mar-2017 10:37

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08610.D
Lab Smp Id: cal1
Inj Date : 27-MAR-2017 13:08
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 28-Mar-2017 10:37 10airB.i Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.950	2.950	(0.528)	6977	0.10000	0.0399(a)
2	1,1-Difluoroethane	65	3.021	3.021	(0.540)	3095	0.10000	0.0866(Q)
3	Chlorodifluoromethane	67	3.034	3.034	(0.542)	1253	0.10000	0.0779(QM)
4	Propylene	41	3.037	3.037	(0.543)	4667	0.10000	0.0994
5	Dichlorodifluoromethane	85	3.066	3.066	(0.548)	17157	0.10000	0.0992
6	Chloromethane	50	3.159	3.159	(0.565)	6603	0.10000	0.0926
7	Dichlorotetrafluoroethane	85	3.159	3.159	(0.565)	12290	0.10000	0.0795
8	Vinyl chloride	62	3.230	3.230	(0.578)	4939	0.10000	0.0837
9	1,3-Butadiene	54	3.269	3.269	(0.584)	3369	0.10000	0.0756
10	Bromomethane	94	3.404	3.404	(0.609)	3463	0.10000	0.0734
11	Chloroethane	64	3.462	3.462	(0.619)	1879	0.10000	0.0753
12	Ethanol	45	3.552	3.552	(0.635)	10093	0.50000	0.484
13	Vinyl Bromide	106	3.571	3.571	(0.638)	3997	0.10000	0.0842
14	Isopentane	43	3.587	3.587	(0.641)	5214	0.10000	0.0879
15	Freon 123	83	3.594	3.594	(0.642)	8301	0.10000	142(A)
16	Trichlorofluoromethane	101	3.661	3.661	(0.655)	8791	0.10000	0.0726
17	Acrolein	56	3.684	3.684	(0.659)	4279	0.25000	0.225
18	Acetone	43	3.735	3.735	(0.668)	40412	0.50000	0.492
19	Isopropyl Alcohol	45	3.770	3.770	(0.674)	46105	0.50000	0.499
20	1,1-Dichloroethene	61	3.896	3.896	(0.697)	7070	0.10000	0.0829
21	Acrylonitrile	53	3.909	3.909	(0.699)	9832	0.25000	0.235
22	Freon 113	101	3.934	3.934	(0.703)	8535	0.10000	0.0878
23	Methyl Acetate	43	3.963	3.963	(0.709)	13465	0.10000	0.0997

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08610.D
Report Date: 28-Mar-2017 10:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.970	3.970	(0.710)	29980	0.25000	0.255(Q)
	25 Methylene chloride	49	3.983	3.983	(0.712)	30139	0.50000	0.479
	26 Allyl Chloride	76	3.999	3.999	(0.715)	4150	0.25000	0.250(Q)
	27 Carbon Disulfide	76	4.105	4.105	(0.734)	9803	0.10000	0.0883
	28 trans-1,2-dichloroethene	96	4.243	4.243	(0.759)	4332	0.10000	0.0911
	29 Methyl Tert Butyl Ether	73	4.317	4.317	(0.772)	29515	0.25000	0.233
	30 Vinyl Acetate	43	4.378	4.378	(0.783)	13383	0.10000	0.0969
	31 1,1-Dichloroethane	63	4.381	4.381	(0.783)	7842	0.10000	0.0848
$	32 Hexane-d14(S)	66	4.478	4.478	(0.801)	1167516	10.0000	9.90
	33 Methyl Ethyl Ketone	72	4.561	4.561	(0.815)	2823	0.10000	0.112(Q)
	34 n-Hexane	57	4.574	4.574	(0.818)	9148	0.10000	0.0984(QM)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.822)	17887	0.10000	0.0981
	36 Ethyl Acetate	43	4.729	4.729	(0.845)	10975	0.10000	0.0920
	37 cis-1,2-Dichloroethene	96	4.703	4.703	(0.841)	4594	0.10000	0.0881
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.863)	51001	0.25000	0.276
	39 Chloroform	83	4.812	4.812	(0.860)	10806	0.10000	0.105
	40 Tetrahydrofuran	42	5.015	5.015	(0.897)	6942	0.10000	0.0966
	41 1,1,1-Trichloroethane	97	5.208	5.208	(0.931)	12125	0.10000	0.0903
	42 1,2-Dichloroethane	62	5.214	5.214	(0.932)	9873	0.10000	0.0958
	43 Benzene	78	5.449	5.449	(0.974)	16764	0.10000	0.0925
	44 Carbon tetrachloride	117	5.468	5.468	(0.978)	11155	0.10000	0.0859
	45 Cyclohexane	56	5.481	5.481	(0.980)	10546	0.10000	0.101
	46 Tert Amyl Methyl Ether	73	5.597	5.597	(1.001)	45369	0.10000	0.0293(aQ)
*	47 1,4-Difluorobenzene	114	5.593	5.593	(1.000)	3142297	10.0000	
	48 2,2,4-Trimethylpentane	57	5.757	5.757	(1.029)	84453	0.25000	0.266
	49 Heptane	43	5.876	5.876	(1.051)	10359	0.10000	0.0906
	50 1,2-Dichloropropane	63	5.954	5.954	(1.064)	6869	0.10000	0.0964(Q)
	51 Trichloroethene	130	5.973	5.973	(1.068)	9327	0.10000	0.0981
	52 Methyl methacrylate	69	6.047	6.047	(1.081)	6221	0.10000	0.0961
	53 1,4-Dioxane	88	6.092	6.092	(1.089)	4169	0.10000	0.0942
	54 Bromodichloromethane	83	6.069	6.069	(1.085)	10619	0.10000	0.0841
	55 Methylcyclohexane	98	6.413	6.413	(1.147)	4810	0.10000	0.0897
	56 Methyl Isobutyl Ketone	43	6.539	6.539	(1.169)	37837	0.25000	0.244
	57 cis-1,3-Dichloropropene	75	6.577	6.577	(1.176)	9200	0.10000	0.0898
	58 trans-1,3-Dichloropropene	75	6.979	6.979	(1.248)	6584	0.10000	0.191
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	2483698	10.0000	9.38
	60 1,1,2-Trichloroethane	97	7.137	7.137	(1.276)	7529	0.10000	0.0996
	61 Toluene	91	7.140	7.140	(1.276)	20586	0.10000	0.0933
	62 Methyl Butyl Ketone	43	7.384	7.384	(0.855)	31324	0.25000	0.256
	63 n-Octane	43	7.577	7.577	(0.877)	14869	0.10000	0.109
	64 Dibromochloromethane	129	7.671	7.671	(0.888)	11378	0.10000	0.0944
	65 1,2-Dibromoethane	107	7.899	7.899	(0.915)	11070	0.10000	0.102
	66 Tetrachloroethene	166	7.976	7.976	(0.924)	12604	0.10000	0.111
*	67 Chlorobenzene - d5	117	8.635	8.635	(1.000)	1741477	10.0000	
	68 Chlorobenzene	112	8.674	8.674	(1.004)	17479	0.10000	0.106
	69 Ethyl Benzene	91	8.931	8.931	(1.034)	26530	0.10000	0.104
	70 m&p-Xylene	91	9.069	9.069	(1.050)	40370	0.20000	0.207
	71 n-Nonane	43	9.458	9.458	(1.095)	12829	0.10000	0.106
	72 Bromoform	173	9.471	9.471	(1.097)	7948	0.10000	0.0854
	73 Styrene	104	9.497	9.497	(1.100)	14210	0.10000	0.0992
	74 o-Xylene	91	9.574	9.574	(1.109)	20665	0.10000	0.103
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	10681	0.10000	0.0983
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	27865	0.10000	0.103
	77 N-Propylbenzene	91	10.738	10.738	(1.244)	25300	0.10000	0.0888

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08610.D
Report Date: 28-Mar-2017 10:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.902	10.902	(1.262)	22863	0.10000	0.0944(M)
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.274)	21124	0.10000	0.0993
80	n-Decane	57	11.371	11.371	(2.033)	11021	0.10000	0.0810
81	Tert-Butyl Benzene	119	11.494	11.494	(1.331)	23618	0.10000	0.104
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.333)	18024	0.10000	0.0954
83	1,3-Dichlorobenzene	146	11.789	11.789	(1.365)	9141	0.10000	0.205
84	Sec- Butylbenzene	105	11.796	11.796	(1.366)	26096	0.10000	0.0973
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.847	(1.372)	671698	10.0000	8.12
86	Benzyl Chloride	91	11.857	11.857	(1.373)	6025	0.10000	0.249(M)
87	1,4-Dichlorobenzene	146	11.879	11.879	(1.376)	7969	0.10000	0.0751
88	p-Isopropyltoluene	119	11.982	11.982	(1.388)	20250	0.10000	0.0898
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	16138	0.10000	0.0887
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.422)	8072	0.10000	0.0961
91	N-Butylbenzene	91	12.461	12.461	(1.443)	10844	0.10000	0.0215(a)
92	1,2-Dibromo-3-Chloropropane	157	12.902	12.902	(1.494)	1539	0.10000	0.274(Q)
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.625)	491	0.10000	0.348(M)
94	Naphthalene	128	14.169	14.169	(1.641)	2014	0.10000	0.354(M)
95	Hexachlorobutadiene	225	14.410	14.410	(1.669)	3395	0.10000	0.0905

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08610.D
Report Date: 28-Mar-2017 10:37

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08610.D
Lab Smp Id: cal1
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info:

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

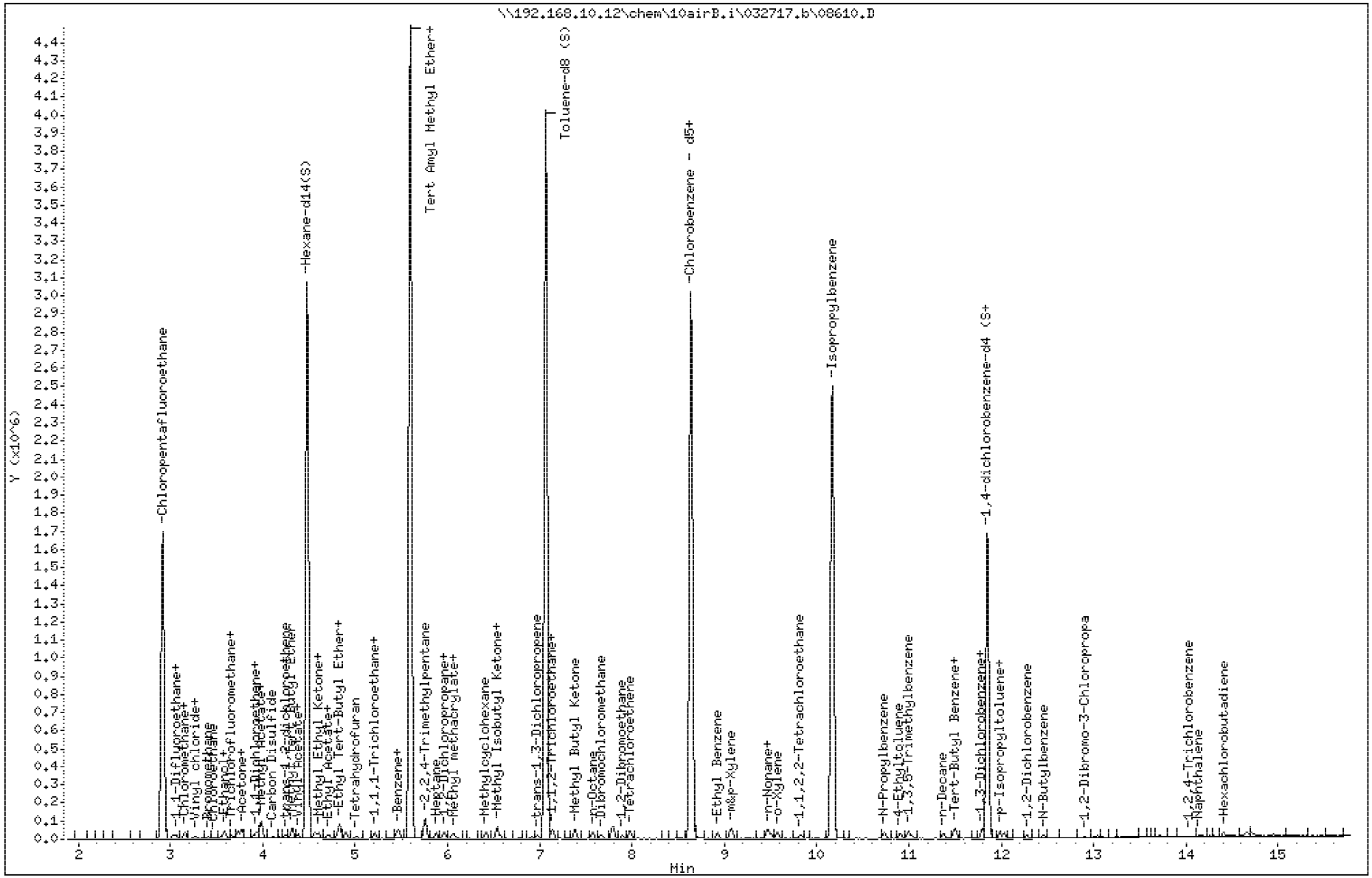
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	3142297	10.97
67 Chlorobenzene - d	1804482	1082689	2526275	1741477	-3.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.29
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

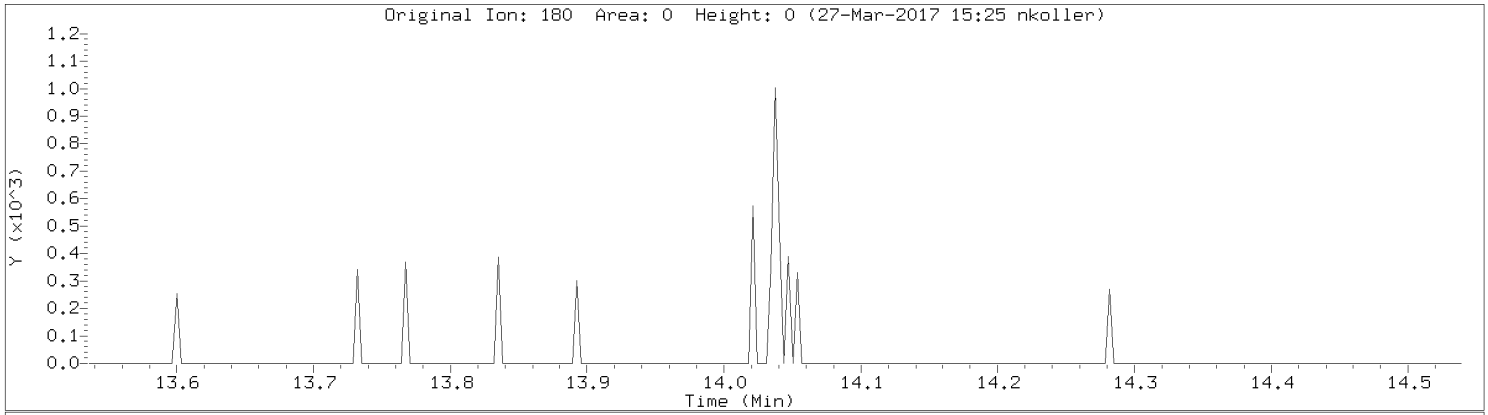
Data File: \\192.168.10.12\chem\10airB.i\032717.b\08610.D
Date : 27-MAR-2017 13:08
Client ID:
Sample Info:

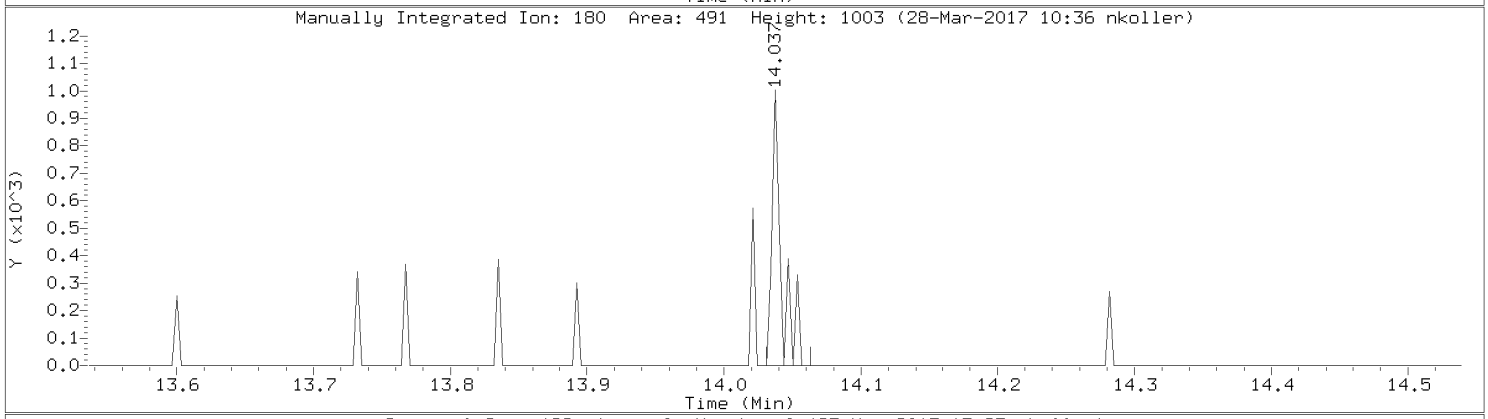
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

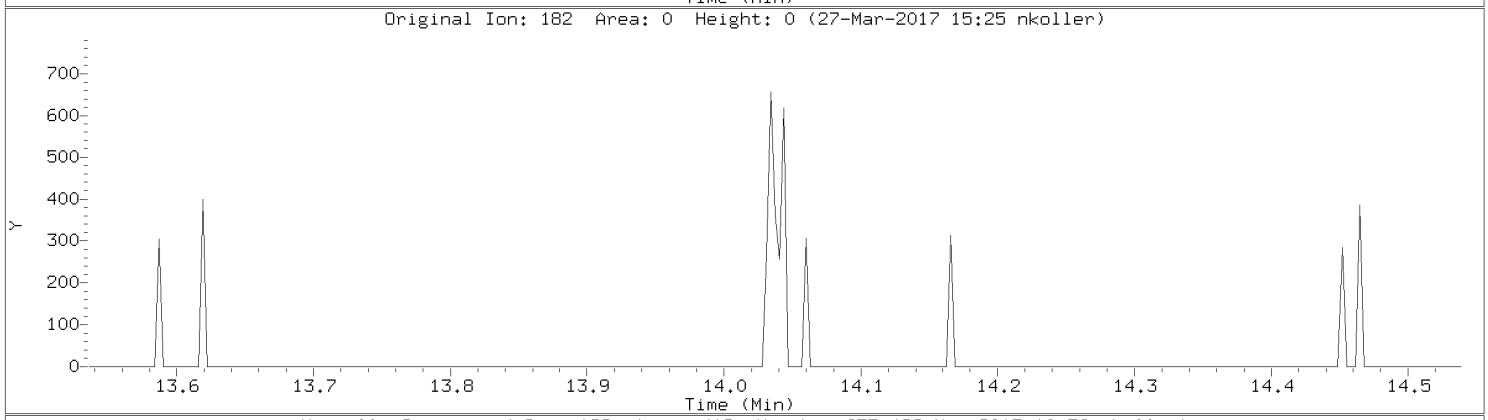


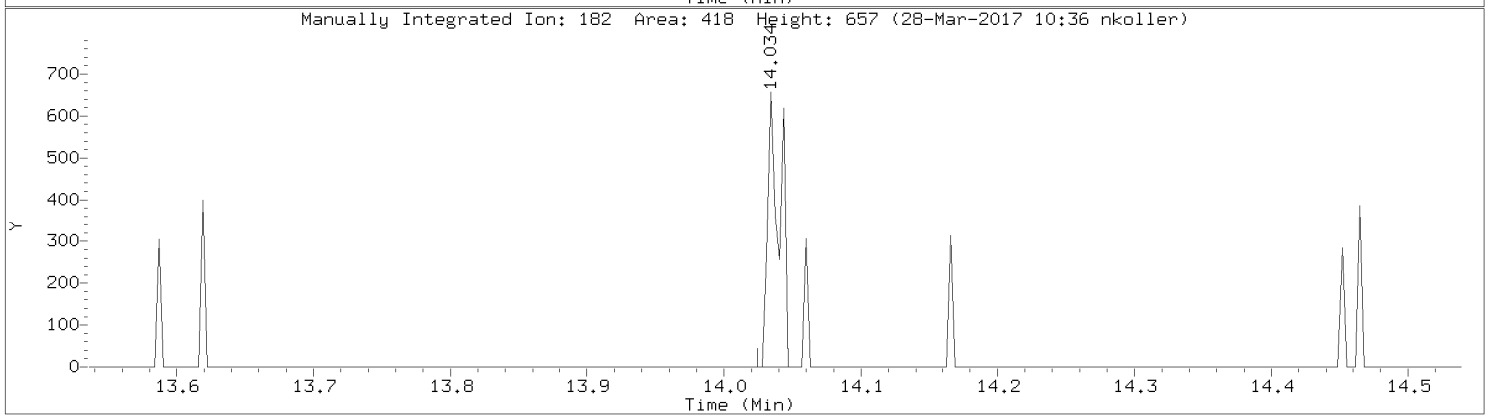
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08610.D
Injection Date: 27-MAR-2017 13:08
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

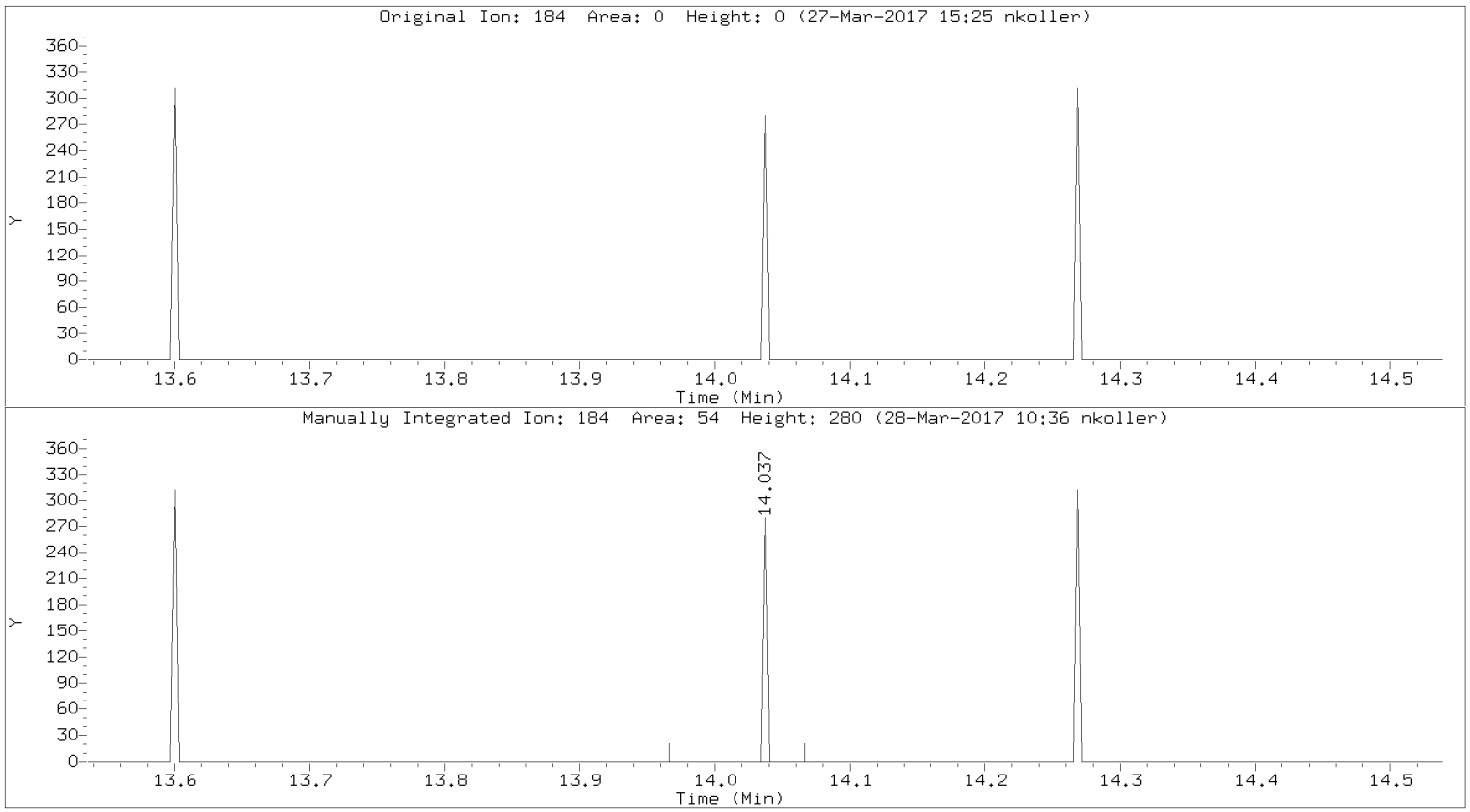






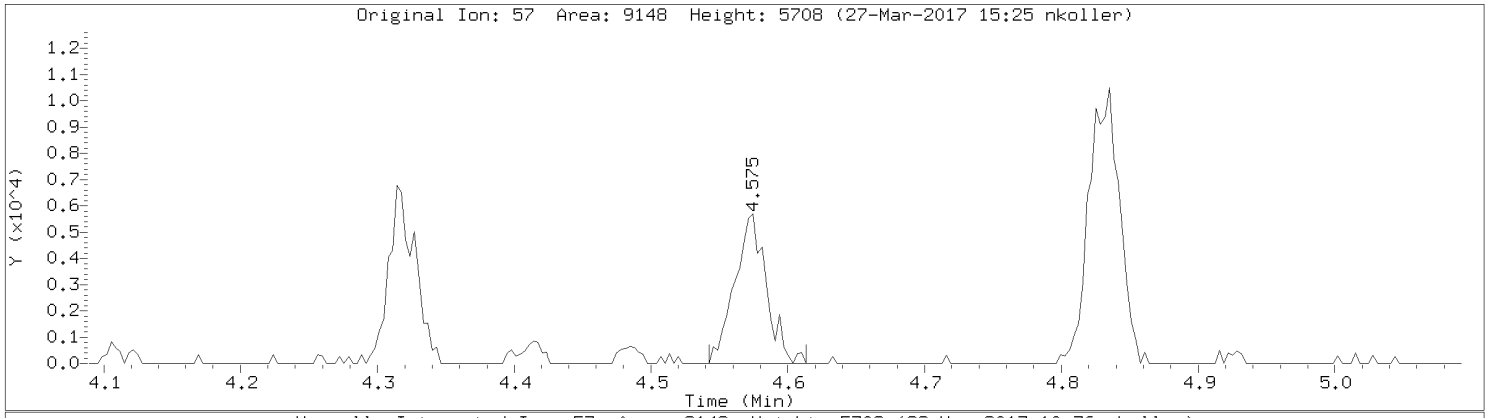


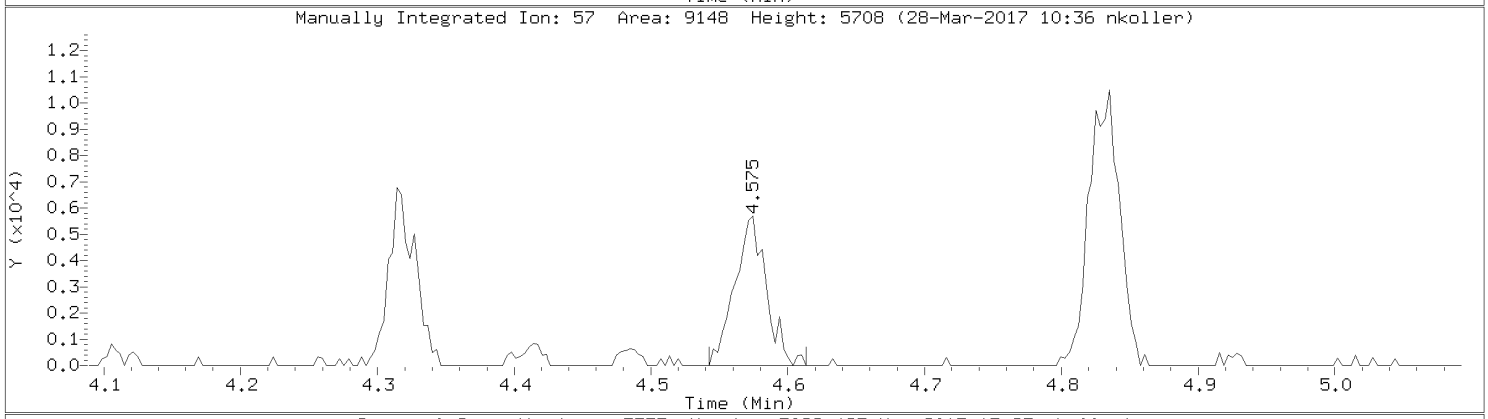
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08610.D
Injection Date: 27-MAR-2017 13:08
Instrument: 10airB.i
Lab Sample ID: cal1

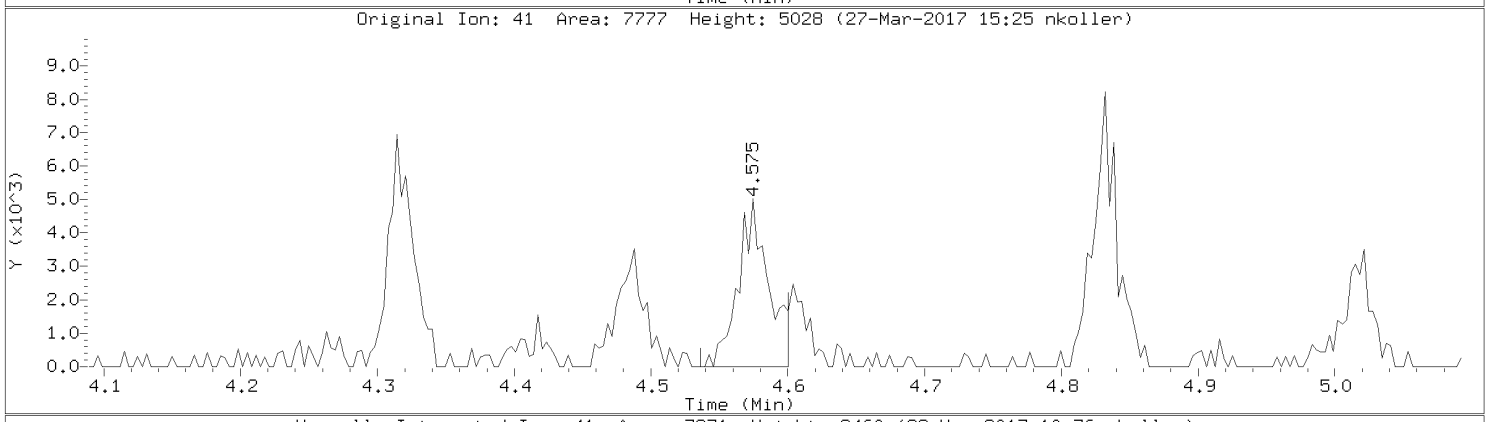


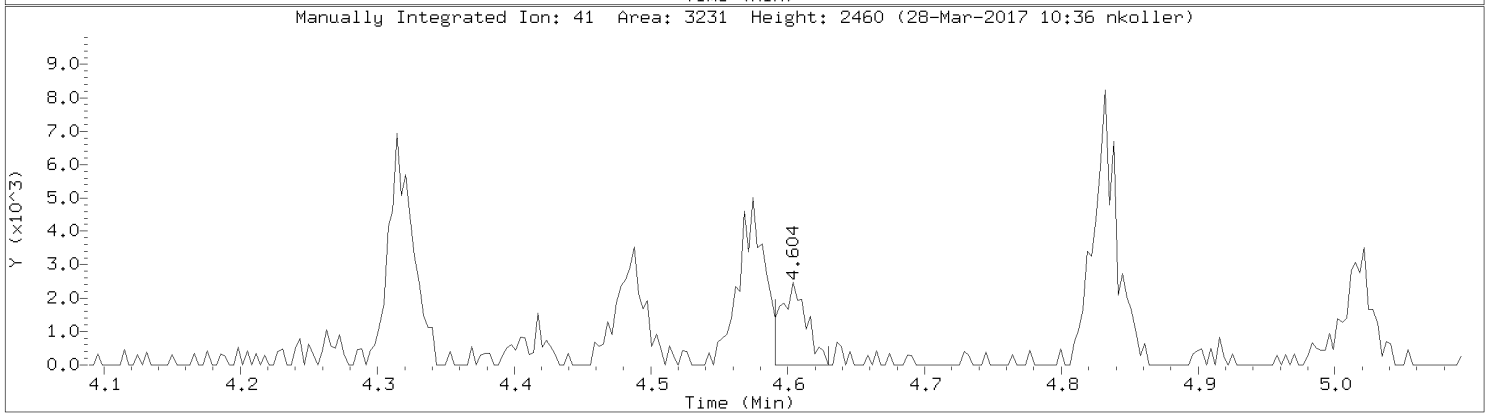
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08610.D
Injection Date: 27-MAR-2017 13:08
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: n-Hexane
CAS Number: 110-54-3

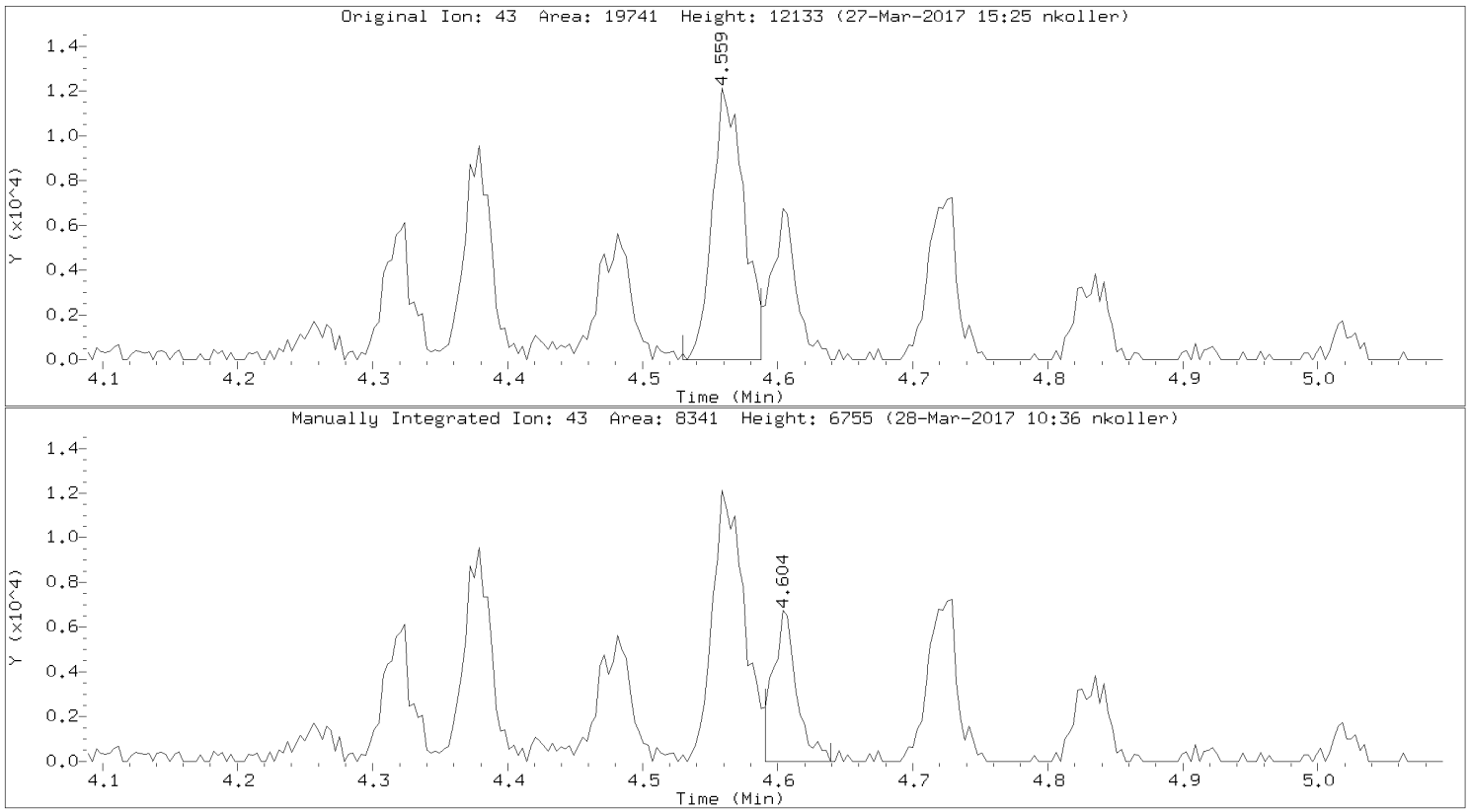






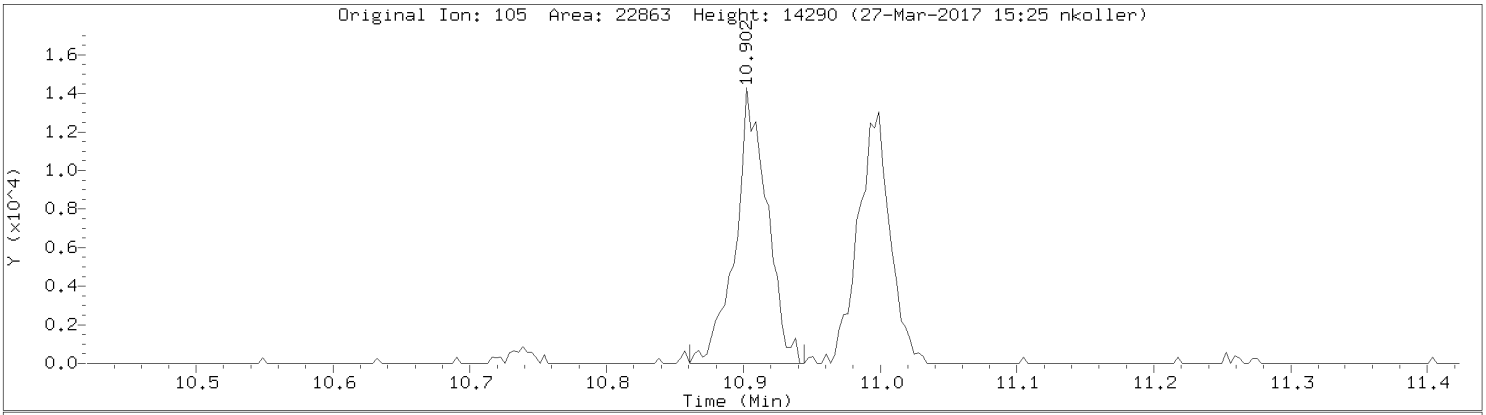


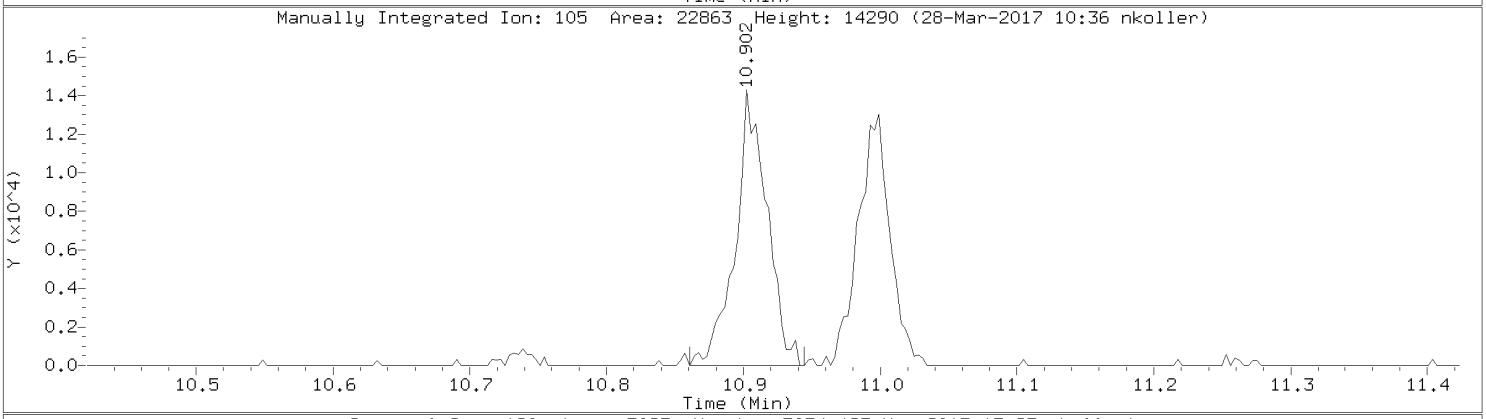
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08610.D
Injection Date: 27-MAR-2017 13:08
Instrument: 10airB.i
Lab Sample ID: cal1

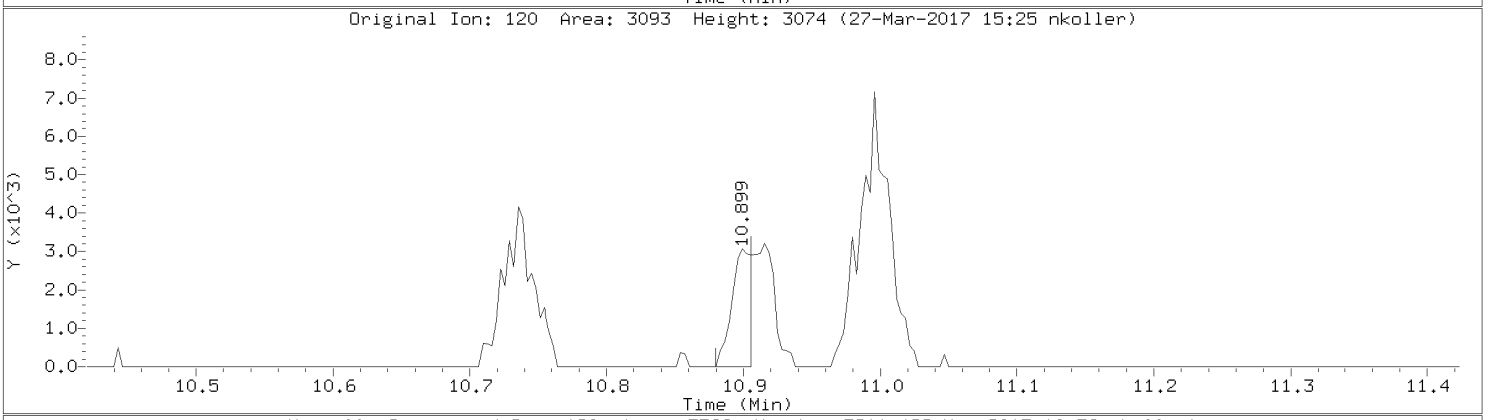


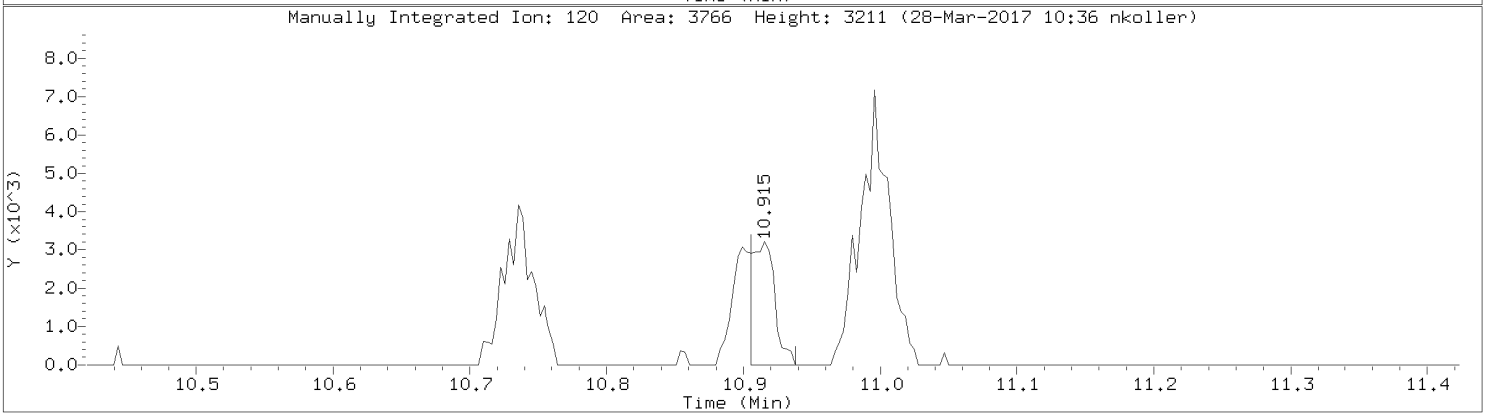
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08610.D
Injection Date: 27-MAR-2017 13:08
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

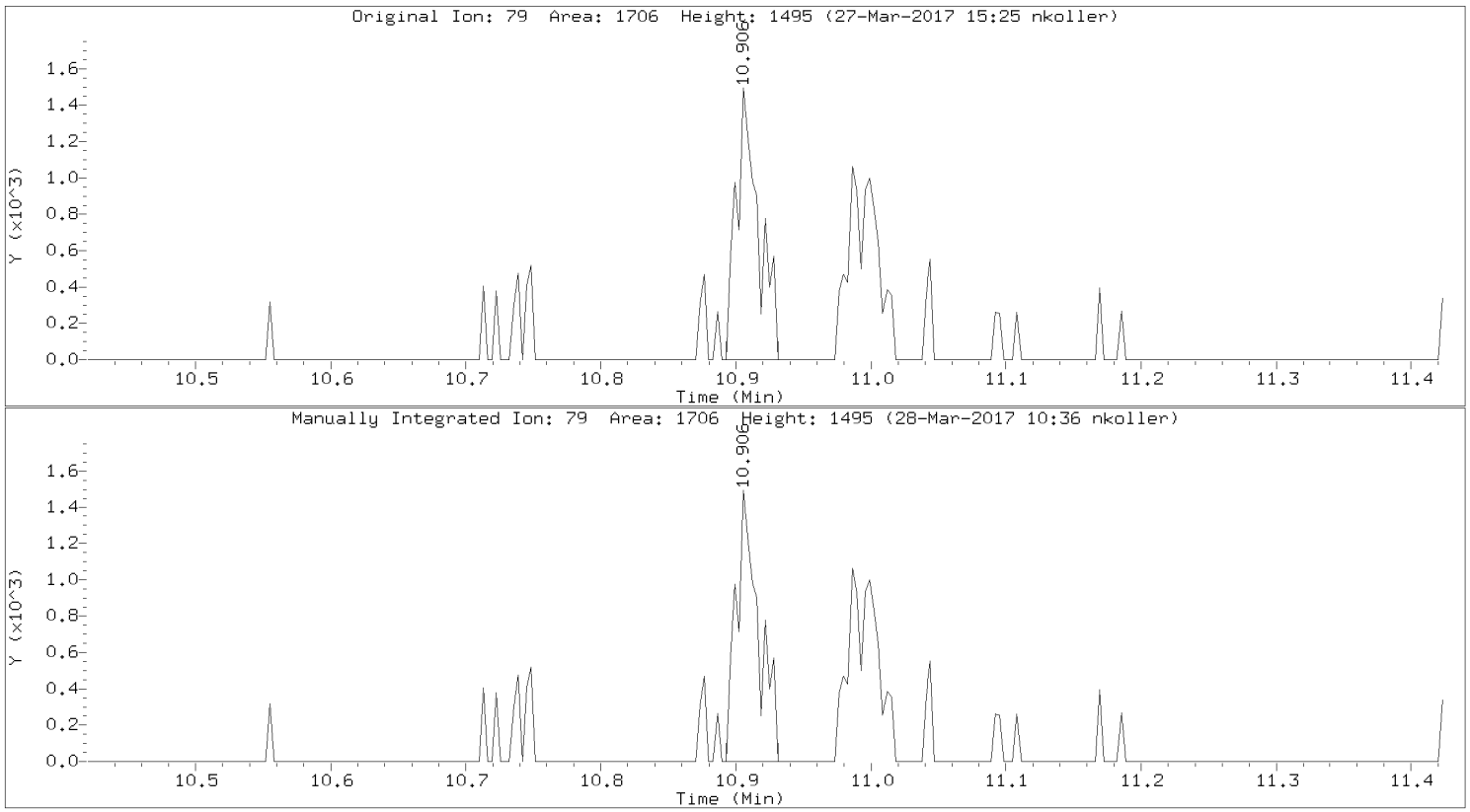






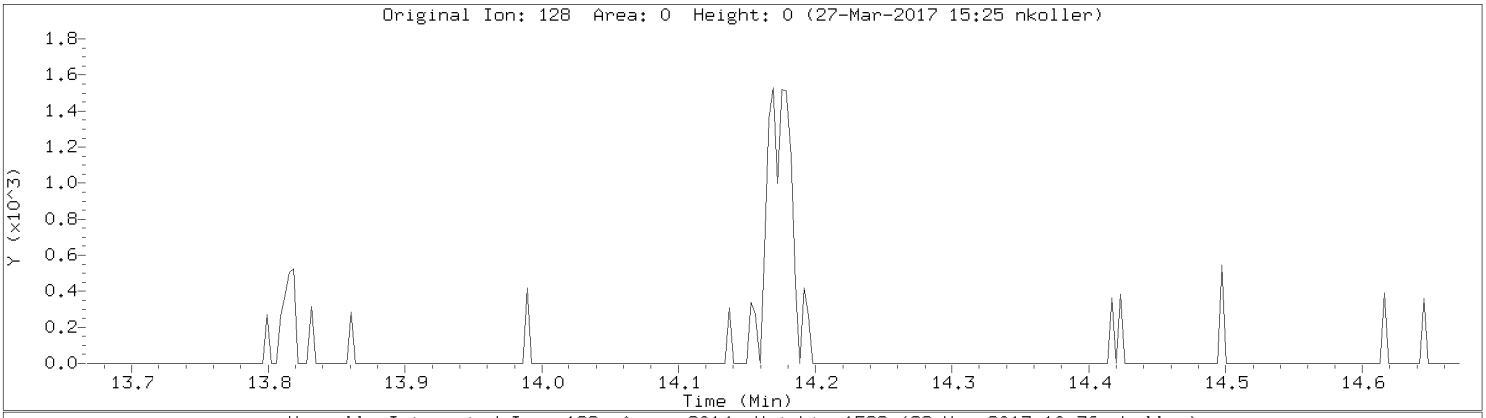


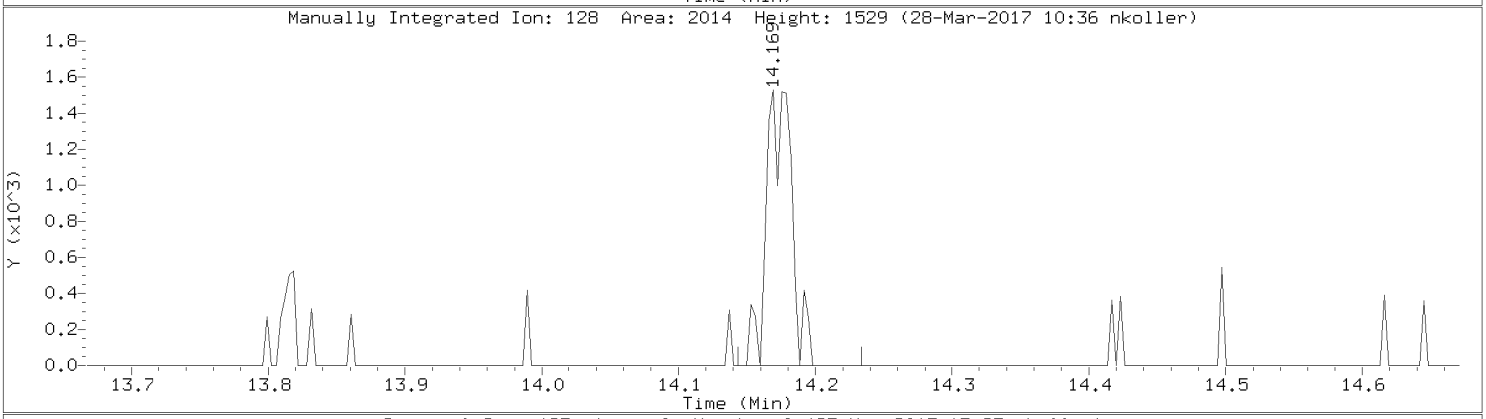
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08610.D
Injection Date: 27-MAR-2017 13:08
Instrument: 10airB.i
Lab Sample ID: cal1

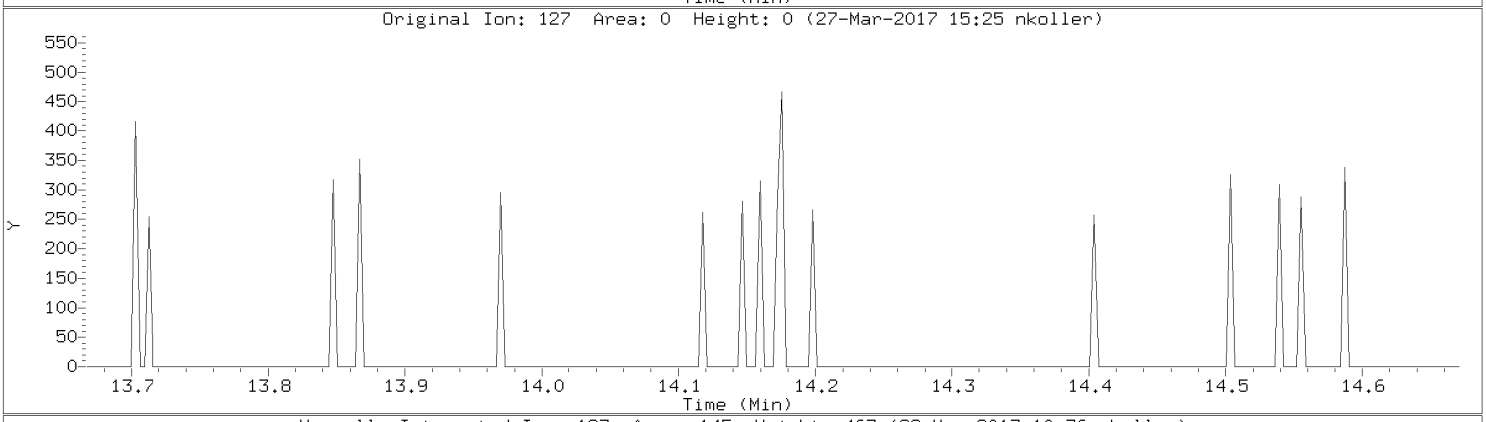


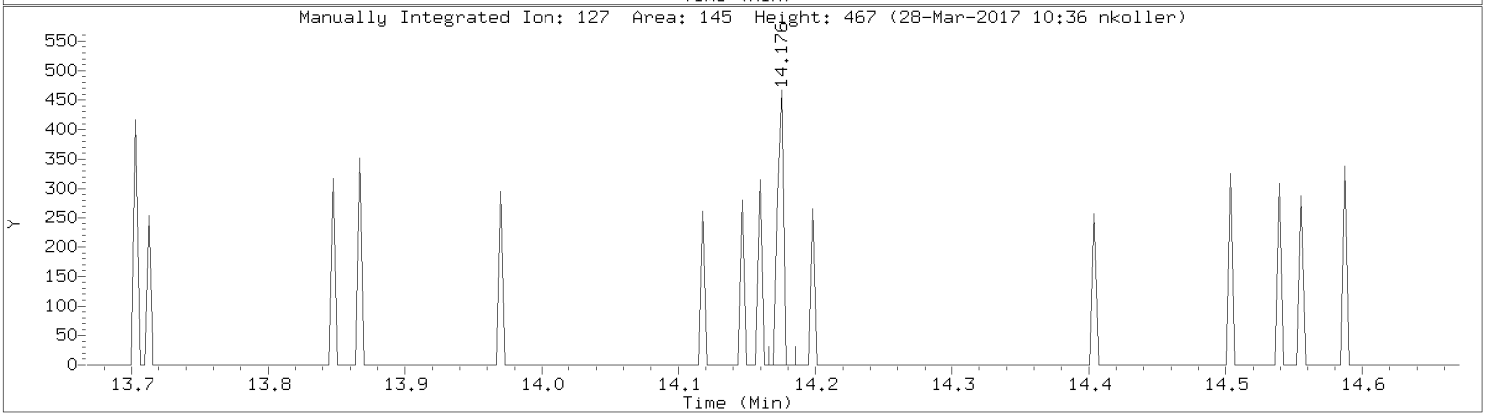
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08610.D
Injection Date: 27-MAR-2017 13:08
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Naphthalene
CAS Number: 91-20-3



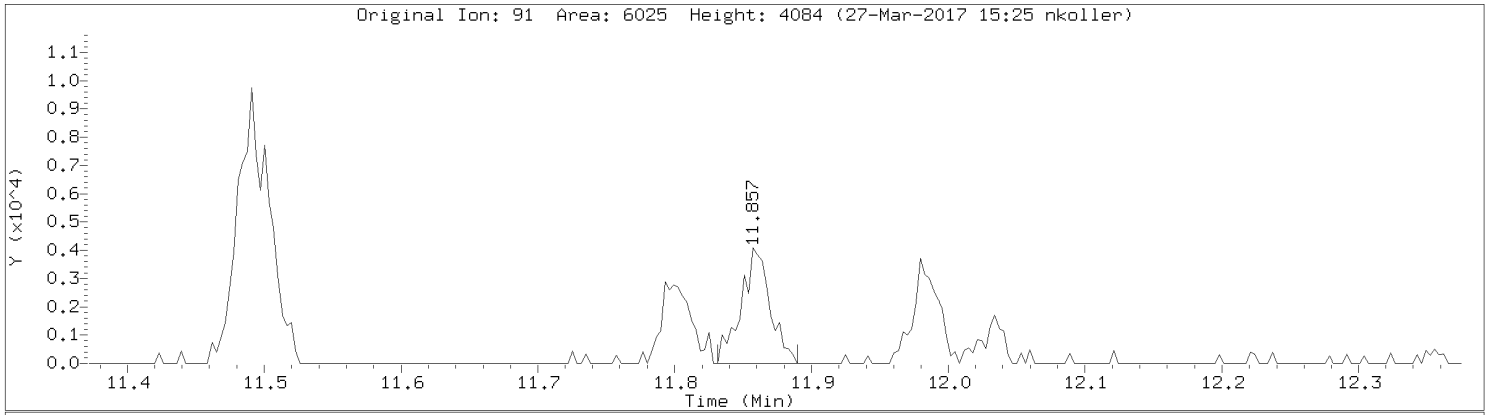


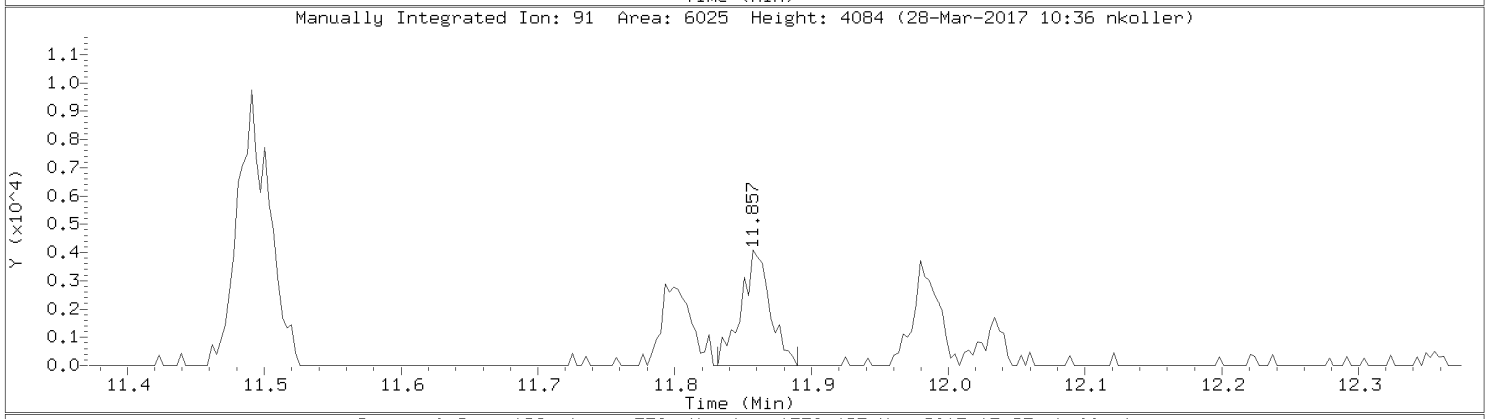


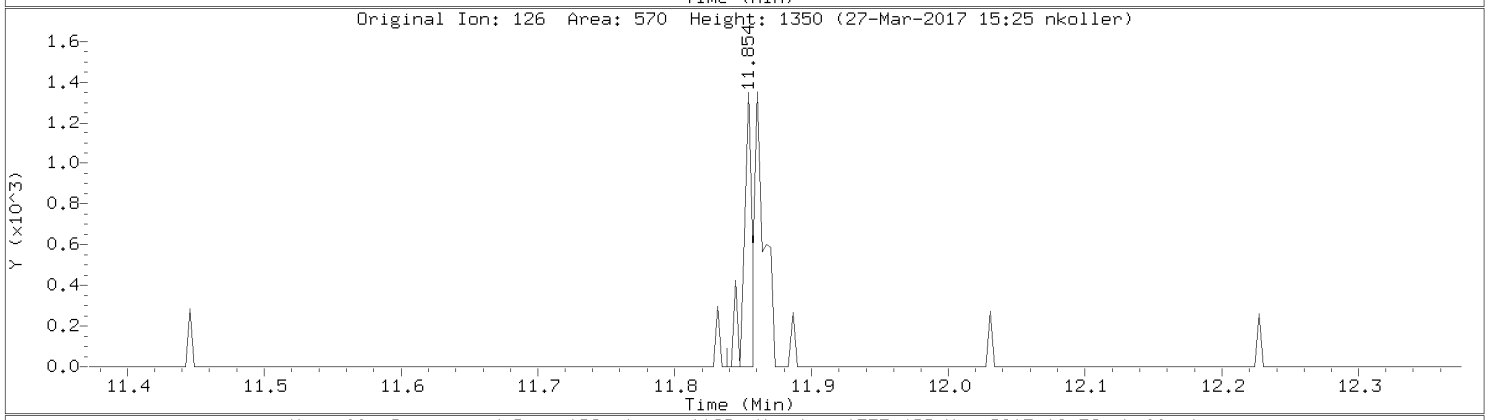


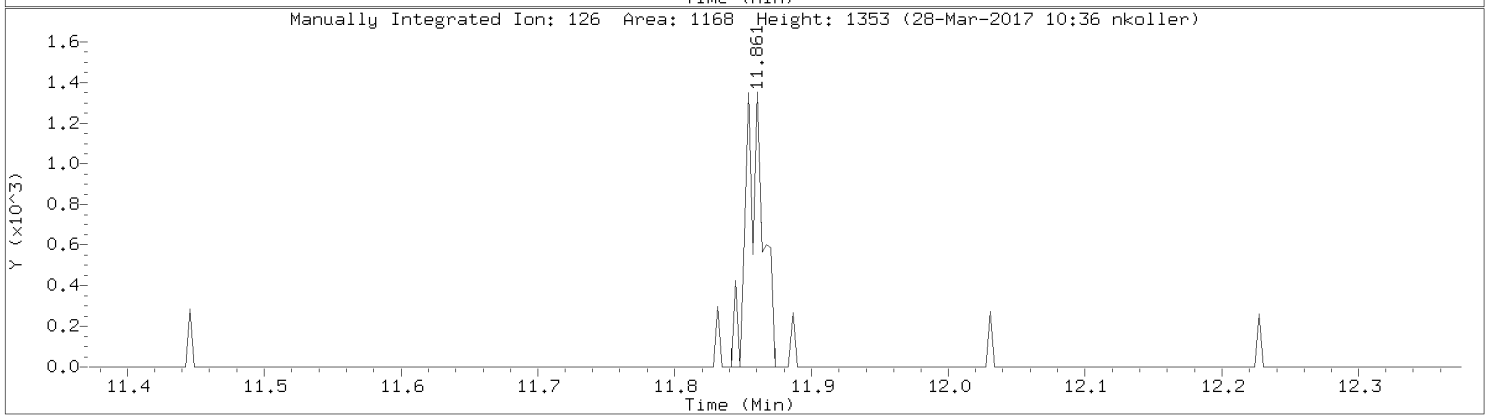
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08610.D
Injection Date: 27-MAR-2017 13:08
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Benzyl Chloride
CAS Number: 100-44-7



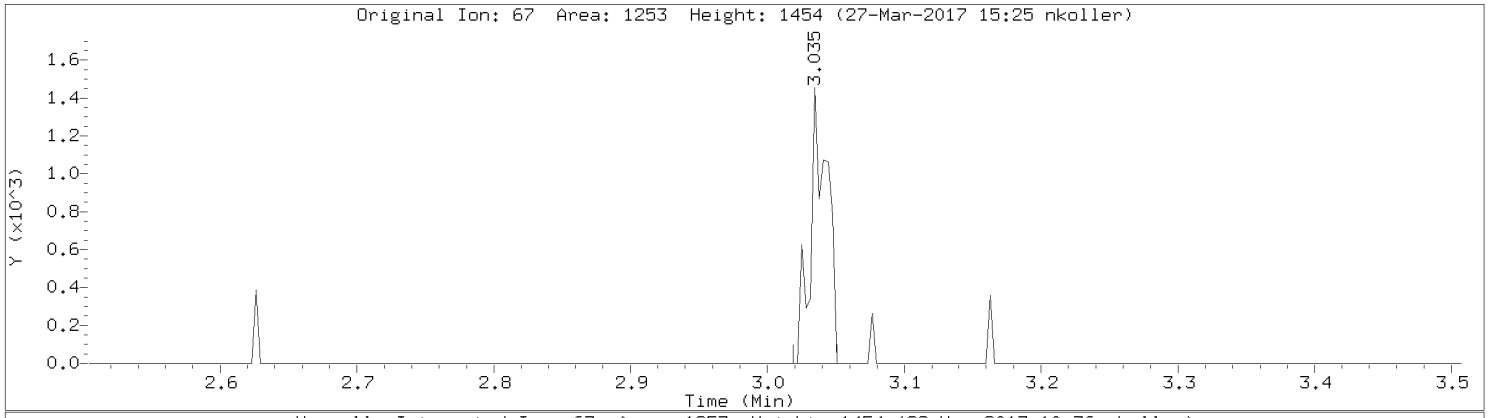


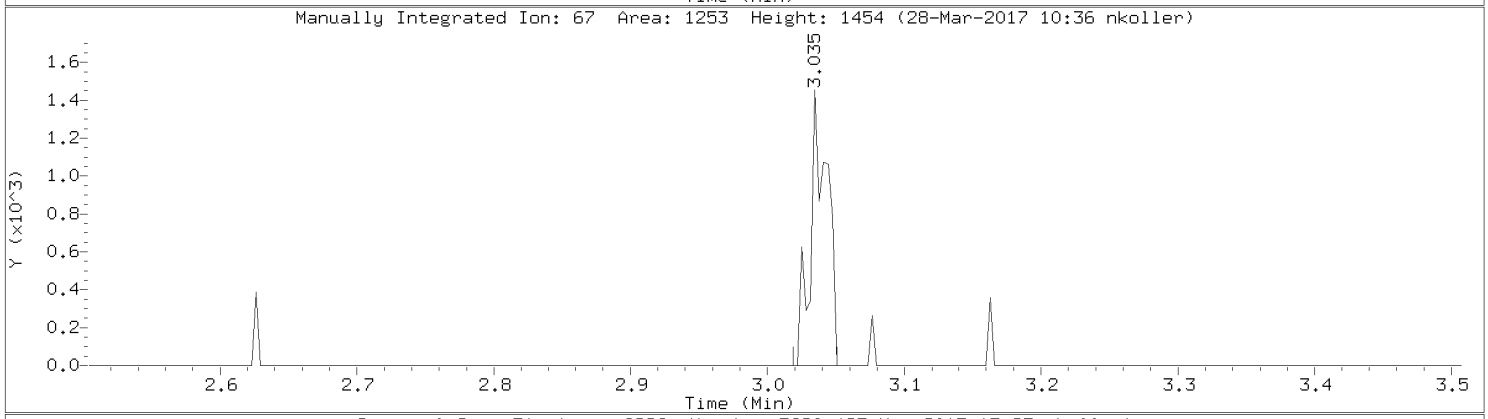


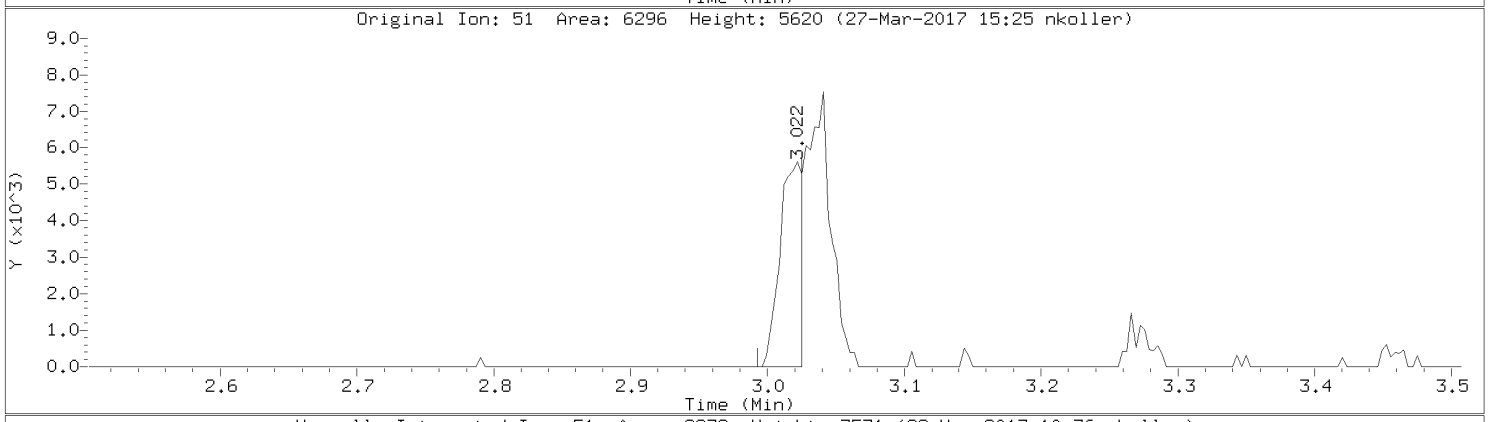


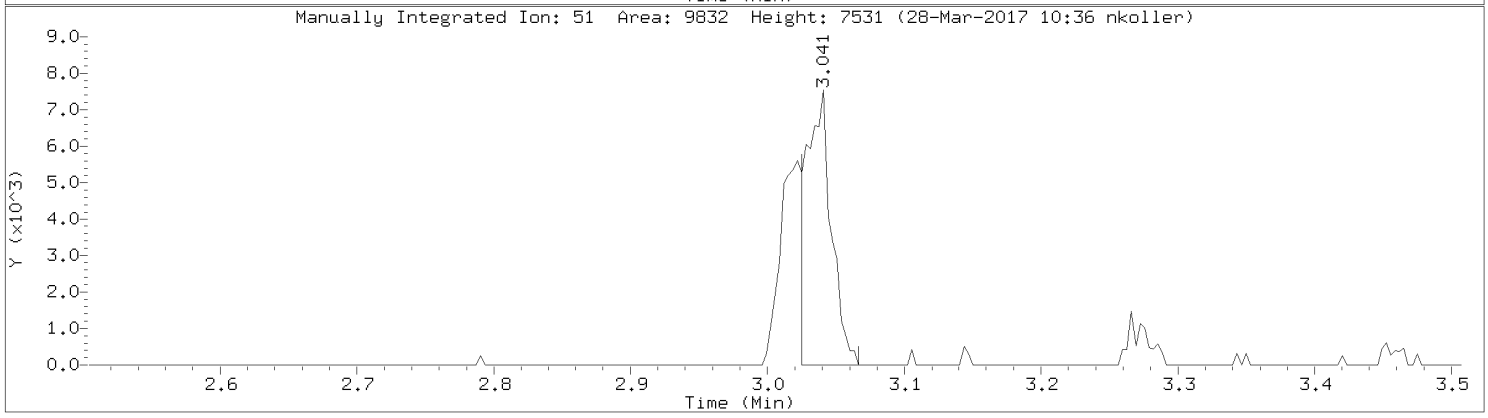
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08610.D
Injection Date: 27-MAR-2017 13:08
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

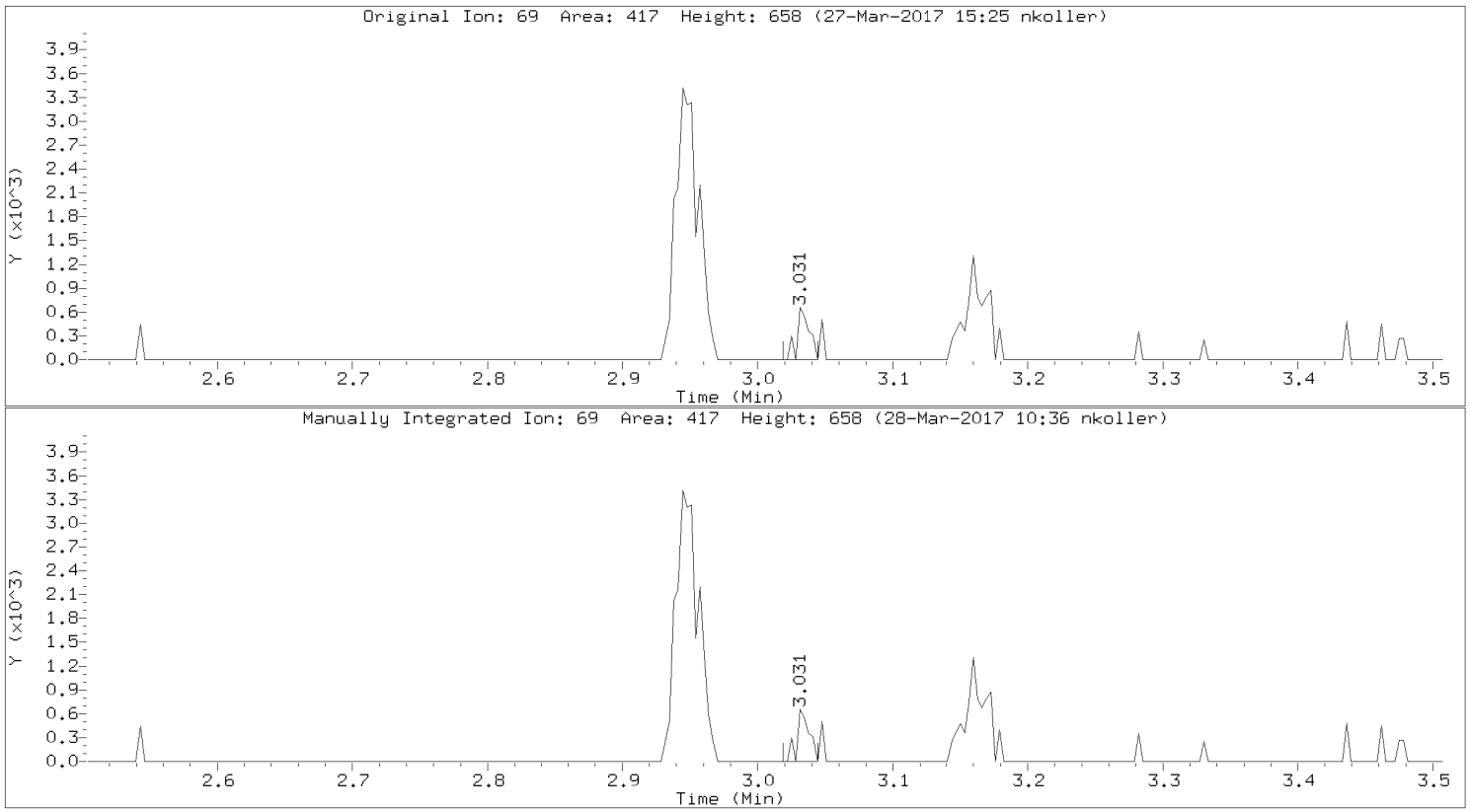








Data File: \\192.168.10.12\chem\10airB.i\032717.b/08610.D
Injection Date: 27-MAR-2017 13:08
Instrument: 10airB.i
Lab Sample ID: cal1



Data File: \\192.168.10.12\chem\10airB.i\032717.b\08611.D
Report Date: 28-Mar-2017 10:37

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08611.D
Lab Smp Id: cal2
Inj Date : 27-MAR-2017 13:36
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 28-Mar-2017 10:37 10airB.i Quant Type: ISTD
Cal Date : 27-MAR-2017 13:08 Cal File: 08610.D
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.947	(0.527)	13972	0.20000	0.226
2	1,1-Difluoroethane	65	3.008	3.008	(0.538)	6573	0.20000	0.204(QM)
3	Chlorodifluoromethane	67	3.028	3.028	(0.541)	3135	0.20000	0.216(QM)
4	Propylene	41	3.034	3.034	(0.542)	8973	0.20000	0.212
5	Dichlorodifluoromethane	85	3.060	3.060	(0.547)	35757	0.20000	0.229
6	Chloromethane	50	3.153	3.153	(0.564)	12593	0.20000	0.195
7	Dichlorotetrafluoroethane	85	3.160	3.160	(0.565)	29254	0.20000	0.210
8	Vinyl chloride	62	3.233	3.233	(0.578)	10912	0.20000	0.205
9	1,3-Butadiene	54	3.272	3.272	(0.585)	7708	0.20000	0.192
10	Bromomethane	94	3.410	3.410	(0.610)	8618	0.20000	0.202
11	Chloroethane	64	3.455	3.455	(0.618)	4195	0.20000	0.186
12	Ethanol	45	3.542	3.542	(0.633)	18496	1.00000	0.983
13	Vinyl Bromide	106	3.571	3.571	(0.638)	8864	0.20000	0.207
14	Isopentane	43	3.584	3.584	(0.641)	11864	0.20000	0.222
15	Freon 123	83	3.587	3.587	(0.641)	20163	0.20000	0.149
16	Trichlorofluoromethane	101	3.661	3.661	(0.655)	22686	0.20000	0.207
17	Acrolein	56	3.671	3.671	(0.656)	7912	0.50000	0.460
18	Acetone	43	3.725	3.725	(0.666)	78461	1.00000	1.06
19	Isopropyl Alcohol	45	3.764	3.764	(0.673)	90151	1.00000	1.08
20	1,1-Dichloroethene	61	3.889	3.889	(0.695)	16225	0.20000	0.211
21	Acrylonitrile	53	3.905	3.905	(0.698)	19214	0.50000	0.508
22	Freon 113	101	3.931	3.931	(0.703)	19679	0.20000	0.224
23	Methyl Acetate	43	3.954	3.954	(0.707)	26060	0.20000	0.214

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08611.D
Report Date: 28-Mar-2017 10:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.963	3.963	(0.709)	57175	0.50000	0.539(Q)
	25 Methylene chloride	49	3.979	3.979	(0.711)	63836	1.00000	1.12
	26 Allyl Chloride	76	3.992	3.992	(0.714)	8049	0.50000	0.537(Q)
	27 Carbon Disulfide	76	4.108	4.108	(0.734)	20130	0.20000	0.201
	28 trans-1,2-dichloroethene	96	4.246	4.246	(0.759)	9125	0.20000	0.213
	29 Methyl Tert Butyl Ether	73	4.314	4.314	(0.771)	59875	0.50000	0.523
	30 Vinyl Acetate	43	4.372	4.372	(0.782)	23367	0.20000	0.187
	31 1,1-Dichloroethane	63	4.378	4.378	(0.783)	16469	0.20000	0.197
$	32 Hexane-d14(S)	66	4.478	4.478	(0.801)	1065472	10.0000	10.0
	33 Methyl Ethyl Ketone	72	4.561	4.561	(0.815)	5075	0.20000	0.223
	34 n-Hexane	57	4.574	4.574	(0.818)	17780	0.20000	0.212(M)
	35 Di-isopropyl Ether	45	4.597	4.597	(0.822)	32597	0.20000	0.198
	36 Ethyl Acetate	43	4.713	4.713	(0.843)	22456	0.20000	0.208
	37 cis-1,2-Dichloroethene	96	4.700	4.700	(0.840)	8982	0.20000	0.191
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.863)	89273	0.50000	0.534
	39 Chloroform	83	4.809	4.809	(0.860)	18332	0.20000	0.196
	40 Tetrahydrofuran	42	5.012	5.012	(0.896)	13456	0.20000	0.207
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.932)	26035	0.20000	0.215
	42 1,2-Dichloroethane	62	5.211	5.211	(0.932)	18744	0.20000	0.201
	43 Benzene	78	5.449	5.449	(0.974)	34867	0.20000	0.213
	44 Carbon tetrachloride	117	5.465	5.465	(0.977)	23442	0.20000	0.200
	45 Cyclohexane	56	5.478	5.478	(0.979)	20629	0.20000	0.219
	46 Tert Amyl Methyl Ether	73	5.606	5.606	(1.002)	58362	0.20000	0.138
*	47 1,4-Difluorobenzene	114	5.594	5.594	(1.000)	2837410	10.0000	
	48 2,2,4-Trimethylpentane	57	5.757	5.757	(1.029)	163284	0.50000	0.569
	49 Heptane	43	5.870	5.870	(1.049)	20353	0.20000	0.197
	50 1,2-Dichloropropane	63	5.954	5.954	(1.064)	12855	0.20000	0.200(Q)
	51 Trichloroethene	130	5.966	5.966	(1.067)	16915	0.20000	0.197
	52 Methyl methacrylate	69	6.047	6.047	(1.081)	12821	0.20000	0.219
	53 1,4-Dioxane	88	6.082	6.082	(1.087)	8267	0.20000	0.207
	54 Bromodichloromethane	83	6.069	6.069	(1.085)	21644	0.20000	0.190
	55 Methylcyclohexane	98	6.413	6.413	(1.147)	9830	0.20000	0.203
	56 Methyl Isobutyl Ketone	43	6.539	6.539	(1.169)	73258	0.50000	0.522
	57 cis-1,3-Dichloropropene	75	6.574	6.574	(1.175)	17365	0.20000	0.188
	58 trans-1,3-Dichloropropene	75	6.979	6.979	(1.248)	15064	0.20000	0.288
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	2298933	10.0000	9.61
	60 1,1,2-Trichloroethane	97	7.134	7.134	(1.275)	14575	0.20000	0.214
	61 Toluene	91	7.143	7.143	(1.277)	40248	0.20000	0.202
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.854)	59421	0.50000	0.524
	63 n-Octane	43	7.577	7.577	(0.877)	26300	0.20000	0.208
	64 Dibromochloromethane	129	7.667	7.667	(0.888)	20583	0.20000	0.184
	65 1,2-Dibromoethane	107	7.899	7.899	(0.915)	19266	0.20000	0.192
	66 Tetrachloroethene	166	7.979	7.979	(0.924)	23210	0.20000	0.220
*	67 Chlorobenzene - d5	117	8.635	8.635	(1.000)	1612760	10.0000	
	68 Chlorobenzene	112	8.680	8.680	(1.005)	31080	0.20000	0.203
	69 Ethyl Benzene	91	8.928	8.928	(1.034)	45973	0.20000	0.194
	70 m&p-Xylene	91	9.072	9.072	(1.051)	78037	0.40000	0.432
	71 n-Nonane	43	9.462	9.462	(1.096)	23977	0.20000	0.213
	72 Bromoform	173	9.474	9.474	(1.097)	16117	0.20000	0.187
	73 Styrene	104	9.497	9.497	(1.100)	26178	0.20000	0.197(H)
	74 o-Xylene	91	9.571	9.571	(1.108)	37551	0.20000	0.203
	75 1,1,2,2-Tetrachloroethane	83	9.825	9.825	(1.138)	19548	0.20000	0.194
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	53461	0.20000	0.213
	77 N-Propylbenzene	91	10.738	10.738	(1.244)	50618	0.20000	0.192

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08611.D
Report Date: 28-Mar-2017 10:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	10.908	10.908	(1.263)	41762	0.20000	0.186
79	1,3,5-Trimethylbenzene	105	10.995	10.995	(1.273)	39519	0.20000	0.201
80	n-Decane	57	11.371	11.371	(2.033)	22962	0.20000	0.187
81	Tert-Butyl Benzene	119	11.490	11.490	(1.331)	45892	0.20000	0.218
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.333)	36595	0.20000	0.209
83	1,3-Dichlorobenzene	146	11.793	11.793	(1.366)	17436	0.20000	0.273
84	Sec- Butylbenzene	105	11.802	11.802	(1.367)	50229	0.20000	0.202
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.850	(1.372)	665373	10.0000	8.69
86	Benzyl Chloride	91	11.857	11.857	(1.373)	10633	0.20000	0.289
87	1,4-Dichlorobenzene	146	11.879	11.879	(1.376)	16606	0.20000	0.155
88	p-Isopropyltoluene	119	11.982	11.982	(1.388)	41026	0.20000	0.196
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	34967	0.20000	0.208
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.422)	15181	0.20000	0.167
91	N-Butylbenzene	91	12.458	12.458	(1.443)	22072	0.20000	0.0932
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.495)	3237	0.20000	0.321
93	1,2,4-Trichlorobenzene	180	14.047	14.047	(1.627)	845	0.20000	0.365(M)
94	Naphthalene	128	14.178	14.178	(1.642)	3746	0.20000	0.383
95	Hexachlorobutadiene	225	14.410	14.410	(1.669)	6287	0.20000	0.181(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08611.D
Report Date: 28-Mar-2017 10:37

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08611.D
Lab Smp Id: cal2
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info:

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

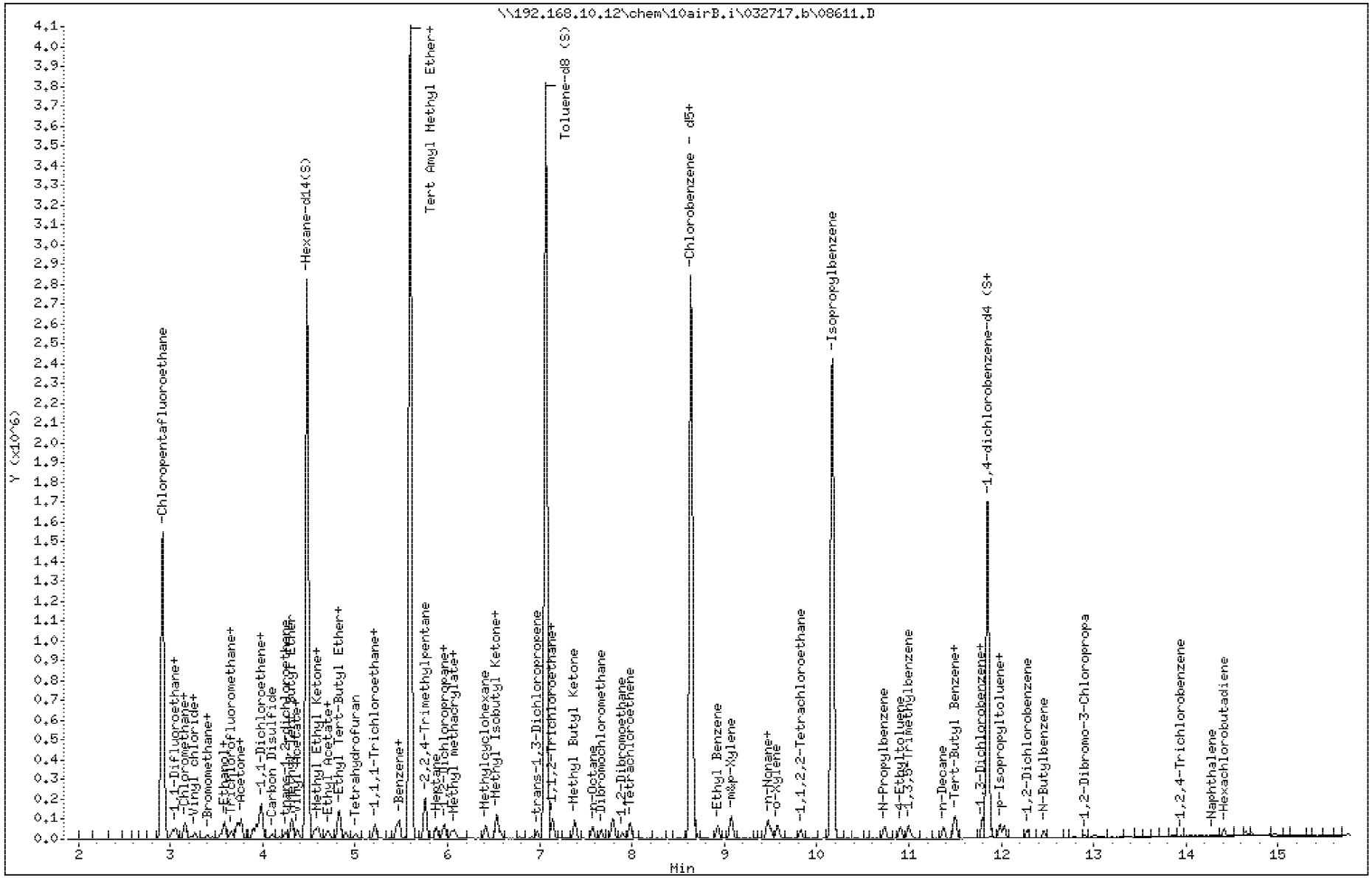
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2837410	0.20
67 Chlorobenzene - d	1804482	1082689	2526275	1612760	-10.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.29
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

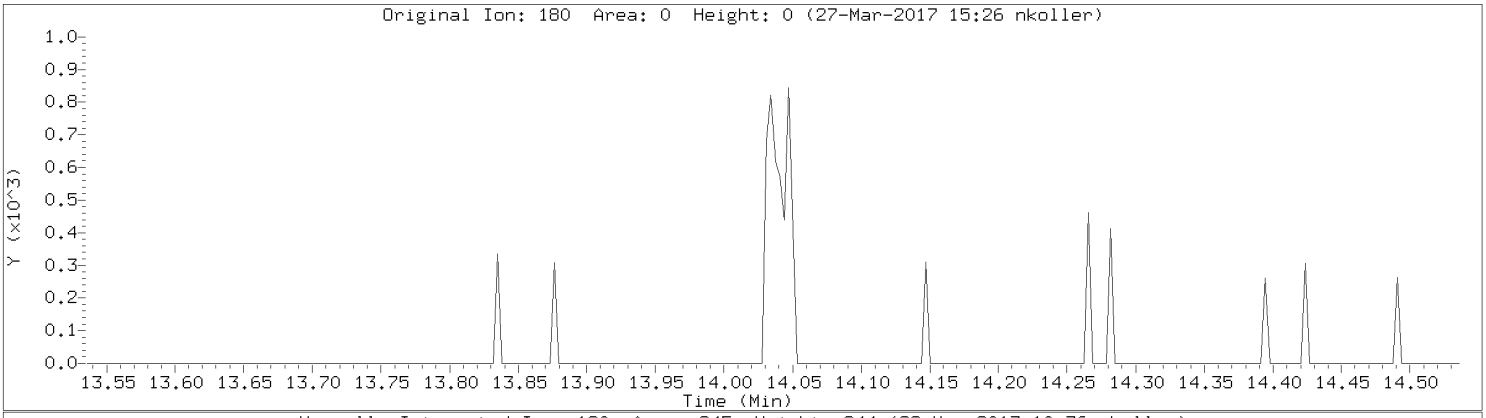
Data File: \\192.168.10.12\chem\10airB.i\032717.b\08611.D
Date : 27-MAR-2017 13:36
Client ID:
Sample Info:

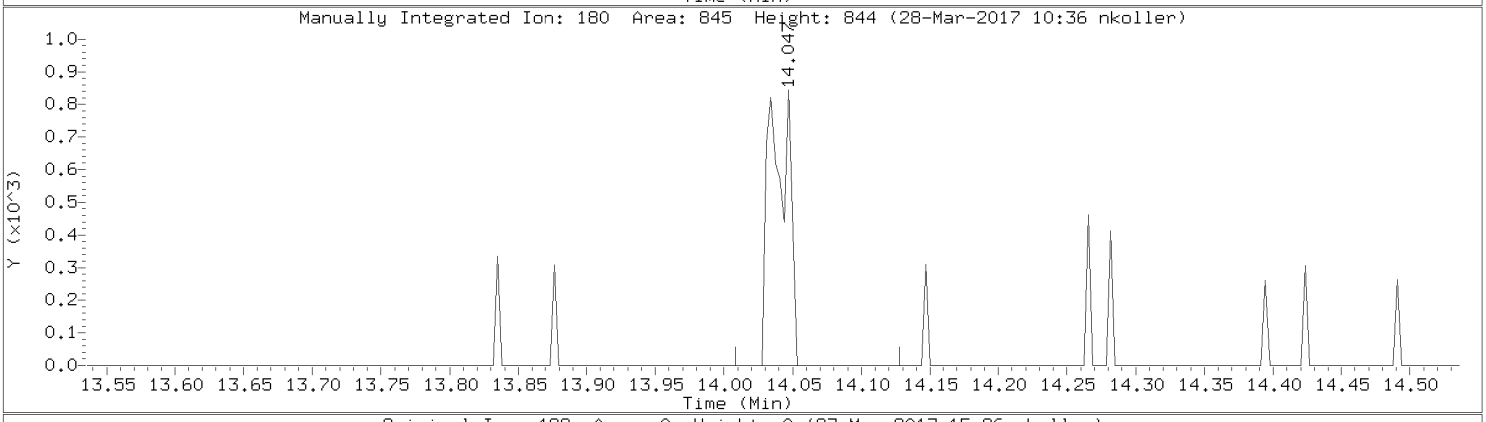
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

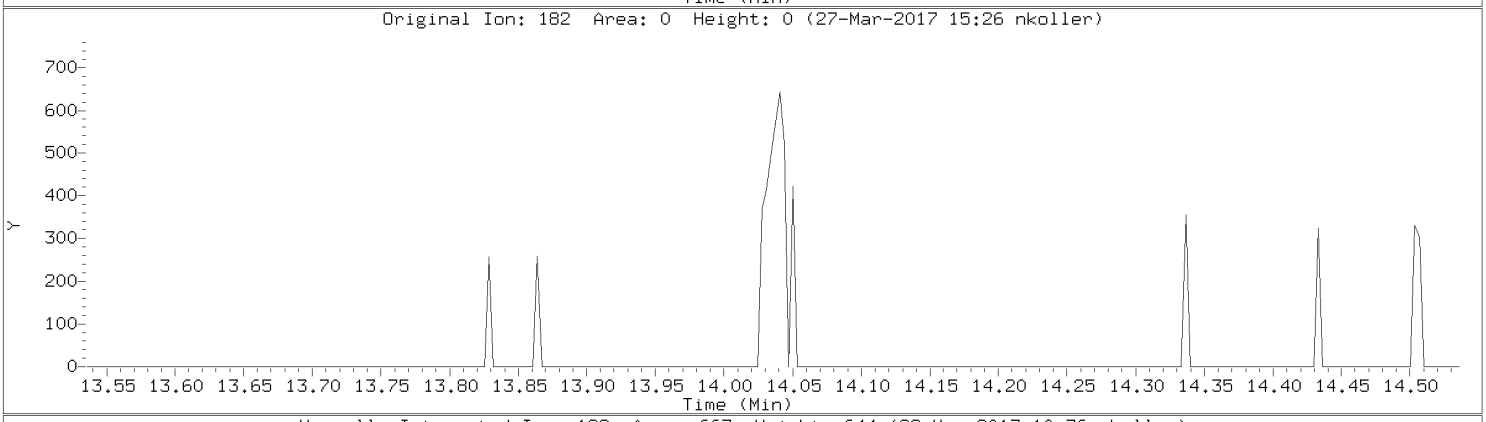


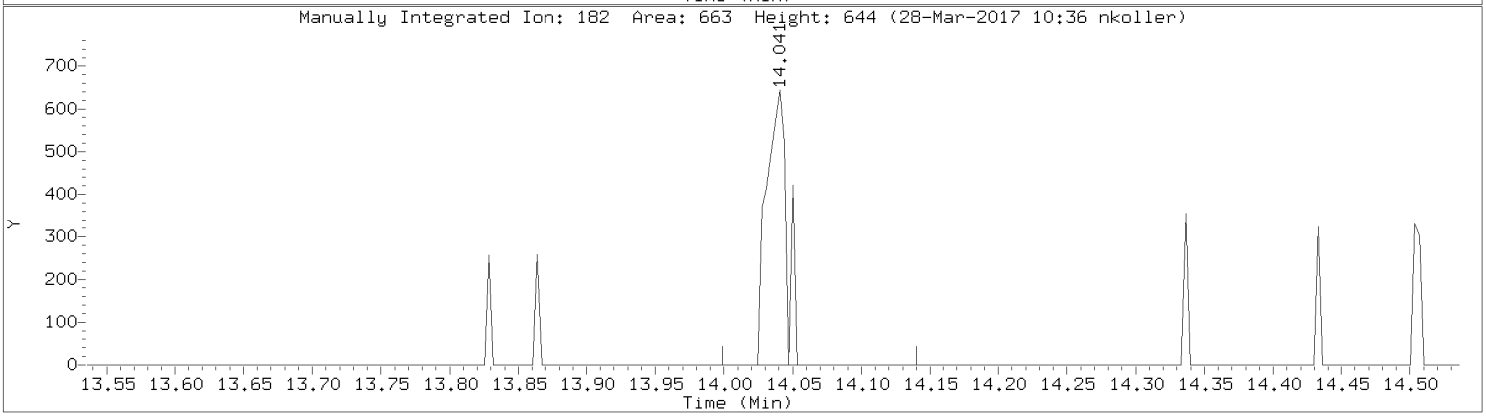
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08611.D
Injection Date: 27-MAR-2017 13:36
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

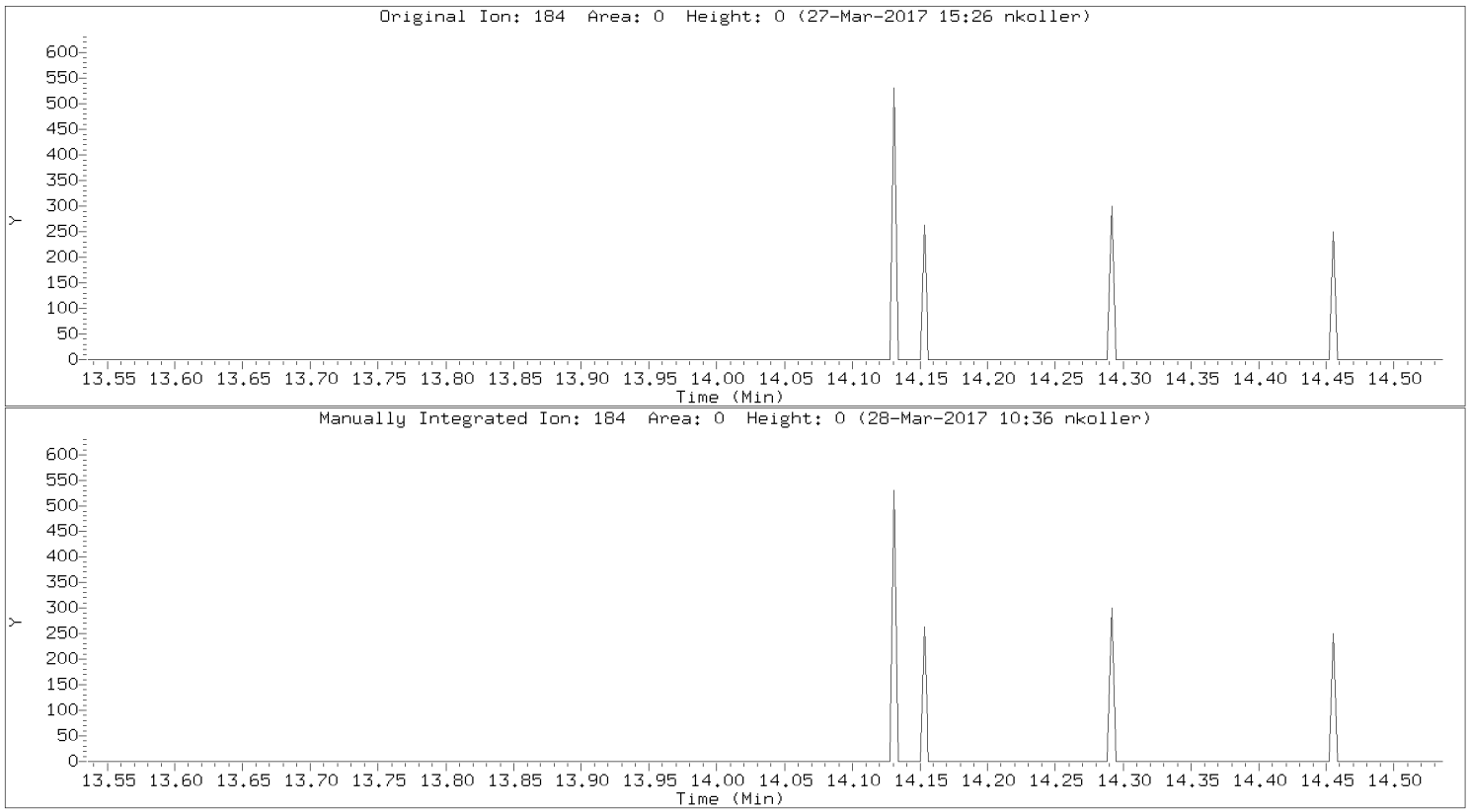






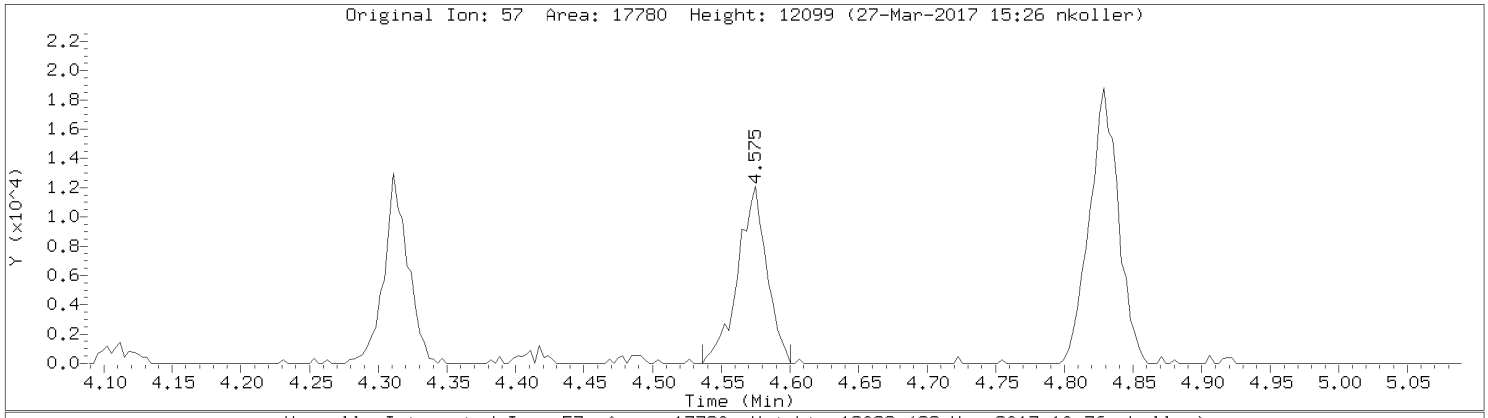


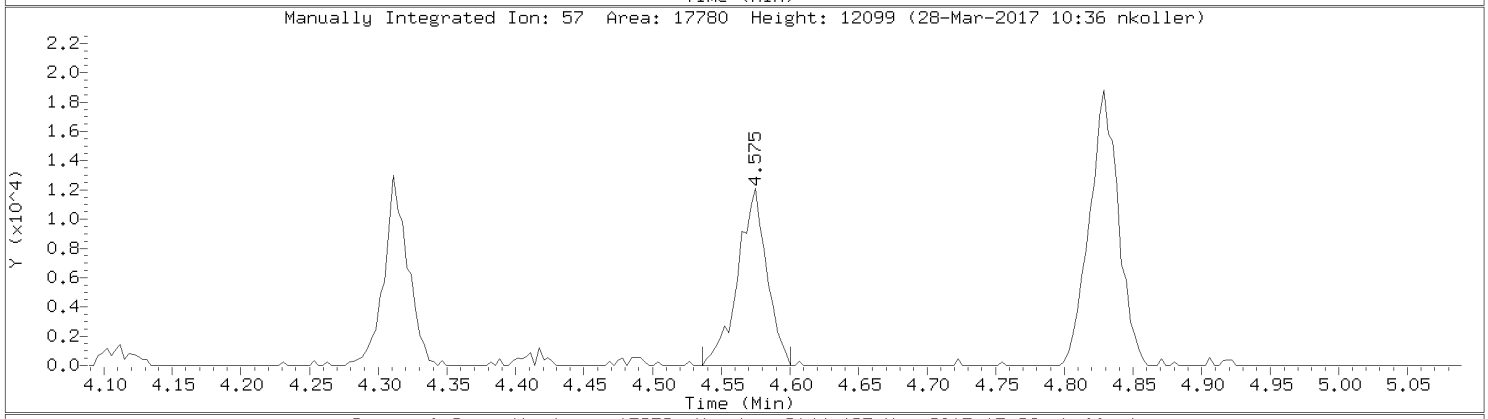
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08611.D
Injection Date: 27-MAR-2017 13:36
Instrument: 10airB.i
Lab Sample ID: cal2

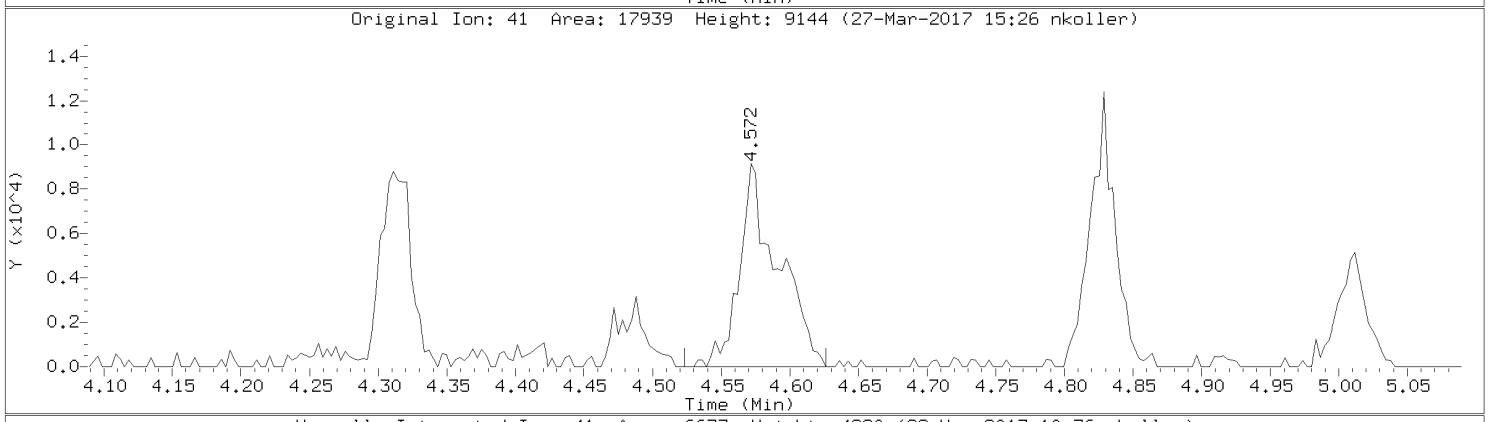


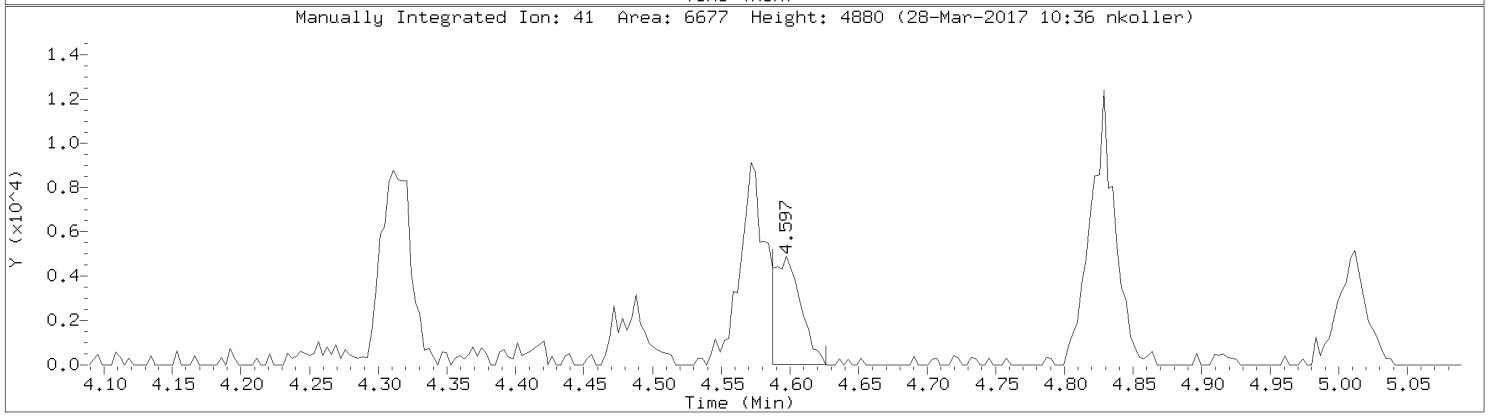
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08611.D
Injection Date: 27-MAR-2017 13:36
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: n-Hexane
CAS Number: 110-54-3

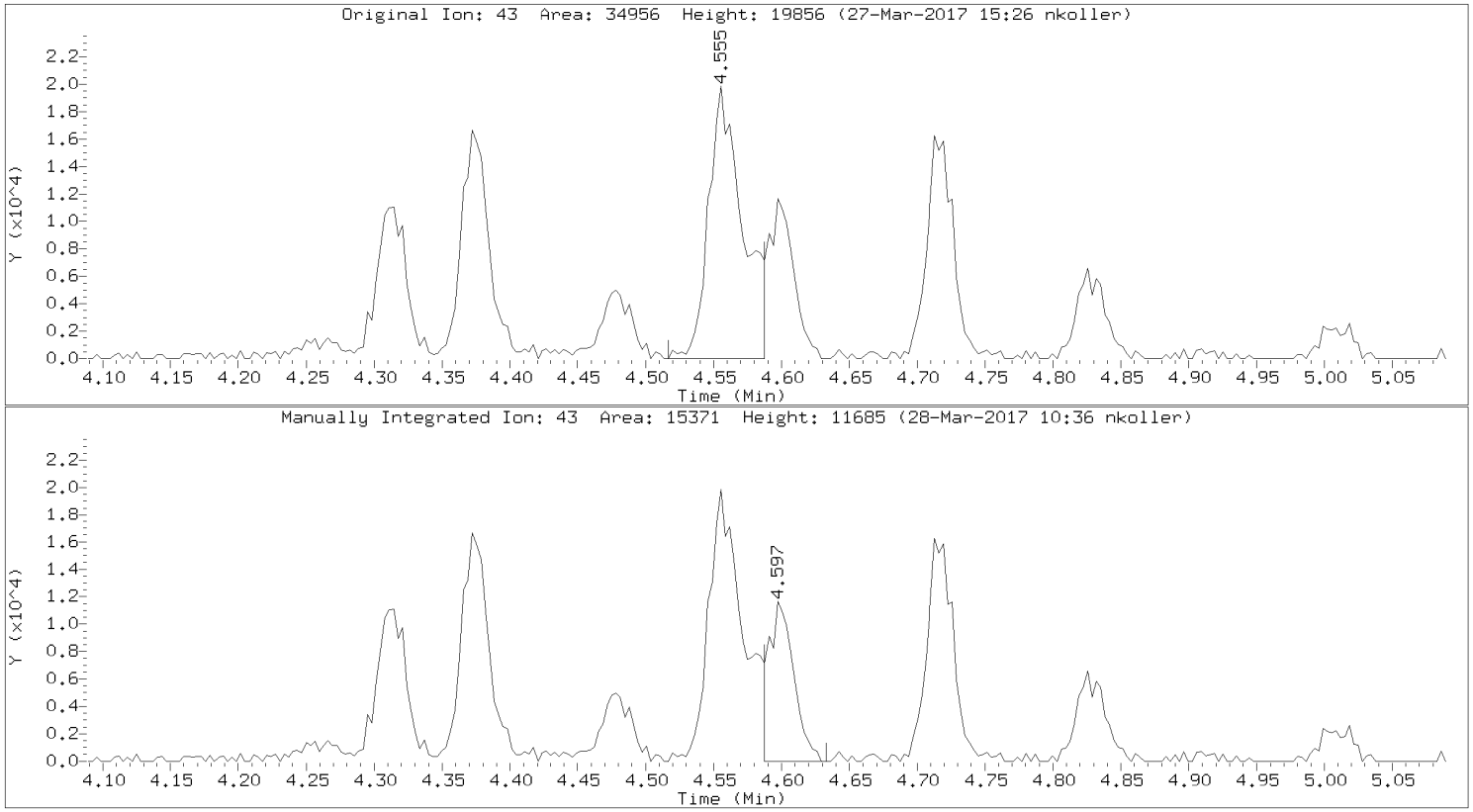






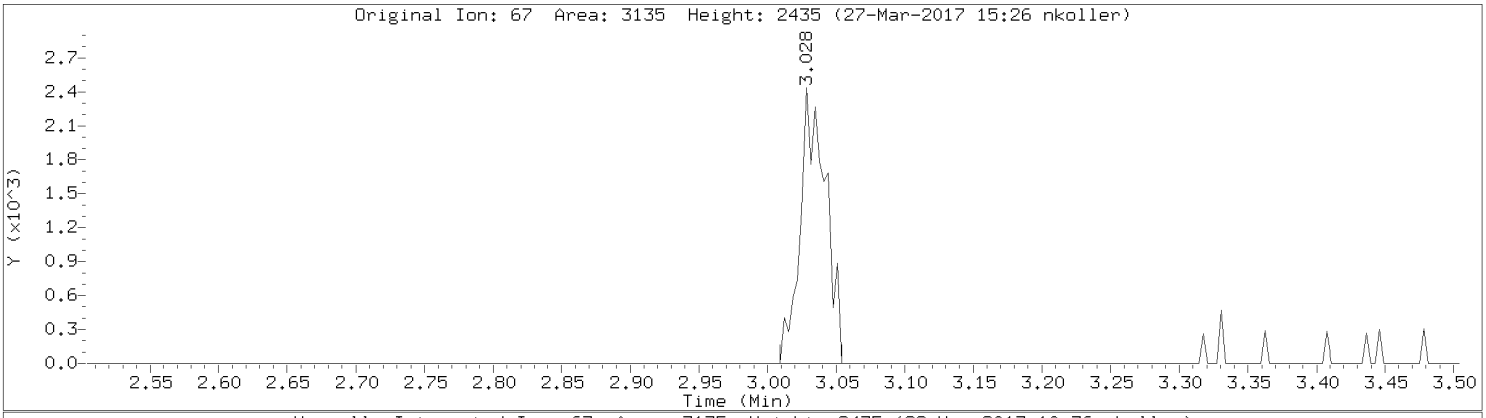


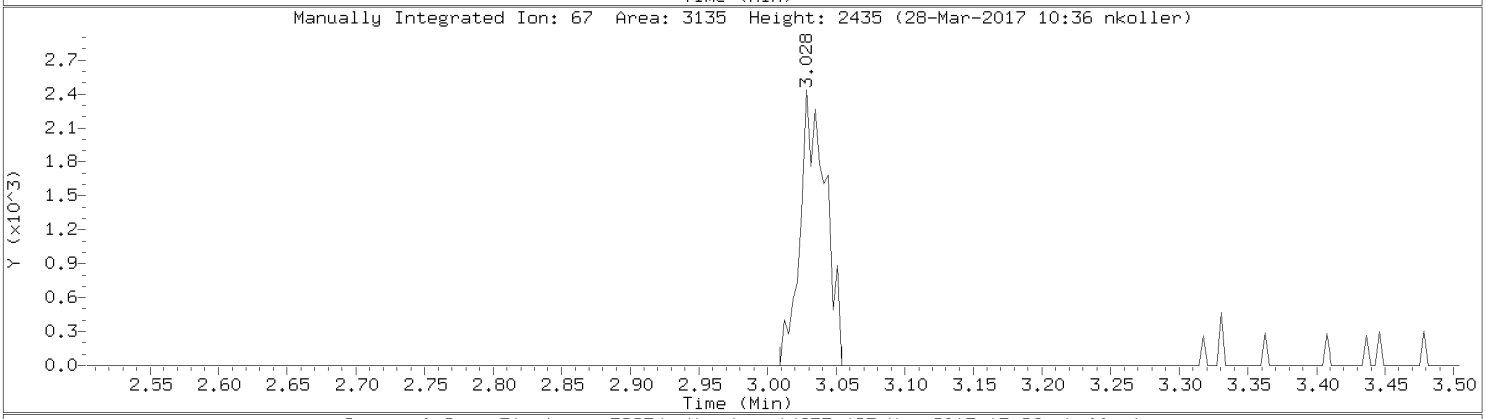
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08611.D
Injection Date: 27-MAR-2017 13:36
Instrument: 10airB.i
Lab Sample ID: cal2

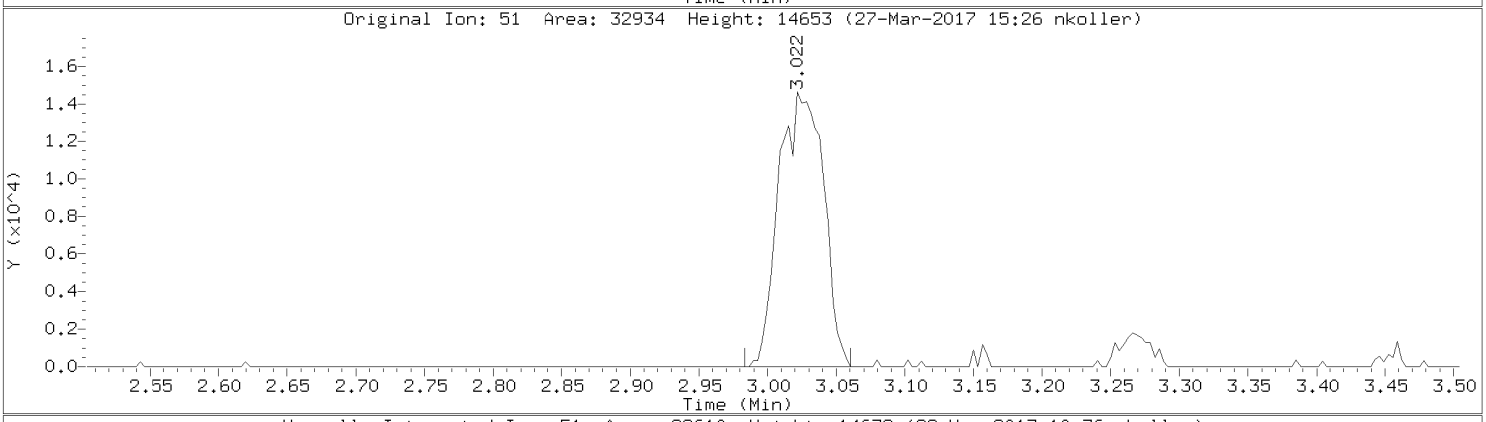


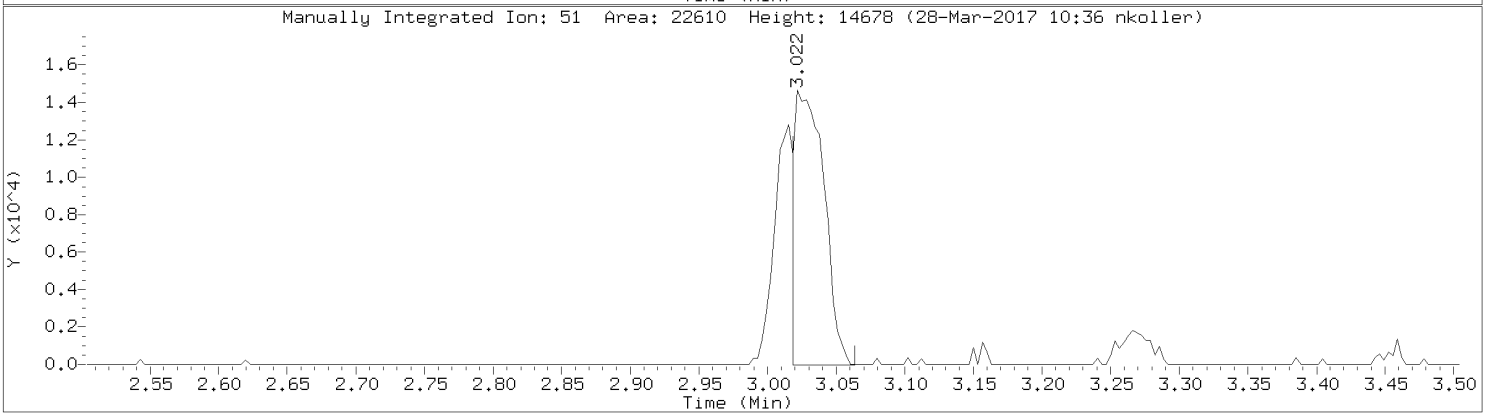
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08611.D
Injection Date: 27-MAR-2017 13:36
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

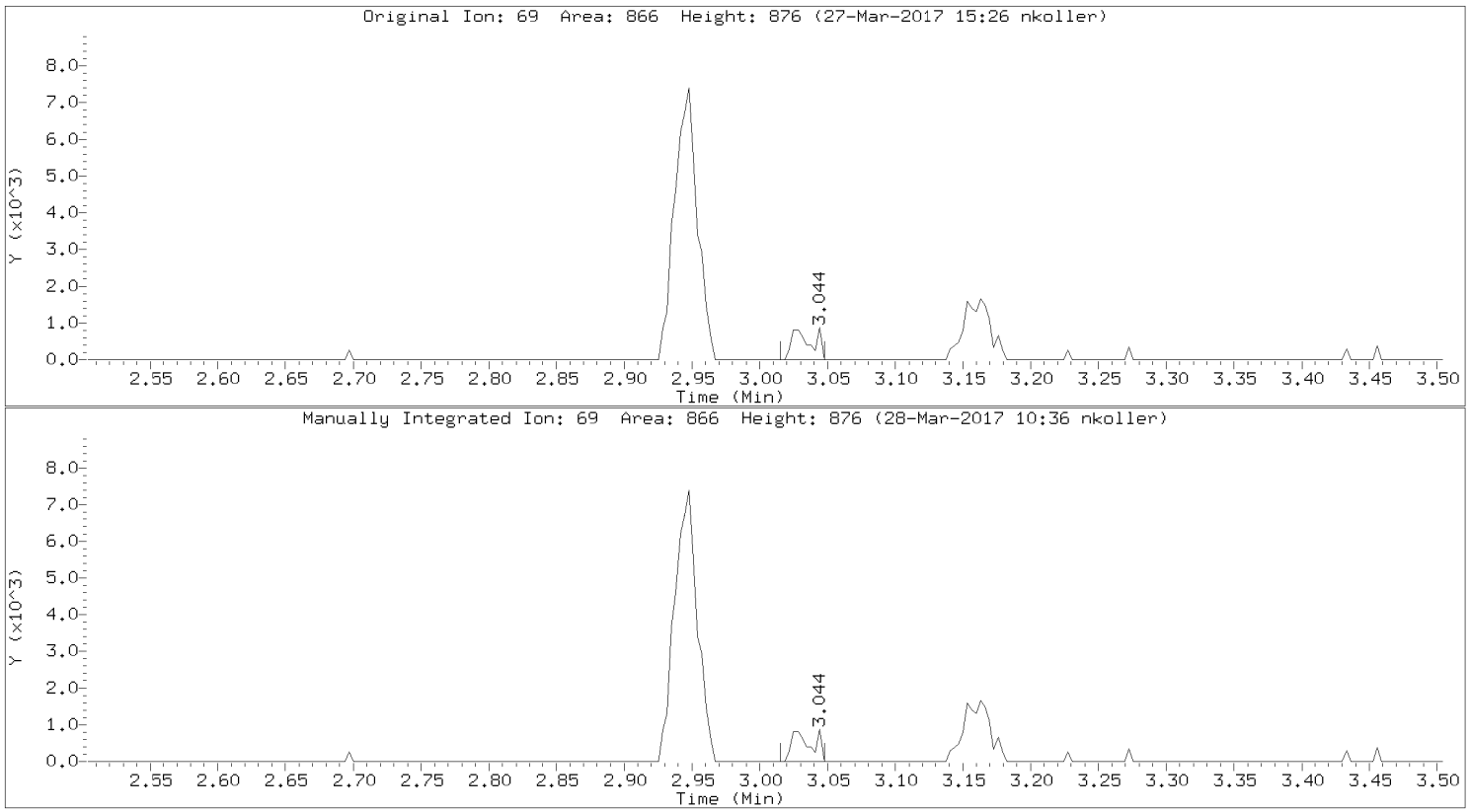






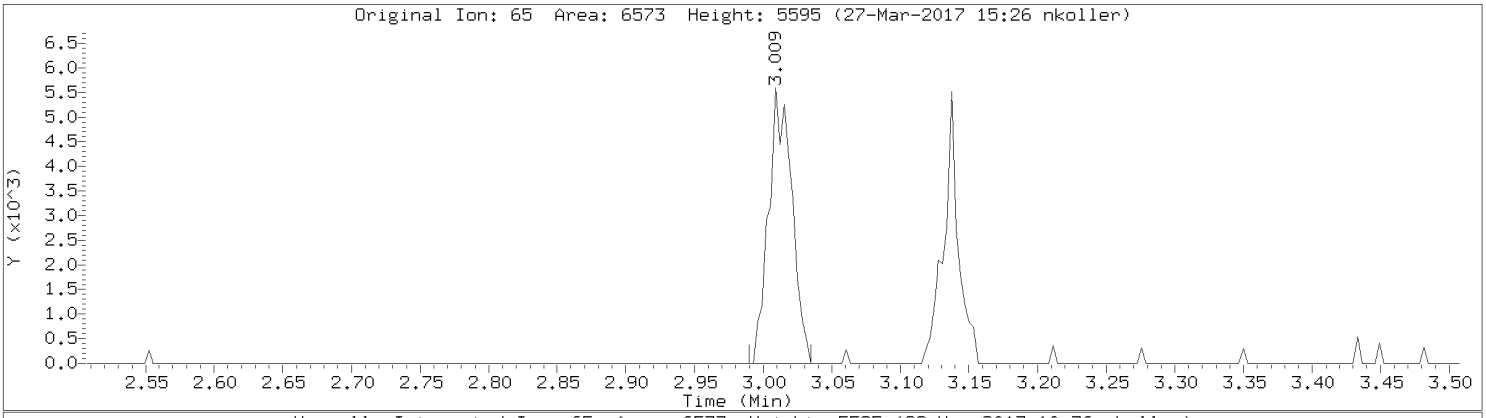


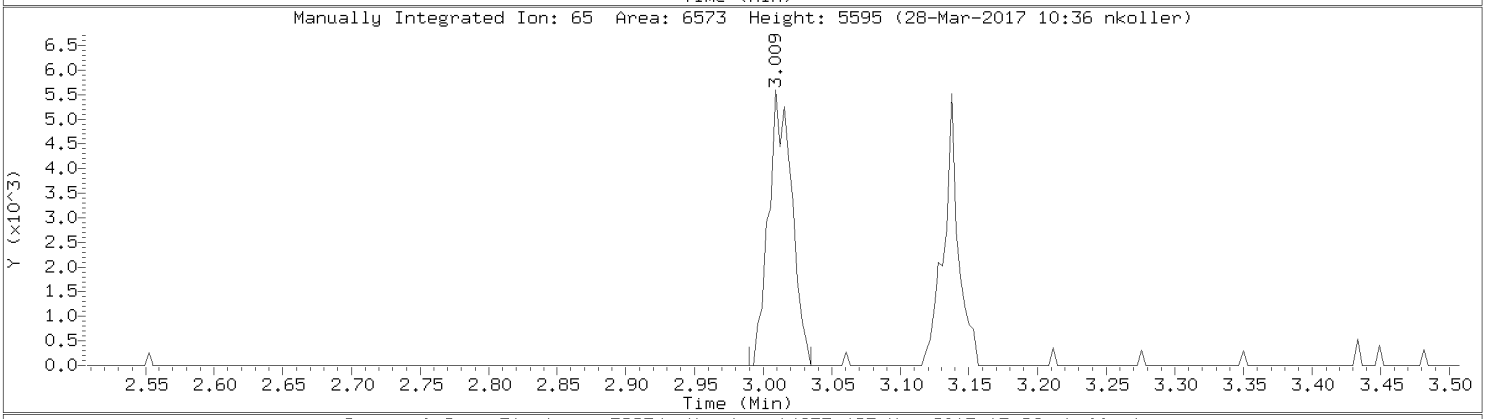
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08611.D
Injection Date: 27-MAR-2017 13:36
Instrument: 10airB.i
Lab Sample ID: cal2

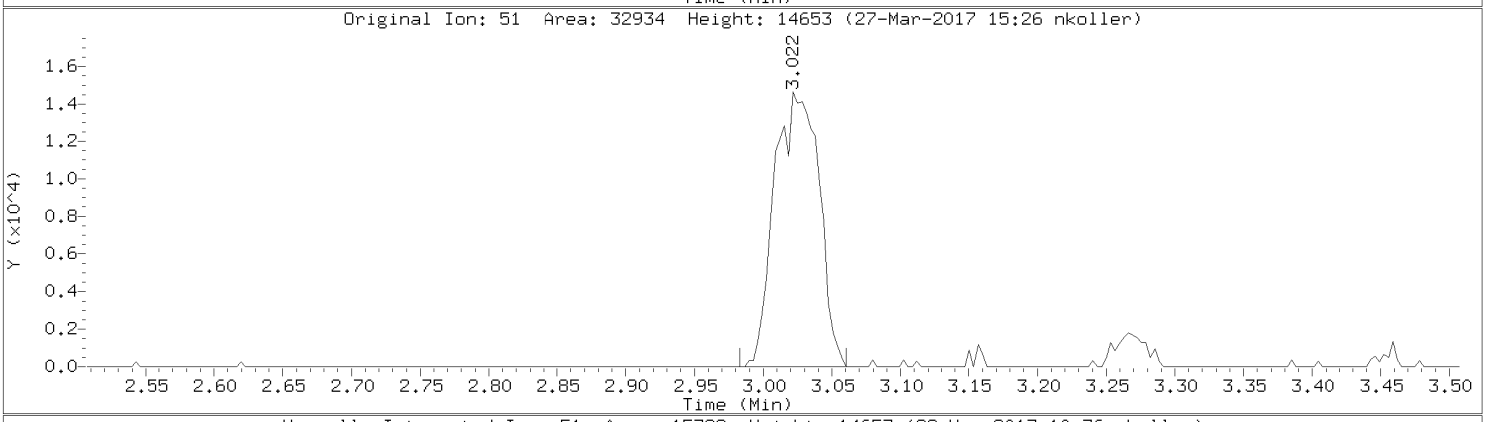


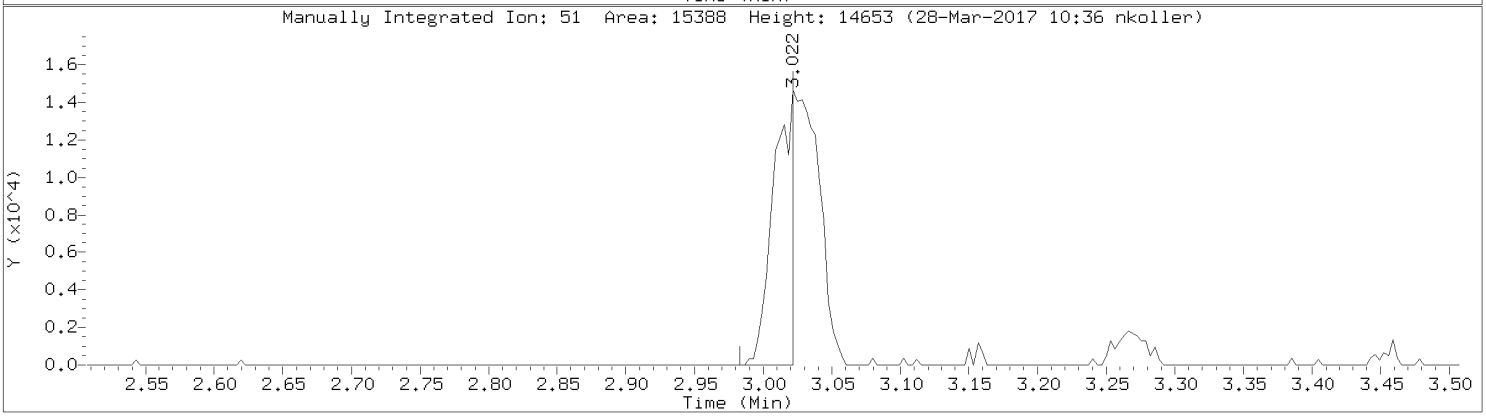
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08611.D
Injection Date: 27-MAR-2017 13:36
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

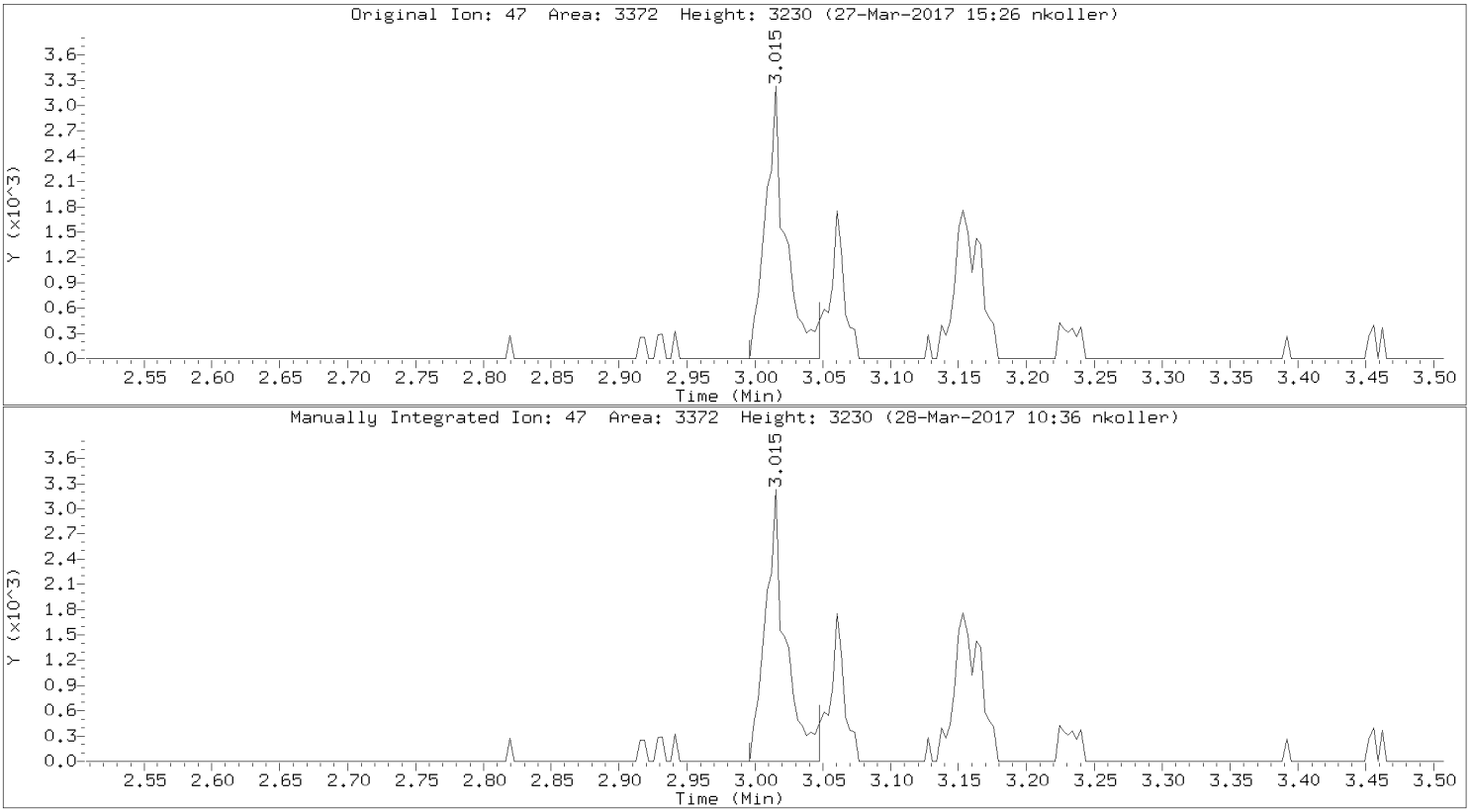








Data File: \\192.168.10.12\chem\10airB.i\032717.b/08611.D
Injection Date: 27-MAR-2017 13:36
Instrument: 10airB.i
Lab Sample ID: cal2



Data File: \\192.168.10.12\chem\10airB.i\032717.b\08612.D
Report Date: 28-Mar-2017 10:37

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08612.D
Lab Smp Id: cal3
Inj Date : 27-MAR-2017 14:03
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 28-Mar-2017 10:37 10airB.i Quant Type: ISTD
Cal Date : 27-MAR-2017 13:36 Cal File: 08611.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.950	2.950	(0.527)	29811	0.50000	0.601
2	1,1-Difluoroethane	65	3.018	3.018	(0.539)	15997	0.50000	0.486(QM)
3	Chlorodifluoromethane	67	3.028	3.028	(0.541)	7475	0.50000	0.505(QM)
4	Propylene	41	3.037	3.037	(0.543)	23320	0.50000	0.540
5	Dichlorodifluoromethane	85	3.066	3.066	(0.548)	80302	0.50000	0.505
6	Chloromethane	50	3.156	3.156	(0.564)	32464	0.50000	0.495
7	Dichlorotetrafluoroethane	85	3.163	3.163	(0.565)	76497	0.50000	0.538
8	Vinyl chloride	62	3.233	3.233	(0.578)	25502	0.50000	0.470
9	1,3-Butadiene	54	3.269	3.269	(0.584)	21243	0.50000	0.518
10	Bromomethane	94	3.407	3.407	(0.609)	22359	0.50000	0.515
11	Chloroethane	64	3.458	3.458	(0.618)	11405	0.50000	0.497
12	Ethanol	45	3.536	3.536	(0.632)	48302	2.50000	2.52
13	Vinyl Bromide	106	3.571	3.571	(0.638)	22782	0.50000	0.521
14	Isopentane	43	3.587	3.587	(0.641)	26783	0.50000	0.491
15	Freon 123	83	3.590	3.590	(0.642)	50263	0.50000	0.585
16	Trichlorofluoromethane	101	3.658	3.658	(0.654)	59078	0.50000	0.530
17	Acrolein	56	3.667	3.667	(0.655)	23528	1.25000	1.34
18	Acetone	43	3.712	3.712	(0.663)	197632	2.50000	2.62
19	Isopropyl Alcohol	45	3.758	3.758	(0.671)	221158	2.50000	2.60(M)
20	1,1-Dichloroethene	61	3.893	3.893	(0.696)	40433	0.50000	0.516
21	Acrylonitrile	53	3.902	3.902	(0.697)	48119	1.25000	1.25
22	Freon 113	101	3.938	3.938	(0.704)	47949	0.50000	0.536
23	Methyl Acetate	43	3.947	3.947	(0.705)	67128	0.50000	0.541

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08612.D
Report Date: 28-Mar-2017 10:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.706)	148552	1.25000	1.38
	25 Methylene chloride	49	3.986	3.986	(0.712)	155409	2.50000	2.68
	26 Allyl Chloride	76	3.999	3.999	(0.714)	21410	1.25000	1.40(Q)
	27 Carbon Disulfide	76	4.108	4.108	(0.734)	49701	0.50000	0.487
	28 trans-1,2-dichloroethene	96	4.253	4.253	(0.760)	21726	0.50000	0.497
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.769)	152831	1.25000	1.31
	30 Vinyl Acetate	43	4.368	4.368	(0.781)	62992	0.50000	0.496
	31 1,1-Dichloroethane	63	4.384	4.384	(0.783)	43146	0.50000	0.507
$	32 Hexane-d14(S)	66	4.478	4.478	(0.800)	1070758	10.0000	9.88
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.813)	11419	0.50000	0.493(Q)
	34 n-Hexane	57	4.574	4.574	(0.817)	42506	0.50000	0.497(QM)
	35 Di-isopropyl Ether	45	4.597	4.597	(0.821)	81551	0.50000	0.486
	36 Ethyl Acetate	43	4.716	4.716	(0.843)	52715	0.50000	0.480
	37 cis-1,2-Dichloroethene	96	4.703	4.703	(0.840)	22536	0.50000	0.470
	38 Ethyl Tert-Butyl Ether	59	4.822	4.822	(0.862)	207427	1.25000	1.22
	39 Chloroform	83	4.815	4.815	(0.860)	44312	0.50000	0.466
	40 Tetrahydrofuran	42	4.999	4.999	(0.893)	32012	0.50000	0.484
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	62080	0.50000	0.503
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	50088	0.50000	0.528
	43 Benzene	78	5.449	5.449	(0.974)	85191	0.50000	0.511
	44 Carbon tetrachloride	117	5.471	5.471	(0.978)	59599	0.50000	0.499
	45 Cyclohexane	56	5.481	5.481	(0.979)	50224	0.50000	0.524
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(1.001)	109172	0.50000	0.443
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	2890337	10.0000	
	48 2,2,4-Trimethylpentane	57	5.757	5.757	(1.029)	398890	1.25000	1.37
	49 Heptane	43	5.876	5.876	(1.050)	54446	0.50000	0.517
	50 1,2-Dichloropropane	63	5.950	5.950	(1.063)	32632	0.50000	0.498
	51 Trichloroethene	130	5.973	5.973	(1.067)	43227	0.50000	0.494
	52 Methyl methacrylate	69	6.040	6.040	(1.079)	28224	0.50000	0.474(Q)
	53 1,4-Dioxane	88	6.079	6.079	(1.086)	21959	0.50000	0.540
	54 Bromodichloromethane	83	6.069	6.069	(1.084)	56510	0.50000	0.487
	55 Methylcyclohexane	98	6.417	6.417	(1.146)	26695	0.50000	0.541(Q)
	56 Methyl Isobutyl Ketone	43	6.532	6.532	(1.167)	189467	1.25000	1.33
	57 cis-1,3-Dichloropropene	75	6.574	6.574	(1.175)	44166	0.50000	0.469
	58 trans-1,3-Dichloropropene	75	6.976	6.976	(1.246)	37649	0.50000	0.520
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	2365535	10.0000	9.71
	60 1,1,2-Trichloroethane	97	7.134	7.134	(1.275)	33709	0.50000	0.485
	61 Toluene	91	7.146	7.146	(1.277)	103782	0.50000	0.512
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.854)	152637	1.25000	1.27
	63 n-Octane	43	7.577	7.577	(0.877)	69599	0.50000	0.518
	64 Dibromochloromethane	129	7.667	7.667	(0.888)	56255	0.50000	0.475
	65 1,2-Dibromoethane	107	7.899	7.899	(0.914)	53678	0.50000	0.503
	66 Tetrachloroethene	166	7.973	7.973	(0.923)	57917	0.50000	0.517
*	67 Chlorobenzene - d5	117	8.638	8.638	(1.000)	1710805	10.0000	
	68 Chlorobenzene	112	8.680	8.680	(1.005)	81458	0.50000	0.501
	69 Ethyl Benzene	91	8.931	8.931	(1.034)	128549	0.50000	0.513
	70 m&p-Xylene	91	9.076	9.076	(1.051)	200821	1.00000	1.05
	71 n-Nonane	43	9.468	9.468	(1.096)	63075	0.50000	0.528
	72 Bromoform	173	9.471	9.471	(1.096)	43007	0.50000	0.471
	73 Styrene	104	9.500	9.500	(1.100)	68161	0.50000	0.484
	74 o-Xylene	91	9.571	9.571	(1.108)	104088	0.50000	0.529
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	50810	0.50000	0.476
	76 Isopropylbenzene	105	10.153	10.153	(1.175)	137791	0.50000	0.517
	77 N-Propylbenzene	91	10.732	10.732	(1.242)	140952	0.50000	0.504

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08612.D
Report Date: 28-Mar-2017 10:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	10.905	10.905	(1.262)	114242	0.50000	0.480
79	1,3,5-Trimethylbenzene	105	10.995	10.995	(1.273)	102466	0.50000	0.490
80	n-Decane	57	11.375	11.375	(2.032)	55816	0.50000	0.446
81	Tert-Butyl Benzene	119	11.494	11.494	(1.331)	112677	0.50000	0.505
82	1,2,4-Trimethylbenzene	105	11.506	11.506	(1.332)	91797	0.50000	0.495
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.365)	45261	0.50000	0.467
84	Sec- Butylbenzene	105	11.799	11.799	(1.366)	132832	0.50000	0.504
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.850	(1.372)	732707	10.0000	9.02
86	Benzyl Chloride	91	11.857	11.857	(1.373)	31855	0.50000	0.442
87	1,4-Dichlorobenzene	146	11.883	11.883	(1.376)	44061	0.50000	0.371
88	p-Isopropyltoluene	119	11.982	11.982	(1.387)	106810	0.50000	0.482
89	1,2,3-Trimethylbenzene	105	12.027	12.027	(1.392)	86545	0.50000	0.484
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	43642	0.50000	0.404
91	N-Butylbenzene	91	12.458	12.458	(1.442)	64877	0.50000	0.326
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.494)	9785	0.50000	0.475
93	1,2,4-Trichlorobenzene	180	14.043	14.043	(1.626)	3396	0.50000	0.469(Q)
94	Naphthalene	128	14.172	14.172	(1.641)	15081	0.50000	0.543
95	Hexachlorobutadiene	225	14.416	14.416	(1.669)	18549	0.50000	0.503

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08612.D
Report Date: 28-Mar-2017 10:37

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08612.D
Lab Smp Id: cal3
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info:

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

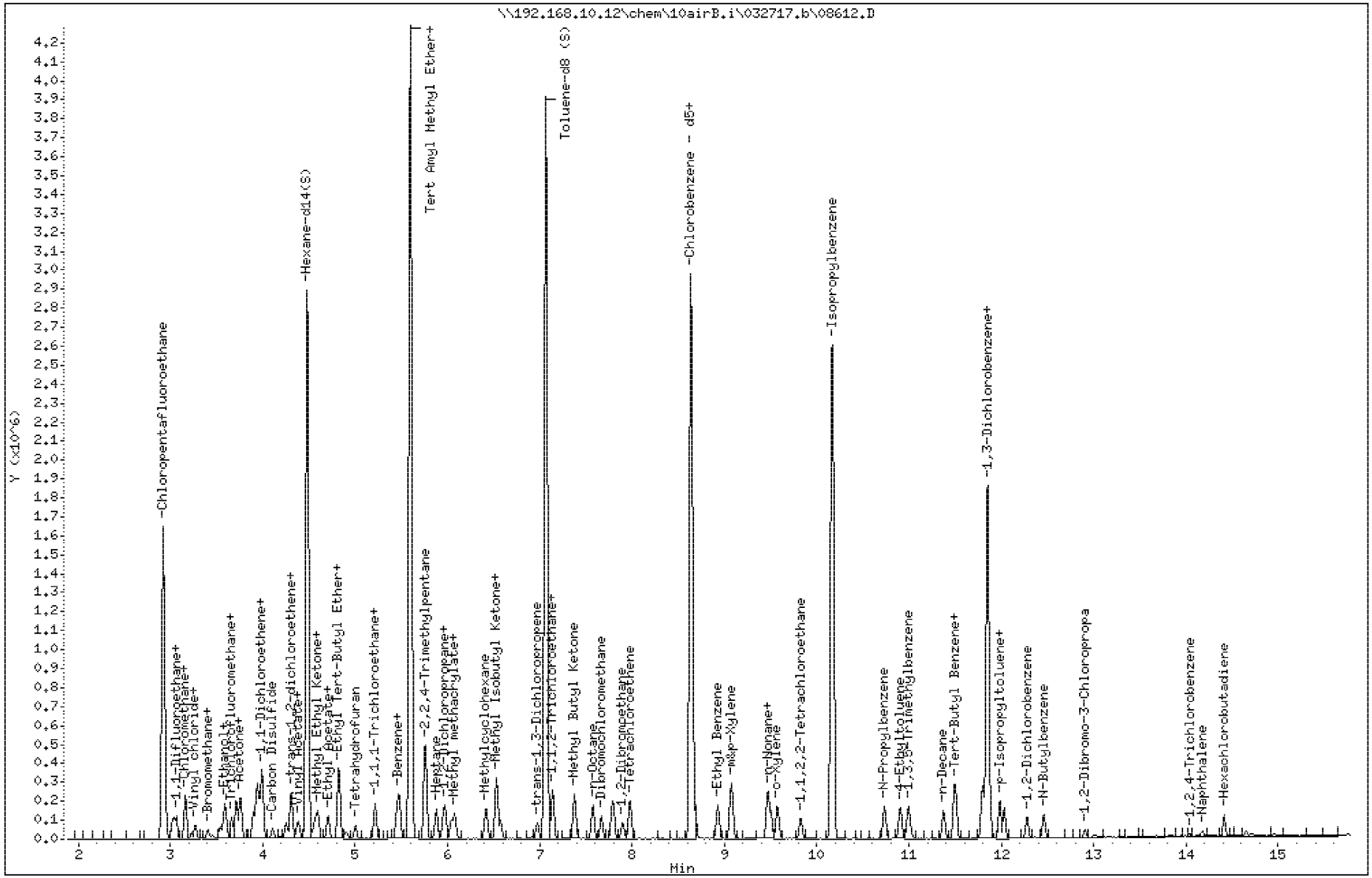
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2890337	2.07
67 Chlorobenzene - d	1804482	1082689	2526275	1710805	-5.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

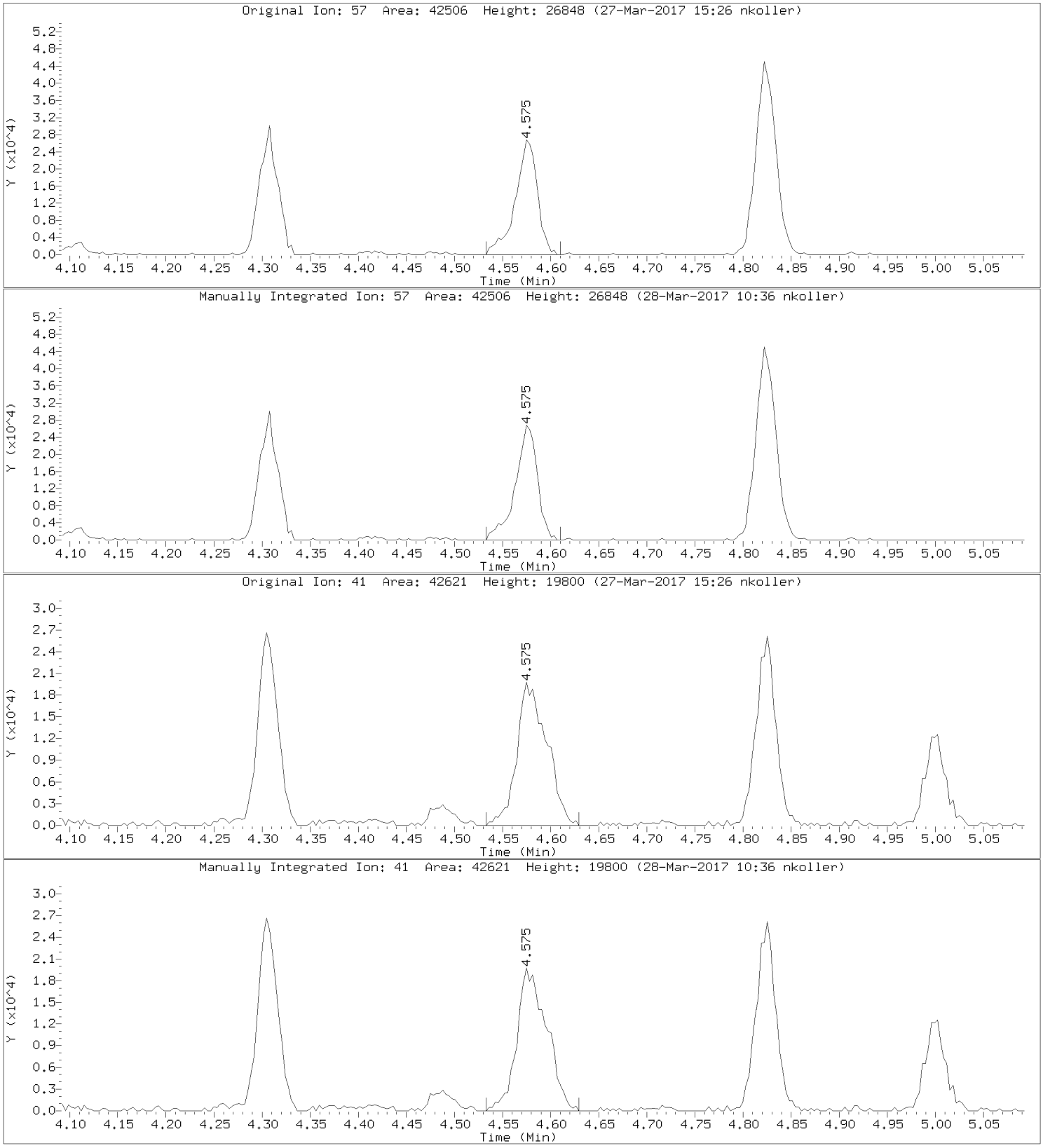
Data File: \\192.168.10.12\chem\10airB.i\032717.b\08612.D
Date : 27-MAR-2017 14:03
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

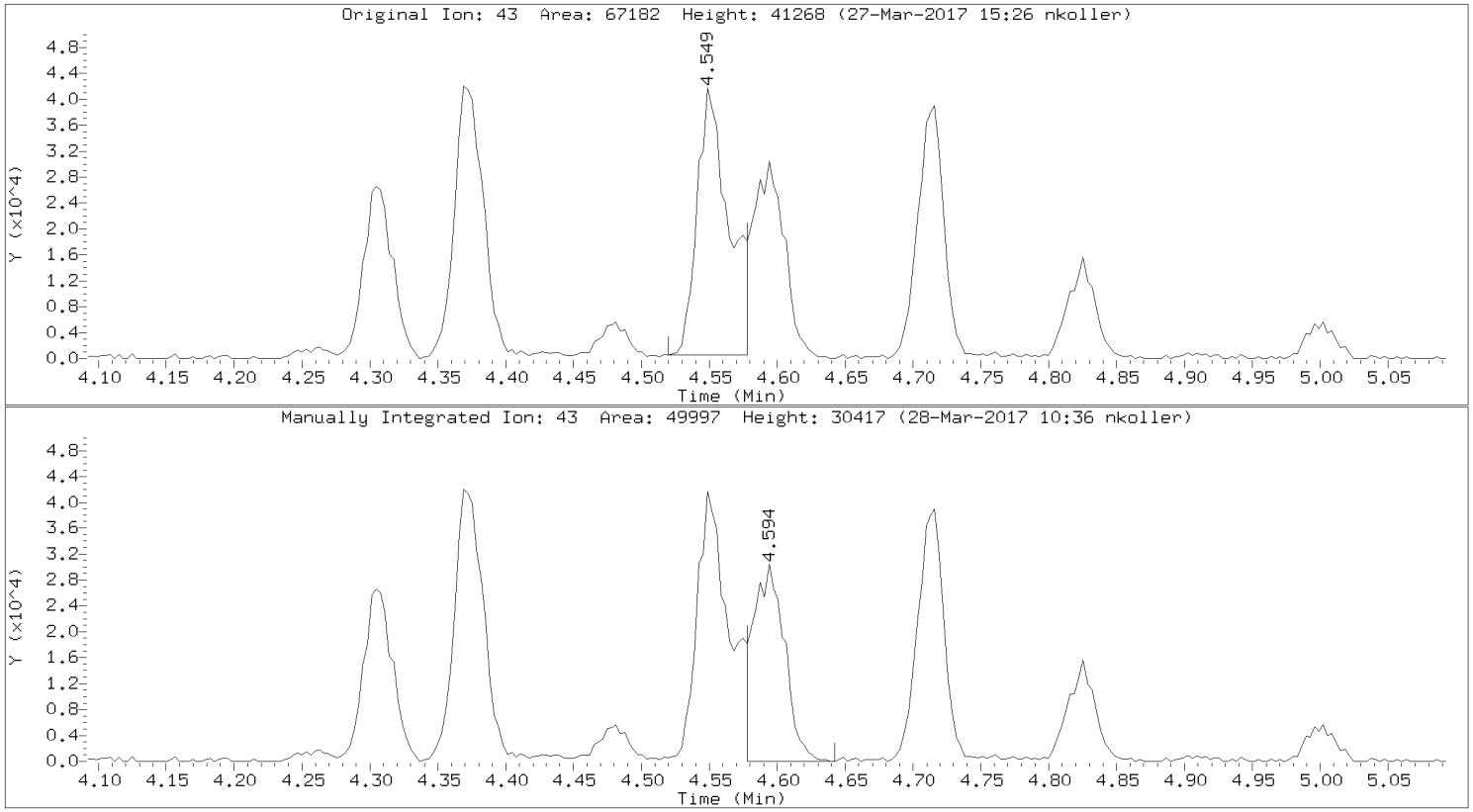


Data File: \\192.168.10.12\chem\10airB.i\032717.b/08612.D
Injection Date: 27-MAR-2017 14:03
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: n-Hexane
CAS Number: 110-54-3

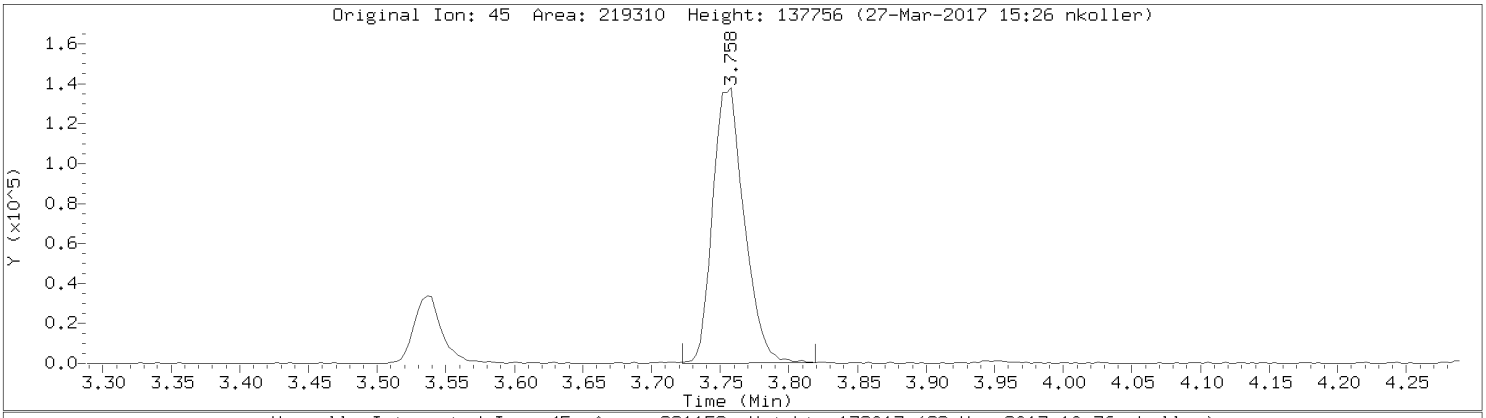


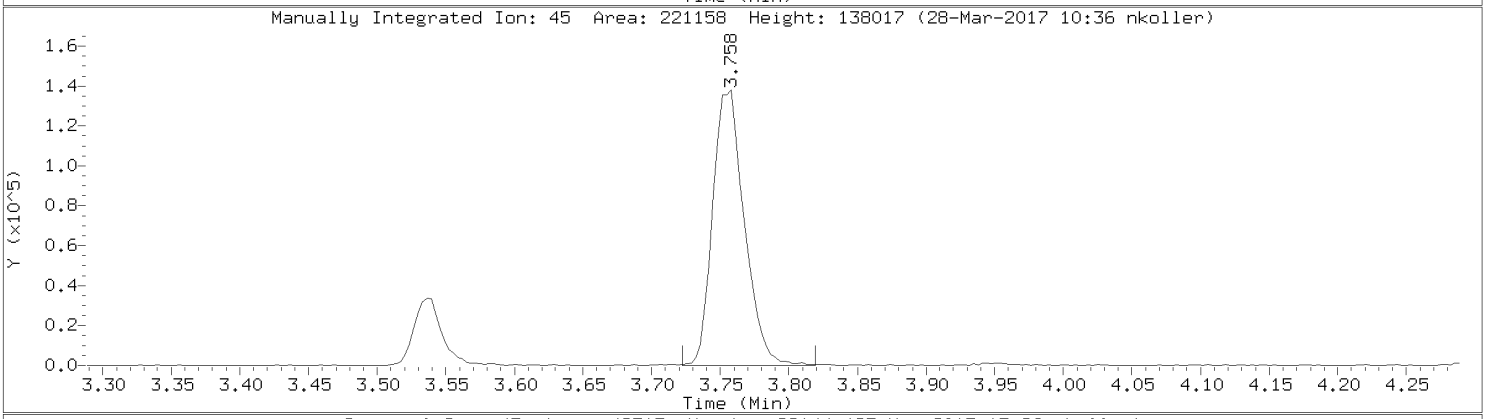
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08612.D
Injection Date: 27-MAR-2017 14:03
Instrument: 10airB.i
Lab Sample ID: cal3

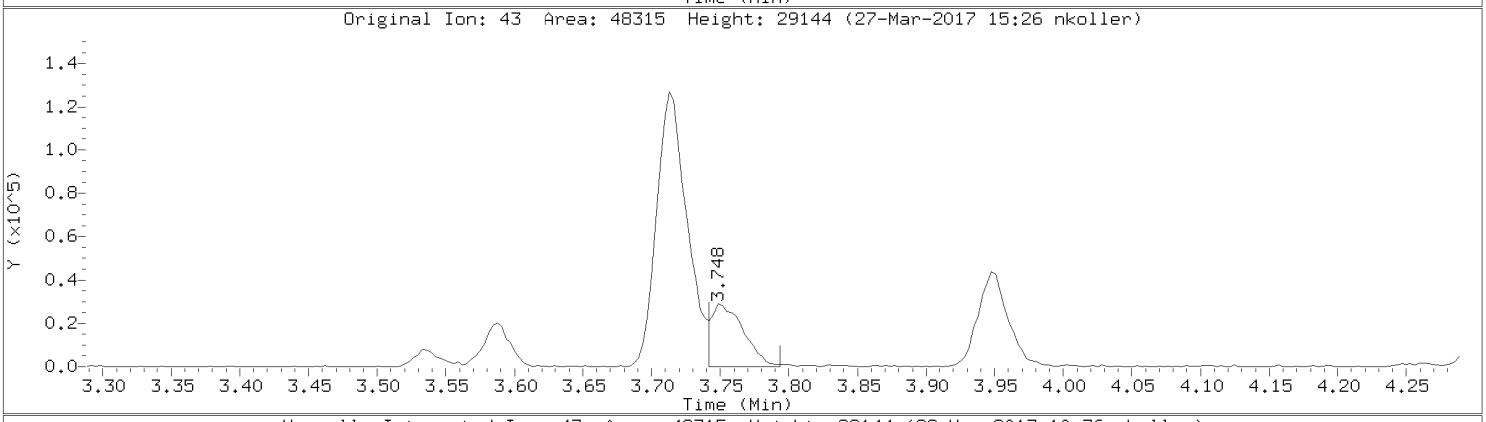


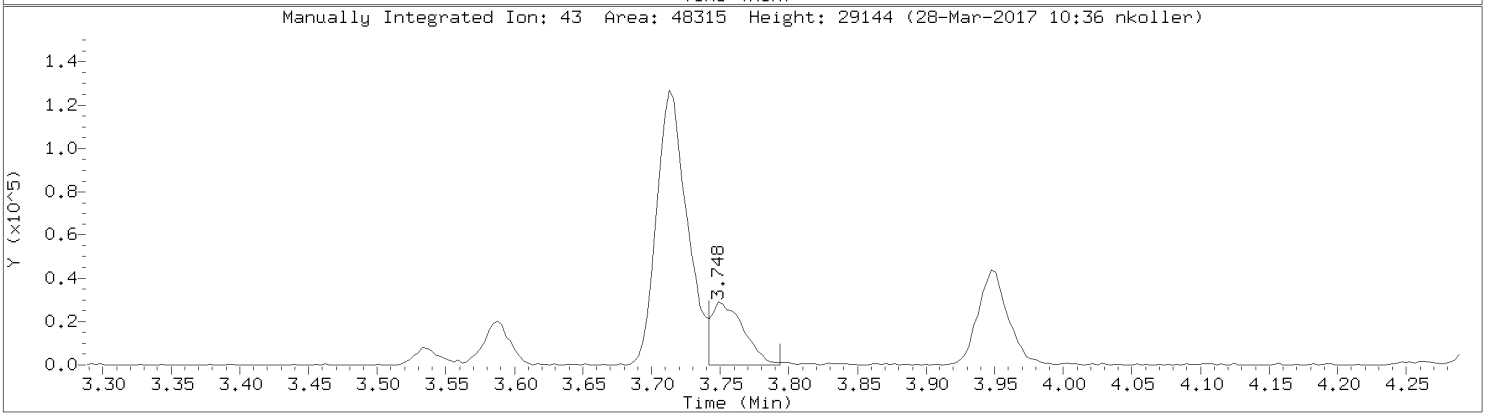
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08612.D
Injection Date: 27-MAR-2017 14:03
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



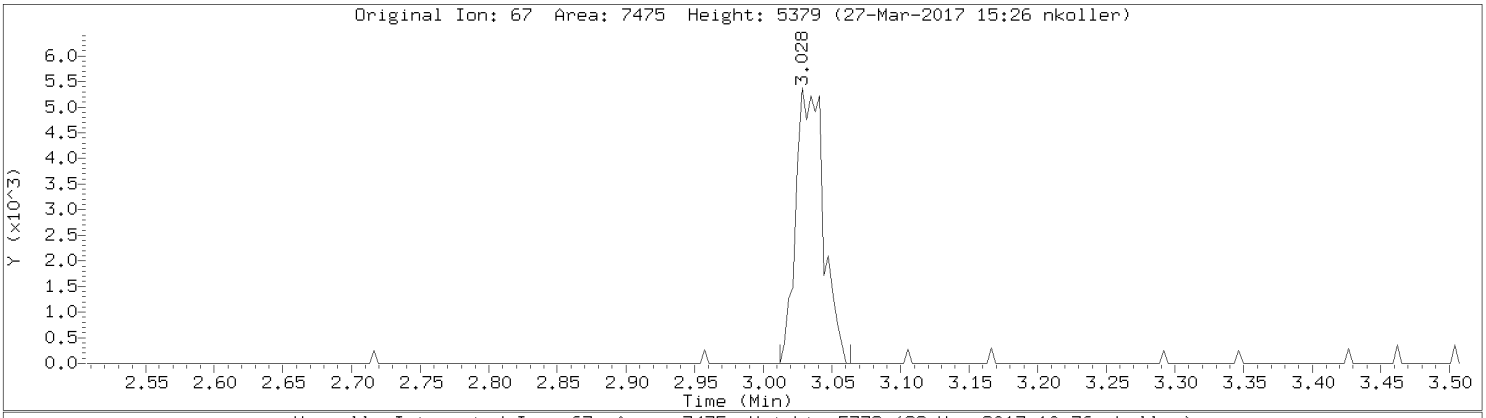


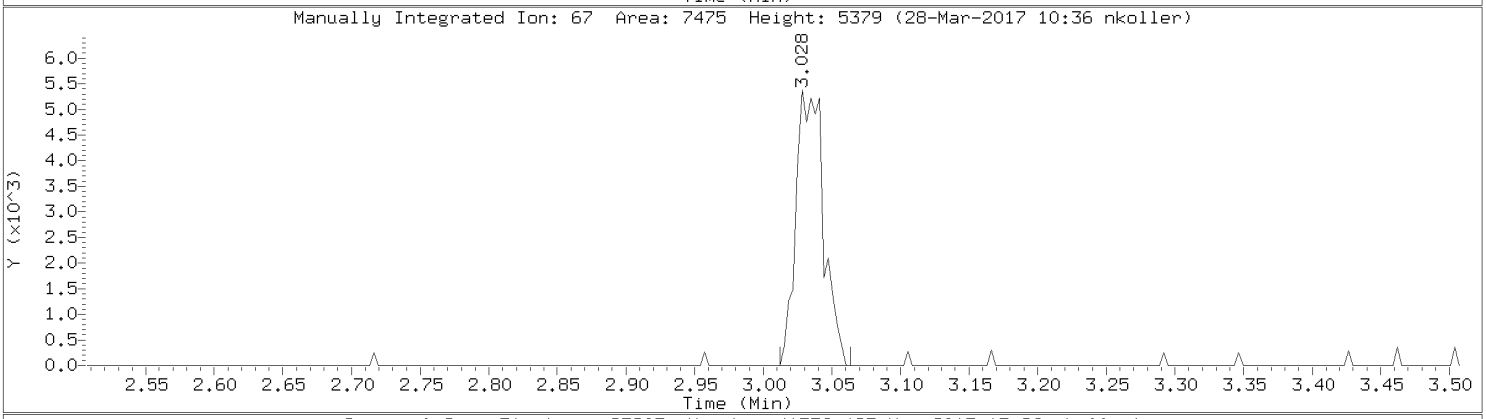


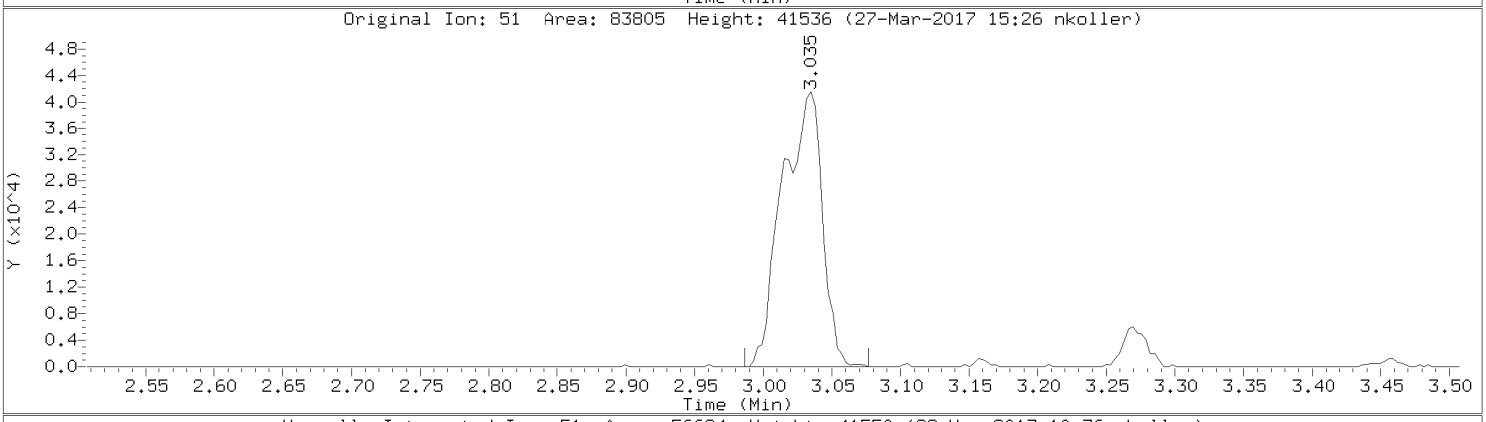


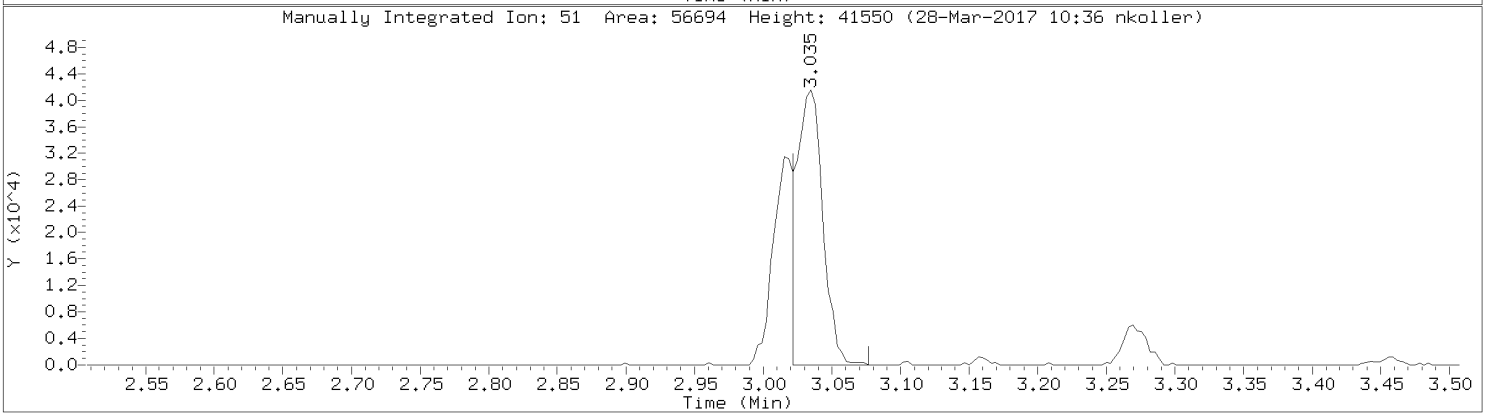
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08612.D
Injection Date: 27-MAR-2017 14:03
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

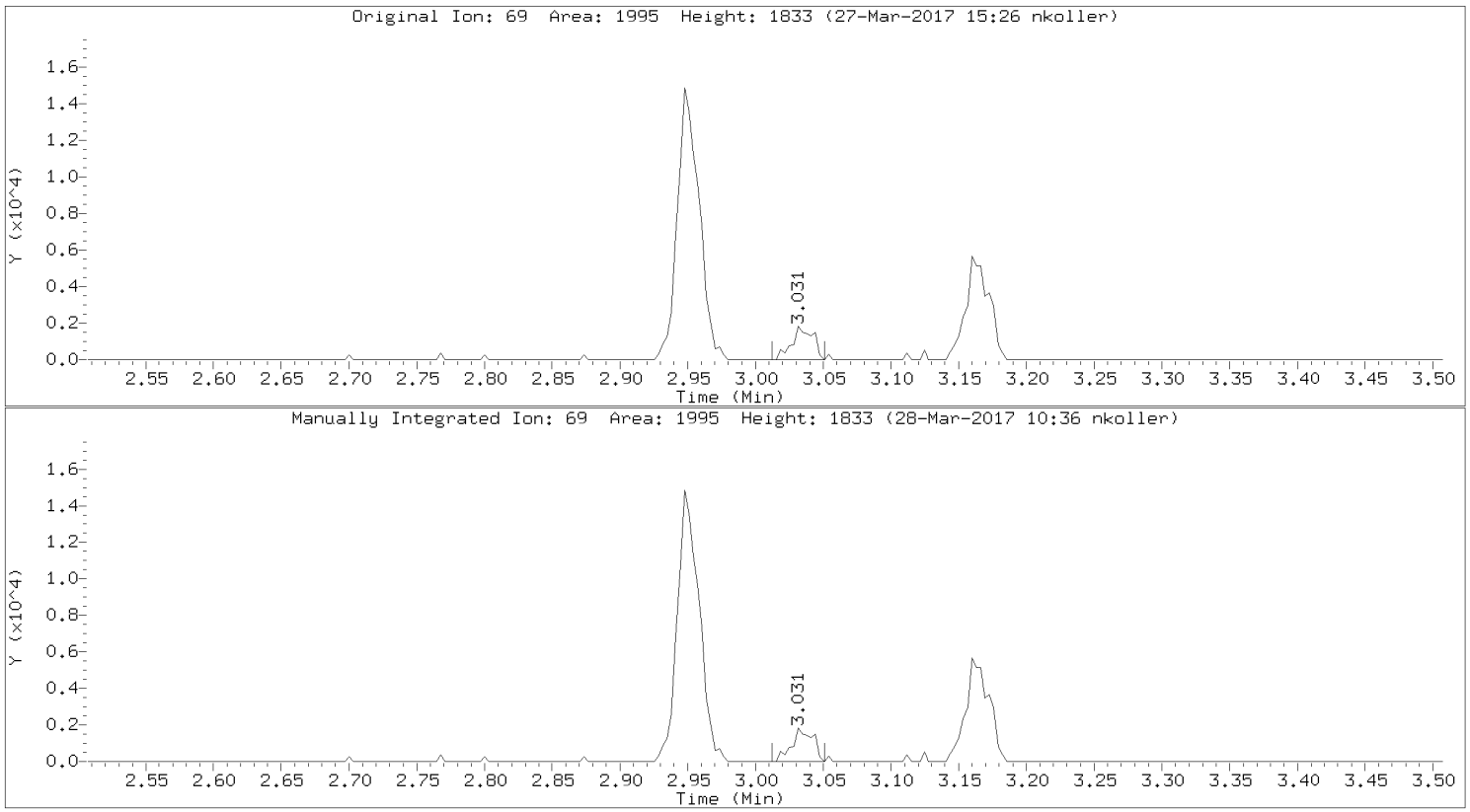






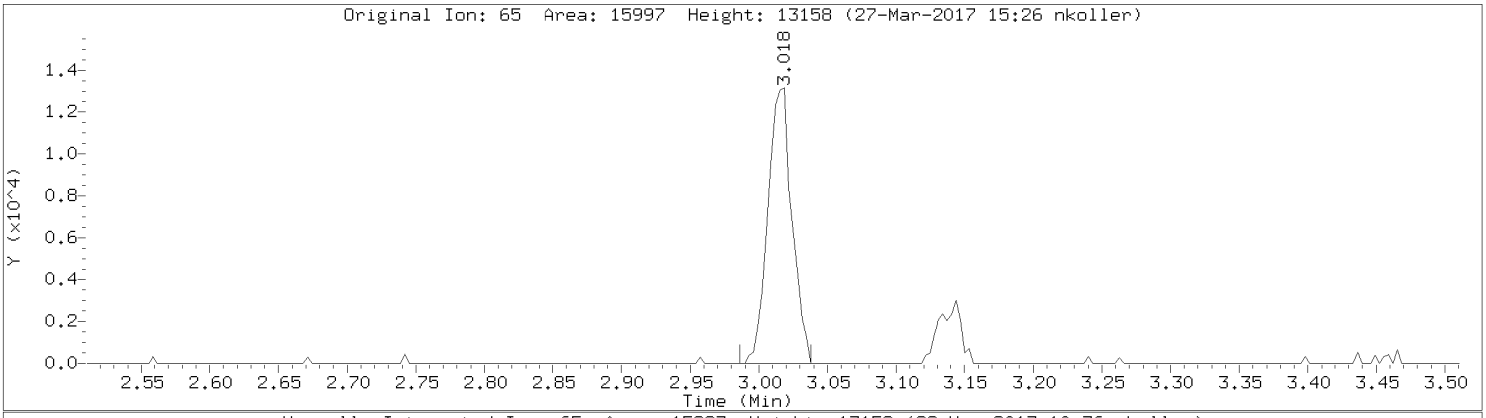


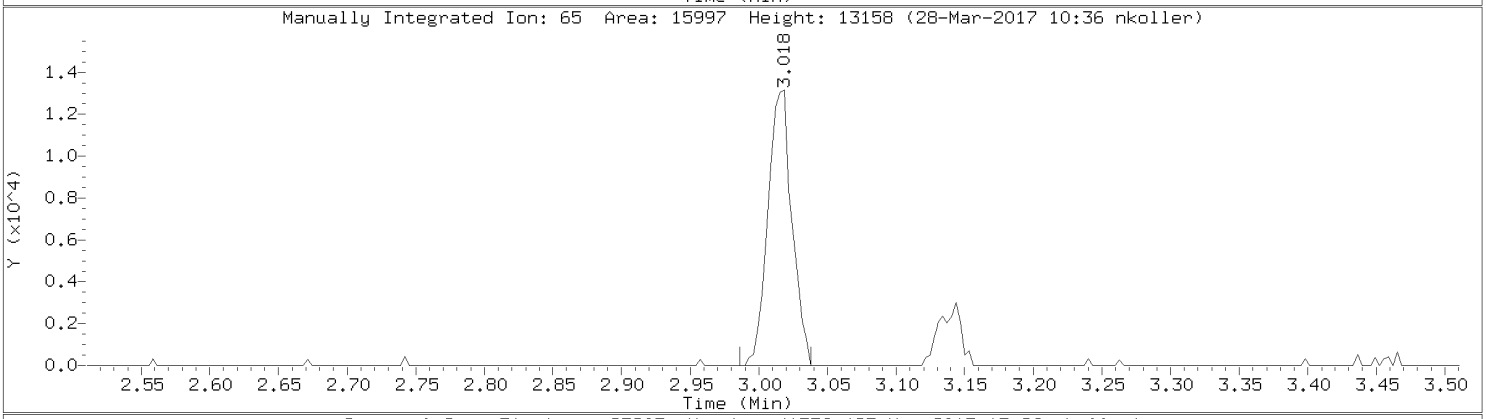
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08612.D
Injection Date: 27-MAR-2017 14:03
Instrument: 10airB.i
Lab Sample ID: cal3

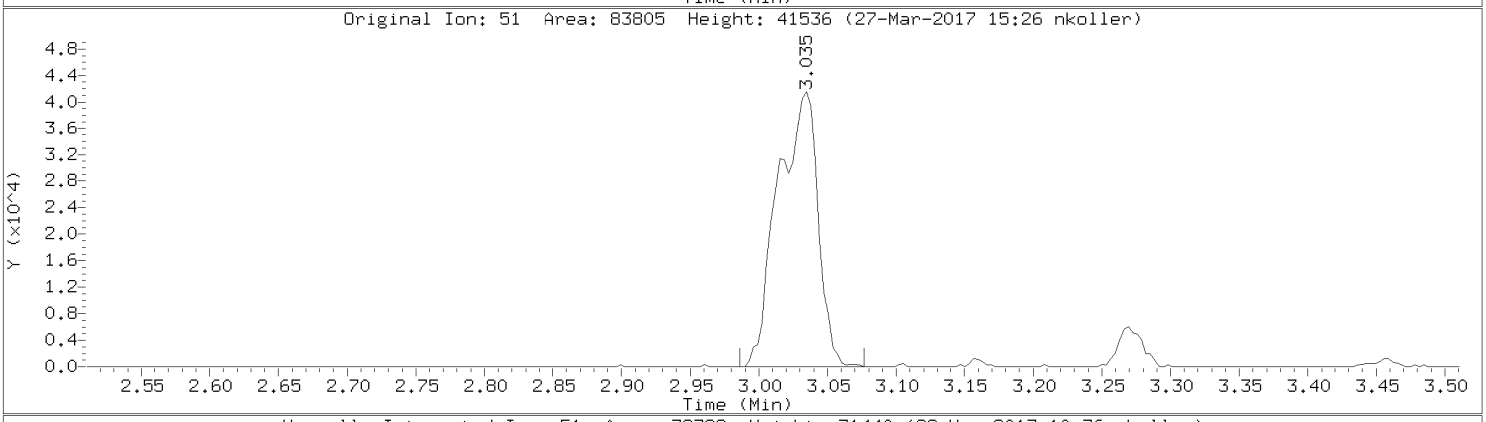


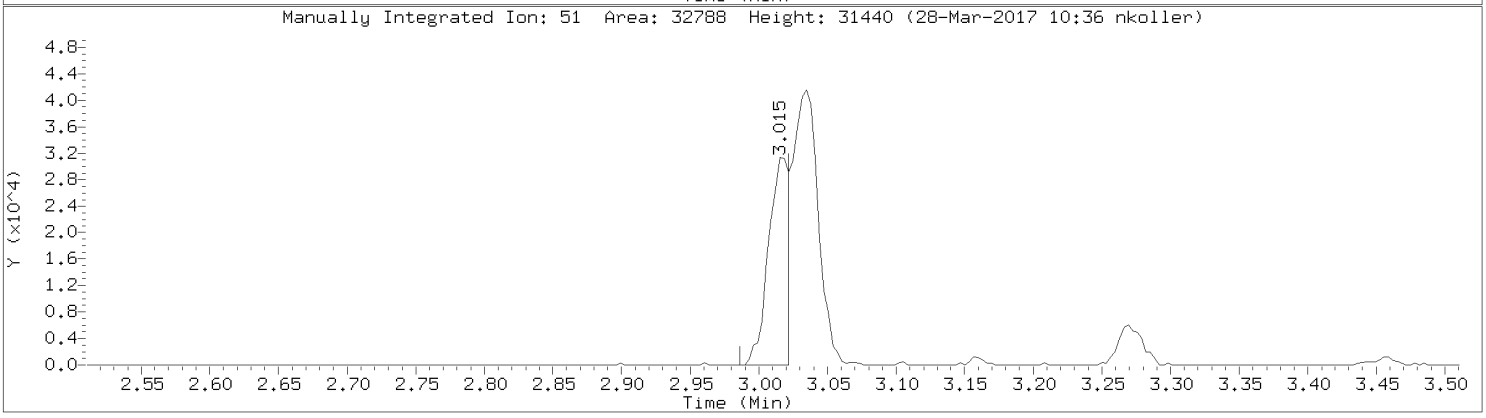
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08612.D
Injection Date: 27-MAR-2017 14:03
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

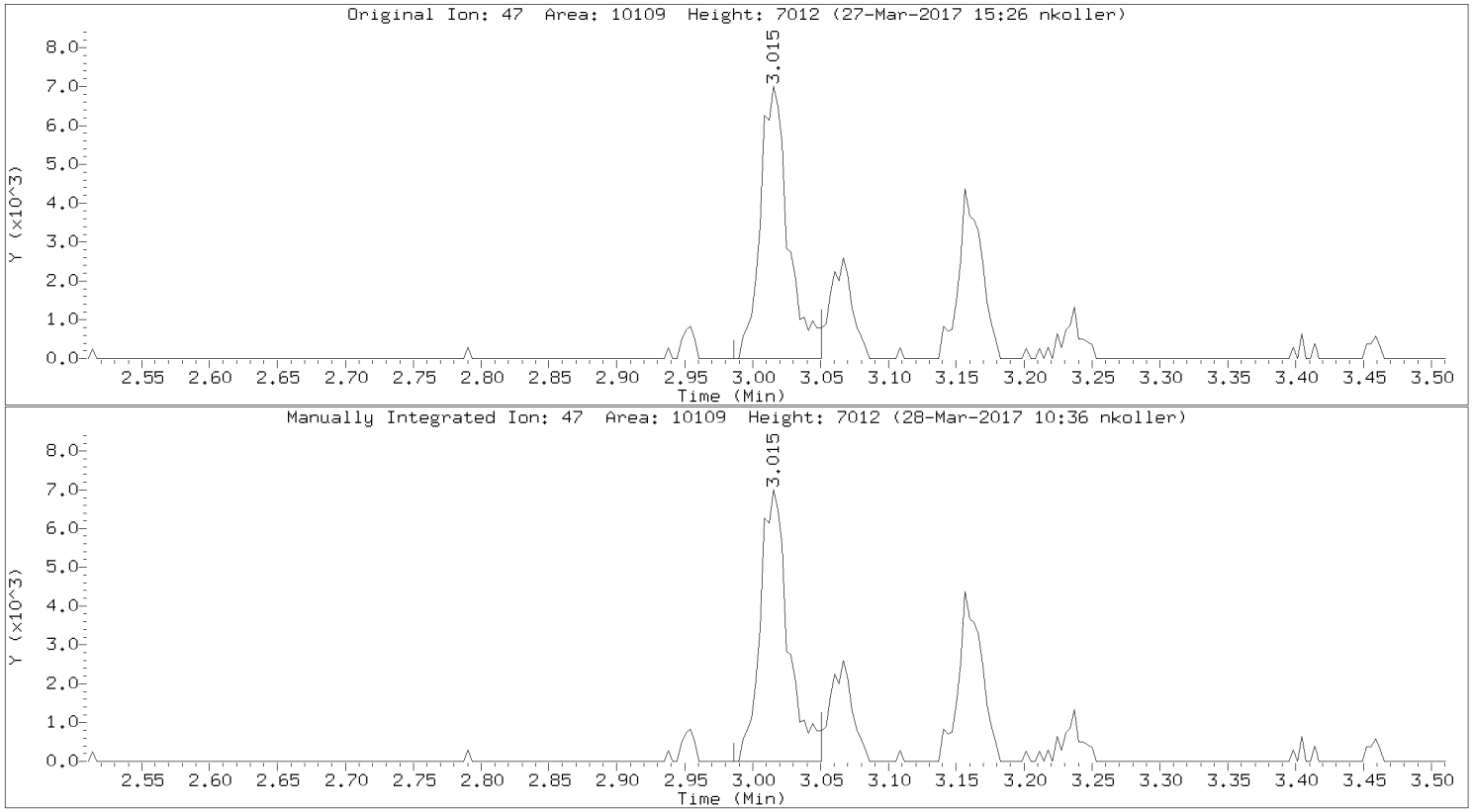








Data File: \\192.168.10.12\chem\10airB.i\032717.b/08612.D
Injection Date: 27-MAR-2017 14:03
Instrument: 10airB.i
Lab Sample ID: cal3



Data File: \\192.168.10.12\chem\10airB.i\032717.b\08613.D
Report Date: 28-Mar-2017 10:38

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08613.D
Lab Smp Id: cal4
Inj Date : 27-MAR-2017 14:31
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 28-Mar-2017 10:38 10airB.i Quant Type: ISTD
Cal Date : 27-MAR-2017 14:03 Cal File: 08612.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.931	2.931	(0.524)	42629	1.00000	0.931
2	1,1-Difluoroethane	65	2.999	2.999	(0.536)	32707	1.00000	1.01(Q)
3	Chlorodifluoromethane	67	3.015	3.015	(0.539)	15042	1.00000	1.03(Q)
4	Propylene	41	3.015	3.015	(0.539)	43463	1.00000	1.02
5	Dichlorodifluoromethane	85	3.047	3.047	(0.544)	156732	1.00000	1.00
6	Chloromethane	50	3.144	3.144	(0.562)	64837	1.00000	1.00
7	Dichlorotetrafluoroethane	85	3.147	3.147	(0.562)	149577	1.00000	1.07
8	Vinyl chloride	62	3.221	3.221	(0.575)	52829	1.00000	0.990
9	1,3-Butadiene	54	3.256	3.256	(0.582)	40806	1.00000	1.01
10	Bromomethane	94	3.394	3.394	(0.607)	44742	1.00000	1.05
11	Chloroethane	64	3.443	3.443	(0.615)	22713	1.00000	1.01
12	Ethanol	45	3.529	3.529	(0.631)	91568	5.00000	4.86
13	Vinyl Bromide	106	3.558	3.558	(0.636)	44373	1.00000	1.03
14	Isopentane	43	3.574	3.574	(0.639)	55633	1.00000	1.04
15	Freon 123	83	3.600	3.600	(0.643)	80635	1.00000	1.05(M)
16	Trichlorofluoromethane	101	3.648	3.648	(0.652)	114988	1.00000	1.05
17	Acrolein	56	3.665	3.665	(0.655)	43589	2.50000	2.53(M)
18	Acetone	43	3.703	3.703	(0.662)	387851	5.00000	5.22
19	Isopropyl Alcohol	45	3.748	3.748	(0.670)	440157	5.00000	5.26
20	1,1-Dichloroethene	61	3.886	3.886	(0.694)	78459	1.00000	1.02
21	Acrylonitrile	53	3.902	3.902	(0.697)	97434	2.50000	2.57
22	Freon 113	101	3.928	3.928	(0.702)	93720	1.00000	1.06
23	Methyl Acetate	43	3.938	3.938	(0.704)	128974	1.00000	1.06

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08613.D
Report Date: 28-Mar-2017 10:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.941	3.941	(0.704)	283383	2.50000	2.67
	25 Methylene chloride	49	3.980	3.980	(0.711)	301186	5.00000	5.29
	26 Allyl Chloride	76	3.992	3.992	(0.713)	43855	2.50000	2.92
	27 Carbon Disulfide	76	4.102	4.102	(0.733)	101348	1.00000	1.01(M)
	28 trans-1,2-dichloroethene	96	4.250	4.250	(0.759)	43407	1.00000	1.01
	29 Methyl Tert Butyl Ether	73	4.298	4.298	(0.768)	301969	2.50000	2.63
	30 Vinyl Acetate	43	4.372	4.372	(0.781)	126043	1.00000	1.01
	31 1,1-Dichloroethane	63	4.385	4.385	(0.783)	88037	1.00000	1.05
$	32 Hexane-d14(S)	66	4.475	4.475	(0.800)	1040225	10.0000	9.75
	33 Methyl Ethyl Ketone	72	4.546	4.546	(0.812)	21338	1.00000	0.937(Q)
	34 n-Hexane	57	4.571	4.571	(0.817)	84223	1.00000	1.00(QM)
	35 Di-isopropyl Ether	45	4.591	4.591	(0.820)	165198	1.00000	1.00
	36 Ethyl Acetate	43	4.706	4.706	(0.841)	104746	1.00000	0.970
	37 cis-1,2-Dichloroethene	96	4.703	4.703	(0.840)	47867	1.00000	1.01
	38 Ethyl Tert-Butyl Ether	59	4.819	4.819	(0.861)	405667	2.50000	2.42
	39 Chloroform	83	4.819	4.819	(0.861)	87207	1.00000	0.932
	40 Tetrahydrofuran	42	4.992	4.992	(0.892)	62308	1.00000	0.958
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	123533	1.00000	1.02
	42 1,2-Dichloroethane	62	5.221	5.221	(0.933)	95045	1.00000	1.02
	43 Benzene	78	5.446	5.446	(0.973)	167890	1.00000	1.02
	44 Carbon tetrachloride	117	5.465	5.465	(0.976)	124379	1.00000	1.06
	45 Cyclohexane	56	5.472	5.472	(0.978)	97340	1.00000	1.03
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(1.001)	186304	1.00000	0.935
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	2844476	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.754	(1.028)	767579	2.50000	2.67
	49 Heptane	43	5.877	5.877	(1.050)	106107	1.00000	1.02
	50 1,2-Dichloropropane	63	5.951	5.951	(1.063)	64562	1.00000	1.00
	51 Trichloroethene	130	5.973	5.973	(1.067)	87154	1.00000	1.01
	52 Methyl methacrylate	69	6.037	6.037	(1.079)	56985	1.00000	0.972
	53 1,4-Dioxane	88	6.070	6.070	(1.084)	38148	1.00000	0.952
	54 Bromodichloromethane	83	6.070	6.070	(1.084)	117457	1.00000	1.03
	55 Methylcyclohexane	98	6.420	6.420	(1.147)	46986	1.00000	0.968(Q)
	56 Methyl Isobutyl Ketone	43	6.526	6.526	(1.166)	366117	2.50000	2.60
	57 cis-1,3-Dichloropropene	75	6.578	6.578	(1.175)	90873	1.00000	0.980
	58 trans-1,3-Dichloropropene	75	6.976	6.976	(1.246)	80369	1.00000	0.977
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	2347006	10.0000	9.79
	60 1,1,2-Trichloroethane	97	7.131	7.131	(1.274)	67948	1.00000	0.993
	61 Toluene	91	7.140	7.140	(1.276)	206248	1.00000	1.03
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.854)	299377	2.50000	2.49
	63 n-Octane	43	7.574	7.574	(0.877)	136642	1.00000	1.02
	64 Dibromochloromethane	129	7.664	7.664	(0.888)	119826	1.00000	1.01
	65 1,2-Dibromoethane	107	7.899	7.899	(0.915)	107053	1.00000	1.00
	66 Tetrachloroethene	166	7.979	7.979	(0.924)	115712	1.00000	1.03
*	67 Chlorobenzene - d5	117	8.635	8.635	(1.000)	1712714	10.0000	
	68 Chlorobenzene	112	8.677	8.677	(1.005)	162378	1.00000	0.998
	69 Ethyl Benzene	91	8.925	8.925	(1.034)	259425	1.00000	1.03
	70 m&p-Xylene	91	9.076	9.076	(1.051)	404151	2.00000	2.11
	71 n-Nonane	43	9.468	9.468	(1.096)	124959	1.00000	1.05
	72 Bromoform	173	9.471	9.471	(1.097)	90856	1.00000	0.993
	73 Styrene	104	9.500	9.500	(1.100)	140579	1.00000	0.998
	74 o-Xylene	91	9.571	9.571	(1.108)	201455	1.00000	1.02
	75 1,1,2,2-Tetrachloroethane	83	9.825	9.825	(1.138)	104195	1.00000	0.976
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	270646	1.00000	1.01
	77 N-Propylbenzene	91	10.735	10.735	(1.243)	287578	1.00000	1.03

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08613.D
Report Date: 28-Mar-2017 10:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	241190	1.00000	1.01
79	1,3,5-Trimethylbenzene	105	10.992	10.992	(1.273)	212387	1.00000	1.02
80	n-Decane	57	11.375	11.375	(2.032)	119627	1.00000	0.971
81	Tert-Butyl Benzene	119	11.491	11.491	(1.331)	227147	1.00000	1.02
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	189523	1.00000	1.02
83	1,3-Dichlorobenzene	146	11.793	11.793	(1.366)	100283	1.00000	0.865
84	Sec- Butylbenzene	105	11.799	11.799	(1.366)	273125	1.00000	1.04
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.847	(1.372)	795122	10.0000	9.78
86	Benzyl Chloride	91	11.860	11.860	(1.373)	71788	1.00000	0.737
87	1,4-Dichlorobenzene	146	11.880	11.880	(1.376)	96580	1.00000	0.800
88	p-Isopropyltoluene	119	11.983	11.983	(1.388)	220539	1.00000	0.994
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	177871	1.00000	0.994
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.422)	88314	1.00000	0.788
91	N-Butylbenzene	91	12.455	12.455	(1.442)	139927	1.00000	0.747
92	1,2-Dibromo-3-Chloropropane	157	12.909	12.909	(1.495)	21543	1.00000	0.760
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.625)	9982	1.00000	0.741
94	Naphthalene	128	14.172	14.172	(1.641)	37941	1.00000	0.871
95	Hexachlorobutadiene	225	14.410	14.410	(1.669)	37862	1.00000	1.03

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08613.D
Report Date: 28-Mar-2017 10:38

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08613.D
Lab Smp Id: cal4
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info:

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2844476	0.45
67 Chlorobenzene - d	1804482	1082689	2526275	1712714	-5.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08613.D

Date : 27-MAR-2017 14:31

Client ID:

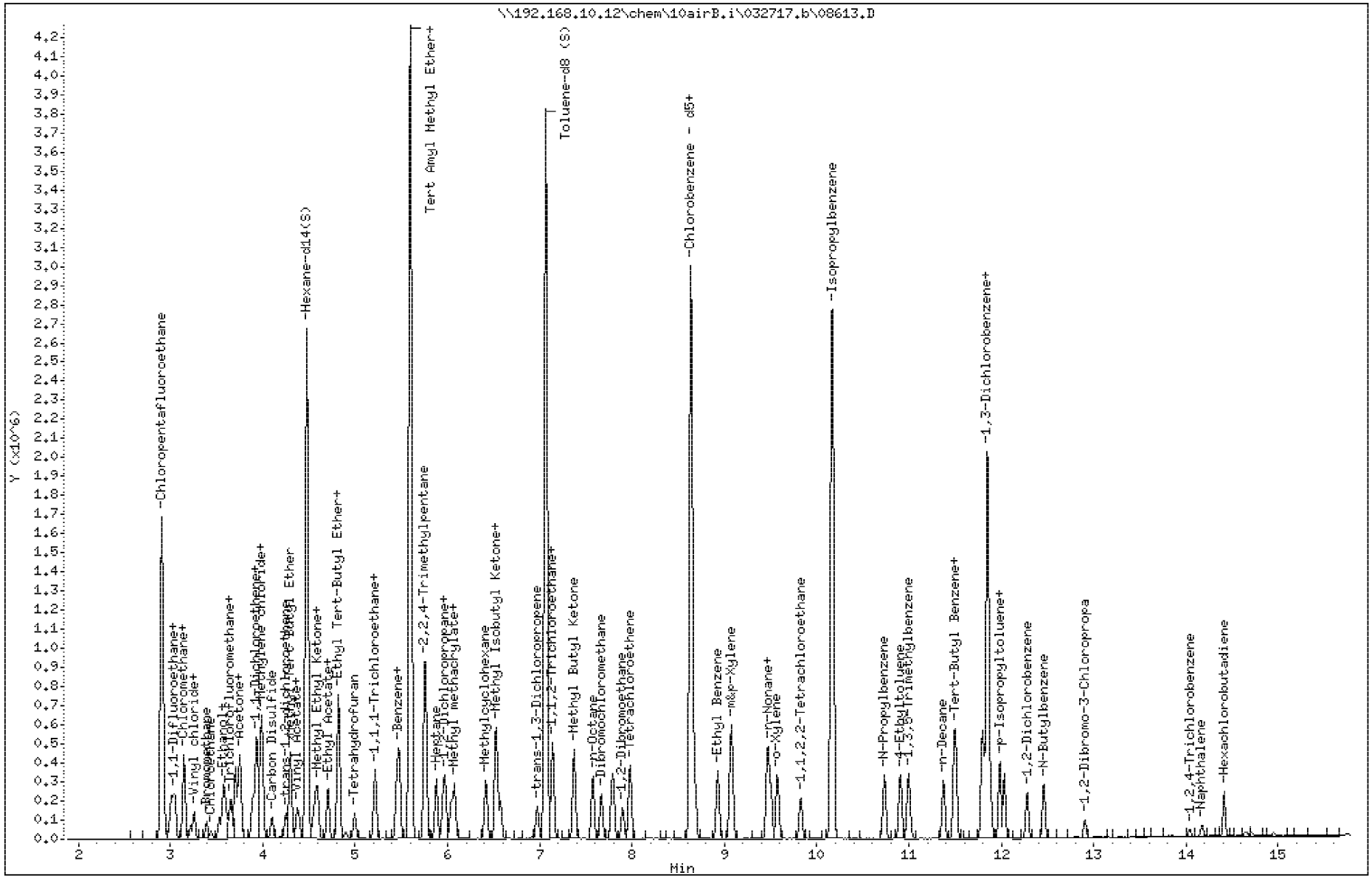
Instrument: 10airB.i

Sample Info:

Operator: NCK

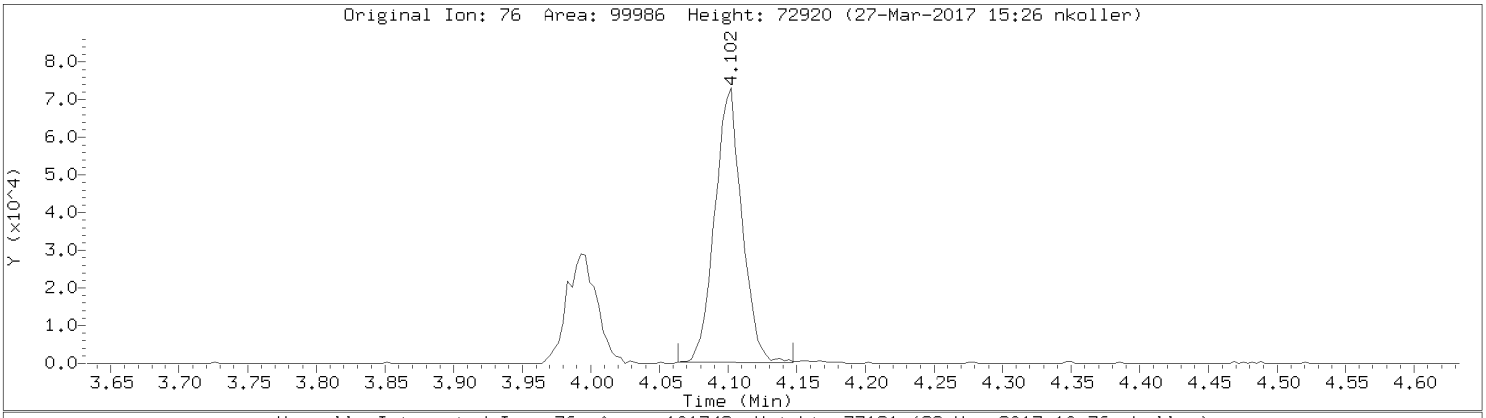
Column phase: J&W DB-5

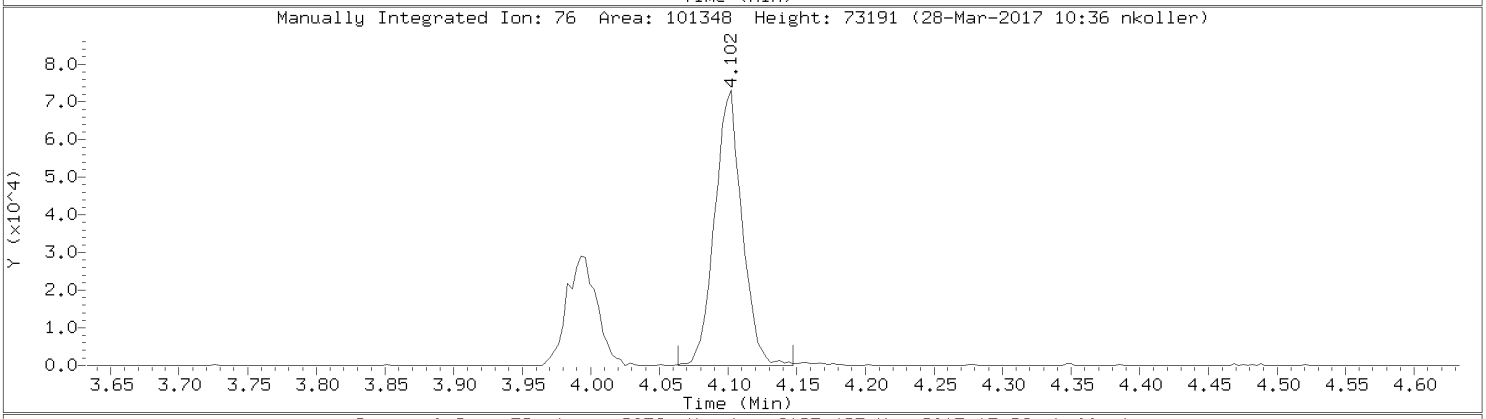
Column diameter: 0.32

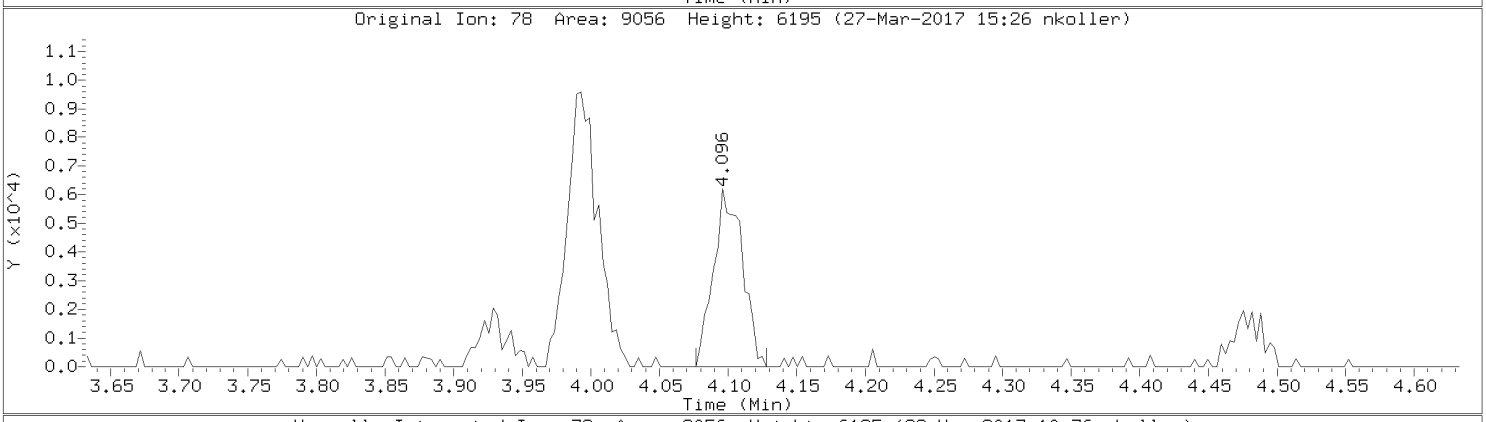


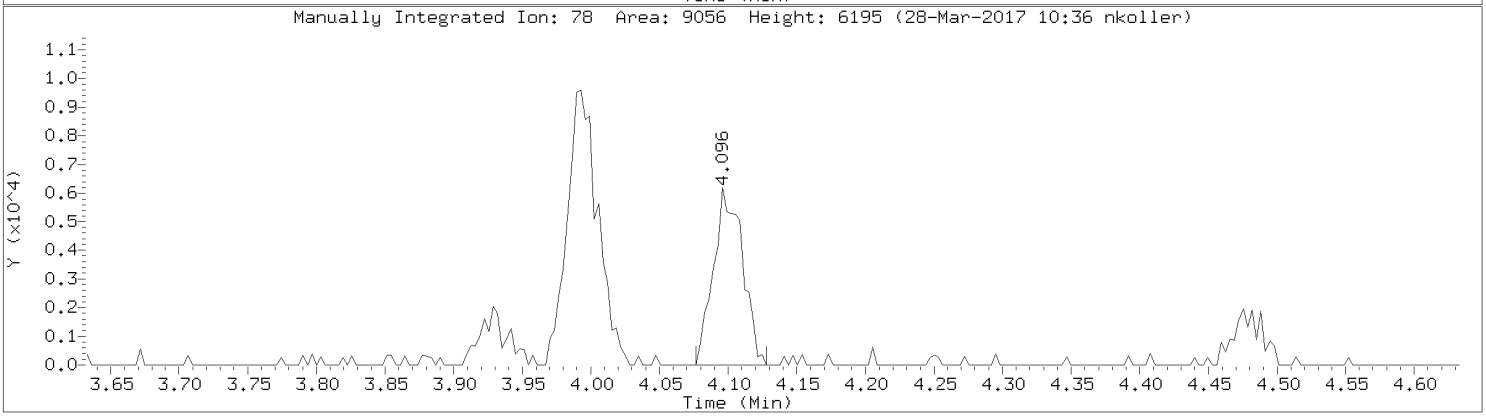
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08613.D
Injection Date: 27-MAR-2017 14:31
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Carbon Disulfide
CAS Number: 75-15-0



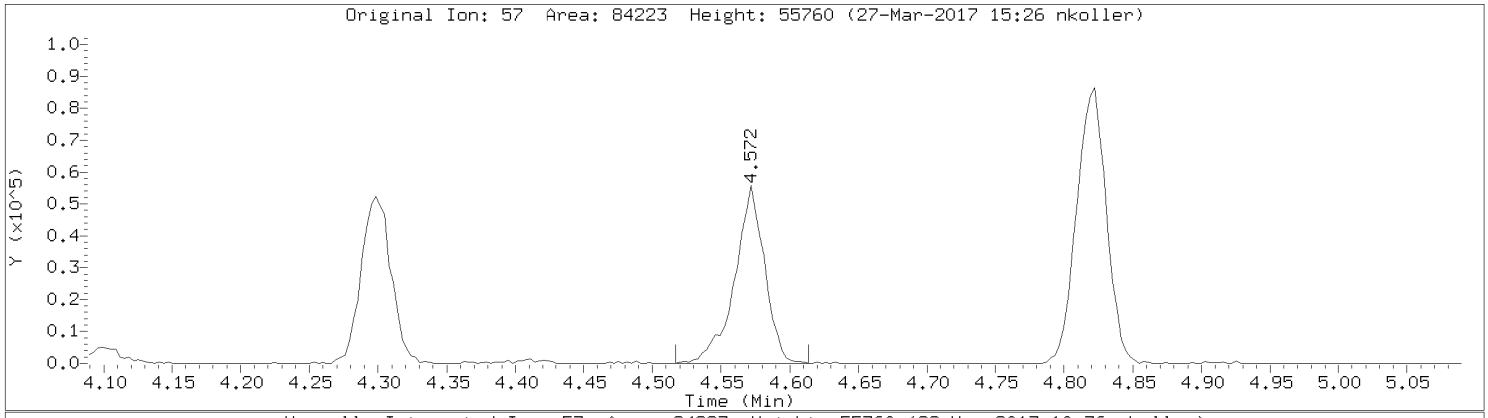


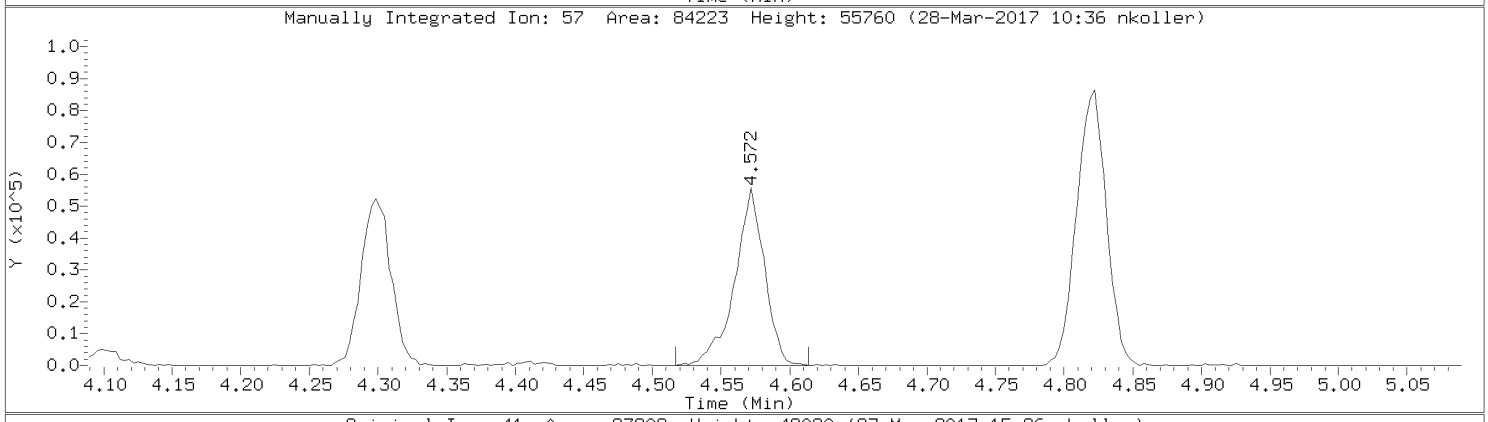


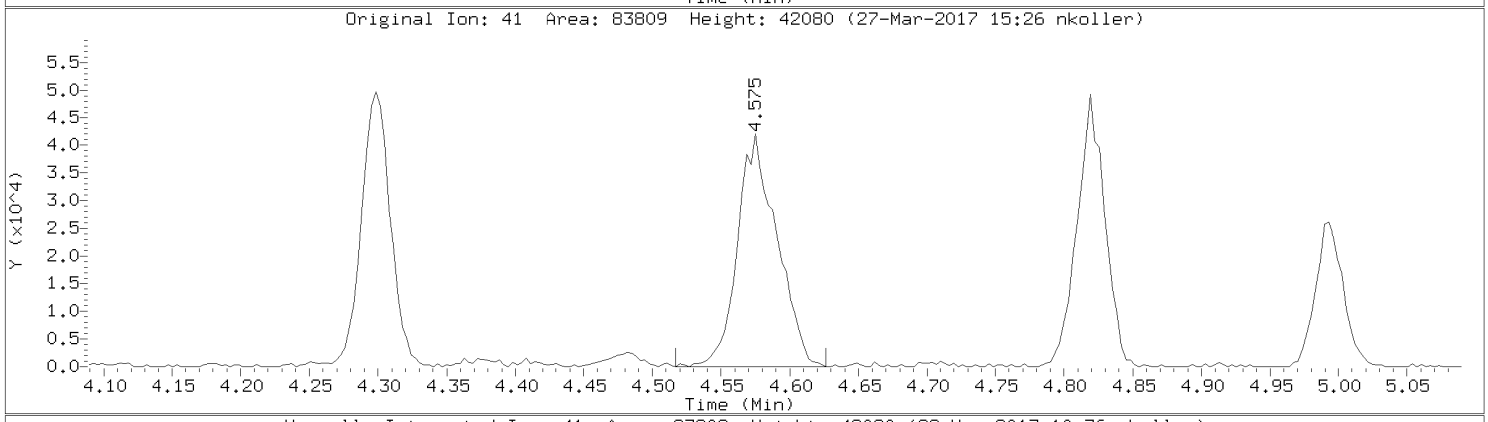


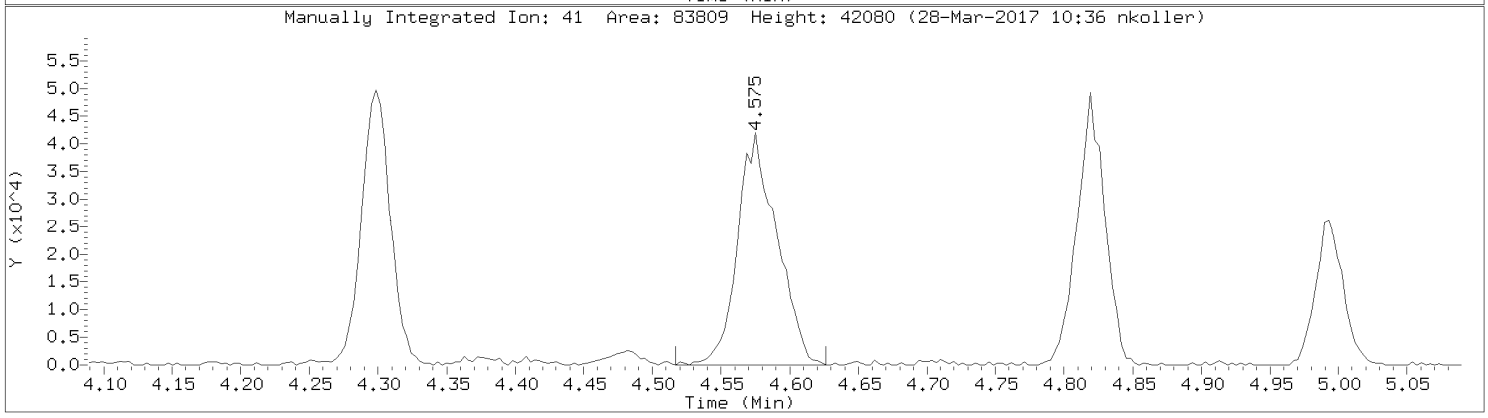
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08613.D
Injection Date: 27-MAR-2017 14:31
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: n-Hexane
CAS Number: 110-54-3

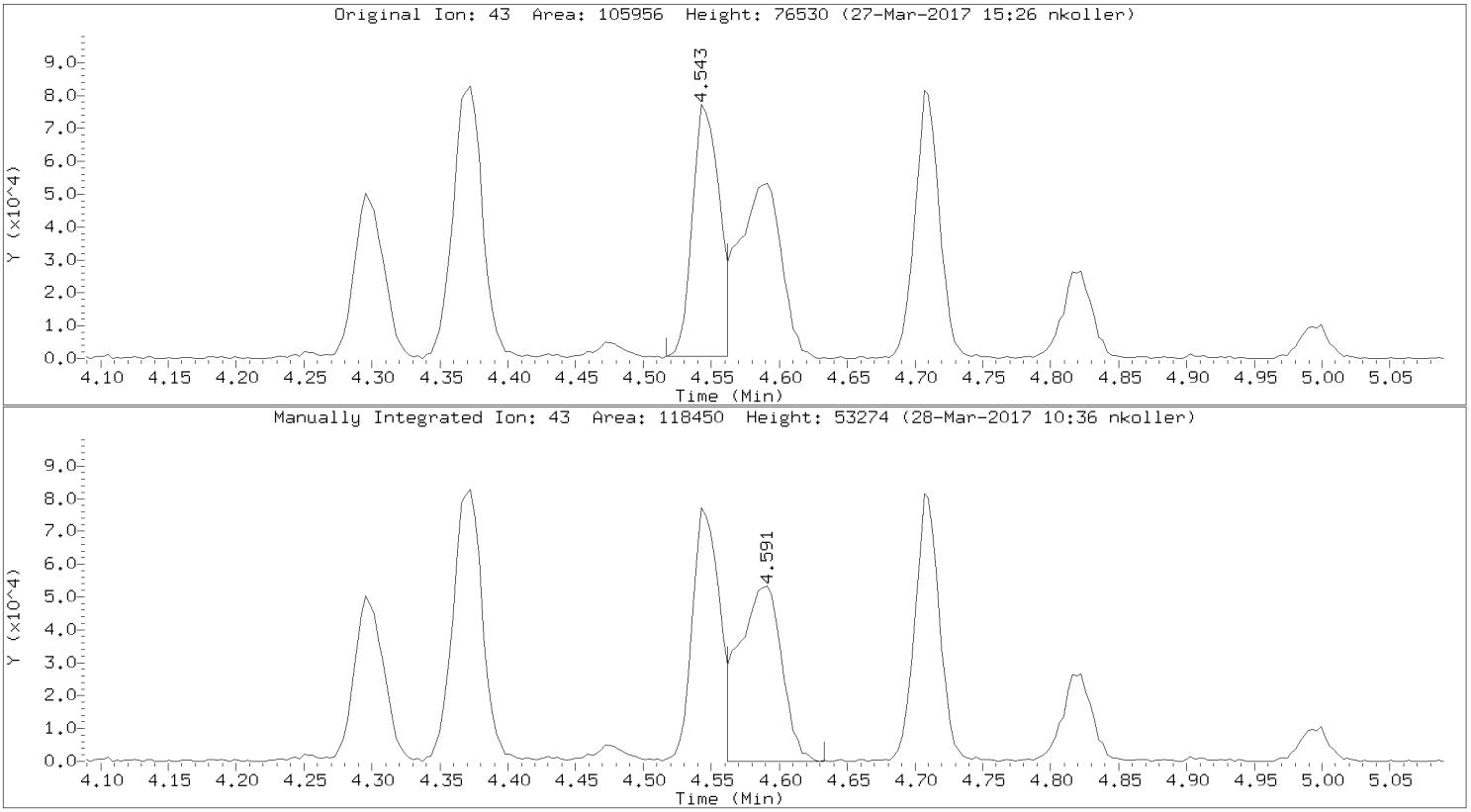






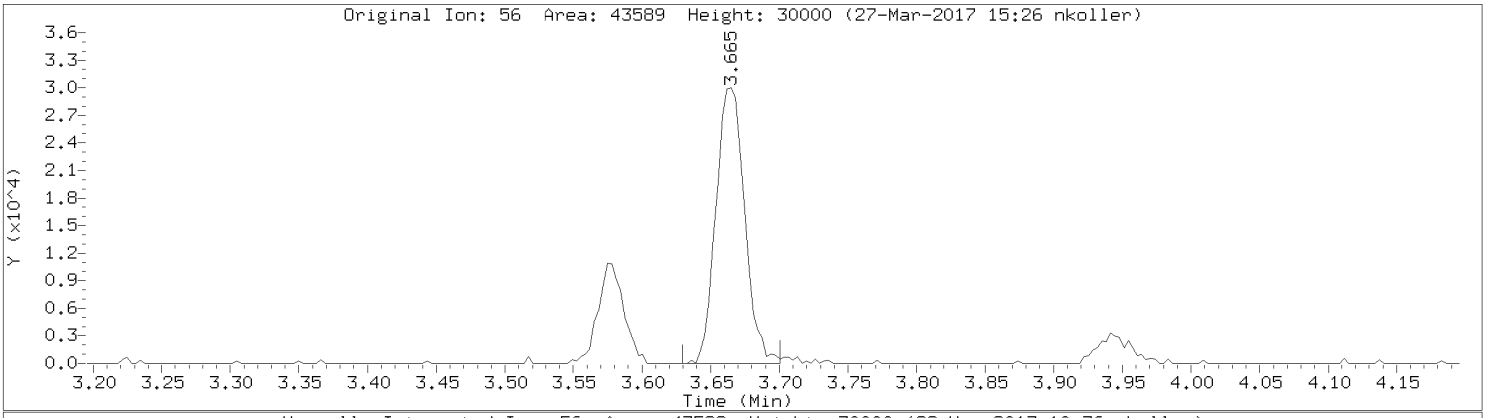


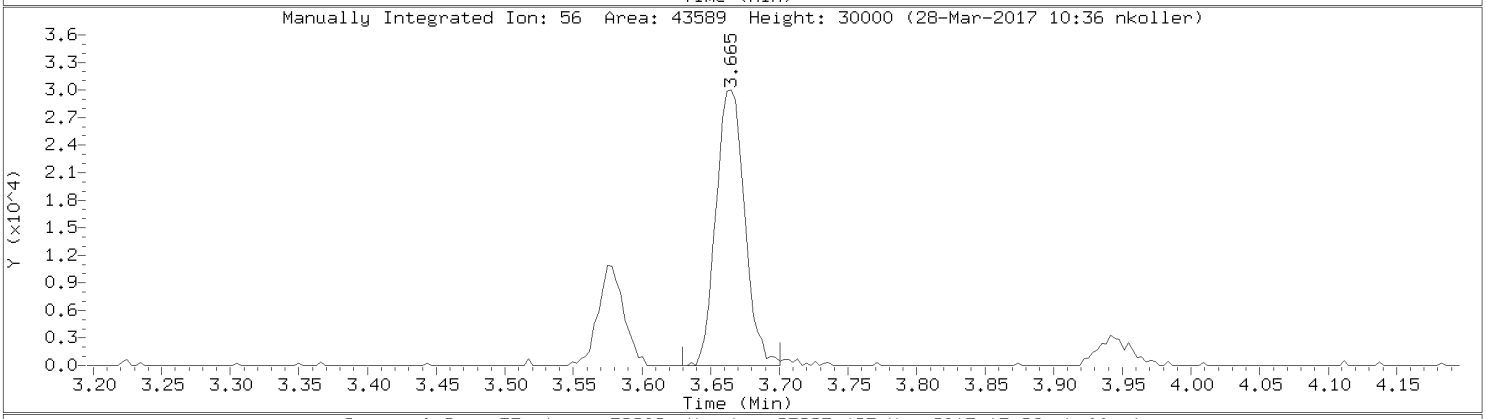
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08613.D
Injection Date: 27-MAR-2017 14:31
Instrument: 10airB.i
Lab Sample ID: cal4

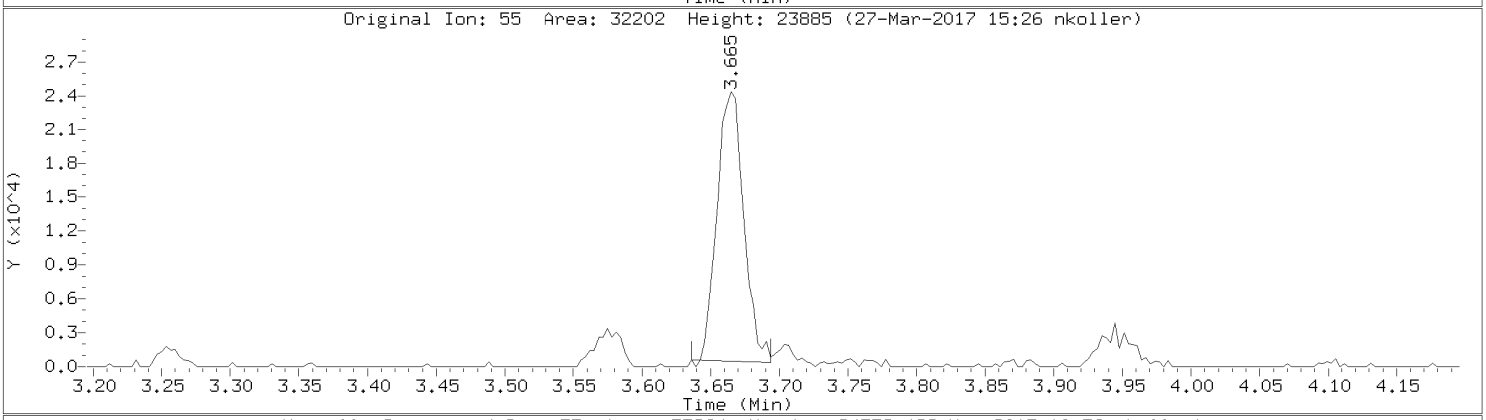


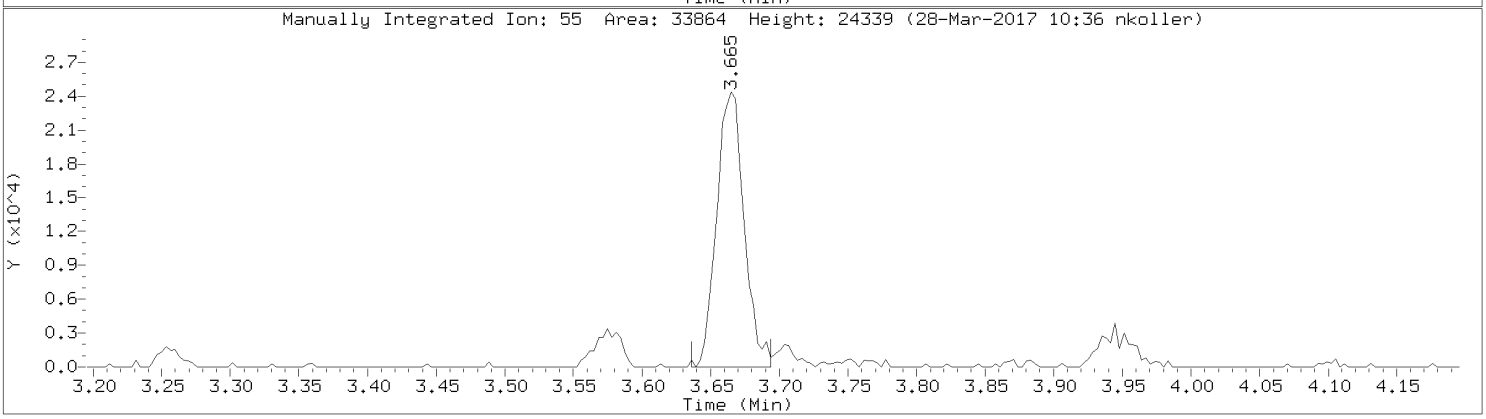
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08613.D
Injection Date: 27-MAR-2017 14:31
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Acrolein
CAS Number: 107-02-08



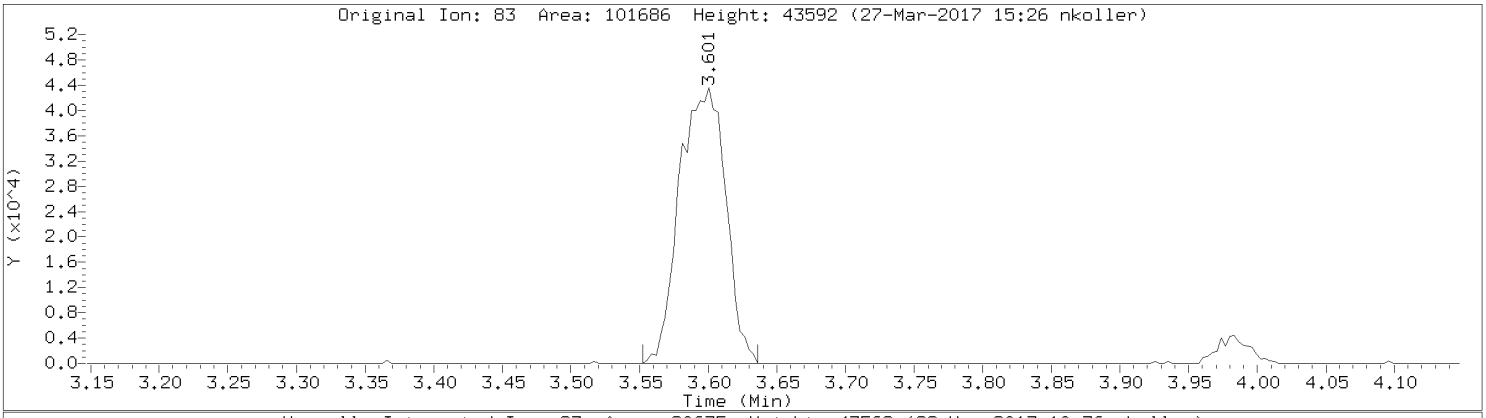


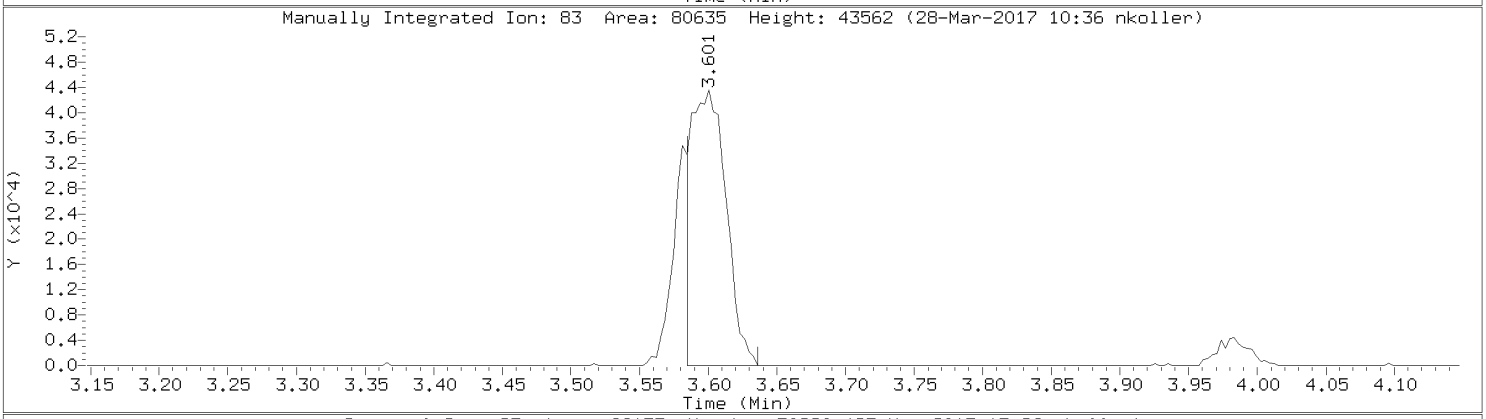


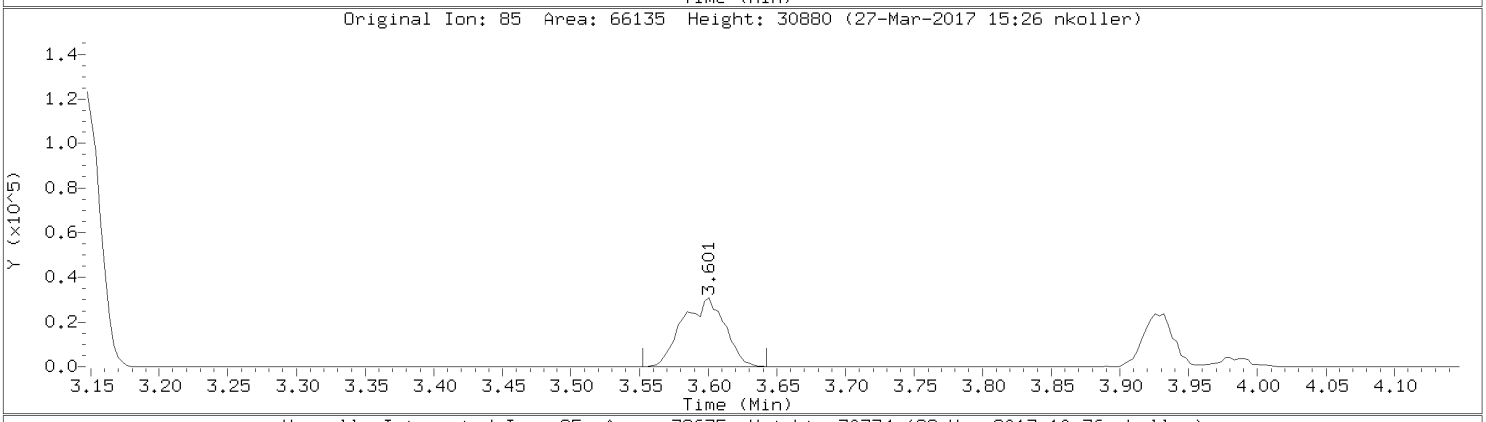


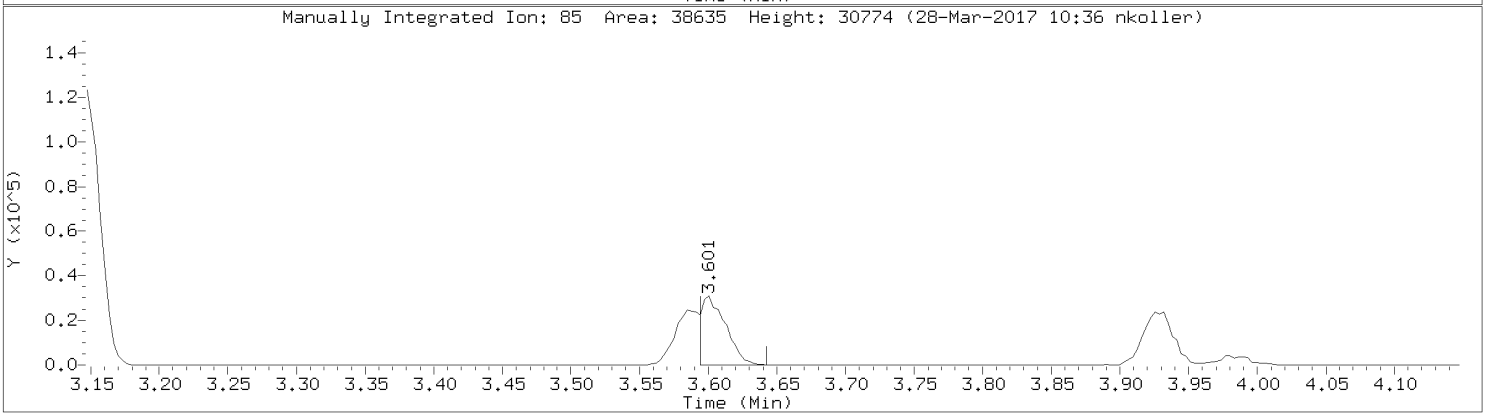
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08613.D
Injection Date: 27-MAR-2017 14:31
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Freon 123
CAS Number: 306-83-2

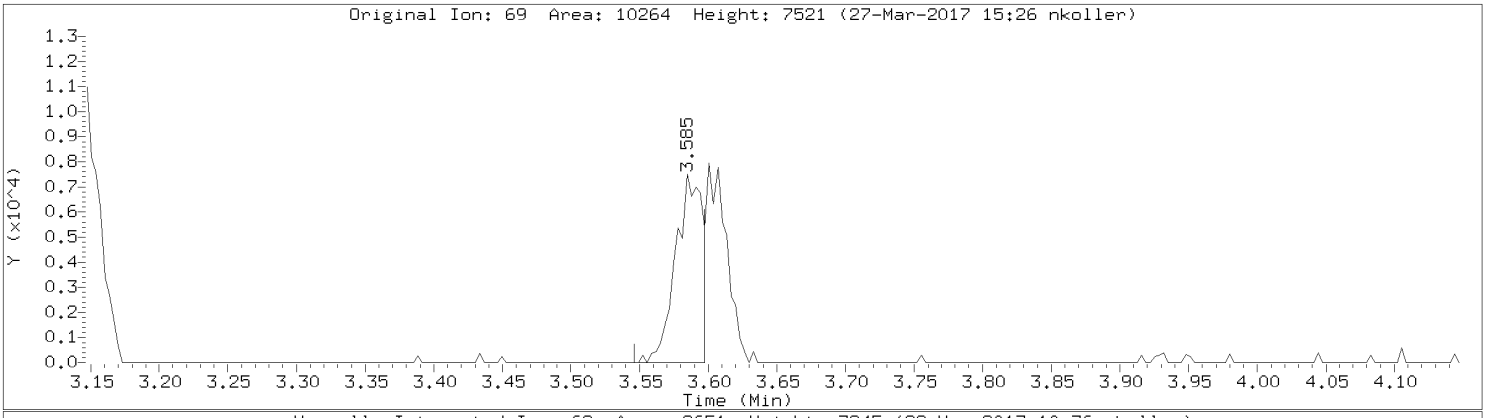


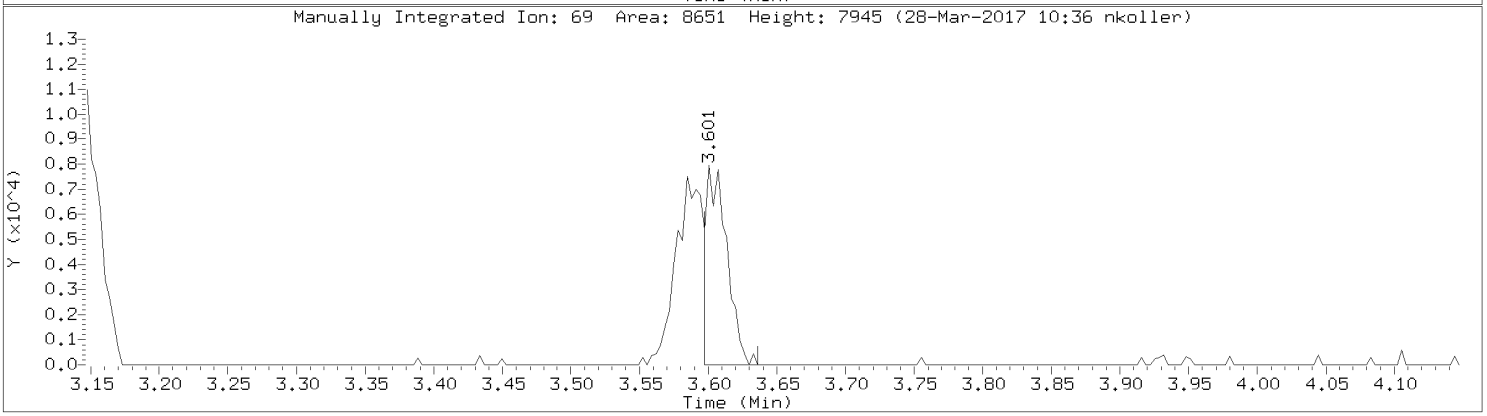






Data File: \\192.168.10.12\chem\10airB.i\032717.b/08613.D
Injection Date: 27-MAR-2017 14:31
Instrument: 10airB.i
Lab Sample ID: cal4





Data File: \\192.168.10.12\chem\10airB.i\032717.b\08614.D
Report Date: 28-Mar-2017 10:38

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08614.D
Lab Smp Id: cal5
Inj Date : 27-MAR-2017 14:58
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 28-Mar-2017 10:38 10airB.i Quant Type: ISTD
Cal Date : 27-MAR-2017 14:31 Cal File: 08613.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.934	2.934	(0.523)	322987	10.0000	10.0
2	1,1-Difluoroethane	65	3.005	3.005	(0.536)	339401	10.0000	10.5
3	Chlorodifluoromethane	67	3.018	3.018	(0.538)	154616	10.0000	10.7
4	Propylene	41	3.015	3.015	(0.537)	410459	10.0000	9.70
5	Dichlorodifluoromethane	85	3.050	3.050	(0.544)	1520466	10.0000	9.75
6	Chloromethane	50	3.147	3.147	(0.561)	674511	10.0000	10.5
7	Dichlorotetrafluoroethane	85	3.156	3.156	(0.563)	1444185	10.0000	10.4
8	Vinyl chloride	62	3.224	3.224	(0.575)	566113	10.0000	10.7
9	1,3-Butadiene	54	3.266	3.266	(0.582)	430682	10.0000	10.7
10	Bromomethane	94	3.401	3.401	(0.606)	452370	10.0000	10.6
11	Chloroethane	64	3.455	3.455	(0.616)	245754	10.0000	10.9
12	Ethanol	45	3.539	3.539	(0.631)	978613	50.0000	52.1
13	Vinyl Bromide	106	3.574	3.574	(0.637)	449789	10.0000	10.5
14	Isopentane	43	3.590	3.590	(0.640)	539911	10.0000	10.1
15	Freon 123	83	3.626	3.626	(0.646)	647630	10.0000	10.2(H)
16	Trichlorofluoromethane	101	3.668	3.668	(0.654)	1174043	10.0000	10.8
17	Acrolein	56	3.677	3.677	(0.656)	453898	25.0000	26.5
18	Acetone	43	3.716	3.716	(0.662)	3738397	50.0000	50.5
19	Isopropyl Alcohol	45	3.761	3.761	(0.670)	4220083	50.0000	50.7
20	1,1-Dichloroethene	61	3.906	3.906	(0.696)	803453	10.0000	10.5
21	Acrylonitrile	53	3.925	3.925	(0.700)	1005255	25.0000	26.6
22	Freon 113	101	3.944	3.944	(0.703)	898694	10.0000	10.3
23	Methyl Acetate	43	3.954	3.954	(0.705)	1222517	10.0000	10.0

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08614.D
Report Date: 28-Mar-2017 10:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.951	3.951	(0.704)	2631516	25.0000	24.9
	25 Methylene chloride	49	3.999	3.999	(0.713)	2818080	50.0000	49.7
	26 Allyl Chloride	76	4.015	4.015	(0.716)	348277	25.0000	23.3
	27 Carbon Disulfide	76	4.118	4.118	(0.734)	1054845	10.0000	10.5
	28 trans-1,2-dichloroethene	96	4.272	4.272	(0.762)	442719	10.0000	10.3
	29 Methyl Tert Butyl Ether	73	4.298	4.298	(0.766)	2936202	25.0000	25.7
	30 Vinyl Acetate	43	4.385	4.385	(0.782)	1281223	10.0000	10.3
	31 1,1-Dichloroethane	63	4.407	4.407	(0.786)	875156	10.0000	10.5
$	32 Hexane-d14(S)	66	4.484	4.484	(0.799)	1056266	10.0000	9.94
	33 Methyl Ethyl Ketone	72	4.549	4.549	(0.811)	209905	10.0000	9.26
	34 n-Hexane	57	4.578	4.578	(0.816)	838422	10.0000	10.0(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.820)	1631742	10.0000	9.93
	36 Ethyl Acetate	43	4.713	4.713	(0.840)	1069030	10.0000	9.94
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	475136	10.0000	10.1
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.860)	4517357	25.0000	27.1
	39 Chloroform	83	4.838	4.838	(0.862)	1027192	10.0000	11.0
	40 Tetrahydrofuran	42	4.989	4.989	(0.889)	666258	10.0000	10.3
	41 1,1,1-Trichloroethane	97	5.227	5.227	(0.932)	1270518	10.0000	10.5
	42 1,2-Dichloroethane	62	5.237	5.237	(0.934)	957282	10.0000	10.3
	43 Benzene	78	5.462	5.462	(0.974)	1685216	10.0000	10.3
	44 Carbon tetrachloride	117	5.481	5.481	(0.977)	1283635	10.0000	11.0
	45 Cyclohexane	56	5.484	5.484	(0.978)	941381	10.0000	10.0
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.999)	1701309	10.0000	10.4
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	2831751	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.767	(1.028)	7230542	25.0000	25.3
	49 Heptane	43	5.889	5.889	(1.050)	1075228	10.0000	10.4
	50 1,2-Dichloropropane	63	5.967	5.967	(1.064)	672126	10.0000	10.5
	51 Trichloroethene	130	5.986	5.986	(1.067)	891256	10.0000	10.4
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	607184	10.0000	10.4
	53 1,4-Dioxane	88	6.063	6.063	(1.081)	412813	10.0000	10.4
	54 Bromodichloromethane	83	6.082	6.082	(1.084)	1277328	10.0000	11.2
	55 Methylcyclohexane	98	6.433	6.433	(1.147)	498495	10.0000	10.3
	56 Methyl Isobutyl Ketone	43	6.526	6.526	(1.163)	3646447	25.0000	26.0
	57 cis-1,3-Dichloropropene	75	6.584	6.584	(1.174)	1014817	10.0000	11.0
	58 trans-1,3-Dichloropropene	75	6.983	6.983	(1.245)	924741	10.0000	9.94
$	59 Toluene-d8 (S)	98	7.073	7.073	(1.261)	2440933	10.0000	10.2
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	716323	10.0000	10.5
	61 Toluene	91	7.150	7.150	(1.275)	2094466	10.0000	10.5
	62 Methyl Butyl Ketone	43	7.368	7.368	(0.853)	3355411	25.0000	26.4
	63 n-Octane	43	7.577	7.577	(0.877)	1426446	10.0000	10.1
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	1399724	10.0000	11.2
	65 1,2-Dibromoethane	107	7.905	7.905	(0.915)	1194827	10.0000	10.6
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	1132109	10.0000	9.58
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	1804482	10.0000	
	68 Chlorobenzene	112	8.683	8.683	(1.005)	1764320	10.0000	10.3
	69 Ethyl Benzene	91	8.934	8.934	(1.034)	2755299	10.0000	10.4
	70 m&p-Xylene	91	9.079	9.079	(1.051)	4156148	20.0000	20.6
	71 n-Nonane	43	9.468	9.468	(1.096)	1298892	10.0000	10.3
	72 Bromoform	173	9.478	9.478	(1.097)	1134492	10.0000	11.8
	73 Styrene	104	9.507	9.507	(1.100)	1609349	10.0000	10.8
	74 o-Xylene	91	9.577	9.577	(1.108)	2120955	10.0000	10.2
	75 1,1,2,2-Tetrachloroethane	83	9.825	9.825	(1.137)	1217718	10.0000	10.8
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	2873558	10.0000	10.2
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	3259475	10.0000	11.0

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08614.D
Report Date: 28-Mar-2017 10:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.263)	2772093	10.0000	11.0
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.273)	2347286	10.0000	10.6
80	n-Decane	57	11.378	11.378	(2.028)	1378802	10.0000	11.2
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2420994	10.0000	10.3
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	2129907	10.0000	10.9
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.365)	1348695	10.0000	9.93
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	3024613	10.0000	10.9
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.372)	962958	10.0000	11.2
86	Benzyl Chloride	91	11.863	11.863	(1.373)	1380415	10.0000	9.91
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.376)	1333261	10.0000	10.3
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	2624155	10.0000	11.2
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	2081716	10.0000	11.0
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	1253138	10.0000	10.3
91	N-Butylbenzene	91	12.461	12.461	(1.442)	2003053	10.0000	10.6
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	428189	10.0000	9.87
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.624)	283452	10.0000	9.71
94	Naphthalene	128	14.169	14.169	(1.640)	768688	10.0000	9.76
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	406369	10.0000	10.5

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08614.D
Report Date: 28-Mar-2017 10:38

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08614.D
Lab Smp Id: cal5
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info:

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

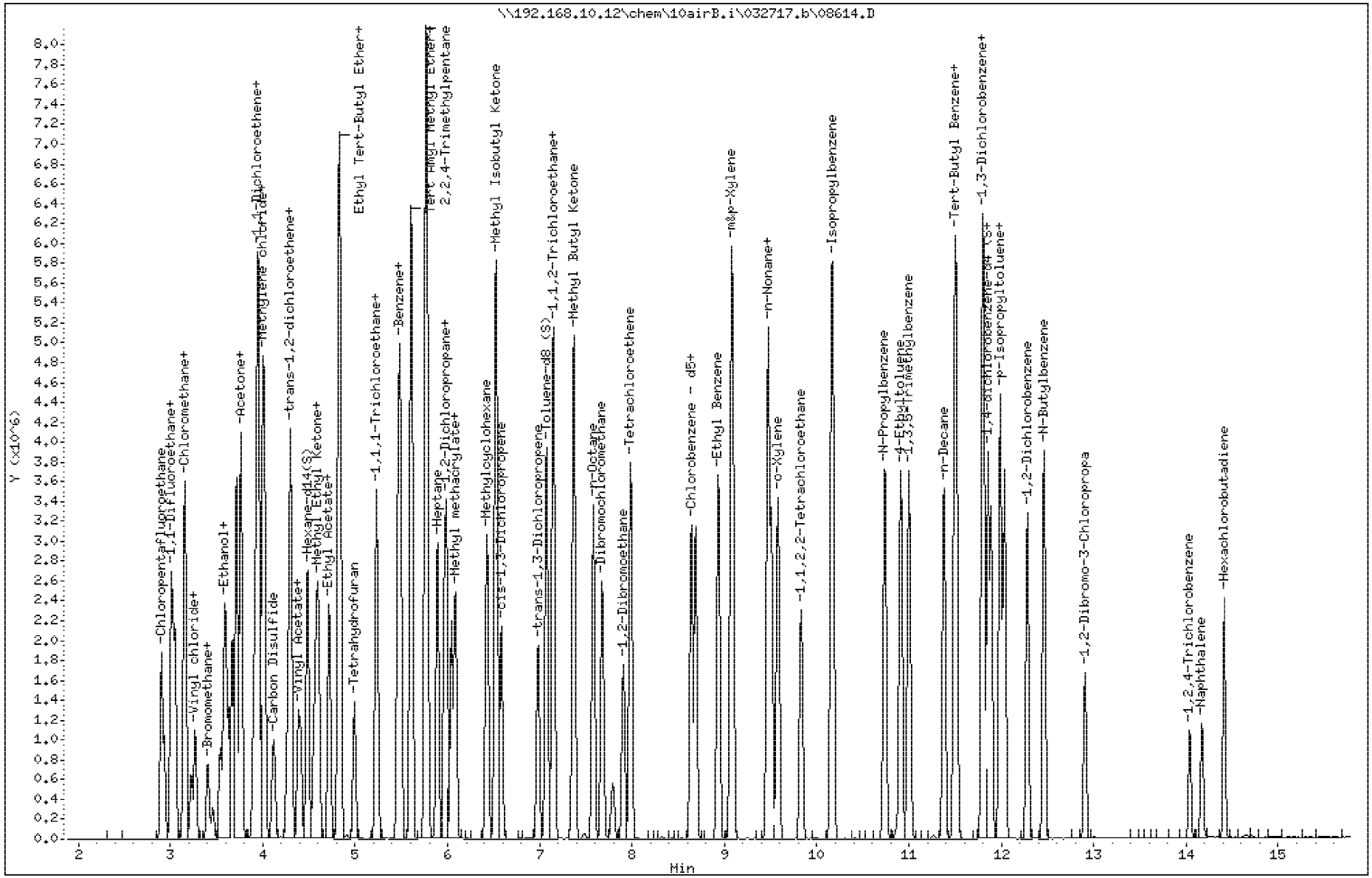
Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2831751	0.00
67 Chlorobenzene - d	1804482	1082689	2526275	1804482	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

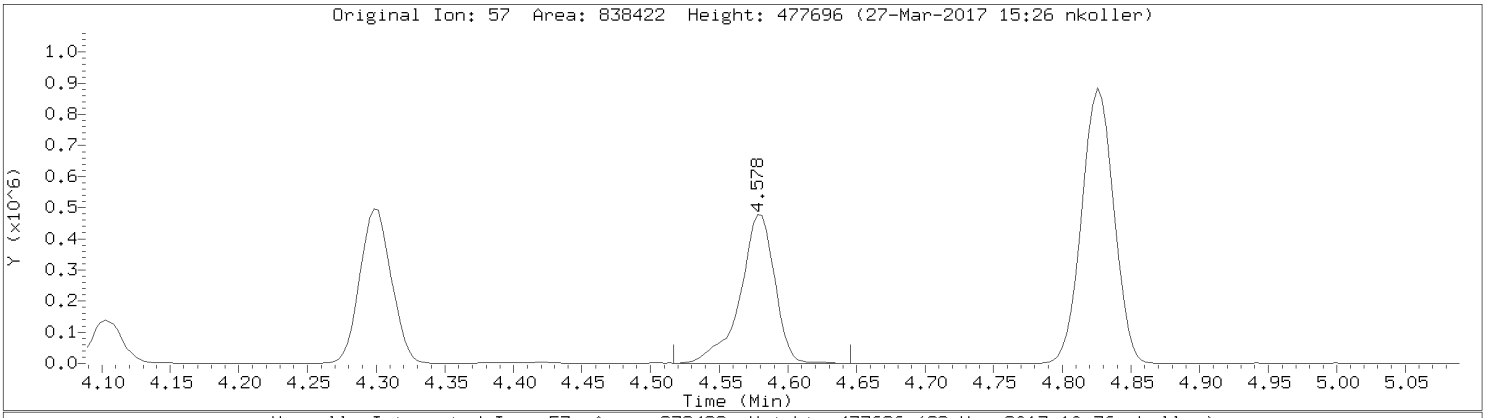
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

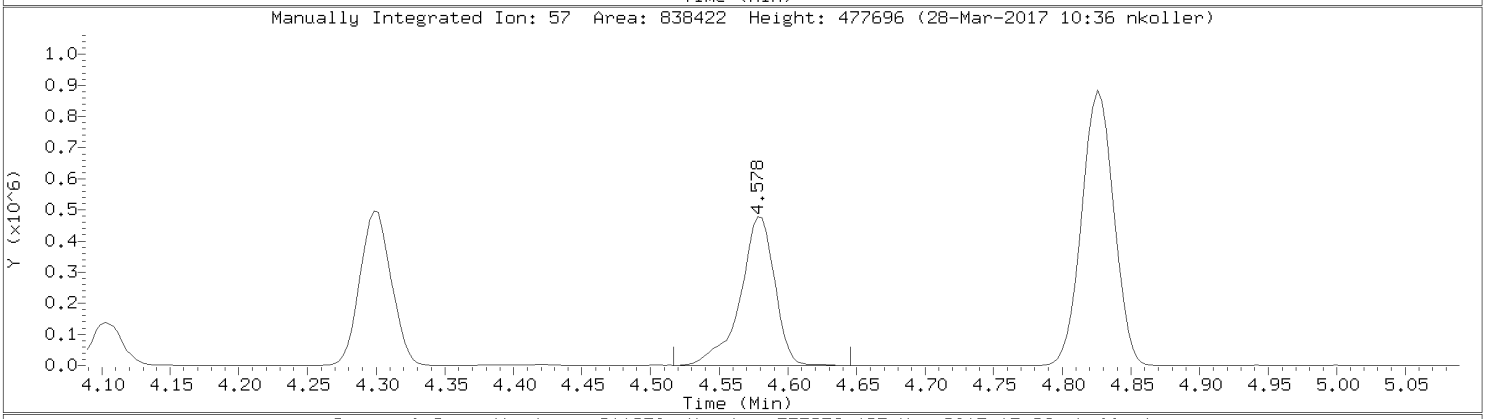
Data File: \\192.168.10.12\chem\10airB.i\032717.b\08614.D
Date : 27-MAR-2017 14:58
Client ID:
Instrument: 10airB.i
Sample Info:
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

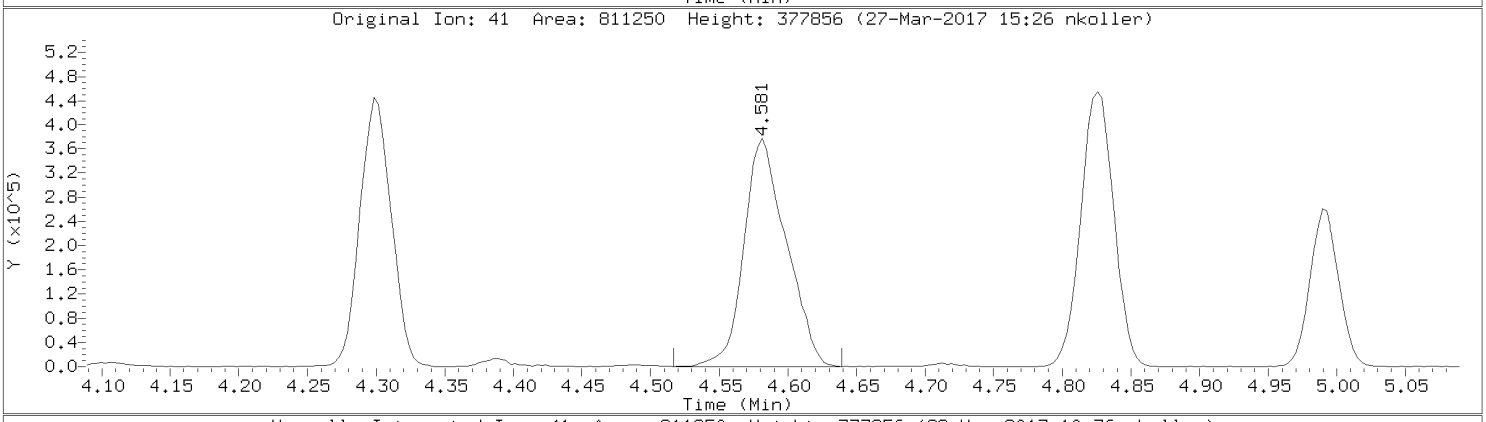


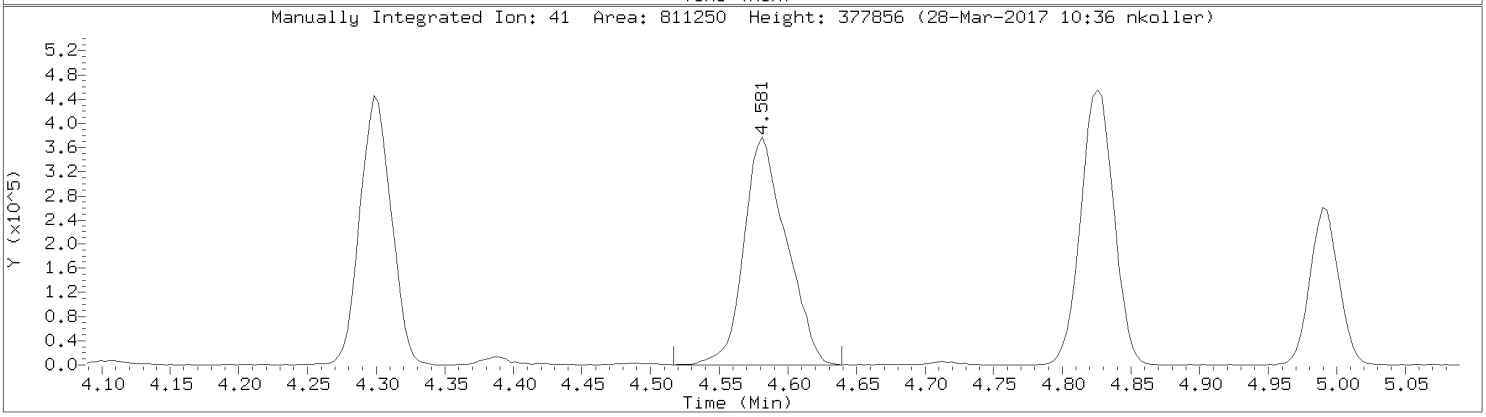
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08614.D
Injection Date: 27-MAR-2017 14:58
Instrument: 10airB.i
Lab Sample ID: cal5

Compound: n-Hexane
CAS Number: 110-54-3

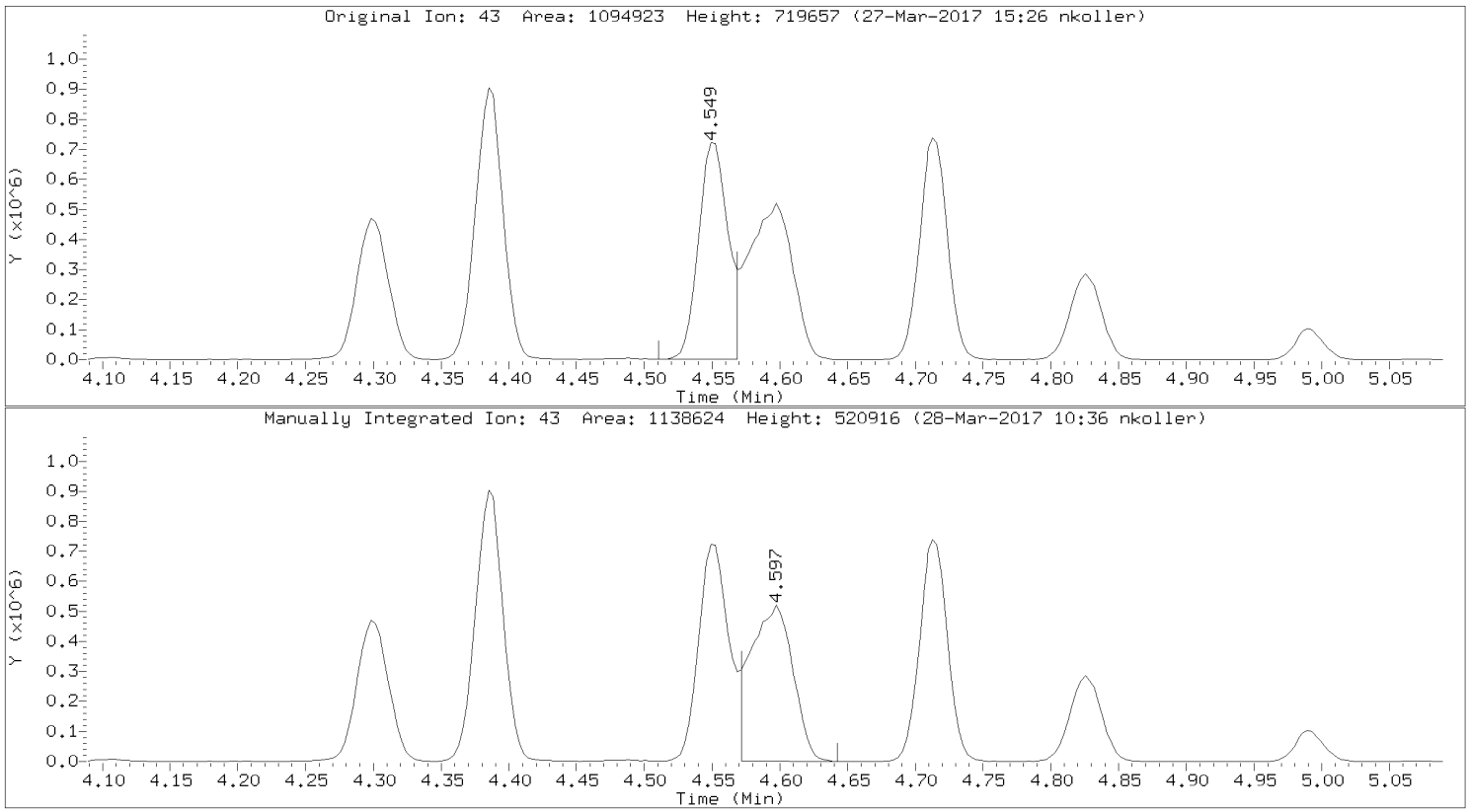








Data File: \\192.168.10.12\chem\10airB.i\032717.b/08614.D
Injection Date: 27-MAR-2017 14:58
Instrument: 10airB.i
Lab Sample ID: cal5



Data File: \\192.168.10.12\chem\10airB.i\032717.b\08615.D
Report Date: 28-Mar-2017 10:38

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08615.D
Lab Smp Id: cal6
Inj Date : 27-MAR-2017 15:27
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 28-Mar-2017 10:38 10airB.i Quant Type: ISTD
Cal Date : 27-MAR-2017 14:58 Cal File: 08614.D
Als bottle: 15 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.938	2.938	(0.523)	440639	20.0000	20.0
2	1,1-Difluoroethane	65	3.018	3.018	(0.537)	654942	20.0000	20.6
3	Chlorodifluoromethane	67	3.021	3.021	(0.538)	285824	20.0000	20.0(Q)
4	Propylene	41	3.025	3.025	(0.539)	771530	20.0000	18.5
5	Dichlorodifluoromethane	85	3.060	3.060	(0.545)	2847203	20.0000	18.5
6	Chloromethane	50	3.156	3.156	(0.562)	1272649	20.0000	20.1
7	Dichlorotetrafluoroethane	85	3.166	3.166	(0.564)	2698597	20.0000	19.7
8	Vinyl chloride	62	3.237	3.237	(0.576)	1089353	20.0000	20.8
9	1,3-Butadiene	54	3.279	3.279	(0.584)	831558	20.0000	21.0
10	Bromomethane	94	3.414	3.414	(0.608)	860799	20.0000	20.6
11	Chloroethane	64	3.468	3.468	(0.618)	477847	20.0000	21.6
12	Ethanol	45	3.549	3.549	(0.632)	1873419	100.000	101
13	Vinyl Bromide	106	3.584	3.584	(0.638)	842496	20.0000	20.0
14	Isopentane	43	3.603	3.603	(0.642)	1003084	20.0000	19.1
15	Freon 123	83	3.639	3.639	(0.648)	1135553	20.0000	19.7(H)
16	Trichlorofluoromethane	101	3.677	3.677	(0.655)	2182528	20.0000	20.3
17	Acrolein	56	3.687	3.687	(0.657)	844355	50.0000	50.0
18	Acetone	43	3.726	3.726	(0.663)	6850556	100.000	94.0
19	Isopropyl Alcohol	45	3.771	3.771	(0.671)	7580655	100.000	92.4
20	1,1-Dichloroethene	61	3.912	3.912	(0.697)	1518160	20.0000	20.1
21	Acrylonitrile	53	3.931	3.931	(0.700)	1841954	50.0000	49.5
22	Freon 113	101	3.954	3.954	(0.704)	1599342	20.0000	18.5
23	Methyl Acetate	43	3.963	3.963	(0.706)	2164465	20.0000	18.1

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08615.D
Report Date: 28-Mar-2017 10:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.960	3.960	(0.705)	4556501	50.0000	43.7
	25 Methylene chloride	49	4.005	4.005	(0.713)	5089315	100.000	91.1
	26 Allyl Chloride	76	4.021	4.021	(0.716)	632675	50.0000	42.9
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	2037565	20.0000	20.7
	28 trans-1,2-dichloroethene	96	4.279	4.279	(0.762)	831925	20.0000	19.7
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.766)	5362262	50.0000	47.7
	30 Vinyl Acetate	43	4.391	4.391	(0.782)	2498350	20.0000	20.4
	31 1,1-Dichloroethane	63	4.417	4.417	(0.786)	1659941	20.0000	20.2(H)
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	1066408	10.0000	10.2
	33 Methyl Ethyl Ketone	72	4.558	4.558	(0.812)	419469	20.0000	18.8
	34 n-Hexane	57	4.584	4.584	(0.816)	1578074	20.0000	19.1(M)
	35 Di-isopropyl Ether	45	4.607	4.607	(0.820)	3083786	20.0000	19.1
	36 Ethyl Acetate	43	4.719	4.719	(0.840)	2020110	20.0000	19.1
	37 cis-1,2-Dichloroethene	96	4.729	4.729	(0.842)	908955	20.0000	19.7
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.860)	7401762	50.0000	45.1
	39 Chloroform	83	4.848	4.848	(0.863)	1808666	20.0000	19.7
	40 Tetrahydrofuran	42	4.996	4.996	(0.889)	1282434	20.0000	20.1
	41 1,1,1-Trichloroethane	97	5.234	5.234	(0.932)	2333816	20.0000	19.6
	42 1,2-Dichloroethane	62	5.243	5.243	(0.934)	1773068	20.0000	19.4(H)
	43 Benzene	78	5.471	5.471	(0.974)	3134600	20.0000	19.5
	44 Carbon tetrachloride	117	5.488	5.488	(0.977)	2323199	20.0000	20.2
	45 Cyclohexane	56	5.494	5.494	(0.978)	1695055	20.0000	18.3
	46 Tert Amyl Methyl Ether	73	5.607	5.607	(0.998)	3164442	20.0000	19.9
*	47 1,4-Difluorobenzene	114	5.616	5.616	(1.000)	2788701	10.0000	
	48 2,2,4-Trimethylpentane	57	5.774	5.774	(1.028)	12136967	50.0000	43.1
	49 Heptane	43	5.896	5.896	(1.050)	2033868	20.0000	20.0
	50 1,2-Dichloropropane	63	5.970	5.970	(1.063)	1270995	20.0000	20.1
	51 Trichloroethene	130	5.989	5.989	(1.066)	1692934	20.0000	20.1
	52 Methyl methacrylate	69	6.047	6.047	(1.077)	1128539	20.0000	19.6
	53 1,4-Dioxane	88	6.070	6.070	(1.081)	771112	20.0000	19.6
	54 Bromodichloromethane	83	6.089	6.089	(1.084)	2344342	20.0000	20.9
	55 Methylcyclohexane	98	6.436	6.436	(1.146)	950055	20.0000	20.0
	56 Methyl Isobutyl Ketone	43	6.533	6.533	(1.163)	6489778	50.0000	47.1
	57 cis-1,3-Dichloropropene	75	6.590	6.590	(1.173)	1929188	20.0000	21.2
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.244)	1807671	20.0000	19.6
$	59 Toluene-d8 (S)	98	7.079	7.079	(1.260)	2455970	10.0000	10.4
	60 1,1,2-Trichloroethane	97	7.147	7.147	(1.272)	1299180	20.0000	19.4
	61 Toluene	91	7.156	7.156	(1.274)	3854046	20.0000	19.7
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.853)	6198984	50.0000	48.7
	63 n-Octane	43	7.584	7.584	(0.877)	2653917	20.0000	18.7
	64 Dibromochloromethane	129	7.684	7.684	(0.889)	2639362	20.0000	21.1
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	2247439	20.0000	19.9
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	2167430	20.0000	18.3
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1810761	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	3340415	20.0000	19.4
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	5150047	20.0000	19.4
	70 m&p-Xylene	91	9.085	9.085	(1.051)	7484954	40.0000	36.9
	71 n-Nonane	43	9.471	9.471	(1.096)	2310248	20.0000	18.3
	72 Bromoform	173	9.484	9.484	(1.097)	2111704	20.0000	21.8
	73 Styrene	104	9.510	9.510	(1.100)	3036917	20.0000	20.4
	74 o-Xylene	91	9.584	9.584	(1.109)	3974029	20.0000	19.1
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	2344311	20.0000	20.8
	76 Isopropylbenzene	105	10.166	10.166	(1.176)	5355647	20.0000	19.0
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	6170620	20.0000	20.8

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08615.D
Report Date: 28-Mar-2017 10:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.263)	5314720	20.0000	21.1
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	4424358	20.0000	20.0
80	n-Decane	57	11.381	11.381	(2.026)	2727682	20.0000	22.6
81	Tert-Butyl Benzene	119	11.500	11.500	(1.330)	4441940	20.0000	18.8
82	1,2,4-Trimethylbenzene	105	11.516	11.516	(1.332)	3918285	20.0000	19.9
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	2580138	20.0000	20.1
84	Sec- Butylbenzene	105	11.809	11.809	(1.366)	5515227	20.0000	19.8
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.372)	1000771	10.0000	11.6
86	Benzyl Chloride	91	11.867	11.867	(1.373)	2882556	20.0000	20.4
87	1,4-Dichlorobenzene	146	11.892	11.892	(1.376)	2651086	20.0000	20.5
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	4974166	20.0000	21.2
89	1,2,3-Trimethylbenzene	105	12.037	12.037	(1.392)	3930120	20.0000	20.8
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	2507689	20.0000	20.5
91	N-Butylbenzene	91	12.462	12.462	(1.441)	3878354	20.0000	20.5
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	912151	20.0000	20.2
93	1,2,4-Trichlorobenzene	180	14.043	14.043	(1.624)	714934	20.0000	20.2
94	Naphthalene	128	14.172	14.172	(1.639)	1820789	20.0000	20.2
95	Hexachlorobutadiene	225	14.416	14.416	(1.668)	815188	20.0000	20.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08615.D
Report Date: 28-Mar-2017 10:38

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08615.D
Lab Smp Id: cal6
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info:

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

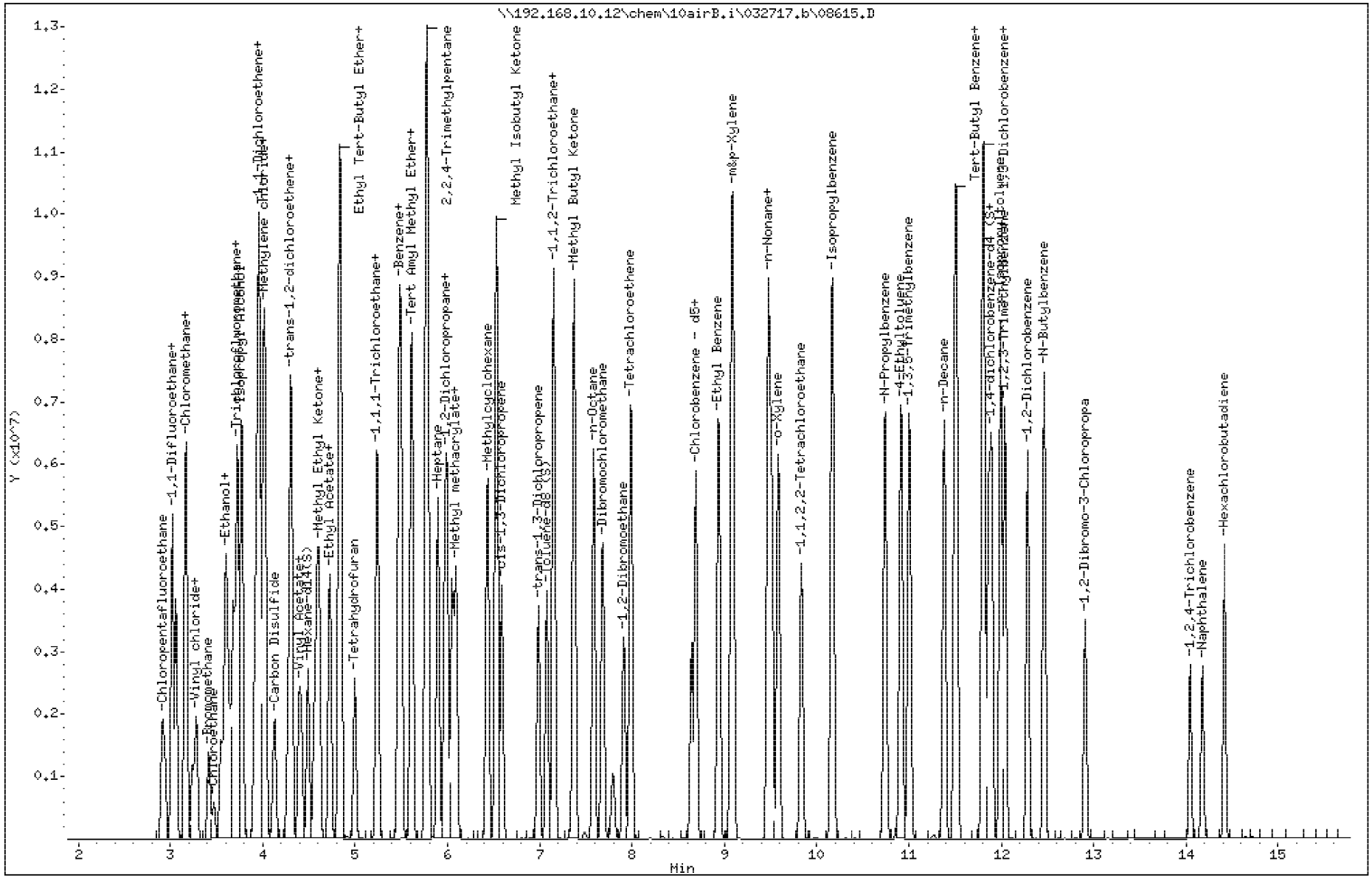
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2788701	-1.52
67 Chlorobenzene - d	1804482	1082689	2526275	1810761	0.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.12
67 Chlorobenzene - d	8.64	8.31	8.97	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

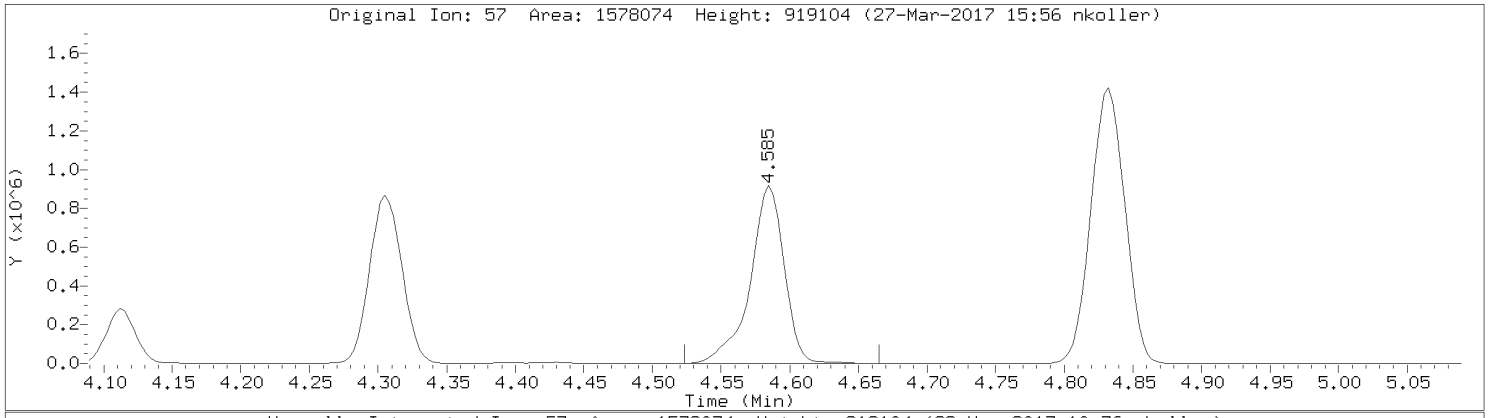
Data File: \\192.168.10.12\chem\10airB.i\032717.b\08615.D
Date : 27-MAR-2017 15:27
Client ID:
Sample Info:

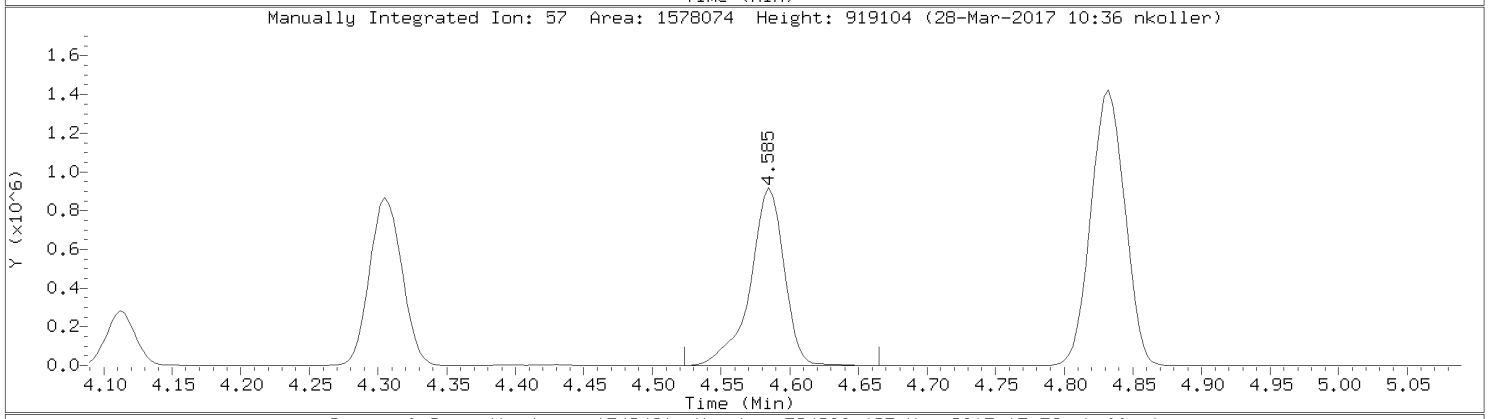
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

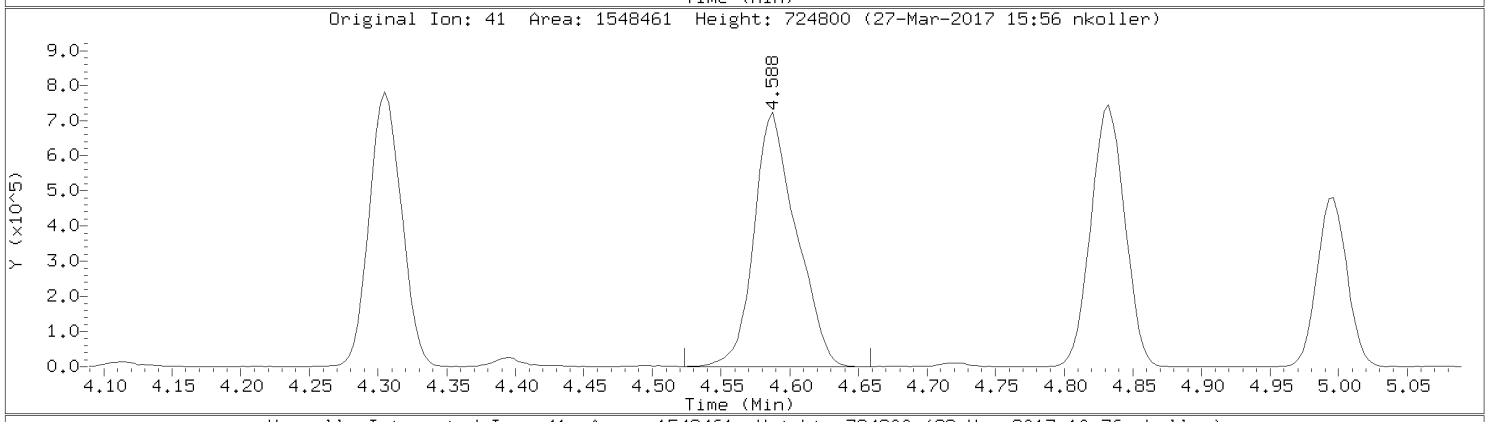


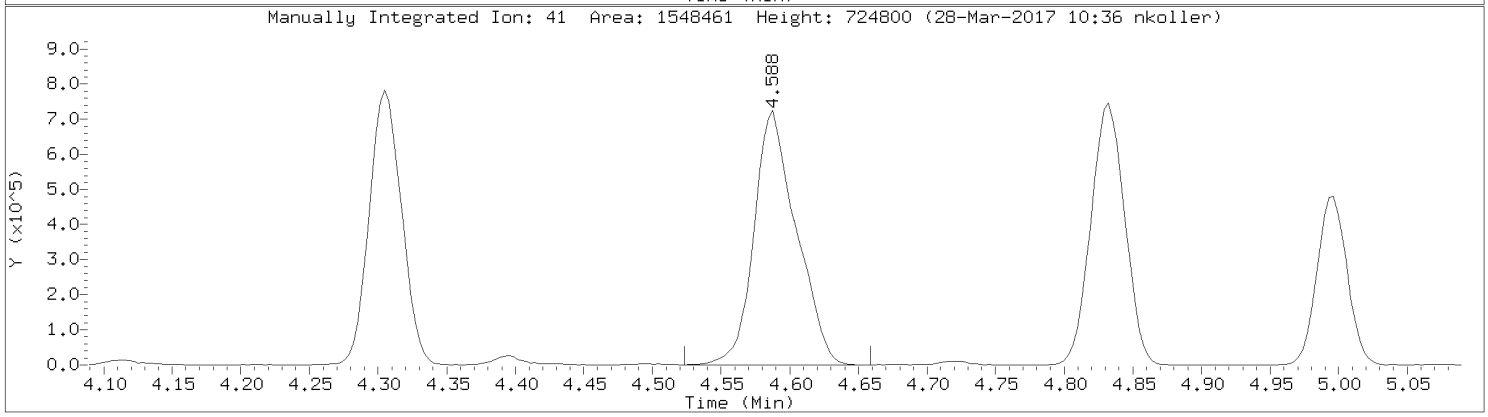
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08615.D
Injection Date: 27-MAR-2017 15:27
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: n-Hexane
CAS Number: 110-54-3

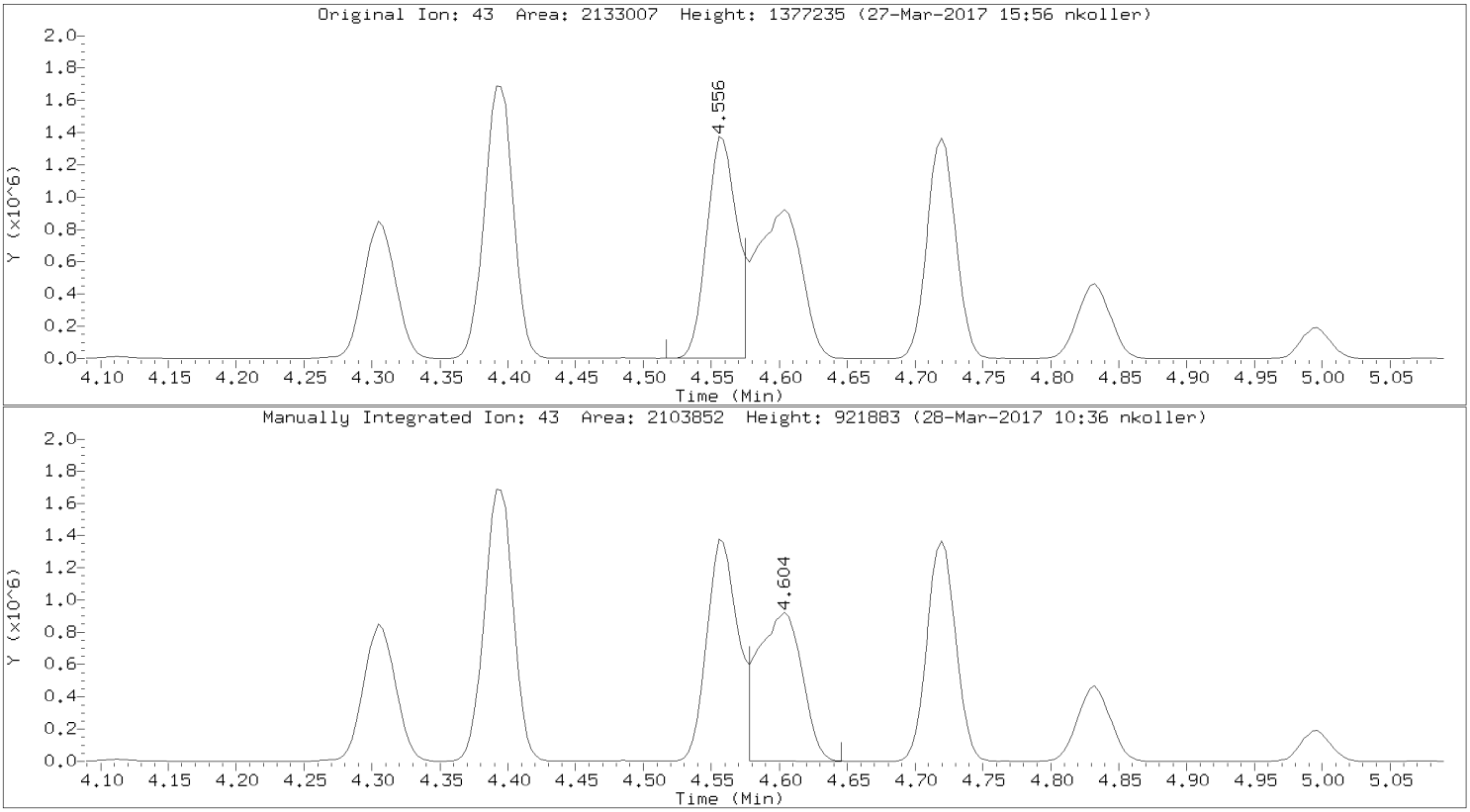








Data File: \\192.168.10.12\chem\10airB.i\032717.b/08615.D
Injection Date: 27-MAR-2017 15:27
Instrument: 10airB.i
Lab Sample ID: cal6



Data File: \\192.168.10.12\chem\10airB.i\032717.b\08616.D
Report Date: 28-Mar-2017 10:38

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08616.D
Lab Smp Id: cal7
Inj Date : 27-MAR-2017 15:56
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 28-Mar-2017 10:38 10airB.i Quant Type: ISTD
Cal Date : 27-MAR-2017 15:27 Cal File: 08615.D
Als bottle: 16 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.915	2.915	(0.519)	454976	30.0000	(a)
2	1,1-Difluoroethane	65	3.008	3.008	(0.535)	959458	30.0000	31.5(A)
3	Chlorodifluoromethane	67	3.005	3.005	(0.535)	422702	30.0000	30.8(A)
4	Propylene	41	2.999	2.999	(0.533)	1144845	30.0000	28.6
5	Dichlorodifluoromethane	85	3.044	3.044	(0.541)	4206246	30.0000	28.5
6	Chloromethane	50	3.147	3.147	(0.560)	1915607	30.0000	31.5(A)
7	Dichlorotetrafluoroethane	85	3.166	3.166	(0.563)	3909471	30.0000	29.7
8	Vinyl chloride	62	3.230	3.230	(0.575)	1663953	30.0000	33.1(A)
9	1,3-Butadiene	54	3.278	3.278	(0.583)	1267365	30.0000	33.4(A)
10	Bromomethane	94	3.417	3.417	(0.608)	1308158	30.0000	32.5(A)
11	Chloroethane	64	3.471	3.471	(0.617)	731702	30.0000	34.4(A)
12	Ethanol	45	3.558	3.558	(0.633)	2701779	150.000	152(A)
13	Vinyl Bromide	106	3.587	3.587	(0.638)	1215159	30.0000	30.0
14	Isopentane	43	3.606	3.606	(0.641)	1563544	30.0000	30.9(A)
15	Freon 123	83	3.648	3.648	(0.649)	1520106	30.0000	30.1(A)
16	Trichlorofluoromethane	101	3.680	3.680	(0.655)	3206632	30.0000	31.0(A)
17	Acrolein	56	3.696	3.696	(0.657)	1263476	75.0000	77.8(A)
18	Acetone	43	3.735	3.735	(0.664)	9618061	150.000	137
19	Isopropyl Alcohol	45	3.786	3.786	(0.673)	10531637	150.000	134
20	1,1-Dichloroethene	61	3.918	3.918	(0.697)	2222559	30.0000	30.6(A)
21	Acrylonitrile	53	3.944	3.944	(0.702)	2580775	75.0000	72.2
22	Freon 113	101	3.957	3.957	(0.704)	2268939	30.0000	27.4
23	Methyl Acetate	43	3.973	3.973	(0.707)	3071673	30.0000	26.7

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08616.D
Report Date: 28-Mar-2017 10:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.976	3.976	(0.707)	6468458	75.0000	64.6(M)
	25 Methylene chloride	49	4.015	4.015	(0.714)	7109066	150.000	132
	26 Allyl Chloride	76	4.028	4.028	(0.716)	904164	75.0000	63.8
	27 Carbon Disulfide	76	4.134	4.134	(0.735)	2969377	30.0000	31.3(A)
	28 trans-1,2-dichloroethene	96	4.285	4.285	(0.762)	1220519	30.0000	30.1(A)
	29 Methyl Tert Butyl Ether	73	4.311	4.311	(0.767)	7592009	75.0000	70.2
	30 Vinyl Acetate	43	4.404	4.404	(0.783)	3692169	30.0000	31.3(A)
	31 1,1-Dichloroethane	63	4.423	4.423	(0.787)	2451025	30.0000	31.1(A)
$	32 Hexane-d14(S)	66	4.494	4.494	(0.799)	1038177	10.0000	10.3
	33 Methyl Ethyl Ketone	72	4.568	4.568	(0.812)	626040	30.0000	29.2(Q)
	34 n-Hexane	57	4.590	4.590	(0.816)	2389207	30.0000	30.1(AM)
	35 Di-isopropyl Ether	45	4.616	4.616	(0.821)	5181545	30.0000	33.3(A)
	36 Ethyl Acetate	43	4.729	4.729	(0.841)	3546694	30.0000	34.8(A)
	37 cis-1,2-Dichloroethene	96	4.738	4.738	(0.843)	1621722	30.0000	36.5(A)
	38 Ethyl Tert-Butyl Ether	59	4.838	4.838	(0.860)	10666634	75.0000	67.6
	39 Chloroform	83	4.854	4.854	(0.863)	2703346	30.0000	30.6(A)
	40 Tetrahydrofuran	42	5.002	5.002	(0.890)	1902503	30.0000	31.0(A)
	41 1,1,1-Trichloroethane	97	5.243	5.243	(0.933)	3342524	30.0000	29.2
	42 1,2-Dichloroethane	62	5.249	5.249	(0.934)	2528500	30.0000	28.8
	43 Benzene	78	5.478	5.478	(0.974)	4445982	30.0000	28.8
	44 Carbon tetrachloride	117	5.497	5.497	(0.978)	3255874	30.0000	29.4
	45 Cyclohexane	56	5.497	5.497	(0.978)	2372269	30.0000	26.7
	46 Tert Amyl Methyl Ether	73	5.613	5.613	(0.998)	4558414	30.0000	29.9
*	47 1,4-Difluorobenzene	114	5.622	5.622	(1.000)	2680728	10.0000	
	48 2,2,4-Trimethylpentane	57	5.783	5.783	(1.029)	15544251	75.0000	57.4
	49 Heptane	43	5.902	5.902	(1.050)	2940798	30.0000	30.1(A)
	50 1,2-Dichloropropane	63	5.976	5.976	(1.063)	1806532	30.0000	29.7
	51 Trichloroethene	130	5.999	5.999	(1.067)	2414721	30.0000	29.8
	52 Methyl methacrylate	69	6.053	6.053	(1.077)	1657065	30.0000	30.0
	53 1,4-Dioxane	88	6.076	6.076	(1.081)	1103982	30.0000	29.2
	54 Bromodichloromethane	83	6.095	6.095	(1.084)	3357157	30.0000	31.2(A)
	55 Methylcyclohexane	98	6.442	6.442	(1.146)	1382752	30.0000	30.2(A)
	56 Methyl Isobutyl Ketone	43	6.539	6.539	(1.163)	8905805	75.0000	67.2
	57 cis-1,3-Dichloropropene	75	6.597	6.597	(1.173)	2840751	30.0000	32.5(A)
	58 trans-1,3-Dichloropropene	75	6.995	6.995	(1.244)	2691808	30.0000	30.3(A)
$	59 Toluene-d8 (S)	98	7.082	7.082	(1.260)	2451520	10.0000	10.8
	60 1,1,2-Trichloroethane	97	7.153	7.153	(1.272)	1845795	30.0000	28.6
	61 Toluene	91	7.163	7.163	(1.274)	5427974	30.0000	28.8
	62 Methyl Butyl Ketone	43	7.381	7.381	(0.854)	8637364	75.0000	66.7
	63 n-Octane	43	7.590	7.590	(0.878)	3845059	30.0000	26.6
	64 Dibromochloromethane	129	7.687	7.687	(0.889)	3816867	30.0000	30.0
	65 1,2-Dibromoethane	107	7.918	7.918	(0.916)	3285850	30.0000	28.6
	66 Tetrachloroethene	166	7.992	7.992	(0.924)	3107271	30.0000	25.8
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	1841128	10.0000	
	68 Chlorobenzene	112	8.693	8.693	(1.005)	4861574	30.0000	27.8
	69 Ethyl Benzene	91	8.941	8.941	(1.034)	7425067	30.0000	27.5
	70 m&p-Xylene	91	9.088	9.088	(1.051)	10286515	60.0000	49.9
	71 n-Nonane	43	9.474	9.474	(1.096)	3195670	30.0000	24.9
	72 Bromoform	173	9.487	9.487	(1.097)	2971516	30.0000	30.2(A)
	73 Styrene	104	9.516	9.516	(1.100)	4331571	30.0000	28.6
	74 o-Xylene	91	9.587	9.587	(1.109)	5678361	30.0000	26.8
	75 1,1,2,2-Tetrachloroethane	83	9.834	9.834	(1.137)	3433284	30.0000	29.9
	76 Isopropylbenzene	105	10.169	10.169	(1.176)	7640296	30.0000	26.6
	77 N-Propylbenzene	91	10.744	10.744	(1.242)	8797596	30.0000	29.2

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08616.D
Report Date: 28-Mar-2017 10:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	10.921	10.921	(1.263)	7610998	30.0000	29.7
79	1,3,5-Trimethylbenzene	105	11.008	11.008	(1.273)	6370609	30.0000	28.3
80	n-Decane	57	11.384	11.384	(2.025)	3964984	30.0000	34.2(A)
81	Tert-Butyl Benzene	119	11.503	11.503	(1.330)	6298706	30.0000	26.2
82	1,2,4-Trimethylbenzene	105	11.519	11.519	(1.332)	5432755	30.0000	27.2
83	1,3-Dichlorobenzene	146	11.802	11.802	(1.365)	3652492	30.0000	30.0
84	Sec- Butylbenzene	105	11.815	11.815	(1.366)	7590608	30.0000	26.8
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.371)	1005063	10.0000	11.5
86	Benzyl Chloride	91	11.873	11.873	(1.373)	4290403	30.0000	29.8
87	1,4-Dichlorobenzene	146	11.895	11.895	(1.375)	3892321	30.0000	29.6
88	p-Isopropyltoluene	119	11.995	11.995	(1.387)	7008329	30.0000	29.4
89	1,2,3-Trimethylbenzene	105	12.040	12.040	(1.392)	5593680	30.0000	29.1
90	1,2-Dichlorobenzene	146	12.288	12.288	(1.421)	3691667	30.0000	29.6
91	N-Butylbenzene	91	12.465	12.465	(1.441)	5647992	30.0000	29.4
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	1417510	30.0000	29.9
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.623)	1236423	30.0000	29.9
94	Naphthalene	128	14.169	14.169	(1.638)	3031873	30.0000	29.9
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	1271410	30.0000	32.0(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08616.D
Report Date: 28-Mar-2017 10:38

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08616.D
Lab Smp Id: cal7
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info:

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

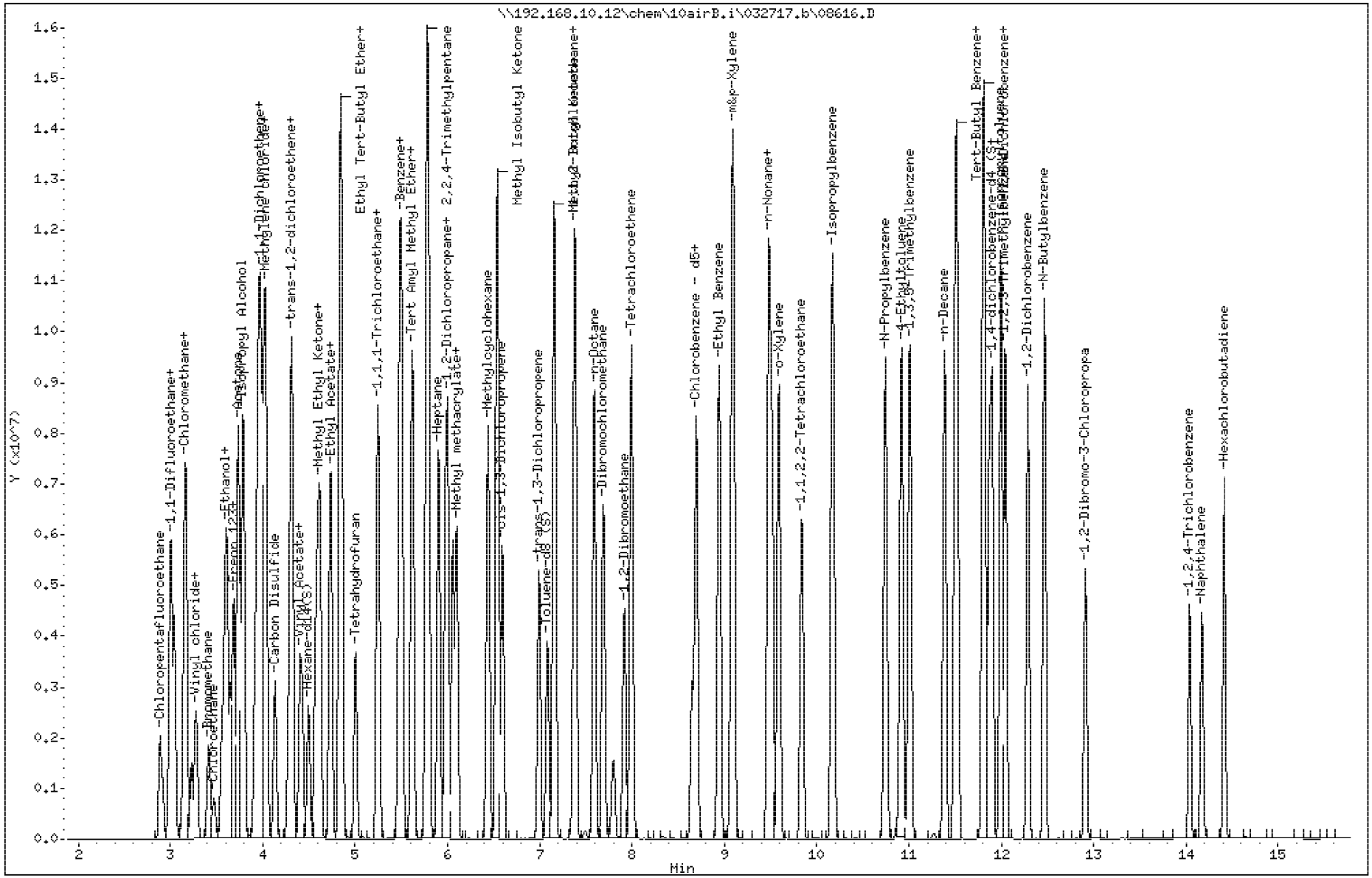
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2680728	-5.33
67 Chlorobenzene - d	1804482	1082689	2526275	1841128	2.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.65	0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

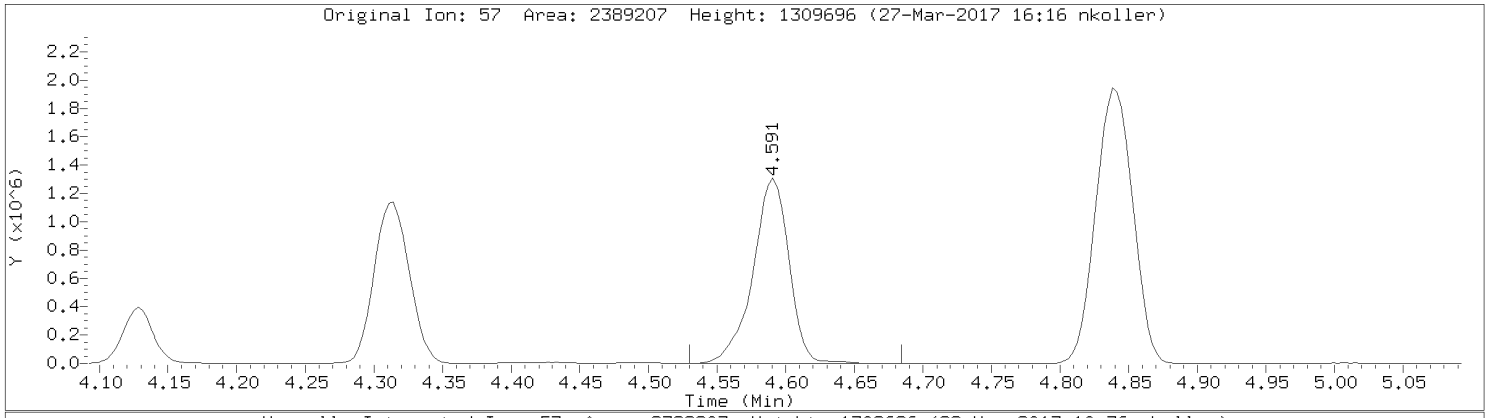
Data File: \\192.168.10.12\chem\10airB.i\032717.b\08616.D
Date : 27-MAR-2017 15:56
Client ID:
Sample Info:

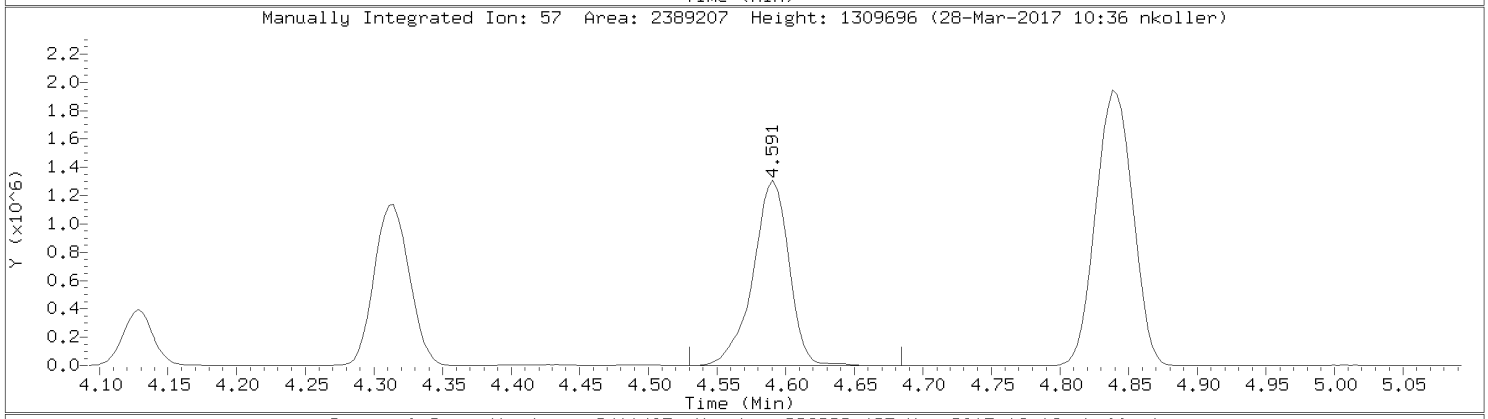
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

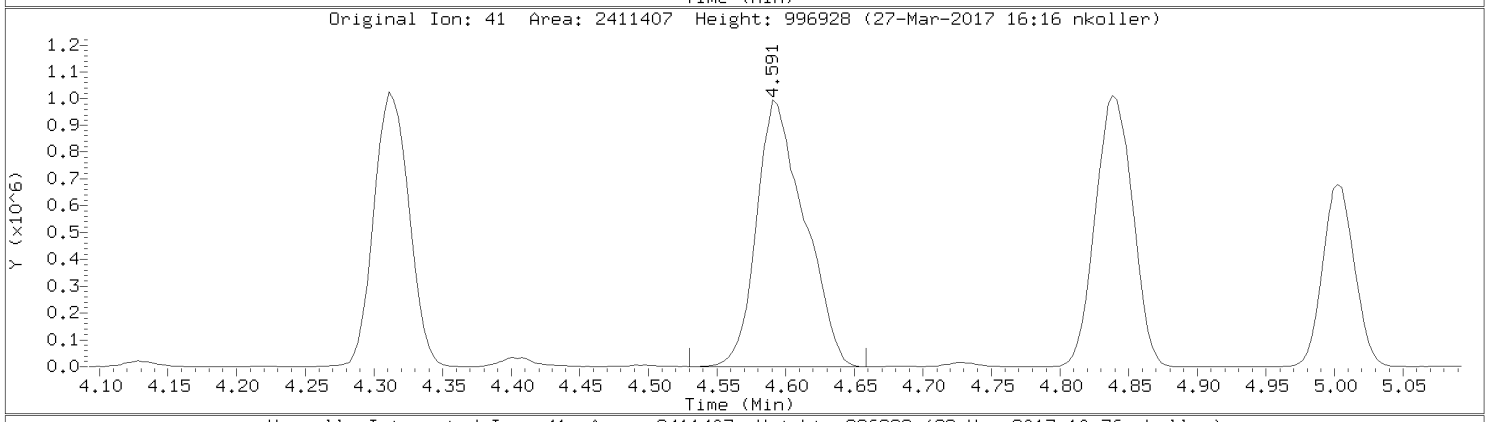


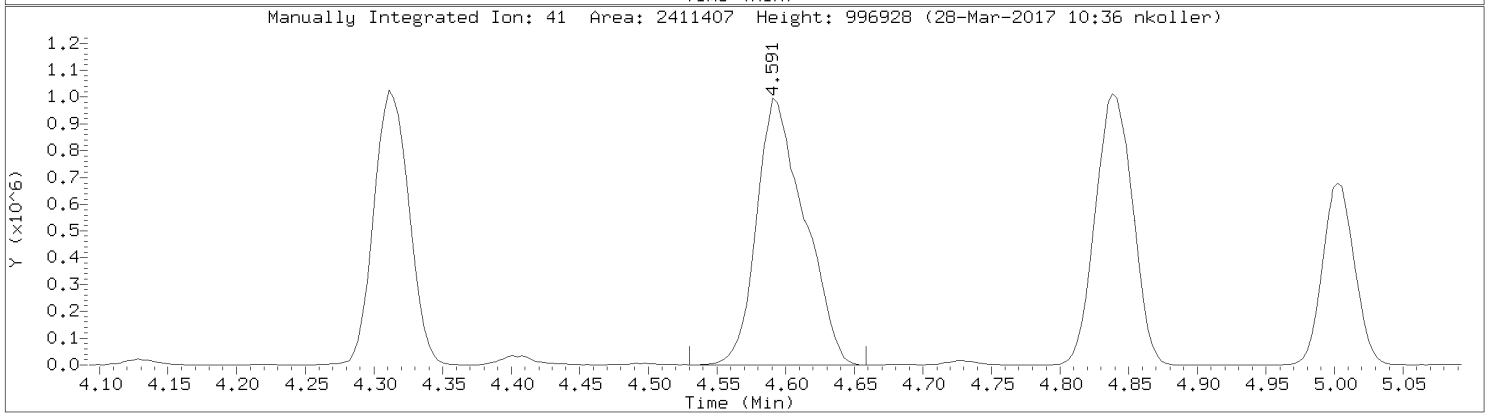
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08616.D
Injection Date: 27-MAR-2017 15:56
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: n-Hexane
CAS Number: 110-54-3

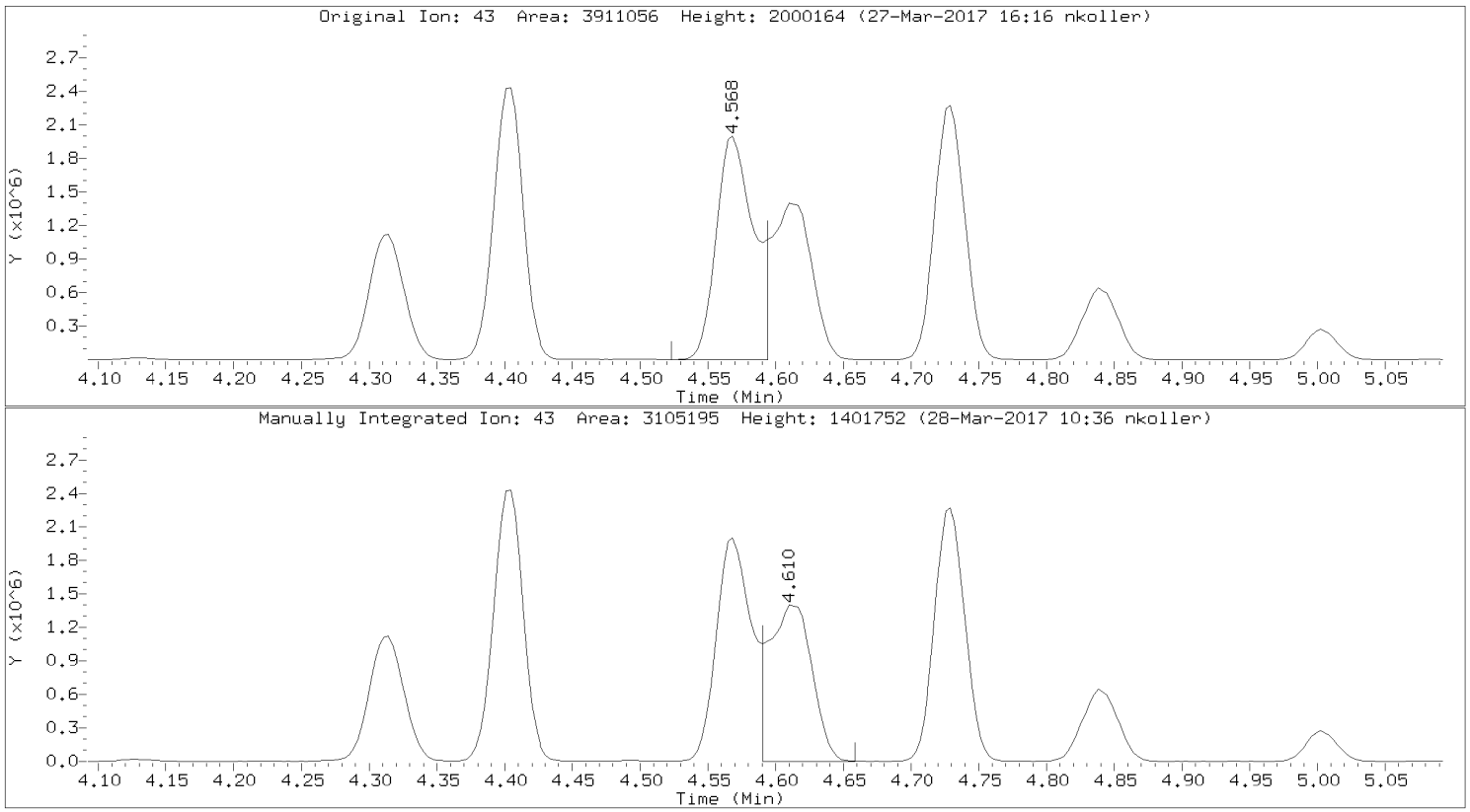






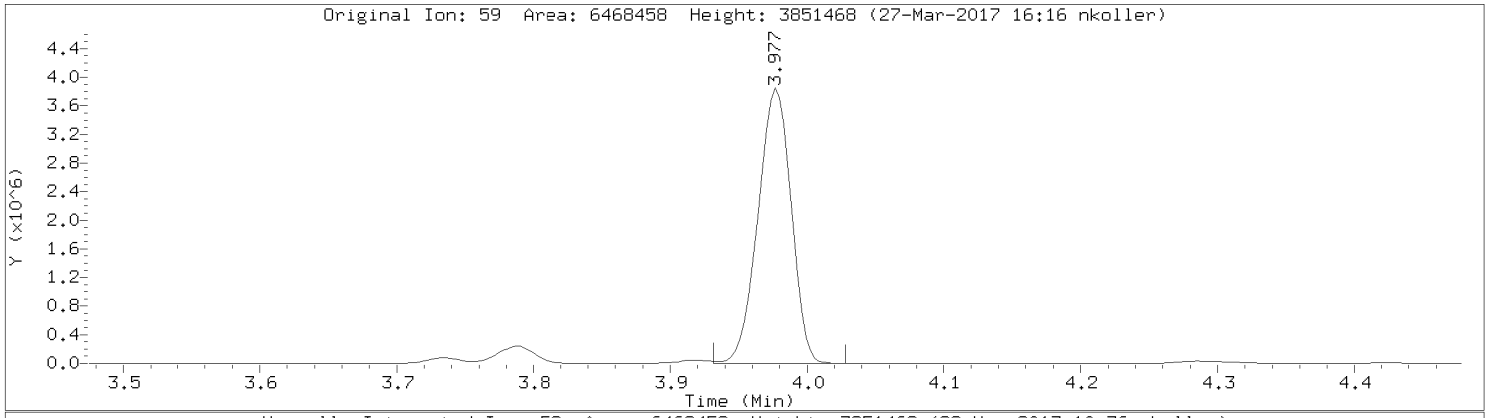


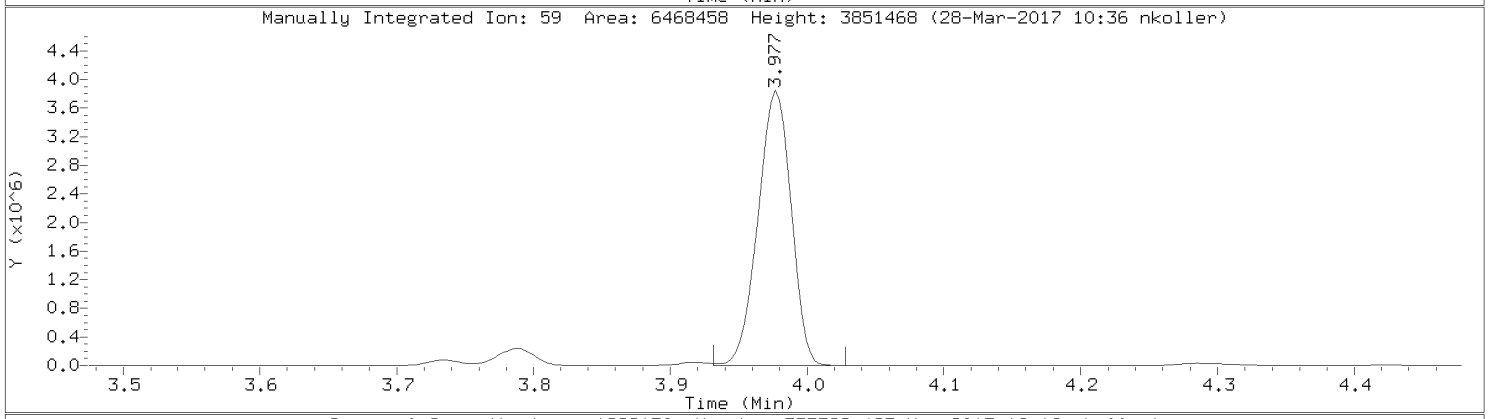
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08616.D
Injection Date: 27-MAR-2017 15:56
Instrument: 10airB.i
Lab Sample ID: cal7

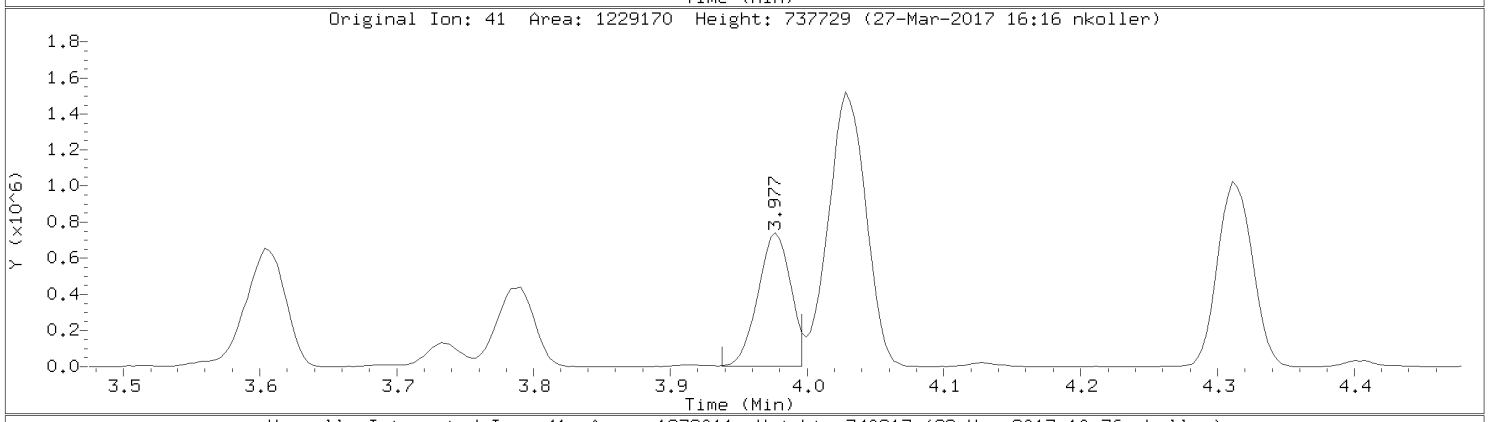


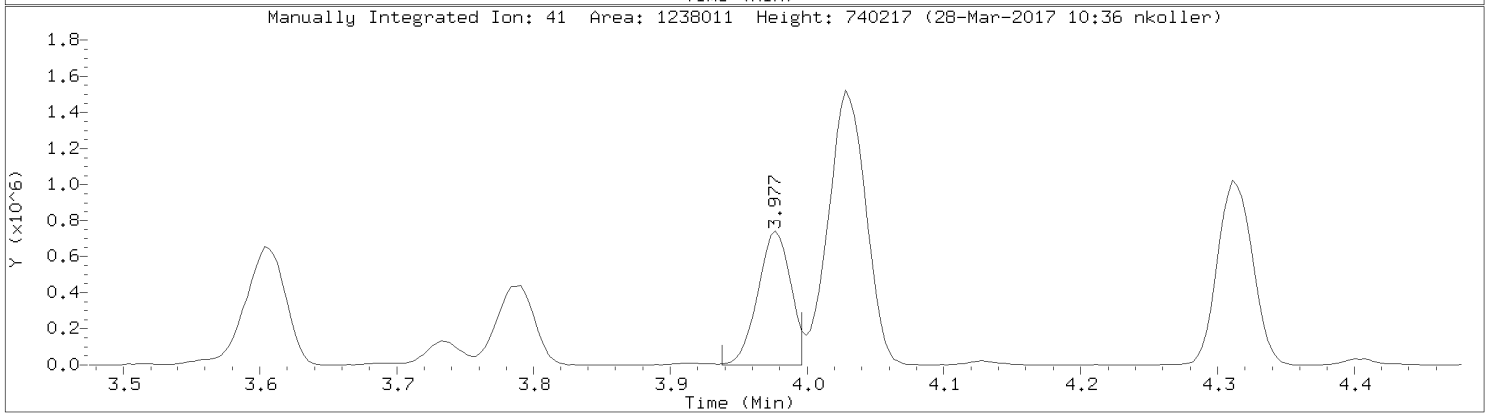
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08616.D
Injection Date: 27-MAR-2017 15:56
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0









Data File: \\192.168.10.12\chem\10airB.i\032717.b\08618.D
Report Date: 28-Mar-2017 10:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08618.D
Lab Smp Id: ICV
Inj Date : 27-MAR-2017 16:52
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 28-Mar-2017 10:38 10airB.i Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 18 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	Compound Not Detected.					
2	1,1-Difluoroethane	65	2.986	3.008	(0.533)	6971	0.25251	0.253(Q)
3	Chlorodifluoromethane	67	2.996	3.005	(0.534)	141058	11.3650	11.4(Q)
4	Propylene	41	2.999	2.999	(0.535)	377096	10.3981	10.4
5	Dichlorodifluoromethane	85	3.031	3.044	(0.541)	1425710	10.6764	10.7
6	Chloromethane	50	3.128	3.147	(0.558)	637009	11.5660	11.6
7	Dichlorotetrafluoroethane	85	3.144	3.166	(0.561)	1349257	11.3117	11.3
8	Vinyl chloride	62	3.208	3.230	(0.572)	550278	12.0857	12.1
9	1,3-Butadiene	54	3.253	3.278	(0.580)	406648	11.8251	11.8
10	Bromomethane	94	3.394	3.417	(0.605)	408978	11.2301	11.2
11	Chloroethane	64	3.449	3.471	(0.615)	224488	11.6516	11.7
12	Ethanol	45	3.533	3.558	(0.630)	225111	13.9946	14.0
13	Vinyl Bromide	106	3.565	3.587	(0.636)	433012	11.8091	11.8
14	Isopentane	43	3.584	3.606	(0.639)	491099	10.7284	10.7
15	Freon 123	83	Compound Not Detected.					
16	Trichlorofluoromethane	101	3.661	3.680	(0.653)	1077055	11.5222	11.5
17	Acrolein	56	3.671	3.696	(0.655)	146562	9.97002	9.97
18	Acetone	43	3.706	3.735	(0.661)	815659	12.8692	12.9(H)
19	Isopropyl Alcohol	45	3.755	3.786	(0.670)	959500	13.4495	13.4
20	1,1-Dichloroethene	61	3.896	3.918	(0.695)	750203	11.4002	11.4
21	Acrylonitrile	53	3.912	3.944	(0.698)	407025	12.5845	12.6
22	Freon 113	101	3.935	3.957	(0.702)	859679	11.4528	11.5
23	Methyl Acetate	43	3.941	3.973	(0.703)	189573	1.81887	1.82(Q)

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08618.D
Report Date: 28-Mar-2017 10:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.944	3.976	(0.704)	1131211	12.4843	12.5(H)
	25 Methylene chloride	49	3.989	4.015	(0.712)	636015	13.0901	13.1
	26 Allyl Chloride	76	4.005	4.028	(0.714)	176312	13.7485	13.7
	27 Carbon Disulfide	76	4.115	4.134	(0.734)	1111724	12.9664	13.0
	28 trans-1,2-dichloroethene	96	4.259	4.285	(0.760)	436403	11.8922	11.9
	29 Methyl Tert Butyl Ether	73	4.298	4.311	(0.767)	1190197	12.1682	12.2
	30 Vinyl Acetate	43	4.378	4.404	(0.781)	1279734	12.0040	12.0
	31 1,1-Dichloroethane	63	4.398	4.423	(0.784)	829795	11.6271	11.6
$	32 Hexane-d14(S)	66	4.481	4.494	(0.799)	850692	9.34778	9.35
	33 Methyl Ethyl Ketone	72	4.545	4.568	(0.811)	205433	10.5761	10.6(Q)
	34 n-Hexane	57	4.578	4.590	(0.816)	812785	11.3256	11.3(M)
	35 Di-isopropyl Ether	45	4.597	4.616	(0.820)	1529323	10.8632	10.9
	36 Ethyl Acetate	43	4.713	4.729	(0.841)	1079764	11.7185	11.7
	37 cis-1,2-Dichloroethene	96	4.713	4.738	(0.841)	463328	11.5141	11.5(H)
	38 Ethyl Tert-Butyl Ether	59	4.822	4.838	(0.860)	1955273	13.6854	13.7
	39 Chloroform	83	4.835	4.854	(0.862)	1052471	13.1848	13.2
	40 Tetrahydrofuran	42	4.989	5.002	(0.890)	636065	11.4682	11.5
	41 1,1,1-Trichloroethane	97	5.224	5.243	(0.932)	1180511	11.3876	11.4
	42 1,2-Dichloroethane	62	5.230	5.249	(0.933)	904192	11.3653	11.4
	43 Benzene	78	5.459	5.478	(0.974)	1605509	11.4737	11.5
	44 Carbon tetrachloride	117	5.478	5.497	(0.977)	942261	9.39988	9.40
	45 Cyclohexane	56	5.484	5.497	(0.978)	896647	11.1509	11.2
	46 Tert Amyl Methyl Ether	73	5.600	5.613	(0.999)	1623999	11.6452	11.6
*	47 1,4-Difluorobenzene	114	5.607	5.622	(1.000)	2425956	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.783	(1.029)	3060448	12.4828	12.5
	49 Heptane	43	5.886	5.902	(1.050)	1015209	11.4961	11.5
	50 1,2-Dichloropropane	63	5.963	5.976	(1.064)	652313	11.8545	11.9
	51 Trichloroethene	130	5.983	5.999	(1.067)	857548	11.6777	11.7
	52 Methyl methacrylate	69	6.041	6.053	(1.077)	572569	11.4544	11.5
	53 1,4-Dioxane	88	6.063	6.076	(1.081)	407967	11.9422	11.9
	54 Bromodichloromethane	83	6.082	6.095	(1.085)	1184954	12.1585	12.2
	55 Methylcyclohexane	98	6.430	6.442	(1.147)	470673	11.3696	11.4
	56 Methyl Isobutyl Ketone	43	6.529	6.539	(1.165)	1578120	13.1579	13.2
	57 cis-1,3-Dichloropropene	75	6.584	6.597	(1.174)	962992	12.1799	12.2
	58 trans-1,3-Dichloropropene	75	6.979	6.995	(1.245)	886542	11.1048	11.1
$	59 Toluene-d8 (S)	98	7.073	7.082	(1.261)	2148939	10.5072	10.5
	60 1,1,2-Trichloroethane	97	7.140	7.153	(1.274)	683255	11.7074	11.7
	61 Toluene	91	7.150	7.163	(1.275)	2007209	11.7882	11.8
	62 Methyl Butyl Ketone	43	7.369	7.381	(0.853)	1561742	13.5652	13.6
	63 n-Octane	43	7.578	7.590	(0.877)	62825	0.48847	0.488
	64 Dibromochloromethane	129	7.674	7.687	(0.888)	1268099	11.1943	11.2
	65 1,2-Dibromoethane	107	7.902	7.918	(0.915)	1127924	11.0549	11.1
	66 Tetrachloroethene	166	7.983	7.992	(0.924)	1108052	10.3359	10.3
*	67 Chlorobenzene - d5	117	8.639	8.648	(1.000)	1636908	10.0000	
	68 Chlorobenzene	112	8.684	8.693	(1.005)	1681550	10.8168	10.8
	69 Ethyl Benzene	91	8.931	8.941	(1.034)	2660611	11.0900	11.1
	70 m&p-Xylene	91	9.076	9.088	(1.051)	2229000	12.1603	12.2
	71 n-Nonane	43	9.471	9.474	(1.096)	81015	0.70946	0.709
	72 Bromoform	173	9.478	9.487	(1.097)	1031690	11.7993	11.8
	73 Styrene	104	9.503	9.516	(1.100)	1572107	11.6720	11.7
	74 o-Xylene	91	9.577	9.587	(1.109)	2082503	11.0701	11.1
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.834	(1.138)	1230543	12.0542	12.1
	76 Isopropylbenzene	105	10.159	10.169	(1.176)	2838697	11.1338	11.1
	77 N-Propylbenzene	91	10.738	10.744	(1.243)	3240136	12.0992	12.1

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08618.D
Report Date: 28-Mar-2017 10:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.921	(1.263)	2655497	11.6673	11.7
79	1,3,5-Trimethylbenzene	105	10.999	11.008	(1.273)	2328616	11.6440	11.6
80	n-Decane	57	11.378	11.384	(2.029)	134030	1.27589	1.28
81	Tert-Butyl Benzene	119	11.497	11.503	(1.331)	2353386	11.0217	11.0
82	1,2,4-Trimethylbenzene	105	11.510	11.519	(1.332)	2149790	12.1042	12.1
83	1,3-Dichlorobenzene	146	11.793	11.802	(1.365)	1371370	11.2030	11.2
84	Sec- Butylbenzene	105	11.806	11.815	(1.367)	3041589	12.0696	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.857	(1.372)	949065	12.2134	12.2(M)
86	Benzyl Chloride	91	11.864	11.873	(1.373)	1361169	10.7553	10.8
87	1,4-Dichlorobenzene	146	11.889	11.895	(1.376)	1367733	11.6948	11.7
88	p-Isopropyltoluene	119	11.986	11.995	(1.387)	2586518	12.1982	12.2
89	1,2,3-Trimethylbenzene	105	12.034	12.040	(1.393)	2142503	12.5292	12.5
90	1,2-Dichlorobenzene	146	12.282	12.288	(1.422)	1287450	11.6319	11.6
91	N-Butylbenzene	91	12.458	12.465	(1.442)	2123524	12.4278	12.4
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.494)	100900	2.78532	2.79
93	1,2,4-Trichlorobenzene	180	14.044	14.037	(1.626)	442095	15.0752	15.1(R)
94	Naphthalene	128	14.172	14.169	(1.641)	1418088	17.8741	17.9(R)
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	606826	17.2053	17.2(R)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08618.D
Report Date: 28-Mar-2017 10:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08618.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info:

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

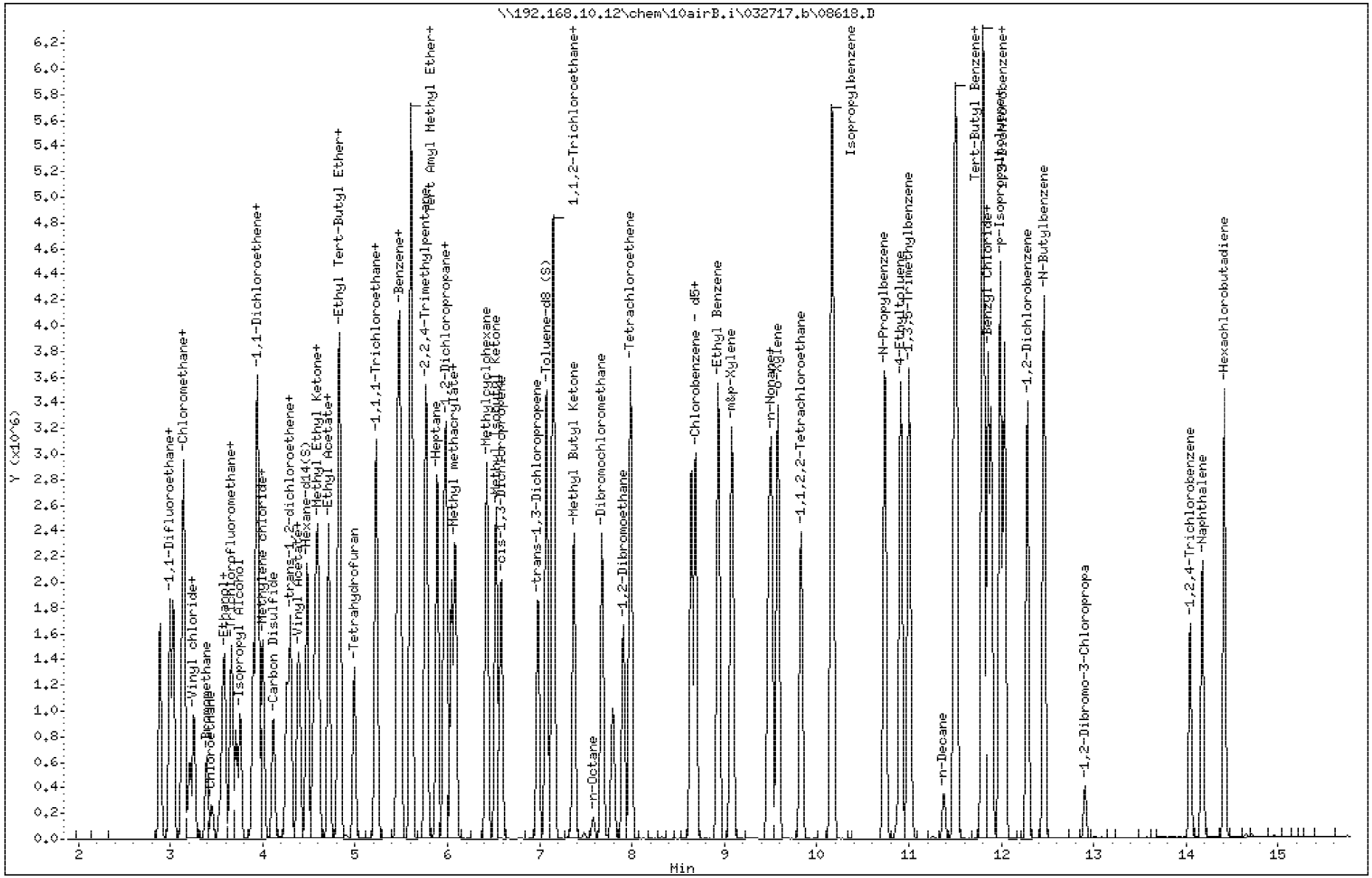
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2425956	-14.33
67 Chlorobenzene - d	1804482	1082689	2526275	1636908	-9.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.05
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

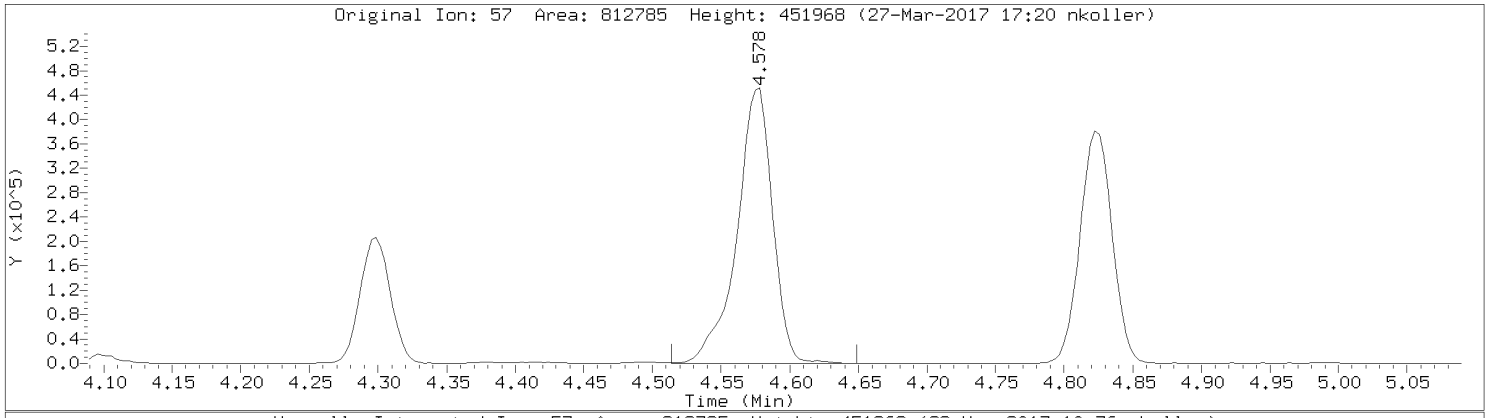
Data File: \\192.168.10.12\chem\10airB.i\032717.b\08618.D
Date : 27-MAR-2017 16:52
Client ID:
Sample Info:

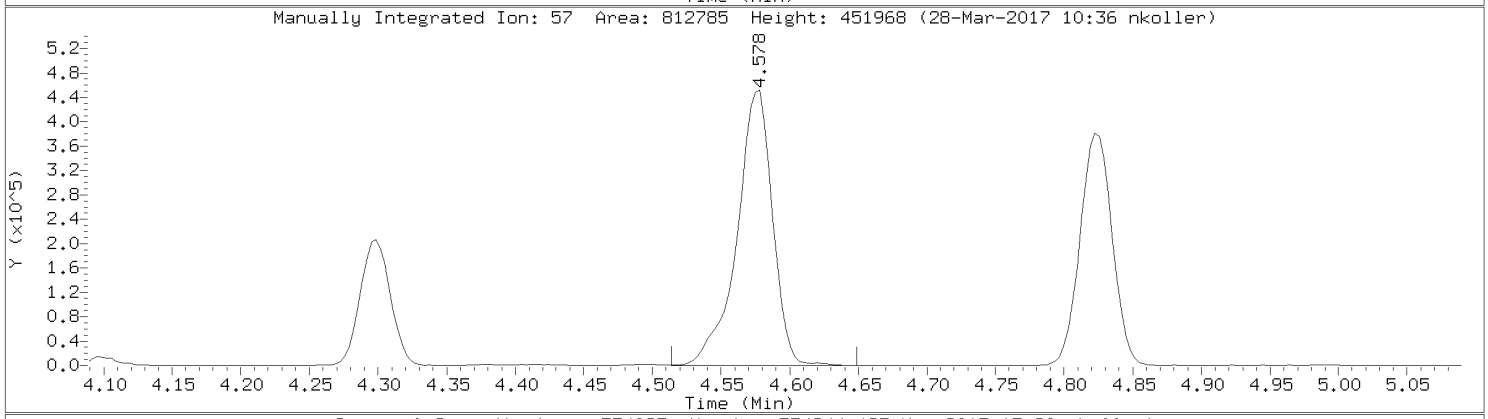
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

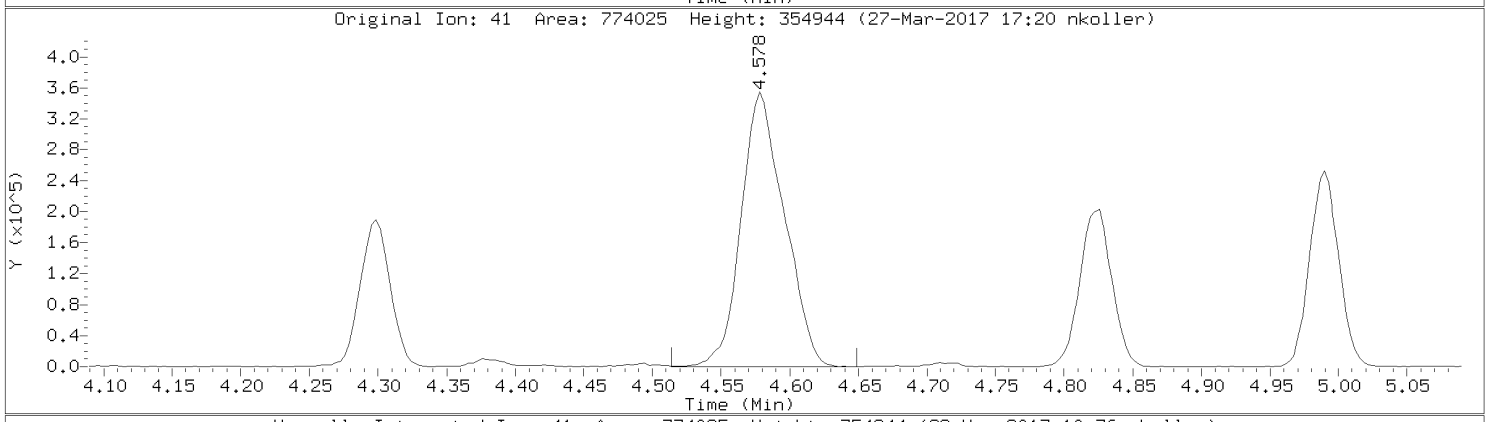


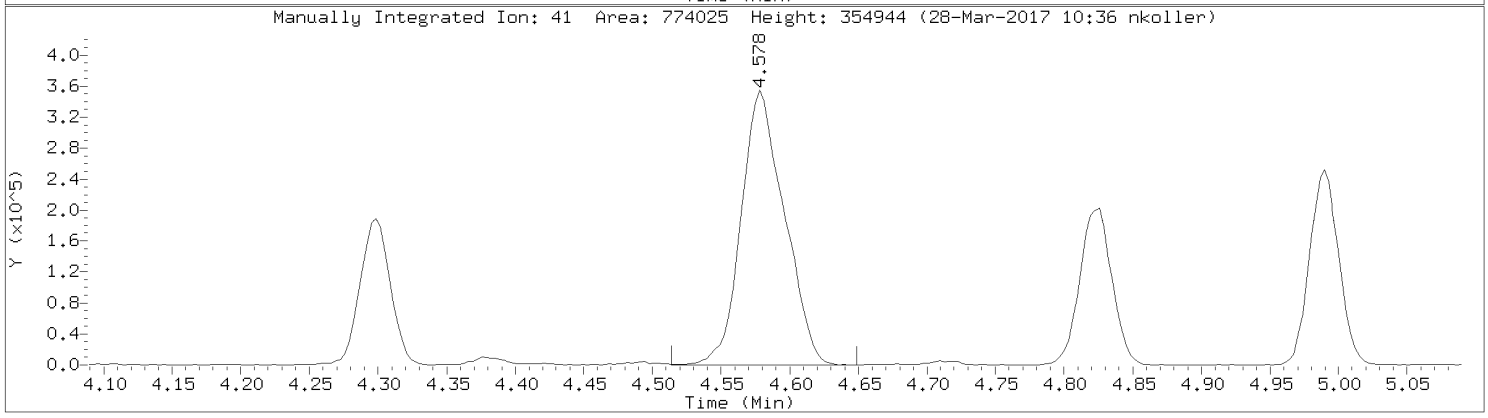
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08618.D
Injection Date: 27-MAR-2017 16:52
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: n-Hexane
CAS Number: 110-54-3

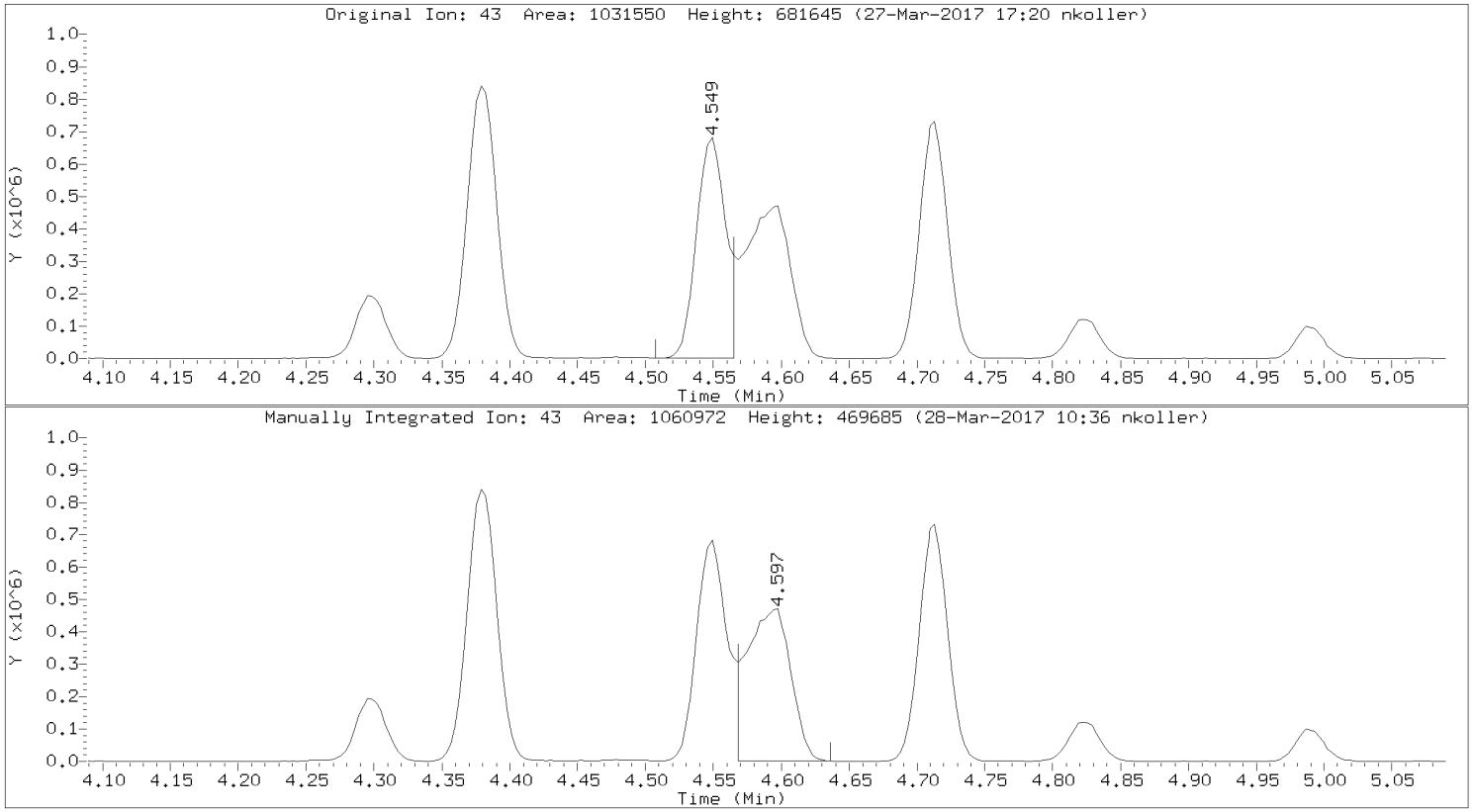






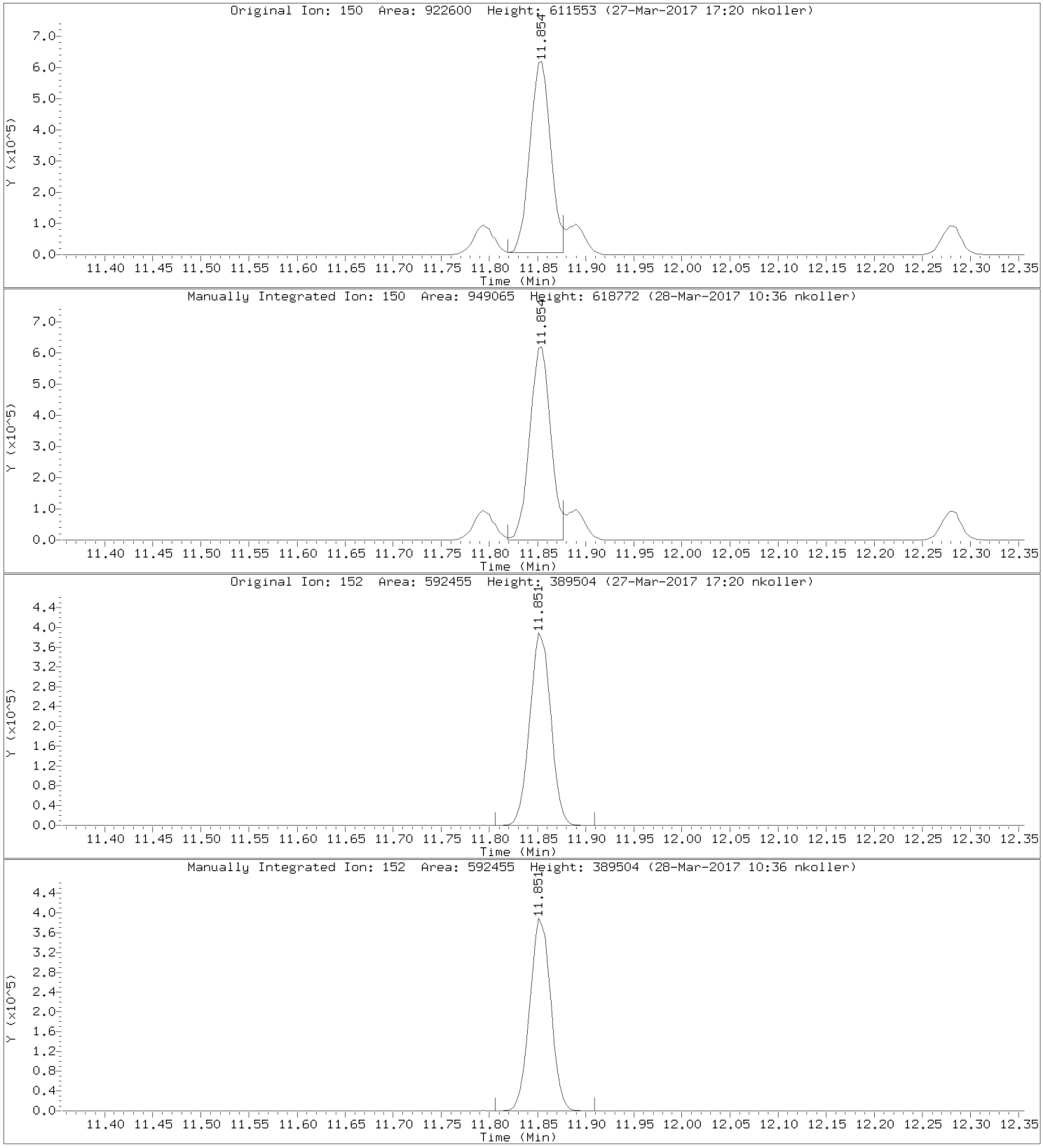


Data File: \\192.168.10.12\chem\10airB.i\032717.b/08618.D
Injection Date: 27-MAR-2017 16:52
Instrument: 10airB.i
Lab Sample ID: ICV



Data File: \\192.168.10.12\chem\10airB.i\032717.b/08618.D
Injection Date: 27-MAR-2017 16:52
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\033017.b\08841.D
Level 02: all \\192.168.10.12\chem\10airB.i\033017.b\08842.D
Level 03: all \\192.168.10.12\chem\10airB.i\033017.b\08843.D
Level 04: all \\192.168.10.12\chem\10airB.i\033017.b\08844.D
Level 05: all \\192.168.10.12\chem\10airB.i\033017.b\08849.D
Level 06: all \\192.168.10.12\chem\10airB.i\033017.b\08850.D
Level 07: all \\192.168.10.12\chem\10airB.i\033017.b\08851.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	7661	19042	23502	32931	236811	306716	+++++	QUAD	0.00168	0.17468	-0.04701	0.99897
2 1,1-Difluoroethane	0.14470	0.14990	0.15492	0.13433	0.18627	0.16777						
	0.17332							AVRG		0.15874		11.31957
3 Chlorodifluoromethane	0.06307	0.05817	0.06531	0.06307	0.07836	0.07098						
	0.07201							AVRG		0.06728		10.17462
4 Propylene	0.21393	0.19516	0.20601	0.18814	0.23231	0.20927						
	0.21561							AVRG		0.20863		6.90795

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	0.80855	0.69433	0.69210	0.64343	0.78531	0.70817					
	0.71242						AVRG		0.72061		7.93186
6 Chloromethane	0.28882	0.27134	0.29641	0.28320	0.37584	0.33941					
	0.34777						AVRG		0.31468		12.52360
7 Dichlorotetrafluoroethane	0.59861	0.60575	0.65230	0.60074	0.76334	0.67285					
	0.67949						AVRG		0.65330		9.09701
8 Vinyl chloride	0.26773	0.23284	0.23241	0.22051	0.30612	0.28362					
	0.29463						AVRG		0.26255		12.96931
9 1,3-Butadiene	0.20072	0.15999	0.19000	0.17472	0.24143	0.22242					
	0.22961						AVRG		0.20270		14.78085
10 Bromomethane	0.19482	0.17806	0.18678	0.17691	0.23960	0.21526					
	0.22857						AVRG		0.20286		12.36655
11 Chloroethane	2142	4156	11689	22521	240735	456874					
	689787						LINR	-0.00134	0.12804		0.99843

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.08558	0.07957	0.08724	0.08138	0.12349	0.10654	0.10552	AVRG		0.09562		17.21299
13 Vinyl Bromide	0.17080	0.17189	0.18259	0.17113	0.23375	0.20839	0.21283	AVRG		0.19305		13.06269
14 Isopentane	0.26516	0.25401	0.27078	0.24180	0.30638	0.27661	0.27857	AVRG		0.27047		7.56881
15 Freon 123	0.41159	0.40370	0.31667	0.23738	0.33932	0.27012	0.26567	AVRG		0.32064		21.32161
16 Trichlorofluoromethane	0.45688	0.47046	0.49292	0.48038	0.60321	0.54406	0.55320	AVRG		0.51444		10.38661
17 Acrolein	0.06880	0.06552	0.07523	0.07183	0.09811	0.08852	0.08908	AVRG		0.07958		15.44519
18 Acetone	0.35173	0.34505	0.35925	0.33571	0.42575	0.36359	0.35303	AVRG		0.36202		8.16244

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
19 Isopropyl Alcohol	0.35809	0.35896	0.38545	0.36273	0.51389	0.42100					
	0.39482						AVRG		0.39928		13.89793
20 1,1-Dichloroethene	0.31949	0.29719	0.34685	0.33270	0.43638	0.39139					
	0.39946						AVRG		0.36049		13.81398
21 Acrylonitrile	0.12179	0.15606	0.16216	0.17044	0.22550	0.19682					
	0.19402						AVRG		0.17525		19.15792
22 Freon 113	0.37471	0.37648	0.37645	0.38634	0.46152	0.40140					
	0.39439						AVRG		0.39590		7.74022
23 Methyl Acetate	0.57042	0.56242	0.59109	0.55555	0.68503	0.58123					
	0.56305						AVRG		0.58697		7.65098
24 Tert Butyl Alcohol (TBA)	0.45510	0.46014	0.47880	0.46533	0.59582	0.49564					
	0.46627						AVRG		0.48816		10.10981
25 Methylene chloride	0.28517	0.26726	0.27920	0.26065	0.31682	0.27234					
	0.26403						AVRG		0.27792		6.89510

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Allyl Chloride	0.05593	0.06004	0.06654	0.06366	0.06675	0.05889						
	0.05792							AVRG		0.06139		6.98432
27 Carbon Disulfide	7099	13839	38289	79743	982032	1869447						
	2717474							LINR	-0.00393	0.51038		0.99918
28 trans-1,2-dichloroethene	0.16912	0.15799	0.16168	0.16913	0.22614	0.20618						
	0.20977							AVRG		0.18572		14.79248
29 Methyl Tert Butyl Ether	0.50271	0.48427	0.51395	0.48385	0.60518	0.52845						
	0.52601							AVRG		0.52063		7.95040
30 Vinyl Acetate	0.47846	0.47768	0.52850	0.51242	0.70310	0.64983						
	0.67776							AVRG		0.57539		17.00388
31 1,1-Dichloroethane	0.37166	0.35503	0.37325	0.35264	0.46081	0.41940						
	0.43516							AVRG		0.39542		10.80300
33 Methyl Ethyl Ketone	0.09480	0.09787	0.09637	0.09115	0.11399	0.10248						
	0.10623							AVRG		0.10041		7.74342

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
34 n-Hexane	0.37658	0.38475	0.37634	0.35683	0.50855	0.41865					
	0.42251						AVRG		0.40632		12.53527
35 Di-isopropyl Ether	0.72753	0.70249	0.77868	0.72231	1.08991	0.83042					
	0.84262						AVRG		0.81342		16.40014
36 Ethyl Acetate	0.47217	0.44988	0.48052	0.45701	0.72851	0.54309					
	0.55091						AVRG		0.52601		18.60099
37 cis-1,2-Dichloroethene	0.19155	0.18614	0.18712	0.18122	0.30376	0.22505					
	0.22758						AVRG		0.21463		20.34256
38 Ethyl Tert-Butyl Ether	0.80112	0.78037	0.79843	0.80161	1.02279	0.81257					
	0.75319						AVRG		0.82430		10.87846
39 Chloroform	0.39590	0.40491	0.39714	0.40332	0.56380	0.46091					
	0.45220						AVRG		0.43974		13.85489
40 Tetrahydrofuran	0.25669	0.29226	0.27872	0.27090	0.37339	0.33830					
	0.35340						AVRG		0.30910		14.68480

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.47359	0.42743	0.47922	0.47328	0.65570	0.56804					
	0.56747						AVRG		0.52067		15.19183
42 1,2-Dichloroethane	0.39971	0.38077	0.40792	0.39339	0.50158	0.44026					
	0.43952						AVRG		0.42331		9.72847
43 Benzene	0.70081	0.71483	0.72670	0.67277	0.89409	0.78051					
	0.77122						AVRG		0.75156		9.76099
44 Carbon tetrachloride	0.35716	0.35580	0.44000	0.43581	0.63417	0.54929					
	0.54191						AVRG		0.47345		22.18109
45 Cyclohexane	0.42466	0.36862	0.41591	0.41096	0.51183	0.44405					
	0.42774						AVRG		0.42911		10.09075
46 Tert Amyl Methyl Ether	34911	48921	96808	165850	1592959	2903397					
	4171919						LINR	0.01414	0.78074		0.99848
48 2,2,4-Trimethylpentane	1.29692	1.24840	1.34005	1.28499	1.58041	1.25992					
	1.13981						AVRG		1.30721		10.35942

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
49 Heptane	0.44904	0.46192	0.45922	0.45073	0.59579	0.53372					
	0.54162						AVRG		0.49886		11.62365
50 1,2-Dichloropropane	0.28812	0.25854	0.26989	0.26547	0.36088	0.31894					
	0.32343						AVRG		0.29790		12.66674
51 Trichloroethene	0.34050	0.34330	0.35304	0.35364	0.46273	0.41315					
	0.41602						AVRG		0.38320		12.37747
52 Methyl methacrylate	0.19128	0.22415	0.22222	0.22679	0.31593	0.28359					
	0.28537						AVRG		0.24990		18.00880
53 1,4-Dioxane	0.16970	0.14386	0.18084	0.16319	0.24209	0.20581					
	0.19628						AVRG		0.18596		17.33189
54 Bromodichloromethane	7702	16391	47273	100637	1178006	2134763					
	3023630						LINR	0.00431	0.57159		0.99791
55 Methylcyclohexane	0.17816	0.18778	0.19765	0.19208	0.25895	0.23459					
	0.24126						AVRG		0.21292		14.72598

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
56 Methyl Isobutyl Ketone	0.58162	0.56638	0.64442	0.61285	0.81162	0.69293					
	0.65793						AVRG		0.65254		12.67781
57 cis-1,3-Dichloropropene	5856	13323	37776	77747	939571	1791065					
	2582667						LINR	-0.00281	0.48600		0.99925
58 trans-1,3-Dichloropropene	4499	10341	29568	63447	849630	1650392					
	2427525						LINR	-0.00743	0.45505		0.99926
60 1,1,2-Trichloroethane	0.26268	0.26841	0.29072	0.28566	0.36947	0.32550					
	0.32024						AVRG		0.30324		12.40912
61 Toluene	0.89586	0.79620	0.88427	0.83987	1.08702	0.96008					
	0.94570						AVRG		0.91557		10.32637
62 Methyl Butyl Ketone	0.79772	0.81517	0.86153	0.86259	1.13776	0.99146					
	0.91057						AVRG		0.91097		13.04271
63 n-Octane	0.99967	0.95533	1.06731	1.02187	1.19764	1.05263					
	1.01381						AVRG		1.04404		7.36247

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
64 Dibromochloromethane	6681	14918	43549	95227	1271324	2394030					
	3444502						QUAD	-0.01287	1.07930	-0.05346	0.99946
65 1,2-Dibromoethane	0.69300	0.72322	0.74008	0.74942	0.93817	0.83731					
	0.81211						AVRG		0.78476		10.72398
66 Tetrachloroethene	0.88450	0.81259	0.81127	0.79454	0.87411	0.77084					
	0.75257						AVRG		0.81435		6.05879
68 Chlorobenzene	1.14392	1.14215	1.16436	1.14122	1.37391	1.23533					
	1.20150						AVRG		1.20034		7.02886
69 Ethyl Benzene	1.76188	1.76258	1.87447	1.84361	2.17516	1.92861					
	1.82722						AVRG		1.88193		7.55647
70 m&p-Xylene	1.34609	1.33838	1.47445	1.44627	1.63434	1.38975					
	1.27935						AVRG		1.41552		8.27277
71 n-Nonane	0.83247	0.83961	0.92828	0.95858	1.09709	0.92970					
	0.84464						AVRG		0.91862		10.21211

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
72 Bromoform	3873	8852	28792	60035	994818	1854041					
	2619674						QUAD	-0.01553	0.86326	-0.05411	0.99940
73 Styrene	0.89617	0.96519	1.02093	1.01222	1.26747	1.12287					
	1.07969						AVRG		1.05208		11.41826
74 o-Xylene	1.36387	1.39546	1.46094	1.44166	1.65817	1.46394					
	1.40021						AVRG		1.45489		6.66538
75 1,1,2,2-Tetrachloroethane	0.64521	0.65675	0.70986	0.71869	0.96654	0.87595					
	0.85268						AVRG		0.77510		15.90213
76 Isopropylbenzene	1.83805	1.91302	1.98650	1.96884	2.28149	2.01006					
	1.91787						AVRG		1.98798		7.11440
77 N-Propylbenzene	1.57574	1.71248	1.99954	2.03960	2.60043	2.30149					
	2.19996						AVRG		2.06132		16.91354
78 4-Ethyltoluene	1.31672	1.43330	1.67191	1.71401	2.18149	1.96884					
	1.89345						AVRG		1.73996		17.39078

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	1.27148	1.26689	1.48346	1.49720	1.85144	1.63667					
	1.57030						AVRG		1.51106		13.59269
80 n-Decane	8443	18589	50512	105755	1404513	2710658					
	3875989						LINR	-0.00620	0.73170		0.99938
81 Tert-Butyl Benzene	1.40007	1.45925	1.62039	1.59399	1.90141	1.64077					
	1.55173						AVRG		1.59537		10.07218
82 1,2,4-Trimethylbenzene	1.22241	1.15791	1.36717	1.35057	1.68822	1.44664					
	1.35242						AVRG		1.36933		12.45741
83 1,3-Dichlorobenzene	7405	14378	41995	91614	1294688	2415338					
	3410621						QUAD	-0.01576	1.12012	-0.06965	0.99949
84 Sec- Butylbenzene	1.80664	1.82161	1.97653	1.94216	2.41389	2.04730					
	1.90301						AVRG		1.98731		10.37213
86 Benzyl Chloride	3612	6150	17889	41629	1255068	2627518					
	3897775						LINR	-0.02986	1.05212		0.99968

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
87 1,4-Dichlorobenzene	6984	14140	41493	84162	1284979	2503713					
	3628632						LINR	0.00079	0.98060		0.99872
88 p-Isopropyltoluene	1.37802	1.38636	1.51074	1.54883	2.06878	1.82502					
	1.74340						AVRG		1.63731		15.50563
89 1,2,3-Trimethylbenzene	1.12338	1.11943	1.26369	1.26993	1.64865	1.46396					
	1.40080						AVRG		1.32712		14.41134
90 1,2-Dichlorobenzene	6129	13826	37547	77914	1213886	2355982					
	3442996						QUAD	-0.01588	1.02318	-0.03424	0.99959
91 N-Butylbenzene	8636	17717	58227	126541	1956695	3751898					
	5346956						QUAD	-0.02957	1.69313	-0.08711	0.99965
92 1,2-Dibromo-3-Chloropropane	765	1716	7188	16753	397742	838929					
	1282136						LINR	-0.01138	0.34303		0.99960
93 1,2,4-Trichlorobenzene	+++++	533	3385	8856	306602	730178					
	1195809						QUAD	-0.00994	0.23516	0.02908	0.99989

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	1420	3072	14223	34038	844564	1864986					
	2958201						QUAD	-0.01822	0.66377	0.04352	0.99982
95 Hexachlorobutadiene	2940	6121	16296	32853	396921	787402					
	1155441						LINR	0.00076	0.31023		0.99946
$ 32 Hexane-d14(S)	0.38172	0.37229	0.38249	0.37548	0.37347	0.38920					
	0.39795						AVRG		0.38180		2.42896
$ 59 Toluene-d8 (S)	0.80073	0.78989	0.81795	0.80588	0.87515	0.89373					
	0.92714						AVRG		0.84435		6.35709
$ 85 1,4-dichlorobenzene-d4 (S)	0.35705	0.37096	0.39195	0.42324	0.53721	0.54382					
	0.56730						AVRG		0.45593		19.79963

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Average %RSD Results.	
Calculated Average %RSD =	12.07017
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08841.D
Report Date: 03-Apr-2017 09:06

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08841.D
Lab Smp Id: cal1
Inj Date : 30-MAR-2017 05:04
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 03-Apr-2017 09:04 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 41 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.960	2.951	(0.529)	7661	0.10000	0.0986
2	1,1-Difluoroethane	65	3.025	3.025	(0.540)	3265	0.10000	0.0912
3	Chlorodifluoromethane	67	3.044	3.034	(0.544)	1423	0.10000	0.0937(QM)
4	Propylene	41	3.047	3.038	(0.544)	4827	0.10000	0.103
5	Dichlorodifluoromethane	85	3.073	3.070	(0.549)	18244	0.10000	0.112
6	Chloromethane	50	3.169	3.166	(0.566)	6517	0.10000	0.0918
7	Dichlorotetrafluoroethane	85	3.173	3.176	(0.567)	13507	0.10000	0.0916
8	Vinyl chloride	62	3.250	3.247	(0.581)	6041	0.10000	0.102
9	1,3-Butadiene	54	3.282	3.288	(0.586)	4529	0.10000	0.0990
10	Bromomethane	94	3.420	3.423	(0.611)	4396	0.10000	0.0960
11	Chloroethane	64	3.472	3.475	(0.620)	2142	0.10000	0.179
12	Ethanol	45	3.562	3.552	(0.636)	9655	0.50000	0.448(M)
13	Vinyl Bromide	106	3.574	3.591	(0.639)	3854	0.10000	0.0885
14	Isopentane	43	3.597	3.607	(0.643)	5983	0.10000	0.0980
15	Freon 123	83	3.600	3.642	(0.643)	9287	0.10000	0.128
16	Trichlorofluoromethane	101	3.671	3.681	(0.656)	10309	0.10000	0.0888
17	Acrolein	56	3.693	3.690	(0.660)	3881	0.25000	0.216
18	Acetone	43	3.742	3.729	(0.669)	39682	0.50000	0.486
19	Isopropyl Alcohol	45	3.780	3.777	(0.675)	40400	0.50000	0.448(M)
20	1,1-Dichloroethene	61	3.902	3.919	(0.697)	7209	0.10000	0.0886
21	Acrylonitrile	53	3.915	3.935	(0.700)	6870	0.25000	0.174(QH)
22	Freon 113	101	3.938	3.957	(0.704)	8455	0.10000	0.0946
23	Methyl Acetate	43	3.973	3.967	(0.710)	12871	0.10000	0.0972

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08841.D
Report Date: 03-Apr-2017 09:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.983	3.964	(0.712)	25672	0.25000	0.233(Q)
	25 Methylene chloride	49	3.989	4.012	(0.713)	32173	0.50000	0.513
	26 Allyl Chloride	76	4.002	4.025	(0.715)	3155	0.25000	0.228(Q)
	27 Carbon Disulfide	76	4.115	4.134	(0.735)	7099	0.10000	0.139
	28 trans-1,2-dichloroethene	96	4.263	4.282	(0.762)	3816	0.10000	0.0911
	29 Methyl Tert Butyl Ether	73	4.324	4.308	(0.773)	28358	0.25000	0.241
	30 Vinyl Acetate	43	4.381	4.394	(0.783)	10796	0.10000	0.0832
	31 1,1-Dichloroethane	63	4.388	4.417	(0.784)	8386	0.10000	0.0940
$	32 Hexane-d14(S)	66	4.484	4.491	(0.801)	861303	10.0000	10.0
	33 Methyl Ethyl Ketone	72	4.571	4.562	(0.817)	2139	0.10000	0.0944(Q)
	34 n-Hexane	57	4.581	4.591	(0.818)	8497	0.10000	0.0927(QM)
	35 Di-isopropyl Ether	45	4.607	4.610	(0.823)	16416	0.10000	0.0894
	36 Ethyl Acetate	43	4.732	4.722	(0.845)	10654	0.10000	0.0898
	37 cis-1,2-Dichloroethene	96	4.706	4.732	(0.841)	4322	0.10000	0.0892(Q)
	38 Ethyl Tert-Butyl Ether	59	4.835	4.835	(0.864)	45191	0.25000	0.243
	39 Chloroform	83	4.822	4.845	(0.862)	8933	0.10000	0.0900
	40 Tetrahydrofuran	42	5.021	4.999	(0.897)	5792	0.10000	0.0830
	41 1,1,1-Trichloroethane	97	5.217	5.237	(0.932)	10686	0.10000	0.0910
	42 1,2-Dichloroethane	62	5.217	5.243	(0.932)	9019	0.10000	0.0944
	43 Benzene	78	5.455	5.472	(0.975)	15813	0.10000	0.0932
	44 Carbon tetrachloride	117	5.475	5.491	(0.978)	8059	0.10000	0.0754
	45 Cyclohexane	56	5.478	5.494	(0.979)	9582	0.10000	0.0990
	46 Tert Amyl Methyl Ether	73	5.600	5.610	(1.001)	34911	0.10000	0.0170(aQ)
*	47 1,4-Difluorobenzene	114	5.597	5.616	(1.000)	2256388	10.0000	
	48 2,2,4-Trimethylpentane	57	5.761	5.774	(1.029)	73159	0.25000	0.248
	49 Heptane	43	5.880	5.896	(1.051)	10132	0.10000	0.0900
	50 1,2-Dichloropropane	63	5.957	5.970	(1.064)	6501	0.10000	0.0967
	51 Trichloroethene	130	5.973	5.992	(1.067)	7683	0.10000	0.0889
	52 Methyl methacrylate	69	6.053	6.050	(1.082)	4316	0.10000	0.0765
	53 1,4-Dioxane	88	6.102	6.070	(1.090)	3829	0.10000	0.0913(Q)
	54 Bromodichloromethane	83	6.066	6.089	(1.084)	7702	0.10000	(a)
	55 Methylcyclohexane	98	6.417	6.436	(1.146)	4020	0.10000	0.0837(Q)
	56 Methyl Isobutyl Ketone	43	6.542	6.533	(1.169)	32809	0.25000	0.223
	57 cis-1,3-Dichloropropene	75	6.581	6.587	(1.176)	5856	0.10000	0.111
	58 trans-1,3-Dichloropropene	75	6.979	6.986	(1.247)	4499	0.10000	0.207
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	1806747	10.0000	9.48
	60 1,1,2-Trichloroethane	97	7.137	7.147	(1.275)	5927	0.10000	0.0866
	61 Toluene	91	7.147	7.153	(1.277)	20214	0.10000	0.0978
	62 Methyl Butyl Ketone	43	7.388	7.375	(0.855)	24953	0.25000	0.219
	63 n-Octane	43	7.578	7.584	(0.877)	12508	0.10000	0.0957
	64 Dibromochloromethane	129	7.658	7.680	(0.886)	6681	0.10000	0.169
	65 1,2-Dibromoethane	107	7.902	7.909	(0.915)	8671	0.10000	0.0883
	66 Tetrachloroethene	166	7.976	7.989	(0.923)	11067	0.10000	0.109
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	1251219	10.0000	
	68 Chlorobenzene	112	8.680	8.687	(1.005)	14313	0.10000	0.0953
	69 Ethyl Benzene	91	8.928	8.938	(1.033)	22045	0.10000	0.0936
	70 m&p-Xylene	91	9.073	9.082	(1.050)	33685	0.20000	0.190
	71 n-Nonane	43	9.468	9.471	(1.096)	10416	0.10000	0.0906
	72 Bromoform	173	9.475	9.481	(1.097)	3873	0.10000	0.216
	73 Styrene	104	9.507	9.507	(1.100)	11213	0.10000	0.0852
	74 o-Xylene	91	9.571	9.581	(1.108)	17065	0.10000	0.0937
	75 1,1,2,2-Tetrachloroethane	83	9.825	9.831	(1.137)	8073	0.10000	0.0832
	76 Isopropylbenzene	105	10.153	10.163	(1.175)	22998	0.10000	0.0925
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	19716	0.10000	0.0764

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08841.D
Report Date: 03-Apr-2017 09:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.263)	16475	0.10000	0.0757
79	1,3,5-Trimethylbenzene	105	10.992	11.002	(1.272)	15909	0.10000	0.0841
80	n-Decane	57	11.368	11.378	(2.031)	8443	0.10000	0.136
81	Tert-Butyl Benzene	119	11.491	11.497	(1.330)	17518	0.10000	0.0878
82	1,2,4-Trimethylbenzene	105	11.507	11.510	(1.332)	15295	0.10000	0.0893
83	1,3-Dichlorobenzene	146	11.793	11.796	(1.365)	7405	0.10000	0.194
84	Sec- Butylbenzene	105	11.802	11.806	(1.366)	22605	0.10000	0.0909
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.854	(1.371)	446743	10.0000	7.83
86	Benzyl Chloride	91	11.847	11.867	(1.371)	3612	0.10000	0.311
87	1,4-Dichlorobenzene	146	11.883	11.889	(1.376)	6984	0.10000	0.0489(aQ)
88	p-Isopropyltoluene	119	11.986	11.989	(1.387)	17242	0.10000	0.0842
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	14056	0.10000	0.0846
90	1,2-Dichlorobenzene	146	12.281	12.282	(1.422)	6129	0.10000	0.203
91	N-Butylbenzene	91	12.462	12.458	(1.443)	8636	0.10000	0.216
92	1,2-Dibromo-3-Chloropropane	157	12.902	12.905	(1.494)	765	0.10000	0.350(M)
93	1,2,4-Trichlorobenzene	180	14.079	14.040	(1.630)	58	0.10000	0.422(QM)
94	Naphthalene	128	14.166	14.172	(1.640)	1420	0.10000	0.291(M)
95	Hexachlorobutadiene	225	14.410	14.413	(1.668)	2940	0.10000	0.0513(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08841.D
Report Date: 03-Apr-2017 09:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08841.D
Lab Smp Id: cal1
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info:

Calibration Date: 30-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

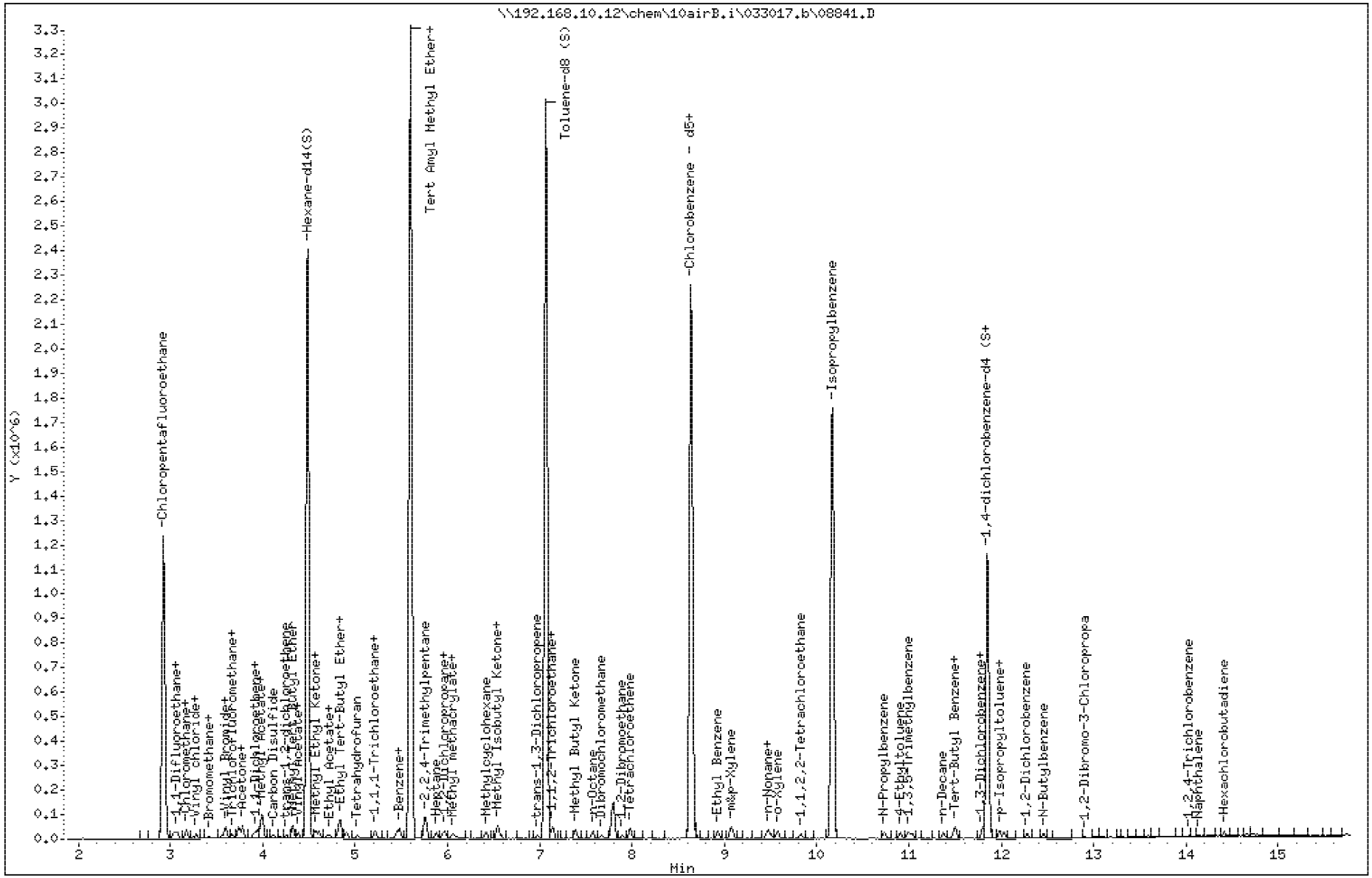
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	2256388	23.81
67 Chlorobenzene - d	1204744	722846	1686642	1251219	3.86

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.60	-0.34
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

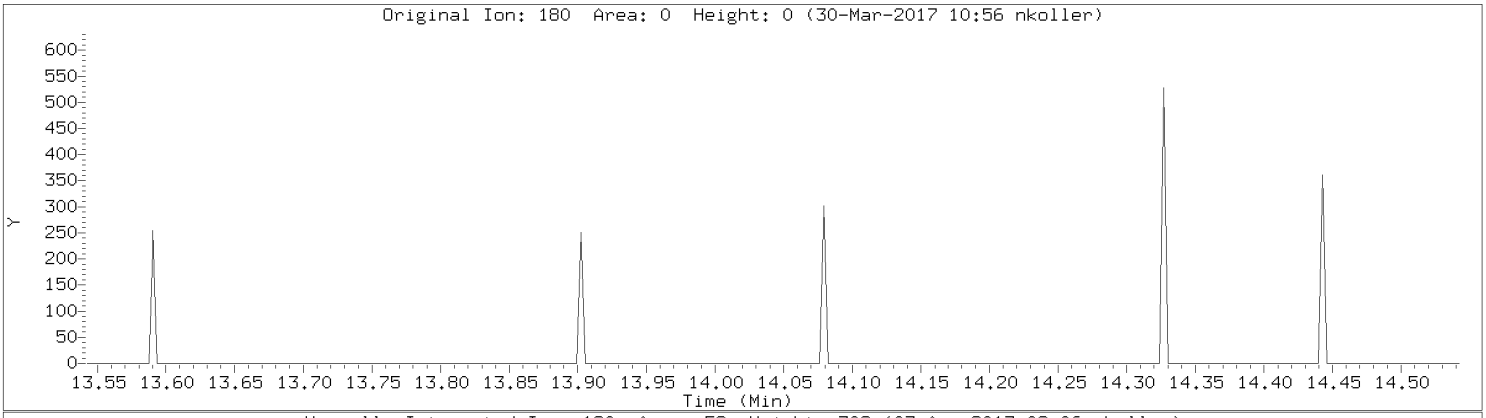
Data File: \\192.168.10.12\chem\10airB.i\033017.b\08841.D
Date : 30-MAR-2017 05:04
Client ID:
Sample Info:

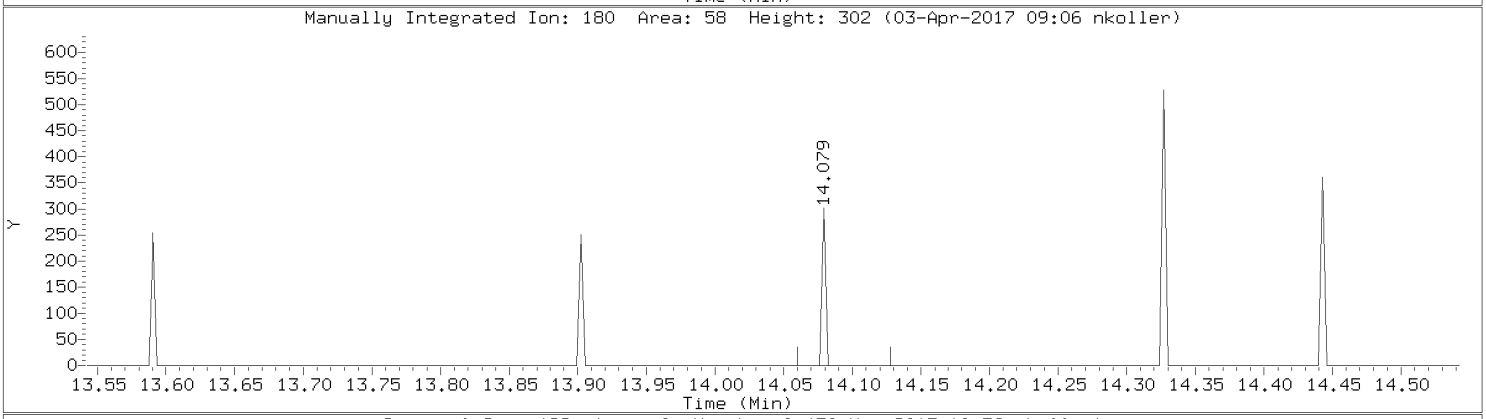
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

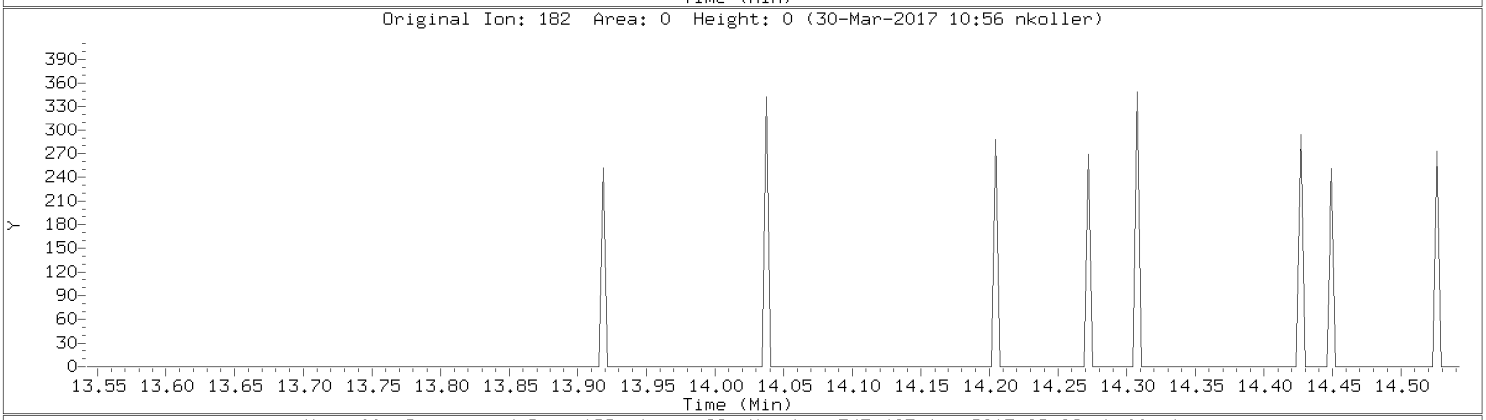


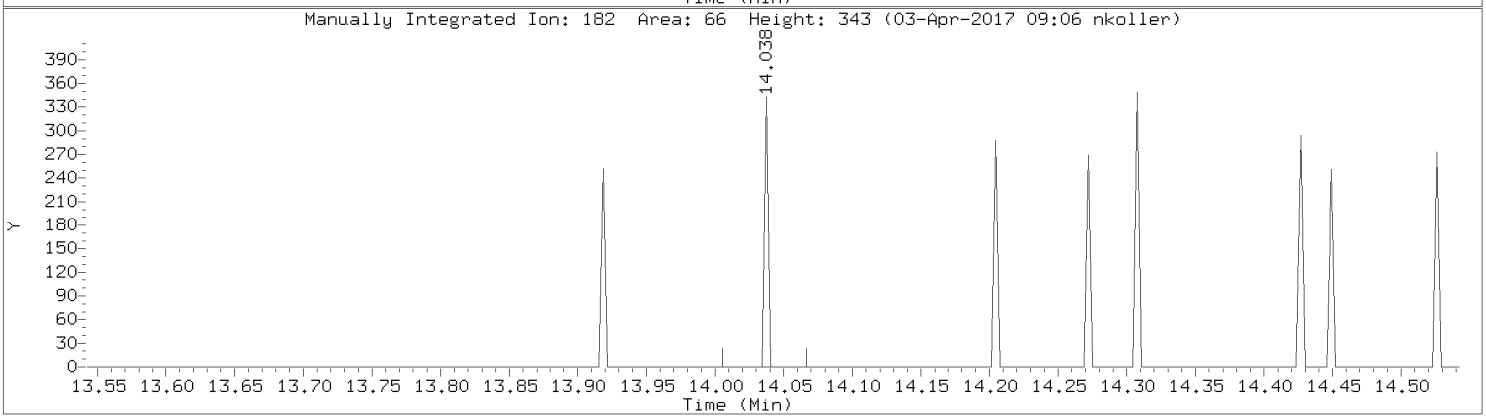
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

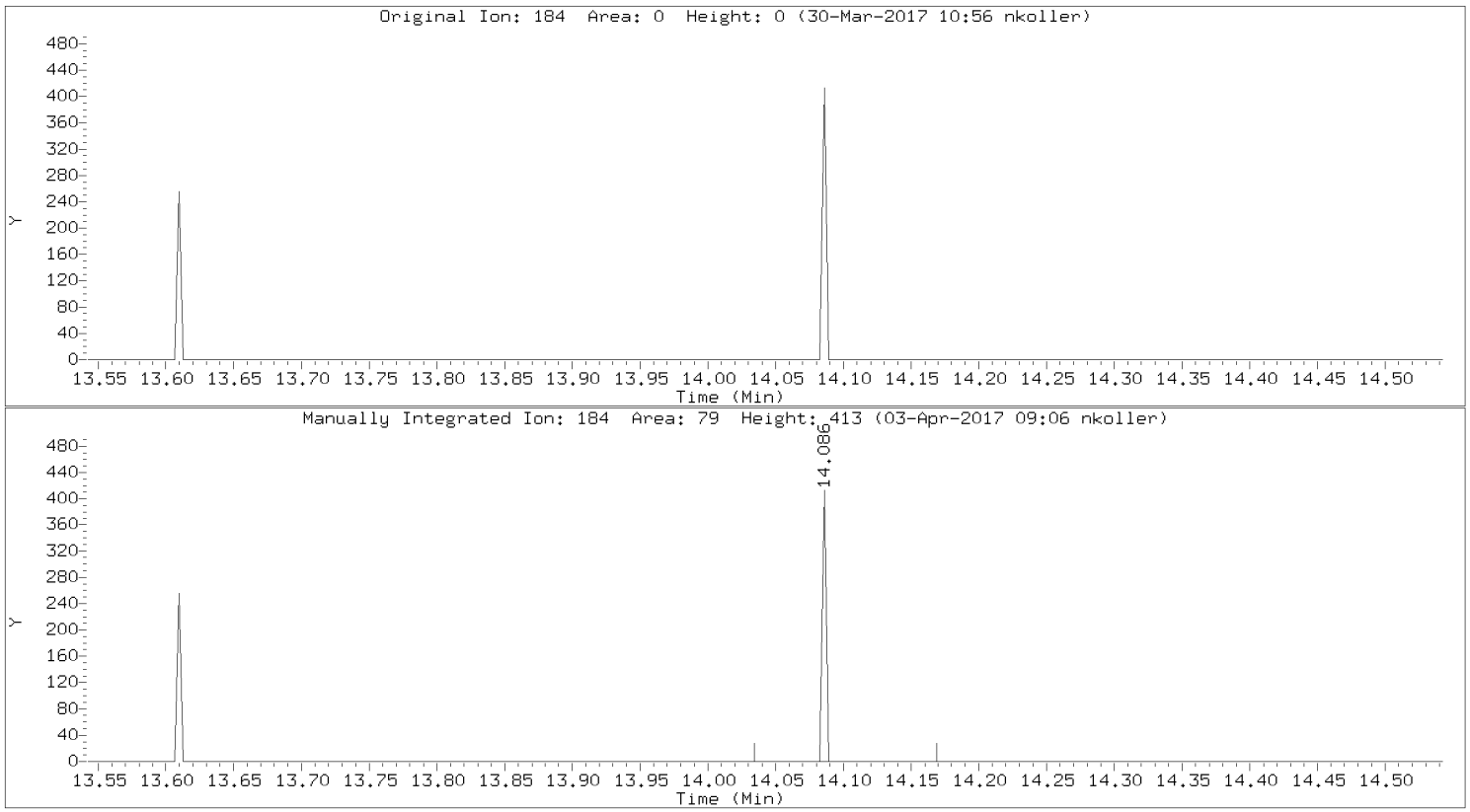






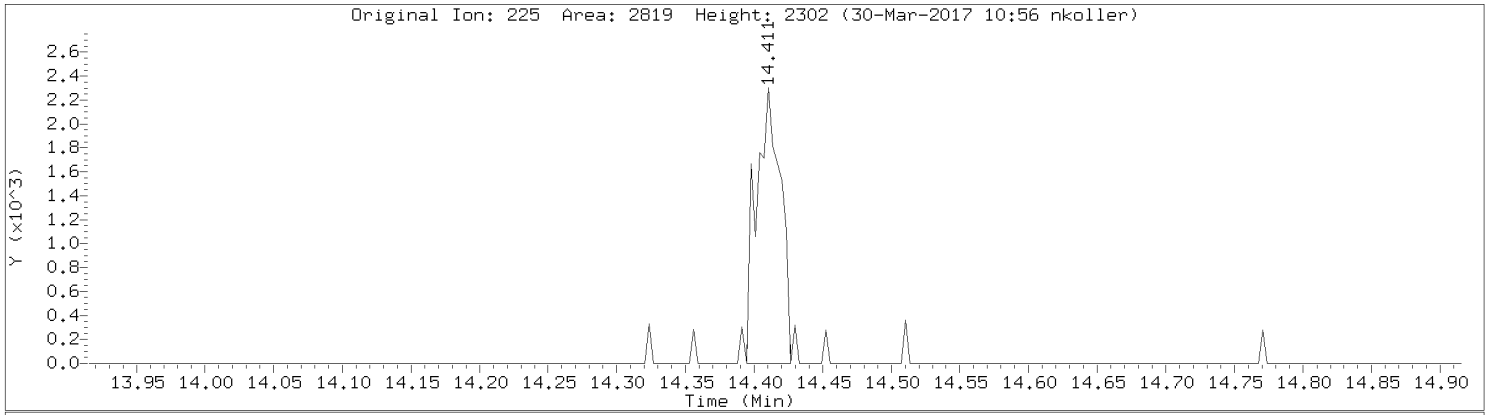


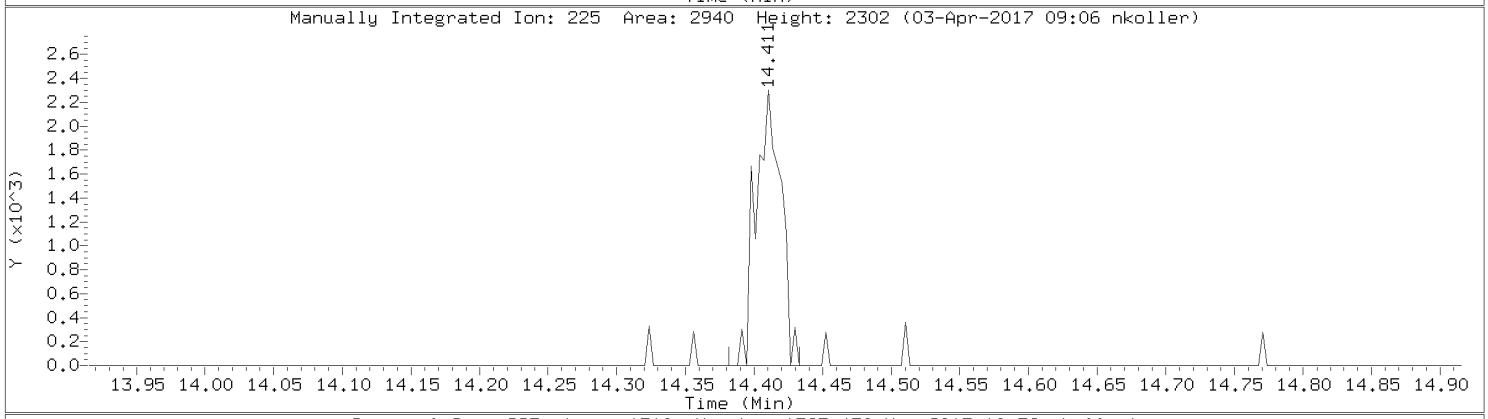
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: call

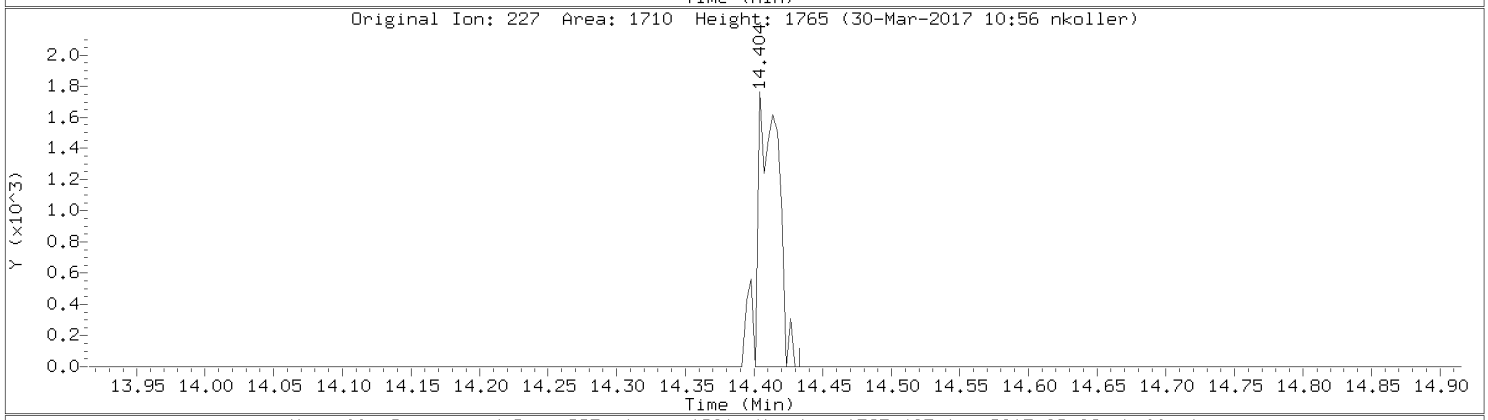


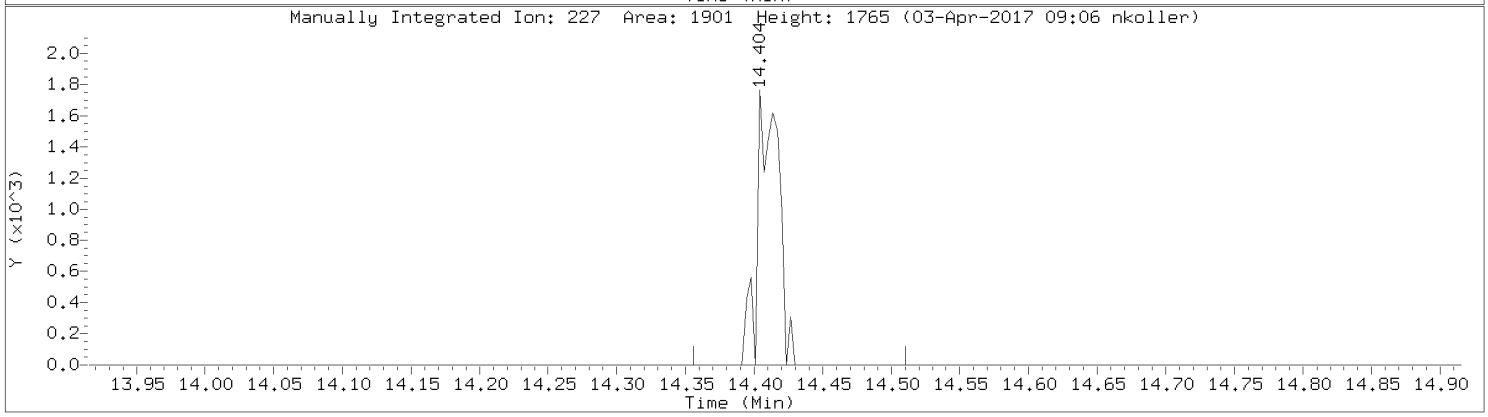
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Hexachlorobutadiene
CAS Number: 87-68-3

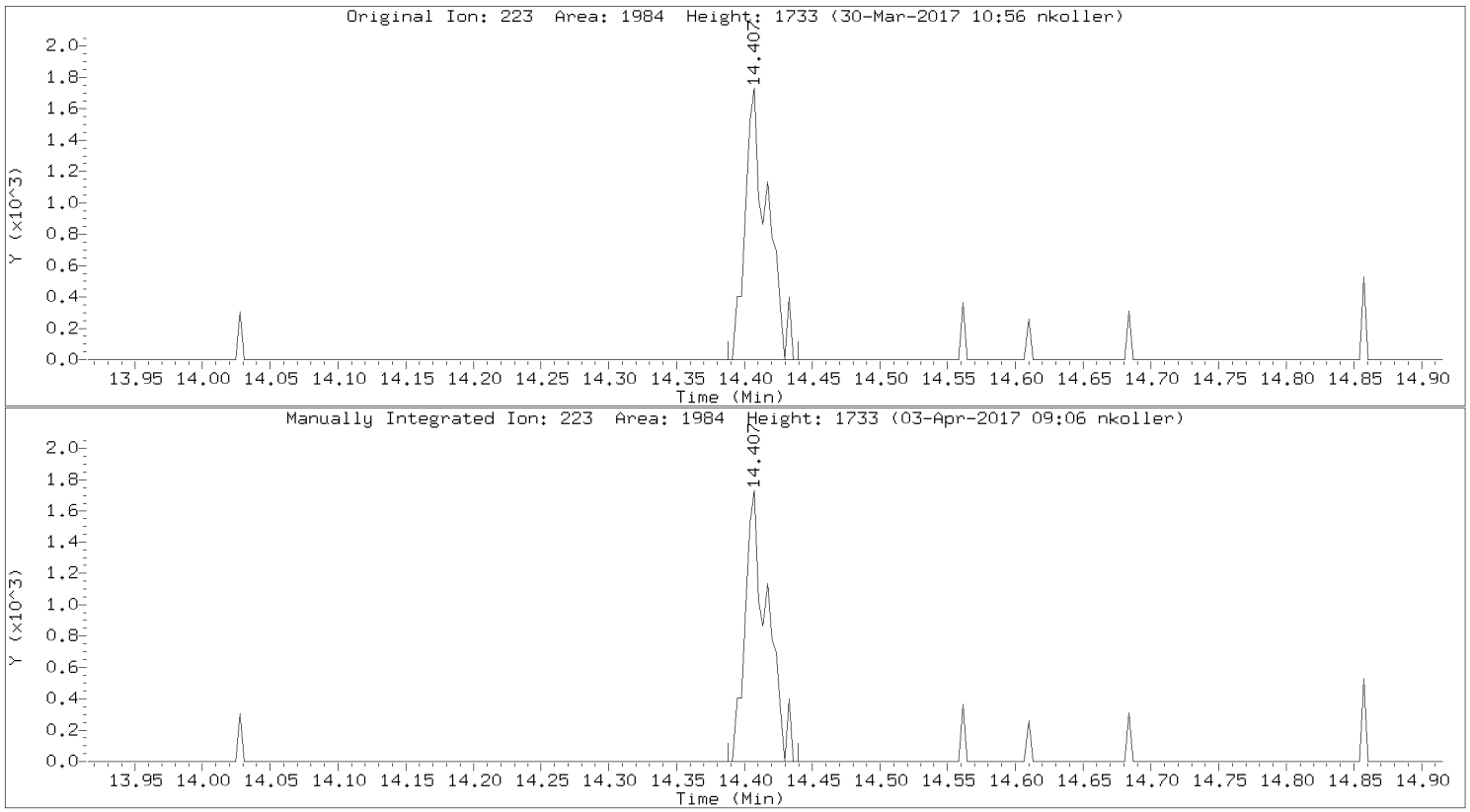






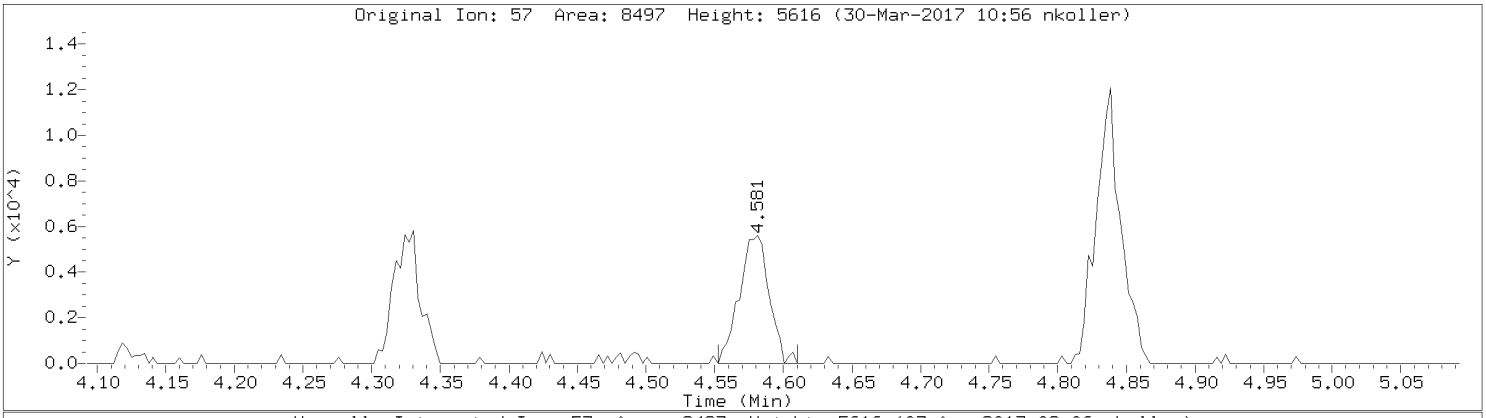


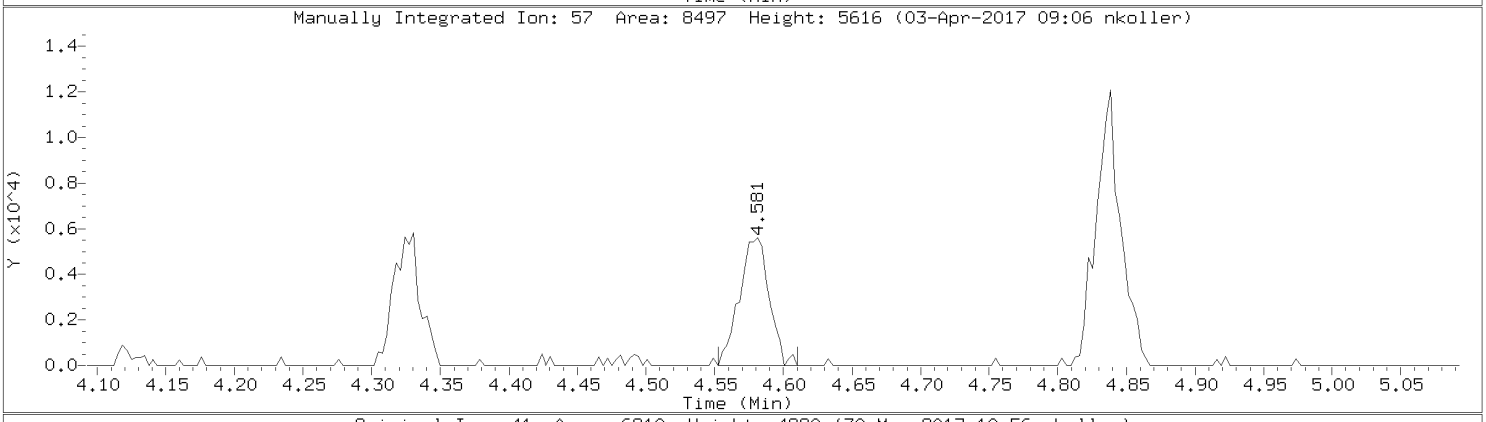
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: call

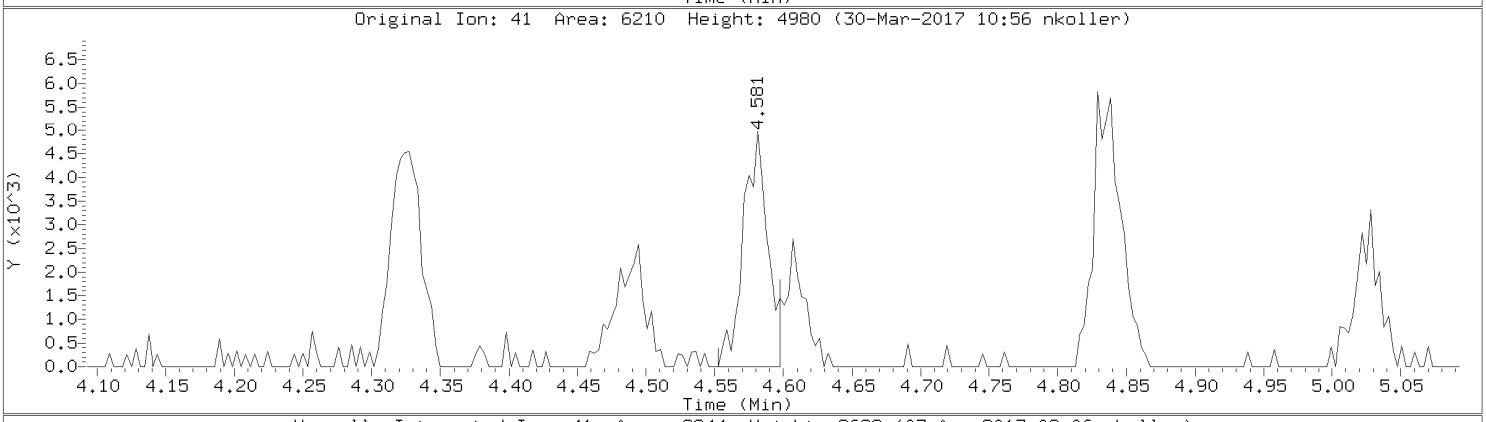


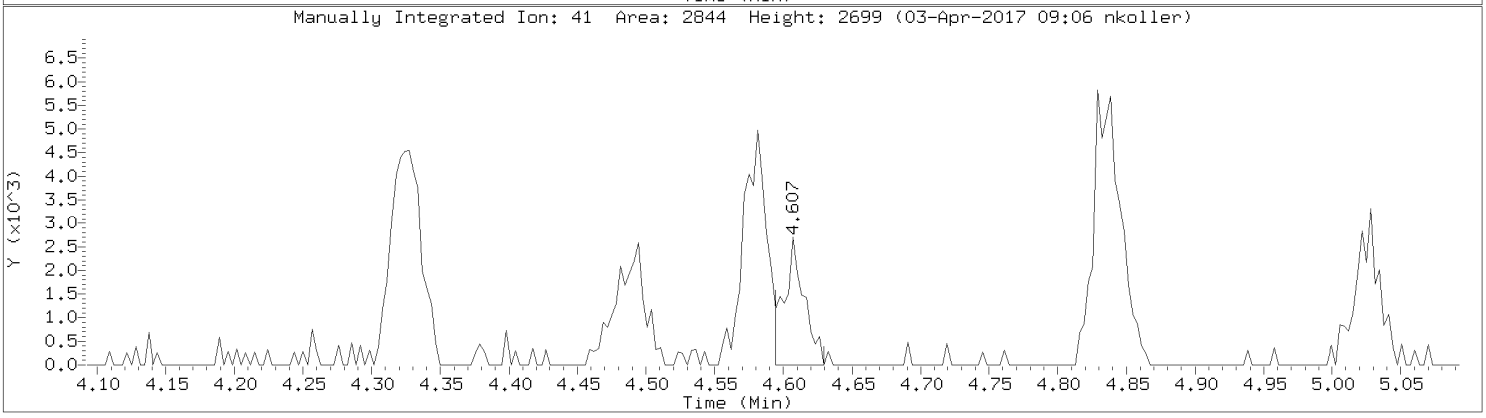
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: n-Hexane
CAS Number: 110-54-3

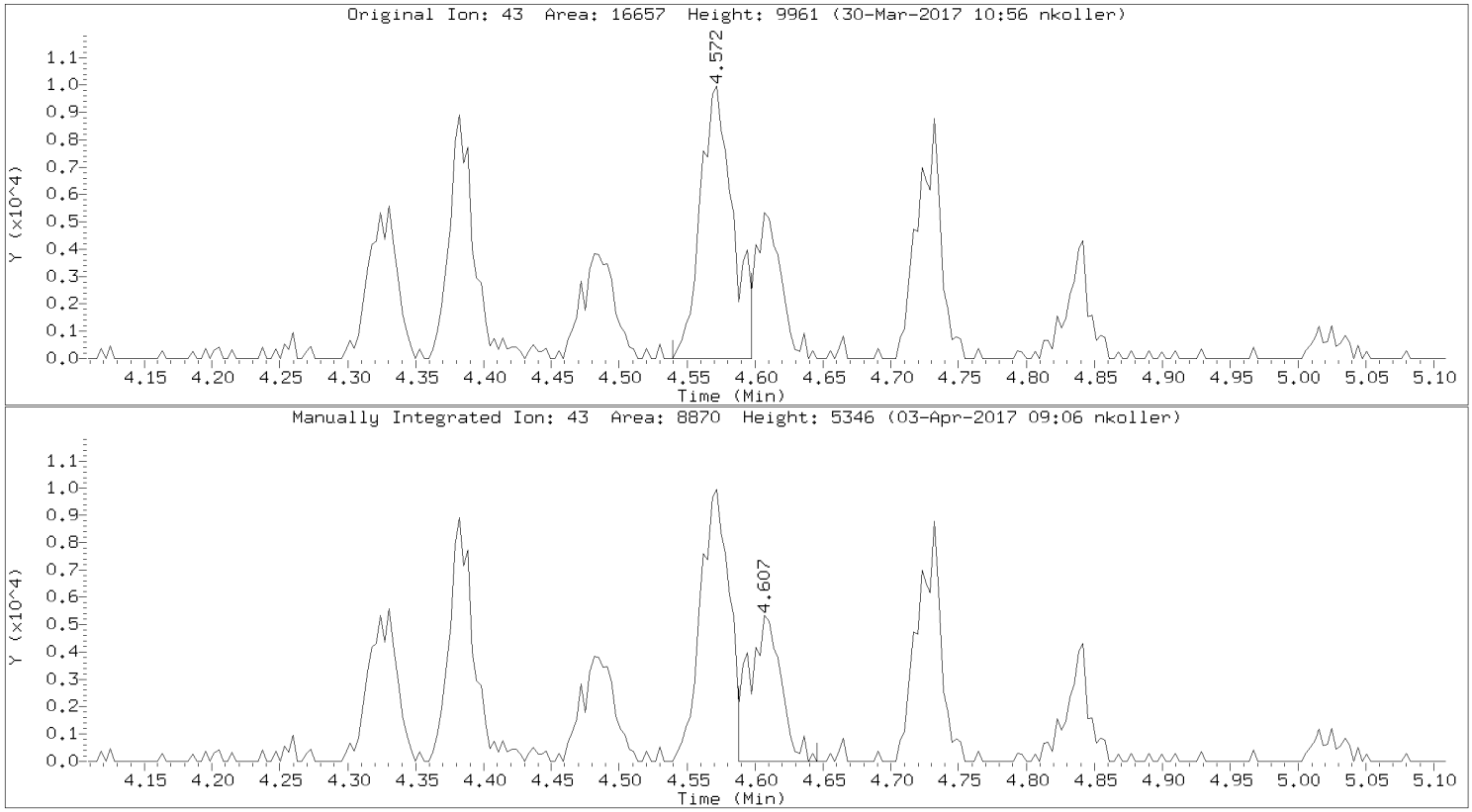






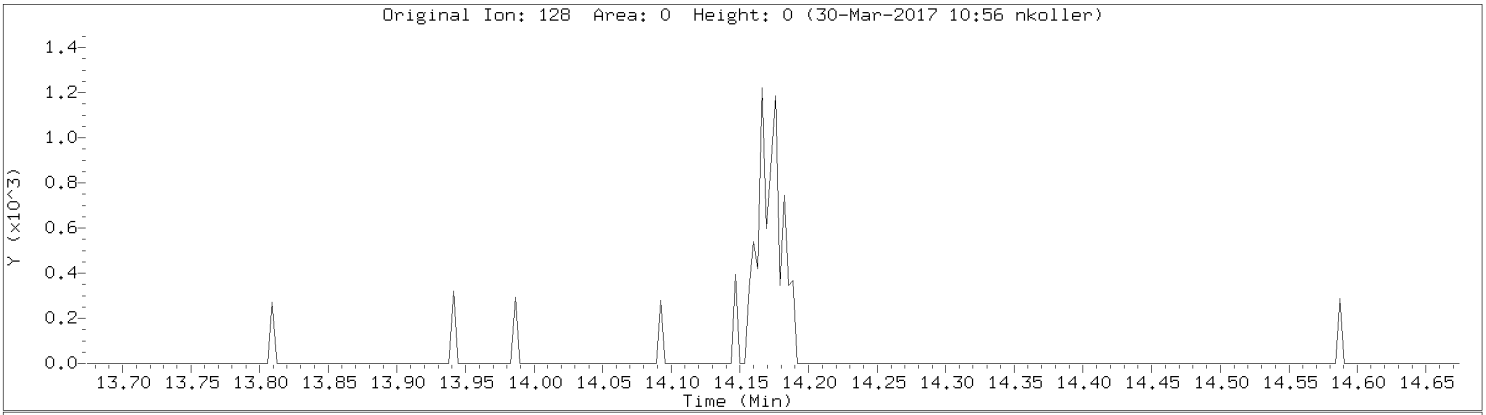


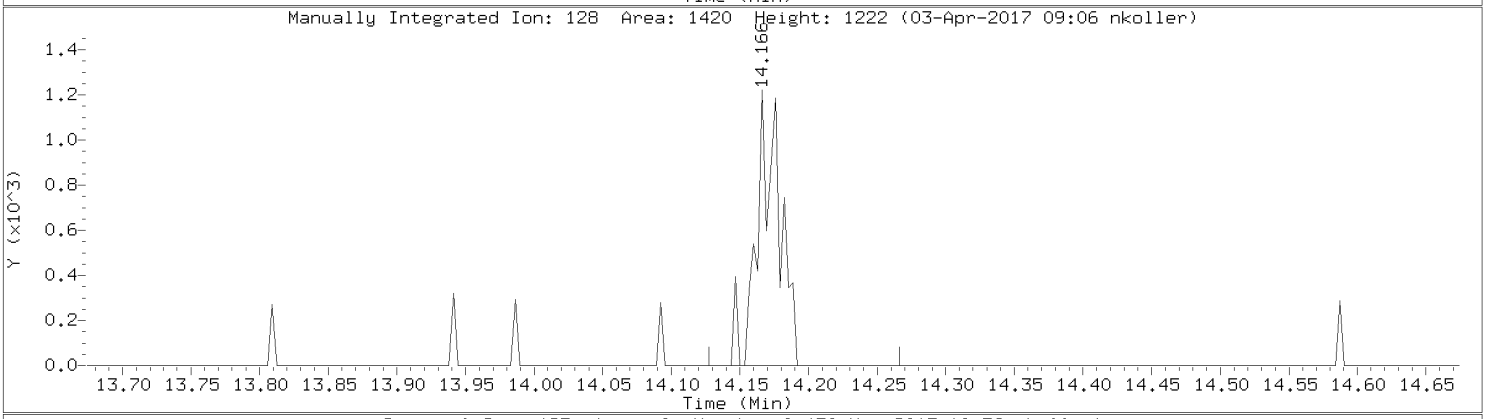
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: call

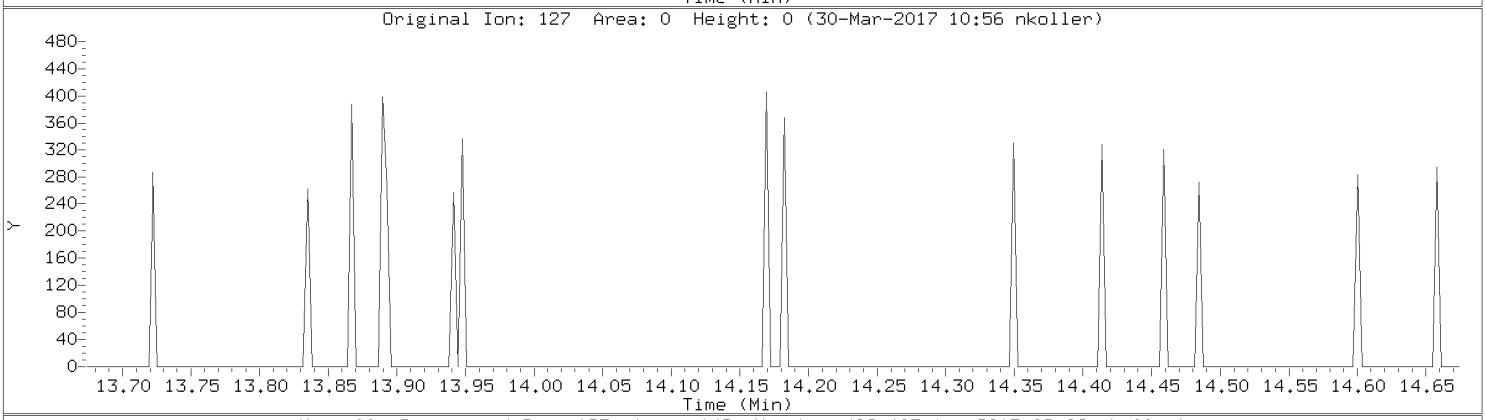


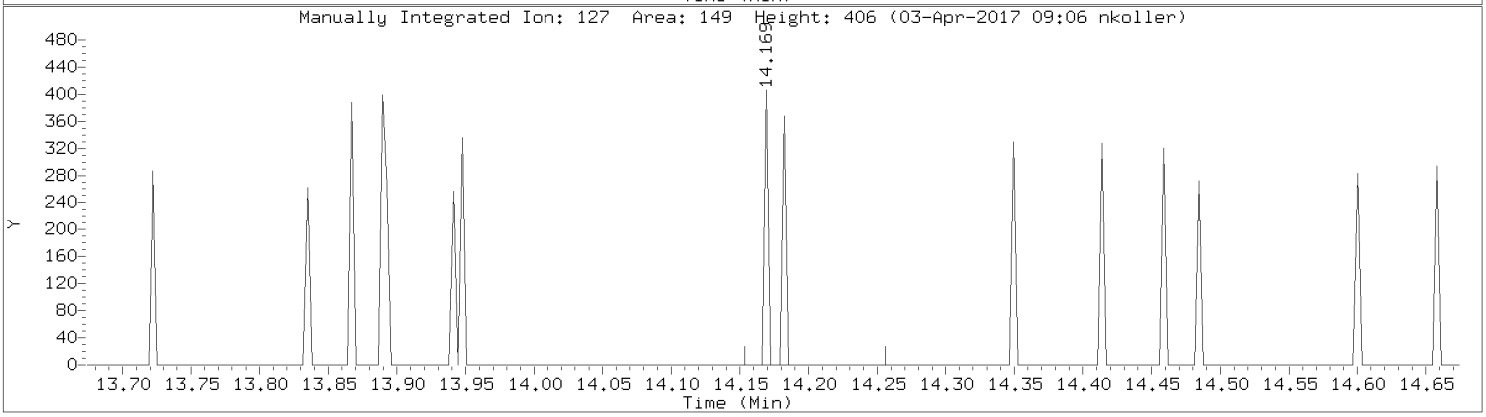
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Naphthalene
CAS Number: 91-20-3



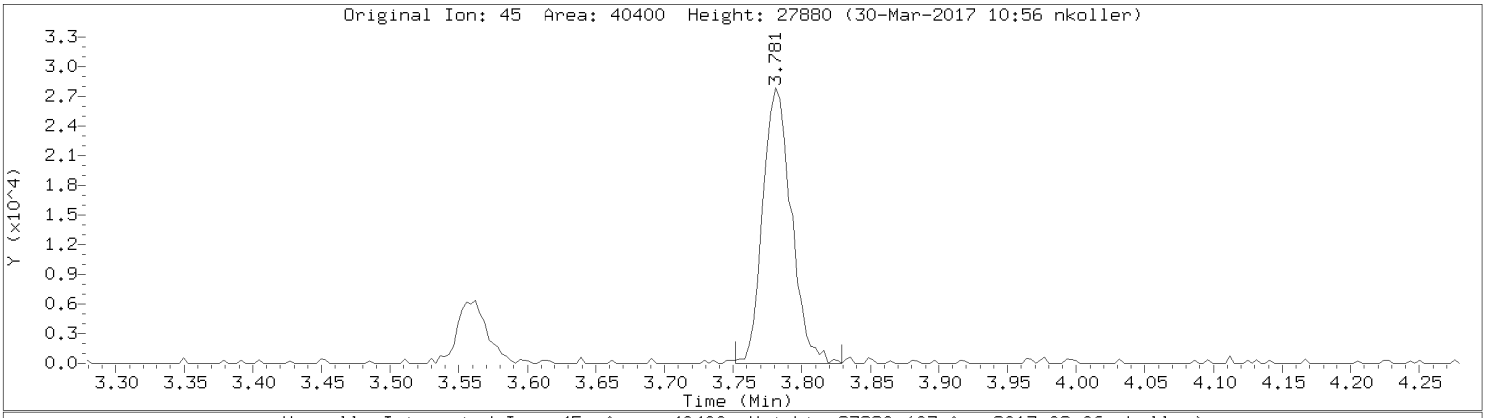


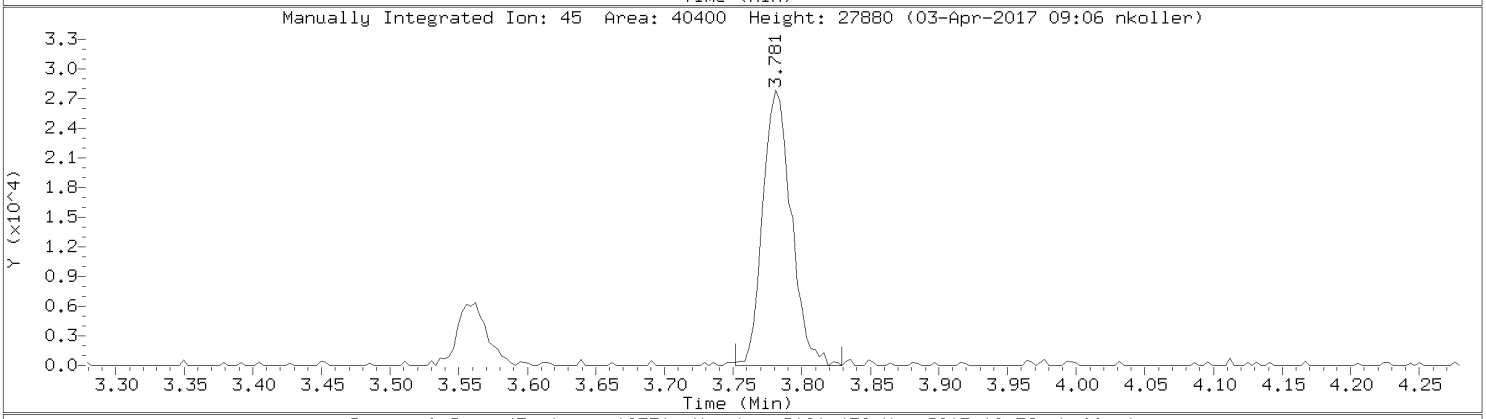


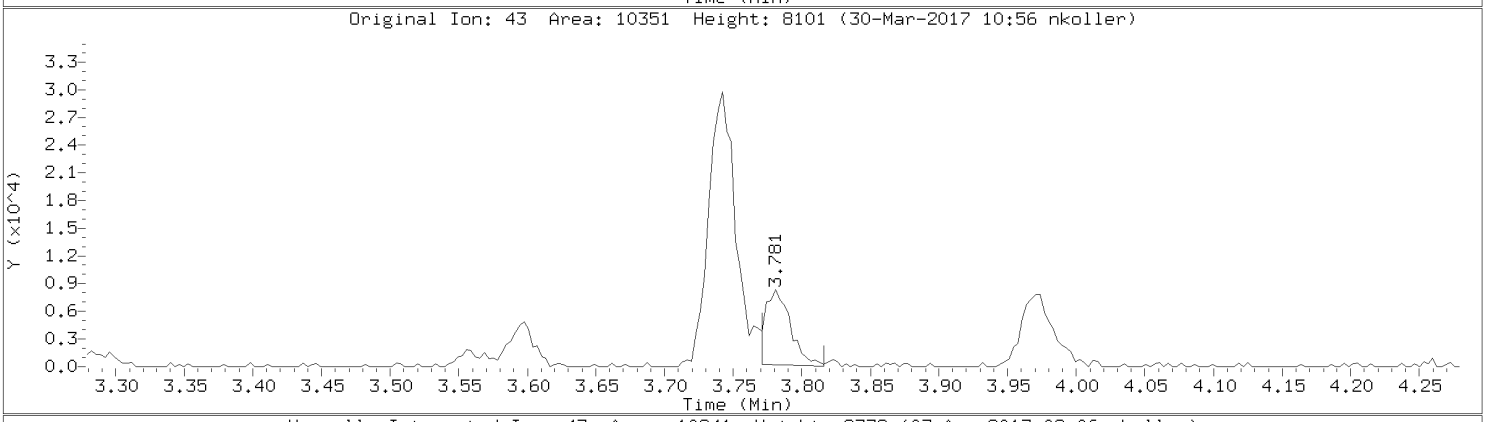


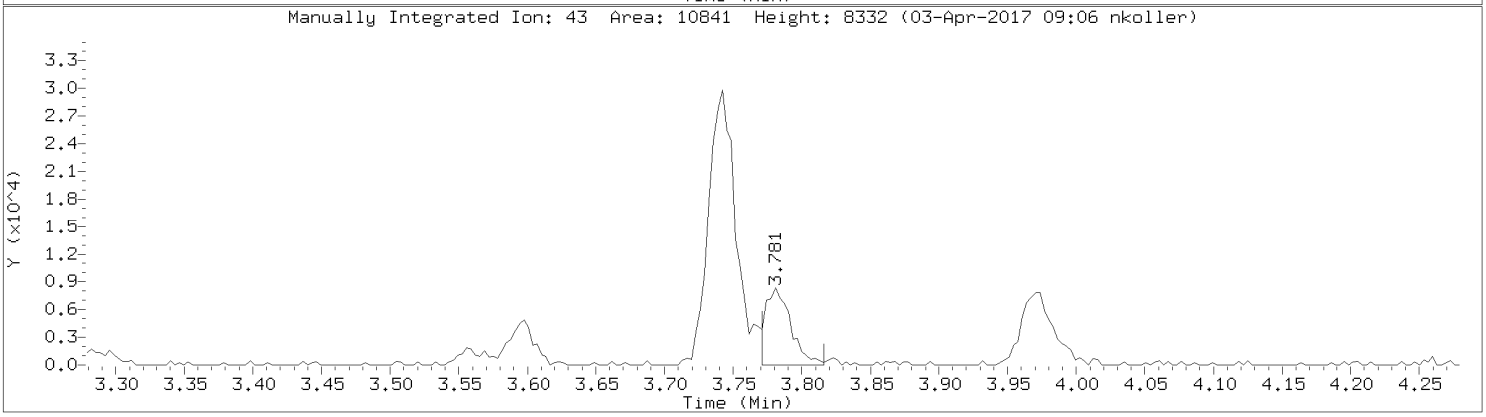
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



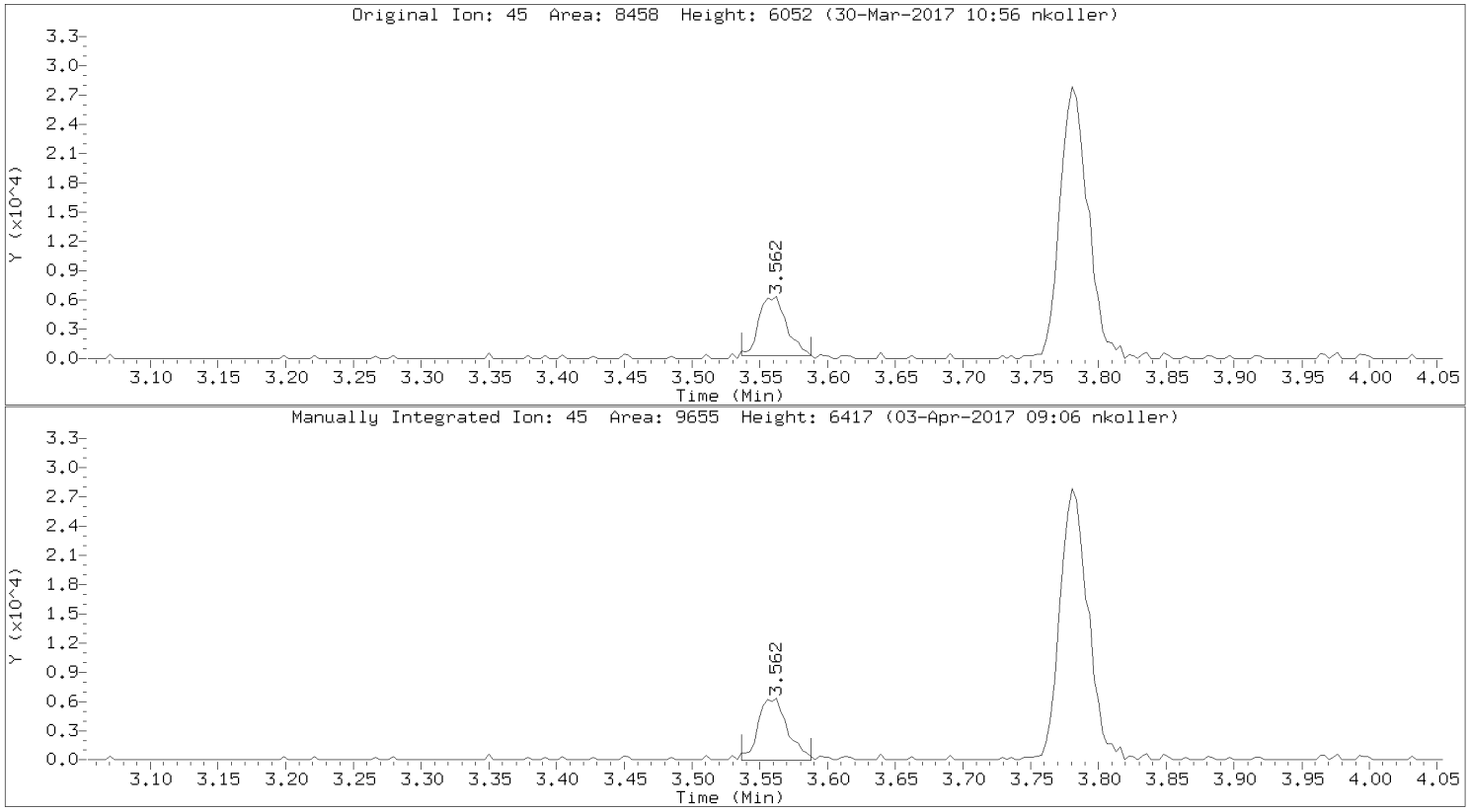






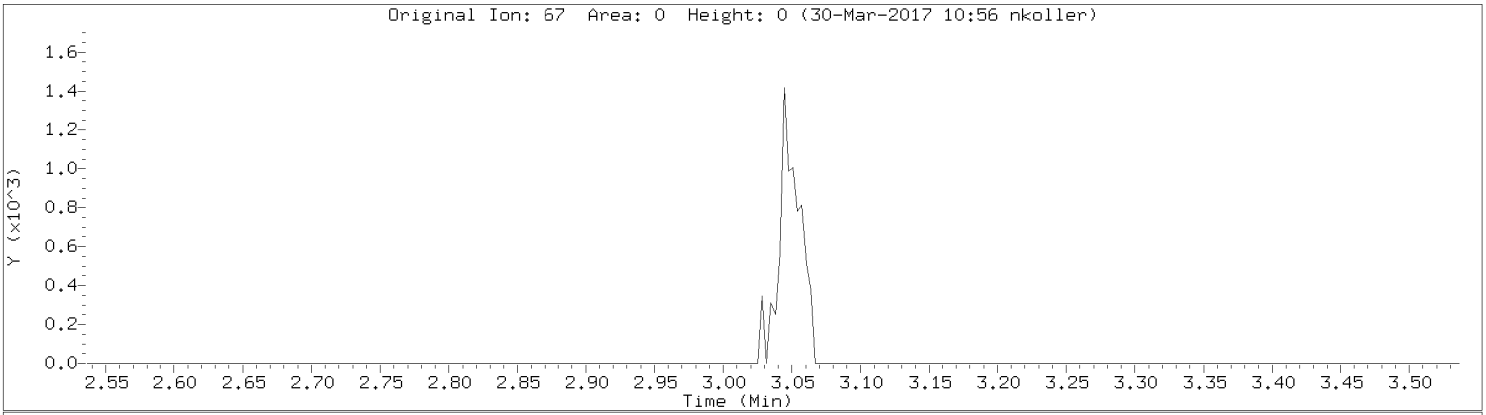
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: cal1

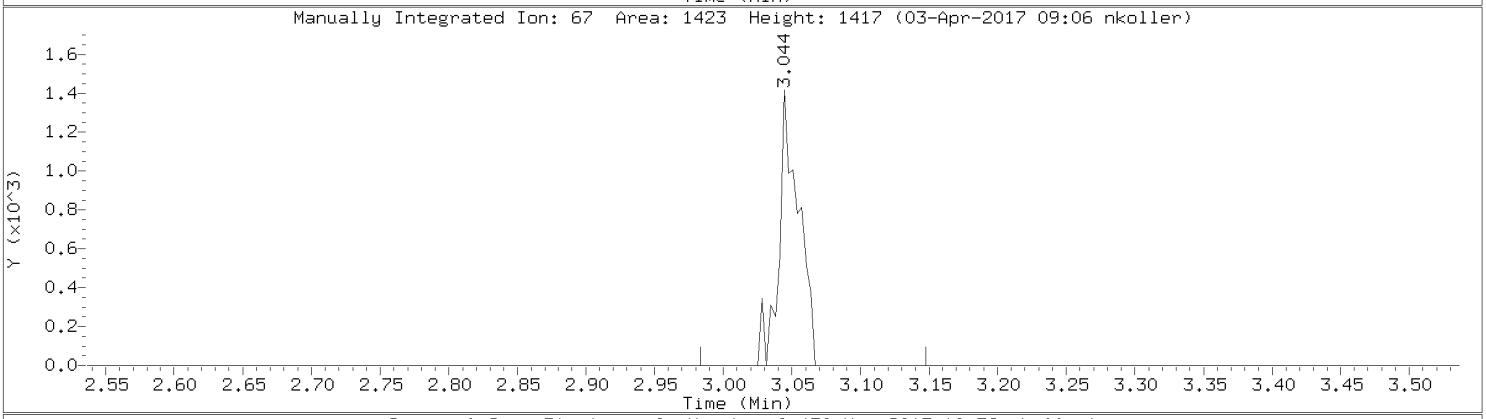
Compound: Ethanol
CAS Number: 64-17-5

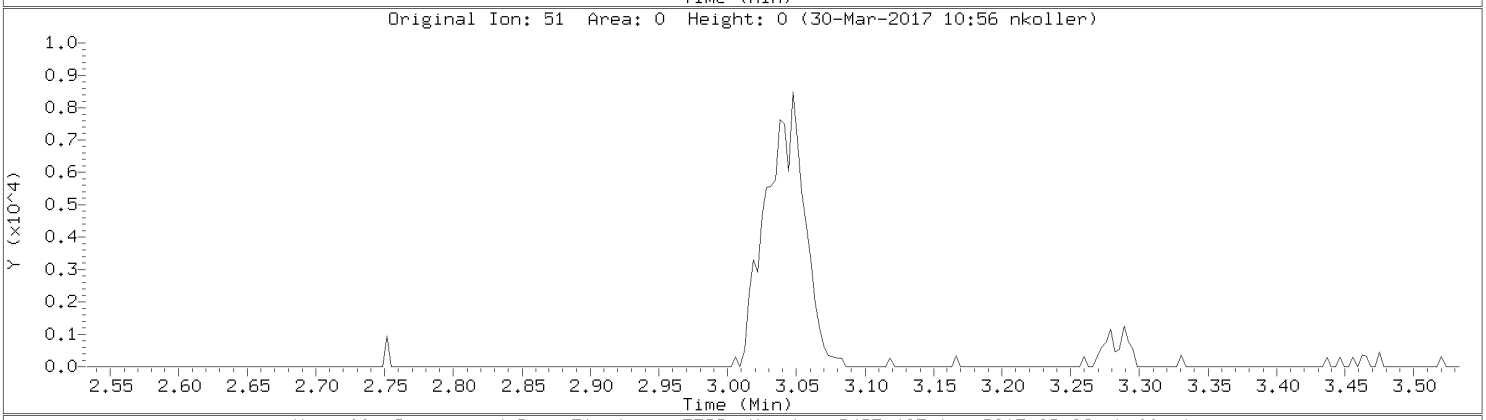


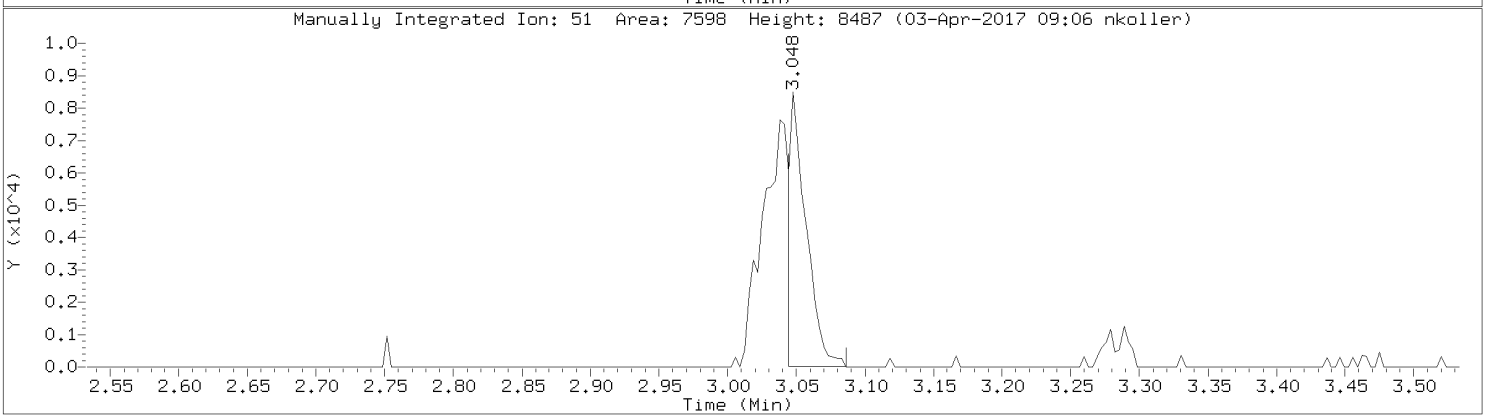
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

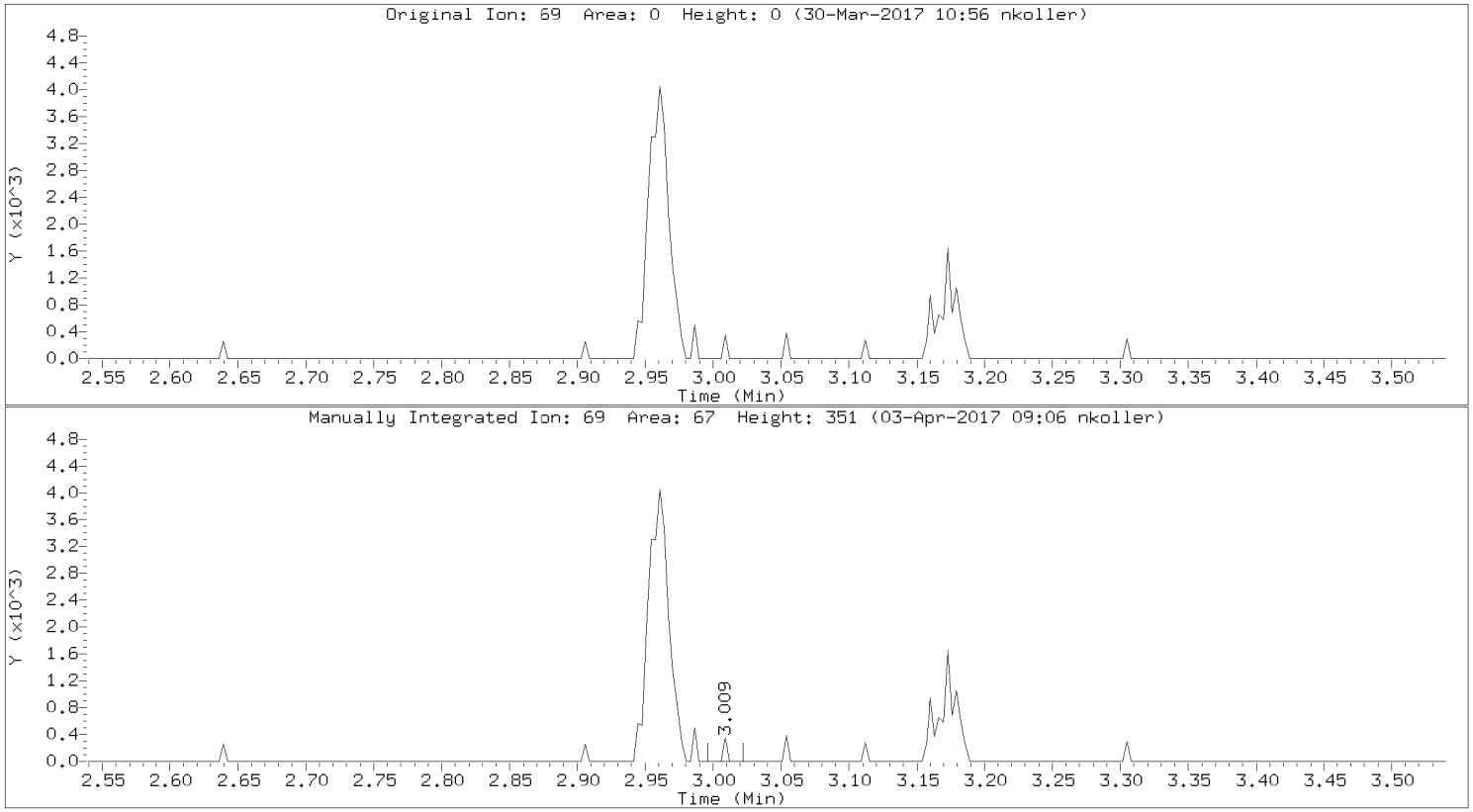






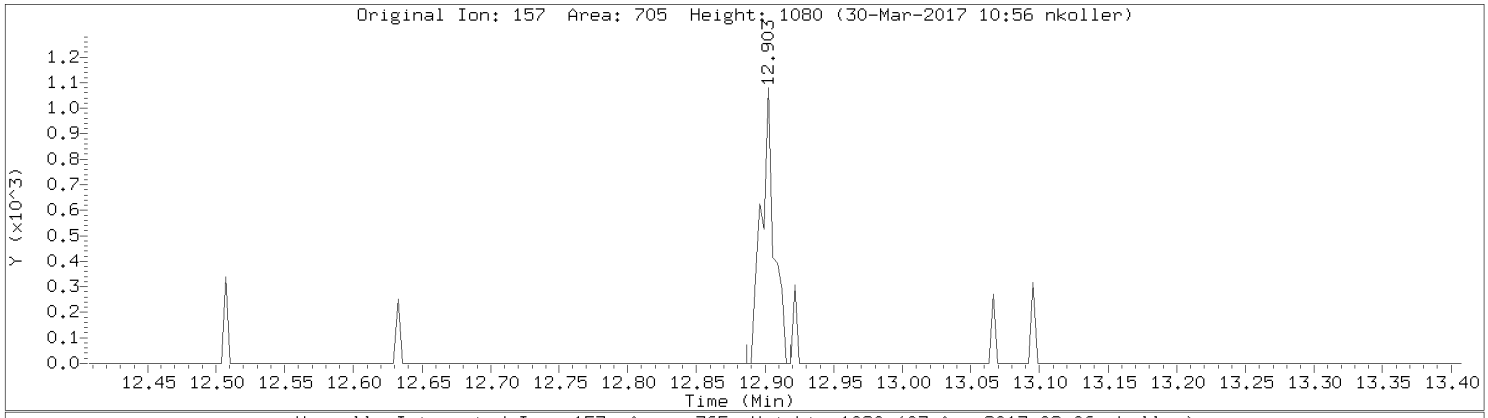


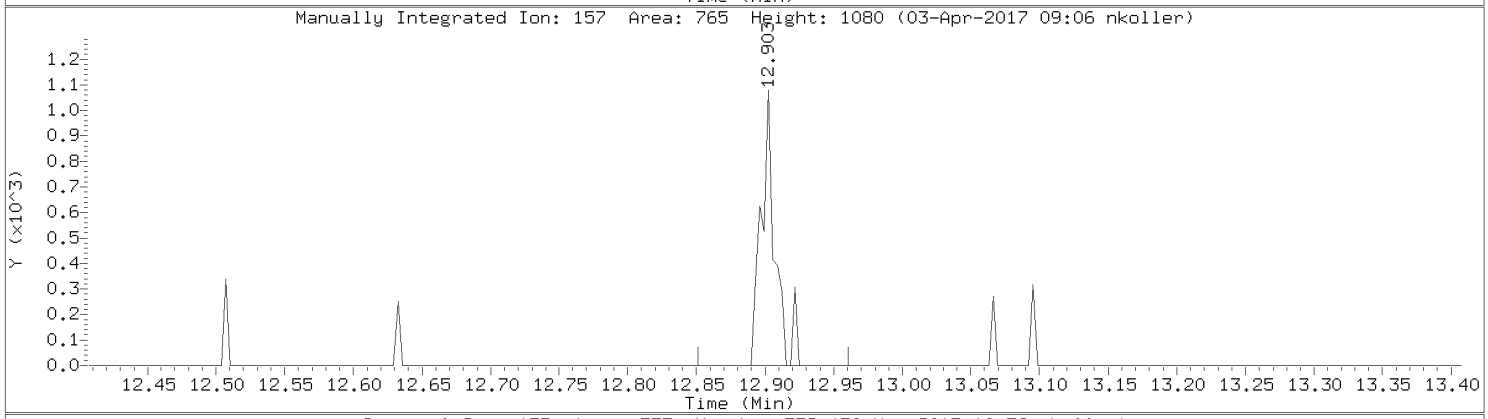
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: cal1

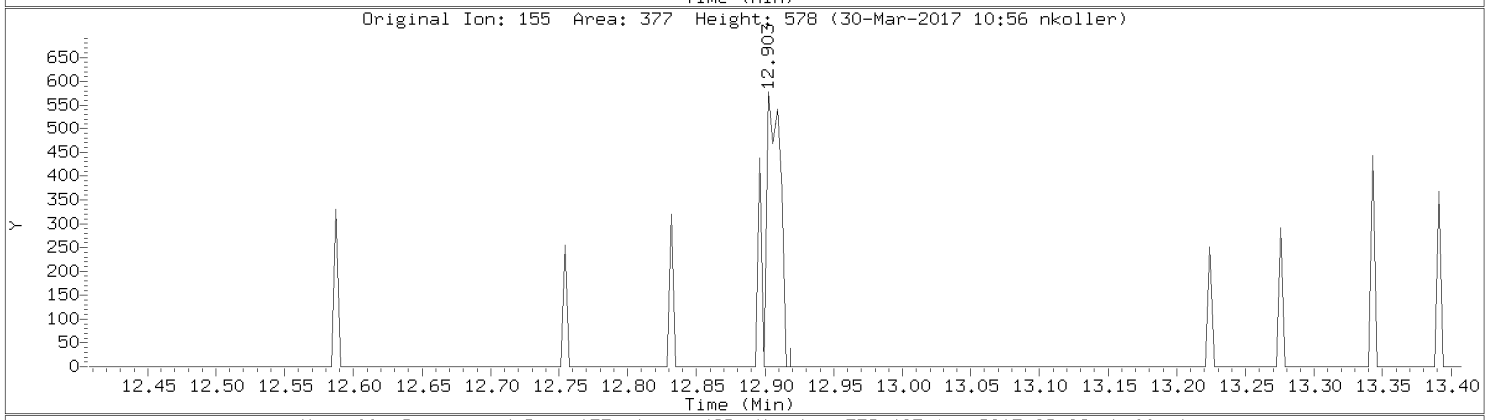


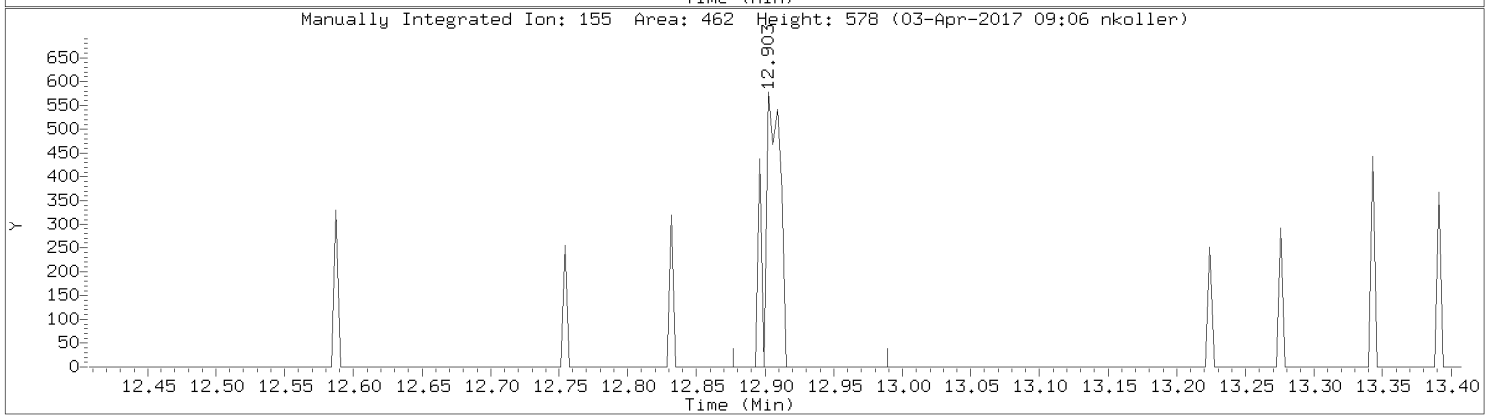
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

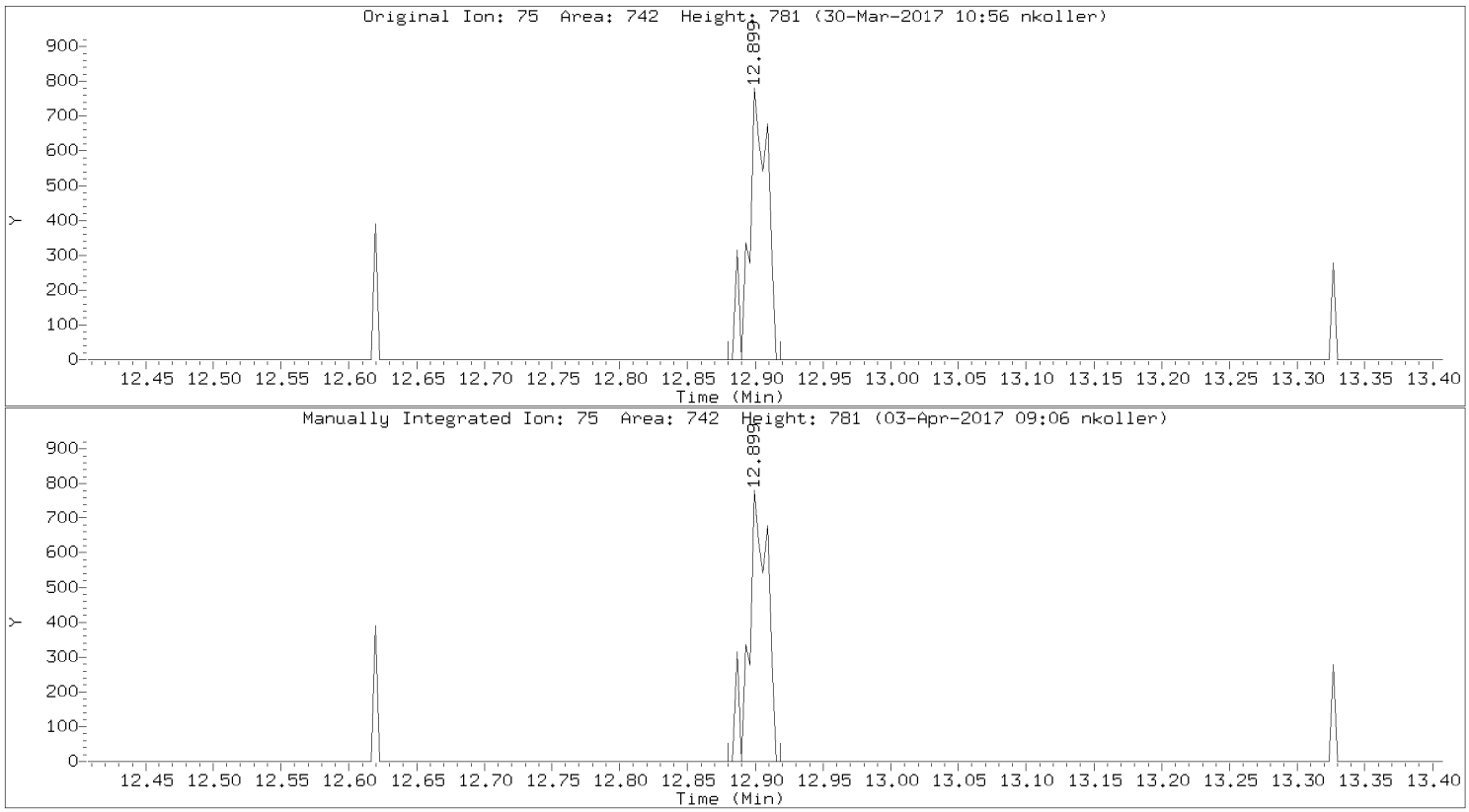








Data File: \\192.168.10.12\chem\10airB.i\033017.b/08841.D
Injection Date: 30-MAR-2017 05:04
Instrument: 10airB.i
Lab Sample ID: cal1



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08842.D
Report Date: 03-Apr-2017 09:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08842.D
Lab Smp Id: cal2
Inj Date : 30-MAR-2017 05:32
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 03-Apr-2017 09:04 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 42 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.957	2.951	(0.528)	19042	0.20000	0.385
2	1,1-Difluoroethane	65	3.024	3.025	(0.540)	6849	0.20000	0.189(Q)
3	Chlorodifluoromethane	67	3.040	3.034	(0.543)	2658	0.20000	0.173(QM)
4	Propylene	41	3.040	3.038	(0.543)	8917	0.20000	0.187
5	Dichlorodifluoromethane	85	3.073	3.070	(0.549)	31725	0.20000	0.193
6	Chloromethane	50	3.163	3.166	(0.565)	12398	0.20000	0.172
7	Dichlorotetrafluoroethane	85	3.166	3.176	(0.566)	27678	0.20000	0.185
8	Vinyl chloride	62	3.240	3.247	(0.579)	10639	0.20000	0.177
9	1,3-Butadiene	54	3.278	3.288	(0.586)	7310	0.20000	0.158
10	Bromomethane	94	3.413	3.423	(0.610)	8136	0.20000	0.176
11	Chloroethane	64	3.458	3.475	(0.618)	4156	0.20000	0.246
12	Ethanol	45	3.548	3.552	(0.634)	18179	1.00000	0.832
13	Vinyl Bromide	106	3.577	3.591	(0.639)	7854	0.20000	0.178
14	Isopentane	43	3.594	3.607	(0.642)	11606	0.20000	0.188
15	Freon 123	83	3.600	3.642	(0.643)	18446	0.20000	0.252
16	Trichlorofluoromethane	101	3.664	3.681	(0.655)	21496	0.20000	0.183
17	Acrolein	56	3.677	3.690	(0.657)	7484	0.50000	0.412
18	Acetone	43	3.732	3.729	(0.667)	78830	1.00000	0.953
19	Isopropyl Alcohol	45	3.770	3.777	(0.674)	82007	1.00000	0.899
20	1,1-Dichloroethene	61	3.899	3.919	(0.697)	13579	0.20000	0.165
21	Acrylonitrile	53	3.912	3.935	(0.699)	17827	0.50000	0.445(H)
22	Freon 113	101	3.941	3.957	(0.704)	17202	0.20000	0.190
23	Methyl Acetate	43	3.960	3.967	(0.708)	25698	0.20000	0.192

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08842.D
Report Date: 03-Apr-2017 09:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.973	3.964	(0.710)	52562	0.50000	0.471
	25 Methylene chloride	49	3.986	4.012	(0.712)	61059	1.00000	0.962
	26 Allyl Chloride	76	3.995	4.025	(0.714)	6858	0.50000	0.489(Q)
	27 Carbon Disulfide	76	4.111	4.134	(0.735)	13839	0.20000	0.196
	28 trans-1,2-dichloroethene	96	4.249	4.282	(0.759)	7219	0.20000	0.170
	29 Methyl Tert Butyl Ether	73	4.317	4.308	(0.771)	55318	0.50000	0.465
	30 Vinyl Acetate	43	4.375	4.394	(0.782)	21826	0.20000	0.166
	31 1,1-Dichloroethane	63	4.381	4.417	(0.783)	16222	0.20000	0.180
$	32 Hexane-d14(S)	66	4.481	4.491	(0.801)	850524	10.0000	9.75
	33 Methyl Ethyl Ketone	72	4.558	4.562	(0.814)	4472	0.20000	0.195(QM)
	34 n-Hexane	57	4.577	4.591	(0.818)	17580	0.20000	0.189(QM)
	35 Di-isopropyl Ether	45	4.606	4.610	(0.823)	32098	0.20000	0.173
	36 Ethyl Acetate	43	4.722	4.722	(0.844)	20556	0.20000	0.171
	37 cis-1,2-Dichloroethene	96	4.700	4.732	(0.840)	8505	0.20000	0.173
	38 Ethyl Tert-Butyl Ether	59	4.831	4.835	(0.863)	89141	0.50000	0.473
	39 Chloroform	83	4.815	4.845	(0.860)	18501	0.20000	0.184
	40 Tetrahydrofuran	42	5.015	4.999	(0.896)	13354	0.20000	0.189
	41 1,1,1-Trichloroethane	97	5.217	5.237	(0.932)	19530	0.20000	0.164
	42 1,2-Dichloroethane	62	5.217	5.243	(0.932)	17398	0.20000	0.180
	43 Benzene	78	5.452	5.472	(0.974)	32662	0.20000	0.190
	44 Carbon tetrachloride	117	5.471	5.491	(0.978)	16257	0.20000	0.150
	45 Cyclohexane	56	5.484	5.494	(0.980)	16843	0.20000	0.172
	46 Tert Amyl Methyl Ether	73	5.610	5.610	(1.002)	48921	0.20000	0.0931(Q)
*	47 1,4-Difluorobenzene	114	5.597	5.616	(1.000)	2284589	10.0000	
	48 2,2,4-Trimethylpentane	57	5.757	5.774	(1.029)	142604	0.50000	0.478
	49 Heptane	43	5.880	5.896	(1.051)	21106	0.20000	0.185
	50 1,2-Dichloropropane	63	5.954	5.970	(1.064)	11813	0.20000	0.174
	51 Trichloroethene	130	5.973	5.992	(1.067)	15686	0.20000	0.179
	52 Methyl methacrylate	69	6.044	6.050	(1.080)	10242	0.20000	0.179
	53 1,4-Dioxane	88	6.092	6.070	(1.088)	6573	0.20000	0.155
	54 Bromodichloromethane	83	6.076	6.089	(1.086)	16391	0.20000	0.0502
	55 Methylcyclohexane	98	6.423	6.436	(1.148)	8580	0.20000	0.176
	56 Methyl Isobutyl Ketone	43	6.539	6.533	(1.168)	64697	0.50000	0.434
	57 cis-1,3-Dichloropropene	75	6.574	6.587	(1.175)	13323	0.20000	0.178
	58 trans-1,3-Dichloropropene	75	6.976	6.986	(1.246)	10341	0.20000	0.263
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	1804581	10.0000	9.36
	60 1,1,2-Trichloroethane	97	7.134	7.147	(1.275)	12264	0.20000	0.177
	61 Toluene	91	7.143	7.153	(1.276)	36380	0.20000	0.174
	62 Methyl Butyl Ketone	43	7.384	7.375	(0.855)	51054	0.50000	0.447
	63 n-Octane	43	7.574	7.584	(0.877)	23933	0.20000	0.183
	64 Dibromochloromethane	129	7.671	7.680	(0.888)	14918	0.20000	0.230
	65 1,2-Dibromoethane	107	7.899	7.909	(0.914)	18118	0.20000	0.184
	66 Tetrachloroethene	166	7.976	7.989	(0.923)	20357	0.20000	0.200
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	1252599	10.0000	
	68 Chlorobenzene	112	8.677	8.687	(1.004)	28613	0.20000	0.190
	69 Ethyl Benzene	91	8.931	8.938	(1.034)	44156	0.20000	0.187
	70 m&p-Xylene	91	9.076	9.082	(1.051)	67058	0.40000	0.378
	71 n-Nonane	43	9.468	9.471	(1.096)	21034	0.20000	0.183
	72 Bromoform	173	9.474	9.481	(1.097)	8852	0.20000	0.262
	73 Styrene	104	9.503	9.507	(1.100)	24180	0.20000	0.183
	74 o-Xylene	91	9.574	9.581	(1.108)	34959	0.20000	0.192
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.831	(1.138)	16453	0.20000	0.169
	76 Isopropylbenzene	105	10.156	10.163	(1.176)	47925	0.20000	0.192
	77 N-Propylbenzene	91	10.735	10.738	(1.243)	42901	0.20000	0.166

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08842.D
Report Date: 03-Apr-2017 09:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.905	10.912	(1.262)	35907	0.20000	0.165
79	1,3,5-Trimethylbenzene	105	10.992	11.002	(1.272)	31738	0.20000	0.168
80	n-Decane	57	11.375	11.378	(2.032)	18589	0.20000	0.196
81	Tert-Butyl Benzene	119	11.494	11.497	(1.331)	36557	0.20000	0.183
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	29008	0.20000	0.169
83	1,3-Dichlorobenzene	146	11.793	11.796	(1.365)	14378	0.20000	0.244
84	Sec- Butylbenzene	105	11.802	11.806	(1.366)	45635	0.20000	0.183
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	464667	10.0000	8.14
86	Benzyl Chloride	91	11.857	11.867	(1.373)	6150	0.20000	0.330
87	1,4-Dichlorobenzene	146	11.886	11.889	(1.376)	14140	0.20000	0.107
88	p-Isopropyltoluene	119	11.982	11.989	(1.387)	34731	0.20000	0.169
89	1,2,3-Trimethylbenzene	105	12.027	12.034	(1.392)	28044	0.20000	0.169
90	1,2-Dichlorobenzene	146	12.281	12.282	(1.422)	13826	0.20000	0.263
91	N-Butylbenzene	91	12.458	12.458	(1.442)	17717	0.20000	0.259
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	1716	0.20000	0.372
93	1,2,4-Trichlorobenzene	180	14.046	14.040	(1.626)	533	0.20000	0.438(QM)
94	Naphthalene	128	14.175	14.172	(1.641)	3072	0.20000	0.311(M)
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	6121	0.20000	0.133

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08842.D
Report Date: 03-Apr-2017 09:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08842.D
Lab Smp Id: cal2
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info:

Calibration Date: 30-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

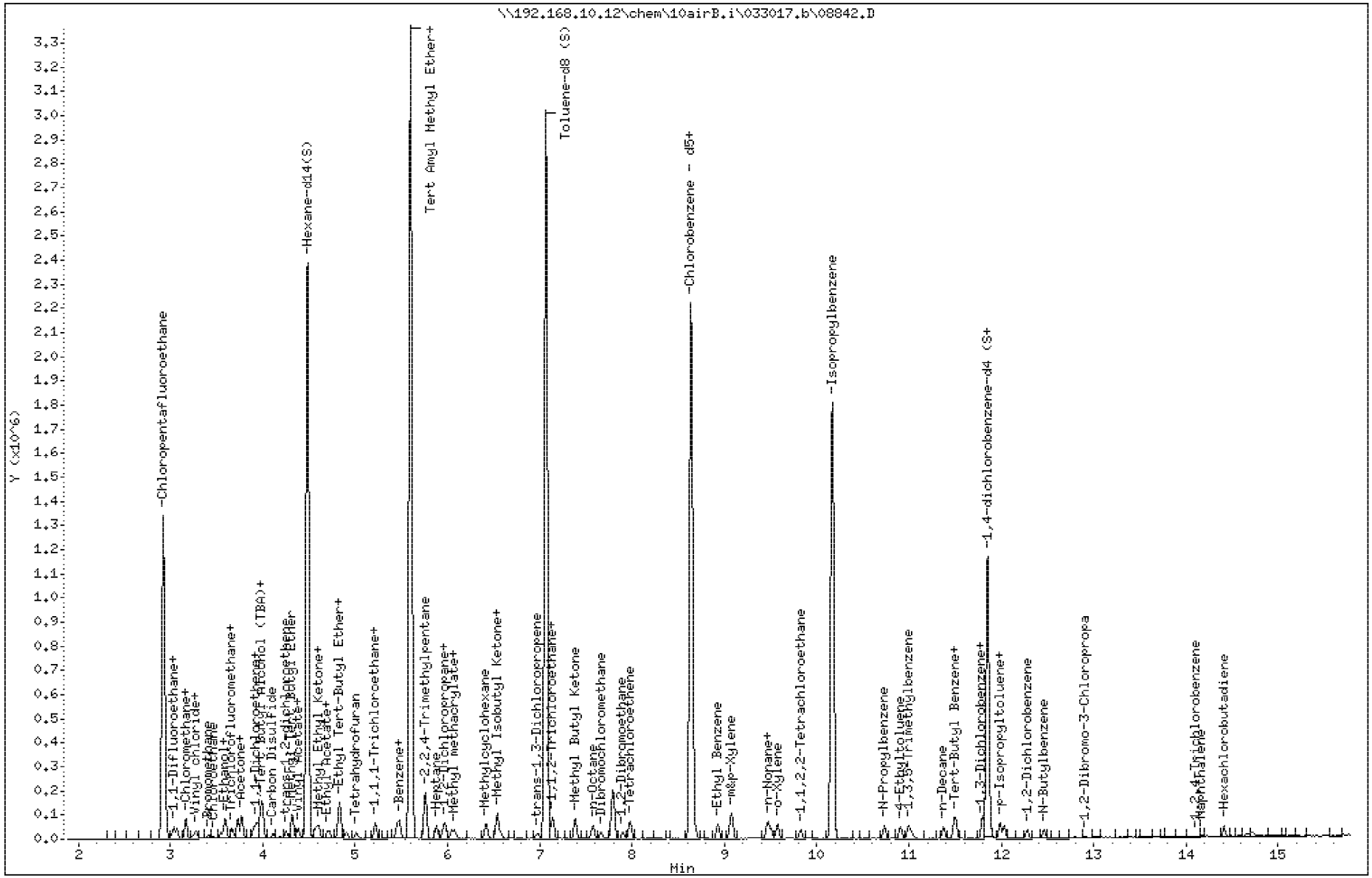
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	2284589	25.36
67 Chlorobenzene - d	1204744	722846	1686642	1252599	3.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.60	-0.35
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

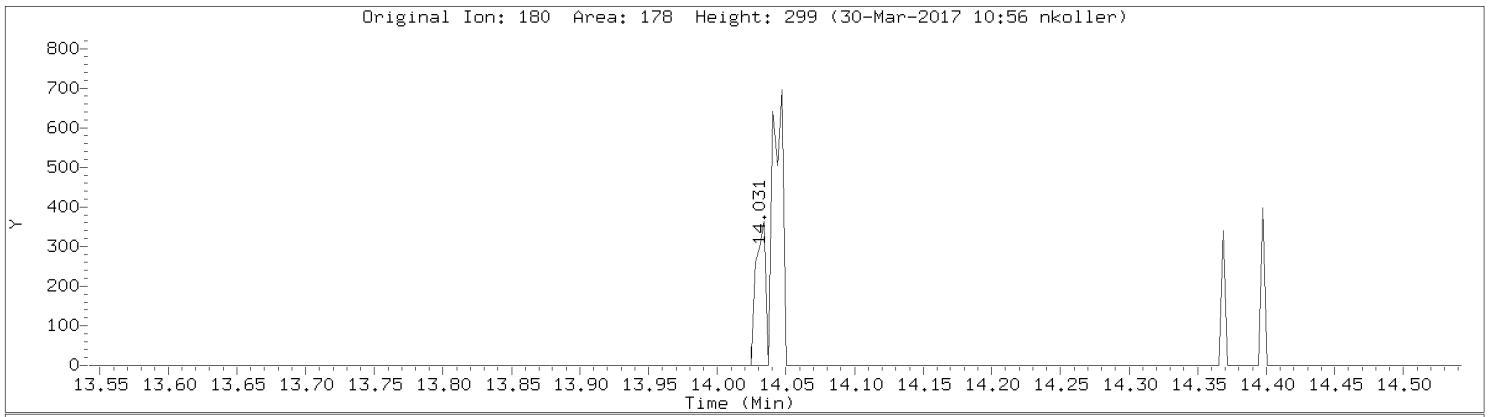
Data File: \\192.168.10.12\chem\10airB.i\033017.b\08842.D
Date : 30-MAR-2017 05:32
Client ID:
Sample Info:

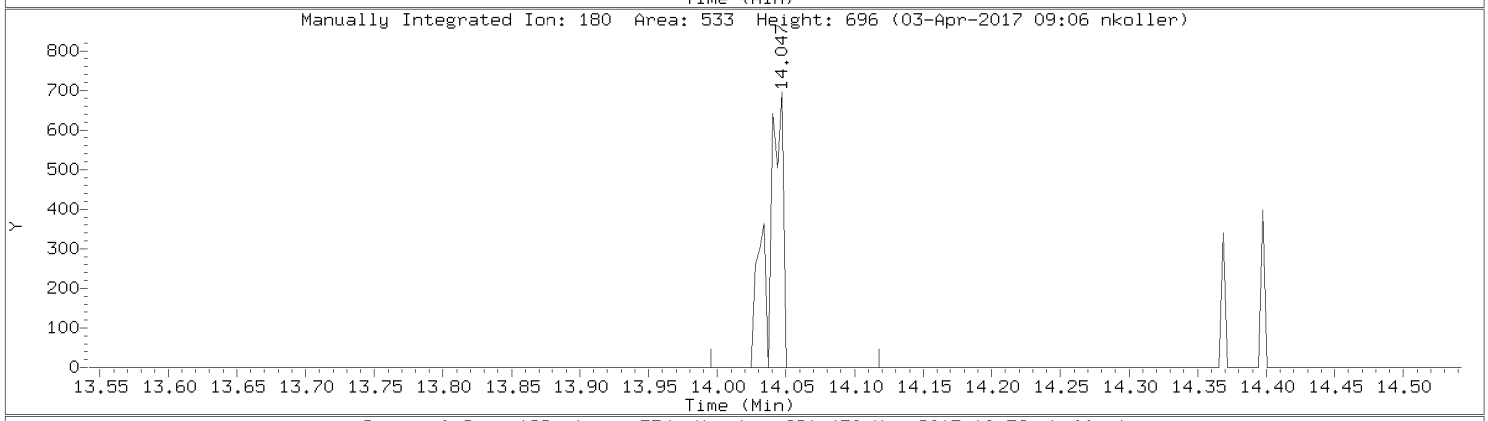
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

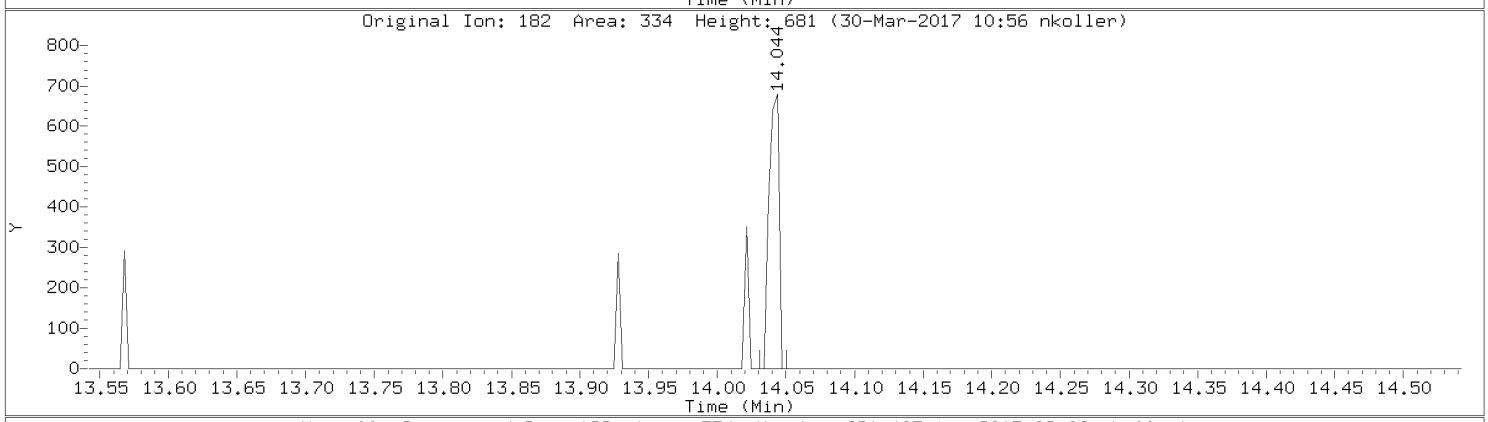


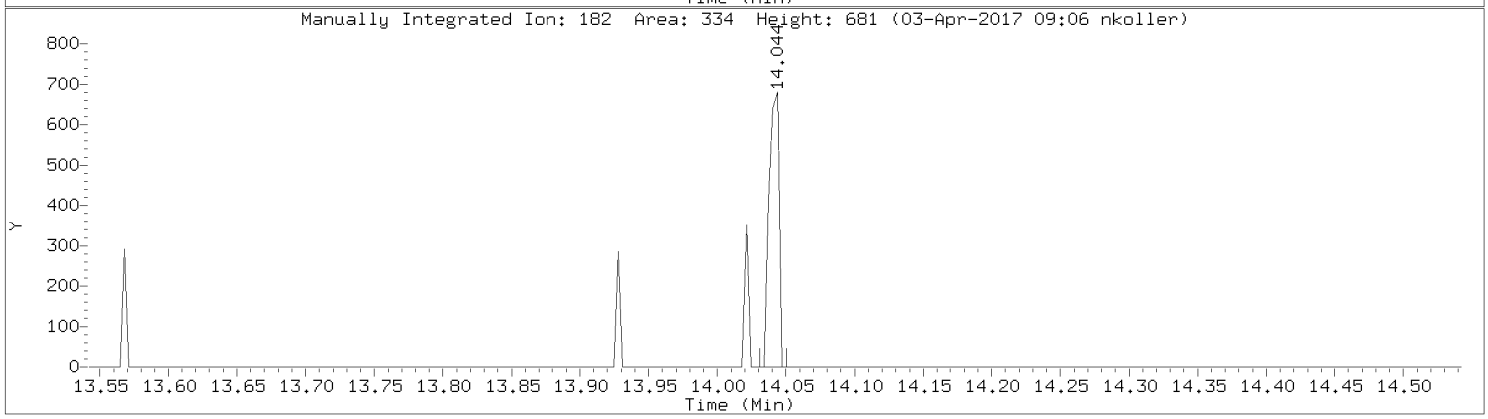
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08842.D
Injection Date: 30-MAR-2017 05:32
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

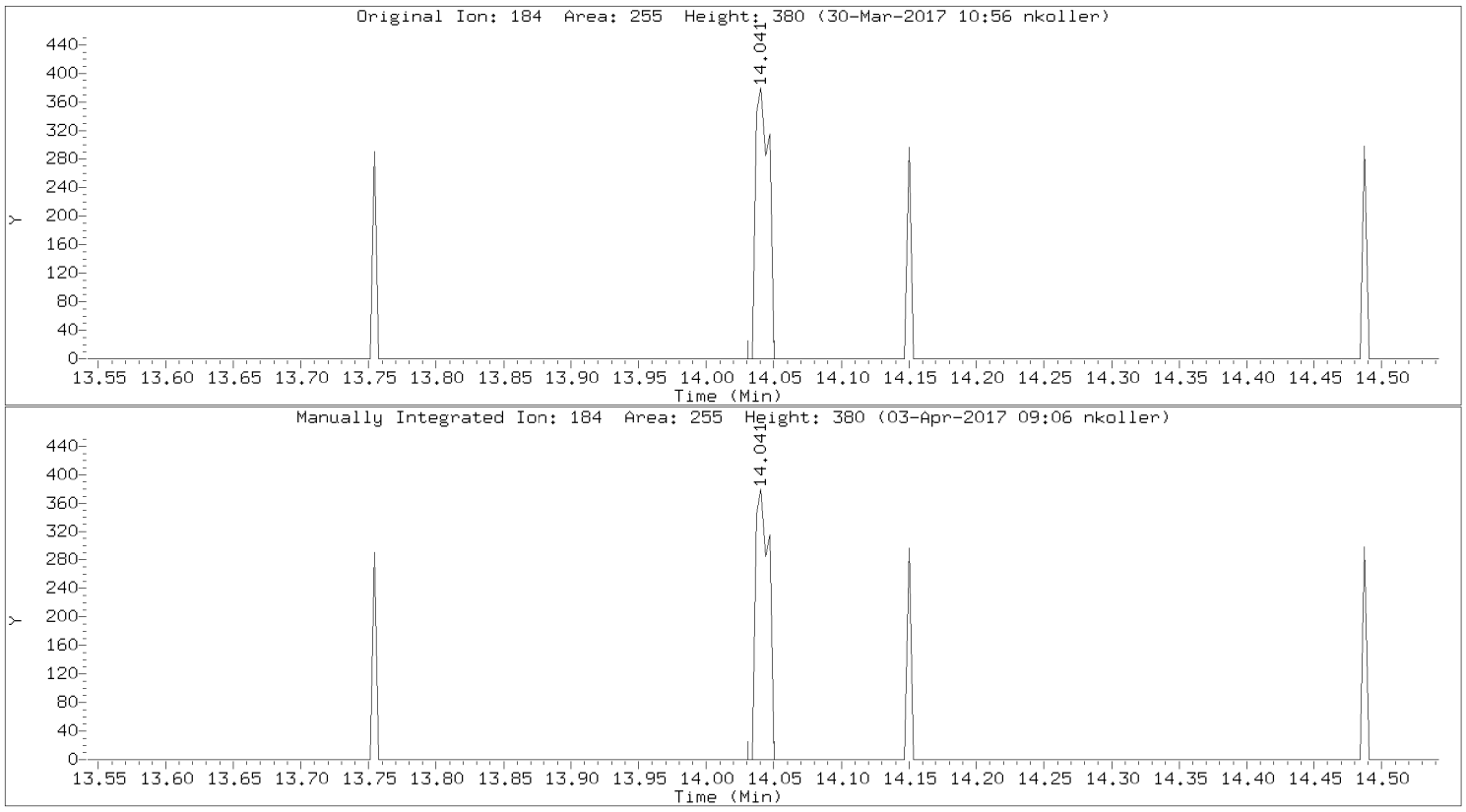






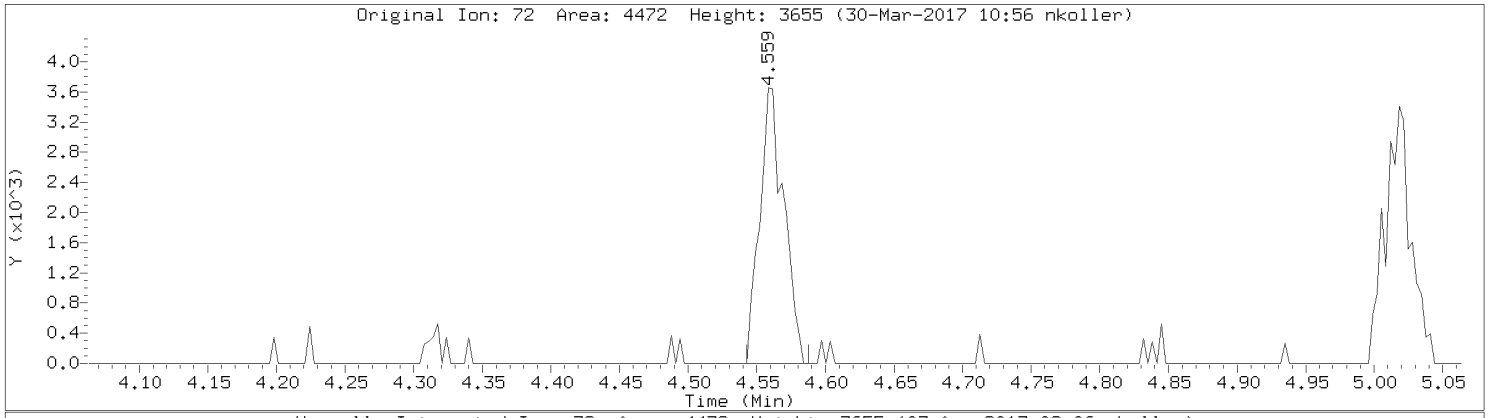


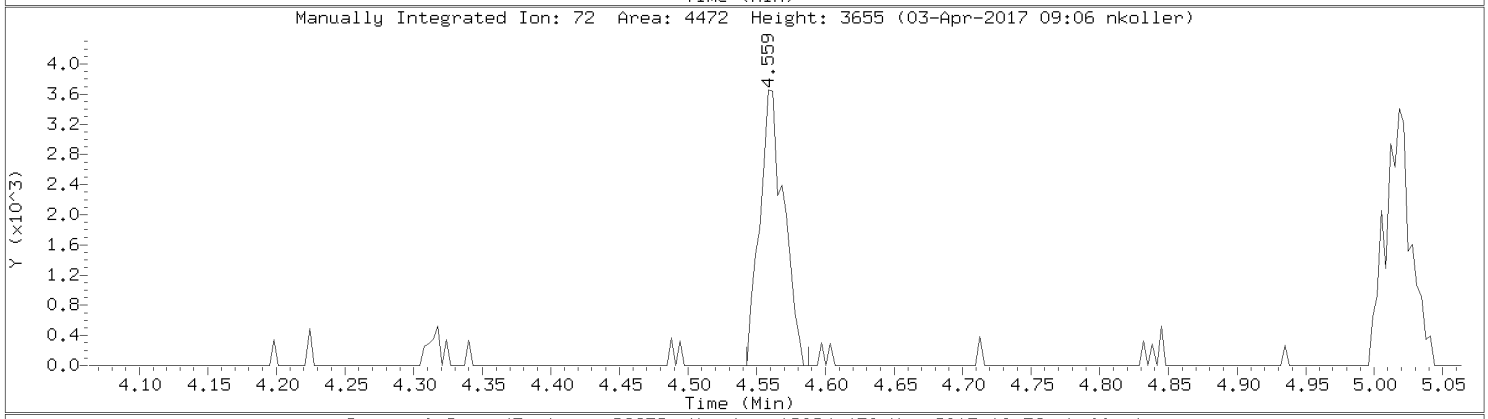
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08842.D
Injection Date: 30-MAR-2017 05:32
Instrument: 10airB.i
Lab Sample ID: cal2

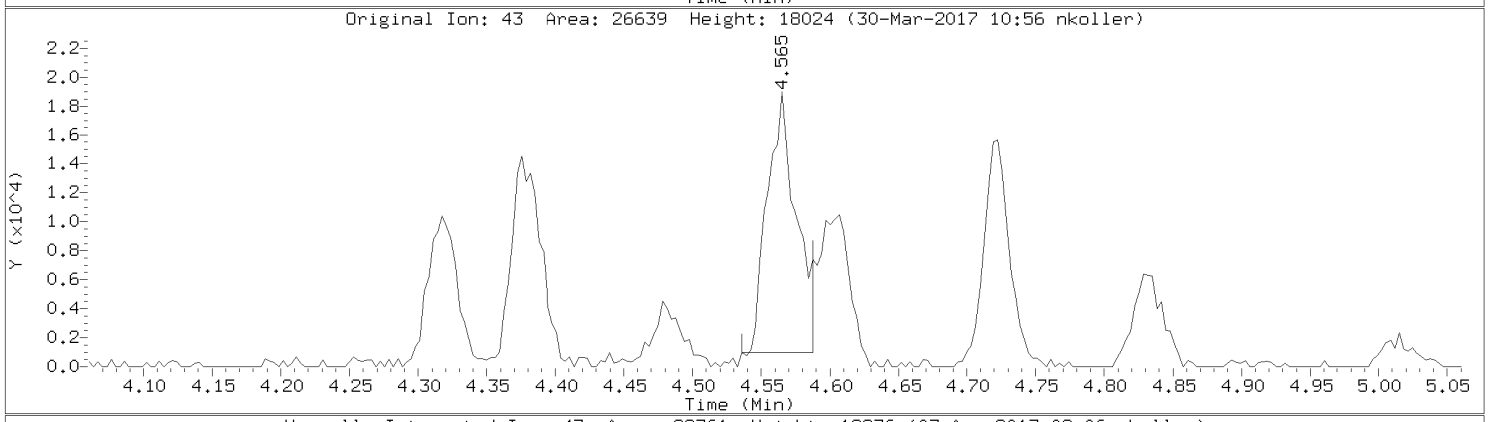


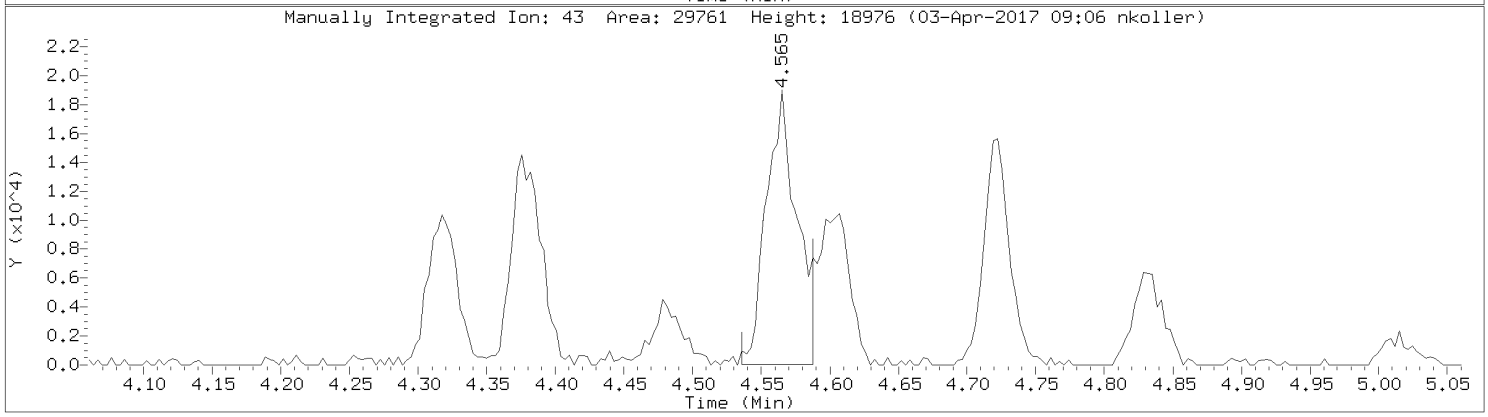
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08842.D
Injection Date: 30-MAR-2017 05:32
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



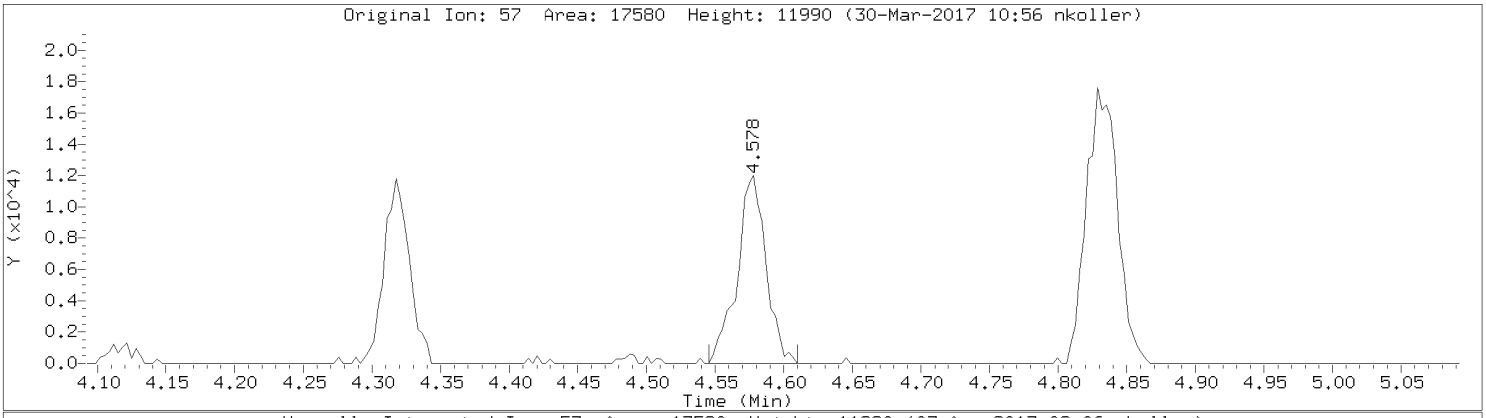


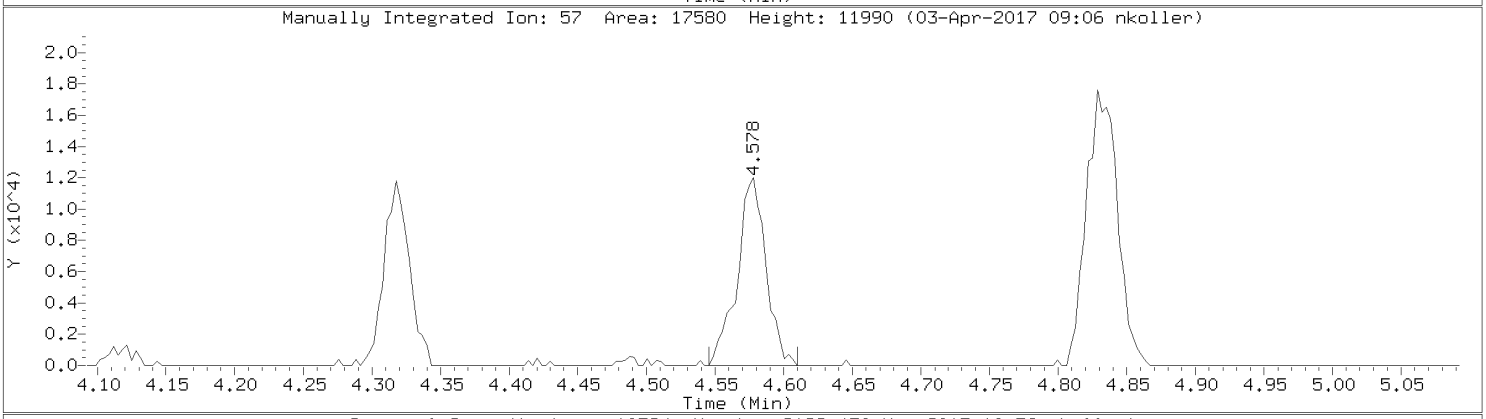


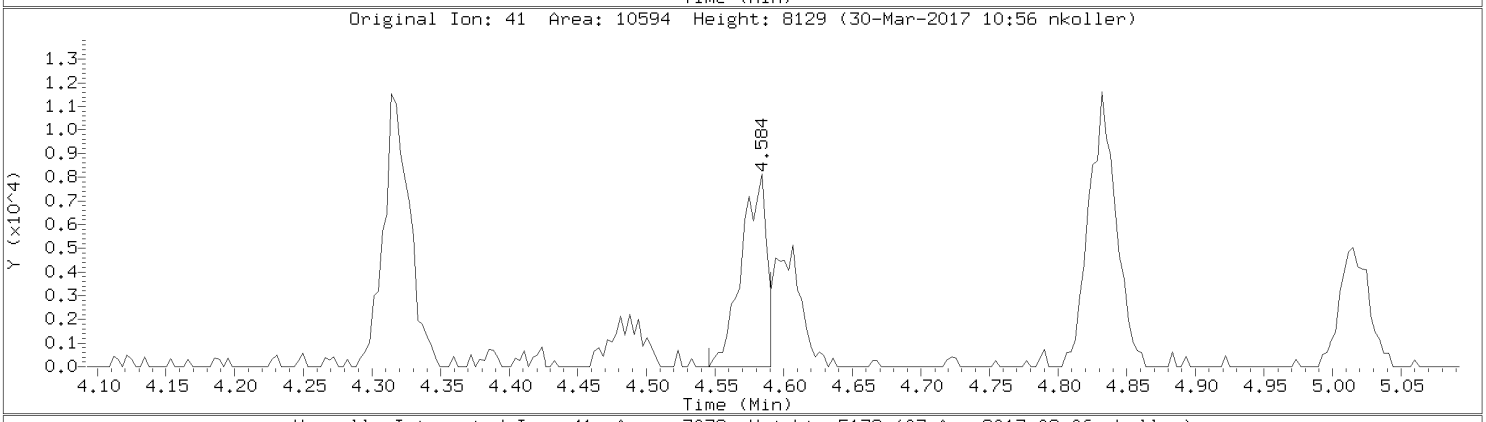


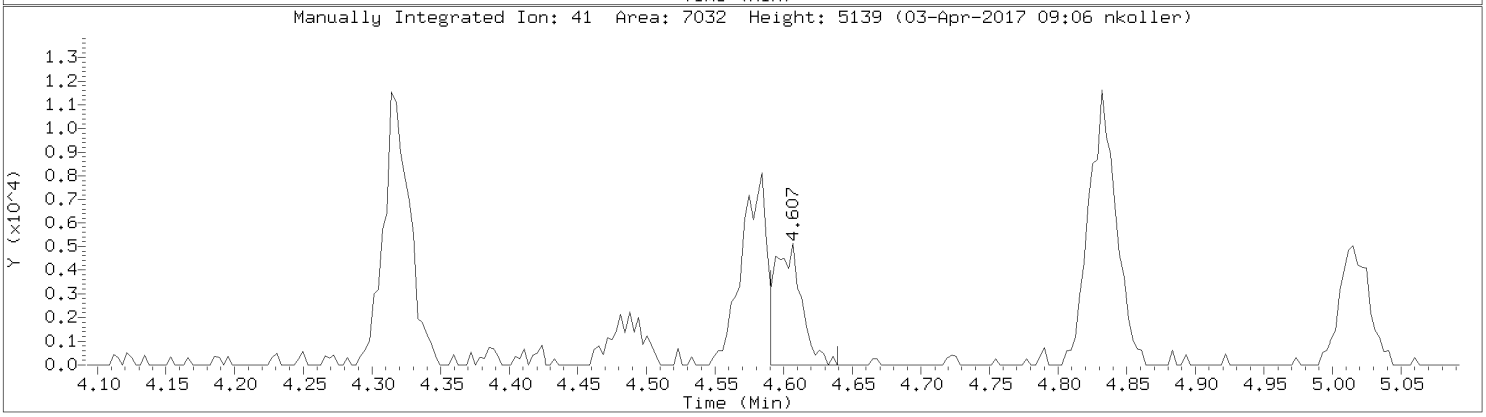
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08842.D
Injection Date: 30-MAR-2017 05:32
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: n-Hexane
CAS Number: 110-54-3

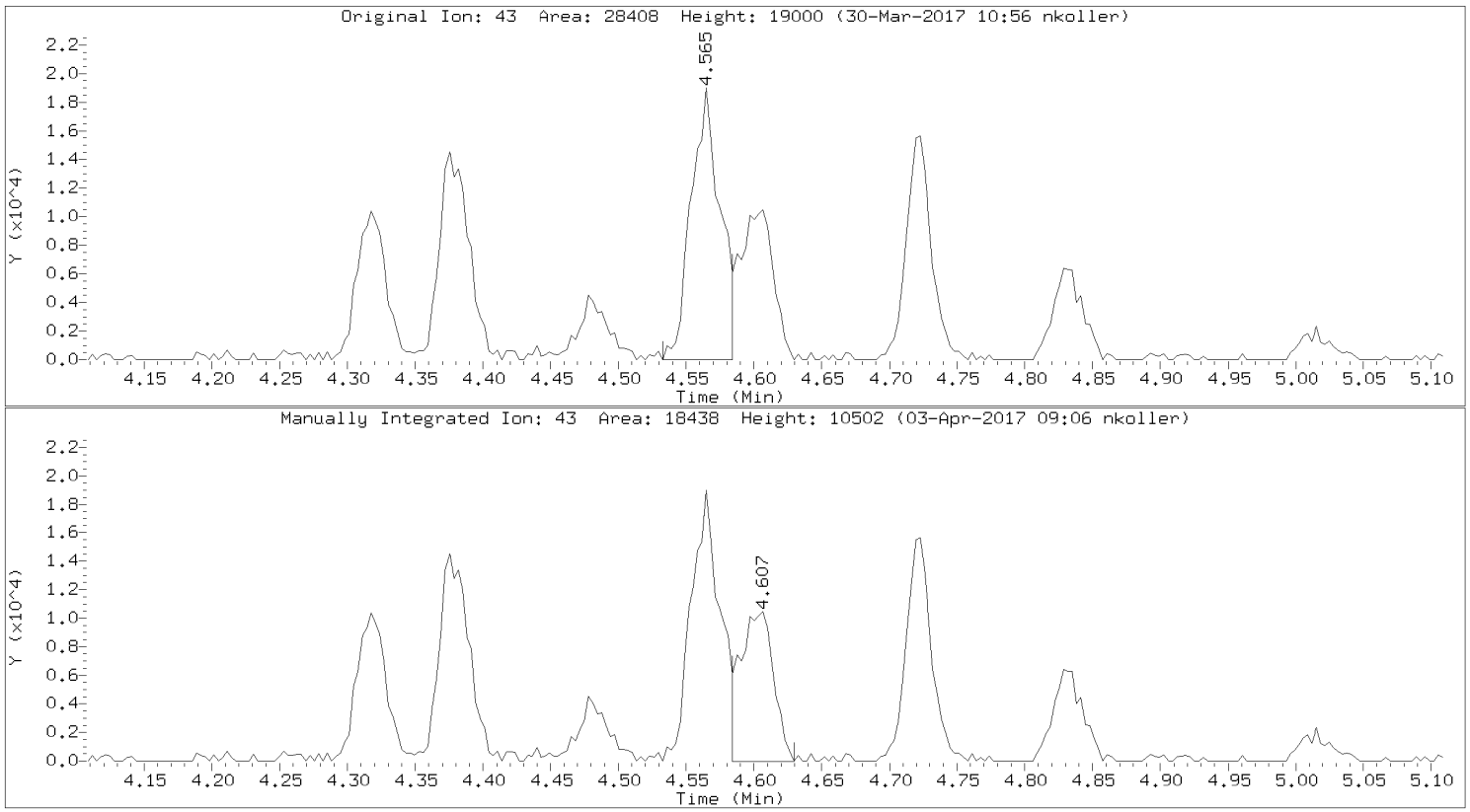






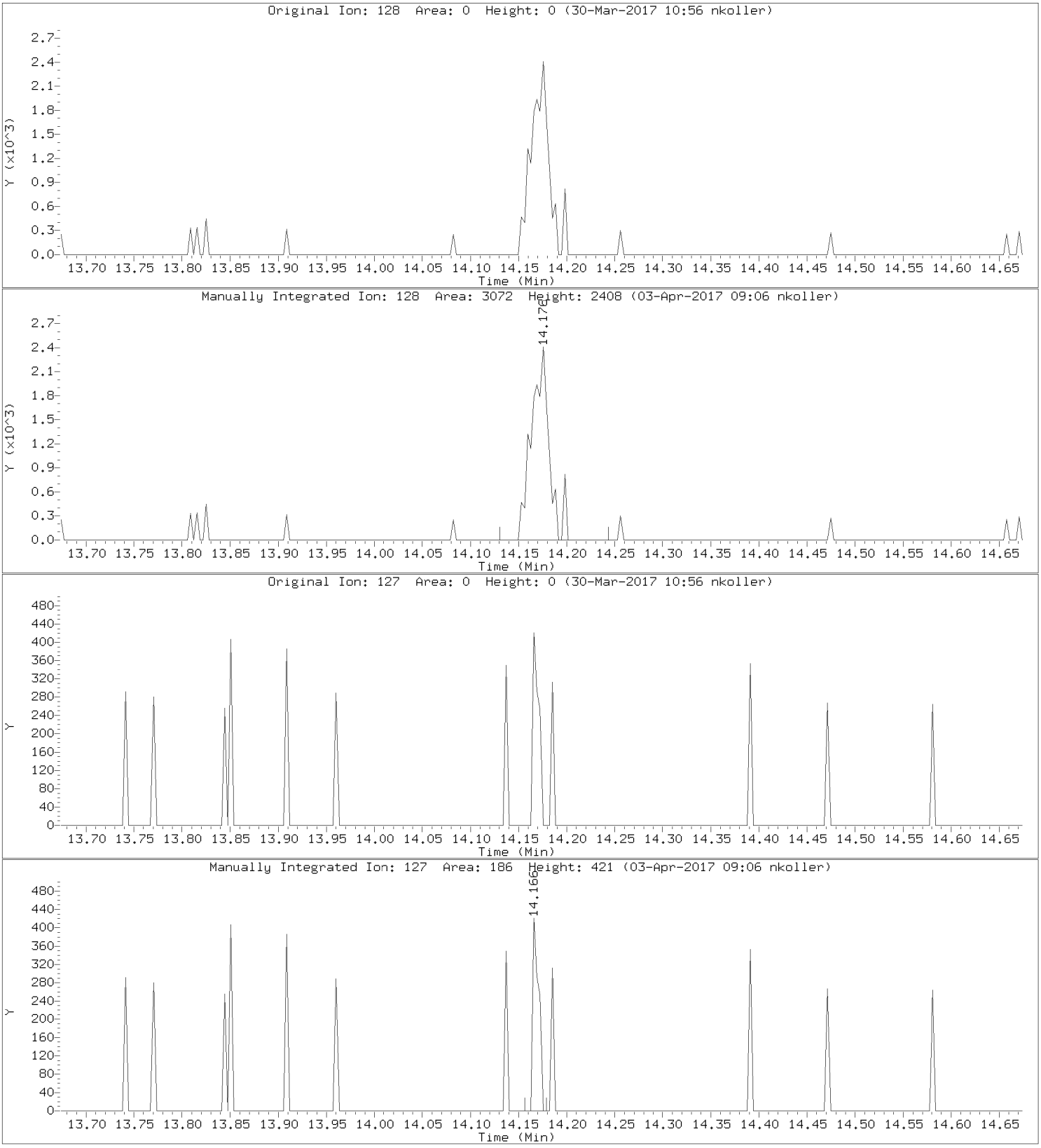


Data File: \\192.168.10.12\chem\10airB.i\033017.b/08842.D
Injection Date: 30-MAR-2017 05:32
Instrument: 10airB.i
Lab Sample ID: cal2



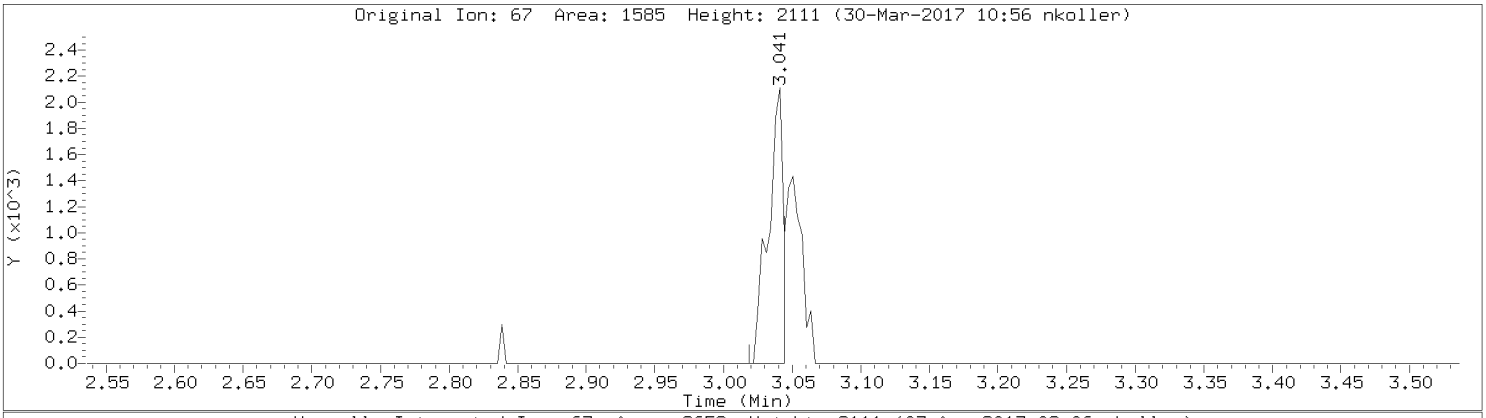
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08842.D
Injection Date: 30-MAR-2017 05:32
Instrument: 10airB.i
Lab Sample ID: cal2

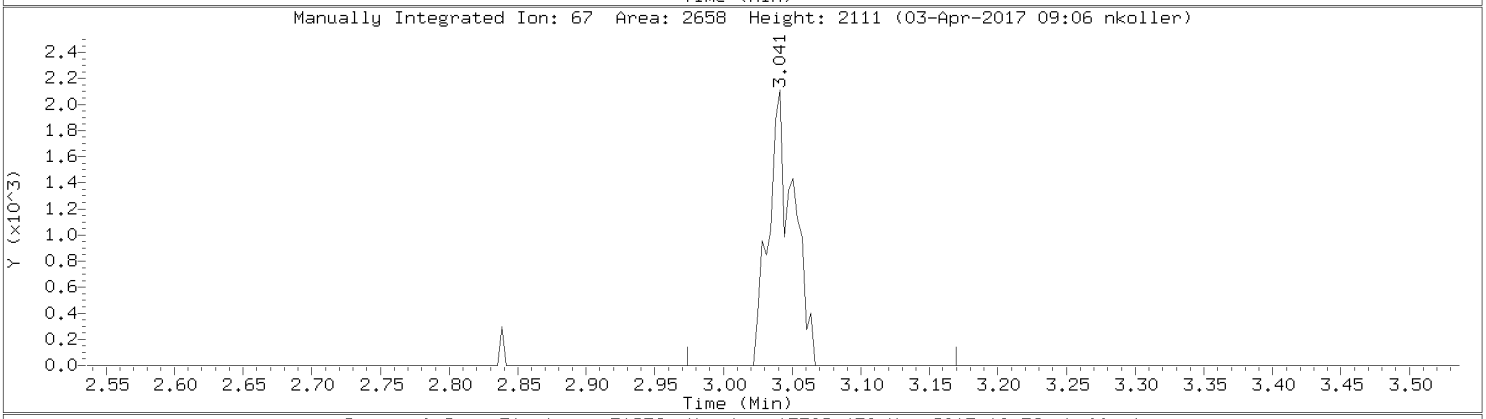
Compound: Naphthalene
CAS Number: 91-20-3

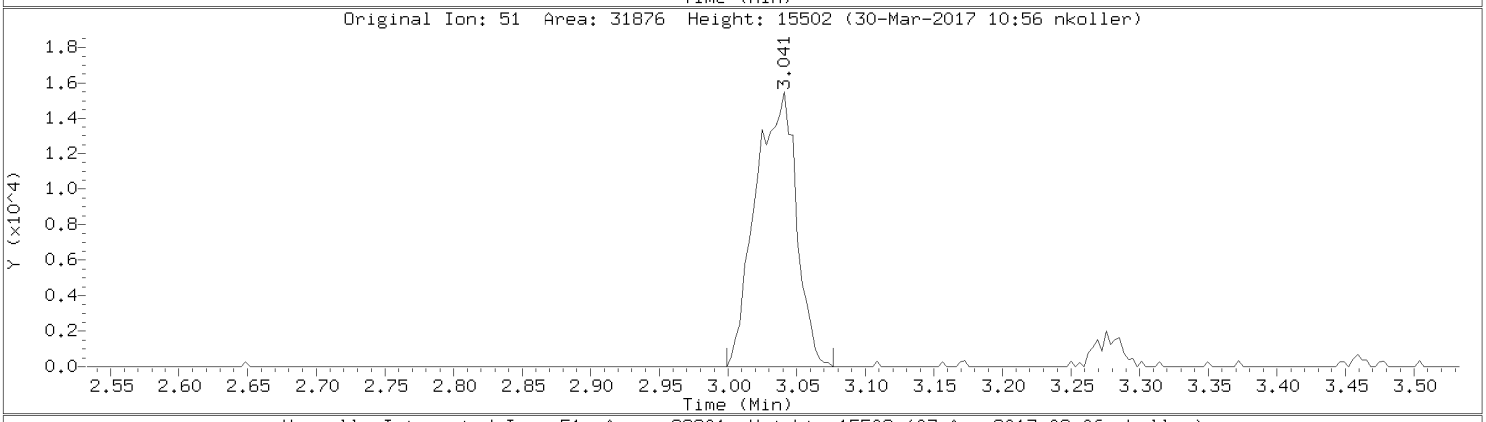


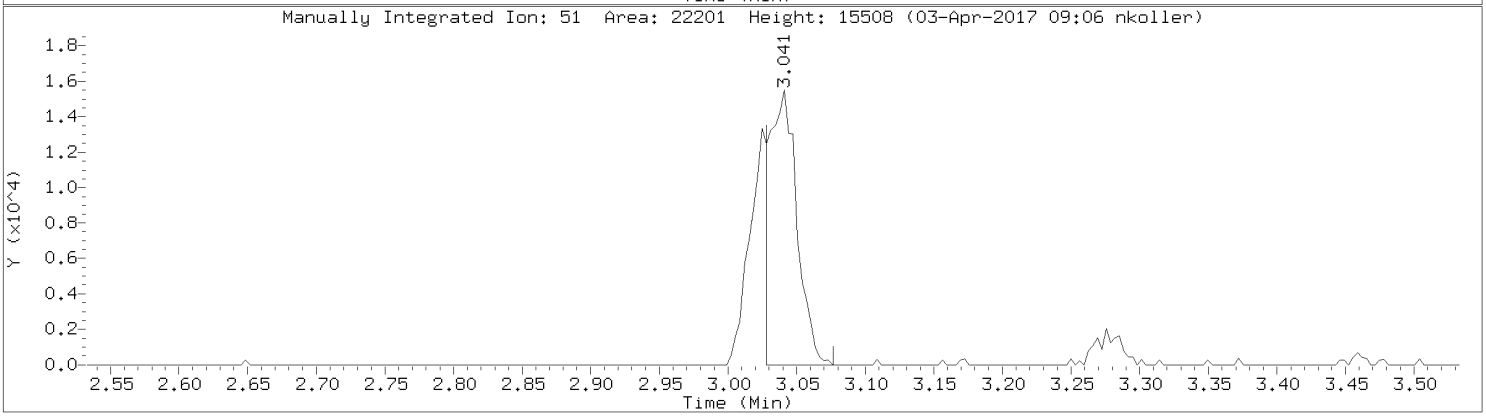
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08842.D
Injection Date: 30-MAR-2017 05:32
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

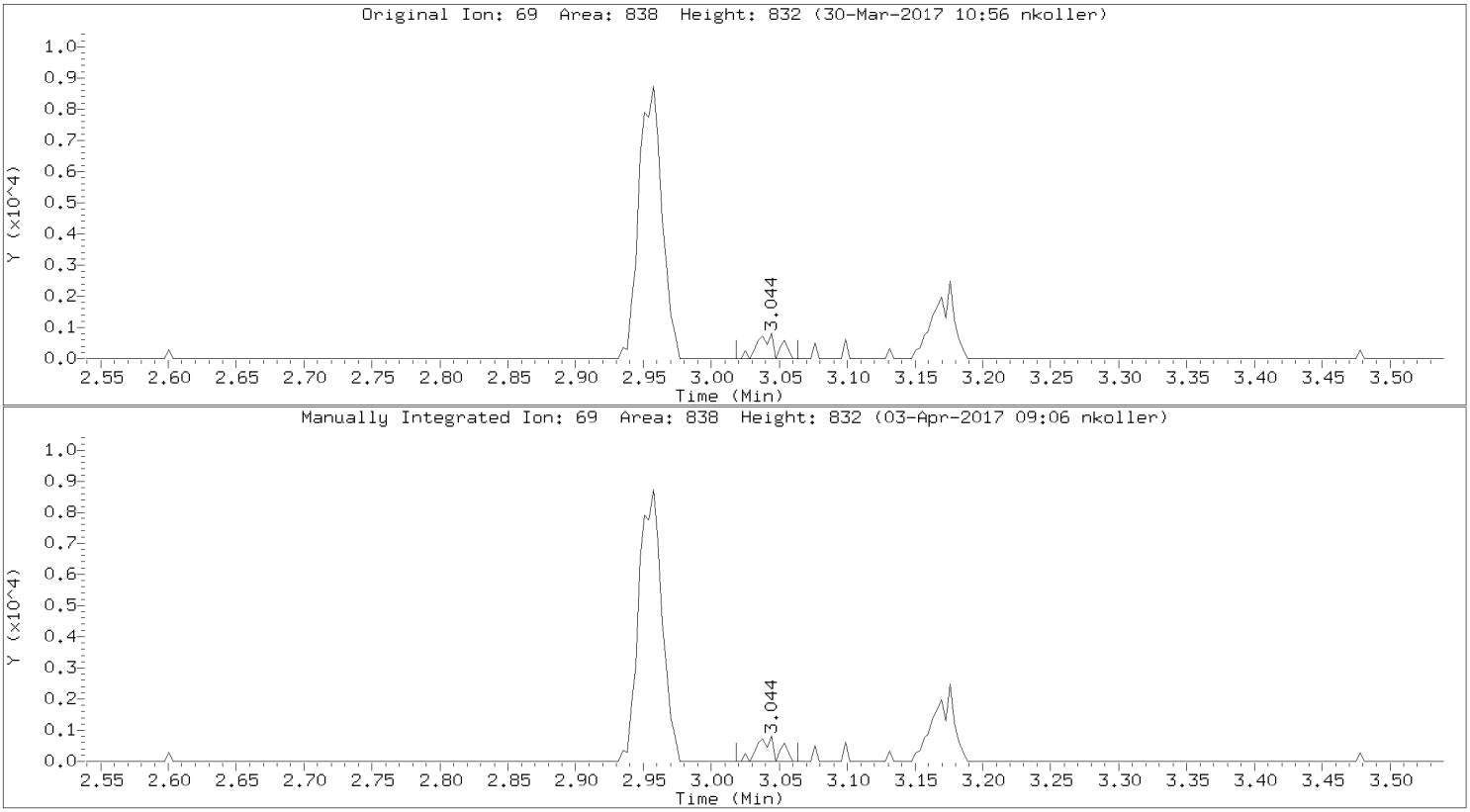








Data File: \\192.168.10.12\chem\10airB.i\033017.b/08842.D
Injection Date: 30-MAR-2017 05:32
Instrument: 10airB.i
Lab Sample ID: cal2



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08843.D
Report Date: 03-Apr-2017 09:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08843.D
Lab Smp Id: cal3
Inj Date : 30-MAR-2017 05:59
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 03-Apr-2017 09:04 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 43 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.915	2.951	(0.521)	23502	0.50000	0.521
2	1,1-Difluoroethane	65	2.986	3.025	(0.534)	17094	0.50000	0.488(QM)
3	Chlorodifluoromethane	67	3.009	3.034	(0.538)	7206	0.50000	0.485(Q)
4	Propylene	41	2.999	3.038	(0.536)	22731	0.50000	0.494
5	Dichlorodifluoromethane	85	3.034	3.070	(0.542)	76364	0.50000	0.480
6	Chloromethane	50	3.131	3.166	(0.559)	32705	0.50000	0.471
7	Dichlorotetrafluoroethane	85	3.137	3.176	(0.561)	71973	0.50000	0.499
8	Vinyl chloride	62	3.211	3.247	(0.574)	25643	0.50000	0.443
9	1,3-Butadiene	54	3.250	3.288	(0.581)	20964	0.50000	0.469
10	Bromomethane	94	3.385	3.423	(0.605)	20609	0.50000	0.460
11	Chloroethane	64	3.433	3.475	(0.613)	11689	0.50000	0.518
12	Ethanol	45	3.536	3.552	(0.632)	48130	2.50000	2.28
13	Vinyl Bromide	106	3.552	3.591	(0.635)	20146	0.50000	0.473(H)
14	Isopentane	43	3.568	3.607	(0.638)	29877	0.50000	0.501(H)
15	Freon 123	83	3.587	3.642	(0.641)	34941	0.50000	0.494(M)
16	Trichlorofluoromethane	101	3.642	3.681	(0.651)	54388	0.50000	0.479
17	Acrolein	56	3.664	3.690	(0.655)	20751	1.25000	1.18
18	Acetone	43	3.709	3.729	(0.663)	198191	2.50000	2.48
19	Isopropyl Alcohol	45	3.758	3.777	(0.671)	212648	2.50000	2.41
20	1,1-Dichloroethene	61	3.880	3.919	(0.693)	38271	0.50000	0.481
21	Acrylonitrile	53	3.899	3.935	(0.697)	44730	1.25000	1.16(H)
22	Freon 113	101	3.925	3.957	(0.701)	41537	0.50000	0.475
23	Methyl Acetate	43	3.951	3.967	(0.706)	65219	0.50000	0.504

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08843.D
Report Date: 03-Apr-2017 09:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.964	(0.707)	132075	1.25000	1.23
	25 Methylene chloride	49	3.976	4.012	(0.710)	154031	2.50000	2.51
	26 Allyl Chloride	76	3.989	4.025	(0.713)	18354	1.25000	1.35(QM)
	27 Carbon Disulfide	76	4.095	4.134	(0.732)	38289	0.50000	0.417
	28 trans-1,2-dichloroethene	96	4.246	4.282	(0.759)	17839	0.50000	0.435
	29 Methyl Tert Butyl Ether	73	4.304	4.308	(0.769)	141769	1.25000	1.23
	30 Vinyl Acetate	43	4.369	4.394	(0.781)	58313	0.50000	0.459
	31 1,1-Dichloroethane	63	4.378	4.417	(0.782)	41183	0.50000	0.472
$	32 Hexane-d14(S)	66	4.475	4.491	(0.800)	844054	10.0000	10.0
	33 Methyl Ethyl Ketone	72	4.555	4.562	(0.814)	10633	0.50000	0.480(Q)
	34 n-Hexane	57	4.574	4.591	(0.817)	41524	0.50000	0.463(QM)
	35 Di-isopropyl Ether	45	4.594	4.610	(0.821)	85918	0.50000	0.479
	36 Ethyl Acetate	43	4.713	4.722	(0.842)	53019	0.50000	0.457
	37 cis-1,2-Dichloroethene	96	4.700	4.732	(0.840)	20646	0.50000	0.436
	38 Ethyl Tert-Butyl Ether	59	4.825	4.835	(0.862)	220243	1.25000	1.21
	39 Chloroform	83	4.816	4.845	(0.860)	43819	0.50000	0.452
	40 Tetrahydrofuran	42	4.999	4.999	(0.893)	30753	0.50000	0.451
	41 1,1,1-Trichloroethane	97	5.211	5.237	(0.931)	52876	0.50000	0.460
	42 1,2-Dichloroethane	62	5.217	5.243	(0.932)	45009	0.50000	0.482
	43 Benzene	78	5.446	5.472	(0.973)	80182	0.50000	0.483
	44 Carbon tetrachloride	117	5.468	5.491	(0.977)	48549	0.50000	0.465
	45 Cyclohexane	56	5.471	5.494	(0.978)	45890	0.50000	0.485
	46 Tert Amyl Methyl Ether	73	5.603	5.610	(1.001)	96808	0.50000	0.381
*	47 1,4-Difluorobenzene	114	5.597	5.616	(1.000)	2206749	10.0000	
	48 2,2,4-Trimethylpentane	57	5.758	5.774	(1.029)	369643	1.25000	1.28
	49 Heptane	43	5.880	5.896	(1.051)	50669	0.50000	0.460
	50 1,2-Dichloropropane	63	5.954	5.970	(1.064)	29779	0.50000	0.453
	51 Trichloroethene	130	5.970	5.992	(1.067)	38954	0.50000	0.461
	52 Methyl methacrylate	69	6.047	6.050	(1.080)	24519	0.50000	0.445
	53 1,4-Dioxane	88	6.086	6.070	(1.087)	19953	0.50000	0.486
	54 Bromodichloromethane	83	6.069	6.089	(1.084)	47273	0.50000	0.299
	55 Methylcyclohexane	98	6.420	6.436	(1.147)	21808	0.50000	0.464
	56 Methyl Isobutyl Ketone	43	6.536	6.533	(1.168)	177759	1.25000	1.23
	57 cis-1,3-Dichloropropene	75	6.577	6.587	(1.175)	37776	0.50000	0.410
	58 trans-1,3-Dichloropropene	75	6.976	6.986	(1.246)	29568	0.50000	0.458
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	1805001	10.0000	9.69
	60 1,1,2-Trichloroethane	97	7.131	7.147	(1.274)	32077	0.50000	0.479
	61 Toluene	91	7.147	7.153	(1.277)	97568	0.50000	0.483
	62 Methyl Butyl Ketone	43	7.378	7.375	(0.854)	135460	1.25000	1.18
	63 n-Octane	43	7.577	7.584	(0.877)	67126	0.50000	0.511
	64 Dibromochloromethane	129	7.667	7.680	(0.888)	43549	0.50000	0.441
	65 1,2-Dibromoethane	107	7.899	7.909	(0.914)	46546	0.50000	0.472
	66 Tetrachloroethene	166	7.976	7.989	(0.923)	51023	0.50000	0.498
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	1257858	10.0000	
	68 Chlorobenzene	112	8.677	8.687	(1.004)	73230	0.50000	0.485
	69 Ethyl Benzene	91	8.928	8.938	(1.033)	117891	0.50000	0.498
	70 m&p-Xylene	91	9.073	9.082	(1.050)	185465	1.00000	1.04
	71 n-Nonane	43	9.471	9.471	(1.096)	58382	0.50000	0.505
	72 Bromoform	173	9.474	9.481	(1.097)	28792	0.50000	0.446
	73 Styrene	104	9.500	9.507	(1.100)	64209	0.50000	0.485
	74 o-Xylene	91	9.574	9.581	(1.108)	91883	0.50000	0.502
	75 1,1,2,2-Tetrachloroethane	83	9.825	9.831	(1.137)	44645	0.50000	0.458
	76 Isopropylbenzene	105	10.159	10.163	(1.176)	124937	0.50000	0.500
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	125757	0.50000	0.485

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08843.D
Report Date: 03-Apr-2017 09:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.905	10.912	(1.262)	105151	0.50000	0.480
79	1,3,5-Trimethylbenzene	105	10.995	11.002	(1.273)	93299	0.50000	0.491
80	n-Decane	57	11.372	11.378	(2.032)	50512	0.50000	0.398
81	Tert-Butyl Benzene	119	11.490	11.497	(1.330)	101911	0.50000	0.508
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	85985	0.50000	0.499
83	1,3-Dichlorobenzene	146	11.789	11.796	(1.365)	41995	0.50000	0.440
84	Sec- Butylbenzene	105	11.799	11.806	(1.366)	124310	0.50000	0.497
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	493023	10.0000	8.60
86	Benzyl Chloride	91	11.860	11.867	(1.373)	17889	0.50000	0.419
87	1,4-Dichlorobenzene	146	11.880	11.889	(1.375)	41493	0.50000	0.328
88	p-Isopropyltoluene	119	11.982	11.989	(1.387)	95015	0.50000	0.461
89	1,2,3-Trimethylbenzene	105	12.027	12.034	(1.392)	79477	0.50000	0.476
90	1,2-Dichlorobenzene	146	12.275	12.282	(1.421)	37547	0.50000	0.448
91	N-Butylbenzene	91	12.458	12.458	(1.442)	58227	0.50000	0.449
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.905	(1.494)	7188	0.50000	0.498
93	1,2,4-Trichlorobenzene	180	14.037	14.040	(1.625)	3385	0.50000	0.534(M)
94	Naphthalene	128	14.169	14.172	(1.640)	14223	0.50000	0.443
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	16296	0.50000	0.393

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08843.D
Report Date: 03-Apr-2017 09:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08843.D
Lab Smp Id: cal3
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info:

Calibration Date: 30-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

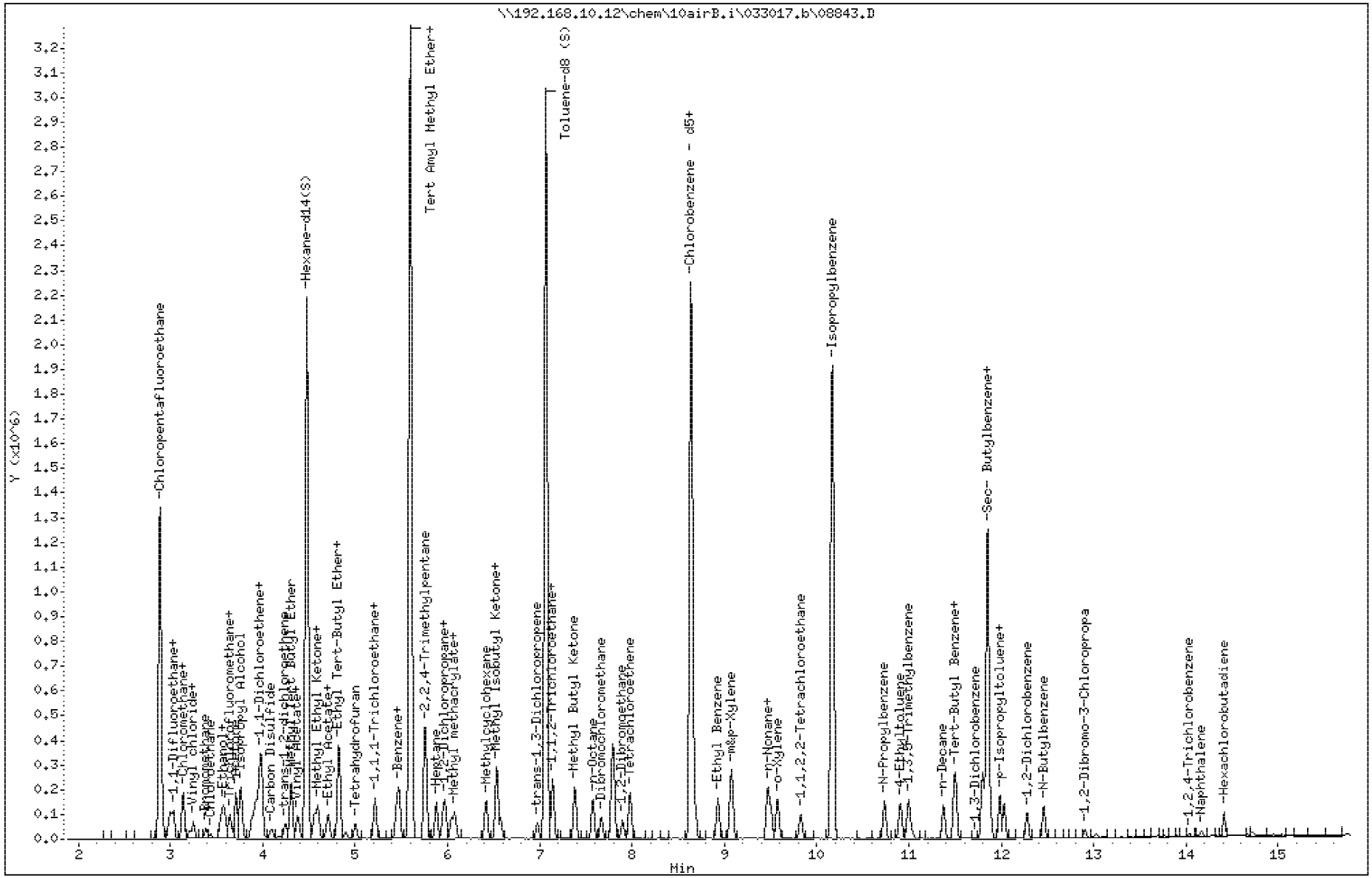
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	2206749	21.09
67 Chlorobenzene - d	1204744	722846	1686642	1257858	4.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.60	-0.34
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

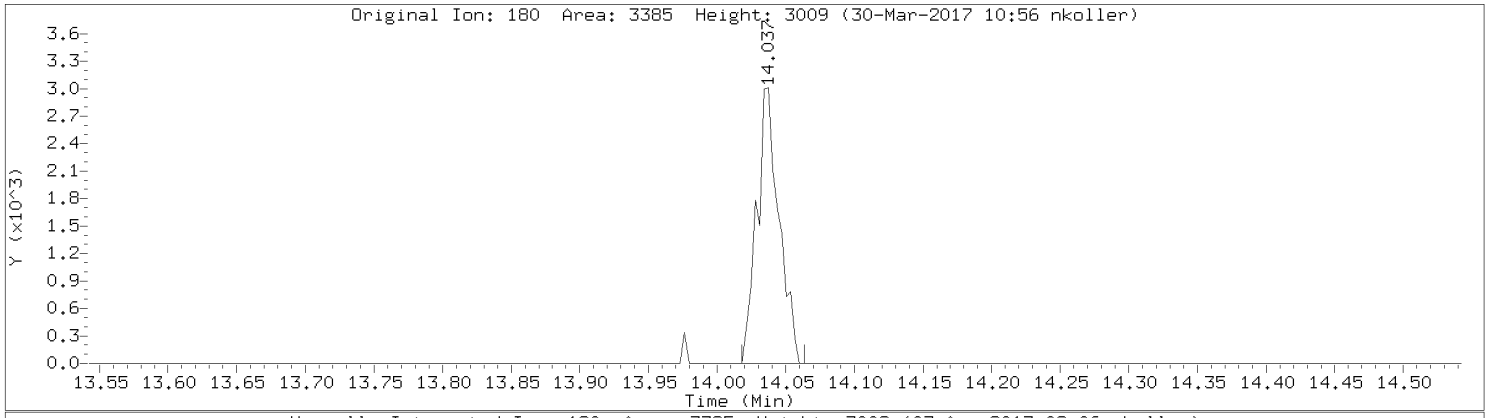
Data File: \\192.168.10.12\chem\10airB.i\033017.b\08843.D
Date : 30-MAR-2017 05:59
Client ID:
Sample Info:

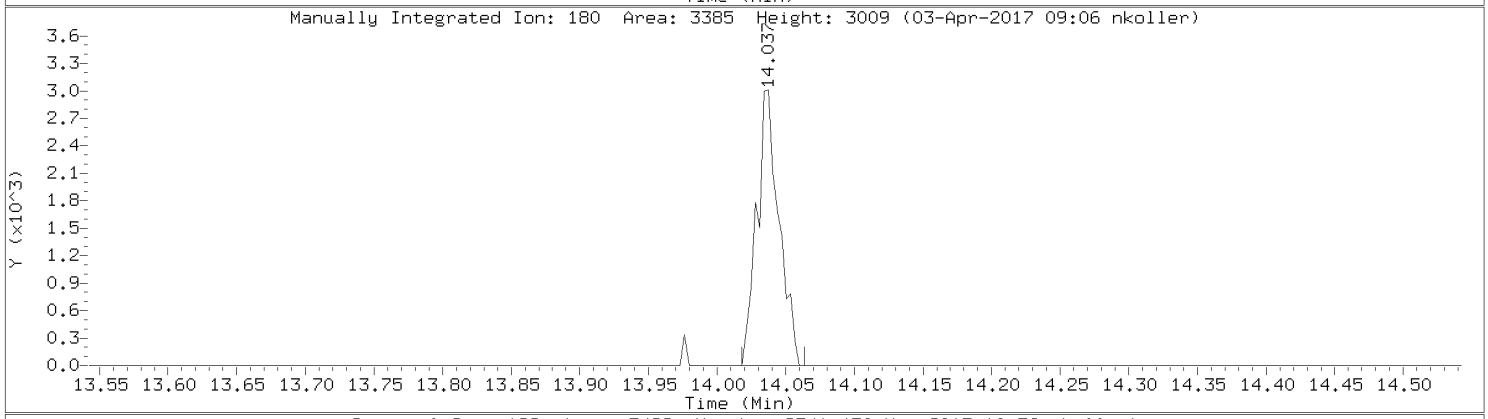
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

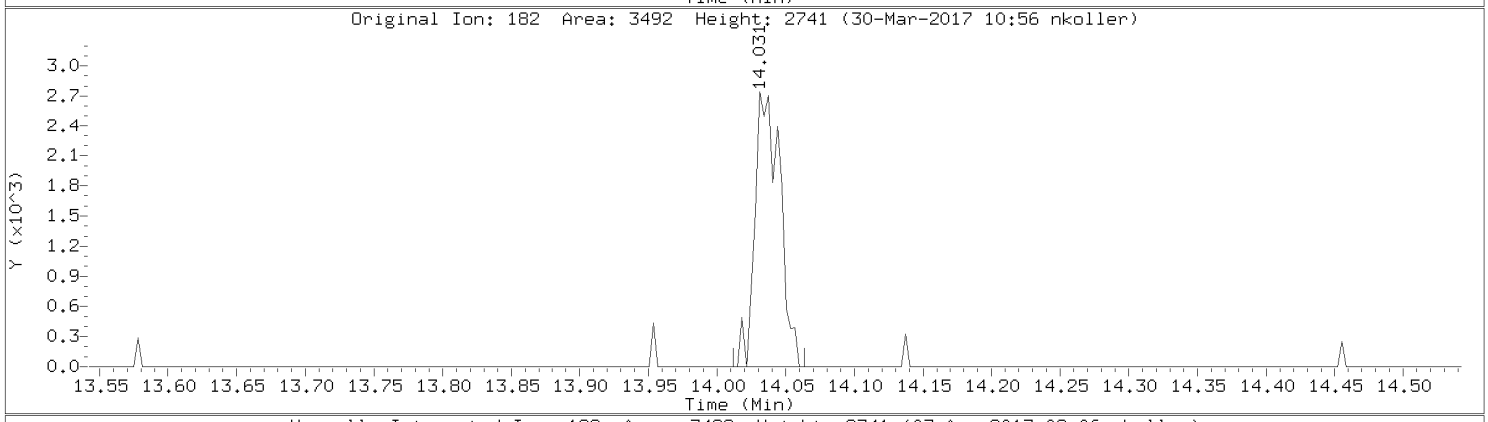


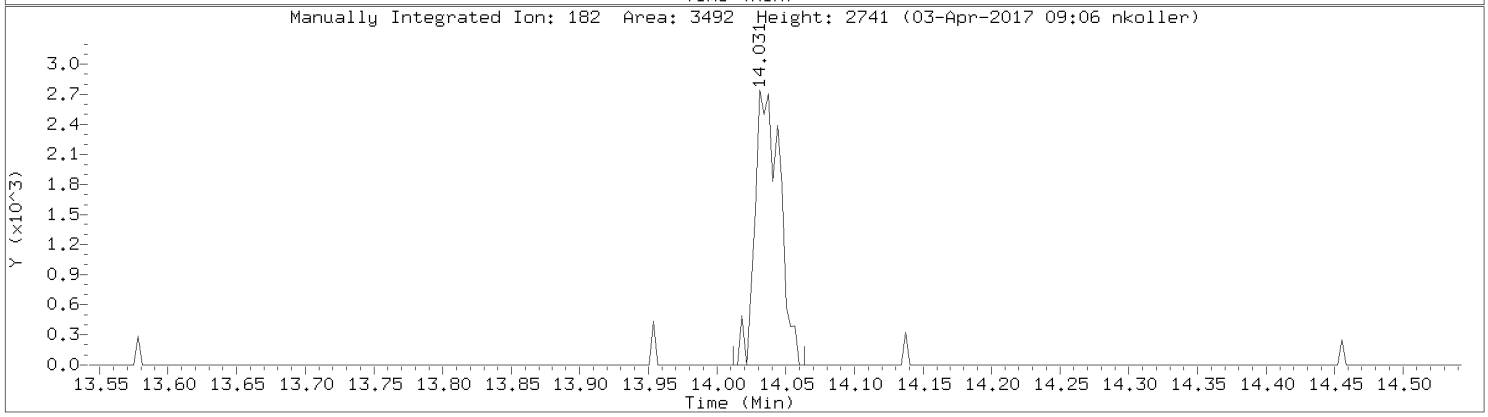
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08843.D
Injection Date: 30-MAR-2017 05:59
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

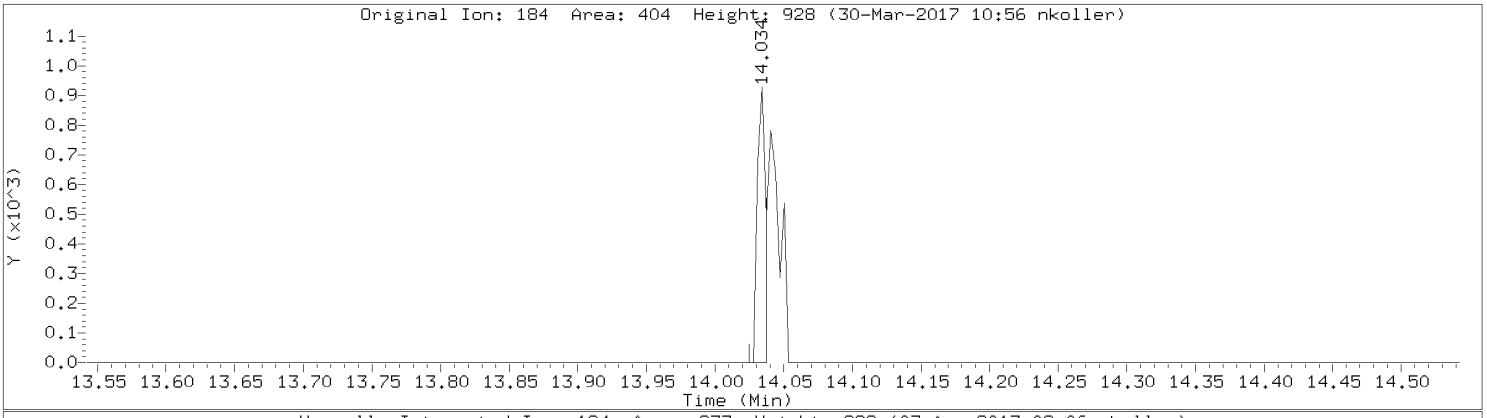


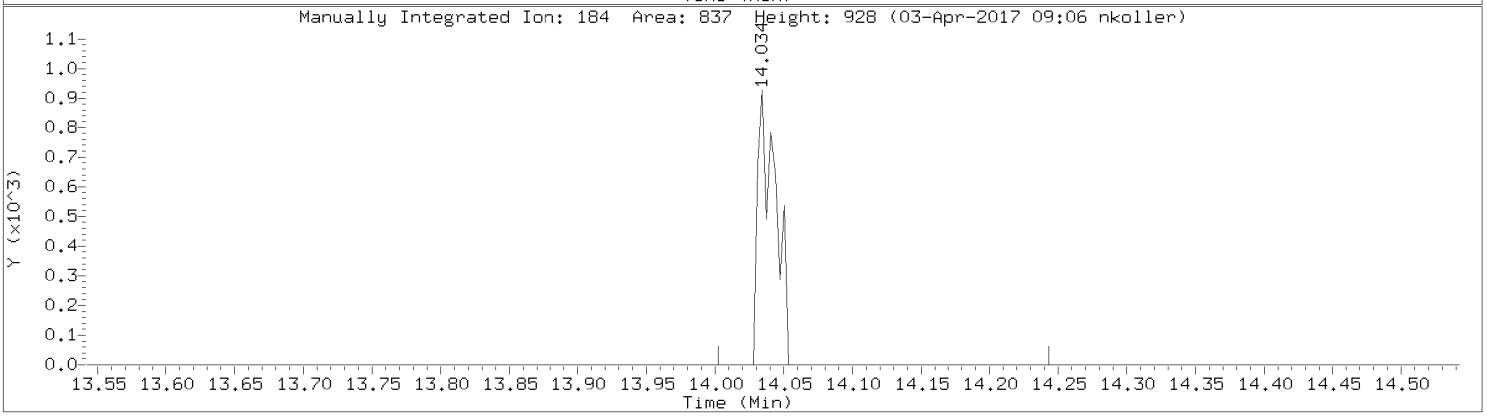






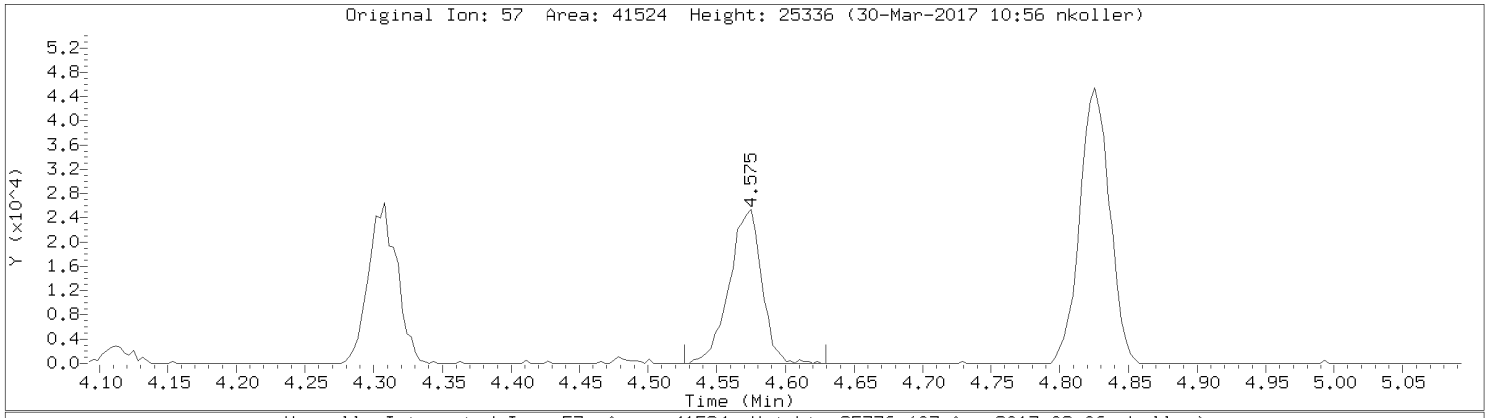
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08843.D
Injection Date: 30-MAR-2017 05:59
Instrument: 10airB.i
Lab Sample ID: cal3

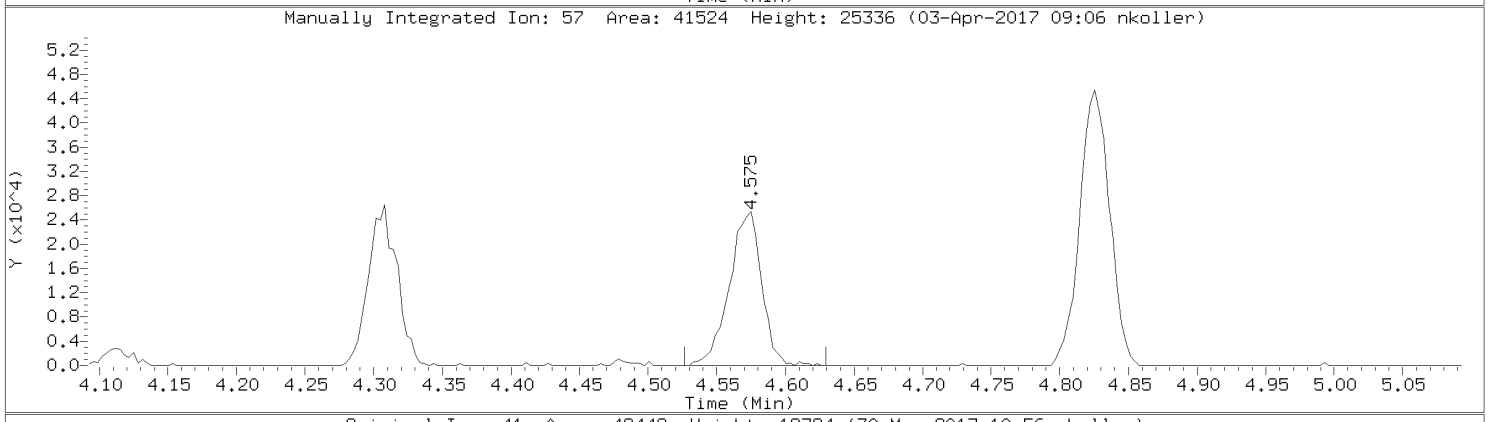


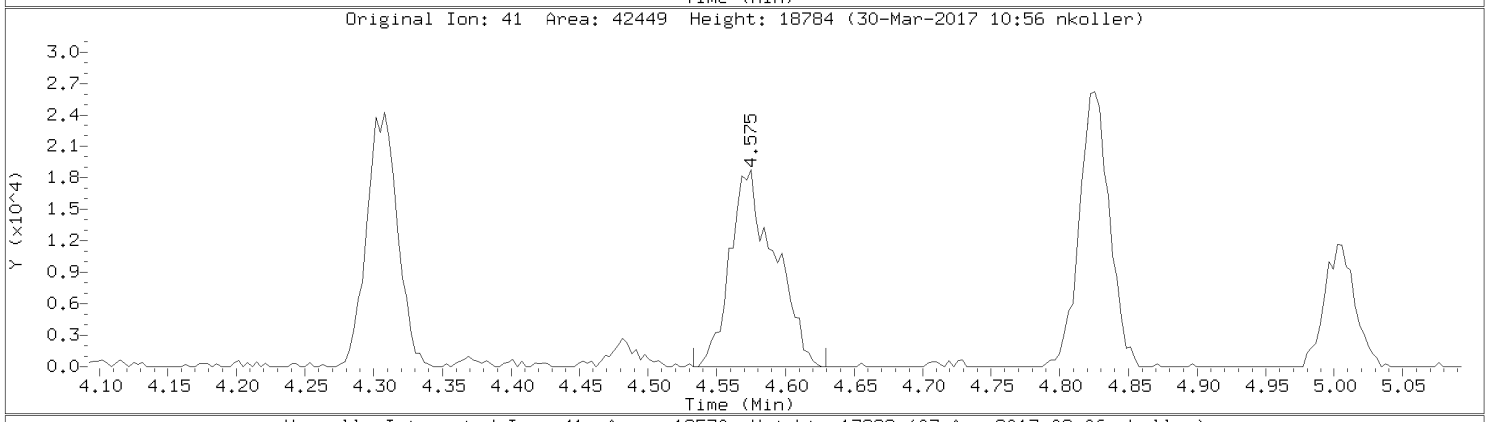


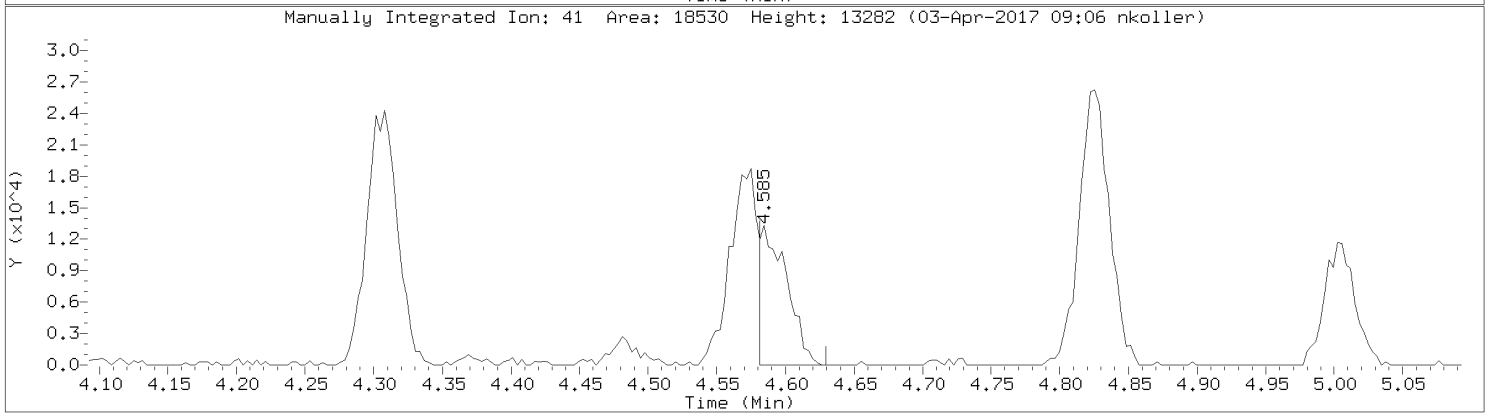
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08843.D
Injection Date: 30-MAR-2017 05:59
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: n-Hexane
CAS Number: 110-54-3

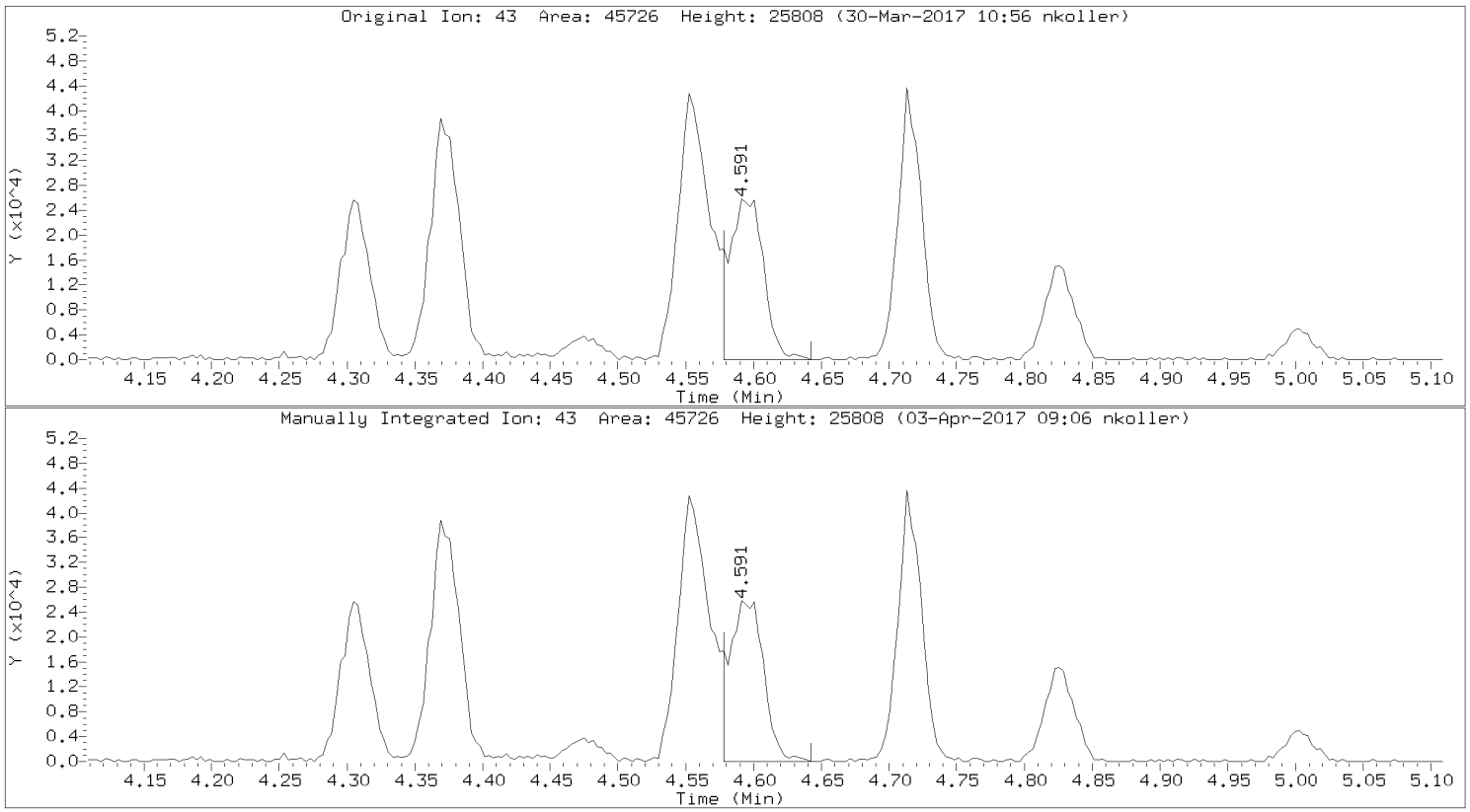






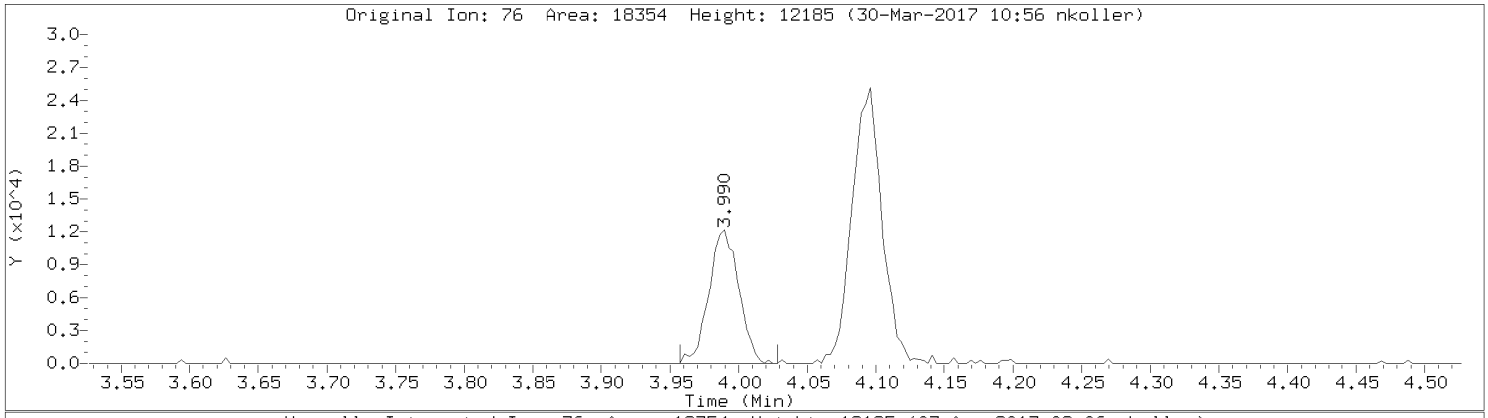


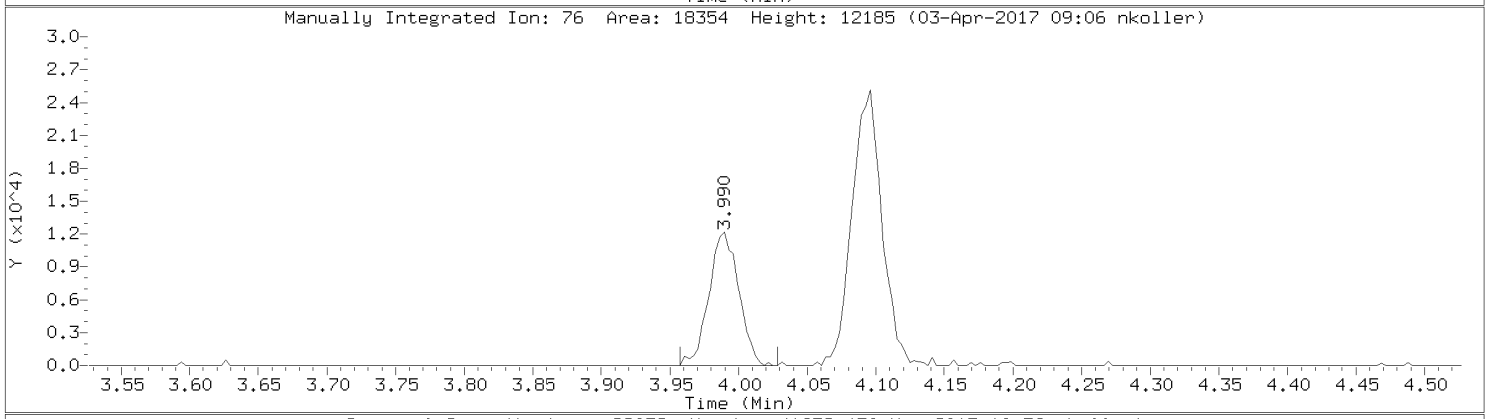
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08843.D
Injection Date: 30-MAR-2017 05:59
Instrument: 10airB.i
Lab Sample ID: cal3

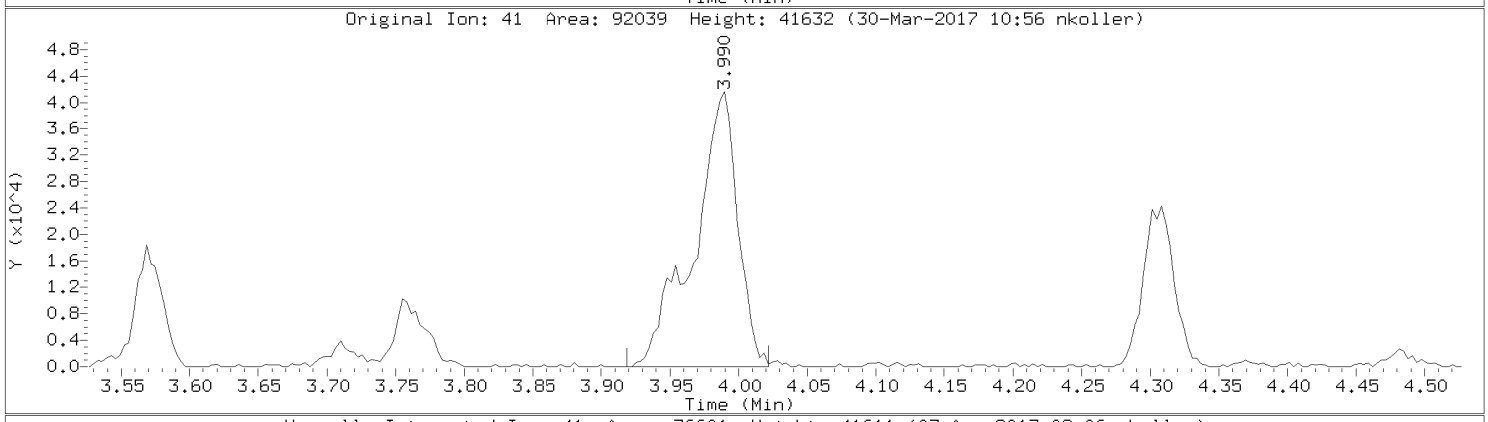


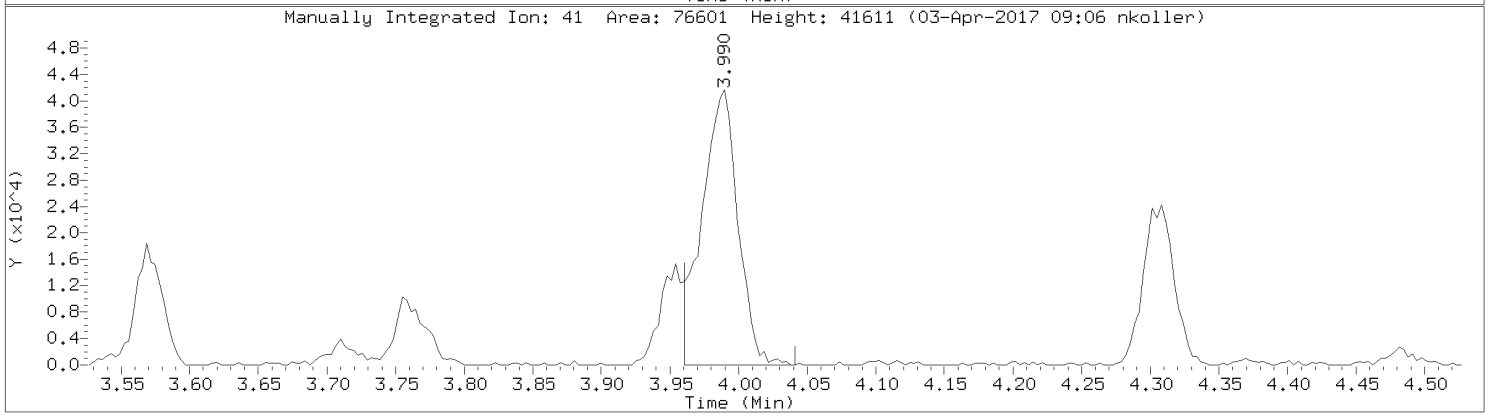
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08843.D
Injection Date: 30-MAR-2017 05:59
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Allyl Chloride
CAS Number: 107-05-1

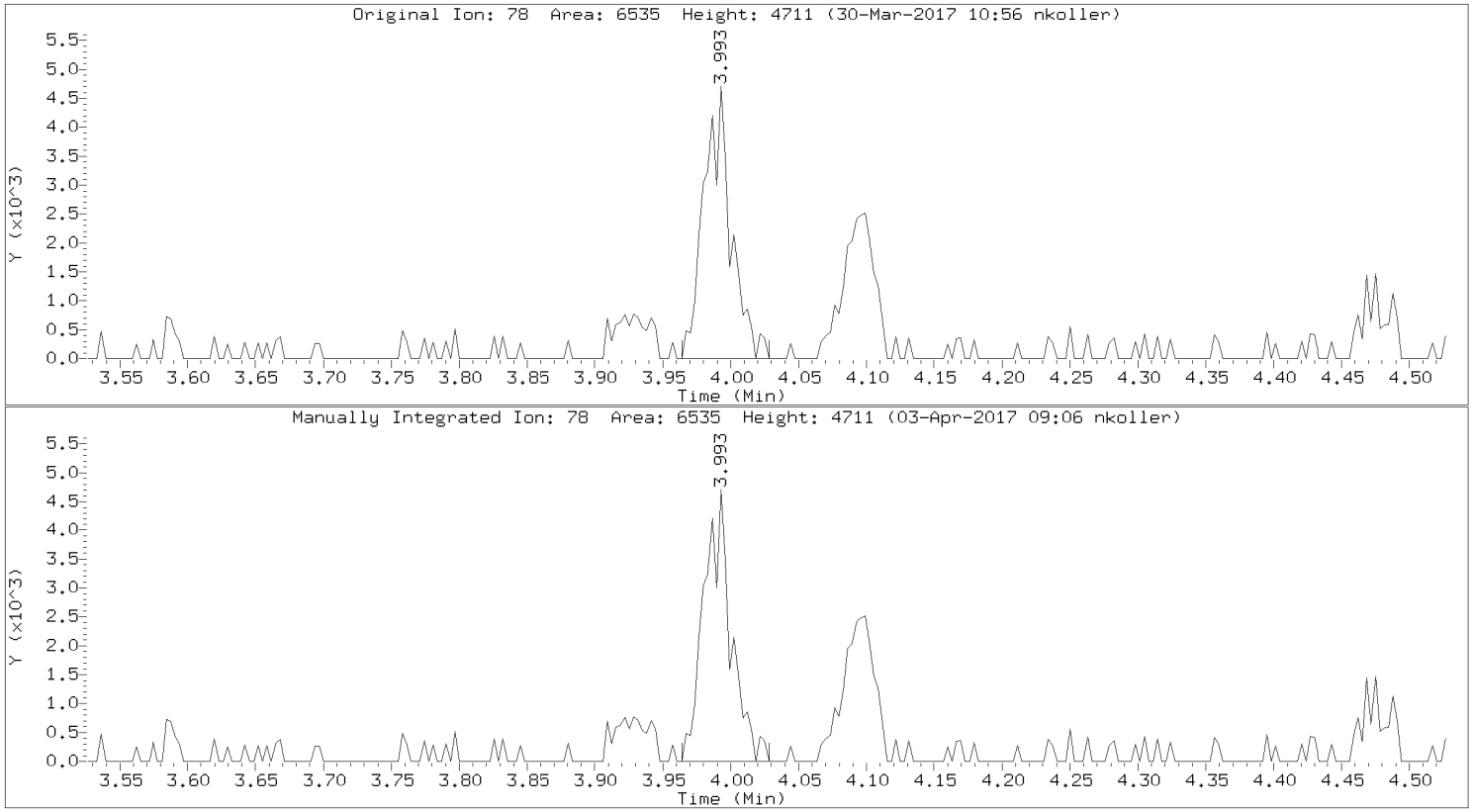






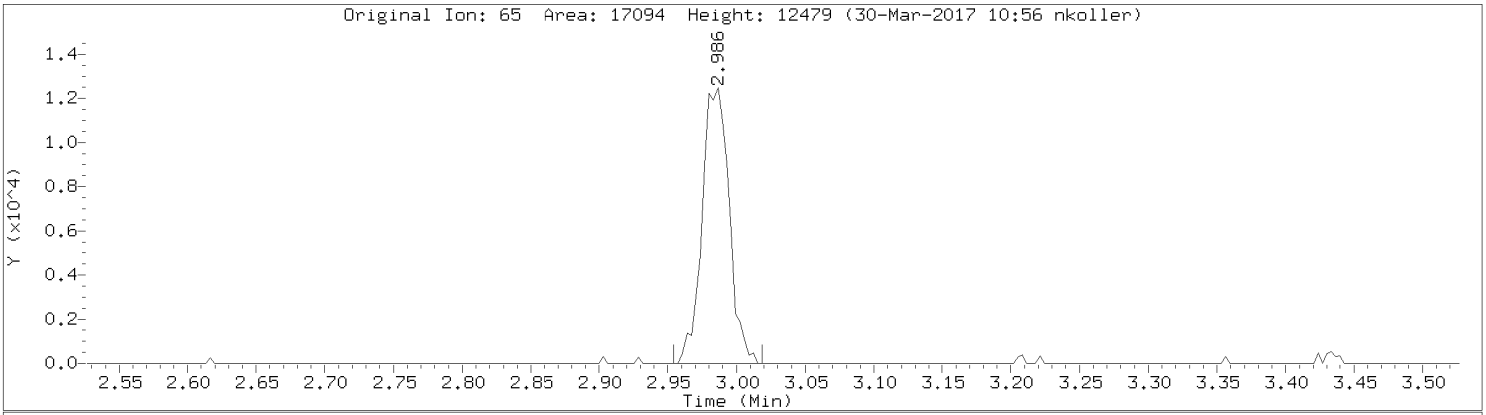


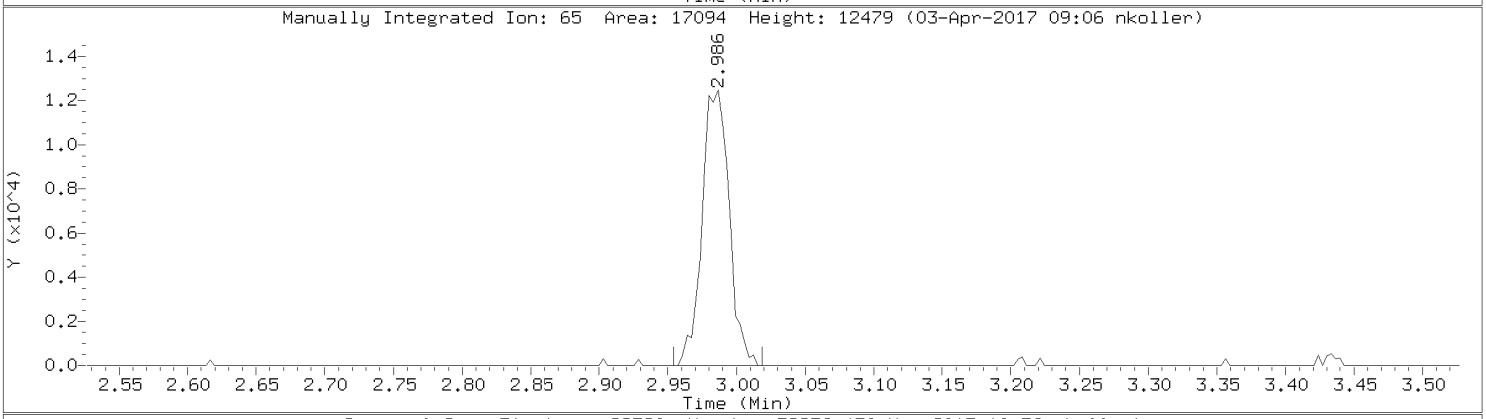
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08843.D
Injection Date: 30-MAR-2017 05:59
Instrument: 10airB.i
Lab Sample ID: cal3

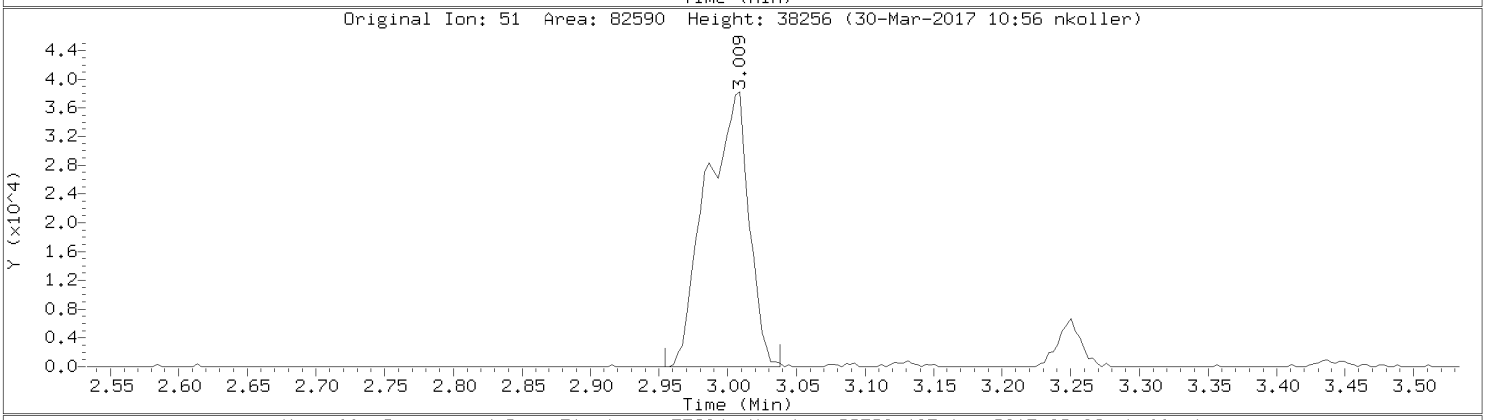


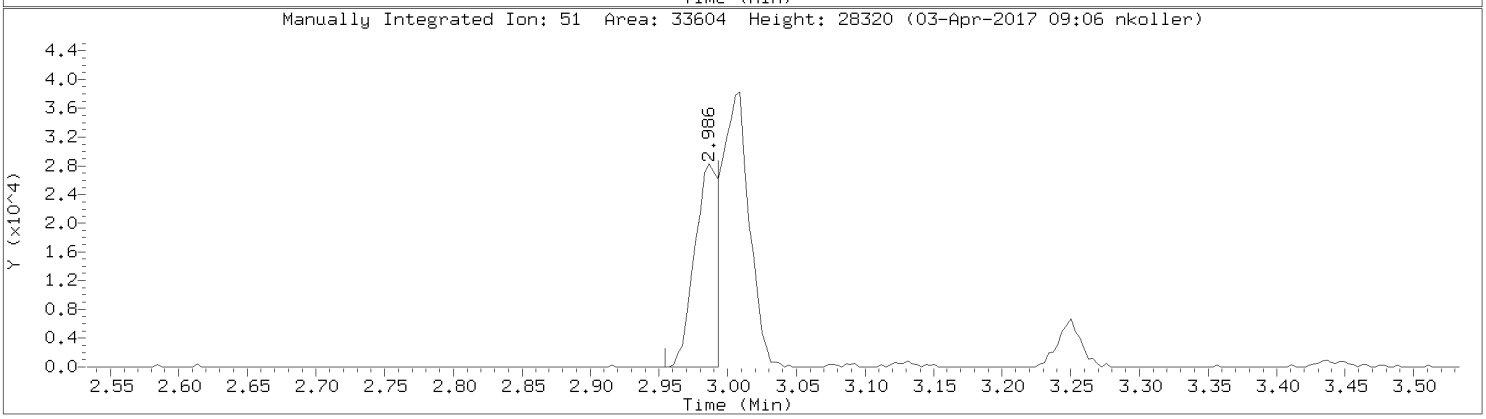
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08843.D
Injection Date: 30-MAR-2017 05:59
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

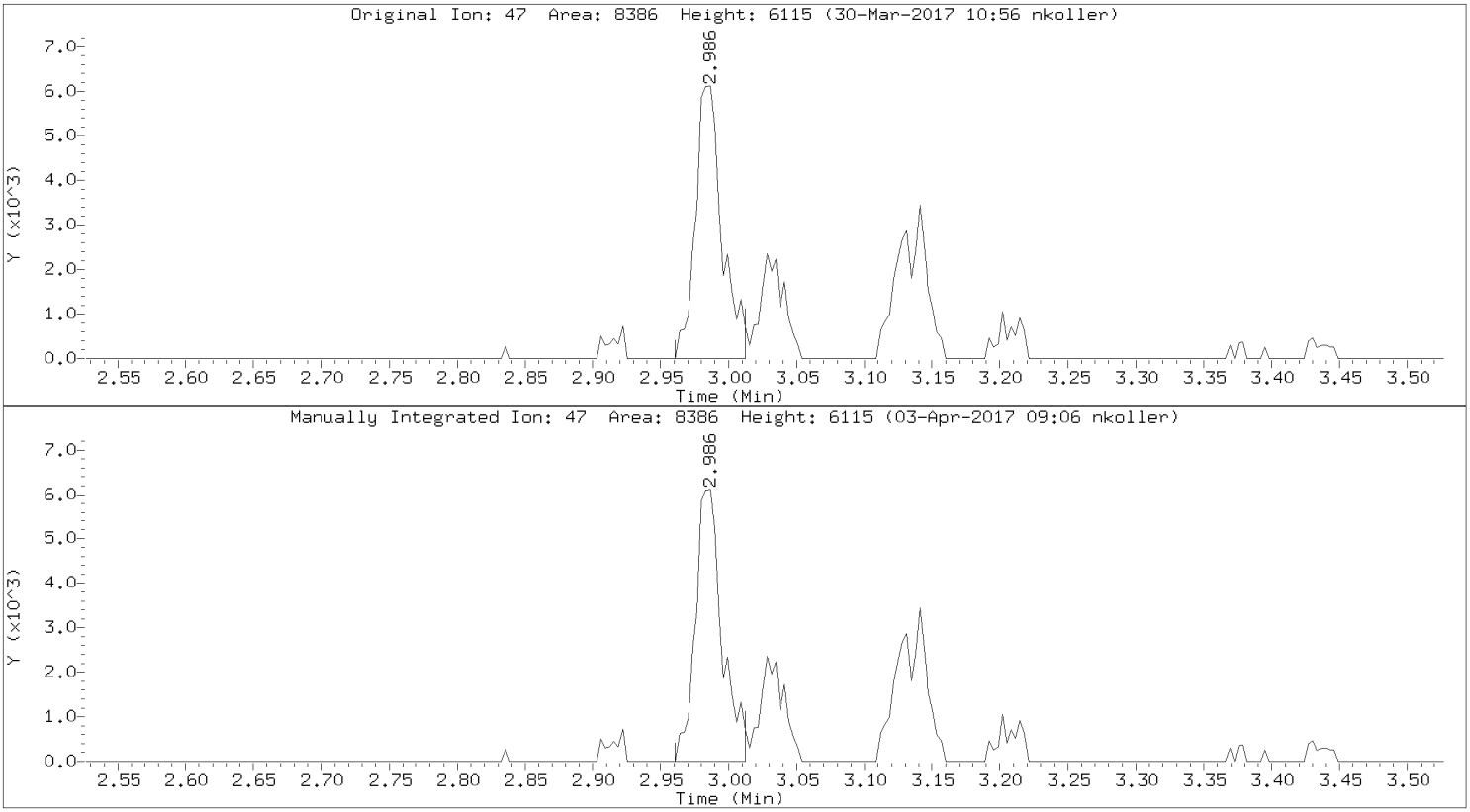






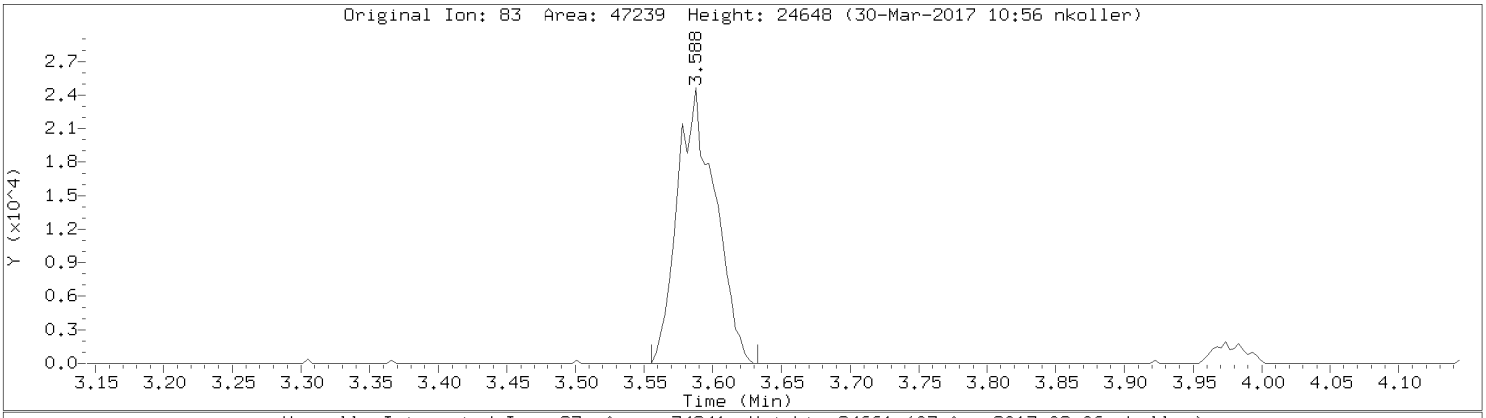


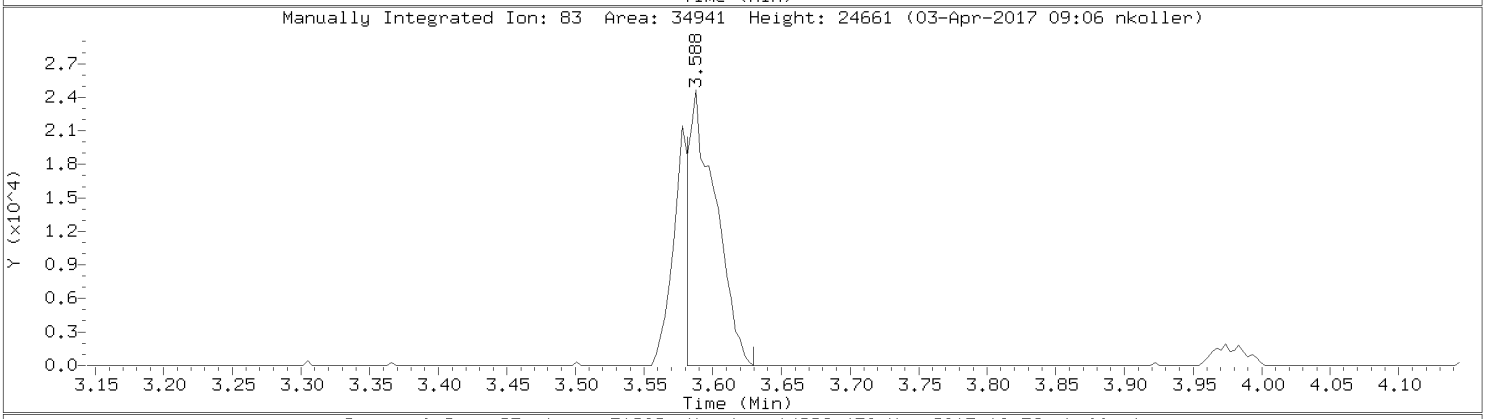
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08843.D
Injection Date: 30-MAR-2017 05:59
Instrument: 10airB.i
Lab Sample ID: cal3

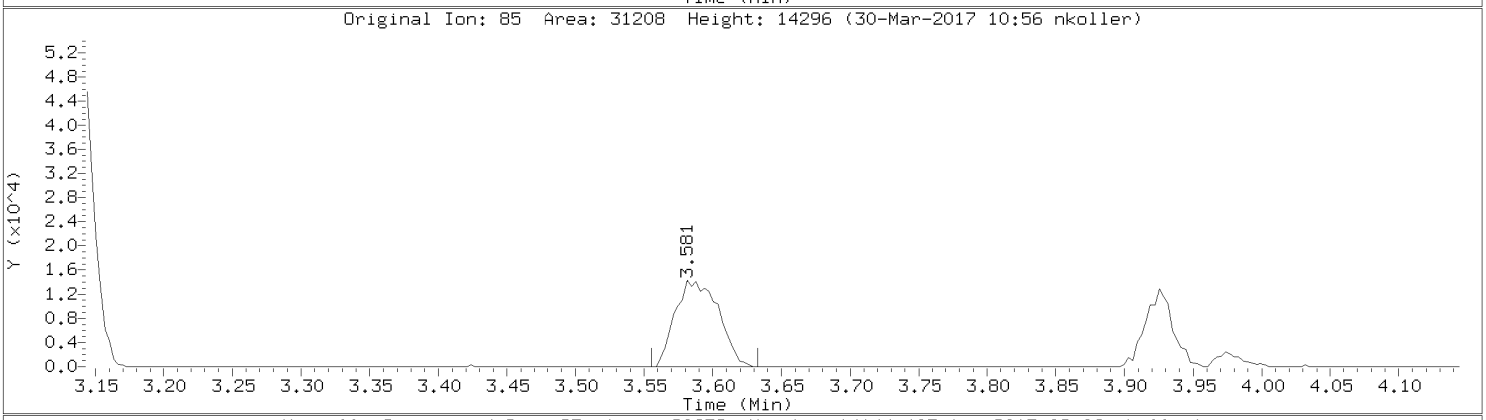


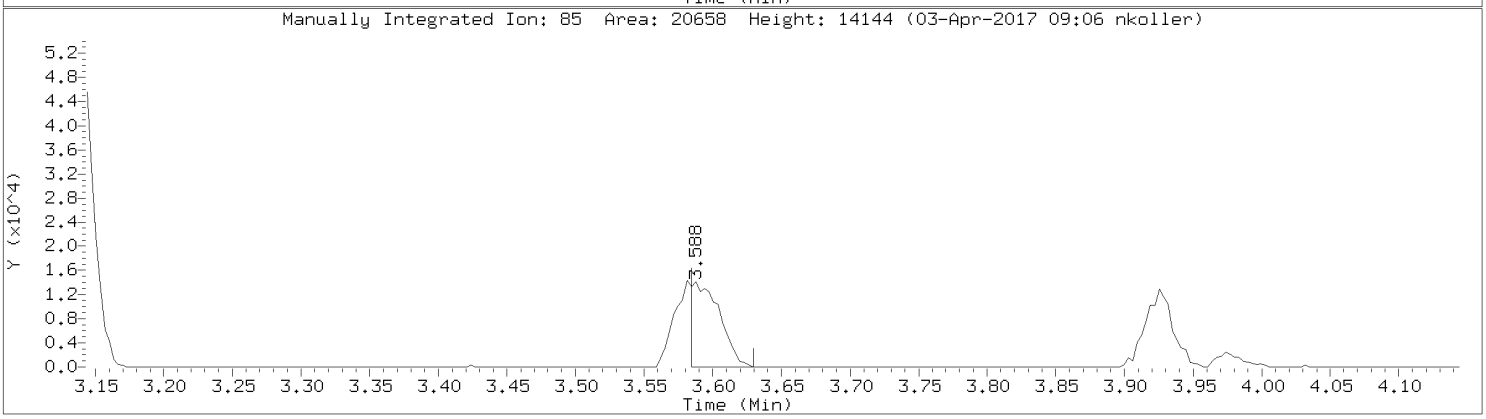
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08843.D
Injection Date: 30-MAR-2017 05:59
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Freon 123
CAS Number: 306-83-2

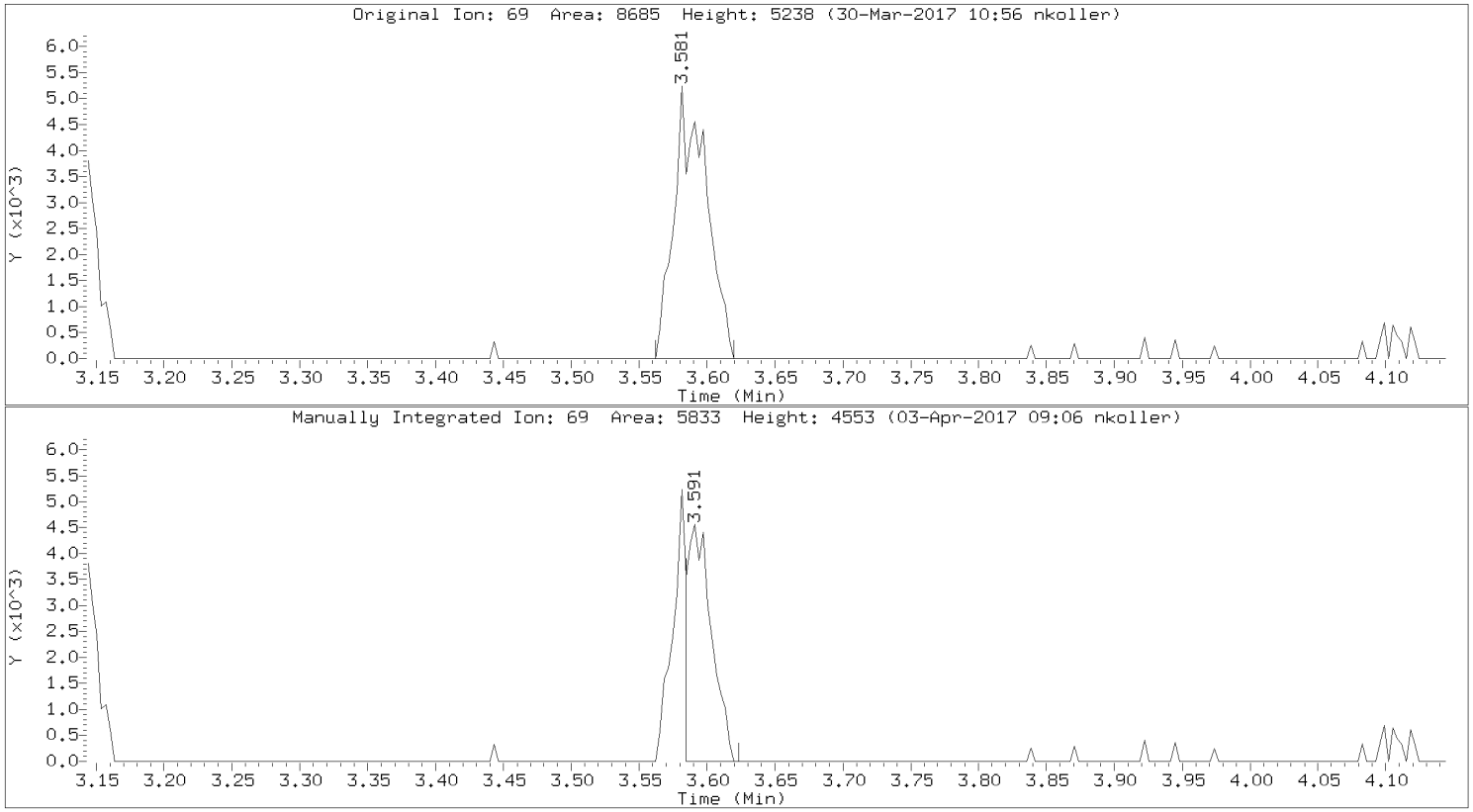








Data File: \\192.168.10.12\chem\10airB.i\033017.b/08843.D
Injection Date: 30-MAR-2017 05:59
Instrument: 10airB.i
Lab Sample ID: cal3



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08844.D
Report Date: 03-Apr-2017 09:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08844.D
Lab Smp Id: cal4
Inj Date : 30-MAR-2017 06:27
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 03-Apr-2017 09:04 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 44 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.944	2.951	(0.526)	32931	1.00000	0.761
2	1,1-Difluoroethane	65	3.008	3.025	(0.537)	30083	1.00000	0.846(QM)
3	Chlorodifluoromethane	67	3.028	3.034	(0.541)	14124	1.00000	0.937(QM)
4	Propylene	41	3.028	3.038	(0.541)	42132	1.00000	0.902
5	Dichlorodifluoromethane	85	3.057	3.070	(0.546)	144090	1.00000	0.893(H)
6	Chloromethane	50	3.150	3.166	(0.563)	63420	1.00000	0.900
7	Dichlorotetrafluoroethane	85	3.156	3.176	(0.564)	134531	1.00000	0.920
8	Vinyl chloride	62	3.227	3.247	(0.576)	49381	1.00000	0.840
9	1,3-Butadiene	54	3.269	3.288	(0.584)	39127	1.00000	0.862
10	Bromomethane	94	3.404	3.423	(0.608)	39617	1.00000	0.872
11	Chloroethane	64	3.449	3.475	(0.616)	22521	1.00000	0.890
12	Ethanol	45	3.536	3.552	(0.631)	91127	5.00000	4.26
13	Vinyl Bromide	106	3.568	3.591	(0.637)	38323	1.00000	0.886
14	Isopentane	43	3.584	3.607	(0.640)	54148	1.00000	0.894(H)
15	Freon 123	83	3.610	3.642	(0.645)	53159	1.00000	0.740(M)
16	Trichlorofluoromethane	101	3.658	3.681	(0.653)	107577	1.00000	0.934
17	Acrolein	56	3.674	3.690	(0.656)	40212	2.50000	2.26
18	Acetone	43	3.713	3.729	(0.663)	375900	5.00000	4.64
19	Isopropyl Alcohol	45	3.754	3.777	(0.670)	406156	5.00000	4.54
20	1,1-Dichloroethene	61	3.893	3.919	(0.695)	74505	1.00000	0.923
21	Acrylonitrile	53	3.909	3.935	(0.698)	95419	2.50000	2.43
22	Freon 113	101	3.934	3.957	(0.703)	86517	1.00000	0.976
23	Methyl Acetate	43	3.947	3.967	(0.705)	124411	1.00000	0.946

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08844.D
Report Date: 03-Apr-2017 09:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.950	3.964	(0.705)	260514	2.50000	2.38(M)
	25 Methylene chloride	49	3.989	4.012	(0.712)	291848	5.00000	4.69
	26 Allyl Chloride	76	3.999	4.025	(0.714)	35643	2.50000	2.59
	27 Carbon Disulfide	76	4.108	4.134	(0.734)	79743	1.00000	0.775
	28 trans-1,2-dichloroethene	96	4.259	4.282	(0.761)	37875	1.00000	0.911
	29 Methyl Tert Butyl Ether	73	4.304	4.308	(0.769)	270885	2.50000	2.32
	30 Vinyl Acetate	43	4.375	4.394	(0.781)	114753	1.00000	0.891
	31 1,1-Dichloroethane	63	4.388	4.417	(0.784)	78970	1.00000	0.892
$	32 Hexane-d14(S)	66	4.481	4.491	(0.800)	840852	10.0000	9.83
	33 Methyl Ethyl Ketone	72	4.548	4.562	(0.812)	20412	1.00000	0.908(Q)
	34 n-Hexane	57	4.577	4.591	(0.817)	79908	1.00000	0.878(QM)
	35 Di-isopropyl Ether	45	4.600	4.610	(0.821)	161756	1.00000	0.888
	36 Ethyl Acetate	43	4.712	4.722	(0.842)	102344	1.00000	0.869
	37 cis-1,2-Dichloroethene	96	4.709	4.732	(0.841)	40582	1.00000	0.844
	38 Ethyl Tert-Butyl Ether	59	4.825	4.835	(0.862)	448783	2.50000	2.43
	39 Chloroform	83	4.819	4.845	(0.860)	90321	1.00000	0.917
	40 Tetrahydrofuran	42	4.999	4.999	(0.893)	60665	1.00000	0.876
	41 1,1,1-Trichloroethane	97	5.217	5.237	(0.932)	105986	1.00000	0.909
	42 1,2-Dichloroethane	62	5.224	5.243	(0.933)	88097	1.00000	0.929
	43 Benzene	78	5.452	5.472	(0.974)	150662	1.00000	0.895
	44 Carbon tetrachloride	117	5.471	5.491	(0.977)	97595	1.00000	0.920
	45 Cyclohexane	56	5.484	5.494	(0.979)	92031	1.00000	0.958
	46 Tert Amyl Methyl Ether	73	5.603	5.610	(1.001)	165850	1.00000	0.767
*	47 1,4-Difluorobenzene	114	5.600	5.616	(1.000)	2239412	10.0000	
	48 2,2,4-Trimethylpentane	57	5.757	5.774	(1.028)	719407	2.50000	2.46
	49 Heptane	43	5.880	5.896	(1.050)	100937	1.00000	0.904
	50 1,2-Dichloropropane	63	5.954	5.970	(1.063)	59450	1.00000	0.891
	51 Trichloroethene	130	5.976	5.992	(1.067)	79194	1.00000	0.923
	52 Methyl methacrylate	69	6.044	6.050	(1.079)	50788	1.00000	0.908
	53 1,4-Dioxane	88	6.079	6.070	(1.086)	36544	1.00000	0.878
	54 Bromodichloromethane	83	6.073	6.089	(1.084)	100637	1.00000	0.711
	55 Methylcyclohexane	98	6.420	6.436	(1.146)	43014	1.00000	0.902
	56 Methyl Isobutyl Ketone	43	6.532	6.533	(1.166)	343108	2.50000	2.35
	57 cis-1,3-Dichloropropene	75	6.584	6.587	(1.176)	77747	1.00000	0.772
	58 trans-1,3-Dichloropropene	75	6.976	6.986	(1.246)	63447	1.00000	0.786
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.262)	1804707	10.0000	9.54
	60 1,1,2-Trichloroethane	97	7.137	7.147	(1.274)	63970	1.00000	0.942
	61 Toluene	91	7.143	7.153	(1.276)	188081	1.00000	0.917
	62 Methyl Butyl Ketone	43	7.378	7.375	(0.854)	276203	2.50000	2.37
	63 n-Octane	43	7.574	7.584	(0.877)	130882	1.00000	0.979
	64 Dibromochloromethane	129	7.667	7.680	(0.888)	95227	1.00000	0.811
	65 1,2-Dibromoethane	107	7.902	7.909	(0.915)	95986	1.00000	0.955
	66 Tetrachloroethene	166	7.976	7.989	(0.923)	101765	1.00000	0.976
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	1280808	10.0000	
	68 Chlorobenzene	112	8.683	8.687	(1.005)	146169	1.00000	0.951
	69 Ethyl Benzene	91	8.928	8.938	(1.033)	236131	1.00000	0.980
	70 m&p-Xylene	91	9.072	9.082	(1.050)	370479	2.00000	2.04
	71 n-Nonane	43	9.468	9.471	(1.096)	122776	1.00000	1.04
	72 Bromoform	173	9.471	9.481	(1.096)	60035	1.00000	0.726
	73 Styrene	104	9.500	9.507	(1.100)	129646	1.00000	0.962(M)
	74 o-Xylene	91	9.574	9.581	(1.108)	184649	1.00000	0.991
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.831	(1.137)	92051	1.00000	0.927
	76 Isopropylbenzene	105	10.156	10.163	(1.176)	252170	1.00000	0.990
	77 N-Propylbenzene	91	10.735	10.738	(1.243)	261233	1.00000	0.989

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08844.D
Report Date: 03-Apr-2017 09:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.908	10.912	(1.263)	219532	1.00000	0.985
79	1,3,5-Trimethylbenzene	105	10.995	11.002	(1.273)	191763	1.00000	0.991
80	n-Decane	57	11.375	11.378	(2.031)	105755	1.00000	0.730
81	Tert-Butyl Benzene	119	11.494	11.497	(1.331)	204159	1.00000	0.999
82	1,2,4-Trimethylbenzene	105	11.506	11.510	(1.332)	172982	1.00000	0.986
83	1,3-Dichlorobenzene	146	11.789	11.796	(1.365)	91614	1.00000	0.783
84	Sec- Butylbenzene	105	11.802	11.806	(1.366)	248753	1.00000	0.977
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	542086	10.0000	9.28
86	Benzyl Chloride	91	11.860	11.867	(1.373)	41629	1.00000	0.593
87	1,4-Dichlorobenzene	146	11.883	11.889	(1.376)	84162	1.00000	0.662
88	p-Isopropyltoluene	119	11.985	11.989	(1.387)	198376	1.00000	0.946
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	162654	1.00000	0.957
90	1,2-Dichlorobenzene	146	12.281	12.282	(1.422)	77914	1.00000	0.752
91	N-Butylbenzene	91	12.458	12.458	(1.442)	126541	1.00000	0.761
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	16753	1.00000	0.713
93	1,2,4-Trichlorobenzene	180	14.040	14.040	(1.625)	8856	1.00000	0.710
94	Naphthalene	128	14.175	14.172	(1.641)	34038	1.00000	0.672
95	Hexachlorobutadiene	225	14.410	14.413	(1.668)	32853	1.00000	0.802

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08844.D
Report Date: 03-Apr-2017 09:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08844.D
Lab Smp Id: cal4
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info:

Calibration Date: 30-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

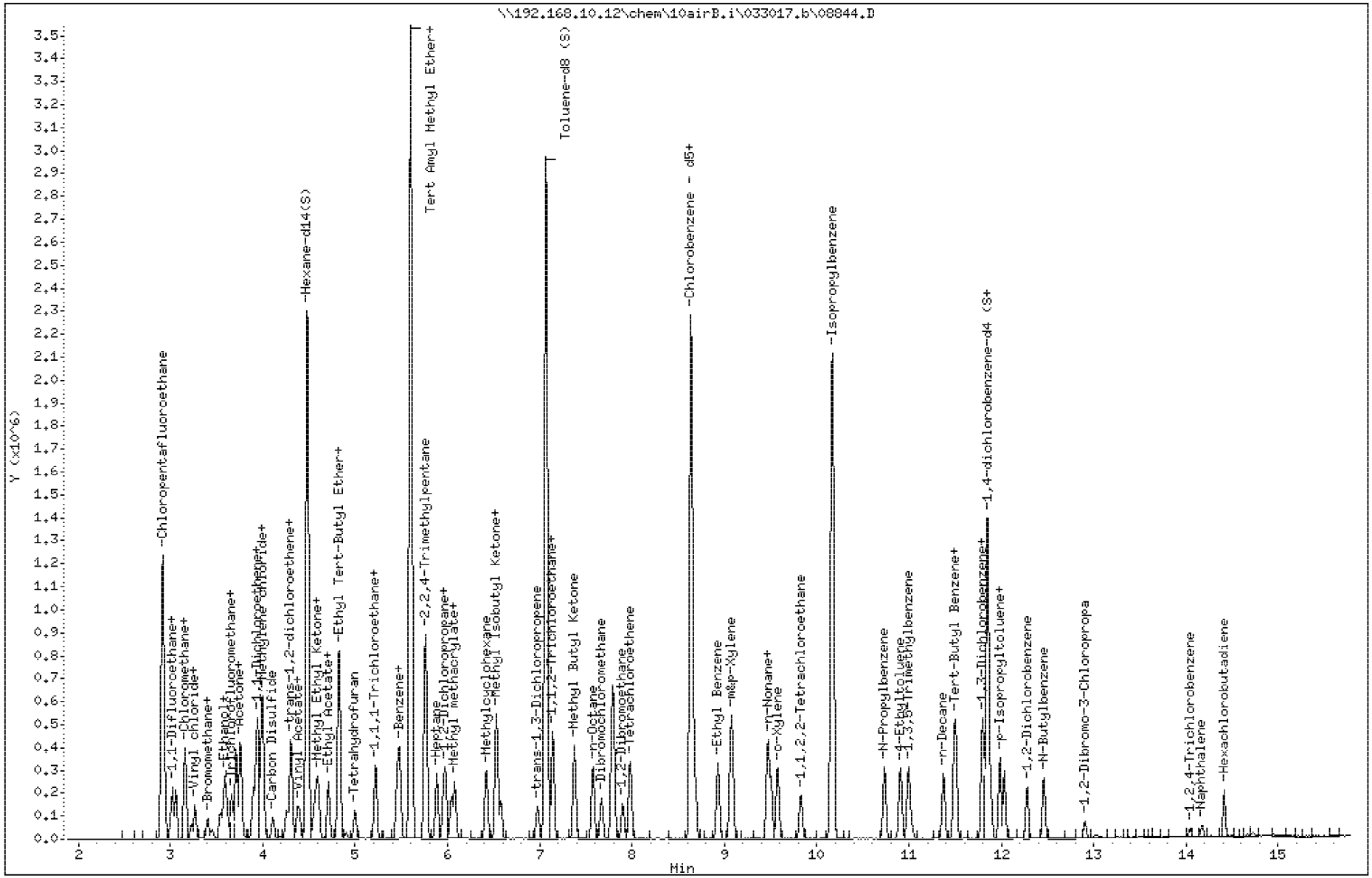
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	2239412	22.88
67 Chlorobenzene - d	1204744	722846	1686642	1280808	6.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

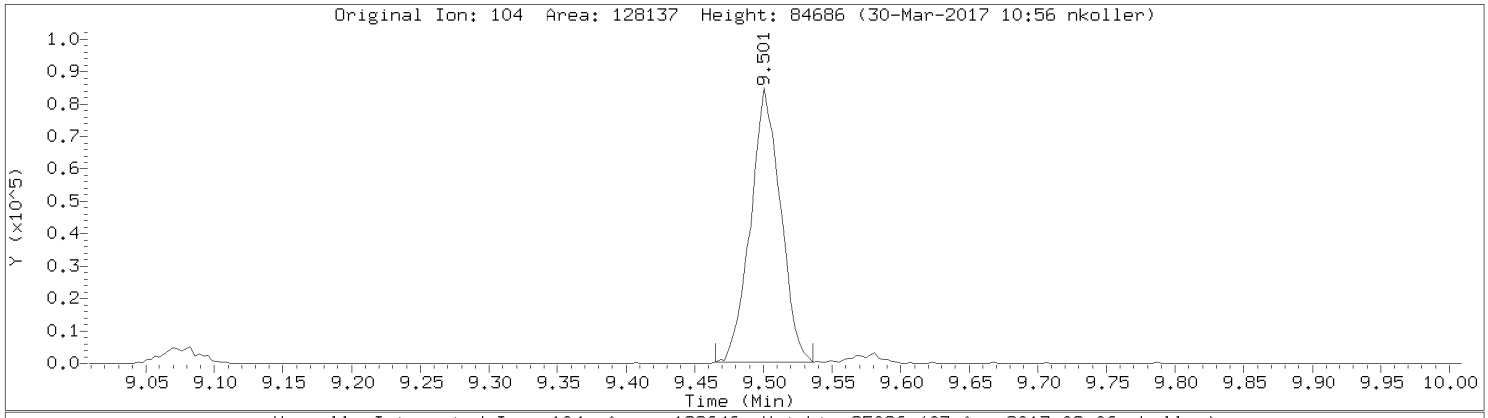
Data File: \\192.168.10.12\chem\10airB.i\033017.b\08844.D
Date : 30-MAR-2017 06:27
Client ID:
Sample Info:

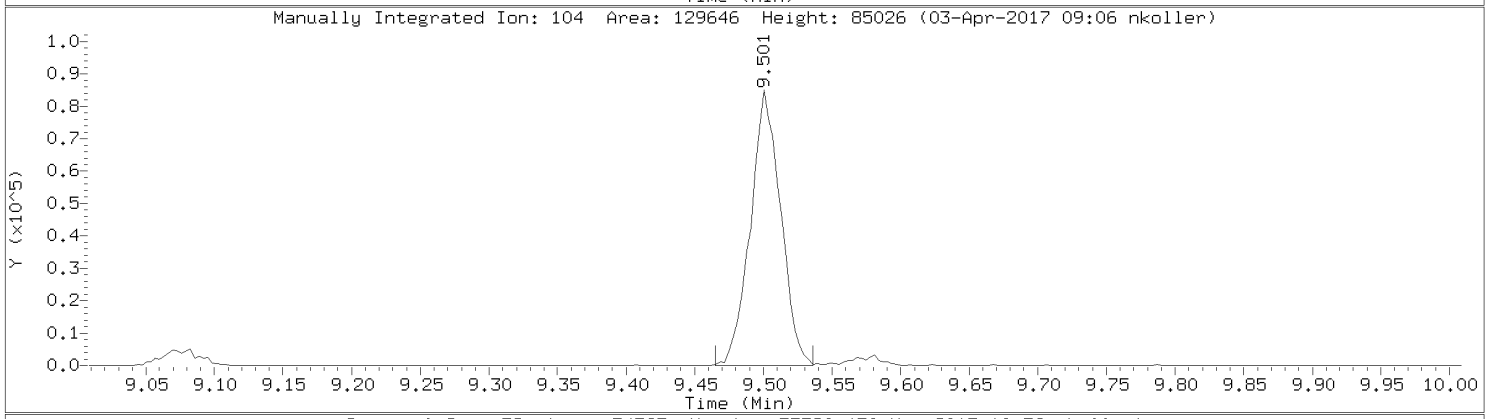
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

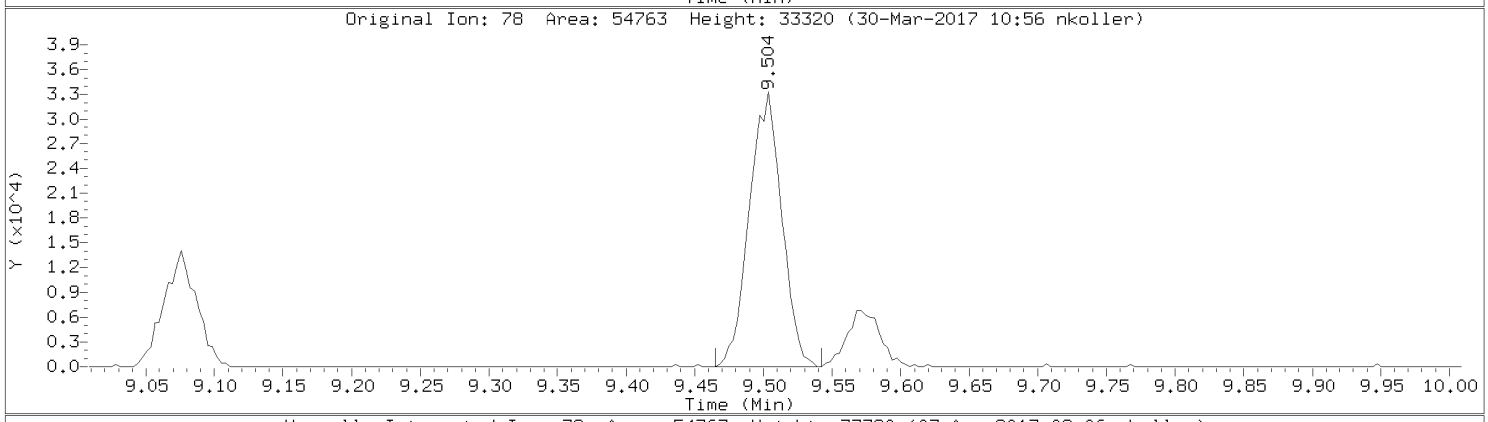


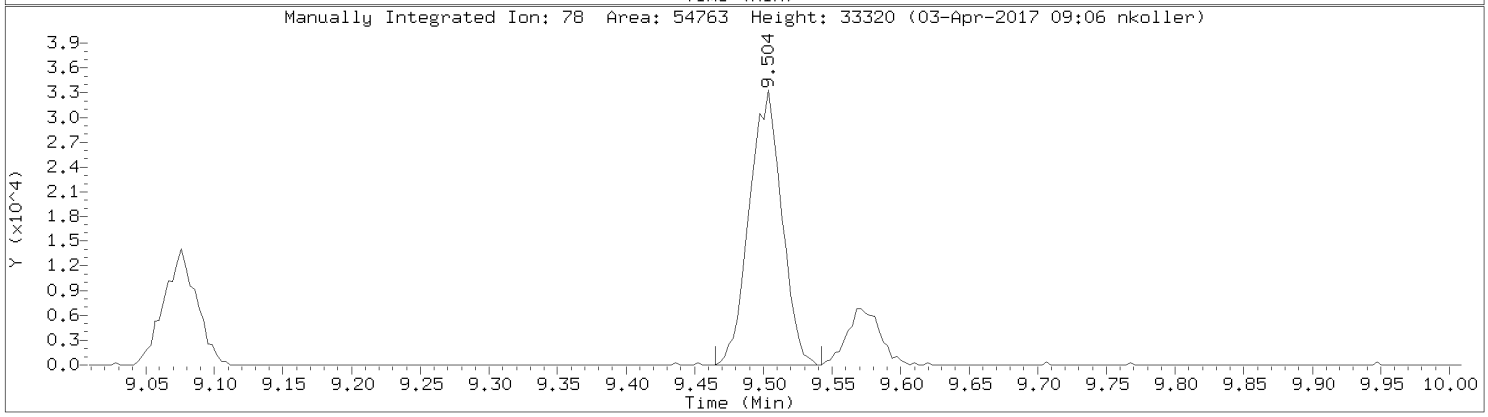
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Styrene
CAS Number: 100-42-5

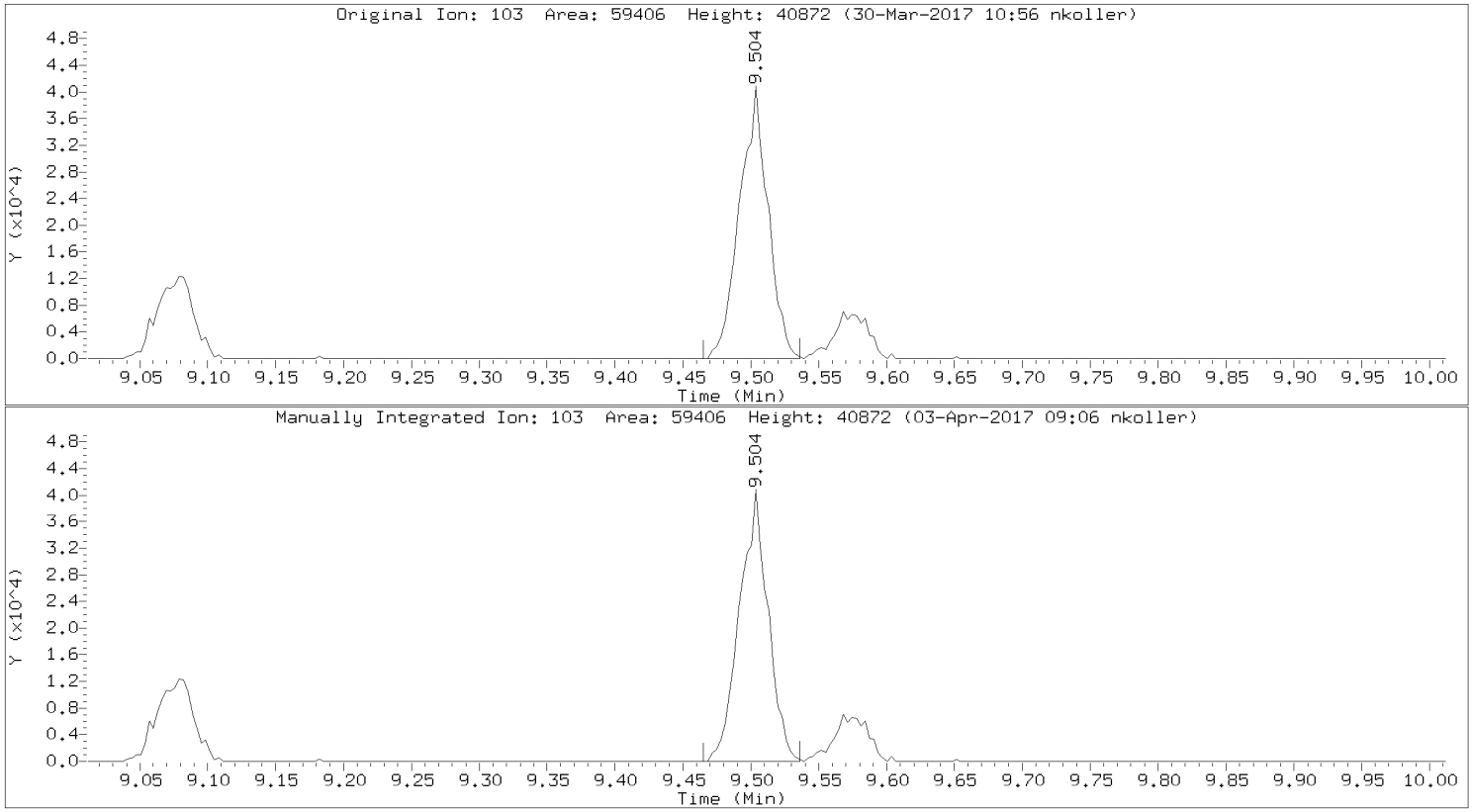






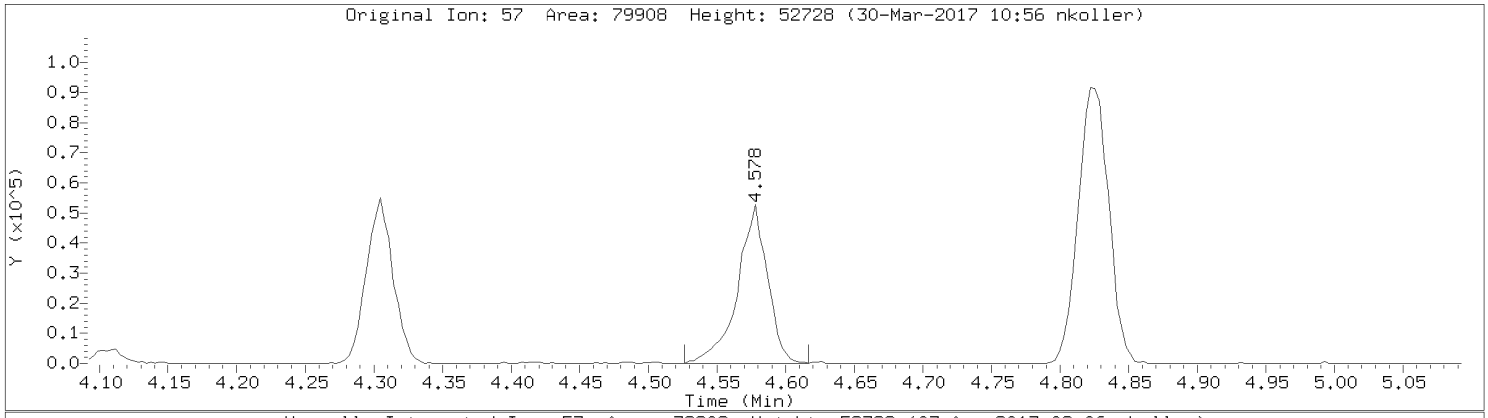


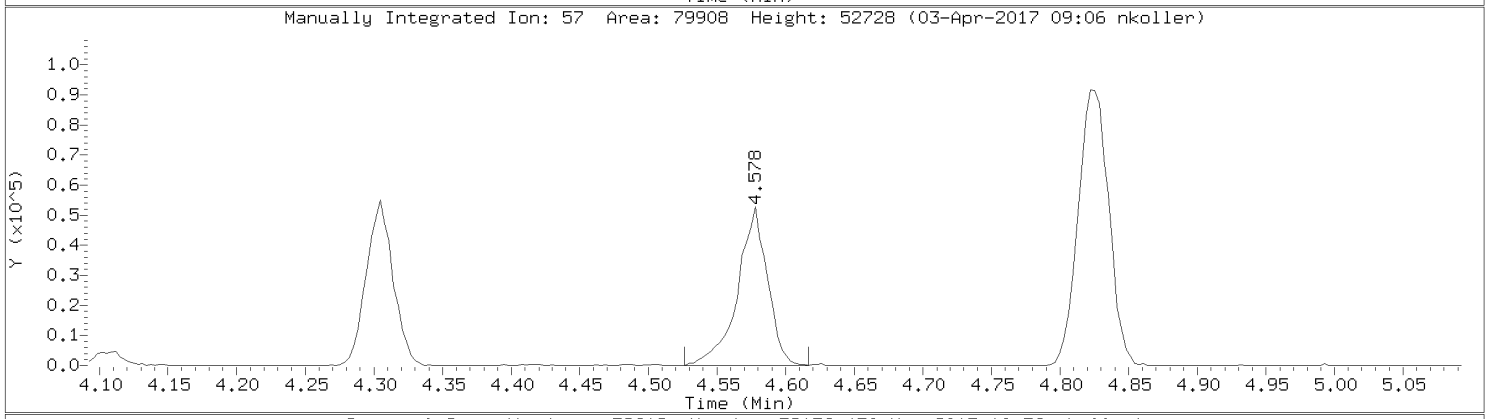
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4

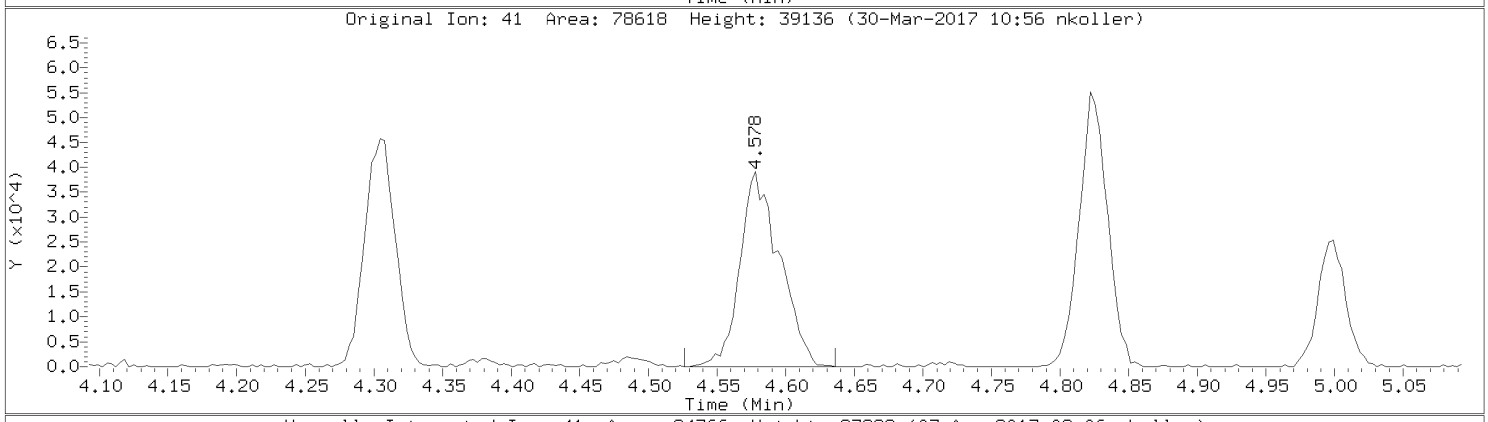


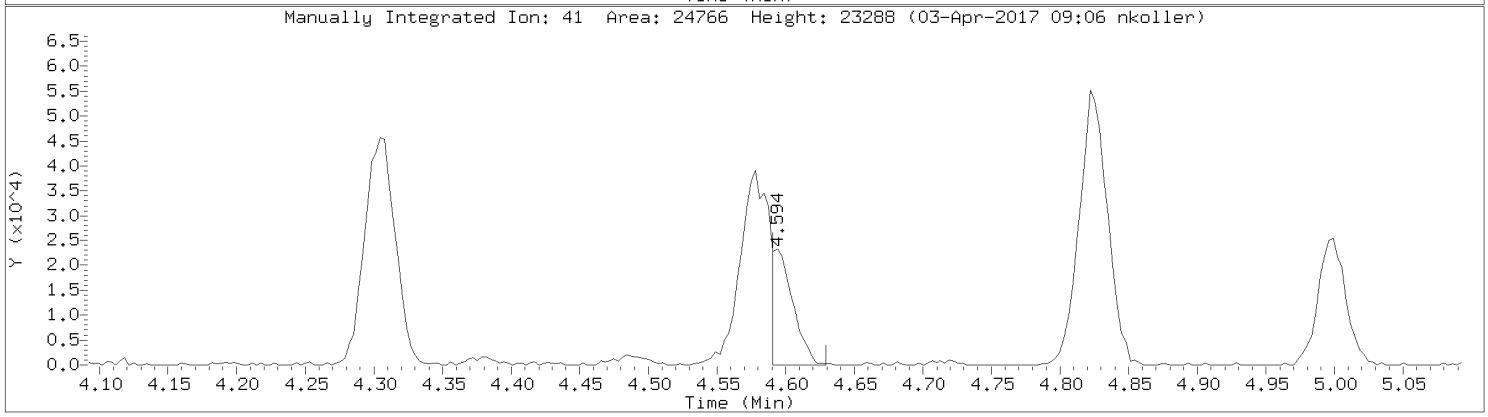
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: n-Hexane
CAS Number: 110-54-3

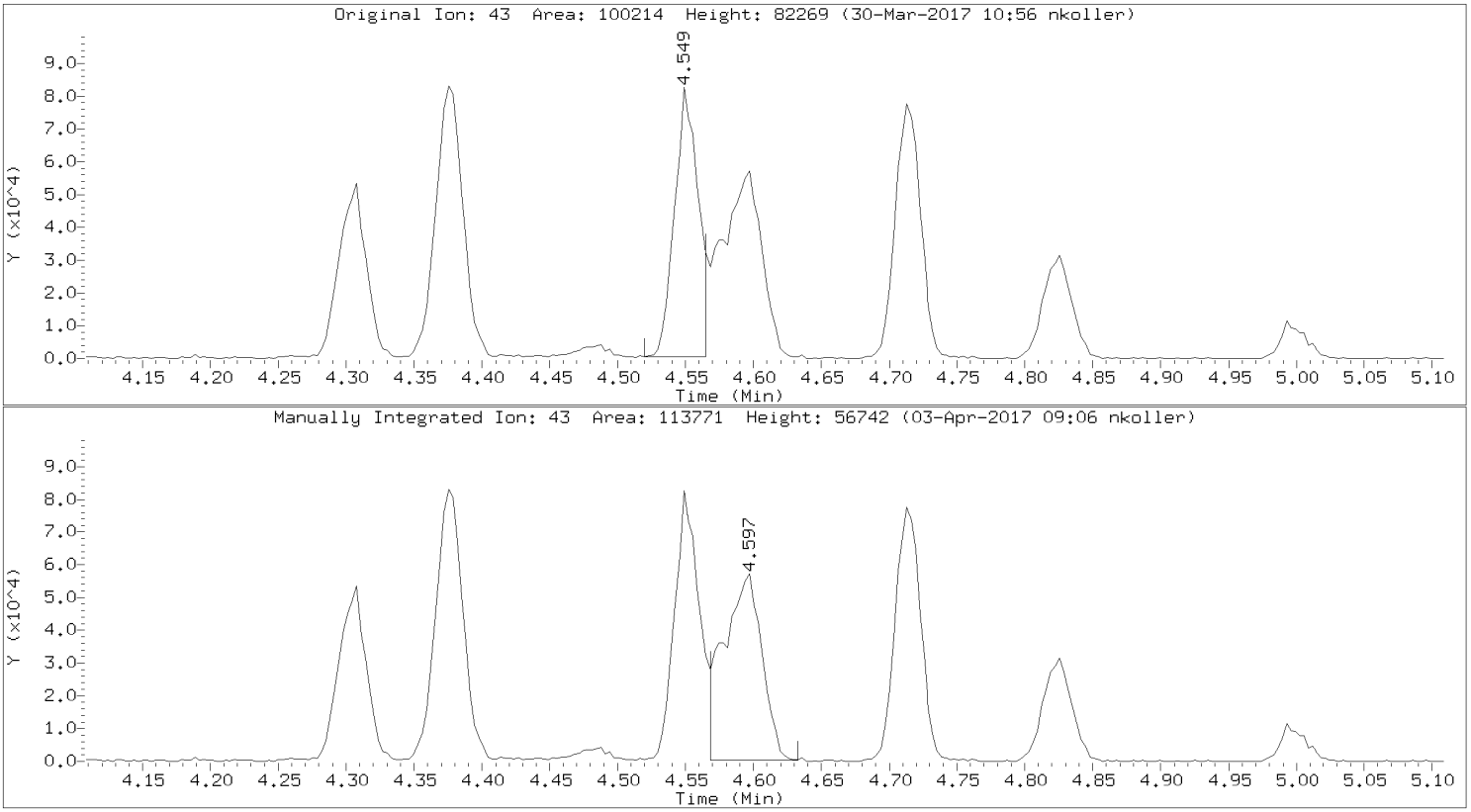






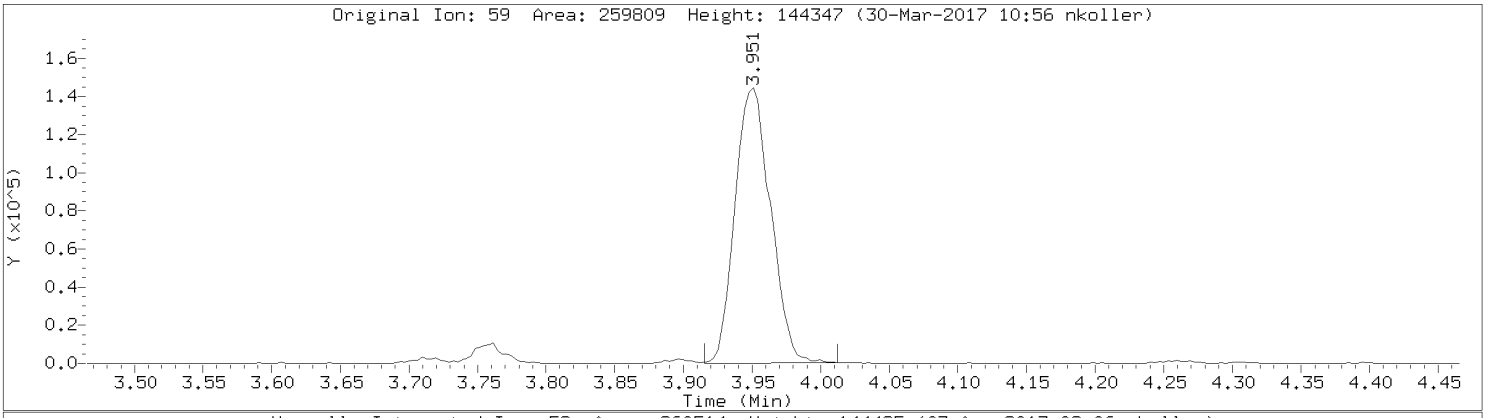


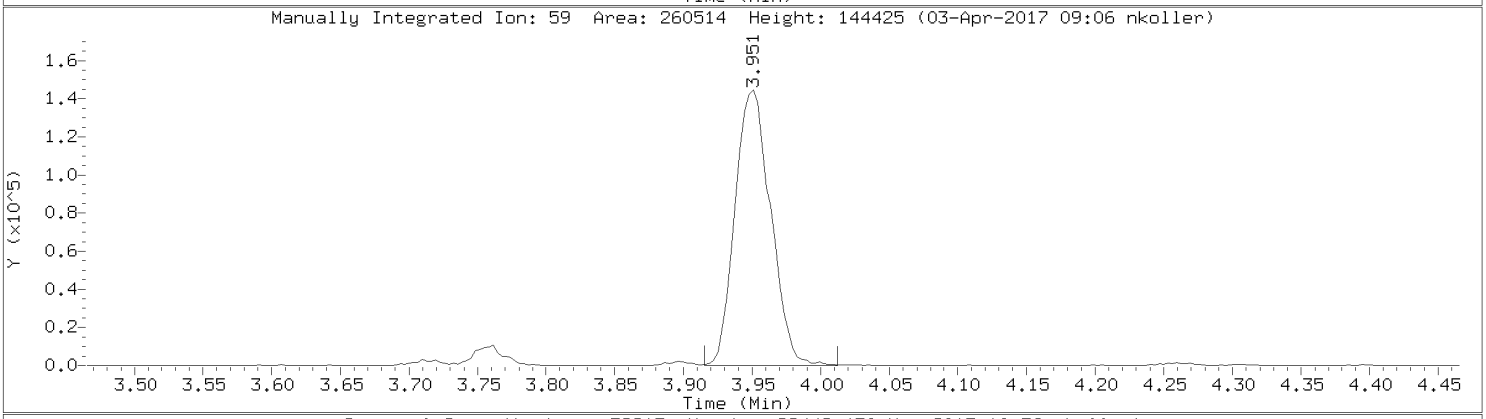
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4

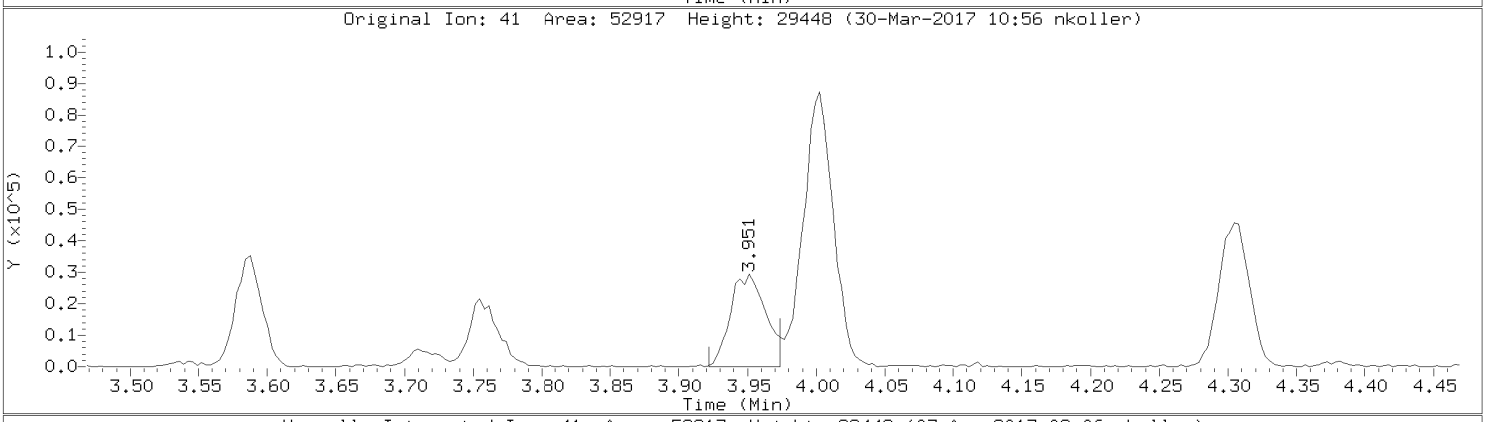


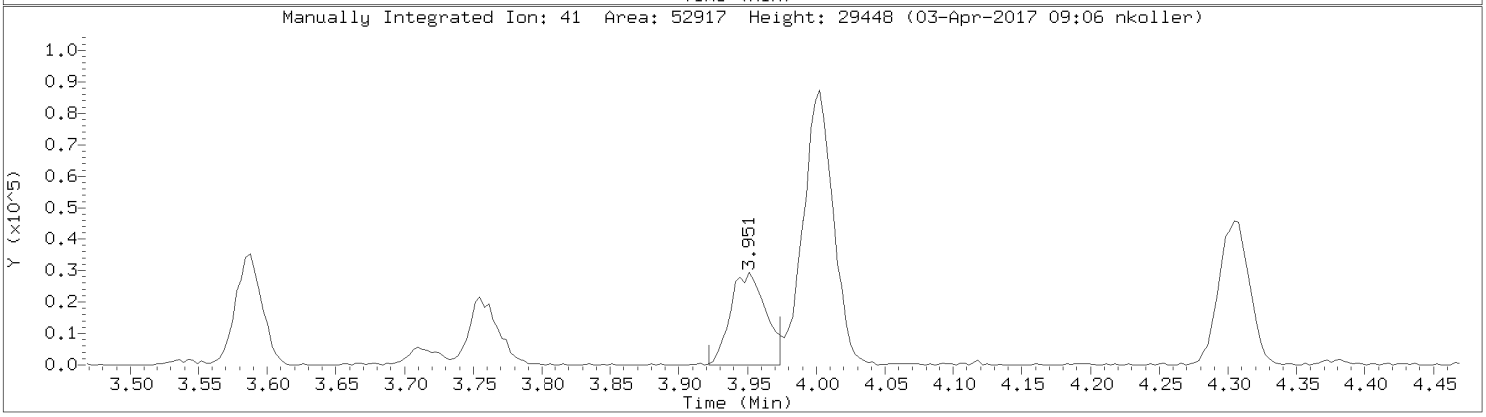
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0



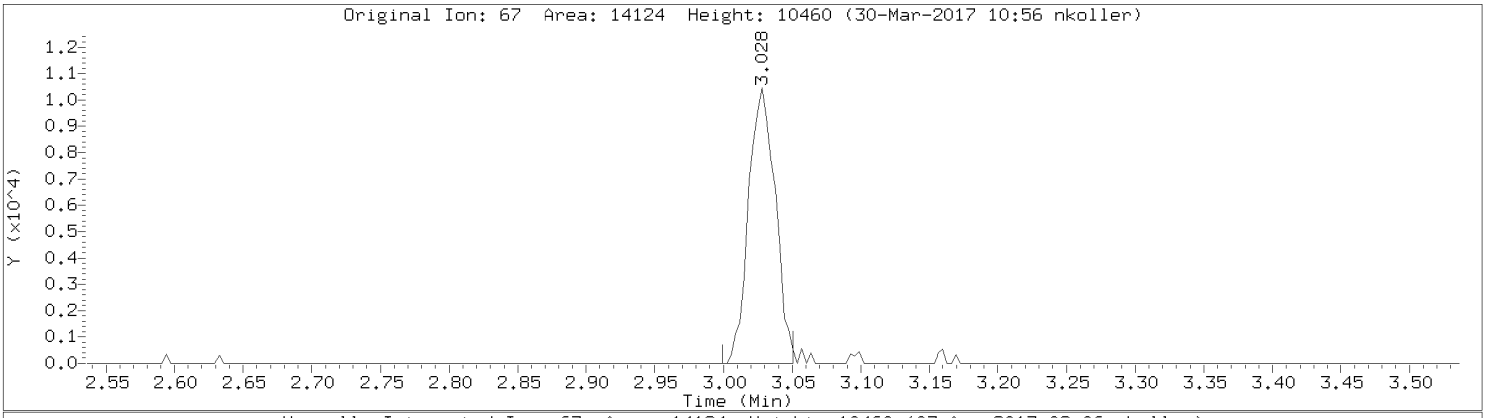


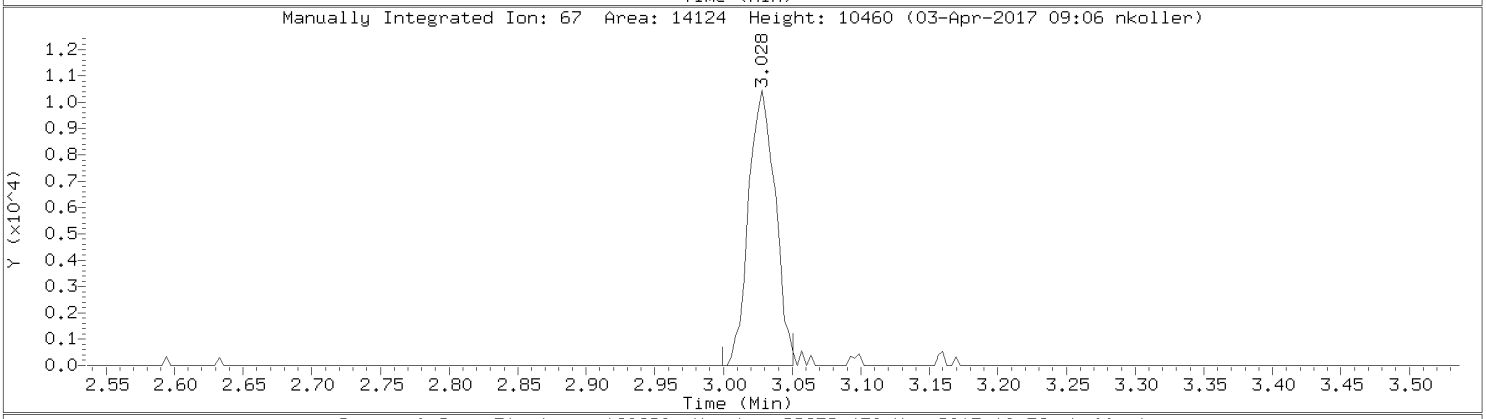


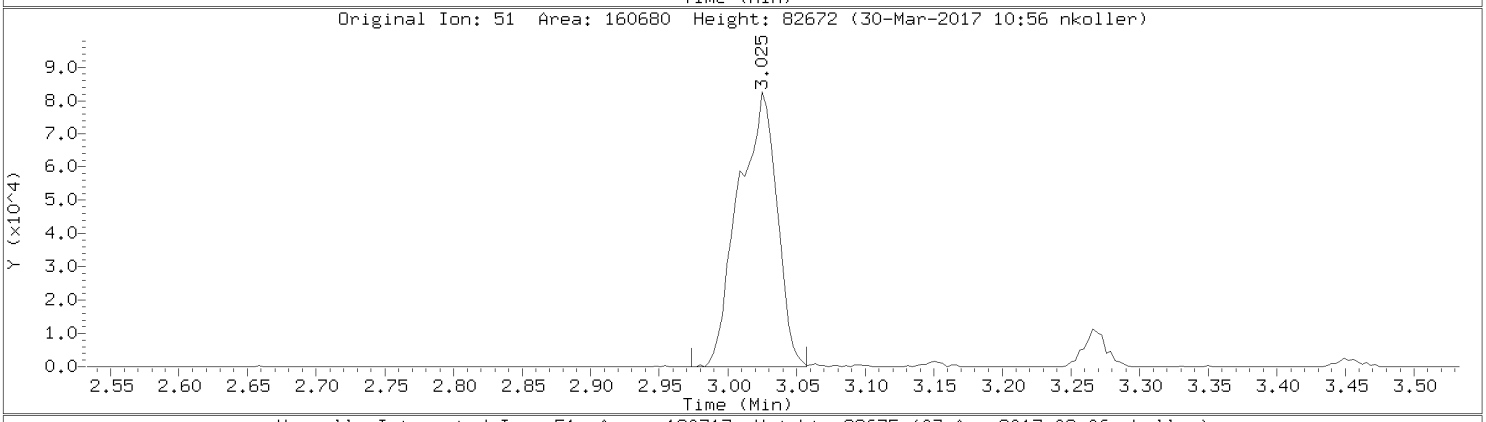


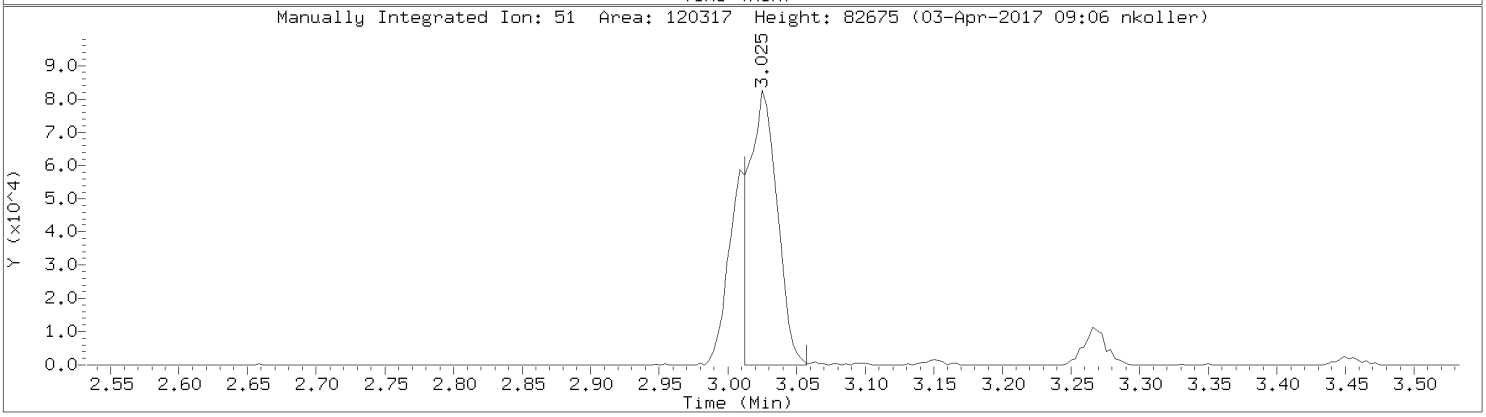
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

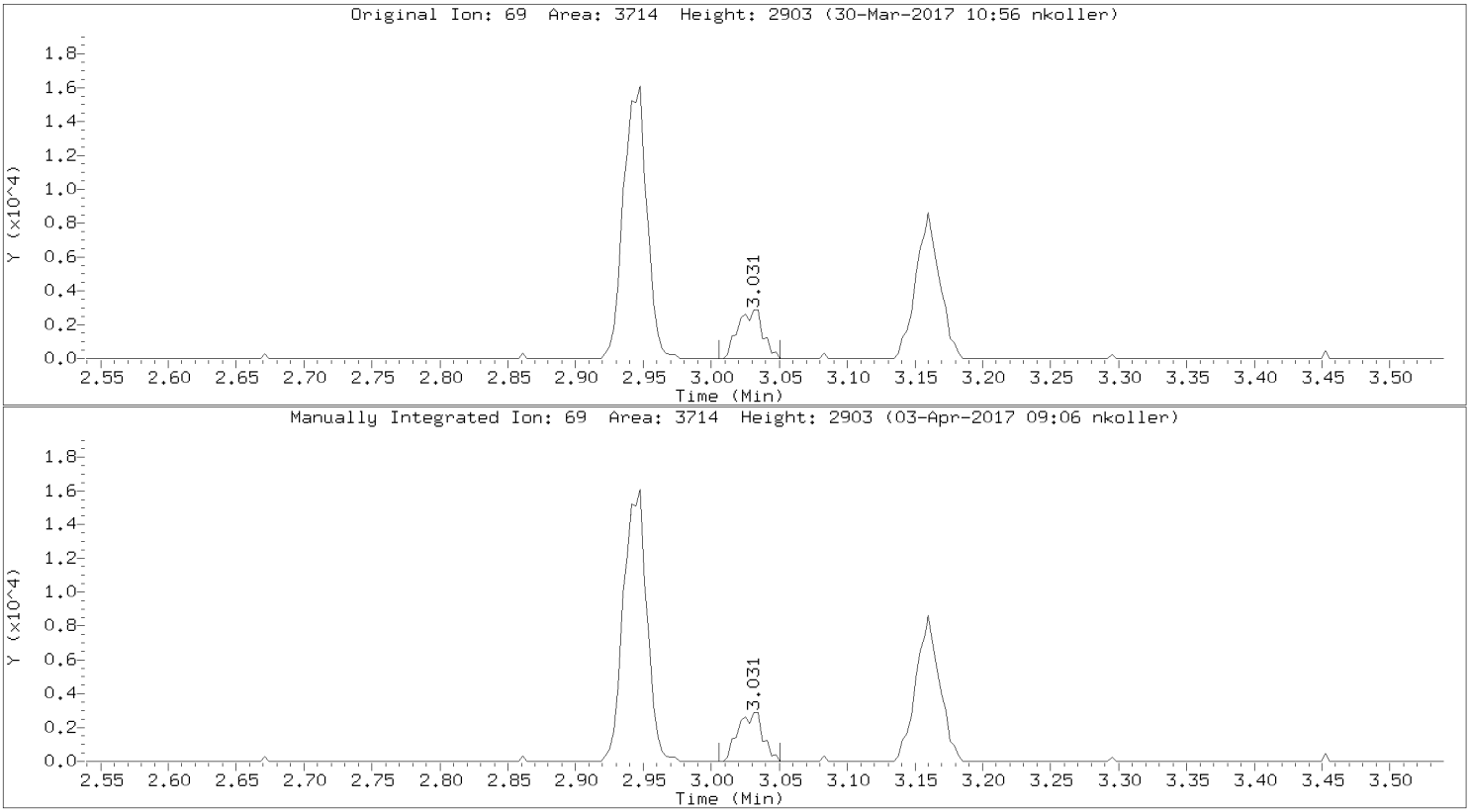






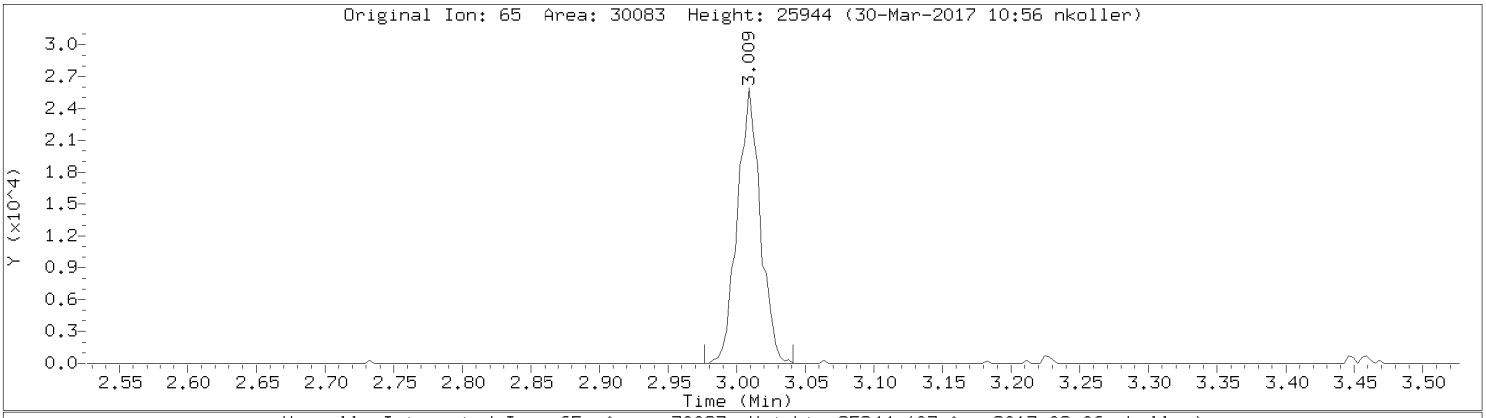


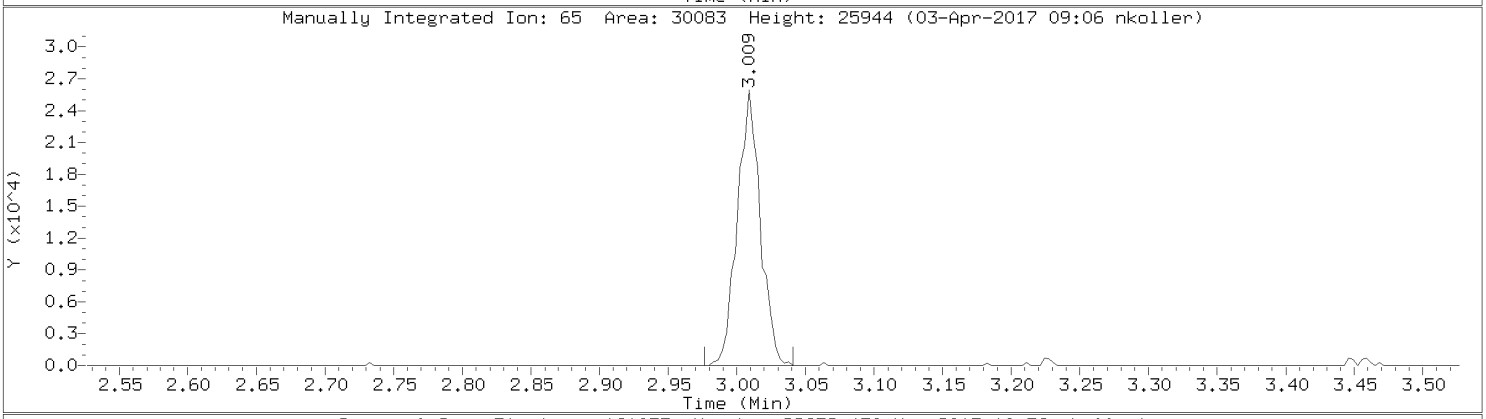
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4

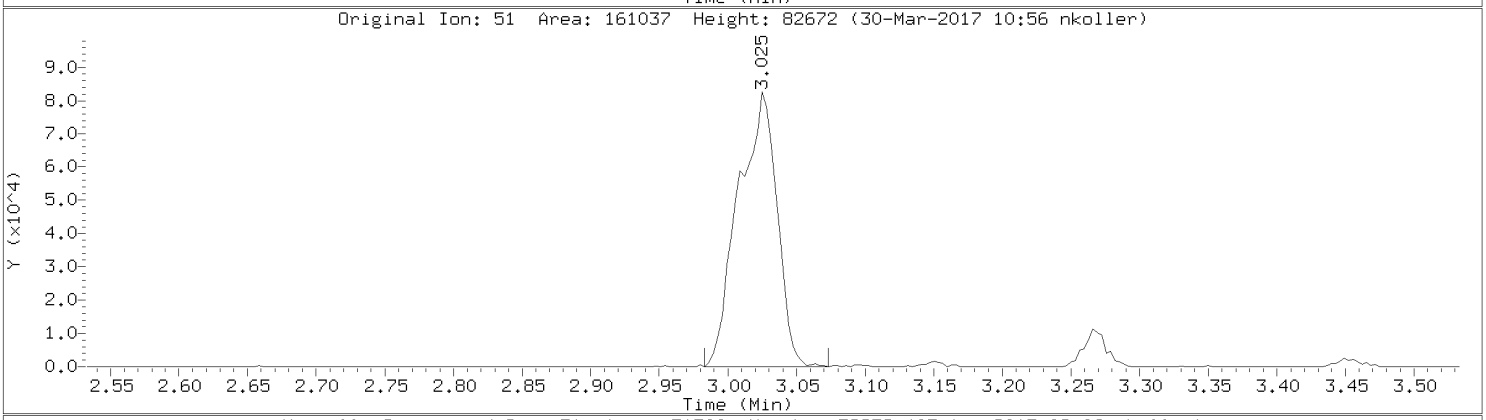


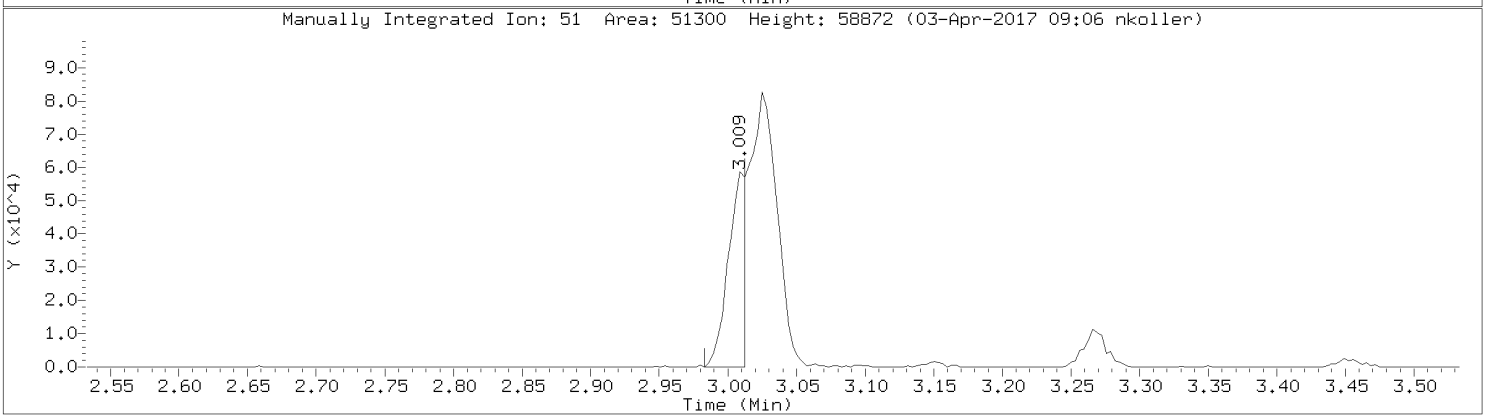
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

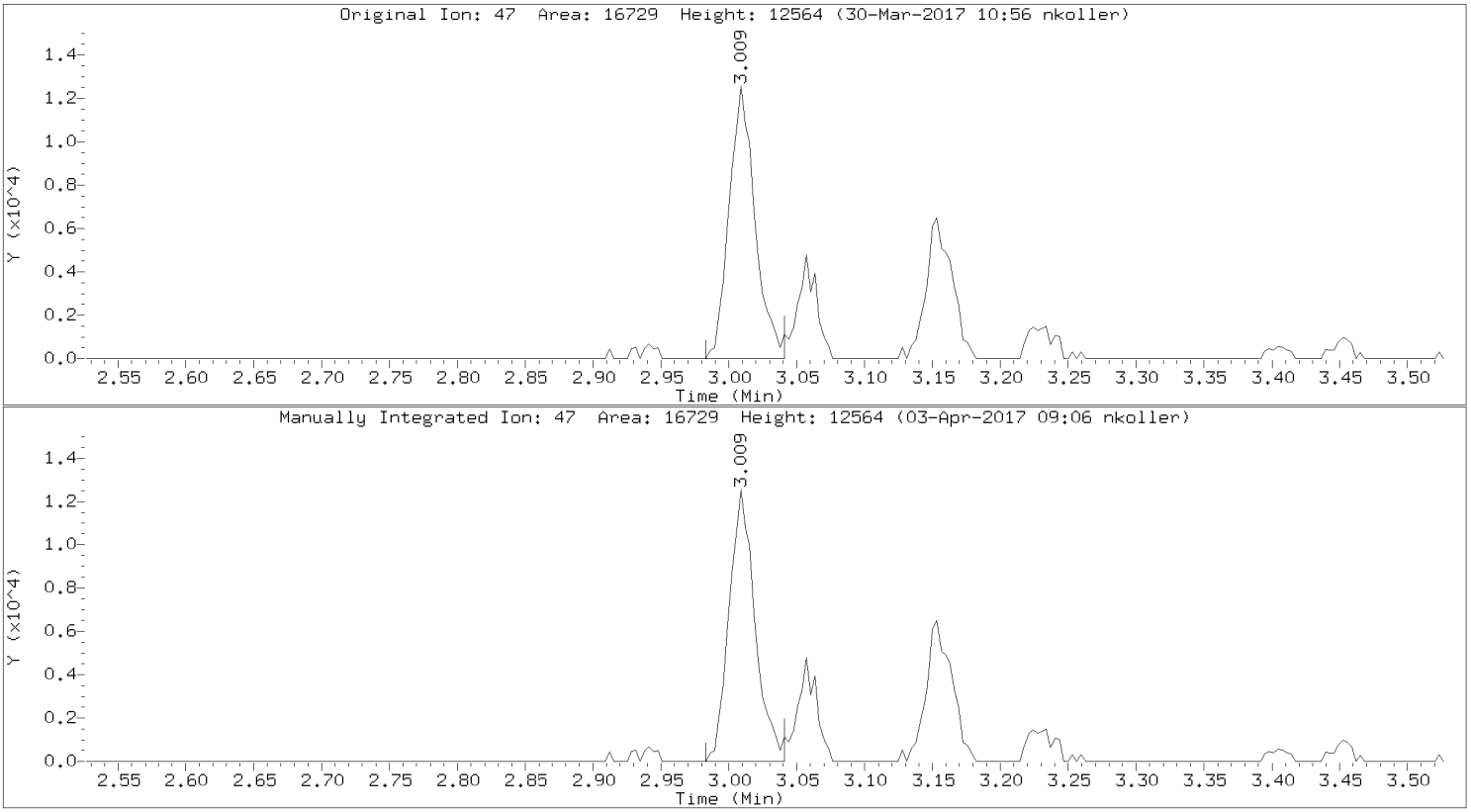






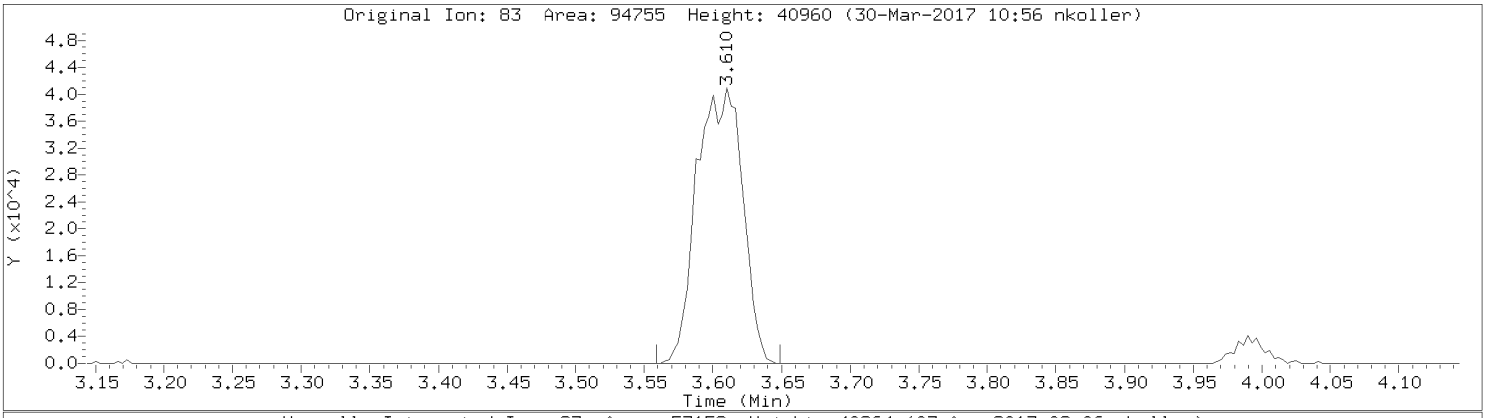


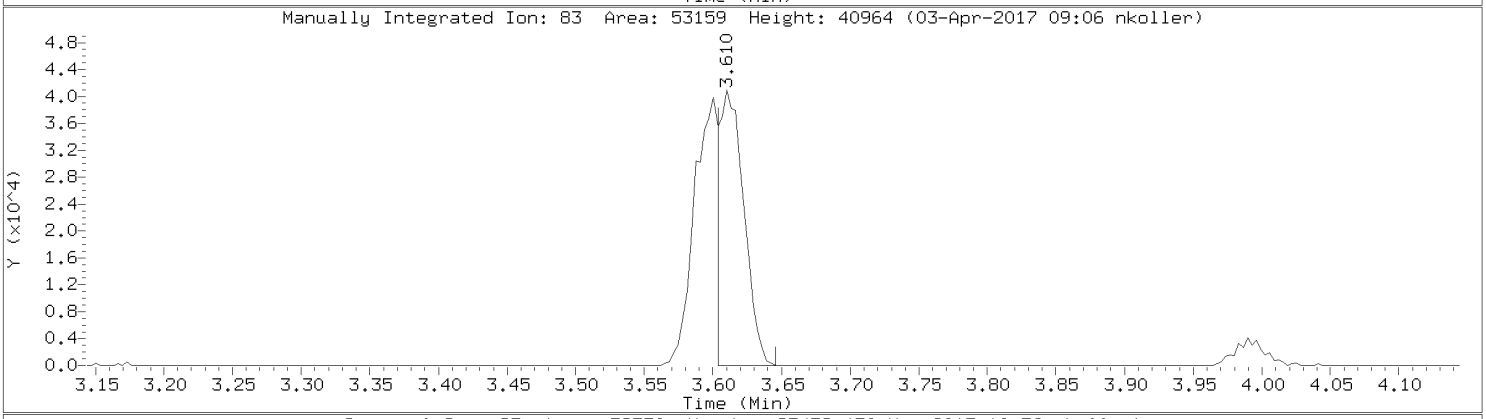
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4

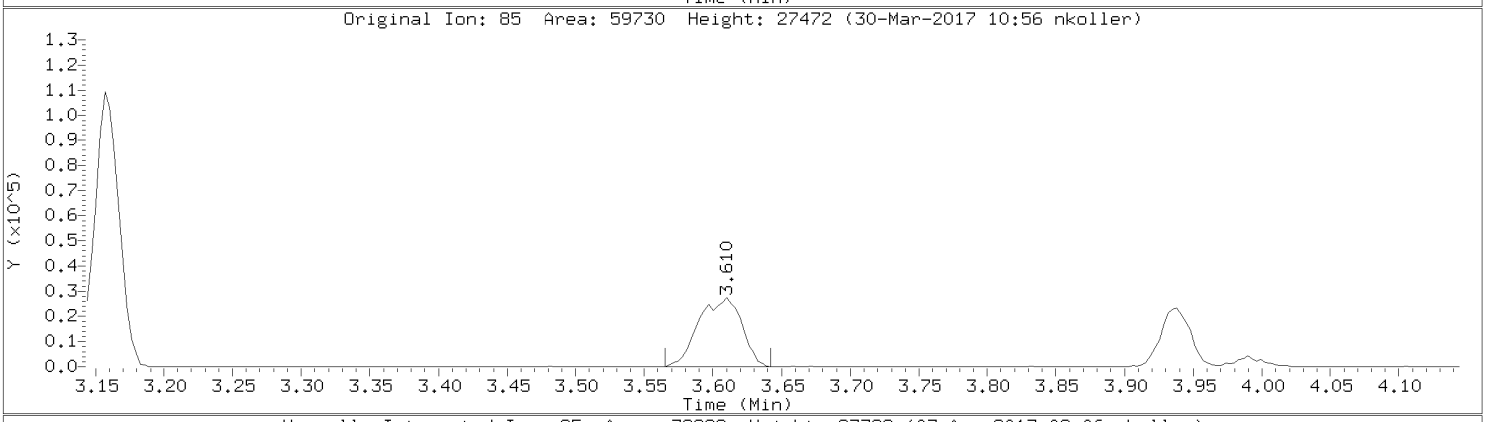


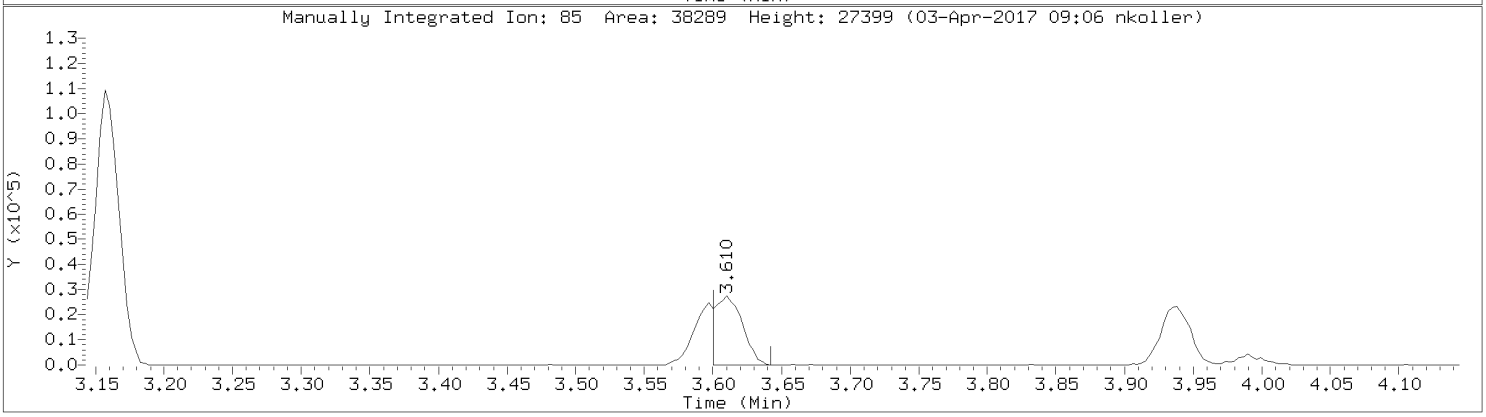
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Freon 123
CAS Number: 306-83-2

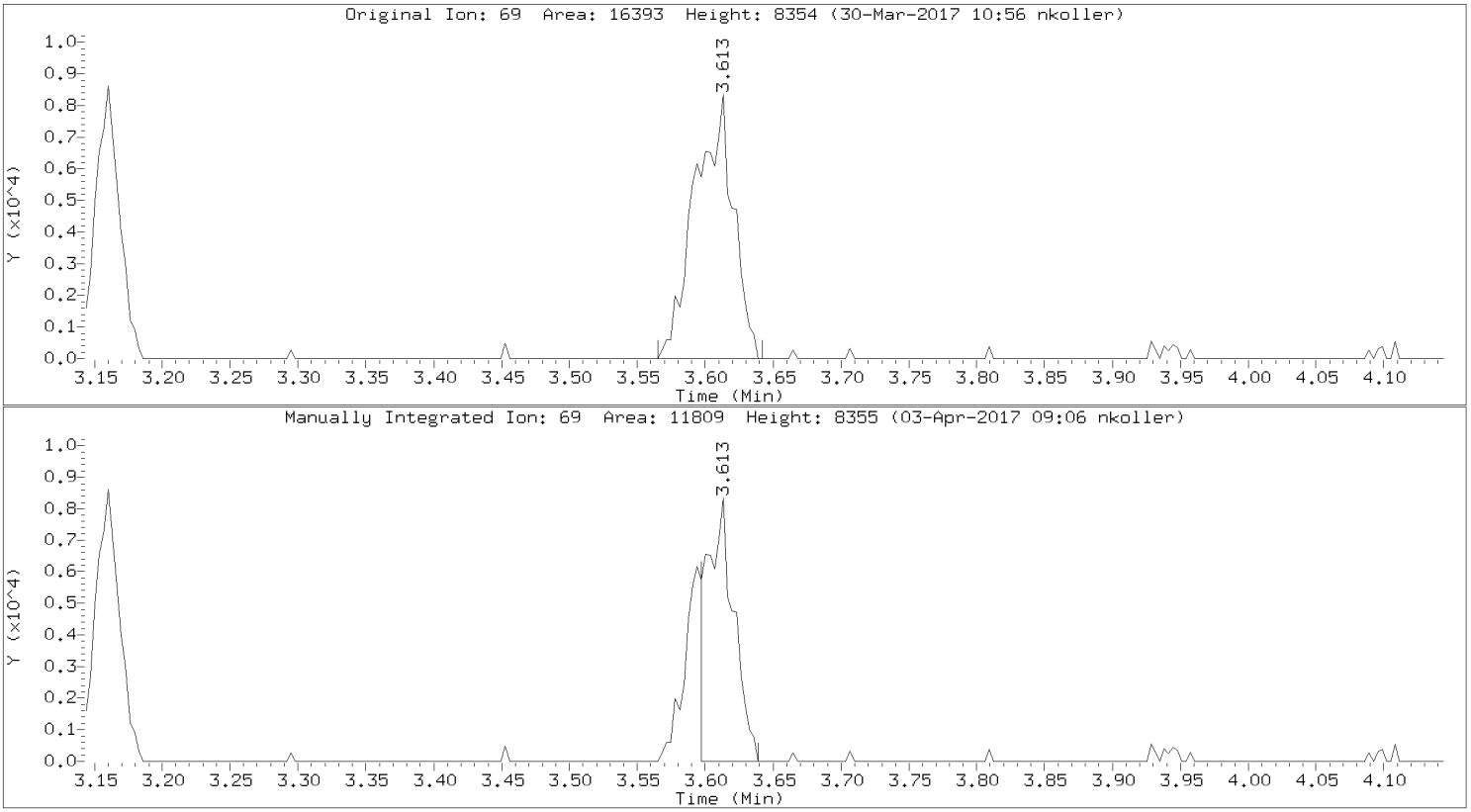








Data File: \\192.168.10.12\chem\10airB.i\033017.b/08844.D
Injection Date: 30-MAR-2017 06:27
Instrument: 10airB.i
Lab Sample ID: cal4



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08849.D
Report Date: 03-Apr-2017 09:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08849.D
Lab Smp Id: cal5
Inj Date : 30-MAR-2017 09:10
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 03-Apr-2017 09:04 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 49 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.951	2.951	(0.525)	236811	10.0000	10.1
2	1,1-Difluoroethane	65	3.025	3.025	(0.539)	339659	10.0000	11.7
3	Chlorodifluoromethane	67	3.034	3.034	(0.540)	142809	10.0000	11.6
4	Propylene	41	3.038	3.038	(0.541)	423440	10.0000	11.1
5	Dichlorodifluoromethane	85	3.070	3.070	(0.547)	1431179	10.0000	10.9
6	Chloromethane	50	3.166	3.166	(0.564)	684947	10.0000	11.9
7	Dichlorotetrafluoroethane	85	3.176	3.176	(0.566)	1390733	10.0000	11.7
8	Vinyl chloride	62	3.247	3.247	(0.578)	557629	10.0000	11.7
9	1,3-Butadiene	54	3.288	3.288	(0.586)	440082	10.0000	11.9
10	Bromomethane	94	3.423	3.423	(0.610)	436647	10.0000	11.8
11	Chloroethane	64	3.475	3.475	(0.619)	240735	10.0000	10.4
12	Ethanol	45	3.552	3.552	(0.632)	1122810	50.0000	64.4
13	Vinyl Bromide	106	3.591	3.591	(0.639)	426332	10.0000	12.1
14	Isopentane	43	3.607	3.607	(0.642)	564492	10.0000	11.5
15	Freon 123	83	3.642	3.642	(0.648)	575939	10.0000	9.86
16	Trichlorofluoromethane	101	3.681	3.681	(0.655)	1099316	10.0000	11.7
17	Acrolein	56	3.690	3.690	(0.657)	444720	25.0000	30.7
18	Acetone	43	3.729	3.729	(0.664)	3837719	50.0000	58.2
19	Isopropyl Alcohol	45	3.777	3.777	(0.673)	4690805	50.0000	64.5
20	1,1-Dichloroethene	61	3.919	3.919	(0.698)	788206	10.0000	12.0
21	Acrylonitrile	53	3.935	3.935	(0.701)	1027408	25.0000	32.2
22	Freon 113	101	3.957	3.957	(0.705)	841091	10.0000	11.7
23	Methyl Acetate	43	3.967	3.967	(0.706)	1248417	10.0000	11.7

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08849.D
Report Date: 03-Apr-2017 09:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.964	3.964	(0.706)	2714624	25.0000	30.5
	25 Methylene chloride	49	4.012	4.012	(0.714)	2885680	50.0000	57.0
	26 Allyl Chloride	76	4.025	4.025	(0.717)	304099	25.0000	27.2
	27 Carbon Disulfide	76	4.134	4.134	(0.736)	982032	10.0000	10.6
	28 trans-1,2-dichloroethene	96	4.282	4.282	(0.762)	412020	10.0000	12.2
	29 Methyl Tert Butyl Ether	73	4.308	4.308	(0.767)	2757275	25.0000	29.1
	30 Vinyl Acetate	43	4.394	4.394	(0.782)	1281867	10.0000	12.2
	31 1,1-Dichloroethane	63	4.417	4.417	(0.786)	839820	10.0000	11.7
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	680524	10.0000	9.78
	33 Methyl Ethyl Ketone	72	4.562	4.562	(0.812)	207746	10.0000	11.4
	34 n-Hexane	57	4.591	4.591	(0.817)	926821	10.0000	12.5
	35 Di-isopropyl Ether	45	4.610	4.610	(0.821)	1989398	10.0000	13.4
	36 Ethyl Acetate	43	4.722	4.722	(0.841)	1326056	10.0000	13.8
	37 cis-1,2-Dichloroethene	96	4.732	4.732	(0.843)	553755	10.0000	14.2
	38 Ethyl Tert-Butyl Ether	59	4.835	4.835	(0.861)	4659689	25.0000	31.0
	39 Chloroform	83	4.845	4.845	(0.863)	1027494	10.0000	12.8
	40 Tetrahydrofuran	42	4.999	4.999	(0.890)	680485	10.0000	12.1
	41 1,1,1-Trichloroethane	97	5.237	5.237	(0.932)	1194964	10.0000	12.6
	42 1,2-Dichloroethane	62	5.243	5.243	(0.934)	914104	10.0000	11.8
	43 Benzene	78	5.472	5.472	(0.974)	1629428	10.0000	11.9
	44 Carbon tetrachloride	117	5.491	5.491	(0.978)	1155561	10.0000	13.4
	45 Cyclohexane	56	5.494	5.494	(0.978)	932772	10.0000	11.9
	46 Tert Amyl Methyl Ether	73	5.610	5.610	(0.999)	1592959	10.0000	11.0
*	47 1,4-Difluorobenzene	114	5.616	5.616	(1.000)	1822367	10.0000	
	48 2,2,4-Trimethylpentane	57	5.774	5.774	(1.028)	7200844	25.0000	30.2
	49 Heptane	43	5.896	5.896	(1.050)	1085738	10.0000	11.9
	50 1,2-Dichloropropane	63	5.970	5.970	(1.063)	657689	10.0000	12.1
	51 Trichloroethene	130	5.992	5.992	(1.067)	843499	10.0000	12.1
	52 Methyl methacrylate	69	6.050	6.050	(1.077)	575763	10.0000	12.6
	53 1,4-Dioxane	88	6.070	6.070	(1.081)	441191	10.0000	13.0
	54 Bromodichloromethane	83	6.089	6.089	(1.084)	1176465	10.0000	11.2
	55 Methylcyclohexane	98	6.436	6.436	(1.146)	471911	10.0000	12.2
	56 Methyl Isobutyl Ketone	43	6.533	6.533	(1.163)	3697833	25.0000	31.1
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.173)	939448	10.0000	10.7
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.244)	849630	10.0000	10.4
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.260)	1594256	10.0000	10.4
	60 1,1,2-Trichloroethane	97	7.147	7.147	(1.272)	673336	10.0000	12.2
	61 Toluene	91	7.153	7.153	(1.274)	1982880	10.0000	11.9
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.853)	3427725	25.0000	31.2
	63 n-Octane	43	7.584	7.584	(0.877)	1444188	10.0000	11.5
	64 Dibromochloromethane	129	7.680	7.680	(0.888)	1271324	10.0000	10.4
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	1130250	10.0000	12.0
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	1053080	10.0000	10.7
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1204744	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	1655373	10.0000	11.4
	69 Ethyl Benzene	91	8.938	8.938	(1.034)	2620458	10.0000	11.6
	70 m&p-Xylene	91	9.082	9.082	(1.051)	3939623	20.0000	23.1
	71 n-Nonane	43	9.471	9.471	(1.096)	1321089	10.0000	11.9
	72 Bromoform	173	9.481	9.481	(1.097)	995118	10.0000	10.4
	73 Styrene	104	9.507	9.507	(1.100)	1526844	10.0000	12.0
	74 o-Xylene	91	9.581	9.581	(1.108)	1997913	10.0000	11.4
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	1163911	10.0000	12.5
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	2748613	10.0000	11.5
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	3132923	10.0000	12.6

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08849.D
Report Date: 03-Apr-2017 09:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	2621885	10.0000	12.5
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	2228942	10.0000	12.2
80	n-Decane	57	11.378	11.378	(2.026)	1404543	10.0000	10.6
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2290715	10.0000	11.9
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.331)	2033869	10.0000	12.3
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	1294688	10.0000	10.4
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	2908309	10.0000	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	658366	10.0000	12.0(M)
86	Benzyl Chloride	91	11.867	11.867	(1.373)	1254661	10.0000	10.2(M)
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	1284979	10.0000	10.9
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	2492351	10.0000	12.6
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	1986205	10.0000	12.4
90	1,2-Dichlorobenzene	146	12.282	12.282	(1.421)	1213886	10.0000	10.4
91	N-Butylbenzene	91	12.458	12.458	(1.441)	1955519	10.0000	10.3
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	397742	10.0000	9.96
93	1,2,4-Trichlorobenzene	180	14.040	14.040	(1.624)	306602	10.0000	10.0
94	Naphthalene	128	14.172	14.172	(1.639)	845148	10.0000	10.2
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	396750	10.0000	10.6

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08849.D
Report Date: 03-Apr-2017 09:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08849.D
Lab Smp Id: cal5
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info:

Calibration Date: 30-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

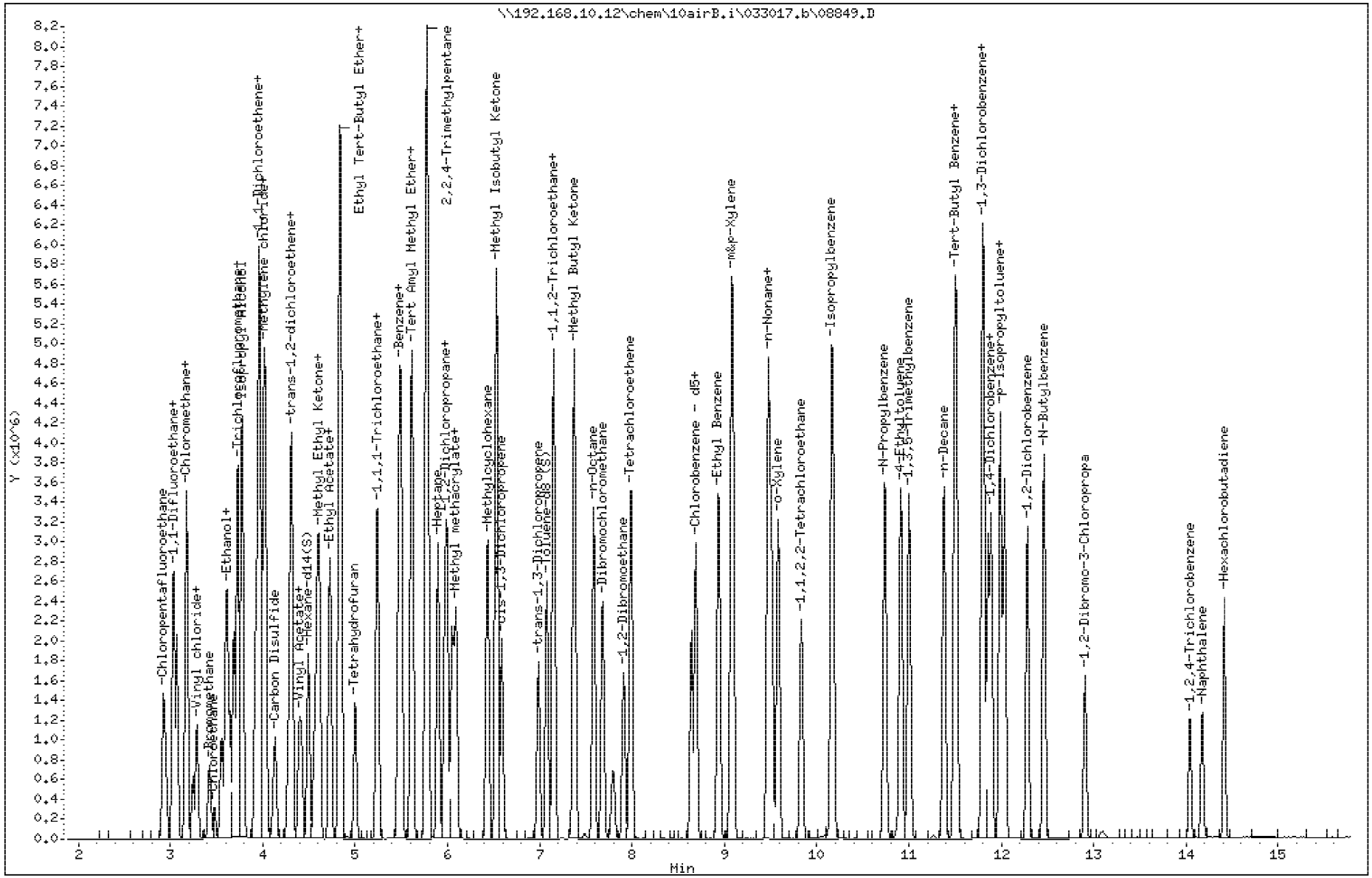
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	1822367	-0.00
67 Chlorobenzene - d	1204744	722846	1686642	1204744	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.62	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

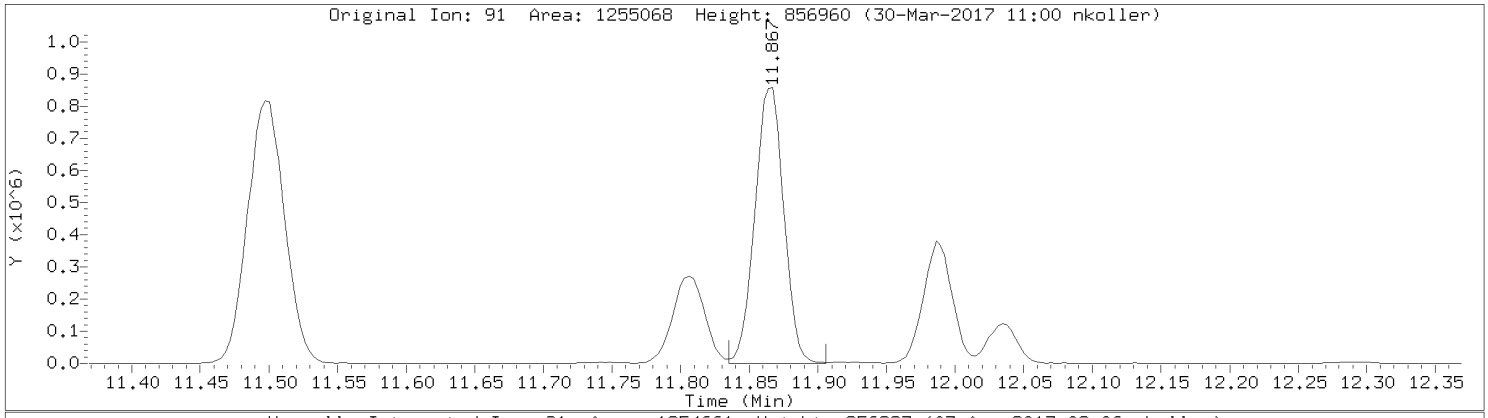
Data File: \\192.168.10.12\chem\10airB.i\033017.b\08849.D
Date : 30-MAR-2017 09:10
Client ID:
Sample Info:

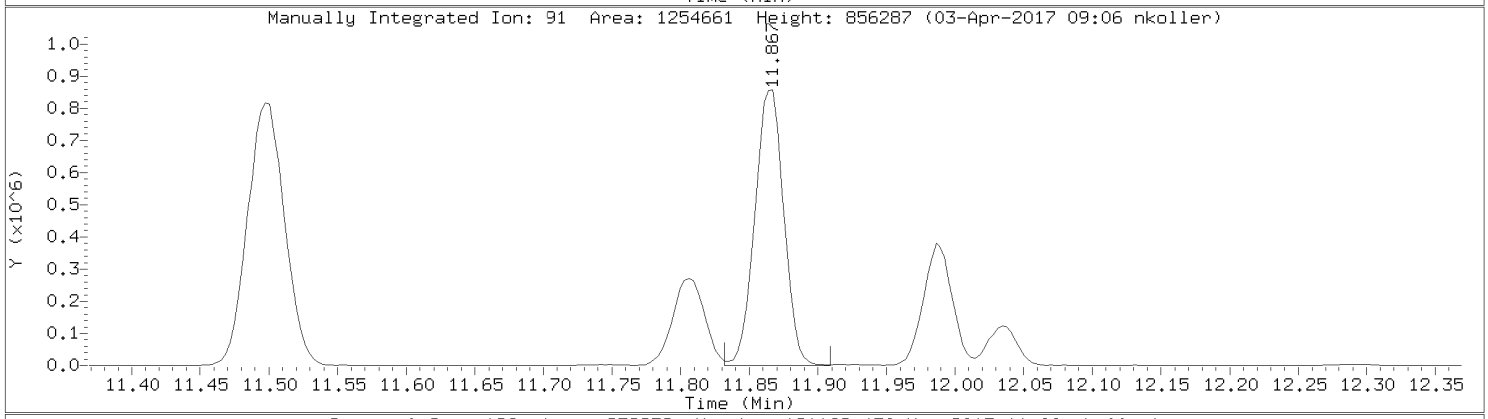
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

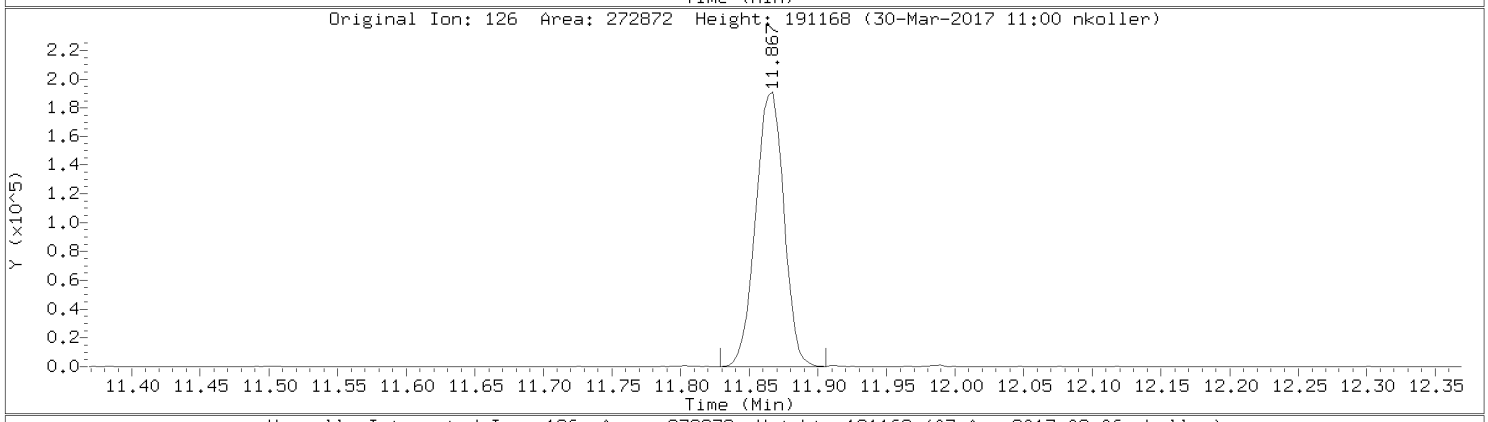


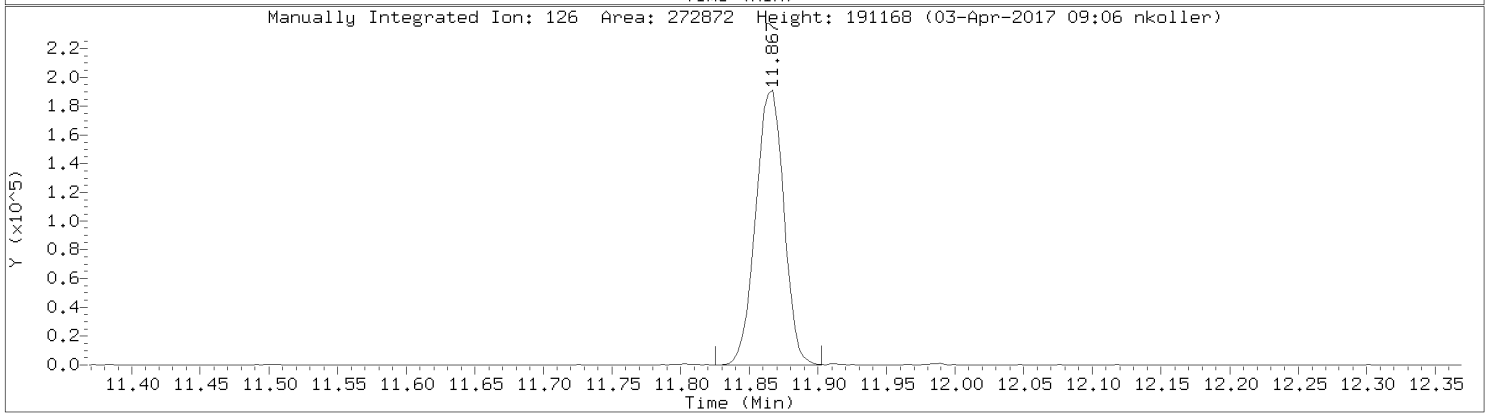
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08849.D
Injection Date: 30-MAR-2017 09:10
Instrument: 10airB.i
Lab Sample ID: cal5

Compound: Benzyl Chloride
CAS Number: 100-44-7



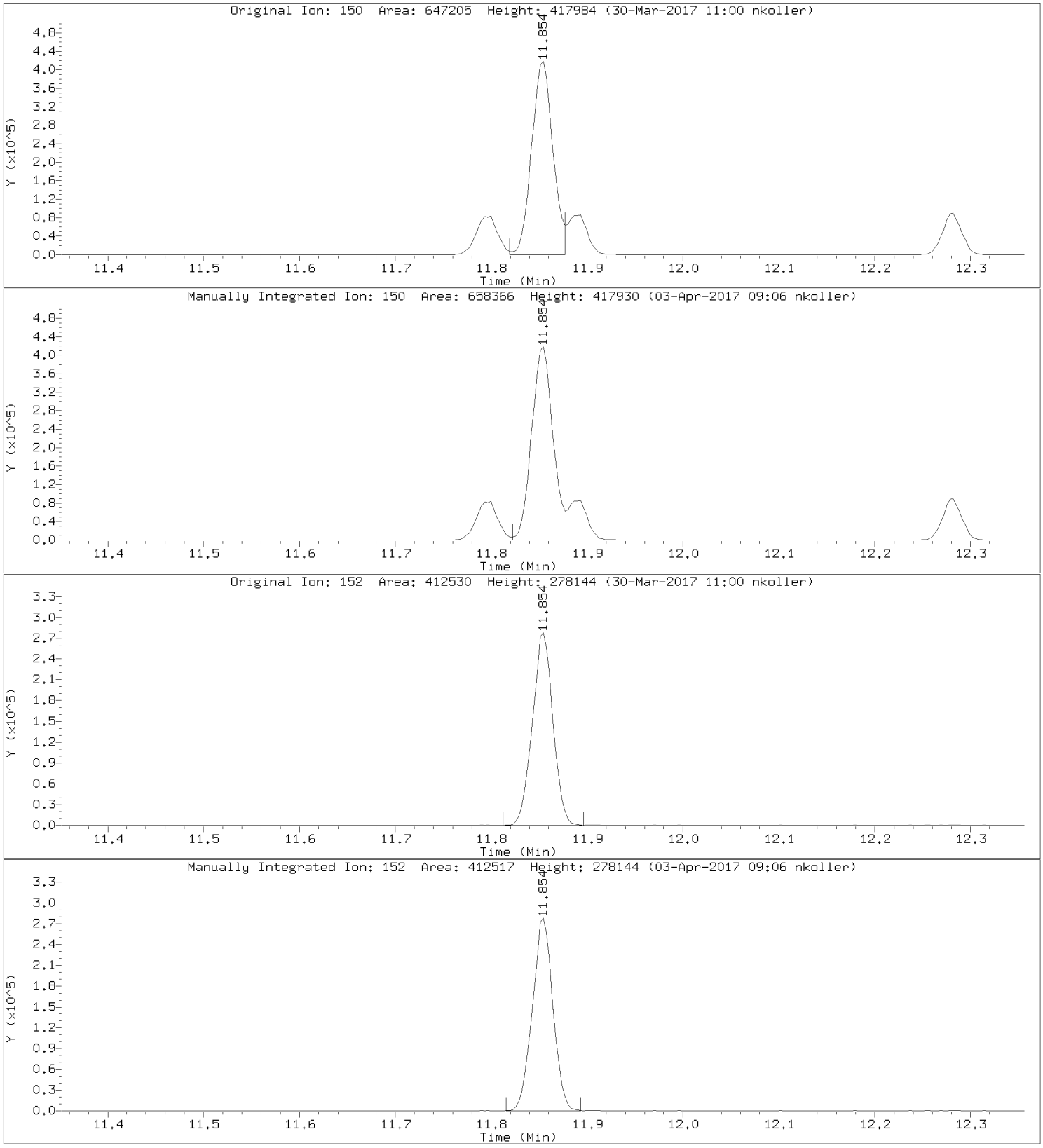






Data File: \\192.168.10.12\chem\10airB.i\033017.b/08849.D
Injection Date: 30-MAR-2017 09:10
Instrument: 10airB.i
Lab Sample ID: cal5

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08850.D
Report Date: 03-Apr-2017 09:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08850.D
Lab Smp Id: cal6
Inj Date : 30-MAR-2017 09:39
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 03-Apr-2017 09:04 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 50 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.941	2.951	(0.523)	306716	20.0000	17.1
2	1,1-Difluoroethane	65	3.021	3.025	(0.538)	631950	20.0000	21.1
3	Chlorodifluoromethane	67	3.025	3.034	(0.538)	267352	20.0000	21.1
4	Propylene	41	3.028	3.038	(0.539)	788268	20.0000	20.1
5	Dichlorodifluoromethane	85	3.060	3.070	(0.545)	2667457	20.0000	19.7
6	Chloromethane	50	3.160	3.166	(0.562)	1278436	20.0000	21.6
7	Dichlorotetrafluoroethane	85	3.173	3.176	(0.565)	2534433	20.0000	20.6
8	Vinyl chloride	62	3.240	3.247	(0.577)	1068310	20.0000	21.6
9	1,3-Butadiene	54	3.285	3.288	(0.585)	837802	20.0000	21.9
10	Bromomethane	94	3.423	3.423	(0.609)	810822	20.0000	21.2
11	Chloroethane	64	3.475	3.475	(0.618)	456874	20.0000	19.1
12	Ethanol	45	3.555	3.552	(0.633)	2006501	100.000	111
13	Vinyl Bromide	106	3.591	3.591	(0.639)	784939	20.0000	21.6
14	Isopentane	43	3.607	3.607	(0.642)	1041901	20.0000	20.5
15	Freon 123	83	3.642	3.642	(0.648)	1017441	20.0000	16.8(H)
16	Trichlorofluoromethane	101	3.681	3.681	(0.655)	2049288	20.0000	21.2(H)
17	Acrolein	56	3.690	3.690	(0.657)	833583	50.0000	55.6
18	Acetone	43	3.729	3.729	(0.664)	6847604	100.000	100
19	Isopropyl Alcohol	45	3.780	3.777	(0.673)	7928924	100.000	105
20	1,1-Dichloroethene	61	3.918	3.919	(0.697)	1474238	20.0000	21.7
21	Acrylonitrile	53	3.938	3.935	(0.701)	1853385	50.0000	56.2
22	Freon 113	101	3.957	3.957	(0.704)	1511949	20.0000	20.3
23	Methyl Acetate	43	3.970	3.967	(0.706)	2189329	20.0000	19.8

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08850.D
Report Date: 03-Apr-2017 09:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.970	3.964	(0.706)	4667345	50.0000	50.8
	25 Methylene chloride	49	4.012	4.012	(0.714)	5129056	100.000	98.0
	26 Allyl Chloride	76	4.028	4.025	(0.717)	554530	50.0000	48.0
	27 Carbon Disulfide	76	4.134	4.134	(0.736)	1869447	20.0000	19.5
	28 trans-1,2-dichloroethene	96	4.285	4.282	(0.763)	776605	20.0000	22.2
	29 Methyl Tert Butyl Ether	73	4.311	4.308	(0.767)	4976293	50.0000	50.8
	30 Vinyl Acetate	43	4.398	4.394	(0.783)	2447698	20.0000	22.6
	31 1,1-Dichloroethane	63	4.420	4.417	(0.787)	1579766	20.0000	21.2
$	32 Hexane-d14(S)	66	4.491	4.491	(0.799)	733000	10.0000	10.2
	33 Methyl Ethyl Ketone	72	4.562	4.562	(0.812)	386015	20.0000	20.4(Q)
	34 n-Hexane	57	4.587	4.591	(0.816)	1576932	20.0000	20.6(M)
	35 Di-isopropyl Ether	45	4.610	4.610	(0.820)	3127924	20.0000	20.4
	36 Ethyl Acetate	43	4.726	4.722	(0.841)	2045664	20.0000	20.6
	37 cis-1,2-Dichloroethene	96	4.735	4.732	(0.843)	847695	20.0000	21.0
	38 Ethyl Tert-Butyl Ether	59	4.835	4.835	(0.860)	7651743	50.0000	49.3
	39 Chloroform	83	4.851	4.845	(0.863)	1736107	20.0000	21.0
	40 Tetrahydrofuran	42	4.999	4.999	(0.890)	1274268	20.0000	21.9
	41 1,1,1-Trichloroethane	97	5.237	5.237	(0.932)	2139613	20.0000	21.8
	42 1,2-Dichloroethane	62	5.246	5.243	(0.934)	1658339	20.0000	20.8
	43 Benzene	78	5.475	5.472	(0.974)	2939944	20.0000	20.8
	44 Carbon tetrachloride	117	5.491	5.491	(0.977)	2069019	20.0000	23.2
	45 Cyclohexane	56	5.494	5.494	(0.978)	1672587	20.0000	20.7
	46 Tert Amyl Methyl Ether	73	5.610	5.610	(0.998)	2903397	20.0000	19.6
*	47 1,4-Difluorobenzene	114	5.619	5.616	(1.000)	1883345	10.0000	
	48 2,2,4-Trimethylpentane	57	5.777	5.774	(1.028)	11864325	50.0000	48.2
	49 Heptane	43	5.899	5.896	(1.050)	2010349	20.0000	21.4
	50 1,2-Dichloropropane	63	5.973	5.970	(1.063)	1201362	20.0000	21.4
	51 Trichloroethene	130	5.996	5.992	(1.067)	1556225	20.0000	21.6
	52 Methyl methacrylate	69	6.050	6.050	(1.077)	1068210	20.0000	22.7
	53 1,4-Dioxane	88	6.073	6.070	(1.081)	775205	20.0000	22.1
	54 Bromodichloromethane	83	6.092	6.089	(1.084)	2134763	20.0000	19.8
	55 Methylcyclohexane	98	6.439	6.436	(1.146)	883630	20.0000	22.0
	56 Methyl Isobutyl Ketone	43	6.536	6.533	(1.163)	6525132	50.0000	53.1
	57 cis-1,3-Dichloropropene	75	6.590	6.587	(1.173)	1791065	20.0000	19.6
	58 trans-1,3-Dichloropropene	75	6.989	6.986	(1.244)	1650392	20.0000	19.4
$	59 Toluene-d8 (S)	98	7.079	7.076	(1.260)	1683195	10.0000	10.6
	60 1,1,2-Trichloroethane	97	7.150	7.147	(1.272)	1226047	20.0000	21.5
	61 Toluene	91	7.159	7.153	(1.274)	3616328	20.0000	21.0
	62 Methyl Butyl Ketone	43	7.378	7.375	(0.853)	6270048	50.0000	54.4
	63 n-Octane	43	7.587	7.584	(0.878)	2662761	20.0000	20.2
	64 Dibromochloromethane	129	7.684	7.680	(0.889)	2394030	20.0000	19.5
	65 1,2-Dibromoethane	107	7.912	7.909	(0.915)	2118075	20.0000	21.3
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	1949939	20.0000	18.9
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1264811	10.0000	
	68 Chlorobenzene	112	8.690	8.687	(1.005)	3124921	20.0000	20.6
	69 Ethyl Benzene	91	8.938	8.938	(1.034)	4878655	20.0000	20.5
	70 m&p-Xylene	91	9.085	9.082	(1.051)	7031071	40.0000	39.3
	71 n-Nonane	43	9.475	9.471	(1.096)	2351794	20.0000	20.2
	72 Bromoform	173	9.484	9.481	(1.097)	1854041	20.0000	19.6
	73 Styrene	104	9.513	9.507	(1.100)	2840442	20.0000	21.3
	74 o-Xylene	91	9.584	9.581	(1.109)	3703222	20.0000	20.1
	75 1,1,2,2-Tetrachloroethane	83	9.835	9.831	(1.138)	2215811	20.0000	22.6
	76 Isopropylbenzene	105	10.166	10.163	(1.176)	5084702	20.0000	20.2
	77 N-Propylbenzene	91	10.741	10.738	(1.242)	5821902	20.0000	22.3

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08850.D
Report Date: 03-Apr-2017 09:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.912	(1.263)	4980432	20.0000	22.6
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	4140152	20.0000	21.7
80	n-Decane	57	11.381	11.378	(2.025)	2710658	20.0000	19.8
81	Tert-Butyl Benzene	119	11.500	11.497	(1.330)	4150517	20.0000	20.6
82	1,2,4-Trimethylbenzene	105	11.516	11.510	(1.332)	3659456	20.0000	21.1
83	1,3-Dichlorobenzene	146	11.799	11.796	(1.365)	2415338	20.0000	19.6
84	Sec- Butylbenzene	105	11.812	11.806	(1.366)	5178894	20.0000	20.6
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.854	(1.372)	687834	10.0000	11.9
86	Benzyl Chloride	91	11.867	11.867	(1.373)	2627518	20.0000	20.0
87	1,4-Dichlorobenzene	146	11.892	11.889	(1.376)	2503713	20.0000	20.2
88	p-Isopropyltoluene	119	11.992	11.989	(1.387)	4616604	20.0000	22.3
89	1,2,3-Trimethylbenzene	105	12.037	12.034	(1.392)	3703255	20.0000	22.1
90	1,2-Dichlorobenzene	146	12.281	12.282	(1.421)	2355982	20.0000	19.7
91	N-Butylbenzene	91	12.462	12.458	(1.441)	3751898	20.0000	19.7
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	838929	20.0000	19.7
93	1,2,4-Trichlorobenzene	180	14.037	14.040	(1.624)	730178	20.0000	20.0
94	Naphthalene	128	14.169	14.172	(1.639)	1864986	20.0000	19.9
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	787402	20.0000	20.0

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08850.D
Report Date: 03-Apr-2017 09:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08850.D
Lab Smp Id: cal6
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info:

Calibration Date: 30-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	1883345	3.34
67 Chlorobenzene - d	1204744	722846	1686642	1264811	4.99

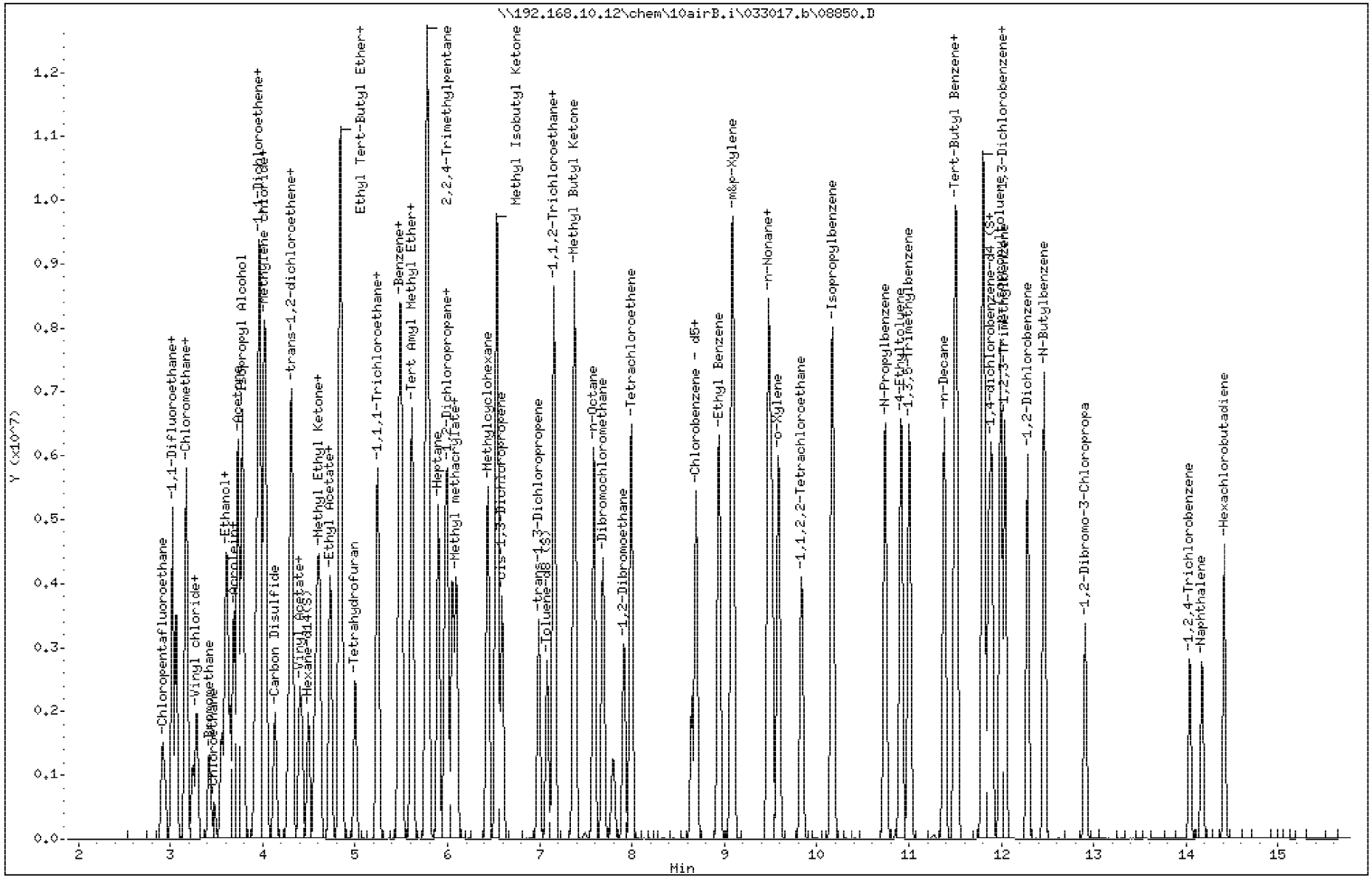
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.62	0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08850.D
Date : 30-MAR-2017 09:39
Client ID:
Sample Info:

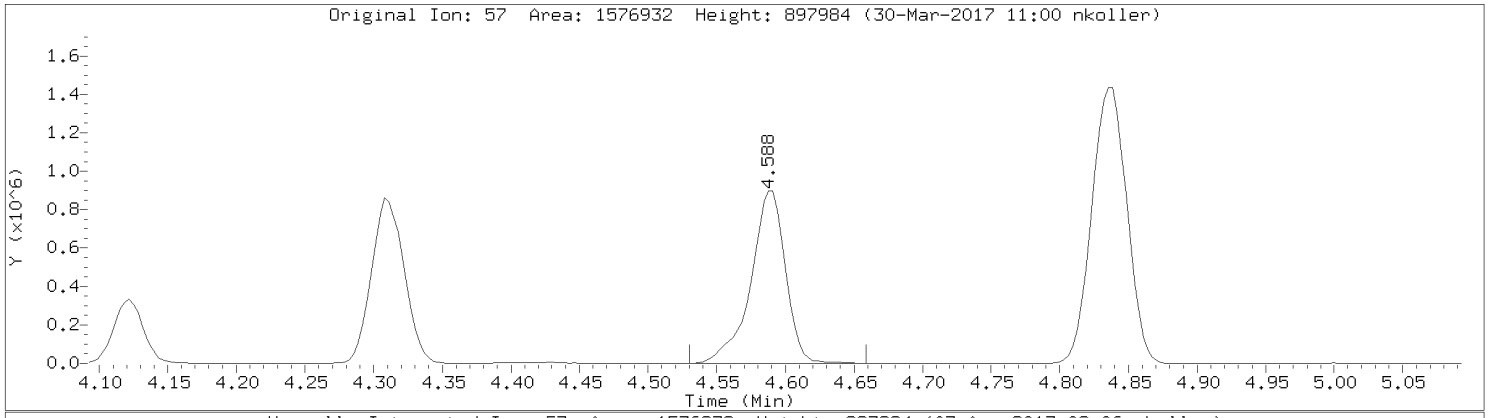
Instrument: 10airB.i

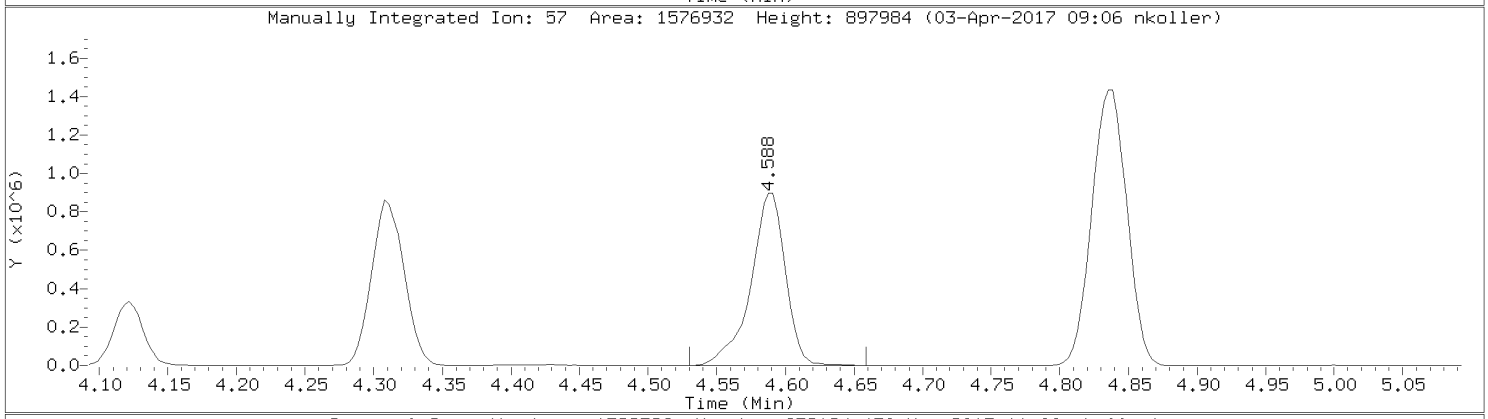
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

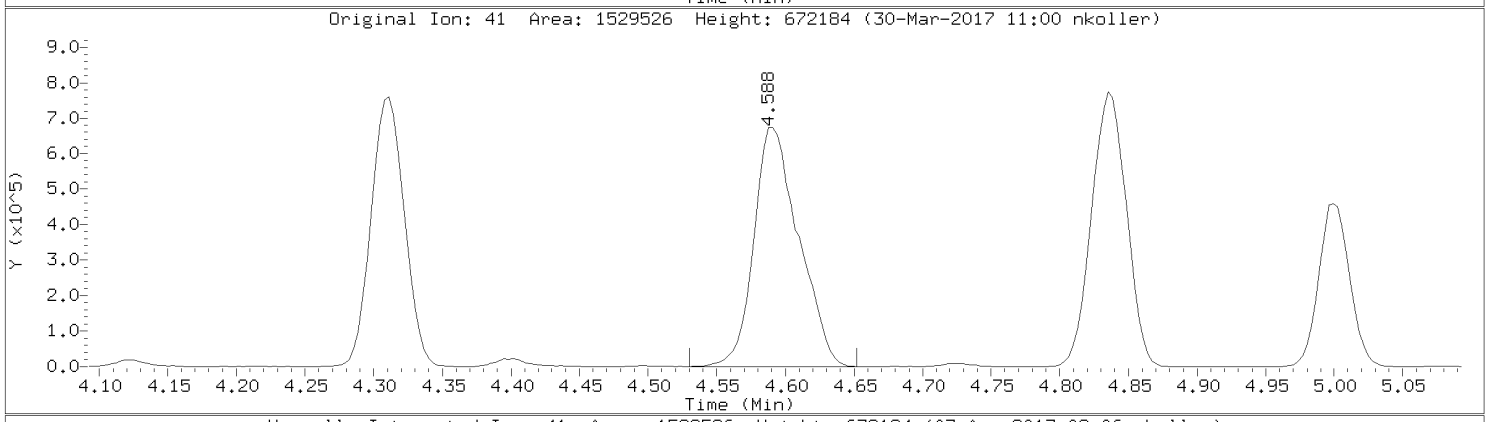


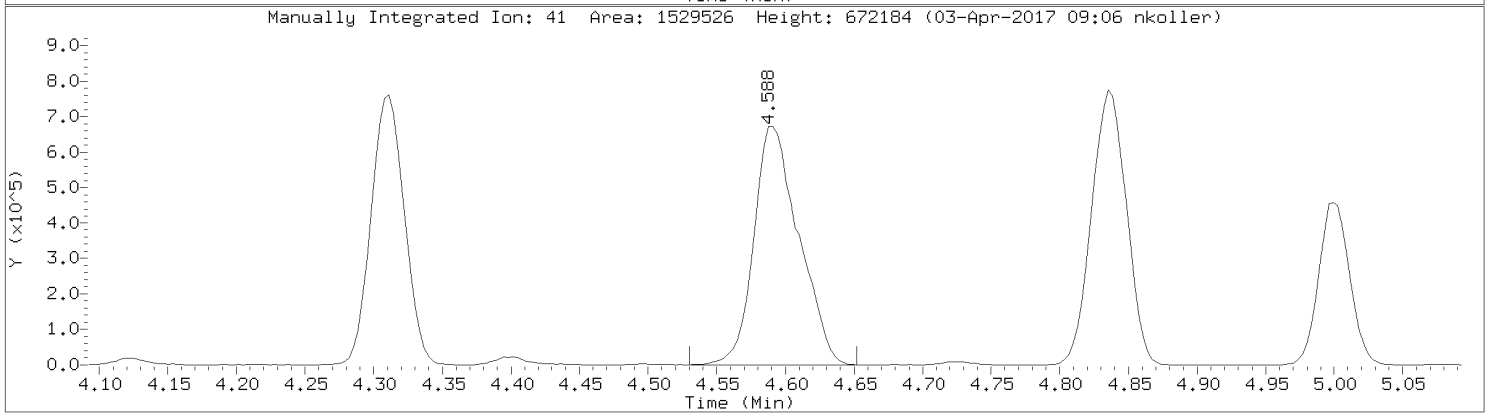
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08850.D
Injection Date: 30-MAR-2017 09:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: n-Hexane
CAS Number: 110-54-3

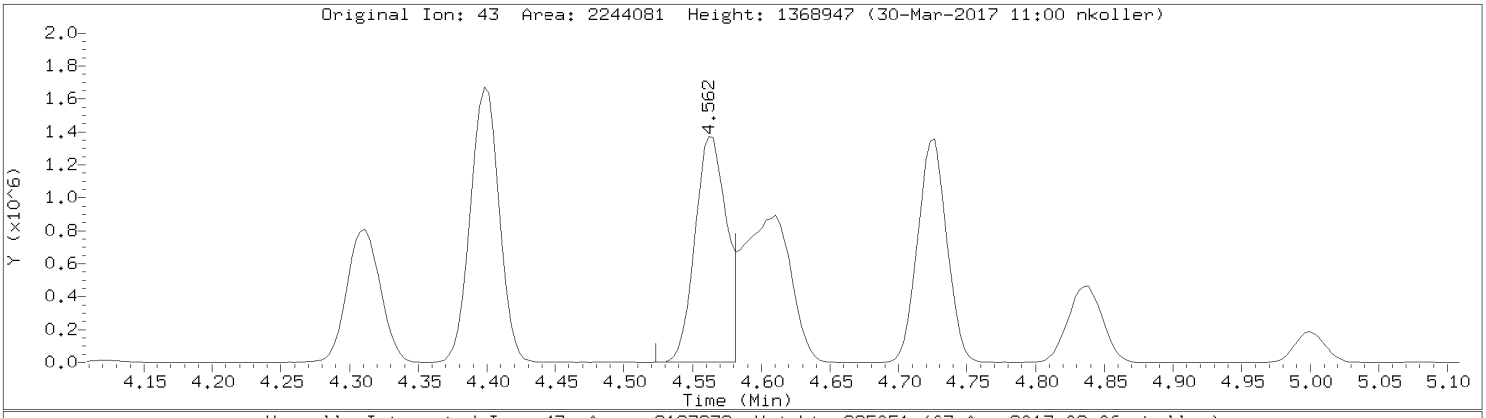


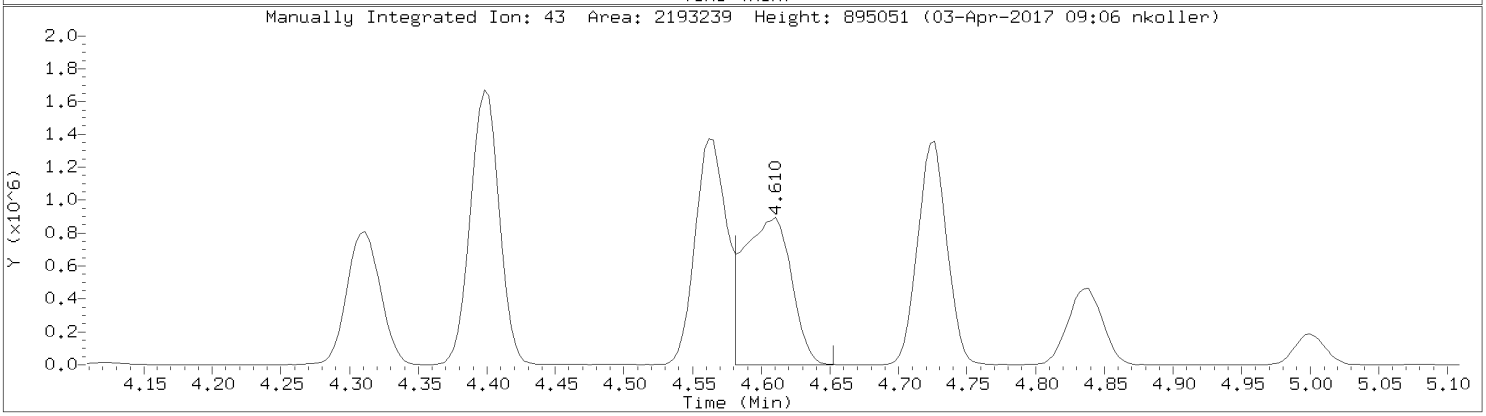






Data File: \\192.168.10.12\chem\10airB.i\033017.b/08850.D
Injection Date: 30-MAR-2017 09:39
Instrument: 10airB.i
Lab Sample ID: cal6





Data File: \\192.168.10.12\chem\10airB.i\033017.b\08851.D
Report Date: 03-Apr-2017 09:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08851.D
Lab Smp Id: cal7
Inj Date : 30-MAR-2017 10:08
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 03-Apr-2017 09:04 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 51 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.935	2.951	(0.522)	305703	30.0000	(a)
2	1,1-Difluoroethane	65	3.021	3.025	(0.537)	921683	30.0000	32.8(A)
3	Chlorodifluoromethane	67	3.021	3.034	(0.537)	382946	30.0000	32.1(A)
4	Propylene	41	3.018	3.038	(0.537)	1146610	30.0000	31.0(A)
5	Dichlorodifluoromethane	85	3.060	3.070	(0.544)	3788628	30.0000	29.7
6	Chloromethane	50	3.160	3.166	(0.562)	1849422	30.0000	33.2(A)
7	Dichlorotetrafluoroethane	85	3.173	3.176	(0.564)	3613518	30.0000	31.2(A)
8	Vinyl chloride	62	3.240	3.247	(0.576)	1566833	30.0000	33.7(A)
9	1,3-Butadiene	54	3.285	3.288	(0.584)	1221028	30.0000	34.0(A)
10	Bromomethane	94	3.420	3.423	(0.608)	1215549	30.0000	33.8(A)
11	Chloroethane	64	3.475	3.475	(0.618)	689787	30.0000	30.5(A)
12	Ethanol	45	3.558	3.552	(0.633)	2805672	150.000	166(A)
13	Vinyl Bromide	106	3.591	3.591	(0.639)	1131844	30.0000	33.1
14	Isopentane	43	3.607	3.607	(0.641)	1481413	30.0000	30.9(A)
15	Freon 123	83	3.648	3.642	(0.649)	1412826	30.0000	24.9(H)
16	Trichlorofluoromethane	101	3.687	3.681	(0.656)	2941900	30.0000	32.3(AH)
17	Acrolein	56	3.697	3.690	(0.657)	1184323	75.0000	84.0(AM)
18	Acetone	43	3.732	3.729	(0.664)	9386882	150.000	146
19	Isopropyl Alcohol	45	3.783	3.777	(0.673)	10498134	150.000	148
20	1,1-Dichloroethene	61	3.922	3.919	(0.698)	2124309	30.0000	33.2(A)
21	Acrylonitrile	53	3.941	3.935	(0.701)	2579468	75.0000	83.0(A)
22	Freon 113	101	3.960	3.957	(0.704)	2097365	30.0000	29.9
23	Methyl Acetate	43	3.973	3.967	(0.707)	2994248	30.0000	28.8

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08851.D
Report Date: 03-Apr-2017 09:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.973	3.964	(0.707)	6198957	75.0000	71.6
	25 Methylene chloride	49	4.015	4.012	(0.714)	7020512	150.000	143
	26 Allyl Chloride	76	4.028	4.025	(0.716)	770037	75.0000	70.8
	27 Carbon Disulfide	76	4.134	4.134	(0.735)	2717474	30.0000	30.1(A)
	28 trans-1,2-dichloroethene	96	4.285	4.282	(0.762)	1115551	30.0000	33.9(A)
	29 Methyl Tert Butyl Ether	73	4.311	4.308	(0.767)	6993225	75.0000	75.8(A)
	30 Vinyl Acetate	43	4.401	4.394	(0.783)	3604268	30.0000	35.3(A)
	31 1,1-Dichloroethane	63	4.423	4.417	(0.787)	2314158	30.0000	33.0(A)
$	32 Hexane-d14(S)	66	4.494	4.491	(0.799)	705433	10.0000	10.4
	33 Methyl Ethyl Ketone	72	4.565	4.562	(0.812)	564938	30.0000	31.7(AQM)
	34 n-Hexane	57	4.587	4.591	(0.816)	2246910	30.0000	31.2(AM)
	35 Di-isopropyl Ether	45	4.613	4.610	(0.820)	4480988	30.0000	31.1(A)
	36 Ethyl Acetate	43	4.726	4.722	(0.840)	2929687	30.0000	31.4(A)
	37 cis-1,2-Dichloroethene	96	4.735	4.732	(0.842)	1210255	30.0000	31.8(A)
	38 Ethyl Tert-Butyl Ether	59	4.838	4.835	(0.860)	10013578	75.0000	68.5
	39 Chloroform	83	4.854	4.845	(0.863)	2404786	30.0000	30.9(A)
	40 Tetrahydrofuran	42	5.002	4.999	(0.890)	1879383	30.0000	34.3(A)
	41 1,1,1-Trichloroethane	97	5.240	5.237	(0.932)	3017792	30.0000	32.7(A)
	42 1,2-Dichloroethane	62	5.250	5.243	(0.934)	2337330	30.0000	31.1(A)
	43 Benzene	78	5.475	5.472	(0.974)	4101295	30.0000	30.8(A)
	44 Carbon tetrachloride	117	5.494	5.491	(0.977)	2881873	30.0000	34.3(A)
	45 Cyclohexane	56	5.497	5.494	(0.978)	2274676	30.0000	29.9
	46 Tert Amyl Methyl Ether	73	5.613	5.610	(0.998)	4171919	30.0000	30.0
*	47 1,4-Difluorobenzene	114	5.623	5.616	(1.000)	1772650	10.0000	
	48 2,2,4-Trimethylpentane	57	5.780	5.774	(1.028)	15153673	75.0000	65.4
	49 Heptane	43	5.902	5.896	(1.050)	2880284	30.0000	32.6(A)
	50 1,2-Dichloropropane	63	5.976	5.970	(1.063)	1719977	30.0000	32.6(A)
	51 Trichloroethene	130	5.999	5.992	(1.067)	2212349	30.0000	32.6(A)
	52 Methyl methacrylate	69	6.053	6.050	(1.077)	1517557	30.0000	34.3(A)
	53 1,4-Dioxane	88	6.073	6.070	(1.080)	1043813	30.0000	31.7(A)
	54 Bromodichloromethane	83	6.095	6.089	(1.084)	3023630	30.0000	29.8
	55 Methylcyclohexane	98	6.443	6.436	(1.146)	1282993	30.0000	34.0(A)
	56 Methyl Isobutyl Ketone	43	6.539	6.533	(1.163)	8747153	75.0000	75.6(A)
	57 cis-1,3-Dichloropropene	75	6.597	6.587	(1.173)	2582667	30.0000	30.0(A)
	58 trans-1,3-Dichloropropene	75	6.992	6.986	(1.244)	2427525	30.0000	30.3(A)
$	59 Toluene-d8 (S)	98	7.082	7.076	(1.260)	1643502	10.0000	11.0
	60 1,1,2-Trichloroethane	97	7.153	7.147	(1.272)	1703037	30.0000	31.7(A)
	61 Toluene	91	7.160	7.153	(1.273)	5029209	30.0000	31.0(A)
	62 Methyl Butyl Ketone	43	7.381	7.375	(0.854)	8533448	75.0000	75.0
	63 n-Octane	43	7.587	7.584	(0.877)	3800388	30.0000	29.1
	64 Dibromochloromethane	129	7.687	7.680	(0.889)	3444502	30.0000	30.2(A)
	65 1,2-Dibromoethane	107	7.915	7.909	(0.915)	3044289	30.0000	31.0(A)
	66 Tetrachloroethene	166	7.992	7.989	(0.924)	2821111	30.0000	27.7
*	67 Chlorobenzene - d5	117	8.648	8.645	(1.000)	1249538	10.0000	
	68 Chlorobenzene	112	8.693	8.687	(1.005)	4503967	30.0000	30.0(A)
	69 Ethyl Benzene	91	8.941	8.938	(1.034)	6849559	30.0000	29.1
	70 m&p-Xylene	91	9.089	9.082	(1.051)	9591551	60.0000	54.2
	71 n-Nonane	43	9.475	9.471	(1.096)	3166221	30.0000	27.6
	72 Bromoform	173	9.487	9.481	(1.097)	2619674	30.0000	30.2(A)
	73 Styrene	104	9.513	9.507	(1.100)	4047347	30.0000	30.8(A)
	74 o-Xylene	91	9.587	9.581	(1.109)	5248864	30.0000	28.9
	75 1,1,2,2-Tetrachloroethane	83	9.835	9.831	(1.137)	3196365	30.0000	33.0(A)
	76 Isopropylbenzene	105	10.166	10.163	(1.175)	7189357	30.0000	28.9
	77 N-Propylbenzene	91	10.745	10.738	(1.242)	8246810	30.0000	32.0(A)

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08851.D
Report Date: 03-Apr-2017 09:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.918	10.912	(1.262)	7097820	30.0000	32.6(A)
79	1,3,5-Trimethylbenzene	105	11.005	11.002	(1.273)	5886452	30.0000	31.2(A)
80	n-Decane	57	11.384	11.378	(2.025)	3875989	30.0000	30.0
81	Tert-Butyl Benzene	119	11.503	11.497	(1.330)	5816834	30.0000	29.2
82	1,2,4-Trimethylbenzene	105	11.520	11.510	(1.332)	5069683	30.0000	29.6
83	1,3-Dichlorobenzene	146	11.802	11.796	(1.365)	3410621	30.0000	30.2(A)
84	Sec- Butylbenzene	105	11.812	11.806	(1.366)	7133663	30.0000	28.7
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.860	11.854	(1.371)	708868	10.0000	12.4
86	Benzyl Chloride	91	11.873	11.867	(1.373)	3897775	30.0000	29.9
87	1,4-Dichlorobenzene	146	11.896	11.889	(1.375)	3628632	30.0000	29.6
88	p-Isopropyltoluene	119	11.995	11.989	(1.387)	6535350	30.0000	31.9(A)
89	1,2,3-Trimethylbenzene	105	12.040	12.034	(1.392)	5251075	30.0000	31.7(A)
90	1,2-Dichlorobenzene	146	12.285	12.282	(1.420)	3442996	30.0000	30.1(A)
91	N-Butylbenzene	91	12.465	12.458	(1.441)	5346956	30.0000	30.1(A)
92	1,2-Dibromo-3-Chloropropane	157	12.909	12.905	(1.493)	1282136	30.0000	30.2(A)
93	1,2,4-Trichlorobenzene	180	14.044	14.040	(1.624)	1195809	30.0000	30.0
94	Naphthalene	128	14.175	14.172	(1.639)	2958201	30.0000	30.0(A)
95	Hexachlorobutadiene	225	14.417	14.413	(1.667)	1155441	30.0000	29.8

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08851.D
Report Date: 03-Apr-2017 09:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08851.D
Lab Smp Id: cal7
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info:

Calibration Date: 30-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	1772650	-2.73
67 Chlorobenzene - d	1204744	722846	1686642	1249538	3.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.62	0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

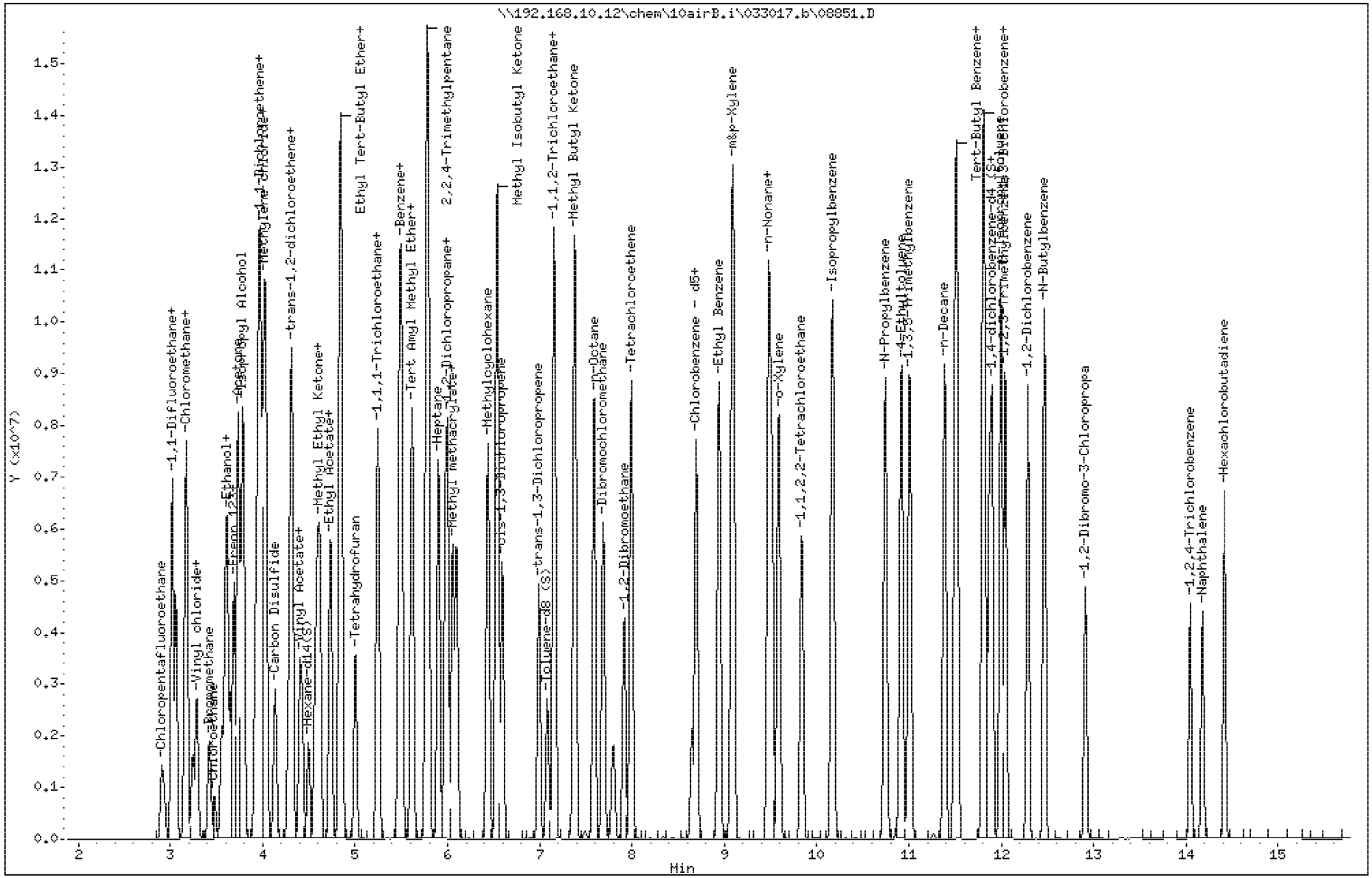
Data File: \\192.168.10.12\chem\10airB.i\033017.b\08851.D
Date : 30-MAR-2017 10:08
Client ID:
Sample Info:

Instrument: 10airB.i

Operator: NCK

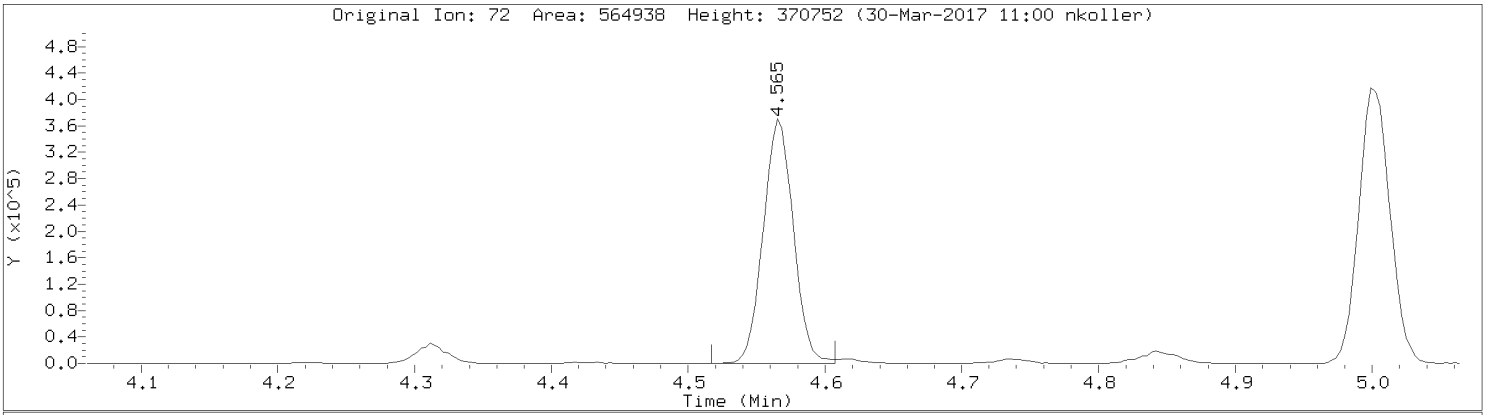
Column phase: J&W DB-5

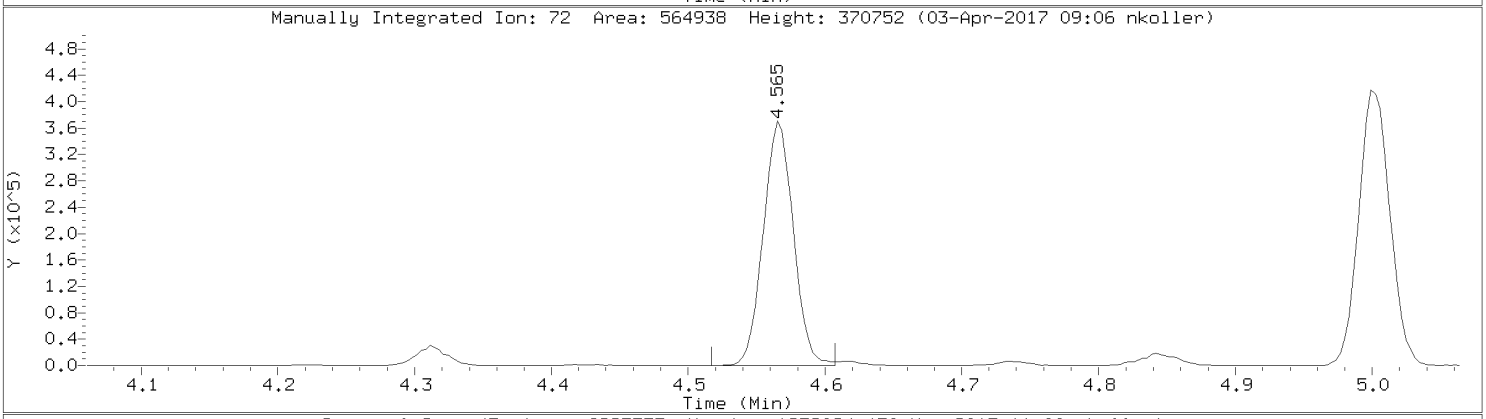
Column diameter: 0.32

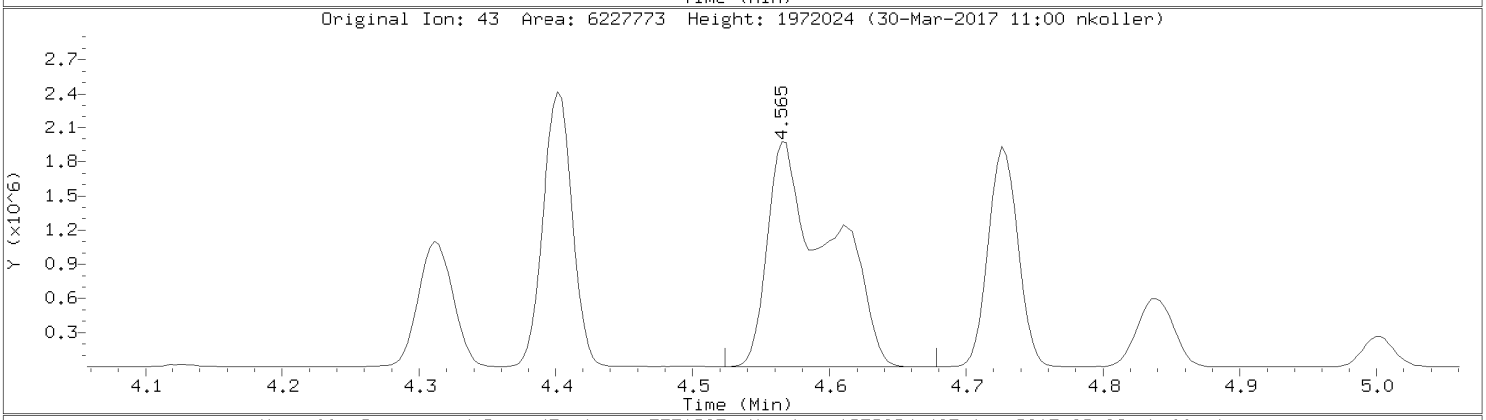


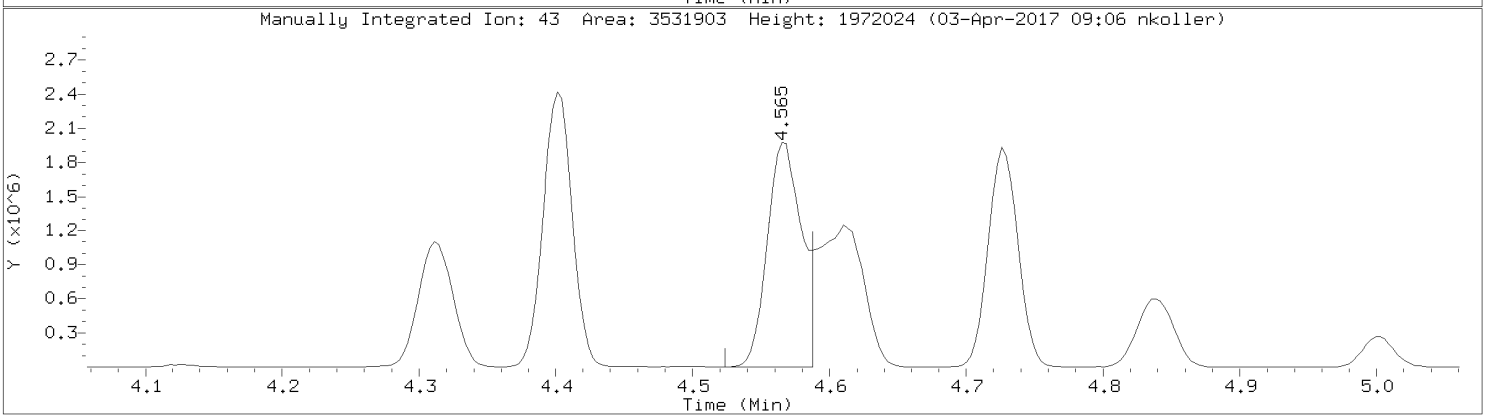
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08851.D
Injection Date: 30-MAR-2017 10:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



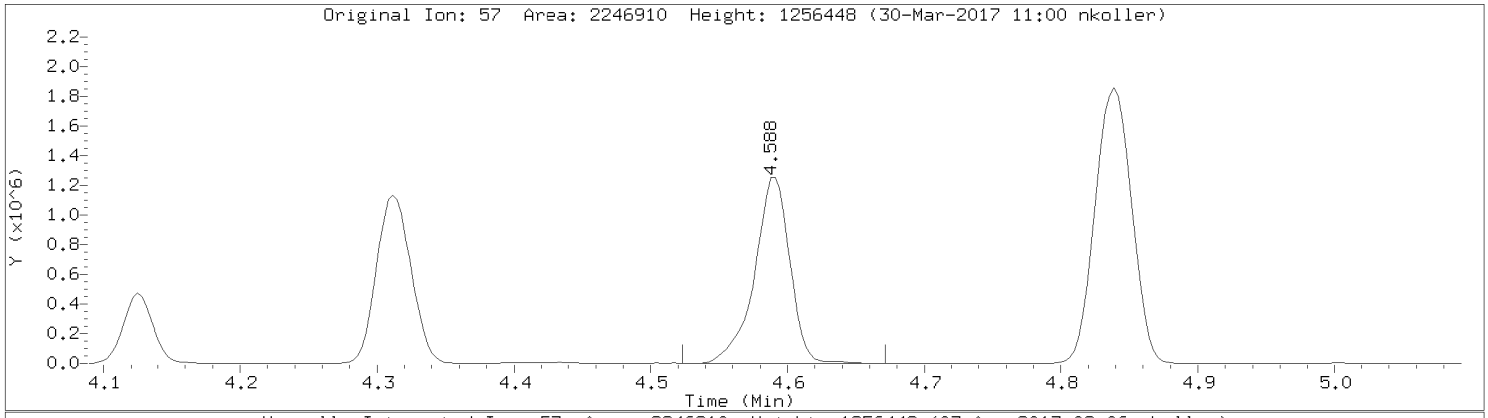


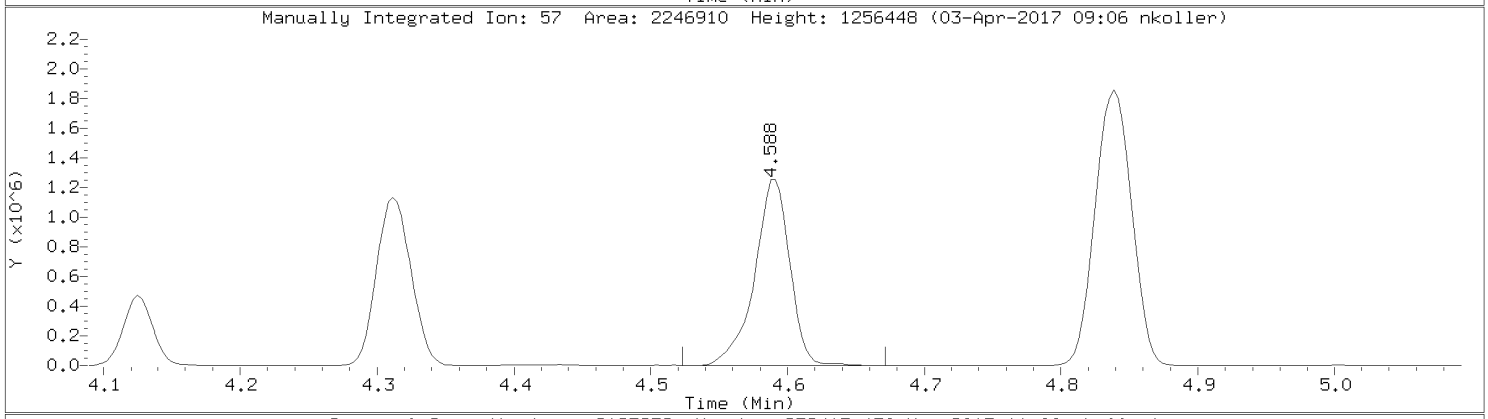


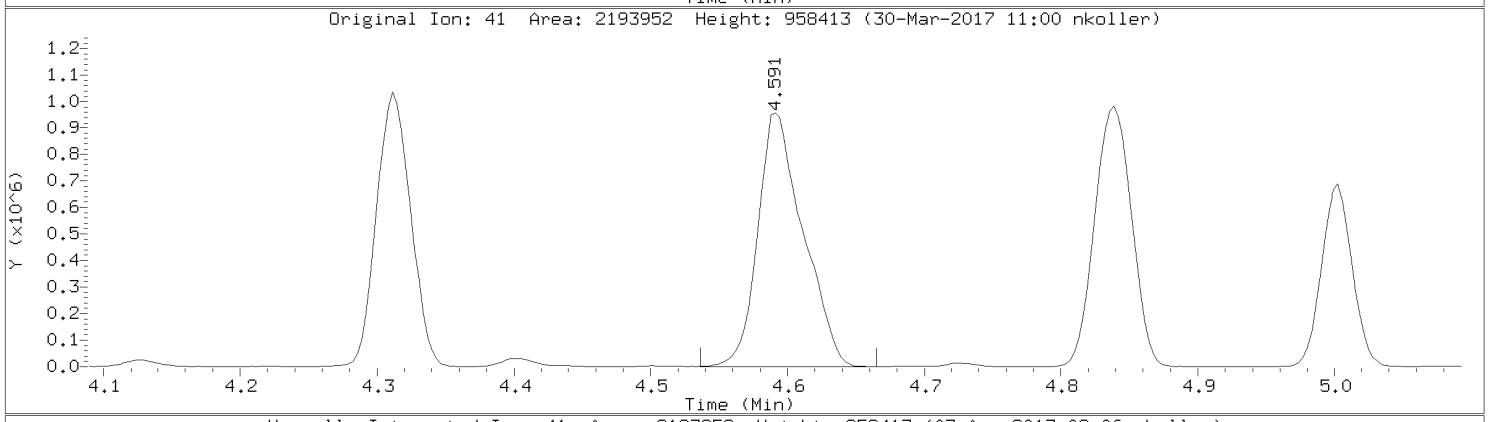


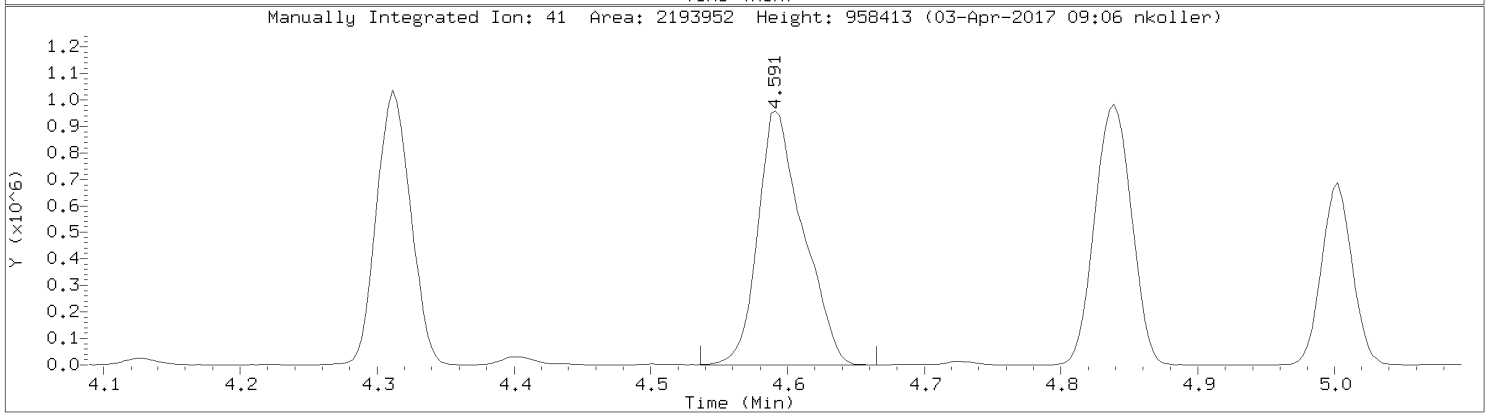
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08851.D
Injection Date: 30-MAR-2017 10:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: n-Hexane
CAS Number: 110-54-3

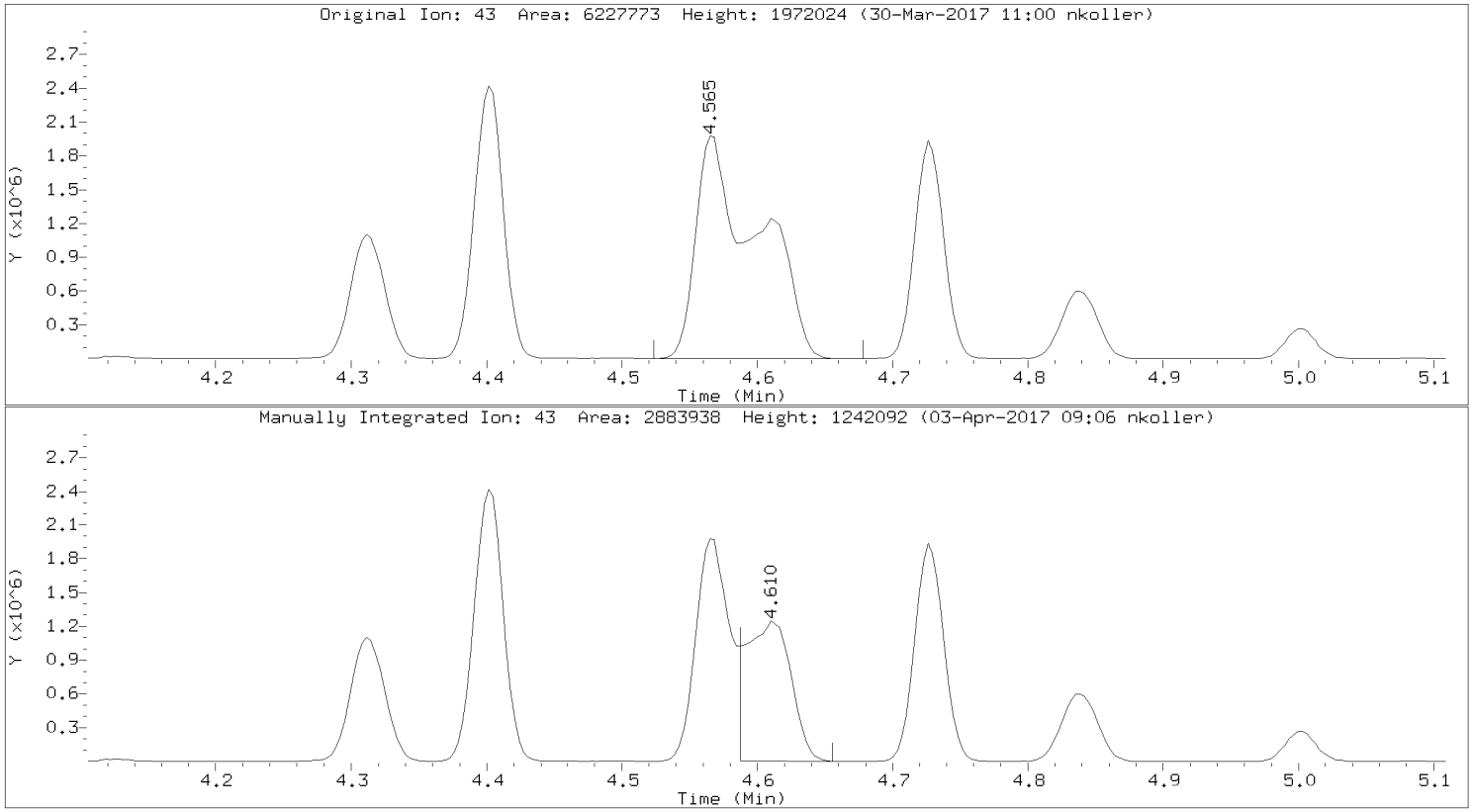






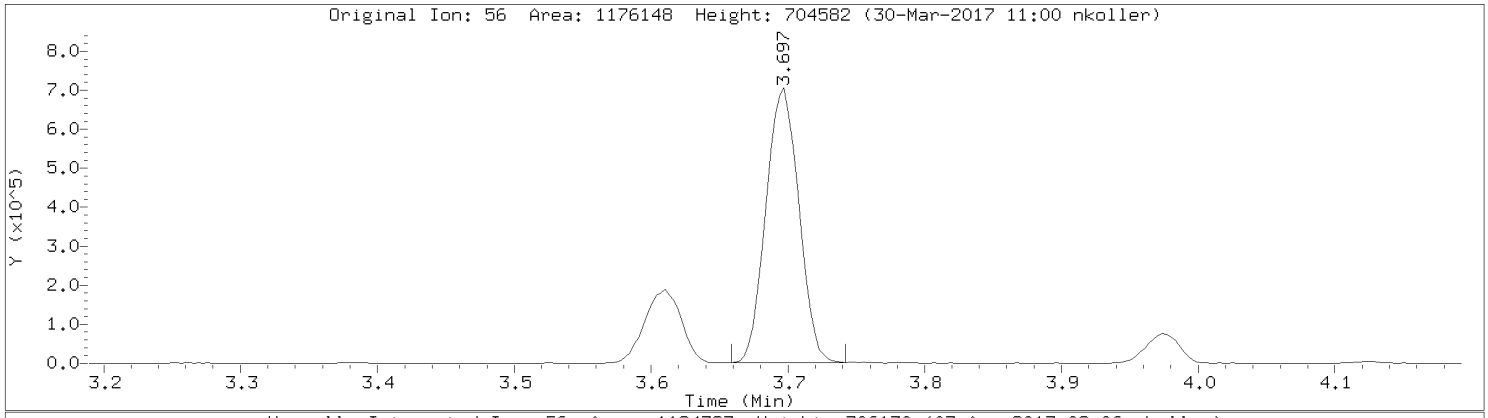


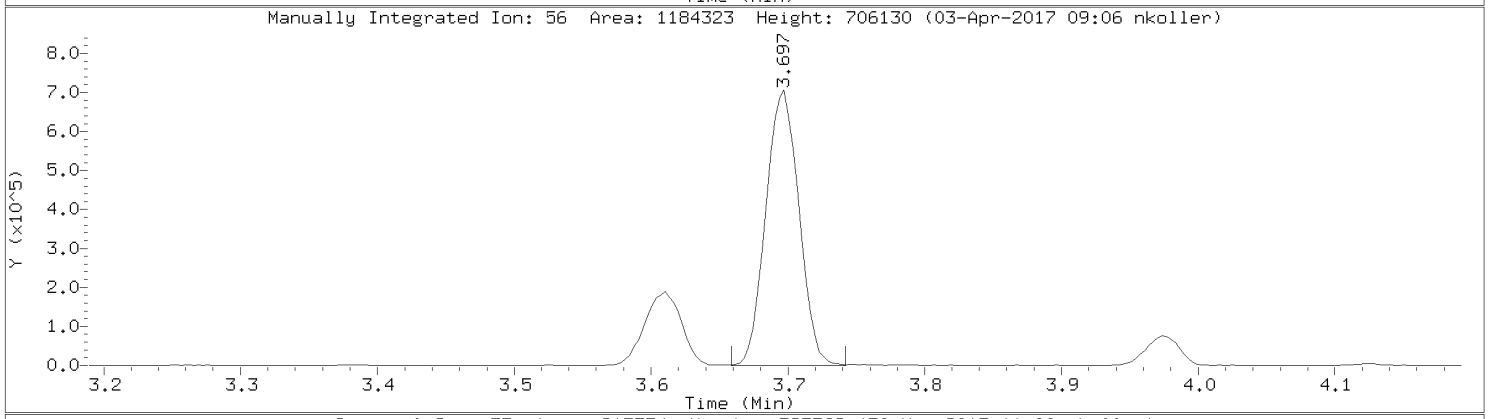
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08851.D
Injection Date: 30-MAR-2017 10:08
Instrument: 10airB.i
Lab Sample ID: cal7

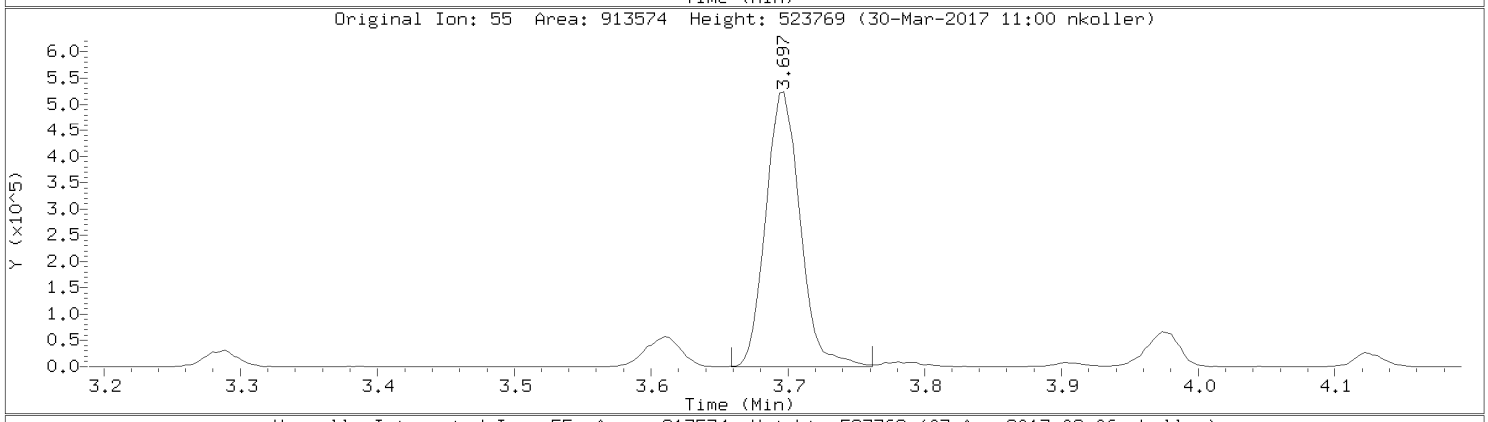


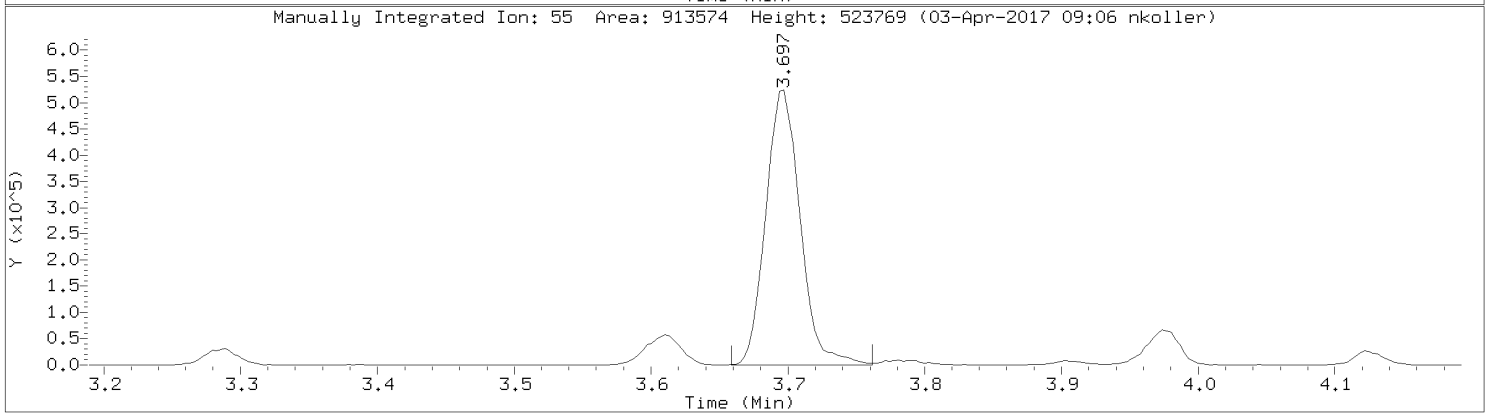
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08851.D
Injection Date: 30-MAR-2017 10:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: Acrolein
CAS Number: 107-02-08









Data File: \\192.168.10.12\chem\10airB.i\033017.b\08853.D
Report Date: 03-Apr-2017 10:12

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08853.D
Lab Smp Id: ICV
Inj Date : 30-MAR-2017 11:03
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 03-Apr-2017 09:10 nkoller Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 53 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	Compound Not Detected.					
2	1,1-Difluoroethane	65	Compound Not Detected.					
3	Chlorodifluoromethane	67	2.996	3.034	(0.534)	138326	9.49995	9.50(Q)
4	Propylene	41	2.999	3.038	(0.535)	401065	8.88263	8.88
5	Dichlorodifluoromethane	85	3.031	3.070	(0.541)	1360810	8.72577	8.73
6	Chloromethane	50	3.124	3.166	(0.557)	647149	9.50251	9.50
7	Dichlorotetrafluoroethane	85	3.144	3.176	(0.561)	1290438	9.12713	9.13
8	Vinyl chloride	62	3.208	3.247	(0.572)	549180	9.66520	9.67
9	1,3-Butadiene	54	3.253	3.288	(0.580)	423379	9.65139	9.65
10	Bromomethane	94	3.391	3.423	(0.605)	398485	9.07671	9.08
11	Chloroethane	64	3.446	3.475	(0.615)	226953	8.29468	8.29
12	Ethanol	45	3.533	3.552	(0.630)	183677	8.87611	8.88
13	Vinyl Bromide	106	3.568	3.591	(0.636)	422578	10.1143	10.1
14	Isopentane	43	3.587	3.607	(0.640)	513621	8.77468	8.77
15	Freon 123	83	Compound Not Detected.					
16	Trichlorofluoromethane	101	3.661	3.681	(0.653)	1032892	9.27738	9.28
17	Acrolein	56	3.671	3.690	(0.655)	172062	9.99019	9.99(M)
18	Acetone	43	3.709	3.729	(0.662)	755961	9.64898	9.65
19	Isopropyl Alcohol	45	3.754	3.777	(0.670)	882904	10.2176	10.2
20	1,1-Dichloroethene	61	3.899	3.919	(0.695)	755516	9.68398	9.68
21	Acrylonitrile	53	3.915	3.935	(0.698)	403829	10.6472	10.6
22	Freon 113	101	3.938	3.957	(0.702)	824459	9.62261	9.62
23	Methyl Acetate	43	3.947	3.967	(0.704)	168073	1.32310	1.32(Q)

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08853.D
Report Date: 03-Apr-2017 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.944	3.964	(0.704)	1110028	10.5071	10.5
	25 Methylene chloride	49	3.992	4.012	(0.712)	609044	10.1258	10.1
	26 Allyl Chloride	76	4.005	4.025	(0.714)	175236	13.1899	13.2(Q)
	27 Carbon Disulfide	76	4.115	4.134	(0.734)	1083392	9.88546	9.89
	28 trans-1,2-dichloroethene	96	4.262	4.282	(0.760)	423815	10.5448	10.5
	29 Methyl Tert Butyl Ether	73	4.298	4.308	(0.767)	1074649	9.53772	9.54
	30 Vinyl Acetate	43	4.378	4.394	(0.781)	1373952	11.0336	11.0
	31 1,1-Dichloroethane	63	4.398	4.417	(0.784)	834082	9.74672	9.75
$	32 Hexane-d14(S)	66	4.481	4.491	(0.799)	820216	9.92663	9.93
	33 Methyl Ethyl Ketone	72	4.549	4.562	(0.811)	186698	8.59125	8.59(Q)
	34 n-Hexane	57	4.578	4.591	(0.816)	832893	9.47185	9.47(QM)
	35 Di-isopropyl Ether	45	4.600	4.610	(0.821)	1556940	8.84431	8.84
	36 Ethyl Acetate	43	4.713	4.722	(0.841)	1055586	9.27271	9.27
	37 cis-1,2-Dichloroethene	96	4.713	4.732	(0.841)	441840	9.51231	9.51
	38 Ethyl Tert-Butyl Ether	59	4.822	4.835	(0.860)	1745553	9.78494	9.78
	39 Chloroform	83	4.832	4.845	(0.862)	953439	10.0186	10.0
	40 Tetrahydrofuran	42	4.989	4.999	(0.890)	638454	9.54435	9.54
	41 1,1,1-Trichloroethane	97	5.224	5.237	(0.932)	1121496	9.95270	9.95
	42 1,2-Dichloroethane	62	5.234	5.243	(0.933)	884444	9.65434	9.65
	43 Benzene	78	5.459	5.472	(0.974)	1563406	9.61205	9.61
	44 Carbon tetrachloride	117	5.478	5.491	(0.977)	1138257	11.1090	11.1
	45 Cyclohexane	56	5.484	5.494	(0.978)	909176	9.79017	9.79
	46 Tert Amyl Methyl Ether	73	5.600	5.610	(0.999)	1482403	8.59222	8.59
*	47 1,4-Difluorobenzene	114	5.606	5.616	(1.000)	2164167	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.774	(1.029)	2966666	10.4865	10.5
	49 Heptane	43	5.886	5.896	(1.050)	1053646	9.75941	9.76
	50 1,2-Dichloropropane	63	5.963	5.970	(1.064)	641668	9.95303	9.95
	51 Trichloroethene	130	5.983	5.992	(1.067)	812656	9.79926	9.80
	52 Methyl methacrylate	69	6.041	6.050	(1.077)	534049	9.87452	9.87
	53 1,4-Dioxane	88	6.063	6.070	(1.081)	380032	9.44279	9.44
	54 Bromodichloromethane	83	6.082	6.089	(1.085)	1140784	9.14678	9.15
	55 Methylcyclohexane	98	6.430	6.436	(1.147)	466343	10.1203	10.1
	56 Methyl Isobutyl Ketone	43	6.529	6.533	(1.165)	1541193	10.9134	10.9
	57 cis-1,3-Dichloropropene	75	6.584	6.587	(1.174)	937820	8.97438	8.97
	58 trans-1,3-Dichloropropene	75	6.983	6.986	(1.245)	863078	8.92723	8.93
$	59 Toluene-d8 (S)	98	7.073	7.076	(1.261)	1813693	9.92543	9.93
	60 1,1,2-Trichloroethane	97	7.143	7.147	(1.274)	667500	10.1713	10.2
	61 Toluene	91	7.150	7.153	(1.275)	1947208	9.82718	9.83
	62 Methyl Butyl Ketone	43	7.372	7.375	(0.853)	1394168	11.6422	11.6
	63 n-Octane	43	Compound Not Detected.					
	64 Dibromochloromethane	129	7.674	7.680	(0.888)	1262472	9.46078	9.46
	65 1,2-Dibromoethane	107	7.905	7.909	(0.915)	1142620	11.0762	11.1
	66 Tetrachloroethene	166	7.983	7.989	(0.924)	1034241	9.66132	9.66
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	1314548	10.0000	
	68 Chlorobenzene	112	8.684	8.687	(1.005)	1660496	10.5234	10.5
	69 Ethyl Benzene	91	8.934	8.938	(1.034)	2668955	10.7885	10.8
	70 m&p-Xylene	91	9.079	9.082	(1.051)	2155434	11.5836	11.6
	71 n-Nonane	43	Compound Not Detected.					
	72 Bromoform	173	9.481	9.481	(1.097)	1096943	10.5430	10.5
	73 Styrene	104	9.507	9.507	(1.100)	1575376	11.3910	11.4
	74 o-Xylene	91	9.577	9.581	(1.108)	2118772	11.0784	11.1
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.831	(1.137)	1249965	12.2677	12.3
	76 Isopropylbenzene	105	10.159	10.163	(1.176)	2887113	11.0478	11.0
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	3322095	12.2600	12.3

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08853.D
Report Date: 03-Apr-2017 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.263)	2747329	12.0114	12.0
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	2395078	12.0576	12.1
80	n-Decane	57	11.375	11.378	(2.029)	8006	0.13525	0.135
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2400245	11.4450	11.4
82	1,2,4-Trimethylbenzene	105	11.513	11.510	(1.332)	2214436	12.3021	12.3
83	1,3-Dichlorobenzene	146	11.793	11.796	(1.365)	1386132	10.2015	10.2
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	3126501	11.9679	12.0
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.372)	682635	11.3896	11.4
86	Benzyl Chloride	91	11.867	11.867	(1.373)	1234106	9.20683	9.21
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.376)	1354931	10.5030	10.5
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	2611239	12.1322	12.1
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	2185511	12.5275	12.5
90	1,2-Dichlorobenzene	146	12.281	12.282	(1.421)	1299188	10.1598	10.2
91	N-Butylbenzene	91	12.462	12.458	(1.442)	2129406	10.2864	10.3
92	1,2-Dibromo-3-Chloropropane	157	12.912	12.905	(1.494)	6300	0.47142	0.471
93	1,2,4-Trichlorobenzene	180	14.031	14.040	(1.624)	337187	10.0749	10.1
94	Naphthalene	128	14.156	14.172	(1.638)	932290	10.2677	10.3
95	Hexachlorobutadiene	225	14.394	14.413	(1.666)	447146	10.9400	10.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08853.D
Report Date: 03-Apr-2017 10:12

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08853.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info:

Calibration Date: 30-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

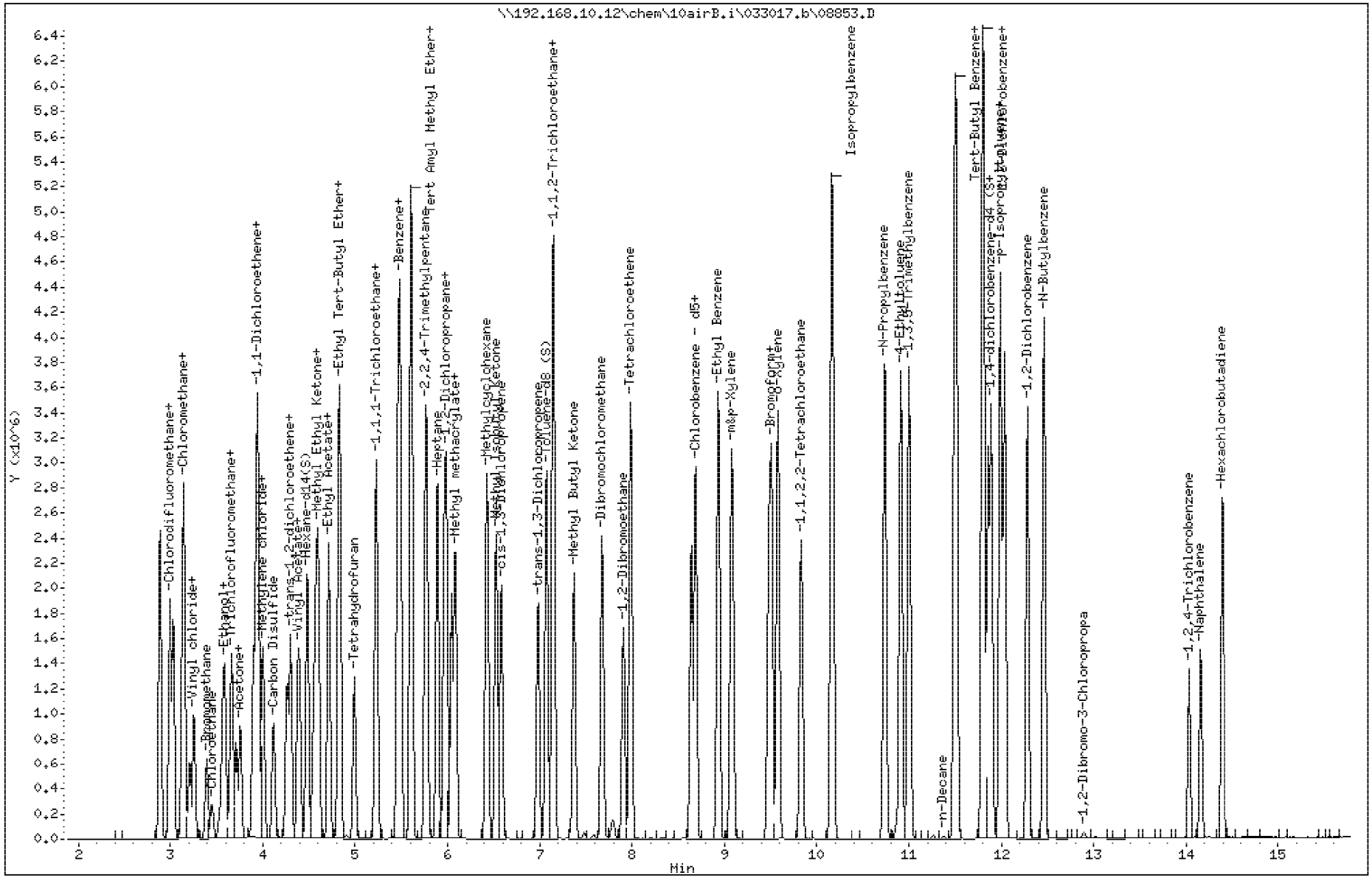
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	2164167	18.75
67 Chlorobenzene - d	1204744	722846	1686642	1314548	9.11

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.61	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

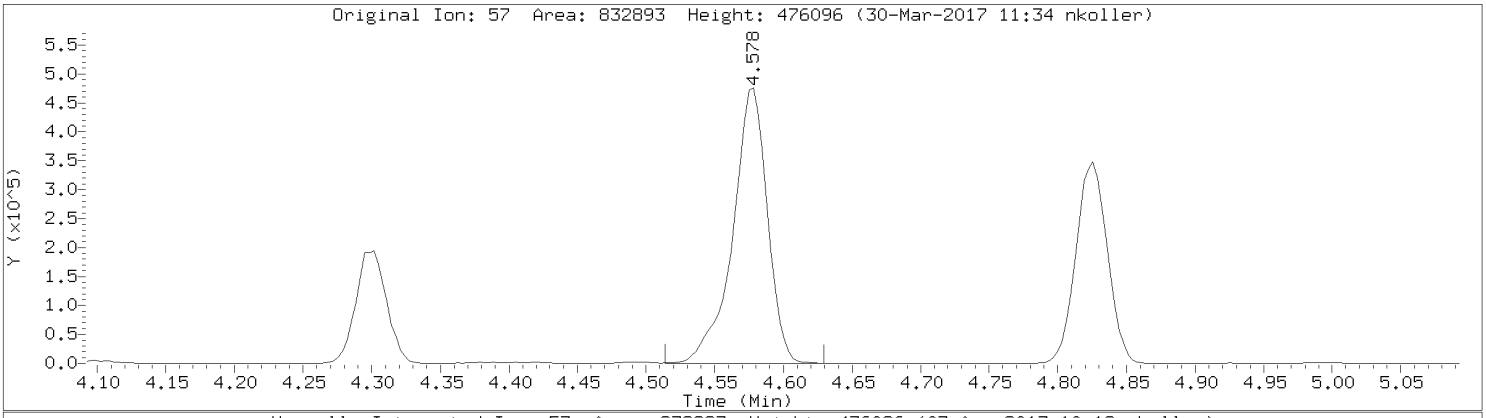
Data File: \\192.168.10.12\chem\10airB.i\033017.b\08853.D
Date : 30-MAR-2017 11:03
Client ID:
Sample Info:

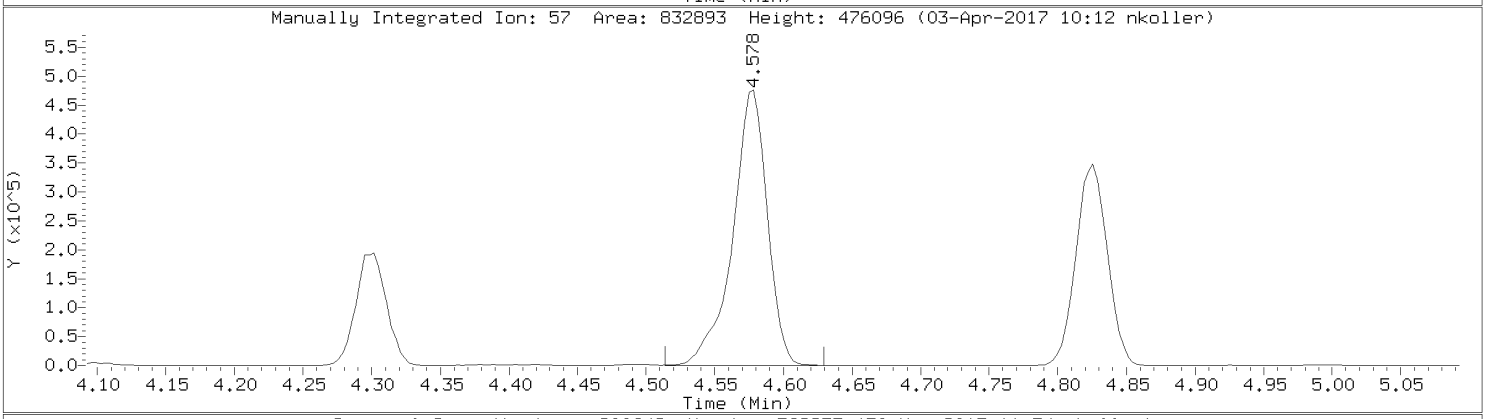
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

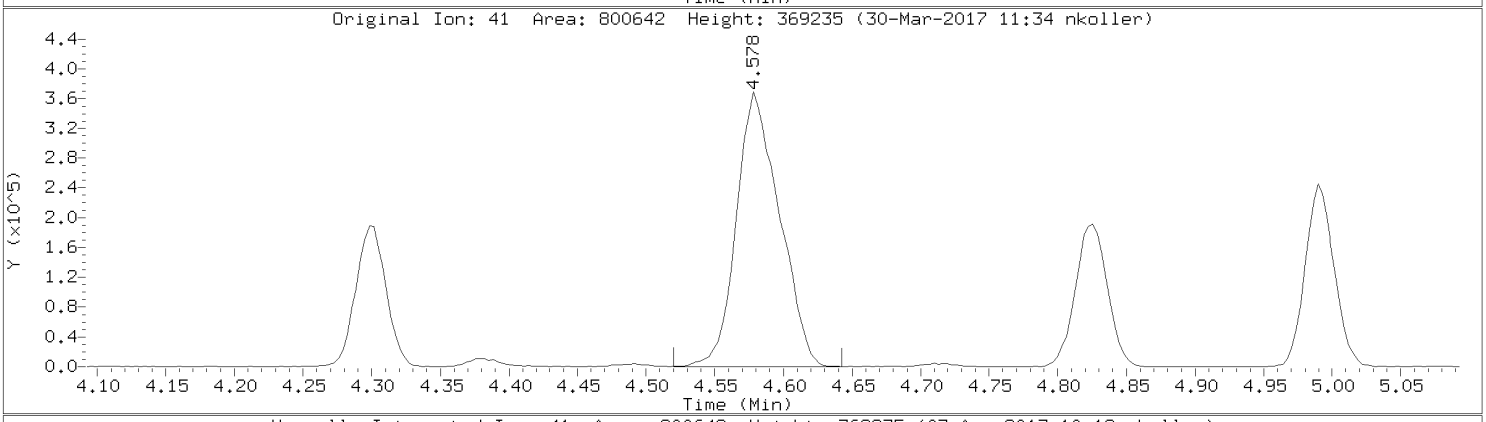


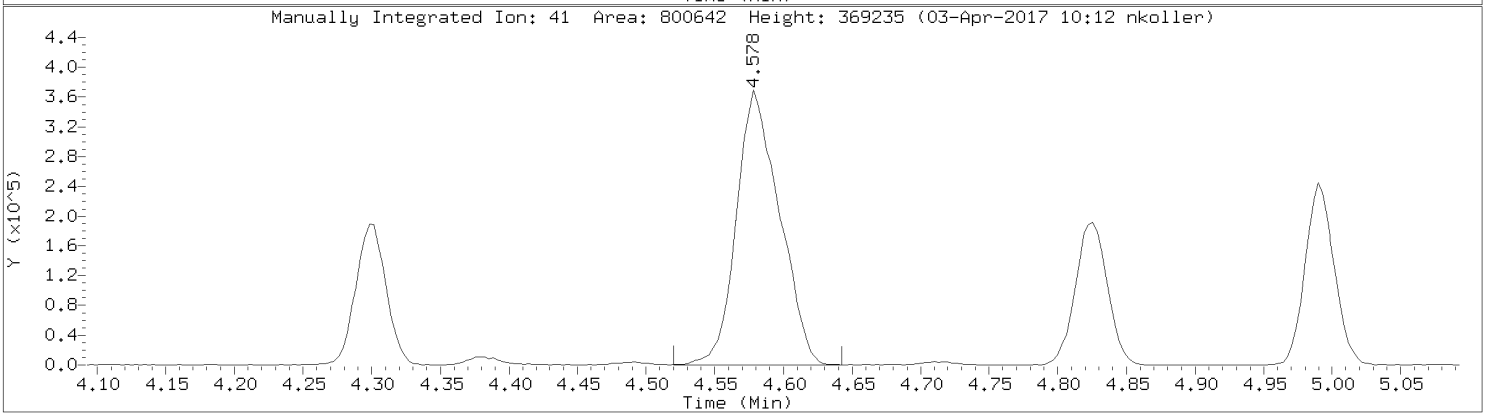
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08853.D
Injection Date: 30-MAR-2017 11:03
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: n-Hexane
CAS Number: 110-54-3

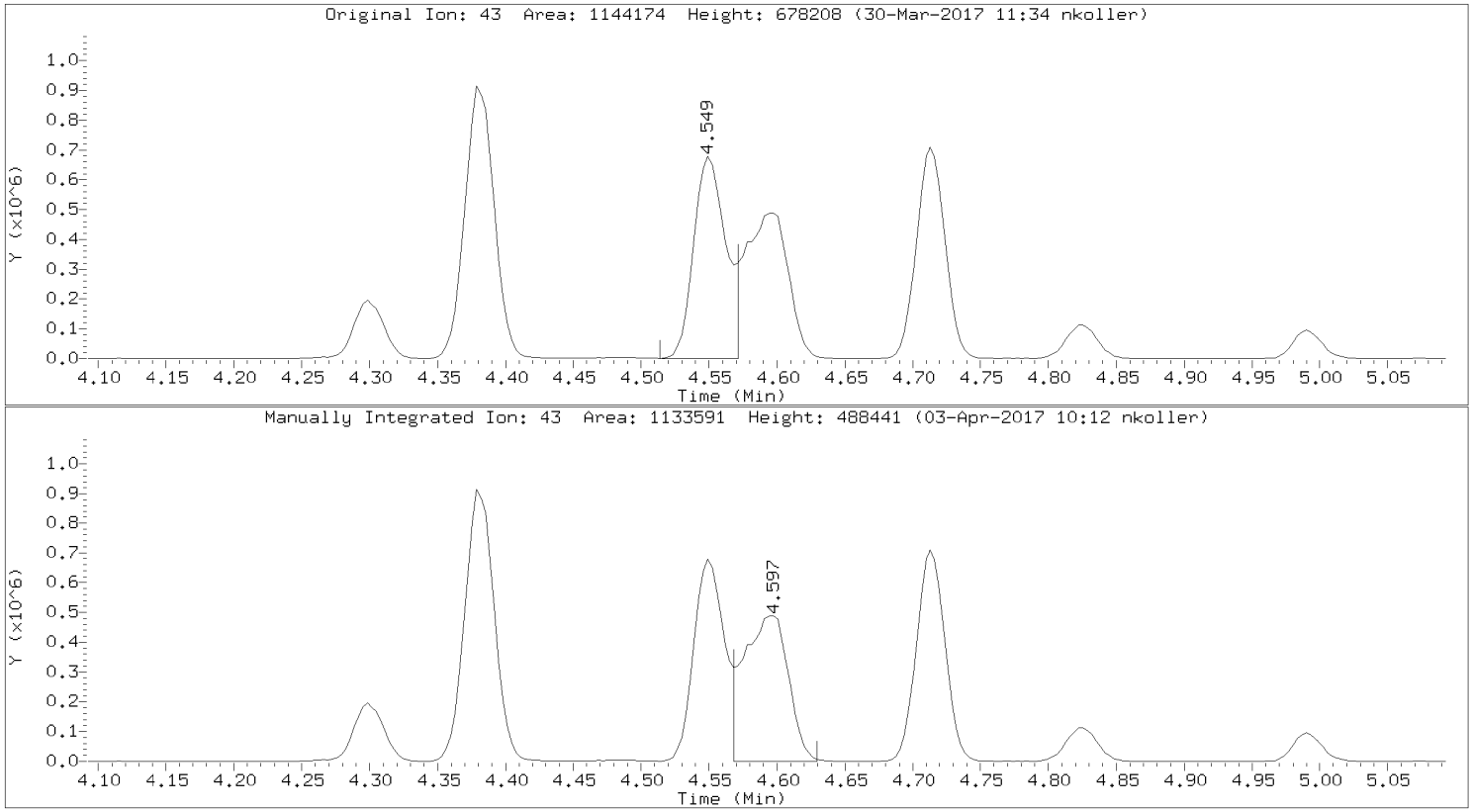






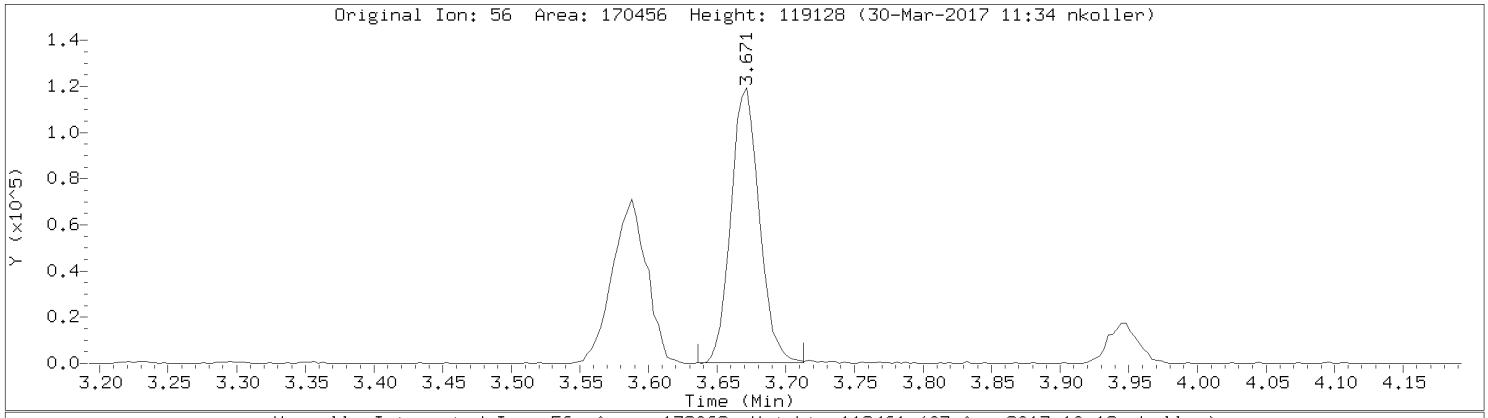


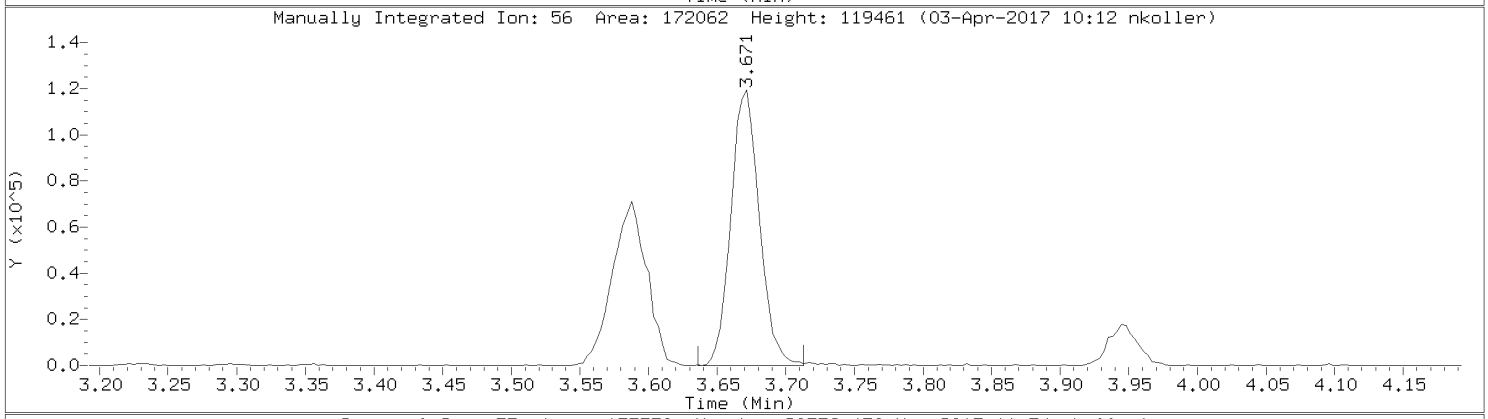
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08853.D
Injection Date: 30-MAR-2017 11:03
Instrument: 10airB.i
Lab Sample ID: ICV

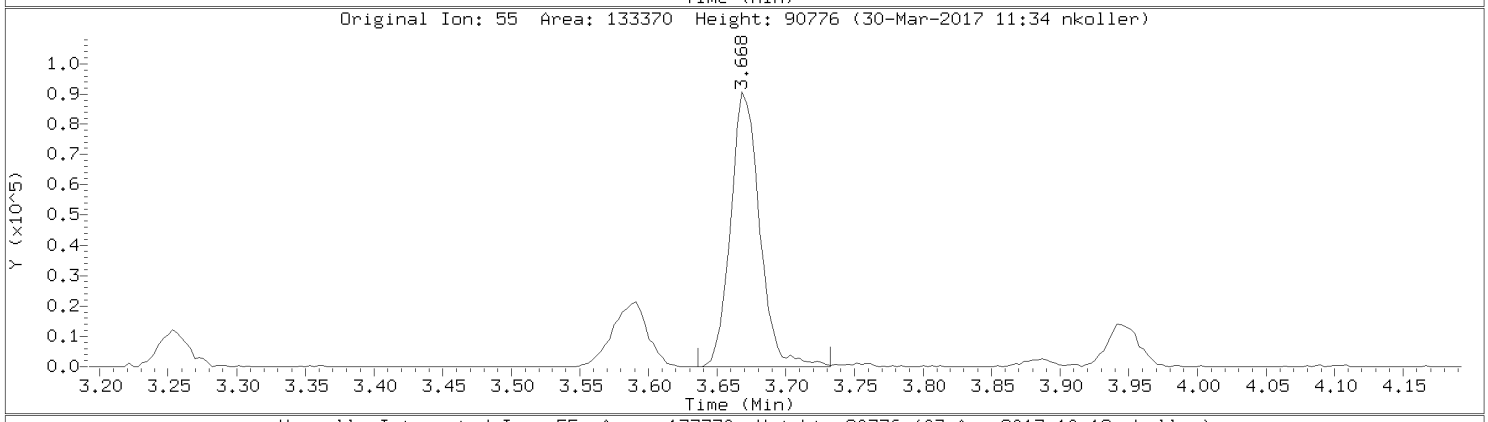


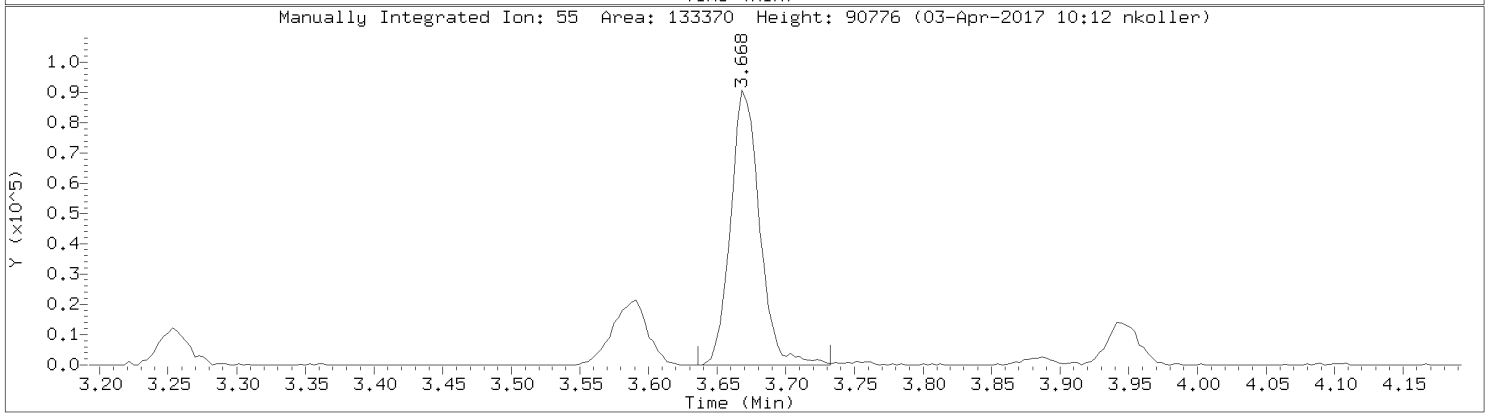
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08853.D
Injection Date: 30-MAR-2017 11:03
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: Acrolein
CAS Number: 107-02-08









Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\033117.b\09002.D
Level 02: all \\192.168.10.12\chem\10airB.i\033117.b\09003.D
Level 03: all \\192.168.10.12\chem\10airB.i\033117.b\09004.D
Level 04: all \\192.168.10.12\chem\10airB.i\033117.b\09005.D
Level 05: all \\192.168.10.12\chem\10airB.i\033117.b\09006.D
Level 06: all \\192.168.10.12\chem\10airB.i\033117.b\09007.D
Level 07: all \\192.168.10.12\chem\10airB.i\033117.b\09008.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	9586	14120	25179	36763	390962	+++++	+++++	LINR	0.00187	0.19971		0.99942
2 1,1-Difluoroethane	0.17725	0.15302	0.14778	0.15390	0.15265	0.15346	0.15413	AVRG		0.15603		6.15502
3 Chlorodifluoromethane	0.07274	0.07627	0.07634	0.06859	0.06687	0.06611	0.06422	AVRG		0.07016		7.05645
4 Propylene	0.23965	0.19858	0.19223	0.18496	0.19491	0.19034	0.18819	AVRG		0.19841		9.43279

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Dichlorodifluoromethane	0.98913	0.75991	0.73827	0.70595	0.66659	0.65283	0.65047	AVRG		0.73759		16.09772
6 Chloromethane	0.35948	0.30712	0.32857	0.31290	0.32354	0.30917	0.31872	AVRG		0.32279		5.54953
7 Dichlorotetrafluoroethane	0.65194	0.65021	0.68245	0.64812	0.62841	0.61560	0.60437	AVRG		0.64016		4.09029
8 Vinyl chloride	0.26675	0.22584	0.25230	0.24837	0.26915	0.25411	0.26056	AVRG		0.25387		5.71380
9 1,3-Butadiene	0.21597	0.17730	0.20994	0.20896	0.20658	0.19950	0.20260	AVRG		0.20298		6.15904
10 Bromomethane	0.18603	0.19750	0.19452	0.19186	0.20063	0.19518	0.19645	AVRG		0.19460		2.38700
11 Chloroethane	0.10890	0.09903	0.11455	0.10203	0.10976	0.10945	0.11239	AVRG		0.10802		5.13012

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Ethanol	0.11152	0.09083	0.09128	0.08752	0.08659	0.09076					
	0.08957						AVRG		0.09258		9.22370
13 Vinyl Bromide	0.19176	0.18154	0.19423	0.18086	0.19455	0.18748					
	0.18218						AVRG		0.18751		3.23625
14 Isopentane	0.27656	0.28019	0.28513	0.26562	0.26829	0.23858					
	0.25396						AVRG		0.26690		6.07093
15 Freon 123	0.42954	0.44870	0.48522	0.43377	0.44098	0.42897					
	0.42740						AVRG		0.44208		4.63548
16 Trichlorofluoromethane	0.48069	0.47142	0.55063	0.50869	0.51250	0.48766					
	0.48615						AVRG		0.49968		5.37503
17 Acrolein	0.08243	0.08611	0.08352	0.07709	0.09178	0.08759					
	0.08798						AVRG		0.08522		5.54104
18 Acetone	0.41680	0.36748	0.36928	0.35316	0.34719	0.32976					
	0.31507						AVRG		0.35696		9.18364

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	0.50883	0.41452	0.40899	0.39058	0.39416	0.36648	0.34675	AVRG		0.40433		12.80538
20 1,1-Dichloroethene	0.38176	0.33472	0.37327	0.35234	0.36348	0.35098	0.35042	AVRG		0.35814		4.42754
21 Acrylonitrile	0.22544	0.19419	0.18801	0.18543	0.19139	0.18192	0.16904	AVRG		0.19077		9.08144
22 Freon 113	0.48568	0.44012	0.44275	0.40854	0.39263	0.36235	0.35166	AVRG		0.41196		11.58159
23 Methyl Acetate	0.71552	0.61267	0.64292	0.59490	0.58599	0.52949	0.50586	AVRG		0.59819		11.69816
24 Tert Butyl Alcohol (TBA)	0.64205	0.51214	0.50503	0.46412	0.47782	0.42592	0.41248	AVRG		0.49137		15.48942
25 Methylene chloride	0.36169	0.29856	0.30466	0.27657	0.27195	0.24782	0.23630	AVRG		0.28536		14.62188

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Allyl Chloride	0.06306	0.05885	0.06994	0.06066	0.07884	0.07244					
	0.07033						AVRG		0.06773		10.57567
27 Carbon Disulfide	0.51369	0.41049	0.42016	0.39088	0.45714	0.44607					
	0.43871						AVRG		0.43959		9.02242
28 trans-1,2-dichloroethene	0.26365	0.17602	0.19585	0.17485	0.19292	0.18836					
	0.18393						AVRG		0.19651		15.59444
29 Methyl Tert Butyl Ether	0.62508	0.52235	0.51461	0.48834	0.49123	0.47631					
	0.46043						AVRG		0.51119		10.66134
30 Vinyl Acetate	0.74643	0.57513	0.61323	0.55805	0.64394	0.65311					
	0.64536						AVRG		0.63361		9.74995
31 1,1-Dichloroethane	0.38187	0.37848	0.40382	0.36998	0.39116	0.38403					
	0.37976						AVRG		0.38416		2.79839
33 Methyl Ethyl Ketone	0.14227	0.09919	0.10245	0.08497	0.09097	0.09292					
	0.09396						AVRG		0.10096		18.88287

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.48509	0.39926	0.38906	0.34459	0.35871	0.35275					
	0.35822						AVRG		0.38395		12.71955
35 Di-isopropyl Ether	1.04259	0.78383	0.79446	0.75290	0.76832	0.75715					
	0.74806						AVRG		0.80676		13.05713
36 Ethyl Acetate	0.66201	0.52926	0.51051	0.55730	0.50227	0.50036					
	0.49216						AVRG		0.53627		11.12532
37 cis-1,2-Dichloroethene	0.25358	0.21628	0.21838	0.20994	0.21374	0.20449					
	0.20027						AVRG		0.21667		8.07450
38 Ethyl Tert-Butyl Ether	0.89539	0.73196	0.87404	0.85649	0.71962	0.63014					
	0.58679						AVRG		0.75635		16.17786
39 Chloroform	0.40158	0.36915	0.47724	0.47656	0.42206	0.35433					
	0.33620						AVRG		0.40530		13.96721
40 Tetrahydrofuran	0.34780	0.31470	0.31625	0.29426	0.30245	0.30405					
	0.30979						AVRG		0.31276		5.50240

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.53260	0.50626	0.54263	0.52066	0.54425	0.51900					
	0.50169						AVRG		0.52387		3.19405
42 1,2-Dichloroethane	0.49317	0.43966	0.43184	0.41910	0.42978	0.40592					
	0.39240						AVRG		0.43027		7.47110
43 Benzene	0.85624	0.76039	0.77103	0.73815	0.75076	0.71804					
	0.68420						AVRG		0.75411		7.10212
44 Carbon tetrachloride	0.51942	0.49529	0.52647	0.52815	0.56994	0.53251					
	0.50787						AVRG		0.52566		4.45633
45 Cyclohexane	0.50185	0.46057	0.44377	0.42487	0.43112	0.39882					
	0.37940						AVRG		0.43434		9.26423
46 Tert Amyl Methyl Ether	+++++	1.16780	0.89032	0.77000	0.69522	0.68304					
	0.67858						AVRG		0.81416		23.46821
48 2,2,4-Trimethylpentane	1.46837	1.41037	1.47438	1.39935	1.33681	1.16908					
	1.03744						AVRG		1.32797		12.40261

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
49 Heptane	0.62607	0.48722	0.52833	0.50044	0.50170	0.49553					
	0.48688						AVRG		0.51802		9.58126
50 1,2-Dichloropropane	0.36344	0.30254	0.30792	0.29421	0.30764	0.29692					
	0.28773						AVRG		0.30863		8.18024
51 Trichloroethene	0.51439	0.40664	0.40019	0.37693	0.39184	0.37656					
	0.37266						AVRG		0.40560		12.24676
52 Methyl methacrylate	0.33591	0.28821	0.25172	0.25562	0.26325	0.25702					
	0.25641						AVRG		0.27259		11.17538
53 1,4-Dioxane	0.20242	0.20562	0.18835	0.17150	0.17929	0.17981					
	0.17442						AVRG		0.18592		7.24219
54 Bromodichloromethane	0.57695	0.47352	0.52861	0.52132	0.56734	0.53806					
	0.51321						AVRG		0.53129		6.52053
55 Methylcyclohexane	0.22096	0.20649	0.21465	0.20936	0.22020	0.21863					
	0.21747						AVRG		0.21540		2.57797

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
56 Methyl Isobutyl Ketone	0.89379	0.71999	0.71798	0.67977	0.69579	0.64439					
	0.59602						AVRG		0.70682		13.20677
57 cis-1,3-Dichloropropene	0.47325	0.35334	0.38897	0.37526	0.44920	0.44171					
	0.43577						AVRG		0.41679		10.61473
58 trans-1,3-Dichloropropene	0.35915	0.28736	0.30786	0.32601	0.42693	0.42577					
	0.42370						AVRG		0.36525		16.51051
60 1,1,2-Trichloroethane	0.42075	0.32079	0.32638	0.31292	0.32016	0.30509					
	0.29369						AVRG		0.32854		12.82158
61 Toluene	1.18974	0.99099	0.98884	0.92897	0.93756	0.89819					
	0.84965						AVRG		0.96913		11.26012
62 Methyl Butyl Ketone	1.16651	1.00490	1.00086	0.96695	1.04668	0.96444					
	0.88428						AVRG		1.00495		8.66604
63 n-Octane	1.38353	1.08574	1.20487	1.12757	1.13543	1.04869					
	0.98836						AVRG		1.13917		11.21649

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	1.03806	0.89190	0.98409	0.92966	1.03560	0.97273	0.91830	AVRG		0.96719		5.89220
65 1,2-Dibromoethane	1.03992	0.90712	0.86947	0.85029	0.91056	0.84402	0.79846	AVRG		0.88855		8.67728
66 Tetrachloroethene	1.12607	1.01774	0.89436	0.83517	0.82290	0.76780	0.73414	AVRG		0.88546		15.88182
68 Chlorobenzene	1.83073	1.39493	1.34714	1.28270	1.31219	1.24571	1.19142	AVRG		1.37212		15.50836
69 Ethyl Benzene	2.60614	2.13301	2.21595	2.08385	2.08417	1.93454	1.80868	AVRG		2.12376		11.84220
70 m&p-Xylene	2.00267	1.66128	1.72051	1.59824	1.59176	1.39656	1.26180	AVRG		1.60469		14.74937
71 n-Nonane	1.23894	1.04699	1.12747	1.07625	1.08032	0.91837	0.81847	AVRG		1.04383		13.20448

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
72 Bromoform	0.69102	0.61624	0.68269	0.69847	0.86633	0.80497						
							0.74461	AVRG		0.72919		11.48850
73 Styrene	1.44260	1.21671	1.21185	1.14613	1.23834	1.13069						
							1.06106	AVRG		1.20677		10.00333
74 o-Xylene	2.10126	1.74923	1.75058	1.62998	1.62389	1.47944						
							1.37235	AVRG		1.67239		13.96668
75 1,1,2,2-Tetrachloroethane	1.11736	0.89826	0.94568	0.91728	0.97325	0.89950						
							0.85972	AVRG		0.94443		8.94271
76 Isopropylbenzene	3.15193	2.40126	2.32414	2.23629	2.29537	2.05830						
							1.90989	AVRG		2.33960		16.92089
77 N-Propylbenzene	2.75833	2.21278	2.34820	2.36798	2.61832	2.37311						
							2.21124	AVRG		2.41285		8.46032
78 4-Ethyltoluene	2.16228	1.87361	2.01140	2.01331	2.23814	2.05884						
							1.91419	AVRG		2.03882		6.31949

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	2.24148	1.71184	1.82902	1.74650	1.89644	1.70591					
	1.59271						AVRG		1.81770		11.56868
80 n-Decane	0.65430	0.57066	0.53781	0.56067	0.72355	0.70367					
	0.68629						AVRG		0.63385		11.99128
81 Tert-Butyl Benzene	2.37503	1.89982	1.93870	1.85826	1.95654	1.72116					
	1.58174						AVRG		1.90446		12.95480
82 1,2,4-Trimethylbenzene	1.98459	1.55211	1.66666	1.60674	1.75199	1.51551					
	1.37699						AVRG		1.63637		11.84463
83 1,3-Dichlorobenzene	1.13516	0.82407	0.87521	0.89534	1.09168	1.00951					
	0.94551						AVRG		0.96807		11.93331
84 Sec- Butylbenzene	2.95903	2.33362	2.38580	2.34061	2.48521	2.13638					
	1.92918						AVRG		2.36712		13.48660
86 Benzyl Chloride	5209	7332	21586	50393	1234809	2654134					
	3922939						LINR	-0.02604	1.07658		0.99955

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
87 1,4-Dichlorobenzene	0.97852	0.79813	0.79423	0.87110	1.09023	1.02812	0.99145	AVRG		0.93597		12.37351
88 p-Isopropyltoluene	2.40350	1.89905	1.94720	1.89965	2.12910	1.90336	1.77572	AVRG		1.99394		10.47836
89 1,2,3-Trimethylbenzene	1.92097	1.64433	1.61967	1.53804	1.72283	1.53916	1.41823	AVRG		1.62903		9.87089
90 1,2-Dichlorobenzene	0.94764	0.77701	0.84427	0.80607	1.03674	0.98505	0.94374	AVRG		0.90579		10.75413
91 N-Butylbenzene	1.39382	1.15307	1.35009	1.31627	1.69259	1.55998	1.46443	AVRG		1.41861		12.32582
92 1,2-Dibromo-3-Chloropropane	1867	3780	10751	24950	423435	898432	1374980	LINR	-0.00858	0.37287		0.99987
93 1,2,4-Trichlorobenzene	995	1140	5571	12694	349267	829633	1338595	QUAD	-0.00899	0.28745	0.02595	0.99976

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
94 Naphthalene	3517	5345	18445	48803	976344	2179418						
							3430223	LINR	-0.03710	0.92494		0.99896
95 Hexachlorobutadiene	4811	8239	20899	37073	439951	855441						
							1268941	LINR	0.00473	0.34472		0.99913
$ 32 Hexane-d14(S)	0.38927	0.37653	0.36979	0.36033	0.37495	0.38393						
							0.38599	AVRG		0.37726		2.67982
$ 59 Toluene-d8 (S)	0.82217	0.80126	0.81670	0.82089	0.84586	0.86576						
							0.89211	AVRG		0.83782		3.80768
$ 85 1,4-dichlorobenzene-d4 (S)	0.37665	0.36324	0.39535	0.42624	0.51851	0.52293						
							0.56004	AVRG		0.45185		17.74062

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Average %RSD Results.	
Calculated Average %RSD =	10.04022
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09002.D
Report Date: 01-Apr-2017 11:57

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033117.b\09002.D
Lab Smp Id: CAL1
Inj Date : 31-MAR-2017 15:41
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Meth Date : 01-Apr-2017 11:57 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.954	2.954	(0.528)	9586	0.10000	0.163
2	1,1-Difluoroethane	65	3.025	3.025	(0.540)	3309	0.10000	0.114(Q)
3	Chlorodifluoromethane	67	3.047	3.047	(0.544)	1358	0.10000	0.104(Q)
4	Propylene	41	3.034	3.034	(0.542)	4474	0.10000	0.121
5	Dichlorodifluoromethane	85	3.066	3.066	(0.548)	18466	0.10000	0.134
6	Chloromethane	50	3.166	3.166	(0.566)	6711	0.10000	0.111
7	Dichlorotetrafluoroethane	85	3.173	3.173	(0.567)	12171	0.10000	0.102
8	Vinyl chloride	62	3.240	3.240	(0.579)	4980	0.10000	0.105
9	1,3-Butadiene	54	3.275	3.275	(0.585)	4032	0.10000	0.106
10	Bromomethane	94	3.410	3.410	(0.609)	3473	0.10000	0.0956
11	Chloroethane	64	3.459	3.459	(0.618)	2033	0.10000	0.101(M)
12	Ethanol	45	3.552	3.552	(0.635)	10410	0.50000	0.602(M)
13	Vinyl Bromide	106	3.571	3.571	(0.638)	3580	0.10000	0.102
14	Isopentane	43	3.587	3.587	(0.641)	5163	0.10000	0.104(H)
15	Freon 123	83	3.597	3.597	(0.643)	8019	0.10000	0.0972(M)
16	Trichlorofluoromethane	101	3.661	3.661	(0.654)	8974	0.10000	0.0962
17	Acrolein	56	3.687	3.687	(0.659)	3847	0.25000	0.242
18	Acetone	43	3.735	3.735	(0.667)	38906	0.50000	0.584(H)
19	Isopropyl Alcohol	45	3.774	3.774	(0.674)	47496	0.50000	0.629(M)
20	1,1-Dichloroethene	61	3.899	3.899	(0.697)	7127	0.10000	0.107
21	Acrylonitrile	53	3.918	3.918	(0.700)	10522	0.25000	0.295(H)
22	Freon 113	101	3.938	3.938	(0.704)	9067	0.10000	0.118
23	Methyl Acetate	43	3.964	3.964	(0.708)	13358	0.10000	0.120(Q)

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09002.D
Report Date: 01-Apr-2017 11:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.973	3.973	(0.710)	29966	0.25000	0.327(M)
	25 Methylene chloride	49	3.989	3.989	(0.713)	33762	0.50000	0.634
	26 Allyl Chloride	76	3.999	3.999	(0.715)	2943	0.25000	0.233(QM)
	27 Carbon Disulfide	76	4.108	4.108	(0.734)	9590	0.10000	0.117
	28 trans-1,2-dichloroethene	96	4.250	4.250	(0.759)	4922	0.10000	0.134
	29 Methyl Tert Butyl Ether	73	4.324	4.324	(0.773)	29174	0.25000	0.306(M)
	30 Vinyl Acetate	43	4.378	4.378	(0.782)	13935	0.10000	0.118(H)
	31 1,1-Dichloroethane	63	4.382	4.382	(0.783)	7129	0.10000	0.0994(M)
$	32 Hexane-d14(S)	66	4.481	4.481	(0.801)	726722	10.0000	10.3
	33 Methyl Ethyl Ketone	72	4.562	4.562	(0.815)	2656	0.10000	0.141(Q)
	34 n-Hexane	57	4.581	4.581	(0.818)	9056	0.10000	0.126(QM)
	35 Di-isopropyl Ether	45	4.603	4.603	(0.823)	19464	0.10000	0.129
	36 Ethyl Acetate	43	4.726	4.726	(0.844)	12359	0.10000	0.123(M)
	37 cis-1,2-Dichloroethene	96	4.703	4.703	(0.840)	4734	0.10000	0.117
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.863)	41790	0.25000	0.296
	39 Chloroform	83	4.816	4.816	(0.860)	7497	0.10000	0.0991
	40 Tetrahydrofuran	42	5.021	5.021	(0.897)	6493	0.10000	0.111
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	9943	0.10000	0.102
	42 1,2-Dichloroethane	62	5.221	5.221	(0.933)	9207	0.10000	0.115
	43 Benzene	78	5.449	5.449	(0.974)	15985	0.10000	0.114
	44 Carbon tetrachloride	117	5.471	5.471	(0.978)	9697	0.10000	0.0988
	45 Cyclohexane	56	5.481	5.481	(0.979)	9369	0.10000	0.116(M)
	46 Tert Amyl Methyl Ether	73	5.616	5.616	(1.003)	33493	0.10000	0.220(QM)
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1866886	10.0000	
	48 2,2,4-Trimethylpentane	57	5.758	5.758	(1.029)	68532	0.25000	0.276(H)
	49 Heptane	43	5.877	5.877	(1.050)	11688	0.10000	0.121
	50 1,2-Dichloropropane	63	5.954	5.954	(1.064)	6785	0.10000	0.118
	51 Trichloroethene	130	5.970	5.970	(1.067)	9603	0.10000	0.127
	52 Methyl methacrylate	69	6.044	6.044	(1.080)	6271	0.10000	0.123(H)
	53 1,4-Dioxane	88	6.102	6.102	(1.090)	3779	0.10000	0.109
	54 Bromodichloromethane	83	6.070	6.070	(1.084)	10771	0.10000	0.109
	55 Methylcyclohexane	98	6.417	6.417	(1.146)	4125	0.10000	0.103
	56 Methyl Isobutyl Ketone	43	6.542	6.542	(1.169)	41715	0.25000	0.316
	57 cis-1,3-Dichloropropene	75	6.578	6.578	(1.175)	8835	0.10000	0.114(M)
	58 trans-1,3-Dichloropropene	75	6.973	6.973	(1.246)	6705	0.10000	0.0983(H)
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	1534889	10.0000	9.81(H)
	60 1,1,2-Trichloroethane	97	7.131	7.131	(1.274)	7855	0.10000	0.128
	61 Toluene	91	7.140	7.140	(1.276)	22211	0.10000	0.123
	62 Methyl Butyl Ketone	43	7.385	7.385	(0.855)	31445	0.25000	0.290
	63 n-Octane	43	7.568	7.568	(0.876)	14918	0.10000	0.121
	64 Dibromochloromethane	129	7.671	7.671	(0.888)	11193	0.10000	0.107
	65 1,2-Dibromoethane	107	7.899	7.899	(0.915)	11213	0.10000	0.117
	66 Tetrachloroethene	166	7.976	7.976	(0.924)	12142	0.10000	0.127
*	67 Chlorobenzene - d5	117	8.635	8.635	(1.000)	1078260	10.0000	
	68 Chlorobenzene	112	8.680	8.680	(1.005)	19740	0.10000	0.133
	69 Ethyl Benzene	91	8.928	8.928	(1.034)	28101	0.10000	0.123
	70 m&p-Xylene	91	9.069	9.069	(1.050)	43188	0.20000	0.250
	71 n-Nonane	43	9.465	9.465	(1.096)	13359	0.10000	0.119
	72 Bromoform	173	9.475	9.475	(1.097)	7451	0.10000	0.0948(M)
	73 Styrene	104	9.500	9.500	(1.100)	15555	0.10000	0.120
	74 o-Xylene	91	9.571	9.571	(1.108)	22657	0.10000	0.126
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	12048	0.10000	0.118
	76 Isopropylbenzene	105	10.156	10.156	(1.176)	33986	0.10000	0.135(M)
	77 N-Propylbenzene	91	10.735	10.735	(1.243)	29742	0.10000	0.114

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09002.D
Report Date: 01-Apr-2017 11:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.905	10.905	(1.263)	23315	0.10000	0.106
79	1,3,5-Trimethylbenzene	105	10.995	10.995	(1.273)	24169	0.10000	0.123(H)
80	n-Decane	57	11.375	11.375	(2.032)	12215	0.10000	0.103
81	Tert-Butyl Benzene	119	11.494	11.494	(1.331)	25609	0.10000	0.125(M)
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.333)	21399	0.10000	0.121
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.366)	12240	0.10000	0.117
84	Sec- Butylbenzene	105	11.802	11.802	(1.367)	31906	0.10000	0.125
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.847	(1.372)	406127	10.0000	8.34
86	Benzyl Chloride	91	11.860	11.860	(1.373)	5209	0.10000	0.287
87	1,4-Dichlorobenzene	146	11.883	11.883	(1.376)	10551	0.10000	0.105
88	p-Isopropyltoluene	119	11.982	11.982	(1.388)	25916	0.10000	0.121
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	20713	0.10000	0.118
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.422)	10218	0.10000	0.105
91	N-Butylbenzene	91	12.462	12.462	(1.443)	15029	0.10000	0.0983
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	1867	0.10000	0.277(Q)
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.625)	995	0.10000	0.344(QM)
94	Naphthalene	128	14.169	14.169	(1.641)	3517	0.10000	0.436
95	Hexachlorobutadiene	225	14.416	14.416	(1.669)	4811	0.10000	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09002.D
Report Date: 01-Apr-2017 11:57

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09002.D
Lab Smp Id: CAL1
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Misc Info:

Calibration Date: 31-MAR-2017
Calibration Time: 17:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

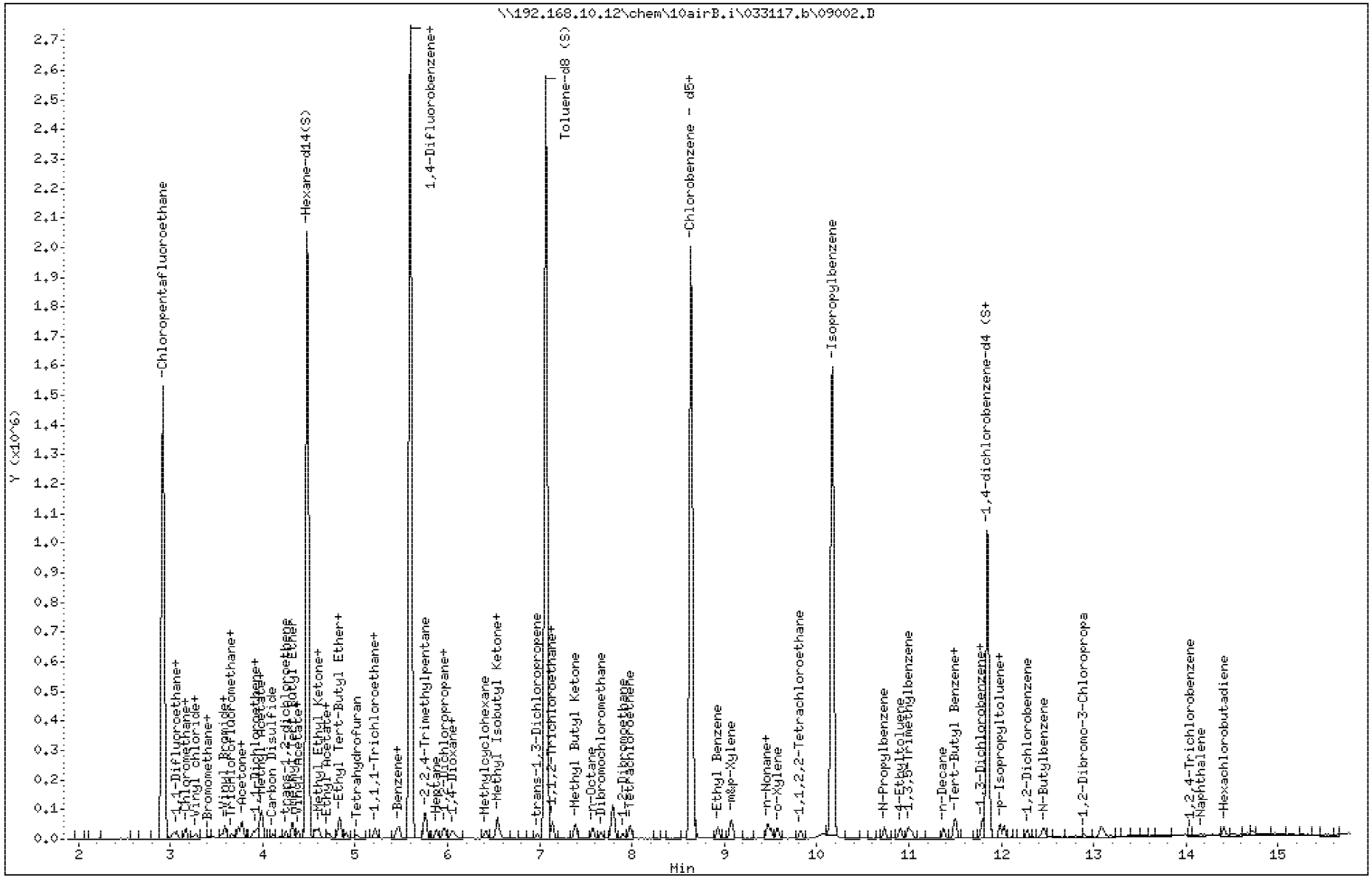
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1866886	-3.61
67 Chlorobenzene - d	1173864	704318	1643410	1078260	-8.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

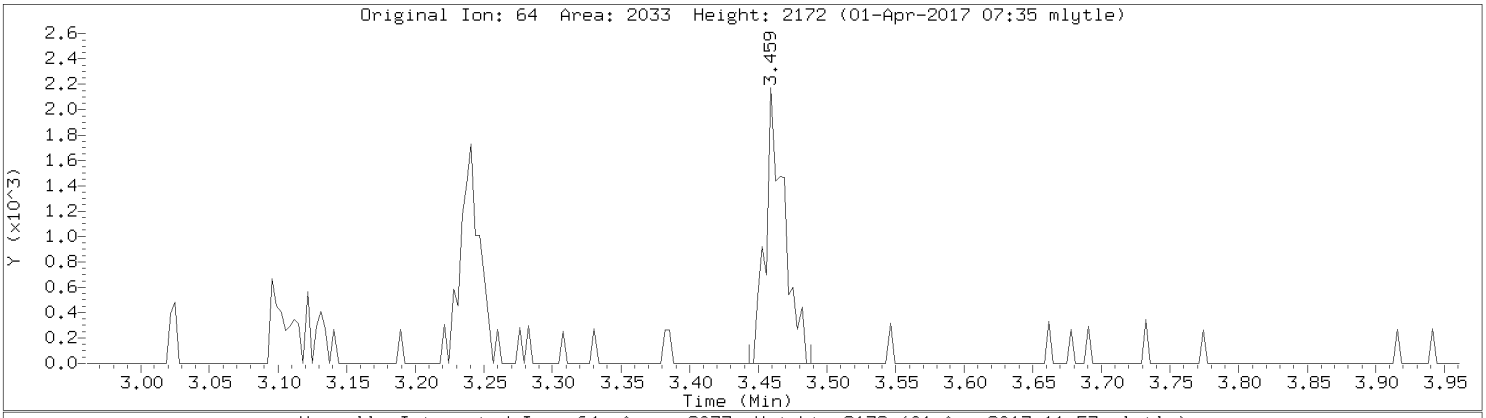
Data File: \\192.168.10.12\chem\10airB.i\033117.b\09002.D
Date : 31-MAR-2017 15:41
Client ID:
Sample Info:

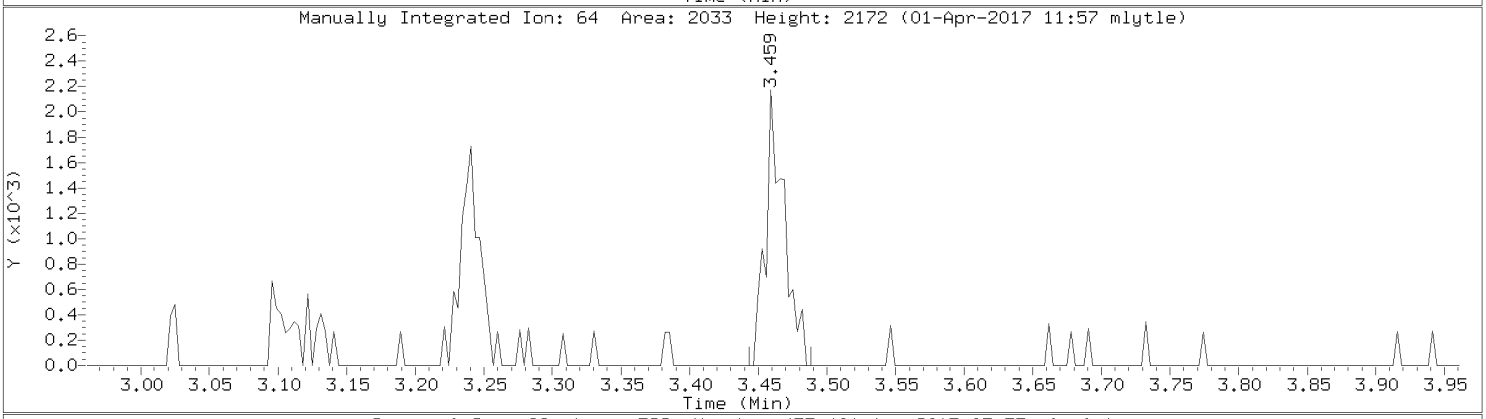
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

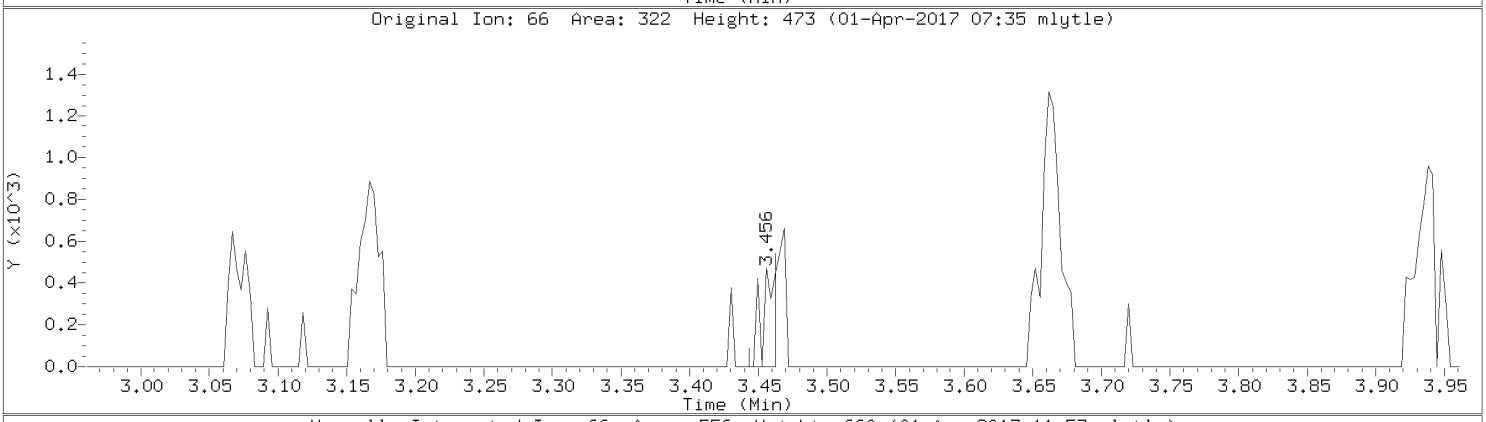


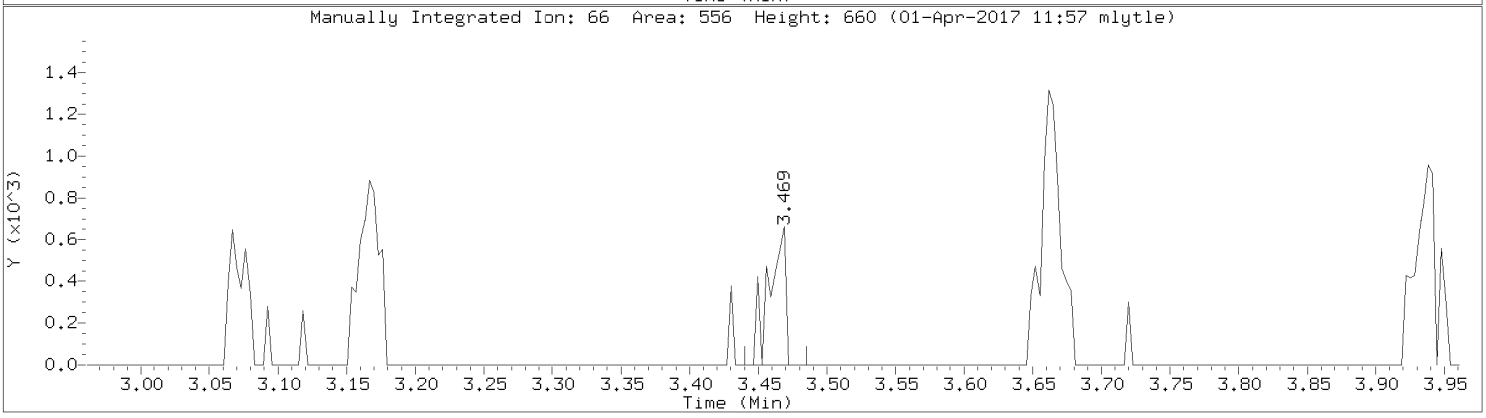
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Chloroethane
CAS Number: 75-00-3



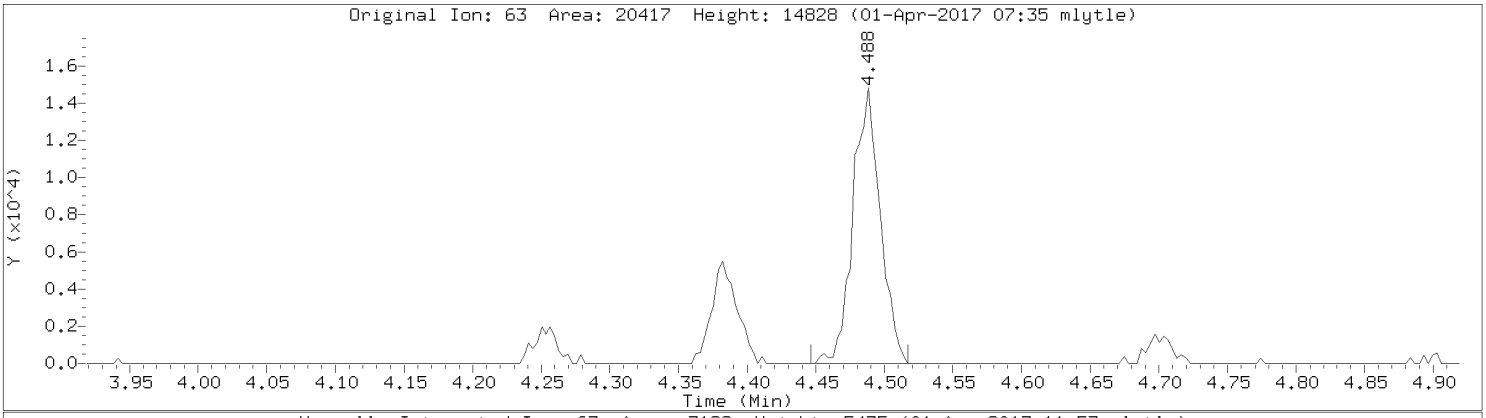


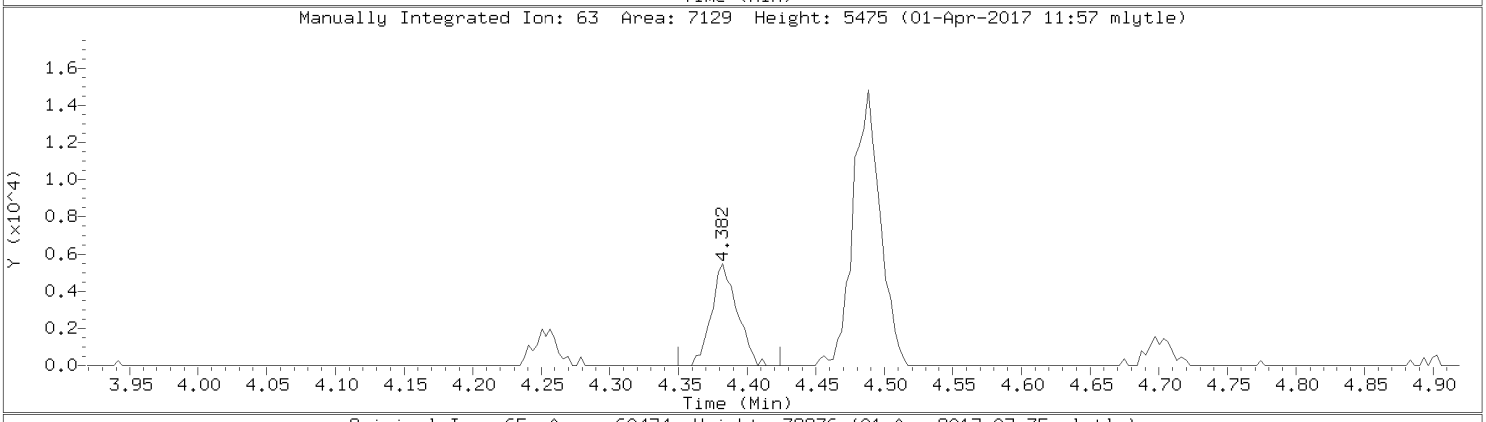


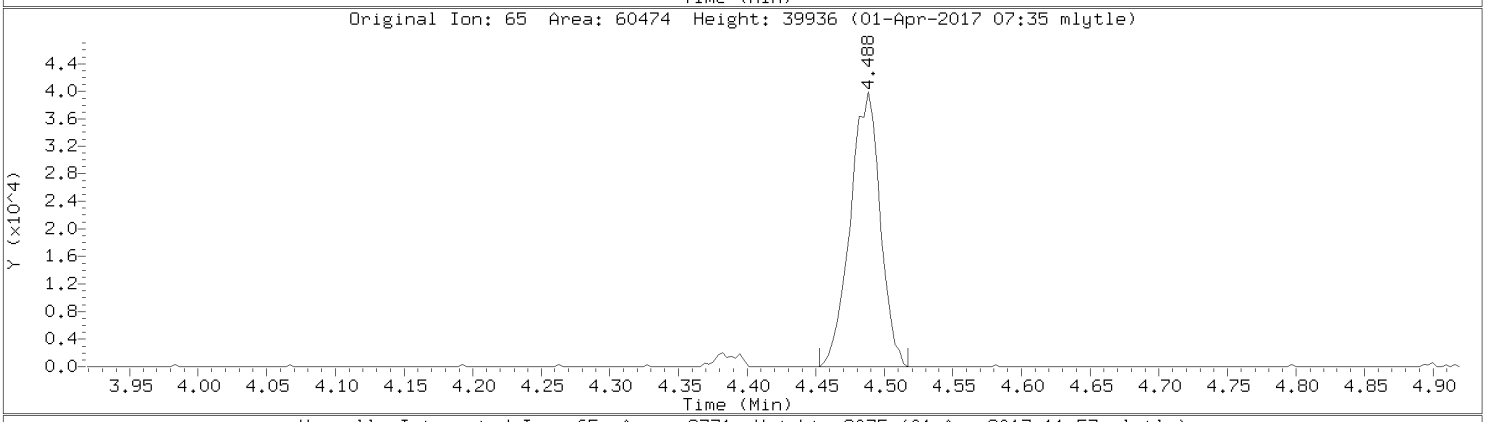


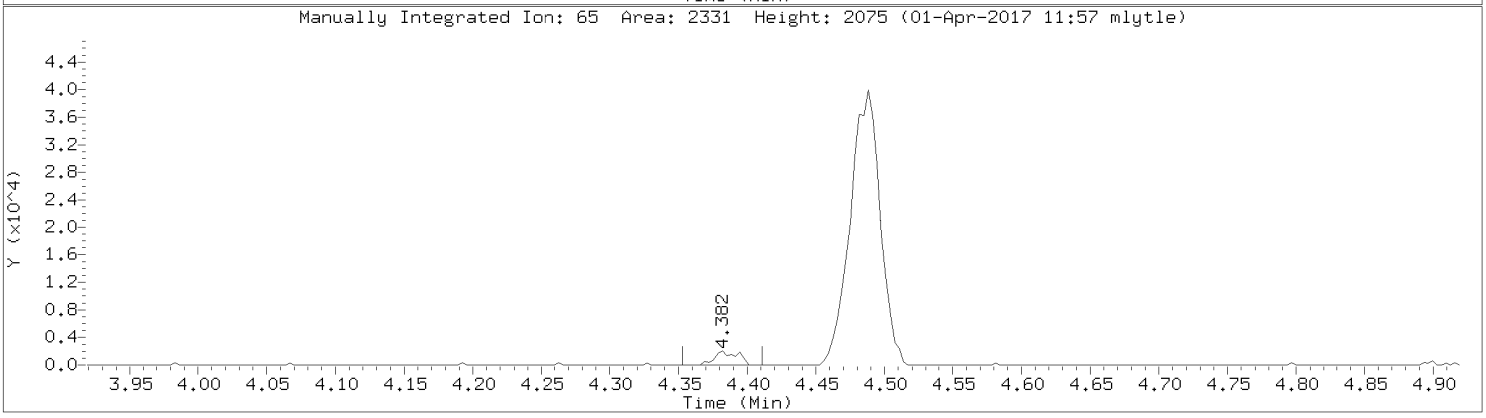
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: 1,1-Dichloroethane
CAS Number: 75-34-3



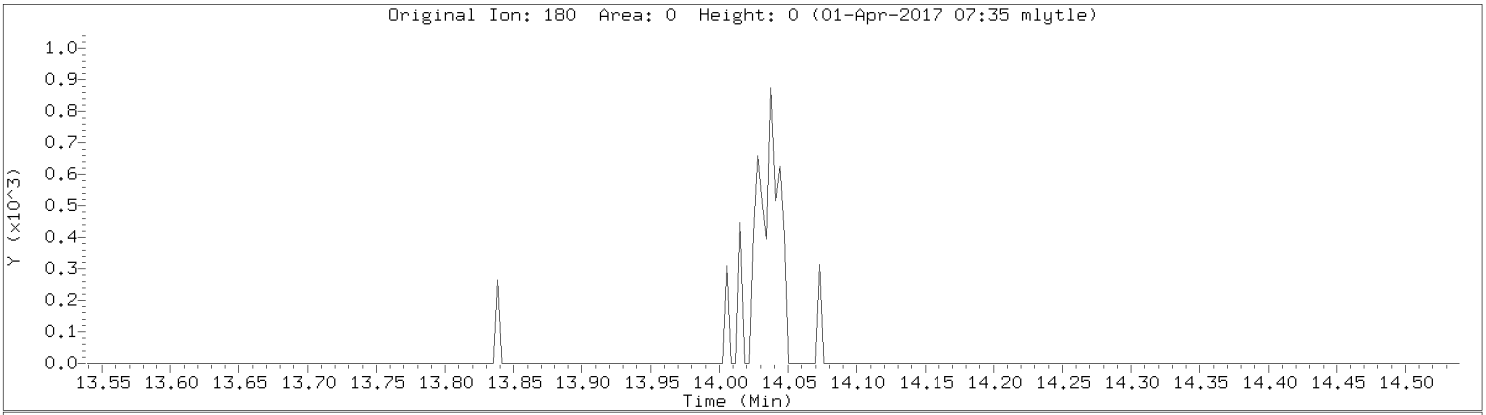


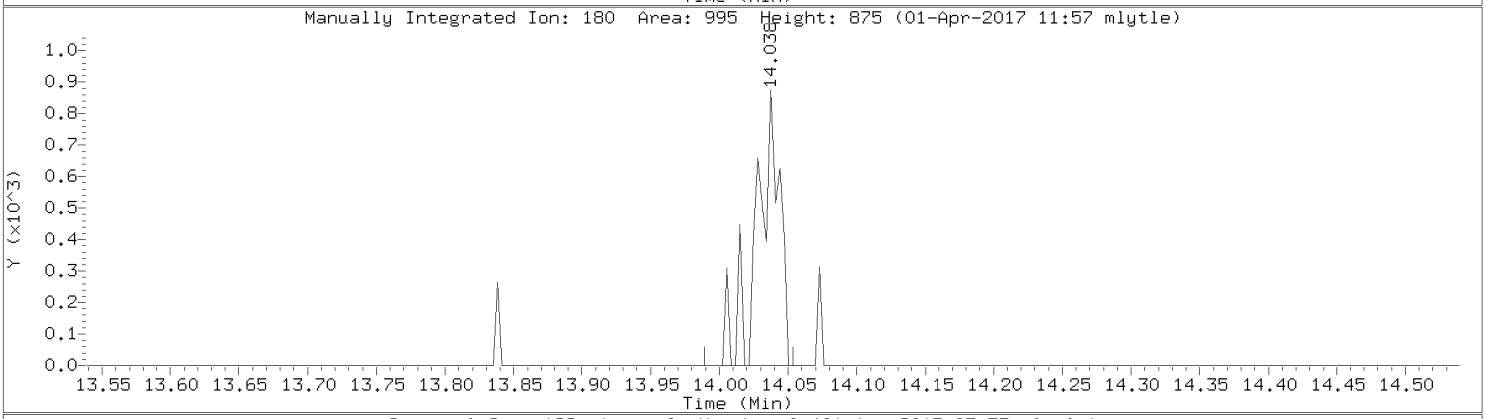


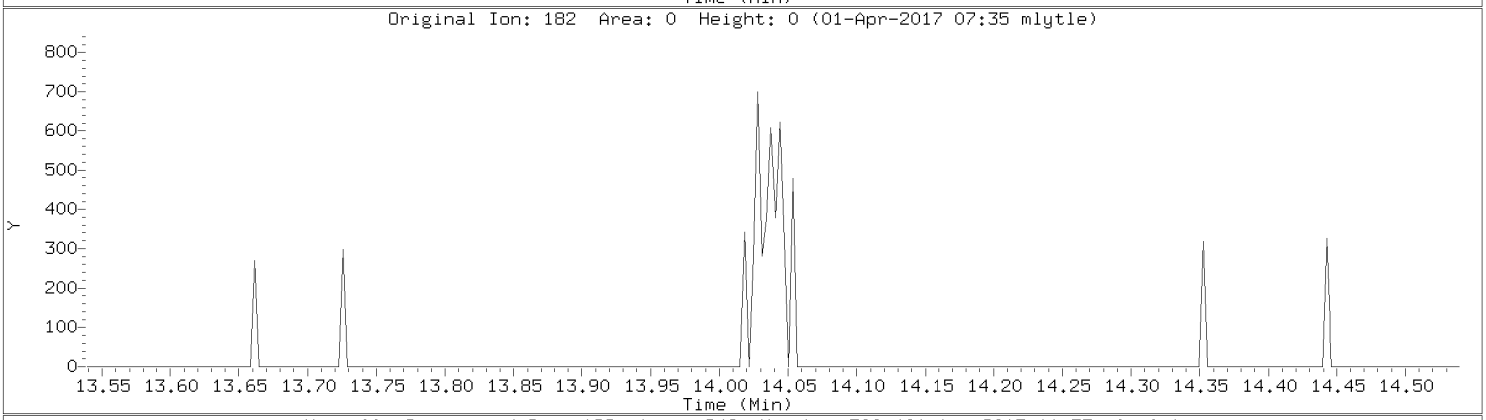


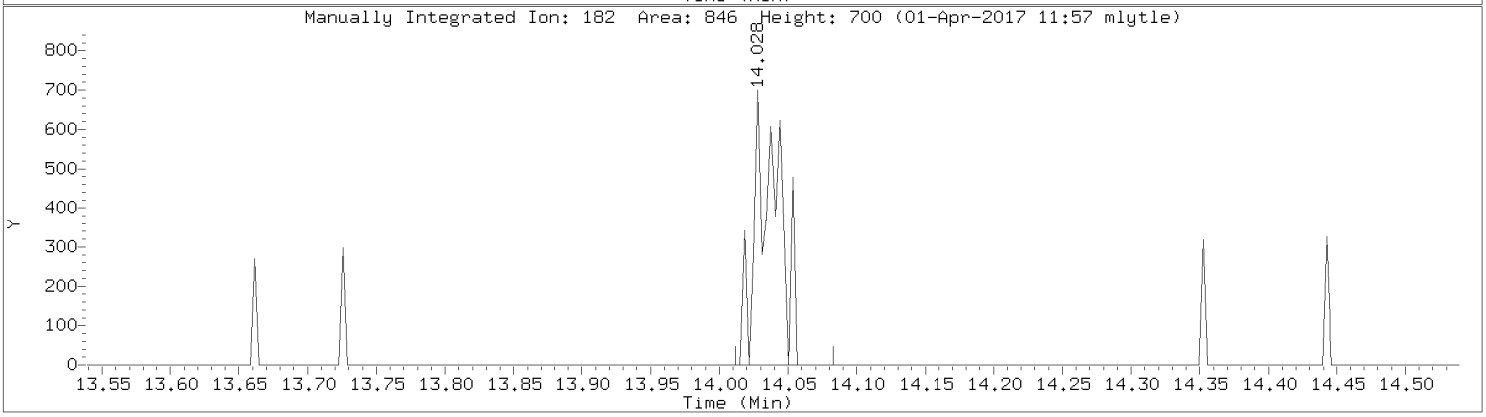
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

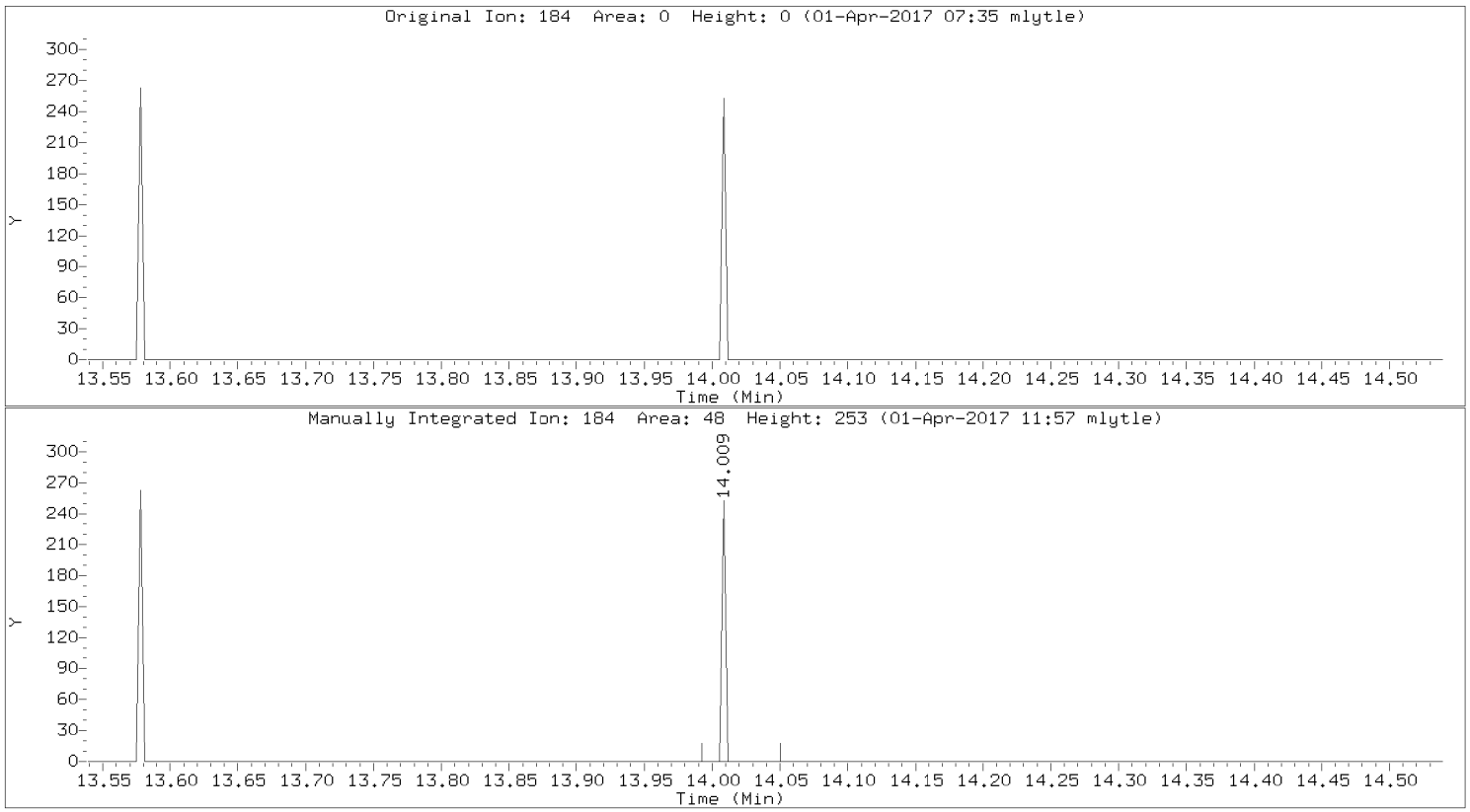






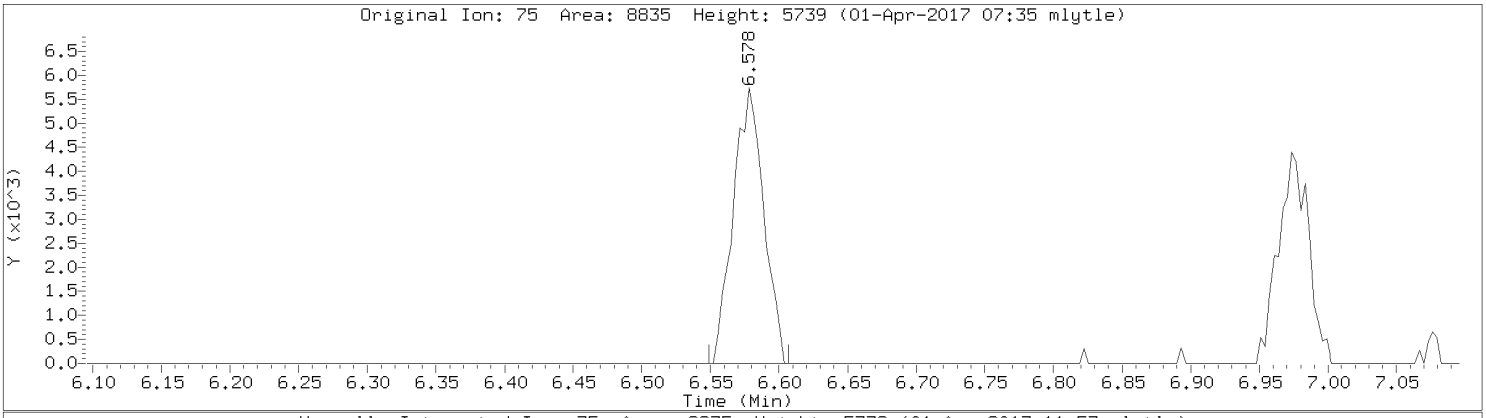


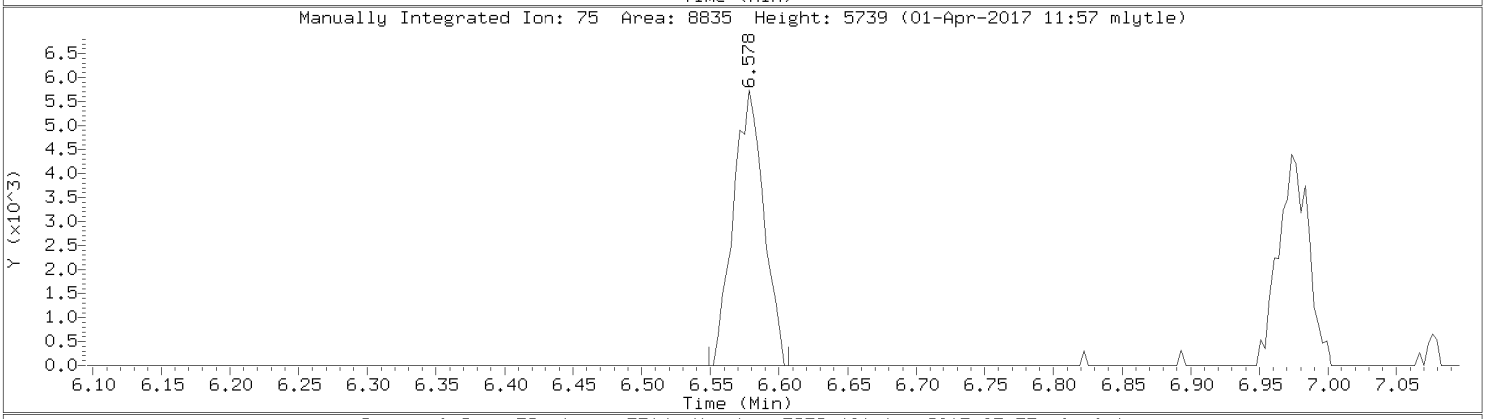
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

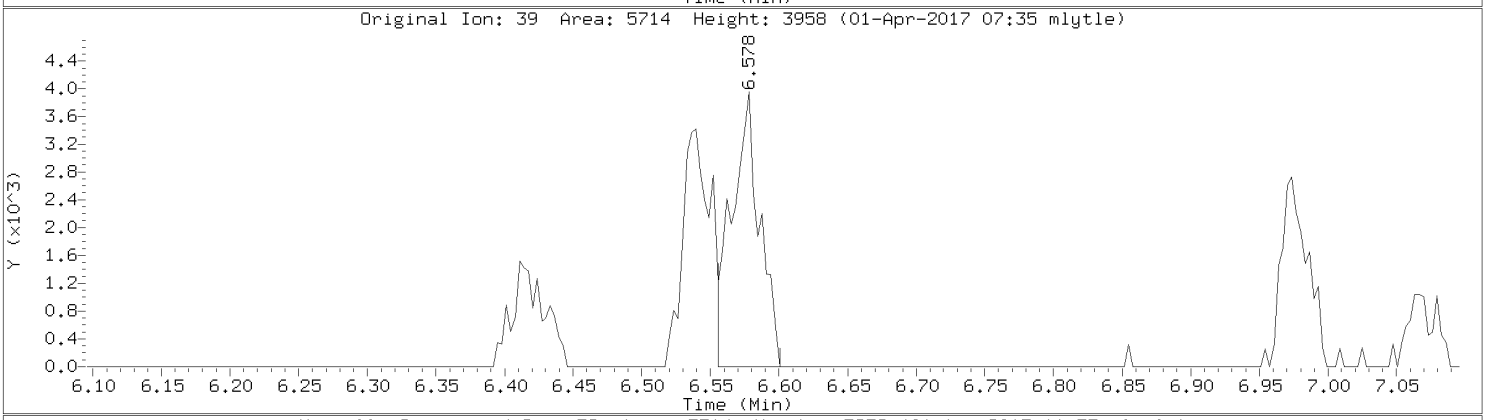


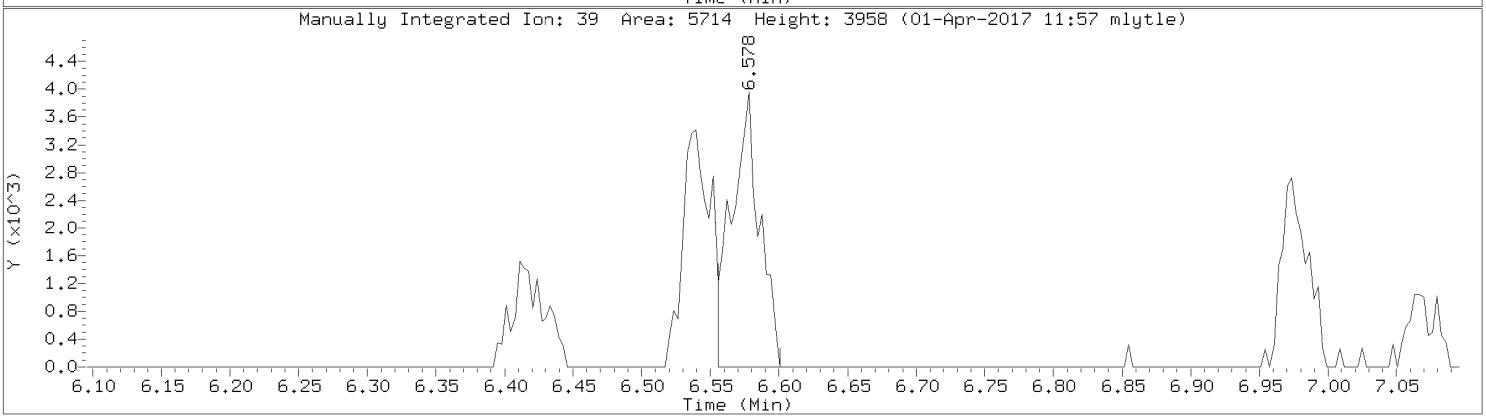
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: cis-1,3-Dichloropropene
CAS Number: 10061-01-5

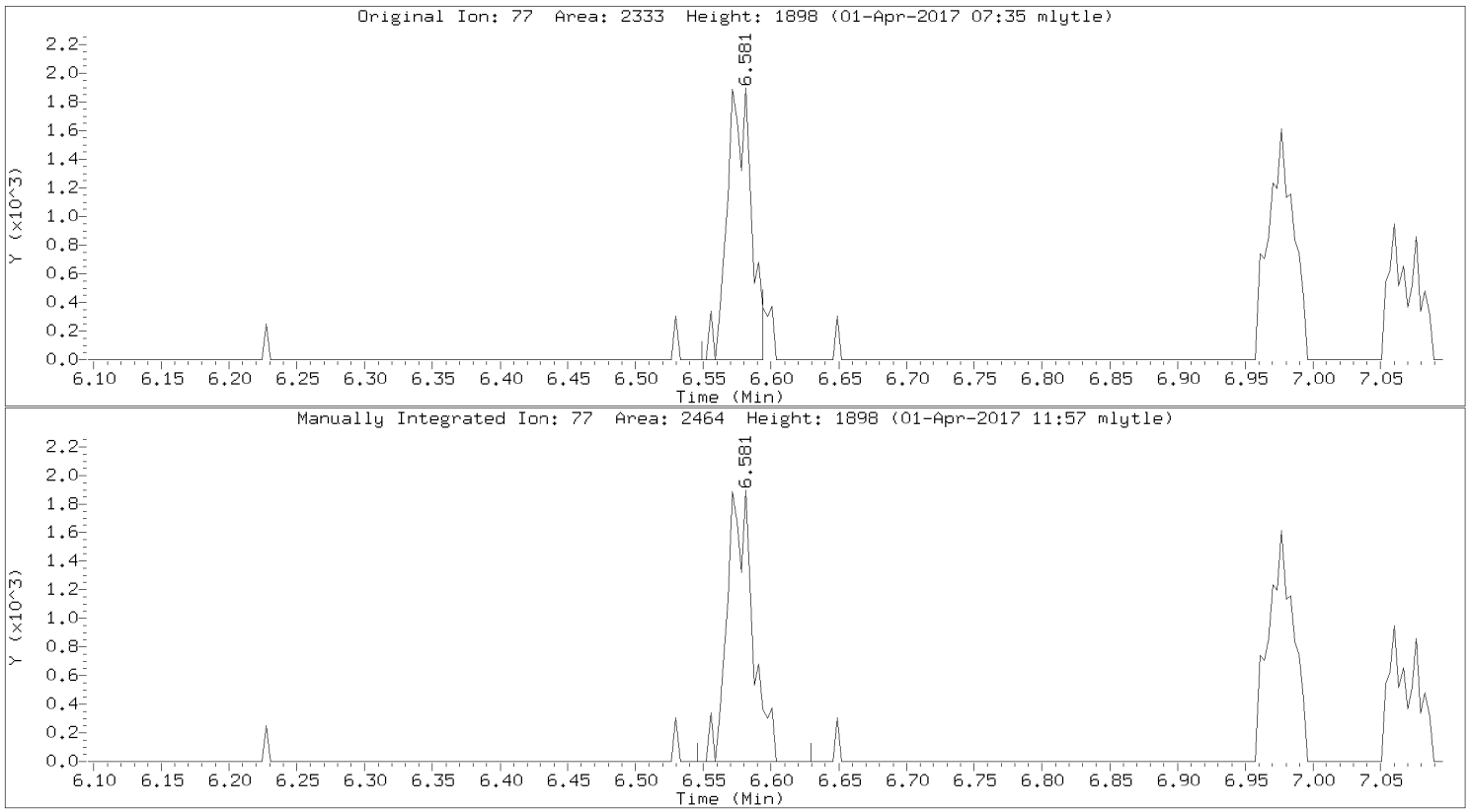






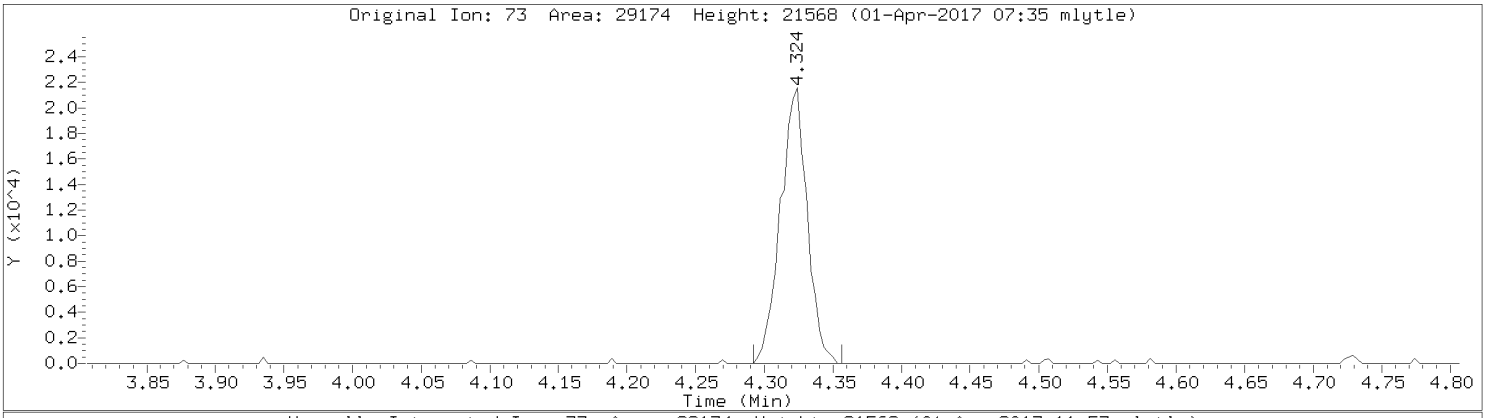


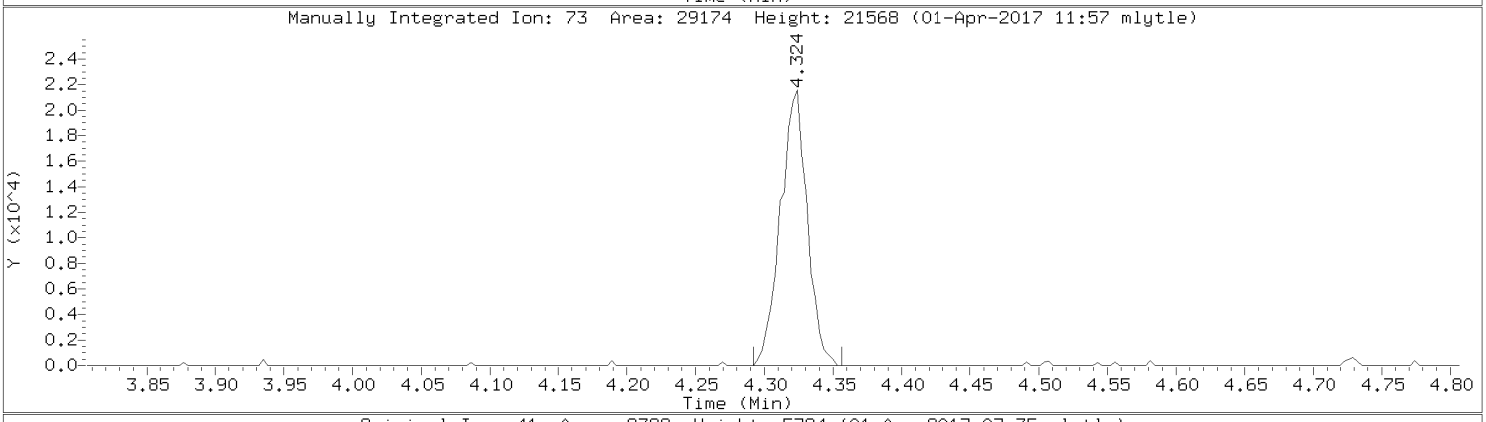
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

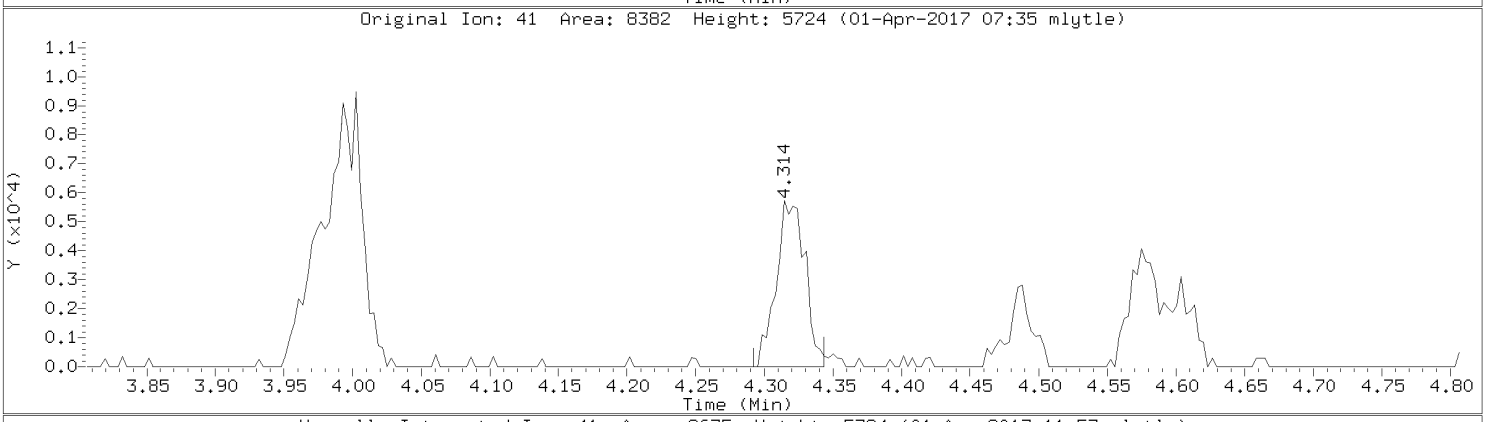


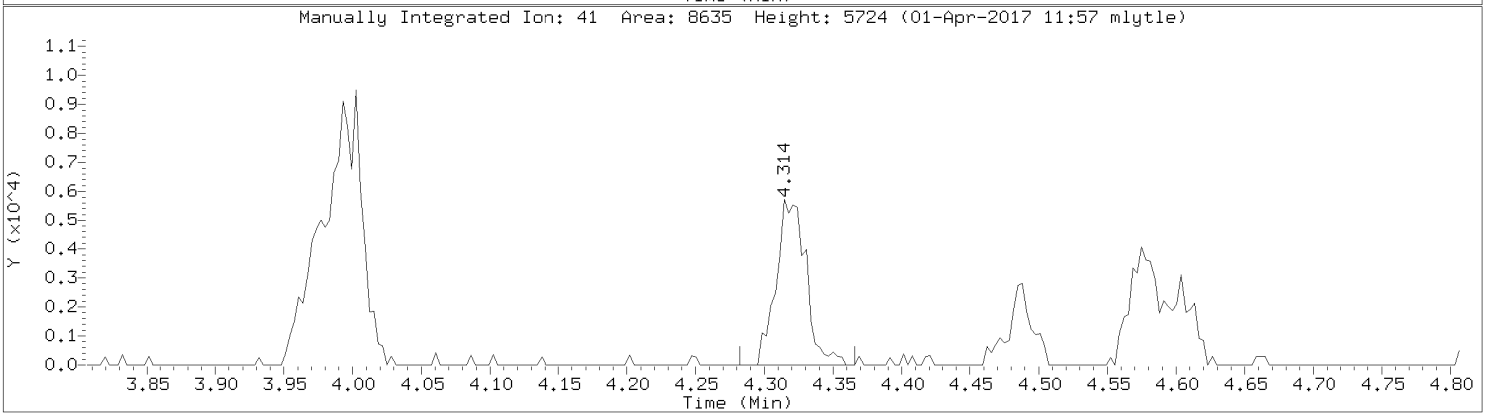
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4



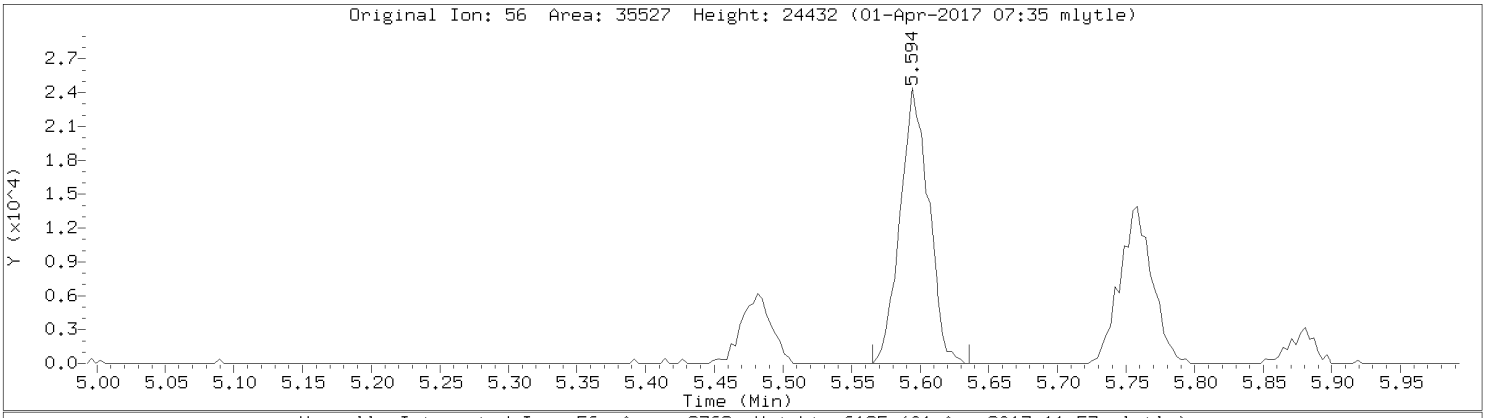


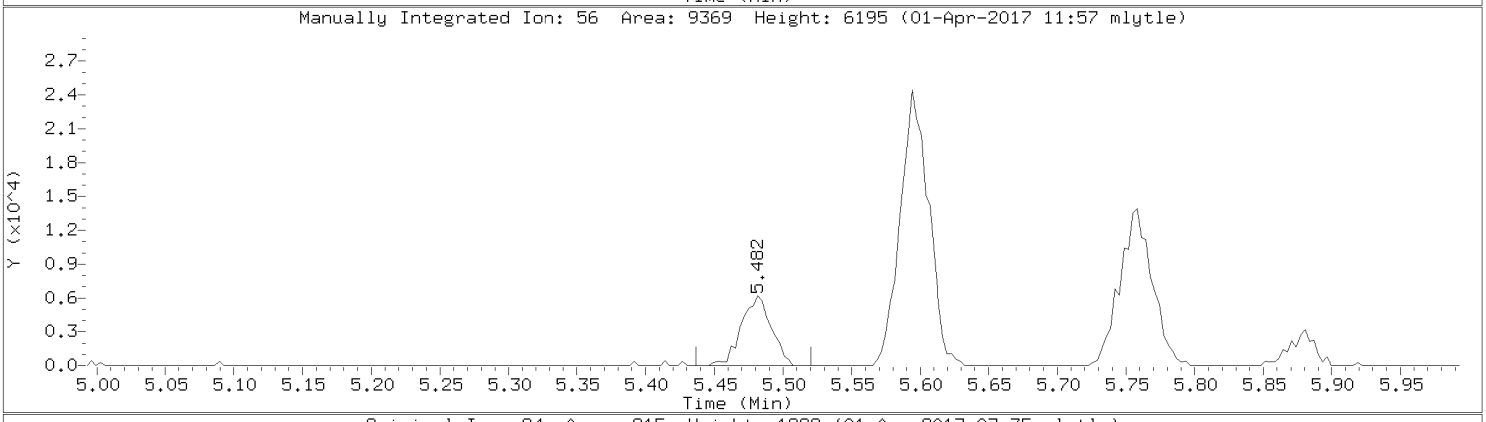


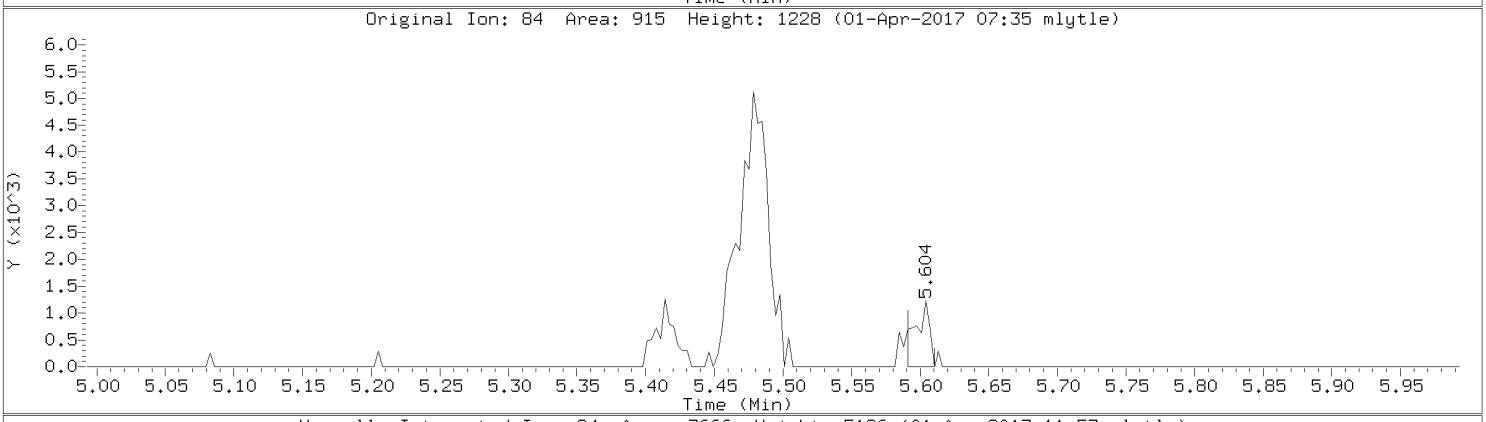


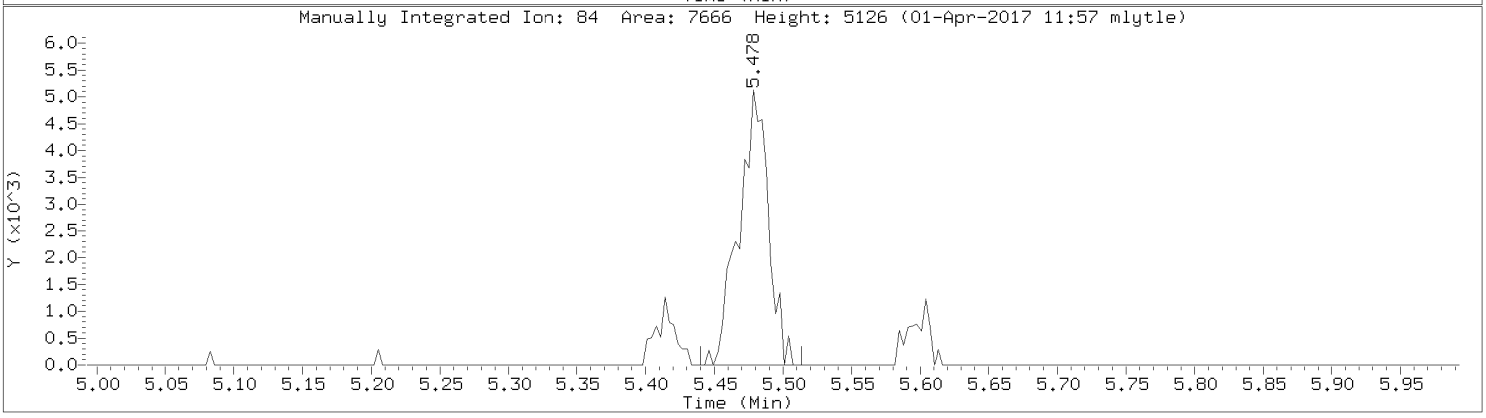
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Cyclohexane
CAS Number: 110-82-7

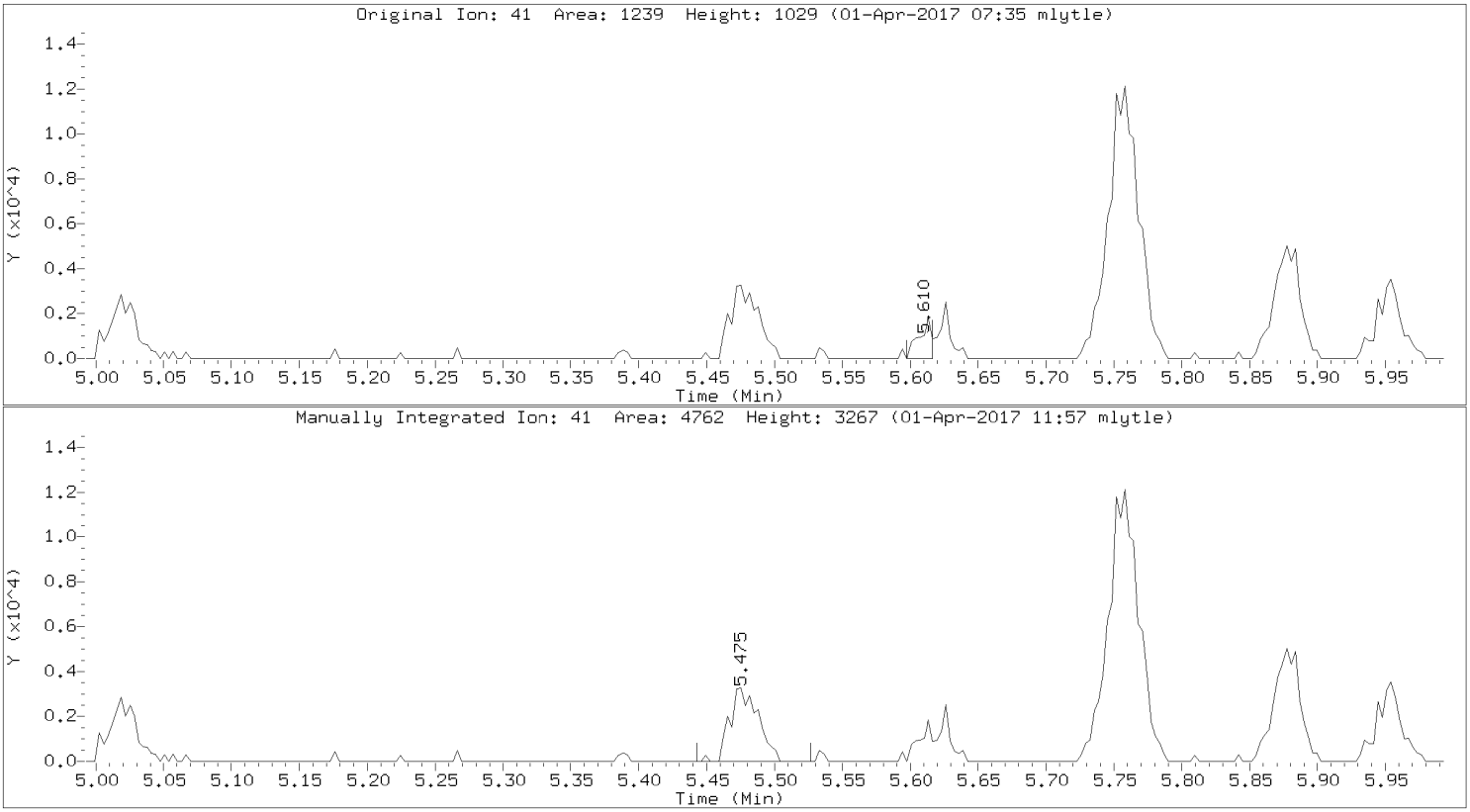






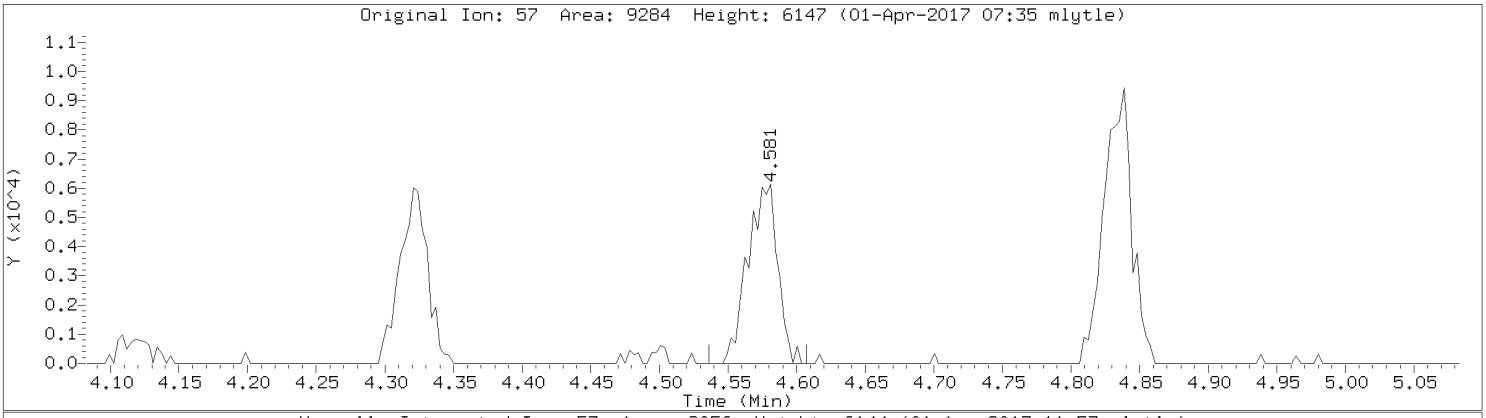


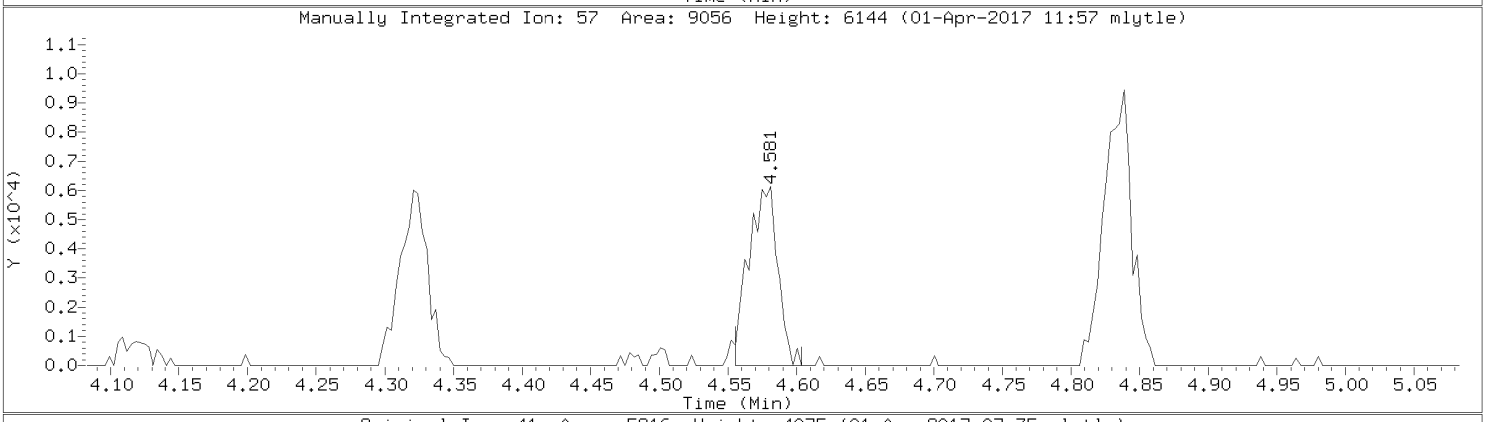
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

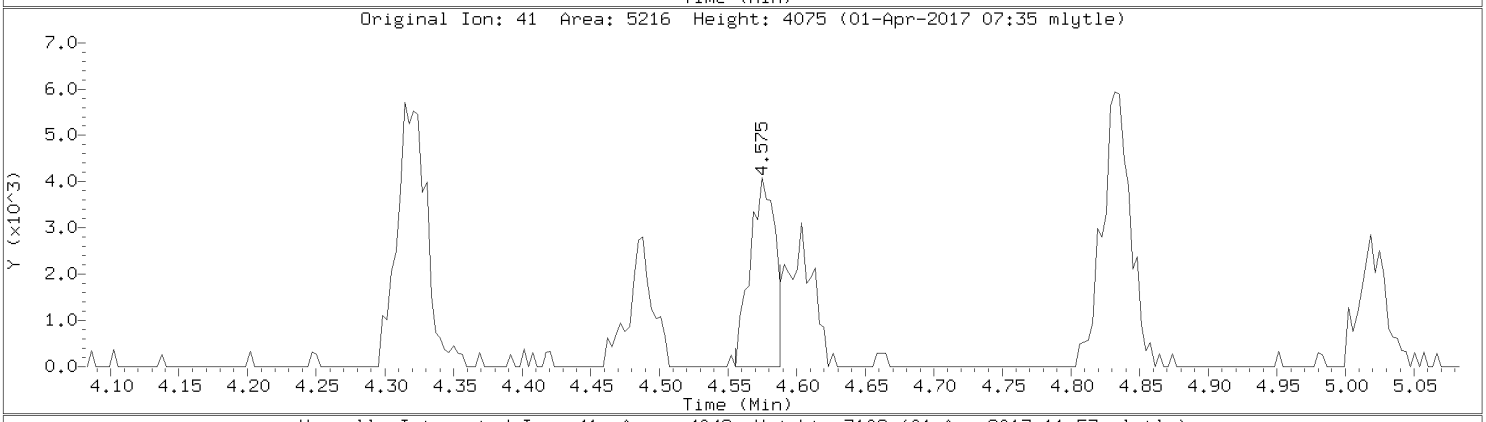


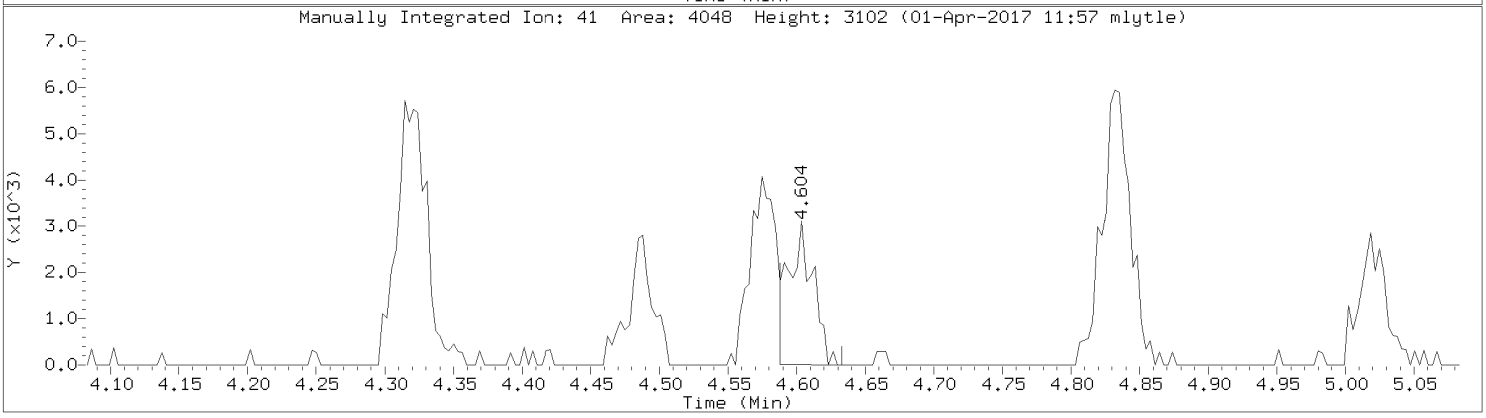
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: n-Hexane
CAS Number: 110-54-3

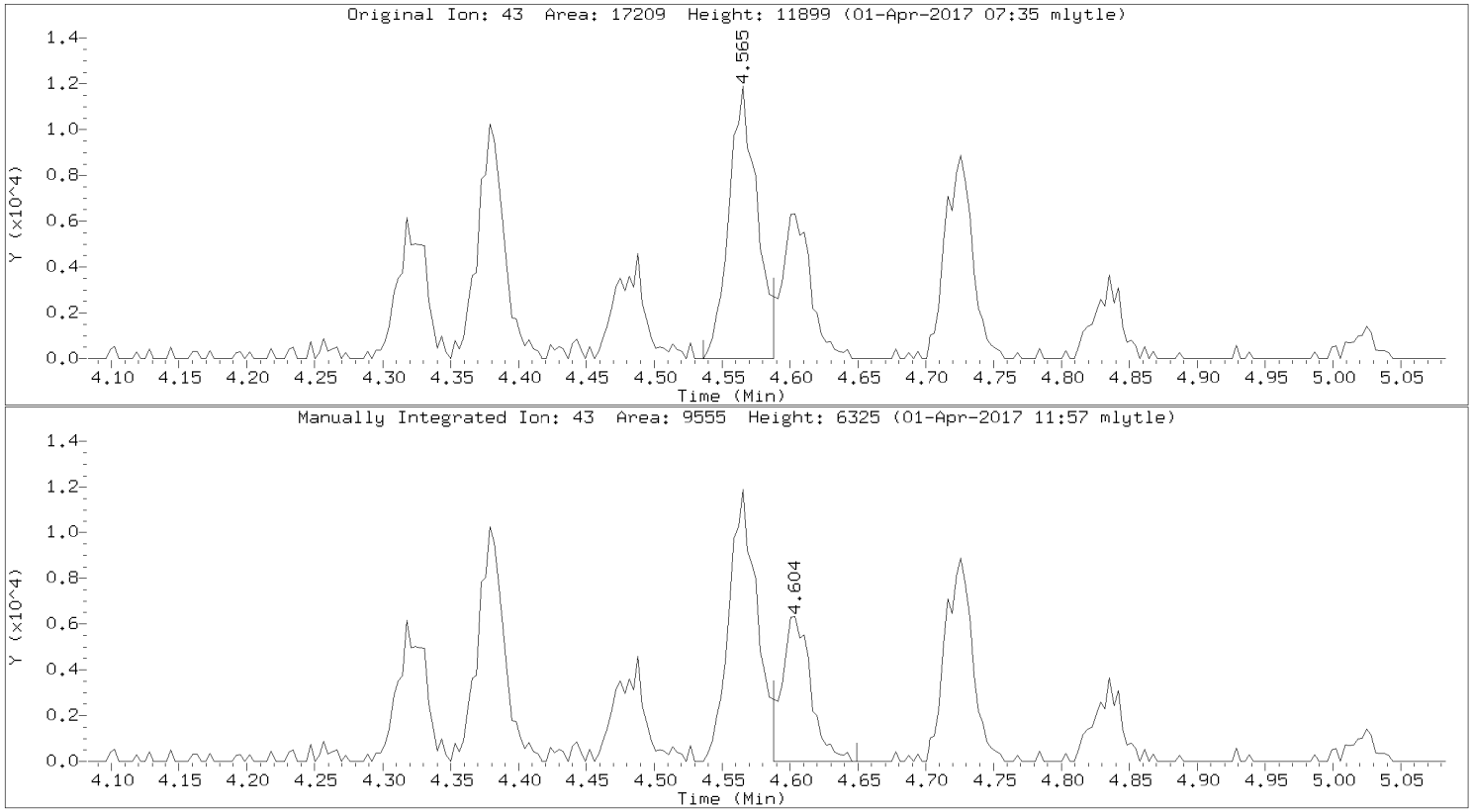






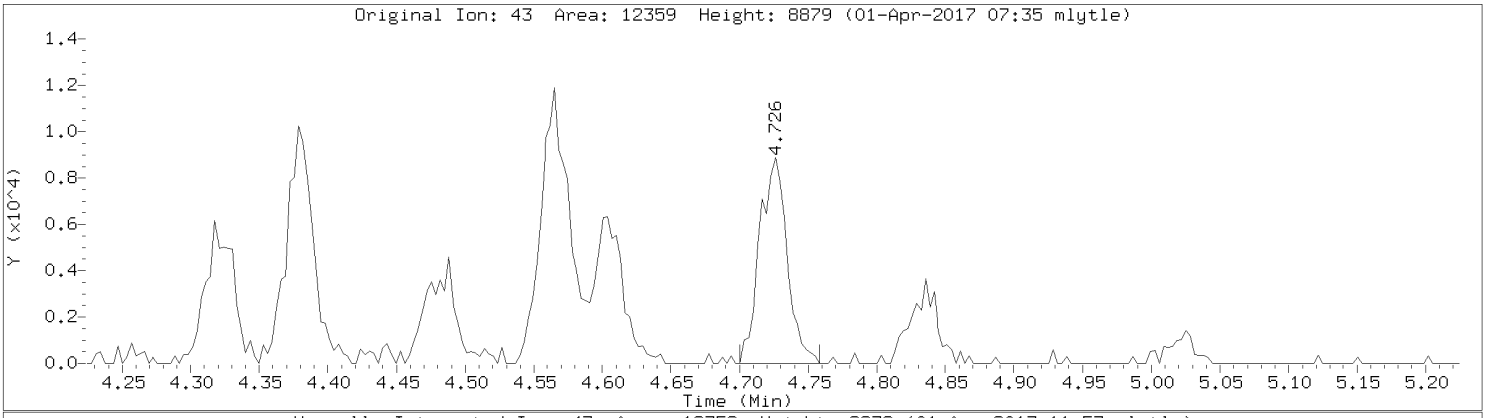


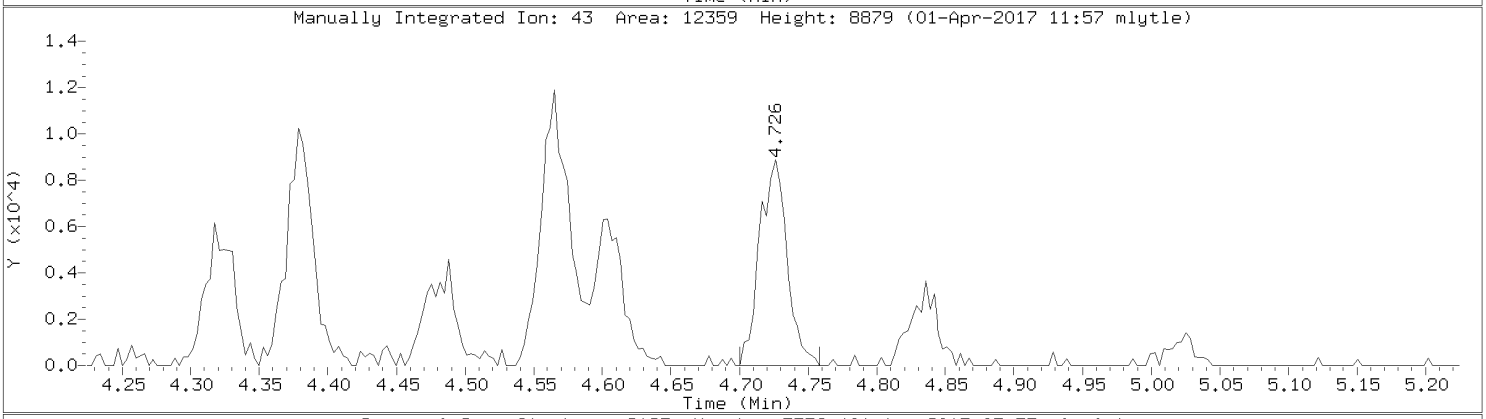
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

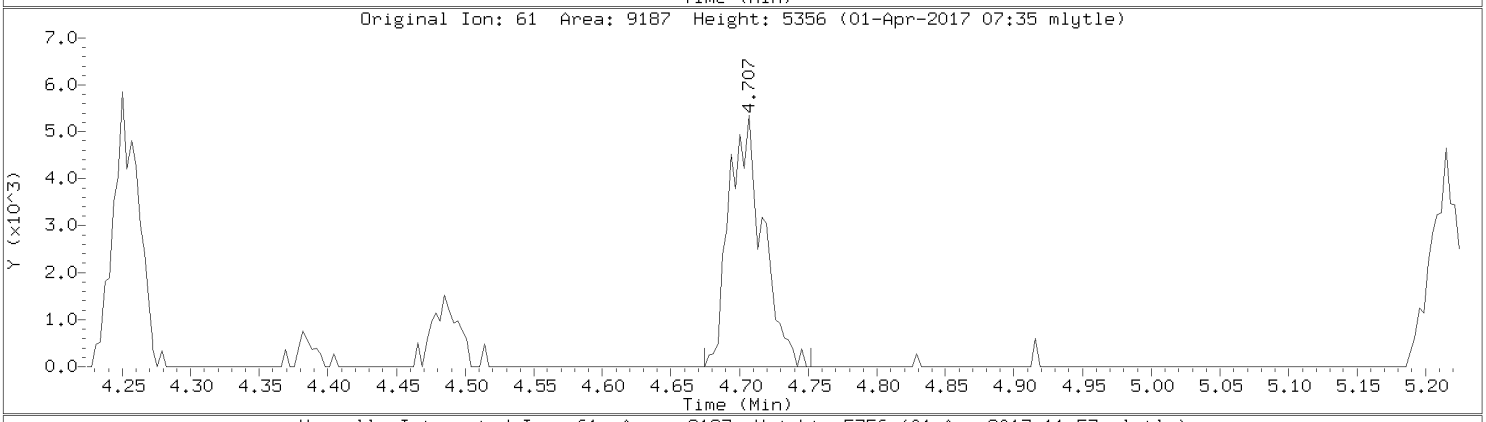


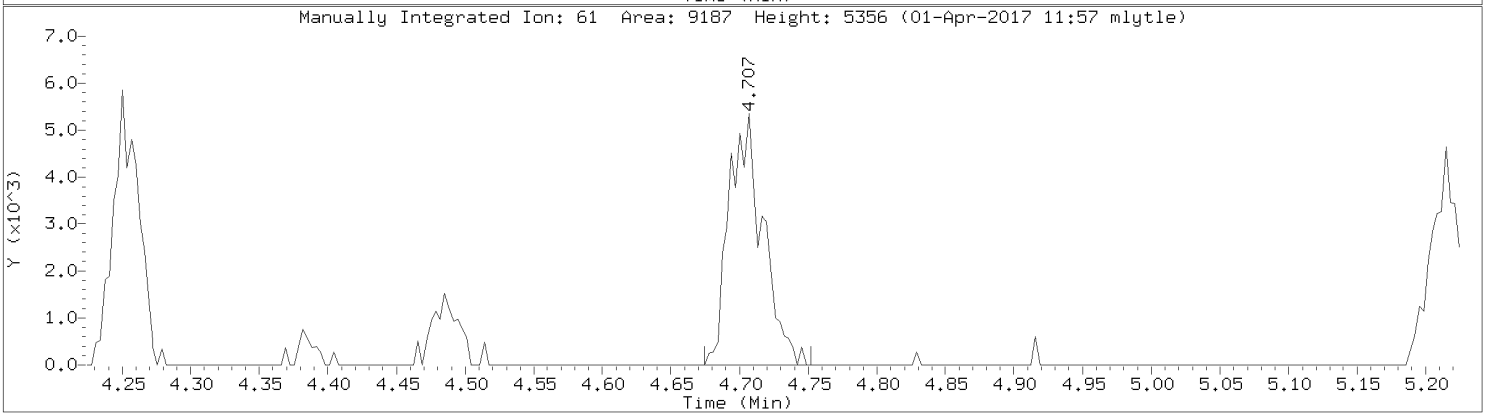
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Ethyl Acetate
CAS Number: 141-78-6

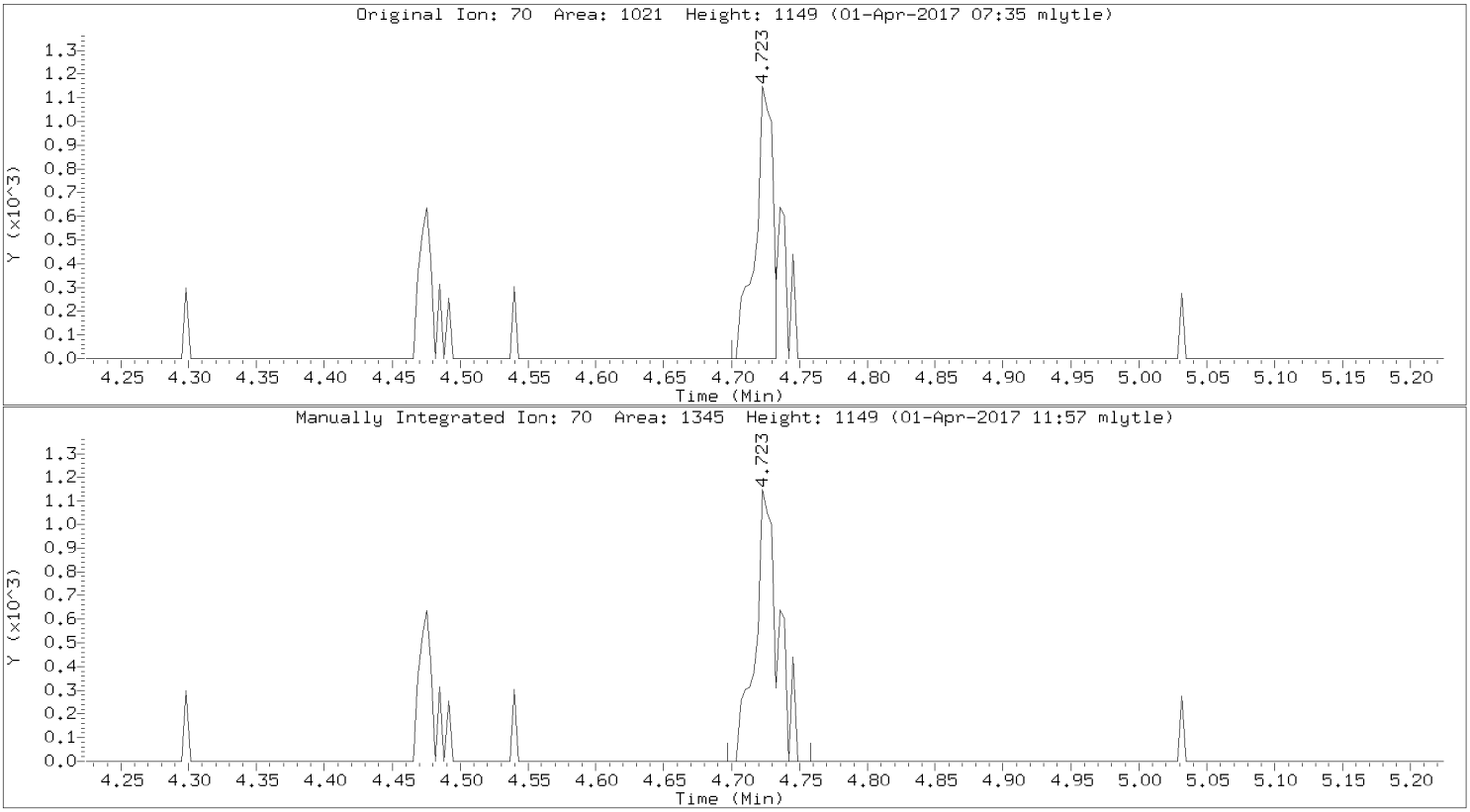






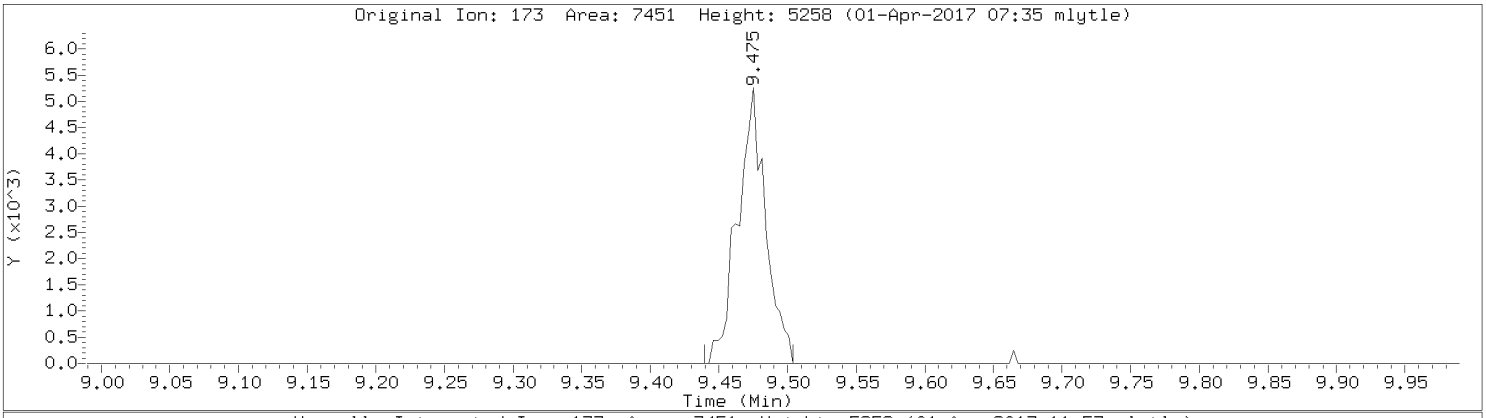


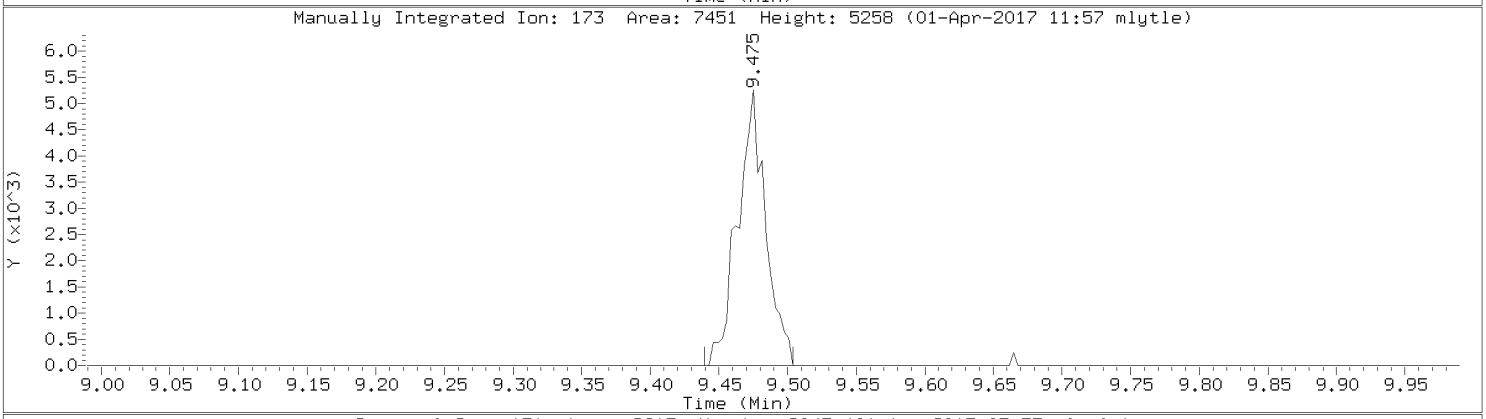
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

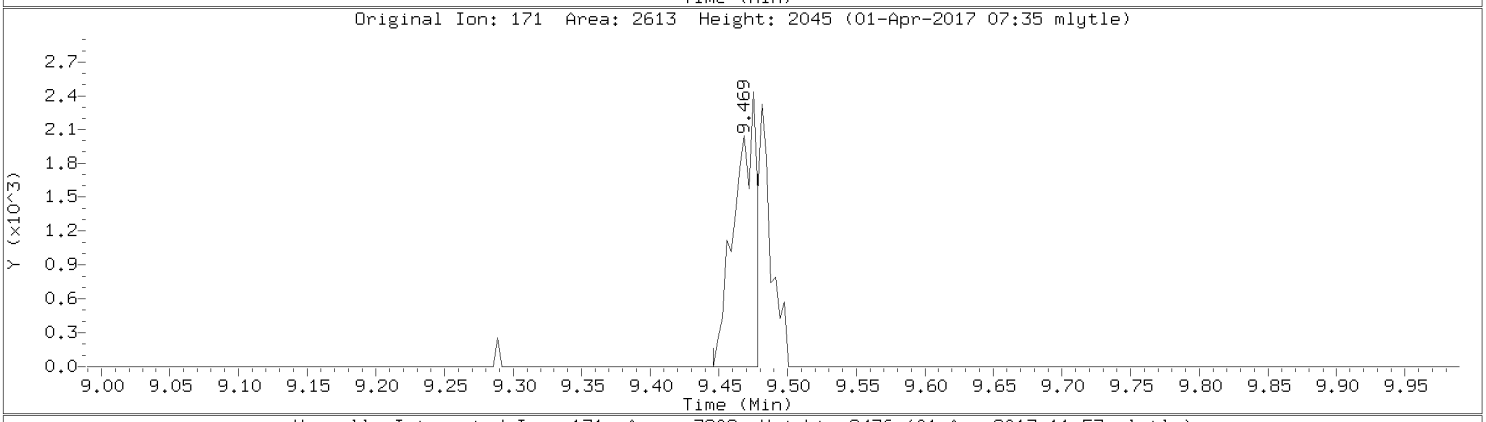


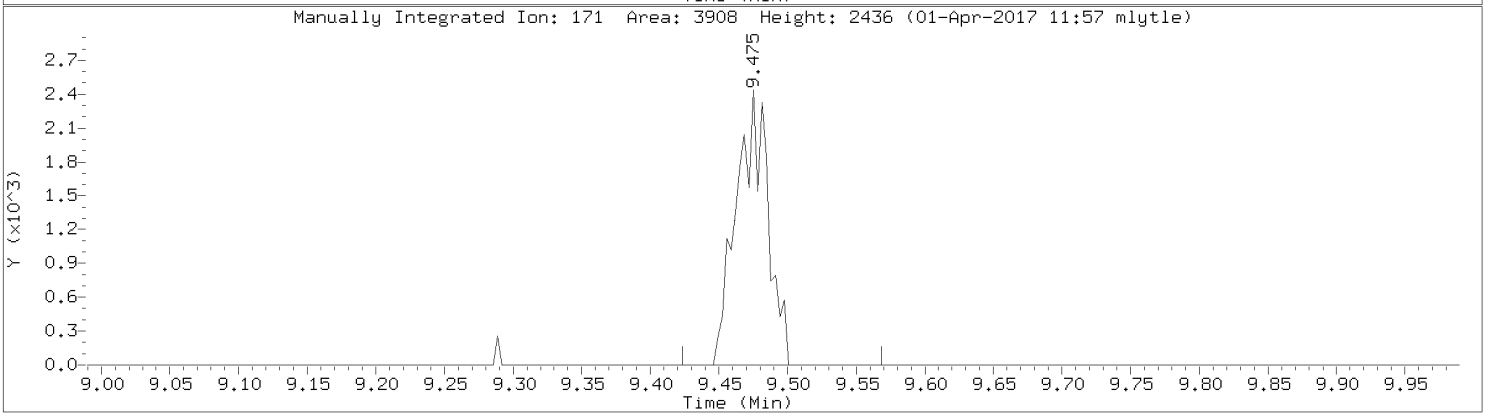
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Bromoform
CAS Number: 75-25-2



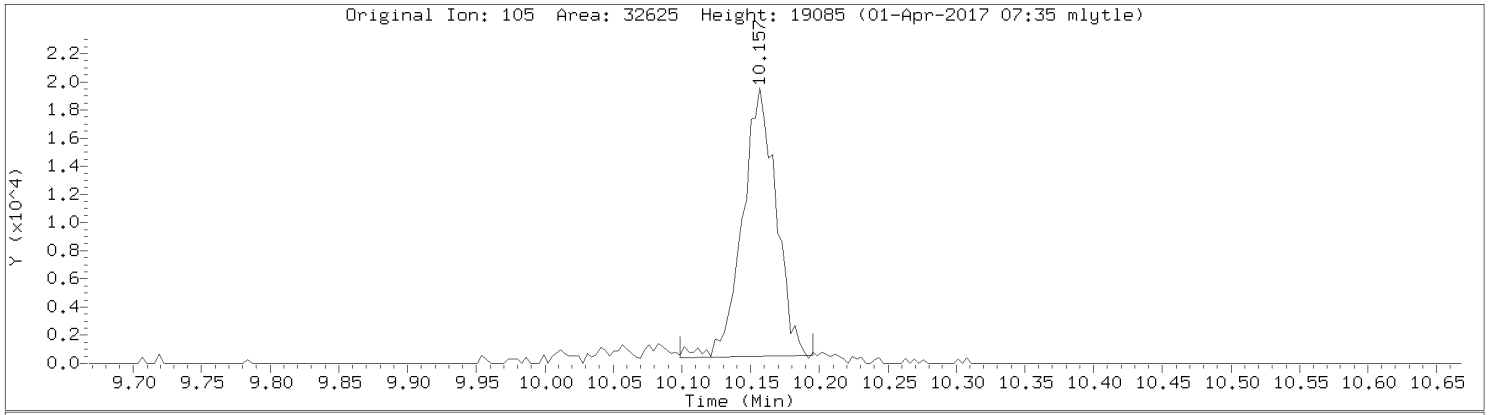


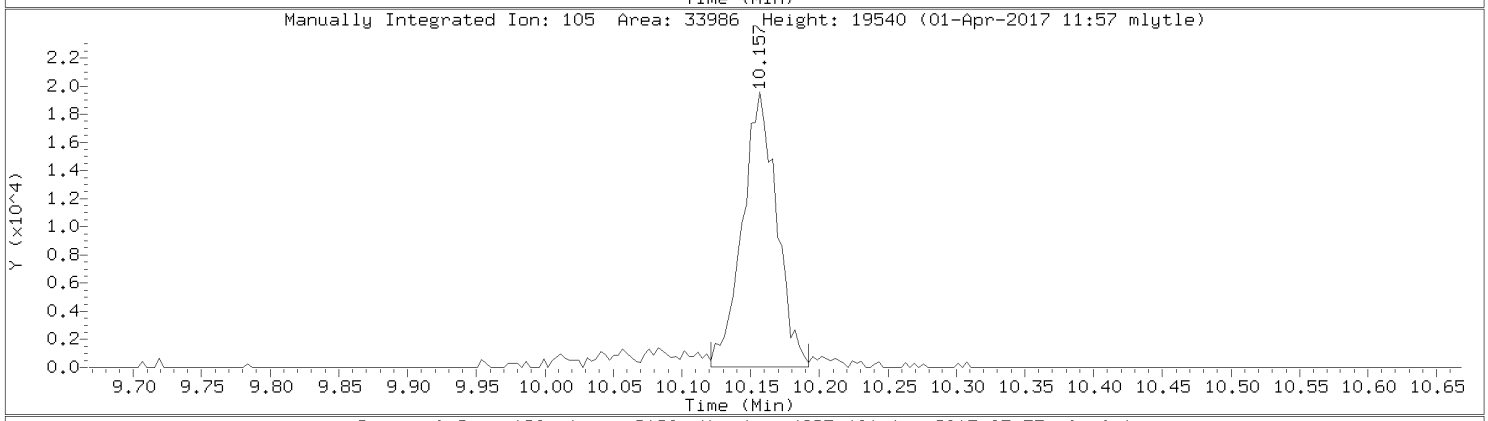


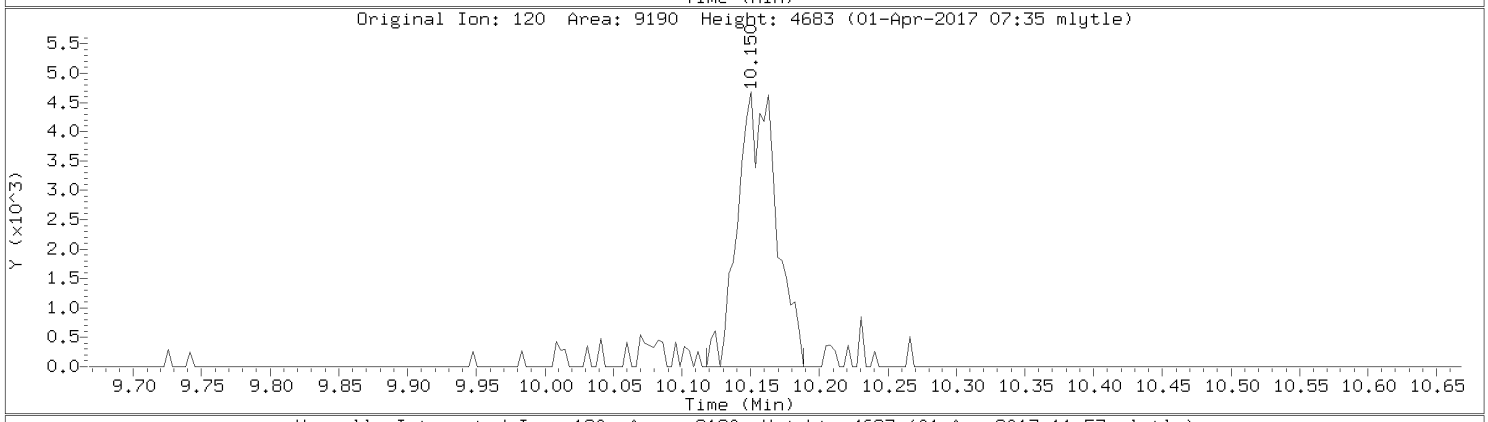


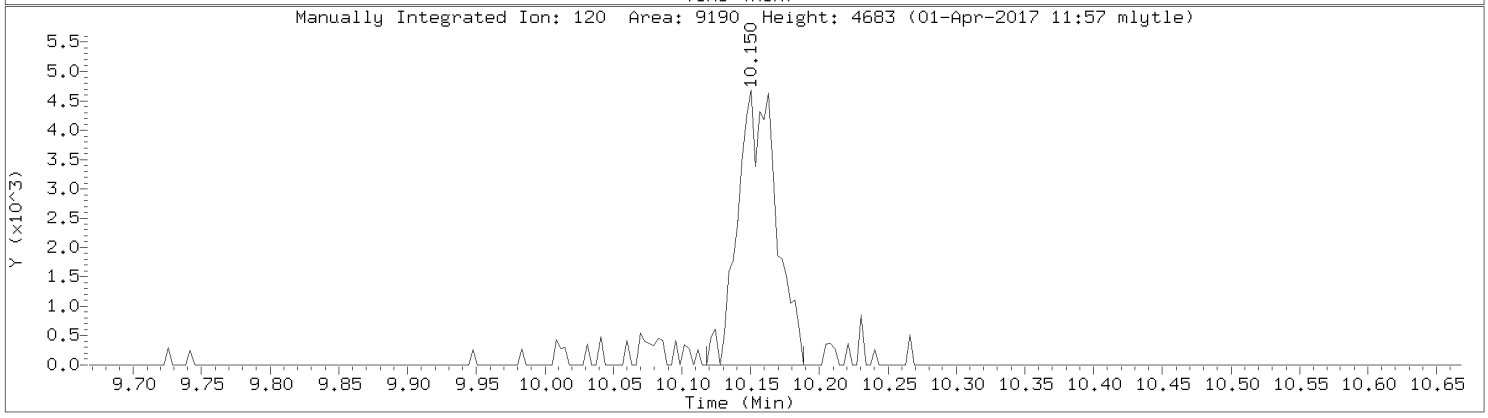
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Isopropylbenzene
CAS Number:



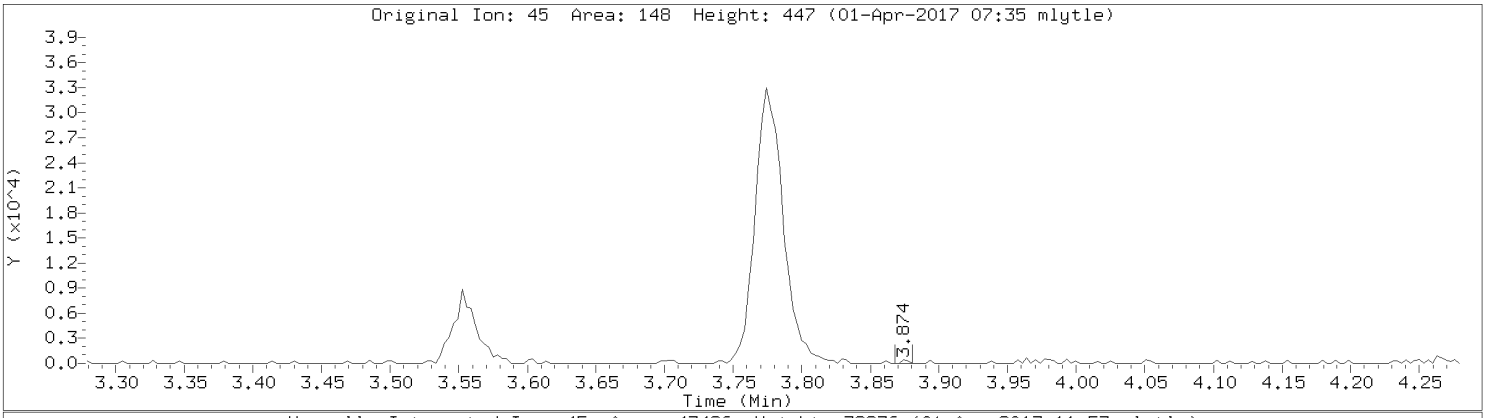


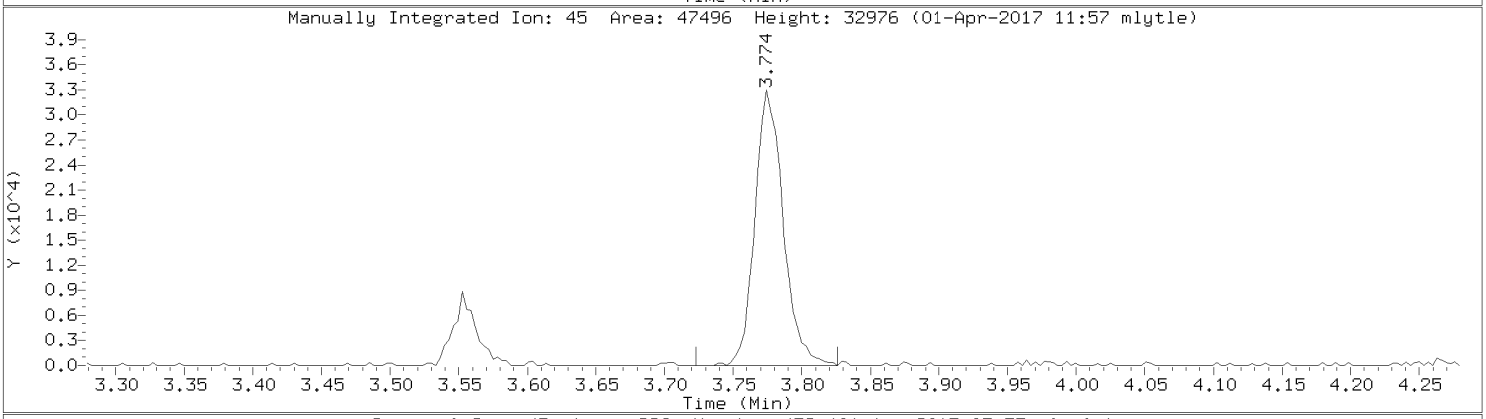


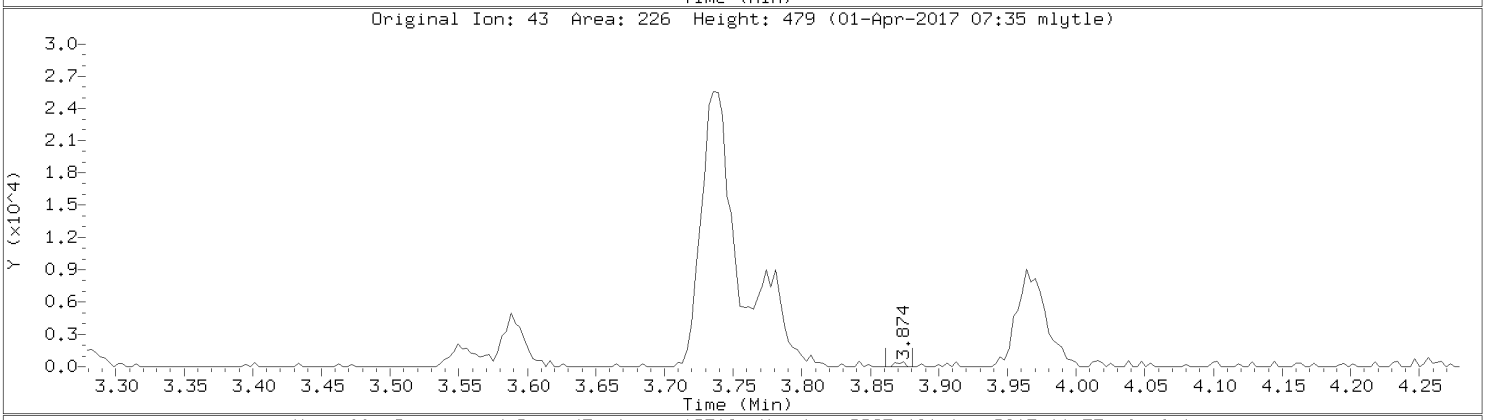


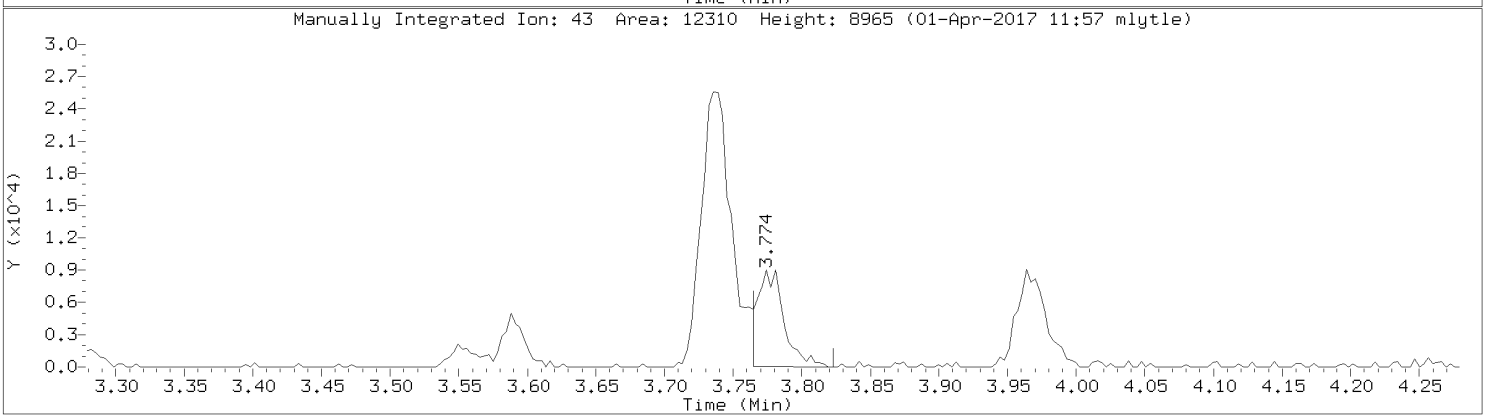
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



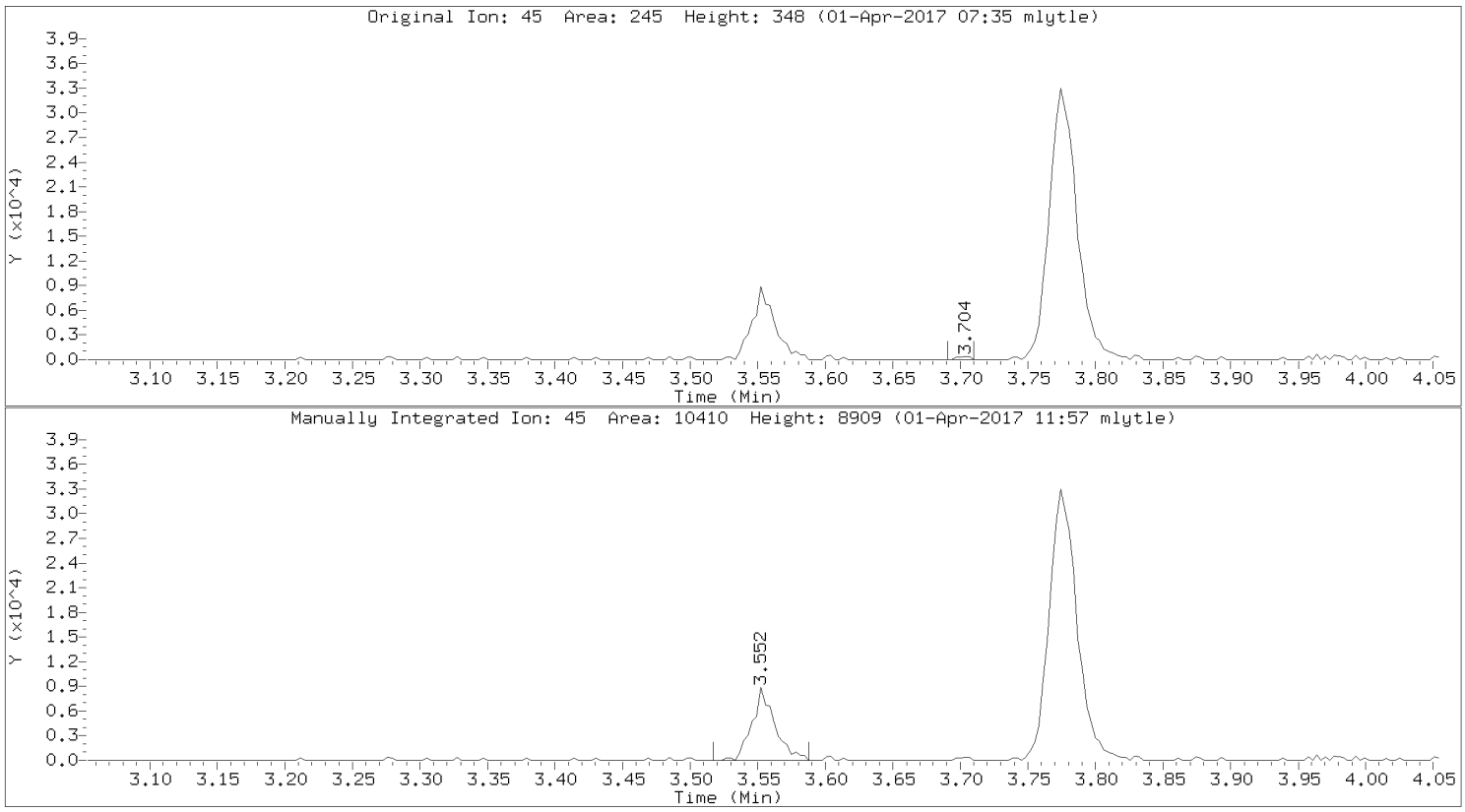






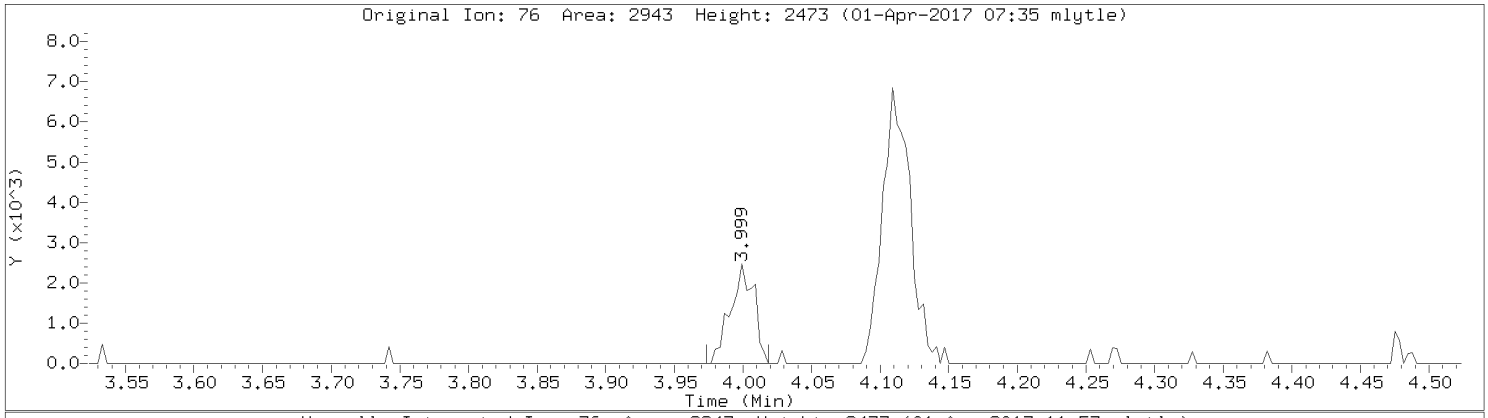
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

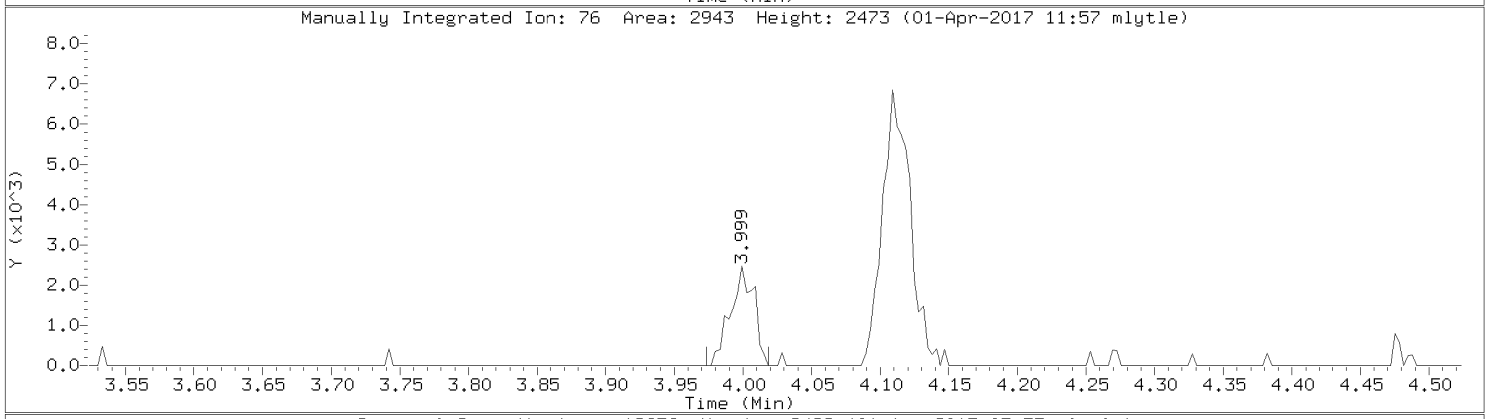
Compound: Ethanol
CAS Number: 64-17-5

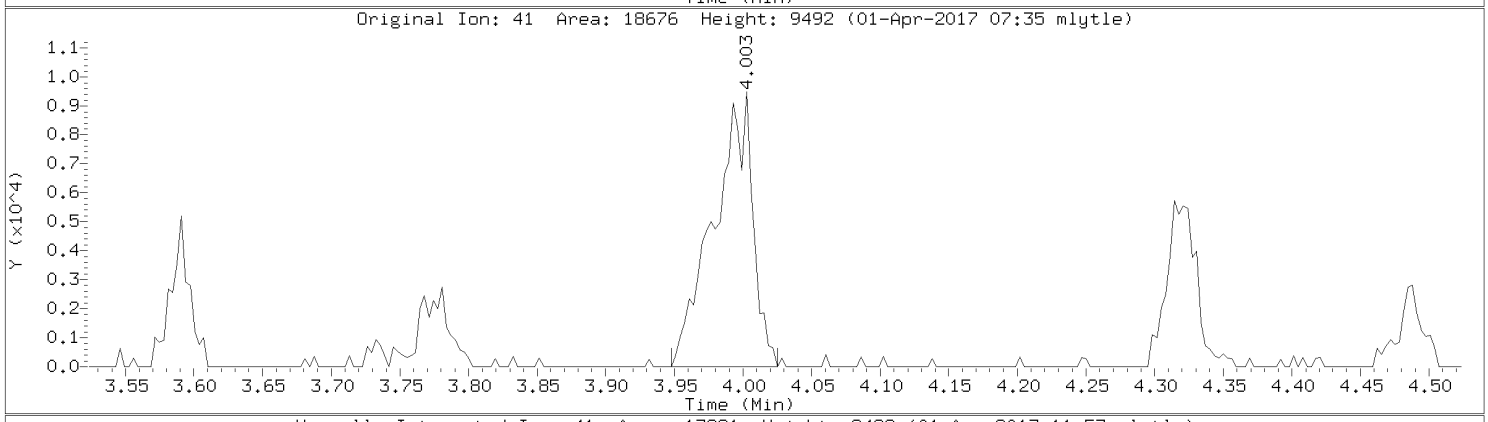


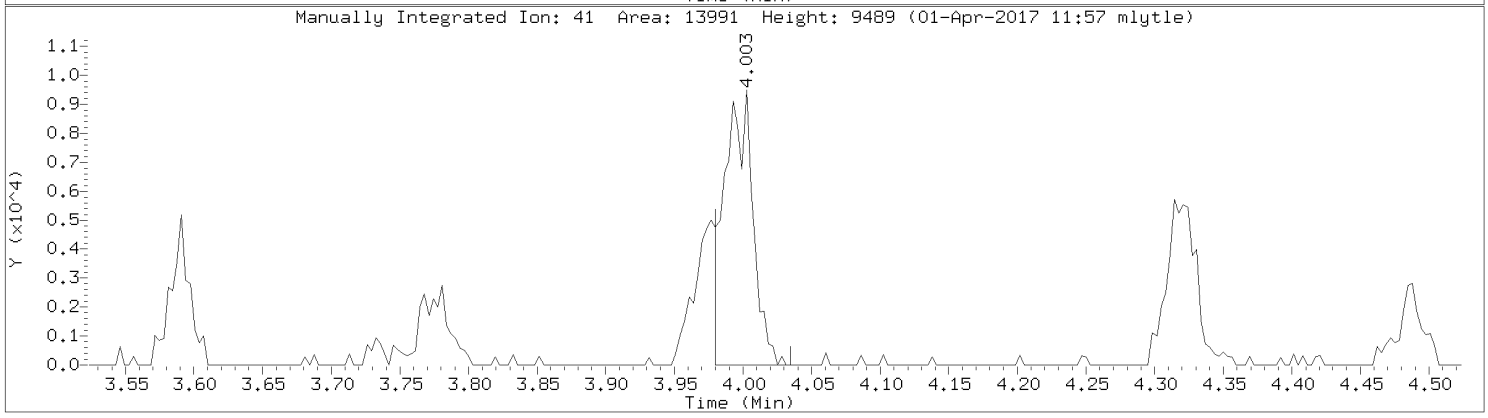
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Allyl Chloride
CAS Number: 107-05-1

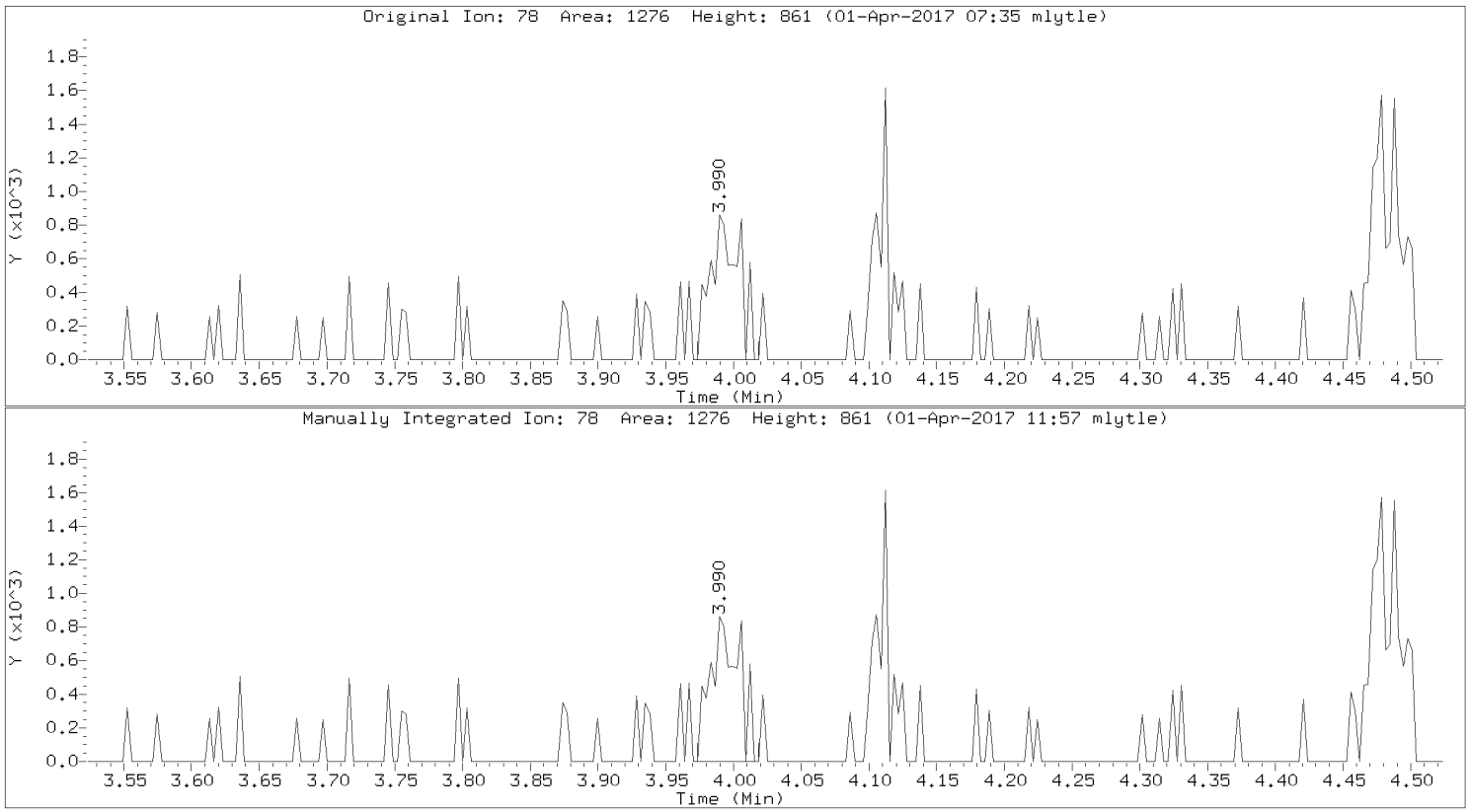






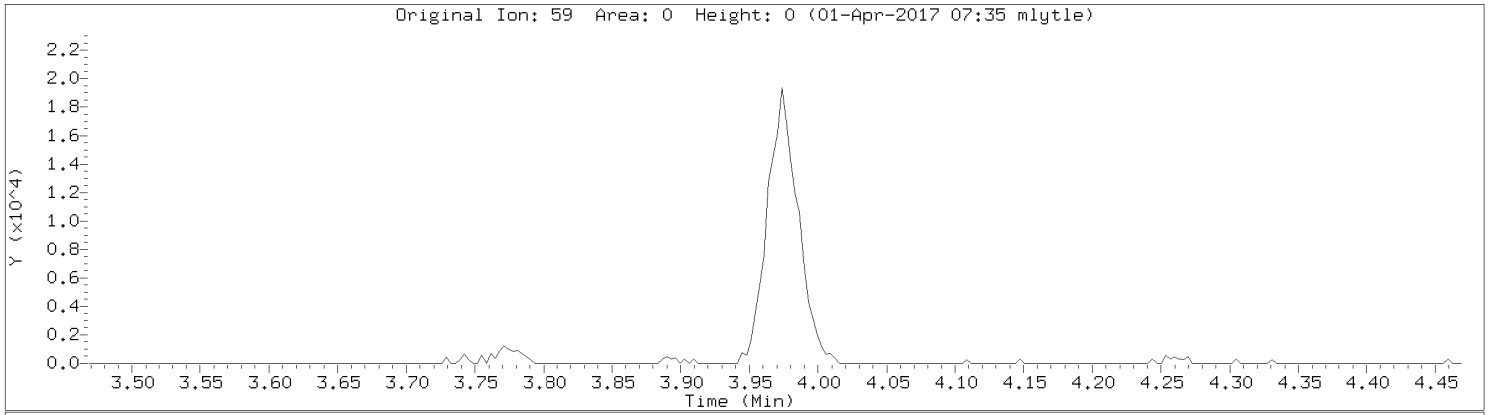


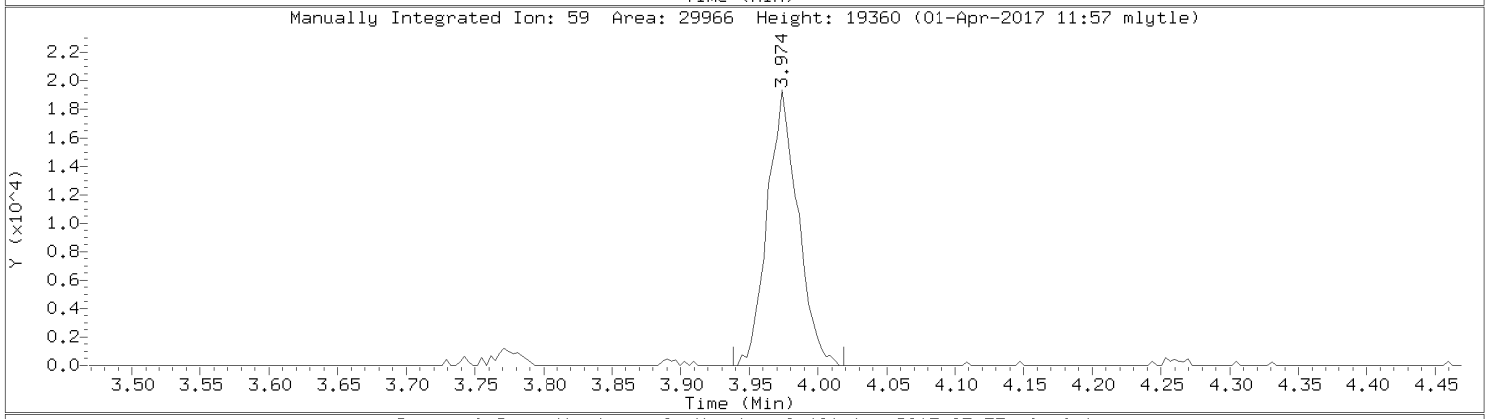
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

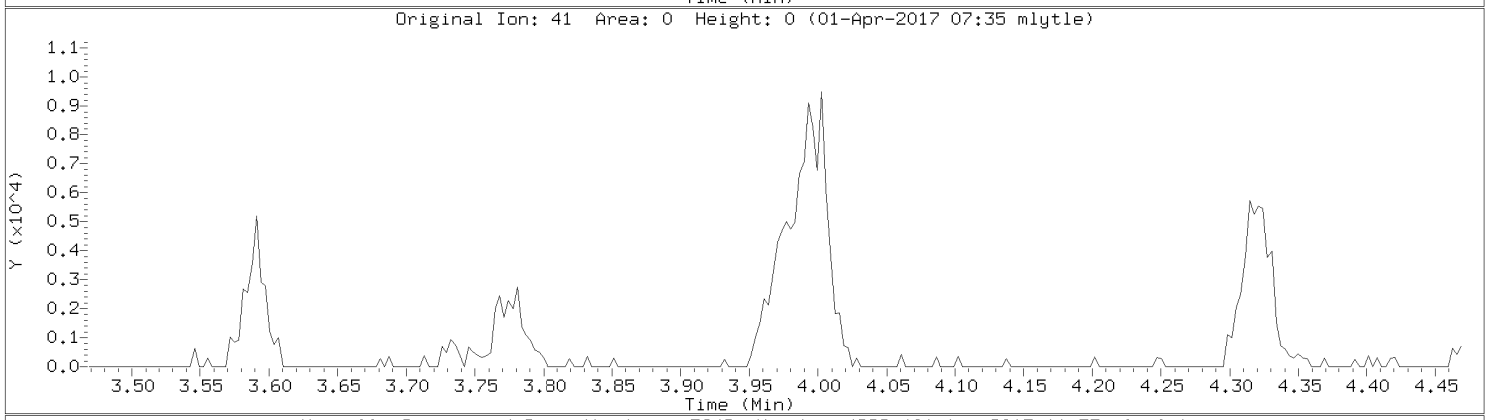


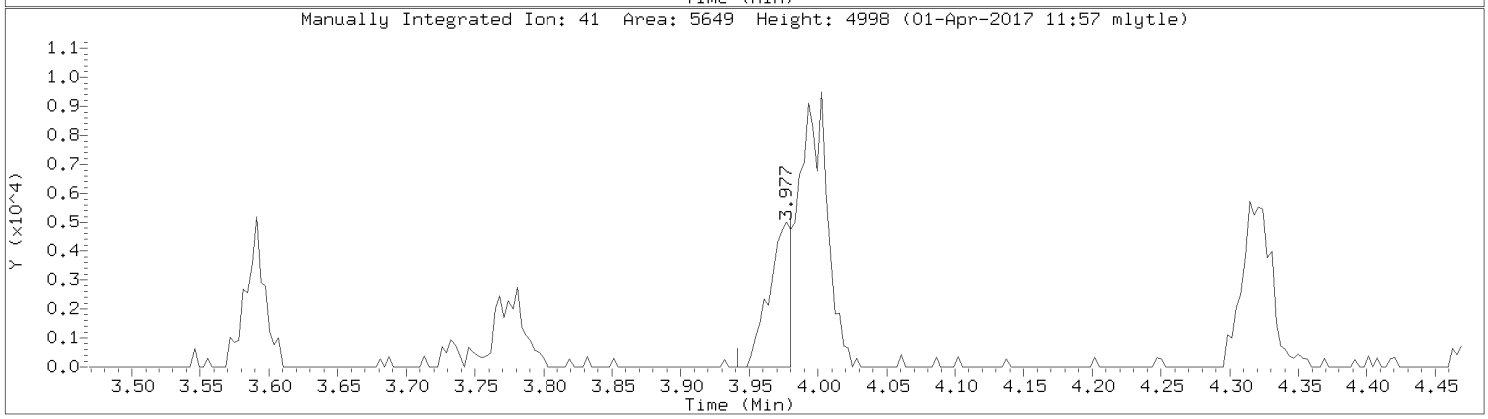
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0



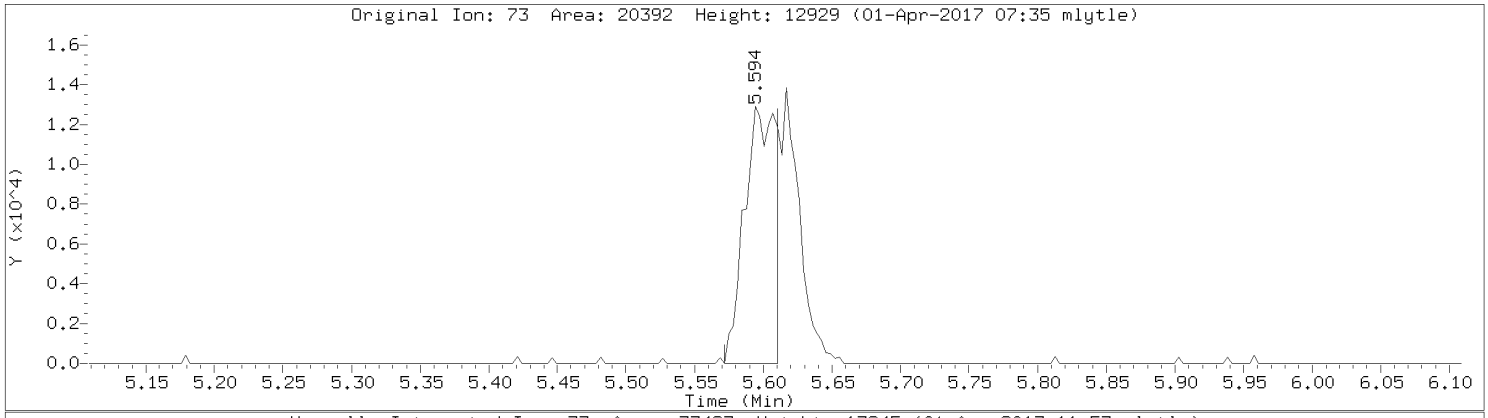


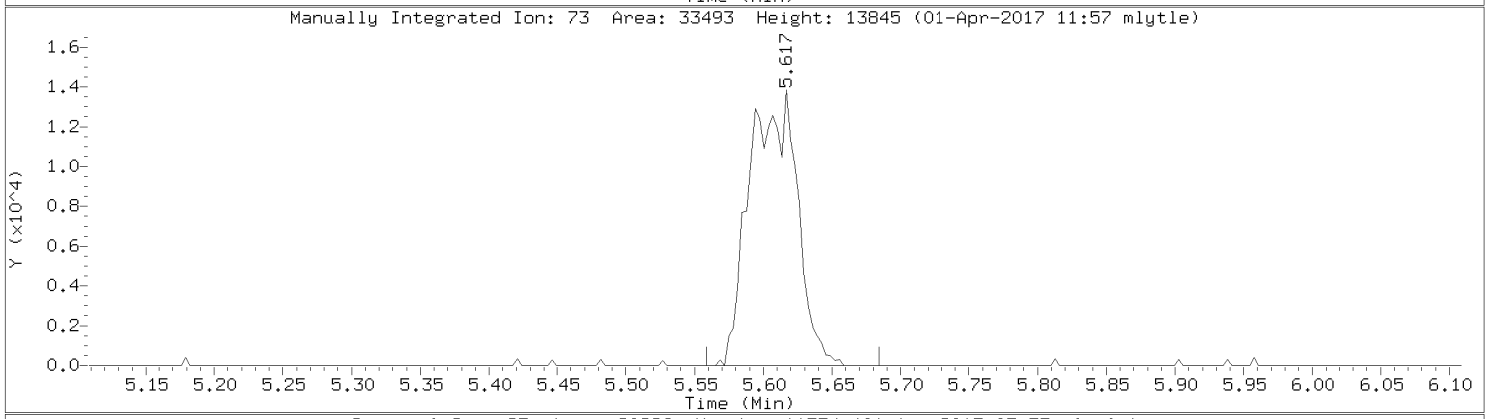


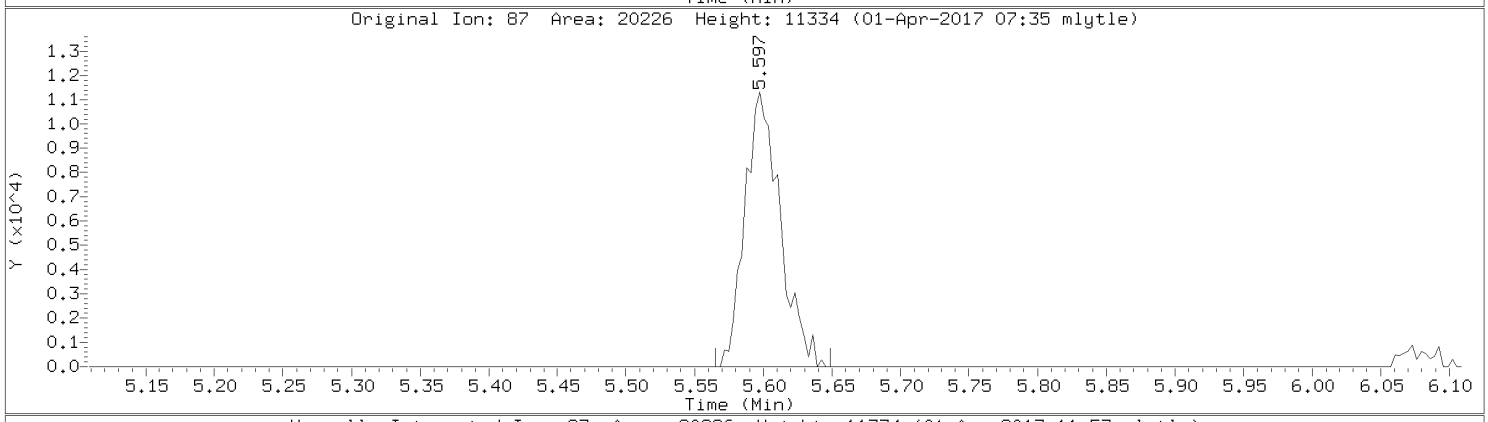


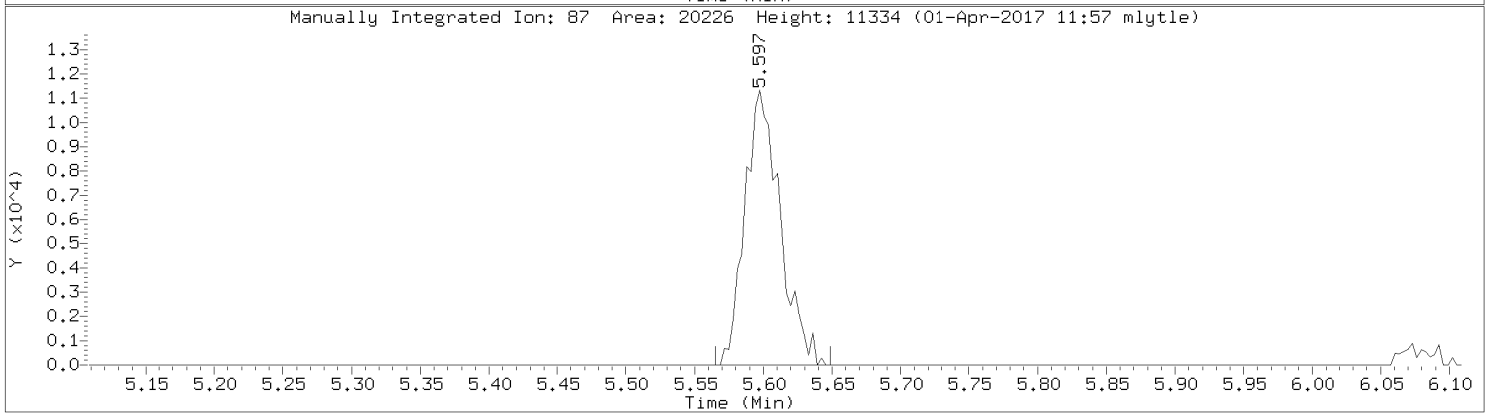
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Tert Amyl Methyl Ether
CAS Number: 994-05-8

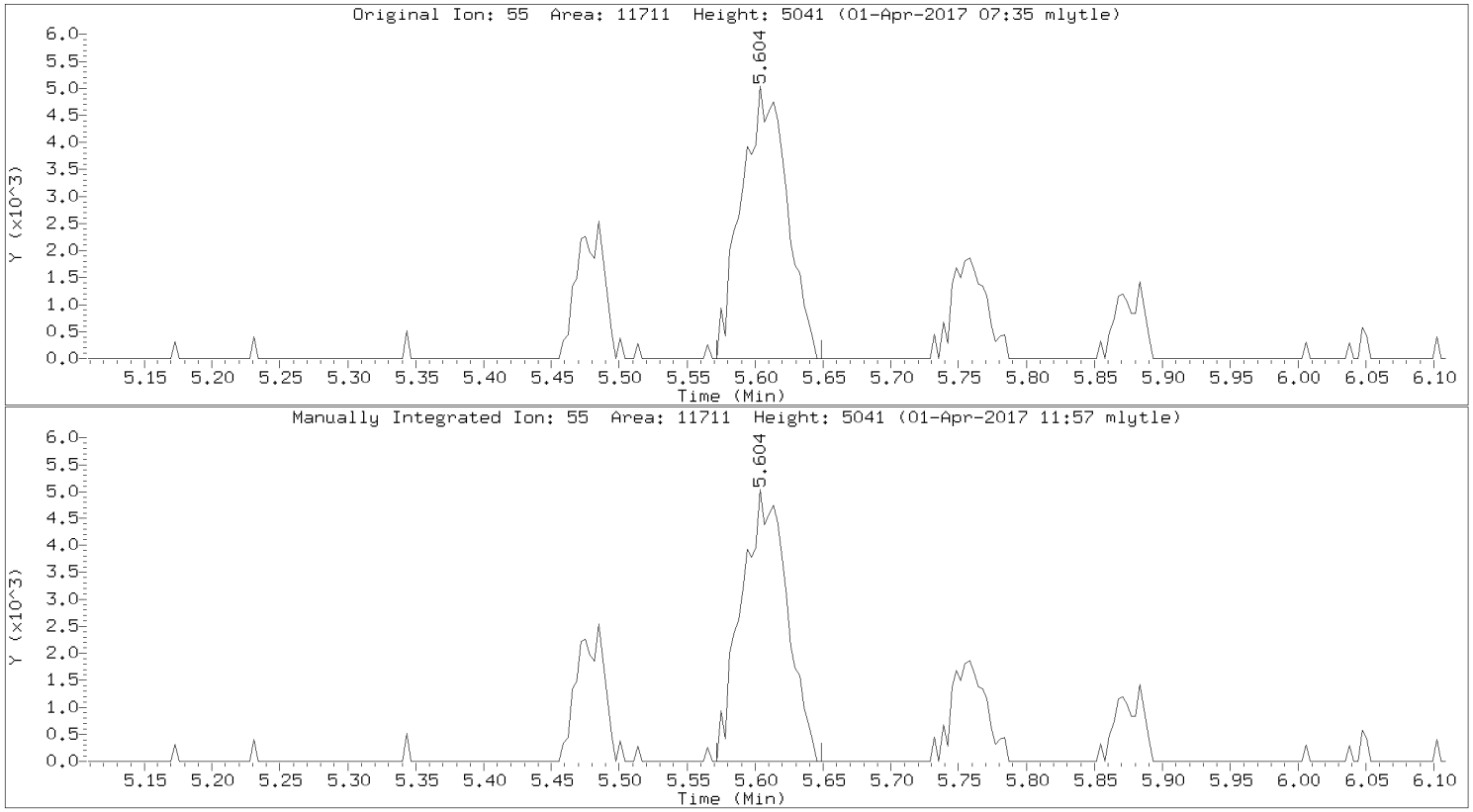






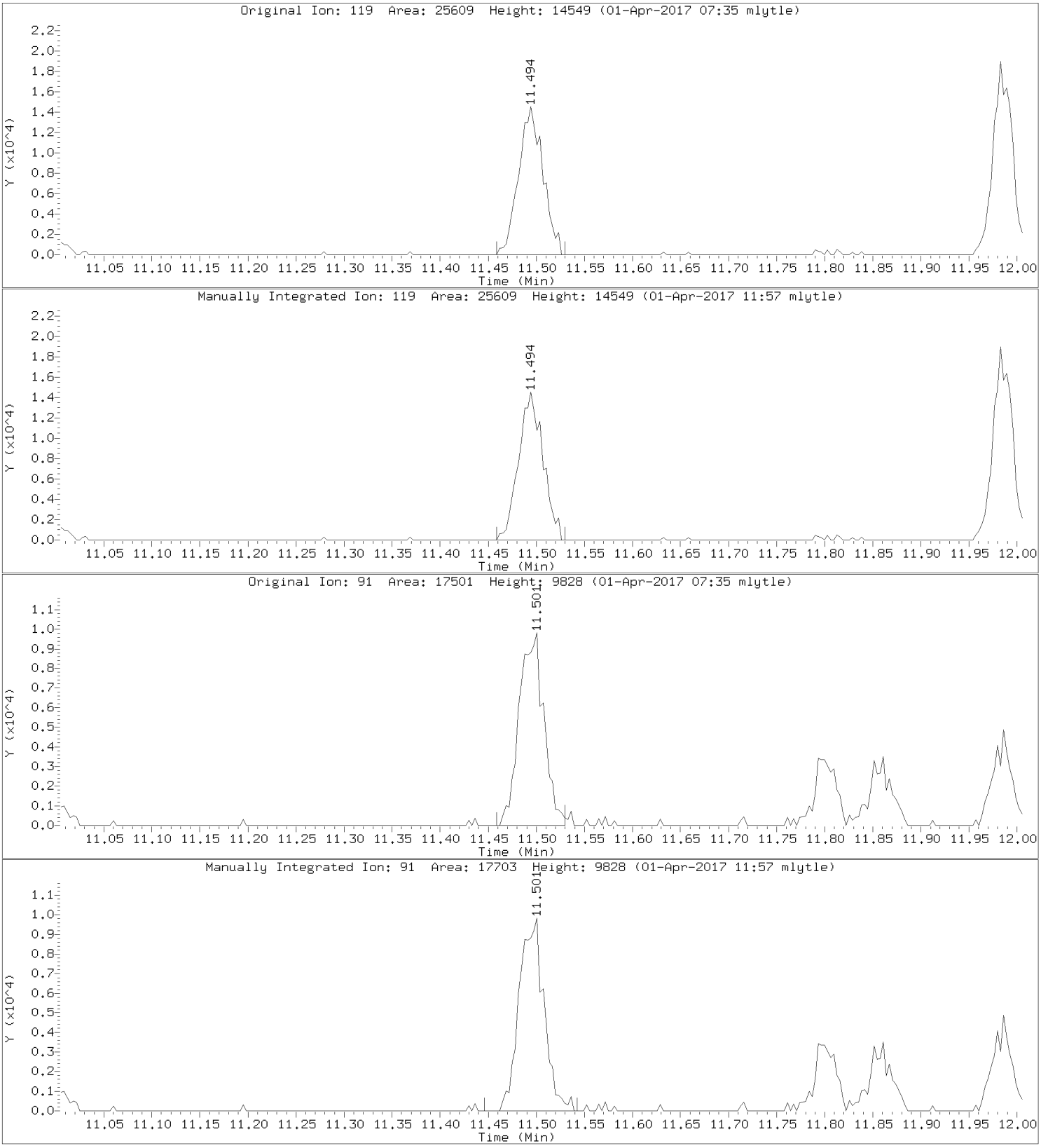


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

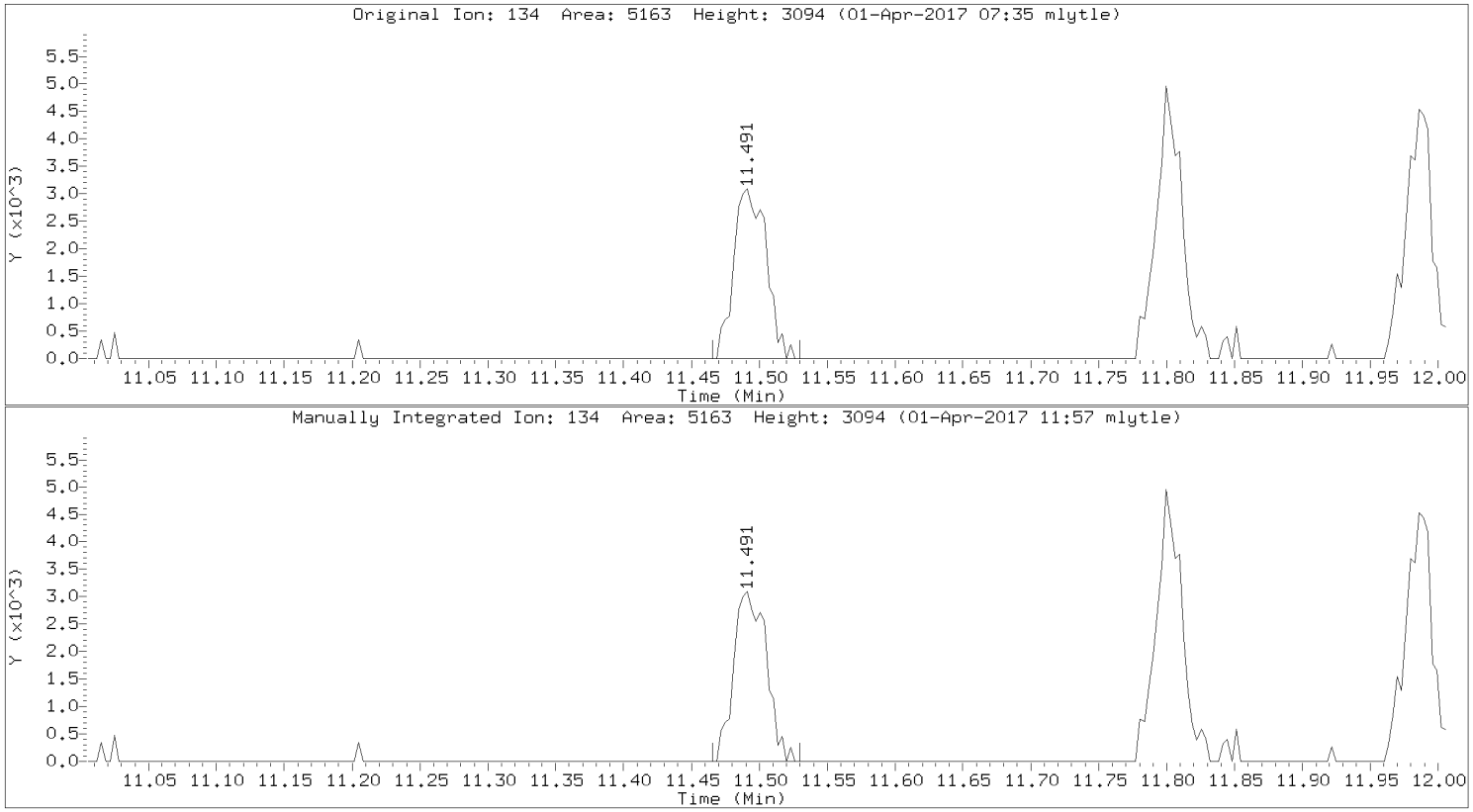


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Tert-Butyl Benzene
CAS Number: 98-06-6

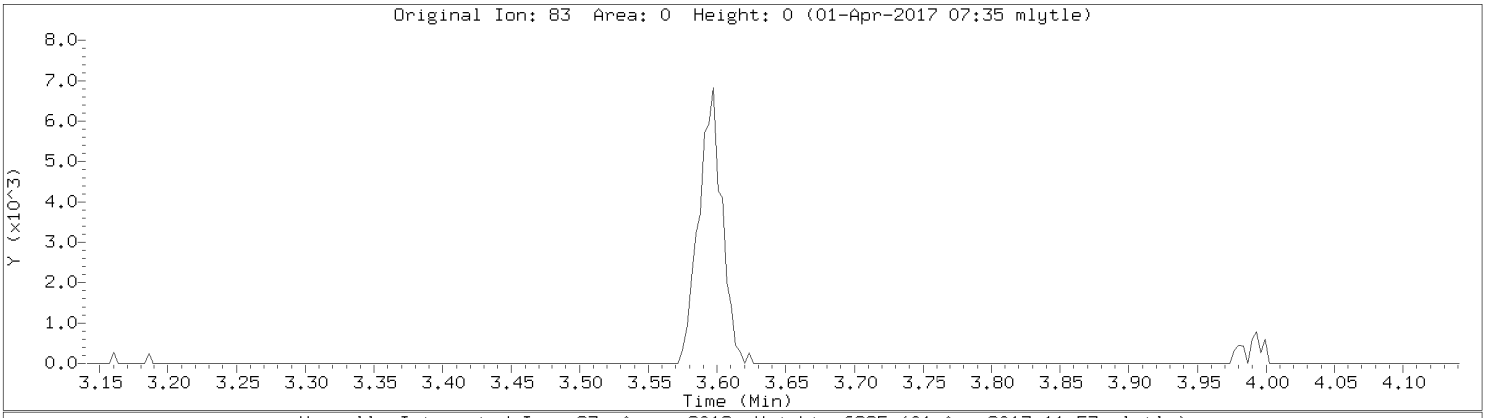


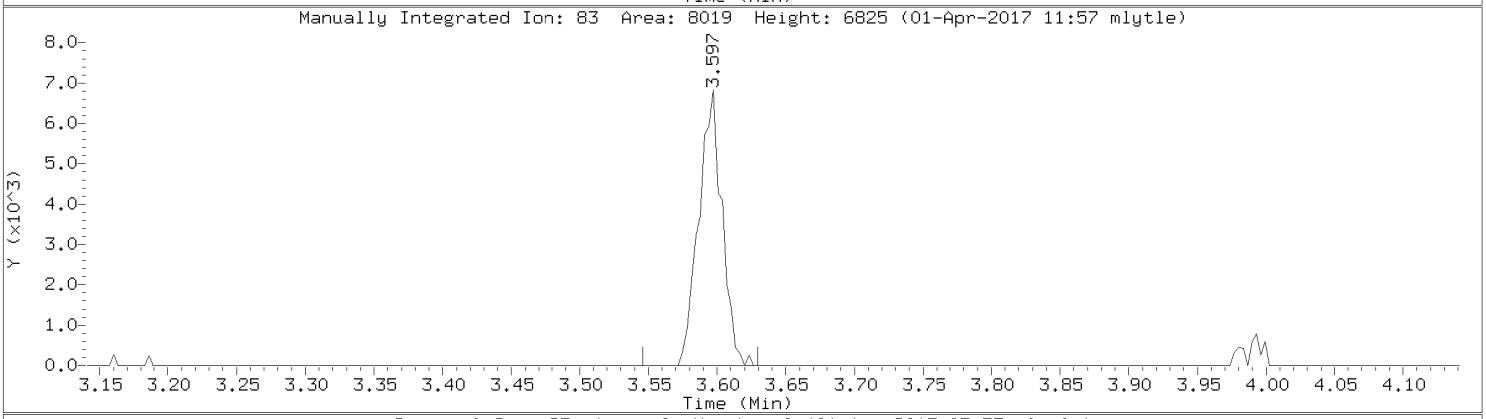
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

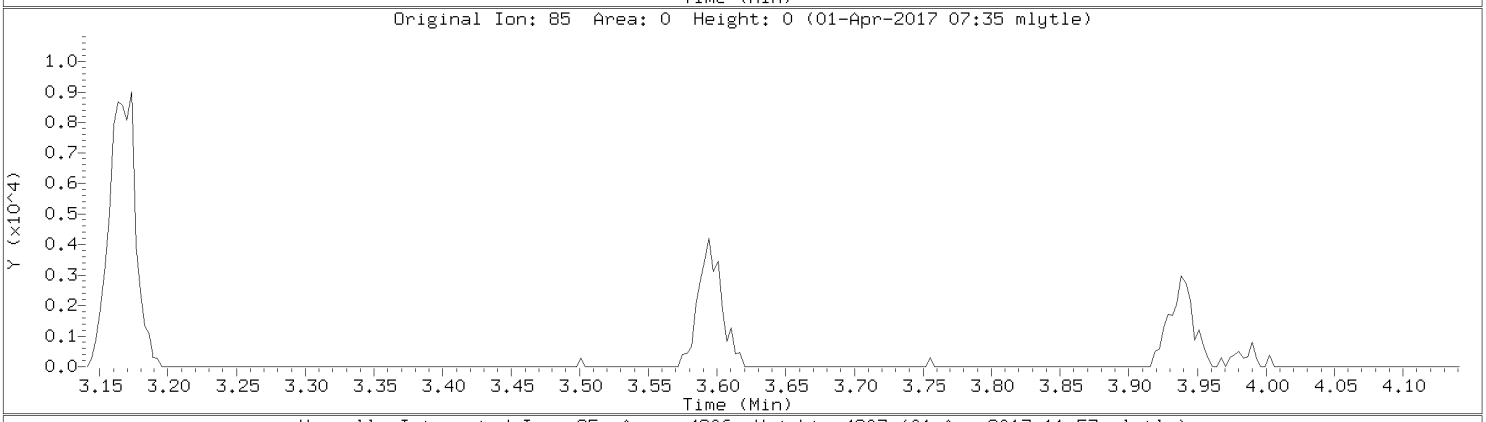


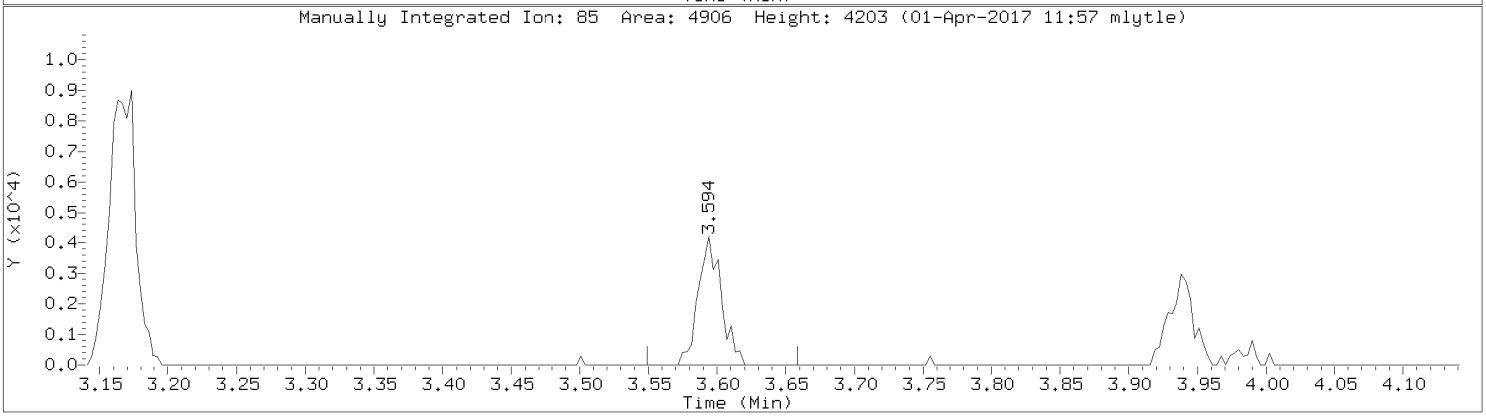
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1

Compound: Freon 123
CAS Number: 306-83-2

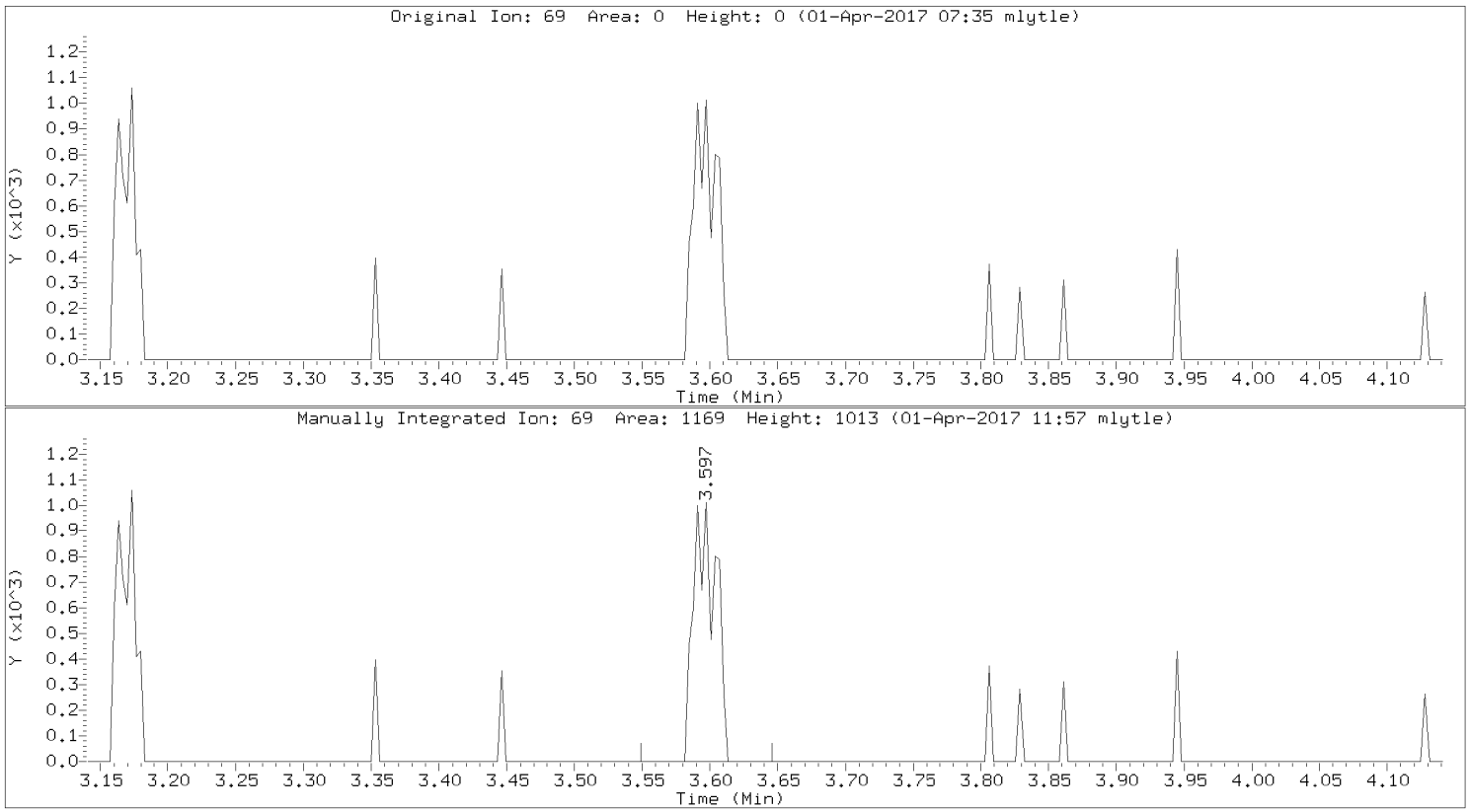








Data File: \\192.168.10.12\chem\10airB.i\033117.b/09002.D
Injection Date: 31-MAR-2017 15:41
Instrument: 10airB.i
Lab Sample ID: CAL1



Data File: \\192.168.10.12\chem\10airB.i\033117.b\09003.D
Report Date: 01-Apr-2017 11:57

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033117.b\09003.D
Lab Smp Id: CAL2
Inj Date : 31-MAR-2017 16:09
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Meth Date : 01-Apr-2017 11:57 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 15:41 Cal File: 09002.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.944	2.944	(0.526)	14120	0.20000	0.270
2	1,1-Difluoroethane	65	3.018	3.018	(0.540)	5955	0.20000	0.196(Q)
3	Chlorodifluoromethane	67	3.031	3.031	(0.542)	2968	0.20000	0.217(Q)
4	Propylene	41	3.031	3.031	(0.542)	7728	0.20000	0.200
5	Dichlorodifluoromethane	85	3.063	3.063	(0.548)	29573	0.20000	0.206
6	Chloromethane	50	3.160	3.160	(0.565)	11952	0.20000	0.190
7	Dichlorotetrafluoroethane	85	3.160	3.160	(0.565)	25304	0.20000	0.203
8	Vinyl chloride	62	3.234	3.234	(0.578)	8789	0.20000	0.178
9	1,3-Butadiene	54	3.266	3.266	(0.584)	6900	0.20000	0.175
10	Bromomethane	94	3.407	3.407	(0.609)	7686	0.20000	0.203(Q)
11	Chloroethane	64	3.455	3.455	(0.618)	3854	0.20000	0.183(M)
12	Ethanol	45	3.545	3.545	(0.634)	17674	1.00000	0.981(M)
13	Vinyl Bromide	106	3.568	3.568	(0.638)	7065	0.20000	0.194
14	Isopentane	43	3.584	3.584	(0.641)	10904	0.20000	0.210(M)
15	Freon 123	83	3.590	3.590	(0.642)	17462	0.20000	0.203(M)
16	Trichlorofluoromethane	101	3.661	3.661	(0.655)	18346	0.20000	0.189
17	Acrolein	56	3.674	3.674	(0.657)	8378	0.50000	0.505
18	Acetone	43	3.722	3.722	(0.665)	71506	1.00000	1.03(M)
19	Isopropyl Alcohol	45	3.761	3.761	(0.672)	80658	1.00000	1.03(M)
20	1,1-Dichloroethene	61	3.889	3.889	(0.695)	13026	0.20000	0.187
21	Acrylonitrile	53	3.906	3.906	(0.698)	18893	0.50000	0.509(M)
22	Freon 113	101	3.931	3.931	(0.703)	17128	0.20000	0.214
23	Methyl Acetate	43	3.954	3.954	(0.707)	23843	0.20000	0.205

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09003.D
Report Date: 01-Apr-2017 11:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.963	3.963	(0.709)	49827	0.50000	0.521(M)
	25 Methylene chloride	49	3.980	3.980	(0.711)	58094	1.00000	1.05(M)
	26 Allyl Chloride	76	3.989	3.989	(0.713)	5726	0.50000	0.434(QM)
	27 Carbon Disulfide	76	4.102	4.102	(0.733)	15975	0.20000	0.187
	28 trans-1,2-dichloroethene	96	4.250	4.250	(0.760)	6850	0.20000	0.179(Q)
	29 Methyl Tert Butyl Ether	73	4.314	4.314	(0.771)	50820	0.50000	0.511
	30 Vinyl Acetate	43	4.378	4.378	(0.783)	22382	0.20000	0.182
	31 1,1-Dichloroethane	63	4.385	4.385	(0.784)	14729	0.20000	0.197(M)
$	32 Hexane-d14(S)	66	4.478	4.478	(0.801)	732655	10.0000	9.98
	33 Methyl Ethyl Ketone	72	4.558	4.558	(0.815)	3860	0.20000	0.196(Q)
	34 n-Hexane	57	4.568	4.568	(0.817)	15538	0.20000	0.208(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.822)	30504	0.20000	0.194
	36 Ethyl Acetate	43	4.719	4.719	(0.844)	20597	0.20000	0.197(M)
	37 cis-1,2-Dichloroethene	96	4.700	4.700	(0.840)	8417	0.20000	0.200
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.863)	71214	0.50000	0.484
	39 Chloroform	83	4.812	4.812	(0.860)	14366	0.20000	0.182
	40 Tetrahydrofuran	42	5.008	5.008	(0.895)	12247	0.20000	0.201
	41 1,1,1-Trichloroethane	97	5.217	5.217	(0.933)	19702	0.20000	0.193
	42 1,2-Dichloroethane	62	5.214	5.214	(0.932)	17110	0.20000	0.204
	43 Benzene	78	5.449	5.449	(0.974)	29592	0.20000	0.202
	44 Carbon tetrachloride	117	5.468	5.468	(0.978)	19275	0.20000	0.188
	45 Cyclohexane	56	5.481	5.481	(0.980)	17924	0.20000	0.212(M)
	46 Tert Amyl Methyl Ether	73	5.606	5.606	(1.002)	45447	0.20000	0.287
*	47 1,4-Difluorobenzene	114	5.594	5.594	(1.000)	1945833	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.754	(1.029)	137217	0.50000	0.531(M)
	49 Heptane	43	5.877	5.877	(1.051)	18961	0.20000	0.188
	50 1,2-Dichloropropane	63	5.954	5.954	(1.064)	11774	0.20000	0.196
	51 Trichloroethene	130	5.973	5.973	(1.068)	15825	0.20000	0.201
	52 Methyl methacrylate	69	6.044	6.044	(1.080)	11216	0.20000	0.211
	53 1,4-Dioxane	88	6.086	6.086	(1.088)	8002	0.20000	0.221
	54 Bromodichloromethane	83	6.069	6.069	(1.085)	18428	0.20000	0.178
	55 Methylcyclohexane	98	6.423	6.423	(1.148)	8036	0.20000	0.192(Q)
	56 Methyl Isobutyl Ketone	43	6.536	6.536	(1.168)	70049	0.50000	0.509
	57 cis-1,3-Dichloropropene	75	6.574	6.574	(1.175)	13751	0.20000	0.170
	58 trans-1,3-Dichloropropene	75	6.973	6.973	(1.247)	11183	0.20000	0.157(M)
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	1559126	10.0000	9.56(H)
	60 1,1,2-Trichloroethane	97	7.131	7.131	(1.275)	12484	0.20000	0.195
	61 Toluene	91	7.140	7.140	(1.276)	38566	0.20000	0.205
	62 Methyl Butyl Ketone	43	7.381	7.381	(0.855)	55301	0.50000	0.500
	63 n-Octane	43	7.574	7.574	(0.877)	23900	0.20000	0.191
	64 Dibromochloromethane	129	7.664	7.664	(0.888)	19633	0.20000	0.184
	65 1,2-Dibromoethane	107	7.899	7.899	(0.915)	19968	0.20000	0.204
	66 Tetrachloroethene	166	7.976	7.976	(0.924)	22403	0.20000	0.230
*	67 Chlorobenzene - d5	117	8.635	8.635	(1.000)	1100629	10.0000	
	68 Chlorobenzene	112	8.677	8.677	(1.005)	30706	0.20000	0.203
	69 Ethyl Benzene	91	8.925	8.925	(1.034)	46953	0.20000	0.201
	70 m&p-Xylene	91	9.076	9.076	(1.051)	73138	0.40000	0.414
	71 n-Nonane	43	9.462	9.462	(1.096)	23047	0.20000	0.201
	72 Bromoform	173	9.471	9.471	(1.097)	13565	0.20000	0.169
	73 Styrene	104	9.500	9.500	(1.100)	26783	0.20000	0.202
	74 o-Xylene	91	9.577	9.577	(1.109)	38505	0.20000	0.209
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	19773	0.20000	0.190
	76 Isopropylbenzene	105	10.156	10.156	(1.176)	52858	0.20000	0.205
	77 N-Propylbenzene	91	10.732	10.732	(1.243)	48709	0.20000	0.183

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09003.D
Report Date: 01-Apr-2017 11:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.264)	41243	0.20000	0.184(M)
79	1,3,5-Trimethylbenzene	105	10.995	10.995	(1.273)	37682	0.20000	0.188(M)
80	n-Decane	57	11.372	11.372	(2.033)	22208	0.20000	0.180
81	Tert-Butyl Benzene	119	11.490	11.490	(1.331)	41820	0.20000	0.200
82	1,2,4-Trimethylbenzene	105	11.503	11.503	(1.332)	34166	0.20000	0.190
83	1,3-Dichlorobenzene	146	11.786	11.786	(1.365)	18140	0.20000	0.170
84	Sec- Butylbenzene	105	11.802	11.802	(1.367)	51369	0.20000	0.197
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.847	(1.372)	399792	10.0000	8.04
86	Benzyl Chloride	91	11.854	11.854	(1.373)	7332	0.20000	0.304
87	1,4-Dichlorobenzene	146	11.886	11.886	(1.376)	17569	0.20000	0.171
88	p-Isopropyltoluene	119	11.986	11.986	(1.388)	41803	0.20000	0.190
89	1,2,3-Trimethylbenzene	105	12.024	12.024	(1.392)	36196	0.20000	0.202
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.422)	17104	0.20000	0.172
91	N-Butylbenzene	91	12.461	12.461	(1.443)	25382	0.20000	0.163
92	1,2-Dibromo-3-Chloropropane	157	12.902	12.902	(1.494)	3780	0.20000	0.322(Q)
93	1,2,4-Trichlorobenzene	180	14.040	14.040	(1.626)	1140	0.20000	0.348(Q)
94	Naphthalene	128	14.178	14.178	(1.642)	5345	0.20000	0.454
95	Hexachlorobutadiene	225	14.410	14.410	(1.669)	8239	0.20000	0.0798

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09003.D
Report Date: 01-Apr-2017 11:57

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09003.D
Lab Smp Id: CAL2
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Misc Info:

Calibration Date: 31-MAR-2017
Calibration Time: 17:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

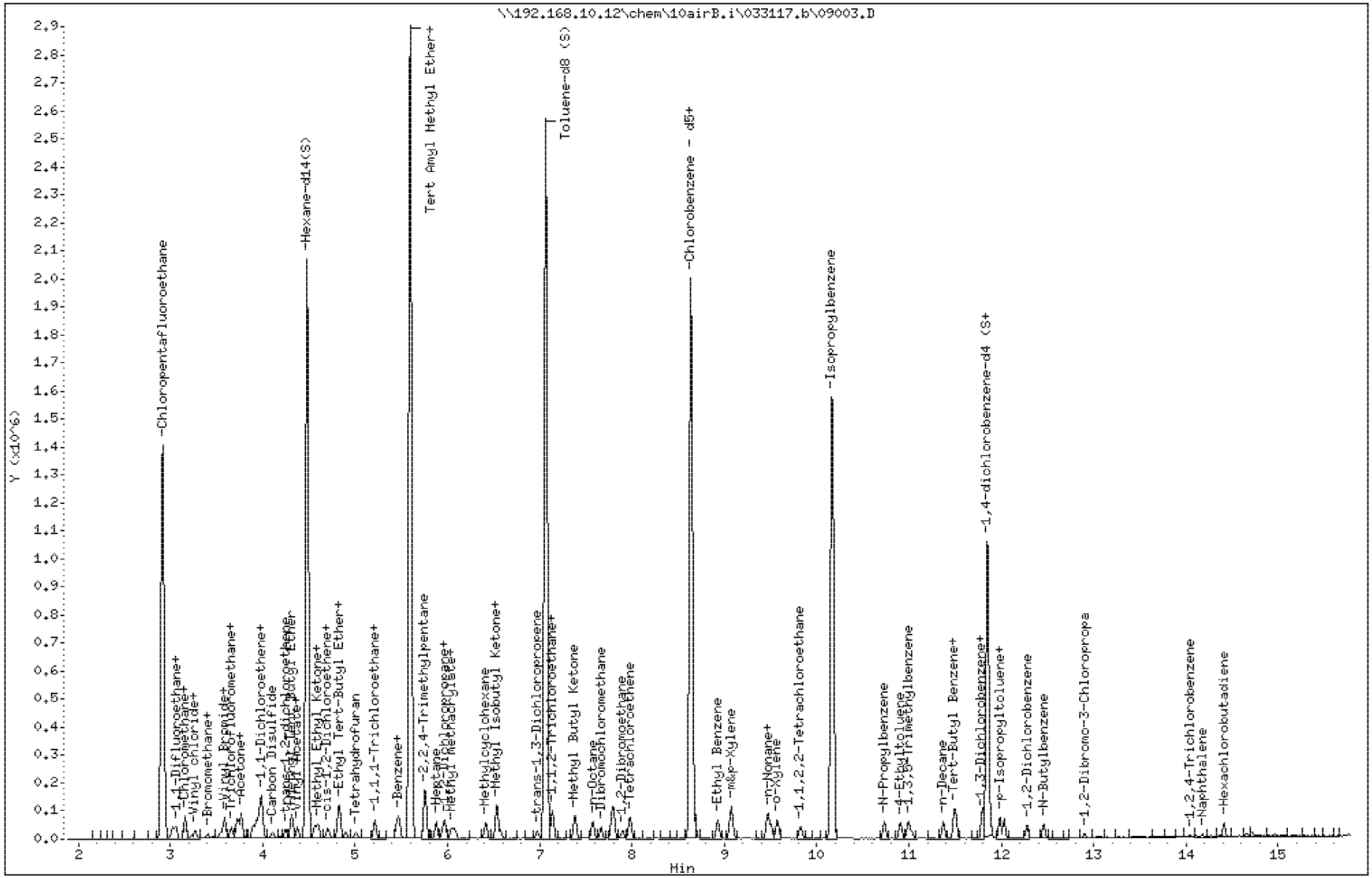
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1945833	0.47
67 Chlorobenzene - d	1173864	704318	1643410	1100629	-6.24

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.29
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

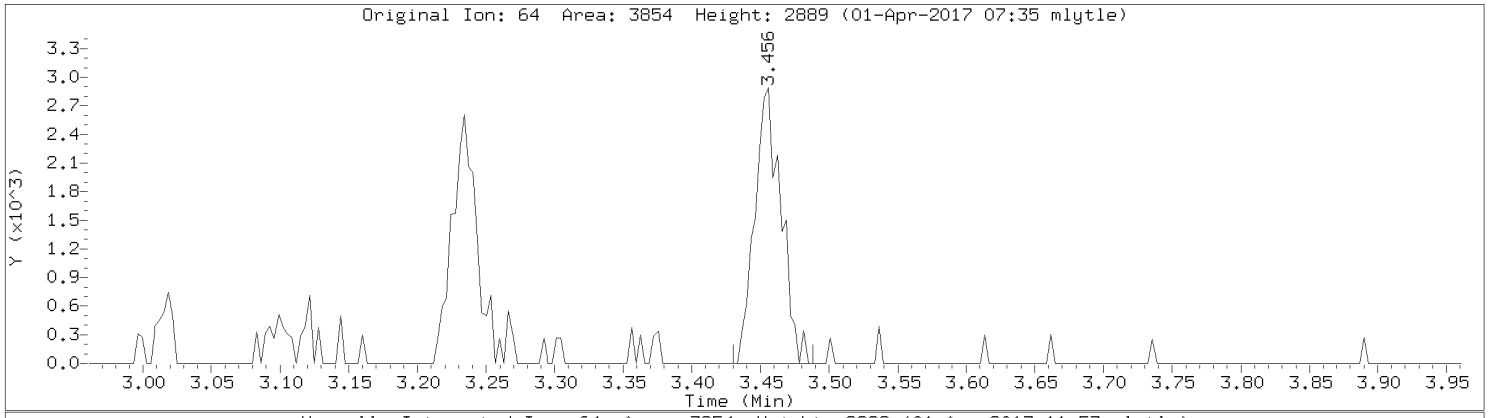
Data File: \\192.168.10.12\chem\10airB.i\033117.b\09003.D
Date : 31-MAR-2017 16:09
Client ID:
Sample Info:

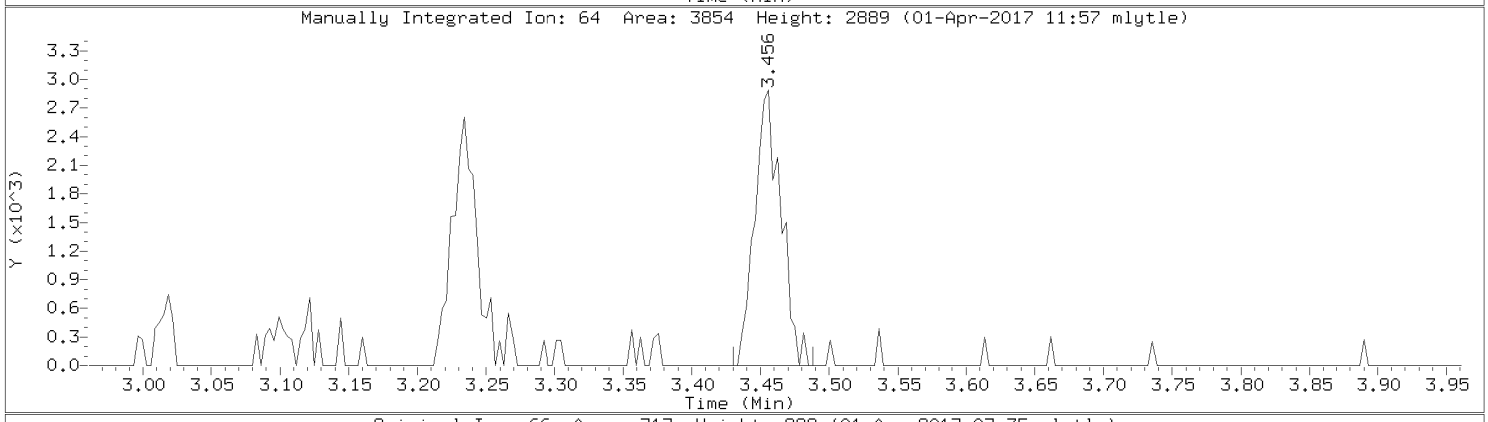
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

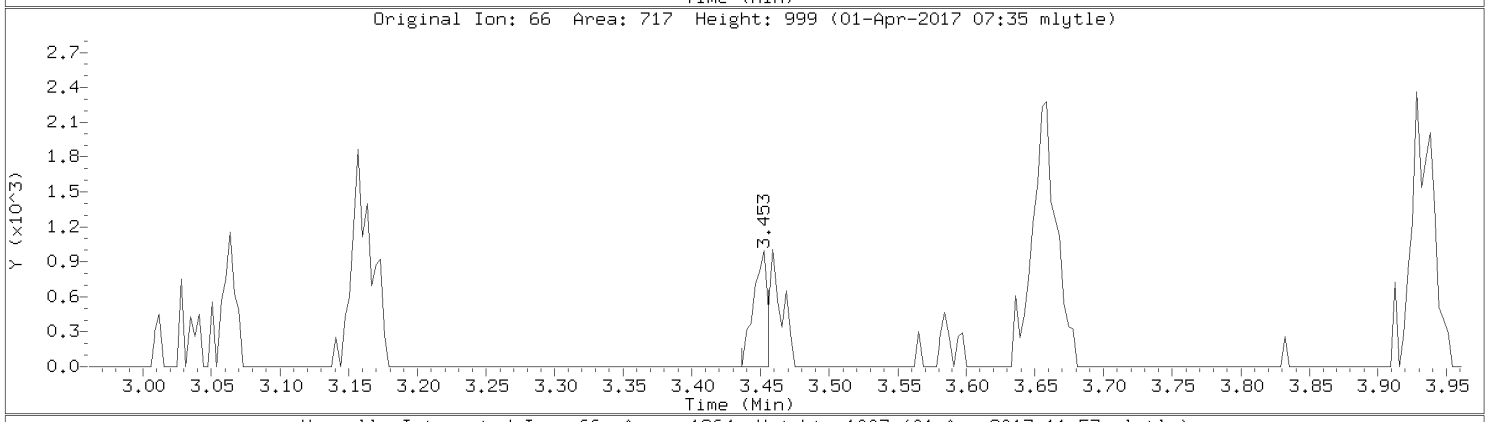


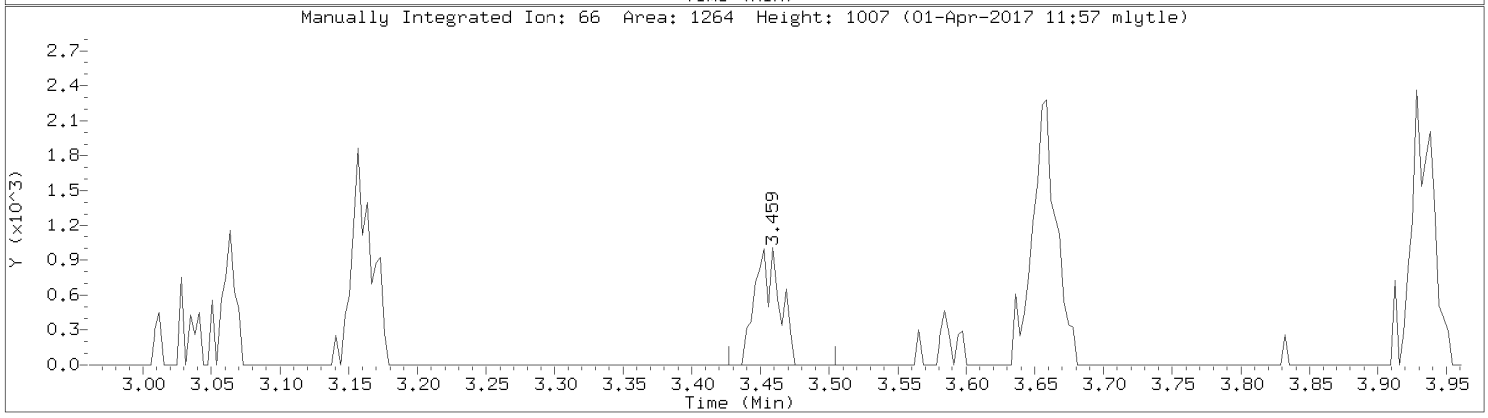
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: Chloroethane
CAS Number: 75-00-3



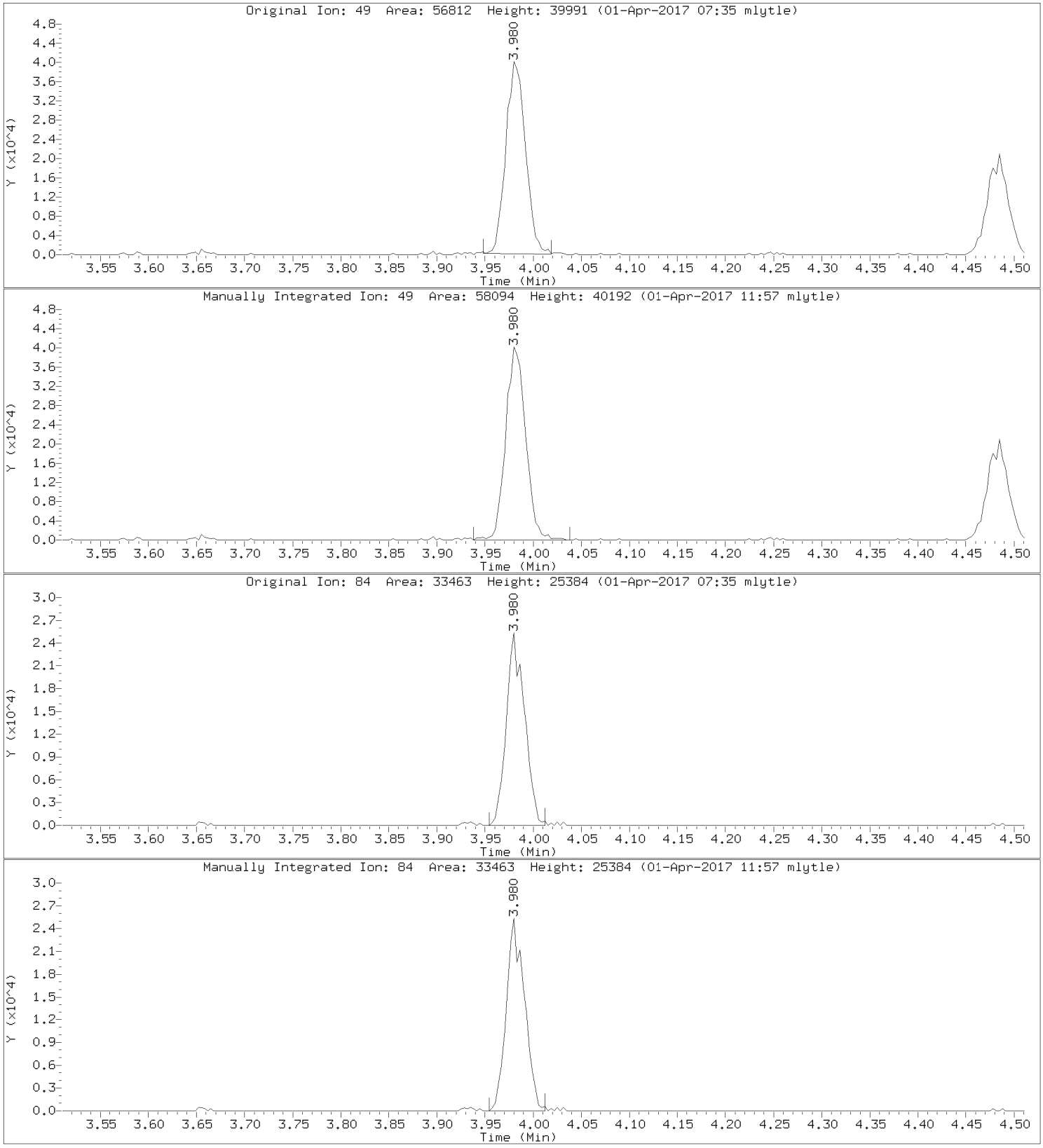




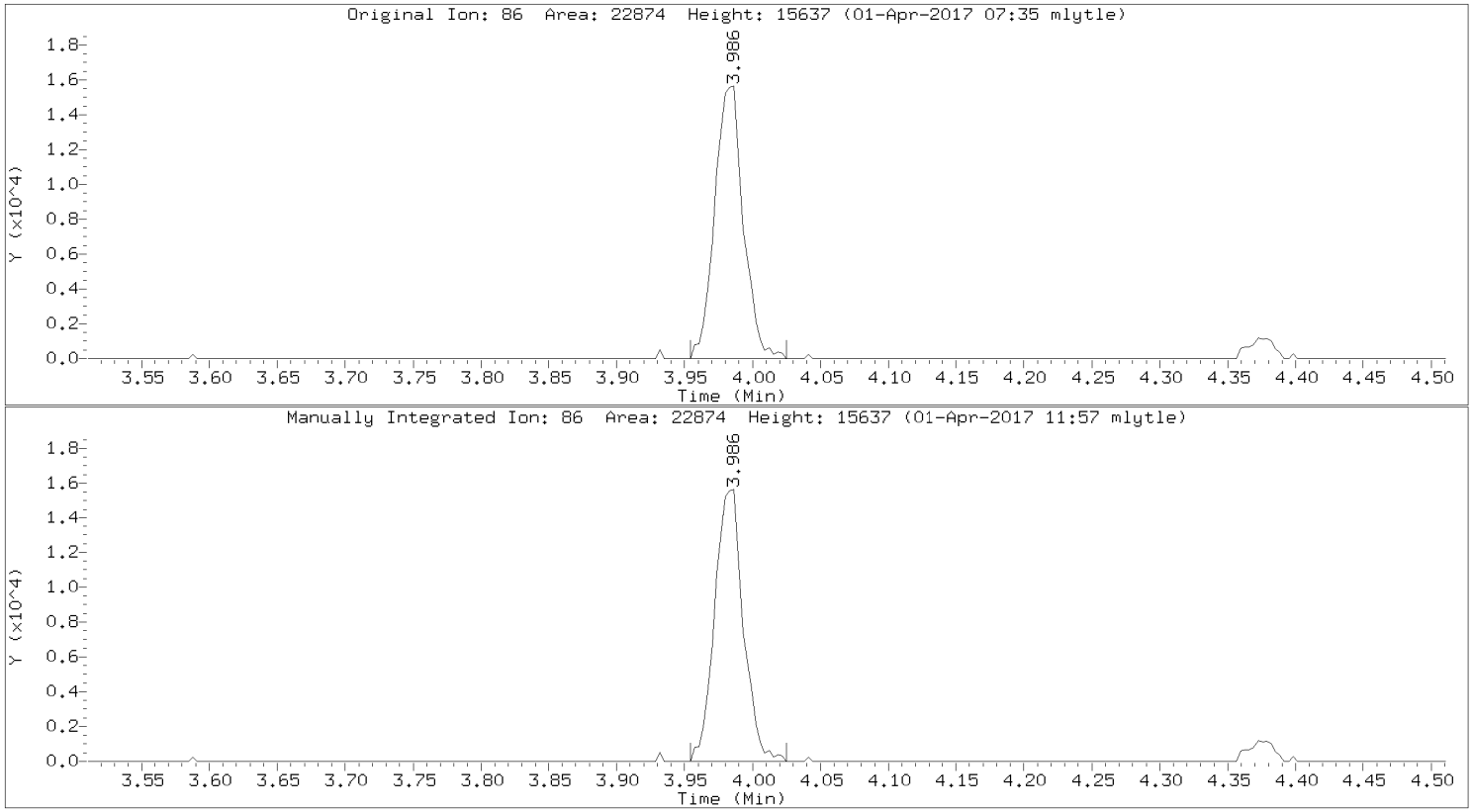


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: Methylene chloride
CAS Number: 75-09-2

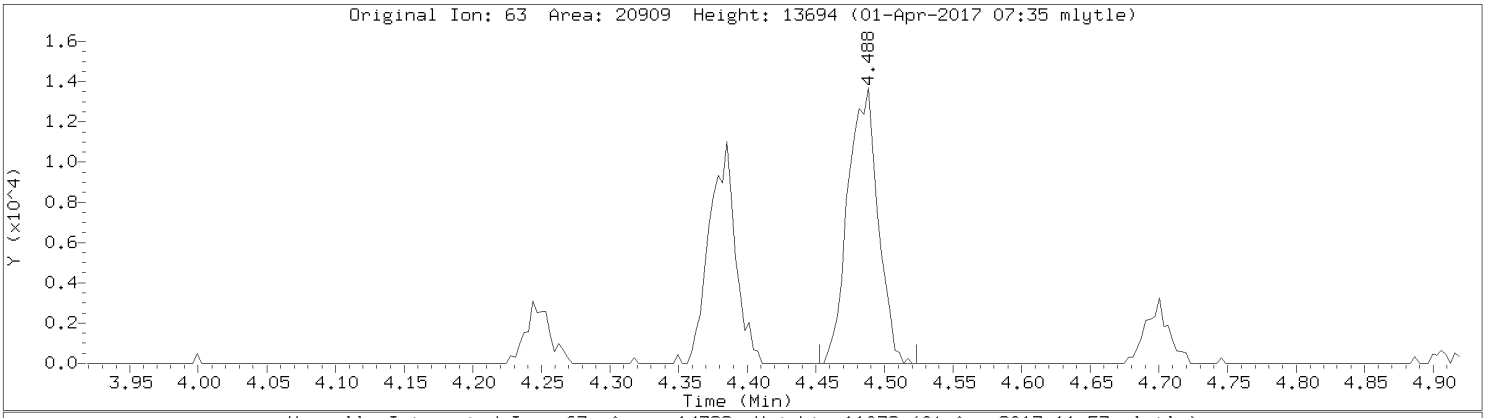


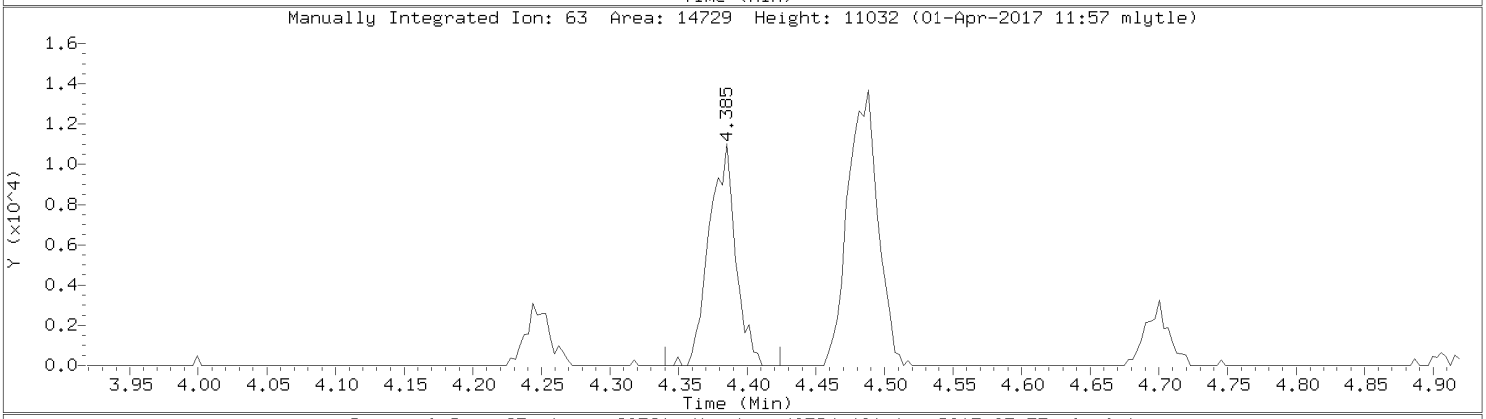
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

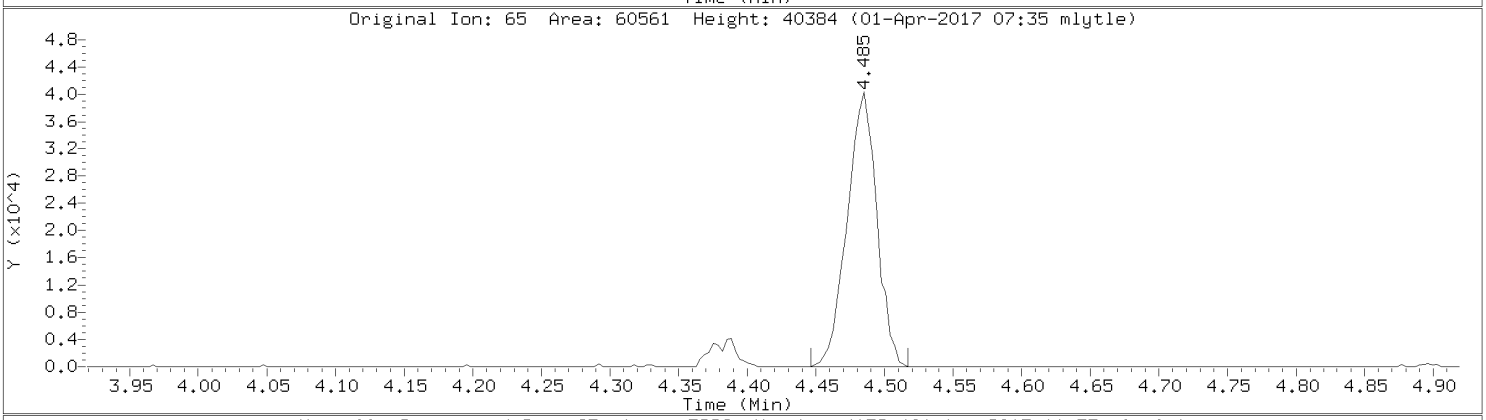


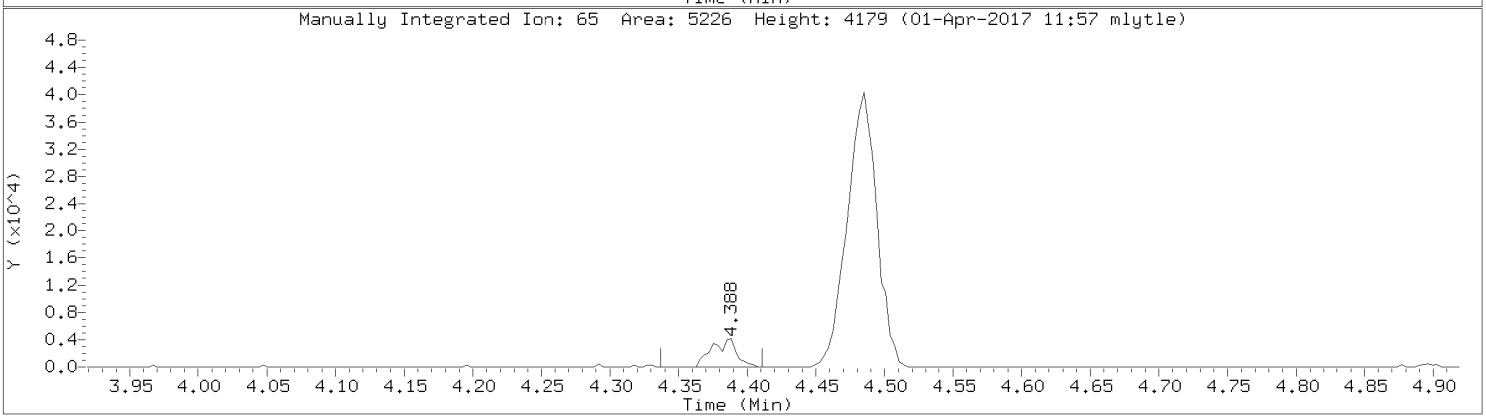
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: 1,1-Dichloroethane
CAS Number: 75-34-3



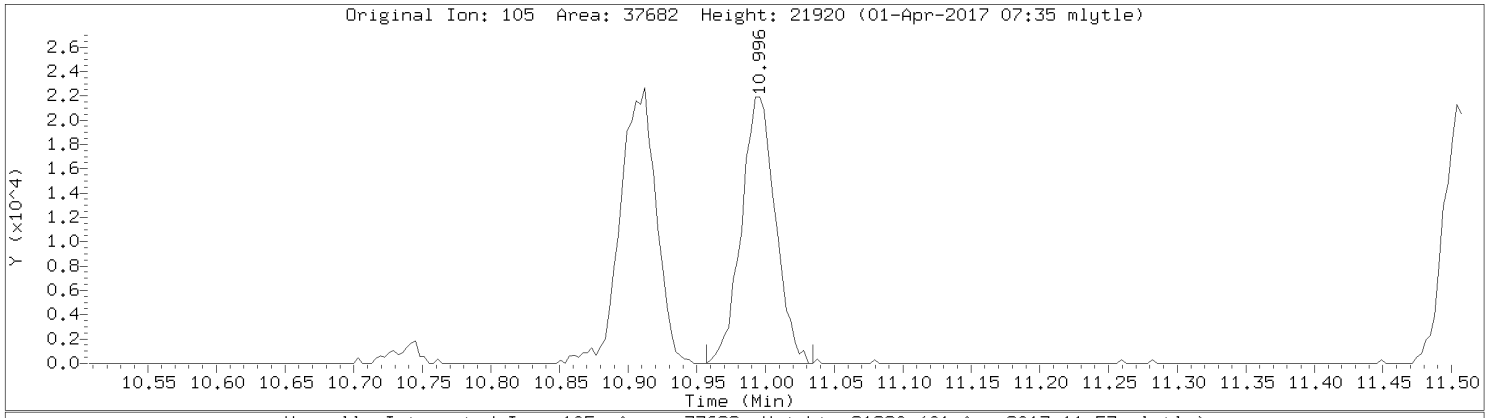


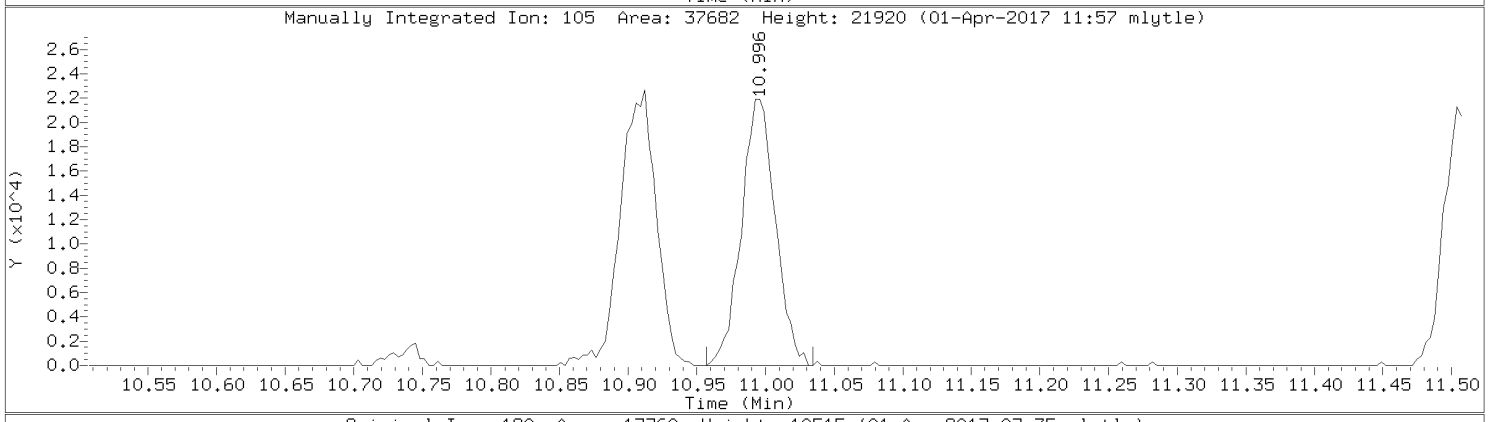


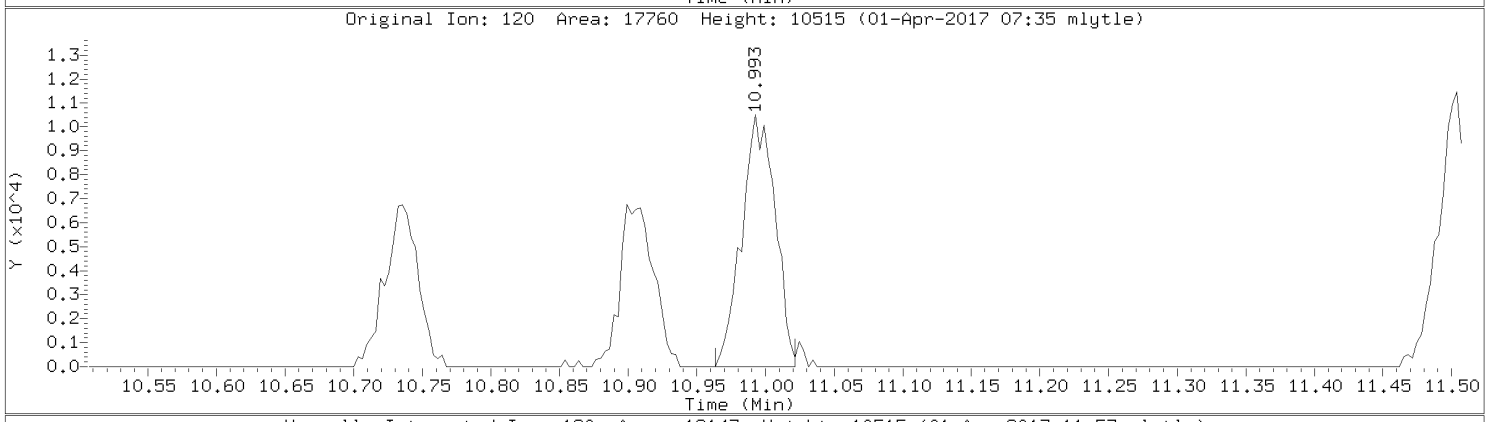


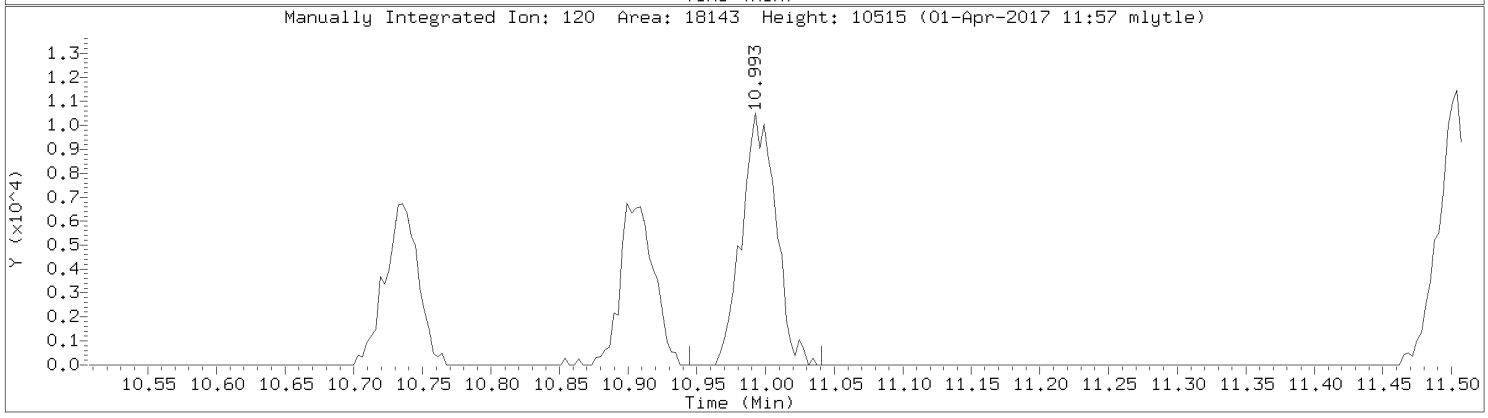
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



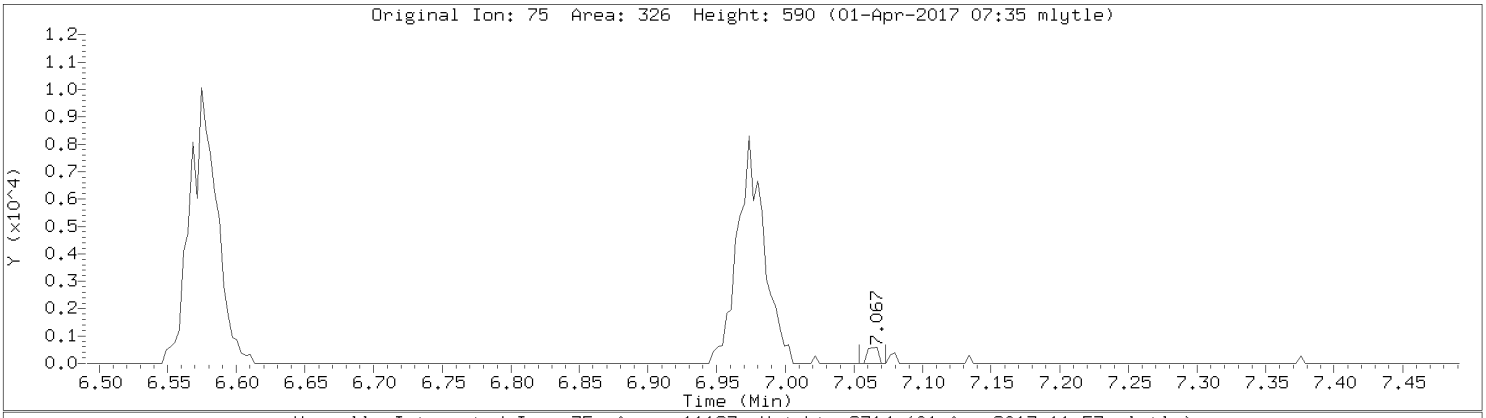


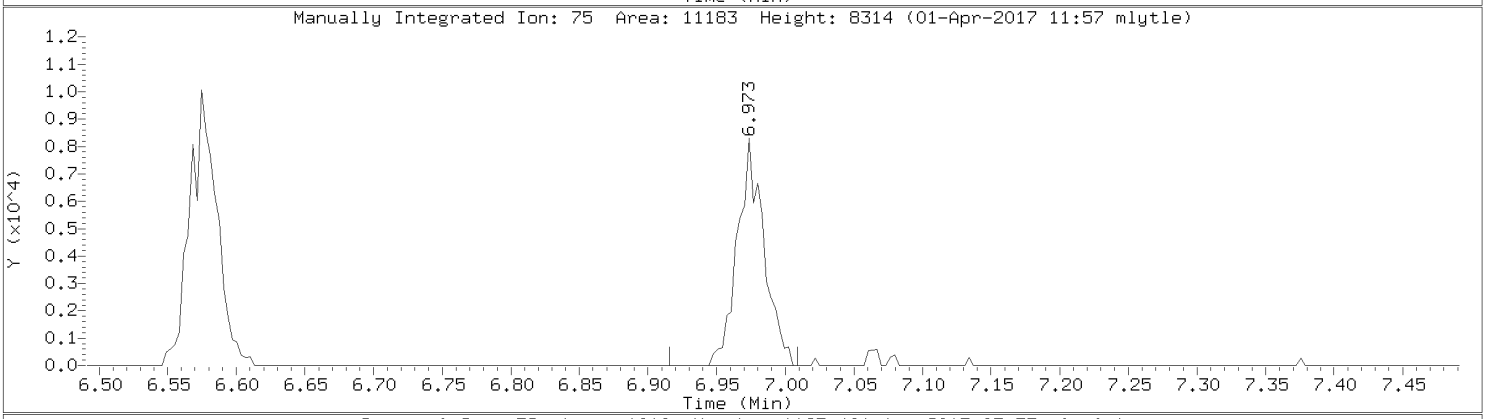


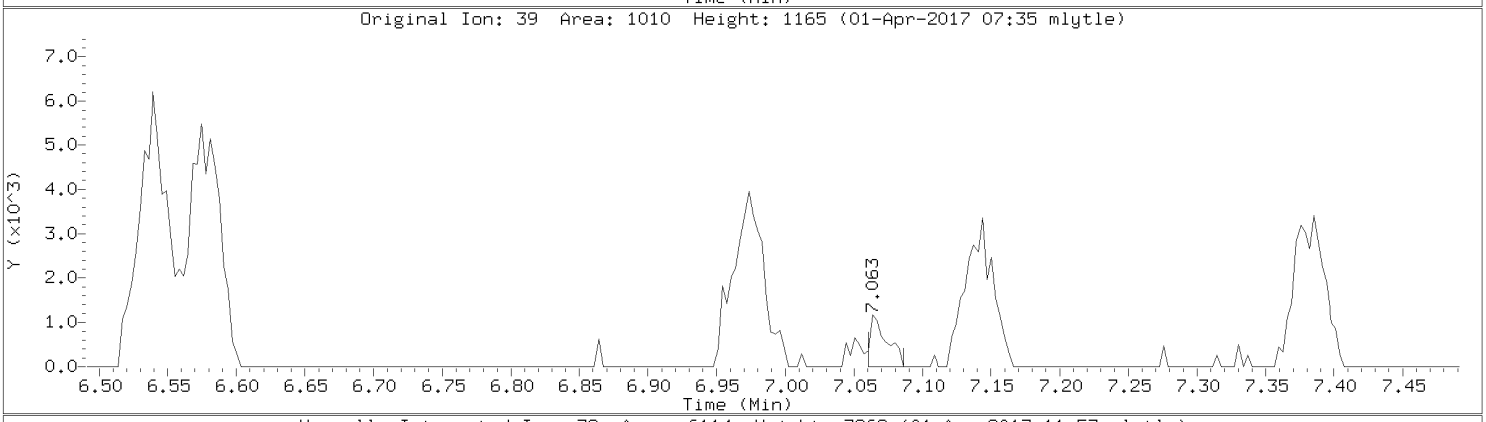


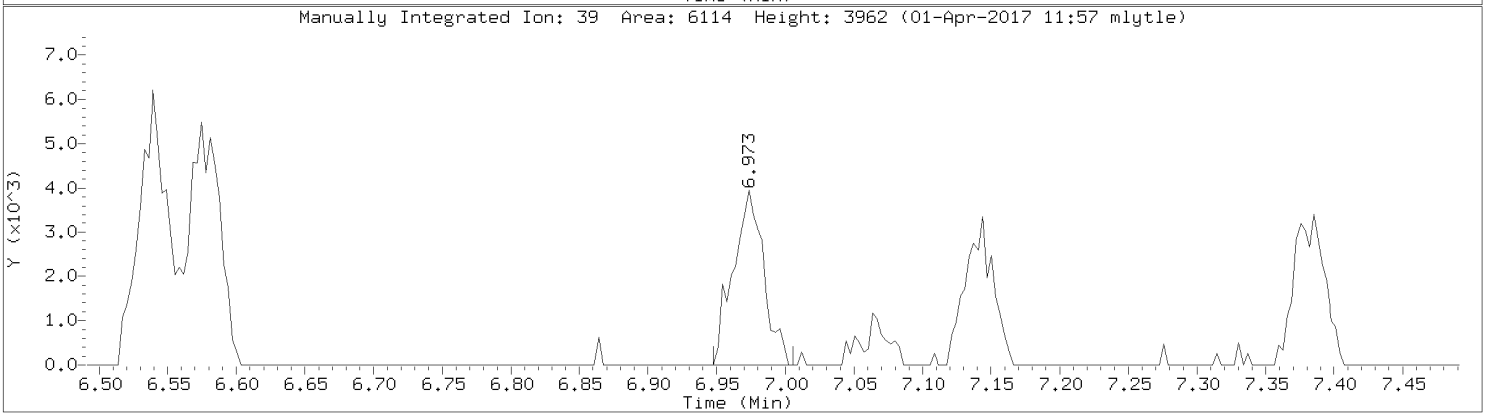
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

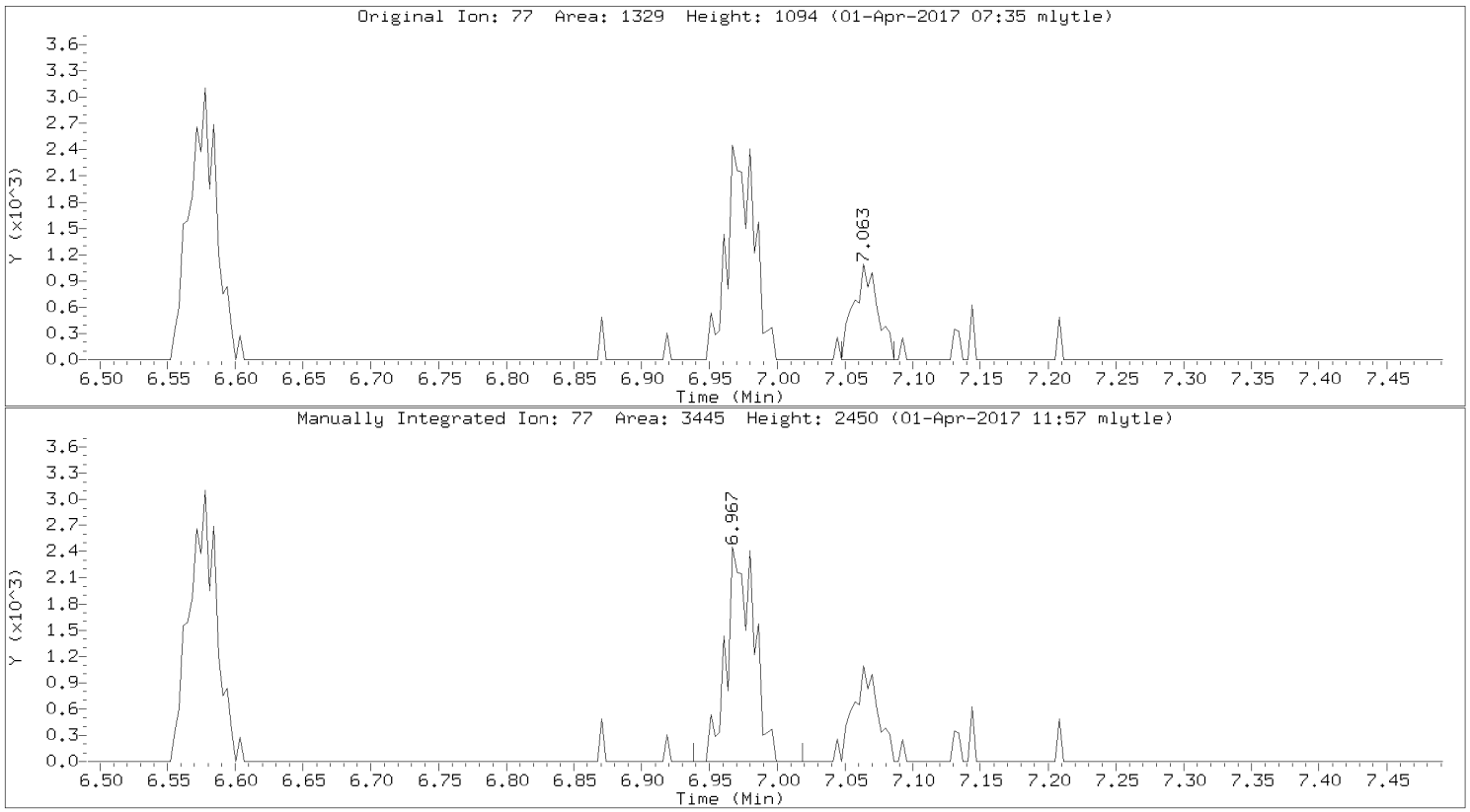






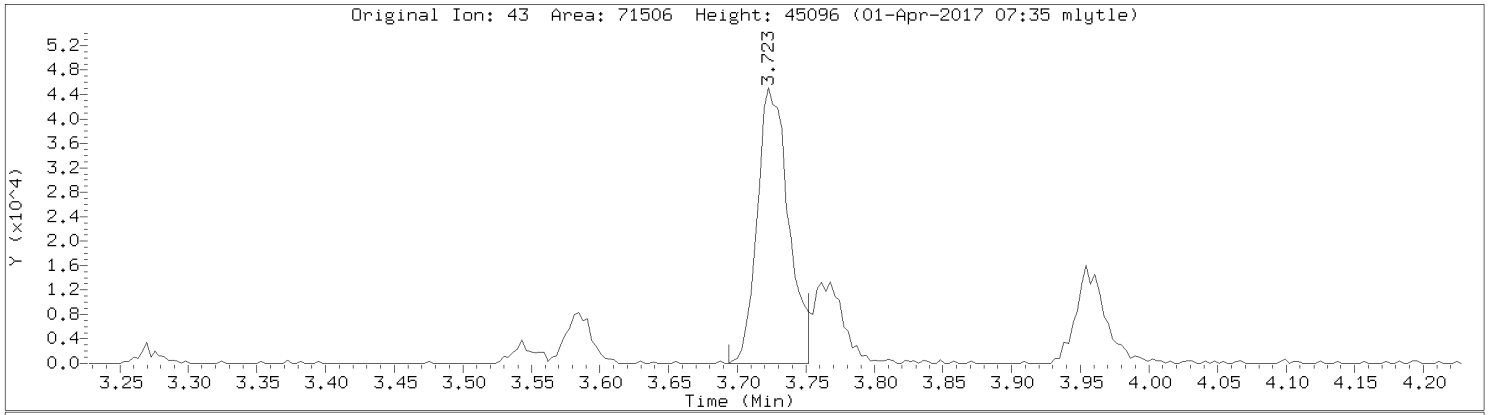


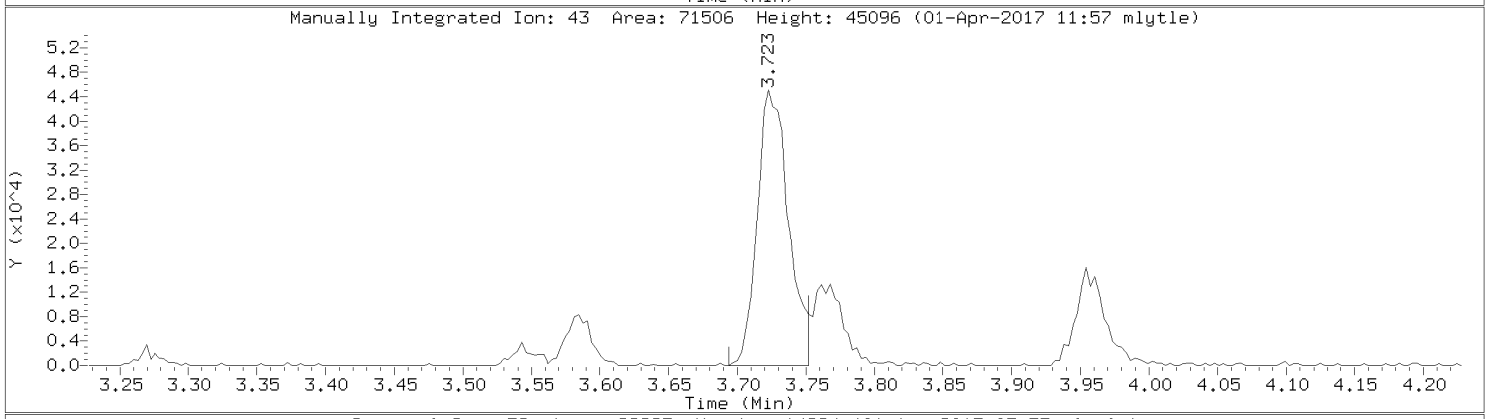
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

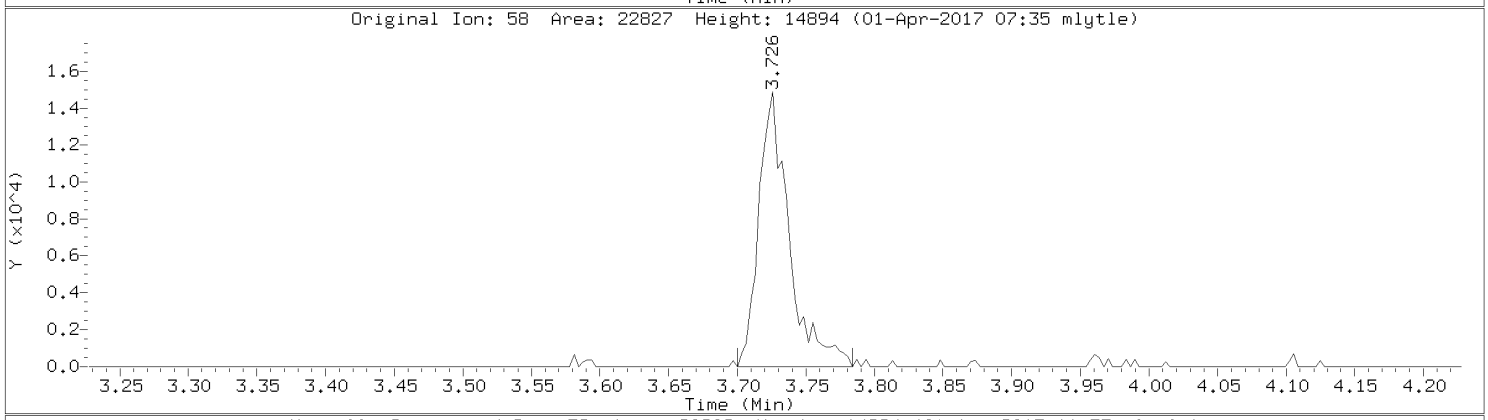


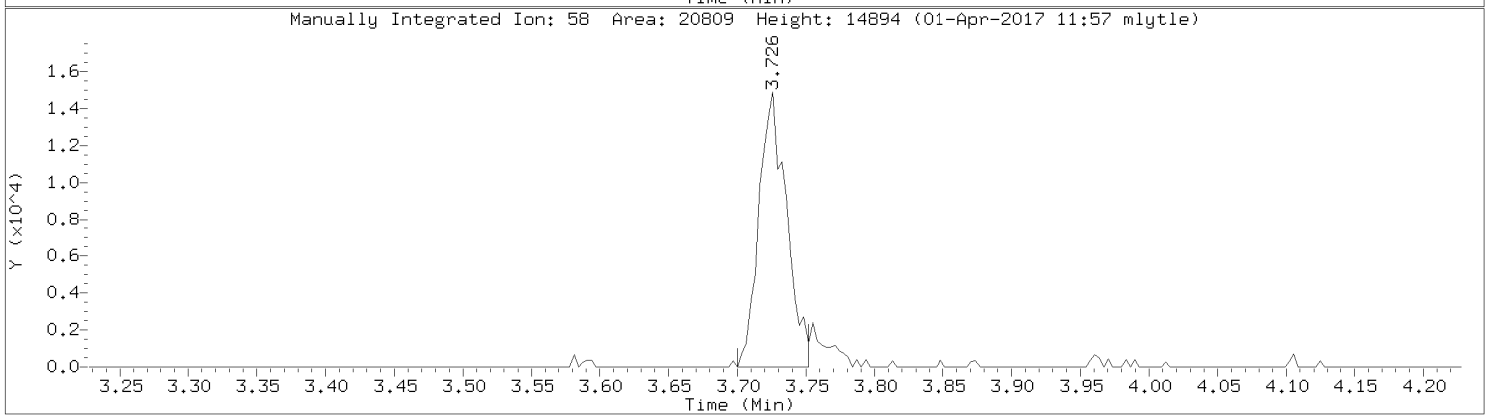
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: Acetone
CAS Number: 67-64-1



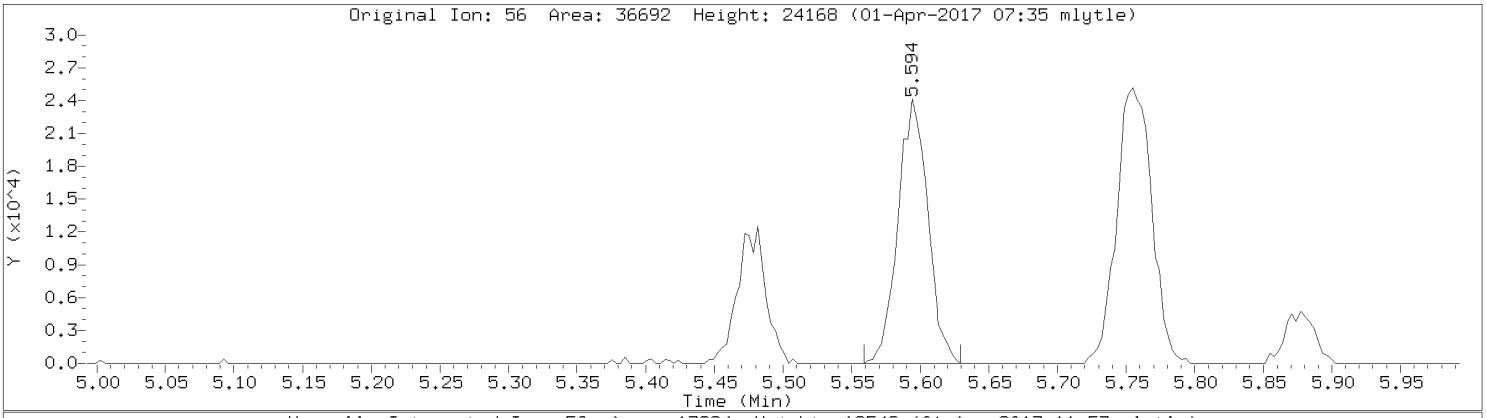


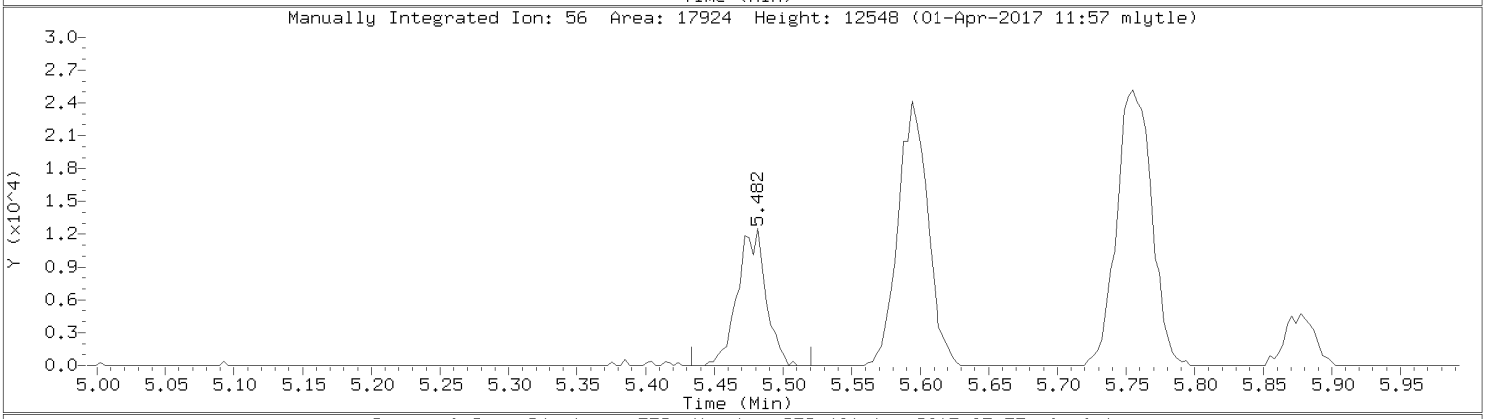


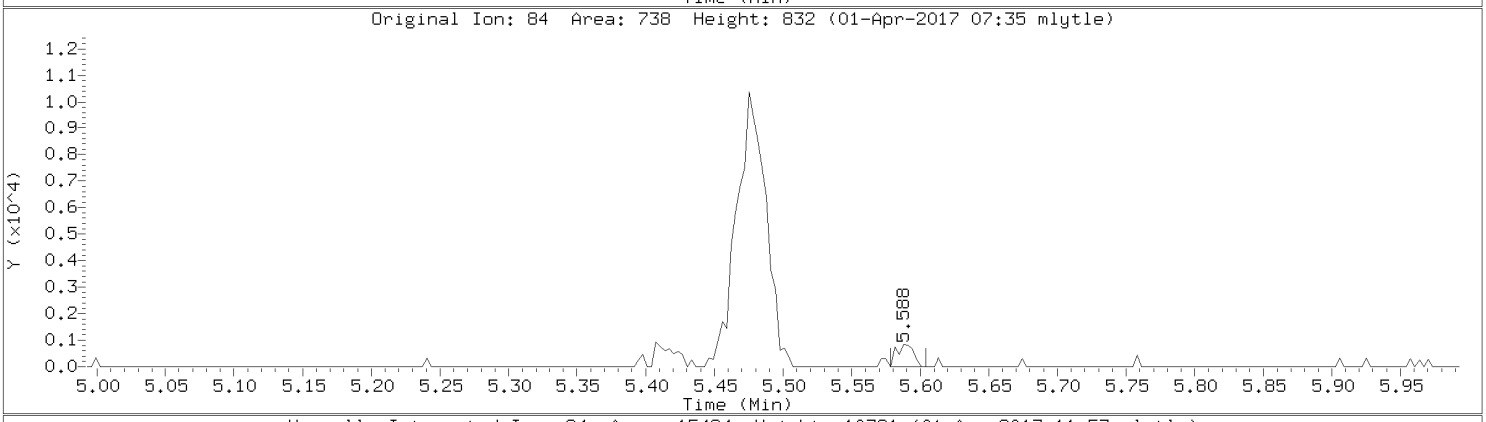


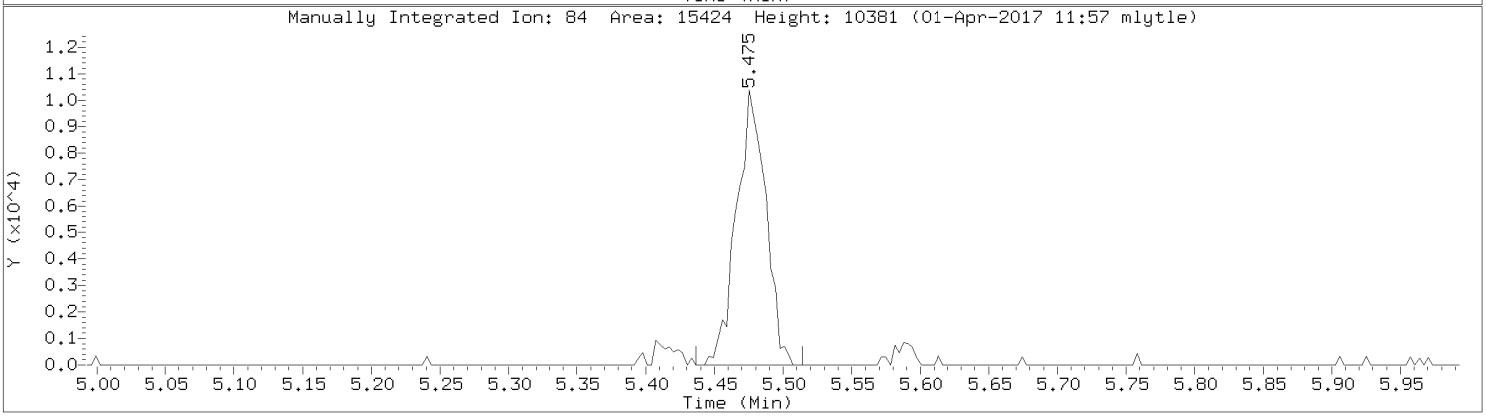
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: Cyclohexane
CAS Number: 110-82-7

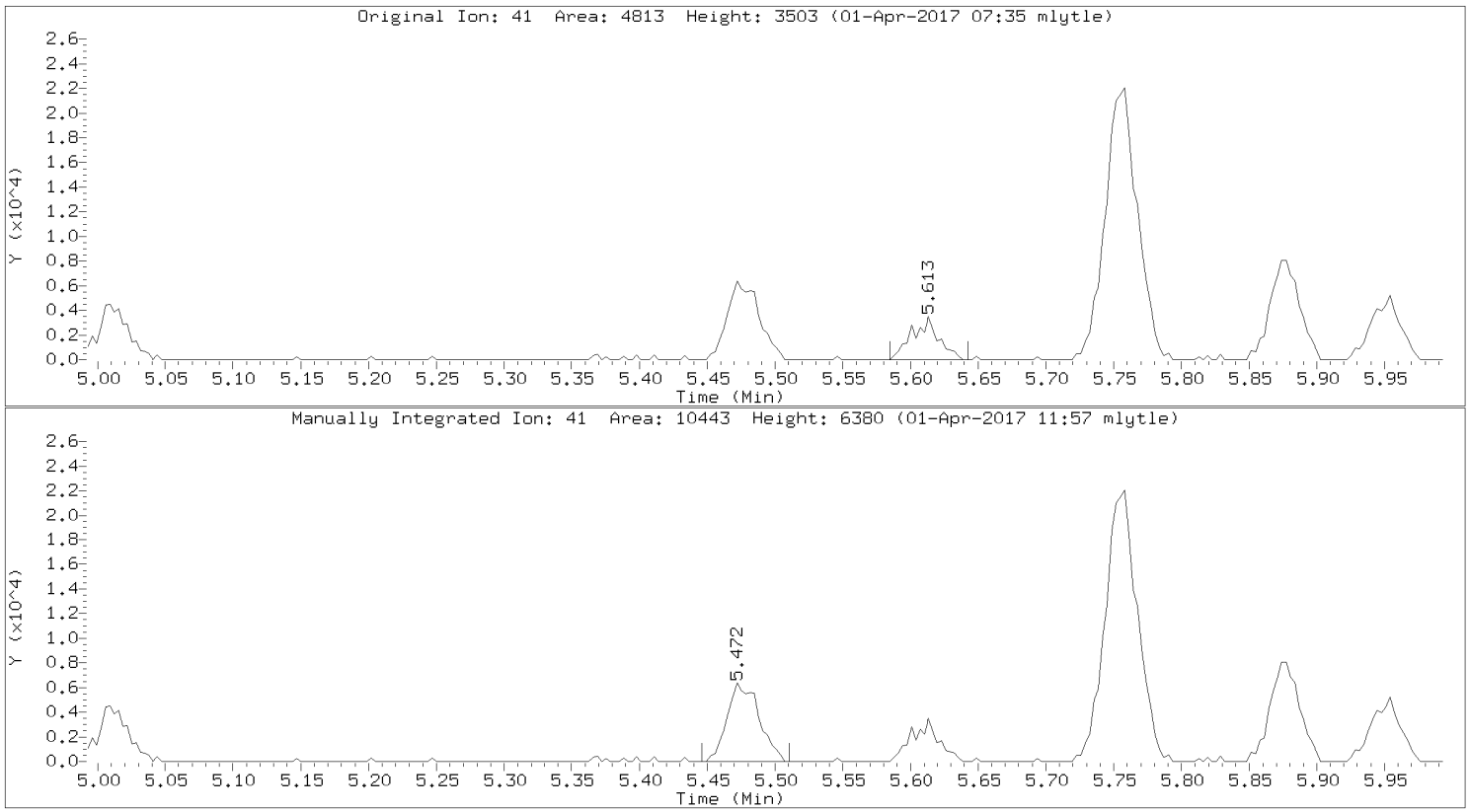






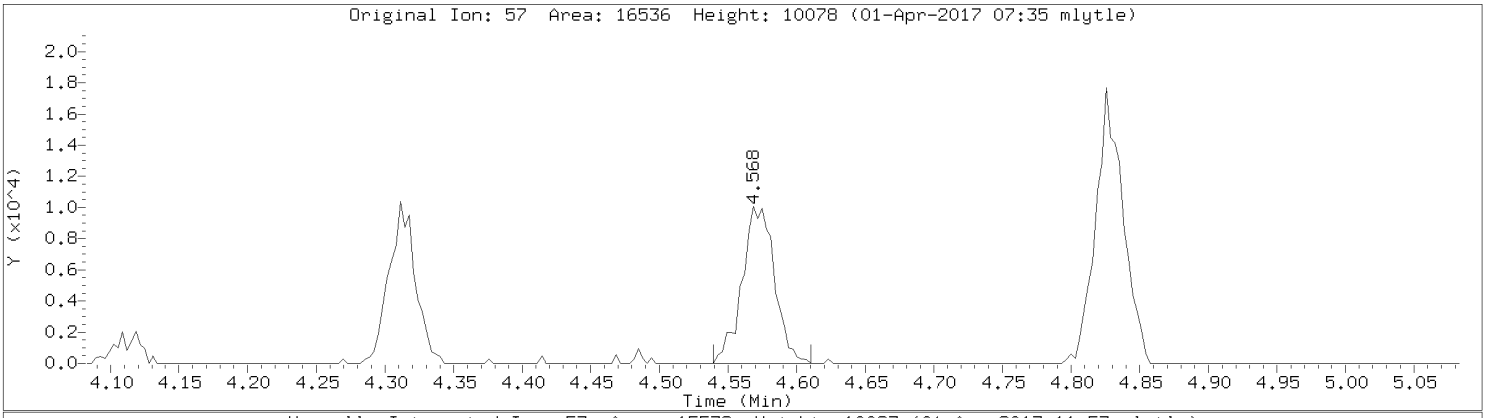


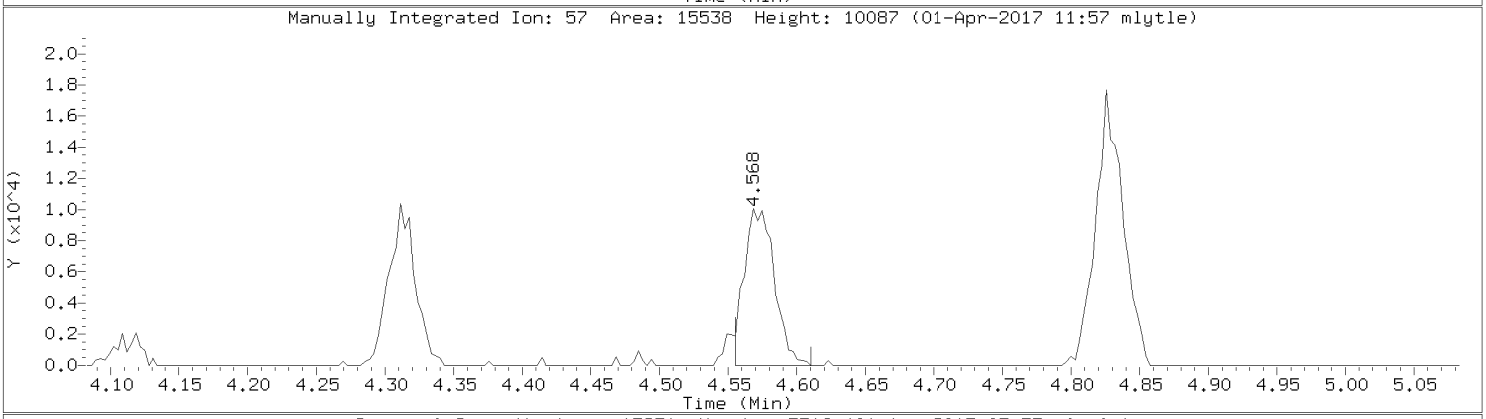
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

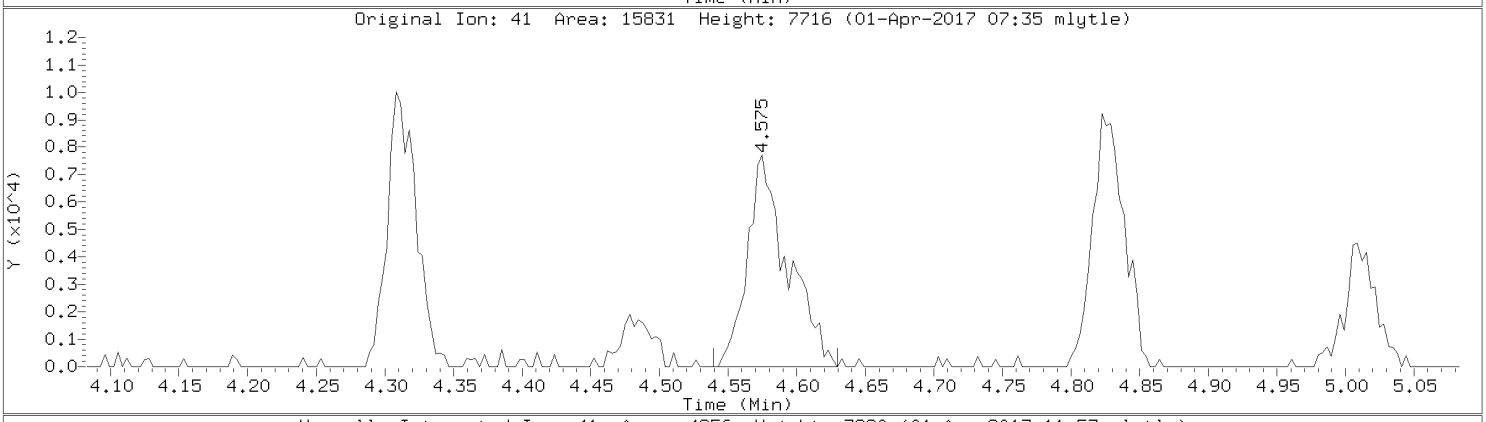


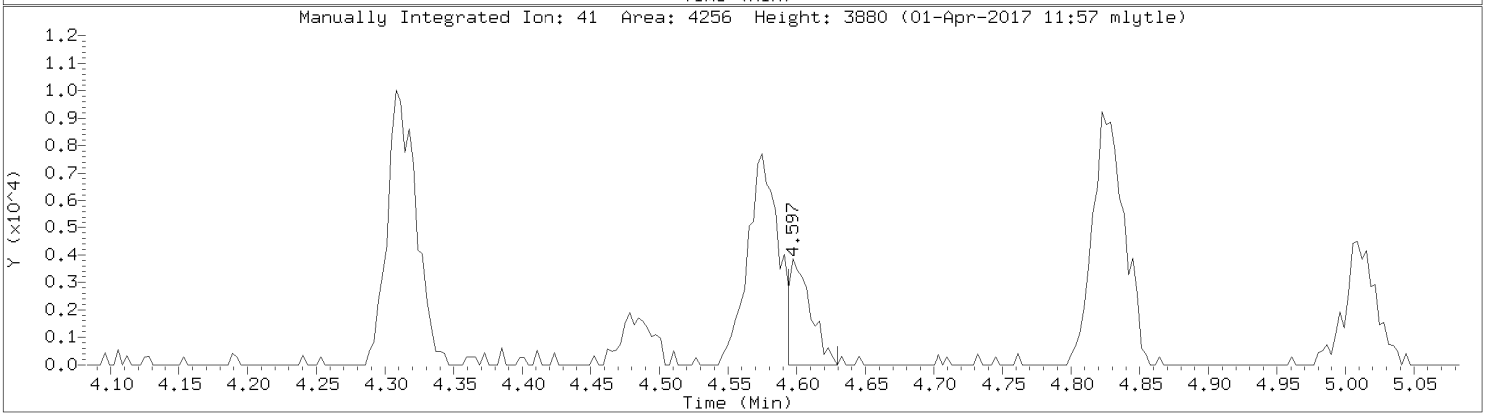
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: n-Hexane
CAS Number: 110-54-3

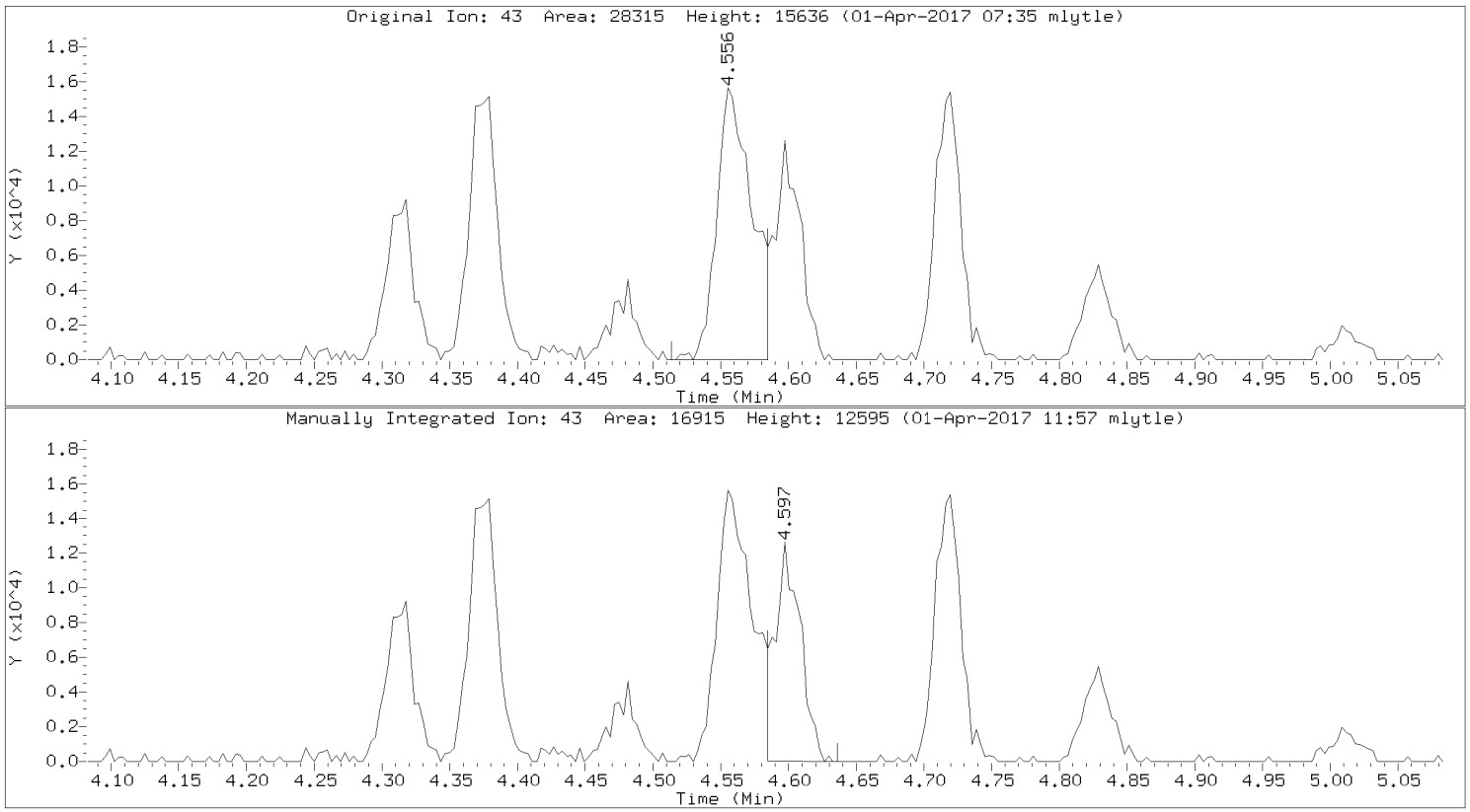






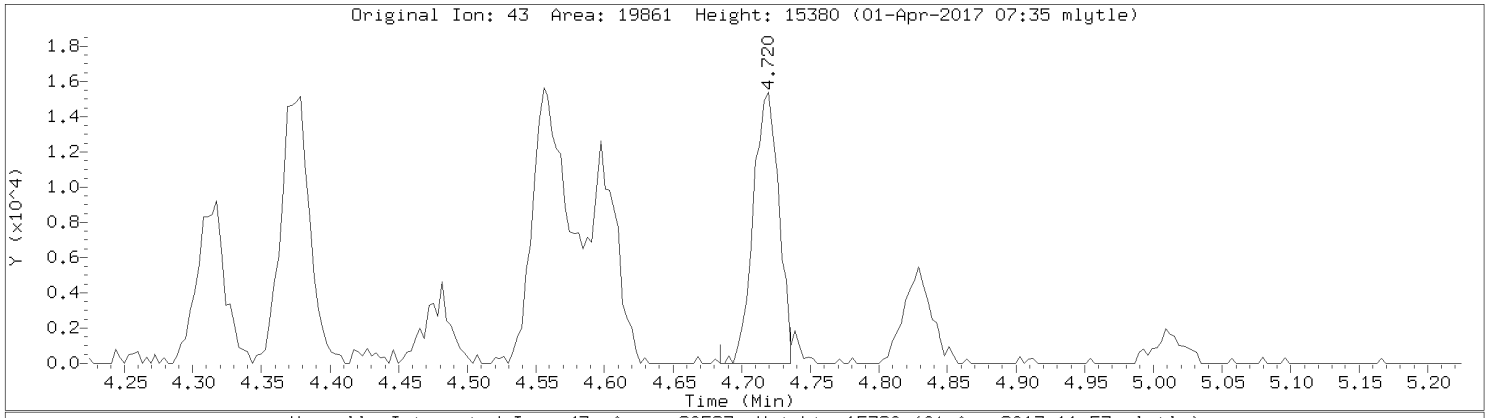


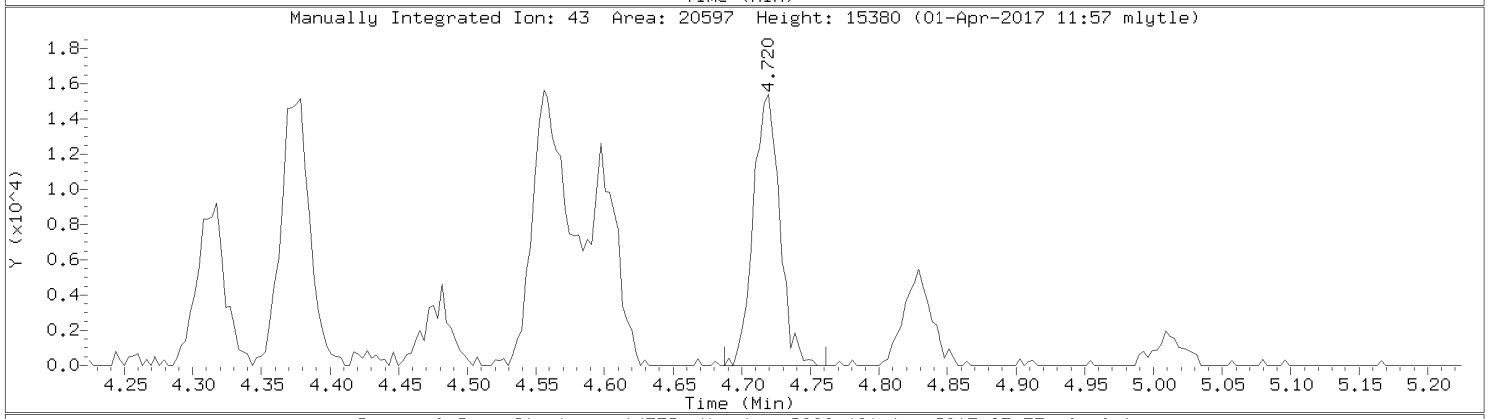
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

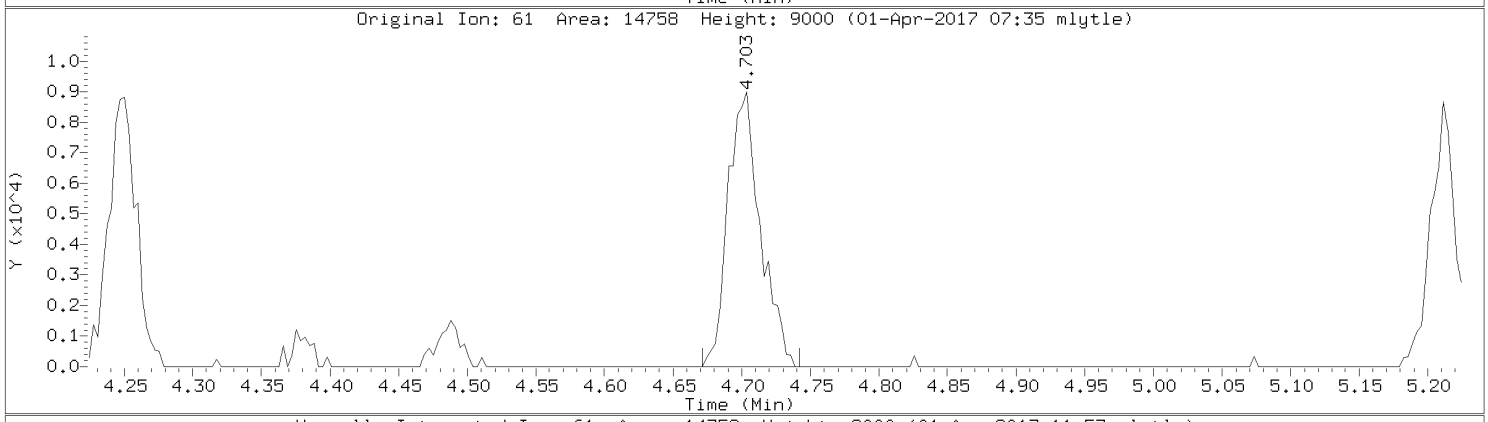


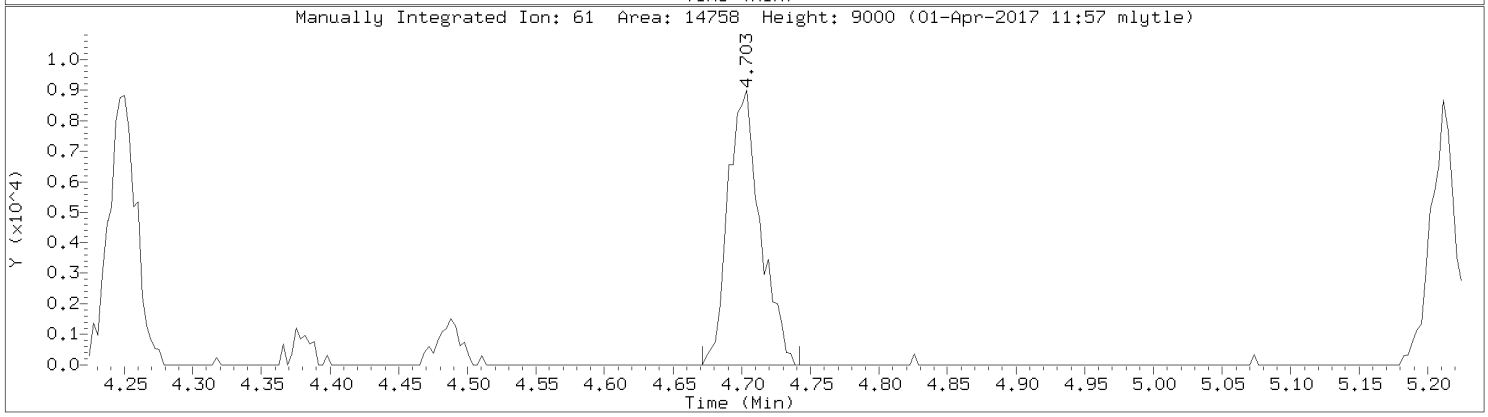
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: Ethyl Acetate
CAS Number: 141-78-6

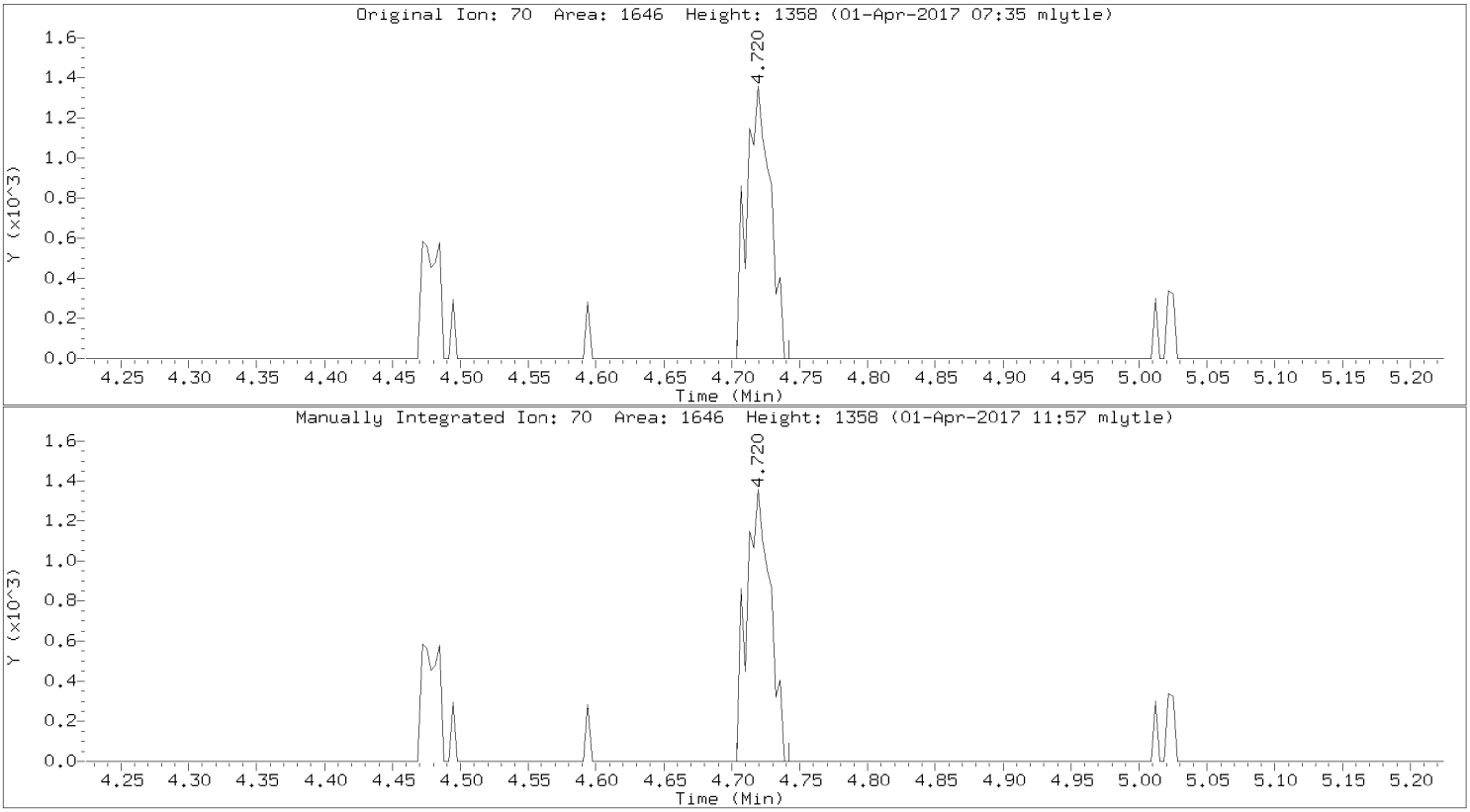






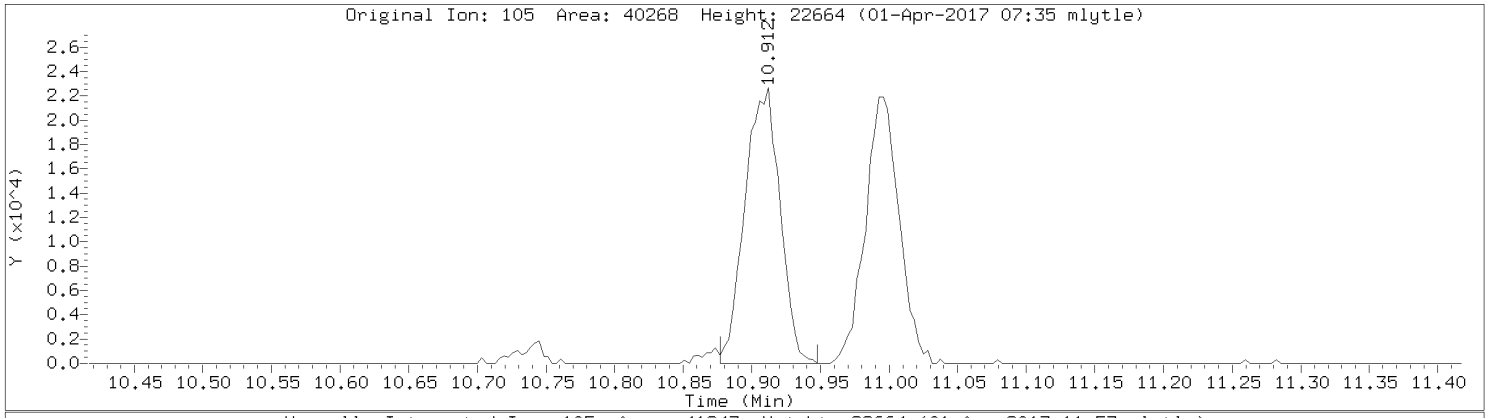


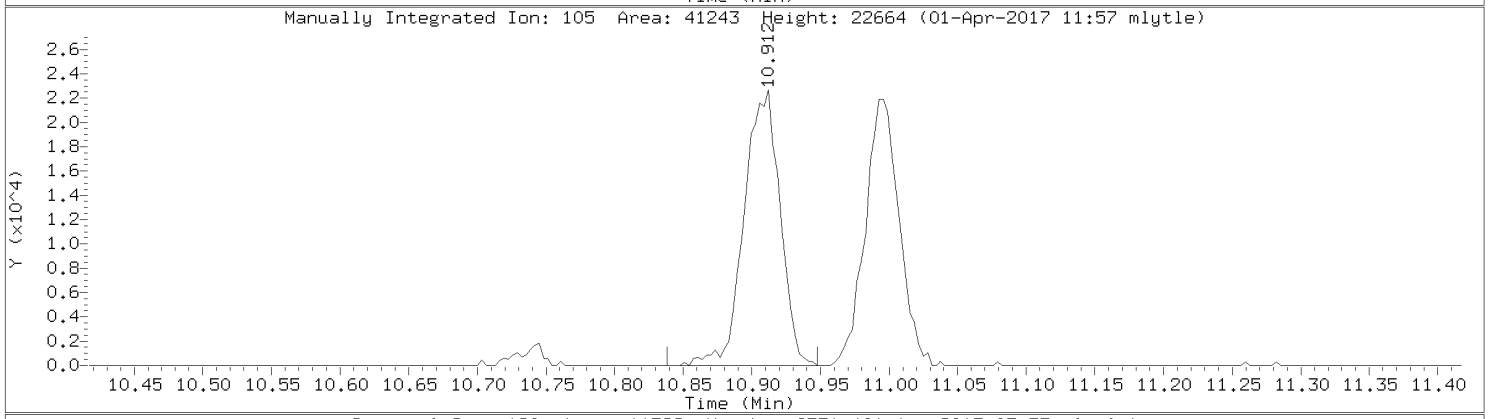
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

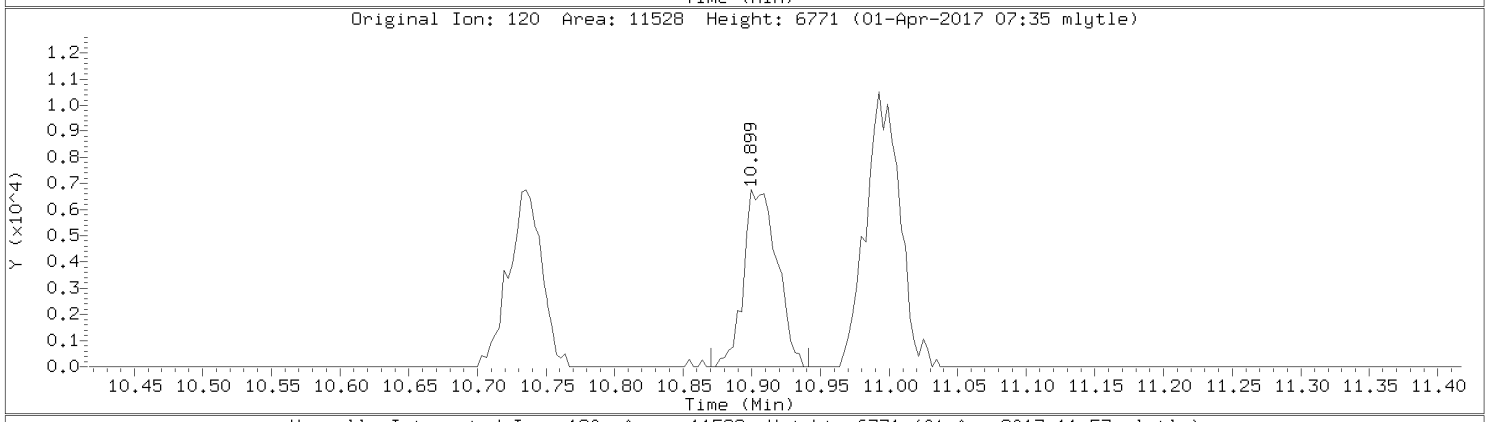


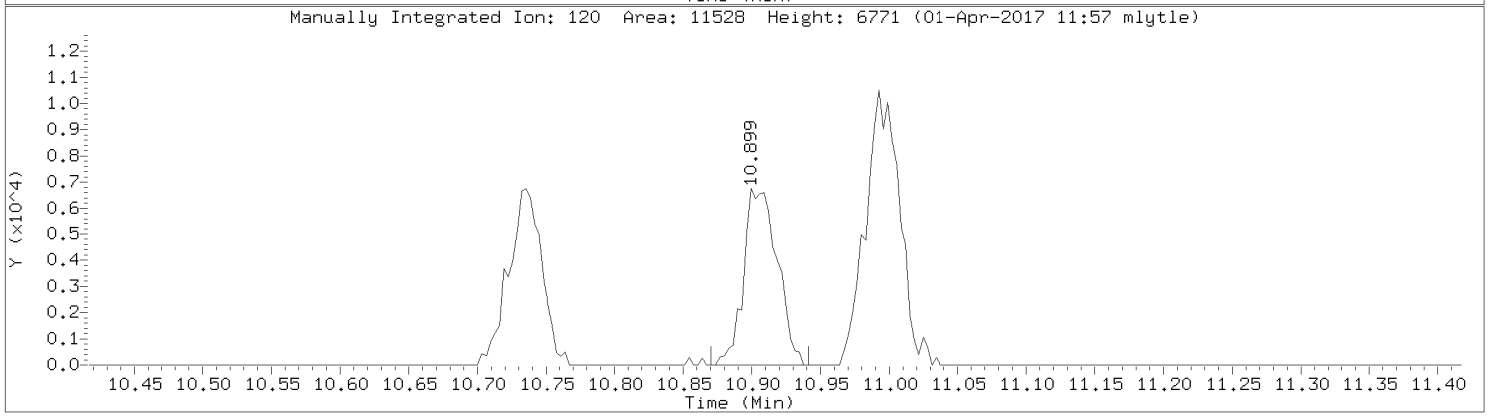
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

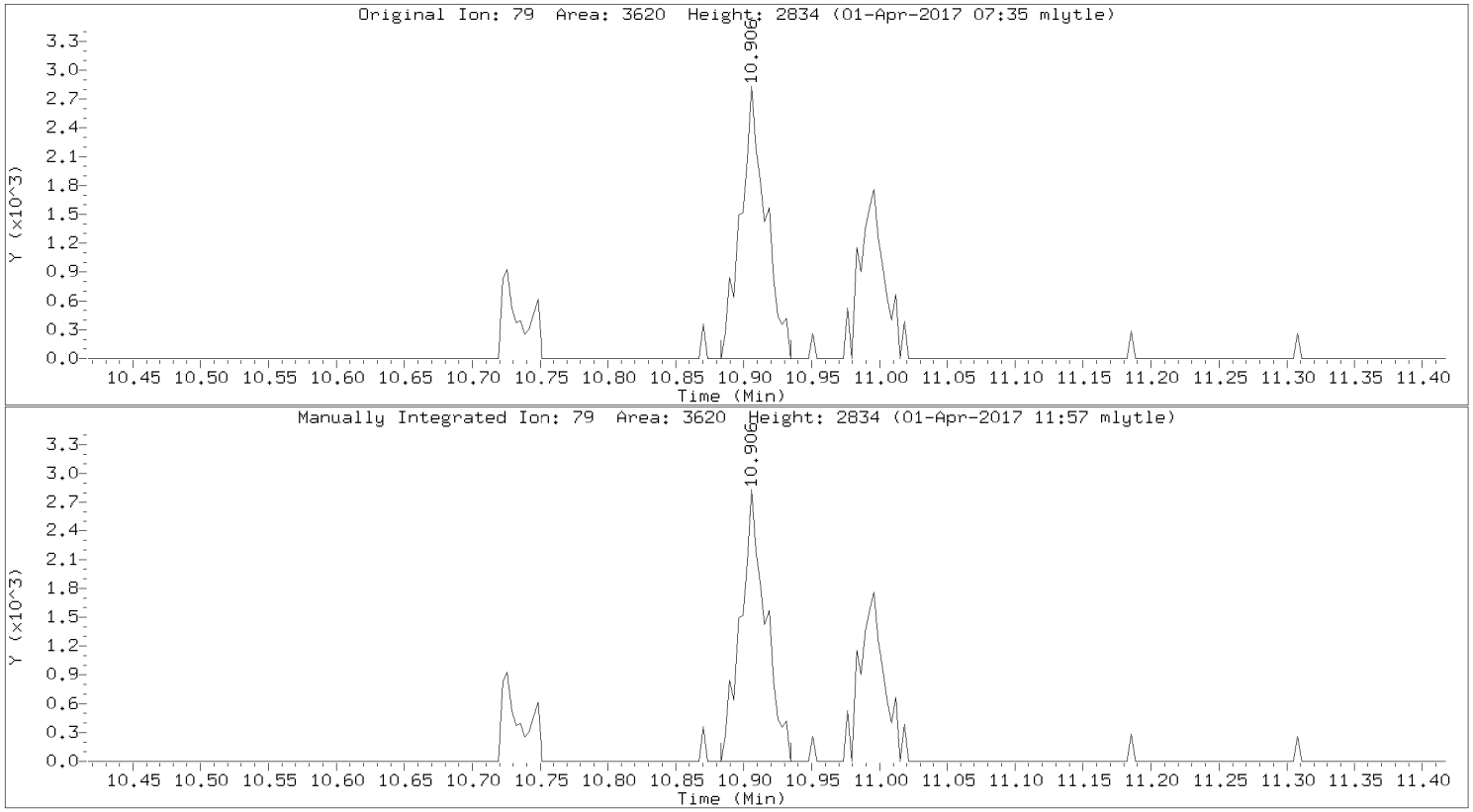






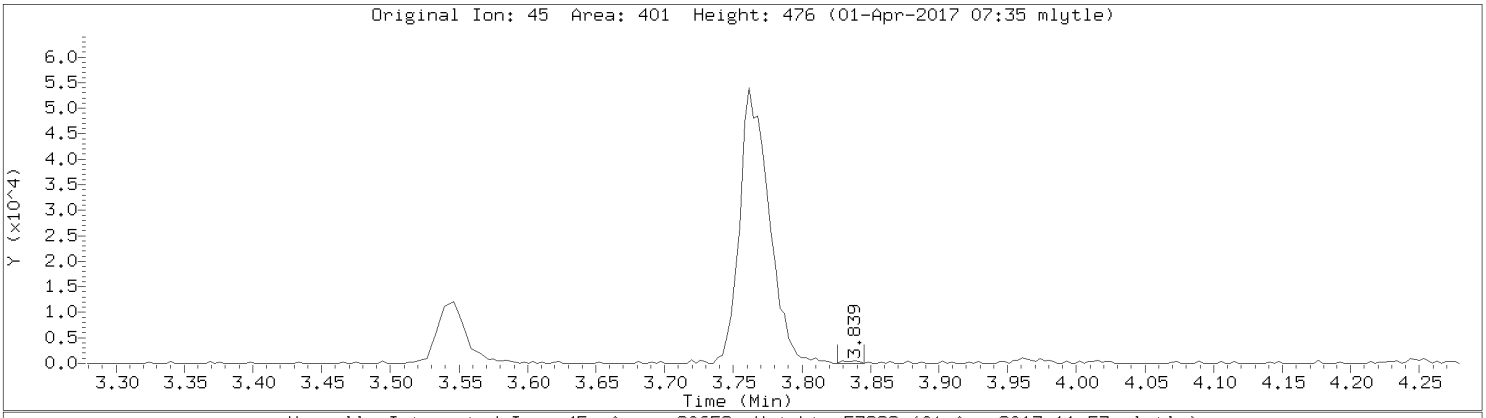


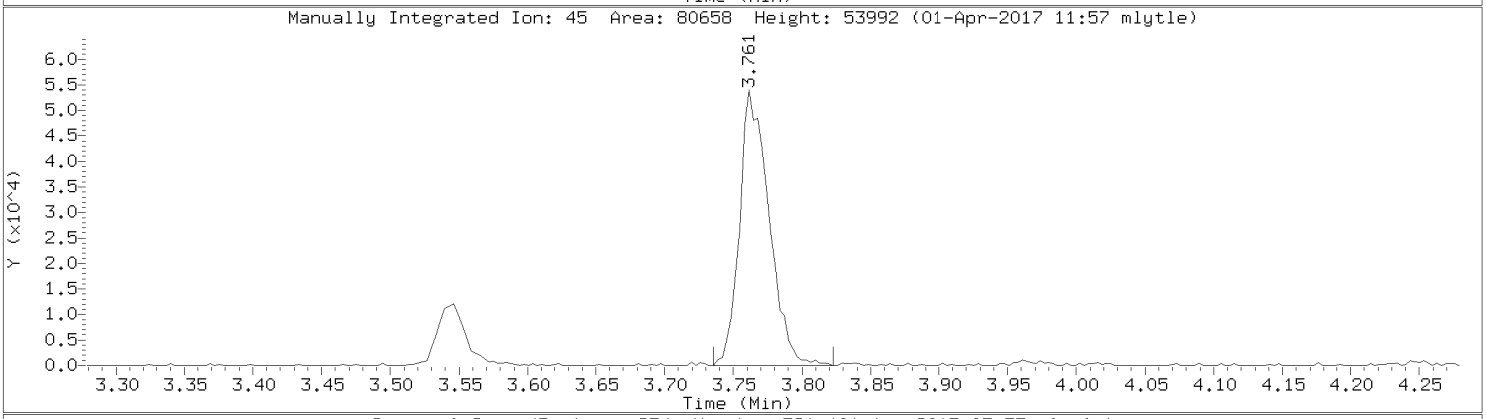
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

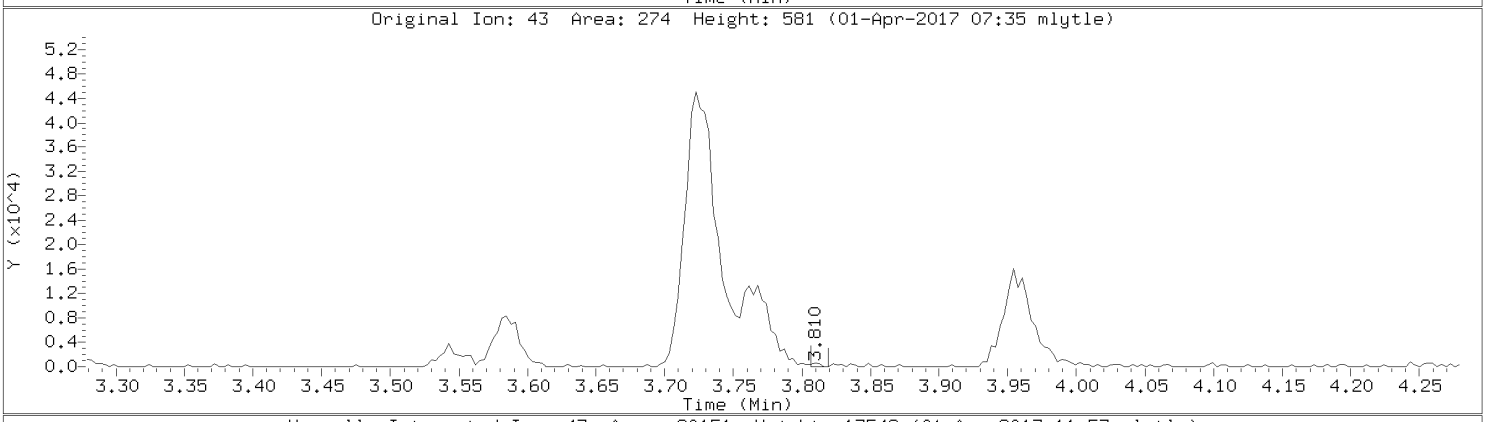


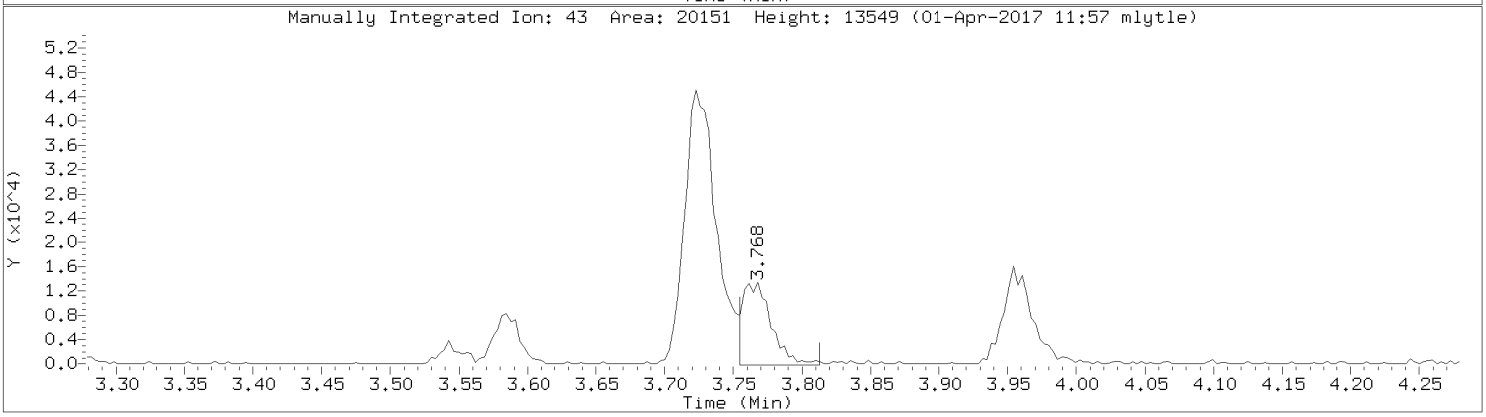
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



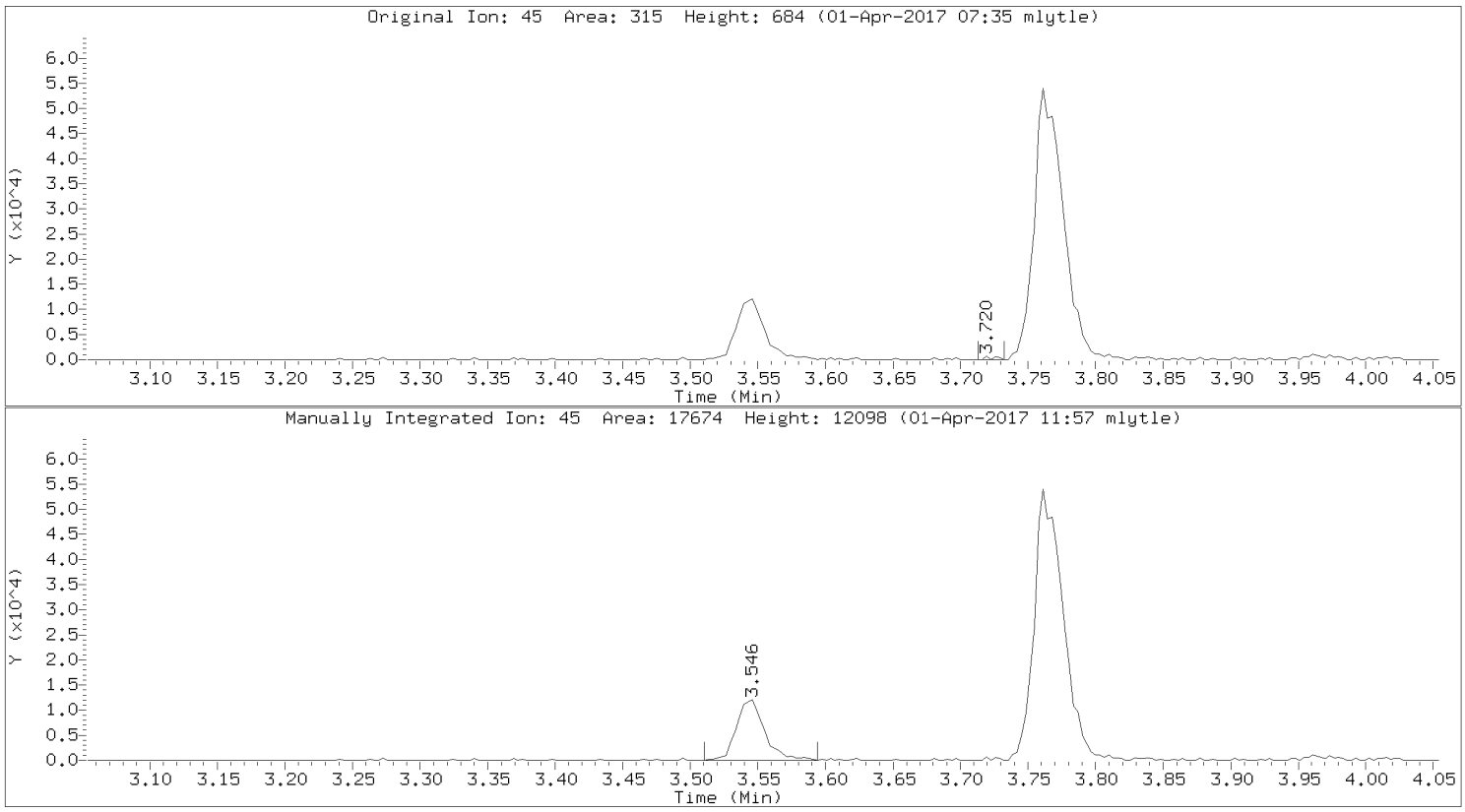






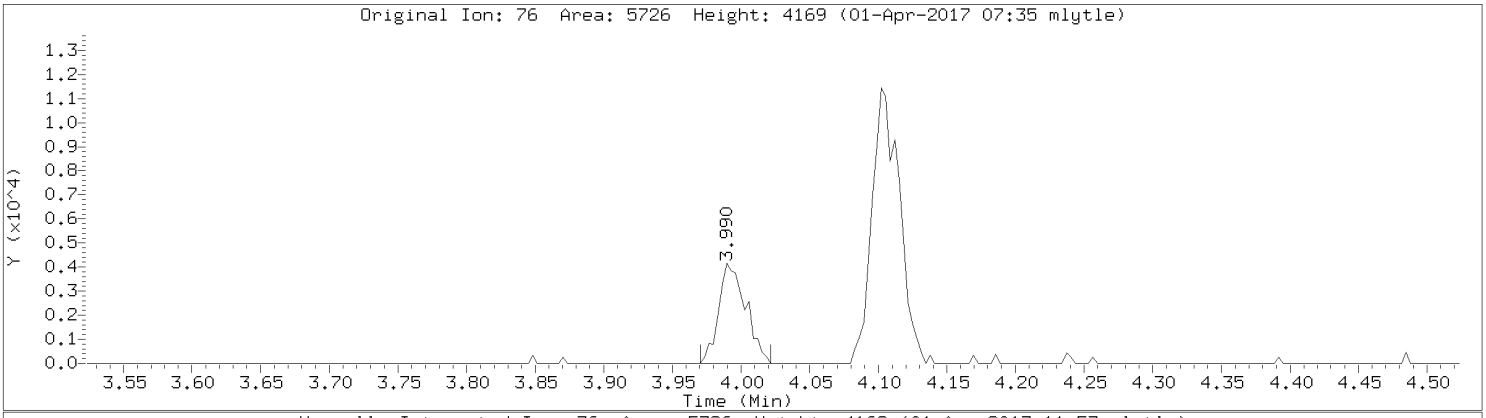
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

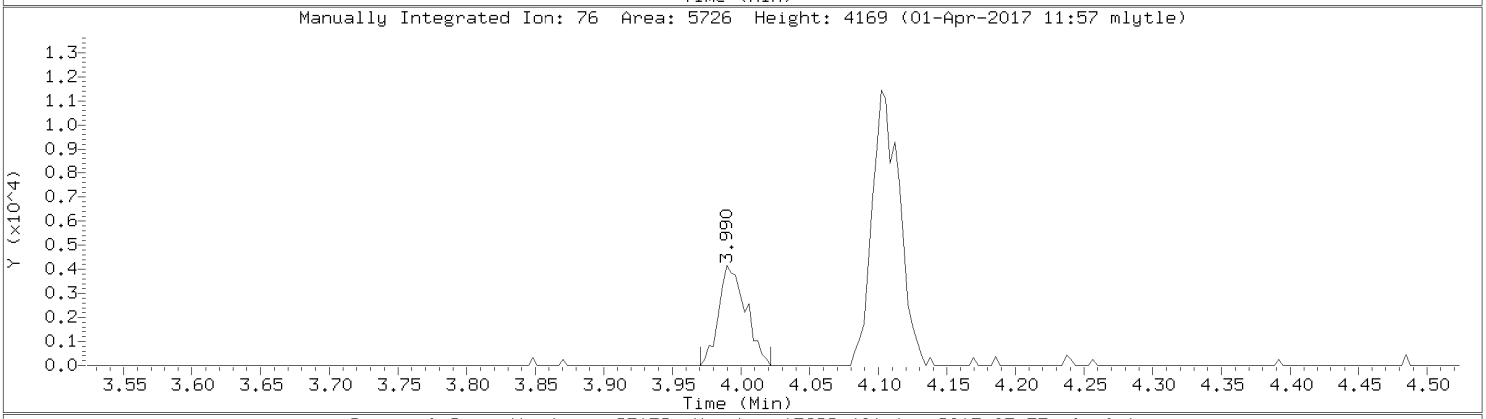
Compound: Ethanol
CAS Number: 64-17-5

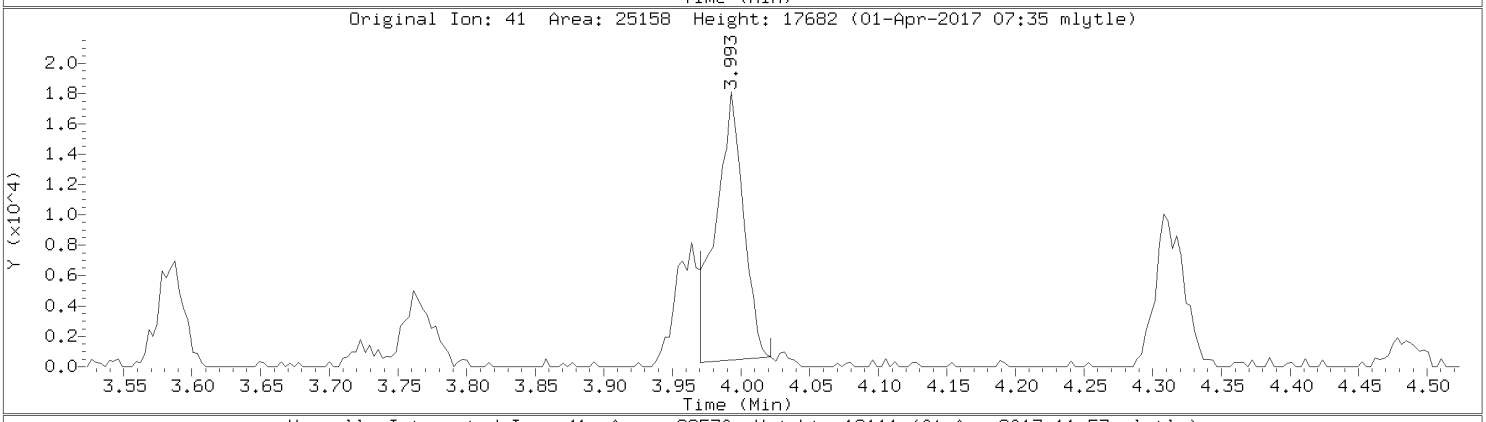


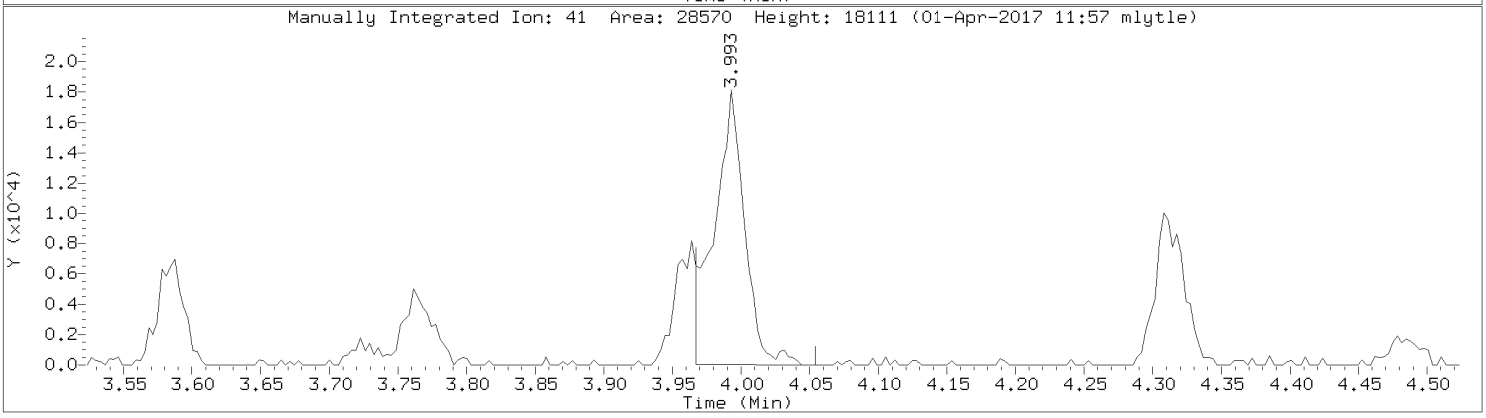
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: Allyl Chloride
CAS Number: 107-05-1

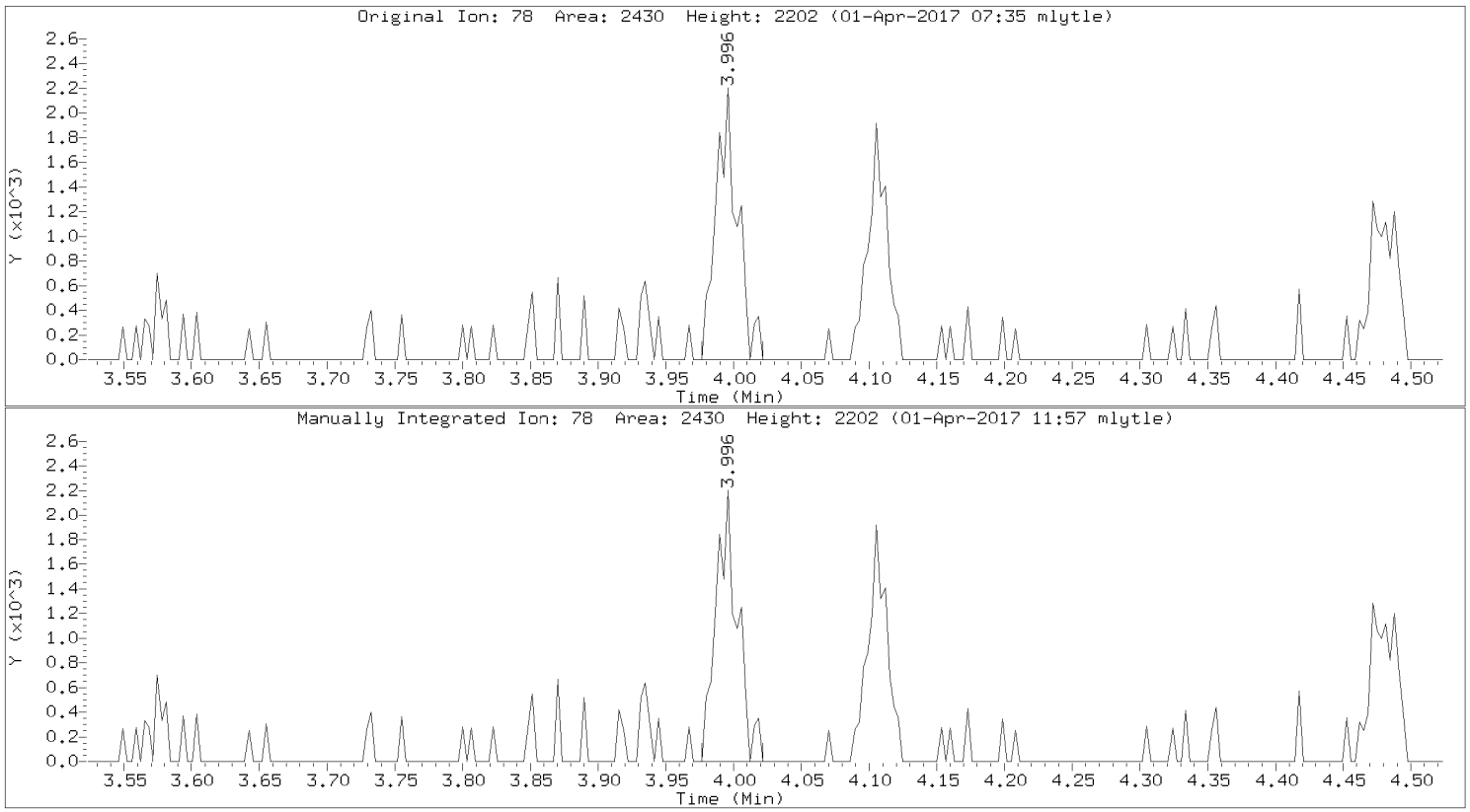






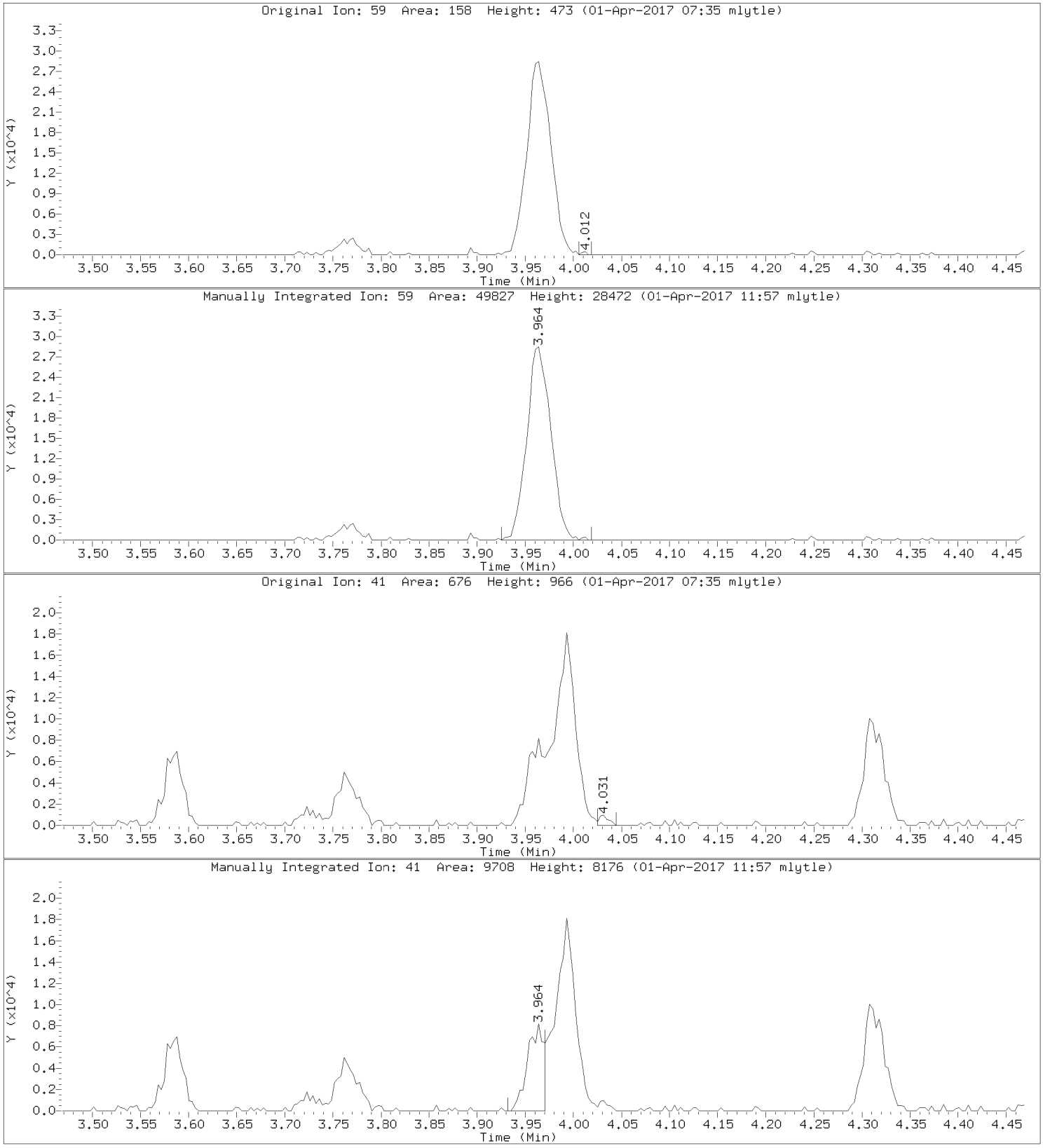


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2



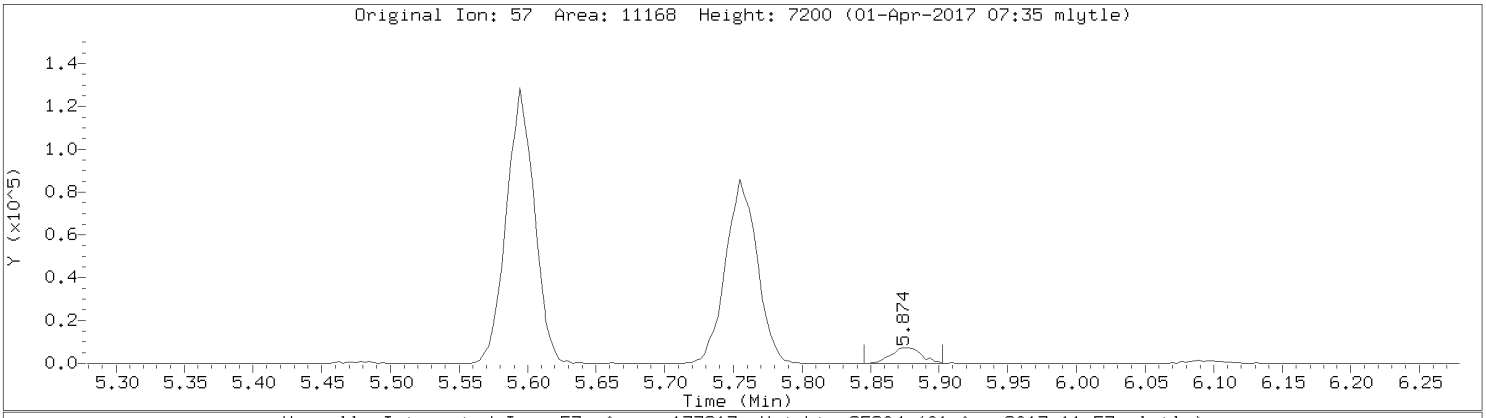
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

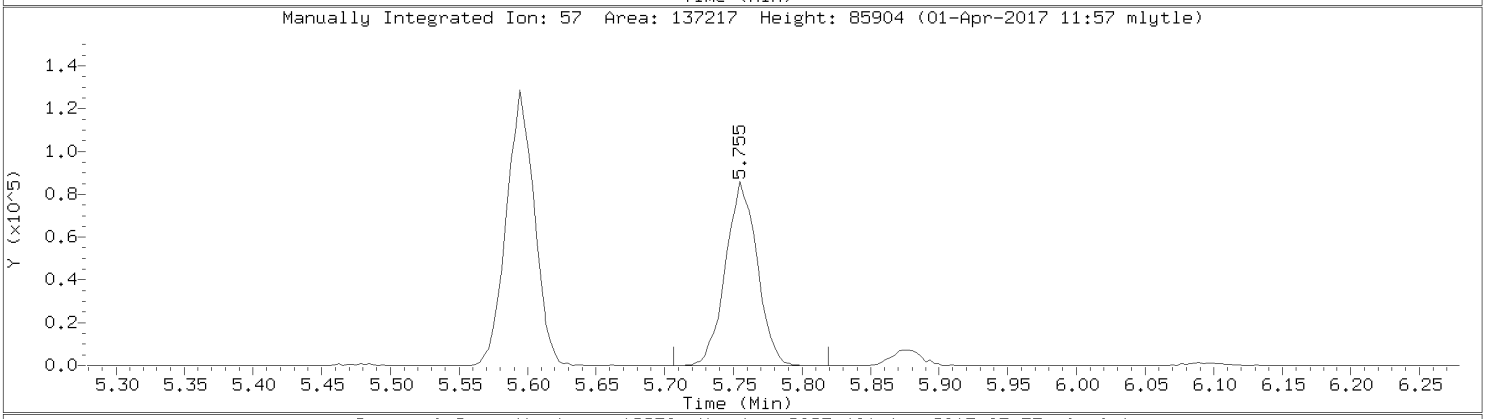
Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0

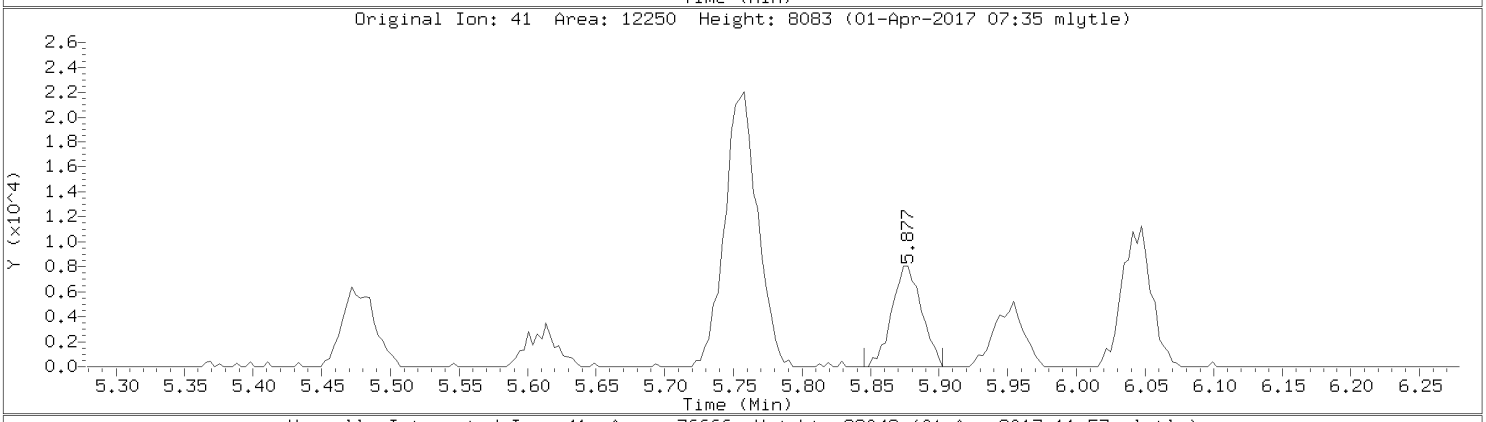


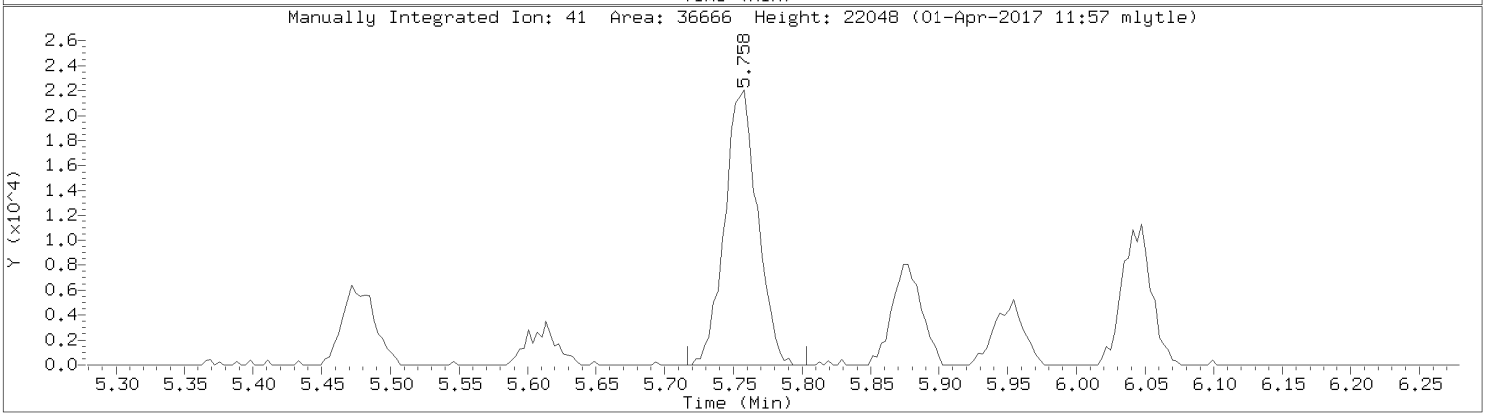
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

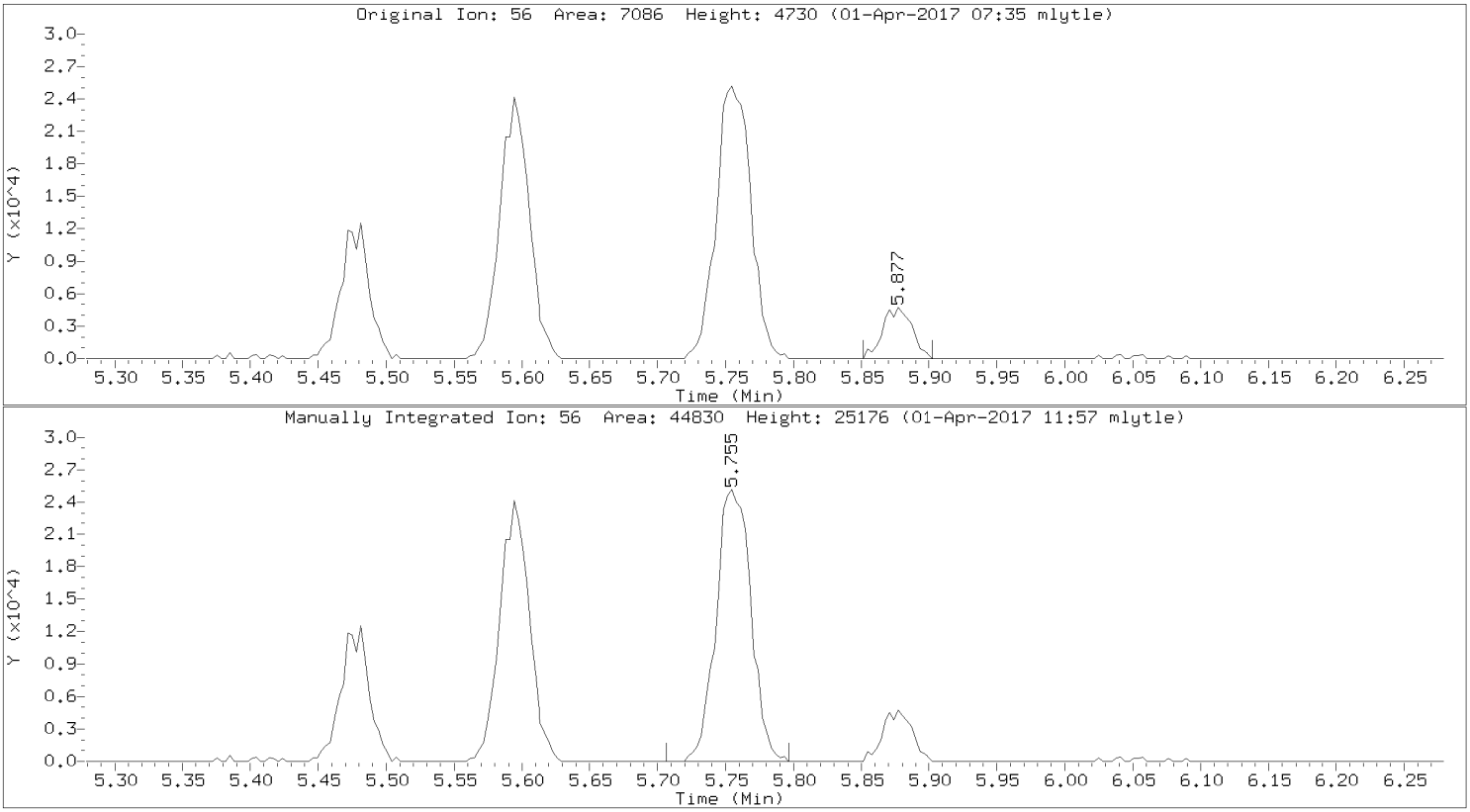






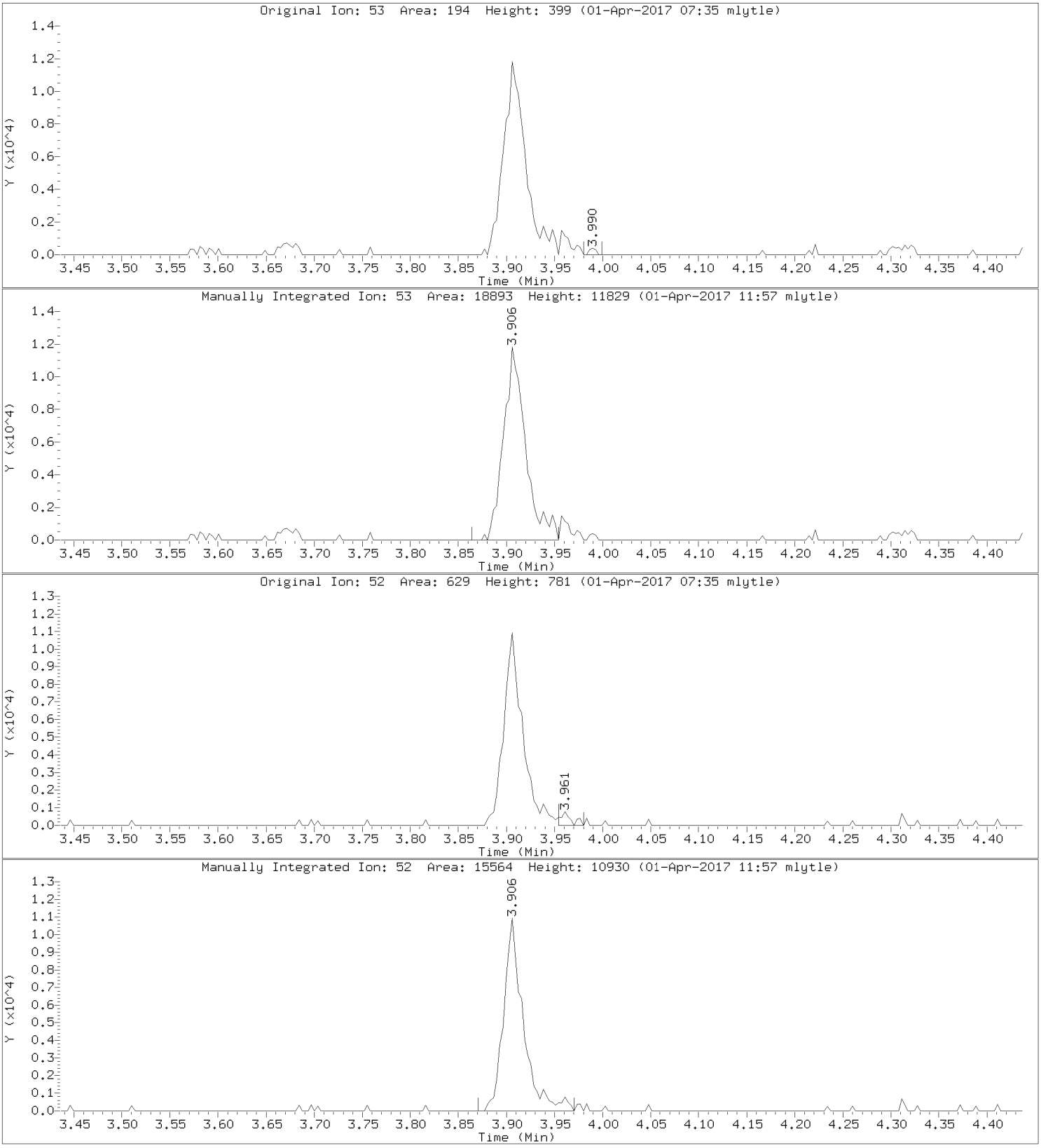


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2



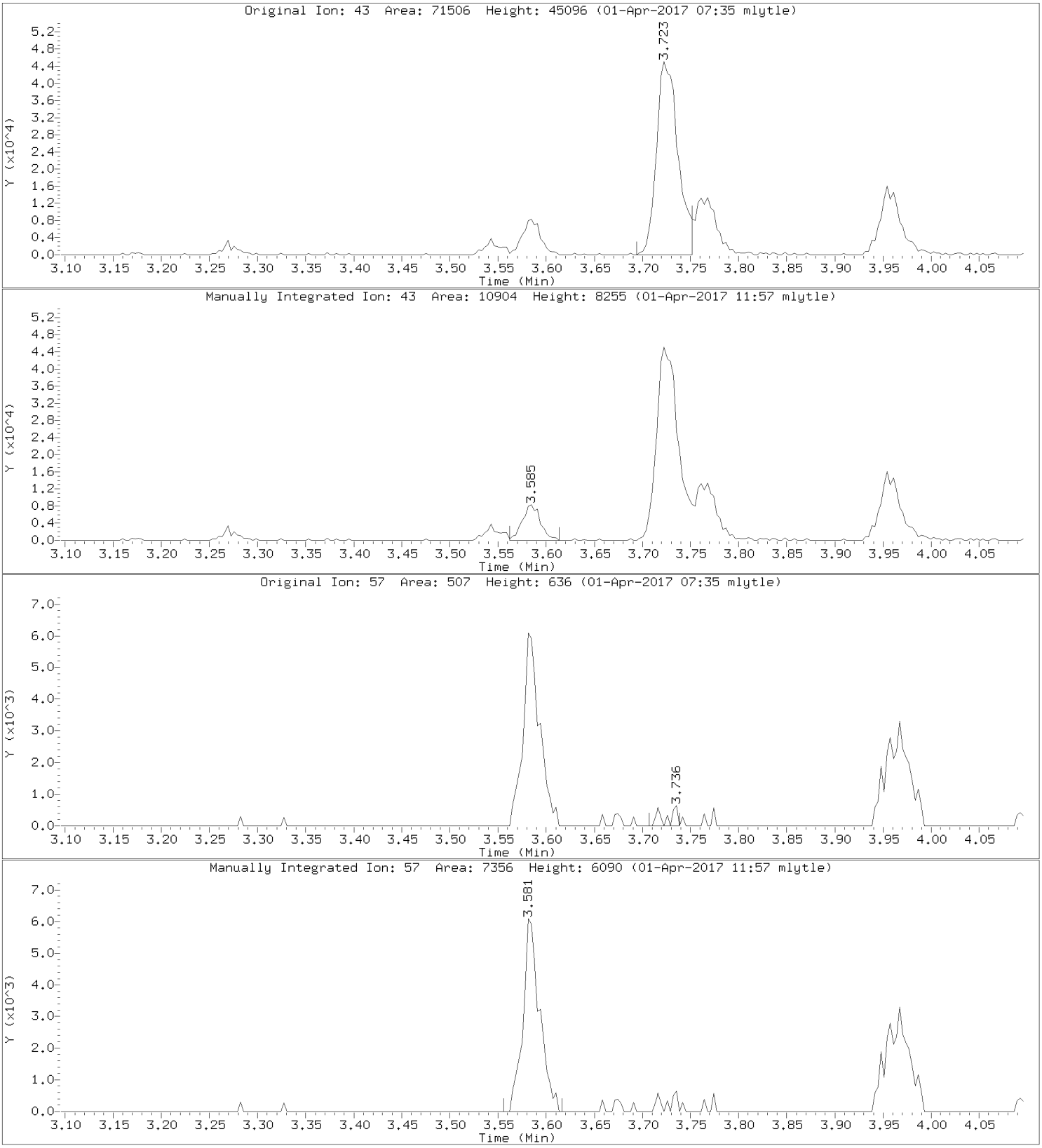
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: Acrylonitrile
CAS Number: 107-13-1

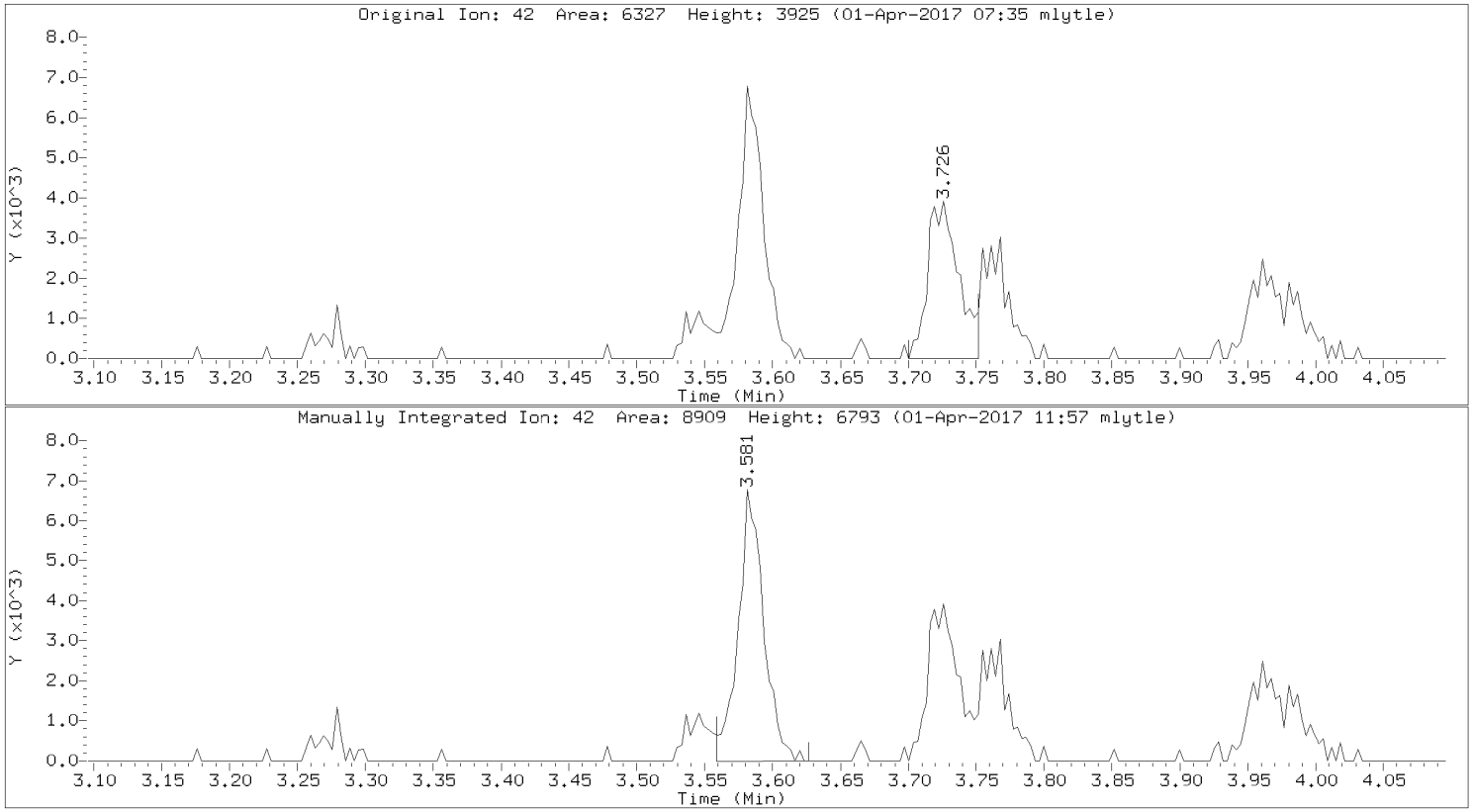


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: Isopentane
CAS Number: 78-78-4

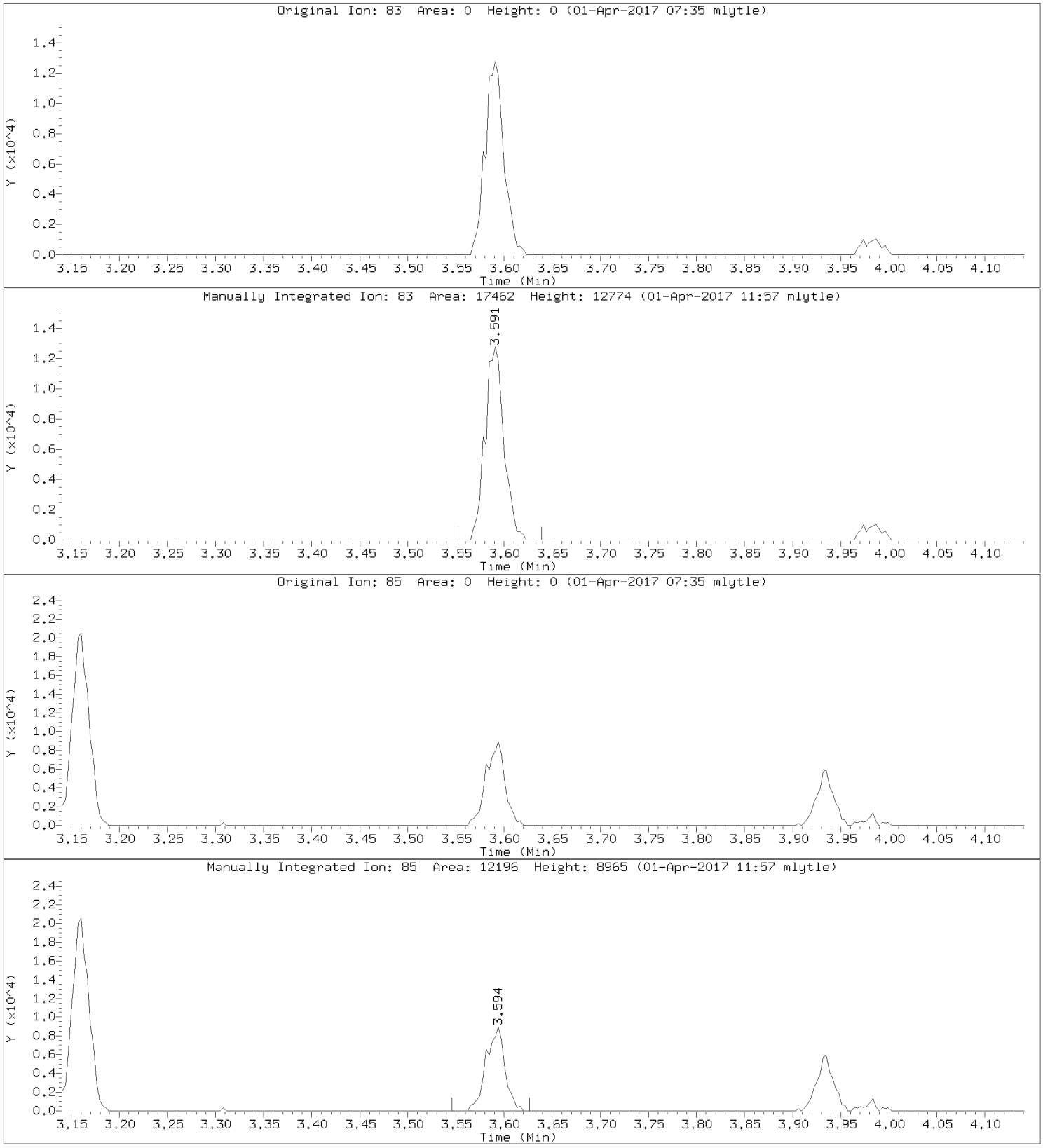


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

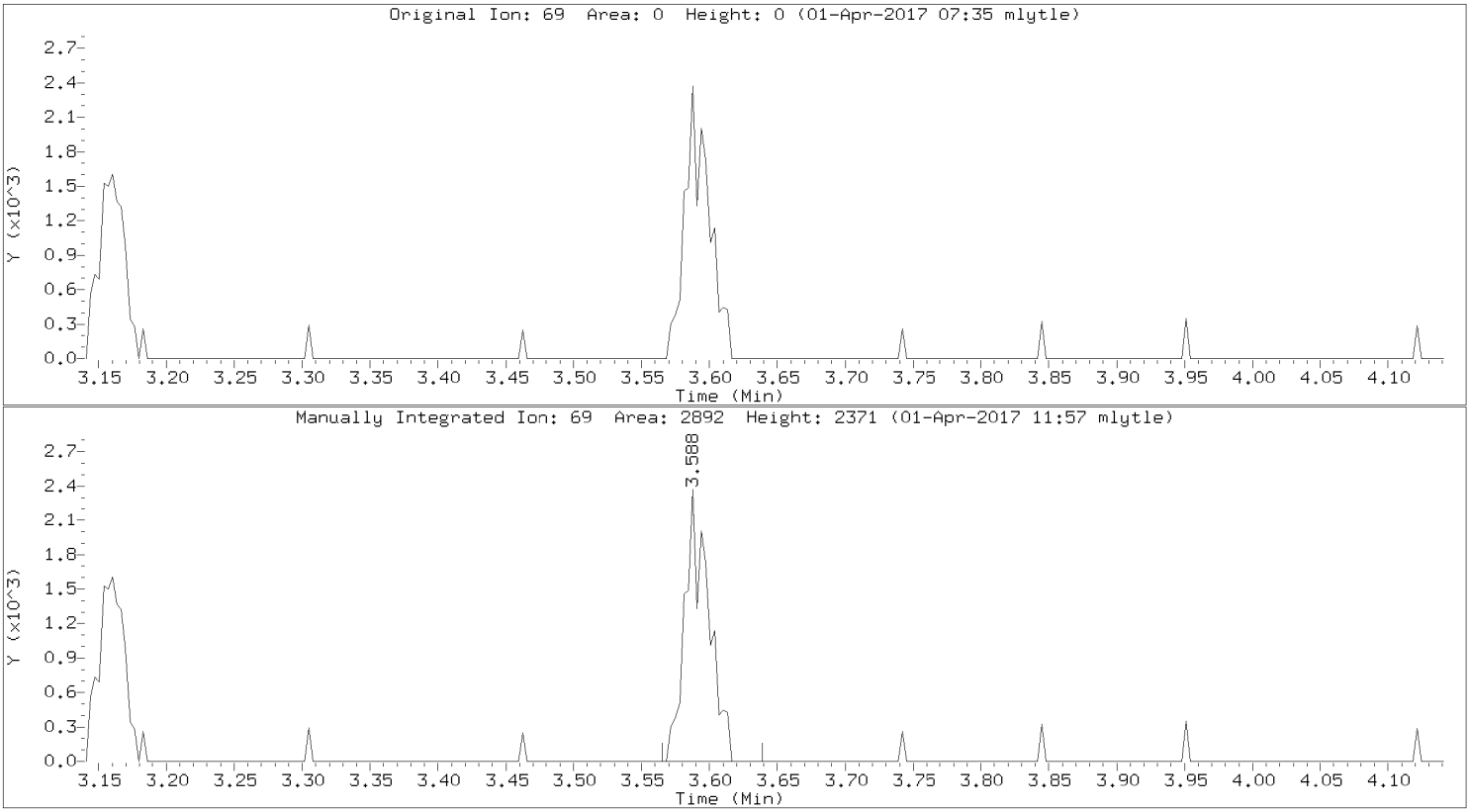


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2

Compound: Freon 123
CAS Number: 306-83-2



Data File: \\192.168.10.12\chem\10airB.i\033117.b/09003.D
Injection Date: 31-MAR-2017 16:09
Instrument: 10airB.i
Lab Sample ID: CAL2



Data File: \\192.168.10.12\chem\10airB.i\033117.b\09004.D
Report Date: 01-Apr-2017 11:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033117.b\09004.D
Lab Smp Id: CAL3
Inj Date : 31-MAR-2017 16:36
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Meth Date : 01-Apr-2017 11:58 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 16:09 Cal File: 09003.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.944	2.944	(0.526)	25179	0.50000	0.532
2	1,1-Difluoroethane	65	3.005	3.005	(0.537)	14881	0.50000	0.474(QM)
3	Chlorodifluoromethane	67	3.028	3.028	(0.541)	7687	0.50000	0.544(QM)
4	Propylene	41	3.028	3.028	(0.541)	19356	0.50000	0.484
5	Dichlorodifluoromethane	85	3.060	3.060	(0.547)	74340	0.50000	0.500
6	Chloromethane	50	3.156	3.156	(0.564)	33085	0.50000	0.509
7	Dichlorotetrafluoroethane	85	3.156	3.156	(0.564)	68719	0.50000	0.533
8	Vinyl chloride	62	3.227	3.227	(0.577)	25405	0.50000	0.497
9	1,3-Butadiene	54	3.266	3.266	(0.584)	21140	0.50000	0.517(Q)
10	Bromomethane	94	3.401	3.401	(0.608)	19587	0.50000	0.500
11	Chloroethane	64	3.452	3.452	(0.617)	11535	0.50000	0.530
12	Ethanol	45	3.539	3.539	(0.632)	45955	2.50000	2.46(M)
13	Vinyl Bromide	106	3.565	3.565	(0.637)	19558	0.50000	0.518
14	Isopentane	43	3.584	3.584	(0.640)	28711	0.50000	0.534(M)
15	Freon 123	83	3.597	3.597	(0.643)	48859	0.50000	0.549(M)
16	Trichlorofluoromethane	101	3.658	3.658	(0.654)	55445	0.50000	0.551
17	Acrolein	56	3.674	3.674	(0.656)	21026	1.25000	1.23(M)
18	Acetone	43	3.713	3.713	(0.663)	185921	2.50000	2.59(M)
19	Isopropyl Alcohol	45	3.758	3.758	(0.671)	205913	2.50000	2.53(H)
20	1,1-Dichloroethene	61	3.893	3.893	(0.696)	37586	0.50000	0.521
21	Acrylonitrile	53	3.906	3.906	(0.698)	47330	1.25000	1.23(M)
22	Freon 113	101	3.935	3.935	(0.703)	44582	0.50000	0.537
23	Methyl Acetate	43	3.951	3.951	(0.706)	64738	0.50000	0.537

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09004.D
Report Date: 01-Apr-2017 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.706)	127135	1.25000	1.28(H)
	25 Methylene chloride	49	3.986	3.986	(0.712)	153386	2.50000	2.67
	26 Allyl Chloride	76	3.999	3.999	(0.715)	17606	1.25000	1.29(Q)
	27 Carbon Disulfide	76	4.105	4.105	(0.733)	42308	0.50000	0.478
	28 trans-1,2-dichloroethene	96	4.259	4.259	(0.761)	19721	0.50000	0.498
	29 Methyl Tert Butyl Ether	73	4.307	4.307	(0.770)	129546	1.25000	1.26
	30 Vinyl Acetate	43	4.375	4.375	(0.782)	61749	0.50000	0.484
	31 1,1-Dichloroethane	63	4.388	4.388	(0.784)	40662	0.50000	0.526(H)
$	32 Hexane-d14(S)	66	4.481	4.481	(0.801)	744718	10.0000	9.80
	33 Methyl Ethyl Ketone	72	4.549	4.549	(0.813)	10316	0.50000	0.507(QM)
	34 n-Hexane	57	4.578	4.578	(0.818)	39176	0.50000	0.507(QM)
	35 Di-isopropyl Ether	45	4.597	4.597	(0.821)	79998	0.50000	0.492
	36 Ethyl Acetate	43	4.716	4.716	(0.843)	51405	0.50000	0.476
	37 cis-1,2-Dichloroethene	96	4.706	4.706	(0.841)	21990	0.50000	0.504
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.862)	220028	1.25000	1.44
	39 Chloroform	83	4.819	4.819	(0.861)	48055	0.50000	0.589
	40 Tetrahydrofuran	42	5.002	5.002	(0.894)	31845	0.50000	0.506
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	54640	0.50000	0.518
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	43484	0.50000	0.502
	43 Benzene	78	5.452	5.452	(0.974)	77638	0.50000	0.511
	44 Carbon tetrachloride	117	5.468	5.468	(0.977)	53013	0.50000	0.501
	45 Cyclohexane	56	5.481	5.481	(0.979)	44685	0.50000	0.511(M)
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(1.001)	89650	0.50000	0.547
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	2013885	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.754	(1.028)	371155	1.25000	1.39(M)
	49 Heptane	43	5.877	5.877	(1.050)	53200	0.50000	0.510
	50 1,2-Dichloropropane	63	5.957	5.957	(1.064)	31006	0.50000	0.499
	51 Trichloroethene	130	5.976	5.976	(1.068)	40297	0.50000	0.493
	52 Methyl methacrylate	69	6.041	6.041	(1.079)	25347	0.50000	0.462
	53 1,4-Dioxane	88	6.082	6.082	(1.087)	18966	0.50000	0.507
	54 Bromodichloromethane	83	6.073	6.073	(1.085)	53228	0.50000	0.497
	55 Methylcyclohexane	98	6.426	6.426	(1.148)	21614	0.50000	0.498
	56 Methyl Isobutyl Ketone	43	6.532	6.532	(1.167)	180741	1.25000	1.27
	57 cis-1,3-Dichloropropene	75	6.578	6.578	(1.175)	39167	0.50000	0.467
	58 trans-1,3-Dichloropropene	75	6.973	6.973	(1.246)	31000	0.50000	0.421(H)
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	1644738	10.0000	9.75(H)
	60 1,1,2-Trichloroethane	97	7.134	7.134	(1.275)	32865	0.50000	0.497
	61 Toluene	91	7.147	7.147	(1.277)	99570	0.50000	0.510
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.854)	141214	1.25000	1.24
	63 n-Octane	43	7.574	7.574	(0.877)	67999	0.50000	0.529
	64 Dibromochloromethane	129	7.664	7.664	(0.887)	55539	0.50000	0.509
	65 1,2-Dibromoethane	107	7.899	7.899	(0.914)	49070	0.50000	0.489
	66 Tetrachloroethene	166	7.976	7.976	(0.923)	50475	0.50000	0.505
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	1128736	10.0000	
	68 Chlorobenzene	112	8.680	8.680	(1.005)	76028	0.50000	0.491
	69 Ethyl Benzene	91	8.928	8.928	(1.033)	125061	0.50000	0.522
	70 m&p-Xylene	91	9.073	9.073	(1.050)	194200	1.00000	1.07
	71 n-Nonane	43	9.465	9.465	(1.096)	63631	0.50000	0.540
	72 Bromoform	173	9.471	9.471	(1.096)	38529	0.50000	0.468
	73 Styrene	104	9.503	9.503	(1.100)	68393	0.50000	0.502
	74 o-Xylene	91	9.574	9.574	(1.108)	98797	0.50000	0.523
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	53371	0.50000	0.501
	76 Isopropylbenzene	105	10.156	10.156	(1.176)	131167	0.50000	0.497
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	132525	0.50000	0.487

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09004.D
Report Date: 01-Apr-2017 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	113517	0.50000	0.493(M)
79	1,3,5-Trimethylbenzene	105	10.999	10.999	(1.273)	103224	0.50000	0.503
80	n-Decane	57	11.375	11.375	(2.032)	54154	0.50000	0.424
81	Tert-Butyl Benzene	119	11.494	11.494	(1.331)	109414	0.50000	0.509
82	1,2,4-Trimethylbenzene	105	11.503	11.503	(1.332)	94061	0.50000	0.509
83	1,3-Dichlorobenzene	146	11.790	11.790	(1.365)	49394	0.50000	0.452
84	Sec- Butylbenzene	105	11.799	11.799	(1.366)	134647	0.50000	0.504
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.847	(1.371)	446251	10.0000	8.75
86	Benzyl Chloride	91	11.857	11.857	(1.373)	21586	0.50000	0.419
87	1,4-Dichlorobenzene	146	11.883	11.883	(1.376)	44824	0.50000	0.424
88	p-Isopropyltoluene	119	11.982	11.982	(1.387)	109894	0.50000	0.488
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	91409	0.50000	0.497
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	47648	0.50000	0.466
91	N-Butylbenzene	91	12.458	12.458	(1.442)	76195	0.50000	0.476
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	10751	0.50000	0.486
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.625)	5571	0.50000	0.482
94	Naphthalene	128	14.172	14.172	(1.641)	18445	0.50000	0.578
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	20899	0.50000	0.400

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09004.D
Report Date: 01-Apr-2017 11:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09004.D
Lab Smp Id: CAL3
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Misc Info:

Calibration Date: 31-MAR-2017
Calibration Time: 17:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

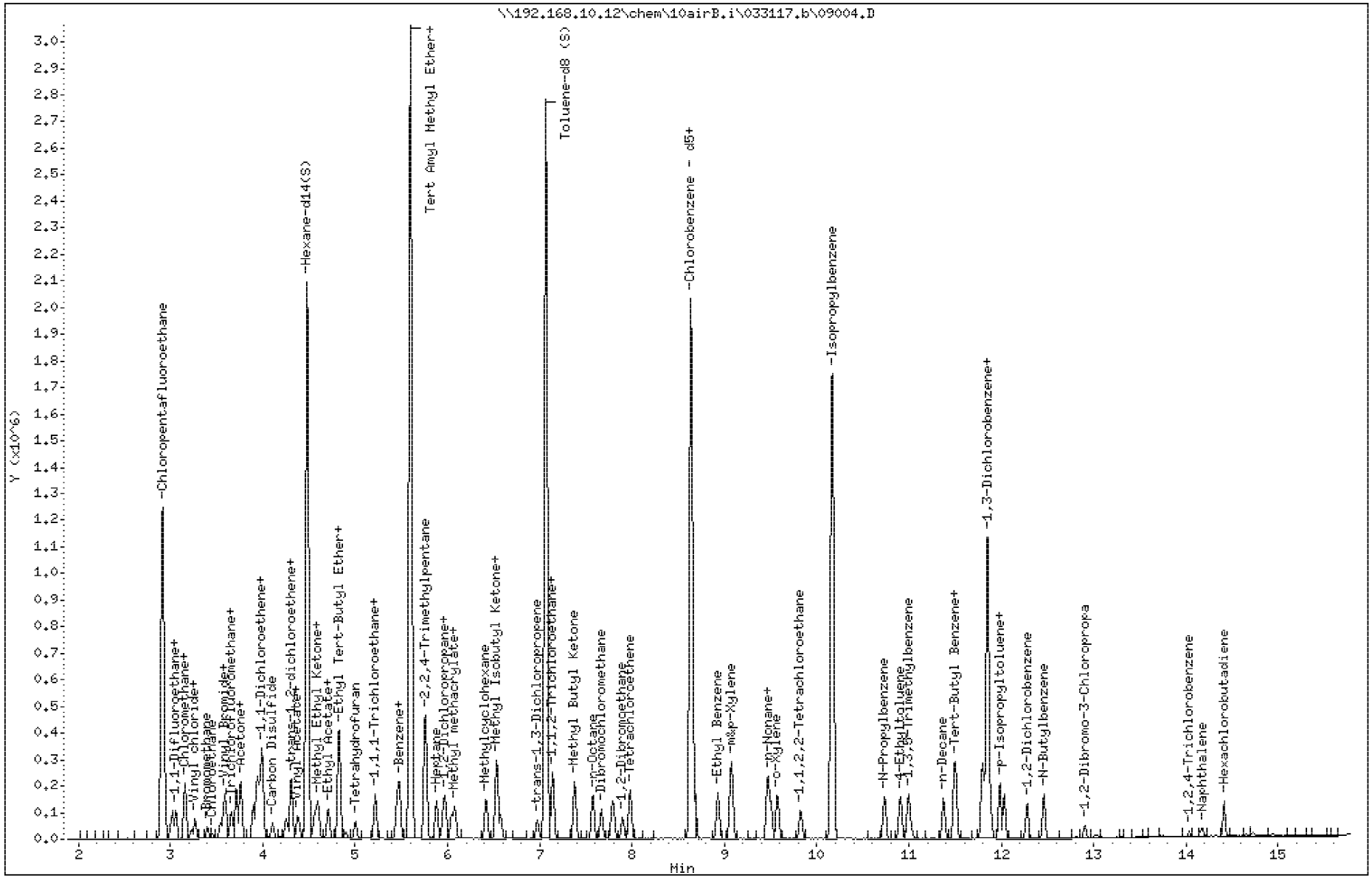
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	2013885	3.98
67 Chlorobenzene - d	1173864	704318	1643410	1128736	-3.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

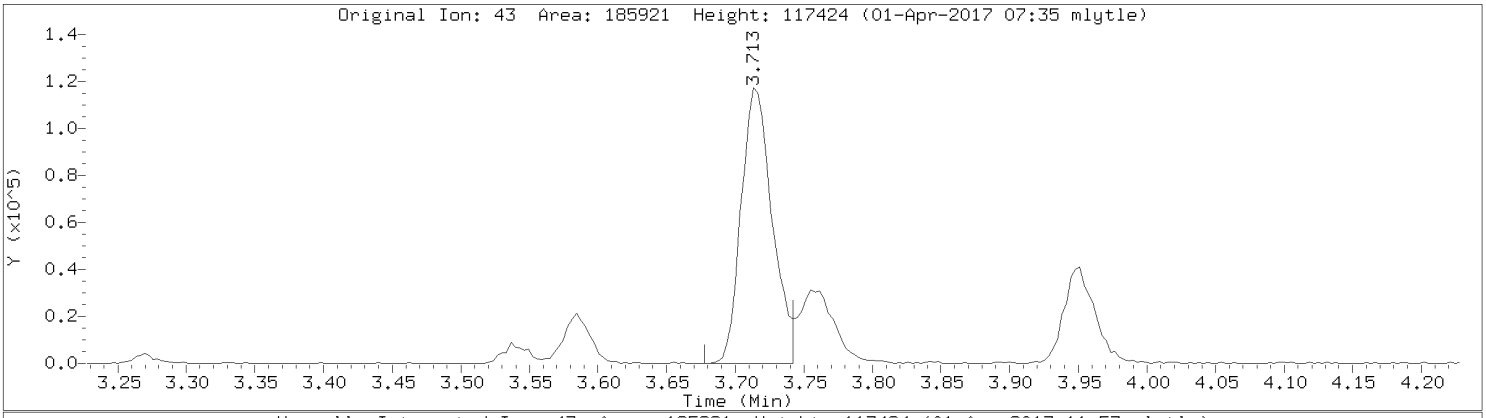
Data File: \\192.168.10.12\chem\10airB.i\033117.b\09004.D
Date : 31-MAR-2017 16:36
Client ID:
Sample Info:

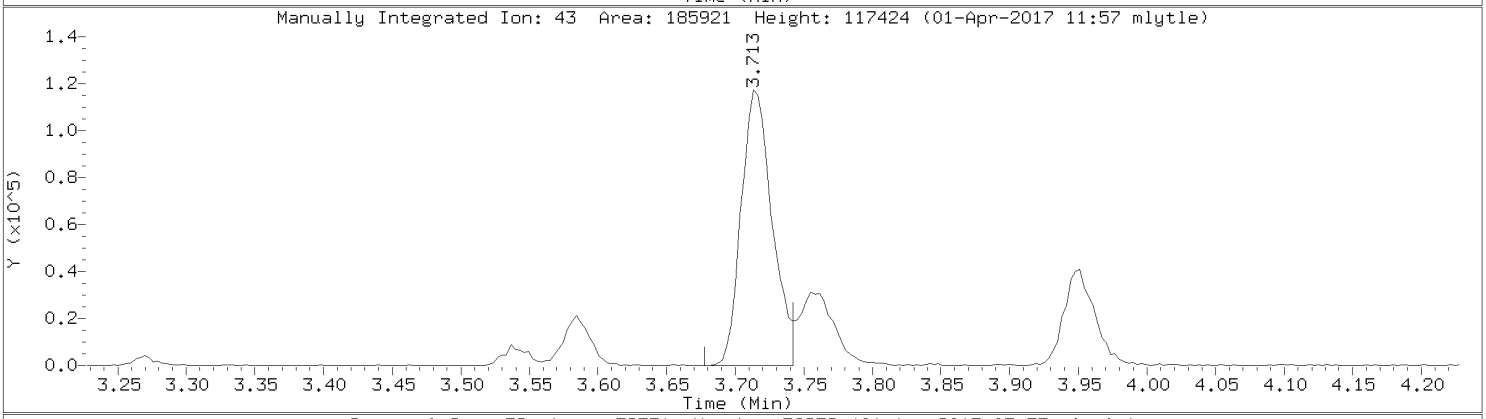
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

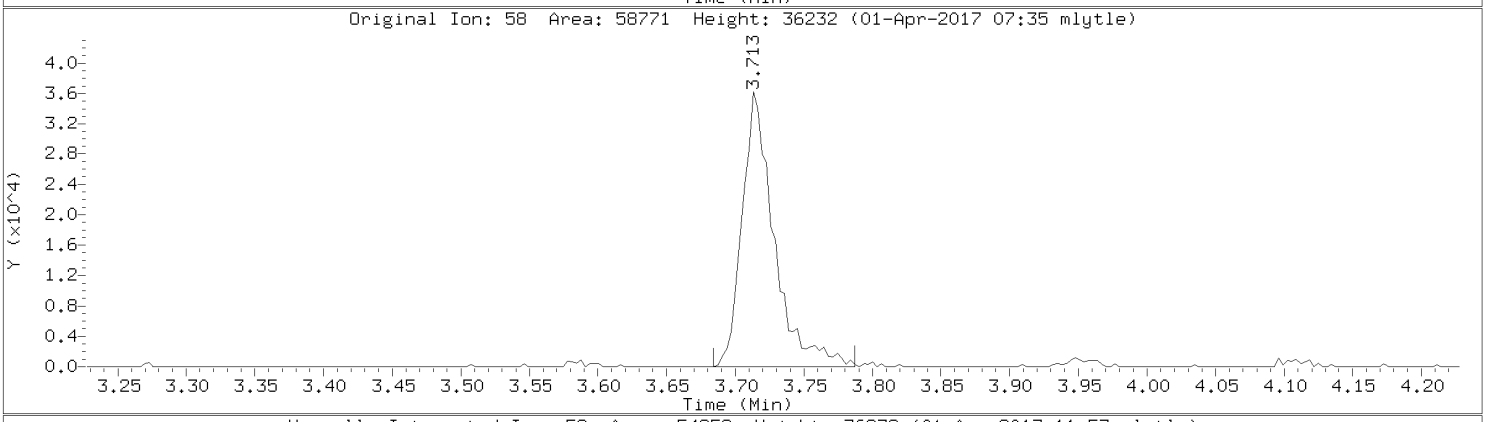


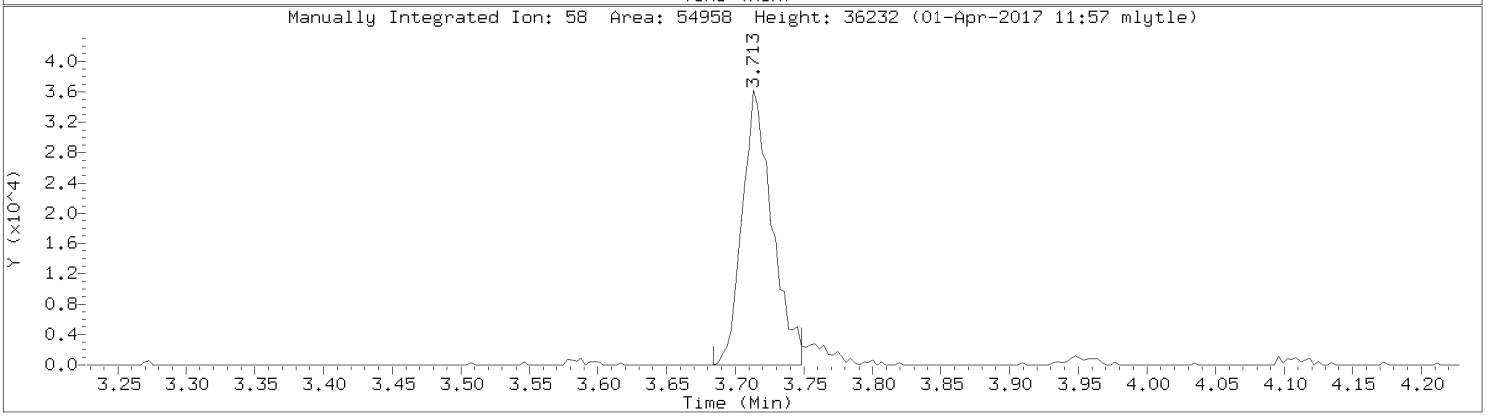
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: Acetone
CAS Number: 67-64-1



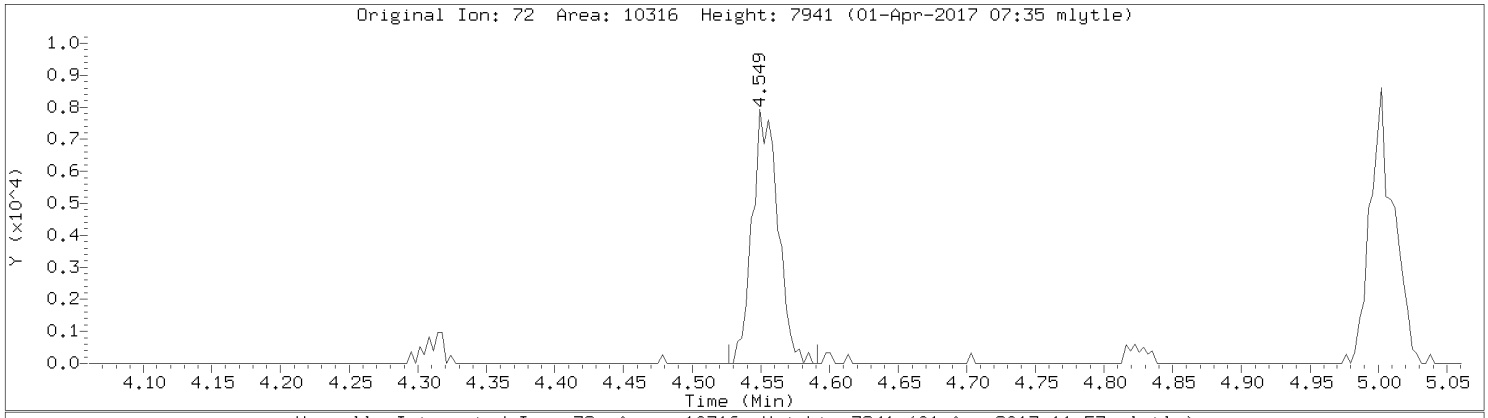


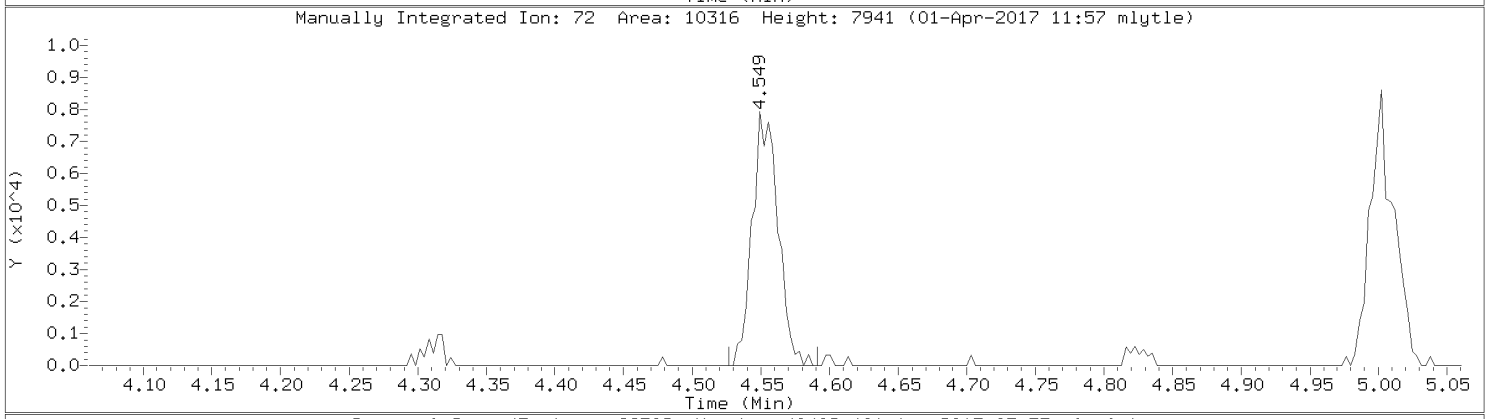


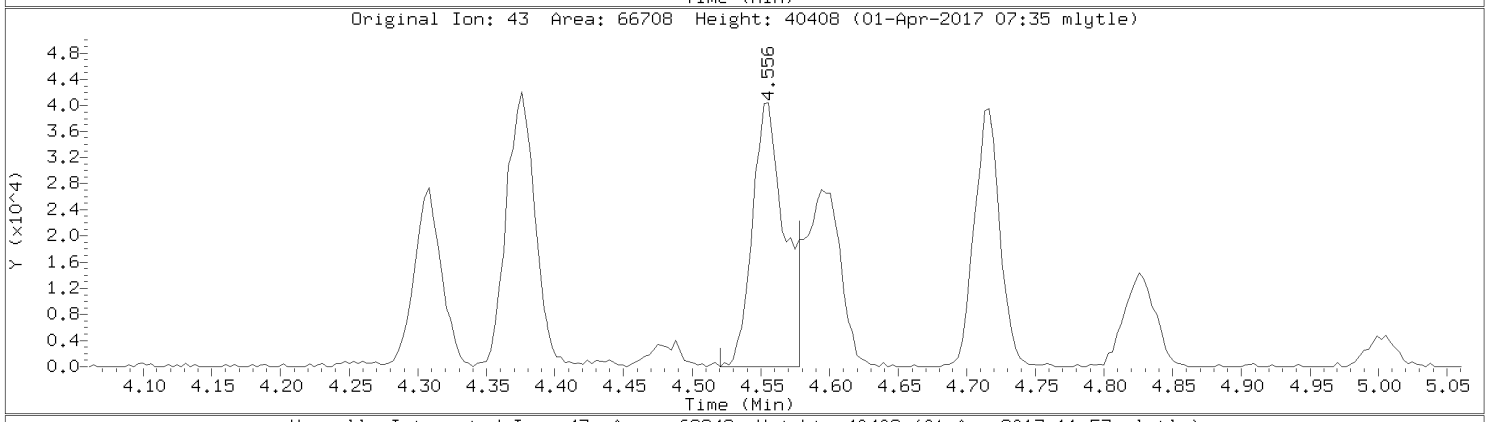


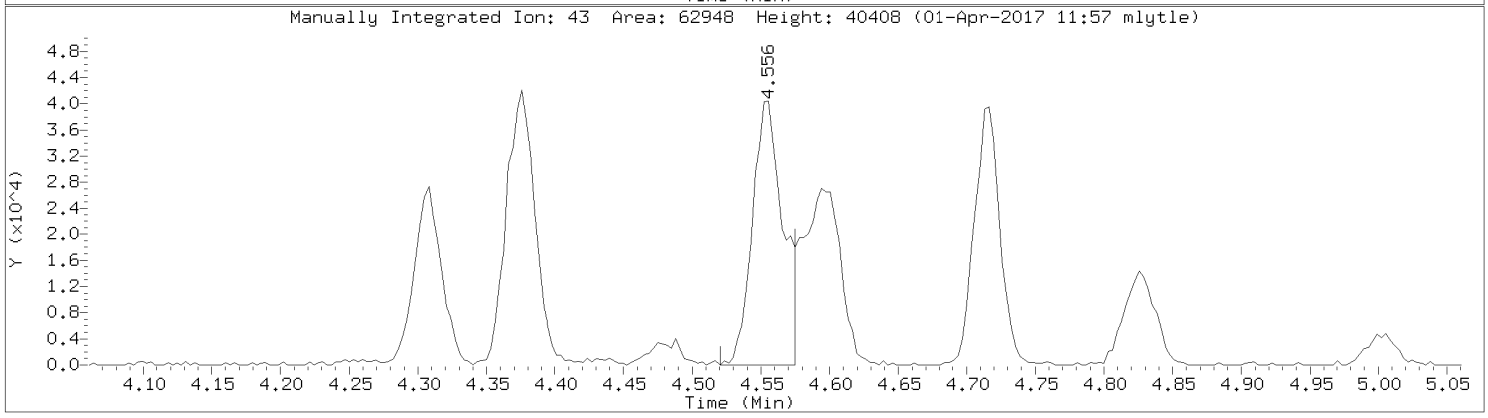
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



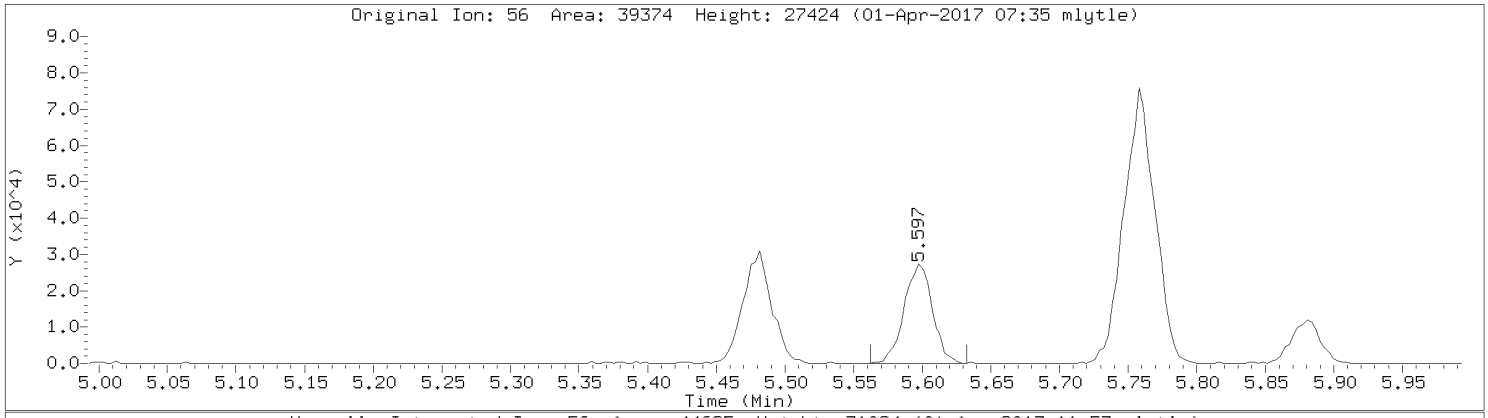


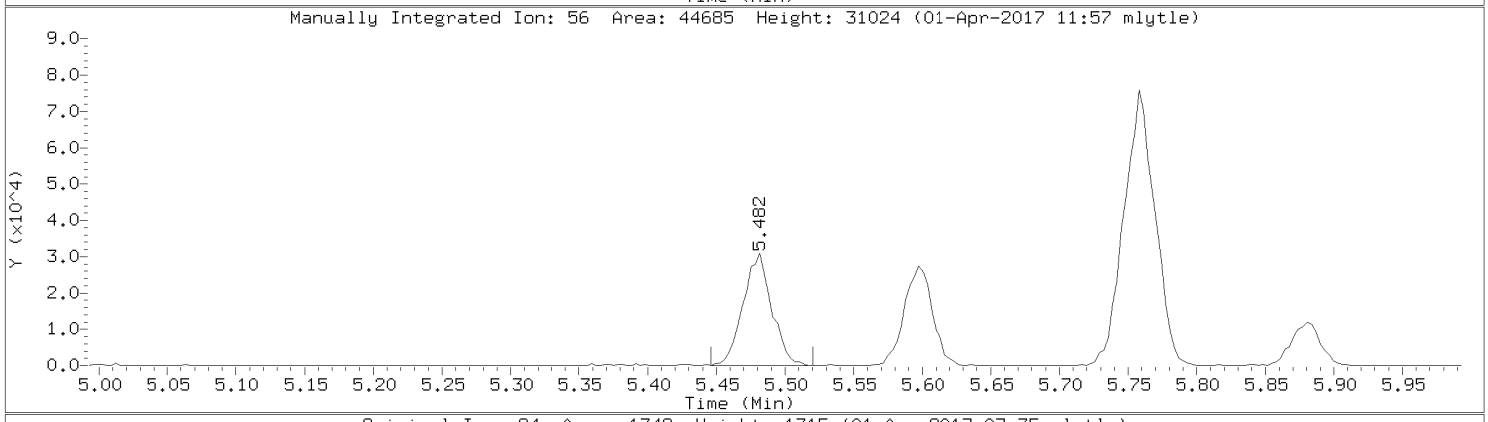


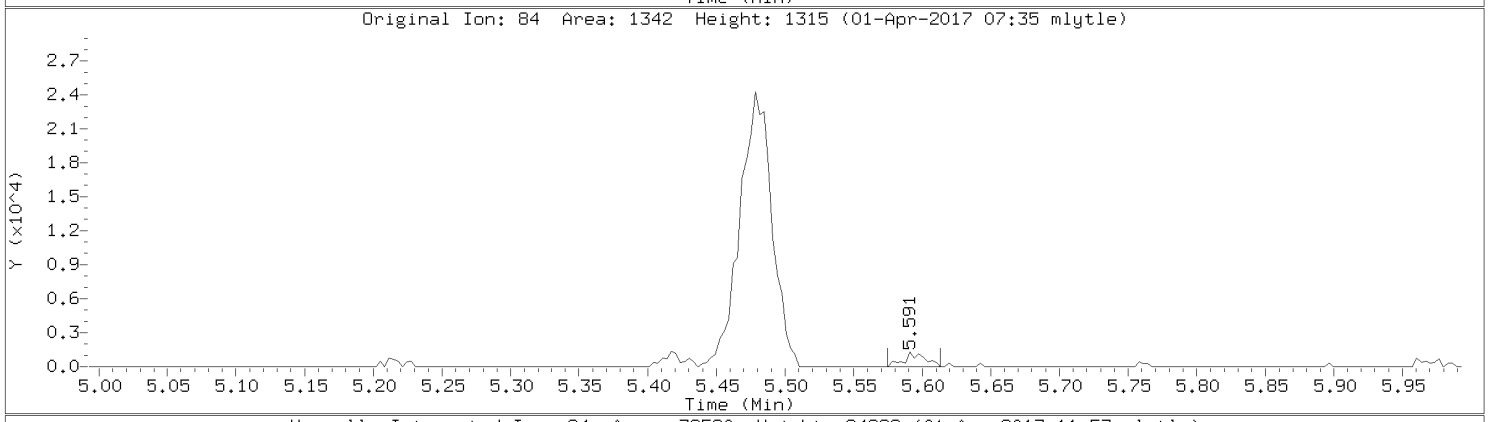


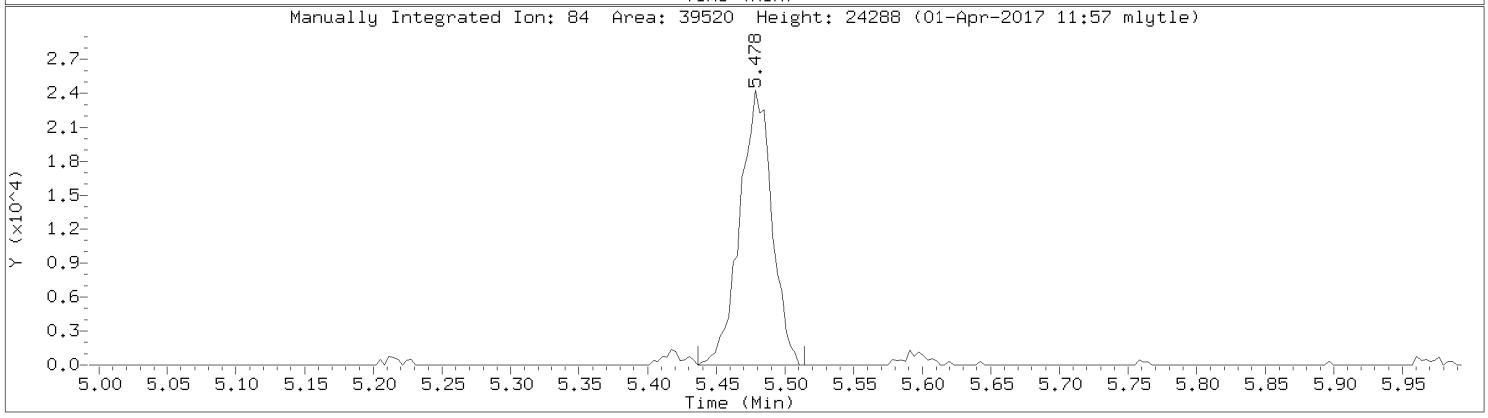
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: Cyclohexane
CAS Number: 110-82-7

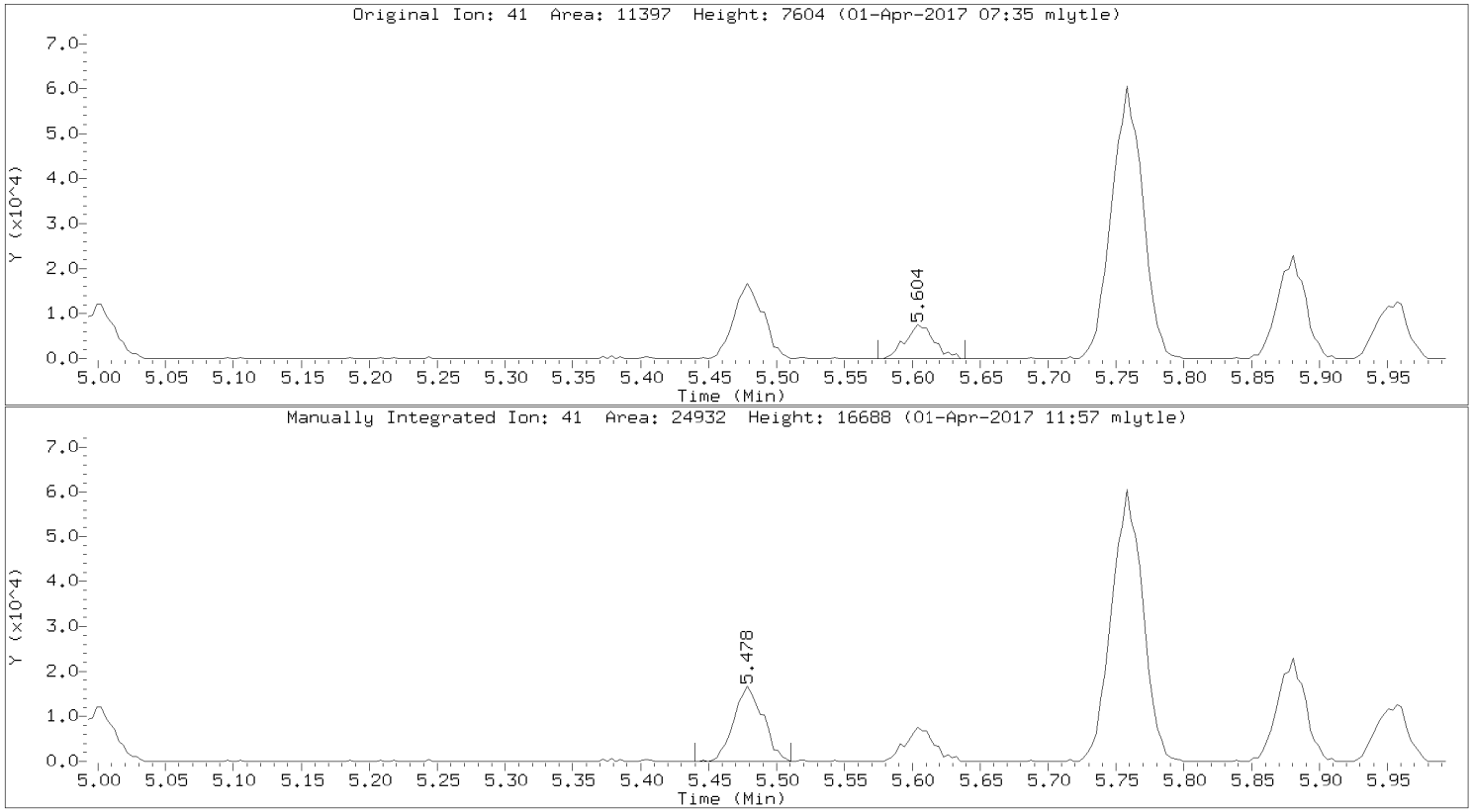






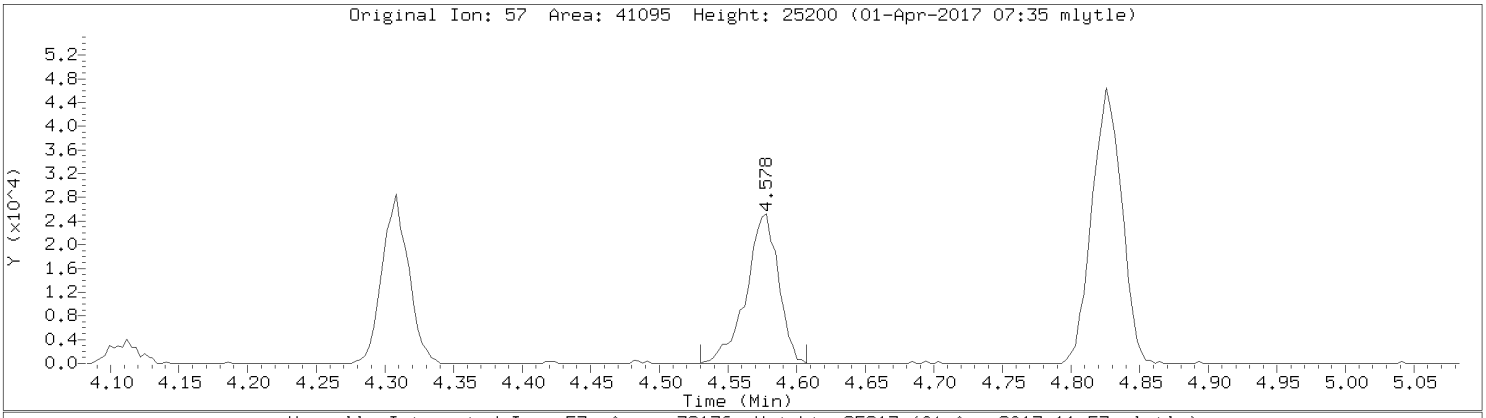


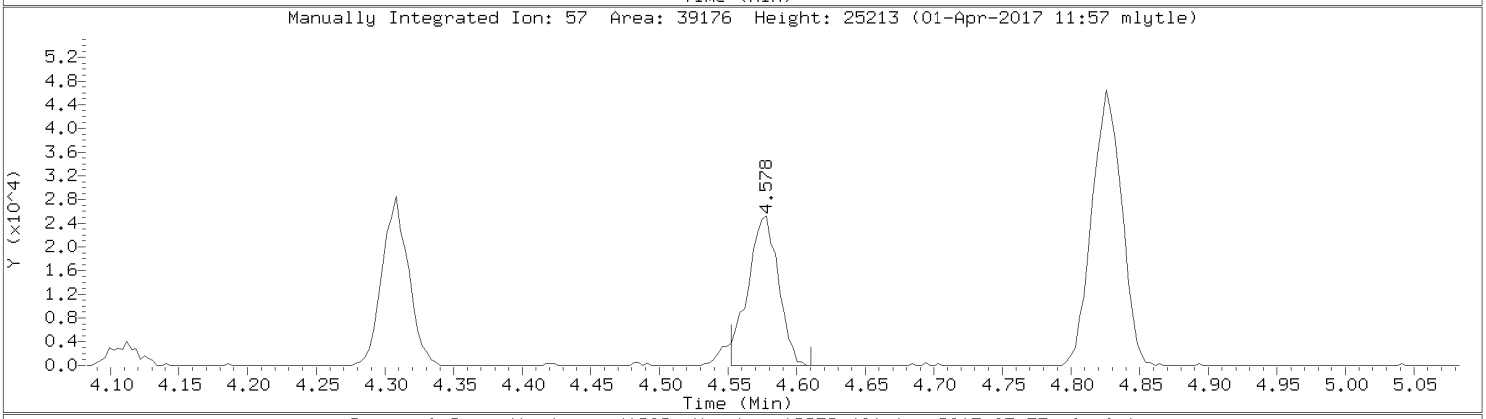
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

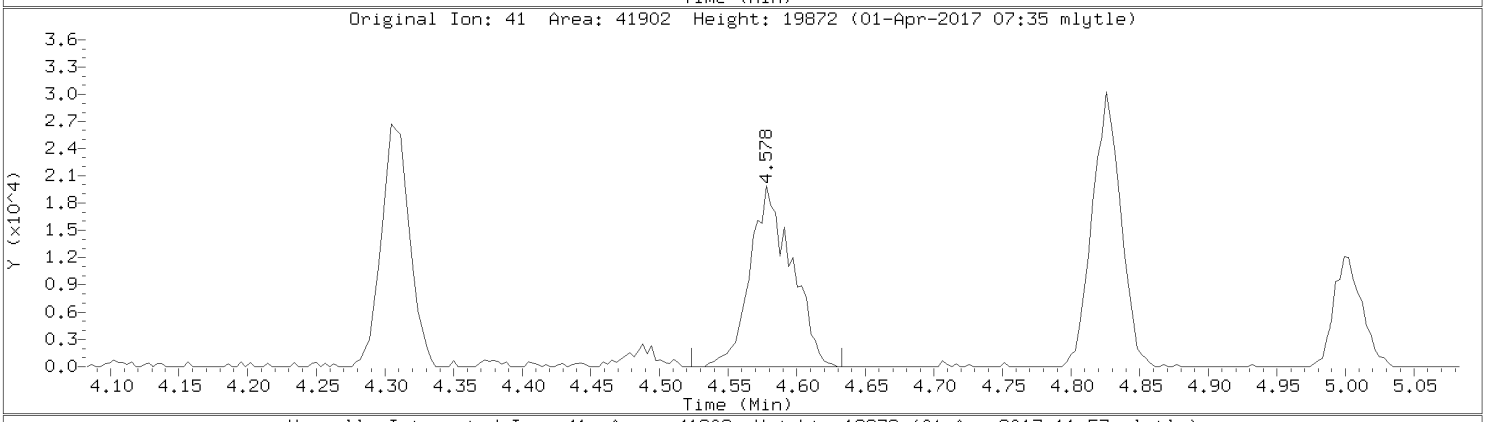


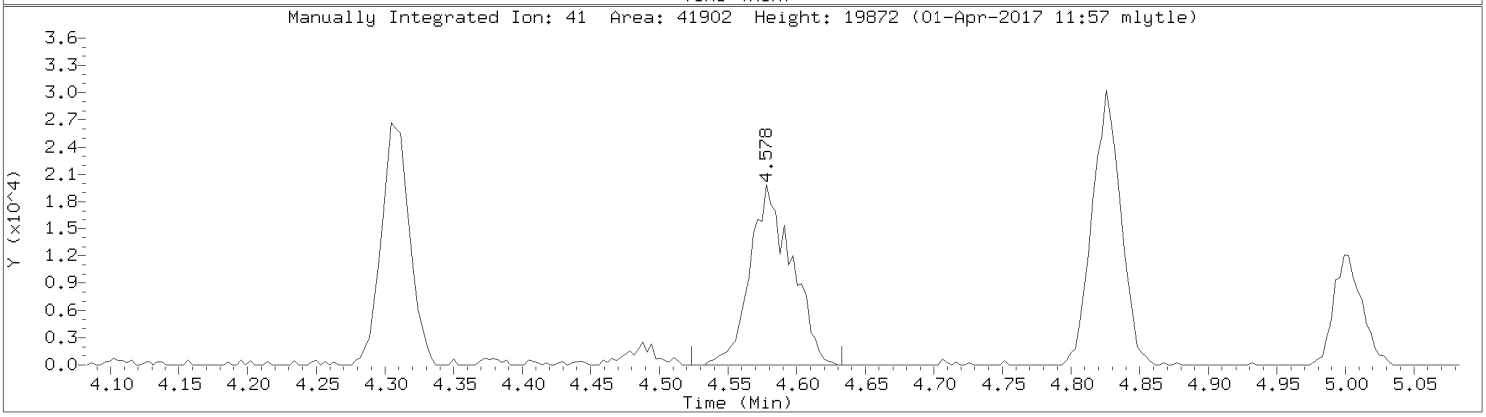
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: n-Hexane
CAS Number: 110-54-3

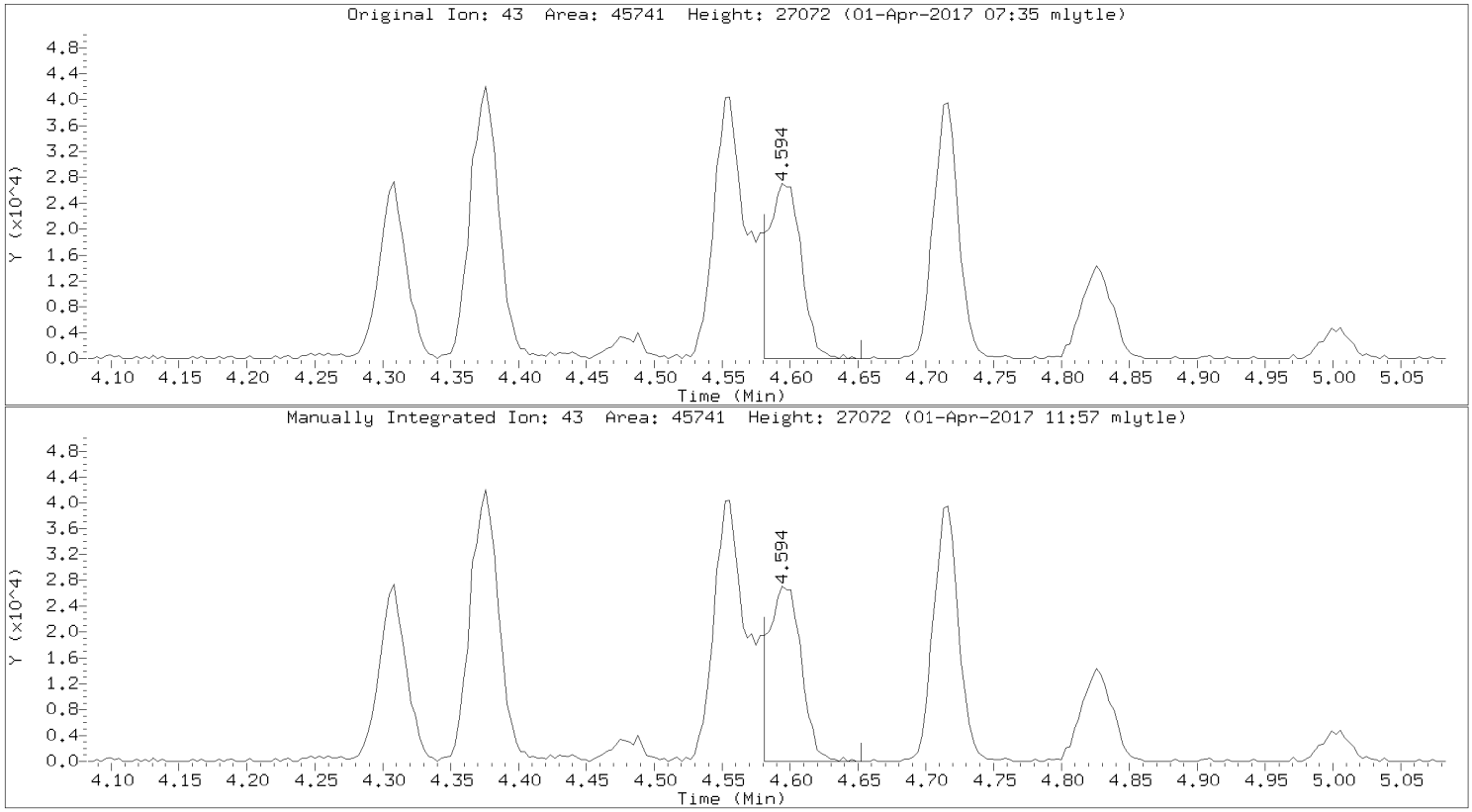






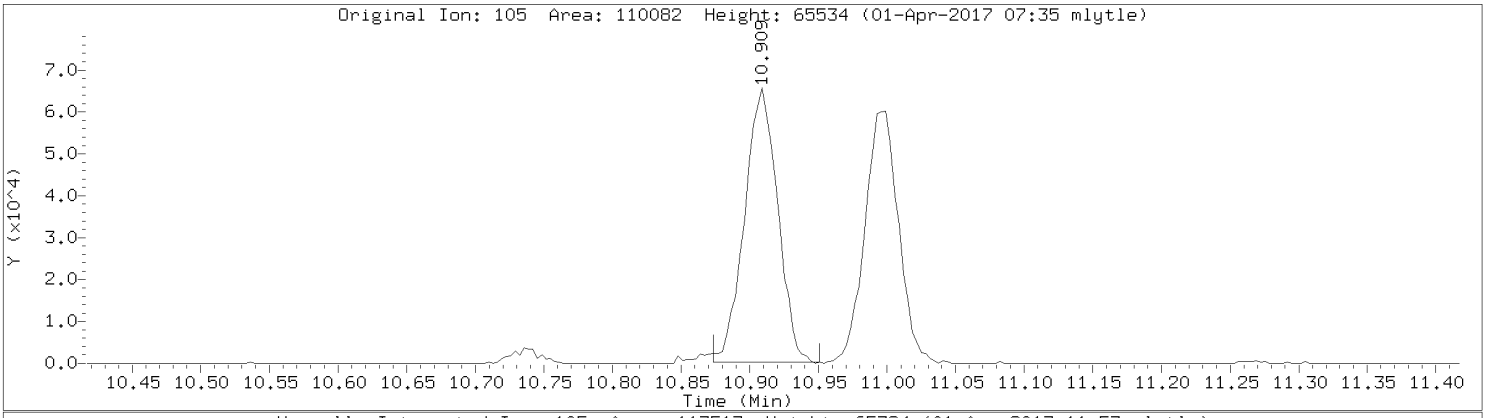


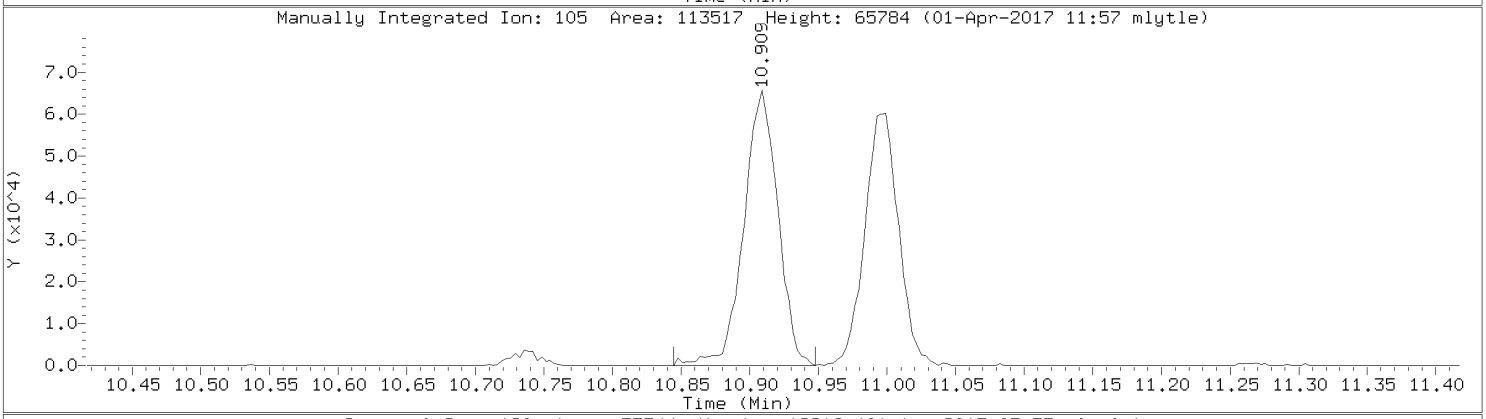
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

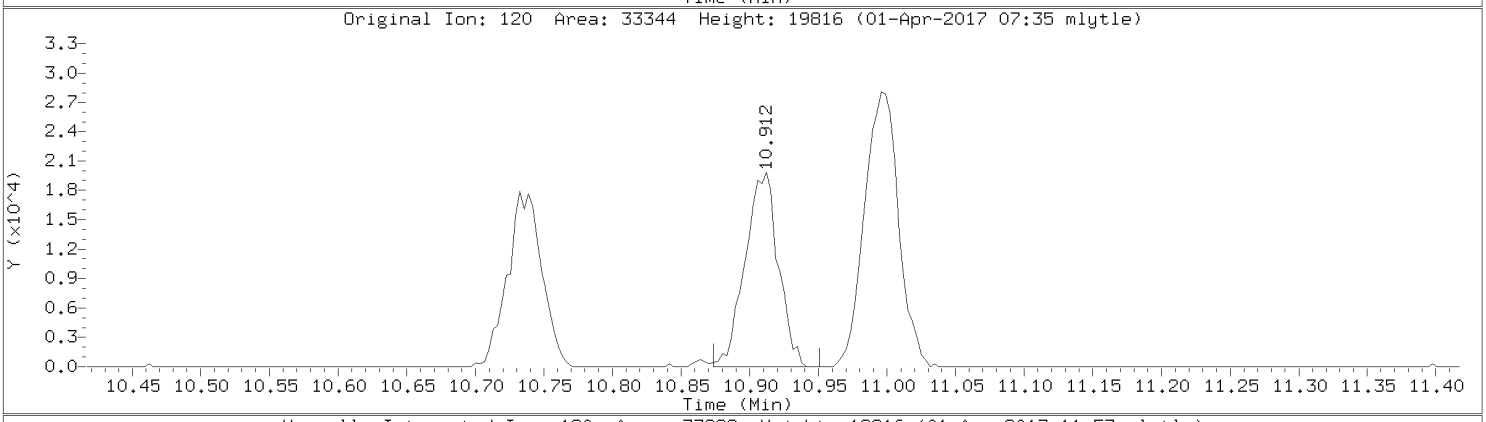


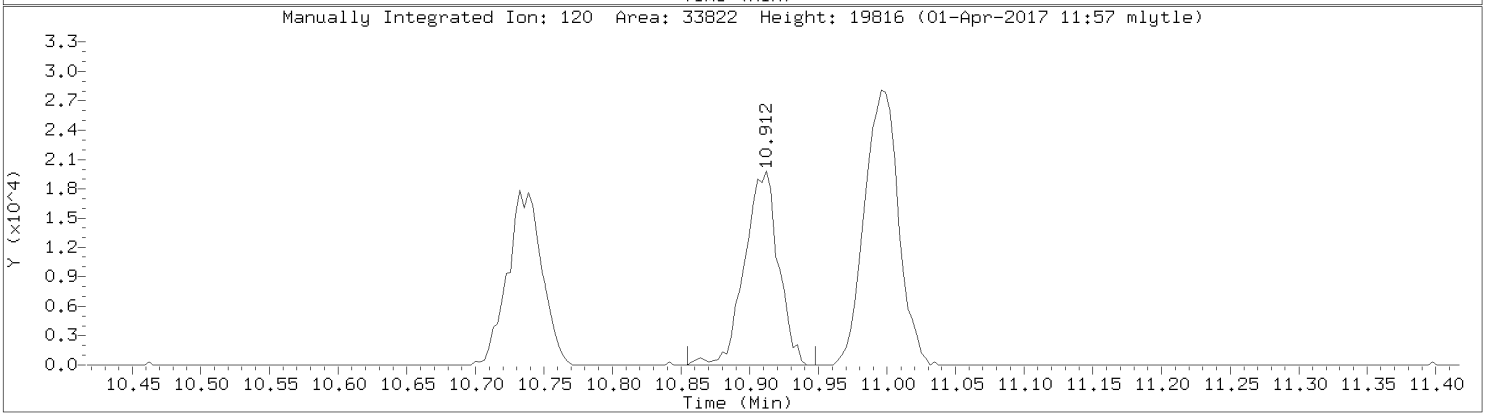
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

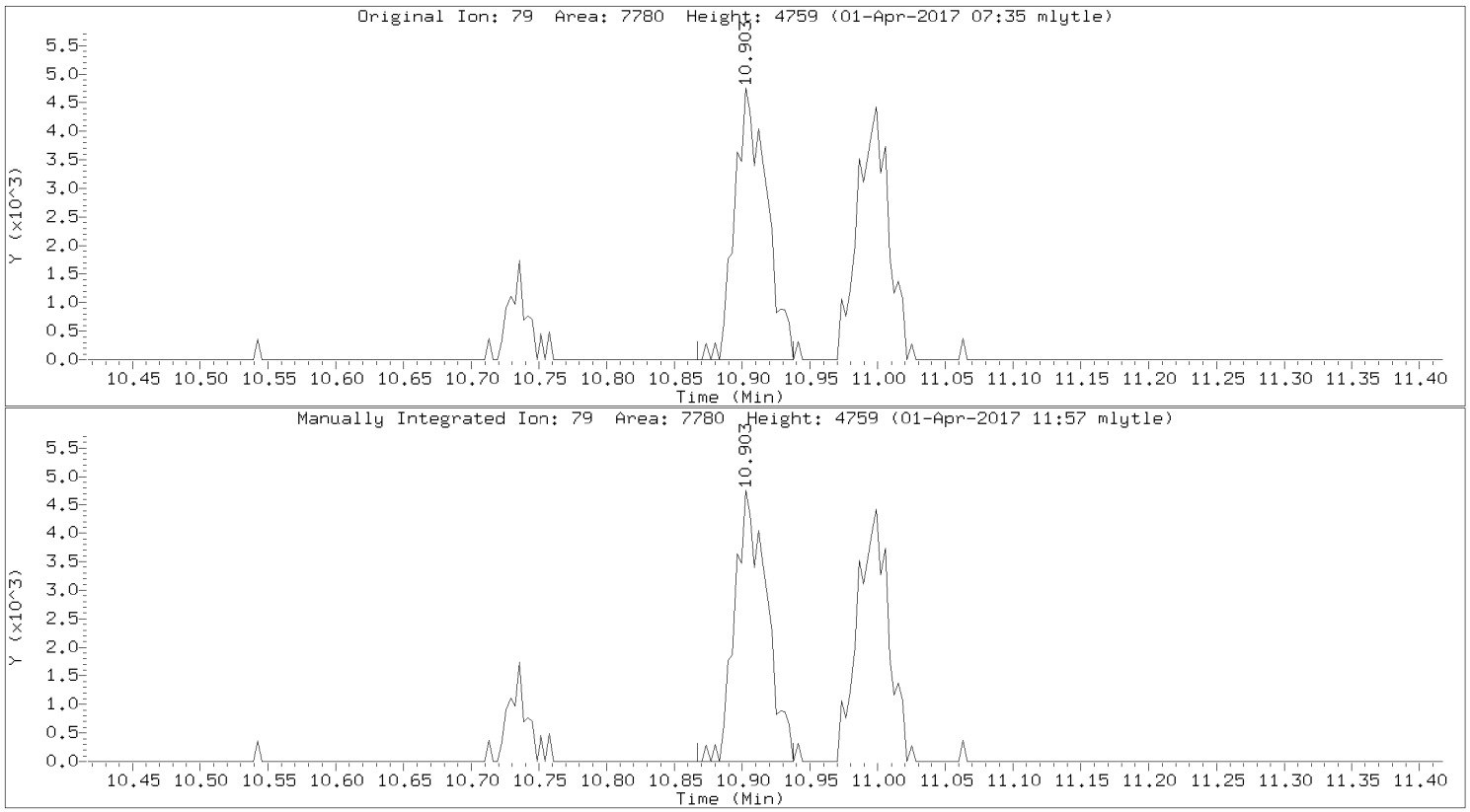






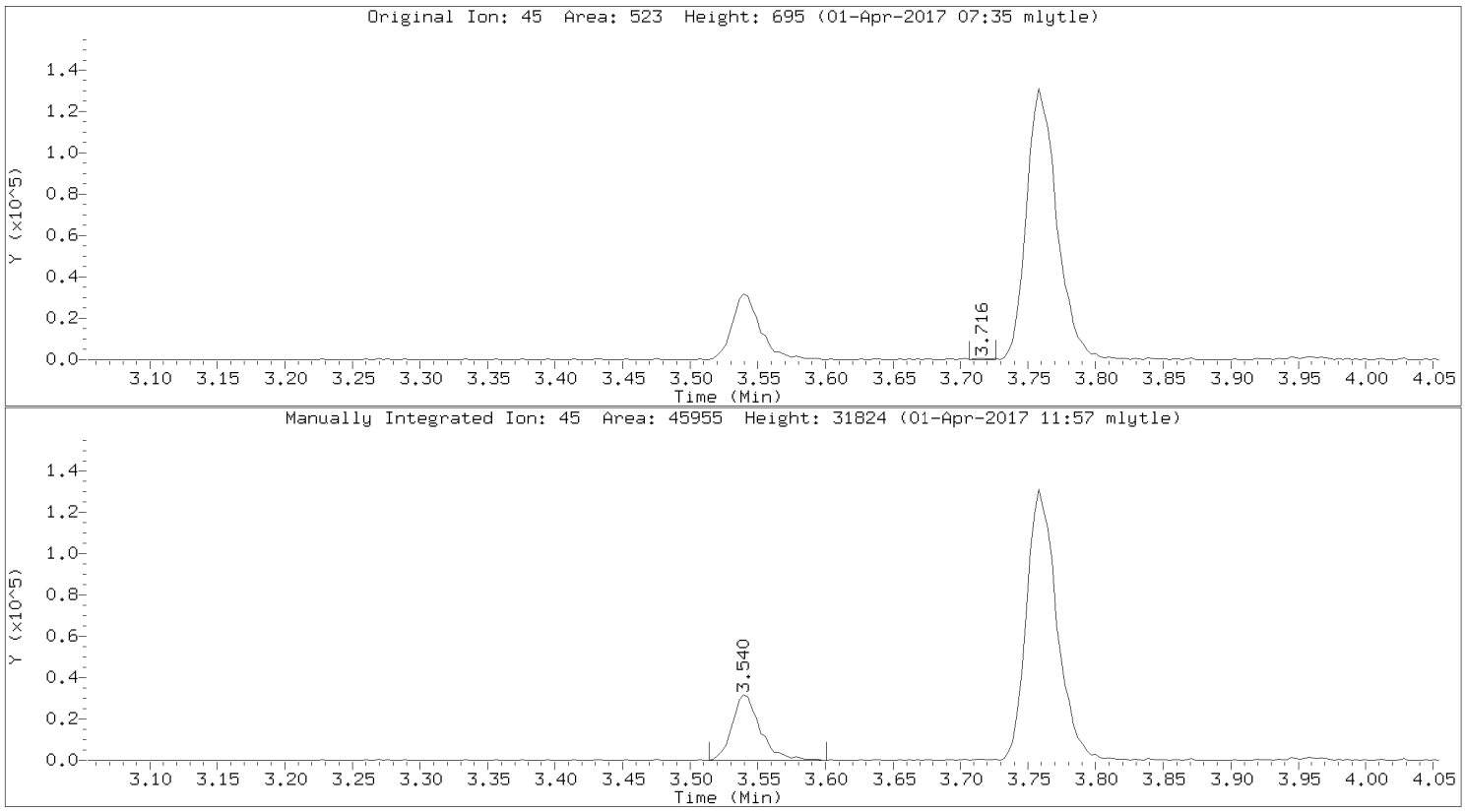


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3



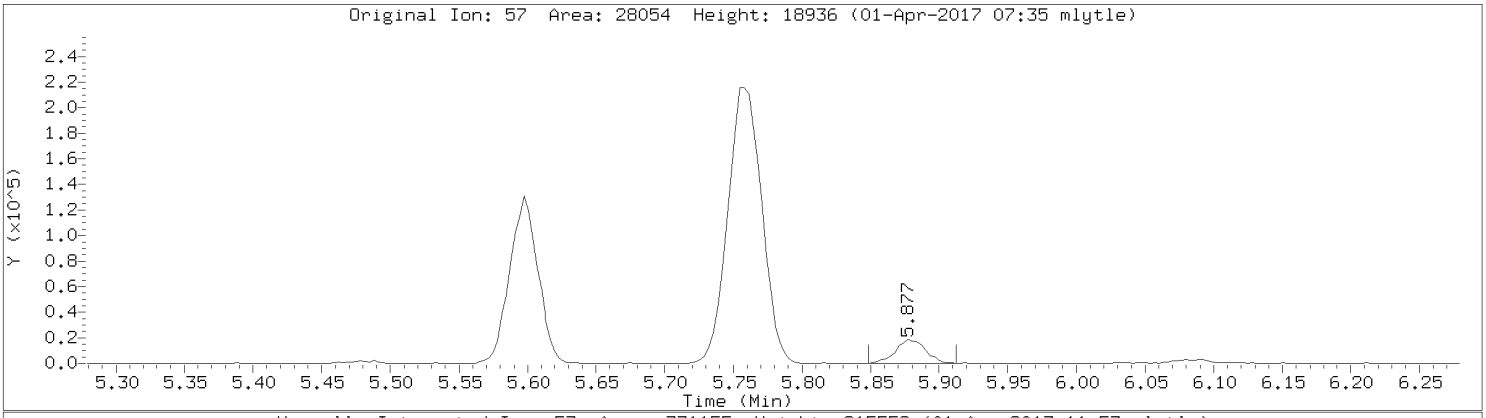
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

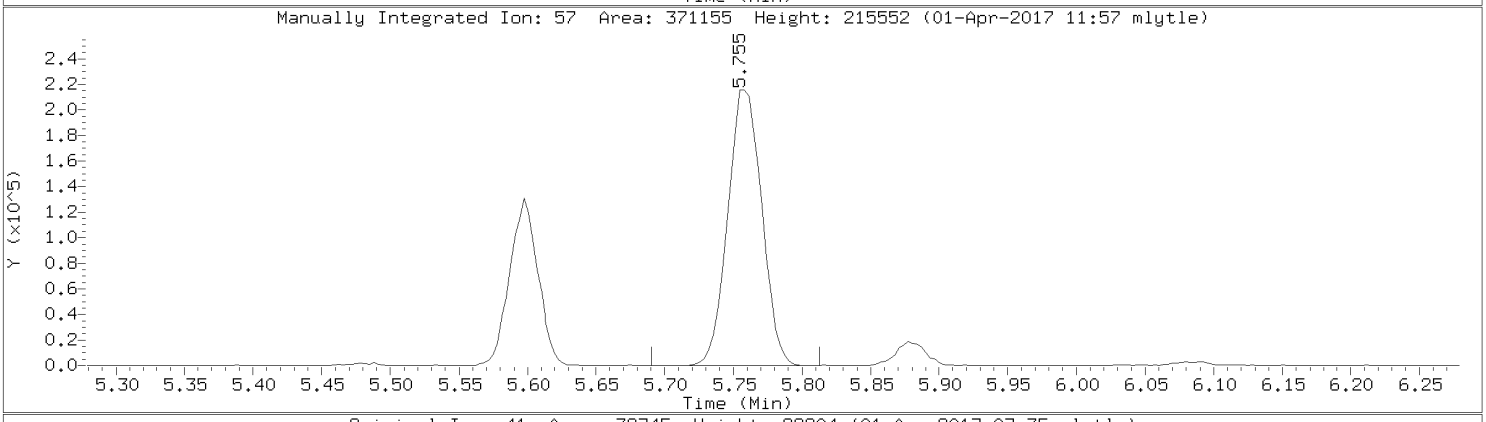
Compound: Ethanol
CAS Number: 64-17-5

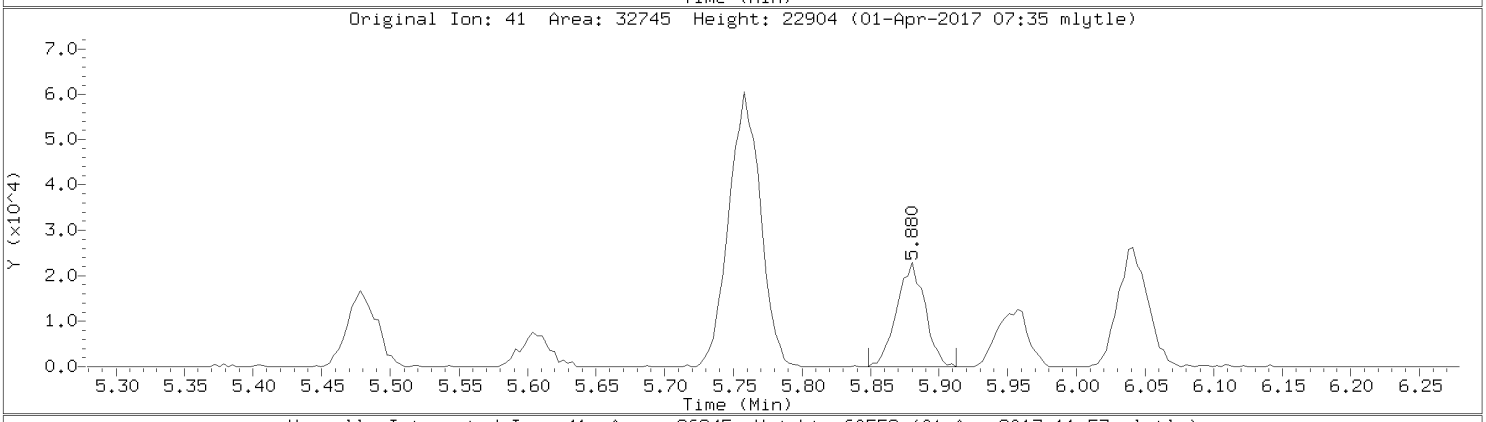


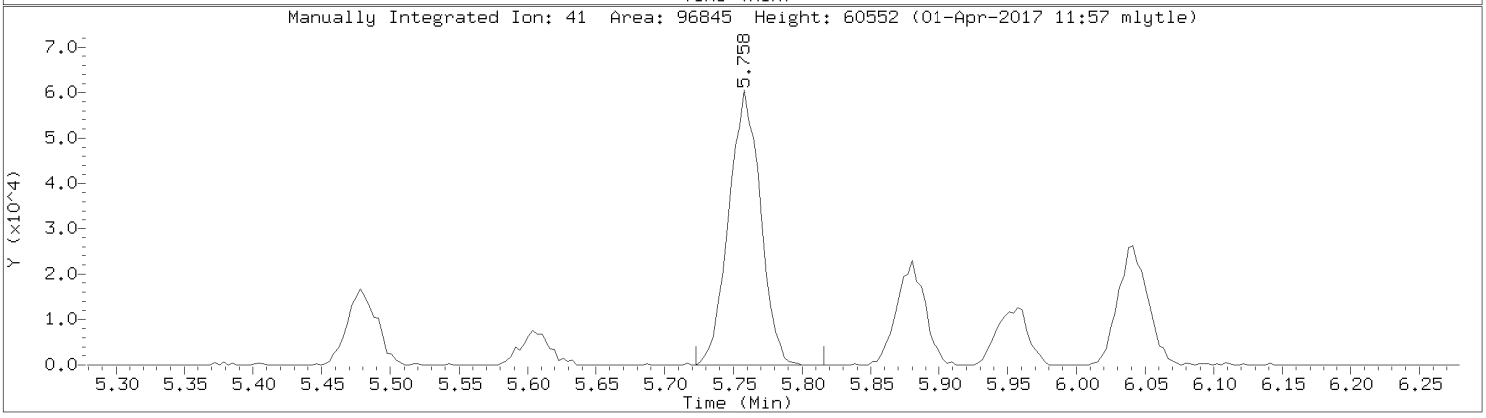
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

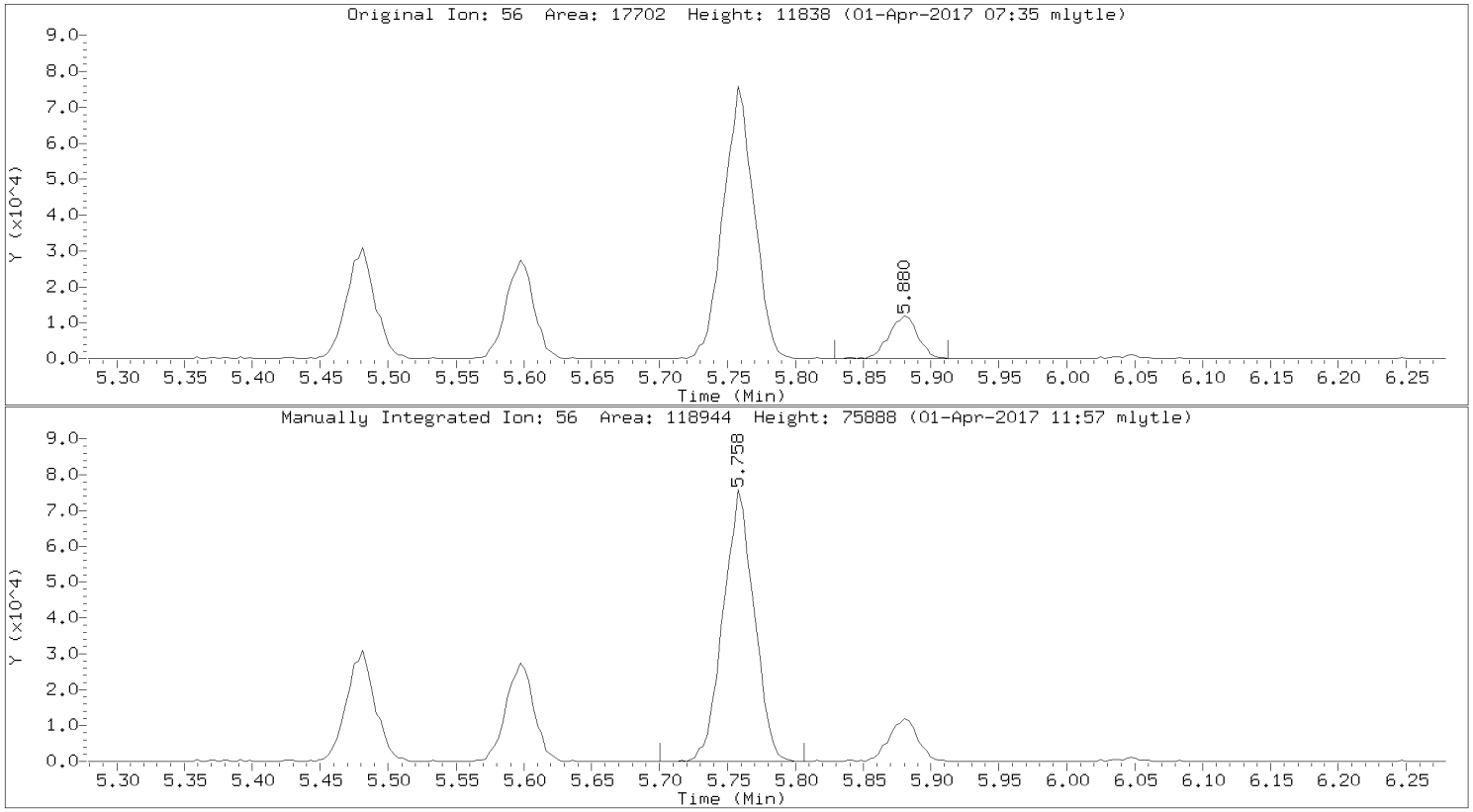






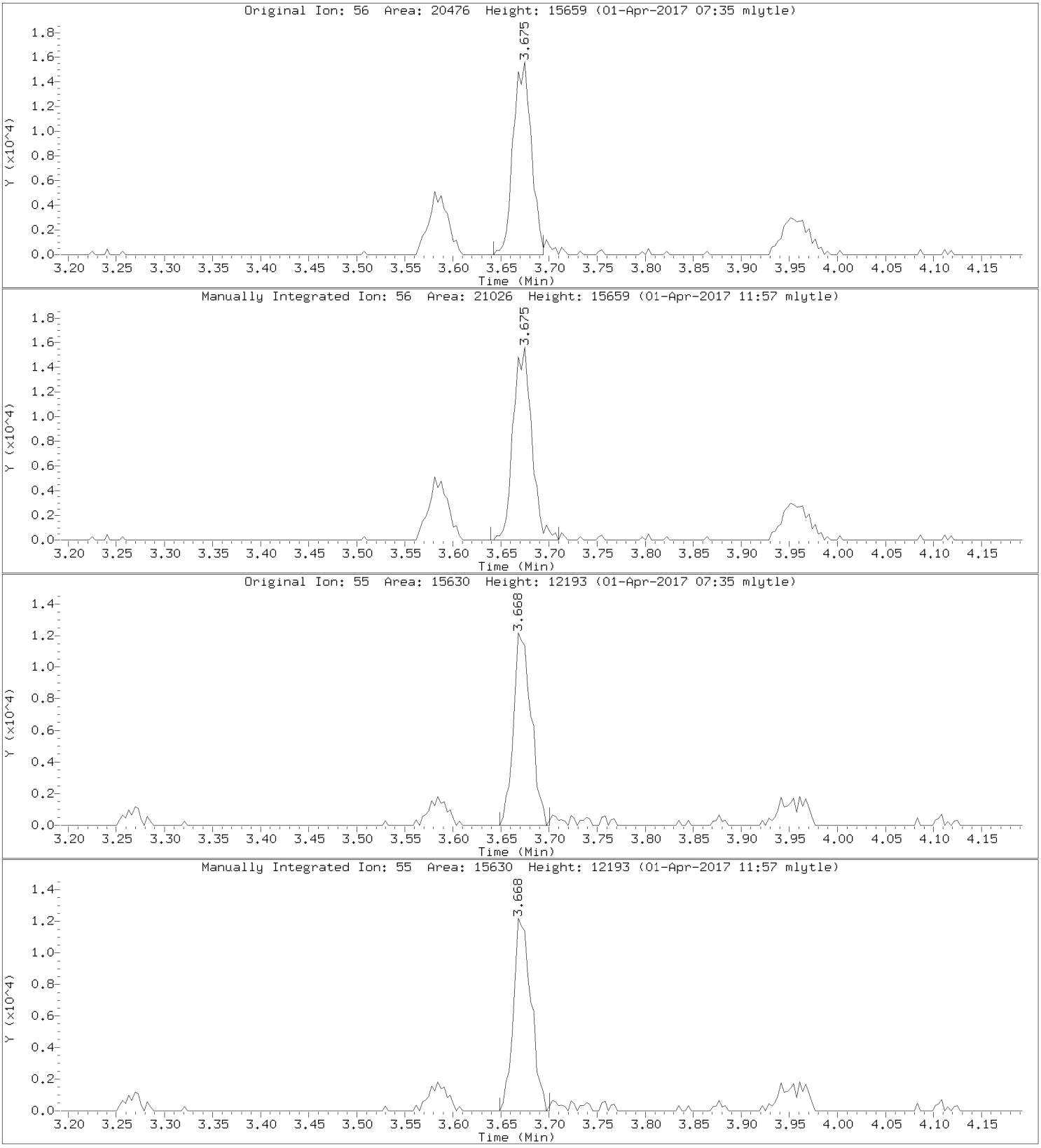


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3



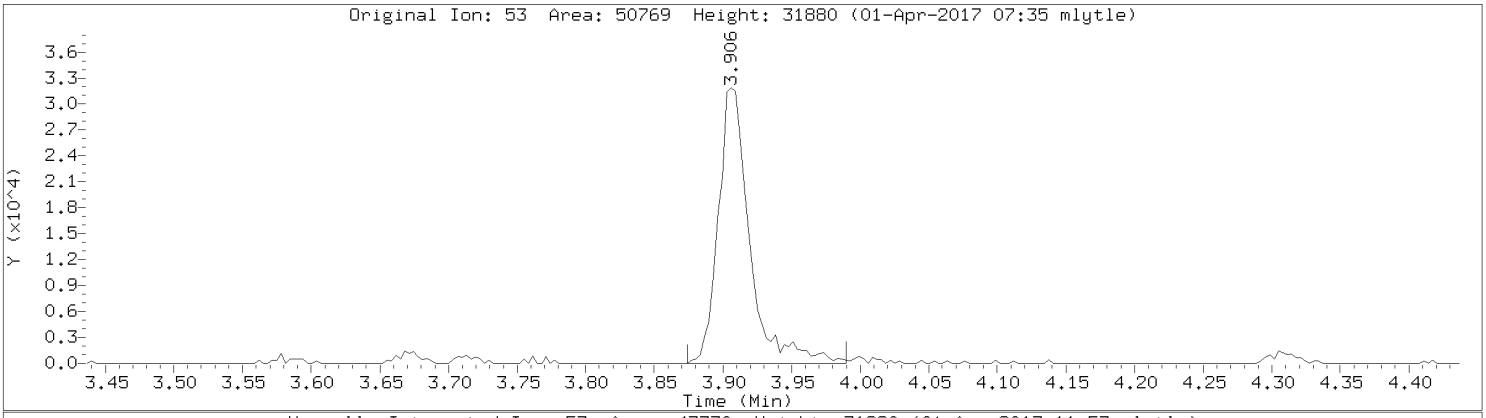
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

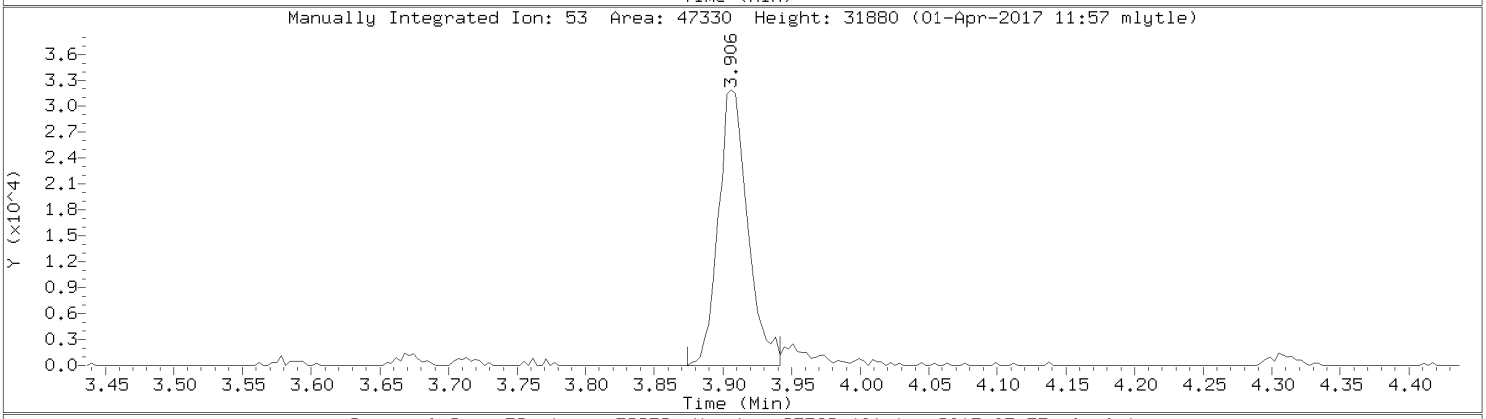
Compound: Acrolein
CAS Number: 107-02-08

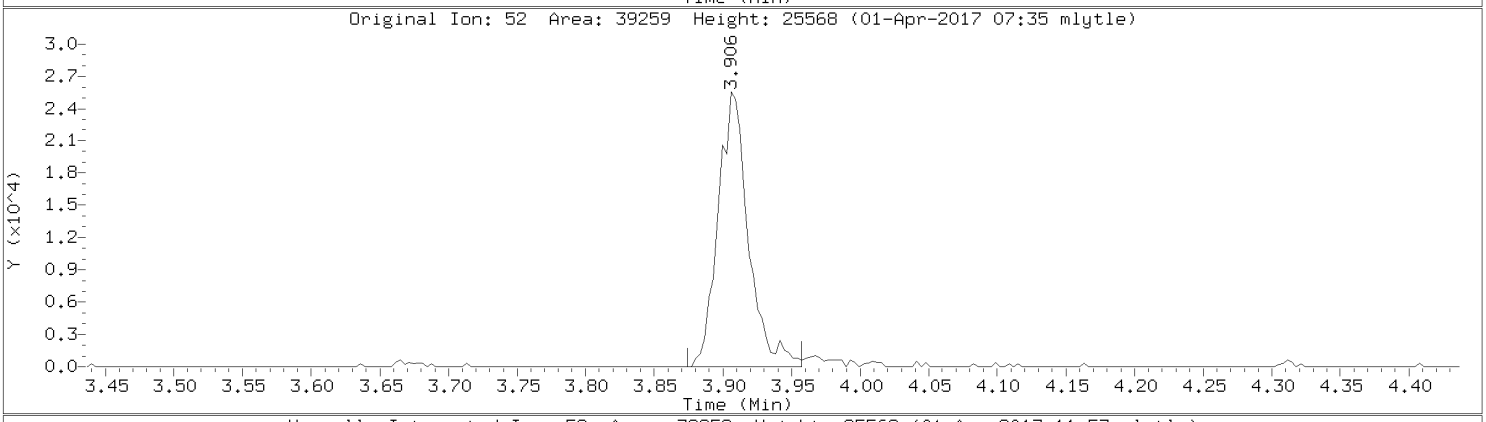


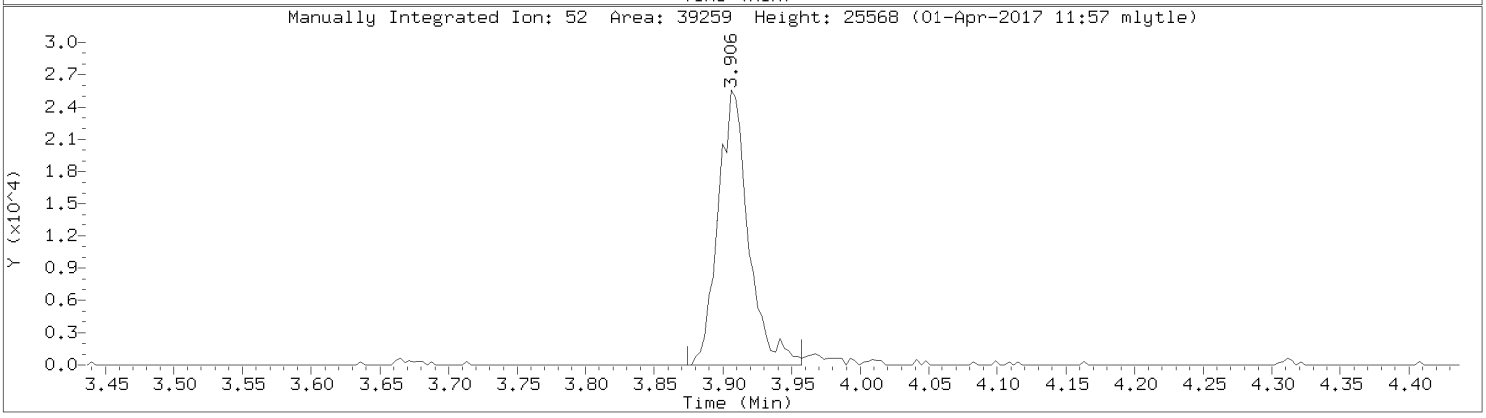
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: Acrylonitrile
CAS Number: 107-13-1



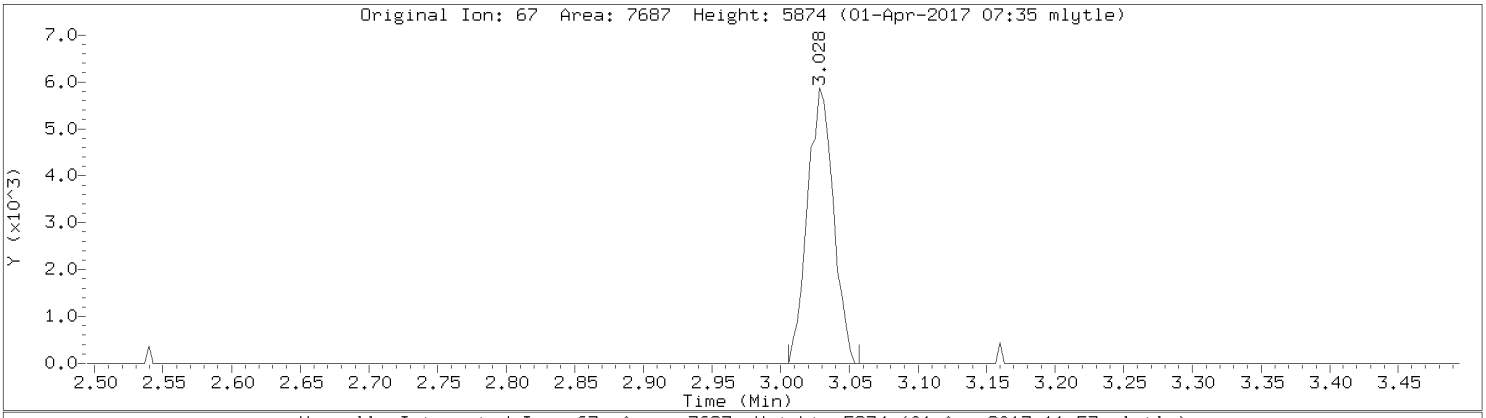


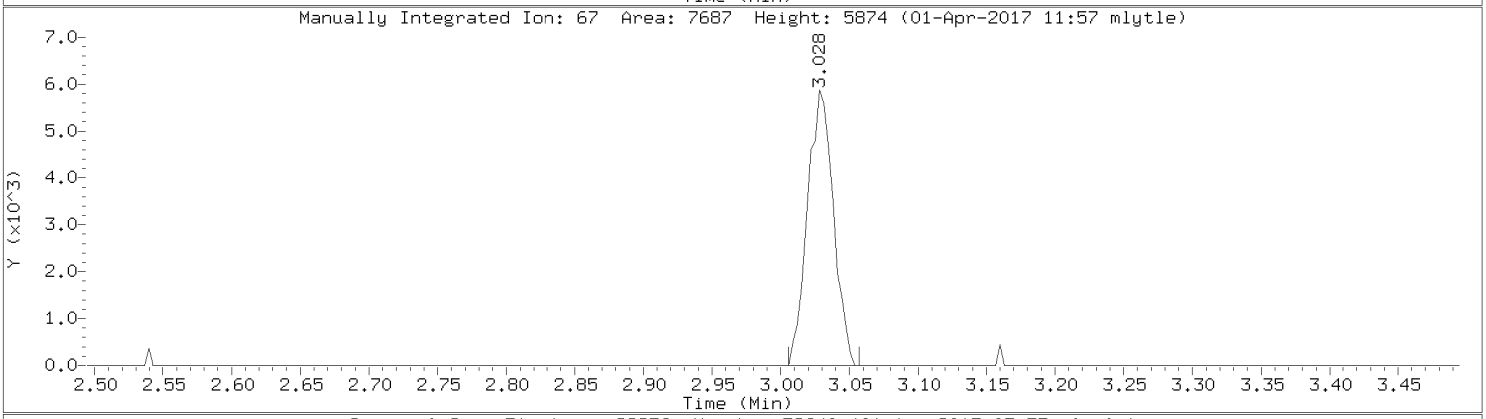


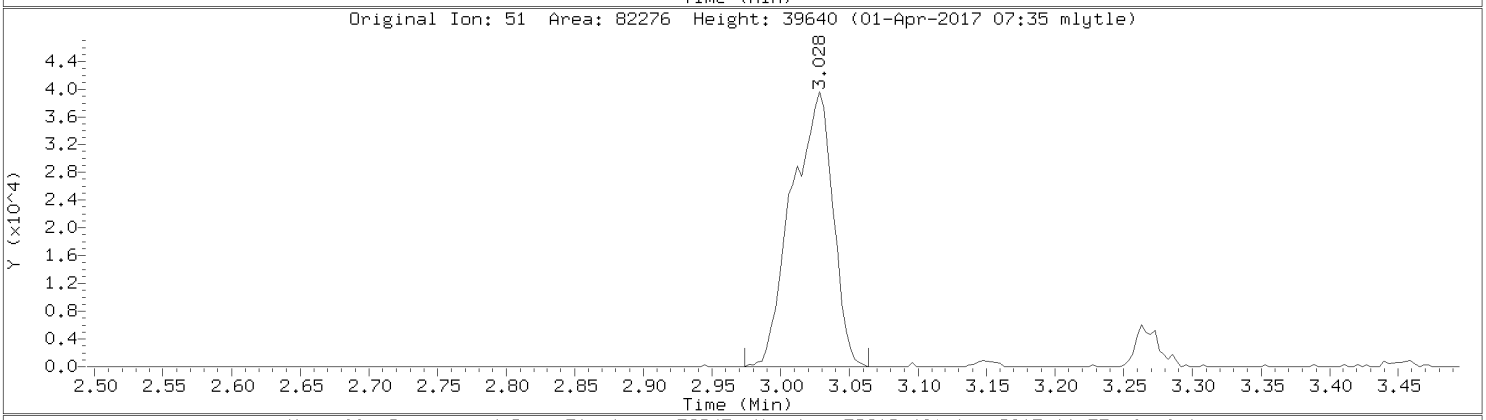


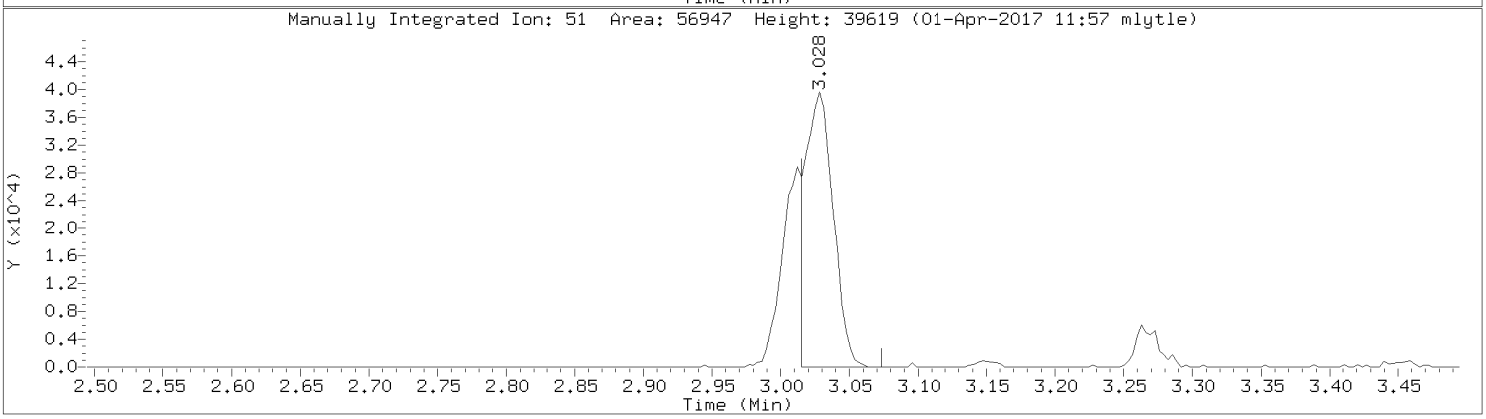
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

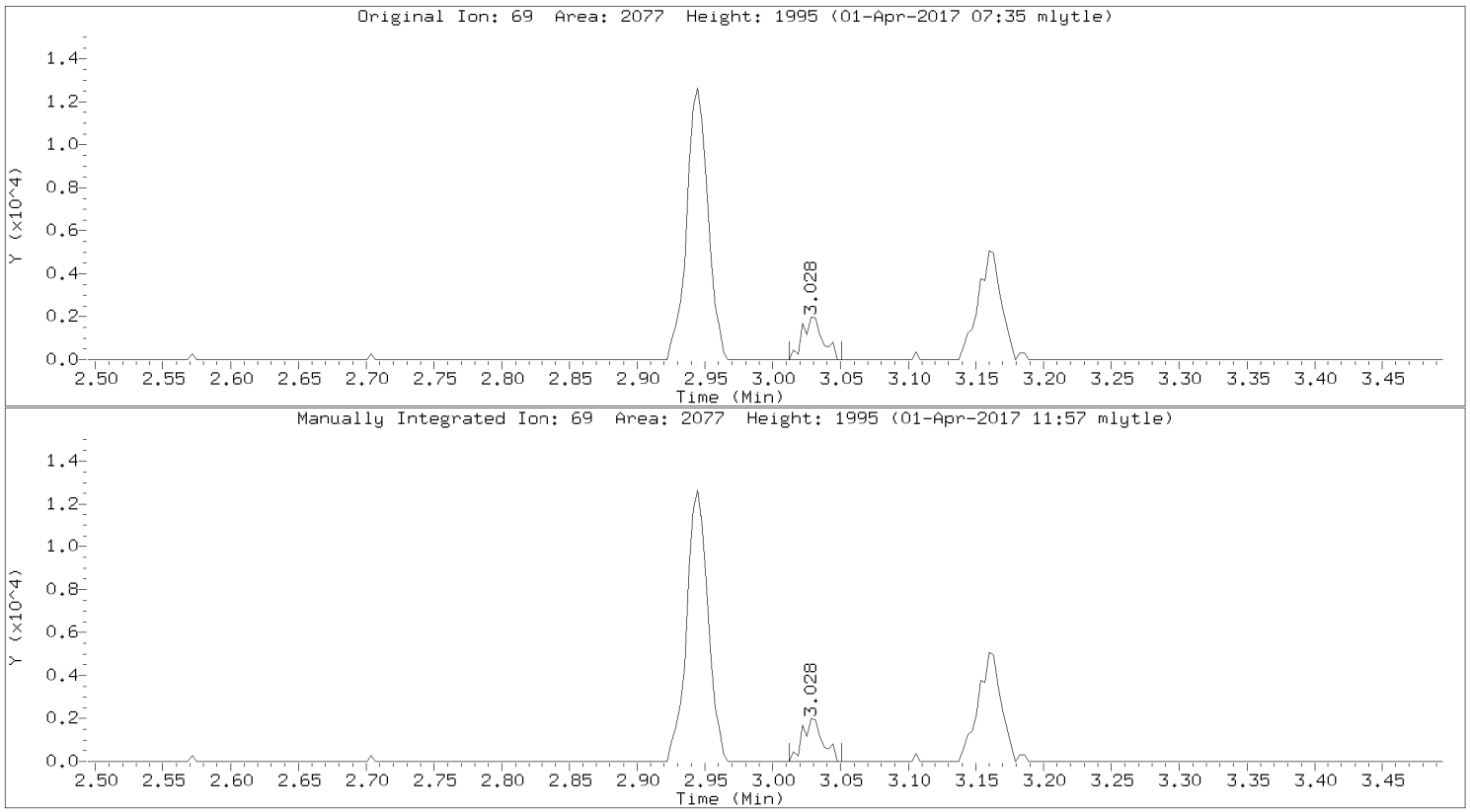






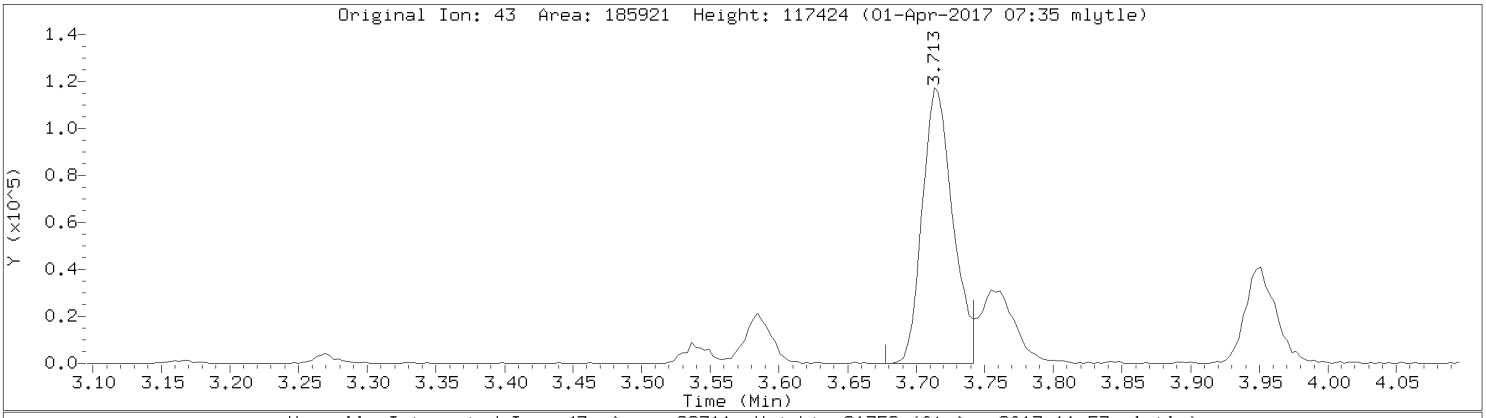


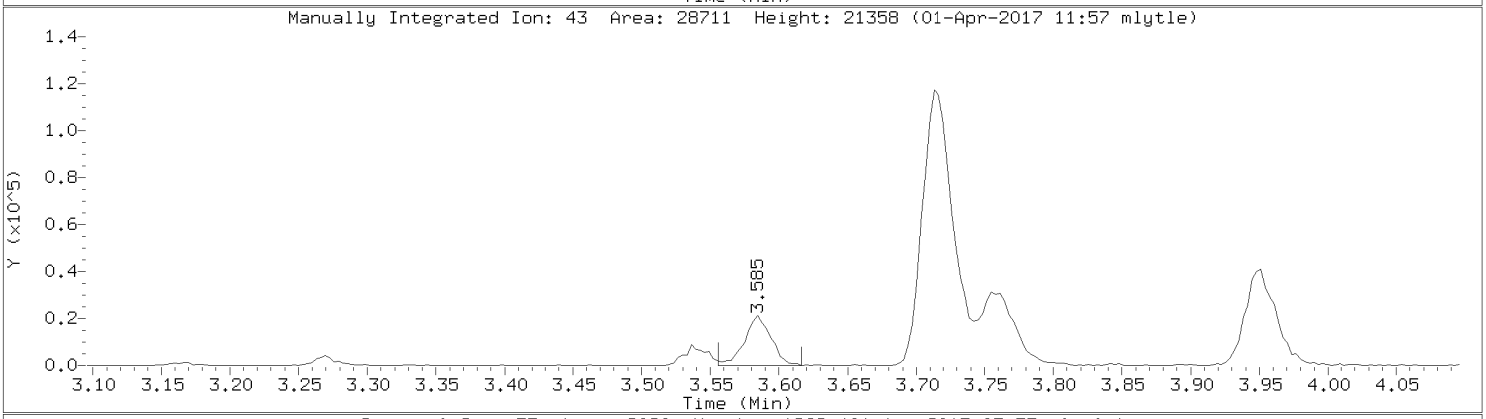
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

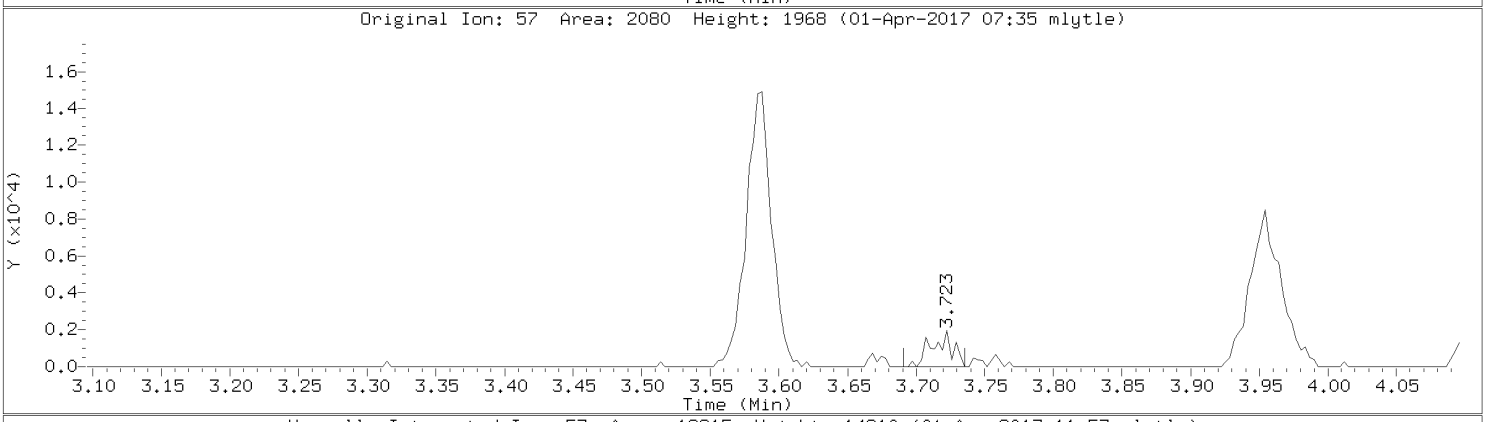


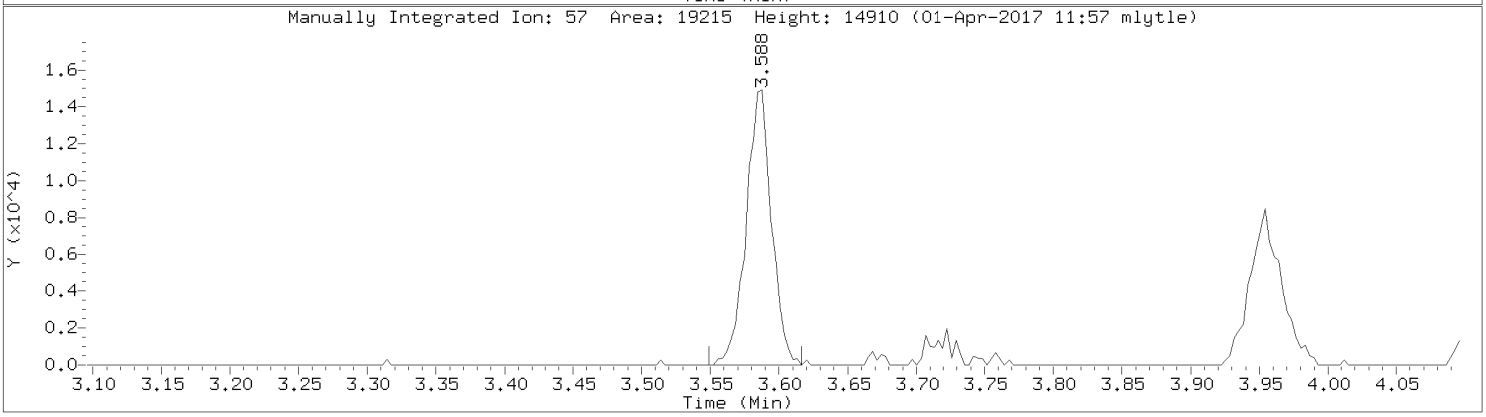
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: Isopentane
CAS Number: 78-78-4

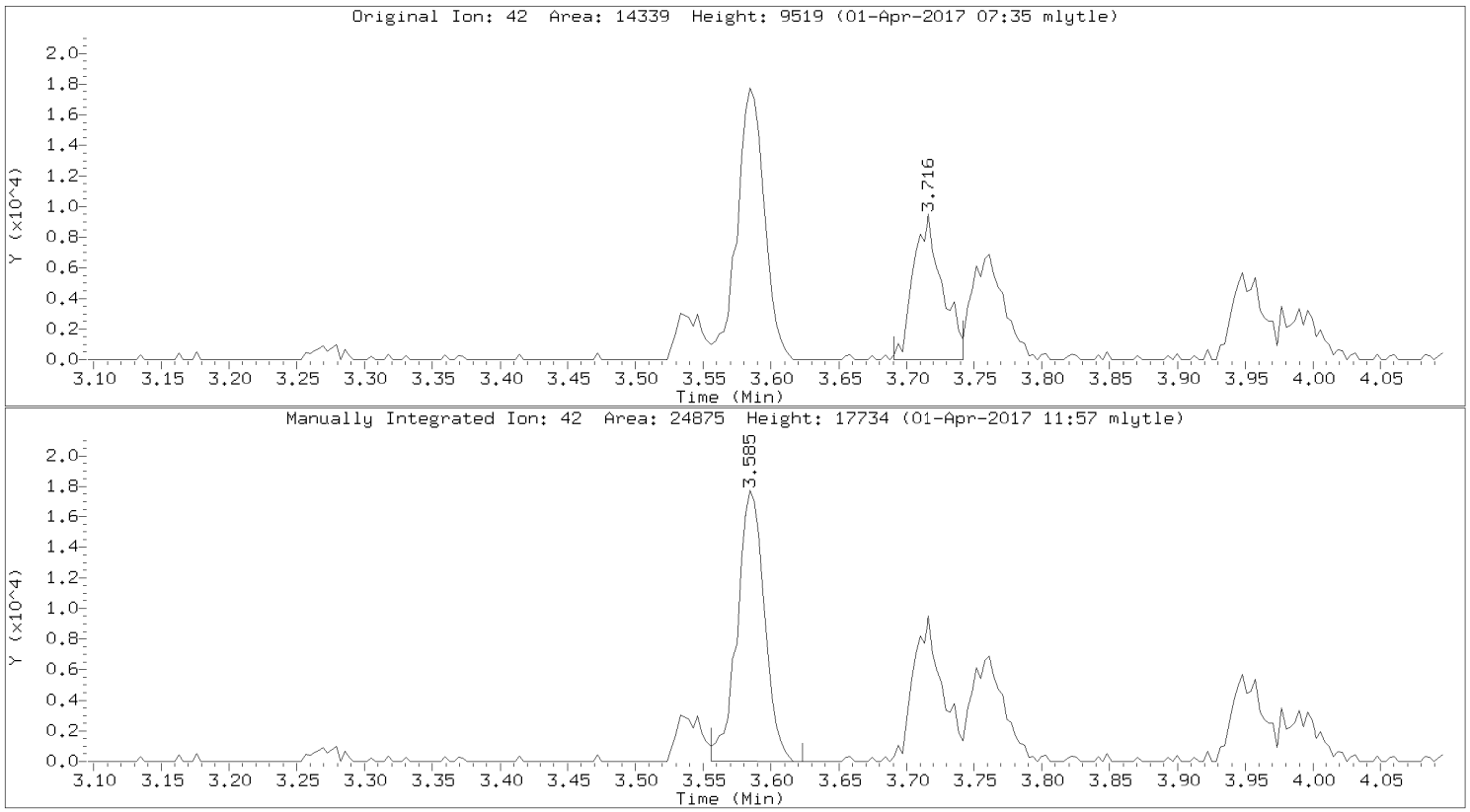






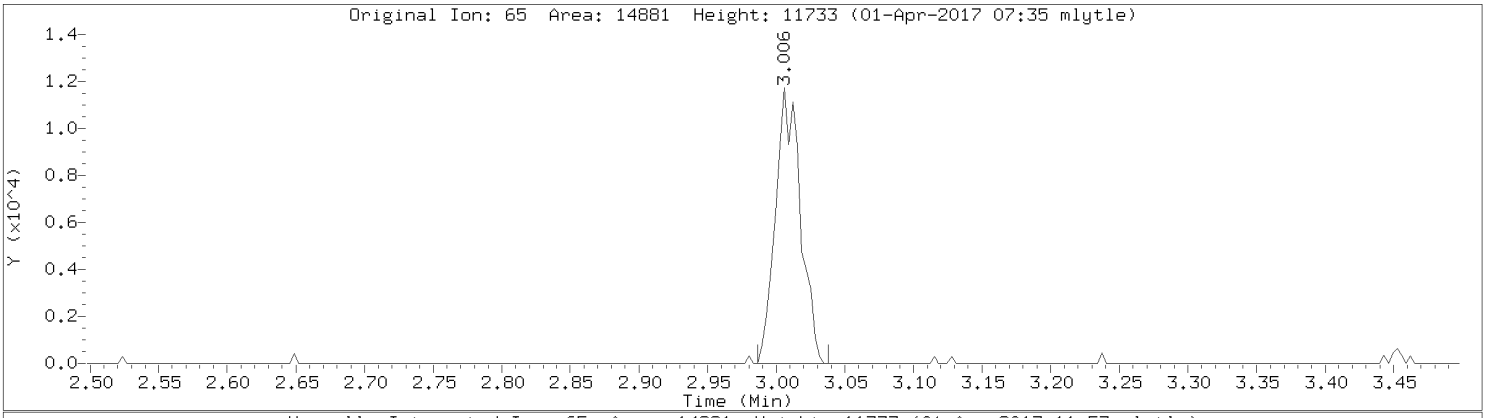


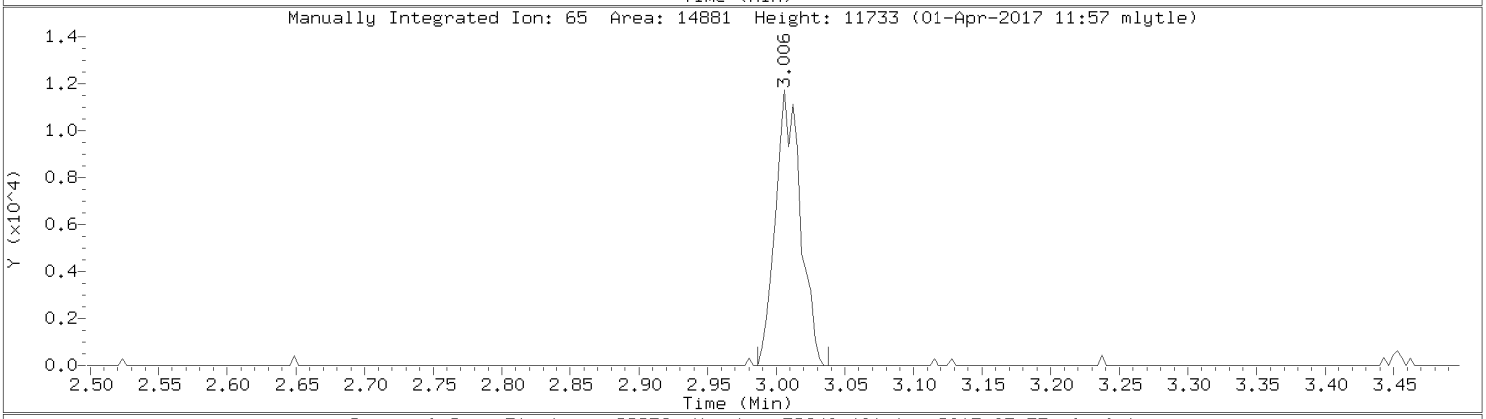
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

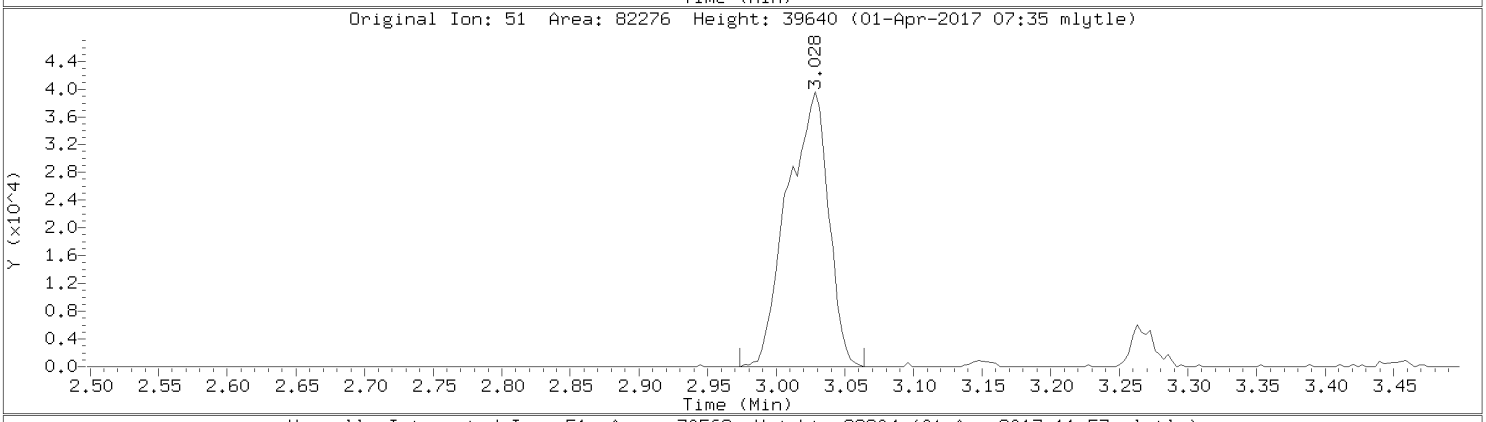


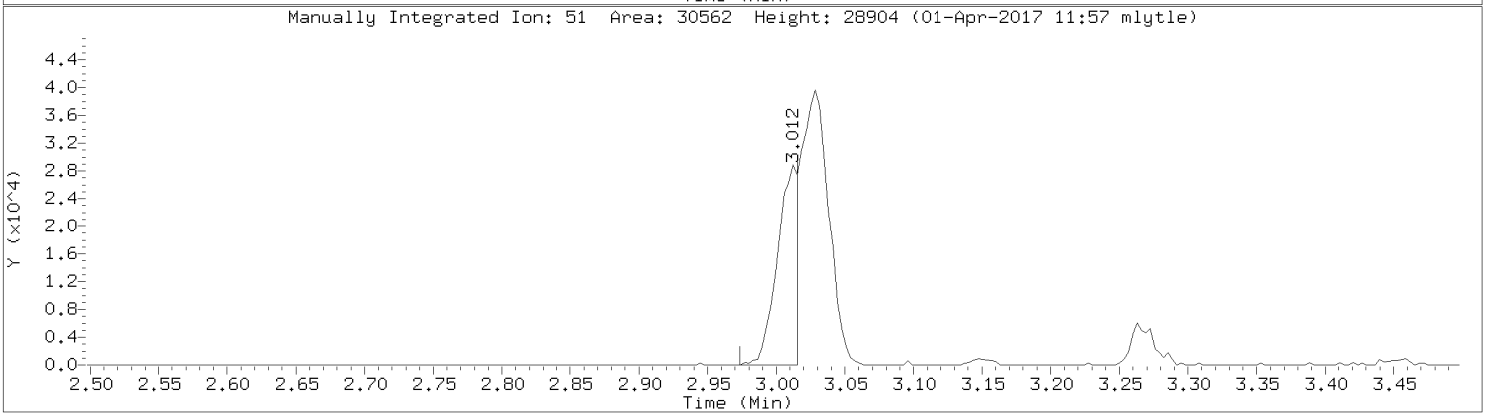
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

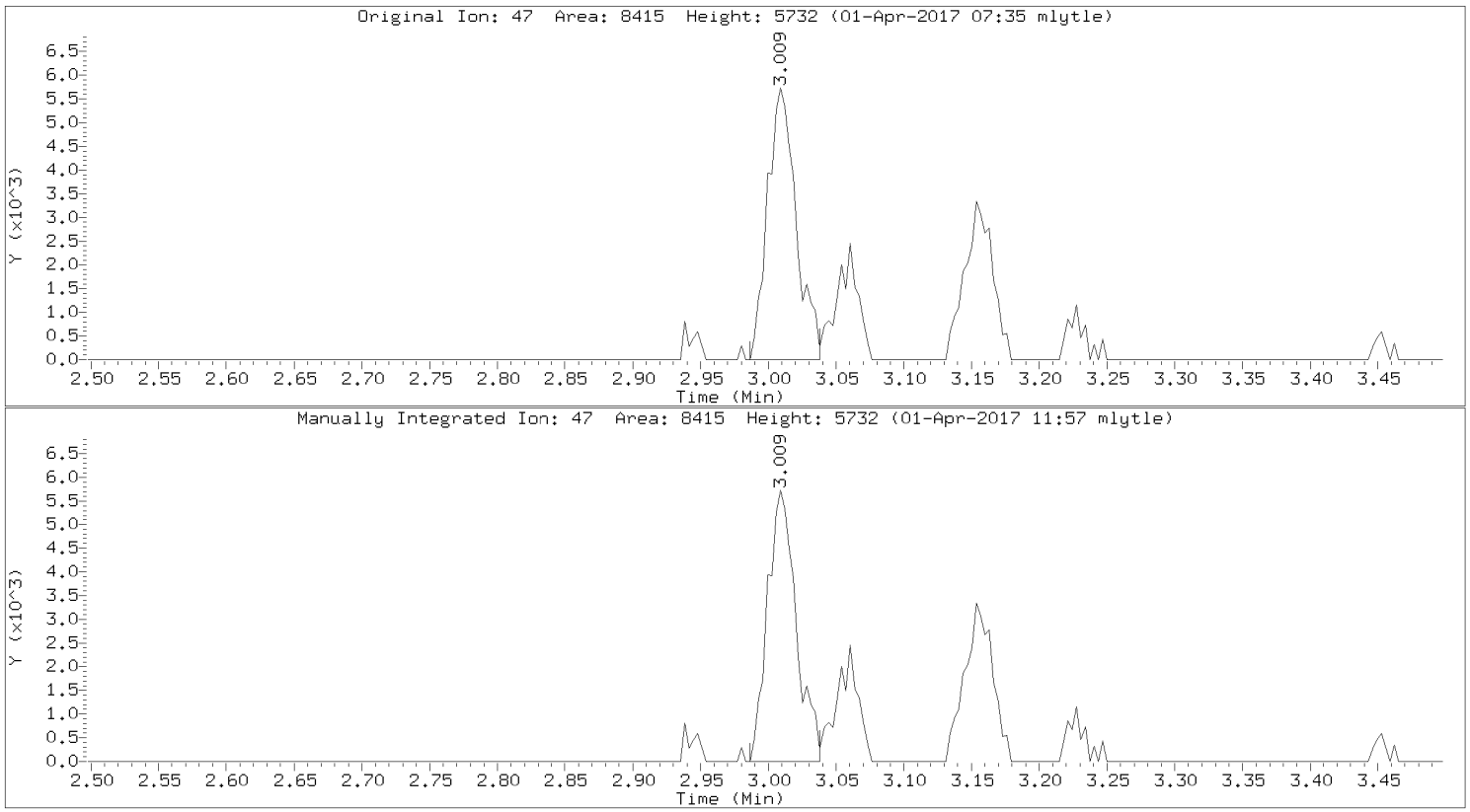






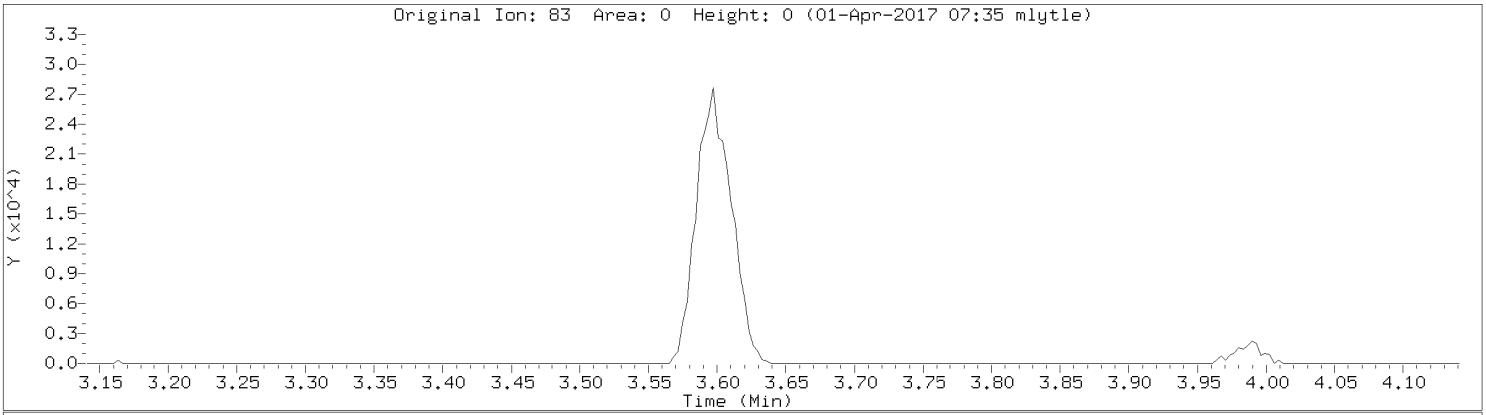


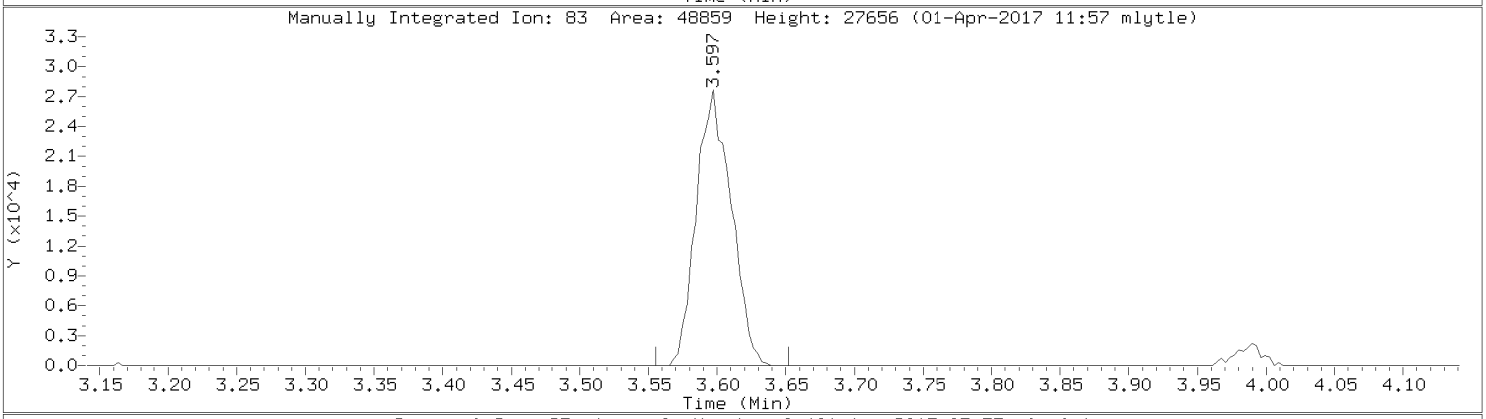
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

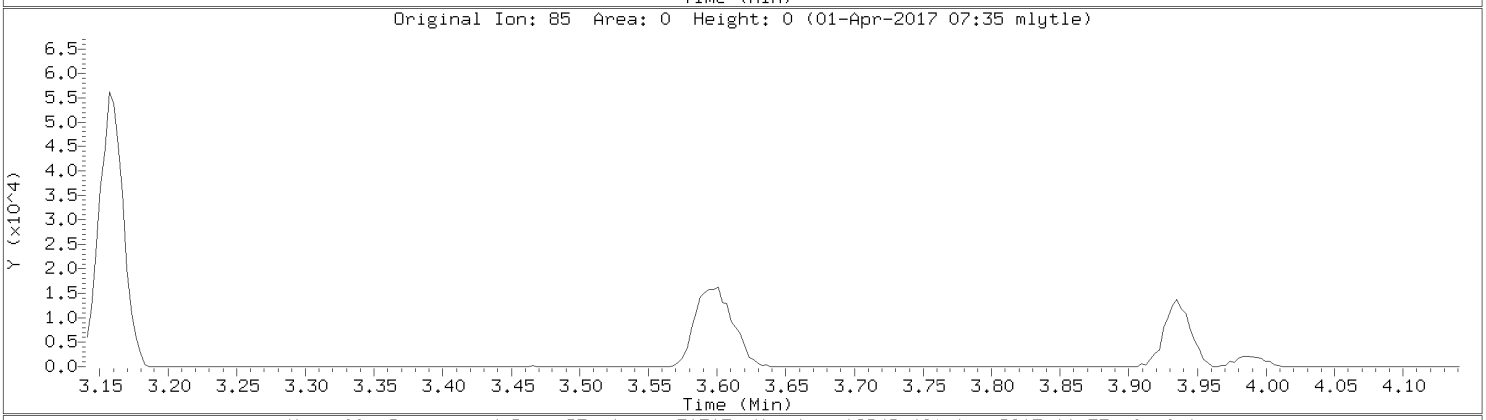


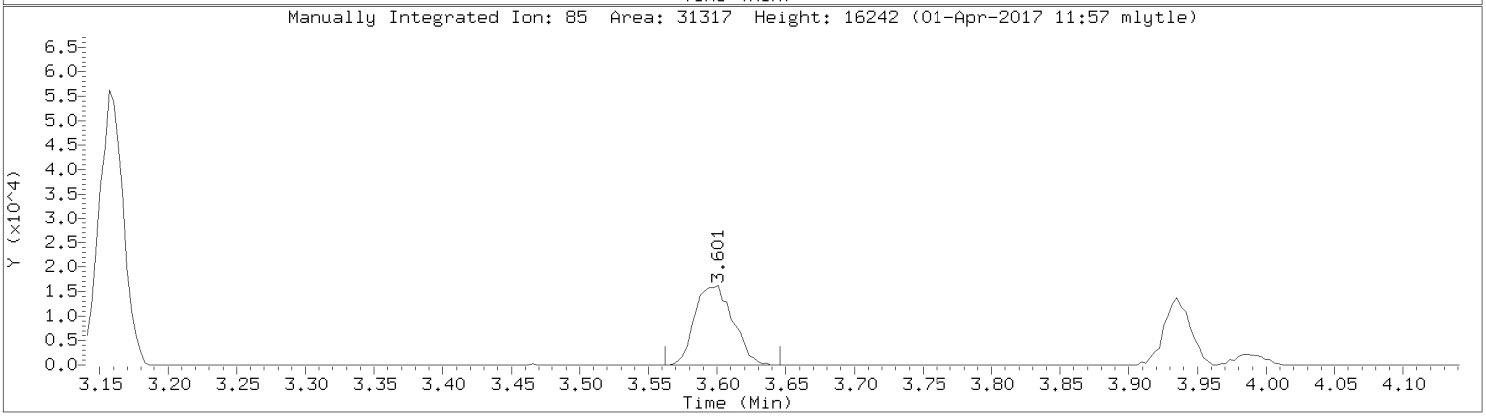
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3

Compound: Freon 123
CAS Number: 306-83-2

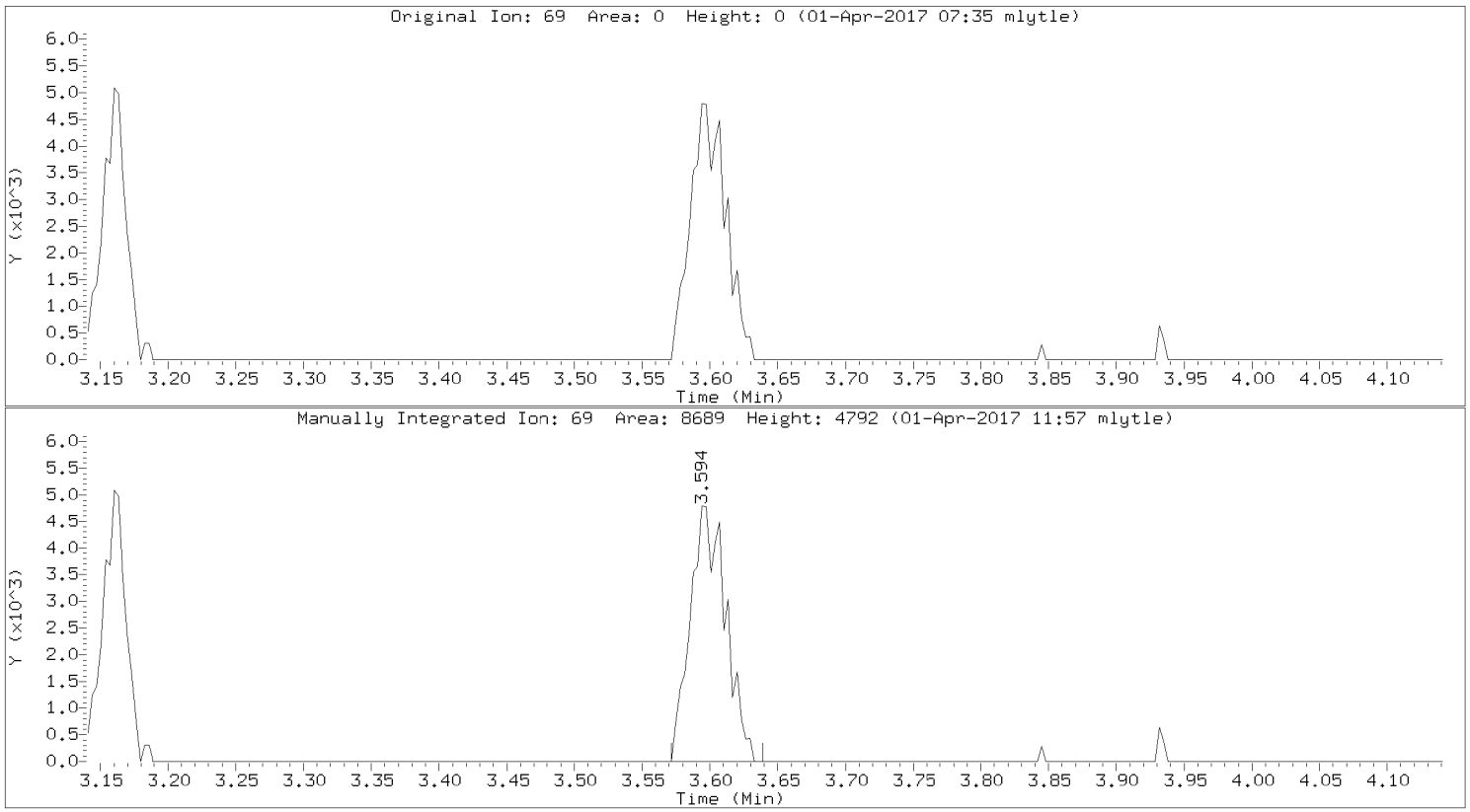








Data File: \\192.168.10.12\chem\10airB.i\033117.b/09004.D
Injection Date: 31-MAR-2017 16:36
Instrument: 10airB.i
Lab Sample ID: CAL3



Data File: \\192.168.10.12\chem\10airB.i\033117.b\09005.D
Report Date: 01-Apr-2017 11:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033117.b\09005.D
Lab Smp Id: CAL4
Inj Date : 31-MAR-2017 17:04
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Meth Date : 01-Apr-2017 11:58 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 16:36 Cal File: 09004.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.912	2.912	(0.520)	36763	1.00000	0.820
2	1,1-Difluoroethane	65	2.976	2.976	(0.532)	31004	1.00000	0.986(QM)
3	Chlorodifluoromethane	67	2.999	2.999	(0.536)	13819	1.00000	0.978(M)
4	Propylene	41	2.999	2.999	(0.536)	37263	1.00000	0.932(H)
5	Dichlorodifluoromethane	85	3.028	3.028	(0.541)	142222	1.00000	0.957
6	Chloromethane	50	3.121	3.121	(0.558)	63037	1.00000	0.969
7	Dichlorotetrafluoroethane	85	3.131	3.131	(0.559)	130571	1.00000	1.01
8	Vinyl chloride	62	3.198	3.198	(0.571)	50037	1.00000	0.978
9	1,3-Butadiene	54	3.240	3.240	(0.579)	42098	1.00000	1.03
10	Bromomethane	94	3.375	3.375	(0.603)	38653	1.00000	0.986
11	Chloroethane	64	3.430	3.430	(0.613)	20556	1.00000	0.945
12	Ethanol	45	3.533	3.533	(0.631)	88157	5.00000	4.73(M)
13	Vinyl Bromide	106	3.549	3.549	(0.634)	36437	1.00000	0.965
14	Isopentane	43	3.565	3.565	(0.637)	53513	1.00000	0.995(M)
15	Freon 123	83	3.603	3.603	(0.644)	87388	1.00000	0.981(M)
16	Trichlorofluoromethane	101	3.639	3.639	(0.650)	102482	1.00000	1.02
17	Acrolein	56	3.658	3.658	(0.654)	38828	2.50000	2.26
18	Acetone	43	3.703	3.703	(0.662)	355737	5.00000	4.95
19	Isopropyl Alcohol	45	3.751	3.751	(0.670)	393437	5.00000	4.83(H)
20	1,1-Dichloroethene	61	3.880	3.880	(0.693)	70982	1.00000	0.984
21	Acrylonitrile	53	3.899	3.899	(0.697)	93391	2.50000	2.43
22	Freon 113	101	3.922	3.922	(0.701)	82306	1.00000	0.992
23	Methyl Acetate	43	3.941	3.941	(0.704)	119849	1.00000	0.994

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09005.D
Report Date: 01-Apr-2017 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.944	3.944	(0.705)	233756	2.50000	2.36
	25 Methylene chloride	49	3.973	3.973	(0.710)	278587	5.00000	4.85
	26 Allyl Chloride	76	3.989	3.989	(0.713)	30551	2.50000	2.24(Q)
	27 Carbon Disulfide	76	4.092	4.092	(0.731)	78747	1.00000	0.889
	28 trans-1,2-dichloroethene	96	4.246	4.246	(0.759)	35226	1.00000	0.890
	29 Methyl Tert Butyl Ether	73	4.295	4.295	(0.767)	245956	2.50000	2.39
	30 Vinyl Acetate	43	4.369	4.369	(0.781)	112426	1.00000	0.881
	31 1,1-Dichloroethane	63	4.385	4.385	(0.783)	74537	1.00000	0.963(M)
$	32 Hexane-d14(S)	66	4.475	4.475	(0.800)	725931	10.0000	9.55
	33 Methyl Ethyl Ketone	72	4.545	4.545	(0.812)	17119	1.00000	0.842(Q)
	34 n-Hexane	57	4.568	4.568	(0.816)	69422	1.00000	0.897(M)
	35 Di-isopropyl Ether	45	4.590	4.590	(0.820)	151680	1.00000	0.933
	36 Ethyl Acetate	43	4.709	4.709	(0.841)	112274	1.00000	1.04
	37 cis-1,2-Dichloroethene	96	4.703	4.703	(0.840)	42294	1.00000	0.969
	38 Ethyl Tert-Butyl Ether	59	4.819	4.819	(0.861)	431373	2.50000	2.83
	39 Chloroform	83	4.819	4.819	(0.861)	96008	1.00000	1.18
	40 Tetrahydrofuran	42	4.996	4.996	(0.893)	59282	1.00000	0.941
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	104893	1.00000	0.994
	42 1,2-Dichloroethane	62	5.214	5.214	(0.932)	84432	1.00000	0.974
	43 Benzene	78	5.449	5.449	(0.974)	148709	1.00000	0.979
	44 Carbon tetrachloride	117	5.468	5.468	(0.977)	106401	1.00000	1.00
	45 Cyclohexane	56	5.475	5.475	(0.978)	85595	1.00000	0.978(M)
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(1.001)	155125	1.00000	0.946
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	2014616	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.754	(1.028)	704788	2.50000	2.63(M)
	49 Heptane	43	5.877	5.877	(1.050)	100819	1.00000	0.966
	50 1,2-Dichloropropane	63	5.957	5.957	(1.064)	59273	1.00000	0.953
	51 Trichloroethene	130	5.973	5.973	(1.067)	75936	1.00000	0.929
	52 Methyl methacrylate	69	6.037	6.037	(1.079)	51497	1.00000	0.938
	53 1,4-Dioxane	88	6.076	6.076	(1.086)	34551	1.00000	0.922
	54 Bromodichloromethane	83	6.073	6.073	(1.085)	105026	1.00000	0.981
	55 Methylcyclohexane	98	6.423	6.423	(1.148)	42179	1.00000	0.972
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.167)	342367	2.50000	2.40
	57 cis-1,3-Dichloropropene	75	6.578	6.578	(1.175)	75601	1.00000	0.900
	58 trans-1,3-Dichloropropene	75	6.976	6.976	(1.246)	65679	1.00000	0.893(H)
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	1653773	10.0000	9.80(H)
	60 1,1,2-Trichloroethane	97	7.137	7.137	(1.275)	63041	1.00000	0.952
	61 Toluene	91	7.143	7.143	(1.276)	187152	1.00000	0.959
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.854)	282292	2.50000	2.41
	63 n-Octane	43	7.574	7.574	(0.877)	131673	1.00000	0.990
	64 Dibromochloromethane	129	7.668	7.668	(0.888)	108562	1.00000	0.961
	65 1,2-Dibromoethane	107	7.899	7.899	(0.914)	99293	1.00000	0.957
	66 Tetrachloroethene	166	7.976	7.976	(0.923)	97528	1.00000	0.943
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	1167760	10.0000	
	68 Chlorobenzene	112	8.680	8.680	(1.005)	149788	1.00000	0.935
	69 Ethyl Benzene	91	8.925	8.925	(1.033)	243344	1.00000	0.981
	70 m&p-Xylene	91	9.076	9.076	(1.051)	373271	2.00000	1.99
	71 n-Nonane	43	9.465	9.465	(1.096)	125680	1.00000	1.03
	72 Bromoform	173	9.475	9.475	(1.097)	81565	1.00000	0.958
	73 Styrene	104	9.500	9.500	(1.100)	133840	1.00000	0.950
	74 o-Xylene	91	9.571	9.571	(1.108)	190342	1.00000	0.975
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	107116	1.00000	0.971
	76 Isopropylbenzene	105	10.156	10.156	(1.176)	261145	1.00000	0.956
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	276523	1.00000	0.981

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09005.D
Report Date: 01-Apr-2017 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	235106	1.00000	0.987
79	1,3,5-Trimethylbenzene	105	10.999	10.999	(1.273)	203949	1.00000	0.961
80	n-Decane	57	11.375	11.375	(2.032)	112954	1.00000	0.885
81	Tert-Butyl Benzene	119	11.494	11.494	(1.331)	217000	1.00000	0.976
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	187629	1.00000	0.982
83	1,3-Dichlorobenzene	146	11.790	11.790	(1.365)	104554	1.00000	0.925
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	273327	1.00000	0.989
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.847	(1.371)	497741	10.0000	9.43
86	Benzyl Chloride	91	11.860	11.860	(1.373)	50393	1.00000	0.643
87	1,4-Dichlorobenzene	146	11.883	11.883	(1.376)	101723	1.00000	0.931(M)
88	p-Isopropyltoluene	119	11.982	11.982	(1.387)	221833	1.00000	0.953
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	179606	1.00000	0.944
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	94130	1.00000	0.890
91	N-Butylbenzene	91	12.458	12.458	(1.442)	153709	1.00000	0.928
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	24950	1.00000	0.803
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.625)	12694	1.00000	0.687
94	Naphthalene	128	14.169	14.169	(1.640)	48803	1.00000	0.853
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	37073	1.00000	0.784

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09005.D
Report Date: 01-Apr-2017 11:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09005.D
Lab Smp Id: CAL4
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Misc Info:

Calibration Date: 31-MAR-2017
Calibration Time: 17:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

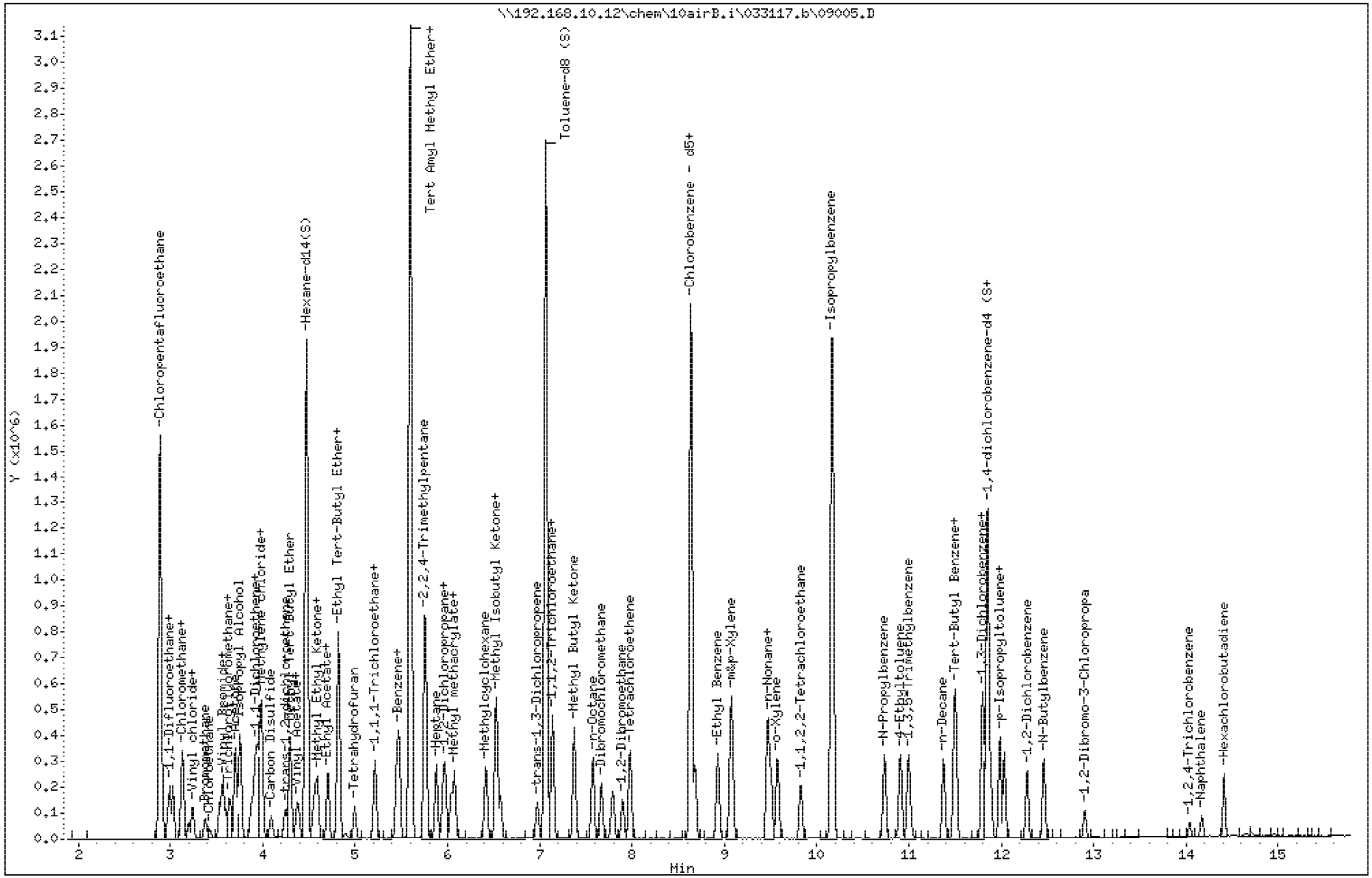
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	2014616	4.02
67 Chlorobenzene - d	1173864	704318	1643410	1167760	-0.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

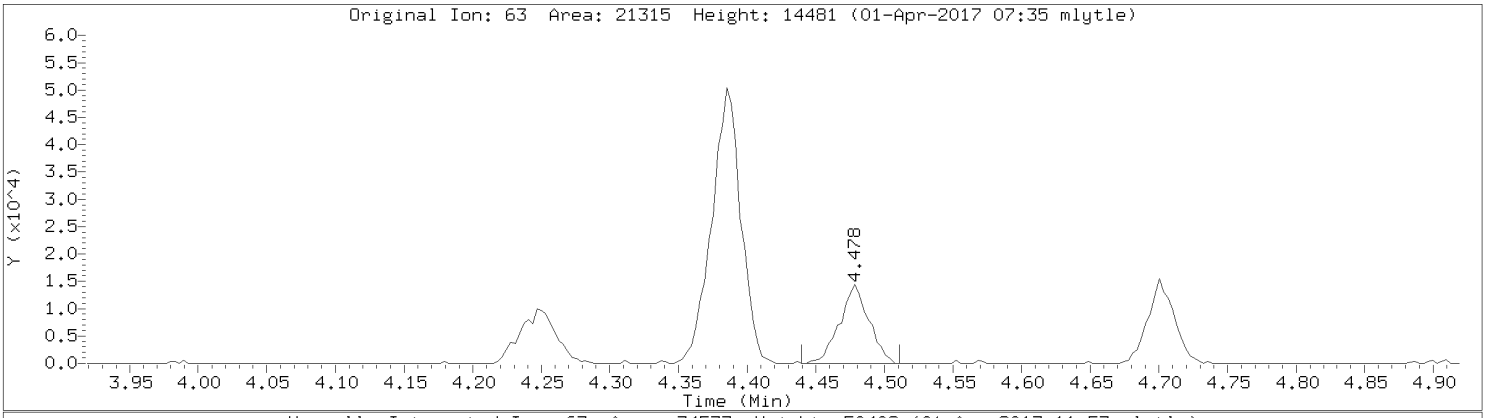
Data File: \\192.168.10.12\chem\10airB.i\033117.b\09005.D
Date : 31-MAR-2017 17:04
Client ID:
Sample Info:

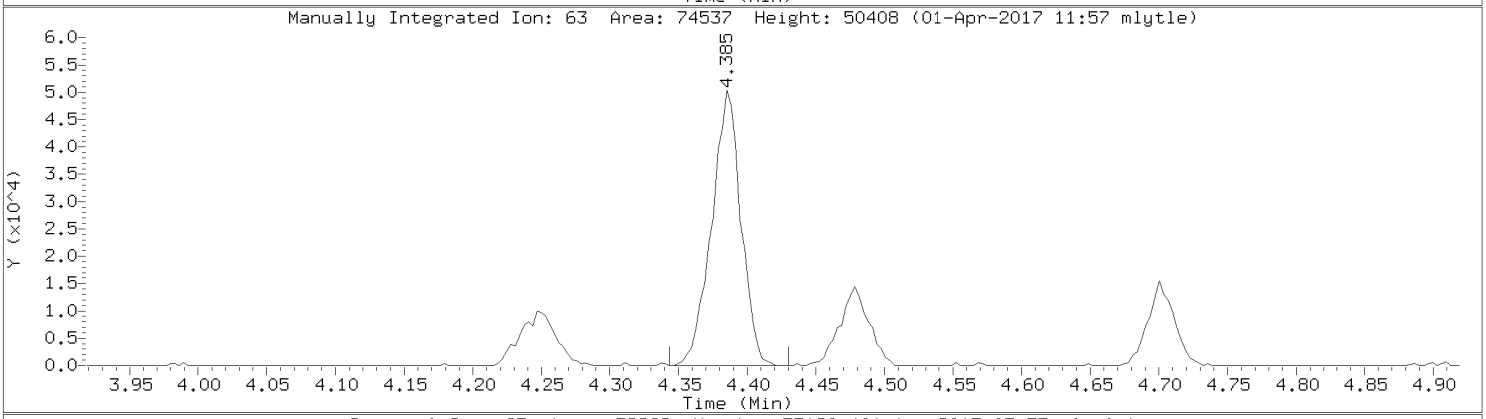
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

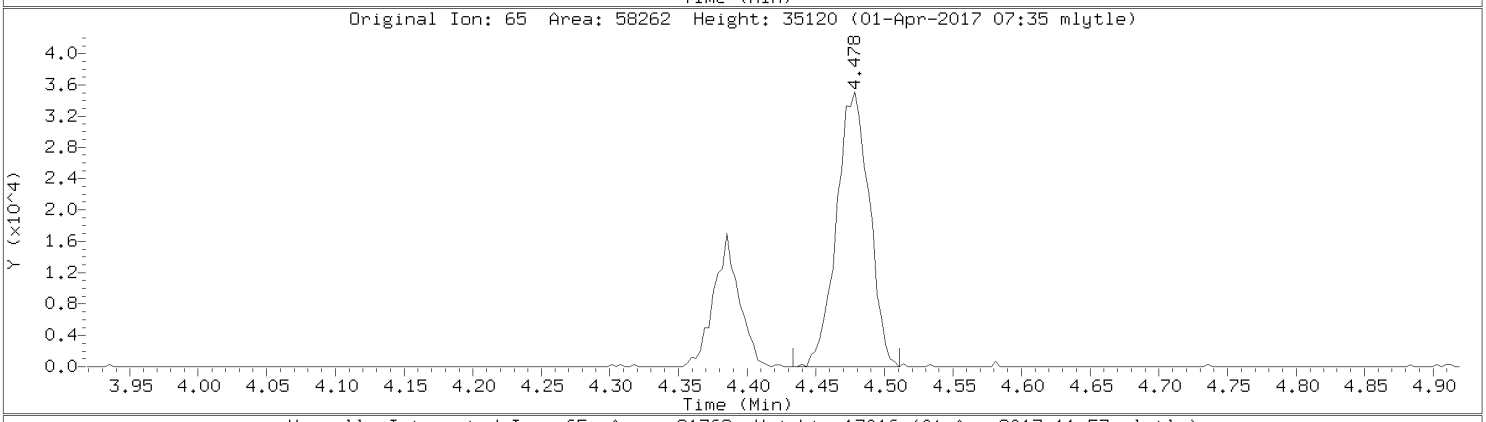


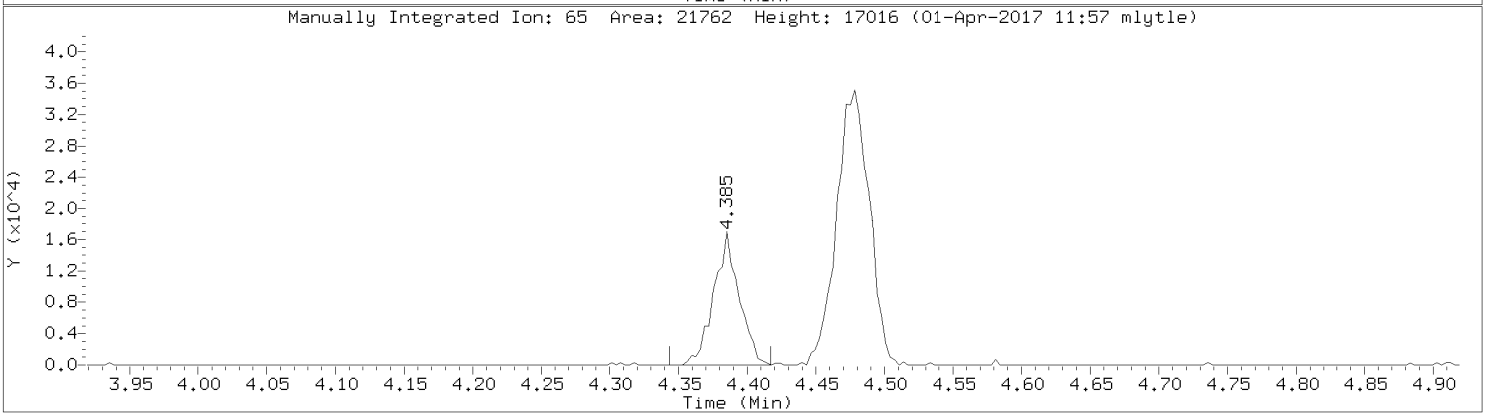
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

Compound: 1,1-Dichloroethane
CAS Number: 75-34-3



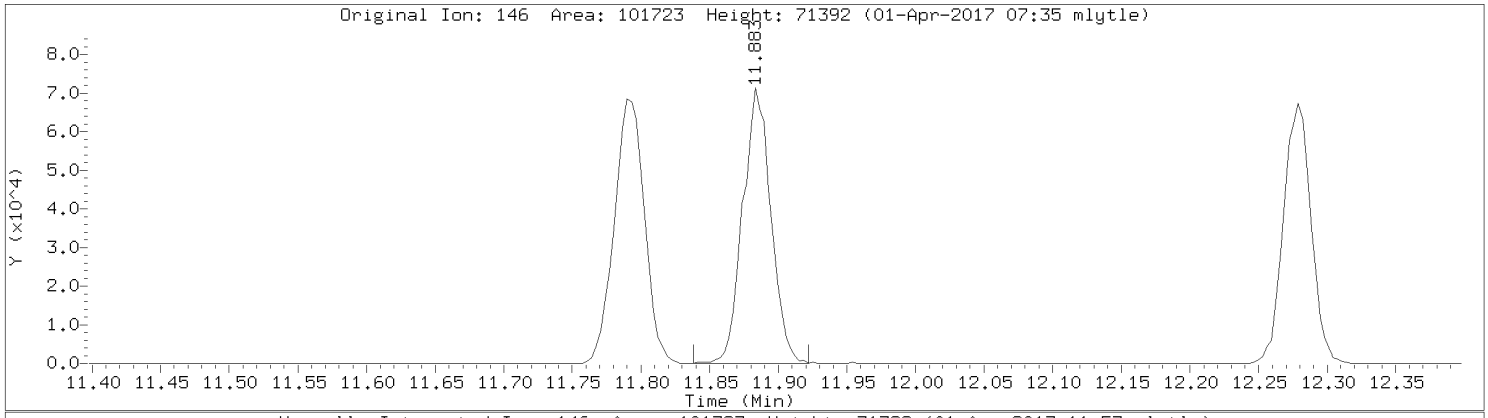


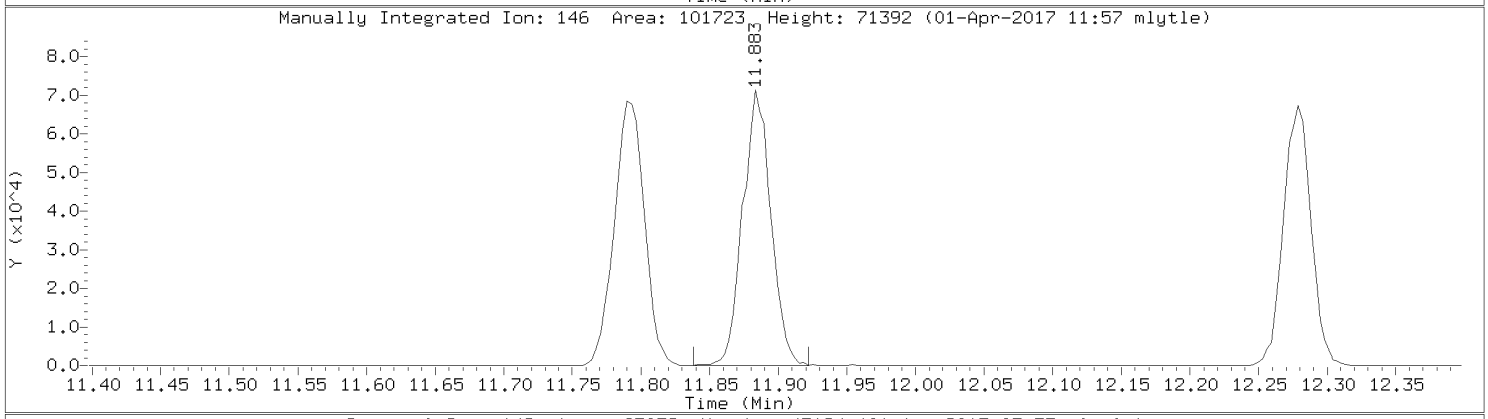


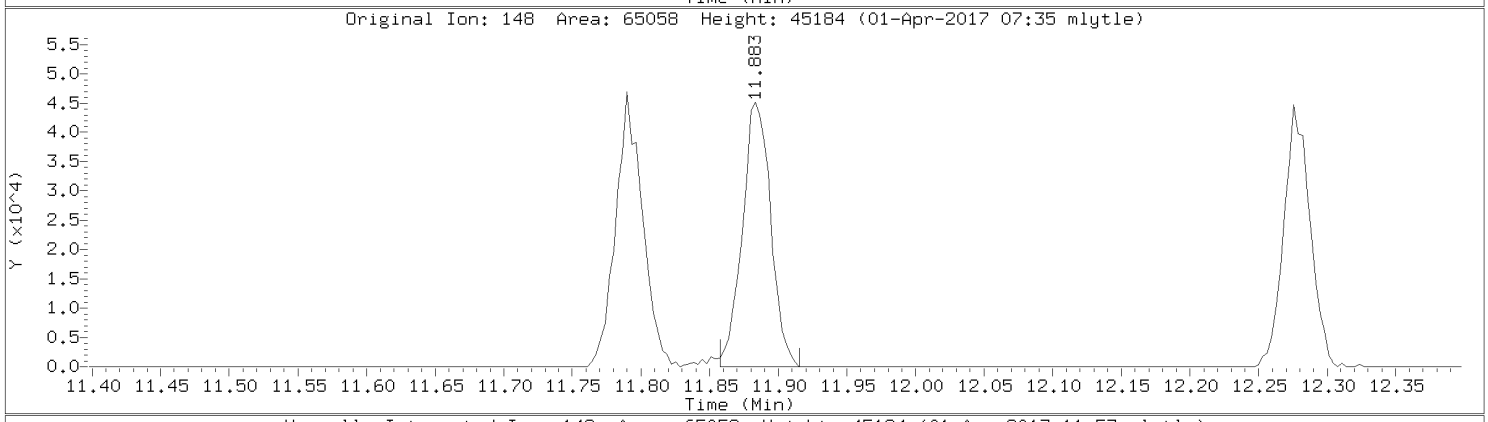


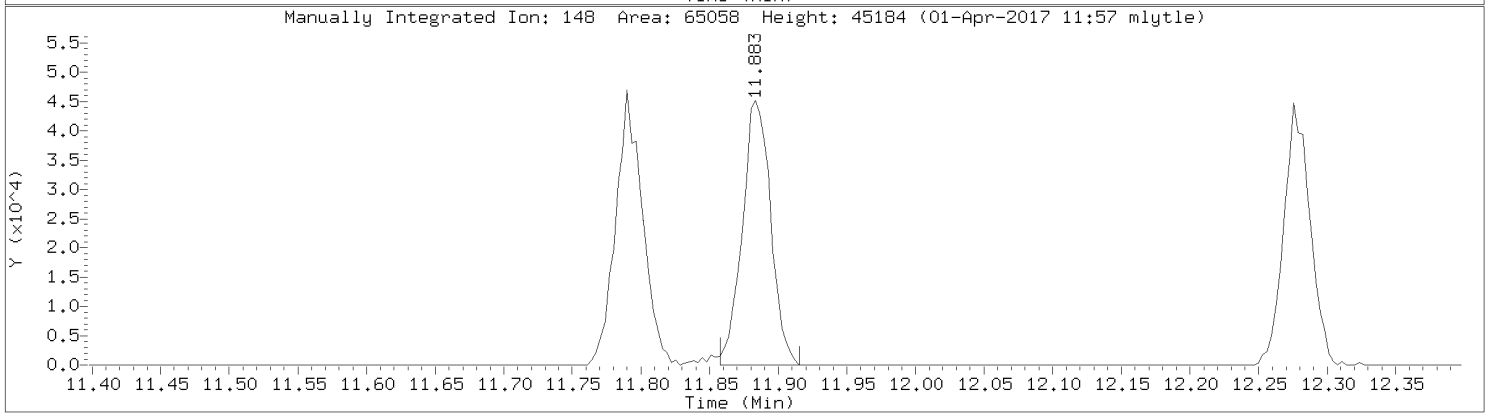
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

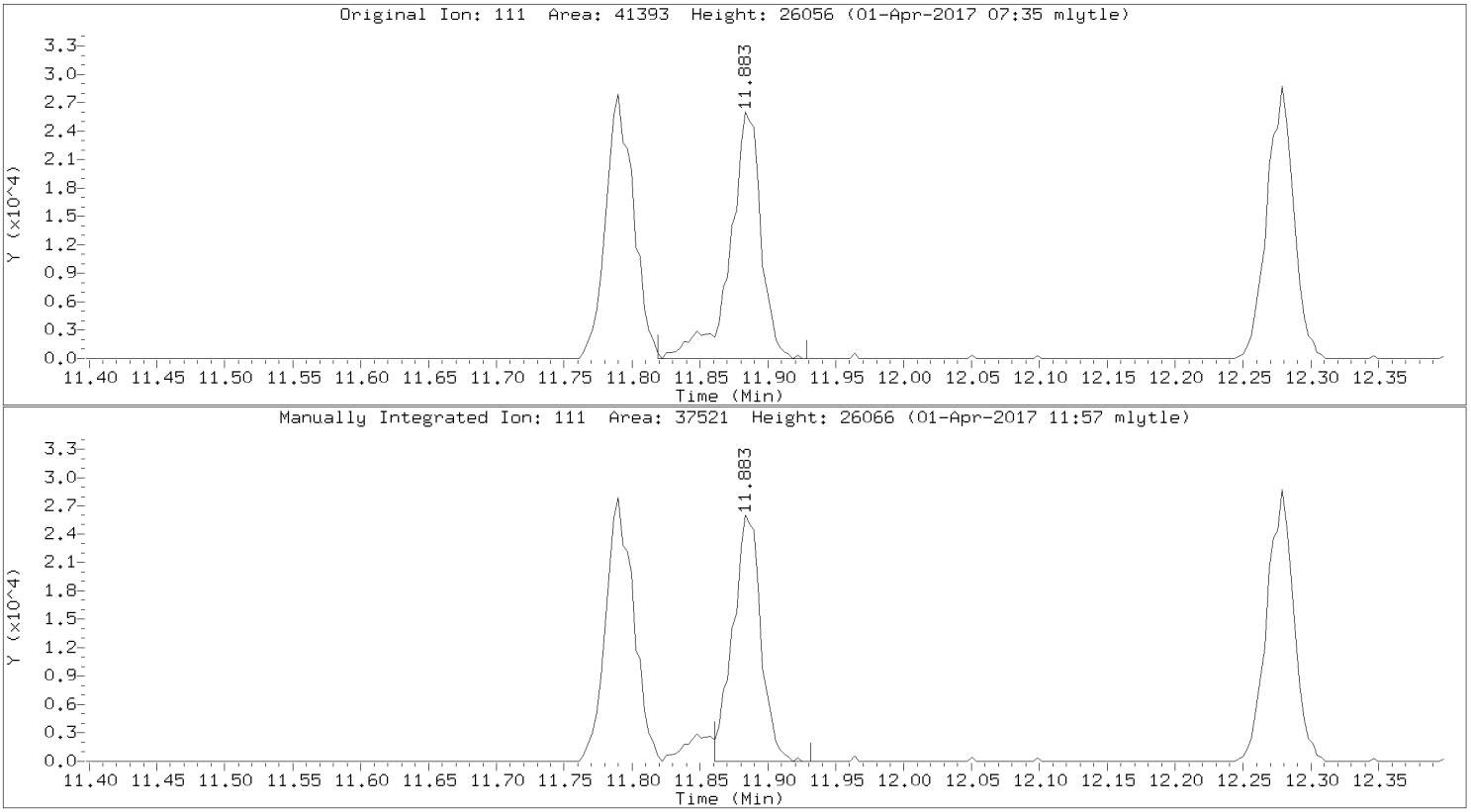






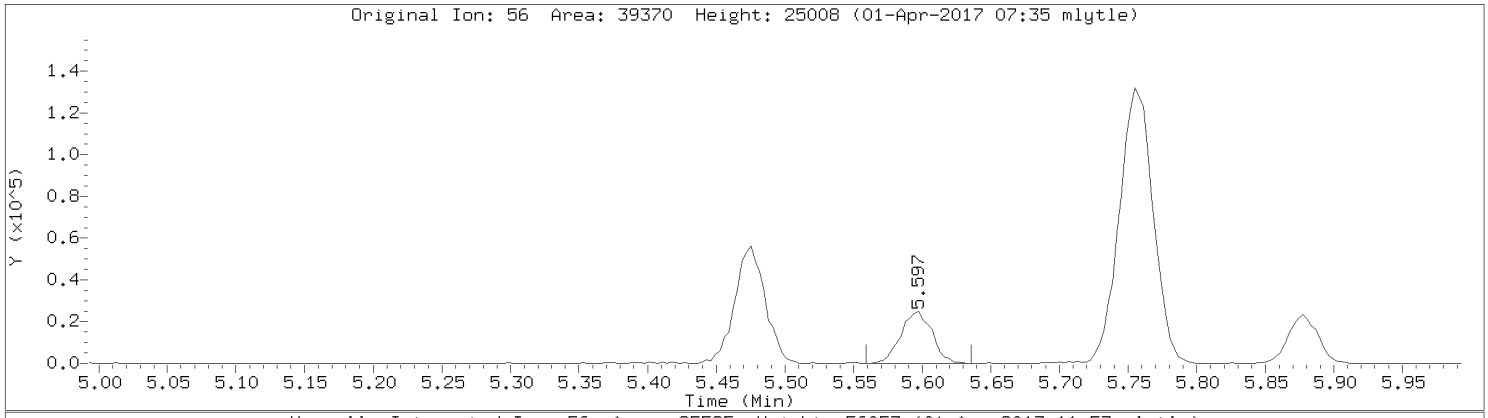


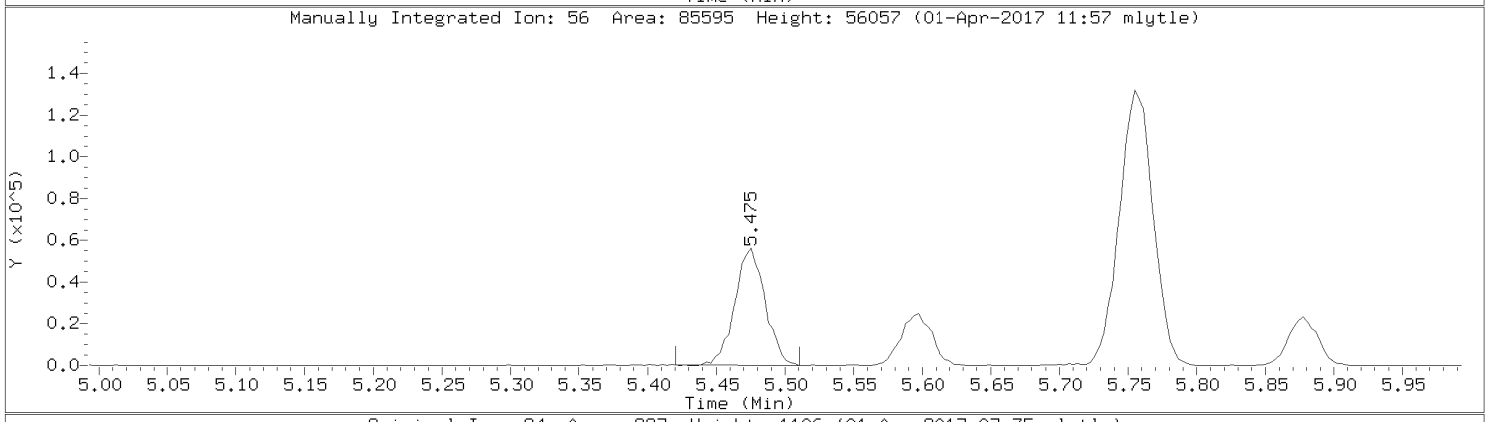
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

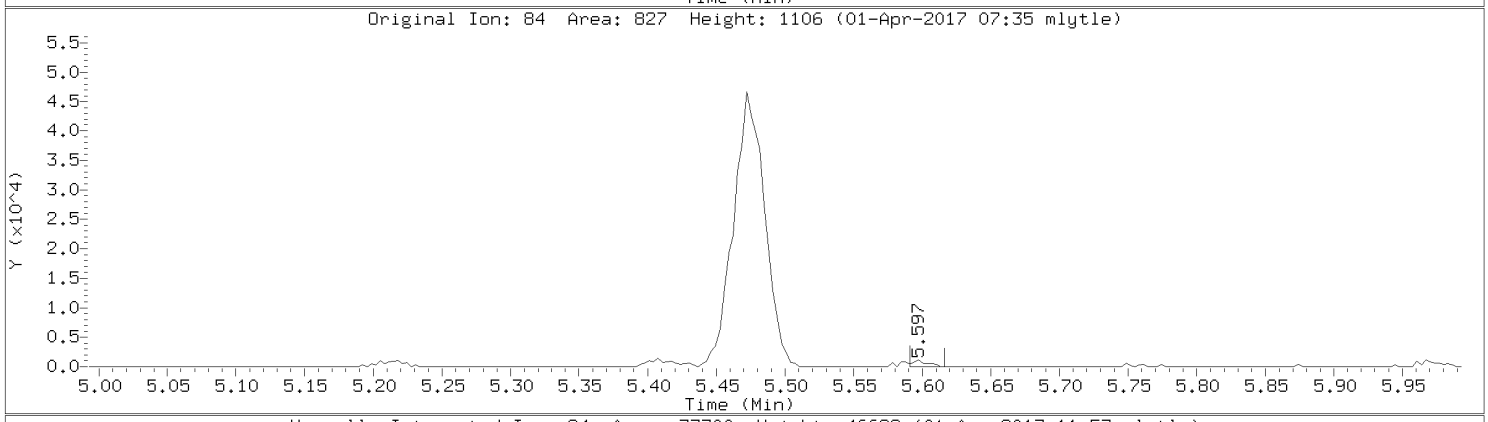


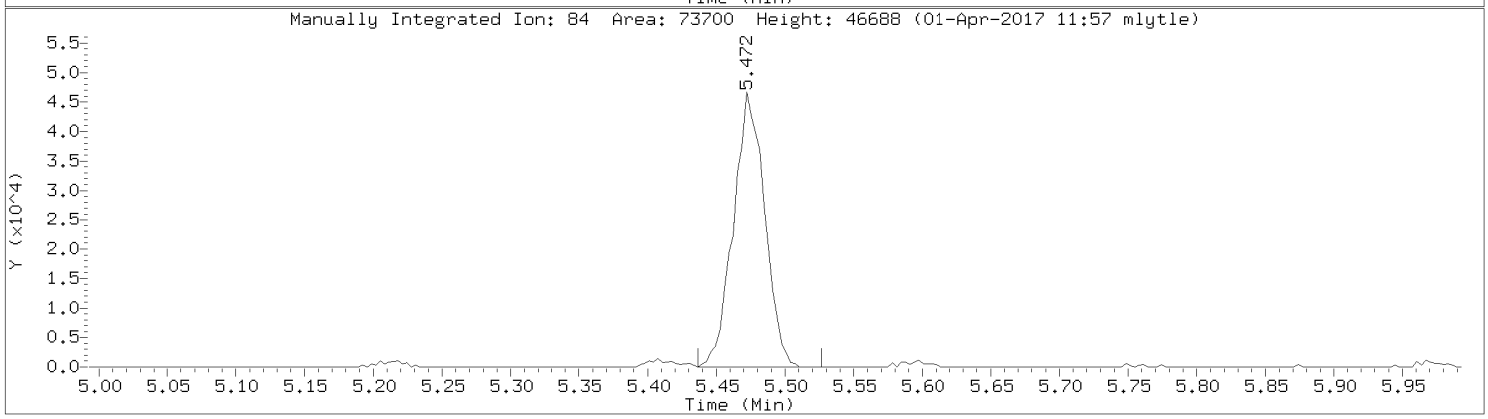
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

Compound: Cyclohexane
CAS Number: 110-82-7

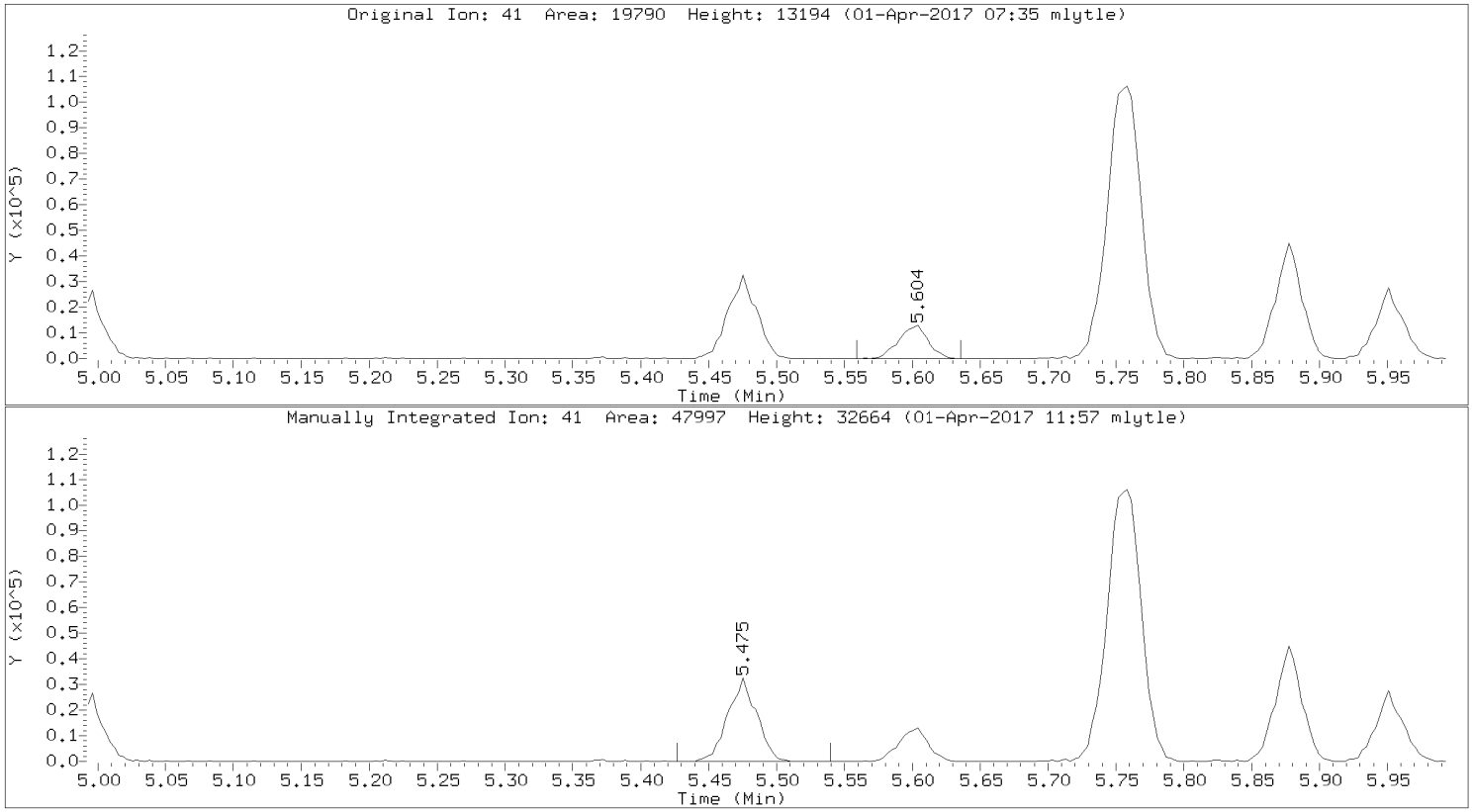






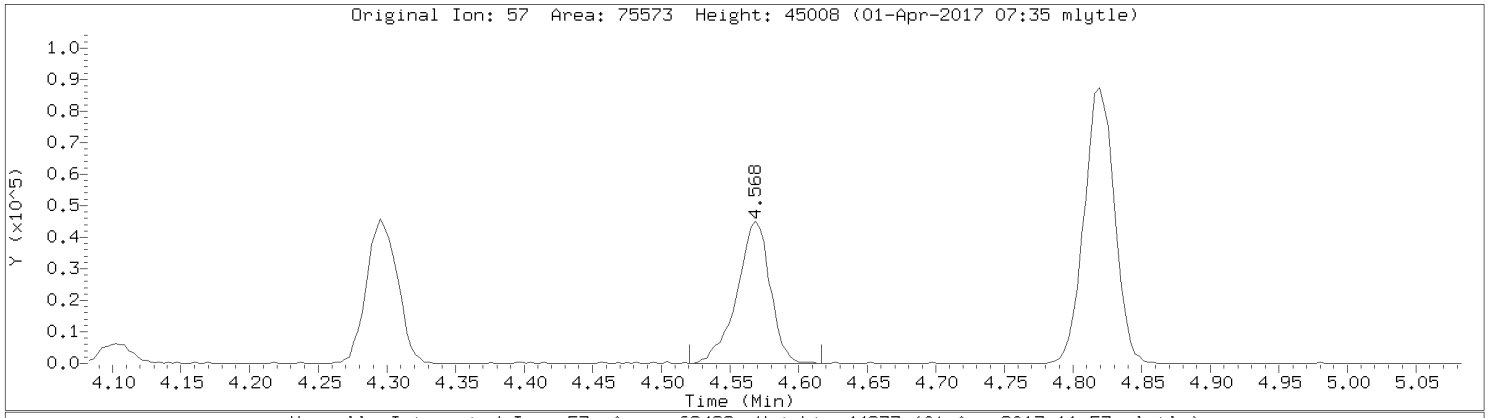


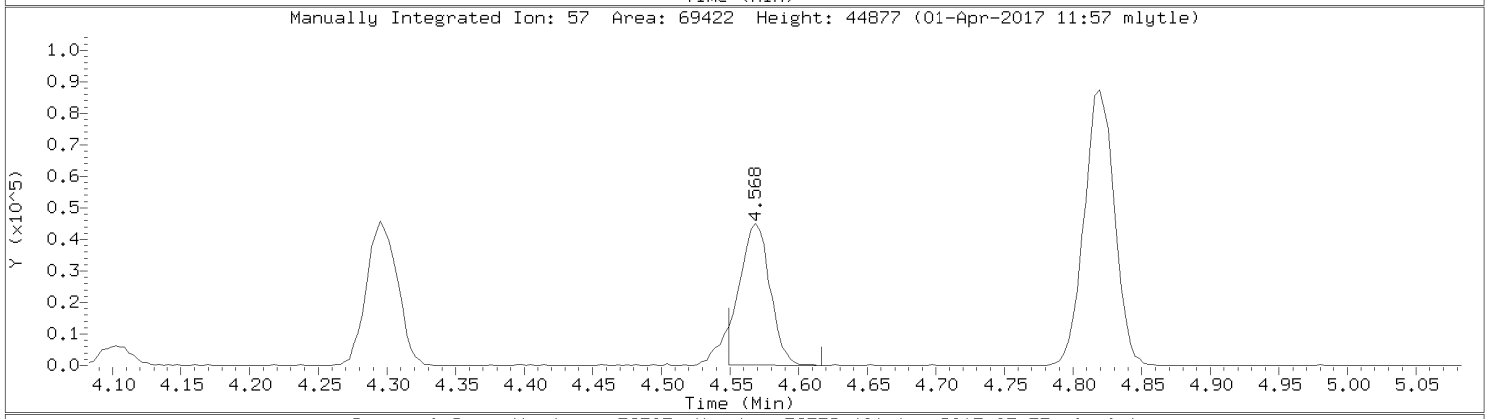
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

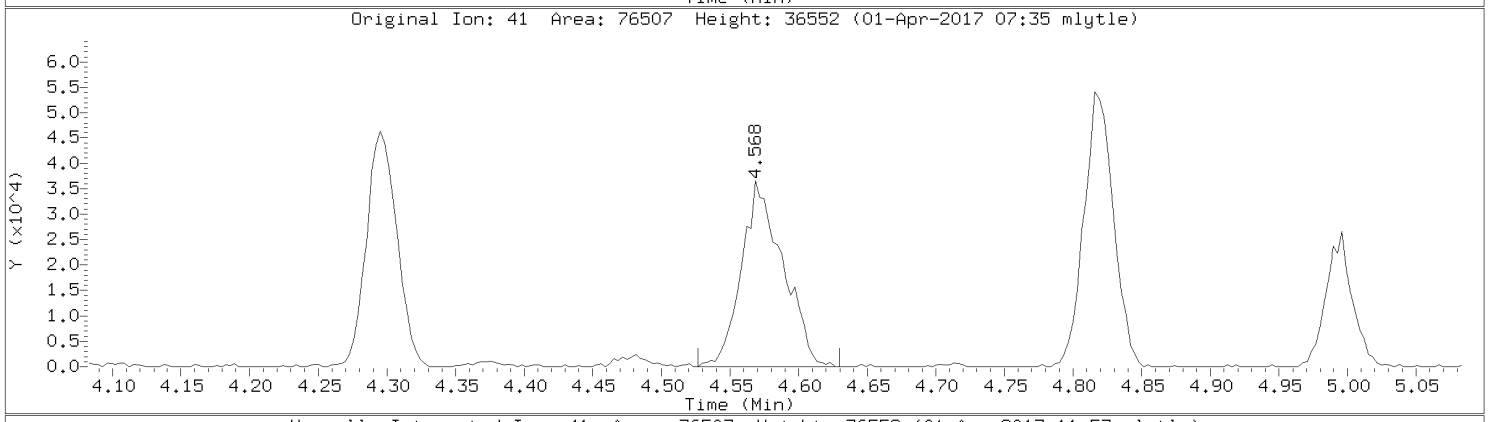


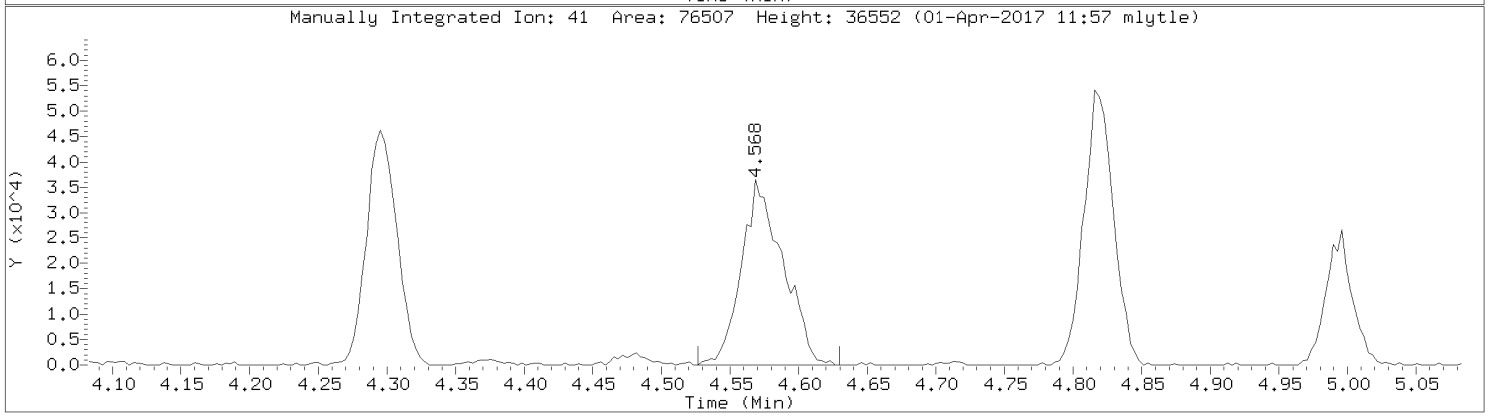
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

Compound: n-Hexane
CAS Number: 110-54-3

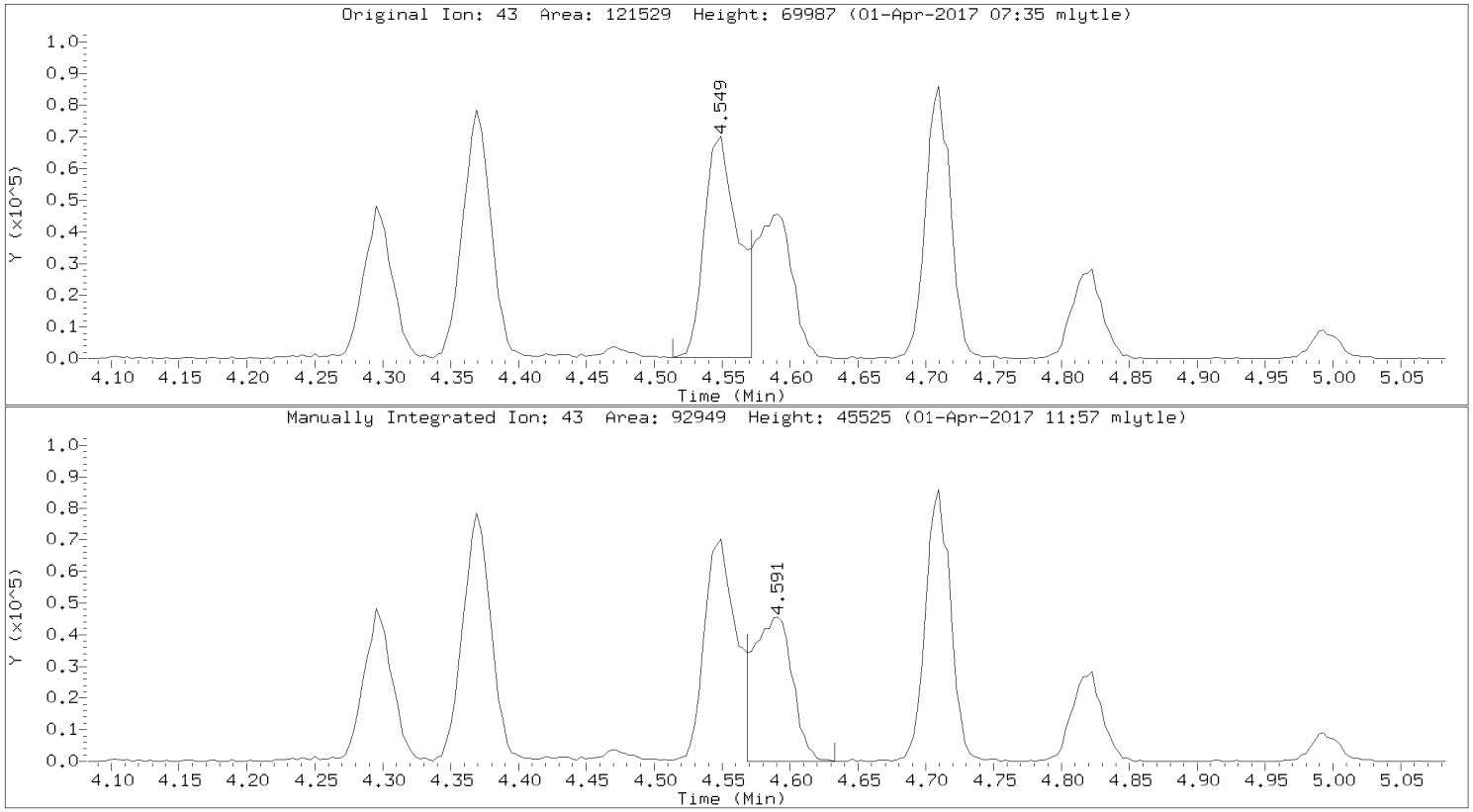






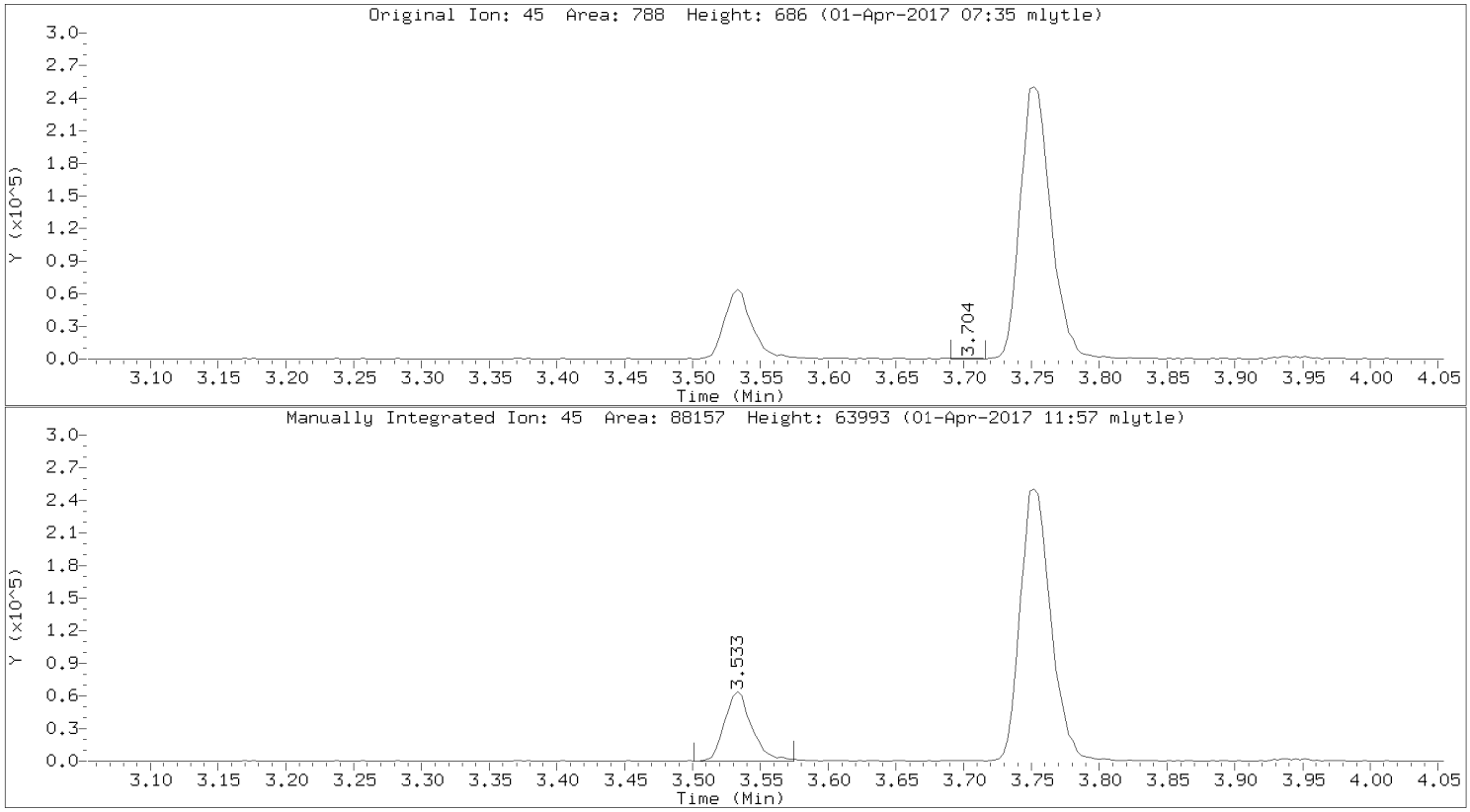


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4



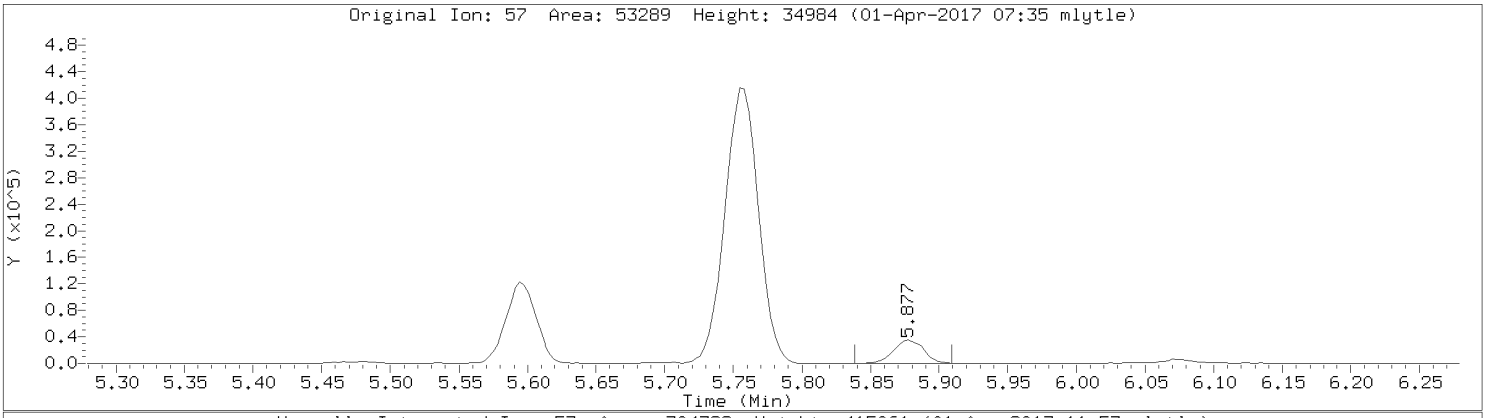
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

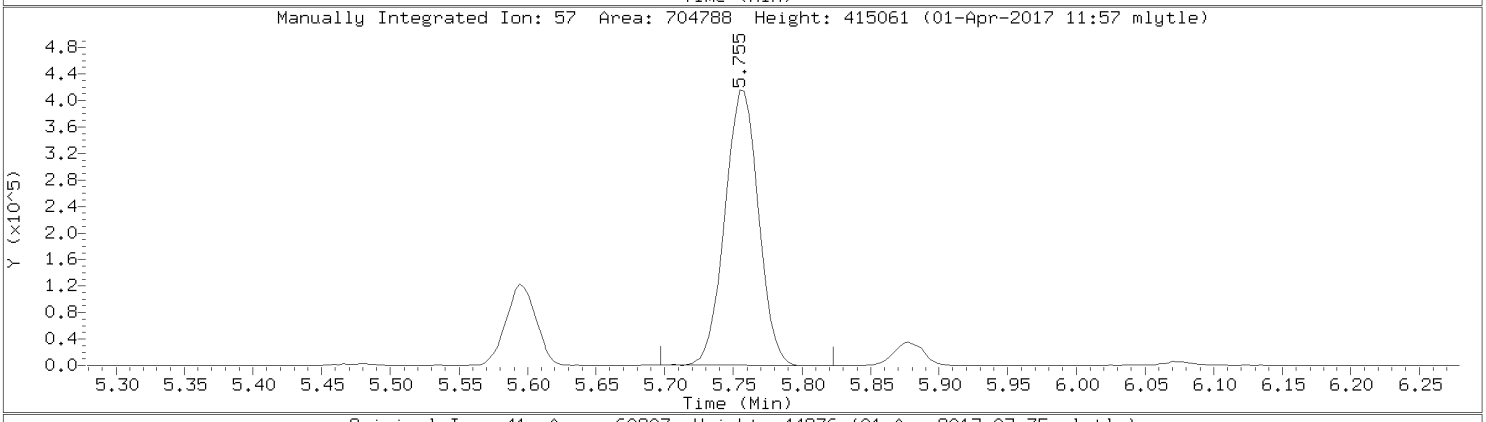
Compound: Ethanol
CAS Number: 64-17-5

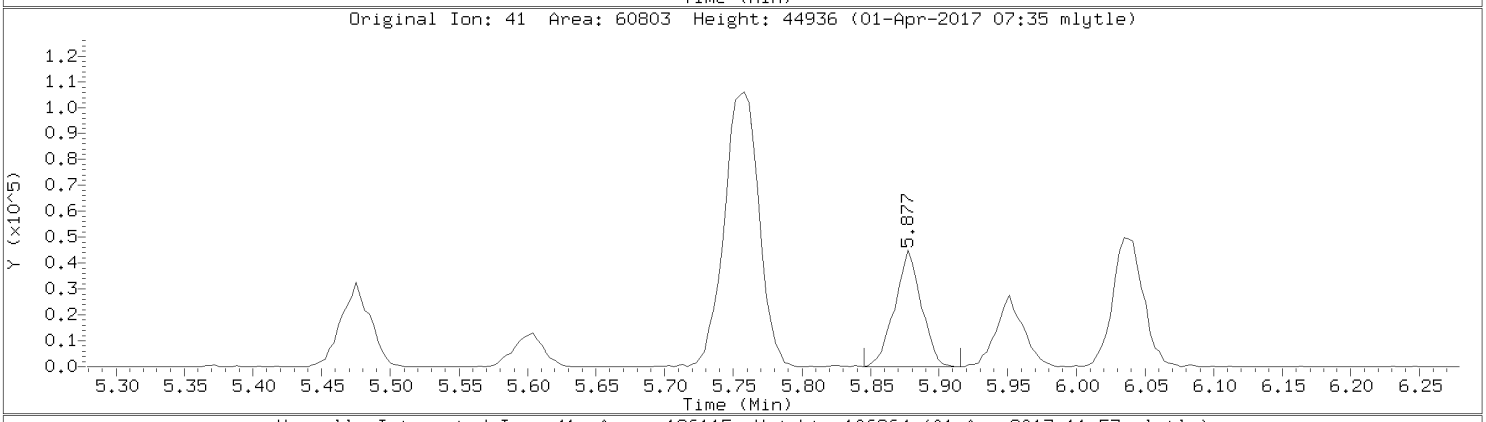


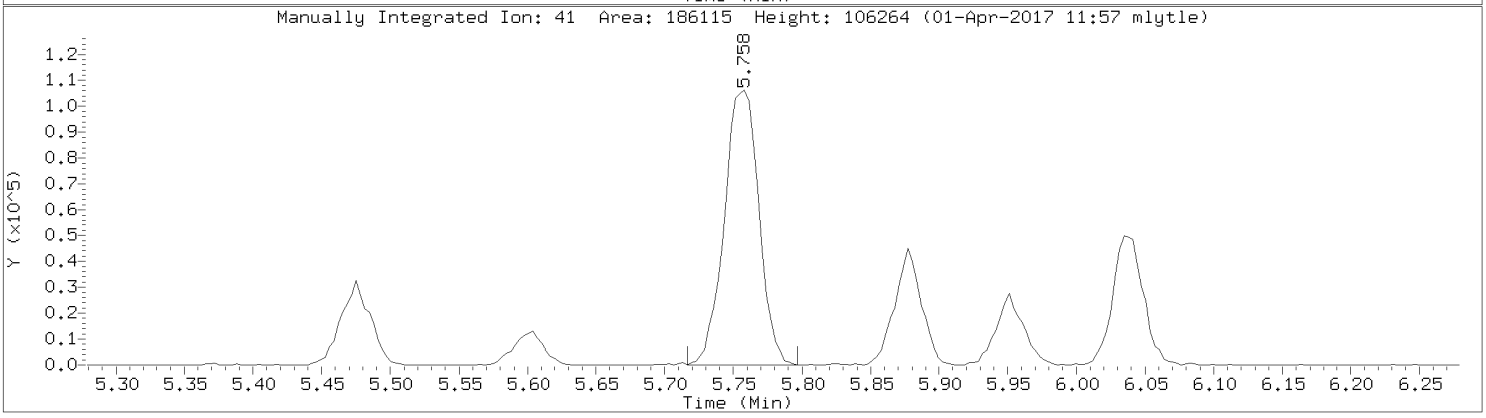
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

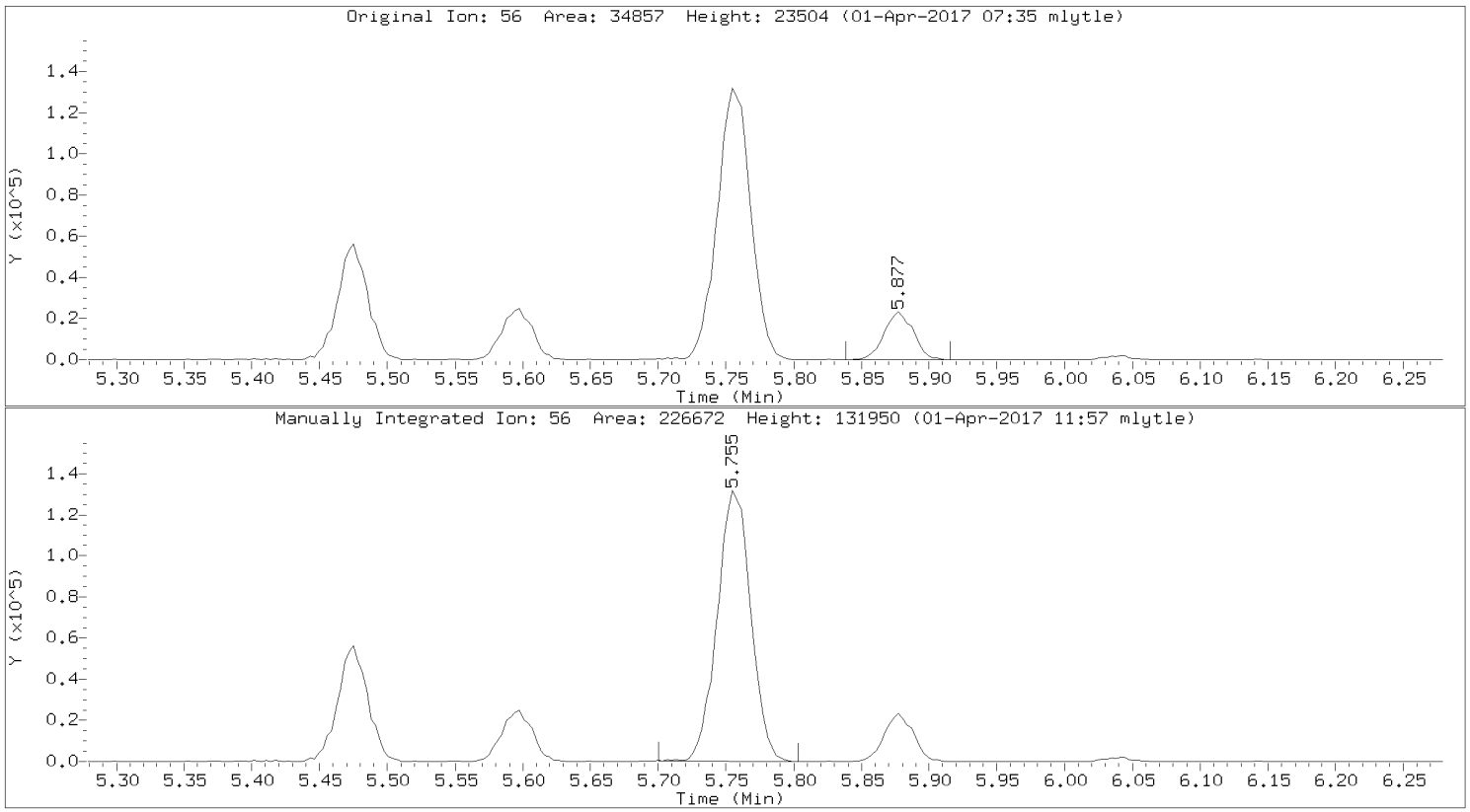






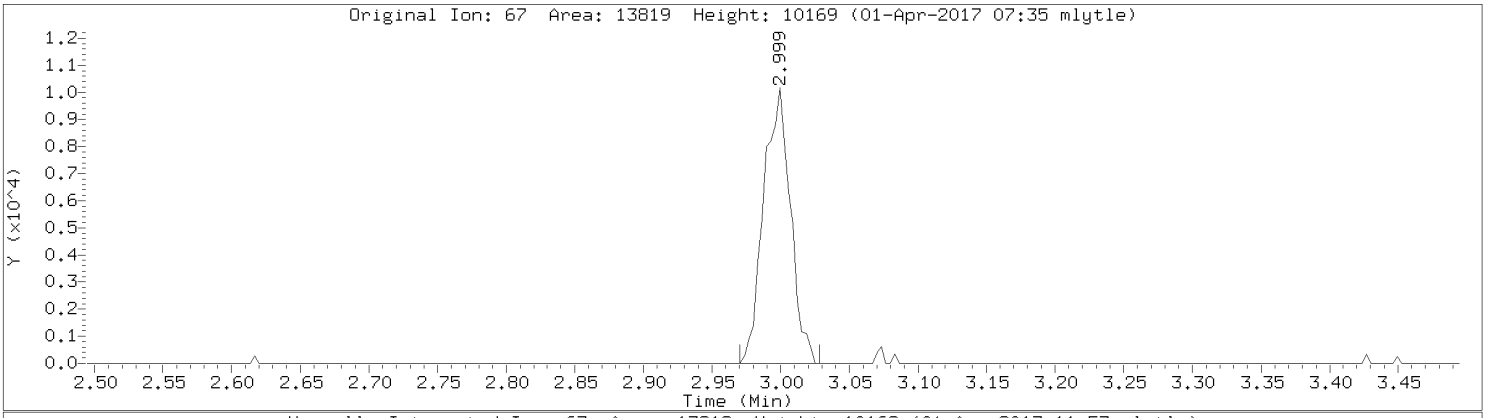


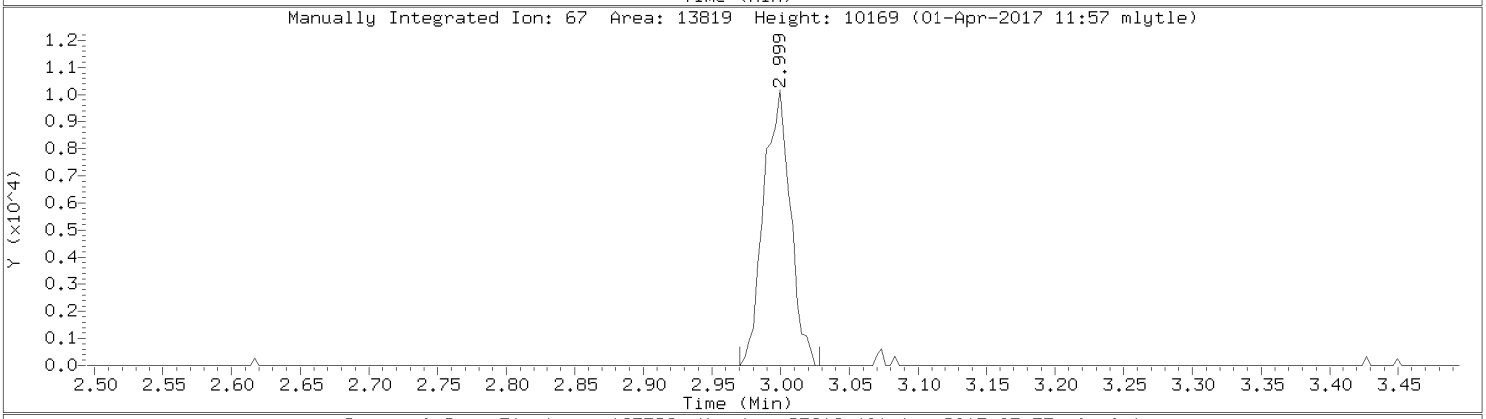
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

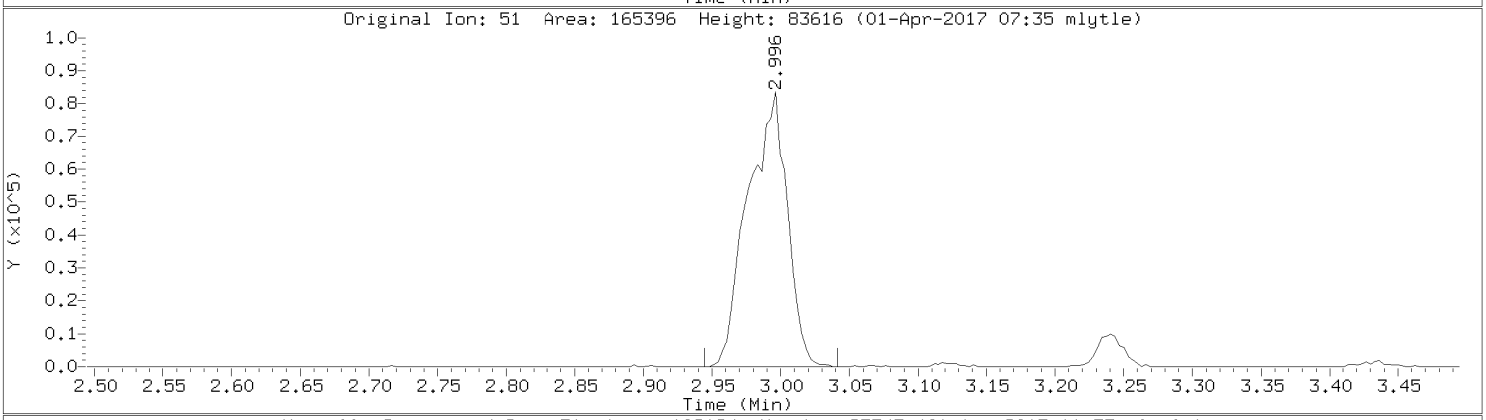


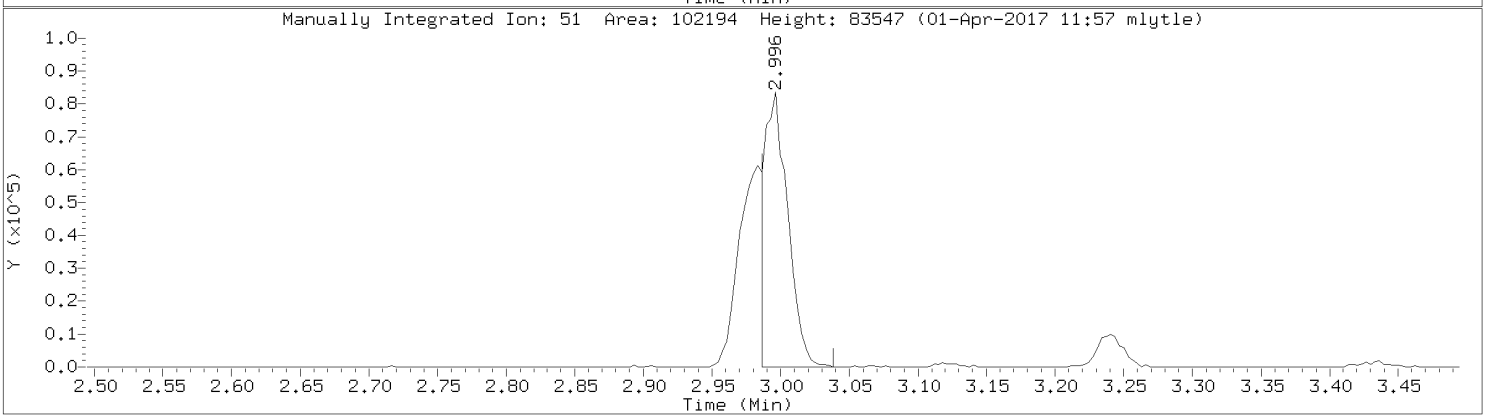
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

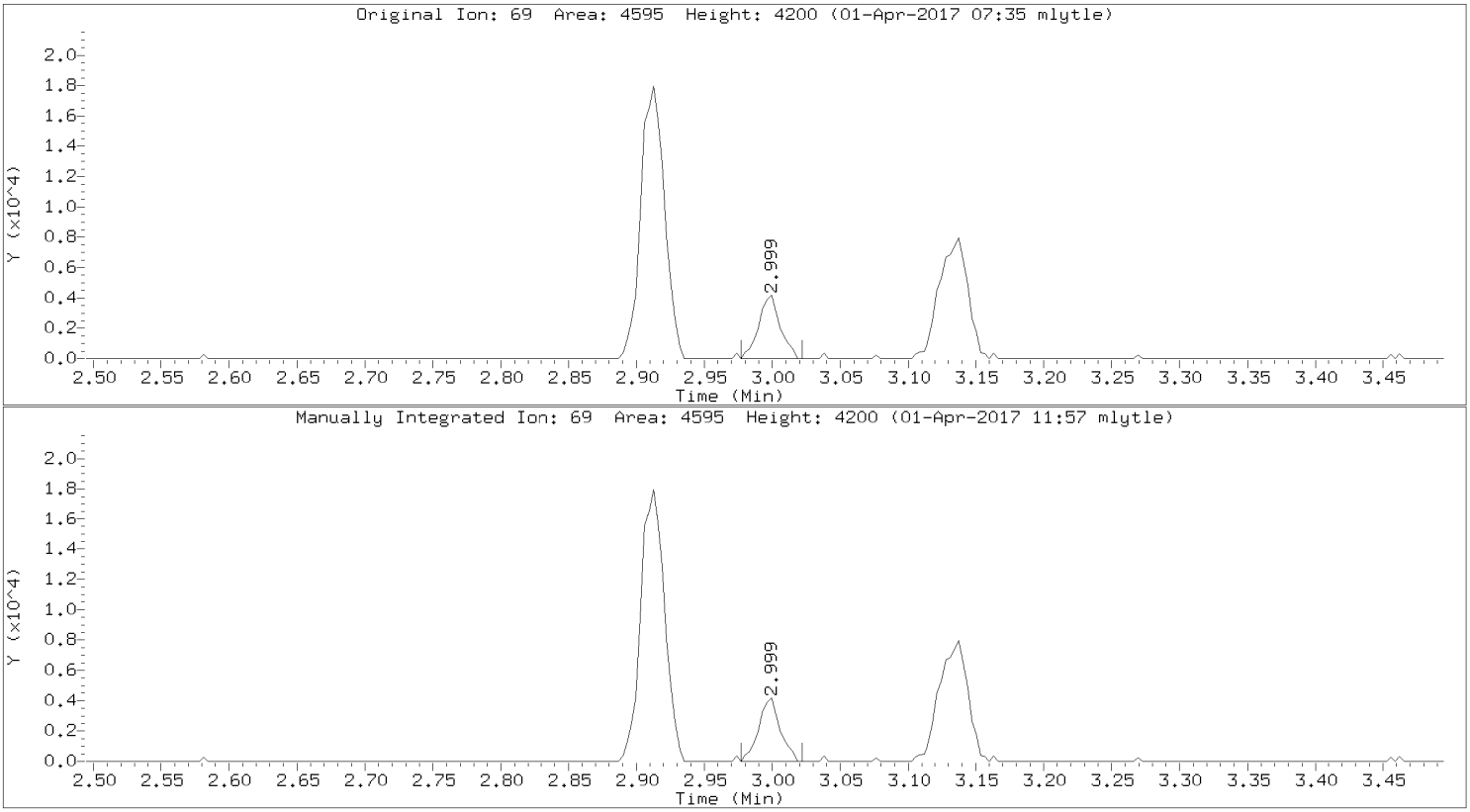






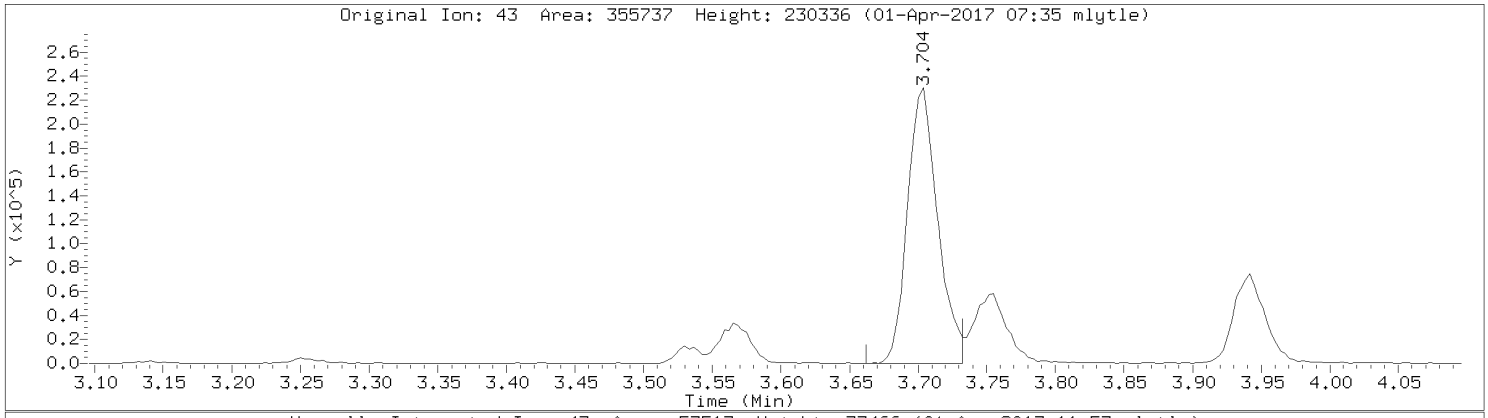


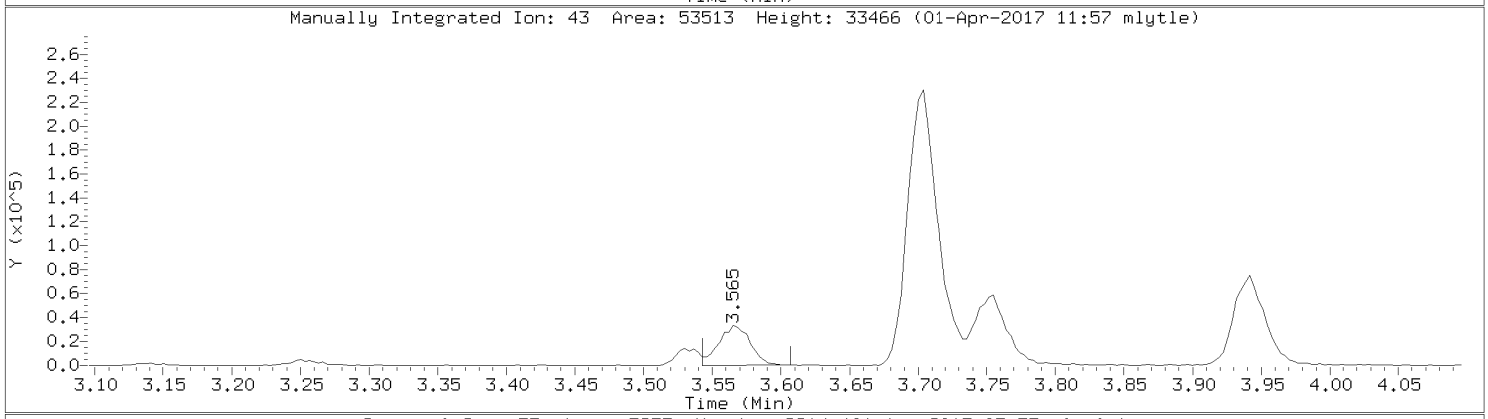
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

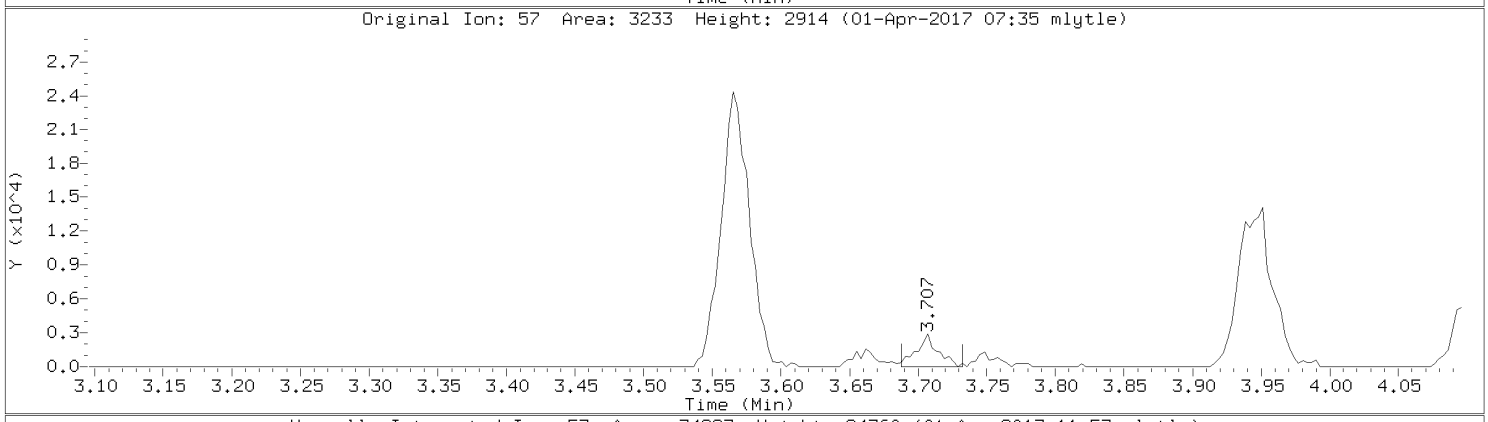


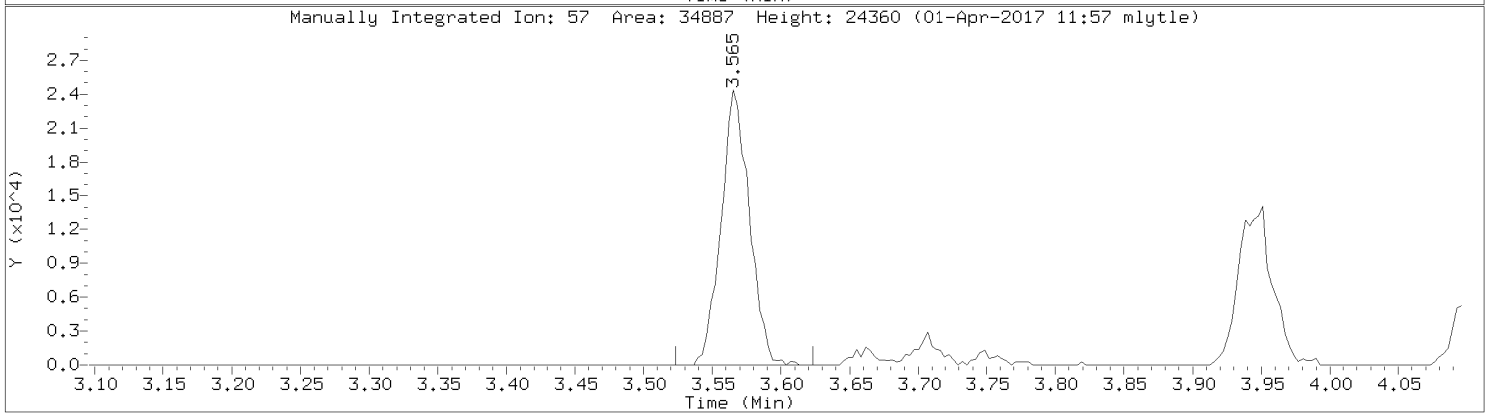
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

Compound: Isopentane
CAS Number: 78-78-4

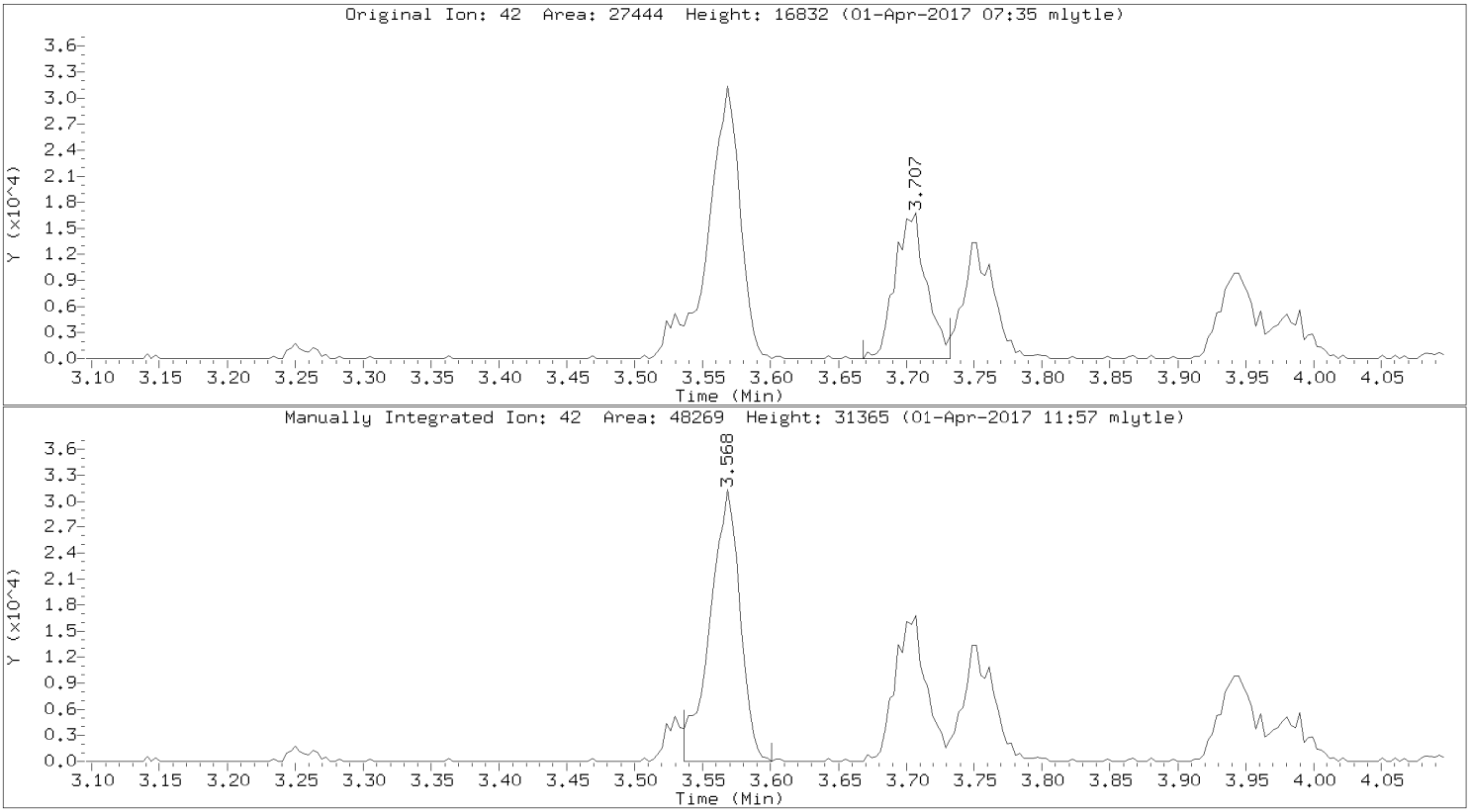






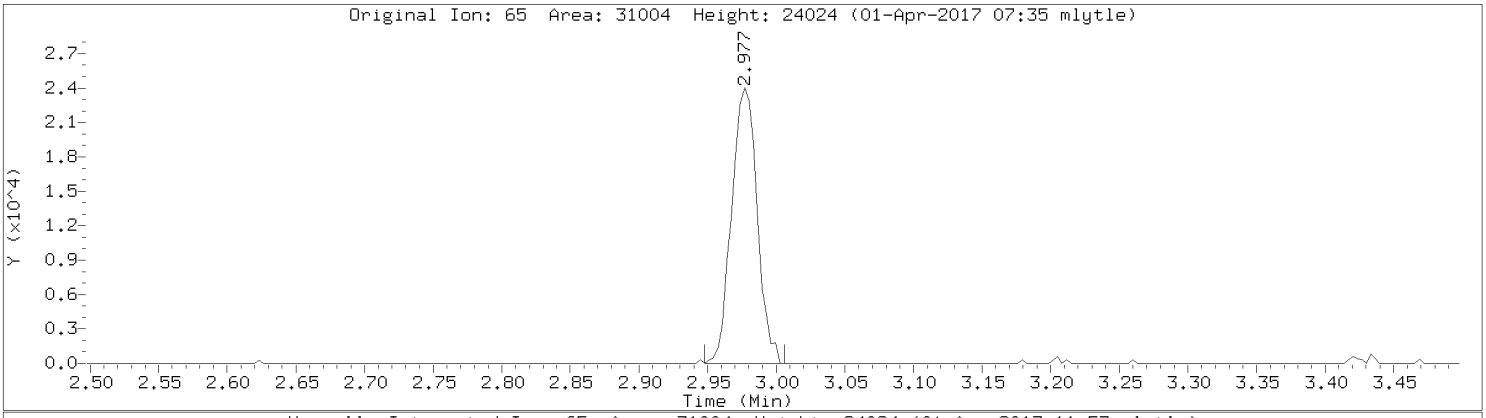


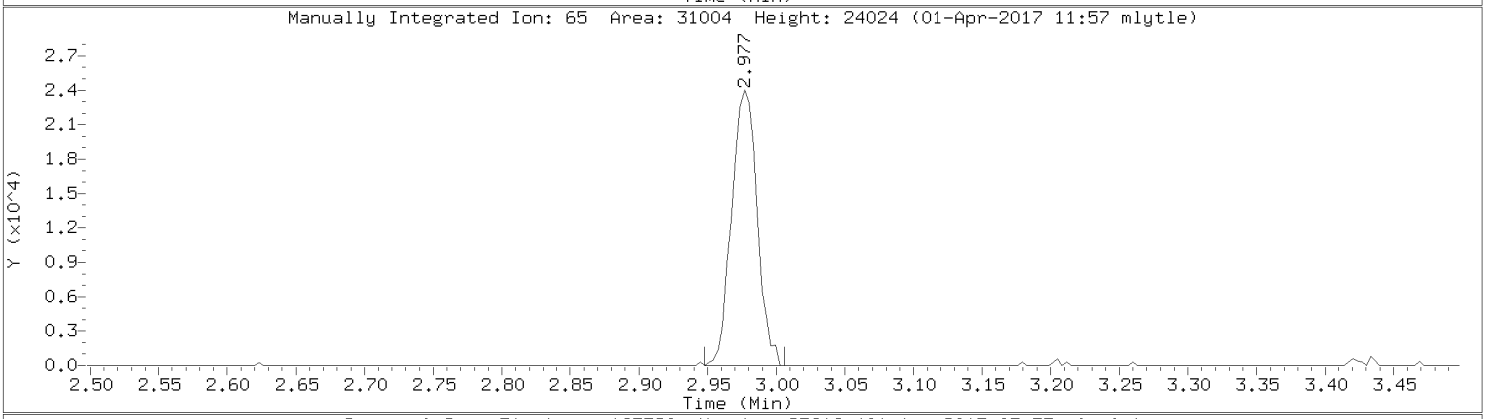
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

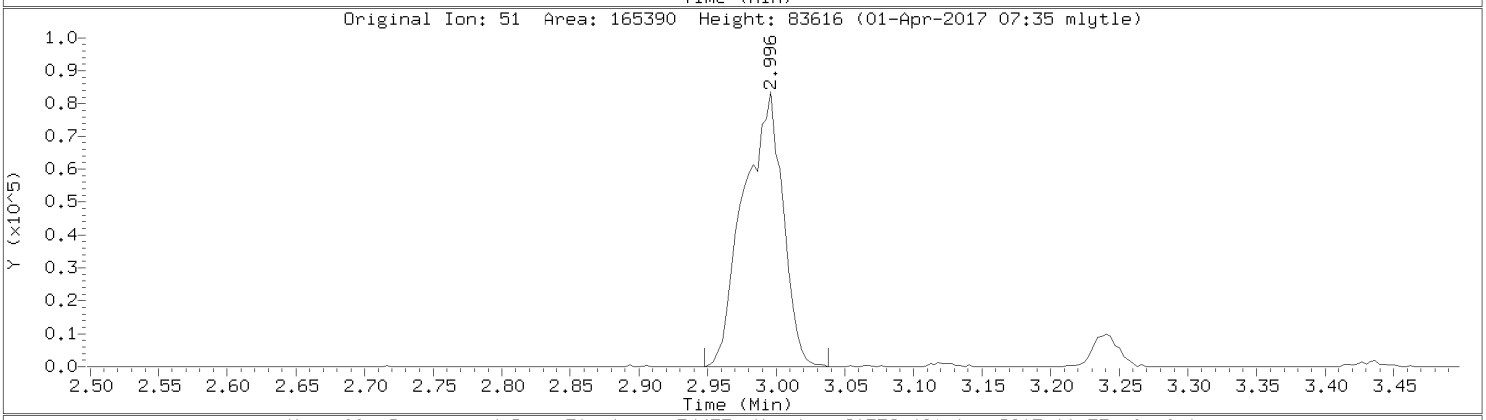


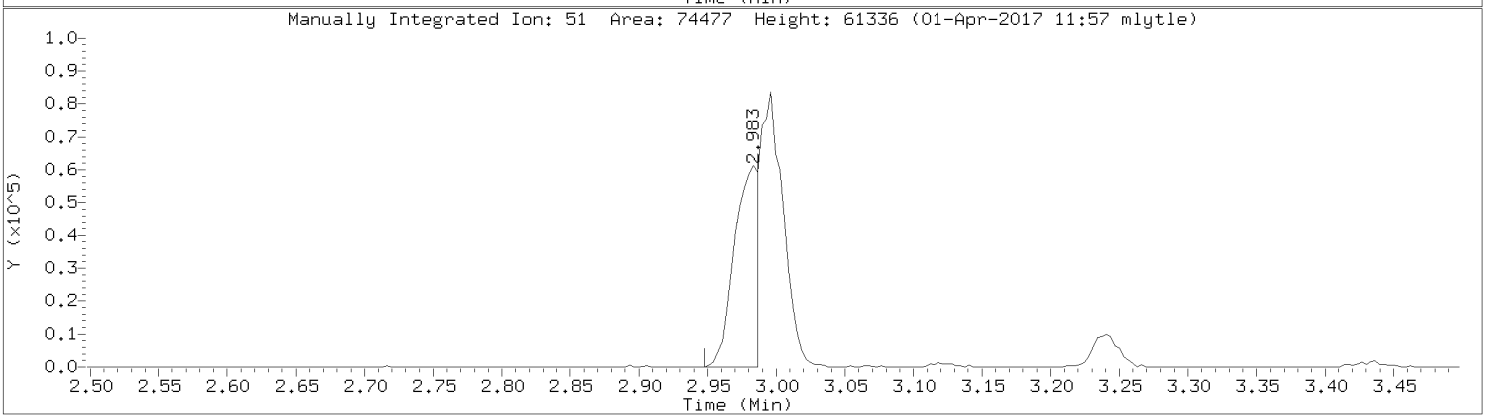
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

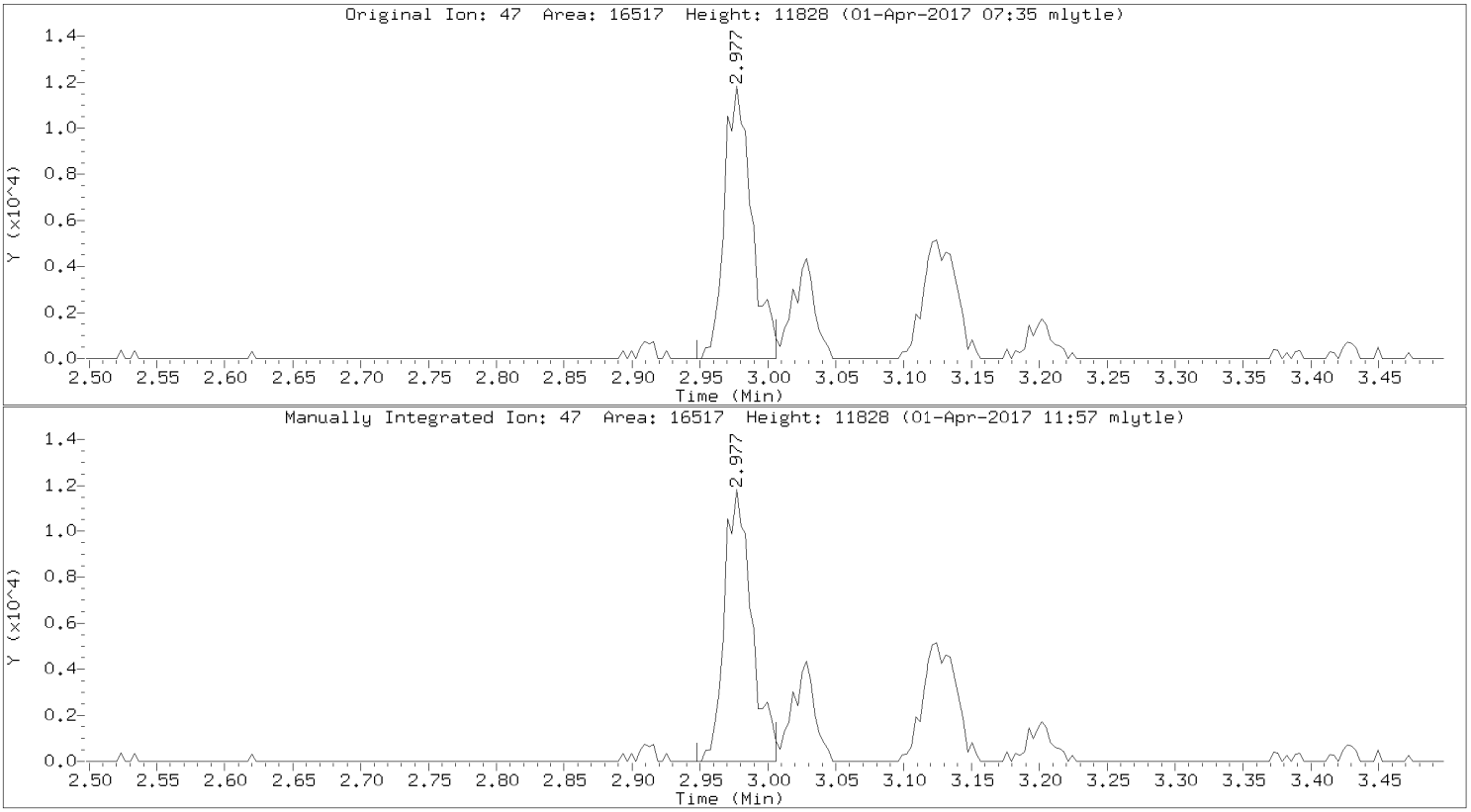






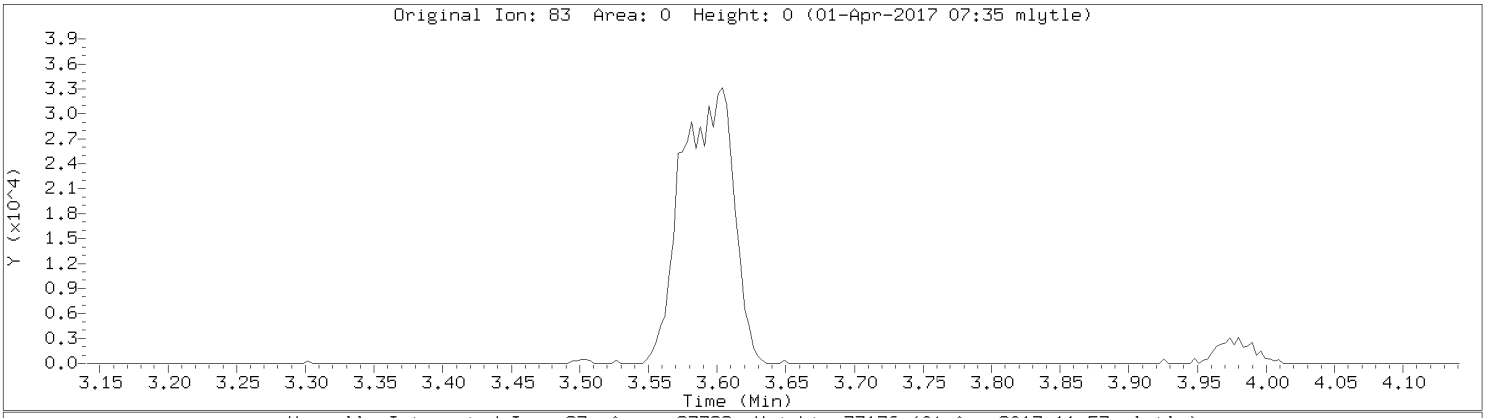


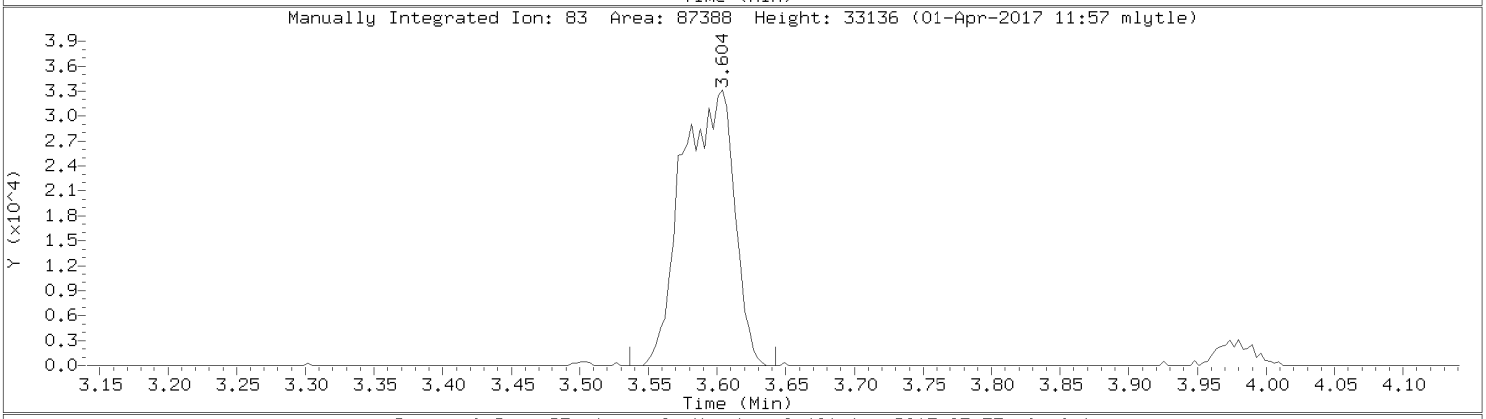
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

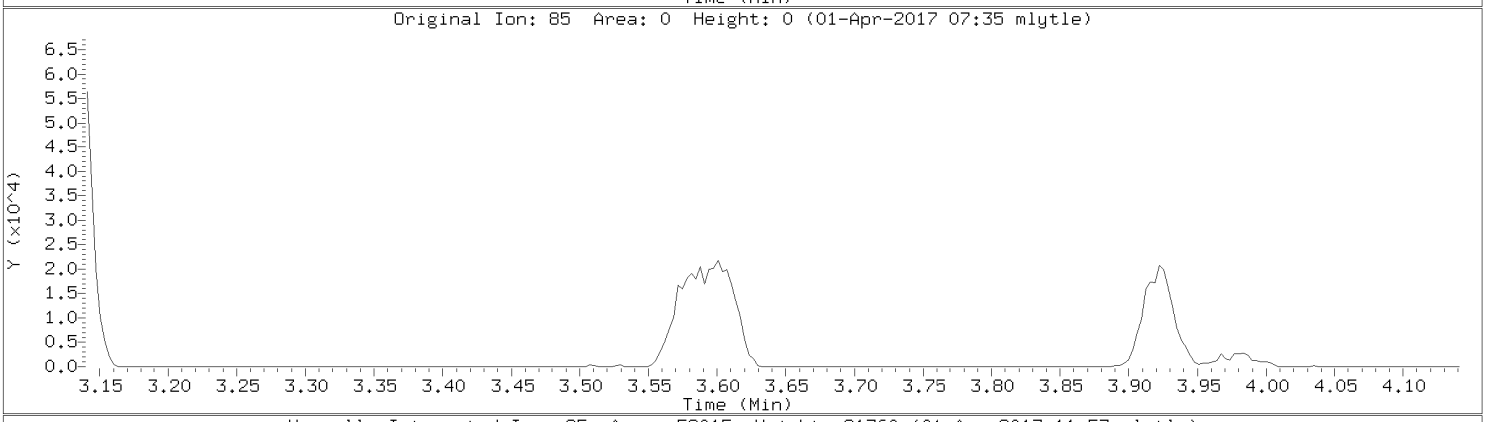


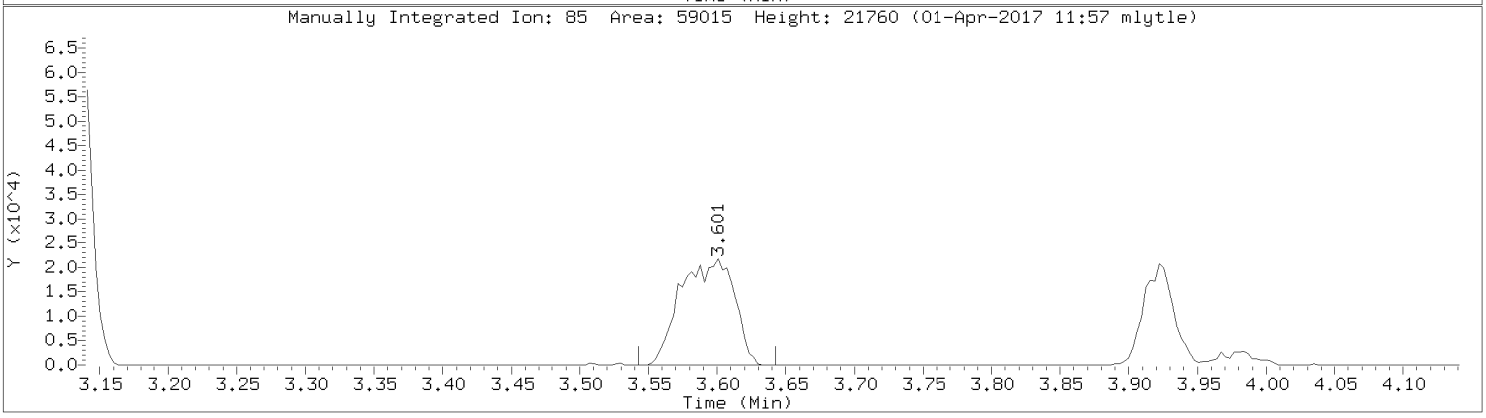
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4

Compound: Freon 123
CAS Number: 306-83-2

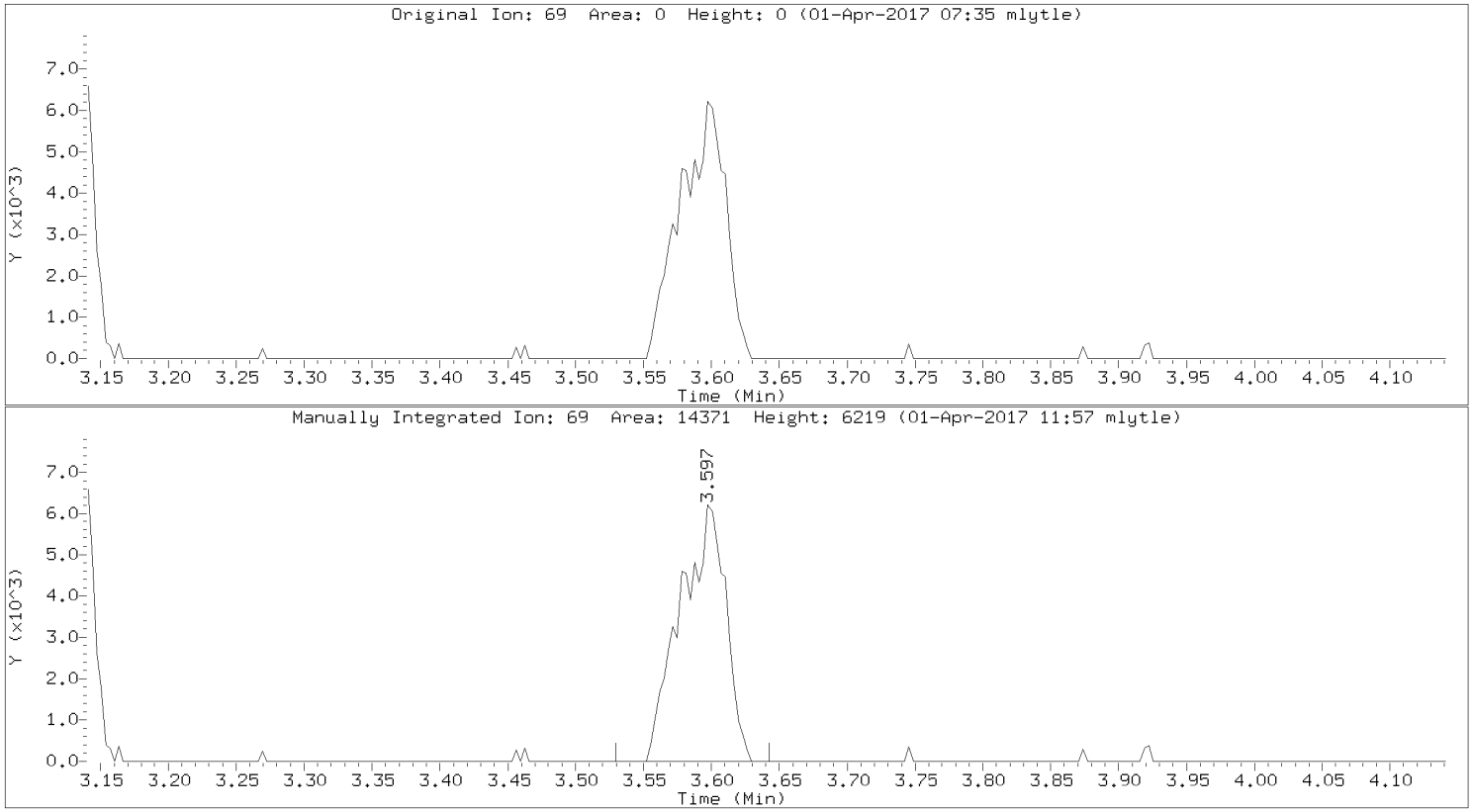








Data File: \\192.168.10.12\chem\10airB.i\033117.b/09005.D
Injection Date: 31-MAR-2017 17:04
Instrument: 10airB.i
Lab Sample ID: CAL4



Data File: \\192.168.10.12\chem\10airB.i\033117.b\09006.D
Report Date: 01-Apr-2017 11:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033117.b\09006.D
Lab Smp Id: CAL5
Inj Date : 31-MAR-2017 17:31
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Meth Date : 01-Apr-2017 11:58 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 17:04 Cal File: 09005.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.912	2.912	(0.519)	390962	10.0000	10.0
2	1,1-Difluoroethane	65	2.989	2.989	(0.533)	295650	10.0000	9.78(Q)
3	Chlorodifluoromethane	67	2.992	2.992	(0.533)	129518	10.0000	9.53(Q)
4	Propylene	41	2.996	2.996	(0.534)	377493	10.0000	9.82
5	Dichlorodifluoromethane	85	3.031	3.031	(0.540)	1291020	10.0000	9.04
6	Chloromethane	50	3.131	3.131	(0.558)	626628	10.0000	10.0
7	Dichlorotetrafluoroethane	85	3.147	3.147	(0.561)	1217073	10.0000	9.82
8	Vinyl chloride	62	3.211	3.211	(0.572)	521271	10.0000	10.6
9	1,3-Butadiene	54	3.256	3.256	(0.580)	400103	10.0000	10.2
10	Bromomethane	94	3.394	3.394	(0.605)	388575	10.0000	10.3
11	Chloroethane	64	3.452	3.452	(0.615)	212574	10.0000	10.2
12	Ethanol	45	3.545	3.545	(0.632)	838501	50.0000	46.8(M)
13	Vinyl Bromide	106	3.568	3.568	(0.636)	376788	10.0000	10.4
14	Isopentane	43	3.590	3.590	(0.640)	519604	10.0000	10.1(M)
15	Freon 123	83	3.632	3.632	(0.648)	854072	10.0000	9.98(M)
16	Trichlorofluoromethane	101	3.664	3.664	(0.653)	992584	10.0000	10.3
17	Acrolein	56	3.680	3.680	(0.656)	444370	25.0000	26.9
18	Acetone	43	3.719	3.719	(0.663)	3362124	50.0000	48.6
19	Isopropyl Alcohol	45	3.767	3.767	(0.672)	3816988	50.0000	48.7
20	1,1-Dichloroethene	61	3.902	3.902	(0.696)	703978	10.0000	10.1
21	Acrylonitrile	53	3.925	3.925	(0.700)	926678	25.0000	25.1
22	Freon 113	101	3.941	3.941	(0.703)	760426	10.0000	9.53
23	Methyl Acetate	43	3.957	3.957	(0.705)	1134919	10.0000	9.80(M)

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09006.D
Report Date: 01-Apr-2017 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.957	(0.705)	2313564	25.0000	24.3
	25 Methylene chloride	49	4.002	4.002	(0.713)	2633518	50.0000	47.6
	26 Allyl Chloride	76	4.015	4.015	(0.716)	381718	25.0000	29.1(Q)
	27 Carbon Disulfide	76	4.118	4.118	(0.734)	885369	10.0000	10.4
	28 trans-1,2-dichloroethene	96	4.275	4.275	(0.762)	373648	10.0000	9.82
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.767)	2378486	25.0000	24.0
	30 Vinyl Acetate	43	4.388	4.388	(0.782)	1247152	10.0000	10.2
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	757586	10.0000	10.2(H)
$	32 Hexane-d14(S)	66	4.481	4.481	(0.799)	726183	10.0000	9.94
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	176190	10.0000	9.01(QM)
	34 n-Hexane	57	4.578	4.578	(0.816)	694739	10.0000	9.34(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.820)	1488051	10.0000	9.52
	36 Ethyl Acetate	43	4.716	4.716	(0.841)	972779	10.0000	9.37
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	413972	10.0000	9.87
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.861)	3484331	25.0000	23.8
	39 Chloroform	83	4.841	4.841	(0.863)	817424	10.0000	10.4
	40 Tetrahydrofuran	42	4.992	4.992	(0.890)	585771	10.0000	9.67
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	1054086	10.0000	10.4
	42 1,2-Dichloroethane	62	5.237	5.237	(0.934)	832373	10.0000	9.99
	43 Benzene	78	5.465	5.465	(0.974)	1454031	10.0000	9.96
	44 Carbon tetrachloride	117	5.484	5.484	(0.978)	1103845	10.0000	10.8
	45 Cyclohexane	56	5.487	5.487	(0.978)	834968	10.0000	9.93(M)
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.999)	1346465	10.0000	8.54
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	1936758	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.029)	6472696	25.0000	25.2(M)
	49 Heptane	43	5.889	5.889	(1.050)	971667	10.0000	9.68
	50 1,2-Dichloropropane	63	5.967	5.967	(1.064)	595833	10.0000	9.97
	51 Trichloroethene	130	5.989	5.989	(1.068)	758907	10.0000	9.66
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	509858	10.0000	9.66
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	347243	10.0000	9.64
	54 Bromodichloromethane	83	6.086	6.086	(1.085)	1098807	10.0000	10.7
	55 Methylcyclohexane	98	6.433	6.433	(1.147)	426476	10.0000	10.2
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.164)	3368931	25.0000	24.6
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	869998	10.0000	10.8
	58 trans-1,3-Dichloropropene	75	6.983	6.983	(1.245)	826866	10.0000	11.7(H)
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1638219	10.0000	10.1(H)
	60 1,1,2-Trichloroethane	97	7.147	7.147	(1.274)	620078	10.0000	9.74
	61 Toluene	91	7.153	7.153	(1.275)	1815834	10.0000	9.67
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	3071655	25.0000	26.0
	63 n-Octane	43	7.581	7.581	(0.877)	1332835	10.0000	9.97
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	1215650	10.0000	10.7
	65 1,2-Dibromoethane	107	7.905	7.905	(0.915)	1068876	10.0000	10.2
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	965969	10.0000	9.29
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	1173864	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	1540335	10.0000	9.56
	69 Ethyl Benzene	91	8.934	8.934	(1.034)	2446533	10.0000	9.81
	70 m&p-Xylene	91	9.082	9.082	(1.051)	3737030	20.0000	19.8
	71 n-Nonane	43	9.471	9.471	(1.096)	1268147	10.0000	10.3
	72 Bromoform	173	9.481	9.481	(1.097)	1016954	10.0000	11.9
	73 Styrene	104	9.507	9.507	(1.100)	1453646	10.0000	10.3
	74 o-Xylene	91	9.581	9.581	(1.109)	1906230	10.0000	9.71
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1142461	10.0000	10.3
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	2694457	10.0000	9.81
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	3073557	10.0000	10.9

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09006.D
Report Date: 01-Apr-2017 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.263)	2627276	10.0000	11.0
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	2226168	10.0000	10.4
80	n-Decane	57	11.378	11.378	(2.028)	1401341	10.0000	11.4
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2296707	10.0000	10.3
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	2056599	10.0000	10.7
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.365)	1281482	10.0000	11.3
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	2917303	10.0000	10.5
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.372)	608657	10.0000	11.5
86	Benzyl Chloride	91	11.863	11.863	(1.373)	1234809	10.0000	10.0(M)
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.376)	1279786	10.0000	11.6
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	2499275	10.0000	10.7
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	2022373	10.0000	10.6
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	1216986	10.0000	11.4
91	N-Butylbenzene	91	12.461	12.461	(1.442)	1986872	10.0000	11.9
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	423435	10.0000	9.90
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.624)	349267	10.0000	9.80
94	Naphthalene	128	14.166	14.166	(1.639)	976344	10.0000	9.39
95	Hexachlorobutadiene	225	14.410	14.410	(1.667)	439951	10.0000	10.7

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09006.D
Report Date: 01-Apr-2017 11:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09006.D
Lab Smp Id: CAL5
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Misc Info:

Calibration Date: 31-MAR-2017
Calibration Time: 17:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

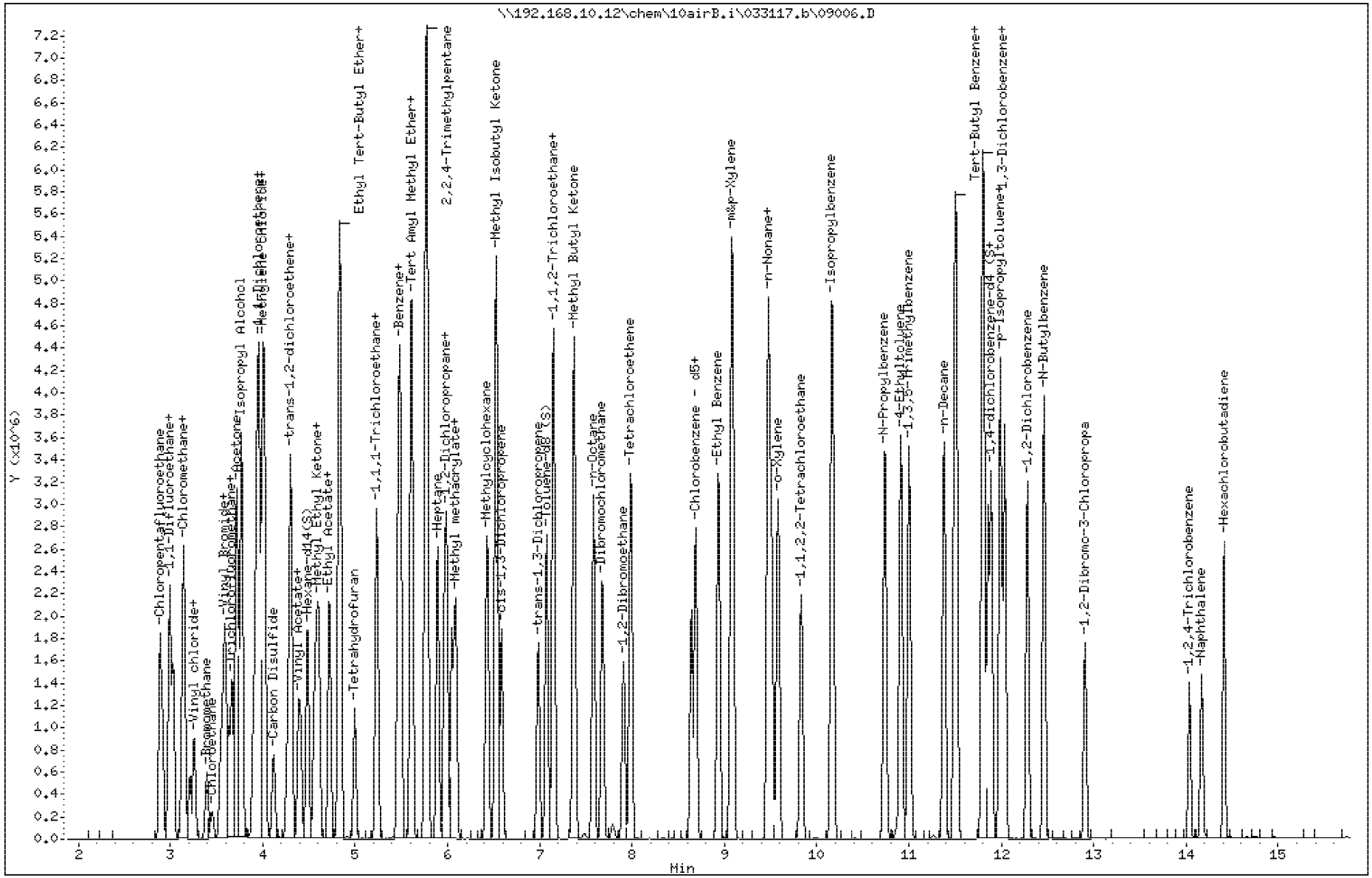
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1936758	0.00
67 Chlorobenzene - d	1173864	704318	1643410	1173864	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

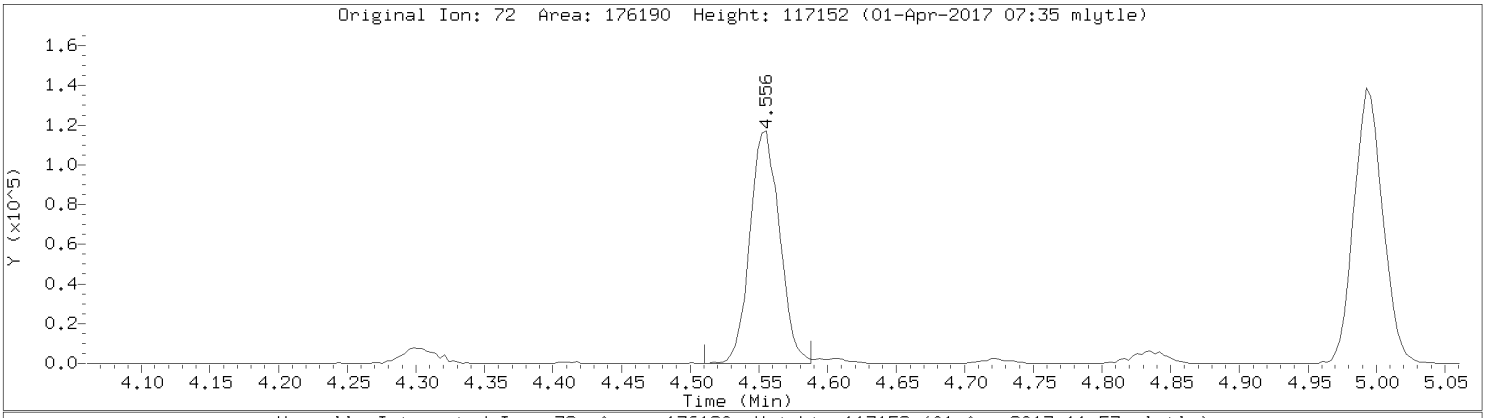
Data File: \\192.168.10.12\chem\10airB.i\033117.b\09006.D
Date : 31-MAR-2017 17:31
Client ID:
Sample Info:

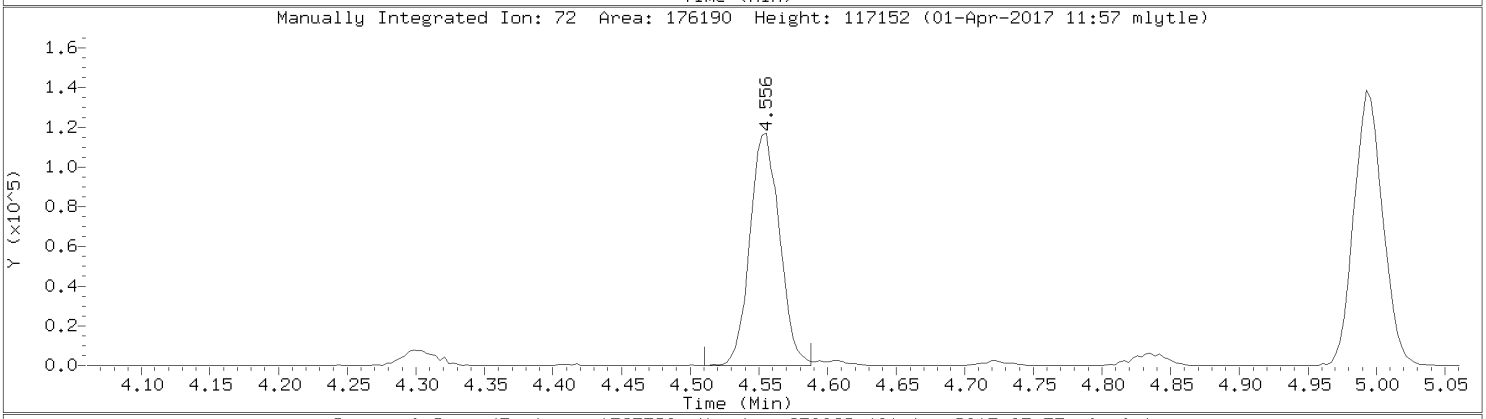
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

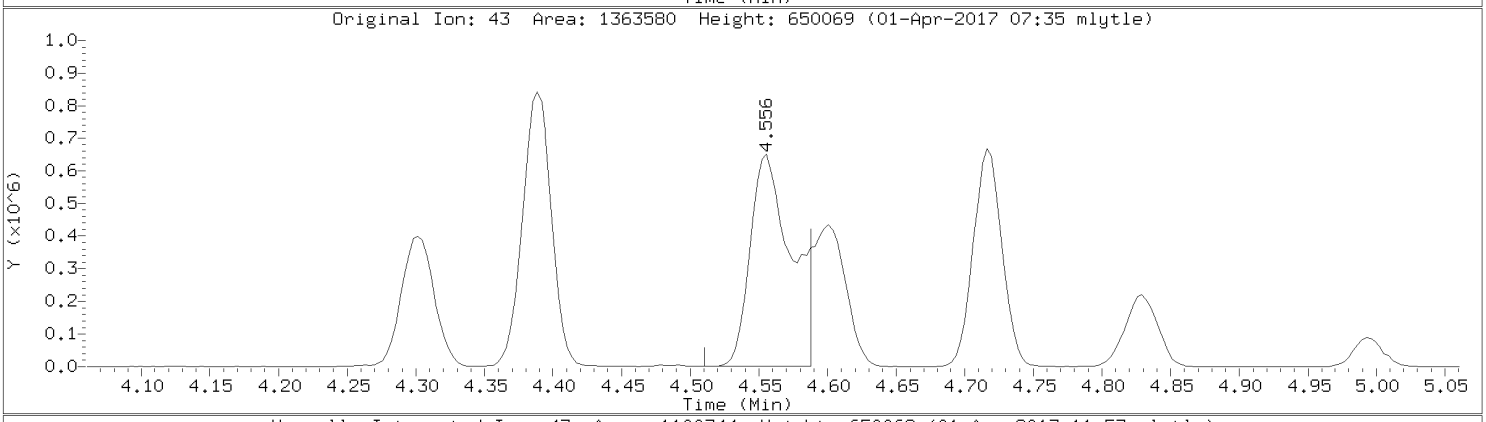


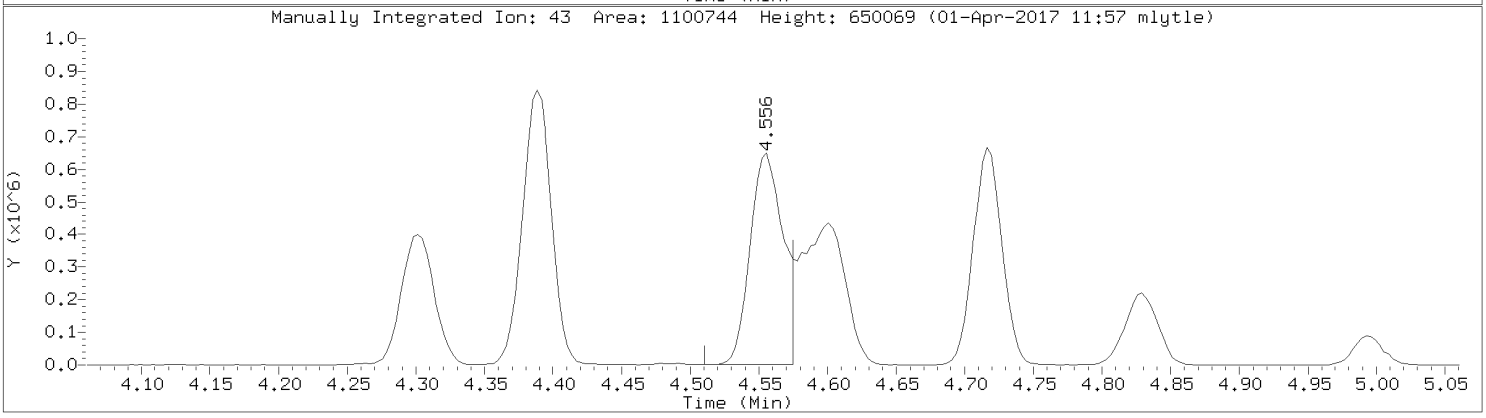
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



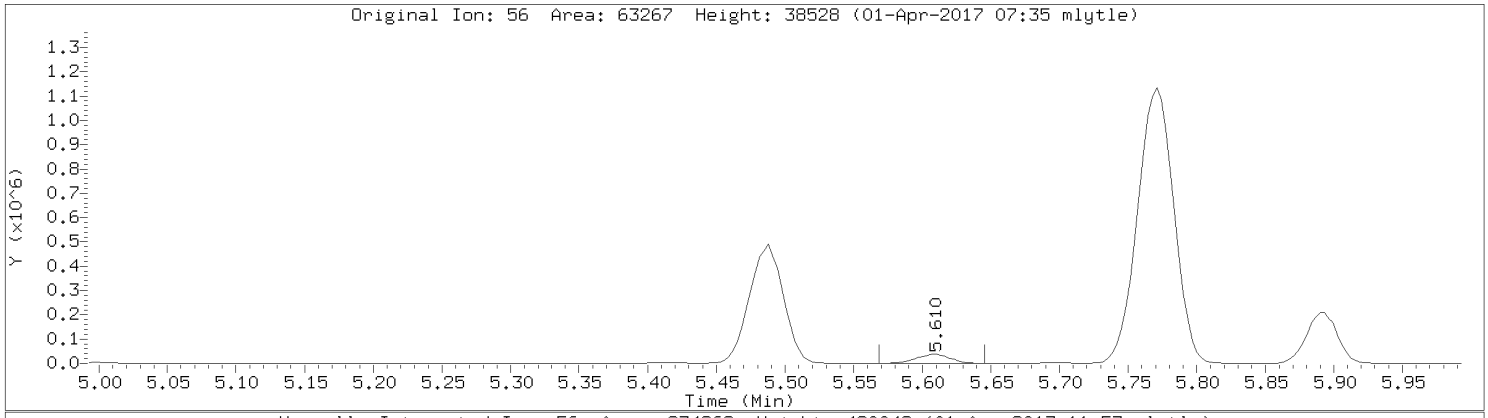


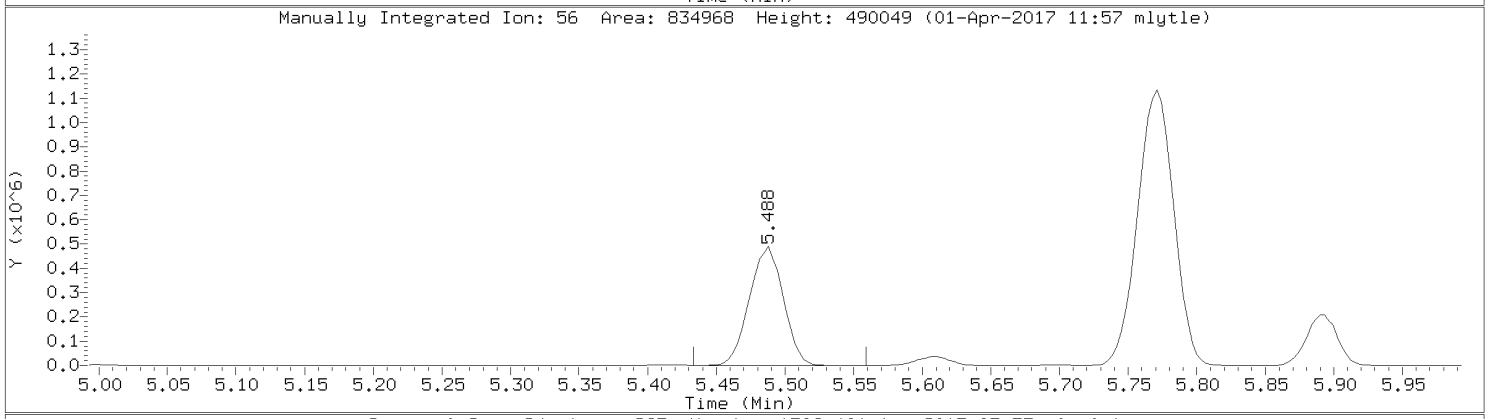


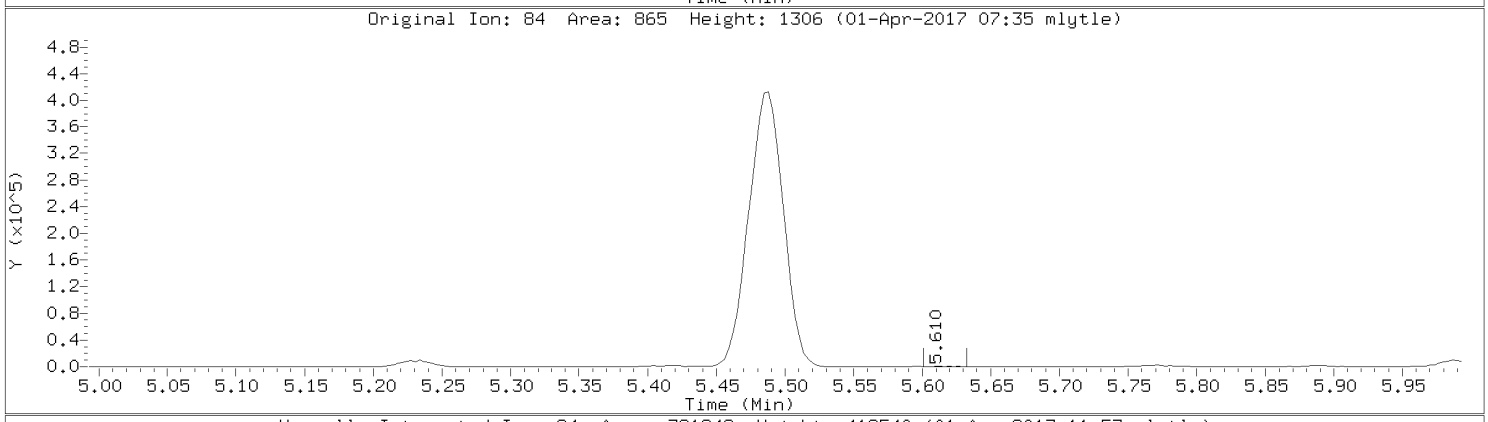


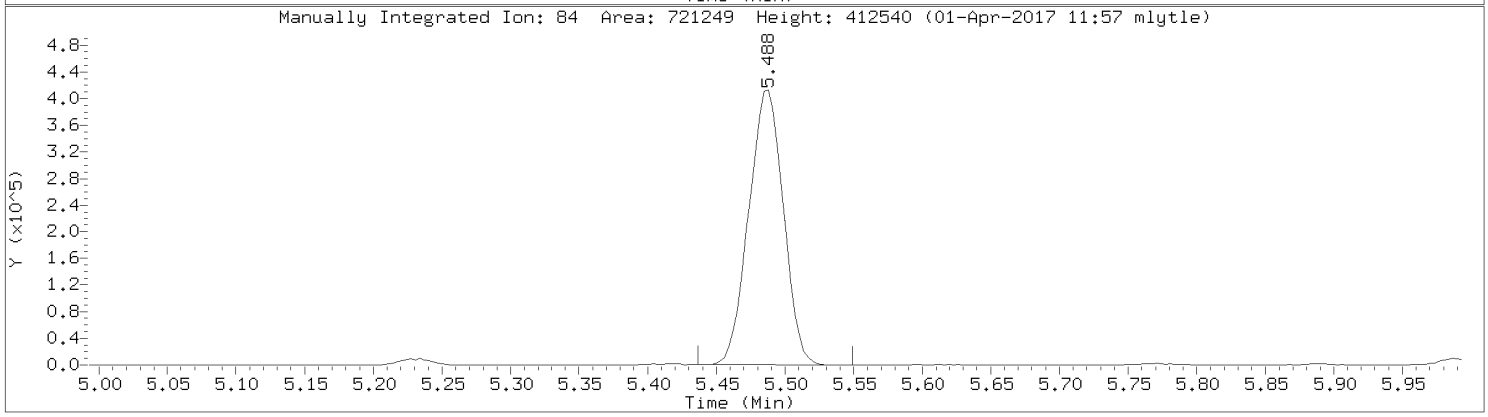
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

Compound: Cyclohexane
CAS Number: 110-82-7

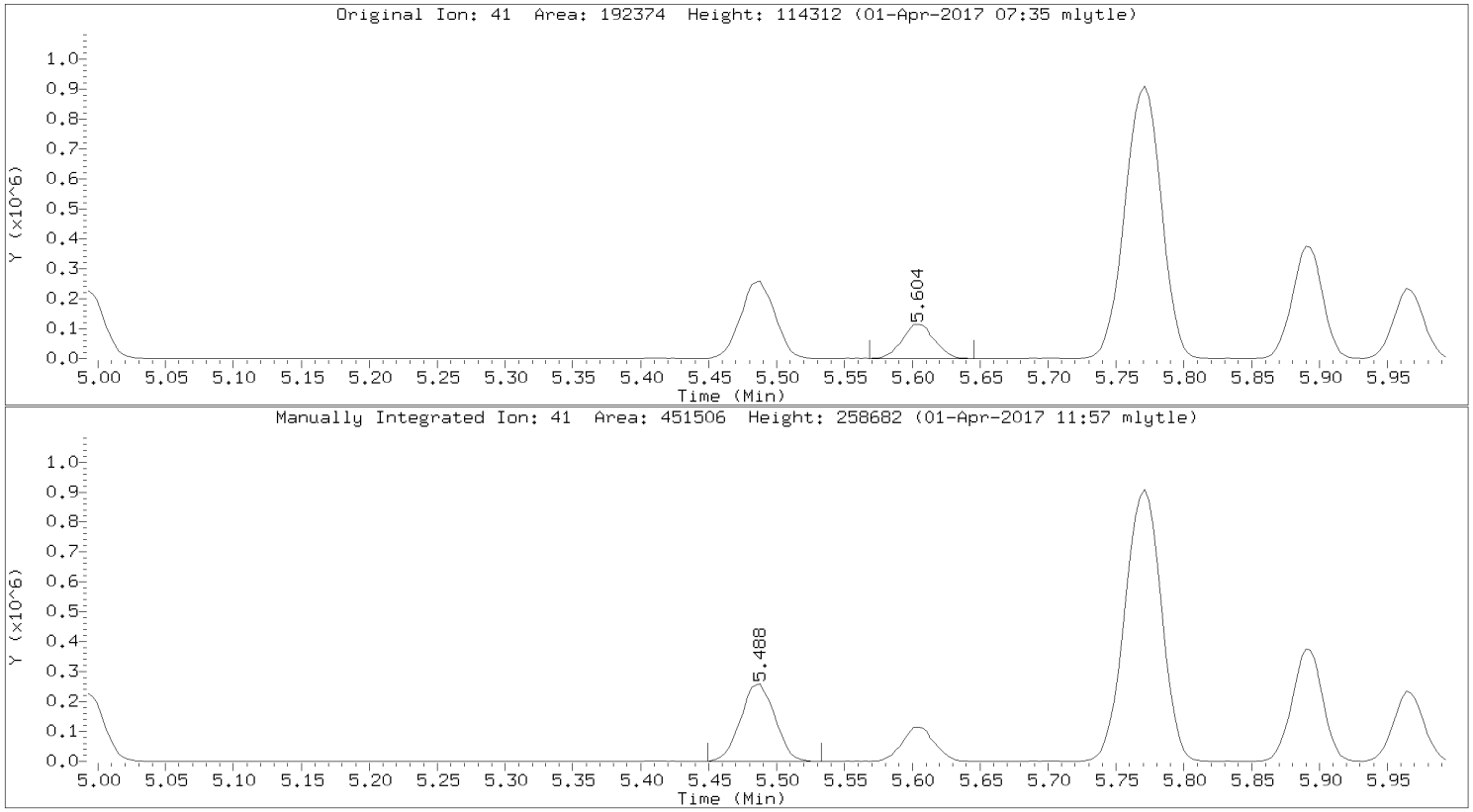






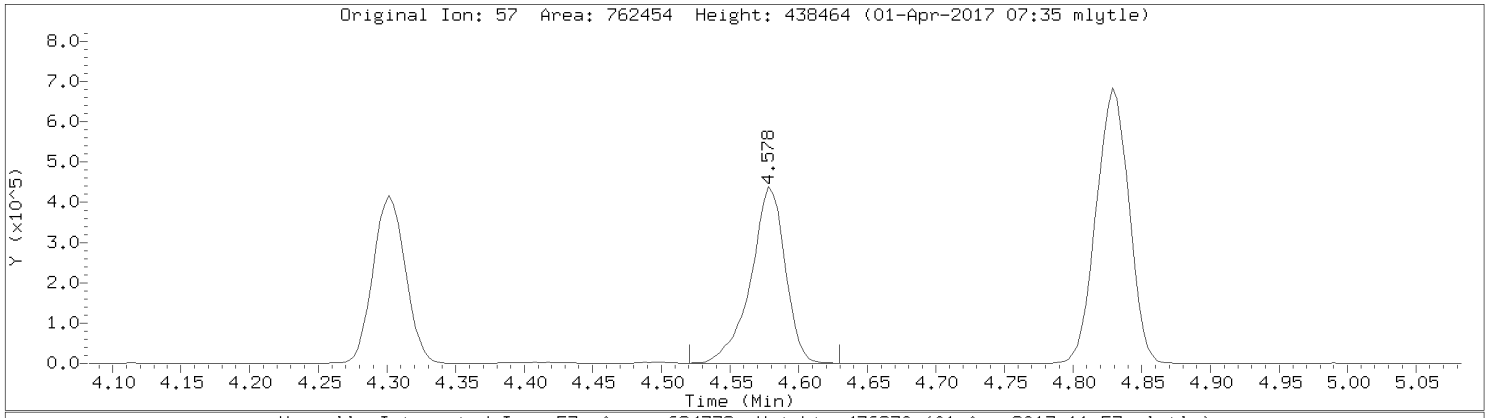


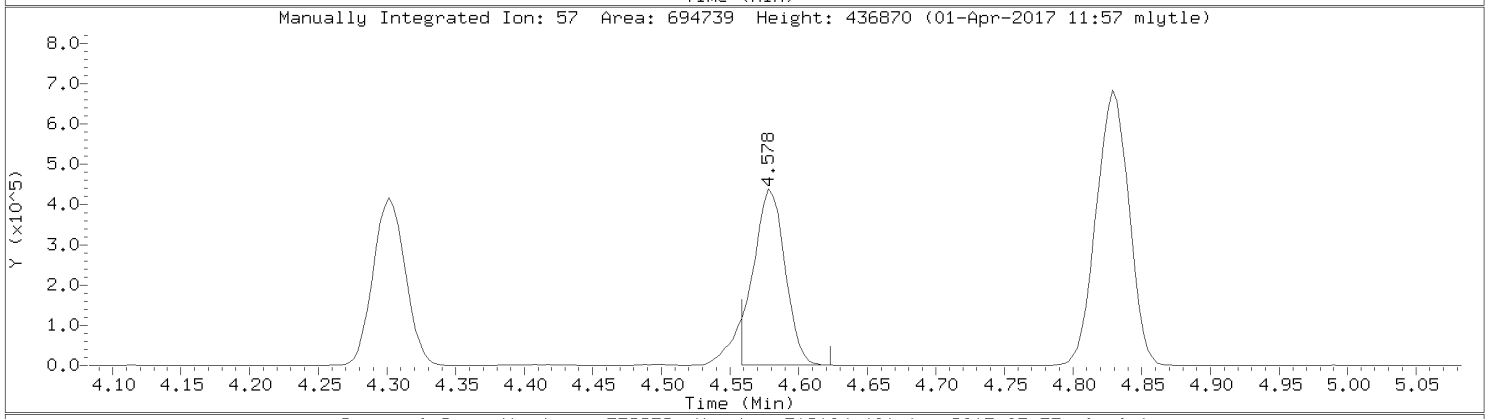
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

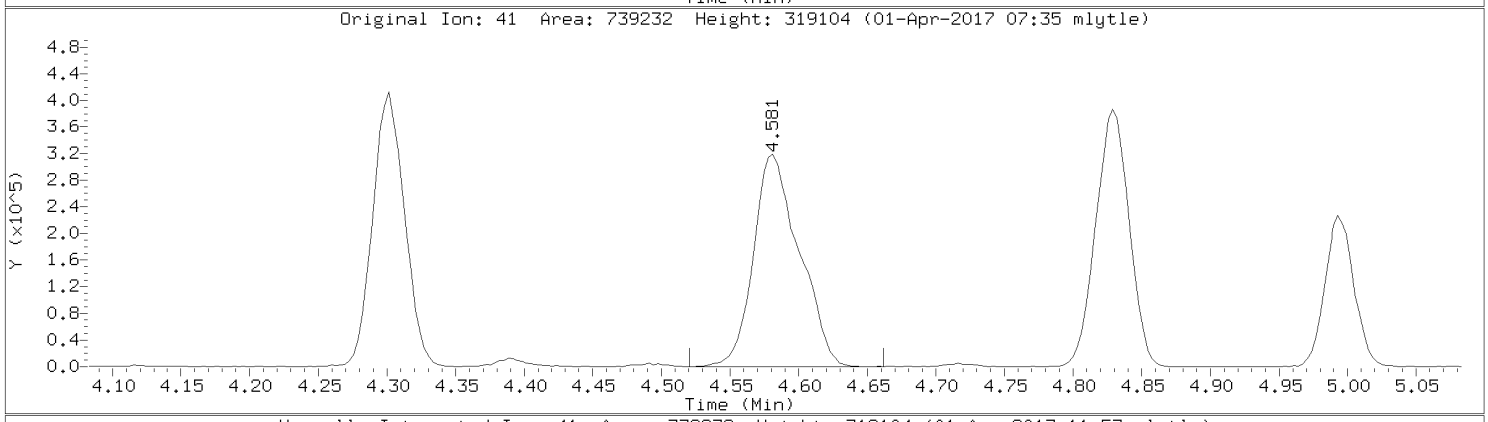


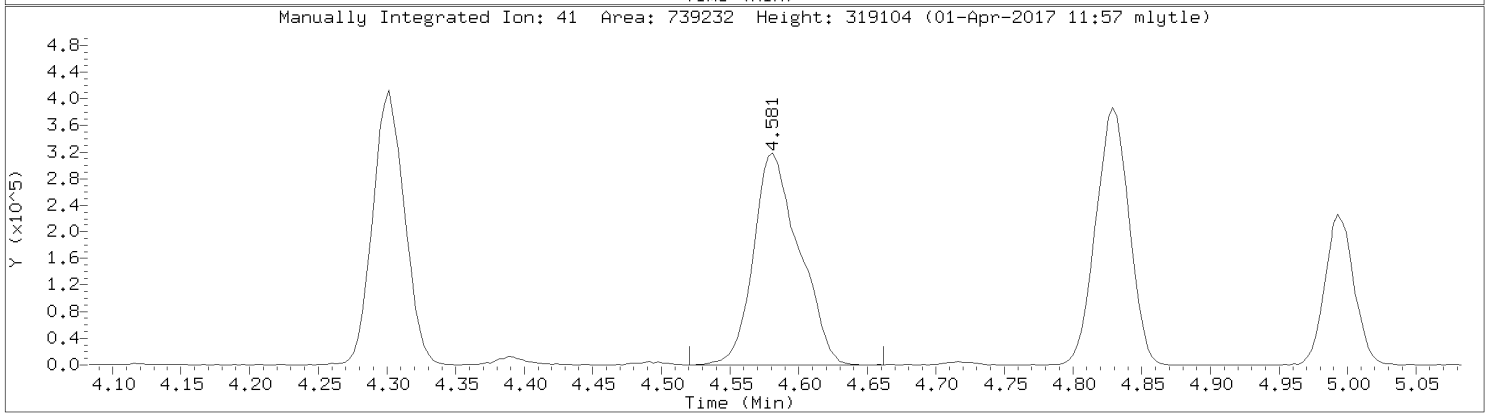
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

Compound: n-Hexane
CAS Number: 110-54-3

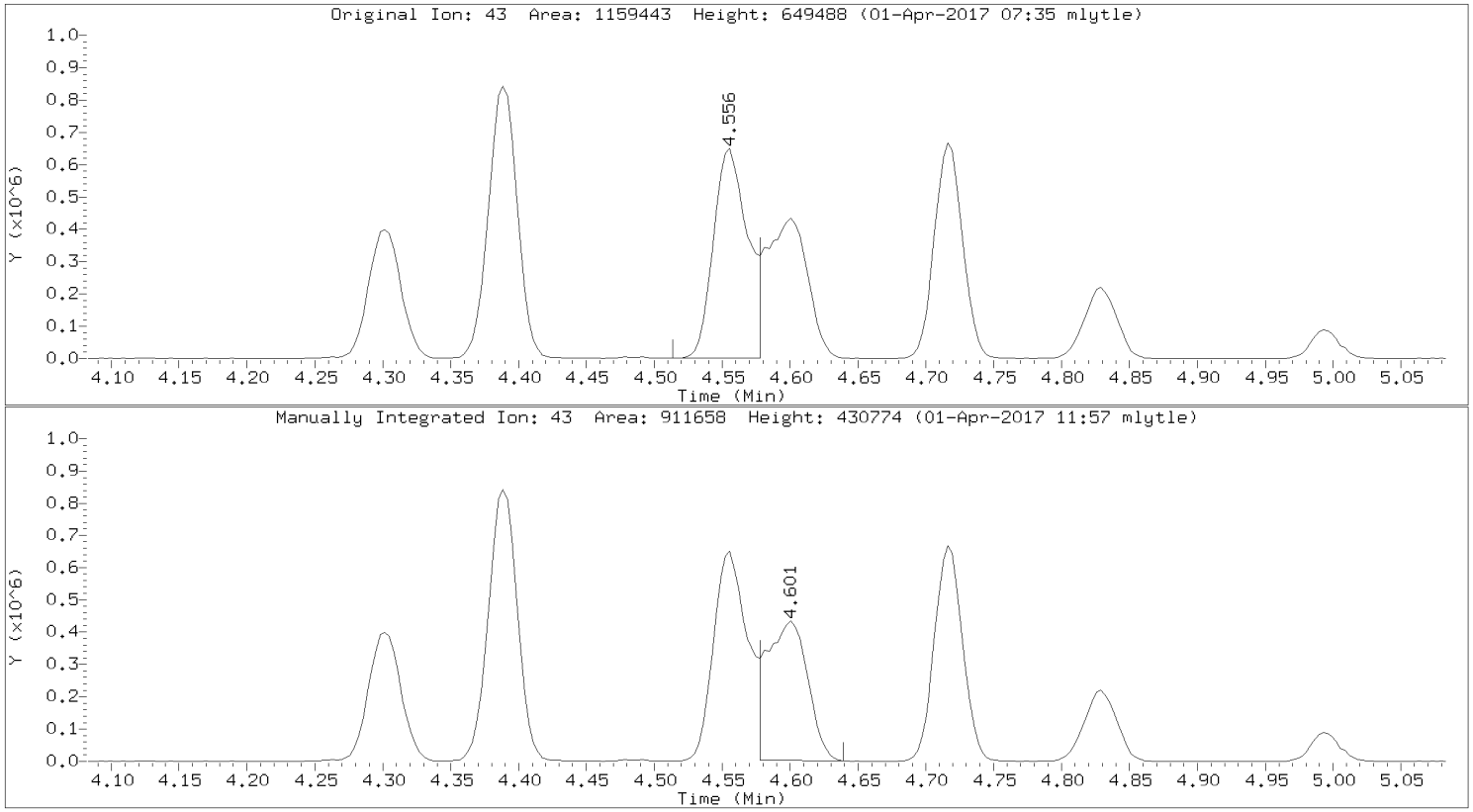






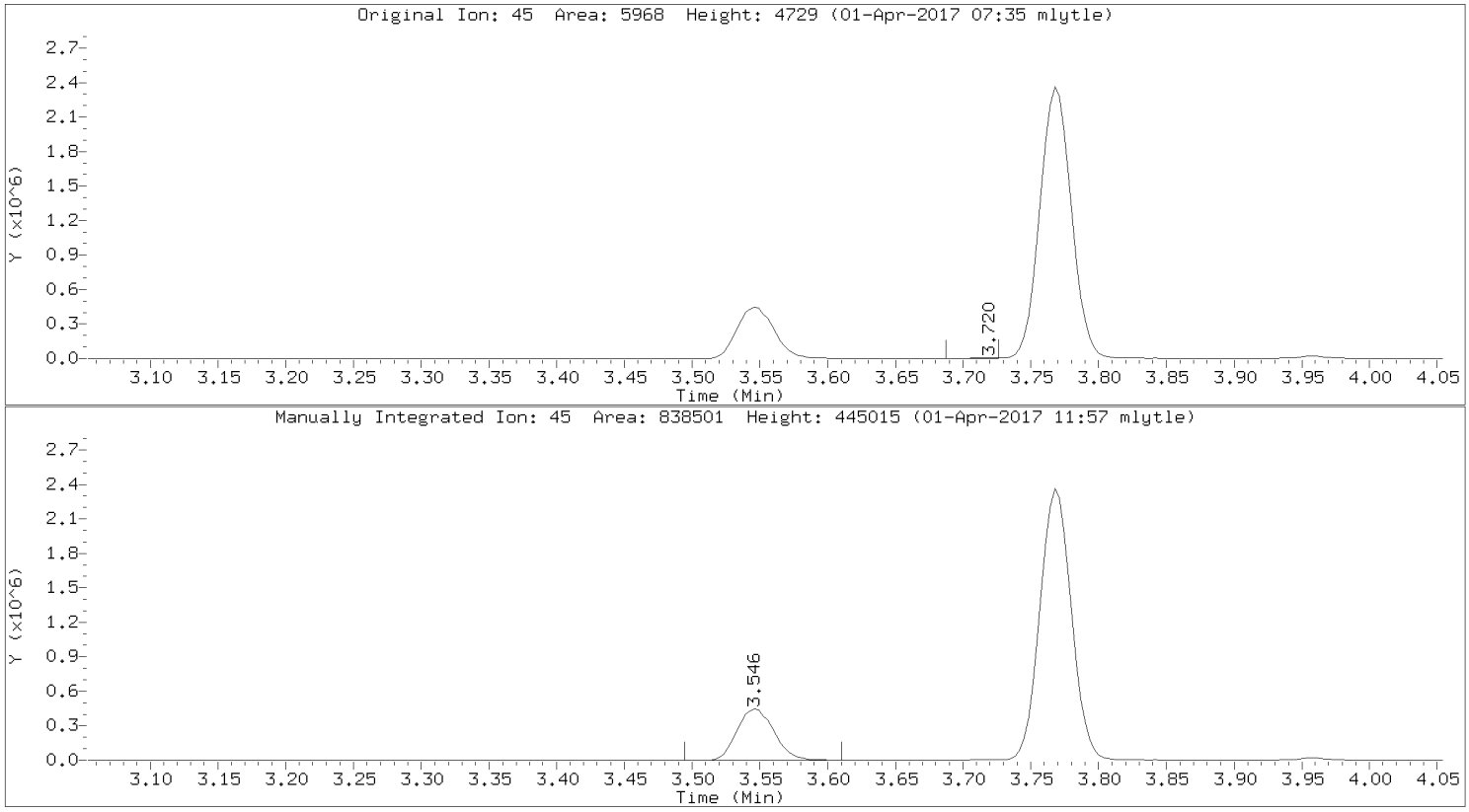


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5



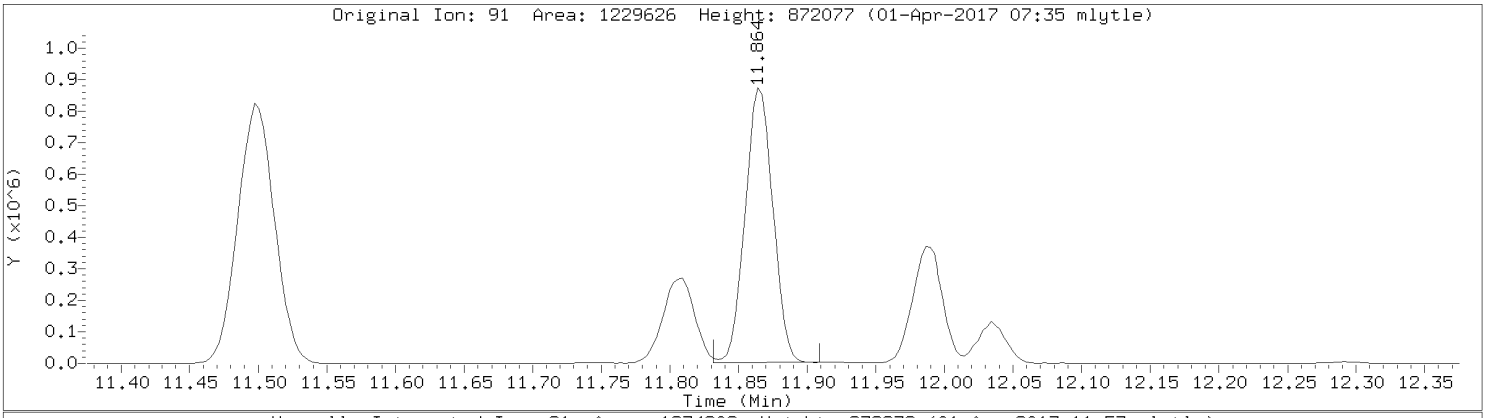
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

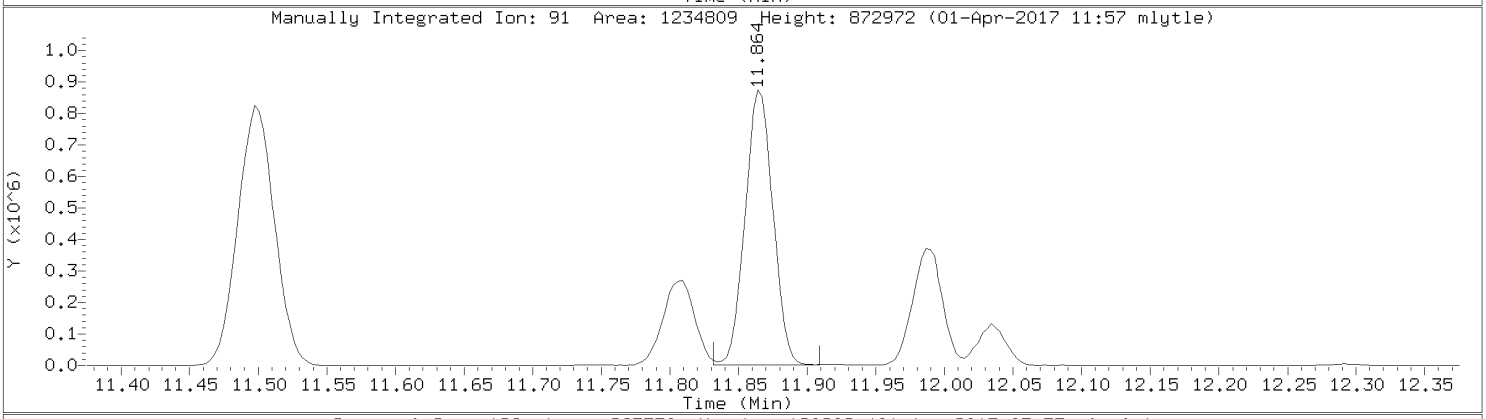
Compound: Ethanol
CAS Number: 64-17-5

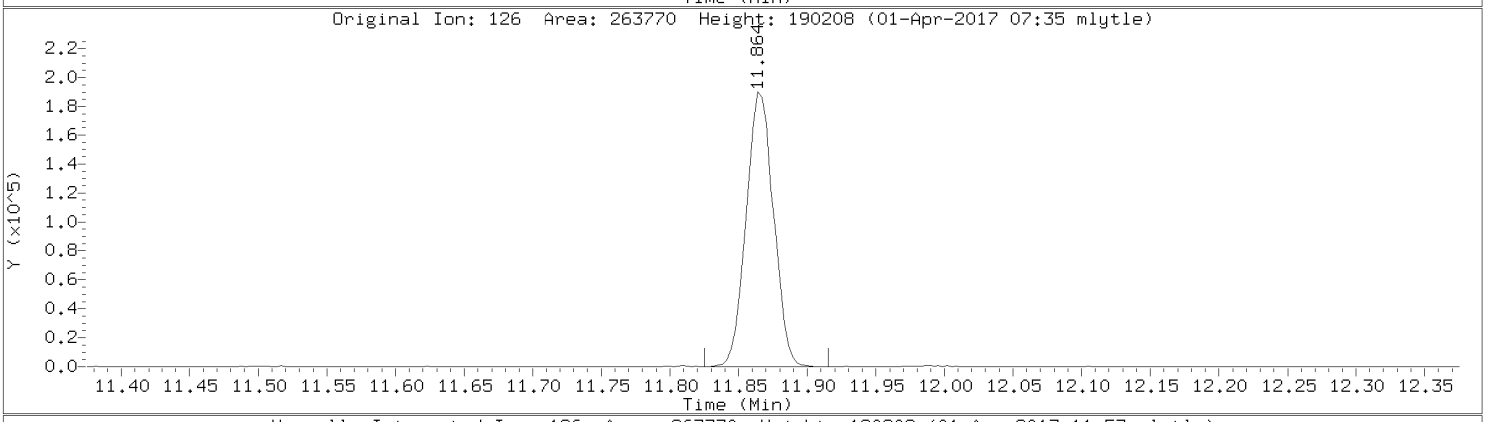


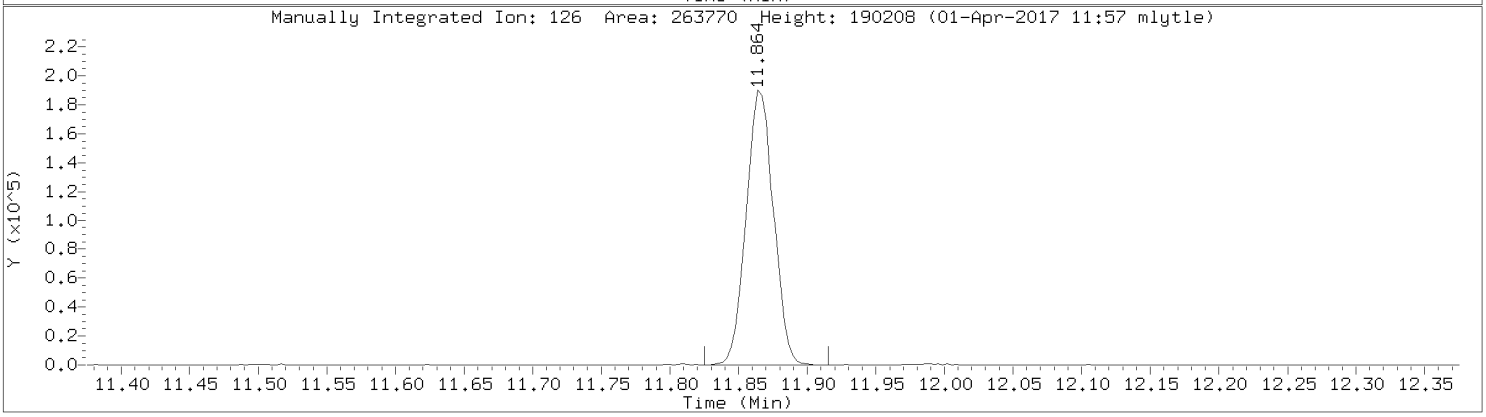
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

Compound: Benzyl Chloride
CAS Number: 100-44-7



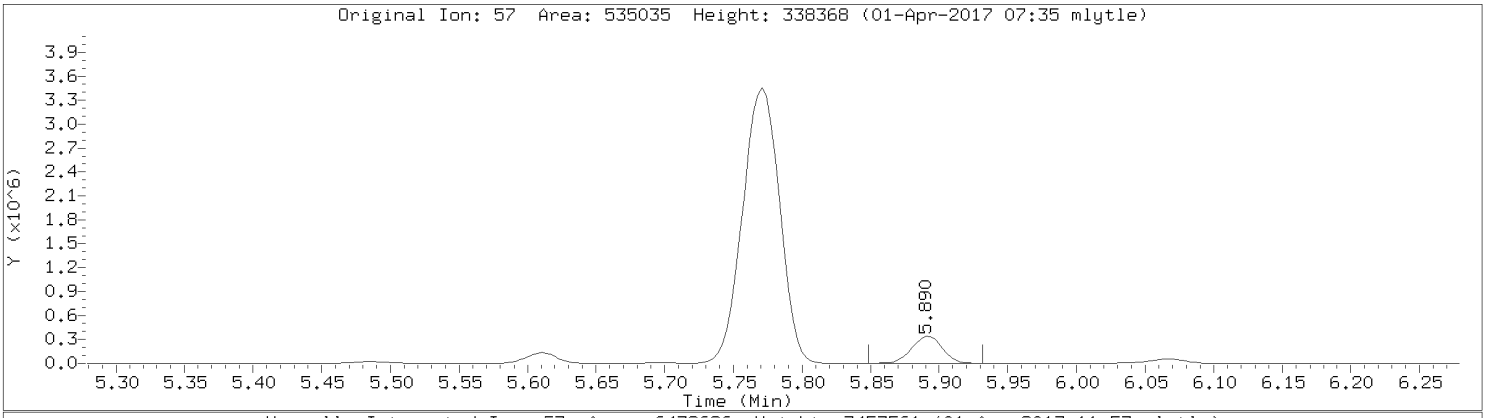


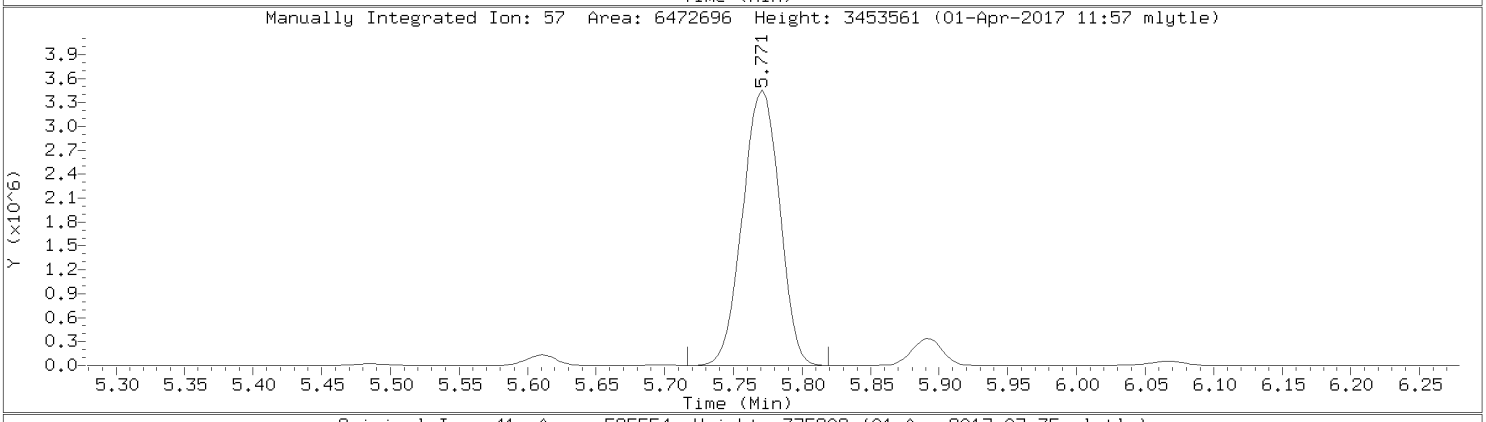


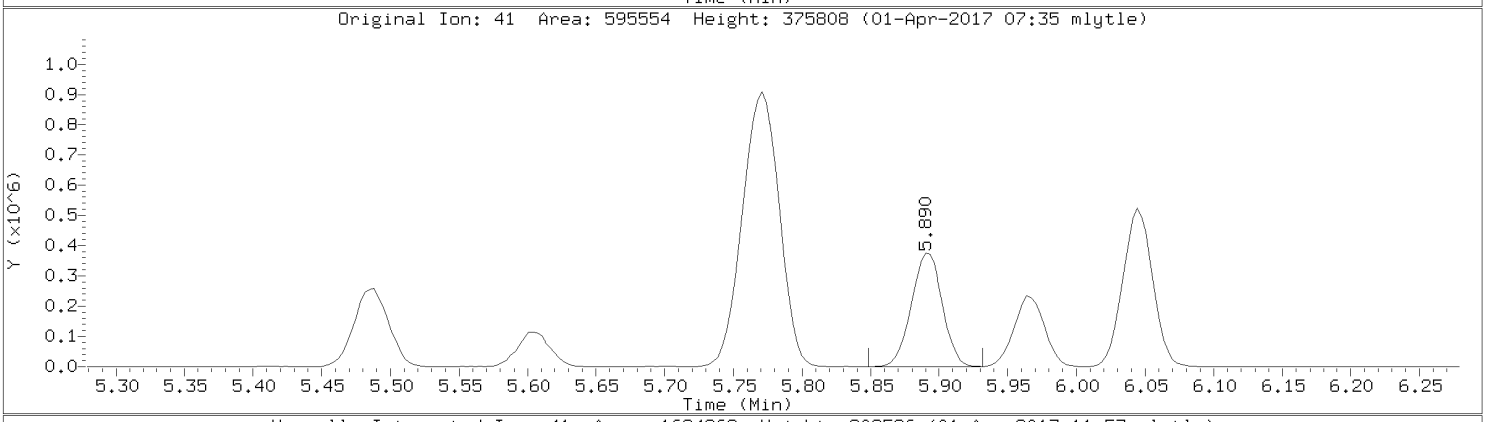


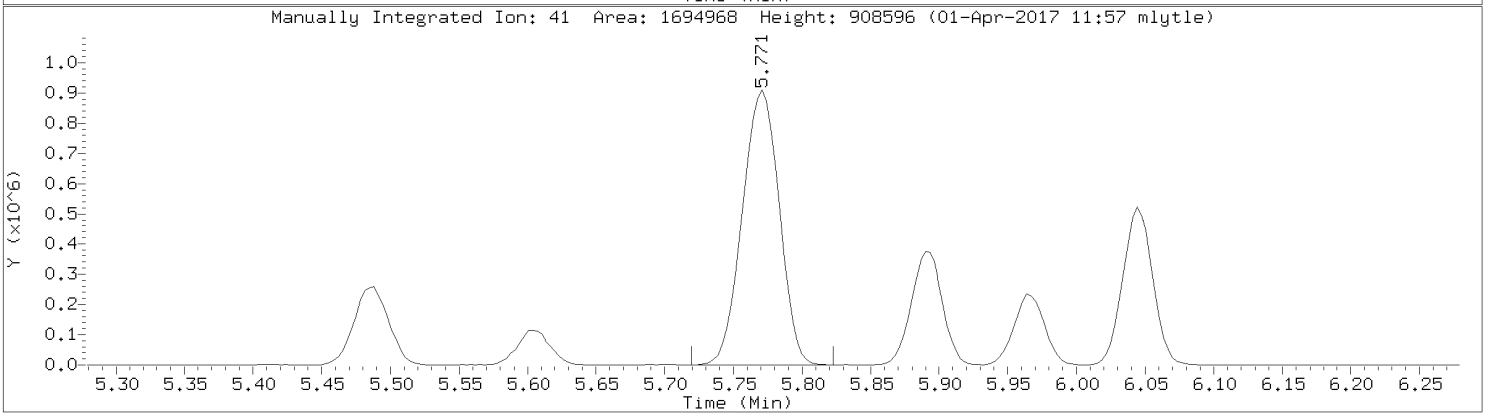
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

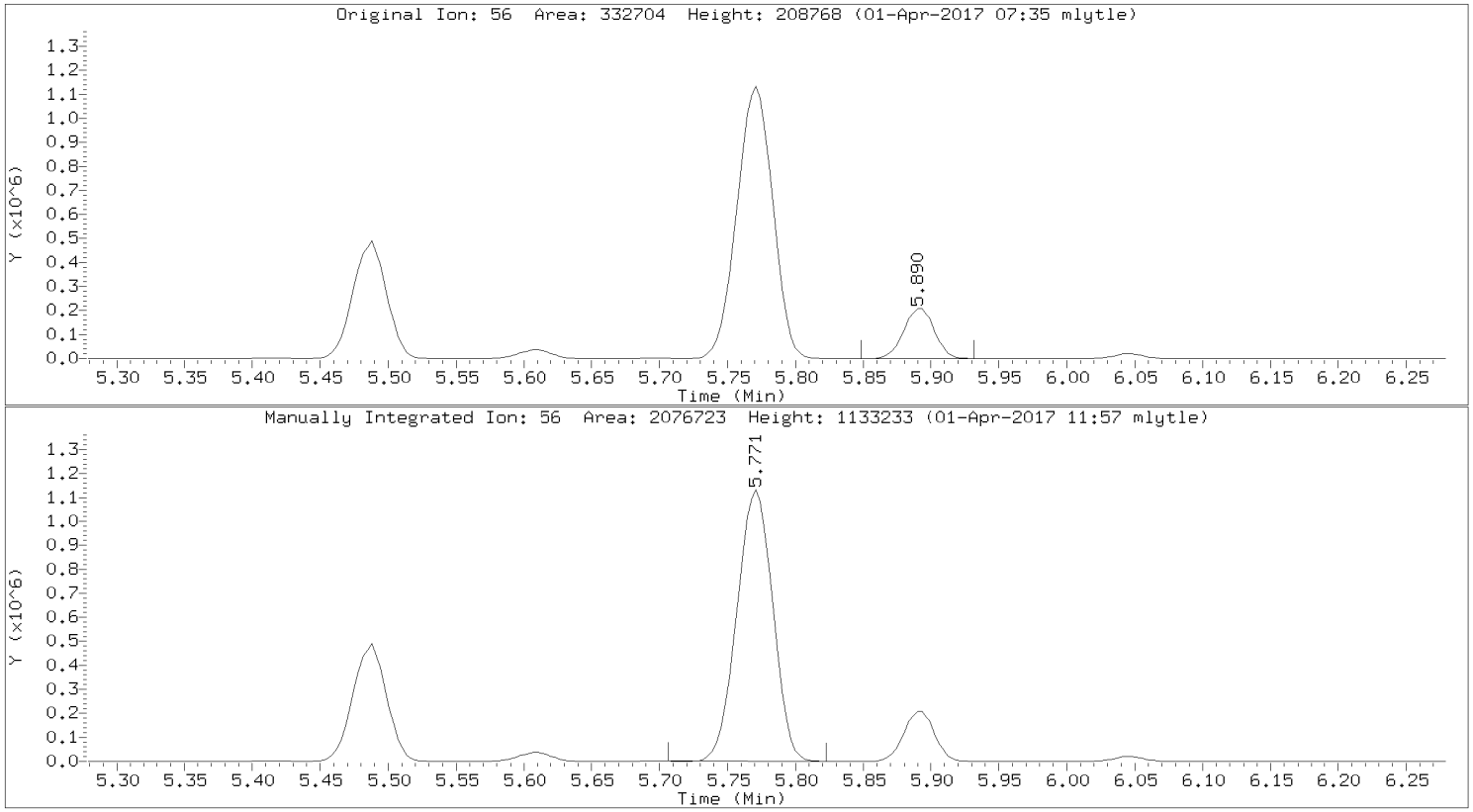






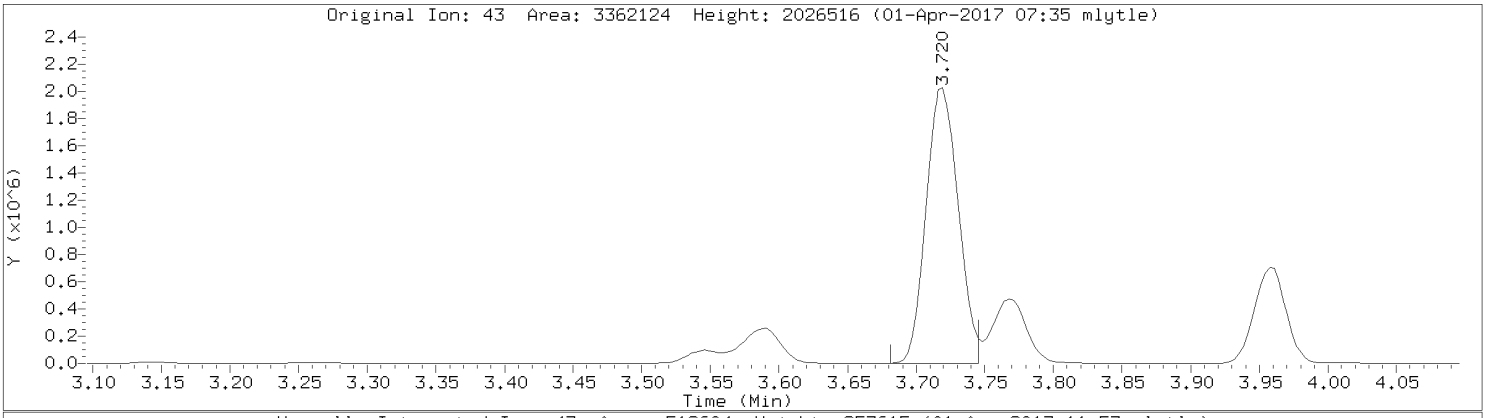


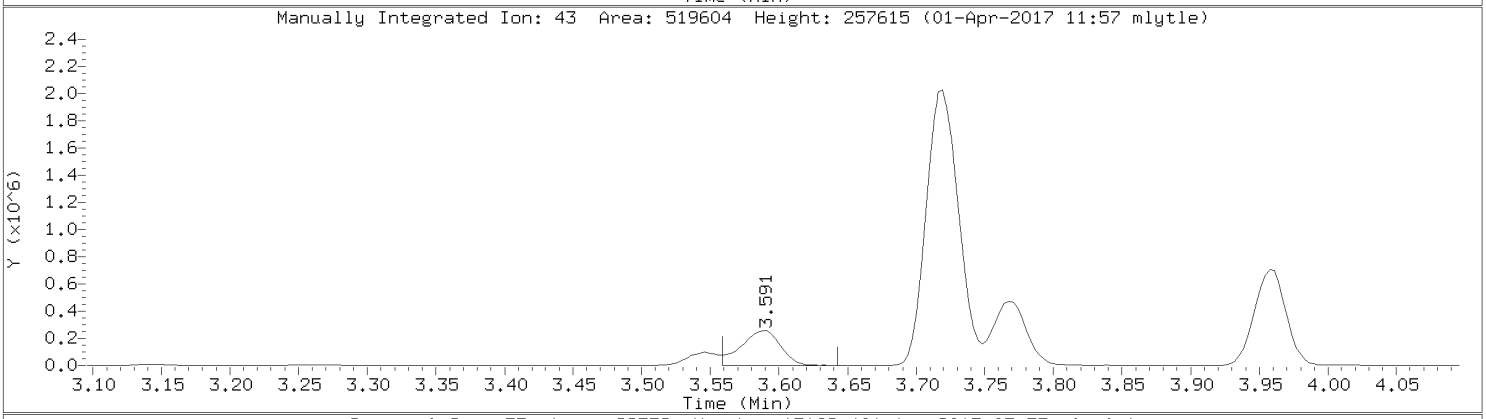
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

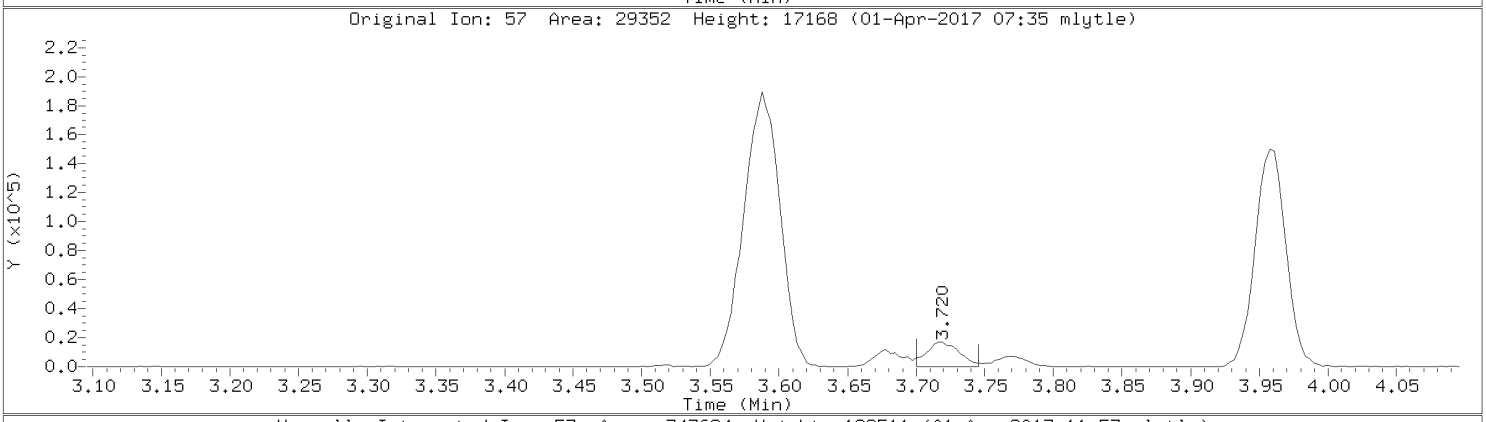


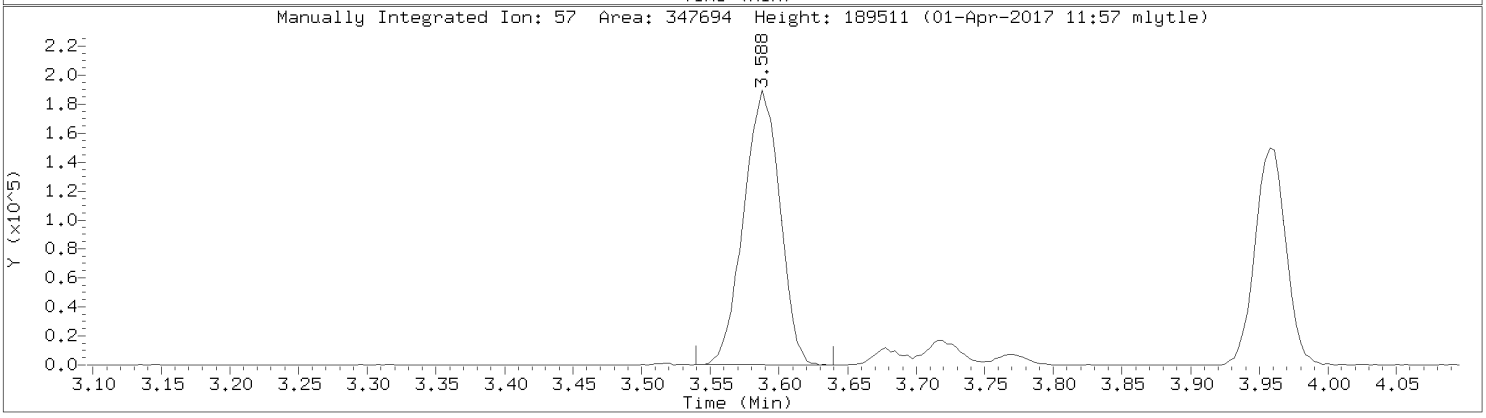
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

Compound: Isopentane
CAS Number: 78-78-4

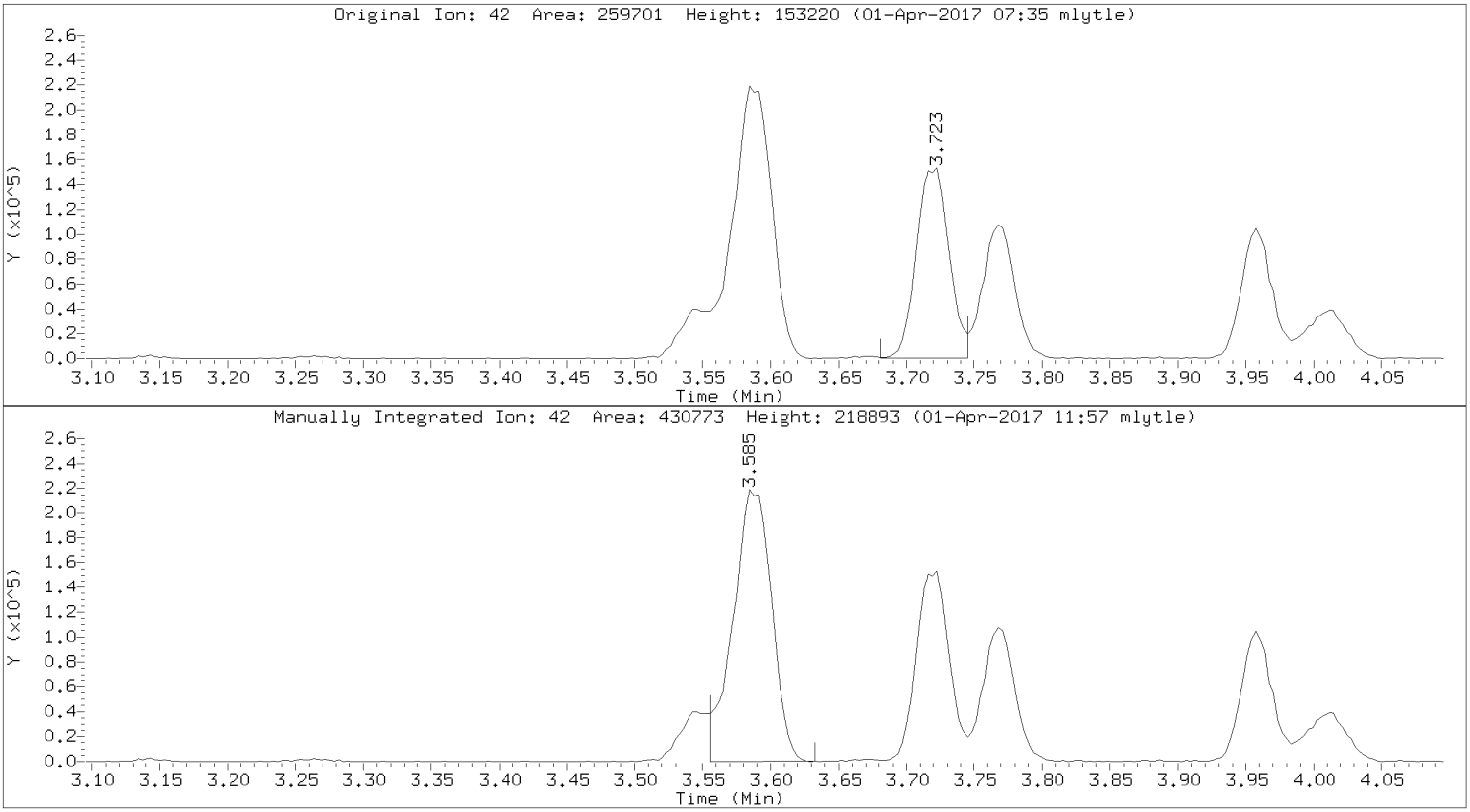






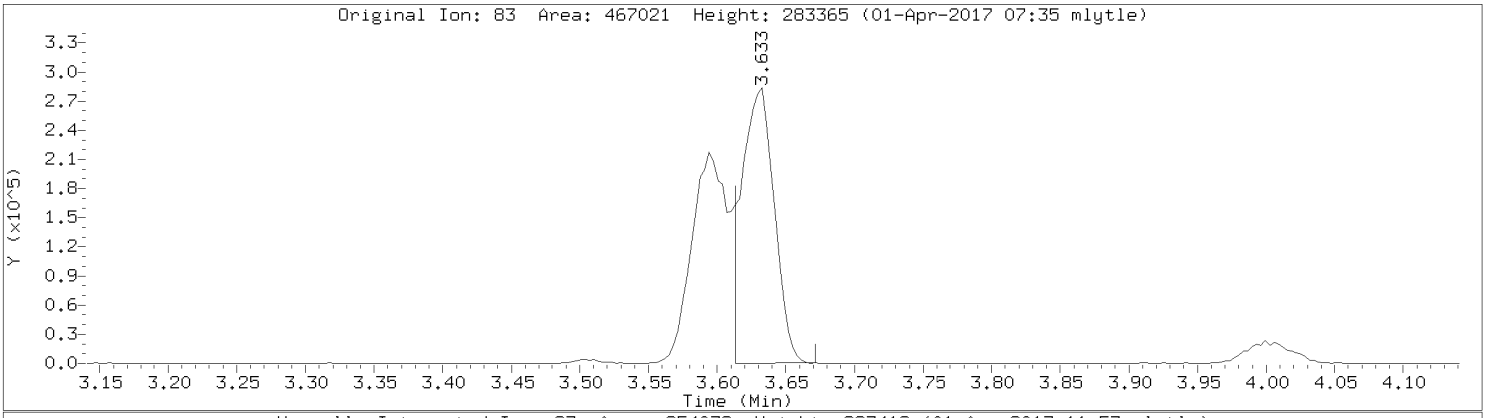


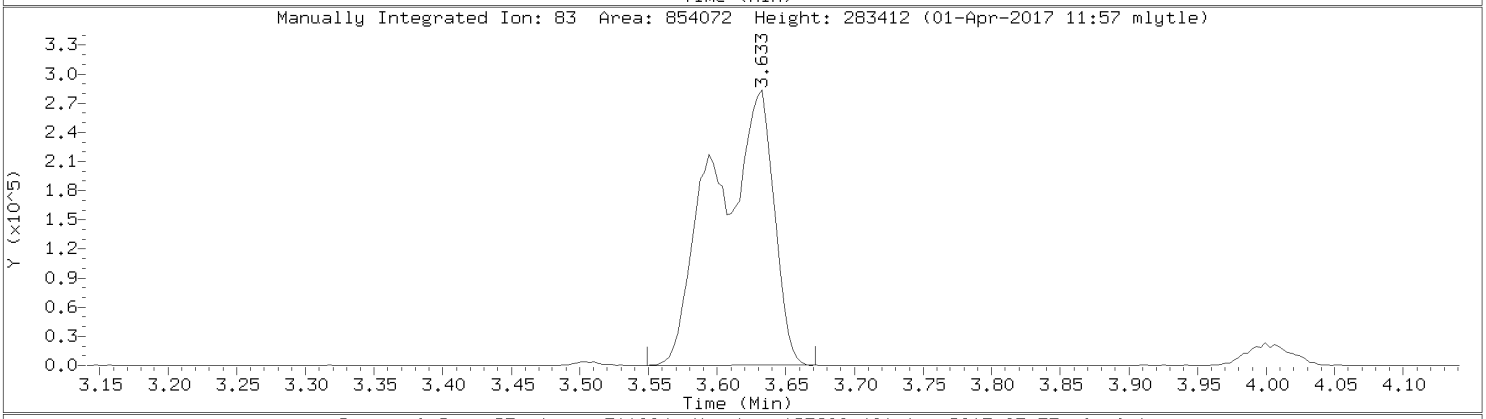
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

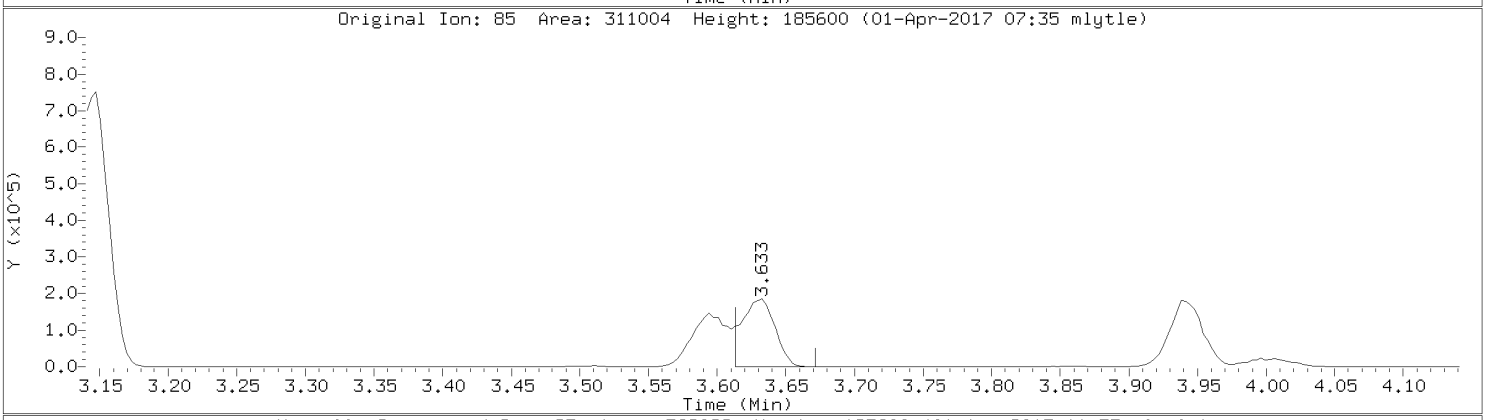


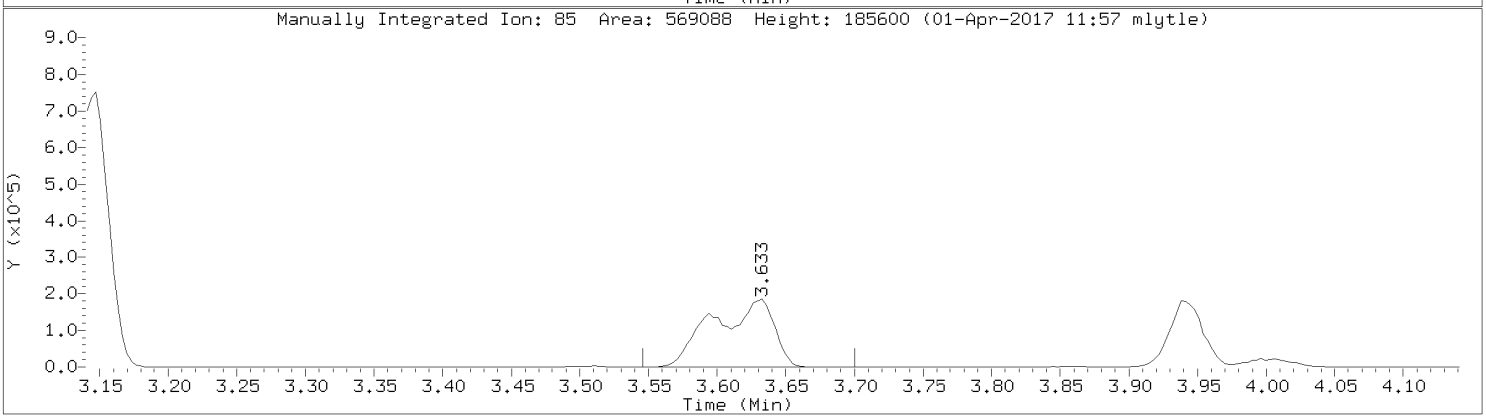
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

Compound: Freon 123
CAS Number: 306-83-2

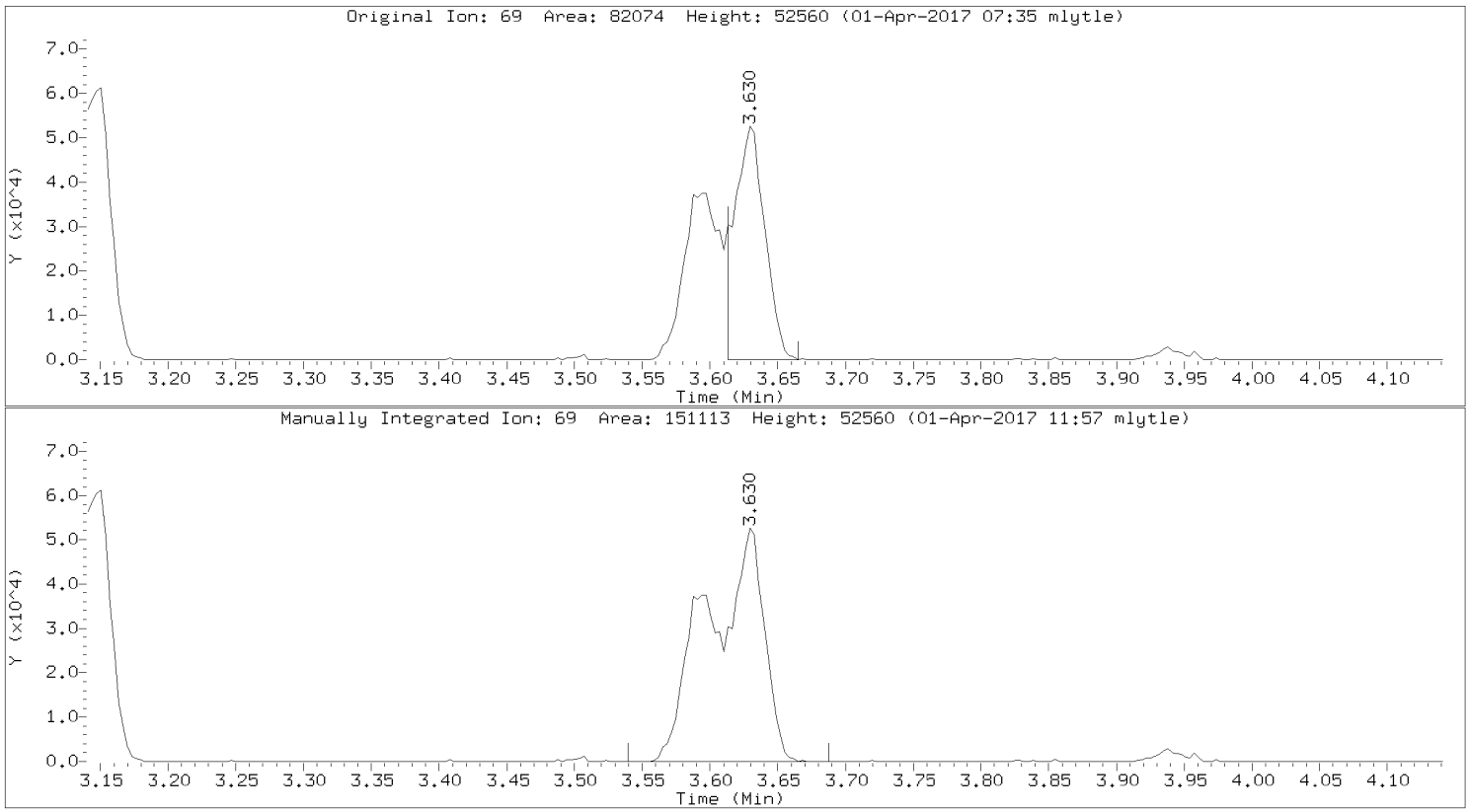






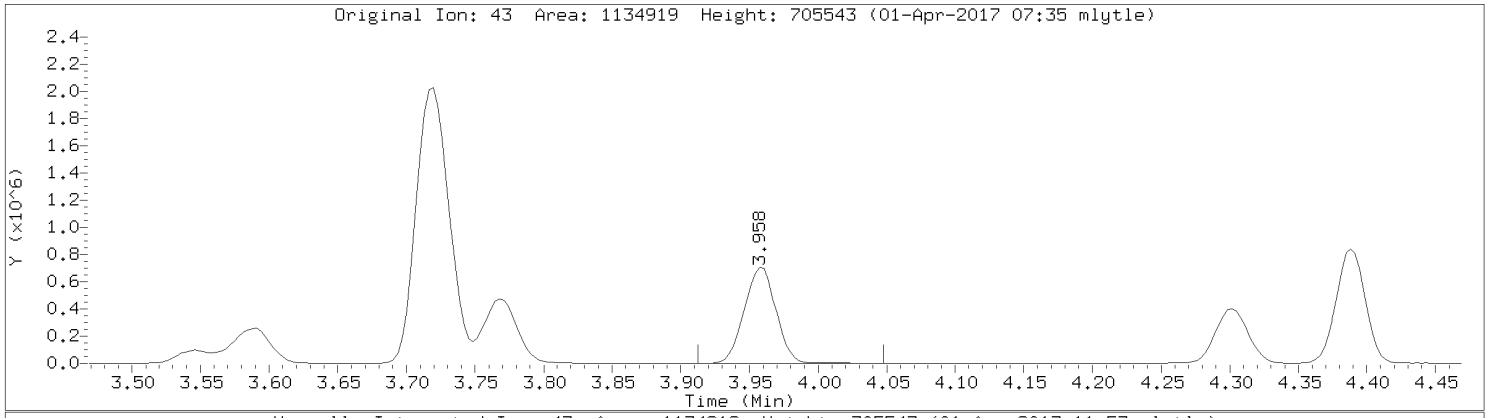


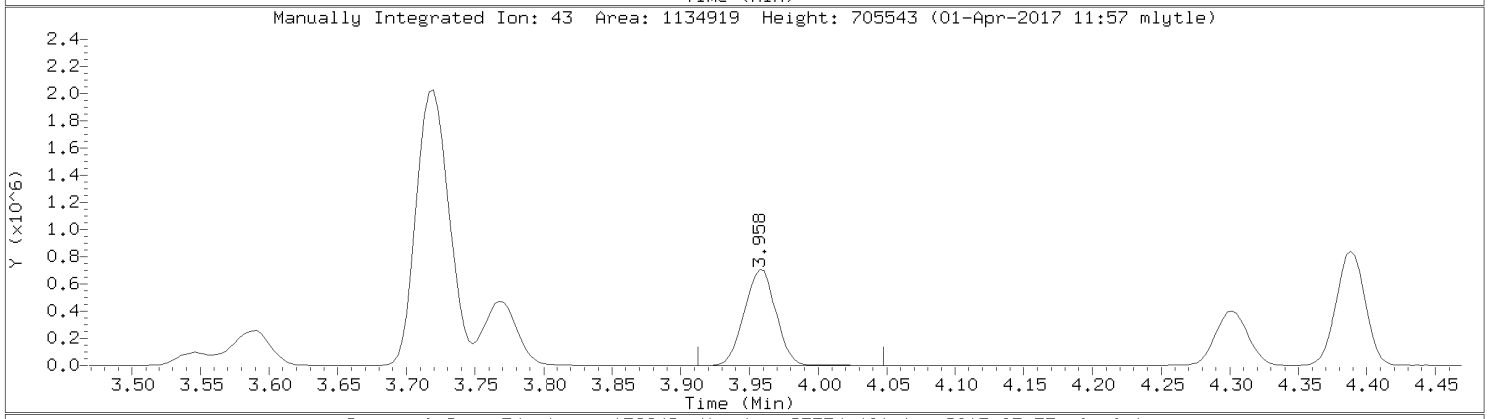
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

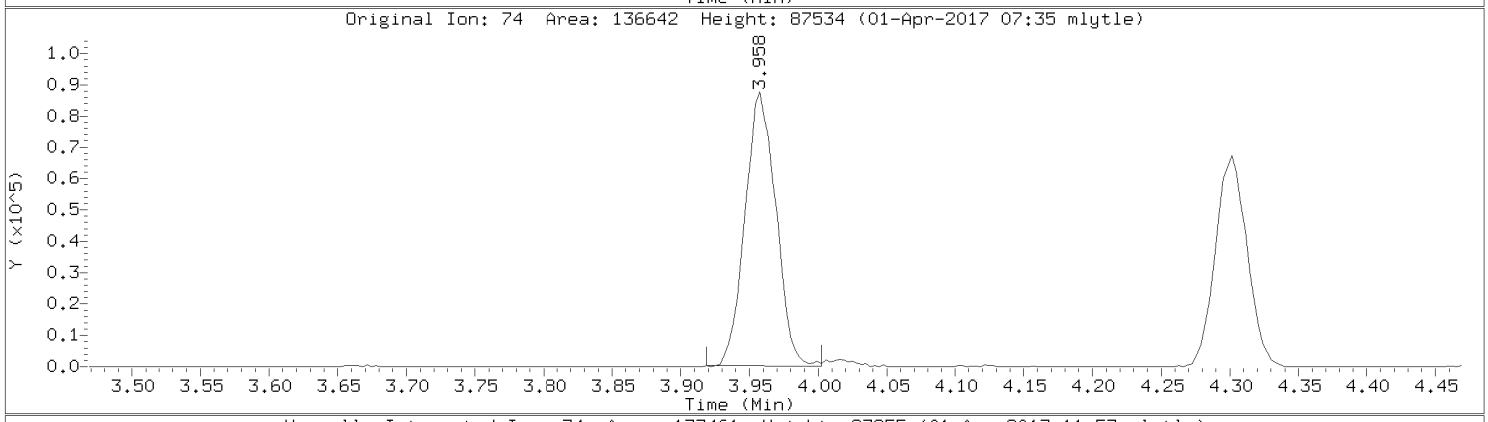


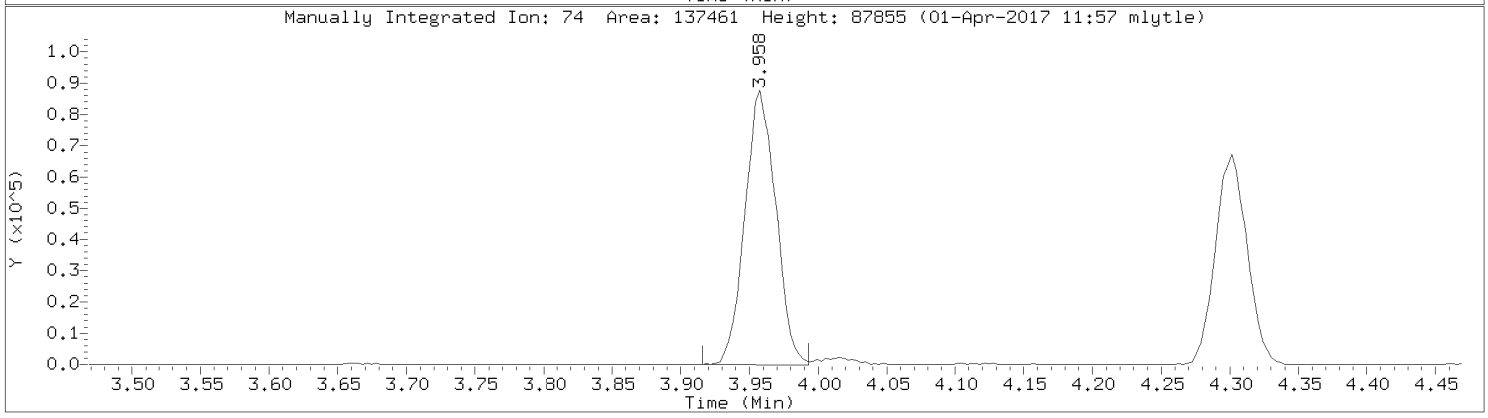
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5

Compound: Methyl Acetate
CAS Number: 79-20-9

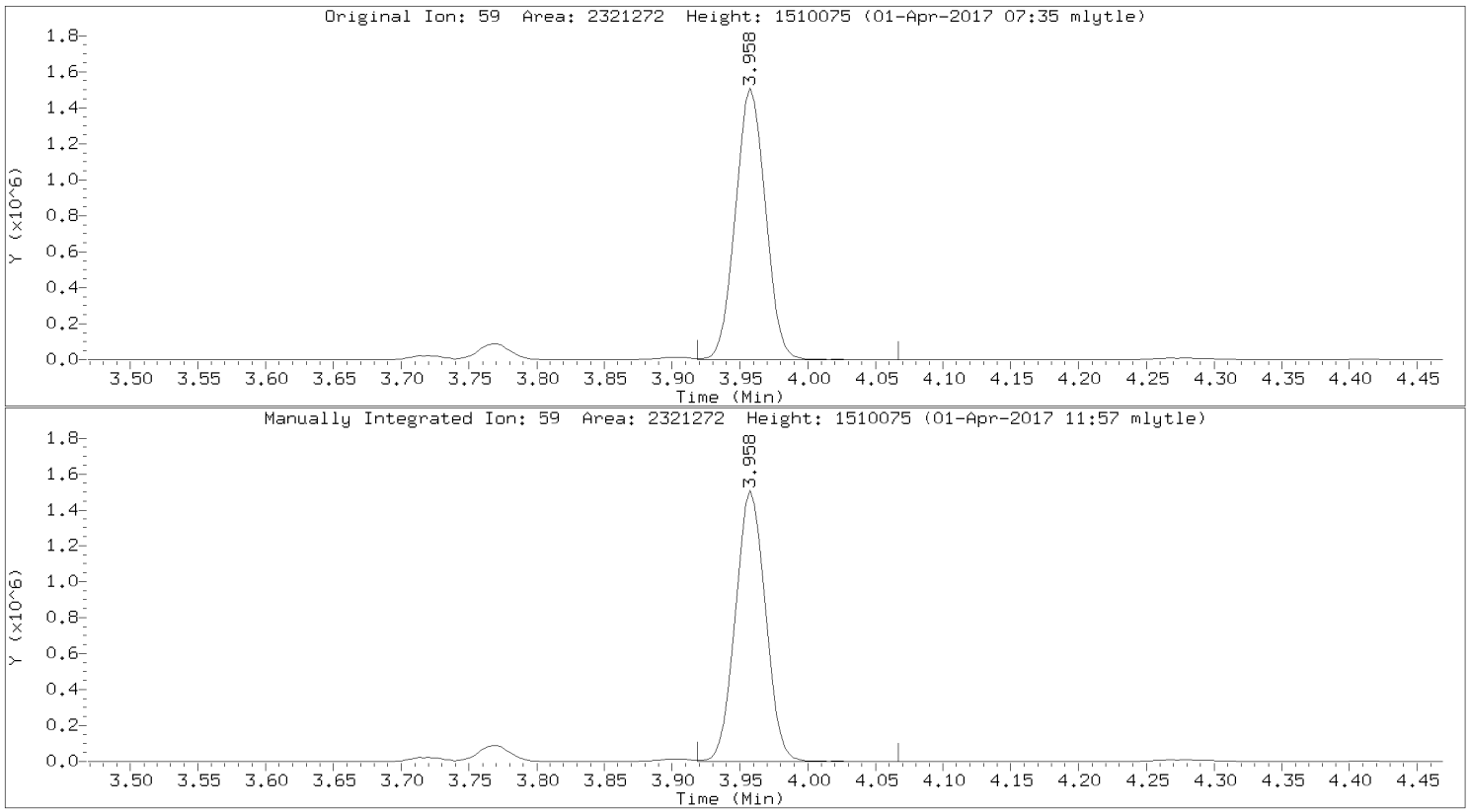








Data File: \\192.168.10.12\chem\10airB.i\033117.b/09006.D
Injection Date: 31-MAR-2017 17:31
Instrument: 10airB.i
Lab Sample ID: CAL5



Data File: \\192.168.10.12\chem\10airB.i\033117.b\09007.D
Report Date: 01-Apr-2017 11:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033117.b\09007.D
Lab Smp Id: CAL6
Inj Date : 31-MAR-2017 17:59
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Meth Date : 01-Apr-2017 11:58 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 17:31 Cal File: 09006.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.947	(0.525)	353294	20.0000	9.08
2	1,1-Difluoroethane	65	3.028	3.028	(0.539)	591748	20.0000	19.7
3	Chlorodifluoromethane	67	3.031	3.031	(0.540)	254925	20.0000	18.8
4	Propylene	41	3.034	3.034	(0.540)	733933	20.0000	19.2
5	Dichlorodifluoromethane	85	3.069	3.069	(0.547)	2517263	20.0000	17.7(H)
6	Chloromethane	50	3.166	3.166	(0.564)	1192140	20.0000	19.2(H)
7	Dichlorotetrafluoroethane	85	3.176	3.176	(0.565)	2373705	20.0000	19.2
8	Vinyl chloride	62	3.243	3.243	(0.578)	979813	20.0000	20.0
9	1,3-Butadiene	54	3.288	3.288	(0.586)	769251	20.0000	19.7
10	Bromomethane	94	3.423	3.423	(0.610)	752593	20.0000	20.1
11	Chloroethane	64	3.478	3.478	(0.619)	422043	20.0000	20.3
12	Ethanol	45	3.552	3.552	(0.632)	1749801	100.000	98.0(M)
13	Vinyl Bromide	106	3.594	3.594	(0.640)	722892	20.0000	20.0
14	Isopentane	43	3.610	3.610	(0.643)	919934	20.0000	17.9(M)
15	Freon 123	83	3.642	3.642	(0.648)	1654096	20.0000	19.4(M)
16	Trichlorofluoromethane	101	3.684	3.684	(0.656)	1880365	20.0000	19.5
17	Acrolein	56	3.690	3.690	(0.657)	844374	50.0000	51.4
18	Acetone	43	3.729	3.729	(0.664)	6357643	100.000	92.4
19	Isopropyl Alcohol	45	3.774	3.774	(0.672)	7065675	100.000	90.6
20	1,1-Dichloroethene	61	3.918	3.918	(0.698)	1353355	20.0000	19.6
21	Acrylonitrile	53	3.938	3.938	(0.701)	1753633	50.0000	47.7
22	Freon 113	101	3.957	3.957	(0.705)	1397181	20.0000	17.6
23	Methyl Acetate	43	3.967	3.967	(0.706)	2041673	20.0000	17.7

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09007.D
Report Date: 01-Apr-2017 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.963	3.963	(0.706)	4105788	50.0000	43.3
	25 Methylene chloride	49	4.015	4.015	(0.715)	4777890	100.000	86.8
	26 Allyl Chloride	76	4.024	4.024	(0.717)	698346	50.0000	53.5
	27 Carbon Disulfide	76	4.134	4.134	(0.736)	1720011	20.0000	20.3
	28 trans-1,2-dichloroethene	96	4.285	4.285	(0.763)	726291	20.0000	19.2
	29 Methyl Tert Butyl Ether	73	4.307	4.307	(0.767)	4591526	50.0000	46.6
	30 Vinyl Acetate	43	4.397	4.397	(0.783)	2518342	20.0000	20.6
	31 1,1-Dichloroethane	63	4.417	4.417	(0.786)	1480779	20.0000	20.0(H)
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	740210	10.0000	10.2
	33 Methyl Ethyl Ketone	72	4.561	4.561	(0.812)	358311	20.0000	18.4(Q)
	34 n-Hexane	57	4.587	4.587	(0.817)	1360186	20.0000	18.4(M)
	35 Di-isopropyl Ether	45	4.610	4.610	(0.821)	2919516	20.0000	18.8
	36 Ethyl Acetate	43	4.722	4.722	(0.841)	1929356	20.0000	18.7
	37 cis-1,2-Dichloroethene	96	4.732	4.732	(0.843)	788487	20.0000	18.9
	38 Ethyl Tert-Butyl Ether	59	4.835	4.835	(0.861)	6074481	50.0000	41.7
	39 Chloroform	83	4.847	4.847	(0.863)	1366257	20.0000	17.5
	40 Tetrahydrofuran	42	4.995	4.995	(0.889)	1172392	20.0000	19.4
	41 1,1,1-Trichloroethane	97	5.237	5.237	(0.932)	2001238	20.0000	19.8
	42 1,2-Dichloroethane	62	5.243	5.243	(0.934)	1565189	20.0000	18.9
	43 Benzene	78	5.471	5.471	(0.974)	2768699	20.0000	19.0
	44 Carbon tetrachloride	117	5.491	5.491	(0.978)	2053303	20.0000	20.3
	45 Cyclohexane	56	5.494	5.494	(0.978)	1537837	20.0000	18.4(M)
	46 Tert Amyl Methyl Ether	73	5.606	5.606	(0.998)	2633761	20.0000	16.8
*	47 1,4-Difluorobenzene	114	5.616	5.616	(1.000)	1927964	10.0000	
	48 2,2,4-Trimethylpentane	57	5.777	5.777	(1.029)	11269758	50.0000	44.0(M)
	49 Heptane	43	5.896	5.896	(1.050)	1910711	20.0000	19.1
	50 1,2-Dichloropropane	63	5.973	5.973	(1.064)	1144900	20.0000	19.2
	51 Trichloroethene	130	5.992	5.992	(1.067)	1451996	20.0000	18.6
	52 Methyl methacrylate	69	6.050	6.050	(1.077)	991033	20.0000	18.9
	53 1,4-Dioxane	88	6.069	6.069	(1.081)	693345	20.0000	19.3
	54 Bromodichloromethane	83	6.092	6.092	(1.085)	2074707	20.0000	20.3
	55 Methylcyclohexane	98	6.439	6.439	(1.147)	843040	20.0000	20.3
	56 Methyl Isobutyl Ketone	43	6.536	6.536	(1.164)	6211798	50.0000	45.6
	57 cis-1,3-Dichloropropene	75	6.590	6.590	(1.173)	1703219	20.0000	21.2
	58 trans-1,3-Dichloropropene	75	6.989	6.989	(1.244)	1641725	20.0000	23.3(H)
$	59 Toluene-d8 (S)	98	7.079	7.079	(1.260)	1669148	10.0000	10.3(H)
	60 1,1,2-Trichloroethane	97	7.150	7.150	(1.273)	1176417	20.0000	18.6
	61 Toluene	91	7.156	7.156	(1.274)	3463369	20.0000	18.5
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.853)	5903169	50.0000	48.0
	63 n-Octane	43	7.584	7.584	(0.877)	2567560	20.0000	18.4
	64 Dibromochloromethane	129	7.683	7.683	(0.888)	2381578	20.0000	20.1
	65 1,2-Dibromoethane	107	7.912	7.912	(0.915)	2066446	20.0000	19.0
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	1879843	20.0000	17.3
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	1224170	10.0000	
	68 Chlorobenzene	112	8.690	8.690	(1.005)	3049925	20.0000	18.2
	69 Ethyl Benzene	91	8.937	8.937	(1.033)	4736423	20.0000	18.2
	70 m&p-Xylene	91	9.085	9.085	(1.051)	6838490	40.0000	34.8
	71 n-Nonane	43	9.471	9.471	(1.095)	2248477	20.0000	17.6
	72 Bromoform	173	9.484	9.484	(1.097)	1970829	20.0000	22.1
	73 Styrene	104	9.510	9.510	(1.100)	2768322	20.0000	18.7
	74 o-Xylene	91	9.584	9.584	(1.108)	3622172	20.0000	17.7
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	2202284	20.0000	19.0
	76 Isopropylbenzene	105	10.166	10.166	(1.175)	5039424	20.0000	17.6
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	5810187	20.0000	19.7

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09007.D
Report Date: 01-Apr-2017 11:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.262)	5040733	20.0000	20.2
79	1,3,5-Trimethylbenzene	105	11.005	11.005	(1.273)	4176641	20.0000	18.8
80	n-Decane	57	11.381	11.381	(2.026)	2713297	20.0000	22.2
81	Tert-Butyl Benzene	119	11.500	11.500	(1.330)	4213986	20.0000	18.1
82	1,2,4-Trimethylbenzene	105	11.516	11.516	(1.332)	3710482	20.0000	18.5
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	2471630	20.0000	20.9
84	Sec- Butylbenzene	105	11.809	11.809	(1.365)	5230595	20.0000	18.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.371)	640151	10.0000	11.6
86	Benzyl Chloride	91	11.870	11.870	(1.373)	2654134	20.0000	20.4
87	1,4-Dichlorobenzene	146	11.892	11.892	(1.375)	2517198	20.0000	22.0
88	p-Isopropyltoluene	119	11.989	11.989	(1.386)	4660069	20.0000	19.1
89	1,2,3-Trimethylbenzene	105	12.040	12.040	(1.392)	3768381	20.0000	18.9
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.420)	2411729	20.0000	21.8
91	N-Butylbenzene	91	12.461	12.461	(1.441)	3819365	20.0000	22.0
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	898432	20.0000	19.9
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.623)	829633	20.0000	20.2
94	Naphthalene	128	14.169	14.169	(1.638)	2179418	20.0000	19.6
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	855441	20.0000	20.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09007.D
Report Date: 01-Apr-2017 11:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09007.D
Lab Smp Id: CAL6
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Misc Info:

Calibration Date: 31-MAR-2017
Calibration Time: 17:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

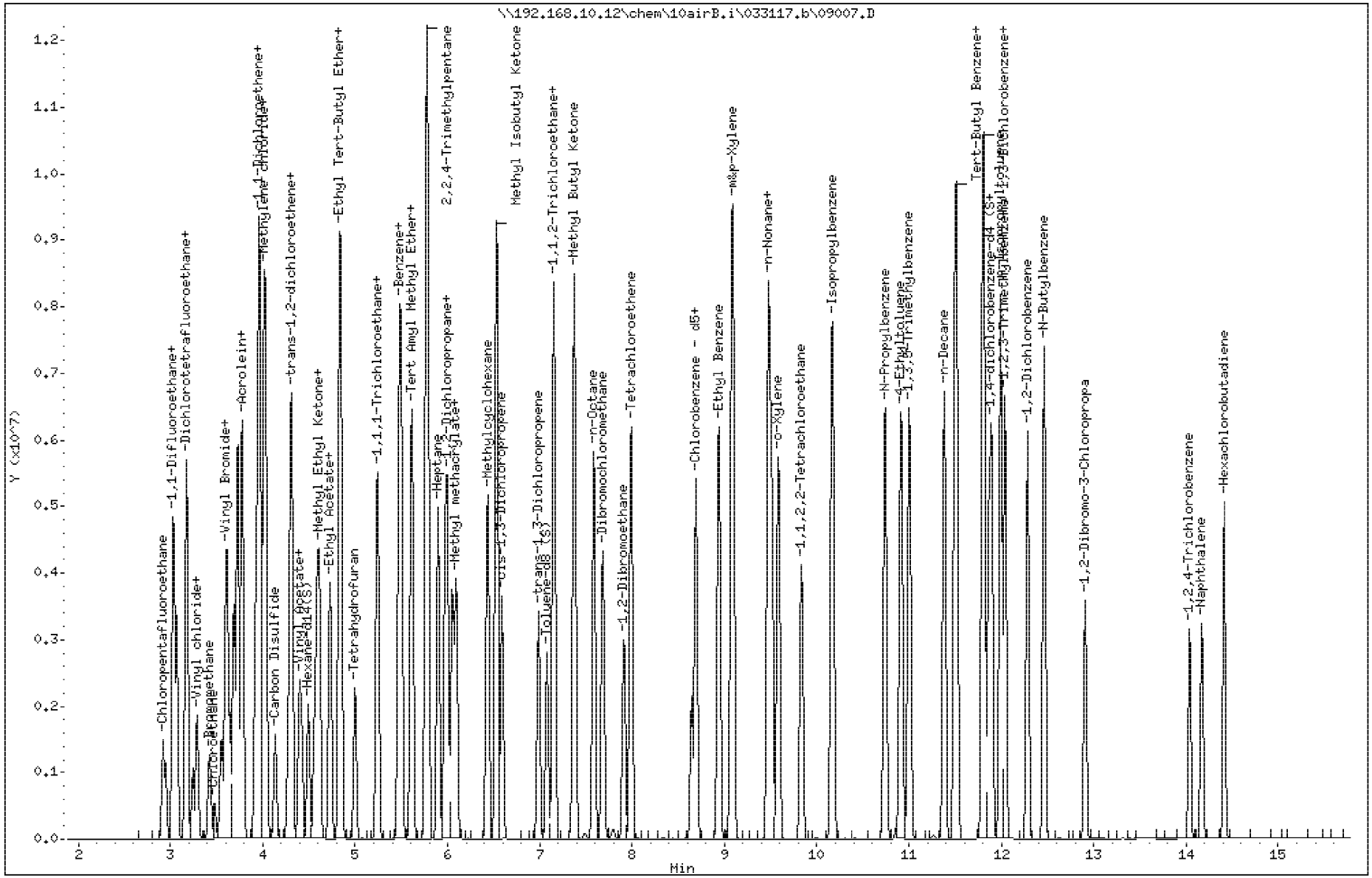
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1927964	-0.45
67 Chlorobenzene - d	1173864	704318	1643410	1224170	4.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.11
67 Chlorobenzene - d	8.64	8.31	8.97	8.65	0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

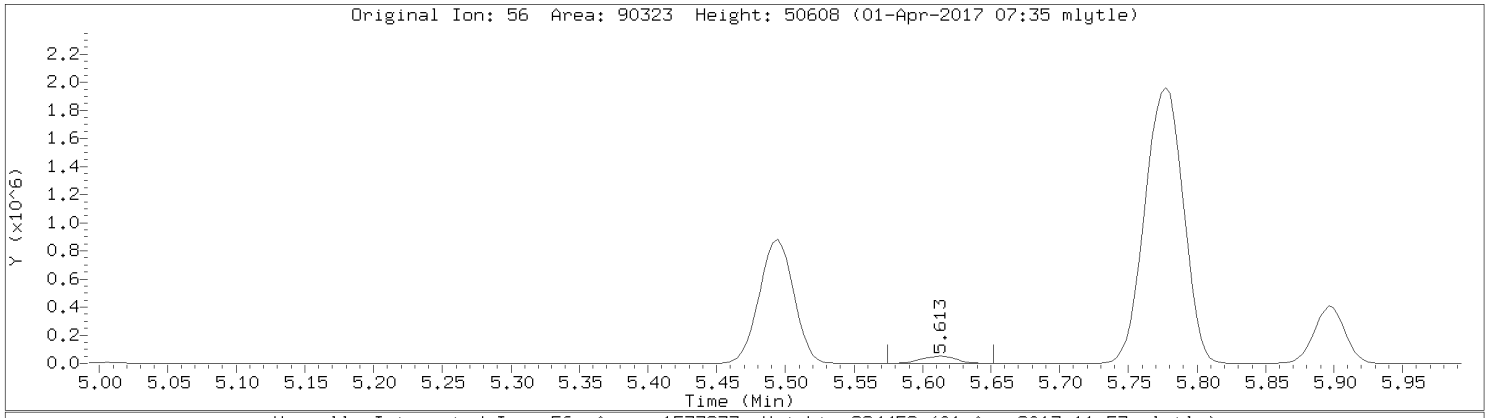
Data File: \\192.168.10.12\chem\10airB.i\033117.b\09007.D
Date : 31-MAR-2017 17:59
Client ID:
Sample Info:

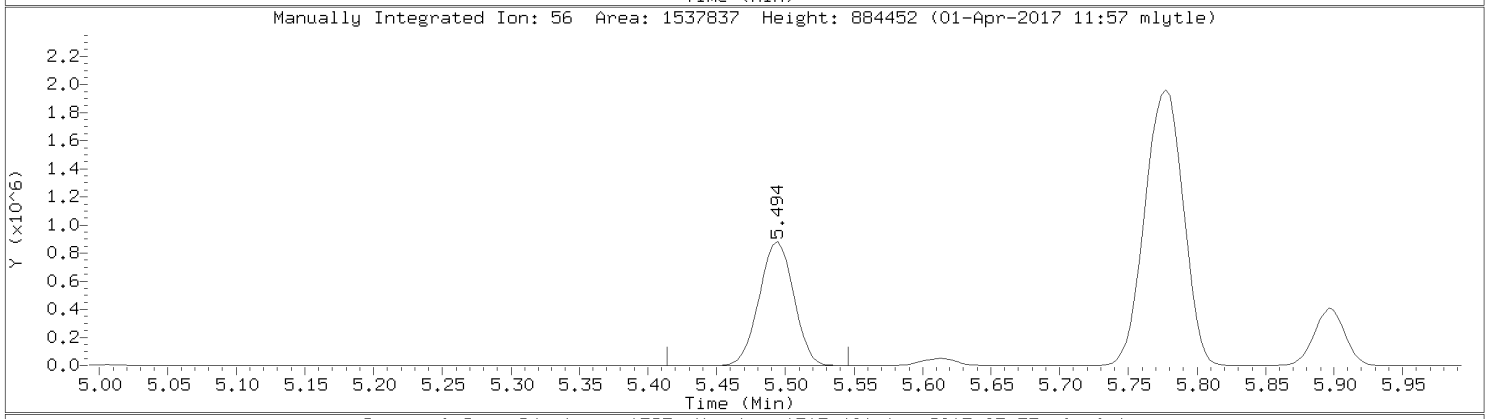
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

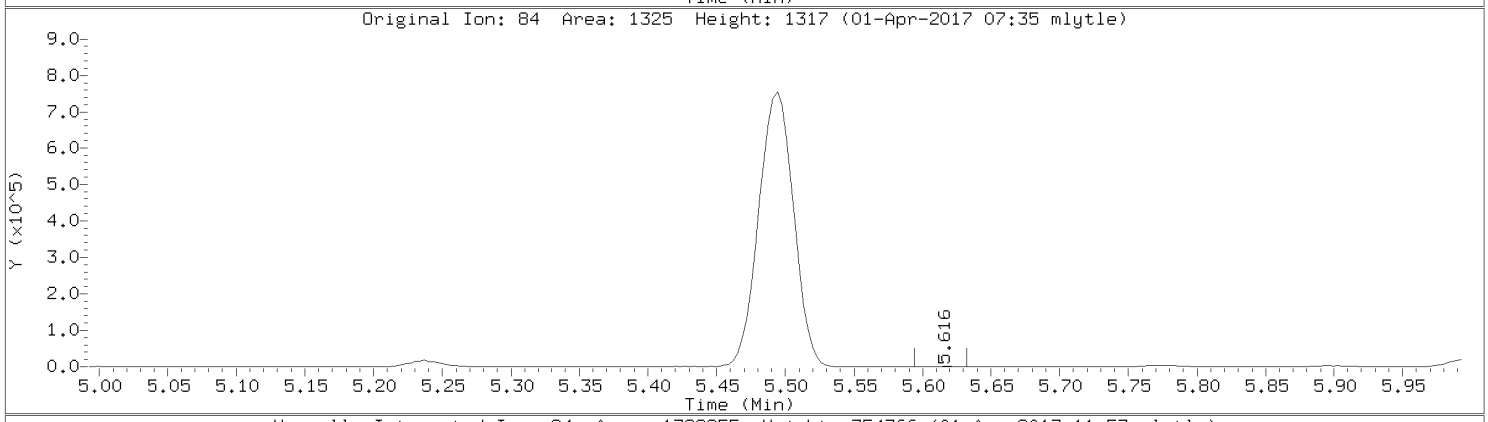


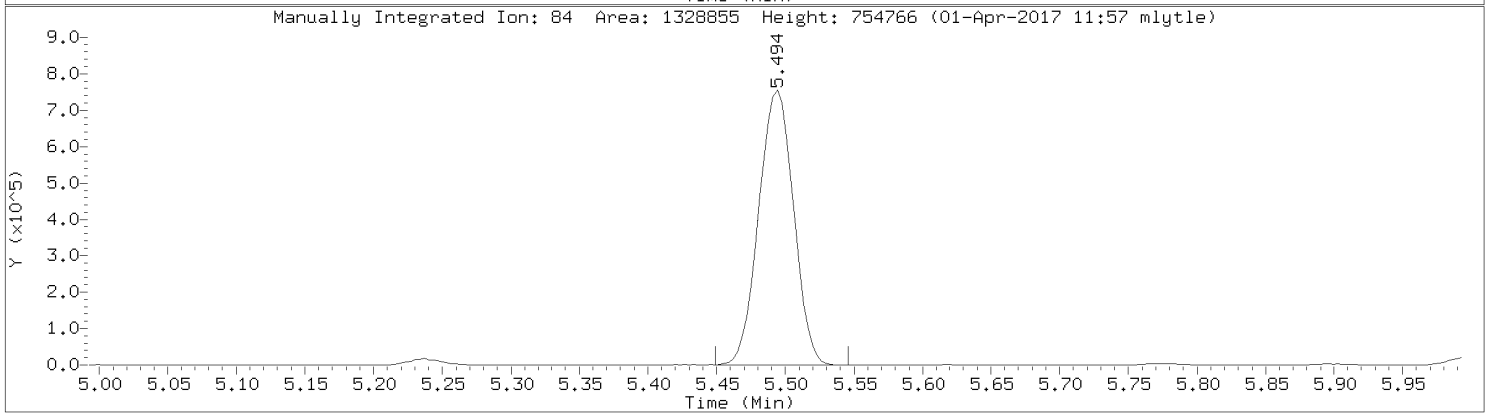
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6

Compound: Cyclohexane
CAS Number: 110-82-7

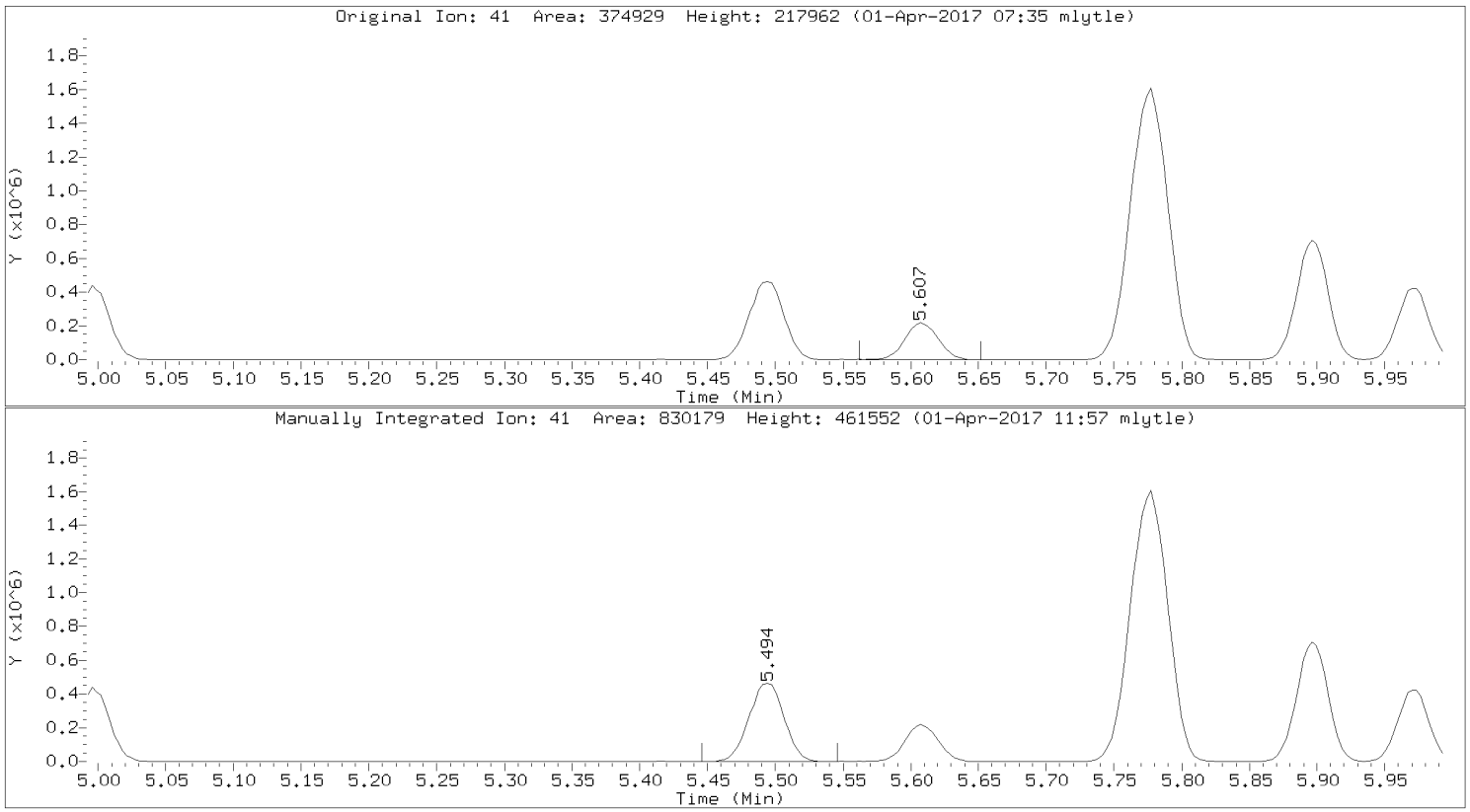






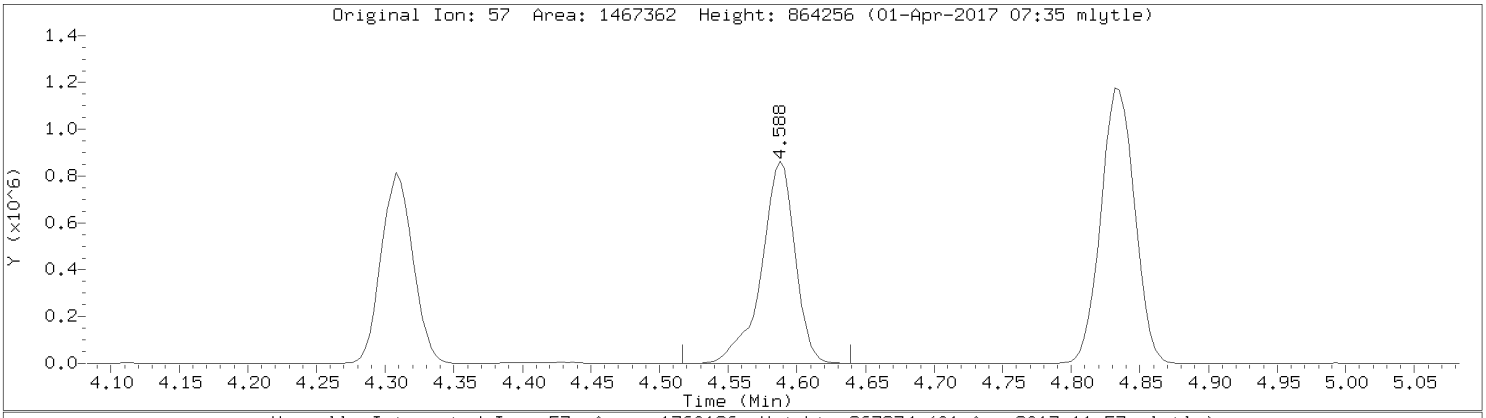


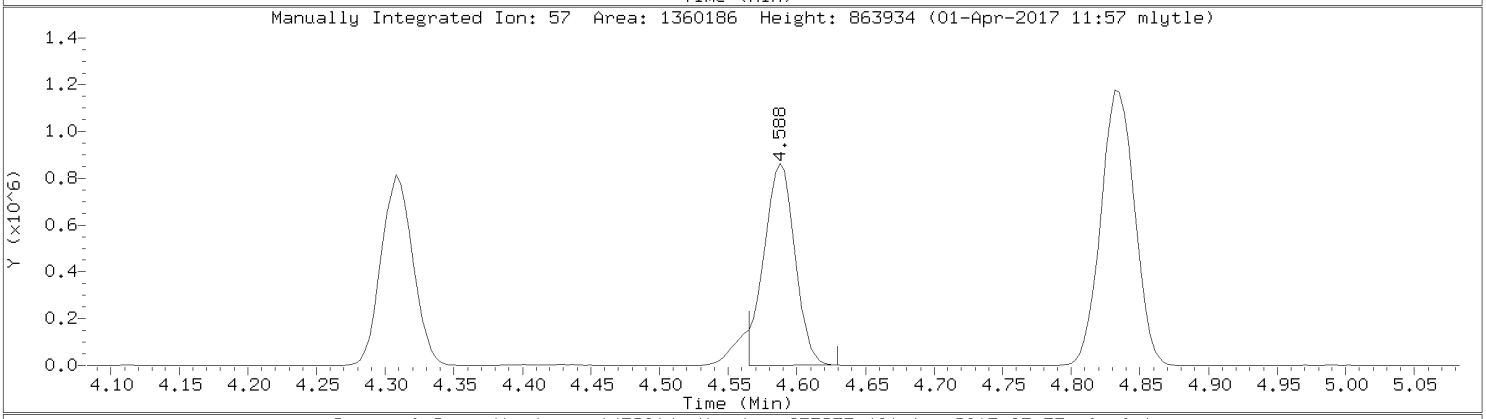
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6

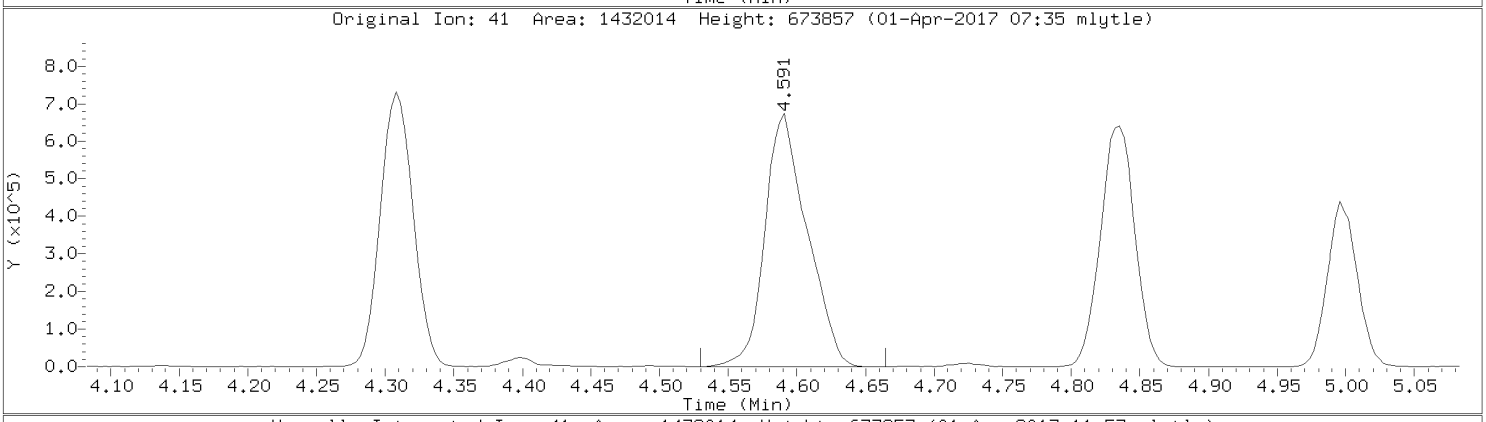


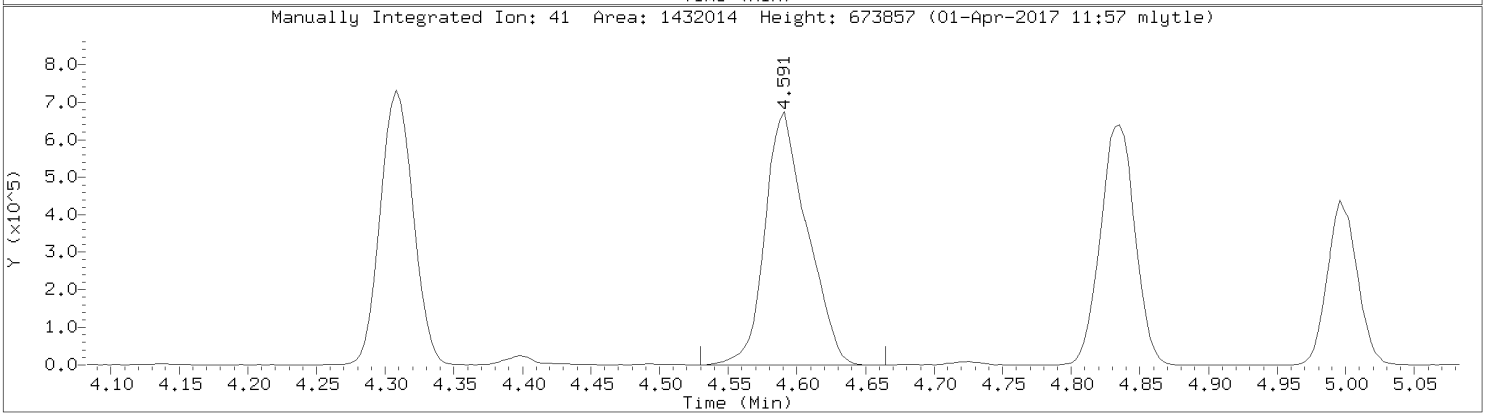
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6

Compound: n-Hexane
CAS Number: 110-54-3

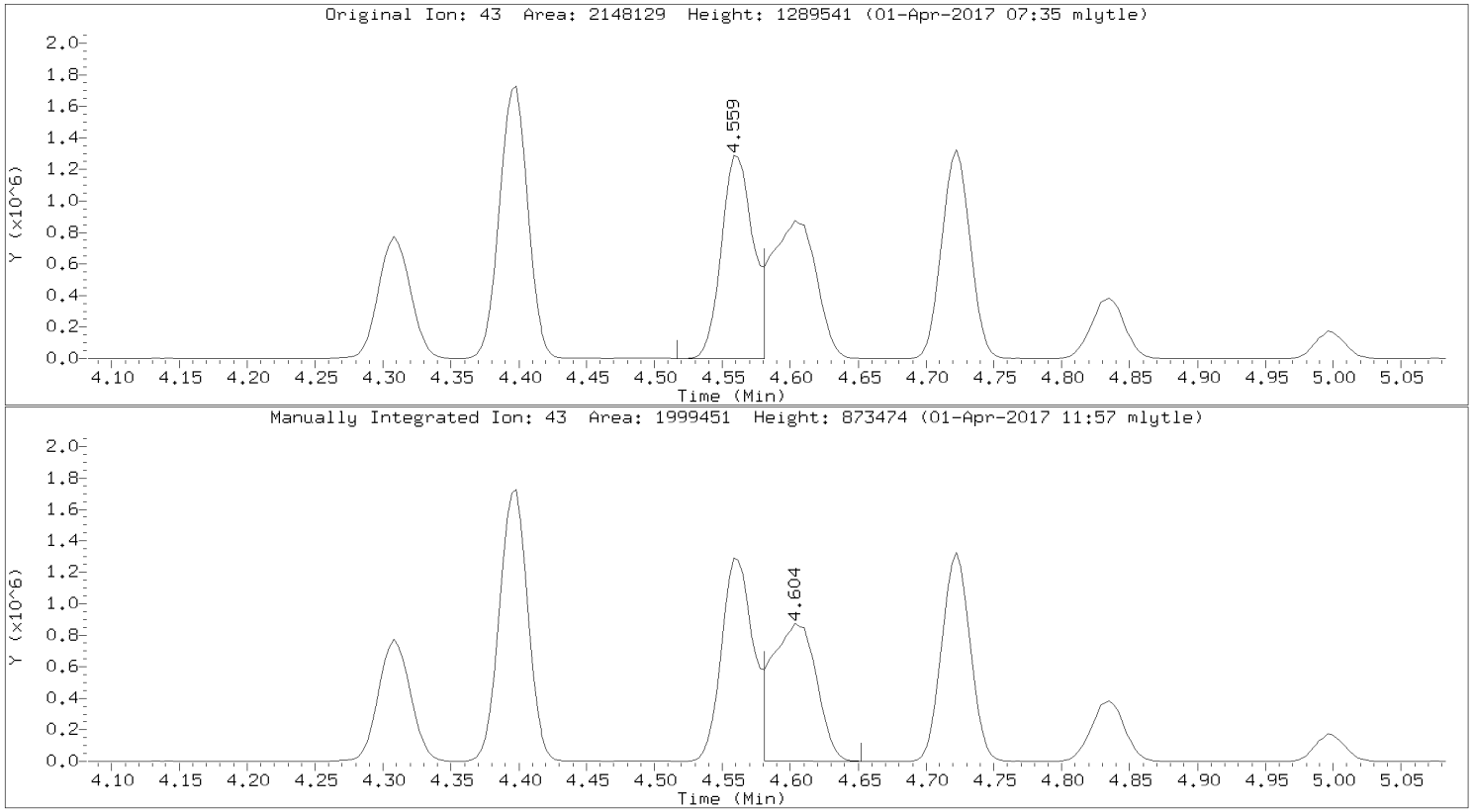






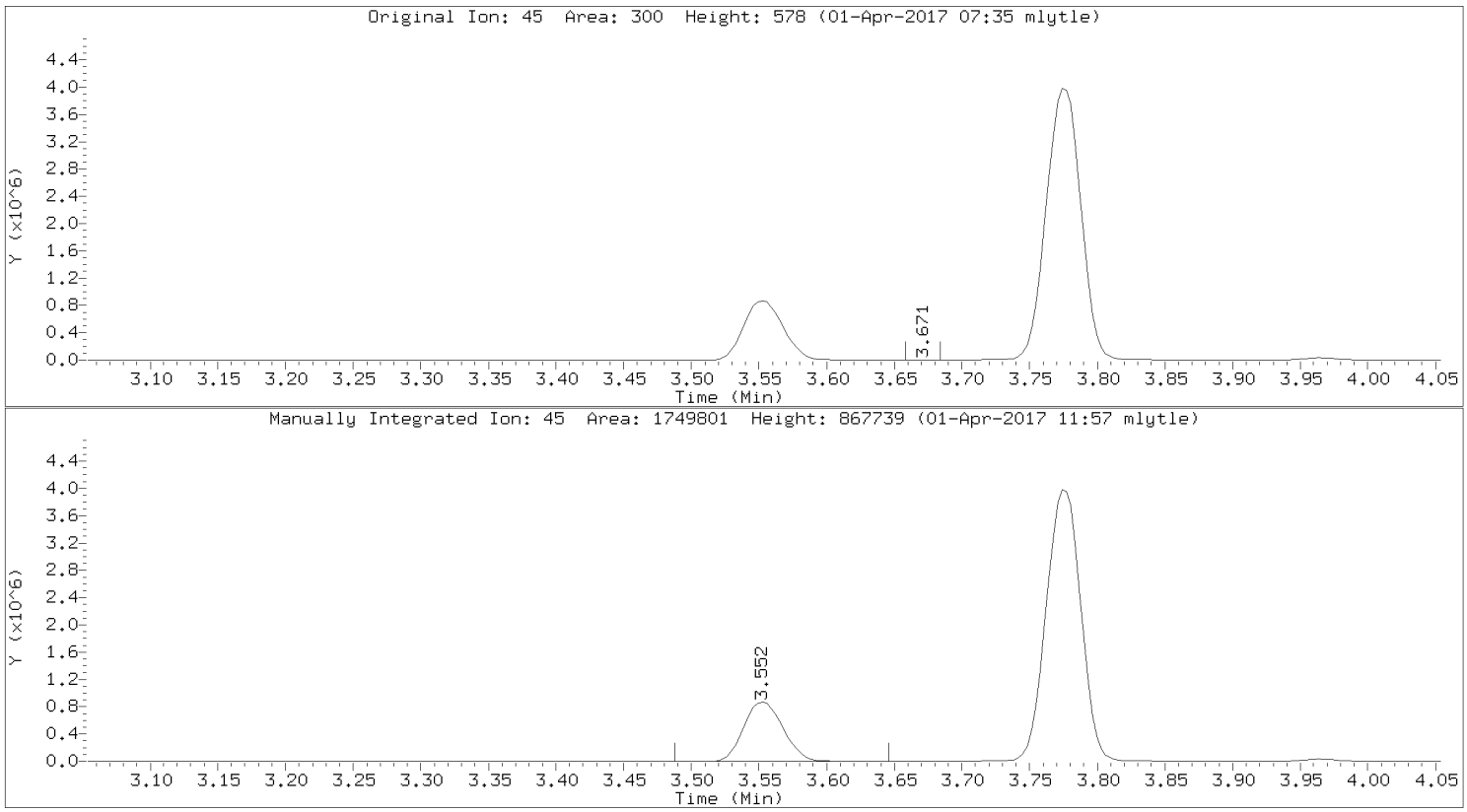


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6



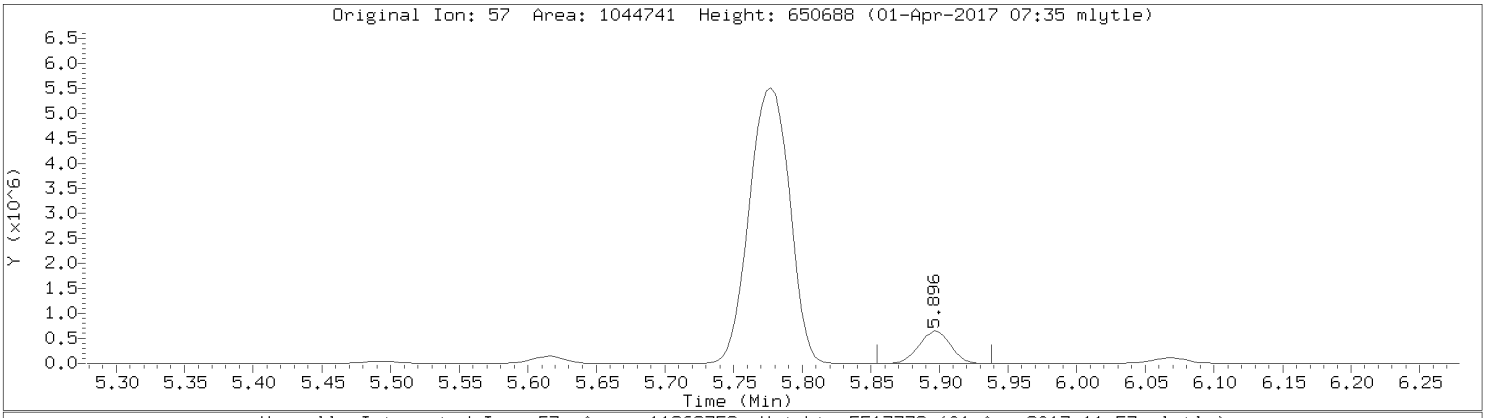
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6

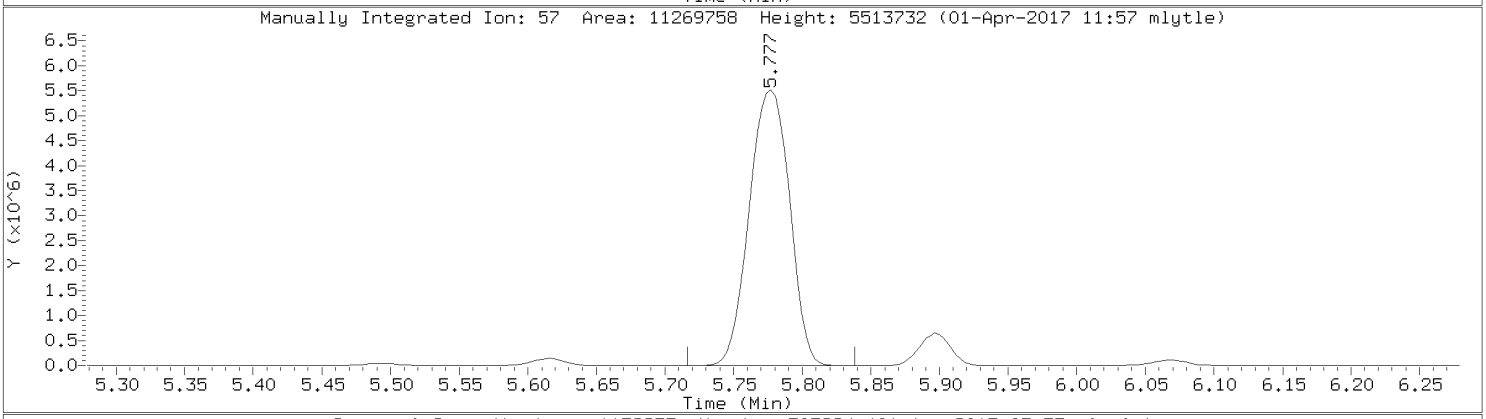
Compound: Ethanol
CAS Number: 64-17-5

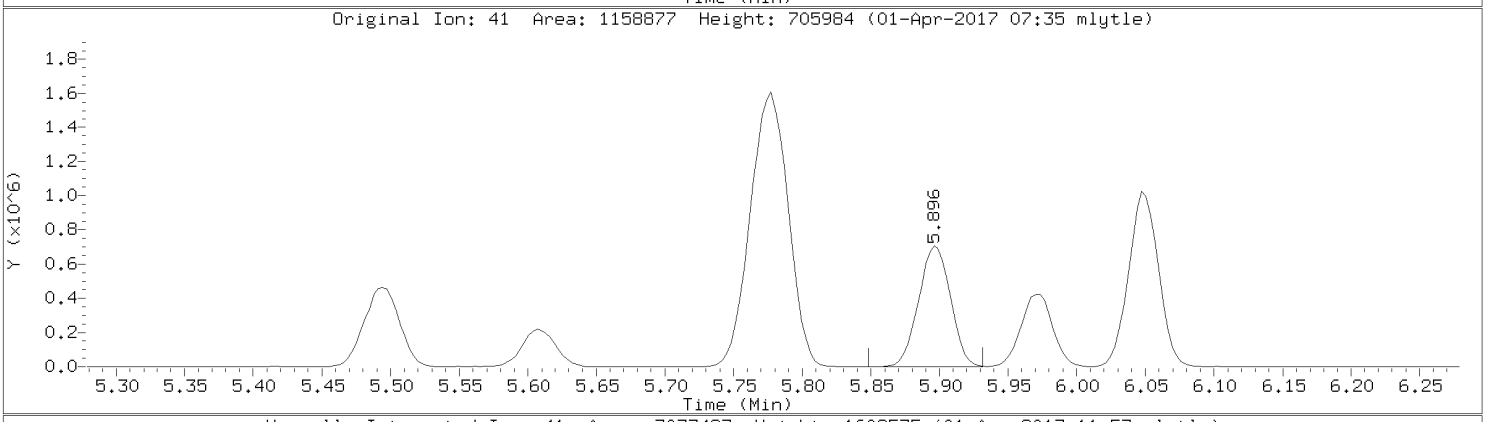


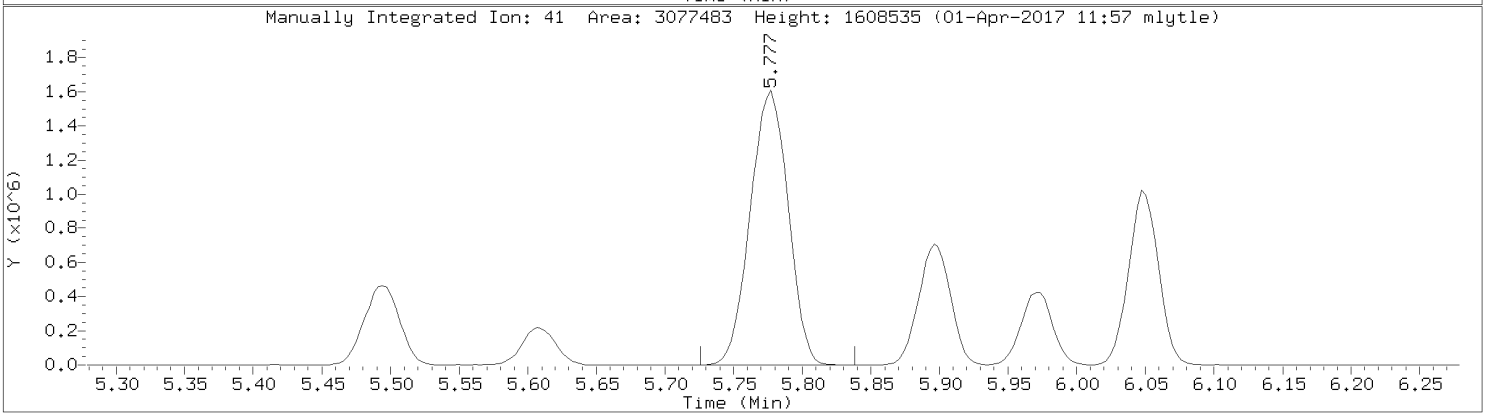
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

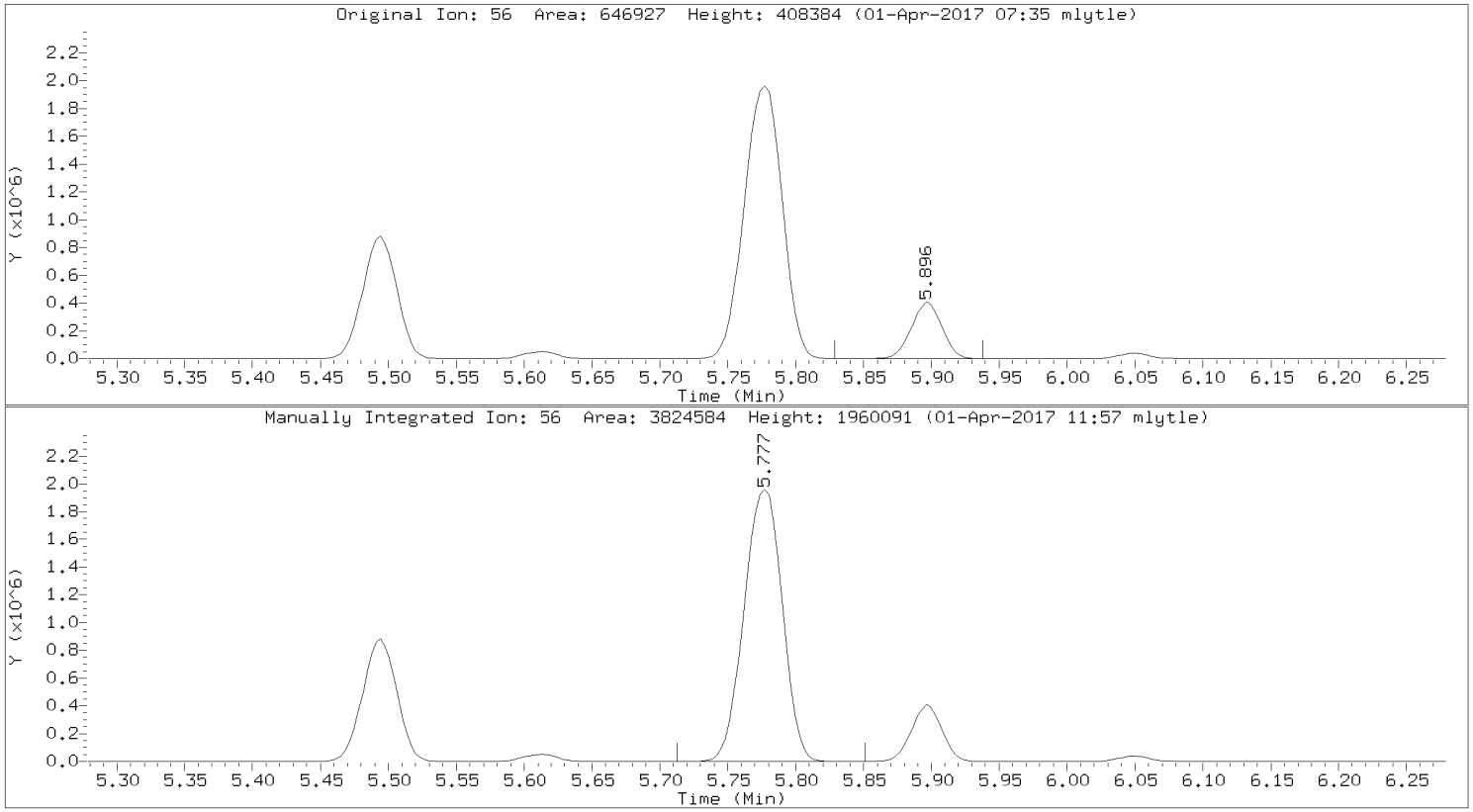






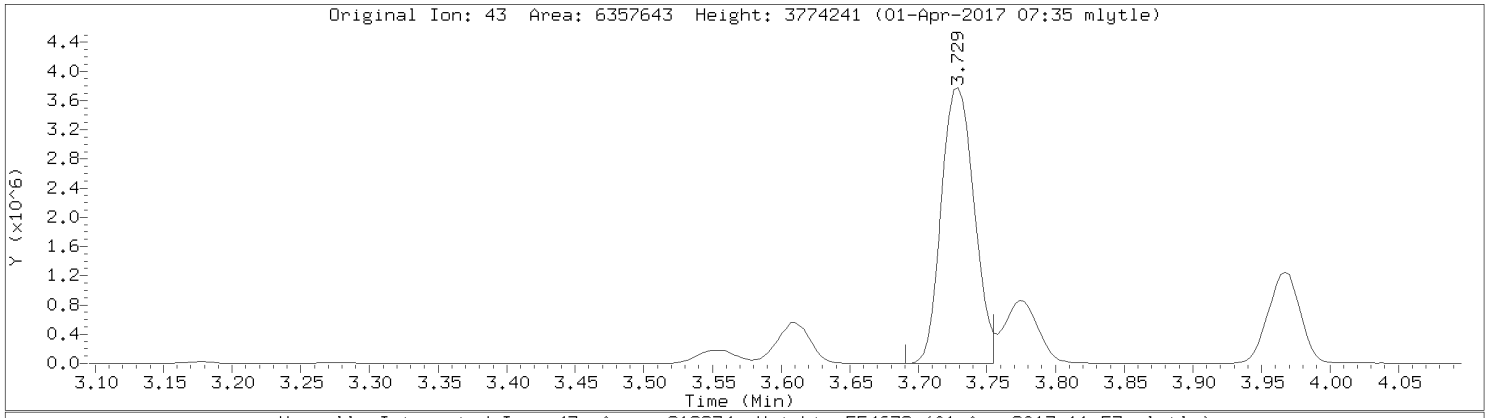


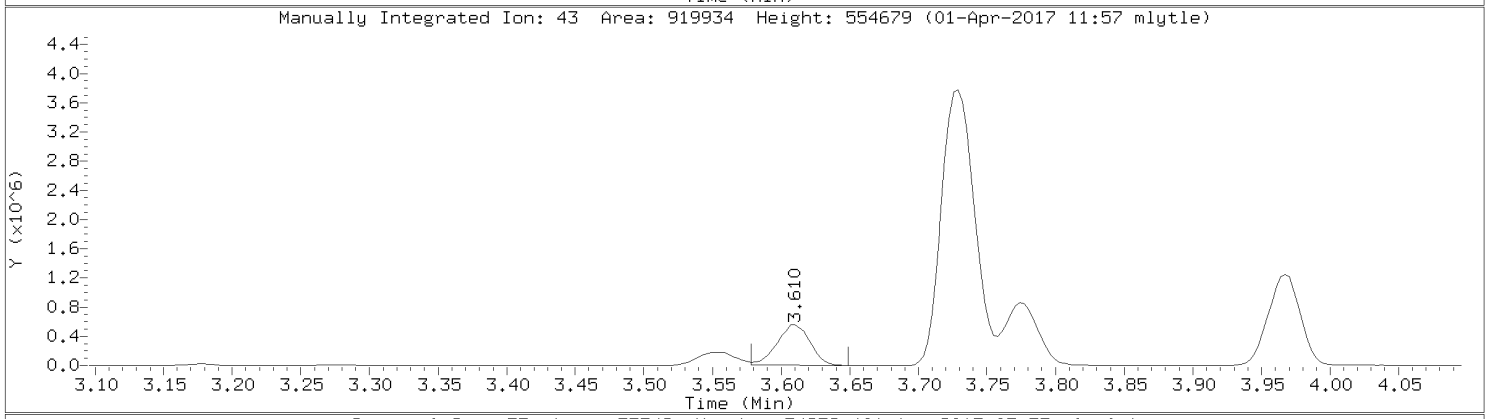
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6

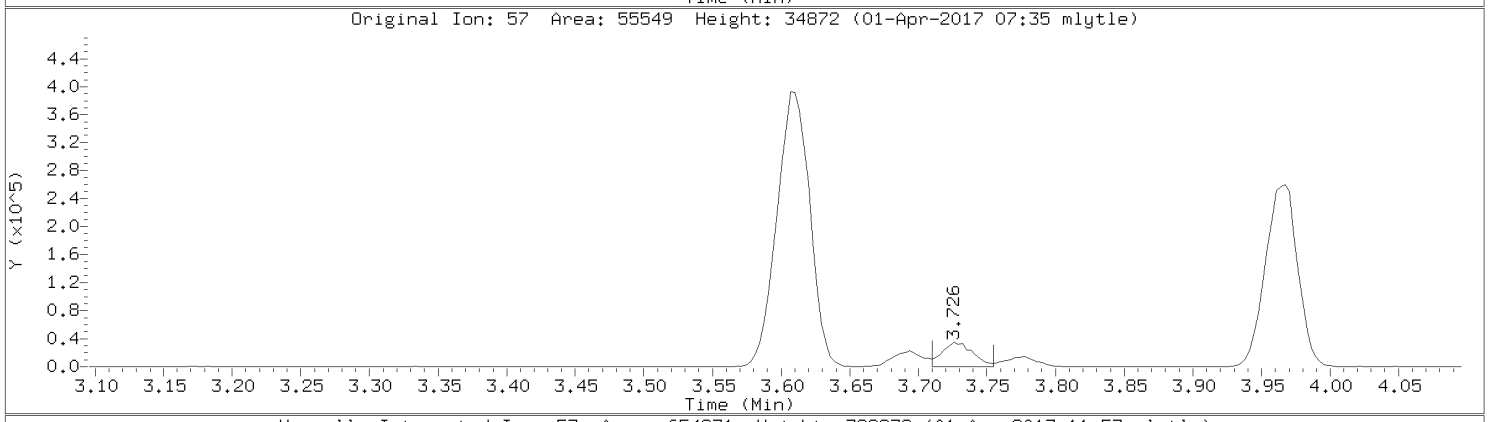


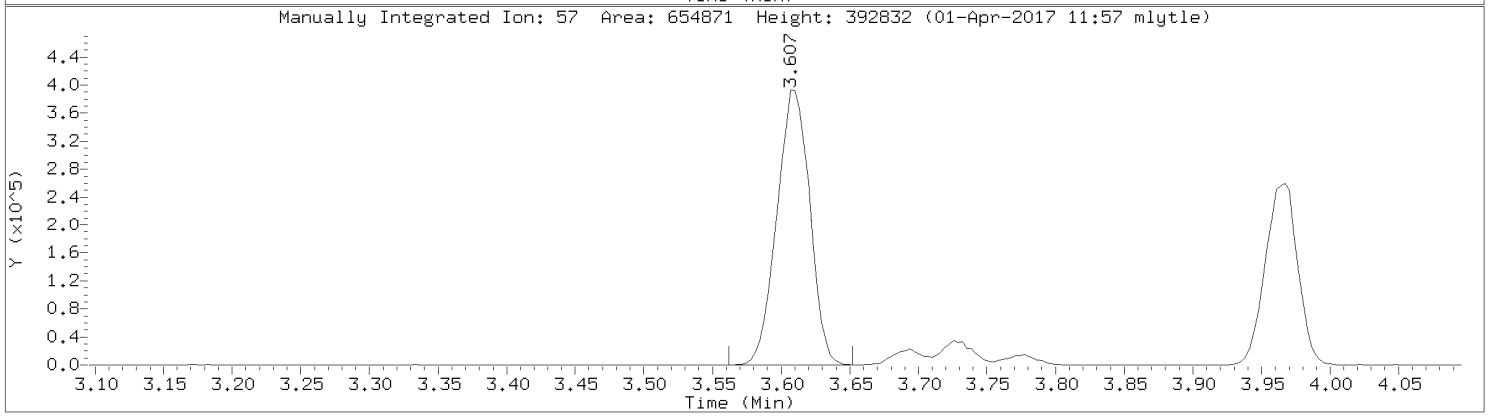
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6

Compound: Isopentane
CAS Number: 78-78-4

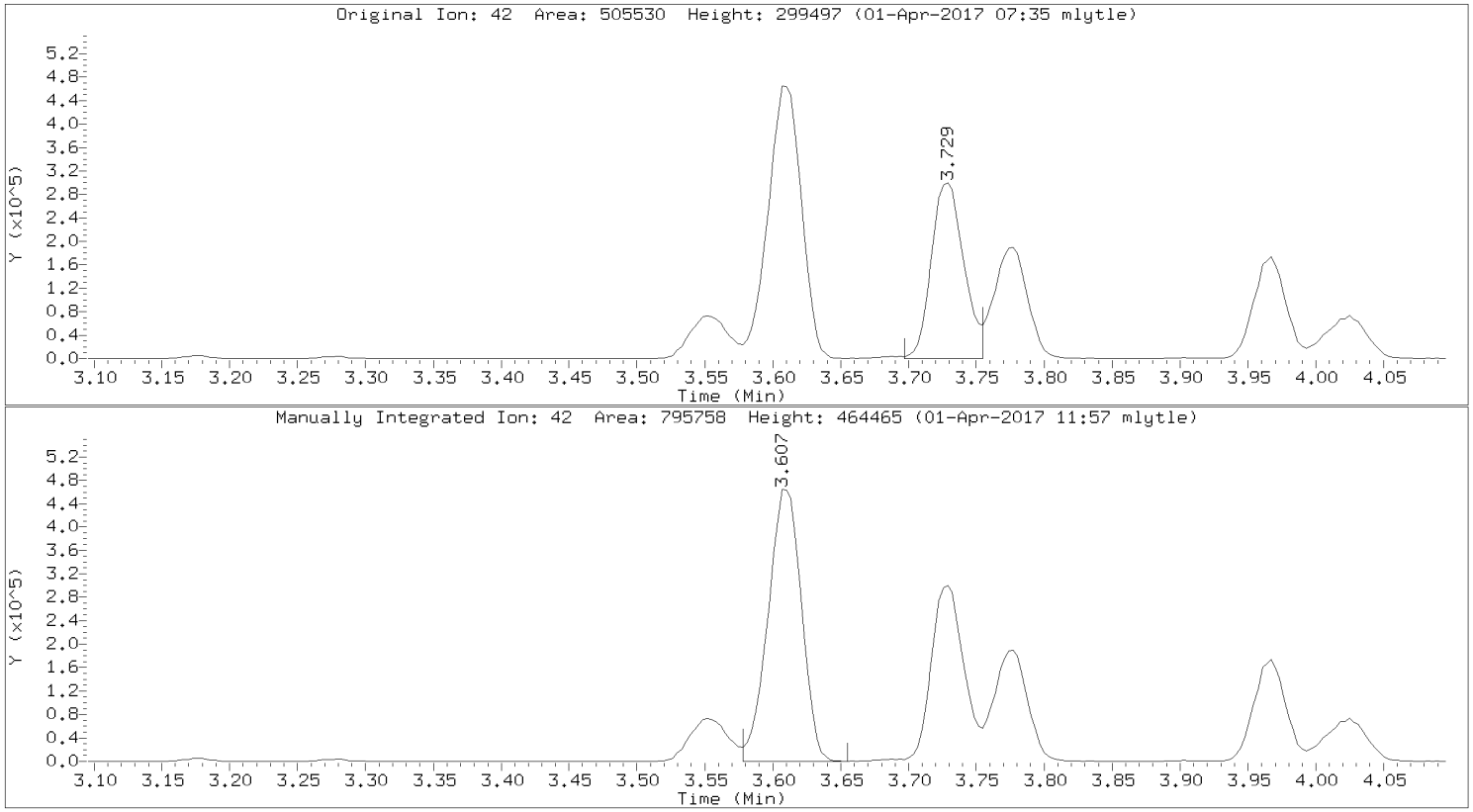






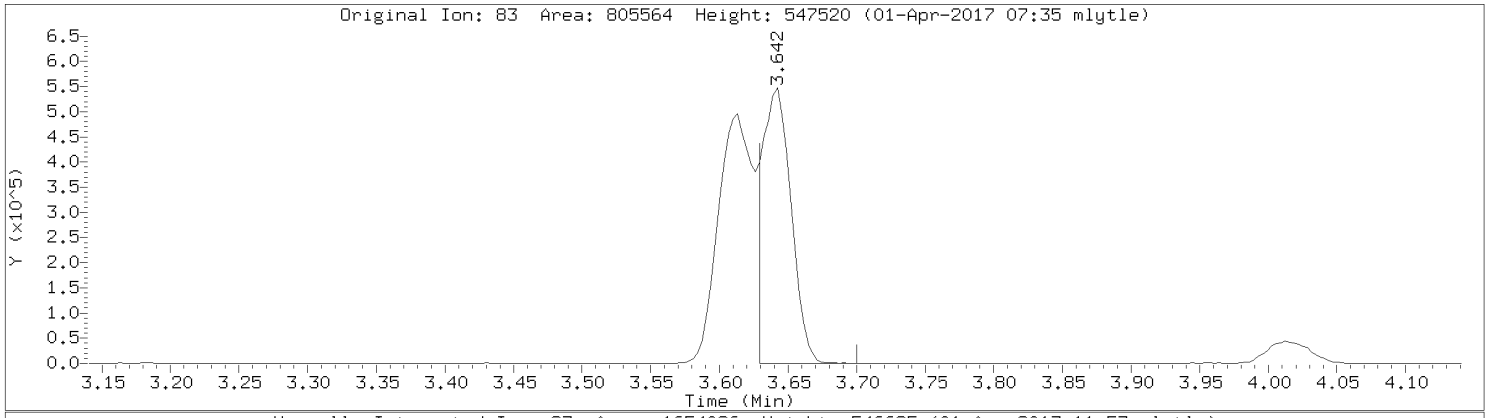


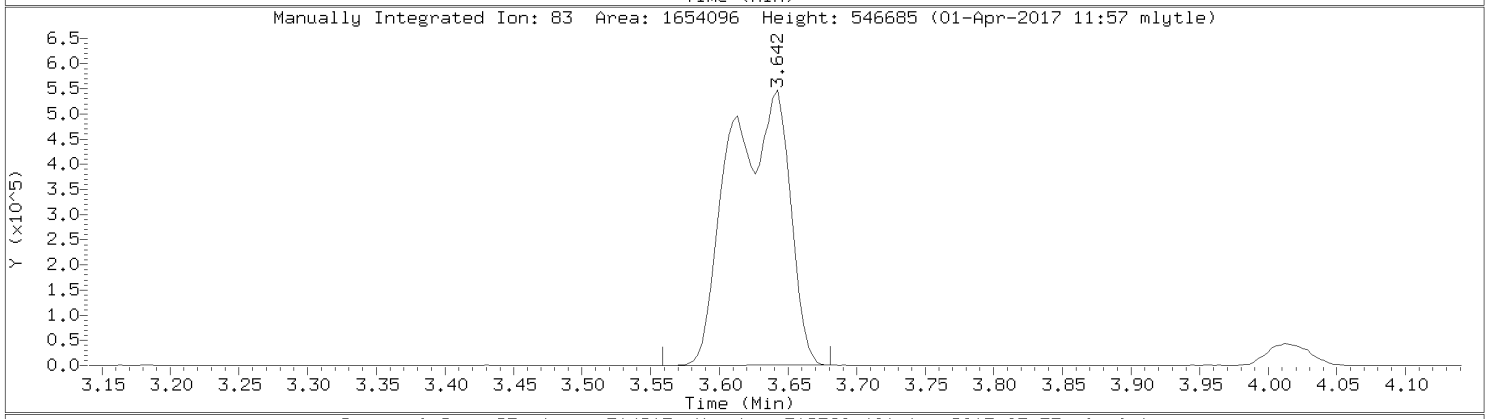
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6

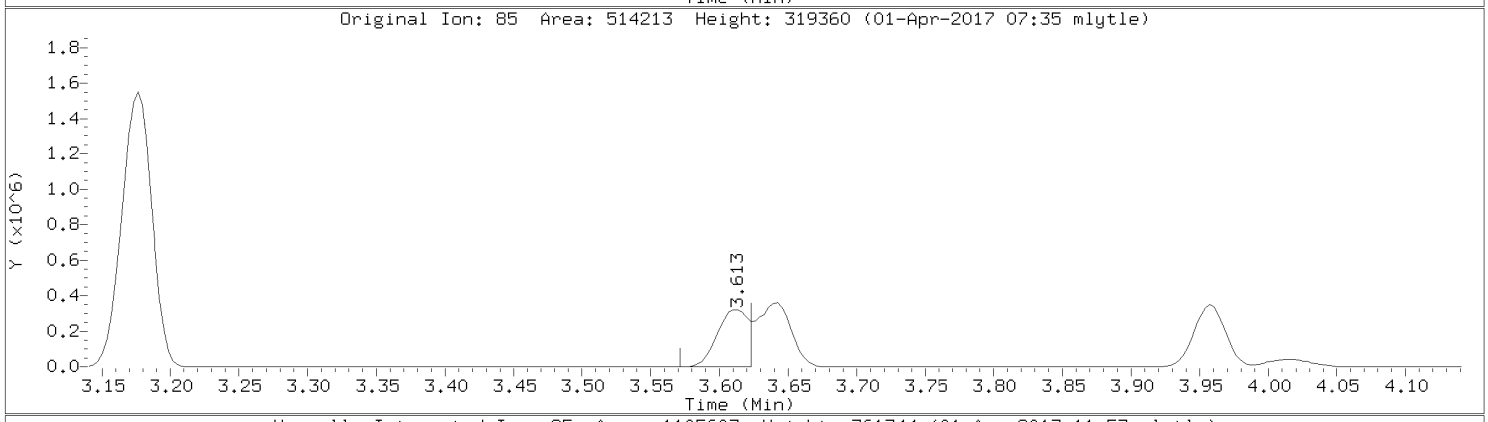


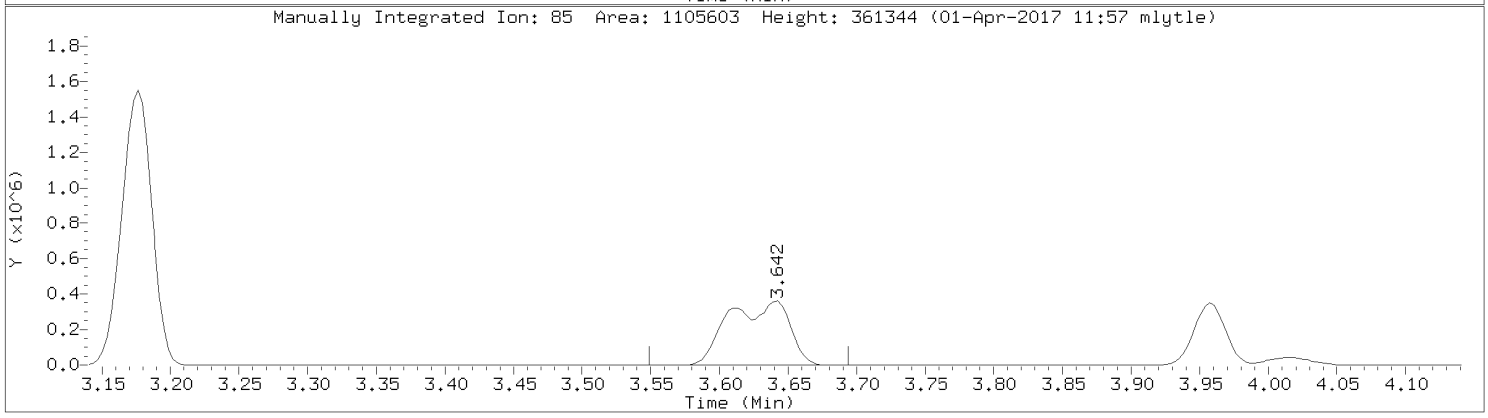
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6

Compound: Freon 123
CAS Number: 306-83-2

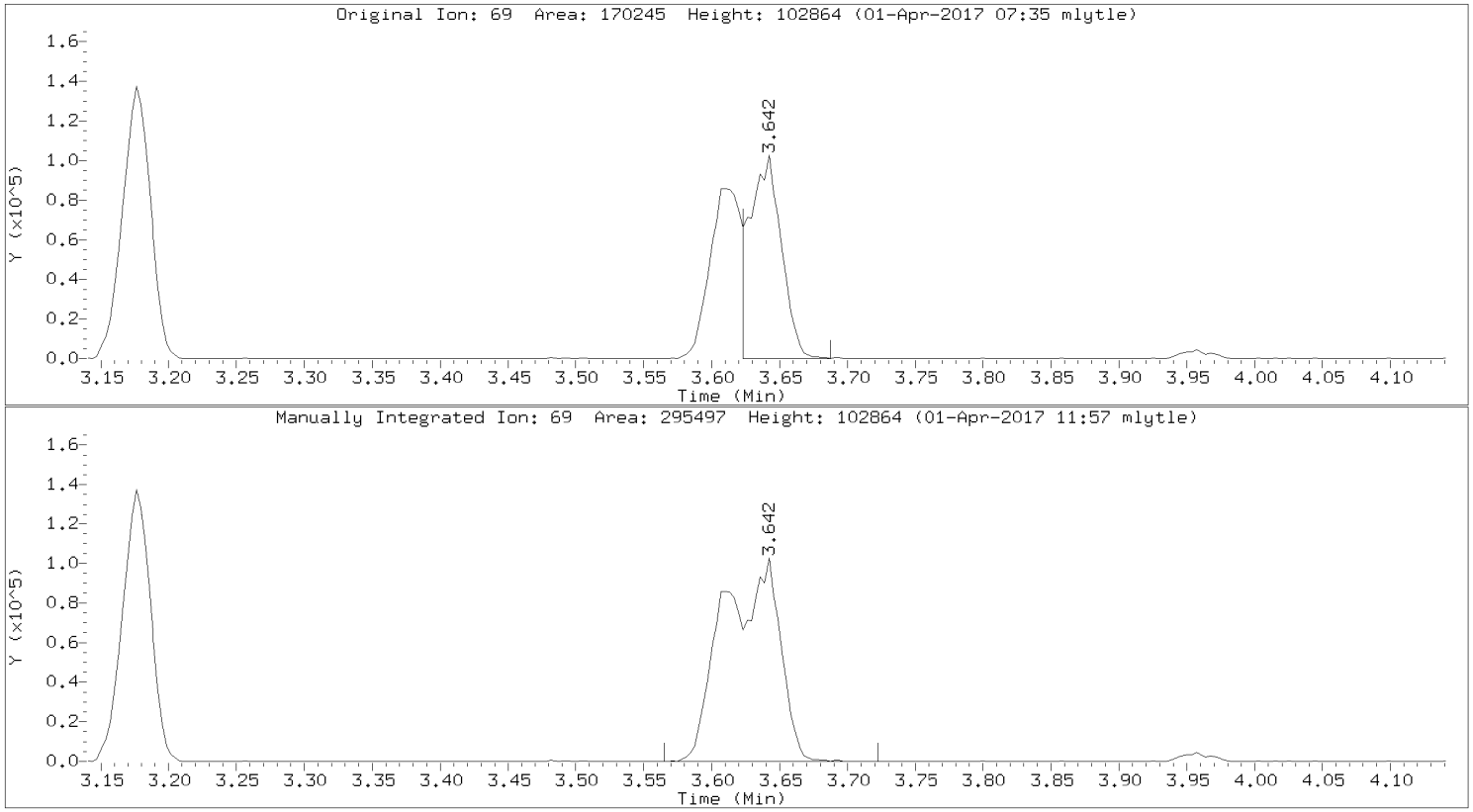








Data File: \\192.168.10.12\chem\10airB.i\033117.b/09007.D
Injection Date: 31-MAR-2017 17:59
Instrument: 10airB.i
Lab Sample ID: CAL6



Data File: \\192.168.10.12\chem\10airB.i\033117.b\09008.D
Report Date: 01-Apr-2017 11:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033117.b\09008.D
Lab Smp Id: CAL7
Inj Date : 31-MAR-2017 18:28
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Meth Date : 01-Apr-2017 11:58 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 17:59 Cal File: 09007.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.909	2.909	(0.518)	387322	30.0000	10.2
2	1,1-Difluoroethane	65	2.996	2.996	(0.533)	871852	30.0000	29.6
3	Chlorodifluoromethane	67	2.993	2.993	(0.533)	363247	30.0000	27.5(Q)
4	Propylene	41	2.993	2.993	(0.533)	1064517	30.0000	28.5
5	Dichlorodifluoromethane	85	3.028	3.028	(0.539)	3679371	30.0000	26.5
6	Chloromethane	50	3.134	3.134	(0.558)	1802855	30.0000	29.6
7	Dichlorotetrafluoroethane	85	3.153	3.153	(0.561)	3418628	30.0000	28.3
8	Vinyl chloride	62	3.218	3.218	(0.573)	1473833	30.0000	30.8(A)
9	1,3-Butadiene	54	3.263	3.263	(0.581)	1145997	30.0000	29.9
10	Bromomethane	94	3.401	3.401	(0.605)	1111215	30.0000	30.3(A)
11	Chloroethane	64	3.459	3.459	(0.616)	635724	30.0000	31.2(A)
12	Ethanol	45	3.552	3.552	(0.632)	2533139	150.000	145(M)
13	Vinyl Bromide	106	3.578	3.578	(0.637)	1030508	30.0000	29.1
14	Isopentane	43	3.594	3.594	(0.640)	1436533	30.0000	28.5(M)
15	Freon 123	83	3.639	3.639	(0.648)	2417597	30.0000	29.0(M)
16	Trichlorofluoromethane	101	3.671	3.671	(0.653)	2749894	30.0000	29.2
17	Acrolein	56	3.690	3.690	(0.657)	1244173	75.0000	77.4(A)
18	Acetone	43	3.726	3.726	(0.663)	8910902	150.000	132
19	Isopropyl Alcohol	45	3.777	3.777	(0.672)	9807021	150.000	129
20	1,1-Dichloroethene	61	3.909	3.909	(0.696)	1982116	30.0000	29.4
21	Acrylonitrile	53	3.935	3.935	(0.700)	2390491	75.0000	66.5
22	Freon 113	101	3.948	3.948	(0.702)	1989126	30.0000	25.6
23	Methyl Acetate	43	3.967	3.967	(0.706)	2861392	30.0000	25.4

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09008.D
Report Date: 01-Apr-2017 11:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.967	3.967	(0.706)	5833009	75.0000	63.0
	25 Methylene chloride	49	4.009	4.009	(0.713)	6683221	150.000	124
	26 Allyl Chloride	76	4.021	4.021	(0.716)	994608	75.0000	77.9(A)
	27 Carbon Disulfide	76	4.124	4.124	(0.734)	2481571	30.0000	29.9
	28 trans-1,2-dichloroethene	96	4.282	4.282	(0.762)	1040371	30.0000	28.1
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.766)	6511033	75.0000	67.6
	30 Vinyl Acetate	43	4.394	4.394	(0.782)	3650452	30.0000	30.6(A)
	31 1,1-Dichloroethane	63	4.417	4.417	(0.786)	2148102	30.0000	29.7(H)
$	32 Hexane-d14(S)	66	4.488	4.488	(0.799)	727786	10.0000	10.2
	33 Methyl Ethyl Ketone	72	4.558	4.558	(0.811)	531466	30.0000	27.9(Q)
	34 n-Hexane	57	4.581	4.581	(0.815)	2026254	30.0000	28.0(QM)
	35 Di-isopropyl Ether	45	4.607	4.607	(0.820)	4231404	30.0000	27.8
	36 Ethyl Acetate	43	4.722	4.722	(0.840)	2783897	30.0000	27.5
	37 cis-1,2-Dichloroethene	96	4.732	4.732	(0.842)	1132837	30.0000	27.7
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.860)	8297948	75.0000	58.2
	39 Chloroform	83	4.851	4.851	(0.863)	1901694	30.0000	24.9
	40 Tetrahydrofuran	42	4.996	4.996	(0.889)	1752325	30.0000	29.7
	41 1,1,1-Trichloroethane	97	5.237	5.237	(0.932)	2837768	30.0000	28.7
	42 1,2-Dichloroethane	62	5.247	5.247	(0.934)	2219580	30.0000	27.4
	43 Benzene	78	5.472	5.472	(0.974)	3870147	30.0000	27.2
	44 Carbon tetrachloride	117	5.491	5.491	(0.977)	2872774	30.0000	29.0
	45 Cyclohexane	56	5.491	5.491	(0.977)	2146062	30.0000	26.2(M)
	46 Tert Amyl Methyl Ether	73	5.610	5.610	(0.998)	3838355	30.0000	25.0
*	47 1,4-Difluorobenzene	114	5.619	5.619	(1.000)	1885490	10.0000	
	48 2,2,4-Trimethylpentane	57	5.777	5.777	(1.028)	14670652	75.0000	58.6(M)
	49 Heptane	43	5.896	5.896	(1.049)	2754032	30.0000	28.2
	50 1,2-Dichloropropane	63	5.973	5.973	(1.063)	1627529	30.0000	28.0
	51 Trichloroethene	130	5.996	5.996	(1.067)	2107939	30.0000	27.6
	52 Methyl methacrylate	69	6.050	6.050	(1.077)	1450375	30.0000	28.2
	53 1,4-Dioxane	88	6.070	6.070	(1.080)	986586	30.0000	28.1
	54 Bromodichloromethane	83	6.092	6.092	(1.084)	2902962	30.0000	29.0
	55 Methylcyclohexane	98	6.439	6.439	(1.146)	1230123	30.0000	30.3(A)
	56 Methyl Isobutyl Ketone	43	6.536	6.536	(1.163)	8428423	75.0000	63.2
	57 cis-1,3-Dichloropropene	75	6.594	6.594	(1.173)	2464946	30.0000	31.4(A)
	58 trans-1,3-Dichloropropene	75	6.989	6.989	(1.244)	2396635	30.0000	34.8(AH)
$	59 Toluene-d8 (S)	98	7.079	7.079	(1.260)	1682057	10.0000	10.6(H)
	60 1,1,2-Trichloroethane	97	7.150	7.150	(1.272)	1661248	30.0000	26.8
	61 Toluene	91	7.156	7.156	(1.273)	4805998	30.0000	26.3
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.853)	8188716	75.0000	66.0
	63 n-Octane	43	7.587	7.587	(0.877)	3661030	30.0000	26.0
	64 Dibromochloromethane	129	7.684	7.684	(0.888)	3401505	30.0000	28.5
	65 1,2-Dibromoethane	107	7.912	7.912	(0.915)	2957620	30.0000	27.0
	66 Tetrachloroethene	166	7.992	7.992	(0.924)	2719366	30.0000	24.9
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	1234715	10.0000	
	68 Chlorobenzene	112	8.690	8.690	(1.005)	4413197	30.0000	26.0
	69 Ethyl Benzene	91	8.941	8.941	(1.034)	6699619	30.0000	25.5
	70 m&p-Xylene	91	9.086	9.086	(1.051)	9347767	60.0000	47.2
	71 n-Nonane	43	9.471	9.471	(1.095)	3031716	30.0000	23.5
	72 Bromoform	173	9.487	9.487	(1.097)	2758132	30.0000	30.6(A)
	73 Styrene	104	9.513	9.513	(1.100)	3930310	30.0000	26.4
	74 o-Xylene	91	9.584	9.584	(1.108)	5083373	30.0000	24.6
	75 1,1,2,2-Tetrachloroethane	83	9.835	9.835	(1.137)	3184524	30.0000	27.3
	76 Isopropylbenzene	105	10.166	10.166	(1.175)	7074507	30.0000	24.5
	77 N-Propylbenzene	91	10.745	10.745	(1.242)	8190736	30.0000	27.5

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09008.D
Report Date: 01-Apr-2017 11:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.262)	7090421	30.0000	28.2
79	1,3,5-Trimethylbenzene	105	11.005	11.005	(1.273)	5899616	30.0000	26.3
80	n-Decane	57	11.388	11.388	(2.026)	3881997	30.0000	32.5(A)
81	Tert-Butyl Benzene	119	11.503	11.503	(1.330)	5858996	30.0000	24.9
82	1,2,4-Trimethylbenzene	105	11.520	11.520	(1.332)	5100575	30.0000	25.2
83	1,3-Dichlorobenzene	146	11.799	11.799	(1.364)	3502318	30.0000	29.3
84	Sec- Butylbenzene	105	11.812	11.812	(1.366)	7145978	30.0000	24.4
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.371)	691490	10.0000	12.4
86	Benzyl Chloride	91	11.873	11.873	(1.373)	3922939	30.0000	29.8
87	1,4-Dichlorobenzene	146	11.896	11.896	(1.375)	3672480	30.0000	31.8(A)
88	p-Isopropyltoluene	119	11.995	11.995	(1.387)	6577508	30.0000	26.7
89	1,2,3-Trimethylbenzene	105	12.040	12.040	(1.392)	5253332	30.0000	26.1
90	1,2-Dichlorobenzene	146	12.285	12.285	(1.420)	3495744	30.0000	31.3(A)
91	N-Butylbenzene	91	12.465	12.465	(1.441)	5424470	30.0000	31.0(A)
92	1,2-Dibromo-3-Chloropropane	157	12.909	12.909	(1.493)	1374980	30.0000	30.1(A)
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.623)	1338595	30.0000	29.9
94	Naphthalene	128	14.172	14.172	(1.639)	3430223	30.0000	30.4(A)
95	Hexachlorobutadiene	225	14.417	14.417	(1.667)	1268941	30.0000	29.7

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09008.D
Report Date: 01-Apr-2017 11:59

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09008.D
Lab Smp Id: CAL7
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Misc Info:

Calibration Date: 31-MAR-2017
Calibration Time: 17:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

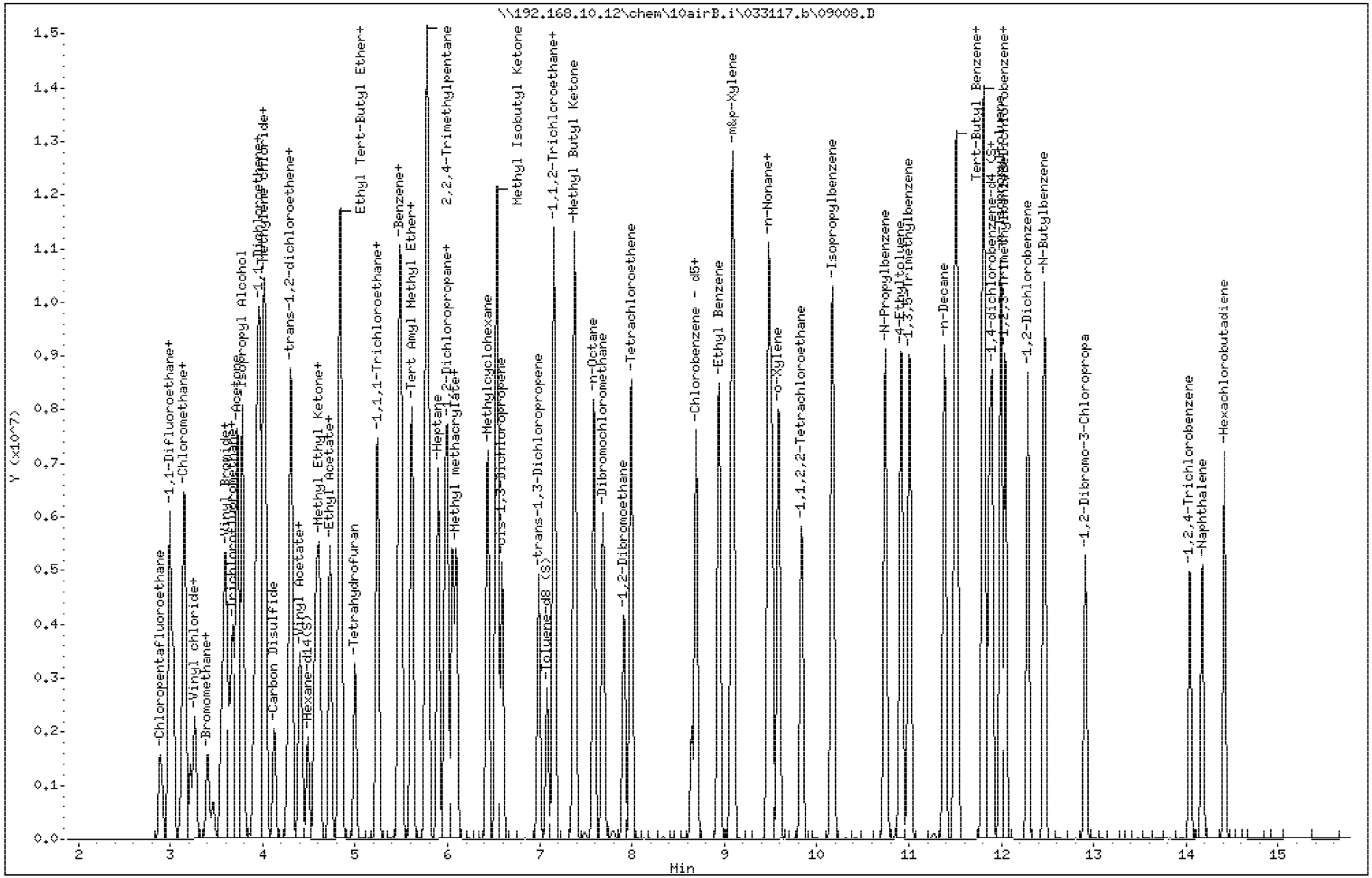
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1885490	-2.65
67 Chlorobenzene - d	1173864	704318	1643410	1234715	5.18

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.17
67 Chlorobenzene - d	8.64	8.31	8.97	8.65	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

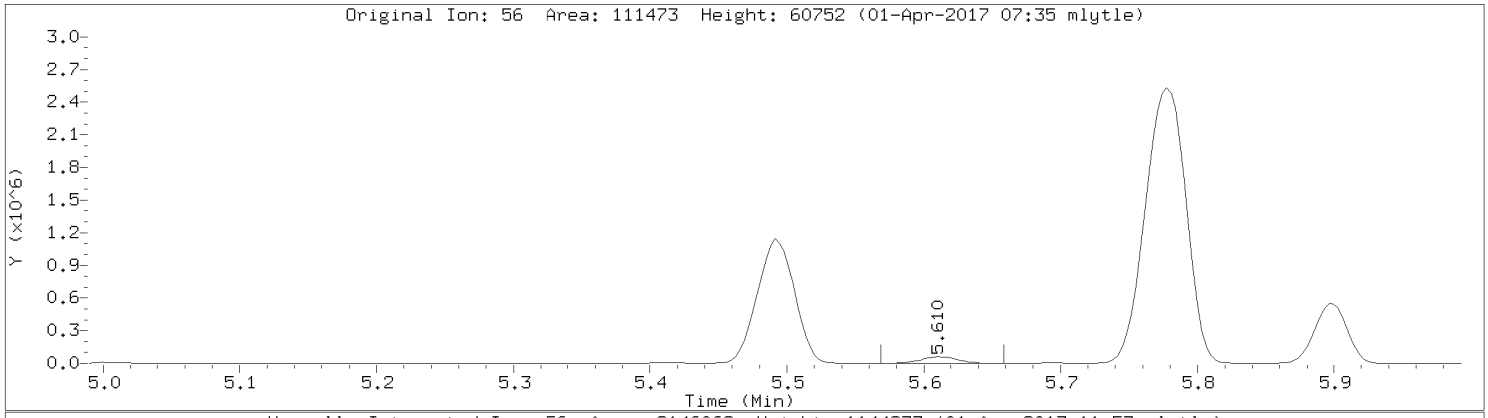
Data File: \\192.168.10.12\chem\10airB.i\033117.b\09008.D
Date : 31-MAR-2017 18:28
Client ID:
Sample Info:

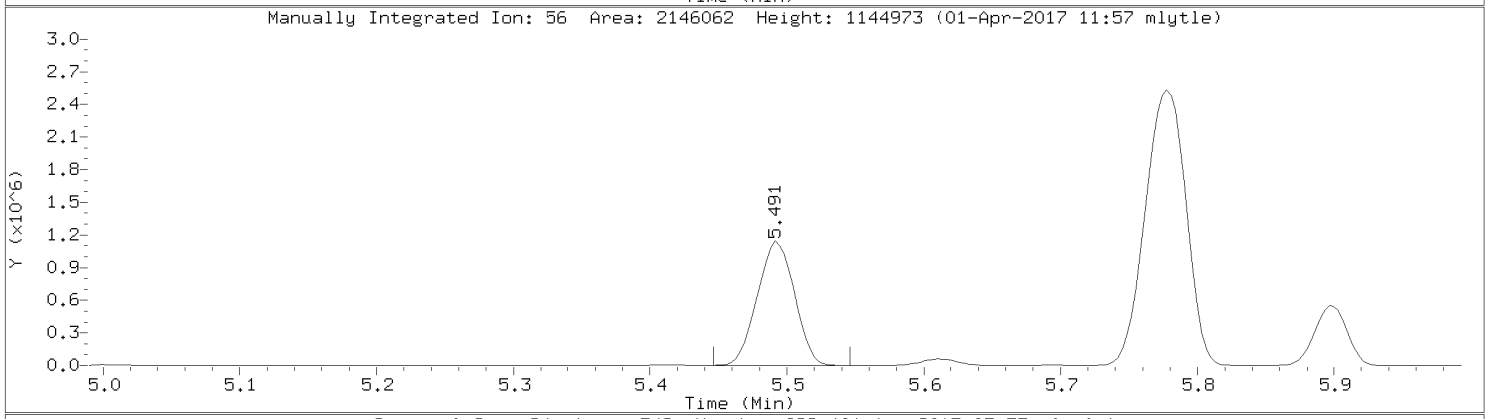
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

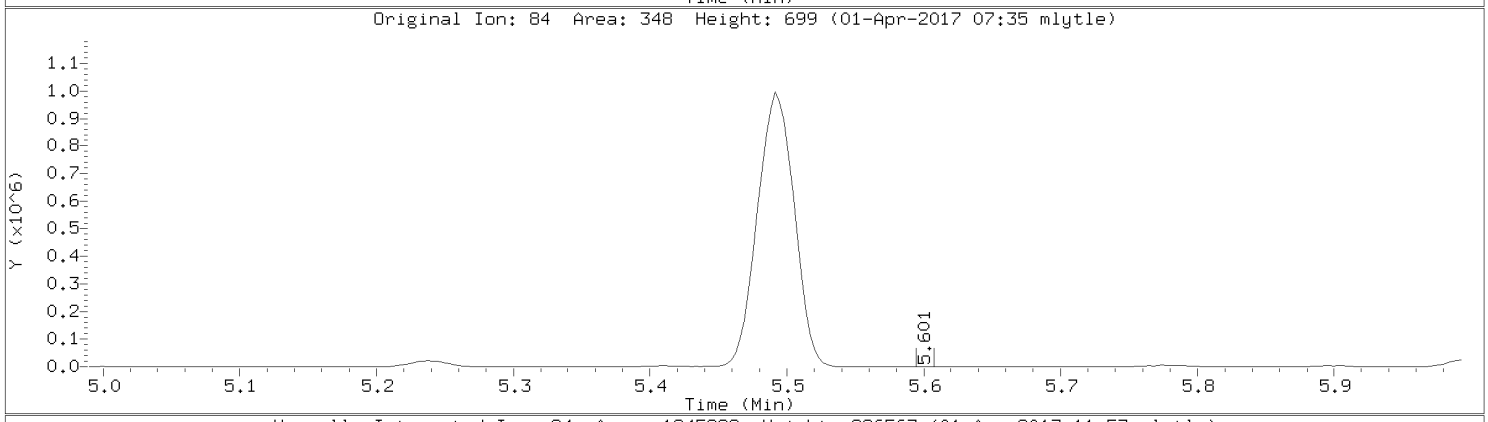


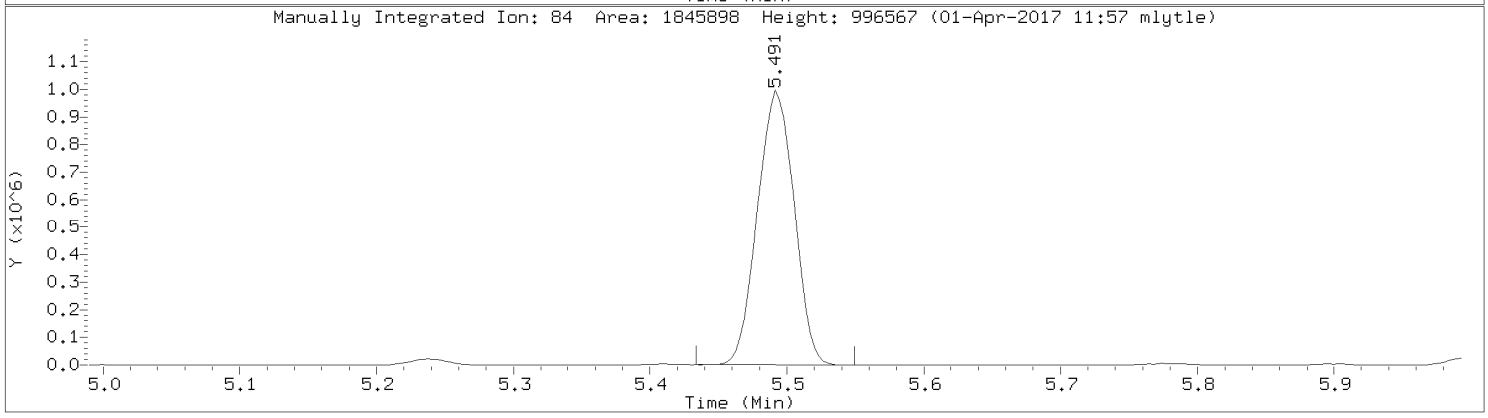
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7

Compound: Cyclohexane
CAS Number: 110-82-7

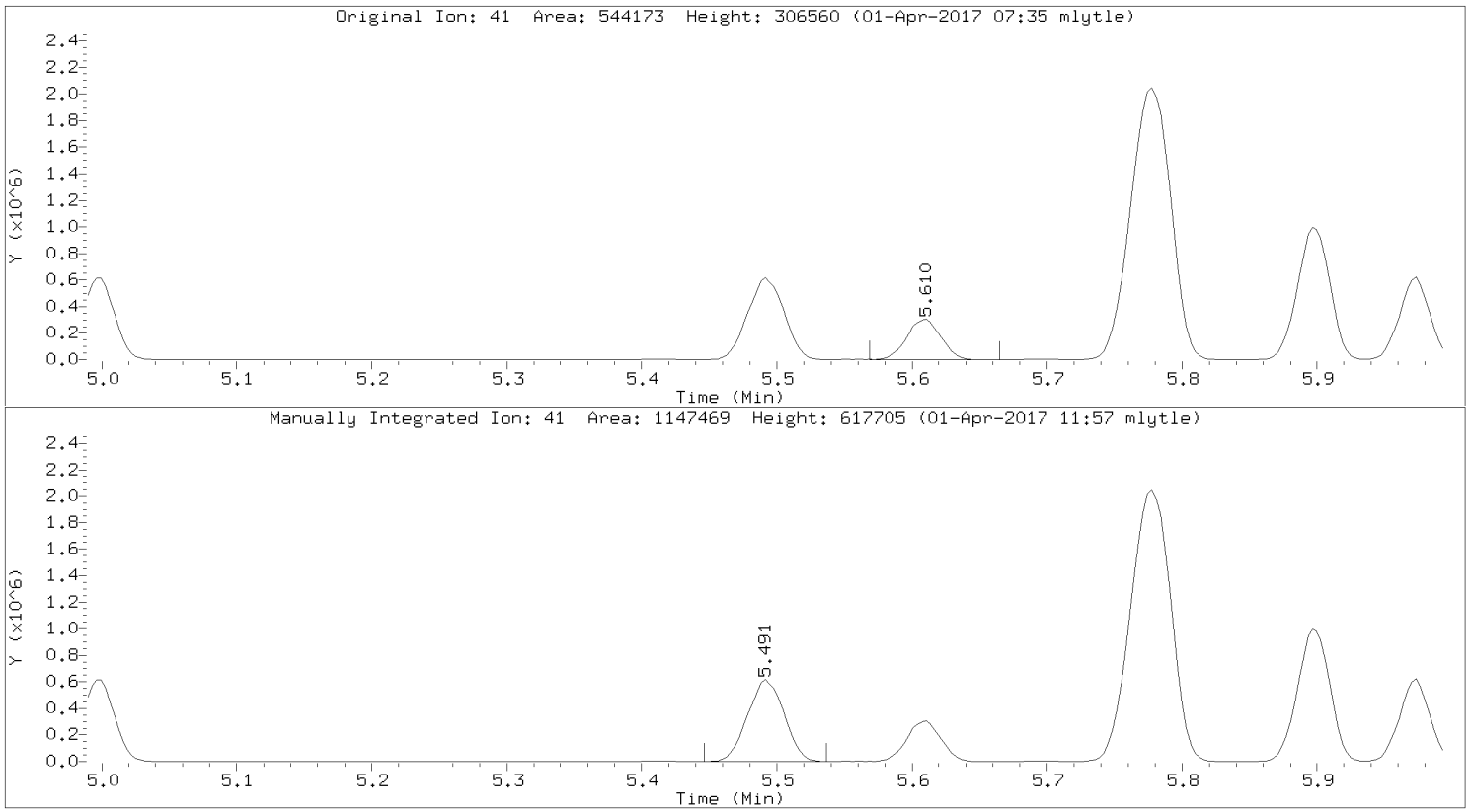






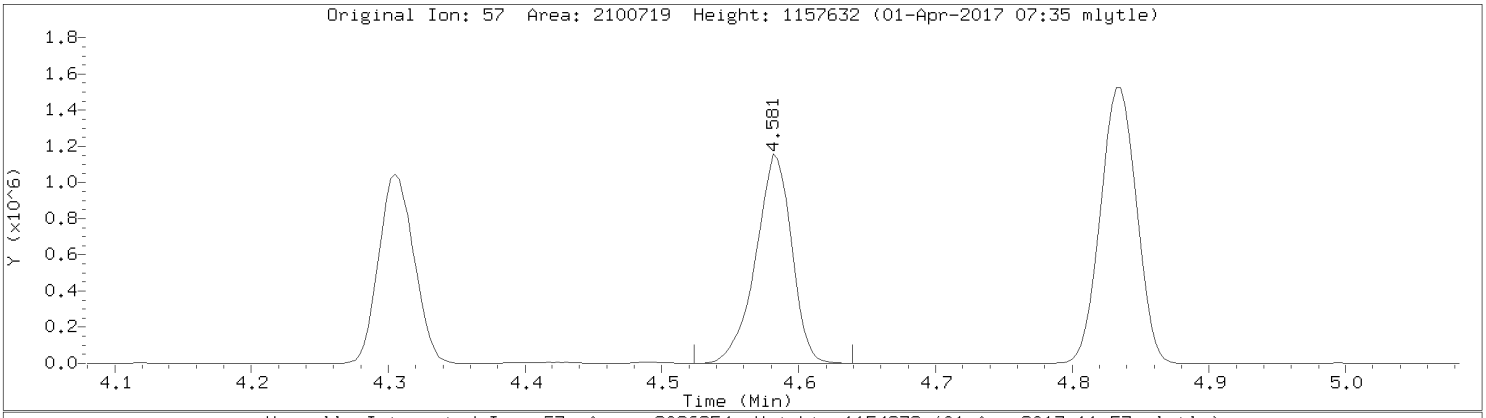


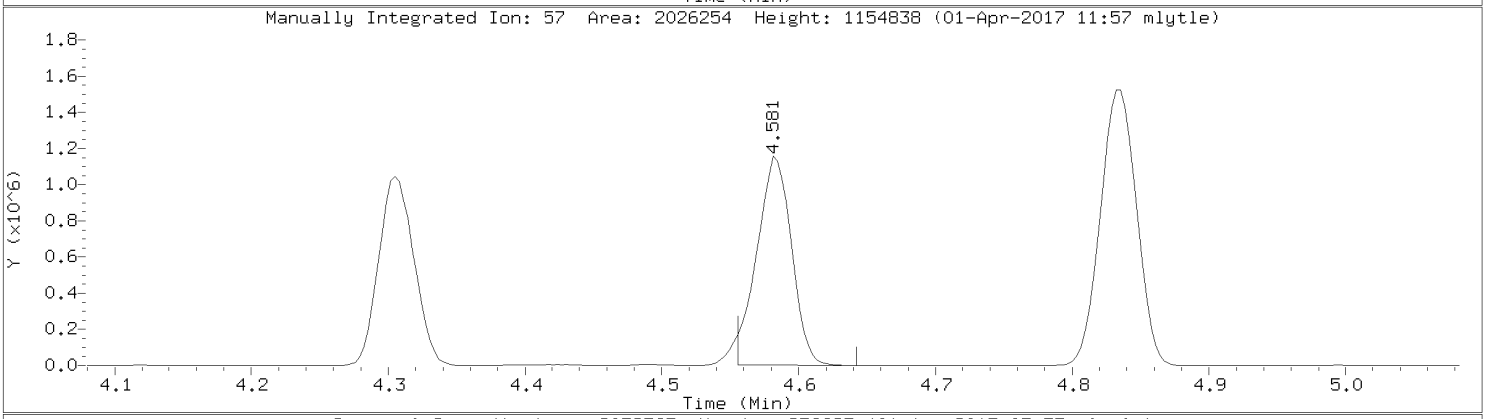
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7

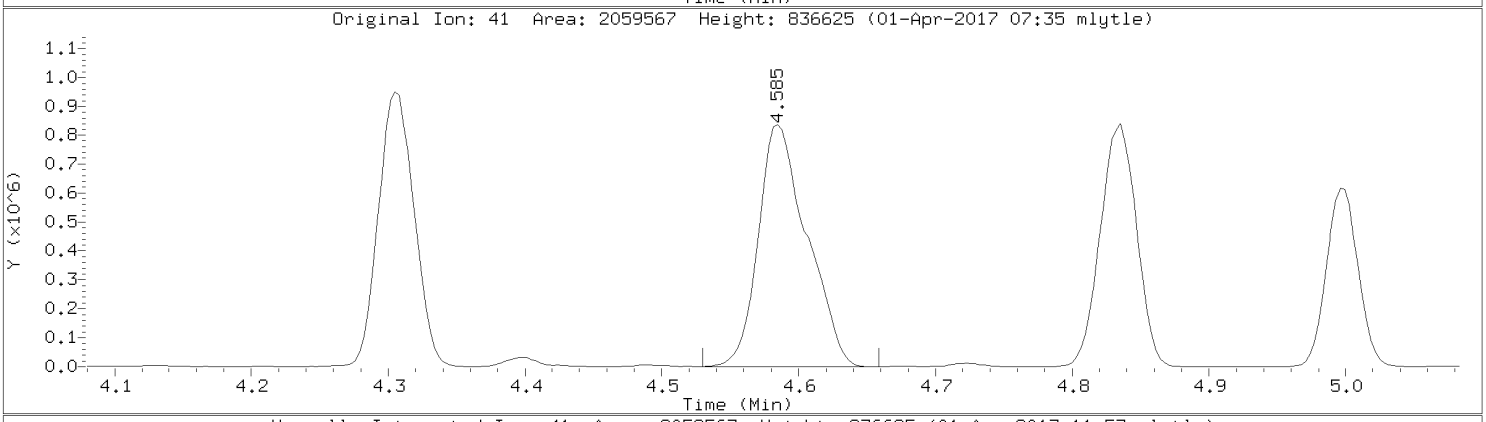


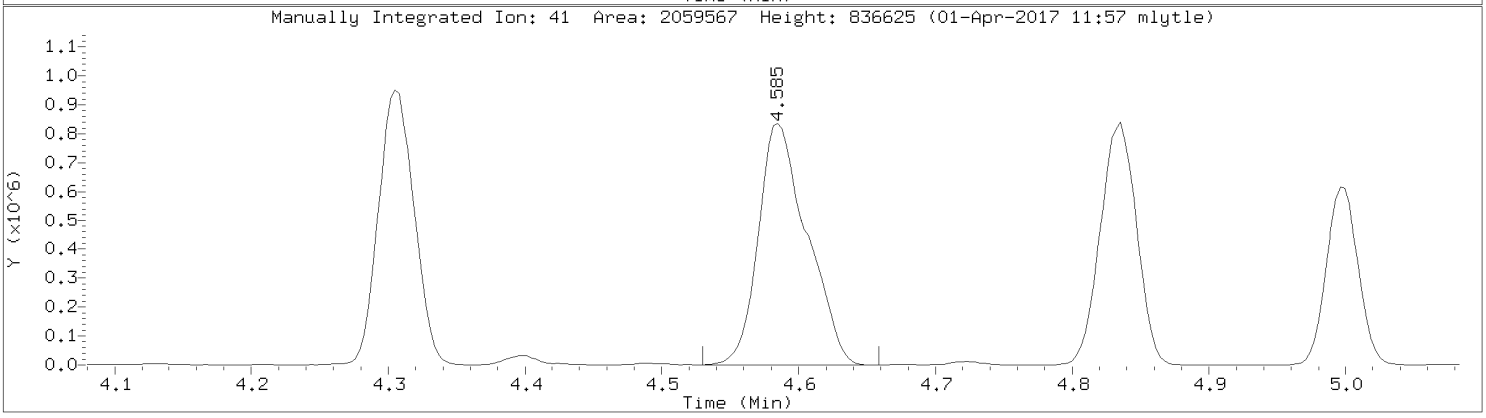
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7

Compound: n-Hexane
CAS Number: 110-54-3

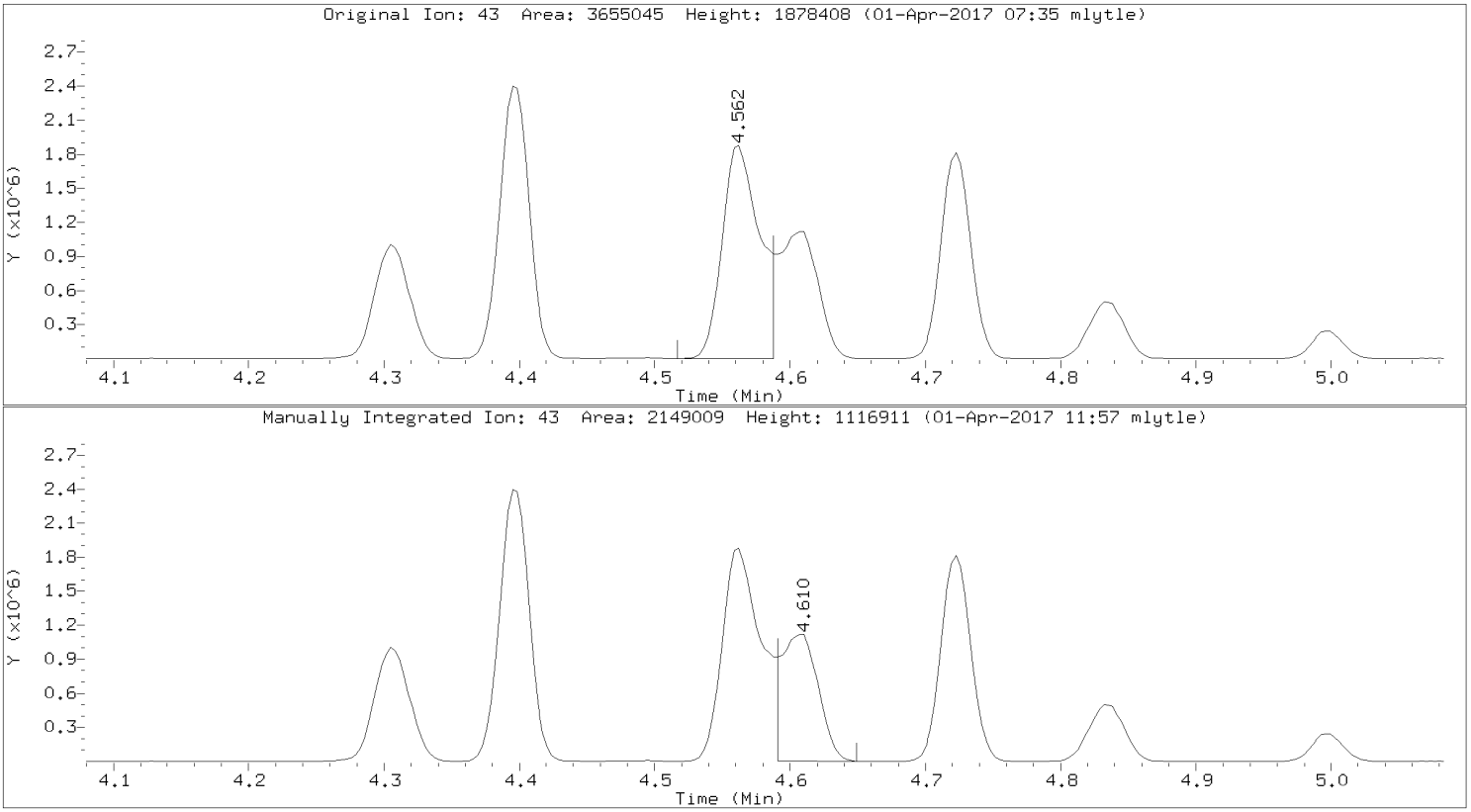






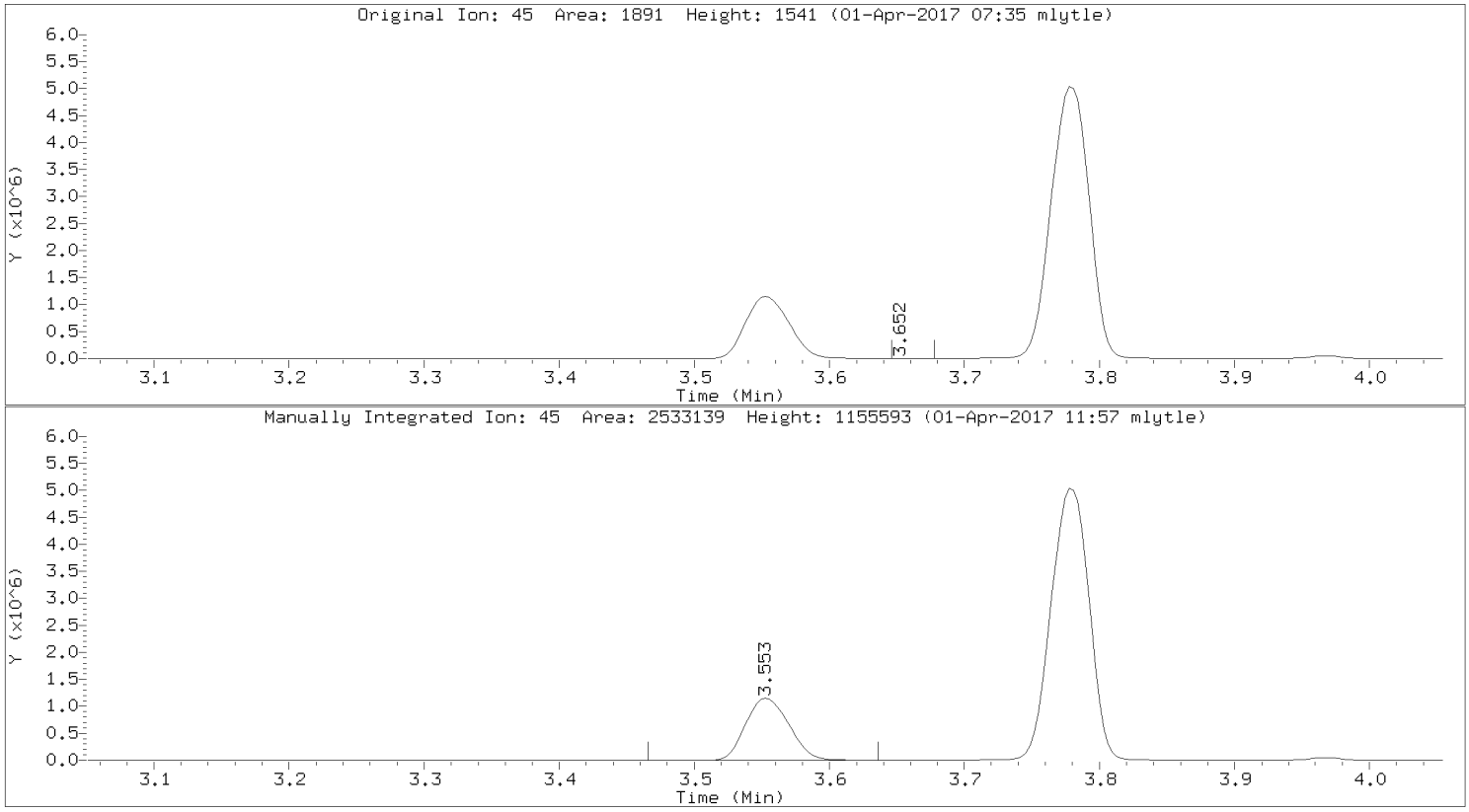


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7



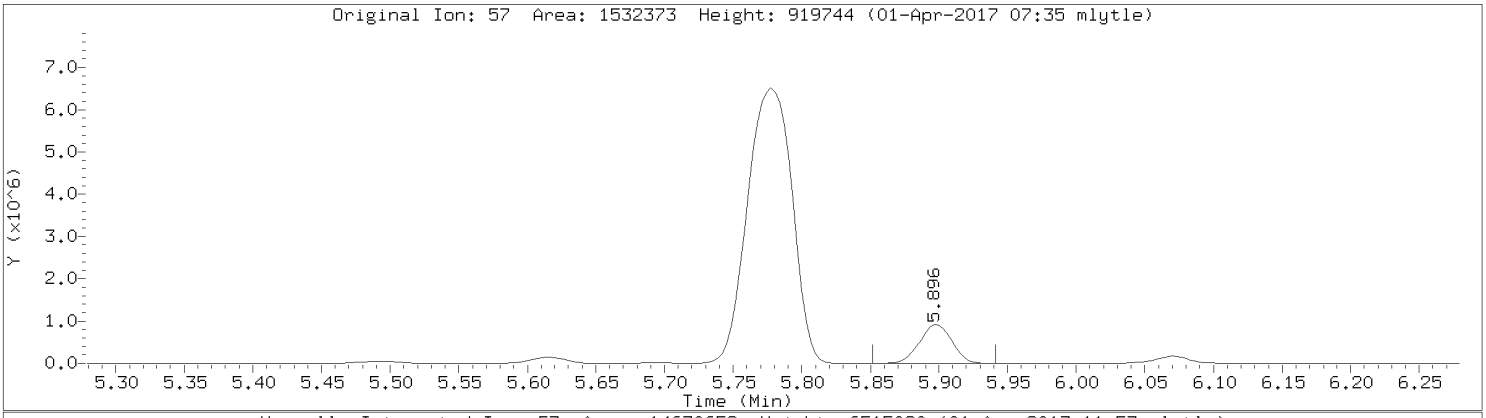
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7

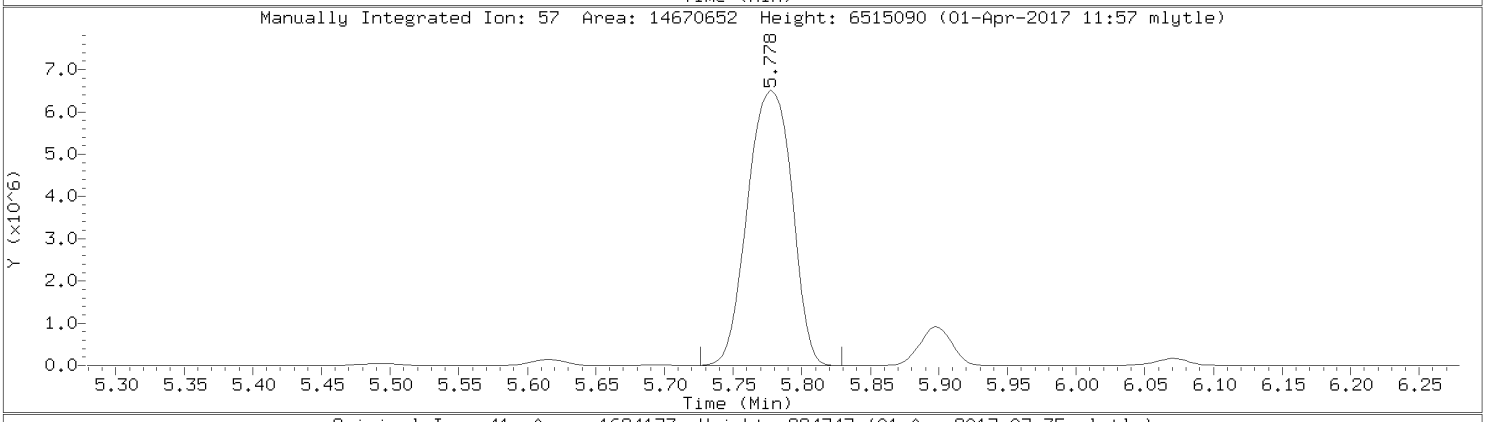
Compound: Ethanol
CAS Number: 64-17-5

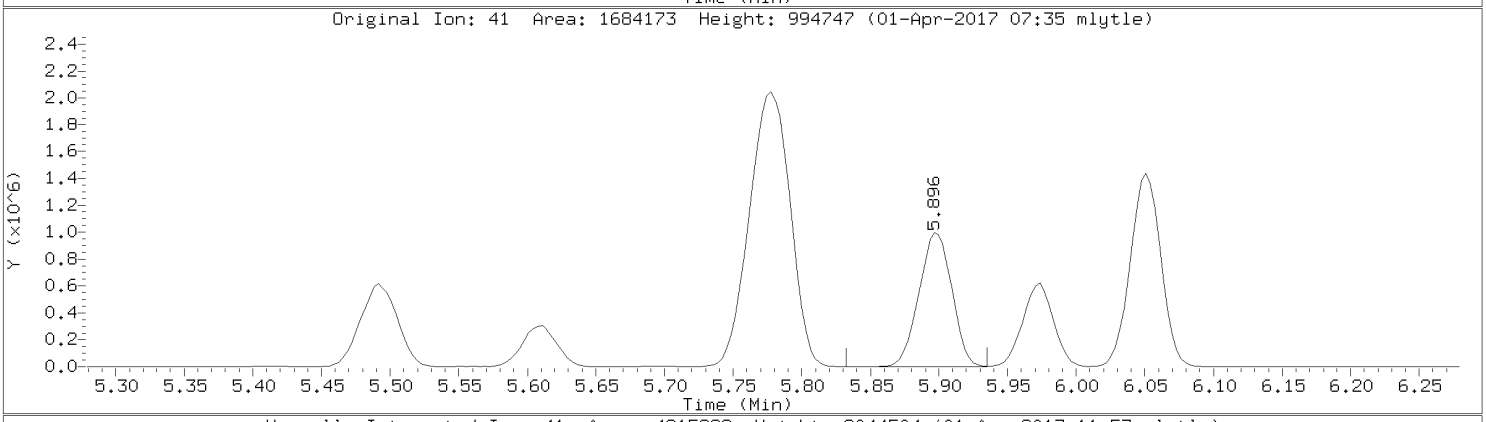


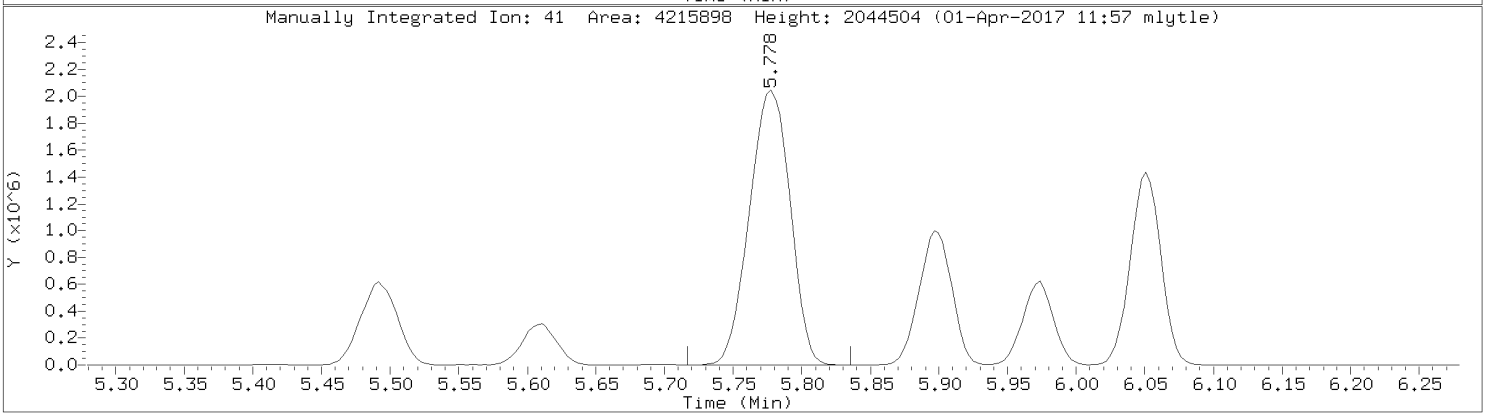
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

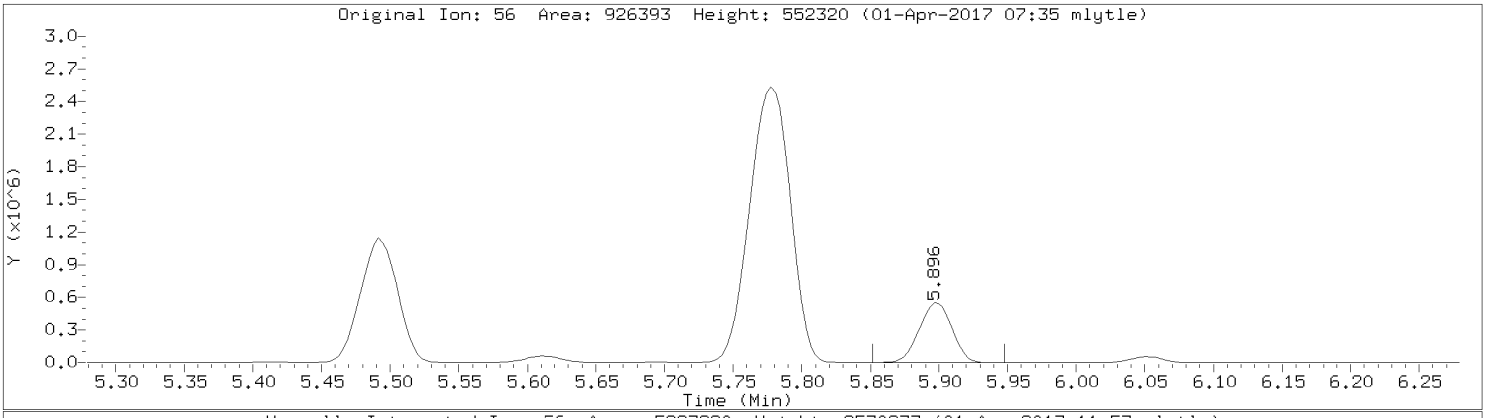


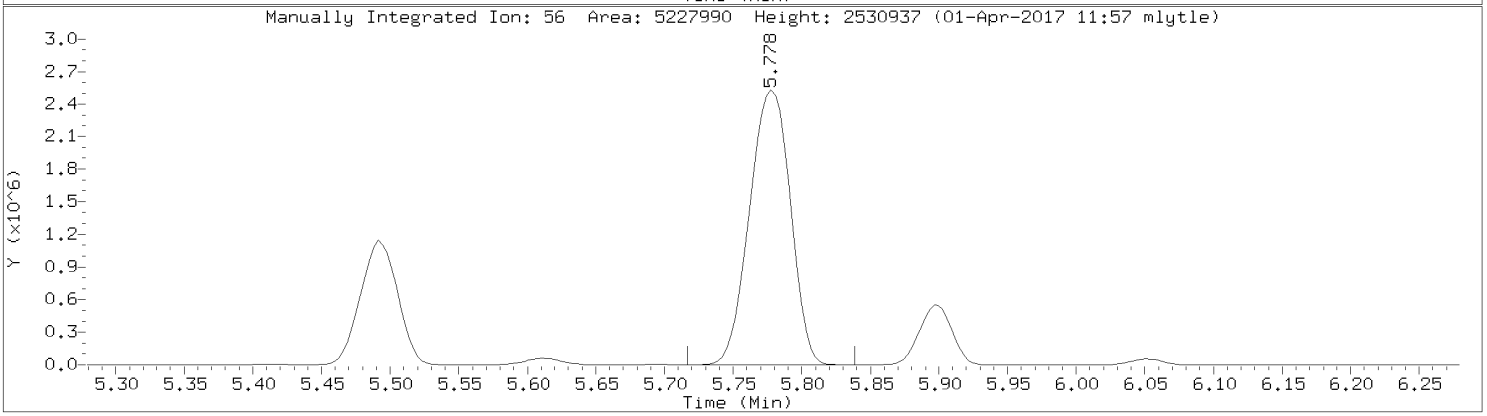






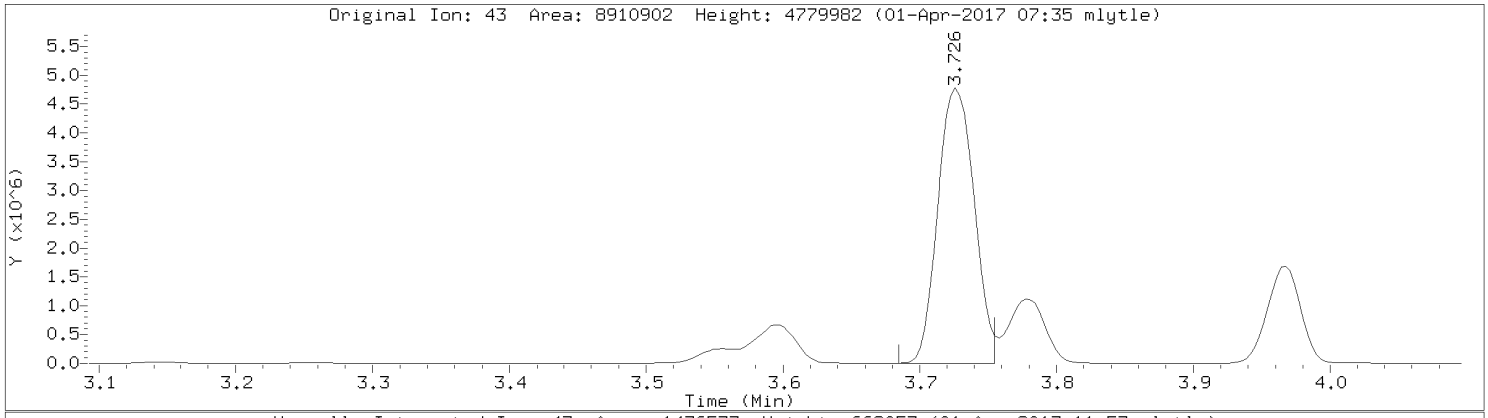
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7

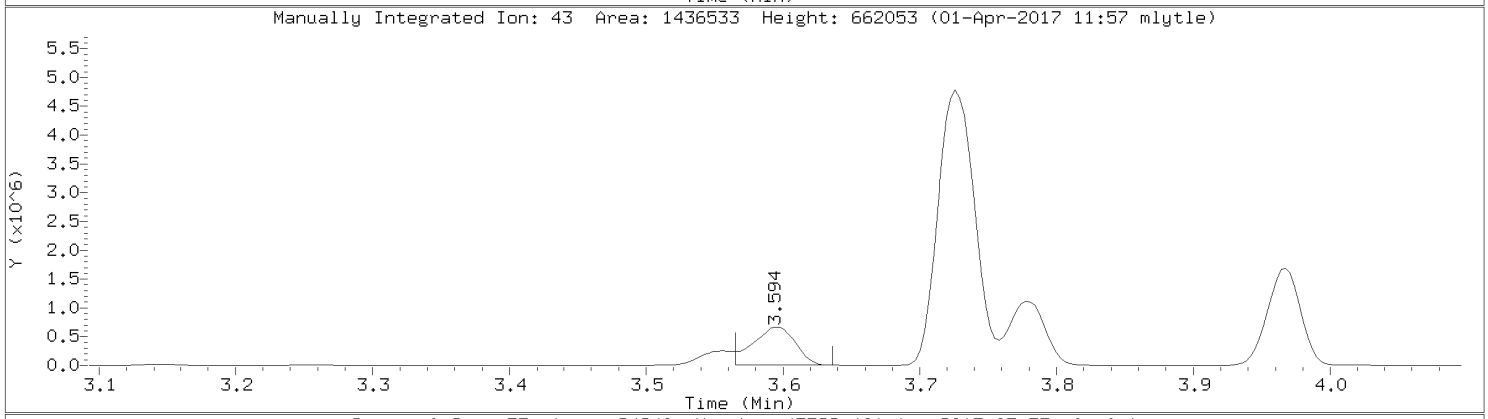


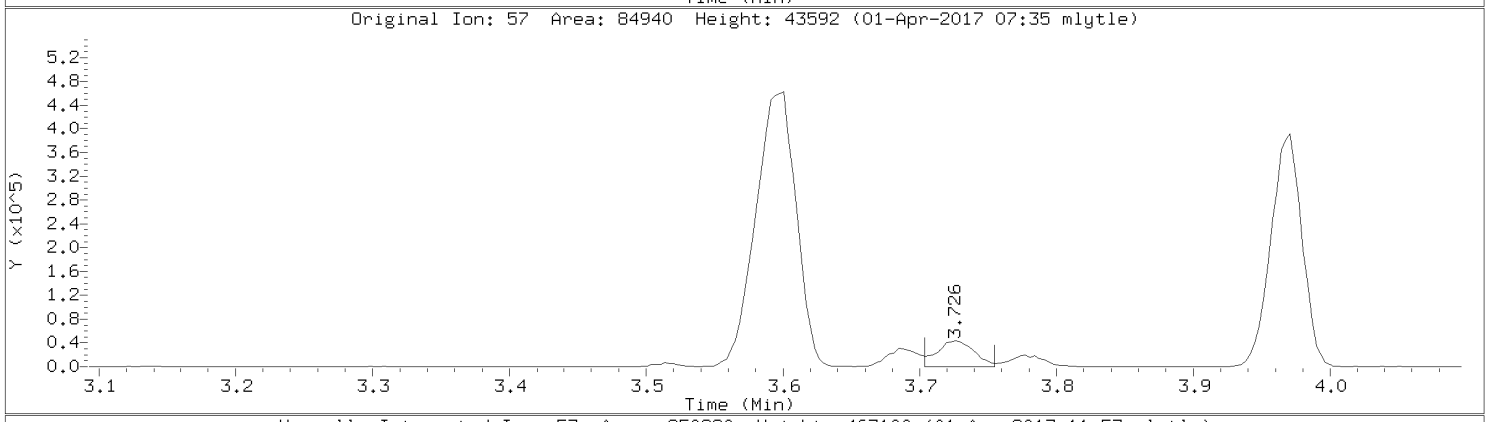


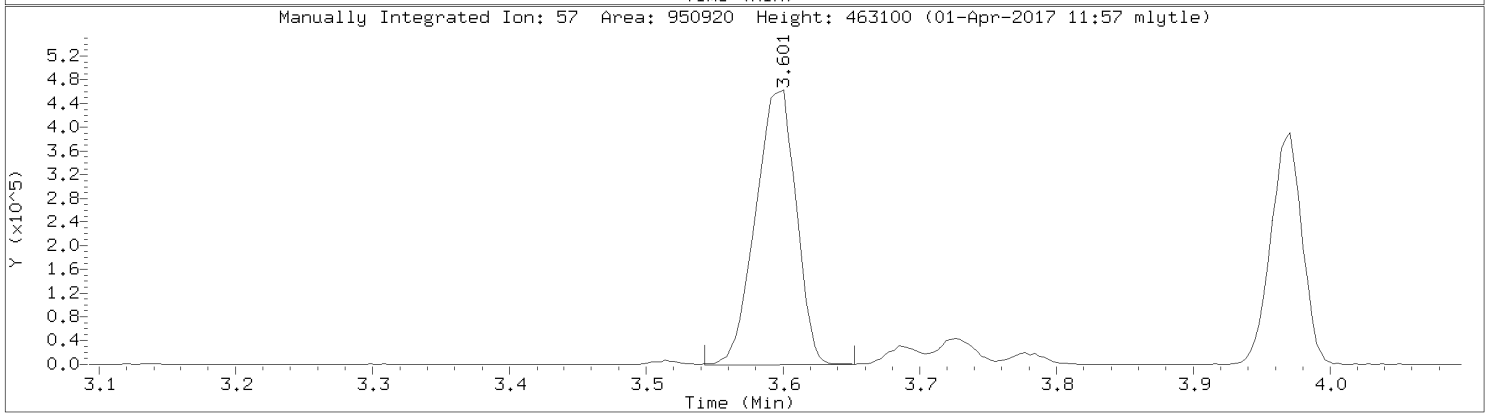
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7

Compound: Isopentane
CAS Number: 78-78-4

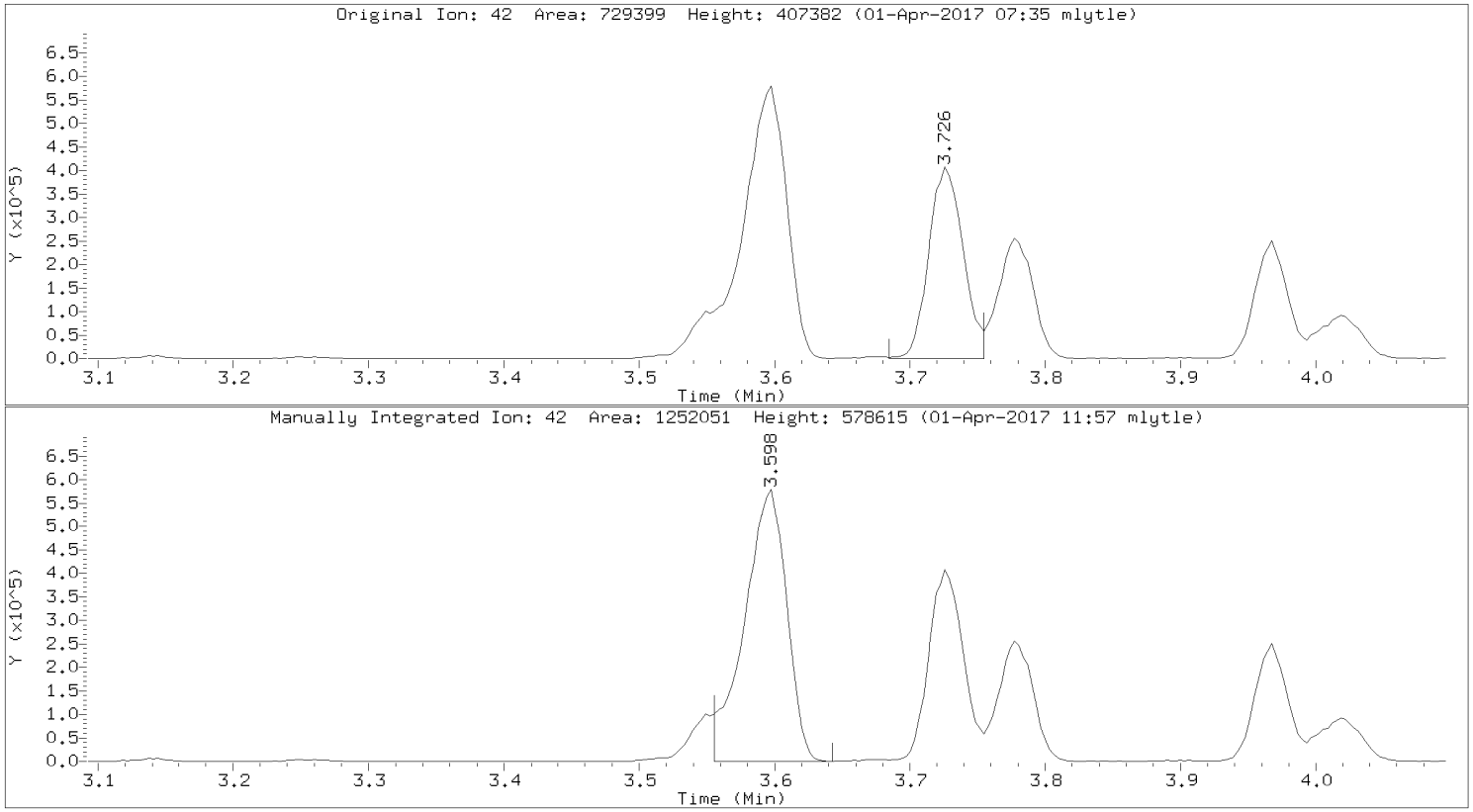






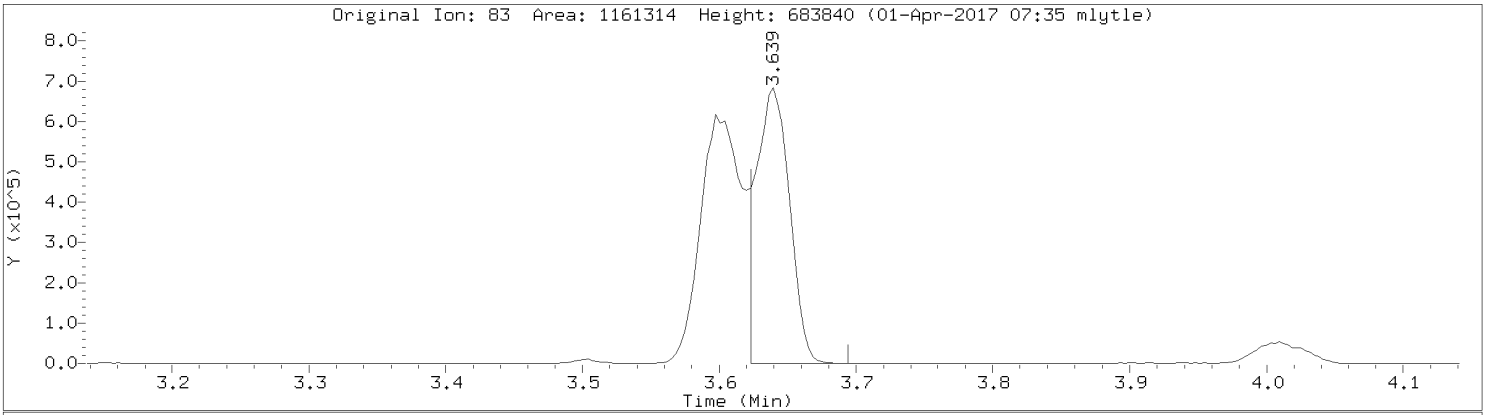


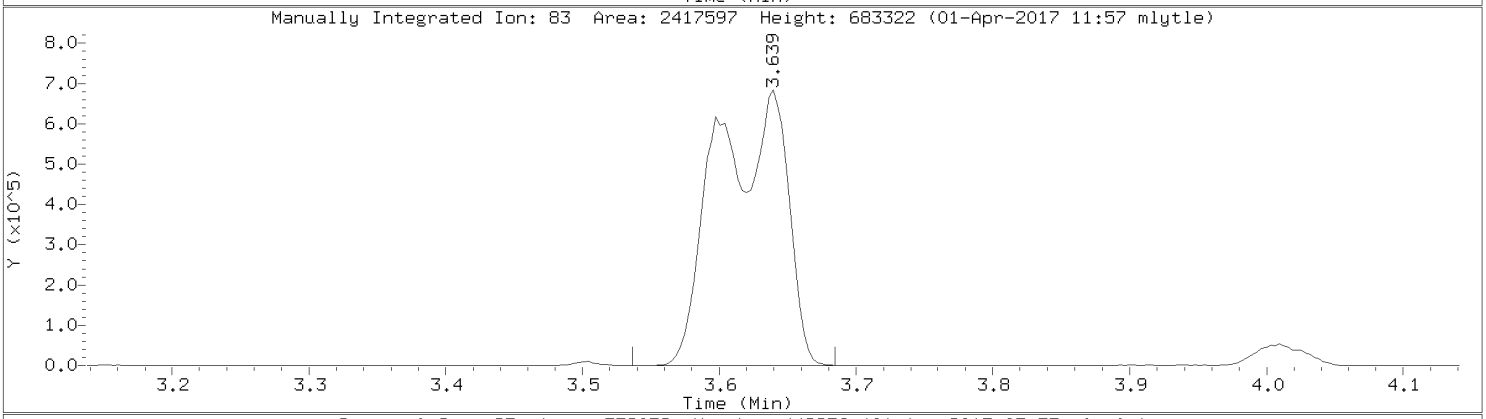
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7

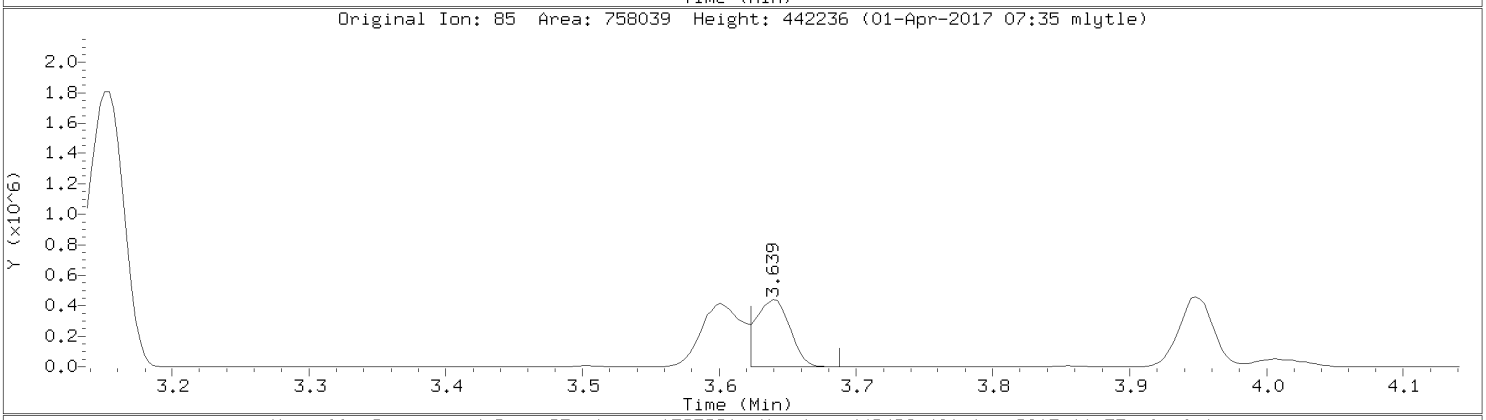


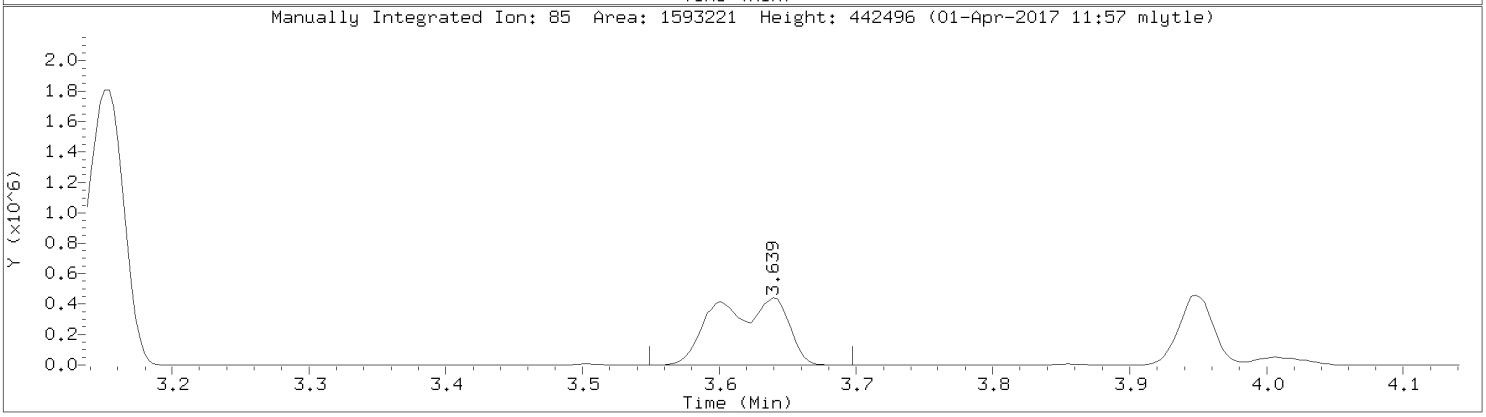
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7

Compound: Freon 123
CAS Number: 306-83-2

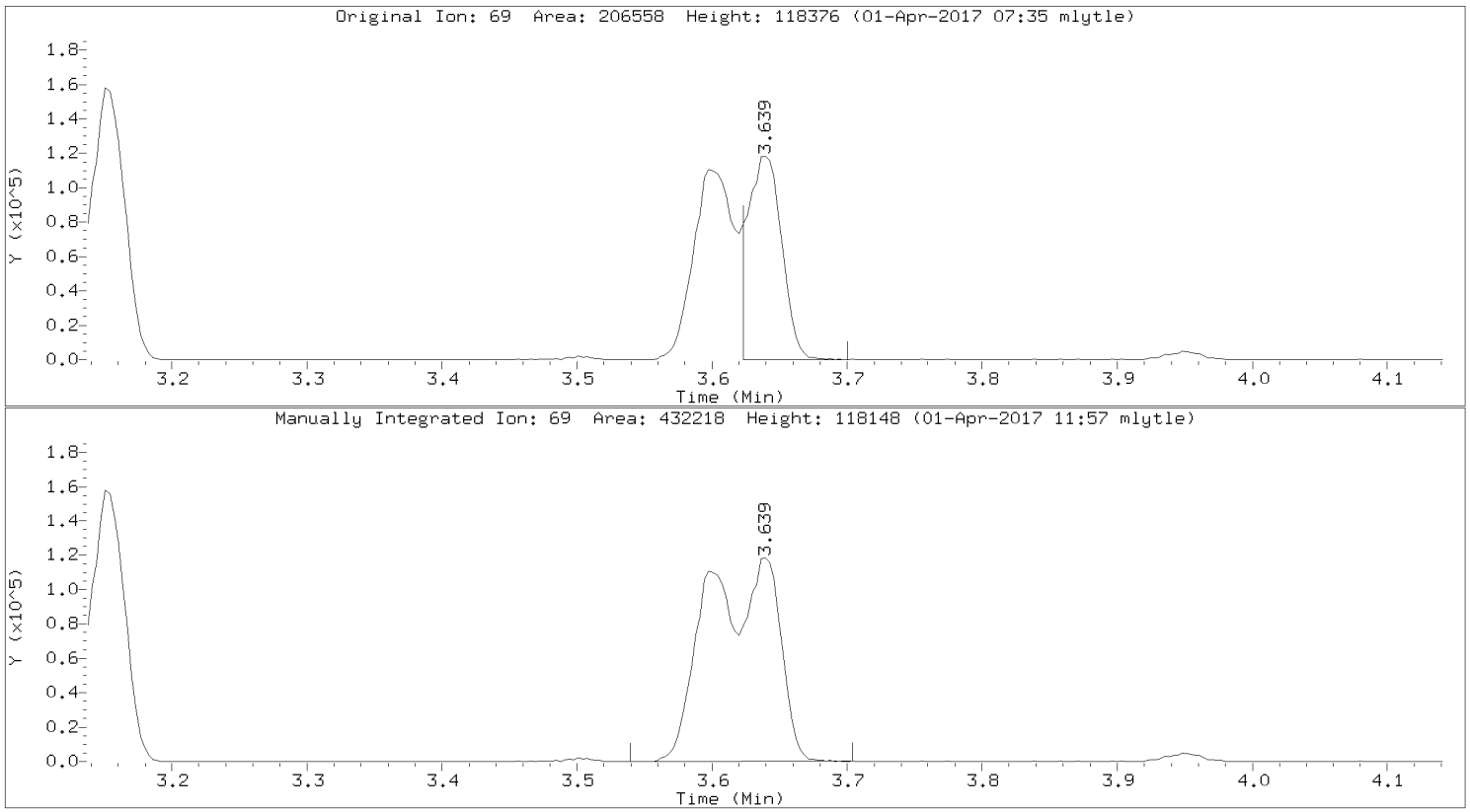








Data File: \\192.168.10.12\chem\10airB.i\033117.b/09008.D
Injection Date: 31-MAR-2017 18:28
Instrument: 10airB.i
Lab Sample ID: CAL7



Data File: \\192.168.10.12\chem\10airB.i\033117.b\09010.D
Report Date: 01-Apr-2017 11:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033117.b\09010.D
Lab Smp Id: ICV
Inj Date : 31-MAR-2017 19:23
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Meth Date : 01-Apr-2017 11:58 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	3.031	2.993	(0.540)	136554	9.96810	9.97	(Q)
4	Propylene	41	3.037	2.993	(0.541)	397228	10.2541	10.3	
5	Dichlorodifluoromethane	85	3.070	3.028	(0.547)	1343548	9.32944	9.33	(H)
6	Chloromethane	50	3.163	3.134	(0.564)	647314	10.2712	10.3	
7	Dichlorotetrafluoroethane	85	3.172	3.153	(0.566)	1280517	10.2451	10.2	
8	Vinyl chloride	62	3.240	3.218	(0.578)	521449	10.5202	10.5	
9	1,3-Butadiene	54	3.282	3.263	(0.585)	398227	10.0484	10.0	
10	Bromomethane	94	3.417	3.401	(0.609)	386499	10.1726	10.2	
11	Chloroethane	64	3.471	3.459	(0.619)	221698	10.5121	10.5	
12	Ethanol	45	3.536	3.552	(0.630)	173807	9.61545	9.62	(M)
13	Vinyl Bromide	106	3.587	3.578	(0.639)	400045	10.9268	10.9	
14	Isopentane	43	3.603	3.594	(0.642)	491651	9.43457	9.43	(M)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.677	3.671	(0.656)	1000421	10.2545	10.3	
17	Acrolein	56	3.680	3.690	(0.656)	159412	9.58129	9.58	
18	Acetone	43	3.716	3.726	(0.662)	740383	10.6231	10.6	
19	Isopropyl Alcohol	45	3.758	3.777	(0.670)	846346	10.7209	10.7	
20	1,1-Dichloroethene	61	3.915	3.909	(0.698)	723244	10.3432	10.3	
21	Acrylonitrile	53	3.918	3.935	(0.699)	392402	10.5349	10.5	
22	Freon 113	101	3.951	3.948	(0.704)	792464	9.85246	9.85	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09010.D
Report Date: 01-Apr-2017 11:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.947	3.967	(0.704)	1063884	11.0894	11.1
	25 Methylene chloride	49	4.002	4.009	(0.713)	596565	10.7073	10.7
	26 Allyl Chloride	76	4.018	4.021	(0.716)	157890	11.9394	11.9
	27 Carbon Disulfide	76	4.131	4.124	(0.736)	1031678	12.0202	12.0
	28 trans-1,2-dichloroethene	96	4.269	4.282	(0.761)	412678	10.7558	10.8
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	1026816	10.2879	10.3
	30 Vinyl Acetate	43	4.385	4.394	(0.782)	1333484	10.7792	10.8
	31 1,1-Dichloroethane	63	4.404	4.417	(0.785)	794619	10.5943	10.6(QH)
$	32 Hexane-d14(S)	66	4.487	4.488	(0.800)	726780	9.86702	9.87
	33 Methyl Ethyl Ketone	72	4.549	4.558	(0.811)	180957	9.17991	9.18(Q)
	34 n-Hexane	57	4.584	4.581	(0.817)	756848	10.0960	10.1(QM)
	35 Di-isopropyl Ether	45	4.600	4.607	(0.820)	1530803	9.71839	9.72
	36 Ethyl Acetate	43	4.716	4.722	(0.841)	1037289	9.90691	9.91
	37 cis-1,2-Dichloroethene	96	4.719	4.732	(0.841)	427500	10.1055	10.1
	38 Ethyl Tert-Butyl Ether	59	4.828	4.832	(0.861)	1691484	11.4542	11.5
	39 Chloroform	83	4.838	4.851	(0.862)	934647	11.8111	11.8
	40 Tetrahydrofuran	42	4.992	4.996	(0.890)	638964	10.4638	10.5
	41 1,1,1-Trichloroethane	97	5.230	5.237	(0.932)	1092346	10.6796	10.7
	42 1,2-Dichloroethane	62	5.237	5.247	(0.934)	859590	10.2323	10.2
	43 Benzene	78	5.465	5.472	(0.974)	1554582	10.5583	10.6
	44 Carbon tetrachloride	117	5.484	5.491	(0.978)	1126257	10.9736	11.0
	45 Cyclohexane	56	5.491	5.491	(0.979)	899089	10.6020	10.6(M)
	46 Tert Amyl Methyl Ether	73	5.603	5.610	(0.999)	1456563	9.16303	9.16
*	47 1,4-Difluorobenzene	114	5.610	5.619	(1.000)	1952453	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.777	(1.028)	2951716	11.3843	11.4(M)
	49 Heptane	43	5.893	5.896	(1.050)	1060873	10.4890	10.5
	50 1,2-Dichloropropane	63	5.967	5.973	(1.064)	633501	10.5130	10.5
	51 Trichloroethene	130	5.989	5.996	(1.068)	805675	10.1737	10.2
	52 Methyl methacrylate	69	6.044	6.050	(1.077)	537492	10.0991	10.1
	53 1,4-Dioxane	88	6.066	6.070	(1.081)	374143	10.3072	10.3
	54 Bromodichloromethane	83	6.085	6.092	(1.085)	1138816	10.9785	11.0
	55 Methylcyclohexane	98	6.433	6.439	(1.147)	457890	10.8879	10.9
	56 Methyl Isobutyl Ketone	43	6.529	6.536	(1.164)	1514257	10.9727	11.0
	57 cis-1,3-Dichloropropene	75	6.587	6.594	(1.174)	917906	11.2798	11.3
	58 trans-1,3-Dichloropropene	75	6.983	6.989	(1.245)	852329	11.9517	12.0(M)
$	59 Toluene-d8 (S)	98	7.073	7.079	(1.261)	1663123	10.1670	10.2(QH)
	60 1,1,2-Trichloroethane	97	7.143	7.150	(1.273)	668200	10.4168	10.4
	61 Toluene	91	7.150	7.156	(1.275)	1963931	10.3792	10.4
	62 Methyl Butyl Ketone	43	7.372	7.378	(0.853)	1370701	11.4442	11.4
	63 n-Octane	43	Compound Not Detected.					
	64 Dibromochloromethane	129	7.674	7.684	(0.888)	1263578	10.9617	11.0
	65 1,2-Dibromoethane	107	7.909	7.912	(0.915)	1133580	10.7043	10.7
	66 Tetrachloroethene	166	7.986	7.992	(0.924)	1031801	9.77723	9.78
*	67 Chlorobenzene - d5	117	8.642	8.648	(1.000)	1191828	10.0000	
	68 Chlorobenzene	112	8.687	8.690	(1.005)	1654183	10.1153	10.1
	69 Ethyl Benzene	91	8.934	8.941	(1.034)	2629056	10.3868	10.4
	70 m&p-Xylene	91	9.082	9.086	(1.051)	2150427	11.2440	11.2
	71 n-Nonane	43	Compound Not Detected.					
	72 Bromoform	173	9.478	9.487	(1.097)	1082939	12.4609	12.5
	73 Styrene	104	9.507	9.513	(1.100)	1542008	10.7213	10.7
	74 o-Xylene	91	9.577	9.584	(1.108)	2086821	10.4697	10.5
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.835	(1.137)	1230320	10.9303	10.9
	76 Isopropylbenzene	105	10.159	10.166	(1.176)	2832368	10.1577	10.2
	77 N-Propylbenzene	91	10.738	10.745	(1.243)	3224165	11.2117	11.2

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09010.D
Report Date: 01-Apr-2017 11:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.912	10.915	(1.263)	2637112	10.8526	10.9(M)	
79	1,3,5-Trimethylbenzene	105	11.002	11.005	(1.273)	2305212	10.6408	10.6	
80	n-Decane	57	Compound Not Detected.						(D)
81	Tert-Butyl Benzene	119	11.497	11.503	(1.330)	2333866	10.2823	10.3	
82	1,2,4-Trimethylbenzene	105	11.513	11.520	(1.332)	2133362	10.9388	10.9	
83	1,3-Dichlorobenzene	146	11.796	11.799	(1.365)	1352196	11.7198	11.7	
84	Sec- Butylbenzene	105	11.806	11.812	(1.366)	3021935	10.7115	10.7	
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.857	(1.371)	630745	11.7124	11.7(M)	
86	Benzyl Chloride	91	11.863	11.873	(1.373)	1186690	9.49049	9.49	
87	1,4-Dichlorobenzene	146	11.889	11.896	(1.376)	1333507	11.9542	12.0	
88	p-Isopropyltoluene	119	11.986	11.995	(1.387)	2556191	10.7564	10.8	
89	1,2,3-Trimethylbenzene	105	12.034	12.040	(1.393)	2140699	11.0259	11.0	
90	1,2-Dichlorobenzene	146	12.281	12.285	(1.421)	1283580	11.8900	11.9	
91	N-Butylbenzene	91	12.461	12.465	(1.442)	2067079	12.2259	12.2	
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.909	(1.493)	5997	0.36509	0.365	
93	1,2,4-Trichlorobenzene	180	14.034	14.037	(1.624)	330976	9.20834	9.21	
94	Naphthalene	128	14.166	14.172	(1.639)	918480	8.73293	8.73	
95	Hexachlorobutadiene	225	14.413	14.417	(1.668)	434684	10.4428	10.4	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09010.D
Report Date: 01-Apr-2017 11:59

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09010.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Misc Info:

Calibration Date: 31-MAR-2017
Calibration Time: 17:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1952453	0.81
67 Chlorobenzene - d	1173864	704318	1643410	1191828	1.53

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.00
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09010.D
Report Date: 01-Apr-2017 11:59

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: 033117.b
Sample Matrix: Gas Fraction: VOA
Lab Smp Id: ICV
Level: LOW Operator: MJL
Data Type: MS DATA SampleType: LCS
SpikeList File: 2016ICV.spk Quant Type: ISTD
Sublist File: all.sub
Method File: \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
3	Chlorodifluorometh	10.4	9.97	95.85	60-140
4	Propylene	10.8	10.3	94.95	60-140
5	Dichlorodifluorome	10.0	9.33	93.29	60-140
7	Dichlorotetrafluor	9.80	10.2	104.54	60-140
6	Chloromethane	10.0	10.3	102.71	60-140
8	Vinyl chloride	10.2	10.5	103.14	60-140
9	1,3-Butadiene	10.3	10.0	97.56	60-140
10	Bromomethane	9.70	10.2	104.87	60-140
11	Chloroethane	9.70	10.5	108.37	60-140
12	Ethanol	10.6	9.62	90.71	60-140
13	Vinyl Bromide	10.6	10.9	103.08	60-140
14	Isopentane	10.3	9.43	91.60	60-140
17	Acrolein	9.60	9.58	99.81	60-140
16	Trichlorofluoromet	10.2	10.3	100.53	60-140
18	Acetone	10.3	10.6	103.14	60-140
19	Isopropyl Alcohol	10.3	10.7	104.09	60-140
21	Acrylonitrile	11.3	10.5	93.23	60-140
20	1,1-Dichloroethene	10.5	10.3	98.51	60-140
24	Tert Butyl Alcohol	11.0	11.1	100.81	60-140
22	Freon 113	10.5	9.85	93.83	60-140
25	Methylene chloride	11.0	10.7	97.34	60-140
26	Allyl Chloride	11.0	11.9	108.54	60-140
27	Carbon Disulfide	10.5	12.0	114.48	60-140
28	trans-1,2-dichloro	10.2	10.8	105.45	60-140
29	Methyl Tert Butyl	10.5	10.3	97.98	60-140
30	Vinyl Acetate	11.1	10.8	97.11	60-140
31	1,1-Dichloroethane	10.5	10.6	100.90	60-140
33	Methyl Ethyl Keton	10.7	9.18	85.79	60-140
34	n-Hexane	10.5	10.1	96.15	60-140
35	Di-isopropyl Ether	10.4	9.72	93.45	60-140
36	Ethyl Acetate	10.9	9.91	90.89	60-140
37	cis-1,2-Dichloroet	10.8	10.1	93.57	60-140
38	Ethyl Tert-Butyl E	10.3	11.5	111.21	60-140
39	Chloroform	10.4	11.8	113.57	60-140
40	Tetrahydrofuran	10.9	10.5	96.00	60-140
41	1,1,1-Trichloroeth	10.4	10.7	102.69	60-140
42	1,2-Dichloroethane	10.6	10.2	96.53	60-140
43	Benzene	10.6	10.6	99.61	60-140
44	Carbon tetrachlori	10.5	11.0	104.51	60-140
45	Cyclohexane	10.5	10.6	100.97	60-140

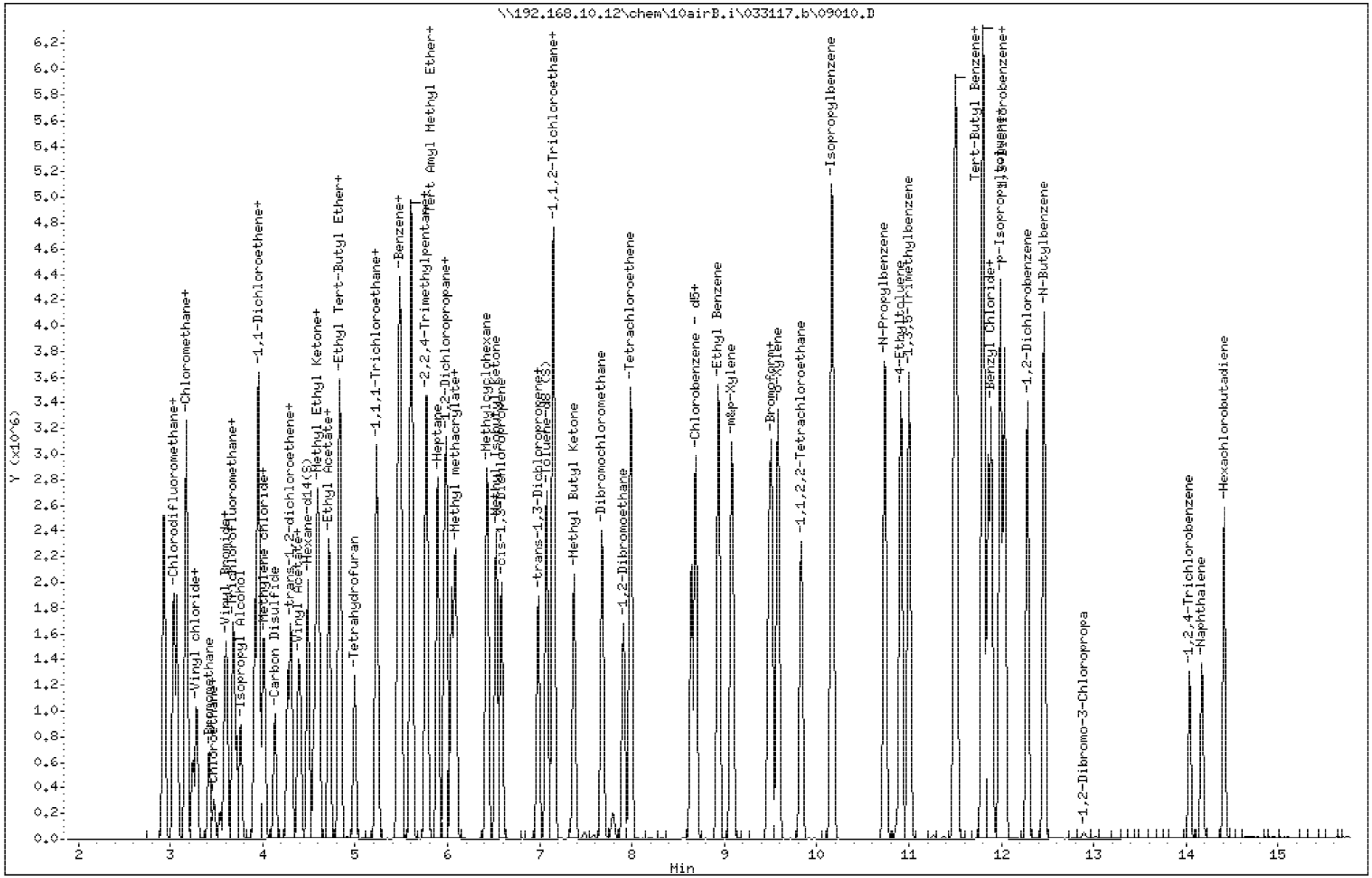
Data File: \\192.168.10.12\chem\10airB.i\033117.b\09010.D
Report Date: 01-Apr-2017 11:59

	SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
46	Tert Amyl Methyl E	10.6	9.16	86.44	60-140
48	2,2,4-Trimethylpen	10.6	11.4	107.40	60-140
49	Heptane	10.6	10.5	98.95	60-140
50	1,2-Dichloropropan	10.7	10.5	98.25	60-140
51	Trichloroethene	10.5	10.2	96.89	60-140
53	1,4-Dioxane	10.5	10.3	98.16	60-140
54	Bromodichlorometha	10.5	11.0	104.56	60-140
55	Methylcyclohexane	10.5	10.9	103.69	60-140
56	Methyl Isobutyl Ke	10.5	11.0	104.50	60-140
57	cis-1,3-Dichloropr	11.2	11.3	100.71	60-140
58	trans-1,3-Dichloro	10.5	12.0	113.83	60-140
61	Toluene	10.7	10.4	97.00	60-140
60	1,1,2-Trichloroeth	10.6	10.4	98.27	60-140
62	Methyl Butyl Keton	10.8	11.4	105.97	60-140
64	Dibromochlorometha	11.2	11.0	97.87	60-140
65	1,2-Dibromoethane	10.6	10.7	100.98	60-140
66	Tetrachloroethene	10.5	9.78	93.12	60-140
68	Chlorobenzene	10.7	10.1	94.54	60-140
69	Ethyl Benzene	10.7	10.4	97.07	60-140
70	m&p-Xylene	10.7	11.2	105.08	60-140
72	Bromoform	10.8	12.5	115.38	60-140
73	Styrene	10.5	10.7	102.11	60-140
74	o-Xylene	10.6	10.5	98.77	60-140
75	1,1,2,2-Tetrachlor	10.6	10.9	103.12	60-140
76	Isopropylbenzene	10.2	10.2	99.59	60-140
77	N-Propylbenzene	10.0	11.2	112.12	60-140
78	4-Ethyltoluene	9.90	10.9	109.62	60-140
79	1,3,5-Trimethylben	10.3	10.6	103.31	60-140
81	Tert-Butyl Benzene	10.2	10.3	100.81	60-140
82	1,2,4-Trimethylben	10.2	10.9	107.24	60-140
83	1,3-Dichlorobenzen	10.4	11.7	112.69	60-140
84	Sec- Butylbenzene	10.3	10.7	104.00	60-140
86	Benzyl Chloride	10.4	9.49	91.25	60-140
87	1,4-Dichlorobenzen	10.1	12.0	118.36	60-140
88	p-Isopropyltoluene	10.1	10.8	106.50	60-140
89	1,2,3-Trimethylben	10.6	11.0	104.02	60-140
90	1,2-Dichlorobenzen	10.3	11.9	115.44	60-140
91	N-Butylbenzene	10.6	12.2	115.34	60-140
93	1,2,4-Trichloroben	9.80	9.21	93.96	60-140
94	Naphthalene	10.5	8.73	83.17	60-140
95	Hexachlorobutadien	10.0	10.4	104.43	60-140

	SURROGATE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
$ 32	Hexane-d14(S)	10.0	9.87	98.67	70-130
$ 59	Toluene-d8 (S)	10.0	10.2	101.67	70-130
$ 85	1,4-dichlorobenzen	10.0	11.7	117.12	70-130

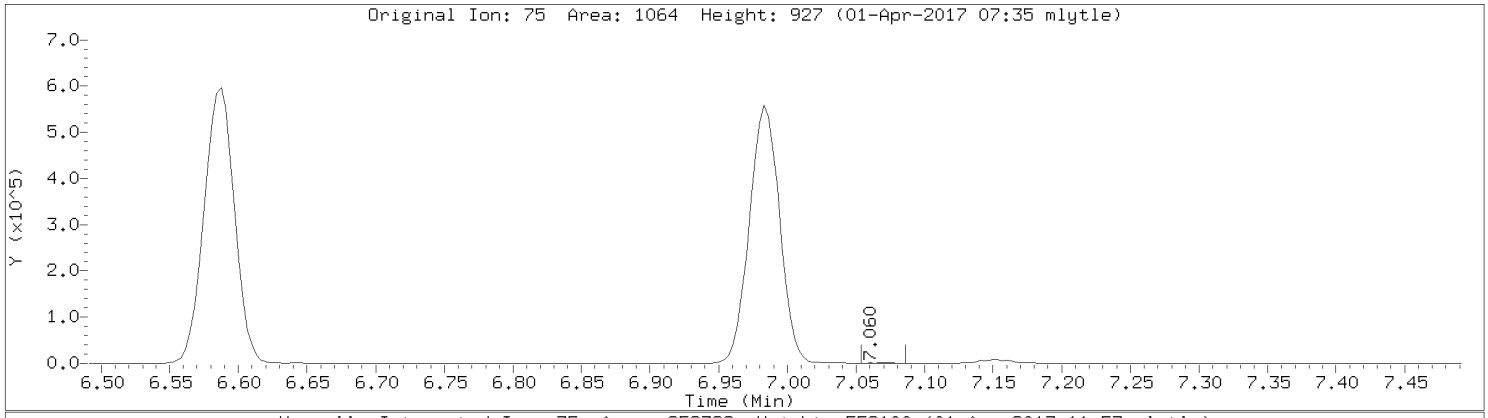
Data File: \\192.168.10.12\chem\10airB.i\033117.b\09010.D
Date : 31-MAR-2017 19:23
Client ID:
Sample Info:

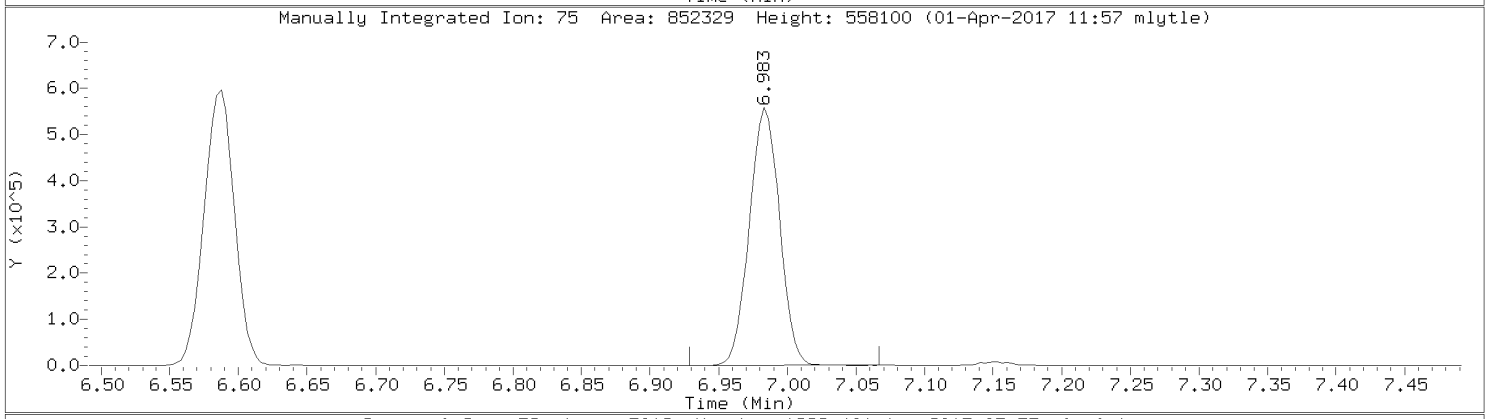
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

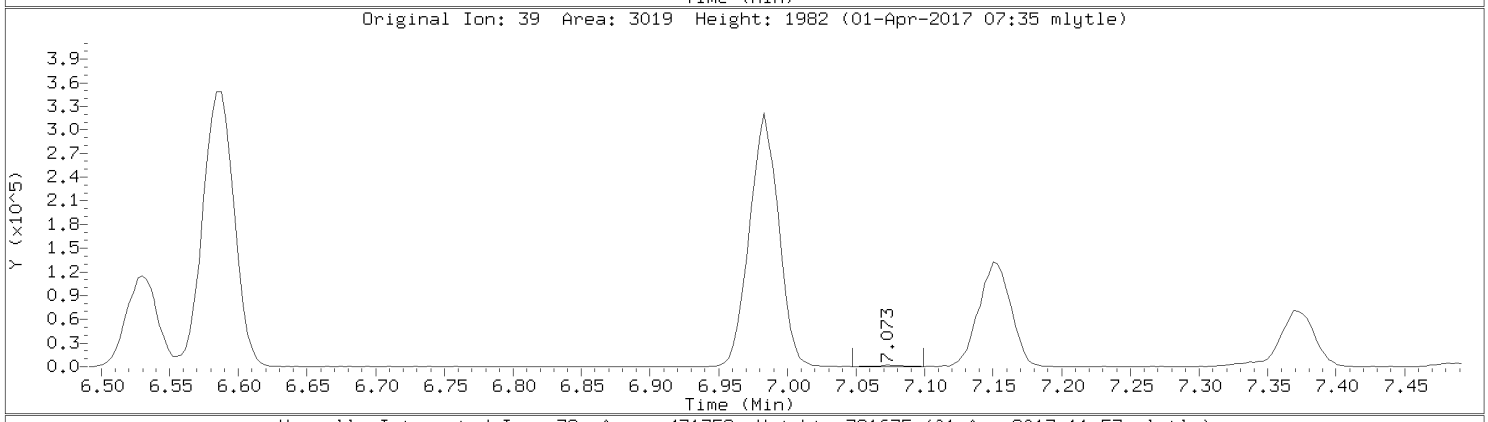


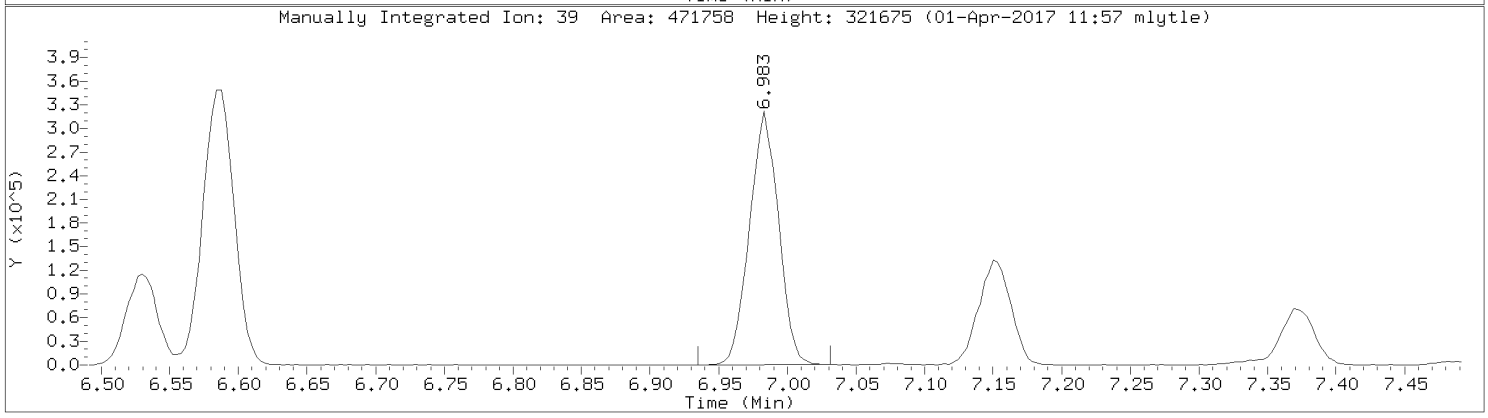
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: trans-1,3-Dichloropropene
CAS Number: 10061-02-6

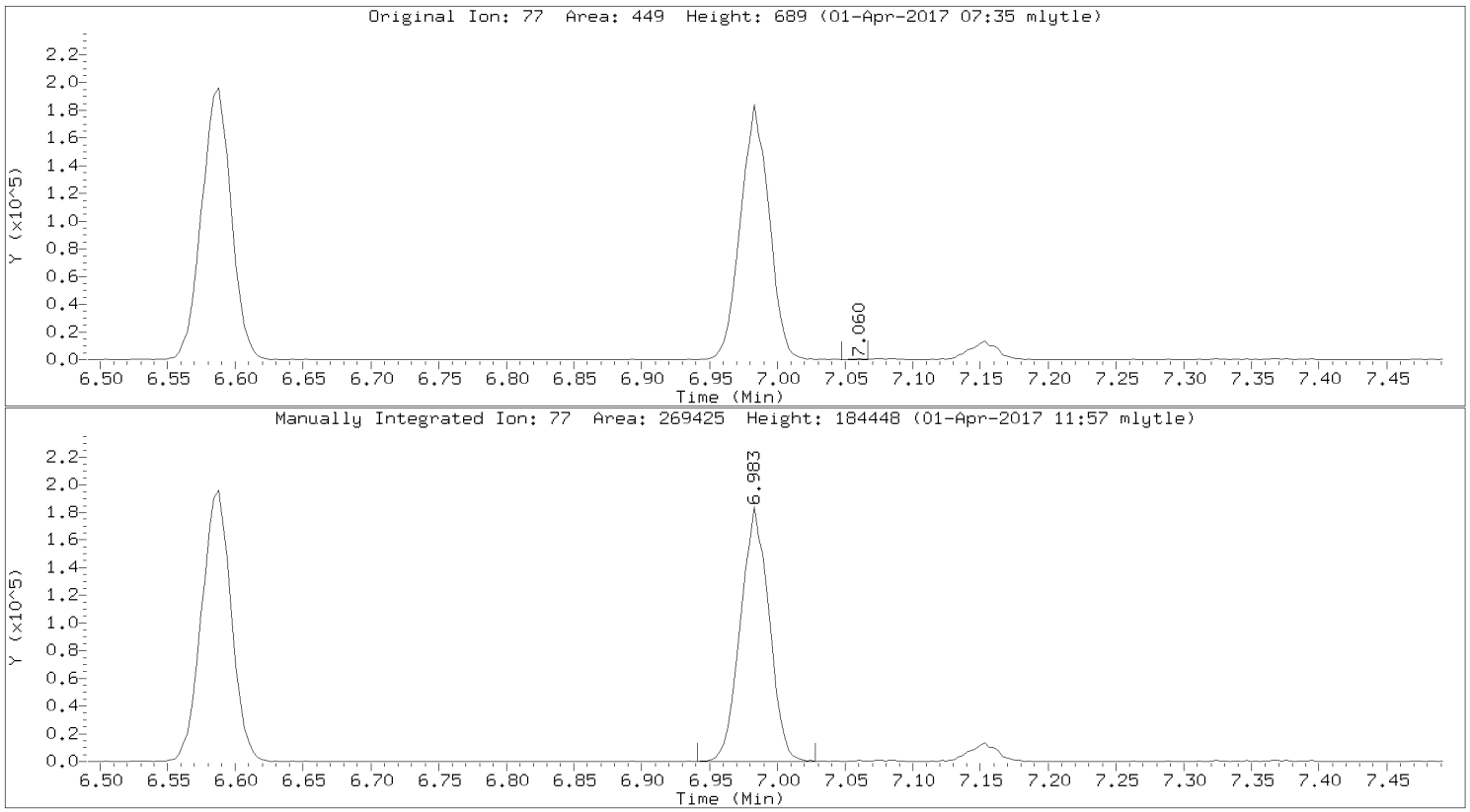






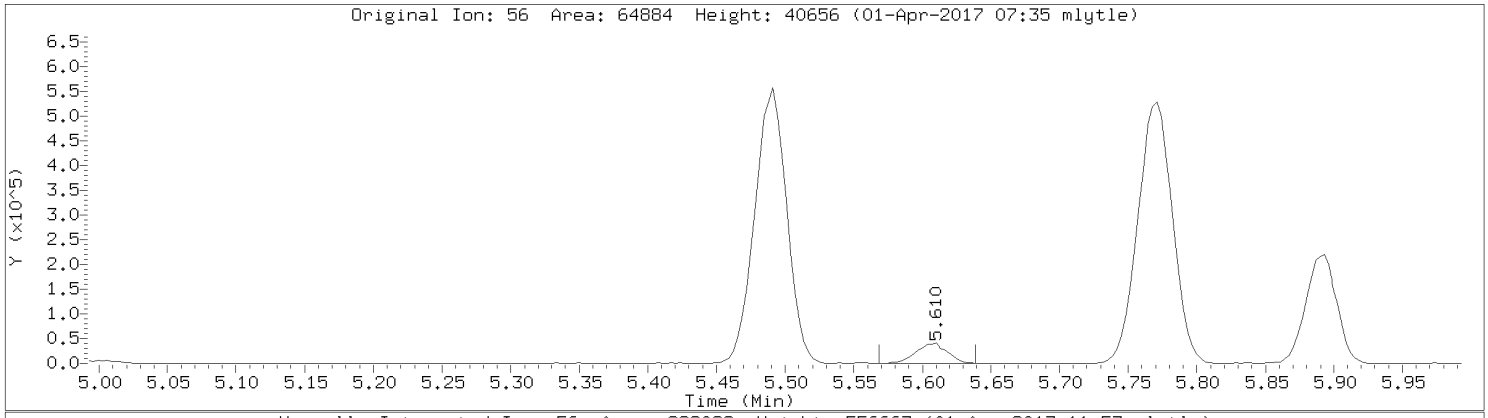


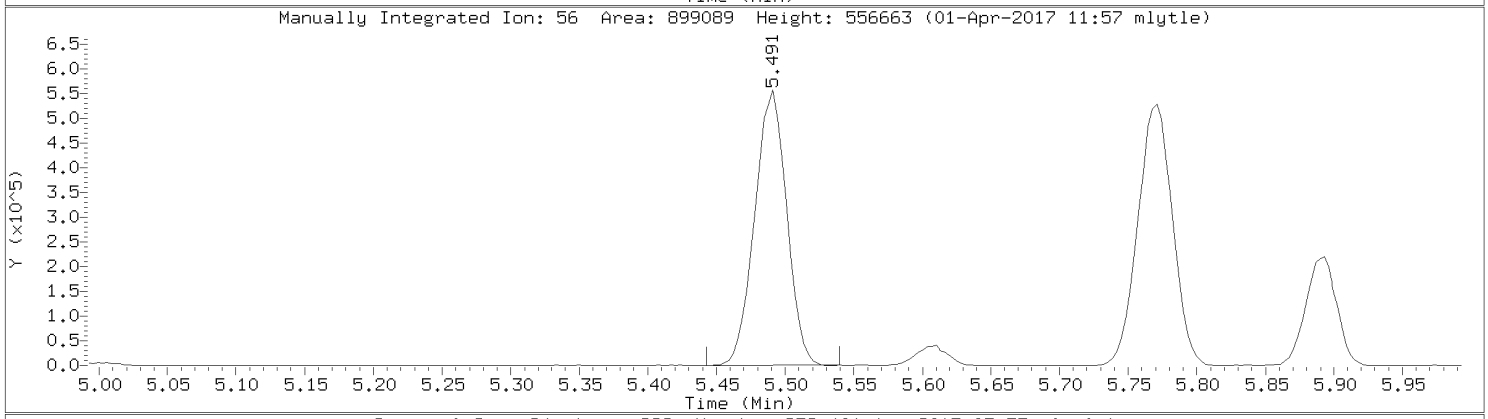
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

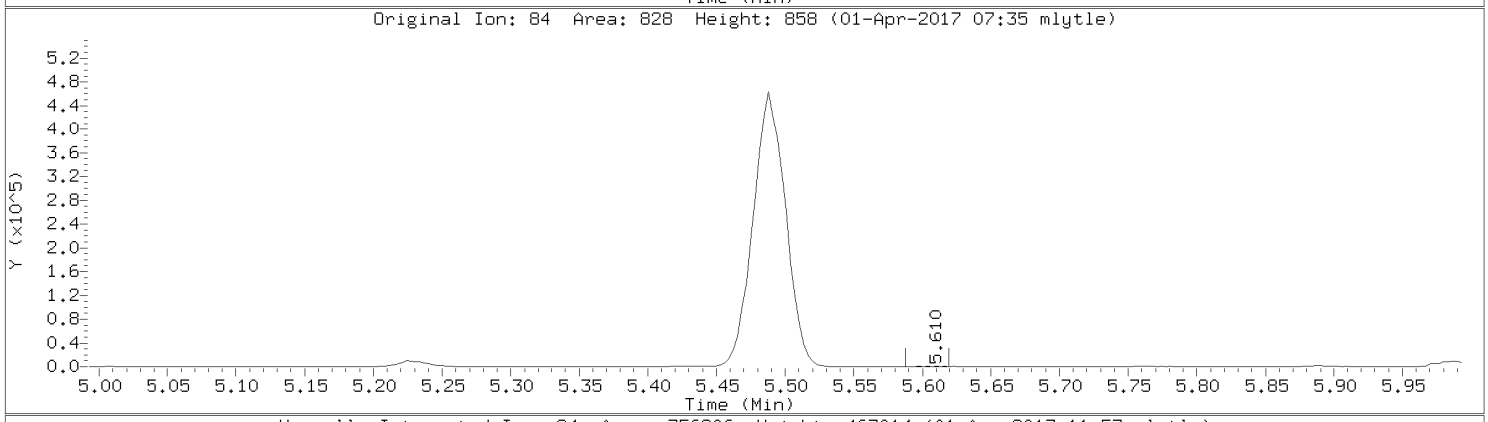


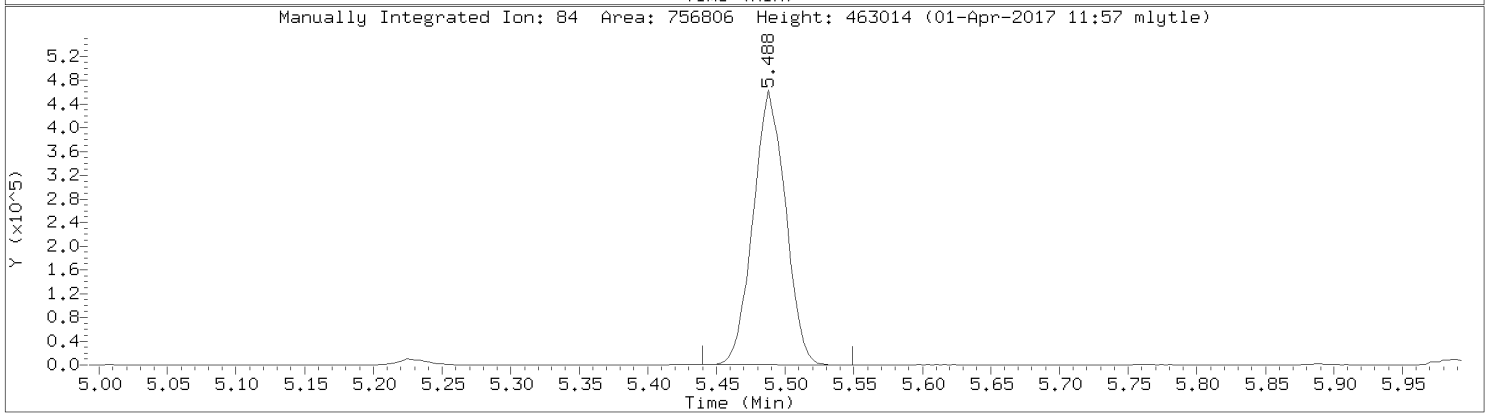
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: Cyclohexane
CAS Number: 110-82-7

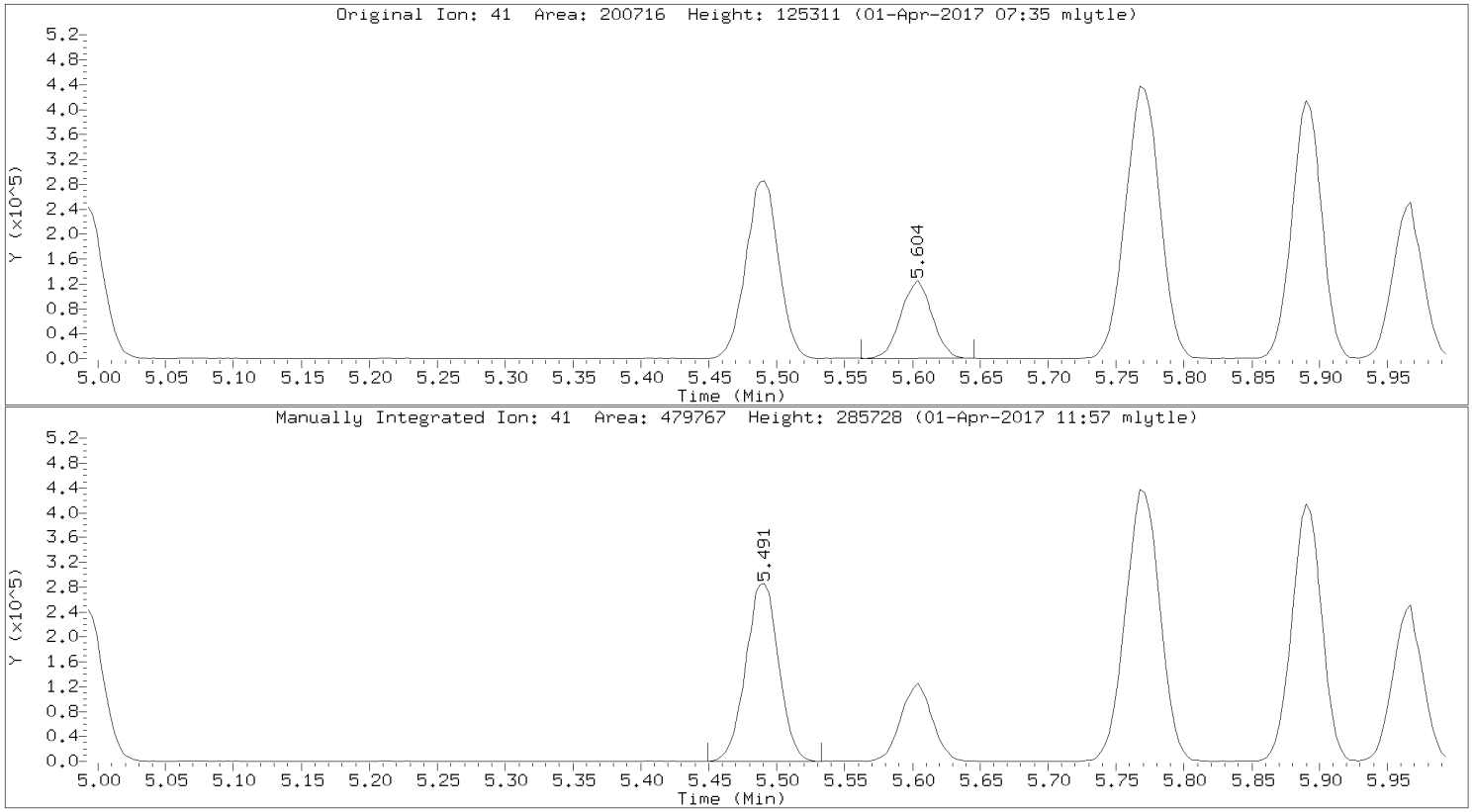






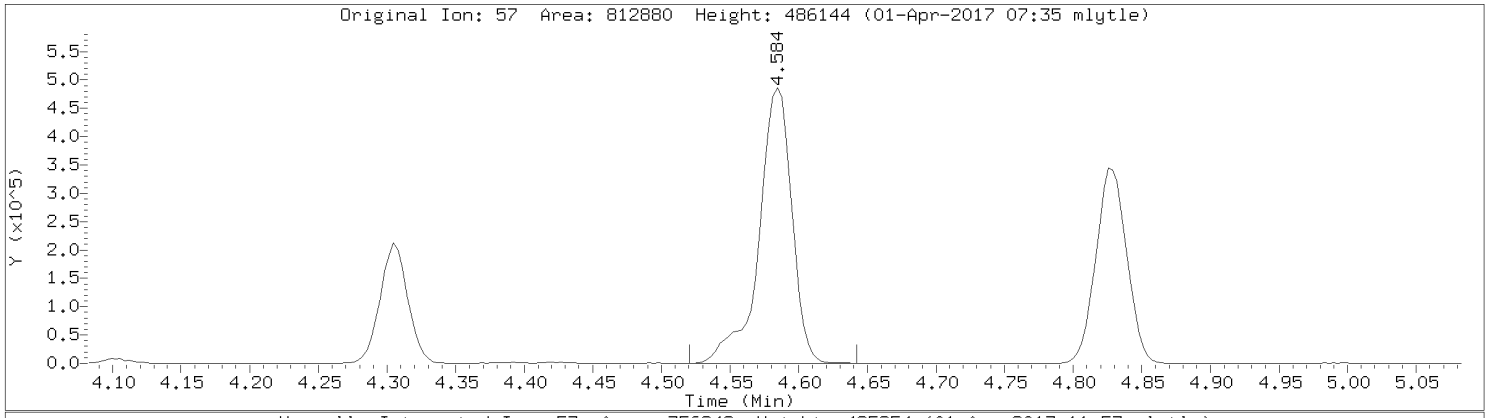


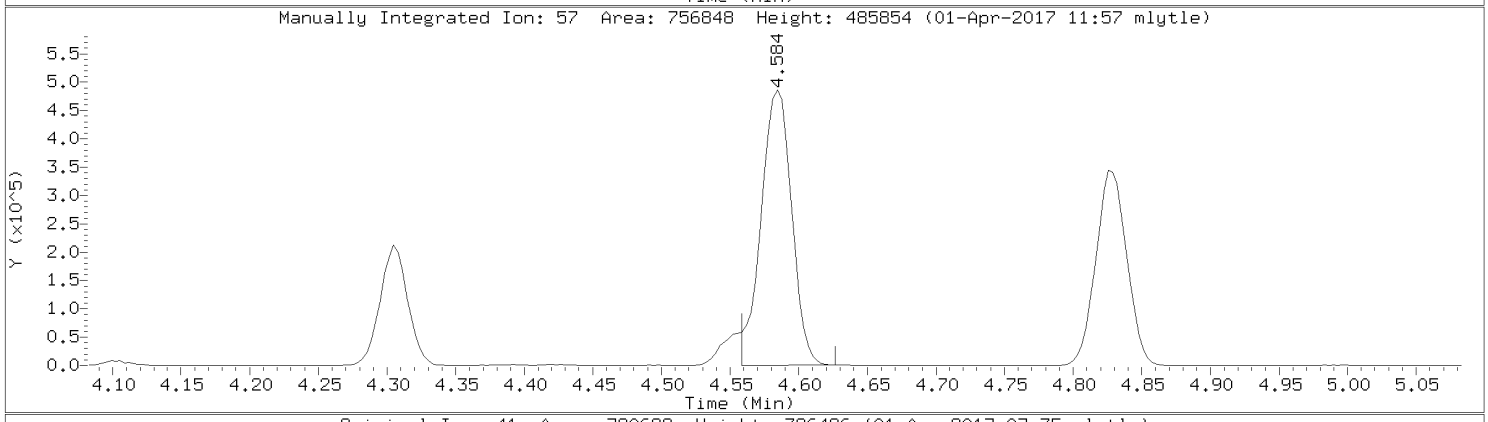
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

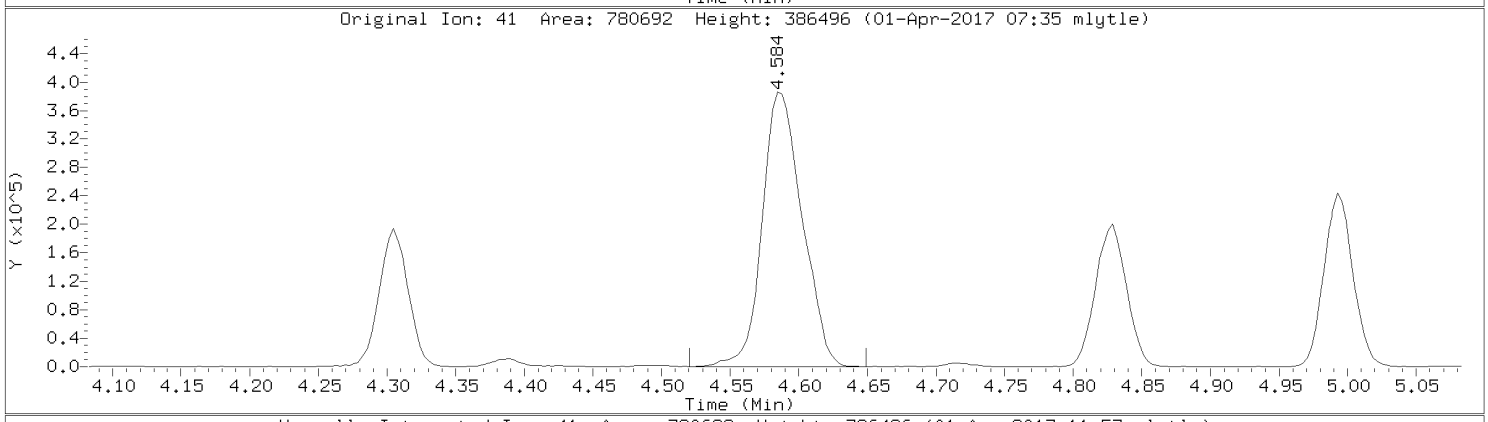


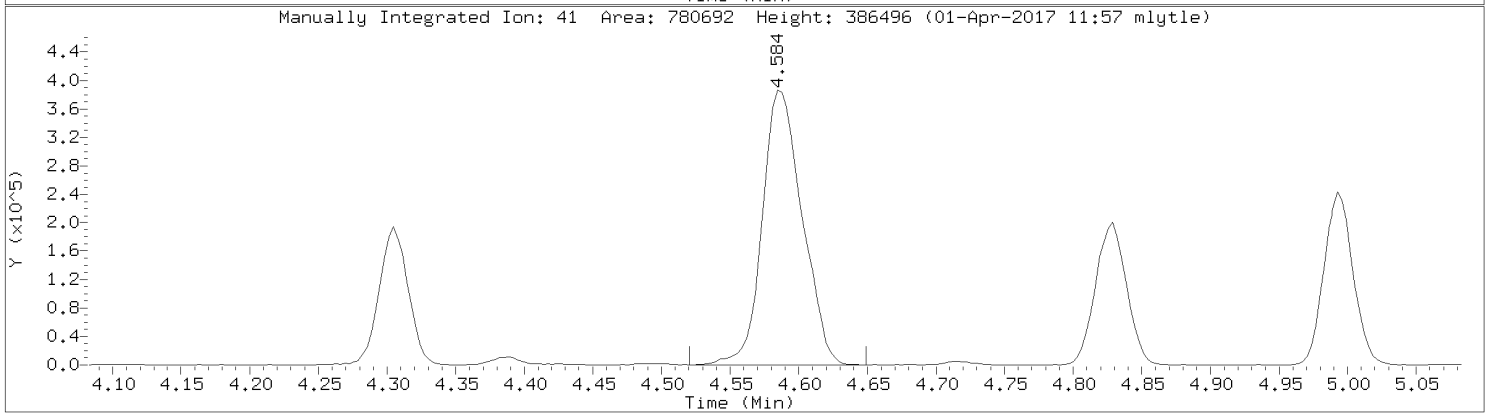
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: n-Hexane
CAS Number: 110-54-3

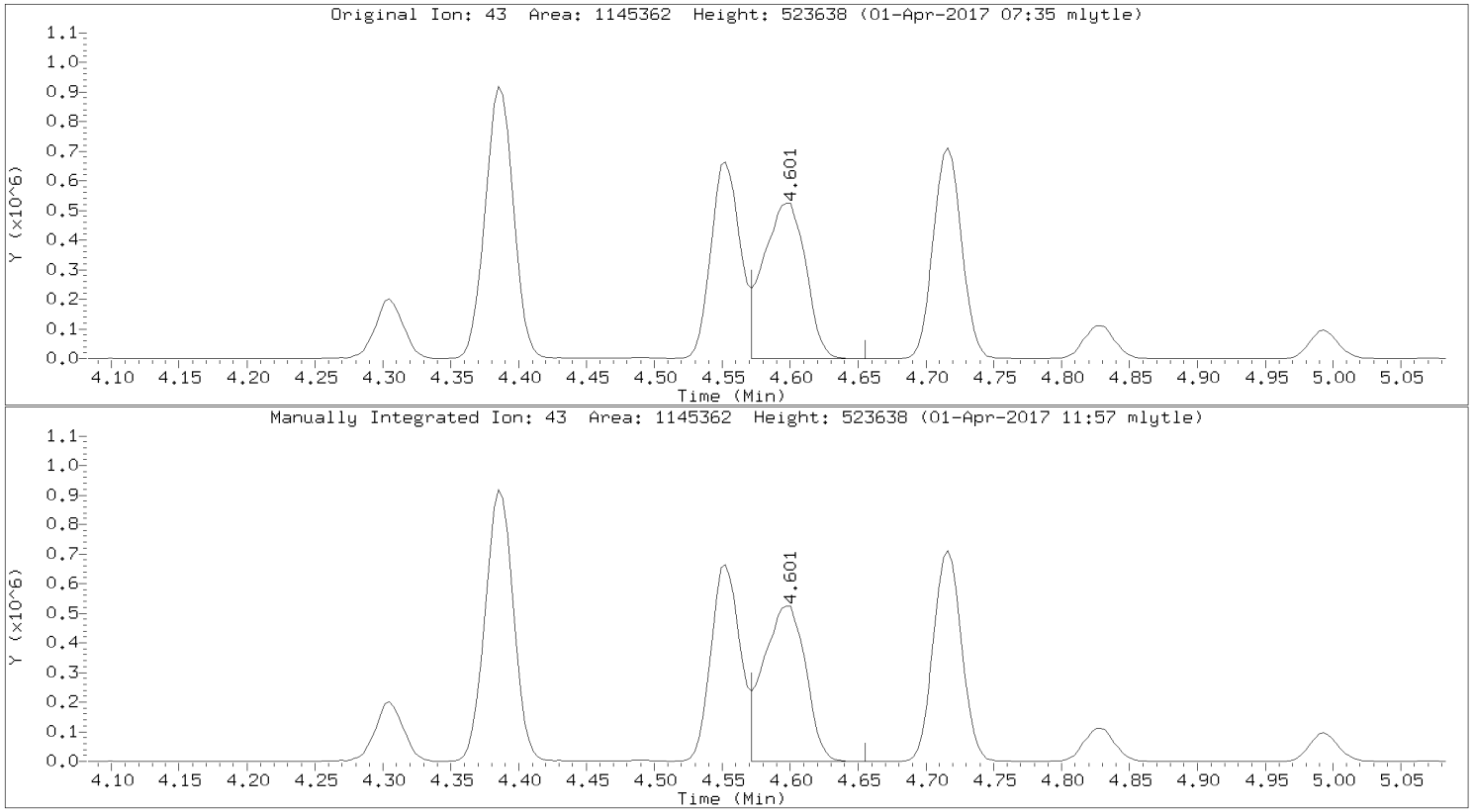






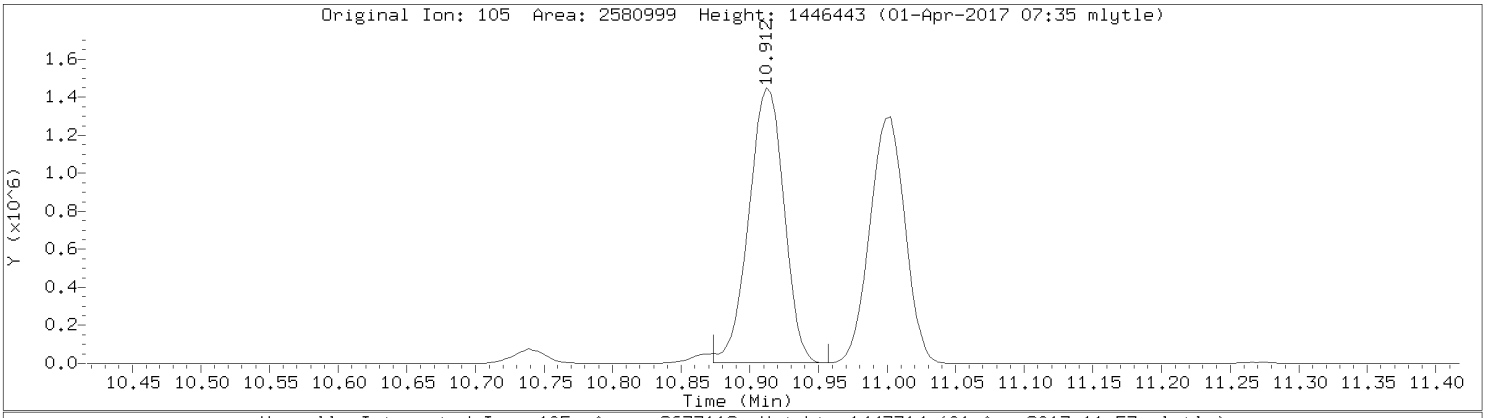


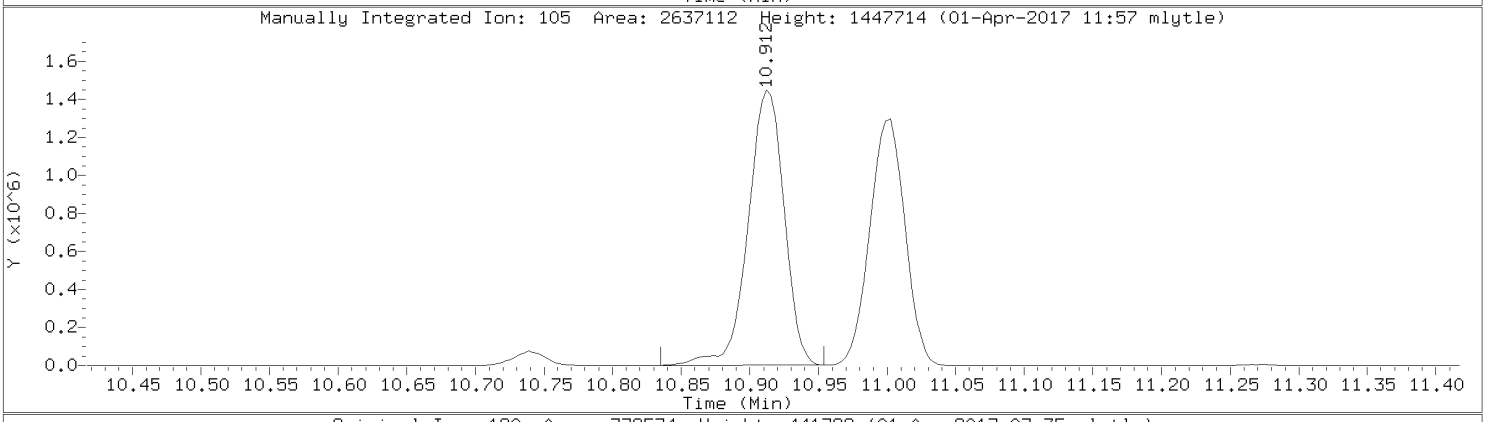
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

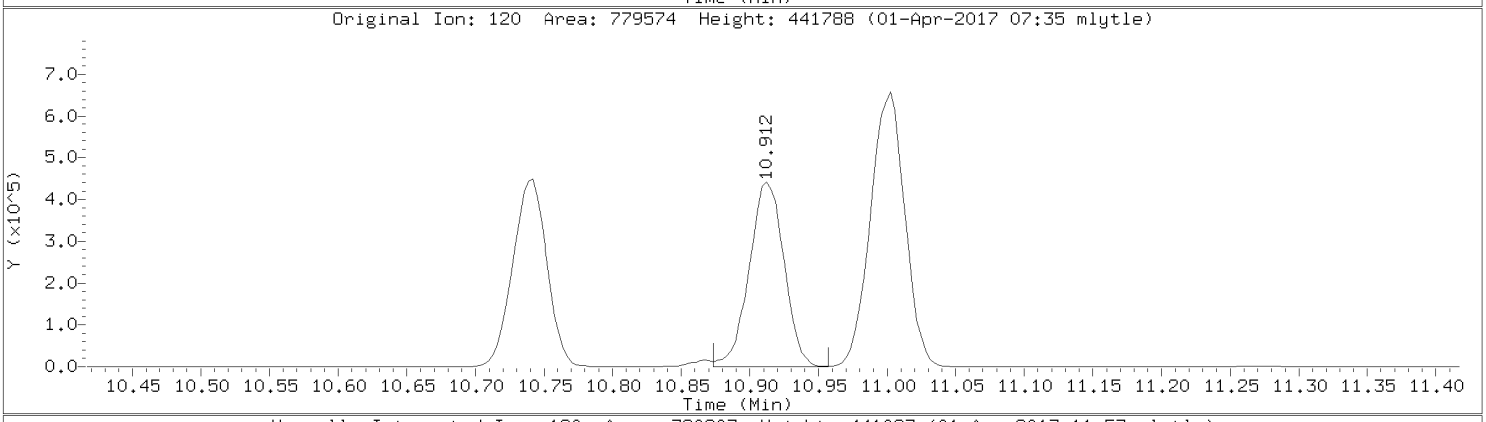


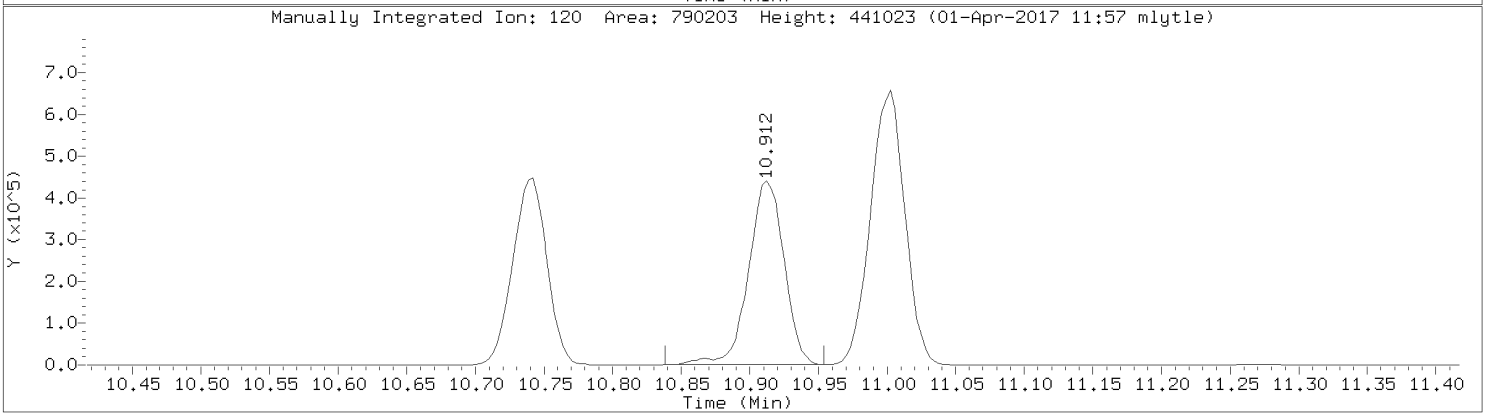
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

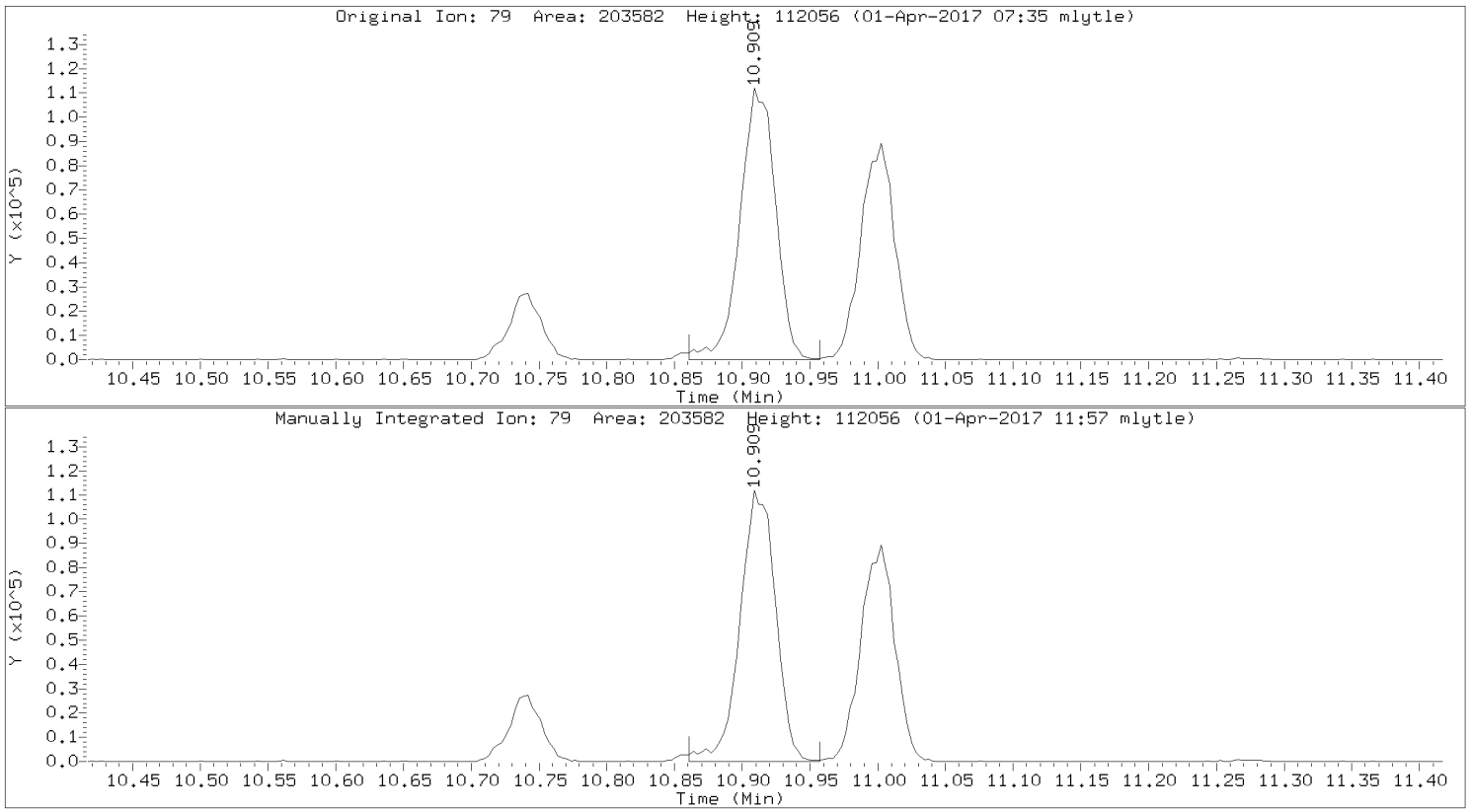






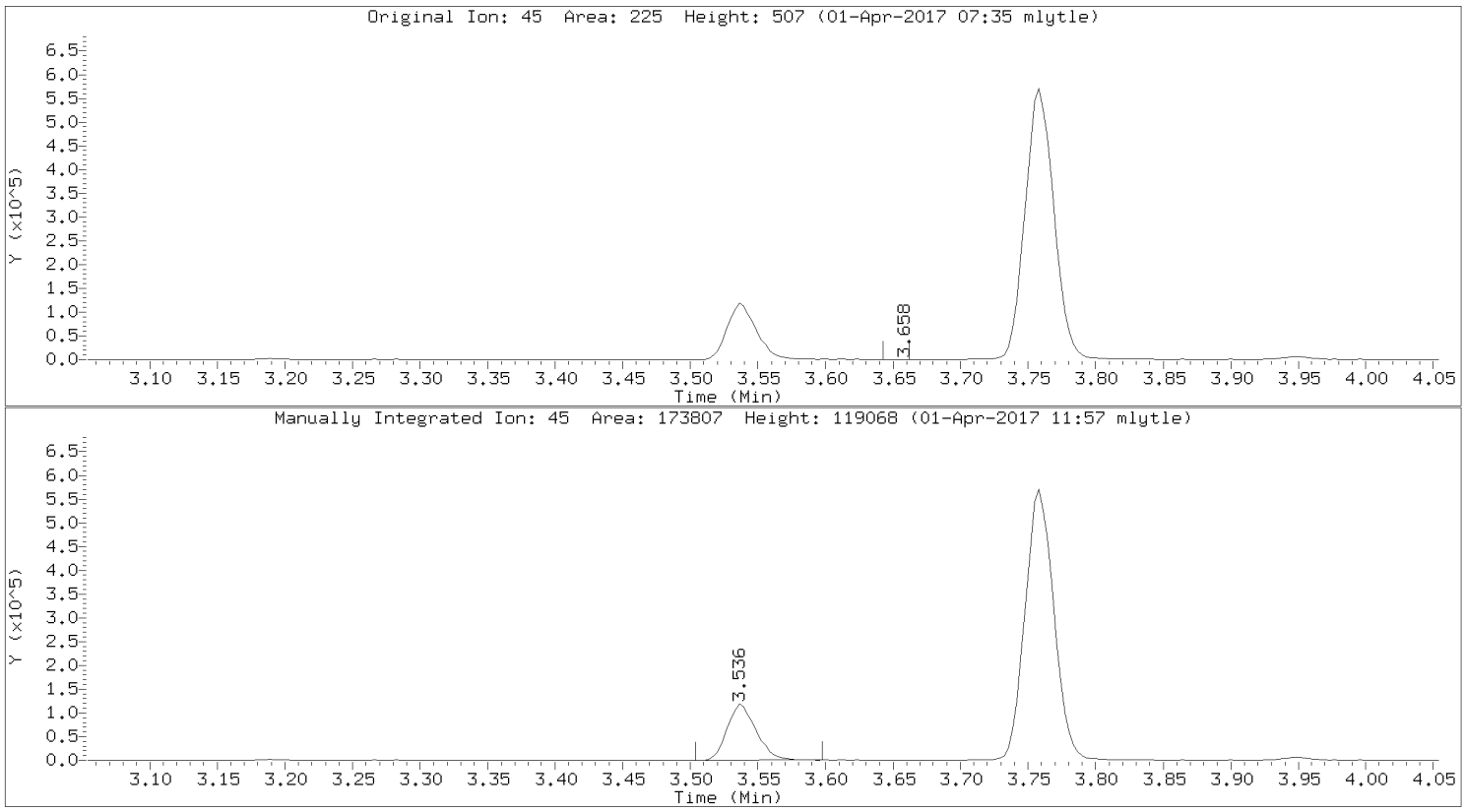


Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV



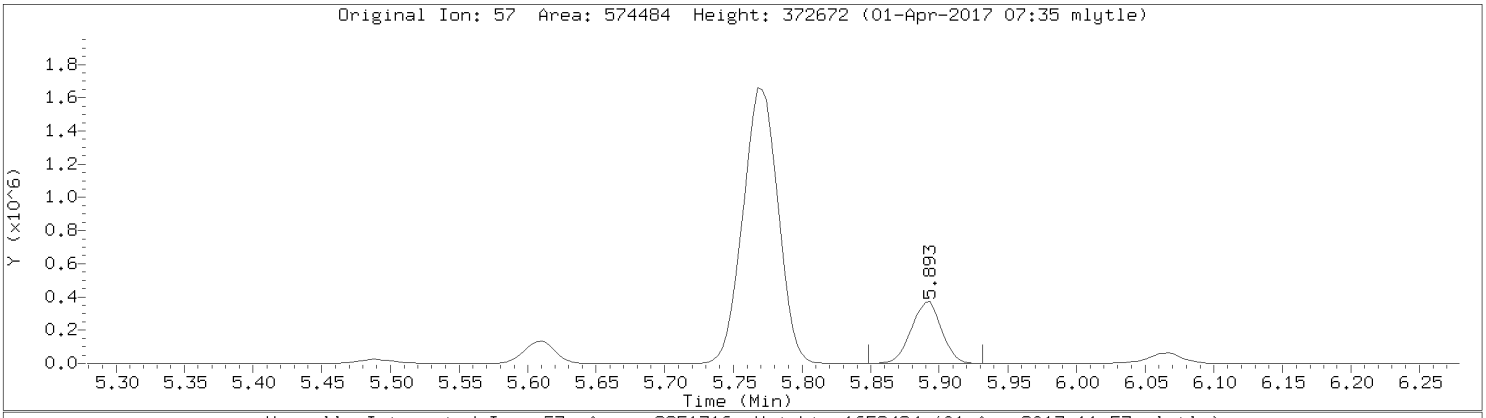
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

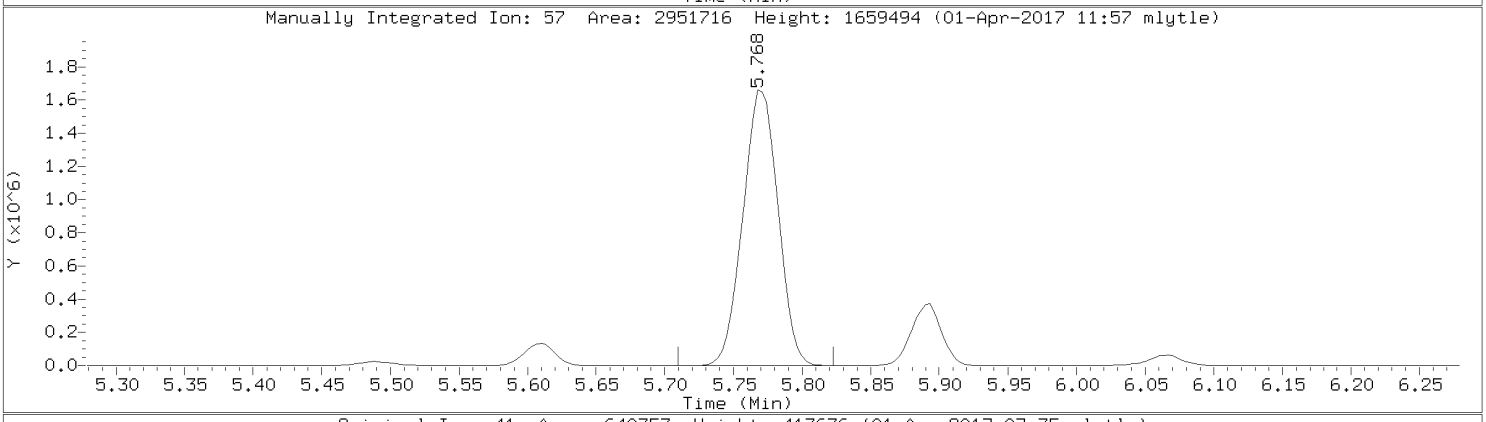
Compound: Ethanol
CAS Number: 64-17-5

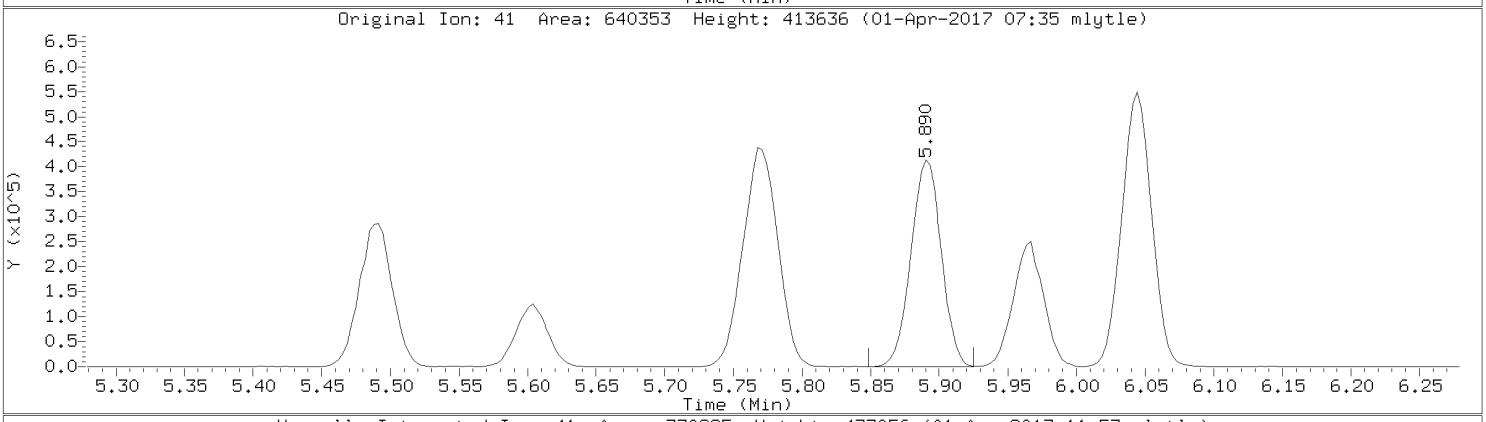


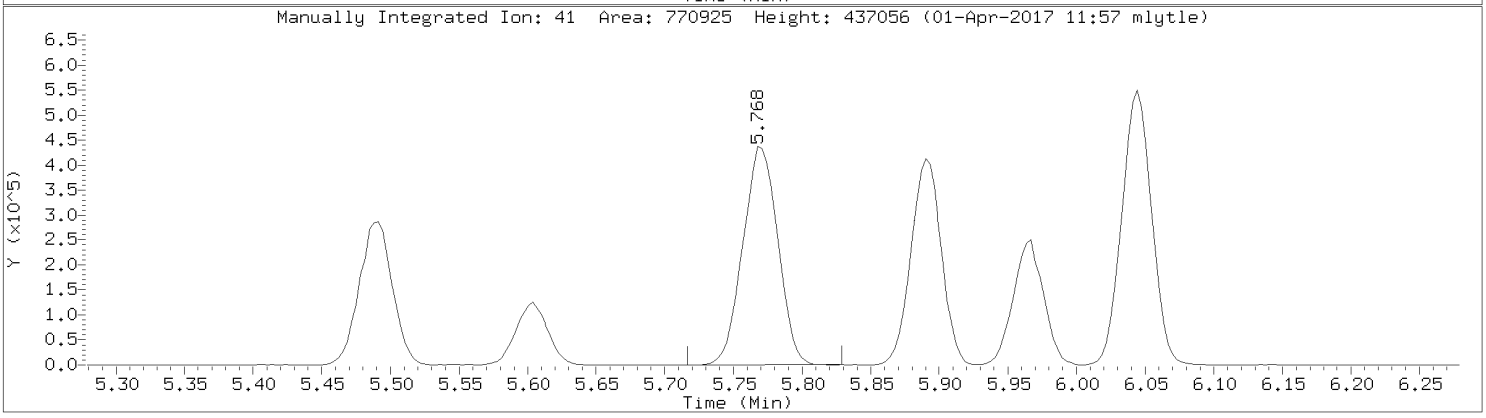
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

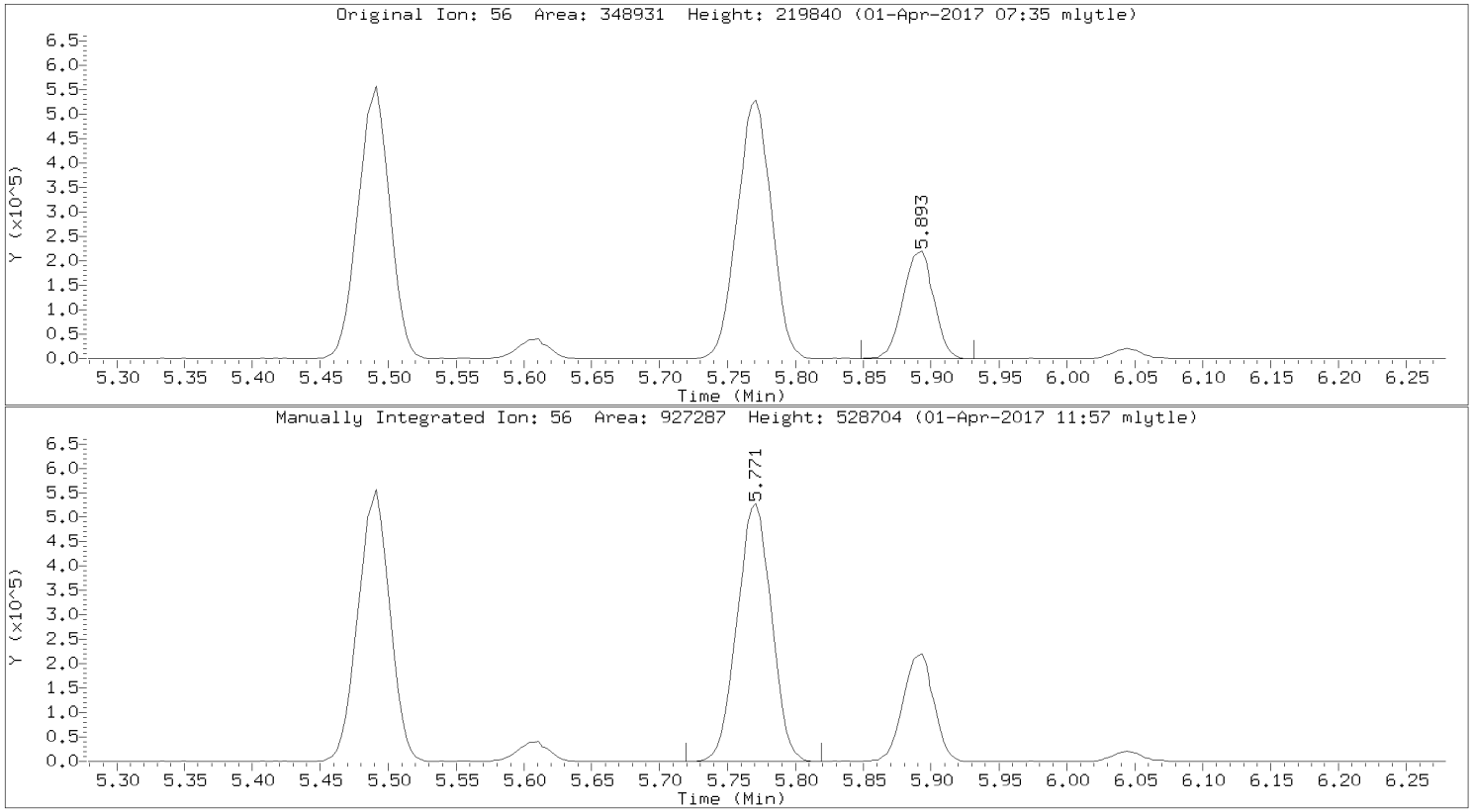






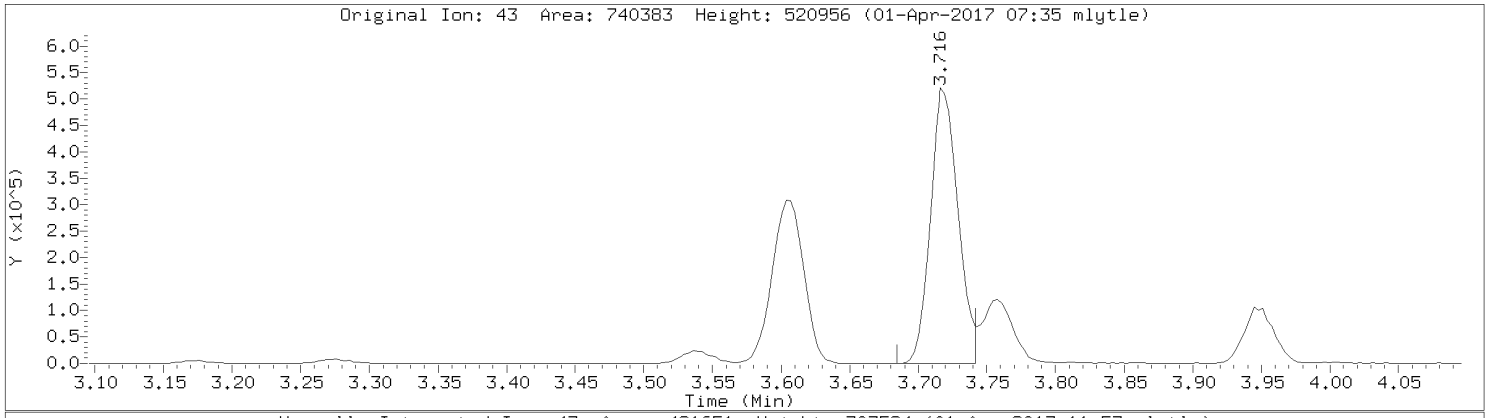


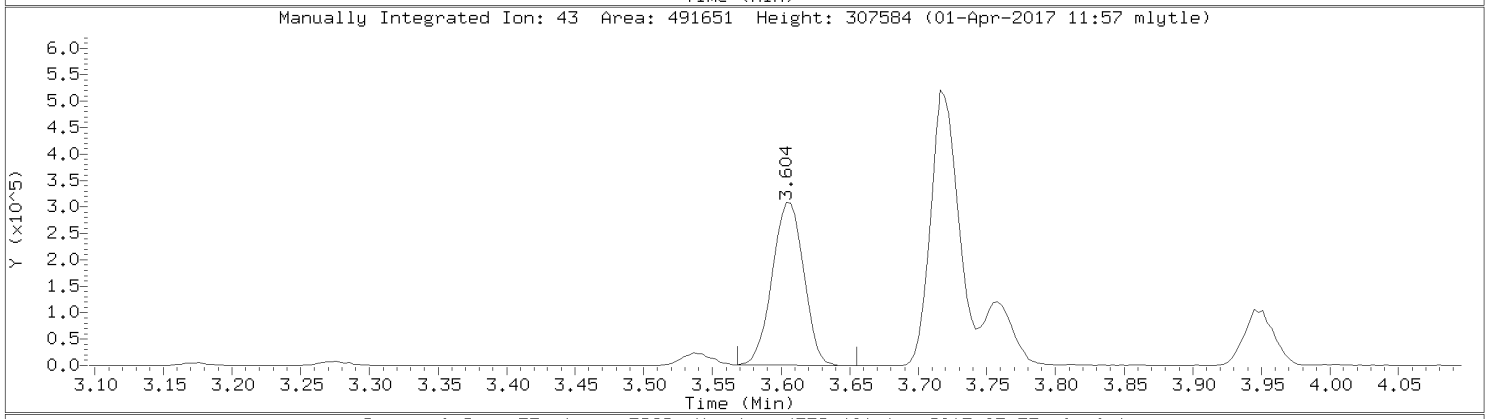
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

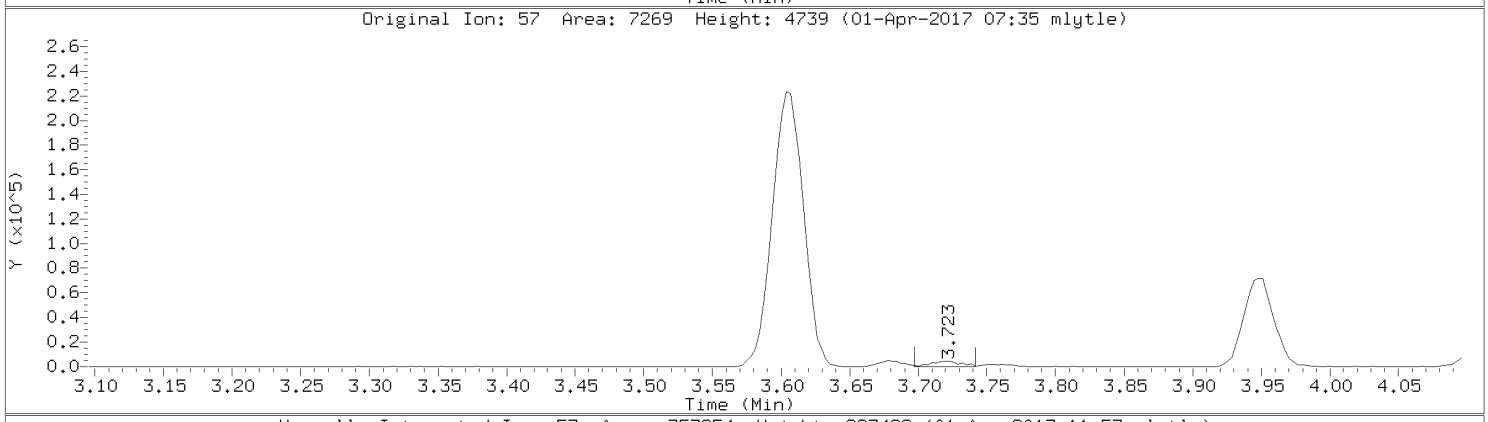


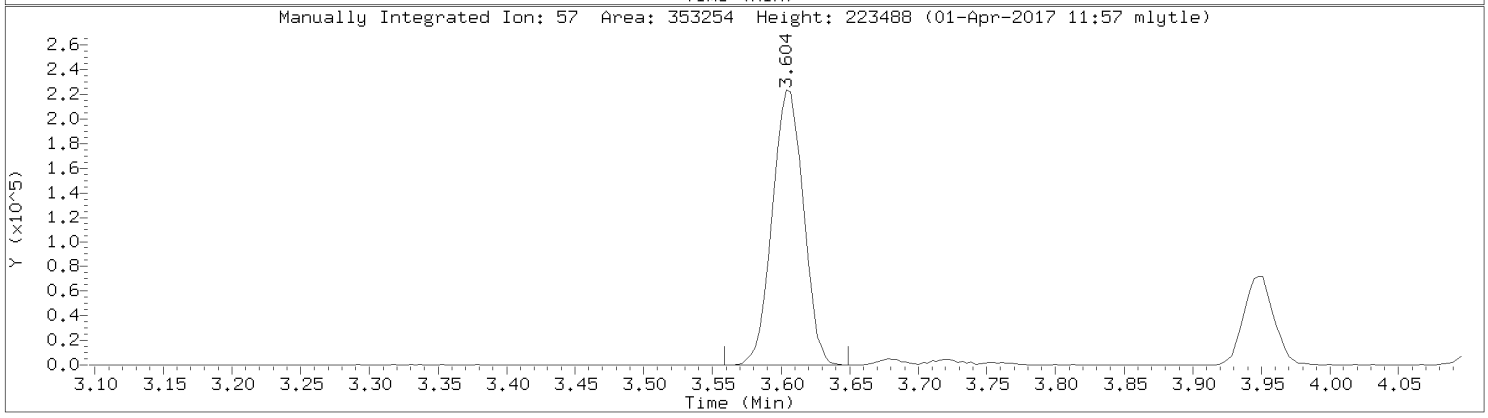
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: Isopentane
CAS Number: 78-78-4

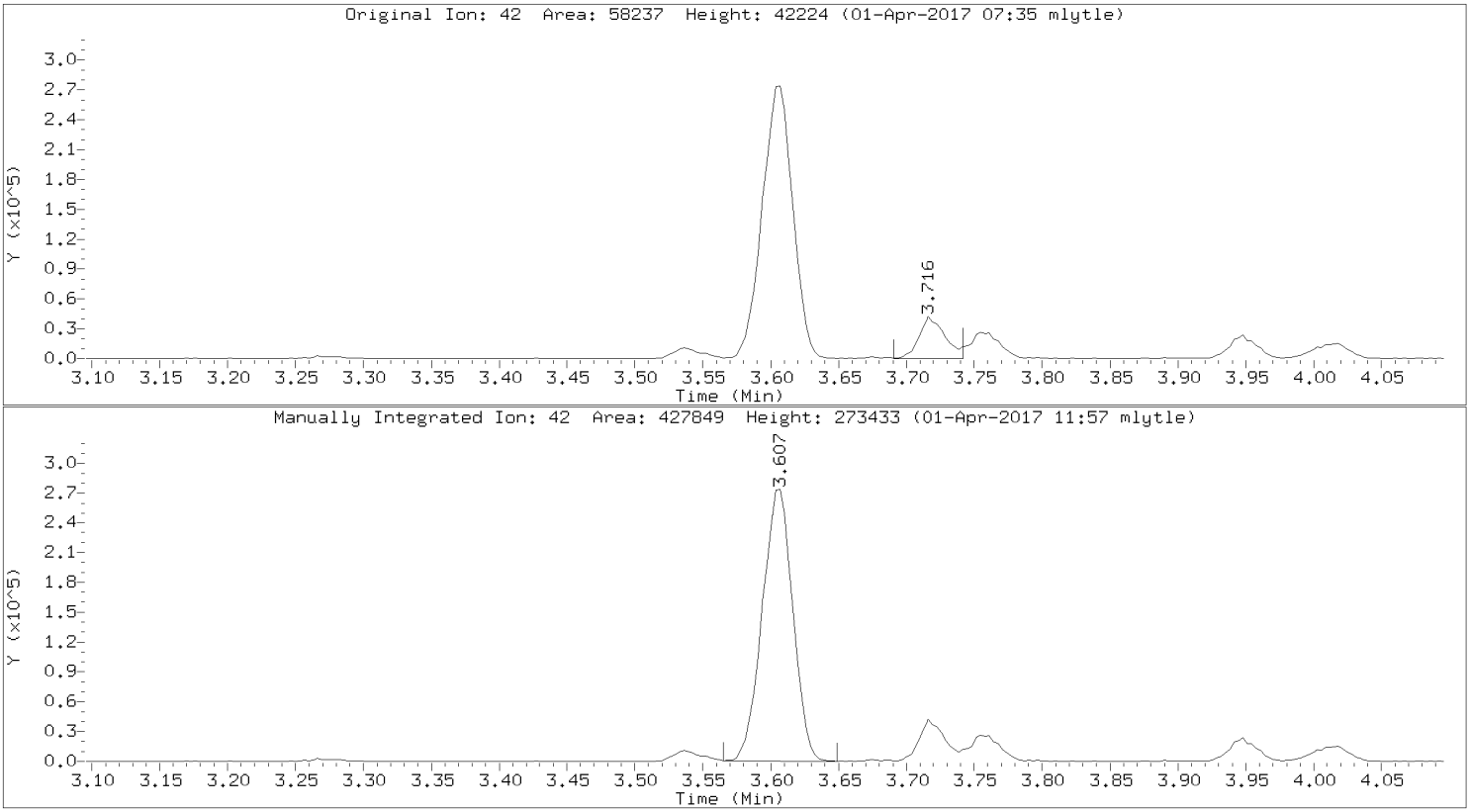






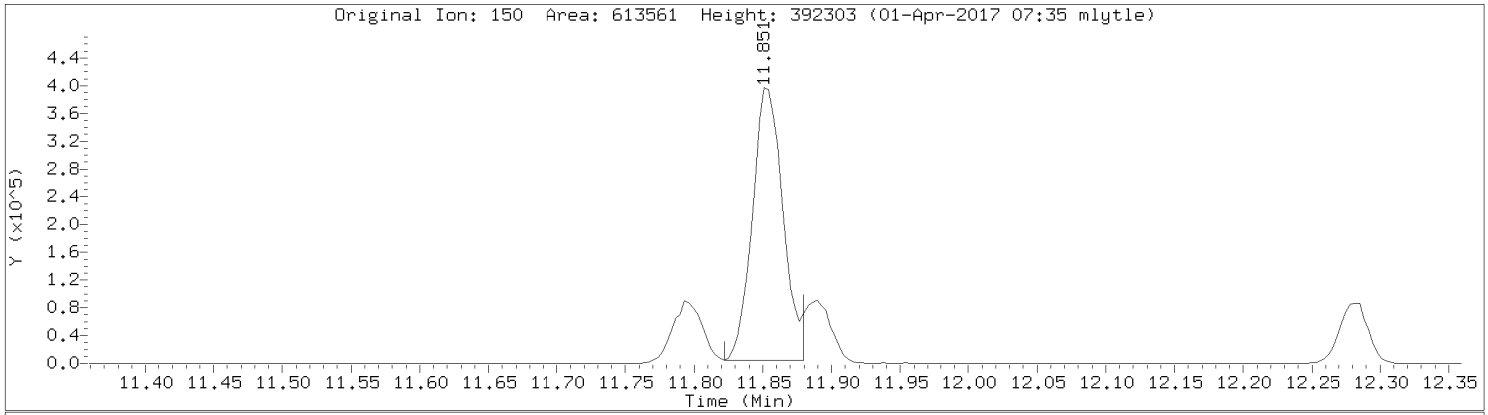


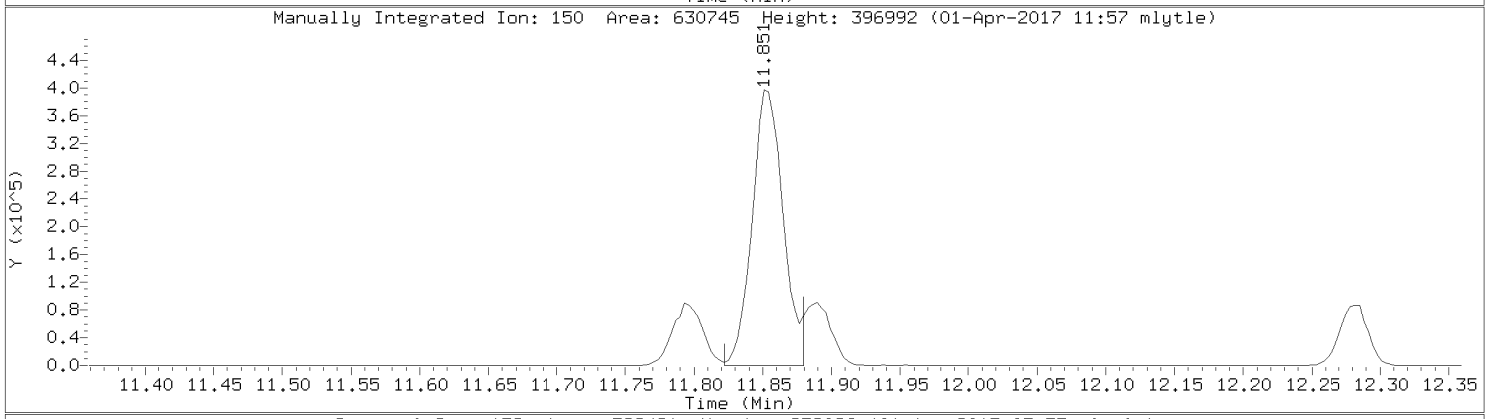
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

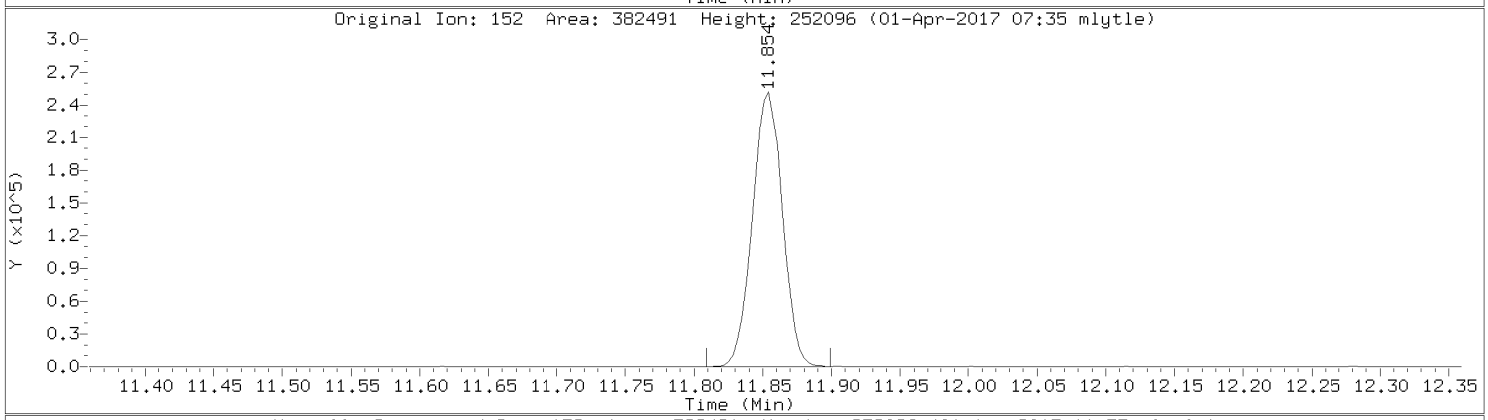


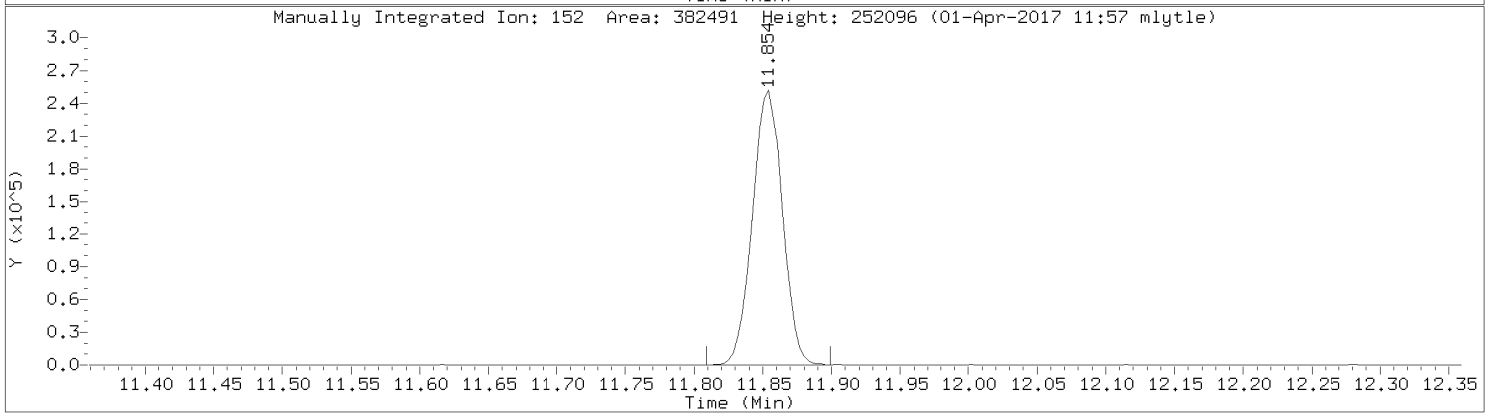
Data File: \\192.168.10.12\chem\10airB.i\033117.b/09010.D
Injection Date: 31-MAR-2017 19:23
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 28-MAR-2017 09:50
Lab File ID: 08702.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	++++	0.19708	0.010	++++	30.00000	Quad	(a)	<-
	2 1,1-Difluoroethane	0.11380	0.14146	0.14146	0.010	24.31163	30.00000	Aver		
	3 Chlorodifluoromethane	0.05116	0.06187	0.06187	0.010	20.93321	30.00000	Aver		
	4 Propylene	0.14949	0.16925	0.16925	0.010	13.21571	30.00000	Aver		
	5 Dichlorodifluoromethane	0.55046	0.63042	0.63042	0.010	14.52687	30.00000	Aver		
	6 Chloromethane	0.22703	0.28335	0.28335	0.010	24.80929	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.49168	0.60031	0.60031	0.010	22.09404	30.00000	Aver		
	8 Vinyl chloride	0.18768	0.24324	0.24324	0.010	29.59977	30.00000	Aver		
	9 1,3-Butadiene	0.14175	0.18036	0.18036	0.010	27.23495	30.00000	Aver		
	10 Bromomethane	0.15012	0.18263	0.18263	0.010	21.65640	30.00000	Aver		
	11 Chloroethane	0.07942	0.09940	0.09940	0.010	25.15636	30.00000	Aver		
	12 Ethanol	0.06631	0.08248	0.08248	0.005	24.39966	30.00000	Aver		
	13 Vinyl Bromide	0.15115	0.17958	0.17958	0.010	18.81338	30.00000	Aver		
	14 Isopentane	0.18869	0.22957	0.22957	0.010	21.66730	30.00000	Aver		
	15 Freon 123	10.00000	11.77496	0.26010	0.010	17.74960	30.00000	Quad		
	16 Trichlorofluoromethane	0.38532	0.47282	0.47282	0.010	22.70852	30.00000	Aver		
	17 Acrolein	0.06060	0.07514	0.07514	0.010	24.00294	30.00000	Aver		
	18 Acetone	0.26126	0.31034	0.31034	0.010	18.78621	30.00000	Aver		
	19 Isopropyl Alcohol	0.29407	0.35412	0.35412	0.010	20.41750	30.00000	Aver		
	20 1,1-Dichloroethene	0.27126	0.32428	0.32428	0.010	19.54683	30.00000	Aver		
	21 Acrylonitrile	0.13332	0.16583	0.16583	0.010	24.38446	30.00000	Aver		
	22 Freon 113	0.30942	0.36273	0.36273	0.010	17.23058	30.00000	Aver		
	23 Methyl Acetate	0.42963	0.51244	0.51244	0.010	19.27487	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.37351	0.43779	0.43779	0.010	17.21024	30.00000	Aver		
	25 Methylene chloride	0.20028	0.23433	0.23433	0.010	16.99918	30.00000	Aver		
	26 Allyl Chloride	0.05286	0.05542	0.05542	0.010	4.83705	30.00000	Aver		
	27 Carbon Disulfide	0.35342	0.41813	0.41813	0.010	18.30961	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.15127	0.17797	0.17797	0.010	17.65324	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.40319	0.47302	0.47302	0.010	17.31817	30.00000	Aver		
	30 Vinyl Acetate	0.43945	0.52239	0.52239	0.010	18.87419	30.00000	Aver		
	31 1,1-Dichloroethane	0.29418	0.35349	0.35349	0.010	20.16093	30.00000	Aver		
$	32 Hexane-d14(S)	0.37513	0.36712	0.36712	0.010	-2.13532	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.08007	0.08736	0.08736	0.010	9.11285	30.00000	Aver		
	34 n-Hexane	0.29582	0.34725	0.34725	0.010	17.38284	30.00000	Aver		
	35 Di-isopropyl Ether	0.58031	0.68487	0.68487	0.010	18.01847	30.00000	Aver		
	36 Ethyl Acetate	0.37982	0.44613	0.44613	0.010	17.45963	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.16587	0.19475	0.19475	0.010	17.40818	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.58893	0.68374	0.68374	0.010	16.09834	30.00000	Aver		
	39 Chloroform	0.32904	0.39322	0.39322	0.010	19.50359	30.00000	Aver		
	40 Tetrahydrofuran	0.22863	0.27301	0.27301	0.010	19.41452	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.42732	0.51213	0.51213	0.010	19.84714	30.00000	Aver		
	42 1,2-Dichloroethane	0.32794	0.39219	0.39219	0.010	19.59025	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 28-MAR-2017 09:50
Lab File ID: 08702.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.57680	0.67811	0.67811	0.010	17.56420	30.00000	Aver		
	44 Carbon tetrachloride	0.41321	0.50954	0.50954	0.010	23.31405	30.00000	Aver		
	45 Cyclohexane	0.33146	0.38527	0.38527	0.010	16.23648	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.87133	0.68218	0.010	18.71331	30.00000	Line		
	48 2,2,4-Trimethylpentane	1.01062	1.18242	1.18242	0.010	16.99871	30.00000	Aver		
	49 Heptane	0.36402	0.43966	0.43966	0.010	20.78068	30.00000	Aver		
	50 1,2-Dichloropropane	0.22682	0.27415	0.27415	0.010	20.86263	30.00000	Aver		
	51 Trichloroethene	0.30270	0.36276	0.36276	0.010	19.84062	30.00000	Aver		
	52 Methyl methacrylate	0.20605	0.24478	0.24478	0.010	18.79534	30.00000	Aver		
	53 1,4-Dioxane	0.14082	0.17169	0.17169	0.010	21.92502	30.00000	Aver		
	54 Bromodichloromethane	0.40173	0.51112	0.51112	0.010	27.22916	30.00000	Aver		
	55 Methylcyclohexane	0.17064	0.20147	0.20147	0.010	18.06289	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.49439	0.59882	0.59882	0.010	21.12208	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.32591	0.40503	0.40503	0.010	24.27575	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	11.27528	0.37112	0.010	12.75278	30.00000	Line		
$	59 Toluene-d8 (S)	0.84305	0.87997	0.87997	0.010	4.37953	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.24057	0.28984	0.28984	0.010	20.47973	30.00000	Aver		
	61 Toluene	0.70188	0.85093	0.85093	0.010	21.23539	30.00000	Aver		
	62 Methyl Butyl Ketone	0.70333	0.85055	0.85055	0.010	20.93184	30.00000	Aver		
	63 n-Octane	0.78573	0.89078	0.89078	0.010	13.36941	30.00000	Aver		
	64 Dibromochloromethane	0.69204	0.85327	0.85327	0.010	23.29829	30.00000	Aver		
	65 1,2-Dibromoethane	0.62331	0.73292	0.73292	0.010	17.58616	30.00000	Aver		
	66 Tetrachloroethene	0.65492	0.70349	0.70349	0.010	7.41574	30.00000	Aver		
	68 Chlorobenzene	0.94970	1.08526	1.08526	0.010	14.27350	30.00000	Aver		
	69 Ethyl Benzene	1.46564	1.69171	1.69171	0.010	15.42438	30.00000	Aver		
	70 m&p-Xylene	1.11981	1.27283	1.27283	0.010	13.66483	30.00000	Aver		
	71 n-Nonane	0.69761	0.81722	0.81722	0.010	17.14544	30.00000	Aver		
	72 Bromoform	0.53416	0.67191	0.67191	0.010	25.78888	30.00000	Aver		
	73 Styrene	0.82284	0.99223	0.99223	0.010	20.58708	30.00000	Aver		
	74 o-Xylene	1.14924	1.30723	1.30723	0.010	13.74751	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.62364	0.75536	0.75536	0.010	21.12118	30.00000	Aver		
	76 Isopropylbenzene	1.55759	1.79013	1.79013	0.010	14.92925	30.00000	Aver		
	77 N-Propylbenzene	1.63599	2.01876	2.01876	0.010	23.39694	30.00000	Aver		
	78 4-Ethyltoluene	1.39044	1.70232	1.70232	0.010	22.43041	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.22171	1.45503	1.45503	0.010	19.09774	30.00000	Aver		
	80 n-Decane	0.43302	0.57422	0.57422	0.010	32.60814	30.00000	Aver		<-
	81 Tert-Butyl Benzene	1.30443	1.50485	1.50485	0.010	15.36446	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.08502	1.33157	1.33157	0.010	22.72380	30.00000	Aver		
	83 1,3-Dichlorobenzene	10.00000	11.32510	0.84636	0.010	13.25102	30.00000	Quad		
	84 Sec- Butylbenzene	1.53952	1.87894	1.87894	0.010	22.04738	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.47472	0.54905	0.54905	0.010	15.65918	30.00000	Aver	(M)	
	86 Benzyl Chloride	10.00000	10.62607	0.82136	0.010	6.26069	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 28-MAR-2017 09:50
Lab File ID: 08702.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	10.00000	11.70464	0.83626	0.010	17.04639	30.00000	Line	
88 p-Isopropyltoluene	1.29538	1.63086	1.63086	0.010	25.89859	30.00000	Aver	
89 1,2,3-Trimethylbenzene	1.04466	1.28867	1.28867	0.010	23.35801	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	11.57667	0.78277	0.010	15.76675	30.00000	Line	
91 N-Butylbenzene	10.00000	11.92960	1.24543	0.010	19.29596	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.72581	0.25901	0.010	7.25812	30.00000	Quad	
93 1,2,4-Trichlorobenzene	10.00000	11.00432	0.18275	0.010	10.04324	30.00000	Quad	
94 Naphthalene	10.00000	11.15444	0.49697	0.010	11.54441	30.00000	Quad	
95 Hexachlorobutadiene	0.21547	0.25520	0.25520	0.010	18.44116	30.00000	Aver	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Average %D / Drift Results.
Calculated Average %D/Drift = 18.53476
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Lab Smp Id: ccv
Inj Date : 28-MAR-2017 09:50
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 28-Mar-2017 10:33 10airB.i Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2	1,1-Difluoroethane	65	2.986	2.986	(0.532)	328818	10.0000	12.4
3	Chlorodifluoromethane	67	2.996	2.996	(0.534)	143814	10.0000	12.1
4	Propylene	41	2.996	2.996	(0.534)	393398	10.0000	11.3
5	Dichlorodifluoromethane	85	3.028	3.028	(0.540)	1465350	10.0000	11.5
6	Chloromethane	50	3.127	3.127	(0.558)	658619	10.0000	12.5
7	Dichlorotetrafluoroethane	85	3.140	3.140	(0.560)	1395361	10.0000	12.2
8	Vinyl chloride	62	3.208	3.208	(0.572)	565381	10.0000	13.0
9	1,3-Butadiene	54	3.253	3.253	(0.580)	419224	10.0000	12.7
10	Bromomethane	94	3.391	3.391	(0.605)	424500	10.0000	12.2
11	Chloroethane	64	3.442	3.442	(0.614)	231039	10.0000	12.5
12	Ethanol	45	3.539	3.539	(0.631)	958629	50.0000	62.2
13	Vinyl Bromide	106	3.565	3.565	(0.635)	417421	10.0000	11.9
14	Isopentane	43	3.581	3.581	(0.638)	533621	10.0000	12.2
15	Freon 123	83	3.626	3.626	(0.646)	604585	10.0000	11.8
16	Trichlorofluoromethane	101	3.658	3.658	(0.652)	1099011	10.0000	12.3
17	Acrolein	56	3.674	3.674	(0.655)	436640	25.0000	31.0
18	Acetone	43	3.713	3.713	(0.662)	3606781	50.0000	59.4
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	4115525	50.0000	60.2
20	1,1-Dichloroethene	61	3.896	3.896	(0.695)	753755	10.0000	12.0
21	Acrylonitrile	53	3.922	3.922	(0.699)	963643	25.0000	31.1
22	Freon 113	101	3.938	3.938	(0.702)	843126	10.0000	11.7
23	Methyl Acetate	43	3.954	3.954	(0.705)	1191104	10.0000	11.9
24	Tert Butyl Alcohol (TBA)	59	3.950	3.950	(0.704)	2543967	25.0000	29.3

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	25 Methylene chloride	49	3.999	3.999	(0.713)	2723359	50.0000	58.5
	26 Allyl Chloride	76	4.008	4.008	(0.715)	322038	25.0000	26.2
	27 Carbon Disulfide	76	4.111	4.111	(0.733)	971905	10.0000	11.8
	28 trans-1,2-dichloroethene	96	4.269	4.269	(0.761)	413670	10.0000	11.8
	29 Methyl Tert Butyl Ether	73	4.295	4.295	(0.766)	2748688	25.0000	29.3
	30 Vinyl Acetate	43	4.385	4.385	(0.782)	1214245	10.0000	11.9
	31 1,1-Dichloroethane	63	4.404	4.404	(0.785)	821652	10.0000	12.0
$	32 Hexane-d14(S)	66	4.478	4.478	(0.798)	853328	10.0000	9.79
	33 Methyl Ethyl Ketone	72	4.549	4.549	(0.811)	203070	10.0000	10.9
	34 n-Hexane	57	4.574	4.574	(0.815)	807134	10.0000	11.7
	35 Di-isopropyl Ether	45	4.597	4.597	(0.819)	1591905	10.0000	11.8
	36 Ethyl Acetate	43	4.712	4.712	(0.840)	1036982	10.0000	11.7
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	452671	10.0000	11.7
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.860)	3973214	25.0000	29.0
	39 Chloroform	83	4.838	4.838	(0.862)	913995	10.0000	12.0
	40 Tetrahydrofuran	42	4.992	4.992	(0.890)	634587	10.0000	11.9
	41 1,1,1-Trichloroethane	97	5.227	5.227	(0.932)	1190392	10.0000	12.0
	42 1,2-Dichloroethane	62	5.233	5.233	(0.933)	911592	10.0000	12.0
	43 Benzene	78	5.462	5.462	(0.974)	1576192	10.0000	11.8
	44 Carbon tetrachloride	117	5.481	5.481	(0.977)	1184371	10.0000	12.3
	45 Cyclohexane	56	5.484	5.484	(0.978)	895528	10.0000	11.6
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(0.998)	1585653	10.0000	11.9
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	2324391	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.767	(1.028)	6871004	25.0000	29.2
	49 Heptane	43	5.886	5.886	(1.049)	1021951	10.0000	12.1
	50 1,2-Dichloropropane	63	5.963	5.963	(1.063)	637221	10.0000	12.1
	51 Trichloroethene	130	5.986	5.986	(1.067)	843203	10.0000	12.0
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	568958	10.0000	11.9
	53 1,4-Dioxane	88	6.063	6.063	(1.081)	399079	10.0000	12.2
	54 Bromodichloromethane	83	6.082	6.082	(1.084)	1188052	10.0000	12.7
	55 Methylcyclohexane	98	6.433	6.433	(1.147)	468290	10.0000	11.8
	56 Methyl Isobutyl Ketone	43	6.526	6.526	(1.163)	3479723	25.0000	30.3
	57 cis-1,3-Dichloropropene	75	6.584	6.584	(1.174)	941437	10.0000	12.4
	58 trans-1,3-Dichloropropene	75	6.982	6.982	(1.245)	862618	10.0000	11.3
$	59 Toluene-d8 (S)	98	7.073	7.073	(1.261)	2045395	10.0000	10.4
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	673693	10.0000	12.0
	61 Toluene	91	7.150	7.150	(1.275)	1977888	10.0000	12.1
	62 Methyl Butyl Ketone	43	7.368	7.368	(0.853)	3250814	25.0000	30.2
	63 n-Octane	43	7.581	7.581	(0.877)	1361826	10.0000	11.3
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	1304493	10.0000	12.3
	65 1,2-Dibromoethane	107	7.905	7.905	(0.915)	1120500	10.0000	11.8
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	1075499	10.0000	10.7
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	1528809	10.0000	
	68 Chlorobenzene	112	8.683	8.683	(1.005)	1659150	10.0000	11.4
	69 Ethyl Benzene	91	8.931	8.931	(1.033)	2586296	10.0000	11.5
	70 m&p-Xylene	91	9.079	9.079	(1.051)	3891816	20.0000	22.7
	71 n-Nonane	43	9.471	9.471	(1.096)	1249379	10.0000	11.7
	72 Bromoform	173	9.478	9.478	(1.097)	1027225	10.0000	12.6
	73 Styrene	104	9.507	9.507	(1.100)	1516936	10.0000	12.1
	74 o-Xylene	91	9.577	9.577	(1.108)	1998503	10.0000	11.4
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1154799	10.0000	12.1
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	2736760	10.0000	11.5
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	3086303	10.0000	12.3
	78 4-Ethyltoluene	105	10.912	10.912	(1.263)	2602524	10.0000	12.2

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)	
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.273)	2224470	10.0000	11.9	
80	n-Decane	57	11.378	11.378	(2.028)	1334709	10.0000	13.3	
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2300631	10.0000	11.5	
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	2035722	10.0000	12.3	
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.365)	1293921	10.0000	11.3	
84	Sec- Butylbenzene	105	11.805	11.805	(1.366)	2872542	10.0000	12.2	
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.372)	839400	10.0000	11.6	(M)
86	Benzyl Chloride	91	11.863	11.863	(1.373)	1255708	10.0000	10.6	
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.376)	1278482	10.0000	11.7	
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	2493272	10.0000	12.6	
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	1970131	10.0000	12.3	
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	1196711	10.0000	11.6	
91	N-Butylbenzene	91	12.461	12.461	(1.442)	1904029	10.0000	11.9	
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	395982	10.0000	10.7	
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.624)	279386	10.0000	11.0	
94	Naphthalene	128	14.169	14.169	(1.640)	759769	10.0000	11.2	
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	390151	10.0000	11.8	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08702.D
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info:

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

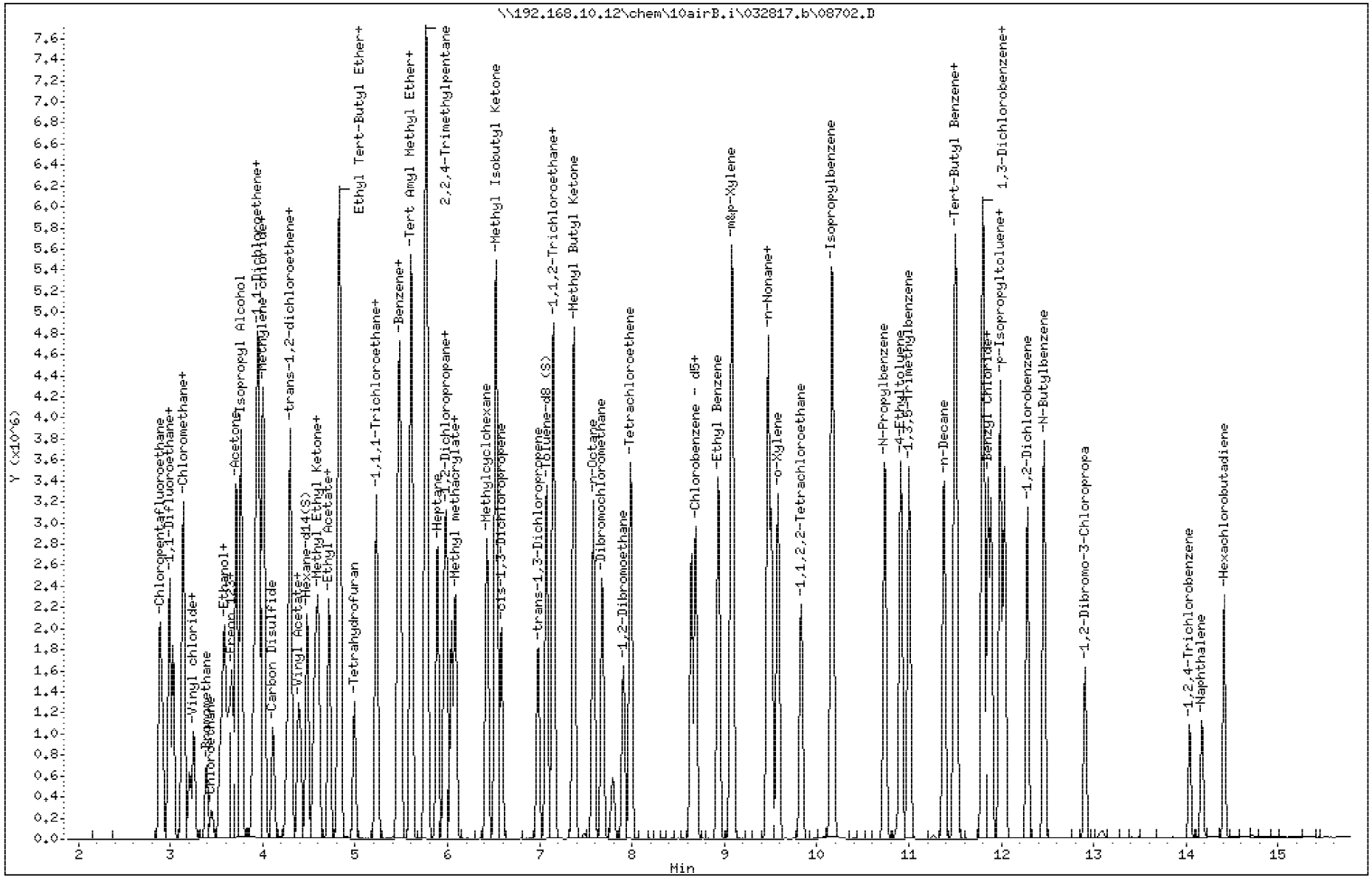
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2324391	-17.92
67 Chlorobenzene - d	1804482	1082689	2526275	1528809	-15.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.00
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

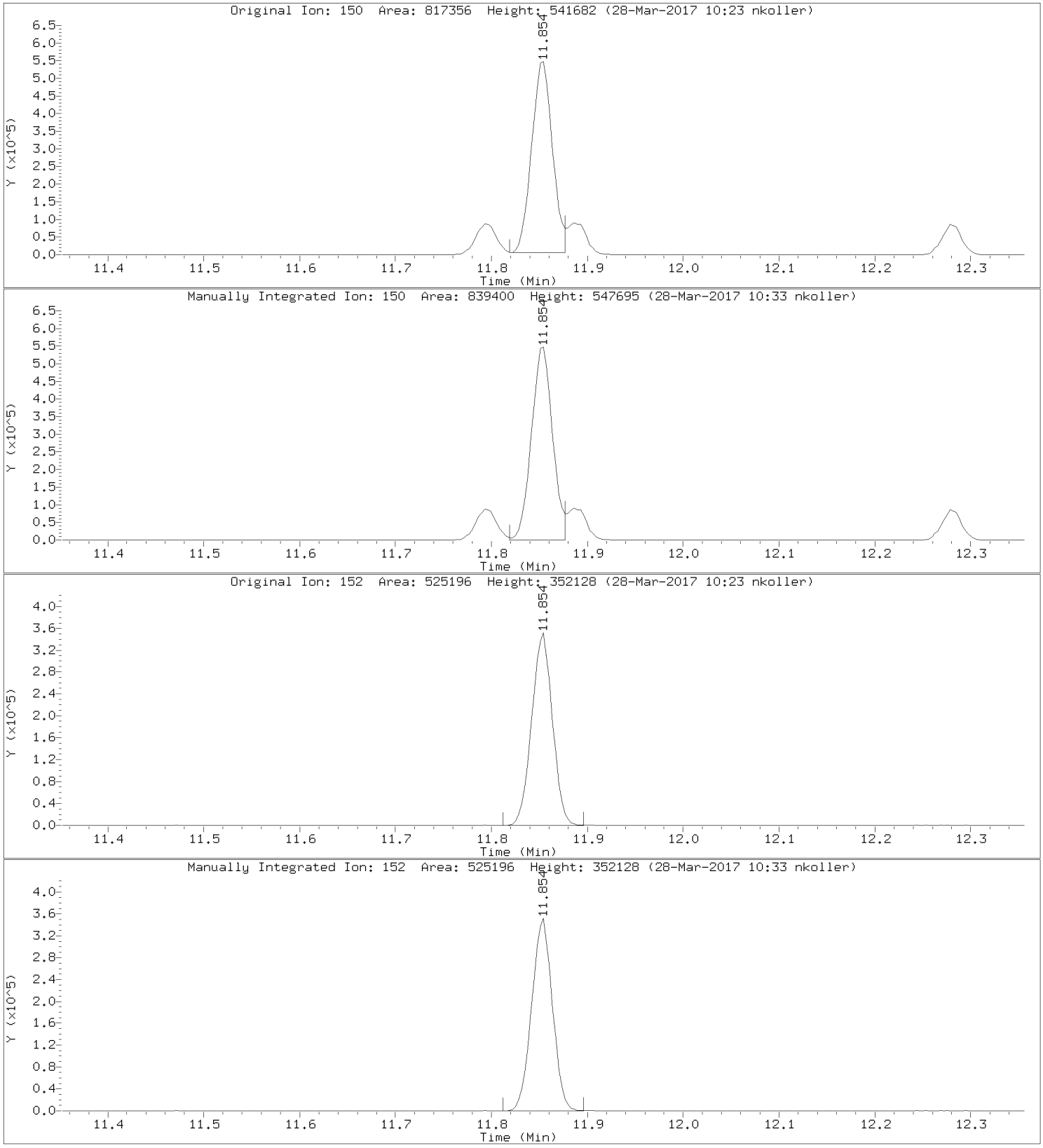
Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Date : 28-MAR-2017 09:50
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b/08702.D
Injection Date: 28-MAR-2017 09:50
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 29-MAR-2017 08:57
Lab File ID: 08802.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032917.b\TO15_086-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	13.56874	0.13756	0.010	35.68740	30.00000	Quad		<-
	2 1,1-Difluoroethane	0.11380	0.15204	0.15204	0.010	33.60669	30.00000	Aver		<-
	3 Chlorodifluoromethane	0.05116	0.06878	0.06878	0.010	34.42843	30.00000	Aver		<-
	4 Propylene	0.14949	0.18913	0.18913	0.010	26.51244	30.00000	Aver		
	5 Dichlorodifluoromethane	0.55046	0.67823	0.67823	0.010	23.21089	30.00000	Aver	(H)	
	6 Chloromethane	0.22703	0.31582	0.31582	0.010	39.10920	30.00000	Aver		<-
	7 Dichlorotetrafluoroethane	0.49168	0.64170	0.64170	0.010	30.51061	30.00000	Aver		<-
	8 Vinyl chloride	0.18768	0.25258	0.25258	0.010	34.57557	30.00000	Aver		<-
	9 1,3-Butadiene	0.14175	0.19079	0.19079	0.010	34.59051	30.00000	Aver		<-
	10 Bromomethane	0.15012	0.18194	0.18194	0.010	21.19669	30.00000	Aver		
	11 Chloroethane	0.07942	0.10487	0.10487	0.010	32.04605	30.00000	Aver		<-
	12 Ethanol	0.06631	0.08856	0.08856	0.005	33.55593	30.00000	Aver		<-
	13 Vinyl Bromide	0.15115	0.18243	0.18243	0.010	20.69982	30.00000	Aver		
	14 Isopentane	0.18869	0.24613	0.24613	0.010	30.44027	30.00000	Aver		<-
	15 Freon 123	10.00000	10.88991	0.24244	0.010	8.89911	30.00000	Quad		
	16 Trichlorofluoromethane	0.38532	0.48828	0.48828	0.010	26.72154	30.00000	Aver		
	17 Acrolein	0.06060	0.07893	0.07893	0.010	30.25555	30.00000	Aver		<-
	18 Acetone	0.26126	0.33975	0.33975	0.010	30.04279	30.00000	Aver		<-
	19 Isopropyl Alcohol	0.29407	0.38011	0.38011	0.010	29.25740	30.00000	Aver		
	20 1,1-Dichloroethene	0.27126	0.34724	0.34724	0.010	28.01206	30.00000	Aver		
	21 Acrylonitrile	0.13332	0.17972	0.17972	0.010	34.80458	30.00000	Aver		<-
	22 Freon 113	0.30942	0.36698	0.36698	0.010	18.60413	30.00000	Aver		
	23 Methyl Acetate	0.42963	0.54611	0.54611	0.010	27.11153	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.37351	0.45516	0.45516	0.010	21.86095	30.00000	Aver		
	25 Methylene chloride	0.20028	0.25787	0.25787	0.010	28.75455	30.00000	Aver		
	26 Allyl Chloride	0.05286	0.05348	0.05348	0.010	1.17681	30.00000	Aver		
	27 Carbon Disulfide	0.35342	0.42615	0.42615	0.010	20.57877	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.15127	0.17750	0.17750	0.010	17.34280	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.40319	0.47193	0.47193	0.010	17.04772	30.00000	Aver		
	30 Vinyl Acetate	0.43945	0.56697	0.56697	0.010	29.01785	30.00000	Aver		
	31 1,1-Dichloroethane	0.29418	0.36928	0.36928	0.010	25.52782	30.00000	Aver		
$	32 Hexane-d14(S)	0.37513	0.35682	0.35682	0.010	-4.88083	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.08007	0.08952	0.08952	0.010	11.80946	30.00000	Aver		
	34 n-Hexane	0.29582	0.37392	0.37392	0.010	26.39909	30.00000	Aver	(M)	
	35 Di-isopropyl Ether	0.58031	0.75699	0.75699	0.010	30.44622	30.00000	Aver		<-
	36 Ethyl Acetate	0.37982	0.48953	0.48953	0.010	28.88593	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.16587	0.19471	0.19471	0.010	17.38524	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.58893	0.69274	0.69274	0.010	17.62624	30.00000	Aver		
	39 Chloroform	0.32904	0.40017	0.40017	0.010	21.61484	30.00000	Aver		
	40 Tetrahydrofuran	0.22863	0.30443	0.30443	0.010	33.15457	30.00000	Aver		<-
	41 1,1,1-Trichloroethane	0.42732	0.54862	0.54862	0.010	28.38575	30.00000	Aver		
	42 1,2-Dichloroethane	0.32794	0.42664	0.42664	0.010	30.09791	30.00000	Aver		<-

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 29-MAR-2017 08:57
Lab File ID: 08802.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032917.b\TO15_086-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.57680	0.72614	0.72614	0.010	25.89108	30.00000	Aver		
	44 Carbon tetrachloride	0.41321	0.53941	0.53941	0.010	30.54340	30.00000	Aver		<-
	45 Cyclohexane	0.33146	0.42302	0.42302	0.010	27.62512	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	12.52677	0.71914	0.010	25.26766	30.00000	Line		
	48 2,2,4-Trimethylpentane	1.01062	1.31348	1.31348	0.010	29.96692	30.00000	Aver		
	49 Heptane	0.36402	0.49193	0.49193	0.010	35.13743	30.00000	Aver		<-
	50 1,2-Dichloropropane	0.22682	0.29879	0.29879	0.010	31.72700	30.00000	Aver		<-
	51 Trichloroethene	0.30270	0.38135	0.38135	0.010	25.98195	30.00000	Aver		
	52 Methyl methacrylate	0.20605	0.26206	0.26206	0.010	27.18293	30.00000	Aver		
	53 1,4-Dioxane	0.14082	0.18461	0.18461	0.010	31.09603	30.00000	Aver		<-
	54 Bromodichloromethane	0.40173	0.55780	0.55780	0.010	38.84758	30.00000	Aver		<-
	55 Methylcyclohexane	0.17064	0.21561	0.21561	0.010	26.34860	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.49439	0.67479	0.67479	0.010	36.48898	30.00000	Aver		<-
	57 cis-1,3-Dichloropropene	0.32591	0.43169	0.43169	0.010	32.45764	30.00000	Aver		<-
	58 trans-1,3-Dichloropropene	10.00000	12.03803	0.39651	0.010	20.38029	30.00000	Line		
$	59 Toluene-d8 (S)	0.84305	0.88072	0.88072	0.010	4.46856	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.24057	0.31073	0.31073	0.010	29.16603	30.00000	Aver		
	61 Toluene	0.70188	0.91408	0.91408	0.010	30.23238	30.00000	Aver		<-
	62 Methyl Butyl Ketone	0.70333	0.96852	0.96852	0.010	37.70567	30.00000	Aver		<-
	63 n-Octane	0.78573	1.02163	1.02163	0.010	30.02354	30.00000	Aver		<-
	64 Dibromochloromethane	0.69204	0.91123	0.91123	0.010	31.67279	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.62331	0.81210	0.81210	0.010	30.28951	30.00000	Aver		<-
	66 Tetrachloroethene	0.65492	0.73370	0.73370	0.010	12.02857	30.00000	Aver		
	68 Chlorobenzene	0.94970	1.16465	1.16465	0.010	22.63348	30.00000	Aver		
	69 Ethyl Benzene	1.46564	1.87959	1.87959	0.010	28.24339	30.00000	Aver		
	70 m&p-Xylene	1.11981	1.39842	1.39842	0.010	24.88089	30.00000	Aver		
	71 n-Nonane	0.69761	0.92578	0.92578	0.010	32.70663	30.00000	Aver		<-
	72 Bromoform	0.53416	0.69723	0.69723	0.010	30.52903	30.00000	Aver		<-
	73 Styrene	0.82284	1.10306	1.10306	0.010	34.05615	30.00000	Aver		<-
	74 o-Xylene	1.14924	1.44267	1.44267	0.010	25.53249	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.62364	0.83353	0.83353	0.010	33.65618	30.00000	Aver		<-
	76 Isopropylbenzene	1.55759	1.96279	1.96279	0.010	26.01474	30.00000	Aver		
	77 N-Propylbenzene	1.63599	2.26407	2.26407	0.010	38.39159	30.00000	Aver		<-
	78 4-Ethyltoluene	1.39044	1.91701	1.91701	0.010	37.87092	30.00000	Aver		<-
	79 1,3,5-Trimethylbenzene	1.22171	1.60667	1.60667	0.010	31.50957	30.00000	Aver		<-
	80 n-Decane	0.43302	0.63994	0.63994	0.010	47.78529	30.00000	Aver		<-
	81 Tert-Butyl Benzene	1.30443	1.62698	1.62698	0.010	24.72736	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.08502	1.47198	1.47198	0.010	35.66472	30.00000	Aver		<-
	83 1,3-Dichlorobenzene	10.00000	12.25401	0.91113	0.010	22.54014	30.00000	Quad		
	84 Sec- Butylbenzene	1.53952	2.08197	2.08197	0.010	35.23525	30.00000	Aver		<-
$	85 1,4-dichlorobenzene-d4 (S)	0.47472	0.54532	0.54532	0.010	14.87146	30.00000	Aver		
	86 Benzyl Chloride	10.00000	11.29253	0.87389	0.010	12.92530	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 29-MAR-2017 08:57
Lab File ID: 08802.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032917.b\TO15_086-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	10.00000	12.67411	0.90559	0.010	26.74111	30.00000	Line		
88 p-Isopropyltoluene	1.29538	1.77674	1.77674	0.010	37.16043	30.00000	Aver		<-
89 1,2,3-Trimethylbenzene	1.04466	1.43019	1.43019	0.010	36.90487	30.00000	Aver		<-
90 1,2-Dichlorobenzene	10.00000	12.67825	0.85744	0.010	26.78254	30.00000	Line		
91 N-Butylbenzene	10.00000	13.34747	1.39298	0.010	33.47468	30.00000	Line		<-
92 1,2-Dibromo-3-Chloropropane	10.00000	11.32132	0.27414	0.010	13.21320	30.00000	Quad		
93 1,2,4-Trichlorobenzene	10.00000	12.28395	0.20915	0.010	22.83951	30.00000	Quad		
94 Naphthalene	10.00000	12.83716	0.58508	0.010	28.37160	30.00000	Quad		
95 Hexachlorobutadiene	0.21547	0.28377	0.28377	0.010	31.70192	30.00000	Aver		<-

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 27.34803
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Lab Smp Id: ccv
Inj Date : 29-MAR-2017 08:57
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032917.b\TO15_086-17.m
Meth Date : 29-Mar-2017 09:26 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.938	2.938	(0.523)	274367	10.0000	13.6
2	1,1-Difluoroethane	65	3.012	3.012	(0.537)	303243	10.0000	13.4
3	Chlorodifluoromethane	67	3.021	3.021	(0.538)	137172	10.0000	13.4
4	Propylene	41	3.018	3.018	(0.538)	377205	10.0000	12.7
5	Dichlorodifluoromethane	85	3.054	3.054	(0.544)	1352701	10.0000	12.3(H)
6	Chloromethane	50	3.150	3.150	(0.561)	629886	10.0000	13.9
7	Dichlorotetrafluoroethane	85	3.160	3.160	(0.563)	1279843	10.0000	13.1
8	Vinyl chloride	62	3.230	3.230	(0.576)	503758	10.0000	13.5
9	1,3-Butadiene	54	3.272	3.272	(0.583)	380516	10.0000	13.5
10	Bromomethane	94	3.407	3.407	(0.607)	362871	10.0000	12.1
11	Chloroethane	64	3.465	3.465	(0.617)	209159	10.0000	13.2
12	Ethanol	45	3.549	3.549	(0.632)	883107	50.0000	66.8
13	Vinyl Bromide	106	3.578	3.578	(0.637)	363860	10.0000	12.1
14	Isopentane	43	3.597	3.597	(0.641)	490896	10.0000	13.0
15	Freon 123	83	3.632	3.632	(0.647)	483535	10.0000	10.9
16	Trichlorofluoromethane	101	3.671	3.671	(0.654)	973860	10.0000	12.7
17	Acrolein	56	3.684	3.684	(0.656)	393556	25.0000	32.6
18	Acetone	43	3.722	3.722	(0.663)	3388120	50.0000	65.0
19	Isopropyl Alcohol	45	3.771	3.771	(0.672)	3790616	50.0000	64.6
20	1,1-Dichloroethene	61	3.909	3.909	(0.696)	692567	10.0000	12.8
21	Acrylonitrile	53	3.931	3.931	(0.700)	896135	25.0000	33.7
22	Freon 113	101	3.951	3.951	(0.704)	731931	10.0000	11.9
23	Methyl Acetate	43	3.963	3.963	(0.706)	1089192	10.0000	12.7

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.960	3.960	(0.706)	2269495	25.0000	30.5
	25 Methylene chloride	49	4.008	4.008	(0.714)	2571600	50.0000	64.4
	26 Allyl Chloride	76	4.018	4.018	(0.716)	266681	25.0000	25.3
	27 Carbon Disulfide	76	4.124	4.124	(0.735)	849950	10.0000	12.1
	28 trans-1,2-dichloroethene	96	4.279	4.279	(0.762)	354018	10.0000	11.7
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	2353108	25.0000	29.3
	30 Vinyl Acetate	43	4.391	4.391	(0.782)	1130804	10.0000	12.9
	31 1,1-Dichloroethane	63	4.414	4.414	(0.786)	736518	10.0000	12.6
$	32 Hexane-d14(S)	66	4.488	4.488	(0.800)	711667	10.0000	9.51
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	178553	10.0000	11.2
	34 n-Hexane	57	4.584	4.584	(0.817)	745768	10.0000	12.6(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.820)	1509793	10.0000	13.0
	36 Ethyl Acetate	43	4.719	4.719	(0.841)	976353	10.0000	12.9
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	388344	10.0000	11.7
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.861)	3454132	25.0000	29.4
	39 Chloroform	83	4.841	4.841	(0.863)	798120	10.0000	12.2
	40 Tetrahydrofuran	42	4.996	4.996	(0.890)	607168	10.0000	13.3
	41 1,1,1-Trichloroethane	97	5.233	5.233	(0.932)	1094203	10.0000	12.8
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	850930	10.0000	13.0
	43 Benzene	78	5.468	5.468	(0.974)	1448264	10.0000	12.6
	44 Carbon tetrachloride	117	5.484	5.484	(0.977)	1075843	10.0000	13.1
	45 Cyclohexane	56	5.491	5.491	(0.978)	843707	10.0000	12.8
	46 Tert Amyl Methyl Ether	73	5.606	5.606	(0.999)	1434301	10.0000	12.5
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1994472	10.0000	
	48 2,2,4-Trimethylpentane	57	5.774	5.774	(1.029)	6549237	25.0000	32.5
	49 Heptane	43	5.893	5.893	(1.050)	981131	10.0000	13.5
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	595925	10.0000	13.2
	51 Trichloroethene	130	5.989	5.989	(1.067)	760598	10.0000	12.6
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	522671	10.0000	12.7
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	368192	10.0000	13.1
	54 Bromodichloromethane	83	6.086	6.086	(1.084)	1112515	10.0000	13.9
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	430022	10.0000	12.6
	56 Methyl Isobutyl Ketone	43	6.532	6.532	(1.164)	3364633	25.0000	34.1
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	860995	10.0000	13.2
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	790829	10.0000	12.0
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1756573	10.0000	10.4
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	619748	10.0000	12.9
	61 Toluene	91	7.153	7.153	(1.274)	1823098	10.0000	13.0
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	3109013	25.0000	34.4
	63 n-Octane	43	7.581	7.581	(0.877)	1311798	10.0000	13.0
	64 Dibromochloromethane	129	7.680	7.680	(0.888)	1170038	10.0000	13.2
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	1042760	10.0000	13.0
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	942085	10.0000	11.2
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1284022	10.0000	
	68 Chlorobenzene	112	8.684	8.684	(1.004)	1495438	10.0000	12.3
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	2413431	10.0000	12.8
	70 m&p-Xylene	91	9.082	9.082	(1.051)	3591215	20.0000	25.0
	71 n-Nonane	43	9.468	9.468	(1.095)	1188723	10.0000	13.3
	72 Bromoform	173	9.481	9.481	(1.097)	895261	10.0000	13.1
	73 Styrene	104	9.507	9.507	(1.100)	1416356	10.0000	13.4
	74 o-Xylene	91	9.577	9.577	(1.108)	1852415	10.0000	12.6
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1070273	10.0000	13.4
	76 Isopropylbenzene	105	10.159	10.159	(1.175)	2520268	10.0000	12.6
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	2907121	10.0000	13.8

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.263)	2461486	10.0000	13.8
79	1,3,5-Trimethylbenzene	105	10.999	10.999	(1.272)	2063002	10.0000	13.2
80	n-Decane	57	11.378	11.378	(2.027)	1276340	10.0000	14.8
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2089084	10.0000	12.5
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.331)	1890061	10.0000	13.6
83	1,3-Dichlorobenzene	146	11.793	11.793	(1.364)	1169915	10.0000	12.3
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	2673296	10.0000	13.5
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.371)	700197	10.0000	11.5
86	Benzyl Chloride	91	11.860	11.860	(1.372)	1122099	10.0000	11.3
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	1162800	10.0000	12.7
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	2281376	10.0000	13.7
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	1836394	10.0000	13.7
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.420)	1100968	10.0000	12.7
91	N-Butylbenzene	91	12.461	12.461	(1.441)	1788620	10.0000	13.3
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	351999	10.0000	11.3
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.623)	268552	10.0000	12.3
94	Naphthalene	128	14.166	14.166	(1.639)	751252	10.0000	12.8
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	364369	10.0000	13.2

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08802.D
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032917.b\TO15_086-17.m
Misc Info:

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

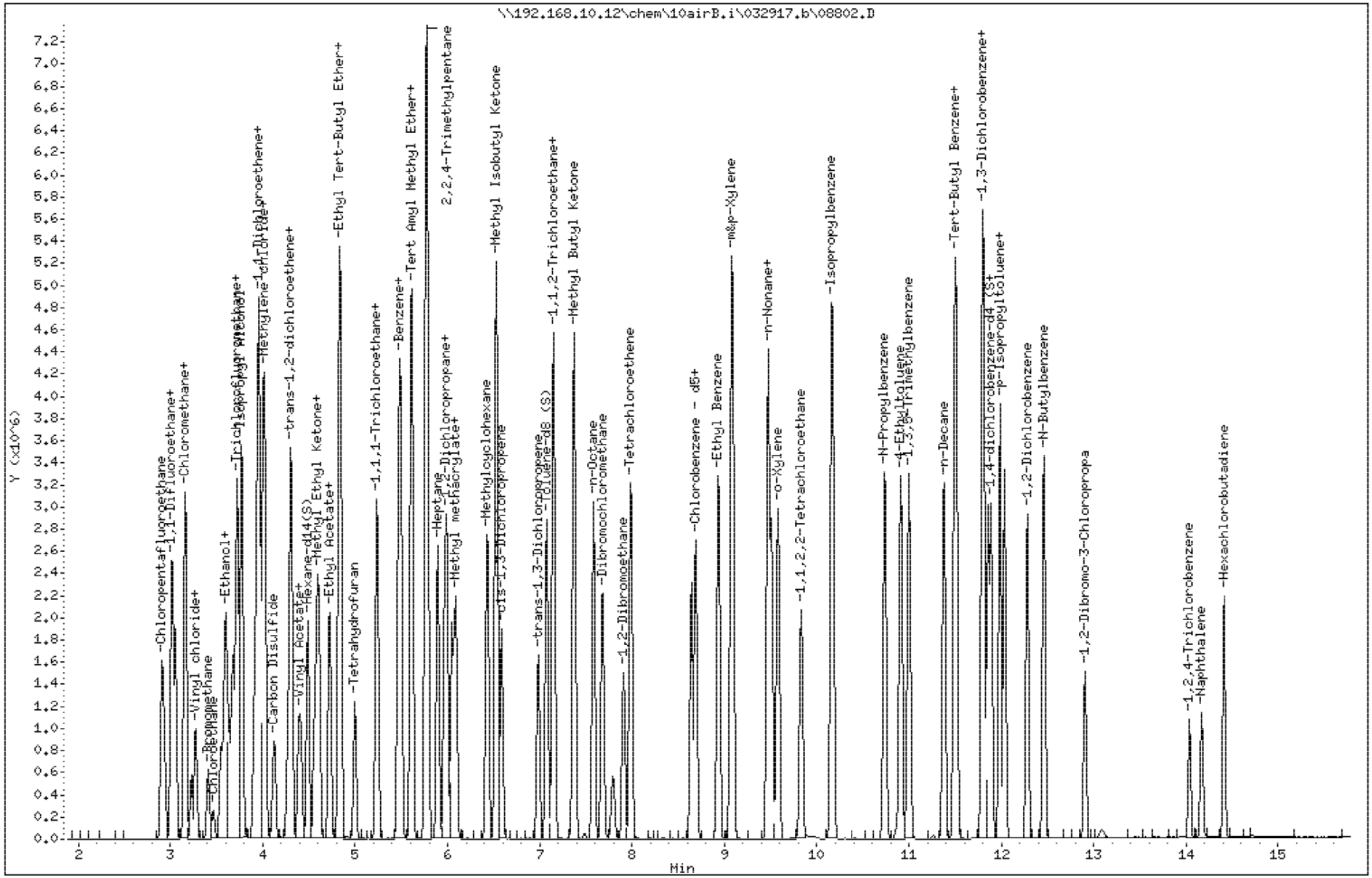
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	1994472	-29.57
67 Chlorobenzene - d	1804482	1082689	2526275	1284022	-28.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

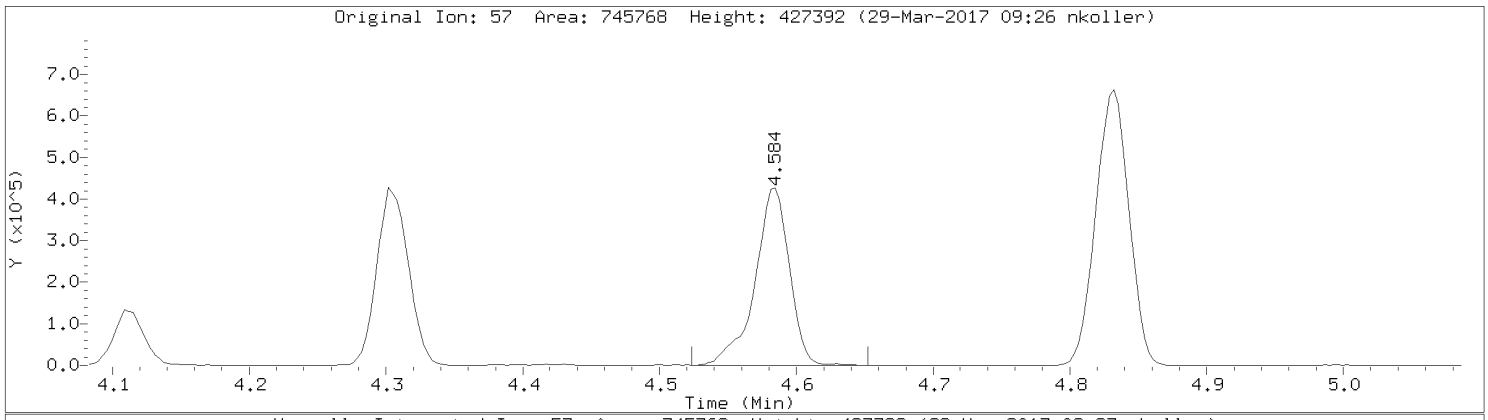
Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Date : 29-MAR-2017 08:57
Client ID:
Sample Info:

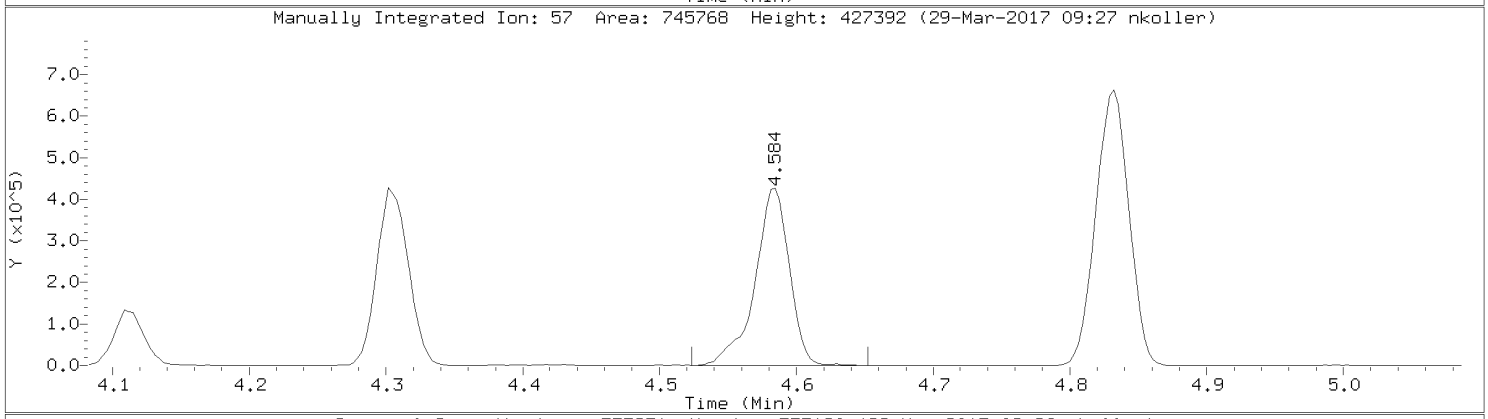
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

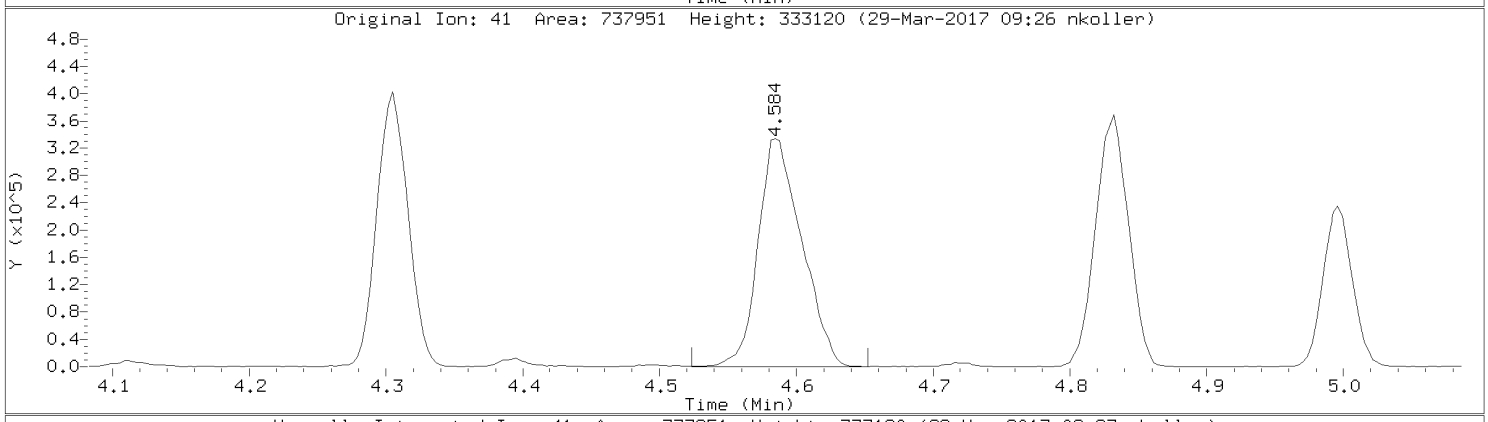


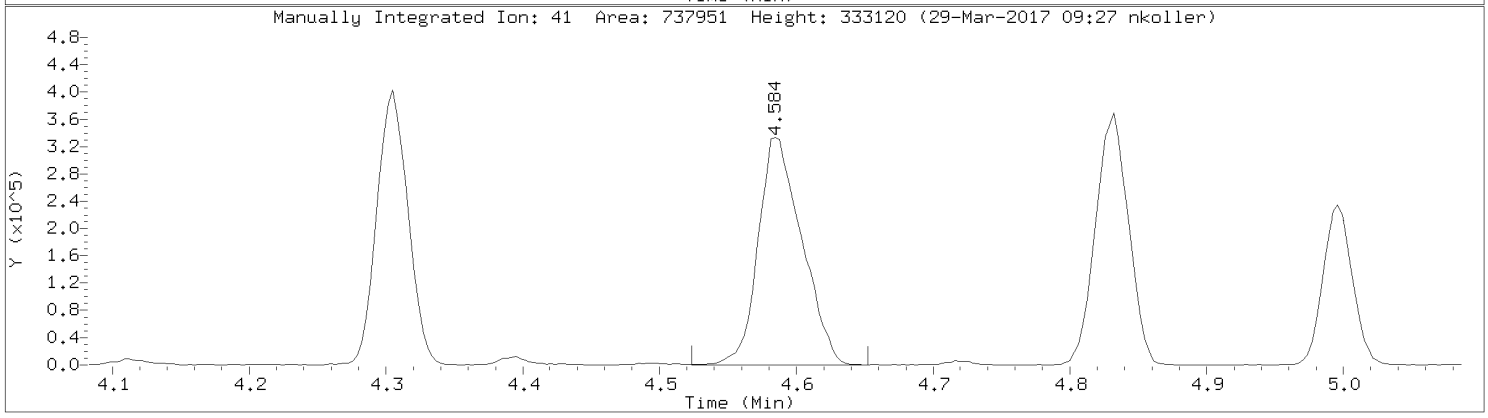
Data File: \\192.168.10.12\chem\10airB.i\032917.b/08802.D
Injection Date: 29-MAR-2017 08:57
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: n-Hexane
CAS Number: 110-54-3

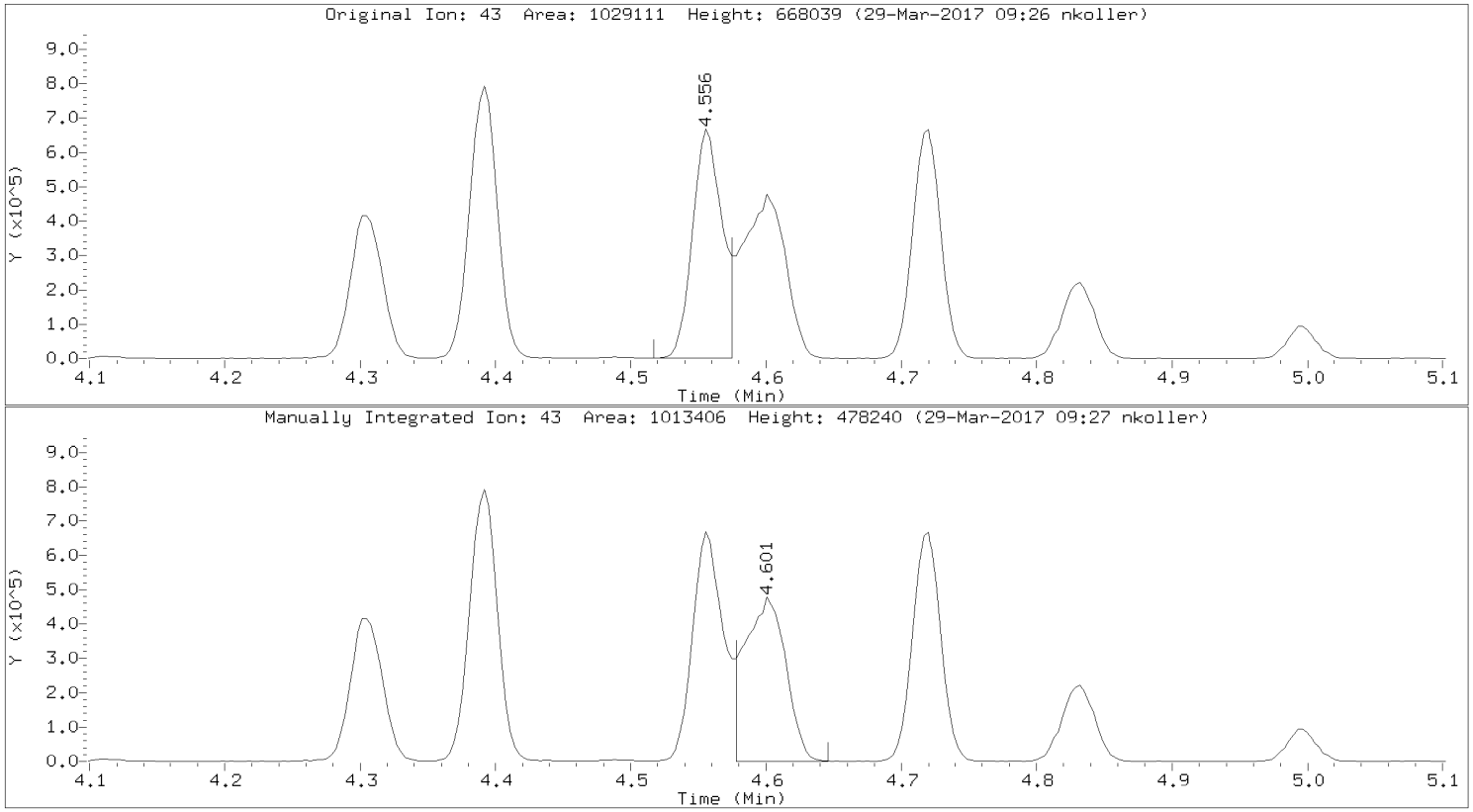








Data File: \\192.168.10.12\chem\10airB.i\032917.b/08802.D
Injection Date: 29-MAR-2017 08:57
Instrument: 10airB.i
Lab Sample ID: ccv



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 31-MAR-2017 03:32
Lab File ID: 08932.D Init. Cal. Date(s): 30-MAR-2017 30-MAR-2017
Analysis Type: AIR Init. Cal. Times: 05:04 10:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	11.07646	0.13749	0.010	10.76464	30.00000	Quad		
	2 1,1-Difluoroethane	0.15874	0.17857	0.17857	0.010	12.48975	30.00000	Aver		
	3 Chlorodifluoromethane	0.06728	0.07531	0.07531	0.010	11.93140	30.00000	Aver	(QH)	
	4 Propylene	0.20863	0.21459	0.21459	0.010	2.85429	30.00000	Aver		
	5 Dichlorodifluoromethane	0.72061	0.74840	0.74840	0.010	3.85604	30.00000	Aver	(H)	
	6 Chloromethane	0.31468	0.36440	0.36440	0.010	15.80006	30.00000	Aver	(H)	
	7 Dichlorotetrafluoroethane	0.65330	0.72561	0.72561	0.010	11.06822	30.00000	Aver	(H)	
	8 Vinyl chloride	0.26255	0.30261	0.30261	0.010	15.25804	30.00000	Aver	(H)	
	9 1,3-Butadiene	0.20270	0.25030	0.25030	0.010	23.48464	30.00000	Aver		
	10 Bromomethane	0.20286	0.27414	0.27414	0.010	35.13760	30.00000	Aver		<-
	11 Chloroethane	10.00000	11.68023	0.14822	0.010	16.80229	30.00000	Line		
	12 Ethanol	0.09562	0.12402	0.12402	0.005	29.70431	30.00000	Aver	(M)	
	13 Vinyl Bromide	0.19305	0.26512	0.26512	0.010	37.32874	30.00000	Aver		<-
	14 Isopentane	0.27047	0.44950	0.44950	0.010	66.19213	30.00000	Aver		<-
	15 Freon 123	0.32064	0.38870	0.38870	0.010	21.22761	30.00000	Aver	(H)	
	16 Trichlorofluoromethane	0.51444	0.70734	0.70734	0.010	37.49545	30.00000	Aver	(H)	<-
	17 Acrolein	0.07958	0.10793	0.10793	0.010	35.62302	30.00000	Aver	(H)	<-
	18 Acetone	0.36202	0.48226	0.48226	0.010	33.21615	30.00000	Aver	(H)	<-
	19 Isopropyl Alcohol	0.39928	0.56621	0.56621	0.010	41.80764	30.00000	Aver	(M)	<-
	20 1,1-Dichloroethene	0.36049	0.48771	0.48771	0.010	35.28928	30.00000	Aver		<-
	21 Acrylonitrile	0.17525	0.24068	0.24068	0.010	37.32956	30.00000	Aver	(H)	<-
	22 Freon 113	0.39590	0.56476	0.56476	0.010	42.65150	30.00000	Aver		<-
	23 Methyl Acetate	0.58697	0.58657	0.58657	0.010	-0.06878	30.00000	Aver	(QM)	
	24 Tert Butyl Alcohol (TBA)	0.48816	0.66709	0.66709	0.010	36.65351	30.00000	Aver	(QM)	<-
	25 Methylene chloride	0.27792	0.34968	0.34968	0.010	25.81671	30.00000	Aver	(H)	
	26 Allyl Chloride	0.06139	0.07848	0.07848	0.010	27.84357	30.00000	Aver	(QH)	
	27 Carbon Disulfide	10.00000	13.24079	0.67185	0.010	32.40787	30.00000	Line	(H)	<-
	28 trans-1,2-dichloroethene	0.18572	0.29036	0.29036	0.010	56.34898	30.00000	Aver		<-
	29 Methyl Tert Butyl Ether	0.52063	0.78356	0.78356	0.010	50.50065	30.00000	Aver		<-
	30 Vinyl Acetate	0.57539	0.82097	0.82097	0.010	42.67960	30.00000	Aver	(H)	<-
	31 1,1-Dichloroethane	0.39542	0.58254	0.58254	0.010	47.32128	30.00000	Aver	(H)	<-
$	32 Hexane-d14(S)	0.38180	0.46450	0.46450	0.010	21.66108	30.00000	Aver	(H)	
	33 Methyl Ethyl Ketone	0.10041	0.14627	0.14627	0.010	45.66379	30.00000	Aver	(QM)	<-
	34 n-Hexane	0.40632	0.56305	0.56305	0.010	38.57441	30.00000	Aver	(QMH)	<-
	35 Di-isopropyl Ether	0.81342	1.12907	1.12907	0.010	38.80442	30.00000	Aver		<-
	36 Ethyl Acetate	0.52601	0.72941	0.72941	0.010	38.66727	30.00000	Aver		<-
	37 cis-1,2-Dichloroethene	0.21463	0.32202	0.32202	0.010	50.03710	30.00000	Aver		<-
	38 Ethyl Tert-Butyl Ether	0.82430	1.05235	1.05235	0.010	27.66627	30.00000	Aver	(H)	
	39 Chloroform	0.43974	0.58945	0.58945	0.010	34.04526	30.00000	Aver		<-
	40 Tetrahydrofuran	0.30910	0.36799	0.36799	0.010	19.05421	30.00000	Aver	(H)	
	41 1,1,1-Trichloroethane	0.52067	0.66261	0.66261	0.010	27.26024	30.00000	Aver		
	42 1,2-Dichloroethane	0.42331	0.50113	0.50113	0.010	18.38507	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 31-MAR-2017 03:32
Lab File ID: 08932.D Init. Cal. Date(s): 30-MAR-2017 30-MAR-2017
Analysis Type: AIR Init. Cal. Times: 05:04 10:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.75156	0.86206	0.86206	0.010	14.70195	30.00000	Aver		
	44 Carbon tetrachloride	0.47345	0.62892	0.62892	0.010	32.83861	30.00000	Aver		<-
	45 Cyclohexane	0.42911	0.49755	0.49755	0.010	15.94988	30.00000	Aver	(H)	
	46 Tert Amyl Methyl Ether	10.00000	10.88893	0.86429	0.010	8.88935	30.00000	Line		
	48 2,2,4-Trimethylpentane	1.30721	1.55367	1.55367	0.010	18.85325	30.00000	Aver		
	49 Heptane	0.49886	0.57934	0.57934	0.010	16.13195	30.00000	Aver	(H)	
	50 1,2-Dichloropropane	0.29790	0.35324	0.35324	0.010	18.57782	30.00000	Aver	(H)	
	51 Trichloroethene	0.38320	0.44194	0.44194	0.010	15.32990	30.00000	Aver		
	52 Methyl methacrylate	0.24990	0.31281	0.31281	0.010	25.17203	30.00000	Aver		
	53 1,4-Dioxane	0.18596	0.21975	0.21975	0.010	18.16658	30.00000	Aver		
	54 Bromodichloromethane	10.00000	11.08569	0.63795	0.010	10.85693	30.00000	Line	(H)	
	55 Methylcyclohexane	0.21292	0.25254	0.25254	0.010	18.60419	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.65254	0.79507	0.79507	0.010	21.84337	30.00000	Aver	(H)	
	57 cis-1,3-Dichloropropene	10.00000	10.60478	0.51258	0.010	6.04777	30.00000	Line		
	58 trans-1,3-Dichloropropene	10.00000	10.34539	0.46334	0.010	3.45388	30.00000	Line		
$	59 Toluene-d8 (S)	0.84435	0.86330	0.86330	0.010	2.24408	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.30324	0.36198	0.36198	0.010	19.37281	30.00000	Aver		
	61 Toluene	0.91557	1.06925	1.06925	0.010	16.78525	30.00000	Aver		
	62 Methyl Butyl Ketone	0.91097	1.14630	1.14630	0.010	25.83314	30.00000	Aver		
	63 n-Octane	1.04404	1.17193	1.17193	0.010	12.25021	30.00000	Aver		
	64 Dibromochloromethane	10.00000	10.61651	1.07272	0.010	6.16508	30.00000	Quad		
	65 1,2-Dibromoethane	0.78476	0.93862	0.93862	0.010	19.60613	30.00000	Aver		
	66 Tetrachloroethene	0.81435	0.86393	0.86393	0.010	6.08823	30.00000	Aver		
	68 Chlorobenzene	1.20034	1.35803	1.35803	0.010	13.13663	30.00000	Aver		
	69 Ethyl Benzene	1.88193	2.16354	2.16354	0.010	14.96372	30.00000	Aver		
	70 m&p-Xylene	1.41552	1.62324	1.62324	0.010	14.67444	30.00000	Aver		
	71 n-Nonane	0.91862	1.10813	1.10813	0.010	20.62876	30.00000	Aver		
	72 Bromoform	10.00000	10.62542	0.84064	0.010	6.25419	30.00000	Quad		
	73 Styrene	1.05208	1.26046	1.26046	0.010	19.80713	30.00000	Aver		
	74 o-Xylene	1.45489	1.66008	1.66008	0.010	14.10308	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.77510	0.97415	0.97415	0.010	25.68039	30.00000	Aver		
	76 Isopropylbenzene	1.98798	2.27012	2.27012	0.010	14.19229	30.00000	Aver		
	77 N-Propylbenzene	2.06132	2.59015	2.59015	0.010	25.65464	30.00000	Aver		
	78 4-Ethyltoluene	1.73996	2.21881	2.21881	0.010	27.52080	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.51106	1.85991	1.85991	0.010	23.08616	30.00000	Aver		
	80 n-Decane	10.00000	10.48617	0.76107	0.010	4.86172	30.00000	Line		
	81 Tert-Butyl Benzene	1.59537	1.89410	1.89410	0.010	18.72443	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.36933	1.68914	1.68914	0.010	23.35506	30.00000	Aver		
	83 1,3-Dichlorobenzene	10.00000	10.28983	1.06309	0.010	2.89825	30.00000	Quad		
	84 Sec- Butylbenzene	1.98731	2.39840	2.39840	0.010	20.68584	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.45593	0.53397	0.53397	0.010	17.11546	30.00000	Aver		
	86 Benzyl Chloride	10.00000	10.36601	1.06077	0.010	3.66008	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 31-MAR-2017 03:32
Lab File ID: 08932.D Init. Cal. Date(s): 30-MAR-2017 30-MAR-2017
Analysis Type: AIR Init. Cal. Times: 05:04 10:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	10.00000	10.84504	1.06426	0.010	8.45043	30.00000	Line	
88 p-Isopropyltoluene	1.63731	2.07541	2.07541	0.010	26.75757	30.00000	Aver	
89 1,2,3-Trimethylbenzene	1.32712	1.64941	1.64941	0.010	24.28490	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.38082	1.00937	0.010	3.80821	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.37570	1.63338	0.010	3.75702	30.00000	Quad	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.03911	0.33300	0.010	0.39107	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.79342	0.24826	0.010	-2.06584	30.00000	Quad	
94 Naphthalene	10.00000	9.81319	0.67507	0.010	-1.86814	30.00000	Quad	
95 Hexachlorobutadiene	10.00000	10.71345	0.33312	0.010	7.13447	30.00000	Line	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 21.50597
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Lab Smp Id: ccv
Inj Date : 31-MAR-2017 03:32
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 04-Apr-2017 11:24 10airB.i Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 32 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.986	2.986	(0.526)	250023	10.0000	11.1
2	1,1-Difluoroethane	65	3.086	3.086	(0.544)	324738	10.0000	11.2
3	Chlorodifluoromethane	67	3.076	3.076	(0.542)	136951	10.0000	11.2(QH)
4	Propylene	41	3.066	3.066	(0.540)	390235	10.0000	10.3
5	Dichlorodifluoromethane	85	3.114	3.114	(0.549)	1360994	10.0000	10.4(H)
6	Chloromethane	50	3.214	3.214	(0.567)	662682	10.0000	11.6(H)
7	Dichlorotetrafluoroethane	85	3.240	3.240	(0.571)	1319543	10.0000	11.1(H)
8	Vinyl chloride	62	3.304	3.304	(0.582)	550308	10.0000	11.5(H)
9	1,3-Butadiene	54	3.349	3.349	(0.590)	455180	10.0000	12.3
10	Bromomethane	94	3.484	3.484	(0.614)	498529	10.0000	13.5
11	Chloroethane	64	3.539	3.539	(0.624)	269538	10.0000	11.7
12	Ethanol	45	3.671	3.671	(0.647)	1127683	50.0000	64.9(M)
13	Vinyl Bromide	106	3.655	3.655	(0.644)	482129	10.0000	13.7
14	Isopentane	43	3.671	3.671	(0.647)	817434	10.0000	16.6
15	Freon 123	83	3.722	3.722	(0.656)	706862	10.0000	12.1(H)
16	Trichlorofluoromethane	101	3.745	3.745	(0.660)	1286318	10.0000	13.7(H)
17	Acrolein	56	3.761	3.761	(0.663)	490699	25.0000	33.9(H)
18	Acetone	43	3.806	3.806	(0.671)	4385058	50.0000	66.6(H)
19	Isopropyl Alcohol	45	3.905	3.905	(0.688)	5148330	50.0000	70.9(M)
20	1,1-Dichloroethene	61	3.976	3.976	(0.701)	886919	10.0000	13.5
21	Acrylonitrile	53	4.015	4.015	(0.708)	1094197	25.0000	34.3(H)
22	Freon 113	101	4.018	4.018	(0.708)	1027030	10.0000	14.3
23	Methyl Acetate	43	4.040	4.040	(0.712)	1066691	10.0000	9.99(QM)

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	4.095	4.095	(0.722)	3032793	25.0000	34.2(QM)
	25 Methylene chloride	49	4.069	4.069	(0.717)	3179484	50.0000	62.9(H)
	26 Allyl Chloride	76	4.089	4.089	(0.721)	356805	25.0000	32.0(QH)
	27 Carbon Disulfide	76	4.188	4.188	(0.738)	1221790	10.0000	13.2(H)
	28 trans-1,2-dichloroethene	96	4.343	4.343	(0.765)	528036	10.0000	15.6
	29 Methyl Tert Butyl Ether	73	4.375	4.375	(0.771)	3562307	25.0000	37.6
	30 Vinyl Acetate	43	4.468	4.468	(0.787)	1492957	10.0000	14.3(H)
	31 1,1-Dichloroethane	63	4.484	4.484	(0.790)	1059367	10.0000	14.7(H)
$	32 Hexane-d14(S)	66	4.548	4.548	(0.802)	844712	10.0000	12.2(H)
	33 Methyl Ethyl Ketone	72	4.639	4.639	(0.818)	265990	10.0000	14.6(QM)
	34 n-Hexane	57	4.645	4.645	(0.819)	1023925	10.0000	13.9(QMH)
	35 Di-isopropyl Ether	45	4.677	4.677	(0.824)	2053249	10.0000	13.9
	36 Ethyl Acetate	43	4.796	4.796	(0.845)	1326452	10.0000	13.9
	37 cis-1,2-Dichloroethene	96	4.796	4.796	(0.845)	585610	10.0000	15.0
	38 Ethyl Tert-Butyl Ether	59	4.902	4.902	(0.864)	4784338	25.0000	31.9(H)
	39 Chloroform	83	4.915	4.915	(0.866)	1071937	10.0000	13.4
	40 Tetrahydrofuran	42	5.069	5.069	(0.893)	669204	10.0000	11.9(H)
	41 1,1,1-Trichloroethane	97	5.291	5.291	(0.933)	1204981	10.0000	12.7
	42 1,2-Dichloroethane	62	5.304	5.304	(0.935)	911329	10.0000	11.8
	43 Benzene	78	5.529	5.529	(0.975)	1567680	10.0000	11.5
	44 Carbon tetrachloride	117	5.542	5.542	(0.977)	1143720	10.0000	13.3
	45 Cyclohexane	56	5.539	5.539	(0.976)	904813	10.0000	11.6(H)
	46 Tert Amyl Methyl Ether	73	5.674	5.674	(1.000)	1571743	10.0000	10.9
*	47 1,4-Difluorobenzene	114	5.674	5.674	(1.000)	1818534	10.0000	
	48 2,2,4-Trimethylpentane	57	5.828	5.828	(1.027)	7063490	25.0000	29.7
	49 Heptane	43	5.944	5.944	(1.048)	1053546	10.0000	11.6(H)
	50 1,2-Dichloropropane	63	6.021	6.021	(1.061)	642376	10.0000	11.9(H)
	51 Trichloroethene	130	6.047	6.047	(1.066)	803685	10.0000	11.5
	52 Methyl methacrylate	69	6.108	6.108	(1.076)	568857	10.0000	12.5
	53 1,4-Dioxane	88	6.137	6.137	(1.082)	399618	10.0000	11.8
	54 Bromodichloromethane	83	6.146	6.146	(1.083)	1160133	10.0000	11.1(H)
	55 Methylcyclohexane	98	6.481	6.481	(1.142)	459244	10.0000	11.9
	56 Methyl Isobutyl Ketone	43	6.597	6.597	(1.163)	3614669	25.0000	30.5(H)
	57 cis-1,3-Dichloropropene	75	6.638	6.638	(1.170)	932138	10.0000	10.6
	58 trans-1,3-Dichloropropene	75	7.034	7.034	(1.240)	842595	10.0000	10.3
$	59 Toluene-d8 (S)	98	7.121	7.121	(1.255)	1569941	10.0000	10.2
	60 1,1,2-Trichloroethane	97	7.195	7.195	(1.268)	658280	10.0000	11.9
	61 Toluene	91	7.198	7.198	(1.269)	1944474	10.0000	11.7
	62 Methyl Butyl Ketone	43	7.433	7.433	(0.857)	3370216	25.0000	31.5
	63 n-Octane	43	7.616	7.616	(0.878)	1378228	10.0000	11.2
	64 Dibromochloromethane	129	7.728	7.728	(0.891)	1261548	10.0000	10.6
	65 1,2-Dibromoethane	107	7.947	7.947	(0.916)	1103843	10.0000	12.0
	66 Tetrachloroethene	166	8.021	8.021	(0.924)	1016001	10.0000	10.6
*	67 Chlorobenzene - d5	117	8.677	8.677	(1.000)	1176029	10.0000	
	68 Chlorobenzene	112	8.722	8.722	(1.005)	1597079	10.0000	11.3
	69 Ethyl Benzene	91	8.970	8.970	(1.034)	2544387	10.0000	11.5
	70 m&p-Xylene	91	9.111	9.111	(1.050)	3817944	20.0000	22.9
	71 n-Nonane	43	9.497	9.497	(1.094)	1303188	10.0000	12.1
	72 Bromoform	173	9.516	9.516	(1.097)	988612	10.0000	10.6
	73 Styrene	104	9.539	9.539	(1.099)	1482342	10.0000	12.0
	74 o-Xylene	91	9.613	9.613	(1.108)	1952302	10.0000	11.4
	75 1,1,2,2-Tetrachloroethane	83	9.860	9.860	(1.136)	1145624	10.0000	12.6
	76 Isopropylbenzene	105	10.188	10.188	(1.174)	2669722	10.0000	11.4
	77 N-Propylbenzene	91	10.764	10.764	(1.240)	3046086	10.0000	12.6

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.937	10.937	(1.260)	2609385	10.0000	12.8
79	1,3,5-Trimethylbenzene	105	11.024	11.024	(1.270)	2187307	10.0000	12.3
80	n-Decane	57	11.397	11.397	(2.009)	1384035	10.0000	10.5
81	Tert-Butyl Benzene	119	11.516	11.516	(1.327)	2227512	10.0000	11.9
82	1,2,4-Trimethylbenzene	105	11.532	11.532	(1.329)	1986479	10.0000	12.3
83	1,3-Dichlorobenzene	146	11.815	11.815	(1.362)	1250223	10.0000	10.3
84	Sec- Butylbenzene	105	11.825	11.825	(1.363)	2820585	10.0000	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.870	11.870	(1.368)	627964	10.0000	11.7
86	Benzyl Chloride	91	11.883	11.883	(1.369)	1247491	10.0000	10.4
87	1,4-Dichlorobenzene	146	11.905	11.905	(1.372)	1251599	10.0000	10.8
88	p-Isopropyltoluene	119	12.005	12.005	(1.384)	2440744	10.0000	12.7
89	1,2,3-Trimethylbenzene	105	12.053	12.053	(1.389)	1939756	10.0000	12.4
90	1,2-Dichlorobenzene	146	12.297	12.297	(1.417)	1187050	10.0000	10.4
91	N-Butylbenzene	91	12.474	12.474	(1.438)	1920907	10.0000	10.4
92	1,2-Dibromo-3-Chloropropane	157	12.918	12.918	(1.489)	391613	10.0000	10.0
93	1,2,4-Trichlorobenzene	180	14.046	14.046	(1.619)	291959	10.0000	9.79
94	Naphthalene	128	14.182	14.182	(1.634)	793897	10.0000	9.81
95	Hexachlorobutadiene	225	14.419	14.419	(1.662)	391764	10.0000	10.7

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08932.D
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info:

Calibration Date: 30-MAR-2017
Calibration Time: 09:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

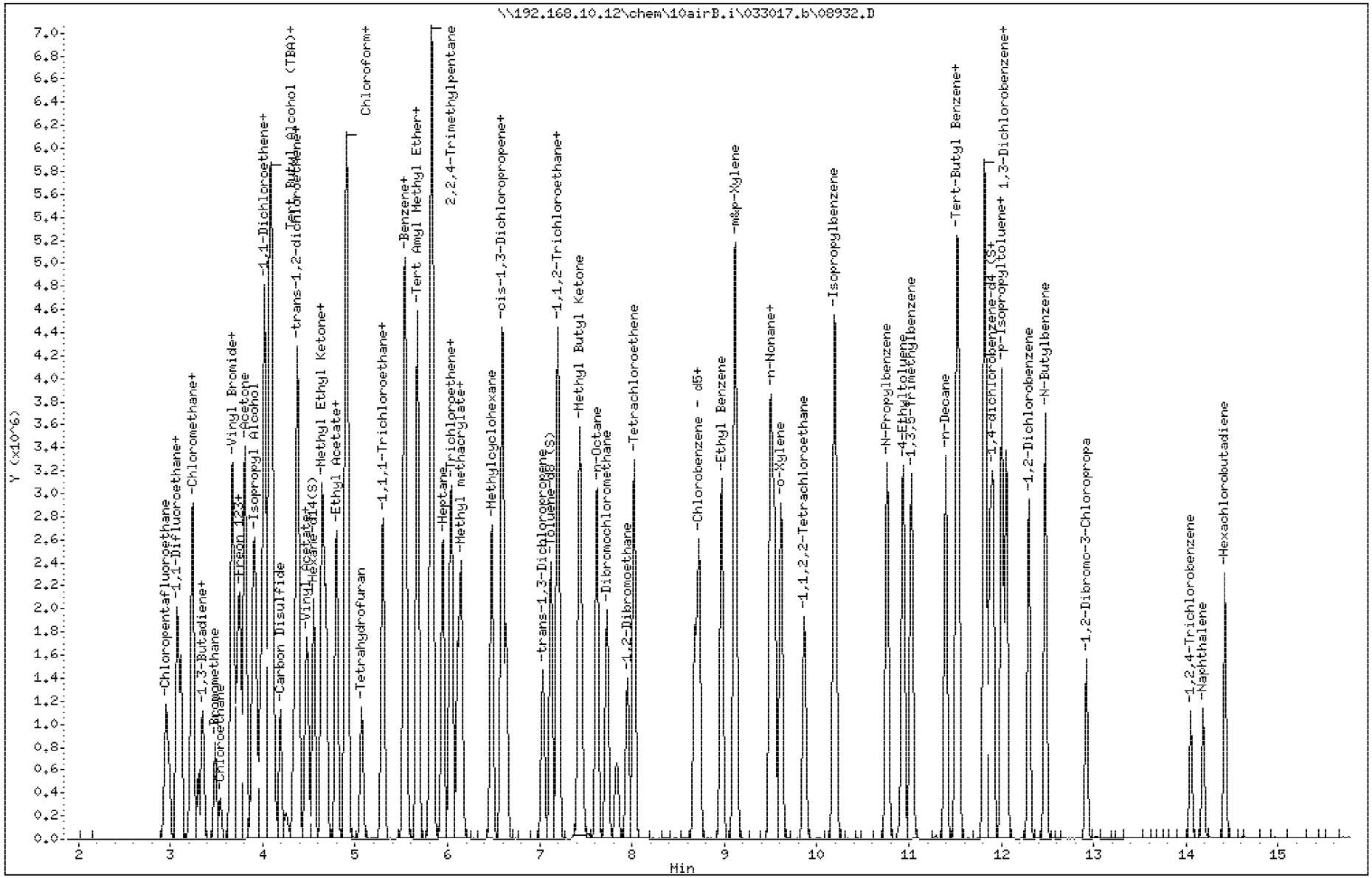
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	1818534	-0.21
67 Chlorobenzene - d	1204744	722846	1686642	1176029	-2.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.62	5.29	5.95	5.67	1.03
67 Chlorobenzene - d	8.65	8.32	8.98	8.68	0.37

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

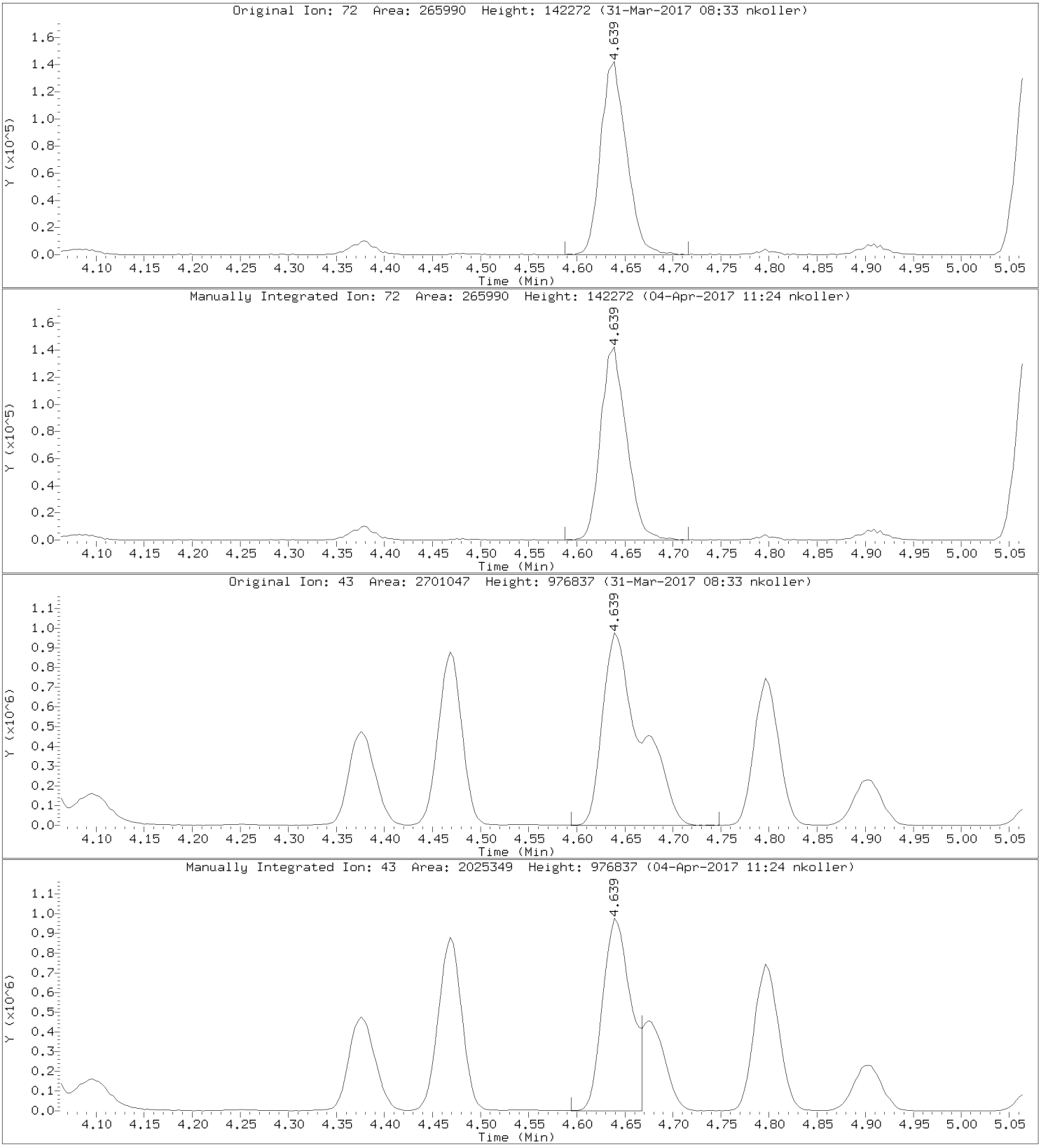
Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Date : 31-MAR-2017 03:32
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



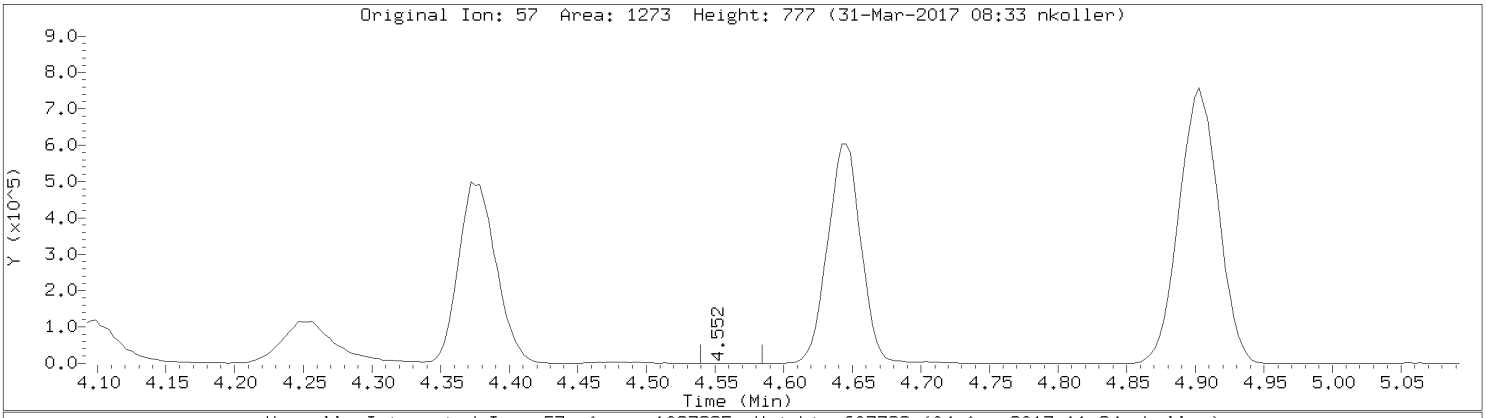
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

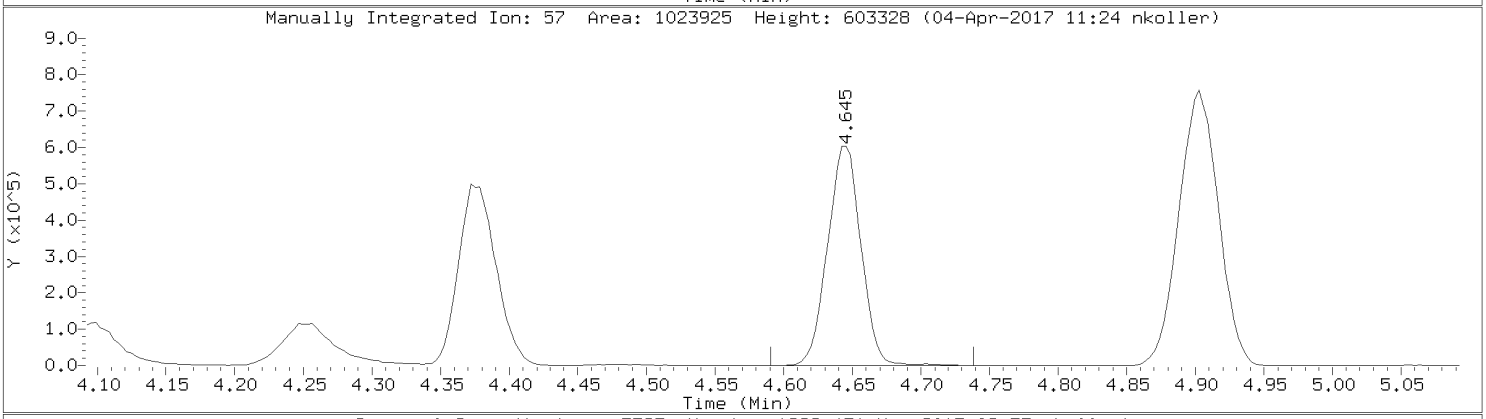
Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

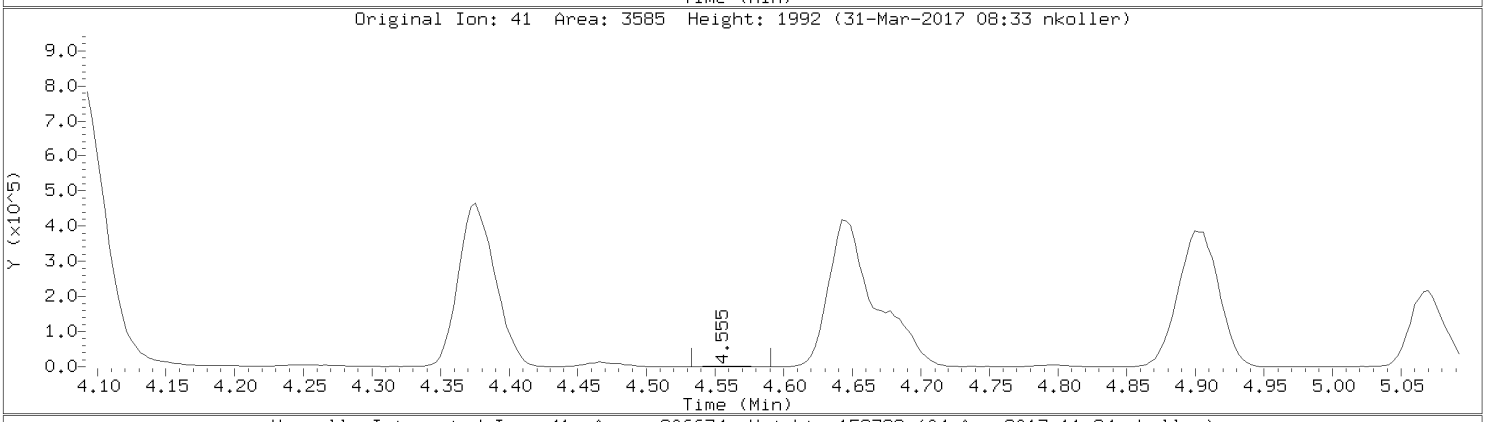


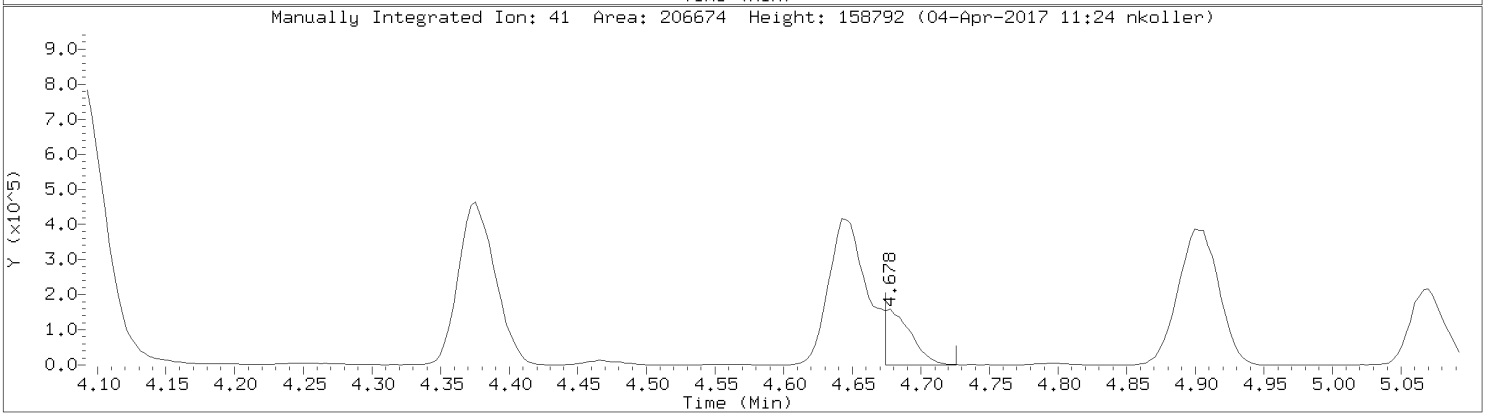
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: n-Hexane
CAS Number: 110-54-3

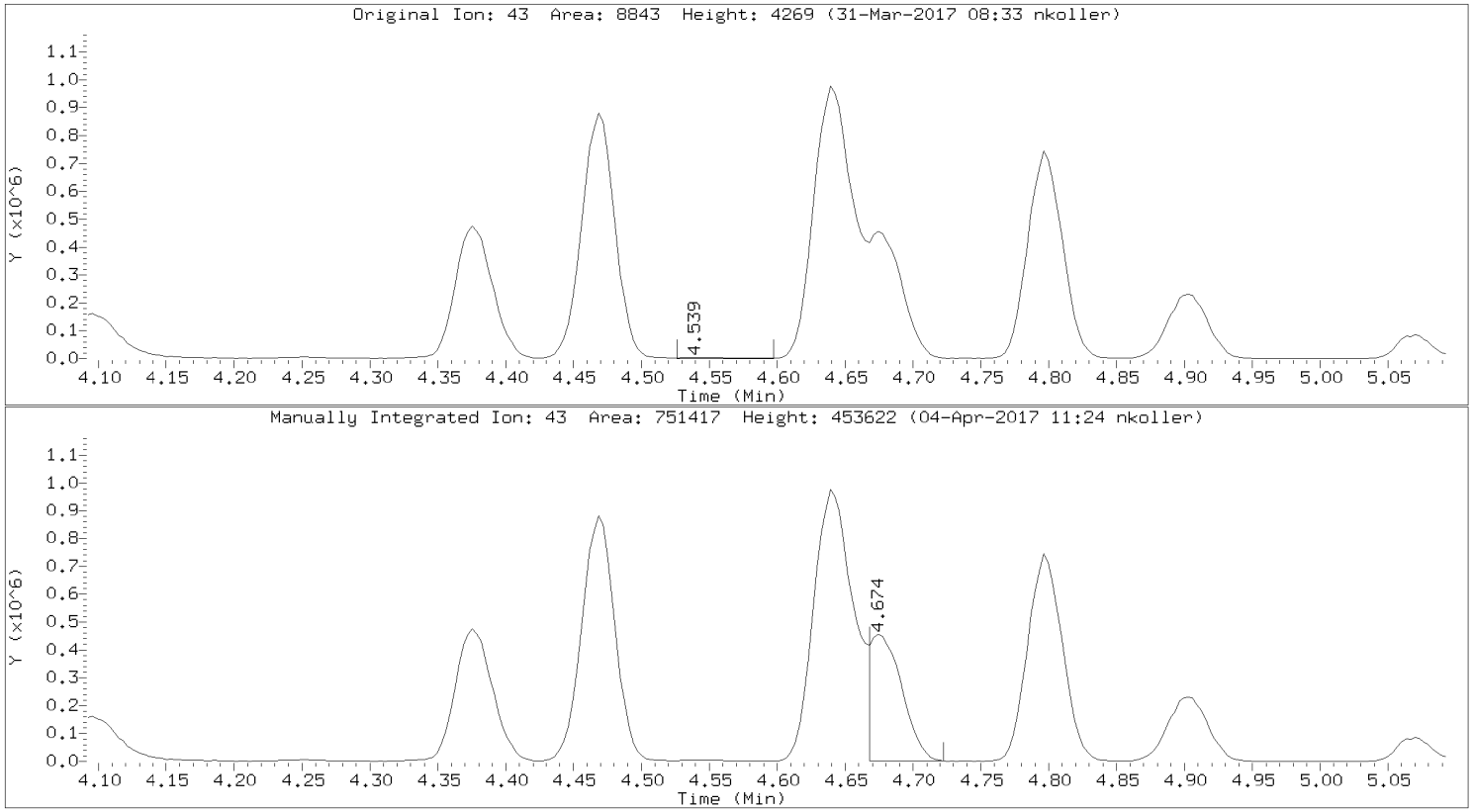






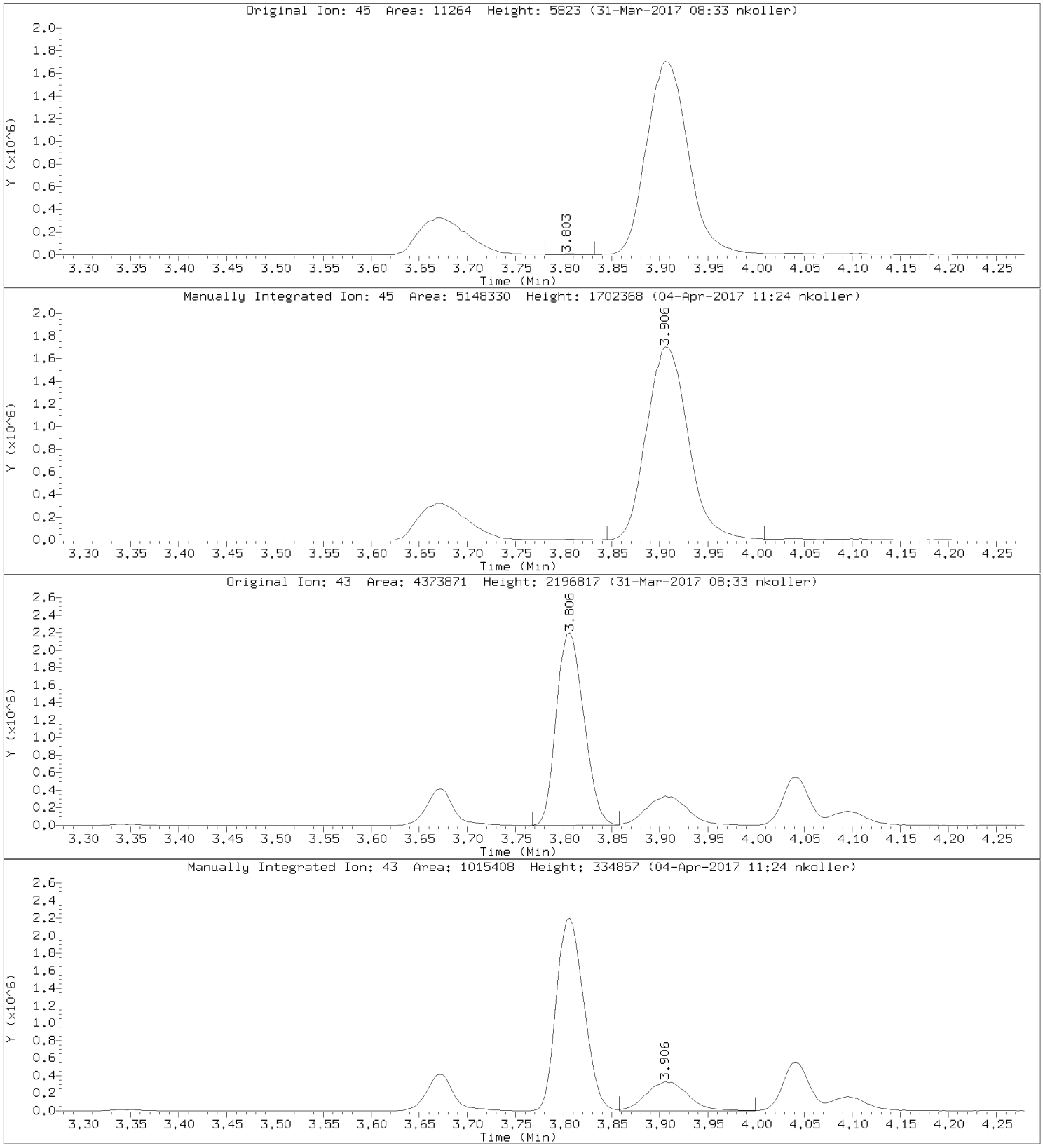


Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv



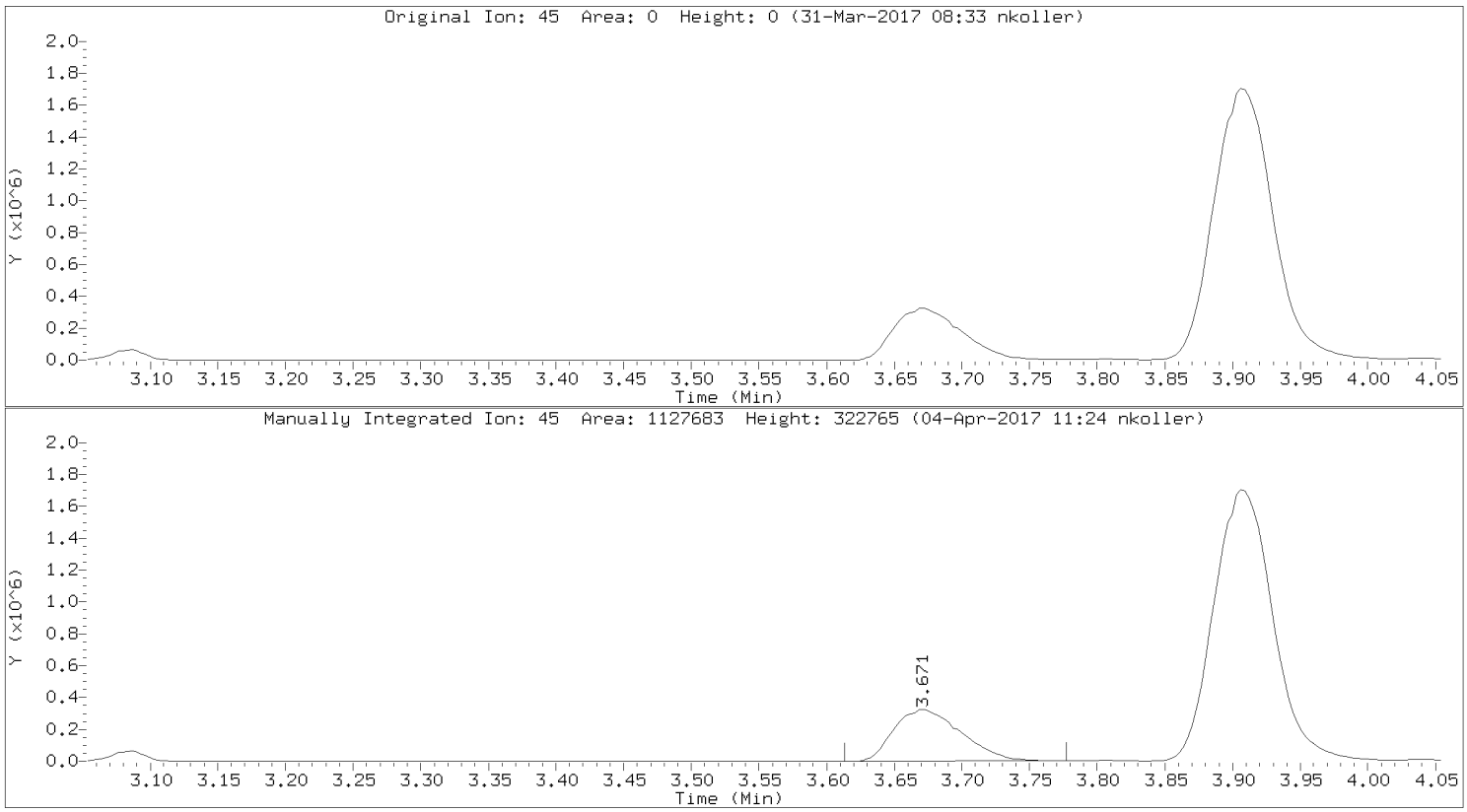
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



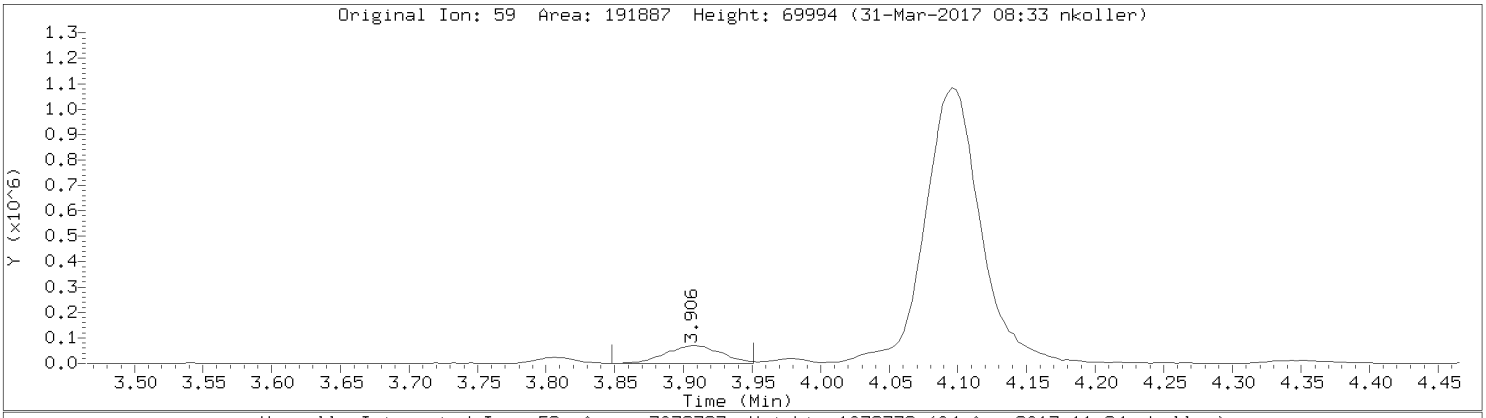
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

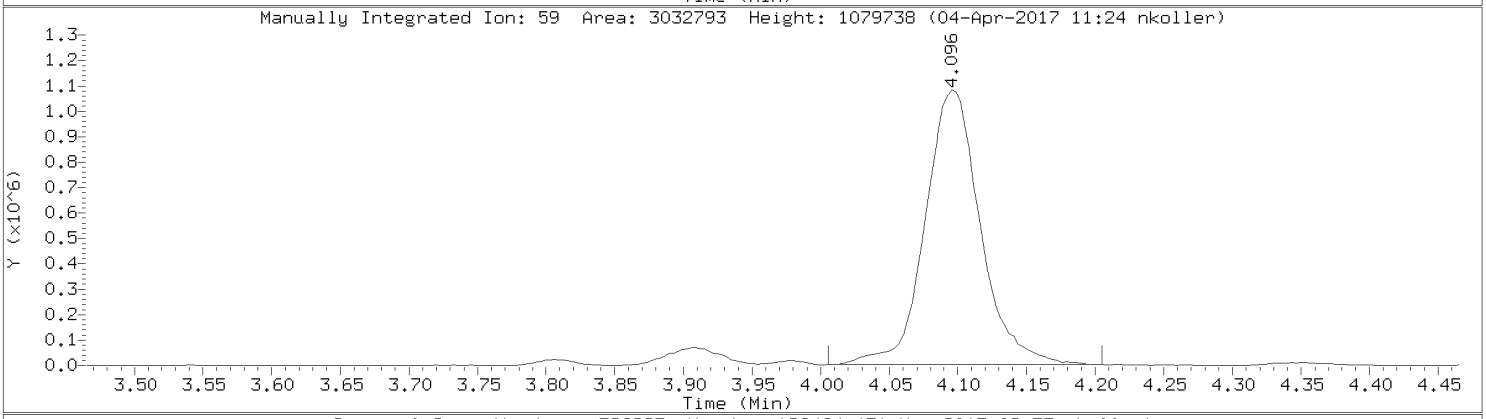
Compound: Ethanol
CAS Number: 64-17-5

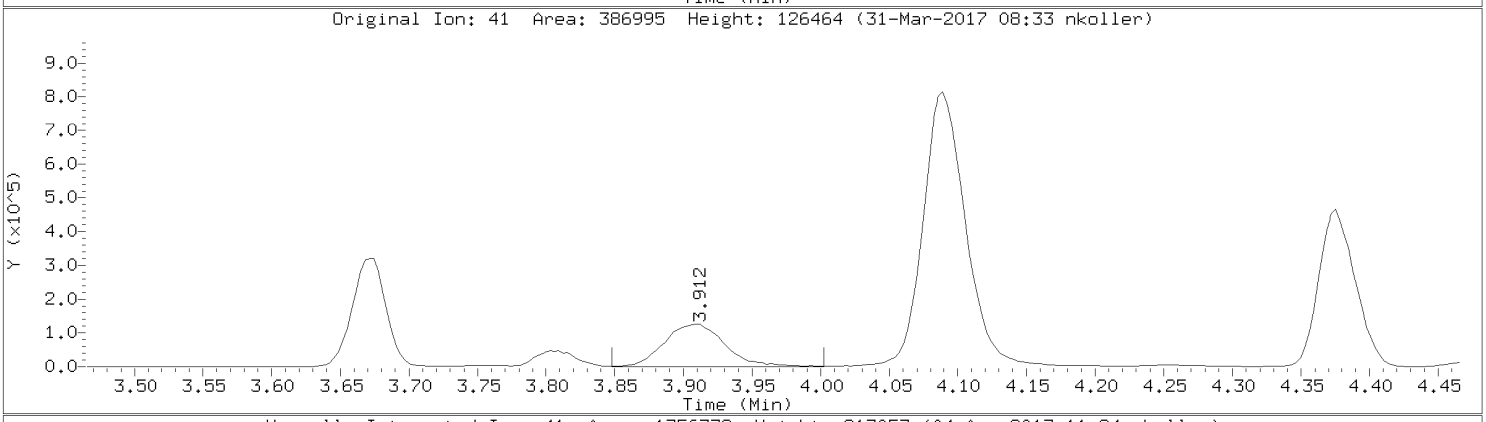


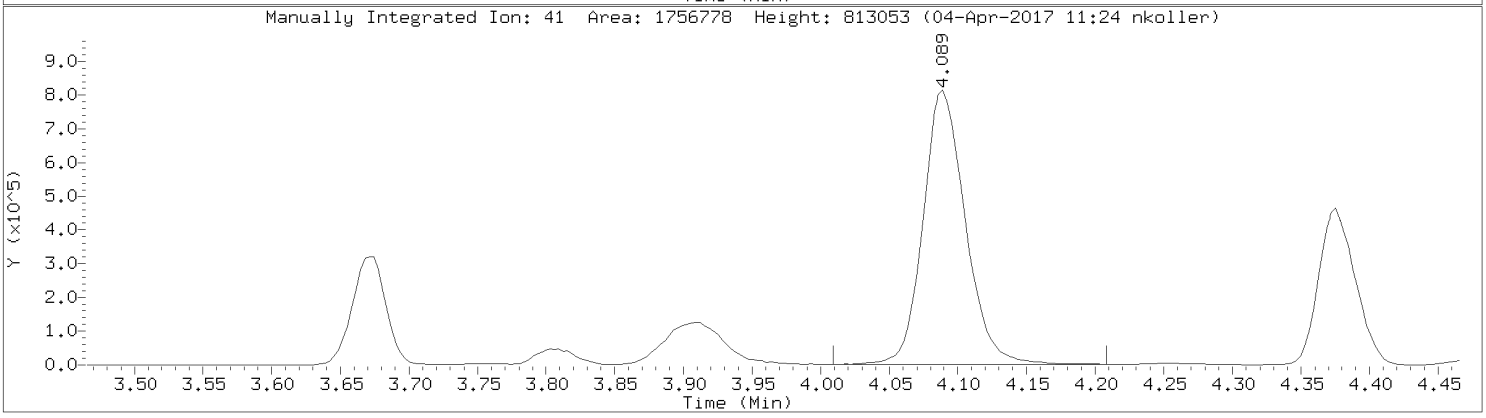
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0



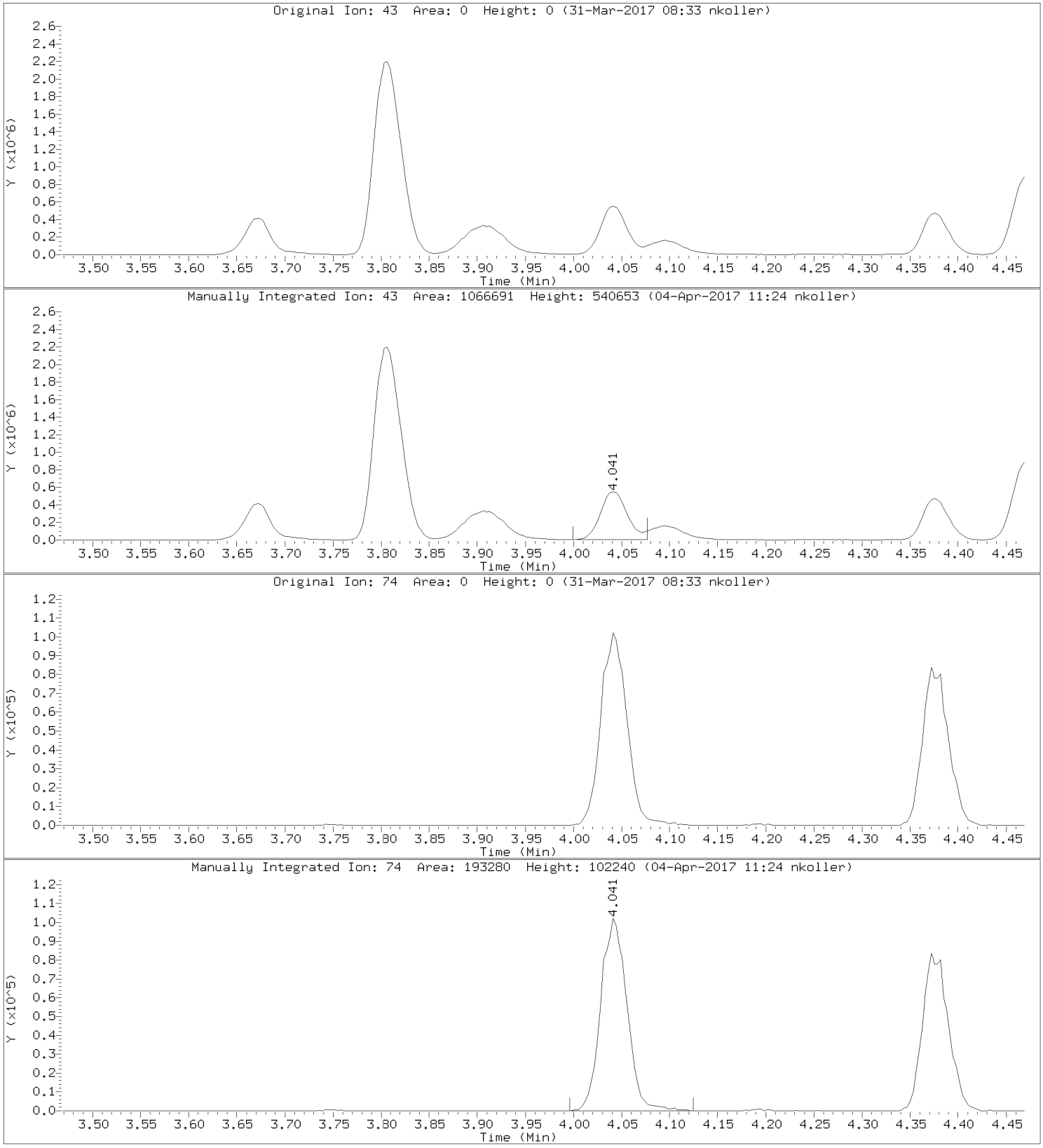




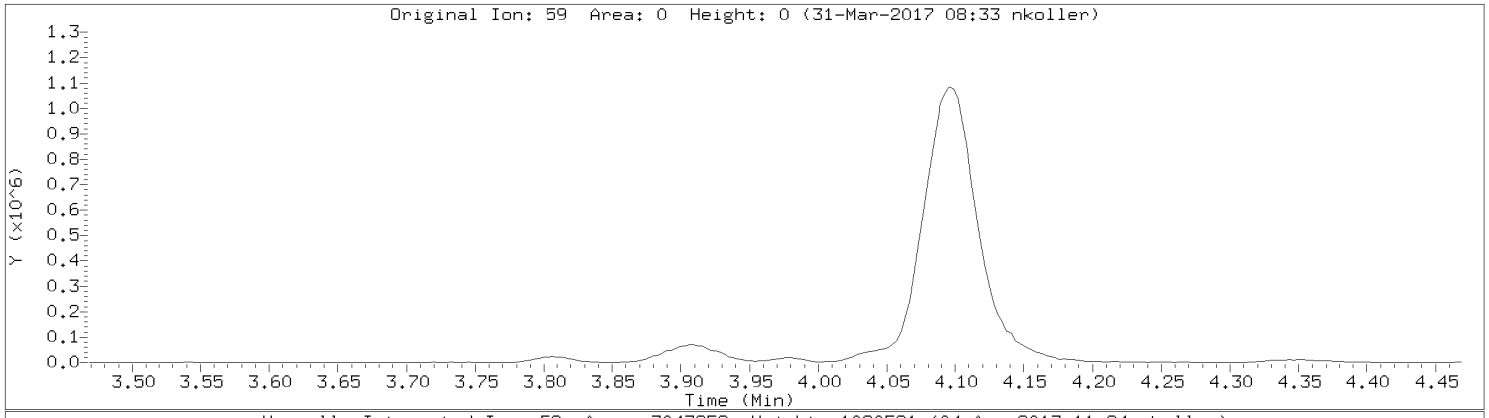


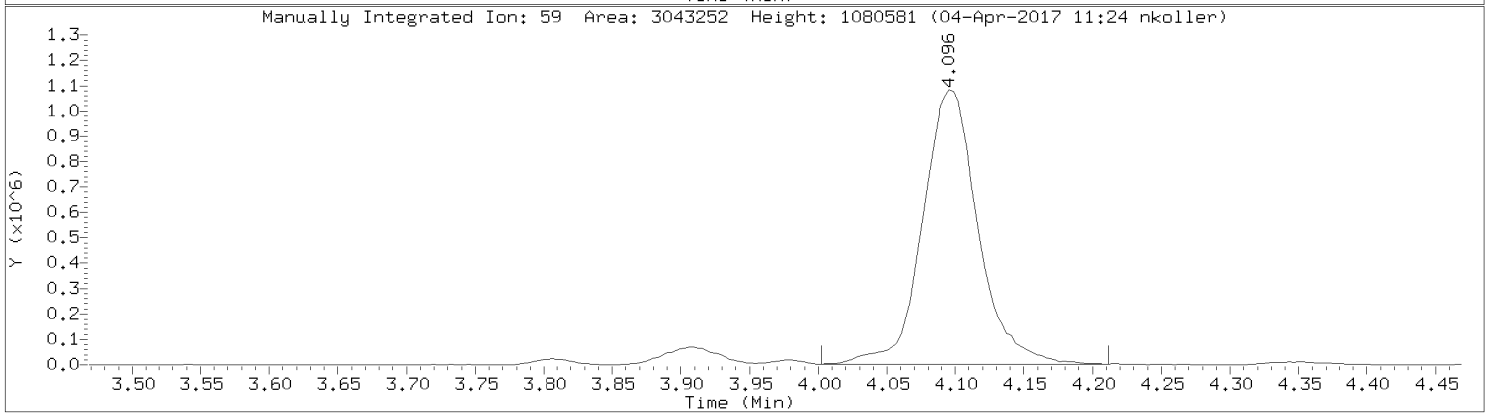
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: Methyl Acetate
CAS Number: 79-20-9



Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv





Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 01-APR-2017 07:31
Lab File ID: 09102.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	4.46302	0.09100	0.010	-55.36981	30.00000	Line		<-
	2 1,1-Difluoroethane	0.15603	0.17271	0.17271	0.010	10.69079	30.00000	Aver		
	3 Chlorodifluoromethane	0.07016	0.07342	0.07342	0.010	4.64237	30.00000	Aver		
	4 Propylene	0.19841	0.22168	0.22168	0.010	11.72920	30.00000	Aver		
	5 Dichlorodifluoromethane	0.73759	0.75248	0.75248	0.010	2.01789	30.00000	Aver		
	6 Chloromethane	0.32279	0.35837	0.35837	0.010	11.02382	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.64016	0.71714	0.71714	0.010	12.02486	30.00000	Aver		
	8 Vinyl chloride	0.25387	0.29142	0.29142	0.010	14.79086	30.00000	Aver		
	9 1,3-Butadiene	0.20298	0.22496	0.22496	0.010	10.82794	30.00000	Aver		
	10 Bromomethane	0.19460	0.22275	0.22275	0.010	14.47002	30.00000	Aver		
	11 Chloroethane	0.10802	0.12384	0.12384	0.010	14.65155	30.00000	Aver		
	12 Ethanol	0.09258	0.10474	0.10474	0.005	13.13490	30.00000	Aver		
	13 Vinyl Bromide	0.18751	0.21477	0.21477	0.010	14.53464	30.00000	Aver		
	14 Isopentane	0.26690	0.29074	0.29074	0.010	8.93064	30.00000	Aver		
	15 Freon 123	0.44208	0.49455	0.49455	0.010	11.86795	30.00000	Aver	(M)	
	16 Trichlorofluoromethane	0.49968	0.57183	0.57183	0.010	14.43988	30.00000	Aver		
	17 Acrolein	0.08522	0.10208	0.10208	0.010	19.78624	30.00000	Aver		
	18 Acetone	0.35696	0.39157	0.39157	0.010	9.69534	30.00000	Aver		
	19 Isopropyl Alcohol	0.40433	0.44445	0.44445	0.010	9.92298	30.00000	Aver		
	20 1,1-Dichloroethene	0.35814	0.39945	0.39945	0.010	11.53487	30.00000	Aver		
	21 Acrylonitrile	0.19077	0.20743	0.20743	0.010	8.73173	30.00000	Aver		
	22 Freon 113	0.41196	0.43739	0.43739	0.010	6.17239	30.00000	Aver		
	23 Methyl Acetate	0.59819	0.64186	0.64186	0.010	7.29963	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.49137	0.51233	0.51233	0.010	4.26556	30.00000	Aver		
	25 Methylene chloride	0.28536	0.29692	0.29692	0.010	4.04902	30.00000	Aver		
	26 Allyl Chloride	0.06773	0.08667	0.08667	0.010	27.96508	30.00000	Aver		
	27 Carbon Disulfide	0.43959	0.50395	0.50395	0.010	14.64093	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.19651	0.21321	0.21321	0.010	8.50036	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.51119	0.55527	0.55527	0.010	8.62215	30.00000	Aver		
	30 Vinyl Acetate	0.63361	0.71989	0.71989	0.010	13.61842	30.00000	Aver		
	31 1,1-Dichloroethane	0.38416	0.42997	0.42997	0.010	11.92726	30.00000	Aver		
$	32 Hexane-d14(S)	0.37726	0.36709	0.36709	0.010	-2.69595	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.10096	0.10536	0.10536	0.010	4.35315	30.00000	Aver	(Q)	
	34 n-Hexane	0.38395	0.42882	0.42882	0.010	11.68493	30.00000	Aver	(QM)	
	35 Di-isopropyl Ether	0.80676	0.86392	0.86392	0.010	7.08484	30.00000	Aver		
	36 Ethyl Acetate	0.53627	0.56321	0.56321	0.010	5.02431	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.21667	0.23014	0.23014	0.010	6.21744	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.75635	0.82831	0.82831	0.010	9.51416	30.00000	Aver		
	39 Chloroform	0.40530	0.47615	0.47615	0.010	17.48150	30.00000	Aver		
	40 Tetrahydrofuran	0.31276	0.34178	0.34178	0.010	9.27888	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.52387	0.60716	0.60716	0.010	15.89823	30.00000	Aver		
	42 1,2-Dichloroethane	0.43027	0.46828	0.46828	0.010	8.83407	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 01-APR-2017 07:31
Lab File ID: 09102.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	43 Benzene	0.75411	0.82468	0.82468	0.010	9.35686	30.00000	Aver	
	44 Carbon tetrachloride	0.52566	0.61881	0.61881	0.010	17.72027	30.00000	Aver	
	45 Cyclohexane	0.43434	0.47730	0.47730	0.010	9.89063	30.00000	Aver	
	46 Tert Amyl Methyl Ether	0.81416	0.78601	0.78601	0.010	-3.45703	30.00000	Aver	
	48 2,2,4-Trimethylpentane	1.32797	1.48397	1.48397	0.010	11.74677	30.00000	Aver	
	49 Heptane	0.51802	0.56513	0.56513	0.010	9.09318	30.00000	Aver	
	50 1,2-Dichloropropane	0.30863	0.33650	0.33650	0.010	9.02896	30.00000	Aver	
	51 Trichloroethene	0.40560	0.42526	0.42526	0.010	4.84700	30.00000	Aver	
	52 Methyl methacrylate	0.27259	0.29305	0.29305	0.010	7.50707	30.00000	Aver	
	53 1,4-Dioxane	0.18592	0.20798	0.20798	0.010	11.86868	30.00000	Aver	
	54 Bromodichloromethane	0.53129	0.61697	0.61697	0.010	16.12761	30.00000	Aver	
	55 Methylcyclohexane	0.21540	0.24302	0.24302	0.010	12.82259	30.00000	Aver	
	56 Methyl Isobutyl Ketone	0.70682	0.76903	0.76903	0.010	8.80190	30.00000	Aver	
	57 cis-1,3-Dichloropropene	0.41679	0.48972	0.48972	0.010	17.49890	30.00000	Aver	
	58 trans-1,3-Dichloropropene	0.36525	0.45840	0.45840	0.010	25.50095	30.00000	Aver	
$	59 Toluene-d8 (S)	0.83782	0.86457	0.86457	0.010	3.19281	30.00000	Aver	
	60 1,1,2-Trichloroethane	0.32854	0.35395	0.35395	0.010	7.73339	30.00000	Aver	
	61 Toluene	0.96913	1.03216	1.03216	0.010	6.50342	30.00000	Aver	
	62 Methyl Butyl Ketone	1.00495	1.11595	1.11595	0.010	11.04567	30.00000	Aver	
	63 n-Octane	1.13917	1.17912	1.17912	0.010	3.50730	30.00000	Aver	
	64 Dibromochloromethane	0.96719	1.07096	1.07096	0.010	10.72884	30.00000	Aver	
	65 1,2-Dibromoethane	0.88855	0.93373	0.93373	0.010	5.08550	30.00000	Aver	
	66 Tetrachloroethene	0.88546	0.84323	0.84323	0.010	-4.76834	30.00000	Aver	
	68 Chlorobenzene	1.37212	1.36744	1.36744	0.010	-0.34101	30.00000	Aver	
	69 Ethyl Benzene	2.12376	2.18997	2.18997	0.010	3.11761	30.00000	Aver	
	70 m&p-Xylene	1.60469	1.63648	1.63648	0.010	1.98154	30.00000	Aver	
	71 n-Nonane	1.04383	1.10665	1.10665	0.010	6.01871	30.00000	Aver	
	72 Bromoform	0.72919	0.90757	0.90757	0.010	24.46227	30.00000	Aver	
	73 Styrene	1.20677	1.30658	1.30658	0.010	8.27117	30.00000	Aver	
	74 o-Xylene	1.67239	1.69296	1.69296	0.010	1.23034	30.00000	Aver	
	75 1,1,2,2-Tetrachloroethane	0.94443	1.00719	1.00719	0.010	6.64533	30.00000	Aver	
	76 Isopropylbenzene	2.33960	2.32996	2.32996	0.010	-0.41193	30.00000	Aver	
	77 N-Propylbenzene	2.41285	2.69930	2.69930	0.010	11.87176	30.00000	Aver	
	78 4-Ethyltoluene	2.03882	2.28582	2.28582	0.010	12.11484	30.00000	Aver	
	79 1,3,5-Trimethylbenzene	1.81770	1.92727	1.92727	0.010	6.02792	30.00000	Aver	
	80 n-Decane	0.63385	0.80560	0.80560	0.010	27.09632	30.00000	Aver	
	81 Tert-Butyl Benzene	1.90446	2.00188	2.00188	0.010	5.11503	30.00000	Aver	
	82 1,2,4-Trimethylbenzene	1.63637	1.77152	1.77152	0.010	8.25922	30.00000	Aver	
	83 1,3-Dichlorobenzene	0.96807	1.15372	1.15372	0.010	19.17779	30.00000	Aver	
	84 Sec- Butylbenzene	2.36712	2.52969	2.52969	0.010	6.86801	30.00000	Aver	
$	85 1,4-dichlorobenzene-d4 (S)	0.45185	0.54238	0.54238	0.010	20.03529	30.00000	Aver	
	86 Benzyl Chloride	10.00000	10.97980	1.15603	0.010	9.79803	30.00000	Line	

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 01-APR-2017 07:31
Lab File ID: 09102.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.93597	1.12827	1.12827	0.010	20.54504	30.00000	Aver	
88 p-Isopropyltoluene	1.99394	2.20570	2.20570	0.010	10.62001	30.00000	Aver	
89 1,2,3-Trimethylbenzene	1.62903	1.75904	1.75904	0.010	7.98039	30.00000	Aver	
90 1,2-Dichlorobenzene	0.90579	1.09026	1.09026	0.010	20.36564	30.00000	Aver	
91 N-Butylbenzene	1.41861	1.76538	1.76538	0.010	24.44447	30.00000	Aver	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.44465	0.38087	0.010	4.44649	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	10.31529	0.31513	0.010	3.15292	30.00000	Quad	
94 Naphthalene	10.00000	9.72651	0.86255	0.010	-2.73487	30.00000	Line	
95 Hexachlorobutadiene	10.00000	11.58062	0.40394	0.010	15.80617	30.00000	Line	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Average %D / Drift Results.
Calculated Average %D/Drift = 10.82495
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Lab Smp Id: CCV
Inj Date : 01-APR-2017 07:31
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m
Meth Date : 01-Apr-2017 12:01 10airB.i Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.915	2.915	(0.520)	162616	10.0000	4.46
2	1,1-Difluoroethane	65	2.996	2.996	(0.534)	308628	10.0000	11.1
3	Chlorodifluoromethane	67	3.002	3.002	(0.535)	131202	10.0000	10.5
4	Propylene	41	2.999	2.999	(0.535)	396140	10.0000	11.2
5	Dichlorodifluoromethane	85	3.034	3.034	(0.541)	1344667	10.0000	10.2
6	Chloromethane	50	3.137	3.137	(0.559)	640401	10.0000	11.1
7	Dichlorotetrafluoroethane	85	3.147	3.147	(0.561)	1281512	10.0000	11.2
8	Vinyl chloride	62	3.214	3.214	(0.573)	520758	10.0000	11.5
9	1,3-Butadiene	54	3.263	3.263	(0.582)	401999	10.0000	11.1
10	Bromomethane	94	3.398	3.398	(0.606)	398059	10.0000	11.4
11	Chloroethane	64	3.452	3.452	(0.615)	221306	10.0000	11.5
12	Ethanol	45	3.545	3.545	(0.632)	935847	50.0000	56.6
13	Vinyl Bromide	106	3.571	3.571	(0.637)	383790	10.0000	11.5
14	Isopentane	43	3.590	3.590	(0.640)	519548	10.0000	10.9
15	Freon 123	83	3.632	3.632	(0.648)	883756	10.0000	11.2(M)
16	Trichlorofluoromethane	101	3.668	3.668	(0.654)	1021851	10.0000	11.4
17	Acrolein	56	3.681	3.681	(0.656)	456021	25.0000	29.9
18	Acetone	43	3.719	3.719	(0.663)	3498664	50.0000	54.8
19	Isopropyl Alcohol	45	3.767	3.767	(0.672)	3971149	50.0000	55.0
20	1,1-Dichloroethene	61	3.902	3.902	(0.696)	713807	10.0000	11.2
21	Acrylonitrile	53	3.928	3.928	(0.700)	926699	25.0000	27.2
22	Freon 113	101	3.944	3.944	(0.703)	781605	10.0000	10.6
23	Methyl Acetate	43	3.957	3.957	(0.705)	1146992	10.0000	10.7

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.957	(0.705)	2288805	25.0000	26.1
	25 Methylene chloride	49	4.005	4.005	(0.714)	2652946	50.0000	52.0
	26 Allyl Chloride	76	4.015	4.015	(0.716)	387209	25.0000	32.0
	27 Carbon Disulfide	76	4.121	4.121	(0.735)	900557	10.0000	11.5
	28 trans-1,2-dichloroethene	96	4.272	4.272	(0.762)	381012	10.0000	10.9
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.767)	2480648	25.0000	27.2
	30 Vinyl Acetate	43	4.388	4.388	(0.782)	1286441	10.0000	11.4
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	768359	10.0000	11.2
$	32 Hexane-d14(S)	66	4.484	4.484	(0.799)	655977	10.0000	9.73
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.811)	188271	10.0000	10.4(Q)
	34 n-Hexane	57	4.581	4.581	(0.817)	766295	10.0000	11.2(QM)
	35 Di-isopropyl Ether	45	4.603	4.603	(0.821)	1543809	10.0000	10.7
	36 Ethyl Acetate	43	4.716	4.716	(0.841)	1006450	10.0000	10.5
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	411258	10.0000	10.6
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.861)	3700449	25.0000	27.4
	39 Chloroform	83	4.841	4.841	(0.863)	850879	10.0000	11.7
	40 Tetrahydrofuran	42	4.992	4.992	(0.890)	610752	10.0000	10.9
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	1084981	10.0000	11.6
	42 1,2-Dichloroethane	62	5.237	5.237	(0.934)	836803	10.0000	10.9
	43 Benzene	78	5.465	5.465	(0.974)	1473685	10.0000	10.9
	44 Carbon tetrachloride	117	5.484	5.484	(0.978)	1105813	10.0000	11.8
	45 Cyclohexane	56	5.488	5.488	(0.978)	852934	10.0000	11.0
	46 Tert Amyl Methyl Ether	73	5.606	5.606	(0.999)	1404596	10.0000	9.65
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	1786987	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.029)	6629572	25.0000	27.9
	49 Heptane	43	5.889	5.889	(1.050)	1009877	10.0000	10.9
	50 1,2-Dichloropropane	63	5.967	5.967	(1.064)	601315	10.0000	10.9
	51 Trichloroethene	130	5.989	5.989	(1.068)	759935	10.0000	10.5
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	523683	10.0000	10.8
	53 1,4-Dioxane	88	6.063	6.063	(1.081)	371662	10.0000	11.2
	54 Bromodichloromethane	83	6.086	6.086	(1.085)	1102521	10.0000	11.6
	55 Methylcyclohexane	98	6.433	6.433	(1.147)	434265	10.0000	11.3
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.164)	3435619	25.0000	27.2
	57 cis-1,3-Dichloropropene	75	6.584	6.584	(1.174)	875126	10.0000	11.7
	58 trans-1,3-Dichloropropene	75	6.983	6.983	(1.245)	819152	10.0000	12.6
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1544974	10.0000	10.3
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	632502	10.0000	10.8
	61 Toluene	91	7.150	7.150	(1.275)	1844457	10.0000	10.7
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	3194020	25.0000	27.8
	63 n-Octane	43	7.581	7.581	(0.877)	1349935	10.0000	10.4
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	1226102	10.0000	11.1
	65 1,2-Dibromoethane	107	7.905	7.905	(0.915)	1068998	10.0000	10.5
	66 Tetrachloroethene	166	7.983	7.983	(0.924)	965387	10.0000	9.52
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	1144863	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	1565528	10.0000	9.97
	69 Ethyl Benzene	91	8.934	8.934	(1.034)	2507221	10.0000	10.3
	70 m&p-Xylene	91	9.082	9.082	(1.051)	3747102	20.0000	20.4
	71 n-Nonane	43	9.471	9.471	(1.096)	1266968	10.0000	10.6
	72 Bromoform	173	9.478	9.478	(1.097)	1039039	10.0000	12.4
	73 Styrene	104	9.507	9.507	(1.100)	1495859	10.0000	10.8
	74 o-Xylene	91	9.581	9.581	(1.109)	1938212	10.0000	10.1
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1153100	10.0000	10.7
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	2667486	10.0000	9.96
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	3090329	10.0000	11.2

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.263)	2616955	10.0000	11.2
79	1,3,5-Trimethylbenzene	105	10.999	10.999	(1.273)	2206459	10.0000	10.6
80	n-Decane	57	11.378	11.378	(2.028)	1439595	10.0000	12.7
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2291876	10.0000	10.5
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	2028150	10.0000	10.8
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.365)	1320856	10.0000	11.9
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	2896153	10.0000	10.7
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.372)	620951	10.0000	12.0
86	Benzyl Chloride	91	11.863	11.863	(1.373)	1323491	10.0000	11.0
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.376)	1291710	10.0000	12.1
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	2525220	10.0000	11.1
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	2013855	10.0000	10.8
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	1248195	10.0000	12.0
91	N-Butylbenzene	91	12.462	12.462	(1.442)	2021118	10.0000	12.4
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	436046	10.0000	10.4
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.624)	360783	10.0000	10.3
94	Naphthalene	128	14.156	14.156	(1.638)	987500	10.0000	9.73
95	Hexachlorobutadiene	225	14.391	14.391	(1.665)	462458	10.0000	11.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09102.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m
Misc Info:

Calibration Date: 31-MAR-2017
Calibration Time: 17:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

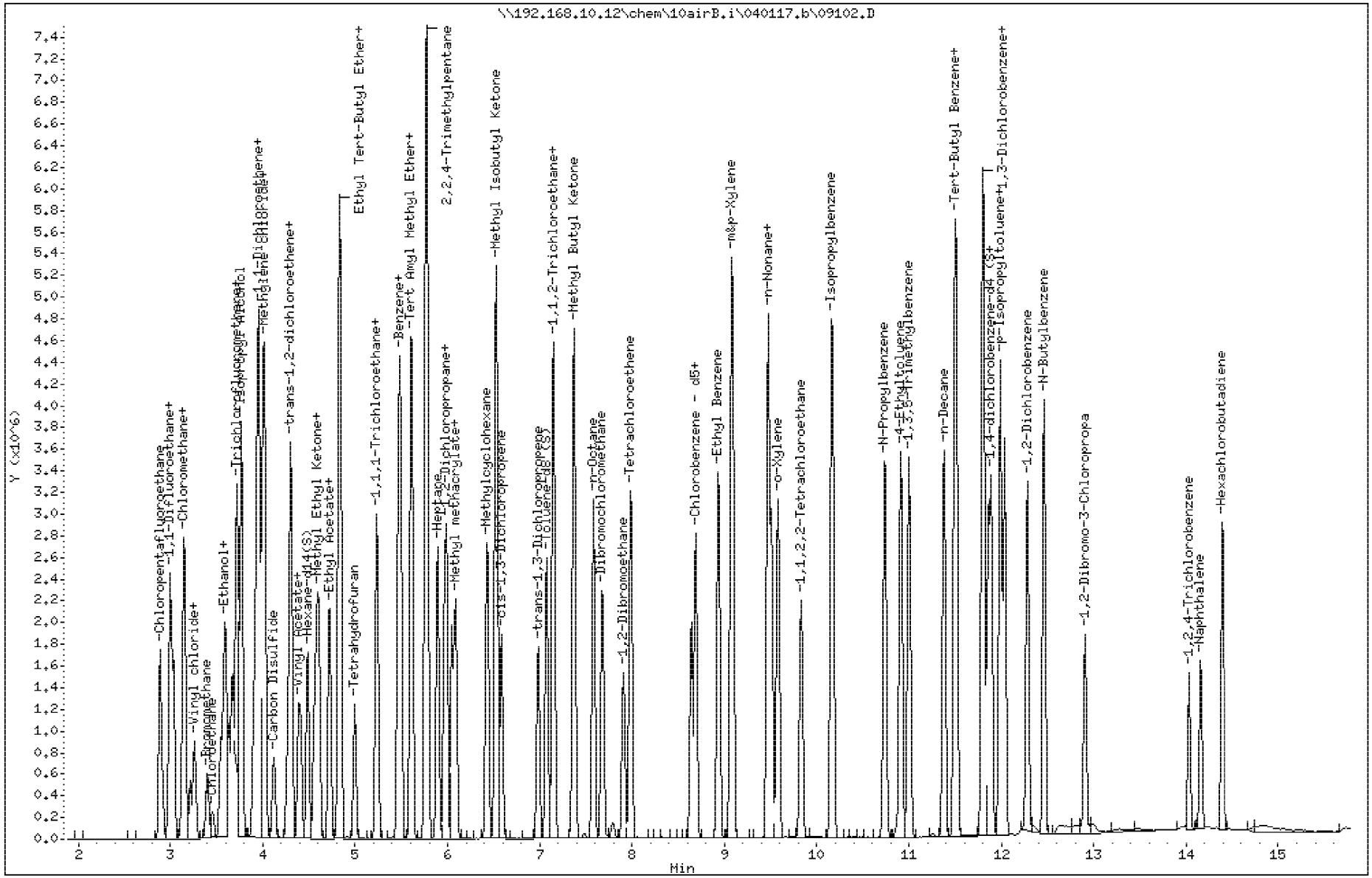
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1786987	-7.73
67 Chlorobenzene - d	1173864	704318	1643410	1144863	-2.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

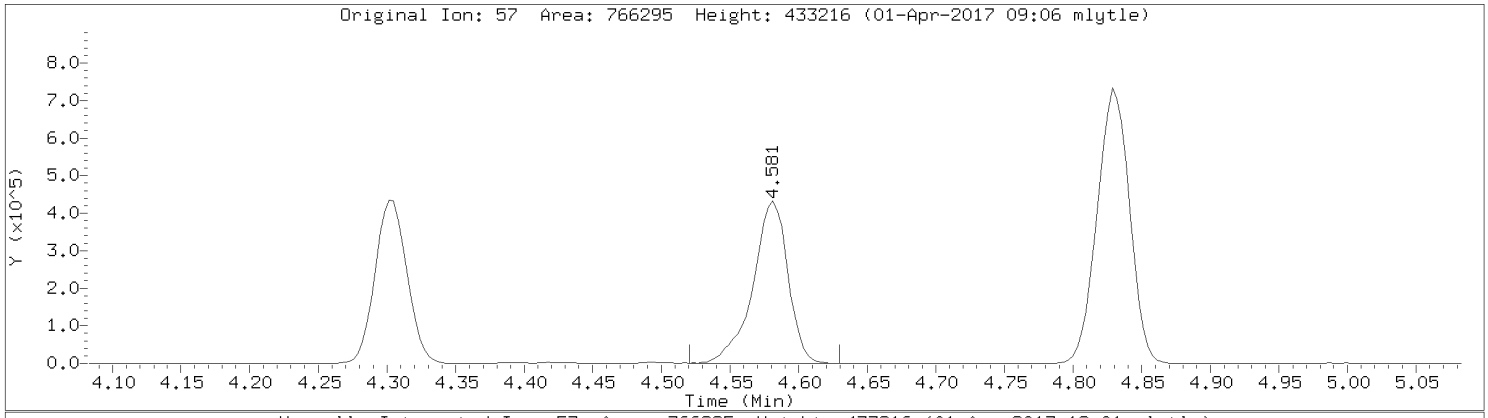
Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Date : 01-APR-2017 07:31
Client ID:
Sample Info:

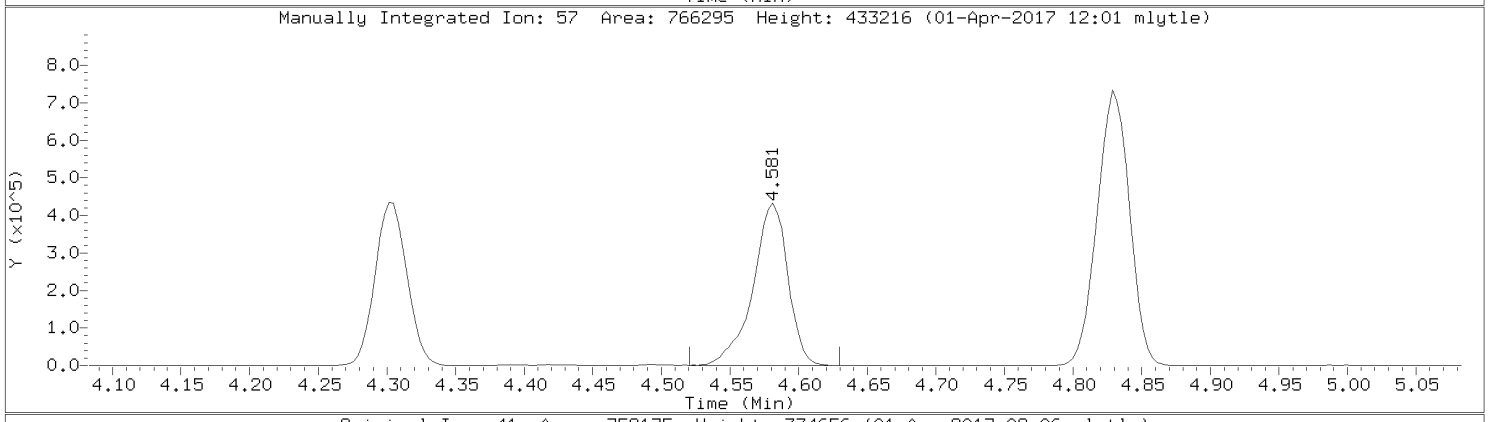
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

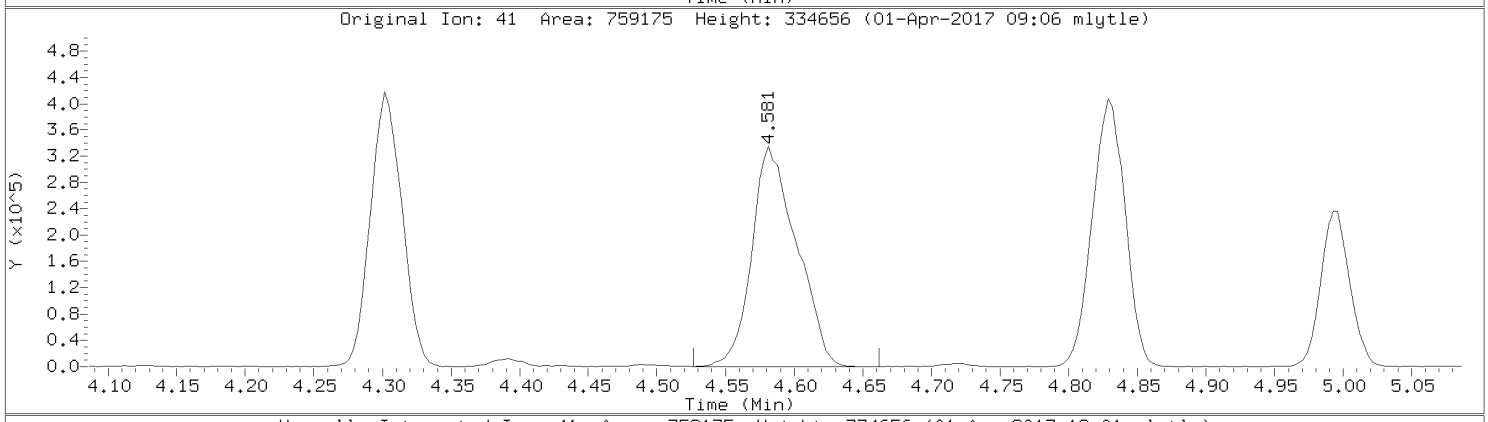


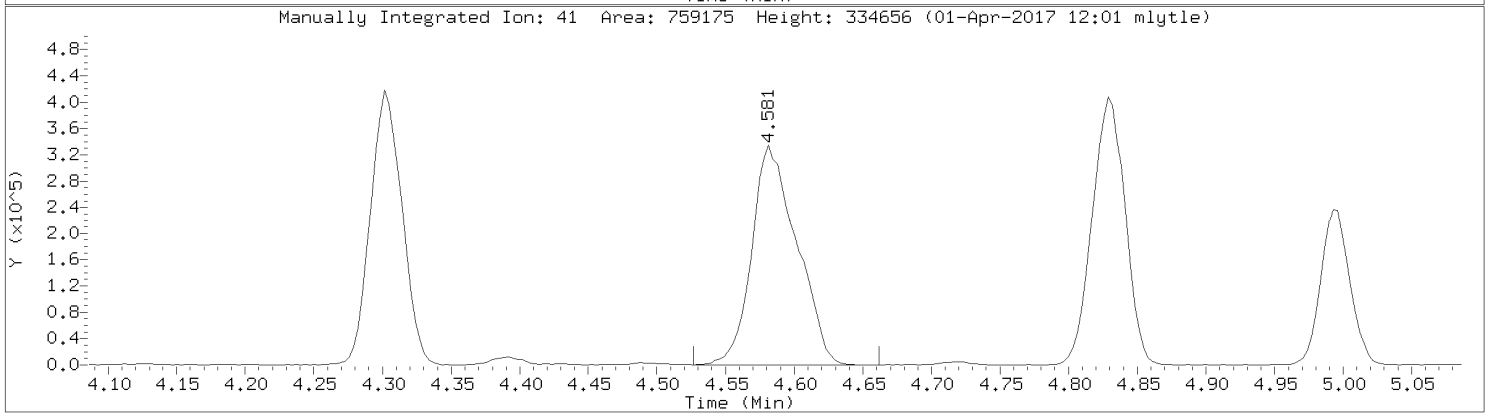
Data File: \\192.168.10.12\chem\10airB.i\040117.b/09102.D
Injection Date: 01-APR-2017 07:31
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

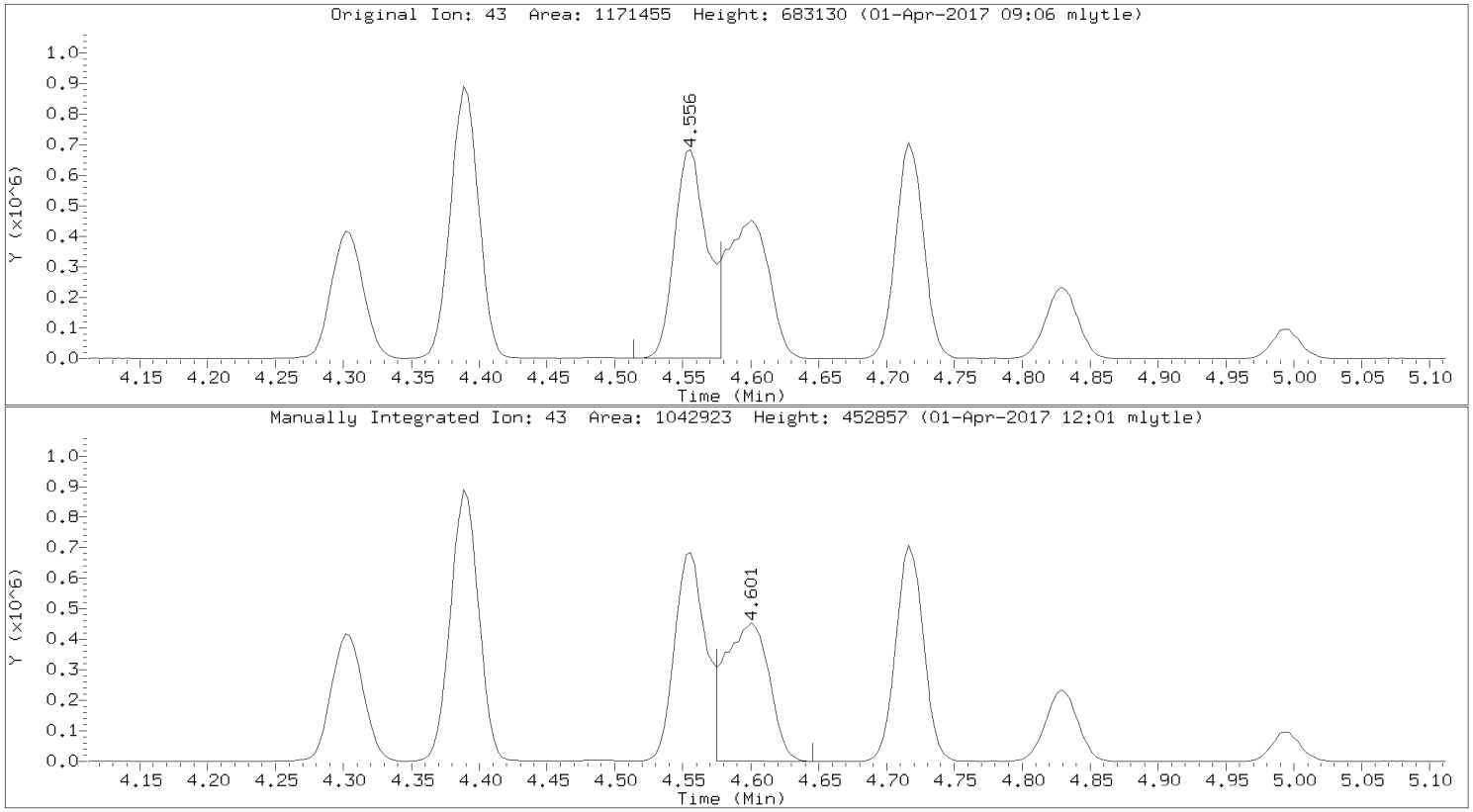






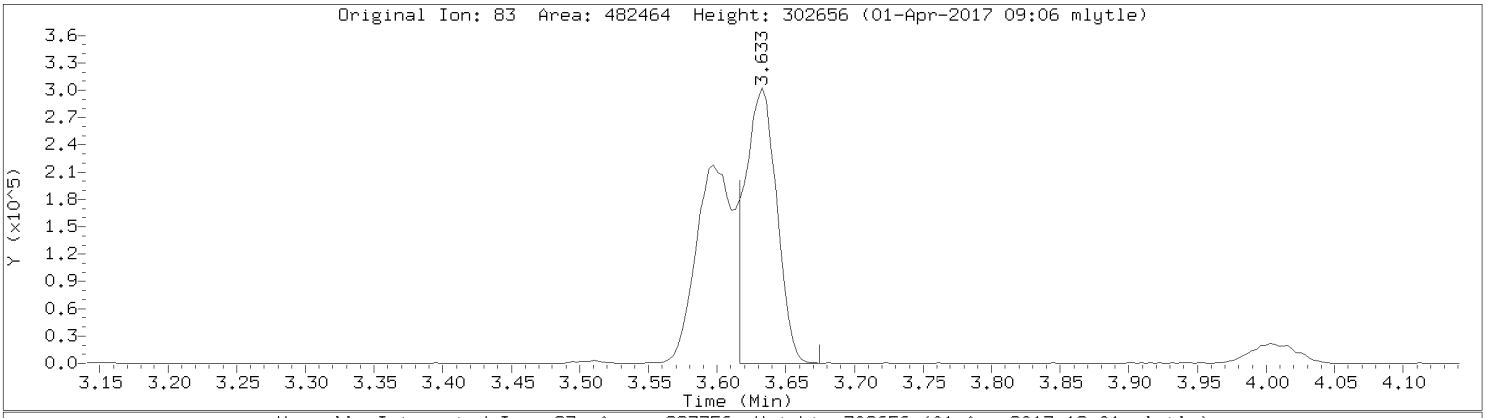


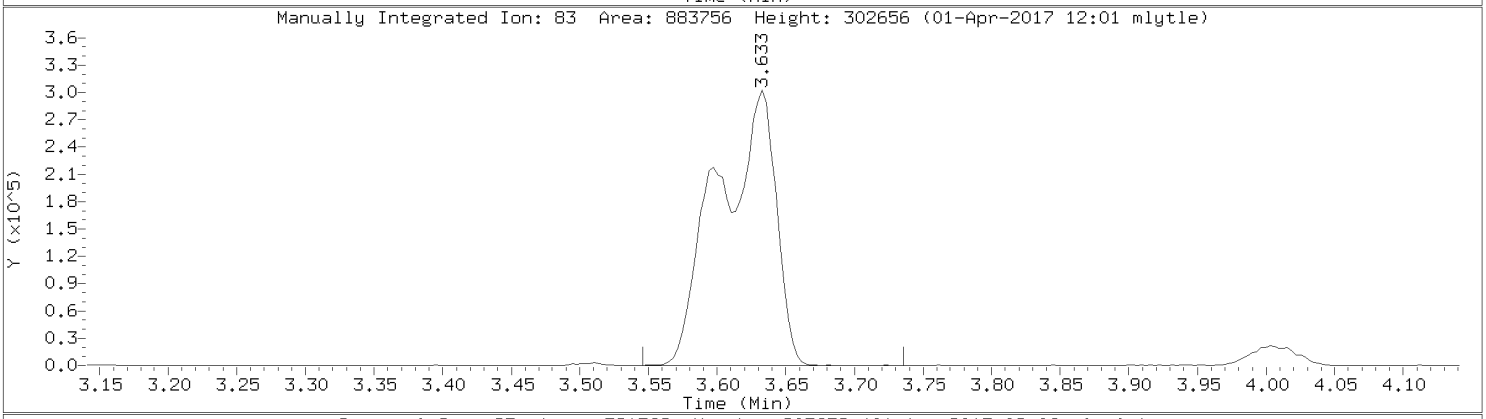
Data File: \\192.168.10.12\chem\10airB.i\040117.b/09102.D
Injection Date: 01-APR-2017 07:31
Instrument: 10airB.i
Lab Sample ID: CCV

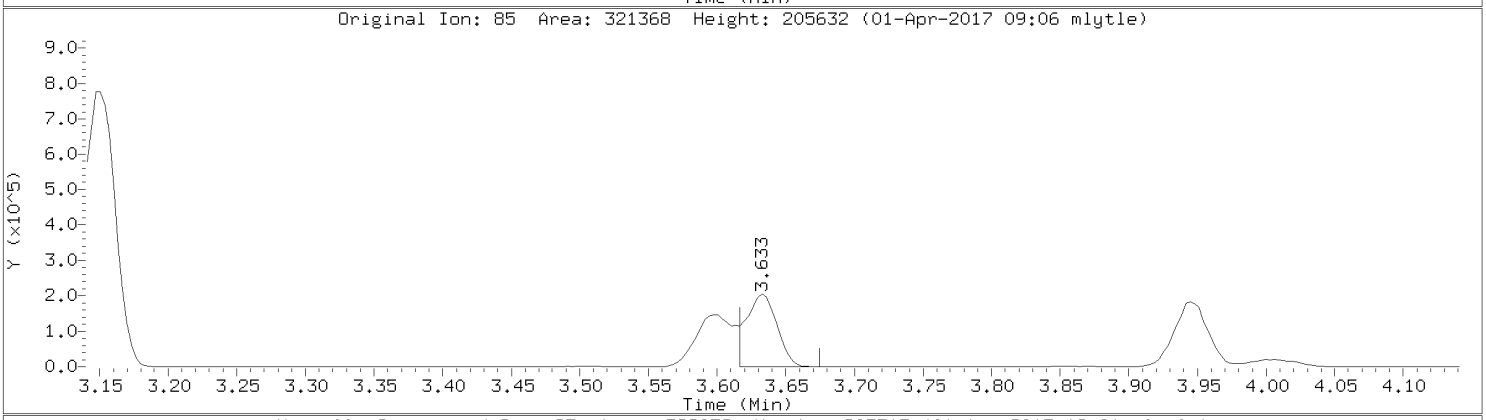


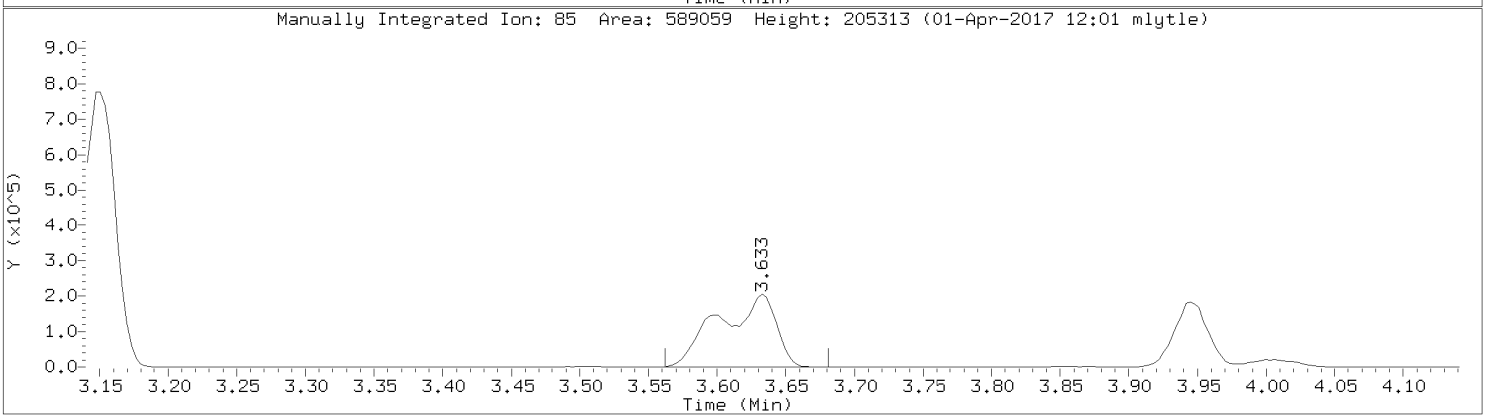
Data File: \\192.168.10.12\chem\10airB.i\040117.b/09102.D
Injection Date: 01-APR-2017 07:31
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: Freon 123
CAS Number: 306-83-2

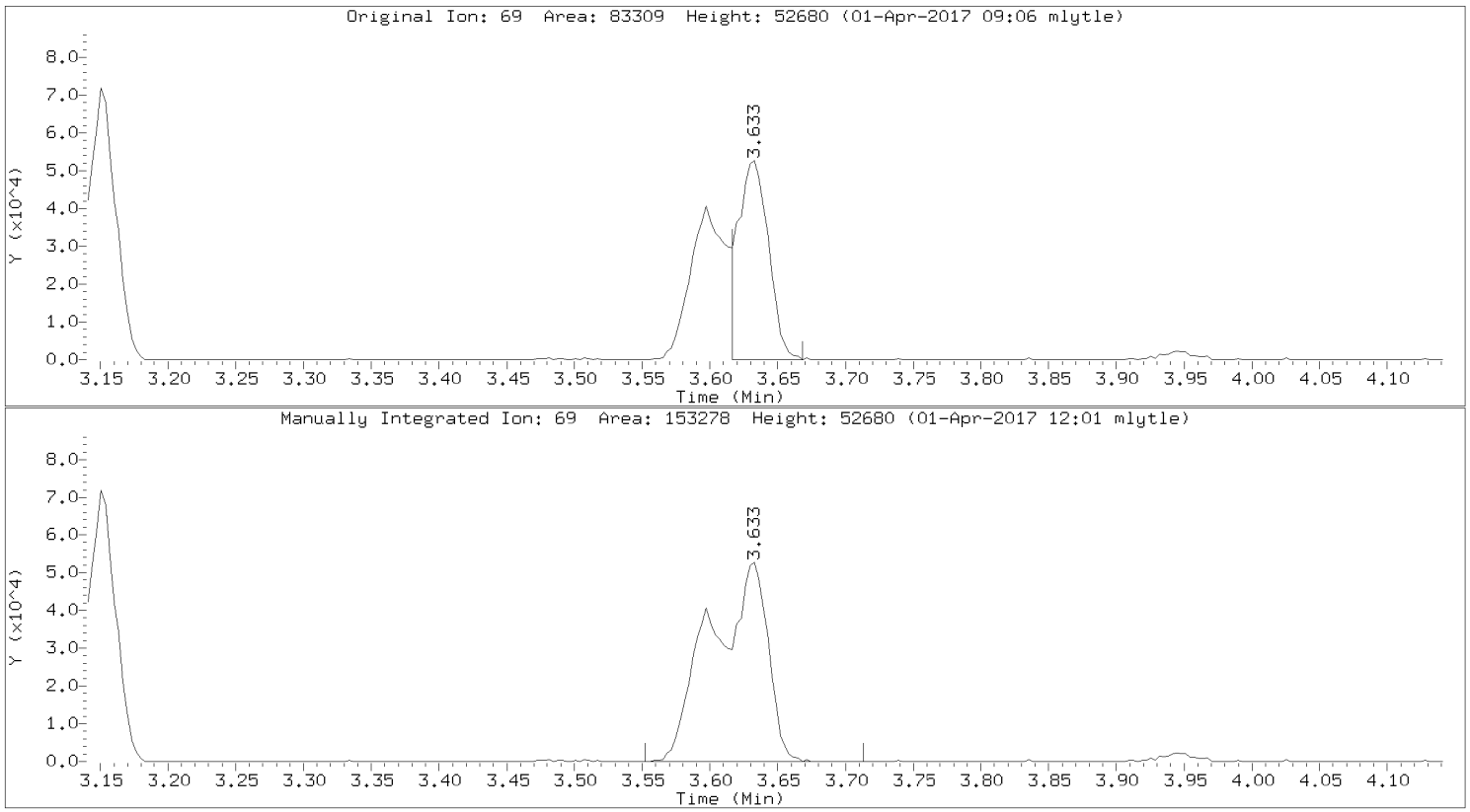








Data File: \\192.168.10.12\chem\10airB.i\040117.b/09102.D
Injection Date: 01-APR-2017 07:31
Instrument: 10airB.i
Lab Sample ID: CCV



Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 02-APR-2017 08:56
Lab File ID: 09202.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	7.82152	0.15807	0.010	-21.78477	30.00000	Line		
	2 1,1-Difluoroethane	0.15603	0.18231	0.18231	0.010	16.84260	30.00000	Aver		
	3 Chlorodifluoromethane	0.07016	0.07818	0.07818	0.010	11.41879	30.00000	Aver		
	4 Propylene	0.19841	0.22572	0.22572	0.010	13.76710	30.00000	Aver		
	5 Dichlorodifluoromethane	0.73759	0.78813	0.78813	0.010	6.85122	30.00000	Aver	(H)	
	6 Chloromethane	0.32279	0.37667	0.37667	0.010	16.69305	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.64016	0.74741	0.74741	0.010	16.75468	30.00000	Aver		
	8 Vinyl chloride	0.25387	0.29248	0.29248	0.010	15.21006	30.00000	Aver		
	9 1,3-Butadiene	0.20298	0.23378	0.23378	0.010	15.17485	30.00000	Aver		
	10 Bromomethane	0.19460	0.23060	0.23060	0.010	18.50289	30.00000	Aver		
	11 Chloroethane	0.10802	0.12813	0.12813	0.010	18.62418	30.00000	Aver		
	12 Ethanol	0.09258	0.11069	0.11069	0.005	19.56023	30.00000	Aver		
	13 Vinyl Bromide	0.18751	0.22987	0.22987	0.010	22.58663	30.00000	Aver		
	14 Isopentane	0.26690	0.29858	0.29858	0.010	11.86896	30.00000	Aver		
	15 Freon 123	0.44208	0.51972	0.51972	0.010	17.56084	30.00000	Aver	(M)	
	16 Trichlorofluoromethane	0.49968	0.59477	0.59477	0.010	19.03104	30.00000	Aver		
	17 Acrolein	0.08522	0.10677	0.10677	0.010	25.28941	30.00000	Aver		
	18 Acetone	0.35696	0.41094	0.41094	0.010	15.12168	30.00000	Aver		
	19 Isopropyl Alcohol	0.40433	0.46754	0.46754	0.010	15.63220	30.00000	Aver		
	20 1,1-Dichloroethene	0.35814	0.42640	0.42640	0.010	19.06122	30.00000	Aver		
	21 Acrylonitrile	0.19077	0.22191	0.22191	0.010	16.32185	30.00000	Aver		
	22 Freon 113	0.41196	0.45170	0.45170	0.010	9.64703	30.00000	Aver		
	23 Methyl Acetate	0.59819	0.66220	0.66220	0.010	10.70066	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.49137	0.53211	0.53211	0.010	8.29183	30.00000	Aver		
	25 Methylene chloride	0.28536	0.31374	0.31374	0.010	9.94447	30.00000	Aver		
	26 Allyl Chloride	0.06773	0.08985	0.08985	0.010	32.65560	30.00000	Aver		<-
	27 Carbon Disulfide	0.43959	0.52255	0.52255	0.010	18.87247	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.19651	0.21850	0.21850	0.010	11.19111	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.51119	0.56830	0.56830	0.010	11.17079	30.00000	Aver		
	30 Vinyl Acetate	0.63361	0.75519	0.75519	0.010	19.18838	30.00000	Aver		
	31 1,1-Dichloroethane	0.38416	0.44981	0.44981	0.010	17.08937	30.00000	Aver		
$	32 Hexane-d14(S)	0.37726	0.37204	0.37204	0.010	-1.38303	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.10096	0.10887	0.10887	0.010	7.82871	30.00000	Aver		
	34 n-Hexane	0.38395	0.42078	0.42078	0.010	9.59165	30.00000	Aver	(M)	
	35 Di-isopropyl Ether	0.80676	0.91351	0.91351	0.010	13.23145	30.00000	Aver		
	36 Ethyl Acetate	0.53627	0.59165	0.59165	0.010	10.32738	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.21667	0.24413	0.24413	0.010	12.67185	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.75635	0.93563	0.93563	0.010	23.70296	30.00000	Aver		
	39 Chloroform	0.40530	0.53184	0.53184	0.010	31.22182	30.00000	Aver		<-
	40 Tetrahydrofuran	0.31276	0.35966	0.35966	0.010	14.99508	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.52387	0.63154	0.63154	0.010	20.55177	30.00000	Aver		
	42 1,2-Dichloroethane	0.43027	0.49087	0.49087	0.010	14.08478	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 02-APR-2017 08:56
Lab File ID: 09202.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.75411	0.86845	0.86845	0.010	15.16192	30.00000	Aver		
	44 Carbon tetrachloride	0.52566	0.65624	0.65624	0.010	24.84032	30.00000	Aver		
	45 Cyclohexane	0.43434	0.50215	0.50215	0.010	15.61152	30.00000	Aver		
	46 Tert Amyl Methyl Ether	0.81416	0.81337	0.81337	0.010	-0.09663	30.00000	Aver		
	48 2,2,4-Trimethylpentane	1.32797	1.55525	1.55525	0.010	17.11464	30.00000	Aver		
	49 Heptane	0.51802	0.58951	0.58951	0.010	13.79967	30.00000	Aver		
	50 1,2-Dichloropropane	0.30863	0.35033	0.35033	0.010	13.51220	30.00000	Aver		
	51 Trichloroethene	0.40560	0.43997	0.43997	0.010	8.47441	30.00000	Aver		
	52 Methyl methacrylate	0.27259	0.31159	0.31159	0.010	14.30855	30.00000	Aver		
	53 1,4-Dioxane	0.18592	0.21813	0.21813	0.010	17.32933	30.00000	Aver		
	54 Bromodichloromethane	0.53129	0.65143	0.65143	0.010	22.61285	30.00000	Aver		
	55 Methylcyclohexane	0.21540	0.25312	0.25312	0.010	17.51398	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.70682	0.81309	0.81309	0.010	15.03478	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.41679	0.50767	0.50767	0.010	21.80525	30.00000	Aver		
	58 trans-1,3-Dichloropropene	0.36525	0.47911	0.47911	0.010	31.17031	30.00000	Aver		<-
$	59 Toluene-d8 (S)	0.83782	0.86158	0.86158	0.010	2.83542	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.32854	0.37188	0.37188	0.010	13.19131	30.00000	Aver		
	61 Toluene	0.96913	1.08431	1.08431	0.010	11.88479	30.00000	Aver		
	62 Methyl Butyl Ketone	1.00495	1.17199	1.17199	0.010	16.62199	30.00000	Aver		
	63 n-Octane	1.13917	1.25626	1.25626	0.010	10.27833	30.00000	Aver		
	64 Dibromochloromethane	0.96719	1.13740	1.13740	0.010	17.59822	30.00000	Aver		
	65 1,2-Dibromoethane	0.88855	0.98200	0.98200	0.010	10.51704	30.00000	Aver		
	66 Tetrachloroethene	0.88546	0.87602	0.87602	0.010	-1.06534	30.00000	Aver		
	68 Chlorobenzene	1.37212	1.42326	1.42326	0.010	3.72774	30.00000	Aver		
	69 Ethyl Benzene	2.12376	2.28522	2.28522	0.010	7.60236	30.00000	Aver		
	70 m&p-Xylene	1.60469	1.71414	1.71414	0.010	6.82071	30.00000	Aver		
	71 n-Nonane	1.04383	1.17727	1.17727	0.010	12.78356	30.00000	Aver		
	72 Bromoform	0.72919	0.92866	0.92866	0.010	27.35487	30.00000	Aver		
	73 Styrene	1.20677	1.34359	1.34359	0.010	11.33792	30.00000	Aver		
	74 o-Xylene	1.67239	1.76557	1.76557	0.010	5.57171	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.94443	1.04175	1.04175	0.010	10.30425	30.00000	Aver		
	76 Isopropylbenzene	2.33960	2.44328	2.44328	0.010	4.43176	30.00000	Aver		
	77 N-Propylbenzene	2.41285	2.80914	2.80914	0.010	16.42405	30.00000	Aver		
	78 4-Ethyltoluene	2.03882	2.40800	2.40800	0.010	18.10743	30.00000	Aver	(M)	
	79 1,3,5-Trimethylbenzene	1.81770	2.00495	2.00495	0.010	10.30160	30.00000	Aver		
	80 n-Decane	0.63385	0.83960	0.83960	0.010	32.46052	30.00000	Aver		<-
	81 Tert-Butyl Benzene	1.90446	2.07080	2.07080	0.010	8.73407	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.63637	1.87138	1.87138	0.010	14.36143	30.00000	Aver		
	83 1,3-Dichlorobenzene	0.96807	1.18254	1.18254	0.010	22.15404	30.00000	Aver		
	84 Sec- Butylbenzene	2.36712	2.65019	2.65019	0.010	11.95852	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.45185	0.54094	0.54094	0.010	19.71616	30.00000	Aver		
	86 Benzyl Chloride	10.00000	11.20030	1.17976	0.010	12.00300	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 02-APR-2017 08:56
Lab File ID: 09202.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.93597	1.16420	1.16420	0.010	24.38408	30.00000	Aver		
88 p-Isopropyltoluene	1.99394	2.28914	2.28914	0.010	14.80463	30.00000	Aver		
89 1,2,3-Trimethylbenzene	1.62903	1.82029	1.82029	0.010	11.74031	30.00000	Aver		
90 1,2-Dichlorobenzene	0.90579	1.10255	1.10255	0.010	21.72233	30.00000	Aver		
91 N-Butylbenzene	1.41861	1.85250	1.85250	0.010	30.58582	30.00000	Aver		<-
92 1,2-Dibromo-3-Chloropropane	10.00000	10.61429	0.38720	0.010	6.14285	30.00000	Line		
93 1,2,4-Trichlorobenzene	10.00000	10.25767	0.31317	0.010	2.57667	30.00000	Quad		
94 Naphthalene	10.00000	9.74863	0.86459	0.010	-2.51374	30.00000	Line		
95 Hexachlorobutadiene	10.00000	11.60389	0.40474	0.010	16.03894	30.00000	Line		

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 14.84994
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Lab Smp Id: CCV
Inj Date : 02-APR-2017 08:56
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m
Meth Date : 02-Apr-2017 08:15 mlytle Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.954	2.954	(0.526)	264862	10.0000	7.82
2	1,1-Difluoroethane	65	3.028	3.028	(0.539)	305470	10.0000	11.7
3	Chlorodifluoromethane	67	3.034	3.034	(0.541)	130989	10.0000	11.1
4	Propylene	41	3.038	3.038	(0.541)	378218	10.0000	11.4
5	Dichlorodifluoromethane	85	3.070	3.070	(0.547)	1320570	10.0000	10.7(H)
6	Chloromethane	50	3.166	3.166	(0.564)	631138	10.0000	11.7
7	Dichlorotetrafluoroethane	85	3.176	3.176	(0.566)	1252351	10.0000	11.7
8	Vinyl chloride	62	3.243	3.243	(0.578)	490075	10.0000	11.5
9	1,3-Butadiene	54	3.288	3.288	(0.586)	391721	10.0000	11.5
10	Bromomethane	94	3.423	3.423	(0.610)	386392	10.0000	11.9
11	Chloroethane	64	3.472	3.472	(0.619)	214699	10.0000	11.9
12	Ethanol	45	3.549	3.549	(0.632)	927339	50.0000	59.8
13	Vinyl Bromide	106	3.587	3.587	(0.639)	385162	10.0000	12.3
14	Isopentane	43	3.607	3.607	(0.643)	500298	10.0000	11.2
15	Freon 123	83	3.639	3.639	(0.648)	870829	10.0000	11.8(M)
16	Trichlorofluoromethane	101	3.681	3.681	(0.656)	996584	10.0000	11.9
17	Acrolein	56	3.690	3.690	(0.657)	447235	25.0000	31.3
18	Acetone	43	3.726	3.726	(0.664)	3442823	50.0000	57.6
19	Isopropyl Alcohol	45	3.771	3.771	(0.672)	3916968	50.0000	57.8
20	1,1-Dichloroethene	61	3.919	3.919	(0.698)	714470	10.0000	11.9
21	Acrylonitrile	53	3.931	3.931	(0.700)	929581	25.0000	29.1
22	Freon 113	101	3.957	3.957	(0.705)	756861	10.0000	11.0
23	Methyl Acetate	43	3.964	3.964	(0.706)	1109573	10.0000	11.1

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.960	3.960	(0.706)	2228985	25.0000	27.1
	25 Methylene chloride	49	4.012	4.012	(0.715)	2628496	50.0000	55.0
	26 Allyl Chloride	76	4.025	4.025	(0.717)	376377	25.0000	33.2
	27 Carbon Disulfide	76	4.134	4.134	(0.737)	875581	10.0000	11.9
	28 trans-1,2-dichloroethene	96	4.282	4.282	(0.763)	366118	10.0000	11.1
	29 Methyl Tert Butyl Ether	73	4.308	4.308	(0.767)	2380570	25.0000	27.8
	30 Vinyl Acetate	43	4.394	4.394	(0.783)	1265373	10.0000	11.9
	31 1,1-Dichloroethane	63	4.417	4.417	(0.787)	753684	10.0000	11.7
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	623380	10.0000	9.86
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	182413	10.0000	10.8
	34 n-Hexane	57	4.587	4.587	(0.817)	705054	10.0000	11.0(M)
	35 Di-isopropyl Ether	45	4.607	4.607	(0.821)	1530651	10.0000	11.3
	36 Ethyl Acetate	43	4.719	4.719	(0.841)	991355	10.0000	11.0
	37 cis-1,2-Dichloroethene	96	4.729	4.729	(0.842)	409051	10.0000	11.3
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.861)	3919293	25.0000	30.9
	39 Chloroform	83	4.845	4.845	(0.863)	891144	10.0000	13.1
	40 Tetrahydrofuran	42	4.996	4.996	(0.890)	602631	10.0000	11.5
	41 1,1,1-Trichloroethane	97	5.234	5.234	(0.932)	1058187	10.0000	12.1
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	822488	10.0000	11.4
	43 Benzene	78	5.471	5.471	(0.975)	1455161	10.0000	11.5
	44 Carbon tetrachloride	117	5.488	5.488	(0.978)	1099585	10.0000	12.5
	45 Cyclohexane	56	5.491	5.491	(0.978)	841394	10.0000	11.6
	46 Tert Amyl Methyl Ether	73	5.607	5.607	(0.999)	1362870	10.0000	9.99
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1675579	10.0000	
	48 2,2,4-Trimethylpentane	57	5.774	5.774	(1.029)	6514862	25.0000	29.3
	49 Heptane	43	5.893	5.893	(1.050)	987769	10.0000	11.4
	50 1,2-Dichloropropane	63	5.970	5.970	(1.064)	587011	10.0000	11.4
	51 Trichloroethene	130	5.989	5.989	(1.067)	737210	10.0000	10.8
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	522100	10.0000	11.4
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	365502	10.0000	11.7
	54 Bromodichloromethane	83	6.086	6.086	(1.084)	1091518	10.0000	12.3
	55 Methylcyclohexane	98	6.436	6.436	(1.147)	424123	10.0000	11.8
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	3405973	25.0000	28.8
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	850641	10.0000	12.2
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	802780	10.0000	13.1
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1443637	10.0000	10.3
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	623115	10.0000	11.3
	61 Toluene	91	7.153	7.153	(1.274)	1816852	10.0000	11.2
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	3156868	25.0000	29.2
	63 n-Octane	43	7.581	7.581	(0.877)	1353543	10.0000	11.0
	64 Dibromochloromethane	129	7.680	7.680	(0.888)	1225481	10.0000	11.8
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	1058043	10.0000	11.1
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	943862	10.0000	9.89
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1077441	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	1533484	10.0000	10.4
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	2462190	10.0000	10.8
	70 m&p-Xylene	91	9.082	9.082	(1.051)	3693766	20.0000	21.4
	71 n-Nonane	43	9.468	9.468	(1.095)	1268437	10.0000	11.3
	72 Bromoform	173	9.481	9.481	(1.097)	1000575	10.0000	12.7
	73 Styrene	104	9.507	9.507	(1.100)	1447641	10.0000	11.1
	74 o-Xylene	91	9.577	9.577	(1.108)	1902296	10.0000	10.6
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1122425	10.0000	11.0
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	2632494	10.0000	10.4
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	3026683	10.0000	11.6

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	2594480	10.0000	11.8(M)
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	2160217	10.0000	11.0
80	n-Decane	57	11.378	11.378	(2.027)	1406816	10.0000	13.2
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2231166	10.0000	10.9
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	2016298	10.0000	11.4
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	1274113	10.0000	12.2
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	2855426	10.0000	11.2
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	582829	10.0000	12.0
86	Benzyl Chloride	91	11.864	11.864	(1.372)	1271126	10.0000	11.2
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	1254355	10.0000	12.4
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	2466408	10.0000	11.5
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	1961251	10.0000	11.2
90	1,2-Dichlorobenzene	146	12.282	12.282	(1.421)	1187928	10.0000	12.2
91	N-Butylbenzene	91	12.462	12.462	(1.441)	1995961	10.0000	13.1
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	417182	10.0000	10.6
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.623)	337420	10.0000	10.3
94	Naphthalene	128	14.156	14.156	(1.637)	931549	10.0000	9.75
95	Hexachlorobutadiene	225	14.394	14.394	(1.665)	436088	10.0000	11.6

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09202.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m
Misc Info:

Calibration Date: 01-APR-2017
Calibration Time: 07:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

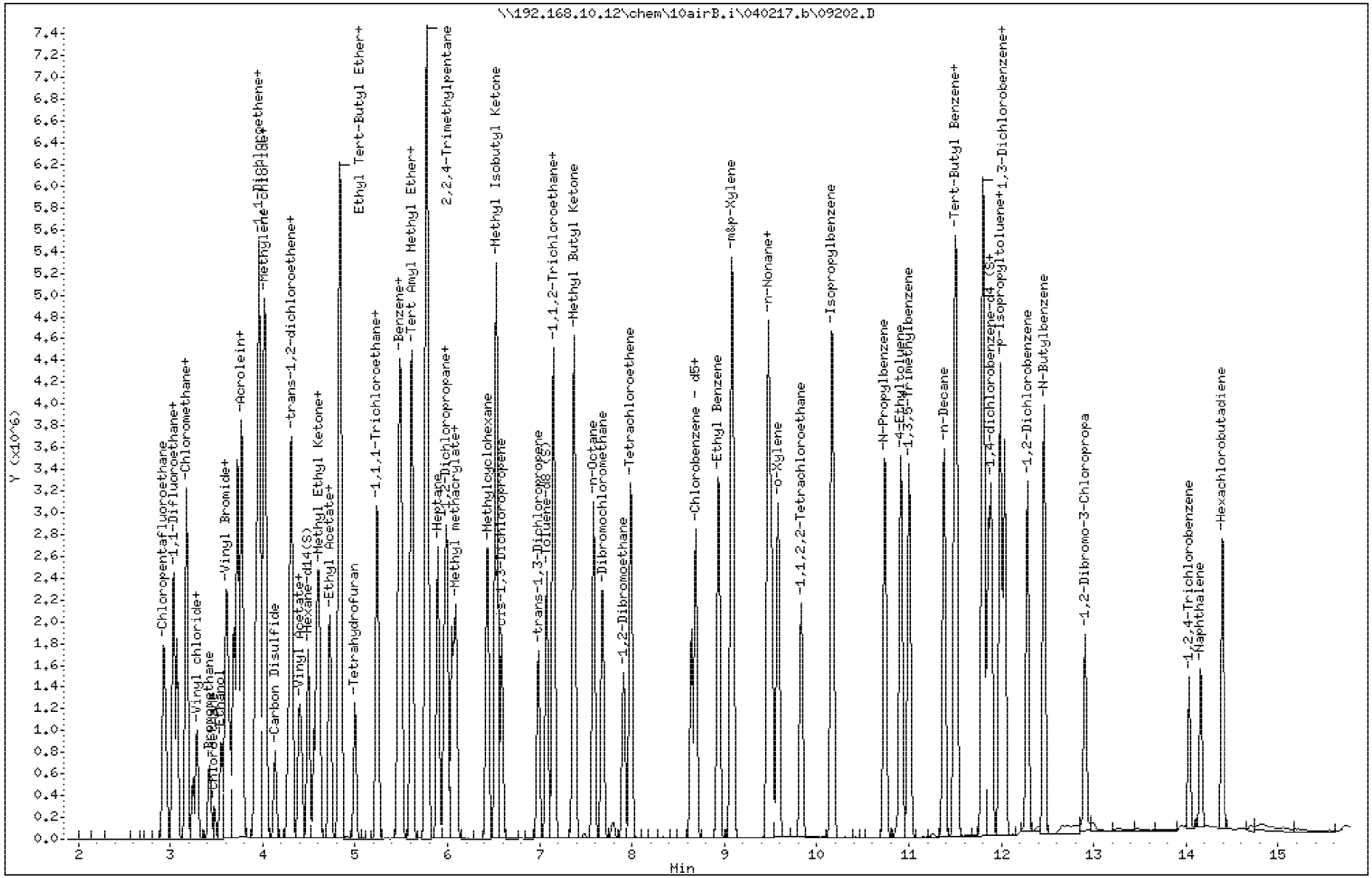
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1675579	-13.49
67 Chlorobenzene - d	1173864	704318	1643410	1077441	-8.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

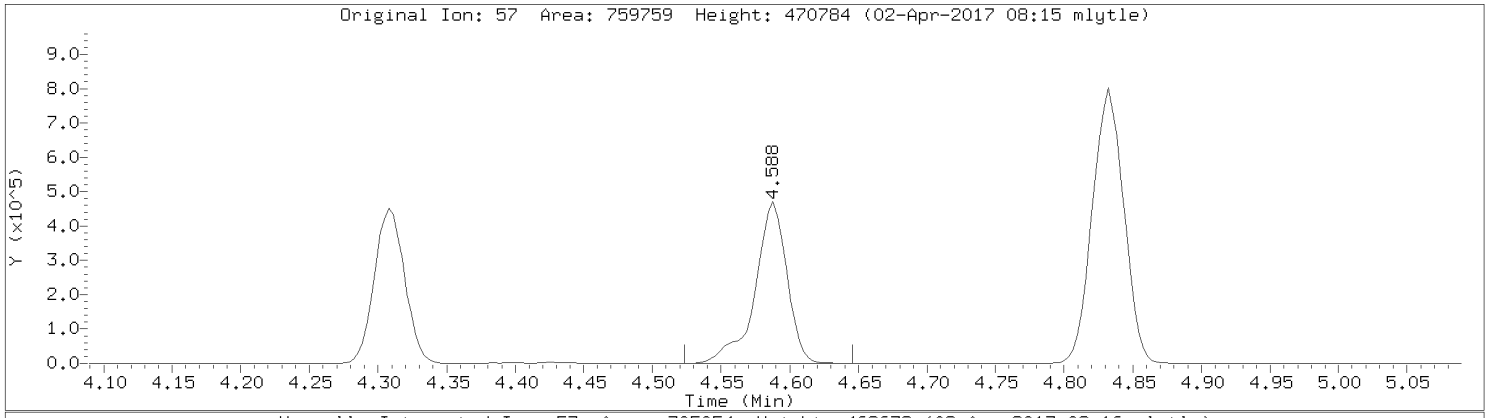
Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Date : 02-APR-2017 08:56
Client ID:
Sample Info:

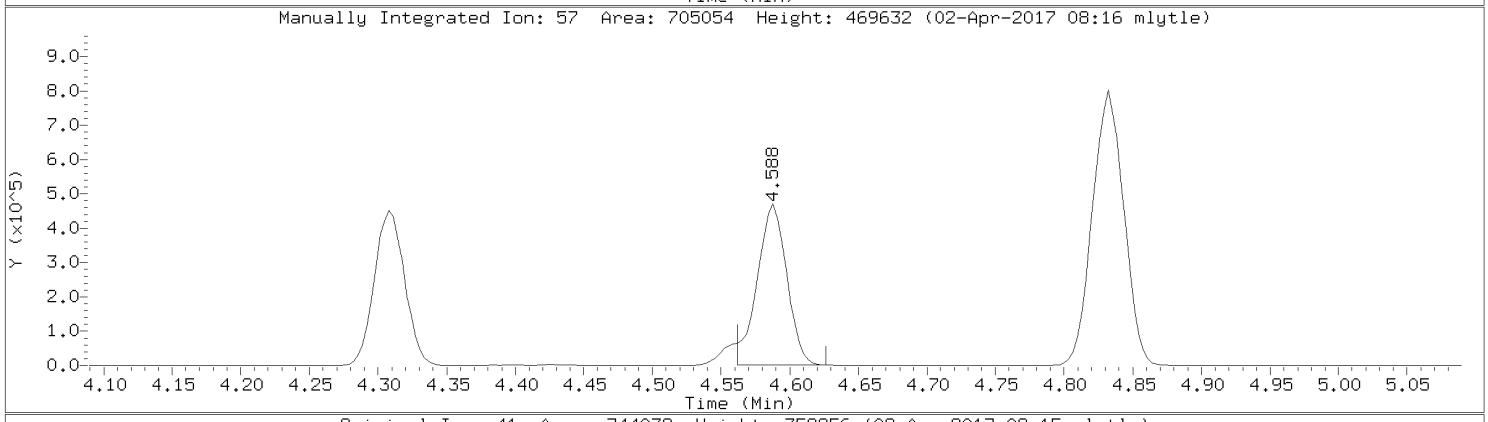
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

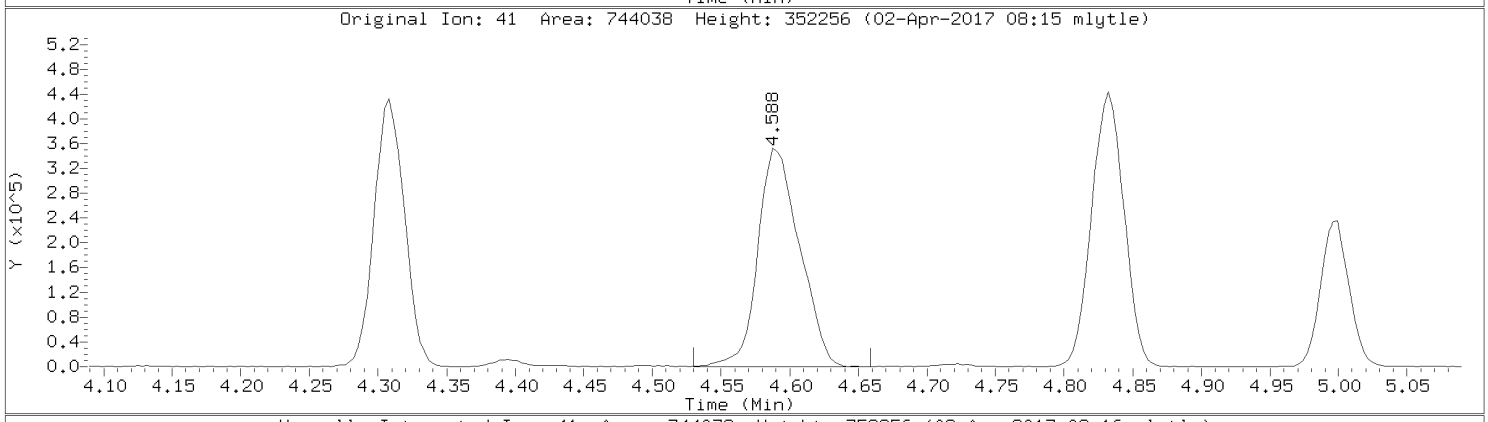


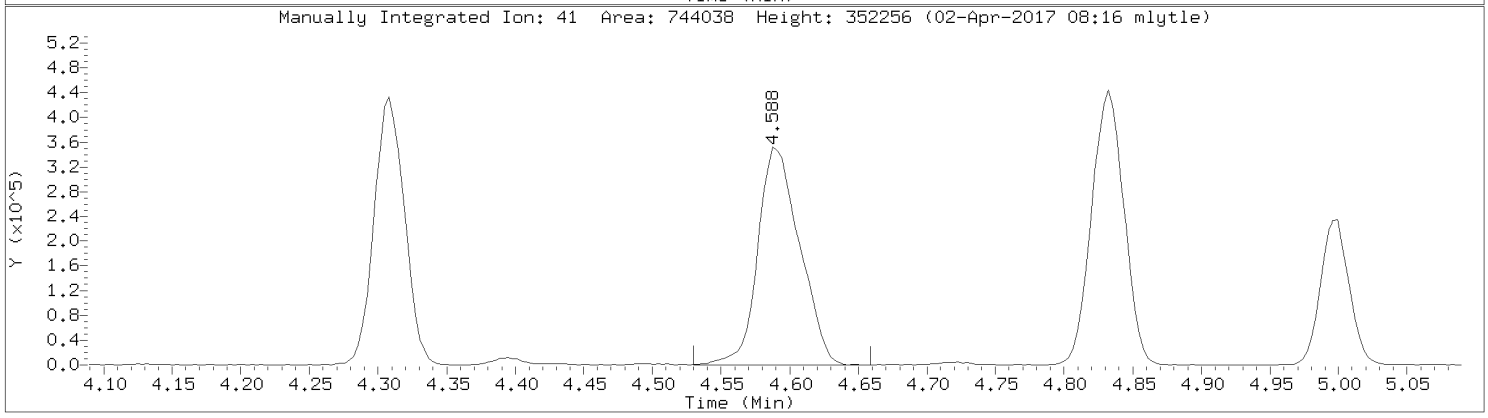
Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

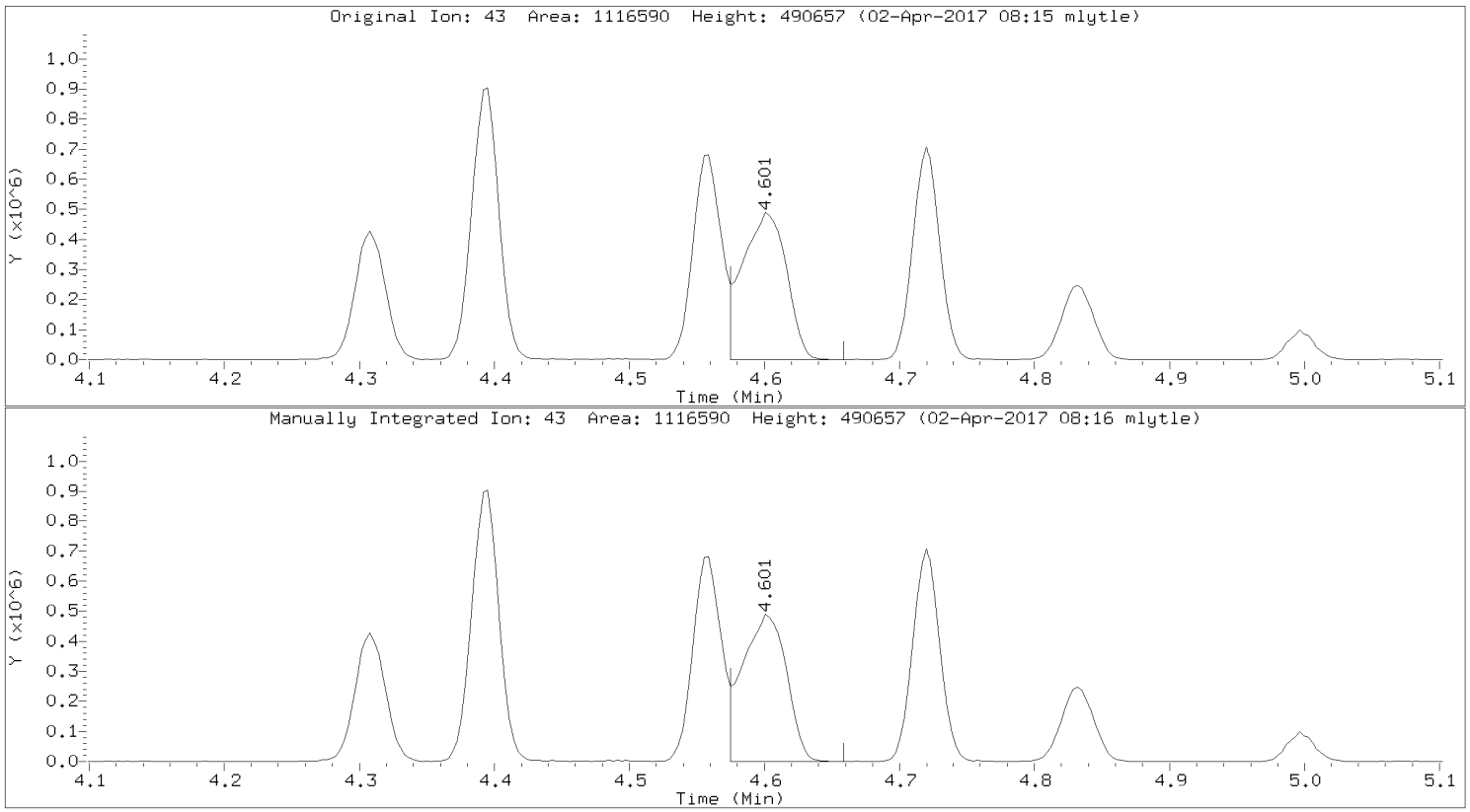






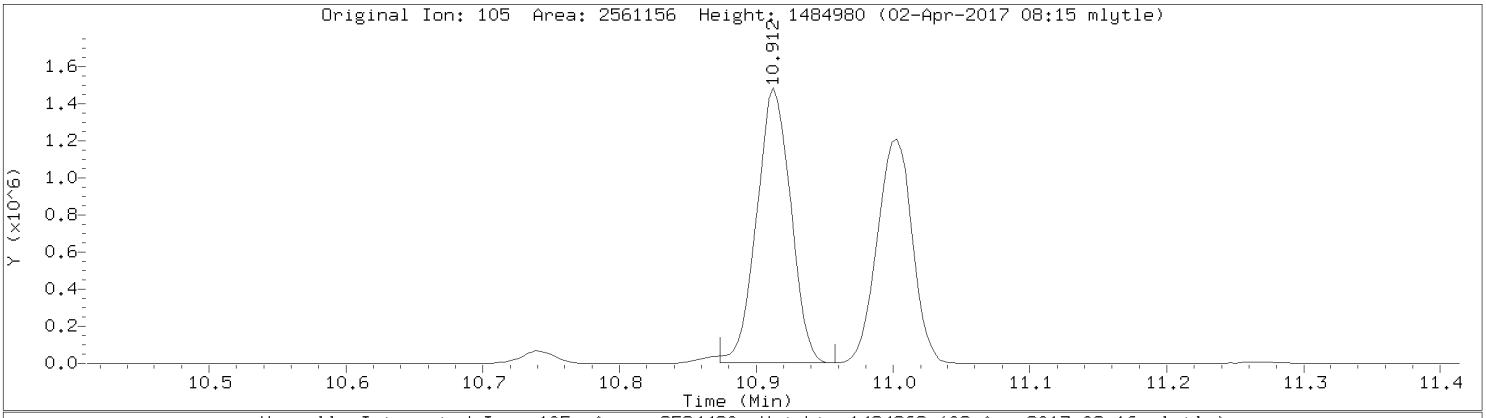


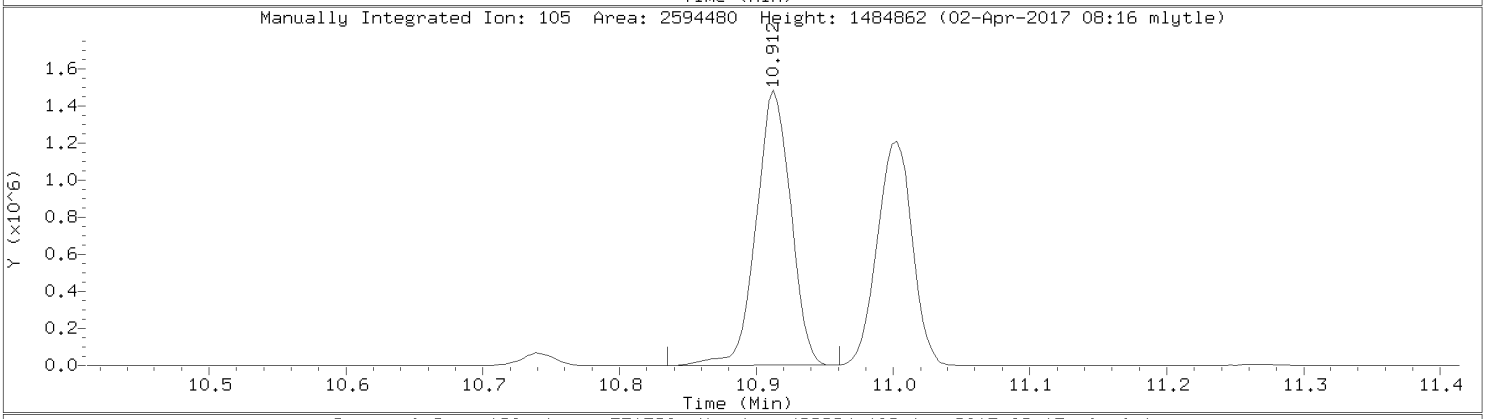
Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV

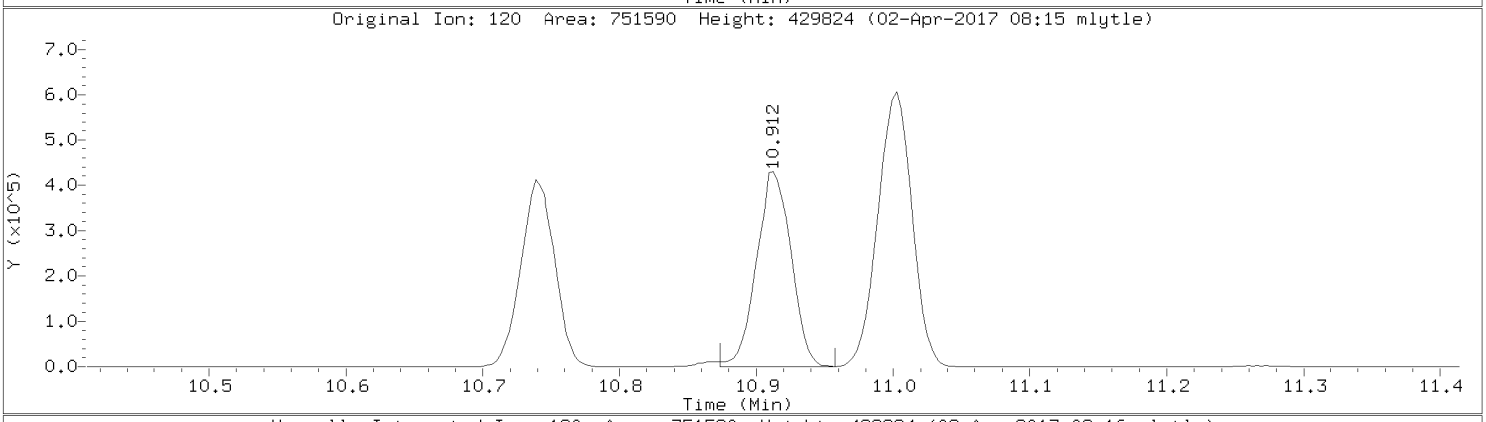


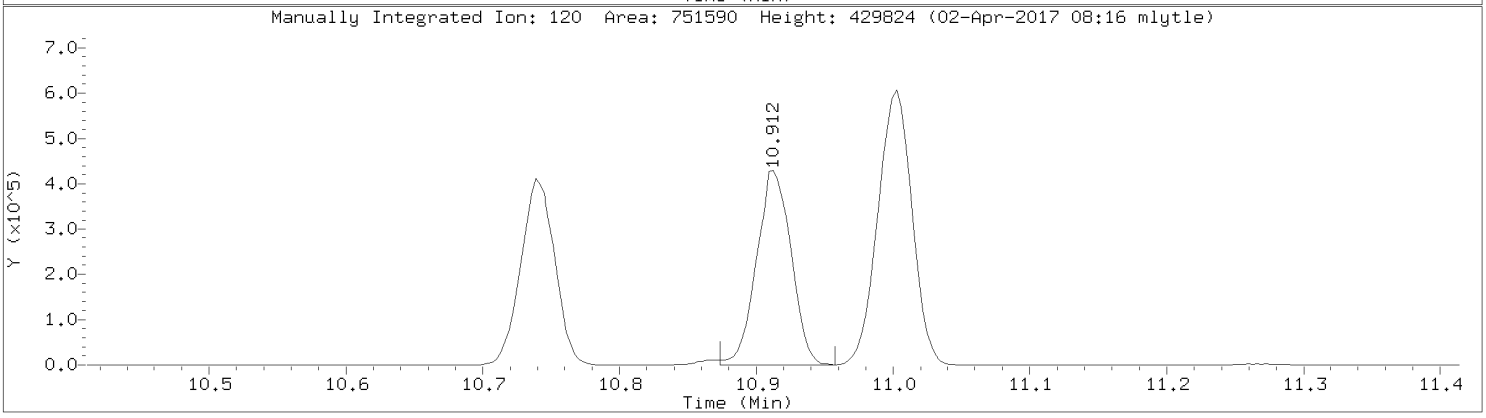
Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

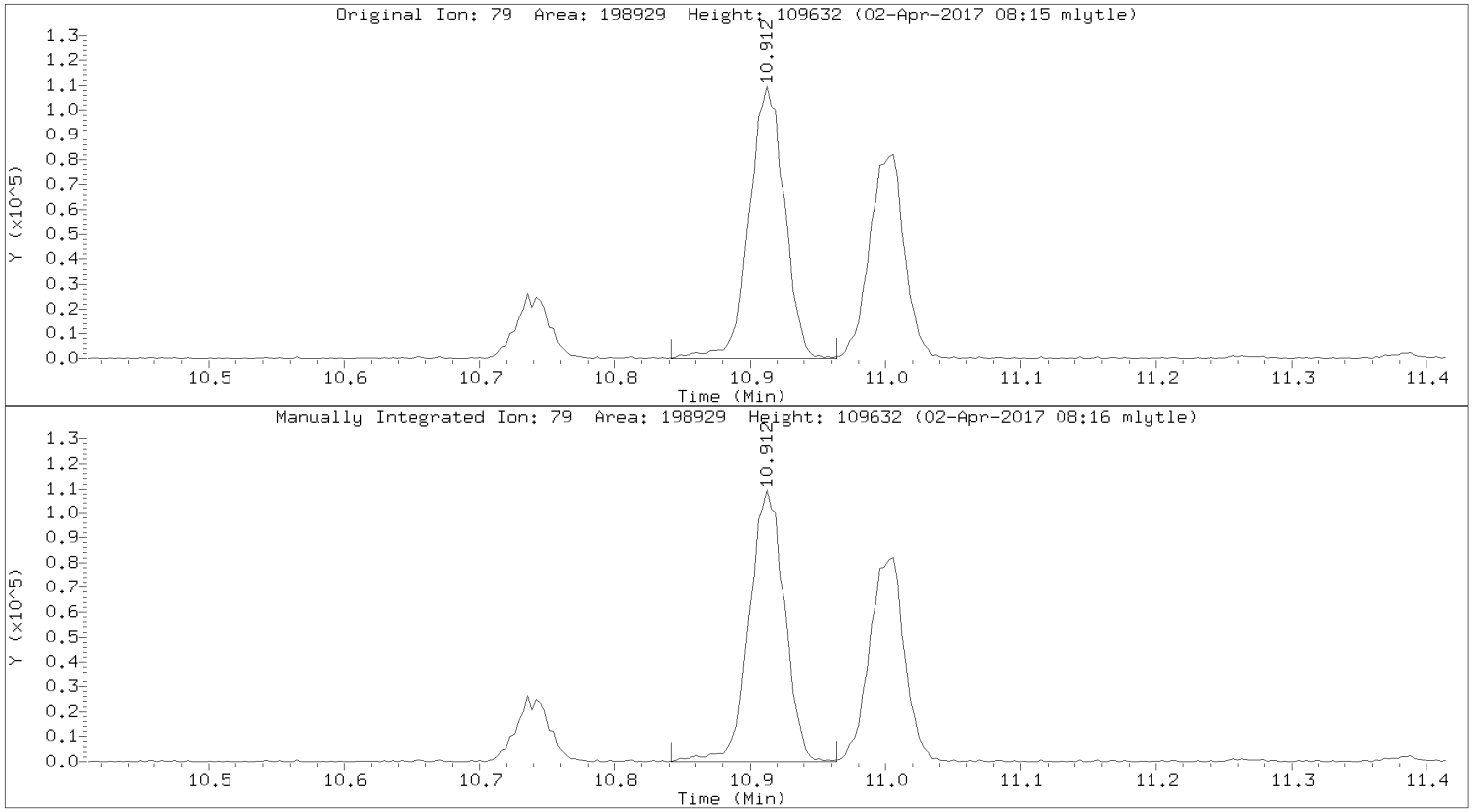






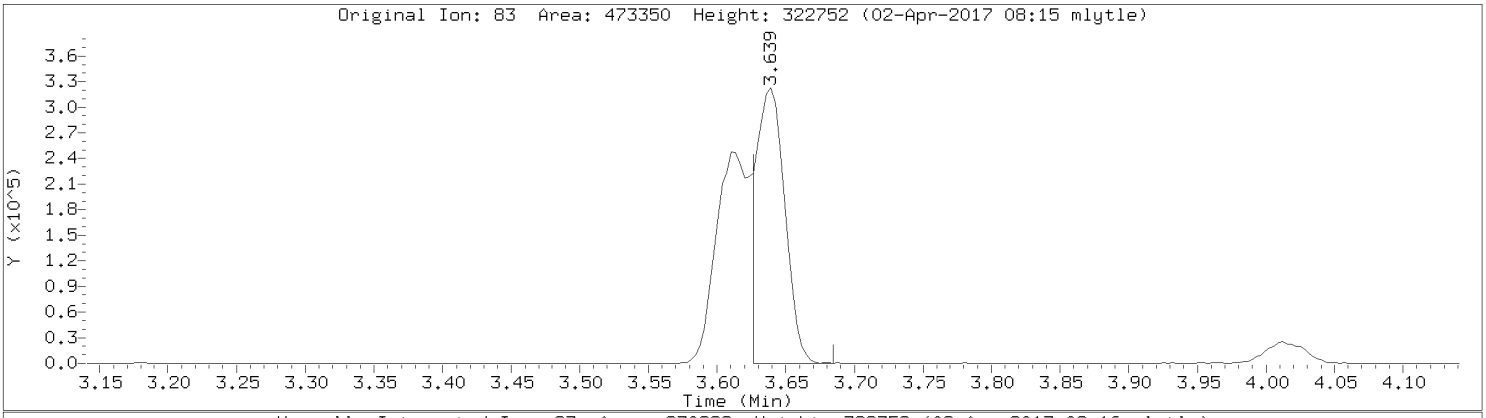


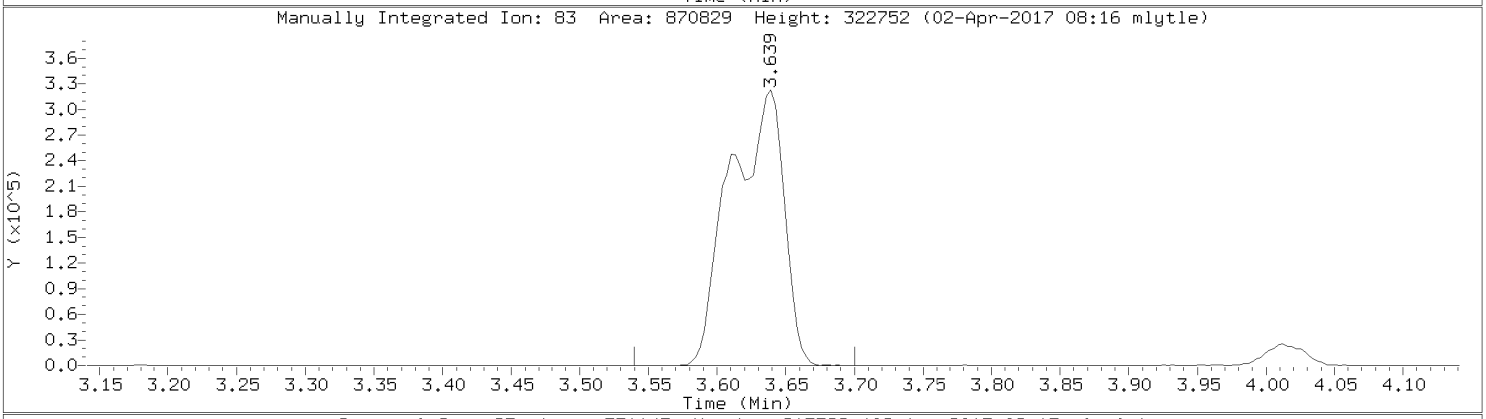
Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV

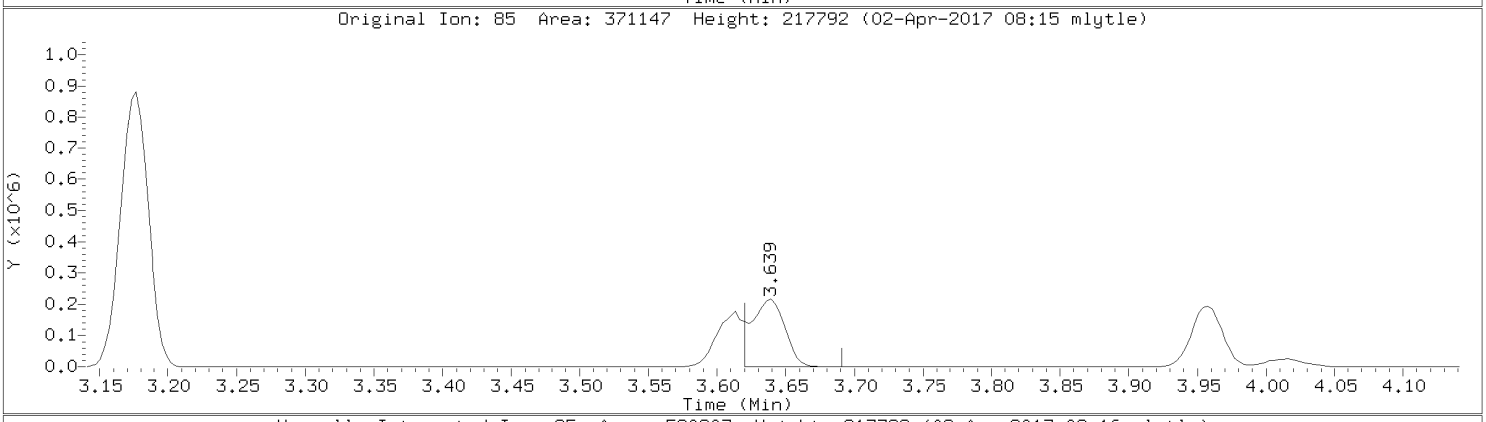


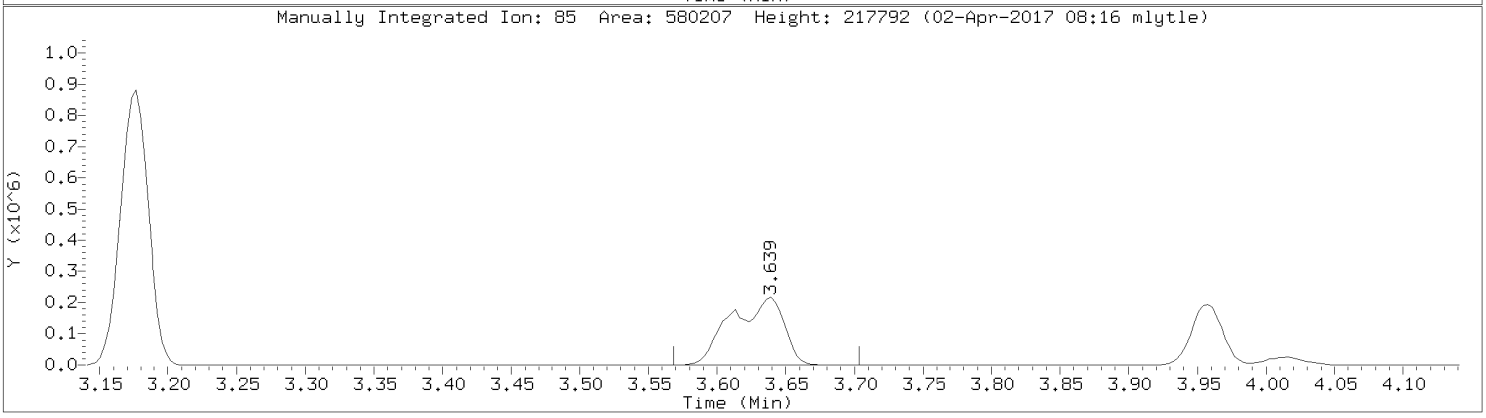
Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: Freon 123
CAS Number: 306-83-2

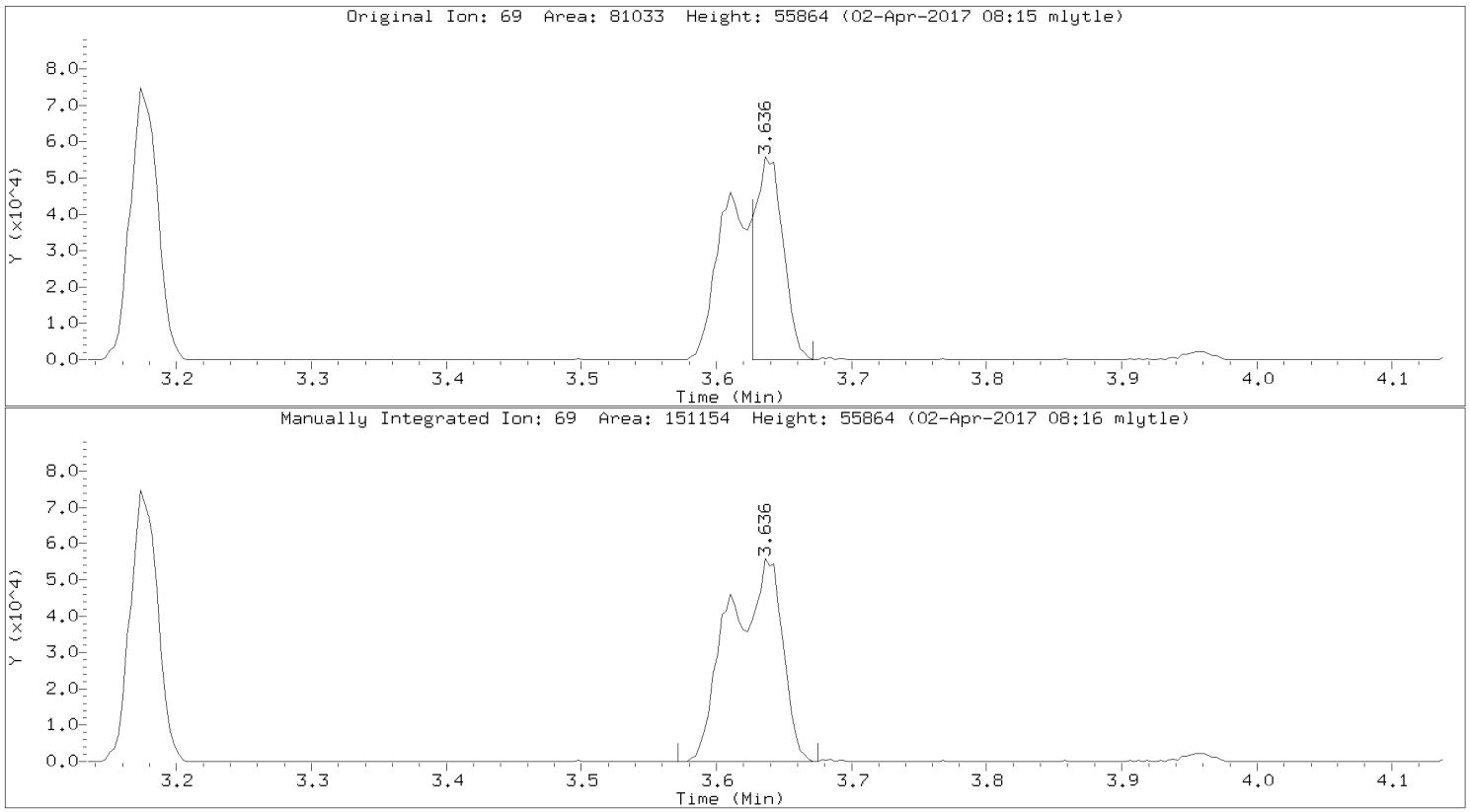








Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV



Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-APR-2017 10:12
Lab File ID: 09302.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040317.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	5.78658	0.11743	0.010	-42.13421	30.00000	Line		<-
	2 1,1-Difluoroethane	0.15603	0.18357	0.18357	0.010	17.64938	30.00000	Aver		
	3 Chlorodifluoromethane	0.07016	0.07584	0.07584	0.010	8.09271	30.00000	Aver		
	4 Propylene	0.19841	0.22073	0.22073	0.010	11.24807	30.00000	Aver		
	5 Dichlorodifluoromethane	0.73759	0.78656	0.78656	0.010	6.63895	30.00000	Aver		
	6 Chloromethane	0.32279	0.35910	0.35910	0.010	11.25041	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.64016	0.76609	0.76609	0.010	19.67270	30.00000	Aver		
	8 Vinyl chloride	0.25387	0.30415	0.30415	0.010	19.80644	30.00000	Aver		
	9 1,3-Butadiene	0.20298	0.22858	0.22858	0.010	12.61122	30.00000	Aver		
	10 Bromomethane	0.19460	0.22648	0.22648	0.010	16.38317	30.00000	Aver		
	11 Chloroethane	0.10802	0.12402	0.12402	0.010	14.81596	30.00000	Aver		
	12 Ethanol	0.09258	0.10363	0.10363	0.005	11.93125	30.00000	Aver		
	13 Vinyl Bromide	0.18751	0.21854	0.21854	0.010	16.54651	30.00000	Aver		
	14 Isopentane	0.26690	0.27723	0.27723	0.010	3.86973	30.00000	Aver		
	15 Freon 123	0.44208	0.28451	0.28451	0.010	-35.64325	30.00000	Aver		<-
	16 Trichlorofluoromethane	0.49968	0.57753	0.57753	0.010	15.58147	30.00000	Aver		
	17 Acrolein	0.08522	0.10205	0.10205	0.010	19.75021	30.00000	Aver		
	18 Acetone	0.35696	0.38888	0.38888	0.010	8.94032	30.00000	Aver		
	19 Isopropyl Alcohol	0.40433	0.44603	0.44603	0.010	10.31272	30.00000	Aver		
	20 1,1-Dichloroethene	0.35814	0.40412	0.40412	0.010	12.84094	30.00000	Aver		
	21 Acrylonitrile	0.19077	0.20672	0.20672	0.010	8.35877	30.00000	Aver		
	22 Freon 113	0.41196	0.43645	0.43645	0.010	5.94416	30.00000	Aver		
	23 Methyl Acetate	0.59819	0.63689	0.63689	0.010	6.46833	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.49137	0.54664	0.54664	0.010	11.24921	30.00000	Aver		
	25 Methylene chloride	0.28536	0.29286	0.29286	0.010	2.62634	30.00000	Aver		
	26 Allyl Chloride	0.06773	0.09028	0.09028	0.010	33.28698	30.00000	Aver		<-
	27 Carbon Disulfide	0.43959	0.52981	0.52981	0.010	20.52219	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.19651	0.21672	0.21672	0.010	10.28348	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.51119	0.58667	0.58667	0.010	14.76490	30.00000	Aver		
	30 Vinyl Acetate	0.63361	0.71788	0.71788	0.010	13.30023	30.00000	Aver		
	31 1,1-Dichloroethane	0.38416	0.44364	0.44364	0.010	15.48335	30.00000	Aver		
$	32 Hexane-d14(S)	0.37726	0.35551	0.35551	0.010	-5.76403	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.10096	0.10741	0.10741	0.010	6.38748	30.00000	Aver		
	34 n-Hexane	0.38395	0.43130	0.43130	0.010	12.33162	30.00000	Aver	(M)	
	35 Di-isopropyl Ether	0.80676	0.86015	0.86015	0.010	6.61770	30.00000	Aver		
	36 Ethyl Acetate	0.53627	0.67923	0.67923	0.010	26.65895	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.21667	0.29756	0.29756	0.010	37.33564	30.00000	Aver		<-
	38 Ethyl Tert-Butyl Ether	0.75635	0.98693	0.98693	0.010	30.48535	30.00000	Aver		<-
	39 Chloroform	0.40530	0.55517	0.55517	0.010	36.97788	30.00000	Aver		<-
	40 Tetrahydrofuran	0.31276	0.35684	0.35684	0.010	14.09366	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.52387	0.65636	0.65636	0.010	25.29127	30.00000	Aver		
	42 1,2-Dichloroethane	0.43027	0.49287	0.49287	0.010	14.55122	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-APR-2017 10:12
Lab File ID: 09302.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040317.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.75411	0.90010	0.90010	0.010	19.35888	30.00000	Aver		
	44 Carbon tetrachloride	0.52566	0.66551	0.66551	0.010	26.60343	30.00000	Aver		
	45 Cyclohexane	0.43434	0.50008	0.50008	0.010	15.13472	30.00000	Aver		
	46 Tert Amyl Methyl Ether	0.81416	0.89280	0.89280	0.010	9.65868	30.00000	Aver		
	48 2,2,4-Trimethylpentane	1.32797	1.52016	1.52016	0.010	14.47235	30.00000	Aver		
	49 Heptane	0.51802	0.56397	0.56397	0.010	8.86957	30.00000	Aver		
	50 1,2-Dichloropropane	0.30863	0.36436	0.36436	0.010	18.05586	30.00000	Aver		
	51 Trichloroethene	0.40560	0.46431	0.46431	0.010	14.47424	30.00000	Aver		
	52 Methyl methacrylate	0.27259	0.32824	0.32824	0.010	20.41463	30.00000	Aver		
	53 1,4-Dioxane	0.18592	0.22704	0.22704	0.010	22.11742	30.00000	Aver		
	54 Bromodichloromethane	0.53129	0.67110	0.67110	0.010	26.31562	30.00000	Aver		
	55 Methylcyclohexane	0.21540	0.26391	0.26391	0.010	22.52472	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.70682	0.77896	0.77896	0.010	10.20722	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.41679	0.54832	0.54832	0.010	31.55745	30.00000	Aver		<-
	58 trans-1,3-Dichloropropene	0.36525	0.51303	0.51303	0.010	40.45703	30.00000	Aver		<-
$	59 Toluene-d8 (S)	0.83782	0.86668	0.86668	0.010	3.44497	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.32854	0.38257	0.38257	0.010	16.44572	30.00000	Aver		
	61 Toluene	0.96913	1.12045	1.12045	0.010	15.61331	30.00000	Aver		
	62 Methyl Butyl Ketone	1.00495	1.12913	1.12913	0.010	12.35687	30.00000	Aver		
	63 n-Octane	1.13917	1.20157	1.20157	0.010	5.47768	30.00000	Aver		
	64 Dibromochloromethane	0.96719	1.15663	1.15663	0.010	19.58611	30.00000	Aver		
	65 1,2-Dibromoethane	0.88855	0.98566	0.98566	0.010	10.92992	30.00000	Aver		
	66 Tetrachloroethene	0.88546	0.89574	0.89574	0.010	1.16127	30.00000	Aver		
	68 Chlorobenzene	1.37212	1.48383	1.48383	0.010	8.14209	30.00000	Aver		
	69 Ethyl Benzene	2.12376	2.29971	2.29971	0.010	8.28443	30.00000	Aver		
	70 m&p-Xylene	1.60469	1.74196	1.74196	0.010	8.55432	30.00000	Aver		
	71 n-Nonane	1.04383	1.10414	1.10414	0.010	5.77780	30.00000	Aver		
	72 Bromoform	0.72919	0.96356	0.96356	0.010	32.14077	30.00000	Aver		<-
	73 Styrene	1.20677	1.36746	1.36746	0.010	13.31544	30.00000	Aver		
	74 o-Xylene	1.67239	1.80536	1.80536	0.010	7.95100	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.94443	1.07341	1.07341	0.010	13.65647	30.00000	Aver		
	76 Isopropylbenzene	2.33960	2.44171	2.44171	0.010	4.36469	30.00000	Aver		
	77 N-Propylbenzene	2.41285	2.84213	2.84213	0.010	17.79119	30.00000	Aver		
	78 4-Ethyltoluene	2.03882	2.43983	2.43983	0.010	19.66874	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.81770	2.04391	2.04391	0.010	12.44510	30.00000	Aver		
	80 n-Decane	0.63385	0.83885	0.83885	0.010	32.34199	30.00000	Aver		<-
	81 Tert-Butyl Benzene	1.90446	2.06370	2.06370	0.010	8.36112	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.63637	1.87738	1.87738	0.010	14.72835	30.00000	Aver		
	83 1,3-Dichlorobenzene	0.96807	1.19716	1.19716	0.010	23.66483	30.00000	Aver		
	84 Sec- Butylbenzene	2.36712	2.64121	2.64121	0.010	11.57901	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.45185	0.53334	0.53334	0.010	18.03435	30.00000	Aver		
	86 Benzyl Chloride	10.00000	12.72049	1.34342	0.010	27.20494	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-APR-2017 10:12
Lab File ID: 09302.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040317.b\TO15_090-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.93597	1.20426	1.20426	0.010	28.66394	30.00000	Aver		
88 p-Isopropyltoluene	1.99394	2.31095	2.31095	0.010	15.89879	30.00000	Aver		
89 1,2,3-Trimethylbenzene	1.62903	1.86386	1.86386	0.010	14.41530	30.00000	Aver		
90 1,2-Dichlorobenzene	0.90579	1.13882	1.13882	0.010	25.72711	30.00000	Aver		
91 N-Butylbenzene	1.41861	1.87395	1.87395	0.010	32.09782	30.00000	Aver		<-
92 1,2-Dibromo-3-Chloropropane	10.00000	11.47979	0.41947	0.010	14.79793	30.00000	Line		
93 1,2,4-Trichlorobenzene	10.00000	11.39462	0.35224	0.010	13.94619	30.00000	Quad		
94 Naphthalene	10.00000	10.98556	0.97900	0.010	9.85560	30.00000	Line		
95 Hexachlorobutadiene	10.00000	12.91423	0.44991	0.010	29.14228	30.00000	Line		

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 16.47625
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Lab Smp Id: ccv
Inj Date : 03-APR-2017 10:12
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040317.b\TO15_090-17.m
Meth Date : 03-Apr-2017 09:36 nkoller Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.935	2.935	(0.523)	196912	10.0000	5.79
2	1,1-Difluoroethane	65	3.012	3.012	(0.536)	307805	10.0000	11.8
3	Chlorodifluoromethane	67	3.021	3.021	(0.538)	127172	10.0000	10.8
4	Propylene	41	3.015	3.015	(0.537)	370115	10.0000	11.1
5	Dichlorodifluoromethane	85	3.054	3.054	(0.544)	1318914	10.0000	10.7
6	Chloromethane	50	3.150	3.150	(0.561)	602143	10.0000	11.1
7	Dichlorotetrafluoroethane	85	3.163	3.163	(0.563)	1284593	10.0000	12.0
8	Vinyl chloride	62	3.234	3.234	(0.576)	510001	10.0000	12.0
9	1,3-Butadiene	54	3.275	3.275	(0.583)	383283	10.0000	11.3
10	Bromomethane	94	3.410	3.410	(0.607)	379759	10.0000	11.6
11	Chloroethane	64	3.465	3.465	(0.617)	207959	10.0000	11.5
12	Ethanol	45	3.549	3.549	(0.632)	868804	50.0000	56.0
13	Vinyl Bromide	106	3.581	3.581	(0.638)	366453	10.0000	11.7
14	Isopentane	43	3.600	3.600	(0.641)	464865	10.0000	10.4
15	Freon 123	83	3.636	3.636	(0.647)	477071	10.0000	6.44
16	Trichlorofluoromethane	101	3.677	3.677	(0.655)	968413	10.0000	11.6
17	Acrolein	56	3.690	3.690	(0.657)	427776	25.0000	29.9
18	Acetone	43	3.726	3.726	(0.663)	3260355	50.0000	54.5
19	Isopropyl Alcohol	45	3.774	3.774	(0.672)	3739517	50.0000	55.2
20	1,1-Dichloroethene	61	3.912	3.912	(0.697)	677640	10.0000	11.3
21	Acrylonitrile	53	3.931	3.931	(0.700)	866580	25.0000	27.1
22	Freon 113	101	3.951	3.951	(0.703)	731838	10.0000	10.6
23	Methyl Acetate	43	3.963	3.963	(0.706)	1067935	10.0000	10.6

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.963	3.963	(0.706)	2291538	25.0000	27.8
	25 Methylene chloride	49	4.012	4.012	(0.714)	2455339	50.0000	51.3
	26 Allyl Chloride	76	4.021	4.021	(0.716)	378446	25.0000	33.3
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	888384	10.0000	12.1
	28 trans-1,2-dichloroethene	96	4.279	4.279	(0.762)	363396	10.0000	11.0
	29 Methyl Tert Butyl Ether	73	4.308	4.308	(0.767)	2459337	25.0000	28.7
	30 Vinyl Acetate	43	4.394	4.394	(0.782)	1203744	10.0000	11.3
	31 1,1-Dichloroethane	63	4.417	4.417	(0.786)	743892	10.0000	11.5
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	596124	10.0000	9.42
	33 Methyl Ethyl Ketone	72	4.558	4.558	(0.812)	180107	10.0000	10.6
	34 n-Hexane	57	4.584	4.584	(0.816)	723212	10.0000	11.2(M)
	35 Di-isopropyl Ether	45	4.607	4.607	(0.820)	1442305	10.0000	10.7
	36 Ethyl Acetate	43	4.719	4.719	(0.840)	1138939	10.0000	12.7
	37 cis-1,2-Dichloroethene	96	4.729	4.729	(0.842)	498958	10.0000	13.7
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.860)	4137215	25.0000	32.6
	39 Chloroform	83	4.844	4.844	(0.863)	930917	10.0000	13.7
	40 Tetrahydrofuran	42	4.999	4.999	(0.890)	598346	10.0000	11.4
	41 1,1,1-Trichloroethane	97	5.237	5.237	(0.932)	1100597	10.0000	12.5
	42 1,2-Dichloroethane	62	5.243	5.243	(0.934)	826457	10.0000	11.5
	43 Benzene	78	5.471	5.471	(0.974)	1509300	10.0000	11.9
	44 Carbon tetrachloride	117	5.488	5.488	(0.977)	1115933	10.0000	12.7
	45 Cyclohexane	56	5.491	5.491	(0.978)	838539	10.0000	11.5
	46 Tert Amyl Methyl Ether	73	5.610	5.610	(0.999)	1497049	10.0000	11.0
*	47 1,4-Difluorobenzene	114	5.616	5.616	(1.000)	1676809	10.0000	
	48 2,2,4-Trimethylpentane	57	5.774	5.774	(1.028)	6372551	25.0000	28.6
	49 Heptane	43	5.896	5.896	(1.050)	945670	10.0000	10.9
	50 1,2-Dichloropropane	63	5.970	5.970	(1.063)	610956	10.0000	11.8
	51 Trichloroethene	130	5.992	5.992	(1.067)	778557	10.0000	11.4
	52 Methyl methacrylate	69	6.047	6.047	(1.077)	550393	10.0000	12.0
	53 1,4-Dioxane	88	6.070	6.070	(1.081)	380697	10.0000	12.2
	54 Bromodichloromethane	83	6.089	6.089	(1.084)	1125306	10.0000	12.6
	55 Methylcyclohexane	98	6.439	6.439	(1.147)	442532	10.0000	12.3
	56 Methyl Isobutyl Ketone	43	6.533	6.533	(1.163)	3265433	25.0000	27.6
	57 cis-1,3-Dichloropropene	75	6.594	6.594	(1.174)	919421	10.0000	13.2
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.244)	860247	10.0000	14.0
$	59 Toluene-d8 (S)	98	7.079	7.079	(1.260)	1453260	10.0000	10.3
	60 1,1,2-Trichloroethane	97	7.147	7.147	(1.272)	641501	10.0000	11.6
	61 Toluene	91	7.153	7.153	(1.274)	1878776	10.0000	11.6
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.853)	3068745	25.0000	28.1
	63 n-Octane	43	7.587	7.587	(0.878)	1306254	10.0000	10.5
	64 Dibromochloromethane	129	7.680	7.680	(0.888)	1257395	10.0000	12.0
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	1071539	10.0000	11.1
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	973777	10.0000	10.1
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1087123	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	1613111	10.0000	10.8
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	2500063	10.0000	10.8
	70 m&p-Xylene	91	9.082	9.082	(1.051)	3787444	20.0000	21.7
	71 n-Nonane	43	9.471	9.471	(1.096)	1200336	10.0000	10.6
	72 Bromoform	173	9.481	9.481	(1.097)	1047505	10.0000	13.2
	73 Styrene	104	9.510	9.510	(1.100)	1486593	10.0000	11.3
	74 o-Xylene	91	9.581	9.581	(1.108)	1962648	10.0000	10.8
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	1166929	10.0000	11.4
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	2654444	10.0000	10.4
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	3089742	10.0000	11.8

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	2652400	10.0000	12.0
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	2221986	10.0000	11.2
80	n-Decane	57	11.378	11.378	(2.026)	1406589	10.0000	13.2
81	Tert-Butyl Benzene	119	11.500	11.500	(1.330)	2243494	10.0000	10.8
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	2040944	10.0000	11.5
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	1301462	10.0000	12.4
84	Sec- Butylbenzene	105	11.809	11.809	(1.366)	2871319	10.0000	11.2
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	579805	10.0000	11.8
86	Benzyl Chloride	91	11.867	11.867	(1.373)	1460468	10.0000	12.7
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	1309175	10.0000	12.9
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	2512289	10.0000	11.6
89	1,2,3-Trimethylbenzene	105	12.037	12.037	(1.392)	2026248	10.0000	11.4
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	1238038	10.0000	12.6
91	N-Butylbenzene	91	12.462	12.462	(1.441)	2037215	10.0000	13.2
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	456015	10.0000	11.5
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.623)	382926	10.0000	11.4
94	Naphthalene	128	14.162	14.162	(1.638)	1064297	10.0000	11.0
95	Hexachlorobutadiene	225	14.410	14.410	(1.667)	489112	10.0000	12.9

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09302.D
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\040317.b\TO15_090-17.m
Misc Info:

Calibration Date: 02-APR-2017
Calibration Time: 08:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

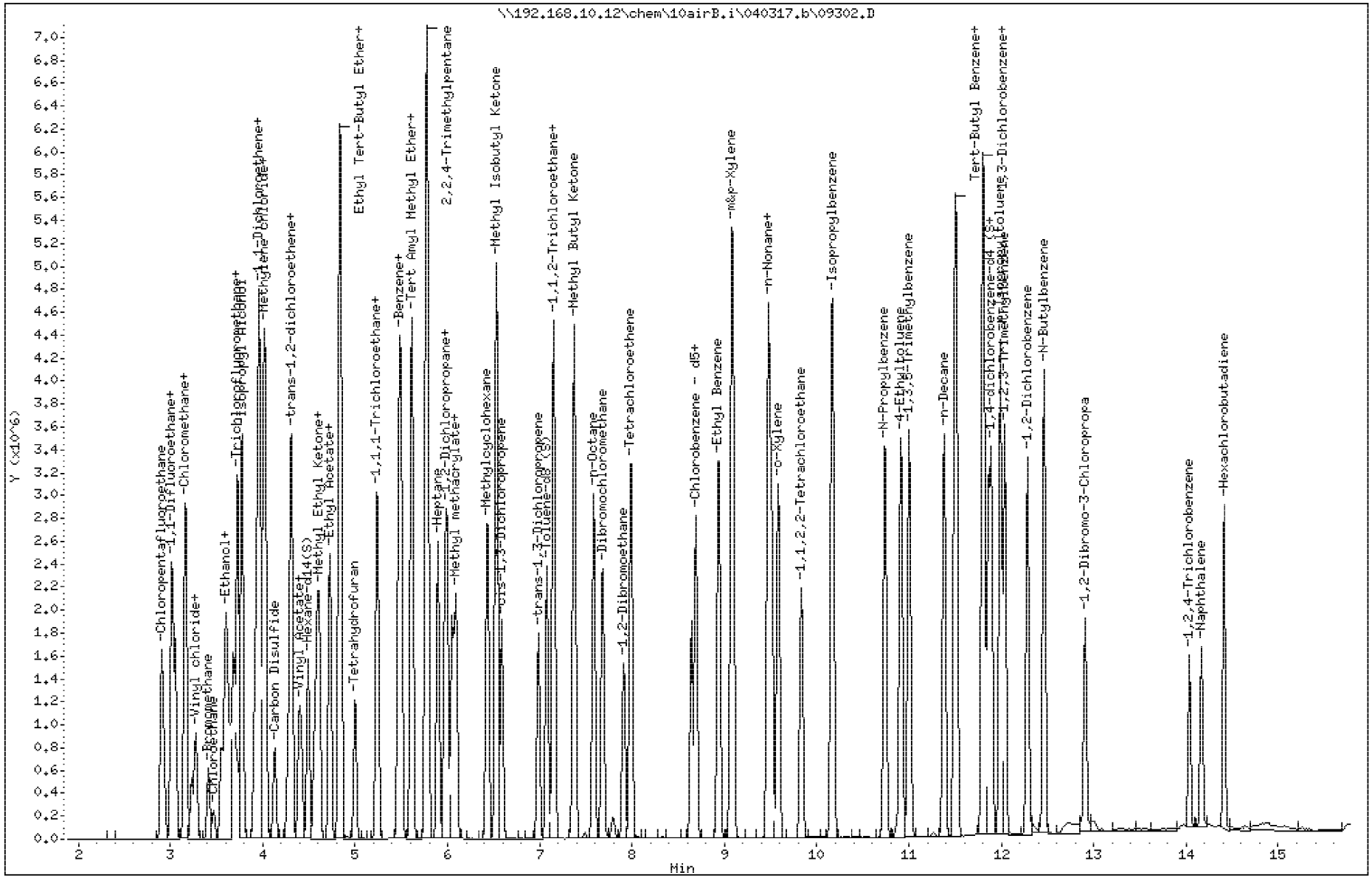
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1676809	-13.42
67 Chlorobenzene - d	1173864	704318	1643410	1087123	-7.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.12
67 Chlorobenzene - d	8.64	8.31	8.97	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

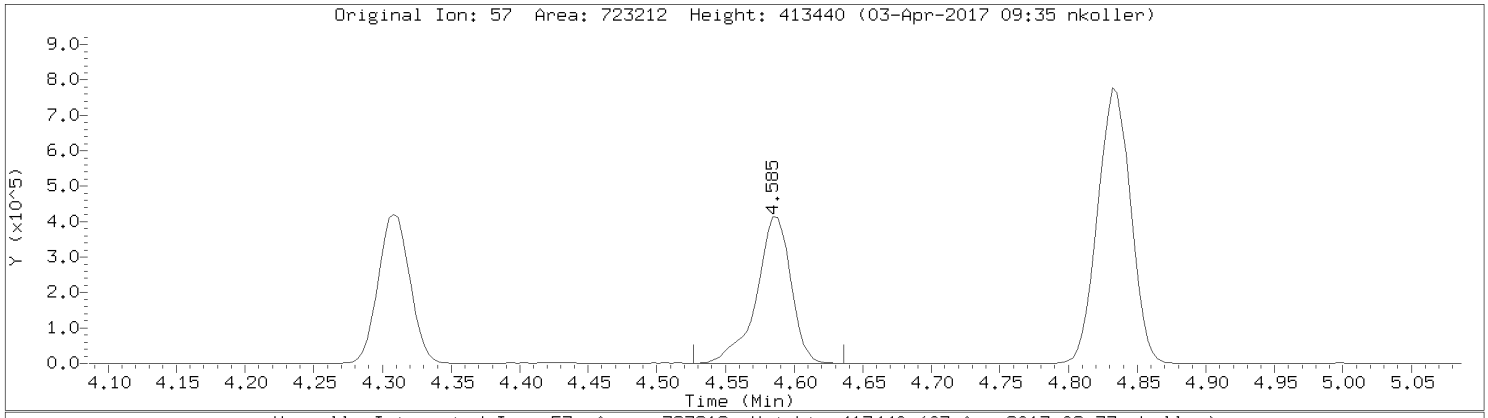
Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Date : 03-APR-2017 10:12
Client ID:
Sample Info:

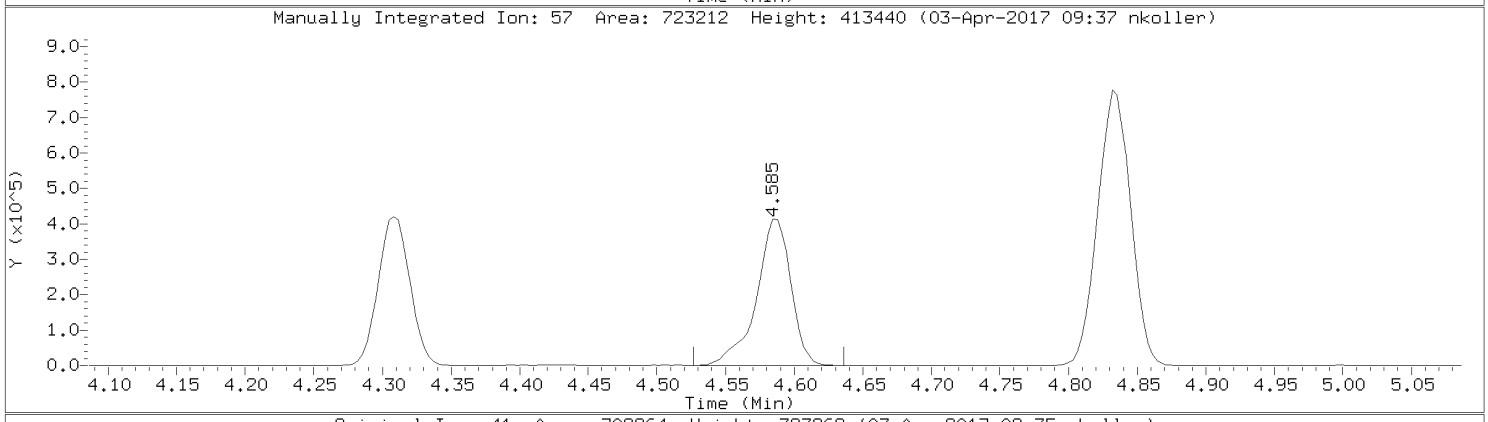
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

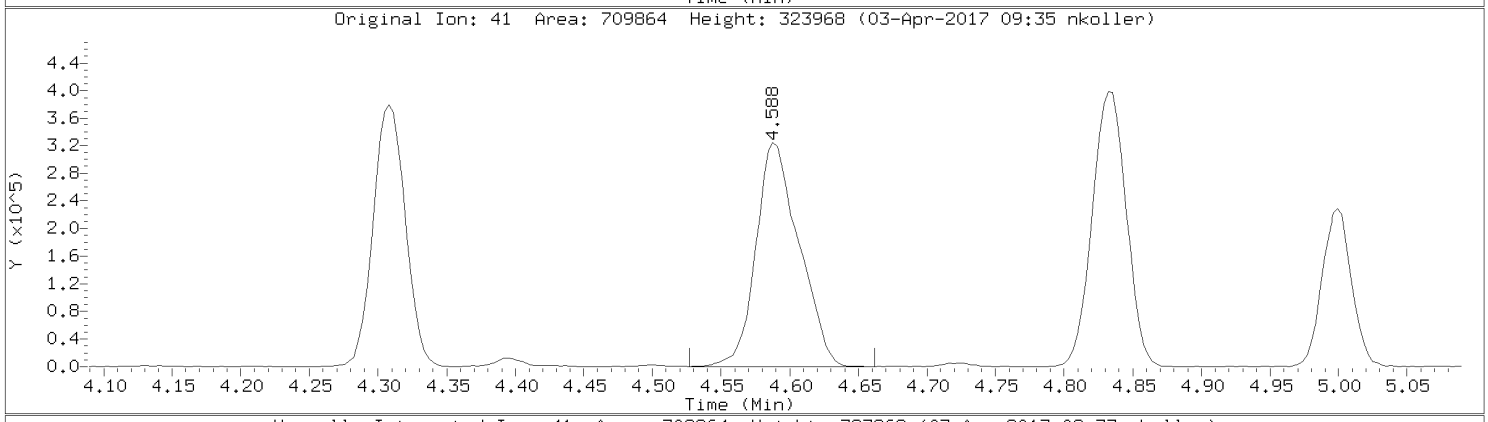


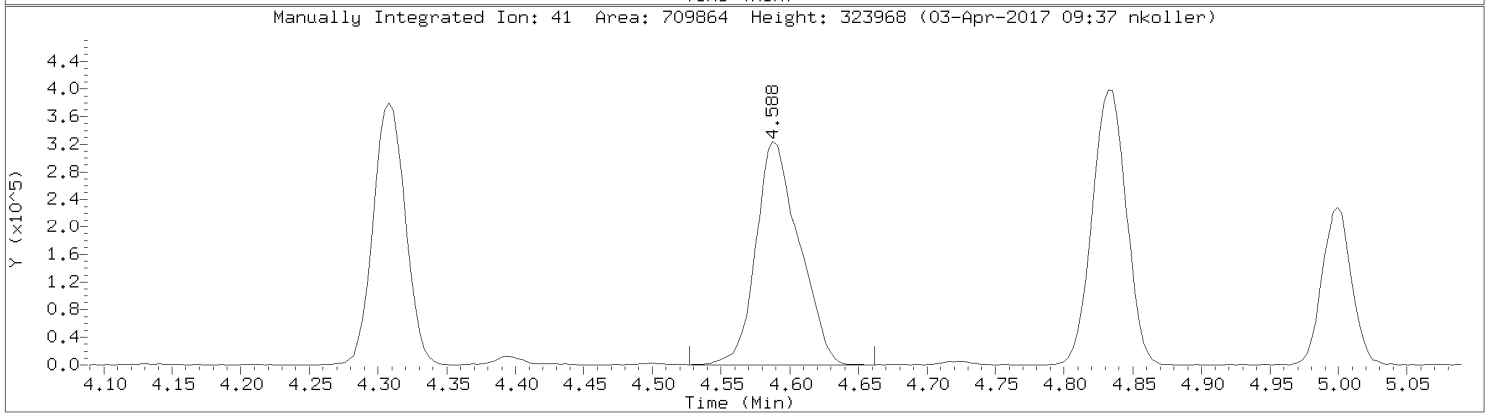
Data File: \\192.168.10.12\chem\10airB.i\040317.b/09302.D
Injection Date: 03-APR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: n-Hexane
CAS Number: 110-54-3

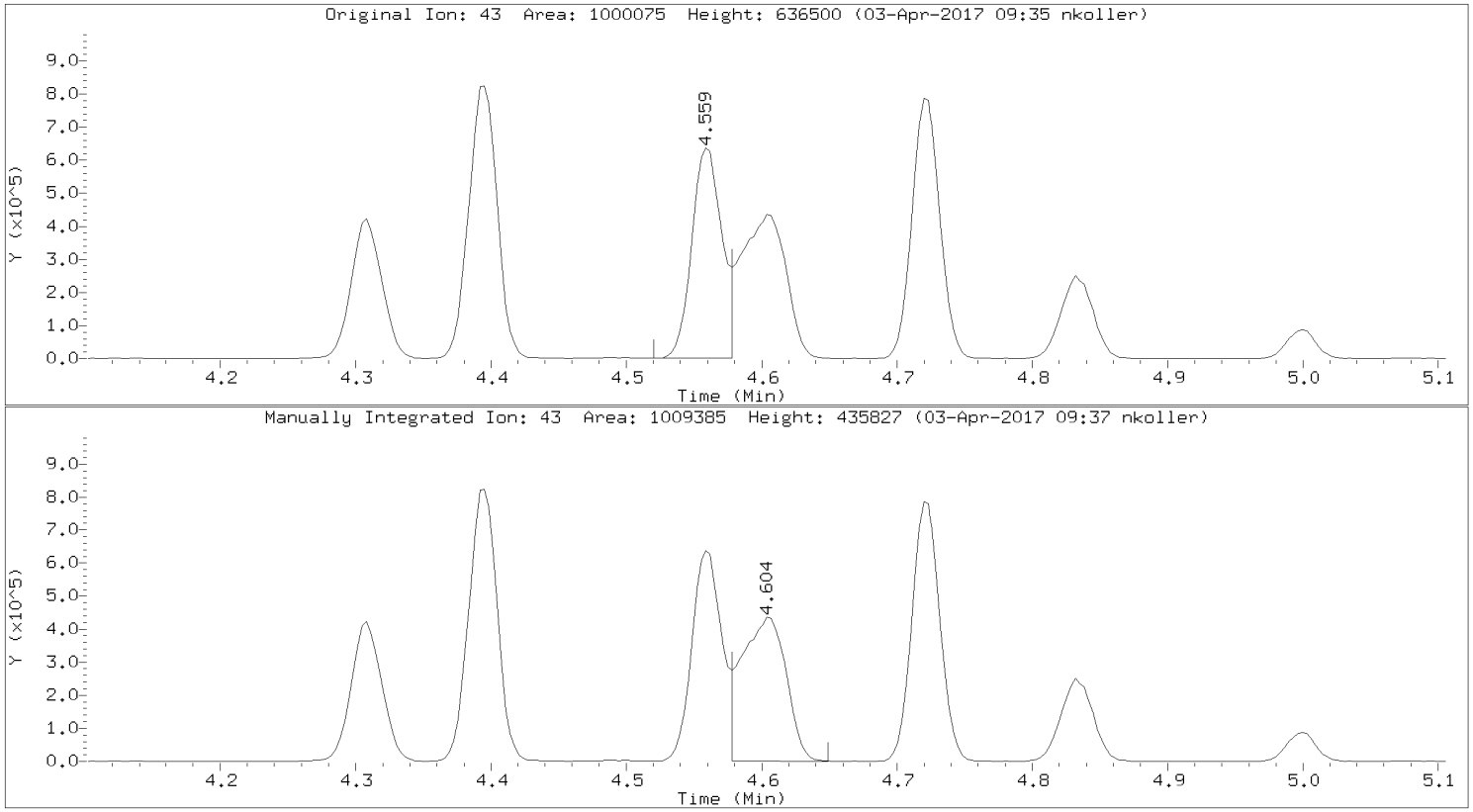








Data File: \\192.168.10.12\chem\10airB.i\040317.b/09302.D
Injection Date: 03-APR-2017 10:12
Instrument: 10airB.i
Lab Sample ID: ccv



Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-APR-2017 09:07
Lab File ID: 09402.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040417.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
1	Chloropentafluoroethane	10.00000	10.13284	0.20423	0.010	1.32839	30.00000	Line		
2	1,1-Difluoroethane	0.15603	0.18331	0.18331	0.010	17.48373	30.00000	Aver		
3	Chlorodifluoromethane	0.07016	0.07952	0.07952	0.010	13.33377	30.00000	Aver		
4	Propylene	0.19841	0.22907	0.22907	0.010	15.45137	30.00000	Aver		
5	Dichlorodifluoromethane	0.73759	0.79606	0.79606	0.010	7.92643	30.00000	Aver		
6	Chloromethane	0.32279	0.37400	0.37400	0.010	15.86707	30.00000	Aver		
7	Dichlorotetrafluoroethane	0.64016	0.76344	0.76344	0.010	19.25800	30.00000	Aver		
8	Vinyl chloride	0.25387	0.30235	0.30235	0.010	19.09699	30.00000	Aver		
9	1,3-Butadiene	0.20298	0.24172	0.24172	0.010	19.08713	30.00000	Aver		
10	Bromomethane	0.19460	0.24537	0.24537	0.010	26.09120	30.00000	Aver		
11	Chloroethane	0.10802	0.13493	0.13493	0.010	24.91309	30.00000	Aver		
12	Ethanol	0.09258	0.11607	0.11607	0.005	25.37497	30.00000	Aver		
13	Vinyl Bromide	0.18751	0.24234	0.24234	0.010	29.23683	30.00000	Aver		
14	Isopentane	0.26690	0.30685	0.30685	0.010	14.96838	30.00000	Aver		
15	Freon 123	0.44208	0.32708	0.32708	0.010	-26.01500	30.00000	Aver	(M)	
16	Trichlorofluoromethane	0.49968	0.61841	0.61841	0.010	23.76190	30.00000	Aver		
17	Acrolein	0.08522	0.11130	0.11130	0.010	30.61538	30.00000	Aver		<-
18	Acetone	0.35696	0.42510	0.42510	0.010	19.08765	30.00000	Aver		
19	Isopropyl Alcohol	0.40433	0.48634	0.48634	0.010	20.28281	30.00000	Aver		
20	1,1-Dichloroethene	0.35814	0.43964	0.43964	0.010	22.75639	30.00000	Aver		
21	Acrylonitrile	0.19077	0.23015	0.23015	0.010	20.63792	30.00000	Aver		
22	Freon 113	0.41196	0.47690	0.47690	0.010	15.76339	30.00000	Aver		
23	Methyl Acetate	0.59819	0.69493	0.69493	0.010	16.17136	30.00000	Aver		
24	Tert Butyl Alcohol (TBA)	0.49137	0.58323	0.58323	0.010	18.69501	30.00000	Aver		
25	Methylene chloride	0.28536	0.32201	0.32201	0.010	12.84177	30.00000	Aver		
26	Allyl Chloride	0.06773	0.09893	0.09893	0.010	46.05621	30.00000	Aver		<-
27	Carbon Disulfide	0.43959	0.55126	0.55126	0.010	25.40238	30.00000	Aver		
28	trans-1,2-dichloroethene	0.19651	0.23106	0.23106	0.010	17.57971	30.00000	Aver		
29	Methyl Tert Butyl Ether	0.51119	0.61345	0.61345	0.010	20.00332	30.00000	Aver		
30	Vinyl Acetate	0.63361	0.77089	0.77089	0.010	21.66663	30.00000	Aver		
31	1,1-Dichloroethane	0.38416	0.46696	0.46696	0.010	21.55455	30.00000	Aver		
$ 32	Hexane-d14(S)	0.37726	0.38610	0.38610	0.010	2.34428	30.00000	Aver		
33	Methyl Ethyl Ketone	0.10096	0.11260	0.11260	0.010	11.52798	30.00000	Aver		
34	n-Hexane	0.38395	0.45758	0.45758	0.010	19.17672	30.00000	Aver		
35	Di-isopropyl Ether	0.80676	0.92700	0.92700	0.010	14.90443	30.00000	Aver		
36	Ethyl Acetate	0.53627	0.62025	0.62025	0.010	15.66055	30.00000	Aver		
37	cis-1,2-Dichloroethene	0.21667	0.26214	0.26214	0.010	20.98585	30.00000	Aver		
38	Ethyl Tert-Butyl Ether	0.75635	0.99060	0.99060	0.010	30.97069	30.00000	Aver		<-
39	Chloroform	0.40530	0.54826	0.54826	0.010	35.27163	30.00000	Aver		<-
40	Tetrahydrofuran	0.31276	0.35790	0.35790	0.010	14.43279	30.00000	Aver		
41	1,1,1-Trichloroethane	0.52387	0.64612	0.64612	0.010	23.33568	30.00000	Aver		
42	1,2-Dichloroethane	0.43027	0.49707	0.49707	0.010	15.52595	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-APR-2017 09:07
Lab File ID: 09402.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040417.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.75411	0.88222	0.88222	0.010	16.98718	30.00000	Aver		
	44 Carbon tetrachloride	0.52566	0.65738	0.65738	0.010	25.05634	30.00000	Aver		
	45 Cyclohexane	0.43434	0.50543	0.50543	0.010	16.36756	30.00000	Aver		
	46 Tert Amyl Methyl Ether	0.81416	0.86824	0.86824	0.010	6.64267	30.00000	Aver		
	48 2,2,4-Trimethylpentane	1.32797	1.54820	1.54820	0.010	16.58394	30.00000	Aver		
	49 Heptane	0.51802	0.58444	0.58444	0.010	12.82020	30.00000	Aver		
	50 1,2-Dichloropropane	0.30863	0.35513	0.35513	0.010	15.06559	30.00000	Aver		
	51 Trichloroethene	0.40560	0.45195	0.45195	0.010	11.42763	30.00000	Aver		
	52 Methyl methacrylate	0.27259	0.30881	0.30881	0.010	13.28783	30.00000	Aver		
	53 1,4-Dioxane	0.18592	0.21870	0.21870	0.010	17.63349	30.00000	Aver		
	54 Bromodichloromethane	0.53129	0.65526	0.65526	0.010	23.33445	30.00000	Aver		
	55 Methylcyclohexane	0.21540	0.25906	0.25906	0.010	20.27217	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.70682	0.79811	0.79811	0.010	12.91625	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.41679	0.52645	0.52645	0.010	26.31075	30.00000	Aver		
	58 trans-1,3-Dichloropropene	0.36525	0.48782	0.48782	0.010	33.55574	30.00000	Aver		<-
$	59 Toluene-d8 (S)	0.83782	0.83510	0.83510	0.010	-0.32425	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.32854	0.37506	0.37506	0.010	14.15974	30.00000	Aver		
	61 Toluene	0.96913	1.09458	1.09458	0.010	12.94411	30.00000	Aver		
	62 Methyl Butyl Ketone	1.00495	1.20591	1.20591	0.010	19.99755	30.00000	Aver		
	63 n-Octane	1.13917	1.27962	1.27962	0.010	12.32882	30.00000	Aver		
	64 Dibromochloromethane	0.96719	1.18076	1.18076	0.010	22.08096	30.00000	Aver		
	65 1,2-Dibromoethane	0.88855	1.01272	1.01272	0.010	13.97437	30.00000	Aver		
	66 Tetrachloroethene	0.88546	0.95185	0.95185	0.010	7.49848	30.00000	Aver		
	68 Chlorobenzene	1.37212	1.49747	1.49747	0.010	9.13567	30.00000	Aver		
	69 Ethyl Benzene	2.12376	2.37498	2.37498	0.010	11.82871	30.00000	Aver		
	70 m&p-Xylene	1.60469	1.79658	1.79658	0.010	11.95848	30.00000	Aver		
	71 n-Nonane	1.04383	1.22543	1.22543	0.010	17.39773	30.00000	Aver		
	72 Bromoform	0.72919	0.99077	0.99077	0.010	35.87299	30.00000	Aver		<-
	73 Styrene	1.20677	1.41760	1.41760	0.010	17.47087	30.00000	Aver		
	74 o-Xylene	1.67239	1.84566	1.84566	0.010	10.36086	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.94443	1.09247	1.09247	0.010	15.67438	30.00000	Aver		
	76 Isopropylbenzene	2.33960	2.55123	2.55123	0.010	9.04578	30.00000	Aver		
	77 N-Propylbenzene	2.41285	2.93131	2.93131	0.010	21.48714	30.00000	Aver		
	78 4-Ethyltoluene	2.03882	2.50802	2.50802	0.010	23.01302	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.81770	2.10097	2.10097	0.010	15.58375	30.00000	Aver		
	80 n-Decane	0.63385	0.81458	0.81458	0.010	28.51341	30.00000	Aver		
	81 Tert-Butyl Benzene	1.90446	2.16441	2.16441	0.010	13.64940	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.63637	1.93091	1.93091	0.010	17.99926	30.00000	Aver		
	83 1,3-Dichlorobenzene	0.96807	1.24288	1.24288	0.010	28.38793	30.00000	Aver		
	84 Sec- Butylbenzene	2.36712	2.74442	2.74442	0.010	15.93925	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.45185	0.56301	0.56301	0.010	24.60121	30.00000	Aver	(M)	
	86 Benzyl Chloride	10.00000	12.07750	1.27420	0.010	20.77503	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-APR-2017 09:07
Lab File ID: 09402.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040417.b\TO15_090-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.93597	1.23867	1.23867	0.010	32.34107	30.00000	Aver		<-
88 p-Isopropyltoluene	1.99394	2.38919	2.38919	0.010	19.82281	30.00000	Aver		
89 1,2,3-Trimethylbenzene	1.62903	1.89712	1.89712	0.010	16.45686	30.00000	Aver		
90 1,2-Dichlorobenzene	0.90579	1.15658	1.15658	0.010	27.68728	30.00000	Aver		
91 N-Butylbenzene	1.41861	1.89826	1.89826	0.010	33.81138	30.00000	Aver		<-
92 1,2-Dibromo-3-Chloropropane	10.00000	10.94999	0.39971	0.010	9.49990	30.00000	Line		
93 1,2,4-Trichlorobenzene	10.00000	10.28586	0.31413	0.010	2.85855	30.00000	Quad		
94 Naphthalene	10.00000	9.81502	0.87074	0.010	-1.84975	30.00000	Line		
95 Hexachlorobutadiene	10.00000	12.37452	0.43131	0.010	23.74520	30.00000	Line		

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 18.50304
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Lab Smp Id: ccv
Inj Date : 04-APR-2017 09:07
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040417.b\TO15_090-17.m
Meth Date : 04-Apr-2017 09:27 nkoller Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.944	2.944	(0.525)	333045	10.0000	10.1
2	1,1-Difluoroethane	65	3.021	3.021	(0.538)	298925	10.0000	11.7
3	Chlorodifluoromethane	67	3.028	3.028	(0.539)	129674	10.0000	11.3
4	Propylene	41	3.025	3.025	(0.539)	373544	10.0000	11.5
5	Dichlorodifluoromethane	85	3.063	3.063	(0.546)	1298156	10.0000	10.8
6	Chloromethane	50	3.160	3.160	(0.563)	609897	10.0000	11.6
7	Dichlorotetrafluoroethane	85	3.173	3.173	(0.565)	1244963	10.0000	11.9
8	Vinyl chloride	62	3.237	3.237	(0.577)	493049	10.0000	11.9
9	1,3-Butadiene	54	3.279	3.279	(0.584)	394186	10.0000	11.9
10	Bromomethane	94	3.417	3.417	(0.609)	400130	10.0000	12.6
11	Chloroethane	64	3.475	3.475	(0.619)	220030	10.0000	12.5
12	Ethanol	45	3.549	3.549	(0.632)	946411	50.0000	62.7
13	Vinyl Bromide	106	3.587	3.587	(0.639)	395188	10.0000	12.9
14	Isopentane	43	3.607	3.607	(0.643)	500397	10.0000	11.5
15	Freon 123	83	3.639	3.639	(0.648)	533373	10.0000	7.40(M)
16	Trichlorofluoromethane	101	3.681	3.681	(0.656)	1008458	10.0000	12.4
17	Acrolein	56	3.690	3.690	(0.657)	453767	25.0000	32.7
18	Acetone	43	3.726	3.726	(0.664)	3466103	50.0000	59.5
19	Isopropyl Alcohol	45	3.771	3.771	(0.672)	3965445	50.0000	60.1
20	1,1-Dichloroethene	61	3.919	3.919	(0.698)	716927	10.0000	12.3
21	Acrylonitrile	53	3.931	3.931	(0.700)	938268	25.0000	30.2
22	Freon 113	101	3.957	3.957	(0.705)	777692	10.0000	11.6
23	Methyl Acetate	43	3.964	3.964	(0.706)	1133240	10.0000	11.6

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.960	3.960	(0.706)	2377722	25.0000	29.7
	25 Methylene chloride	49	4.012	4.012	(0.715)	2625554	50.0000	56.4
	26 Allyl Chloride	76	4.025	4.025	(0.717)	403306	25.0000	36.5
	27 Carbon Disulfide	76	4.131	4.131	(0.736)	898955	10.0000	12.5
	28 trans-1,2-dichloroethene	96	4.282	4.282	(0.763)	376791	10.0000	11.8
	29 Methyl Tert Butyl Ether	73	4.308	4.308	(0.767)	2500925	25.0000	30.0
	30 Vinyl Acetate	43	4.394	4.394	(0.783)	1257110	10.0000	12.2
	31 1,1-Dichloroethane	63	4.414	4.414	(0.786)	761483	10.0000	12.2
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	629625	10.0000	10.2
	33 Methyl Ethyl Ketone	72	4.558	4.558	(0.812)	183621	10.0000	11.2
	34 n-Hexane	57	4.587	4.587	(0.817)	746197	10.0000	11.9
	35 Di-isopropyl Ether	45	4.607	4.607	(0.821)	1511691	10.0000	11.5
	36 Ethyl Acetate	43	4.719	4.719	(0.841)	1011459	10.0000	11.6
	37 cis-1,2-Dichloroethene	96	4.729	4.729	(0.842)	427478	10.0000	12.1
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.861)	4038489	25.0000	32.7
	39 Chloroform	83	4.845	4.845	(0.863)	894058	10.0000	13.5
	40 Tetrahydrofuran	42	4.996	4.996	(0.890)	583633	10.0000	11.4
	41 1,1,1-Trichloroethane	97	5.234	5.234	(0.932)	1053646	10.0000	12.3
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	810585	10.0000	11.6
	43 Benzene	78	5.472	5.472	(0.975)	1438658	10.0000	11.7
	44 Carbon tetrachloride	117	5.488	5.488	(0.978)	1072005	10.0000	12.5
	45 Cyclohexane	56	5.494	5.494	(0.979)	824228	10.0000	11.6
	46 Tert Amyl Methyl Ether	73	5.607	5.607	(0.999)	1415867	10.0000	10.7
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1630730	10.0000	
	48 2,2,4-Trimethylpentane	57	5.774	5.774	(1.029)	6311752	25.0000	29.1
	49 Heptane	43	5.893	5.893	(1.050)	953056	10.0000	11.3
	50 1,2-Dichloropropane	63	5.970	5.970	(1.064)	579117	10.0000	11.5
	51 Trichloroethene	130	5.989	5.989	(1.067)	737011	10.0000	11.1
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	503588	10.0000	11.3
	53 1,4-Dioxane	88	6.070	6.070	(1.081)	356641	10.0000	11.8
	54 Bromodichloromethane	83	6.089	6.089	(1.085)	1068554	10.0000	12.3
	55 Methylcyclohexane	98	6.436	6.436	(1.147)	422459	10.0000	12.0
	56 Methyl Isobutyl Ketone	43	6.533	6.533	(1.164)	3253761	25.0000	28.2
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	858495	10.0000	12.6
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	795501	10.0000	13.4
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1361827	10.0000	9.97
	60 1,1,2-Trichloroethane	97	7.150	7.150	(1.274)	611625	10.0000	11.4
	61 Toluene	91	7.156	7.156	(1.275)	1784963	10.0000	11.3
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	2998109	25.0000	30.0
	63 n-Octane	43	7.584	7.584	(0.877)	1272542	10.0000	11.2
	64 Dibromochloromethane	129	7.680	7.680	(0.888)	1174229	10.0000	12.2
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	1007118	10.0000	11.4
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	946589	10.0000	10.7
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	994472	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	1489190	10.0000	10.9
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	2361849	10.0000	11.2
	70 m&p-Xylene	91	9.082	9.082	(1.051)	3573304	20.0000	22.4
	71 n-Nonane	43	9.471	9.471	(1.096)	1218658	10.0000	11.7
	72 Bromoform	173	9.481	9.481	(1.097)	985295	10.0000	13.6
	73 Styrene	104	9.507	9.507	(1.100)	1409766	10.0000	11.7
	74 o-Xylene	91	9.581	9.581	(1.108)	1835459	10.0000	11.0
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1086429	10.0000	11.6
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	2537130	10.0000	10.9
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	2915101	10.0000	12.1

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.263)	2494154	10.0000	12.3
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	2089351	10.0000	11.6
80	n-Decane	57	11.381	11.381	(2.028)	1328362	10.0000	12.9
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2152447	10.0000	11.4
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	1920231	10.0000	11.8
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	1236014	10.0000	12.8
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	2729250	10.0000	11.6
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	559899	10.0000	12.5(M)
86	Benzyl Chloride	91	11.864	11.864	(1.372)	1267158	10.0000	12.1
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	1231826	10.0000	13.2
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	2375987	10.0000	12.0
89	1,2,3-Trimethylbenzene	105	12.037	12.037	(1.392)	1886633	10.0000	11.6
90	1,2-Dichlorobenzene	146	12.282	12.282	(1.421)	1150182	10.0000	12.8
91	N-Butylbenzene	91	12.462	12.462	(1.441)	1887766	10.0000	13.4
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	397505	10.0000	10.9
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.623)	312392	10.0000	10.3
94	Naphthalene	128	14.159	14.159	(1.638)	865922	10.0000	9.82
95	Hexachlorobutadiene	225	14.407	14.407	(1.666)	428925	10.0000	12.4

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09402.D
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\040417.b\TO15_090-17.m
Misc Info:

Calibration Date: 03-APR-2017
Calibration Time: 10:12
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

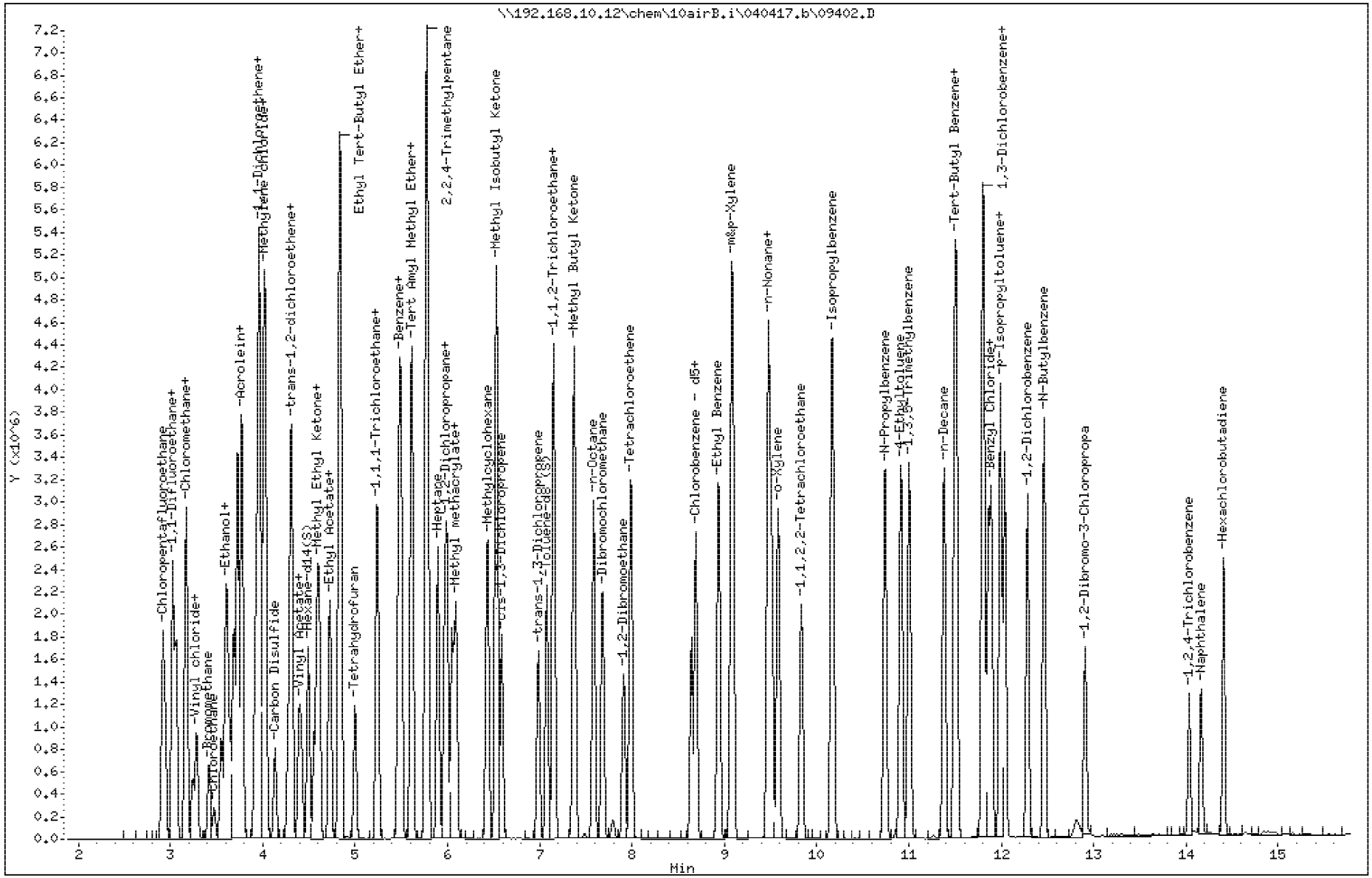
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1630730	-15.80
67 Chlorobenzene - d	1173864	704318	1643410	994472	-15.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.06
67 Chlorobenzene - d	8.64	8.31	8.97	8.65	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

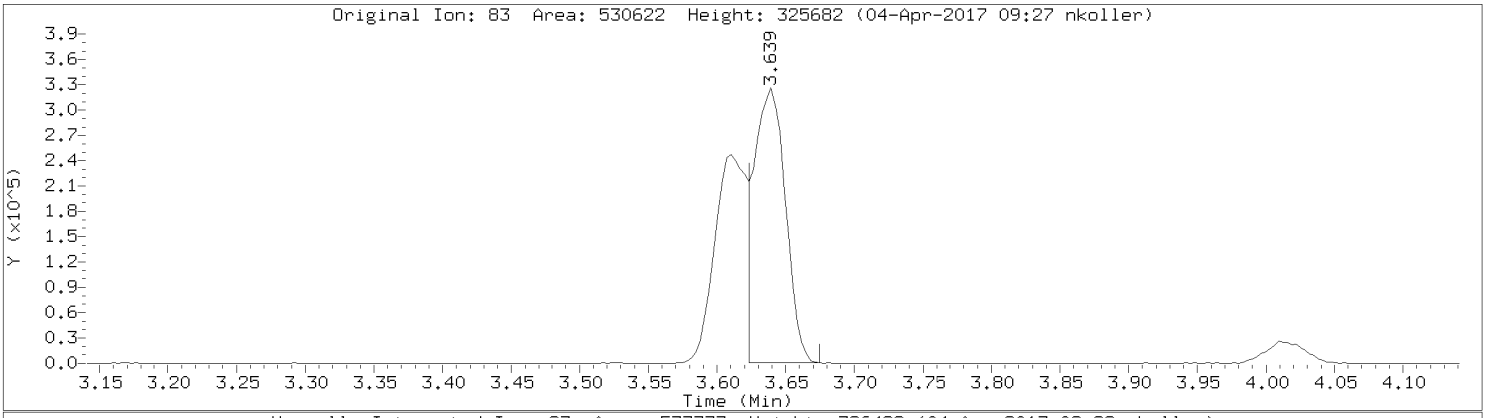
Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Date : 04-APR-2017 09:07
Client ID:
Sample Info:

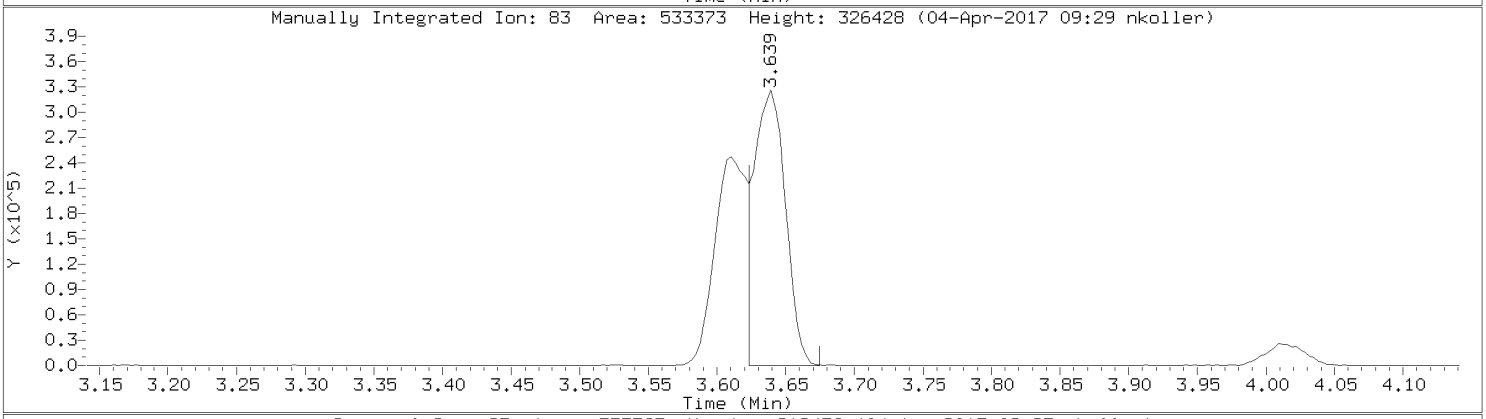
Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32

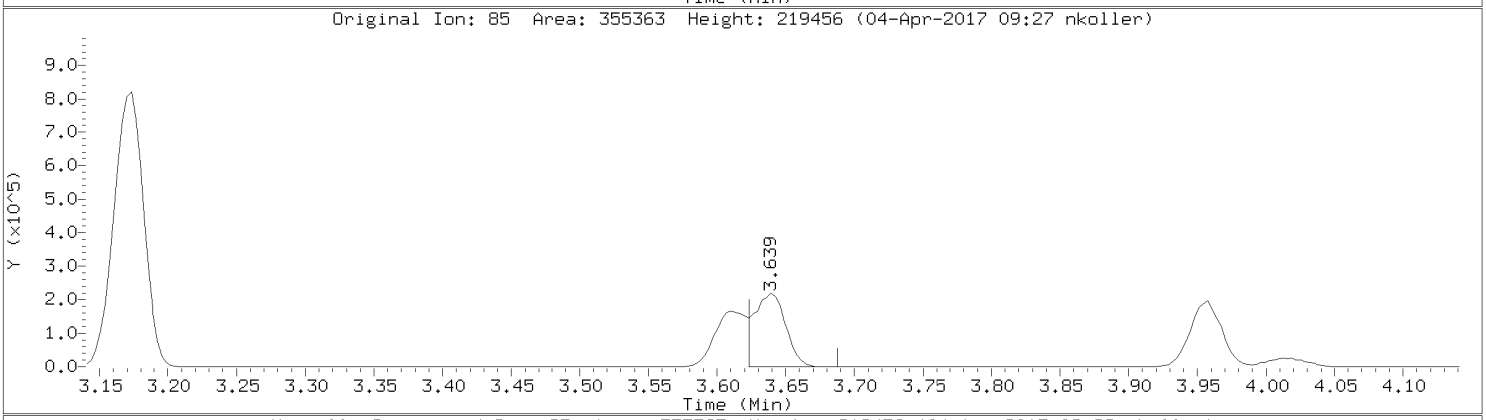


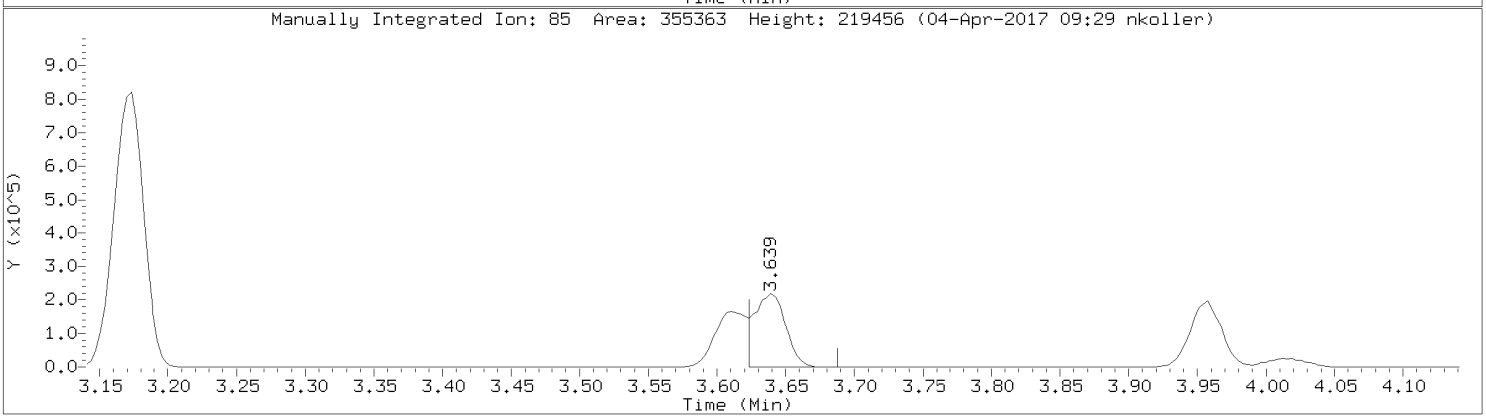
Data File: \\192.168.10.12\chem\10airB.i\040417.b/09402.D
Injection Date: 04-APR-2017 09:07
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: Freon 123
CAS Number: 306-83-2

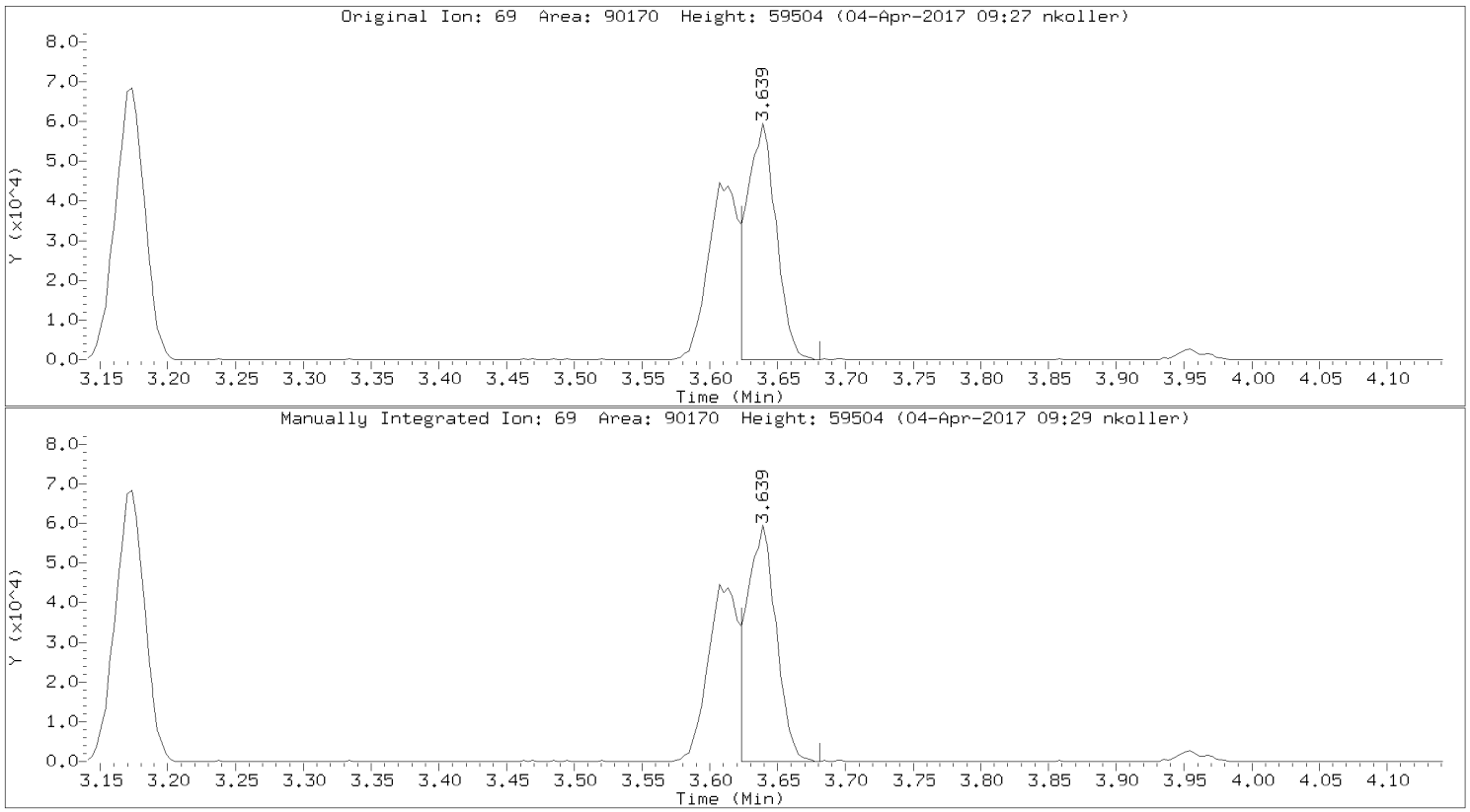






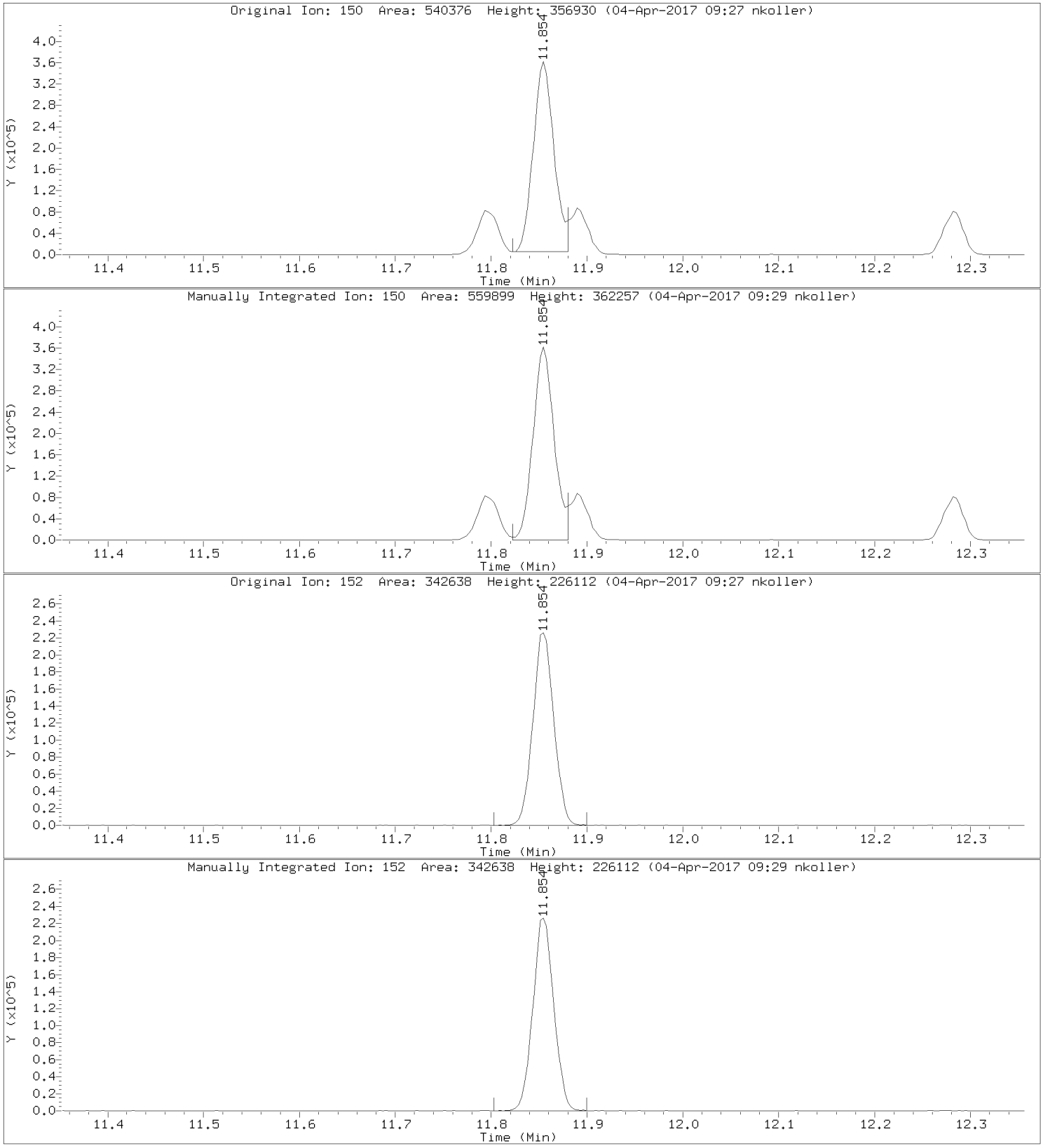


Data File: \\192.168.10.12\chem\10airB.i\040417.b/09402.D
Injection Date: 04-APR-2017 09:07
Instrument: 10airB.i
Lab Sample ID: ccv



Data File: \\192.168.10.12\chem\10airB.i\040417.b/09402.D
Injection Date: 04-APR-2017 09:07
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\032717.b\08609BFB.D

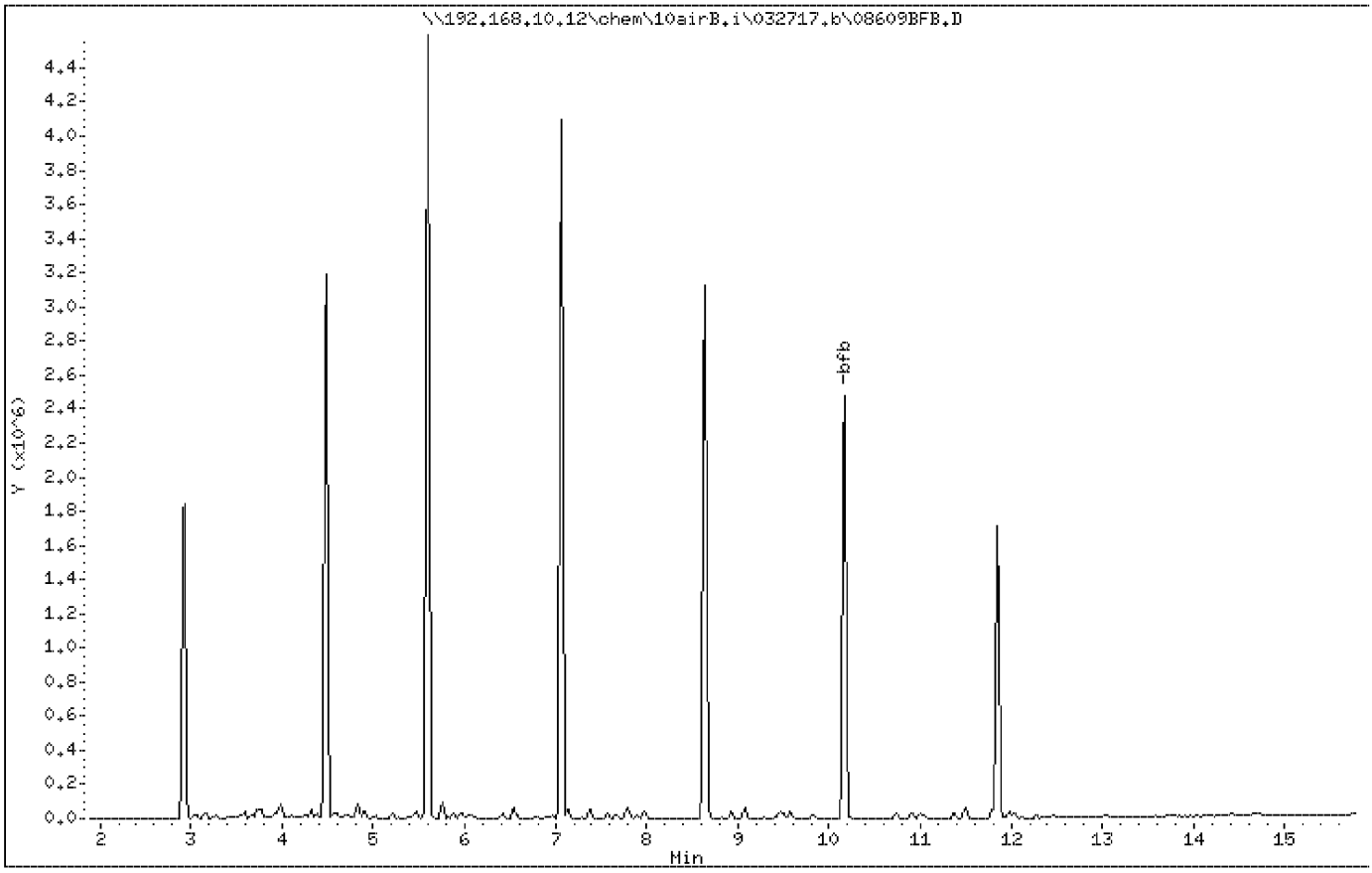
Date : 27-MAR-2017 12:41

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032717.b\08609BFB.D

Date : 27-MAR-2017 12:41

Client ID: BFB

Instrument: 10airB.i

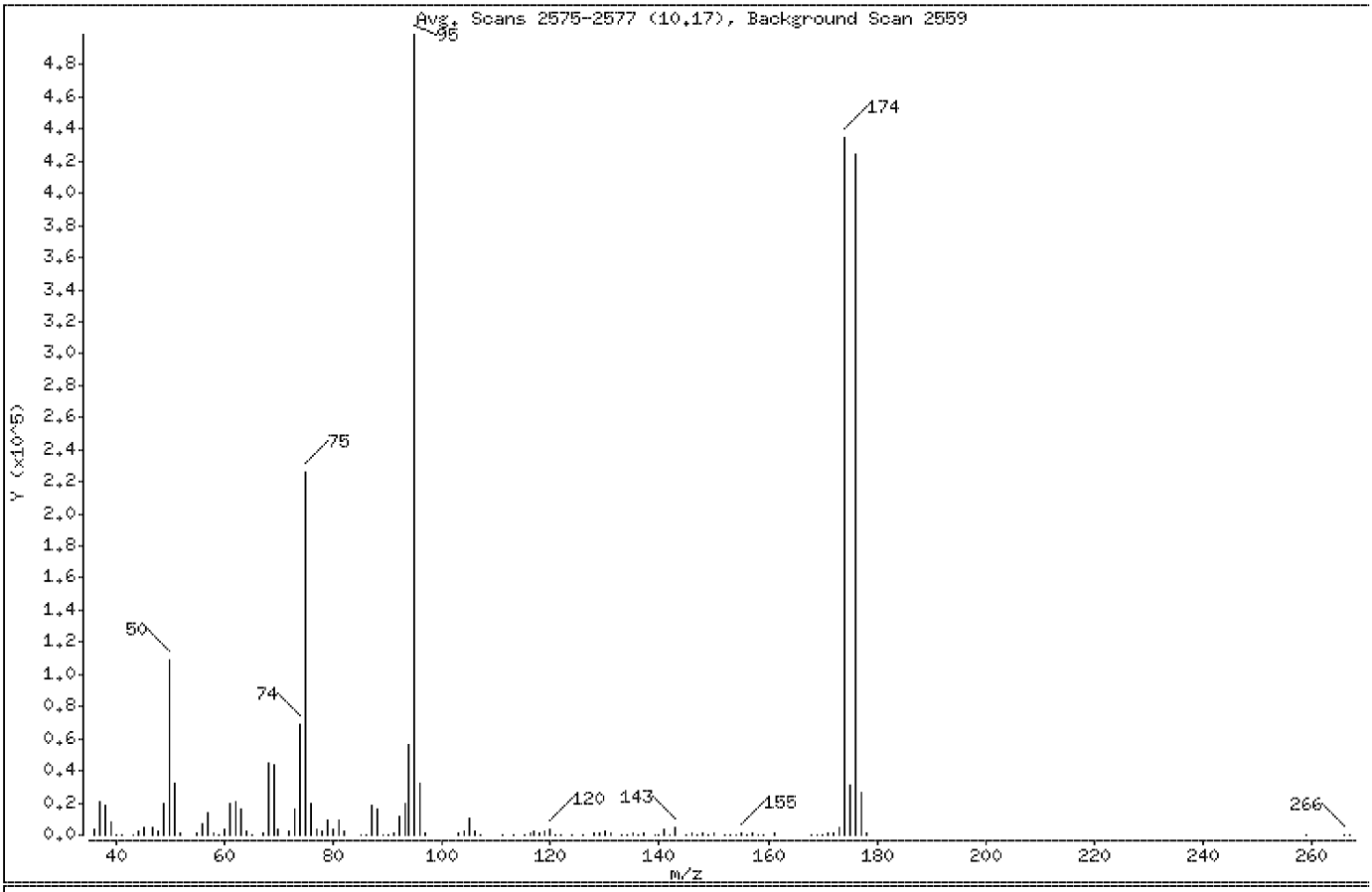
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.91
75	30.00 - 66.00% of mass 95	45.18
96	5.00 - 9.00% of mass 95	6.40
173	Less than 2.00% of mass 174	0.98 (1.13)
174	50.00 - 120.00% of mass 95	87.16
175	4.00 - 9.00% of mass 174	6.19 (7.11)
176	93.00 - 101.00% of mass 174	85.14 (97.69)
177	5.00 - 9.00% of mass 176	5.34 (6.28)

Date : 27-MAR-2017 12:41

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 08609BFB.D
Spectrum: Avg. Scans 2575-2577 (10,17), Background Scan 2559
Location of Maximum: 95.00
Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3923	70.00	2944	107.00	87	147.00	393
37.00	20352	72.00	2196	111.00	131	148.00	1173
38.00	18240	73.00	16179	113.00	185	149.00	240
39.00	8358	74.00	68512	115.00	567	150.00	627
40.00	357	75.00	225408	116.00	1576	152.00	8
41.00	265	76.00	19128	117.00	2077	153.00	488
43.00	220	77.00	3506	118.00	1606	154.00	234
44.00	2547	78.00	1857	119.00	2605	155.00	1237
45.00	4441	79.00	8769	120.00	3199	156.00	130
47.00	5109	80.00	3463	121.00	133	157.00	896
48.00	1739	81.00	9023	122.00	188	158.00	110
49.00	18960	82.00	1892	124.00	481	159.00	448
50.00	109320	85.00	144	126.00	88	161.00	696
51.00	32240	86.00	202	128.00	1618	168.00	102
52.00	1260	87.00	17944	129.00	1005	169.00	327
55.00	1453	88.00	16038	130.00	1863	170.00	484
56.00	6542	89.00	100	131.00	611	171.00	588
57.00	13484	90.00	338	133.00	103	172.00	975
58.00	708	91.00	1656	134.00	139	173.00	4895
59.00	225	92.00	11739	135.00	707	174.00	434816
60.00	3476	93.00	19088	136.00	92	175.00	30896
61.00	19920	94.00	56088	137.00	693	176.00	424768
62.00	20496	95.00	498880	139.00	422	177.00	26664
63.00	16592	96.00	31928	140.00	260	178.00	912
64.00	1879	97.00	925	141.00	3512	259.00	117
65.00	373	103.00	1422	142.00	533	266.00	144
67.00	1237	104.00	2131	143.00	4647	267.00	108
68.00	44456	105.00	10460	145.00	301		
69.00	43560	106.00	2136	146.00	888		

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08701BFB.D

Date : 28-MAR-2017 09:23

Client ID: BFB

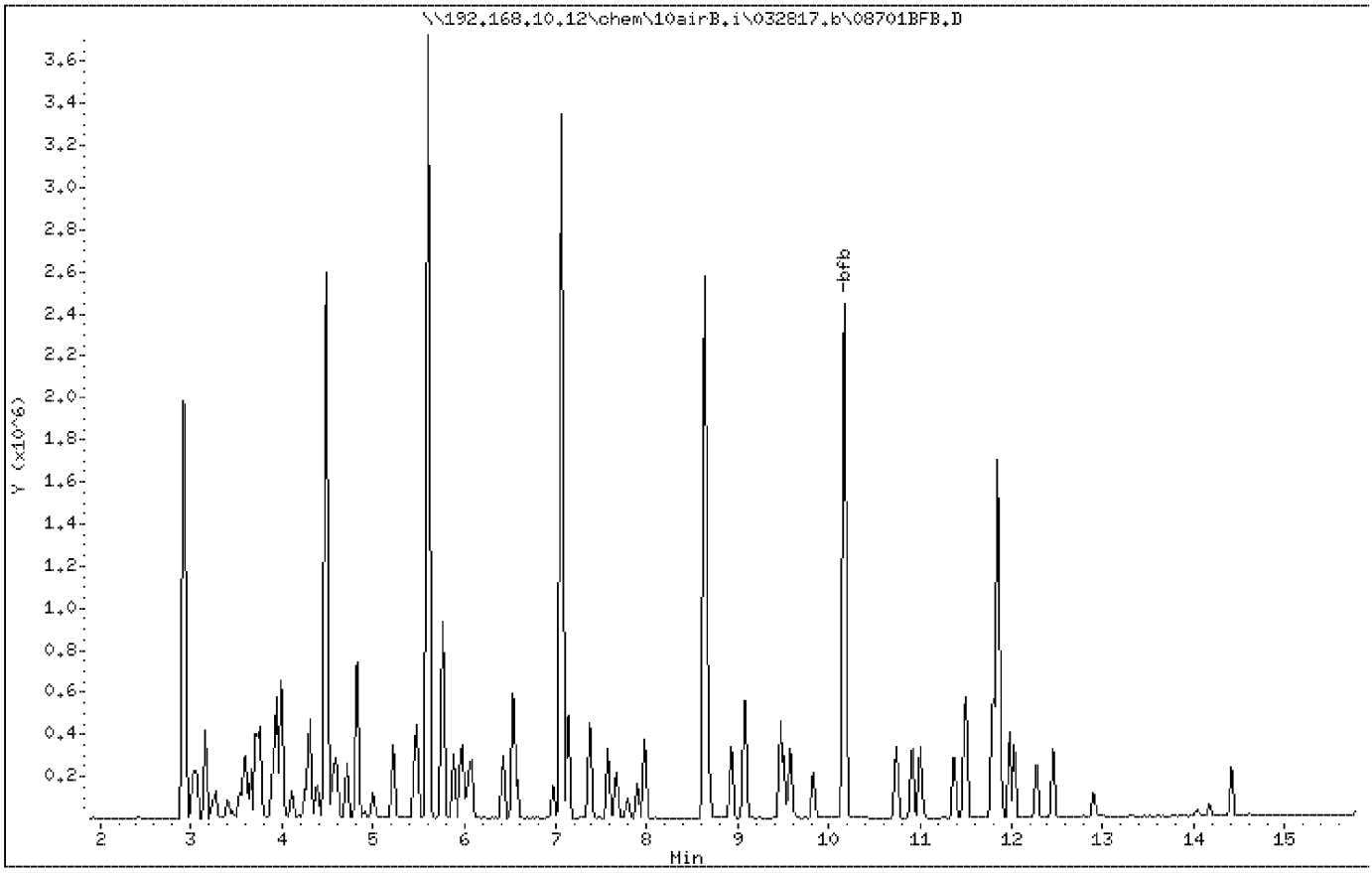
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08701BFB.D

Date : 28-MAR-2017 09:23

Client ID: BFB

Instrument: 10airB.i

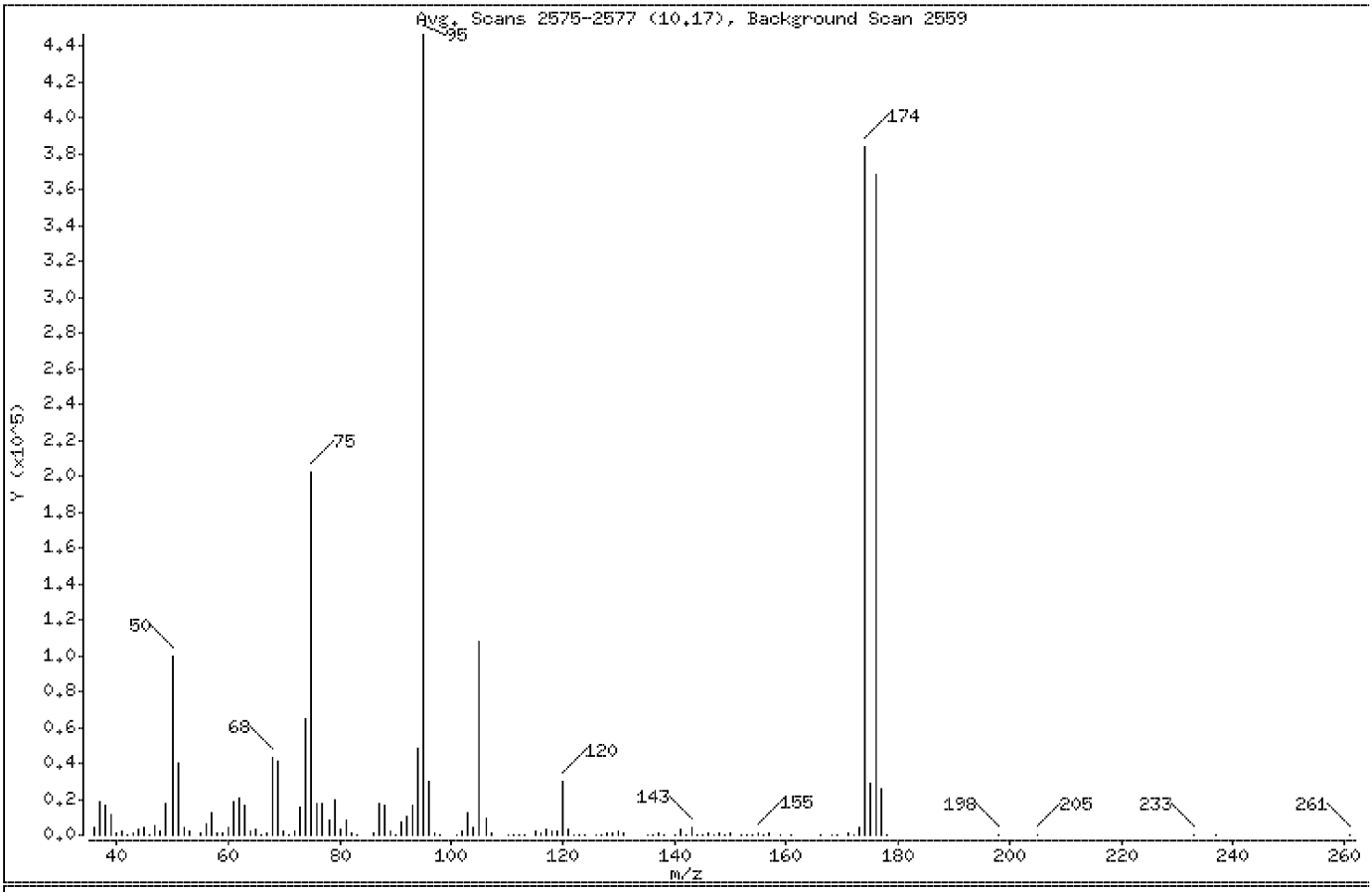
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.40
75	30.00 - 66.00% of mass 95	45.27
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.81 (0.94)
174	50.00 - 120.00% of mass 95	86.07
175	4.00 - 9.00% of mass 174	6.33 (7.36)
176	93.00 - 101.00% of mass 174	82.58 (95.93)
177	5.00 - 9.00% of mass 176	5.65 (6.84)

Date : 28-MAR-2017 09:23

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 08701BFB.D
Spectrum: Avg. Scans 2575-2577 (10.17), Background Scan 2559
Location of Maximum: 95.00
Number of points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3743	69.00	41456	105.00	108176	145.00	357
37.00	18376	70.00	2305	106.00	9675	146.00	557
38.00	16784	71.00	153	107.00	684	147.00	263
39.00	11238	72.00	2120	110.00	100	148.00	955
40.00	515	73.00	15567	111.00	86	149.00	86
41.00	2462	74.00	64624	112.00	198	150.00	589
42.00	237	75.00	202048	113.00	358	152.00	264
43.00	683	76.00	17824	115.00	2089	153.00	138
44.00	2677	77.00	17920	116.00	1495	154.00	506
45.00	4096	78.00	8441	117.00	2819	155.00	904
46.00	146	79.00	19968	118.00	1902	156.00	87
47.00	5128	80.00	2638	119.00	2549	157.00	744
48.00	2333	81.00	7719	120.00	29344	159.00	268
49.00	17752	82.00	1417	121.00	2809	161.00	478
50.00	99952	83.00	125	122.00	112	166.00	102
51.00	40400	86.00	676	123.00	157	168.00	129
52.00	3745	87.00	17192	124.00	240	169.00	424
53.00	1775	88.00	16912	126.00	84	171.00	670
55.00	932	89.00	1713	127.00	109	172.00	453
56.00	6373	90.00	367	128.00	1278	173.00	3616
57.00	11892	91.00	7530	129.00	716	174.00	384128
58.00	839	92.00	10336	130.00	1718	175.00	28256
59.00	725	93.00	16864	131.00	738	176.00	368512
60.00	4228	94.00	48328	135.00	474	177.00	25216
61.00	18768	95.00	446272	136.00	177	178.00	465
62.00	20872	96.00	29560	137.00	640	198.00	96
63.00	16520	97.00	766	138.00	94	205.00	107
64.00	1729	98.00	181	140.00	232	233.00	98
65.00	2806	101.00	181	141.00	3299	237.00	98
66.00	255	102.00	1588	142.00	473	261.00	176
67.00	580	103.00	12390	143.00	4115		
68.00	43576	104.00	4080	144.00	248		

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08801BFB.D

Date : 29-MAR-2017 08:28

Client ID: BFB

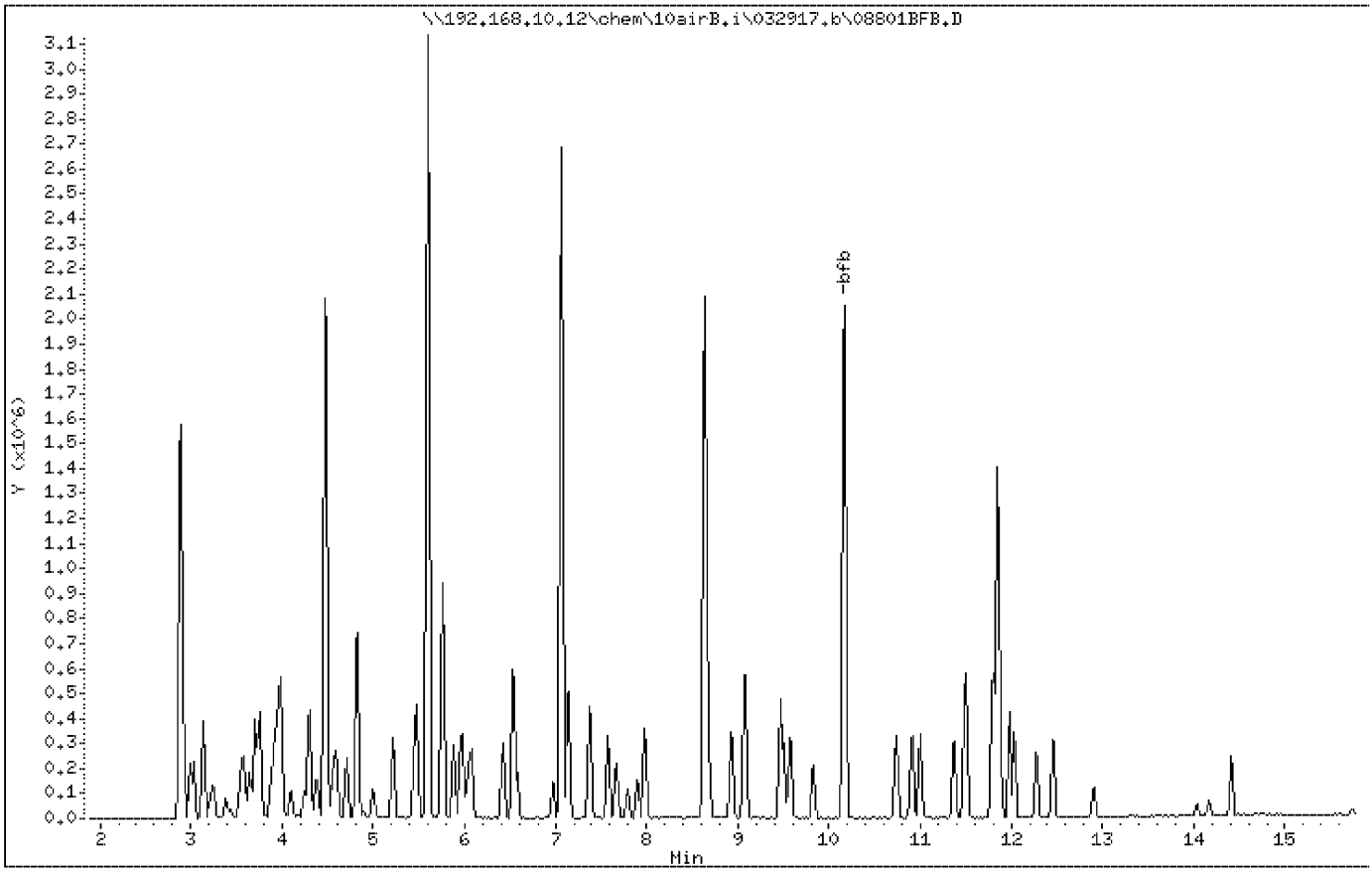
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032917.b\08801BFB.D

Date : 29-MAR-2017 08:28

Client ID: BFB

Instrument: 10airB.i

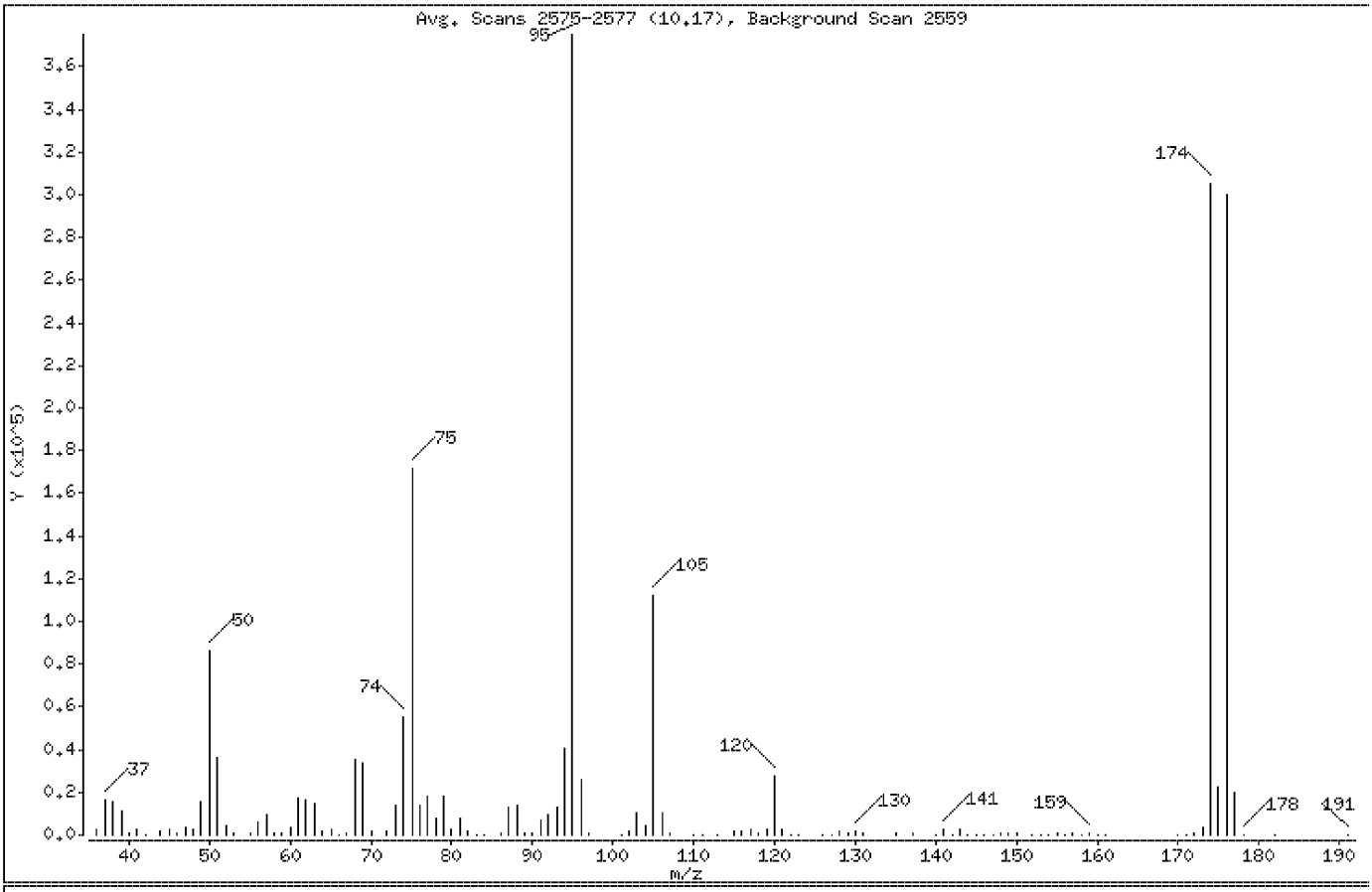
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.10
75	30.00 - 66.00% of mass 95	45.68
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.94 (1.16)
174	50.00 - 120.00% of mass 95	81.42
175	4.00 - 9.00% of mass 174	5.88 (7.23)
176	93.00 - 101.00% of mass 174	80.10 (98.39)
177	5.00 - 9.00% of mass 176	5.23 (6.52)

Date : 29-MAR-2017 08:28

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 08801BFB.D
Spectrum: Avg. Scans 2575-2577 (10,17), Background Scan 2559
Location of Maximum: 95.00
Number of points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2540	68.00	35544	103.00	10634	145.00	272
37.00	16432	69.00	33712	104.00	4621	146.00	372
38.00	15351	70.00	2153	105.00	112304	147.00	182
39.00	11299	72.00	1471	106.00	10540	148.00	985
40.00	758	73.00	13855	107.00	634	149.00	509
41.00	2964	74.00	54808	110.00	95	150.00	436
42.00	416	75.00	171328	111.00	131	152.00	262
44.00	1481	76.00	14218	113.00	396	153.00	106
45.00	2911	77.00	17768	115.00	1508	154.00	235
46.00	483	78.00	7761	116.00	1381	155.00	639
47.00	3869	79.00	18016	117.00	2188	156.00	108
48.00	2340	80.00	2825	118.00	1067	157.00	573
49.00	15162	81.00	7968	119.00	2179	158.00	95
50.00	86632	82.00	1402	120.00	27160	159.00	766
51.00	36280	83.00	187	121.00	2948	160.00	172
52.00	4152	84.00	88	122.00	243	161.00	126
53.00	1286	86.00	478	123.00	123	170.00	184
55.00	982	87.00	12850	126.00	93	171.00	303
56.00	5873	88.00	13530	127.00	115	172.00	652
57.00	9752	89.00	1124	128.00	1335	173.00	3529
58.00	893	90.00	438	129.00	760	174.00	305344
59.00	596	91.00	7192	130.00	1383	175.00	22064
60.00	3187	92.00	9060	131.00	745	176.00	300416
61.00	17120	93.00	13144	135.00	624	177.00	19600
62.00	16632	94.00	40904	137.00	860	178.00	309
63.00	14354	95.00	375040	140.00	121	182.00	91
64.00	1489	96.00	26024	141.00	2745	191.00	114
65.00	2727	97.00	729	142.00	335		
66.00	166	101.00	364	143.00	2620		
67.00	959	102.00	1873	144.00	90		

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08841BFB.D

Date : 30-MAR-2017 05:04

Client ID: BFB

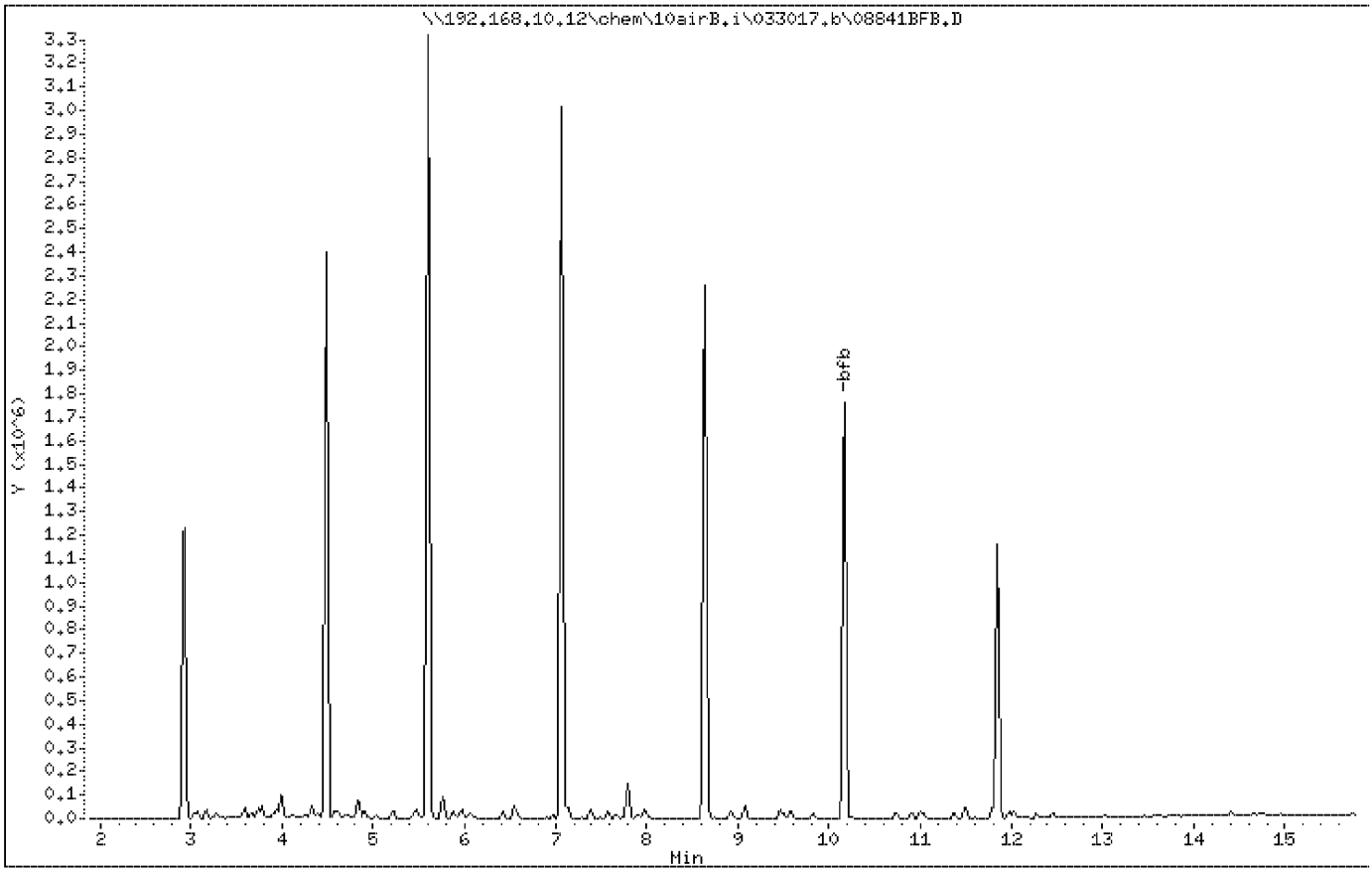
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08841BFB.D

Date : 30-MAR-2017 05:04

Client ID: BFB

Instrument: 10airB.i

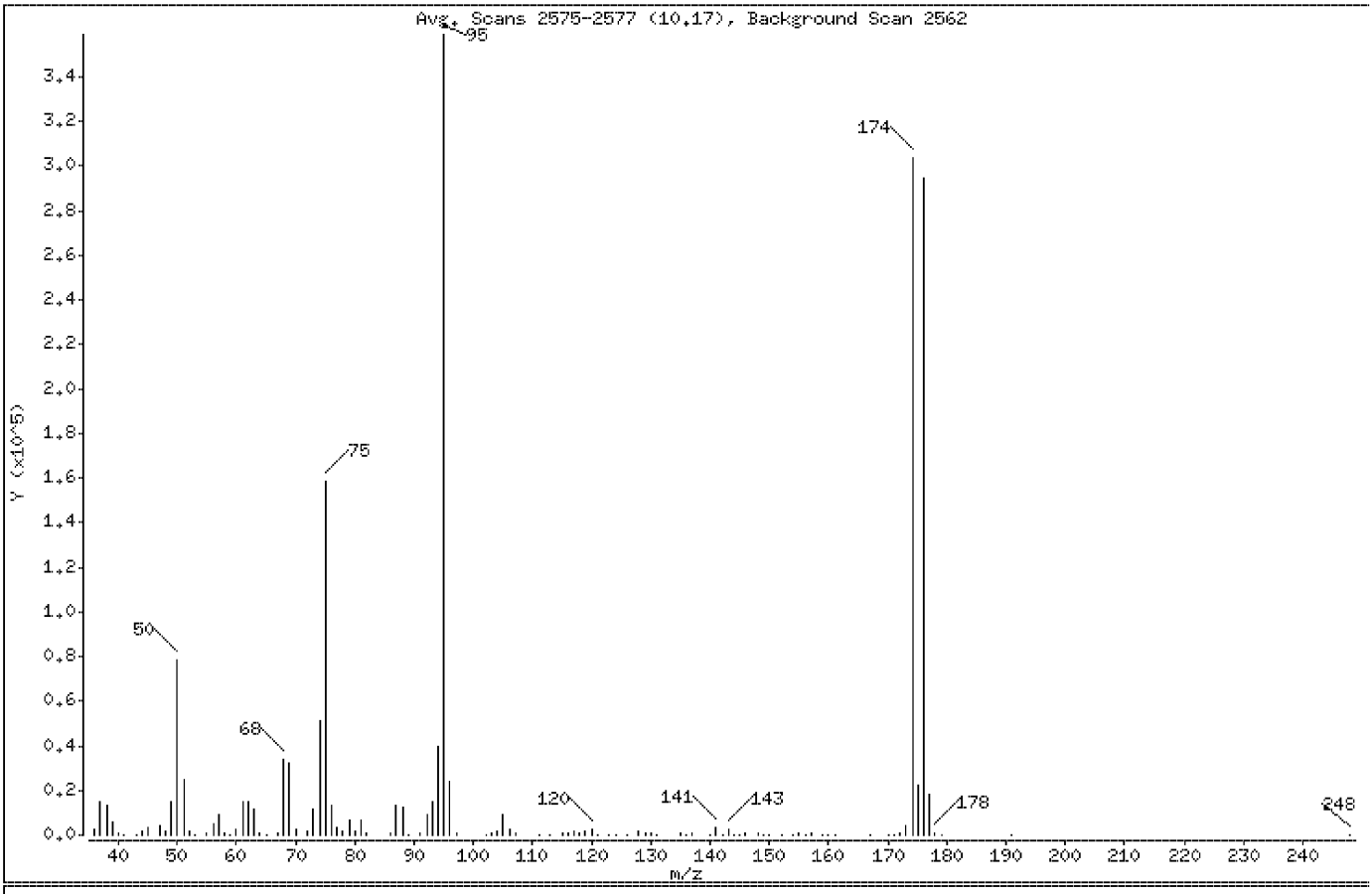
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.87
75	30.00 - 66.00% of mass 95	44.23
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	1.08 (1.27)
174	50.00 - 120.00% of mass 95	84.66
175	4.00 - 9.00% of mass 174	6.19 (7.31)
176	93.00 - 101.00% of mass 174	81.97 (96.82)
177	5.00 - 9.00% of mass 176	5.09 (6.21)

Date : 30-MAR-2017 05:04

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 08841BFB.D
Spectrum: Avg. Scans 2575-2577 (10,17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2795	68.00	34072	105.00	9401	146.00	592
37.00	14682	69.00	32152	106.00	2256	148.00	838
38.00	13593	70.00	2449	107.00	444	149.00	293
39.00	5641	72.00	1384	111.00	302	150.00	210
40.00	540	73.00	11776	113.00	224	152.00	125
41.00	296	74.00	50784	115.00	555	154.00	84
43.00	94	75.00	158720	116.00	1072	155.00	968
44.00	1423	76.00	13207	117.00	1987	156.00	115
45.00	3280	77.00	3436	118.00	816	157.00	855
47.00	3896	78.00	1659	119.00	1427	159.00	309
48.00	1958	79.00	6807	120.00	2109	160.00	148
49.00	14454	80.00	1957	121.00	200	161.00	359
50.00	78472	81.00	6566	123.00	121	167.00	95
51.00	25072	82.00	926	124.00	124	170.00	295
52.00	1365	86.00	453	126.00	86	171.00	408
53.00	265	87.00	13475	128.00	1485	172.00	487
55.00	1029	88.00	12421	129.00	605	173.00	3864
56.00	4562	89.00	89	130.00	837	174.00	303808
57.00	9186	91.00	1149	131.00	248	175.00	22216
58.00	536	92.00	8725	135.00	726	176.00	294144
59.00	136	93.00	14621	136.00	202	177.00	18272
60.00	2447	94.00	39664	137.00	586	178.00	582
61.00	14678	95.00	358848	140.00	320	179.00	88
62.00	14584	96.00	23752	141.00	3327	191.00	87
63.00	11530	97.00	555	142.00	324	248.00	124
64.00	920	102.00	118	143.00	2700		
65.00	208	103.00	1063	144.00	294		
67.00	801	104.00	1331	145.00	401		

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08931BFB.D

Date : 31-MAR-2017 03:03

Client ID: BFB

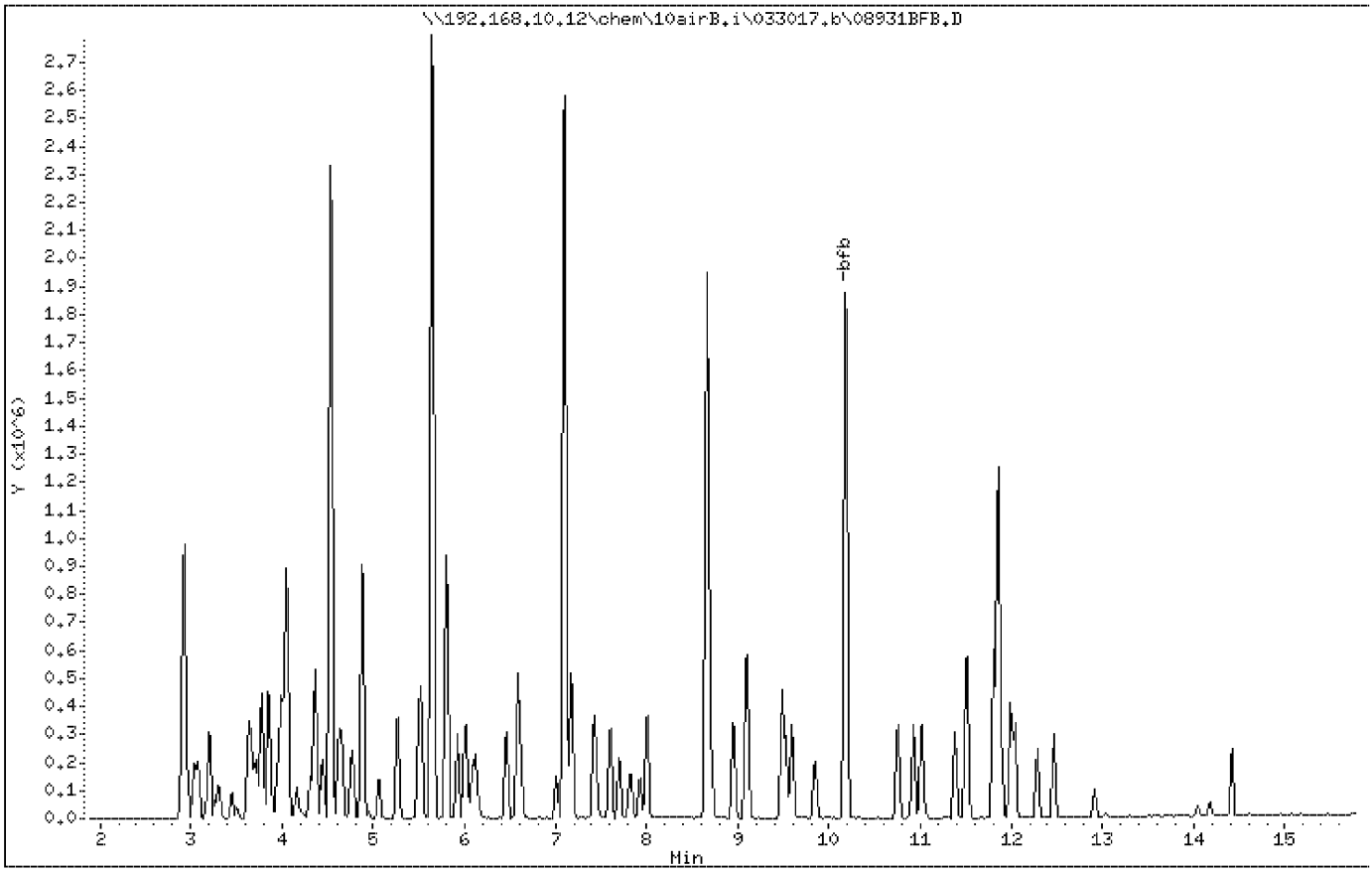
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08931BFB.D

Date : 31-MAR-2017 03:03

Client ID: BFB

Instrument: 10airB.i

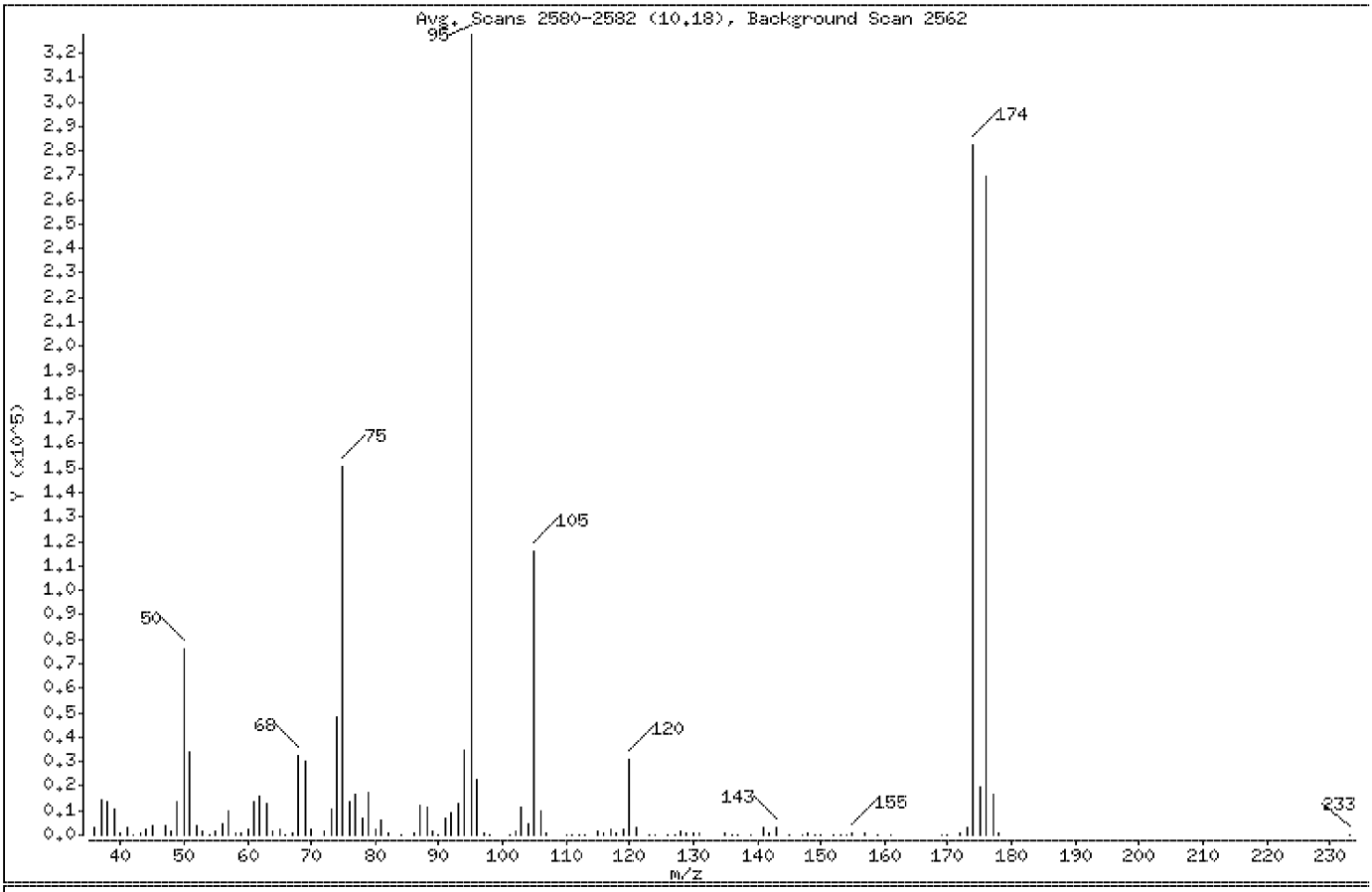
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.11
75	30.00 - 66.00% of mass 95	46.06
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.82 (0.95)
174	50.00 - 120.00% of mass 95	86.24
175	4.00 - 9.00% of mass 174	5.94 (6.88)
176	93.00 - 101.00% of mass 174	82.20 (95.31)
177	5.00 - 9.00% of mass 176	5.13 (6.24)

Date : 31-MAR-2017 03:03

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 08931BFB.D
Spectrum: Avg. Scans 2580-2582 (10,18), Background Scan 2562
Location of Maximum: 95.00
Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2701	66.00	229	98.00	109	137.00	359
37.00	14583	67.00	693	101.00	310	139.00	194
38.00	13831	68.00	32736	102.00	1588	141.00	2811
39.00	10707	69.00	29832	103.00	11644	142.00	430
40.00	628	70.00	2085	104.00	4759	143.00	2875
41.00	2788	72.00	1522	105.00	115992	145.00	365
42.00	257	73.00	10604	106.00	9807	147.00	91
43.00	478	74.00	48512	107.00	528	148.00	462
44.00	2271	75.00	150848	110.00	99	149.00	211
45.00	3611	76.00	13584	111.00	162	150.00	37
47.00	3968	77.00	16712	112.00	262	152.00	234
48.00	1474	78.00	6812	113.00	145	153.00	90
49.00	13519	79.00	17328	115.00	1174	154.00	115
50.00	75672	80.00	2473	116.00	1069	155.00	719
51.00	33552	81.00	5951	117.00	2237	157.00	575
52.00	3500	82.00	972	118.00	921	159.00	317
53.00	1378	84.00	133	119.00	2099	161.00	303
54.00	100	86.00	503	120.00	30720	169.00	111
55.00	1160	87.00	11893	121.00	2712	170.00	132
56.00	4393	88.00	11610	123.00	87	172.00	699
57.00	10038	89.00	1184	124.00	201	173.00	2670
58.00	859	90.00	225	126.00	90	174.00	282432
59.00	497	91.00	6450	127.00	93	175.00	19440
60.00	2502	92.00	9127	128.00	1361	176.00	269184
61.00	13349	93.00	12522	129.00	545	177.00	16808
62.00	15694	94.00	34512	130.00	1006	178.00	453
63.00	12767	95.00	327488	131.00	633	233.00	113
64.00	1535	96.00	22424	135.00	729		
65.00	2504	97.00	658	136.00	128		

Data File: \\192.168.10.12\chem\10airB.i\033117.b\09001BFB.D

Date : 31-MAR-2017 15:14

Client ID: BFB

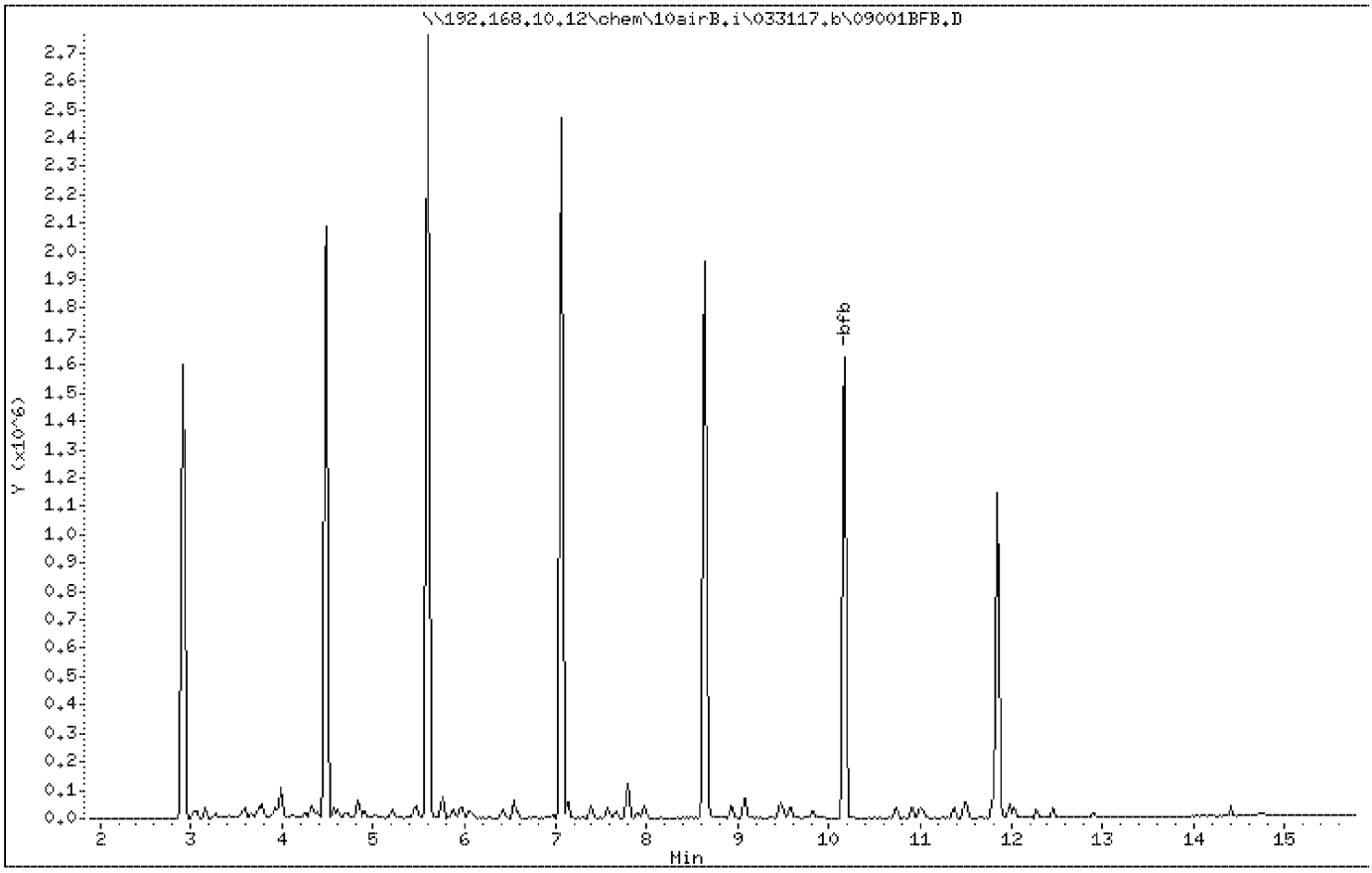
Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\033117.b\09001BFB.D

Date : 31-MAR-2017 15:14

Client ID: BFB

Instrument: 10airB.i

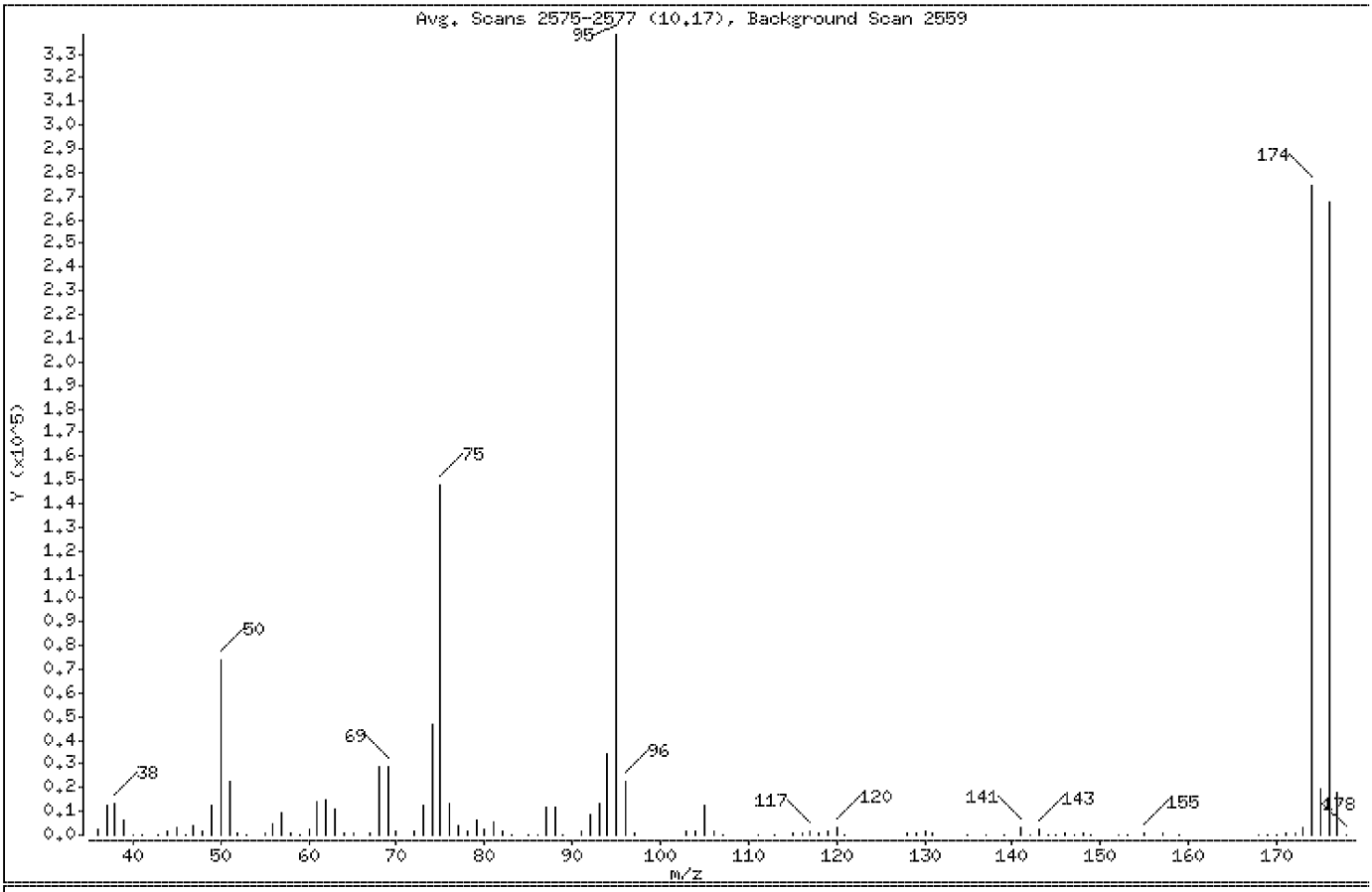
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.92
75	30.00 - 66.00% of mass 95	43.75
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.97 (1.19)
174	50.00 - 120.00% of mass 95	81.14
175	4.00 - 9.00% of mass 174	5.85 (7.21)
176	93.00 - 101.00% of mass 174	79.13 (97.53)
177	5.00 - 9.00% of mass 176	5.26 (6.65)

Date : 31-MAR-2017 15:14

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 09001BFB.D
Spectrum: Avg. Scans 2575-2577 (10.17), Background Scan 2559
Location of Maximum: 95.00
Number of points: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2537	64.00	988	94.00	34280	142.00	316
37.00	12707	65.00	654	95.00	338240	143.00	2678
38.00	13039	67.00	693	96.00	22304	144.00	107
39.00	5939	68.00	28648	97.00	675	145.00	189
40.00	238	69.00	28696	103.00	1361	146.00	496
41.00	279	70.00	1662	104.00	1847	147.00	151
43.00	118	72.00	1780	105.00	12765	148.00	839
44.00	1666	73.00	12624	106.00	1890	149.00	249
45.00	3226	74.00	46496	107.00	325	152.00	89
46.00	239	75.00	147968	111.00	229	153.00	373
47.00	4129	76.00	13104	113.00	85	155.00	703
48.00	1871	77.00	3897	115.00	422	157.00	495
49.00	12694	78.00	1769	116.00	687	159.00	369
50.00	74136	79.00	6577	117.00	1801	168.00	123
51.00	22496	80.00	2187	118.00	838	169.00	149
52.00	954	81.00	5670	119.00	1475	170.00	225
53.00	121	82.00	1337	120.00	3431	171.00	543
55.00	875	83.00	167	121.00	139	172.00	742
56.00	4303	85.00	84	128.00	1124	173.00	3274
57.00	9326	86.00	173	129.00	515	174.00	274432
58.00	570	87.00	11766	130.00	1228	175.00	19792
59.00	261	88.00	11623	131.00	390	176.00	267648
60.00	2556	89.00	244	135.00	261	177.00	17792
61.00	14272	91.00	1363	137.00	274	178.00	300
62.00	15037	92.00	8710	139.00	87		
63.00	10841	93.00	12852	141.00	2725		

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09101BFB.D

Date : 01-APR-2017 07:03

Client ID: BFB

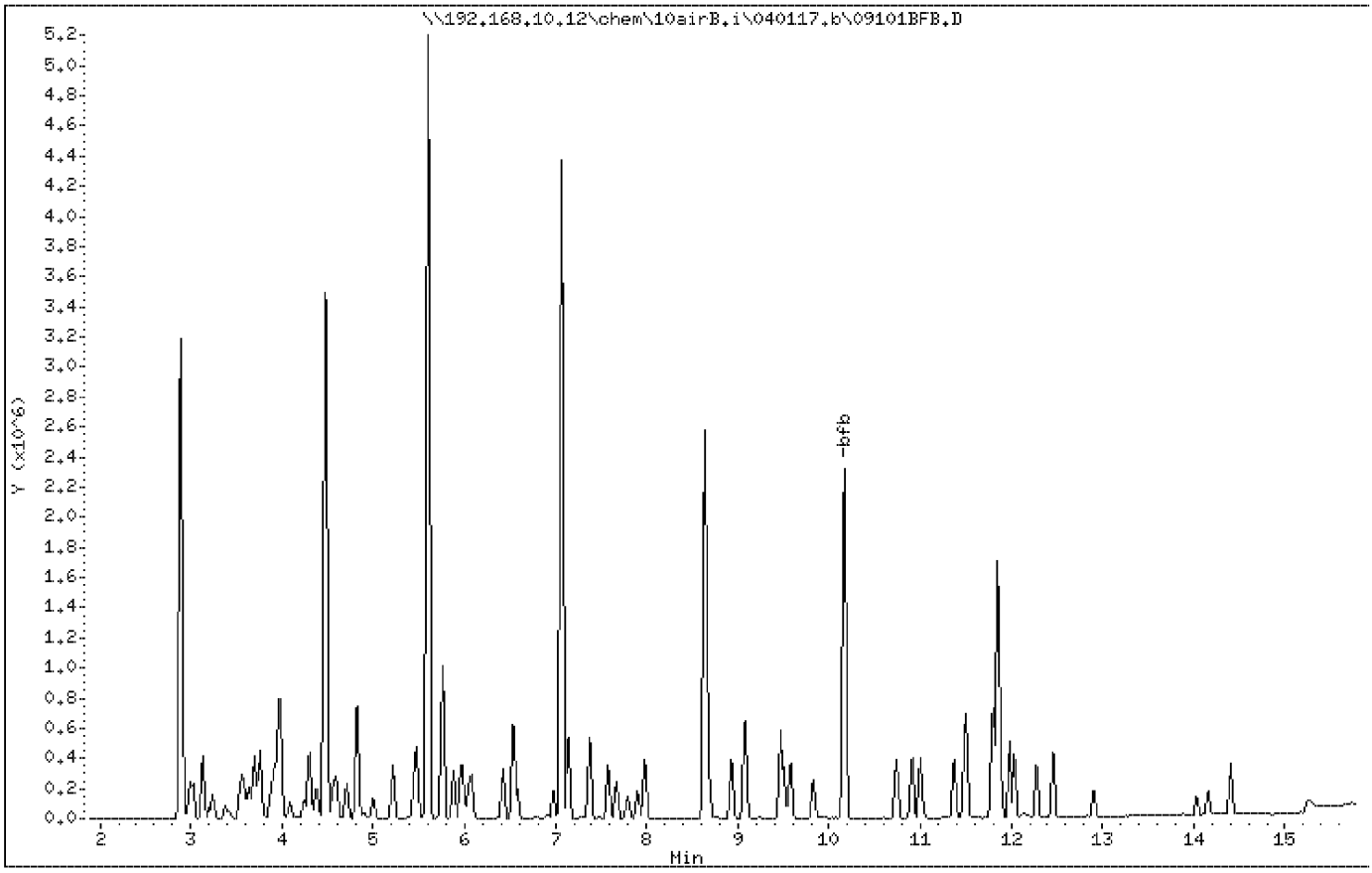
Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040117.b\09101BFB.D

Date : 01-APR-2017 07:03

Client ID: BFB

Instrument: 10airB.i

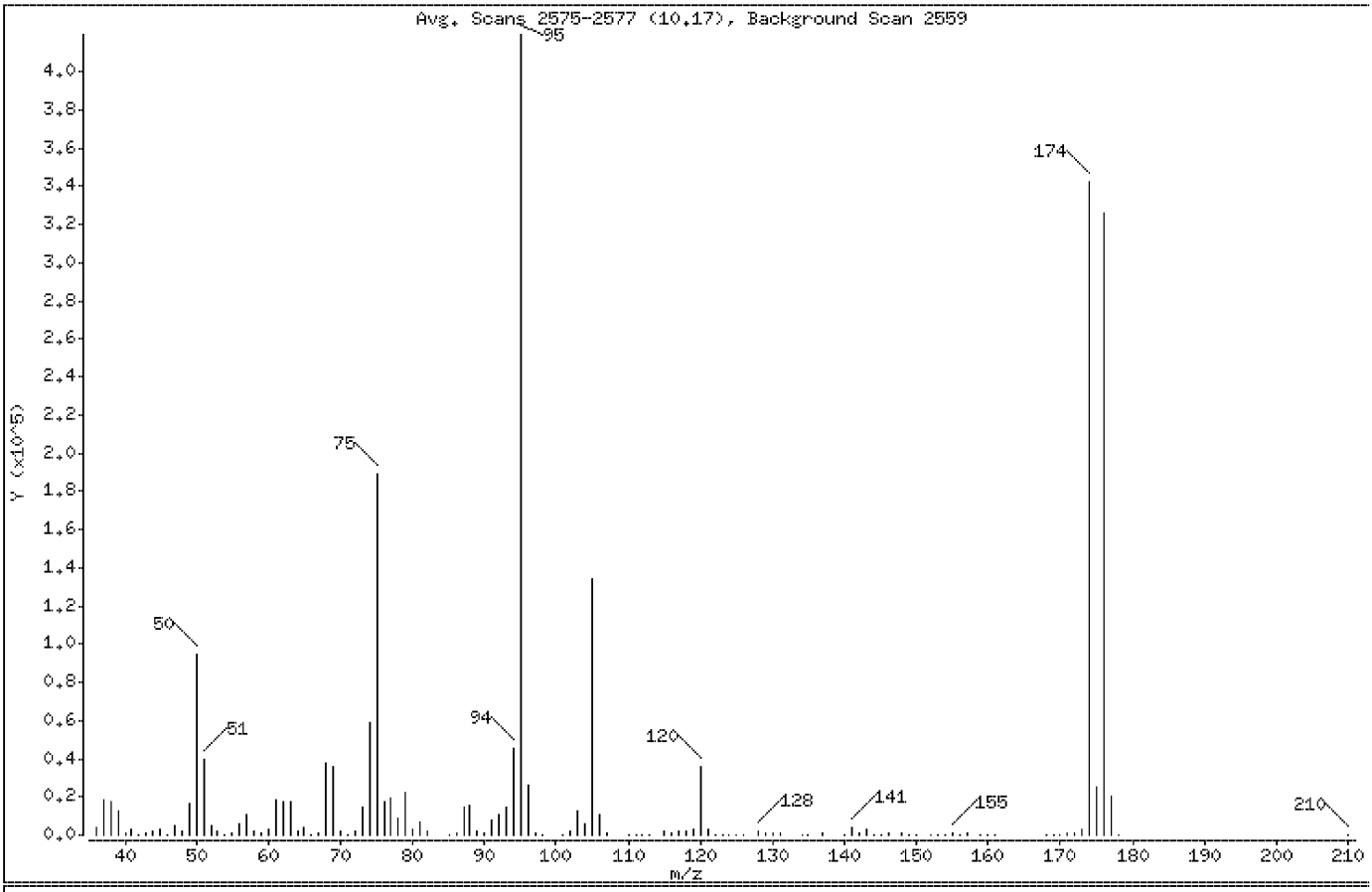
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.54
75	30.00 - 66.00% of mass 95	44.94
96	5.00 - 9.00% of mass 95	6.30
173	Less than 2.00% of mass 174	0.74 (0.91)
174	50.00 - 120.00% of mass 95	81.59
175	4.00 - 9.00% of mass 174	5.88 (7.21)
176	93.00 - 101.00% of mass 174	77.79 (95.34)
177	5.00 - 9.00% of mass 176	4.89 (6.29)

Date : 01-APR-2017 07:03

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 09101BFB.D
Spectrum: Avg. Scans 2575-2577 (10.17), Background Scan 2559
Location of Maximum: 95.00
Number of points: 122

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3438	67.00	1063	102.00	2058	142.00	524
37.00	18760	68.00	37864	103.00	12963	143.00	3368
38.00	17432	69.00	35736	104.00	5871	144.00	104
39.00	12320	70.00	2105	105.00	133952	145.00	235
40.00	658	71.00	266	106.00	10128	146.00	718
41.00	3031	72.00	1529	107.00	622	148.00	767
42.00	380	73.00	14114	110.00	212	149.00	260
43.00	542	74.00	58984	111.00	346	150.00	350
44.00	2397	75.00	188544	112.00	163	152.00	305
45.00	2891	76.00	17264	113.00	388	153.00	318
46.00	98	77.00	19352	115.00	2022	154.00	129
47.00	4633	78.00	8312	116.00	1049	155.00	893
48.00	2053	79.00	22168	117.00	2271	156.00	84
49.00	16251	80.00	2736	118.00	1528	157.00	627
50.00	94568	81.00	7055	119.00	2673	159.00	293
51.00	39960	82.00	1553	120.00	35544	160.00	87
52.00	4464	85.00	253	121.00	3226	161.00	473
53.00	1970	86.00	695	122.00	143	168.00	205
54.00	144	87.00	14329	123.00	379	169.00	109
55.00	1076	88.00	15416	124.00	224	170.00	283
56.00	5823	89.00	1449	125.00	148	171.00	912
57.00	10522	90.00	519	126.00	84	172.00	806
58.00	1552	91.00	7696	128.00	1514	173.00	3119
59.00	882	92.00	10948	129.00	694	174.00	342272
60.00	3108	93.00	14654	130.00	1218	175.00	24672
61.00	17992	94.00	45584	131.00	561	176.00	326336
62.00	16888	95.00	419520	134.00	112	177.00	20512
63.00	17488	96.00	26432	135.00	423	178.00	342
64.00	1608	97.00	790	137.00	587	210.00	95
65.00	3793	98.00	145	140.00	308		
66.00	257	101.00	424	141.00	3932		

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09201BFB.D

Date : 02-APR-2017 08:27

Client ID: BFB

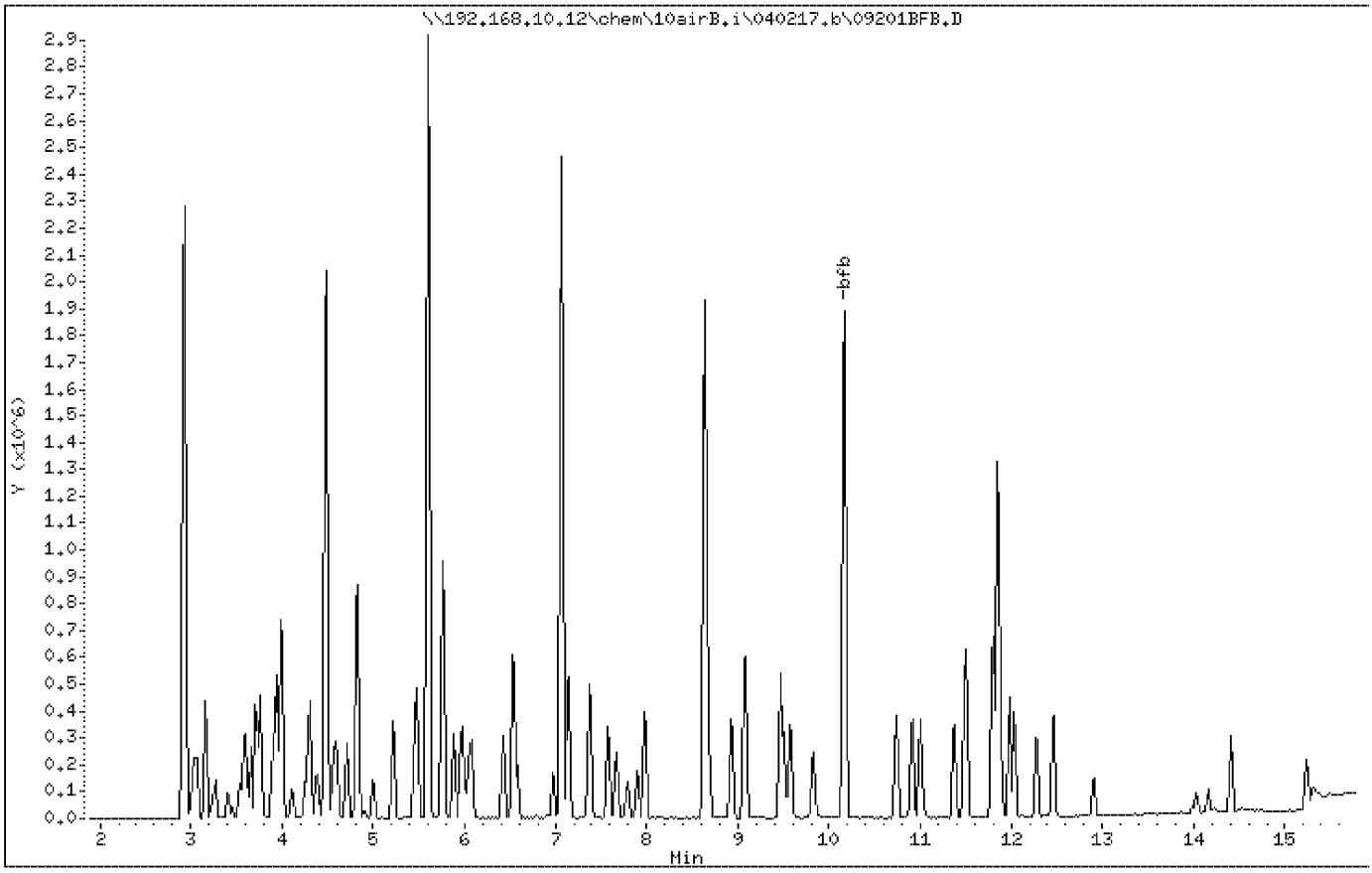
Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040217.b\09201BFB.D

Date : 02-APR-2017 08:27

Client ID: BFB

Instrument: 10airB.i

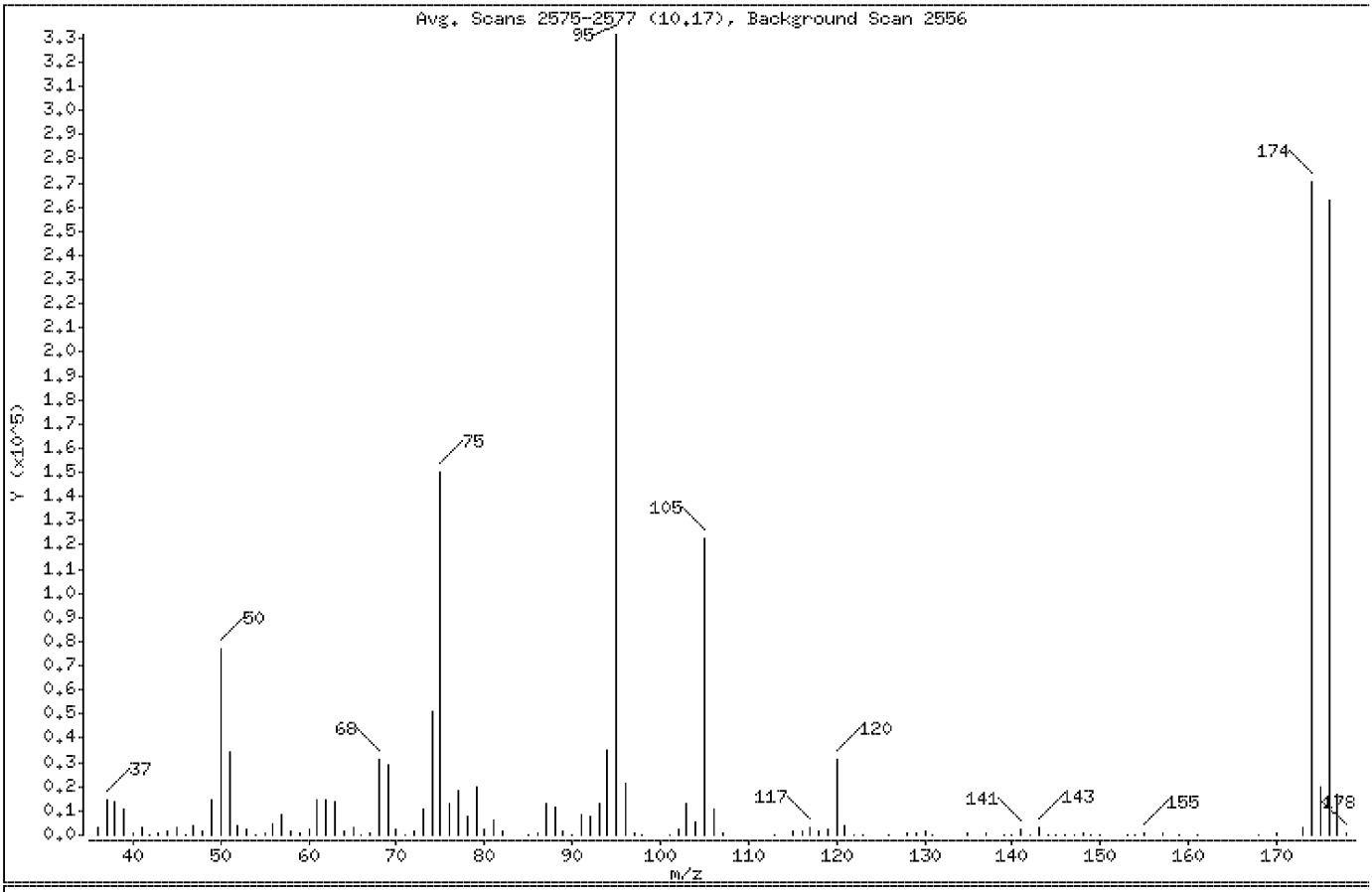
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.27
75	30.00 - 66.00% of mass 95	45.31
96	5.00 - 9.00% of mass 95	6.44
173	Less than 2.00% of mass 174	0.86 (1.05)
174	50.00 - 120.00% of mass 95	81.71
175	4.00 - 9.00% of mass 174	6.01 (7.36)
176	93.00 - 101.00% of mass 174	79.22 (96.95)
177	5.00 - 9.00% of mass 176	5.00 (6.31)

Date : 02-APR-2017 08:27

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 09201BFB.D
Spectrum: Avg. Scans 2575-2577 (10,17), Background Scan 2556
Location of Maximum: 95.00
Number of points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3070	64.00	1839	94.00	35032	137.00	500
37.00	14244	65.00	3095	95.00	331392	139.00	140
38.00	13986	66.00	130	96.00	21352	140.00	181
39.00	10835	67.00	953	97.00	728	141.00	2549
40.00	414	68.00	31608	98.00	367	142.00	145
41.00	2746	69.00	28832	101.00	343	143.00	3006
42.00	279	70.00	2337	102.00	1936	144.00	335
43.00	795	71.00	181	103.00	12717	145.00	211
44.00	1362	72.00	1394	104.00	4957	146.00	357
45.00	2939	73.00	10801	105.00	122376	147.00	145
46.00	134	74.00	51344	106.00	10958	148.00	695
47.00	3777	75.00	150144	107.00	767	149.00	118
48.00	1817	76.00	13117	113.00	118	150.00	290
49.00	14849	77.00	18184	115.00	1631	153.00	85
50.00	77128	78.00	7719	116.00	1251	154.00	90
51.00	34608	79.00	19432	117.00	2767	155.00	881
52.00	4060	80.00	2199	118.00	1330	157.00	802
53.00	1925	81.00	6161	119.00	2283	159.00	237
54.00	225	82.00	1181	120.00	31048	161.00	304
55.00	688	85.00	100	121.00	3464	168.00	86
56.00	4843	86.00	657	122.00	132	170.00	562
57.00	8263	87.00	12600	123.00	85	173.00	2855
58.00	1277	88.00	11497	126.00	146	174.00	270784
59.00	757	89.00	1201	128.00	1132	175.00	19920
60.00	2403	90.00	301	129.00	645	176.00	262528
61.00	14273	91.00	8263	130.00	1346	177.00	16576
62.00	14405	92.00	7497	131.00	324	178.00	579
63.00	13971	93.00	13151	135.00	557		

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09301BFB.D

Date : 03-APR-2017 09:44

Client ID: BFB

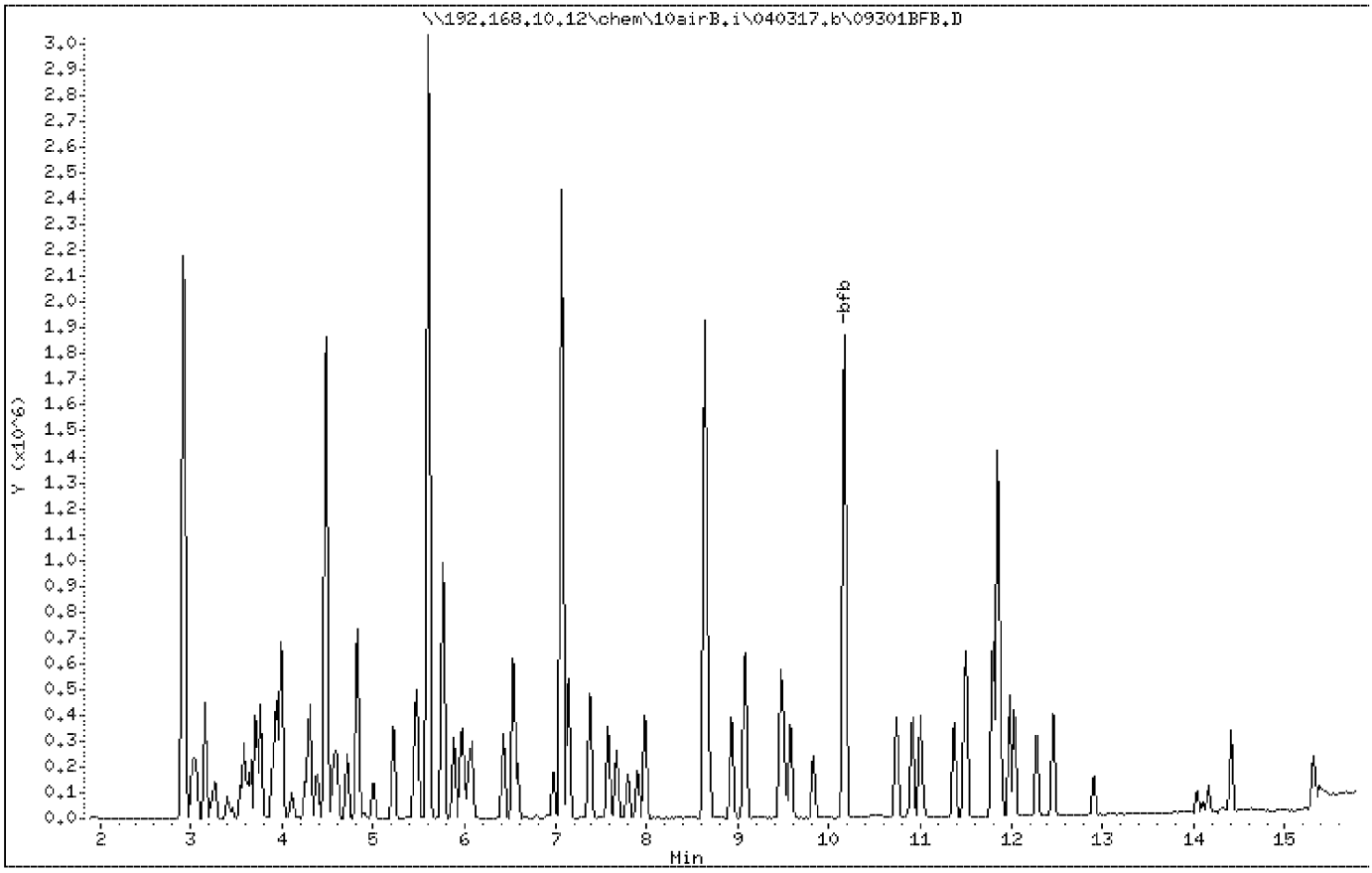
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040317.b\09301BFB.D

Date : 03-APR-2017 09:44

Client ID: BFB

Instrument: 10airB.i

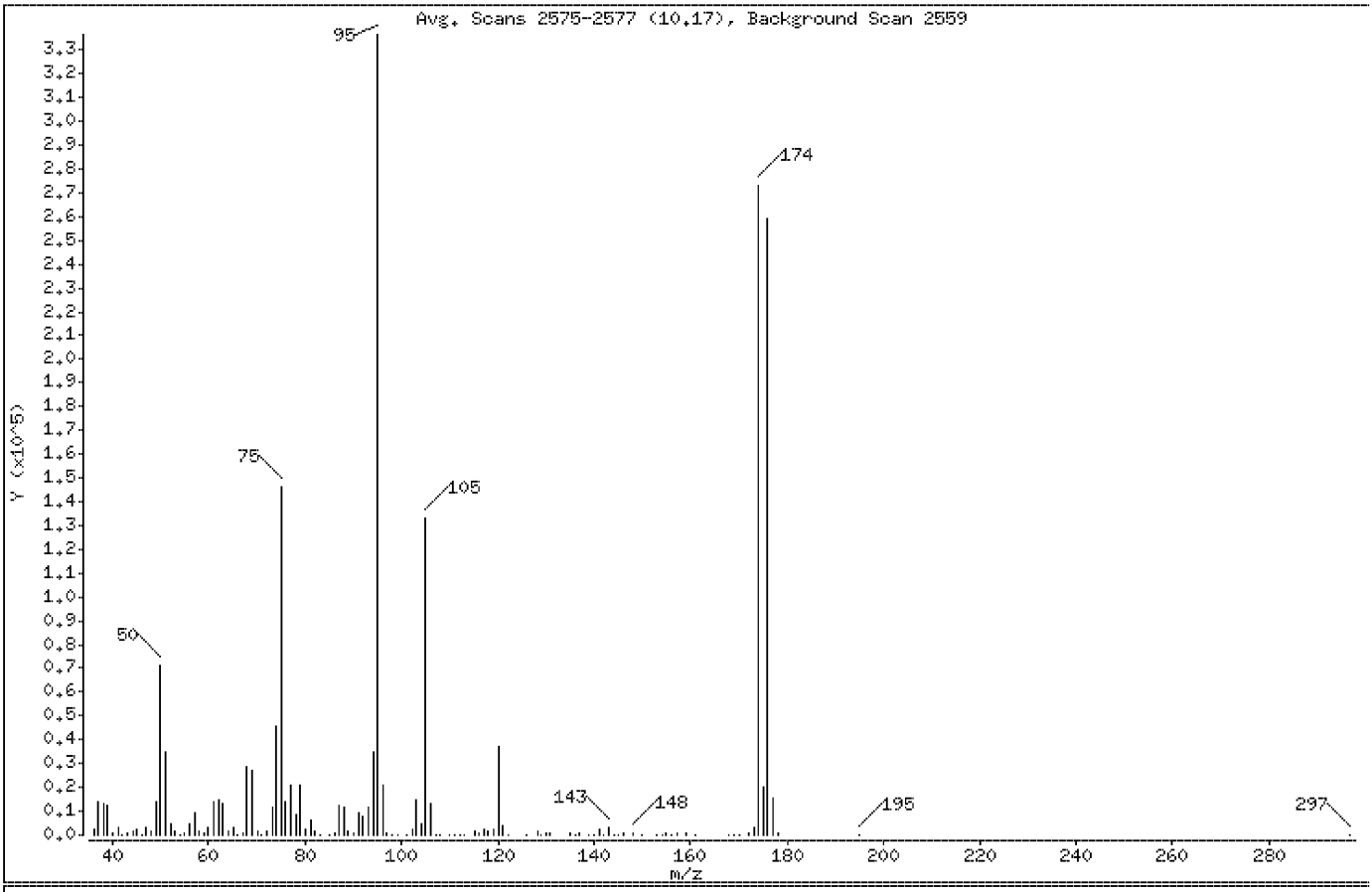
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.24
75	30.00 - 66.00% of mass 95	43.51
96	5.00 - 9.00% of mass 95	6.30
173	Less than 2.00% of mass 174	1.01 (1.25)
174	50.00 - 120.00% of mass 95	81.24
175	4.00 - 9.00% of mass 174	6.03 (7.42)
176	93.00 - 101.00% of mass 174	77.00 (94.78)
177	5.00 - 9.00% of mass 176	4.66 (6.05)

Date : 03-APR-2017 09:44

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 09301BFB.D
Spectrum: Avg. Scans 2575-2577 (10,17), Background Scan 2559
Location of Maximum: 95.00
Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2578	67.00	857	99.00	103	141.00	2654
37.00	14126	68.00	28304	101.00	285	142.00	264
38.00	13210	69.00	27192	102.00	2122	143.00	2722
39.00	12387	70.00	1770	103.00	14598	144.00	204
40.00	401	71.00	123	104.00	4701	145.00	195
41.00	3274	72.00	1543	105.00	133376	146.00	836
42.00	237	73.00	11495	106.00	13309	148.00	859
43.00	853	74.00	45888	107.00	370	150.00	229
44.00	1472	75.00	146368	108.00	95	153.00	310
45.00	2688	76.00	13656	110.00	115	154.00	224
46.00	90	77.00	20816	111.00	364	155.00	488
47.00	3194	78.00	8587	112.00	109	156.00	103
48.00	1783	79.00	20744	113.00	190	157.00	559
49.00	13697	80.00	2207	115.00	1926	159.00	508
50.00	71456	81.00	5908	116.00	1103	161.00	299
51.00	34952	82.00	1296	117.00	2538	168.00	110
52.00	4321	83.00	88	118.00	1260	169.00	102
53.00	1861	85.00	90	119.00	1988	170.00	220
54.00	84	86.00	674	120.00	37448	172.00	777
55.00	1018	87.00	12702	121.00	3648	173.00	3411
56.00	4415	88.00	11301	122.00	243	174.00	273280
57.00	9533	89.00	1828	126.00	341	175.00	20272
58.00	1335	90.00	608	128.00	1185	176.00	259008
59.00	817	91.00	8973	129.00	382	177.00	15670
60.00	2867	92.00	7364	130.00	965	178.00	439
61.00	13590	93.00	11833	131.00	503	195.00	100
62.00	14897	94.00	35088	135.00	515	297.00	83
63.00	12957	95.00	336384	136.00	97		
64.00	1389	96.00	21192	137.00	426		
65.00	3154	97.00	734	139.00	99		
66.00	380	98.00	84	140.00	92		

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09401BFB.D

Date : 04-APR-2017 08:39

Client ID: BFB

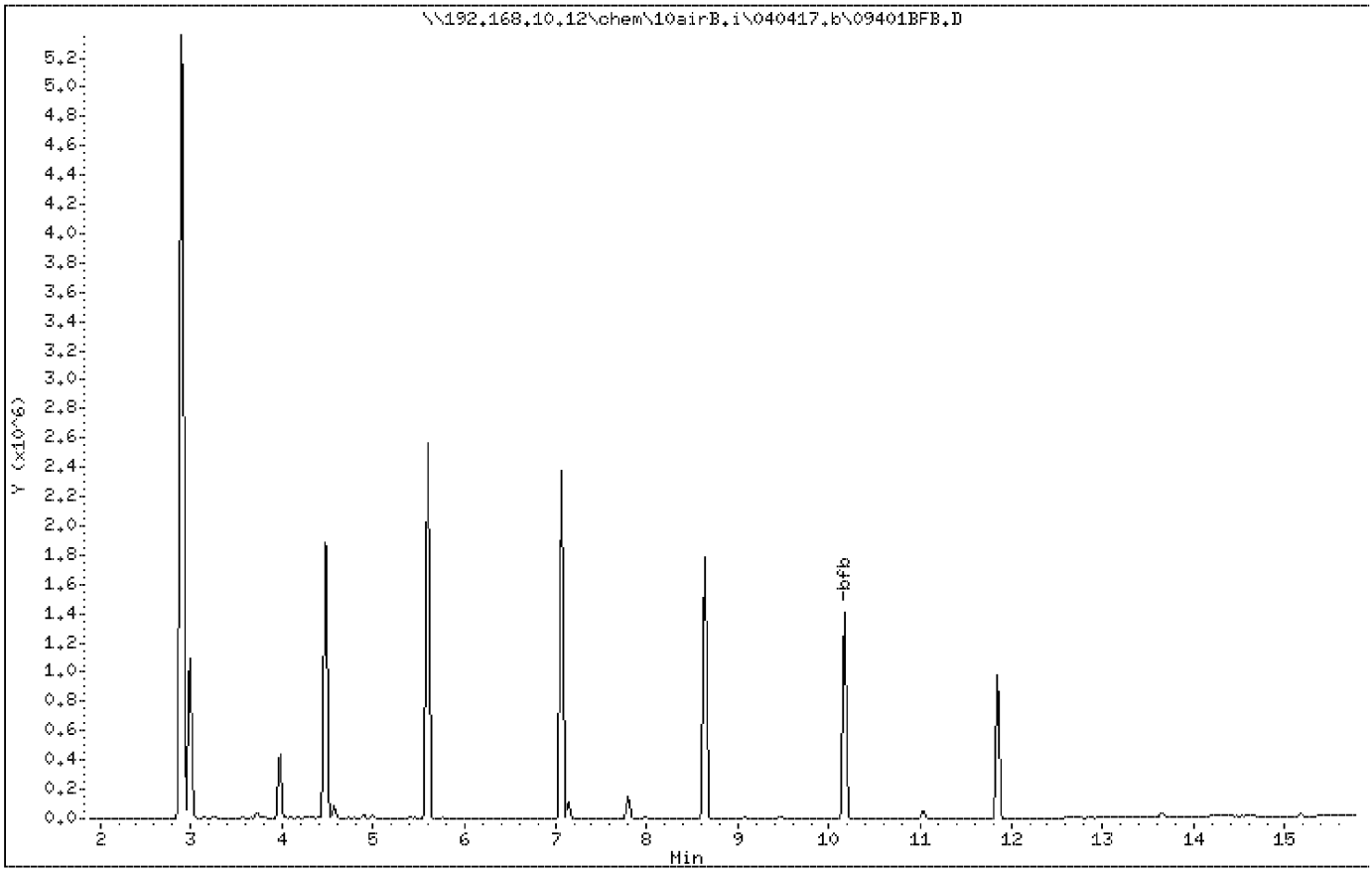
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040417.b\09401BFB.D

Date : 04-APR-2017 08:39

Client ID: BFB

Instrument: 10airB.i

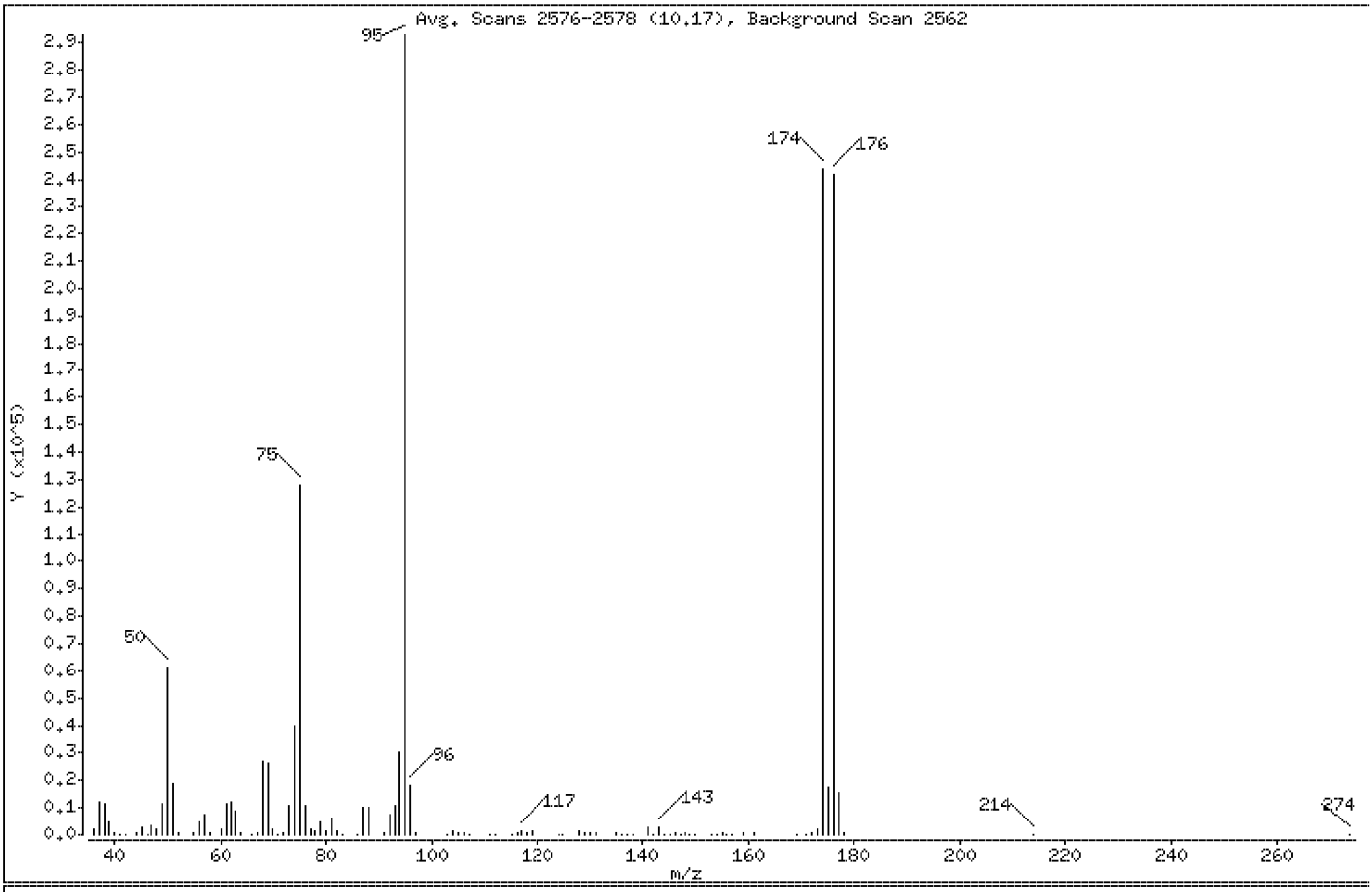
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	20.99
75	30.00 - 66.00% of mass 95	43.59
96	5.00 - 9.00% of mass 95	6.31
173	Less than 2.00% of mass 174	0.74 (0.89)
174	50.00 - 120.00% of mass 95	83.26
175	4.00 - 9.00% of mass 174	6.02 (7.22)
176	93.00 - 101.00% of mass 174	82.45 (99.03)
177	5.00 - 9.00% of mass 176	5.25 (6.37)

Date : 04-APR-2017 08:39

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 09401BFB.D
Spectrum: Avg. Scans 2576-2578 (10.17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2122	67.00	507	97.00	375	144.00	194
37.00	12152	68.00	26640	103.00	130	145.00	224
38.00	11553	69.00	26016	104.00	1047	146.00	683
39.00	4872	70.00	1729	105.00	452	147.00	90
40.00	357	71.00	131	106.00	866	148.00	648
41.00	216	72.00	940	107.00	278	149.00	170
42.00	109	73.00	10861	111.00	129	150.00	121
44.00	922	74.00	39760	112.00	183	153.00	164
45.00	2385	75.00	127648	115.00	121	154.00	214
46.00	96	76.00	10854	116.00	727	155.00	556
47.00	3613	77.00	1724	117.00	1587	156.00	88
48.00	1810	78.00	1115	118.00	713	157.00	174
49.00	11683	79.00	4591	119.00	1276	159.00	373
50.00	61480	80.00	1592	124.00	96	161.00	508
51.00	18792	81.00	5934	125.00	104	169.00	98
52.00	556	82.00	1066	128.00	1250	171.00	145
55.00	782	83.00	86	129.00	568	172.00	762
56.00	4485	86.00	153	130.00	885	173.00	2180
57.00	7168	87.00	10269	131.00	471	174.00	243840
58.00	490	88.00	9925	135.00	357	175.00	17616
60.00	2100	91.00	686	136.00	84	176.00	241472
61.00	11430	92.00	7324	137.00	236	177.00	15384
62.00	12158	93.00	11082	138.00	107	178.00	375
63.00	8508	94.00	30016	141.00	2519	214.00	101
64.00	914	95.00	292864	142.00	304	274.00	117
66.00	85	96.00	18472	143.00	2545		

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10381335001	**VP-102_4.5_20170306**	TO-15	465793		
10381335002	**L15-VP-7_30_20170306**	TO-15	465793		
10381335003	**VP-107_5_20170306**	TO-15	465793		
10381335004	**VP-107_13_20170306**	TO-15	465981		
10381335005	**VP-107_20_20170306**	TO-15	465981		
10381335006	**VP-107_33.5_20170306**	TO-15	465981		
10381335007	**VP-107_44_20170306**	TO-15	466603		
10381335008	**VP-107_60_20170306**	TO-15	465981		
10381335009	**VP-107_74_20170306**	TO-15	465981		
10381335010	**VP-3_5_20170307**	TO-15	465981		
10381335011	**VP-3_10_20170307**	TO-15	466603		
10381335012	**VP-3_20_20170307**	TO-15	465981		
10381335013	**VP-3D_40_20170307**	TO-15	466603		
10381335014	**VP-3D_51_20170307**	TO-15	465981		
10381335015	**VP-3D_61_20170307**	TO-15	465981		
10381335016	**VP-3D_73_20170307**	TO-15	465981		
10381335017	**VP-108_5_20170307**	TO-15	465981		
10381335018	**VP-108_10_20170307**	TO-15	465981		
10381335019	**VP-108_20_20170307**	TO-15	465981		
10381335020	**VP-108_29.5_20170307**	TO-15	466603		
10381335021	**VP-108D_50.5_20170307**	TO-15	466636		
10381335022	**VP-108D_60_20170307**	TO-15	465981		
10381335023	**VP-108D_70_20170307**	TO-15	465981		
10381335024	**VP-108D_50.5_20170307**	TO-15	466636		
10381335025	**VP-3D_73_20170307DUP**	TO-15	465981		
10381335026	**VP-3_5_20170307DUP**	TO-15	465981		
10381335027	**VP-3_30_20170307**	TO-15	465981		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

QC Batch: 465793 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381335001, 10381335002, 10381335003

METHOD BLANK: 2546082 Matrix: Air
Associated Lab Samples: 10381335001, 10381335002, 10381335003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/27/17 19:49	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/27/17 19:49	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/27/17 19:49	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/27/17 19:49	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/27/17 19:49	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/27/17 19:49	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/27/17 19:49	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/27/17 19:49	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/27/17 19:49	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/27/17 19:49	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/27/17 19:49	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/27/17 19:49	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/27/17 19:49	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/27/17 19:49	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/27/17 19:49	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/27/17 19:49	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/27/17 19:49	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/27/17 19:49	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/27/17 19:49	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/27/17 19:49	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/27/17 19:49	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/27/17 19:49	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/27/17 19:49	
Acetone	ug/m3	<0.83	2.4	0.83	03/27/17 19:49	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/27/17 19:49	
Benzene	ug/m3	<0.12	0.32	0.12	03/27/17 19:49	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/27/17 19:49	
Bromoform	ug/m3	<0.90	2.1	0.90	03/27/17 19:49	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/27/17 19:49	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/27/17 19:49	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/27/17 19:49	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/27/17 19:49	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/27/17 19:49	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/27/17 19:49	
Chloroform	ug/m3	<0.19	0.50	0.19	03/27/17 19:49	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/27/17 19:49	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/27/17 19:49	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/27/17 19:49	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/27/17 19:49	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/27/17 19:49	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/27/17 19:49	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

METHOD BLANK: 2546082 Matrix: Air
Associated Lab Samples: 10381335001, 10381335002, 10381335003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/27/17 19:49	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/27/17 19:49	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/27/17 19:49	
Freon 123	ug/m3	<3.2	3.2	3.2	03/27/17 19:49	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/27/17 19:49	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/27/17 19:49	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/27/17 19:49	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/27/17 19:49	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/27/17 19:49	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/27/17 19:49	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/27/17 19:49	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/27/17 19:49	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/27/17 19:49	
Styrene	ug/m3	<0.19	0.87	0.19	03/27/17 19:49	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/27/17 19:49	
Toluene	ug/m3	<0.15	0.77	0.15	03/27/17 19:49	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/27/17 19:49	
trans-1,3-Dichloropropene	ug/m3	<0.26	2.3	0.26	03/27/17 19:49	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/27/17 19:49	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/27/17 19:49	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/27/17 19:49	

LABORATORY CONTROL SAMPLE: 2546083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58.2	63.2	108	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	74.7	84.1	113	70-130	
1,1,2-Trichloroethane	ug/m3	59.3	64.9	109	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.8	89.2	109	70-130	
1,1-Dichloroethane	ug/m3	43.6	47.8	110	70-130	
1,1-Dichloroethene	ug/m3	42.7	45.9	108	70-130	
1,2,4-Trichlorobenzene	ug/m3	74.7	114	152	60-150	L1,SS
1,2,4-Trimethylbenzene	ug/m3	51.5	60.5	118	70-136	
1,2-Dibromo-3-chloropropane	ug/m3		27.4			2M
1,2-Dibromoethane (EDB)	ug/m3	83.6	86.3	103	70-130	
1,2-Dichlorobenzene	ug/m3	63.6	71.1	112	70-139	
1,2-Dichloroethane	ug/m3	44	46.8	106	70-130	
1,2-Dichloropropane	ug/m3	50.7	55.7	110	70-131	
1,3,5-Trimethylbenzene	ug/m3	51.5	58.2	113	70-133	
1,3-Butadiene	ug/m3	23.4	26.6	114	70-130	
1,3-Dichlorobenzene	ug/m3	61.7	68.5	111	70-144	
1,4-Dichlorobenzene	ug/m3	63.6	71.5	112	70-139	
1,4-Dioxane (p-Dioxane)	ug/m3	38.8	43.7	113	65-149	
2-Butanone (MEK)	ug/m3	32.4	31.7	98	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

LABORATORY CONTROL SAMPLE: 2546083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	44.6	56.5	127	70-138	
2-Propanol	ug/m3	25	33.6	135	70-130	L1
4-Ethyltoluene	ug/m3	49.5	58.3	118	70-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.6	54.8	123	70-130	
Acetone	ug/m3	25.1	31.1	124	64-130	
Allyl chloride	ug/m3	35.3	43.7	124	60-147	
Benzene	ug/m3	34.7	37.3	107	70-130	
Bromodichloromethane	ug/m3	72.2	82.8	115	70-134	
Bromoform	ug/m3	116	124	107	70-150	
Bromomethane	ug/m3	39.1	44.3	113	70-130	
Carbon disulfide	ug/m3	33.2	41.0	123	70-134	
Carbon tetrachloride	ug/m3	68.4	60.1	88	68-150	
Chlorobenzene	ug/m3	50.1	50.6	101	70-132	
Chlorodifluoromethane	ug/m3	38.8	40.9	105	67-134	
Chloroethane	ug/m3	26.3	31.3	119	70-132	
Chloroform	ug/m3	51.1	65.4	128	70-130	
Chloromethane	ug/m3	21.4	24.3	113	70-130	
Chloropentafluoroethane	ug/m3		<3.2			3M
cis-1,2-Dichloroethene	ug/m3	43.9	46.4	106	70-133	
cis-1,3-Dichloropropene	ug/m3	51.7	56.2	109	70-137	
Cyclohexane	ug/m3	37.1	39.0	105	70-130	
Dibromochloromethane	ug/m3	97	96.9	100	70-144	
Dichlorodifluoromethane	ug/m3	52.8	53.7	102	70-130	
Dichlorotetrafluoroethane	ug/m3	69.6	80.4	115	70-130	
Ethylbenzene	ug/m3	47.7	49.0	103	70-134	
Freon 123	ug/m3		<3.2			3M
Hexachloro-1,3-butadiene	ug/m3	109	187	170	45-150	L1,SS
Isopropylbenzene (Cumene)	ug/m3	51.5	55.6	108	70-140	
m&p-Xylene	ug/m3	47.7	53.7	113	70-130	
Methyl acetate	ug/m3		5.6			3M
Methyl-tert-butyl ether	ug/m3	38.8	44.6	115	66-148	
Methylcyclohexane	ug/m3	43.7	46.4	106	70-137	
Methylene Chloride	ug/m3	39.2	46.2	118	67-133	
n-Hexane	ug/m3	38.7	40.6	105	67-132	
o-Xylene	ug/m3	47.2	48.9	103	70-130	
Styrene	ug/m3	45.5	50.5	111	70-139	
Tetrachloroethene	ug/m3	72.4	71.3	98	70-130	
Toluene	ug/m3	41.4	45.2	109	70-130	
trans-1,2-Dichloroethene	ug/m3	41.9	47.9	114	70-131	
trans-1,3-Dichloropropene	ug/m3	48.4	51.2	106	70-142	
Trichloroethene	ug/m3	57.9	63.8	110	70-130	
Trichlorofluoromethane	ug/m3	58.8	65.8	112	70-130	
Vinyl chloride	ug/m3	27	31.4	116	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

QC Batch: 465981 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381335004, 10381335005, 10381335006, 10381335008, 10381335009, 10381335010, 10381335012, 10381335014, 10381335015, 10381335016, 10381335017, 10381335018, 10381335019, 10381335022, 10381335023, 10381335025, 10381335026, 10381335027

METHOD BLANK: 2546890 Matrix: Air
Associated Lab Samples: 10381335004, 10381335005, 10381335006, 10381335008, 10381335009, 10381335010, 10381335012, 10381335014, 10381335015, 10381335016, 10381335017, 10381335018, 10381335019, 10381335022, 10381335023, 10381335025, 10381335026, 10381335027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/28/17 12:52	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/28/17 12:52	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/28/17 12:52	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/28/17 12:52	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/28/17 12:52	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/28/17 12:52	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/28/17 12:52	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/28/17 12:52	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/28/17 12:52	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/28/17 12:52	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/28/17 12:52	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/28/17 12:52	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/28/17 12:52	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/28/17 12:52	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/28/17 12:52	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/28/17 12:52	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/28/17 12:52	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/28/17 12:52	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/28/17 12:52	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/28/17 12:52	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/28/17 12:52	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/28/17 12:52	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/28/17 12:52	
Acetone	ug/m3	<0.83	2.4	0.83	03/28/17 12:52	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/28/17 12:52	
Benzene	ug/m3	<0.12	0.32	0.12	03/28/17 12:52	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/28/17 12:52	
Bromoform	ug/m3	<0.90	2.1	0.90	03/28/17 12:52	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/28/17 12:52	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/28/17 12:52	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/28/17 12:52	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/28/17 12:52	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/28/17 12:52	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/28/17 12:52	
Chloroform	ug/m3	<0.19	0.50	0.19	03/28/17 12:52	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/28/17 12:52	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/28/17 12:52	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/28/17 12:52	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

METHOD BLANK: 2546890 Matrix: Air

Associated Lab Samples: 10381335004, 10381335005, 10381335006, 10381335008, 10381335009, 10381335010, 10381335012, 10381335014, 10381335015, 10381335016, 10381335017, 10381335018, 10381335019, 10381335022, 10381335023, 10381335025, 10381335026, 10381335027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/28/17 12:52	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/28/17 12:52	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/28/17 12:52	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/28/17 12:52	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/28/17 12:52	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/28/17 12:52	
Freon 123	ug/m3	<3.2	3.2	3.2	03/28/17 12:52	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/28/17 12:52	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/28/17 12:52	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/28/17 12:52	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/28/17 12:52	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/28/17 12:52	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/28/17 12:52	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/28/17 12:52	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/28/17 12:52	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/28/17 12:52	
Styrene	ug/m3	<0.19	0.87	0.19	03/28/17 12:52	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/28/17 12:52	
Toluene	ug/m3	<0.15	0.77	0.15	03/28/17 12:52	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/28/17 12:52	
trans-1,3-Dichloropropene	ug/m3	<0.26	2.3	0.26	03/28/17 12:52	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/28/17 12:52	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/28/17 12:52	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/28/17 12:52	

LABORATORY CONTROL SAMPLE: 2546891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	66.5	120	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	84.5	121	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	66.8	120	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	91.3	117	70-130	
1,1-Dichloroethane	ug/m3	41.1	49.4	120	70-130	
1,1-Dichloroethene	ug/m3	40.3	48.2	120	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	83.0	110	60-150	SS
1,2,4-Trimethylbenzene	ug/m3	50	61.3	123	70-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	105	107		1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	91.8	118	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	70.8	116	70-139	
1,2-Dichloroethane	ug/m3	41.1	49.2	120	70-130	
1,2-Dichloropropane	ug/m3	47	56.8	121	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	59.5	119	70-133	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

LABORATORY CONTROL SAMPLE: 2546891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Butadiene	ug/m3	22.5	28.6	127	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	69.2	113	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	71.5	117	70-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	44.7	122	65-149	
2-Butanone (MEK)	ug/m3	30	32.7	109	70-130	
2-Hexanone	ug/m3	104	126	121	70-138	
2-Propanol	ug/m3	125	150	120	70-130	
4-Ethyltoluene	ug/m3	50	61.2	122	70-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	126	121	70-130	
Acetone	ug/m3	121	143	119	64-130	
Allyl chloride	ug/m3	79.5	83.4	105	60-147	
Benzene	ug/m3	32.5	38.2	118	70-130	
Bromodichloromethane	ug/m3	68.1	86.7	127	70-134	
Bromoform	ug/m3	105	132	126	70-150	
Bromomethane	ug/m3	39.5	48.0	122	70-130	
Carbon disulfide	ug/m3	31.6	37.4	118	70-134	
Carbon tetrachloride	ug/m3	64	78.9	123	68-150	
Chlorobenzene	ug/m3	46.8	53.5	114	70-132	
Chlorodifluoromethane	ug/m3	36	43.5	121	67-134	
Chloroethane	ug/m3	26.8	33.6	125	70-132	
Chloroform	ug/m3	49.6	59.3	120	70-130	
Chloromethane	ug/m3	21	26.2	125	70-130	
Chloropentafluoroethane	ug/m3	64.2	<3.2	0		1M,CH
cis-1,2-Dichloroethene	ug/m3	40.3	47.3	117	70-133	
cis-1,3-Dichloropropene	ug/m3	46.1	57.3	124	70-137	
Cyclohexane	ug/m3	35	40.7	116	70-130	
Dibromochloromethane	ug/m3	86.6	107	123	70-144	
Dichlorodifluoromethane	ug/m3	50.3	57.6	115	70-130	
Dichlorotetrafluoroethane	ug/m3	71	86.8	122	70-130	
Ethylbenzene	ug/m3	44.1	50.9	115	70-134	
Freon 123	ug/m3	63.6	74.9	118		1M
Hexachloro-1,3-butadiene	ug/m3	108	128	118	45-150	SS
Isopropylbenzene (Cumene)	ug/m3	50	57.4	115	70-140	
m&p-Xylene	ug/m3	88.3	100	114	70-130	
Methyl acetate	ug/m3	30.8	36.7	119		1M
Methyl-tert-butyl ether	ug/m3	91.6	107	117	66-148	
Methylcyclohexane	ug/m3	40.8	48.2	118	70-137	
Methylene Chloride	ug/m3	177	207	117	67-133	
n-Hexane	ug/m3	35.8	42.1	117	67-132	
o-Xylene	ug/m3	44.1	50.2	114	70-130	
Styrene	ug/m3	43.3	52.2	121	70-139	
Tetrachloroethene	ug/m3	68.9	74.1	107	70-130	
Toluene	ug/m3	38.3	46.4	121	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	47.4	118	70-131	
trans-1,3-Dichloropropene	ug/m3	46.1	52.0	113	70-142	
Trichloroethene	ug/m3	54.6	65.5	120	70-130	
Trichlorofluoromethane	ug/m3	57.1	70.1	123	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

LABORATORY CONTROL SAMPLE: 2546891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/m3	26	33.7	130	70-130	

SAMPLE DUPLICATE: 2547455

Parameter	Units	10381335004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.72J	<0.53		25	
1,1-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<1.6	<1.6		25	
1,2,4-Trimethylbenzene	ug/m3	1.1J	0.98J		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.6	<8.6		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4		25	
1,2-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,2-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	<0.32	<0.32		25	
1,3-Butadiene	ug/m3	<0.31	<0.31		25	
1,3-Dichlorobenzene	ug/m3	<0.93	<0.93		25	
1,4-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.62	<0.62		25	
2-Butanone (MEK)	ug/m3	6.6	6.2	6	25	
2-Hexanone	ug/m3	<0.72	<0.72		25	
2-Propanol	ug/m3	3.6J	3.6J		25	
4-Ethyltoluene	ug/m3	<0.33	<0.33		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.38	<0.38		25	
Acetone	ug/m3	86.2	85.5	1	25	
Allyl chloride	ug/m3	<0.40	<0.40		25	
Benzene	ug/m3	0.31J	0.29J		25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<1.6	<1.6		25	
Bromomethane	ug/m3	<0.54	<0.54		25	
Carbon disulfide	ug/m3	0.62J	0.58J		25	
Carbon tetrachloride	ug/m3	<0.34	<0.34		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.48	<0.48		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	2.3	1.9	16	25	
Chloromethane	ug/m3	<0.19	<0.19		25	
Chloropentafluoroethane	ug/m3	<5.6	<5.6		25	
cis-1,2-Dichloroethene	ug/m3	<0.43	<0.43		25	
cis-1,3-Dichloropropene	ug/m3	<0.65	<0.65		25	
Cyclohexane	ug/m3	<0.55	<0.55		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

SAMPLE DUPLICATE: 2547455

Parameter	Units	10381335004 Result	Dup Result	RPD	Max RPD	Qualifiers
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	2.8	2.6	7	25	
Dichlorotetrafluoroethane	ug/m3	<0.54	<0.54		25	
Ethylbenzene	ug/m3	<0.74	<0.74		25	
Freon 123	ug/m3	<5.6	<5.6		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.24	<0.24		25	
m&p-Xylene	ug/m3	1.6J	1.6J		25	
Methyl acetate	ug/m3	<2.7	<2.7		25	
Methyl-tert-butyl ether	ug/m3	<0.53	<0.53		25	
Methylcyclohexane	ug/m3	<0.42	<0.42		25	
Methylene Chloride	ug/m3	9.3	7.4	23	25	
n-Hexane	ug/m3	2.4	2.3	5	25	
o-Xylene	ug/m3	0.84J	0.84J		25	
Styrene	ug/m3	<0.34	<0.34		25	
Tetrachloroethene	ug/m3	<0.49	<0.49		25	
Toluene	ug/m3	3.6	3.5	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.67	<0.67		25	
trans-1,3-Dichloropropene	ug/m3	<0.46	<0.46		25	
Trichloroethene	ug/m3	53.0	51.2	4	25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J		25	
Vinyl chloride	ug/m3	<0.34	<0.34		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

QC Batch: 466603 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381335007, 10381335011, 10381335013, 10381335020

METHOD BLANK: 2549871 Matrix: Air
Associated Lab Samples: 10381335007, 10381335011, 10381335013, 10381335020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/31/17 04:29	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/31/17 04:29	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/31/17 04:29	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/31/17 04:29	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/31/17 04:29	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/31/17 04:29	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/31/17 04:29	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/31/17 04:29	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/31/17 04:29	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/31/17 04:29	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/31/17 04:29	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/31/17 04:29	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/31/17 04:29	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/31/17 04:29	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/31/17 04:29	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/31/17 04:29	
1,4-Dichlorobenzene	ug/m3	<0.50	3.1	0.50	03/31/17 04:29	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/31/17 04:29	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/31/17 04:29	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/31/17 04:29	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/31/17 04:29	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/31/17 04:29	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/31/17 04:29	
Acetone	ug/m3	<0.83	2.4	0.83	03/31/17 04:29	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/31/17 04:29	
Benzene	ug/m3	<0.12	0.32	0.12	03/31/17 04:29	
Bromodichloromethane	ug/m3	<0.19	6.8	0.19	03/31/17 04:29	
Bromoform	ug/m3	<0.90	2.1	0.90	03/31/17 04:29	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/31/17 04:29	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/31/17 04:29	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/31/17 04:29	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/31/17 04:29	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/31/17 04:29	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/31/17 04:29	
Chloroform	ug/m3	<0.19	0.50	0.19	03/31/17 04:29	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/31/17 04:29	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/31/17 04:29	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/31/17 04:29	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/31/17 04:29	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/31/17 04:29	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/31/17 04:29	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

METHOD BLANK: 2549871 Matrix: Air
Associated Lab Samples: 10381335007, 10381335011, 10381335013, 10381335020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/31/17 04:29	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/31/17 04:29	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/31/17 04:29	
Freon 123	ug/m3	<3.2	3.2	3.2	03/31/17 04:29	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/31/17 04:29	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/31/17 04:29	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/31/17 04:29	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/31/17 04:29	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/31/17 04:29	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/31/17 04:29	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/31/17 04:29	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/31/17 04:29	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/31/17 04:29	
Styrene	ug/m3	<0.19	0.87	0.19	03/31/17 04:29	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/31/17 04:29	
Toluene	ug/m3	<0.15	0.77	0.15	03/31/17 04:29	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/31/17 04:29	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/31/17 04:29	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/31/17 04:29	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/31/17 04:29	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/31/17 04:29	

LABORATORY CONTROL SAMPLE: 2549872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	70.6	127	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	87.7	126	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	66.2	119	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	111	143	70-130	CH,L1
1,1-Dichloroethane	ug/m3	41.1	60.6	147	70-130	CH,L3
1,1-Dichloroethene	ug/m3	40.3	54.5	135	70-130	CH,L3
1,2,4-Trichlorobenzene	ug/m3	75.4	73.9	98	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	61.6	123	70-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	98.6	100		1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	93.4	120	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	63.4	104	70-139	
1,2-Dichloroethane	ug/m3	41.1	48.7	118	70-130	
1,2-Dichloropropane	ug/m3	47	55.7	119	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	61.5	123	70-133	
1,3-Butadiene	ug/m3	22.5	27.8	123	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	62.9	103	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	66.3	108	70-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	43.3	118	65-149	
2-Butanone (MEK)	ug/m3	30	43.7	146	70-130	CH,L1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

LABORATORY CONTROL SAMPLE: 2549872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	131	126	70-138	
2-Propanol	ug/m3	125	177	142	70-130	CH,L1
4-Ethyltoluene	ug/m3	50	63.7	128	70-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	127	122	70-130	
Acetone	ug/m3	121	161	133	64-130	CH,L1
Allyl chloride	ug/m3	79.5	102	128	60-147	
Benzene	ug/m3	32.5	37.3	115	70-130	
Bromodichloromethane	ug/m3	68.1	75.5	111	70-134	
Bromoform	ug/m3	105	112	106	70-150	
Bromomethane	ug/m3	39.5	53.3	135	70-130	CH,L3
Carbon disulfide	ug/m3	31.6	41.9	132	70-134	CH
Carbon tetrachloride	ug/m3	64	85.0	133	68-150	CH
Chlorobenzene	ug/m3	46.8	52.9	113	70-132	
Chlorodifluoromethane	ug/m3	36	40.2	112	67-134	
Chloroethane	ug/m3	26.8	31.3	117	70-132	
Chloroform	ug/m3	49.6	66.5	134	70-130	CH,L1
Chloromethane	ug/m3	21	24.3	116	70-130	
Chloropentafluoroethane	ug/m3	64.2	71.1	111		1M
cis-1,2-Dichloroethene	ug/m3	40.3	60.5	150	70-133	CH,L1
cis-1,3-Dichloropropene	ug/m3	46.1	48.9	106	70-137	
Cyclohexane	ug/m3	35	40.6	116	70-130	
Dibromochloromethane	ug/m3	86.6	91.9	106	70-144	
Dichlorodifluoromethane	ug/m3	50.3	52.2	104	70-130	
Dichlorotetrafluoroethane	ug/m3	71	78.9	111	70-130	
Ethylbenzene	ug/m3	44.1	50.7	115	70-134	
Freon 123	ug/m3	63.6	77.1	121		1M
Hexachloro-1,3-butadiene	ug/m3	108	116	107	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	57.1	114	70-140	
m&p-Xylene	ug/m3	88.3	101	115	70-130	
Methyl acetate	ug/m3	30.8	30.8	100		1M
Methyl-tert-butyl ether	ug/m3	91.6	138	151	66-148	CH,L3
Methylcyclohexane	ug/m3	40.8	48.4	119	70-137	
Methylene Chloride	ug/m3	177	222	126	67-133	
n-Hexane	ug/m3	35.8	49.6	139	67-132	CH,L1
o-Xylene	ug/m3	44.1	50.4	114	70-130	
Styrene	ug/m3	43.3	51.9	120	70-139	
Tetrachloroethene	ug/m3	68.9	73.1	106	70-130	
Toluene	ug/m3	38.3	44.7	117	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	63.0	156	70-131	CH,L1
trans-1,3-Dichloropropene	ug/m3	46.1	47.7	103	70-142	
Trichloroethene	ug/m3	54.6	63.0	115	70-130	
Trichlorofluoromethane	ug/m3	57.1	78.5	137	70-130	CH,L1
Vinyl chloride	ug/m3	26	29.9	115	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

QC Batch: 466636 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381335021, 10381335024

METHOD BLANK: 2550307 Matrix: Air
Associated Lab Samples: 10381335021, 10381335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.0J	1.1		04/02/17 10:38	
1,1,2,2-Tetrachloroethane	ug/m3	0.0J	0.70		04/02/17 10:38	
1,1,2-Trichloroethane	ug/m3	0.0J	0.55		04/02/17 10:38	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.0J	1.6		04/02/17 10:38	
1,1-Dichloroethane	ug/m3	0.0J	0.82		04/02/17 10:38	
1,1-Dichloroethene	ug/m3	0.0J	0.81		04/02/17 10:38	
1,2,4-Trichlorobenzene	ug/m3	0.0J	3.8		04/02/17 10:38	
1,2,4-Trimethylbenzene	ug/m3	0.0J	1.0		04/02/17 10:38	
1,2-Dibromo-3-chloropropane	ug/m3	0.0J	4.9		04/02/17 10:38	
1,2-Dibromoethane (EDB)	ug/m3	0.0J	1.6		04/02/17 10:38	
1,2-Dichlorobenzene	ug/m3	0.0J	1.2		04/02/17 10:38	
1,2-Dichloroethane	ug/m3	0.0J	0.41		04/02/17 10:38	
1,2-Dichloropropane	ug/m3	0.0J	0.94		04/02/17 10:38	
1,3,5-Trimethylbenzene	ug/m3	0.0J	1.0		04/02/17 10:38	
1,3-Butadiene	ug/m3	0.0J	0.45		04/02/17 10:38	
1,3-Dichlorobenzene	ug/m3	0.0J	1.2		04/02/17 10:38	
1,4-Dichlorobenzene	ug/m3	0.0J	1.2		04/02/17 10:38	
1,4-Dioxane (p-Dioxane)	ug/m3	0.0J	3.7		04/02/17 10:38	
2-Butanone (MEK)	ug/m3	0.0J	3.0		04/02/17 10:38	
2-Hexanone	ug/m3	0.0J	4.2		04/02/17 10:38	
2-Propanol	ug/m3	0.0J	2.5		04/02/17 10:38	
4-Ethyltoluene	ug/m3	0.0J	1.0		04/02/17 10:38	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.0J	4.2		04/02/17 10:38	
Acetone	ug/m3	0.0J	2.4		04/02/17 10:38	
Allyl chloride	ug/m3	0.0J	1.6		04/02/17 10:38	
Benzene	ug/m3	0.0J	0.32		04/02/17 10:38	
Bromodichloromethane	ug/m3	0.0J	1.4		04/02/17 10:38	
Bromoform	ug/m3	0.0J	2.1		04/02/17 10:38	
Bromomethane	ug/m3	0.0J	0.79		04/02/17 10:38	
Carbon disulfide	ug/m3	0.0J	0.63		04/02/17 10:38	
Carbon tetrachloride	ug/m3	0.0J	0.64		04/02/17 10:38	
Chlorobenzene	ug/m3	0.0J	0.94		04/02/17 10:38	
Chlorodifluoromethane	ug/m3	0.0J	0.72		04/02/17 10:38	
Chloroethane	ug/m3	0.0J	0.54		04/02/17 10:38	
Chloroform	ug/m3	0.0J	0.50		04/02/17 10:38	
Chloromethane	ug/m3	0.0J	0.42		04/02/17 10:38	
Chloropentafluoroethane	ug/m3	0.0J	3.2		04/02/17 10:38	
cis-1,2-Dichloroethene	ug/m3	0.0J	0.81		04/02/17 10:38	
cis-1,3-Dichloropropene	ug/m3	0.0J	0.92		04/02/17 10:38	
Cyclohexane	ug/m3	0.0J	0.70		04/02/17 10:38	
Dibromochloromethane	ug/m3	0.0J	1.7		04/02/17 10:38	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

METHOD BLANK: 2550307 Matrix: Air
Associated Lab Samples: 10381335021, 10381335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	0.0J	1.0		04/02/17 10:38	
Dichlorotetrafluoroethane	ug/m3	0.0J	1.4		04/02/17 10:38	
Ethylbenzene	ug/m3	0.0J	0.88		04/02/17 10:38	
Freon 123	ug/m3	0.0J	3.2		04/02/17 10:38	
Hexachloro-1,3-butadiene	ug/m3	0.0J	5.4		04/02/17 10:38	MN
Isopropylbenzene (Cumene)	ug/m3	0.0J	2.5		04/02/17 10:38	
m&p-Xylene	ug/m3	0.0J	1.8		04/02/17 10:38	
Methyl acetate	ug/m3	0.0J	1.5		04/02/17 10:38	
Methyl-tert-butyl ether	ug/m3	0.0J	3.7		04/02/17 10:38	
Methylcyclohexane	ug/m3	0.0J	0.82		04/02/17 10:38	
Methylene Chloride	ug/m3	0.0J	3.5		04/02/17 10:38	
n-Hexane	ug/m3	0.0J	0.72		04/02/17 10:38	
o-Xylene	ug/m3	0.0J	0.88		04/02/17 10:38	
Styrene	ug/m3	0.0J	0.87		04/02/17 10:38	
Tetrachloroethene	ug/m3	0.0J	0.69		04/02/17 10:38	
Toluene	ug/m3	0.0J	0.77		04/02/17 10:38	
trans-1,2-Dichloroethene	ug/m3	0.0J	0.81		04/02/17 10:38	
trans-1,3-Dichloropropene	ug/m3	0.0J	0.92		04/02/17 10:38	
Trichloroethene	ug/m3	0.0J	0.55		04/02/17 10:38	
Trichlorofluoromethane	ug/m3	0.0J	1.1		04/02/17 10:38	
Vinyl chloride	ug/m3	0.0J	0.26		04/02/17 10:38	

LABORATORY CONTROL SAMPLE: 2550308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	66.9	121	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	77.0	110	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	62.8	113	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	85.4	110	70-130	
1,1-Dichloroethane	ug/m3	41.1	48.2	117	70-130	
1,1-Dichloroethene	ug/m3	40.3	48.0	119	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	77.4	103	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	57.1	114	70-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	104	106		1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	86.3	111	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	74.4	122	70-139	
1,2-Dichloroethane	ug/m3	41.1	46.9	114	70-130	
1,2-Dichloropropane	ug/m3	47	53.3	114	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	55.1	110	70-133	
1,3-Butadiene	ug/m3	22.5	25.9	115	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	74.7	122	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	76.0	124	70-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	43.0	117	65-149	
2-Butanone (MEK)	ug/m3	30	32.3	108	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

LABORATORY CONTROL SAMPLE: 2550308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	121	117	70-138	
2-Propanol	ug/m3	125	144	116	70-130	
4-Ethyltoluene	ug/m3	50	59.0	118	70-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	120	115	70-130	
Acetone	ug/m3	121	139	115	64-130	
Allyl chloride	ug/m3	79.5	106	133	60-147	
Benzene	ug/m3	32.5	37.4	115	70-130	
Bromodichloromethane	ug/m3	68.1	83.5	123	70-134	
Bromoform	ug/m3	105	134	127	70-150	
Bromomethane	ug/m3	39.5	46.8	119	70-130	
Carbon disulfide	ug/m3	31.6	37.6	119	70-134	
Carbon tetrachloride	ug/m3	64	79.8	125	68-150	
Chlorobenzene	ug/m3	46.8	48.5	104	70-132	
Chlorodifluoromethane	ug/m3	36	40.1	111	67-134	
Chloroethane	ug/m3	26.8	31.8	119	70-132	
Chloroform	ug/m3	49.6	65.1	131	70-130	CH,L1
Chloromethane	ug/m3	21	24.5	117	70-130	
Chloropentafluoroethane	ug/m3	64.2	50.2	78		1M
cis-1,2-Dichloroethene	ug/m3	40.3	45.4	113	70-133	
cis-1,3-Dichloropropene	ug/m3	46.1	56.2	122	70-137	
Cyclohexane	ug/m3	35	40.5	116	70-130	
Dibromochloromethane	ug/m3	86.6	102	118	70-144	
Dichlorodifluoromethane	ug/m3	50.3	53.7	107	70-130	
Dichlorotetrafluoroethane	ug/m3	71	83.0	117	70-130	
Ethylbenzene	ug/m3	44.1	47.5	108	70-134	
Freon 123	ug/m3	63.6	74.7	118		1M
Hexachloro-1,3-butadiene	ug/m3	108	126	116	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	52.2	104	70-140	
m&p-Xylene	ug/m3	88.3	94.3	107	70-130	
Methyl acetate	ug/m3	30.8	34.1	111		1M
Methyl-tert-butyl ether	ug/m3	91.6	102	111	66-148	
Methylcyclohexane	ug/m3	40.8	48.0	118	70-137	
Methylene Chloride	ug/m3	177	194	110	67-133	
n-Hexane	ug/m3	35.8	39.3	110	67-132	
o-Xylene	ug/m3	44.1	46.6	106	70-130	
Styrene	ug/m3	43.3	48.2	111	70-139	
Tetrachloroethene	ug/m3	68.9	68.2	99	70-130	
Toluene	ug/m3	38.3	42.9	112	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	44.8	111	70-131	
trans-1,3-Dichloropropene	ug/m3	46.1	60.5	131	70-142	CH
Trichloroethene	ug/m3	54.6	59.3	108	70-130	
Trichlorofluoromethane	ug/m3	57.1	68.0	119	70-130	
Vinyl chloride	ug/m3	26	29.9	115	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

SAMPLE DUPLICATE: 2550945

Parameter	Units	10381335021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.0J	0.0J		25	
1,1,2,2-Tetrachloroethane	ug/m3	0.0J	0.0J		25	
1,1,2-Trichloroethane	ug/m3	0.0J	0.0J		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	16.0J	14.2J		25	
1,1-Dichloroethane	ug/m3	0.0J	0.0J		25	
1,1-Dichloroethene	ug/m3	0.0J	0.0J		25	
1,2,4-Trichlorobenzene	ug/m3	0.0J	0.0J		25	
1,2,4-Trimethylbenzene	ug/m3	1.7J	0.0J		25	
1,2-Dibromo-3-chloropropane	ug/m3	0.0J	0.0J		25	
1,2-Dibromoethane (EDB)	ug/m3	0.0J	0.0J		25	
1,2-Dichlorobenzene	ug/m3	0.0J	0.0J		25	
1,2-Dichloroethane	ug/m3	0.0J	0.0J		25	
1,2-Dichloropropane	ug/m3	0.0J	0.0J		25	
1,3,5-Trimethylbenzene	ug/m3	0.0J	0.0J		25	
1,3-Butadiene	ug/m3	0.0J	0.0J		25	
1,3-Dichlorobenzene	ug/m3	0.0J	0.0J		25	
1,4-Dichlorobenzene	ug/m3	0.0J	0.0J		25	
1,4-Dioxane (p-Dioxane)	ug/m3	0.0J	0.0J		25	
2-Butanone (MEK)	ug/m3	0.0J	0.0J		25	
2-Hexanone	ug/m3	0.0J	0.0J		25	
2-Propanol	ug/m3	0.0J	0.0J		25	
4-Ethyltoluene	ug/m3	0.0J	0.0J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.0J	0.0J		25	
Acetone	ug/m3	14.4J	14.7J		25	
Allyl chloride	ug/m3	0.0J	0.0J		25	
Benzene	ug/m3	0.0J	0.0J		25	
Bromodichloromethane	ug/m3	0.0J	0.0J		25	
Bromoform	ug/m3	0.0J	0.0J		25	
Bromomethane	ug/m3	0.0J	0.0J		25	
Carbon disulfide	ug/m3	0.0J	0.0J		25	
Carbon tetrachloride	ug/m3	0.0J	0.0J		25	
Chlorobenzene	ug/m3	0.0J	0.0J		25	
Chlorodifluoromethane	ug/m3	0.0J	0.0J		25	
Chloroethane	ug/m3	0.0J	0.0J		25	
Chloroform	ug/m3	0.0J	0.0J		25	
Chloromethane	ug/m3	0.0J	0.0J		25	
Chloropentafluoroethane	ug/m3	0.0J	0.0J		25	
cis-1,2-Dichloroethene	ug/m3	878	957	9	25	
cis-1,3-Dichloropropene	ug/m3	0.0J	0.0J		25	
Cyclohexane	ug/m3	0.0J	0.0J		25	
Dibromochloromethane	ug/m3	0.0J	0.0J		25	
Dichlorodifluoromethane	ug/m3	0.0J	5.7J		25	
Dichlorotetrafluoroethane	ug/m3	0.0J	0.0J		25	
Ethylbenzene	ug/m3	3.9J	4.0J		25	
Freon 123	ug/m3	0.0J	0.0J		25	
Hexachloro-1,3-butadiene	ug/m3	0.0J	0.0J		25	
Isopropylbenzene (Cumene)	ug/m3	0.0J	0.0J		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

SAMPLE DUPLICATE: 2550945

Parameter	Units	10381335021 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	23.0J	23.4J		25	
Methyl acetate	ug/m3	0.0J	0.0J		25	
Methyl-tert-butyl ether	ug/m3	0.0J	0.0J		25	
Methylcyclohexane	ug/m3	0.0J	0.0J		25	
Methylene Chloride	ug/m3	31.0J	29.3J		25	
n-Hexane	ug/m3	0.0J	1.6J		25	
o-Xylene	ug/m3	0.0J	0.0J		25	
Styrene	ug/m3	0.0J	0.0J		25	
Tetrachloroethene	ug/m3	48.8	50.0	3	25	
Toluene	ug/m3	44.8	42.9	4	25	
trans-1,2-Dichloroethene	ug/m3	0.0J	0.0J		25	
trans-1,3-Dichloropropene	ug/m3	0.0J	0.0J		25	
Trichloroethene	ug/m3	33.5	31.5	6	25	
Trichlorofluoromethane	ug/m3	0.0J	0.0J		25	
Vinyl chloride	ug/m3	0.0J	0.0J		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08623_28019.D
Report Date: 29-Mar-2017 12:45

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08623_28019.D
Lab Smp Id: 2546082
Inj Date : 27-MAR-2017 19:49
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28019
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 28-Mar-2017 11:48 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08623_28019.D
Report Date: 29-Mar-2017 12:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.494	(0.801)	1144228	9.81442	9.81	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.622	(1.000)	3107902	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.082	(1.263)	2483303	9.47785	9.48	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	8.635	8.648	(1.000)	1767989	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08623_28019.D
Report Date: 29-Mar-2017 12:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.847	11.857	(1.372)	706692	8.42006	8.42	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08623_28019.D
Report Date: 29-Mar-2017 12:45

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08623_28019.D
Lab Smp Id: 2546082
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info: 28019

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

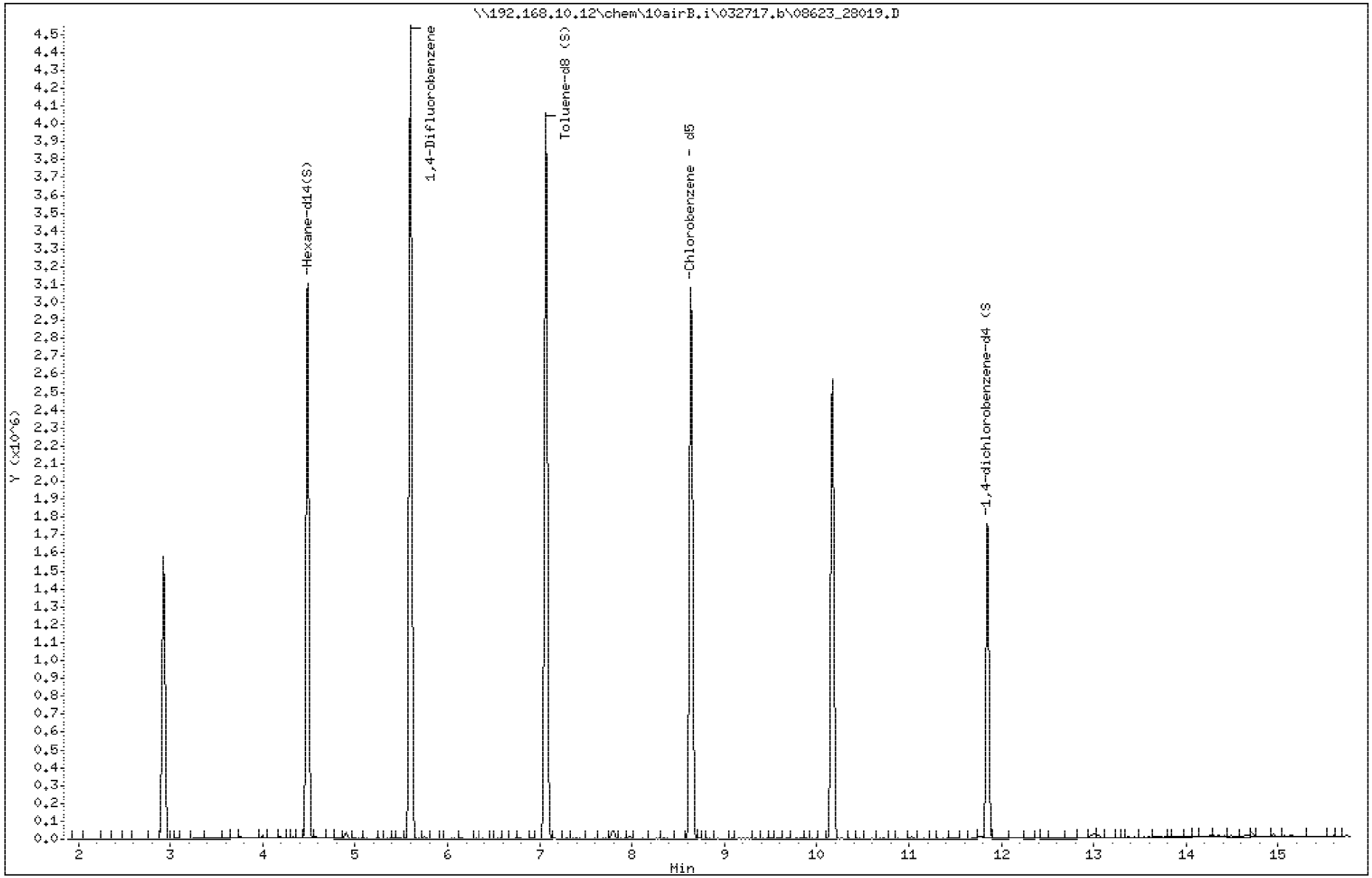
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	3107902	9.75
67 Chlorobenzene - d	1804482	1082689	2526275	1767989	-2.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08623_28019.D
Date : 27-MAR-2017 19:49
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032717.b/08623.D
Injection Date: 27-MAR-2017 19:49
Instrument: 10airB.i
Lab Sample ID: ic
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08708_28028.D
Report Date: 03-Apr-2017 14:50

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08708_28028.D
Lab Smp Id: 2546890
Inj Date : 28-MAR-2017 12:52
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 29-Mar-2017 13:49 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08708_28028.D
Report Date: 03-Apr-2017 14:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.478	(0.800)	1029193	9.79818	9.80	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	2800081	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.066	7.073	(1.263)	2258339	9.56678	9.57	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						(D)
*	67 Chlorobenzene - d5	117	8.638	8.642	(1.000)	1591707	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08708_28028.D
Report Date: 03-Apr-2017 14:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	645273	8.53974	8.54	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08708_28028.D
Report Date: 03-Apr-2017 14:50

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08708_28028.D
Lab Smp Id: 2546890
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

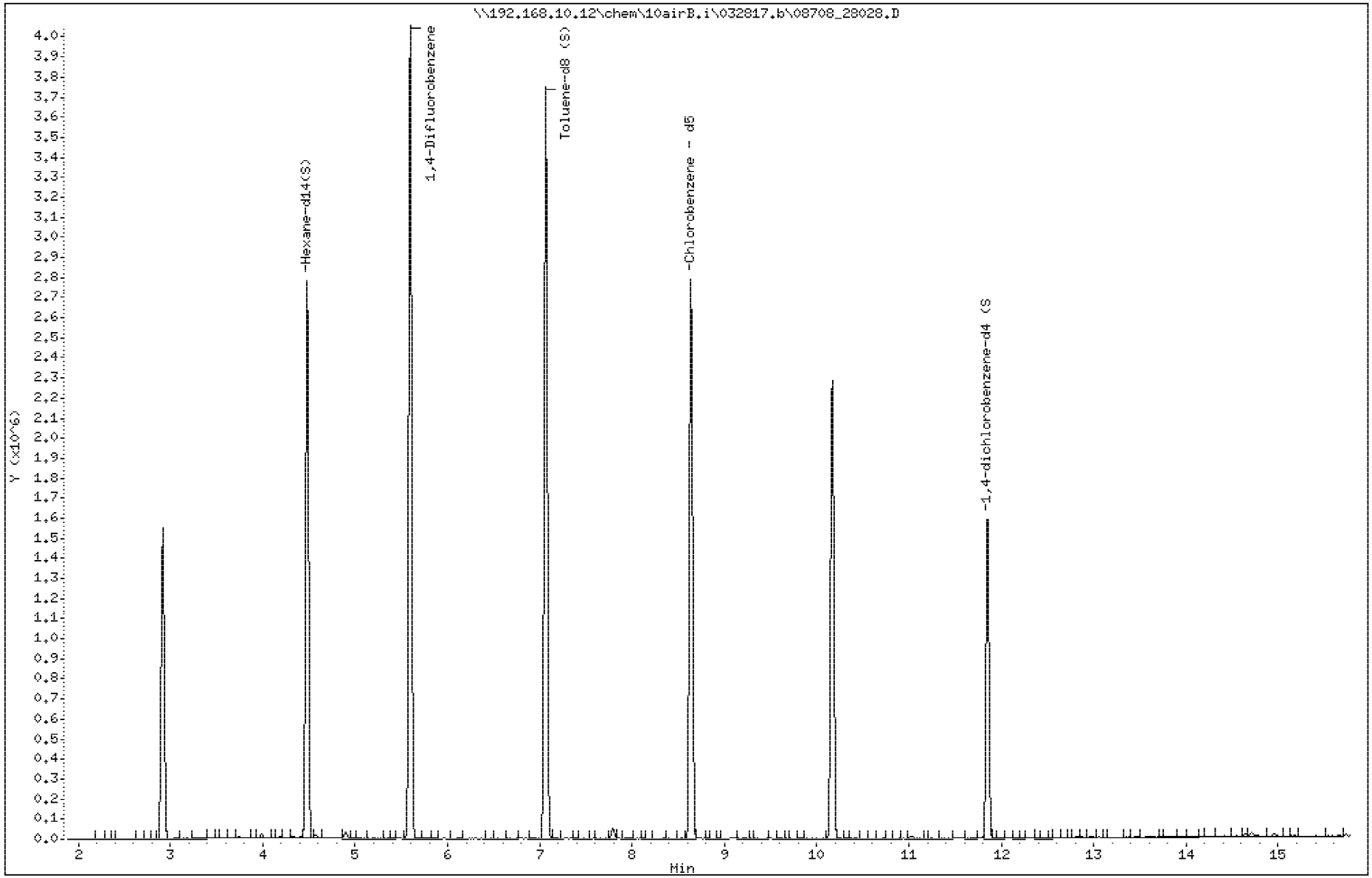
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2800081	-1.12
67 Chlorobenzene - d	1804482	1082689	2526275	1591707	-11.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08708_28028.D
Date : 28-MAR-2017 12:52
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b/08708_28028.D
Injection Date: 28-MAR-2017 12:52
Instrument: 10airB.i
Lab Sample ID: 2546890
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08934_28049.D
Report Date: 04-Apr-2017 11:49

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08934_28049.D
Lab Smp Id: 2549871
Inj Date : 31-MAR-2017 04:29
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28049
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 04-Apr-2017 11:24 10airB.i Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 34 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						(D)
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08934_28049.D
Report Date: 04-Apr-2017 11:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						(D)
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.536	4.548	(0.804)	1018363	12.5555	12.6	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.638	5.674	(1.000)	2124388	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						(D)
$	59 Toluene-d8 (S)	98	7.098	7.121	(1.259)	1779706	9.92181	9.92	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						
*	67 Chlorobenzene - d5	117	8.658	8.677	(1.000)	1240051	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						
	78 4-Ethyltoluene	105	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08934_28049.D
Report Date: 04-Apr-2017 11:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.870	(1.369)	452033	7.99518	8.00	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						(D)
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08934_28049.D
Report Date: 04-Apr-2017 11:49

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08934_28049.D
Lab Smp Id: 254987I
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info: 28049

Calibration Date: 31-MAR-2017
Calibration Time: 03:32
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	2124388	16.57
67 Chlorobenzene - d	1204744	722846	1686642	1240051	2.93

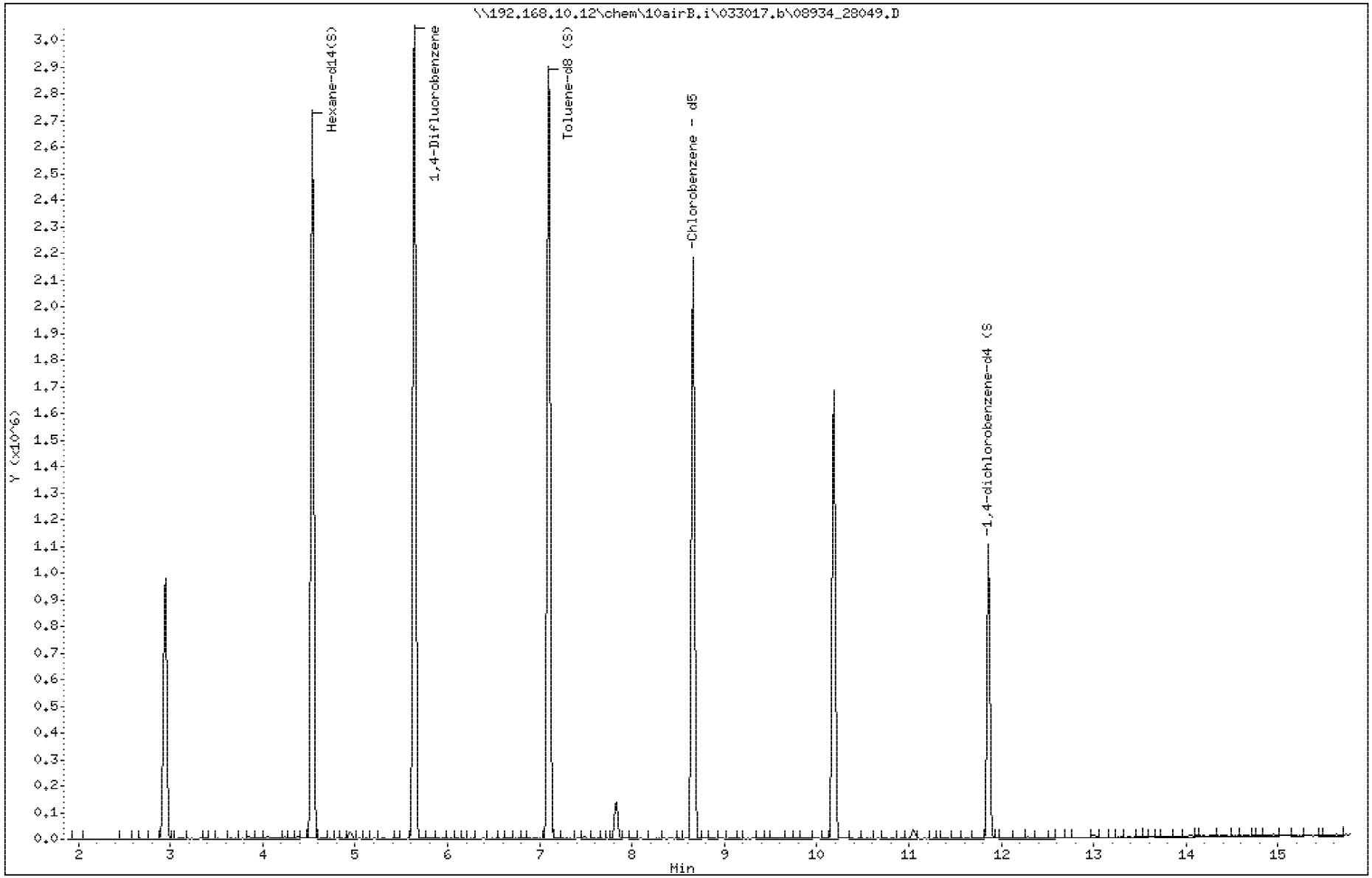
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.67	5.34	6.00	5.64	-0.62
67 Chlorobenzene - d	8.68	8.35	9.01	8.66	-0.22

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08934_28049.D
Date : 31-MAR-2017 04:29
Client ID:
Sample Info:

Instrument: 10airB.i

Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\033017.b/08934_28049.D
Injection Date: 31-MAR-2017 04:29
Instrument: 10airB.i
Lab Sample ID: 2549871
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09205l.D
Report Date: 03-Apr-2017 15:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040217.b\09205l.D
Lab Smp Id: 2550307
Inj Date : 02-APR-2017 10:38
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 28055
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m
Meth Date : 03-Apr-2017 14:27 drandall Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						(D)
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						(D)
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09205l.D
Report Date: 03-Apr-2017 15:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.801)	773576	10.0551	10.1	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	2039287	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	1645319	9.62989	9.63	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						
*	67 Chlorobenzene - d5	117	8.635	8.645	(1.000)	1161302	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09205l.D
Report Date: 03-Apr-2017 15:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
80	n-Decane	57	Compound Not Detected.						
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	414693	7.90290	7.90	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09205l.D
Report Date: 03-Apr-2017 15:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09205l.D
Lab Smp Id: 2550307
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m
Misc Info: 28055

Calibration Date: 02-APR-2017
Calibration Time: 08:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

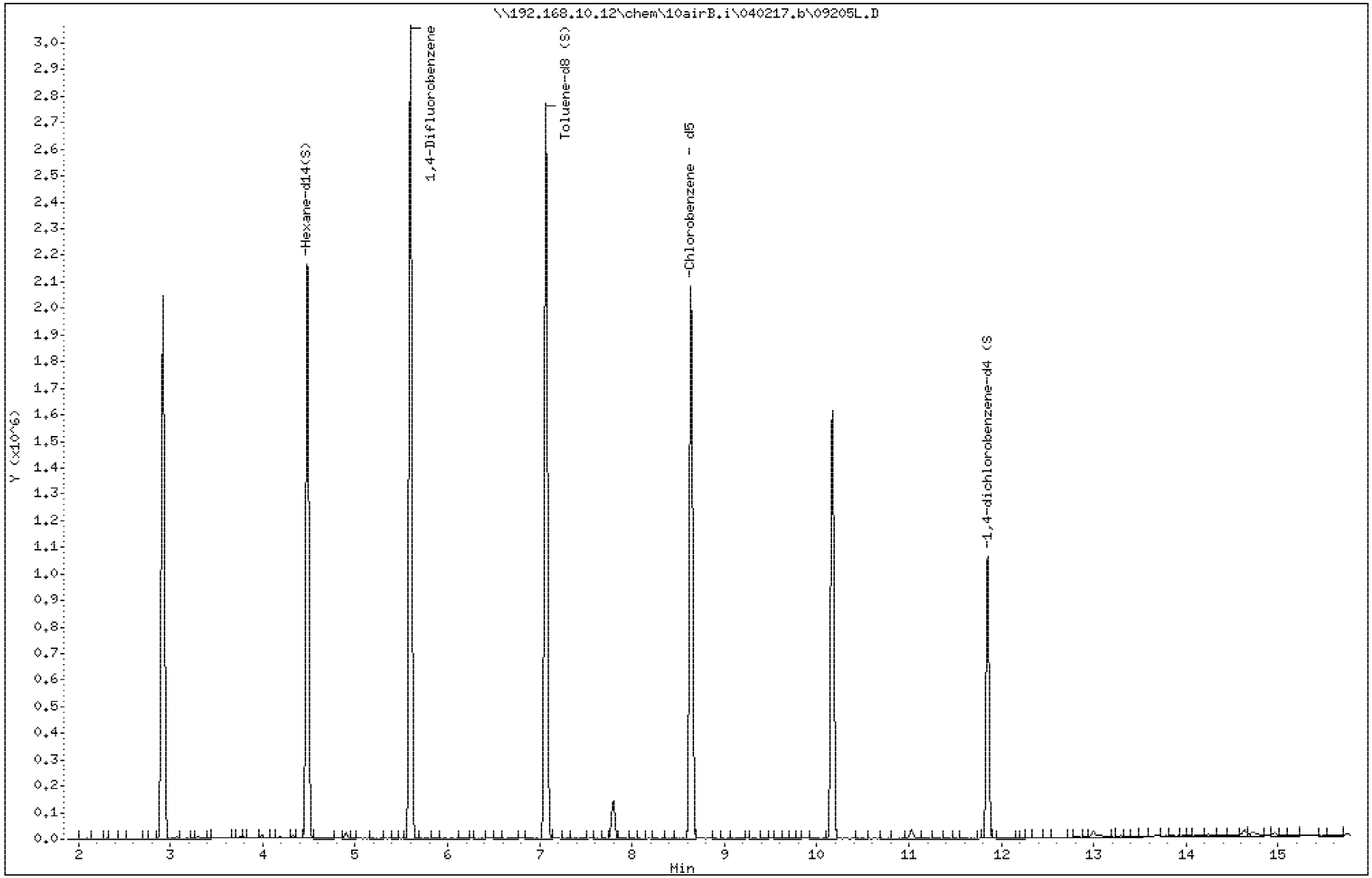
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	2039287	5.29
67 Chlorobenzene - d	1173864	704318	1643410	1161302	-1.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.11

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09205L.D
Date : 02-APR-2017 10:38
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\040217.b/09205.D
Injection Date: 02-APR-2017 10:38
Instrument: 10airB.i
Lab Sample ID: CERT
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08618_28019.D
Report Date: 29-Mar-2017 12:45

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032717.b\08618_28019.D
Lab Smp Id: 2546083
Inj Date : 27-MAR-2017 16:52
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28019
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Meth Date : 28-Mar-2017 11:48 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 18 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	Compound Not Detected.					
2	1,1-Difluoroethane	65	2.986	3.008	(0.533)	6971	0.25251	0.253(Q)
3	Chlorodifluoromethane	67	2.996	3.005	(0.534)	141058	11.3650	11.4(Q)
4	Propylene	41	2.999	2.999	(0.535)	377096	10.3981	10.4
5	Dichlorodifluoromethane	85	3.031	3.044	(0.541)	1425710	10.6764	10.7
6	Chloromethane	50	3.128	3.147	(0.558)	637009	11.5660	11.6
7	Dichlorotetrafluoroethane	85	3.144	3.166	(0.561)	1349257	11.3117	11.3
8	Vinyl chloride	62	3.208	3.230	(0.572)	550278	12.0857	12.1
9	1,3-Butadiene	54	3.253	3.278	(0.580)	406648	11.8251	11.8
10	Bromomethane	94	3.394	3.417	(0.605)	408978	11.2301	11.2
11	Chloroethane	64	3.449	3.471	(0.615)	224488	11.6516	11.7
12	Ethanol	45	3.533	3.558	(0.630)	225111	13.9946	14.0
13	Vinyl Bromide	106	3.565	3.587	(0.636)	433012	11.8091	11.8
14	Isopentane	43	3.584	3.606	(0.639)	491099	10.7284	10.7
15	Freon 123	83	Compound Not Detected.					
16	Trichlorofluoromethane	101	3.661	3.680	(0.653)	1077055	11.5222	11.5
17	Acrolein	56	3.671	3.696	(0.655)	146562	9.97002	9.97
18	Acetone	43	3.706	3.735	(0.661)	815659	12.8692	12.9(H)
19	Isopropyl Alcohol	45	3.755	3.786	(0.670)	959500	13.4495	13.4
20	1,1-Dichloroethene	61	3.896	3.918	(0.695)	750203	11.4002	11.4
21	Acrylonitrile	53	3.912	3.944	(0.698)	407025	12.5845	12.6
22	Freon 113	101	3.935	3.957	(0.702)	859679	11.4528	11.5
23	Methyl Acetate	43	3.941	3.973	(0.703)	189573	1.81887	1.82(Q)

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08618_28019.D
Report Date: 29-Mar-2017 12:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.944	3.976	(0.704)	1131211	12.4843	12.5(H)
	25 Methylene chloride	49	3.989	4.015	(0.712)	636015	13.0901	13.1
	26 Allyl Chloride	76	4.005	4.028	(0.714)	176312	13.7485	13.7
	27 Carbon Disulfide	76	4.115	4.134	(0.734)	1111724	12.9664	13.0
	28 trans-1,2-dichloroethene	96	4.259	4.285	(0.760)	436403	11.8922	11.9
	29 Methyl Tert Butyl Ether	73	4.298	4.311	(0.767)	1190197	12.1682	12.2
	30 Vinyl Acetate	43	4.378	4.404	(0.781)	1279734	12.0040	12.0
	31 1,1-Dichloroethane	63	4.398	4.423	(0.784)	829795	11.6271	11.6
$	32 Hexane-d14(S)	66	4.481	4.494	(0.799)	850692	9.34778	9.35
	33 Methyl Ethyl Ketone	72	4.545	4.568	(0.811)	205433	10.5761	10.6(Q)
	34 n-Hexane	57	4.578	4.590	(0.816)	812785	11.3256	11.3(M)
	35 Di-isopropyl Ether	45	4.597	4.616	(0.820)	1529323	10.8632	10.9
	36 Ethyl Acetate	43	4.713	4.729	(0.841)	1079764	11.7185	11.7
	37 cis-1,2-Dichloroethene	96	4.713	4.738	(0.841)	463328	11.5141	11.5(H)
	38 Ethyl Tert-Butyl Ether	59	4.822	4.838	(0.860)	1955273	13.6854	13.7
	39 Chloroform	83	4.835	4.854	(0.862)	1052471	13.1848	13.2
	40 Tetrahydrofuran	42	4.989	5.002	(0.890)	636065	11.4682	11.5
	41 1,1,1-Trichloroethane	97	5.224	5.243	(0.932)	1180511	11.3876	11.4
	42 1,2-Dichloroethane	62	5.230	5.249	(0.933)	904192	11.3653	11.4
	43 Benzene	78	5.459	5.478	(0.974)	1605509	11.4737	11.5
	44 Carbon tetrachloride	117	5.478	5.497	(0.977)	942261	9.39988	9.40
	45 Cyclohexane	56	5.484	5.497	(0.978)	896647	11.1509	11.2
	46 Tert Amyl Methyl Ether	73	5.600	5.613	(0.999)	1623999	11.6452	11.6
*	47 1,4-Difluorobenzene	114	5.607	5.622	(1.000)	2425956	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.783	(1.029)	3060448	12.4828	12.5
	49 Heptane	43	5.886	5.902	(1.050)	1015209	11.4961	11.5
	50 1,2-Dichloropropane	63	5.963	5.976	(1.064)	652313	11.8545	11.9
	51 Trichloroethene	130	5.983	5.999	(1.067)	857548	11.6777	11.7
	52 Methyl methacrylate	69	6.041	6.053	(1.077)	572569	11.4544	11.5
	53 1,4-Dioxane	88	6.063	6.076	(1.081)	407967	11.9422	11.9
	54 Bromodichloromethane	83	6.082	6.095	(1.085)	1184954	12.1585	12.2
	55 Methylcyclohexane	98	6.430	6.442	(1.147)	470673	11.3696	11.4
	56 Methyl Isobutyl Ketone	43	6.529	6.539	(1.165)	1578120	13.1579	13.2
	57 cis-1,3-Dichloropropene	75	6.584	6.597	(1.174)	962992	12.1799	12.2
	58 trans-1,3-Dichloropropene	75	6.979	6.995	(1.245)	886542	11.1048	11.1
$	59 Toluene-d8 (S)	98	7.073	7.082	(1.261)	2148939	10.5072	10.5
	60 1,1,2-Trichloroethane	97	7.140	7.153	(1.274)	683255	11.7074	11.7
	61 Toluene	91	7.150	7.163	(1.275)	2007209	11.7882	11.8
	62 Methyl Butyl Ketone	43	7.369	7.381	(0.853)	1561742	13.5652	13.6
	63 n-Octane	43	7.578	7.590	(0.877)	62825	0.48847	0.488
	64 Dibromochloromethane	129	7.674	7.687	(0.888)	1268099	11.1943	11.2
	65 1,2-Dibromoethane	107	7.902	7.918	(0.915)	1127924	11.0549	11.1
	66 Tetrachloroethene	166	7.983	7.992	(0.924)	1108052	10.3359	10.3
*	67 Chlorobenzene - d5	117	8.639	8.648	(1.000)	1636908	10.0000	
	68 Chlorobenzene	112	8.684	8.693	(1.005)	1681550	10.8168	10.8
	69 Ethyl Benzene	91	8.931	8.941	(1.034)	2660611	11.0900	11.1
	70 m&p-Xylene	91	9.076	9.088	(1.051)	2229000	12.1603	12.2
	71 n-Nonane	43	9.471	9.474	(1.096)	81015	0.70946	0.709
	72 Bromoform	173	9.478	9.487	(1.097)	1031690	11.7993	11.8
	73 Styrene	104	9.503	9.516	(1.100)	1572107	11.6720	11.7
	74 o-Xylene	91	9.577	9.587	(1.109)	2082503	11.0701	11.1
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.834	(1.138)	1230543	12.0542	12.1
	76 Isopropylbenzene	105	10.159	10.169	(1.176)	2838697	11.1338	11.1
	77 N-Propylbenzene	91	10.738	10.744	(1.243)	3240136	12.0992	12.1

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08618_28019.D
Report Date: 29-Mar-2017 12:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.921	(1.263)	2655497	11.6673	11.7
79	1,3,5-Trimethylbenzene	105	10.999	11.008	(1.273)	2328616	11.6440	11.6
80	n-Decane	57	11.378	11.384	(2.029)	134030	1.27589	1.28
81	Tert-Butyl Benzene	119	11.497	11.503	(1.331)	2353386	11.0217	11.0
82	1,2,4-Trimethylbenzene	105	11.510	11.519	(1.332)	2149790	12.1042	12.1
83	1,3-Dichlorobenzene	146	11.793	11.802	(1.365)	1371370	11.2030	11.2
84	Sec- Butylbenzene	105	11.806	11.815	(1.367)	3041589	12.0696	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.857	(1.372)	949065	12.2134	12.2(M)
86	Benzyl Chloride	91	11.864	11.873	(1.373)	1361169	10.7553	10.8
87	1,4-Dichlorobenzene	146	11.889	11.895	(1.376)	1367733	11.6948	11.7
88	p-Isopropyltoluene	119	11.986	11.995	(1.387)	2586518	12.1982	12.2
89	1,2,3-Trimethylbenzene	105	12.034	12.040	(1.393)	2142503	12.5292	12.5
90	1,2-Dichlorobenzene	146	12.282	12.288	(1.422)	1287450	11.6319	11.6
91	N-Butylbenzene	91	12.458	12.465	(1.442)	2123524	12.4278	12.4
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.494)	100900	2.78532	2.79
93	1,2,4-Trichlorobenzene	180	14.044	14.037	(1.626)	442095	15.0752	15.1(R)
94	Naphthalene	128	14.172	14.169	(1.641)	1418088	17.8741	17.9(R)
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	606826	17.2053	17.2(R)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08618_28019.D
Report Date: 29-Mar-2017 12:45

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08618_28019.D
Lab Smp Id: 2546083
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Misc Info: 28019

Calibration Date: 27-MAR-2017
Calibration Time: 14:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2425956	-14.33
67 Chlorobenzene - d	1804482	1082689	2526275	1636908	-9.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.05
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\032717.b\08618_28019.D

Date : 27-MAR-2017 16:52

Client ID:

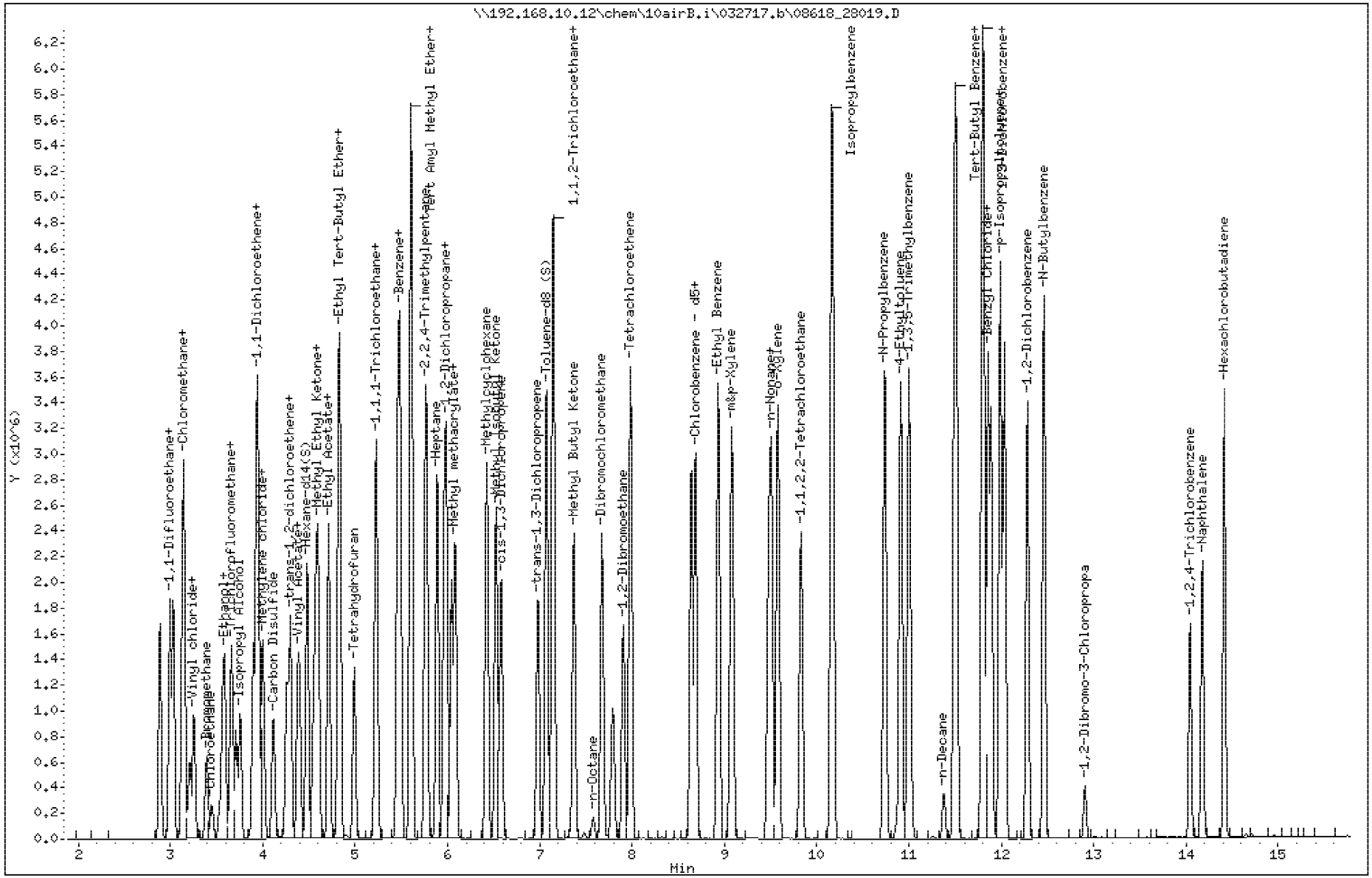
Instrument: 10airB.i

Sample Info:

Operator: NCK

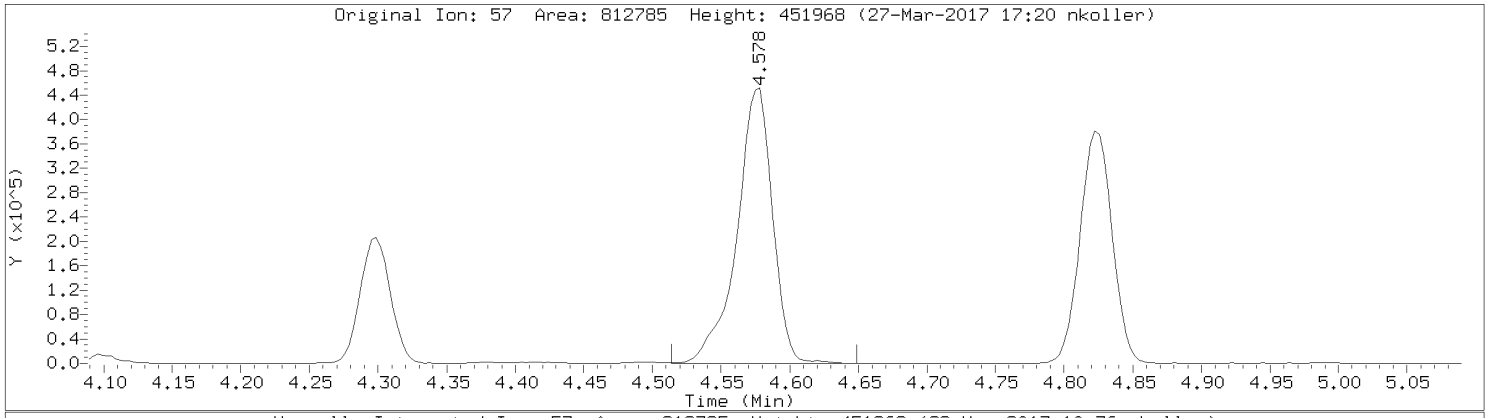
Column phase: J&W DB-5

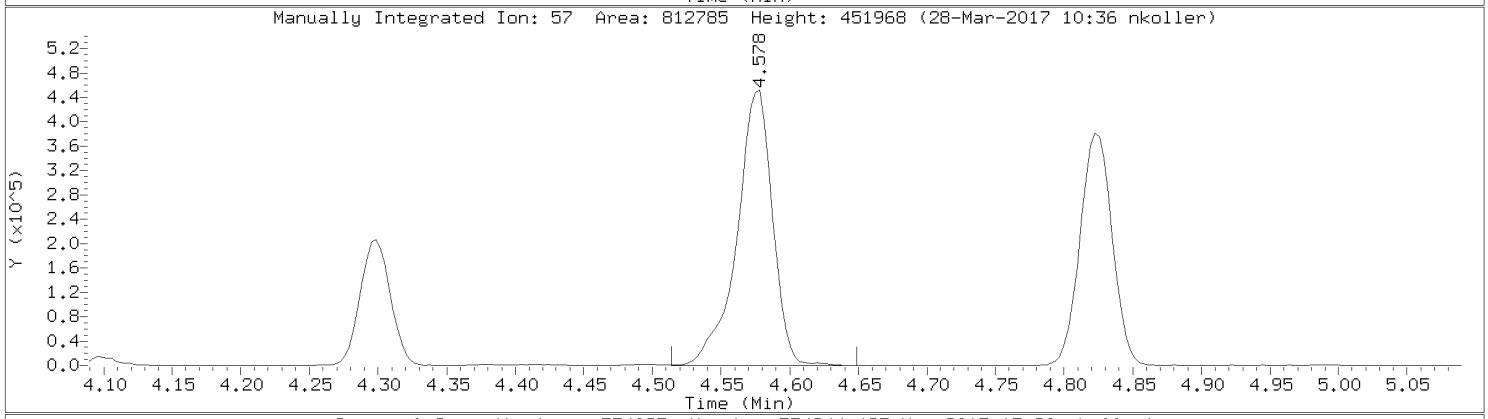
Column diameter: 0.32

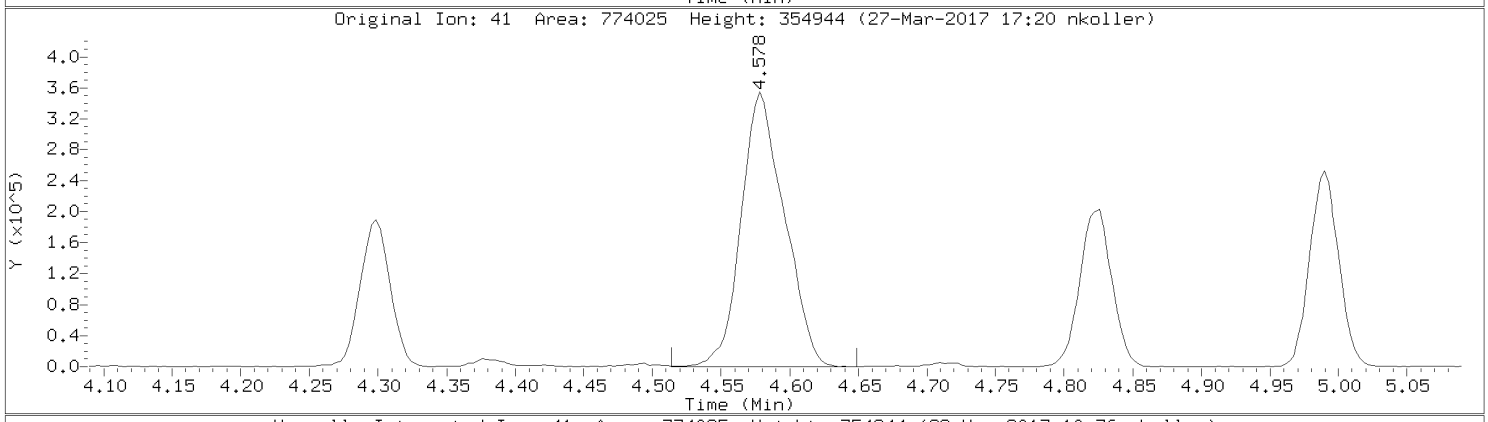


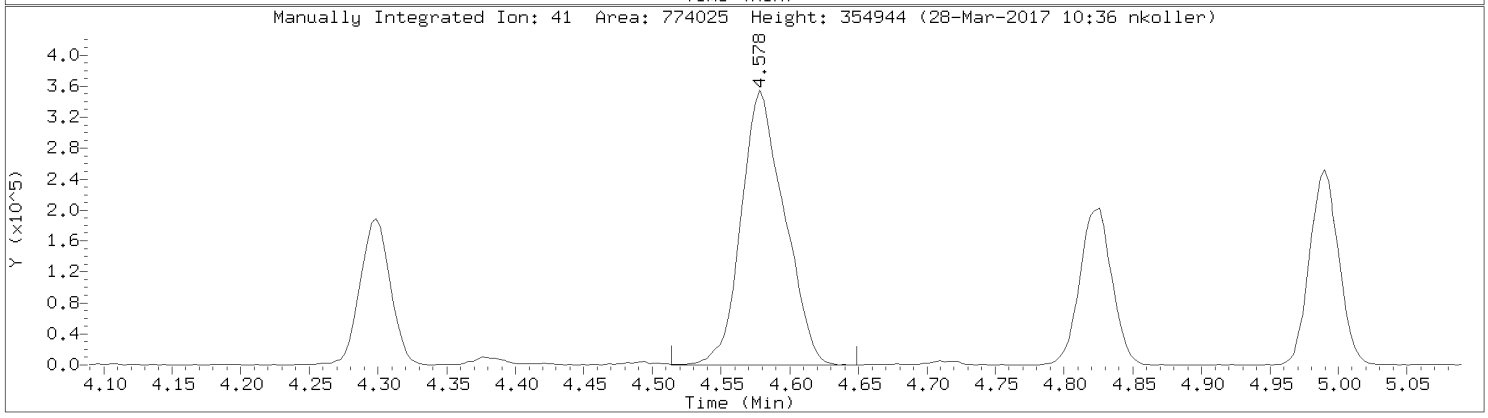
Data File: \\192.168.10.12\chem\10airB.i\032717.b/08618.D
Injection Date: 27-MAR-2017 16:52
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: n-Hexane
CAS Number: 110-54-3

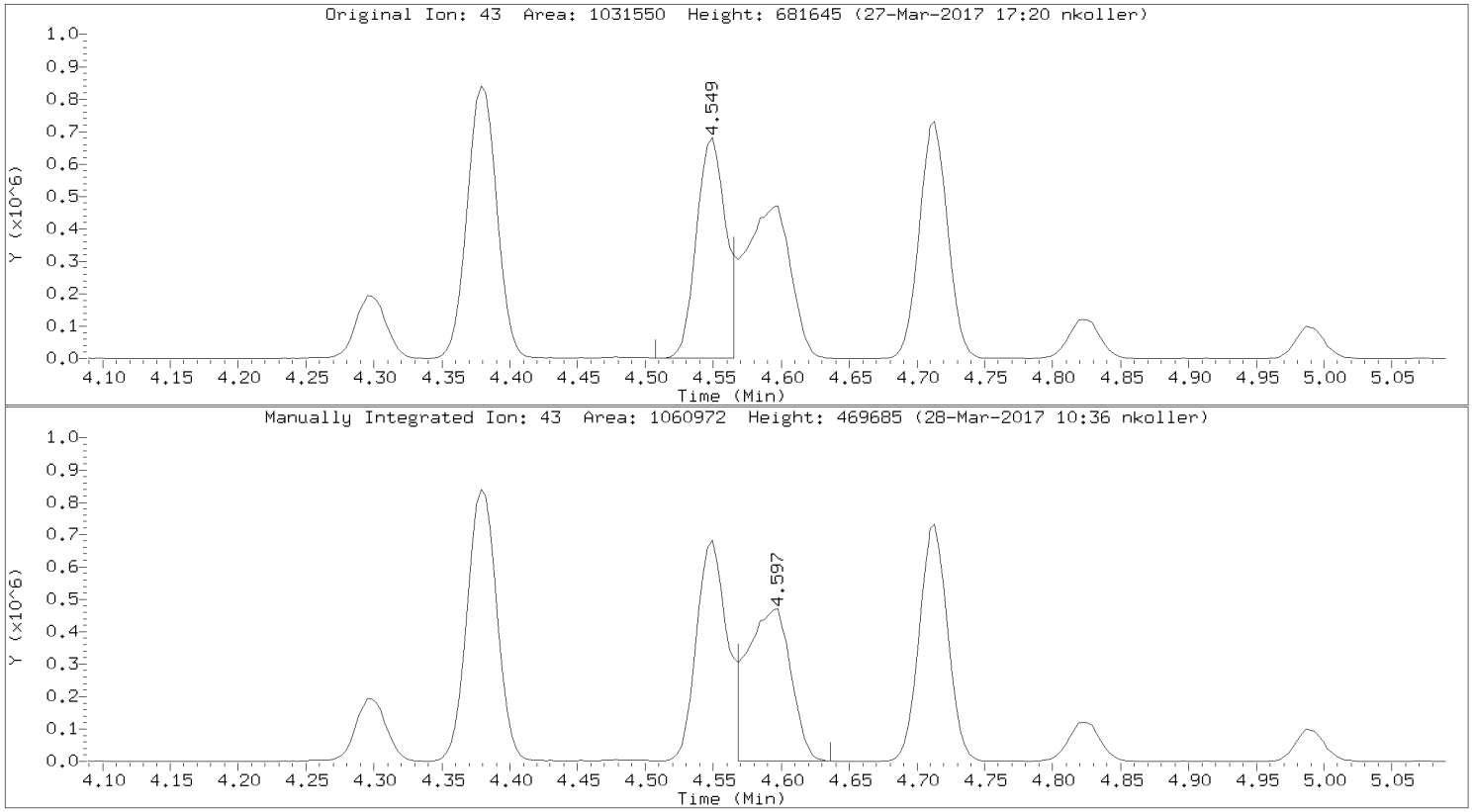






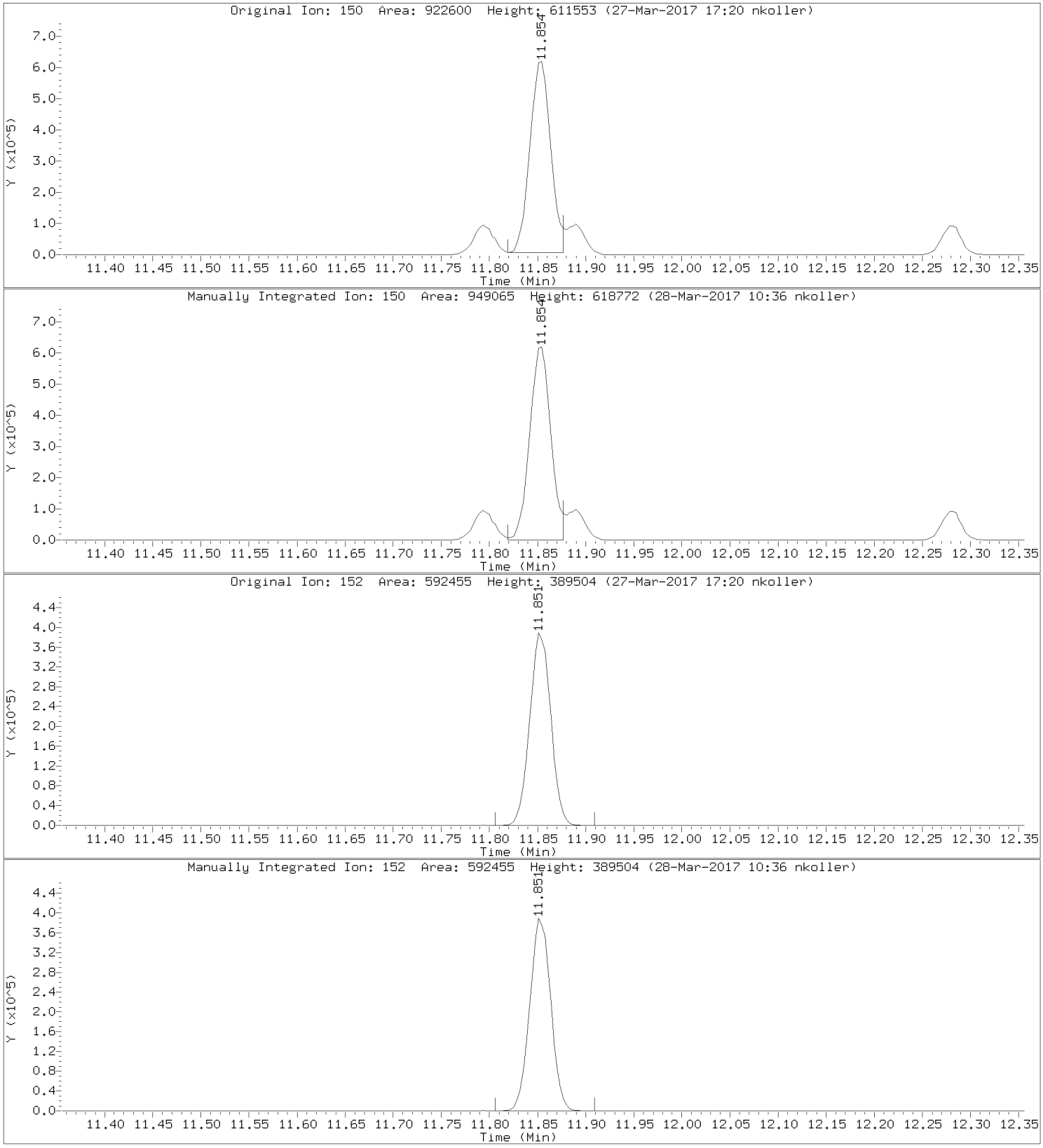


Data File: \\192.168.10.12\chem\10airB.i\032717.b/08618.D
Injection Date: 27-MAR-2017 16:52
Instrument: 10airB.i
Lab Sample ID: ICV



Data File: \\192.168.10.12\chem\10airB.i\032717.b/08618.D
Injection Date: 27-MAR-2017 16:52
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702_28028.D
Report Date: 03-Apr-2017 13:41

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\032817.b\08702_28028.D
Lab Smp Id: 2546891
Inj Date : 28-MAR-2017 09:50
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28028
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Meth Date : 29-Mar-2017 13:49 nkoller Quant Type: ISTD
Cal Date : 27-MAR-2017 15:56 Cal File: 08616.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 1,1-Difluoroethane	65	2.986	2.986	(0.532)	328818	12.4312	12.4
3 Chlorodifluoromethane	67	2.996	2.996	(0.534)	143814	12.0933	12.1
4 Propylene	41	2.996	2.996	(0.534)	393398	11.3216	11.3
5 Dichlorodifluoromethane	85	3.028	3.028	(0.540)	1465350	11.4527	11.5
6 Chloromethane	50	3.127	3.127	(0.558)	658619	12.4809	12.5
7 Dichlorotetrafluoroethane	85	3.140	3.140	(0.560)	1395361	12.2094	12.2
8 Vinyl chloride	62	3.208	3.208	(0.572)	565381	12.9600	13.0
9 1,3-Butadiene	54	3.253	3.253	(0.580)	419224	12.7235	12.7
10 Bromomethane	94	3.391	3.391	(0.605)	424500	12.1656	12.2
11 Chloroethane	64	3.442	3.442	(0.614)	231039	12.5156	12.5
12 Ethanol	45	3.539	3.539	(0.631)	958629	62.1998	62.2
13 Vinyl Bromide	106	3.565	3.565	(0.635)	417421	11.8813	11.9
14 Isopentane	43	3.581	3.581	(0.638)	533621	12.1667	12.2
15 Freon 123	83	3.626	3.626	(0.646)	604585	11.7750	11.8
16 Trichlorofluoromethane	101	3.658	3.658	(0.652)	1099011	12.2709	12.3
17 Acrolein	56	3.674	3.674	(0.655)	436640	31.0007	31.0
18 Acetone	43	3.713	3.713	(0.662)	3606781	59.3931	59.4
19 Isopropyl Alcohol	45	3.764	3.764	(0.671)	4115525	60.2088	60.2
20 1,1-Dichloroethene	61	3.896	3.896	(0.695)	753755	11.9547	12.0
21 Acrylonitrile	53	3.922	3.922	(0.699)	963643	31.0961	31.1
22 Freon 113	101	3.938	3.938	(0.702)	843126	11.7231	11.7
23 Methyl Acetate	43	3.954	3.954	(0.705)	1191104	11.9275	11.9
24 Tert Butyl Alcohol (TBA)	59	3.950	3.950	(0.704)	2543967	29.3026	29.3

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702_28028.D
Report Date: 03-Apr-2017 13:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	25 Methylene chloride	49	3.999	3.999	(0.713)	2723359	58.4996	58.5
	26 Allyl Chloride	76	4.008	4.008	(0.715)	322038	26.2093	26.2
	27 Carbon Disulfide	76	4.111	4.111	(0.733)	971905	11.8310	11.8
	28 trans-1,2-dichloroethene	96	4.269	4.269	(0.761)	413670	11.7653	11.8
	29 Methyl Tert Butyl Ether	73	4.295	4.295	(0.766)	2748688	29.3295	29.3
	30 Vinyl Acetate	43	4.385	4.385	(0.782)	1214245	11.8874	11.9
	31 1,1-Dichloroethane	63	4.404	4.404	(0.785)	821652	12.0161	12.0
$	32 Hexane-d14(S)	66	4.478	4.478	(0.798)	853328	9.78647	9.79
	33 Methyl Ethyl Ketone	72	4.549	4.549	(0.811)	203070	10.9113	10.9
	34 n-Hexane	57	4.574	4.574	(0.815)	807134	11.7383	11.7
	35 Di-isopropyl Ether	45	4.597	4.597	(0.819)	1591905	11.8018	11.8
	36 Ethyl Acetate	43	4.712	4.712	(0.840)	1036982	11.7460	11.7
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	452671	11.7408	11.7
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.860)	3973214	29.0246	29.0
	39 Chloroform	83	4.838	4.838	(0.862)	913995	11.9504	12.0
	40 Tetrahydrofuran	42	4.992	4.992	(0.890)	634587	11.9415	11.9
	41 1,1,1-Trichloroethane	97	5.227	5.227	(0.932)	1190392	11.9847	12.0
	42 1,2-Dichloroethane	62	5.233	5.233	(0.933)	911592	11.9590	12.0
	43 Benzene	78	5.462	5.462	(0.974)	1576192	11.7564	11.8
	44 Carbon tetrachloride	117	5.481	5.481	(0.977)	1184371	12.3314	12.3
	45 Cyclohexane	56	5.484	5.484	(0.978)	895528	11.6236	11.6
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(0.998)	1585653	11.8713	11.9
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	2324391	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.767	(1.028)	6871004	29.2497	29.2
	49 Heptane	43	5.886	5.886	(1.049)	1021951	12.0781	12.1
	50 1,2-Dichloropropane	63	5.963	5.963	(1.063)	637221	12.0863	12.1
	51 Trichloroethene	130	5.986	5.986	(1.067)	843203	11.9841	12.0
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	568958	11.8795	11.9
	53 1,4-Dioxane	88	6.063	6.063	(1.081)	399079	12.1925	12.2
	54 Bromodichloromethane	83	6.082	6.082	(1.084)	1188052	12.7229	12.7
	55 Methylcyclohexane	98	6.433	6.433	(1.147)	468290	11.8063	11.8
	56 Methyl Isobutyl Ketone	43	6.526	6.526	(1.163)	3479723	30.2805	30.3
	57 cis-1,3-Dichloropropene	75	6.584	6.584	(1.174)	941437	12.4276	12.4
	58 trans-1,3-Dichloropropene	75	6.982	6.982	(1.245)	862618	11.2753	11.3
$	59 Toluene-d8 (S)	98	7.073	7.073	(1.261)	2045395	10.4380	10.4
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	673693	12.0480	12.0
	61 Toluene	91	7.150	7.150	(1.275)	1977888	12.1235	12.1
	62 Methyl Butyl Ketone	43	7.368	7.368	(0.853)	3250814	30.2330	30.2
	63 n-Octane	43	7.581	7.581	(0.877)	1361826	11.3369	11.3
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	1304493	12.3298	12.3
	65 1,2-Dibromoethane	107	7.905	7.905	(0.915)	1120500	11.7586	11.8
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	1075499	10.7416	10.7
*	67 Chlorobenzene - d5	117	8.642	8.642	(1.000)	1528809	10.0000	
	68 Chlorobenzene	112	8.683	8.683	(1.005)	1659150	11.4273	11.4
	69 Ethyl Benzene	91	8.931	8.931	(1.033)	2586296	11.5424	11.5
	70 m&p-Xylene	91	9.079	9.079	(1.051)	3891816	22.7330	22.7
	71 n-Nonane	43	9.471	9.471	(1.096)	1249379	11.7145	11.7
	72 Bromoform	173	9.478	9.478	(1.097)	1027225	12.5789	12.6
	73 Styrene	104	9.507	9.507	(1.100)	1516936	12.0587	12.1
	74 o-Xylene	91	9.577	9.577	(1.108)	1998503	11.3748	11.4
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1154799	12.1121	12.1
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	2736760	11.4929	11.5
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	3086303	12.3397	12.3
	78 4-Ethyltoluene	105	10.912	10.912	(1.263)	2602524	12.2430	12.2

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702_28028.D
Report Date: 03-Apr-2017 13:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.273)	2224470	11.9098	11.9
80	n-Decane	57	11.378	11.378	(2.028)	1334709	13.2608	13.3
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2300631	11.5364	11.5
82	1,2,4-Trimethylbenzene	105	11.510	11.510	(1.332)	2035722	12.2724	12.3
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.365)	1293921	11.3251	11.3
84	Sec- Butylbenzene	105	11.805	11.805	(1.366)	2872542	12.2047	12.2
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.372)	839400	11.5659	11.6(M)
86	Benzyl Chloride	91	11.863	11.863	(1.373)	1255708	10.6261	10.6
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.376)	1278482	11.7046	11.7
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	2493272	12.5899	12.6
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	1970131	12.3358	12.3
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	1196711	11.5767	11.6
91	N-Butylbenzene	91	12.461	12.461	(1.442)	1904029	11.9296	11.9
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	395982	10.7258	10.7
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.624)	279386	11.0043	11.0
94	Naphthalene	128	14.169	14.169	(1.640)	759769	11.1544	11.2
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	390151	11.8441	11.8

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702_28028.D
Report Date: 03-Apr-2017 13:41

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08702_28028.D
Lab Smp Id: 254689I
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m
Misc Info: 28028

Calibration Date: 28-MAR-2017
Calibration Time: 09:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

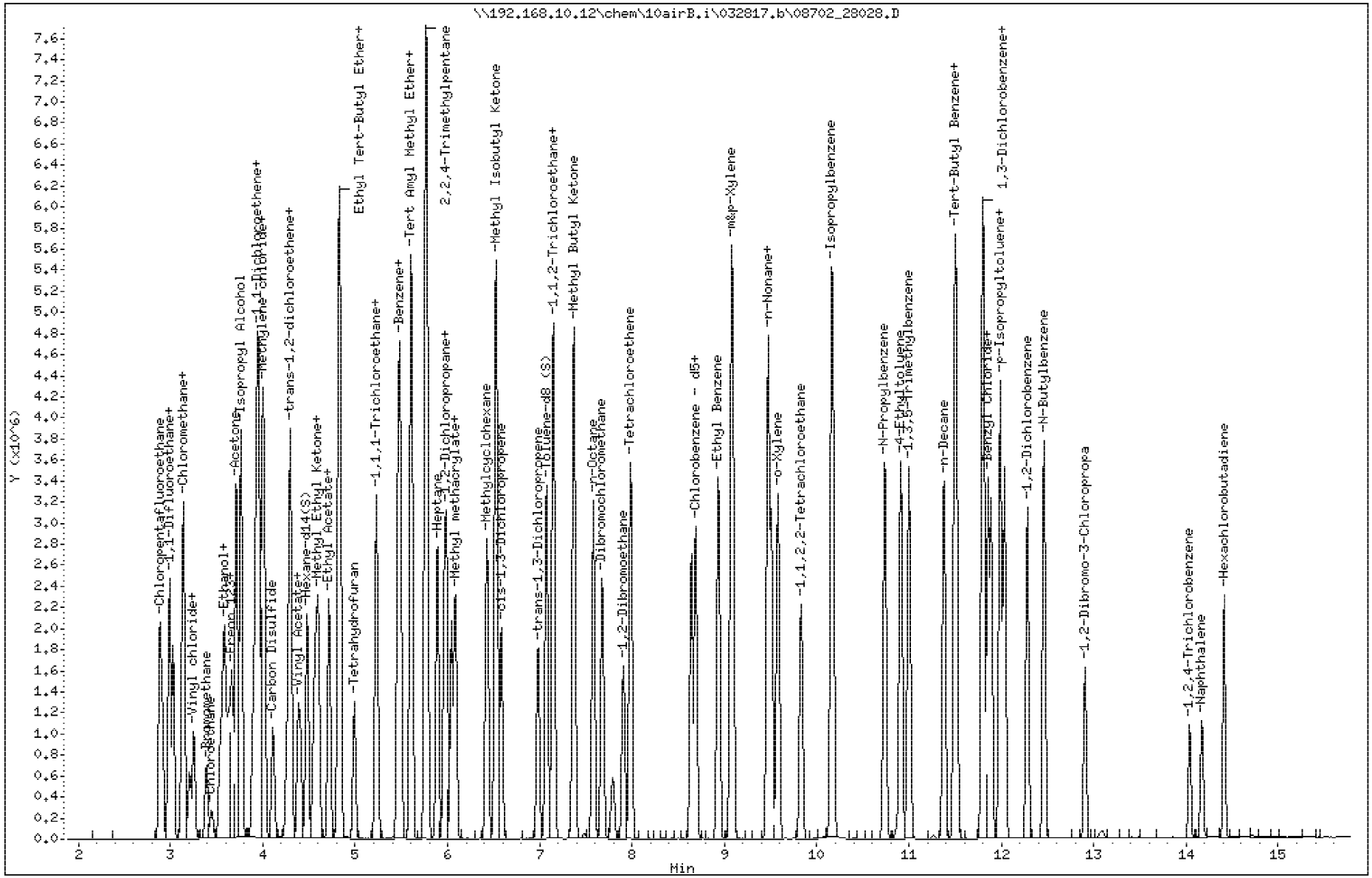
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	2831751	1699051	3964451	2324391	-17.92
67 Chlorobenzene - d	1804482	1082689	2526275	1528809	-15.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.64	8.31	8.97	8.64	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

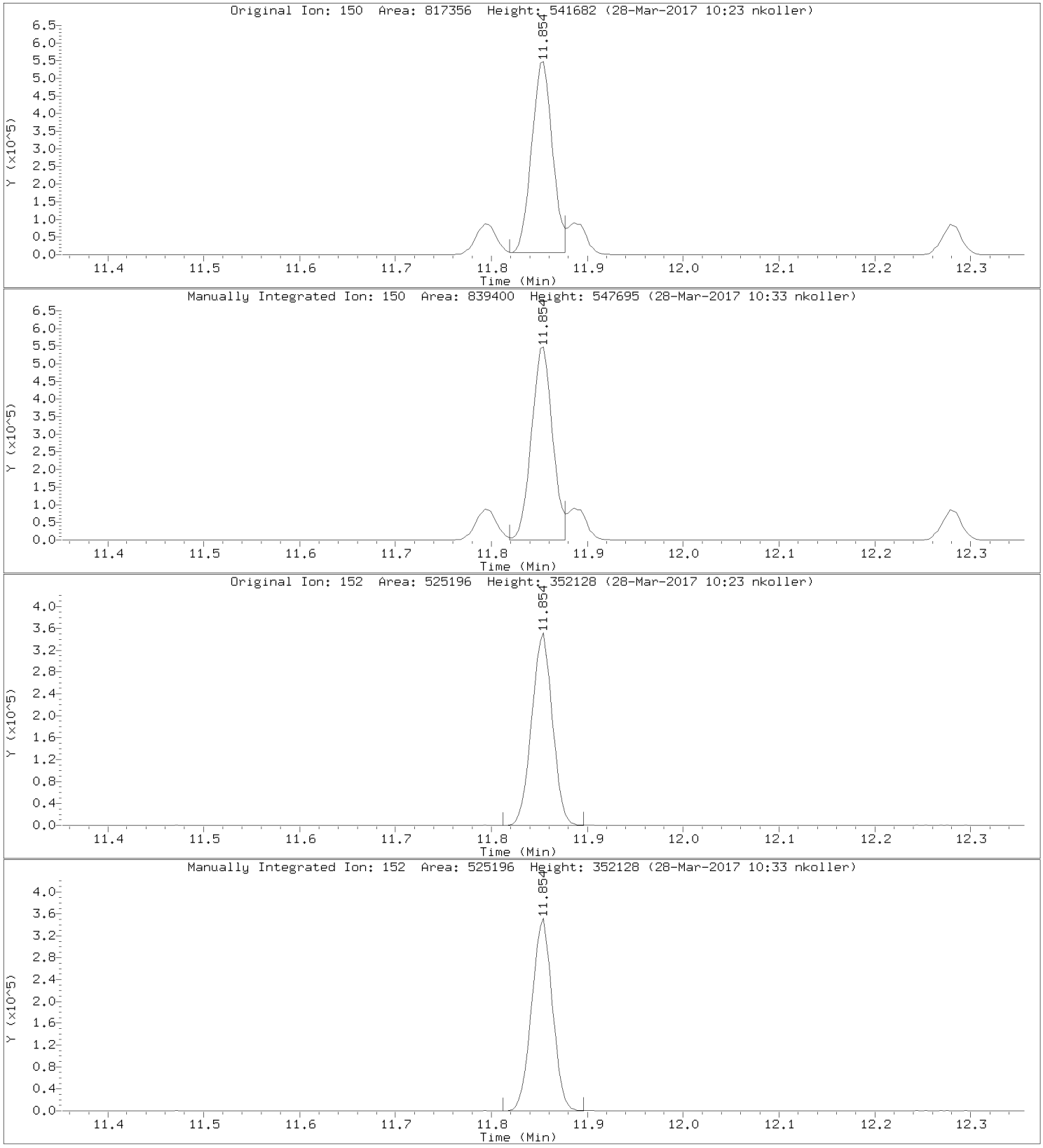
Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702_28028.D
Date : 28-MAR-2017 09:50
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\032817.b/08702.D
Injection Date: 28-MAR-2017 09:50
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932_28049.D
Report Date: 04-Apr-2017 12:02

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\033017.b\08932_28049.D
Lab Smp Id: 2549872
Inj Date : 31-MAR-2017 03:32
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 28049
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Meth Date : 04-Apr-2017 11:24 10airB.i Quant Type: ISTD
Cal Date : 30-MAR-2017 10:08 Cal File: 08851.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.986	2.986	(0.526)	250023	11.0765	11.1
2	1,1-Difluoroethane	65	3.086	3.086	(0.544)	324738	11.2490	11.2
3	Chlorodifluoromethane	67	3.076	3.076	(0.542)	136951	11.1931	11.2(QH)
4	Propylene	41	3.066	3.066	(0.540)	390235	10.2854	10.3
5	Dichlorodifluoromethane	85	3.114	3.114	(0.549)	1360994	10.3856	10.4(H)
6	Chloromethane	50	3.214	3.214	(0.567)	662682	11.5800	11.6(H)
7	Dichlorotetrafluoroethane	85	3.240	3.240	(0.571)	1319543	11.1068	11.1(H)
8	Vinyl chloride	62	3.304	3.304	(0.582)	550308	11.5258	11.5(H)
9	1,3-Butadiene	54	3.349	3.349	(0.590)	455180	12.3485	12.3
10	Bromomethane	94	3.484	3.484	(0.614)	498529	13.5138	13.5
11	Chloroethane	64	3.539	3.539	(0.624)	269538	11.6802	11.7
12	Ethanol	45	3.671	3.671	(0.647)	1127683	64.8522	64.9(M)
13	Vinyl Bromide	106	3.655	3.655	(0.644)	482129	13.7329	13.7
14	Isopentane	43	3.671	3.671	(0.647)	817434	16.6192	16.6
15	Freon 123	83	3.722	3.722	(0.656)	706862	12.1228	12.1(H)
16	Trichlorofluoromethane	101	3.745	3.745	(0.660)	1286318	13.7495	13.7(H)
17	Acrolein	56	3.761	3.761	(0.663)	490699	33.9058	33.9(H)
18	Acetone	43	3.806	3.806	(0.671)	4385058	66.6081	66.6(H)
19	Isopropyl Alcohol	45	3.905	3.905	(0.688)	5148330	70.9038	70.9(M)
20	1,1-Dichloroethene	61	3.976	3.976	(0.701)	886919	13.5289	13.5
21	Acrylonitrile	53	4.015	4.015	(0.708)	1094197	34.3324	34.3(H)
22	Freon 113	101	4.018	4.018	(0.708)	1027030	14.2651	14.3
23	Methyl Acetate	43	4.040	4.040	(0.712)	1066691	9.99312	9.99(QM)

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932_28049.D
Report Date: 04-Apr-2017 12:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	4.095	4.095	(0.722)	3032793	34.1634	34.2(QM)
	25 Methylene chloride	49	4.069	4.069	(0.717)	3179484	62.9084	62.9(H)
	26 Allyl Chloride	76	4.089	4.089	(0.721)	356805	31.9609	32.0(QH)
	27 Carbon Disulfide	76	4.188	4.188	(0.738)	1221790	13.2408	13.2(H)
	28 trans-1,2-dichloroethene	96	4.343	4.343	(0.765)	528036	15.6349	15.6
	29 Methyl Tert Butyl Ether	73	4.375	4.375	(0.771)	3562307	37.6252	37.6
	30 Vinyl Acetate	43	4.468	4.468	(0.787)	1492957	14.2680	14.3(H)
	31 1,1-Dichloroethane	63	4.484	4.484	(0.790)	1059367	14.7321	14.7(H)
$	32 Hexane-d14(S)	66	4.548	4.548	(0.802)	844712	12.1661	12.2(H)
	33 Methyl Ethyl Ketone	72	4.639	4.639	(0.818)	265990	14.5664	14.6(QM)
	34 n-Hexane	57	4.645	4.645	(0.819)	1023925	13.8574	13.9(QMH)
	35 Di-isopropyl Ether	45	4.677	4.677	(0.824)	2053249	13.8804	13.9
	36 Ethyl Acetate	43	4.796	4.796	(0.845)	1326452	13.8667	13.9
	37 cis-1,2-Dichloroethene	96	4.796	4.796	(0.845)	585610	15.0037	15.0
	38 Ethyl Tert-Butyl Ether	59	4.902	4.902	(0.864)	4784338	31.9166	31.9(H)
	39 Chloroform	83	4.915	4.915	(0.866)	1071937	13.4045	13.4
	40 Tetrahydrofuran	42	5.069	5.069	(0.893)	669204	11.9054	11.9(H)
	41 1,1,1-Trichloroethane	97	5.291	5.291	(0.933)	1204981	12.7260	12.7
	42 1,2-Dichloroethane	62	5.304	5.304	(0.935)	911329	11.8385	11.8
	43 Benzene	78	5.529	5.529	(0.975)	1567680	11.4702	11.5
	44 Carbon tetrachloride	117	5.542	5.542	(0.977)	1143720	13.2839	13.3
	45 Cyclohexane	56	5.539	5.539	(0.976)	904813	11.5950	11.6(H)
	46 Tert Amyl Methyl Ether	73	5.674	5.674	(1.000)	1571743	10.8889	10.9
*	47 1,4-Difluorobenzene	114	5.674	5.674	(1.000)	1818534	10.0000	
	48 2,2,4-Trimethylpentane	57	5.828	5.828	(1.027)	7063490	29.7133	29.7
	49 Heptane	43	5.944	5.944	(1.048)	1053546	11.6132	11.6(H)
	50 1,2-Dichloropropane	63	6.021	6.021	(1.061)	642376	11.8578	11.9(H)
	51 Trichloroethene	130	6.047	6.047	(1.066)	803685	11.5330	11.5
	52 Methyl methacrylate	69	6.108	6.108	(1.076)	568857	12.5172	12.5
	53 1,4-Dioxane	88	6.137	6.137	(1.082)	399618	11.8167	11.8
	54 Bromodichloromethane	83	6.146	6.146	(1.083)	1160133	11.0857	11.1(H)
	55 Methylcyclohexane	98	6.481	6.481	(1.142)	459244	11.8604	11.9
	56 Methyl Isobutyl Ketone	43	6.597	6.597	(1.163)	3614669	30.4608	30.5(H)
	57 cis-1,3-Dichloropropene	75	6.638	6.638	(1.170)	932138	10.6048	10.6
	58 trans-1,3-Dichloropropene	75	7.034	7.034	(1.240)	842595	10.3454	10.3
$	59 Toluene-d8 (S)	98	7.121	7.121	(1.255)	1569941	10.2244	10.2
	60 1,1,2-Trichloroethane	97	7.195	7.195	(1.268)	658280	11.9373	11.9
	61 Toluene	91	7.198	7.198	(1.269)	1944474	11.6785	11.7
	62 Methyl Butyl Ketone	43	7.433	7.433	(0.857)	3370216	31.4583	31.5
	63 n-Octane	43	7.616	7.616	(0.878)	1378228	11.2250	11.2
	64 Dibromochloromethane	129	7.728	7.728	(0.891)	1261548	10.6165	10.6
	65 1,2-Dibromoethane	107	7.947	7.947	(0.916)	1103843	11.9606	12.0
	66 Tetrachloroethene	166	8.021	8.021	(0.924)	1016001	10.6088	10.6
*	67 Chlorobenzene - d5	117	8.677	8.677	(1.000)	1176029	10.0000	
	68 Chlorobenzene	112	8.722	8.722	(1.005)	1597079	11.3137	11.3
	69 Ethyl Benzene	91	8.970	8.970	(1.034)	2544387	11.4964	11.5
	70 m&p-Xylene	91	9.111	9.111	(1.050)	3817944	22.9349	22.9
	71 n-Nonane	43	9.497	9.497	(1.094)	1303188	12.0629	12.1
	72 Bromoform	173	9.516	9.516	(1.097)	988612	10.6254	10.6
	73 Styrene	104	9.539	9.539	(1.099)	1482342	11.9807	12.0
	74 o-Xylene	91	9.613	9.613	(1.108)	1952302	11.4103	11.4
	75 1,1,2,2-Tetrachloroethane	83	9.860	9.860	(1.136)	1145624	12.5680	12.6
	76 Isopropylbenzene	105	10.188	10.188	(1.174)	2669722	11.4192	11.4
	77 N-Propylbenzene	91	10.764	10.764	(1.240)	3046086	12.5655	12.6

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932_28049.D
Report Date: 04-Apr-2017 12:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.937	10.937	(1.260)	2609385	12.7521	12.8
79	1,3,5-Trimethylbenzene	105	11.024	11.024	(1.270)	2187307	12.3086	12.3
80	n-Decane	57	11.397	11.397	(2.009)	1384035	10.4862	10.5
81	Tert-Butyl Benzene	119	11.516	11.516	(1.327)	2227512	11.8724	11.9
82	1,2,4-Trimethylbenzene	105	11.532	11.532	(1.329)	1986479	12.3355	12.3
83	1,3-Dichlorobenzene	146	11.815	11.815	(1.362)	1250223	10.2898	10.3
84	Sec- Butylbenzene	105	11.825	11.825	(1.363)	2820585	12.0686	12.1
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.870	11.870	(1.368)	627964	11.7115	11.7
86	Benzyl Chloride	91	11.883	11.883	(1.369)	1247491	10.3660	10.4
87	1,4-Dichlorobenzene	146	11.905	11.905	(1.372)	1251599	10.8450	10.8
88	p-Isopropyltoluene	119	12.005	12.005	(1.384)	2440744	12.6758	12.7
89	1,2,3-Trimethylbenzene	105	12.053	12.053	(1.389)	1939756	12.4285	12.4
90	1,2-Dichlorobenzene	146	12.297	12.297	(1.417)	1187050	10.3808	10.4
91	N-Butylbenzene	91	12.474	12.474	(1.438)	1920907	10.3757	10.4
92	1,2-Dibromo-3-Chloropropane	157	12.918	12.918	(1.489)	391613	10.0391	10.0
93	1,2,4-Trichlorobenzene	180	14.046	14.046	(1.619)	291959	9.79342	9.79
94	Naphthalene	128	14.182	14.182	(1.634)	793897	9.81319	9.81
95	Hexachlorobutadiene	225	14.419	14.419	(1.662)	391764	10.7134	10.7

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932_28049.D
Report Date: 04-Apr-2017 12:02

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 08932_28049.D
Lab Smp Id: 2549872
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Misc Info: 28049

Calibration Date: 31-MAR-2017
Calibration Time: 03:32
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

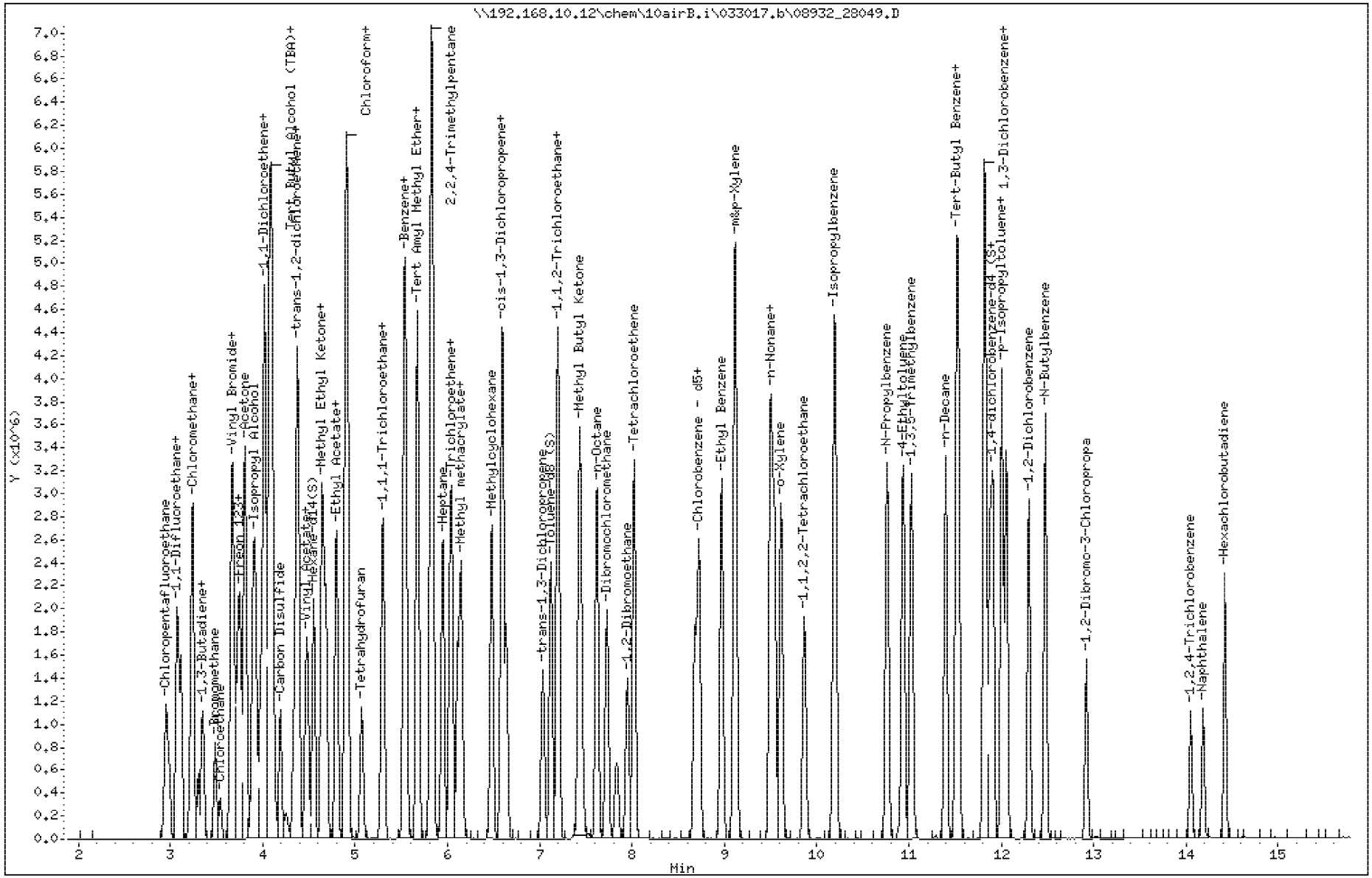
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1822435	1093461	2551409	1818534	-0.21
67 Chlorobenzene - d	1204744	722846	1686642	1176029	-2.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.67	5.34	6.00	5.67	0.00
67 Chlorobenzene - d	8.68	8.35	9.01	8.68	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

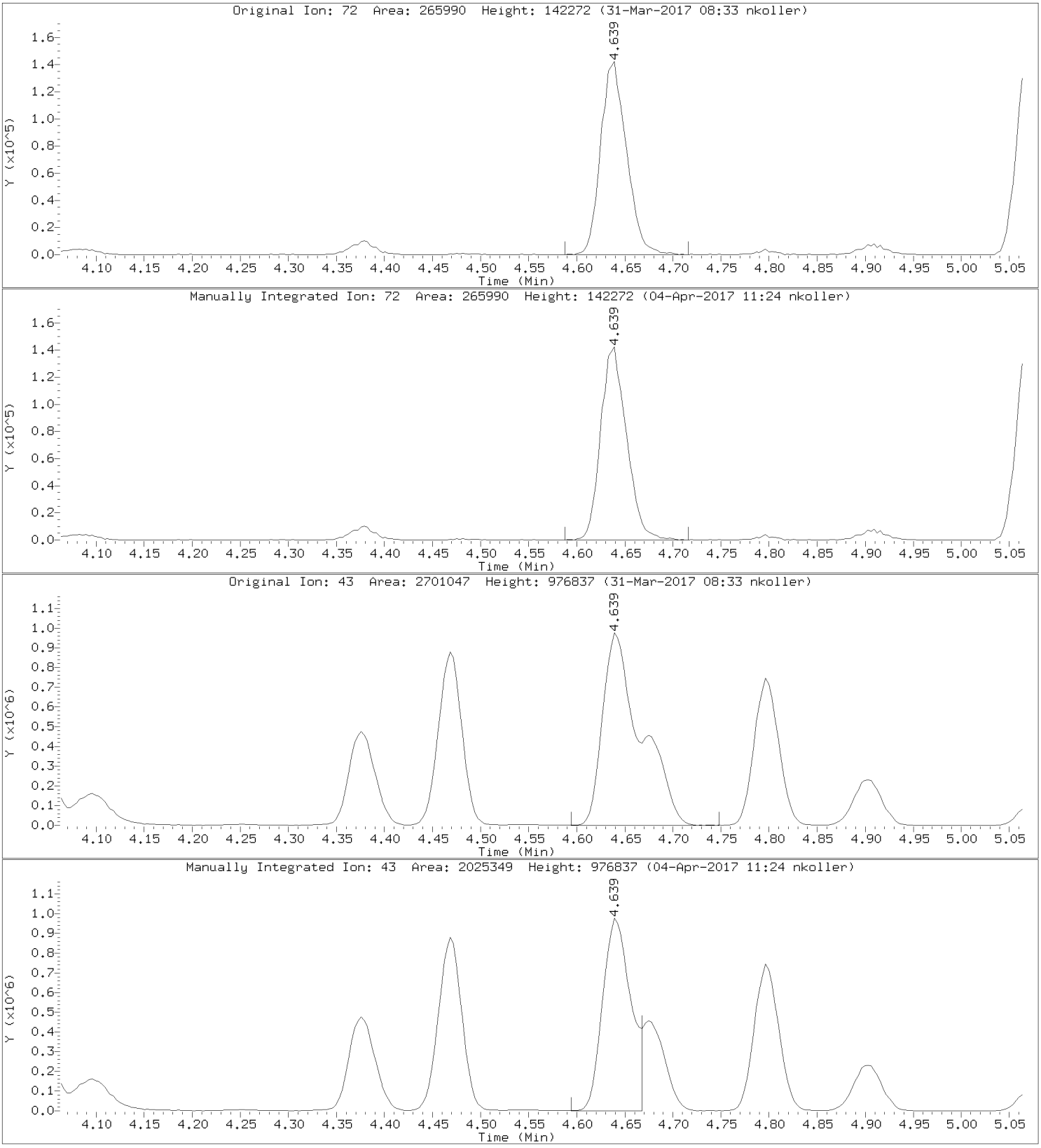
Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932_28049.D
Date : 31-MAR-2017 03:32
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



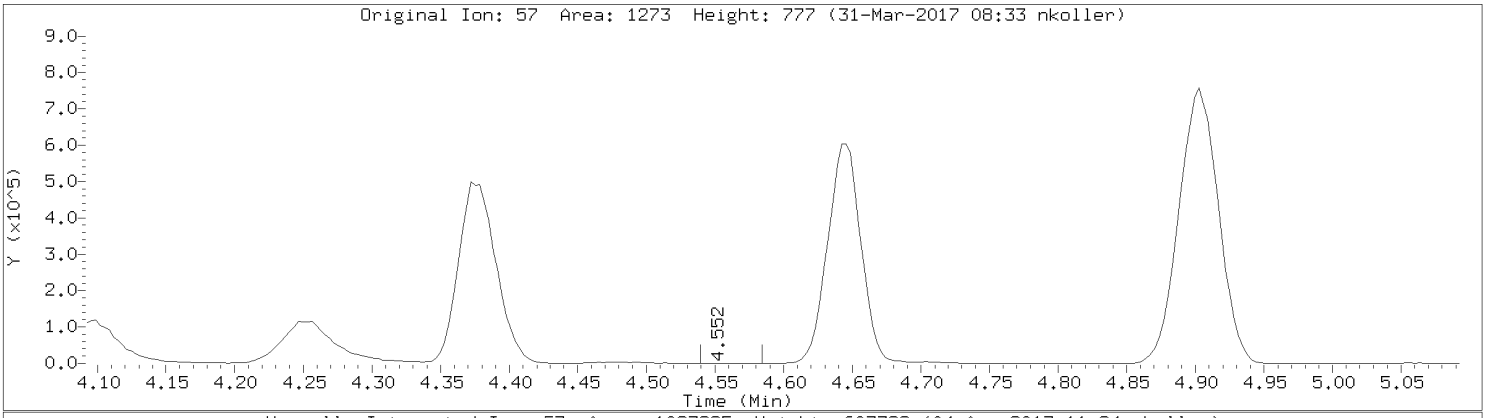
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

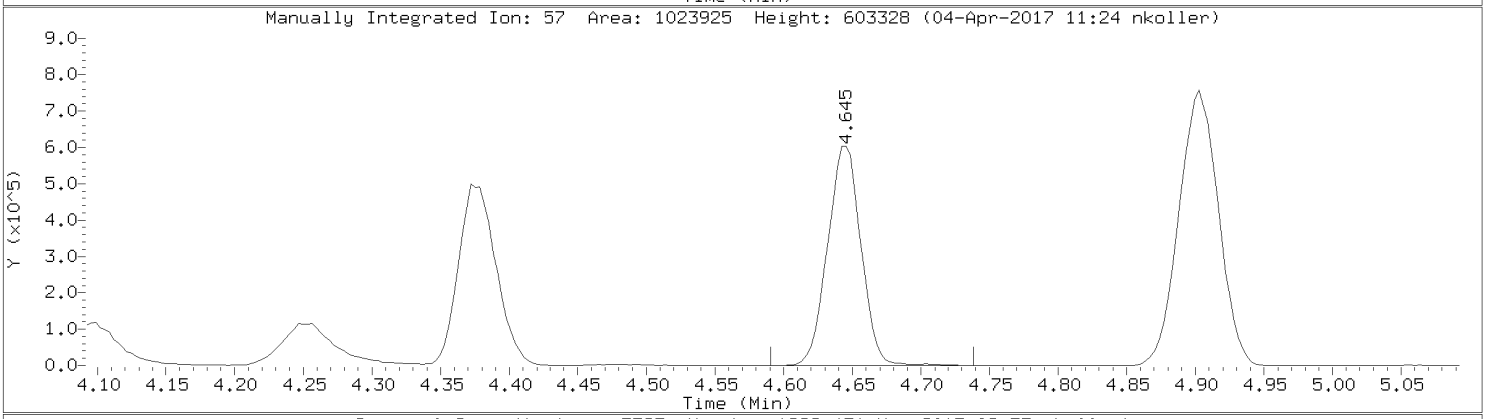
Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

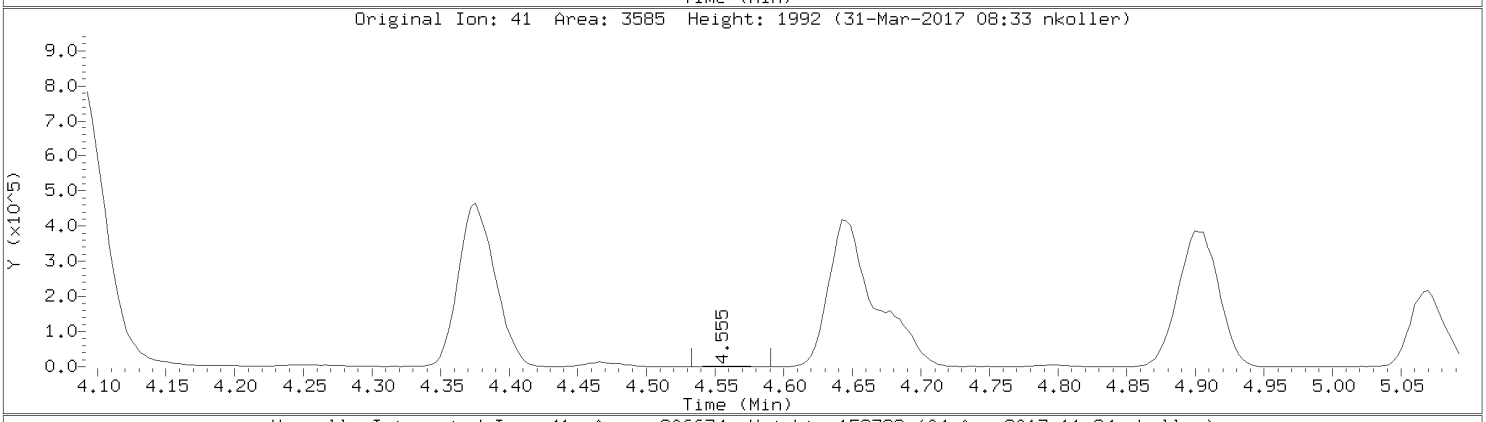


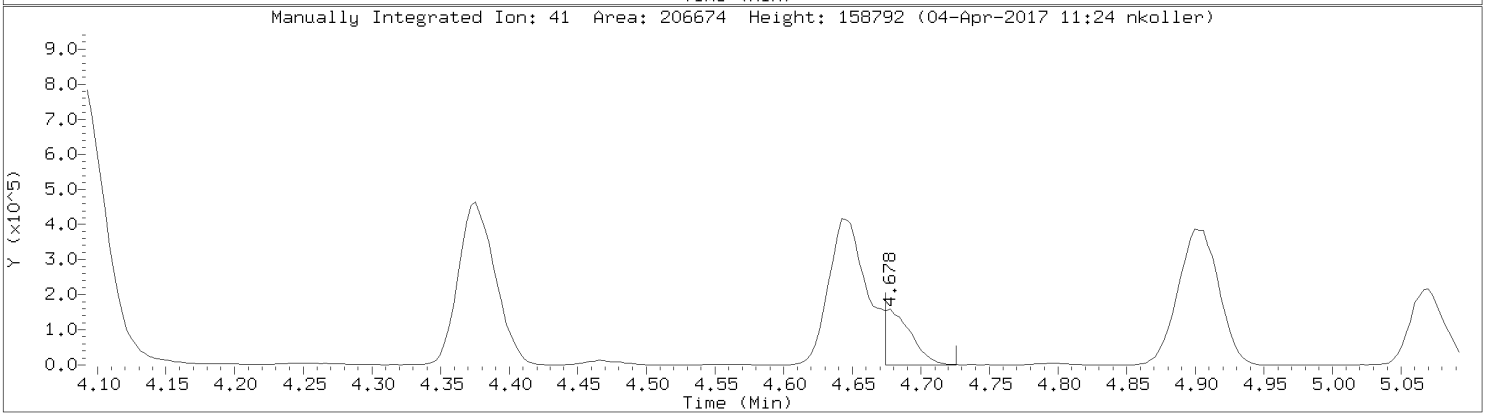
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: n-Hexane
CAS Number: 110-54-3

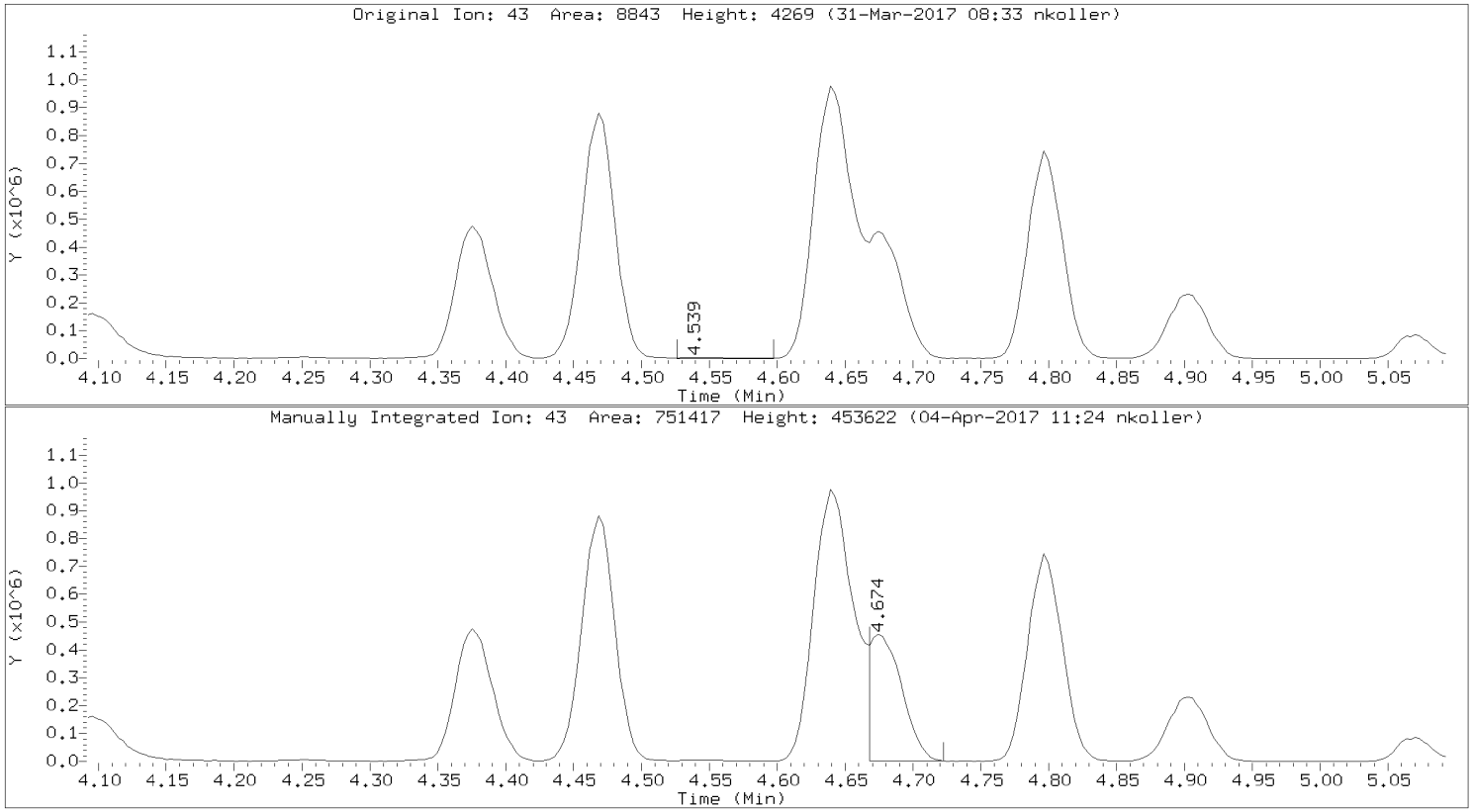






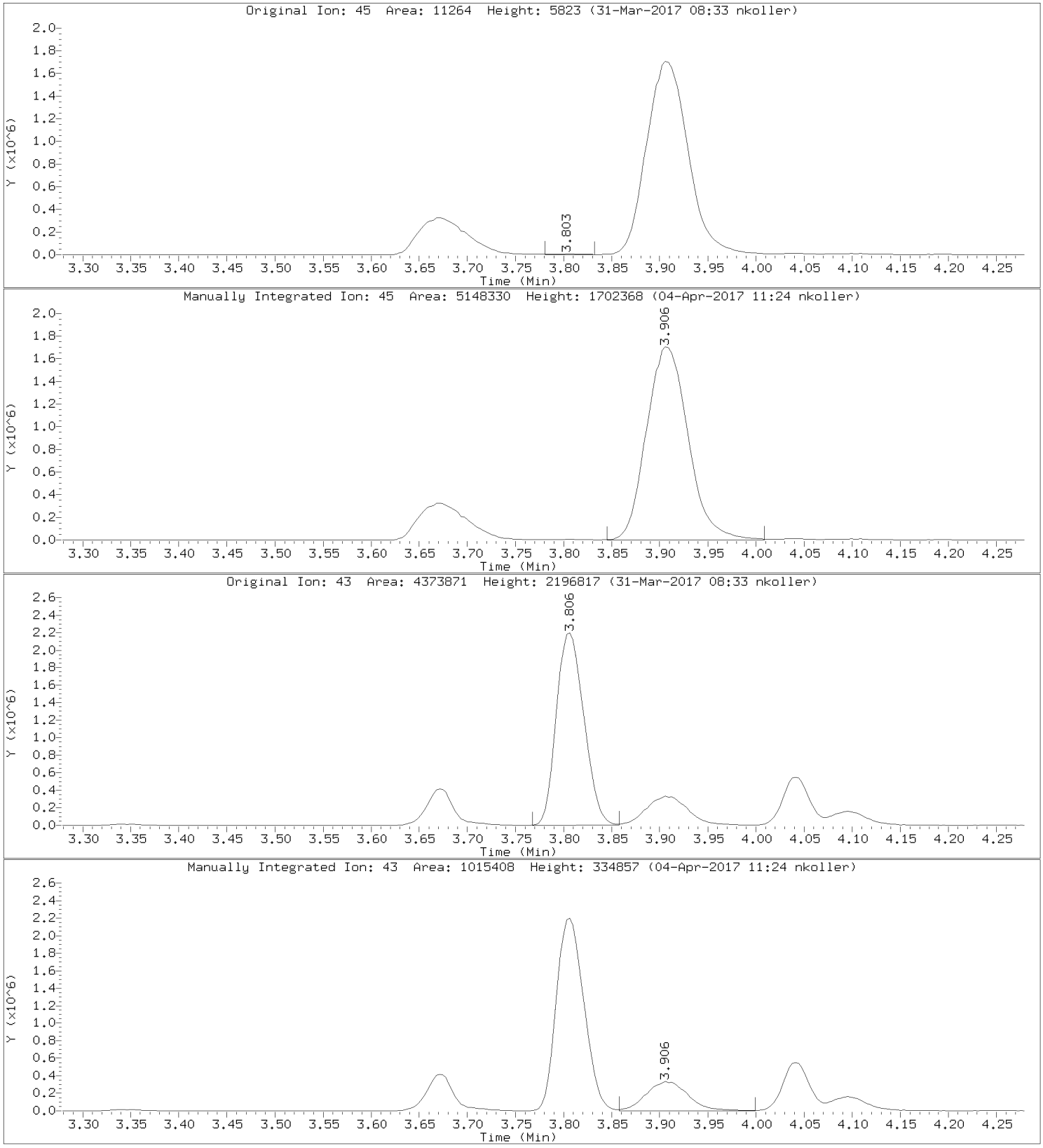


Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv



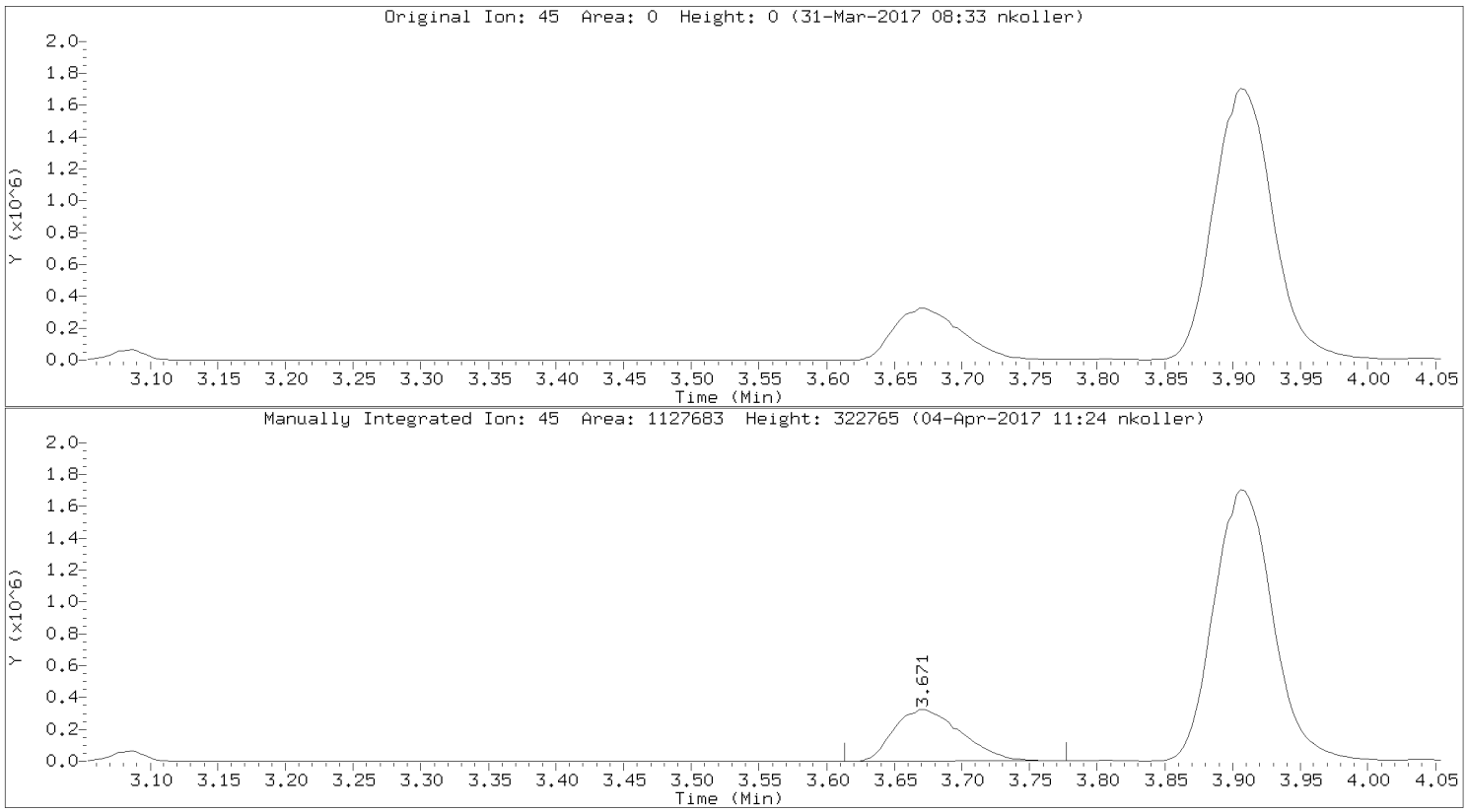
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



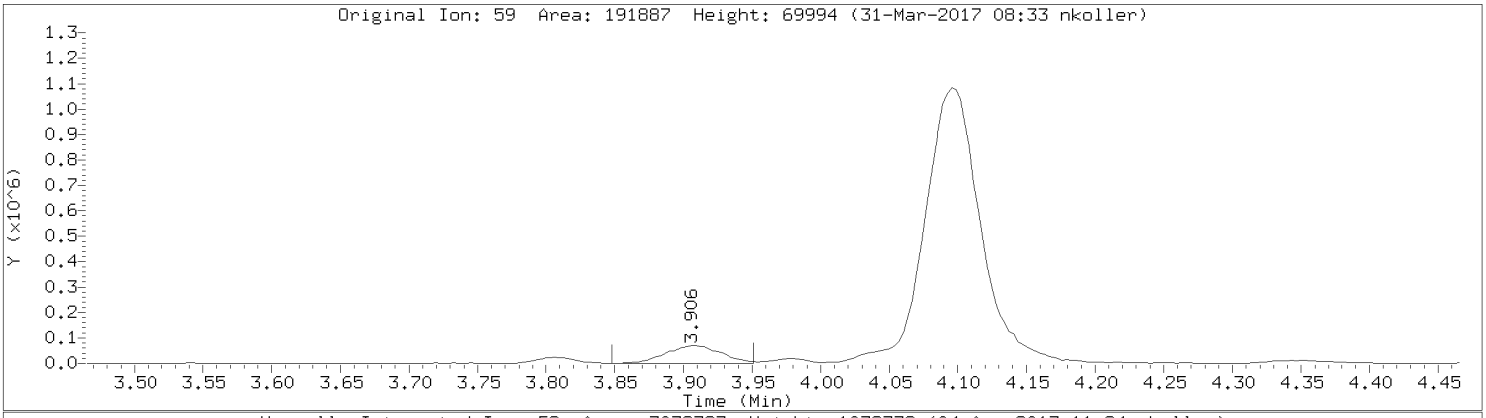
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

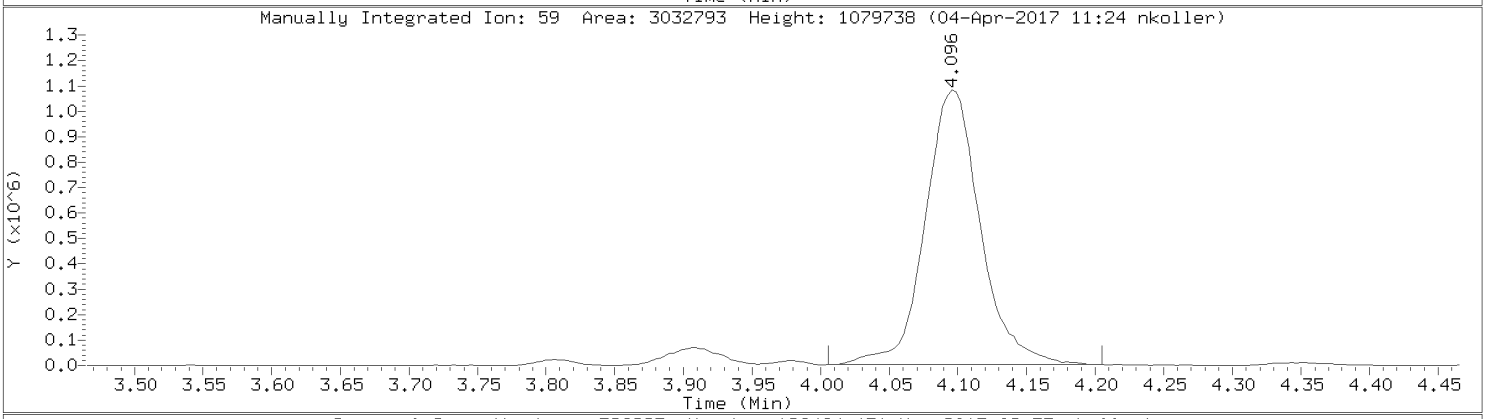
Compound: Ethanol
CAS Number: 64-17-5

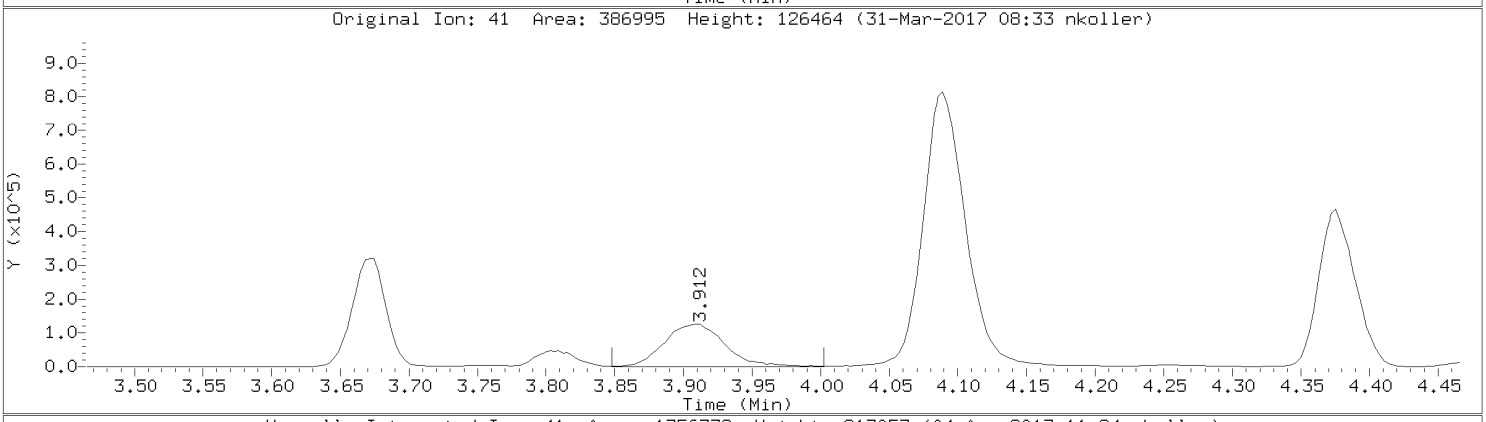


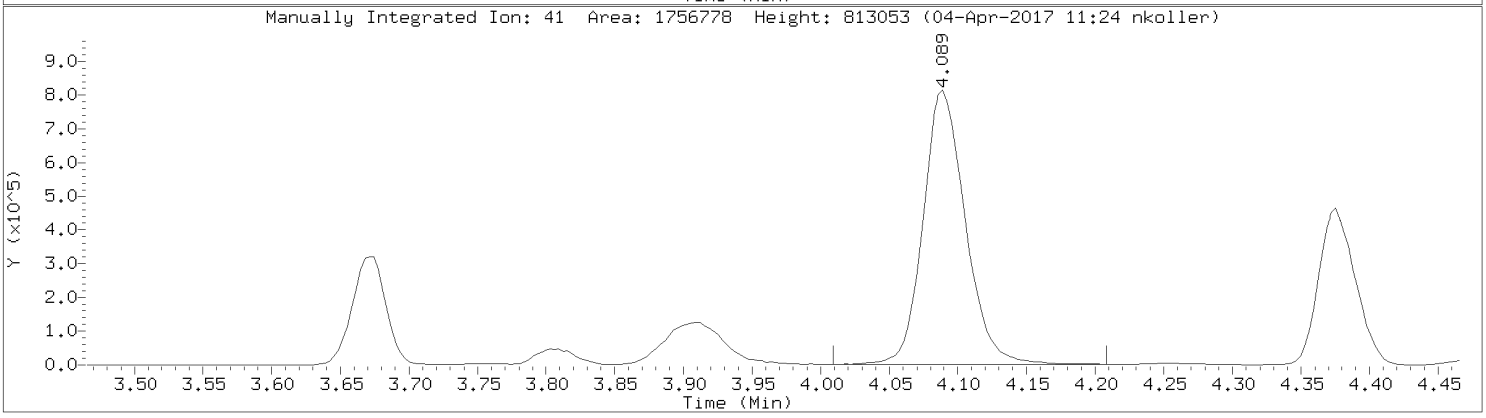
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0



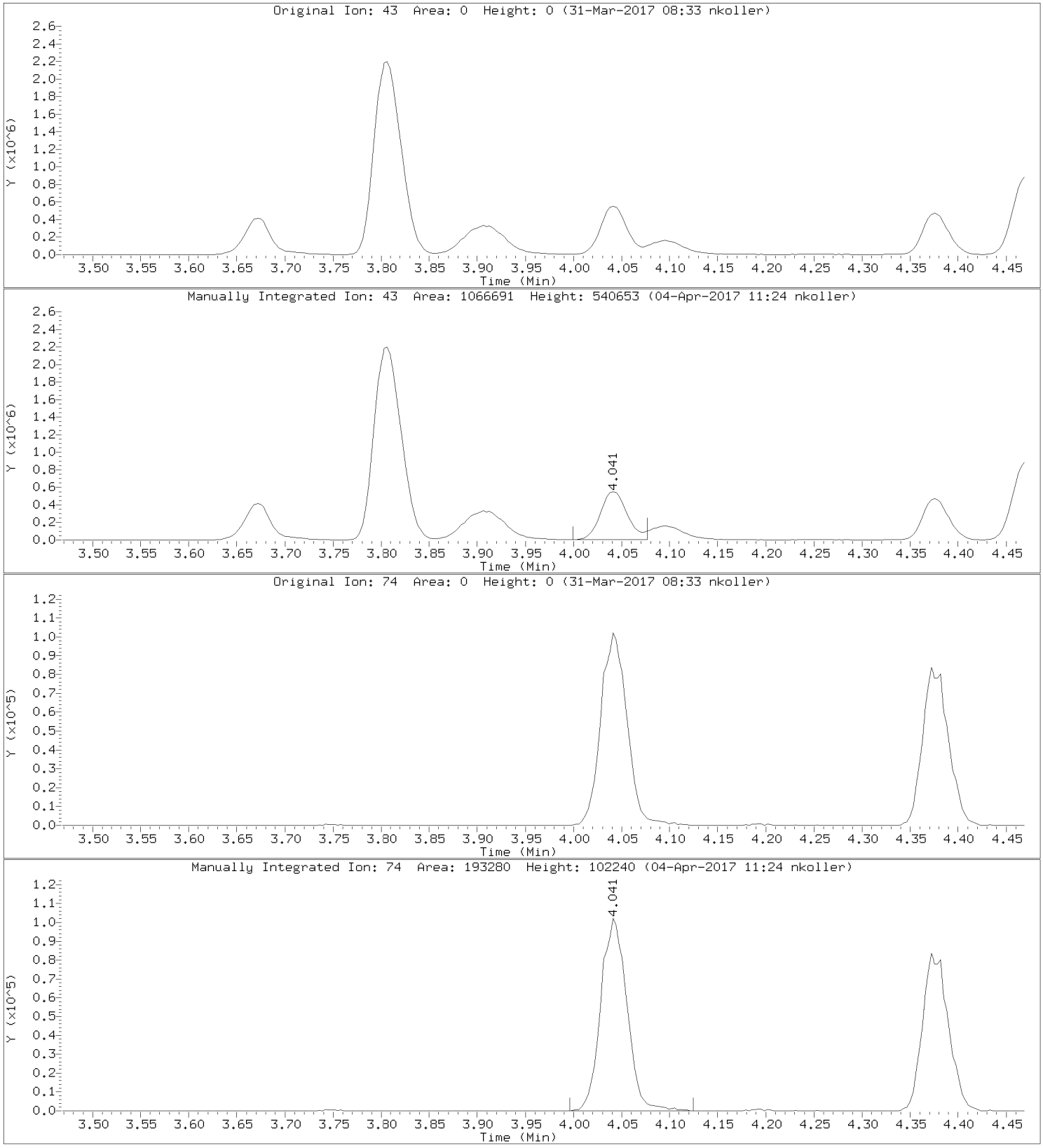




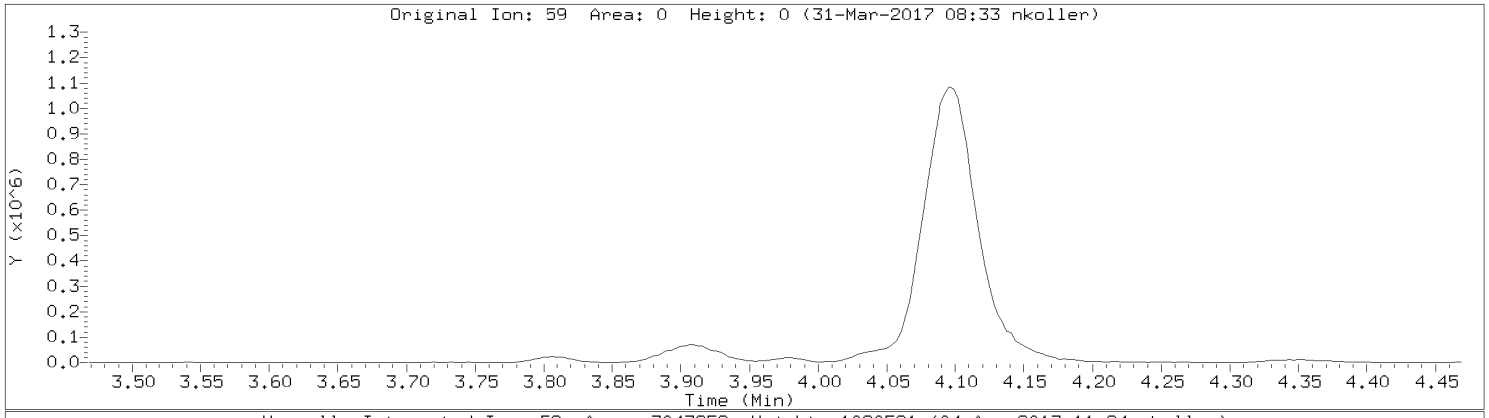


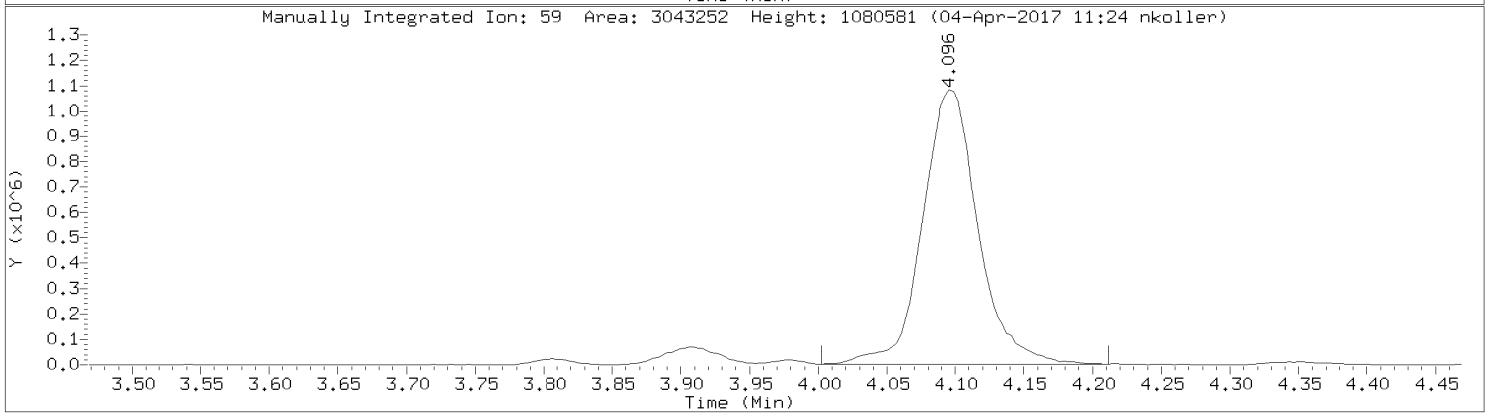
Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv

Compound: Methyl Acetate
CAS Number: 79-20-9



Data File: \\192.168.10.12\chem\10airB.i\033017.b/08932.D
Injection Date: 31-MAR-2017 03:32
Instrument: 10airB.i
Lab Sample ID: ccv





Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202l.D
Report Date: 03-Apr-2017 15:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\040217.b\09202l.D
Lab Smp Id: 2550308
Inj Date : 02-APR-2017 08:56
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 28055
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m
Meth Date : 03-Apr-2017 14:27 drandall Quant Type: ISTD
Cal Date : 31-MAR-2017 18:28 Cal File: 09008.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRRC92

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.954	2.954	(0.526)	264862	7.82152	7.82
2	1,1-Difluoroethane	65	3.028	3.028	(0.539)	305470	11.6843	11.7
3	Chlorodifluoromethane	67	3.034	3.034	(0.541)	130989	11.1419	11.1
4	Propylene	41	3.038	3.038	(0.541)	378218	11.3767	11.4
5	Dichlorodifluoromethane	85	3.070	3.070	(0.547)	1320570	10.6851	10.7(H)
6	Chloromethane	50	3.166	3.166	(0.564)	631138	11.6693	11.7
7	Dichlorotetrafluoroethane	85	3.176	3.176	(0.566)	1252351	11.6755	11.7
8	Vinyl chloride	62	3.243	3.243	(0.578)	490075	11.5210	11.5
9	1,3-Butadiene	54	3.288	3.288	(0.586)	391721	11.5175	11.5
10	Bromomethane	94	3.423	3.423	(0.610)	386392	11.8503	11.9
11	Chloroethane	64	3.472	3.472	(0.619)	214699	11.8624	11.9
12	Ethanol	45	3.549	3.549	(0.632)	927339	59.7801	59.8
13	Vinyl Bromide	106	3.587	3.587	(0.639)	385162	12.2587	12.3
14	Isopentane	43	3.607	3.607	(0.643)	500298	11.1869	11.2
15	Freon 123	83	3.639	3.639	(0.648)	870829	11.7561	11.8(M)
16	Trichlorofluoromethane	101	3.681	3.681	(0.656)	996584	11.9031	11.9
17	Acrolein	56	3.690	3.690	(0.657)	447235	31.3224	31.3
18	Acetone	43	3.726	3.726	(0.664)	3442823	57.5608	57.6
19	Isopropyl Alcohol	45	3.771	3.771	(0.672)	3916968	57.8161	57.8
20	1,1-Dichloroethene	61	3.919	3.919	(0.698)	714470	11.9061	11.9
21	Acrylonitrile	53	3.931	3.931	(0.700)	929581	29.0805	29.1
22	Freon 113	101	3.957	3.957	(0.705)	756861	10.9647	11.0
23	Methyl Acetate	43	3.964	3.964	(0.706)	1109573	11.0701	11.1

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202l.D
Report Date: 03-Apr-2017 15:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.960	3.960	(0.706)	2228985	27.0730	27.1	
	25 Methylene chloride	49	4.012	4.012	(0.715)	2628496	54.9722	55.0	
	26 Allyl Chloride	76	4.025	4.025	(0.717)	376377	33.1639	33.2	
	27 Carbon Disulfide	76	4.134	4.134	(0.737)	875581	11.8872	11.9	
	28 trans-1,2-dichloroethene	96	4.282	4.282	(0.763)	366118	11.1191	11.1	
	29 Methyl Tert Butyl Ether	73	4.308	4.308	(0.767)	2380570	27.7927	27.8	
	30 Vinyl Acetate	43	4.394	4.394	(0.783)	1265373	11.9188	11.9	
	31 1,1-Dichloroethane	63	4.417	4.417	(0.787)	753684	11.7089	11.7	
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	623380	9.86170	9.86	
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	182413	10.7829	10.8	
	34 n-Hexane	57	4.587	4.587	(0.817)	705054	10.9592	11.0(M)	
	35 Di-isopropyl Ether	45	4.607	4.607	(0.821)	1530651	11.3231	11.3	
	36 Ethyl Acetate	43	4.719	4.719	(0.841)	991355	11.0327	11.0	
	37 cis-1,2-Dichloroethene	96	4.729	4.729	(0.842)	409051	11.2672	11.3	
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.861)	3919293	30.9257	30.9	
	39 Chloroform	83	4.845	4.845	(0.863)	891144	13.1222	13.1	
	40 Tetrahydrofuran	42	4.996	4.996	(0.890)	602631	11.4995	11.5	
	41 1,1,1-Trichloroethane	97	5.234	5.234	(0.932)	1058187	12.0552	12.1	
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	822488	11.4085	11.4	
	43 Benzene	78	5.471	5.471	(0.975)	1455161	11.5162	11.5	
	44 Carbon tetrachloride	117	5.488	5.488	(0.978)	1099585	12.4840	12.5	
	45 Cyclohexane	56	5.491	5.491	(0.978)	841394	11.5612	11.6	
	46 Tert Amyl Methyl Ether	73	5.607	5.607	(0.999)	1362870	9.99034	9.99	
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1675579	10.0000		
	48 2,2,4-Trimethylpentane	57	5.774	5.774	(1.029)	6514862	29.2787	29.3	
	49 Heptane	43	5.893	5.893	(1.050)	987769	11.3800	11.4	
	50 1,2-Dichloropropane	63	5.970	5.970	(1.064)	587011	11.3512	11.4	
	51 Trichloroethene	130	5.989	5.989	(1.067)	737210	10.8474	10.8	
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	522100	11.4309	11.4	
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	365502	11.7329	11.7	
	54 Bromodichloromethane	83	6.086	6.086	(1.084)	1091518	12.2613	12.3	
	55 Methylcyclohexane	98	6.436	6.436	(1.147)	424123	11.7514	11.8	
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	3405973	28.7587	28.8	
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	850641	12.1805	12.2	
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	802780	13.1170	13.1	
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1443637	10.2835	10.3	
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	623115	11.3191	11.3	
	61 Toluene	91	7.153	7.153	(1.274)	1816852	11.1885	11.2	
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	3156868	29.1555	29.2	
	63 n-Octane	43	7.581	7.581	(0.877)	1353543	11.0278	11.0	
	64 Dibromochloromethane	129	7.680	7.680	(0.888)	1225481	11.7598	11.8	
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	1058043	11.0517	11.1	
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	943862	9.89347	9.89	
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1077441	10.0000		
	68 Chlorobenzene	112	8.687	8.687	(1.005)	1533484	10.3728	10.4	
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	2462190	10.7602	10.8	
	70 m&p-Xylene	91	9.082	9.082	(1.051)	3693766	21.3641	21.4	
	71 n-Nonane	43	9.468	9.468	(1.095)	1268437	11.2784	11.3	
	72 Bromoform	173	9.481	9.481	(1.097)	1000575	12.7355	12.7	
	73 Styrene	104	9.507	9.507	(1.100)	1447641	11.1338	11.1	
	74 o-Xylene	91	9.577	9.577	(1.108)	1902296	10.5572	10.6	
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	1122425	11.0304	11.0	
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	2632494	10.4432	10.4	
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	3026683	11.6424	11.6	

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202l.D
Report Date: 03-Apr-2017 15:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	2594480	11.8107	11.8(M)
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	2160217	11.0302	11.0
80	n-Decane	57	11.378	11.378	(2.027)	1406816	13.2461	13.2
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	2231166	10.8734	10.9
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	2016298	11.4361	11.4
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	1274113	12.2154	12.2
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	2855426	11.1959	11.2
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	582829	11.9716	12.0
86	Benzyl Chloride	91	11.864	11.864	(1.372)	1271126	11.2003	11.2
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	1254355	12.4384	12.4
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	2466408	11.4805	11.5
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	1961251	11.1740	11.2
90	1,2-Dichlorobenzene	146	12.282	12.282	(1.421)	1187928	12.1722	12.2
91	N-Butylbenzene	91	12.462	12.462	(1.441)	1995961	13.0586	13.1
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	417182	10.6143	10.6
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.623)	337420	10.2577	10.3
94	Naphthalene	128	14.156	14.156	(1.637)	931549	9.74863	9.75
95	Hexachlorobutadiene	225	14.394	14.394	(1.665)	436088	11.6039	11.6

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202l.D
Report Date: 03-Apr-2017 15:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 09202l.D
Lab Smp Id: 2550308
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m
Misc Info: 28055

Calibration Date: 02-APR-2017
Calibration Time: 08:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

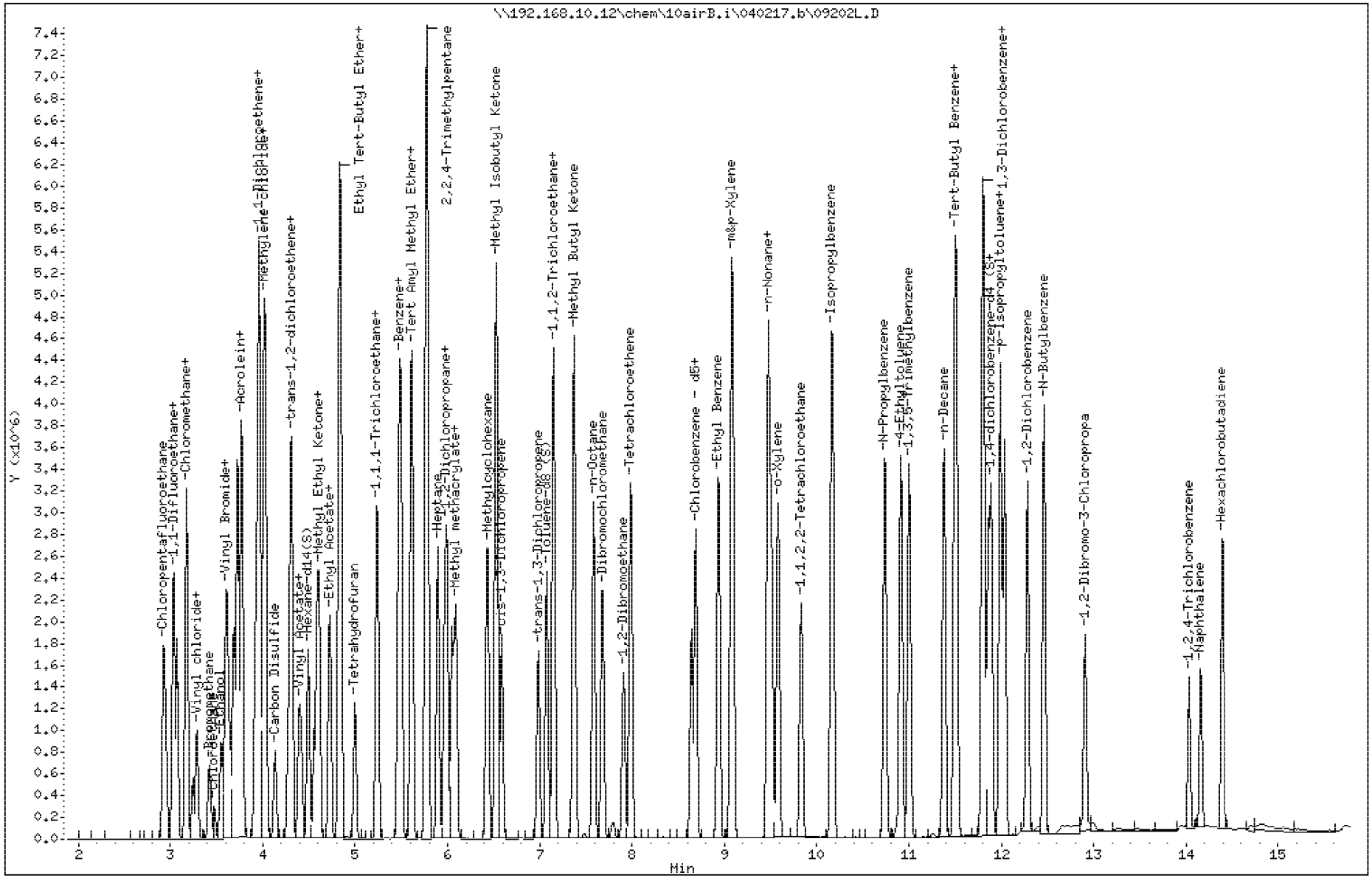
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1936758	1162055	2711461	1675579	-13.49
67 Chlorobenzene - d	1173864	704318	1643410	1077441	-8.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

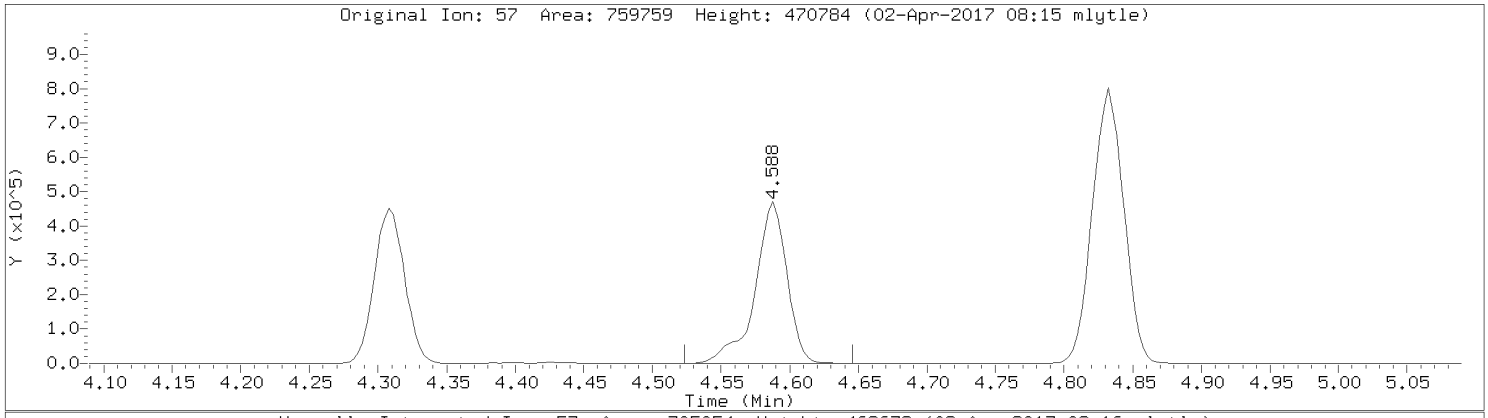
Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202L.D
Date : 02-APR-2017 08:56
Client ID:
Sample Info:

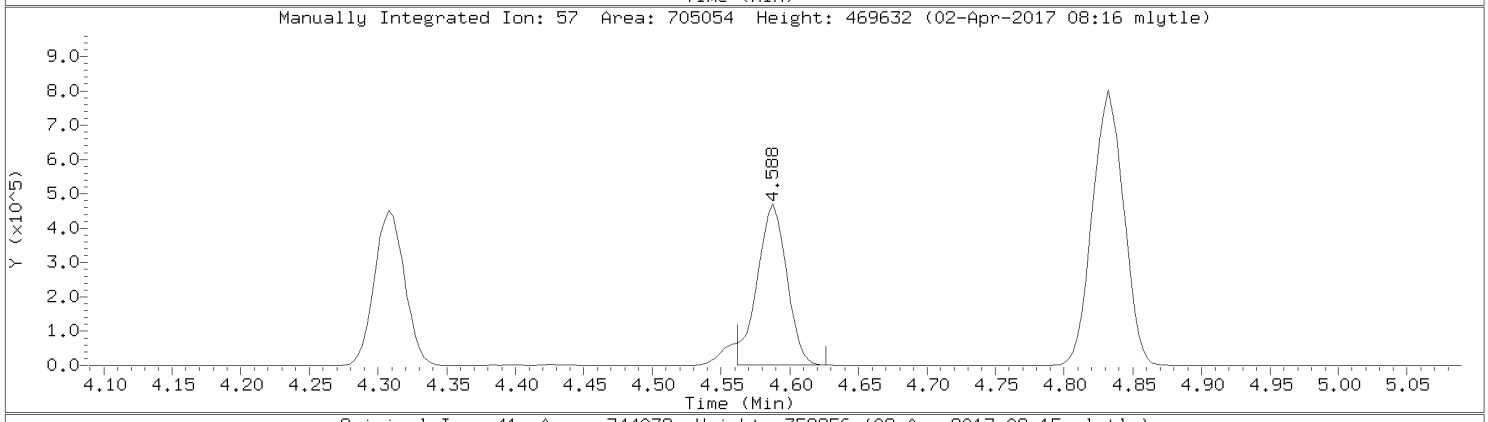
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

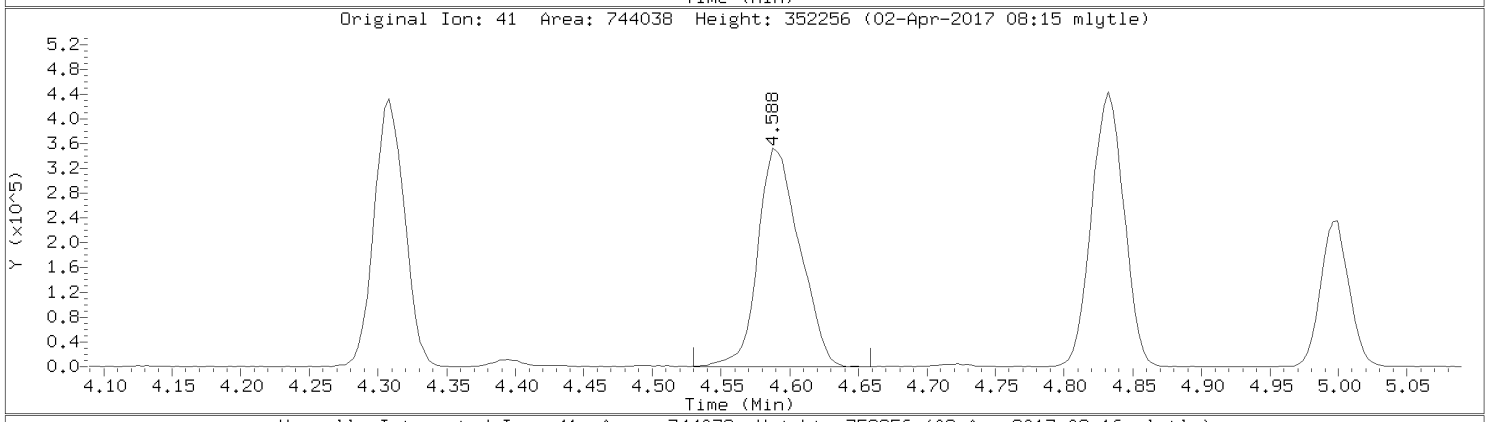


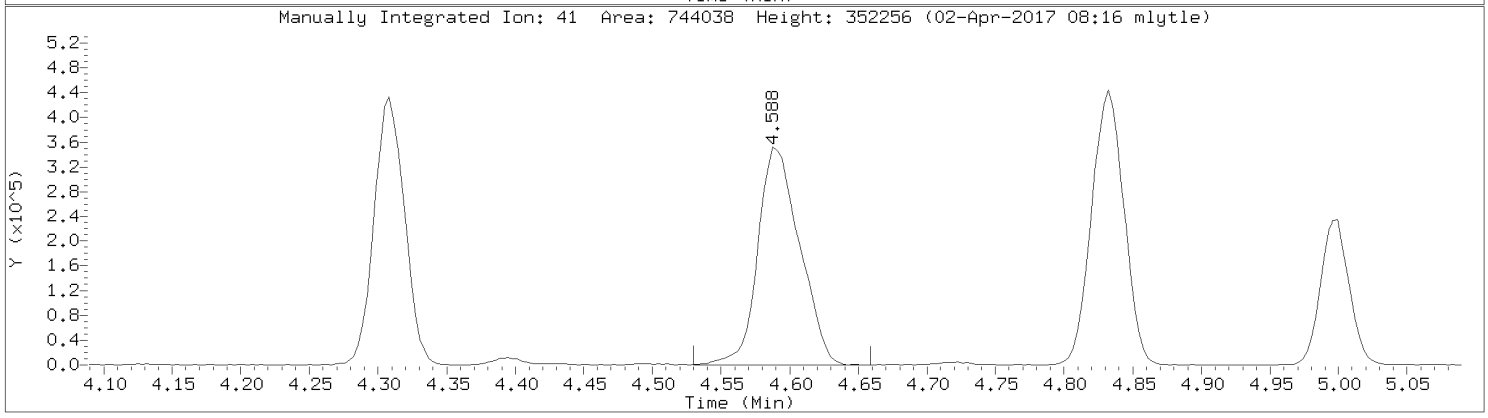
Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

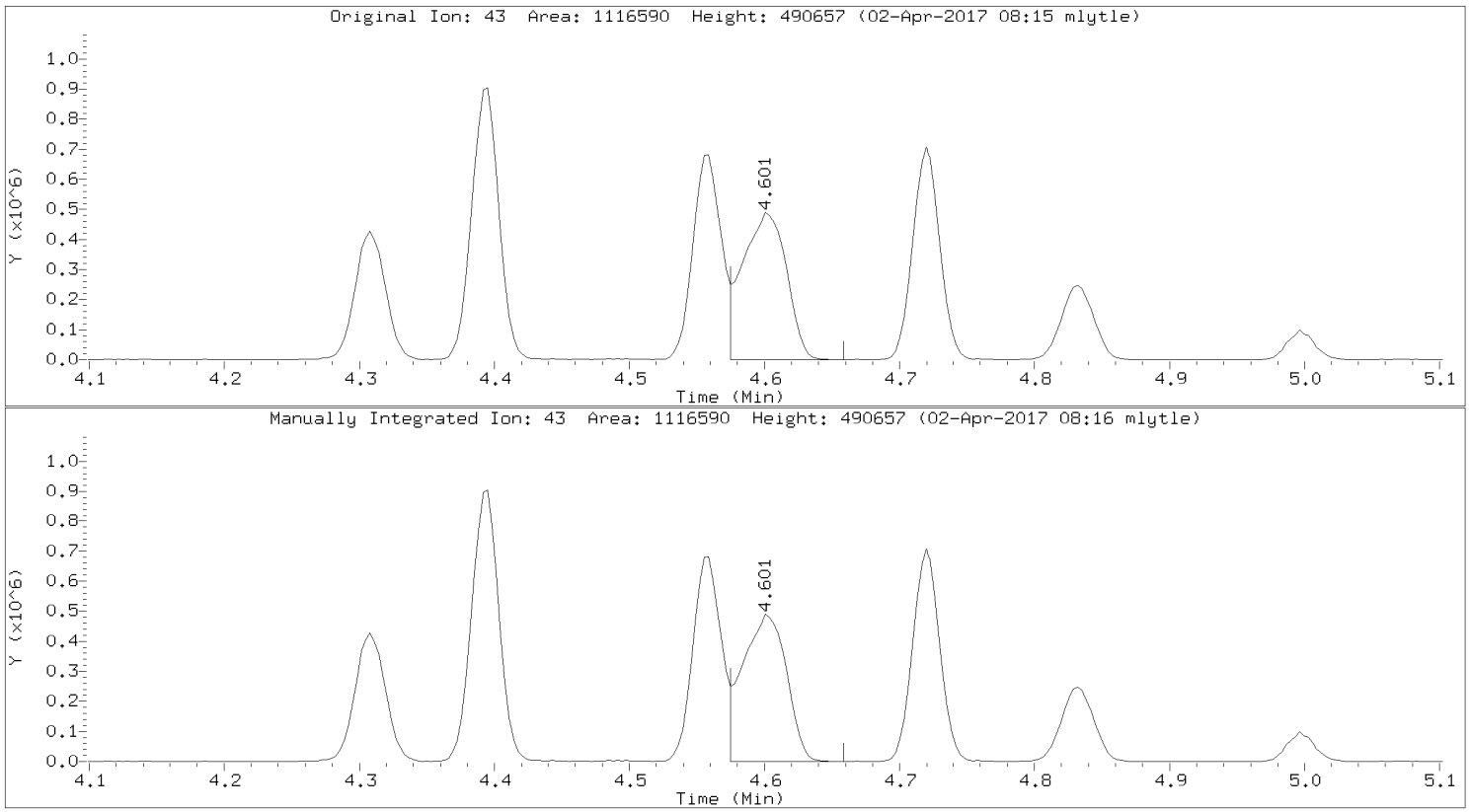






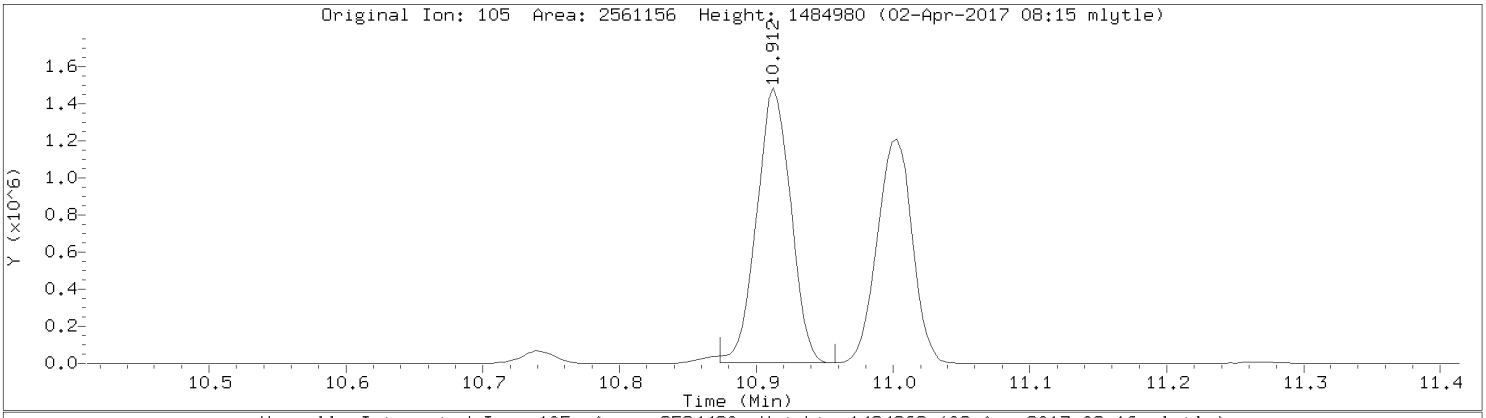


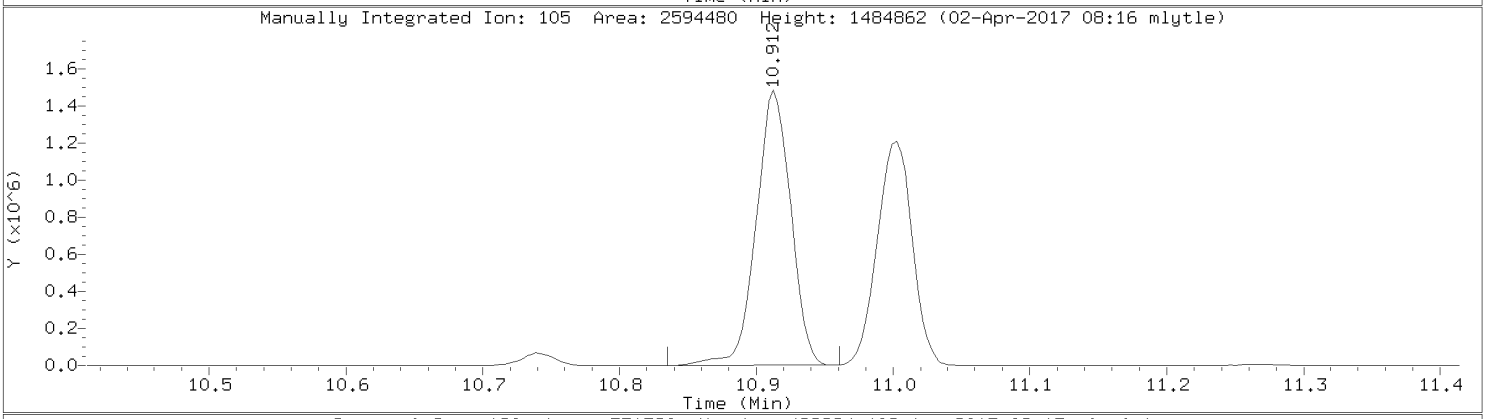
Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV

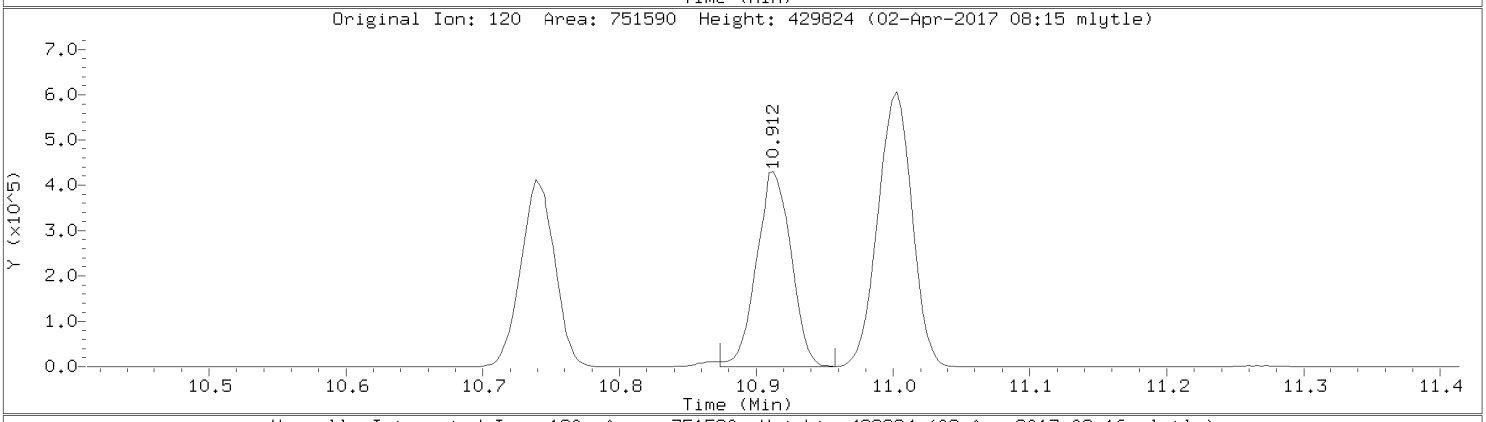


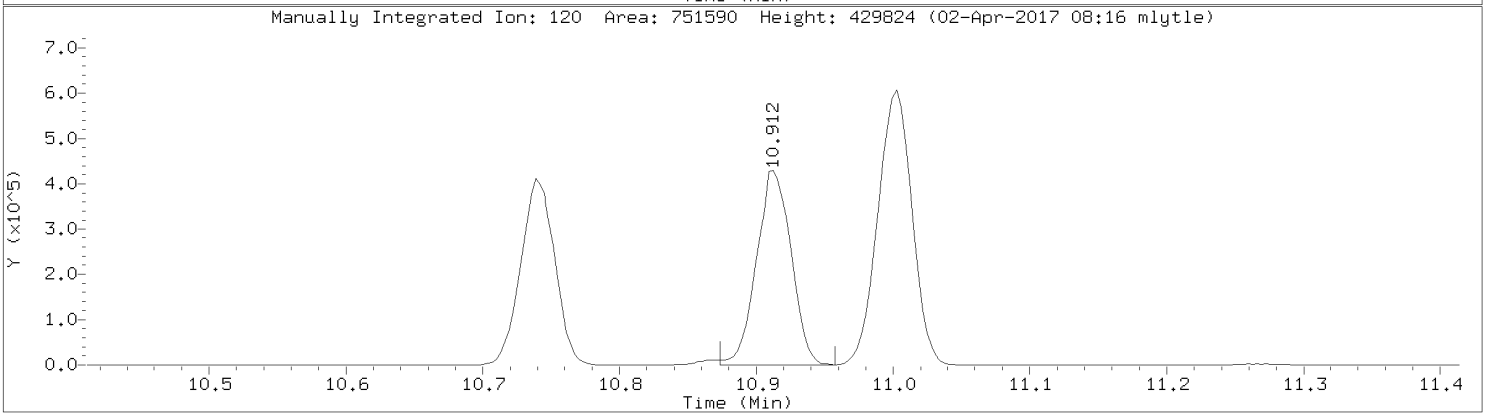
Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

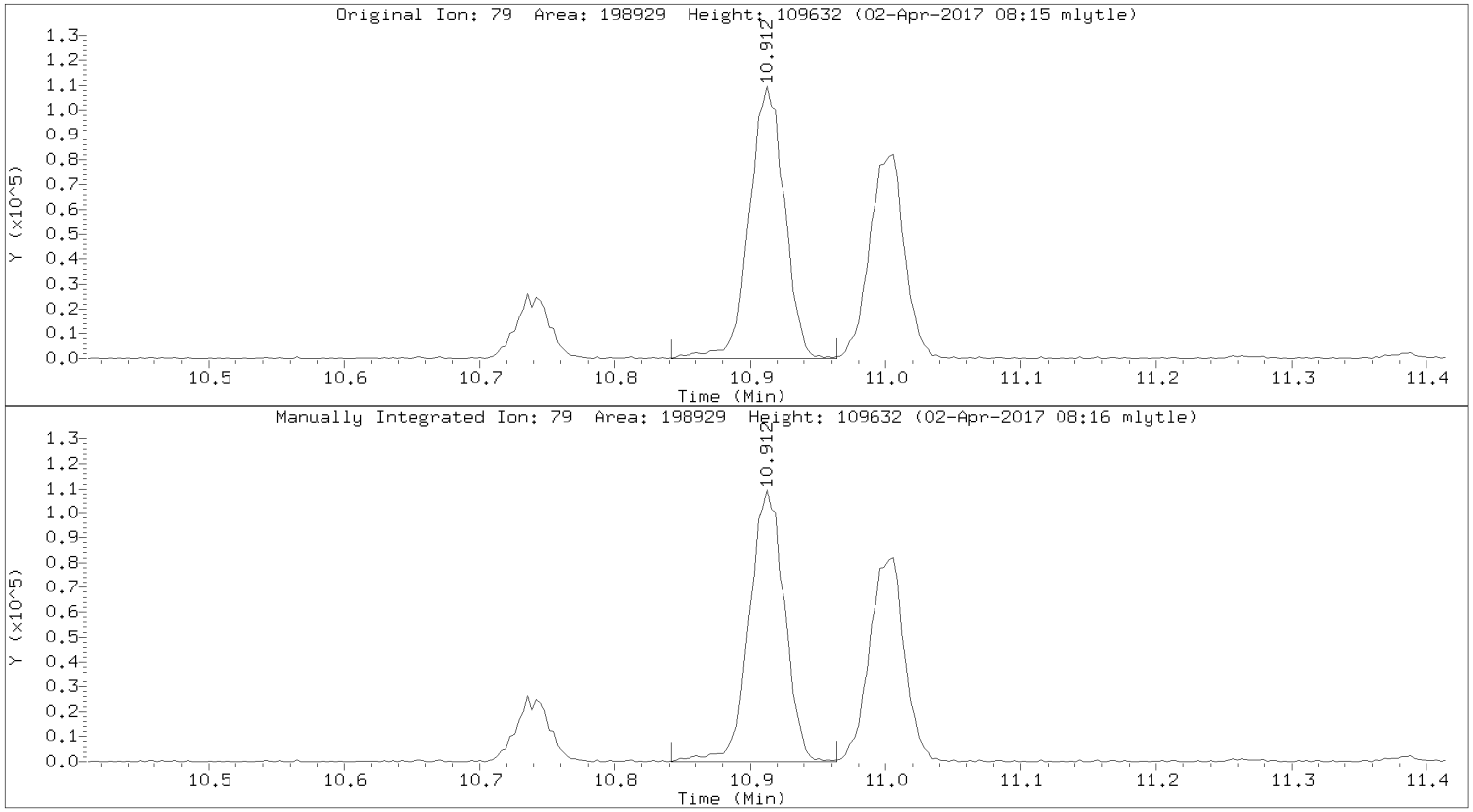






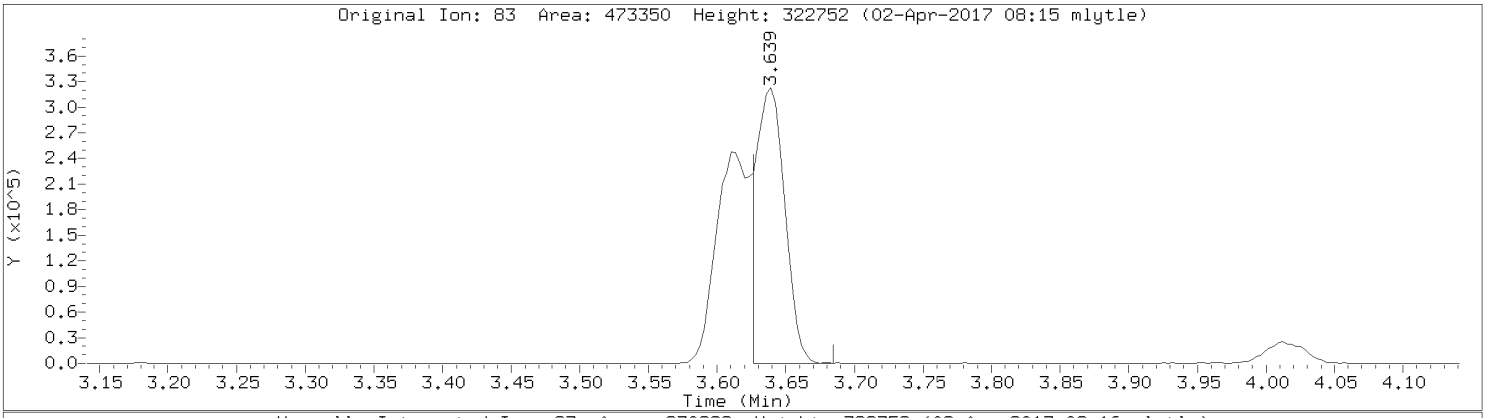


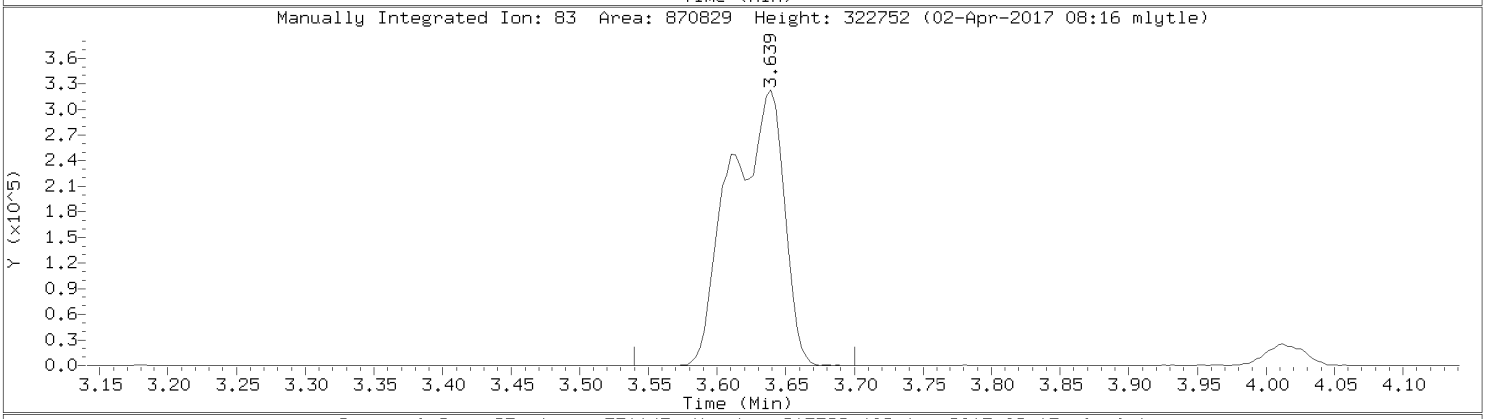
Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV

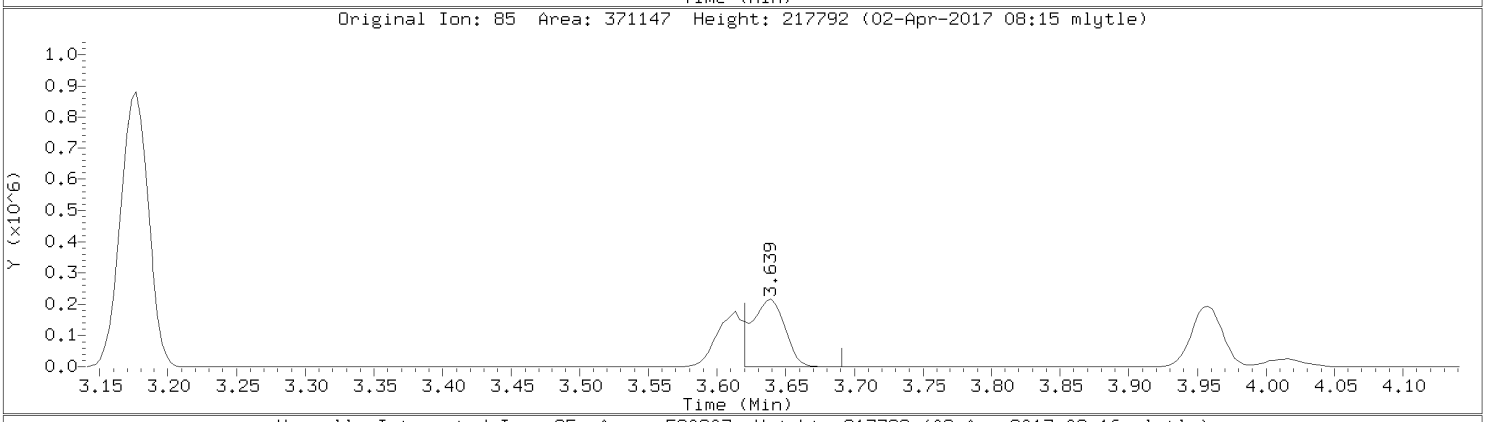


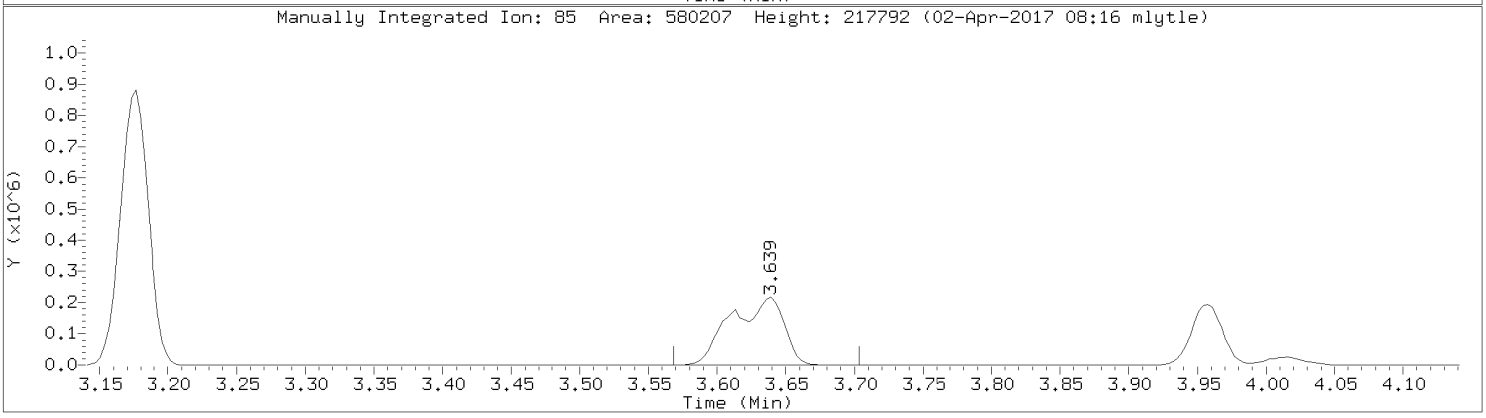
Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: Freon 123
CAS Number: 306-83-2

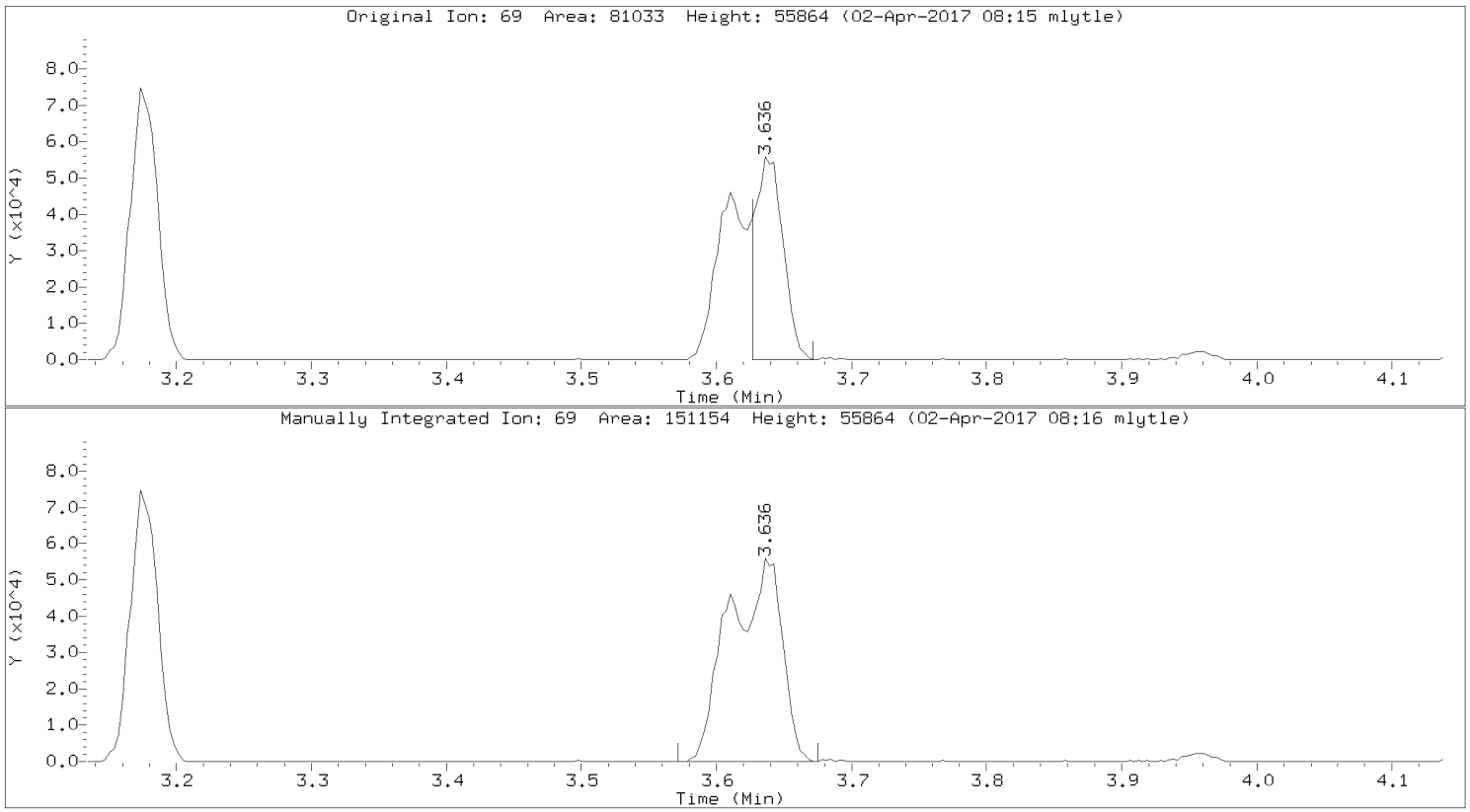








Data File: \\192.168.10.12\chem\10airB.i\040217.b/09202.D
Injection Date: 02-APR-2017 08:56
Instrument: 10airB.i
Lab Sample ID: CCV



Equation 1: Concentration of each component in the flask (Static Dilution Technique, section 10.4.1. S-MN-A-013 rev. 19).

$$\text{Concentration}(\text{mg/L}) = \frac{(V_i)(d)}{V_f}$$

where:

V_i =Volume of liquid neat standard injected into the flask in mL;
d=Density of the liquid neat standard in mg/mL;
V_f =Volume of the flask in liters.

Caution: In the preparation of standards by this technique, make sure that the volume of neat standard injected into the flask does not result in an overpressure due to the higher partial pressure produced by the standard compared to the vapor pressure in the flask.

Equation 2: First determine the volume of the compound as a gas.

$$V = \frac{nRT}{P} \quad \text{where,} \quad n = \frac{(V_i)(d)}{M}$$

where,
V=Volume of injected compound at STP in liters;
n=Moles;
R=Gas constant (0.08206 L-atm/mole ^{o}K);
T=Ambient temperature in ^{o}K;
P=Ambient pressure in atm;
V_i=Volume of liquid neat standard injected into the flask in mL;
d=Density of the neat standard in g/mL;
M=Molecular weight of the compound in g/mole.

Equation 3: Now calculate the concentration in the flask in ppbv.

$$\text{ppbv} = \frac{V}{V_f}(10^9)$$

where:
V=Gas volume of compound as determined in Eq. 8 in liters;
V_f=Volume of static dilution flask in liters.

Equation 4*:* The concentration in ppbv of each compound in the canister can be determined.

$$\text{ppbv} = \frac{(V_i)(C_x)}{V_c}$$

where:
V_i=Volume removed from static dilution flask and injected into the canister in liters;
C_x=Concentration of compound *x* in the static dilution flask in ppbv;
V_c=Final canister volume in liters.

Equation 5: Calculate the relative response factors (RRF) for each compound.

$$\text{Relative Response Factor (RRF)} = \frac{(A_x)(C_i)}{(A_i)(C_x)}$$

where,
A_x=Area of the primary ion for compound *x* to be measured;
A_i=Area of the primary ion for the internal standard associated with compound *x*;
C_i=Concentration of the internal standard in ppbv;
C_x =Concentration of compound *x* to be measured in ppbv.

Equation 6: Calculate the mean RRF for each compound.

$$\overline{R_f} = \frac{\sum_{n=5} R_f}{n}$$

where,
$\overline{R_f}$ =Average relative response factor;
R_f=Relative response factor from calibration curve;
n=Number of data points.

Equation 7: Standard Deviation.

$$\sigma_{(n-1)} = \sqrt{\sum_{i-1}^{n} \frac{(x_i - \bar{x})^2}{(n-1)}}$$

Equation 8: %Relative Standard Deviation (%RSD).

$$\%RSD = \frac{s_{(n-1)}}{\bar{R}_f} x100$$

Equation 9: Mean area response for Internal Standard.

$$\bar{y} = \sum_{i=1}^{n} \frac{y_i}{n}$$

where,

$\bar{y}$ = mean area response

y = Area response for the internal standard for each initial calibration standard

Equation 10: If a linear regression is used, the regression produces the slope and intercept terms for a linear equation.

y = ax + b

where:

y = instrument response (peak area or height)

a = Slope of the line (also called the coefficient of x)

x = Concentration of the calibration standard

b = the intercept, do not include the origin (0) as a calibration point

Equation 11: To calculate the sample concentration by the internal standard method using the linear regression.

$C_s=[(A_sC_{is}/A_{is})-b]/a$

where:

As = Area of the peak for the target analyte in the sample

Ais = Area of the peak of the internal standard

Cs = Concentration of the target analyte in the calibration standard

Cis = Concentration of the internal standard

a = Slope of the line (also called the coefficient of Cs)

b = The intercept

Equation 12: To calculate the coefficient of determination (or r^2) for a quadratic curve fit.

$$COD = \frac{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2 - \left(\frac{n-1}{n-p}\right)\sum_{i=1}^{n}(y_{obs} - Y_i)^2}{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2}$$

where:
y_{obs} = Observed response for each concentration from each initial calibration standard
y = Mean observed response from the initial calibration (See equation 6)
Y_i = Calculated response at each concentration from the initial calibration (See Equation 5)
n = Total number of calibration points in the equation, 6 points for quadratic
p = Number of adjustable parameters in the polynomial equation

Equation 13: Calculate the sample concentration by the internal standard method using the quadratic regression by comparing peak heights to the calibration curve.

Regression equation (quadratic):

$y = ax^2 + bx + c$

Equation 14: Percent Difference (%D). The % D in the RRF of the daily RRF of an individual compound compared to the mean RRF for that compound in the most recent calibration curve.

$$\%D = \frac{|R_i - R_c|}{R_i}(100)$$

where,

R_i=The average RRF from the initial calibration curve for compound *x*;
R_c=RRF for compound *x* from the CCV standard.

Equation 15: Calculate the percent recovery of the LCS.

$$\text{Percent Recovery} = \frac{C_q}{C_a}(100)$$

where:
C_q=Quantitated concentration of compound *x* in ppbv;
C_a=Actual concentration of compound *x* in ppbv.

Equation 16: Calculate the resultant dilution factor.

DF = (Pf + 14.7) / Pi + 14.7)

Pi = Pressure reading of canister prior to pressurization (psig)
Pf = Pressure reading of canister after pressurization (psig)
DF = Dilution factor

To convert Hg to psig:
Multiply by 0.491559 or divide by 2.036

PSIG reading is converted to One Atmosphere:
One Atmosphere = 14.7 psig = 29.21 inches of Hg

Equation 17: Calculate the concentration of the sample component.

$$C_x = \frac{(A_x)(C_i)(D_f)}{(A_i)(R_f)}$$

where:

C_x=Concentration of compound *x* in ppbv;
A_x=EICP area of the quantitation ion for compound *x*;
C_i=Concentration of the internal standard associated with compound *x* in ppbv;
D_f=Dilution factor from Equation 12 (if no dilution was performed, D_f equals 1.)
A_i=EICP area of the quantitation ion for the internal standard associated with compound *x*;
R_f=Average RRF for compound *x* from the most recent calibration curve.

Equation 18: The RPD between the sample and the sample duplicate.

$$RPD = \frac{|A - B|}{(A + B)/2} \times 100$$

Where:

RPD = Relative Percent Difference
A = Sample Value
B = Duplicate Value

Equation 19: Convert ppbv to µg/m³.

$$\frac{(x\ ppbv \times MW\frac{g}{mol})}{24.055\frac{L}{mol}} = y\frac{\mu g}{m^3}$$

Where:

MW = Molecular Weight
24.055 L/mol = Molar Volume of an ideal Gas

$$PV = nRT$$

$$V = \frac{nRT}{P}$$

Where:

V = Volume in liters
N = mols of ideal Gas (1 mol)
R = Ideal gas constant
T = Temperatire in Kelvin

$$V = \frac{(1mol) \times (0.082\ \frac{(L \times atm)}{(mol \times K)} \times 293.15K}{1\ atm}$$

$$V = 24.055\frac{L}{mol}$$

Equation 20: Preparation of Working TO15 Standard.

$$\frac{X}{Y} \times C = Z$$

Where:

X = Volume (L) spiked from stock
Y = Volume (L) of container
C = Concentration (ppbv) of Stock
Z = Concentration (ppbv) of working standard

DATA USABILITY SUMMARY REPORT
FEBRUARY/MARCH 2017 AIR SAMPLES
LOCKHEED MARTIN CORPORATION: GREAT NECK SITE
NEW YORK
DATE SAMPLES COLLECTED: MARCH 6 AND 7, 2017

LAB REPORT No. 10381335

1.0 INTRODUCTION

Twenty-seven air samples were collected by Tetra Tech, Inc., at the Lockheed Martin Corporation Great Neck site, on March 6 and 7, 2017. The samples were sent to Pace Analytical Services, LLC in Minneapolis, Minnesota. All analyses were conducted in accordance with USEPA TO-15 analytical and reporting protocols.

The data package deliverables provided by the laboratory included a Category B deliverable as outlined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols.

Data validation was performed on the aforementioned samples in accordance with EPA Region II data validation guidelines and USEPA Method TO-15. Data validation was conducted using USEPA Region II Standard Operating Procedure (SOP) HW-31, September 2016, Revision 6.

The Data Usability Summary Report (DUSR) was prepared after the process of data validation was completed and summarizes the overall data quality and usability in accordance with the NYSDEC Technical Guidance for Site Investigation and Remediation (NYSDEC 2010).

The DUSR review is based on the following parameters:

- Data completeness
- * Hold times/Sample Preservation
- * GC/MS System Tuning and Performance
- Initial/continuing calibrations
- * Laboratory Method Blank Results
- * Internal Standard Results
- Laboratory Control Sample Results
- * Laboratory Duplicate Precision
- Field Duplicate Precision
- * Compound Identification/Quantitation
- * Tentatively Identified Compounds Results
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

This report was prepared to provide a critical review of the laboratory analysis and reported chemical results. Overall, the data quality is acceptable. The results of the DUSR are presented in Section 3.0. Summary tables are provided. Attachments 1, 2, and 3 are provided so that the data user can review the qualified analytical results, results reported by the laboratory and the supporting documentation associated with data findings and data quality.

2.0 SAMPLES INCLUDED IN REVIEW

Lab Report No. 10381335

Sample ID	Lab ID	Date Collected	Test Requested
L15-VP-7_30_20170306	10381335002	3/6/17	VOCs
VP-102_4.5_20170306	10381335001	3/6/17	VOCs
VP-107_13_20170306	10381335004	3/6/17	VOCs
VP-107_20_20170306	10381335005	3/6/17	VOCs
VP-107_33.5_20170306	10381335006	3/6/17	VOCs
VP-107_44_20170306	10381335007	3/6/17	VOCs
VP-107_5_20170306	10381335003	3/6/17	VOCs
VP-107_60_20170306	10381335008	3/6/17	VOCs
VP-107_74_20170306	10381335009	3/6/17	VOCs
VP-108_10_20170307	10381335018	3/7/17	VOCs
VP-108_20_20170307	10381335019	3/7/17	VOCs
VP-108_29.5_20170307	10381335020	3/7/17	VOCs
VP-108_5_20170307	10381335017	3/7/17	VOCs
VP-108D_50.5_20170307	10381335021	3/7/17	VOCs
VP-108D_50.5_20170307DUP	10381335024	3/7/17	VOCs
VP-108D_60_20170307	10381335022	3/7/17	VOCs
VP-108D_70_20170307	10381335023	3/7/17	VOCs
VP-3_10_20170307	10381335011	3/7/17	VOCs
VP-3_20_20170307	10381335012	3/7/17	VOCs
VP-3_30_20170307	10381335027	3/7/17	VOCs
VP-3_5_20170307	10381335010	3/7/17	VOCs
VP-3_5_20170307DUP	10381335026	3/7/17	VOCs
VP-3D_40_20170307	10381335013	3/7/17	VOCs
VP-3D_51_20170307	10381335014	3/7/17	VOCs
VP-3D_61_20170307	10381335015	3/7/17	VOCs
VP-3D_73_20170307	10381335016	3/7/17	VOCs
VP-3D_73_20170307DUP	10381335025	3/7/17	VOCs

Legend:

VOCs = Volatile Organic Compounds in accordance with EPA TO-15 Method

3.0 RESULTS

3.1 DATA COMPLETENESS

With the exception of clean canister certification batch samples and incorrect sample identification/results reported, the data package deliverables were complete and the format requirements were met.

Clean canister certification samples should be included in every data package to verify the canister cleaning was performed according to method requirements. The laboratory was contacted and described that they perform canister cleaning on all sample containers but only provide analysis on a single canister on a batch basis. The laboratory was asked to provide the clean canister results, however, the clean canister results were not provided at the time of this report.

The chain of custody listed samples as VP-108D_50.5-20170307 (laboratory sample ID: 10381335021) and VP-108D_50.5-20170307DUP (laboratory sample ID: 10381335024). The laboratory reported both samples as VP-108D_50.5-20170307 on the analytical results summary forms. The laboratory reported the samples as VP-108D_50.5-20170307 and VP-108D_50.5-20170307-RE in the electronic data. The data reviewer has corrected the sample IDs in both the database and on the sample Forms Is to reflect the correct field sample ID number. The laboratory has been asked to resubmit the data with the correct sample IDs, however, the laboratory did not provide the amended data at the time of this report.

The nondetected results reported for samples VP-108D_50.5-20170307 and VP-108D_50.5-20170307DUP were reported to a method detection limit (MDL) of 0. The laboratory has been asked to resubmit the data summary forms with the correct MDL values and the electronic data with the correct reporting limit values. The data validator amended the database manually because the laboratory did not provide the amended data at the time of this report.

3.2 ORGANIC QUALIFIERS

Hold Times/Sample Preservation: Technical hold times and preservation were assessed by comparing the sample dates and preservation code on the sample Chain of Custody (COC) with that of the analysis dates.

- All project samples were properly preserved and analyzed within the required hold time for VOC analyses.

GC/MS Performance Check (Tuning) Summary: Gas chromatograph/mass spectrometer (GC/MS) instrument tuning and performance checks are performed to ensure the instrument's ability to provide appropriate mass-resolution, identification and sensitivity.

- The BFB tuning compound mass-ion abundance criteria for the VOC analyses were reported within control limits.

Initial and Continuing Calibration Results: Control limits for initial and continuing instrument calibrations are established to ensure that the instrument is capable of producing accurate quantitative data. The following issues were noted:

- The continuing calibration performed on 03/31/2017 @ 3:32 had Percent Differences (%Ds) for bromomethane, trichlorofluoromethane, acetone, 1,1-dichloroethene, trans-1,2-dichloroethene, methyl tert butyl ether, 1,1-dichloroethane, hexane, cis-1,2-dichloroethene, chloroform and carbon tetrachloride above the quality control limit. Samples VP-3_10_20170307, VP-3D_40-20170307, VP-107_44_20170306, and VP-108_29.5_20170307, were affected. The detected and non-detected results reported for these compounds in the affected samples were qualified as estimated, (J) and (UJ), respectively.

- The continuing calibration performed on 04/02/2017 @ 8:56 had %Ds for allyl chloride, chloroform and trans-1,3-dichloropropene above the quality control limit. Samples VP-108D_50.5_20170307 and VP-108D_50.5_20170307DUP were affected. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).

- All other initial and continuing calibration response factors and percent relative standard deviations were within acceptable quality control limits for the parameters reviewed.

Laboratory Method Contamination:

- No target compound contaminants were detected in the laboratory method blank associated with the reviewed parameters in this data set.

- Methylene chloride was detected in 17 of 27 samples. Methylene chloride was not reported or detected in the associated laboratory method blanks. Despite the absence of methylene chloride in the method blanks, the data reviewer has qualified all methylene chloride detections as estimated, (J) considering them suspected laboratory contaminants.

Internal Standards Area Performance:

- The internal standard area counts and retention times fell within control limits for the project samples received and reviewed.

Laboratory Control Spike (LCS) Results:

- All LCS recoveries were compliant with the following exceptions.

- It was noted in the case narrative that the following compounds were not present in LCS 2546083 performed on 03/27/2017: 1,2-dibromo-3-chloropropane, methyl acetate, chloropentafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane. Samples VP-102_4.5_20170306, L15-VP_7_30_20170306 and VP-107_5_20170306 were affected. No validation actions were taken based on the absence of the aforementioned compounds.

- LCS 2546083 performed on 03/27/2017 had Percent Recoveries (%Rs) for 1,2,4-trichlorobenzene, 2-propanol and hexachloro-1.3-butadiene above the quality control limits. Samples VP-102_4.5_20170306, L15-VP_7_30_20170306 and VP-107_5_20170306 in preparation batch 465793 were affected. The detected result reported for 2-propanol in sample VP-102_4.5_20170306 was qualified as estimated, (J).

- LCS 2546891 performed on 03/28/2017 had a recovery of 0% for chloropentafluoroethane. Samples (preparation batch 465981) VP-107_13_20170306, VP-107_20_20170306, VP-107_33.5_20170306, VP-107_60_20170306, VP-107_74_20170306, VP-108_10_20170307, VP-108_20_20170307, VP-108_5_20170307, VP-108D_60_20170307, VP-108D_70_20170307, VP-3_20_20170307, VP-3_30_20170307, VP-3_5_20170307, VP-3_5_20170307DUP, VP-3D_51_20170307, VP-3D_61_20170307, VP-3D_73_20170307 and VP-3D_73_20170307DUP were affected. The nondetected results reported for chloropentafluoroethane in the affected samples were qualified as rejected, (UR).

- LCS 2549872 performed on 03/31/2017 had %Rs for 1,1,2-trichlorotrifluoroethane, 1,1-dichloroethane, 1,1-dichloroethene, 2-butanone, 2-propanol, acetone, bromomethane, chloroform, cis-1,2-dichloroethene, methyl tert-butyl ether, hexane, trans-1.2-dichloroethene and trichlorofluoromethane above the quality control limits. Samples (preparation batch 465981) VP-3_10_20170307, VP-3D_40_20170307, VP-107_44_20170306, and VP-108_29.5_20170307 were affected. The detected results reported for the aforementioned compounds in the affected samples were qualified as estimated (J).

- LCS 2550308 performed on 04/02/2017 had a %R for chloroform above the quality control limit. Samples (preparation batch 466636) VP-108D_50.5_20170307 and VP-108d_50.5_20170307DUP were affected. No validation action was necessary as the sample results were nondetects.

Laboratory Duplicate Precision: Laboratory duplicates provide information on laboratory precision.

- The laboratory duplicate precision Relative Percent Differences (RPDs) fell within control limits, thereby satisfying laboratory precision.

Field Duplicate Precision: Field duplicates are collected to provide information on sampling precision.

- VP-3_5_20170307DUP was collected as a field duplicate sample of VP-3_5_20170307. The RPD exceeded the 50% quality control limit for methylene chloride. The detected results reported for this compound in the field duplicate pair were qualified as estimated, (J). The remaining field duplicate results associated with these two samples fell within quality control limits, thereby satisfying precision.

- VP-3D_73_20170307DUP was collected as a field duplicate sample of VP-3D_73_20170307. All results associated with these two samples fell within quality control limits, thereby satisfying precision.

- VP-108D_50.5_20170307DUP was collected as a field duplicate sample of VP-108D_50.5_20170307. All results associated with these two samples fell within quality control limits, thereby satisfying precision.

Target Compound Identification and Quantitation: The laboratory calculations are verified and compound identifications are reviewed and assessed by the data reviewer.

- The GC/MS raw data (quantitation reports and chromatograms) were provided for review. No laboratory calculation errors were noted for the sample selected for verification during data validation.

Tentatively Identified Compounds (TIC) Results: A targeted TIC library search was conducted for each sample for the compound 1,2-difluoroethane.

- 1,2-Difluoroethane was not detected in the targeted TIC library search in the reviewed samples. No Reporting Limit (RL) was assigned. This compound was not included on the sample Form Is or the electronic deliverable.

Detection Limits: Non-detected results were reported to the RL.

- The following samples were further diluted due to concentrations of target compounds:

Sample	Compound	Dilution
L15-VP_7_30_20170306	chloroform	10222X
	cis-1,2-dichloroethene	10222X
	tetrachloroethene	10222X
	trichloroethene	10222X
VP-107_20_20170306	trichloroethene	2060.8X
VP-107_33.5_20170306	trichlroethene	4121.6X
VP-107_44_20170306	1,1,2-trichlorotrifluoroethane	292.8X
	trichloroethene	292.8X
	cis-1,2-dichloroethene	292.8X
VP-107_60_20170306	trichloroethene	268.8X
VP-108_20_20170307	tetrachloroethene	17.5X
VP-108_29.5_20170307	1,1,2-trichlorotrifluoroethane	1075.2X
	cis-1,2-dichloroethene	1075.2X
	tetrachloroethene	1075.2X
VP-108D_60_20170307	cis-1,2-dichloroethene	87.5X

The results from the diluted analyses were used in the data review.

- Detected result reported below the RL but above the MDL were qualified as estimated, "J".

Additional Comments: According to the laboratory, the sample canisters were batch certified. All sample canisters contained an initial vacuum of approximately -30 psig (-28 to -30 psig) and finished at sub atmospheric pressures (-6.5 to -9.5).

4.0 CONCLUSIONS

Overall, based on the outcome of data validation as summarized in the DUSR, and with the exceptions to the presence of methylene chloride which may be a laboratory contaminant and the LCS recovery of chloropentafluoroethane in preparation batch 465981, in the opinion of the data reviewer, the data quality is acceptable with the qualifiers noted in this report.

for Tetra Tech, Inc.
Terri L. Solomon
Chemist/Data Validator

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

May 31, 2017

Attachments:
Attachment 1 – Qualified Analytical Results
Attachment 2 – Results as Reported by the Laboratory
Attachment 3 – Support Documentation

DATA USABILITY SUMMARY REPORT
FEBRUARY/MARCH 2017 AIR SAMPLES
LOCKHEED MARTIN CORPORATION: GREAT NECK SITE
NEW YORK
DATE SAMPLES COLLECTED: MARCH 6 AND 7, 2017

LAB REPORT No. 10381335

1.0 INTRODUCTION

Twenty-seven air samples were collected by Tetra Tech, Inc., at the Lockheed Martin Corporation Great Neck site, on March 6 and 7, 2017. The samples were sent to Pace Analytical Services, LLC in Minneapolis, Minnesota. All analyses were conducted in accordance with USEPA TO-15 analytical and reporting protocols.

The data package deliverables provided by the laboratory included a Category B deliverable as outlined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols.

Data validation was performed on the aforementioned samples in accordance with EPA Region II data validation guidelines and USEPA Method TO-15. Data validation was conducted using USEPA Region II Standard Operating Procedure (SOP) HW-31, September 2016, Revision 6.

The Data Usability Summary Report (DUSR) was prepared after the process of data validation was completed and summarizes the overall data quality and usability in accordance with the NYSDEC Technical Guidance for Site Investigation and Remediation (NYSDEC 2010).

The DUSR review is based on the following parameters:

- Data completeness
- * Hold times/Sample Preservation
- * GC/MS System Tuning and Performance
- Initial/continuing calibrations
- * Laboratory Method Blank Results
- * Internal Standard Results
- Laboratory Control Sample Results
- * Laboratory Duplicate Precision
- Field Duplicate Precision
- * Compound Identification/Quantitation
- * Tentatively Identified Compounds Results
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

This report was prepared to provide a critical review of the laboratory analysis and reported chemical results. Overall, the data quality is acceptable. The results of the DUSR are presented in Section 3.0. Summary tables are provided. Attachments 1, 2, and 3 are provided so that the data user can review the qualified analytical results, results reported by the laboratory and the supporting documentation associated with data findings and data quality.

2.0 SAMPLES INCLUDED IN REVIEW

Lab Report No. 10381335

Sample ID	Lab ID	Date Collected	Test Requested
L15-VP-7_30_20170306	10381335002	3/6/17	VOCs
VP-102_4.5_20170306	10381335001	3/6/17	VOCs
VP-107_13_20170306	10381335004	3/6/17	VOCs
VP-107_20_20170306	10381335005	3/6/17	VOCs
VP-107_33.5_20170306	10381335006	3/6/17	VOCs
VP-107_44_20170306	10381335007	3/6/17	VOCs
VP-107_5_20170306	10381335003	3/6/17	VOCs
VP-107_60_20170306	10381335008	3/6/17	VOCs
VP-107_74_20170306	10381335009	3/6/17	VOCs
VP-108_10_20170307	10381335018	3/7/17	VOCs
VP-108_20_20170307	10381335019	3/7/17	VOCs
VP-108_29.5_20170307	10381335020	3/7/17	VOCs
VP-108_5_20170307	10381335017	3/7/17	VOCs
VP-108D_50.5_20170307	10381335021	3/7/17	VOCs
VP-108D_50.5_20170307DUP	10381335024	3/7/17	VOCs
VP-108D_60_20170307	10381335022	3/7/17	VOCs
VP-108D_70_20170307	10381335023	3/7/17	VOCs
VP-3_10_20170307	10381335011	3/7/17	VOCs
VP-3_20_20170307	10381335012	3/7/17	VOCs
VP-3_30_20170307	10381335027	3/7/17	VOCs
VP-3_5_20170307	10381335010	3/7/17	VOCs
VP-3_5_20170307DUP	10381335026	3/7/17	VOCs
VP-3D_40_20170307	10381335013	3/7/17	VOCs
VP-3D_51_20170307	10381335014	3/7/17	VOCs
VP-3D_61_20170307	10381335015	3/7/17	VOCs
VP-3D_73_20170307	10381335016	3/7/17	VOCs
VP-3D_73_20170307DUP	10381335025	3/7/17	VOCs

Legend:

VOCs = Volatile Organic Compounds in accordance with EPA TO-15 Method

3.0 RESULTS

3.1 DATA COMPLETENESS

With the exception of clean canister certification batch samples and incorrect sample identification/results reported, the data package deliverables were complete and the format requirements were met.

Clean canister certification samples should be included in every data package to verify the canister cleaning was performed according to method requirements. The laboratory was contacted and described that they perform canister cleaning on all sample containers but only provide analysis on a single canister on a batch basis. The laboratory was asked to provide the clean canister results, however, the clean canister results were not provided at the time of this report.

The chain of custody listed samples as VP-108D_50.5-20170307 (laboratory sample ID: 10381335021) and VP-108D_50.5-20170307DUP (laboratory sample ID: 10381335024). The laboratory reported both samples as VP-108D_50.5-20170307 on the analytical results summary forms. The laboratory reported the samples as VP-108D_50.5-20170307 and VP-108D_50.5-20170307-RE in the electronic data. The laboratory has been asked to resubmit the data with the correct sample IDs, however, the laboratory did not provide the amended data at the time of this report.

The nondetected results reported for samples VP-108D_50.5-20170307 and VP-108D_50.5-20170307DUP were reported to a method detection limit (MDL) of 0. The laboratory has been asked to resubmit the data summary forms with the correct MDL values and the electronic data with the correct reporting limit values. The data validator amended the data as the laboratory did not provide the amended data at the time of this report.

3.2 ORGANIC QUALIFIERS

Hold Times/Sample Preservation: Technical hold times and preservation were assessed by comparing the sample dates and preservation code on the sample Chain of Custody (COC) with that of the analysis dates.

- All project samples were properly preserved and analyzed within the required hold time for VOC analyses.

GC/MS Performance Check (Tuning) Summary: Gas chromatograph/mass spectrometer (GC/MS) instrument tuning and performance checks are performed to ensure the instrument's ability to provide appropriate mass-resolution, identification and sensitivity.

- The BFB tuning compound mass-ion abundance criteria for the VOC analyses were reported within control limits.

Initial and Continuing Calibration Results: Control limits for initial and continuing instrument calibrations are established to ensure that the instrument is capable of producing accurate quantitative data. The following issues were noted:

- The continuing calibration performed on 03/31/2017 @ 3:32 had Percent Differences (%Ds) for bromomethane, trichlorofluoromethane, acetone, 1,1-dichloroethene, trans-1,2-dichloroethene, methyl tert butyl ether, 1,1-dichloroethane, hexane, cis-1,2-dichloroethene, chloroform and carbon tetrachloride above the quality control limit. Samples VP-3_10_20170307, VP-3D_40-20170307, VP-107_44_20170306, VP-108_29.5_20170307, VP-108_20_20170307DL and VP-107_60_20170506 were affected. The detected and non-detected results reported for these compounds in the affected samples were qualified as estimated, (J) and (UJ), respectively.

- The continuing calibration performed on 04/02/2017 @ 8:56 had %Ds for allyl chloride, chloroform and trans-1,3-dichloropropene above the quality control limit. Samples VP-108D_50.5_20170307 and VP-108D_50.5_20170307DUP were affected. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).

- All other initial and continuing calibration response factors and percent relative standard deviations were within acceptable quality control limits for the parameters reviewed.

Laboratory Method Contamination:

- No target compound contaminants were detected in the laboratory method blank associated with the reviewed parameters in this data set.

- Methylene chloride was detected in 17 of 27 samples. Methylene chloride was not reported or detected in the associated laboratory method blanks. Despite the absence of methylene chloride in the method blanks, the data reviewer has qualified all methylene chloride detections as estimated, (J) considering them suspected laboratory contaminants.

Internal Standards Area Performance:

- The internal standard area counts and retention times fell within control limits for the project samples received and reviewed.

Laboratory Control Spike (LCS) Results:

- All LCS recoveries were compliant with the following exceptions.

- It was noted in the case narrative that the following compounds were not present in LCS 2546083 performed on 03/27/2017: 1,2-dibromo-3-chloropropane, methyl acetate, chloropentafluoroethane and 1,1-dichloro-2,2,2-trifluoroethane. Samples VP-102_4.5_20170306, L15-VP_7_30_20170306 and VP-107_5_20170306 were affected. No validation actions were necessary.

- LCS 2546083 performed on 03/27/2017 had Percent Recoveries (%Rs) for 1,2,4-trichlorobenzene, 2-propanol and hexachloro-1.3-butadiene above the quality control limits. Samples VP-102_4.5_20170306, L15-VP_7_30_20170306 and VP-107_5_20170306 in preparation batch 465793 were affected. The detected result reported for 2-propanol in sample VP-102_4.5_20170306 was qualified as estimated, (J).

- LCS 2546891 performed on 03/28/2017 had a recovery of 0% for chloropentafluoroethane. Samples (preparation batch 465981) VP-107_13_20170306, VP-107_20_20170306, VP-107_33.5_20170306, VP-107_60_20170306, VP-107_74_20170306, VP-108_10_20170307, VP-108_20_20170307, VP-108_5_20170307, VP-108D_60_20170307, VP-108D_70_20170307, VP-3_20_20170307, VP-3_30_20170307, VP-3_5_20170307, VP-3_5_20170307DUP, VP-3D_51_20170307, VP-3D_61_20170307, VP-3D_73_20170307 and VP-3D_73_20170307DUP were affected. The nondetected results reported for chloropentafluoroethane in the affected samples were qualified as rejected, (UR).

- LCS 2549872 performed on 03/31/2017 had %Rs for 1,1,2-trichlorotrifluoroethane, 1,1-dihloroethane, 1,1-dichloroethene, 2-butanone, 2-propanol, acetone, bromomethane, chloroform, cis-1,2-dichloroethene, methyl tert-butyl ether, hexane, trans-1.2-dichloroethene and trichlorofluoromethane above the quality control limits. Samples (preparation batch 465981) VP-3_10_20170307, VP-3D_40_20170307, VP-107_44_20170306, VP-108_29.5_20170307 and VP-108_29.5_20170307DL were affected. The detected results reported for the aforementioned compounds in the affected samples were qualified as estimated (J).

- LCS 2550308 performed on 04/02/2017 had a %R for chloroform above the quality control limit. Samples (preparation batch 466636) VP-108D_50.5_20170307 and VP-108d_50.5_20170307DUP were affected. No validation action was necessary as the sample results were nondetects.

Laboratory Duplicate Precision: Laboratory duplicates provide information on laboratory precision.

- The laboratory duplicate precision Relative Percent Differences (RPDs) fell within control limits, thereby satisfying laboratory precision.

Field Duplicate Precision: Field duplicates are collected to provide information on sampling precision.

- VP-3_5_20170307DUP was collected as a field duplicate sample of VP-3_5_20170307. The RPD exceeded the 50% quality control limit for methylene chloride. The detected results reported for this compound in the field duplicate pair were qualified as estimated, (J).

- The remaining results associated with these two samples fell within quality control limits, thereby satisfying precision.

- VP-3D_73_20170307DUP was collected as a field duplicate sample of VP-3D_73_20170307. All results associated with these two samples fell within quality control limits, thereby satisfying precision.

- VP-108D_50.5_20170307DUP was collected as a field duplicate sample of VP-108D_50.5_20170307. All results associated with these two samples fell within quality control limits, thereby satisfying precision.

Target Compound Identification and Quantitation: The laboratory calculations are verified and compound identifications are reviewed and assessed by the data reviewer.

- The GC/MS raw data (quantitation reports and chromatograms) were provided for review. No laboratory calculation errors were noted for the sample selected for verification during data validation.

Tentatively Identified Compounds (TIC) Results: A targeted TIC library search was conducted for each sample for the compound 1,2-difluoroethane.

- 1,2-Difluoroethane was not detected in the targeted TIC library search in the reviewed samples. No Reporting Limit (RL) was assigned. This compound was not included on the sample Form Is or the electronic deliverable.

Detection Limits: Non-detected results were reported to the RL.

- The following samples were further diluted due to concentrations of target compounds:

Sample	Compound	Dilution
L15-VP_7_30_20170306	chloroform	10222X
	cis-1,2-dichloroethene	10222X
	tetrachloroethene	10222X
	trichloroethene	10222X
VP-107_20_20170306	trichloroethene	2060.8X
VP-107_33.5_20170306	trichlroethene	4121.6X
VP-107_44_20170306	1,1,2-trichlorotrifluoroethane	292.8X
	trichloroethene	292.8X
	cis-1,2-dichloroethene	292.8X
VP-107_60_20170306	trichloroethene	268.8X
VP-108_20_20170307	tetrachloroethene	17.5X
VP-108_29.5_20170307	1,1,2-trichlorotrifluoroethane	1075.2X
	cis-1,2-dichloroethene	1075.2X
	tetrachloroethene	1075.2X
VP-108D_60_20170307	cis-1,2-dichloroethene	87.5X

The results from the diluted analyses were used in the data review.

- Detected result reported below the RL but above the MDL were qualified as estimated, "J".

Additional Comments: According to the laboratory, the sample canisters were batch certified. All sample canisters contained an initial vacuum of approximately -30 psig (-28 to -30 psig) and finished at sub atmospheric pressures (-6.5 to -9.5).

4.0 CONCLUSIONS

Overall, based on the outcome of data validation as summarized in the DUSR, and with the exceptions to the presence of methylene chloride which may be a laboratory contaminant and the LCS recovery of chloropentafluoroethane in preparation batch 465981, in the opinion of the data reviewer, the data quality is acceptable with the qualifiers noted in this report.

Tetra Tech, Inc.
Terri L. Solomon
Chemist/Data Validator

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

May 31, 2017

Attachments:
Attachment 1 – Qualified Analytical Results
Attachment 2 – Results as Reported by the Laboratory
Attachment 3 – Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Appendix A

Qualified Analytical Results

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed
Z3 = Tentatively Identified Compound aldol condensate
Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 07792	NSAMPLE	L15-VP-7_30_20170306			L15-VP-7_30_20170306-DL			VP-102_4.5_20170306			VP-107_13_20170306		
SDG: 10381335	LAB_ID	10381335002			10381335002			10381335001			10381335004		
FRACTION: OV	SAMP_DATE	3/6/2017			3/6/2017			3/6/2017			3/6/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.3	J	P				1.9	U		1.9	U	
1,1,2,2-TETRACHLOROETHANE		1.3	U					1.2	U		1.2	U	
1,1,2-TRICHLOROETHANE		2.9						0.96	U		0.96	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		457						1.3	J	P	0.72	J	P
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.8	U					5.6	U		5.6	U	
1,1-DICHLOROETHANE		34.2						1.4	U		1.4	U	
1,1-DICHLOROETHENE		7.3						1.4	U		1.4	U	
1,2,4-TRICHLOROBENZENE		6.9	U					6.6	U		6.6	U	
1,2,4-TRIMETHYLBENZENE		1.8	U					0.92	J	P	1.1	J	P
1,2-DIBROMO-3-CHLOROPROPANE		9	U					8.6	U		8.6	U	
1,2-DIBROMOETHANE		2.9	U					2.7	U		2.7	U	
1,2-DICHLOROBENZENE		2.2	U					2.1	U		2.1	U	
1,2-DICHLOROETHANE		0.75	U					0.72	U		0.72	U	
1,2-DICHLOROPROPANE		1.7	U					1.6	U		1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.6	U					2.5	U		2.5	U	
1,3,5-TRIMETHYLBENZENE		1.8	U					1.7	U		1.7	U	
1,3-BUTADIENE		0.82	U					0.79	U		0.79	U	
1,3-DICHLOROBENZENE		2.2	U					2.1	U		2.1	U	
1,4-DICHLOROBENZENE		2.2	U					2.1	U		2.1	U	
1,4-DIOXANE		6.7	U					6.4	U		6.4	U	
1-ETHYL-4-METHYL BENZENE		1.8	U					1.8	U		1.8	U	
2-BUTANONE		5.5	U					10.7			6.6		
2-HEXANONE		7.6	U					7.3	U		7.3	U	
3-CHLOROPROPENE		2.9	U					2.8	U		2.8	U	
4-METHYL-2-PENTANONE		7.6	U					7.3	U		7.3	U	
ACETONE		2.9	J	P				422			86.2		
BENZENE		14.5						1			0.31	J	P
BROMODICHLOROMETHANE		2.5	U					2.4	U		2.4	U	
BROMOFORM		3.8	U					3.7	U		3.7	U	
BROMOMETHANE		1.4	U					1.4	U		1.4	U	
CARBON DISULFIDE		0.81	J	P				1.1	U		0.62	J	P
CARBON TETRACHLORIDE		6.6						0.57	J	P	1.1	U	
CHLOROBENZENE		1.7	U					1.6	U		1.6	U	
CHLORODIBROMOMETHANE		3.2	U					3	U		3	U	
CHLORODIFLUOROMETHANE		75.3						1.3	U		1.3	U	

PROJ_NO: 07792	NSAMPLE	VP-107_20_20170306			VP-107_20_20170306-DL			VP-107_33.5_20170306			VP-107_33.5_20170306-DL		
SDG: 10381335	LAB_ID	10381335005			10381335005			10381335006			10381335006		
FRACTION: OV	SAMP_DATE	3/6/2017			3/6/2017			3/6/2017			3/6/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		89.4	U					35.7	U				
1,1,2,2-TETRACHLOROETHANE		56.2	U					22.5	U				
1,1,2-TRICHLOROETHANE		44.3	U					119					
1,1,2-TRICHLOROTRIFLUOROETHANE		1080						765					
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		256	U					102	U				
1,1-DICHLOROETHANE		66	U					26.4	U				
1,1-DICHLOROETHENE		65.2	U					25	J	P			
1,2,4-TRICHLOROBENZENE		303	U					121	U				
1,2,4-TRIMETHYLBENZENE		80.4	U					32.2	U				
1,2-DIBROMO-3-CHLOROPROPANE		395	U					158	U				
1,2-DIBROMOETHANE		126	U					50.2	U				
1,2-DICHLOROBENZENE		98.2	U					39.3	U				
1,2-DICHLOROETHANE		33	U					13.2	U				
1,2-DICHLOROPROPANE		75.7	U					30.3	U				
1,2-DICHLOROTETRAFLUOROETHANE		114	U					45.7	U				
1,3,5-TRIMETHYLBENZENE		80.4	U					32.2	U				
1,3-BUTADIENE		36.2	U					14.5	U				
1,3-DICHLOROBENZENE		98.2	U					39.3	U				
1,4-DICHLOROBENZENE		98.2	U					39.3	U				
1,4-DIOXANE		295	U					118	U				
1-ETHYL-4-METHYL BENZENE		80.5	U					32.2	U				
2-BUTANONE		242	U					96.6	U				
2-HEXANONE		335	U					134	U				
3-CHLOROPROPENE		128	U					51.2	U				
4-METHYL-2-PENTANONE		335	U					134	U				
ACETONE		194	U					77.7	U				
BENZENE		26.2	U					10.5	U				
BROMODICHLOROMETHANE		109	U					43.8	U				
BROMOFORM		169	U					67.7	U				
BROMOMETHANE		63.6	U					25.4	U				
CARBON DISULFIDE		50.7	U					20.3	U				
CARBON TETRACHLORIDE		51.5	U					20.6	U				
CHLOROBENZENE		75.7	U					30.3	U				
CHLORODIBROMOMETHANE		139	U					55.7	U				
CHLORODIFLUOROMETHANE		55.3	J	P				174					

PROJ_NO: 07792	NSAMPLE	VP-107_44_20170306			VP-107_44_20170306-DL			VP-107_44_20170306-RE			VP-107_5_20170306		
SDG: 10381335	LAB_ID	10381335007			10381335007			10381335007			10381335003		
FRACTION: OV	SAMP_DATE	3/6/2017			3/6/2017			3/6/2017			3/6/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		102	U								2	U	
1,1,2,2-TETRACHLOROETHANE		63.9	U								1.3	U	
1,1,2-TRICHLOROETHANE		50.3	U								1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					266	J	P				1.5	J	P
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		291	U								5.8	U	
1,1-DICHLOROETHANE		75	UJ	C							1.5	U	
1,1-DICHLOROETHENE		74.1	UJ	C							1.5	U	
1,2,4-TRICHLOROBENZENE		345	U								6.9	U	
1,2,4-TRIMETHYLBENZENE		91.4	U								1.8	U	
1,2-DIBROMO-3-CHLOROPROPANE		449	U								9	U	
1,2-DIBROMOETHANE		143	U								2.9	U	
1,2-DICHLOROBENZENE		112	U								2.2	U	
1,2-DICHLOROETHANE		37.5	U								0.75	U	
1,2-DICHLOROPROPANE		86	U								1.7	U	
1,2-DICHLOROTETRAFLUOROETHANE		130	U								2.6	U	
1,3,5-TRIMETHYLBENZENE		91.4	U								1.8	U	
1,3-BUTADIENE		41.2	U								0.82	U	
1,3-DICHLOROBENZENE		112	U								2.2	U	
1,4-DICHLOROBENZENE		280	U								2.2	U	
1,4-DIOXANE		335	U								6.7	U	
1-ETHYL-4-METHYL BENZENE		91.5	U								1.8	U	
2-BUTANONE		274	U								5.5	U	
2-HEXANONE		381	U								7.6	U	
3-CHLOROPROPENE		145	U								2.9	U	
4-METHYL-2-PENTANONE		381	U								7.6	U	
ACETONE		221	UJ	C							5.6		
BENZENE		29.7	U								0.88		
BROMODICHLOROMETHANE		623	U								2.5	U	
BROMOFORM		192	U								3.8	U	
BROMOMETHANE		72.3	UJ	C							1.4	U	
CARBON DISULFIDE		57.6	U								1.2	U	
CARBON TETRACHLORIDE		58.6	UJ	C							1.2	U	
CHLOROBENZENE		86	U								1.7	U	
CHLORODIBROMOMETHANE		158	U								3.2	U	
CHLORODIFLUOROMETHANE		195									1.3	U	

PROJ_NO: 07792	NSAMPLE	VP-107_60_20170306			VP-107_60_20170306-DL			VP-107_74_20170306			VP-108_10_20170307		
SDG: 10381335	LAB_ID	10381335008			10381335008			10381335009			10381335018		
FRACTION: OV	SAMP_DATE	3/6/2017			3/6/2017			3/6/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		37.3	U					40.6	U		1.9	U	
1,1,2,2-TETRACHLOROETHANE		23.5	U					25.5	U		1.2	U	
1,1,2-TRICHLOROETHANE		18.5	U					20.1	U		0.92	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		130						123			0.7	J	P
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		107	U					116	U		5.3	U	
1,1-DICHLOROETHANE		27.6	U					30	U		1.4	U	
1,1-DICHLOROETHENE		27.2	U					29.6	U		1.4	U	
1,2,4-TRICHLOROBENZENE		127	U					138	U		6.3	U	
1,2,4-TRIMETHYLBENZENE		33.6	U					36.6	U		1.7	U	
1,2-DIBROMO-3-CHLOROPROPANE		165	U					180	U		8.2	U	
1,2-DIBROMOETHANE		52.4	U					57.1	U		2.6	U	
1,2-DICHLOROBENZENE		41	U					44.7	U		2	U	
1,2-DICHLOROETHANE		13.8	U					15	U		0.69	U	
1,2-DICHLOROPROPANE		31.6	U					34.4	U		1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		47.7	U					52	U		2.4	U	
1,3,5-TRIMETHYLBENZENE		33.6	U					36.6	U		1.7	U	
1,3-BUTADIENE		15.1	U					16.5	U		0.76	U	
1,3-DICHLOROBENZENE		41	U					44.7	U		2	U	
1,4-DICHLOROBENZENE		41	U					44.7	U		2	U	
1,4-DIOXANE		123	U					134	U		6.1	U	
1-ETHYL-4-METHYL BENZENE		33.6	U					36.6	U		1.7	U	
2-BUTANONE		101	U					110	U		5	U	
2-HEXANONE		140	U					152	U		7	U	
3-CHLOROPROPENE		53.4	U					58.2	U		2.7	U	
4-METHYL-2-PENTANONE		140	U					152	U		7	U	
ACETONE		81.1	U					88.4	U		5.4		
BENZENE		10.9	U					11.9	U		0.55	U	
BROMODICHLOROMETHANE		45.7	U					49.8	U		2.3	U	
BROMOFORM		70.6	U					76.9	U		3.5	U	
BROMOMETHANE		26.5	U					28.9	U		1.3	U	
CARBON DISULFIDE		47.4						23.1	U		1.1	U	
CARBON TETRACHLORIDE		21.5	U					23.4	U		1.1	U	
CHLOROBENZENE		31.6	U					34.4	U		1.6	U	
CHLORODIBROMOMETHANE		58.1	U					63.3	U		2.9	U	
CHLORODIFLUOROMETHANE		238						181			1.1	J	P

PROJ_NO: 07792	NSAMPLE	VP-108_20_20170307			VP-108_20_20170307-DL			VP-108_29.5_20170307			VP-108_29.5_20170307-DL		
SDG: 10381335	LAB_ID	10381335019			10381335019			10381335020			10381335020		
FRACTION: OV	SAMP_DATE	3/7/2017			3/7/2017			3/7/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.9	U					138	J	P			
1,1,2,2-TETRACHLOROETHANE		1.2	U					102	U				
1,1,2-TRICHLOROETHANE		0.96	U					80.5	U				
1,1,2-TRICHLOROTRIFLUOROETHANE		10.3									7600		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.6	U					466	U				
1,1-DICHLOROETHANE		1.4	U					120	UJ	C			
1,1-DICHLOROETHENE		1.4	U					119	UJ	C			
1,2,4-TRICHLOROBENZENE		6.6	U					552	U				
1,2,4-TRIMETHYLBENZENE		1.7	U					146	U				
1,2-DIBROMO-3-CHLOROPROPANE		8.6	U					719	U				
1,2-DIBROMOETHANE		2.7	U					228	U				
1,2-DICHLOROBENZENE		2.1	U					179	U				
1,2-DICHLOROETHANE		0.72	U					60	U				
1,2-DICHLOROPROPANE		1.6	U					138	U				
1,2-DICHLOROTETRAFLUOROETHANE		2.5	U					208	U				
1,3,5-TRIMETHYLBENZENE		1.7	U					146	U				
1,3-BUTADIENE		0.79	U					65.9	U				
1,3-DICHLOROBENZENE		2.1	U					179	U				
1,4-DICHLOROBENZENE		2.1	U					447	U				
1,4-DIOXANE		6.4	U					536	U				
1-ETHYL-4-METHYL BENZENE		1.8	U					146	U				
2-BUTANONE		5.2	U					439	U				
2-HEXANONE		7.3	U					610	U				
3-CHLOROPROPENE		2.8	U					233	U				
4-METHYL-2-PENTANONE		7.3	U					610	U				
ACETONE		12.6						353	UJ	C			
BENZENE		0.34	J	P				47.6	U				
BROMODICHLOROMETHANE		2.4	U					997	U				
BROMOFORM		3.7	U					308	U				
BROMOMETHANE		1.4	U					116	UJ	C			
CARBON DISULFIDE		1.1	U					92.2	U				
CARBON TETRACHLORIDE		1.1	U					93.7	UJ	C			
CHLOROBENZENE		1.6	U					138	U				
CHLORODIBROMOMETHANE		3	U					253	U				
CHLORODIFLUOROMETHANE		1.3	U					105	U				

PROJ_NO: 07792	NSAMPLE	VP-108_5_20170307			VP-108D_50.5_20170307			VP-108D_50.5_20170307DUP			VP-108D_60_20170307		
SDG: 10381335	LAB_ID	10381335017			10381335021			10381335024			10381335022		
FRACTION: OV	SAMP_DATE	3/7/2017			3/7/2017			3/7/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF							VP-108D_50.5_20170307					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.8	U		18.6	U		20.3	U		6.1		
1,1,2,2-TETRACHLOROETHANE		1.1	U		11.7	U		12.8	U		1.2	U	
1,1,2-TRICHLOROETHANE		0.89	U		9.2	U		10.1	U		0.96	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.6	U		16	J	P	10.3	J	P	413		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.1	U		53.4	U		58.2	U		5.6	U	
1,1-DICHLOROETHANE		1.3	U		13.8	U		15	U		1.2	J	P
1,1-DICHLOROETHENE		1.3	U		13.6	U		14.8	U		21.7		
1,2,4-TRICHLOROBENZENE		6.1	U		63.3	U		69	U		6.6	U	
1,2,4-TRIMETHYLBENZENE		3.1			1.7	J	P	18.3	U		1.7	U	
1,2-DIBROMO-3-CHLOROPROPANE		7.9	U		82.5	U		89.9	U		8.6	U	
1,2-DIBROMOETHANE		2.5	U		26.2	U		28.5	U		2.7	U	
1,2-DICHLOROBENZENE		2	U		20.5	U		22.3	U		3.5		
1,2-DICHLOROETHANE		0.66	U		6.9	U		7.5	U		0.51	J	P
1,2-DICHLOROPROPANE		1.5	U		15.8	U		17.2	U		1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.3	U		23.9	U		26	U		2.5	U	
1,3,5-TRIMETHYLBENZENE		0.99	J	P	16.8	U		18.3	U		1.7	U	
1,3-BUTADIENE		0.72	U		7.6	U		8.2	U		0.79	U	
1,3-DICHLOROBENZENE		2	U		20.5	U		22.3	U		2.1	U	
1,4-DICHLOROBENZENE		2	U		20.5	U		22.3	U		1.3	J	P
1,4-DIOXANE		5.9	U		61.5	U		67	U		6.4	U	
1-ETHYL-4-METHYL BENZENE		1.2	J	P	16.8	U		18.3	U		0.96	J	P
2-BUTANONE		4.8	U		50.4	U		54.9	U		3.7	J	P
2-HEXANONE		6.7	U		70	U		76.2	U		7.3	U	
3-CHLOROPROPENE		2.6	U		26.7	UJ	C	29.1	UJ	C	2.8	U	
4-METHYL-2-PENTANONE		6.7	U		70	U		76.2	U		7.3	U	
ACETONE		298			14.4	J	P	20.6	J	P	20.6		
BENZENE		2.4			5.5	U		5.9	U		0.58		
BROMODICHLOROMETHANE		2.2	U		22.8	U		24.9	U		2.4	U	
BROMOFORM		3.4	U		35.3	U		38.4	U		3.7	U	
BROMOMETHANE		1.3	U		13.3	U		14.5	U		1.4	U	
CARBON DISULFIDE		1	U		10.6	U		11.5	U		1.1	U	
CARBON TETRACHLORIDE		0.53	J	P	10.8	U		11.7	U		1.1	U	
CHLOROBENZENE		1.5	U		15.8	U		17.2	U		1.6	U	
CHLORODIBROMOMETHANE		2.8	U		29.1	U		31.7	U		3	U	
CHLORODIFLUOROMETHANE		1.2	U		12.1	U		13.2	U		1.3	U	

PROJ_NO: 07792	NSAMPLE	VP-108D_60_20170307-DL			VP-108D_70_20170307			VP-3_10_20170307			VP-3_20_20170307		
SDG: 10381335	LAB_ID	10381335022			10381335023			10381335011			10381335012		
FRACTION: OV	SAMP_DATE	3/7/2017			3/7/2017			3/7/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					9.7	U		2.9	U		1.9	U	
1,1,2,2-TETRACHLOROETHANE					6.1	U		1.8	U		1.2	U	
1,1,2-TRICHLOROETHANE					4.8	U		1.4	U		0.96	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					342			2.4	J	EP	2.2	J	P
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					27.8	U		8.2	U		5.6	U	
1,1-DICHLOROETHANE					7.2	U		2.1	UJ	C	1.4	U	
1,1-DICHLOROETHENE					4.7	J	P	2.1	UJ	C	1.4	U	
1,2,4-TRICHLOROBENZENE					33	U		9.7	U		6.6	U	
1,2,4-TRIMETHYLBENZENE					8.7	U		2.6	U		1.7	U	
1,2-DIBROMO-3-CHLOROPROPANE					43	U		12.6	U		8.6	U	
1,2-DIBROMOETHANE					13.6	U		4	U		2.7	U	
1,2-DICHLOROBENZENE					10.7	U		3.1	U		2.1	U	
1,2-DICHLOROETHANE					3.6	U		1.1	U		0.72	U	
1,2-DICHLOROPROPANE					8.2	U		2.4	U		1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE					12.4	U		3.6	U		2.5	U	
1,3,5-TRIMETHYLBENZENE					8.7	U		2.6	U		1.7	U	
1,3-BUTADIENE					3.9	U		1.2	U		0.79	U	
1,3-DICHLOROBENZENE					10.7	U		3.1	U		2.1	U	
1,4-DICHLOROBENZENE					10.7	U		7.9	U		2.1	U	
1,4-DIOXANE					32	U		9.4	U		6.4	U	
1-ETHYL-4-METHYL BENZENE					8.8	U		2.6	U		1.8	U	
2-BUTANONE					26.2	U		7.7	U		3	J	P
2-HEXANONE					36.4	U		10.7	U		7.3	U	
3-CHLOROPROPENE					13.9	U		4.1	U		2.8	U	
4-METHYL-2-PENTANONE					36.4	U		10.7	U		7.3	U	
ACETONE					17.6	J	P	15.6	J	CE	15.2		
BENZENE					2.8	U		0.84	U		0.57	U	
BROMODICHLOROMETHANE					11.9	U		17.5	U		2.4	U	
BROMOFORM					18.4	U		5.4	U		3.7	U	
BROMOMETHANE					6.9	U		2	UJ	C	1.4	U	
CARBON DISULFIDE					5.5	U		1.6	U		1.1	U	
CARBON TETRACHLORIDE					5.6	U		1.6	UJ	C	1.1	U	
CHLOROBENZENE					8.2	U		2.4	U		1.6	U	
CHLORODIBROMOMETHANE					15.1	U		4.4	U		3	U	
CHLORODIFLUOROMETHANE					6.3	U		1.8	U		1.3	J	P

PROJ_NO: 07792	NSAMPLE	VP-3_30_20170307			VP-3_5_20170307			VP-3_5_20170307DUP			VP-3D_40_20170307		
SDG: 10381335	LAB_ID	10381335027			10381335010			10381335026			10381335013		
FRACTION: OV	SAMP_DATE	3/7/2017			3/7/2017			3/7/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF							VP-3_5_20170307					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		10.2	U		1.9	U		1.9	U		1.9	U	
1,1,2,2-TETRACHLOROETHANE		6.4	U		1.2	U		1.2	U		1.2	U	
1,1,2-TRICHLOROETHANE		5	U		0.92	U		0.92	U		0.92	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		14.6	U		1.1	J	P	1	J	P	4.3	J	E
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		29.1	U		5.3	U		5.3	U		5.3	U	
1,1-DICHLOROETHANE		7.5	U		1.4	U		1.4	U		1.4	UJ	C
1,1-DICHLOROETHENE		7.4	U		1.4	U		1.4	U		1.4	UJ	C
1,2,4-TRICHLOROBENZENE		34.5	U		6.3	U		6.3	U		6.3	U	
1,2,4-TRIMETHYLBENZENE		9.1	U		1.7	U		1.7	U		2.7		
1,2-DIBROMO-3-CHLOROPROPANE		44.9	U		8.2	U		8.2	U		8.2	U	
1,2-DIBROMOETHANE		14.3	U		2.6	U		2.6	U		2.6	U	
1,2-DICHLOROBENZENE		11.2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE		3.8	U		0.69	U		0.69	U		0.69	U	
1,2-DICHLOROPROPANE		8.6	U		1.6	U		1.6	U		1.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		13	U		2.4	U		2.4	U		2.4	U	
1,3,5-TRIMETHYLBENZENE		9.1	U		1.7	U		1.7	U		1.7	U	
1,3-BUTADIENE		4.1	U		0.76	U		0.76	U		0.76	U	
1,3-DICHLOROBENZENE		11.2	U		2	U		2	U		2	U	
1,4-DICHLOROBENZENE		11.2	U		2	U		2	U		5.1	U	
1,4-DIOXANE		33.5	U		6.1	U		6.1	U		6.1	U	
1-ETHYL-4-METHYL BENZENE		9.2	U		1.7	U		1.7	U		1.7	U	
2-BUTANONE		27.4	U		3.9	J	P	3.1	J	P	6.7	J	E
2-HEXANONE		38.1	U		7	U		7	U		7	U	
3-CHLOROPROPENE		14.5	U		2.7	U		2.7	U		2.7	U	
4-METHYL-2-PENTANONE		38.1	U		7	U		7	U		7	U	
ACETONE		22.1	U		24.3			32.4			88.2	J	CE
BENZENE		3	U		0.55	U		0.55	U		0.33	J	P
BROMODICHLOROMETHANE		12.4	U		2.3	U		2.3	U		11.4	U	
BROMOFORM		19.2	U		3.5	U		3.5	U		3.5	U	
BROMOMETHANE		7.2	U		1.3	U		1.3	U		1.3	UJ	C
CARBON DISULFIDE		5.8	U		1.1	U		1.1	U		1.6		
CARBON TETRACHLORIDE		5.9	U		1.1	U		1.1	U		1.1	UJ	C
CHLOROBENZENE		8.6	U		1.6	U		1.6	U		1.6	U	
CHLORODIBROMOMETHANE		15.8	U		2.9	U		2.9	U		2.9	U	
CHLORODIFLUOROMETHANE		6.6	U		1.2	U		1.8			1.2	U	

PROJ_NO: 07792	NSAMPLE	VP-3D_51_20170307			VP-3D_61_20170307			VP-3D_73_20170307			VP-3D_73_20170307DUP		
SDG: 10381335	LAB_ID	10381335014			10381335015			10381335016			10381335025		
FRACTION: OV	SAMP_DATE	3/7/2017			3/7/2017			3/7/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF										VP-3D_73_20170307		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		9.7	U		9.7	U		5.9	J	P	5.6	J	P
1,1,2,2-TETRACHLOROETHANE		6.1	U		6.1	U		5.9	U		5.6	U	
1,1,2-TRICHLOROETHANE		4.8	U		4.8	U		4.6	U		4.4	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		15.8			28.8			32.5			31.8		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		27.8	U		27.8	U		26.7	U		25.6	U	
1,1-DICHLOROETHANE		7.2	U		7.2	U		6.9	U		6.6	U	
1,1-DICHLOROETHENE		7.1	U		7.1	U		6.8	U		6.5	U	
1,2,4-TRICHLOROBENZENE		33	U		33	U		31.7	U		30.3	U	
1,2,4-TRIMETHYLBENZENE		8.7	U		8.7	U		8.4	U		8	U	
1,2-DIBROMO-3-CHLOROPROPANE		43	U		43	U		41.2	U		39.5	U	
1,2-DIBROMOETHANE		13.6	U		13.6	U		13.1	U		12.6	U	
1,2-DICHLOROBENZENE		10.7	U		10.7	U		10.2	U		9.8	U	
1,2-DICHLOROETHANE		3.6	U		3.6	U		3.4	U		3.3	U	
1,2-DICHLOROPROPANE		8.2	U		8.2	U		7.9	U		7.6	U	
1,2-DICHLOROTETRAFLUOROETHANE		12.4	U		12.4	U		11.9	U		11.4	U	
1,3,5-TRIMETHYLBENZENE		8.7	U		8.7	U		8.4	U		8	U	
1,3-BUTADIENE		3.9	U		3.9	U		3.8	U		3.6	U	
1,3-DICHLOROBENZENE		10.7	U		10.7	U		10.2	U		9.8	U	
1,4-DICHLOROBENZENE		10.7	U		10.7	U		10.2	U		9.8	U	
1,4-DIOXANE		32	U		32	U		30.7	U		29.5	U	
1-ETHYL-4-METHYL BENZENE		8.8	U		8.8	U		8.4	U		8	U	
2-BUTANONE		26.2	U		26.2	U		25.2	U		24.2	U	
2-HEXANONE		36.4	U		36.4	U		35	U		33.5	U	
3-CHLOROPROPENE		13.9	U		13.9	U		13.4	U		12.8	U	
4-METHYL-2-PENTANONE		36.4	U		36.4	U		35	U		33.5	U	
ACETONE		13.6	J	P	11.8	J	P	16.4	J	P	13.3	J	P
BENZENE		2.8	U		2.8	U		2.7	U		2.6	U	
BROMODICHLOROMETHANE		11.9	U		11.9	U		11.4	U		10.9	U	
BROMOFORM		18.4	U		9.9	J	P	17.6	U		16.9	U	
BROMOMETHANE		6.9	U		6.9	U		6.6	U		6.4	U	
CARBON DISULFIDE		5.5	U		5.5	U		5.3	U		5.1	U	
CARBON TETRACHLORIDE		5.6	U		5.6	U		5.4	U		5.2	U	
CHLOROBENZENE		8.2	U		8.2	U		7.9	U		7.6	U	
CHLORODIBROMOMETHANE		15.1	U		17.3			14.5	U		13.9	U	
CHLORODIFLUOROMETHANE		6.3	U		6.3	U		11.7			9.7		

PROJ_NO: 07792	NSAMPLE	L15-VP-7_30_20170306			L15-VP-7_30_20170306-DL			VP-102_4.5_20170306			VP-107_13_20170306		
SDG: 10381335	LAB_ID	10381335002			10381335002			10381335001			10381335004		
FRACTION: OV	SAMP_DATE	3/6/2017			3/6/2017			3/6/2017			3/6/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.99	U					0.94	U		0.94	U	
CHLOROFORM					2650	J	P	0.59	J	P	2.3		
CHLOROMETHANE		0.77	U					1.1			0.74	U	
CIS-1,2-DICHLOROETHENE					59400			8.2			1.4	U	
CIS-1,3-DICHLOROPROPENE		1.7	U					1.6	U		1.6	U	
CYCLOHEXANE		1.3	U					5.6			1.2	U	
DICHLORODIFLUOROMETHANE		2.3						2.9			2.8		
ETHYLBENZENE		1.6	U					2.6			1.5	U	
HEXACHLOROBUTADIENE		4	U					3.8	U		3.8	U	
HEXANE		4.5						6.5			2.4		
ISOPROPANOL		4.6	U					69	J	E	3.6	J	P
ISOPROPYLBENZENE		4.6	U					4.4	U		4.4	U	
M+P-XYLENES		3.2	U					10.1			1.6	J	P
METHYL ACETATE		2.8	U					2.7	U		2.7	U	
METHYL CYCLOHEXANE		1.5	J	P				1.4	U		1.4	U	
METHYL TERT-BUTYL ETHER		6.7	U					6.4	U		6.4	U	
METHYLENE CHLORIDE		3.7	J	AP				9.5	J	A	9.3	J	A
O-XYLENE		1.6	U					2.8			0.84	J	P
PENTAFLUOROETHYL CHLORIDE		5.9	U					5.6	U		5.6	UR	E
STYRENE		1.6	U					1.5	U		1.5	U	
TETRACHLOROETHENE					430000			88.3			1.2	U	
TOLUENE		4						3.1			3.6		
TRANS-1,2-DICHLOROETHENE		129						1.4	U		1.4	U	
TRANS-1,3-DICHLOROPROPENE		4.2	U					4	U		4	U	
TRICHLOROETHENE					650000			113			53		
TRICHLOROFLUOROMETHANE		18.7						1.5	J	P	1.4	J	P
VINYL CHLORIDE		0.48	U					0.46	U		0.46	U	

PROJ_NO: 07792	NSAMPLE	VP-107_20_20170306			VP-107_20_20170306-DL			VP-107_33.5_20170306			VP-107_33.5_20170306-DL		
SDG: 10381335	LAB_ID	10381335005			10381335005			10381335006			10381335006		
FRACTION: OV	SAMP_DATE	3/6/2017			3/6/2017			3/6/2017			3/6/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		43.5	U					17.4	U				
CHLOROFORM		185						157					
CHLOROMETHANE		33.8	U					13.5	U				
CIS-1,2-DICHLOROETHENE		218						605					
CIS-1,3-DICHLOROPROPENE		74.1	U					29.6	U				
CYCLOHEXANE		56.4	U					22.5	U				
DICHLORODIFLUOROMETHANE		81.3	U					32.5	U				
ETHYLBENZENE		70.8	U					28.3	U				
HEXACHLOROBUTADIENE		175	U					69.8	U				
HEXANE		58	U					23.2	U				
ISOPROPANOL		201	U					80.5	U				
ISOPROPYLBENZENE		201	U					80.5	U				
M+P-XYLENES		142	U					57	U				
METHYL ACETATE		124	U					49.6	U				
METHYL CYCLOHEXANE		65.7	U					26.3	U				
METHYL TERT-BUTYL ETHER		295	U					118	U				
METHYLENE CHLORIDE		284	U					114	U				
O-XYLENE		70.8	U					28.3	U				
PENTAFLUOROETHYL CHLORIDE		258	UR	E				103	UR	E			
STYRENE		70	U					28	U				
TETRACHLOROETHENE		568						1360					
TOLUENE		62	U					21.8	J	P			
TRANS-1,2-DICHLOROETHENE		65.2	U					51.3					
TRANS-1,3-DICHLOROPROPENE		186	U					74.3	U				
TRICHLOROETHENE					307000						535000		
TRICHLOROFLUOROMETHANE		80.5	J	P				85.5					
VINYL CHLORIDE		20.9	U					8.4	U				

PROJ_NO: 07792	NSAMPLE	VP-107_44_20170306			VP-107_44_20170306-DL			VP-107_44_20170306-RE			VP-107_5_20170306		
SDG: 10381335	LAB_ID	10381335007			10381335007			10381335007			10381335003		
FRACTION: OV	SAMP_DATE	3/6/2017			3/6/2017			3/6/2017			3/6/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		49.4	U								0.99	U	
CHLOROFORM		161	J	CE							0.72	J	P
CHLOROMETHANE		38.4	U								1.2		
CIS-1,2-DICHLOROETHENE								838			15.4		
CIS-1,3-DICHLOROPROPENE		84.2	U								1.7	U	
CYCLOHEXANE		64	U								1.3	U	
DICHLORODIFLUOROMETHANE		92.4	U								2.8		
ETHYLBENZENE		80.5	U								1.6	U	
HEXACHLOROBUTADIENE		198	U								4	U	
HEXANE		65.9	UJ	C							1.2	J	P
ISOPROPANOL		229	U								4.6	U	
ISOPROPYLBENZENE		229	U								4.6	U	
M+P-XYLENES		162	U								3.2	U	
METHYL ACETATE		141	U								2.8	U	
METHYL CYCLOHEXANE		74.7	U								1.5	U	
METHYL TERT-BUTYL ETHER		335	UJ	C							6.7	U	
METHYLENE CHLORIDE		323	U								6.7	J	A
O-XYLENE		80.5	U								1.6	U	
PENTAFLUOROETHYL CHLORIDE		294	U								5.9	U	
STYRENE		79.6	U								1.6	U	
TETRACHLOROETHENE		1530									114		
TOLUENE		70.5	U								1.7		
TRANS-1,2-DICHLOROETHENE		74.1	UJ	C							1.5	U	
TRANS-1,3-DICHLOROPROPENE		84.2	U								4.2	U	
TRICHLOROETHENE								71000			184		
TRICHLOROFLUOROMETHANE		104	UJ	C							1.4	J	P
VINYL CHLORIDE		23.8	U								0.48	U	

PROJ_NO: 07792	NSAMPLE	VP-107_60_20170306			VP-107_60_20170306-DL			VP-107_74_20170306			VP-108_10_20170307		
SDG: 10381335	LAB_ID	10381335008			10381335008			10381335009			10381335018		
FRACTION: OV	SAMP_DATE	3/6/2017			3/6/2017			3/6/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		18.1	U					19.8	U		0.91	U	
CHLOROFORM		81.9						69.1			0.83	U	
CHLOROMETHANE		14.1	U					15.4	U		0.71	U	
CIS-1,2-DICHLOROETHENE		446						302			1.4	U	
CIS-1,3-DICHLOROPROPENE		30.9	U					33.7	U		1.5	U	
CYCLOHEXANE		23.5	U					25.6	U		1.2	U	
DICHLORODIFLUOROMETHANE		33.9	U					37	U		2.9		
ETHYLBENZENE		29.6	U					32.2	U		1.5	U	
HEXACHLOROBUTADIENE		72.8	U					79.3	U		3.6	U	
HEXANE		24.2	U					26.4	U		1.1	J	P
ISOPROPANOL		84	U					91.5	U		22.4		
ISOPROPYLBENZENE		84	U					91.5	U		4.2	U	
M+P-XYLENES		59.5	U					64.8	U		3	U	
METHYL ACETATE		51.7	U					56.4	U		2.6	U	
METHYL CYCLOHEXANE		27.4	U					29.9	U		1.4	U	
METHYL TERT-BUTYL ETHER		123	U					134	U		6.2	U	
METHYLENE CHLORIDE		119	U					129	U		7.7	J	A
O-XYLENE		29.6	U					32.2	U		1.5	U	
PENTAFLUOROETHYL CHLORIDE		108	UR	E				117	UR	E	5.4	UR	E
STYRENE		29.2	U					31.8	U		1.5	U	
TETRACHLOROETHENE		1390						1090			7.7		
TOLUENE		25.9	U					22	J	P	1.3	U	
TRANS-1,2-DICHLOROETHENE		27.2	U					29.6	U		1.4	U	
TRANS-1,3-DICHLOROPROPENE		77.5	U					84.4	U		3.9	U	
TRICHLOROETHENE					20400			5840			5.4		
TRICHLOROFLUOROMETHANE		25.6	J	P				41.7	U		1.7	J	P
VINYL CHLORIDE		8.7	U					9.5	U		0.44	U	

PROJ_NO: 07792	NSAMPLE	VP-108_20_20170307			VP-108_20_20170307-DL			VP-108_29.5_20170307			VP-108_29.5_20170307-DL		
SDG: 10381335	LAB_ID	10381335019			10381335019			10381335020			10381335020		
FRACTION: OV	SAMP_DATE	3/7/2017			3/7/2017			3/7/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.55	J	P				79.1	U				
CHLOROFORM		0.92						116	J	CE			
CHLOROMETHANE		0.74	U					61.5	U				
CIS-1,2-DICHLOROETHENE		33.8									42300		
CIS-1,3-DICHLOROPROPENE		1.6	U					135	U				
CYCLOHEXANE		1.2	U					102	U				
DICHLORODIFLUOROMETHANE		2.9						148	U				
ETHYLBENZENE		1.5	U					129	U				
HEXACHLOROBUTADIENE		3.8	U					317	U				
HEXANE		1.2	J	P				105	UJ	C			
ISOPROPANOL		4.3	J	P				366	U				
ISOPROPYLBENZENE		4.4	U					366	U				
M+P-XYLENES		3.1	U					259	U				
METHYL ACETATE		2.7	U					225	U				
METHYL CYCLOHEXANE		1.4	U					119	U				
METHYL TERT-BUTYL ETHER		6.4	U					537	UJ	C			
METHYLENE CHLORIDE		5.8	J	AP				517	U				
O-XYLENE		1.5	U					129	U				
PENTAFLUOROETHYL CHLORIDE		5.6	UR	E				470	U				
STYRENE		1.5	U					127	U				
TETRACHLOROETHENE					958						209000		
TOLUENE		1.3	J	P				113	U				
TRANS-1,2-DICHLOROETHENE		1.4	U					308	J	CE			
TRANS-1,3-DICHLOROPROPENE		4	U					135	U				
TRICHLOROETHENE		69.4						13800					
TRICHLOROFLUOROMETHANE		1.7	J	P				167	UJ	C			
VINYL CHLORIDE		0.46	U					38.1	U				

PROJ_NO: 07792	NSAMPLE	VP-108_5_20170307			VP-108D_50.5_20170307			VP-108D_50.5_20170307DUP			VP-108D_60_20170307		
SDG: 10381335	LAB_ID	10381335017			10381335021			10381335024			10381335022		
FRACTION: OV	SAMP_DATE	3/7/2017			3/7/2017			3/7/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF							VP-108D_50.5_20170307					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.68	J	P	9.1	U		9.9	U		0.94	U	
CHLOROFORM		0.8	U		8.3	UJ	C	9.1	UJ	C	0.64	J	P
CHLOROMETHANE		1.8			7.1	U		7.7	U		0.74	U	
CIS-1,2-DICHLOROETHENE		1.3	U		878			692					
CIS-1,3-DICHLOROPROPENE		1.5	U		15.5	U		16.8	U		1.6	U	
CYCLOHEXANE		2			11.8	U		12.8	U		1.2	U	
DICHLORODIFLUOROMETHANE		3.1			17	U		18.5	U		6.1		
ETHYLBENZENE		2.5			3.9	J	P	2.8	J	P	5		
HEXACHLOROBUTADIENE		3.5	U		91.1	U		99.2	U		3.8	U	
HEXANE		2.6			12.1	U		13.2	U		2.6		
ISOPROPANOL		7.9			42	U		45.8	U		4.4	U	
ISOPROPYLBENZENE		4	U		42	U		45.8	U		4.4	U	
M+P-XYLENES		10.5			23	J	P	13.7	J	P	36.3		
METHYL ACETATE		2.5	U		25.9	U		28.2	U		2.7	U	
METHYL CYCLOHEXANE		0.97	J	P	13.7	U		14.9	U		1.4	U	
METHYL TERT-BUTYL ETHER		5.9	U		61.6	U		67.1	U		6.4	U	
METHYLENE CHLORIDE		19.2	J	A	31	J	AP	10.7	J	AP	6.1	J	AP
O-XYLENE		4.2			14.8	U		16.1	U		1.8		
PENTAFLUOROETHYL CHLORIDE		5.2	UR	E	53.9	U		58.7	U		5.6	UR	E
STYRENE		230			14.6	U		15.9	U		1.5	U	
TETRACHLOROETHENE		0.78	J	P	48.8			33.7			99.5		
TOLUENE		8.3			44.8			27.6			111		
TRANS-1,2-DICHLOROETHENE		1.3	U		13.6	U		14.8	U		8.1		
TRANS-1,3-DICHLOROPROPENE		3.7	U		15.5	UJ	C	16.8	UJ	C	1	J	P
TRICHLOROETHENE		0.89	U		33.5			22.8			127		
TRICHLOROFLUOROMETHANE		1.8	J	P	19.2	U		20.9	U		12.5		
VINYL CHLORIDE		0.42	U		4.4	U		4.8	U		0.46	U	

PROJ_NO: 07792	NSAMPLE	VP-108D_60_20170307-DL			VP-108D_70_20170307			VP-3_10_20170307			VP-3_20_20170307		
SDG: 10381335	LAB_ID	10381335022			10381335023			10381335011			10381335012		
FRACTION: OV	SAMP_DATE	3/7/2017			3/7/2017			3/7/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					4.7	U		1.4	U		0.94	U	
CHLOROFORM					4.3	U		0.89	J	CEP	2.5		
CHLOROMETHANE					3.7	U		1.1	U		0.74	U	
CIS-1,2-DICHLOROETHENE		3510			535			2.1	UJ	C	8.9		
CIS-1,3-DICHLOROPROPENE					8	U		2.4	U		1.6	U	
CYCLOHEXANE					6.1	U		1.8	U		1.2	U	
DICHLORODIFLUOROMETHANE					10.3			2.7			2.5		
ETHYLBENZENE					6.2	J	P	2.3	U		1.5	U	
HEXACHLOROBUTADIENE					19	U		5.6	U		3.8	U	
HEXANE					6.3	U		1.6	J	CEP	1.3	U	
ISOPROPANOL					21.9	U		6.4	U		4.4	U	
ISOPROPYLBENZENE					21.9	U		6.4	U		4.4	U	
M+P-XYLENES					45.8			4.5	U		3.1	U	
METHYL ACETATE					39.1			4	U		2.7	U	
METHYL CYCLOHEXANE					7.1	U		2.1	U		1.4	U	
METHYL TERT-BUTYL ETHER					32.1	U		9.4	UJ	C	6.4	U	
METHYLENE CHLORIDE					30.9	U		9.1	J	A	8.2	J	A
O-XYLENE					7.7	U		2.3	U		1.5	U	
PENTAFLUOROETHYL CHLORIDE					28.1	UR	E	8.2	U		5.6	UR	E
STYRENE					7.6	U		2.2	U		1.5	U	
TETRACHLOROETHENE					118			35.9			127		
TOLUENE					124			2	U		0.7	J	P
TRANS-1,2-DICHLOROETHENE					7.1	U		2.1	UJ	C	1.4	U	
TRANS-1,3-DICHLOROPROPENE					20.2	U		2.4	U		4	U	
TRICHLOROETHENE					30.9			9.7			46.3		
TRICHLOROFLUOROMETHANE					15.7			1.9	J	CEP	1.5	J	P
VINYL CHLORIDE					2.3	U		0.67	U		0.46	U	

PROJ_NO: 07792	NSAMPLE	VP-3_30_20170307			VP-3_5_20170307			VP-3_5_20170307DUP			VP-3D_40_20170307		
SDG: 10381335	LAB_ID	10381335027			10381335010			10381335026			10381335013		
FRACTION: OV	SAMP_DATE	3/7/2017			3/7/2017			3/7/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF							VP-3_5_20170307					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		4.9	U		0.91	U		0.91	U		0.91	U	
CHLOROFORM		7.2			1.7			1.3			5.2	J	CE
CHLOROMETHANE		3.8	U		0.6	J	P	0.71	U		0.71	U	
CIS-1,2-DICHLOROETHENE		23.8			1.4	U		1.4	U		20.1	J	CE
CIS-1,3-DICHLOROPROPENE		8.4	U		1.5	U		1.5	U		1.5	U	
CYCLOHEXANE		6.4	U		1.2	U		1.2	U		1.2	U	
DICHLORODIFLUOROMETHANE		4.7	J	P	2.6			2.7			2.3		
ETHYLBENZENE		8.1	U		1.5	U		1.5	U		1.5	U	
HEXACHLOROBUTADIENE		19.8	U		3.6	U		3.6	U		3.6	U	
HEXANE		6.6	U		2.9			1.5			2.3	J	CE
ISOPROPANOL		22.9	U		2.4	J	P	2.1	J	P	17.8	J	E
ISOPROPYLBENZENE		22.9	U		4.2	U		4.2	U		4.2	U	
M+P-XYLENES		16.2	U		3	U		3	U		2.1	J	P
METHYL ACETATE		14.1	U		2.6	U		2.6	U		2.6	U	
METHYL CYCLOHEXANE		7.5	U		1.4	U		1.4	U		1.4	U	
METHYL TERT-BUTYL ETHER		33.5	U		6.2	U		6.2	U		6.2	UJ	C
METHYLENE CHLORIDE		32.3	U		30.8	J	AG	114	J	AG	143	J	A
O-XYLENE		8.1	U		1.5	U		1.5	U		1.5	U	
PENTAFLUOROETHYL CHLORIDE		29.4	UR	E	5.4	UR	E	5.4	UR	E	5.4	U	
STYRENE		8	U		1.5	U		0.79	J	P	1.5	U	
TETRACHLOROETHENE		172			13.8			14			69.6		
TOLUENE		7	U		0.97	J	P	1.3	U		1.3	U	
TRANS-1,2-DICHLOROETHENE		7.4	U		1.4	U		1.4	U		1.4	UJ	C
TRANS-1,3-DICHLOROPROPENE		21.1	U		3.9	U		3.9	U		1.5	U	
TRICHLOROETHENE		83.4			1.7			2.3			33.3		
TRICHLOROFLUOROMETHANE		10.4	U		1.5	J	P	1.5	J	P	1.6	J	CEP
VINYL CHLORIDE		2.4	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 07792	NSAMPLE	VP-3D_51_20170307			VP-3D_61_20170307			VP-3D_73_20170307			VP-3D_73_20170307DUP		
SDG: 10381335	LAB_ID	10381335014			10381335015			10381335016			10381335025		
FRACTION: OV	SAMP_DATE	3/7/2017			3/7/2017			3/7/2017			3/7/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF										VP-3D_73_20170307		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		4.7	U		4.7	U		4.5	U		4.3	U	
CHLOROFORM		13.3			7.5			5.7			5.3		
CHLOROMETHANE		3.7	U		3.7	U		3.5	U		3.4	U	
CIS-1,2-DICHLOROETHENE		193			133			16.1			18.3		
CIS-1,3-DICHLOROPROPENE		8	U		8	U		7.7	U		7.4	U	
CYCLOHEXANE		6.1	U		6.1	U		5.9	U		5.6	U	
DICHLORODIFLUOROMETHANE		8.8	U		6.5	J	P	7.2	J	P	7.2	J	P
ETHYLBENZENE		7.7	U		7.7	U		7.4	U		7.1	U	
HEXACHLOROBUTADIENE		19	U		19	U		18.2	U		17.5	U	
HEXANE		6.3	U		6.3	U		6	U		5.8	U	
ISOPROPANOL		21.9	U		21.9	U		21	U		20.1	U	
ISOPROPYLBENZENE		21.9	U		21.9	U		21	U		20.1	U	
M+P-XYLENES		15.5	U		15.5	U		14.9	U		14.2	U	
METHYL ACETATE		13.5	U		13.5	U		12.9	U		12.4	U	
METHYL CYCLOHEXANE		7.1	U		7.1	U		6.9	U		6.6	U	
METHYL TERT-BUTYL ETHER		32.1	U		32.1	U		30.8	U		29.5	U	
METHYLENE CHLORIDE		121	J	A	125	J	A	29.7	U		28.4	U	
O-XYLENE		7.7	U		7.7	U		7.4	U		7.1	U	
PENTAFLUOROETHYL CHLORIDE		28.1	UR	E	28.1	UR	E	27	UR	E	25.8	UR	E
STYRENE		7.6	U		7.6	U		7.3	U		7	U	
TETRACHLOROETHENE		372			611			461			480		
TOLUENE		6.7	U		6.7	U		6.5	U		6.2	U	
TRANS-1,2-DICHLOROETHENE		7.1	U		7.1	U		6.8	U		6.5	U	
TRANS-1,3-DICHLOROPROPENE		20.2	U		20.2	U		19.4	U		18.6	U	
TRICHLOROETHENE		139			242			186			237		
TRICHLOROFLUOROMETHANE		10	U		10	U		9.6	U		9.2	U	
VINYL CHLORIDE		2.3	U		2.3	U		2.2	U		2.1	U	

Appendix B

Results as Reported by the Laboratory

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-102_4.5_20170306 **Lab ID: 10381335001** Collected: 03/06/17 14:10 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**422**	ug/m3	4.2	1.5	1.75		03/28/17 02:50	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/28/17 02:50	107-05-1	
Benzene	**1.0**	ug/m3	0.57	0.21	1.75		03/28/17 02:50	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/28/17 02:50	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/28/17 02:50	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/28/17 02:50	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/28/17 02:50	106-99-0	
2-Butanone (MEK)	**10.7**	ug/m3	5.2	0.40	1.75		03/28/17 02:50	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/28/17 02:50	75-15-0	
Carbon tetrachloride	**0.57J**	ug/m3	1.1	0.34	1.75		03/28/17 02:50	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/28/17 02:50	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/28/17 02:50	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/28/17 02:50	75-00-3	
Chloroform	**0.59J**	ug/m3	0.87	0.33	1.75		03/28/17 02:50	67-66-3	
Chloromethane	**1.1**	ug/m3	0.74	0.19	1.75		03/28/17 02:50	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 02:50	76-15-3	
Cyclohexane	**5.6**	ug/m3	1.2	0.55	1.75		03/28/17 02:50	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/28/17 02:50	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/28/17 02:50	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/28/17 02:50	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/28/17 02:50	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/28/17 02:50	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/28/17 02:50	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.84	1.75		03/28/17 02:50	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/28/17 02:50	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/28/17 02:50	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 02:50	75-35-4	
cis-1,2-Dichloroethene	**8.2**	ug/m3	1.4	0.43	1.75		03/28/17 02:50	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/28/17 02:50	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/28/17 02:50	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/28/17 02:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	4.0	0.46	1.75		03/28/17 02:50	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/28/17 02:50	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 02:50	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/28/17 02:50	123-91-1	
Ethylbenzene	**2.6**	ug/m3	1.5	0.74	1.75		03/28/17 02:50	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/28/17 02:50	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/28/17 02:50	87-68-3	
n-Hexane	**6.5**	ug/m3	1.3	0.62	1.75		03/28/17 02:50	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/28/17 02:50	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/28/17 02:50	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/28/17 02:50	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 02:50	108-87-2	
Methylene Chloride	**9.5**	ug/m3	6.2	0.95	1.75		03/28/17 02:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/28/17 02:50	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/28/17 02:50	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-102_4.5_20170306 **Lab ID: 10381335001** Collected: 03/06/17 14:10 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**69.0**	ug/m3	4.4	0.42	1.75		03/28/17 02:50	67-63-0	L1
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/28/17 02:50	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/28/17 02:50	79-34-5	
Tetrachloroethene	**88.3**	ug/m3	1.2	0.49	1.75		03/28/17 02:50	127-18-4	
Toluene	**3.1**	ug/m3	1.3	0.27	1.75		03/28/17 02:50	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/28/17 02:50	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/28/17 02:50	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/28/17 02:50	79-00-5	
Trichloroethene	**113**	ug/m3	0.96	0.48	1.75		03/28/17 02:50	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.0	0.23	1.75		03/28/17 02:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.3J**	ug/m3	2.8	0.53	1.75		03/28/17 02:50	76-13-1	
1,2,4-Trimethylbenzene	**0.92J**	ug/m3	1.7	0.22	1.75		03/28/17 02:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/28/17 02:50	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/28/17 02:50	75-01-4	
m&p-Xylene	**10.1**	ug/m3	3.1	1.4	1.75		03/28/17 02:50	179601-23-1	
o-Xylene	**2.8**	ug/m3	1.5	0.61	1.75		03/28/17 02:50	95-47-6	

Sample: L15-VP-7_30_20170306 **Lab ID: 10381335002** Collected: 03/06/17 14:08 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**2.9J**	ug/m3	4.4	1.5	1.83		03/28/17 03:22	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/28/17 03:22	107-05-1	
Benzene	**14.5**	ug/m3	0.59	0.22	1.83		03/28/17 03:22	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/28/17 03:22	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/28/17 03:22	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/28/17 03:22	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/28/17 03:22	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/28/17 03:22	78-93-3	
Carbon disulfide	**0.81J**	ug/m3	1.2	0.18	1.83		03/28/17 03:22	75-15-0	
Carbon tetrachloride	**6.6**	ug/m3	1.2	0.35	1.83		03/28/17 03:22	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/28/17 03:22	108-90-7	
Chlorodifluoromethane	**75.3**	ug/m3	1.3	0.51	1.83		03/28/17 03:22	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/28/17 03:22	75-00-3	
Chloroform	**389**	ug/m3	0.91	0.35	1.83		03/28/17 03:22	67-66-3	
Chloroform	**2650J**	ug/m3	5070	1940	10222.59		03/30/17 04:09	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/28/17 03:22	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/28/17 03:22	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/28/17 03:22	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/28/17 03:22	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/28/17 03:22	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/28/17 03:22	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: L15-VP-7_30_20170306 **Lab ID: 10381335002** Collected: 03/06/17 14:08 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/28/17 03:22	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/28/17 03:22	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/28/17 03:22	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.8	0.88	1.83		03/28/17 03:22	75-71-8	
1,1-Dichloroethane	**34.2**	ug/m3	1.5	0.29	1.83		03/28/17 03:22	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/28/17 03:22	107-06-2	
1,1-Dichloroethene	**7.3**	ug/m3	1.5	0.44	1.83		03/28/17 03:22	75-35-4	
cis-1,2-Dichloroethene	**3150**	ug/m3	1.5	0.45	1.83		03/28/17 03:22	156-59-2	
cis-1,2-Dichloroethene	**59400**	ug/m3	8280	2510	10222.59		03/30/17 04:09	156-59-2	A3
trans-1,2-Dichloroethene	**129**	ug/m3	1.5	0.70	1.83		03/28/17 03:22	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/28/17 03:22	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/28/17 03:22	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	4.2	0.48	1.83		03/28/17 03:22	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/28/17 03:22	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/28/17 03:22	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/28/17 03:22	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/28/17 03:22	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/28/17 03:22	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/28/17 03:22	87-68-3	
n-Hexane	**4.5**	ug/m3	1.3	0.65	1.83		03/28/17 03:22	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/28/17 03:22	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/28/17 03:22	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/28/17 03:22	79-20-9	
Methylcyclohexane	**1.5J**	ug/m3	1.5	0.44	1.83		03/28/17 03:22	108-87-2	
Methylene Chloride	**3.7J**	ug/m3	6.5	0.99	1.83		03/28/17 03:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/28/17 03:22	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/28/17 03:22	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/28/17 03:22	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/28/17 03:22	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/28/17 03:22	79-34-5	
Tetrachloroethene	**9080**	ug/m3	1.3	0.51	1.83		03/28/17 03:22	127-18-4	
Tetrachloroethene	**430000**	ug/m3	7040	2840	10222.59		03/30/17 04:09	127-18-4	
Toluene	**4.0**	ug/m3	1.4	0.28	1.83		03/28/17 03:22	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/28/17 03:22	120-82-1	
1,1,1-Trichloroethane	**1.3J**	ug/m3	2.0	0.45	1.83		03/28/17 03:22	71-55-6	
1,1,2-Trichloroethane	**2.9**	ug/m3	1.0	0.45	1.83		03/28/17 03:22	79-00-5	
Trichloroethene	**6930**	ug/m3	1.0	0.51	1.83		03/28/17 03:22	79-01-6	
Trichloroethene	**650000**	ug/m3	5620	2820	10222.59		03/30/17 04:09	79-01-6	
Trichlorofluoromethane	**18.7**	ug/m3	2.1	0.24	1.83		03/28/17 03:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	**457**	ug/m3	2.9	0.55	1.83		03/28/17 03:22	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/28/17 03:22	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/28/17 03:22	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/28/17 03:22	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/28/17 03:22	179601-23-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: L15-VP-7_30_20170306 **Lab ID: 10381335002** Collected: 03/06/17 14:08 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/28/17 03:22	95-47-6	

Sample: VP-107_5_20170306 **Lab ID: 10381335003** Collected: 03/06/17 13:08 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**5.6**	ug/m3	4.4	1.5	1.83		03/28/17 03:53	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/28/17 03:53	107-05-1	
Benzene	**0.88**	ug/m3	0.59	0.22	1.83		03/28/17 03:53	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/28/17 03:53	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/28/17 03:53	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/28/17 03:53	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/28/17 03:53	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/28/17 03:53	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/28/17 03:53	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/28/17 03:53	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/28/17 03:53	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/28/17 03:53	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/28/17 03:53	75-00-3	
Chloroform	**0.72J**	ug/m3	0.91	0.35	1.83		03/28/17 03:53	67-66-3	
Chloromethane	**1.2**	ug/m3	0.77	0.20	1.83		03/28/17 03:53	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/28/17 03:53	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/28/17 03:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/28/17 03:53	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/28/17 03:53	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/28/17 03:53	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/28/17 03:53	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/28/17 03:53	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/28/17 03:53	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	0.88	1.83		03/28/17 03:53	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/28/17 03:53	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/28/17 03:53	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/28/17 03:53	75-35-4	
cis-1,2-Dichloroethene	**15.4**	ug/m3	1.5	0.45	1.83		03/28/17 03:53	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/28/17 03:53	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/28/17 03:53	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/28/17 03:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	4.2	0.48	1.83		03/28/17 03:53	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/28/17 03:53	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/28/17 03:53	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/28/17 03:53	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/28/17 03:53	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/28/17 03:53	622-96-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_5_20170306 **Lab ID: 10381335003** Collected: 03/06/17 13:08 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/28/17 03:53	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.3	0.65	1.83		03/28/17 03:53	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/28/17 03:53	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/28/17 03:53	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/28/17 03:53	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/28/17 03:53	108-87-2	
Methylene Chloride	**6.7**	ug/m3	6.5	0.99	1.83		03/28/17 03:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/28/17 03:53	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/28/17 03:53	1634-04-4	
2-Propanol	**<0.44**	ug/m3	4.6	0.44	1.83		03/28/17 03:53	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/28/17 03:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/28/17 03:53	79-34-5	
Tetrachloroethene	**114**	ug/m3	1.3	0.51	1.83		03/28/17 03:53	127-18-4	
Toluene	**1.7**	ug/m3	1.4	0.28	1.83		03/28/17 03:53	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/28/17 03:53	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/28/17 03:53	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/28/17 03:53	79-00-5	
Trichloroethene	**184**	ug/m3	1.0	0.51	1.83		03/28/17 03:53	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.1	0.24	1.83		03/28/17 03:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.5J**	ug/m3	2.9	0.55	1.83		03/28/17 03:53	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/28/17 03:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/28/17 03:53	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/28/17 03:53	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/28/17 03:53	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/28/17 03:53	95-47-6	

Sample: VP-107_13_20170306 **Lab ID: 10381335004** Collected: 03/06/17 13:43 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**86.2**	ug/m3	4.2	1.5	1.75		03/28/17 17:33	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/28/17 17:33	107-05-1	
Benzene	**0.31J**	ug/m3	0.57	0.21	1.75		03/28/17 17:33	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/28/17 17:33	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/28/17 17:33	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/28/17 17:33	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/28/17 17:33	106-99-0	
2-Butanone (MEK)	**6.6**	ug/m3	5.2	0.40	1.75		03/28/17 17:33	78-93-3	
Carbon disulfide	**0.62J**	ug/m3	1.1	0.18	1.75		03/28/17 17:33	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/28/17 17:33	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/28/17 17:33	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/28/17 17:33	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/28/17 17:33	75-00-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_13_20170306 **Lab ID: 10381335004** Collected: 03/06/17 13:43 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Chloroform	**2.3**	ug/m3	0.87	0.33	1.75		03/28/17 17:33	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/28/17 17:33	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 17:33	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/28/17 17:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/28/17 17:33	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/28/17 17:33	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/28/17 17:33	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/28/17 17:33	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/28/17 17:33	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/28/17 17:33	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.8	0.84	1.75		03/28/17 17:33	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/28/17 17:33	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/28/17 17:33	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 17:33	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.4	0.43	1.75		03/28/17 17:33	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/28/17 17:33	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/28/17 17:33	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/28/17 17:33	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	4.0	0.46	1.75		03/28/17 17:33	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/28/17 17:33	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 17:33	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/28/17 17:33	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/28/17 17:33	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/28/17 17:33	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/28/17 17:33	87-68-3	
n-Hexane	**2.4**	ug/m3	1.3	0.62	1.75		03/28/17 17:33	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/28/17 17:33	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/28/17 17:33	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/28/17 17:33	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 17:33	108-87-2	
Methylene Chloride	**9.3**	ug/m3	6.2	0.95	1.75		03/28/17 17:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/28/17 17:33	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/28/17 17:33	1634-04-4	
2-Propanol	**3.6J**	ug/m3	4.4	0.42	1.75		03/28/17 17:33	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/28/17 17:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/28/17 17:33	79-34-5	
Tetrachloroethene	**<0.49**	ug/m3	1.2	0.49	1.75		03/28/17 17:33	127-18-4	
Toluene	**3.6**	ug/m3	1.3	0.27	1.75		03/28/17 17:33	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/28/17 17:33	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/28/17 17:33	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/28/17 17:33	79-00-5	
Trichloroethene	**53.0**	ug/m3	0.96	0.48	1.75		03/28/17 17:33	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	2.0	0.23	1.75		03/28/17 17:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.72J**	ug/m3	2.8	0.53	1.75		03/28/17 17:33	76-13-1	
1,2,4-Trimethylbenzene	**1.1J**	ug/m3	1.7	0.22	1.75		03/28/17 17:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/28/17 17:33	108-67-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_13_20170306 **Lab ID: 10381335004** Collected: 03/06/17 13:43 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/28/17 17:33	75-01-4	
m&p-Xylene	**1.6J**	ug/m3	3.1	1.4	1.75		03/28/17 17:33	179601-23-1	
o-Xylene	**0.84J**	ug/m3	1.5	0.61	1.75		03/28/17 17:33	95-47-6	

Sample: VP-107_20_20170306 **Lab ID: 10381335005** Collected: 03/06/17 13:50 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<67.1**	ug/m3	194	67.1	80.5		03/29/17 04:20	67-64-1	
Allyl chloride	**<18.3**	ug/m3	128	18.3	80.5		03/29/17 04:20	107-05-1	
Benzene	**<9.8**	ug/m3	26.2	9.8	80.5		03/29/17 04:20	71-43-2	
Bromodichloromethane	**<15.6**	ug/m3	109	15.6	80.5		03/29/17 04:20	75-27-4	
Bromoform	**<72.5**	ug/m3	169	72.5	80.5		03/29/17 04:20	75-25-2	
Bromomethane	**<25.0**	ug/m3	63.6	25.0	80.5		03/29/17 04:20	74-83-9	
1,3-Butadiene	**<14.2**	ug/m3	36.2	14.2	80.5		03/29/17 04:20	106-99-0	
2-Butanone (MEK)	**<18.4**	ug/m3	242	18.4	80.5		03/29/17 04:20	78-93-3	
Carbon disulfide	**<8.1**	ug/m3	50.7	8.1	80.5		03/29/17 04:20	75-15-0	
Carbon tetrachloride	**<15.5**	ug/m3	51.5	15.5	80.5		03/29/17 04:20	56-23-5	
Chlorobenzene	**<10.8**	ug/m3	75.7	10.8	80.5		03/29/17 04:20	108-90-7	
Chlorodifluoromethane	**55.3J**	ug/m3	57.9	22.2	80.5		03/29/17 04:20	75-45-6	
Chloroethane	**<15.6**	ug/m3	43.5	15.6	80.5		03/29/17 04:20	75-00-3	
Chloroform	**185**	ug/m3	39.9	15.3	80.5		03/29/17 04:20	67-66-3	
Chloromethane	**<8.7**	ug/m3	33.8	8.7	80.5		03/29/17 04:20	74-87-3	
Chloropentafluoroethane	**<258**	ug/m3	258	258	80.5		03/29/17 04:20	76-15-3	
Cyclohexane	**<25.4**	ug/m3	56.4	25.4	80.5		03/29/17 04:20	110-82-7	
1,2-Dibromo-3-chloropropane	**<395**	ug/m3	395	395	80.5		03/29/17 04:20	96-12-8	
Dibromochloromethane	**<68.9**	ug/m3	139	68.9	80.5		03/29/17 04:20	124-48-1	
1,2-Dibromoethane (EDB)	**<62.3**	ug/m3	126	62.3	80.5		03/29/17 04:20	106-93-4	
1,2-Dichlorobenzene	**<41.2**	ug/m3	98.2	41.2	80.5		03/29/17 04:20	95-50-1	
1,3-Dichlorobenzene	**<42.7**	ug/m3	98.2	42.7	80.5		03/29/17 04:20	541-73-1	
1,4-Dichlorobenzene	**<40.2**	ug/m3	98.2	40.2	80.5		03/29/17 04:20	106-46-7	
Dichlorodifluoromethane	**<38.6**	ug/m3	81.3	38.6	80.5		03/29/17 04:20	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/m3	66.0	12.6	80.5		03/29/17 04:20	75-34-3	
1,2-Dichloroethane	**<16.5**	ug/m3	33.0	16.5	80.5		03/29/17 04:20	107-06-2	
1,1-Dichloroethene	**<19.2**	ug/m3	65.2	19.2	80.5		03/29/17 04:20	75-35-4	
cis-1,2-Dichloroethene	**218**	ug/m3	65.2	19.8	80.5		03/29/17 04:20	156-59-2	
trans-1,2-Dichloroethene	**<30.9**	ug/m3	65.2	30.9	80.5		03/29/17 04:20	156-60-5	
1,2-Dichloropropane	**<21.7**	ug/m3	75.7	21.7	80.5		03/29/17 04:20	78-87-5	
cis-1,3-Dichloropropene	**<29.7**	ug/m3	74.1	29.7	80.5		03/29/17 04:20	10061-01-5	
trans-1,3-Dichloropropene	**<20.9**	ug/m3	186	20.9	80.5		03/29/17 04:20	10061-02-6	
Dichlorotetrafluoroethane	**<25.0**	ug/m3	114	25.0	80.5		03/29/17 04:20	76-14-2	
Freon 123	**<256**	ug/m3	256	256	80.5		03/29/17 04:20	306-83-2	
1,4-Dioxane (p-Dioxane)	**<28.3**	ug/m3	295	28.3	80.5		03/29/17 04:20	123-91-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_20_20170306 **Lab ID: 10381335005** Collected: 03/06/17 13:50 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Ethylbenzene	**<34.2**	ug/m3	70.8	34.2	80.5		03/29/17 04:20	100-41-4	
4-Ethyltoluene	**<15.1**	ug/m3	80.5	15.1	80.5		03/29/17 04:20	622-96-8	
Hexachloro-1,3-butadiene	**<52.3**	ug/m3	175	52.3	80.5		03/29/17 04:20	87-68-3	
n-Hexane	**<28.7**	ug/m3	58.0	28.7	80.5		03/29/17 04:20	110-54-3	
2-Hexanone	**<33.0**	ug/m3	335	33.0	80.5		03/29/17 04:20	591-78-6	
Isopropylbenzene (Cumene)	**<11.1**	ug/m3	201	11.1	80.5		03/29/17 04:20	98-82-8	
Methyl acetate	**<124**	ug/m3	124	124	80.5		03/29/17 04:20	79-20-9	
Methylcyclohexane	**<19.5**	ug/m3	65.7	19.5	80.5		03/29/17 04:20	108-87-2	
Methylene Chloride	**<43.6**	ug/m3	284	43.6	80.5		03/29/17 04:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<17.5**	ug/m3	335	17.5	80.5		03/29/17 04:20	108-10-1	
Methyl-tert-butyl ether	**<24.4**	ug/m3	295	24.4	80.5		03/29/17 04:20	1634-04-4	
2-Propanol	**<19.3**	ug/m3	201	19.3	80.5		03/29/17 04:20	67-63-0	
Styrene	**<15.5**	ug/m3	70.0	15.5	80.5		03/29/17 04:20	100-42-5	
1,1,2,2-Tetrachloroethane	**<26.5**	ug/m3	56.2	26.5	80.5		03/29/17 04:20	79-34-5	
Tetrachloroethene	**568**	ug/m3	55.5	22.4	80.5		03/29/17 04:20	127-18-4	
Toluene	**<12.4**	ug/m3	62.0	12.4	80.5		03/29/17 04:20	108-88-3	
1,2,4-Trichlorobenzene	**<73.2**	ug/m3	303	73.2	80.5		03/29/17 04:20	120-82-1	
1,1,1-Trichloroethane	**<19.9**	ug/m3	89.4	19.9	80.5		03/29/17 04:20	71-55-6	
1,1,2-Trichloroethane	**<19.8**	ug/m3	44.3	19.8	80.5		03/29/17 04:20	79-00-5	
Trichloroethene	**55300**	ug/m3	44.3	22.2	80.5		03/29/17 04:20	79-01-6	
Trichloroethene	**307000**	ug/m3	1130	569	2060.8		04/01/17 19:21	79-01-6	A3
Trichlorofluoromethane	**80.5J**	ug/m3	91.8	10.6	80.5		03/29/17 04:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1080**	ug/m3	129	24.2	80.5		03/29/17 04:20	76-13-1	
1,2,4-Trimethylbenzene	**<10.1**	ug/m3	80.4	10.1	80.5		03/29/17 04:20	95-63-6	
1,3,5-Trimethylbenzene	**<14.7**	ug/m3	80.4	14.7	80.5		03/29/17 04:20	108-67-8	
Vinyl chloride	**<15.7**	ug/m3	20.9	15.7	80.5		03/29/17 04:20	75-01-4	
m&p-Xylene	**<63.3**	ug/m3	142	63.3	80.5		03/29/17 04:20	179601-23-1	
o-Xylene	**<28.3**	ug/m3	70.8	28.3	80.5		03/29/17 04:20	95-47-6	

Sample: VP-107_33.5_20170306 **Lab ID: 10381335006** Collected: 03/06/17 13:41 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<26.8**	ug/m3	77.7	26.8	32.2		03/29/17 02:57	67-64-1	
Allyl chloride	**<7.3**	ug/m3	51.2	7.3	32.2		03/29/17 02:57	107-05-1	
Benzene	**<3.9**	ug/m3	10.5	3.9	32.2		03/29/17 02:57	71-43-2	
Bromodichloromethane	**<6.2**	ug/m3	43.8	6.2	32.2		03/29/17 02:57	75-27-4	
Bromoform	**<29.0**	ug/m3	67.7	29.0	32.2		03/29/17 02:57	75-25-2	
Bromomethane	**<10**	ug/m3	25.4	10	32.2		03/29/17 02:57	74-83-9	
1,3-Butadiene	**<5.7**	ug/m3	14.5	5.7	32.2		03/29/17 02:57	106-99-0	
2-Butanone (MEK)	**<7.3**	ug/m3	96.6	7.3	32.2		03/29/17 02:57	78-93-3	
Carbon disulfide	**<3.3**	ug/m3	20.3	3.3	32.2		03/29/17 02:57	75-15-0	
Carbon tetrachloride	**<6.2**	ug/m3	20.6	6.2	32.2		03/29/17 02:57	56-23-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_33.5_20170306 **Lab ID: 10381335006** Collected: 03/06/17 13:41 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Chlorobenzene	**<4.3**	ug/m3	30.3	4.3	32.2		03/29/17 02:57	108-90-7	
Chlorodifluoromethane	**174**	ug/m3	23.2	8.9	32.2		03/29/17 02:57	75-45-6	
Chloroethane	**<6.2**	ug/m3	17.4	6.2	32.2		03/29/17 02:57	75-00-3	
Chloroform	**157**	ug/m3	16.0	6.1	32.2		03/29/17 02:57	67-66-3	
Chloromethane	**<3.5**	ug/m3	13.5	3.5	32.2		03/29/17 02:57	74-87-3	
Chloropentafluoroethane	**<103**	ug/m3	103	103	32.2		03/29/17 02:57	76-15-3	
Cyclohexane	**<10.2**	ug/m3	22.5	10.2	32.2		03/29/17 02:57	110-82-7	
1,2-Dibromo-3-chloropropane	**<158**	ug/m3	158	158	32.2		03/29/17 02:57	96-12-8	
Dibromochloromethane	**<27.6**	ug/m3	55.7	27.6	32.2		03/29/17 02:57	124-48-1	
1,2-Dibromoethane (EDB)	**<24.9**	ug/m3	50.2	24.9	32.2		03/29/17 02:57	106-93-4	
1,2-Dichlorobenzene	**<16.5**	ug/m3	39.3	16.5	32.2		03/29/17 02:57	95-50-1	
1,3-Dichlorobenzene	**<17.1**	ug/m3	39.3	17.1	32.2		03/29/17 02:57	541-73-1	
1,4-Dichlorobenzene	**<16.1**	ug/m3	39.3	16.1	32.2		03/29/17 02:57	106-46-7	
Dichlorodifluoromethane	**<15.5**	ug/m3	32.5	15.5	32.2		03/29/17 02:57	75-71-8	
1,1-Dichloroethane	**<5.1**	ug/m3	26.4	5.1	32.2		03/29/17 02:57	75-34-3	
1,2-Dichloroethane	**<6.6**	ug/m3	13.2	6.6	32.2		03/29/17 02:57	107-06-2	
1,1-Dichloroethene	**25.0J**	ug/m3	26.1	7.7	32.2		03/29/17 02:57	75-35-4	
cis-1,2-Dichloroethene	**605**	ug/m3	26.1	7.9	32.2		03/29/17 02:57	156-59-2	
trans-1,2-Dichloroethene	**51.3**	ug/m3	26.1	12.4	32.2		03/29/17 02:57	156-60-5	
1,2-Dichloropropane	**<8.7**	ug/m3	30.3	8.7	32.2		03/29/17 02:57	78-87-5	
cis-1,3-Dichloropropene	**<11.9**	ug/m3	29.6	11.9	32.2		03/29/17 02:57	10061-01-5	
trans-1,3-Dichloropropene	**<8.4**	ug/m3	74.3	8.4	32.2		03/29/17 02:57	10061-02-6	
Dichlorotetrafluoroethane	**<10**	ug/m3	45.7	10	32.2		03/29/17 02:57	76-14-2	
Freon 123	**<102**	ug/m3	102	102	32.2		03/29/17 02:57	306-83-2	
1,4-Dioxane (p-Dioxane)	**<11.3**	ug/m3	118	11.3	32.2		03/29/17 02:57	123-91-1	
Ethylbenzene	**<13.7**	ug/m3	28.3	13.7	32.2		03/29/17 02:57	100-41-4	
4-Ethyltoluene	**<6.1**	ug/m3	32.2	6.1	32.2		03/29/17 02:57	622-96-8	
Hexachloro-1,3-butadiene	**<20.9**	ug/m3	69.8	20.9	32.2		03/29/17 02:57	87-68-3	
n-Hexane	**<11.5**	ug/m3	23.2	11.5	32.2		03/29/17 02:57	110-54-3	
2-Hexanone	**<13.2**	ug/m3	134	13.2	32.2		03/29/17 02:57	591-78-6	
Isopropylbenzene (Cumene)	**<4.4**	ug/m3	80.5	4.4	32.2		03/29/17 02:57	98-82-8	
Methyl acetate	**<49.6**	ug/m3	49.6	49.6	32.2		03/29/17 02:57	79-20-9	
Methylcyclohexane	**<7.8**	ug/m3	26.3	7.8	32.2		03/29/17 02:57	108-87-2	
Methylene Chloride	**<17.5**	ug/m3	114	17.5	32.2		03/29/17 02:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<7.0**	ug/m3	134	7.0	32.2		03/29/17 02:57	108-10-1	
Methyl-tert-butyl ether	**<9.8**	ug/m3	118	9.8	32.2		03/29/17 02:57	1634-04-4	
2-Propanol	**<7.7**	ug/m3	80.5	7.7	32.2		03/29/17 02:57	67-63-0	
Styrene	**<6.2**	ug/m3	28.0	6.2	32.2		03/29/17 02:57	100-42-5	
1,1,2,2-Tetrachloroethane	**<10.6**	ug/m3	22.5	10.6	32.2		03/29/17 02:57	79-34-5	
Tetrachloroethene	**1360**	ug/m3	22.2	9.0	32.2		03/29/17 02:57	127-18-4	
Toluene	**21.8J**	ug/m3	24.8	5.0	32.2		03/29/17 02:57	108-88-3	
1,2,4-Trichlorobenzene	**<29.3**	ug/m3	121	29.3	32.2		03/29/17 02:57	120-82-1	
1,1,1-Trichloroethane	**<8.0**	ug/m3	35.7	8.0	32.2		03/29/17 02:57	71-55-6	
1,1,2-Trichloroethane	**119**	ug/m3	17.7	7.9	32.2		03/29/17 02:57	79-00-5	
Trichloroethene	**49700**	ug/m3	17.7	8.9	32.2		03/29/17 02:57	79-01-6	
Trichloroethene	**535000**	ug/m3	2270	1140	4121.6		04/01/17 19:50	79-01-6	A3

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_33.5_20170306 **Lab ID: 10381335006** Collected: 03/06/17 13:41 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Trichlorofluoromethane	**85.5**	ug/m3	36.7	4.3	32.2		03/29/17 02:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	**765**	ug/m3	51.5	9.7	32.2		03/29/17 02:57	76-13-1	
1,2,4-Trimethylbenzene	**<4.0**	ug/m3	32.2	4.0	32.2		03/29/17 02:57	95-63-6	
1,3,5-Trimethylbenzene	**<5.9**	ug/m3	32.2	5.9	32.2		03/29/17 02:57	108-67-8	
Vinyl chloride	**<6.3**	ug/m3	8.4	6.3	32.2		03/29/17 02:57	75-01-4	
m&p-Xylene	**<25.3**	ug/m3	57.0	25.3	32.2		03/29/17 02:57	179601-23-1	
o-Xylene	**<11.3**	ug/m3	28.3	11.3	32.2		03/29/17 02:57	95-47-6	

Sample: VP-107_44_20170306 **Lab ID: 10381335007** Collected: 03/06/17 13:22 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<76.2**	ug/m3	221	76.2	91.5		03/31/17 06:30	67-64-1	
Allyl chloride	**<20.8**	ug/m3	145	20.8	91.5		03/31/17 06:30	107-05-1	
Benzene	**<11.2**	ug/m3	29.7	11.2	91.5		03/31/17 06:30	71-43-2	
Bromodichloromethane	**<17.8**	ug/m3	623	17.8	91.5		03/31/17 06:30	75-27-4	
Bromoform	**<82.4**	ug/m3	192	82.4	91.5		03/31/17 06:30	75-25-2	
Bromomethane	**<28.4**	ug/m3	72.3	28.4	91.5		03/31/17 06:30	74-83-9	
1,3-Butadiene	**<16.1**	ug/m3	41.2	16.1	91.5		03/31/17 06:30	106-99-0	
2-Butanone (MEK)	**<20.9**	ug/m3	274	20.9	91.5		03/31/17 06:30	78-93-3	
Carbon disulfide	**<9.2**	ug/m3	57.6	9.2	91.5		03/31/17 06:30	75-15-0	
Carbon tetrachloride	**<17.7**	ug/m3	58.6	17.7	91.5		03/31/17 06:30	56-23-5	
Chlorobenzene	**<12.3**	ug/m3	86.0	12.3	91.5		03/31/17 06:30	108-90-7	
Chlorodifluoromethane	**195**	ug/m3	65.8	25.3	91.5		03/31/17 06:30	75-45-6	
Chloroethane	**<17.8**	ug/m3	49.4	17.8	91.5		03/31/17 06:30	75-00-3	
Chloroform	**161**	ug/m3	45.4	17.4	91.5		03/31/17 06:30	67-66-3	CH,L1
Chloromethane	**<9.9**	ug/m3	38.4	9.9	91.5		03/31/17 06:30	74-87-3	
Chloropentafluoroethane	**<294**	ug/m3	294	294	91.5		03/31/17 06:30	76-15-3	
Cyclohexane	**<28.9**	ug/m3	64.0	28.9	91.5		03/31/17 06:30	110-82-7	
1,2-Dibromo-3-chloropropane	**<449**	ug/m3	449	449	91.5		03/31/17 06:30	96-12-8	
Dibromochloromethane	**<78.3**	ug/m3	158	78.3	91.5		03/31/17 06:30	124-48-1	
1,2-Dibromoethane (EDB)	**<70.8**	ug/m3	143	70.8	91.5		03/31/17 06:30	106-93-4	
1,2-Dichlorobenzene	**<46.8**	ug/m3	112	46.8	91.5		03/31/17 06:30	95-50-1	
1,3-Dichlorobenzene	**<48.5**	ug/m3	112	48.5	91.5		03/31/17 06:30	541-73-1	
1,4-Dichlorobenzene	**<45.7**	ug/m3	280	45.7	91.5		03/31/17 06:30	106-46-7	
Dichlorodifluoromethane	**<43.9**	ug/m3	92.4	43.9	91.5		03/31/17 06:30	75-71-8	
1,1-Dichloroethane	**<14.4**	ug/m3	75.0	14.4	91.5		03/31/17 06:30	75-34-3	
1,2-Dichloroethane	**<18.8**	ug/m3	37.5	18.8	91.5		03/31/17 06:30	107-06-2	
1,1-Dichloroethene	**<21.8**	ug/m3	74.1	21.8	91.5		03/31/17 06:30	75-35-4	
cis-1,2-Dichloroethene	**814**	ug/m3	74.1	22.5	91.5		03/31/17 06:30	156-59-2	CH,L1
cis-1,2-Dichloroethene	**838**	ug/m3	474		585.6		04/04/17 13:10	156-59-2	A3
trans-1,2-Dichloroethene	**<35.1**	ug/m3	74.1	35.1	91.5		03/31/17 06:30	156-60-5	
1,2-Dichloropropane	**<24.7**	ug/m3	86.0	24.7	91.5		03/31/17 06:30	78-87-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_44_20170306 **Lab ID: 10381335007** Collected: 03/06/17 13:22 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
cis-1,3-Dichloropropene	**<33.8**	ug/m3	84.2	33.8	91.5		03/31/17 06:30	10061-01-5	
trans-1,3-Dichloropropene	**<23.8**	ug/m3	84.2	23.8	91.5		03/31/17 06:30	10061-02-6	
Dichlorotetrafluoroethane	**<28.4**	ug/m3	130	28.4	91.5		03/31/17 06:30	76-14-2	
Freon 123	**<291**	ug/m3	291	291	91.5		03/31/17 06:30	306-83-2	
1,4-Dioxane (p-Dioxane)	**<32.2**	ug/m3	335	32.2	91.5		03/31/17 06:30	123-91-1	
Ethylbenzene	**<38.9**	ug/m3	80.5	38.9	91.5		03/31/17 06:30	100-41-4	
4-Ethyltoluene	**<17.2**	ug/m3	91.5	17.2	91.5		03/31/17 06:30	622-96-8	
Hexachloro-1,3-butadiene	**<59.5**	ug/m3	198	59.5	91.5		03/31/17 06:30	87-68-3	
n-Hexane	**<32.7**	ug/m3	65.9	32.7	91.5		03/31/17 06:30	110-54-3	
2-Hexanone	**<37.5**	ug/m3	381	37.5	91.5		03/31/17 06:30	591-78-6	
Isopropylbenzene (Cumene)	**<12.6**	ug/m3	229	12.6	91.5		03/31/17 06:30	98-82-8	
Methyl acetate	**<141**	ug/m3	141	141	91.5		03/31/17 06:30	79-20-9	
Methylcyclohexane	**<22.1**	ug/m3	74.7	22.1	91.5		03/31/17 06:30	108-87-2	
Methylene Chloride	**<49.6**	ug/m3	323	49.6	91.5		03/31/17 06:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<19.9**	ug/m3	381	19.9	91.5		03/31/17 06:30	108-10-1	
Methyl-tert-butyl ether	**<27.7**	ug/m3	335	27.7	91.5		03/31/17 06:30	1634-04-4	
2-Propanol	**<22.0**	ug/m3	229	22.0	91.5		03/31/17 06:30	67-63-0	
Styrene	**<17.7**	ug/m3	79.6	17.7	91.5		03/31/17 06:30	100-42-5	
1,1,2,2-Tetrachloroethane	**<30.1**	ug/m3	63.9	30.1	91.5		03/31/17 06:30	79-34-5	
Tetrachloroethene	**1530**	ug/m3	63.0	25.4	91.5		03/31/17 06:30	127-18-4	
Toluene	**<14.1**	ug/m3	70.5	14.1	91.5		03/31/17 06:30	108-88-3	
1,2,4-Trichlorobenzene	**<83.2**	ug/m3	345	83.2	91.5		03/31/17 06:30	120-82-1	
1,1,1-Trichloroethane	**<22.6**	ug/m3	102	22.6	91.5		03/31/17 06:30	71-55-6	
1,1,2-Trichloroethane	**<22.5**	ug/m3	50.3	22.5	91.5		03/31/17 06:30	79-00-5	
Trichloroethene	**43900**	ug/m3	50.3	25.3	91.5		03/31/17 06:30	79-01-6	
Trichloroethene	**63600**	ug/m3	161		292.8		04/04/17 03:31	79-01-6	
Trichloroethene	**71000**	ug/m3	322		585.6		04/04/17 13:10	79-01-6	A3
Trichlorofluoromethane	**<12.1**	ug/m3	104	12.1	91.5		03/31/17 06:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	**266J**	ug/m3	468		292.8		04/04/17 03:31	76-13-1	A3
1,2,4-Trimethylbenzene	**<11.4**	ug/m3	91.4	11.4	91.5		03/31/17 06:30	95-63-6	
1,3,5-Trimethylbenzene	**<16.7**	ug/m3	91.4	16.7	91.5		03/31/17 06:30	108-67-8	
Vinyl chloride	**<17.8**	ug/m3	23.8	17.8	91.5		03/31/17 06:30	75-01-4	
m&p-Xylene	**<71.9**	ug/m3	162	71.9	91.5		03/31/17 06:30	179601-23-1	
o-Xylene	**<32.1**	ug/m3	80.5	32.1	91.5		03/31/17 06:30	95-47-6	

Sample: VP-107_60_20170306 **Lab ID: 10381335008** Collected: 03/06/17 13:38 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<28.0**	ug/m3	81.1	28.0	33.6		03/29/17 03:25	67-64-1	
Allyl chloride	**<7.6**	ug/m3	53.4	7.6	33.6		03/29/17 03:25	107-05-1	
Benzene	**<4.1**	ug/m3	10.9	4.1	33.6		03/29/17 03:25	71-43-2	
Bromodichloromethane	**<6.5**	ug/m3	45.7	6.5	33.6		03/29/17 03:25	75-27-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_60_20170306 **Lab ID: 10381335008** Collected: 03/06/17 13:38 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Bromoform	**<30.3**	ug/m3	70.6	30.3	33.6		03/29/17 03:25	75-25-2	
Bromomethane	**<10.4**	ug/m3	26.5	10.4	33.6		03/29/17 03:25	74-83-9	
1,3-Butadiene	**<5.9**	ug/m3	15.1	5.9	33.6		03/29/17 03:25	106-99-0	
2-Butanone (MEK)	**<7.7**	ug/m3	101	7.7	33.6		03/29/17 03:25	78-93-3	
Carbon disulfide	**47.4**	ug/m3	21.2	3.4	33.6		03/29/17 03:25	75-15-0	
Carbon tetrachloride	**<6.5**	ug/m3	21.5	6.5	33.6		03/29/17 03:25	56-23-5	
Chlorobenzene	**<4.5**	ug/m3	31.6	4.5	33.6		03/29/17 03:25	108-90-7	
Chlorodifluoromethane	**238**	ug/m3	24.2	9.3	33.6		03/29/17 03:25	75-45-6	
Chloroethane	**<6.5**	ug/m3	18.1	6.5	33.6		03/29/17 03:25	75-00-3	
Chloroform	**81.9**	ug/m3	16.7	6.4	33.6		03/29/17 03:25	67-66-3	
Chloromethane	**<3.6**	ug/m3	14.1	3.6	33.6		03/29/17 03:25	74-87-3	
Chloropentafluoroethane	**<108**	ug/m3	108	108	33.6		03/29/17 03:25	76-15-3	
Cyclohexane	**<10.6**	ug/m3	23.5	10.6	33.6		03/29/17 03:25	110-82-7	
1,2-Dibromo-3-chloropropane	**<165**	ug/m3	165	165	33.6		03/29/17 03:25	96-12-8	
Dibromochloromethane	**<28.8**	ug/m3	58.1	28.8	33.6		03/29/17 03:25	124-48-1	
1,2-Dibromoethane (EDB)	**<26.0**	ug/m3	52.4	26.0	33.6		03/29/17 03:25	106-93-4	
1,2-Dichlorobenzene	**<17.2**	ug/m3	41.0	17.2	33.6		03/29/17 03:25	95-50-1	
1,3-Dichlorobenzene	**<17.8**	ug/m3	41.0	17.8	33.6		03/29/17 03:25	541-73-1	
1,4-Dichlorobenzene	**<16.8**	ug/m3	41.0	16.8	33.6		03/29/17 03:25	106-46-7	
Dichlorodifluoromethane	**<16.1**	ug/m3	33.9	16.1	33.6		03/29/17 03:25	75-71-8	
1,1-Dichloroethane	**<5.3**	ug/m3	27.6	5.3	33.6		03/29/17 03:25	75-34-3	
1,2-Dichloroethane	**<6.9**	ug/m3	13.8	6.9	33.6		03/29/17 03:25	107-06-2	
1,1-Dichloroethene	**<8.0**	ug/m3	27.2	8.0	33.6		03/29/17 03:25	75-35-4	
cis-1,2-Dichloroethene	**446**	ug/m3	27.2	8.3	33.6		03/29/17 03:25	156-59-2	
trans-1,2-Dichloroethene	**<12.9**	ug/m3	27.2	12.9	33.6		03/29/17 03:25	156-60-5	
1,2-Dichloropropane	**<9.1**	ug/m3	31.6	9.1	33.6		03/29/17 03:25	78-87-5	
cis-1,3-Dichloropropene	**<12.4**	ug/m3	30.9	12.4	33.6		03/29/17 03:25	10061-01-5	
trans-1,3-Dichloropropene	**<8.7**	ug/m3	77.5	8.7	33.6		03/29/17 03:25	10061-02-6	
Dichlorotetrafluoroethane	**<10.4**	ug/m3	47.7	10.4	33.6		03/29/17 03:25	76-14-2	
Freon 123	**<107**	ug/m3	107	107	33.6		03/29/17 03:25	306-83-2	
1,4-Dioxane (p-Dioxane)	**<11.8**	ug/m3	123	11.8	33.6		03/29/17 03:25	123-91-1	
Ethylbenzene	**<14.3**	ug/m3	29.6	14.3	33.6		03/29/17 03:25	100-41-4	
4-Ethyltoluene	**<6.3**	ug/m3	33.6	6.3	33.6		03/29/17 03:25	622-96-8	
Hexachloro-1,3-butadiene	**<21.8**	ug/m3	72.8	21.8	33.6		03/29/17 03:25	87-68-3	
n-Hexane	**<12.0**	ug/m3	24.2	12.0	33.6		03/29/17 03:25	110-54-3	
2-Hexanone	**<13.8**	ug/m3	140	13.8	33.6		03/29/17 03:25	591-78-6	
Isopropylbenzene (Cumene)	**<4.6**	ug/m3	84.0	4.6	33.6		03/29/17 03:25	98-82-8	
Methyl acetate	**<51.7**	ug/m3	51.7	51.7	33.6		03/29/17 03:25	79-20-9	
Methylcyclohexane	**<8.1**	ug/m3	27.4	8.1	33.6		03/29/17 03:25	108-87-2	
Methylene Chloride	**<18.2**	ug/m3	119	18.2	33.6		03/29/17 03:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<7.3**	ug/m3	140	7.3	33.6		03/29/17 03:25	108-10-1	
Methyl-tert-butyl ether	**<10.2**	ug/m3	123	10.2	33.6		03/29/17 03:25	1634-04-4	
2-Propanol	**<8.1**	ug/m3	84.0	8.1	33.6		03/29/17 03:25	67-63-0	
Styrene	**<6.5**	ug/m3	29.2	6.5	33.6		03/29/17 03:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<11.1**	ug/m3	23.5	11.1	33.6		03/29/17 03:25	79-34-5	
Tetrachloroethene	**1390**	ug/m3	23.2	9.3	33.6		03/29/17 03:25	127-18-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_60_20170306 **Lab ID: 10381335008** Collected: 03/06/17 13:38 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Toluene	**<5.2**	ug/m3	25.9	5.2	33.6		03/29/17 03:25	108-88-3	
1,2,4-Trichlorobenzene	**<30.5**	ug/m3	127	30.5	33.6		03/29/17 03:25	120-82-1	
1,1,1-Trichloroethane	**<8.3**	ug/m3	37.3	8.3	33.6		03/29/17 03:25	71-55-6	
1,1,2-Trichloroethane	**<8.3**	ug/m3	18.5	8.3	33.6		03/29/17 03:25	79-00-5	
Trichloroethene	**14000**	ug/m3	18.5	9.3	33.6		03/29/17 03:25	79-01-6	
Trichloroethene	**20400**	ug/m3	148	74.2	268.8		03/31/17 11:19	79-01-6	A3
Trichlorofluoromethane	**25.6J**	ug/m3	38.3	4.4	33.6		03/29/17 03:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	**130**	ug/m3	53.8	10.1	33.6		03/29/17 03:25	76-13-1	
1,2,4-Trimethylbenzene	**<4.2**	ug/m3	33.6	4.2	33.6		03/29/17 03:25	95-63-6	
1,3,5-Trimethylbenzene	**<6.1**	ug/m3	33.6	6.1	33.6		03/29/17 03:25	108-67-8	
Vinyl chloride	**<6.6**	ug/m3	8.7	6.6	33.6		03/29/17 03:25	75-01-4	
m&p-Xylene	**<26.4**	ug/m3	59.5	26.4	33.6		03/29/17 03:25	179601-23-1	
o-Xylene	**<11.8**	ug/m3	29.6	11.8	33.6		03/29/17 03:25	95-47-6	

Sample: VP-107_74_20170306 **Lab ID: 10381335009** Collected: 03/06/17 13:12 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<30.5**	ug/m3	88.4	30.5	36.6		03/29/17 03:53	67-64-1	
Allyl chloride	**<8.3**	ug/m3	58.2	8.3	36.6		03/29/17 03:53	107-05-1	
Benzene	**<4.5**	ug/m3	11.9	4.5	36.6		03/29/17 03:53	71-43-2	
Bromodichloromethane	**<7.1**	ug/m3	49.8	7.1	36.6		03/29/17 03:53	75-27-4	
Bromoform	**<33.0**	ug/m3	76.9	33.0	36.6		03/29/17 03:53	75-25-2	
Bromomethane	**<11.3**	ug/m3	28.9	11.3	36.6		03/29/17 03:53	74-83-9	
1,3-Butadiene	**<6.4**	ug/m3	16.5	6.4	36.6		03/29/17 03:53	106-99-0	
2-Butanone (MEK)	**<8.3**	ug/m3	110	8.3	36.6		03/29/17 03:53	78-93-3	
Carbon disulfide	**<3.7**	ug/m3	23.1	3.7	36.6		03/29/17 03:53	75-15-0	
Carbon tetrachloride	**<7.1**	ug/m3	23.4	7.1	36.6		03/29/17 03:53	56-23-5	
Chlorobenzene	**<4.9**	ug/m3	34.4	4.9	36.6		03/29/17 03:53	108-90-7	
Chlorodifluoromethane	**181**	ug/m3	26.3	10.1	36.6		03/29/17 03:53	75-45-6	
Chloroethane	**<7.1**	ug/m3	19.8	7.1	36.6		03/29/17 03:53	75-00-3	
Chloroform	**69.1**	ug/m3	18.2	7.0	36.6		03/29/17 03:53	67-66-3	
Chloromethane	**<4.0**	ug/m3	15.4	4.0	36.6		03/29/17 03:53	74-87-3	
Chloropentafluoroethane	**<117**	ug/m3	117	117	36.6		03/29/17 03:53	76-15-3	
Cyclohexane	**<11.6**	ug/m3	25.6	11.6	36.6		03/29/17 03:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<180**	ug/m3	180	180	36.6		03/29/17 03:53	96-12-8	
Dibromochloromethane	**<31.3**	ug/m3	63.3	31.3	36.6		03/29/17 03:53	124-48-1	
1,2-Dibromoethane (EDB)	**<28.3**	ug/m3	57.1	28.3	36.6		03/29/17 03:53	106-93-4	
1,2-Dichlorobenzene	**<18.7**	ug/m3	44.7	18.7	36.6		03/29/17 03:53	95-50-1	
1,3-Dichlorobenzene	**<19.4**	ug/m3	44.7	19.4	36.6		03/29/17 03:53	541-73-1	
1,4-Dichlorobenzene	**<18.3**	ug/m3	44.7	18.3	36.6		03/29/17 03:53	106-46-7	
Dichlorodifluoromethane	**<17.6**	ug/m3	37.0	17.6	36.6		03/29/17 03:53	75-71-8	
1,1-Dichloroethane	**<5.7**	ug/m3	30.0	5.7	36.6		03/29/17 03:53	75-34-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-107_74_20170306 **Lab ID: 10381335009** Collected: 03/06/17 13:12 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichloroethane	**<7.5**	ug/m3	15.0	7.5	36.6		03/29/17 03:53	107-06-2	
1,1-Dichloroethene	**<8.7**	ug/m3	29.6	8.7	36.6		03/29/17 03:53	75-35-4	
cis-1,2-Dichloroethene	**302**	ug/m3	29.6	9.0	36.6		03/29/17 03:53	156-59-2	
trans-1,2-Dichloroethene	**<14.1**	ug/m3	29.6	14.1	36.6		03/29/17 03:53	156-60-5	
1,2-Dichloropropane	**<9.9**	ug/m3	34.4	9.9	36.6		03/29/17 03:53	78-87-5	
cis-1,3-Dichloropropene	**<13.5**	ug/m3	33.7	13.5	36.6		03/29/17 03:53	10061-01-5	
trans-1,3-Dichloropropene	**<9.5**	ug/m3	84.4	9.5	36.6		03/29/17 03:53	10061-02-6	
Dichlorotetrafluoroethane	**<11.3**	ug/m3	52.0	11.3	36.6		03/29/17 03:53	76-14-2	
Freon 123	**<116**	ug/m3	116	116	36.6		03/29/17 03:53	306-83-2	
1,4-Dioxane (p-Dioxane)	**<12.9**	ug/m3	134	12.9	36.6		03/29/17 03:53	123-91-1	
Ethylbenzene	**<15.6**	ug/m3	32.2	15.6	36.6		03/29/17 03:53	100-41-4	
4-Ethyltoluene	**<6.9**	ug/m3	36.6	6.9	36.6		03/29/17 03:53	622-96-8	
Hexachloro-1,3-butadiene	**<23.8**	ug/m3	79.3	23.8	36.6		03/29/17 03:53	87-68-3	
n-Hexane	**<13.1**	ug/m3	26.4	13.1	36.6		03/29/17 03:53	110-54-3	
2-Hexanone	**<15.0**	ug/m3	152	15.0	36.6		03/29/17 03:53	591-78-6	
Isopropylbenzene (Cumene)	**<5.1**	ug/m3	91.5	5.1	36.6		03/29/17 03:53	98-82-8	
Methyl acetate	**<56.4**	ug/m3	56.4	56.4	36.6		03/29/17 03:53	79-20-9	
Methylcyclohexane	**<8.9**	ug/m3	29.9	8.9	36.6		03/29/17 03:53	108-87-2	
Methylene Chloride	**<19.8**	ug/m3	129	19.8	36.6		03/29/17 03:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<7.9**	ug/m3	152	7.9	36.6		03/29/17 03:53	108-10-1	
Methyl-tert-butyl ether	**<11.1**	ug/m3	134	11.1	36.6		03/29/17 03:53	1634-04-4	
2-Propanol	**<8.8**	ug/m3	91.5	8.8	36.6		03/29/17 03:53	67-63-0	
Styrene	**<7.1**	ug/m3	31.8	7.1	36.6		03/29/17 03:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<12.0**	ug/m3	25.5	12.0	36.6		03/29/17 03:53	79-34-5	
Tetrachloroethene	**1090**	ug/m3	25.2	10.2	36.6		03/29/17 03:53	127-18-4	
Toluene	**22.0J**	ug/m3	28.2	5.6	36.6		03/29/17 03:53	108-88-3	
1,2,4-Trichlorobenzene	**<33.3**	ug/m3	138	33.3	36.6		03/29/17 03:53	120-82-1	
1,1,1-Trichloroethane	**<9.0**	ug/m3	40.6	9.0	36.6		03/29/17 03:53	71-55-6	
1,1,2-Trichloroethane	**<9.0**	ug/m3	20.1	9.0	36.6		03/29/17 03:53	79-00-5	
Trichloroethene	**5840**	ug/m3	20.1	10.1	36.6		03/29/17 03:53	79-01-6	
Trichlorofluoromethane	**<4.8**	ug/m3	41.7	4.8	36.6		03/29/17 03:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**123**	ug/m3	58.6	11.0	36.6		03/29/17 03:53	76-13-1	
1,2,4-Trimethylbenzene	**<4.6**	ug/m3	36.6	4.6	36.6		03/29/17 03:53	95-63-6	
1,3,5-Trimethylbenzene	**<6.7**	ug/m3	36.6	6.7	36.6		03/29/17 03:53	108-67-8	
Vinyl chloride	**<7.1**	ug/m3	9.5	7.1	36.6		03/29/17 03:53	75-01-4	
m&p-Xylene	**<28.8**	ug/m3	64.8	28.8	36.6		03/29/17 03:53	179601-23-1	
o-Xylene	**<12.8**	ug/m3	32.2	12.8	36.6		03/29/17 03:53	95-47-6	

Sample: VP-3_5_20170307 **Lab ID: 10381335010** Collected: 03/07/17 12:01 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**24.3**	ug/m3	4.1	1.4	1.68		03/28/17 18:36	67-64-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_5_20170307 **Lab ID: 10381335010** Collected: 03/07/17 12:01 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/28/17 18:36	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/28/17 18:36	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/28/17 18:36	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/28/17 18:36	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/28/17 18:36	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/28/17 18:36	106-99-0	
2-Butanone (MEK)	**3.9J**	ug/m3	5.0	0.38	1.68		03/28/17 18:36	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/28/17 18:36	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/28/17 18:36	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/28/17 18:36	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/28/17 18:36	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/28/17 18:36	75-00-3	
Chloroform	**1.7**	ug/m3	0.83	0.32	1.68		03/28/17 18:36	67-66-3	
Chloromethane	**0.60J**	ug/m3	0.71	0.18	1.68		03/28/17 18:36	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/28/17 18:36	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/28/17 18:36	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/28/17 18:36	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/28/17 18:36	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/28/17 18:36	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/28/17 18:36	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/28/17 18:36	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/28/17 18:36	106-46-7	
Dichlorodifluoromethane	**2.6**	ug/m3	1.7	0.81	1.68		03/28/17 18:36	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/28/17 18:36	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/28/17 18:36	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/28/17 18:36	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 18:36	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/28/17 18:36	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/28/17 18:36	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/28/17 18:36	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	3.9	0.44	1.68		03/28/17 18:36	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/28/17 18:36	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/28/17 18:36	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/28/17 18:36	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/28/17 18:36	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/28/17 18:36	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/28/17 18:36	87-68-3	
n-Hexane	**2.9**	ug/m3	1.2	0.60	1.68		03/28/17 18:36	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/28/17 18:36	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/28/17 18:36	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/28/17 18:36	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 18:36	108-87-2	
Methylene Chloride	**30.8**	ug/m3	5.9	0.91	1.68		03/28/17 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/28/17 18:36	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/28/17 18:36	1634-04-4	
2-Propanol	**2.4J**	ug/m3	4.2	0.40	1.68		03/28/17 18:36	67-63-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_5_20170307 **Lab ID: 10381335010** Collected: 03/07/17 12:01 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/28/17 18:36	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/28/17 18:36	79-34-5	
Tetrachloroethene	**13.8**	ug/m3	1.2	0.47	1.68		03/28/17 18:36	127-18-4	
Toluene	**0.97J**	ug/m3	1.3	0.26	1.68		03/28/17 18:36	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/28/17 18:36	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/28/17 18:36	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/28/17 18:36	79-00-5	
Trichloroethene	**1.7**	ug/m3	0.92	0.46	1.68		03/28/17 18:36	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.9	0.22	1.68		03/28/17 18:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.1J**	ug/m3	2.7	0.51	1.68		03/28/17 18:36	76-13-1	
1,2,4-Trimethylbenzene	**<0.21**	ug/m3	1.7	0.21	1.68		03/28/17 18:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/28/17 18:36	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/28/17 18:36	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/28/17 18:36	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/28/17 18:36	95-47-6	

Sample: VP-3_10_20170307 **Lab ID: 10381335011** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.6**	ug/m3	6.2	2.1	2.57		03/31/17 05:31	67-64-1	CH,L1
Allyl chloride	**<0.58**	ug/m3	4.1	0.58	2.57		03/31/17 05:31	107-05-1	
Benzene	**<0.31**	ug/m3	0.84	0.31	2.57		03/31/17 05:31	71-43-2	
Bromodichloromethane	**<0.50**	ug/m3	17.5	0.50	2.57		03/31/17 05:31	75-27-4	
Bromoform	**<2.3**	ug/m3	5.4	2.3	2.57		03/31/17 05:31	75-25-2	
Bromomethane	**<0.80**	ug/m3	2.0	0.80	2.57		03/31/17 05:31	74-83-9	
1,3-Butadiene	**<0.45**	ug/m3	1.2	0.45	2.57		03/31/17 05:31	106-99-0	
2-Butanone (MEK)	**<0.59**	ug/m3	7.7	0.59	2.57		03/31/17 05:31	78-93-3	
Carbon disulfide	**<0.26**	ug/m3	1.6	0.26	2.57		03/31/17 05:31	75-15-0	
Carbon tetrachloride	**<0.50**	ug/m3	1.6	0.50	2.57		03/31/17 05:31	56-23-5	
Chlorobenzene	**<0.34**	ug/m3	2.4	0.34	2.57		03/31/17 05:31	108-90-7	
Chlorodifluoromethane	**<0.71**	ug/m3	1.8	0.71	2.57		03/31/17 05:31	75-45-6	
Chloroethane	**<0.50**	ug/m3	1.4	0.50	2.57		03/31/17 05:31	75-00-3	
Chloroform	**0.89J**	ug/m3	1.3	0.49	2.57		03/31/17 05:31	67-66-3	CH,L1
Chloromethane	**<0.28**	ug/m3	1.1	0.28	2.57		03/31/17 05:31	74-87-3	
Chloropentafluoroethane	**<8.2**	ug/m3	8.2	8.2	2.57		03/31/17 05:31	76-15-3	
Cyclohexane	**<0.81**	ug/m3	1.8	0.81	2.57		03/31/17 05:31	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.6**	ug/m3	12.6	12.6	2.57		03/31/17 05:31	96-12-8	
Dibromochloromethane	**<2.2**	ug/m3	4.4	2.2	2.57		03/31/17 05:31	124-48-1	
1,2-Dibromoethane (EDB)	**<2.0**	ug/m3	4.0	2.0	2.57		03/31/17 05:31	106-93-4	
1,2-Dichlorobenzene	**<1.3**	ug/m3	3.1	1.3	2.57		03/31/17 05:31	95-50-1	
1,3-Dichlorobenzene	**<1.4**	ug/m3	3.1	1.4	2.57		03/31/17 05:31	541-73-1	
1,4-Dichlorobenzene	**<1.3**	ug/m3	7.9	1.3	2.57		03/31/17 05:31	106-46-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_10_20170307 **Lab ID: 10381335011** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Dichlorodifluoromethane	**2.7**	ug/m3	2.6	1.2	2.57		03/31/17 05:31	75-71-8	
1,1-Dichloroethane	**<0.40**	ug/m3	2.1	0.40	2.57		03/31/17 05:31	75-34-3	
1,2-Dichloroethane	**<0.53**	ug/m3	1.1	0.53	2.57		03/31/17 05:31	107-06-2	
1,1-Dichloroethene	**<0.61**	ug/m3	2.1	0.61	2.57		03/31/17 05:31	75-35-4	
cis-1,2-Dichloroethene	**<0.63**	ug/m3	2.1	0.63	2.57		03/31/17 05:31	156-59-2	
trans-1,2-Dichloroethene	**<0.99**	ug/m3	2.1	0.99	2.57		03/31/17 05:31	156-60-5	
1,2-Dichloropropane	**<0.69**	ug/m3	2.4	0.69	2.57		03/31/17 05:31	78-87-5	
cis-1,3-Dichloropropene	**<0.95**	ug/m3	2.4	0.95	2.57		03/31/17 05:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.67**	ug/m3	2.4	0.67	2.57		03/31/17 05:31	10061-02-6	
Dichlorotetrafluoroethane	**<0.80**	ug/m3	3.6	0.80	2.57		03/31/17 05:31	76-14-2	
Freon 123	**<8.2**	ug/m3	8.2	8.2	2.57		03/31/17 05:31	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.90**	ug/m3	9.4	0.90	2.57		03/31/17 05:31	123-91-1	
Ethylbenzene	**<1.1**	ug/m3	2.3	1.1	2.57		03/31/17 05:31	100-41-4	
4-Ethyltoluene	**<0.48**	ug/m3	2.6	0.48	2.57		03/31/17 05:31	622-96-8	
Hexachloro-1,3-butadiene	**<1.7**	ug/m3	5.6	1.7	2.57		03/31/17 05:31	87-68-3	
n-Hexane	**1.6J**	ug/m3	1.9	0.92	2.57		03/31/17 05:31	110-54-3	CH,L1
2-Hexanone	**<1.1**	ug/m3	10.7	1.1	2.57		03/31/17 05:31	591-78-6	
Isopropylbenzene (Cumene)	**<0.35**	ug/m3	6.4	0.35	2.57		03/31/17 05:31	98-82-8	
Methyl acetate	**<4.0**	ug/m3	4.0	4.0	2.57		03/31/17 05:31	79-20-9	
Methylcyclohexane	**<0.62**	ug/m3	2.1	0.62	2.57		03/31/17 05:31	108-87-2	
Methylene Chloride	**9.1**	ug/m3	9.1	1.4	2.57		03/31/17 05:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.56**	ug/m3	10.7	0.56	2.57		03/31/17 05:31	108-10-1	
Methyl-tert-butyl ether	**<0.78**	ug/m3	9.4	0.78	2.57		03/31/17 05:31	1634-04-4	
2-Propanol	**<0.62**	ug/m3	6.4	0.62	2.57		03/31/17 05:31	67-63-0	
Styrene	**<0.50**	ug/m3	2.2	0.50	2.57		03/31/17 05:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.85**	ug/m3	1.8	0.85	2.57		03/31/17 05:31	79-34-5	
Tetrachloroethene	**35.9**	ug/m3	1.8	0.71	2.57		03/31/17 05:31	127-18-4	
Toluene	**<0.40**	ug/m3	2.0	0.40	2.57		03/31/17 05:31	108-88-3	
1,2,4-Trichlorobenzene	**<2.3**	ug/m3	9.7	2.3	2.57		03/31/17 05:31	120-82-1	
1,1,1-Trichloroethane	**<0.63**	ug/m3	2.9	0.63	2.57		03/31/17 05:31	71-55-6	
1,1,2-Trichloroethane	**<0.63**	ug/m3	1.4	0.63	2.57		03/31/17 05:31	79-00-5	
Trichloroethene	**9.7**	ug/m3	1.4	0.71	2.57		03/31/17 05:31	79-01-6	
Trichlorofluoromethane	**1.9J**	ug/m3	2.9	0.34	2.57		03/31/17 05:31	75-69-4	CH,L1
1,1,2-Trichlorotrifluoroethane	**2.4J**	ug/m3	4.1	0.77	2.57		03/31/17 05:31	76-13-1	CH,L1
1,2,4-Trimethylbenzene	**<0.32**	ug/m3	2.6	0.32	2.57		03/31/17 05:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.47**	ug/m3	2.6	0.47	2.57		03/31/17 05:31	108-67-8	
Vinyl chloride	**<0.50**	ug/m3	0.67	0.50	2.57		03/31/17 05:31	75-01-4	
m&p-Xylene	**<2.0**	ug/m3	4.5	2.0	2.57		03/31/17 05:31	179601-23-1	
o-Xylene	**<0.90**	ug/m3	2.3	0.90	2.57		03/31/17 05:31	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_20_20170307 **Lab ID: 10381335012** Collected: 03/07/17 13:51 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.2**	ug/m3	4.2	1.5	1.75		03/28/17 21:46	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/28/17 21:46	107-05-1	
Benzene	**<0.21**	ug/m3	0.57	0.21	1.75		03/28/17 21:46	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/28/17 21:46	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/28/17 21:46	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/28/17 21:46	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/28/17 21:46	106-99-0	
2-Butanone (MEK)	**3.0J**	ug/m3	5.2	0.40	1.75		03/28/17 21:46	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/28/17 21:46	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/28/17 21:46	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/28/17 21:46	108-90-7	
Chlorodifluoromethane	**1.3J**	ug/m3	1.3	0.48	1.75		03/28/17 21:46	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/28/17 21:46	75-00-3	
Chloroform	**2.5**	ug/m3	0.87	0.33	1.75		03/28/17 21:46	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/28/17 21:46	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 21:46	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/28/17 21:46	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/28/17 21:46	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/28/17 21:46	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/28/17 21:46	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/28/17 21:46	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/28/17 21:46	541-73-1	
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/28/17 21:46	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.8	0.84	1.75		03/28/17 21:46	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/28/17 21:46	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/28/17 21:46	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 21:46	75-35-4	
cis-1,2-Dichloroethene	**8.9**	ug/m3	1.4	0.43	1.75		03/28/17 21:46	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/28/17 21:46	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/28/17 21:46	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/28/17 21:46	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	4.0	0.46	1.75		03/28/17 21:46	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/28/17 21:46	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 21:46	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/28/17 21:46	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/28/17 21:46	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/28/17 21:46	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/28/17 21:46	87-68-3	
n-Hexane	**<0.62**	ug/m3	1.3	0.62	1.75		03/28/17 21:46	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/28/17 21:46	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/28/17 21:46	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/28/17 21:46	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 21:46	108-87-2	
Methylene Chloride	**8.2**	ug/m3	6.2	0.95	1.75		03/28/17 21:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/28/17 21:46	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/28/17 21:46	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_20_20170307 **Lab ID: 10381335012** Collected: 03/07/17 13:51 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/28/17 21:46	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/28/17 21:46	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/28/17 21:46	79-34-5	
Tetrachloroethene	**127**	ug/m3	1.2	0.49	1.75		03/28/17 21:46	127-18-4	
Toluene	**0.70J**	ug/m3	1.3	0.27	1.75		03/28/17 21:46	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/28/17 21:46	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/28/17 21:46	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/28/17 21:46	79-00-5	
Trichloroethene	**46.3**	ug/m3	0.96	0.48	1.75		03/28/17 21:46	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.0	0.23	1.75		03/28/17 21:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	**2.2J**	ug/m3	2.8	0.53	1.75		03/28/17 21:46	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/28/17 21:46	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/28/17 21:46	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/28/17 21:46	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/28/17 21:46	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/28/17 21:46	95-47-6	

Sample: VP-3D_40_20170307 **Lab ID: 10381335013** Collected: 03/07/17 12:00 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**88.2**	ug/m3	4.1	1.4	1.68		03/31/17 06:02	67-64-1	CH,L1
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/31/17 06:02	107-05-1	
Benzene	**0.33J**	ug/m3	0.55	0.20	1.68		03/31/17 06:02	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	11.4	0.33	1.68		03/31/17 06:02	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/31/17 06:02	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/31/17 06:02	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/31/17 06:02	106-99-0	
2-Butanone (MEK)	**6.7**	ug/m3	5.0	0.38	1.68		03/31/17 06:02	78-93-3	CH,L1
Carbon disulfide	**1.6**	ug/m3	1.1	0.17	1.68		03/31/17 06:02	75-15-0	CH
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/31/17 06:02	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/31/17 06:02	108-90-7	
Chlorodifluoromethane	**<0.46**	ug/m3	1.2	0.46	1.68		03/31/17 06:02	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/31/17 06:02	75-00-3	
Chloroform	**5.2**	ug/m3	0.83	0.32	1.68		03/31/17 06:02	67-66-3	CH,L1
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/31/17 06:02	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/31/17 06:02	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/31/17 06:02	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/31/17 06:02	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/31/17 06:02	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/31/17 06:02	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/31/17 06:02	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/31/17 06:02	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_40_20170307 **Lab ID: 10381335013** Collected: 03/07/17 12:00 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.84**	ug/m3	5.1	0.84	1.68		03/31/17 06:02	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.7	0.81	1.68		03/31/17 06:02	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/31/17 06:02	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/31/17 06:02	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/31/17 06:02	75-35-4	
cis-1,2-Dichloroethene	**20.1**	ug/m3	1.4	0.41	1.68		03/31/17 06:02	156-59-2	CH,L1
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/31/17 06:02	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/31/17 06:02	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/31/17 06:02	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	1.5	0.44	1.68		03/31/17 06:02	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/31/17 06:02	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/31/17 06:02	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/31/17 06:02	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/31/17 06:02	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/31/17 06:02	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/31/17 06:02	87-68-3	
n-Hexane	**2.3**	ug/m3	1.2	0.60	1.68		03/31/17 06:02	110-54-3	CH,L1
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/31/17 06:02	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/31/17 06:02	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/31/17 06:02	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/31/17 06:02	108-87-2	
Methylene Chloride	**143**	ug/m3	5.9	0.91	1.68		03/31/17 06:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/31/17 06:02	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/31/17 06:02	1634-04-4	
2-Propanol	**17.8**	ug/m3	4.2	0.40	1.68		03/31/17 06:02	67-63-0	CH,L1
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/31/17 06:02	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/31/17 06:02	79-34-5	
Tetrachloroethene	**69.6**	ug/m3	1.2	0.47	1.68		03/31/17 06:02	127-18-4	
Toluene	**<0.26**	ug/m3	1.3	0.26	1.68		03/31/17 06:02	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/31/17 06:02	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/31/17 06:02	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/31/17 06:02	79-00-5	
Trichloroethene	**33.3**	ug/m3	0.92	0.46	1.68		03/31/17 06:02	79-01-6	
Trichlorofluoromethane	**1.6J**	ug/m3	1.9	0.22	1.68		03/31/17 06:02	75-69-4	CH,L1
1,1,2-Trichlorotrifluoroethane	**4.3**	ug/m3	2.7	0.51	1.68		03/31/17 06:02	76-13-1	CH,L1
1,2,4-Trimethylbenzene	**2.7**	ug/m3	1.7	0.21	1.68		03/31/17 06:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/31/17 06:02	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/31/17 06:02	75-01-4	
m&p-Xylene	**2.1J**	ug/m3	3.0	1.3	1.68		03/31/17 06:02	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/31/17 06:02	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_51_20170307 **Lab ID: 10381335014** Collected: 03/07/17 11:55 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.6J**	ug/m3	21.1	7.3	8.75		03/29/17 01:05	67-64-1	
Allyl chloride	**<2.0**	ug/m3	13.9	2.0	8.75		03/29/17 01:05	107-05-1	
Benzene	**<1.1**	ug/m3	2.8	1.1	8.75		03/29/17 01:05	71-43-2	
Bromodichloromethane	**<1.7**	ug/m3	11.9	1.7	8.75		03/29/17 01:05	75-27-4	
Bromoform	**<7.9**	ug/m3	18.4	7.9	8.75		03/29/17 01:05	75-25-2	
Bromomethane	**<2.7**	ug/m3	6.9	2.7	8.75		03/29/17 01:05	74-83-9	
1,3-Butadiene	**<1.5**	ug/m3	3.9	1.5	8.75		03/29/17 01:05	106-99-0	
2-Butanone (MEK)	**<2.0**	ug/m3	26.2	2.0	8.75		03/29/17 01:05	78-93-3	
Carbon disulfide	**<0.88**	ug/m3	5.5	0.88	8.75		03/29/17 01:05	75-15-0	
Carbon tetrachloride	**<1.7**	ug/m3	5.6	1.7	8.75		03/29/17 01:05	56-23-5	
Chlorobenzene	**<1.2**	ug/m3	8.2	1.2	8.75		03/29/17 01:05	108-90-7	
Chlorodifluoromethane	**<2.4**	ug/m3	6.3	2.4	8.75		03/29/17 01:05	75-45-6	
Chloroethane	**<1.7**	ug/m3	4.7	1.7	8.75		03/29/17 01:05	75-00-3	
Chloroform	**13.3**	ug/m3	4.3	1.7	8.75		03/29/17 01:05	67-66-3	
Chloromethane	**<0.94**	ug/m3	3.7	0.94	8.75		03/29/17 01:05	74-87-3	
Chloropentafluoroethane	**<28.1**	ug/m3	28.1	28.1	8.75		03/29/17 01:05	76-15-3	
Cyclohexane	**<2.8**	ug/m3	6.1	2.8	8.75		03/29/17 01:05	110-82-7	
1,2-Dibromo-3-chloropropane	**<43.0**	ug/m3	43.0	43.0	8.75		03/29/17 01:05	96-12-8	
Dibromochloromethane	**<7.5**	ug/m3	15.1	7.5	8.75		03/29/17 01:05	124-48-1	
1,2-Dibromoethane (EDB)	**<6.8**	ug/m3	13.6	6.8	8.75		03/29/17 01:05	106-93-4	
1,2-Dichlorobenzene	**<4.5**	ug/m3	10.7	4.5	8.75		03/29/17 01:05	95-50-1	
1,3-Dichlorobenzene	**<4.6**	ug/m3	10.7	4.6	8.75		03/29/17 01:05	541-73-1	
1,4-Dichlorobenzene	**<4.4**	ug/m3	10.7	4.4	8.75		03/29/17 01:05	106-46-7	
Dichlorodifluoromethane	**<4.2**	ug/m3	8.8	4.2	8.75		03/29/17 01:05	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/m3	7.2	1.4	8.75		03/29/17 01:05	75-34-3	
1,2-Dichloroethane	**<1.8**	ug/m3	3.6	1.8	8.75		03/29/17 01:05	107-06-2	
1,1-Dichloroethene	**<2.1**	ug/m3	7.1	2.1	8.75		03/29/17 01:05	75-35-4	
cis-1,2-Dichloroethene	**193**	ug/m3	7.1	2.2	8.75		03/29/17 01:05	156-59-2	
trans-1,2-Dichloroethene	**<3.4**	ug/m3	7.1	3.4	8.75		03/29/17 01:05	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/m3	8.2	2.4	8.75		03/29/17 01:05	78-87-5	
cis-1,3-Dichloropropene	**<3.2**	ug/m3	8.0	3.2	8.75		03/29/17 01:05	10061-01-5	
trans-1,3-Dichloropropene	**<2.3**	ug/m3	20.2	2.3	8.75		03/29/17 01:05	10061-02-6	
Dichlorotetrafluoroethane	**<2.7**	ug/m3	12.4	2.7	8.75		03/29/17 01:05	76-14-2	
Freon 123	**<27.8**	ug/m3	27.8	27.8	8.75		03/29/17 01:05	306-83-2	
1,4-Dioxane (p-Dioxane)	**<3.1**	ug/m3	32.0	3.1	8.75		03/29/17 01:05	123-91-1	
Ethylbenzene	**<3.7**	ug/m3	7.7	3.7	8.75		03/29/17 01:05	100-41-4	
4-Ethyltoluene	**<1.6**	ug/m3	8.8	1.6	8.75		03/29/17 01:05	622-96-8	
Hexachloro-1,3-butadiene	**<5.7**	ug/m3	19.0	5.7	8.75		03/29/17 01:05	87-68-3	
n-Hexane	**<3.1**	ug/m3	6.3	3.1	8.75		03/29/17 01:05	110-54-3	
2-Hexanone	**<3.6**	ug/m3	36.4	3.6	8.75		03/29/17 01:05	591-78-6	
Isopropylbenzene (Cumene)	**<1.2**	ug/m3	21.9	1.2	8.75		03/29/17 01:05	98-82-8	
Methyl acetate	**<13.5**	ug/m3	13.5	13.5	8.75		03/29/17 01:05	79-20-9	
Methylcyclohexane	**<2.1**	ug/m3	7.1	2.1	8.75		03/29/17 01:05	108-87-2	
Methylene Chloride	**121**	ug/m3	30.9	4.7	8.75		03/29/17 01:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.9**	ug/m3	36.4	1.9	8.75		03/29/17 01:05	108-10-1	
Methyl-tert-butyl ether	**<2.7**	ug/m3	32.1	2.7	8.75		03/29/17 01:05	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_51_20170307 **Lab ID: 10381335014** Collected: 03/07/17 11:55 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<2.1**	ug/m3	21.9	2.1	8.75		03/29/17 01:05	67-63-0	
Styrene	**<1.7**	ug/m3	7.6	1.7	8.75		03/29/17 01:05	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.9**	ug/m3	6.1	2.9	8.75		03/29/17 01:05	79-34-5	
Tetrachloroethene	**372**	ug/m3	6.0	2.4	8.75		03/29/17 01:05	127-18-4	
Toluene	**<1.3**	ug/m3	6.7	1.3	8.75		03/29/17 01:05	108-88-3	
1,2,4-Trichlorobenzene	**<8.0**	ug/m3	33.0	8.0	8.75		03/29/17 01:05	120-82-1	
1,1,1-Trichloroethane	**<2.2**	ug/m3	9.7	2.2	8.75		03/29/17 01:05	71-55-6	
1,1,2-Trichloroethane	**<2.2**	ug/m3	4.8	2.2	8.75		03/29/17 01:05	79-00-5	
Trichloroethene	**139**	ug/m3	4.8	2.4	8.75		03/29/17 01:05	79-01-6	
Trichlorofluoromethane	**<1.2**	ug/m3	10	1.2	8.75		03/29/17 01:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	**15.8**	ug/m3	14.0	2.6	8.75		03/29/17 01:05	76-13-1	
1,2,4-Trimethylbenzene	**<1.1**	ug/m3	8.7	1.1	8.75		03/29/17 01:05	95-63-6	
1,3,5-Trimethylbenzene	**<1.6**	ug/m3	8.7	1.6	8.75		03/29/17 01:05	108-67-8	
Vinyl chloride	**<1.7**	ug/m3	2.3	1.7	8.75		03/29/17 01:05	75-01-4	
m&p-Xylene	**<6.9**	ug/m3	15.5	6.9	8.75		03/29/17 01:05	179601-23-1	
o-Xylene	**<3.1**	ug/m3	7.7	3.1	8.75		03/29/17 01:05	95-47-6	

Sample: VP-3D_61_20170307 **Lab ID: 10381335015** Collected: 03/07/17 11:53 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**11.8J**	ug/m3	21.1	7.3	8.75		03/28/17 23:42	67-64-1	
Allyl chloride	**<2.0**	ug/m3	13.9	2.0	8.75		03/28/17 23:42	107-05-1	
Benzene	**<1.1**	ug/m3	2.8	1.1	8.75		03/28/17 23:42	71-43-2	
Bromodichloromethane	**<1.7**	ug/m3	11.9	1.7	8.75		03/28/17 23:42	75-27-4	
Bromoform	**9.9J**	ug/m3	18.4	7.9	8.75		03/28/17 23:42	75-25-2	
Bromomethane	**<2.7**	ug/m3	6.9	2.7	8.75		03/28/17 23:42	74-83-9	
1,3-Butadiene	**<1.5**	ug/m3	3.9	1.5	8.75		03/28/17 23:42	106-99-0	
2-Butanone (MEK)	**<2.0**	ug/m3	26.2	2.0	8.75		03/28/17 23:42	78-93-3	
Carbon disulfide	**<0.88**	ug/m3	5.5	0.88	8.75		03/28/17 23:42	75-15-0	
Carbon tetrachloride	**<1.7**	ug/m3	5.6	1.7	8.75		03/28/17 23:42	56-23-5	
Chlorobenzene	**<1.2**	ug/m3	8.2	1.2	8.75		03/28/17 23:42	108-90-7	
Chlorodifluoromethane	**<2.4**	ug/m3	6.3	2.4	8.75		03/28/17 23:42	75-45-6	
Chloroethane	**<1.7**	ug/m3	4.7	1.7	8.75		03/28/17 23:42	75-00-3	
Chloroform	**7.5**	ug/m3	4.3	1.7	8.75		03/28/17 23:42	67-66-3	
Chloromethane	**<0.94**	ug/m3	3.7	0.94	8.75		03/28/17 23:42	74-87-3	
Chloropentafluoroethane	**<28.1**	ug/m3	28.1	28.1	8.75		03/28/17 23:42	76-15-3	
Cyclohexane	**<2.8**	ug/m3	6.1	2.8	8.75		03/28/17 23:42	110-82-7	
1,2-Dibromo-3-chloropropane	**<43.0**	ug/m3	43.0	43.0	8.75		03/28/17 23:42	96-12-8	
Dibromochloromethane	**17.3**	ug/m3	15.1	7.5	8.75		03/28/17 23:42	124-48-1	
1,2-Dibromoethane (EDB)	**<6.8**	ug/m3	13.6	6.8	8.75		03/28/17 23:42	106-93-4	
1,2-Dichlorobenzene	**<4.5**	ug/m3	10.7	4.5	8.75		03/28/17 23:42	95-50-1	
1,3-Dichlorobenzene	**<4.6**	ug/m3	10.7	4.6	8.75		03/28/17 23:42	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_61_20170307 **Lab ID: 10381335015** Collected: 03/07/17 11:53 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<4.4**	ug/m3	10.7	4.4	8.75		03/28/17 23:42	106-46-7	
Dichlorodifluoromethane	**6.5J**	ug/m3	8.8	4.2	8.75		03/28/17 23:42	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/m3	7.2	1.4	8.75		03/28/17 23:42	75-34-3	
1,2-Dichloroethane	**<1.8**	ug/m3	3.6	1.8	8.75		03/28/17 23:42	107-06-2	
1,1-Dichloroethene	**<2.1**	ug/m3	7.1	2.1	8.75		03/28/17 23:42	75-35-4	
cis-1,2-Dichloroethene	**133**	ug/m3	7.1	2.2	8.75		03/28/17 23:42	156-59-2	
trans-1,2-Dichloroethene	**<3.4**	ug/m3	7.1	3.4	8.75		03/28/17 23:42	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/m3	8.2	2.4	8.75		03/28/17 23:42	78-87-5	
cis-1,3-Dichloropropene	**<3.2**	ug/m3	8.0	3.2	8.75		03/28/17 23:42	10061-01-5	
trans-1,3-Dichloropropene	**<2.3**	ug/m3	20.2	2.3	8.75		03/28/17 23:42	10061-02-6	
Dichlorotetrafluoroethane	**<2.7**	ug/m3	12.4	2.7	8.75		03/28/17 23:42	76-14-2	
Freon 123	**<27.8**	ug/m3	27.8	27.8	8.75		03/28/17 23:42	306-83-2	
1,4-Dioxane (p-Dioxane)	**<3.1**	ug/m3	32.0	3.1	8.75		03/28/17 23:42	123-91-1	
Ethylbenzene	**<3.7**	ug/m3	7.7	3.7	8.75		03/28/17 23:42	100-41-4	
4-Ethyltoluene	**<1.6**	ug/m3	8.8	1.6	8.75		03/28/17 23:42	622-96-8	
Hexachloro-1,3-butadiene	**<5.7**	ug/m3	19.0	5.7	8.75		03/28/17 23:42	87-68-3	
n-Hexane	**<3.1**	ug/m3	6.3	3.1	8.75		03/28/17 23:42	110-54-3	
2-Hexanone	**<3.6**	ug/m3	36.4	3.6	8.75		03/28/17 23:42	591-78-6	
Isopropylbenzene (Cumene)	**<1.2**	ug/m3	21.9	1.2	8.75		03/28/17 23:42	98-82-8	
Methyl acetate	**<13.5**	ug/m3	13.5	13.5	8.75		03/28/17 23:42	79-20-9	
Methylcyclohexane	**<2.1**	ug/m3	7.1	2.1	8.75		03/28/17 23:42	108-87-2	
Methylene Chloride	**125**	ug/m3	30.9	4.7	8.75		03/28/17 23:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.9**	ug/m3	36.4	1.9	8.75		03/28/17 23:42	108-10-1	
Methyl-tert-butyl ether	**<2.7**	ug/m3	32.1	2.7	8.75		03/28/17 23:42	1634-04-4	
2-Propanol	**<2.1**	ug/m3	21.9	2.1	8.75		03/28/17 23:42	67-63-0	
Styrene	**<1.7**	ug/m3	7.6	1.7	8.75		03/28/17 23:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.9**	ug/m3	6.1	2.9	8.75		03/28/17 23:42	79-34-5	
Tetrachloroethene	**611**	ug/m3	6.0	2.4	8.75		03/28/17 23:42	127-18-4	
Toluene	**<1.3**	ug/m3	6.7	1.3	8.75		03/28/17 23:42	108-88-3	
1,2,4-Trichlorobenzene	**<8.0**	ug/m3	33.0	8.0	8.75		03/28/17 23:42	120-82-1	
1,1,1-Trichloroethane	**<2.2**	ug/m3	9.7	2.2	8.75		03/28/17 23:42	71-55-6	
1,1,2-Trichloroethane	**<2.2**	ug/m3	4.8	2.2	8.75		03/28/17 23:42	79-00-5	
Trichloroethene	**242**	ug/m3	4.8	2.4	8.75		03/28/17 23:42	79-01-6	
Trichlorofluoromethane	**<1.2**	ug/m3	10	1.2	8.75		03/28/17 23:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**28.8**	ug/m3	14.0	2.6	8.75		03/28/17 23:42	76-13-1	
1,2,4-Trimethylbenzene	**<1.1**	ug/m3	8.7	1.1	8.75		03/28/17 23:42	95-63-6	
1,3,5-Trimethylbenzene	**<1.6**	ug/m3	8.7	1.6	8.75		03/28/17 23:42	108-67-8	
Vinyl chloride	**<1.7**	ug/m3	2.3	1.7	8.75		03/28/17 23:42	75-01-4	
m&p-Xylene	**<6.9**	ug/m3	15.5	6.9	8.75		03/28/17 23:42	179601-23-1	
o-Xylene	**<3.1**	ug/m3	7.7	3.1	8.75		03/28/17 23:42	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_73_20170307 **Lab ID: 10381335016** Collected: 03/07/17 12:04 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.4J**	ug/m3	20.3	7.0	8.4		03/29/17 01:33	67-64-1	
Allyl chloride	**<1.9**	ug/m3	13.4	1.9	8.4		03/29/17 01:33	107-05-1	
Benzene	**<1.0**	ug/m3	2.7	1.0	8.4		03/29/17 01:33	71-43-2	
Bromodichloromethane	**<1.6**	ug/m3	11.4	1.6	8.4		03/29/17 01:33	75-27-4	
Bromoform	**<7.6**	ug/m3	17.6	7.6	8.4		03/29/17 01:33	75-25-2	
Bromomethane	**<2.6**	ug/m3	6.6	2.6	8.4		03/29/17 01:33	74-83-9	
1,3-Butadiene	**<1.5**	ug/m3	3.8	1.5	8.4		03/29/17 01:33	106-99-0	
2-Butanone (MEK)	**<1.9**	ug/m3	25.2	1.9	8.4		03/29/17 01:33	78-93-3	
Carbon disulfide	**<0.85**	ug/m3	5.3	0.85	8.4		03/29/17 01:33	75-15-0	
Carbon tetrachloride	**<1.6**	ug/m3	5.4	1.6	8.4		03/29/17 01:33	56-23-5	
Chlorobenzene	**<1.1**	ug/m3	7.9	1.1	8.4		03/29/17 01:33	108-90-7	
Chlorodifluoromethane	**11.7**	ug/m3	6.0	2.3	8.4		03/29/17 01:33	75-45-6	
Chloroethane	**<1.6**	ug/m3	4.5	1.6	8.4		03/29/17 01:33	75-00-3	
Chloroform	**5.7**	ug/m3	4.2	1.6	8.4		03/29/17 01:33	67-66-3	
Chloromethane	**<0.91**	ug/m3	3.5	0.91	8.4		03/29/17 01:33	74-87-3	
Chloropentafluoroethane	**<27.0**	ug/m3	27.0	27.0	8.4		03/29/17 01:33	76-15-3	
Cyclohexane	**<2.7**	ug/m3	5.9	2.7	8.4		03/29/17 01:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<41.2**	ug/m3	41.2	41.2	8.4		03/29/17 01:33	96-12-8	
Dibromochloromethane	**<7.2**	ug/m3	14.5	7.2	8.4		03/29/17 01:33	124-48-1	
1,2-Dibromoethane (EDB)	**<6.5**	ug/m3	13.1	6.5	8.4		03/29/17 01:33	106-93-4	
1,2-Dichlorobenzene	**<4.3**	ug/m3	10.2	4.3	8.4		03/29/17 01:33	95-50-1	
1,3-Dichlorobenzene	**<4.5**	ug/m3	10.2	4.5	8.4		03/29/17 01:33	541-73-1	
1,4-Dichlorobenzene	**<4.2**	ug/m3	10.2	4.2	8.4		03/29/17 01:33	106-46-7	
Dichlorodifluoromethane	**7.2J**	ug/m3	8.5	4.0	8.4		03/29/17 01:33	75-71-8	
1,1-Dichloroethane	**<1.3**	ug/m3	6.9	1.3	8.4		03/29/17 01:33	75-34-3	
1,2-Dichloroethane	**<1.7**	ug/m3	3.4	1.7	8.4		03/29/17 01:33	107-06-2	
1,1-Dichloroethene	**<2.0**	ug/m3	6.8	2.0	8.4		03/29/17 01:33	75-35-4	
cis-1,2-Dichloroethene	**16.1**	ug/m3	6.8	2.1	8.4		03/29/17 01:33	156-59-2	
trans-1,2-Dichloroethene	**<3.2**	ug/m3	6.8	3.2	8.4		03/29/17 01:33	156-60-5	
1,2-Dichloropropane	**<2.3**	ug/m3	7.9	2.3	8.4		03/29/17 01:33	78-87-5	
cis-1,3-Dichloropropene	**<3.1**	ug/m3	7.7	3.1	8.4		03/29/17 01:33	10061-01-5	
trans-1,3-Dichloropropene	**<2.2**	ug/m3	19.4	2.2	8.4		03/29/17 01:33	10061-02-6	
Dichlorotetrafluoroethane	**<2.6**	ug/m3	11.9	2.6	8.4		03/29/17 01:33	76-14-2	
Freon 123	**<26.7**	ug/m3	26.7	26.7	8.4		03/29/17 01:33	306-83-2	
1,4-Dioxane (p-Dioxane)	**<3.0**	ug/m3	30.7	3.0	8.4		03/29/17 01:33	123-91-1	
Ethylbenzene	**<3.6**	ug/m3	7.4	3.6	8.4		03/29/17 01:33	100-41-4	
4-Ethyltoluene	**<1.6**	ug/m3	8.4	1.6	8.4		03/29/17 01:33	622-96-8	
Hexachloro-1,3-butadiene	**<5.5**	ug/m3	18.2	5.5	8.4		03/29/17 01:33	87-68-3	
n-Hexane	**<3.0**	ug/m3	6.0	3.0	8.4		03/29/17 01:33	110-54-3	
2-Hexanone	**<3.4**	ug/m3	35.0	3.4	8.4		03/29/17 01:33	591-78-6	
Isopropylbenzene (Cumene)	**<1.2**	ug/m3	21.0	1.2	8.4		03/29/17 01:33	98-82-8	
Methyl acetate	**<12.9**	ug/m3	12.9	12.9	8.4		03/29/17 01:33	79-20-9	
Methylcyclohexane	**<2.0**	ug/m3	6.9	2.0	8.4		03/29/17 01:33	108-87-2	
Methylene Chloride	**<4.6**	ug/m3	29.7	4.6	8.4		03/29/17 01:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.8**	ug/m3	35.0	1.8	8.4		03/29/17 01:33	108-10-1	
Methyl-tert-butyl ether	**<2.5**	ug/m3	30.8	2.5	8.4		03/29/17 01:33	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_73_20170307 **Lab ID: 10381335016** Collected: 03/07/17 12:04 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**<2.0**	ug/m3	21.0	2.0	8.4		03/29/17 01:33	67-63-0	
Styrene	**<1.6**	ug/m3	7.3	1.6	8.4		03/29/17 01:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.8**	ug/m3	5.9	2.8	8.4		03/29/17 01:33	79-34-5	
Tetrachloroethene	**461**	ug/m3	5.8	2.3	8.4		03/29/17 01:33	127-18-4	
Toluene	**<1.3**	ug/m3	6.5	1.3	8.4		03/29/17 01:33	108-88-3	
1,2,4-Trichlorobenzene	**<7.6**	ug/m3	31.7	7.6	8.4		03/29/17 01:33	120-82-1	
1,1,1-Trichloroethane	**5.9J**	ug/m3	9.3	2.1	8.4		03/29/17 01:33	71-55-6	
1,1,2-Trichloroethane	**<2.1**	ug/m3	4.6	2.1	8.4		03/29/17 01:33	79-00-5	
Trichloroethene	**186**	ug/m3	4.6	2.3	8.4		03/29/17 01:33	79-01-6	
Trichlorofluoromethane	**<1.1**	ug/m3	9.6	1.1	8.4		03/29/17 01:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	**32.5**	ug/m3	13.4	2.5	8.4		03/29/17 01:33	76-13-1	
1,2,4-Trimethylbenzene	**<1.0**	ug/m3	8.4	1.0	8.4		03/29/17 01:33	95-63-6	
1,3,5-Trimethylbenzene	**<1.5**	ug/m3	8.4	1.5	8.4		03/29/17 01:33	108-67-8	
Vinyl chloride	**<1.6**	ug/m3	2.2	1.6	8.4		03/29/17 01:33	75-01-4	
m&p-Xylene	**<6.6**	ug/m3	14.9	6.6	8.4		03/29/17 01:33	179601-23-1	
o-Xylene	**<2.9**	ug/m3	7.4	2.9	8.4		03/29/17 01:33	95-47-6	

Sample: VP-108_5_20170307 **Lab ID: 10381335017** Collected: 03/07/17 13:54 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**298**	ug/m3	3.9	1.3	1.61		03/28/17 19:08	67-64-1	
Allyl chloride	**<0.37**	ug/m3	2.6	0.37	1.61		03/28/17 19:08	107-05-1	
Benzene	**2.4**	ug/m3	0.52	0.20	1.61		03/28/17 19:08	71-43-2	
Bromodichloromethane	**<0.31**	ug/m3	2.2	0.31	1.61		03/28/17 19:08	75-27-4	
Bromoform	**<1.5**	ug/m3	3.4	1.5	1.61		03/28/17 19:08	75-25-2	
Bromomethane	**<0.50**	ug/m3	1.3	0.50	1.61		03/28/17 19:08	74-83-9	
1,3-Butadiene	**<0.28**	ug/m3	0.72	0.28	1.61		03/28/17 19:08	106-99-0	
2-Butanone (MEK)	**<0.37**	ug/m3	4.8	0.37	1.61		03/28/17 19:08	78-93-3	
Carbon disulfide	**<0.16**	ug/m3	1.0	0.16	1.61		03/28/17 19:08	75-15-0	
Carbon tetrachloride	**0.53J**	ug/m3	1.0	0.31	1.61		03/28/17 19:08	56-23-5	
Chlorobenzene	**<0.22**	ug/m3	1.5	0.22	1.61		03/28/17 19:08	108-90-7	
Chlorodifluoromethane	**<0.44**	ug/m3	1.2	0.44	1.61		03/28/17 19:08	75-45-6	
Chloroethane	**0.68J**	ug/m3	0.87	0.31	1.61		03/28/17 19:08	75-00-3	
Chloroform	**<0.31**	ug/m3	0.80	0.31	1.61		03/28/17 19:08	67-66-3	
Chloromethane	**1.8**	ug/m3	0.68	0.17	1.61		03/28/17 19:08	74-87-3	
Chloropentafluoroethane	**<5.2**	ug/m3	5.2	5.2	1.61		03/28/17 19:08	76-15-3	
Cyclohexane	**2.0**	ug/m3	1.1	0.51	1.61		03/28/17 19:08	110-82-7	
1,2-Dibromo-3-chloropropane	**<7.9**	ug/m3	7.9	7.9	1.61		03/28/17 19:08	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.8	1.4	1.61		03/28/17 19:08	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/m3	2.5	1.2	1.61		03/28/17 19:08	106-93-4	
1,2-Dichlorobenzene	**<0.82**	ug/m3	2.0	0.82	1.61		03/28/17 19:08	95-50-1	
1,3-Dichlorobenzene	**<0.85**	ug/m3	2.0	0.85	1.61		03/28/17 19:08	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_5_20170307 **Lab ID: 10381335017** Collected: 03/07/17 13:54 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.80**	ug/m3	2.0	0.80	1.61		03/28/17 19:08	106-46-7	
Dichlorodifluoromethane	**3.1**	ug/m3	1.6	0.77	1.61		03/28/17 19:08	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/m3	1.3	0.25	1.61		03/28/17 19:08	75-34-3	
1,2-Dichloroethane	**<0.33**	ug/m3	0.66	0.33	1.61		03/28/17 19:08	107-06-2	
1,1-Dichloroethene	**<0.38**	ug/m3	1.3	0.38	1.61		03/28/17 19:08	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.3	0.40	1.61		03/28/17 19:08	156-59-2	
trans-1,2-Dichloroethene	**<0.62**	ug/m3	1.3	0.62	1.61		03/28/17 19:08	156-60-5	
1,2-Dichloropropane	**<0.43**	ug/m3	1.5	0.43	1.61		03/28/17 19:08	78-87-5	
cis-1,3-Dichloropropene	**<0.59**	ug/m3	1.5	0.59	1.61		03/28/17 19:08	10061-01-5	
trans-1,3-Dichloropropene	**<0.42**	ug/m3	3.7	0.42	1.61		03/28/17 19:08	10061-02-6	
Dichlorotetrafluoroethane	**<0.50**	ug/m3	2.3	0.50	1.61		03/28/17 19:08	76-14-2	
Freon 123	**<5.1**	ug/m3	5.1	5.1	1.61		03/28/17 19:08	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.57**	ug/m3	5.9	0.57	1.61		03/28/17 19:08	123-91-1	
Ethylbenzene	**2.5**	ug/m3	1.4	0.68	1.61		03/28/17 19:08	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.6	0.30	1.61		03/28/17 19:08	622-96-8	
Hexachloro-1,3-butadiene	**<1.0**	ug/m3	3.5	1.0	1.61		03/28/17 19:08	87-68-3	
n-Hexane	**2.6**	ug/m3	1.2	0.57	1.61		03/28/17 19:08	110-54-3	
2-Hexanone	**<0.66**	ug/m3	6.7	0.66	1.61		03/28/17 19:08	591-78-6	
Isopropylbenzene (Cumene)	**<0.22**	ug/m3	4.0	0.22	1.61		03/28/17 19:08	98-82-8	
Methyl acetate	**<2.5**	ug/m3	2.5	2.5	1.61		03/28/17 19:08	79-20-9	
Methylcyclohexane	**0.97J**	ug/m3	1.3	0.39	1.61		03/28/17 19:08	108-87-2	
Methylene Chloride	**19.2**	ug/m3	5.7	0.87	1.61		03/28/17 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.35**	ug/m3	6.7	0.35	1.61		03/28/17 19:08	108-10-1	
Methyl-tert-butyl ether	**<0.49**	ug/m3	5.9	0.49	1.61		03/28/17 19:08	1634-04-4	
2-Propanol	**7.9**	ug/m3	4.0	0.39	1.61		03/28/17 19:08	67-63-0	
Styrene	**230**	ug/m3	1.4	0.31	1.61		03/28/17 19:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.53**	ug/m3	1.1	0.53	1.61		03/28/17 19:08	79-34-5	
Tetrachloroethene	**0.78J**	ug/m3	1.1	0.45	1.61		03/28/17 19:08	127-18-4	
Toluene	**8.3**	ug/m3	1.2	0.25	1.61		03/28/17 19:08	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.1	1.5	1.61		03/28/17 19:08	120-82-1	
1,1,1-Trichloroethane	**<0.40**	ug/m3	1.8	0.40	1.61		03/28/17 19:08	71-55-6	
1,1,2-Trichloroethane	**<0.40**	ug/m3	0.89	0.40	1.61		03/28/17 19:08	79-00-5	
Trichloroethene	**<0.44**	ug/m3	0.89	0.44	1.61		03/28/17 19:08	79-01-6	
Trichlorofluoromethane	**1.8J**	ug/m3	1.8	0.21	1.61		03/28/17 19:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.48**	ug/m3	2.6	0.48	1.61		03/28/17 19:08	76-13-1	
1,2,4-Trimethylbenzene	**3.1**	ug/m3	1.6	0.20	1.61		03/28/17 19:08	95-63-6	
1,3,5-Trimethylbenzene	**0.99J**	ug/m3	1.6	0.29	1.61		03/28/17 19:08	108-67-8	
Vinyl chloride	**<0.31**	ug/m3	0.42	0.31	1.61		03/28/17 19:08	75-01-4	
m&p-Xylene	**10.5**	ug/m3	2.8	1.3	1.61		03/28/17 19:08	179601-23-1	
o-Xylene	**4.2**	ug/m3	1.4	0.57	1.61		03/28/17 19:08	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_10_20170307 **Lab ID: 10381335018** Collected: 03/07/17 13:25 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**5.4**	ug/m3	4.1	1.4	1.68		03/28/17 20:43	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/28/17 20:43	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/28/17 20:43	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/28/17 20:43	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/28/17 20:43	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/28/17 20:43	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/28/17 20:43	106-99-0	
2-Butanone (MEK)	**<0.38**	ug/m3	5.0	0.38	1.68		03/28/17 20:43	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/28/17 20:43	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/28/17 20:43	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/28/17 20:43	108-90-7	
Chlorodifluoromethane	**1.1J**	ug/m3	1.2	0.46	1.68		03/28/17 20:43	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/28/17 20:43	75-00-3	
Chloroform	**<0.32**	ug/m3	0.83	0.32	1.68		03/28/17 20:43	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/28/17 20:43	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/28/17 20:43	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/28/17 20:43	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/28/17 20:43	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/28/17 20:43	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/28/17 20:43	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/28/17 20:43	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/28/17 20:43	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/28/17 20:43	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.7	0.81	1.68		03/28/17 20:43	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/28/17 20:43	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/28/17 20:43	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/28/17 20:43	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 20:43	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/28/17 20:43	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/28/17 20:43	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/28/17 20:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	3.9	0.44	1.68		03/28/17 20:43	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/28/17 20:43	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/28/17 20:43	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/28/17 20:43	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/28/17 20:43	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/28/17 20:43	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/28/17 20:43	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.2	0.60	1.68		03/28/17 20:43	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/28/17 20:43	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/28/17 20:43	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/28/17 20:43	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 20:43	108-87-2	
Methylene Chloride	**7.7**	ug/m3	5.9	0.91	1.68		03/28/17 20:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/28/17 20:43	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/28/17 20:43	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_10_20170307 **Lab ID: 10381335018** Collected: 03/07/17 13:25 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**22.4**	ug/m3	4.2	0.40	1.68		03/28/17 20:43	67-63-0	
Styrene	**<0.32**	ug/m3	1.5	0.32	1.68		03/28/17 20:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/28/17 20:43	79-34-5	
Tetrachloroethene	**7.7**	ug/m3	1.2	0.47	1.68		03/28/17 20:43	127-18-4	
Toluene	**<0.26**	ug/m3	1.3	0.26	1.68		03/28/17 20:43	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/28/17 20:43	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/28/17 20:43	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/28/17 20:43	79-00-5	
Trichloroethene	**5.4**	ug/m3	0.92	0.46	1.68		03/28/17 20:43	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	1.9	0.22	1.68		03/28/17 20:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**0.70J**	ug/m3	2.7	0.51	1.68		03/28/17 20:43	76-13-1	
1,2,4-Trimethylbenzene	**<0.21**	ug/m3	1.7	0.21	1.68		03/28/17 20:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/28/17 20:43	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/28/17 20:43	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/28/17 20:43	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/28/17 20:43	95-47-6	

Sample: VP-108_20_20170307 **Lab ID: 10381335019** Collected: 03/07/17 12:09 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**12.6**	ug/m3	4.2	1.5	1.75		03/28/17 21:14	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/28/17 21:14	107-05-1	
Benzene	**0.34J**	ug/m3	0.57	0.21	1.75		03/28/17 21:14	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/28/17 21:14	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/28/17 21:14	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/28/17 21:14	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/28/17 21:14	106-99-0	
2-Butanone (MEK)	**<0.40**	ug/m3	5.2	0.40	1.75		03/28/17 21:14	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/28/17 21:14	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/28/17 21:14	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/28/17 21:14	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/28/17 21:14	75-45-6	
Chloroethane	**0.55J**	ug/m3	0.94	0.34	1.75		03/28/17 21:14	75-00-3	
Chloroform	**0.92**	ug/m3	0.87	0.33	1.75		03/28/17 21:14	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/28/17 21:14	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 21:14	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/28/17 21:14	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/28/17 21:14	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/28/17 21:14	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/28/17 21:14	106-93-4	
1,2-Dichlorobenzene	**<0.90**	ug/m3	2.1	0.90	1.75		03/28/17 21:14	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/28/17 21:14	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_20_20170307 **Lab ID: 10381335019** Collected: 03/07/17 12:09 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/28/17 21:14	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.84	1.75		03/28/17 21:14	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/m3	1.4	0.27	1.75		03/28/17 21:14	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/m3	0.72	0.36	1.75		03/28/17 21:14	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 21:14	75-35-4	
cis-1,2-Dichloroethene	**33.8**	ug/m3	1.4	0.43	1.75		03/28/17 21:14	156-59-2	
trans-1,2-Dichloroethene	**<0.67**	ug/m3	1.4	0.67	1.75		03/28/17 21:14	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/28/17 21:14	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/28/17 21:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/m3	4.0	0.46	1.75		03/28/17 21:14	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/28/17 21:14	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 21:14	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/28/17 21:14	123-91-1	
Ethylbenzene	**<0.74**	ug/m3	1.5	0.74	1.75		03/28/17 21:14	100-41-4	
4-Ethyltoluene	**<0.33**	ug/m3	1.8	0.33	1.75		03/28/17 21:14	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/28/17 21:14	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.3	0.62	1.75		03/28/17 21:14	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/28/17 21:14	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/28/17 21:14	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/28/17 21:14	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 21:14	108-87-2	
Methylene Chloride	**5.8J**	ug/m3	6.2	0.95	1.75		03/28/17 21:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/28/17 21:14	108-10-1	
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/28/17 21:14	1634-04-4	
2-Propanol	**4.3J**	ug/m3	4.4	0.42	1.75		03/28/17 21:14	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/28/17 21:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/28/17 21:14	79-34-5	
Tetrachloroethene	**708**	ug/m3	1.2	0.49	1.75		03/28/17 21:14	127-18-4	
Tetrachloroethene	**958**	ug/m3	12.1	4.9	17.5		03/31/17 10:50	127-18-4	
Toluene	**1.3J**	ug/m3	1.3	0.27	1.75		03/28/17 21:14	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/28/17 21:14	120-82-1	
1,1,1-Trichloroethane	**<0.43**	ug/m3	1.9	0.43	1.75		03/28/17 21:14	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/28/17 21:14	79-00-5	
Trichloroethene	**69.4**	ug/m3	0.96	0.48	1.75		03/28/17 21:14	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.0	0.23	1.75		03/28/17 21:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**10.3**	ug/m3	2.8	0.53	1.75		03/28/17 21:14	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/28/17 21:14	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/28/17 21:14	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/28/17 21:14	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.1	1.4	1.75		03/28/17 21:14	179601-23-1	
o-Xylene	**<0.61**	ug/m3	1.5	0.61	1.75		03/28/17 21:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_29.5_20170307 **Lab ID: 10381335020** Collected: 03/07/17 12:44 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<122**	ug/m3	353	122	146.4		03/31/17 07:53	67-64-1	
Allyl chloride	**<33.2**	ug/m3	233	33.2	146.4		03/31/17 07:53	107-05-1	
Benzene	**<17.9**	ug/m3	47.6	17.9	146.4		03/31/17 07:53	71-43-2	
Bromodichloromethane	**<28.4**	ug/m3	997	28.4	146.4		03/31/17 07:53	75-27-4	
Bromoform	**<132**	ug/m3	308	132	146.4		03/31/17 07:53	75-25-2	
Bromomethane	**<45.4**	ug/m3	116	45.4	146.4		03/31/17 07:53	74-83-9	
1,3-Butadiene	**<25.8**	ug/m3	65.9	25.8	146.4		03/31/17 07:53	106-99-0	
2-Butanone (MEK)	**<33.4**	ug/m3	439	33.4	146.4		03/31/17 07:53	78-93-3	
Carbon disulfide	**<14.8**	ug/m3	92.2	14.8	146.4		03/31/17 07:53	75-15-0	
Carbon tetrachloride	**<28.3**	ug/m3	93.7	28.3	146.4		03/31/17 07:53	56-23-5	
Chlorobenzene	**<19.6**	ug/m3	138	19.6	146.4		03/31/17 07:53	108-90-7	
Chlorodifluoromethane	**<40.4**	ug/m3	105	40.4	146.4		03/31/17 07:53	75-45-6	
Chloroethane	**<28.4**	ug/m3	79.1	28.4	146.4		03/31/17 07:53	75-00-3	
Chloroform	**116**	ug/m3	72.6	27.8	146.4		03/31/17 07:53	67-66-3	CH
Chloromethane	**<15.8**	ug/m3	61.5	15.8	146.4		03/31/17 07:53	74-87-3	
Chloropentafluoroethane	**<470**	ug/m3	470	470	146.4		03/31/17 07:53	76-15-3	
Cyclohexane	**<46.3**	ug/m3	102	46.3	146.4		03/31/17 07:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<719**	ug/m3	719	719	146.4		03/31/17 07:53	96-12-8	
Dibromochloromethane	**<125**	ug/m3	253	125	146.4		03/31/17 07:53	124-48-1	
1,2-Dibromoethane (EDB)	**<113**	ug/m3	228	113	146.4		03/31/17 07:53	106-93-4	
1,2-Dichlorobenzene	**<75.0**	ug/m3	179	75.0	146.4		03/31/17 07:53	95-50-1	
1,3-Dichlorobenzene	**<77.6**	ug/m3	179	77.6	146.4		03/31/17 07:53	541-73-1	
1,4-Dichlorobenzene	**<73.1**	ug/m3	447	73.1	146.4		03/31/17 07:53	106-46-7	
Dichlorodifluoromethane	**<70.3**	ug/m3	148	70.3	146.4		03/31/17 07:53	75-71-8	
1,1-Dichloroethane	**<23.0**	ug/m3	120	23.0	146.4		03/31/17 07:53	75-34-3	
1,2-Dichloroethane	**<30.0**	ug/m3	60.0	30.0	146.4		03/31/17 07:53	107-06-2	
1,1-Dichloroethene	**<34.8**	ug/m3	119	34.8	146.4		03/31/17 07:53	75-35-4	
cis-1,2-Dichloroethene	**29700**	ug/m3	119	36.0	146.4		03/31/17 07:53	156-59-2	
cis-1,2-Dichloroethene	**42300**	ug/m3	871	264	1075.2		04/01/17 20:45	156-59-2	
trans-1,2-Dichloroethene	**308**	ug/m3	119	56.2	146.4		03/31/17 07:53	156-60-5	CH,L1
1,2-Dichloropropane	**<39.5**	ug/m3	138	39.5	146.4		03/31/17 07:53	78-87-5	
cis-1,3-Dichloropropene	**<54.0**	ug/m3	135	54.0	146.4		03/31/17 07:53	10061-01-5	
trans-1,3-Dichloropropene	**<38.1**	ug/m3	135	38.1	146.4		03/31/17 07:53	10061-02-6	
Dichlorotetrafluoroethane	**<45.4**	ug/m3	208	45.4	146.4		03/31/17 07:53	76-14-2	
Freon 123	**<466**	ug/m3	466	466	146.4		03/31/17 07:53	306-83-2	
1,4-Dioxane (p-Dioxane)	**<51.5**	ug/m3	536	51.5	146.4		03/31/17 07:53	123-91-1	
Ethylbenzene	**<62.2**	ug/m3	129	62.2	146.4		03/31/17 07:53	100-41-4	
4-Ethyltoluene	**<27.5**	ug/m3	146	27.5	146.4		03/31/17 07:53	622-96-8	
Hexachloro-1,3-butadiene	**<95.2**	ug/m3	317	95.2	146.4		03/31/17 07:53	87-68-3	
n-Hexane	**<52.3**	ug/m3	105	52.3	146.4		03/31/17 07:53	110-54-3	
2-Hexanone	**<60.0**	ug/m3	610	60.0	146.4		03/31/17 07:53	591-78-6	
Isopropylbenzene (Cumene)	**<20.2**	ug/m3	366	20.2	146.4		03/31/17 07:53	98-82-8	
Methyl acetate	**<225**	ug/m3	225	225	146.4		03/31/17 07:53	79-20-9	
Methylcyclohexane	**<35.4**	ug/m3	119	35.4	146.4		03/31/17 07:53	108-87-2	
Methylene Chloride	**<79.3**	ug/m3	517	79.3	146.4		03/31/17 07:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<31.8**	ug/m3	610	31.8	146.4		03/31/17 07:53	108-10-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108_29.5_20170307 **Lab ID: 10381335020** Collected: 03/07/17 12:44 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methyl-tert-butyl ether	**<44.4**	ug/m3	537	44.4	146.4		03/31/17 07:53	1634-04-4	
2-Propanol	**<35.1**	ug/m3	366	35.1	146.4		03/31/17 07:53	67-63-0	
Styrene	**<28.3**	ug/m3	127	28.3	146.4		03/31/17 07:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<48.2**	ug/m3	102	48.2	146.4		03/31/17 07:53	79-34-5	
Tetrachloroethene	**92800**	ug/m3	101	40.7	146.4		03/31/17 07:53	127-18-4	
Tetrachloroethene	**209000**	ug/m3	741	299	1075.2		04/01/17 20:45	127-18-4	
Toluene	**<22.5**	ug/m3	113	22.5	146.4		03/31/17 07:53	108-88-3	
1,2,4-Trichlorobenzene	**<133**	ug/m3	552	133	146.4		03/31/17 07:53	120-82-1	
1,1,1-Trichloroethane	**138J**	ug/m3	163	36.2	146.4		03/31/17 07:53	71-55-6	
1,1,2-Trichloroethane	**<36.0**	ug/m3	80.5	36.0	146.4		03/31/17 07:53	79-00-5	
Trichloroethene	**13800**	ug/m3	80.5	40.4	146.4		03/31/17 07:53	79-01-6	
Trichlorofluoromethane	**<19.3**	ug/m3	167	19.3	146.4		03/31/17 07:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**7600**	ug/m3	1720	324	1075.2		04/01/17 20:45	76-13-1	
1,2,4-Trimethylbenzene	**<18.3**	ug/m3	146	18.3	146.4		03/31/17 07:53	95-63-6	
1,3,5-Trimethylbenzene	**<26.8**	ug/m3	146	26.8	146.4		03/31/17 07:53	108-67-8	
Vinyl chloride	**<28.5**	ug/m3	38.1	28.5	146.4		03/31/17 07:53	75-01-4	
m&p-Xylene	**<115**	ug/m3	259	115	146.4		03/31/17 07:53	179601-23-1	
o-Xylene	**<51.4**	ug/m3	129	51.4	146.4		03/31/17 07:53	95-47-6	

Sample: VP-108D_50.5_20170307 **Lab ID: 10381335021** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

VP-108D_50.5_20170307

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**14.4J**	ug/m3	40.6		16.8		04/02/17 11:06	67-64-1	
Allyl chloride	**0.0J**	ug/m3	26.7		16.8		04/02/17 11:06	107-05-1	
Benzene	**0.0J**	ug/m3	5.5		16.8		04/02/17 11:06	71-43-2	
Bromodichloromethane	**0.0J**	ug/m3	22.8		16.8		04/02/17 11:06	75-27-4	
Bromoform	**0.0J**	ug/m3	35.3		16.8		04/02/17 11:06	75-25-2	
Bromomethane	**0.0J**	ug/m3	13.3		16.8		04/02/17 11:06	74-83-9	
1,3-Butadiene	**0.0J**	ug/m3	7.6		16.8		04/02/17 11:06	106-99-0	
2-Butanone (MEK)	**0.0J**	ug/m3	50.4		16.8		04/02/17 11:06	78-93-3	
Carbon disulfide	**0.0J**	ug/m3	10.6		16.8		04/02/17 11:06	75-15-0	
Carbon tetrachloride	**0.0J**	ug/m3	10.8		16.8		04/02/17 11:06	56-23-5	
Chlorobenzene	**0.0J**	ug/m3	15.8		16.8		04/02/17 11:06	108-90-7	
Chlorodifluoromethane	**0.0J**	ug/m3	12.1		16.8		04/02/17 11:06	75-45-6	
Chloroethane	**0.0J**	ug/m3	9.1		16.8		04/02/17 11:06	75-00-3	
Chloroform	**0.0J**	ug/m3	8.3		16.8		04/02/17 11:06	67-66-3	
Chloromethane	**0.0J**	ug/m3	7.1		16.8		04/02/17 11:06	74-87-3	
Chloropentafluoroethane	**0.0J**	ug/m3	53.9		16.8		04/02/17 11:06	76-15-3	
Cyclohexane	**0.0J**	ug/m3	11.8		16.8		04/02/17 11:06	110-82-7	
1,2-Dibromo-3-chloropropane	**0.0J**	ug/m3	82.5		16.8		04/02/17 11:06	96-12-8	
Dibromochloromethane	**0.0J**	ug/m3	29.1		16.8		04/02/17 11:06	124-48-1	
1,2-Dibromoethane (EDB)	**0.0J**	ug/m3	26.2		16.8		04/02/17 11:06	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_50.5_20170307 **Lab ID: 10381335021** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,2-Dichlorobenzene	**0.0J**	ug/m3	20.5		16.8		04/02/17 11:06	95-50-1	
1,3-Dichlorobenzene	**0.0J**	ug/m3	20.5		16.8		04/02/17 11:06	541-73-1	
1,4-Dichlorobenzene	**0.0J**	ug/m3	20.5		16.8		04/02/17 11:06	106-46-7	
Dichlorodifluoromethane	**0.0J**	ug/m3	17.0		16.8		04/02/17 11:06	75-71-8	
1,1-Dichloroethane	**0.0J**	ug/m3	13.8		16.8		04/02/17 11:06	75-34-3	
1,2-Dichloroethane	**0.0J**	ug/m3	6.9		16.8		04/02/17 11:06	107-06-2	
1,1-Dichloroethene	**0.0J**	ug/m3	13.6		16.8		04/02/17 11:06	75-35-4	
cis-1,2-Dichloroethene	**878**	ug/m3	13.6		16.8		04/02/17 11:06	156-59-2	
trans-1,2-Dichloroethene	**0.0J**	ug/m3	13.6		16.8		04/02/17 11:06	156-60-5	
1,2-Dichloropropane	**0.0J**	ug/m3	15.8		16.8		04/02/17 11:06	78-87-5	
cis-1,3-Dichloropropene	**0.0J**	ug/m3	15.5		16.8		04/02/17 11:06	10061-01-5	
trans-1,3-Dichloropropene	**0.0J**	ug/m3	15.5		16.8		04/02/17 11:06	10061-02-6	
Dichlorotetrafluoroethane	**0.0J**	ug/m3	23.9		16.8		04/02/17 11:06	76-14-2	
Freon 123	**0.0J**	ug/m3	53.4		16.8		04/02/17 11:06	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.0J**	ug/m3	61.5		16.8		04/02/17 11:06	123-91-1	
Ethylbenzene	**3.9J**	ug/m3	14.8		16.8		04/02/17 11:06	100-41-4	
4-Ethyltoluene	**0.0J**	ug/m3	16.8		16.8		04/02/17 11:06	622-96-8	
Hexachloro-1,3-butadiene	**0.0J**	ug/m3	91.1		16.8		04/02/17 11:06	87-68-3	
n-Hexane	**0.0J**	ug/m3	12.1		16.8		04/02/17 11:06	110-54-3	
2-Hexanone	**0.0J**	ug/m3	70.0		16.8		04/02/17 11:06	591-78-6	
Isopropylbenzene (Cumene)	**0.0J**	ug/m3	42.0		16.8		04/02/17 11:06	98-82-8	
Methyl acetate	**0.0J**	ug/m3	25.9		16.8		04/02/17 11:06	79-20-9	
Methylcyclohexane	**0.0J**	ug/m3	13.7		16.8		04/02/17 11:06	108-87-2	
Methylene Chloride	**31.0J**	ug/m3	59.3		16.8		04/02/17 11:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0J**	ug/m3	70.0		16.8		04/02/17 11:06	108-10-1	
Methyl-tert-butyl ether	**0.0J**	ug/m3	61.6		16.8		04/02/17 11:06	1634-04-4	
2-Propanol	**0.0J**	ug/m3	42.0		16.8		04/02/17 11:06	67-63-0	
Styrene	**0.0J**	ug/m3	14.6		16.8		04/02/17 11:06	100-42-5	
1,1,2,2-Tetrachloroethane	**0.0J**	ug/m3	11.7		16.8		04/02/17 11:06	79-34-5	
Tetrachloroethene	**48.8**	ug/m3	11.6		16.8		04/02/17 11:06	127-18-4	
Toluene	**44.8**	ug/m3	12.9		16.8		04/02/17 11:06	108-88-3	
1,2,4-Trichlorobenzene	**0.0J**	ug/m3	63.3		16.8		04/02/17 11:06	120-82-1	
1,1,1-Trichloroethane	**0.0J**	ug/m3	18.6		16.8		04/02/17 11:06	71-55-6	
1,1,2-Trichloroethane	**0.0J**	ug/m3	9.2		16.8		04/02/17 11:06	79-00-5	
Trichloroethene	**33.5**	ug/m3	9.2		16.8		04/02/17 11:06	79-01-6	
Trichlorofluoromethane	**0.0J**	ug/m3	19.2		16.8		04/02/17 11:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	**16.0J**	ug/m3	26.9		16.8		04/02/17 11:06	76-13-1	
1,2,4-Trimethylbenzene	**1.7J**	ug/m3	16.8		16.8		04/02/17 11:06	95-63-6	
1,3,5-Trimethylbenzene	**0.0J**	ug/m3	16.8		16.8		04/02/17 11:06	108-67-8	
Vinyl chloride	**0.0J**	ug/m3	4.4		16.8		04/02/17 11:06	75-01-4	
m&p-Xylene	**23.0J**	ug/m3	29.7		16.8		04/02/17 11:06	179601-23-1	
o-Xylene	**0.0J**	ug/m3	14.8		16.8		04/02/17 11:06	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_60_20170307 **Lab ID: 10381335022** Collected: 03/07/17 12:20 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**20.6**	ug/m3	4.2	1.5	1.75		03/28/17 22:17	67-64-1	
Allyl chloride	**<0.40**	ug/m3	2.8	0.40	1.75		03/28/17 22:17	107-05-1	
Benzene	**0.58**	ug/m3	0.57	0.21	1.75		03/28/17 22:17	71-43-2	
Bromodichloromethane	**<0.34**	ug/m3	2.4	0.34	1.75		03/28/17 22:17	75-27-4	
Bromoform	**<1.6**	ug/m3	3.7	1.6	1.75		03/28/17 22:17	75-25-2	
Bromomethane	**<0.54**	ug/m3	1.4	0.54	1.75		03/28/17 22:17	74-83-9	
1,3-Butadiene	**<0.31**	ug/m3	0.79	0.31	1.75		03/28/17 22:17	106-99-0	
2-Butanone (MEK)	**3.7J**	ug/m3	5.2	0.40	1.75		03/28/17 22:17	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.1	0.18	1.75		03/28/17 22:17	75-15-0	
Carbon tetrachloride	**<0.34**	ug/m3	1.1	0.34	1.75		03/28/17 22:17	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.75		03/28/17 22:17	108-90-7	
Chlorodifluoromethane	**<0.48**	ug/m3	1.3	0.48	1.75		03/28/17 22:17	75-45-6	
Chloroethane	**<0.34**	ug/m3	0.94	0.34	1.75		03/28/17 22:17	75-00-3	
Chloroform	**0.64J**	ug/m3	0.87	0.33	1.75		03/28/17 22:17	67-66-3	
Chloromethane	**<0.19**	ug/m3	0.74	0.19	1.75		03/28/17 22:17	74-87-3	
Chloropentafluoroethane	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 22:17	76-15-3	
Cyclohexane	**<0.55**	ug/m3	1.2	0.55	1.75		03/28/17 22:17	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.6**	ug/m3	8.6	8.6	1.75		03/28/17 22:17	96-12-8	
Dibromochloromethane	**<1.5**	ug/m3	3.0	1.5	1.75		03/28/17 22:17	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.7	1.4	1.75		03/28/17 22:17	106-93-4	
1,2-Dichlorobenzene	**3.5**	ug/m3	2.1	0.90	1.75		03/28/17 22:17	95-50-1	
1,3-Dichlorobenzene	**<0.93**	ug/m3	2.1	0.93	1.75		03/28/17 22:17	541-73-1	
1,4-Dichlorobenzene	**1.3J**	ug/m3	2.1	0.87	1.75		03/28/17 22:17	106-46-7	
Dichlorodifluoromethane	**6.1**	ug/m3	1.8	0.84	1.75		03/28/17 22:17	75-71-8	
1,1-Dichloroethane	**1.2J**	ug/m3	1.4	0.27	1.75		03/28/17 22:17	75-34-3	
1,2-Dichloroethane	**0.51J**	ug/m3	0.72	0.36	1.75		03/28/17 22:17	107-06-2	
1,1-Dichloroethene	**21.7**	ug/m3	1.4	0.42	1.75		03/28/17 22:17	75-35-4	
cis-1,2-Dichloroethene	**1670**	ug/m3	1.4	0.43	1.75		03/28/17 22:17	156-59-2	
cis-1,2-Dichloroethene	**3510**	ug/m3	70.9	21.5	87.5		04/01/17 20:17	156-59-2	
trans-1,2-Dichloroethene	**8.1**	ug/m3	1.4	0.67	1.75		03/28/17 22:17	156-60-5	
1,2-Dichloropropane	**<0.47**	ug/m3	1.6	0.47	1.75		03/28/17 22:17	78-87-5	
cis-1,3-Dichloropropene	**<0.65**	ug/m3	1.6	0.65	1.75		03/28/17 22:17	10061-01-5	
trans-1,3-Dichloropropene	**1.0J**	ug/m3	4.0	0.46	1.75		03/28/17 22:17	10061-02-6	
Dichlorotetrafluoroethane	**<0.54**	ug/m3	2.5	0.54	1.75		03/28/17 22:17	76-14-2	
Freon 123	**<5.6**	ug/m3	5.6	5.6	1.75		03/28/17 22:17	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.62**	ug/m3	6.4	0.62	1.75		03/28/17 22:17	123-91-1	
Ethylbenzene	**5.0**	ug/m3	1.5	0.74	1.75		03/28/17 22:17	100-41-4	
4-Ethyltoluene	**0.96J**	ug/m3	1.8	0.33	1.75		03/28/17 22:17	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.8	1.1	1.75		03/28/17 22:17	87-68-3	
n-Hexane	**2.6**	ug/m3	1.3	0.62	1.75		03/28/17 22:17	110-54-3	
2-Hexanone	**<0.72**	ug/m3	7.3	0.72	1.75		03/28/17 22:17	591-78-6	
Isopropylbenzene (Cumene)	**<0.24**	ug/m3	4.4	0.24	1.75		03/28/17 22:17	98-82-8	
Methyl acetate	**<2.7**	ug/m3	2.7	2.7	1.75		03/28/17 22:17	79-20-9	
Methylcyclohexane	**<0.42**	ug/m3	1.4	0.42	1.75		03/28/17 22:17	108-87-2	
Methylene Chloride	**6.1J**	ug/m3	6.2	0.95	1.75		03/28/17 22:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.38**	ug/m3	7.3	0.38	1.75		03/28/17 22:17	108-10-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_60_20170307 **Lab ID: 10381335022** Collected: 03/07/17 12:20 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Methyl-tert-butyl ether	**<0.53**	ug/m3	6.4	0.53	1.75		03/28/17 22:17	1634-04-4	
2-Propanol	**<0.42**	ug/m3	4.4	0.42	1.75		03/28/17 22:17	67-63-0	
Styrene	**<0.34**	ug/m3	1.5	0.34	1.75		03/28/17 22:17	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.58**	ug/m3	1.2	0.58	1.75		03/28/17 22:17	79-34-5	
Tetrachloroethene	**99.5**	ug/m3	1.2	0.49	1.75		03/28/17 22:17	127-18-4	
Toluene	**111**	ug/m3	1.3	0.27	1.75		03/28/17 22:17	108-88-3	
1,2,4-Trichlorobenzene	**<1.6**	ug/m3	6.6	1.6	1.75		03/28/17 22:17	120-82-1	
1,1,1-Trichloroethane	**6.1**	ug/m3	1.9	0.43	1.75		03/28/17 22:17	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.96	0.43	1.75		03/28/17 22:17	79-00-5	
Trichloroethene	**127**	ug/m3	0.96	0.48	1.75		03/28/17 22:17	79-01-6	
Trichlorofluoromethane	**12.5**	ug/m3	2.0	0.23	1.75		03/28/17 22:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	**413**	ug/m3	2.8	0.53	1.75		03/28/17 22:17	76-13-1	
1,2,4-Trimethylbenzene	**<0.22**	ug/m3	1.7	0.22	1.75		03/28/17 22:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.32**	ug/m3	1.7	0.32	1.75		03/28/17 22:17	108-67-8	
Vinyl chloride	**<0.34**	ug/m3	0.46	0.34	1.75		03/28/17 22:17	75-01-4	
m&p-Xylene	**36.3**	ug/m3	3.1	1.4	1.75		03/28/17 22:17	179601-23-1	
o-Xylene	**1.8**	ug/m3	1.5	0.61	1.75		03/28/17 22:17	95-47-6	

Sample: VP-108D_70_20170307 **Lab ID: 10381335023** Collected: 03/07/17 12:28 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**17.6J**	ug/m3	21.1	7.3	8.75		03/29/17 02:01	67-64-1	
Allyl chloride	**<2.0**	ug/m3	13.9	2.0	8.75		03/29/17 02:01	107-05-1	
Benzene	**<1.1**	ug/m3	2.8	1.1	8.75		03/29/17 02:01	71-43-2	
Bromodichloromethane	**<1.7**	ug/m3	11.9	1.7	8.75		03/29/17 02:01	75-27-4	
Bromoform	**<7.9**	ug/m3	18.4	7.9	8.75		03/29/17 02:01	75-25-2	
Bromomethane	**<2.7**	ug/m3	6.9	2.7	8.75		03/29/17 02:01	74-83-9	
1,3-Butadiene	**<1.5**	ug/m3	3.9	1.5	8.75		03/29/17 02:01	106-99-0	
2-Butanone (MEK)	**<2.0**	ug/m3	26.2	2.0	8.75		03/29/17 02:01	78-93-3	
Carbon disulfide	**<0.88**	ug/m3	5.5	0.88	8.75		03/29/17 02:01	75-15-0	
Carbon tetrachloride	**<1.7**	ug/m3	5.6	1.7	8.75		03/29/17 02:01	56-23-5	
Chlorobenzene	**<1.2**	ug/m3	8.2	1.2	8.75		03/29/17 02:01	108-90-7	
Chlorodifluoromethane	**<2.4**	ug/m3	6.3	2.4	8.75		03/29/17 02:01	75-45-6	
Chloroethane	**<1.7**	ug/m3	4.7	1.7	8.75		03/29/17 02:01	75-00-3	
Chloroform	**<1.7**	ug/m3	4.3	1.7	8.75		03/29/17 02:01	67-66-3	
Chloromethane	**<0.94**	ug/m3	3.7	0.94	8.75		03/29/17 02:01	74-87-3	
Chloropentafluoroethane	**<28.1**	ug/m3	28.1	28.1	8.75		03/29/17 02:01	76-15-3	
Cyclohexane	**<2.8**	ug/m3	6.1	2.8	8.75		03/29/17 02:01	110-82-7	
1,2-Dibromo-3-chloropropane	**<43.0**	ug/m3	43.0	43.0	8.75		03/29/17 02:01	96-12-8	
Dibromochloromethane	**<7.5**	ug/m3	15.1	7.5	8.75		03/29/17 02:01	124-48-1	
1,2-Dibromoethane (EDB)	**<6.8**	ug/m3	13.6	6.8	8.75		03/29/17 02:01	106-93-4	
1,2-Dichlorobenzene	**<4.5**	ug/m3	10.7	4.5	8.75		03/29/17 02:01	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_70_20170307 **Lab ID: 10381335023** Collected: 03/07/17 12:28 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<4.6**	ug/m3	10.7	4.6	8.75		03/29/17 02:01	541-73-1	
1,4-Dichlorobenzene	**<4.4**	ug/m3	10.7	4.4	8.75		03/29/17 02:01	106-46-7	
Dichlorodifluoromethane	**10.3**	ug/m3	8.8	4.2	8.75		03/29/17 02:01	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/m3	7.2	1.4	8.75		03/29/17 02:01	75-34-3	
1,2-Dichloroethane	**<1.8**	ug/m3	3.6	1.8	8.75		03/29/17 02:01	107-06-2	
1,1-Dichloroethene	**4.7J**	ug/m3	7.1	2.1	8.75		03/29/17 02:01	75-35-4	
cis-1,2-Dichloroethene	**535**	ug/m3	7.1	2.2	8.75		03/29/17 02:01	156-59-2	
trans-1,2-Dichloroethene	**<3.4**	ug/m3	7.1	3.4	8.75		03/29/17 02:01	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/m3	8.2	2.4	8.75		03/29/17 02:01	78-87-5	
cis-1,3-Dichloropropene	**<3.2**	ug/m3	8.0	3.2	8.75		03/29/17 02:01	10061-01-5	
trans-1,3-Dichloropropene	**<2.3**	ug/m3	20.2	2.3	8.75		03/29/17 02:01	10061-02-6	
Dichlorotetrafluoroethane	**<2.7**	ug/m3	12.4	2.7	8.75		03/29/17 02:01	76-14-2	
Freon 123	**<27.8**	ug/m3	27.8	27.8	8.75		03/29/17 02:01	306-83-2	
1,4-Dioxane (p-Dioxane)	**<3.1**	ug/m3	32.0	3.1	8.75		03/29/17 02:01	123-91-1	
Ethylbenzene	**6.2J**	ug/m3	7.7	3.7	8.75		03/29/17 02:01	100-41-4	
4-Ethyltoluene	**<1.6**	ug/m3	8.8	1.6	8.75		03/29/17 02:01	622-96-8	
Hexachloro-1,3-butadiene	**<5.7**	ug/m3	19.0	5.7	8.75		03/29/17 02:01	87-68-3	
n-Hexane	**<3.1**	ug/m3	6.3	3.1	8.75		03/29/17 02:01	110-54-3	
2-Hexanone	**<3.6**	ug/m3	36.4	3.6	8.75		03/29/17 02:01	591-78-6	
Isopropylbenzene (Cumene)	**<1.2**	ug/m3	21.9	1.2	8.75		03/29/17 02:01	98-82-8	
Methyl acetate	**39.1**	ug/m3	13.5	13.5	8.75		03/29/17 02:01	79-20-9	
Methylcyclohexane	**<2.1**	ug/m3	7.1	2.1	8.75		03/29/17 02:01	108-87-2	
Methylene Chloride	**<4.7**	ug/m3	30.9	4.7	8.75		03/29/17 02:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.9**	ug/m3	36.4	1.9	8.75		03/29/17 02:01	108-10-1	
Methyl-tert-butyl ether	**<2.7**	ug/m3	32.1	2.7	8.75		03/29/17 02:01	1634-04-4	
2-Propanol	**<2.1**	ug/m3	21.9	2.1	8.75		03/29/17 02:01	67-63-0	
Styrene	**<1.7**	ug/m3	7.6	1.7	8.75		03/29/17 02:01	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.9**	ug/m3	6.1	2.9	8.75		03/29/17 02:01	79-34-5	
Tetrachloroethene	**118**	ug/m3	6.0	2.4	8.75		03/29/17 02:01	127-18-4	
Toluene	**124**	ug/m3	6.7	1.3	8.75		03/29/17 02:01	108-88-3	
1,2,4-Trichlorobenzene	**<8.0**	ug/m3	33.0	8.0	8.75		03/29/17 02:01	120-82-1	
1,1,1-Trichloroethane	**<2.2**	ug/m3	9.7	2.2	8.75		03/29/17 02:01	71-55-6	
1,1,2-Trichloroethane	**<2.2**	ug/m3	4.8	2.2	8.75		03/29/17 02:01	79-00-5	
Trichloroethene	**30.9**	ug/m3	4.8	2.4	8.75		03/29/17 02:01	79-01-6	
Trichlorofluoromethane	**15.7**	ug/m3	10	1.2	8.75		03/29/17 02:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	**342**	ug/m3	14.0	2.6	8.75		03/29/17 02:01	76-13-1	
1,2,4-Trimethylbenzene	**<1.1**	ug/m3	8.7	1.1	8.75		03/29/17 02:01	95-63-6	
1,3,5-Trimethylbenzene	**<1.6**	ug/m3	8.7	1.6	8.75		03/29/17 02:01	108-67-8	
Vinyl chloride	**<1.7**	ug/m3	2.3	1.7	8.75		03/29/17 02:01	75-01-4	
m&p-Xylene	**45.8**	ug/m3	15.5	6.9	8.75		03/29/17 02:01	179601-23-1	
o-Xylene	**<3.1**	ug/m3	7.7	3.1	8.75		03/29/17 02:01	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_50.5_20170307 **Lab ID: 10381335024** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air
VP-108D_50.5_20170307DUP

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**20.6J**	ug/m3	44.2		18.3		04/02/17 12:01	67-64-1	
Allyl chloride	**0.0J**	ug/m3	29.1		18.3		04/02/17 12:01	107-05-1	
Benzene	**0.0J**	ug/m3	5.9		18.3		04/02/17 12:01	71-43-2	
Bromodichloromethane	**0.0J**	ug/m3	24.9		18.3		04/02/17 12:01	75-27-4	
Bromoform	**0.0J**	ug/m3	38.4		18.3		04/02/17 12:01	75-25-2	
Bromomethane	**0.0J**	ug/m3	14.5		18.3		04/02/17 12:01	74-83-9	
1,3-Butadiene	**0.0J**	ug/m3	8.2		18.3		04/02/17 12:01	106-99-0	
2-Butanone (MEK)	**0.0J**	ug/m3	54.9		18.3		04/02/17 12:01	78-93-3	
Carbon disulfide	**0.0J**	ug/m3	11.5		18.3		04/02/17 12:01	75-15-0	
Carbon tetrachloride	**0.0J**	ug/m3	11.7		18.3		04/02/17 12:01	56-23-5	
Chlorobenzene	**0.0J**	ug/m3	17.2		18.3		04/02/17 12:01	108-90-7	
Chlorodifluoromethane	**0.0J**	ug/m3	13.2		18.3		04/02/17 12:01	75-45-6	
Chloroethane	**0.0J**	ug/m3	9.9		18.3		04/02/17 12:01	75-00-3	
Chloroform	**0.0J**	ug/m3	9.1		18.3		04/02/17 12:01	67-66-3	
Chloromethane	**0.0J**	ug/m3	7.7		18.3		04/02/17 12:01	74-87-3	
Chloropentafluoroethane	**0.0J**	ug/m3	58.7		18.3		04/02/17 12:01	76-15-3	
Cyclohexane	**0.0J**	ug/m3	12.8		18.3		04/02/17 12:01	110-82-7	
1,2-Dibromo-3-chloropropane	**0.0J**	ug/m3	89.9		18.3		04/02/17 12:01	96-12-8	
Dibromochloromethane	**0.0J**	ug/m3	31.7		18.3		04/02/17 12:01	124-48-1	
1,2-Dibromoethane (EDB)	**0.0J**	ug/m3	28.5		18.3		04/02/17 12:01	106-93-4	
1,2-Dichlorobenzene	**0.0J**	ug/m3	22.3		18.3		04/02/17 12:01	95-50-1	
1,3-Dichlorobenzene	**0.0J**	ug/m3	22.3		18.3		04/02/17 12:01	541-73-1	
1,4-Dichlorobenzene	**0.0J**	ug/m3	22.3		18.3		04/02/17 12:01	106-46-7	
Dichlorodifluoromethane	**0.0J**	ug/m3	18.5		18.3		04/02/17 12:01	75-71-8	
1,1-Dichloroethane	**0.0J**	ug/m3	15.0		18.3		04/02/17 12:01	75-34-3	
1,2-Dichloroethane	**0.0J**	ug/m3	7.5		18.3		04/02/17 12:01	107-06-2	
1,1-Dichloroethene	**0.0J**	ug/m3	14.8		18.3		04/02/17 12:01	75-35-4	
cis-1,2-Dichloroethene	**692**	ug/m3	14.8		18.3		04/02/17 12:01	156-59-2	
trans-1,2-Dichloroethene	**0.0J**	ug/m3	14.8		18.3		04/02/17 12:01	156-60-5	
1,2-Dichloropropane	**0.0J**	ug/m3	17.2		18.3		04/02/17 12:01	78-87-5	
cis-1,3-Dichloropropene	**0.0J**	ug/m3	16.8		18.3		04/02/17 12:01	10061-01-5	
trans-1,3-Dichloropropene	**0.0J**	ug/m3	16.8		18.3		04/02/17 12:01	10061-02-6	
Dichlorotetrafluoroethane	**0.0J**	ug/m3	26.0		18.3		04/02/17 12:01	76-14-2	
Freon 123	**0.0J**	ug/m3	58.2		18.3		04/02/17 12:01	306-83-2	
1,4-Dioxane (p-Dioxane)	**0.0J**	ug/m3	67.0		18.3		04/02/17 12:01	123-91-1	
Ethylbenzene	**2.8J**	ug/m3	16.1		18.3		04/02/17 12:01	100-41-4	
4-Ethyltoluene	**0.0J**	ug/m3	18.3		18.3		04/02/17 12:01	622-96-8	
Hexachloro-1,3-butadiene	**0.0J**	ug/m3	99.2		18.3		04/02/17 12:01	87-68-3	
n-Hexane	**0.0J**	ug/m3	13.2		18.3		04/02/17 12:01	110-54-3	
2-Hexanone	**0.0J**	ug/m3	76.2		18.3		04/02/17 12:01	591-78-6	
Isopropylbenzene (Cumene)	**0.0J**	ug/m3	45.8		18.3		04/02/17 12:01	98-82-8	
Methyl acetate	**0.0J**	ug/m3	28.2		18.3		04/02/17 12:01	79-20-9	
Methylcyclohexane	**0.0J**	ug/m3	14.9		18.3		04/02/17 12:01	108-87-2	
Methylene Chloride	**10.7J**	ug/m3	64.6		18.3		04/02/17 12:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.0J**	ug/m3	76.2		18.3		04/02/17 12:01	108-10-1	
Methyl-tert-butyl ether	**0.0J**	ug/m3	67.1		18.3		04/02/17 12:01	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-108D_50.5_20170307 **Lab ID: 10381335024** Collected: 03/07/17 12:35 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**0.0J**	ug/m3	45.8		18.3		04/02/17 12:01	67-63-0	
Styrene	**0.0J**	ug/m3	15.9		18.3		04/02/17 12:01	100-42-5	
1,1,2,2-Tetrachloroethane	**0.0J**	ug/m3	12.8		18.3		04/02/17 12:01	79-34-5	
Tetrachloroethene	**33.7**	ug/m3	12.6		18.3		04/02/17 12:01	127-18-4	
Toluene	**27.6**	ug/m3	14.1		18.3		04/02/17 12:01	108-88-3	
1,2,4-Trichlorobenzene	**0.0J**	ug/m3	69.0		18.3		04/02/17 12:01	120-82-1	
1,1,1-Trichloroethane	**0.0J**	ug/m3	20.3		18.3		04/02/17 12:01	71-55-6	
1,1,2-Trichloroethane	**0.0J**	ug/m3	10.1		18.3		04/02/17 12:01	79-00-5	
Trichloroethene	**22.8**	ug/m3	10.1		18.3		04/02/17 12:01	79-01-6	
Trichlorofluoromethane	**0.0J**	ug/m3	20.9		18.3		04/02/17 12:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	**10.3J**	ug/m3	29.3		18.3		04/02/17 12:01	76-13-1	
1,2,4-Trimethylbenzene	**0.0J**	ug/m3	18.3		18.3		04/02/17 12:01	95-63-6	
1,3,5-Trimethylbenzene	**0.0J**	ug/m3	18.3		18.3		04/02/17 12:01	108-67-8	
Vinyl chloride	**0.0J**	ug/m3	4.8		18.3		04/02/17 12:01	75-01-4	
m&p-Xylene	**13.7J**	ug/m3	32.4		18.3		04/02/17 12:01	179601-23-1	
o-Xylene	**0.0J**	ug/m3	16.1		18.3		04/02/17 12:01	95-47-6	

Sample: VP-3D_73_20170307DUP **Lab ID: 10381335025** Collected: 03/07/17 12:04 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.3J**	ug/m3	19.4	6.7	8.05		03/29/17 02:28	67-64-1	
Allyl chloride	**<1.8**	ug/m3	12.8	1.8	8.05		03/29/17 02:28	107-05-1	
Benzene	**<0.98**	ug/m3	2.6	0.98	8.05		03/29/17 02:28	71-43-2	
Bromodichloromethane	**<1.6**	ug/m3	10.9	1.6	8.05		03/29/17 02:28	75-27-4	
Bromoform	**<7.3**	ug/m3	16.9	7.3	8.05		03/29/17 02:28	75-25-2	
Bromomethane	**<2.5**	ug/m3	6.4	2.5	8.05		03/29/17 02:28	74-83-9	
1,3-Butadiene	**<1.4**	ug/m3	3.6	1.4	8.05		03/29/17 02:28	106-99-0	
2-Butanone (MEK)	**<1.8**	ug/m3	24.2	1.8	8.05		03/29/17 02:28	78-93-3	
Carbon disulfide	**<0.81**	ug/m3	5.1	0.81	8.05		03/29/17 02:28	75-15-0	
Carbon tetrachloride	**<1.6**	ug/m3	5.2	1.6	8.05		03/29/17 02:28	56-23-5	
Chlorobenzene	**<1.1**	ug/m3	7.6	1.1	8.05		03/29/17 02:28	108-90-7	
Chlorodifluoromethane	**9.7**	ug/m3	5.8	2.2	8.05		03/29/17 02:28	75-45-6	
Chloroethane	**<1.6**	ug/m3	4.3	1.6	8.05		03/29/17 02:28	75-00-3	
Chloroform	**5.3**	ug/m3	4.0	1.5	8.05		03/29/17 02:28	67-66-3	
Chloromethane	**<0.87**	ug/m3	3.4	0.87	8.05		03/29/17 02:28	74-87-3	
Chloropentafluoroethane	**<25.8**	ug/m3	25.8	25.8	8.05		03/29/17 02:28	76-15-3	
Cyclohexane	**<2.5**	ug/m3	5.6	2.5	8.05		03/29/17 02:28	110-82-7	
1,2-Dibromo-3-chloropropane	**<39.5**	ug/m3	39.5	39.5	8.05		03/29/17 02:28	96-12-8	
Dibromochloromethane	**<6.9**	ug/m3	13.9	6.9	8.05		03/29/17 02:28	124-48-1	
1,2-Dibromoethane (EDB)	**<6.2**	ug/m3	12.6	6.2	8.05		03/29/17 02:28	106-93-4	
1,2-Dichlorobenzene	**<4.1**	ug/m3	9.8	4.1	8.05		03/29/17 02:28	95-50-1	
1,3-Dichlorobenzene	**<4.3**	ug/m3	9.8	4.3	8.05		03/29/17 02:28	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3D_73_20170307DUP **Lab ID: 10381335025** Collected: 03/07/17 12:04 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<4.0**	ug/m3	9.8	4.0	8.05		03/29/17 02:28	106-46-7	
Dichlorodifluoromethane	**7.2J**	ug/m3	8.1	3.9	8.05		03/29/17 02:28	75-71-8	
1,1-Dichloroethane	**<1.3**	ug/m3	6.6	1.3	8.05		03/29/17 02:28	75-34-3	
1,2-Dichloroethane	**<1.7**	ug/m3	3.3	1.7	8.05		03/29/17 02:28	107-06-2	
1,1-Dichloroethene	**<1.9**	ug/m3	6.5	1.9	8.05		03/29/17 02:28	75-35-4	
cis-1,2-Dichloroethene	**18.3**	ug/m3	6.5	2.0	8.05		03/29/17 02:28	156-59-2	
trans-1,2-Dichloroethene	**<3.1**	ug/m3	6.5	3.1	8.05		03/29/17 02:28	156-60-5	
1,2-Dichloropropane	**<2.2**	ug/m3	7.6	2.2	8.05		03/29/17 02:28	78-87-5	
cis-1,3-Dichloropropene	**<3.0**	ug/m3	7.4	3.0	8.05		03/29/17 02:28	10061-01-5	
trans-1,3-Dichloropropene	**<2.1**	ug/m3	18.6	2.1	8.05		03/29/17 02:28	10061-02-6	
Dichlorotetrafluoroethane	**<2.5**	ug/m3	11.4	2.5	8.05		03/29/17 02:28	76-14-2	
Freon 123	**<25.6**	ug/m3	25.6	25.6	8.05		03/29/17 02:28	306-83-2	
1,4-Dioxane (p-Dioxane)	**<2.8**	ug/m3	29.5	2.8	8.05		03/29/17 02:28	123-91-1	
Ethylbenzene	**<3.4**	ug/m3	7.1	3.4	8.05		03/29/17 02:28	100-41-4	
4-Ethyltoluene	**<1.5**	ug/m3	8.0	1.5	8.05		03/29/17 02:28	622-96-8	
Hexachloro-1,3-butadiene	**<5.2**	ug/m3	17.5	5.2	8.05		03/29/17 02:28	87-68-3	
n-Hexane	**<2.9**	ug/m3	5.8	2.9	8.05		03/29/17 02:28	110-54-3	
2-Hexanone	**<3.3**	ug/m3	33.5	3.3	8.05		03/29/17 02:28	591-78-6	
Isopropylbenzene (Cumene)	**<1.1**	ug/m3	20.1	1.1	8.05		03/29/17 02:28	98-82-8	
Methyl acetate	**<12.4**	ug/m3	12.4	12.4	8.05		03/29/17 02:28	79-20-9	
Methylcyclohexane	**<1.9**	ug/m3	6.6	1.9	8.05		03/29/17 02:28	108-87-2	
Methylene Chloride	**<4.4**	ug/m3	28.4	4.4	8.05		03/29/17 02:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.7**	ug/m3	33.5	1.7	8.05		03/29/17 02:28	108-10-1	
Methyl-tert-butyl ether	**<2.4**	ug/m3	29.5	2.4	8.05		03/29/17 02:28	1634-04-4	
2-Propanol	**<1.9**	ug/m3	20.1	1.9	8.05		03/29/17 02:28	67-63-0	
Styrene	**<1.6**	ug/m3	7.0	1.6	8.05		03/29/17 02:28	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.6**	ug/m3	5.6	2.6	8.05		03/29/17 02:28	79-34-5	
Tetrachloroethene	**480**	ug/m3	5.5	2.2	8.05		03/29/17 02:28	127-18-4	
Toluene	**<1.2**	ug/m3	6.2	1.2	8.05		03/29/17 02:28	108-88-3	
1,2,4-Trichlorobenzene	**<7.3**	ug/m3	30.3	7.3	8.05		03/29/17 02:28	120-82-1	
1,1,1-Trichloroethane	**5.6J**	ug/m3	8.9	2.0	8.05		03/29/17 02:28	71-55-6	
1,1,2-Trichloroethane	**<2.0**	ug/m3	4.4	2.0	8.05		03/29/17 02:28	79-00-5	
Trichloroethene	**237**	ug/m3	4.4	2.2	8.05		03/29/17 02:28	79-01-6	
Trichlorofluoromethane	**<1.1**	ug/m3	9.2	1.1	8.05		03/29/17 02:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	**31.8**	ug/m3	12.9	2.4	8.05		03/29/17 02:28	76-13-1	
1,2,4-Trimethylbenzene	**<1.0**	ug/m3	8.0	1.0	8.05		03/29/17 02:28	95-63-6	
1,3,5-Trimethylbenzene	**<1.5**	ug/m3	8.0	1.5	8.05		03/29/17 02:28	108-67-8	
Vinyl chloride	**<1.6**	ug/m3	2.1	1.6	8.05		03/29/17 02:28	75-01-4	
m&p-Xylene	**<6.3**	ug/m3	14.2	6.3	8.05		03/29/17 02:28	179601-23-1	
o-Xylene	**<2.8**	ug/m3	7.1	2.8	8.05		03/29/17 02:28	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_5_20170307DUP **Lab ID: 10381335026** Collected: 03/07/17 12:01 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**32.4**	ug/m3	4.1	1.4	1.68		03/28/17 20:11	67-64-1	
Allyl chloride	**<0.38**	ug/m3	2.7	0.38	1.68		03/28/17 20:11	107-05-1	
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		03/28/17 20:11	71-43-2	
Bromodichloromethane	**<0.33**	ug/m3	2.3	0.33	1.68		03/28/17 20:11	75-27-4	
Bromoform	**<1.5**	ug/m3	3.5	1.5	1.68		03/28/17 20:11	75-25-2	
Bromomethane	**<0.52**	ug/m3	1.3	0.52	1.68		03/28/17 20:11	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.76	0.30	1.68		03/28/17 20:11	106-99-0	
2-Butanone (MEK)	**3.1J**	ug/m3	5.0	0.38	1.68		03/28/17 20:11	78-93-3	
Carbon disulfide	**<0.17**	ug/m3	1.1	0.17	1.68		03/28/17 20:11	75-15-0	
Carbon tetrachloride	**<0.32**	ug/m3	1.1	0.32	1.68		03/28/17 20:11	56-23-5	
Chlorobenzene	**<0.23**	ug/m3	1.6	0.23	1.68		03/28/17 20:11	108-90-7	
Chlorodifluoromethane	**1.8**	ug/m3	1.2	0.46	1.68		03/28/17 20:11	75-45-6	
Chloroethane	**<0.33**	ug/m3	0.91	0.33	1.68		03/28/17 20:11	75-00-3	
Chloroform	**1.3**	ug/m3	0.83	0.32	1.68		03/28/17 20:11	67-66-3	
Chloromethane	**<0.18**	ug/m3	0.71	0.18	1.68		03/28/17 20:11	74-87-3	
Chloropentafluoroethane	**<5.4**	ug/m3	5.4	5.4	1.68		03/28/17 20:11	76-15-3	
Cyclohexane	**<0.53**	ug/m3	1.2	0.53	1.68		03/28/17 20:11	110-82-7	
1,2-Dibromo-3-chloropropane	**<8.2**	ug/m3	8.2	8.2	1.68		03/28/17 20:11	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.9	1.4	1.68		03/28/17 20:11	124-48-1	
1,2-Dibromoethane (EDB)	**<1.3**	ug/m3	2.6	1.3	1.68		03/28/17 20:11	106-93-4	
1,2-Dichlorobenzene	**<0.86**	ug/m3	2.0	0.86	1.68		03/28/17 20:11	95-50-1	
1,3-Dichlorobenzene	**<0.89**	ug/m3	2.0	0.89	1.68		03/28/17 20:11	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/28/17 20:11	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.7	0.81	1.68		03/28/17 20:11	75-71-8	
1,1-Dichloroethane	**<0.26**	ug/m3	1.4	0.26	1.68		03/28/17 20:11	75-34-3	
1,2-Dichloroethane	**<0.34**	ug/m3	0.69	0.34	1.68		03/28/17 20:11	107-06-2	
1,1-Dichloroethene	**<0.40**	ug/m3	1.4	0.40	1.68		03/28/17 20:11	75-35-4	
cis-1,2-Dichloroethene	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 20:11	156-59-2	
trans-1,2-Dichloroethene	**<0.65**	ug/m3	1.4	0.65	1.68		03/28/17 20:11	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.6	0.45	1.68		03/28/17 20:11	78-87-5	
cis-1,3-Dichloropropene	**<0.62**	ug/m3	1.5	0.62	1.68		03/28/17 20:11	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/m3	3.9	0.44	1.68		03/28/17 20:11	10061-02-6	
Dichlorotetrafluoroethane	**<0.52**	ug/m3	2.4	0.52	1.68		03/28/17 20:11	76-14-2	
Freon 123	**<5.3**	ug/m3	5.3	5.3	1.68		03/28/17 20:11	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.59**	ug/m3	6.1	0.59	1.68		03/28/17 20:11	123-91-1	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		03/28/17 20:11	100-41-4	
4-Ethyltoluene	**<0.32**	ug/m3	1.7	0.32	1.68		03/28/17 20:11	622-96-8	
Hexachloro-1,3-butadiene	**<1.1**	ug/m3	3.6	1.1	1.68		03/28/17 20:11	87-68-3	
n-Hexane	**1.5**	ug/m3	1.2	0.60	1.68		03/28/17 20:11	110-54-3	
2-Hexanone	**<0.69**	ug/m3	7.0	0.69	1.68		03/28/17 20:11	591-78-6	
Isopropylbenzene (Cumene)	**<0.23**	ug/m3	4.2	0.23	1.68		03/28/17 20:11	98-82-8	
Methyl acetate	**<2.6**	ug/m3	2.6	2.6	1.68		03/28/17 20:11	79-20-9	
Methylcyclohexane	**<0.41**	ug/m3	1.4	0.41	1.68		03/28/17 20:11	108-87-2	
Methylene Chloride	**114**	ug/m3	5.9	0.91	1.68		03/28/17 20:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.36**	ug/m3	7.0	0.36	1.68		03/28/17 20:11	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		03/28/17 20:11	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_5_20170307DUP **Lab ID: 10381335026** Collected: 03/07/17 12:01 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**2.1J**	ug/m3	4.2	0.40	1.68		03/28/17 20:11	67-63-0	
Styrene	**0.79J**	ug/m3	1.5	0.32	1.68		03/28/17 20:11	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.68		03/28/17 20:11	79-34-5	
Tetrachloroethene	**14.0**	ug/m3	1.2	0.47	1.68		03/28/17 20:11	127-18-4	
Toluene	**<0.26**	ug/m3	1.3	0.26	1.68		03/28/17 20:11	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.3	1.5	1.68		03/28/17 20:11	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.9	0.41	1.68		03/28/17 20:11	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.92	0.41	1.68		03/28/17 20:11	79-00-5	
Trichloroethene	**2.3**	ug/m3	0.92	0.46	1.68		03/28/17 20:11	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.9	0.22	1.68		03/28/17 20:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	**1.0J**	ug/m3	2.7	0.51	1.68		03/28/17 20:11	76-13-1	
1,2,4-Trimethylbenzene	**<0.21**	ug/m3	1.7	0.21	1.68		03/28/17 20:11	95-63-6	
1,3,5-Trimethylbenzene	**<0.31**	ug/m3	1.7	0.31	1.68		03/28/17 20:11	108-67-8	
Vinyl chloride	**<0.33**	ug/m3	0.44	0.33	1.68		03/28/17 20:11	75-01-4	
m&p-Xylene	**<1.3**	ug/m3	3.0	1.3	1.68		03/28/17 20:11	179601-23-1	
o-Xylene	**<0.59**	ug/m3	1.5	0.59	1.68		03/28/17 20:11	95-47-6	

Sample: VP-3_30_20170307 **Lab ID: 10381335027** Collected: 03/07/17 12:36 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<7.6**	ug/m3	22.1	7.6	9.15		03/28/17 23:14	67-64-1	
Allyl chloride	**<2.1**	ug/m3	14.5	2.1	9.15		03/28/17 23:14	107-05-1	
Benzene	**<1.1**	ug/m3	3.0	1.1	9.15		03/28/17 23:14	71-43-2	
Bromodichloromethane	**<1.8**	ug/m3	12.4	1.8	9.15		03/28/17 23:14	75-27-4	
Bromoform	**<8.2**	ug/m3	19.2	8.2	9.15		03/28/17 23:14	75-25-2	
Bromomethane	**<2.8**	ug/m3	7.2	2.8	9.15		03/28/17 23:14	74-83-9	
1,3-Butadiene	**<1.6**	ug/m3	4.1	1.6	9.15		03/28/17 23:14	106-99-0	
2-Butanone (MEK)	**<2.1**	ug/m3	27.4	2.1	9.15		03/28/17 23:14	78-93-3	
Carbon disulfide	**<0.92**	ug/m3	5.8	0.92	9.15		03/28/17 23:14	75-15-0	
Carbon tetrachloride	**<1.8**	ug/m3	5.9	1.8	9.15		03/28/17 23:14	56-23-5	
Chlorobenzene	**<1.2**	ug/m3	8.6	1.2	9.15		03/28/17 23:14	108-90-7	
Chlorodifluoromethane	**<2.5**	ug/m3	6.6	2.5	9.15		03/28/17 23:14	75-45-6	
Chloroethane	**<1.8**	ug/m3	4.9	1.8	9.15		03/28/17 23:14	75-00-3	
Chloroform	**7.2**	ug/m3	4.5	1.7	9.15		03/28/17 23:14	67-66-3	
Chloromethane	**<0.99**	ug/m3	3.8	0.99	9.15		03/28/17 23:14	74-87-3	
Chloropentafluoroethane	**<29.4**	ug/m3	29.4	29.4	9.15		03/28/17 23:14	76-15-3	
Cyclohexane	**<2.9**	ug/m3	6.4	2.9	9.15		03/28/17 23:14	110-82-7	
1,2-Dibromo-3-chloropropane	**<44.9**	ug/m3	44.9	44.9	9.15		03/28/17 23:14	96-12-8	
Dibromochloromethane	**<7.8**	ug/m3	15.8	7.8	9.15		03/28/17 23:14	124-48-1	
1,2-Dibromoethane (EDB)	**<7.1**	ug/m3	14.3	7.1	9.15		03/28/17 23:14	106-93-4	
1,2-Dichlorobenzene	**<4.7**	ug/m3	11.2	4.7	9.15		03/28/17 23:14	95-50-1	
1,3-Dichlorobenzene	**<4.8**	ug/m3	11.2	4.8	9.15		03/28/17 23:14	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Sample: VP-3_30_20170307 **Lab ID: 10381335027** Collected: 03/07/17 12:36 Received: 03/09/17 09:30 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<4.6**	ug/m3	11.2	4.6	9.15		03/28/17 23:14	106-46-7	
Dichlorodifluoromethane	**4.7J**	ug/m3	9.2	4.4	9.15		03/28/17 23:14	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/m3	7.5	1.4	9.15		03/28/17 23:14	75-34-3	
1,2-Dichloroethane	**<1.9**	ug/m3	3.8	1.9	9.15		03/28/17 23:14	107-06-2	
1,1-Dichloroethene	**<2.2**	ug/m3	7.4	2.2	9.15		03/28/17 23:14	75-35-4	
cis-1,2-Dichloroethene	**23.8**	ug/m3	7.4	2.3	9.15		03/28/17 23:14	156-59-2	
trans-1,2-Dichloroethene	**<3.5**	ug/m3	7.4	3.5	9.15		03/28/17 23:14	156-60-5	
1,2-Dichloropropane	**<2.5**	ug/m3	8.6	2.5	9.15		03/28/17 23:14	78-87-5	
cis-1,3-Dichloropropene	**<3.4**	ug/m3	8.4	3.4	9.15		03/28/17 23:14	10061-01-5	
trans-1,3-Dichloropropene	**<2.4**	ug/m3	21.1	2.4	9.15		03/28/17 23:14	10061-02-6	
Dichlorotetrafluoroethane	**<2.8**	ug/m3	13.0	2.8	9.15		03/28/17 23:14	76-14-2	
Freon 123	**<29.1**	ug/m3	29.1	29.1	9.15		03/28/17 23:14	306-83-2	
1,4-Dioxane (p-Dioxane)	**<3.2**	ug/m3	33.5	3.2	9.15		03/28/17 23:14	123-91-1	
Ethylbenzene	**<3.9**	ug/m3	8.1	3.9	9.15		03/28/17 23:14	100-41-4	
4-Ethyltoluene	**<1.7**	ug/m3	9.2	1.7	9.15		03/28/17 23:14	622-96-8	
Hexachloro-1,3-butadiene	**<5.9**	ug/m3	19.8	5.9	9.15		03/28/17 23:14	87-68-3	
n-Hexane	**<3.3**	ug/m3	6.6	3.3	9.15		03/28/17 23:14	110-54-3	
2-Hexanone	**<3.8**	ug/m3	38.1	3.8	9.15		03/28/17 23:14	591-78-6	
Isopropylbenzene (Cumene)	**<1.3**	ug/m3	22.9	1.3	9.15		03/28/17 23:14	98-82-8	
Methyl acetate	**<14.1**	ug/m3	14.1	14.1	9.15		03/28/17 23:14	79-20-9	
Methylcyclohexane	**<2.2**	ug/m3	7.5	2.2	9.15		03/28/17 23:14	108-87-2	
Methylene Chloride	**<5.0**	ug/m3	32.3	5.0	9.15		03/28/17 23:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<2.0**	ug/m3	38.1	2.0	9.15		03/28/17 23:14	108-10-1	
Methyl-tert-butyl ether	**<2.8**	ug/m3	33.5	2.8	9.15		03/28/17 23:14	1634-04-4	
2-Propanol	**<2.2**	ug/m3	22.9	2.2	9.15		03/28/17 23:14	67-63-0	
Styrene	**<1.8**	ug/m3	8.0	1.8	9.15		03/28/17 23:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<3.0**	ug/m3	6.4	3.0	9.15		03/28/17 23:14	79-34-5	
Tetrachloroethene	**172**	ug/m3	6.3	2.5	9.15		03/28/17 23:14	127-18-4	
Toluene	**<1.4**	ug/m3	7.0	1.4	9.15		03/28/17 23:14	108-88-3	
1,2,4-Trichlorobenzene	**<8.3**	ug/m3	34.5	8.3	9.15		03/28/17 23:14	120-82-1	
1,1,1-Trichloroethane	**<2.3**	ug/m3	10.2	2.3	9.15		03/28/17 23:14	71-55-6	
1,1,2-Trichloroethane	**<2.3**	ug/m3	5.0	2.3	9.15		03/28/17 23:14	79-00-5	
Trichloroethene	**83.4**	ug/m3	5.0	2.5	9.15		03/28/17 23:14	79-01-6	
Trichlorofluoromethane	**<1.2**	ug/m3	10.4	1.2	9.15		03/28/17 23:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<2.8**	ug/m3	14.6	2.8	9.15		03/28/17 23:14	76-13-1	
1,2,4-Trimethylbenzene	**<1.1**	ug/m3	9.1	1.1	9.15		03/28/17 23:14	95-63-6	
1,3,5-Trimethylbenzene	**<1.7**	ug/m3	9.1	1.7	9.15		03/28/17 23:14	108-67-8	
Vinyl chloride	**<1.8**	ug/m3	2.4	1.8	9.15		03/28/17 23:14	75-01-4	
m&p-Xylene	**<7.2**	ug/m3	16.2	7.2	9.15		03/28/17 23:14	179601-23-1	
o-Xylene	**<3.2**	ug/m3	8.1	3.2	9.15		03/28/17 23:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Appendix C

Support Documentation

ANALYTE	ORIGINAL VP-3_5	DUPLICATE VP-3_5DUP	RL	RPD	RPD > 50%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
1,1,2-Trichlorotrifluoroethane	1.1	1	2.7	9.524	FALSE	FALSE	FALSE	FALSE
2-Butanone (MEK)	3.9	3.1	5	22.857	FALSE	FALSE	FALSE	FALSE
Acetone	24.3	32.4	4.1	28.571	FALSE	TRUE	TRUE	FALSE
Chloroform	1.7	1.3	0.83	26.667	FALSE	TRUE	FALSE	FALSE
Chloromethane	0.6	0.71	0.71	16.794	FALSE	FALSE	FALSE	FALSE
Dichlorodifluoromethane	2.6	2.7	1.7	3.774	FALSE	FALSE	FALSE	FALSE
n-Hexane	2.9	1.5	1.2	63.636	TRUE	TRUE	FALSE	FALSE
2-Propanol	2.4	2.1	4.2	13.333	FALSE	FALSE	FALSE	FALSE
Methylene Chloride	30.8	114	5.9	114.917	TRUE	TRUE	TRUE	TRUE
Tetrachloroethene	13.8	14	1.2	1.439	FALSE	TRUE	TRUE	FALSE
Toluene	0.97	1.3	1.3	29.075	FALSE	FALSE	FALSE	FALSE
Trichloroethene	1.7	2.3	0.92	30.000	FALSE	FALSE	TRUE	FALSE
Trichlorofluoromethane	1.5	1.5	1.9	0.000	FALSE	FALSE	FALSE	FALSE
Chlorodifluoromethane	1.2	1.8	1.2	40.000	FALSE	FALSE	FALSE	FALSE
Styrene	1.5	0.79	1.5	62.009	TRUE	FALSE	FALSE	FALSE

ANALYTE	ORIGINAL VP-3D_73	DUPLICATE VP-3D_73DUP	RL	RPD	RPD > 50%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
1,1,1-Trichloroethane	5.9	5.6	9.3	5.217	FALSE	FALSE	FALSE	FALSE
1,1,2-Trichlorotrifluoroethane	32.5	31.8	13.4	2.177	FALSE	TRUE	TRUE	FALSE
Acetone	16.4	13.3	20.3	20.875	FALSE	FALSE	FALSE	FALSE
Chlorodifluoromethane	11.7	9.7	6	18.692	FALSE	FALSE	FALSE	FALSE
Chloroform	5.7	5.3	4.2	7.273	FALSE	FALSE	FALSE	FALSE
cis-1,2-Dichloroethene	16.1	18.3	6.8	12.791	FALSE	TRUE	TRUE	FALSE
Dichlorodifluoromethane	7.2	7.2	8.5	0.000	FALSE	FALSE	FALSE	FALSE
Tetrachloroethene	461	480	5.8	4.038	FALSE	TRUE	TRUE	TRUE
Trichloroethene	186	237	4.6	24.113	FALSE	TRUE	TRUE	TRUE

ANALYTE	ORIGINAL 108D_50.5	DUPLICATE 108D_50.5DUP	RL	RPD	RPD > 50%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
1,1,2-Trichlorotrifluoroethane	16	10.3	26.9	43.346	FALSE	FALSE	FALSE	FALSE
1,2,4-Trimethylbenzene	1.7	18.3	16.8	166.000	TRUE	FALSE	FALSE	FALSE
Acetone	14.4	20.6	40.6	35.429	FALSE	FALSE	FALSE	FALSE
cis-1,2-Dichloroethene	878	692	13.6	23.694	FALSE	TRUE	TRUE	TRUE
Ethylbenzene	3.9	2.8	14.8	32.836	FALSE	FALSE	FALSE	FALSE
m&p-Xylene	23	13.7	29.7	50.681	TRUE	FALSE	FALSE	FALSE
Methylene Chloride	31	10.7	59.3	97.362	TRUE	FALSE	FALSE	FALSE
Tetrachloroethene	48.8	33.7	11.6	36.606	FALSE	TRUE	TRUE	FALSE
Toluene	44.8	27.6	12.9	47.514	FALSE	TRUE	TRUE	FALSE
Trichloroethene	33.5	22.8	9.2	38.011	FALSE	TRUE	TRUE	FALSE

10381335

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26257

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE, NJ 08889
Email To: DALLAS.MELOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-05076.44

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☒ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-102_4.5_20170306	6L		3/6/17	1040	3/6/17	1410	-29	-8	2343	00356							X			001
2	LIS-VP-7_30_20170306				1035		1408	-29	-8	1751	00600							X			002
3	VP-107_5_20170306				0930		1308	-29	-8	2027	03760							X			003
4	VP-107_13_20170306				0930		1343	-30	-8	365	05300							X			004
5	VP-107_20_20170306				0930		1350	-30	-6.5	2122	01340							X			005
6	VP-107_33.5_20170306				0930		1341	-30	-8	2127	00410							X			006
7	VP-107_44_20170306				0930		1322	-29	-8	2100	04280							X			007
8	VP-107_60_20170306				0930		1338	-30	-8	975	03560							X			008
9	VP-107_74_20170306			↓	0930	↓	1312	-30	-8	2669	01290							X			009
10	VP-3_5_20170307			3/7/17	0814	3/7/17	1201	-30	-8	2312	00820							X			010
11	VP-3_10_20170307			3/7/17	0814	3/7/17	1235	-28	-9	149	01760							X			011
12	VP-3_20_20170307	↓		3/7/17	~~0814~~ 1005	3/7/17	1351	-29	-8.5	2336	00440							X			012

Comments:

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	3/6/17	1248		3/8/17	12:45
	3/8/17	1345			

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: D. BRANCACCIO

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 3/6/17

ORIGINAL

Pace Analytical®
www.pacelabs.com

10391335

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26258

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE, NJ 08889
Email To: DAVID.MELOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DAVID MELOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-05096.44

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15 X	TO15 Short List*	Pace Lab ID
1	VP-3D_40_20170307	6LC		3/7/17	0814	3/7/17	1200	-30	-8	2664	0033								X		013
2	VP-3D_51_20170307				0814		1155	-28	-8	4666	0597								X		014
3	VP-3D_61_20170307				0814		1153	-29	-8	466	0598								X		015
4	VP-3D_73_20170307				0814		1204	-30	-8	2091	0040								X		016
5	VP-108_5_20170307				0854		1354	-30	-9	805	0187								X		017
6	VP-108_10_20170307				0854		1325	-30	-8	433	0183								X		018
7	VP-108_20_20170307				0854		1209	-29	-7	507	0158								X		019
8	VP-108_29.5_20170307				0854		1244	-30	-8	2822	0145								X		020
9	VP-108D_50.5_20170307				0850		1235	-28	-7	657	0426								X		021
10	VP-108D_60_20170307				0850		1220	-30	-8	2815	0037								X		022
11	VP-108D_70_20170307 SO.5				0850		1228	-30	-8	4841	0103								X		023
12	VP-108D_[illegible]_20170307DUP				0850		1235	-30	-9.5	2143	0051								X		024

Comments :

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	3/8/17	1240	[signature]	3/8/17	12:48
[signature]	3/8/17	13:45			

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

Pace Analytical®
www.pacelabs.com

10396 1335

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26259

Section A Required Client Information:

Company: TETRA TECH
Address: 285 RT 226, SUITE 104E
WHITEHOUSE, NJ, 08889
Email To: DALLAS.MELIOTE@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELIOT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-032044

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☒ mg/m³ ☐ PPBV ☐ PPMV ☐ Other ☐

Report Level: II. ☐ III. ☐ IV. ☐ Other ☐

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	VP-3D_73_20170307DUP	6LC		3/7/17	0819	3/7/17	1204	-29	-7.5	2661	04294							X			025
2	VP-3_5_20170307DUP	6LC		3/7/17	0814	3/7/17	1201	-30	-8	2352	00499							X			026
3	VP-3_30_20170307	6LC		3/7/17	0814	3/7/17	1236	-30	-9	571	03866							X			027
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

* MODIFIED LIST

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	3/8/17	1248		3/8/17	1248
	3/8/17	13:45			

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: D. Brockhoff
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 3/6/17

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: April 04, 2017

General Information:
27 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: 465793

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 2546083)
  - 1,2,4-Trichlorobenzene
  - Hexachloro-1,3-butadiene

QC Batch: 465981

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 2546891)
  - 1,2,4-Trichlorobenzene
  - Hexachloro-1,3-butadiene

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 465981

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2546891)
  - Chloropentafluoroethane

QC Batch: 466603

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2549872)
  - 1,1,2-Trichlorotrifluoroethane
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - 2-Butanone (MEK)
  - 2-Propanol
  - Acetone
  - Bromomethane
  - Carbon disulfide
  - Carbon tetrachloride
  - Chloroform
  - Methyl-tert-butyl ether
  - Trichlorofluoromethane

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: April 04, 2017

QC Batch: 466603

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- cis-1,2-Dichloroethene
- n-Hexane
- trans-1,2-Dichloroethene

- VP-107_44_20170306 (Lab ID: 10381335007)
  - Chloroform
  - cis-1,2-Dichloroethene
- VP-108_29.5_20170307 (Lab ID: 10381335020)
  - Chloroform
  - trans-1,2-Dichloroethene
- VP-3D_40_20170307 (Lab ID: 10381335013)
  - 1,1,2-Trichlorotrifluoroethane
  - 2-Butanone (MEK)
  - 2-Propanol
  - Acetone
  - Carbon disulfide
  - Chloroform
  - Trichlorofluoromethane
  - cis-1,2-Dichloroethene
  - n-Hexane
- VP-3_10_20170307 (Lab ID: 10381335011)
  - 1,1,2-Trichlorotrifluoroethane
  - Acetone
  - Chloroform
  - Trichlorofluoromethane
  - n-Hexane

QC Batch: 466636

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2550308)
  - Chloroform
  - trans-1,3-Dichloropropene

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 465793

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- LCS (Lab ID: 2546083)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: April 04, 2017

QC Batch: 465793

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- 1,2,4-Trichlorobenzene
- 2-Propanol
- Hexachloro-1,3-butadiene

QC Batch: 466603

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- LCS (Lab ID: 2549872)
  - 1,1,2-Trichlorotrifluoroethane
  - 2-Butanone (MEK)
  - 2-Propanol
  - Acetone
  - Chloroform
  - Trichlorofluoromethane
  - cis-1,2-Dichloroethene
  - n-Hexane
  - trans-1,2-Dichloroethene

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

- LCS (Lab ID: 2549872)
  - 1,1-Dichloroethane
  - 1,1-Dichloroethene
  - Bromomethane
  - Methyl-tert-butyl ether

QC Batch: 466636

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- LCS (Lab ID: 2550308)
  - Chloroform

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 465793

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure. This analyte was not present in the laboratory control sample due to the second source standard being used for the LCS.

- LCS (Lab ID: 2546083)
  - 1,2-Dibromo-3-chloropropane

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: April 04, 2017

Analyte Comments:

QC Batch: 465793

3M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.This analyte was not present in the laboratory control sample due to the second source standard being used for the LCS.

- LCS (Lab ID: 2546083)
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.

- L15-VP-7_30_20170306 (Lab ID: 10381335002)
  - cis-1,2-Dichloroethene

QC Batch: 465981

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2546891)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.

- VP-107_20_20170306 (Lab ID: 10381335005)
  - Trichloroethene
- VP-107_33.5_20170306 (Lab ID: 10381335006)
  - Trichloroethene
- VP-107_60_20170306 (Lab ID: 10381335008)
  - Trichloroethene

QC Batch: 466603

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2549872)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

A3: The sample was analyzed by serial dilution.

- VP-107_44_20170306 (Lab ID: 10381335007)
  - cis-1,2-Dichloroethene
  - 1,1,2-Trichlorotrifluoroethane
  - Trichloroethene

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: April 04, 2017

Analyte Comments:

QC Batch: 466636

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2550308)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10381335001
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335002
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335003
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335004
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335005
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335006
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335007
[1] 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335008
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335009
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335010
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

SAMPLE QUALIFIERS

Sample: 10381335011
[1] 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335012
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335013
[1] 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335014
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335015
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335016
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335017
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335018
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335019
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335020
[1] This result is reported from a serial dilution.
[2] 1,2 Difluoroethane (CAS # 624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335021
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335022
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335023
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335024
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335025
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335026
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10381335027
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

ANALYTE QUALIFIERS

1M This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
2M This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure. This analyte was not present in the laboratory control sample due to the second source standard being used for the LCS.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

ANALYTE QUALIFIERS

3M	This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.This analyte was not present in the laboratory control sample due to the second source standard being used for the LCS.
A3	The sample was analyzed by serial dilution.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10381335001	VP-102_4.5_20170306	Air	03/06/17 14:10	03/09/17 09:30
10381335002	L15-VP-7_30_20170306	Air	03/06/17 14:08	03/09/17 09:30
10381335003	VP-107_5_20170306	Air	03/06/17 13:08	03/09/17 09:30
10381335004	VP-107_13_20170306	Air	03/06/17 13:43	03/09/17 09:30
10381335005	VP-107_20_20170306	Air	03/06/17 13:50	03/09/17 09:30
10381335006	VP-107_33.5_20170306	Air	03/06/17 13:41	03/09/17 09:30
10381335007	VP-107_44_20170306	Air	03/06/17 13:22	03/09/17 09:30
10381335008	VP-107_60_20170306	Air	03/06/17 13:38	03/09/17 09:30
10381335009	VP-107_74_20170306	Air	03/06/17 13:12	03/09/17 09:30
10381335010	VP-3_5_20170307	Air	03/07/17 12:01	03/09/17 09:30
10381335011	VP-3_10_20170307	Air	03/07/17 12:35	03/09/17 09:30
10381335012	VP-3_20_20170307	Air	03/07/17 13:51	03/09/17 09:30
10381335013	VP-3D_40_20170307	Air	03/07/17 12:00	03/09/17 09:30
10381335014	VP-3D_51_20170307	Air	03/07/17 11:55	03/09/17 09:30
10381335015	VP-3D_61_20170307	Air	03/07/17 11:53	03/09/17 09:30
10381335016	VP-3D_73_20170307	Air	03/07/17 12:04	03/09/17 09:30
10381335017	VP-108_5_20170307	Air	03/07/17 13:54	03/09/17 09:30
10381335018	VP-108_10_20170307	Air	03/07/17 13:25	03/09/17 09:30
10381335019	VP-108_20_20170307	Air	03/07/17 12:09	03/09/17 09:30
10381335020	VP-108_29.5_20170307	Air	03/07/17 12:44	03/09/17 09:30
10381335021	VP-108D_50.5_20170307	Air	03/07/17 12:35	03/09/17 09:30
10381335022	VP-108D_60_20170307	Air	03/07/17 12:20	03/09/17 09:30
10381335023	VP-108D_70_20170307	Air	03/07/17 12:28	03/09/17 09:30
10381335024	VP-108D_50.5_20170307	Air	03/07/17 12:35	03/09/17 09:30
10381335025	VP-3D_73_20170307DUP	Air	03/07/17 12:04	03/09/17 09:30
10381335026	VP-3_5_20170307DUP	Air	03/07/17 12:01	03/09/17 09:30
10381335027	VP-3_30_20170307	Air	03/07/17 12:36	03/09/17 09:30
10381335028	Unused#2660	Air	03/06/17 00:00	03/09/17 09:30
10381335029	Unused#2145	Air	03/06/17 00:00	03/09/17 09:30
10381335030	Unused#0511	Air	03/06/17 00:00	03/09/17 09:30
10381335031	Unused#2149	Air	03/06/17 00:00	03/09/17 09:30
10381335032	Unused#0123	Air	03/06/17 00:00	03/09/17 09:30

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 465793 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08623_28019.D Lab Sample ID: 2546082
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 19:49
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-102_4.5_20170306	10381335001	08636.D	02:50
02	L15-VP-7_30_20170306	10381335002	08637.D	03:22
03	VP-107_5_20170306	10381335003	08638.D	03:53

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

QC Batch: 465793 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381335001, 10381335002, 10381335003

METHOD BLANK: 2546082 Matrix: Air
Associated Lab Samples: 10381335001, 10381335002, 10381335003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/27/17 19:49	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/27/17 19:49	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/27/17 19:49	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/27/17 19:49	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/27/17 19:49	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/27/17 19:49	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/27/17 19:49	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/27/17 19:49	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/27/17 19:49	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/27/17 19:49	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/27/17 19:49	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/27/17 19:49	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/27/17 19:49	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/27/17 19:49	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/27/17 19:49	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/27/17 19:49	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/27/17 19:49	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/27/17 19:49	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/27/17 19:49	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/27/17 19:49	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/27/17 19:49	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/27/17 19:49	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/27/17 19:49	
Acetone	ug/m3	<0.83	2.4	0.83	03/27/17 19:49	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/27/17 19:49	
Benzene	ug/m3	<0.12	0.32	0.12	03/27/17 19:49	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/27/17 19:49	
Bromoform	ug/m3	<0.90	2.1	0.90	03/27/17 19:49	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/27/17 19:49	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/27/17 19:49	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/27/17 19:49	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/27/17 19:49	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/27/17 19:49	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/27/17 19:49	
Chloroform	ug/m3	<0.19	0.50	0.19	03/27/17 19:49	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/27/17 19:49	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/27/17 19:49	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/27/17 19:49	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/27/17 19:49	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/27/17 19:49	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/27/17 19:49	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

METHOD BLANK: 2546082 Matrix: Air
Associated Lab Samples: 10381335001, 10381335002, 10381335003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/27/17 19:49	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/27/17 19:49	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/27/17 19:49	
Freon 123	ug/m3	<3.2	3.2	3.2	03/27/17 19:49	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/27/17 19:49	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/27/17 19:49	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/27/17 19:49	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/27/17 19:49	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/27/17 19:49	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/27/17 19:49	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/27/17 19:49	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/27/17 19:49	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/27/17 19:49	
Styrene	ug/m3	<0.19	0.87	0.19	03/27/17 19:49	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/27/17 19:49	
Toluene	ug/m3	<0.15	0.77	0.15	03/27/17 19:49	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/27/17 19:49	
trans-1,3-Dichloropropene	ug/m3	<0.26	2.3	0.26	03/27/17 19:49	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/27/17 19:49	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/27/17 19:49	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/27/17 19:49	

LABORATORY CONTROL SAMPLE: 2546083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	58.2	63.2	108	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	74.7	84.1	113	70-130	
1,1,2-Trichloroethane	ug/m3	59.3	64.9	109	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.8	89.2	109	70-130	
1,1-Dichloroethane	ug/m3	43.6	47.8	110	70-130	
1,1-Dichloroethene	ug/m3	42.7	45.9	108	70-130	
1,2,4-Trichlorobenzene	ug/m3	74.7	114	152	60-150	L1,SS
1,2,4-Trimethylbenzene	ug/m3	51.5	60.5	118	70-136	
1,2-Dibromo-3-chloropropane	ug/m3		27.4			2M
1,2-Dibromoethane (EDB)	ug/m3	83.6	86.3	103	70-130	
1,2-Dichlorobenzene	ug/m3	63.6	71.1	112	70-139	
1,2-Dichloroethane	ug/m3	44	46.8	106	70-130	
1,2-Dichloropropane	ug/m3	50.7	55.7	110	70-131	
1,3,5-Trimethylbenzene	ug/m3	51.5	58.2	113	70-133	
1,3-Butadiene	ug/m3	23.4	26.6	114	70-130	
1,3-Dichlorobenzene	ug/m3	61.7	68.5	111	70-144	
1,4-Dichlorobenzene	ug/m3	63.6	71.5	112	70-139	
1,4-Dioxane (p-Dioxane)	ug/m3	38.8	43.7	113	65-149	
2-Butanone (MEK)	ug/m3	32.4	31.7	98	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

LABORATORY CONTROL SAMPLE: 2546083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	44.6	56.5	127	70-138	
2-Propanol	ug/m3	25	33.6	135	70-130	L1
4-Ethyltoluene	ug/m3	49.5	58.3	118	70-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	44.6	54.8	123	70-130	
Acetone	ug/m3	25.1	31.1	124	64-130	
Allyl chloride	ug/m3	35.3	43.7	124	60-147	
Benzene	ug/m3	34.7	37.3	107	70-130	
Bromodichloromethane	ug/m3	72.2	82.8	115	70-134	
Bromoform	ug/m3	116	124	107	70-150	
Bromomethane	ug/m3	39.1	44.3	113	70-130	
Carbon disulfide	ug/m3	33.2	41.0	123	70-134	
Carbon tetrachloride	ug/m3	68.4	60.1	88	68-150	
Chlorobenzene	ug/m3	50.1	50.6	101	70-132	
Chlorodifluoromethane	ug/m3	38.8	40.9	105	67-134	
Chloroethane	ug/m3	26.3	31.3	119	70-132	
Chloroform	ug/m3	51.1	65.4	128	70-130	
Chloromethane	ug/m3	21.4	24.3	113	70-130	
Chloropentafluoroethane	ug/m3		<3.2			3M
cis-1,2-Dichloroethene	ug/m3	43.9	46.4	106	70-133	
cis-1,3-Dichloropropene	ug/m3	51.7	56.2	109	70-137	
Cyclohexane	ug/m3	37.1	39.0	105	70-130	
Dibromochloromethane	ug/m3	97	96.9	100	70-144	
Dichlorodifluoromethane	ug/m3	52.8	53.7	102	70-130	
Dichlorotetrafluoroethane	ug/m3	69.6	80.4	115	70-130	
Ethylbenzene	ug/m3	47.7	49.0	103	70-134	
Freon 123	ug/m3		<3.2			3M
Hexachloro-1,3-butadiene	ug/m3	109	187	170	45-150	L1,SS
Isopropylbenzene (Cumene)	ug/m3	51.5	55.6	108	70-140	
m&p-Xylene	ug/m3	47.7	53.7	113	70-130	
Methyl acetate	ug/m3		5.6			3M
Methyl-tert-butyl ether	ug/m3	38.8	44.6	115	66-148	
Methylcyclohexane	ug/m3	43.7	46.4	106	70-137	
Methylene Chloride	ug/m3	39.2	46.2	118	67-133	
n-Hexane	ug/m3	38.7	40.6	105	67-132	
o-Xylene	ug/m3	47.2	48.9	103	70-130	
Styrene	ug/m3	45.5	50.5	111	70-139	
Tetrachloroethene	ug/m3	72.4	71.3	98	70-130	
Toluene	ug/m3	41.4	45.2	109	70-130	
trans-1,2-Dichloroethene	ug/m3	41.9	47.9	114	70-131	
trans-1,3-Dichloropropene	ug/m3	48.4	51.2	106	70-142	
Trichloroethene	ug/m3	57.9	63.8	110	70-130	
Trichlorofluoromethane	ug/m3	58.8	65.8	112	70-130	
Vinyl chloride	ug/m3	27	31.4	116	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 465981 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08708_28028.D Lab Sample ID: 2546890
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 12:52
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-107_13_20170306	10381335004	08717.D	17:33
02	VP-3_5_20170307	10381335010	08719.D	18:36
03	VP-108_5_20170307	10381335017	08720.D	19:08
04	VP-3_5_20170307DUP	10381335026	08722.D	20:11
05	VP-108_10_20170307	10381335018	08723.D	20:43
06	VP-108_20_20170307	10381335019	08724.D	21:14
07	VP-3_20_20170307	10381335012	08725.D	21:46
08	VP-108D_60_20170307	10381335022	08726.D	22:17
09	VP-3_30_20170307	10381335027	08728.D	23:14
10	VP-3D_61_20170307	10381335015	08729.D	23:42
11	VP-3D_51_20170307	10381335014	08732.D	01:05
12	VP-3D_73_20170307	10381335016	08733.D	01:33
13	VP-108D_70_20170307	10381335023	08734.D	02:01
14	VP-3D_73_20170307DUP	10381335025	08735.D	02:28
15	VP-107_33.5_20170306	10381335006	08736.D	02:57
16	VP-107_60_20170306	10381335008	08737.D	03:25
17	VP-107_74_20170306	10381335009	08738.D	03:53
18	VP-107_20_20170306	10381335005	08739.D	04:20

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

QC Batch: 465981 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381335004, 10381335005, 10381335006, 10381335008, 10381335009, 10381335010, 10381335012, 10381335014, 10381335015, 10381335016, 10381335017, 10381335018, 10381335019, 10381335022, 10381335023, 10381335025, 10381335026, 10381335027

METHOD BLANK: 2546890 Matrix: Air
Associated Lab Samples: 10381335004, 10381335005, 10381335006, 10381335008, 10381335009, 10381335010, 10381335012, 10381335014, 10381335015, 10381335016, 10381335017, 10381335018, 10381335019, 10381335022, 10381335023, 10381335025, 10381335026, 10381335027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/28/17 12:52	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/28/17 12:52	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/28/17 12:52	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/28/17 12:52	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/28/17 12:52	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/28/17 12:52	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/28/17 12:52	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/28/17 12:52	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/28/17 12:52	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/28/17 12:52	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/28/17 12:52	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/28/17 12:52	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/28/17 12:52	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/28/17 12:52	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/28/17 12:52	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/28/17 12:52	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/28/17 12:52	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/28/17 12:52	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/28/17 12:52	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/28/17 12:52	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/28/17 12:52	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/28/17 12:52	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/28/17 12:52	
Acetone	ug/m3	<0.83	2.4	0.83	03/28/17 12:52	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/28/17 12:52	
Benzene	ug/m3	<0.12	0.32	0.12	03/28/17 12:52	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/28/17 12:52	
Bromoform	ug/m3	<0.90	2.1	0.90	03/28/17 12:52	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/28/17 12:52	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/28/17 12:52	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/28/17 12:52	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/28/17 12:52	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/28/17 12:52	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/28/17 12:52	
Chloroform	ug/m3	<0.19	0.50	0.19	03/28/17 12:52	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/28/17 12:52	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/28/17 12:52	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/28/17 12:52	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

METHOD BLANK: 2546890 Matrix: Air

Associated Lab Samples: 10381335004, 10381335005, 10381335006, 10381335008, 10381335009, 10381335010, 10381335012, 10381335014, 10381335015, 10381335016, 10381335017, 10381335018, 10381335019, 10381335022, 10381335023, 10381335025, 10381335026, 10381335027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/28/17 12:52	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/28/17 12:52	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/28/17 12:52	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/28/17 12:52	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/28/17 12:52	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/28/17 12:52	
Freon 123	ug/m3	<3.2	3.2	3.2	03/28/17 12:52	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/28/17 12:52	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/28/17 12:52	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/28/17 12:52	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/28/17 12:52	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/28/17 12:52	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/28/17 12:52	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/28/17 12:52	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/28/17 12:52	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/28/17 12:52	
Styrene	ug/m3	<0.19	0.87	0.19	03/28/17 12:52	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/28/17 12:52	
Toluene	ug/m3	<0.15	0.77	0.15	03/28/17 12:52	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/28/17 12:52	
trans-1,3-Dichloropropene	ug/m3	<0.26	2.3	0.26	03/28/17 12:52	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/28/17 12:52	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/28/17 12:52	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/28/17 12:52	

LABORATORY CONTROL SAMPLE: 2546891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	66.5	120	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	84.5	121	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	66.8	120	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	91.3	117	70-130	
1,1-Dichloroethane	ug/m3	41.1	49.4	120	70-130	
1,1-Dichloroethene	ug/m3	40.3	48.2	120	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	83.0	110	60-150	SS
1,2,4-Trimethylbenzene	ug/m3	50	61.3	123	70-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	105	107		1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	91.8	118	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	70.8	116	70-139	
1,2-Dichloroethane	ug/m3	41.1	49.2	120	70-130	
1,2-Dichloropropane	ug/m3	47	56.8	121	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	59.5	119	70-133	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

LABORATORY CONTROL SAMPLE: 2546891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Butadiene	ug/m3	22.5	28.6	127	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	69.2	113	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	71.5	117	70-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	44.7	122	65-149	
2-Butanone (MEK)	ug/m3	30	32.7	109	70-130	
2-Hexanone	ug/m3	104	126	121	70-138	
2-Propanol	ug/m3	125	150	120	70-130	
4-Ethyltoluene	ug/m3	50	61.2	122	70-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	126	121	70-130	
Acetone	ug/m3	121	143	119	64-130	
Allyl chloride	ug/m3	79.5	83.4	105	60-147	
Benzene	ug/m3	32.5	38.2	118	70-130	
Bromodichloromethane	ug/m3	68.1	86.7	127	70-134	
Bromoform	ug/m3	105	132	126	70-150	
Bromomethane	ug/m3	39.5	48.0	122	70-130	
Carbon disulfide	ug/m3	31.6	37.4	118	70-134	
Carbon tetrachloride	ug/m3	64	78.9	123	68-150	
Chlorobenzene	ug/m3	46.8	53.5	114	70-132	
Chlorodifluoromethane	ug/m3	36	43.5	121	67-134	
Chloroethane	ug/m3	26.8	33.6	125	70-132	
Chloroform	ug/m3	49.6	59.3	120	70-130	
Chloromethane	ug/m3	21	26.2	125	70-130	
Chloropentafluoroethane	ug/m3	64.2	<3.2	0		1M,CH
cis-1,2-Dichloroethene	ug/m3	40.3	47.3	117	70-133	
cis-1,3-Dichloropropene	ug/m3	46.1	57.3	124	70-137	
Cyclohexane	ug/m3	35	40.7	116	70-130	
Dibromochloromethane	ug/m3	86.6	107	123	70-144	
Dichlorodifluoromethane	ug/m3	50.3	57.6	115	70-130	
Dichlorotetrafluoroethane	ug/m3	71	86.8	122	70-130	
Ethylbenzene	ug/m3	44.1	50.9	115	70-134	
Freon 123	ug/m3	63.6	74.9	118		1M
Hexachloro-1,3-butadiene	ug/m3	108	128	118	45-150	SS
Isopropylbenzene (Cumene)	ug/m3	50	57.4	115	70-140	
m&p-Xylene	ug/m3	88.3	100	114	70-130	
Methyl acetate	ug/m3	30.8	36.7	119		1M
Methyl-tert-butyl ether	ug/m3	91.6	107	117	66-148	
Methylcyclohexane	ug/m3	40.8	48.2	118	70-137	
Methylene Chloride	ug/m3	177	207	117	67-133	
n-Hexane	ug/m3	35.8	42.1	117	67-132	
o-Xylene	ug/m3	44.1	50.2	114	70-130	
Styrene	ug/m3	43.3	52.2	121	70-139	
Tetrachloroethene	ug/m3	68.9	74.1	107	70-130	
Toluene	ug/m3	38.3	46.4	121	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	47.4	118	70-131	
trans-1,3-Dichloropropene	ug/m3	46.1	52.0	113	70-142	
Trichloroethene	ug/m3	54.6	65.5	120	70-130	
Trichlorofluoromethane	ug/m3	57.1	70.1	123	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

LABORATORY CONTROL SAMPLE: 2546891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/m3	26	33.7	130	70-130	

SAMPLE DUPLICATE: 2547455 — Sample VP-107_13_20170306

Parameter	Units	10381335004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.72J	<0.53		25	
1,1-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<1.6	<1.6		25	
1,2,4-Trimethylbenzene	ug/m3	1.1J	0.98J	11.5	25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.6	<8.6		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4		25	
1,2-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,2-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	<0.32	<0.32		25	
1,3-Butadiene	ug/m3	<0.31	<0.31		25	
1,3-Dichlorobenzene	ug/m3	<0.93	<0.93		25	
1,4-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.62	<0.62		25	
2-Butanone (MEK)	ug/m3	6.6	6.2	6	25	
2-Hexanone	ug/m3	<0.72	<0.72		25	
2-Propanol	ug/m3	3.6J	3.6J	0	25	
4-Ethyltoluene	ug/m3	<0.33	<0.33		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.38	<0.38		25	
Acetone	ug/m3	86.2	85.5	1	25	
Allyl chloride	ug/m3	<0.40	<0.40		25	
Benzene	ug/m3	0.31J	0.29J	6.667	25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<1.6	<1.6		25	
Bromomethane	ug/m3	<0.54	<0.54		25	
Carbon disulfide	ug/m3	0.62J	0.58J	6.667	25	
Carbon tetrachloride	ug/m3	<0.34	<0.34		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.48	<0.48		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	2.3	1.9	16	25	
Chloromethane	ug/m3	<0.19	<0.19		25	
Chloropentafluoroethane	ug/m3	<5.6	<5.6		25	
cis-1,2-Dichloroethene	ug/m3	<0.43	<0.43		25	
cis-1,3-Dichloropropene	ug/m3	<0.65	<0.65		25	
Cyclohexane	ug/m3	<0.55	<0.55		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

SAMPLE DUPLICATE: 2547455

Parameter	Units	10381335004 Result	Dup Result	RPD	Max RPD	Qualifiers
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	2.8	2.6	7	25	
Dichlorotetrafluoroethane	ug/m3	<0.54	<0.54		25	
Ethylbenzene	ug/m3	<0.74	<0.74		25	
Freon 123	ug/m3	<5.6	<5.6		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.24	<0.24		25	
m&p-Xylene	ug/m3	1.6J	1.6J	0	25	
Methyl acetate	ug/m3	<2.7	<2.7		25	
Methyl-tert-butyl ether	ug/m3	<0.53	<0.53		25	
Methylcyclohexane	ug/m3	<0.42	<0.42		25	
Methylene Chloride	ug/m3	9.3	7.4	23	25	
n-Hexane	ug/m3	2.4	2.3	5	25	
o-Xylene	ug/m3	0.84J	0.84J	0	25	
Styrene	ug/m3	<0.34	<0.34		25	
Tetrachloroethene	ug/m3	<0.49	<0.49		25	
Toluene	ug/m3	3.6	3.5	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.67	<0.67		25	
trans-1,3-Dichloropropene	ug/m3	<0.46	<0.46		25	
Trichloroethene	ug/m3	53.0	51.2	4	25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J	0	25	
Vinyl chloride	ug/m3	<0.34	<0.34		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 466603 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08934_28049.D Lab Sample ID: 2549871
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 04:29
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-3_10_20170307	10381335011	08936.D	05:31
02	VP-3D_40_20170307	10381335013	08937.D	06:02
03	VP-107_44_20170306	10381335007	08938.D	06:30
04	VP-108_29.5_20170307	10381335020	08941.D	07:53
05	VP-108_29.5_20170307 DL	10381335020	09127.D	20:45

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

QC Batch: 466603 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381335007, 10381335011, 10381335013, 10381335020

METHOD BLANK: 2549871 Matrix: Air
Associated Lab Samples: 10381335007, 10381335011, 10381335013, 10381335020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/31/17 04:29	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/31/17 04:29	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/31/17 04:29	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/31/17 04:29	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/31/17 04:29	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/31/17 04:29	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/31/17 04:29	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/31/17 04:29	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/31/17 04:29	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/31/17 04:29	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/31/17 04:29	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/31/17 04:29	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/31/17 04:29	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/31/17 04:29	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/31/17 04:29	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/31/17 04:29	
1,4-Dichlorobenzene	ug/m3	<0.50	3.1	0.50	03/31/17 04:29	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/31/17 04:29	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/31/17 04:29	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/31/17 04:29	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/31/17 04:29	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/31/17 04:29	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/31/17 04:29	
Acetone	ug/m3	<0.83	2.4	0.83	03/31/17 04:29	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/31/17 04:29	
Benzene	ug/m3	<0.12	0.32	0.12	03/31/17 04:29	
Bromodichloromethane	ug/m3	<0.19	6.8	0.19	03/31/17 04:29	
Bromoform	ug/m3	<0.90	2.1	0.90	03/31/17 04:29	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/31/17 04:29	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/31/17 04:29	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/31/17 04:29	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/31/17 04:29	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/31/17 04:29	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/31/17 04:29	
Chloroform	ug/m3	<0.19	0.50	0.19	03/31/17 04:29	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/31/17 04:29	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/31/17 04:29	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/31/17 04:29	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/31/17 04:29	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/31/17 04:29	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/31/17 04:29	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

METHOD BLANK: 2549871 Matrix: Air
Associated Lab Samples: 10381335007, 10381335011, 10381335013, 10381335020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/31/17 04:29	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/31/17 04:29	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/31/17 04:29	
Freon 123	ug/m3	<3.2	3.2	3.2	03/31/17 04:29	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/31/17 04:29	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/31/17 04:29	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/31/17 04:29	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/31/17 04:29	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/31/17 04:29	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/31/17 04:29	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/31/17 04:29	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/31/17 04:29	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/31/17 04:29	
Styrene	ug/m3	<0.19	0.87	0.19	03/31/17 04:29	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/31/17 04:29	
Toluene	ug/m3	<0.15	0.77	0.15	03/31/17 04:29	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/31/17 04:29	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/31/17 04:29	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/31/17 04:29	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/31/17 04:29	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/31/17 04:29	

LABORATORY CONTROL SAMPLE: 2549872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	70.6	127	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	87.7	126	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	66.2	119	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	111	143	70-130	CH,L1
1,1-Dichloroethane	ug/m3	41.1	60.6	147	70-130	CH,L3
1,1-Dichloroethene	ug/m3	40.3	54.5	135	70-130	CH,L3
1,2,4-Trichlorobenzene	ug/m3	75.4	73.9	98	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	61.6	123	70-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	98.6	100		1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	93.4	120	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	63.4	104	70-139	
1,2-Dichloroethane	ug/m3	41.1	48.7	118	70-130	
1,2-Dichloropropane	ug/m3	47	55.7	119	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	61.5	123	70-133	
1,3-Butadiene	ug/m3	22.5	27.8	123	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	62.9	103	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	66.3	108	70-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	43.3	118	65-149	
2-Butanone (MEK)	ug/m3	30	43.7	146	70-130	CH,L1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

LABORATORY CONTROL SAMPLE: 2549872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	131	126	70-138	
2-Propanol	ug/m3	125	177	142	70-130	CH,L1
4-Ethyltoluene	ug/m3	50	63.7	128	70-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	127	122	70-130	
Acetone	ug/m3	121	161	133	64-130	CH,L1
Allyl chloride	ug/m3	79.5	102	128	60-147	
Benzene	ug/m3	32.5	37.3	115	70-130	
Bromodichloromethane	ug/m3	68.1	75.5	111	70-134	
Bromoform	ug/m3	105	112	106	70-150	
Bromomethane	ug/m3	39.5	53.3	135	70-130	CH,L3
Carbon disulfide	ug/m3	31.6	41.9	132	70-134	CH
Carbon tetrachloride	ug/m3	64	85.0	133	68-150	CH
Chlorobenzene	ug/m3	46.8	52.9	113	70-132	
Chlorodifluoromethane	ug/m3	36	40.2	112	67-134	
Chloroethane	ug/m3	26.8	31.3	117	70-132	
Chloroform	ug/m3	49.6	66.5	134	70-130	CH,L1
Chloromethane	ug/m3	21	24.3	116	70-130	
Chloropentafluoroethane	ug/m3	64.2	71.1	111		1M
cis-1,2-Dichloroethene	ug/m3	40.3	60.5	150	70-133	CH,L1
cis-1,3-Dichloropropene	ug/m3	46.1	48.9	106	70-137	
Cyclohexane	ug/m3	35	40.6	116	70-130	
Dibromochloromethane	ug/m3	86.6	91.9	106	70-144	
Dichlorodifluoromethane	ug/m3	50.3	52.2	104	70-130	
Dichlorotetrafluoroethane	ug/m3	71	78.9	111	70-130	
Ethylbenzene	ug/m3	44.1	50.7	115	70-134	
Freon 123	ug/m3	63.6	77.1	121		1M
Hexachloro-1,3-butadiene	ug/m3	108	116	107	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	57.1	114	70-140	
m&p-Xylene	ug/m3	88.3	101	115	70-130	
Methyl acetate	ug/m3	30.8	30.8	100		1M
Methyl-tert-butyl ether	ug/m3	91.6	138	151	66-148	CH,L3
Methylcyclohexane	ug/m3	40.8	48.4	119	70-137	
Methylene Chloride	ug/m3	177	222	126	67-133	
n-Hexane	ug/m3	35.8	49.6	139	67-132	CH,L1
o-Xylene	ug/m3	44.1	50.4	114	70-130	
Styrene	ug/m3	43.3	51.9	120	70-139	
Tetrachloroethene	ug/m3	68.9	73.1	106	70-130	
Toluene	ug/m3	38.3	44.7	117	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	63.0	156	70-131	CH,L1
trans-1,3-Dichloropropene	ug/m3	46.1	47.7	103	70-142	
Trichloroethene	ug/m3	54.6	63.0	115	70-130	
Trichlorofluoromethane	ug/m3	57.1	78.5	137	70-130	CH,L1
Vinyl chloride	ug/m3	26	29.9	115	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 466636 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09205L.D Lab Sample ID: 2550307
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 10:38
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP-108D_50.5_20170307	10381335021	09206.D	11:06
02	VP-108D_50.5_20170307 Should be field duplicate	10381335024	09208.D	12:01

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

QC Batch: 466636 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10381335021, 10381335024

Lab did not report MDLs. No positive results for the blank as verified by the raw data.

METHOD BLANK: 2550307 Matrix: Air
Associated Lab Samples: 10381335021, 10381335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.0J	1.1		04/02/17 10:38	
1,1,2,2-Tetrachloroethane	ug/m3	0.0J	0.70		04/02/17 10:38	
1,1,2-Trichloroethane	ug/m3	0.0J	0.55		04/02/17 10:38	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.0J	1.6		04/02/17 10:38	
1,1-Dichloroethane	ug/m3	0.0J	0.82		04/02/17 10:38	
1,1-Dichloroethene	ug/m3	0.0J	0.81		04/02/17 10:38	
1,2,4-Trichlorobenzene	ug/m3	0.0J	3.8		04/02/17 10:38	
1,2,4-Trimethylbenzene	ug/m3	0.0J	1.0		04/02/17 10:38	
1,2-Dibromo-3-chloropropane	ug/m3	0.0J	4.9		04/02/17 10:38	
1,2-Dibromoethane (EDB)	ug/m3	0.0J	1.6		04/02/17 10:38	
1,2-Dichlorobenzene	ug/m3	0.0J	1.2		04/02/17 10:38	
1,2-Dichloroethane	ug/m3	0.0J	0.41		04/02/17 10:38	
1,2-Dichloropropane	ug/m3	0.0J	0.94		04/02/17 10:38	
1,3,5-Trimethylbenzene	ug/m3	0.0J	1.0		04/02/17 10:38	
1,3-Butadiene	ug/m3	0.0J	0.45		04/02/17 10:38	
1,3-Dichlorobenzene	ug/m3	0.0J	1.2		04/02/17 10:38	
1,4-Dichlorobenzene	ug/m3	0.0J	1.2		04/02/17 10:38	
1,4-Dioxane (p-Dioxane)	ug/m3	0.0J	3.7		04/02/17 10:38	
2-Butanone (MEK)	ug/m3	0.0J	3.0		04/02/17 10:38	
2-Hexanone	ug/m3	0.0J	4.2		04/02/17 10:38	
2-Propanol	ug/m3	0.0J	2.5		04/02/17 10:38	
4-Ethyltoluene	ug/m3	0.0J	1.0		04/02/17 10:38	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.0J	4.2		04/02/17 10:38	
Acetone	ug/m3	0.0J	2.4		04/02/17 10:38	
Allyl chloride	ug/m3	0.0J	1.6		04/02/17 10:38	
Benzene	ug/m3	0.0J	0.32		04/02/17 10:38	
Bromodichloromethane	ug/m3	0.0J	1.4		04/02/17 10:38	
Bromoform	ug/m3	0.0J	2.1		04/02/17 10:38	
Bromomethane	ug/m3	0.0J	0.79		04/02/17 10:38	
Carbon disulfide	ug/m3	0.0J	0.63		04/02/17 10:38	
Carbon tetrachloride	ug/m3	0.0J	0.64		04/02/17 10:38	
Chlorobenzene	ug/m3	0.0J	0.94		04/02/17 10:38	
Chlorodifluoromethane	ug/m3	0.0J	0.72		04/02/17 10:38	
Chloroethane	ug/m3	0.0J	0.54		04/02/17 10:38	
Chloroform	ug/m3	0.0J	0.50		04/02/17 10:38	
Chloromethane	ug/m3	0.0J	0.42		04/02/17 10:38	
Chloropentafluoroethane	ug/m3	0.0J	3.2		04/02/17 10:38	
cis-1,2-Dichloroethene	ug/m3	0.0J	0.81		04/02/17 10:38	
cis-1,3-Dichloropropene	ug/m3	0.0J	0.92		04/02/17 10:38	
Cyclohexane	ug/m3	0.0J	0.70		04/02/17 10:38	
Dibromochloromethane	ug/m3	0.0J	1.7		04/02/17 10:38	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

METHOD BLANK: 2550307 Matrix: Air
Associated Lab Samples: 10381335021, 10381335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	0.0J	1.0		04/02/17 10:38	
Dichlorotetrafluoroethane	ug/m3	0.0J	1.4		04/02/17 10:38	
Ethylbenzene	ug/m3	0.0J	0.88		04/02/17 10:38	
Freon 123	ug/m3	0.0J	3.2		04/02/17 10:38	
Hexachloro-1,3-butadiene	ug/m3	0.0J	5.4		04/02/17 10:38	MN
Isopropylbenzene (Cumene)	ug/m3	0.0J	2.5		04/02/17 10:38	
m&p-Xylene	ug/m3	0.0J	1.8		04/02/17 10:38	
Methyl acetate	ug/m3	0.0J	1.5		04/02/17 10:38	
Methyl-tert-butyl ether	ug/m3	0.0J	3.7		04/02/17 10:38	
Methylcyclohexane	ug/m3	0.0J	0.82		04/02/17 10:38	
Methylene Chloride	ug/m3	0.0J	3.5		04/02/17 10:38	
n-Hexane	ug/m3	0.0J	0.72		04/02/17 10:38	
o-Xylene	ug/m3	0.0J	0.88		04/02/17 10:38	
Styrene	ug/m3	0.0J	0.87		04/02/17 10:38	
Tetrachloroethene	ug/m3	0.0J	0.69		04/02/17 10:38	
Toluene	ug/m3	0.0J	0.77		04/02/17 10:38	
trans-1,2-Dichloroethene	ug/m3	0.0J	0.81		04/02/17 10:38	
trans-1,3-Dichloropropene	ug/m3	0.0J	0.92		04/02/17 10:38	
Trichloroethene	ug/m3	0.0J	0.55		04/02/17 10:38	
Trichlorofluoromethane	ug/m3	0.0J	1.1		04/02/17 10:38	
Vinyl chloride	ug/m3	0.0J	0.26		04/02/17 10:38	

LABORATORY CONTROL SAMPLE: 2550308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	66.9	121	70-134	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	77.0	110	70-130	
1,1,2-Trichloroethane	ug/m3	55.5	62.8	113	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	85.4	110	70-130	
1,1-Dichloroethane	ug/m3	41.1	48.2	117	70-130	
1,1-Dichloroethene	ug/m3	40.3	48.0	119	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	77.4	103	60-150	
1,2,4-Trimethylbenzene	ug/m3	50	57.1	114	70-136	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	104	106		1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	86.3	111	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	74.4	122	70-139	
1,2-Dichloroethane	ug/m3	41.1	46.9	114	70-130	
1,2-Dichloropropane	ug/m3	47	53.3	114	70-131	
1,3,5-Trimethylbenzene	ug/m3	50	55.1	110	70-133	
1,3-Butadiene	ug/m3	22.5	25.9	115	70-130	
1,3-Dichlorobenzene	ug/m3	61.1	74.7	122	70-144	
1,4-Dichlorobenzene	ug/m3	61.1	76.0	124	70-139	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	43.0	117	65-149	
2-Butanone (MEK)	ug/m3	30	32.3	108	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

LABORATORY CONTROL SAMPLE: 2550308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	121	117	70-138	
2-Propanol	ug/m3	125	144	116	70-130	
4-Ethyltoluene	ug/m3	50	59.0	118	70-135	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	120	115	70-130	
Acetone	ug/m3	121	139	115	64-130	
Allyl chloride	ug/m3	79.5	106	133	60-147	
Benzene	ug/m3	32.5	37.4	115	70-130	
Bromodichloromethane	ug/m3	68.1	83.5	123	70-134	
Bromoform	ug/m3	105	134	127	70-150	
Bromomethane	ug/m3	39.5	46.8	119	70-130	
Carbon disulfide	ug/m3	31.6	37.6	119	70-134	
Carbon tetrachloride	ug/m3	64	79.8	125	68-150	
Chlorobenzene	ug/m3	46.8	48.5	104	70-132	
Chlorodifluoromethane	ug/m3	36	40.1	111	67-134	
Chloroethane	ug/m3	26.8	31.8	119	70-132	
Chloroform	ug/m3	49.6	65.1	131	70-130	CH,L1
Chloromethane	ug/m3	21	24.5	117	70-130	
Chloropentafluoroethane	ug/m3	64.2	50.2	78		1M
cis-1,2-Dichloroethene	ug/m3	40.3	45.4	113	70-133	
cis-1,3-Dichloropropene	ug/m3	46.1	56.2	122	70-137	
Cyclohexane	ug/m3	35	40.5	116	70-130	
Dibromochloromethane	ug/m3	86.6	102	118	70-144	
Dichlorodifluoromethane	ug/m3	50.3	53.7	107	70-130	
Dichlorotetrafluoroethane	ug/m3	71	83.0	117	70-130	
Ethylbenzene	ug/m3	44.1	47.5	108	70-134	
Freon 123	ug/m3	63.6	74.7	118		1M
Hexachloro-1,3-butadiene	ug/m3	108	126	116	45-150	
Isopropylbenzene (Cumene)	ug/m3	50	52.2	104	70-140	
m&p-Xylene	ug/m3	88.3	94.3	107	70-130	
Methyl acetate	ug/m3	30.8	34.1	111		1M
Methyl-tert-butyl ether	ug/m3	91.6	102	111	66-148	
Methylcyclohexane	ug/m3	40.8	48.0	118	70-137	
Methylene Chloride	ug/m3	177	194	110	67-133	
n-Hexane	ug/m3	35.8	39.3	110	67-132	
o-Xylene	ug/m3	44.1	46.6	106	70-130	
Styrene	ug/m3	43.3	48.2	111	70-139	
Tetrachloroethene	ug/m3	68.9	68.2	99	70-130	
Toluene	ug/m3	38.3	42.9	112	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	44.8	111	70-131	
trans-1,3-Dichloropropene	ug/m3	46.1	60.5	131	70-142	CH
Trichloroethene	ug/m3	54.6	59.3	108	70-130	
Trichlorofluoromethane	ug/m3	57.1	68.0	119	70-130	
Vinyl chloride	ug/m3	26	29.9	115	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

SAMPLE DUPLICATE: 2550945 SAMPLE VP-108D_50.5_20170307

Parameter	Units	10381335021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	0.0J	0.0J		25	
1,1,2,2-Tetrachloroethane	ug/m3	0.0J	0.0J		25	
1,1,2-Trichloroethane	ug/m3	0.0J	0.0J		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	16.0J	14.2J	11.9	25	
1,1-Dichloroethane	ug/m3	0.0J	0.0J		25	
1,1-Dichloroethene	ug/m3	0.0J	0.0J		25	
1,2,4-Trichlorobenzene	ug/m3	0.0J	0.0J		25	
1,2,4-Trimethylbenzene	ug/m3	1.7J	0.0J		25	
1,2-Dibromo-3-chloropropane	ug/m3	0.0J	0.0J		25	
1,2-Dibromoethane (EDB)	ug/m3	0.0J	0.0J		25	
1,2-Dichlorobenzene	ug/m3	0.0J	0.0J		25	
1,2-Dichloroethane	ug/m3	0.0J	0.0J		25	
1,2-Dichloropropane	ug/m3	0.0J	0.0J		25	
1,3,5-Trimethylbenzene	ug/m3	0.0J	0.0J		25	
1,3-Butadiene	ug/m3	0.0J	0.0J		25	
1,3-Dichlorobenzene	ug/m3	0.0J	0.0J		25	
1,4-Dichlorobenzene	ug/m3	0.0J	0.0J		25	
1,4-Dioxane (p-Dioxane)	ug/m3	0.0J	0.0J		25	
2-Butanone (MEK)	ug/m3	0.0J	0.0J		25	
2-Hexanone	ug/m3	0.0J	0.0J		25	
2-Propanol	ug/m3	0.0J	0.0J		25	
4-Ethyltoluene	ug/m3	0.0J	0.0J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.0J	0.0J		25	
Acetone	ug/m3	14.4J	14.7J	2.1	25	
Allyl chloride	ug/m3	0.0J	0.0J		25	
Benzene	ug/m3	0.0J	0.0J		25	
Bromodichloromethane	ug/m3	0.0J	0.0J		25	
Bromoform	ug/m3	0.0J	0.0J		25	
Bromomethane	ug/m3	0.0J	0.0J		25	
Carbon disulfide	ug/m3	0.0J	0.0J		25	
Carbon tetrachloride	ug/m3	0.0J	0.0J		25	
Chlorobenzene	ug/m3	0.0J	0.0J		25	
Chlorodifluoromethane	ug/m3	0.0J	0.0J		25	
Chloroethane	ug/m3	0.0J	0.0J		25	
Chloroform	ug/m3	0.0J	0.0J		25	
Chloromethane	ug/m3	0.0J	0.0J		25	
Chloropentafluoroethane	ug/m3	0.0J	0.0J		25	
cis-1,2-Dichloroethene	ug/m3	878	957	9	25	
cis-1,3-Dichloropropene	ug/m3	0.0J	0.0J		25	
Cyclohexane	ug/m3	0.0J	0.0J		25	
Dibromochloromethane	ug/m3	0.0J	0.0J		25	
Dichlorodifluoromethane	ug/m3	0.0J	5.7J		25	
Dichlorotetrafluoroethane	ug/m3	0.0J	0.0J		25	
Ethylbenzene	ug/m3	3.9J	4.0J	2.5	25	
Freon 123	ug/m3	0.0J	0.0J		25	
Hexachloro-1,3-butadiene	ug/m3	0.0J	0.0J		25	
Isopropylbenzene (Cumene)	ug/m3	0.0J	0.0J		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507644 LMC Great Neck
Pace Project No.: 10381335

SAMPLE DUPLICATE: 2550945

Parameter	Units	10381335021 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	23.0J	23.4J	1.7	25	
Methyl acetate	ug/m3	0.0J	0.0J		25	
Methyl-tert-butyl ether	ug/m3	0.0J	0.0J		25	
Methylcyclohexane	ug/m3	0.0J	0.0J		25	
Methylene Chloride	ug/m3	31.0J	29.3J	5.638	25	
n-Hexane	ug/m3	0.0J	1.6J		25	
o-Xylene	ug/m3	0.0J	0.0J		25	
Styrene	ug/m3	0.0J	0.0J		25	
Tetrachloroethene	ug/m3	48.8	50.0	3	25	
Toluene	ug/m3	44.8	42.9	4	25	
trans-1,2-Dichloroethene	ug/m3	0.0J	0.0J		25	
trans-1,3-Dichloropropene	ug/m3	0.0J	0.0J		25	
Trichloroethene	ug/m3	33.5	31.5	6	25	
Trichlorofluoromethane	ug/m3	0.0J	0.0J		25	
Vinyl chloride	ug/m3	0.0J	0.0J		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08609BFB.D BFB Injection Date: 03/27/2017
Instrument ID: 10AIRB BFB Injection Time: 12:41
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.91	
75	30.00 - 66.00% of mass 95	45.18	
96	5.00 - 9.00% of mass 95	6.40	
173	Less than 2.00% of mass 174	0.98	(1.13)
174	50.00 - 120.00% of mass 95	87.16	
175	4.00 - 9.00% of mass 174	6.19	(7.11)
176	93.00 - 101.00% of mass 174	85.14	(97.69)
177	5.00 - 9.00% of mass 176	5.34	(6.28)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	08610.D	03/27/2017	13:08
2	CAL2	CAL2	08611.D	03/27/2017	13:36
3	CAL3	CAL3	08612.D	03/27/2017	14:03
4	CAL4	CAL4	08613.D	03/27/2017	14:31
5	CAL5	CAL5	08614.D	03/27/2017	14:58
6	CAL6	CAL6	08615.D	03/27/2017	15:27
7	CAL7	CAL7	08616.D	03/27/2017	15:56
8	LCS for HBN 465793 [AIR/28019]	2546083	08618_28019.D	03/27/2017	16:52
9	ICV	ICV	08618.D	03/27/2017	16:52
10	BLANK for HBN 465793 [AIR/2801	2546082	08623_28019.D	03/27/2017	19:49
11	VP-102_4.5_20170306	10381335001	08636.D	03/28/2017	02:50
12	L15-VP-7_30_20170306	10381335002	08637.D	03/28/2017	03:22
13	VP-107_5_20170306	10381335003	08638.D	03/28/2017	03:53

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\032717.b\08610.D
Level 02: all \\192.168.10.12\chem\10airB.i\032717.b\08611.D
Level 03: all \\192.168.10.12\chem\10airB.i\032717.b\08612.D
Level 04: all \\192.168.10.12\chem\10airB.i\032717.b\08613.D
Level 05: all \\192.168.10.12\chem\10airB.i\032717.b\08614.D
Level 06: all \\192.168.10.12\chem\10airB.i\032717.b\08615.D
Level 07: all \\192.168.10.12\chem\10airB.i\032717.b\08616.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	6977	13972	29811	42629	322987	440639	+++++	QUAD	0.00164	0.14656	-0.03419	0.99983
2 1,1-Difluoroethane	0.09849	0.11583	0.11069	0.11498	0.11986	0.11743						
	0.11930							AVRG		0.11380		6.51234
3 Chlorodifluoromethane	0.03988	0.05524	0.05172	0.05288	0.05460	0.05125						
	0.05256							AVRG		0.05116		10.12850
4 Propylene	0.14852	0.15812	0.16137	0.15280	0.14495	0.13833						
	0.14235							AVRG		0.14949		5.61942

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	0.54600	0.63010	0.55566	0.55100	0.53693	0.51049					
	0.52302						AVRG		0.55046		7.00576
6 Chloromethane	0.21013	0.22191	0.22464	0.22794	0.23820	0.22818					
	0.23819						AVRG		0.22703		4.28917
7 Dichlorotetrafluoroethane	0.39112	0.51551	0.52933	0.52585	0.51000	0.48384					
	0.48612						AVRG		0.49168		9.71638
8 Vinyl chloride	0.15718	0.19229	0.17646	0.18572	0.19992	0.19532					
	0.20690						AVRG		0.18768		8.85914
9 1,3-Butadiene	0.10721	0.13583	0.14699	0.14346	0.15209	0.14909					
	0.15759						AVRG		0.14175		11.76907
10 Bromomethane	0.11021	0.15186	0.15472	0.15729	0.15975	0.15434					
	0.16266						AVRG		0.15012		11.96759
11 Chloroethane	0.05980	0.07392	0.07892	0.07985	0.08679	0.08568					
	0.09098						AVRG		0.07942		13.03279

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.06424	0.06519	0.06685	0.06438	0.06912	0.06718					
	0.06719						AVRG		0.06631		2.68095
13 Vinyl Bromide	0.12720	0.15620	0.15764	0.15600	0.15884	0.15106					
	0.15110						AVRG		0.15115		7.26693
14 Isopentane	0.16593	0.20906	0.18533	0.19558	0.19066	0.17985					
	0.19442						AVRG		0.18869		7.19805
15 Freon 123	8301	20163	50263	80635	647630	1135553					
	1520106						QUAD	0.00356	0.23762	-0.01677	0.99981
16 Trichlorofluoromethane	0.27976	0.39977	0.40880	0.40425	0.41460	0.39132					
	0.39873						AVRG		0.38532		12.23421
17 Acrolein	0.05447	0.05577	0.06512	0.06130	0.06412	0.06056					
	0.06284						AVRG		0.06060		6.71154
18 Acetone	0.25721	0.27652	0.27351	0.27270	0.26403	0.24565					
	0.23919						AVRG		0.26126		5.56568

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	0.29345	0.31772	0.30607	0.30948	0.29805	0.27183					
	0.26191						AVRG		0.29407		6.92155
20 1,1-Dichloroethene	0.22499	0.28591	0.27978	0.27583	0.28373	0.27220					
	0.27636						AVRG		0.27126		7.71982
21 Acrylonitrile	0.12516	0.13543	0.13319	0.13702	0.14200	0.13210					
	0.12836						AVRG		0.13332		4.17781
22 Freon 113	0.27162	0.34678	0.33179	0.32948	0.31736	0.28675					
	0.28213						AVRG		0.30942		9.37535
23 Methyl Acetate	0.42851	0.45922	0.46450	0.45342	0.43172	0.38808					
	0.38195						AVRG		0.42963		7.75684
24 Tert Butyl Alcohol (TBA)	0.38163	0.40301	0.41117	0.39850	0.37172	0.32678					
	0.32173						AVRG		0.37351		9.68238
25 Methylene chloride	0.19183	0.22498	0.21507	0.21177	0.19903	0.18250					
	0.17679						AVRG		0.20028		8.88902

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
26 Allyl Chloride	0.05283	0.05673	0.05926	0.06167	0.04920	0.04537					
	0.04497						AVRG		0.05286		12.57888
27 Carbon Disulfide	0.31197	0.35472	0.34391	0.35630	0.37251	0.36533					
	0.36923						AVRG		0.35342		5.86093
28 trans-1,2-dichloroethene	0.13786	0.16080	0.15034	0.15260	0.15634	0.14916					
	0.15176						AVRG		0.15127		4.70291
29 Methyl Tert Butyl Ether	0.37571	0.42204	0.42301	0.42464	0.41475	0.38457					
	0.37761						AVRG		0.40319		5.63588
30 Vinyl Acetate	0.42590	0.41177	0.43588	0.44312	0.45245	0.44794					
	0.45910						AVRG		0.43945		3.71996
31 1,1-Dichloroethane	0.24956	0.29021	0.29855	0.30950	0.30905	0.29762					
	0.30477						AVRG		0.29418		7.08358
33 Methyl Ethyl Ketone	0.08984	0.08943	0.07902	0.07502	0.07413	0.07521					
	0.07784						AVRG		0.08007		8.43412

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.29112	0.31331	0.29412	0.29609	0.29608	0.28294					
	0.29708						AVRG		0.29582		3.08146
35 Di-isopropyl Ether	0.56923	0.57441	0.56430	0.58077	0.57623	0.55291					
	0.64430						AVRG		0.58031		5.10982
36 Ethyl Acetate	0.34927	0.39571	0.36477	0.36824	0.37752	0.36220					
	0.44101						AVRG		0.37982		8.04852
37 cis-1,2-Dichloroethene	0.14620	0.15828	0.15594	0.16828	0.16779	0.16297					
	0.20165						AVRG		0.16587		10.56155
38 Ethyl Tert-Butyl Ether	0.64922	0.62926	0.57413	0.57046	0.63810	0.53084					
	0.53053						AVRG		0.58893		8.49660
39 Chloroform	0.34389	0.32304	0.30662	0.30658	0.36274	0.32428					
	0.33615						AVRG		0.32904		6.16896
40 Tetrahydrofuran	0.22092	0.23712	0.22151	0.21905	0.23528	0.22993					
	0.23657						AVRG		0.22863		3.49396

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.38586	0.45878	0.42957	0.43429	0.44867	0.41844					
	0.41562						AVRG		0.42732		5.59803
42 1,2-Dichloroethane	0.31420	0.33030	0.34659	0.33414	0.33805	0.31790					
	0.31440						AVRG		0.32794		3.87099
43 Benzene	0.53350	0.61442	0.58949	0.59023	0.59511	0.56202					
	0.55283						AVRG		0.57680		4.88321
44 Carbon tetrachloride	0.35500	0.41309	0.41240	0.43727	0.45330	0.41654					
	0.40485						AVRG		0.41321		7.43077
45 Cyclohexane	0.33561	0.36352	0.34753	0.34221	0.33244	0.30391					
	0.29498						AVRG		0.33146		7.29643
46 Tert Amyl Methyl Ether	45369	58362	109172	186304	1701309	3164442					
	4558414						LINR	0.01279	0.56387		0.99975
48 2,2,4-Trimethylpentane	1.07505	1.15094	1.10407	1.07940	1.02135	0.87044					
	0.77314						AVRG		1.01062		13.60719

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
49 Heptane	0.32966	0.35865	0.37674	0.37303	0.37970	0.36466					
	0.36567						AVRG		0.36402		4.62596
50 1,2-Dichloropropane	0.21860	0.22653	0.22580	0.22697	0.23735	0.22788					
	0.22463						AVRG		0.22682		2.45216
51 Trichloroethene	0.29682	0.29807	0.29911	0.30640	0.31474	0.30353					
	0.30026						AVRG		0.30270		2.06336
52 Methyl methacrylate	0.19798	0.22593	0.19530	0.20034	0.21442	0.20234					
	0.20605						AVRG		0.20605		5.21339
53 1,4-Dioxane	0.13267	0.14568	0.15195	0.13411	0.14578	0.13826					
	0.13727						AVRG		0.14082		5.04260
54 Bromodichloromethane	0.33794	0.38140	0.39103	0.41293	0.45107	0.42033					
	0.41744						AVRG		0.40173		8.94627
55 Methylcyclohexane	0.15307	0.17322	0.18472	0.16518	0.17604	0.17034					
	0.17194						AVRG		0.17064		5.73262

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
56 Methyl Isobutyl Ketone	0.48165	0.51637	0.52441	0.51485	0.51508	0.46543					
	0.44295						AVRG		0.49439		6.33076
57 cis-1,3-Dichloropropene	0.29278	0.30600	0.30561	0.31947	0.35837	0.34589					
	0.35323						AVRG		0.32591		8.06669
58 trans-1,3-Dichloropropene	6584	15064	37649	80369	924741	1807671					
	2691808						LINR	-0.00428	0.33294		0.99969
60 1,1,2-Trichloroethane	0.23960	0.25684	0.23325	0.23888	0.25296	0.23294					
	0.22951						AVRG		0.24057		4.34641
61 Toluene	0.65513	0.70924	0.71813	0.72508	0.73964	0.69101					
	0.67494						AVRG		0.70188		4.23930
62 Methyl Butyl Ketone	0.71948	0.73689	0.71376	0.69919	0.74379	0.68468					
	0.62551						AVRG		0.70333		5.67342
63 n-Octane	0.85382	0.81537	0.81364	0.79781	0.79050	0.73282					
	0.69614						AVRG		0.78573		6.83156

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
64 Dibromochloromethane	0.65335	0.63813	0.65764	0.69963	0.77569	0.72880					
	0.69104						AVRG		0.69204		6.97845
65 1,2-Dibromoethane	0.63567	0.59730	0.62752	0.62505	0.66214	0.62058					
	0.59490						AVRG		0.62331		3.68929
66 Tetrachloroethene	0.72375	0.71957	0.67707	0.67561	0.62739	0.59849					
	0.56257						AVRG		0.65492		9.31053
68 Chlorobenzene	1.00369	0.96357	0.95228	0.94807	0.97774	0.92238					
	0.88018						AVRG		0.94970		4.18591
69 Ethyl Benzene	1.52342	1.42529	1.50279	1.51470	1.52692	1.42207					
	1.34430						AVRG		1.46564		4.75423
70 m&p-Xylene	1.15907	1.20968	1.17384	1.17986	1.15162	1.03340					
	0.93118						AVRG		1.11981		8.94524
71 n-Nonane	0.73667	0.74335	0.73737	0.72960	0.71981	0.63792					
	0.57857						AVRG		0.69761		9.15030

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
72 Bromoform	0.45639	0.49967	0.50277	0.53048	0.62871	0.58310					
	0.53799						AVRG		0.53416		10.69583
73 Styrene	0.81597	0.81159	0.79683	0.82080	0.89186	0.83857					
	0.78422						AVRG		0.82284		4.25567
74 o-Xylene	1.18664	1.16418	1.21683	1.17623	1.17538	1.09734					
	1.02806						AVRG		1.14924		5.61464
75 1,1,2,2-Tetrachloroethane	0.61333	0.60604	0.59399	0.60836	0.67483	0.64733					
	0.62159						AVRG		0.62364		4.49467
76 Isopropylbenzene	1.60008	1.65744	1.61083	1.58022	1.59246	1.47884					
	1.38326						AVRG		1.55759		6.03000
77 N-Propylbenzene	1.45279	1.56930	1.64779	1.67908	1.80632	1.70387					
	1.59279						AVRG		1.63599		6.85642
78 4-Ethyltoluene	1.31285	1.29474	1.33554	1.40823	1.53623	1.46754					
	1.37796						AVRG		1.39044		6.28792

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,3,5-Trimethylbenzene	1.21299	1.22520	1.19787	1.24006	1.30081	1.22168	1.15339	AVRG		1.22171		3.64797
80 n-Decane	0.35073	0.40463	0.38622	0.42056	0.48691	0.48906	0.49302	AVRG		0.43302		13.18813
81 Tert-Butyl Benzene	1.35621	1.42278	1.31724	1.32624	1.34166	1.22654	1.14037	AVRG		1.30443		7.11584
82 1,2,4-Trimethylbenzene	1.03498	1.13455	1.07314	1.10657	1.18034	1.08194	0.98359	AVRG		1.08502		5.94267
83 1,3-Dichlorobenzene	9141	17436	45261	100283	1348695	2580138	3652492	QUAD	-0.01137	0.81287	-0.04901	0.99992
84 Sec- Butylbenzene	1.49850	1.55724	1.55286	1.59469	1.67617	1.52290	1.37427	AVRG		1.53952		6.01644
86 Benzyl Chloride	6025	10633	31855	71788	1380415	2882556	4290403	LINR	-0.01618	0.78820		0.99962

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
87 1,4-Dichlorobenzene	7969	16606	44061	96580	1333261	2651086	3892321	LINR	-0.00080	0.71515		0.99931
88 p-Isopropyltoluene	1.16281	1.27192	1.24865	1.28766	1.45424	1.37350	1.26885	AVRG		1.29538		7.21525
89 1,2,3-Trimethylbenzene	0.92668	1.08407	1.01175	1.03853	1.15364	1.08521	1.01273	AVRG		1.04466		6.89536
90 1,2-Dichlorobenzene	8072	15181	43642	88314	1253138	2507689	3691667	LINR	-0.00188	0.67779		0.99942
91 N-Butylbenzene	10844	22072	64877	139927	2003053	3878354	5647992	LINR	0.00399	1.04064		0.99870
92 1,2-Dibromo-3-Chloropropane	1539	3237	9785	21543	428189	912151	1417510	QUAD	-0.00570	0.24000	0.00634	0.99984
93 1,2,4-Trichlorobenzene	491	845	3396	9982	283452	714934	1236423	QUAD	-0.00455	0.13784	0.02940	0.99975

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	+++++	3746	15081	37941	768688	1820789					
	3031873						QUAD	-0.01305	0.39955	0.05171	0.99982
95 Hexachlorobutadiene	0.19495	0.19491	0.21685	0.22106	0.22520	0.22510					
	0.23019						AVRG		0.21547		6.78070
$ 32 Hexane-d14(S)	0.37155	0.37551	0.37046	0.36570	0.37301	0.38240					
	0.38727						AVRG		0.37513		1.97270
$ 59 Toluene-d8 (S)	0.79041	0.81022	0.81843	0.82511	0.86199	0.88069					
	0.91450						AVRG		0.84305		5.22829
$ 85 1,4-dichlorobenzene-d4 (S)	0.38571	0.41257	0.42828	0.46425	0.53365	0.55268					
	0.54590						AVRG		0.47472		14.56105

Report Date : 28-Mar-2017 10:35

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-MAR-2017 13:08
End Cal Date : 27-MAR-2017 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\032717.b\TO15_086-17.m
Last Edit : 28-Mar-2017 10:33 nkoller

Average %RSD Results.	
Calculated Average %RSD =	7.01386
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08701BFB.D BFB Injection Date: 03/28/2017
Instrument ID: 10AIRB BFB Injection Time: 09:23
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.40	
75	30.00 - 66.00% of mass 95	45.27	
96	5.00 - 9.00% of mass 95	6.62	
173	Less than 2.00% of mass 174	0.81	(0.94)
174	50.00 - 120.00% of mass 95	86.07	
175	4.00 - 9.00% of mass 174	6.33	(7.36)
176	93.00 - 101.00% of mass 174	82.58	(95.93)
177	5.00 - 9.00% of mass 176	5.65	(6.84)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 465981 [AIR/28028]	2546891	08702_28028.D	03/28/2017	09:50
2	CCV	CCV	08702.D	03/28/2017	09:50
3	BLANK for HBN 465981 [AIR/2802	2546890	08708_28028.D	03/28/2017	12:52
4	CERT	CERT	08709.D	03/28/2017	13:22
5	VP-107_13_20170306	10381335004	08717.D	03/28/2017	17:33
6	VP-107_13_20170306(2533062DUP)	2547455-DUP	08718.D	03/28/2017	18:04
7	VP-3_5_20170307	10381335010	08719.D	03/28/2017	18:36
8	VP-108_5_20170307	10381335017	08720.D	03/28/2017	19:08
9	VP-3_5_20170307DUP	10381335026	08722.D	03/28/2017	20:11
10	VP-108_10_20170307	10381335018	08723.D	03/28/2017	20:43
11	VP-108_20_20170307	10381335019	08724.D	03/28/2017	21:14
12	VP-3_20_20170307	10381335012	08725.D	03/28/2017	21:46
13	VP-108D_60_20170307	10381335022	08726.D	03/28/2017	22:17
14	VP-3_30_20170307	10381335027	08728.D	03/28/2017	23:14
15	VP-3D_61_20170307	10381335015	08729.D	03/28/2017	23:42
16	VP-3D_51_20170307	10381335014	08732.D	03/29/2017	01:05
17	VP-3D_73_20170307	10381335016	08733.D	03/29/2017	01:33
18	VP-108D_70_20170307	10381335023	08734.D	03/29/2017	02:01
19	VP-3D_73_20170307DUP	10381335025	08735.D	03/29/2017	02:28
20	VP-107_33.5_20170306	10381335006	08736.D	03/29/2017	02:57
21	VP-107_60_20170306	10381335008	08737.D	03/29/2017	03:25
22	VP-107_74_20170306	10381335009	08738.D	03/29/2017	03:53
23	VP-107_20_20170306	10381335005	08739.D	03/29/2017	04:20

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 28-MAR-2017 09:50
Lab File ID: 08702.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	++++	0.19708	0.010	++++	30.00000	Quad	(a)	<-
	2 1,1-Difluoroethane	0.11380	0.14146	0.14146	0.010	24.31163	30.00000	Aver		
	3 Chlorodifluoromethane	0.05116	0.06187	0.06187	0.010	20.93321	30.00000	Aver		
	4 Propylene	0.14949	0.16925	0.16925	0.010	13.21571	30.00000	Aver		
	5 Dichlorodifluoromethane	0.55046	0.63042	0.63042	0.010	14.52687	30.00000	Aver		
	6 Chloromethane	0.22703	0.28335	0.28335	0.010	24.80929	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.49168	0.60031	0.60031	0.010	22.09404	30.00000	Aver		
	8 Vinyl chloride	0.18768	0.24324	0.24324	0.010	29.59977	30.00000	Aver		
	9 1,3-Butadiene	0.14175	0.18036	0.18036	0.010	27.23495	30.00000	Aver		
	10 Bromomethane	0.15012	0.18263	0.18263	0.010	21.65640	30.00000	Aver		
	11 Chloroethane	0.07942	0.09940	0.09940	0.010	25.15636	30.00000	Aver		
	12 Ethanol	0.06631	0.08248	0.08248	0.005	24.39966	30.00000	Aver		
	13 Vinyl Bromide	0.15115	0.17958	0.17958	0.010	18.81338	30.00000	Aver		
	14 Isopentane	0.18869	0.22957	0.22957	0.010	21.66730	30.00000	Aver		
	15 Freon 123	10.00000	11.77496	0.26010	0.010	17.74960	30.00000	Quad		
	16 Trichlorofluoromethane	0.38532	0.47282	0.47282	0.010	22.70852	30.00000	Aver		
	17 Acrolein	0.06060	0.07514	0.07514	0.010	24.00294	30.00000	Aver		
	18 Acetone	0.26126	0.31034	0.31034	0.010	18.78621	30.00000	Aver		
	19 Isopropyl Alcohol	0.29407	0.35412	0.35412	0.010	20.41750	30.00000	Aver		
	20 1,1-Dichloroethene	0.27126	0.32428	0.32428	0.010	19.54683	30.00000	Aver		
	21 Acrylonitrile	0.13332	0.16583	0.16583	0.010	24.38446	30.00000	Aver		
	22 Freon 113	0.30942	0.36273	0.36273	0.010	17.23058	30.00000	Aver		
	23 Methyl Acetate	0.42963	0.51244	0.51244	0.010	19.27487	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.37351	0.43779	0.43779	0.010	17.21024	30.00000	Aver		
	25 Methylene chloride	0.20028	0.23433	0.23433	0.010	16.99918	30.00000	Aver		
	26 Allyl Chloride	0.05286	0.05542	0.05542	0.010	4.83705	30.00000	Aver		
	27 Carbon Disulfide	0.35342	0.41813	0.41813	0.010	18.30961	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.15127	0.17797	0.17797	0.010	17.65324	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.40319	0.47302	0.47302	0.010	17.31817	30.00000	Aver		
	30 Vinyl Acetate	0.43945	0.52239	0.52239	0.010	18.87419	30.00000	Aver		
	31 1,1-Dichloroethane	0.29418	0.35349	0.35349	0.010	20.16093	30.00000	Aver		
$	32 Hexane-d14(S)	0.37513	0.36712	0.36712	0.010	-2.13532	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.08007	0.08736	0.08736	0.010	9.11285	30.00000	Aver		
	34 n-Hexane	0.29582	0.34725	0.34725	0.010	17.38284	30.00000	Aver		
	35 Di-isopropyl Ether	0.58031	0.68487	0.68487	0.010	18.01847	30.00000	Aver		
	36 Ethyl Acetate	0.37982	0.44613	0.44613	0.010	17.45963	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.16587	0.19475	0.19475	0.010	17.40818	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.58893	0.68374	0.68374	0.010	16.09834	30.00000	Aver		
	39 Chloroform	0.32904	0.39322	0.39322	0.010	19.50359	30.00000	Aver		
	40 Tetrahydrofuran	0.22863	0.27301	0.27301	0.010	19.41452	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.42732	0.51213	0.51213	0.010	19.84714	30.00000	Aver		
	42 1,2-Dichloroethane	0.32794	0.39219	0.39219	0.010	19.59025	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 28-MAR-2017 09:50
Lab File ID: 08702.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.57680	0.67811	0.67811	0.010	17.56420	30.00000	Aver		
	44 Carbon tetrachloride	0.41321	0.50954	0.50954	0.010	23.31405	30.00000	Aver		
	45 Cyclohexane	0.33146	0.38527	0.38527	0.010	16.23648	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.87133	0.68218	0.010	18.71331	30.00000	Line		
	48 2,2,4-Trimethylpentane	1.01062	1.18242	1.18242	0.010	16.99871	30.00000	Aver		
	49 Heptane	0.36402	0.43966	0.43966	0.010	20.78068	30.00000	Aver		
	50 1,2-Dichloropropane	0.22682	0.27415	0.27415	0.010	20.86263	30.00000	Aver		
	51 Trichloroethene	0.30270	0.36276	0.36276	0.010	19.84062	30.00000	Aver		
	52 Methyl methacrylate	0.20605	0.24478	0.24478	0.010	18.79534	30.00000	Aver		
	53 1,4-Dioxane	0.14082	0.17169	0.17169	0.010	21.92502	30.00000	Aver		
	54 Bromodichloromethane	0.40173	0.51112	0.51112	0.010	27.22916	30.00000	Aver		
	55 Methylcyclohexane	0.17064	0.20147	0.20147	0.010	18.06289	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.49439	0.59882	0.59882	0.010	21.12208	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.32591	0.40503	0.40503	0.010	24.27575	30.00000	Aver		
	58 trans-1,3-Dichloropropene	10.00000	11.27528	0.37112	0.010	12.75278	30.00000	Line		
$	59 Toluene-d8 (S)	0.84305	0.87997	0.87997	0.010	4.37953	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.24057	0.28984	0.28984	0.010	20.47973	30.00000	Aver		
	61 Toluene	0.70188	0.85093	0.85093	0.010	21.23539	30.00000	Aver		
	62 Methyl Butyl Ketone	0.70333	0.85055	0.85055	0.010	20.93184	30.00000	Aver		
	63 n-Octane	0.78573	0.89078	0.89078	0.010	13.36941	30.00000	Aver		
	64 Dibromochloromethane	0.69204	0.85327	0.85327	0.010	23.29829	30.00000	Aver		
	65 1,2-Dibromoethane	0.62331	0.73292	0.73292	0.010	17.58616	30.00000	Aver		
	66 Tetrachloroethene	0.65492	0.70349	0.70349	0.010	7.41574	30.00000	Aver		
	68 Chlorobenzene	0.94970	1.08526	1.08526	0.010	14.27350	30.00000	Aver		
	69 Ethyl Benzene	1.46564	1.69171	1.69171	0.010	15.42438	30.00000	Aver		
	70 m&p-Xylene	1.11981	1.27283	1.27283	0.010	13.66483	30.00000	Aver		
	71 n-Nonane	0.69761	0.81722	0.81722	0.010	17.14544	30.00000	Aver		
	72 Bromoform	0.53416	0.67191	0.67191	0.010	25.78888	30.00000	Aver		
	73 Styrene	0.82284	0.99223	0.99223	0.010	20.58708	30.00000	Aver		
	74 o-Xylene	1.14924	1.30723	1.30723	0.010	13.74751	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.62364	0.75536	0.75536	0.010	21.12118	30.00000	Aver		
	76 Isopropylbenzene	1.55759	1.79013	1.79013	0.010	14.92925	30.00000	Aver		
	77 N-Propylbenzene	1.63599	2.01876	2.01876	0.010	23.39694	30.00000	Aver		
	78 4-Ethyltoluene	1.39044	1.70232	1.70232	0.010	22.43041	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.22171	1.45503	1.45503	0.010	19.09774	30.00000	Aver		
	80 n-Decane	0.43302	0.57422	0.57422	0.010	32.60814	30.00000	Aver		<-
	81 Tert-Butyl Benzene	1.30443	1.50485	1.50485	0.010	15.36446	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.08502	1.33157	1.33157	0.010	22.72380	30.00000	Aver		
	83 1,3-Dichlorobenzene	10.00000	11.32510	0.84636	0.010	13.25102	30.00000	Quad		
	84 Sec- Butylbenzene	1.53952	1.87894	1.87894	0.010	22.04738	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.47472	0.54905	0.54905	0.010	15.65918	30.00000	Aver	(M)	
	86 Benzyl Chloride	10.00000	10.62607	0.82136	0.010	6.26069	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\032817.b\08702.D
Report Date: 28-Mar-2017 10:33

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 28-MAR-2017 09:50
Lab File ID: 08702.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032817.b\TO15_086-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	10.00000	11.70464	0.83626	0.010	17.04639	30.00000	Line	
88 p-Isopropyltoluene	1.29538	1.63086	1.63086	0.010	25.89859	30.00000	Aver	
89 1,2,3-Trimethylbenzene	1.04466	1.28867	1.28867	0.010	23.35801	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	11.57667	0.78277	0.010	15.76675	30.00000	Line	
91 N-Butylbenzene	10.00000	11.92960	1.24543	0.010	19.29596	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.72581	0.25901	0.010	7.25812	30.00000	Quad	
93 1,2,4-Trichlorobenzene	10.00000	11.00432	0.18275	0.010	10.04324	30.00000	Quad	
94 Naphthalene	10.00000	11.15444	0.49697	0.010	11.54441	30.00000	Quad	
95 Hexachlorobutadiene	0.21547	0.25520	0.25520	0.010	18.44116	30.00000	Aver	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Average %D / Drift Results.
Calculated Average %D/Drift = 18.53476
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08801BFB.D BFB Injection Date: 03/29/2017
Instrument ID: 10AIRB BFB Injection Time: 08:28
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.10	
75	30.00 - 66.00% of mass 95	45.68	
96	5.00 - 9.00% of mass 95	6.94	
173	Less than 2.00% of mass 174	0.94	(1.16)
174	50.00 - 120.00% of mass 95	81.42	
175	4.00 - 9.00% of mass 174	5.88	(7.23)
176	93.00 - 101.00% of mass 174	80.10	(98.39)
177	5.00 - 9.00% of mass 176	5.23	(6.52)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	08802.D	03/29/2017	08:57
2	IC	IC	08812.D	03/29/2017	14:07
3	CERT	CERT	08813.D	03/29/2017	14:37
4	L15-VP-7_30_20170306 DL	10381335002	08839.D	03/30/2017	04:09

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 29-MAR-2017 08:57
Lab File ID: 08802.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032917.b\TO15_086-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	13.56874	0.13756	0.010	35.68740	30.00000	Quad		<-
	2 1,1-Difluoroethane	0.11380	0.15204	0.15204	0.010	33.60669	30.00000	Aver		<-
	3 Chlorodifluoromethane	0.05116	0.06878	0.06878	0.010	34.42843	30.00000	Aver		<-
	4 Propylene	0.14949	0.18913	0.18913	0.010	26.51244	30.00000	Aver		
	5 Dichlorodifluoromethane	0.55046	0.67823	0.67823	0.010	23.21089	30.00000	Aver	(H)	
	6 Chloromethane	0.22703	0.31582	0.31582	0.010	39.10920	30.00000	Aver		<-
	7 Dichlorotetrafluoroethane	0.49168	0.64170	0.64170	0.010	30.51061	30.00000	Aver		<-
	8 Vinyl chloride	0.18768	0.25258	0.25258	0.010	34.57557	30.00000	Aver		<-
	9 1,3-Butadiene	0.14175	0.19079	0.19079	0.010	34.59051	30.00000	Aver		<-
	10 Bromomethane	0.15012	0.18194	0.18194	0.010	21.19669	30.00000	Aver		
	11 Chloroethane	0.07942	0.10487	0.10487	0.010	32.04605	30.00000	Aver		<-
	12 Ethanol	0.06631	0.08856	0.08856	0.005	33.55593	30.00000	Aver		<-
	13 Vinyl Bromide	0.15115	0.18243	0.18243	0.010	20.69982	30.00000	Aver		
	14 Isopentane	0.18869	0.24613	0.24613	0.010	30.44027	30.00000	Aver		<-
	15 Freon 123	10.00000	10.88991	0.24244	0.010	8.89911	30.00000	Quad		
	16 Trichlorofluoromethane	0.38532	0.48828	0.48828	0.010	26.72154	30.00000	Aver		
	17 Acrolein	0.06060	0.07893	0.07893	0.010	30.25555	30.00000	Aver		<-
	18 Acetone	0.26126	0.33975	0.33975	0.010	30.04279	30.00000	Aver		<-
	19 Isopropyl Alcohol	0.29407	0.38011	0.38011	0.010	29.25740	30.00000	Aver		
	20 1,1-Dichloroethene	0.27126	0.34724	0.34724	0.010	28.01206	30.00000	Aver		
	21 Acrylonitrile	0.13332	0.17972	0.17972	0.010	34.80458	30.00000	Aver		<-
	22 Freon 113	0.30942	0.36698	0.36698	0.010	18.60413	30.00000	Aver		
	23 Methyl Acetate	0.42963	0.54611	0.54611	0.010	27.11153	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.37351	0.45516	0.45516	0.010	21.86095	30.00000	Aver		
	25 Methylene chloride	0.20028	0.25787	0.25787	0.010	28.75455	30.00000	Aver		
	26 Allyl Chloride	0.05286	0.05348	0.05348	0.010	1.17681	30.00000	Aver		
	27 Carbon Disulfide	0.35342	0.42615	0.42615	0.010	20.57877	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.15127	0.17750	0.17750	0.010	17.34280	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.40319	0.47193	0.47193	0.010	17.04772	30.00000	Aver		
	30 Vinyl Acetate	0.43945	0.56697	0.56697	0.010	29.01785	30.00000	Aver		
	31 1,1-Dichloroethane	0.29418	0.36928	0.36928	0.010	25.52782	30.00000	Aver		
$	32 Hexane-d14(S)	0.37513	0.35682	0.35682	0.010	-4.88083	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.08007	0.08952	0.08952	0.010	11.80946	30.00000	Aver		
	34 n-Hexane	0.29582	0.37392	0.37392	0.010	26.39909	30.00000	Aver	(M)	
	35 Di-isopropyl Ether	0.58031	0.75699	0.75699	0.010	30.44622	30.00000	Aver		<-
	36 Ethyl Acetate	0.37982	0.48953	0.48953	0.010	28.88593	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.16587	0.19471	0.19471	0.010	17.38524	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.58893	0.69274	0.69274	0.010	17.62624	30.00000	Aver		
	39 Chloroform	0.32904	0.40017	0.40017	0.010	21.61484	30.00000	Aver		
	40 Tetrahydrofuran	0.22863	0.30443	0.30443	0.010	33.15457	30.00000	Aver		<-
	41 1,1,1-Trichloroethane	0.42732	0.54862	0.54862	0.010	28.38575	30.00000	Aver		
	42 1,2-Dichloroethane	0.32794	0.42664	0.42664	0.010	30.09791	30.00000	Aver		<-

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 29-MAR-2017 08:57
Lab File ID: 08802.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032917.b\TO15_086-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.57680	0.72614	0.72614	0.010	25.89108	30.00000	Aver		
	44 Carbon tetrachloride	0.41321	0.53941	0.53941	0.010	30.54340	30.00000	Aver		<-
	45 Cyclohexane	0.33146	0.42302	0.42302	0.010	27.62512	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	12.52677	0.71914	0.010	25.26766	30.00000	Line		
	48 2,2,4-Trimethylpentane	1.01062	1.31348	1.31348	0.010	29.96692	30.00000	Aver		
	49 Heptane	0.36402	0.49193	0.49193	0.010	35.13743	30.00000	Aver		<-
	50 1,2-Dichloropropane	0.22682	0.29879	0.29879	0.010	31.72700	30.00000	Aver		<-
	51 Trichloroethene	0.30270	0.38135	0.38135	0.010	25.98195	30.00000	Aver		
	52 Methyl methacrylate	0.20605	0.26206	0.26206	0.010	27.18293	30.00000	Aver		
	53 1,4-Dioxane	0.14082	0.18461	0.18461	0.010	31.09603	30.00000	Aver		<-
	54 Bromodichloromethane	0.40173	0.55780	0.55780	0.010	38.84758	30.00000	Aver		<-
	55 Methylcyclohexane	0.17064	0.21561	0.21561	0.010	26.34860	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.49439	0.67479	0.67479	0.010	36.48898	30.00000	Aver		<-
	57 cis-1,3-Dichloropropene	0.32591	0.43169	0.43169	0.010	32.45764	30.00000	Aver		<-
	58 trans-1,3-Dichloropropene	10.00000	12.03803	0.39651	0.010	20.38029	30.00000	Line		
$	59 Toluene-d8 (S)	0.84305	0.88072	0.88072	0.010	4.46856	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.24057	0.31073	0.31073	0.010	29.16603	30.00000	Aver		
	61 Toluene	0.70188	0.91408	0.91408	0.010	30.23238	30.00000	Aver		<-
	62 Methyl Butyl Ketone	0.70333	0.96852	0.96852	0.010	37.70567	30.00000	Aver		<-
	63 n-Octane	0.78573	1.02163	1.02163	0.010	30.02354	30.00000	Aver		<-
	64 Dibromochloromethane	0.69204	0.91123	0.91123	0.010	31.67279	30.00000	Aver		<-
	65 1,2-Dibromoethane	0.62331	0.81210	0.81210	0.010	30.28951	30.00000	Aver		<-
	66 Tetrachloroethene	0.65492	0.73370	0.73370	0.010	12.02857	30.00000	Aver		
	68 Chlorobenzene	0.94970	1.16465	1.16465	0.010	22.63348	30.00000	Aver		
	69 Ethyl Benzene	1.46564	1.87959	1.87959	0.010	28.24339	30.00000	Aver		
	70 m&p-Xylene	1.11981	1.39842	1.39842	0.010	24.88089	30.00000	Aver		
	71 n-Nonane	0.69761	0.92578	0.92578	0.010	32.70663	30.00000	Aver		<-
	72 Bromoform	0.53416	0.69723	0.69723	0.010	30.52903	30.00000	Aver		<-
	73 Styrene	0.82284	1.10306	1.10306	0.010	34.05615	30.00000	Aver		<-
	74 o-Xylene	1.14924	1.44267	1.44267	0.010	25.53249	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.62364	0.83353	0.83353	0.010	33.65618	30.00000	Aver		<-
	76 Isopropylbenzene	1.55759	1.96279	1.96279	0.010	26.01474	30.00000	Aver		
	77 N-Propylbenzene	1.63599	2.26407	2.26407	0.010	38.39159	30.00000	Aver		<-
	78 4-Ethyltoluene	1.39044	1.91701	1.91701	0.010	37.87092	30.00000	Aver		<-
	79 1,3,5-Trimethylbenzene	1.22171	1.60667	1.60667	0.010	31.50957	30.00000	Aver		<-
	80 n-Decane	0.43302	0.63994	0.63994	0.010	47.78529	30.00000	Aver		<-
	81 Tert-Butyl Benzene	1.30443	1.62698	1.62698	0.010	24.72736	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.08502	1.47198	1.47198	0.010	35.66472	30.00000	Aver		<-
	83 1,3-Dichlorobenzene	10.00000	12.25401	0.91113	0.010	22.54014	30.00000	Quad		
	84 Sec- Butylbenzene	1.53952	2.08197	2.08197	0.010	35.23525	30.00000	Aver		<-
$	85 1,4-dichlorobenzene-d4 (S)	0.47472	0.54532	0.54532	0.010	14.87146	30.00000	Aver		
	86 Benzyl Chloride	10.00000	11.29253	0.87389	0.010	12.92530	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\032917.b\08802.D
Report Date: 29-Mar-2017 09:27

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 29-MAR-2017 08:57
Lab File ID: 08802.D Init. Cal. Date(s): 27-MAR-2017 27-MAR-2017
Analysis Type: AIR Init. Cal. Times: 13:08 15:56
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\032917.b\TO15_086-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	10.00000	12.67411	0.90559	0.010	26.74111	30.00000	Line		
88 p-Isopropyltoluene	1.29538	1.77674	1.77674	0.010	37.16043	30.00000	Aver		<-
89 1,2,3-Trimethylbenzene	1.04466	1.43019	1.43019	0.010	36.90487	30.00000	Aver		<-
90 1,2-Dichlorobenzene	10.00000	12.67825	0.85744	0.010	26.78254	30.00000	Line		
91 N-Butylbenzene	10.00000	13.34747	1.39298	0.010	33.47468	30.00000	Line		<-
92 1,2-Dibromo-3-Chloropropane	10.00000	11.32132	0.27414	0.010	13.21320	30.00000	Quad		
93 1,2,4-Trichlorobenzene	10.00000	12.28395	0.20915	0.010	22.83951	30.00000	Quad		
94 Naphthalene	10.00000	12.83716	0.58508	0.010	28.37160	30.00000	Quad		
95 Hexachlorobutadiene	0.21547	0.28377	0.28377	0.010	31.70192	30.00000	Aver		<-

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 27.34803
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08841BFB.D BFB Injection Date: 03/30/2017
Instrument ID: 10AIRB BFB Injection Time: 05:04
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.87	
75	30.00 - 66.00% of mass 95	44.23	
96	5.00 - 9.00% of mass 95	6.62	
173	Less than 2.00% of mass 174	1.08	(1.27)
174	50.00 - 120.00% of mass 95	84.66	
175	4.00 - 9.00% of mass 174	6.19	(7.31)
176	93.00 - 101.00% of mass 174	81.97	(96.82)
177	5.00 - 9.00% of mass 176	5.09	(6.21)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL2	CAL2	08842.D	03/30/2017	05:32
2	CAL3	CAL3	08843.D	03/30/2017	05:59
3	CAL4	CAL4	08844.D	03/30/2017	06:27
4	CAL5	CAL5	08849.D	03/30/2017	09:10
5	CAL6	CAL6	08850.D	03/30/2017	09:39
6	CAL7	CAL7	08851.D	03/30/2017	10:08
7	ICV	ICV	08853.D	03/30/2017	11:03

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\033017.b\08841.D
Level 02: all \\192.168.10.12\chem\10airB.i\033017.b\08842.D
Level 03: all \\192.168.10.12\chem\10airB.i\033017.b\08843.D
Level 04: all \\192.168.10.12\chem\10airB.i\033017.b\08844.D
Level 05: all \\192.168.10.12\chem\10airB.i\033017.b\08849.D
Level 06: all \\192.168.10.12\chem\10airB.i\033017.b\08850.D
Level 07: all \\192.168.10.12\chem\10airB.i\033017.b\08851.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	7661	19042	23502	32931	236811	306716	+++++	QUAD	0.00168	0.17468	-0.04701	0.99897
2 1,1-Difluoroethane	0.14470	0.14990	0.15492	0.13433	0.18627	0.16777						
	0.17332							AVRG		0.15874		11.31957
3 Chlorodifluoromethane	0.06307	0.05817	0.06531	0.06307	0.07836	0.07098						
	0.07201							AVRG		0.06728		10.17462
4 Propylene	0.21393	0.19516	0.20601	0.18814	0.23231	0.20927						
	0.21561							AVRG		0.20863		6.90795

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	0.80855	0.69433	0.69210	0.64343	0.78531	0.70817					
	0.71242						AVRG		0.72061		7.93186
6 Chloromethane	0.28882	0.27134	0.29641	0.28320	0.37584	0.33941					
	0.34777						AVRG		0.31468		12.52360
7 Dichlorotetrafluoroethane	0.59861	0.60575	0.65230	0.60074	0.76334	0.67285					
	0.67949						AVRG		0.65330		9.09701
8 Vinyl chloride	0.26773	0.23284	0.23241	0.22051	0.30612	0.28362					
	0.29463						AVRG		0.26255		12.96931
9 1,3-Butadiene	0.20072	0.15999	0.19000	0.17472	0.24143	0.22242					
	0.22961						AVRG		0.20270		14.78085
10 Bromomethane	0.19482	0.17806	0.18678	0.17691	0.23960	0.21526					
	0.22857						AVRG		0.20286		12.36655
11 Chloroethane	2142	4156	11689	22521	240735	456874					
	689787						LINR	-0.00134	0.12804		0.99843

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.08558	0.07957	0.08724	0.08138	0.12349	0.10654	0.10552	AVRG		0.09562		17.21299
13 Vinyl Bromide	0.17080	0.17189	0.18259	0.17113	0.23375	0.20839	0.21283	AVRG		0.19305		13.06269
14 Isopentane	0.26516	0.25401	0.27078	0.24180	0.30638	0.27661	0.27857	AVRG		0.27047		7.56881
15 Freon 123	0.41159	0.40370	0.31667	0.23738	0.33932	0.27012	0.26567	AVRG		0.32064		21.32161
16 Trichlorofluoromethane	0.45688	0.47046	0.49292	0.48038	0.60321	0.54406	0.55320	AVRG		0.51444		10.38661
17 Acrolein	0.06880	0.06552	0.07523	0.07183	0.09811	0.08852	0.08908	AVRG		0.07958		15.44519
18 Acetone	0.35173	0.34505	0.35925	0.33571	0.42575	0.36359	0.35303	AVRG		0.36202		8.16244

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
19 Isopropyl Alcohol	0.35809	0.35896	0.38545	0.36273	0.51389	0.42100					
	0.39482						AVRG		0.39928		13.89793
20 1,1-Dichloroethene	0.31949	0.29719	0.34685	0.33270	0.43638	0.39139					
	0.39946						AVRG		0.36049		13.81398
21 Acrylonitrile	0.12179	0.15606	0.16216	0.17044	0.22550	0.19682					
	0.19402						AVRG		0.17525		19.15792
22 Freon 113	0.37471	0.37648	0.37645	0.38634	0.46152	0.40140					
	0.39439						AVRG		0.39590		7.74022
23 Methyl Acetate	0.57042	0.56242	0.59109	0.55555	0.68503	0.58123					
	0.56305						AVRG		0.58697		7.65098
24 Tert Butyl Alcohol (TBA)	0.45510	0.46014	0.47880	0.46533	0.59582	0.49564					
	0.46627						AVRG		0.48816		10.10981
25 Methylene chloride	0.28517	0.26726	0.27920	0.26065	0.31682	0.27234					
	0.26403						AVRG		0.27792		6.89510

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Allyl Chloride	0.05593	0.06004	0.06654	0.06366	0.06675	0.05889						
	0.05792							AVRG		0.06139		6.98432
27 Carbon Disulfide	7099	13839	38289	79743	982032	1869447						
	2717474							LINR	-0.00393	0.51038		0.99918
28 trans-1,2-dichloroethene	0.16912	0.15799	0.16168	0.16913	0.22614	0.20618						
	0.20977							AVRG		0.18572		14.79248
29 Methyl Tert Butyl Ether	0.50271	0.48427	0.51395	0.48385	0.60518	0.52845						
	0.52601							AVRG		0.52063		7.95040
30 Vinyl Acetate	0.47846	0.47768	0.52850	0.51242	0.70310	0.64983						
	0.67776							AVRG		0.57539		17.00388
31 1,1-Dichloroethane	0.37166	0.35503	0.37325	0.35264	0.46081	0.41940						
	0.43516							AVRG		0.39542		10.80300
33 Methyl Ethyl Ketone	0.09480	0.09787	0.09637	0.09115	0.11399	0.10248						
	0.10623							AVRG		0.10041		7.74342

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
34 n-Hexane	0.37658	0.38475	0.37634	0.35683	0.50855	0.41865					
	0.42251						AVRG		0.40632		12.53527
35 Di-isopropyl Ether	0.72753	0.70249	0.77868	0.72231	1.08991	0.83042					
	0.84262						AVRG		0.81342		16.40014
36 Ethyl Acetate	0.47217	0.44988	0.48052	0.45701	0.72851	0.54309					
	0.55091						AVRG		0.52601		18.60099
37 cis-1,2-Dichloroethene	0.19155	0.18614	0.18712	0.18122	0.30376	0.22505					
	0.22758						AVRG		0.21463		20.34256
38 Ethyl Tert-Butyl Ether	0.80112	0.78037	0.79843	0.80161	1.02279	0.81257					
	0.75319						AVRG		0.82430		10.87846
39 Chloroform	0.39590	0.40491	0.39714	0.40332	0.56380	0.46091					
	0.45220						AVRG		0.43974		13.85489
40 Tetrahydrofuran	0.25669	0.29226	0.27872	0.27090	0.37339	0.33830					
	0.35340						AVRG		0.30910		14.68480

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.47359	0.42743	0.47922	0.47328	0.65570	0.56804					
	0.56747						AVRG		0.52067		15.19183
42 1,2-Dichloroethane	0.39971	0.38077	0.40792	0.39339	0.50158	0.44026					
	0.43952						AVRG		0.42331		9.72847
43 Benzene	0.70081	0.71483	0.72670	0.67277	0.89409	0.78051					
	0.77122						AVRG		0.75156		9.76099
44 Carbon tetrachloride	0.35716	0.35580	0.44000	0.43581	0.63417	0.54929					
	0.54191						AVRG		0.47345		22.18109
45 Cyclohexane	0.42466	0.36862	0.41591	0.41096	0.51183	0.44405					
	0.42774						AVRG		0.42911		10.09075
46 Tert Amyl Methyl Ether	34911	48921	96808	165850	1592959	2903397					
	4171919						LINR	0.01414	0.78074		0.99848
48 2,2,4-Trimethylpentane	1.29692	1.24840	1.34005	1.28499	1.58041	1.25992					
	1.13981						AVRG		1.30721		10.35942

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
49 Heptane	0.44904	0.46192	0.45922	0.45073	0.59579	0.53372					
	0.54162						AVRG		0.49886		11.62365
50 1,2-Dichloropropane	0.28812	0.25854	0.26989	0.26547	0.36088	0.31894					
	0.32343						AVRG		0.29790		12.66674
51 Trichloroethene	0.34050	0.34330	0.35304	0.35364	0.46273	0.41315					
	0.41602						AVRG		0.38320		12.37747
52 Methyl methacrylate	0.19128	0.22415	0.22222	0.22679	0.31593	0.28359					
	0.28537						AVRG		0.24990		18.00880
53 1,4-Dioxane	0.16970	0.14386	0.18084	0.16319	0.24209	0.20581					
	0.19628						AVRG		0.18596		17.33189
54 Bromodichloromethane	7702	16391	47273	100637	1178006	2134763					
	3023630						LINR	0.00431	0.57159		0.99791
55 Methylcyclohexane	0.17816	0.18778	0.19765	0.19208	0.25895	0.23459					
	0.24126						AVRG		0.21292		14.72598

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
56 Methyl Isobutyl Ketone	0.58162	0.56638	0.64442	0.61285	0.81162	0.69293					
	0.65793						AVRG		0.65254		12.67781
57 cis-1,3-Dichloropropene	5856	13323	37776	77747	939571	1791065					
	2582667						LINR	-0.00281	0.48600		0.99925
58 trans-1,3-Dichloropropene	4499	10341	29568	63447	849630	1650392					
	2427525						LINR	-0.00743	0.45505		0.99926
60 1,1,2-Trichloroethane	0.26268	0.26841	0.29072	0.28566	0.36947	0.32550					
	0.32024						AVRG		0.30324		12.40912
61 Toluene	0.89586	0.79620	0.88427	0.83987	1.08702	0.96008					
	0.94570						AVRG		0.91557		10.32637
62 Methyl Butyl Ketone	0.79772	0.81517	0.86153	0.86259	1.13776	0.99146					
	0.91057						AVRG		0.91097		13.04271
63 n-Octane	0.99967	0.95533	1.06731	1.02187	1.19764	1.05263					
	1.01381						AVRG		1.04404		7.36247

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
64 Dibromochloromethane	6681	14918	43549	95227	1271324	2394030					
	3444502						QUAD	-0.01287	1.07930	-0.05346	0.99946
65 1,2-Dibromoethane	0.69300	0.72322	0.74008	0.74942	0.93817	0.83731					
	0.81211						AVRG		0.78476		10.72398
66 Tetrachloroethene	0.88450	0.81259	0.81127	0.79454	0.87411	0.77084					
	0.75257						AVRG		0.81435		6.05879
68 Chlorobenzene	1.14392	1.14215	1.16436	1.14122	1.37391	1.23533					
	1.20150						AVRG		1.20034		7.02886
69 Ethyl Benzene	1.76188	1.76258	1.87447	1.84361	2.17516	1.92861					
	1.82722						AVRG		1.88193		7.55647
70 m&p-Xylene	1.34609	1.33838	1.47445	1.44627	1.63434	1.38975					
	1.27935						AVRG		1.41552		8.27277
71 n-Nonane	0.83247	0.83961	0.92828	0.95858	1.09709	0.92970					
	0.84464						AVRG		0.91862		10.21211

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
72 Bromoform	3873	8852	28792	60035	994818	1854041					
	2619674						QUAD	-0.01553	0.86326	-0.05411	0.99940
73 Styrene	0.89617	0.96519	1.02093	1.01222	1.26747	1.12287					
	1.07969						AVRG		1.05208		11.41826
74 o-Xylene	1.36387	1.39546	1.46094	1.44166	1.65817	1.46394					
	1.40021						AVRG		1.45489		6.66538
75 1,1,2,2-Tetrachloroethane	0.64521	0.65675	0.70986	0.71869	0.96654	0.87595					
	0.85268						AVRG		0.77510		15.90213
76 Isopropylbenzene	1.83805	1.91302	1.98650	1.96884	2.28149	2.01006					
	1.91787						AVRG		1.98798		7.11440
77 N-Propylbenzene	1.57574	1.71248	1.99954	2.03960	2.60043	2.30149					
	2.19996						AVRG		2.06132		16.91354
78 4-Ethyltoluene	1.31672	1.43330	1.67191	1.71401	2.18149	1.96884					
	1.89345						AVRG		1.73996		17.39078

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	1.27148	1.26689	1.48346	1.49720	1.85144	1.63667					
	1.57030						AVRG		1.51106		13.59269
80 n-Decane	8443	18589	50512	105755	1404513	2710658					
	3875989						LINR	-0.00620	0.73170		0.99938
81 Tert-Butyl Benzene	1.40007	1.45925	1.62039	1.59399	1.90141	1.64077					
	1.55173						AVRG		1.59537		10.07218
82 1,2,4-Trimethylbenzene	1.22241	1.15791	1.36717	1.35057	1.68822	1.44664					
	1.35242						AVRG		1.36933		12.45741
83 1,3-Dichlorobenzene	7405	14378	41995	91614	1294688	2415338					
	3410621						QUAD	-0.01576	1.12012	-0.06965	0.99949
84 Sec- Butylbenzene	1.80664	1.82161	1.97653	1.94216	2.41389	2.04730					
	1.90301						AVRG		1.98731		10.37213
86 Benzyl Chloride	3612	6150	17889	41629	1255068	2627518					
	3897775						LINR	-0.02986	1.05212		0.99968

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
87 1,4-Dichlorobenzene	6984	14140	41493	84162	1284979	2503713					
	3628632						LINR	0.00079	0.98060		0.99872
88 p-Isopropyltoluene	1.37802	1.38636	1.51074	1.54883	2.06878	1.82502					
	1.74340						AVRG		1.63731		15.50563
89 1,2,3-Trimethylbenzene	1.12338	1.11943	1.26369	1.26993	1.64865	1.46396					
	1.40080						AVRG		1.32712		14.41134
90 1,2-Dichlorobenzene	6129	13826	37547	77914	1213886	2355982					
	3442996						QUAD	-0.01588	1.02318	-0.03424	0.99959
91 N-Butylbenzene	8636	17717	58227	126541	1956695	3751898					
	5346956						QUAD	-0.02957	1.69313	-0.08711	0.99965
92 1,2-Dibromo-3-Chloropropane	765	1716	7188	16753	397742	838929					
	1282136						LINR	-0.01138	0.34303		0.99960
93 1,2,4-Trichlorobenzene	+++++	533	3385	8856	306602	730178					
	1195809						QUAD	-0.00994	0.23516	0.02908	0.99989

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	1420	3072	14223	34038	844564	1864986					
	2958201						QUAD	-0.01822	0.66377	0.04352	0.99982
95 Hexachlorobutadiene	2940	6121	16296	32853	396921	787402					
	1155441						LINR	0.00076	0.31023		0.99946
$ 32 Hexane-d14(S)	0.38172	0.37229	0.38249	0.37548	0.37347	0.38920					
	0.39795						AVRG		0.38180		2.42896
$ 59 Toluene-d8 (S)	0.80073	0.78989	0.81795	0.80588	0.87515	0.89373					
	0.92714						AVRG		0.84435		6.35709
$ 85 1,4-dichlorobenzene-d4 (S)	0.35705	0.37096	0.39195	0.42324	0.53721	0.54382					
	0.56730						AVRG		0.45593		19.79963

Report Date : 03-Apr-2017 09:10

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2017 05:04
End Cal Date : 30-MAR-2017 10:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m
Last Edit : 03-Apr-2017 09:04 nkoller

Average %RSD Results.	
Calculated Average %RSD =	12.07017
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 08931BFB.D BFB Injection Date: 03/31/2017
Instrument ID: 10AIRB BFB Injection Time: 03:03
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.11	
75	30.00 - 66.00% of mass 95	46.06	
96	5.00 - 9.00% of mass 95	6.85	
173	Less than 2.00% of mass 174	0.82	(0.95)
174	50.00 - 120.00% of mass 95	86.24	
175	4.00 - 9.00% of mass 174	5.94	(6.88)
176	93.00 - 101.00% of mass 174	82.20	(95.31)
177	5.00 - 9.00% of mass 176	5.13	(6.24)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	08932.D	03/31/2017	03:32
2	LCS for HBN 466603 [AIR/28049]	2549872	08932_28049.D	03/31/2017	03:32
3	2547845 (LCS)	2547845	08932_28033.D	03/31/2017	03:32
4	BLANK for HBN 466603 [AIR/2804	2549871	08934_28049.D	03/31/2017	04:29
5	CERT	CERT	08935.D	03/31/2017	05:00
6	VP-3_10_20170307	10381335011	08936.D	03/31/2017	05:31
7	VP-3D_40_20170307	10381335013	08937.D	03/31/2017	06:02
8	VP-107_44_20170306	10381335007	08938.D	03/31/2017	06:30
9	VP-108_29.5_20170307	10381335020	08941.D	03/31/2017	07:53
10	VP-108_20_20170307 DL	10381335019	08947.D	03/31/2017	10:50
11	VP-107_60_20170306 DL	10381335008	08948.D	03/31/2017	11:19

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 31-MAR-2017 03:32
Lab File ID: 08932.D Init. Cal. Date(s): 30-MAR-2017 30-MAR-2017
Analysis Type: AIR Init. Cal. Times: 05:04 10:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	11.07646	0.13749	0.010	10.76464	30.00000	Quad		
	2 1,1-Difluoroethane	0.15874	0.17857	0.17857	0.010	12.48975	30.00000	Aver		
	3 Chlorodifluoromethane	0.06728	0.07531	0.07531	0.010	11.93140	30.00000	Aver	(QH)	
	4 Propylene	0.20863	0.21459	0.21459	0.010	2.85429	30.00000	Aver		
	5 Dichlorodifluoromethane	0.72061	0.74840	0.74840	0.010	3.85604	30.00000	Aver	(H)	
	6 Chloromethane	0.31468	0.36440	0.36440	0.010	15.80006	30.00000	Aver	(H)	
	7 Dichlorotetrafluoroethane	0.65330	0.72561	0.72561	0.010	11.06822	30.00000	Aver	(H)	
	8 Vinyl chloride	0.26255	0.30261	0.30261	0.010	15.25804	30.00000	Aver	(H)	
	9 1,3-Butadiene	0.20270	0.25030	0.25030	0.010	23.48464	30.00000	Aver		
	10 Bromomethane	0.20286	0.27414	0.27414	0.010	35.13760	30.00000	Aver		<-
	11 Chloroethane	10.00000	11.68023	0.14822	0.010	16.80229	30.00000	Line		
	12 Ethanol	0.09562	0.12402	0.12402	0.005	29.70431	30.00000	Aver	(M)	
	13 Vinyl Bromide	0.19305	0.26512	0.26512	0.010	37.32874	30.00000	Aver		<-
	14 Isopentane	0.27047	0.44950	0.44950	0.010	66.19213	30.00000	Aver		<-
	15 Freon 123	0.32064	0.38870	0.38870	0.010	21.22761	30.00000	Aver	(H)	
	16 Trichlorofluoromethane	0.51444	0.70734	0.70734	0.010	37.49545	30.00000	Aver	(H)	<-
	17 Acrolein	0.07958	0.10793	0.10793	0.010	35.62302	30.00000	Aver	(H)	<-
	18 Acetone	0.36202	0.48226	0.48226	0.010	33.21615	30.00000	Aver	(H)	<-
	19 Isopropyl Alcohol	0.39928	0.56621	0.56621	0.010	41.80764	30.00000	Aver	(M)	<-
	20 1,1-Dichloroethene	0.36049	0.48771	0.48771	0.010	35.28928	30.00000	Aver		<-
	21 Acrylonitrile	0.17525	0.24068	0.24068	0.010	37.32956	30.00000	Aver	(H)	<-
	22 Freon 113	0.39590	0.56476	0.56476	0.010	42.65150	30.00000	Aver		<-
	23 Methyl Acetate	0.58697	0.58657	0.58657	0.010	-0.06878	30.00000	Aver	(QM)	
	24 Tert Butyl Alcohol (TBA)	0.48816	0.66709	0.66709	0.010	36.65351	30.00000	Aver	(QM)	<-
	25 Methylene chloride	0.27792	0.34968	0.34968	0.010	25.81671	30.00000	Aver	(H)	
	26 Allyl Chloride	0.06139	0.07848	0.07848	0.010	27.84357	30.00000	Aver	(QH)	
	27 Carbon Disulfide	10.00000	13.24079	0.67185	0.010	32.40787	30.00000	Line	(H)	<-
	28 trans-1,2-dichloroethene	0.18572	0.29036	0.29036	0.010	56.34898	30.00000	Aver		<-
	29 Methyl Tert Butyl Ether	0.52063	0.78356	0.78356	0.010	50.50065	30.00000	Aver		<-
	30 Vinyl Acetate	0.57539	0.82097	0.82097	0.010	42.67960	30.00000	Aver	(H)	<-
	31 1,1-Dichloroethane	0.39542	0.58254	0.58254	0.010	47.32128	30.00000	Aver	(H)	<-
$	32 Hexane-d14(S)	0.38180	0.46450	0.46450	0.010	21.66108	30.00000	Aver	(H)	
	33 Methyl Ethyl Ketone	0.10041	0.14627	0.14627	0.010	45.66379	30.00000	Aver	(QM)	<-
	34 n-Hexane	0.40632	0.56305	0.56305	0.010	38.57441	30.00000	Aver	(QMH)	<-
	35 Di-isopropyl Ether	0.81342	1.12907	1.12907	0.010	38.80442	30.00000	Aver		<-
	36 Ethyl Acetate	0.52601	0.72941	0.72941	0.010	38.66727	30.00000	Aver		<-
	37 cis-1,2-Dichloroethene	0.21463	0.32202	0.32202	0.010	50.03710	30.00000	Aver		<-
	38 Ethyl Tert-Butyl Ether	0.82430	1.05235	1.05235	0.010	27.66627	30.00000	Aver	(H)	
	39 Chloroform	0.43974	0.58945	0.58945	0.010	34.04526	30.00000	Aver		<-
	40 Tetrahydrofuran	0.30910	0.36799	0.36799	0.010	19.05421	30.00000	Aver	(H)	
	41 1,1,1-Trichloroethane	0.52067	0.66261	0.66261	0.010	27.26024	30.00000	Aver		
	42 1,2-Dichloroethane	0.42331	0.50113	0.50113	0.010	18.38507	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 31-MAR-2017 03:32
Lab File ID: 08932.D Init. Cal. Date(s): 30-MAR-2017 30-MAR-2017
Analysis Type: AIR Init. Cal. Times: 05:04 10:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.75156	0.86206	0.86206	0.010	14.70195	30.00000	Aver		
	44 Carbon tetrachloride	0.47345	0.62892	0.62892	0.010	32.83861	30.00000	Aver		<-
	45 Cyclohexane	0.42911	0.49755	0.49755	0.010	15.94988	30.00000	Aver	(H)	
	46 Tert Amyl Methyl Ether	10.00000	10.88893	0.86429	0.010	8.88935	30.00000	Line		
	48 2,2,4-Trimethylpentane	1.30721	1.55367	1.55367	0.010	18.85325	30.00000	Aver		
	49 Heptane	0.49886	0.57934	0.57934	0.010	16.13195	30.00000	Aver	(H)	
	50 1,2-Dichloropropane	0.29790	0.35324	0.35324	0.010	18.57782	30.00000	Aver	(H)	
	51 Trichloroethene	0.38320	0.44194	0.44194	0.010	15.32990	30.00000	Aver		
	52 Methyl methacrylate	0.24990	0.31281	0.31281	0.010	25.17203	30.00000	Aver		
	53 1,4-Dioxane	0.18596	0.21975	0.21975	0.010	18.16658	30.00000	Aver		
	54 Bromodichloromethane	10.00000	11.08569	0.63795	0.010	10.85693	30.00000	Line	(H)	
	55 Methylcyclohexane	0.21292	0.25254	0.25254	0.010	18.60419	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.65254	0.79507	0.79507	0.010	21.84337	30.00000	Aver	(H)	
	57 cis-1,3-Dichloropropene	10.00000	10.60478	0.51258	0.010	6.04777	30.00000	Line		
	58 trans-1,3-Dichloropropene	10.00000	10.34539	0.46334	0.010	3.45388	30.00000	Line		
$	59 Toluene-d8 (S)	0.84435	0.86330	0.86330	0.010	2.24408	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.30324	0.36198	0.36198	0.010	19.37281	30.00000	Aver		
	61 Toluene	0.91557	1.06925	1.06925	0.010	16.78525	30.00000	Aver		
	62 Methyl Butyl Ketone	0.91097	1.14630	1.14630	0.010	25.83314	30.00000	Aver		
	63 n-Octane	1.04404	1.17193	1.17193	0.010	12.25021	30.00000	Aver		
	64 Dibromochloromethane	10.00000	10.61651	1.07272	0.010	6.16508	30.00000	Quad		
	65 1,2-Dibromoethane	0.78476	0.93862	0.93862	0.010	19.60613	30.00000	Aver		
	66 Tetrachloroethene	0.81435	0.86393	0.86393	0.010	6.08823	30.00000	Aver		
	68 Chlorobenzene	1.20034	1.35803	1.35803	0.010	13.13663	30.00000	Aver		
	69 Ethyl Benzene	1.88193	2.16354	2.16354	0.010	14.96372	30.00000	Aver		
	70 m&p-Xylene	1.41552	1.62324	1.62324	0.010	14.67444	30.00000	Aver		
	71 n-Nonane	0.91862	1.10813	1.10813	0.010	20.62876	30.00000	Aver		
	72 Bromoform	10.00000	10.62542	0.84064	0.010	6.25419	30.00000	Quad		
	73 Styrene	1.05208	1.26046	1.26046	0.010	19.80713	30.00000	Aver		
	74 o-Xylene	1.45489	1.66008	1.66008	0.010	14.10308	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.77510	0.97415	0.97415	0.010	25.68039	30.00000	Aver		
	76 Isopropylbenzene	1.98798	2.27012	2.27012	0.010	14.19229	30.00000	Aver		
	77 N-Propylbenzene	2.06132	2.59015	2.59015	0.010	25.65464	30.00000	Aver		
	78 4-Ethyltoluene	1.73996	2.21881	2.21881	0.010	27.52080	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.51106	1.85991	1.85991	0.010	23.08616	30.00000	Aver		
	80 n-Decane	10.00000	10.48617	0.76107	0.010	4.86172	30.00000	Line		
	81 Tert-Butyl Benzene	1.59537	1.89410	1.89410	0.010	18.72443	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.36933	1.68914	1.68914	0.010	23.35506	30.00000	Aver		
	83 1,3-Dichlorobenzene	10.00000	10.28983	1.06309	0.010	2.89825	30.00000	Quad		
	84 Sec- Butylbenzene	1.98731	2.39840	2.39840	0.010	20.68584	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.45593	0.53397	0.53397	0.010	17.11546	30.00000	Aver		
	86 Benzyl Chloride	10.00000	10.36601	1.06077	0.010	3.66008	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\033017.b\08932.D
Report Date: 04-Apr-2017 11:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 31-MAR-2017 03:32
Lab File ID: 08932.D Init. Cal. Date(s): 30-MAR-2017 30-MAR-2017
Analysis Type: AIR Init. Cal. Times: 05:04 10:08
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\033017.b\TO15_088-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	10.00000	10.84504	1.06426	0.010	8.45043	30.00000	Line	
88 p-Isopropyltoluene	1.63731	2.07541	2.07541	0.010	26.75757	30.00000	Aver	
89 1,2,3-Trimethylbenzene	1.32712	1.64941	1.64941	0.010	24.28490	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.38082	1.00937	0.010	3.80821	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.37570	1.63338	0.010	3.75702	30.00000	Quad	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.03911	0.33300	0.010	0.39107	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.79342	0.24826	0.010	-2.06584	30.00000	Quad	
94 Naphthalene	10.00000	9.81319	0.67507	0.010	-1.86814	30.00000	Quad	
95 Hexachlorobutadiene	10.00000	10.71345	0.33312	0.010	7.13447	30.00000	Line	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 21.50597
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09001BFB.D BFB Injection Date: 03/31/2017
Instrument ID: 10AIRB BFB Injection Time: 15:14
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.92	
75	30.00 - 66.00% of mass 95	43.75	
96	5.00 - 9.00% of mass 95	6.59	
173	Less than 2.00% of mass 174	0.97	(1.19)
174	50.00 - 120.00% of mass 95	81.14	
175	4.00 - 9.00% of mass 174	5.85	(7.21)
176	93.00 - 101.00% of mass 174	79.13	(97.53)
177	5.00 - 9.00% of mass 176	5.26	(6.65)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	09002.D	03/31/2017	15:41
2	CAL2	CAL2	09003.D	03/31/2017	16:09
3	CAL3	CAL3	09004.D	03/31/2017	16:36
4	CAL4	CAL4	09005.D	03/31/2017	17:04
5	CAL5	CAL5	09006.D	03/31/2017	17:31
6	CAL6	CAL6	09007.D	03/31/2017	17:59
7	CAL7	CAL7	09008.D	03/31/2017	18:28
8	LCS (LCS)	LCS	09010_LCS.D	03/31/2017	19:23
9	ICV	ICV	09010.D	03/31/2017	19:23

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\033117.b\09002.D
Level 02: all \\192.168.10.12\chem\10airB.i\033117.b\09003.D
Level 03: all \\192.168.10.12\chem\10airB.i\033117.b\09004.D
Level 04: all \\192.168.10.12\chem\10airB.i\033117.b\09005.D
Level 05: all \\192.168.10.12\chem\10airB.i\033117.b\09006.D
Level 06: all \\192.168.10.12\chem\10airB.i\033117.b\09007.D
Level 07: all \\192.168.10.12\chem\10airB.i\033117.b\09008.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	9586	14120	25179	36763	390962	+++++	+++++	LINR	0.00187	0.19971		0.99942
2 1,1-Difluoroethane	0.17725	0.15302	0.14778	0.15390	0.15265	0.15346	0.15413	AVRG		0.15603		6.15502
3 Chlorodifluoromethane	0.07274	0.07627	0.07634	0.06859	0.06687	0.06611	0.06422	AVRG		0.07016		7.05645
4 Propylene	0.23965	0.19858	0.19223	0.18496	0.19491	0.19034	0.18819	AVRG		0.19841		9.43279

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Dichlorodifluoromethane	0.98913	0.75991	0.73827	0.70595	0.66659	0.65283	0.65047	AVRG		0.73759		16.09772
6 Chloromethane	0.35948	0.30712	0.32857	0.31290	0.32354	0.30917	0.31872	AVRG		0.32279		5.54953
7 Dichlorotetrafluoroethane	0.65194	0.65021	0.68245	0.64812	0.62841	0.61560	0.60437	AVRG		0.64016		4.09029
8 Vinyl chloride	0.26675	0.22584	0.25230	0.24837	0.26915	0.25411	0.26056	AVRG		0.25387		5.71380
9 1,3-Butadiene	0.21597	0.17730	0.20994	0.20896	0.20658	0.19950	0.20260	AVRG		0.20298		6.15904
10 Bromomethane	0.18603	0.19750	0.19452	0.19186	0.20063	0.19518	0.19645	AVRG		0.19460		2.38700
11 Chloroethane	0.10890	0.09903	0.11455	0.10203	0.10976	0.10945	0.11239	AVRG		0.10802		5.13012

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Ethanol	0.11152	0.09083	0.09128	0.08752	0.08659	0.09076					
	0.08957						AVRG		0.09258		9.22370
13 Vinyl Bromide	0.19176	0.18154	0.19423	0.18086	0.19455	0.18748					
	0.18218						AVRG		0.18751		3.23625
14 Isopentane	0.27656	0.28019	0.28513	0.26562	0.26829	0.23858					
	0.25396						AVRG		0.26690		6.07093
15 Freon 123	0.42954	0.44870	0.48522	0.43377	0.44098	0.42897					
	0.42740						AVRG		0.44208		4.63548
16 Trichlorofluoromethane	0.48069	0.47142	0.55063	0.50869	0.51250	0.48766					
	0.48615						AVRG		0.49968		5.37503
17 Acrolein	0.08243	0.08611	0.08352	0.07709	0.09178	0.08759					
	0.08798						AVRG		0.08522		5.54104
18 Acetone	0.41680	0.36748	0.36928	0.35316	0.34719	0.32976					
	0.31507						AVRG		0.35696		9.18364

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	0.50883	0.41452	0.40899	0.39058	0.39416	0.36648	0.34675	AVRG		0.40433		12.80538
20 1,1-Dichloroethene	0.38176	0.33472	0.37327	0.35234	0.36348	0.35098	0.35042	AVRG		0.35814		4.42754
21 Acrylonitrile	0.22544	0.19419	0.18801	0.18543	0.19139	0.18192	0.16904	AVRG		0.19077		9.08144
22 Freon 113	0.48568	0.44012	0.44275	0.40854	0.39263	0.36235	0.35166	AVRG		0.41196		11.58159
23 Methyl Acetate	0.71552	0.61267	0.64292	0.59490	0.58599	0.52949	0.50586	AVRG		0.59819		11.69816
24 Tert Butyl Alcohol (TBA)	0.64205	0.51214	0.50503	0.46412	0.47782	0.42592	0.41248	AVRG		0.49137		15.48942
25 Methylene chloride	0.36169	0.29856	0.30466	0.27657	0.27195	0.24782	0.23630	AVRG		0.28536		14.62188

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Allyl Chloride	0.06306	0.05885	0.06994	0.06066	0.07884	0.07244					
	0.07033						AVRG		0.06773		10.57567
27 Carbon Disulfide	0.51369	0.41049	0.42016	0.39088	0.45714	0.44607					
	0.43871						AVRG		0.43959		9.02242
28 trans-1,2-dichloroethene	0.26365	0.17602	0.19585	0.17485	0.19292	0.18836					
	0.18393						AVRG		0.19651		15.59444
29 Methyl Tert Butyl Ether	0.62508	0.52235	0.51461	0.48834	0.49123	0.47631					
	0.46043						AVRG		0.51119		10.66134
30 Vinyl Acetate	0.74643	0.57513	0.61323	0.55805	0.64394	0.65311					
	0.64536						AVRG		0.63361		9.74995
31 1,1-Dichloroethane	0.38187	0.37848	0.40382	0.36998	0.39116	0.38403					
	0.37976						AVRG		0.38416		2.79839
33 Methyl Ethyl Ketone	0.14227	0.09919	0.10245	0.08497	0.09097	0.09292					
	0.09396						AVRG		0.10096		18.88287

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.48509	0.39926	0.38906	0.34459	0.35871	0.35275					
	0.35822						AVRG		0.38395		12.71955
35 Di-isopropyl Ether	1.04259	0.78383	0.79446	0.75290	0.76832	0.75715					
	0.74806						AVRG		0.80676		13.05713
36 Ethyl Acetate	0.66201	0.52926	0.51051	0.55730	0.50227	0.50036					
	0.49216						AVRG		0.53627		11.12532
37 cis-1,2-Dichloroethene	0.25358	0.21628	0.21838	0.20994	0.21374	0.20449					
	0.20027						AVRG		0.21667		8.07450
38 Ethyl Tert-Butyl Ether	0.89539	0.73196	0.87404	0.85649	0.71962	0.63014					
	0.58679						AVRG		0.75635		16.17786
39 Chloroform	0.40158	0.36915	0.47724	0.47656	0.42206	0.35433					
	0.33620						AVRG		0.40530		13.96721
40 Tetrahydrofuran	0.34780	0.31470	0.31625	0.29426	0.30245	0.30405					
	0.30979						AVRG		0.31276		5.50240

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.53260	0.50626	0.54263	0.52066	0.54425	0.51900					
	0.50169						AVRG		0.52387		3.19405
42 1,2-Dichloroethane	0.49317	0.43966	0.43184	0.41910	0.42978	0.40592					
	0.39240						AVRG		0.43027		7.47110
43 Benzene	0.85624	0.76039	0.77103	0.73815	0.75076	0.71804					
	0.68420						AVRG		0.75411		7.10212
44 Carbon tetrachloride	0.51942	0.49529	0.52647	0.52815	0.56994	0.53251					
	0.50787						AVRG		0.52566		4.45633
45 Cyclohexane	0.50185	0.46057	0.44377	0.42487	0.43112	0.39882					
	0.37940						AVRG		0.43434		9.26423
46 Tert Amyl Methyl Ether	+++++	1.16780	0.89032	0.77000	0.69522	0.68304					
	0.67858						AVRG		0.81416		23.46821
48 2,2,4-Trimethylpentane	1.46837	1.41037	1.47438	1.39935	1.33681	1.16908					
	1.03744						AVRG		1.32797		12.40261

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
49 Heptane	0.62607	0.48722	0.52833	0.50044	0.50170	0.49553					
	0.48688						AVRG		0.51802		9.58126
50 1,2-Dichloropropane	0.36344	0.30254	0.30792	0.29421	0.30764	0.29692					
	0.28773						AVRG		0.30863		8.18024
51 Trichloroethene	0.51439	0.40664	0.40019	0.37693	0.39184	0.37656					
	0.37266						AVRG		0.40560		12.24676
52 Methyl methacrylate	0.33591	0.28821	0.25172	0.25562	0.26325	0.25702					
	0.25641						AVRG		0.27259		11.17538
53 1,4-Dioxane	0.20242	0.20562	0.18835	0.17150	0.17929	0.17981					
	0.17442						AVRG		0.18592		7.24219
54 Bromodichloromethane	0.57695	0.47352	0.52861	0.52132	0.56734	0.53806					
	0.51321						AVRG		0.53129		6.52053
55 Methylcyclohexane	0.22096	0.20649	0.21465	0.20936	0.22020	0.21863					
	0.21747						AVRG		0.21540		2.57797

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
56 Methyl Isobutyl Ketone	0.89379	0.71999	0.71798	0.67977	0.69579	0.64439					
	0.59602						AVRG		0.70682		13.20677
57 cis-1,3-Dichloropropene	0.47325	0.35334	0.38897	0.37526	0.44920	0.44171					
	0.43577						AVRG		0.41679		10.61473
58 trans-1,3-Dichloropropene	0.35915	0.28736	0.30786	0.32601	0.42693	0.42577					
	0.42370						AVRG		0.36525		16.51051
60 1,1,2-Trichloroethane	0.42075	0.32079	0.32638	0.31292	0.32016	0.30509					
	0.29369						AVRG		0.32854		12.82158
61 Toluene	1.18974	0.99099	0.98884	0.92897	0.93756	0.89819					
	0.84965						AVRG		0.96913		11.26012
62 Methyl Butyl Ketone	1.16651	1.00490	1.00086	0.96695	1.04668	0.96444					
	0.88428						AVRG		1.00495		8.66604
63 n-Octane	1.38353	1.08574	1.20487	1.12757	1.13543	1.04869					
	0.98836						AVRG		1.13917		11.21649

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	1.03806	0.89190	0.98409	0.92966	1.03560	0.97273	0.91830	AVRG		0.96719		5.89220
65 1,2-Dibromoethane	1.03992	0.90712	0.86947	0.85029	0.91056	0.84402	0.79846	AVRG		0.88855		8.67728
66 Tetrachloroethene	1.12607	1.01774	0.89436	0.83517	0.82290	0.76780	0.73414	AVRG		0.88546		15.88182
68 Chlorobenzene	1.83073	1.39493	1.34714	1.28270	1.31219	1.24571	1.19142	AVRG		1.37212		15.50836
69 Ethyl Benzene	2.60614	2.13301	2.21595	2.08385	2.08417	1.93454	1.80868	AVRG		2.12376		11.84220
70 m&p-Xylene	2.00267	1.66128	1.72051	1.59824	1.59176	1.39656	1.26180	AVRG		1.60469		14.74937
71 n-Nonane	1.23894	1.04699	1.12747	1.07625	1.08032	0.91837	0.81847	AVRG		1.04383		13.20448

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
72 Bromoform	0.69102	0.61624	0.68269	0.69847	0.86633	0.80497						
							0.74461	AVRG		0.72919		11.48850
73 Styrene	1.44260	1.21671	1.21185	1.14613	1.23834	1.13069						
							1.06106	AVRG		1.20677		10.00333
74 o-Xylene	2.10126	1.74923	1.75058	1.62998	1.62389	1.47944						
							1.37235	AVRG		1.67239		13.96668
75 1,1,2,2-Tetrachloroethane	1.11736	0.89826	0.94568	0.91728	0.97325	0.89950						
							0.85972	AVRG		0.94443		8.94271
76 Isopropylbenzene	3.15193	2.40126	2.32414	2.23629	2.29537	2.05830						
							1.90989	AVRG		2.33960		16.92089
77 N-Propylbenzene	2.75833	2.21278	2.34820	2.36798	2.61832	2.37311						
							2.21124	AVRG		2.41285		8.46032
78 4-Ethyltoluene	2.16228	1.87361	2.01140	2.01331	2.23814	2.05884						
							1.91419	AVRG		2.03882		6.31949

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	2.24148	1.71184	1.82902	1.74650	1.89644	1.70591					
	1.59271						AVRG		1.81770		11.56868
80 n-Decane	0.65430	0.57066	0.53781	0.56067	0.72355	0.70367					
	0.68629						AVRG		0.63385		11.99128
81 Tert-Butyl Benzene	2.37503	1.89982	1.93870	1.85826	1.95654	1.72116					
	1.58174						AVRG		1.90446		12.95480
82 1,2,4-Trimethylbenzene	1.98459	1.55211	1.66666	1.60674	1.75199	1.51551					
	1.37699						AVRG		1.63637		11.84463
83 1,3-Dichlorobenzene	1.13516	0.82407	0.87521	0.89534	1.09168	1.00951					
	0.94551						AVRG		0.96807		11.93331
84 Sec- Butylbenzene	2.95903	2.33362	2.38580	2.34061	2.48521	2.13638					
	1.92918						AVRG		2.36712		13.48660
86 Benzyl Chloride	5209	7332	21586	50393	1234809	2654134					
	3922939						LINR	-0.02604	1.07658		0.99955

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
87 1,4-Dichlorobenzene	0.97852	0.79813	0.79423	0.87110	1.09023	1.02812	0.99145	AVRG		0.93597		12.37351
88 p-Isopropyltoluene	2.40350	1.89905	1.94720	1.89965	2.12910	1.90336	1.77572	AVRG		1.99394		10.47836
89 1,2,3-Trimethylbenzene	1.92097	1.64433	1.61967	1.53804	1.72283	1.53916	1.41823	AVRG		1.62903		9.87089
90 1,2-Dichlorobenzene	0.94764	0.77701	0.84427	0.80607	1.03674	0.98505	0.94374	AVRG		0.90579		10.75413
91 N-Butylbenzene	1.39382	1.15307	1.35009	1.31627	1.69259	1.55998	1.46443	AVRG		1.41861		12.32582
92 1,2-Dibromo-3-Chloropropane	1867	3780	10751	24950	423435	898432	1374980	LINR	-0.00858	0.37287		0.99987
93 1,2,4-Trichlorobenzene	995	1140	5571	12694	349267	829633	1338595	QUAD	-0.00899	0.28745	0.02595	0.99976

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
94 Naphthalene	3517	5345	18445	48803	976344	2179418						
							3430223	LINR	-0.03710	0.92494		0.99896
95 Hexachlorobutadiene	4811	8239	20899	37073	439951	855441						
							1268941	LINR	0.00473	0.34472		0.99913
$ 32 Hexane-d14(S)	0.38927	0.37653	0.36979	0.36033	0.37495	0.38393						
							0.38599	AVRG		0.37726		2.67982
$ 59 Toluene-d8 (S)	0.82217	0.80126	0.81670	0.82089	0.84586	0.86576						
							0.89211	AVRG		0.83782		3.80768
$ 85 1,4-dichlorobenzene-d4 (S)	0.37665	0.36324	0.39535	0.42624	0.51851	0.52293						
							0.56004	AVRG		0.45185		17.74062

Report Date : 01-Apr-2017 12:01

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 31-MAR-2017 15:41
End Cal Date : 31-MAR-2017 18:28
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\033117.b\TO15_090-17.m
Last Edit : 01-Apr-2017 11:58 10airB.i

Average %RSD Results.	
Calculated Average %RSD =	10.04022
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09101BFB.D BFB Injection Date: 04/01/2017
Instrument ID: 10AIRB BFB Injection Time: 07:03
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.54	
75	30.00 - 66.00% of mass 95	44.94	
96	5.00 - 9.00% of mass 95	6.30	
173	Less than 2.00% of mass 174	0.74	(0.91)
174	50.00 - 120.00% of mass 95	81.59	
175	4.00 - 9.00% of mass 174	5.88	(7.21)
176	93.00 - 101.00% of mass 174	77.79	(95.34)
177	5.00 - 9.00% of mass 176	4.89	(6.29)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	09102.D	04/01/2017	07:31
2	CERT	CERT	09105.D	04/01/2017	09:04
3	VP-107_20_20170306 DL	10381335005	09124.D	04/01/2017	19:21
4	VP-107_33.5_20170306 DL	10381335006	09125.D	04/01/2017	19:50
5	VP-108D_60_20170307 DL	10381335022	09126.D	04/01/2017	20:17
6	VP-108_29.5_20170307 DL	10381335020	09127.D	04/01/2017	20:45

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 01-APR-2017 07:31
Lab File ID: 09102.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	4.46302	0.09100	0.010	-55.36981	30.00000	Line		<-
	2 1,1-Difluoroethane	0.15603	0.17271	0.17271	0.010	10.69079	30.00000	Aver		
	3 Chlorodifluoromethane	0.07016	0.07342	0.07342	0.010	4.64237	30.00000	Aver		
	4 Propylene	0.19841	0.22168	0.22168	0.010	11.72920	30.00000	Aver		
	5 Dichlorodifluoromethane	0.73759	0.75248	0.75248	0.010	2.01789	30.00000	Aver		
	6 Chloromethane	0.32279	0.35837	0.35837	0.010	11.02382	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.64016	0.71714	0.71714	0.010	12.02486	30.00000	Aver		
	8 Vinyl chloride	0.25387	0.29142	0.29142	0.010	14.79086	30.00000	Aver		
	9 1,3-Butadiene	0.20298	0.22496	0.22496	0.010	10.82794	30.00000	Aver		
	10 Bromomethane	0.19460	0.22275	0.22275	0.010	14.47002	30.00000	Aver		
	11 Chloroethane	0.10802	0.12384	0.12384	0.010	14.65155	30.00000	Aver		
	12 Ethanol	0.09258	0.10474	0.10474	0.005	13.13490	30.00000	Aver		
	13 Vinyl Bromide	0.18751	0.21477	0.21477	0.010	14.53464	30.00000	Aver		
	14 Isopentane	0.26690	0.29074	0.29074	0.010	8.93064	30.00000	Aver		
	15 Freon 123	0.44208	0.49455	0.49455	0.010	11.86795	30.00000	Aver	(M)	
	16 Trichlorofluoromethane	0.49968	0.57183	0.57183	0.010	14.43988	30.00000	Aver		
	17 Acrolein	0.08522	0.10208	0.10208	0.010	19.78624	30.00000	Aver		
	18 Acetone	0.35696	0.39157	0.39157	0.010	9.69534	30.00000	Aver		
	19 Isopropyl Alcohol	0.40433	0.44445	0.44445	0.010	9.92298	30.00000	Aver		
	20 1,1-Dichloroethene	0.35814	0.39945	0.39945	0.010	11.53487	30.00000	Aver		
	21 Acrylonitrile	0.19077	0.20743	0.20743	0.010	8.73173	30.00000	Aver		
	22 Freon 113	0.41196	0.43739	0.43739	0.010	6.17239	30.00000	Aver		
	23 Methyl Acetate	0.59819	0.64186	0.64186	0.010	7.29963	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.49137	0.51233	0.51233	0.010	4.26556	30.00000	Aver		
	25 Methylene chloride	0.28536	0.29692	0.29692	0.010	4.04902	30.00000	Aver		
	26 Allyl Chloride	0.06773	0.08667	0.08667	0.010	27.96508	30.00000	Aver		
	27 Carbon Disulfide	0.43959	0.50395	0.50395	0.010	14.64093	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.19651	0.21321	0.21321	0.010	8.50036	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.51119	0.55527	0.55527	0.010	8.62215	30.00000	Aver		
	30 Vinyl Acetate	0.63361	0.71989	0.71989	0.010	13.61842	30.00000	Aver		
	31 1,1-Dichloroethane	0.38416	0.42997	0.42997	0.010	11.92726	30.00000	Aver		
$	32 Hexane-d14(S)	0.37726	0.36709	0.36709	0.010	-2.69595	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.10096	0.10536	0.10536	0.010	4.35315	30.00000	Aver	(Q)	
	34 n-Hexane	0.38395	0.42882	0.42882	0.010	11.68493	30.00000	Aver	(QM)	
	35 Di-isopropyl Ether	0.80676	0.86392	0.86392	0.010	7.08484	30.00000	Aver		
	36 Ethyl Acetate	0.53627	0.56321	0.56321	0.010	5.02431	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.21667	0.23014	0.23014	0.010	6.21744	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.75635	0.82831	0.82831	0.010	9.51416	30.00000	Aver		
	39 Chloroform	0.40530	0.47615	0.47615	0.010	17.48150	30.00000	Aver		
	40 Tetrahydrofuran	0.31276	0.34178	0.34178	0.010	9.27888	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.52387	0.60716	0.60716	0.010	15.89823	30.00000	Aver		
	42 1,2-Dichloroethane	0.43027	0.46828	0.46828	0.010	8.83407	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 01-APR-2017 07:31
Lab File ID: 09102.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	43 Benzene	0.75411	0.82468	0.82468	0.010	9.35686	30.00000	Aver	
	44 Carbon tetrachloride	0.52566	0.61881	0.61881	0.010	17.72027	30.00000	Aver	
	45 Cyclohexane	0.43434	0.47730	0.47730	0.010	9.89063	30.00000	Aver	
	46 Tert Amyl Methyl Ether	0.81416	0.78601	0.78601	0.010	-3.45703	30.00000	Aver	
	48 2,2,4-Trimethylpentane	1.32797	1.48397	1.48397	0.010	11.74677	30.00000	Aver	
	49 Heptane	0.51802	0.56513	0.56513	0.010	9.09318	30.00000	Aver	
	50 1,2-Dichloropropane	0.30863	0.33650	0.33650	0.010	9.02896	30.00000	Aver	
	51 Trichloroethene	0.40560	0.42526	0.42526	0.010	4.84700	30.00000	Aver	
	52 Methyl methacrylate	0.27259	0.29305	0.29305	0.010	7.50707	30.00000	Aver	
	53 1,4-Dioxane	0.18592	0.20798	0.20798	0.010	11.86868	30.00000	Aver	
	54 Bromodichloromethane	0.53129	0.61697	0.61697	0.010	16.12761	30.00000	Aver	
	55 Methylcyclohexane	0.21540	0.24302	0.24302	0.010	12.82259	30.00000	Aver	
	56 Methyl Isobutyl Ketone	0.70682	0.76903	0.76903	0.010	8.80190	30.00000	Aver	
	57 cis-1,3-Dichloropropene	0.41679	0.48972	0.48972	0.010	17.49890	30.00000	Aver	
	58 trans-1,3-Dichloropropene	0.36525	0.45840	0.45840	0.010	25.50095	30.00000	Aver	
$	59 Toluene-d8 (S)	0.83782	0.86457	0.86457	0.010	3.19281	30.00000	Aver	
	60 1,1,2-Trichloroethane	0.32854	0.35395	0.35395	0.010	7.73339	30.00000	Aver	
	61 Toluene	0.96913	1.03216	1.03216	0.010	6.50342	30.00000	Aver	
	62 Methyl Butyl Ketone	1.00495	1.11595	1.11595	0.010	11.04567	30.00000	Aver	
	63 n-Octane	1.13917	1.17912	1.17912	0.010	3.50730	30.00000	Aver	
	64 Dibromochloromethane	0.96719	1.07096	1.07096	0.010	10.72884	30.00000	Aver	
	65 1,2-Dibromoethane	0.88855	0.93373	0.93373	0.010	5.08550	30.00000	Aver	
	66 Tetrachloroethene	0.88546	0.84323	0.84323	0.010	-4.76834	30.00000	Aver	
	68 Chlorobenzene	1.37212	1.36744	1.36744	0.010	-0.34101	30.00000	Aver	
	69 Ethyl Benzene	2.12376	2.18997	2.18997	0.010	3.11761	30.00000	Aver	
	70 m&p-Xylene	1.60469	1.63648	1.63648	0.010	1.98154	30.00000	Aver	
	71 n-Nonane	1.04383	1.10665	1.10665	0.010	6.01871	30.00000	Aver	
	72 Bromoform	0.72919	0.90757	0.90757	0.010	24.46227	30.00000	Aver	
	73 Styrene	1.20677	1.30658	1.30658	0.010	8.27117	30.00000	Aver	
	74 o-Xylene	1.67239	1.69296	1.69296	0.010	1.23034	30.00000	Aver	
	75 1,1,2,2-Tetrachloroethane	0.94443	1.00719	1.00719	0.010	6.64533	30.00000	Aver	
	76 Isopropylbenzene	2.33960	2.32996	2.32996	0.010	-0.41193	30.00000	Aver	
	77 N-Propylbenzene	2.41285	2.69930	2.69930	0.010	11.87176	30.00000	Aver	
	78 4-Ethyltoluene	2.03882	2.28582	2.28582	0.010	12.11484	30.00000	Aver	
	79 1,3,5-Trimethylbenzene	1.81770	1.92727	1.92727	0.010	6.02792	30.00000	Aver	
	80 n-Decane	0.63385	0.80560	0.80560	0.010	27.09632	30.00000	Aver	
	81 Tert-Butyl Benzene	1.90446	2.00188	2.00188	0.010	5.11503	30.00000	Aver	
	82 1,2,4-Trimethylbenzene	1.63637	1.77152	1.77152	0.010	8.25922	30.00000	Aver	
	83 1,3-Dichlorobenzene	0.96807	1.15372	1.15372	0.010	19.17779	30.00000	Aver	
	84 Sec- Butylbenzene	2.36712	2.52969	2.52969	0.010	6.86801	30.00000	Aver	
$	85 1,4-dichlorobenzene-d4 (S)	0.45185	0.54238	0.54238	0.010	20.03529	30.00000	Aver	
	86 Benzyl Chloride	10.00000	10.97980	1.15603	0.010	9.79803	30.00000	Line	

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040117.b\09102.D
Report Date: 01-Apr-2017 12:01

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 01-APR-2017 07:31
Lab File ID: 09102.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040117.b\TO15_090-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.93597	1.12827	1.12827	0.010	20.54504	30.00000	Aver	
88 p-Isopropyltoluene	1.99394	2.20570	2.20570	0.010	10.62001	30.00000	Aver	
89 1,2,3-Trimethylbenzene	1.62903	1.75904	1.75904	0.010	7.98039	30.00000	Aver	
90 1,2-Dichlorobenzene	0.90579	1.09026	1.09026	0.010	20.36564	30.00000	Aver	
91 N-Butylbenzene	1.41861	1.76538	1.76538	0.010	24.44447	30.00000	Aver	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.44465	0.38087	0.010	4.44649	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	10.31529	0.31513	0.010	3.15292	30.00000	Quad	
94 Naphthalene	10.00000	9.72651	0.86255	0.010	-2.73487	30.00000	Line	
95 Hexachlorobutadiene	10.00000	11.58062	0.40394	0.010	15.80617	30.00000	Line	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Average %D / Drift Results.
Calculated Average %D/Drift = 10.82495
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09201BFB.D BFB Injection Date: 04/02/2017
Instrument ID: 10AIRB BFB Injection Time: 08:27
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	23.27	
75	30.00 - 66.00% of mass 95	45.31	
96	5.00 - 9.00% of mass 95	6.44	
173	Less than 2.00% of mass 174	0.86	(1.05)
174	50.00 - 120.00% of mass 95	81.71	
175	4.00 - 9.00% of mass 174	6.01	(7.36)
176	93.00 - 101.00% of mass 174	79.22	(96.95)
177	5.00 - 9.00% of mass 176	5.00	(6.31)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	09202.D	04/02/2017	08:56
2	LCS for HBN 466636 [AIR/28055]	2550308	09202L.D	04/02/2017	08:56
3	BLANK for HBN 466636 [AIR/2805	2550307	09205L.D	04/02/2017	10:38
4	VP-108D_50.5_20170307	10381335021	09206.D	04/02/2017	11:06
5	VP-108D_50.5_20...(2533120DUP)	2550945-DUP	09207.D	04/02/2017	11:33
6	VP-108D_50.5_20170307 should be field duplicate	10381335024	09208.D	04/02/2017	12:01

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 02-APR-2017 08:56
Lab File ID: 09202.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
1	Chloropentafluoroethane	10.00000	7.82152	0.15807	0.010	-21.78477	30.00000	Line		
2	1,1-Difluoroethane	0.15603	0.18231	0.18231	0.010	16.84260	30.00000	Aver		
3	Chlorodifluoromethane	0.07016	0.07818	0.07818	0.010	11.41879	30.00000	Aver		
4	Propylene	0.19841	0.22572	0.22572	0.010	13.76710	30.00000	Aver		
5	Dichlorodifluoromethane	0.73759	0.78813	0.78813	0.010	6.85122	30.00000	Aver	(H)	
6	Chloromethane	0.32279	0.37667	0.37667	0.010	16.69305	30.00000	Aver		
7	Dichlorotetrafluoroethane	0.64016	0.74741	0.74741	0.010	16.75468	30.00000	Aver		
8	Vinyl chloride	0.25387	0.29248	0.29248	0.010	15.21006	30.00000	Aver		
9	1,3-Butadiene	0.20298	0.23378	0.23378	0.010	15.17485	30.00000	Aver		
10	Bromomethane	0.19460	0.23060	0.23060	0.010	18.50289	30.00000	Aver		
11	Chloroethane	0.10802	0.12813	0.12813	0.010	18.62418	30.00000	Aver		
12	Ethanol	0.09258	0.11069	0.11069	0.005	19.56023	30.00000	Aver		
13	Vinyl Bromide	0.18751	0.22987	0.22987	0.010	22.58663	30.00000	Aver		
14	Isopentane	0.26690	0.29858	0.29858	0.010	11.86896	30.00000	Aver		
15	Freon 123	0.44208	0.51972	0.51972	0.010	17.56084	30.00000	Aver	(M)	
16	Trichlorofluoromethane	0.49968	0.59477	0.59477	0.010	19.03104	30.00000	Aver		
17	Acrolein	0.08522	0.10677	0.10677	0.010	25.28941	30.00000	Aver		
18	Acetone	0.35696	0.41094	0.41094	0.010	15.12168	30.00000	Aver		
19	Isopropyl Alcohol	0.40433	0.46754	0.46754	0.010	15.63220	30.00000	Aver		
20	1,1-Dichloroethene	0.35814	0.42640	0.42640	0.010	19.06122	30.00000	Aver		
21	Acrylonitrile	0.19077	0.22191	0.22191	0.010	16.32185	30.00000	Aver		
22	Freon 113	0.41196	0.45170	0.45170	0.010	9.64703	30.00000	Aver		
23	Methyl Acetate	0.59819	0.66220	0.66220	0.010	10.70066	30.00000	Aver		
24	Tert Butyl Alcohol (TBA)	0.49137	0.53211	0.53211	0.010	8.29183	30.00000	Aver		
25	Methylene chloride	0.28536	0.31374	0.31374	0.010	9.94447	30.00000	Aver		
26	Allyl Chloride	0.06773	0.08985	0.08985	0.010	32.65560	30.00000	Aver		<-
27	Carbon Disulfide	0.43959	0.52255	0.52255	0.010	18.87247	30.00000	Aver		
28	trans-1,2-dichloroethene	0.19651	0.21850	0.21850	0.010	11.19111	30.00000	Aver		
29	Methyl Tert Butyl Ether	0.51119	0.56830	0.56830	0.010	11.17079	30.00000	Aver		
30	Vinyl Acetate	0.63361	0.75519	0.75519	0.010	19.18838	30.00000	Aver		
31	1,1-Dichloroethane	0.38416	0.44981	0.44981	0.010	17.08937	30.00000	Aver		
$ 32	Hexane-d14(S)	0.37726	0.37204	0.37204	0.010	-1.38303	30.00000	Aver		
33	Methyl Ethyl Ketone	0.10096	0.10887	0.10887	0.010	7.82871	30.00000	Aver		
34	n-Hexane	0.38395	0.42078	0.42078	0.010	9.59165	30.00000	Aver	(M)	
35	Di-isopropyl Ether	0.80676	0.91351	0.91351	0.010	13.23145	30.00000	Aver		
36	Ethyl Acetate	0.53627	0.59165	0.59165	0.010	10.32738	30.00000	Aver		
37	cis-1,2-Dichloroethene	0.21667	0.24413	0.24413	0.010	12.67185	30.00000	Aver		
38	Ethyl Tert-Butyl Ether	0.75635	0.93563	0.93563	0.010	23.70296	30.00000	Aver		
39	Chloroform	0.40530	0.53184	0.53184	0.010	31.22182	30.00000	Aver		<-
40	Tetrahydrofuran	0.31276	0.35966	0.35966	0.010	14.99508	30.00000	Aver		
41	1,1,1-Trichloroethane	0.52387	0.63154	0.63154	0.010	20.55177	30.00000	Aver		
42	1,2-Dichloroethane	0.43027	0.49087	0.49087	0.010	14.08478	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 02-APR-2017 08:56
Lab File ID: 09202.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.75411	0.86845	0.86845	0.010	15.16192	30.00000	Aver		
	44 Carbon tetrachloride	0.52566	0.65624	0.65624	0.010	24.84032	30.00000	Aver		
	45 Cyclohexane	0.43434	0.50215	0.50215	0.010	15.61152	30.00000	Aver		
	46 Tert Amyl Methyl Ether	0.81416	0.81337	0.81337	0.010	-0.09663	30.00000	Aver		
	48 2,2,4-Trimethylpentane	1.32797	1.55525	1.55525	0.010	17.11464	30.00000	Aver		
	49 Heptane	0.51802	0.58951	0.58951	0.010	13.79967	30.00000	Aver		
	50 1,2-Dichloropropane	0.30863	0.35033	0.35033	0.010	13.51220	30.00000	Aver		
	51 Trichloroethene	0.40560	0.43997	0.43997	0.010	8.47441	30.00000	Aver		
	52 Methyl methacrylate	0.27259	0.31159	0.31159	0.010	14.30855	30.00000	Aver		
	53 1,4-Dioxane	0.18592	0.21813	0.21813	0.010	17.32933	30.00000	Aver		
	54 Bromodichloromethane	0.53129	0.65143	0.65143	0.010	22.61285	30.00000	Aver		
	55 Methylcyclohexane	0.21540	0.25312	0.25312	0.010	17.51398	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.70682	0.81309	0.81309	0.010	15.03478	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.41679	0.50767	0.50767	0.010	21.80525	30.00000	Aver		
	58 trans-1,3-Dichloropropene	0.36525	0.47911	0.47911	0.010	31.17031	30.00000	Aver		<-
$	59 Toluene-d8 (S)	0.83782	0.86158	0.86158	0.010	2.83542	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.32854	0.37188	0.37188	0.010	13.19131	30.00000	Aver		
	61 Toluene	0.96913	1.08431	1.08431	0.010	11.88479	30.00000	Aver		
	62 Methyl Butyl Ketone	1.00495	1.17199	1.17199	0.010	16.62199	30.00000	Aver		
	63 n-Octane	1.13917	1.25626	1.25626	0.010	10.27833	30.00000	Aver		
	64 Dibromochloromethane	0.96719	1.13740	1.13740	0.010	17.59822	30.00000	Aver		
	65 1,2-Dibromoethane	0.88855	0.98200	0.98200	0.010	10.51704	30.00000	Aver		
	66 Tetrachloroethene	0.88546	0.87602	0.87602	0.010	-1.06534	30.00000	Aver		
	68 Chlorobenzene	1.37212	1.42326	1.42326	0.010	3.72774	30.00000	Aver		
	69 Ethyl Benzene	2.12376	2.28522	2.28522	0.010	7.60236	30.00000	Aver		
	70 m&p-Xylene	1.60469	1.71414	1.71414	0.010	6.82071	30.00000	Aver		
	71 n-Nonane	1.04383	1.17727	1.17727	0.010	12.78356	30.00000	Aver		
	72 Bromoform	0.72919	0.92866	0.92866	0.010	27.35487	30.00000	Aver		
	73 Styrene	1.20677	1.34359	1.34359	0.010	11.33792	30.00000	Aver		
	74 o-Xylene	1.67239	1.76557	1.76557	0.010	5.57171	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.94443	1.04175	1.04175	0.010	10.30425	30.00000	Aver		
	76 Isopropylbenzene	2.33960	2.44328	2.44328	0.010	4.43176	30.00000	Aver		
	77 N-Propylbenzene	2.41285	2.80914	2.80914	0.010	16.42405	30.00000	Aver		
	78 4-Ethyltoluene	2.03882	2.40800	2.40800	0.010	18.10743	30.00000	Aver	(M)	
	79 1,3,5-Trimethylbenzene	1.81770	2.00495	2.00495	0.010	10.30160	30.00000	Aver		
	80 n-Decane	0.63385	0.83960	0.83960	0.010	32.46052	30.00000	Aver		<-
	81 Tert-Butyl Benzene	1.90446	2.07080	2.07080	0.010	8.73407	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.63637	1.87138	1.87138	0.010	14.36143	30.00000	Aver		
	83 1,3-Dichlorobenzene	0.96807	1.18254	1.18254	0.010	22.15404	30.00000	Aver		
	84 Sec- Butylbenzene	2.36712	2.65019	2.65019	0.010	11.95852	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.45185	0.54094	0.54094	0.010	19.71616	30.00000	Aver		
	86 Benzyl Chloride	10.00000	11.20030	1.17976	0.010	12.00300	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\040217.b\09202.D
Report Date: 02-Apr-2017 08:16

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 02-APR-2017 08:56
Lab File ID: 09202.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040217.b\TO15_090-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.93597	1.16420	1.16420	0.010	24.38408	30.00000	Aver		
88 p-Isopropyltoluene	1.99394	2.28914	2.28914	0.010	14.80463	30.00000	Aver		
89 1,2,3-Trimethylbenzene	1.62903	1.82029	1.82029	0.010	11.74031	30.00000	Aver		
90 1,2-Dichlorobenzene	0.90579	1.10255	1.10255	0.010	21.72233	30.00000	Aver		
91 N-Butylbenzene	1.41861	1.85250	1.85250	0.010	30.58582	30.00000	Aver		<-
92 1,2-Dibromo-3-Chloropropane	10.00000	10.61429	0.38720	0.010	6.14285	30.00000	Line		
93 1,2,4-Trichlorobenzene	10.00000	10.25767	0.31317	0.010	2.57667	30.00000	Quad		
94 Naphthalene	10.00000	9.74863	0.86459	0.010	-2.51374	30.00000	Line		
95 Hexachlorobutadiene	10.00000	11.60389	0.40474	0.010	16.03894	30.00000	Line		

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Average %D / Drift Results.
Calculated Average %D/Drift = 14.84994
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09301BFB.D BFB Injection Date: 04/03/2017
Instrument ID: 10AIRB BFB Injection Time: 09:44
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.24	
75	30.00 - 66.00% of mass 95	43.51	
96	5.00 - 9.00% of mass 95	6.30	
173	Less than 2.00% of mass 174	1.01	(1.25)
174	50.00 - 120.00% of mass 95	81.24	
175	4.00 - 9.00% of mass 174	6.03	(7.42)
176	93.00 - 101.00% of mass 174	77.00	(94.78)
177	5.00 - 9.00% of mass 176	4.66	(6.05)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	09302.D	04/03/2017	10:12
2	IC	IC	09308.D	04/03/2017	13:14
3	VP-107_44_20170306 DL	10381335007	09334.D	04/04/2017	03:31

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-APR-2017 10:12
Lab File ID: 09302.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040317.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	5.78658	0.11743	0.010	-42.13421	30.00000	Line		<-
	2 1,1-Difluoroethane	0.15603	0.18357	0.18357	0.010	17.64938	30.00000	Aver		
	3 Chlorodifluoromethane	0.07016	0.07584	0.07584	0.010	8.09271	30.00000	Aver		
	4 Propylene	0.19841	0.22073	0.22073	0.010	11.24807	30.00000	Aver		
	5 Dichlorodifluoromethane	0.73759	0.78656	0.78656	0.010	6.63895	30.00000	Aver		
	6 Chloromethane	0.32279	0.35910	0.35910	0.010	11.25041	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.64016	0.76609	0.76609	0.010	19.67270	30.00000	Aver		
	8 Vinyl chloride	0.25387	0.30415	0.30415	0.010	19.80644	30.00000	Aver		
	9 1,3-Butadiene	0.20298	0.22858	0.22858	0.010	12.61122	30.00000	Aver		
	10 Bromomethane	0.19460	0.22648	0.22648	0.010	16.38317	30.00000	Aver		
	11 Chloroethane	0.10802	0.12402	0.12402	0.010	14.81596	30.00000	Aver		
	12 Ethanol	0.09258	0.10363	0.10363	0.005	11.93125	30.00000	Aver		
	13 Vinyl Bromide	0.18751	0.21854	0.21854	0.010	16.54651	30.00000	Aver		
	14 Isopentane	0.26690	0.27723	0.27723	0.010	3.86973	30.00000	Aver		
	15 Freon 123	0.44208	0.28451	0.28451	0.010	-35.64325	30.00000	Aver		<-
	16 Trichlorofluoromethane	0.49968	0.57753	0.57753	0.010	15.58147	30.00000	Aver		
	17 Acrolein	0.08522	0.10205	0.10205	0.010	19.75021	30.00000	Aver		
	18 Acetone	0.35696	0.38888	0.38888	0.010	8.94032	30.00000	Aver		
	19 Isopropyl Alcohol	0.40433	0.44603	0.44603	0.010	10.31272	30.00000	Aver		
	20 1,1-Dichloroethene	0.35814	0.40412	0.40412	0.010	12.84094	30.00000	Aver		
	21 Acrylonitrile	0.19077	0.20672	0.20672	0.010	8.35877	30.00000	Aver		
	22 Freon 113	0.41196	0.43645	0.43645	0.010	5.94416	30.00000	Aver		
	23 Methyl Acetate	0.59819	0.63689	0.63689	0.010	6.46833	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.49137	0.54664	0.54664	0.010	11.24921	30.00000	Aver		
	25 Methylene chloride	0.28536	0.29286	0.29286	0.010	2.62634	30.00000	Aver		
	26 Allyl Chloride	0.06773	0.09028	0.09028	0.010	33.28698	30.00000	Aver		<-
	27 Carbon Disulfide	0.43959	0.52981	0.52981	0.010	20.52219	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.19651	0.21672	0.21672	0.010	10.28348	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.51119	0.58667	0.58667	0.010	14.76490	30.00000	Aver		
	30 Vinyl Acetate	0.63361	0.71788	0.71788	0.010	13.30023	30.00000	Aver		
	31 1,1-Dichloroethane	0.38416	0.44364	0.44364	0.010	15.48335	30.00000	Aver		
$	32 Hexane-d14(S)	0.37726	0.35551	0.35551	0.010	-5.76403	30.00000	Aver		
	33 Methyl Ethyl Ketone	0.10096	0.10741	0.10741	0.010	6.38748	30.00000	Aver		
	34 n-Hexane	0.38395	0.43130	0.43130	0.010	12.33162	30.00000	Aver	(M)	
	35 Di-isopropyl Ether	0.80676	0.86015	0.86015	0.010	6.61770	30.00000	Aver		
	36 Ethyl Acetate	0.53627	0.67923	0.67923	0.010	26.65895	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.21667	0.29756	0.29756	0.010	37.33564	30.00000	Aver		<-
	38 Ethyl Tert-Butyl Ether	0.75635	0.98693	0.98693	0.010	30.48535	30.00000	Aver		<-
	39 Chloroform	0.40530	0.55517	0.55517	0.010	36.97788	30.00000	Aver		<-
	40 Tetrahydrofuran	0.31276	0.35684	0.35684	0.010	14.09366	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.52387	0.65636	0.65636	0.010	25.29127	30.00000	Aver		
	42 1,2-Dichloroethane	0.43027	0.49287	0.49287	0.010	14.55122	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-APR-2017 10:12
Lab File ID: 09302.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040317.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.75411	0.90010	0.90010	0.010	19.35888	30.00000	Aver		
	44 Carbon tetrachloride	0.52566	0.66551	0.66551	0.010	26.60343	30.00000	Aver		
	45 Cyclohexane	0.43434	0.50008	0.50008	0.010	15.13472	30.00000	Aver		
	46 Tert Amyl Methyl Ether	0.81416	0.89280	0.89280	0.010	9.65868	30.00000	Aver		
	48 2,2,4-Trimethylpentane	1.32797	1.52016	1.52016	0.010	14.47235	30.00000	Aver		
	49 Heptane	0.51802	0.56397	0.56397	0.010	8.86957	30.00000	Aver		
	50 1,2-Dichloropropane	0.30863	0.36436	0.36436	0.010	18.05586	30.00000	Aver		
	51 Trichloroethene	0.40560	0.46431	0.46431	0.010	14.47424	30.00000	Aver		
	52 Methyl methacrylate	0.27259	0.32824	0.32824	0.010	20.41463	30.00000	Aver		
	53 1,4-Dioxane	0.18592	0.22704	0.22704	0.010	22.11742	30.00000	Aver		
	54 Bromodichloromethane	0.53129	0.67110	0.67110	0.010	26.31562	30.00000	Aver		
	55 Methylcyclohexane	0.21540	0.26391	0.26391	0.010	22.52472	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.70682	0.77896	0.77896	0.010	10.20722	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.41679	0.54832	0.54832	0.010	31.55745	30.00000	Aver		<-
	58 trans-1,3-Dichloropropene	0.36525	0.51303	0.51303	0.010	40.45703	30.00000	Aver		<-
$	59 Toluene-d8 (S)	0.83782	0.86668	0.86668	0.010	3.44497	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.32854	0.38257	0.38257	0.010	16.44572	30.00000	Aver		
	61 Toluene	0.96913	1.12045	1.12045	0.010	15.61331	30.00000	Aver		
	62 Methyl Butyl Ketone	1.00495	1.12913	1.12913	0.010	12.35687	30.00000	Aver		
	63 n-Octane	1.13917	1.20157	1.20157	0.010	5.47768	30.00000	Aver		
	64 Dibromochloromethane	0.96719	1.15663	1.15663	0.010	19.58611	30.00000	Aver		
	65 1,2-Dibromoethane	0.88855	0.98566	0.98566	0.010	10.92992	30.00000	Aver		
	66 Tetrachloroethene	0.88546	0.89574	0.89574	0.010	1.16127	30.00000	Aver		
	68 Chlorobenzene	1.37212	1.48383	1.48383	0.010	8.14209	30.00000	Aver		
	69 Ethyl Benzene	2.12376	2.29971	2.29971	0.010	8.28443	30.00000	Aver		
	70 m&p-Xylene	1.60469	1.74196	1.74196	0.010	8.55432	30.00000	Aver		
	71 n-Nonane	1.04383	1.10414	1.10414	0.010	5.77780	30.00000	Aver		
	72 Bromoform	0.72919	0.96356	0.96356	0.010	32.14077	30.00000	Aver		<-
	73 Styrene	1.20677	1.36746	1.36746	0.010	13.31544	30.00000	Aver		
	74 o-Xylene	1.67239	1.80536	1.80536	0.010	7.95100	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.94443	1.07341	1.07341	0.010	13.65647	30.00000	Aver		
	76 Isopropylbenzene	2.33960	2.44171	2.44171	0.010	4.36469	30.00000	Aver		
	77 N-Propylbenzene	2.41285	2.84213	2.84213	0.010	17.79119	30.00000	Aver		
	78 4-Ethyltoluene	2.03882	2.43983	2.43983	0.010	19.66874	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.81770	2.04391	2.04391	0.010	12.44510	30.00000	Aver		
	80 n-Decane	0.63385	0.83885	0.83885	0.010	32.34199	30.00000	Aver		<-
	81 Tert-Butyl Benzene	1.90446	2.06370	2.06370	0.010	8.36112	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.63637	1.87738	1.87738	0.010	14.72835	30.00000	Aver		
	83 1,3-Dichlorobenzene	0.96807	1.19716	1.19716	0.010	23.66483	30.00000	Aver		
	84 Sec- Butylbenzene	2.36712	2.64121	2.64121	0.010	11.57901	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.45185	0.53334	0.53334	0.010	18.03435	30.00000	Aver		
	86 Benzyl Chloride	10.00000	12.72049	1.34342	0.010	27.20494	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040317.b\09302.D
Report Date: 03-Apr-2017 09:37

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 03-APR-2017 10:12
Lab File ID: 09302.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040317.b\TO15_090-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.93597	1.20426	1.20426	0.010	28.66394	30.00000	Aver		
88 p-Isopropyltoluene	1.99394	2.31095	2.31095	0.010	15.89879	30.00000	Aver		
89 1,2,3-Trimethylbenzene	1.62903	1.86386	1.86386	0.010	14.41530	30.00000	Aver		
90 1,2-Dichlorobenzene	0.90579	1.13882	1.13882	0.010	25.72711	30.00000	Aver		
91 N-Butylbenzene	1.41861	1.87395	1.87395	0.010	32.09782	30.00000	Aver		<-
92 1,2-Dibromo-3-Chloropropane	10.00000	11.47979	0.41947	0.010	14.79793	30.00000	Line		
93 1,2,4-Trichlorobenzene	10.00000	11.39462	0.35224	0.010	13.94619	30.00000	Quad		
94 Naphthalene	10.00000	10.98556	0.97900	0.010	9.85560	30.00000	Line		
95 Hexachlorobutadiene	10.00000	12.91423	0.44991	0.010	29.14228	30.00000	Line		

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 16.47625
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335
Lab File ID: 09401BFB.D BFB Injection Date: 04/04/2017
Instrument ID: 10AIRB BFB Injection Time: 08:39
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.99	
75	30.00 - 66.00% of mass 95	43.59	
96	5.00 - 9.00% of mass 95	6.31	
173	Less than 2.00% of mass 174	0.74	(0.89)
174	50.00 - 120.00% of mass 95	83.26	
175	4.00 - 9.00% of mass 174	6.02	(7.22)
176	93.00 - 101.00% of mass 174	82.45	(99.03)
177	5.00 - 9.00% of mass 176	5.25	(6.37)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	09402.D	04/04/2017	09:07
2	IC	IC	09405.D	04/04/2017	10:37
3	VP-107_44_20170306 RE	10381335007	09410.D	04/04/2017	13:10

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-APR-2017 09:07
Lab File ID: 09402.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040417.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
1	Chloropentafluoroethane	10.00000	10.13284	0.20423	0.010	1.32839	30.00000	Line		
2	1,1-Difluoroethane	0.15603	0.18331	0.18331	0.010	17.48373	30.00000	Aver		
3	Chlorodifluoromethane	0.07016	0.07952	0.07952	0.010	13.33377	30.00000	Aver		
4	Propylene	0.19841	0.22907	0.22907	0.010	15.45137	30.00000	Aver		
5	Dichlorodifluoromethane	0.73759	0.79606	0.79606	0.010	7.92643	30.00000	Aver		
6	Chloromethane	0.32279	0.37400	0.37400	0.010	15.86707	30.00000	Aver		
7	Dichlorotetrafluoroethane	0.64016	0.76344	0.76344	0.010	19.25800	30.00000	Aver		
8	Vinyl chloride	0.25387	0.30235	0.30235	0.010	19.09699	30.00000	Aver		
9	1,3-Butadiene	0.20298	0.24172	0.24172	0.010	19.08713	30.00000	Aver		
10	Bromomethane	0.19460	0.24537	0.24537	0.010	26.09120	30.00000	Aver		
11	Chloroethane	0.10802	0.13493	0.13493	0.010	24.91309	30.00000	Aver		
12	Ethanol	0.09258	0.11607	0.11607	0.005	25.37497	30.00000	Aver		
13	Vinyl Bromide	0.18751	0.24234	0.24234	0.010	29.23683	30.00000	Aver		
14	Isopentane	0.26690	0.30685	0.30685	0.010	14.96838	30.00000	Aver		
15	Freon 123	0.44208	0.32708	0.32708	0.010	-26.01500	30.00000	Aver	(M)	
16	Trichlorofluoromethane	0.49968	0.61841	0.61841	0.010	23.76190	30.00000	Aver		
17	Acrolein	0.08522	0.11130	0.11130	0.010	30.61538	30.00000	Aver		<-
18	Acetone	0.35696	0.42510	0.42510	0.010	19.08765	30.00000	Aver		
19	Isopropyl Alcohol	0.40433	0.48634	0.48634	0.010	20.28281	30.00000	Aver		
20	1,1-Dichloroethene	0.35814	0.43964	0.43964	0.010	22.75639	30.00000	Aver		
21	Acrylonitrile	0.19077	0.23015	0.23015	0.010	20.63792	30.00000	Aver		
22	Freon 113	0.41196	0.47690	0.47690	0.010	15.76339	30.00000	Aver		
23	Methyl Acetate	0.59819	0.69493	0.69493	0.010	16.17136	30.00000	Aver		
24	Tert Butyl Alcohol (TBA)	0.49137	0.58323	0.58323	0.010	18.69501	30.00000	Aver		
25	Methylene chloride	0.28536	0.32201	0.32201	0.010	12.84177	30.00000	Aver		
26	Allyl Chloride	0.06773	0.09893	0.09893	0.010	46.05621	30.00000	Aver		<-
27	Carbon Disulfide	0.43959	0.55126	0.55126	0.010	25.40238	30.00000	Aver		
28	trans-1,2-dichloroethene	0.19651	0.23106	0.23106	0.010	17.57971	30.00000	Aver		
29	Methyl Tert Butyl Ether	0.51119	0.61345	0.61345	0.010	20.00332	30.00000	Aver		
30	Vinyl Acetate	0.63361	0.77089	0.77089	0.010	21.66663	30.00000	Aver		
31	1,1-Dichloroethane	0.38416	0.46696	0.46696	0.010	21.55455	30.00000	Aver		
$ 32	Hexane-d14(S)	0.37726	0.38610	0.38610	0.010	2.34428	30.00000	Aver		
33	Methyl Ethyl Ketone	0.10096	0.11260	0.11260	0.010	11.52798	30.00000	Aver		
34	n-Hexane	0.38395	0.45758	0.45758	0.010	19.17672	30.00000	Aver		
35	Di-isopropyl Ether	0.80676	0.92700	0.92700	0.010	14.90443	30.00000	Aver		
36	Ethyl Acetate	0.53627	0.62025	0.62025	0.010	15.66055	30.00000	Aver		
37	cis-1,2-Dichloroethene	0.21667	0.26214	0.26214	0.010	20.98585	30.00000	Aver		
38	Ethyl Tert-Butyl Ether	0.75635	0.99060	0.99060	0.010	30.97069	30.00000	Aver		<-
39	Chloroform	0.40530	0.54826	0.54826	0.010	35.27163	30.00000	Aver		<-
40	Tetrahydrofuran	0.31276	0.35790	0.35790	0.010	14.43279	30.00000	Aver		
41	1,1,1-Trichloroethane	0.52387	0.64612	0.64612	0.010	23.33568	30.00000	Aver		
42	1,2-Dichloroethane	0.43027	0.49707	0.49707	0.010	15.52595	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-APR-2017 09:07
Lab File ID: 09402.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040417.b\TO15_090-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.75411	0.88222	0.88222	0.010	16.98718	30.00000	Aver		
	44 Carbon tetrachloride	0.52566	0.65738	0.65738	0.010	25.05634	30.00000	Aver		
	45 Cyclohexane	0.43434	0.50543	0.50543	0.010	16.36756	30.00000	Aver		
	46 Tert Amyl Methyl Ether	0.81416	0.86824	0.86824	0.010	6.64267	30.00000	Aver		
	48 2,2,4-Trimethylpentane	1.32797	1.54820	1.54820	0.010	16.58394	30.00000	Aver		
	49 Heptane	0.51802	0.58444	0.58444	0.010	12.82020	30.00000	Aver		
	50 1,2-Dichloropropane	0.30863	0.35513	0.35513	0.010	15.06559	30.00000	Aver		
	51 Trichloroethene	0.40560	0.45195	0.45195	0.010	11.42763	30.00000	Aver		
	52 Methyl methacrylate	0.27259	0.30881	0.30881	0.010	13.28783	30.00000	Aver		
	53 1,4-Dioxane	0.18592	0.21870	0.21870	0.010	17.63349	30.00000	Aver		
	54 Bromodichloromethane	0.53129	0.65526	0.65526	0.010	23.33445	30.00000	Aver		
	55 Methylcyclohexane	0.21540	0.25906	0.25906	0.010	20.27217	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.70682	0.79811	0.79811	0.010	12.91625	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.41679	0.52645	0.52645	0.010	26.31075	30.00000	Aver		
	58 trans-1,3-Dichloropropene	0.36525	0.48782	0.48782	0.010	33.55574	30.00000	Aver		<-
$	59 Toluene-d8 (S)	0.83782	0.83510	0.83510	0.010	-0.32425	30.00000	Aver		
	60 1,1,2-Trichloroethane	0.32854	0.37506	0.37506	0.010	14.15974	30.00000	Aver		
	61 Toluene	0.96913	1.09458	1.09458	0.010	12.94411	30.00000	Aver		
	62 Methyl Butyl Ketone	1.00495	1.20591	1.20591	0.010	19.99755	30.00000	Aver		
	63 n-Octane	1.13917	1.27962	1.27962	0.010	12.32882	30.00000	Aver		
	64 Dibromochloromethane	0.96719	1.18076	1.18076	0.010	22.08096	30.00000	Aver		
	65 1,2-Dibromoethane	0.88855	1.01272	1.01272	0.010	13.97437	30.00000	Aver		
	66 Tetrachloroethene	0.88546	0.95185	0.95185	0.010	7.49848	30.00000	Aver		
	68 Chlorobenzene	1.37212	1.49747	1.49747	0.010	9.13567	30.00000	Aver		
	69 Ethyl Benzene	2.12376	2.37498	2.37498	0.010	11.82871	30.00000	Aver		
	70 m&p-Xylene	1.60469	1.79658	1.79658	0.010	11.95848	30.00000	Aver		
	71 n-Nonane	1.04383	1.22543	1.22543	0.010	17.39773	30.00000	Aver		
	72 Bromoform	0.72919	0.99077	0.99077	0.010	35.87299	30.00000	Aver		<-
	73 Styrene	1.20677	1.41760	1.41760	0.010	17.47087	30.00000	Aver		
	74 o-Xylene	1.67239	1.84566	1.84566	0.010	10.36086	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.94443	1.09247	1.09247	0.010	15.67438	30.00000	Aver		
	76 Isopropylbenzene	2.33960	2.55123	2.55123	0.010	9.04578	30.00000	Aver		
	77 N-Propylbenzene	2.41285	2.93131	2.93131	0.010	21.48714	30.00000	Aver		
	78 4-Ethyltoluene	2.03882	2.50802	2.50802	0.010	23.01302	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.81770	2.10097	2.10097	0.010	15.58375	30.00000	Aver		
	80 n-Decane	0.63385	0.81458	0.81458	0.010	28.51341	30.00000	Aver		
	81 Tert-Butyl Benzene	1.90446	2.16441	2.16441	0.010	13.64940	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.63637	1.93091	1.93091	0.010	17.99926	30.00000	Aver		
	83 1,3-Dichlorobenzene	0.96807	1.24288	1.24288	0.010	28.38793	30.00000	Aver		
	84 Sec- Butylbenzene	2.36712	2.74442	2.74442	0.010	15.93925	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.45185	0.56301	0.56301	0.010	24.60121	30.00000	Aver	(M)	
	86 Benzyl Chloride	10.00000	12.07750	1.27420	0.010	20.77503	30.00000	Line		

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\040417.b\09402.D
Report Date: 04-Apr-2017 09:29

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-APR-2017 09:07
Lab File ID: 09402.D Init. Cal. Date(s): 31-MAR-2017 31-MAR-2017
Analysis Type: AIR Init. Cal. Times: 15:41 18:28
Lab Sample ID: ccv Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\040417.b\TO15_090-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.93597	1.23867	1.23867	0.010	32.34107	30.00000	Aver		<-
88 p-Isopropyltoluene	1.99394	2.38919	2.38919	0.010	19.82281	30.00000	Aver		
89 1,2,3-Trimethylbenzene	1.62903	1.89712	1.89712	0.010	16.45686	30.00000	Aver		
90 1,2-Dichlorobenzene	0.90579	1.15658	1.15658	0.010	27.68728	30.00000	Aver		
91 N-Butylbenzene	1.41861	1.89826	1.89826	0.010	33.81138	30.00000	Aver		<-
92 1,2-Dibromo-3-Chloropropane	10.00000	10.94999	0.39971	0.010	9.49990	30.00000	Line		
93 1,2,4-Trichlorobenzene	10.00000	10.28586	0.31413	0.010	2.85855	30.00000	Quad		
94 Naphthalene	10.00000	9.81502	0.87074	0.010	-1.84975	30.00000	Line		
95 Hexachlorobutadiene	10.00000	12.37452	0.43131	0.010	23.74520	30.00000	Line		

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 18.50304
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/28/2017

Lab File ID (Standard): 08702.D Time Analyzed: 09:50

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
21	24 HOUR STANDARD	2324391	5.610	1528809	8.642
21	UPPER LIMIT 3254147	~~4648782~~	6.110 2140333	~~3057618~~	9.142
21	LOWER LIMIT 1394635	~~1162196~~	5.110 917285	~~764404~~	8.142
21	EPA SAMPLE NO.				
21	LCS for HBN 465981 [AIR/28028]	2324391	5.610	1528809	8.642
21	BLANK for HBN 465981 [AIR/2802	2800081	5.597	1591707	8.639
21	VP-107_13_20170306	2493282	5.597	1466500	8.636
21	VP-107_13_20170306(2533062DUP)	2606977	5.594	1536032	8.636
21	VP-3_5_20170307	2519653	5.597	1502498	8.639
21	VP-108_5_20170307	2170292	5.597	1361067	8.636
21	VP-3_5_20170307DUP	2305260	5.601	1421077	8.636
21	VP-108_10_20170307	2339832	5.597	1468323	8.636
21	VP-108_20_20170307	2429742	5.594	1447778	8.642
21	VP-3_20_20170307	2464097	5.597	1457346	8.636
21	VP-108D_60_20170307	2412472	5.607	1453980	8.639
21	VP-3_30_20170307	2317502	5.594	1369331	8.636
21	VP-3D_61_20170307	2264942	5.594	1345900	8.636
21	VP-3D_51_20170307	2296930	5.594	1354736	8.636
21	VP-3D_73_20170307	2279064	5.591	1313580	8.636
21	VP-108D_70_20170307	2280331	5.600	1288681	8.636
21	VP-3D_73_20170307DUP	2368600	5.597	1380810	8.636
21	VP-107_33.5_20170306	2222222	5.613	1336756	8.642
21	VP-107_60_20170306	2126529	5.604	1284486	8.639
21	VP-107_74_20170306	2188820	5.604	1291375	8.639
21	VP-107_20_20170306	2319267	5.607	1319468	8.639

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/29/2017

Lab File ID (Standard): 08802.D Time Analyzed: 08:57

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1	IS1 AREA #	RT #	IS2 AREA #	RT #
01	24 HOUR STANDARD	1994472	1994472	5.613	1284022	8.645
01	UPPER LIMIT	2792261	~~3988944~~	6.113	1797631 ~~2568044~~	9.145
01	LOWER LIMIT	1196683	~~997236~~	5.113	770413 ~~642011~~	8.145
01	EPA SAMPLE NO.					
01	L15-VP-7_30_20170306		2371711	5.601	1302333	8.639

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/31/2017

Lab File ID (Standard): 08932.D Time Analyzed: 03:32

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
08	24 HOUR STANDARD	1818534	5.674	1176029	8.677
08	UPPER LIMIT	~~3637068~~	6.174	~~2352058~~	9.177
08	LOWER LIMIT	~~909267~~	5.174	~~588014~~	8.177
08	EPA SAMPLE NO.				
08	LCS for HBN 466603 [AIR/28049]	1818534	5.674	1176029	8.677
08	BLANK for HBN 466603 [AIR/2804	2124388	5.639	1240051	8.658
08	VP-3_10_20170307	1958186	5.642	1121217	8.662
08	VP-3D_40_20170307	2076476	5.645	1205749	8.661
08	VP-107_44_20170306	1770470	5.658	1085406	8.661
08	VP-108_29.5_20170307	2228365	5.655	1229652	8.678
08	VP-108_20_20170307	1815233	5.594	1073029	8.639
08	VP-107_60_20170306	2017470	5.600	1102026	8.639

IS1
1818534
2545948
1091120

IS2
1176029
1646441
705617

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 04/01/2017

Lab File ID (Standard): 09102.D Time Analyzed: 07:31

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
04	24 HOUR STANDARD	1786987	5.610	1144863	8.642
04	UPPER LIMIT	~~3573974~~	6.110	~~2289726~~	9.142
04	LOWER LIMIT	~~893494~~	5.110	~~572432~~	8.142
04	EPA SAMPLE NO.				
04	VP-107_20_20170306	1978817	5.604	1094208	8.639
04	VP-107_33.5_20170306	1974294	5.597	1091777	8.636
04	VP-108D_60_20170307	1723817	5.597	987996	8.636
04	VP-108_29.5_20170307	1975328	5.601	1100695	8.639

IS1
1786987
2501782
1072192

IS2
1144863
1602801
686918

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 04/02/2017

Lab File ID (Standard): 09202.D Time Analyzed: 08:56

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1	IS1 AREA #	RT #	IS2 AREA #	RT #	IS2
05	24 HOUR STANDARD	1675579	1675579	5.613	1077441	8.645	1077441
05	UPPER LIMIT	2345811	~~3351158~~	6.113	~~2154882~~	9.145	1508417
05	LOWER LIMIT	1005347	~~837790~~	5.113	~~538720~~	8.145	646464
05	EPA SAMPLE NO.						
05	LCS for HBN 466636 [AIR/28055]		1675579	5.613	1077441	8.645	
05	BLANK for HBN 466636 [AIR/2805		2039287	5.597	1161302	8.636	
05	VP-108D 50.5 20170307		1990150	5.597	1106887	8.636	
05	VP-108D 50.5 20...(2533120DUP)		1992160	5.597	1099734	8.636	
05	VP-108D_50.5_20170307		1982839	5.600	1090755	8.636	

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 04/03/2017

Lab File ID (Standard): 09302.D Time Analyzed: 10:12

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1	IS1 AREA #	RT #	IS2 AREA #	RT #	IS2
01	24 HOUR STANDARD	1676809	1676809	5.617	1087123	8.645	1087123
01	UPPER LIMIT	2347533	~~3353618~~	6.117	~~2174246~~	9.145	1521972
01	LOWER LIMIT	1006085	~~838404~~	5.117	~~543562~~	8.145	652274
01	EPA SAMPLE NO.						
01	VP-107_44_20170306		2032575	5.601	1122850	8.639	

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10381335

EPA Sample No. (VSTD050##): CCV Date Analyzed: 04/04/2017

Lab File ID (Standard): 09402.D Time Analyzed: 09:07

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
01	24 HOUR STANDARD	1630730	5.613	~~994472~~	8.646
01	UPPER LIMIT 2283022	~~3261460~~	6.113	1392261 ~~1988944~~	9.146
01	LOWER LIMIT 978438	~~815365~~	5.113	596683 497236	8.146
01	EPA SAMPLE NO.				
01	VP-107_44_20170306	1855559	5.597	1018844	8.636

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

VOA Calibration Calculations:

Initial Calibration 3/30/2017
Instrument 10airB

Chloromethane

Analyte Concentration	Analyte Response	Internal Standard Response	Internal Standard Amount	RRF	Reported RRF
0.1	6517	2256388	10	0.2888	0.28882
0.2	12398	2284589	10	0.2713	0.27134
0.5	32705	2206749	10	0.2964	0.29641
1	63420	2239412	10	0.2832	0.2832
10	684947	1822367	10	0.3759	0.37584
20	1278436	1883345	10	0.3394	0.33941
30	1849422	1772650	10	0.3478	0.34777
			Average	0.3147	0.31468
			Standard Deviation	0.0394	
			RSD	0.1252	
			%RSD	12.5247	12.5

Internal standard forchloromethane is 1,4-difluorobenzene

Continuing Calibration 03/31/2017@ 3:32
Instrument 10airB

Chloromethane

Analyte Concentration	Analyte Response	Internal Standard Response	Internal Standard Amount	RRF	%D	Reported RRF	Reported %D
10	662682	1818534	10	0.3644	13.434619	0.3644	15.8

LMC - GREAT NECK
SDG 10381335

SAMPLE IDENTIFICATION	VP-102_4.5_20170306		
COMPOUND	TRICHLOROETHENE	MW=	131.388
		GAS CONSTANT =	24.04
COMPOUND AREA	913486		
INTERNAL STANDARD AMOUNT (ppbv)	10		
CALIBRATION VOLUME (ppbv)	200		
DILUTION FACTOR	1.75		
INTERNAL STANDARD AREA	2552276		
AVERAGE RRF	0.3027		
SAMPLE VOLUME (ppbv)	200		

20.7	ppbv
113	µg/m³

APPENDIX C—NESTED WELL SOIL VAPOR SAMPLE COLLECTION LOGS - IPARK

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	B2			
Date:	2/21/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient
Depth (if applicable)	5'	(feet)		
Canister Volume (circle)	6 - Liter	1 - Liter		
Sample ID:	VP-8-S_20170221			
Sampler Name:	J. Bull, A. Kelly			

LEAK CHECK (circle) YES NO

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
0085	FC0145	2/21/17	0945	-30	2/21/17	1405	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL, 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0945	0.0	57.3	25.79
	1145	0.0	59.2	25.77
Sampling End	1405	0.0	60.2	25.72

CAN VAC

-21

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	B2			
Date:	2/21/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient
Depth (if applicable)	10'	(feet)		
Canister Volume (circle)	6 - Liter	1 - Liter		
Sample ID:	VP-B_10_20170221			
Sampler Name:	J. Buk, A. Kelly			

LEAK CHECK (circle) **YES** **NO**

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2942	FC0040	2/21/17	0945	-30	2/21/17	1335	-5

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	Can Vac
Sampling Start	0941	0.0	57.3	25.79	
	1145	0.0	57.2	25.77	-19
Sampling End	1335	0.0	~~58.3~~ 58.2	25.72	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient
Location:	B2			
Date:	2/21/17			
Sample Type (Circle)	(~~SS-Nested~~)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	20'	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-8_20_20170221			
Sampler Name:	J. Bylk, A. Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2323	FC0426	2/21/17	0945		2/21/17	1335	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s) KESTREL 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	Can Vac
Sampling Start	0940	0.0	57.3	25-29	
	1145	0.0	59.2	25.11	-18
Sampling End	1335	0.0	60.2	25.72	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient
Location:	B2			
Date:	2/21/17			
Sample Type (Circle)	(5-Nested)	Sub-Slab	Indoor	Ambient
Depth (If applicable)	53.5'	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-SD-53.5-20170221			
Sampler Name:	J. Bigly, A Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1033	FC0019	2/21/17	0941	-30	2/21/17	1310	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	~~Starting~~ 0941	0.0	57.3	~~25-29~~
	1145	0.0	59.2	25.71
Sampling End	1310	0.0	60.2	25-70

Can Vac

-1

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	B2			
Date:	2/21/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient
Depth (if applicable)	6.25	(feet)		
Canister Volume (circle)	6 - Liter	1 - Liter		
Sample ID:	VP-8-6.25-20170221			
Sampler Name:	J. Buik, A. Keeler			

LEAK CHECK (circle) YES NO

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2113	FC0606	2/21/17	0941	-30	2/21/17	1311	-6

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s) KESTREL 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	Cm Vac
Sampling Start	2/21/17	0.0	57.3	25.79	
	1145	0.0	54.7	25.77	-19
Sampling End	1311	0.0	60.2	25.72	

OBSERVATIONS/NOTES

DUP COLLECTED HERE W/ "T" FITTING

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient
Location:	B2			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	62.5	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-8D_62.5_20170221DUP			
Sampler Name:	J. Bulk, A. Keller			

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2136	FC0129	2/21/17	0941	-30	2/21/17	1311	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	Can Vac
Sampling Start	0941	0.0	57.3	25.79	
	1145	0.0	59.2	25.77	-18
Sampling End	1311	0.0	60.2	25.72	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient
Location:	B2			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	72-5 (feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-8D_72-5_20170221			
Sampler Name:	J. Kirk, A. Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2803	FC0025	2/21/17	0941	-29	2/21/17	1311	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): RAE 4520 MiniRAE 4520

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0940 ~~2/21/17~~	0.0	57.3	25.74
	1145	0.0	54.7	25.77
Sampling End	1311	0.0	60.2	25.72

Can Vac
-19

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient
Location:	HALLWAY			
Date:	2/2/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	5'	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	FBM-20-S-20170221 DUP			
Sampler Name:	J. Buk, A. Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument _____ **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1252	FC0051	2/2/17	1000	-30	2/2/17	1347	-10

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1000	0.0	59.6	25.70
	1135	0.0	64.1	25.75
Sampling End				

CAN VAC
-21

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient
Location:	HALLWAY			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	9.4	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	FPM-20-9.4 20170221			
Sampler Name:	J. Bulk, A. Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
0085	FC0145	2/21/17	1000	-30	2/21/17	1324	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1000	0.0	59.6	25.79
	1135	0.0	64.1	25.77
Sampling End		0.0		

CANVAC
-21

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient
Location:	[redacted] HALWAY-1			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	5	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	FPM-20_5_20170221			
Sampler Name:	J. Tully, A Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
0005	FC0597	2/21/17	1001	-28	2/21/17	1347	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL 4500, MINI RAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1001	0.0	59.6	25.76
	1135	1.0	64.1	25.75
Sampling End		0.0	60.2	25.72

SAW VAC

-20

OBSERVATIONS/NOTES

Dup Collected

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient
Location:	C4			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	5'	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-104-5-20170224			
Sampler Name:	J. Byk			

LEAK CHECK (circle) **YES** **NO**

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
0595	FC0103	~~0906~~ 2/21/17	0905	-30	2/21/17	1236	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0905	0.0	56.8	25.74	
	1120	0.0	57.4	25.77	-16
Sampling End	1236	0.0	60.7	25.73	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient
Location:	C4			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	10	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-104_10_20170221			
Sampler Name:	J. Bulk, A. Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2038	FC0598	2/21/17	0905	-30	2/21/17	1236	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0905	0.0	56.6	25.76	
	1120	0.0	57.4	25.77	-16
Sampling End	1236	0.0	60.7	25.73	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient
Location:	C4			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	19	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-104_19_20170221			
Sampler Name:	J. Bak, A. Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2095	FC0033	2/21/17	0905	7-30	2/21/17	1238	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s):

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0905	0.0	56.8	25.79
	1120	0.0	57.4	25.77
Sampling End	1238	0.0	60.7	25.73

-17

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient
Location:	C4			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	30	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-104_30_20170221			
Sampler Name:	J. Bak, A. Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
0960	FC0426	2/21/17	0906	-27	2/21/17	1237	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KETTER 4520, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0905	0.0	56.6	25.74	
	1120	0.0	57.4	25.77	-15
Sampling End	1237	0.0	60.7	25.73	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient
Location:	C4			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (If applicable)	40	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-104_40_2017c221			
Sampler Name:	J. Byk, A. Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1283	FC0037	2/21/17	0906	-31	2/21/17	1237	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): MINIRAE 2000, KESTREL 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0905	0.0	56.8	25.79
	@ 1120	0.0	57.4	25.77
Sampling End	1237	0.0	60.7	25.73

-16

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient
Location:	C4			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	50'	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-104_50_20170221			
Sampler Name:	J. Byk, A. Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1498	FC0041	2/21/17	0906	-30	2/21/17	1238	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KETTLER 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0905	0.0	56.8	25.75	
	1120	0.0	57.4	25.77	-17
Sampling End	1238	0.0	60.7	25.73	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient
Location:	C4			
Date:	2/21/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient
Depth (if applicable)	62	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-104-62-20170221			
Sampler Name:	J. Buk, A. Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
0930	FC0014	2/21/17	0906	-30	2/21/17	1238	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL 4500, MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0905	~~0.0~~	56.8	75.75	
	1120	0.0	57.4	75.77	-17
Sampling End	1238	0.0	60.7	25.73	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	C4			
Date:	2/21/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient
Depth (if applicable)	73	(feet)		
Canister Volume (circle)	6 - Liter	1 - Liter		
Sample ID:	VP-104_73_20170221			
Sampler Name:	J. Burke, A. Kelly			

LEAK CHECK (circle) YES NO

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2131	FC0092	2/21/17	0907	-30	2/21/17	1238	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0905	0.0	56.8	25.79	
	1120	0.0	57.4	23.77	-17
Sampling End	1238	0.0	60.7	25.73	

OBSERVATIONS/NOTES

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

ECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End [illegible]	[illegible]ure	End Pressure
VP-102_4.5										
VP-102_8.5										
VP-102_19.5										
VP-102_51.5										
VP-102_57.5										
VP-102_61.5										
VP-102_73.5										
VP-103_5										
VP-103_10										
VP-103_20										
VP-103_30										
VP-103_40										
VP-103_50										
VP-103_61.5										
VP-103_74.5										
VP-104_5	0595	FC0103	2/21/17	0905	-30	56.8	25.79	1236	-8	60.7	25.73
VP-104_10	2038	FC0598	2/20/17	0905	-30	56.8	25.79	1236	-9	60.7	25.73
VP-104_19	2095	FC0033	2/20/17	0905	-30	56.8	25.79	1238	-9	60.7	25.73

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-104_30	0960	FC0426	2/21/17	0906	-27	56.8	25.79	1237	-8	60.7	25.73
VP-104_40	1283	FC0037	2/21/17	0906	7-30	56.8	25.79	1237	-9	60.7	25.73
VP-104_50	1498	FC0041	2/21/17	0906	7-30	56.8	25.79	1238	-9	60.7	25.73
VP-104_62	0930	FC0044	2/21/17	0906	-30	56.8	25.79	1238	-9	60.7	25.73
VP-104_73	2131	FC0082	2/21/17	0907	-30	56.8	25.79	1238	-9	60.7	25.73
VP-107_5											
VP-107_13											
VP-107_20											
VP-107_33.5											
VP-107_44											
VP-107_60											
VP-107_74											
LIJ-VP-7_5											
LIJ-VP-7_10											
LIJ-VP-7_20											
LIJ-VP-7_30											
LIJ-VP-7_40											
LIJ-VP-7_50											
FPM-20_5	0005	FC0597	2/21/17	1001	-28	59.6	25.79	1347	-8	64.2	25.72

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
FPM-20_9.4	0085	FC0145	2/21/17	1000	-30	59.6	25.79	1324	-9	64.2	25.7
VP-8_5	2333	FC0264	2/21/17	0945	-30	57.3	25.79	1405	25.72	60.2	-9
VP-8_10	2842	FC0040	2/21/17	0945	-30	57.3	25.79	1335	25.72	60.2	-8
VP-8_20	2323	FC0428	2/21/17	0945	-29	57.3	25.79	1335	25.72	60.2	-8
VP-8D_53.5	1033	FC0049	2/21/17	0941	-30	57.3	25.79	1310	25.72	60.2	-9
VP-8D_62.5	2113	FC0606	2/21/17	0941	-30	57.3	25.79	1311	25.72	60.2	-8
VP-8D_72.5	2803	FC0025	2/21/17	0941	-29	57.3	25.79	1311	25.72	60.2	-9
VP-NYSDEC-5_5											
VP-NYSDEC-5_10											
VP-NYSDEC-5_20											
VP-NYSDEC-5_30											
VP-NYSDEC-5_40											
VP-NYSDEC-5_50											
VP-9_10											
VP-9_20											
VP-9_30											
VP-9_40											
VP-9_50											
VP-9_60											

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-105_5											
VP-105_10											
VP-105_20											
VP-105_32											
VP-105_50											
VP-105_60											
VP-105_72											
VP-1_5											
VP-1_10											
VP-1_20											
VP-1_30											
VP-2_5											
VP-2_10											
VP-2_20											
VP-2_30											
VP-3_5											
VP-3_10											
VP-3_20											
VP-3_30											

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-3D_40											
VP-3D_51											
VP-3D_61											
VP-3D_73											
VP-4_5											
VP-4_10											
VP-4_20											
VP-4_30											
VP-5_5											
VP-5_10											
VP-5_20											
VP-5_30											
VP-6_5											
VP-6_10											
VP-6_20											
VP-6_30											
VP-101_5											
VP-101_15											
VP-101_27											

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-106_5											
VP-106_11											
VP-106_19.5											
VP-106_28											
VP-106_56											
VP-106_72											
VP-106_84											
VP-108_5											
VP-108_10											
VP-108_20											
VP-108_29.5											
VP-108D_50.5											
VP-108D_60											
VP-108D_70											

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Duplicate Samples

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-108D_50.5_20160202DUP											
VP-3_5_20160202DUP											
VP-5_20_20160206DUP											
VP-6_30_20160206DUP											
VP-9_10_20160209DUP											
VP-8D_62.5_20170220DUP	2136	FC0129	2/20/17	0941	-30	57.3	25-7g	1311	-9	60.2	25.72
VP-4_5_20160218DUP											
VP-101_27_20160218DUP											
VP-106_72_20160218DUP											
LIJ-VP-7_5_20160228DUP											
VP-102_19.5_20160228DUP											
FPM-20_5_20170220DUP	1252	FC0051	2/20/17	1001	-30	59.6	25-7g	1347	-10	64.2	25.72

TETRA TECH

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-102_4.5	DID NOT	PASS	LEAK	TEST							
VP-102_8.5	0196	0033	2/26/17	1010	>-30	61.1	25.39	1347	-8	67.6	25.41
VP-102_19.5	682	0426		1010	-28			1344	-8		
VP-102_51.5	931	0429		1010	-28			1345	-8		
VP-102_57.5	1046	0598		1010	-30			1350	-9		
VP-102_61.5	429	0428		1010	-29			1344	-8		
VP-102_73.5	2703	0597		1010	-28			1400	-7.3		
VP-103_5	820	0129	2/26/17	0821	-30	68.0	25.34	1209	-8	73.1	25.41
VP-103_10	1031	0049		0821	-30			1210	-8		
VP-103_20	1258	0600		0821	-29			1154	-8		
VP-103_30	1267	0530		0821	-30			1220	-8		
VP-103_40	1069	0044		0822	-30			1209	-8		
VP-103_50	2171	0376		0822	-28			1155	-8		
VP-103_61.5	570	0040		0822	-30			1226	-8		
VP-103_74.5	1750	0082		0822	7-30			1208	-8		
VP-104_5	0595	FC0103	2/21/17	0905	>-30	56.8	25.79	1236	-8	60.7	25.73
VP-104_10	2038	FC0598	2/21/17	0905	-30	56.8	25.79	1236	-9	60.7	25.73
VP-104_19	2095	FC0033	2/21/17	0905	>-30	56.8	25.79	1238	-9	60.7	25.73
VP-102_73.5 DUP	1740	0051	2/26/17	1010	-30			1400	-9.5		

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-104_30	0960	FC0426	2/21/17	0906	-27	56.8	25.79	1237	-8	60.7	25.73
VP-104_40	1283	FC0037	2/21/17	0906	>-30	56.8	25.79	1237	-9	60.7	25.73
VP-104_50	1498	FC0041	2/21/17	0906	>-30	56.8	25.79	1238	-9	60.7	25.73
VP-104_62	0930	FC0044	2/21/17	0906	-30	56.8	25.79	1238	-9	60.7	25.73
VP-104_73	2131	FC0082	2/21/17	0907	-30	56.8	25.79	1238	-9	60.7	25.73
VP-107_5											
VP-107_13											
VP-107_20											
VP-107_33.5											
VP-107_44											
VP-107_60											
VP-107_74											
LIJ-VP-7_5	847	0041	2/26/17	0956	-30	58.7	25.38	1336	-9	61.6	25.41
LIJ-VP-7_10	1515	0103		0957	-30			1336	-8		
LIJ-VP-7_20	1288	0264		0955	-30			1400	-9		
LIJ-VP-7_30	2816	0025		0955	-30	BAD	CAN	1340*	-28		
LIJ-VP-7_40	859	0037		0956	-30			1337	-8		
LIJ-VP-7_50	1051	0145		0956	-30			1335	-8		
FPM-20_5	0005	FC0597	2/21/17	1001	-28	59.6	25.79	1347	-8	64.2	25.72
LIJ-VP-7_5 DUP	1241	0036	2/26/17	0956	-28.5	58.7	25.38	1336	-7	25.61.6	25.41

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
FPM-20_9.4	0085	FC0145	2/21/17	1000	-30	59.6	25.79	1324	-9	64.2	25.71
VP-8_5	2333	FC0264	2/21/17	0945	>-30	57.3	25.79	1405	-9	60.2	25.72
VP-8_10	2842	FC0040	2/21/17	0945	-30	57.3	25.79	1335	-8	60.2	25.72
VP-8_20	2323	FC0428	2/21/17	0945	-29	57.3	25.79	1335	-8	60.2	25.72
VP-8D_53.5	1033	FC0049	2/21/17	0941	-30	57.3	25.79	1310	-9	60.2	25.72
VP-8D_62.5	2113	FC0606	2/21/17	0941	-30	57.3	25.79	1311	-8	60.2	25.72
VP-8D_72.5	2803	FC0025	2/21/17	0941	-29	57.3	25.79	1311	-9	60.2	25.72
VP-NYSDEC-5_5	2676	0368	2/23/17	0845	>-30	74.4	25.32	1227	-9	70.5	25.27
VP-NYSDEC-5_10	1582	0358	2/23/17	0845	-30	74.4	25.32	1208	-9	70.3	25.20
VP-NYSDEC-5_20	2295	0865	2/23/17	0845	>-30	74.4	25.32	1208	-9	70.3	25.27
VP-NYSDEC-5_30	1041	0253	2/23/17	0845	-27	74.4	25.32	1208	-9	70.3	25.27
VP-NYSDEC-5_40	2826	1048	2/23/17	0845	>-30	74.4	25.32	1303	-9	74.2	25.25
VP-NYSDEC-5_50	2762	0054	2/23/17	0845	-29.5	74.4	25.32	1208	-9	70.3	25.27
VP-9_10	1199	0134	2/23/17	0826	-30	74.4	25.32	1156	-9	73.6	25.26
VP-9_20	0871	0056	2/23/17	0826	-28	74.4	25.32	1204	-9		25.26
VP-9_30	2380	0053	2/23/17	0826	-29	74.4	25.32	1210	-9		25.26
VP-9_40	2820	6091	2/23/17	0826	-30	74.4	25.32	1210	-9		25.26
VP-9_50	2366	0355	2/23/17	0826	-30	74.4	25.32	1156	-9		25.26
VP-9_60	2183	1084	2/23/17	0826	-29	74.4	25.32	1159	-8		25.26

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-105_5	1087	FC0320	2/23/17	0901	-29	74.4	25-32	1250	-10	74.0	25-25
VP-105_10	944	FC0356	2/23/17	0901	>-30	74.4	25-32	1249	-9	74.0	25-25
VP-105_20	2700	0045	2/23/17	0901	-30	74.4	25-32	1249	-9	74.0	25.25
VP-105_32	2697	0262	2/23/17	0901	-29	74.4	25-32	1250	#-29	74.0	25.25
VP-105_50	858	0133	2/23/17	0901	-30	74.4	25-32	1250	-8	74.0	25-25
VP-105_60	~~2025~~	~~0035~~	2/23/17	0905 ~~0901~~	-30	74.4	25-32	1248	-8	74.0	25-25
VP-105_72	2768	0308	2/23/17	0901	>-30	74.4	25-32	1248	-8	74.0	25-25
VP-1_5											
VP-1_10											
VP-1_20											
VP-1_30											
VP-2_5											
VP-2_10											
VP-2_20											
VP-2_30											
VP-3_5											
VP-3_10											
VP-3_20											
VP-3_30											

* VP-105_60 1065 0039

NO SAMPLE VP-105_32

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-3D_40											
VP-3D_51											
VP-3D_61											
VP-3D_73											
VP-4_5											
VP-4_10											
VP-4_20											
VP-4_30											
VP-5_5											
VP-5_10											
VP-5_20											
VP-5_30											
VP-6_5											
VP-6_10											
VP-6_20											
VP-6_30											
VP-101_5											
VP-101_15											
VP-101_27											

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-106_5											
VP-106_11											
VP-106_19.5											
VP-106_28											
VP-106_56											
VP-106_72											
VP-106_84											
VP-108_5											
VP-108_10											
VP-108_20											
VP-108_29.5											
VP-108D_50.5											
VP-108D_60											
VP-108D_70											

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Duplicate Samples

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-108D_50.5_20160202DUP											
VP-3_5_20160202DUP											
VP-5_20_20160206DUP											
VP-6_30_20160206DUP											
VP-9~~8~~0_20170223DUP	952	0354	2/23/17	0826	-30	74.4	25.32	1159	-10	73.6	25.26
VP-8D_62.5_20170220DUP	2136	FC0129	2/21/17	0941	-30	57.3	25.79	1311	-9	60.2	25.72
VP-4_5_20160218DUP											
VP-101_27_20160218DUP											
VP-106_72_20160218DUP											
LIJ-VP-7_5_20160228DUP				0956	-28.5						
VP-102_19.5_20160228DUP											
FPM-20_5_20170220DUP	1252	FC0051	2/21/17	1001	-30	59.6	25.79	1347	-10	64.2	25.72
VP-102_73.5_20170226				1010	-30						
EP-007-2017 0226	2493	0677	2/26/17	1054	-28	~~0004~~	25.39	1059	-8	~~FD09~~	25.39
						64.9				64.5	
	2557	1240	2/26/17	1124	-29	~~FD01~~	25.39	1131	~~-28~~ -7		25.39

EP-GAR01-2017 0226

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTDOOR				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	5'	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-1_5_20170302				
Sampler Name:	J. BUC				

LEAK CHECK (circle) (YES) NO

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
966	0309	3/2/17	0835	-30	3/2/17	1235	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0835	0.0	53.2	25.03	
	1019	0.0	57.2	25.10	-22
Sampling End	1235	0.0	61.8	25.15	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	~~SS Nested~~	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	10	(feet)			
Canister Volume (circle)	6 - Liter	1 - Liter			
Sample ID:	VP-1-10-20170302				
Sampler Name:	J. Zuk				

LEAK CHECK (circle) YES NO

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2308	0368	3/2/17	0835	<-30	3/2/17	1235	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0835	0.0	53.2	25.03	
	1019	0.0	57.2	25.10	-22
Sampling End	1235	0.0	61.8	25.15	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	20	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-1_20_20170302				
Sampler Name:	J. Bull				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
735	0262	3/2/17	0935	-29	3/2/17	1225	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0935	0.0	53.2	25.03	
	1019	0.0	57.2	25.10	-20
Sampling End	1225	0.0	61.8	25.15	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	30	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-1-30-20170302				
Sampler Name:	J. Buck				

LEAK CHECK (circle) **YES** **NO**

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2128	0355	3/2/17	0835	-29	3/2/17	1216	-7

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0835	0.0	53.2	~~0835~~ 25.03
	1019	0.0	57.2	25.10 -19
Sampling End	1216	0.0	61.8	25.15

OBSERVATIONS/NOTES

1019 - DUP - -22

DUPLICATE

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(Park)	LA Fitness	LA Fitness	Ambient	
Location:	Outside				
Date:	3/2/17				
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient	EP
Depth (If applicable)	30	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-1_30_20170302DUP				
Sampler Name:	J. Bilk				

LEAK CHECK (circle) **YES** **NO**

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2755	0606	3/2/17	0835	~~-30~~ -30	3/2/17	1216	-8.5

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0835	0.0	53.2	25.03
	1019	0.0	57.2	25.10 -22
Sampling End	1216	0.0	61.8	25.15

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	Outside				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	5	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-2_5_20170302				
Sampler Name:	J. Byl				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2719	0354	3/2/17	0816	-29	3/2/17	1200	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s) Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0816	0.0	53.2	25.03	
	1012	0.0	57.2	25.10	-14
Sampling End	1200	0.0	61.8	25.15	

OBSERVATIONS/NOTES

Dup. 20

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient	
Location:	OUTDOOR				
Date:	3/2/17				
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	10	(feet)			
Canister Volume (circle)	6 - Liter	1 - Liter			
Sample ID:	VP-2_10.20170302				
Sampler Name:	J. Burk				

LEAK CHECK (circle) YES NO

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1616	1048	3/2/17	0816	-30	3/2/17	1214	-9.5

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0816	0.0	53.2	25.03
	1012	0.0	57.2	25.10
Sampling End	1214	0.0	61.8	25.15

-20

OBSERVATIONS/NOTES

DUPLICATE

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	10	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-2_10_20170302DUP				
Sampler Name:	J. BULL				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1072	1037	3/2/17	0816	< -30	3/2/17	1214	-7

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0816	0.0	57.2	25.09
	1012	0.0	57.2	25.10
Sampling End	1214	0.0	61.8	25.15

-20

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	~~SS-Nested~~	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	20	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	UP-2_20_20170302				
Sampler Name:	J. Bull				

LEAK CHECK (circle) YES NO

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2705	0045	3/2/17	0816	-30	3/2/17	1205	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0816	0.0	53.2	25.03	
	1012	0.0	57.2	25.10	-14.5
Sampling End	1205	0.0	61.8	25.15	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	30	(feet)			
Canister Volume (circle)	6 - Liter	1 - Liter			
Sample ID:	VP-2_30-20170302				
Sampler Name:	J. Burk				

LEAK CHECK (circle) YES NO

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
		3/2/17	0816	<-30	3/2/17	1201	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0816	0.0	53.2	25.53
	1012	0.0	57.2	25.10 -20
Sampling End	1201	0.0	61.8	25.15

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(Park)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	5	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-4_5_20170302				
Sampler Name:	J. B, MK				

LEAK CHECK (circle) (YES) NO

He Instrument: MGD 2002 **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
0745	0	60.9	(YES) / NO	<1	(YES) / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
02580	1084	3/2/17	0755	-28	3/2/17	1122	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0755	0.0	51.5	25.02	
	1010	0.0	57.2	25.10	-16
Sampling End	1122	0.0	61.8	25.15	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (If applicable)	10	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	UP-4_10_20170302				
Sampler Name:	J. Ball				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2874	0054	3/2/17	0755	-28	3/2/17	1128	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0755	0.0	51.5	25.02	
	1010	0.0	57.2	25.10	-16
Sampling End	1128	0.0	61.8	25.15	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	20	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-4_20_20170302				
Sampler Name:	J.RVL				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
06388	0865	3/2/17	0755	-30	3/2/17	1140	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s) Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0755	0.0	51.5	25.02
	1010	0.0	57.2	25.10
Sampling End	1140	0.0	61.8	25.15

-14

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient	
Location:	Outside				
Date:	3/2/17				
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	30	(feet)			
Canister Volume (circle)	6 - Liter	1 - Liter			
Sample ID:	VP-4_30_20170302				
Sampler Name:	J. Buck				

LEAK CHECK (circle) YES NO

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2061	0253	3/2/17	0755	-26	3/2/17	1122	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0755	0.0	51.5	25.02	
	0910	0.0	57.9	25.10	-15
Sampling End	1122	0.0	61.8	25.15	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	5	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-106-5_20170302				
Sampler Name:	J. Bayle				

LEAK CHECK (circle) (YES) NO

He Instrument: MGD-2002 **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
0848	0	67.2	(YES) / NO	< 1	(YES) / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
250	0182	3/2/17	0910	-30	3/2/17	1300	-7.5

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0910	0.0	50.9	25.04	
	1027	0.0	57.2	25.10	-25
Sampling End	1300	0.0	60.9	25.16	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	11	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	~~VP-106-20170302~~	VP-106_11_20170302			
Sampler Name:	J. Bull				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
0965	0053	3/2/17	0910	-29	3/2/17	1249	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0910	0.0	50.9	25.04	
	1027	0.0	57.2	25.10	-21.5
Sampling End	1249	0.0	60.9	25.16	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(~~SS-Nested~~)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	19.5	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-106_19.5_20170302				
Sampler Name:	J. BULL				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
150	0052	3/2/17	0910	-28	3/2/17	1249	-7

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0910	0.0	50.9	25.04	
	1027	0.0	57.2	25.10	-20
Sampling End	1249	0.0	60.9	25.16	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTDOOR				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (If applicable)	28	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-106_28_20170302				
Sampler Name:	J. Byl				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1632	0195	3/2/17	0910	-29	3/2/17	1215	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0910	0.0	50.9	25.04	
	1027	0.0	57.2	25.10	-19.5
Sampling End	1215	0.0	60.9	25.16	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	56	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-106_56_20170302				
Sampler Name:	J. BAL				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
950	0091	3/2/17	0910	-30	3/3/17	1306	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0910	0.0	50.9	25.04	
	1027	0.0	57.2	25.10	-22
Sampling End	1306	0.0	60.9	25.14	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	72	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-106_72_20170302				
Sampler Name:	J. Byk				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1056	0133	3/2/17	0910	-29	3/2/17	1314	-7.5

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0910	0.0	52.9	25.04	
	1027	0.0	57.2	25.10	-22.5
Sampling End	1314	0.0	60.9	25.16	

OBSERVATIONS/NOTES

DUPLICATE

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)		(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-106-72-20170302-DUP				
Sampler Name:	J. BUC				

LEAK CHECK (circle) **YES** **NO**

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
		3/2/17	0910	< -30	3/2/17	1314	8.5

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0910	0.0	50.9	25.04	
	1027	0.0	57.2	25.10	-24.5
Sampling End	1314	0.0	60.9	25.16	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/2/17				
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	84	(feet)			
Canister Volume (circle)	6 - Liter	1 - Liter			
Sample ID:	VP-106_84_20170302				
Sampler Name:	J. Ellis				

LEAK CHECK (circle) YES NO

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2810	0035	3/2/17	0910	-29	3/2/17	1318	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0910	0.0	50.9	25.04	
	1017	0.0	57.2	25.10	-21
Sampling End	1318	0.0	60.5	25.16	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (If applicable)	40	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-3D-40-20170307				
Sampler Name:	J. Byrk				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2664	0033	3/7/17	0819	-30	3/7/17	1200	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0819	0.0	48.4	25.74
	0953			-21
Sampling End	1200	0.0	50.4	25.66

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (If applicable)	51	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-3D_51_20170307				
Sampler Name:	J. Bull				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
466	0557	3/7/17	0819	-28	3/7/17	1155	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0819	0.6	48.4	25.75	
	0953				-19
Sampling End	1155	0.0	50.4	25.60	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	6'	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-30-6'-20170307				
Sampler Name:	J. Bull				

LEAK CHECK (circle) YES (NO)

He Instrument: _____ **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
46	0598	3/7/17	0819	-25	3/7/17	1153	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0811	49.4 ⇒ 0.0		25.7
	0953			-20
Sampling End	1153	~~50.4~~		
		0.0	50.4	25.66

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	~~BBB~~ OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	73	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-3D-73-20170307				
Sampler Name:	J. Bulk				

LEAK CHECK (circle) YES (NO)

He Instrument: _____ **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2091	0040	3/7/17	0819	-30	3/7/17	1204	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0819	0.6	48.4	25.73
				-21
Sampling End	1204	0.0	50.4	25.66

OBSERVATIONS/NOTES

DUPLICATE

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	73	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-3D-73-20170307DUP				
Sampler Name:	J. Bulk				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2661	0425	3/7/17	0819	-29	3/7/17	1204	-7.5

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0819	0.0	48.4	25.75
	0953			-19.5
Sampling End	1204	0.0	52.4	25.66

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	Hunter Roberts				
Date:	3/6/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	5	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	UP-107_5_20170306				
Sampler Name:	J. Bull				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2027	0376	3/6/17	0930	-30	3/6/17	1308	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0930	0.0	66.4	25.95	
	1122	0.0	66.7	25.93	-18
Sampling End	1308	0.0	69.5	25.88	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	Hunter Ramp 13				
Date:	3/6/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	13	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-107_13_20170306				
Sampler Name:	J. Bull				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
365	0530	3/6/17	0930	-30	3/6/17	1343	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0930	0.8	66.4	25.95
	1122	0.0	66.7	25.93
Sampling End	1343	0.0	69.5	25.98

-20

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	Hunter Rooms				
Date:	3/6/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	20	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-107_20_20170306				
Sampler Name:	J. Buck				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2122	0134	~~3/6/17 0930~~	0930	~-30	3/6/17	1350	-6.5

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0930	0.0	66.4	25.95
	1123	0.0	66.7	25.93
Sampling End	1350	0.0	69.5	25.88

-.21

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	Hunter Room				
Date:	3/6/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	33.5	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-107_33.5_20170306				
Sampler Name:	I-Black				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2127	0041	3/6/17	0930	-30	3/6/17	1341	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0930	0.0	66.4	25.55	
	1122	0.0	66.7	25.93	-20,5
Sampling End	1341	0.0	69.5	25.88	-8

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	Hunter Room				
Date:	3/6/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	44	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-107-44-20170306				
Sampler Name:	J. Buck				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2100	0428	3/6/17	0530	-25	3/6/17	1322	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0530	0.0	66.4	25.95	
	1123	0.0	66.7	25.93	-19
Sampling End	1322	0.0	69.5	25.88	-8

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	Hunter Rooftop				
Date:	3/6/17				
Sample Type (Circle)	~~SS~~ Nested	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	60	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-107-60_20170306				
Sampler Name:	J. Byl				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
975	0356	3/6/17	0930	-30	3/6/17	1338	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0930	0.0	66.4	25.95	
	1122	0.0	66.7	25.93	-22
Sampling End	1338	0.0	69.5	25.88	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	Hunter Room				
Date:	3/6/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	74	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-107-74-20170306				
Sampler Name:	J. Bk				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2669	0129	3/6/17	0930	-30	3/6/17	1312	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	0930	0.0	66.4	25.95	
		0.0	66.7	25.93	-19
Sampling End	1312	0.0	69.5	25.88	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	CORE LABS				
Date:	3/6/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	4.5	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-102_4.5_20170306				
Sampler Name:	J. Bush, D. Blackhurst				

LEAK CHECK (circle) (YES) NO

He Instrument: MGD 2002 Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
1034	0.0	61.2	(YES) / NO	<1	(YES) / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2343	0036	3/6/17	1040	-29	3/6/17	1410	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	1040	0.0	50.4	25.94	
	1141	0.0	54.6	25.91	-23
Sampling End	1410	0.0	55.9	25.86	-8

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient	
Location:	CORE LABS				
Date:	3/6/				
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient	EP
Depth (If applicable)	30	(feet)			
Canister Volume (circle)	6 - Liter	1 - Liter			
Sample ID:	LIJ-VP-7_30_20170306				
Sampler Name:	J. Buc				

LEAK CHECK (circle) YES NO

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1751	0600	3/6/17	~~[illegible]~~ 1035	-29	3/6/17	1408	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	
Sampling Start	1035	0.0	50.4	25.94	
	1140	0.0	54.0	25.91	-24
Sampling End	1408	0.0	55.4	25.86	-8

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	5	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-3_5_20170307				
Sampler Name:	J. Hyk				

LEAK CHECK (circle) (YES) NO

He Instrument: MGD 2002 **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
0802	0	62.2	(YES) / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2312	0082	3/7/17	0814	≤-30	3/7/17	1201	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0814	0.0	49.4	25.75
	0952			-21
Sampling End	1201	0.0	50.4	25.66

OBSERVATIONS/NOTES

DUPLICATE

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	5	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-3_5_20170307DUP				
Sampler Name:	J. Bal				

LEAK CHECK (circle) (YES) NO SEE _5 SHEET

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2352	0049	3/7/17	0814	< -30	3/7/17	1201	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0814	0.0	48.4	25.75
	0952			-21
Sampling End	1201	0.0	50.4	25.66

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUT310C				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	10	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-3_10_20170307				
Sampler Name:	J. RM				

LEAK CHECK (circle) YES (NO)

He Instrument: _____ Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
149	0176	3/7/17	0814	-28	3/7/17	1235	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0814	0.0	48.4	25.75
	0953			-23
Sampling End	1235	0.0	50.4	25.66

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	~~VP-3_20~~ OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	20	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-3_20_20170307				
Sampler Name:	J. Bail				

LEAK CHECK (circle) YES (NO)

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
~~511~~	~~0074~~						
2336	0044	3/7/17	1000	-30	3/7/17	1351	-8.5

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
~~Sampling Start~~	~~0814~~	~~0.0~~	~~48.4~~	~~25.77~~
	0452			-27
Sampling End	1351	0.0	57.4	25.66

OBSERVATIONS/NOTES

SWITCH CAN - AT 1000 - INITIAL CANISTER WAS NOT DRAWING DOWN AT CORRECT RATE

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	36	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-3-30-20170307				
Sampler Name:	J. PMC				

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
571	0386	3/7/17	0814	-30	3/7/17	1236	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0814	0.0	48.4	25.75
	0952			
Sampling End	~~1~~ 1236	0.0	50.4	25.66

-21

OBSERVATIONS/NOTES

VP-108_5_20170307

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient
Location:	OUTSIDE			
Date:	3/7/17			
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (If applicable)	4.5 (feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	VP-108-~~[illegible]~~5_20170307			
Sampler Name:	J. Bird			

LEAK CHECK (circle) (YES) NO

He Instrument: _____ **Units:** %

Time	Ambient He	He In Shroud	> 60%	He in Tubing	< 10%
0745	0	61.0	(YES) NO	21	(YES) NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
805	0197	3/7/17	0854	-30	3/8/17	1345	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	~~0854~~	~~51.5~~	~~[illegible]~~	
	0854	0.0	51.1	25.76 -25
	0955			
Sampling End	1345	0.0	49.8	25.66

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	~~5~~ 10 (feet)				
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-108-~~5~~ 10-20170307				
Sampler Name:	J. Tevlin				

LEAK CHECK (circle) YES (NO)

He Instrument: _____ **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
433	0183	3/7/17	0854	-30	3/7/17	1325	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0854	0.0	51.1	25.76
Sampling End	1325	0.0	50.4	25.66

-24

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	20	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-108_20_20170307				
Sampler Name:	J. Rule				

LEAK CHECK (circle)	YES	(NO)
He Instrument:		Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
507	0158	3/7/17	0854	-29	3/7/17	1209	-7

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0854	0.0	51.1	25.76
	0955			-21
Sampling End	1201	0.0	50.4	25.66

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	29.5 (feet)				
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-108-29.5-20170307				
Sampler Name:	J. Bik				

LEAK CHECK (circle) YES (NO)

He Instrument: _____ **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2822	0145	3/7/17	0854	-29	3/7/17	1244	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0854	0.0	51.1	25.71
	0955			-.05
Sampling End	1244	0.0	50.4	25.66

OBSERVATIONS/NOTES

VP-108D_50

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	50.5	(feet)			
Canister Volume (circle)	6 - Liter	1 - Liter			
Sample ID:	VP-108D_50-20170307				
Sampler Name:	J.M				

LEAK CHECK (circle) YES NO

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
657	0426	3/7/17	0850	-29	3/7/16	1235	-7

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0850	0.0	51.1	25.76
	0957			-21
Sampling End	1235	0.0	50.4	25.66

OBSERVATIONS/NOTES

DUP

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(iPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	50.5	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	UP-108D_50.5_20170307DUP				
Sampler Name:	J. RVK				

LEAK CHECK (circle) YES (NO)

He Instrument: _____ **Units:** %

Time	Ambient He	He In Shroud	> 60%	He In Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2143	0051	3/7/17	0850	<-30	3/7/17	1235	-9.5

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0850	0.0	51.1	25.72
	0955			
Sampling End	1235	0.0	50.4	25.66

-24

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	(OUTSIDE)				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	60	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-108D-60_20170307				
Sampler Name:	J. Tur				

LEAK CHECK (circle) YES (NO)

He Instrument: _____ **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2815	0037	3/7/17	0850	-30	3/7/17	1220	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0850	0.0	57.1	25.76
	0955			
Sampling End	1220	0.0	50.4	25.66

-24

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	(IPark)	LA Fitness	LA Fitness	Ambient	
Location:	OUTSIDE				
Date:	3/7/17				
Sample Type (Circle)	(SS-Nested)	Sub-Slab	Indoor	Ambient	EP
Depth (if applicable)	70	(feet)			
Canister Volume (circle)	(6 - Liter)	1 - Liter			
Sample ID:	VP-108_70_20170307				
Sampler Name:	J.M				

LEAK CHECK (circle) YES (NO)

He Instrument: _____ **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1641	0103	3/7/17	0850	-30	3/7/17	1228	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Kestrel 4500, MiniRae 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0850	0.0	51.1	25.76
	0955			
Sampling End	1228	0.0	50.4	25.66

-24

OBSERVATIONS/NOTES

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-102_4.5	2343	0036	3/6/17	1070	-29	50.4	25.94	~~1410~~	-8		
VP-102_8.5	0196	0033	2/26/17	1010	-30	61.1	25.39	1347	-8	63.6	25.41
VP-102_19.5	682	0426	2/26/17	1010	-28	61.1	25.39	1344	-8	63.6	25.41
VP-102_51.5	931	0429	2/26/17	1010	-28	61.1	25.39	1345	-8	63.6	25.41
VP-102_57.5	1046	0598	2/26/17	1010	-30	61.1	25.39	1350	-8	63.6	25.41
VP-102_61.5	429	0428	2/26/17	1010	-29	61.1	25.39	1344	-8	63.6	25.41
VP-102_73.5	2703	0597	2/26/17	1010	-28	61.1	25.39	1400	-7.5	63.6	25.41
VP-103_5	820	0129	2/26/17	0821	-30	68.0	25.34	1209	-8	73.1	25.41
VP-103_10	1031	0049	2/26/17	0821	-30	68.0	25.34	1210	-8	73.1	25.41
VP-103_20	1258	0600	2/26/17	0821	-29	68.0	25.34	1154	-8	73.1	25.41
VP-103_30	1267	0530	2/26/17	0821	-30	68.0	25.34	1220	-8	73.1	25.41
VP-103_40	1069	0044	2/26/17	0822	-30	68.0	25.34	1209	-8	73.1	25.41
VP-103_50	2171	0376	2/26/17	0822	-28	68.0	25.34	1155	-8	73.1	25.41
VP-103_61.5	570	0040	2/26/17	0822	-30	68.0	25.34	1226	-8	73.1	25.41
VP-103_74.5	1750	0082	2/26/17	0822	-30	68.0	25.34	1208	-8	73.1	25.41
VP-104_5	0595	FC0103	2/21/17	0905	>-30	56.8	25.79	1236	-8	60.7	25.73
VP-104_10	2038	FC0598	2/21/17	0905	-30	56.8	25.79	1236	-9	60.7	25.73
VP-104_19	2095	FC0033	2/21/17	0905	>-30	56.8	25.79	1238	-9	60.7	25.73

GW INFLUENCE
LEACH INFLUENCE

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-104_30	0960	FC0426	2/21/17	0906	-27	56.8	25.79	1237	-8	60.7	25.73
VP-104_40	1283	FC0037	2/21/17	0906	>-30	56.8	25.79	1237	-9	60.7	25.73
VP-104_50	1498	FC0041	2/21/17	0906	>-30	56.8	25.79	1238	-9	60.7	25.73
VP-104_62	0930	FC0044	2/21/17	0906	-30	56.8	25.79	1238	-9	60.7	25.73
VP-104_73	2131	FC0082	2/21/17	0907	-30	56.8	25.79	1238	-9	60.7	25.73
VP-107_5	2027	0376	3/6/17	0930	-29	66.4	25.95	1308	-8	69.5	25.88
VP-107_13	365	0530		0930	-30			1343	-8	69.5	25.88
VP-107_20	~~2600~~ 2122	~~0264~~ 0134		0930	L-30			1350	-6.5	69.5	25.88
VP-107_33.5	2127	0041		0930	-30			1341	-8	69.5	25.80
VP-107_44	2100	0428		0930	-29			1322	-8	69.5	25.88
VP-107_60	975	0356		0930	-30			1338	-8	69.5	25.88
VP-107_74	2669	0129		0930	-30			1312	-8	69.5	25.88
LIJ-VP-7_5	847	0041	2/26/17	0956	-30	58.7	25.38	1336	-9	61.6	25.41
LIJ-VP-7_10	1515	0103	2/26/17	0957	-30	58.7	25.38	1336	-8	61.6	25.41
LIJ-VP-7_20	1288	0264	2/26/17	0955	-30	58.7	25.38	1400	-9	61.6	25.41
LIJ-VP-7_30	2816	0025	2/26/17	0955	-30	58.7	25.38	1340	-18	61.6	25.41
LIJ-VP-7_40	859	0037	2/26/17	0956	-30	58.7	25.38	1337	-8	61.6	25.41
LIJ-VP-7_50	1051	0145	2/26/17	0956	-30	58.7	25.38	1335	-8	61.6	25.41
FPM-20_5	0005	FC0597	2/21/17	1001	-28	59.6	25.79	1347	-8	64.2	25.72

20 Dup = 30 2122/0134 3/6/17

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
FPM-20_9.4	0085	FC0145	2/21/17	1000	-30	59.6	25.79	1324	-9	64.2	25.71
VP-8_5	2333	FC0264	2/21/17	0945	>-30	57.3	25.79	1405	-9	60.2	25.72
VP-8_10	2842	FC0040	2/21/17	0945	-30	57.3	25.79	1335	-8	60.2	25.72
VP-8_20	2323	FC0428	2/21/17	0945	-29	57.3	25.79	1335	-8	60.2	25.72
VP-8D_53.5	1033	FC0049	2/21/17	0941	-30	57.3	25.79	1310	-9	60.2	25.72
VP-8D_62.5	2113	FC0606	2/21/17	0941	-30	57.3	25.79	1311	-8	60.2	25.72
VP-8D_72.5	2803	FC0025	2/21/17	0941	-29	57.3	25.79	1311	-9	60.2	25.72
VP-NYSDEC-5_5	2676	0368	2/23/17	0845	>-30	74.4	25.32	1227	-9	70.5	25.27
VP-NYSDEC-5_10	1582	0358	2/23/17	0845	-30	74.4	25.32	1208	-9	70.3	25.27
VP-NYSDEC-5_20	2295	0865	2/23/17	0845	>-30	74.4	25.32	1208	-9	70.3	25.27
VP-NYSDEC-5_30	1041	0253	2/23/17	0845	-27	74.4	25.32	1208	-9	70.3	25.27
VP-NYSDEC-5_40	2826	1048	2/23/17	0845	>-30	74.4	25.32	1303	-9	70.2	25.27
VP-NYSDEC-5_50	2762	0054	2/23/17	0845	-29\.5	74.4	25.32	1208	-9	70.3	25.27
VP-9_10	1199	0134	2/23/17	0826	-30	74.4	25.32	1156	-9	73.6	25.26
VP-9_20	0871	0056	2/23/17	0826	-28	74.4	25.32	1204	-9	73.6	25.26
VP-9_30	2380	0053	2/23/17	0826	-29	74.4	25.32	1210	-9	73.6	25.26
VP-9_40	2820	0091	2/23/17	0826	-30	74.4	25.32	1210	-9	73.6	25.26
VP-9_50	2366	0355	2/23/17	0826	-30	74.4	25.32	1156	-9	73.6	25.26
VP-9_60	2183	1084	2/23/17	0826	-29	74.4	25.32	1159	-8	73.6	25.26

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-105_5	1087	0320	2/23/17	0901	-29	74.4	25.32	1250	-10	74.0	25.25
VP-105_10	944	0356	2/23/17	0901	>-30	74.4	25.32	1249	-9	74.0	25.25
VP-105_20	2700	0045	2/23/17	0901	-29	74.4	25.32	1249	-9	74.0	25.25
VP-105_32	2697	0262	2/23/17	0901	-30	74.4	25.32	1250	-29	74.0	25.25
VP-105_50	858	0133	2/23/17	0901	-30	74.4	25.32	1250	-8	74.0	25.25
VP-105_60	1065	0039	2/23/17	0905	-30	74.4	25.32	1248	-8	74.0	25.25
VP-105_72	2768	0308	2/23/17	0901	>-30	74.4	25.32	1248	-8	74.0	25.25
VP-1_5	966	0308	3/2/17	0835	>-30	53.2	25.03	1235	-8	61.8	25.15
VP-1_10	2308	0368	3/2/17	0835	>-30	53.2	25.03	1235	-8	61.8	25.15
VP-1_20	735	0262	3/2/17	0835	-29	53.2	25.03	1225	-8	61.8	25.15
VP-1_30	2128	0355	3/2/17	0835	-29	53.2	25.03	1216	-7	61.8	25.15
VP-2_5	2719	0354	3/2/17	0816	-29	53.2	25.03	1200	-8	61.8	25.15
VP-2_10	1616	1048	3/2/17	0816	>-30	53.2	25.03	1214	-9.5	61.8	25.15
VP-2_20	2705	0045	3/2/17	0816	-30	53.2	25.03	1205	-8	61.8	25.15
VP-2_30	2658	0358	3/2/17	0816	>-30	53.2	25.03	1201	-8	61.8	25.15
VP-3_5	2312	0062	3/7/17	0814	<-30	48.4	25.75	1201	-8	50.4	25.66
VP-3_10	149	0176	↓	↓	-28	↓	↓	~~1235~~ 1235	-9	50.4	25.66
VP-3_20	~~2336~~ 2336	~~0044~~ 0044	↓	1050	-29	↓	↓	1351	-8.5	50.4	25.66
VP-3_30	571	0386	↓	↓	-30	↓	↓	1236	-9	50.4	25.66
VP-3_5_DUP	2352	0044		↓	<-30			1201	-8	50.4	25.66

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-3D_40	2664	0033	3/7/17	0819	< -30	48.4	25.75	1200	-8	50.4	25.66
VP-3D_51	466	0597	↓	↓	-28	↓	↓	1155	-8	50.4	25.66
VP-3D_61	46	0598	↓	↓	-29	↓	↓	1153	-8	50.4	25.66
VP-3D_73	2091	0040	↓	↓	-30	↓	↓	1204	-8	50.4	25.66
VP-4_5	0258	1084	3/2/17	0755	-28	51.5	25.02	1122	-8	61.8	25.15
VP-4_10	2874	0054	3/2/17	0755	-28	51.5	25.02	1128	-8	61.8	25.15
VP-4_20	0638	0865	3/2/17	0755	-30	51.5	25.02	1140	-8	61.8	25.15
VP-4_30	2061	0253	3/2/17	0755	-26	51.5	25.02	1122	-8	61.8	25.15
VP-106_5	250	0182	3/2/17	0910	-30	50.9	25.04	1300	-7.5	60.9	25.16
VP-106_11	0969	0053	3/2/17	0910	-29	50.9	25.04	1249	-8	60.9	25.16
VP-106_19.5	190	0056	3/2/17	0910	-28	50.9	25.04	1249	-7	60.9	25.16
VP-106_28	1632	0195	3/2/17	0910	-29	50.9	25.04	1215	-9	60.9	25.16
VP-106_56	950	0091	3/2/17	0910	-30	50.9	25.04	1306	-8	60.9	25.16
VP-106_72	1056	0133	3/2/17	0910	-29	50.9	25.04	1314	-7.5	60.9	25.16
VP-106_84	2810	0035	3/2/17	0910	-29	50.9	25.04	1318	-8	60.9	25.16
VP-108_5	805	0187	3/7/17	0854	-30	51.1	25.76	1345	-9	~~45.8~~ 50.4	25.66
VP-108_10	433	0183	↓	↓	< -30	↓	↓	1325	-8	50.4	25.66
VP-108_20	507	0158	↓	↓	-29	↓	↓	1209	-7	50.4	25.66
VP-108_29.5	2822	0145	↓	↓	< -30	↓	↓	1244	-8	50.4	25.66
VP-30_73 DUP	2061	0429	3/7/17	0819	-29	51.1	25.76	1204	-7.5	50.4	25.66
~~VP-108_20~~ DUP	2145	0155	3/7/17	0854	-30						

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-108D_50.5 DUP	2143	0051	3/7/17	0852	<-30	51.1	25.76	1235	-9.5	50.4	25.66
VP-108D_60	2815	0037		0850	-30			1220	-8	50.4	25.66
VP-108D_70	1641	0103		0850	<-30			1228	-8	50.4	25.66
VP-108D_50.5	657	0426		0850	-28			1235	-7	50.4	25.66

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Duplicate Samples

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-8D_62.5_20170220DUP	2136	FC0129	2/21/17	0941	-30	57.3	25.79	1311	-9	60.2	25.72
FPM-20_5_20170220DUP	1252	FC0051	2/21/17	1001	-30	59.6	25.79	1347	-10	64.2	25.72
LIJ-VP-7_5_20170226DUP	1261	0036	2/26/17	0956	-28.5	58.7	25.38	1336	-7	61.6	25.41
VP-9_60_20170223DUP	952	0354	2/23/17	0826	-30	74.4	25.32	1159	-10	73.6	25.26
VP-102_73.5_20170226	1740	0051	2/26/17	1010	-30	61.1	25.39	1400	-9.5	63.6	25.41
VP-2_10_20170302DUP	1072	1037	3/2/17	0816	<-30	53.2	25.03	1214	-7	61.8	25.15
VP-1_30_20170302DUP	2755	0606	3/2/17	0835	<-30	53.2	25.03	1216	-8.5	61.8	25.15
VP-106_72_20170302DUP	2169	0039	3/2/17	0910	<-30	50.9	25.04	1314	-8.5	60.9	25.16
LIJ- VP-7_30_20170306	1751 ~~0600~~	0600	03/06/17	1035	-29	50.4	25.94	1400	-8	55.9	25.86
VP-3D_73_DUP	2661	0429	3/7/17	0814	-29	51.1	25.76	1204	-7.5	50.4	25.66
VP-108D_50.5DUP	2143	0051	3/7/17	0850	-30	51.1	25.76	1235	-9.5	50.4	25.66
VP-3.5_DUP	2352	0049	3/7/17	0814	-30	48.4	25.75	1201	-8	50.4	25.66

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-102_4.5		NO SAMPLE ON 2/26/17									
VP-102_8.5	0196	0033	2/26/17	1010	-30	61.1	25.39	1347	-8	63.6	25.41
VP-102_19.5	682	0426	2/26/17	1010	-28	61.1	25.39	1344	-8	63.6	25.41
VP-102_51.5	931	0429	2/26/17	1010	-28	61.1	25.39	1345	-8	63.6	25.41
VP-102_57.5	1046	0598	2/26/17	1010	-30	61.1	25.39	1350	-8	63.6	25.41
VP-102_61.5	429	0428	2/26/17	1010	-29	61.1	25.39	1344	-8	63.6	25.41
VP-102_73.5	2703	0597	2/26/17	1010	-28	61.1	25.39	1400	-7.5	63.6	25.41
VP-103_5	820	0129	2/26/17	0821	-30	68.0	25.34	1209	-8	73.1	25.41
VP-103_10	1031	0049	2/26/17	0821	-30	68.0	25.34	1210	-8	73.1	25.41
VP-103_20	1258	0600	2/26/17	0821	-29	68.0	25.34	1154	-8	73.1	25.41
VP-103_30	1267	0530	2/26/17	0821	-30	68.0	25.34	1220	-8	73.1	25.41
VP-103_40	1069	0044	2/26/17	0822	-30	68.0	25.34	1209	-8	73.1	25.41
VP-103_50	2171	0376	2/26/17	0822	-28	68.0	25.34	1155	-8	73.1	25.41
VP-103_61.5	570	0040	2/26/17	0822	-30	68.0	25.34	1226	-8	73.1	25.41
VP-103_74.5	1750	0082	2/26/17	0822	-30	68.0	25.34	1208	-8	73.1	25.41
VP-104_5	0595	FC0103	2/21/17	0905	>-30	56.8	25.79	1236	-8	60.7	25.73
VP-104_10	2038	FC0598	2/21/17	0905	-30	56.8	25.79	1236	-9	60.7	25.73
VP-104_19	2095	FC0033	2/21/17	0905	>-30	56.8	25.79	1238	-9	60.7	25.73

11 DUPS
5 LEAK TESTS

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-104_30	0960	FC0426	2/21/17	0906	-27	56.8	25.79	1237	-8	60.7	25.73
VP-104_40	1283	FC0037	2/21/17	0906	>-30	56.8	25.79	1237	-9	60.7	25.73
VP-104_50	1498	FC0041	2/21/17	0906	>-30	56.8	25.79	1238	-9	60.7	25.73
VP-104_62	0930	FC0044	2/21/17	0906	-30	56.8	25.79	1238	-9	60.7	25.73
VP-104_73	2131	FC0082	2/21/17	0907	-30	56.8	25.79	1238	-9	60.7	25.73
VP-107_5											
VP-107_13											
VP-107_20											
VP-107_33.5											
VP-107_44											
VP-107_60											
VP-107_74											
LIJ-VP-7_5	847	0041	2/26/17	0956	-30	58.7	25.38	1336	-9	61.6	25.41
LIJ-VP-7_10	1515	0103	2/26/17	0957	-30	58.7	25.38	1336	-8	61.6	25.41
LIJ-VP-7_20	1288	0264	2/26/17	0955	-30	58.7	25.38	1400	-9	61.6	25.41
LIJ-VP-7_30	2816	0025	2/26/17	0955	-30	58.7	25.38	1340	-18	61.6	25.41
LIJ-VP-7_40	859	0037	2/26/17	0956	-30	58.7	25.38	1337	-8	61.6	25.41
LIJ-VP-7_50	1051	0145	2/26/17	0956	-30	58.7	25.38	1335	-8	61.6	25.41
FPM-20_5	0005	FC0597	2/21/17	1001	-28	59.6	25.79	1347	-8	64.2	25.72

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
FPM-20_9.4	0085	FC0145	2/21/17	1000	-30	59.6	25.79	1324	-9	64.2	25.71
VP-8_5	2333	FC0264	2/21/17	0945	>-30	57.3	25.79	1405	-9	60.2	25.72
VP-8_10	2842	FC0040	2/21/17	0945	-30	57.3	25.79	1335	-8	60.2	25.72
VP-8_20	2323	FC0428	2/21/17	0945	-29	57.3	25.79	1335	-8	60.2	25.72
VP-8D_53.5	1033	FC0049	2/21/17	0941	-30	57.3	25.79	1310	-9	60.2	25.72
VP-8D_62.5	2113	FC0606	2/21/17	0941	-30	57.3	25.79	1311	-8	60.2	25.72
VP-8D_72.5	2803	FC0025	2/21/17	0941	-29	57.3	25.79	1311	-9	60.2	25.72
VP-NYSDEC-5_5	2676	0368	2/23/17	0845	>-30	74.4	25.32	1227	-9	70.5	25.27
VP-NYSDEC-5_10	1582	0358	2/23/17	0845	-30	74.4	25.32	1208	-9	70.3	25.27
VP-NYSDEC-5_20	2295	0865	2/23/17	0845	>-30	74.4	25.32	1208	-9	70.3	25.27
VP-NYSDEC-5_30	1041	0253	2/23/17	0845	-27	74.4	25.32	1208	-9	70.3	25.27
VP-NYSDEC-5_40	2826	1048	2/23/17	0845	>-30	74.4	25.32	1303	-9	70.2	25.27
VP-NYSDEC-5_50	2762	0054	2/23/17	0845	-29\.5	74.4	25.32	1208	-9	70.3	25.27
VP-9_10	1199	0134	2/23/17	0826	-30	74.4	25.32	1156	-9	73.6	25.26
VP-9_20	0871	0056	2/23/17	0826	-28	74.4	25.32	1204	-9	73.6	25.26
VP-9_30	2380	0053	2/23/17	0826	-29	74.4	25.32	1210	-9	73.6	25.26
VP-9_40	2820	0091	2/23/17	0826	-30	74.4	25.32	1210	-9	73.6	25.26
VP-9_50	2366	0355	2/23/17	0826	-30	74.4	25.32	1156	-9	73.6	25.26
VP-9_60	2183	1084	2/23/17	0826	-29	74.4	25.32	1159	-8	73.6	25.26

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-105_5	1087	0320	2/23/17	0901	-29	74.4	25.32	1250	-10	74.0	25.25
VP-105_10	944	0356	2/23/17	0901	>-30	74.4	25.32	1249	-9	74.0	25.25
VP-105_20	2700	0045	2/23/17	0901	-29	74.4	25.32	1249	-9	74.0	25.25
VP-105_32	2697	0262	2/23/17	0901	-30	74.4	25.32	1250	-29	74.0	25.25
VP-105_50	858	0133	2/23/17	0901	-30	74.4	25.32	1250	-8	74.0	25.25
VP-105_60	1065	0039	2/23/17	0905	-30	74.4	25.32	1248	-8	74.0	25.25
VP-105_72	2768	0308	2/23/17	0901	>-30	74.4	25.32	1248	-8	74.0	25.25
VP-1_5	966	0308	3/2/17	0835	< -30	53.2	25.03	1235	-8	61.8	25.15
VP-1_10	2308	0368	3/2/17	↓	< -30	↓	↓	1235	-8	↓	↓
VP-1_20	735	0262	3/2/17	↓	-29	↓	↓	1225	-8	↓	↓
VP-1_30	2128	0355	3/2/17	↓	-29	↓	↓	1216	-7	↓	↓
VP-2_5	2719	0354	3/2/17	~~0816~~ 0816	-29	↓	↓	1200	-8	61.8	25.15
VP-2_10	1616	1048	3/2/17	0816	< -30	↓	↓	1214	-9.5	↓	↓
VP-2_20	2705	0045	3/2/17	0816	~~-30~~ ~~<-30~~	↓	↓	1205	-8	↓	↓
VP-2_30	2658	0358	3/2/17	0816	< -30	↓	↓	1201	-8	↓	↓
VP-3_5											
VP-3_10											
VP-3_20											
VP-3_30											

< -30

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-3D_40											
VP-3D_51											
VP-3D_61											
VP-3D_73			3/2/17								
VP-4_5	0258	1084	~~3/2/17~~	0755	-28	51.5	25.02	1122	-8	61.8	25.15
VP-4_10	2874	0054	~~3/2/17~~		-28			1128	-8		
VP-4_20	0638	0865	~~3/2/17~~		-30			1140	-8		
VP-4_30	2061	0253	~~3/2/17~~		-26			1122	-8		
VP-5_5											
VP-5_10											
VP-5_20											
VP-5_30											
VP-6_5			~~3/2/17~~								
VP-6_10			~~3/2/17~~								
VP-6_20			~~3/2/17~~								
VP-6_30			~~3/2/17~~								
VP-101_5											
VP-101_15											
VP-101_27											

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-106_5	250	0182	3/2/17	-30	0910	50.9	25.04	1300	-7.5		
VP-106_11	0969	0053	↓	-29	↓	↓	↓	1249	-8		
VP-106_19.5	190	0056		-28				1249	-7		
VP-106_28	1632	0195		-29				1215	-9		
VP-106_56	950	0091		-30				1306	-8		
VP-106_72	1056	0133		-29				1314	-7.5		
VP-106_84	2816	0035	↓	-29	↓	↓	↓	1318	-8		
VP-108_5											
VP-108_10											
VP-108_20											
VP-108_29.5											
VP-108D_50.5											
VP-108D_60											
VP-108D_70											

< -30

2017 Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Duplicate Samples

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
VP-8D_62.5_20170220DUP	2136	FC0129	2/21/17	0941	-30	57.3	25.79	1311	-9	60.2	25.72
FPM-20_5_20170220DUP	1252	FC0051	2/21/17	1001	-30	59.6	25.79	1347	-10	64.2	25.72
LIJ-VP-7_5_20170226DUP	1261	0036	2/26/17	0956	-28.5	58.7	25.38	1336	-7	61.6	25.41
VP-9_60_20170223DUP	952	0354	2/23/17	0826	-30	74.4	25.32	1159	-10	73.6	25.26
VP-102_73.5_20170226	1740	0051	2/26/17	1010	-30	61.1	25.39	1400	-9.5	63.6	25.41
VP-2_10_20170302DUP	1072	1037	3/2/17	0816	7-30	53.2	25.03	1214	-7		
VP-1_30DUP	2755	0604	3/2/17	0845	7-30	53.2	25.03	1216	-8.5		
VP-106_DUP	2164	0039	3/2/17	0910	7-30	50.9	25.04	1314	-8.5		

2017 EP Sampling- Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
EP-C13											
EP-G13											
EP-E14											
EP-C15											
EP-E16											
EP-C17			[illegible]								
EP-G15			[illegible]						—		
EP-E18	2283	0896	3/2/17	1142 [illegible]	-28	67.5	25.12	1151	-8	67.5	25.12
EP-G17	2609	1146	3/2/17	1129	-30	67.5	25.12	1135 [illegible]	-8	67.5	25.12
EP-G18	1016	0729	3/2/17	1125	-28	67.5	25.12	1133 [illegible]	-8	67.5	25.12
EP-M10	1311	2859	3/2/17	1451	-28.5	64.9	25.22	1504	-8	64.9	25.22
EP-O11	2776	0936	3/2/17	1448	-29	61.5	25.22	1453	-8	61.5	25.22
EP-K11	996	2823	3/2/17	1507	-29	64.9	25.22	1511	-8	64.9	25.22
EP-I12	2894	1191	2/23/17	1025	-29	75.1	25.31	1030	-8	75.1	25.31
EP-M12	2244	1247	2/23/17	1012	-29	75.1	25.31	1017	-8	75.1	25.31
EP-O13	2558	0772	2/23/17	1206	-30	75.1	25.31	1211	-8	75.1	25.31
EP-K13	2448	0964	2/23/17	1037	-30	75.1	25.31	1044	-8	75.1	25.31
EP-I14	2619	0839	2/23/17	1216	-30	75.1	25.31	1222	-8	75.1	25.31
VP-102_5_2017 0306	2343	0036	3/6/17	1040	-29						

2017 EP Sampling- Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
EP-M14	2732	0697	2/23/17	1155	-30	75.1	25.31	1200	-8		
EP-K15	911	1205	2/23/17	1051	-29	75.1	25.31	1057	-6	75.1	25.31
EP-I16	2879	0770	2/23/17	1107	-30	75.1	25.31	1113	-8	75.1	25.31
EP-M16	1154	0797	2/23/17	1123	-29	75.1	25.31	1127	-8	75.1	25.31
EP-O15	2774	2807	2/23/17	1137	-29	75.1	25.31	1143	-8	75.1	25.31
EP-J18	1334	0616	3/2/17	1115	-28	68.9	25.12	1120	-8	68.9	25.12
EP-K17	2459	0694	3/2/17	1105	-29	68.5	25.12	1111	-8	68.5	25.12
EP-M18	2790	2829	3/2/17	1052	-29	71.4	25.12	1057	-8	71.4	25.12
EP-O17	2865 ~~2865~~	1206 ~~0924~~	3/2/17	1049 ~~1031~~	~~-28~~ -29	67.5	25.11	1049	-8	67.5	25.11
EP-P18	2465	0928	3/2/17	1031	-29	70.5	25.11	1038	-8	70.5	25.11
EP-GAR01	2557	1240	2/26/17	1124 ~~1106~~	-29	67.1	25.39	1131	-7	67.1	25.39
EP-GAR02	2237	2802	3/2/17	1346	-29	64.0	25.20	1352	-6.5	64.0	25.20
EP-C09	2574	1152	3/7/17	1041	-28	64.6	25.70	1047	-7	64.6	25.70
EP-I08	2645	1130	3/7/17	1055	-30	70.4	25.70	1058	-7	70.4	25.70
EP-I10	2919	1119	3/7/17	1100	-30	70.4	25.70	1106	-7	70.4	25.70
EP-007	2493	0677	2/26/17	1054	-28	64.9	25.39	1059	-8	64.9	25.39
SVE-H09P	1800	FC0695	2/21/17	1110	-29	57.4	25.77	1116	-7	57.4	25.77
SVE-H11P	2082	FC0977	2/21/17	1050	-30	59.2	25.77	1056	-8	59.2	25.77
SVE-H09P_20170221DUP	2778	FC0710	2/21/17	1110	-30	57.4	25.77	1116	-8	57.4	25.77
C&S_DUP	2612	0970	3/7/17	1041	-30				-9		

EP-015 START AM 1132

2017 EP Sampling- Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
EP-K15_20170223DUP	2396	0916	2/23/17	1051	-29	75.1	25-31	1057	-9.5	75.1	25-31
~~EP-GW7-20170~~ 302BDP											
EP-GA2_2017 030220 DP	2875	0665	3/2/17	1346	-29	64.0	25-20	1352	-9.5	64.0	25-20
EP-CP9_ 20170307	2612	0978	3/7/17	1041	-30	64.6	25-70	1047	-9	64.6	25-70

SMOKE TEST

2017 EP Sampling- Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
EP-C13	2233	1168	3/6/17	0756	-28	63.4	25.95	0756	-7	63.4	25.95
EP-G13	2794	2883	3/6/17	1837	-30	71.2	25.85	1842	-8	71.2	25.85
EP-E14	1162	0781	3/6/17	0815	-30	63.4	25.95	0820	-8	63.4	25.95
EP-C15	2414	1113	3/6/17	0745	-30	63.4	25.95	0749	-8	63.4	25.95
EP-E16	1784	1239	3/6/17	1825	-29	70.9	25.85	1830	-8	70.9	25.85
EP-C17	2259	1218	3/6/17	1848	-24	74.1	25.85	1853	-8	74.1	25.85
EP-G15	2488	0990	3/6/17	0820	-30	63.4	25.95	0824	-8	63.4	25.95
EP-E18											
EP-G17											
EP-G18											
EP-M10											
EP-O11											
EP-K11											
EP-I12	2894	1191	2/23/17	1025	-29	75.1	25.31	1030	-8	75.1	25.31
EP-M12	2244	1247	2/23/17	1012	-29	75.1	25.31	1017	-8	75.1	25.31
EP-O13	2558	0772	2/23/17	1206	-30	75.1	25.31	1211	-8	75.1	25.31
EP-K13	2448	0964	2/23/17	1037	>-30	75.1	25.31	1044	-8	75.1	25.31
EP-I14	2619	0839	2/23/17	1216	-30	75.1	25.31	1222	-8	75.1	25.31

2017 EP Sampling- Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
EP-M14	2732	0697	2/23/17	1155	-30	75.1	25.31	1200	-8	75.1	25.31
EP-K15	911	1205	2/23/17	1051	-29	75.1	25.31	1057	-6	75.1	25.31
EP-I16	2879	0770	2/23/17	1107	-30	75.1	25.31	1113	-8	75.1	25.31
EP-M16	1154	0797	2/23/17	1123	-29	75.1	25.31	1127	-8	75.1	25.31
EP-O15	2774	2807	2/23/17	1137	-29	75.1	25.31	1143	-8	75.1	25.31
EP-J18											
EP-K17											
EP-M18											
EP-O17											
EP-P18											
EP-GAR01	2557	1240	2/26/17	1124	-29	67.1	25.39	1131	-7	67.1	25.39
EP-GAR02											
EP-C09											
EP-I08											
EP-I10											
EP-007	2493	0677	2/26/17	1054	-28	64.9	25.39	1059	-8	64.9	25.39
SVE-H09P	1800	FC0695	2/21/17	1110	-29	57.4	25.77	1116	-7	57.4	25.77
SVE-H11P	2082	FC0977	2/21/17	1050	-30	59.2	25.77	1056	-8	59.2	25.77
SVE-H09P_20170221DUP	2778	FC0710	2/21/17	1110	-30	57.4	25.77	1116	-8	57.4	25.77

2017 EP Sampling- Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure

APPENDIX D—LA FITNESS PAIRED INDOOR AIR AND SUBSLAB SAMPLING ANALYTICAL REPORT AND DATA VALIDATION FORMS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 21, 2017

Dallas Mellott
Tetra Tech
234 Mall Boulevard
King Of Prussia, PA 19406

RE: Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Dear Dallas Mellott:
Enclosed are the analytical results for sample(s) received by the laboratory between February 17, 2017 and February 21, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on March 13, 2017 to report MDLs for TO15 compounds.

This report was revised on March 21, 2017 to switch QC duplicate sample IDs, based from client data review not matching parent sample IDs.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Jon Byk, Tetra Tech
Priscilla Merta, Tetra Tech
Joseph Samchuck, Tetra Tech

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Date: March 21, 2017

SS-C1_20170215 (Lab ID: 10379458001)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-C20_20170215 (Lab ID: 10379458002)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-E16_20170215 (Lab ID: 10379458003)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-D7_20170215 (Lab ID: 10379458004)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-D13_20170215 (Lab ID: 10379458005)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-G18_20170215 (Lab ID: 10379458006)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-C1_20170215 (Lab ID: 10379458007)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-C20_20170215 (Lab ID: 10379458008)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-E16_20170215 (Lab ID: 10379458009)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-D7_20170215 (Lab ID: 10379458010)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-D13_20170215 (Lab ID: 10379458011)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-G18_20170215 (Lab ID: 10379458012)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-12_20170215 (Lab ID: 10379458013)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-C20_20170215DUP (Lab ID: 10379458014)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-C1_20170215DUP (Lab ID: 10379458015)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

AA_20170215 (Lab ID: 10379458016)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 21, 2017

General Information:
16 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 462594

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- AA_20170215 (Lab ID: 10379458016)
  - Chloropentafluoroethane
- DUP (Lab ID: 2530069)
  - Chloropentafluoroethane
- IA-12_20170215 (Lab ID: 10379458013)
  - Chloropentafluoroethane
- IA-C20_20170215DUP (Lab ID: 10379458014)
  - Chloropentafluoroethane
- IA-D7_20170215 (Lab ID: 10379458010)
  - Chloropentafluoroethane
- IA-G18_20170215 (Lab ID: 10379458012)
  - Chloropentafluoroethane
- LCS (Lab ID: 2529704)
  - Chloropentafluoroethane
- SS-C1_20170215DUP (Lab ID: 10379458015)
  - Chloropentafluoroethane
- SS-D13_20170215 (Lab ID: 10379458011)
  - Chloropentafluoroethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 21, 2017

Additional Comments:

Analyte Comments:

QC Batch: 462564

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure

- LCS (Lab ID: 2529400)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

QC Batch: 462594

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2529704)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical®
www.pacelabs.com

103794458

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26553

Page: 1 of 2

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 226, SUITE 104E
WHITEHOUSE STATION, NJ 08889
Email To: DALLAS.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELLOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-2507641

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	SS-C1_20170215	6LC		2/15/17	0957	2/15/17	1603	-30	-10	2812	0363							X			001
2	SS-C20_20170215				1011		1638	-30	-9	2684	1083							X			002
3	SS-E16_20170215				0951		1558	-26	-9	2383	1104							X			003
4	SS-D7_20170215				1006		1618	-30	-10	2292	0408							X			004
5	SS-D13_20170215				1021		1537	-29	-10	2835	0249							X			005
6	SS-G18_20170215				0901		1531	-28	-9	2045	0312							X			006
7	IA-C1_20170215				1019		1617	-28	-10	2324	1063							X			007
8	IA-C20_20170215				1025		1635	-29	-9	2146	1014							X			008
9	IA-E16_20170215				1013		1709	-30	-10	2346	0360							X			009
10	IA-D7_20170215				1016		1606	-27	-9	2328	1032							X			010
11	IA-D13_20170215				1029		1706	-30	-9	1201	0213							X			011
12	IA-G18_20170215				0906		1530	-29	-10	0940	0324							X			012

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	2/16/17	1155		2/16/17	1155
	2/16/17	1500	Pace	2-17-17	9:45

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jon Byk, Andrew Kelly, Danielle Kearsley
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 02/15/17

ORIGINAL

Amp 2/17
~~10379458~~ 10379458

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26554

Page: 1 of 2

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE STATION, NJ 08889
Email To: DALLAS.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELLOTT
Copy To:
Purchase Order No.:
Project Name: LMK GREAT NECK
Project Number: 117-0507641

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☒ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	1A-12_20170215	6LC		2/15/17	1004	2/15/17	1621	-30	-10	10856	00600							X			013
2	SS-C1_20170215DUP	↓		↓	0957	↓	1603	-27	-9	08422	03700							X			014
3	1A-C20_20170215DUP				1027		1638	-27	-9	23655	00667							X			015
4	AA_20170215	↓		↓	0847	↓	1549	-26	-6	21556	10730							X			016
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2/16/17	1155	[signature]	2/16/17	1155
[signature]	2/16/17	1500	[signature] / Pace	2-17-17	9:45

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JON RYK, DANIELLE KEARSLEY, ANDREW KELLY

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 02/15/17

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Tetra Tech -NJ

Project #: WO#: 10379458

10379458

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 778478669891

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** 2-17-17 MZ

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers ~~Intact~~?	☑ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	12. No collection times on can tag S.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
unused 2093	2093	0223			
unused 2020	2020	0096			
unused 1051	1051	0258			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Bobeg **Date:** 2/22/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: UST-078
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: MN00064
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia WW Certification #: 382
Wisconsin Certification #: 999407970
Wyoming via EPA Region 8 Certification #: 8TMS-L

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10379458001
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458002
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458003
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458004
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458005
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458006
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458007
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458008
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458009
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458010
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

SAMPLE QUALIFIERS

Sample: 10379458011
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458012
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458013
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458014
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458015
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.
Sample: 10379458016
[1] 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

ANALYTE QUALIFIERS

1M	This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure
2M	This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10379458001	**SS-C1_20170215**	Air	02/15/17 16:03	02/17/17 09:45
10379458002	**SS-C20_20170215**	Air	02/15/17 16:38	02/17/17 09:45
10379458003	**SS-E16_20170215**	Air	02/15/17 15:58	02/17/17 09:45
10379458004	**SS-D7_20170215**	Air	02/15/17 16:18	02/17/17 09:45
10379458005	**IA-D13_20170215**	Air	02/15/17 15:37	02/17/17 09:45
10379458006	**SS-G18_20170215**	Air	02/15/17 15:31	02/17/17 09:45
10379458007	**IA-C1_20170215**	Air	02/15/17 16:17	02/17/17 09:45
10379458008	**IA-C20_20170215**	Air	02/15/17 16:35	02/17/17 09:45
10379458009	**IA-E16_20170215**	Air	02/15/17 17:09	02/17/17 09:45
10379458010	**IA-D7_20170215**	Air	02/15/17 16:06	02/17/17 09:45
10379458011	**SS-D13_20170215**	Air	02/15/17 17:06	02/17/17 09:45
10379458012	**IA-G18_20170215**	Air	02/15/17 15:30	02/17/17 09:45
10379458013	**IA-12_20170215**	Air	02/15/17 16:21	02/17/17 09:45
10379458014	**IA-C20_20170215DUP**	Air	02/15/17 16:03	02/17/17 09:45
10379458015	**SS-C1_20170215DUP**	Air	02/15/17 16:38	02/17/17 09:45
10379458016	**AA_20170215**	Air	02/15/17 15:49	02/17/17 09:45
10379458017	**Unused#2093**	Air		02/21/17 11:13
10379458018	**Unused#2020**	Air		02/21/17 11:13
10379458019	**Unused#1051**	Air		02/21/17 11:13

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10379458001	**SS-C1_20170215**	TO-15	MJL	62
10379458002	**SS-C20_20170215**	TO-15	CH1, MJL	62
10379458003	**SS-E16_20170215**	TO-15	CH1, MJL	62
10379458004	**SS-D7_20170215**	TO-15	MJL	62
10379458005	**IA-D13_20170215**	TO-15	MJL	62
10379458006	**SS-G18_20170215**	TO-15	MJL	62
10379458007	**IA-C1_20170215**	TO-15	MJL	62
10379458008	**IA-C20_20170215**	TO-15	MJL	62
10379458009	**IA-E16_20170215**	TO-15	MJL	62
10379458010	**IA-D7_20170215**	TO-15	NCK	62
10379458011	**SS-D13_20170215**	TO-15	NCK	62
10379458012	**IA-G18_20170215**	TO-15	NCK	62
10379458013	**IA-12_20170215**	TO-15	NCK	62
10379458014	**IA-C20_20170215DUP**	TO-15	NCK	62
10379458015	**SS-C1_20170215DUP**	TO-15	NCK	62
10379458016	**AA_20170215**	TO-15	NCK	62

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462564 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06312_27836.D Lab Sample ID: 2529399
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 12:20
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS for HBN 462564 [AIR/27836]	2529400	06302_27836.D	06:56
02	BLANK for HBN 462564 [AIR/2783	2529399	06312_27836.D	12:20
03	SS-C1_20170215	10379458001	06327.D	20:12
04	SS-C20_20170215	10379458002	06328.D	20:43
05	SS-E16_20170215	10379458003	06329.D	21:16
06	SS-D7_20170215	10379458004	06331.D	22:16
07	SS-D13_20170215	10379458005	06332.D	22:47
08	SS-G18_20170215	10379458006	06333.D	23:20
09	IA-C1_20170215	10379458007	06334.D	23:52
10	IA-C20_20170215	10379458008	06335.D	00:23
11	IA-E16_20170215	10379458009	06336.D	00:56

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462594 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06409_27839.D Lab Sample ID: 2529703
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 13:11
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	IA-D7_20170215	10379458010	06410.D	13:42
02	IA-D13_20170215	10379458011	06411.D	14:14
03	IA-G18_20170215	10379458012	06412.D	14:45
04	IA-12_20170215	10379458013	06413.D	15:16
05	SS-C1_20170215DUP	10379458014	06414.D	15:48
06	IA-C20_20170215DUP	10379458015	06415.D	16:19
07	AA_20170215	10379458016	06417.D	17:17

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06301BFB.D BFB Injection Date: 03/04/2017
Instrument ID: 10AIR7 BFB Injection Time: 06:29
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.12	
75	30.00 - 66.00% of mass 95	45.98	
96	5.00 - 9.00% of mass 95	6.77	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	112.98	
175	4.00 - 9.00% of mass 174	8.39	(7.43)
176	93.00 - 101.00% of mass 174	107.16	(94.84)
177	5.00 - 9.00% of mass 176	6.75	(6.30)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	06304.D	03/04/2017	08:10
2	CAL2	CAL2	06305.D	03/04/2017	08:33
3	CAL3	CAL3	06306.D	03/04/2017	08:57
4	CAL4	CAL4	06307.D	03/04/2017	09:22
5	CAL5	CAL5	06308.D	03/04/2017	09:46
6	CAL6	CAL6	06309.D	03/04/2017	10:10
7	CAL7	CAL7	06310.D	03/04/2017	10:36
8	ICV (LCS)	ICV	06312.D	03/04/2017	11:23

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06401BFB.D BFB Injection Date: 03/05/2017
Instrument ID: 10AIR7 BFB Injection Time: 09:07
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.04	
75	30.00 - 66.00% of mass 95	47.99	
96	5.00 - 9.00% of mass 95	5.69	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	112.34	
175	4.00 - 9.00% of mass 174	8.36	(7.45)
176	93.00 - 101.00% of mass 174	106.07	(94.42)
177	5.00 - 9.00% of mass 176	7.10	(6.69)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06405.D	03/05/2017	10:57
2	CERT	CERT	06409.D	03/05/2017	12:57
3	SS-C20_20170215	10379458002	06427.D	03/05/2017	20:13
4	SS-E16_20170215	10379458003	06428.D	03/05/2017	20:36

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06101BFB.D BFB Injection Date: 03/02/2017
Instrument ID: 10AIRB BFB Injection Time: 07:16
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.18	
75	30.00 - 66.00% of mass 95	48.17	
96	5.00 - 9.00% of mass 95	6.23	
173	Less than 2.00% of mass 174	0.90	(0.94)
174	50.00 - 120.00% of mass 95	95.41	
175	4.00 - 9.00% of mass 174	6.96	(7.30)
176	93.00 - 101.00% of mass 174	91.75	(96.16)
177	5.00 - 9.00% of mass 176	5.98	(6.52)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	06109.D	03/02/2017	11:19
2	CAL2	CAL2	06110.D	03/02/2017	11:46
3	CAL3	CAL3	06111.D	03/02/2017	12:14
4	CAL4	CAL4	06112.D	03/02/2017	12:43
5	CAL5	CAL5	06113.D	03/02/2017	13:10
6	CAL6	CAL6	06114.D	03/02/2017	13:39
7	CAL7	CAL7	06115.D	03/02/2017	14:08
8	ICV (LCS)	ICV	06117.D	03/02/2017	15:02

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06301BFB.D BFB Injection Date: 03/04/2017
Instrument ID: 10AIRB BFB Injection Time: 06:28
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.21	
75	30.00 - 66.00% of mass 95	46.92	
96	5.00 - 9.00% of mass 95	6.41	
173	Less than 2.00% of mass 174	0.94	(1.01)
174	50.00 - 120.00% of mass 95	93.87	
175	4.00 - 9.00% of mass 174	6.88	(7.33)
176	93.00 - 101.00% of mass 174	91.50	(97.48)
177	5.00 - 9.00% of mass 176	5.47	(5.98)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 462564 [AIR/27836]	2529400	06302_27836.D	03/04/2017	06:56
2	CCV	CCV	06302.D	03/04/2017	06:56
3	BLANK for HBN 462564 [AIR/2783	2529399	06312_27836.D	03/04/2017	12:20
4	VP-8_10_20170221(2522486DUP)	2529705-DUP	06319.D	03/04/2017	15:56
5	SS-C1_20170215	10379458001	06327.D	03/04/2017	20:12
6	SS-C20_20170215	10379458002	06328.D	03/04/2017	20:43
7	SS-E16_20170215	10379458003	06329.D	03/04/2017	21:16
8	SS-D7_20170215	10379458004	06331.D	03/04/2017	22:16
9	SS-D13_20170215	10379458005	06332.D	03/04/2017	22:47
10	SS-G18_20170215	10379458006	06333.D	03/04/2017	23:20
11	IA-C1_20170215	10379458007	06334.D	03/04/2017	23:52
12	IA-C20_20170215	10379458008	06335.D	03/05/2017	00:23
13	IA-E16_20170215	10379458009	06336.D	03/05/2017	00:56

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06401BFB.D BFB Injection Date: 03/05/2017
Instrument ID: 10AIRB BFB Injection Time: 09:08
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.04	
75	30.00 - 66.00% of mass 95	47.83	
96	5.00 - 9.00% of mass 95	6.22	
173	Less than 2.00% of mass 174	0.95	(0.99)
174	50.00 - 120.00% of mass 95	95.49	
175	4.00 - 9.00% of mass 174	6.70	(7.02)
176	93.00 - 101.00% of mass 174	91.43	(95.75)
177	5.00 - 9.00% of mass 176	6.11	(6.68)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 462594 [AIR/27839]	2529704	06402_27839.D	03/05/2017	09:36
2	CCV	CCV	06402.D	03/05/2017	09:36
3	BLANK for HBN 462594 [AIR/2783	2529703	06409_27839.D	03/05/2017	13:11
4	IA-D7_20170215	10379458010	06410.D	03/05/2017	13:42
5	IA-D13_20170215	10379458011	06411.D	03/05/2017	14:14
6	IA-G18_20170215	10379458012	06412.D	03/05/2017	14:45
7	IA-12_20170215	10379458013	06413.D	03/05/2017	15:16
8	SS-C1_20170215DUP	10379458014	06414.D	03/05/2017	15:48
9	IA-C20_20170215DUP	10379458015	06415.D	03/05/2017	16:19
10	AA_20170215	10379458016	06417.D	03/05/2017	17:17
11	VP-NYSDEC-5_5_2...(2524233DUP)	2530069-DUP	06419.D	03/05/2017	18:20

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/05/2017

Lab File ID (Standard): 06405.D Time Analyzed: 10:57

Instrument ID: 10AIR7 Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
02	24 HOUR STANDARD	721634	4.504	477369	7.311
02	UPPER LIMIT	1443268	5.004	954738	7.811
02	LOWER LIMIT	360817	4.004	238684	6.811
02	EPA SAMPLE NO.				
02	SS-C20_20170215	682282	4.498	437606	7.308
02	SS-E16_20170215	650899	4.494	413202	7.305

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/04/2017

Lab File ID (Standard): 06302.D Time Analyzed: 06:56

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
12	24 HOUR STANDARD	1504620	5.613	1015806	8.645
12	UPPER LIMIT	3009240	6.113	2031612	9.145
12	LOWER LIMIT	752310	5.113	507903	8.145
12	EPA SAMPLE NO.				
12	LCS for HBN 462564 [AIR/27836]	1504620	5.613	1015806	8.645
12	BLANK for HBN 462564 [AIR/2783	1372533	5.600	883257	8.639
12	VP-8_10_20170221(2522486DUP)	1250767	5.594	817123	8.639
12	SS-C1_20170215	1214830	5.601	825355	8.642
12	SS-C20_20170215	1266794	5.600	855249	8.642
12	SS-E16_20170215	1204479	5.594	826263	8.642
12	SS-D7_20170215	1196437	5.601	808099	8.639
12	SS-D13_20170215	1307811	5.597	842698	8.639
12	SS-G18_20170215	1144882	5.597	769332	8.639
12	IA-C1_20170215	1328713	5.601	830201	8.639
12	IA-C20_20170215	1330203	5.600	859087	8.642
12	IA-E16_20170215	1273487	5.600	833877	8.639

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/05/2017

Lab File ID (Standard): 06402.D Time Analyzed: 09:36

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
10	24 HOUR STANDARD	1422092	5.610	975415	8.645
10	UPPER LIMIT	2844184	6.110	1950830	9.145
10	LOWER LIMIT	711046	5.110	487708	8.145
10	EPA SAMPLE NO.				
10	LCS for HBN 462594 [AIR/27839]	1422092	5.610	975415	8.645
10	BLANK for HBN 462594 [AIR/2783	1368126	5.597	883486	8.639
10	IA-D7 20170215	1357536	5.600	873017	8.639
10	IA-D13 20170215	1377530	5.601	891348	8.642
10	IA-G18 20170215	1381295	5.597	895683	8.639
10	IA-12 20170215	1389391	5.601	906502	8.642
10	SS-C1 20170215DUP	1254535	5.601	816257	8.639
10	IA-C20 20170215DUP	1246320	5.601	812580	8.639
10	AA 20170215	1243220	5.600	807453	8.639
10	VP-NYSDEC-5_5_2...(2524233DUP)	1253537	5.600	819331	8.642

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-C1_20170215 **Lab ID: 10379458001** Collected: 02/15/17 16:03 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**24.0**	ug/m3	4.6	1.6	1.92		03/04/17 20:12	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/04/17 20:12	107-05-1	
Benzene	**<0.23**	ug/m3	0.62	0.23	1.92		03/04/17 20:12	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/04/17 20:12	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/04/17 20:12	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/04/17 20:12	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/04/17 20:12	106-99-0	
2-Butanone (MEK)	**9.2**	ug/m3	5.8	0.44	1.92		03/04/17 20:12	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/04/17 20:12	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/04/17 20:12	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/04/17 20:12	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/04/17 20:12	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/04/17 20:12	75-00-3	
Chloroform	**<0.36**	ug/m3	0.95	0.36	1.92		03/04/17 20:12	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/04/17 20:12	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/04/17 20:12	76-15-3	
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/04/17 20:12	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/04/17 20:12	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/04/17 20:12	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/04/17 20:12	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/04/17 20:12	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/04/17 20:12	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/04/17 20:12	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.9	0.92	1.92		03/04/17 20:12	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/04/17 20:12	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/04/17 20:12	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 20:12	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/04/17 20:12	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/04/17 20:12	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/04/17 20:12	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/04/17 20:12	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/04/17 20:12	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/04/17 20:12	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/04/17 20:12	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/04/17 20:12	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/04/17 20:12	100-41-4	
4-Ethyltoluene	**<0.36**	ug/m3	1.9	0.36	1.92		03/04/17 20:12	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/04/17 20:12	87-68-3	
n-Hexane	**3.2**	ug/m3	1.4	0.69	1.92		03/04/17 20:12	110-54-3	
2-Hexanone	**1.7J**	ug/m3	8.0	0.79	1.92		03/04/17 20:12	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/04/17 20:12	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/04/17 20:12	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 20:12	108-87-2	
Methylene Chloride	**20.6**	ug/m3	6.8	1.0	1.92		03/04/17 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/04/17 20:12	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/04/17 20:12	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D
Report Date: 05-Mar-2017 15:40

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06327.D
Lab Smp Id: 10379458001
Inj Date : 04-MAR-2017 20:12
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 27
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.066	3.060	(0.548)	10454	0.22599	0.434	
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.545	(0.633)	41798	9.36385	18.0	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.665	3.674	(0.654)	4097	0.12301	0.236	
17	Acrolein	56	3.674	3.684	(0.656)	3495	0.97257	1.87	
18	Acetone	43	3.719	3.722	(0.664)	99777	5.17646	9.94	(Q)
19	Isopropyl Alcohol	45	3.767	3.767	(0.673)	23627	1.20190	2.31	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D
Report Date: 05-Mar-2017 15:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.957	(0.707)	7481	0.29604	0.568	
	25 Methylene chloride	49	3.999	4.005	(0.714)	41368	3.04075	5.84	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.436	4.391	(0.792)	19664	0.78038	1.50	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.488	4.491	(0.801)	361950	9.36476	9.36	
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.814)	8812	1.59603	3.06	
	34 n-Hexane	57	4.584	4.584	(0.819)	9022	0.46572	0.894(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.719	4.716	(0.843)	3112	0.12482	0.240(QM)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	5.009	4.992	(0.894)	5164	0.38387	0.737	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1214830	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.976	5.989	(1.067)	156895	7.68663	14.8	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.070	7.076	(1.262)	1059112	9.74070	9.74	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						(D)
	61 Toluene	91	7.143	7.153	(1.276)	9697	0.19764	0.379	
	62 Methyl Butyl Ketone	43	7.375	7.372	(0.853)	5572	0.21375	0.410	
	63 n-Octane	43	7.571	7.584	(0.876)	9206	0.32610	0.626(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.923)	19354	0.67530	1.30	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	825355	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.076	9.082	(1.050)	5283	0.11088	0.213	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D
Report Date: 05-Mar-2017 15:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.381	11.378	(2.032)	2798	0.32502	0.624	(M)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	473264	10.4092	10.4	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	3617	0.44552	0.855	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D
Report Date: 05-Mar-2017 15:40

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06327.D
Lab Smp Id: 10379458001
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

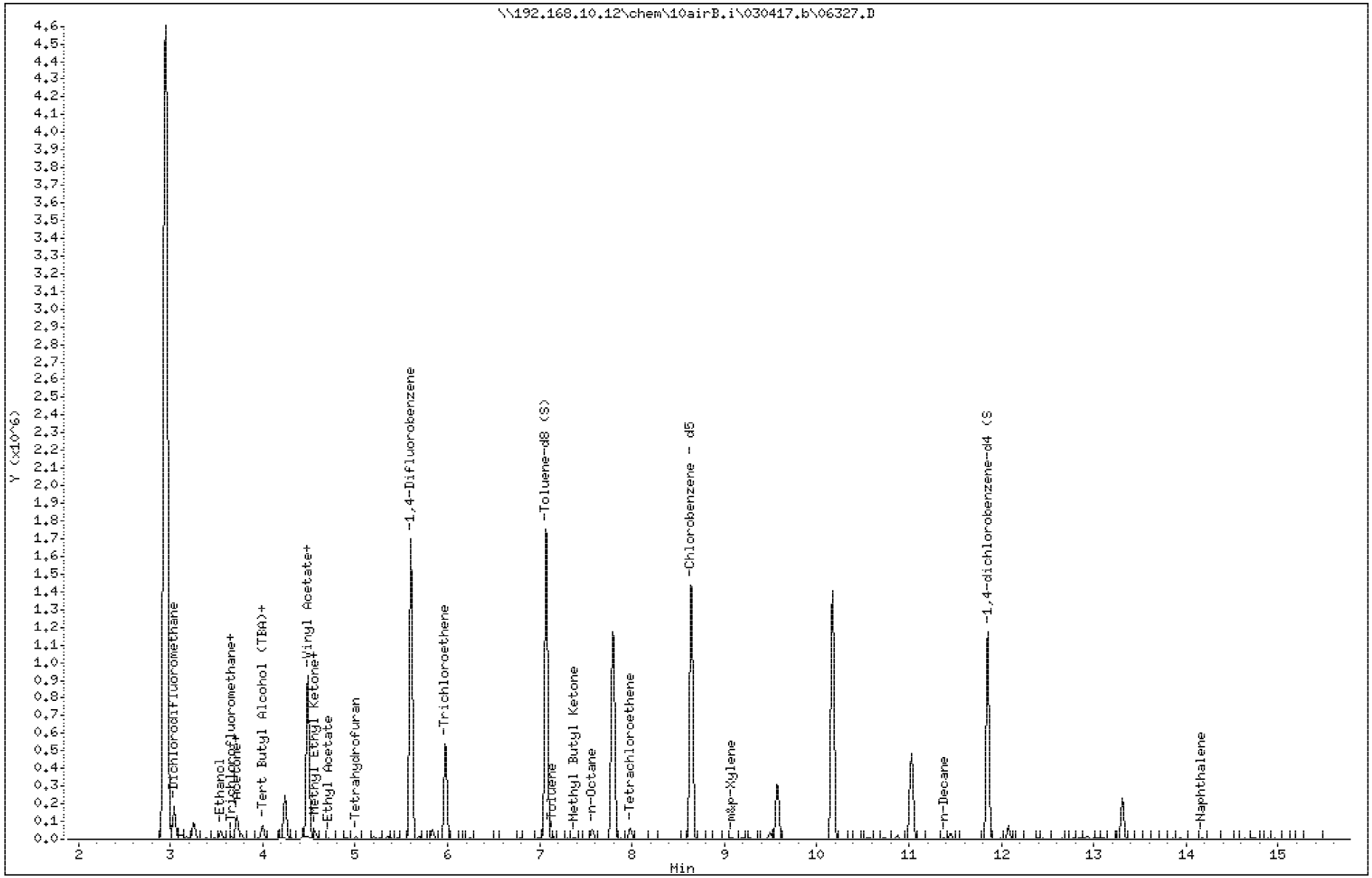
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1214830	-14.09
67 Chlorobenzene - d	951026	570616	1331436	825355	-13.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D
Date : 04-MAR-2017 20:12
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

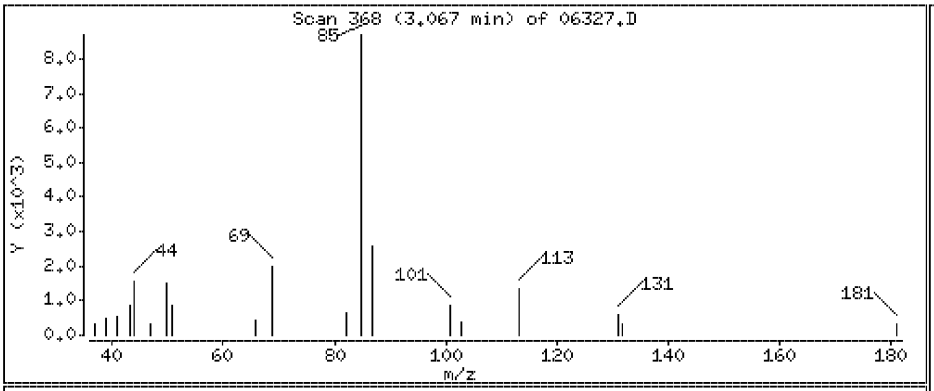
Operator: MJL

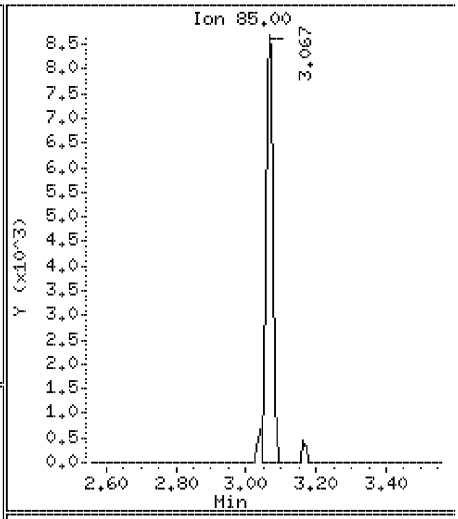
Column phase: J&W DB-5

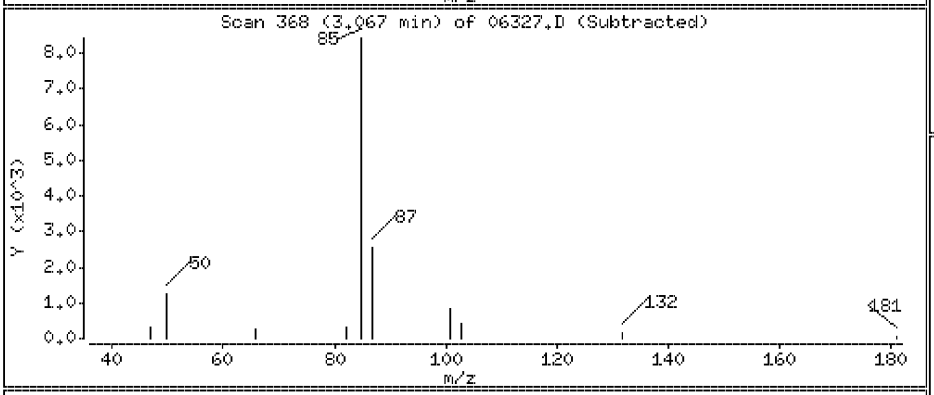
Column diameter: 0.32

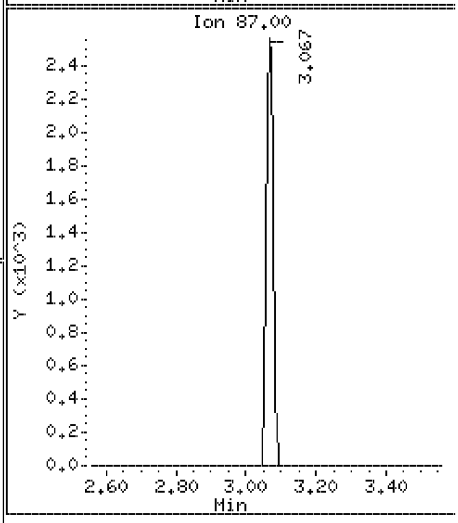
5 Dichlorodifluoromethane

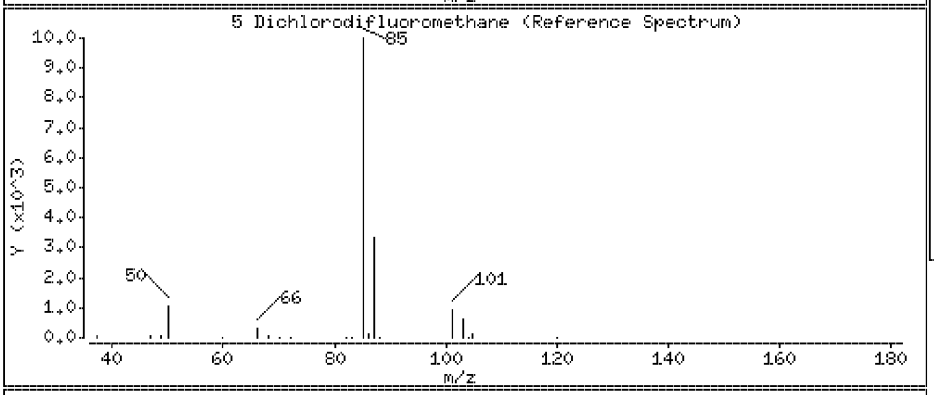
Concentration: 0.434 ppbv

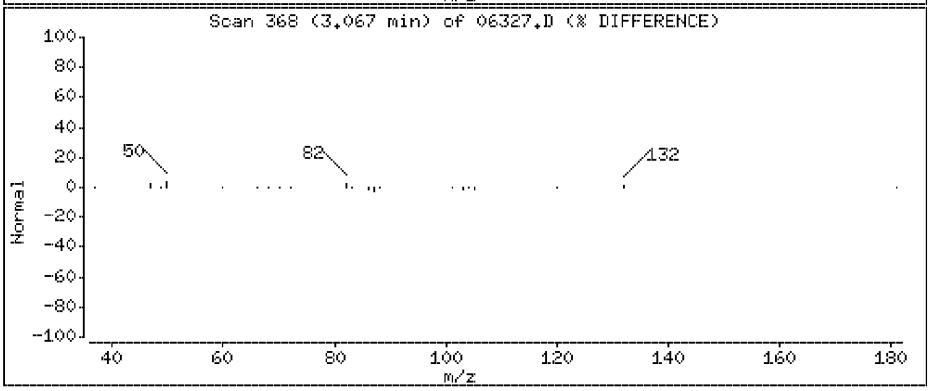












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

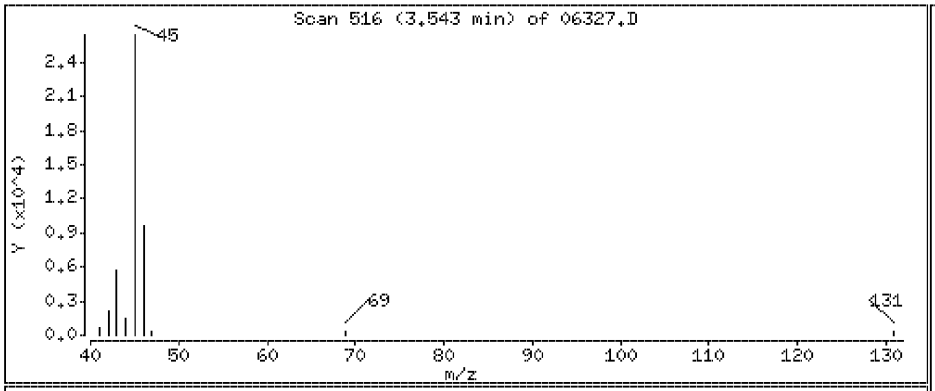
Operator: MJL

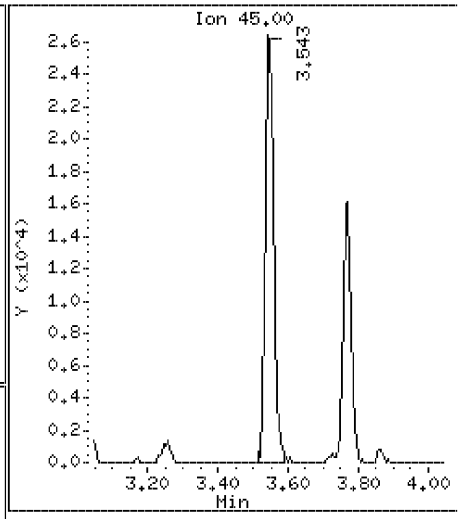
Column phase: J&W DB-5

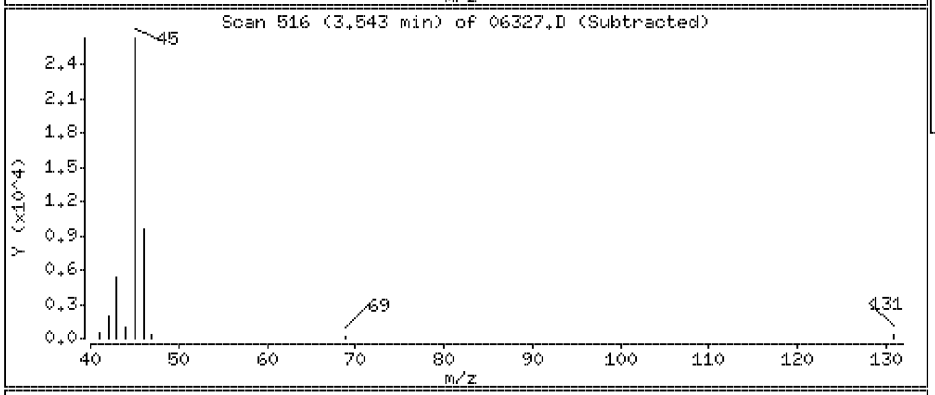
Column diameter: 0.32

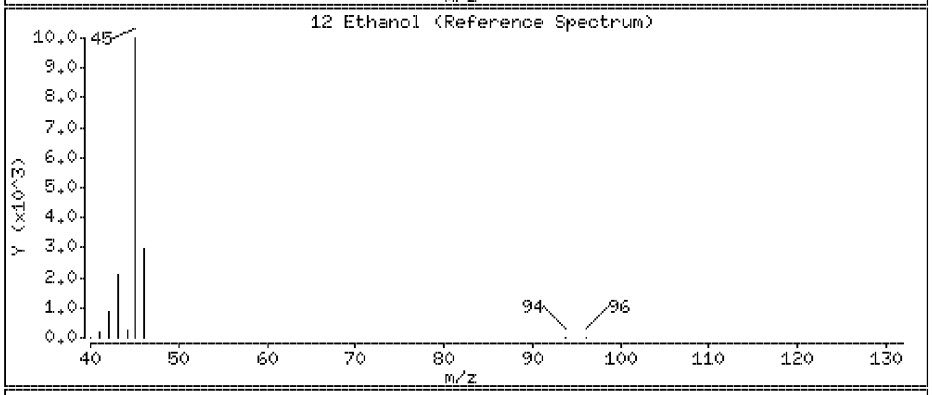
12 Ethanol

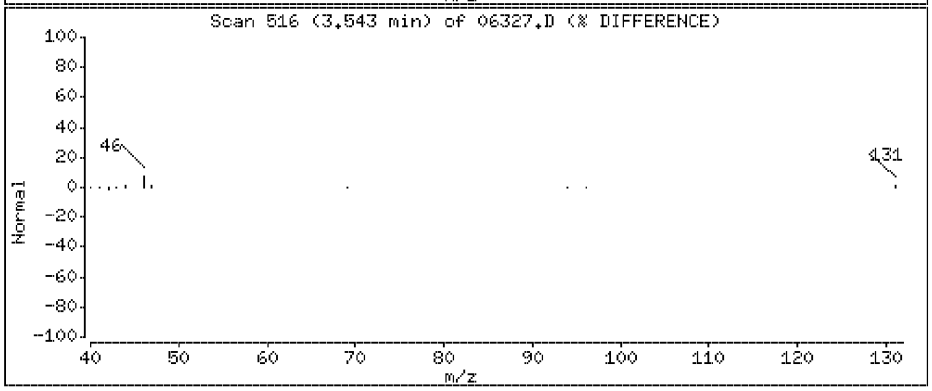
Concentration: 18.0 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

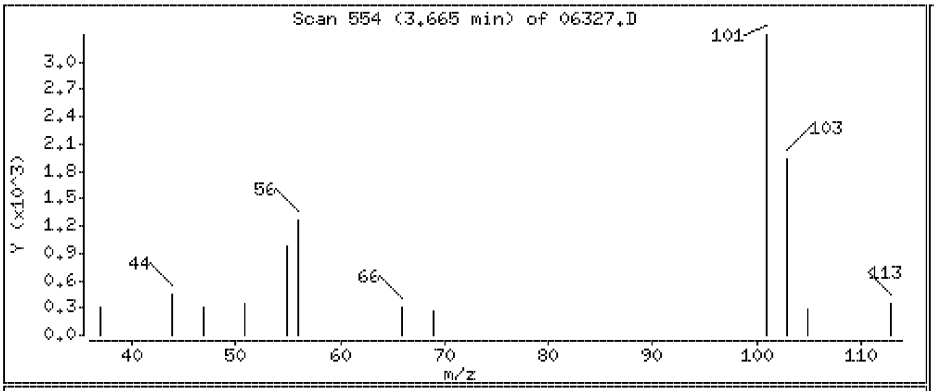
Operator: MJL

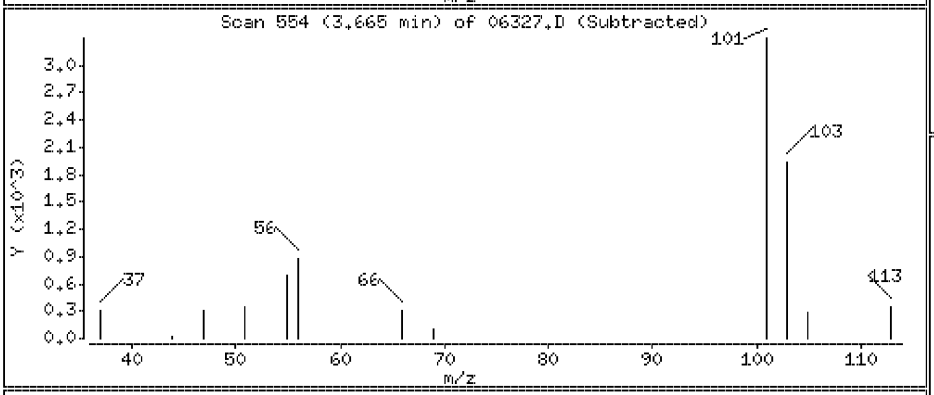
Column phase: J&W DB-5

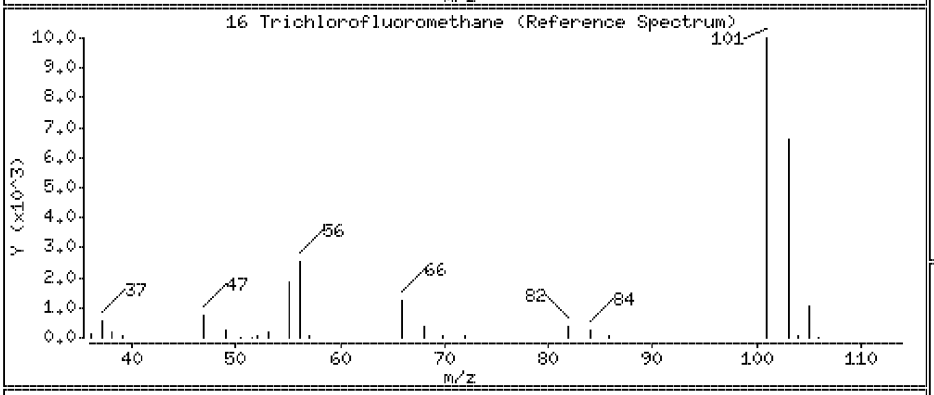
Column diameter: 0.32

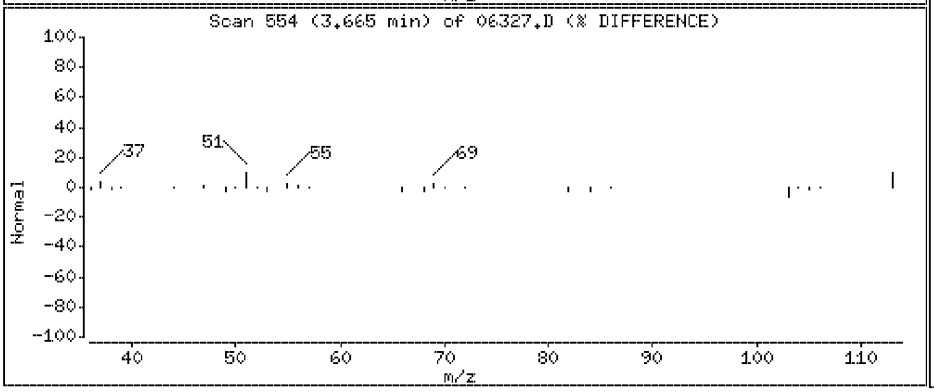
16 Trichlorofluoromethane

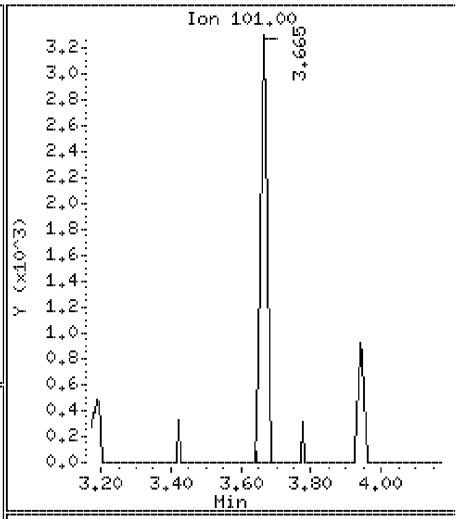
Concentration: 0.236 ppbv

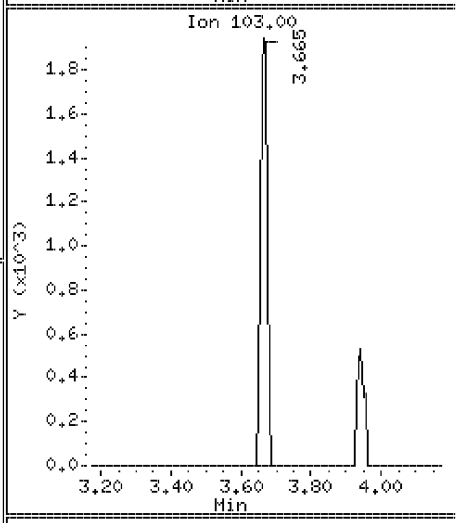


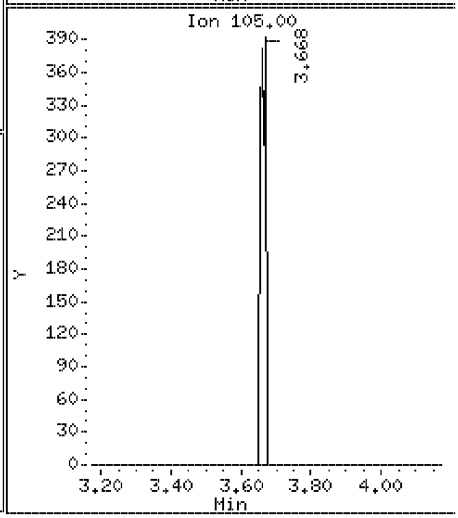












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

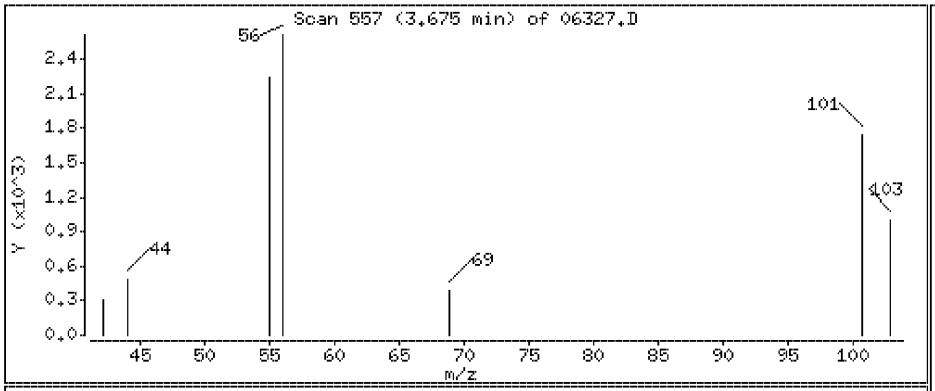
Operator: MJL

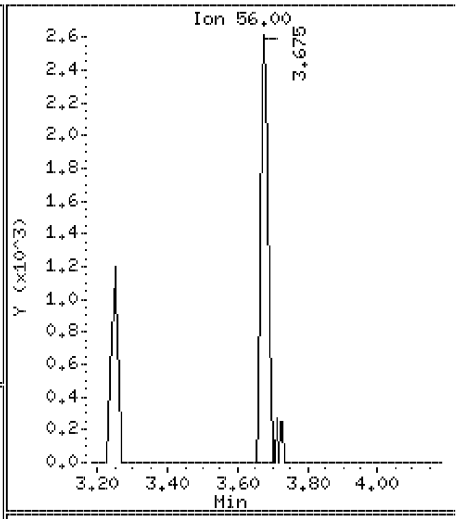
Column phase: J&W DB-5

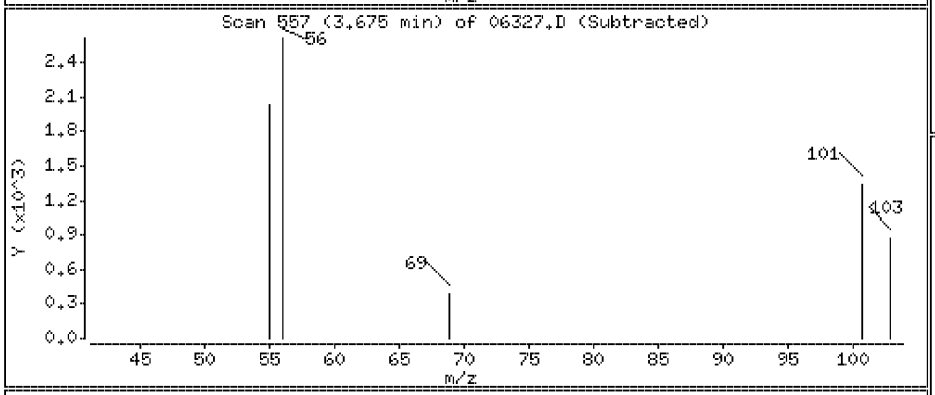
Column diameter: 0.32

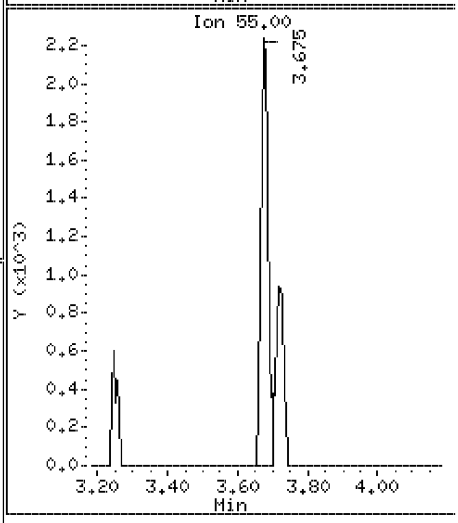
17 Acrolein

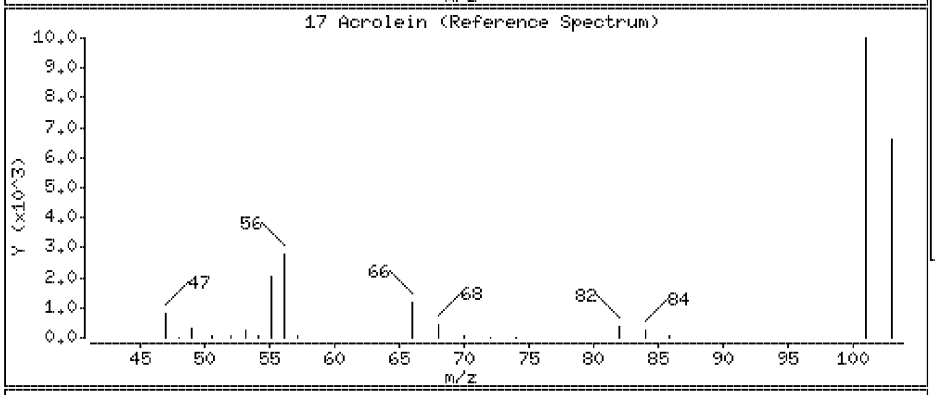
Concentration: 1.87 ppbv

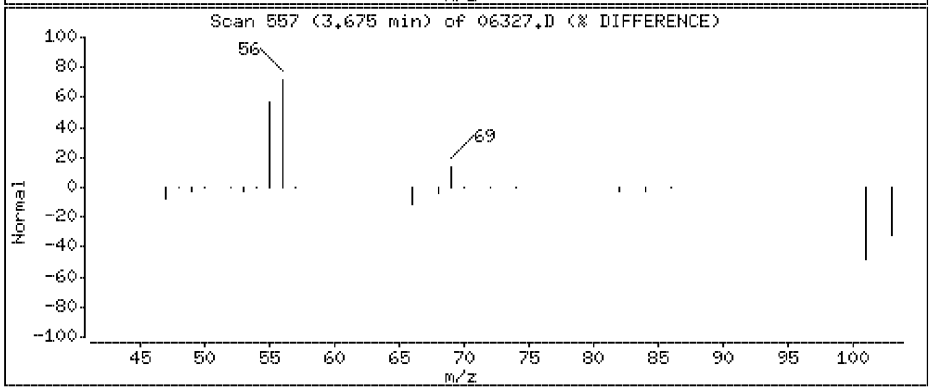












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

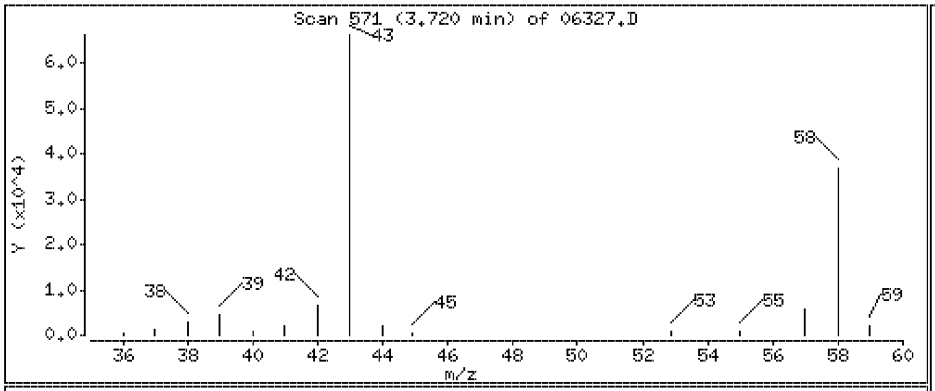
Operator: MJL

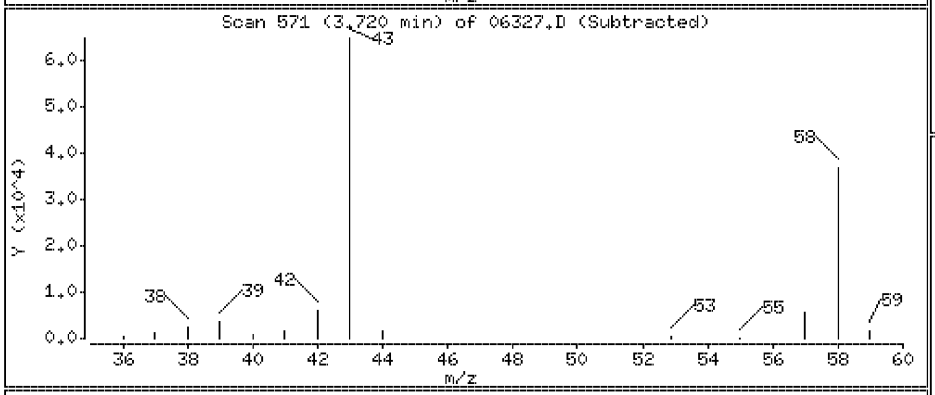
Column phase: J&W DB-5

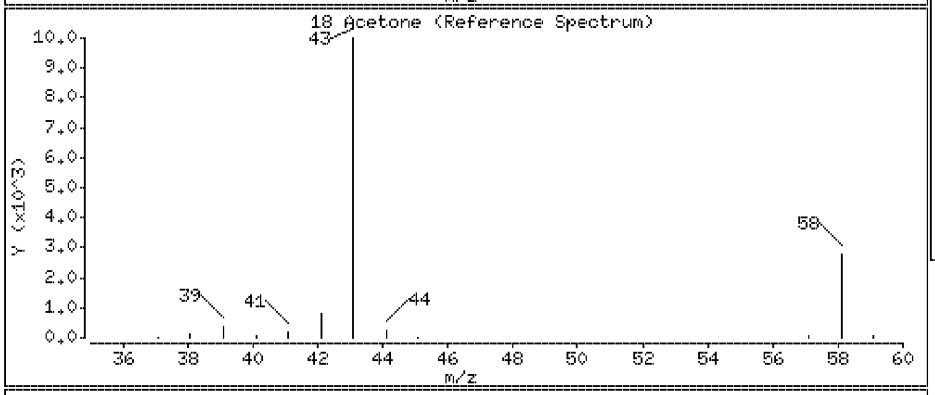
Column diameter: 0.32

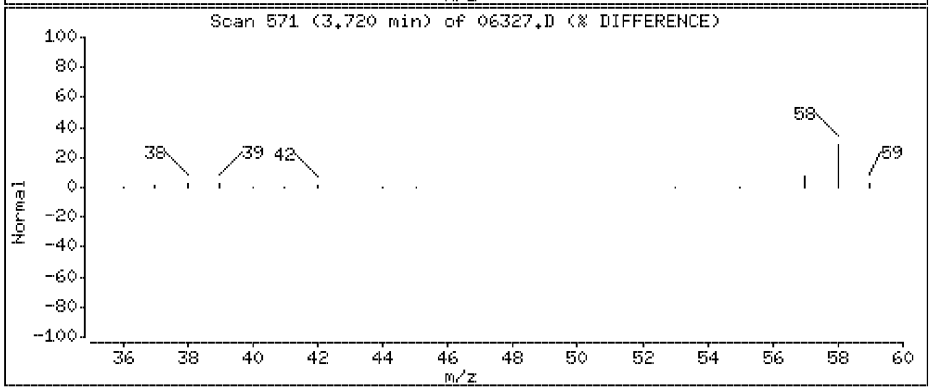
18 Acetone

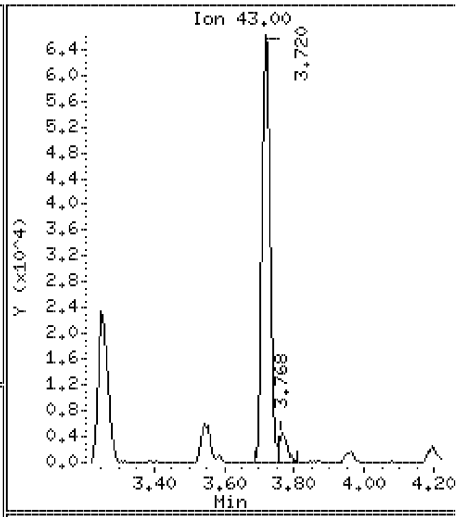
Concentration: 9.94 ppbv

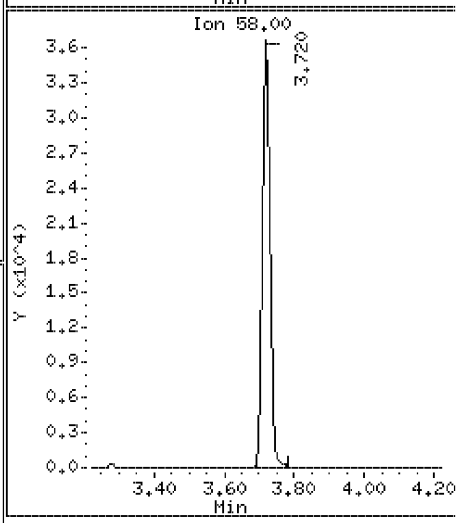












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

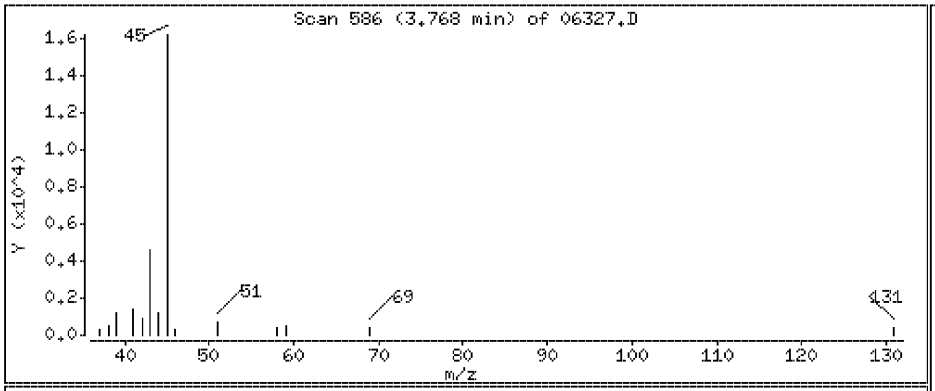
Operator: MJL

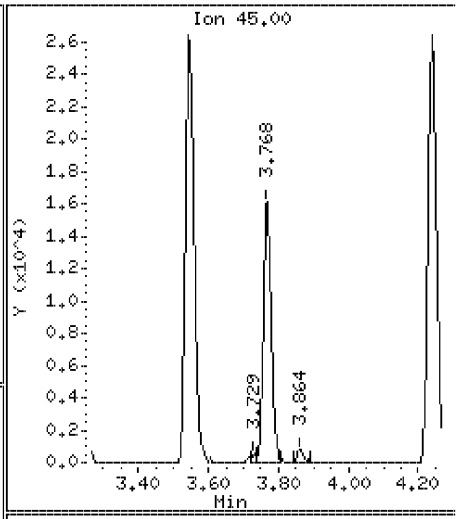
Column phase: J&W DB-5

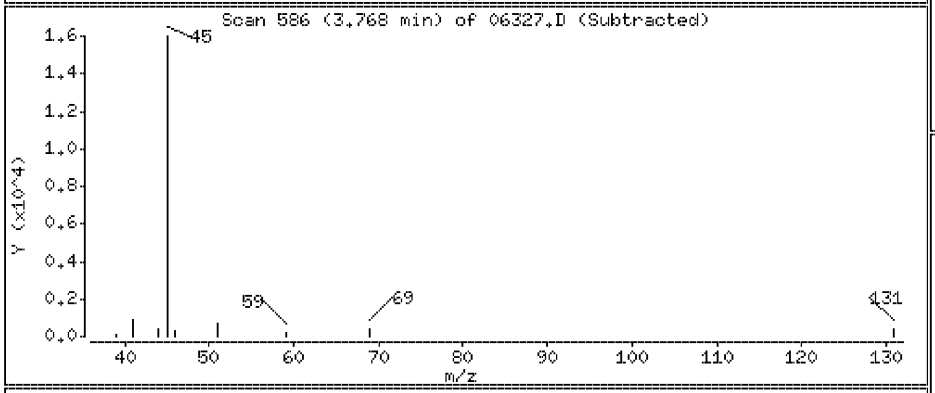
Column diameter: 0.32

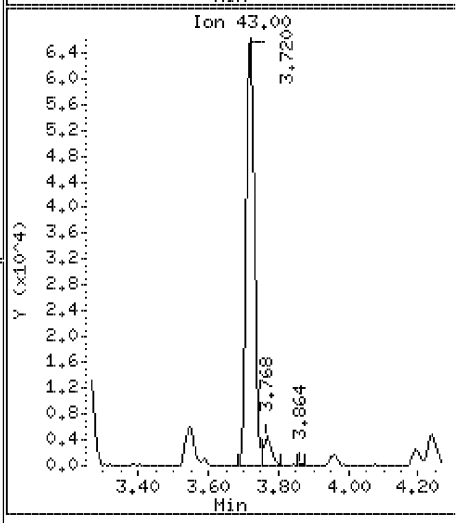
19 Isopropyl Alcohol

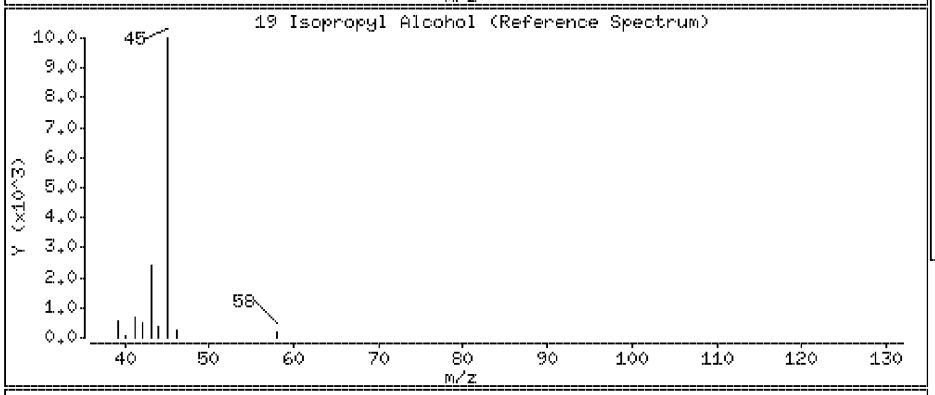
Concentration: 2.31 ppbv

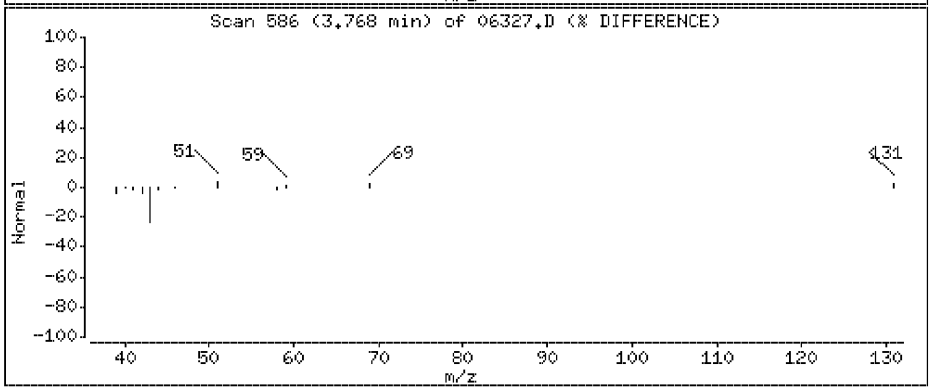












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

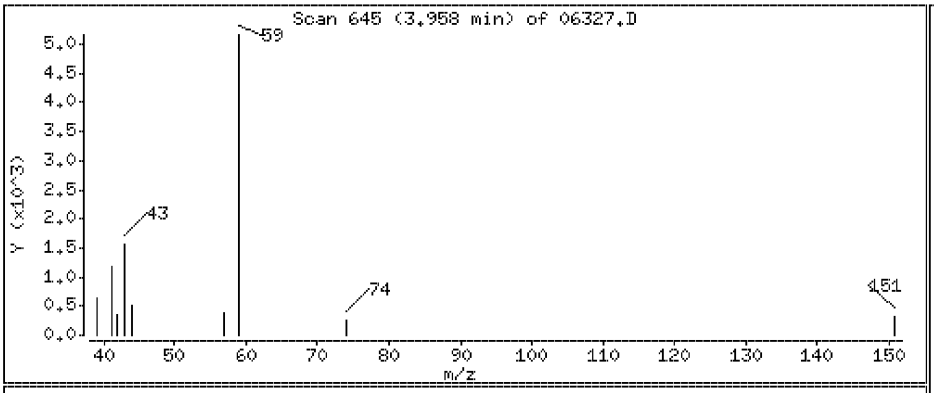
Operator: MJL

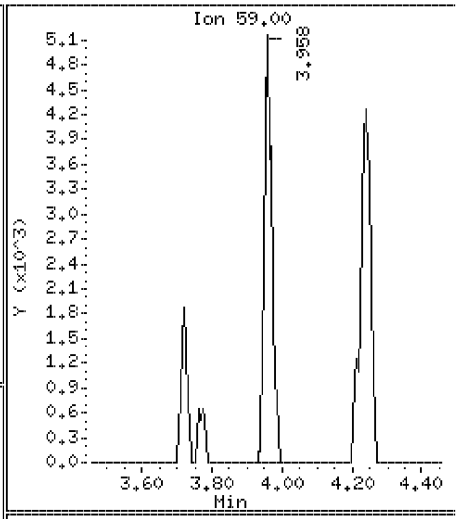
Column phase: J&W DB-5

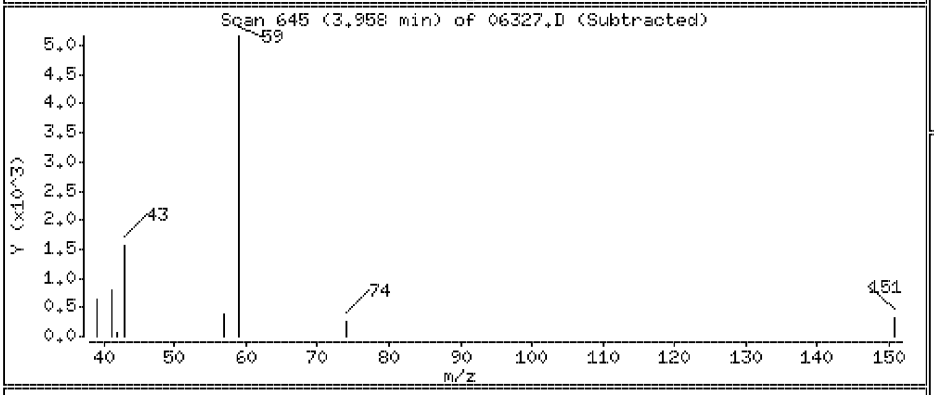
Column diameter: 0.32

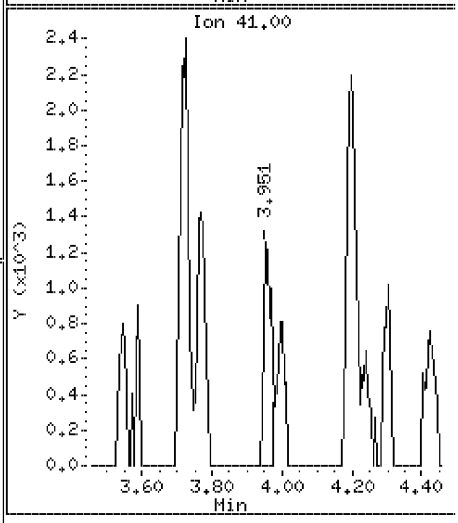
24 Tert Butyl Alcohol (TBA)

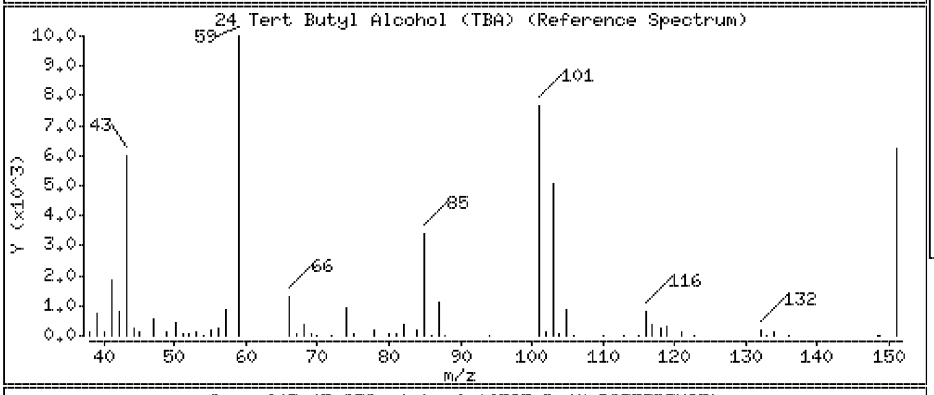
Concentration: 0.568 ppbv

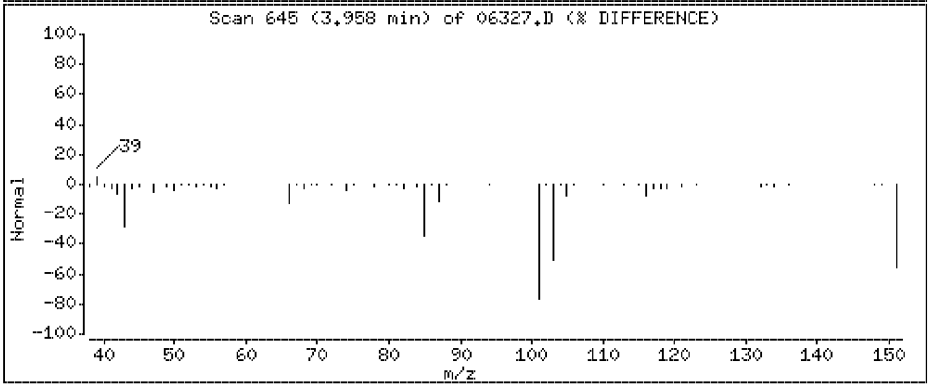












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

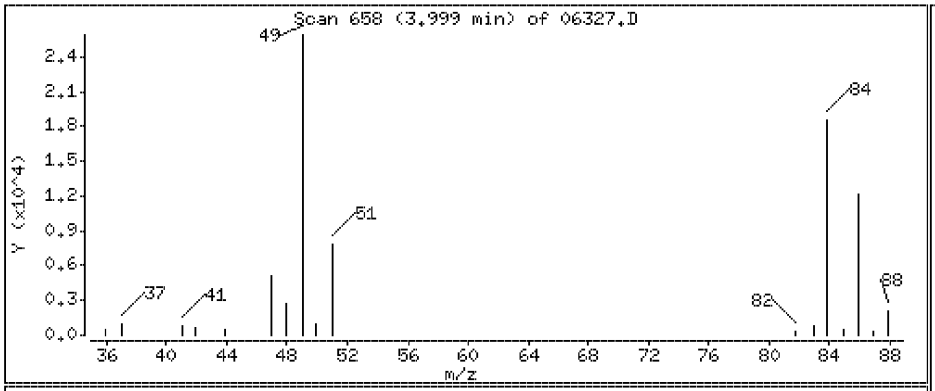
Operator: MJL

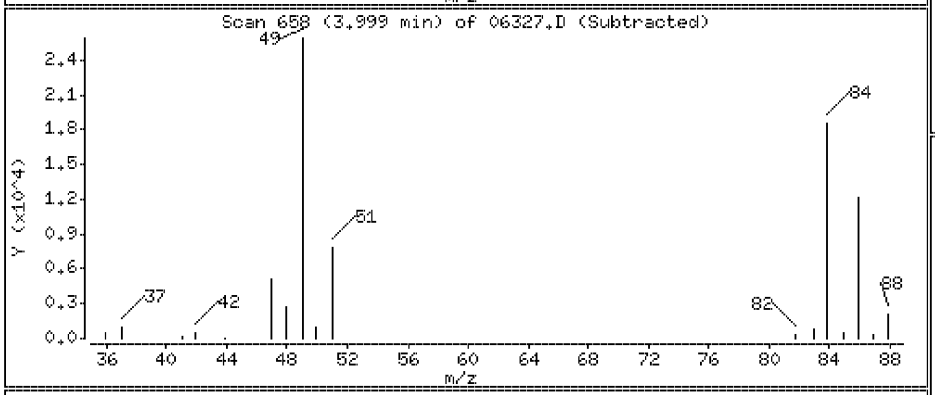
Column phase: J&W DB-5

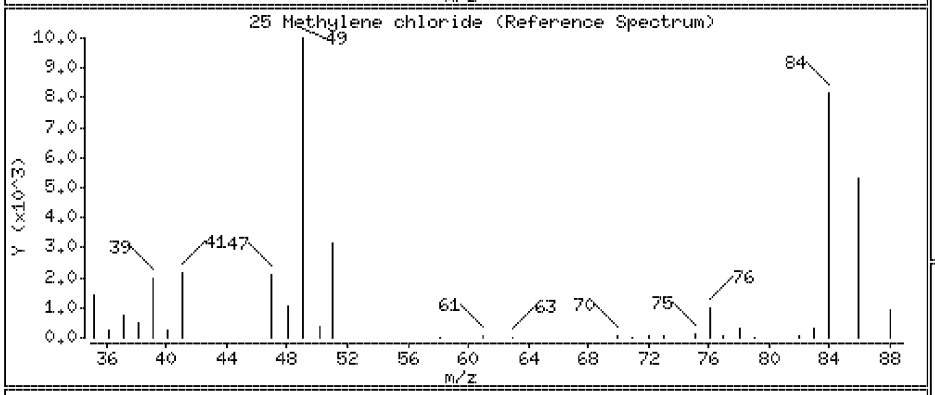
Column diameter: 0.32

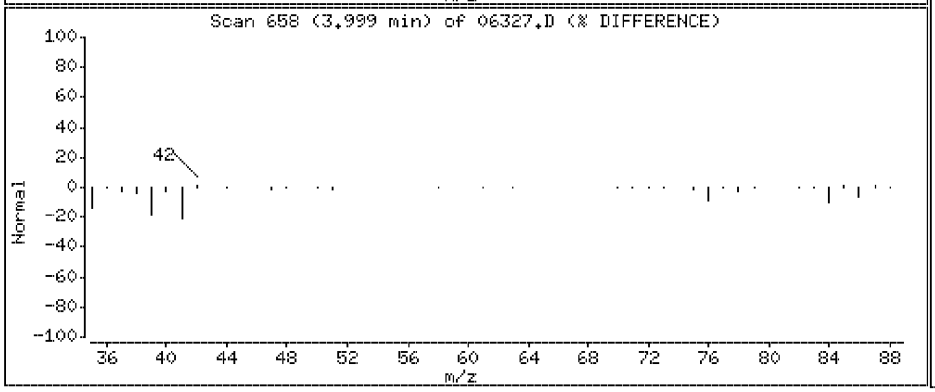
25 Methylene chloride

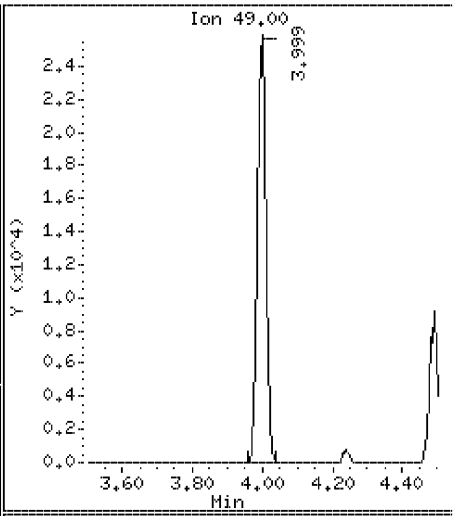
Concentration: 5.84 ppbv

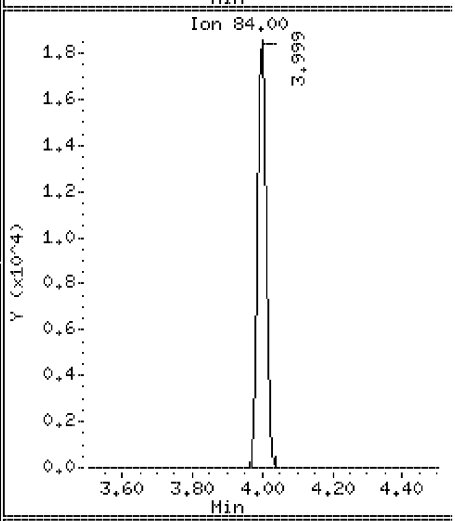


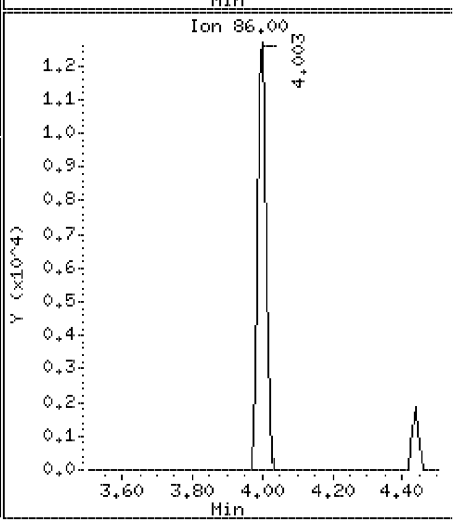












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

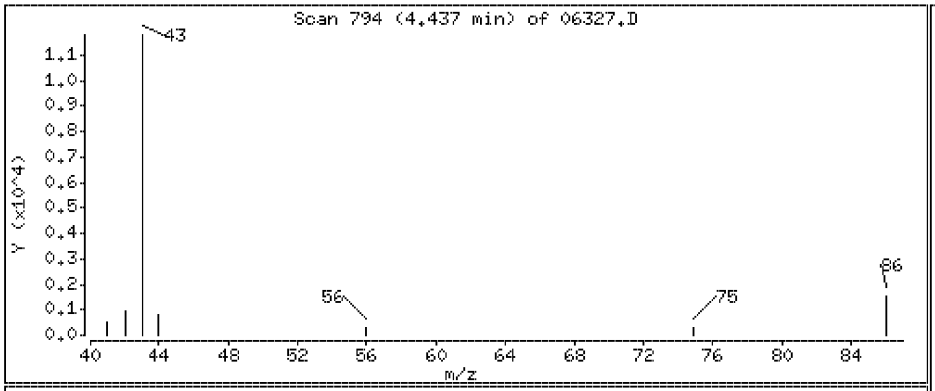
Operator: MJL

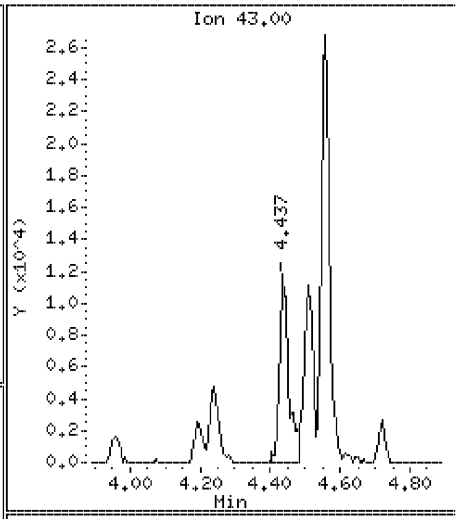
Column phase: J&W DB-5

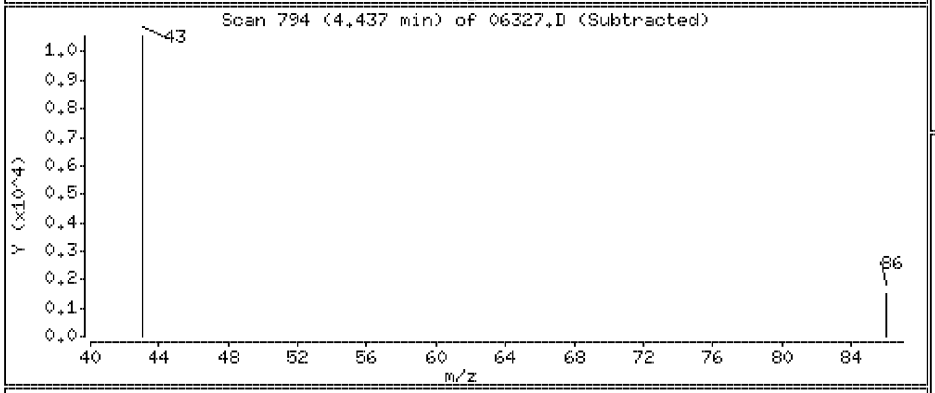
Column diameter: 0.32

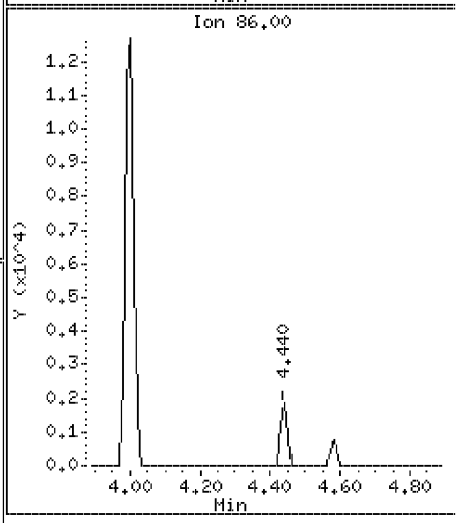
30 Vinyl Acetate

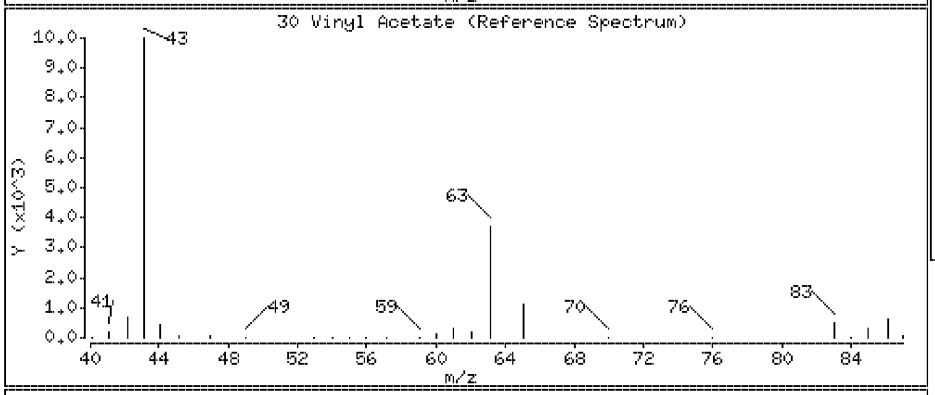
Concentration: 1.50 ppbv

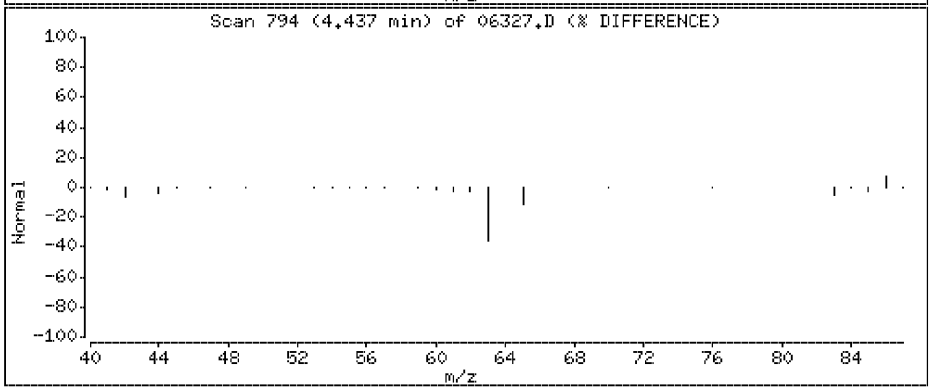












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

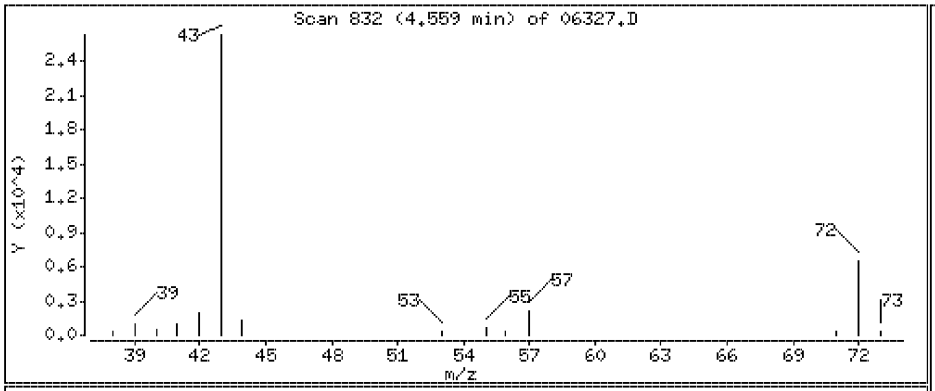
Operator: MJL

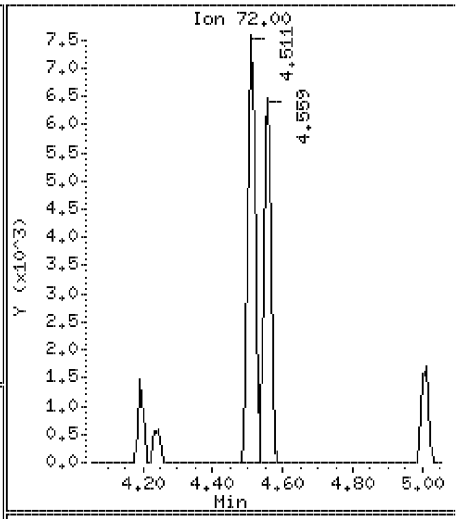
Column phase: J&W DB-5

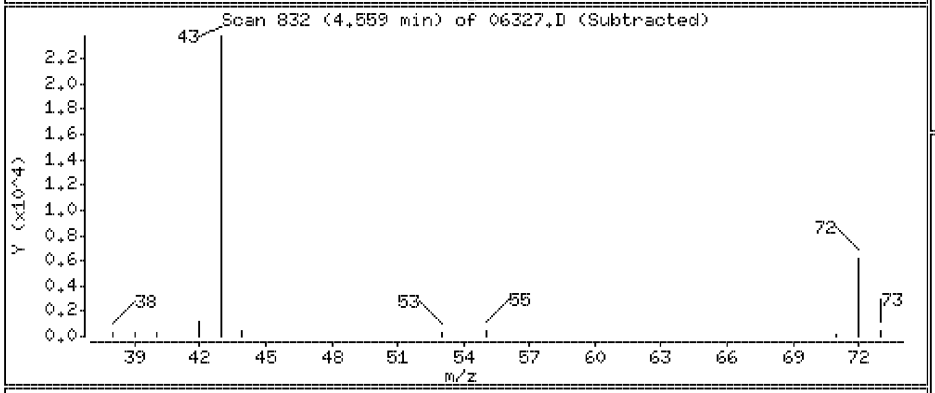
Column diameter: 0.32

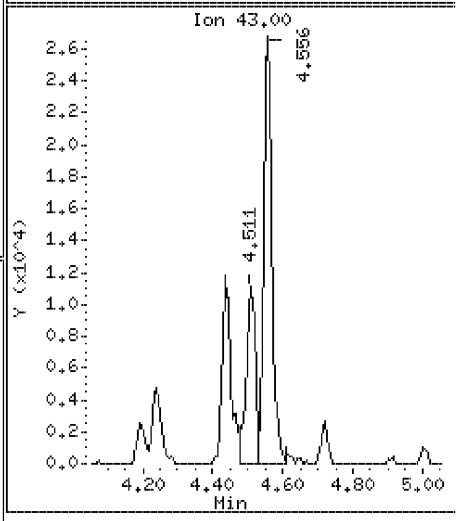
33 Methyl Ethyl Ketone

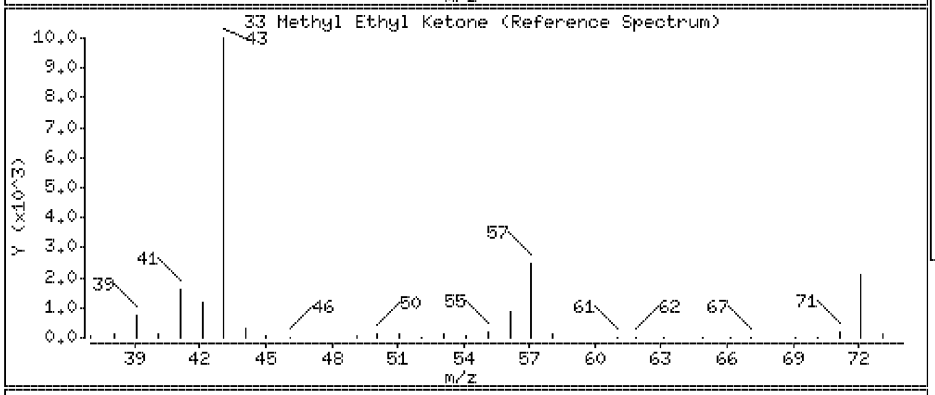
Concentration: 3.06 ppbv

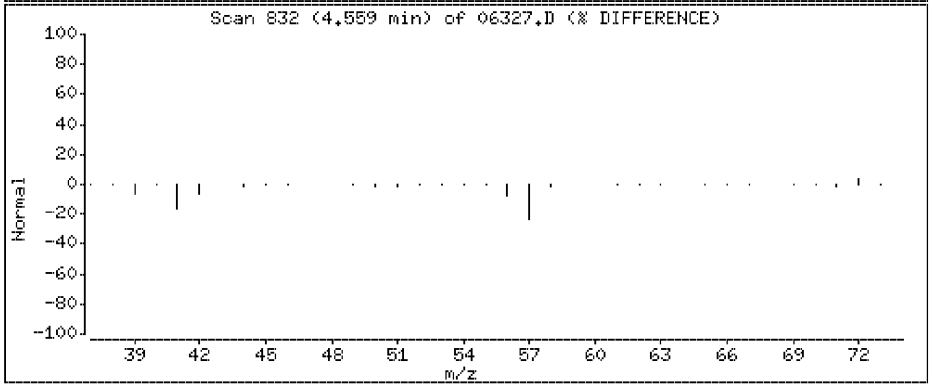












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

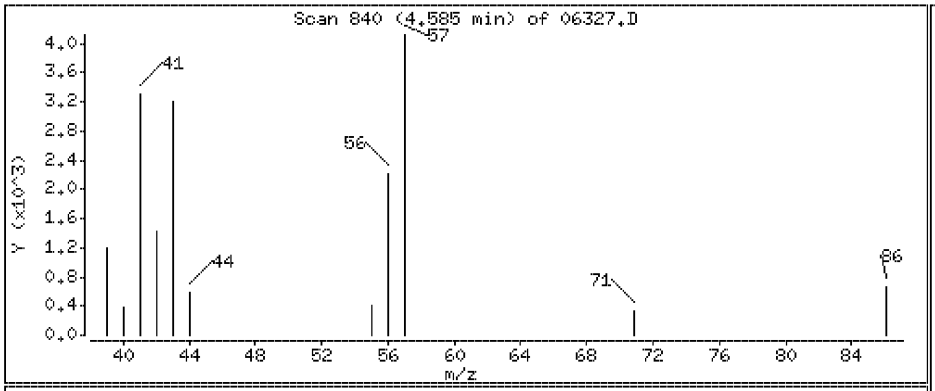
Operator: MJL

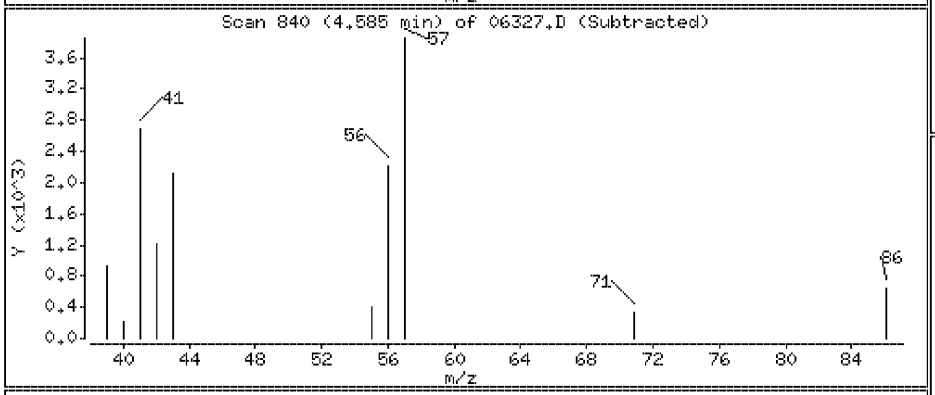
Column phase: J&W DB-5

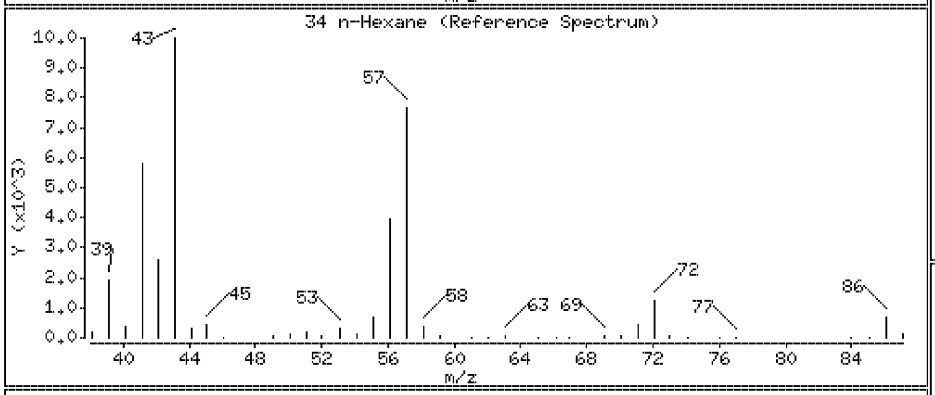
Column diameter: 0.32

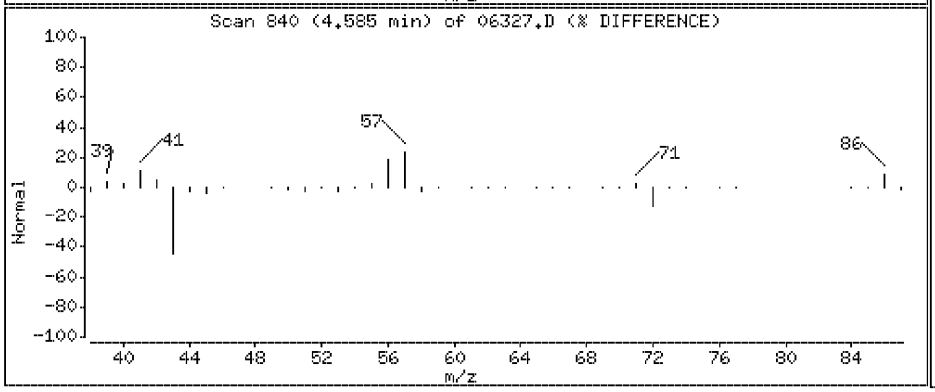
34 n-Hexane

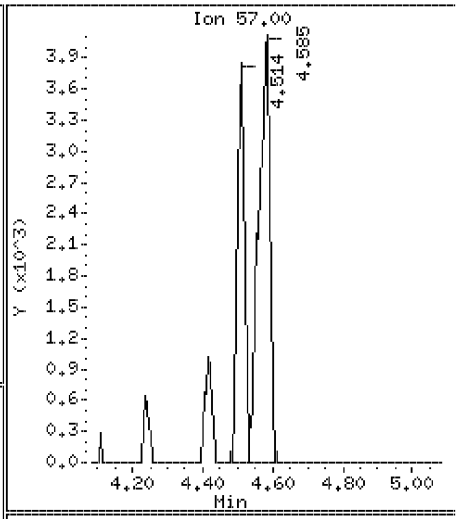
Concentration: 0.894 ppbv

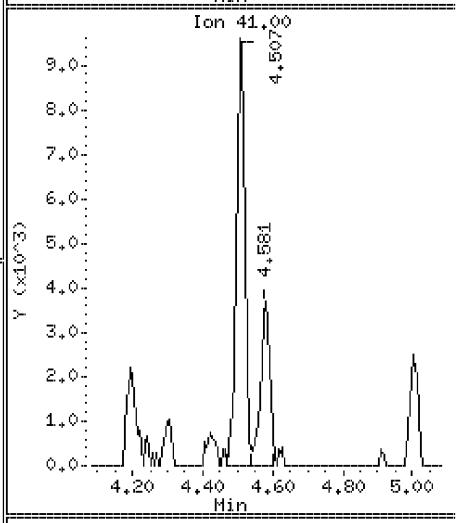


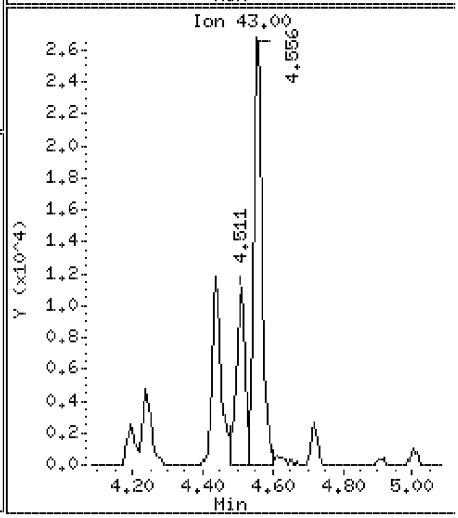












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

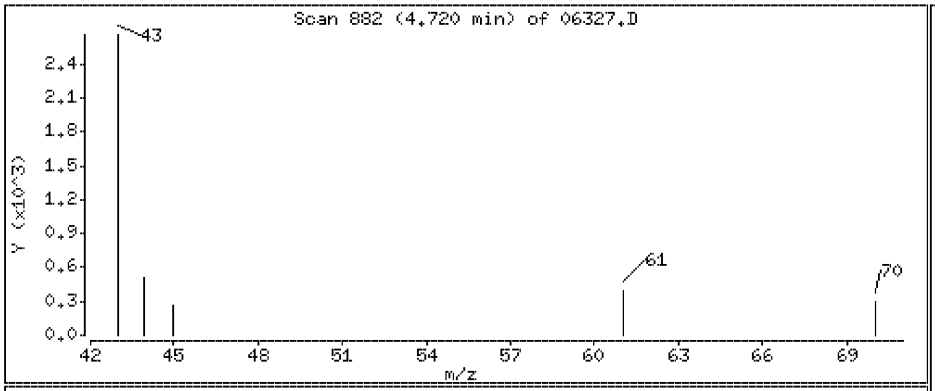
Operator: MJL

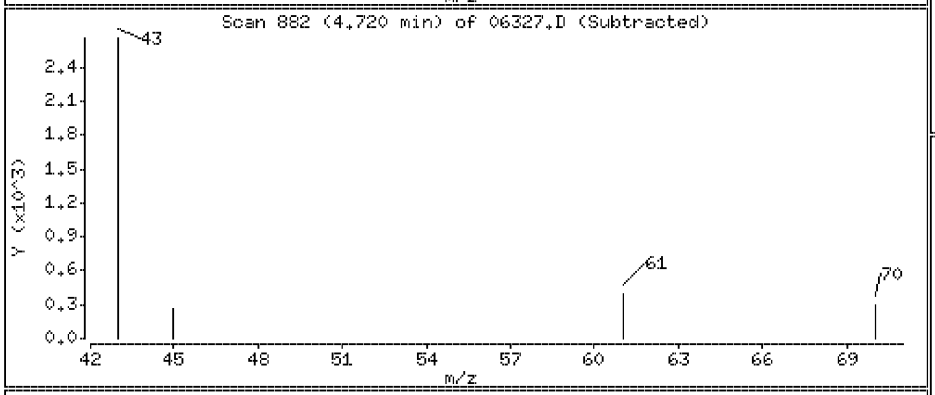
Column phase: J&W DB-5

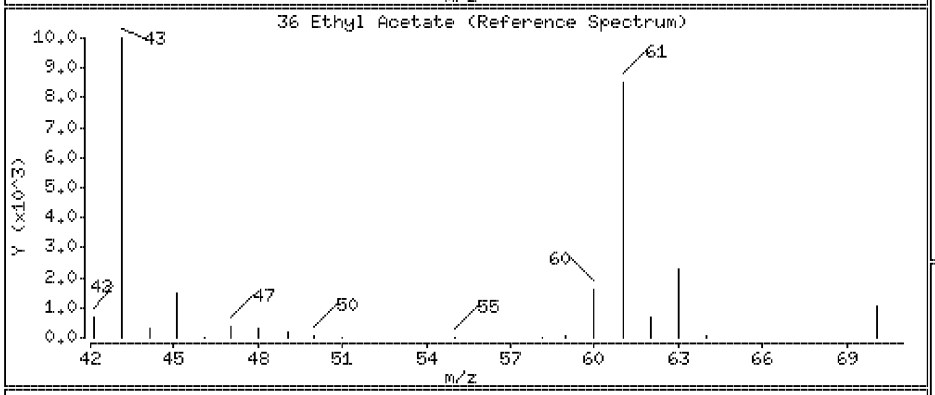
Column diameter: 0.32

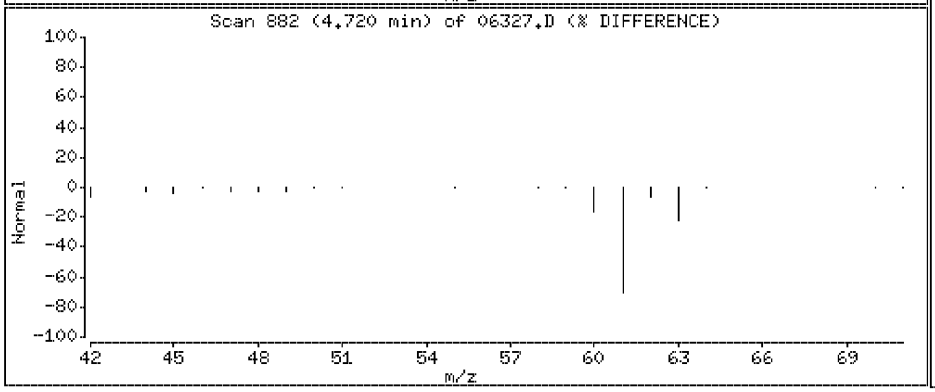
36 Ethyl Acetate

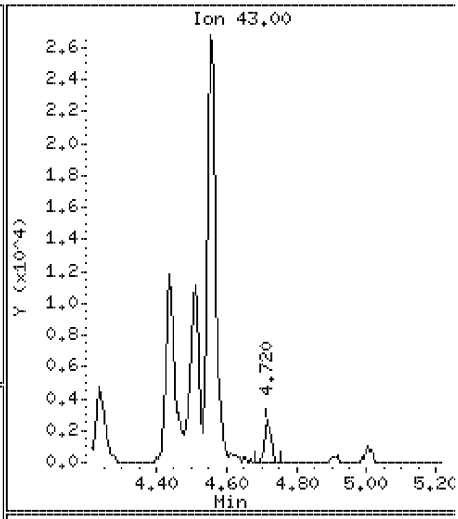
Concentration: 0.240 ppbv

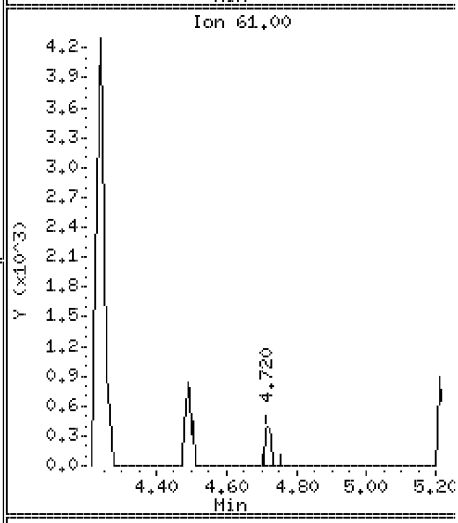


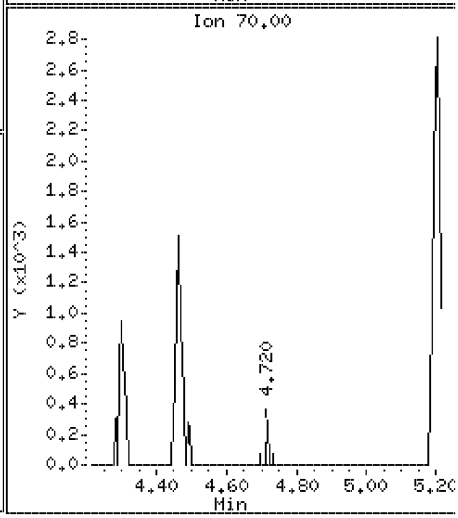












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

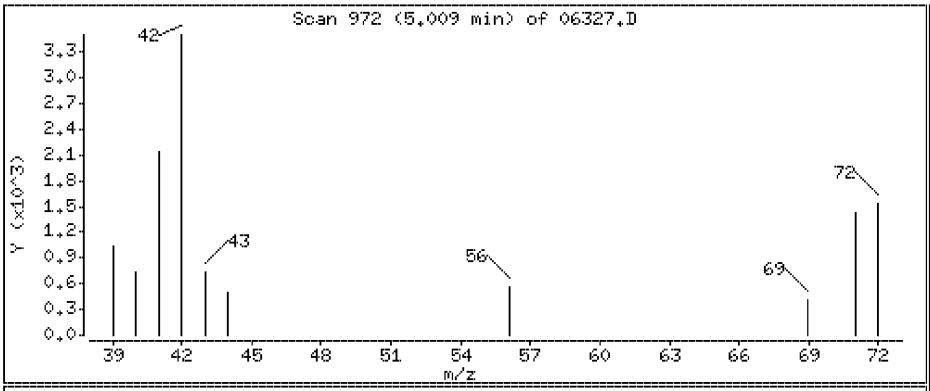
Operator: MJL

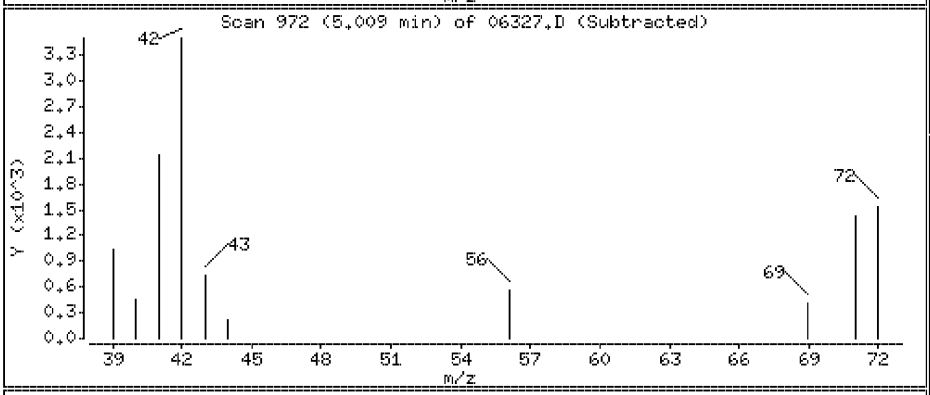
Column phase: J&W DB-5

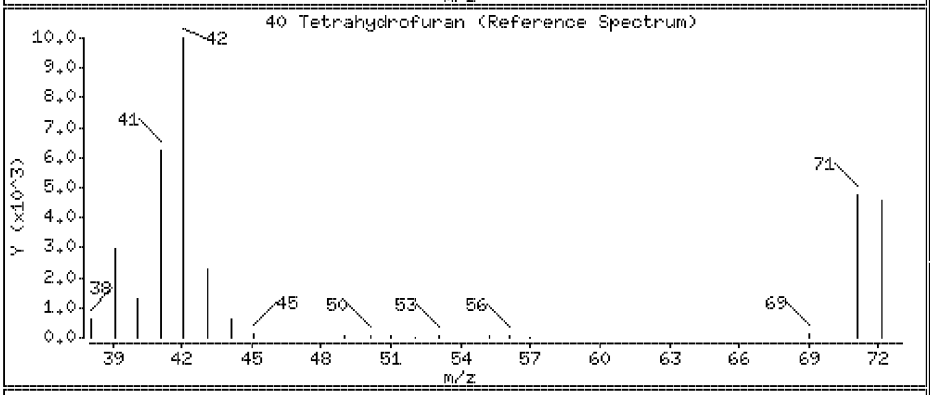
Column diameter: 0.32

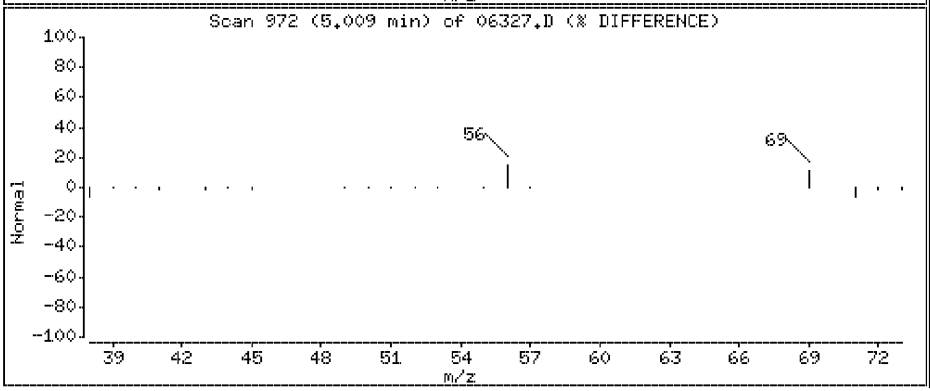
40 Tetrahydrofuran

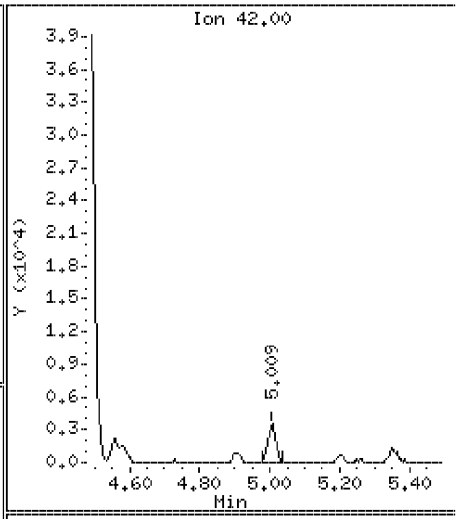
Concentration: 0.737 ppbv

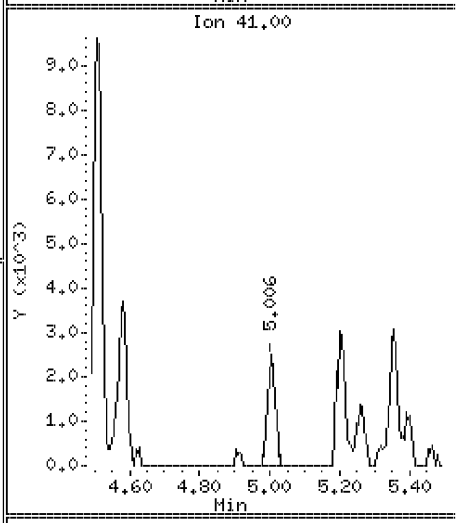


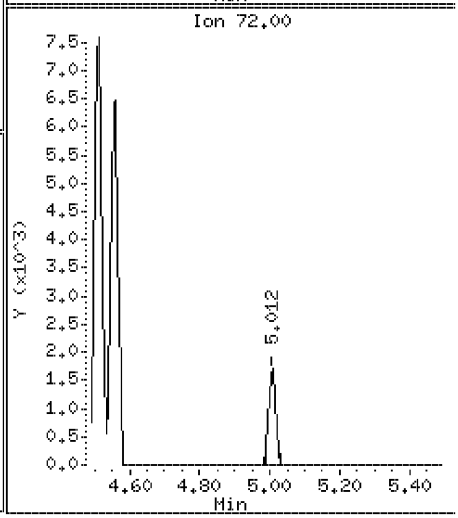












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

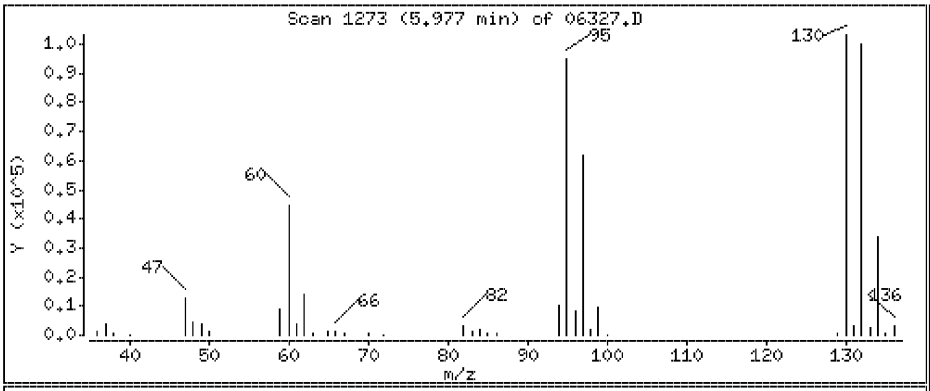
Operator: MJL

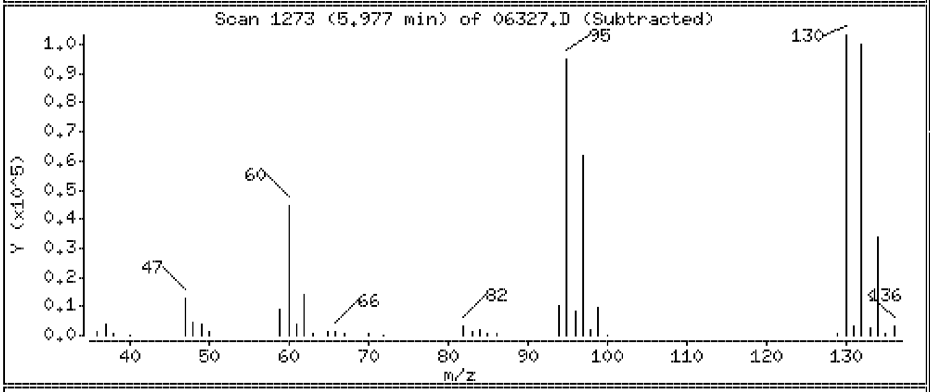
Column phase: J&W DB-5

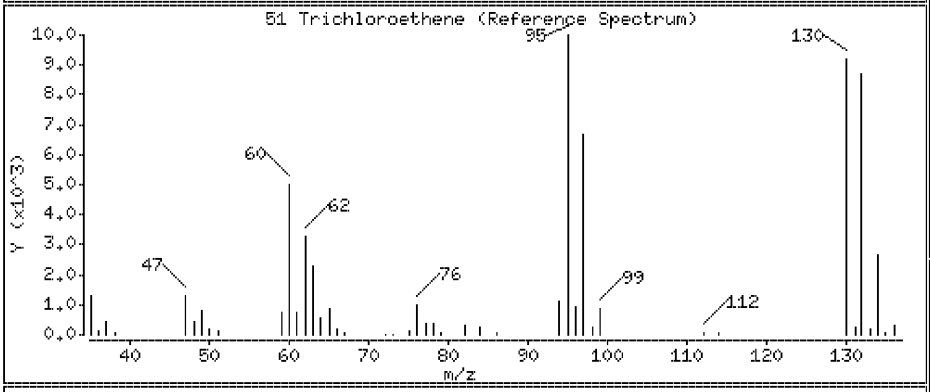
Column diameter: 0.32

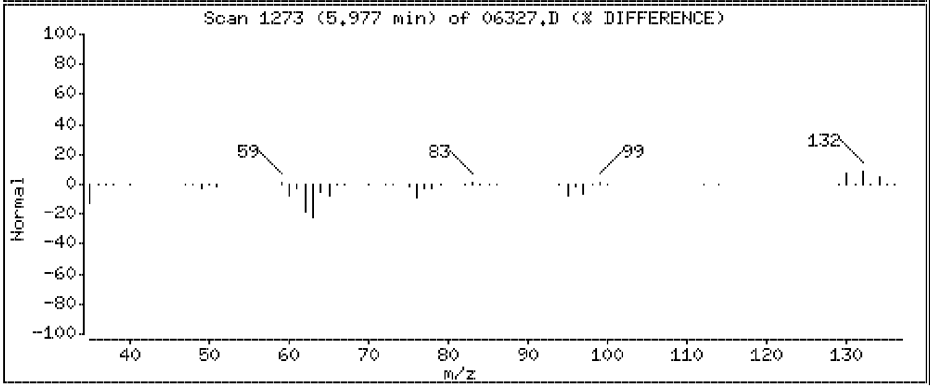
51 Trichloroethene

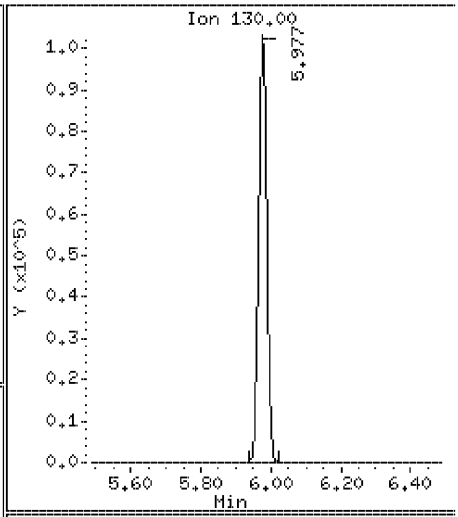
Concentration: 14.8 ppbv

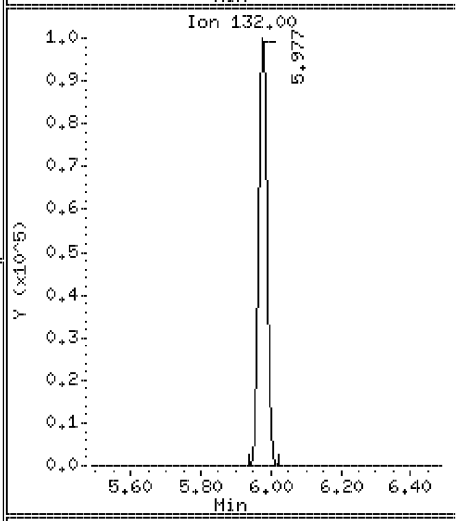


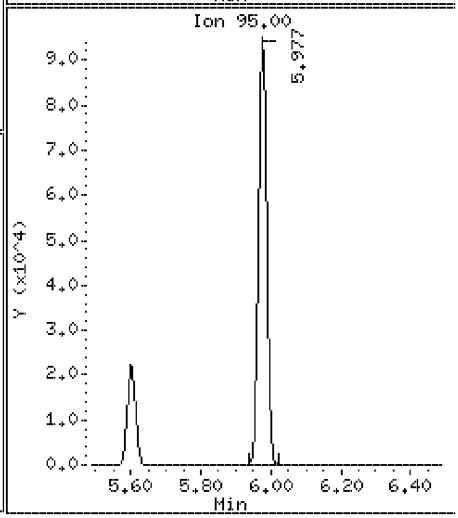












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

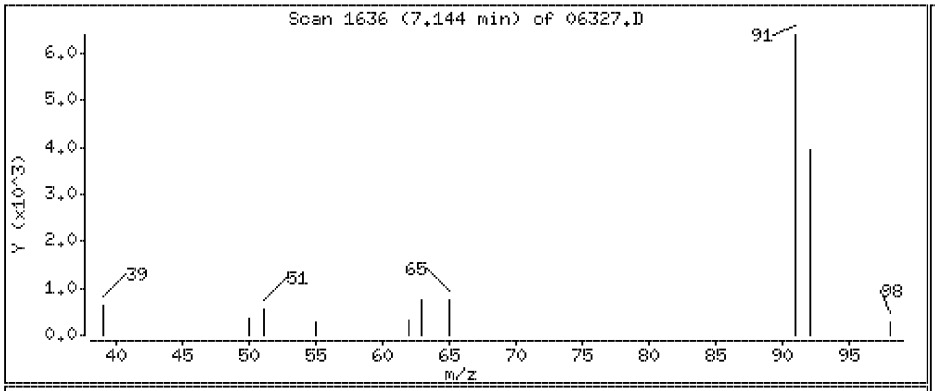
Operator: MJL

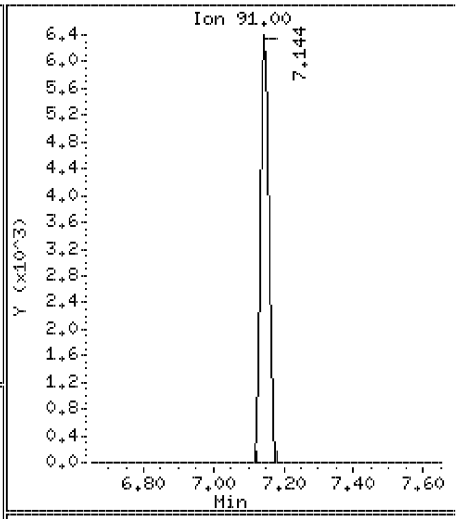
Column phase: J&W DB-5

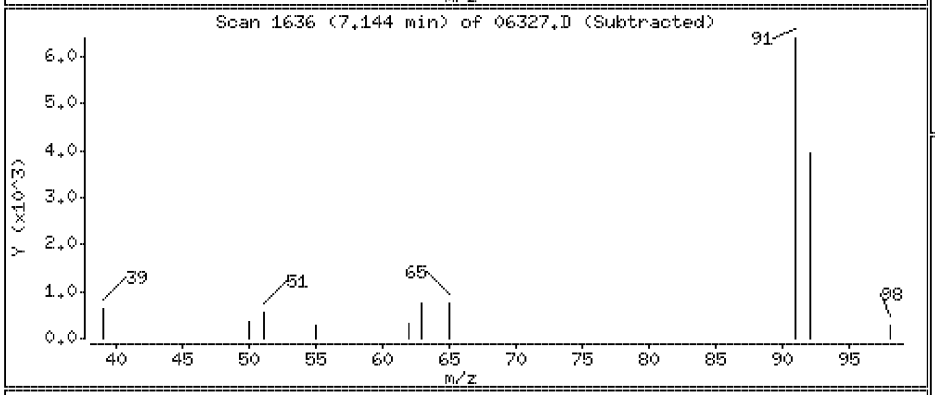
Column diameter: 0.32

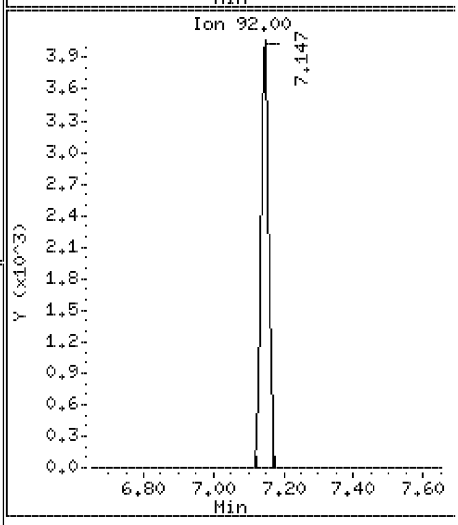
61 Toluene

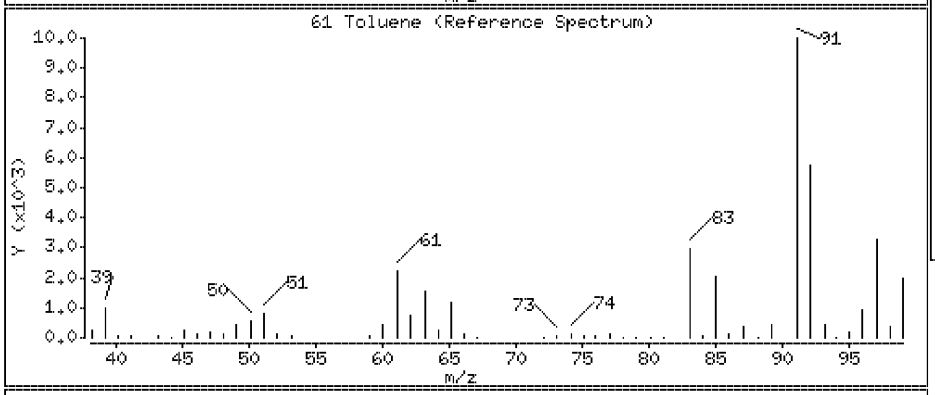
Concentration: 0.379 ppbv

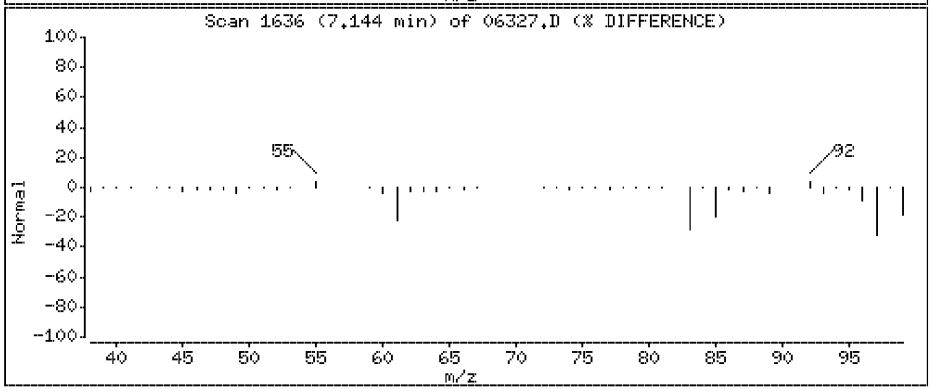












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

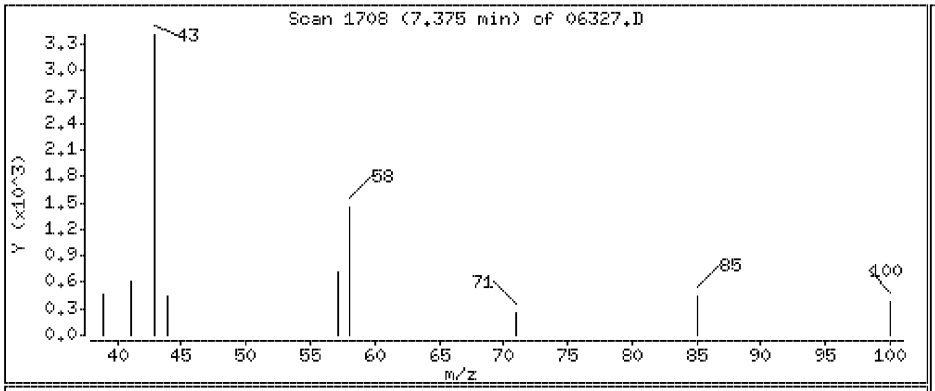
Operator: MJL

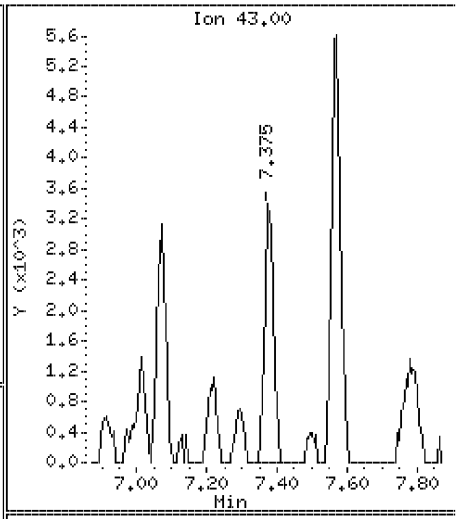
Column phase: J&W DB-5

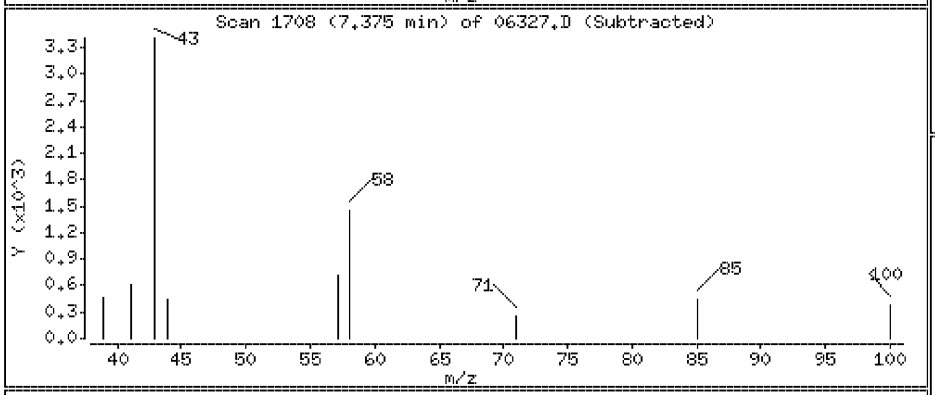
Column diameter: 0.32

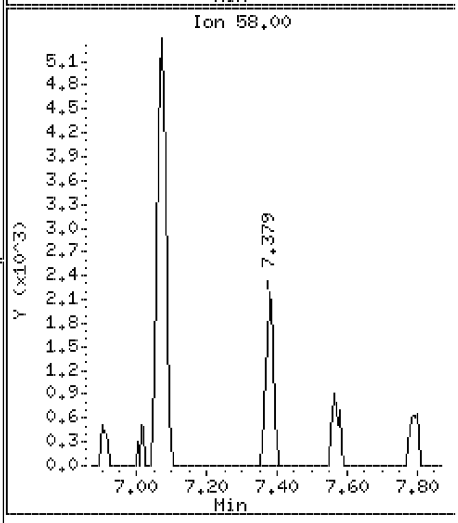
62 Methyl Butyl Ketone

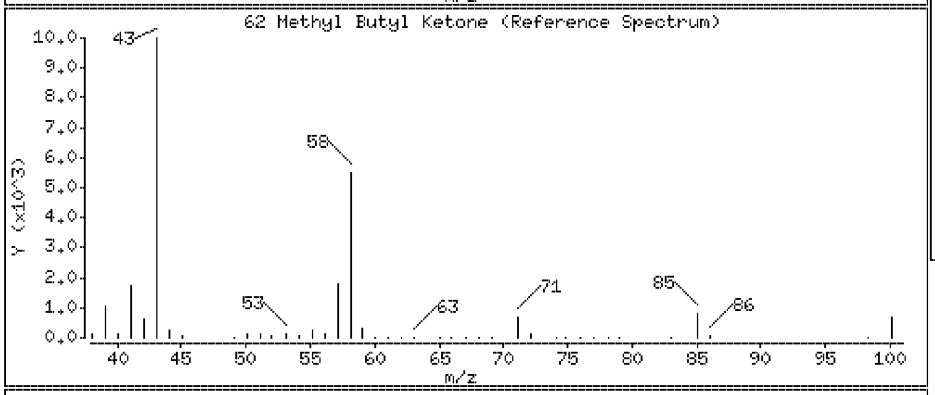
Concentration: 0.410 ppbv

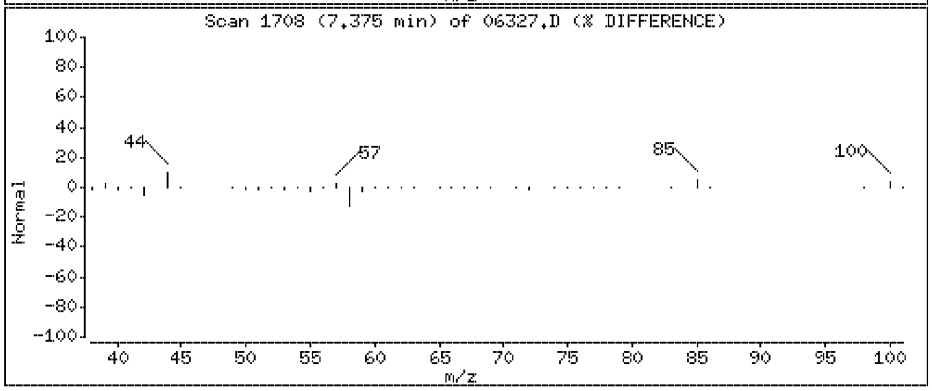












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

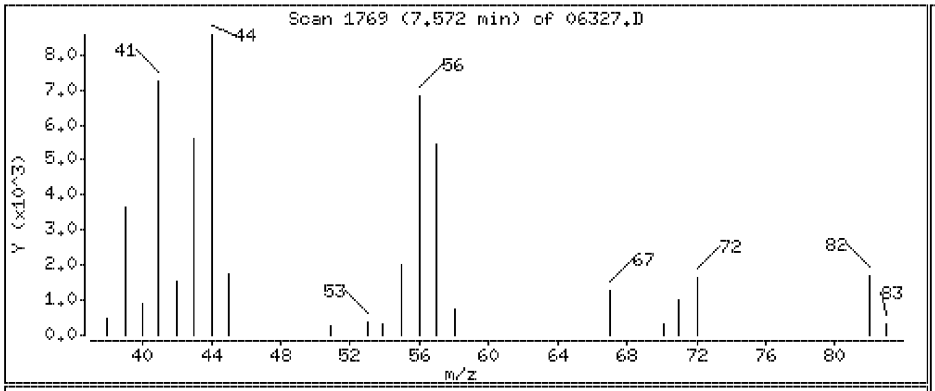
Operator: MJL

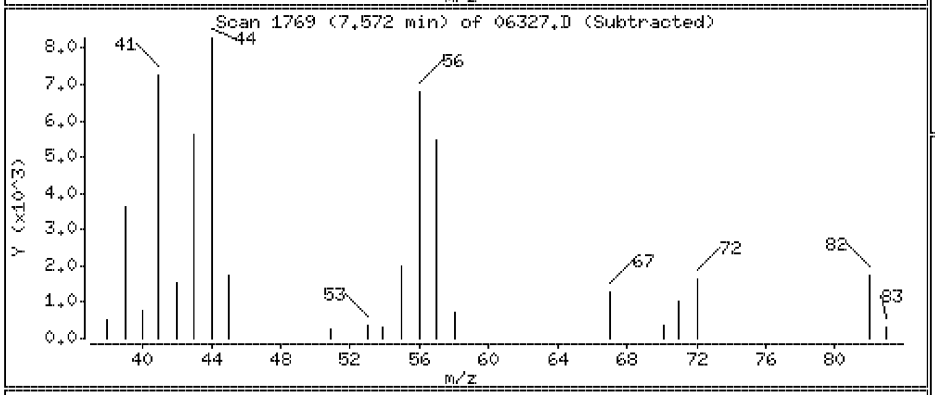
Column phase: J&W DB-5

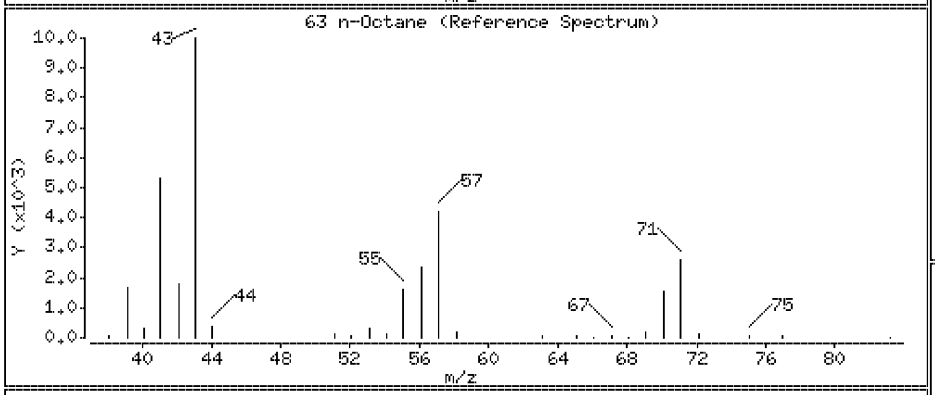
Column diameter: 0.32

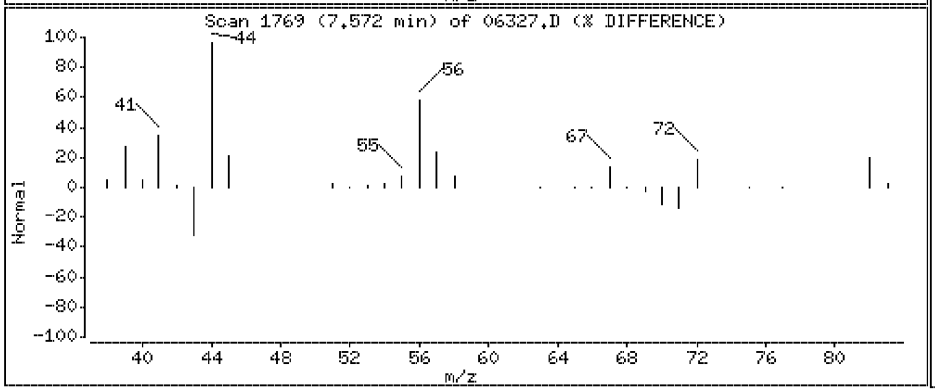
63 n-Octane

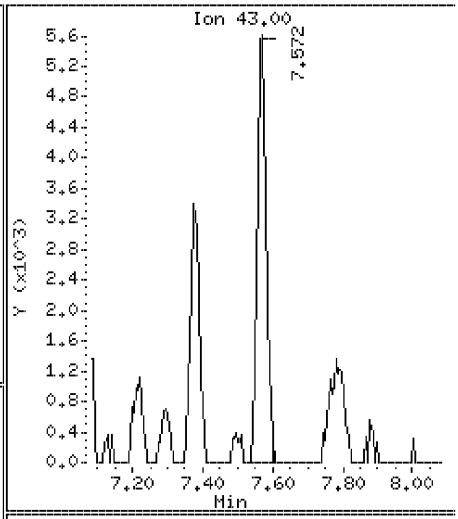
Concentration: 0.626 ppbv

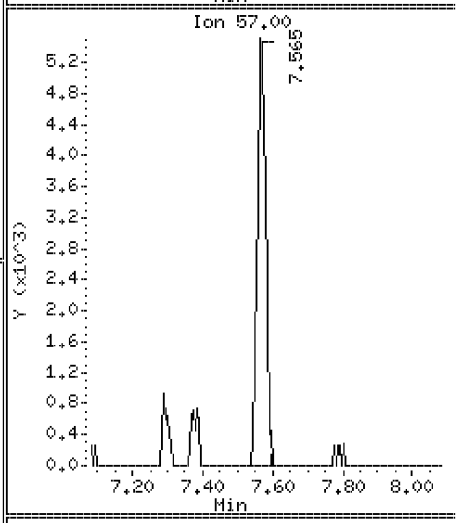


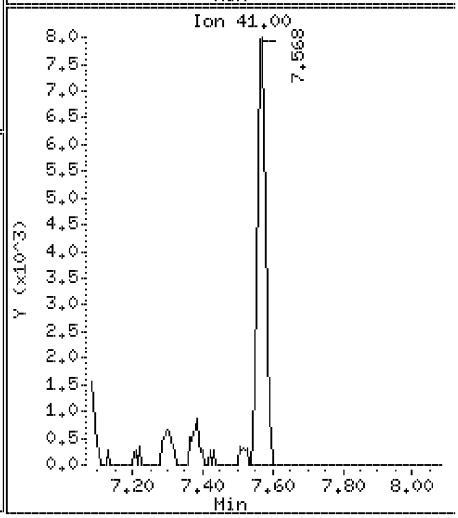












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

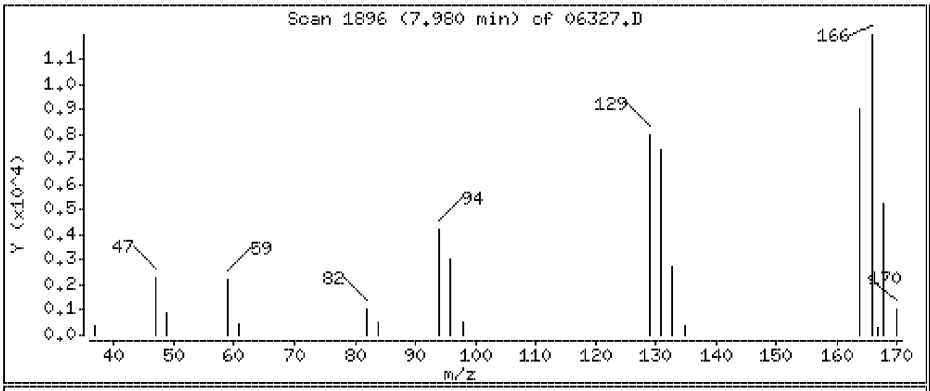
Operator: MJL

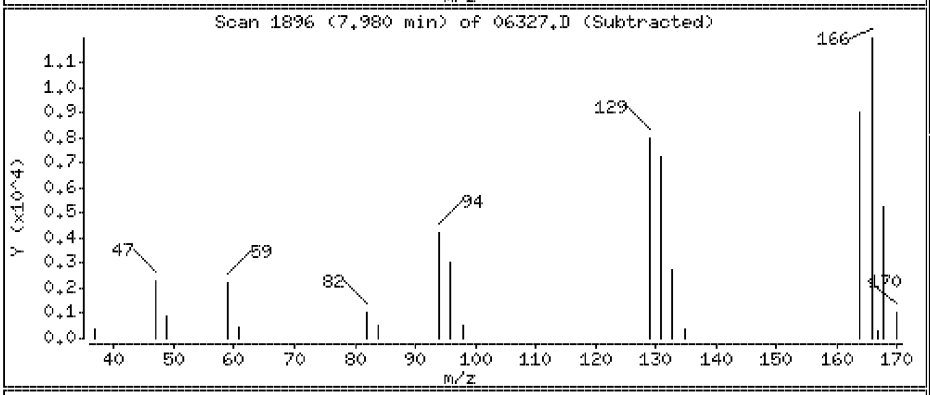
Column phase: J&W DB-5

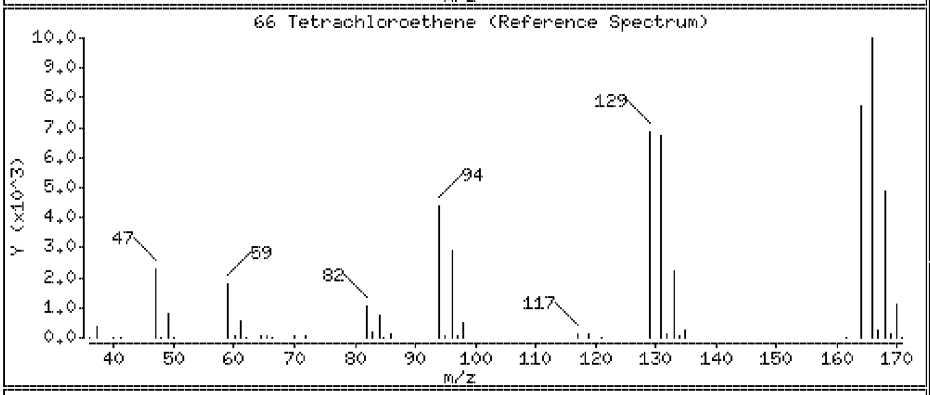
Column diameter: 0.32

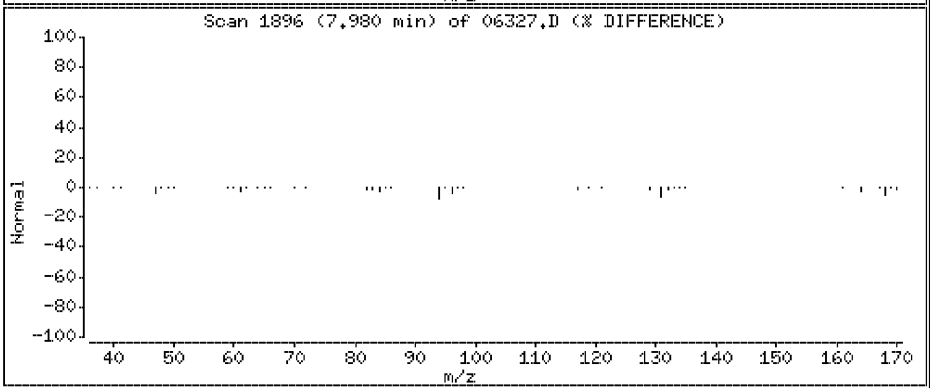
66 Tetrachloroethene

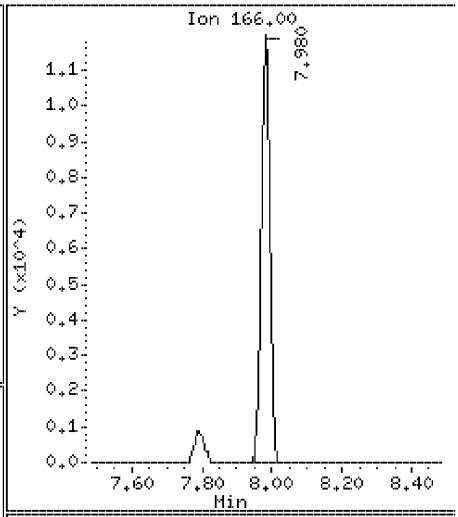
Concentration: 1.30 ppbv

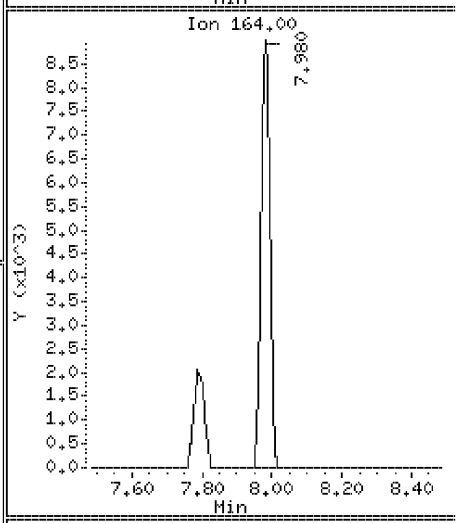


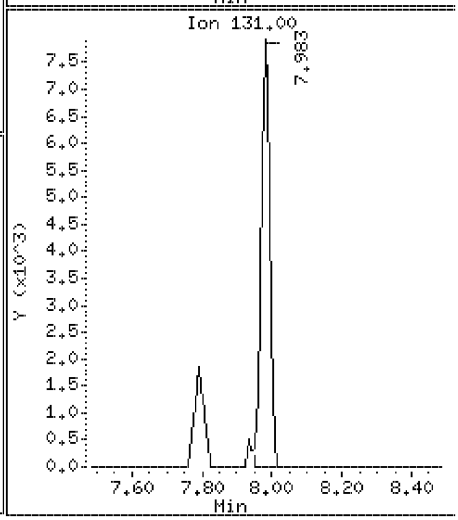












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

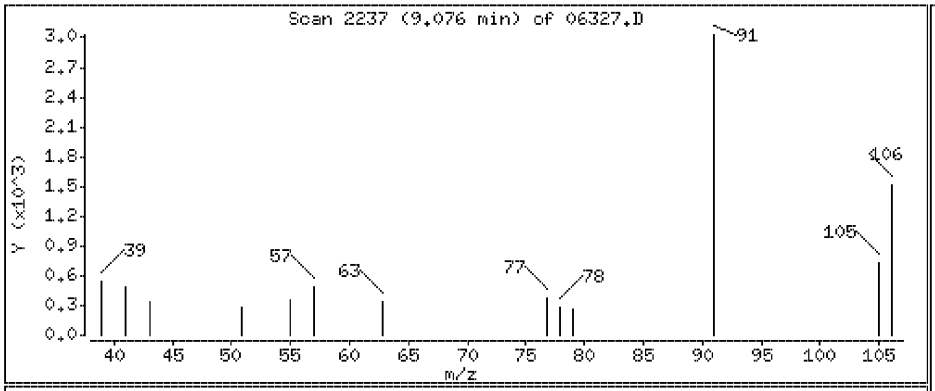
Operator: MJL

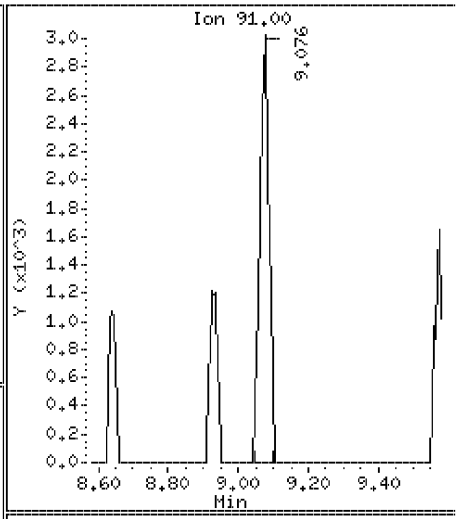
Column phase: J&W DB-5

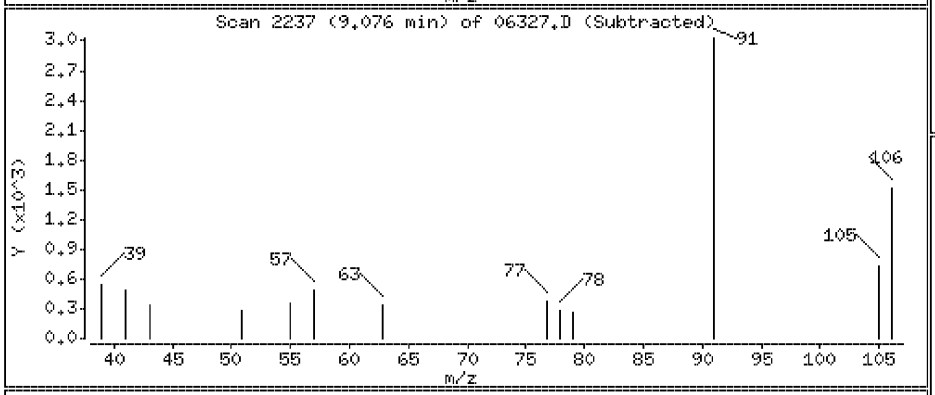
Column diameter: 0.32

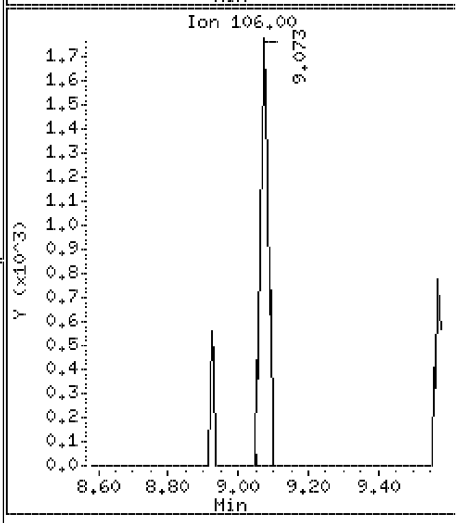
70 m&p-Xylene

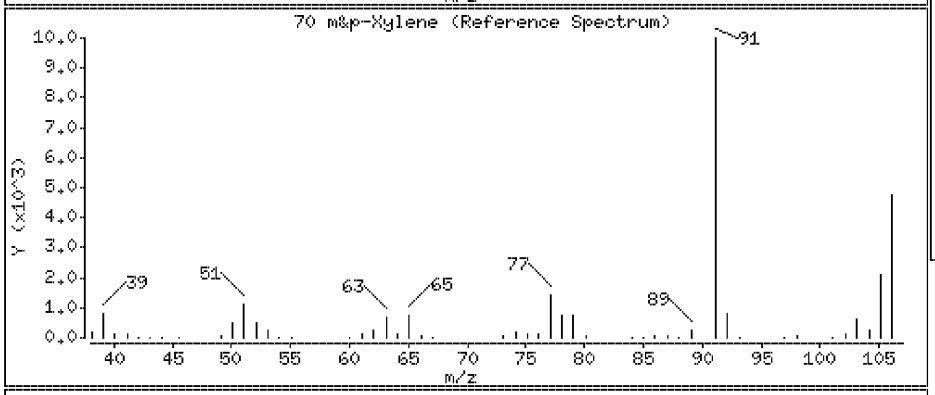
Concentration: 0.213 ppbv

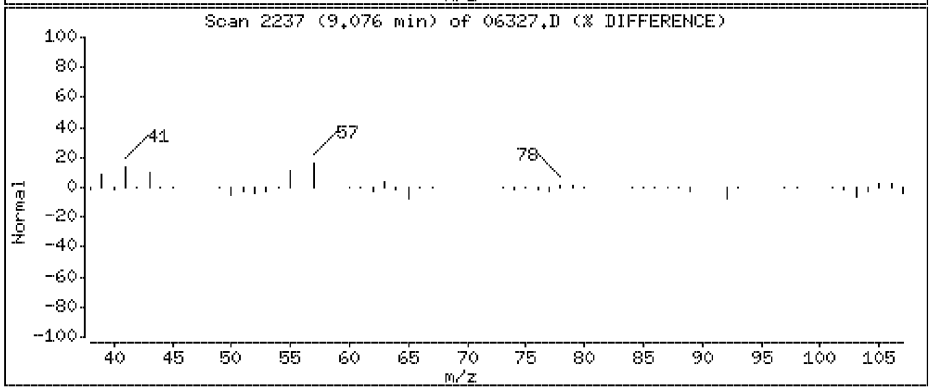












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

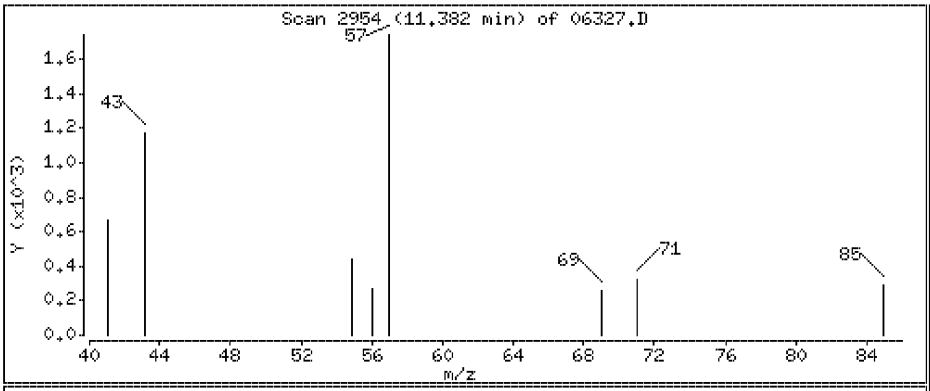
Operator: MJL

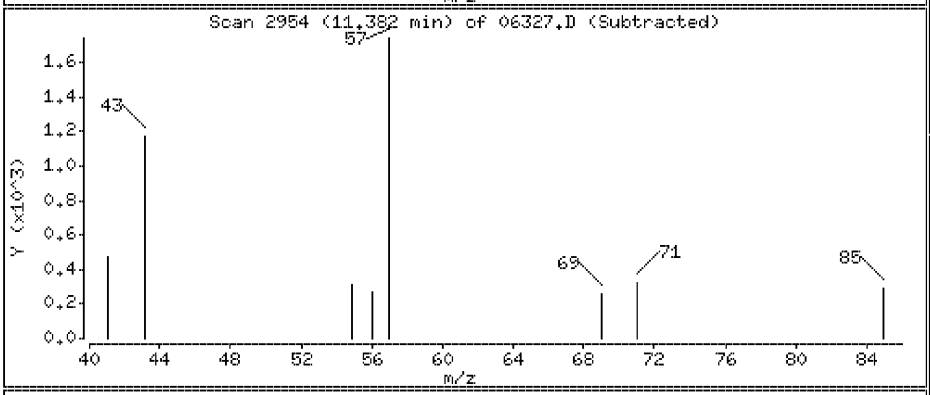
Column phase: J&W DB-5

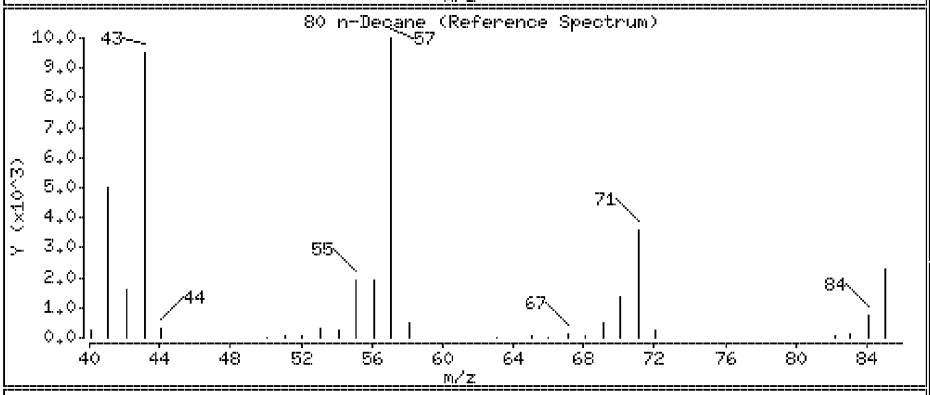
Column diameter: 0.32

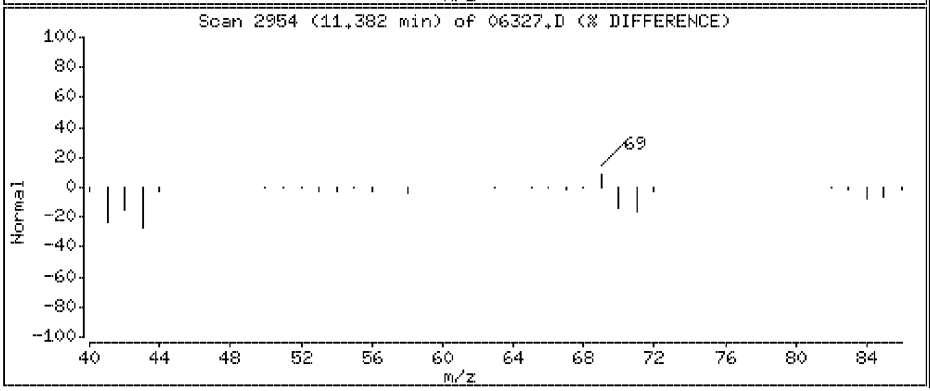
80 n-Decane

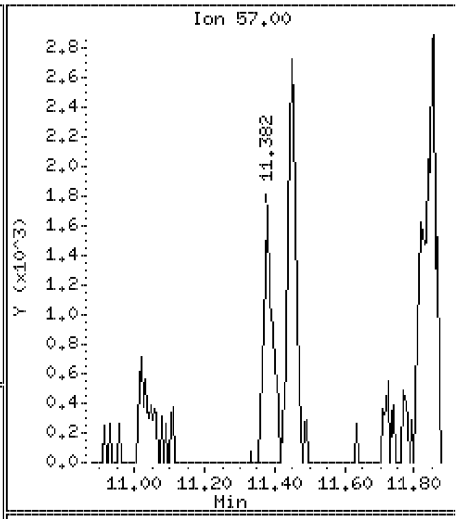
Concentration: 0.624 ppbv

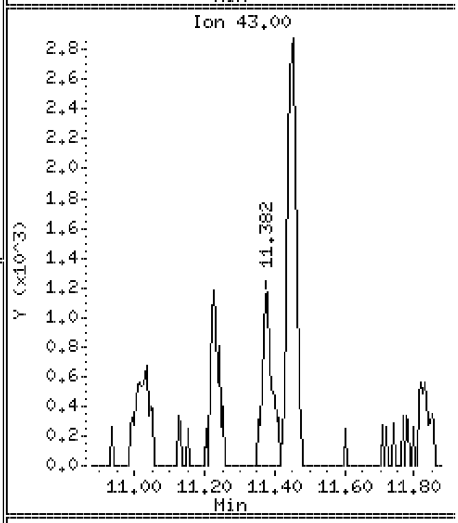


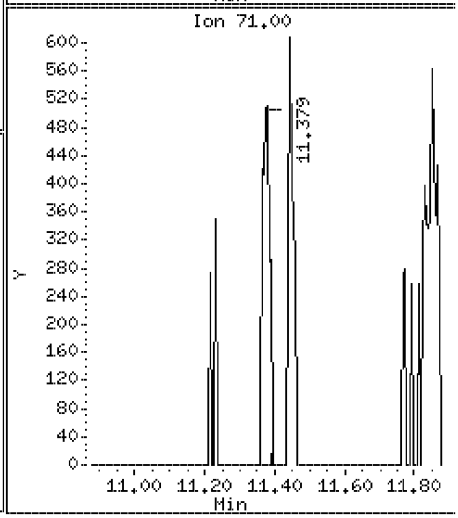












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06327.D

Date : 04-MAR-2017 20:12

Client ID:

Instrument: 10airB.i

Sample Info:

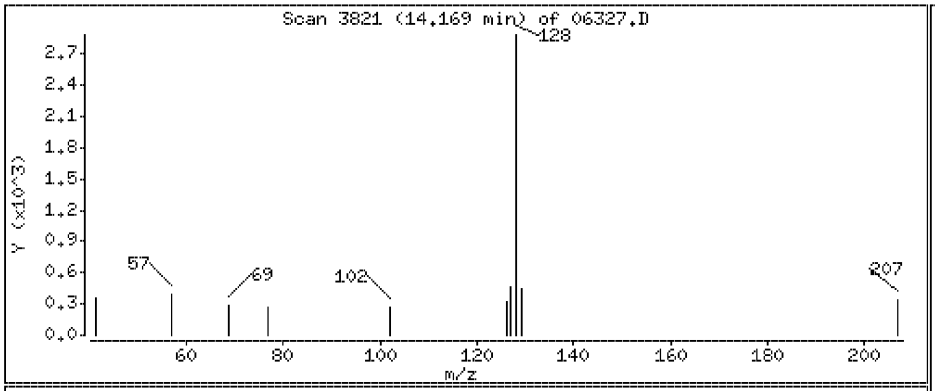
Operator: MJL

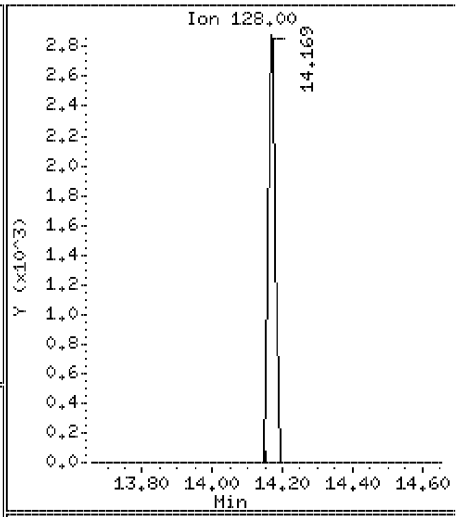
Column phase: J&W DB-5

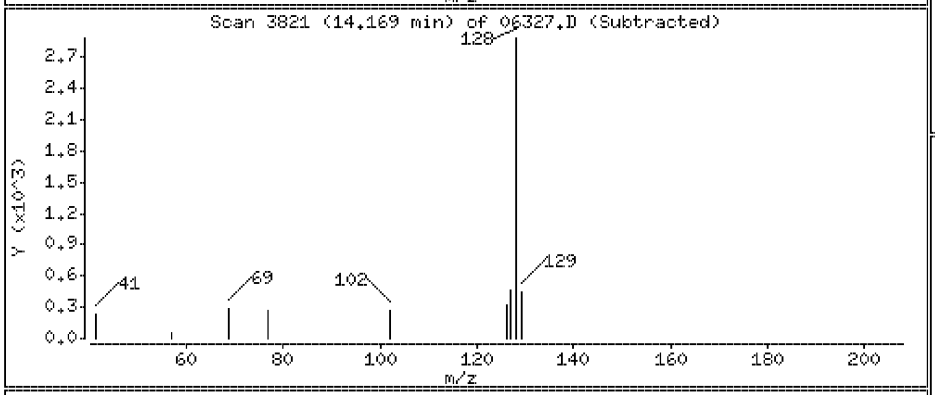
Column diameter: 0.32

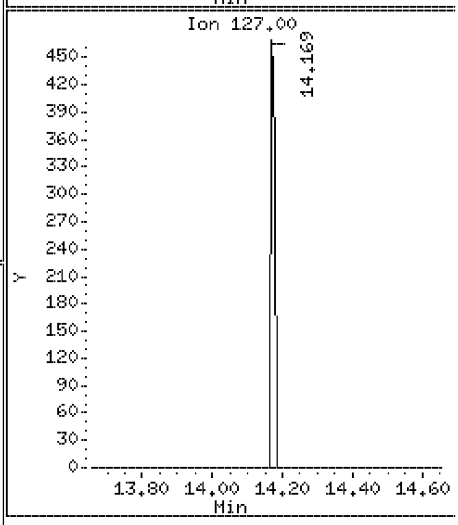
94 Naphthalene

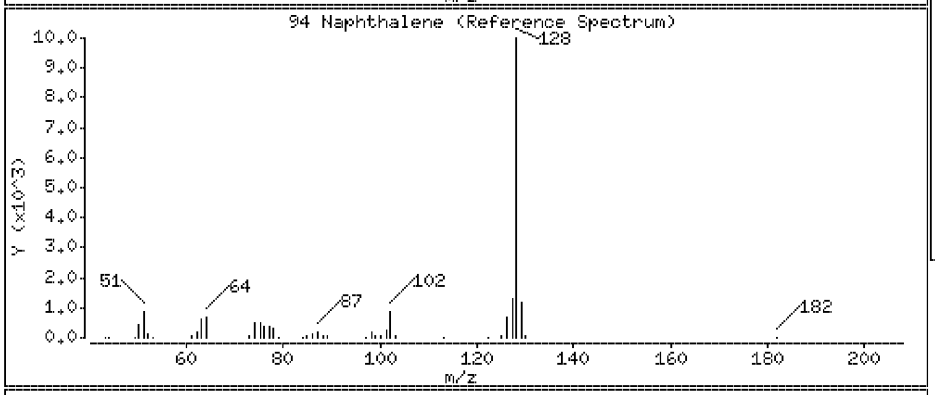
Concentration: 0.855 ppbv

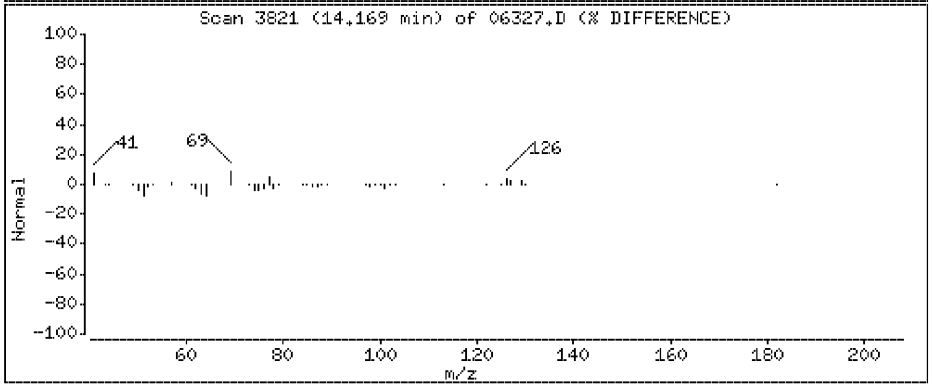






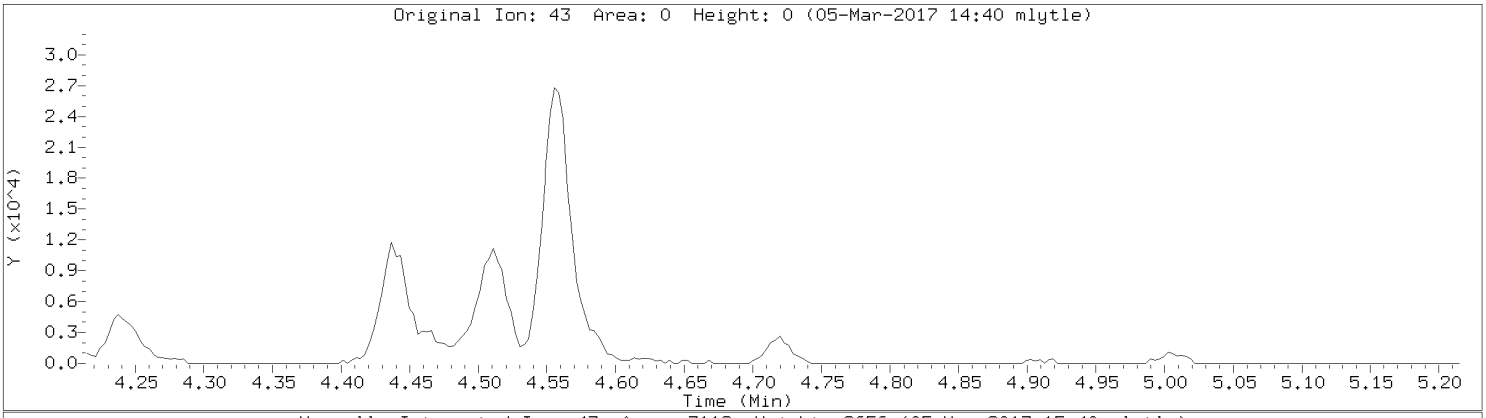


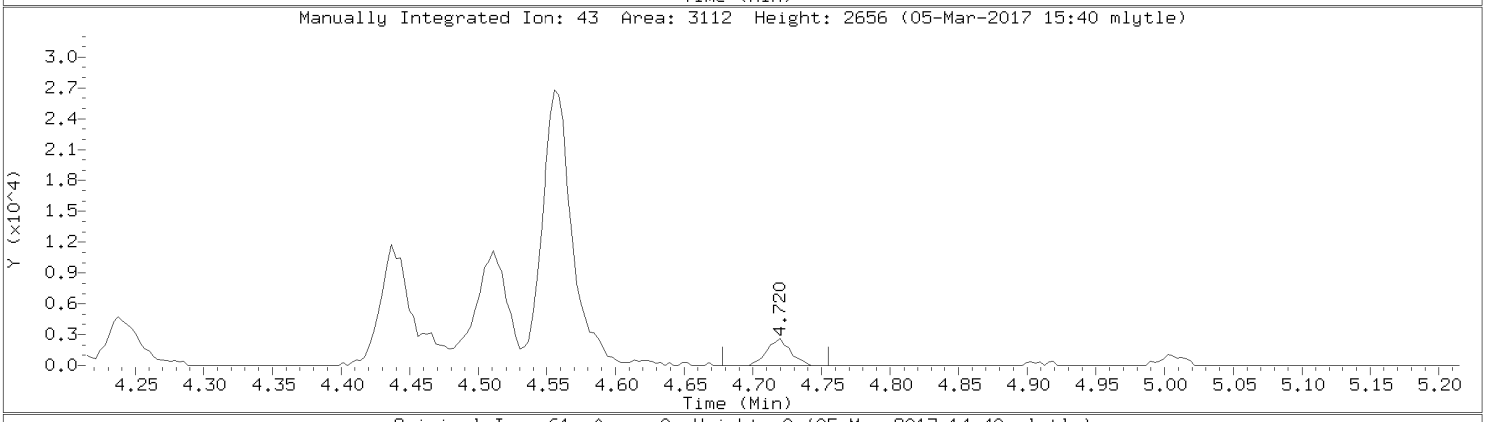


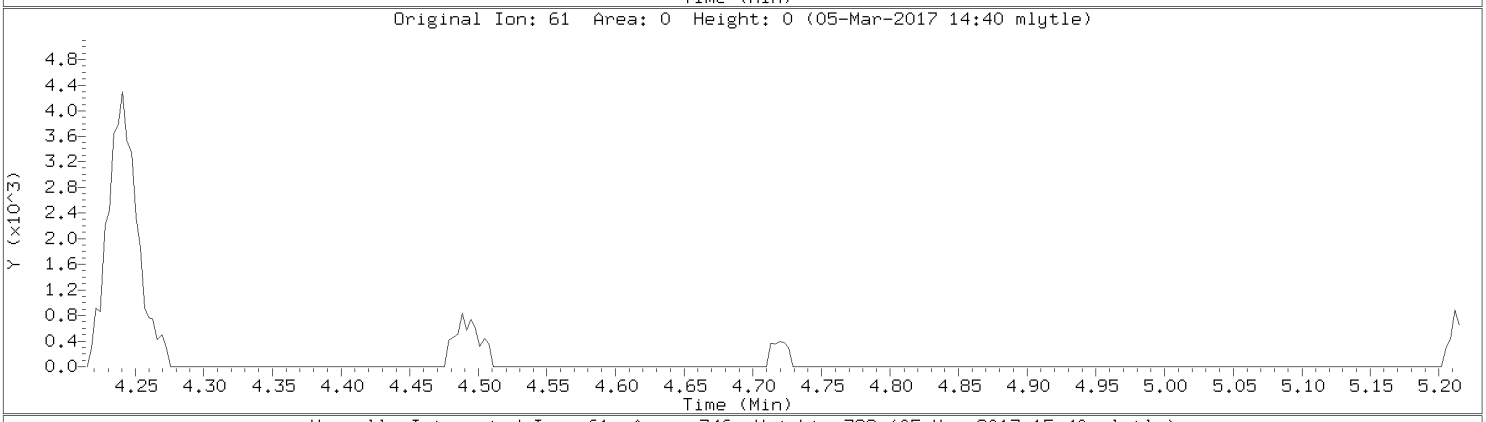


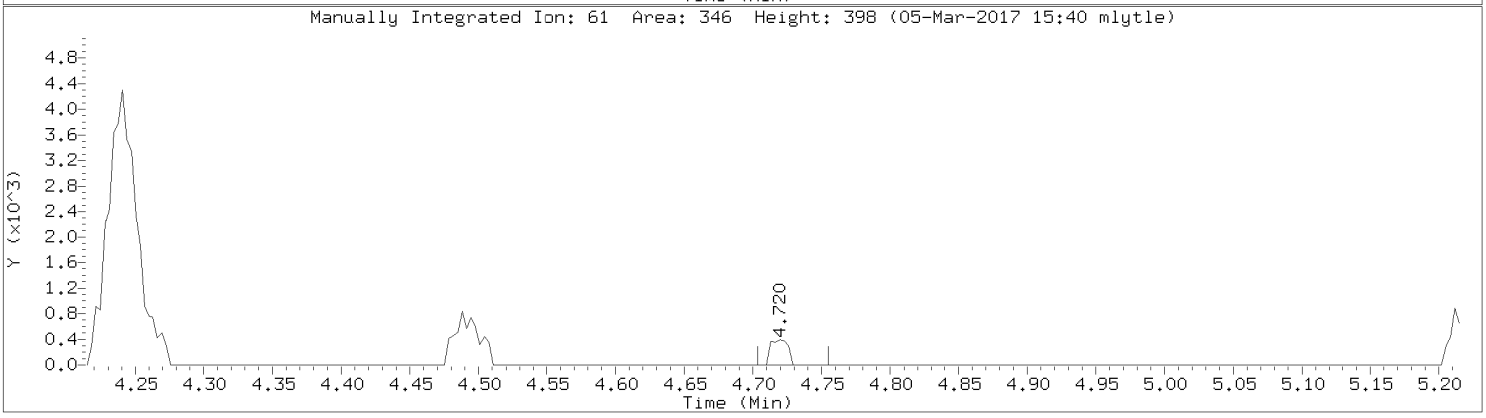
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06327.D
Injection Date: 04-MAR-2017 20:12
Instrument: 10airB.i
Lab Sample ID: 10379458001

Compound: Ethyl Acetate
CAS Number: 141-78-6

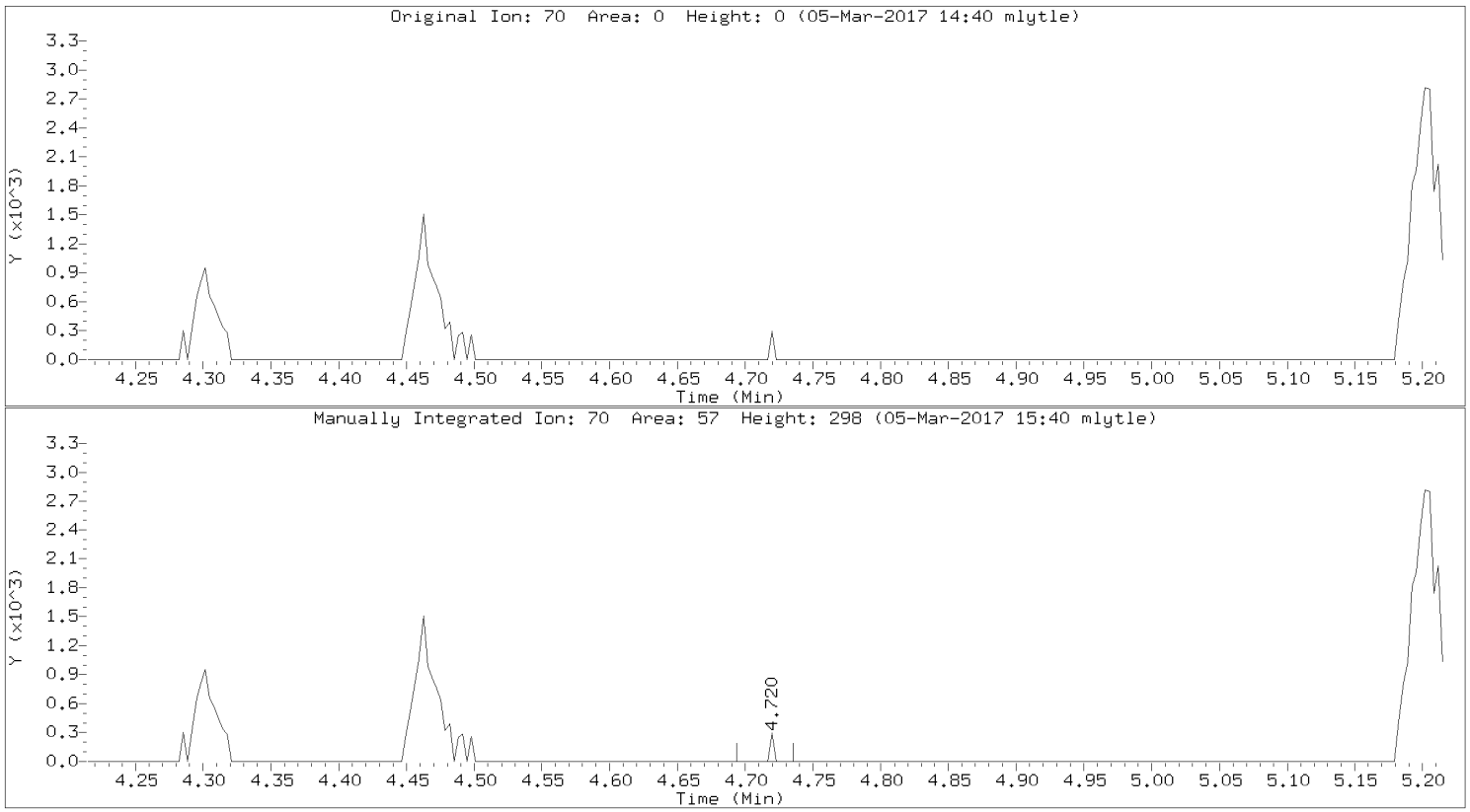






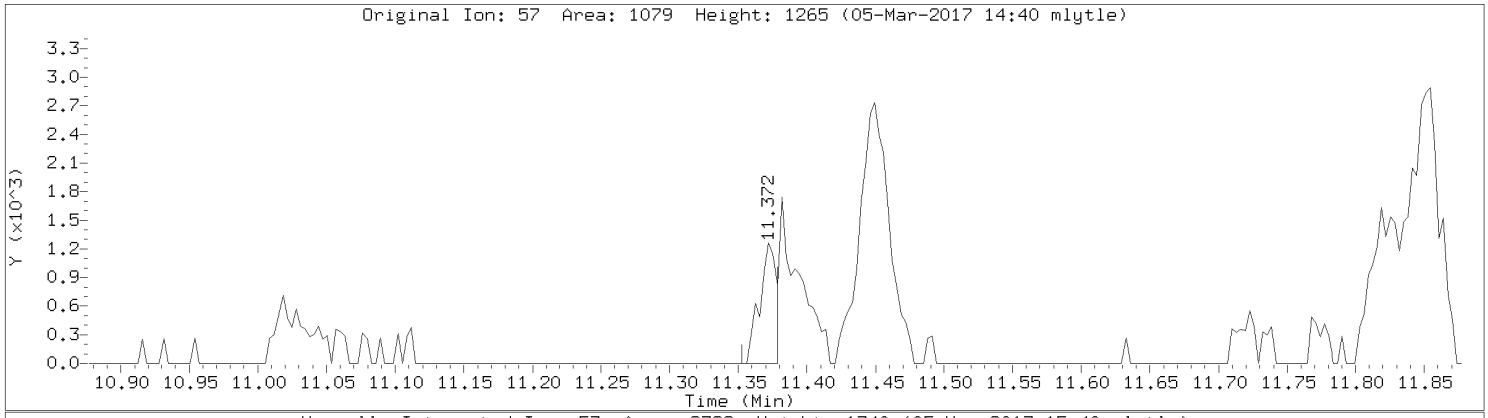


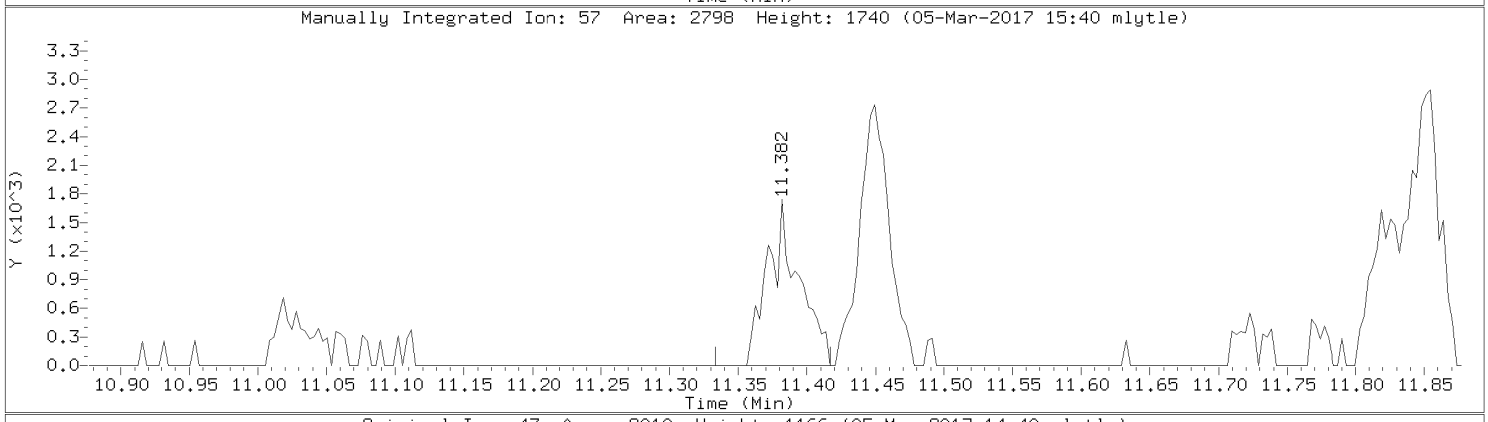
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06327.D
Injection Date: 04-MAR-2017 20:12
Instrument: 10airB.i
Lab Sample ID: 10379458001

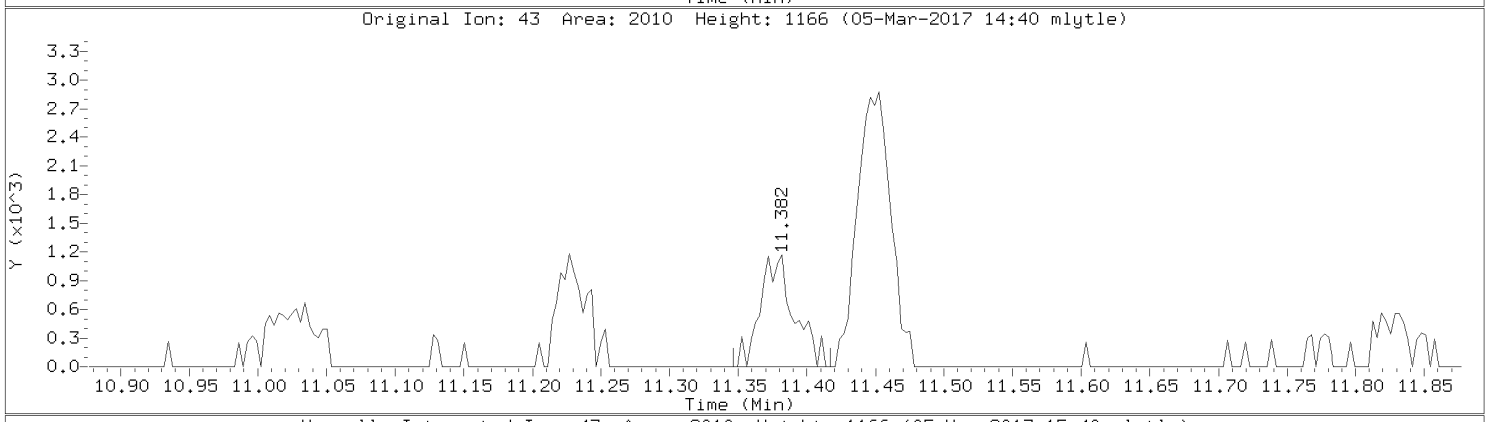


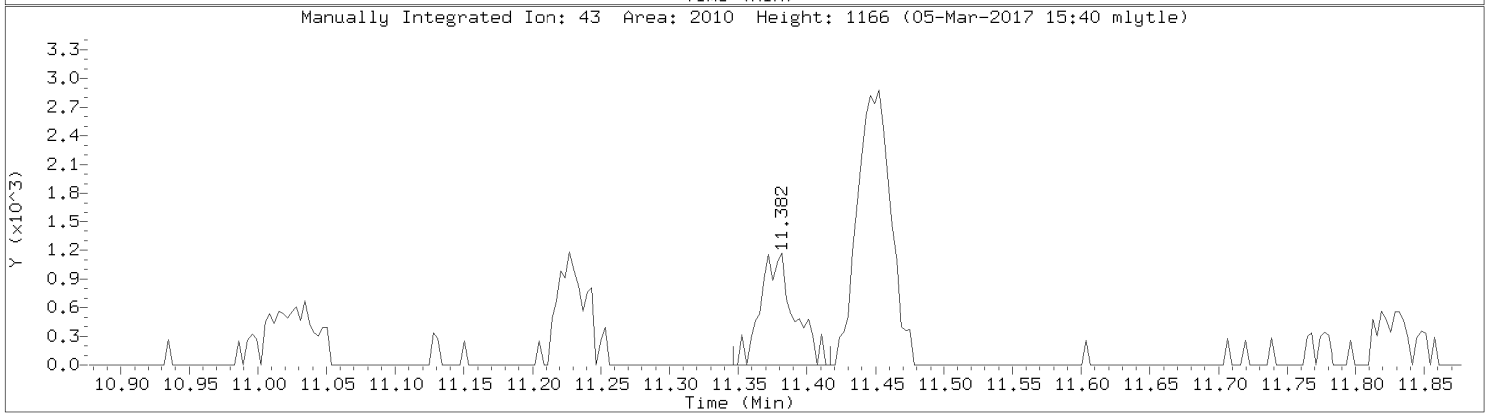
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06327.D
Injection Date: 04-MAR-2017 20:12
Instrument: 10airB.i
Lab Sample ID: 10379458001

Compound: n-Decane
CAS Number: 124-18-5

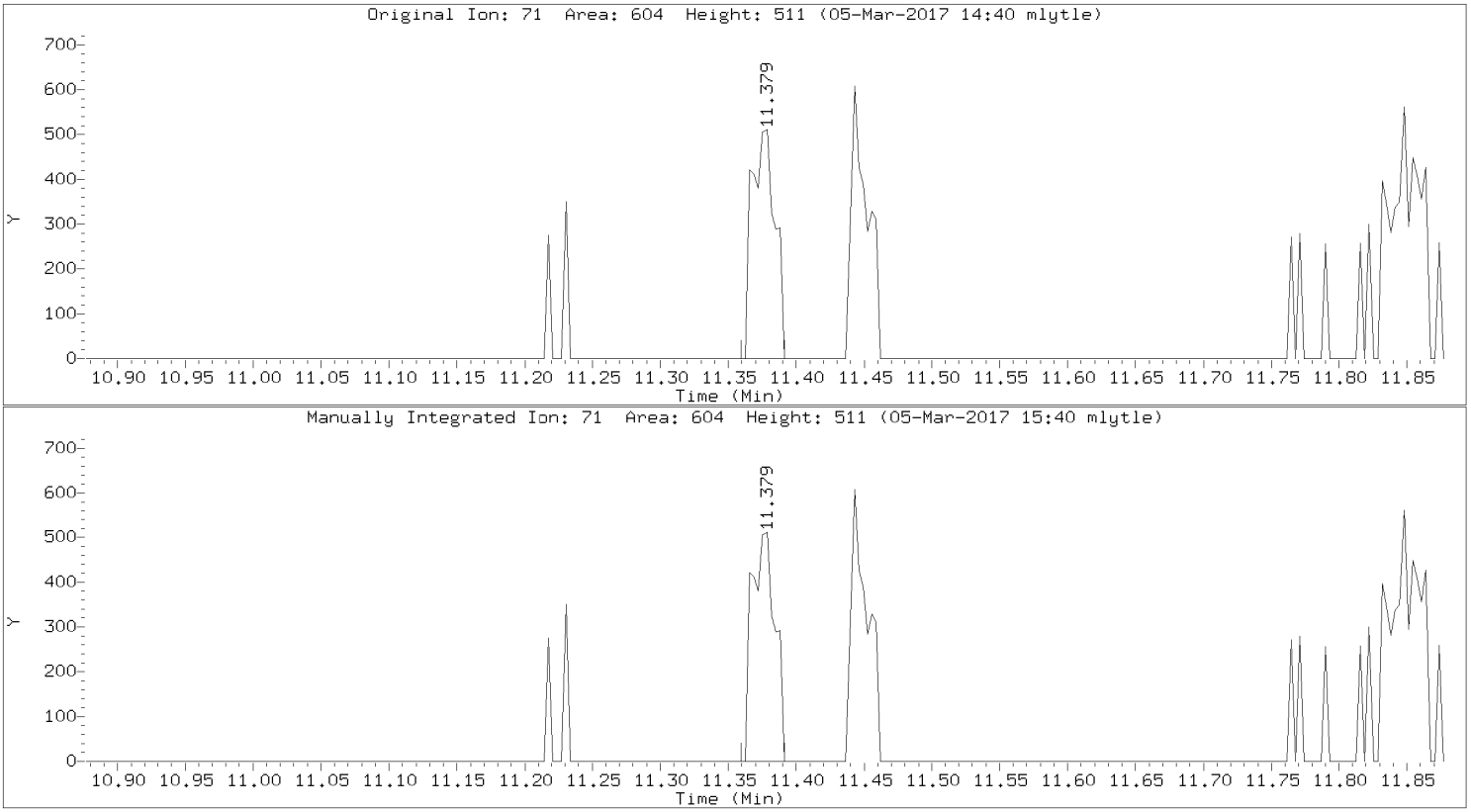








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06327.D
Injection Date: 04-MAR-2017 20:12
Instrument: 10airB.i
Lab Sample ID: 10379458001



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-C1_20170215 **Lab ID: 10379458001** Collected: 02/15/17 16:03 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.8**	ug/m3	4.8	0.46	1.92		03/04/17 20:12	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/04/17 20:12	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/04/17 20:12	79-34-5	
Tetrachloroethene	**8.9**	ug/m3	1.3	0.53	1.92		03/04/17 20:12	127-18-4	
Toluene	**1.5J**	ug/m3	1.5	0.30	1.92		03/04/17 20:12	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/04/17 20:12	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/04/17 20:12	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/04/17 20:12	79-00-5	
Trichloroethene	**80.6**	ug/m3	1.1	0.53	1.92		03/04/17 20:12	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.2	0.25	1.92		03/04/17 20:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/04/17 20:12	76-13-1	
1,2,4-Trimethylbenzene	**<0.24**	ug/m3	1.9	0.24	1.92		03/04/17 20:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/04/17 20:12	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/04/17 20:12	75-01-4	
m&p-Xylene	**<1.5**	ug/m3	3.4	1.5	1.92		03/04/17 20:12	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/04/17 20:12	95-47-6	

Sample: SS-C20_20170215 **Lab ID: 10379458002** Collected: 02/15/17 16:38 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.0**	ug/m3	4.4	1.5	1.83		03/04/17 20:43	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 20:43	107-05-1	
Benzene	**<0.22**	ug/m3	0.59	0.22	1.83		03/04/17 20:43	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 20:43	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 20:43	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 20:43	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 20:43	106-99-0	
2-Butanone (MEK)	**3.6J**	ug/m3	5.5	0.42	1.83		03/04/17 20:43	78-93-3	
Carbon disulfide	**0.66J**	ug/m3	1.2	0.18	1.83		03/04/17 20:43	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/04/17 20:43	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 20:43	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 20:43	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 20:43	75-00-3	
Chloroform	**0.62J**	ug/m3	0.91	0.35	1.83		03/04/17 20:43	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/04/17 20:43	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 20:43	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/04/17 20:43	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 20:43	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 20:43	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 20:43	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 20:43	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 20:43	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-C20_20170215 **Lab ID: 10379458002** Collected: 02/15/17 16:38 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 20:43	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.8	0.88	1.83		03/04/17 20:43	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 20:43	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 20:43	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 20:43	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/04/17 20:43	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/04/17 20:43	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 20:43	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 20:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 20:43	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 20:43	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 20:43	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 20:43	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/04/17 20:43	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 20:43	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 20:43	87-68-3	
n-Hexane	**<0.65**	ug/m3	1.3	0.65	1.83		03/04/17 20:43	110-54-3	
2-Hexanone	**0.83J**	ug/m3	7.6	0.75	1.83		03/04/17 20:43	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 20:43	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 20:43	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 20:43	108-87-2	
Methylene Chloride	**4.7J**	ug/m3	6.5	0.99	1.83		03/04/17 20:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 20:43	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 20:43	1634-04-4	
2-Propanol	**2.3J**	ug/m3	4.6	0.44	1.83		03/04/17 20:43	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/04/17 20:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 20:43	79-34-5	
Tetrachloroethene	**534**	ug/m3	1.3	0.51	1.83		03/04/17 20:43	127-18-4	
Tetrachloroethene	**643**	ug/m3	25.2	5.1	18.3		03/05/17 20:13	127-18-4	
Toluene	**<0.28**	ug/m3	1.4	0.28	1.83		03/04/17 20:43	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 20:43	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 20:43	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/04/17 20:43	79-00-5	
Trichloroethene	**2.3**	ug/m3	1.0	0.51	1.83		03/04/17 20:43	79-01-6	
Trichlorofluoromethane	**2.0J**	ug/m3	2.1	0.24	1.83		03/04/17 20:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**109**	ug/m3	2.9	0.55	1.83		03/04/17 20:43	76-13-1	
1,2,4-Trimethylbenzene	**1.1J**	ug/m3	1.8	0.23	1.83		03/04/17 20:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 20:43	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 20:43	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/04/17 20:43	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/04/17 20:43	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06427.D
Report Date: 06-Mar-2017 14:13

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06427.D
Lab Smp Id: 10379458002
Inj Date : 05-MAR-2017 20:13
Operator : CH1 Inst ID: 10air7.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 27
Dil Factor: 18.30000
Integrator: HP RTE Compound Sublist: PCE.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	18.300	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$ 32 Hexane-d14(S)	66	3.520	3.520	(0.783)	228887	12.2908	12.3
* 47 1,4-Difluorobenzene	114	4.497	4.504	(1.000)	682282	10.0000	
$ 59 Toluene-d8 (S)	98	5.832	5.835	(1.297)	568635	9.92836	9.93
66 Tetrachloroethene	166	6.680	6.683	(0.914)	221066	5.09502	93.2
* 67 Chlorobenzene - d5	117	7.307	7.310	(1.000)	437606	10.0000	
$ 85 1,4-dichlorobenzene-d4 (S)	150	10.484	10.487	(1.435)	171693	9.58938	9.59

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06427.D
Report Date: 06-Mar-2017 14:13

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06427.D
Lab Smp Id: 10379458002
Analysis Type: VOA
Quant Type: ISTD
Operator: CH1
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info: 27836

Calibration Date: 05-MAR-2017
Calibration Time: 10:57
Level: LOW
Sample Type: AIR

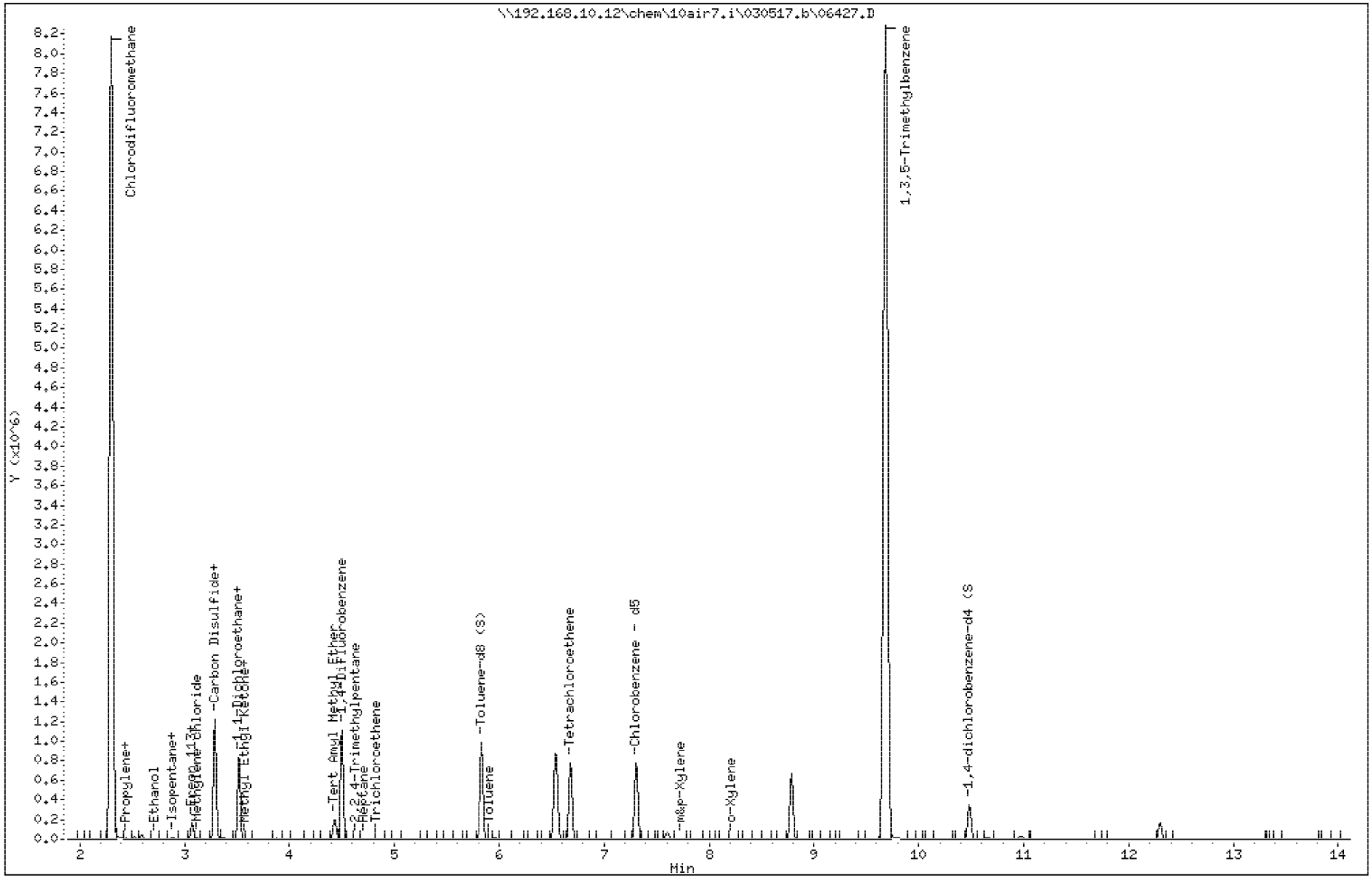
Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	682282	-18.39
67 Chlorobenzene - d	539522	323713	755331	437606	-18.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.50	4.17	4.83	4.50	-0.14
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06427.D
Date : 05-MAR-2017 20:13
Client ID:
Instrument: 10air7.i
Sample Info:
Operator: CH1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06427.D

Date : 05-MAR-2017 20:13

Client ID:

Instrument: 10air7.i

Sample Info:

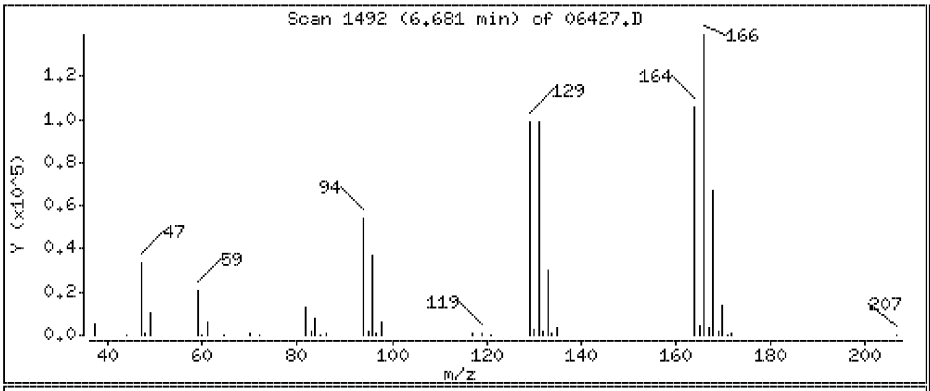
Operator: CH1

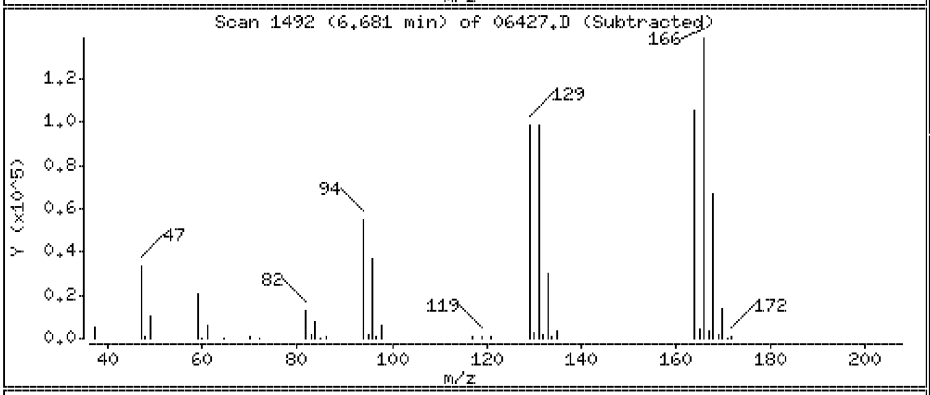
Column phase: J&W DB-5

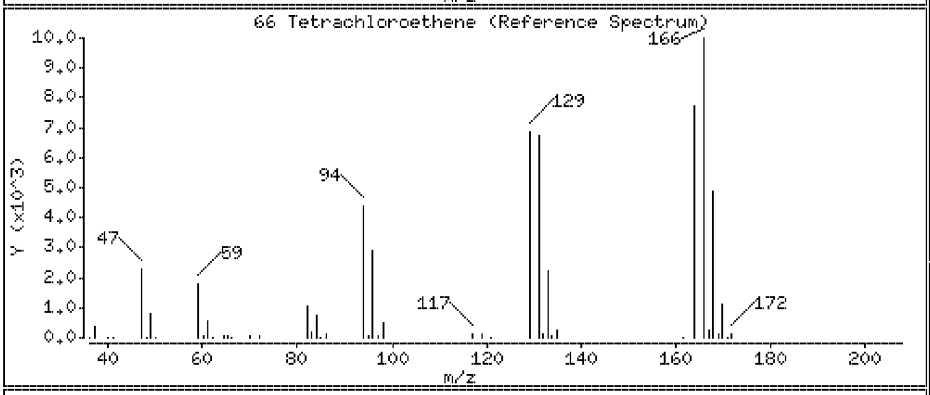
Column diameter: 0.32

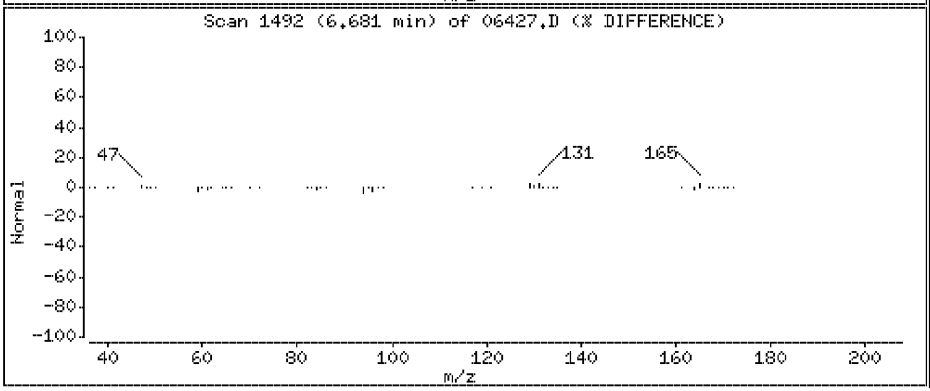
66 Tetrachloroethene

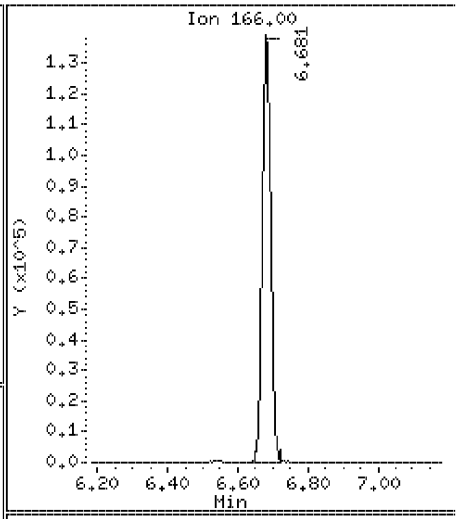
Concentration: 93.2 ppbv

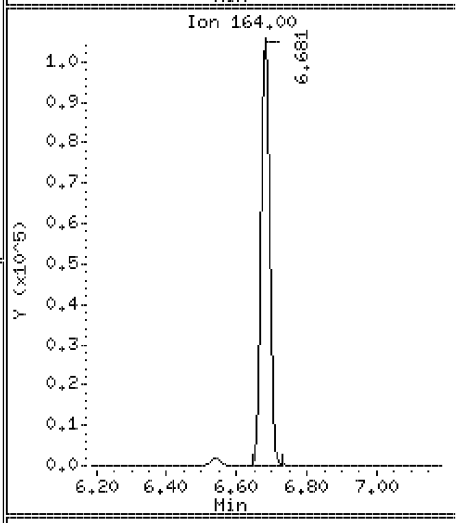


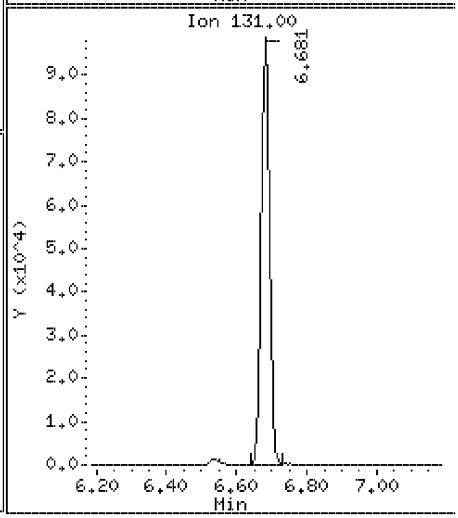












Data File: \\192.168.10.12\chem\10air7.i\030517.b/06427.D
Injection Date: 05-MAR-2017 20:13
Instrument: 10air7.i
Lab Sample ID: 10379458002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D
Report Date: 05-Mar-2017 15:42

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06328.D
Lab Smp Id: 10379458002
Inj Date : 04-MAR-2017 20:43
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 28
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.031	3.060	(0.541)	10477	0.21411	0.392	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.545	(0.633)	23971	5.14985	9.42	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.645	3.674	(0.651)	6722	0.19355	0.354	
17	Acrolein	56	3.661	3.684	(0.654)	1727	0.56174	1.03	
18	Acetone	43	3.709	3.722	(0.662)	68144	3.39031	6.20	
19	Isopropyl Alcohol	45	3.764	3.767	(0.672)	10300	0.50247	0.920	
20	1,1-Dichloroethene	61	Compound Not Detected.						(D)
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.931	3.951	(0.702)	200125	7.63068	14.0	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D
Report Date: 05-Mar-2017 15:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.957	(0.707)	12165	0.46164	0.845	
	25 Methylene chloride	49	3.976	4.005	(0.710)	10391	0.73246	1.34	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	4.089	4.127	(0.730)	3042	0.11386	0.208	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	4.430	4.391	(0.791)	13103	0.56535	1.03	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.491	(0.800)	377458	9.36539	9.37	
	33 Methyl Ethyl Ketone	72	4.552	4.555	(0.813)	3574	0.66529	1.22	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.859)	1786	0.06805	0.125(H)	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1266794	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.976	5.989	(1.067)	4896	0.23003	0.421	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1090653	9.61932	9.62	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						(D)
	62 Methyl Butyl Ketone	43	7.378	7.372	(0.854)	2949	0.10917	0.200	
	63 n-Octane	43	7.568	7.584	(0.876)	5777	0.19748	0.361(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	1256819	42.3204	77.4(A)	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	855249	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D
Report Date: 05-Mar-2017 15:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.397	11.378	(2.035)	11063	0.57074	1.04	(QM)
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.506	11.513	(1.331)	6124	0.12054	0.221	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	513170	10.8924	10.9	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	3809	0.44723	0.818	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D
Report Date: 05-Mar-2017 15:42

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06328.D
Lab Smp Id: 10379458002
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

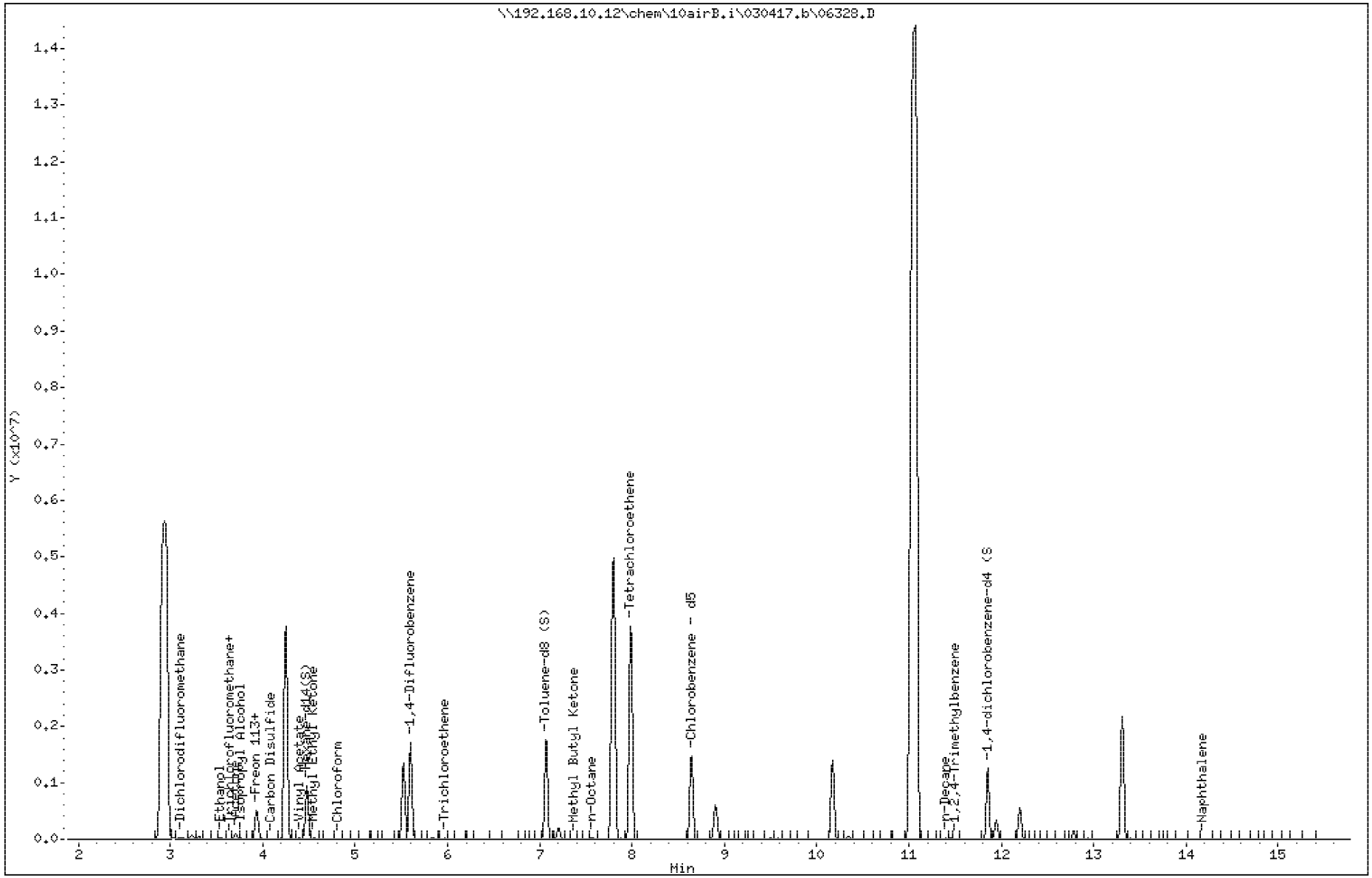
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1266794	-10.42
67 Chlorobenzene - d	951026	570616	1331436	855249	-10.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D
Date : 04-MAR-2017 20:43
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

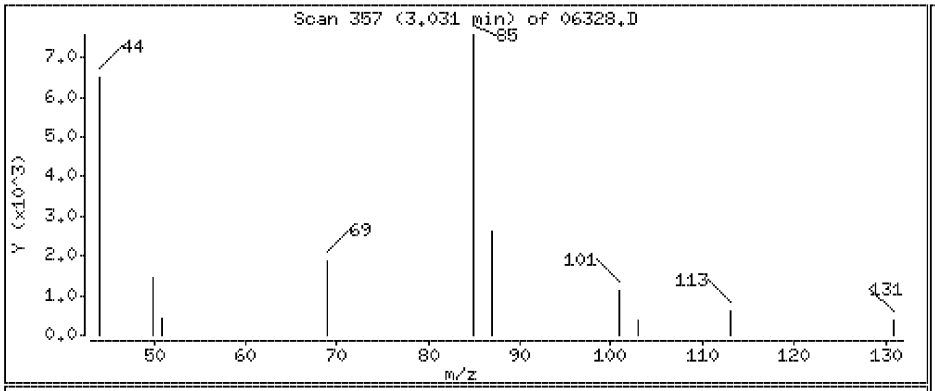
Operator: MJL

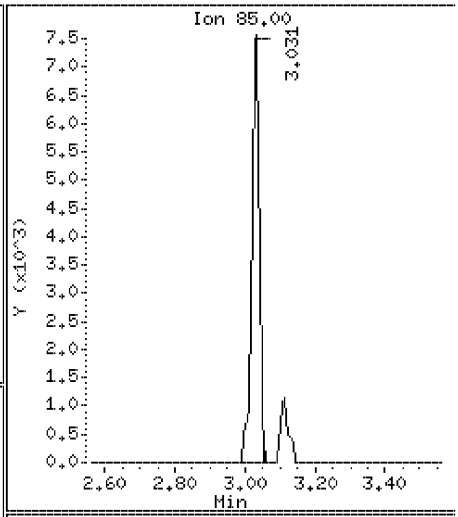
Column phase: J&W DB-5

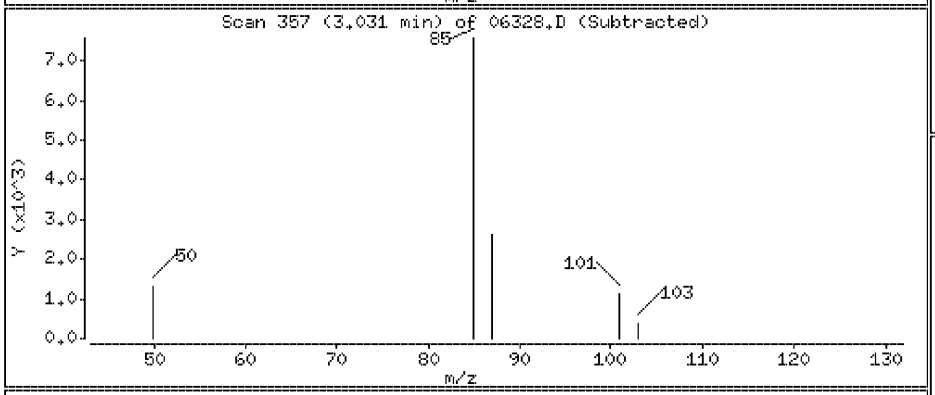
Column diameter: 0.32

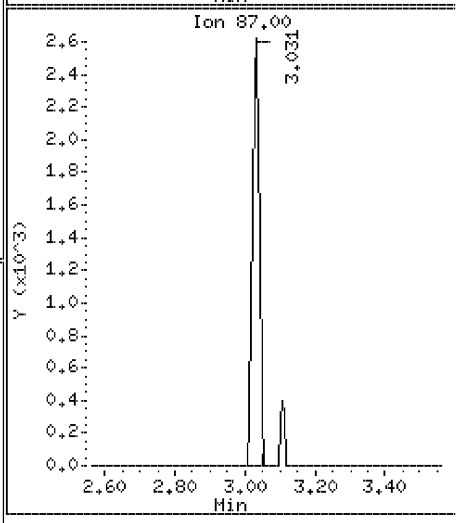
5 Dichlorodifluoromethane

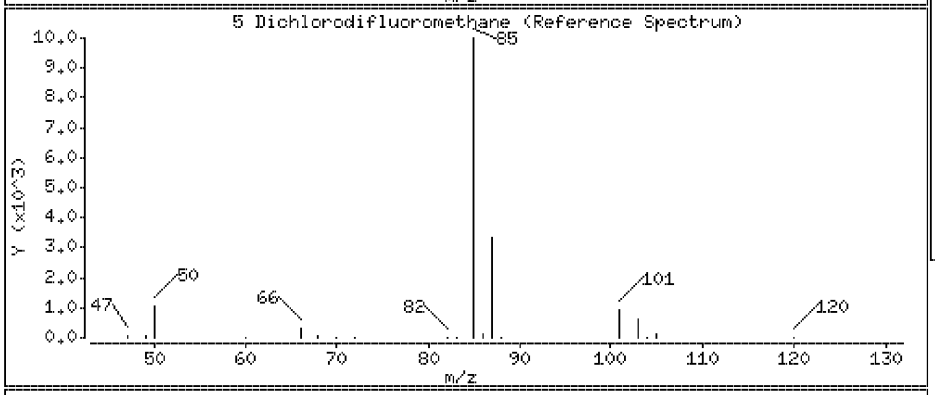
Concentration: 0.392 ppbv

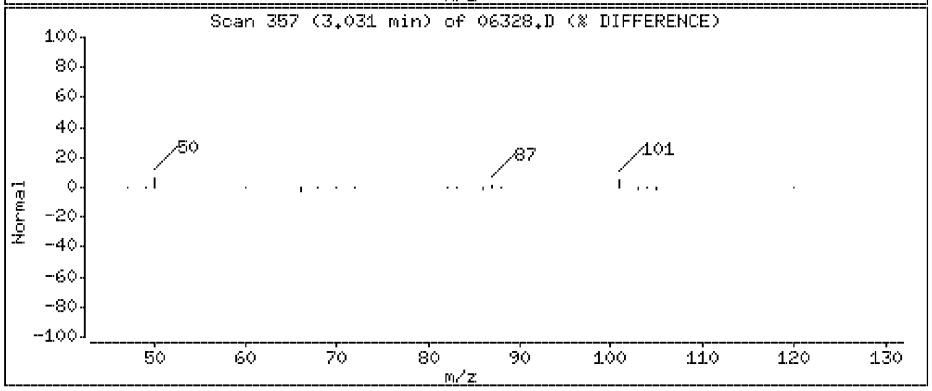












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

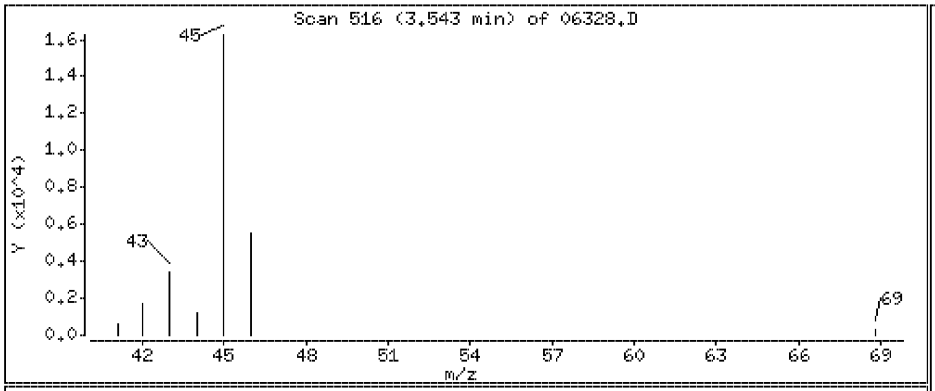
Operator: MJL

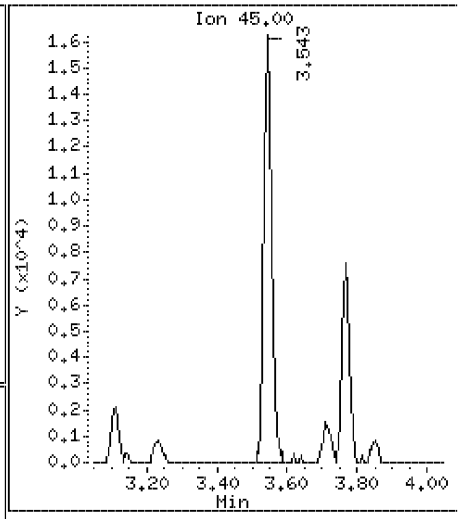
Column phase: J&W DB-5

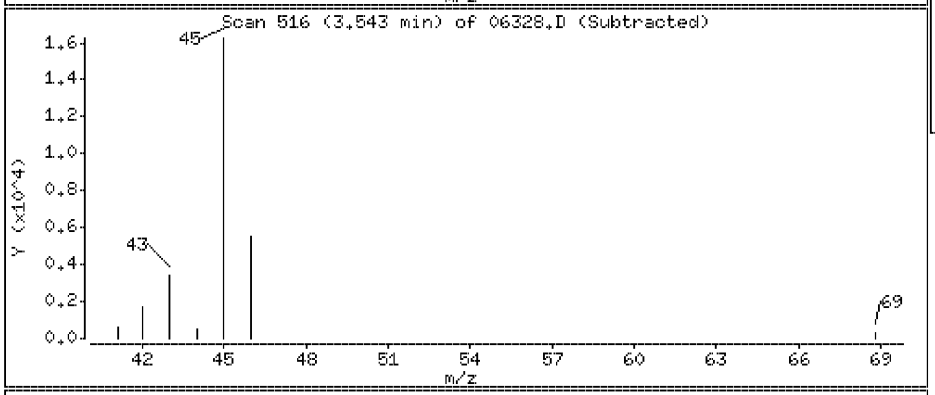
Column diameter: 0.32

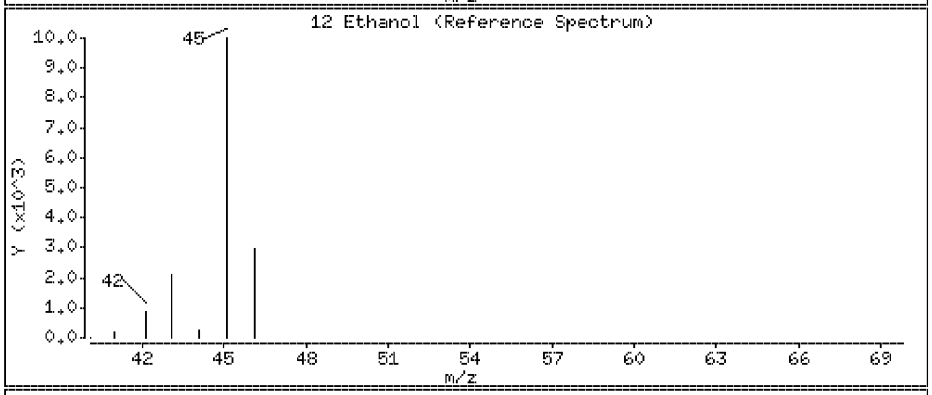
12 Ethanol

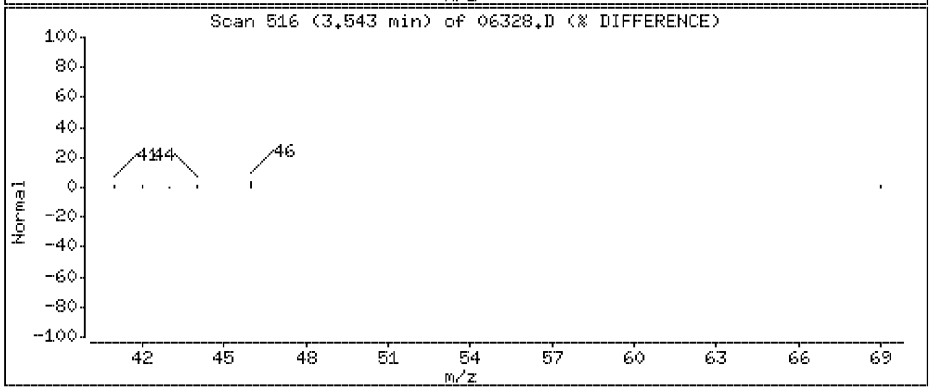
Concentration: 9.42 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

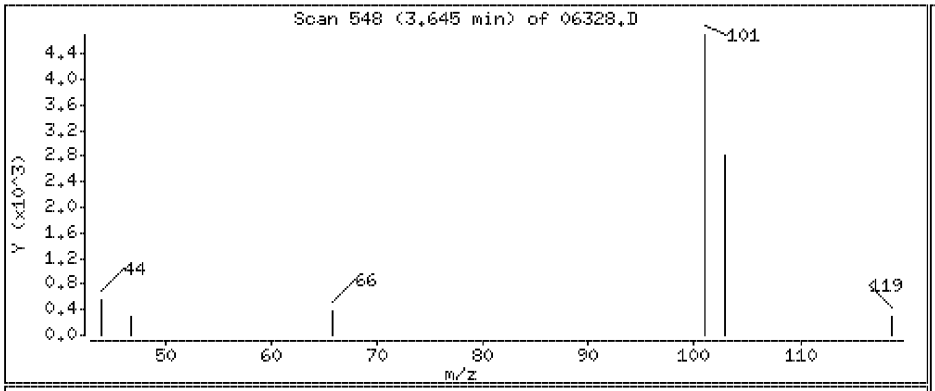
Operator: MJL

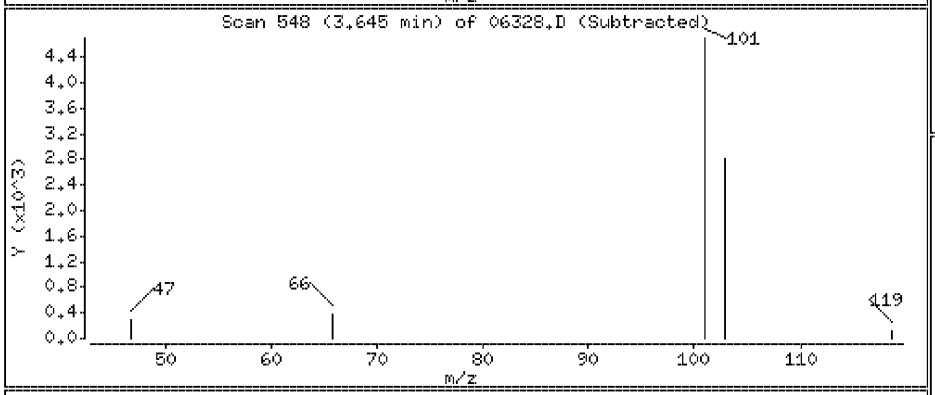
Column phase: J&W DB-5

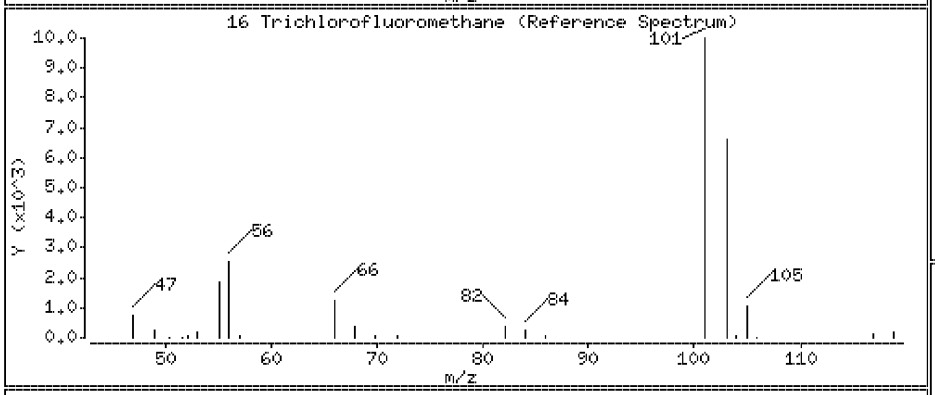
Column diameter: 0.32

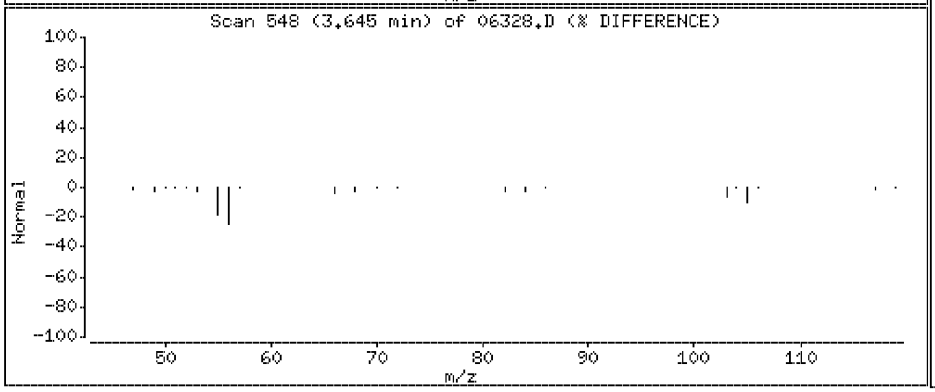
16 Trichlorofluoromethane

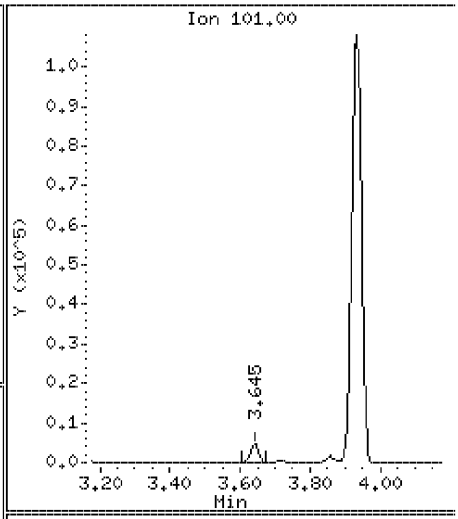
Concentration: 0.354 ppbv

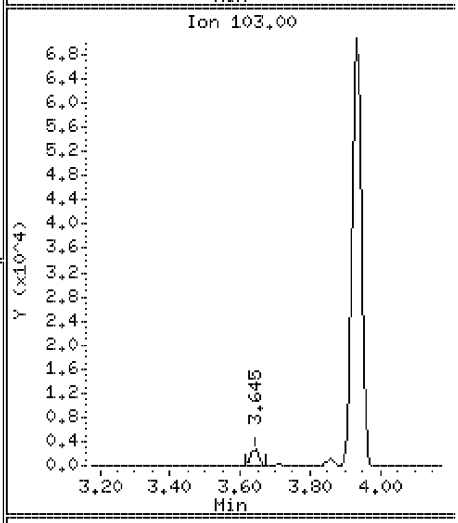


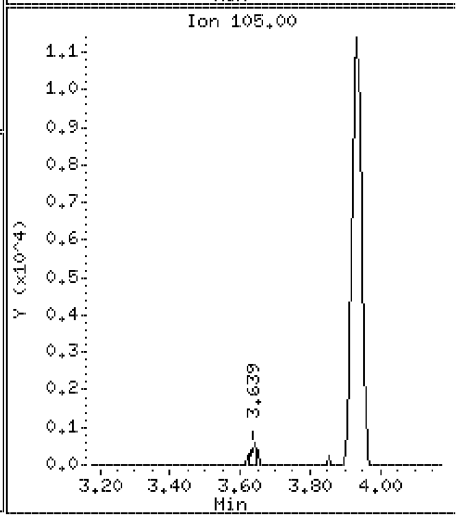












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

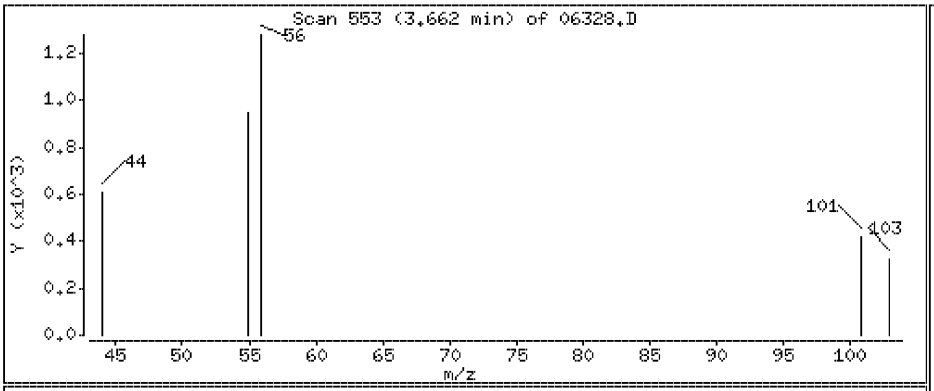
Operator: MJL

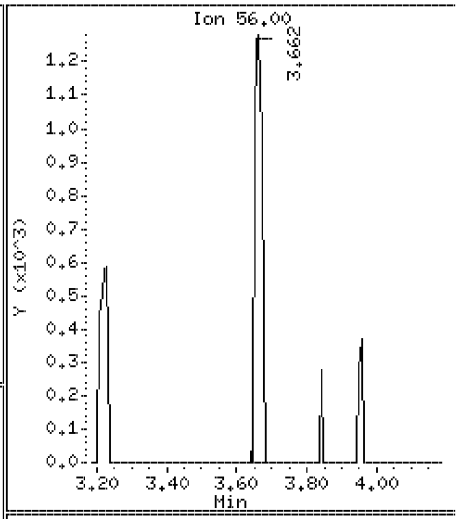
Column phase: J&W DB-5

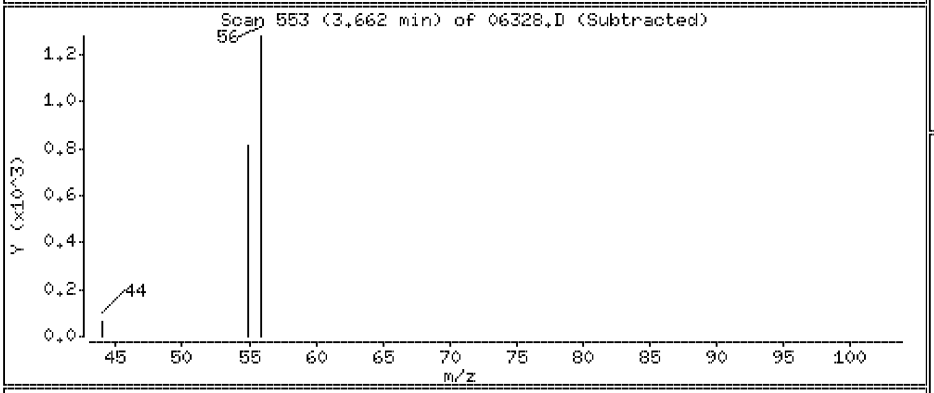
Column diameter: 0.32

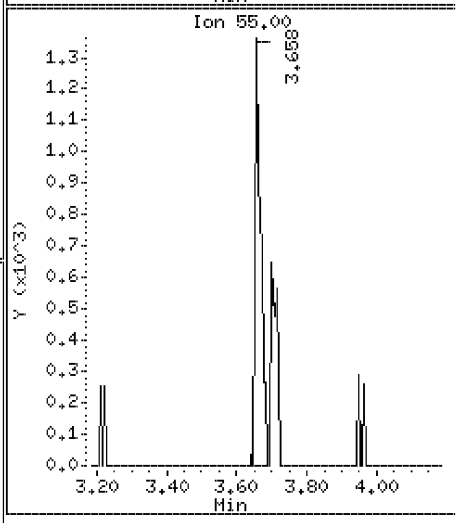
17 Acrolein

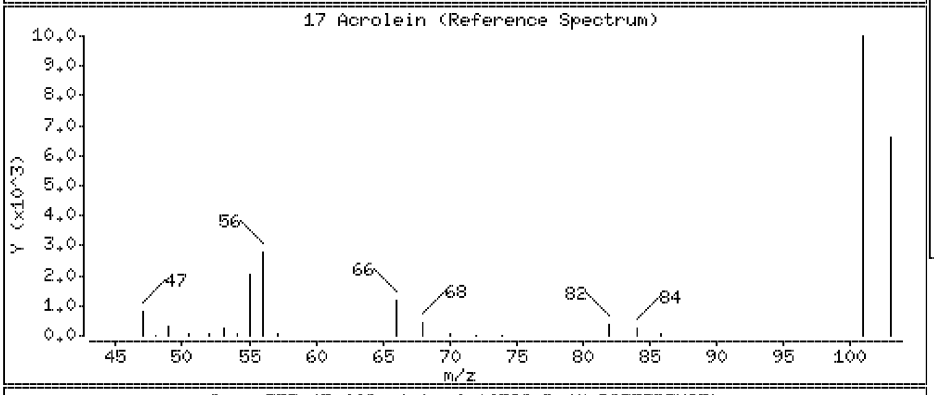
Concentration: 1.03 ppbv

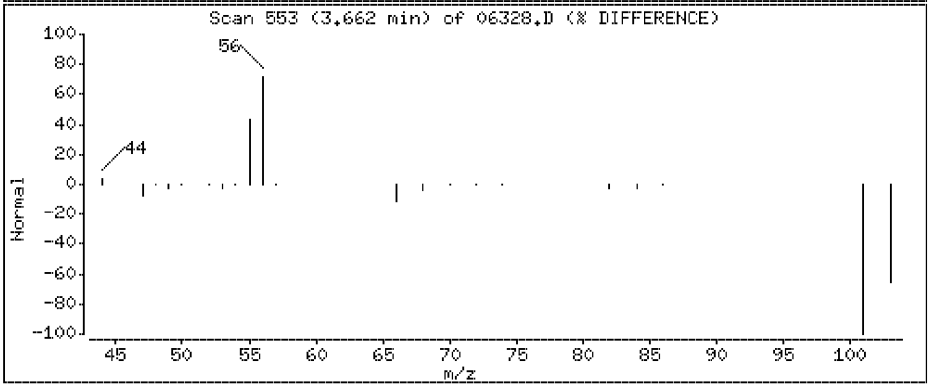












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

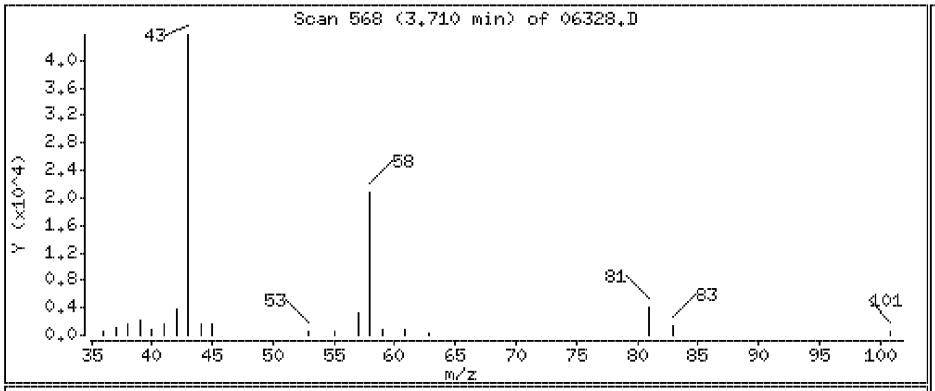
Operator: MJL

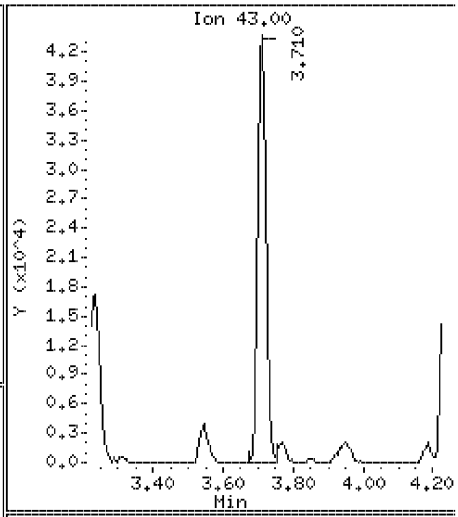
Column phase: J&W DB-5

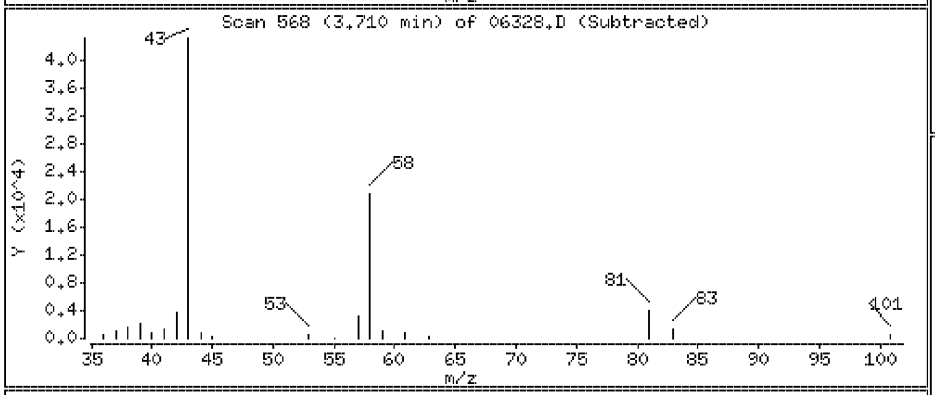
Column diameter: 0.32

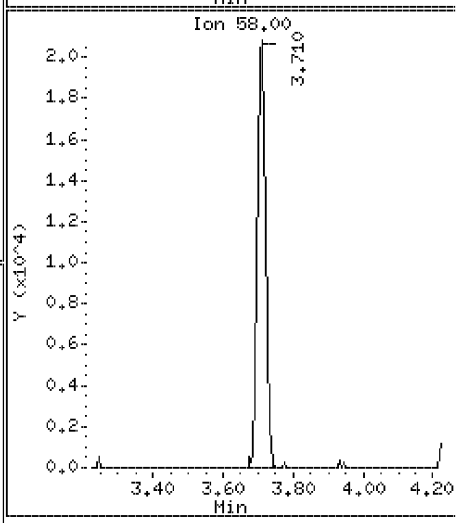
18 Acetone

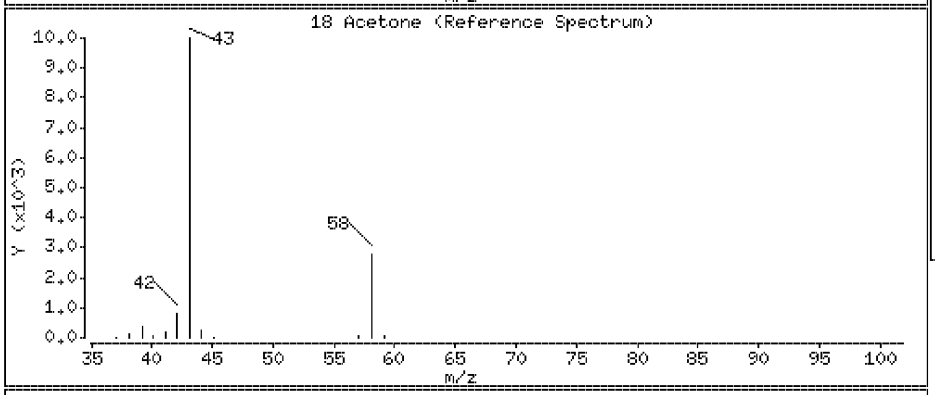
Concentration: 6.20 ppbv

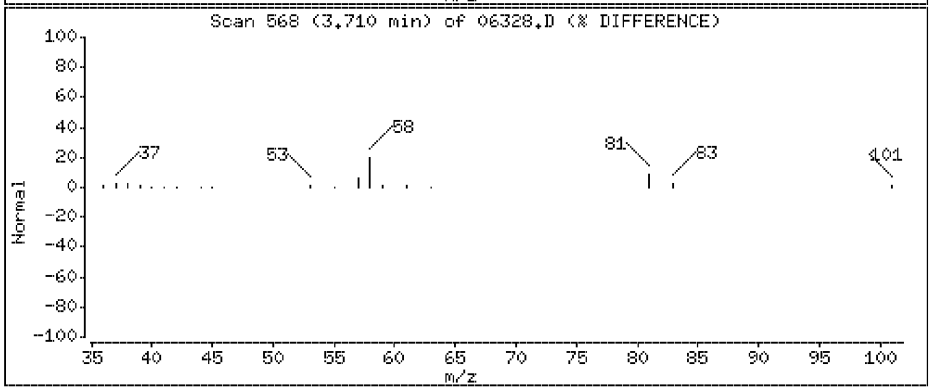












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

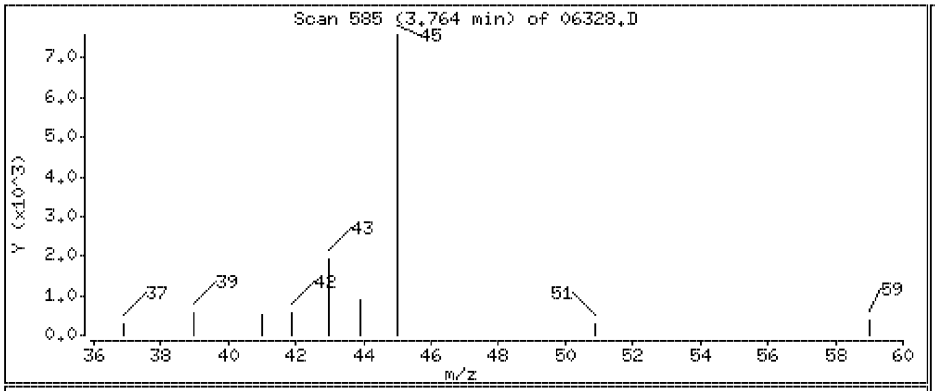
Operator: MJL

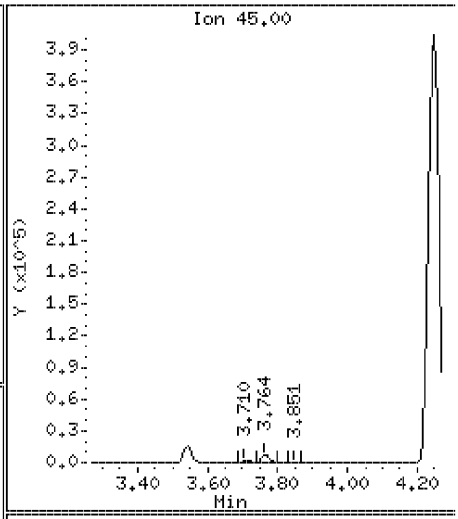
Column phase: J&W DB-5

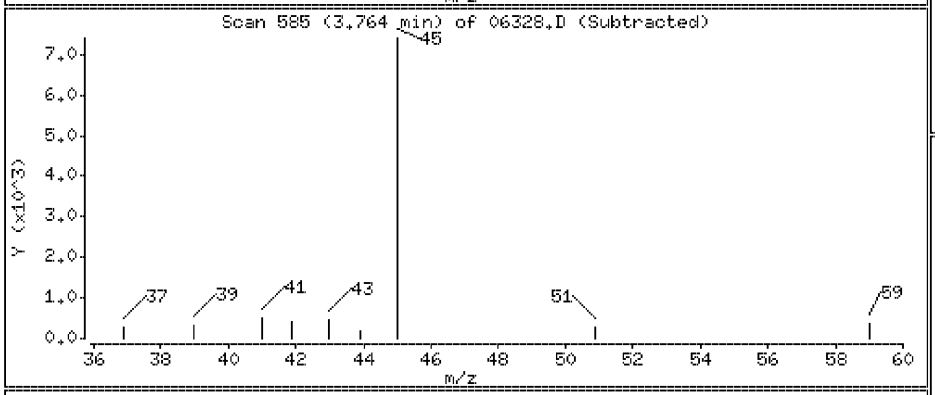
Column diameter: 0.32

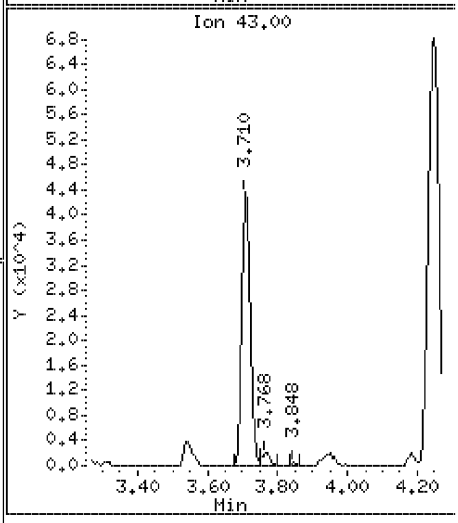
19 Isopropyl Alcohol

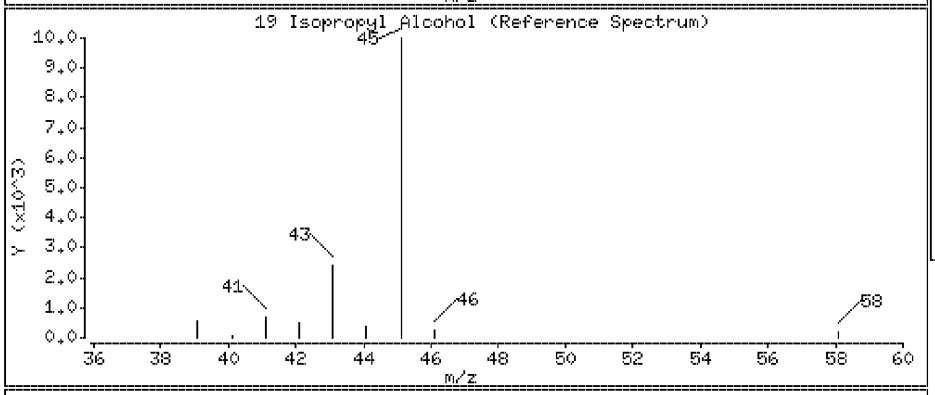
Concentration: 0.920 ppbv

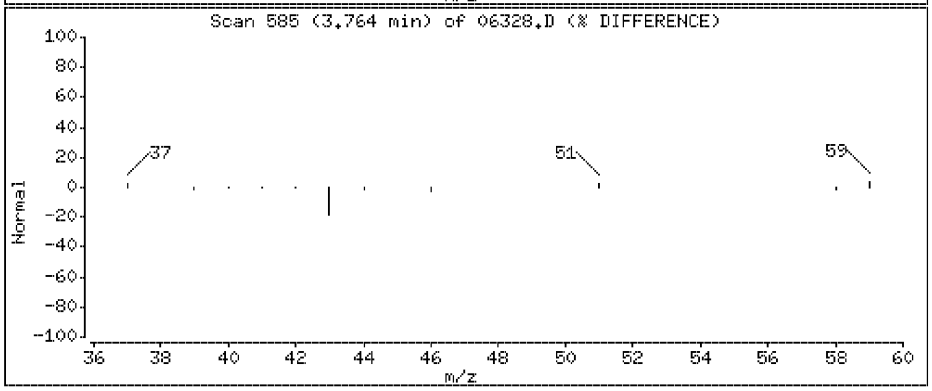












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

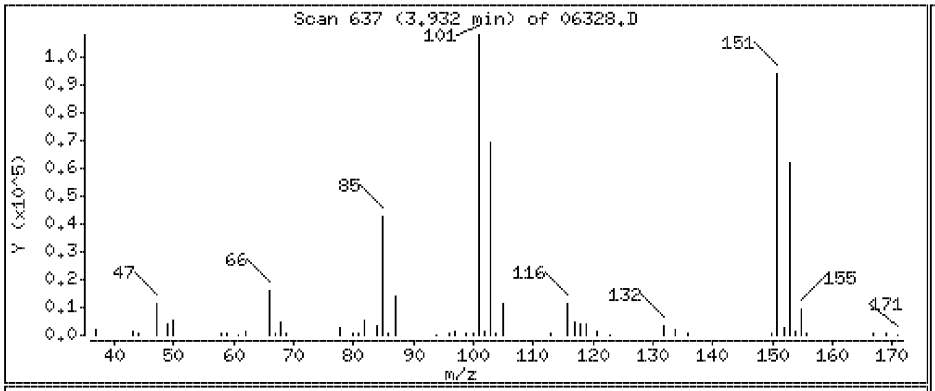
Operator: MJL

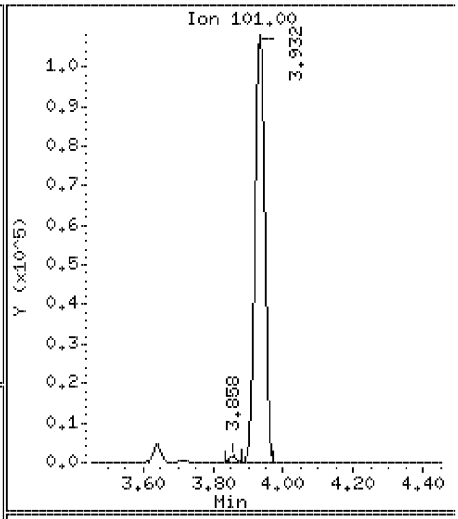
Column phase: J&W DB-5

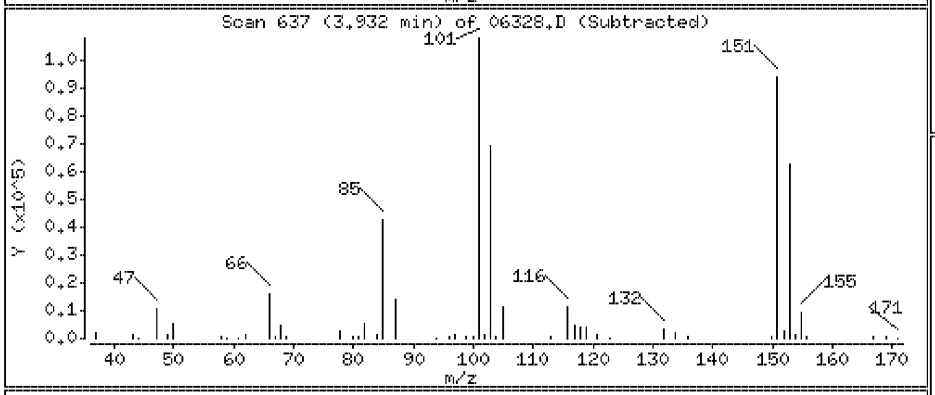
Column diameter: 0.32

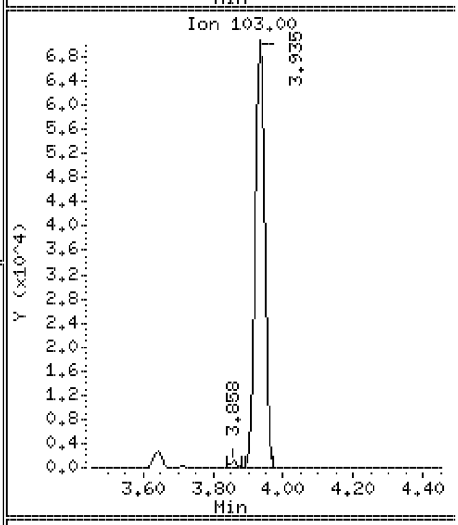
22 Freon 113

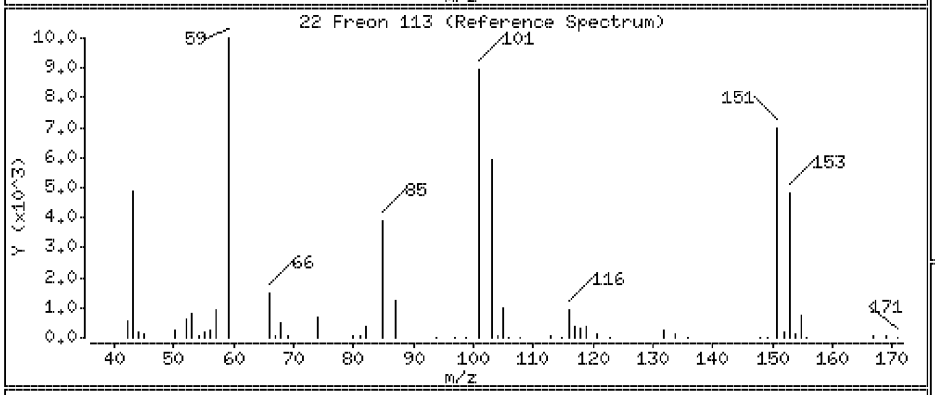
Concentration: 14.0 ppbv

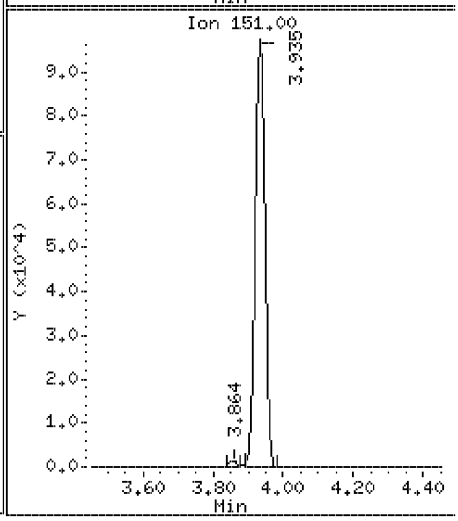


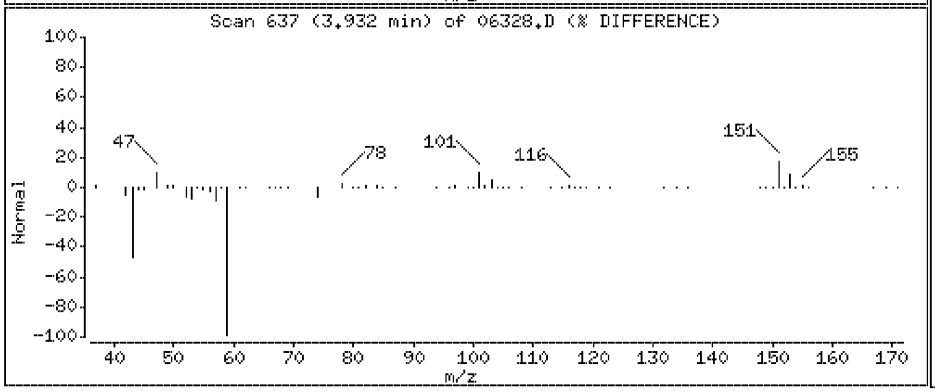












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

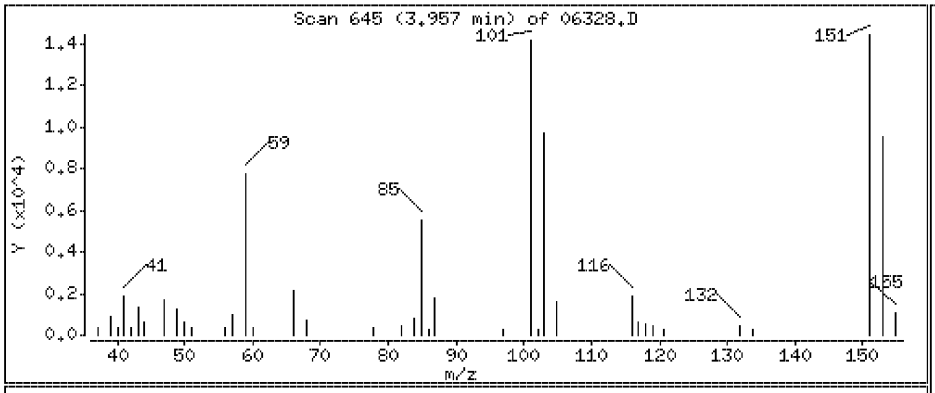
Operator: MJL

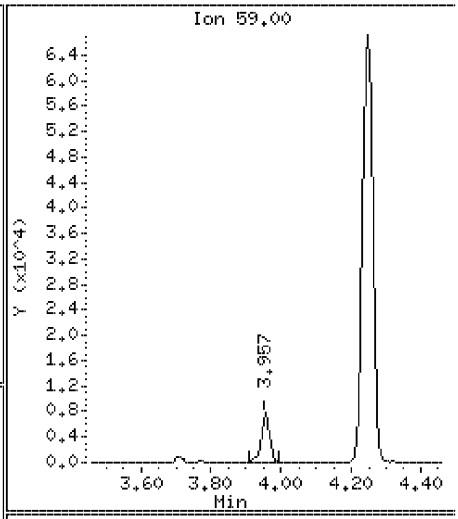
Column phase: J&W DB-5

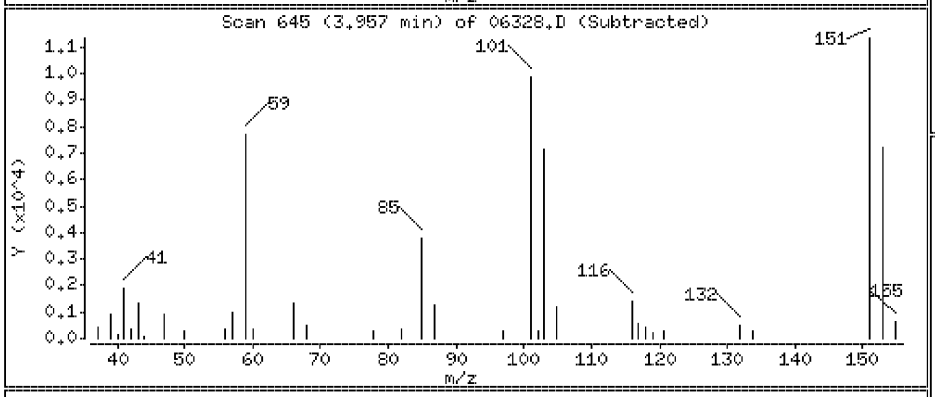
Column diameter: 0.32

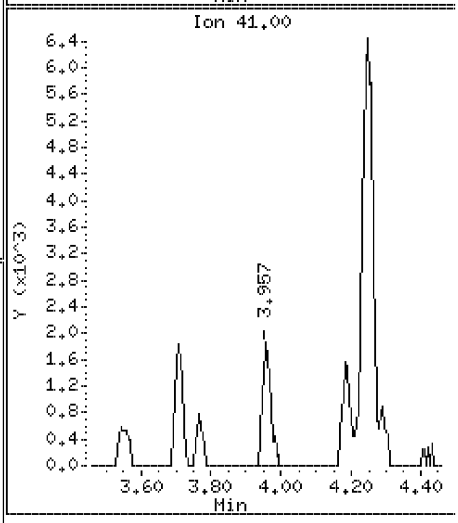
24 Tert Butyl Alcohol (TBA)

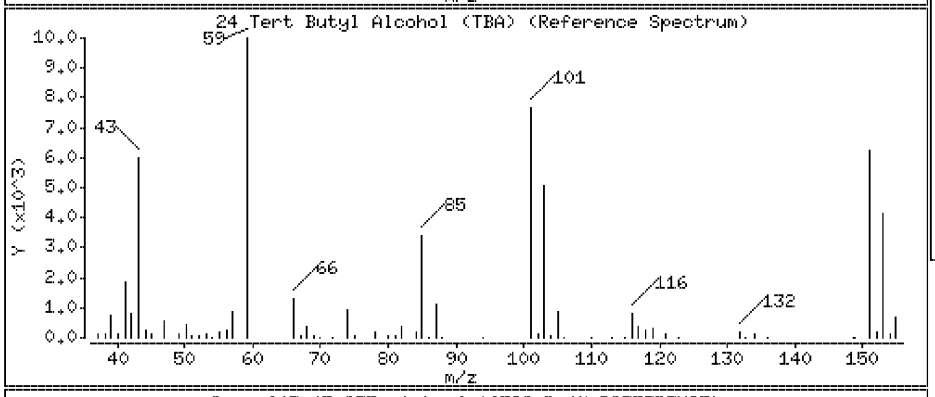
Concentration: 0.845 ppbv

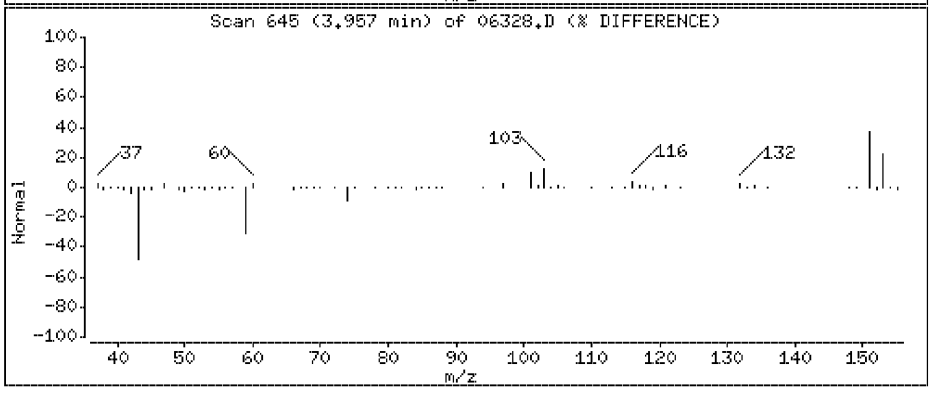












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

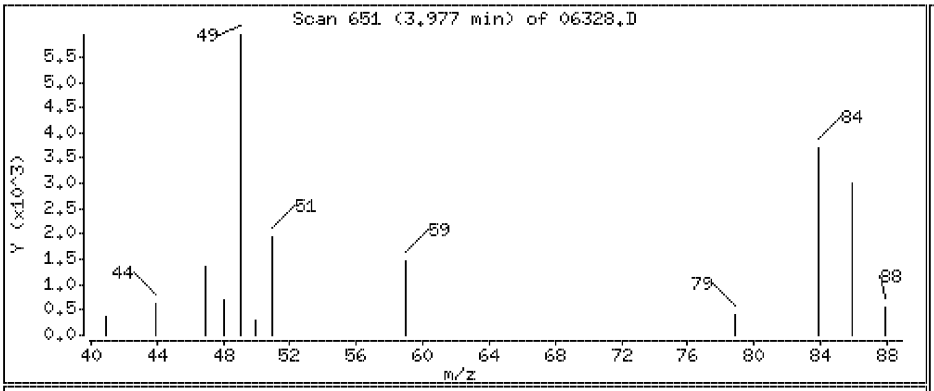
Operator: MJL

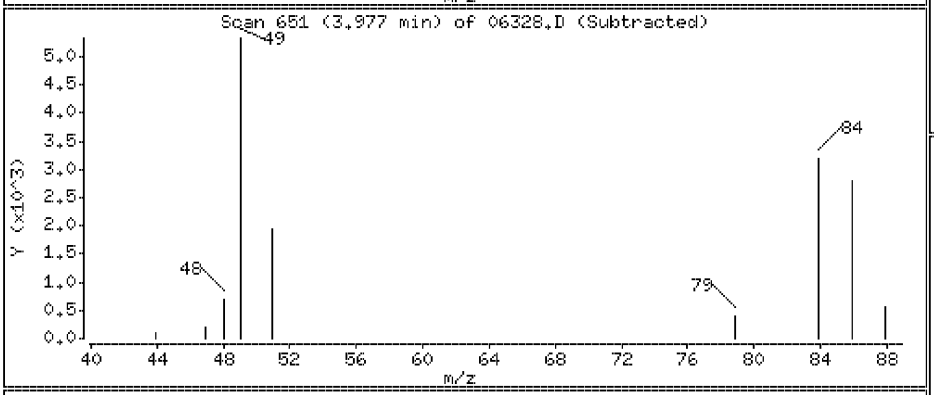
Column phase: J&W DB-5

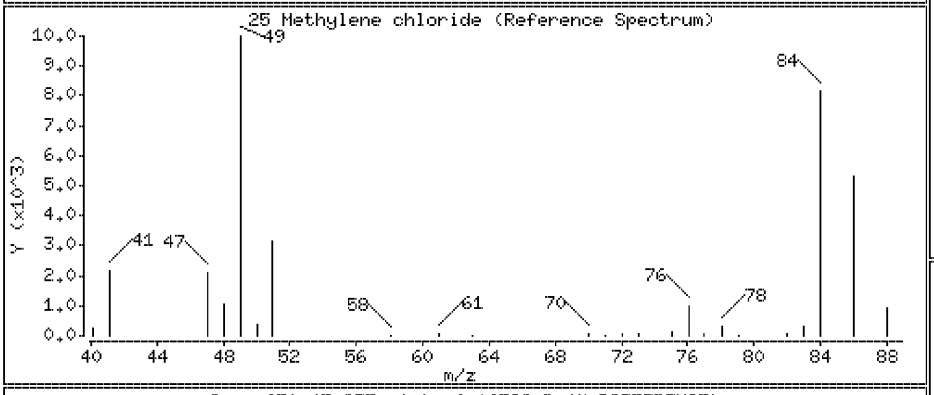
Column diameter: 0.32

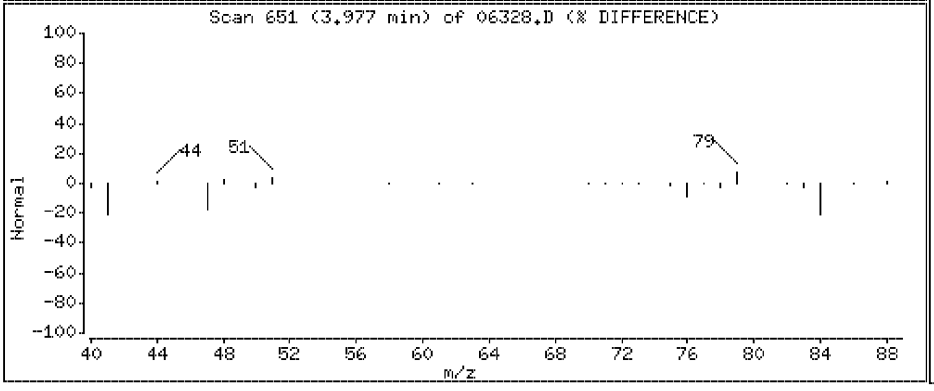
25 Methylene chloride

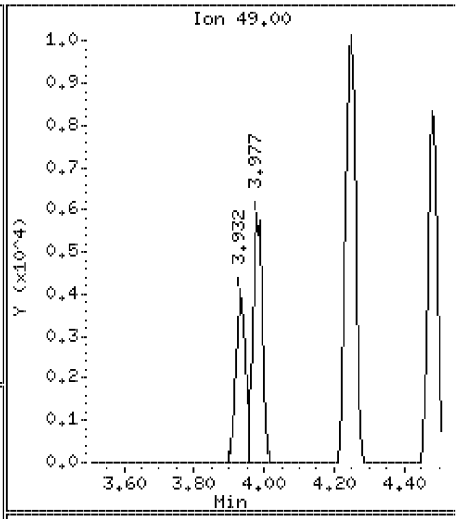
Concentration: 1.34 ppbv

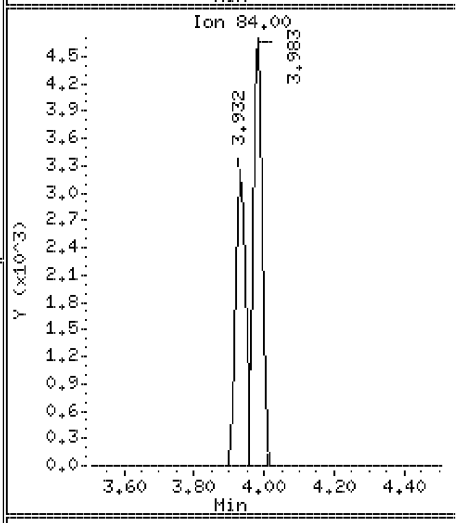


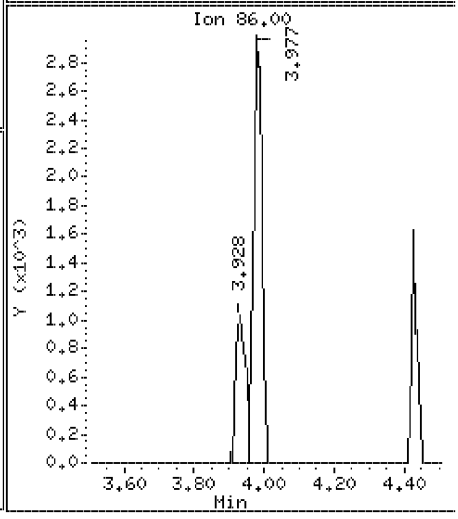












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

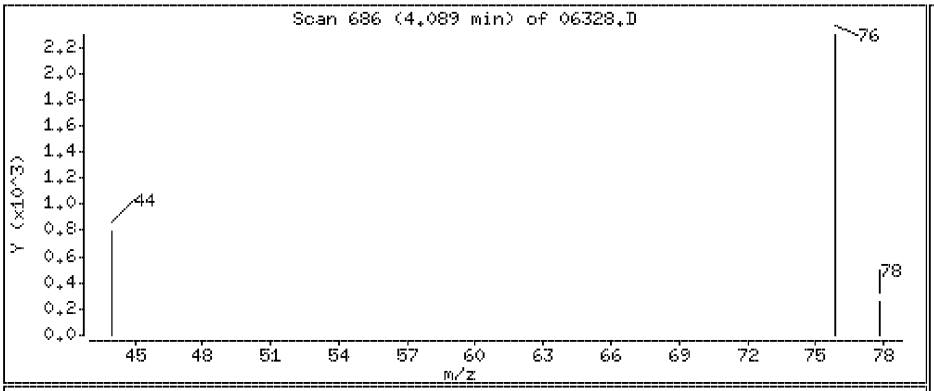
Operator: MJL

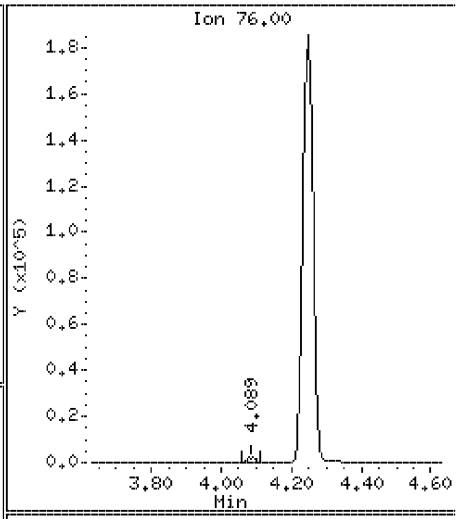
Column phase: J&W DB-5

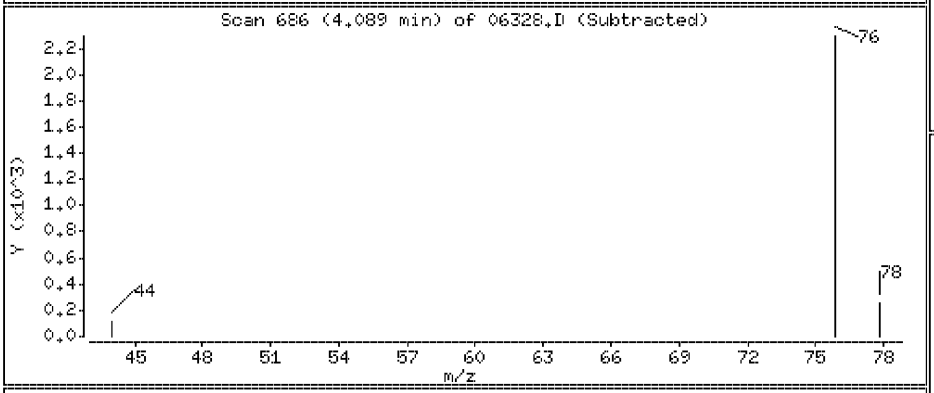
Column diameter: 0.32

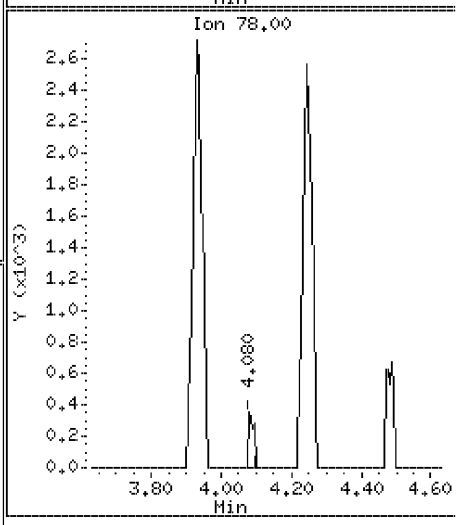
27 Carbon Disulfide

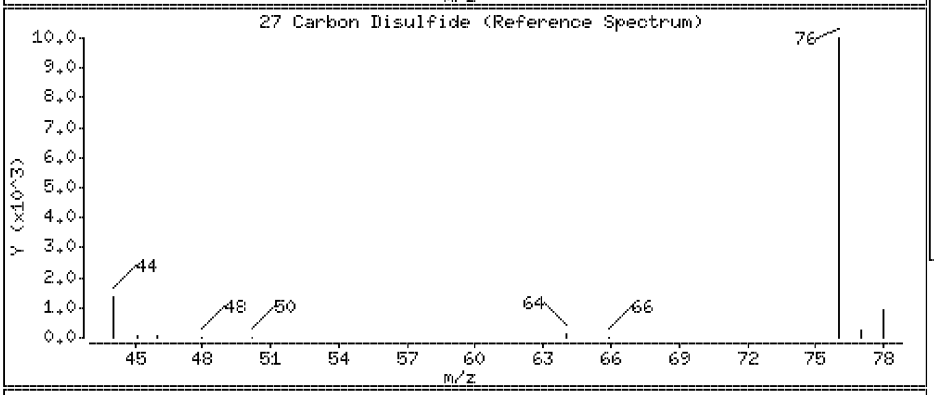
Concentration: 0.208 ppbv

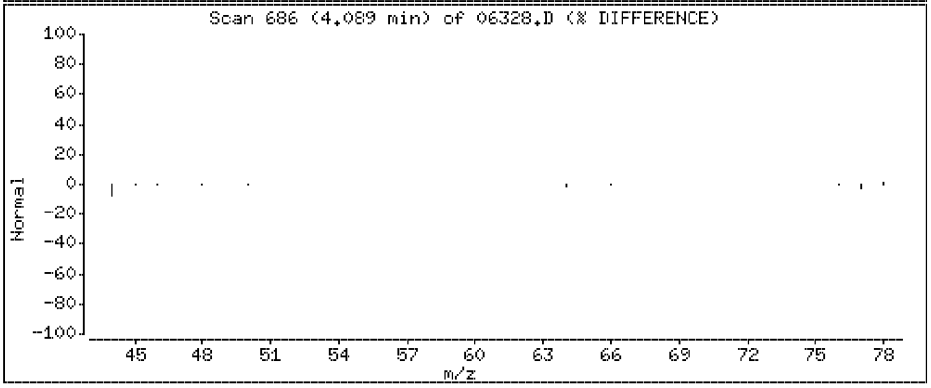












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

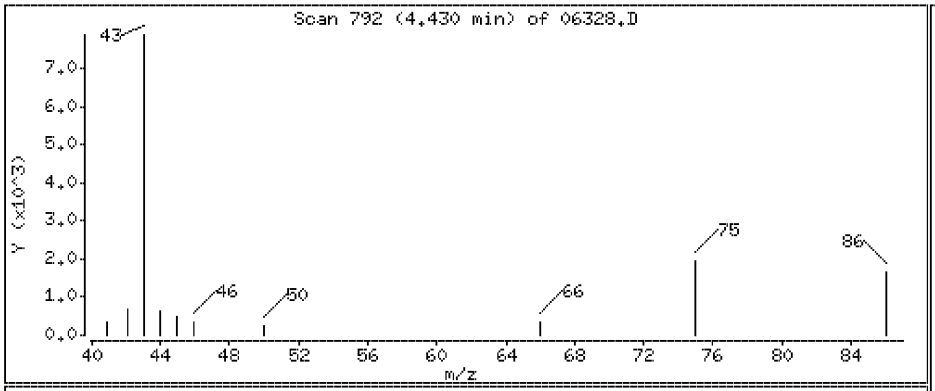
Operator: MJL

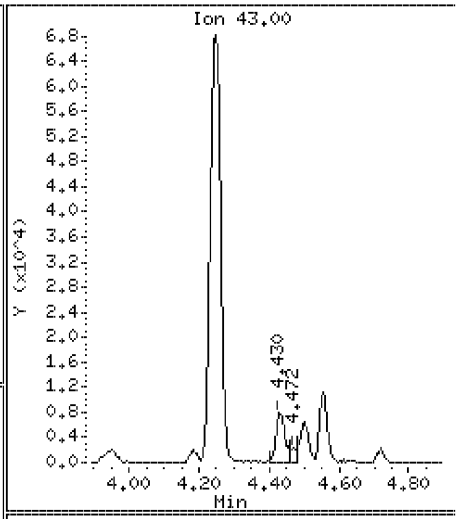
Column phase: J&W DB-5

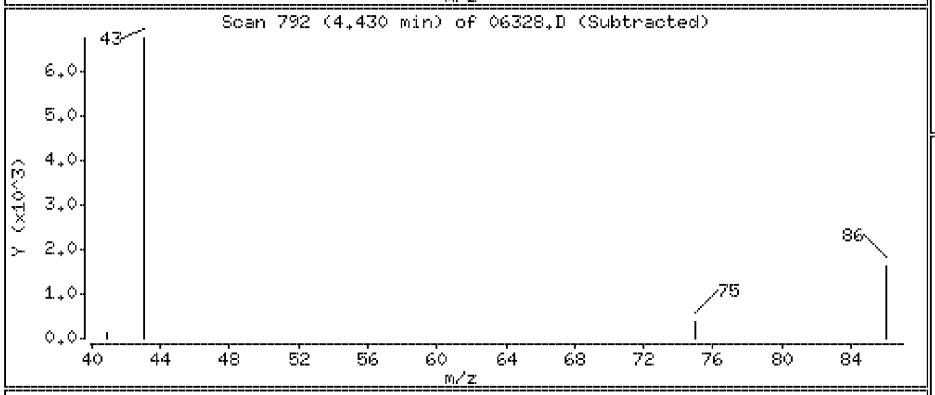
Column diameter: 0.32

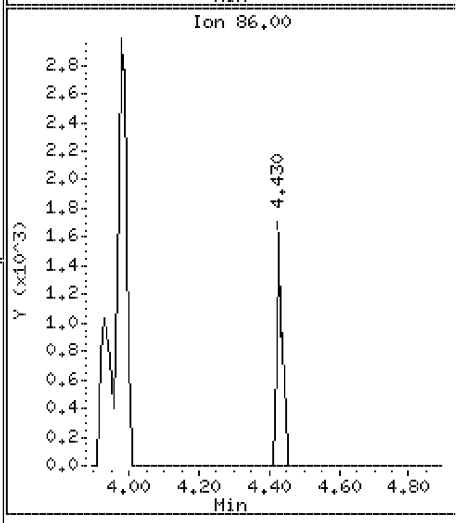
30 Vinyl Acetate

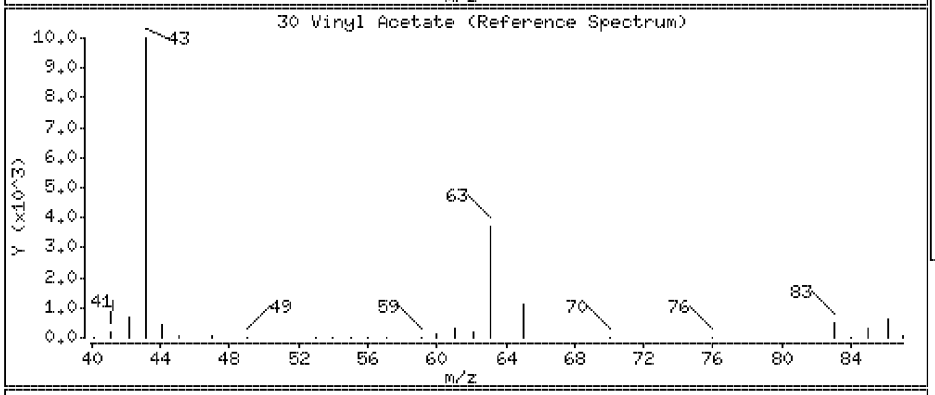
Concentration: 1.03 ppbv

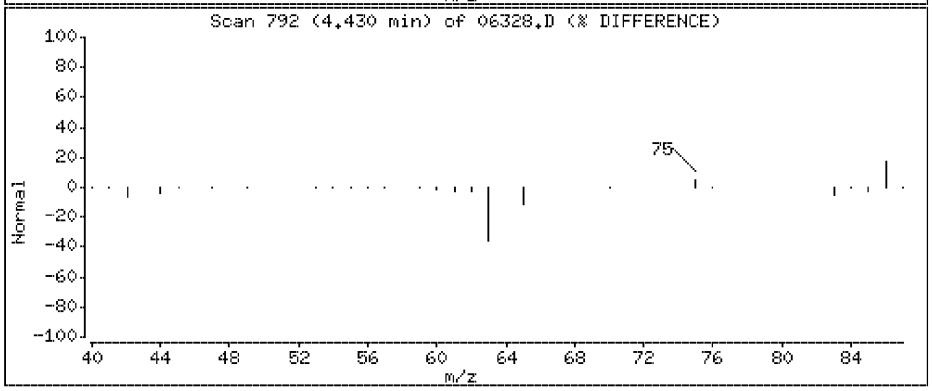












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

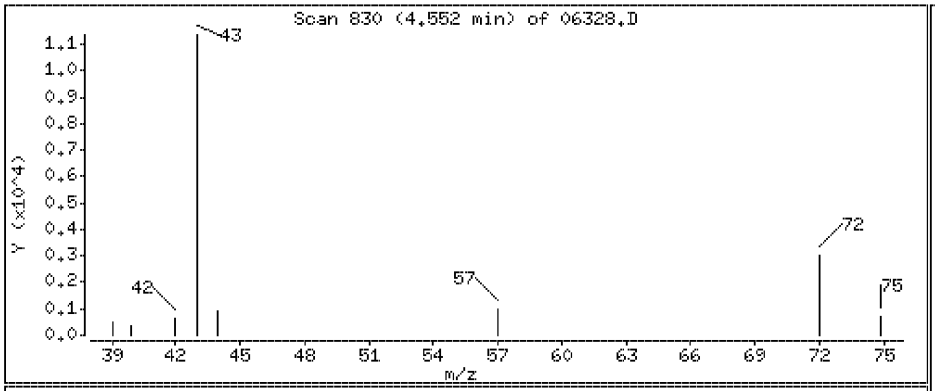
Operator: MJL

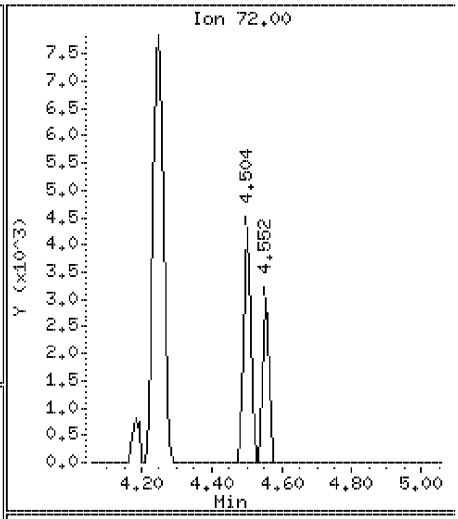
Column phase: J&W DB-5

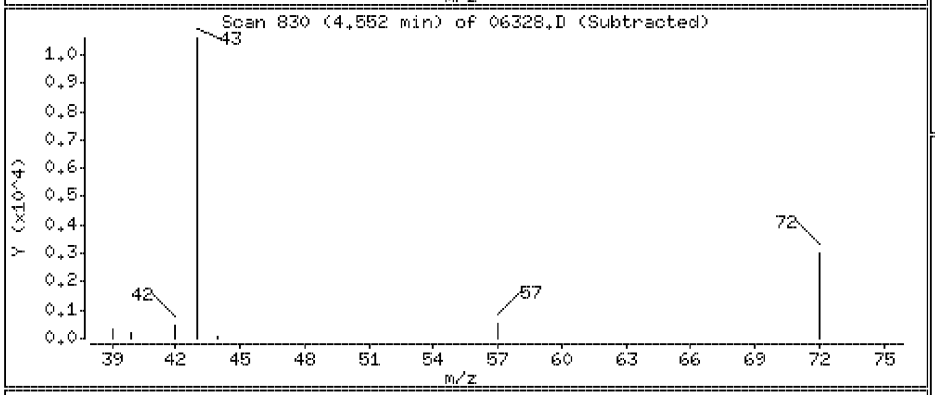
Column diameter: 0.32

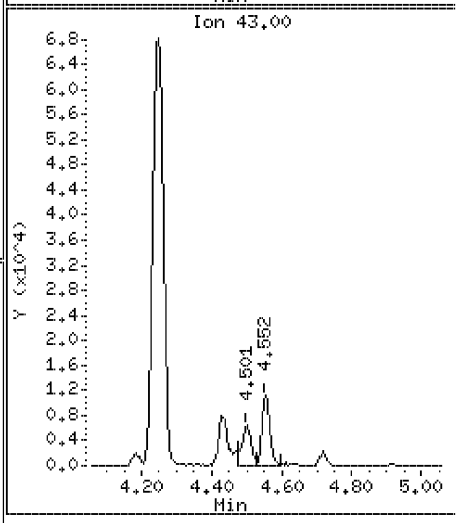
33 Methyl Ethyl Ketone

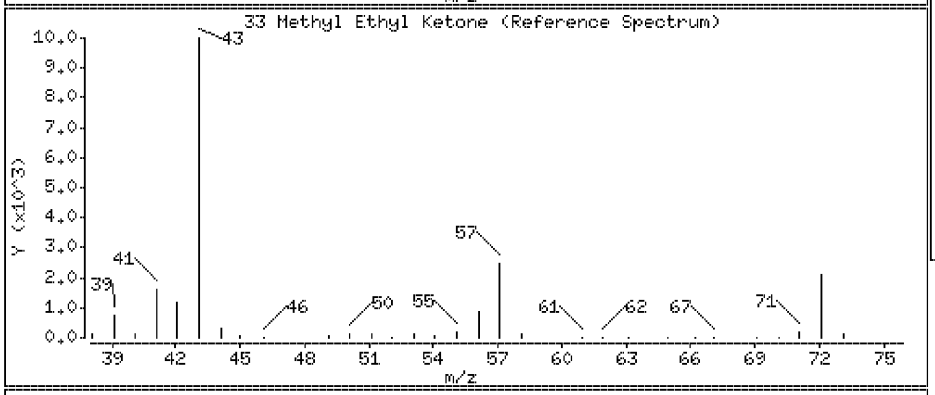
Concentration: 1.22 ppbv

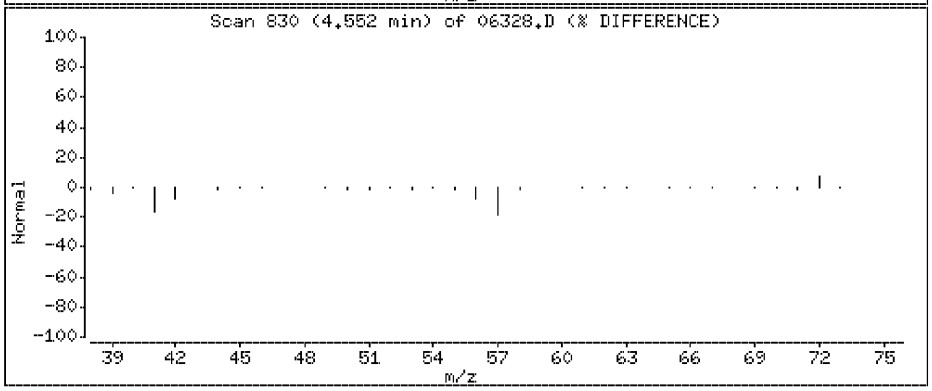












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

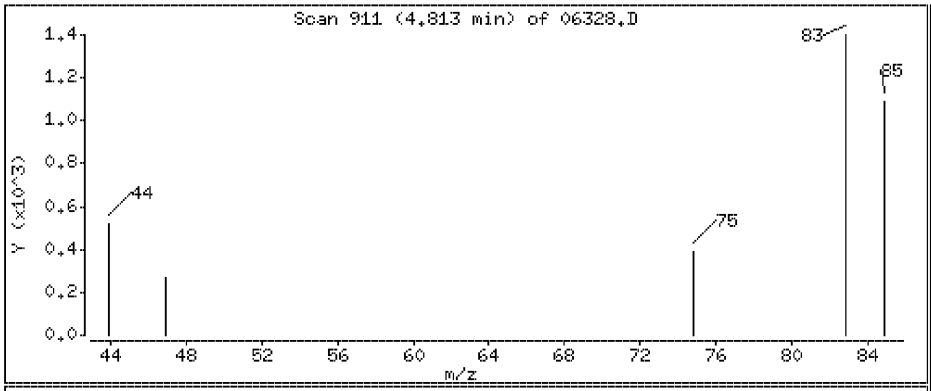
Operator: MJL

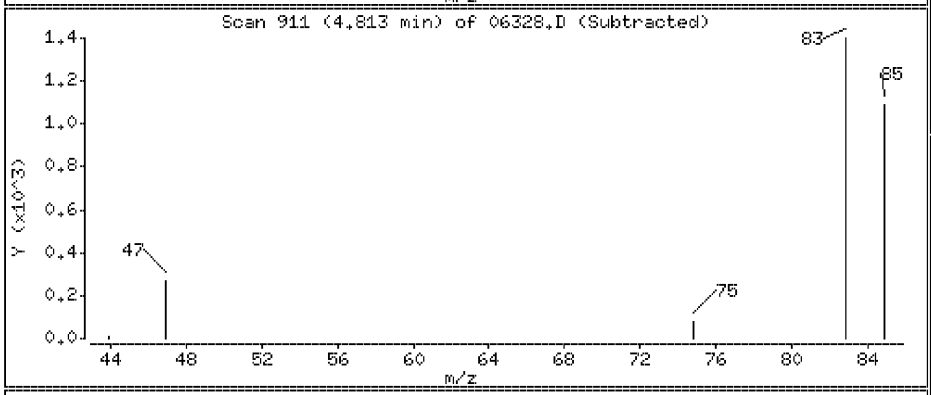
Column phase: J&W DB-5

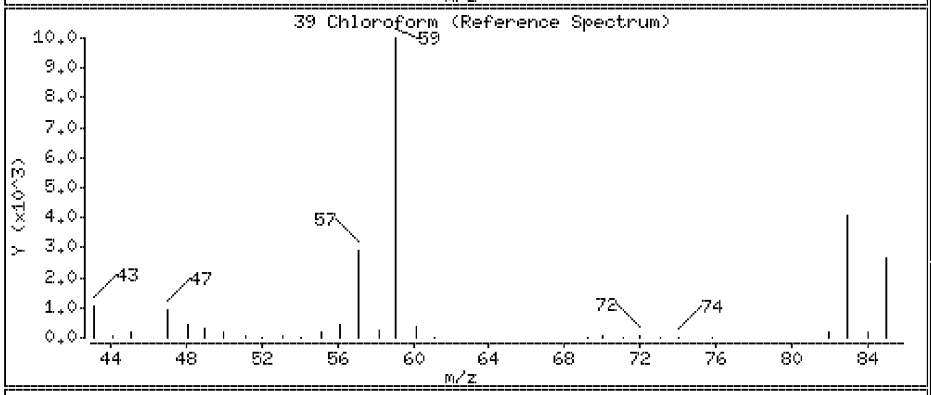
Column diameter: 0.32

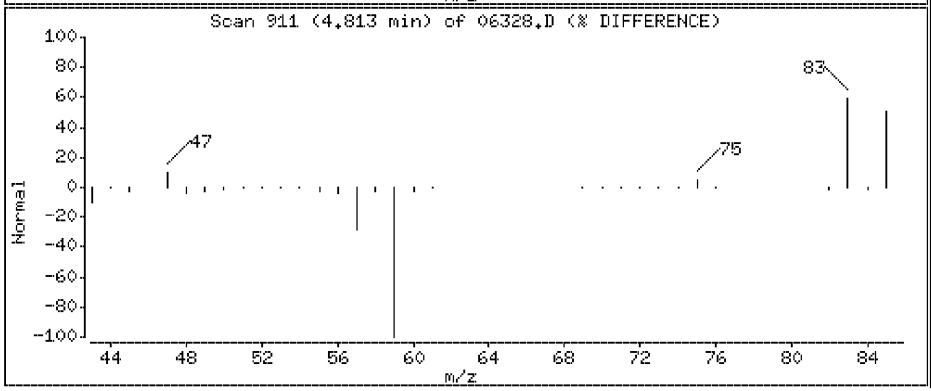
39 Chloroform

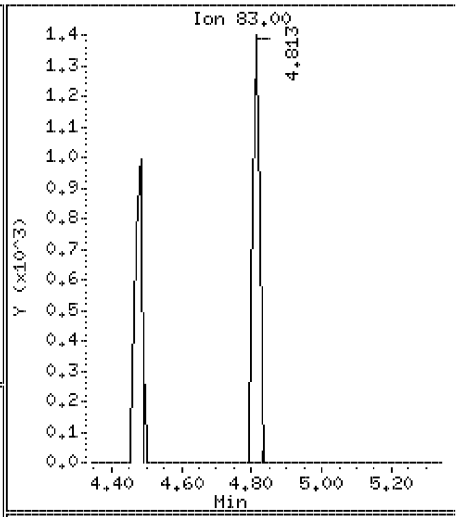
Concentration: 0.125 ppbv

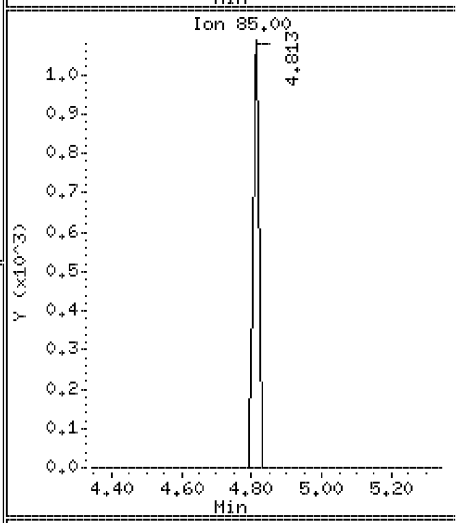


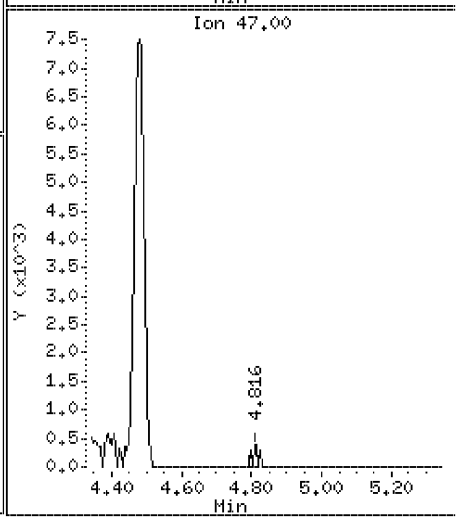












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

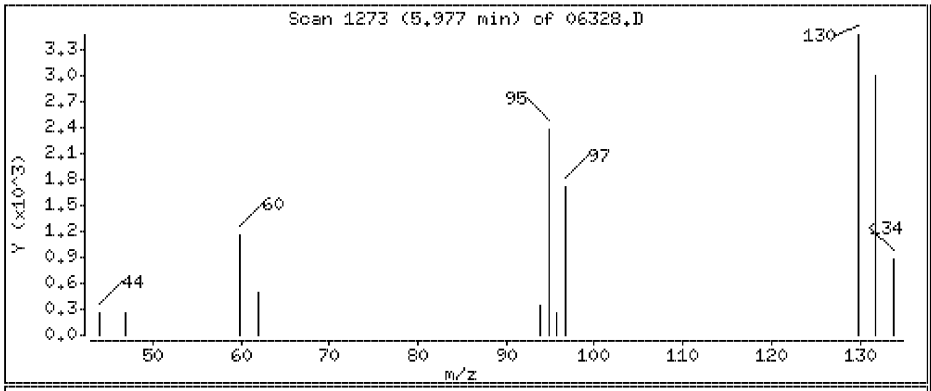
Operator: MJL

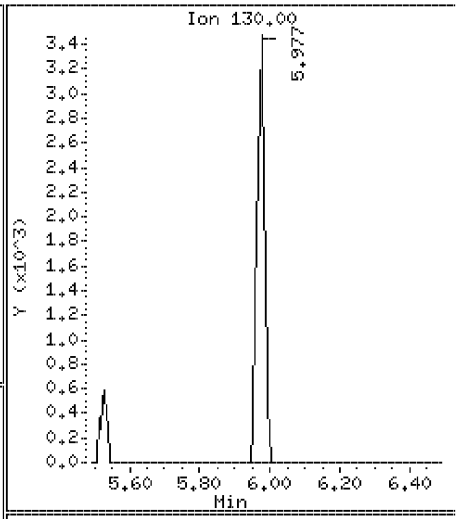
Column phase: J&W DB-5

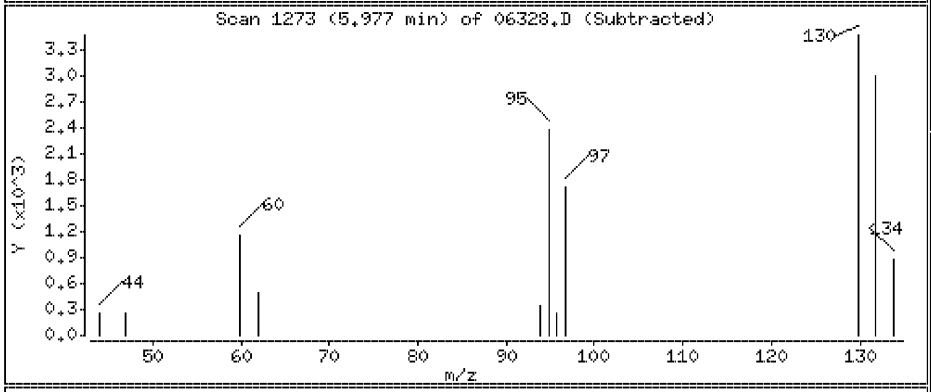
Column diameter: 0.32

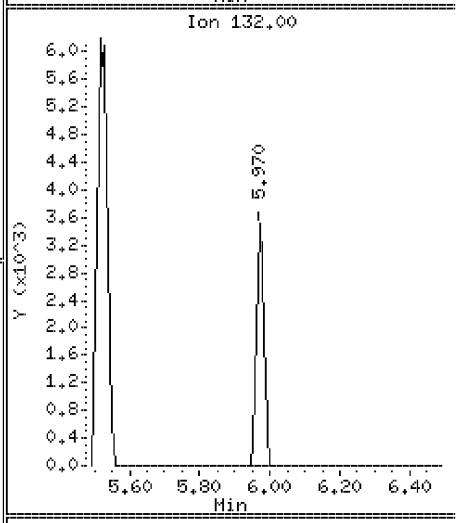
51 Trichloroethene

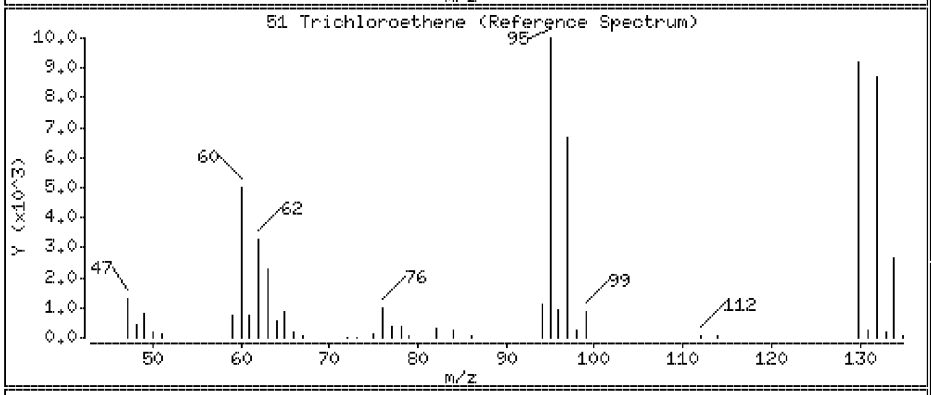
Concentration: 0.421 ppbv

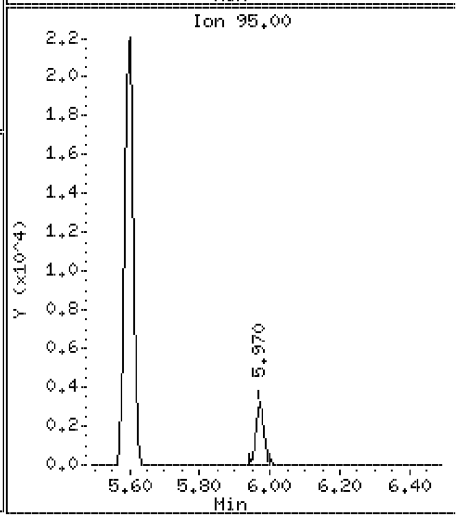


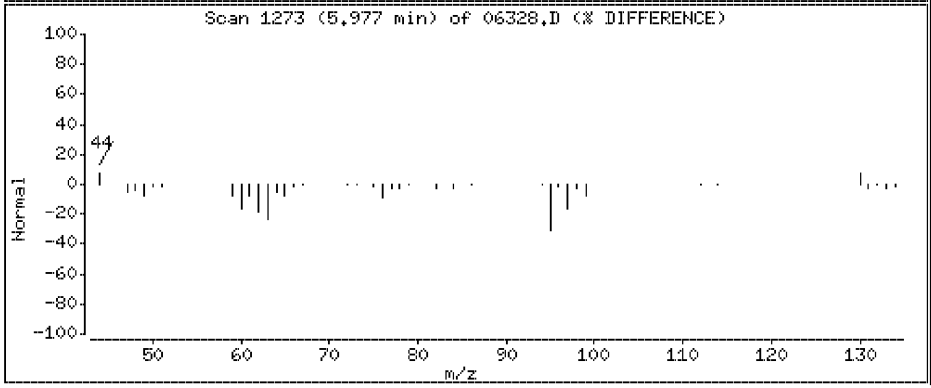












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

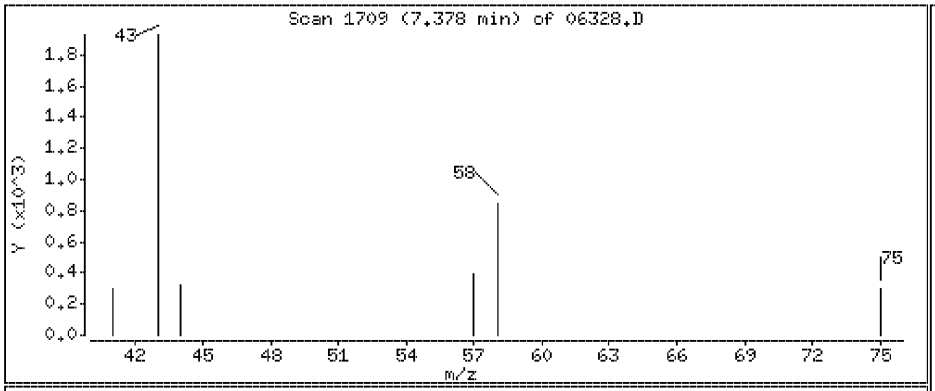
Operator: MJL

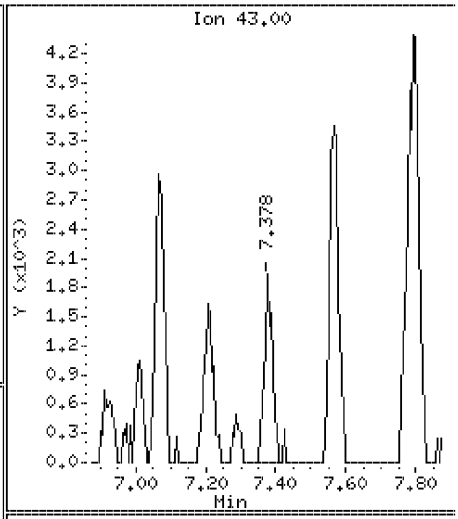
Column phase: J&W DB-5

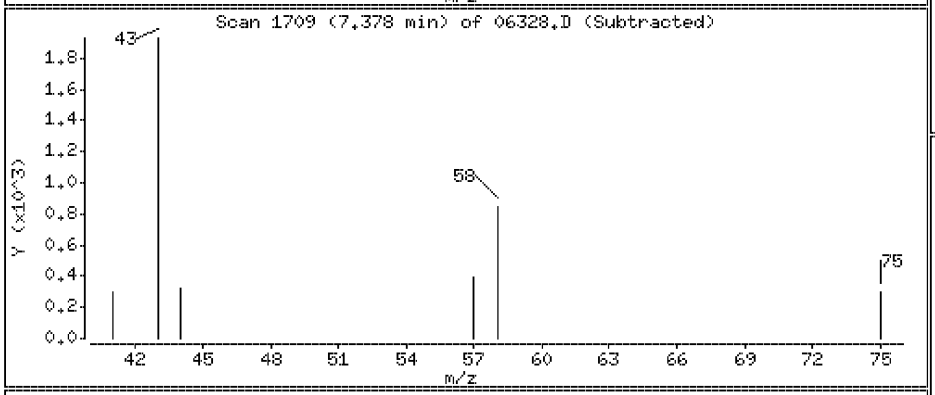
Column diameter: 0.32

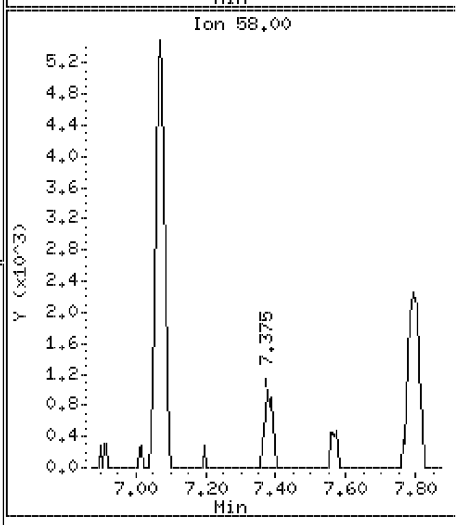
62 Methyl Butyl Ketone

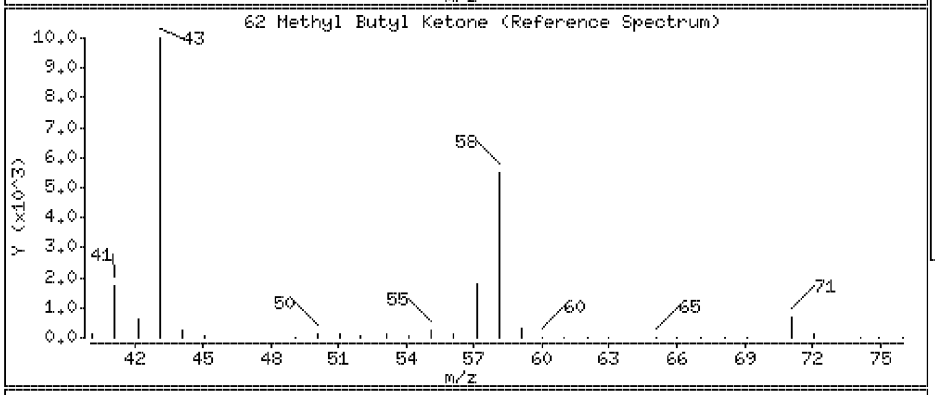
Concentration: 0.200 ppbv

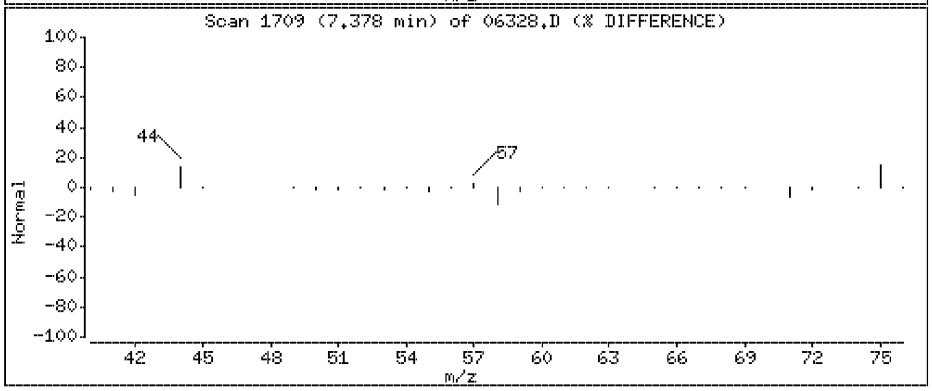












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

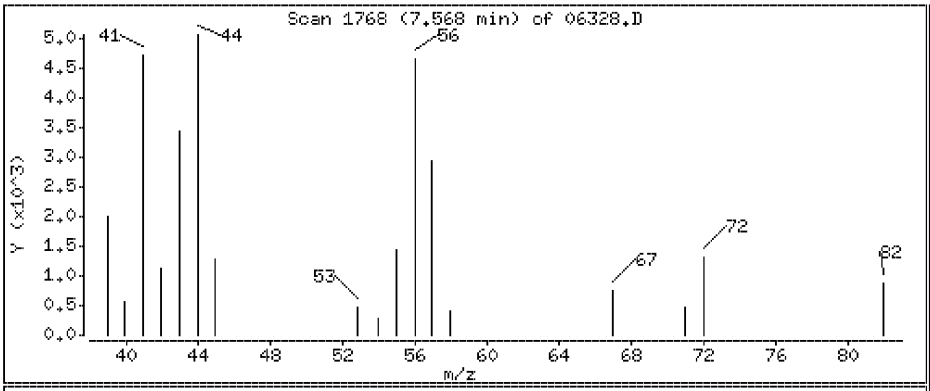
Operator: MJL

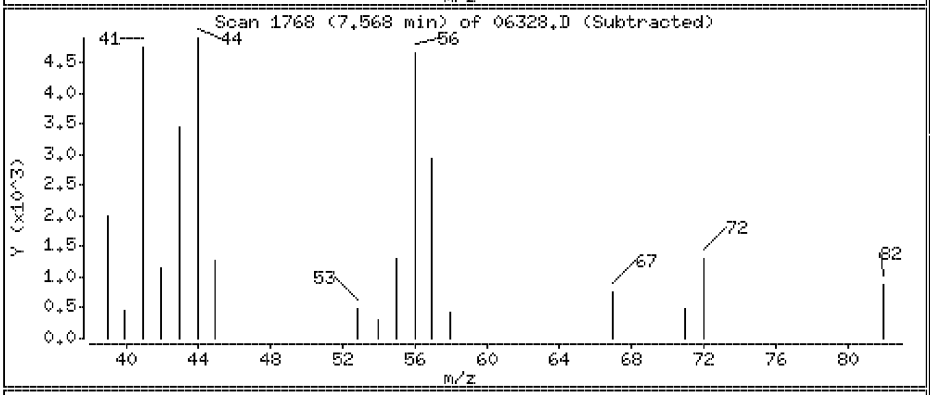
Column phase: J&W DB-5

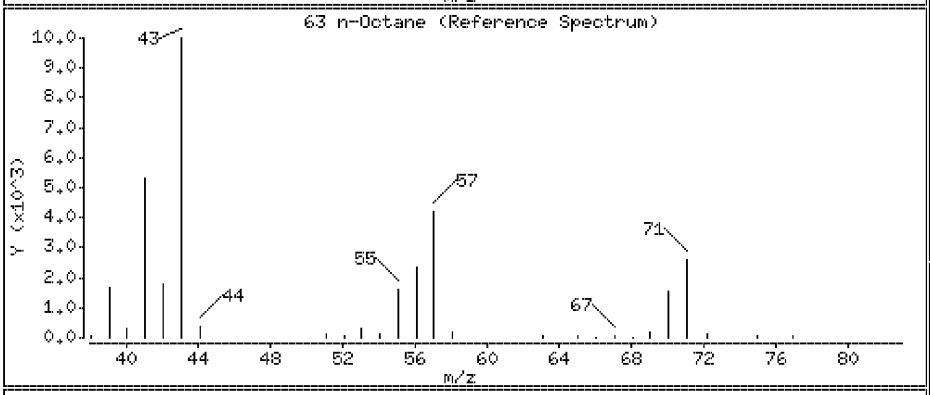
Column diameter: 0.32

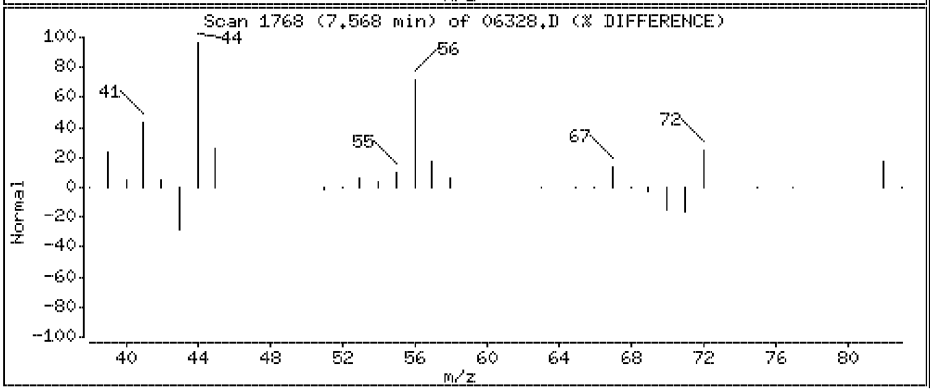
63 n-Octane

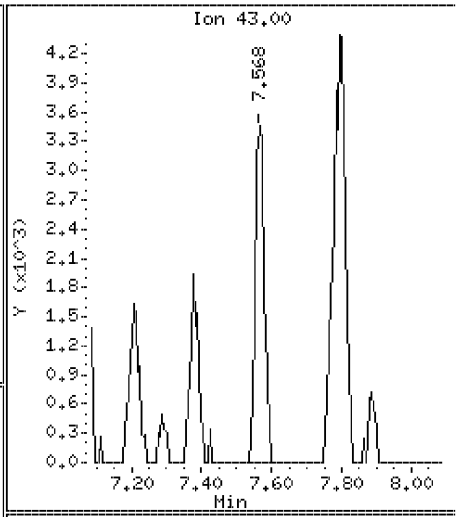
Concentration: 0.361 ppbv

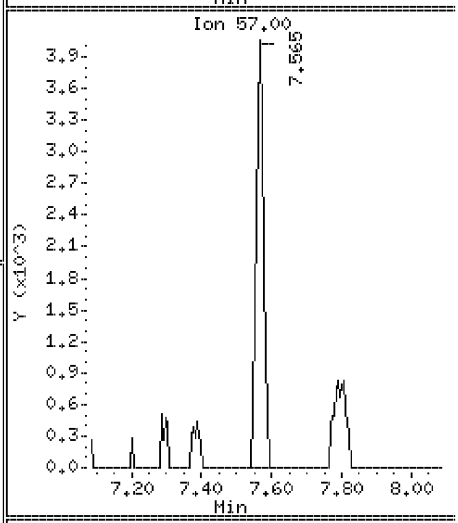


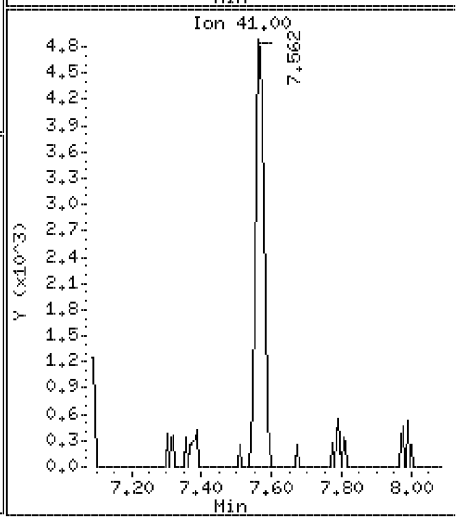












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

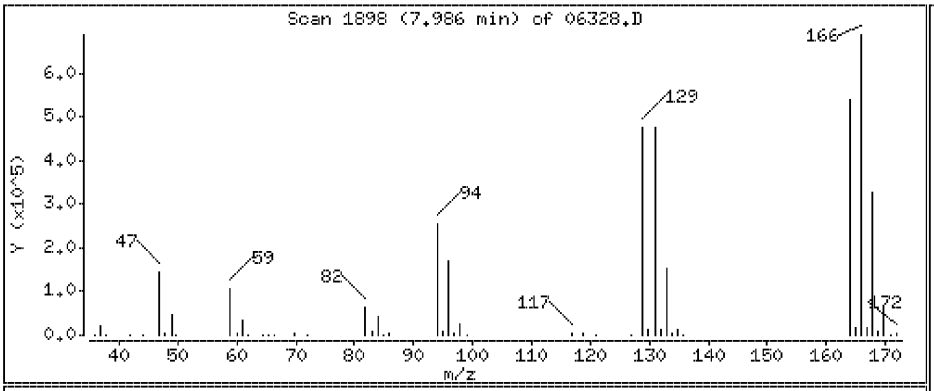
Operator: MJL

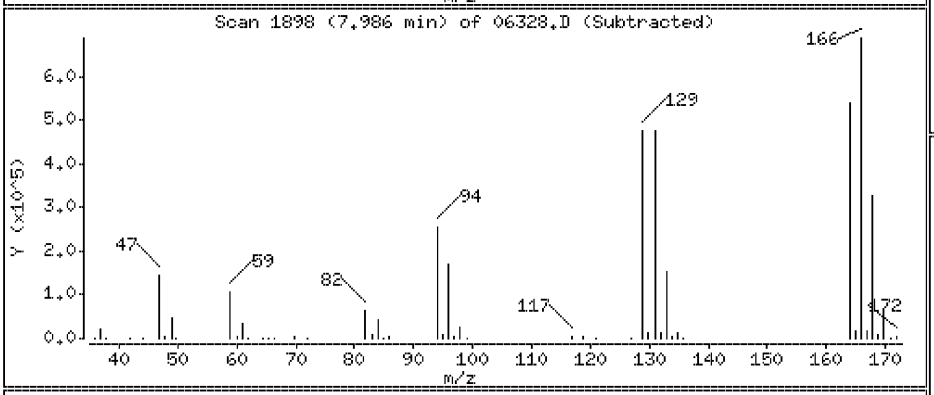
Column phase: J&W DB-5

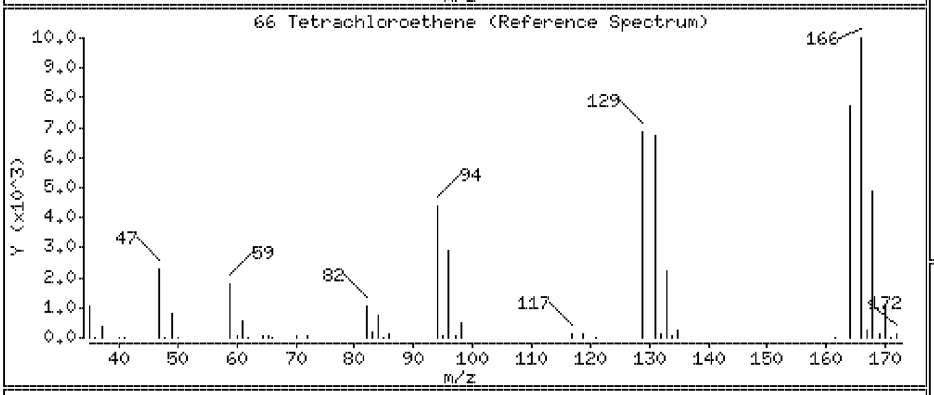
Column diameter: 0.32

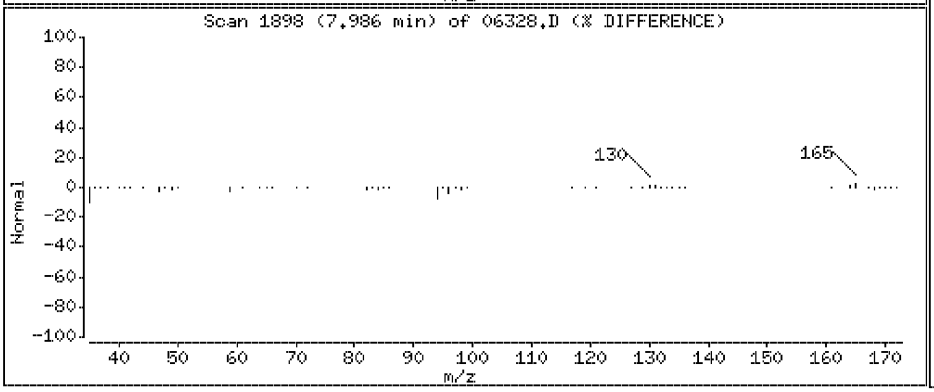
66 Tetrachloroethene

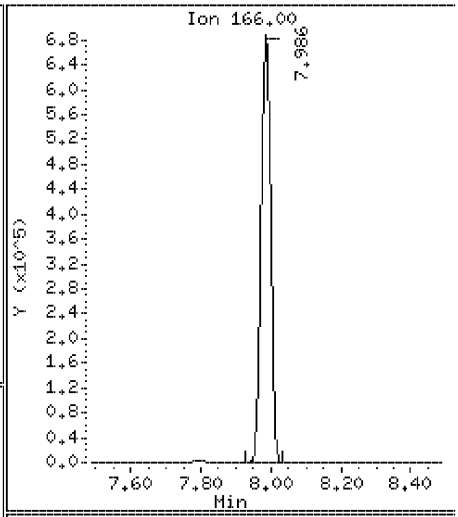
Concentration: 77.4 ppbv

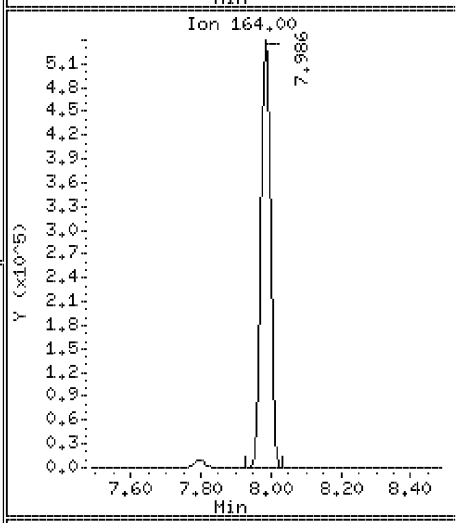


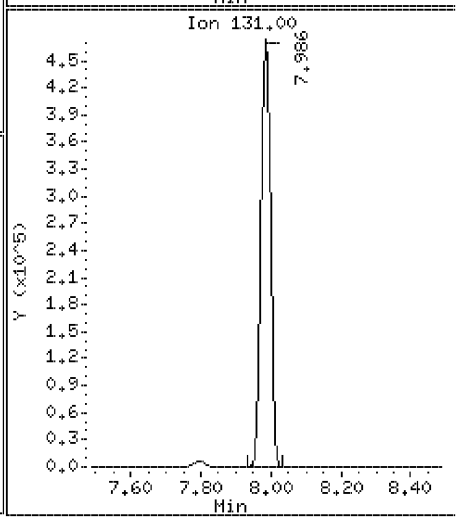












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

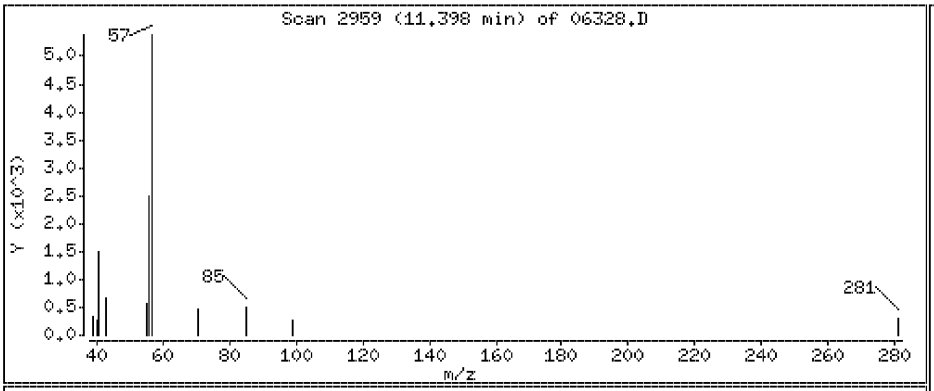
Operator: MJL

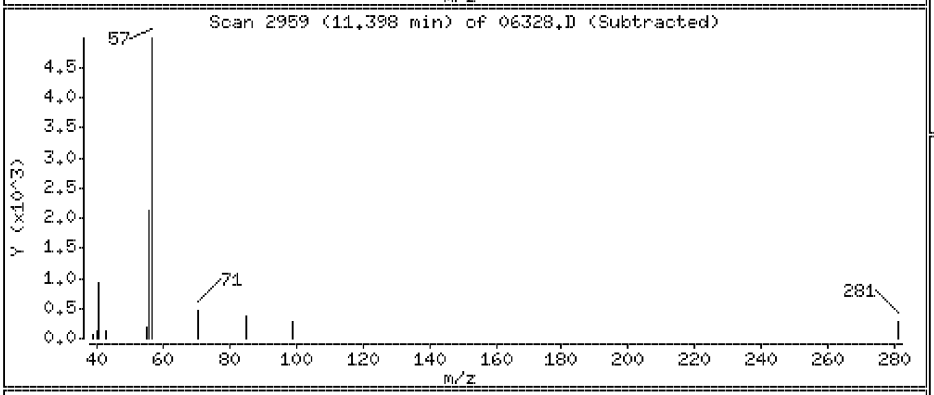
Column phase: J&W DB-5

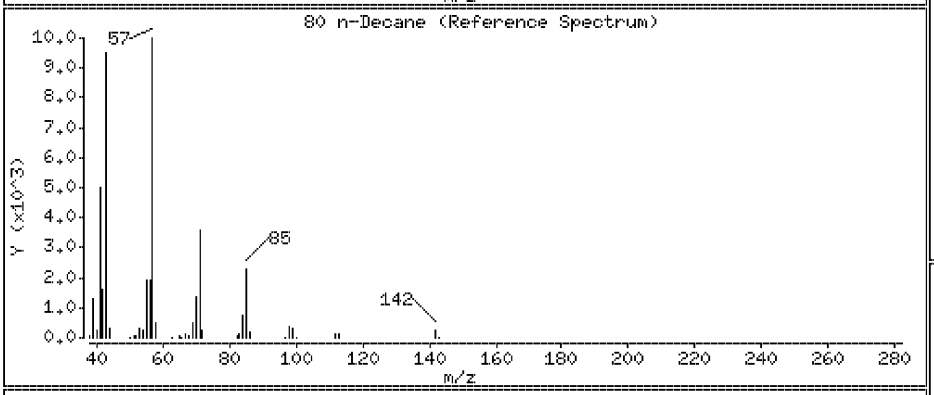
Column diameter: 0.32

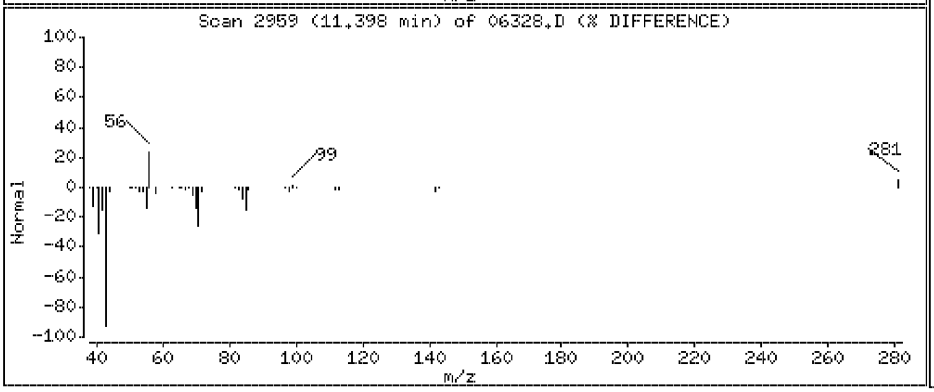
80 n-Decane

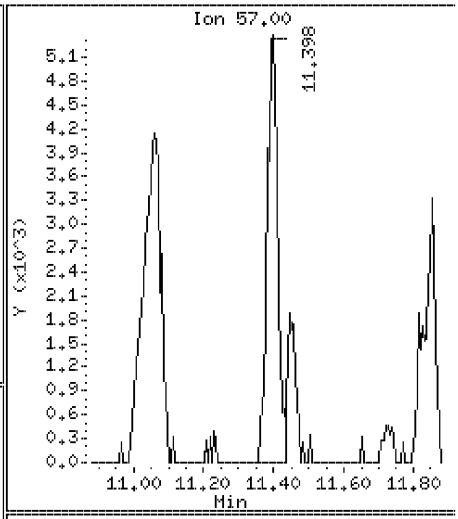
Concentration: 1.04 ppbv

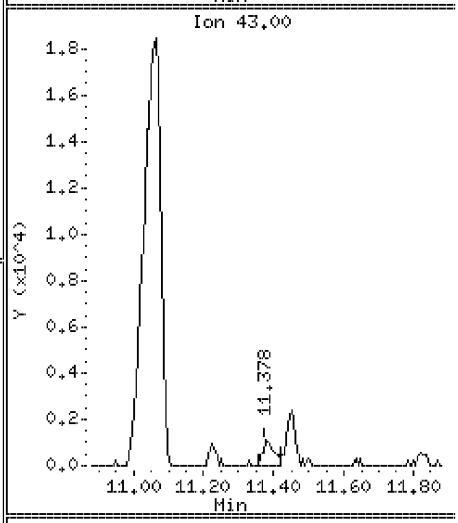


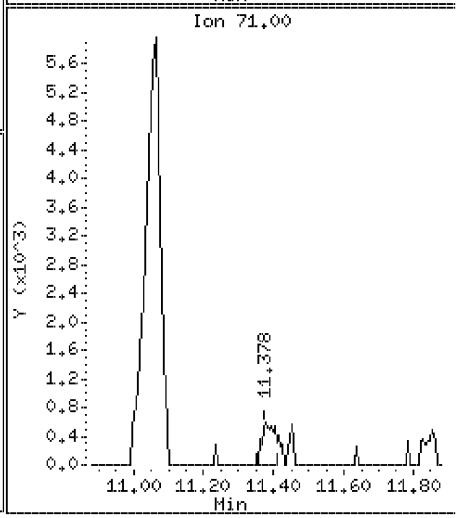












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

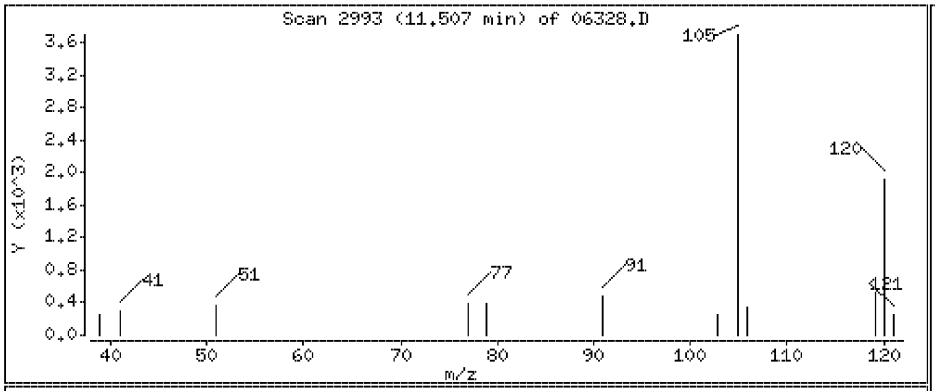
Operator: MJL

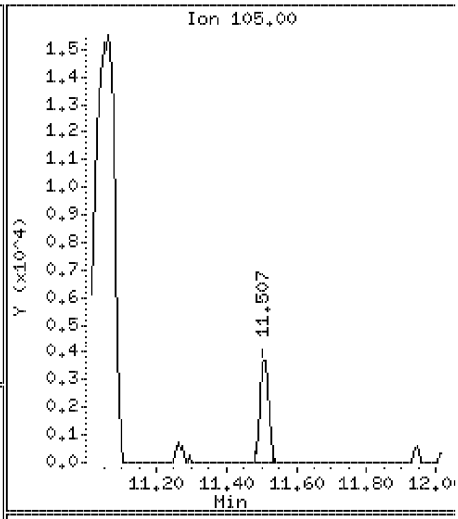
Column phase: J&W DB-5

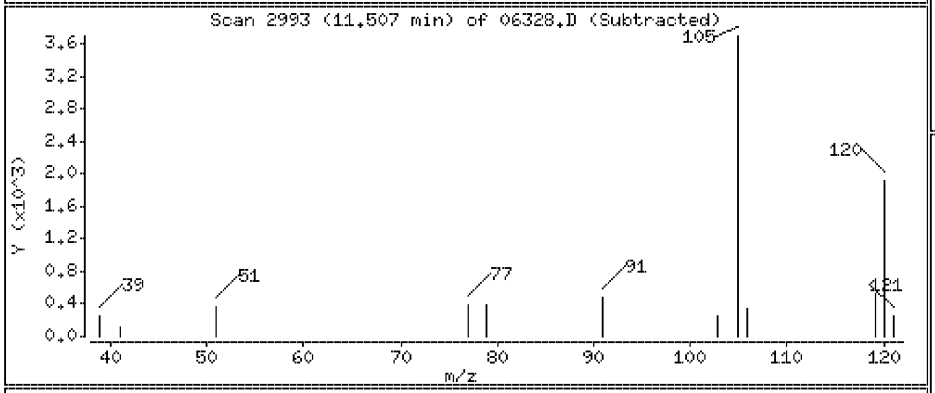
Column diameter: 0.32

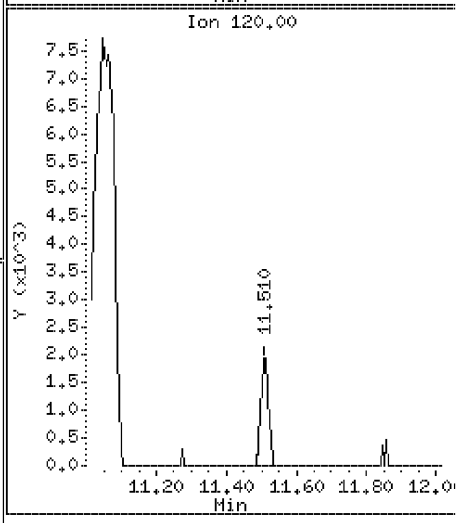
82 1,2,4-Trimethylbenzene

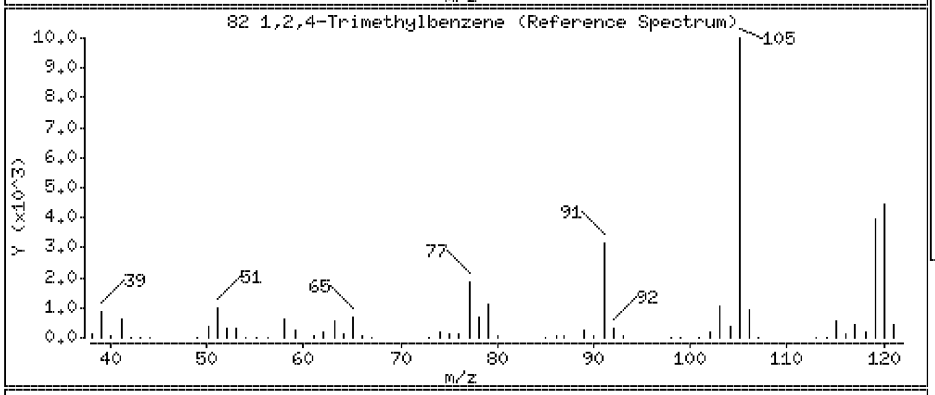
Concentration: 0.221 ppbv

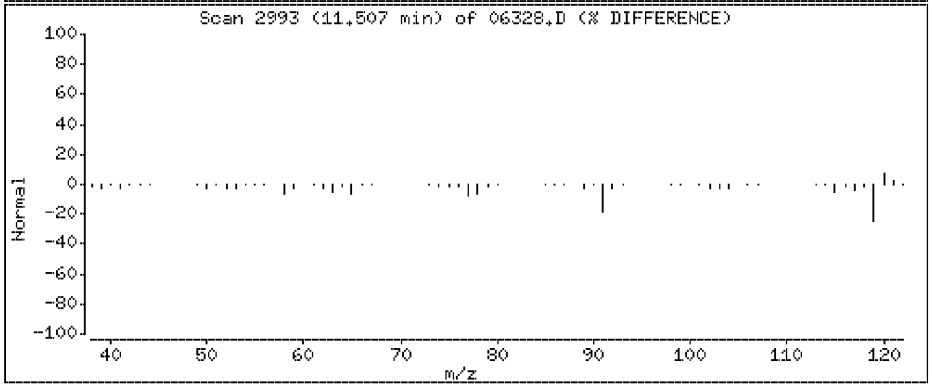












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06328.D

Date : 04-MAR-2017 20:43

Client ID:

Instrument: 10airB.i

Sample Info:

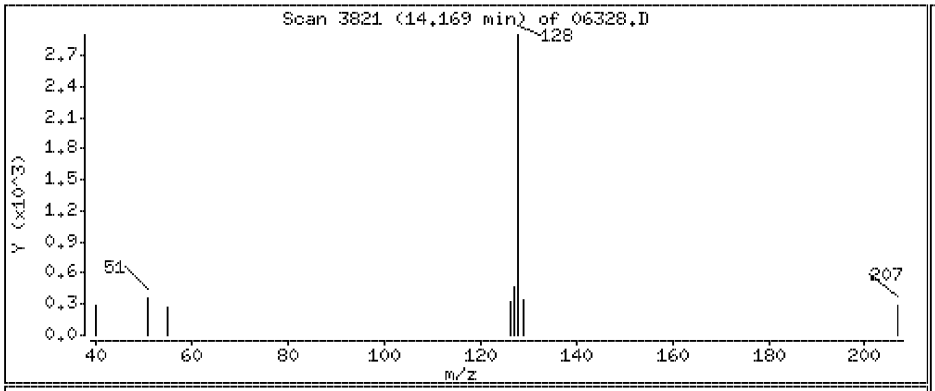
Operator: MJL

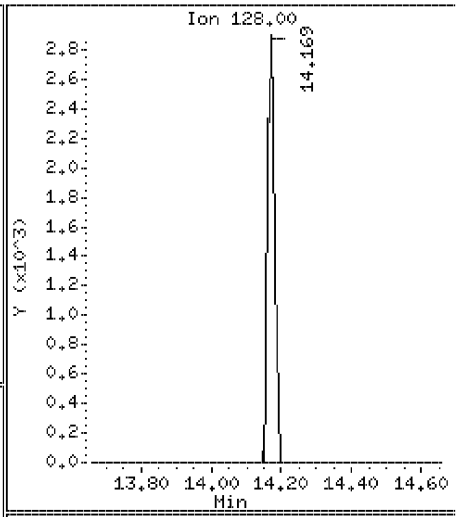
Column phase: J&W DB-5

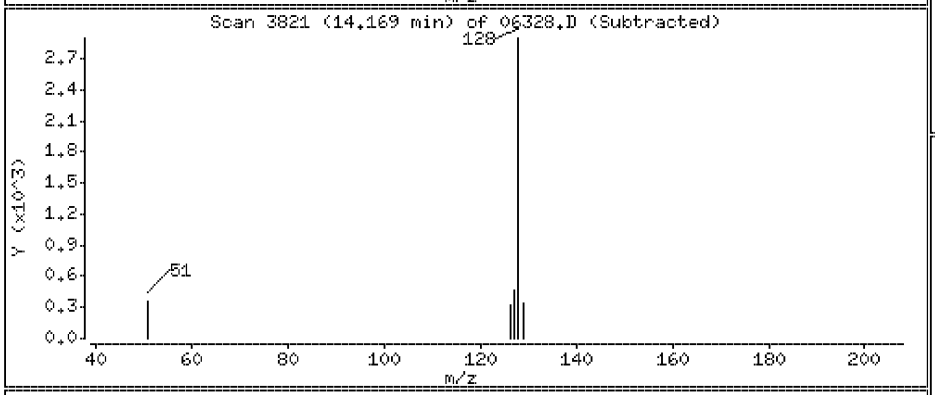
Column diameter: 0.32

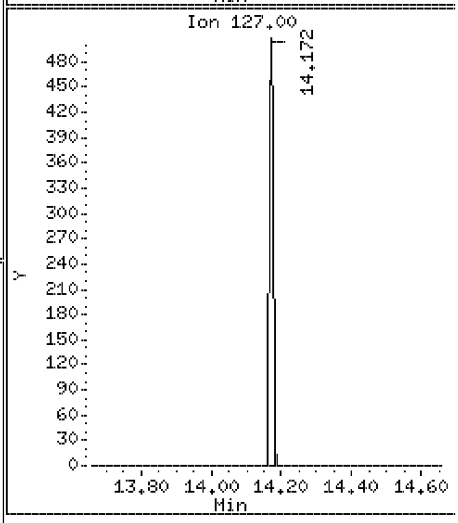
94 Naphthalene

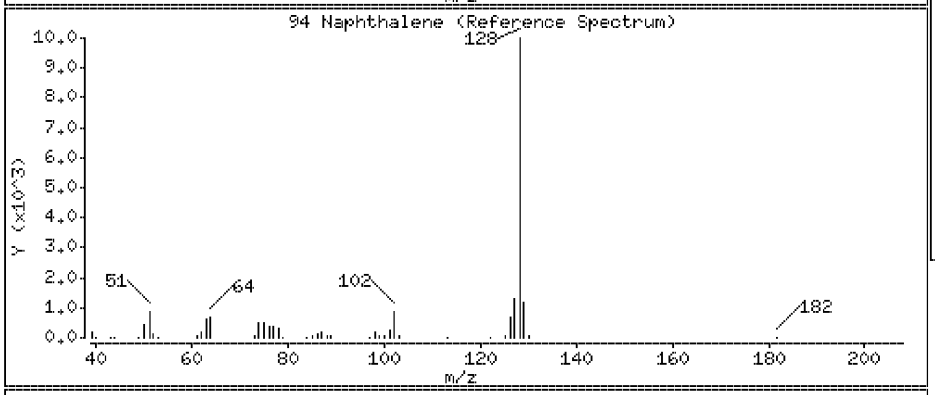
Concentration: 0.818 ppbv

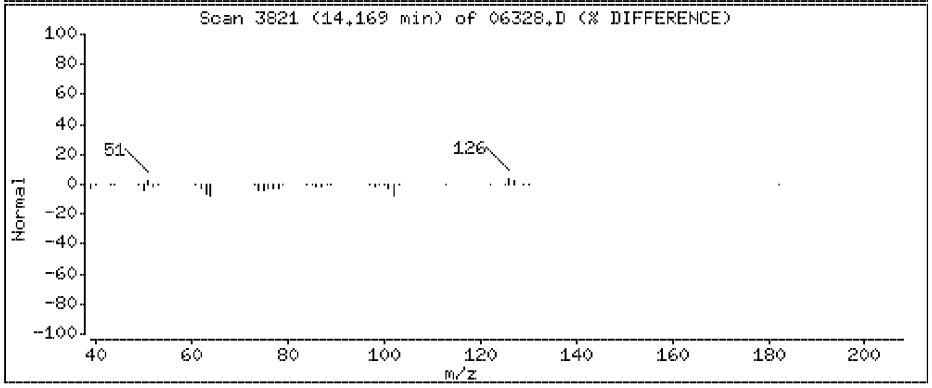






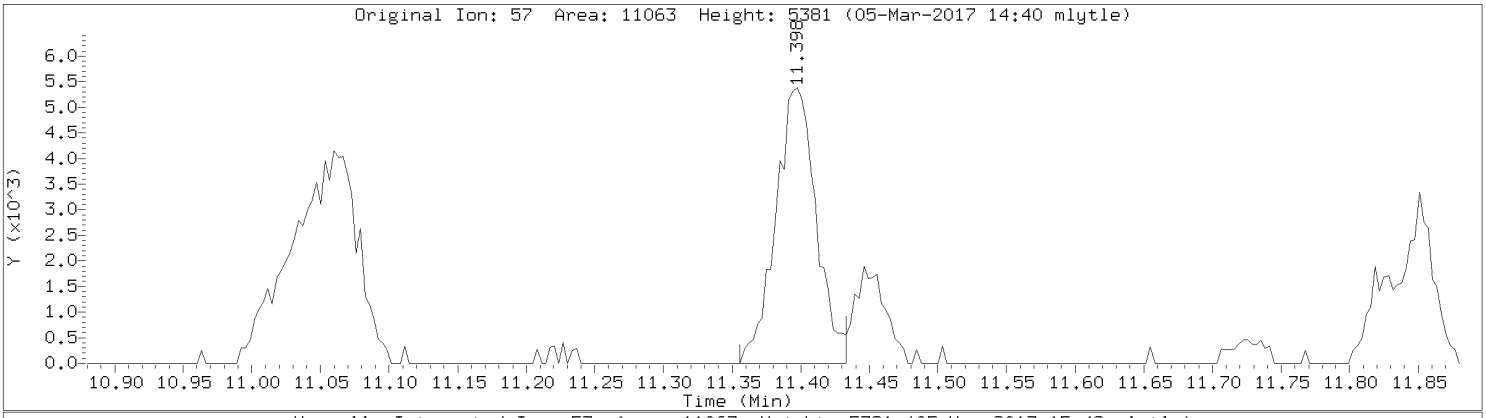


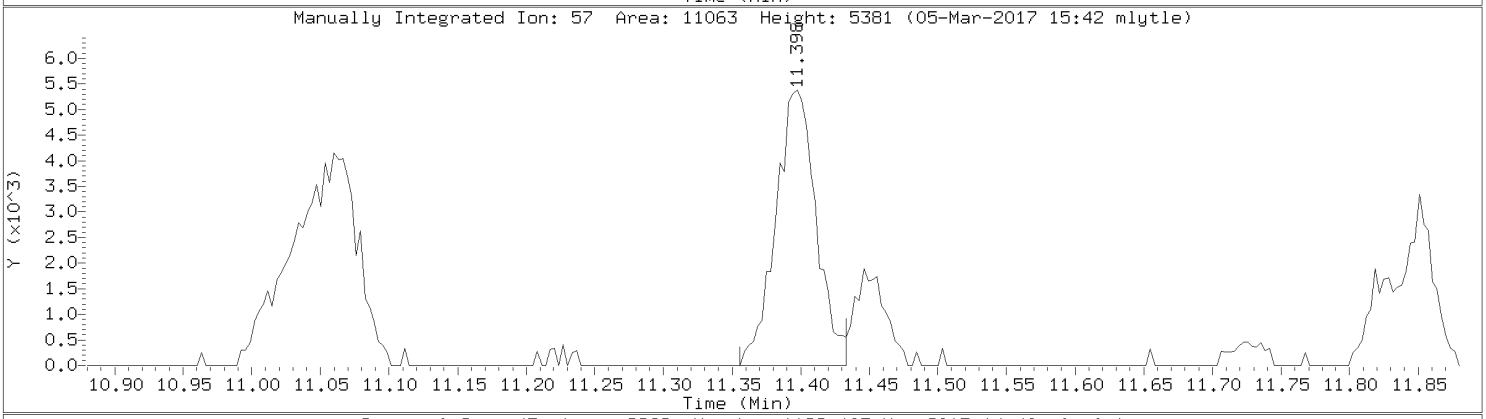


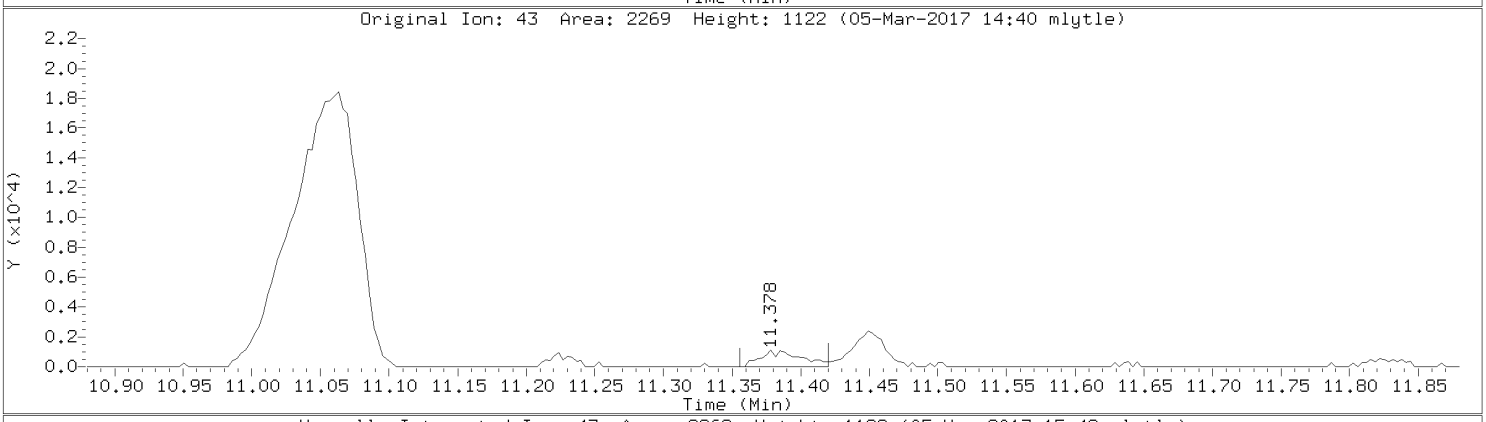


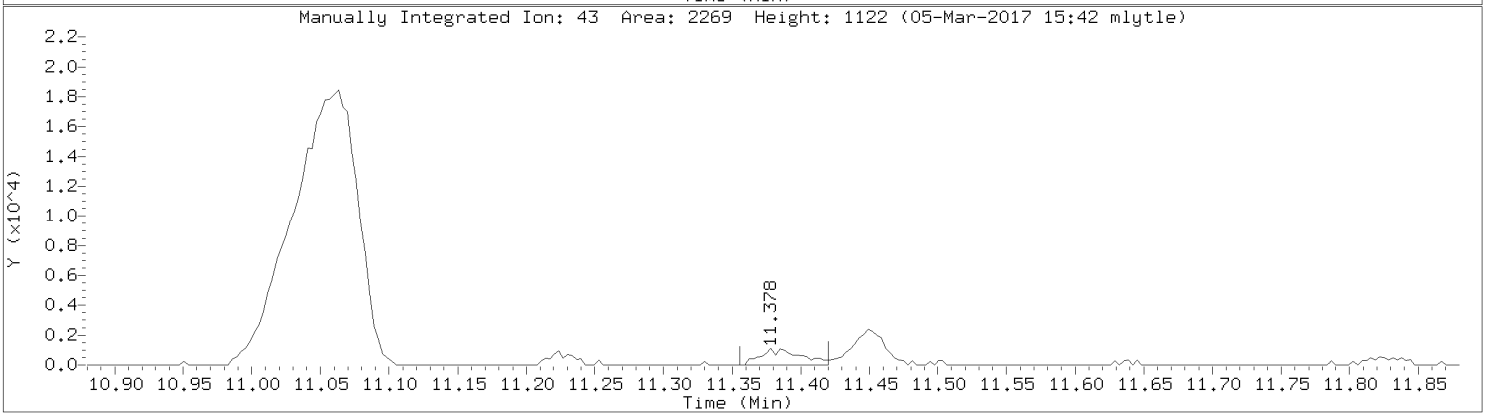
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06328.D
Injection Date: 04-MAR-2017 20:43
Instrument: 10airB.i
Lab Sample ID: 10379458002

Compound: n-Decane
CAS Number: 124-18-5

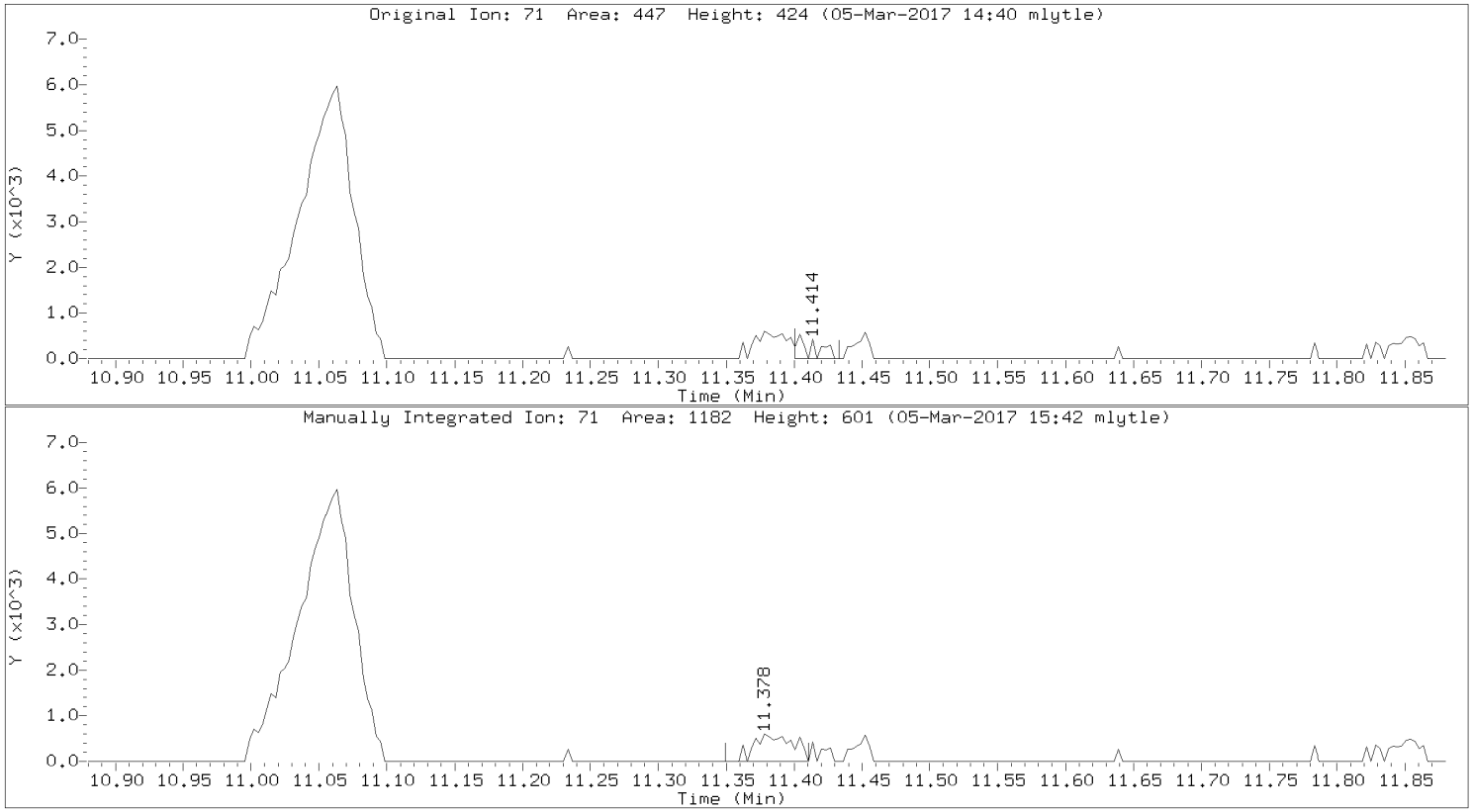








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06328.D
Injection Date: 04-MAR-2017 20:43
Instrument: 10airB.i
Lab Sample ID: 10379458002



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-E16_20170215 **Lab ID: 10379458003** Collected: 02/15/17 15:58 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.5**	ug/m3	4.6	1.6	1.92		03/04/17 21:16	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/04/17 21:16	107-05-1	
Benzene	**1.0**	ug/m3	0.62	0.23	1.92		03/04/17 21:16	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/04/17 21:16	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/04/17 21:16	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/04/17 21:16	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/04/17 21:16	106-99-0	
2-Butanone (MEK)	**3.6J**	ug/m3	5.8	0.44	1.92		03/04/17 21:16	78-93-3	
Carbon disulfide	**0.91J**	ug/m3	1.2	0.19	1.92		03/04/17 21:16	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/04/17 21:16	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/04/17 21:16	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/04/17 21:16	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/04/17 21:16	75-00-3	
Chloroform	**2.3**	ug/m3	0.95	0.36	1.92		03/04/17 21:16	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/04/17 21:16	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/04/17 21:16	76-15-3	
Cyclohexane	**1.0J**	ug/m3	1.3	0.61	1.92		03/04/17 21:16	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/04/17 21:16	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/04/17 21:16	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/04/17 21:16	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/04/17 21:16	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/04/17 21:16	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/04/17 21:16	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.9	0.92	1.92		03/04/17 21:16	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/04/17 21:16	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/04/17 21:16	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 21:16	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/04/17 21:16	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/04/17 21:16	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/04/17 21:16	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/04/17 21:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/04/17 21:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/04/17 21:16	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/04/17 21:16	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/04/17 21:16	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/04/17 21:16	100-41-4	
4-Ethyltoluene	**<0.36**	ug/m3	1.9	0.36	1.92		03/04/17 21:16	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/04/17 21:16	87-68-3	
n-Hexane	**1.7**	ug/m3	1.4	0.69	1.92		03/04/17 21:16	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/04/17 21:16	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/04/17 21:16	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/04/17 21:16	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 21:16	108-87-2	
Methylene Chloride	**7.9**	ug/m3	6.8	1.0	1.92		03/04/17 21:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/04/17 21:16	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/04/17 21:16	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06428.D
Report Date: 06-Mar-2017 14:13

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06428.D
Lab Smp Id: 10379458003
Inj Date : 05-MAR-2017 20:36
Operator : CH1 Inst ID: 10air7.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 28
Dil Factor: 25.73000
Integrator: HP RTE Compound Sublist: PCE.sub
Target Version: 4.14
Processing Host: 10MNAIRRC91

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	25.730	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
$	32 Hexane-d14(S)	66	3.516	3.520	(0.782)	219445	12.3520	12.4
*	47 1,4-Difluorobenzene	114	4.494	4.504	(1.000)	650899	10.0000	
$	59 Toluene-d8 (S)	98	5.828	5.835	(1.297)	543916	9.95465	9.95
	66 Tetrachloroethene	166	6.677	6.683	(0.914)	148763	3.63112	93.4
*	67 Chlorobenzene - d5	117	7.304	7.310	(1.000)	413202	10.0000	
$	85 1,4-dichlorobenzene-d4 (S)	150	10.481	10.487	(1.435)	150430	8.89802	8.90

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06428.D
Report Date: 06-Mar-2017 14:13

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06428.D
Lab Smp Id: 10379458003
Analysis Type: VOA
Quant Type: ISTD
Operator: CH1
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info: 27836

Calibration Date: 05-MAR-2017
Calibration Time: 10:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

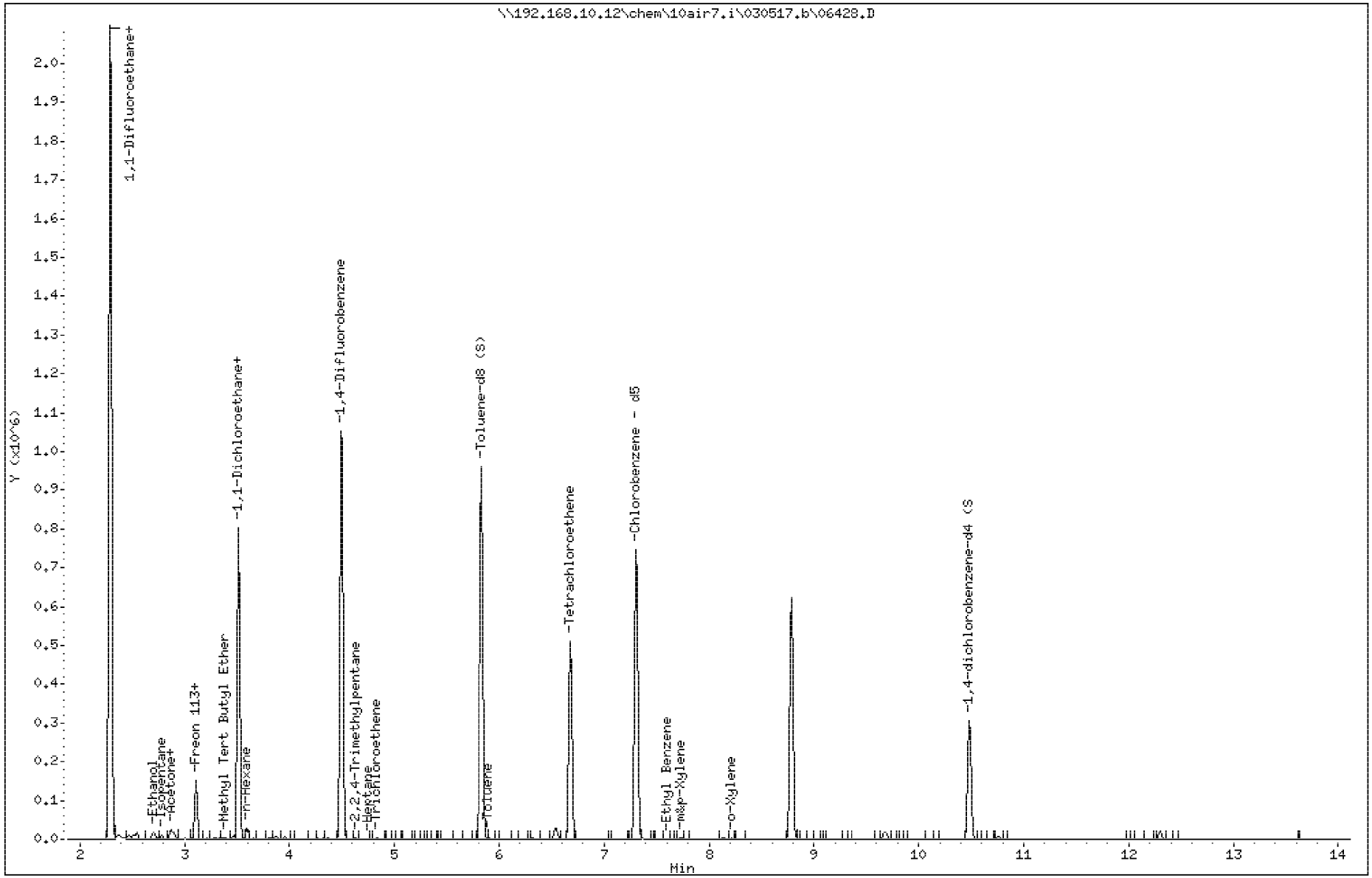
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	650899	-22.14
67 Chlorobenzene - d	539522	323713	755331	413202	-23.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.50	4.17	4.83	4.49	-0.21
67 Chlorobenzene - d	7.31	6.98	7.64	7.30	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06428.D
Date : 05-MAR-2017 20:36
Client ID:
Sample Info:

Instrument: 10air7.i
Operator: CH1
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06428.D

Date : 05-MAR-2017 20:36

Client ID:

Instrument: 10air7.i

Sample Info:

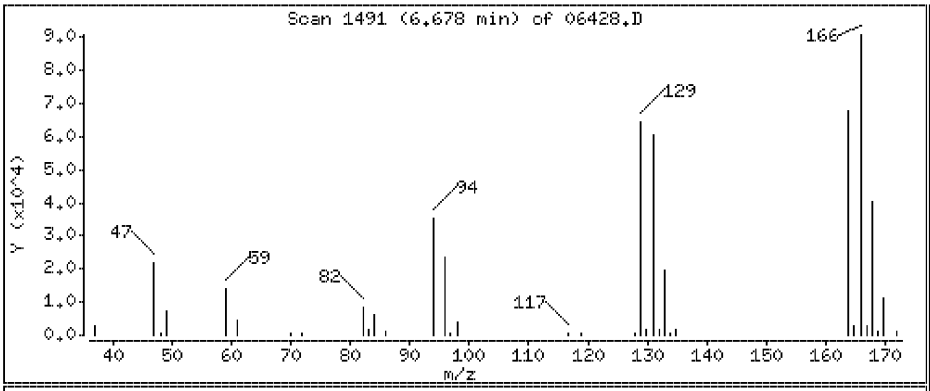
Operator: CH1

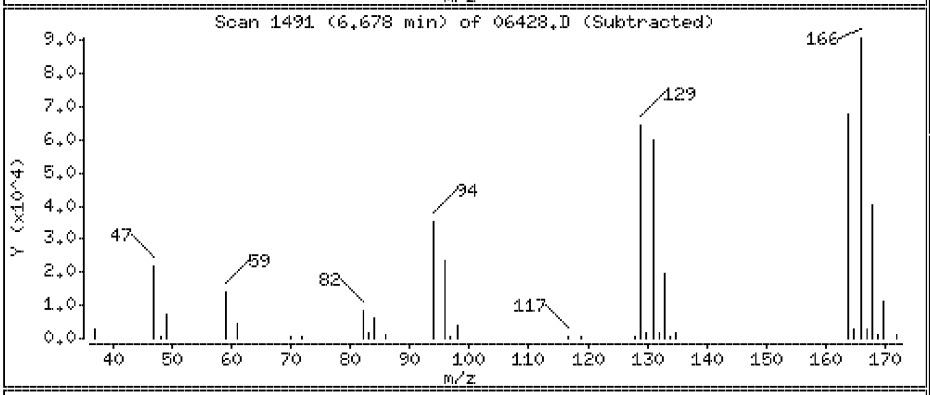
Column phase: J&W DB-5

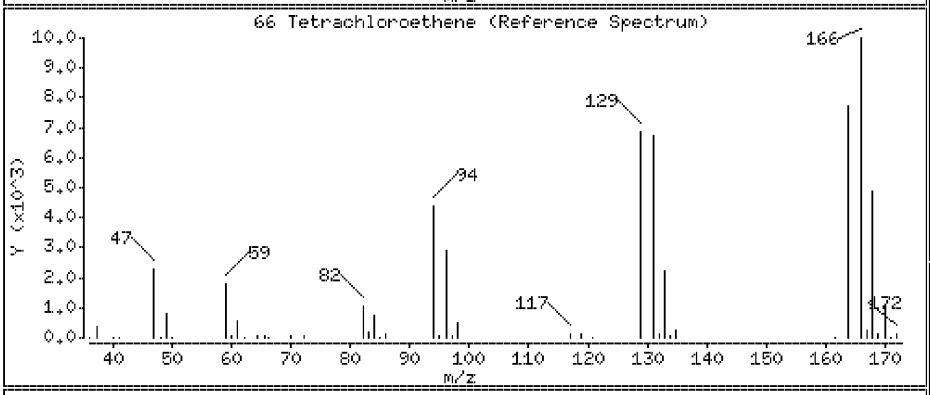
Column diameter: 0.32

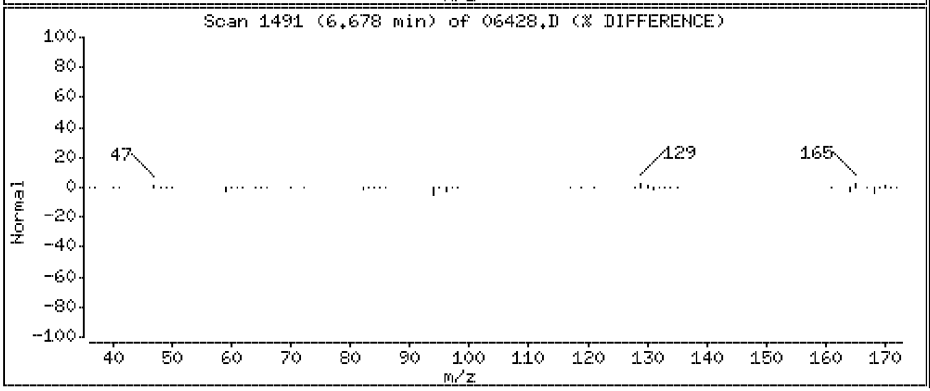
66 Tetrachloroethene

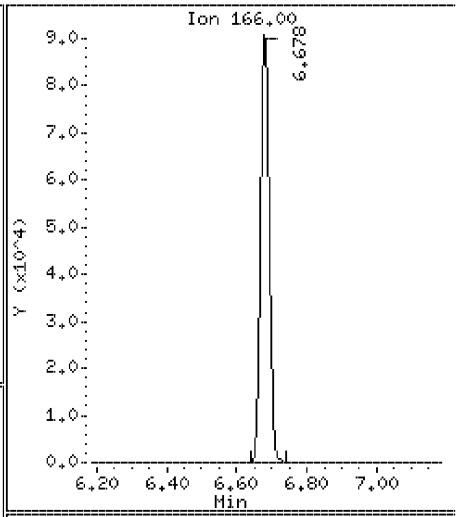
Concentration: 93.4 ppbv

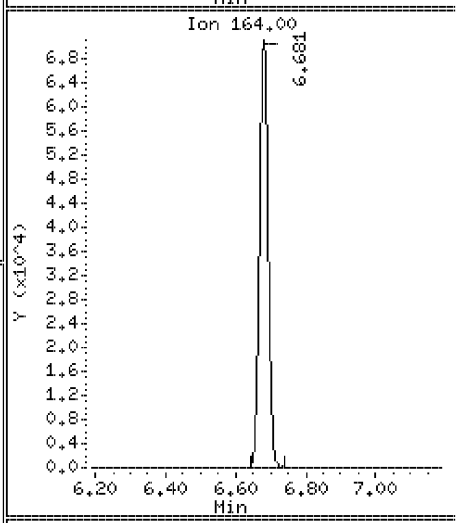


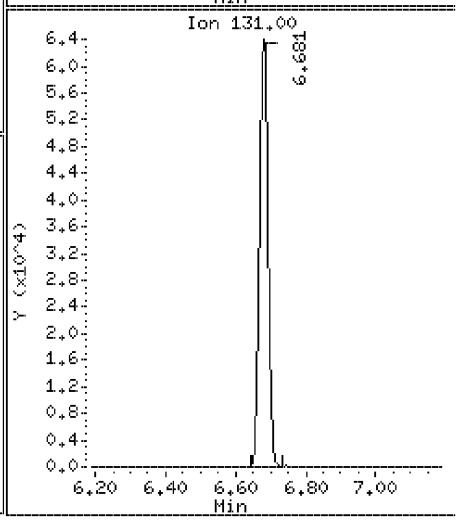












Data File: \\192.168.10.12\chem\10air7.i\030517.b/06428.D
Injection Date: 05-MAR-2017 20:36
Instrument: 10air7.i
Lab Sample ID: 10379458003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D
Report Date: 05-Mar-2017 15:46

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06329.D
Lab Smp Id: 10379458003
Inj Date : 04-MAR-2017 21:16
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 29
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.976	3.018	(0.532)	7568	1.07173	2.06	(QM)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.024	3.060	(0.541)	9830	0.21023	0.404	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.532	3.545	(0.632)	148257	33.4989	64.3	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.635	3.674	(0.650)	4516	0.13676	0.263	
17	Acrolein	56	3.658	3.684	(0.654)	1558	0.54280	1.04	(Q)
18	Acetone	43	3.700	3.722	(0.661)	67971	3.55666	6.83	(M)
19	Isopropyl Alcohol	45	3.764	3.767	(0.673)	72838	3.73710	7.18	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.918	3.951	(0.701)	6531	0.26191	0.503	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D
Report Date: 05-Mar-2017 15:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.960	3.957	(0.708)	4158	0.16595	0.319	
	25 Methylene chloride	49	3.967	4.005	(0.709)	15817	1.17262	2.25	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	4.086	4.127	(0.730)	3786	0.14904	0.286(M)	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.442	4.391	(0.794)	14690	0.63353	1.22	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.475	4.491	(0.800)	387789	10.1195	10.1	
	33 Methyl Ethyl Ketone	72	4.549	4.555	(0.813)	3135	0.61941	1.19	
	34 n-Hexane	57	4.568	4.584	(0.817)	4819	0.25090	0.482(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						(D)
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.809	4.841	(0.860)	6133	0.24578	0.472	
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.446	5.468	(0.974)	6255	0.16102	0.309	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.478	5.487	(0.979)	2885	0.14836	0.285(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.593	5.613	(1.000)	1204479	10.0000		
	48 2,2,4-Trimethylpentane	57	5.754	5.770	(1.029)	10618	0.17647	0.339	
	49 Heptane	43	5.876	5.893	(1.051)	4011	0.18479	0.355	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.970	5.989	(1.067)	6574	0.32484	0.624	
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	1041636	9.66230	9.66	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.146	7.153	(1.278)	19694	0.40483	0.777	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.584	(0.876)	7342	0.25978	0.499(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	1411078	49.1815	94.4(A)	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	826263	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.072	9.082	(1.050)	13142	0.27552	0.529	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.497	9.507	(1.099)	1202	0.10622	0.204(MH)	
	74 o-Xylene	91	9.577	9.581	(1.108)	6242	0.12863	0.247	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D
Report Date: 05-Mar-2017 15:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.381	11.378	(2.035)	5124	0.39958	0.767(QM)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.506	11.513	(1.331)	5884	0.11988	0.230	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	472843	10.3885	10.4	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	5502	0.49997	0.960	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D
Report Date: 05-Mar-2017 15:46

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06329.D
Lab Smp Id: 10379458003
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

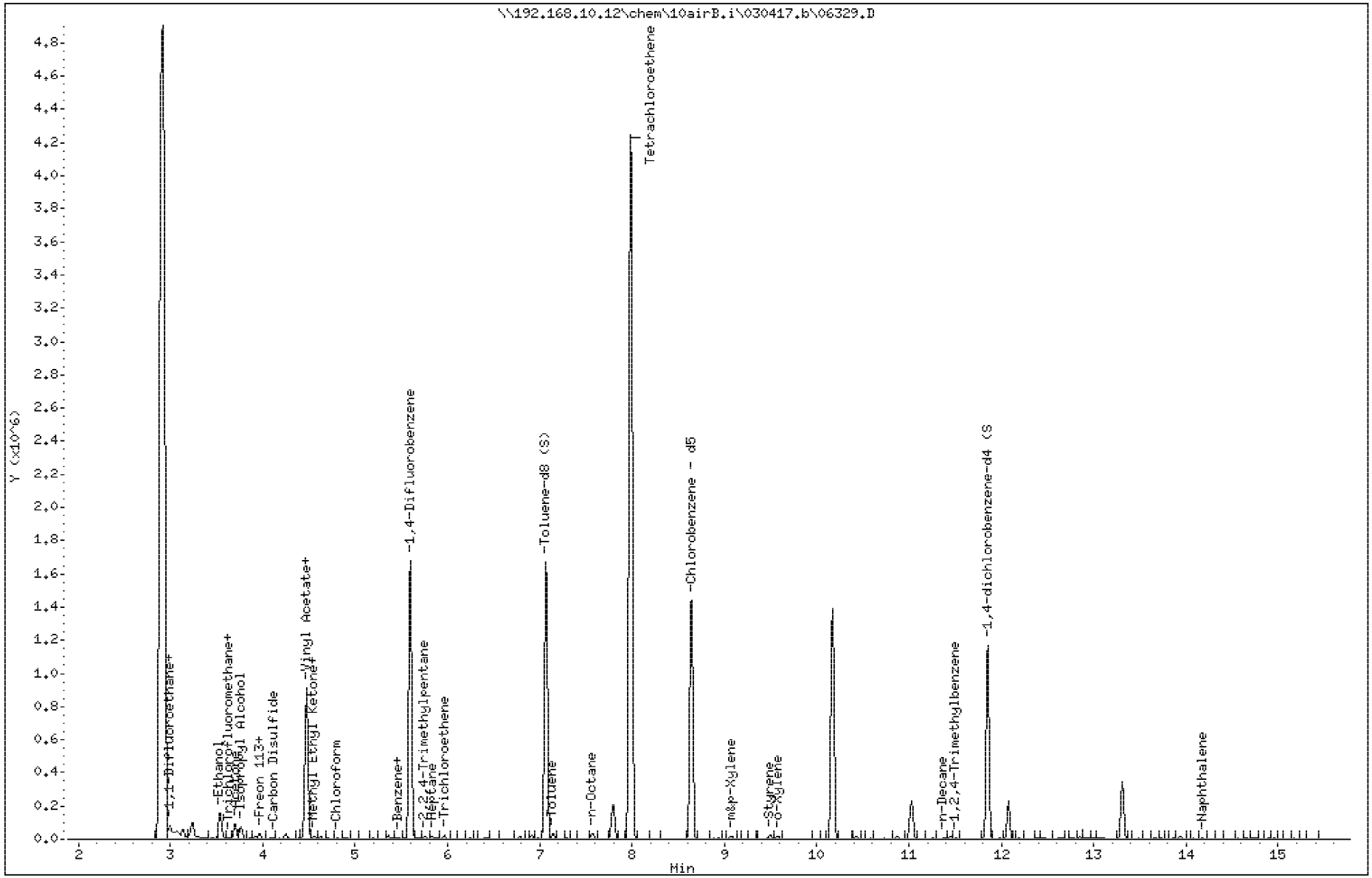
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1204479	-14.82
67 Chlorobenzene - d	951026	570616	1331436	826263	-13.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.59	-0.35
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D
Date : 04-MAR-2017 21:16
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

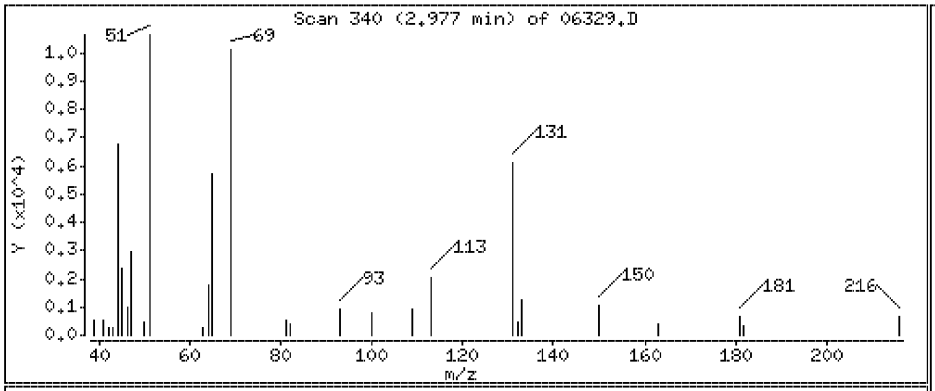
Operator: MJL

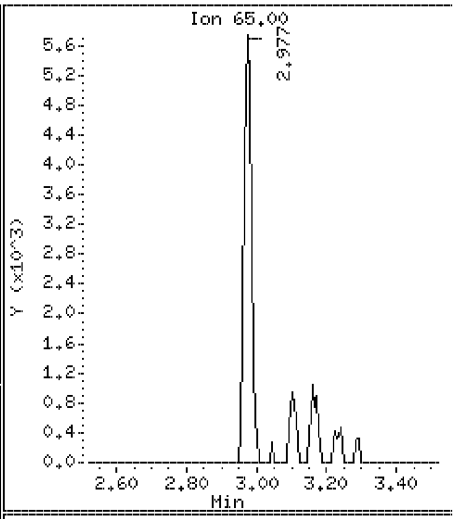
Column phase: J&W DB-5

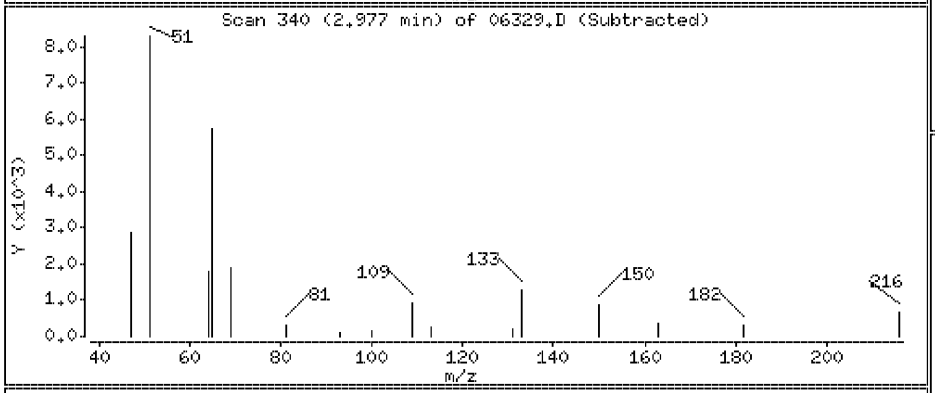
Column diameter: 0.32

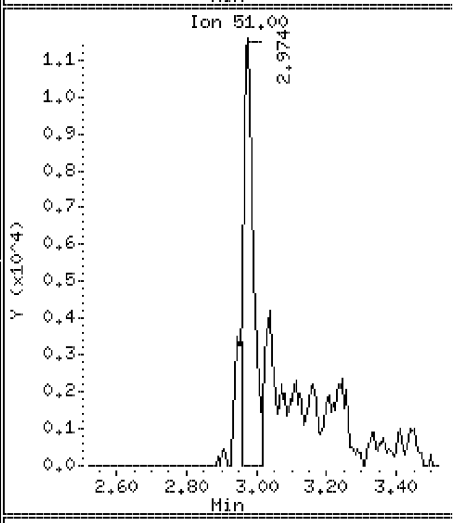
2 1,1-Difluoroethane

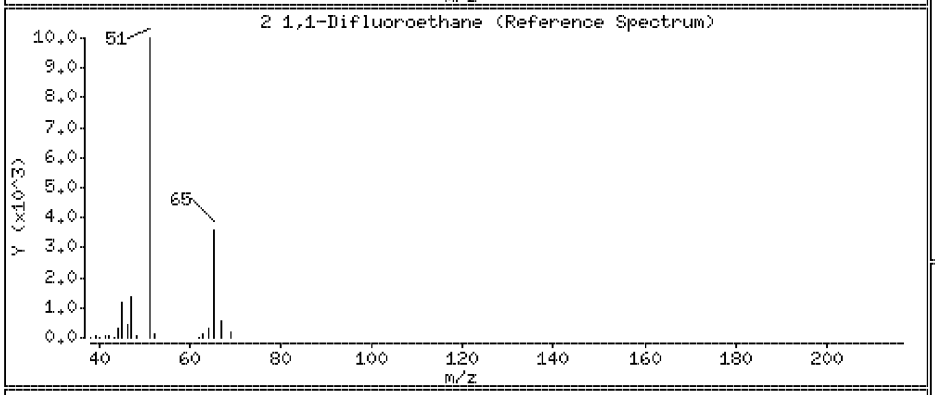
Concentration: 2.06 ppbv

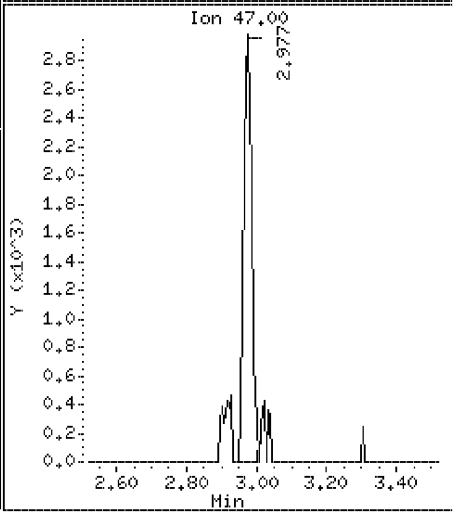


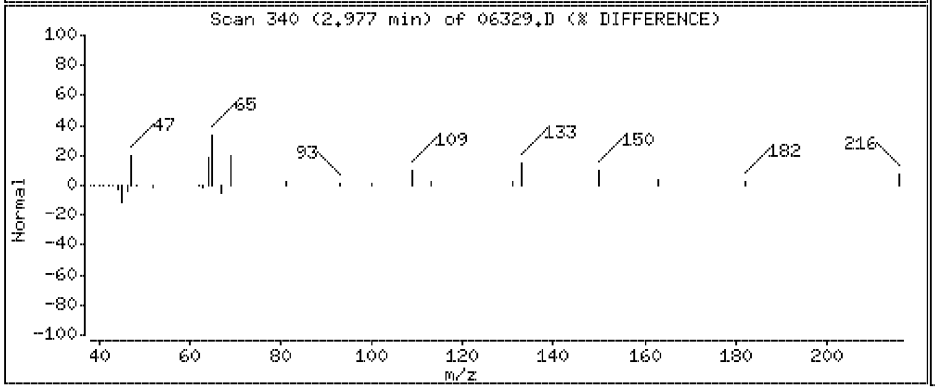












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

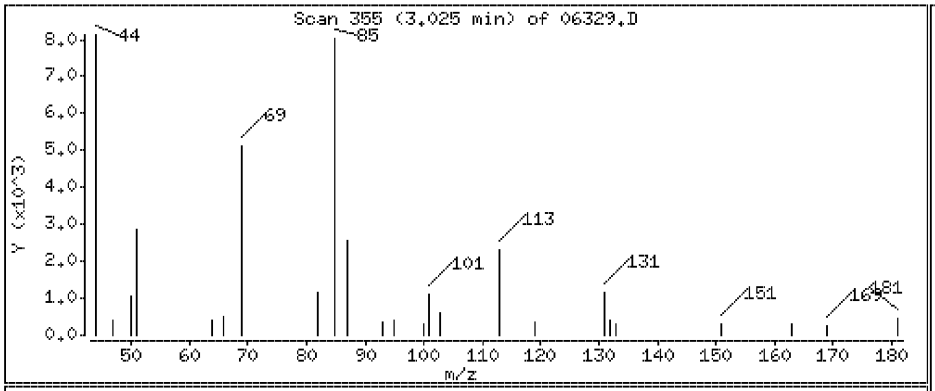
Operator: MJL

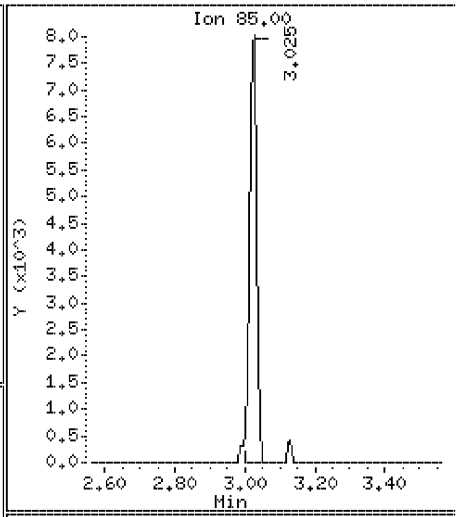
Column phase: J&W DB-5

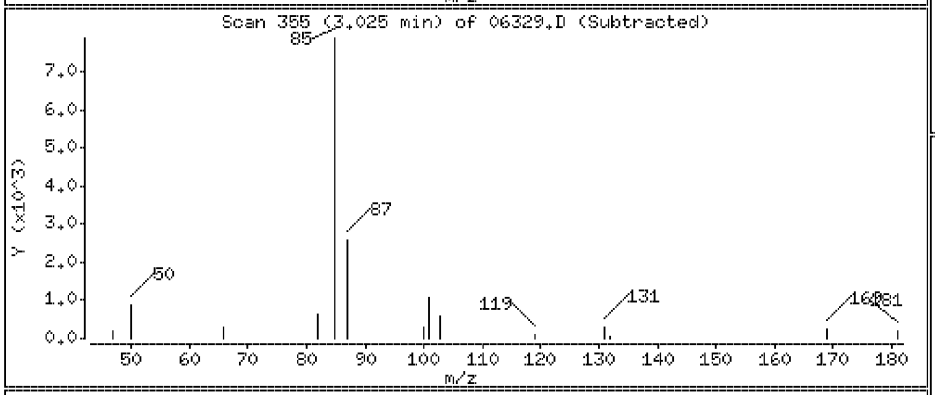
Column diameter: 0.32

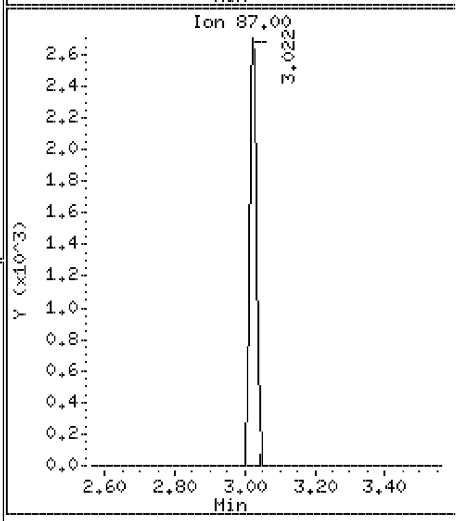
5 Dichlorodifluoromethane

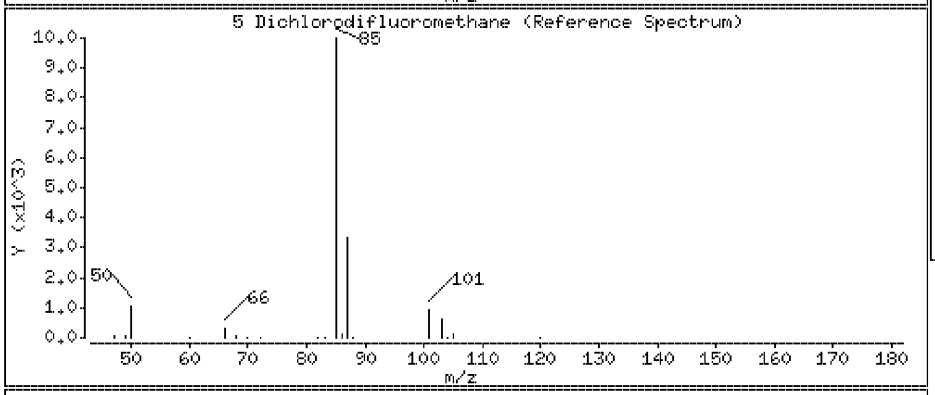
Concentration: 0.404 ppbv

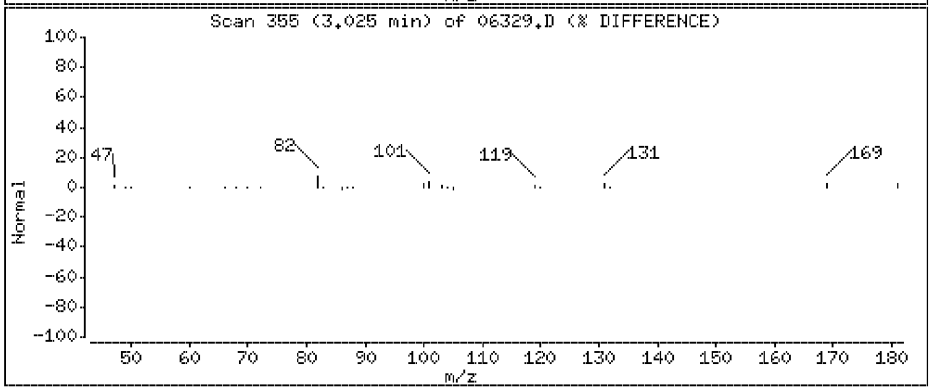












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

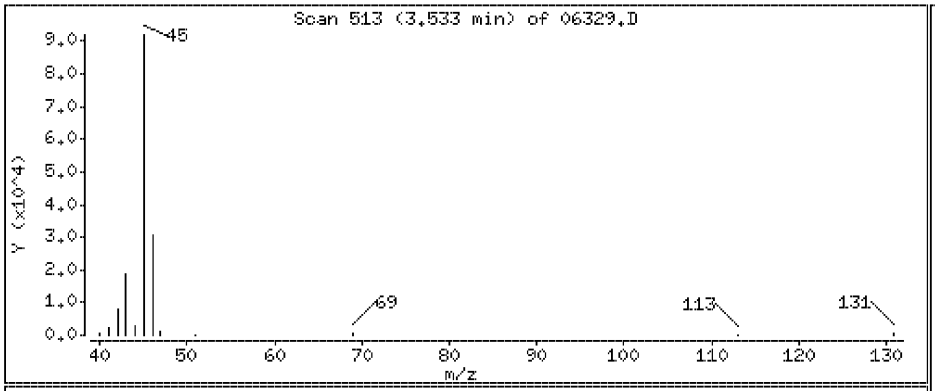
Operator: MJL

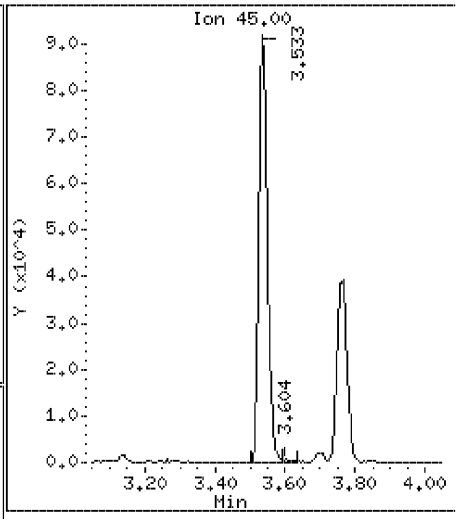
Column phase: J&W DB-5

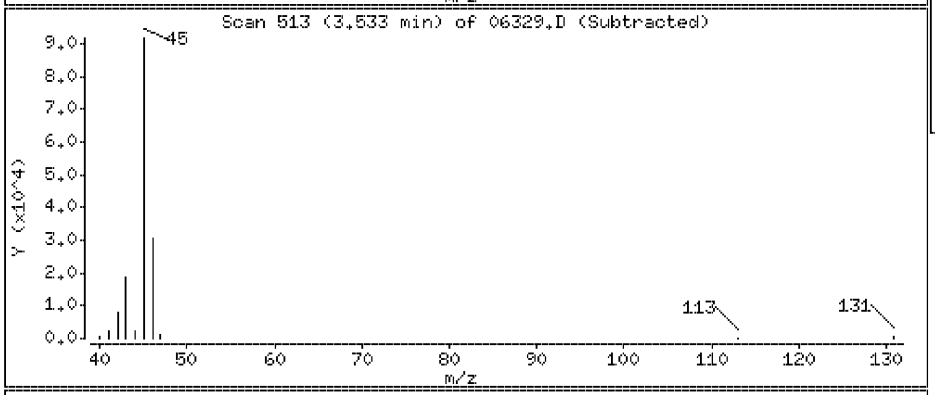
Column diameter: 0.32

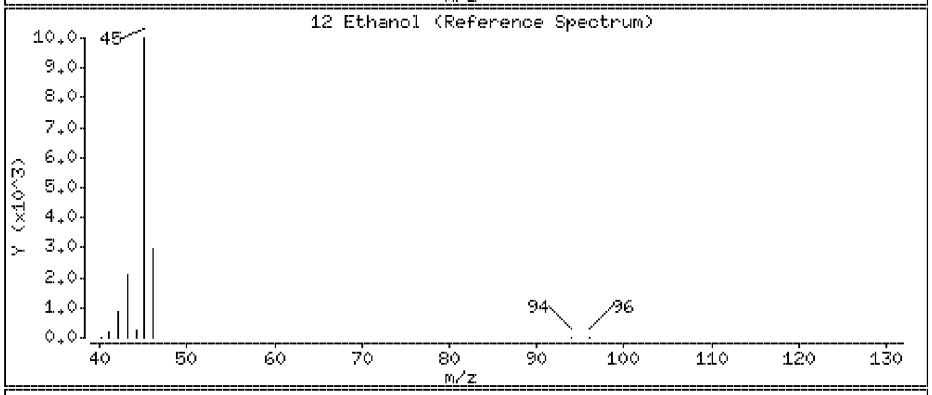
12 Ethanol

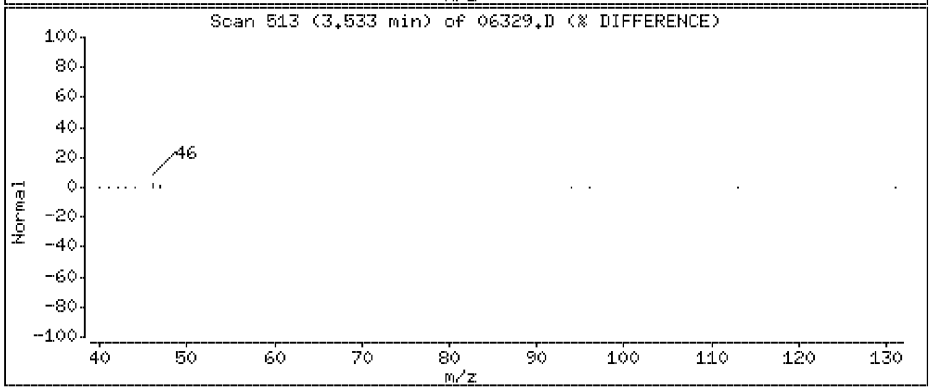
Concentration: 64.3 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

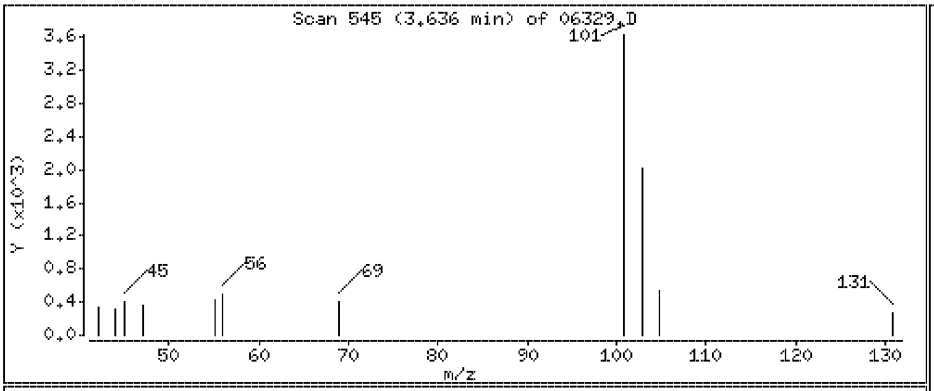
Operator: MJL

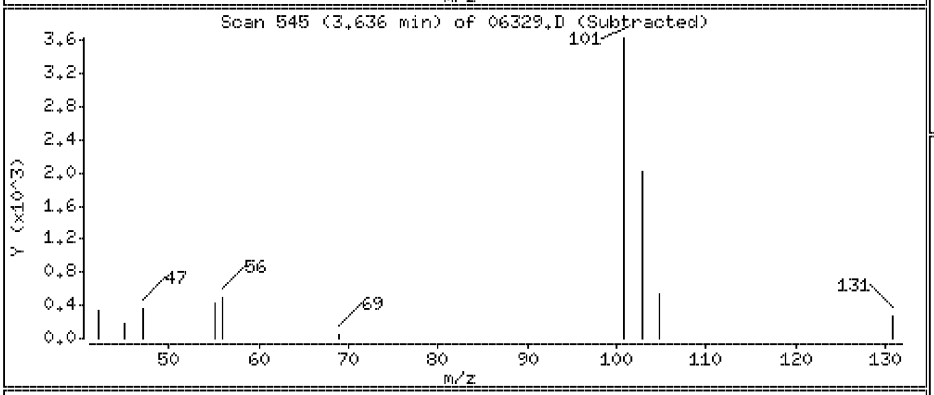
Column phase: J&W DB-5

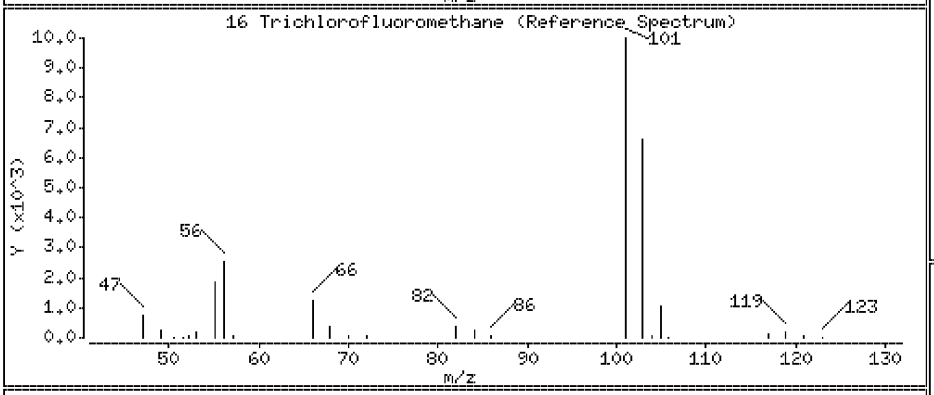
Column diameter: 0.32

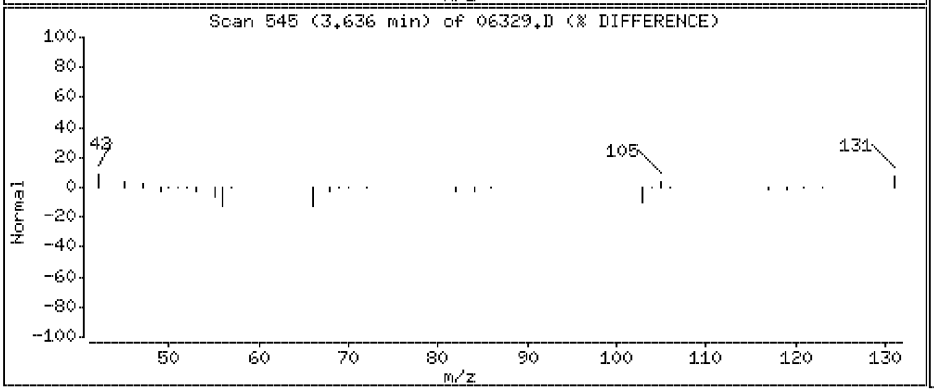
16 Trichlorofluoromethane

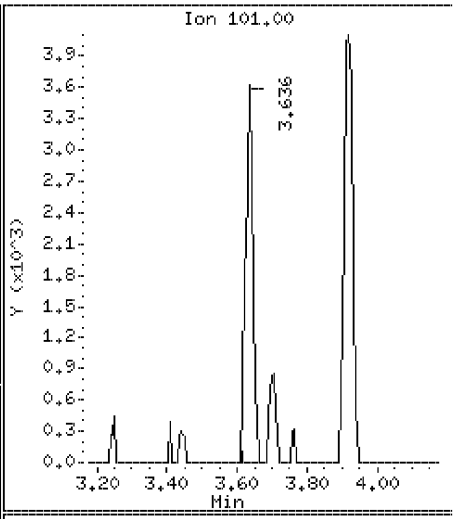
Concentration: 0.263 ppbv

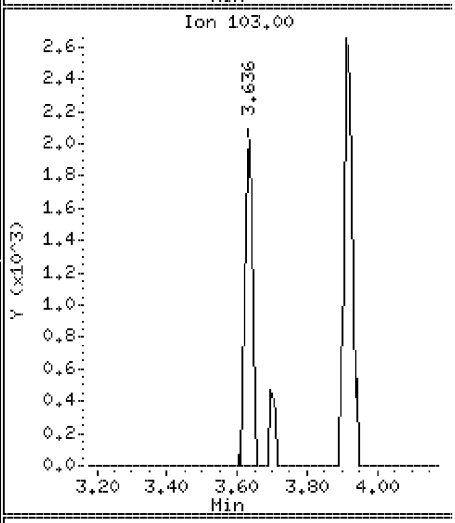


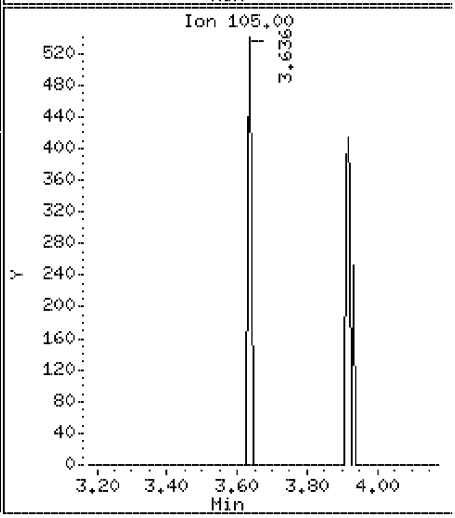












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

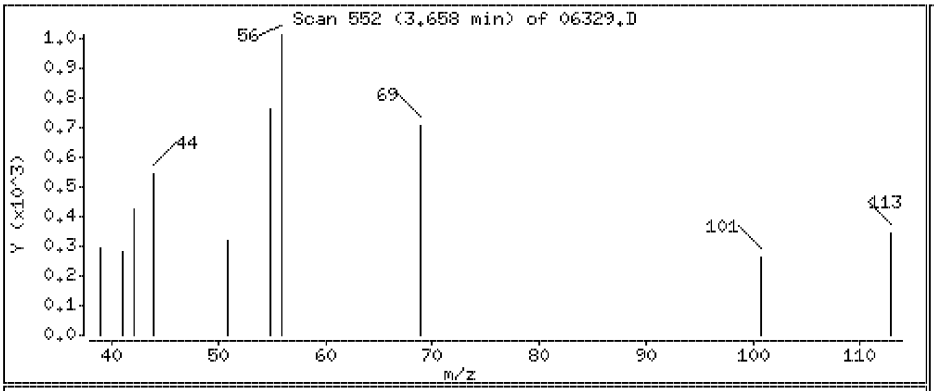
Operator: MJL

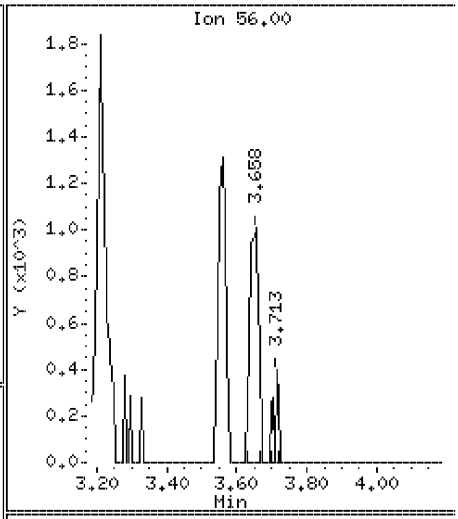
Column phase: J&W DB-5

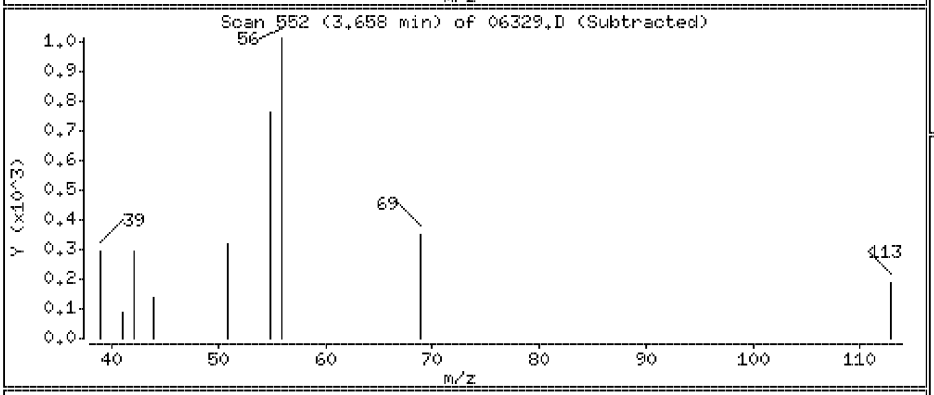
Column diameter: 0.32

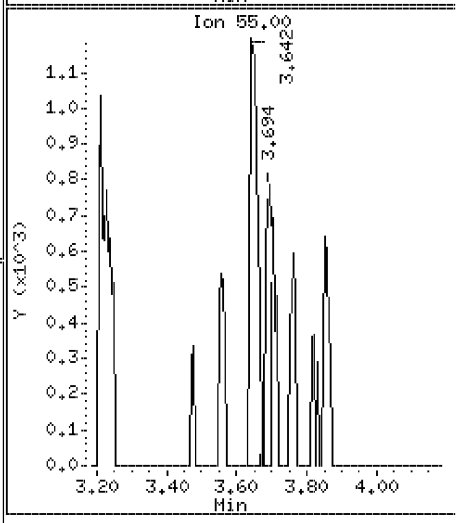
17 Acrolein

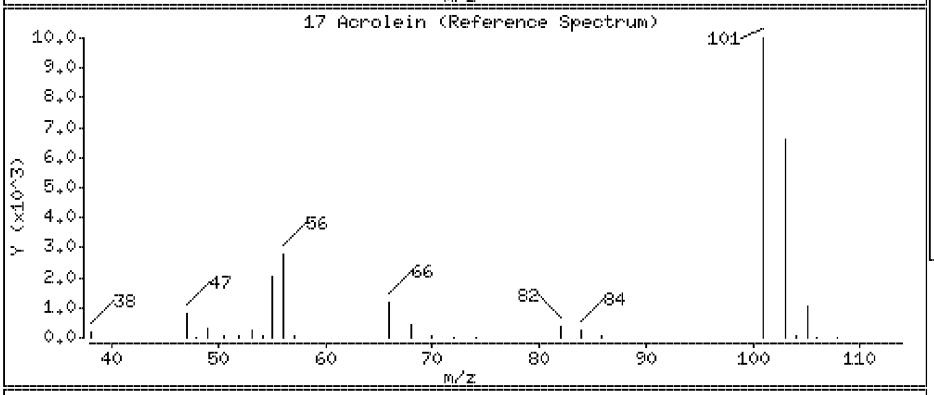
Concentration: 1.04 ppbv

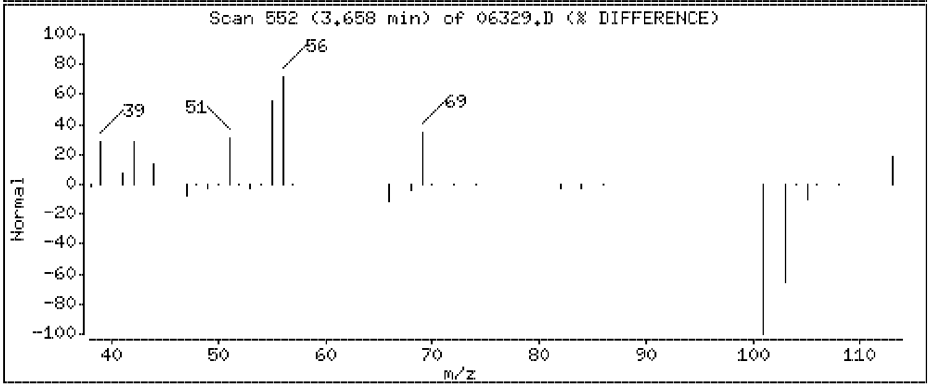












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

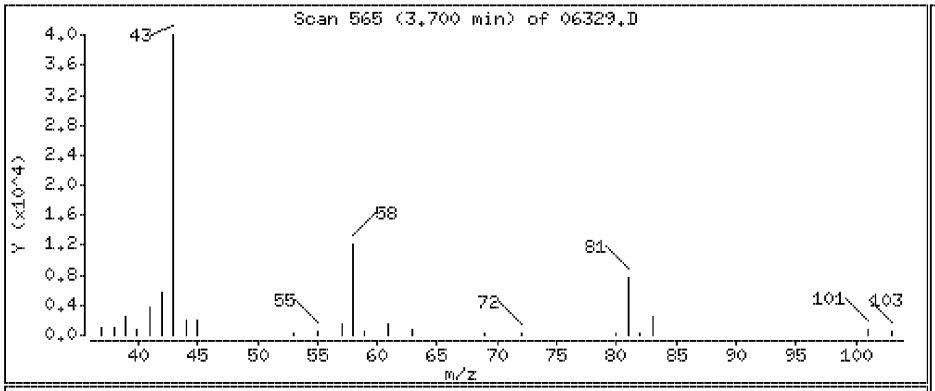
Operator: MJL

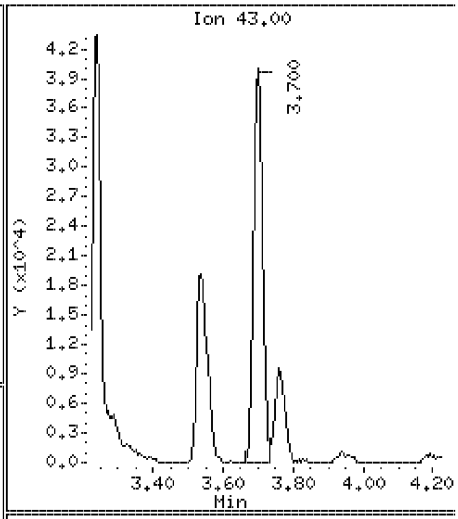
Column phase: J&W DB-5

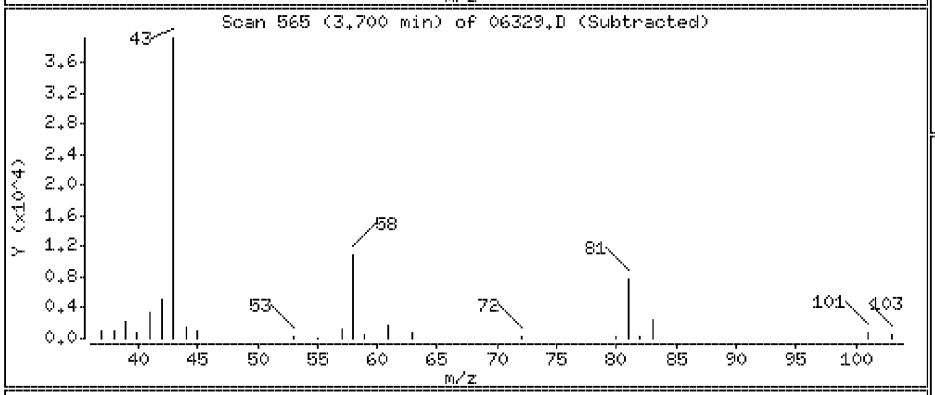
Column diameter: 0.32

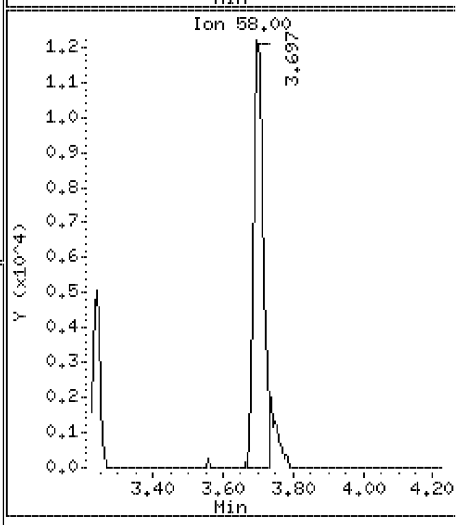
18 Acetone

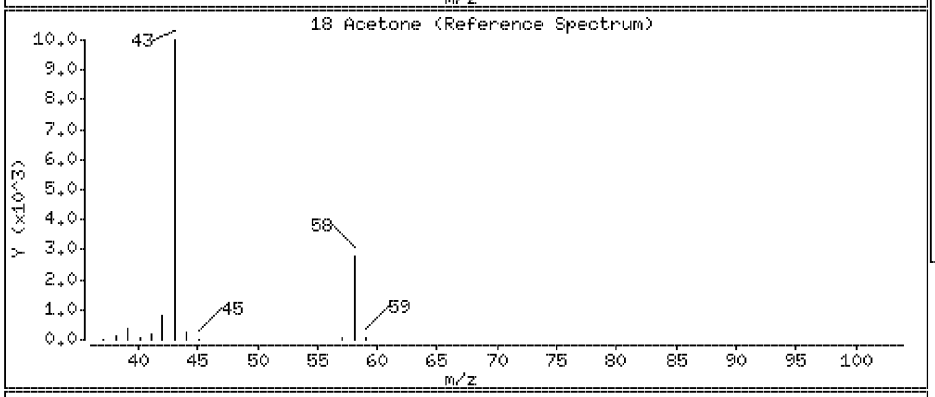
Concentration: 6.83 ppbv

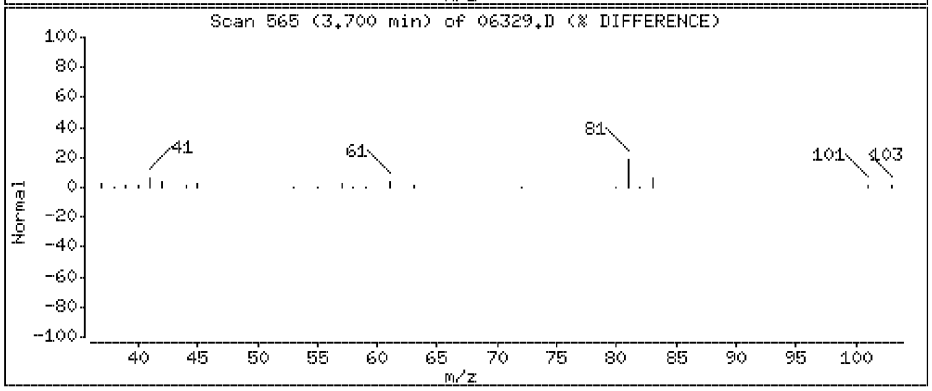












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

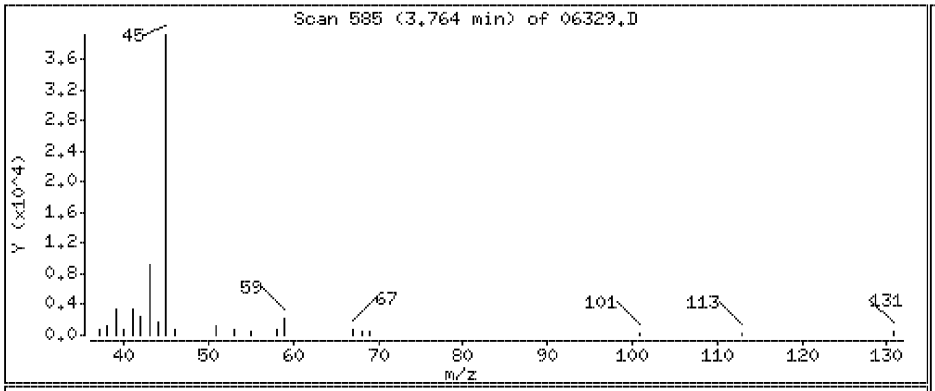
Operator: MJL

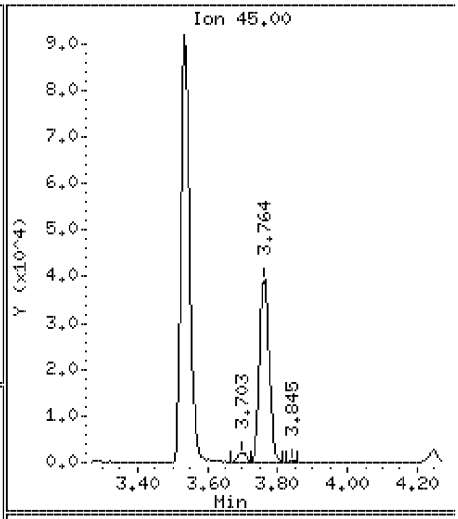
Column phase: J&W DB-5

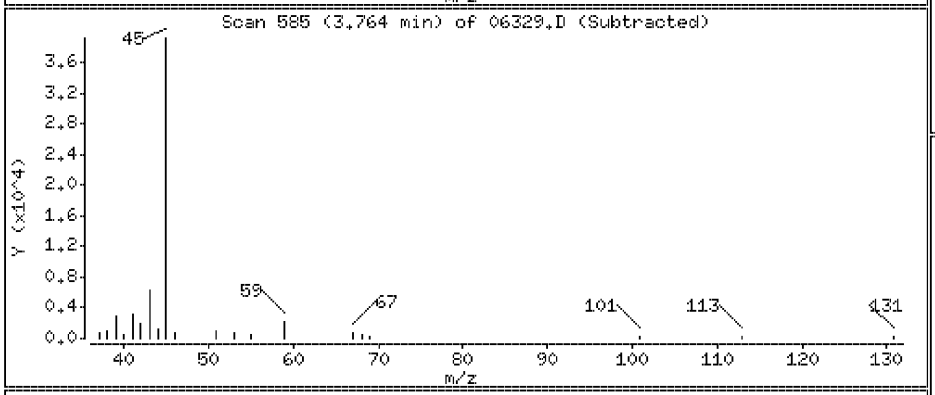
Column diameter: 0.32

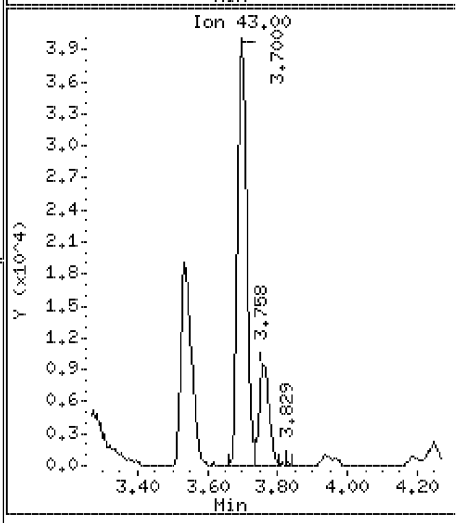
19 Isopropyl Alcohol

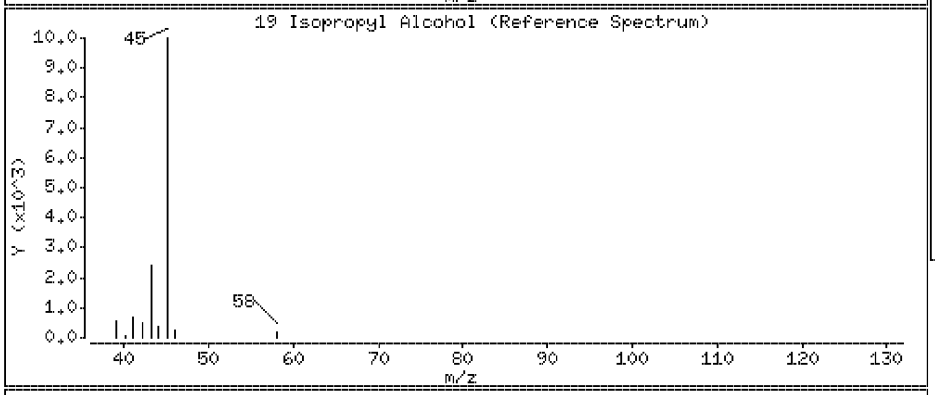
Concentration: 7.18 ppbv

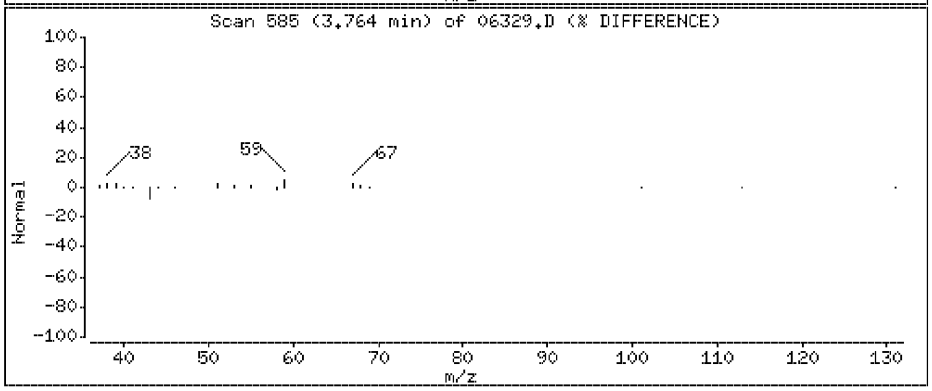












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

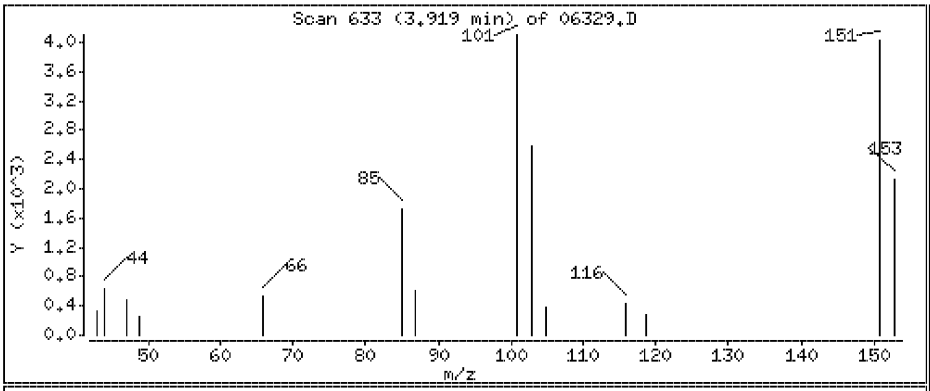
Operator: MJL

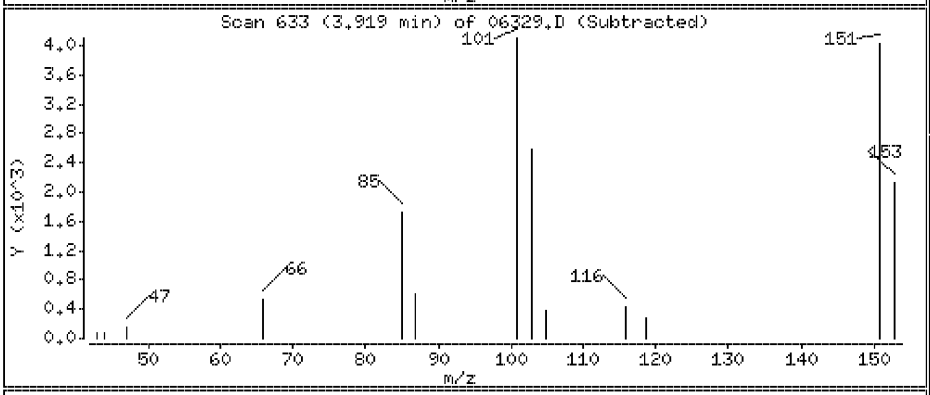
Column phase: J&W DB-5

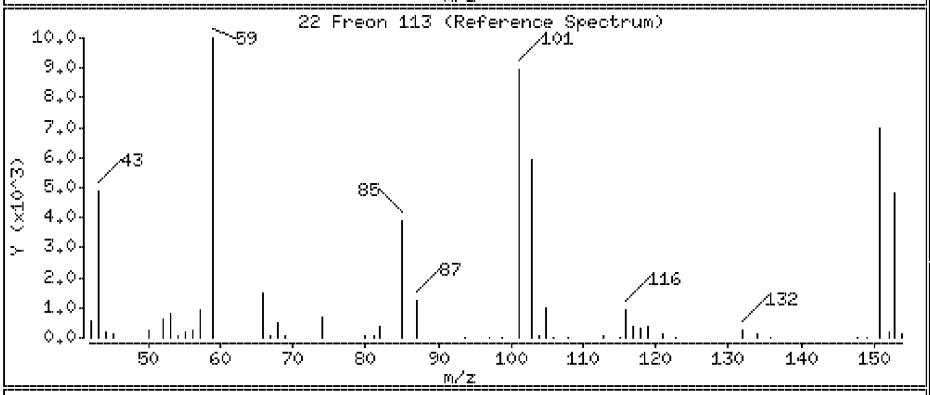
Column diameter: 0.32

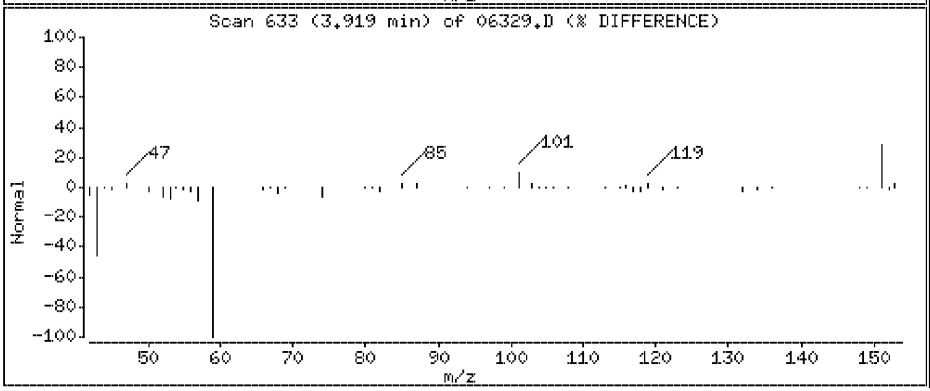
22 Freon 113

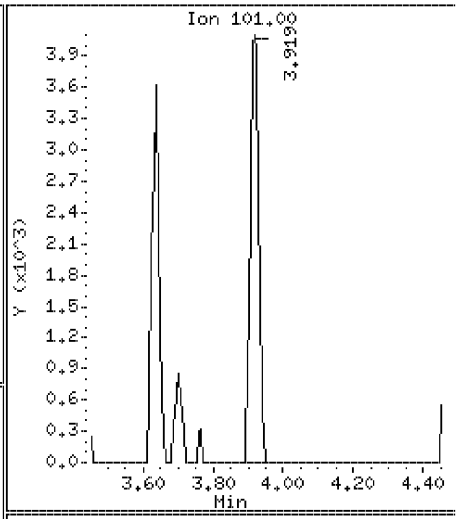
Concentration: 0.503 ppbv

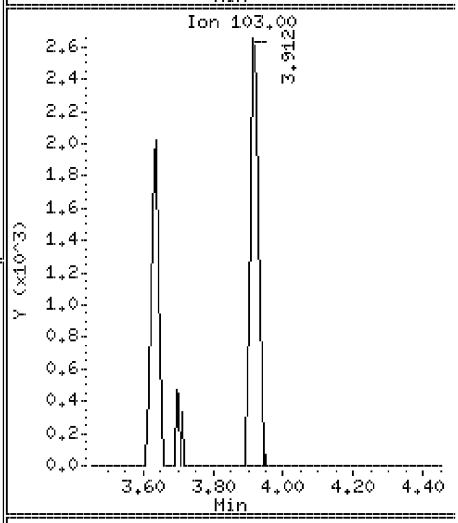


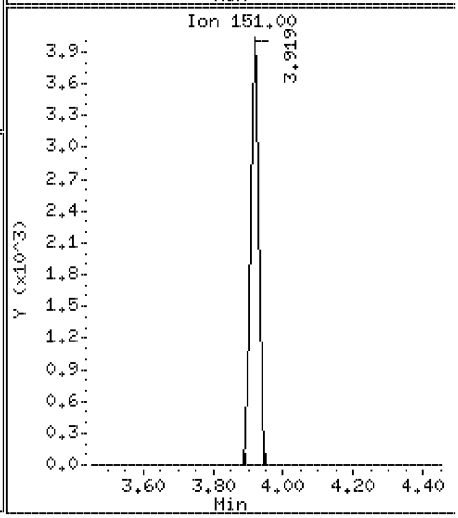












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

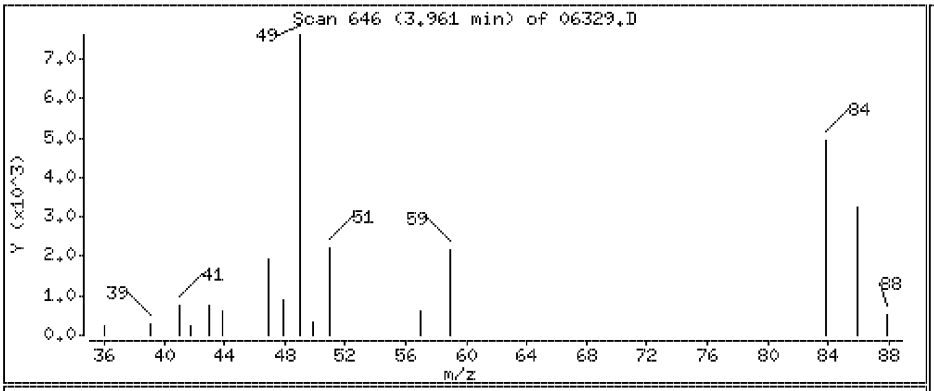
Operator: MJL

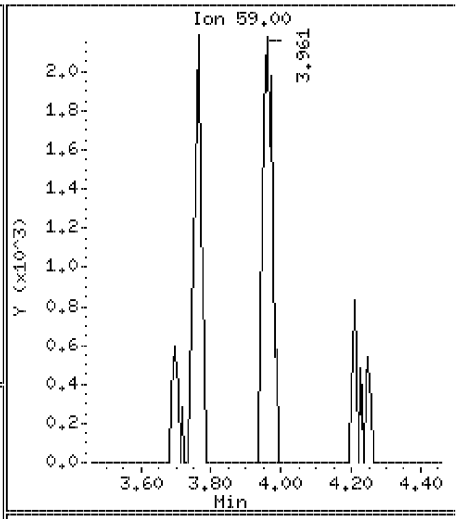
Column phase: J&W DB-5

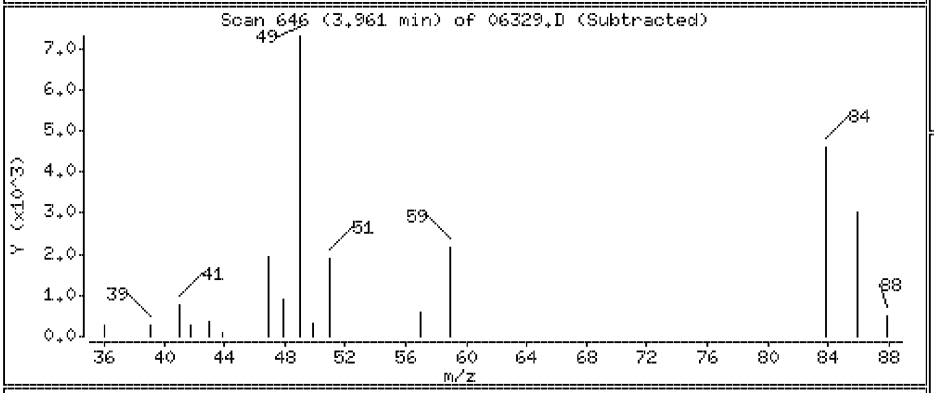
Column diameter: 0.32

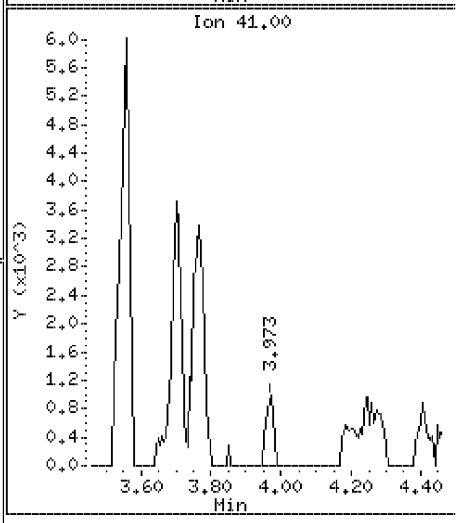
24 Tert Butyl Alcohol (TBA)

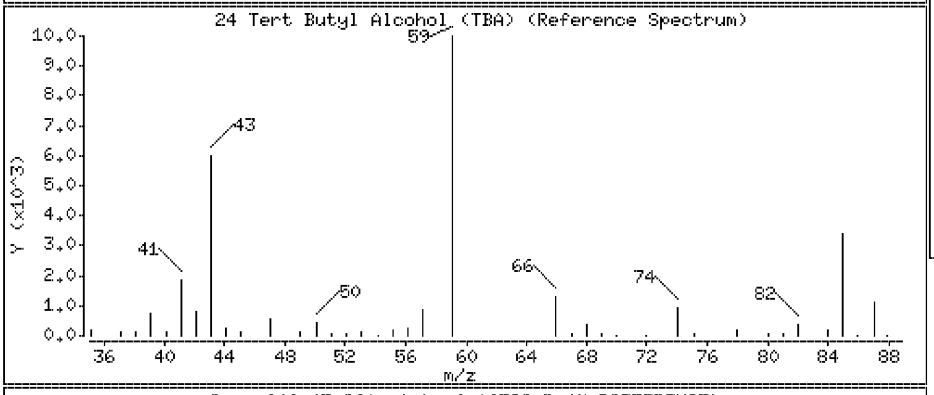
Concentration: 0.319 ppbv

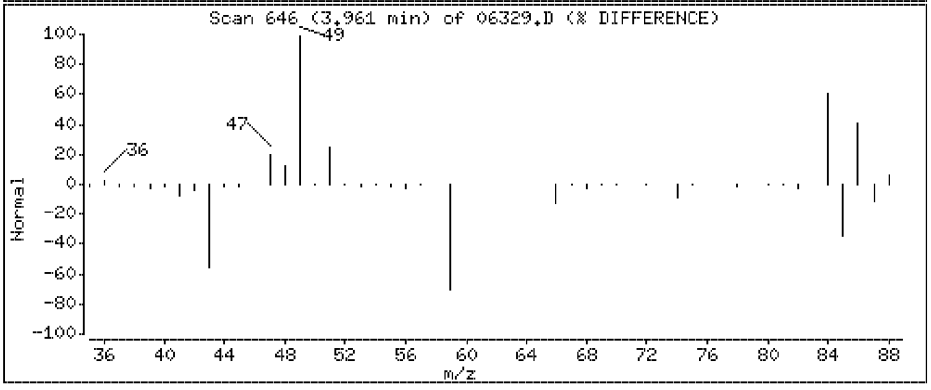












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

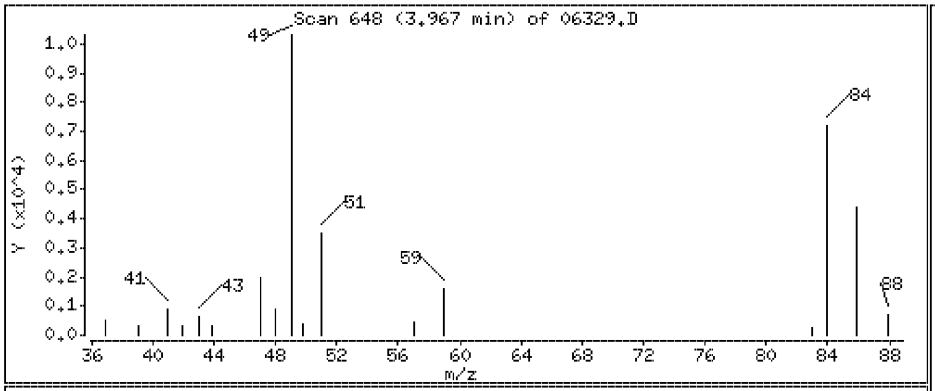
Operator: MJL

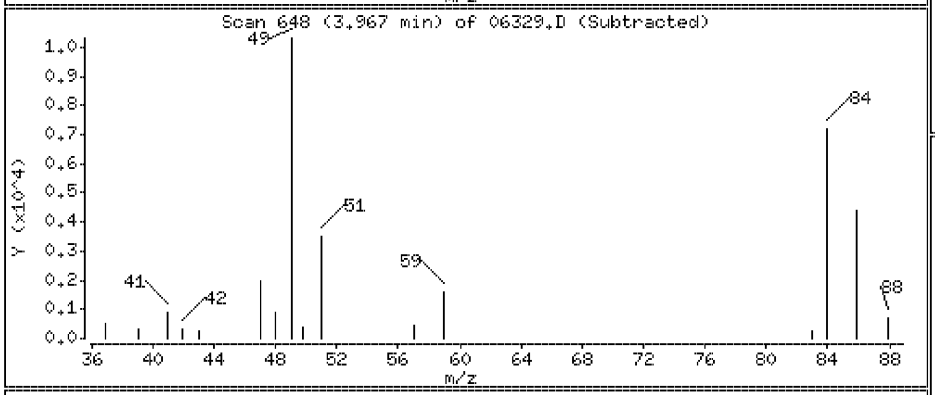
Column phase: J&W DB-5

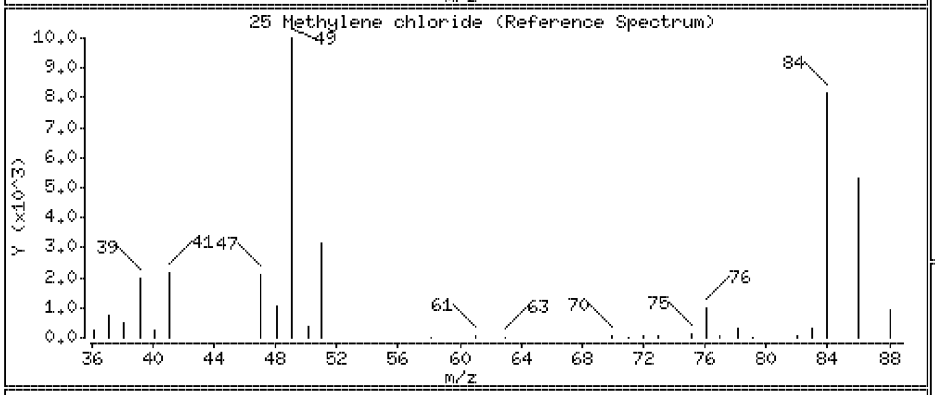
Column diameter: 0.32

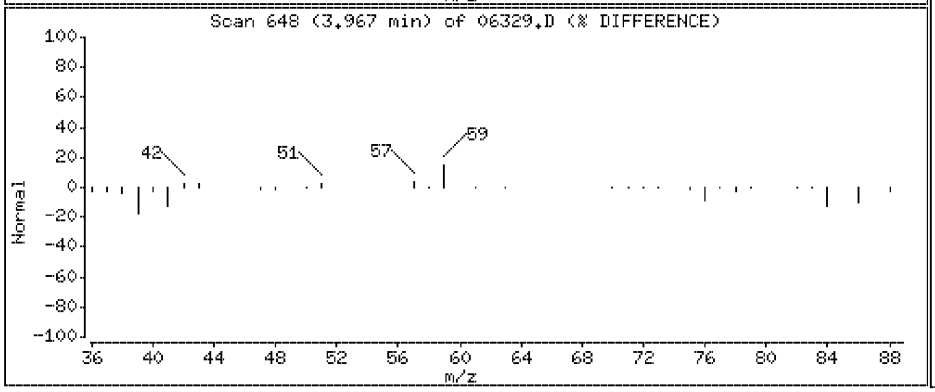
25 Methylene chloride

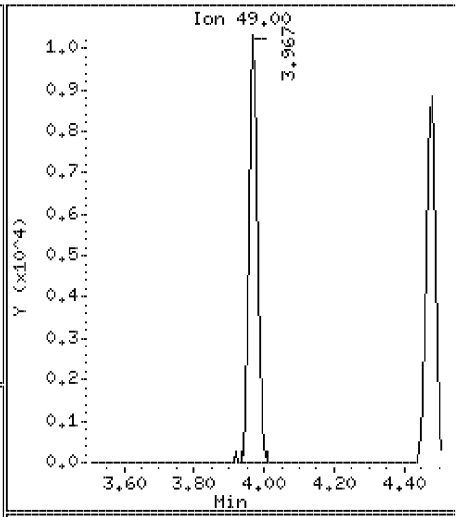
Concentration: 2.25 ppbv

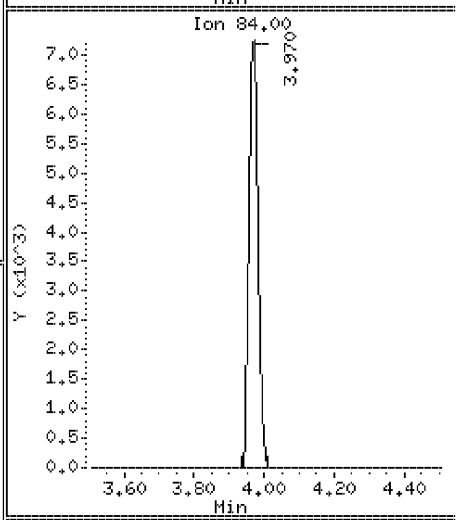


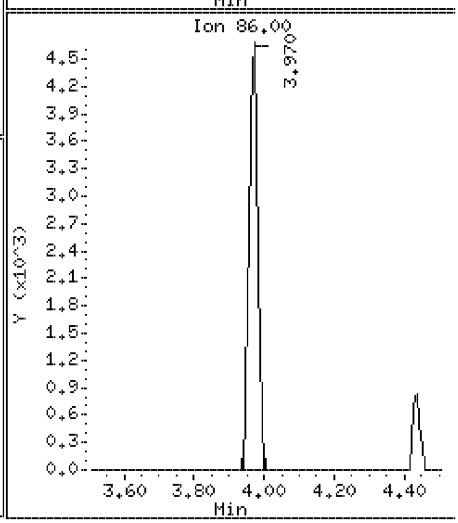












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

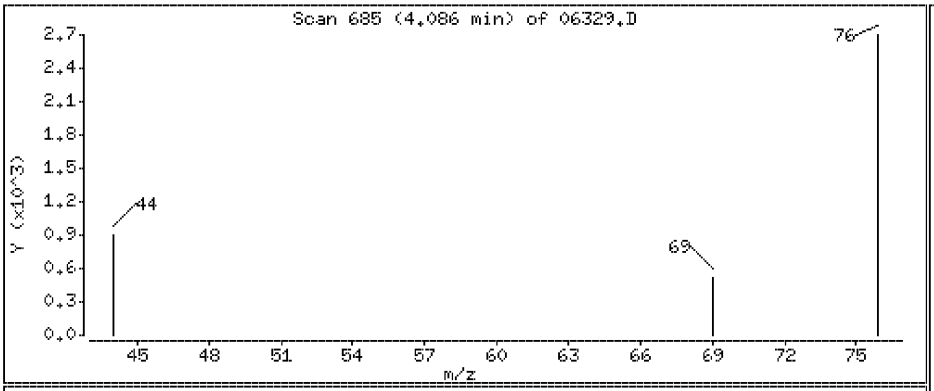
Operator: MJL

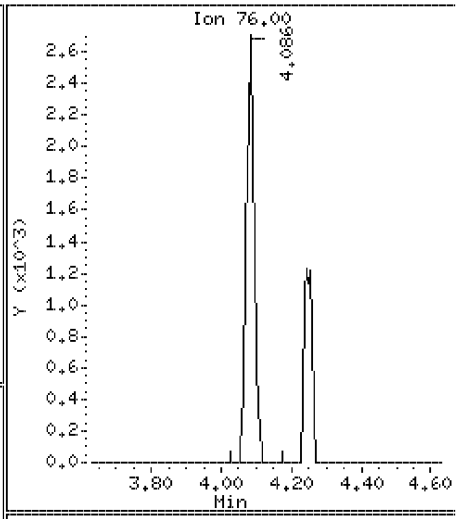
Column phase: J&W DB-5

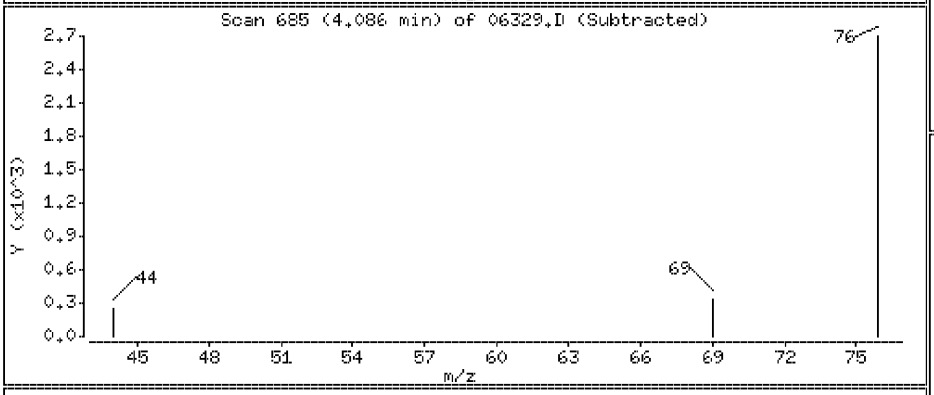
Column diameter: 0.32

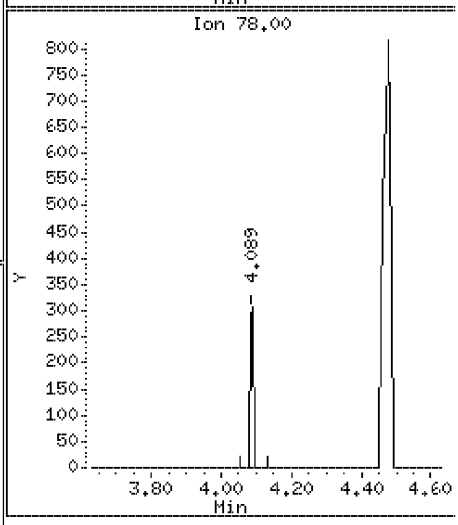
27 Carbon Disulfide

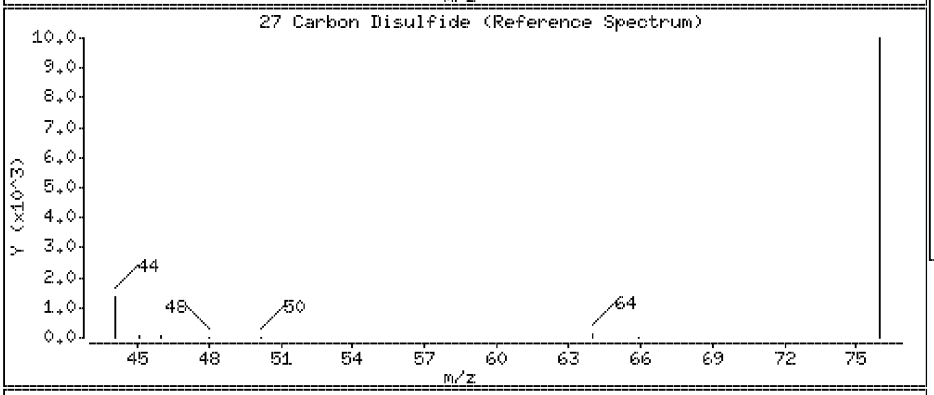
Concentration: 0.286 ppbv

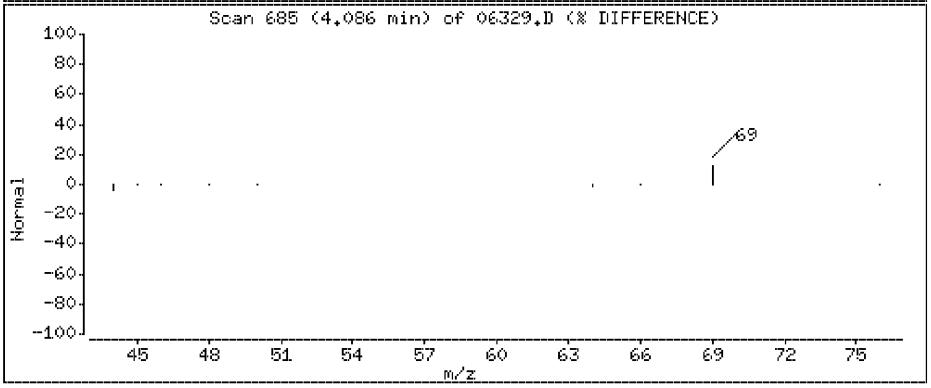












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

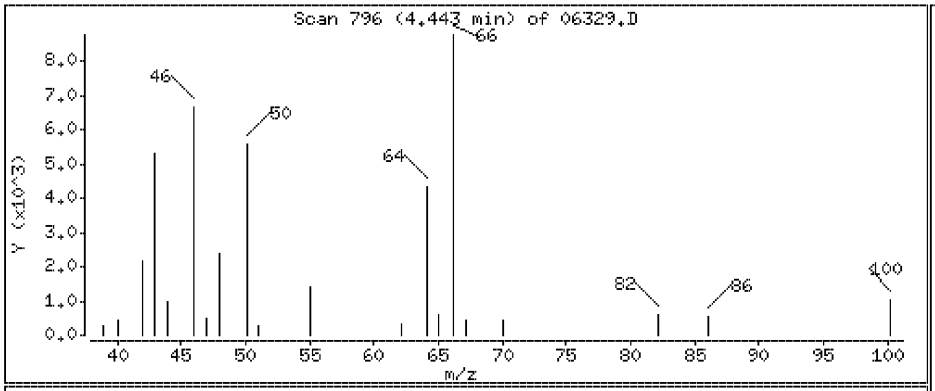
Operator: MJL

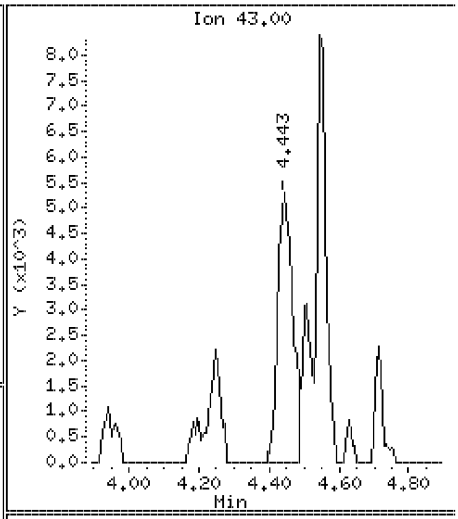
Column phase: J&W DB-5

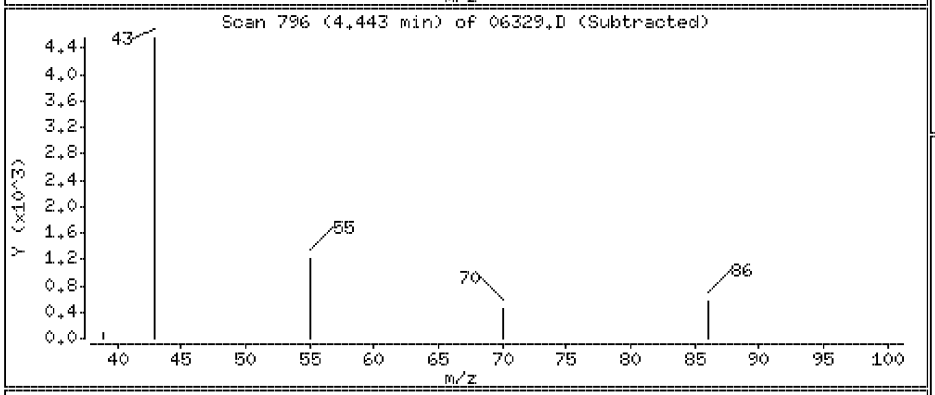
Column diameter: 0.32

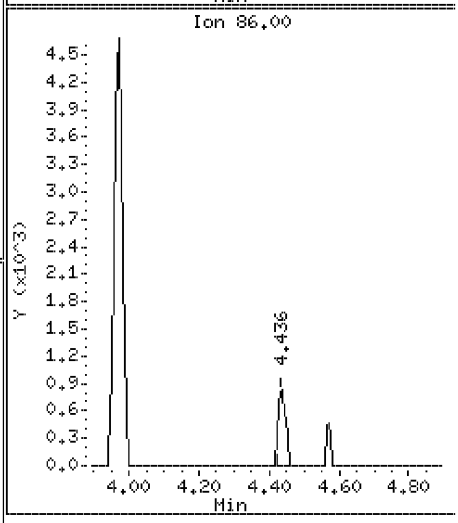
30 Vinyl Acetate

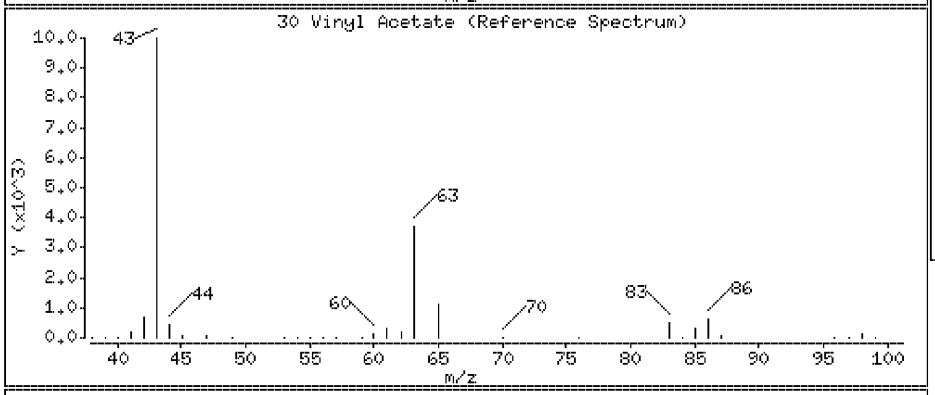
Concentration: 1.22 ppbv

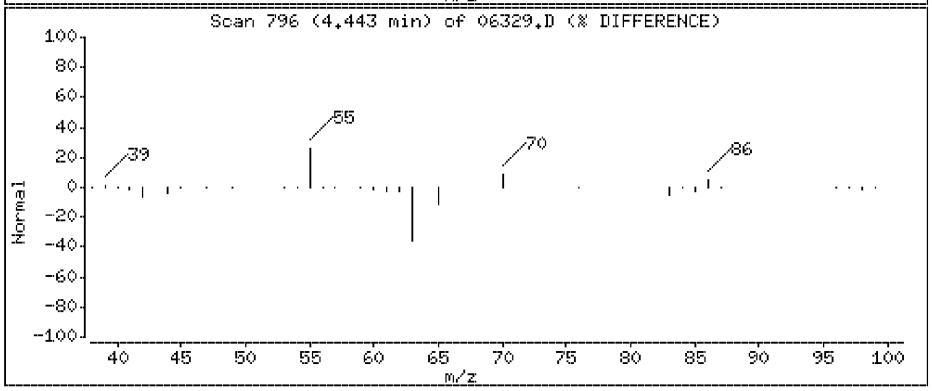












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

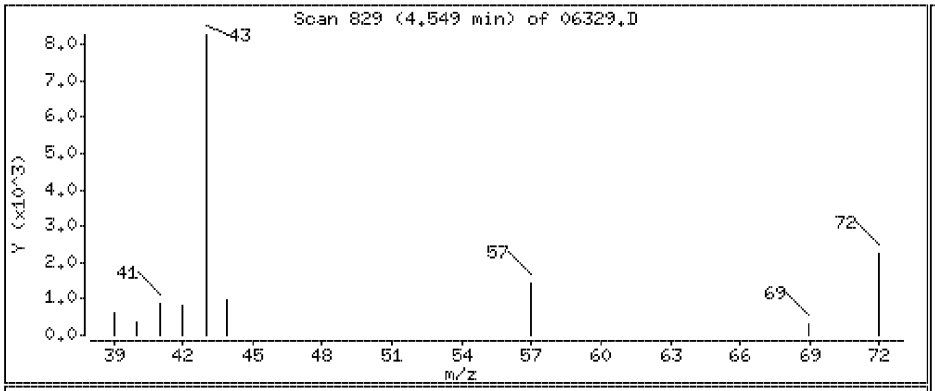
Operator: MJL

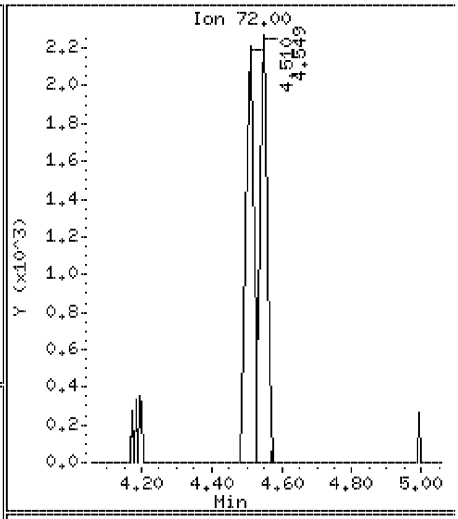
Column phase: J&W DB-5

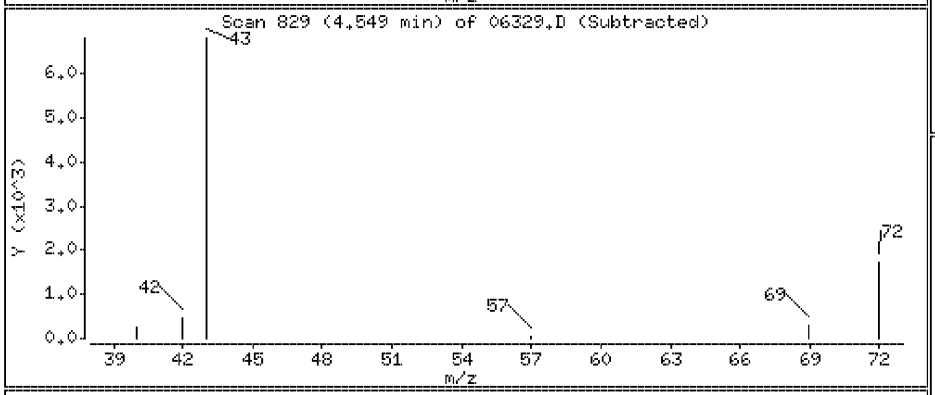
Column diameter: 0.32

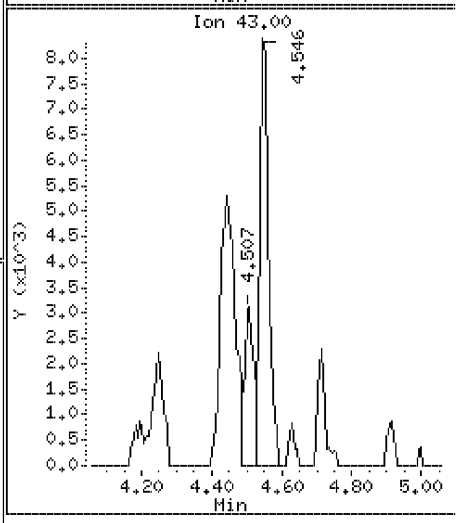
33 Methyl Ethyl Ketone

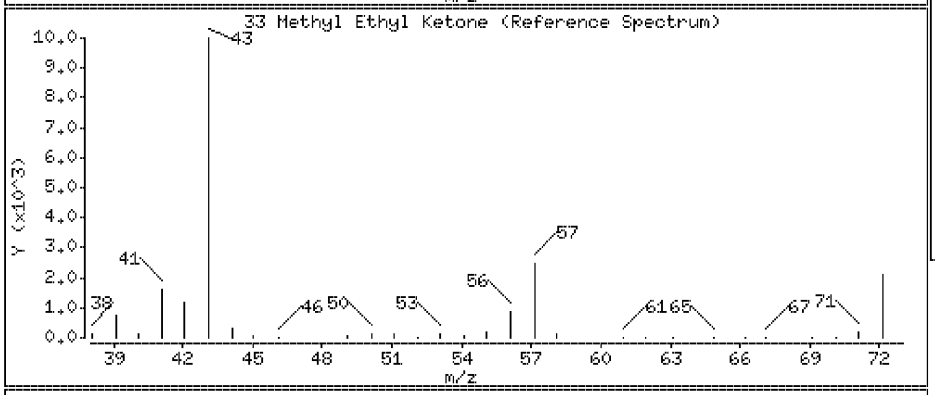
Concentration: 1.19 ppbv

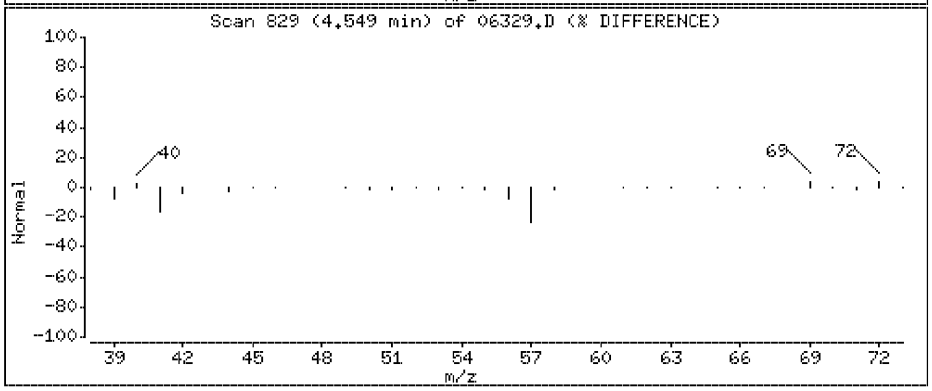












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

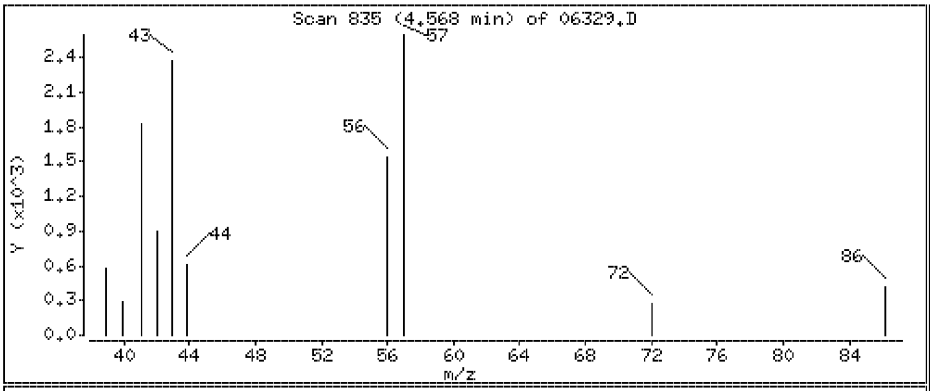
Operator: MJL

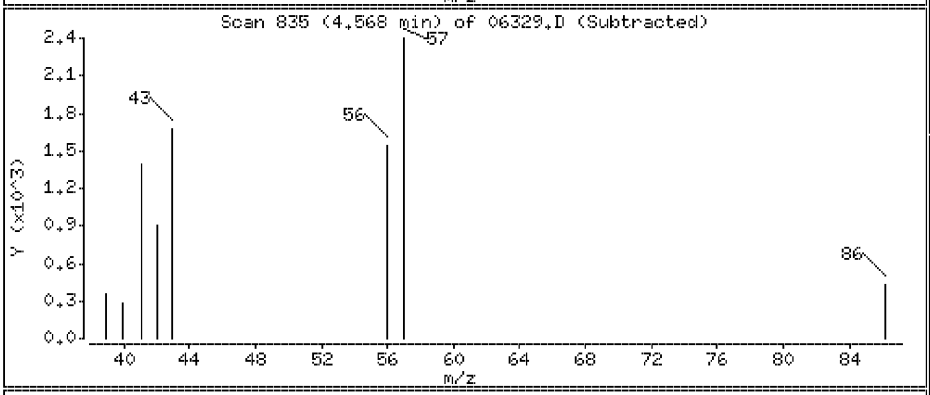
Column phase: J&W DB-5

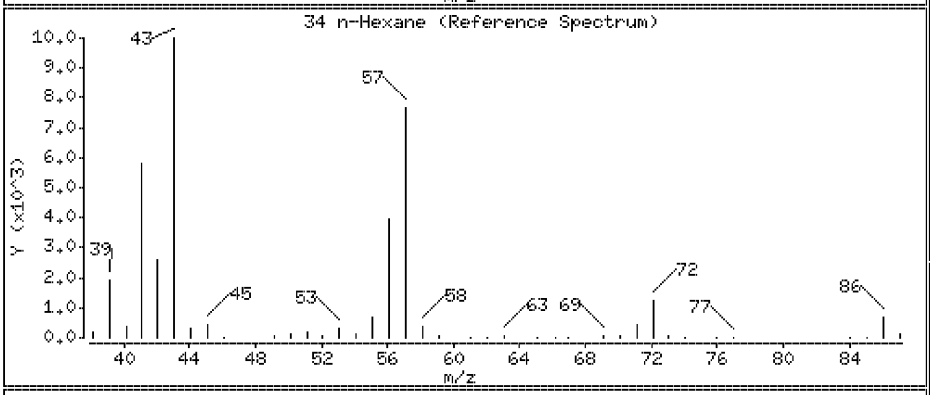
Column diameter: 0.32

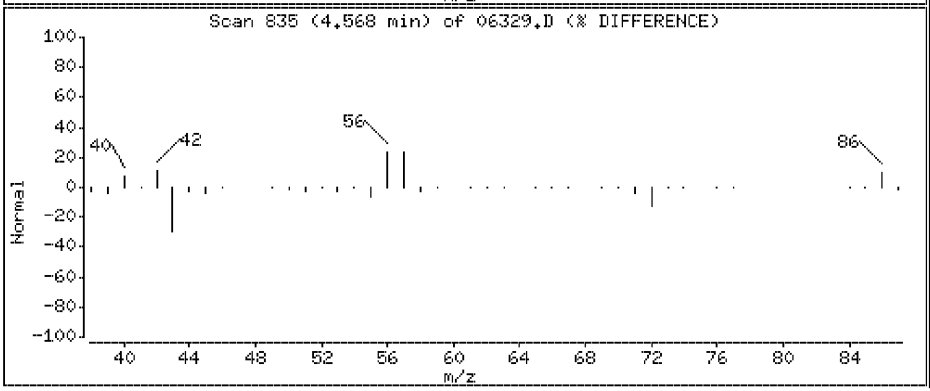
34 n-Hexane

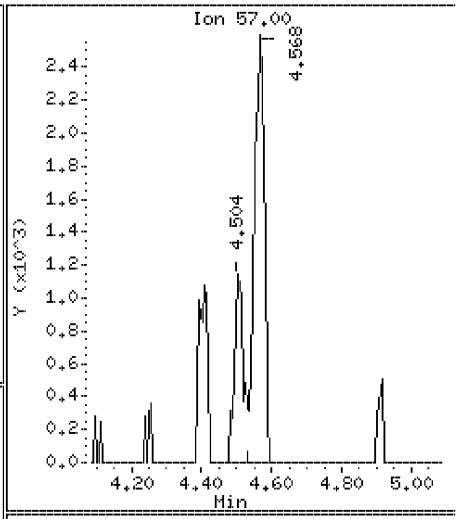
Concentration: 0.482 ppbv

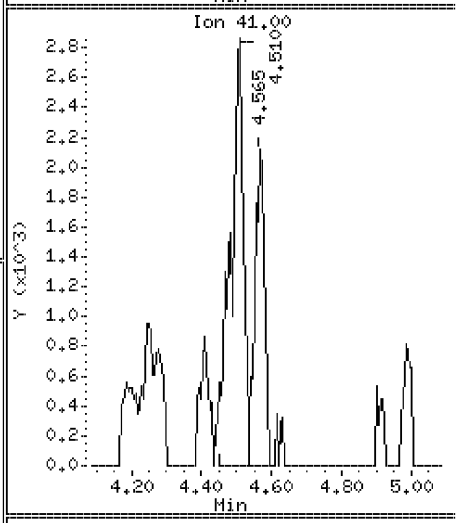


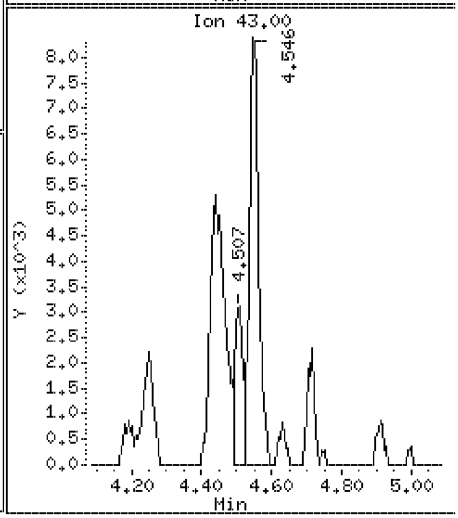












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

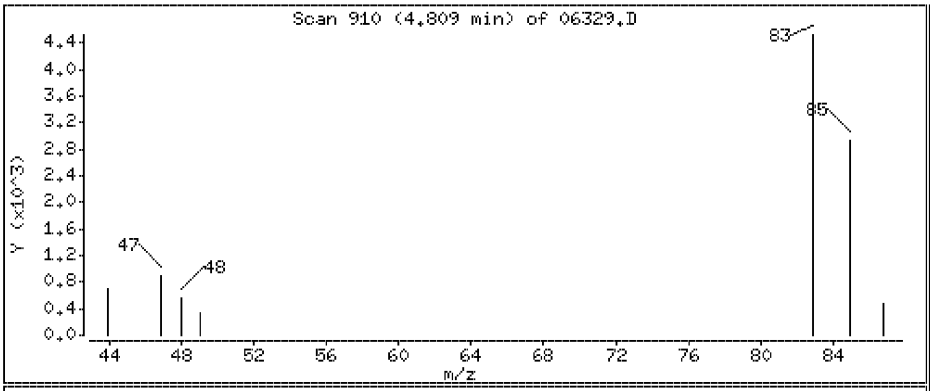
Operator: MJL

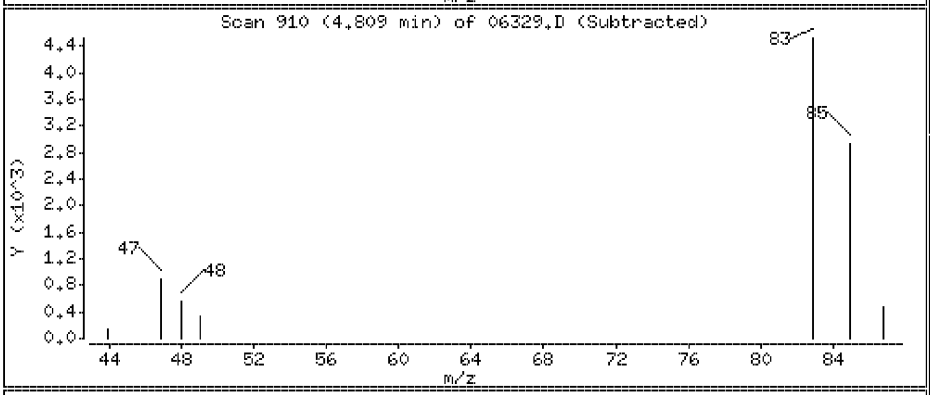
Column phase: J&W DB-5

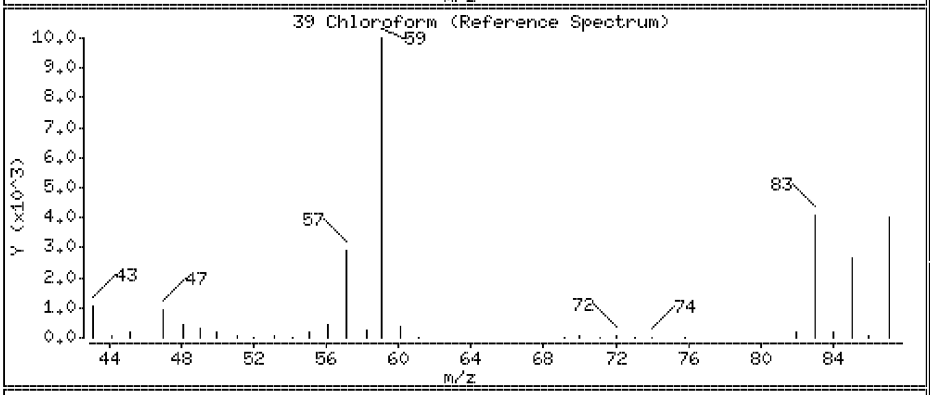
Column diameter: 0.32

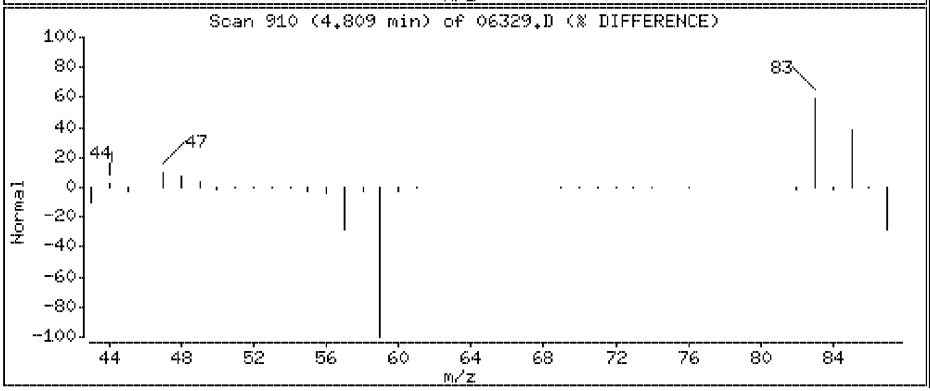
39 Chloroform

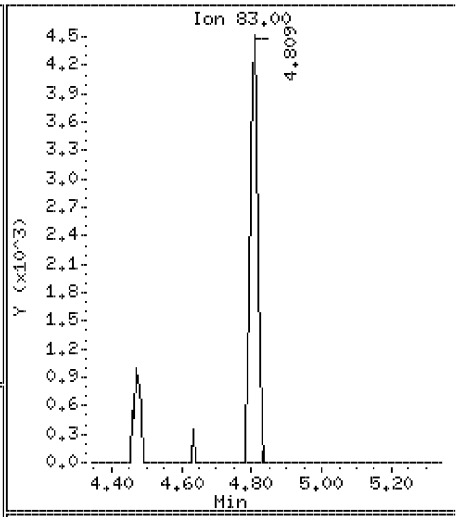
Concentration: 0.472 ppbv

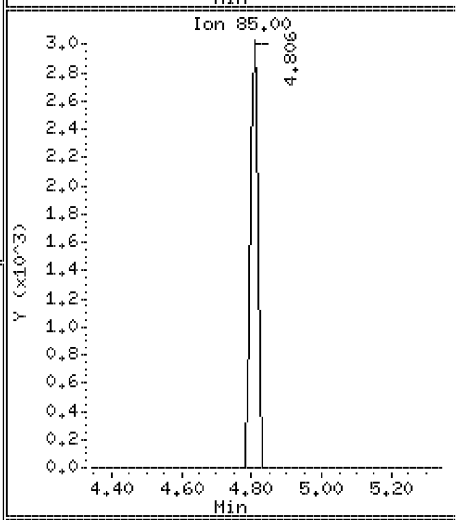


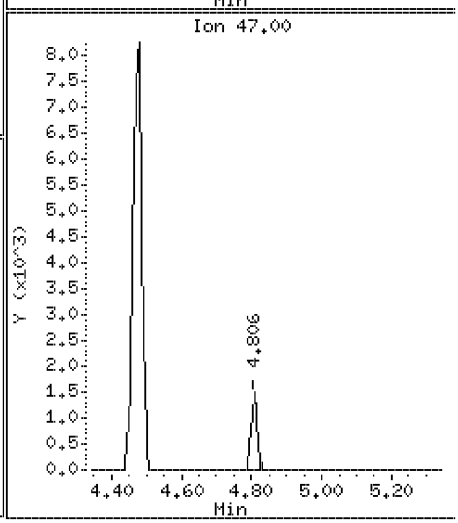












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

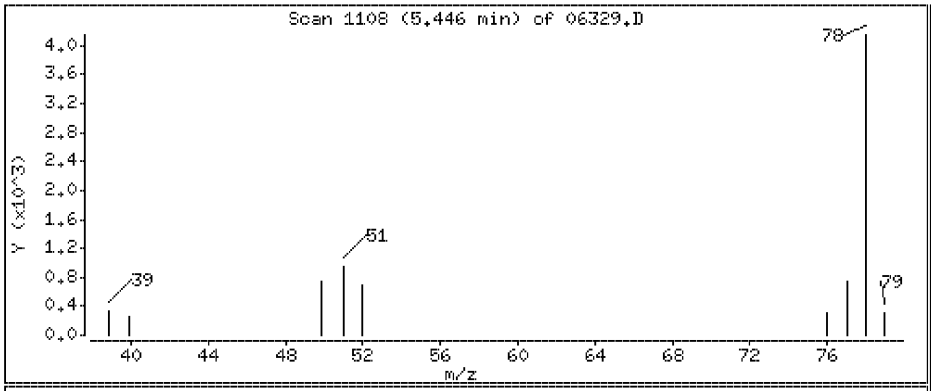
Operator: MJL

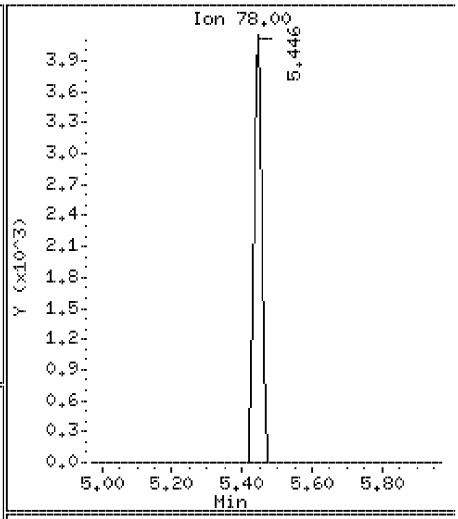
Column phase: J&W DB-5

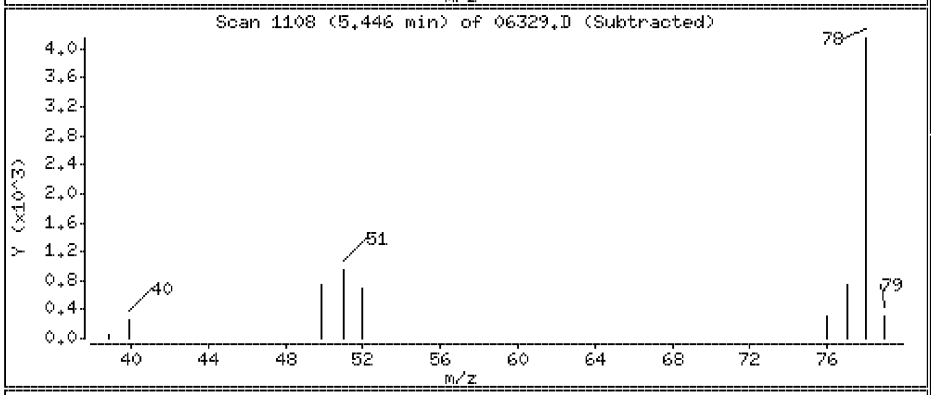
Column diameter: 0.32

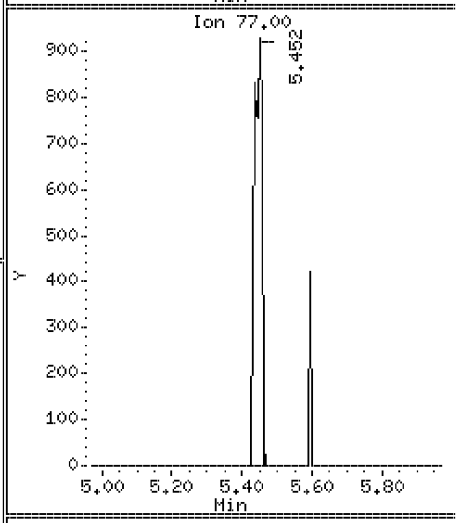
43 Benzene

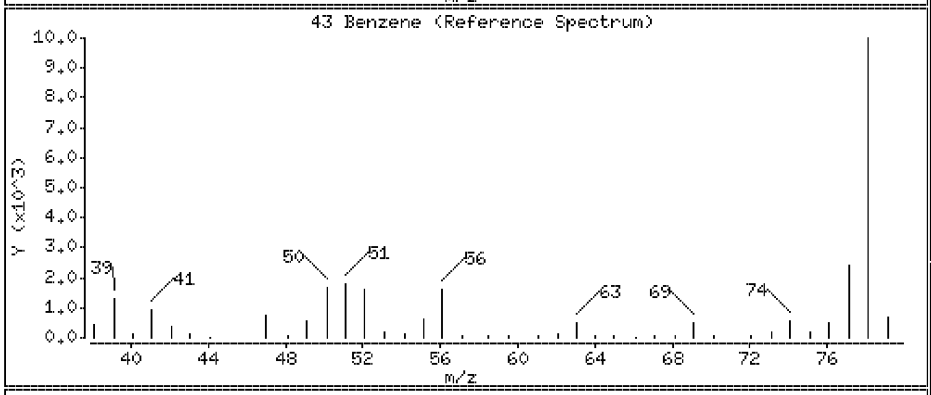
Concentration: 0.309 ppbv

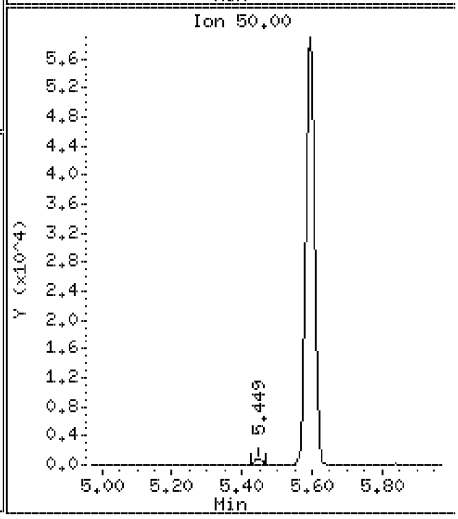


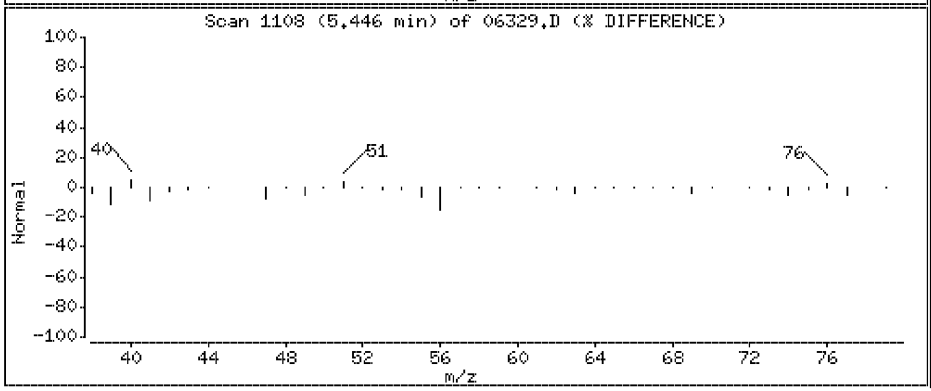












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

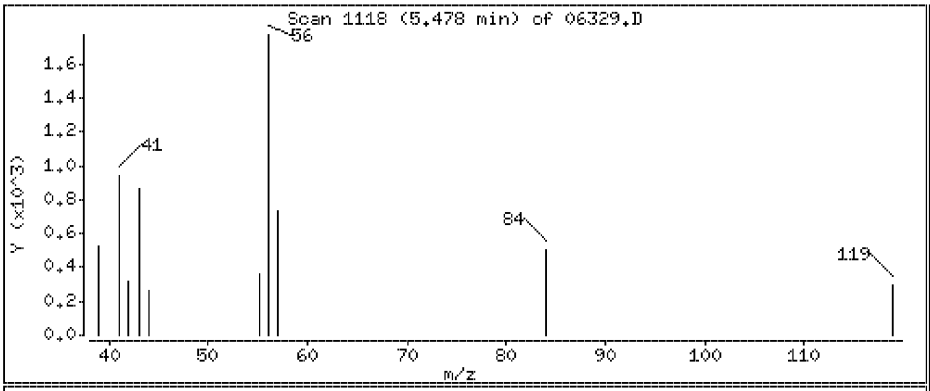
Operator: MJL

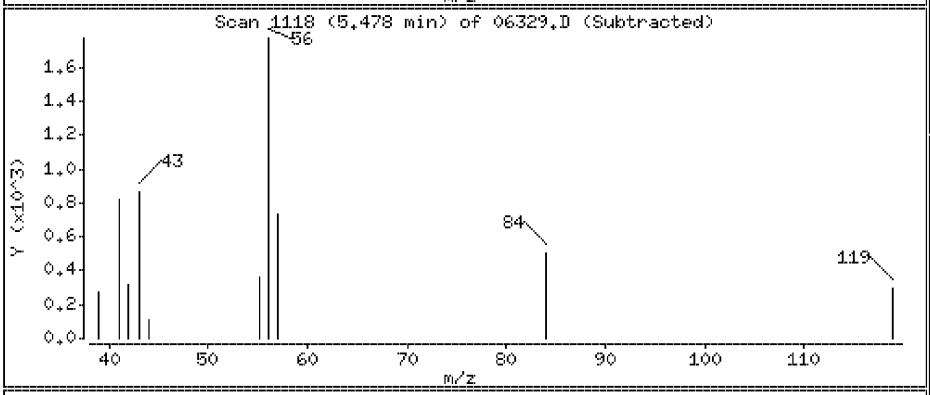
Column phase: J&W DB-5

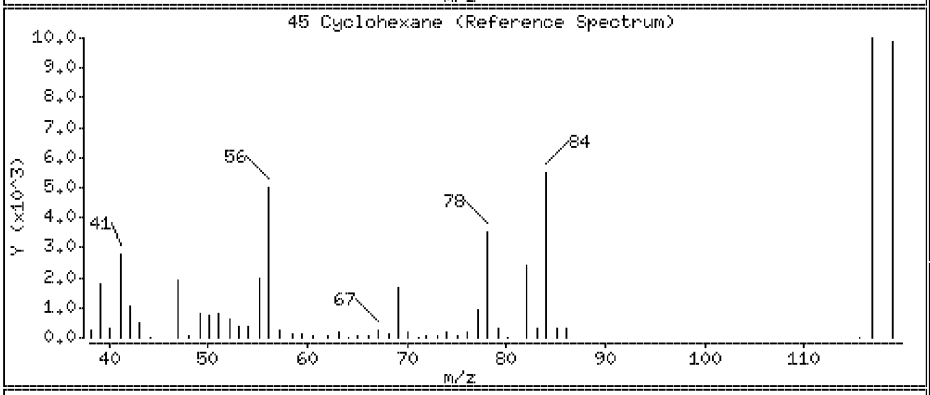
Column diameter: 0.32

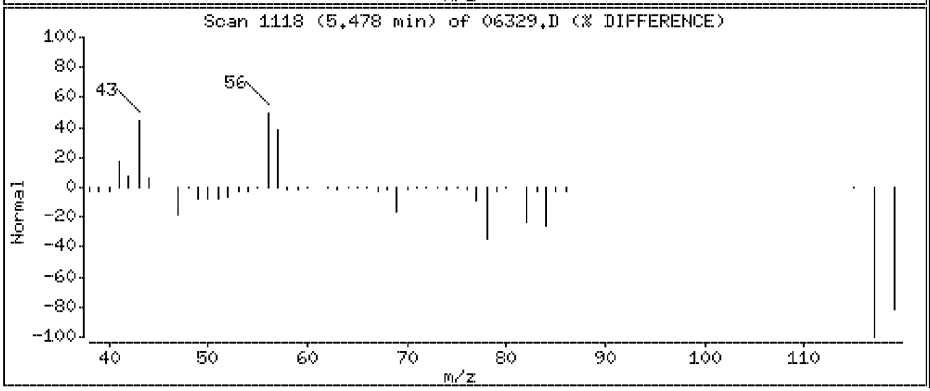
45 Cyclohexane

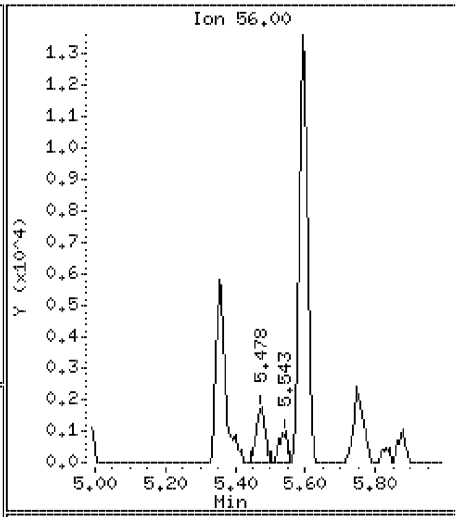
Concentration: 0.285 ppbv

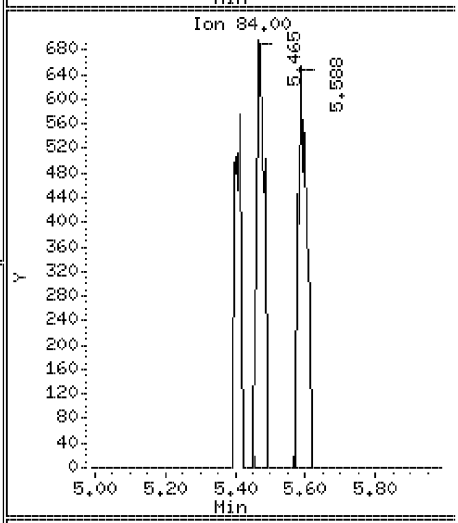


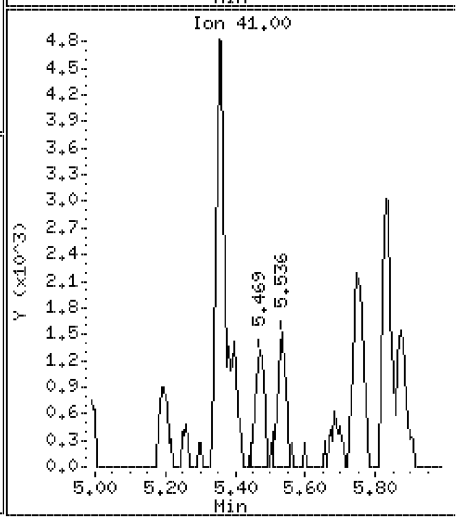












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

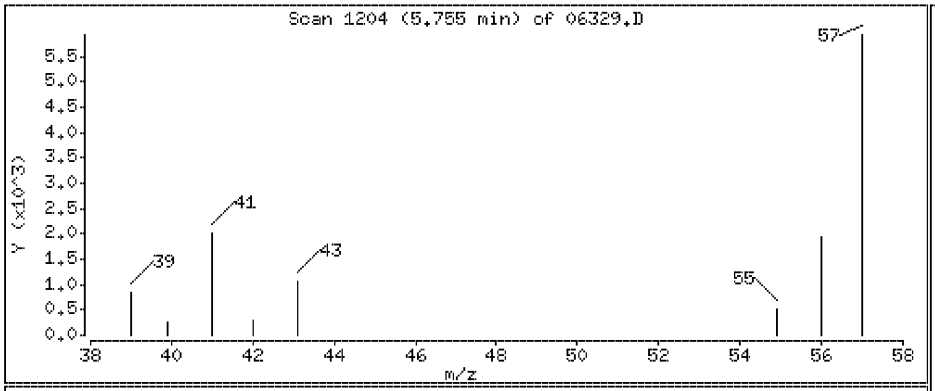
Operator: MJL

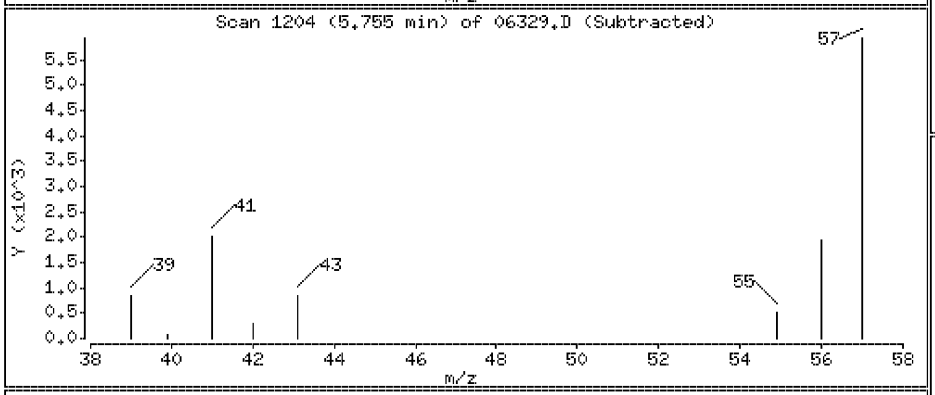
Column phase: J&W DB-5

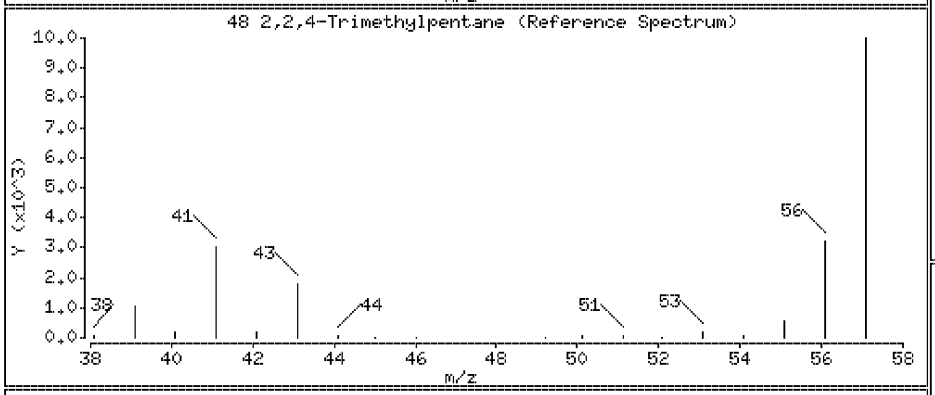
Column diameter: 0.32

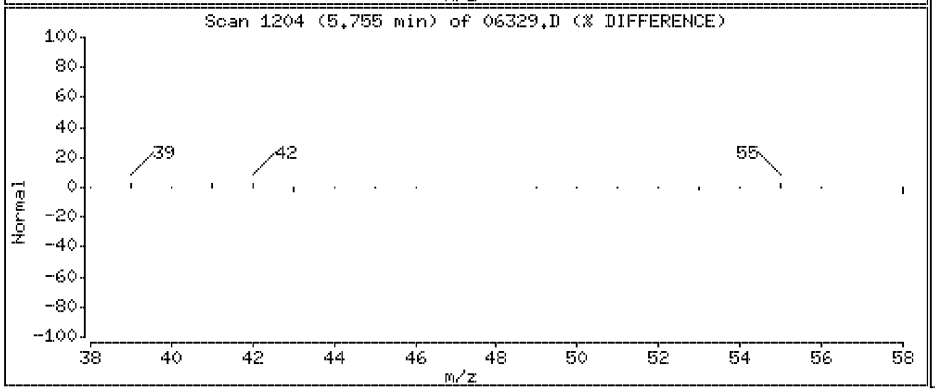
48 2,2,4-Trimethylpentane

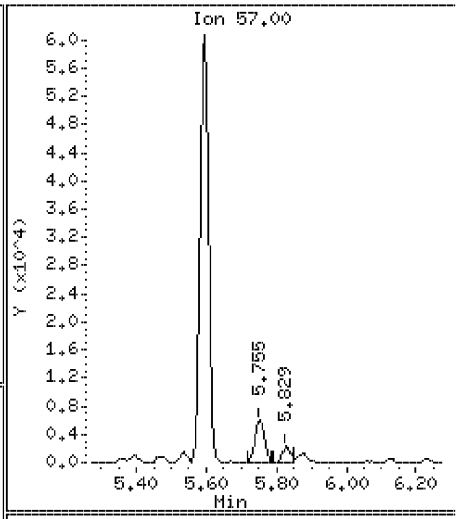
Concentration: 0.339 ppbv

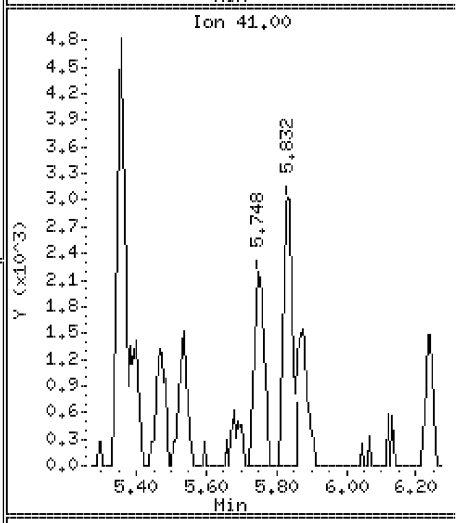


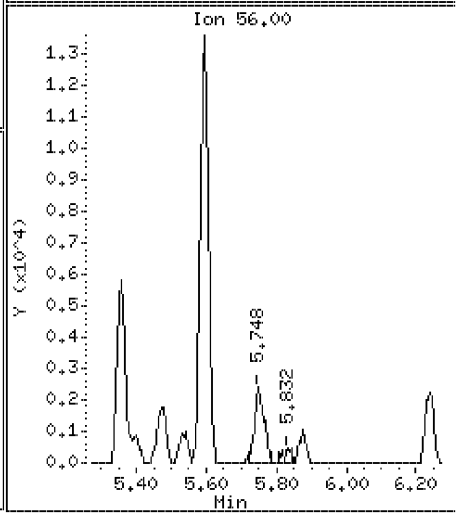












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

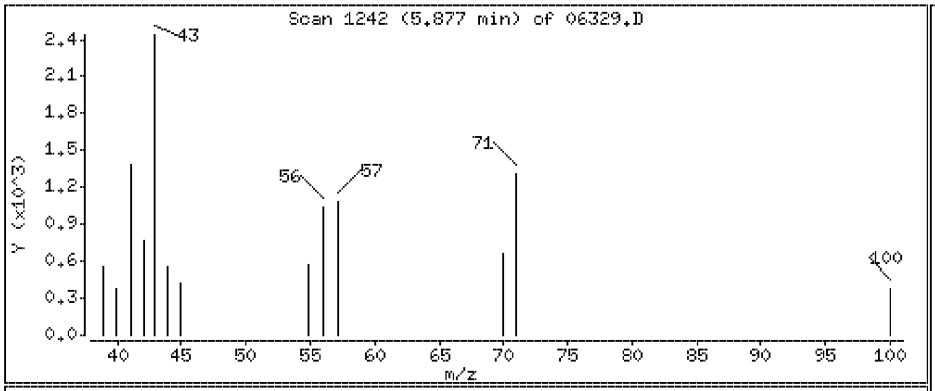
Operator: MJL

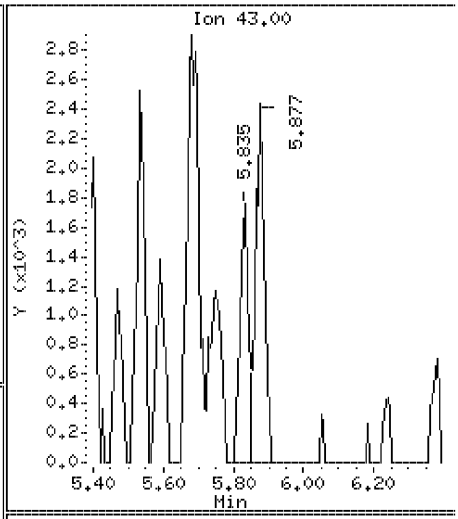
Column phase: J&W DB-5

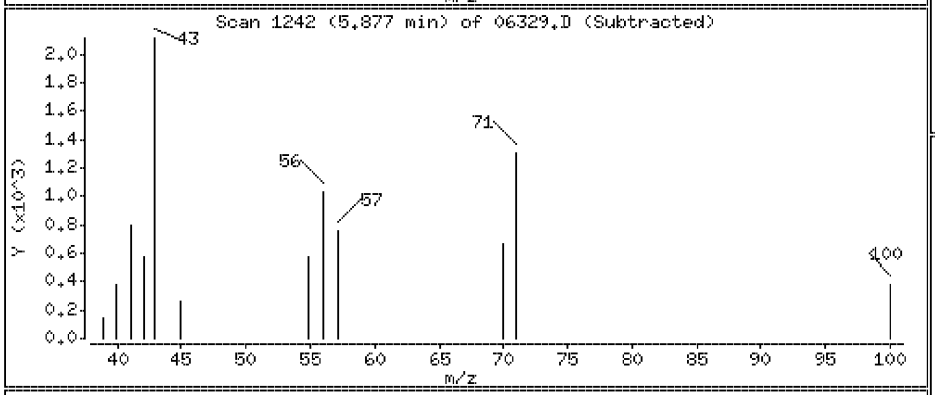
Column diameter: 0.32

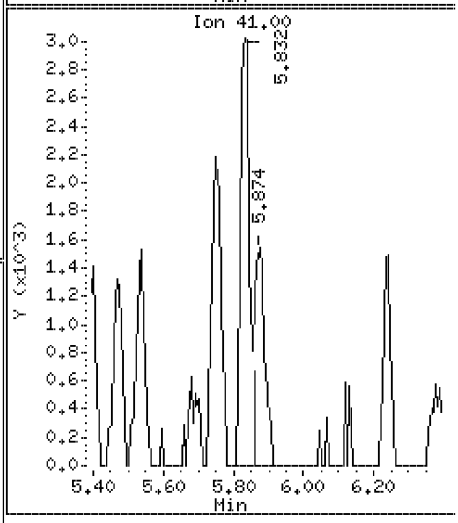
49 Heptane

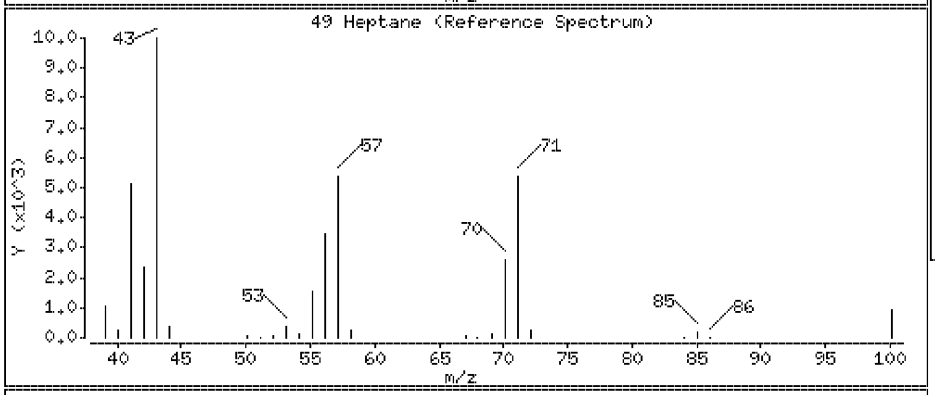
Concentration: 0.355 ppbv

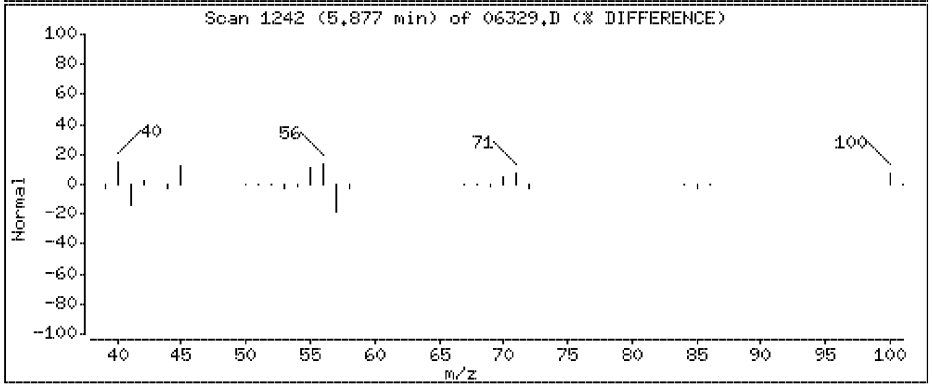












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

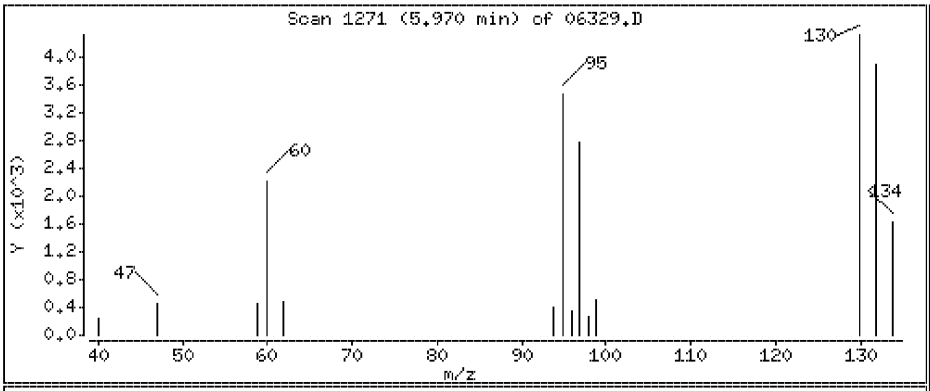
Operator: MJL

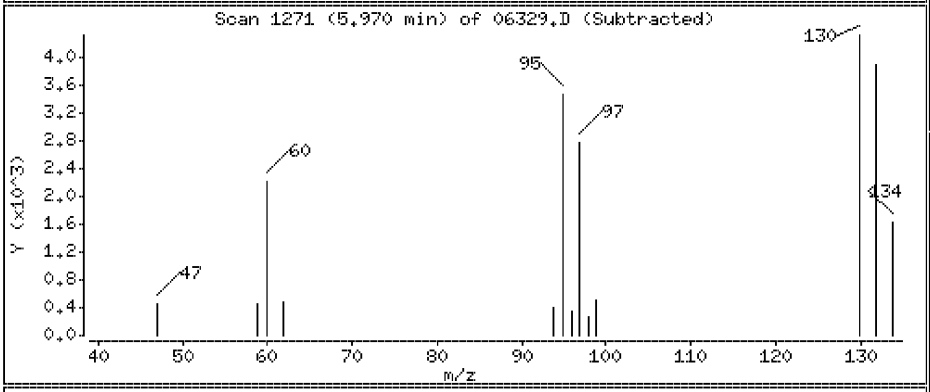
Column phase: J&W DB-5

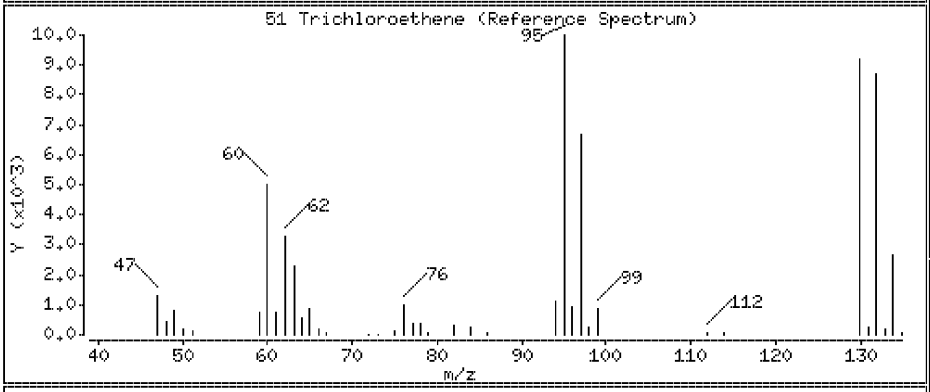
Column diameter: 0.32

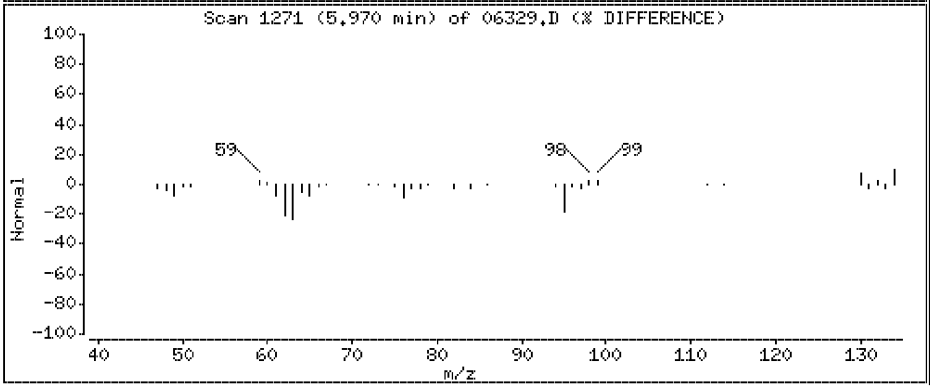
51 Trichloroethene

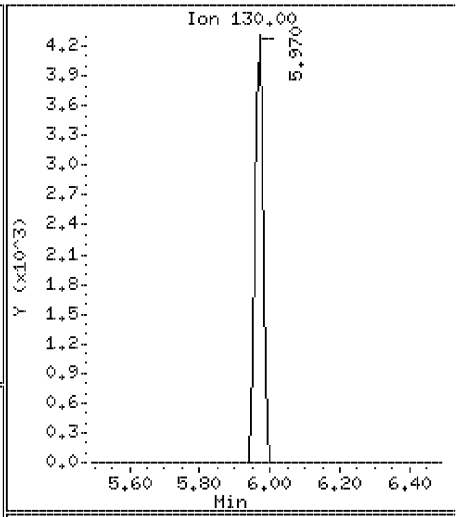
Concentration: 0.624 ppbv

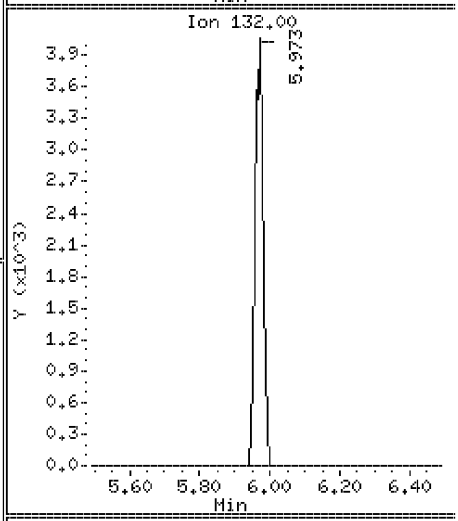


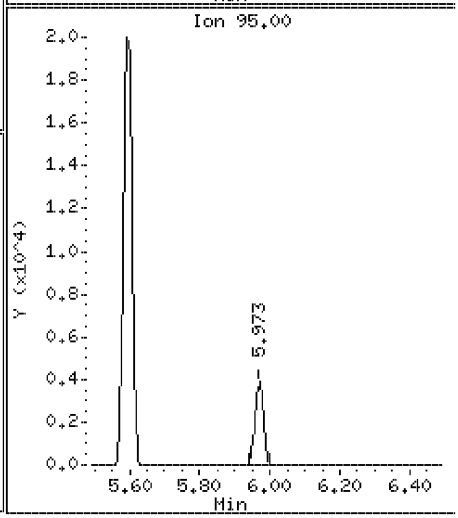












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

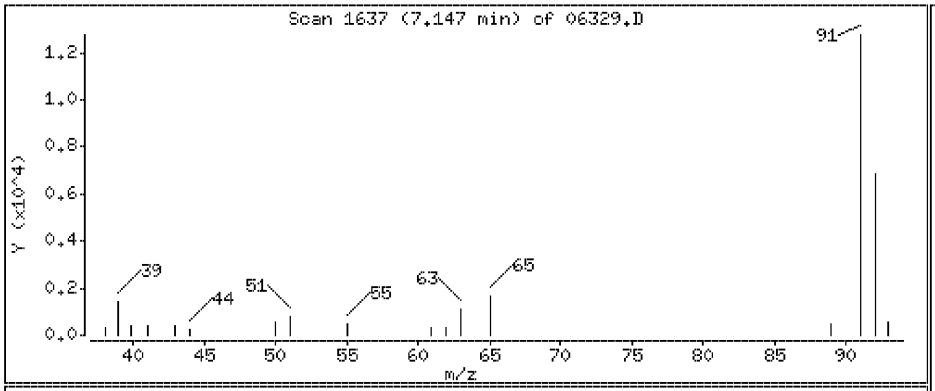
Operator: MJL

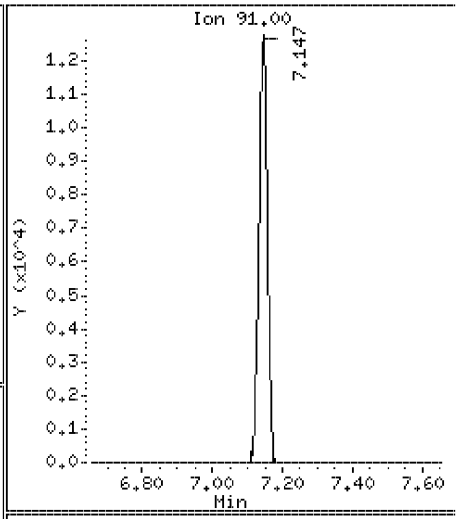
Column phase: J&W DB-5

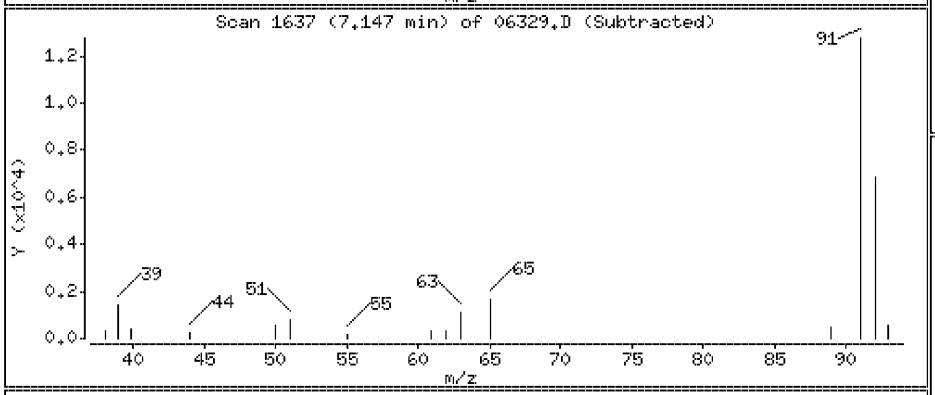
Column diameter: 0.32

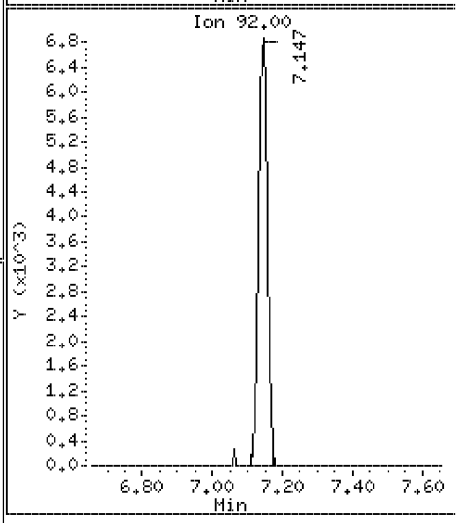
61 Toluene

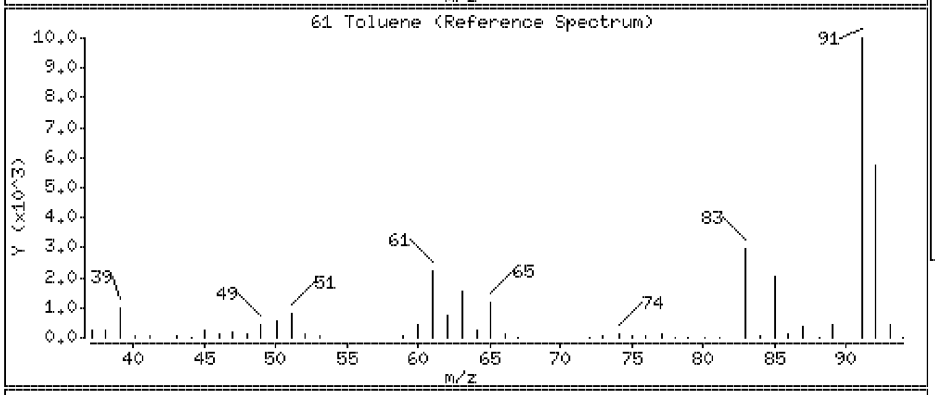
Concentration: 0.777 ppbv

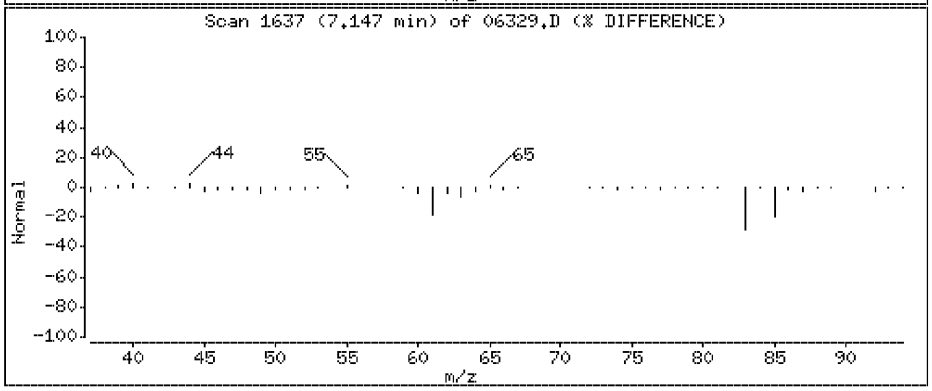












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

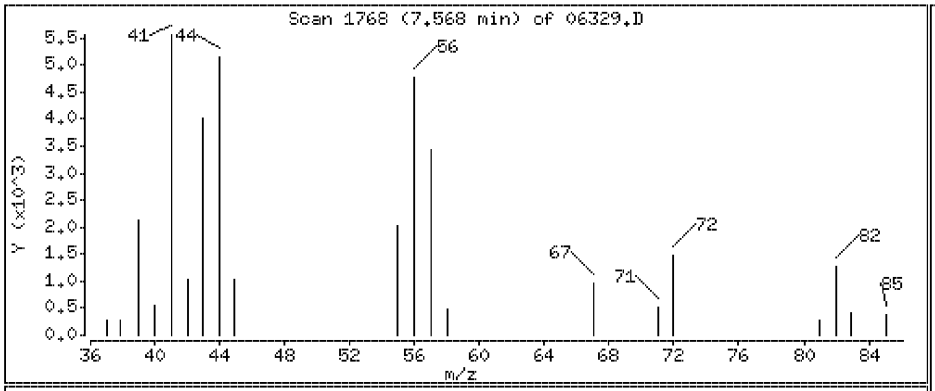
Operator: MJL

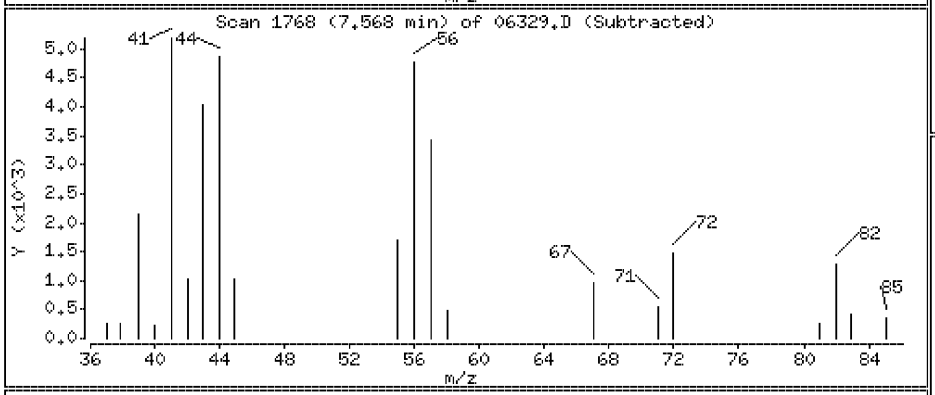
Column phase: J&W DB-5

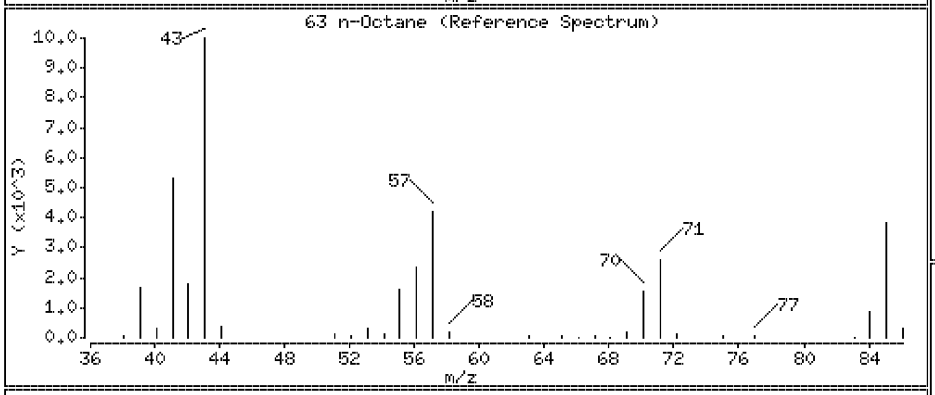
Column diameter: 0.32

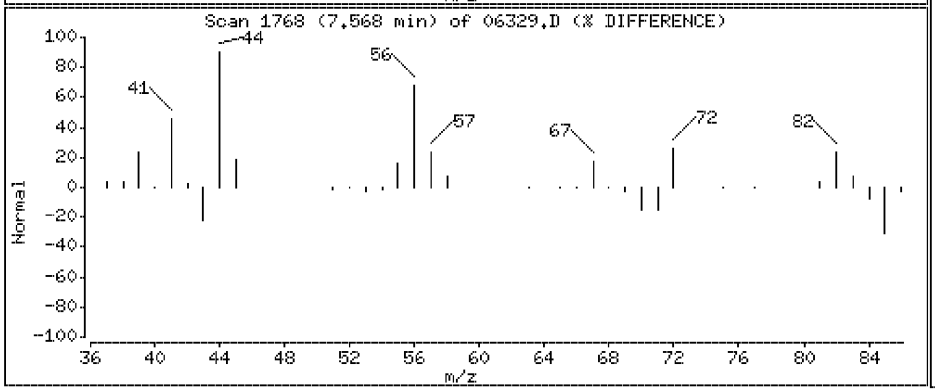
63 n-Octane

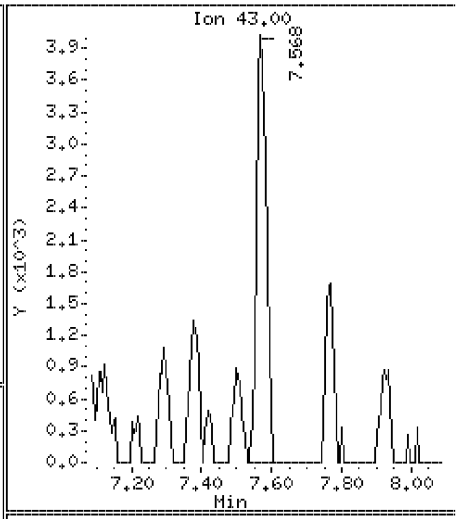
Concentration: 0.499 ppbv

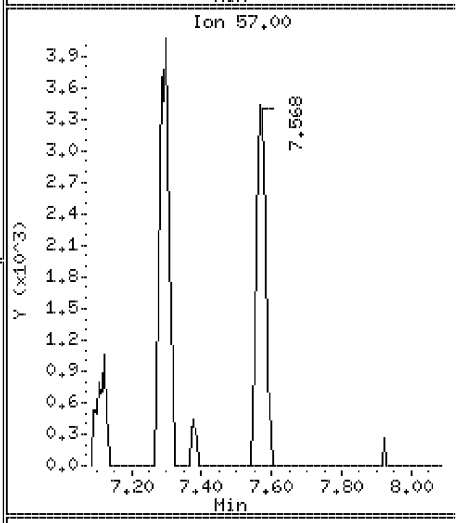


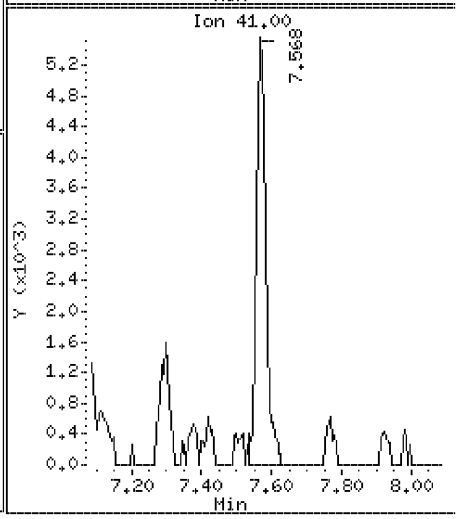












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

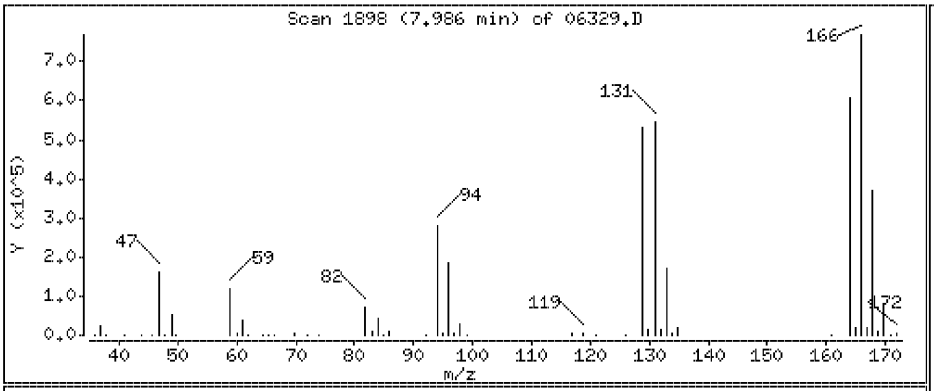
Operator: MJL

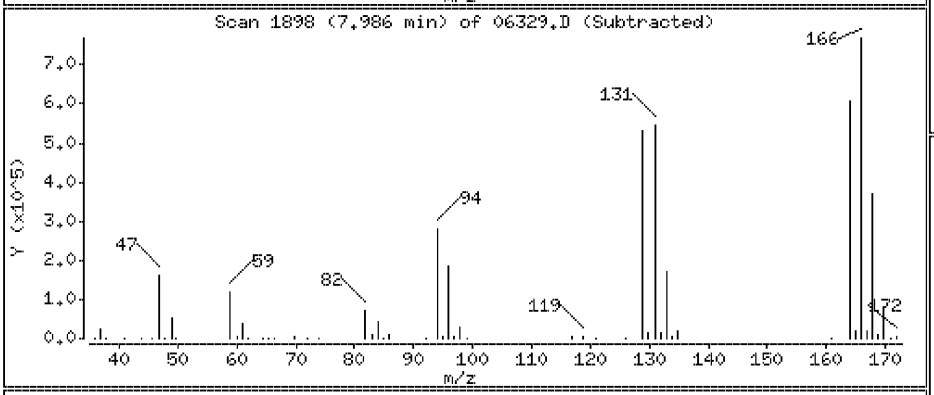
Column phase: J&W DB-5

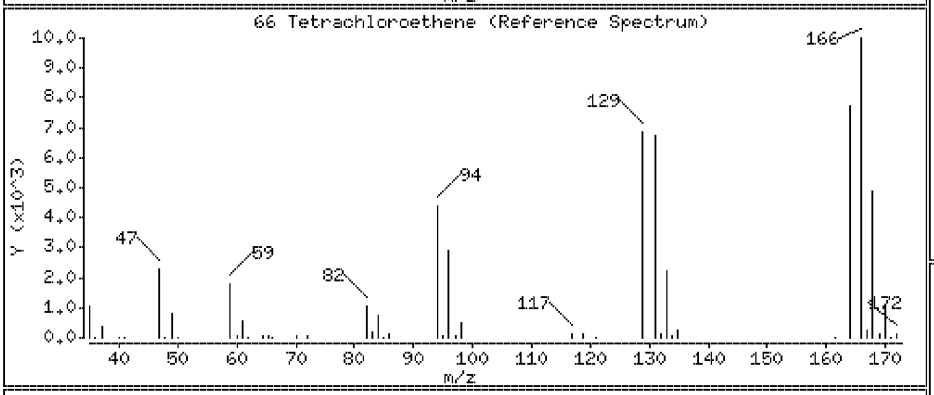
Column diameter: 0.32

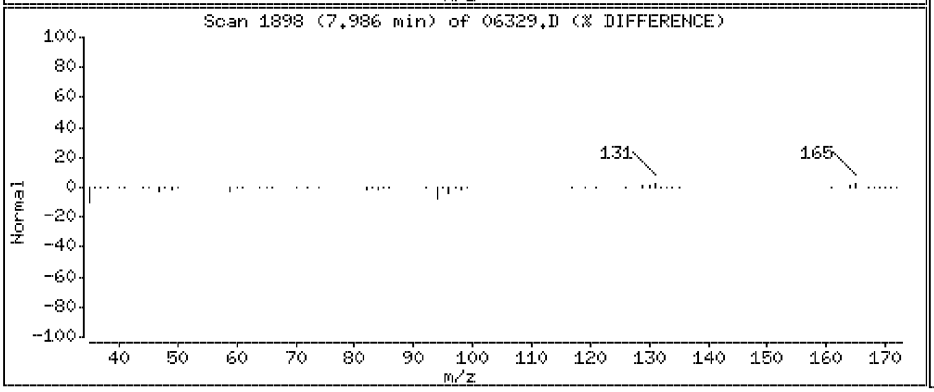
66 Tetrachloroethene

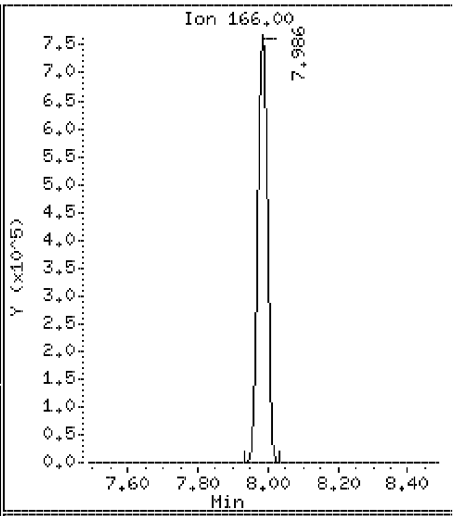
Concentration: 94.4 ppbv

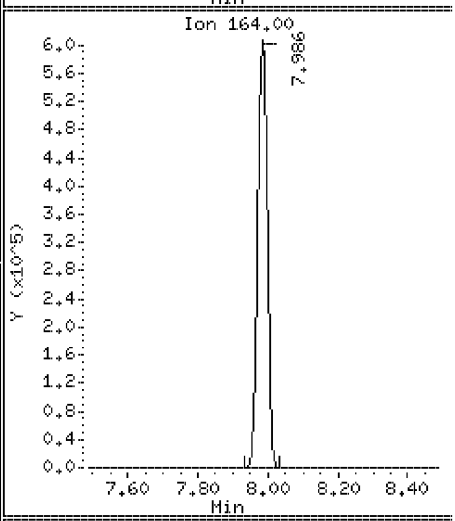


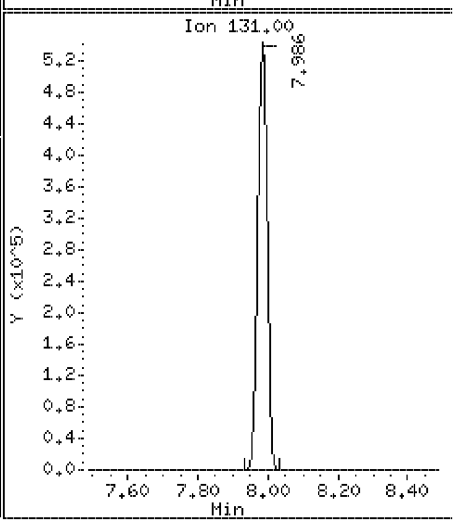












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

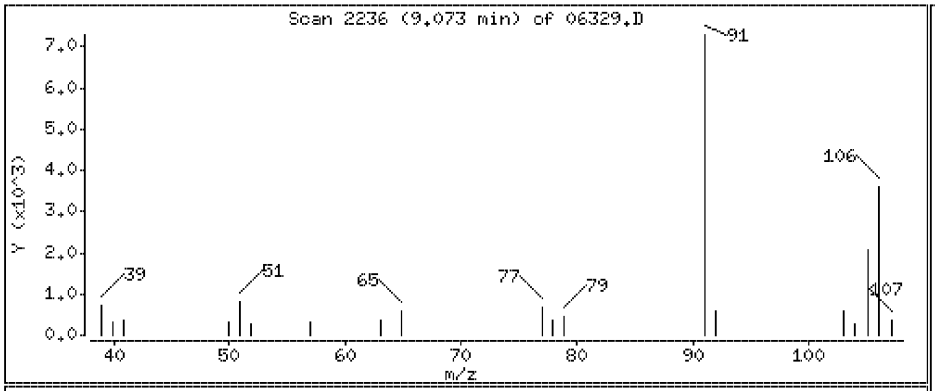
Operator: MJL

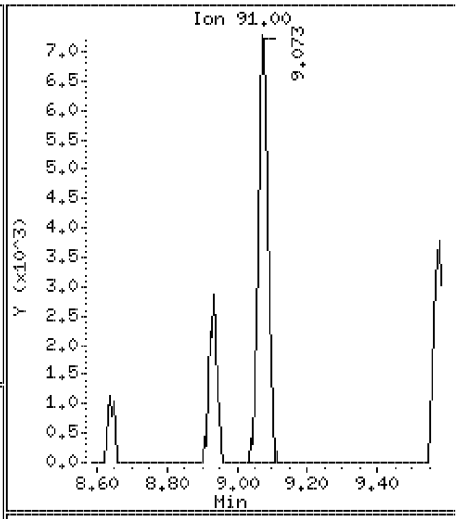
Column phase: J&W DB-5

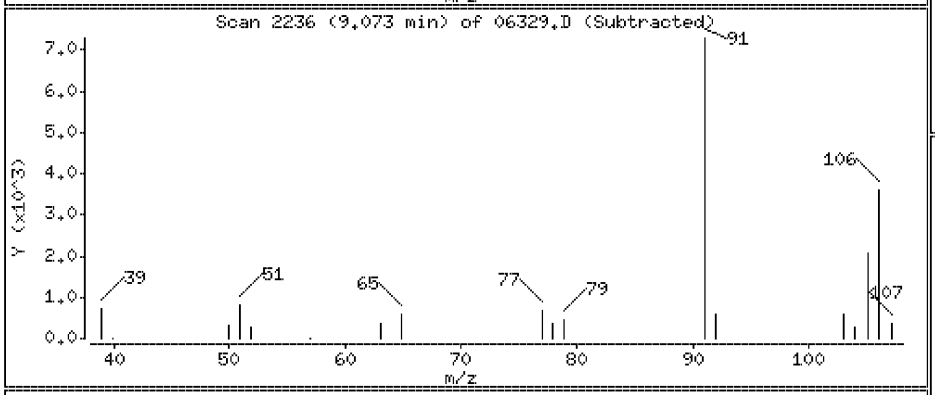
Column diameter: 0.32

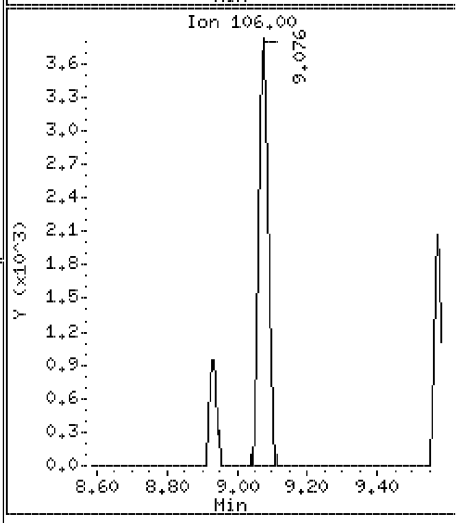
70 m&p-Xylene

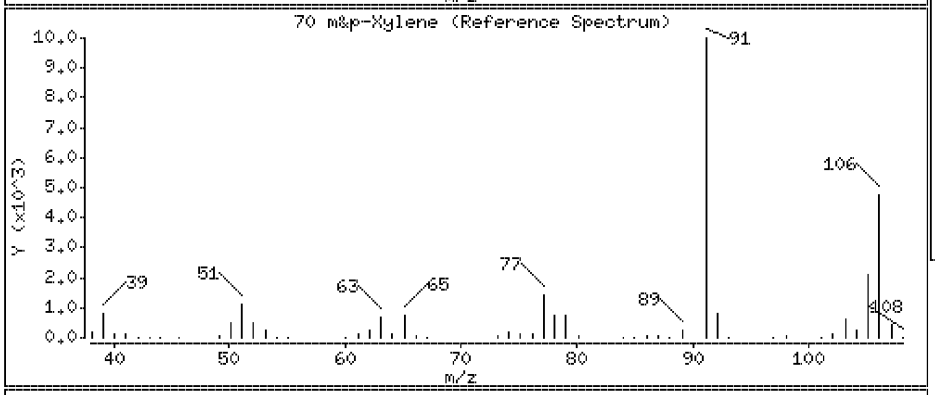
Concentration: 0.529 ppbv

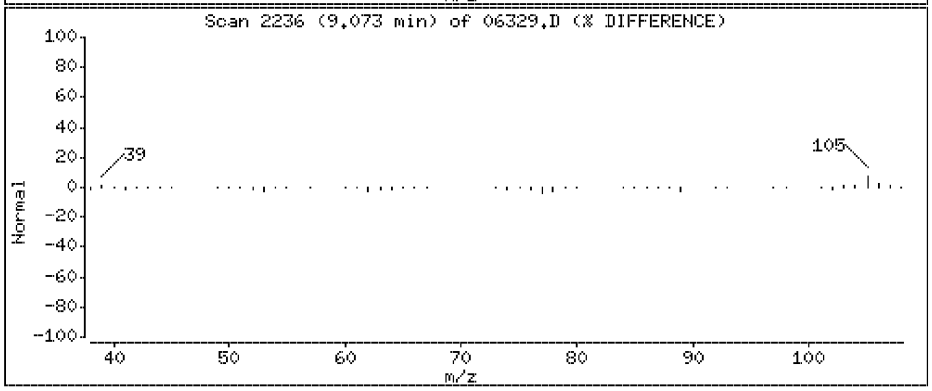












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

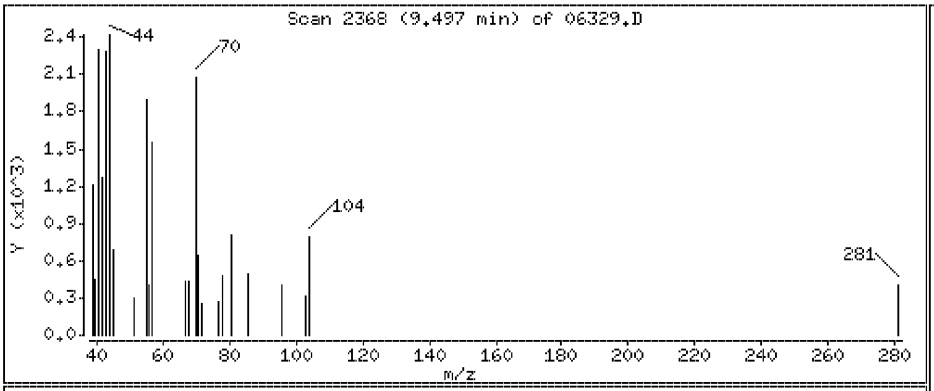
Operator: MJL

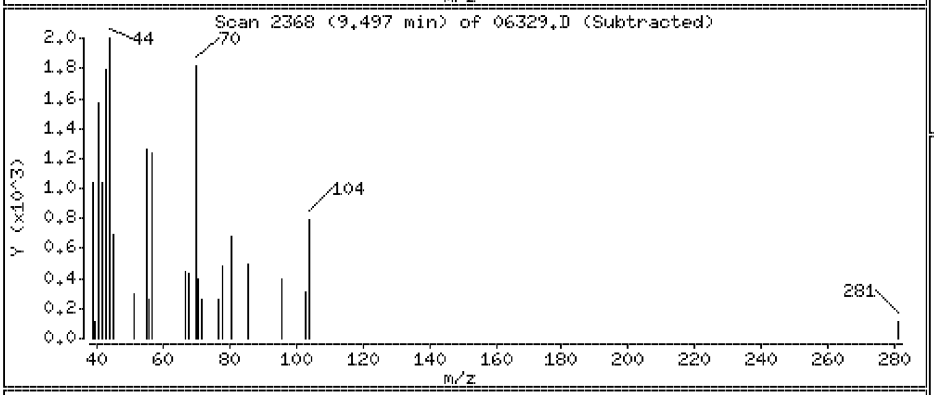
Column phase: J&W DB-5

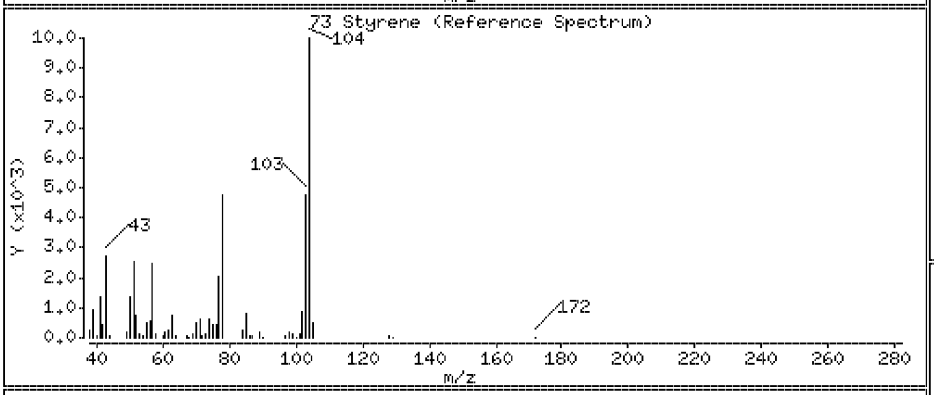
Column diameter: 0.32

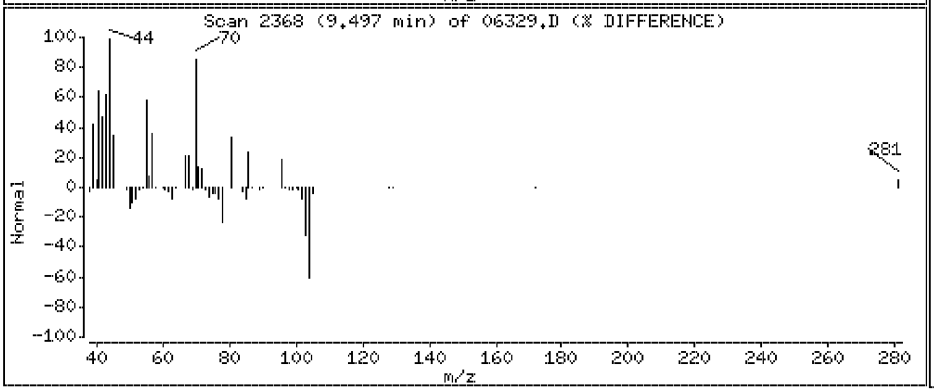
73 Styrene

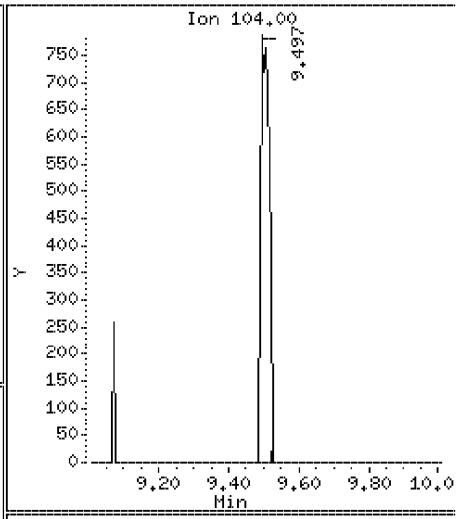
Concentration: 0.204 ppbv

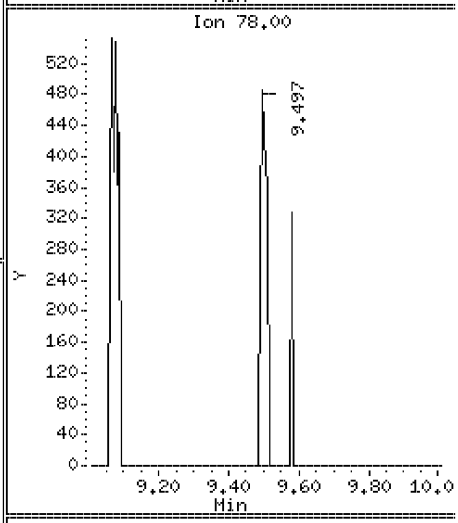


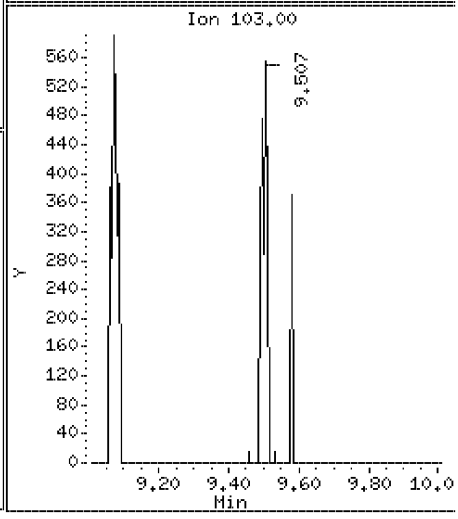












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

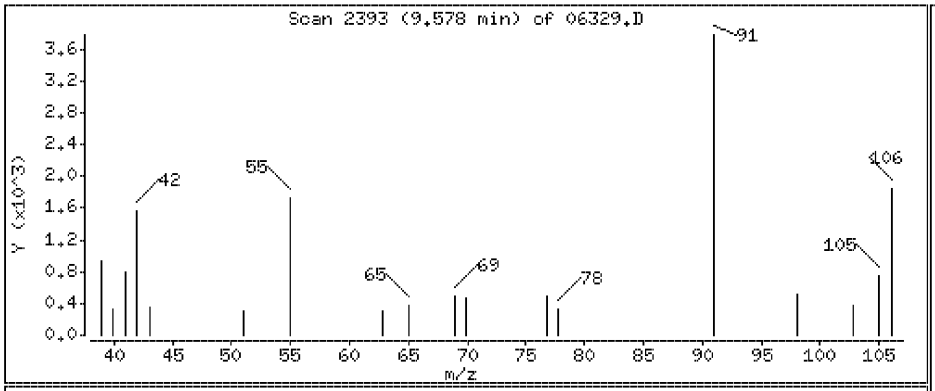
Operator: MJL

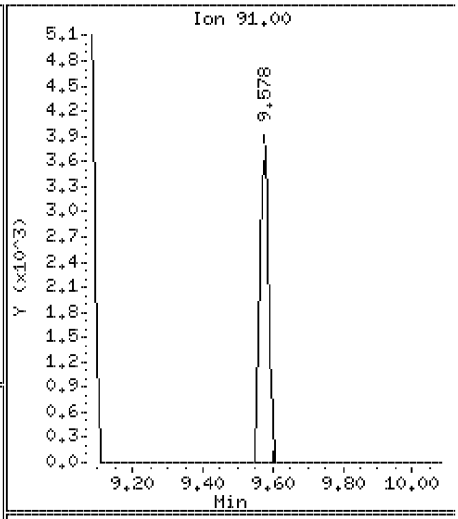
Column phase: J&W DB-5

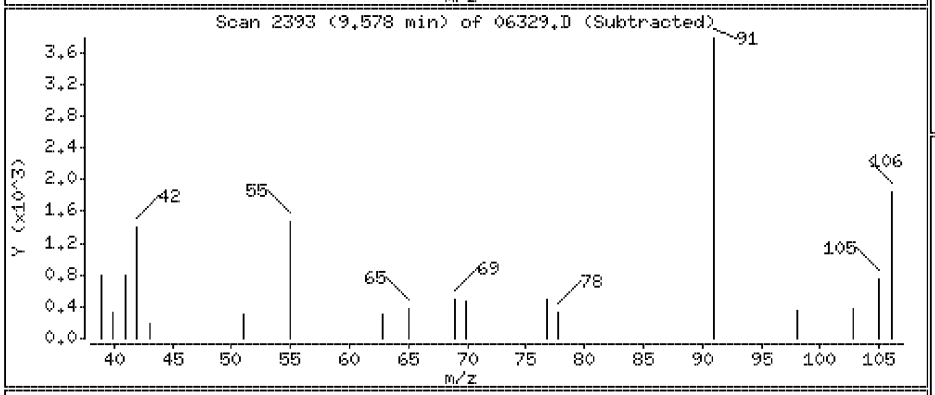
Column diameter: 0.32

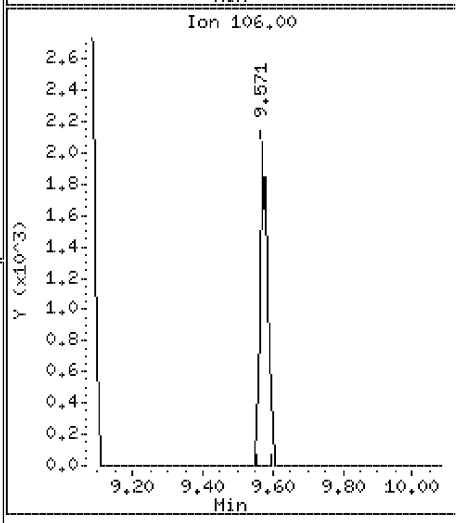
74 o-Xylene

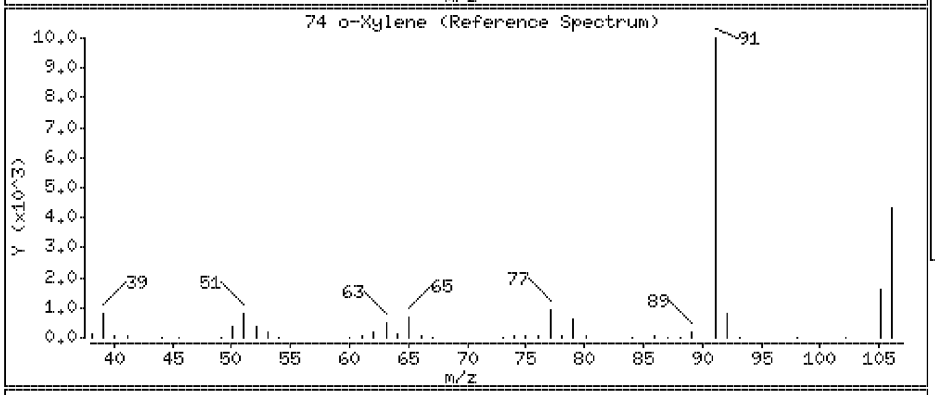
Concentration: 0.247 ppbv

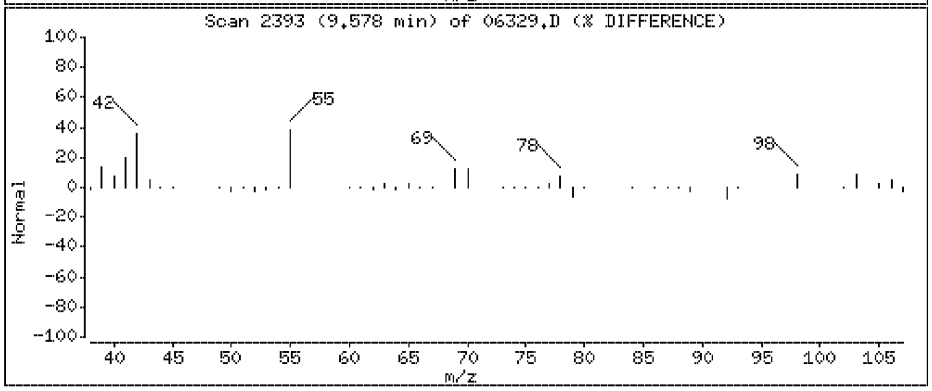












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

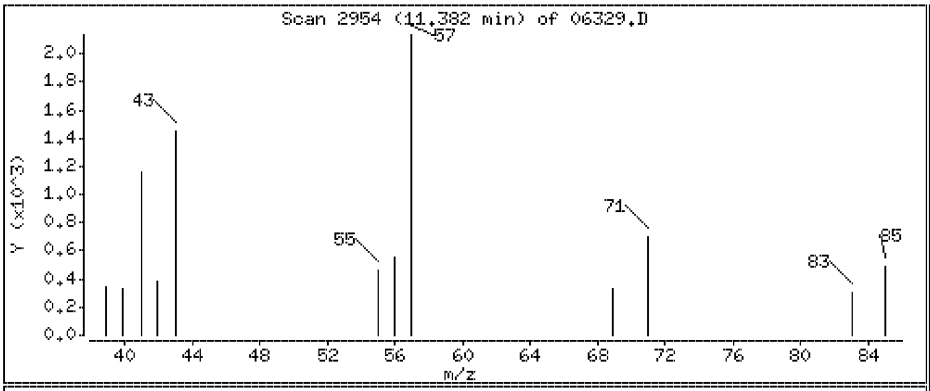
Operator: MJL

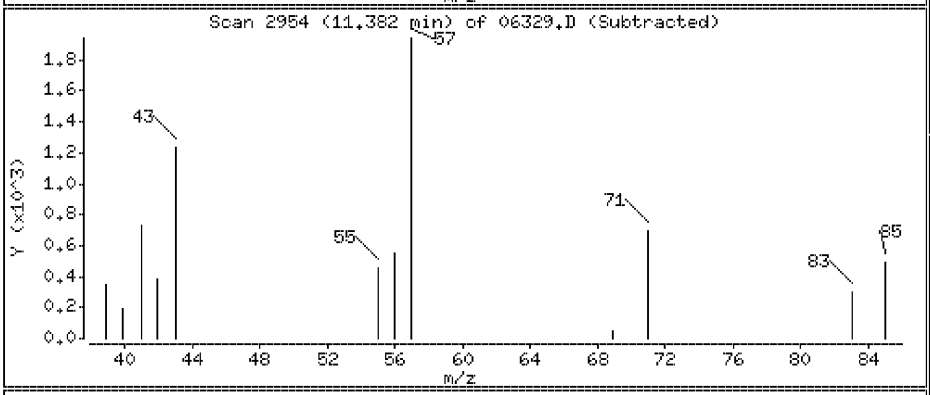
Column phase: J&W DB-5

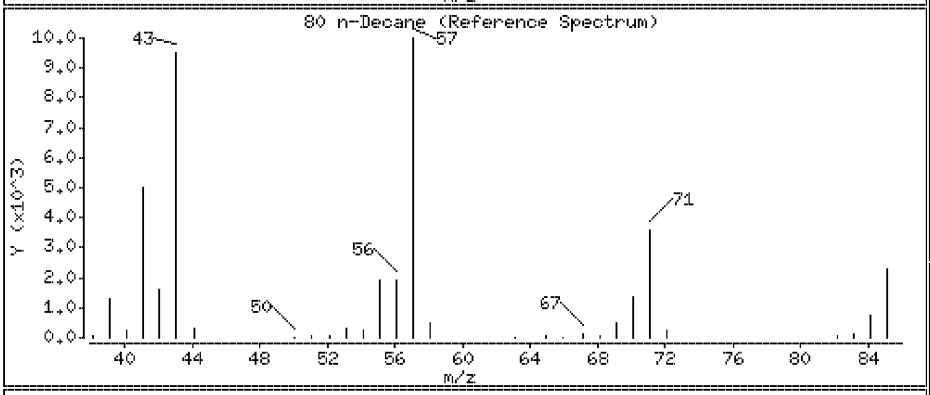
Column diameter: 0.32

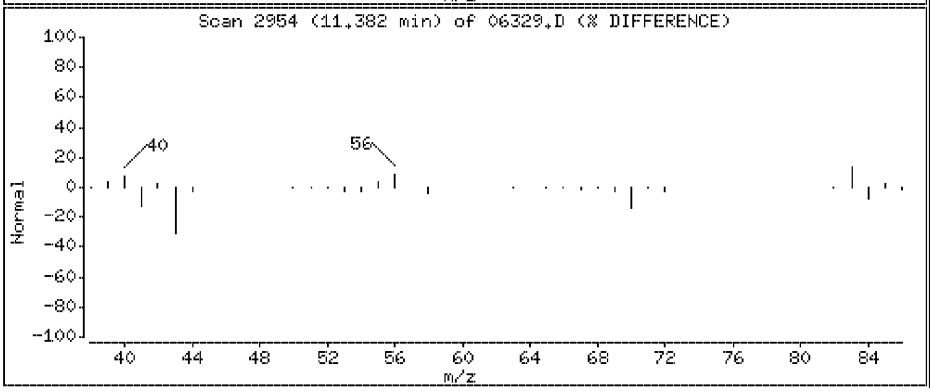
80 n-Decane

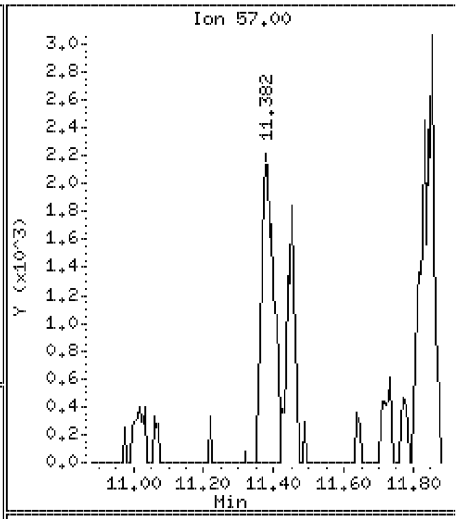
Concentration: 0.767 ppbv

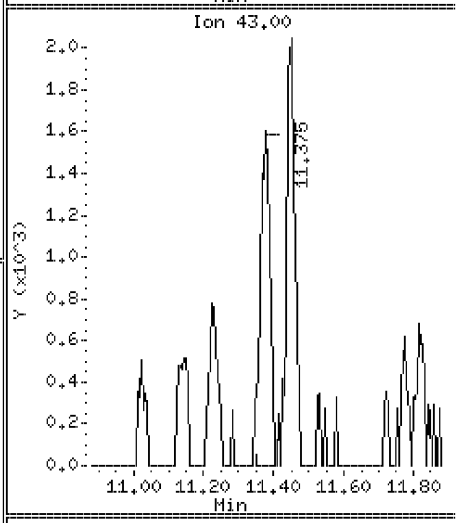


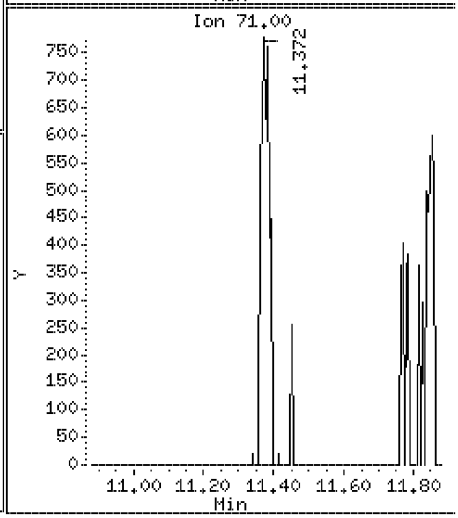












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

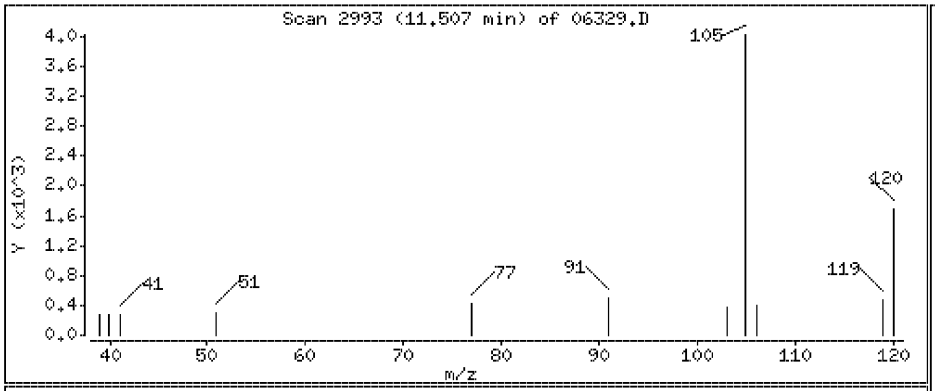
Operator: MJL

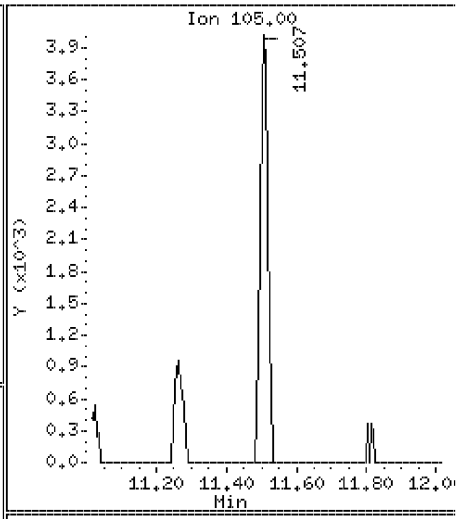
Column phase: J&W DB-5

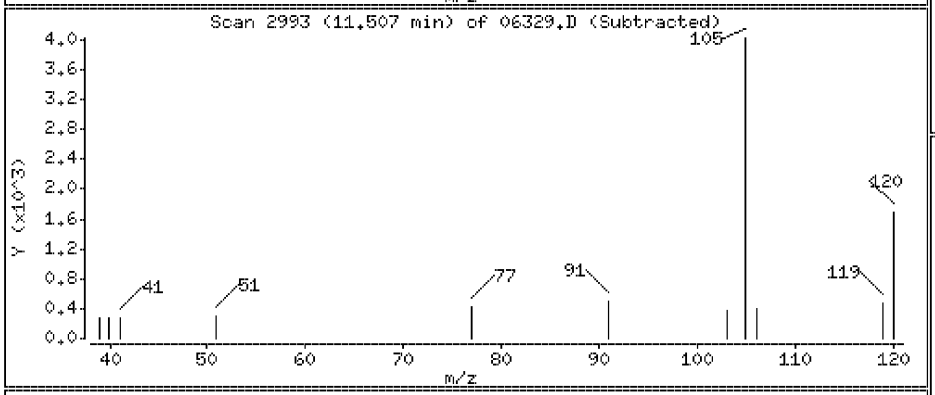
Column diameter: 0.32

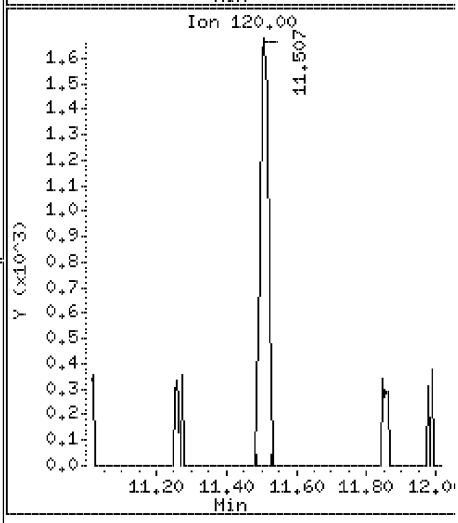
82 1,2,4-Trimethylbenzene

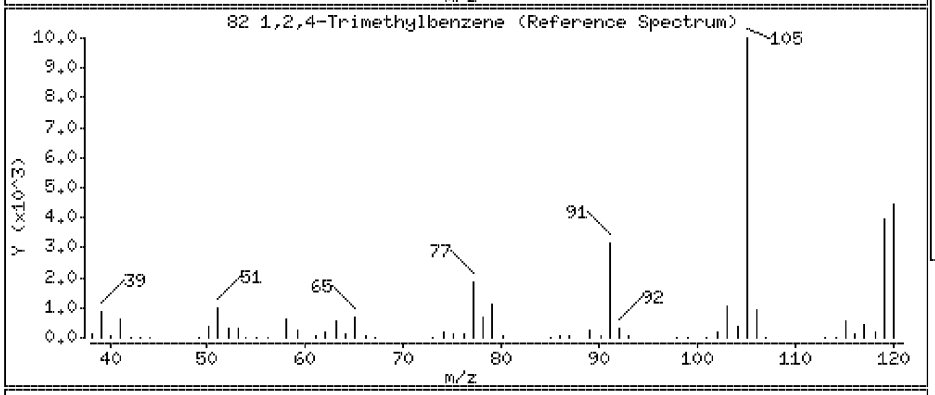
Concentration: 0.230 ppbv

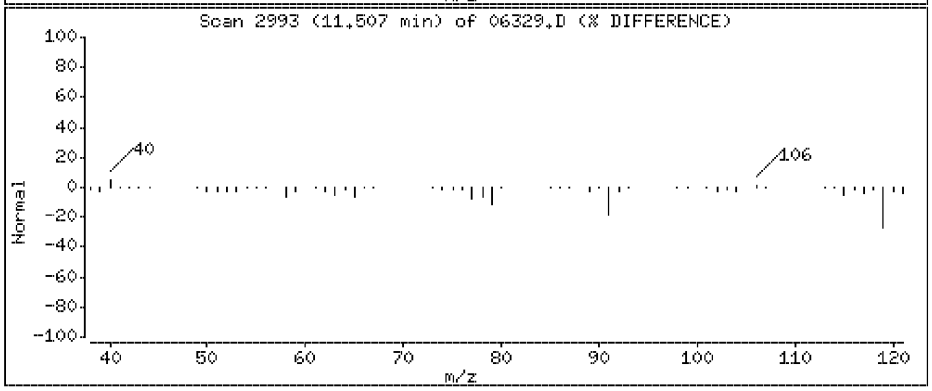












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06329.D

Date : 04-MAR-2017 21:16

Client ID:

Instrument: 10airB.i

Sample Info:

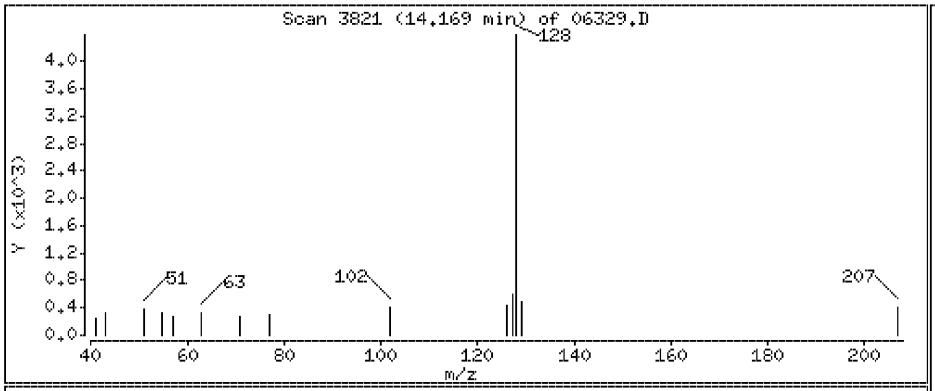
Operator: MJL

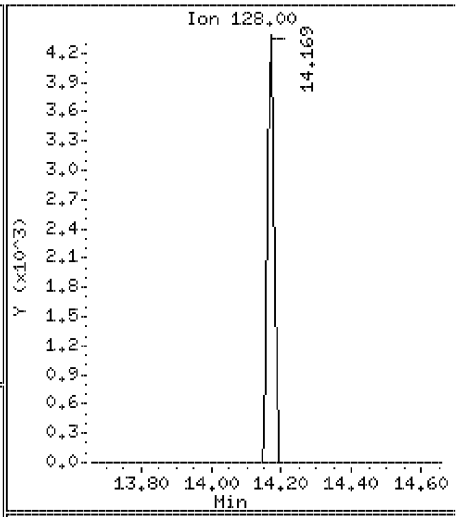
Column phase: J&W DB-5

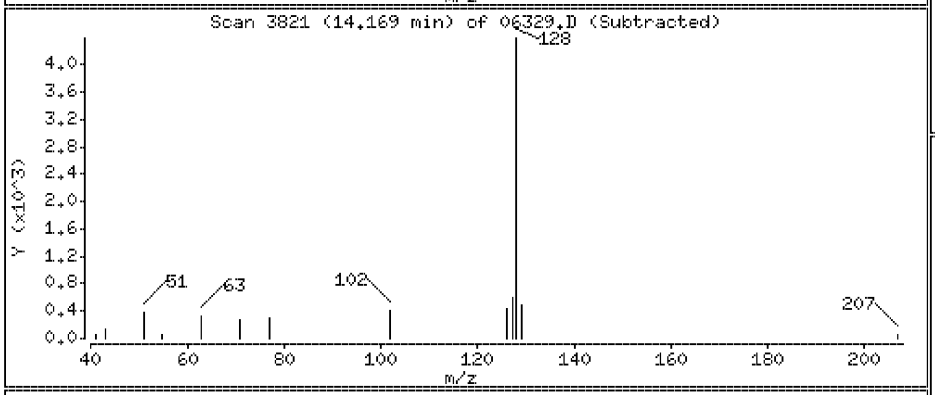
Column diameter: 0.32

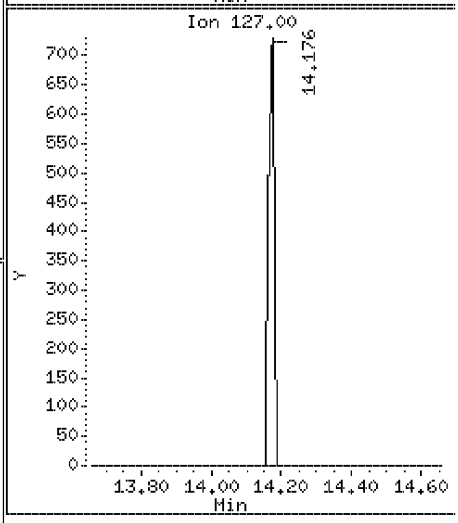
94 Naphthalene

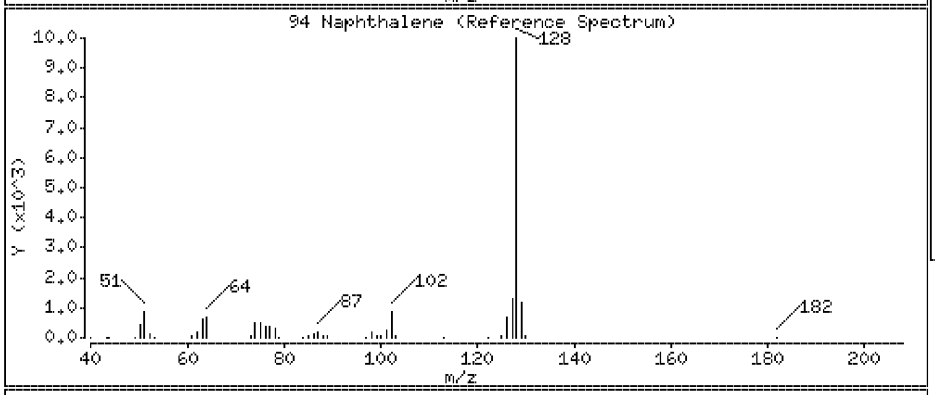
Concentration: 0.960 ppbv

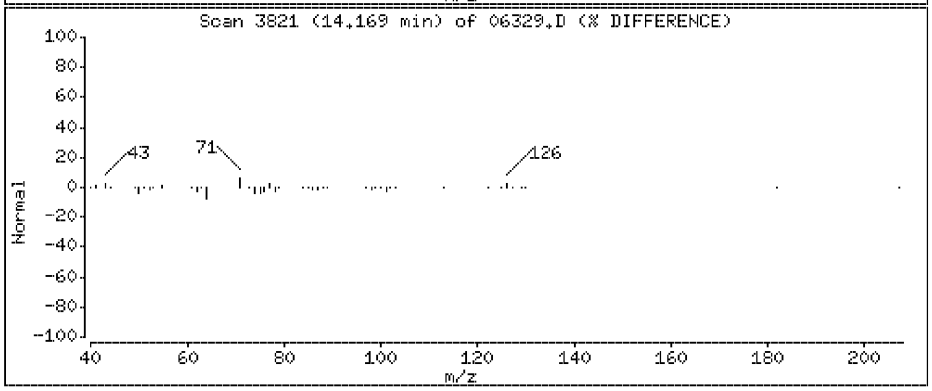






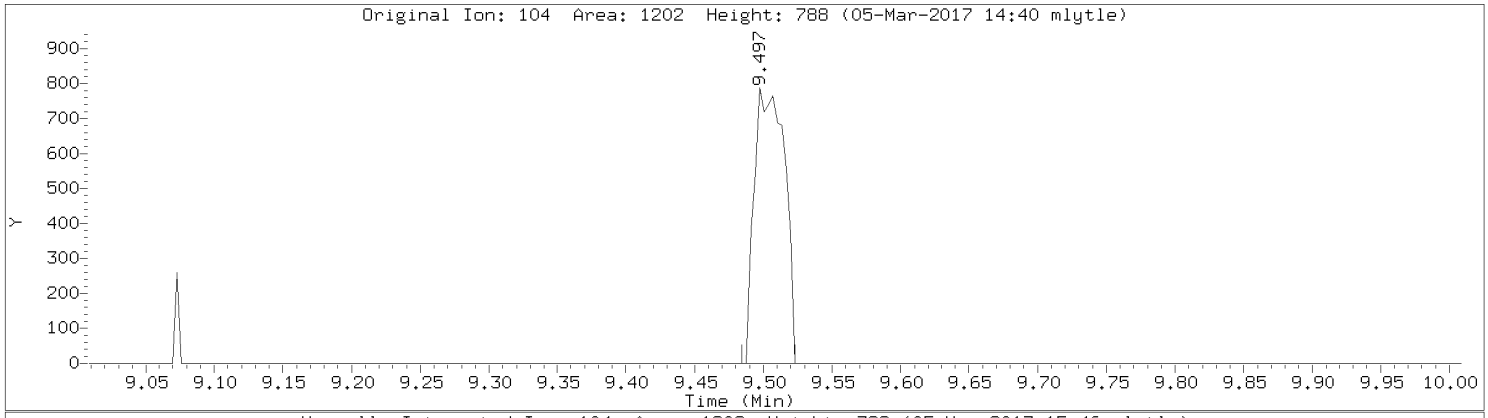


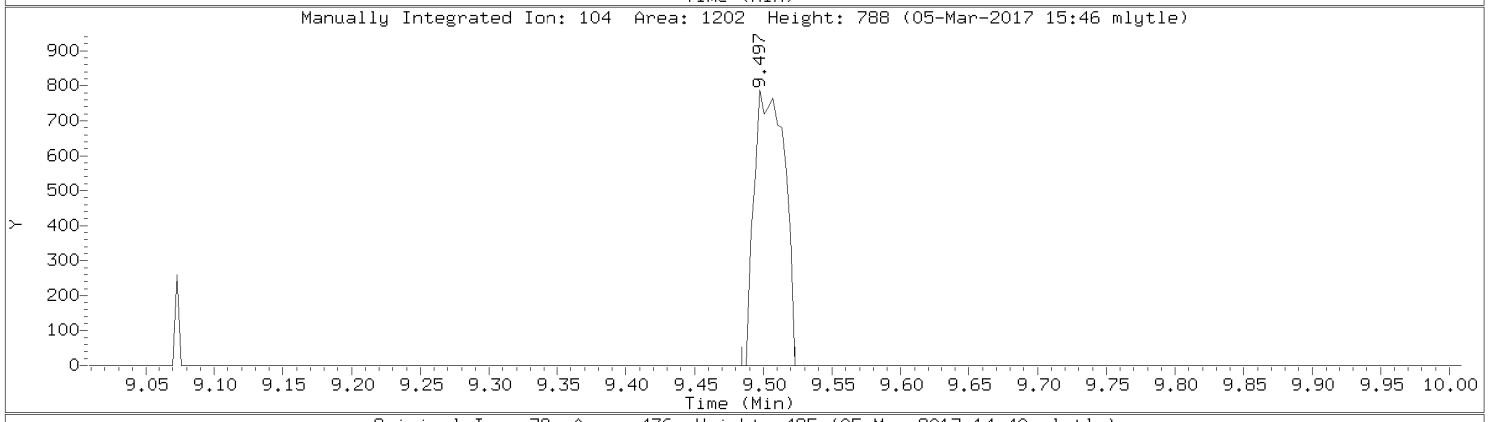


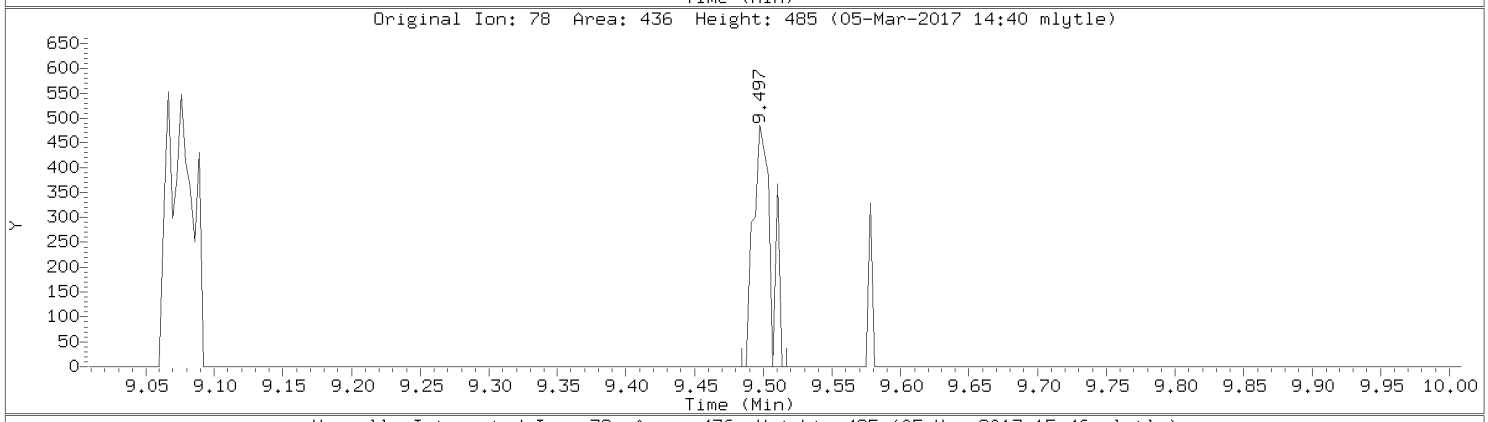


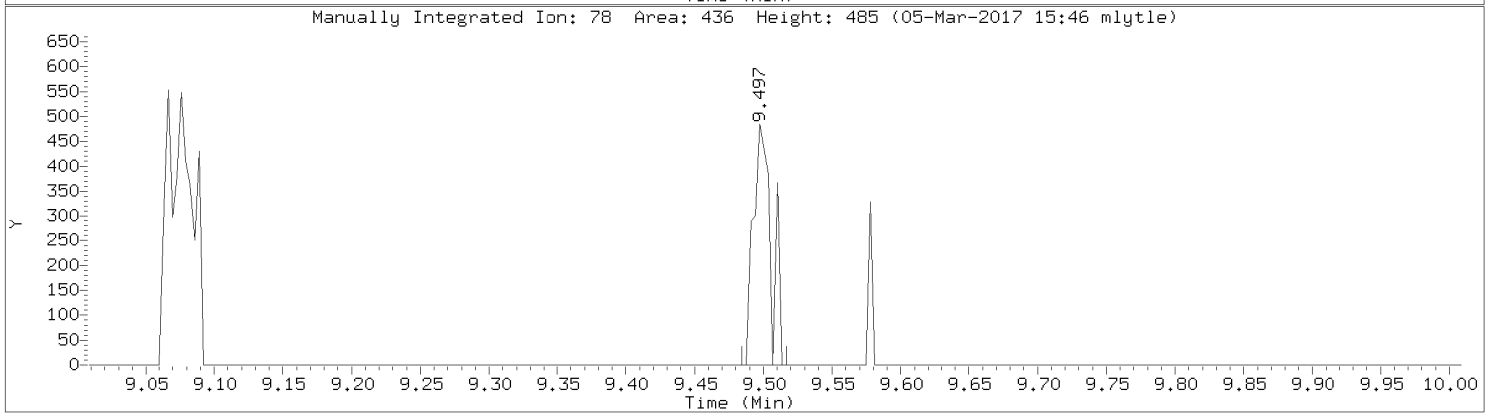
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06329.D
Injection Date: 04-MAR-2017 21:16
Instrument: 10airB.i
Lab Sample ID: 10379458003

Compound: Styrene
CAS Number: 100-42-5

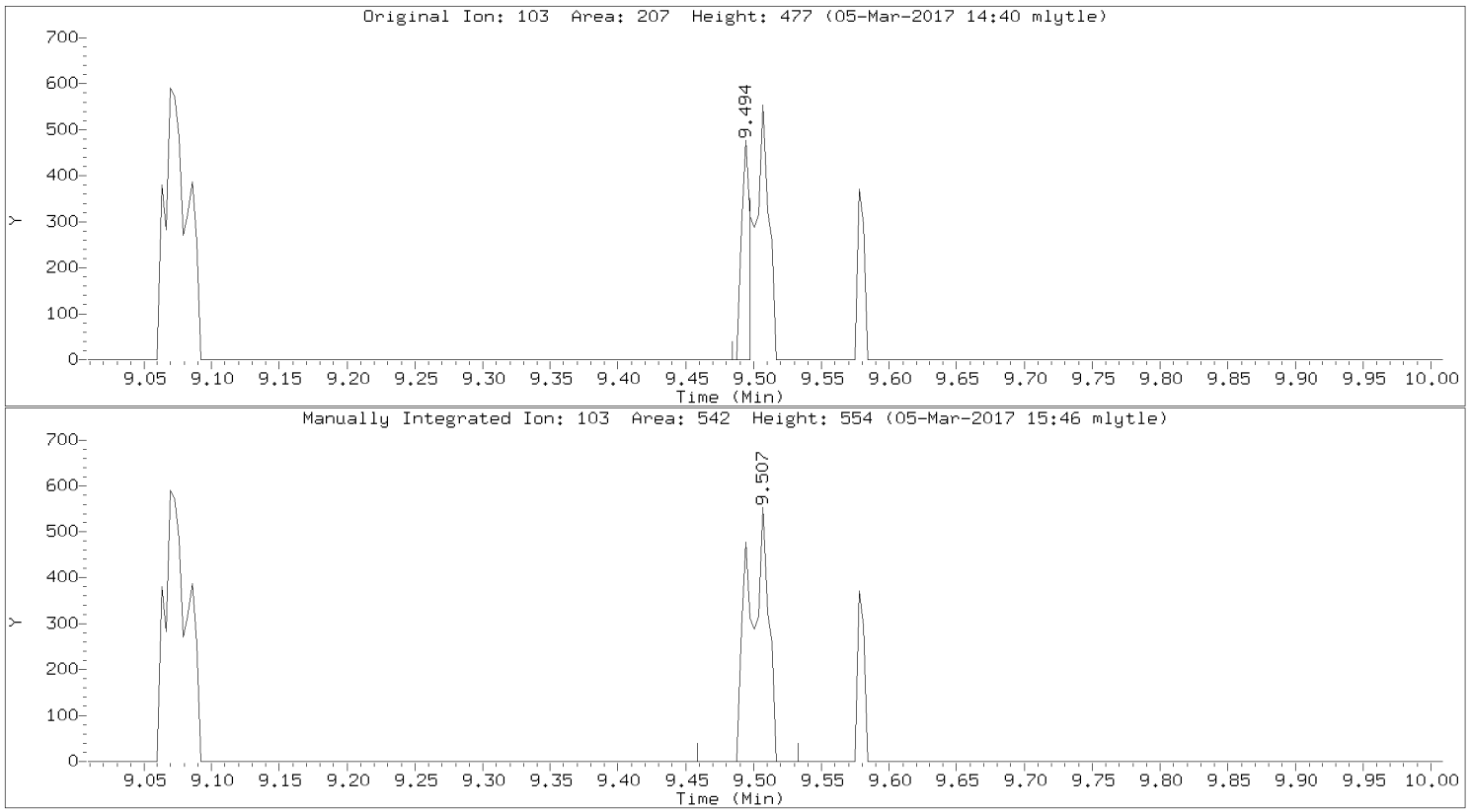






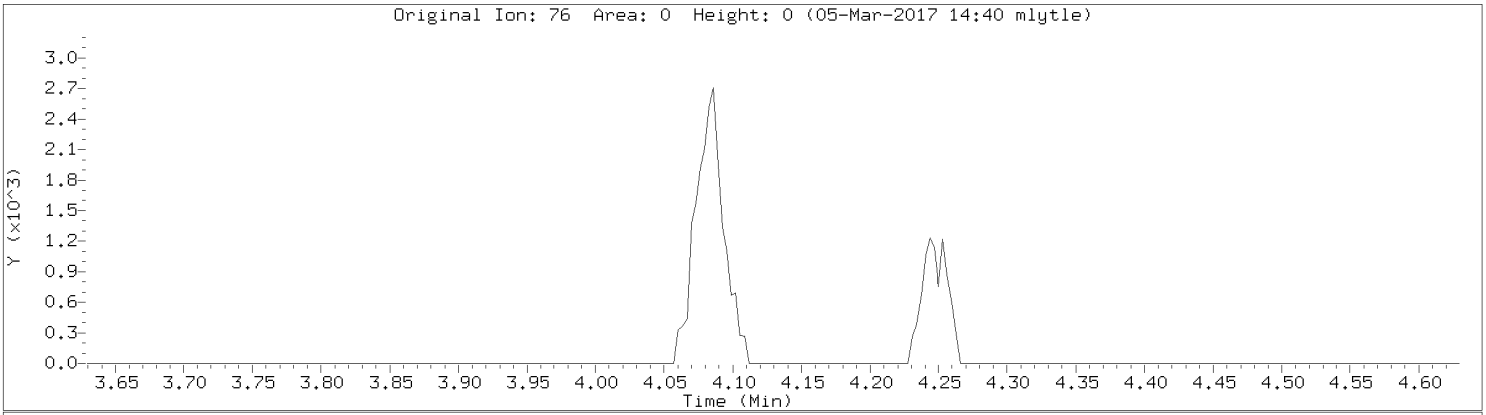


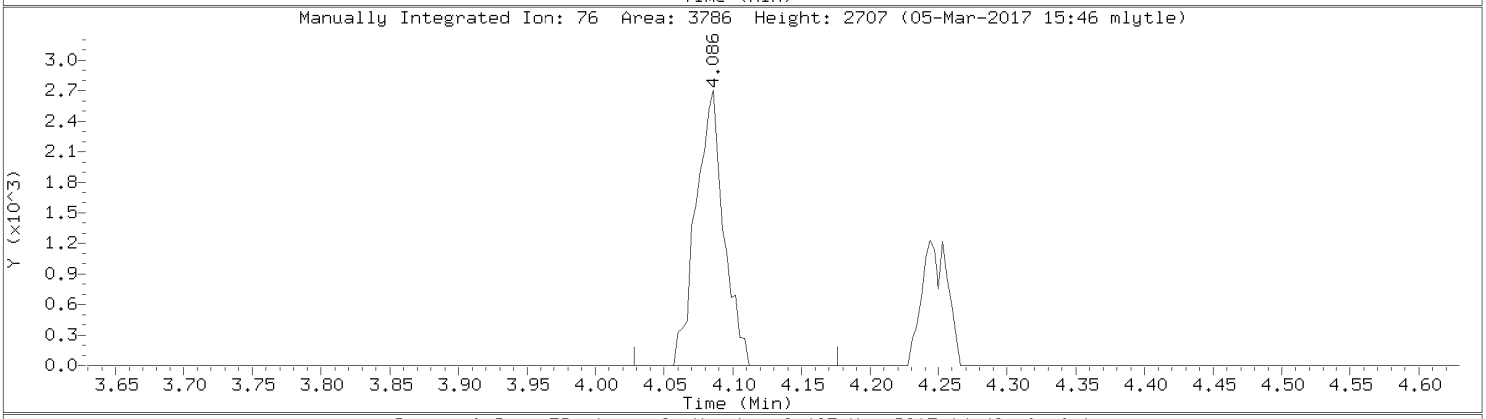
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06329.D
Injection Date: 04-MAR-2017 21:16
Instrument: 10airB.i
Lab Sample ID: 10379458003

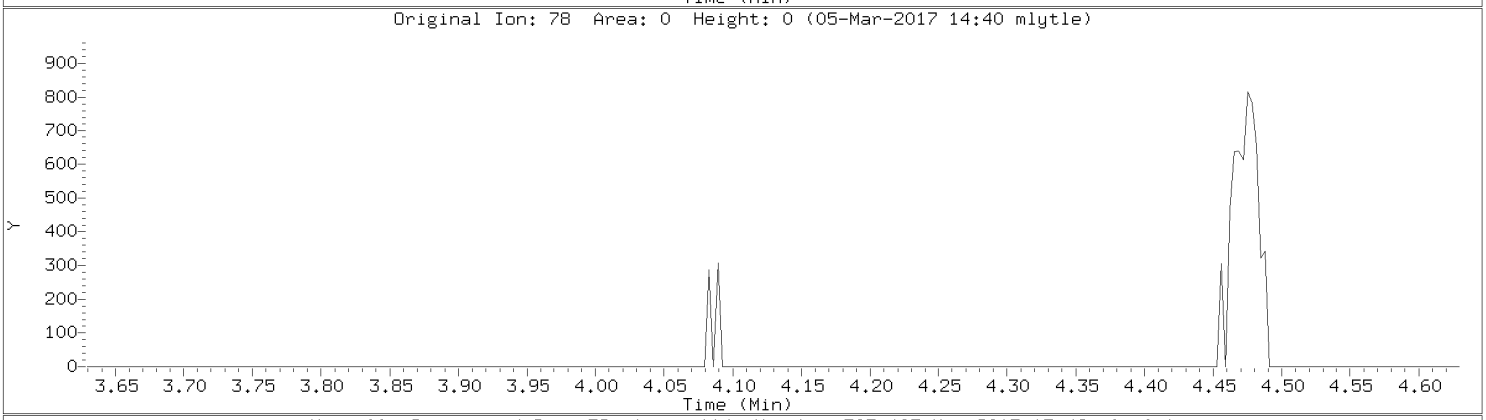


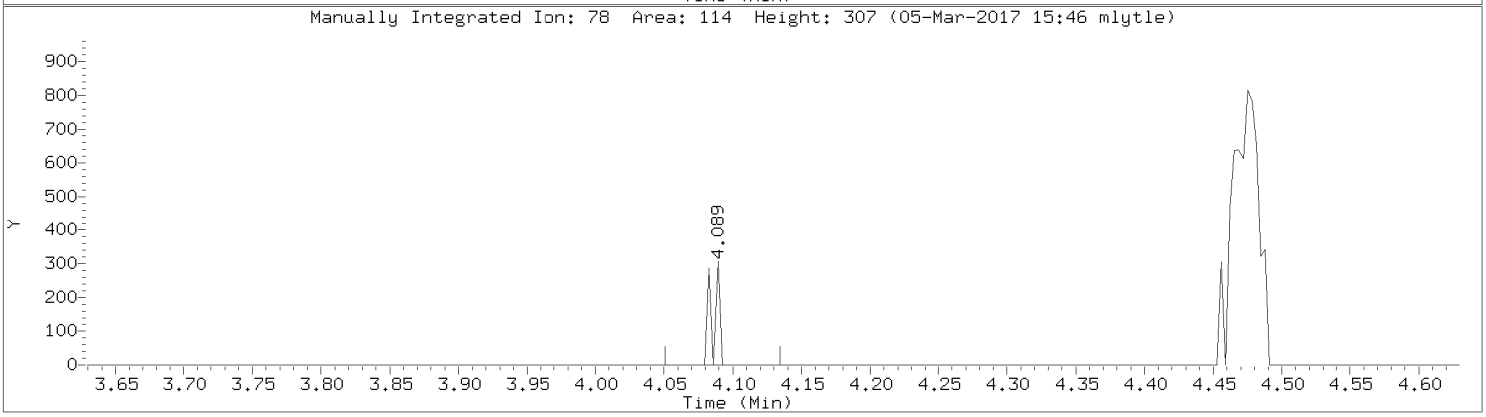
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06329.D
Injection Date: 04-MAR-2017 21:16
Instrument: 10airB.i
Lab Sample ID: 10379458003

Compound: Carbon Disulfide
CAS Number: 75-15-0



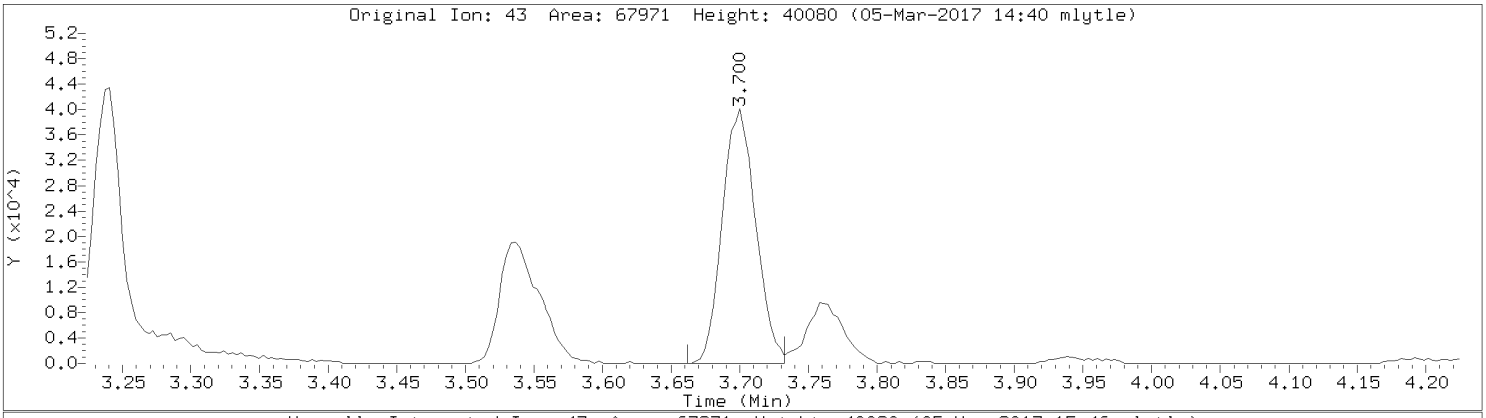


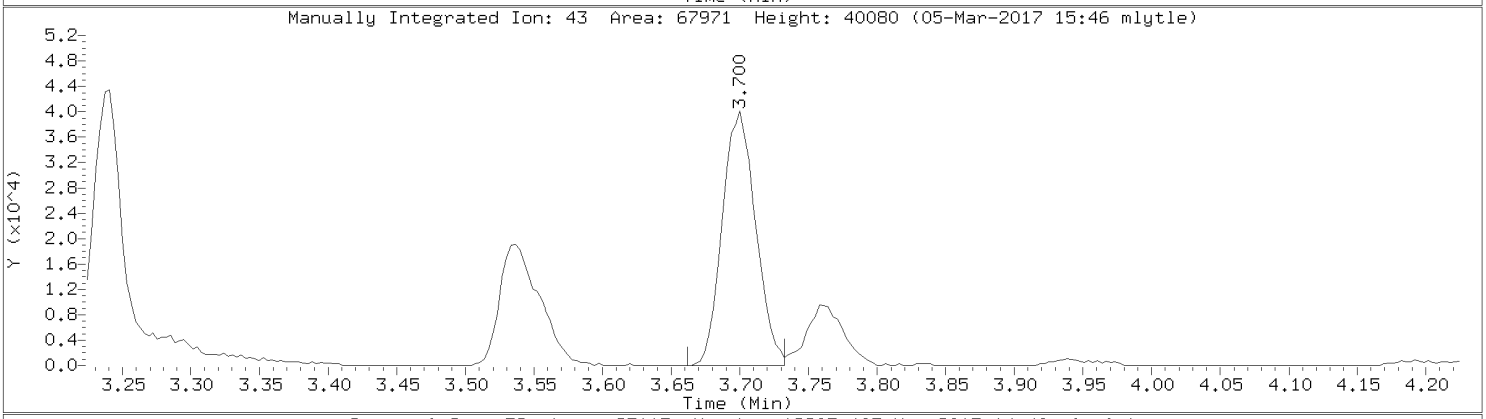


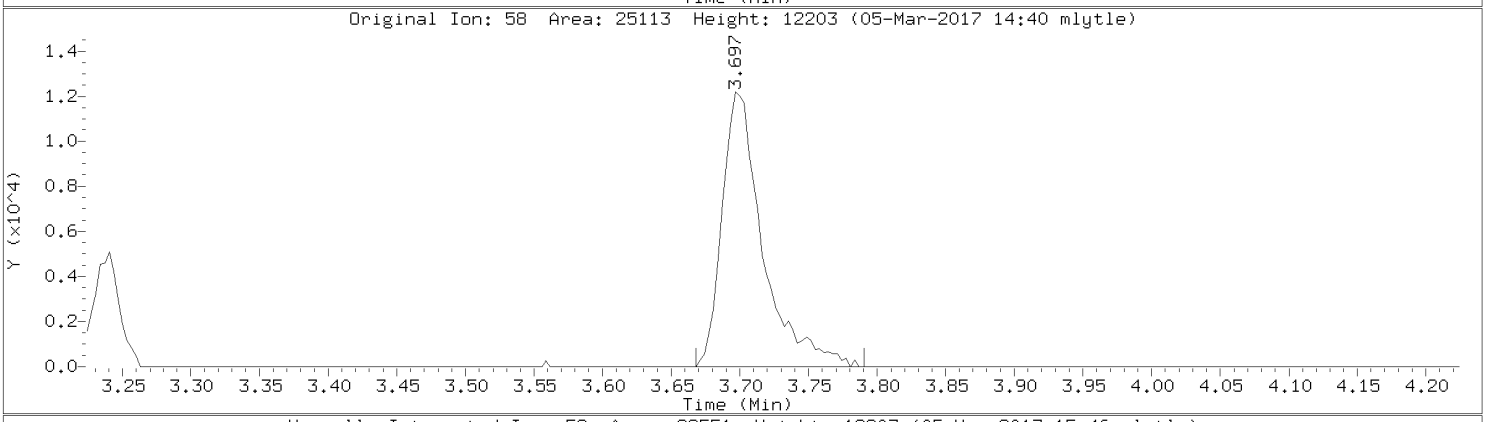


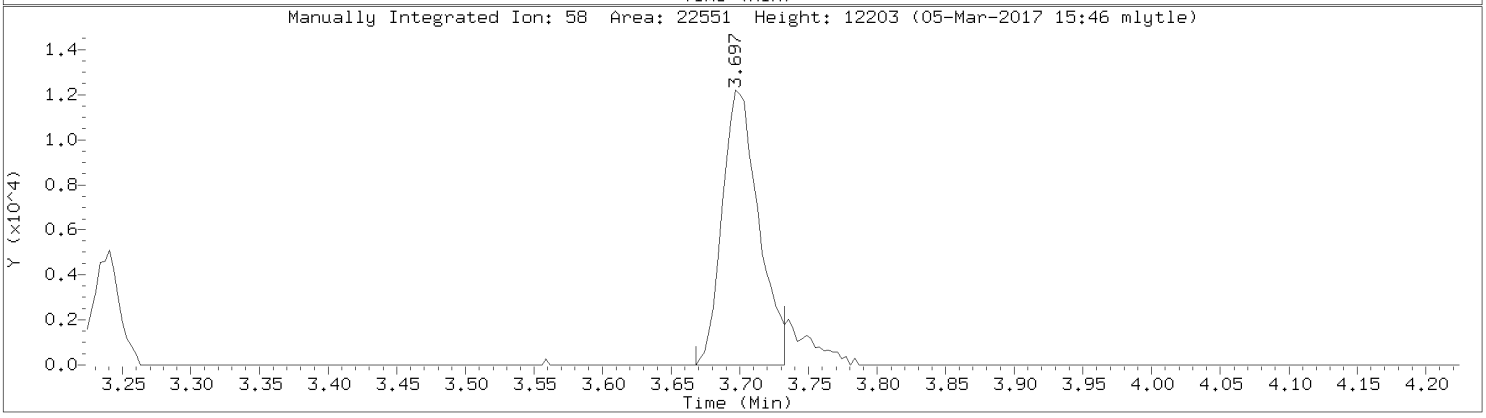
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06329.D
Injection Date: 04-MAR-2017 21:16
Instrument: 10airB.i
Lab Sample ID: 10379458003

Compound: Acetone
CAS Number: 67-64-1



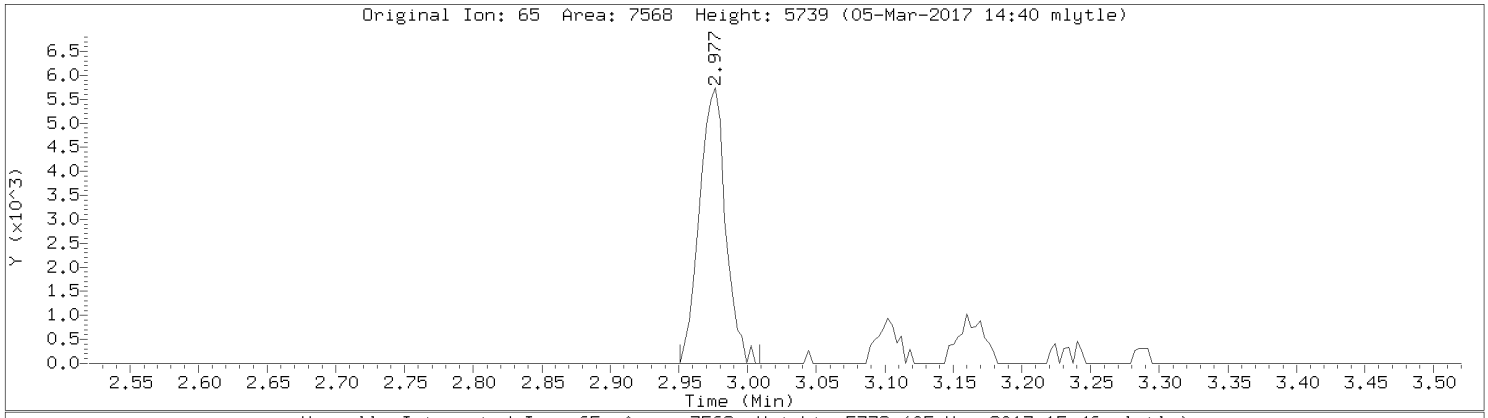


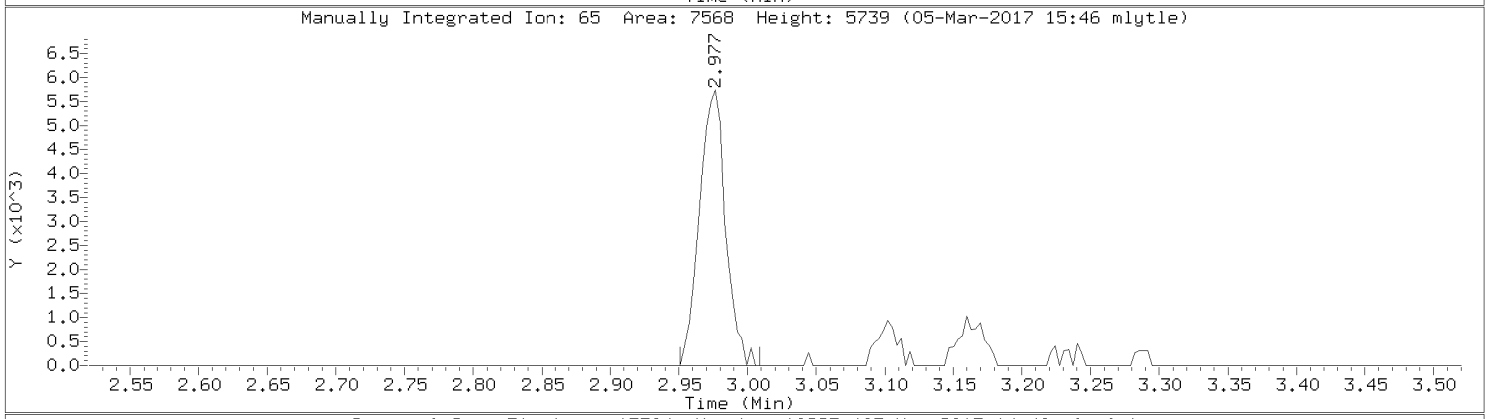


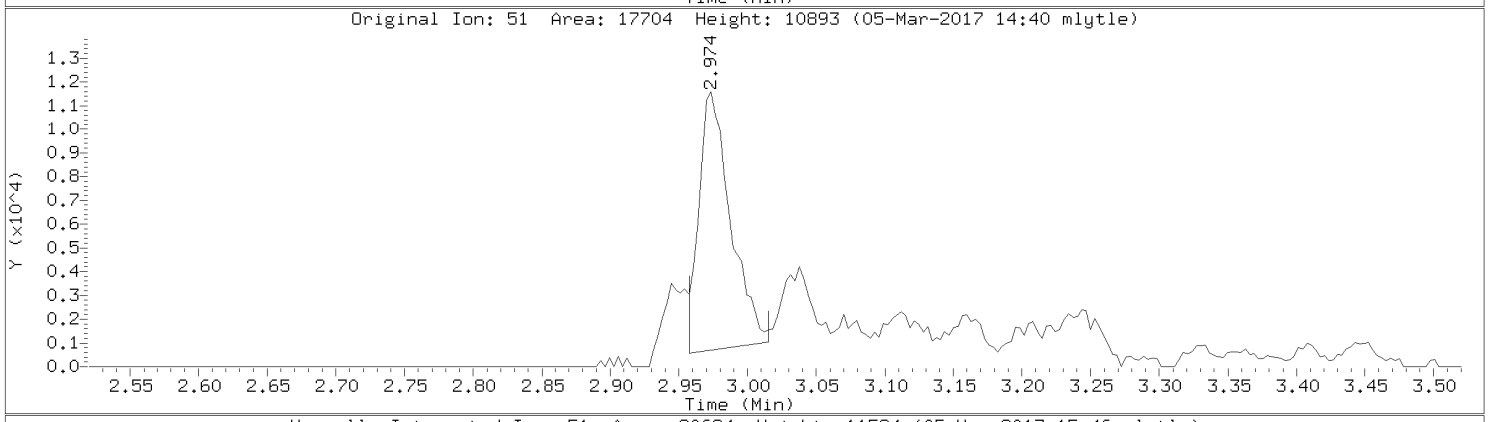


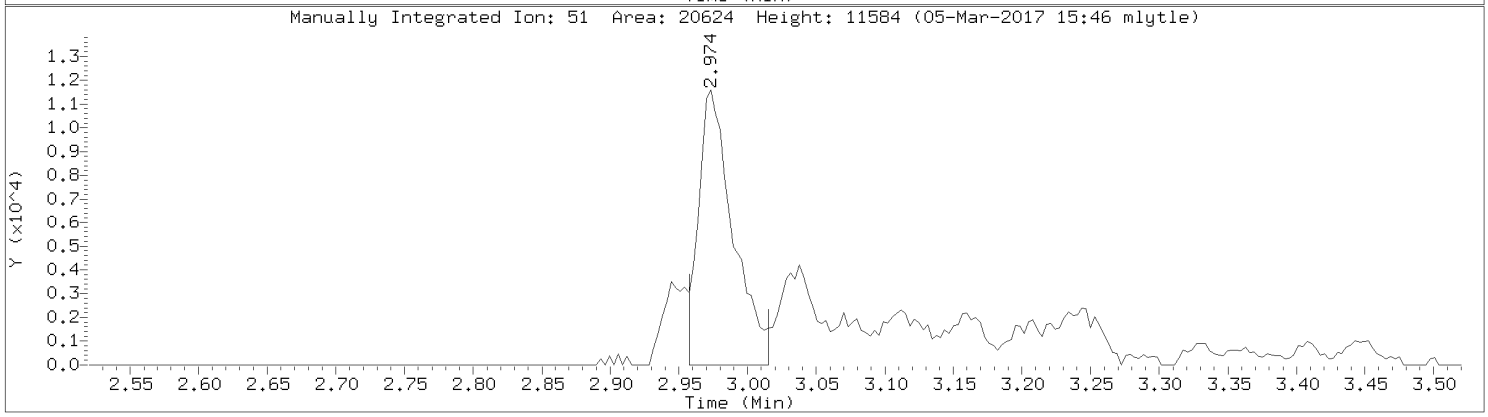
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06329.D
Injection Date: 04-MAR-2017 21:16
Instrument: 10airB.i
Lab Sample ID: 10379458003

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

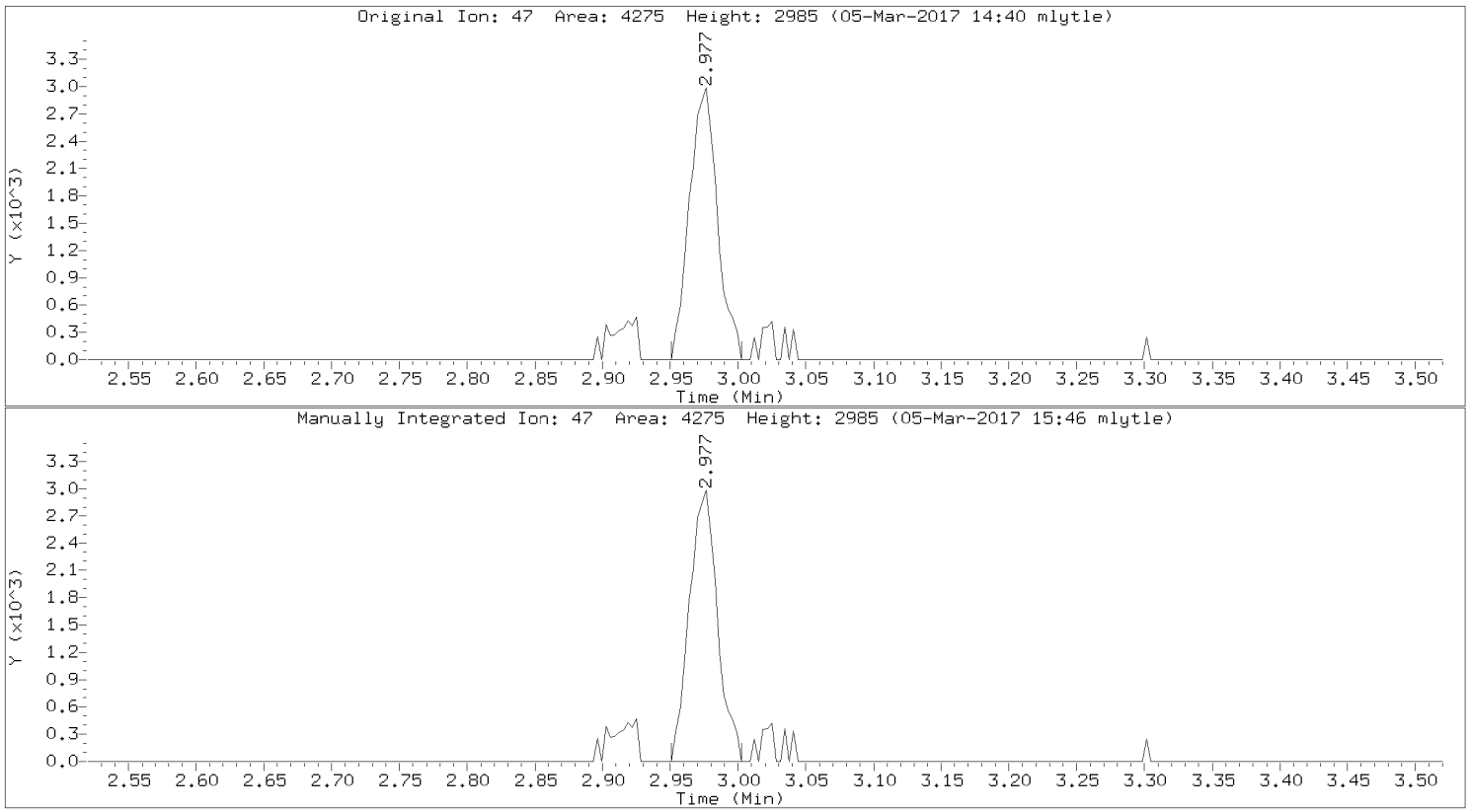






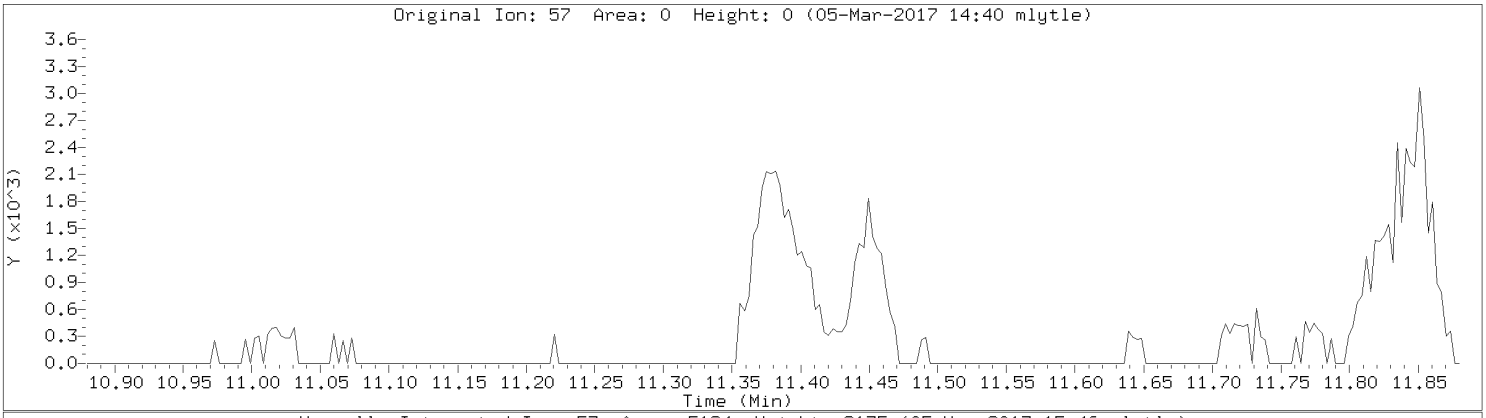


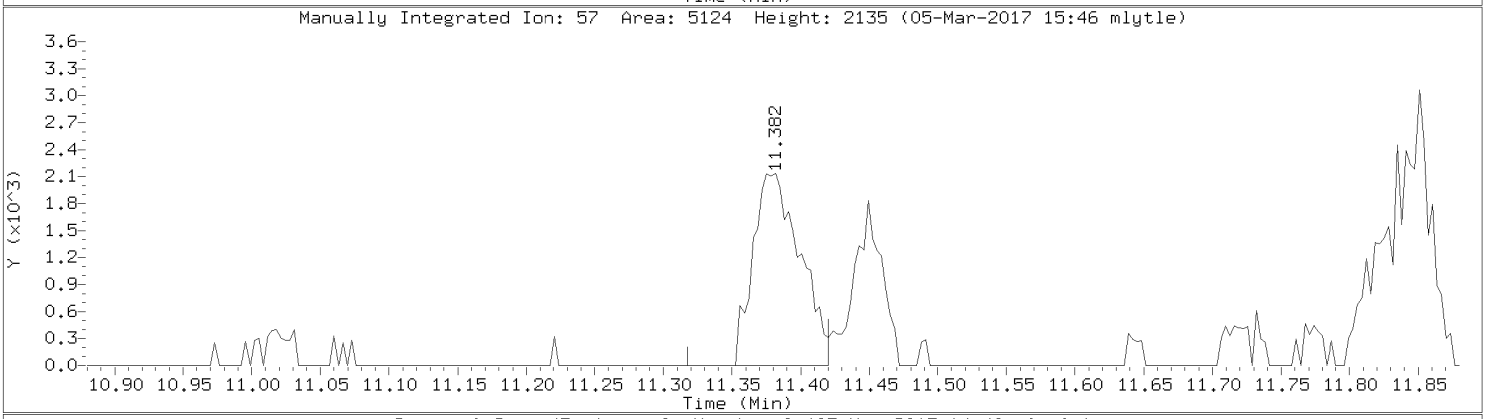
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06329.D
Injection Date: 04-MAR-2017 21:16
Instrument: 10airB.i
Lab Sample ID: 10379458003

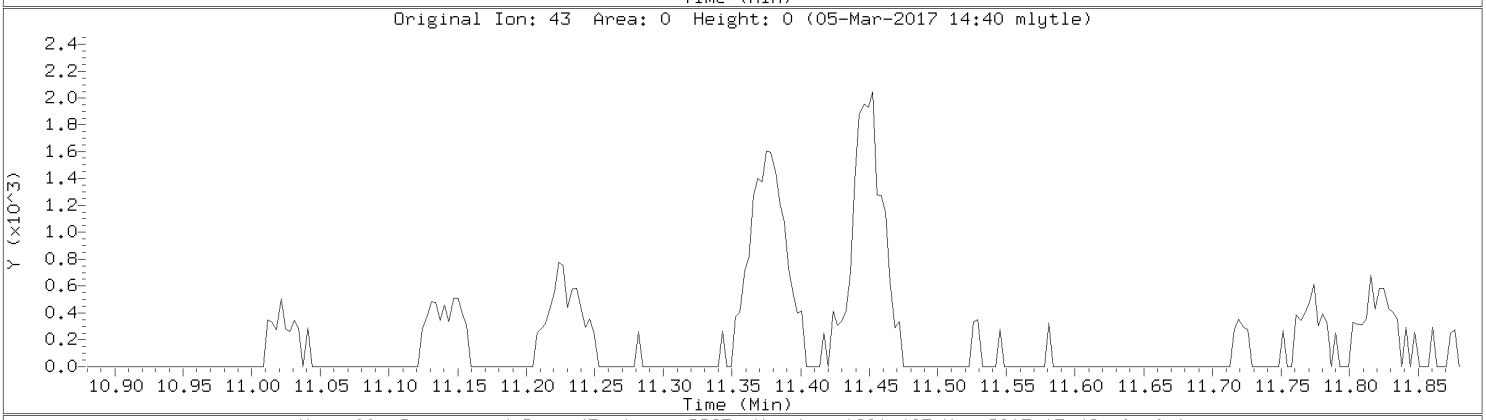


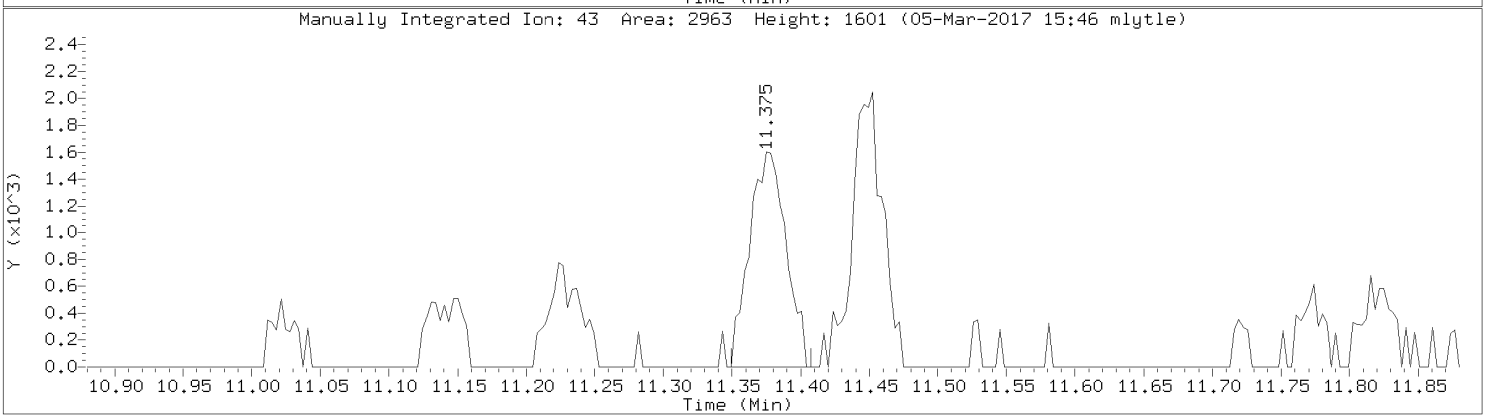
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06329.D
Injection Date: 04-MAR-2017 21:16
Instrument: 10airB.i
Lab Sample ID: 10379458003

Compound: n-Decane
CAS Number: 124-18-5

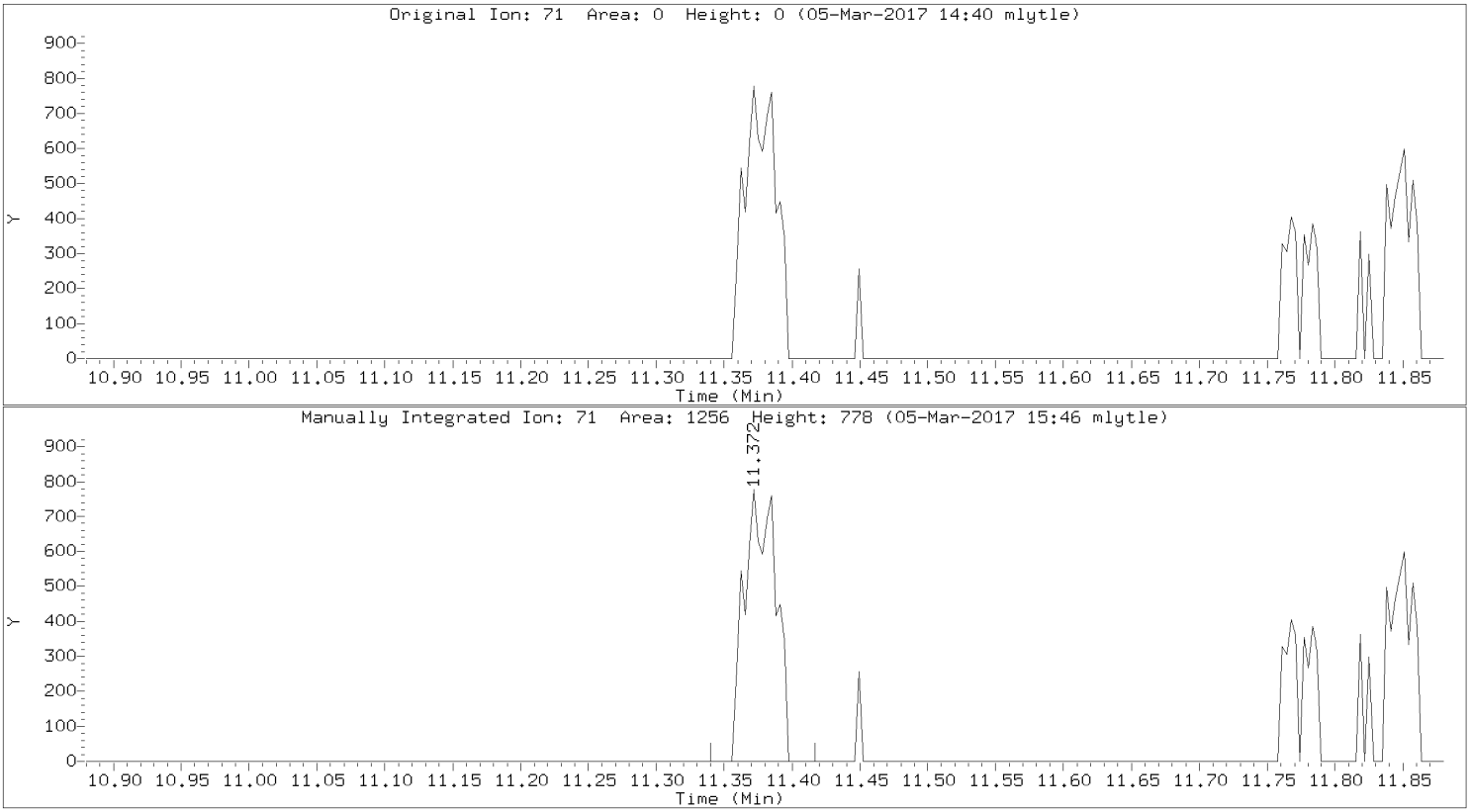








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06329.D
Injection Date: 04-MAR-2017 21:16
Instrument: 10airB.i
Lab Sample ID: 10379458003



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-E16_20170215 **Lab ID: 10379458003** Collected: 02/15/17 15:58 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**17.9**	ug/m3	4.8	0.46	1.92		03/04/17 21:16	67-63-0	
Styrene	**0.88J**	ug/m3	1.7	0.37	1.92		03/04/17 21:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/04/17 21:16	79-34-5	
Tetrachloroethene	**651**	ug/m3	1.3	0.53	1.92		03/04/17 21:16	127-18-4	
Tetrachloroethene	**644**	ug/m3	35.5	7.2	25.73		03/05/17 20:36	127-18-4	
Toluene	**3.0**	ug/m3	1.5	0.30	1.92		03/04/17 21:16	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/04/17 21:16	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/04/17 21:16	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/04/17 21:16	79-00-5	
Trichloroethene	**3.4**	ug/m3	1.1	0.53	1.92		03/04/17 21:16	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.2	0.25	1.92		03/04/17 21:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.9**	ug/m3	3.1	0.58	1.92		03/04/17 21:16	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.9	0.24	1.92		03/04/17 21:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/04/17 21:16	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/04/17 21:16	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.4	1.5	1.92		03/04/17 21:16	179601-23-1	
o-Xylene	**1.1J**	ug/m3	1.7	0.67	1.92		03/04/17 21:16	95-47-6	

Sample: SS-D7_20170215 **Lab ID: 10379458004** Collected: 02/15/17 16:18 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**22.7**	ug/m3	4.6	1.6	1.92		03/04/17 22:16	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/04/17 22:16	107-05-1	
Benzene	**0.41J**	ug/m3	0.62	0.23	1.92		03/04/17 22:16	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/04/17 22:16	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/04/17 22:16	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/04/17 22:16	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/04/17 22:16	106-99-0	
2-Butanone (MEK)	**4.5J**	ug/m3	5.8	0.44	1.92		03/04/17 22:16	78-93-3	
Carbon disulfide	**1.1J**	ug/m3	1.2	0.19	1.92		03/04/17 22:16	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/04/17 22:16	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/04/17 22:16	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/04/17 22:16	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/04/17 22:16	75-00-3	
Chloroform	**6.6**	ug/m3	0.95	0.36	1.92		03/04/17 22:16	67-66-3	
Chloromethane	**0.71J**	ug/m3	0.81	0.21	1.92		03/04/17 22:16	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/04/17 22:16	76-15-3	
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/04/17 22:16	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/04/17 22:16	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/04/17 22:16	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/04/17 22:16	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/04/17 22:16	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-D7_20170215 **Lab ID: 10379458004** Collected: 02/15/17 16:18 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/04/17 22:16	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/04/17 22:16	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.9	0.92	1.92		03/04/17 22:16	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/04/17 22:16	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/04/17 22:16	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 22:16	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/04/17 22:16	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/04/17 22:16	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/04/17 22:16	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/04/17 22:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/04/17 22:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/04/17 22:16	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/04/17 22:16	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/04/17 22:16	123-91-1	
Ethylbenzene	**0.91J**	ug/m3	1.7	0.82	1.92		03/04/17 22:16	100-41-4	
4-Ethyltoluene	**1.7J**	ug/m3	1.9	0.36	1.92		03/04/17 22:16	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/04/17 22:16	87-68-3	
n-Hexane	**<0.69**	ug/m3	1.4	0.69	1.92		03/04/17 22:16	110-54-3	
2-Hexanone	**1.2J**	ug/m3	8.0	0.79	1.92		03/04/17 22:16	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/04/17 22:16	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/04/17 22:16	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 22:16	108-87-2	
Methylene Chloride	**4.9J**	ug/m3	6.8	1.0	1.92		03/04/17 22:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/04/17 22:16	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/04/17 22:16	1634-04-4	
2-Propanol	**9.8**	ug/m3	4.8	0.46	1.92		03/04/17 22:16	67-63-0	
Styrene	**0.83J**	ug/m3	1.7	0.37	1.92		03/04/17 22:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/04/17 22:16	79-34-5	
Tetrachloroethene	**14.8**	ug/m3	1.3	0.53	1.92		03/04/17 22:16	127-18-4	
Toluene	**2.5**	ug/m3	1.5	0.30	1.92		03/04/17 22:16	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/04/17 22:16	120-82-1	
1,1,1-Trichloroethane	**7.2**	ug/m3	2.1	0.47	1.92		03/04/17 22:16	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/04/17 22:16	79-00-5	
Trichloroethene	**90.9**	ug/m3	1.1	0.53	1.92		03/04/17 22:16	79-01-6	
Trichlorofluoromethane	**3.6**	ug/m3	2.2	0.25	1.92		03/04/17 22:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**9.3**	ug/m3	3.1	0.58	1.92		03/04/17 22:16	76-13-1	
1,2,4-Trimethylbenzene	**4.4**	ug/m3	1.9	0.24	1.92		03/04/17 22:16	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.9	0.35	1.92		03/04/17 22:16	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/04/17 22:16	75-01-4	
m&p-Xylene	**3.5**	ug/m3	3.4	1.5	1.92		03/04/17 22:16	179601-23-1	
o-Xylene	**1.3J**	ug/m3	1.7	0.67	1.92		03/04/17 22:16	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D
Report Date: 05-Mar-2017 15:49

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06331.D
Lab Smp Id: 10379458004
Inj Date : 04-MAR-2017 22:16
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 31
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.005	3.018	(0.537)	5085	0.72494	1.39(QM)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.060	(0.546)	10156	0.22184	0.426	
6	Chloromethane	50	3.147	3.156	(0.562)	2436	0.17721	0.340(M)	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.542	3.545	(0.633)	79522	18.0889	34.7	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.661	3.674	(0.654)	10740	0.32743	0.629	
17	Acrolein	56	3.671	3.684	(0.656)	2380	0.73167	1.40(Q)	
18	Acetone	43	3.716	3.722	(0.664)	93015	4.89983	9.41	
19	Isopropyl Alcohol	45	3.764	3.767	(0.672)	39543	2.04247	3.92	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.941	3.951	(0.704)	15360	0.62011	1.19	
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D
Report Date: 05-Mar-2017 15:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)		
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.957	(0.706)	13697	0.55035	1.06		
	25 Methylene chloride	49	3.992	4.005	(0.713)	9641	0.71955	1.38		
	26 Allyl Chloride	76	Compound Not Detected.							
	27 Carbon Disulfide	76	4.102	4.127	(0.732)	4503	0.17845	0.343	(M)	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.							
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.							(D)
	30 Vinyl Acetate	43	4.436	4.391	(0.792)	20388	0.81181	1.56		
	31 1,1-Dichloroethane	63	Compound Not Detected.							(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.800)	342131	8.98806	8.99		
	33 Methyl Ethyl Ketone	72	4.558	4.555	(0.814)	4064	0.78613	1.51		
	34 n-Hexane	57	Compound Not Detected.							(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.							
	36 Ethyl Acetate	43	Compound Not Detected.							(D)
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.							
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.							
	39 Chloroform	83	4.819	4.841	(0.860)	17052	0.68795	1.32		
	40 Tetrahydrofuran	42	Compound Not Detected.							
	41 1,1,1-Trichloroethane	97	5.218	5.233	(0.932)	19845	0.68056	1.31		
	42 1,2-Dichloroethane	62	Compound Not Detected.							
	43 Benzene	78	5.459	5.468	(0.975)	2560	0.06635	0.127		
	44 Carbon tetrachloride	117	Compound Not Detected.							(D)
	45 Cyclohexane	56	Compound Not Detected.							
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.							(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1196437	10.0000			
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.							(D)
	49 Heptane	43	Compound Not Detected.							(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.							
	51 Trichloroethene	130	5.973	5.989	(1.067)	174189	8.66509	16.6		
	52 Methyl methacrylate	69	Compound Not Detected.							(D)
	53 1,4-Dioxane	88	Compound Not Detected.							
	54 Bromodichloromethane	83	Compound Not Detected.							
	55 Methylcyclohexane	98	Compound Not Detected.							
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.							(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.							
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.							
$	59 Toluene-d8 (S)	98	7.070	7.076	(1.262)	1035327	9.66833	9.67		
	60 1,1,2-Trichloroethane	97	Compound Not Detected.							
	61 Toluene	91	7.147	7.153	(1.276)	16646	0.34448	0.661		
	62 Methyl Butyl Ketone	43	7.381	7.372	(0.854)	3826	0.14990	0.288		
	63 n-Octane	43	7.568	7.584	(0.876)	10995	0.39778	0.764	(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.							
	65 1,2-Dibromoethane	107	Compound Not Detected.							
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	31420	1.11972	2.15		
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	808099	10.0000			
	68 Chlorobenzene	112	Compound Not Detected.							
	69 Ethyl Benzene	91	8.928	8.934	(1.033)	6347	0.10679	0.205		
	70 m&p-Xylene	91	9.073	9.082	(1.050)	19128	0.41003	0.787		
	71 n-Nonane	43	Compound Not Detected.							(D)
	72 Bromoform	173	Compound Not Detected.							
	73 Styrene	104	9.507	9.507	(1.100)	921	0.10007	0.192	(M)	
	74 o-Xylene	91	9.574	9.581	(1.108)	7537	0.15881	0.305		
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.							
	76 Isopropylbenzene	105	Compound Not Detected.							(D)
	77 N-Propylbenzene	91	Compound Not Detected.							(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D
Report Date: 05-Mar-2017 15:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.905	10.912	(1.262)	5885	0.18182	0.349	
79	1,3,5-Trimethylbenzene	105	10.995	11.002	(1.273)	6942	0.14007	0.269(M)	
80	n-Decane	57	11.375	11.378	(2.031)	9492	0.54019	1.04	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.507	11.513	(1.332)	21789	0.45390	0.871	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	480693	10.7983	10.8	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	12.028	12.034	(1.392)	8098	0.17087	0.328	
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.166	14.156	(1.640)	23047	1.02285	1.96	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D
Report Date: 05-Mar-2017 15:49

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06331.D
Lab Smp Id: 10379458004
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

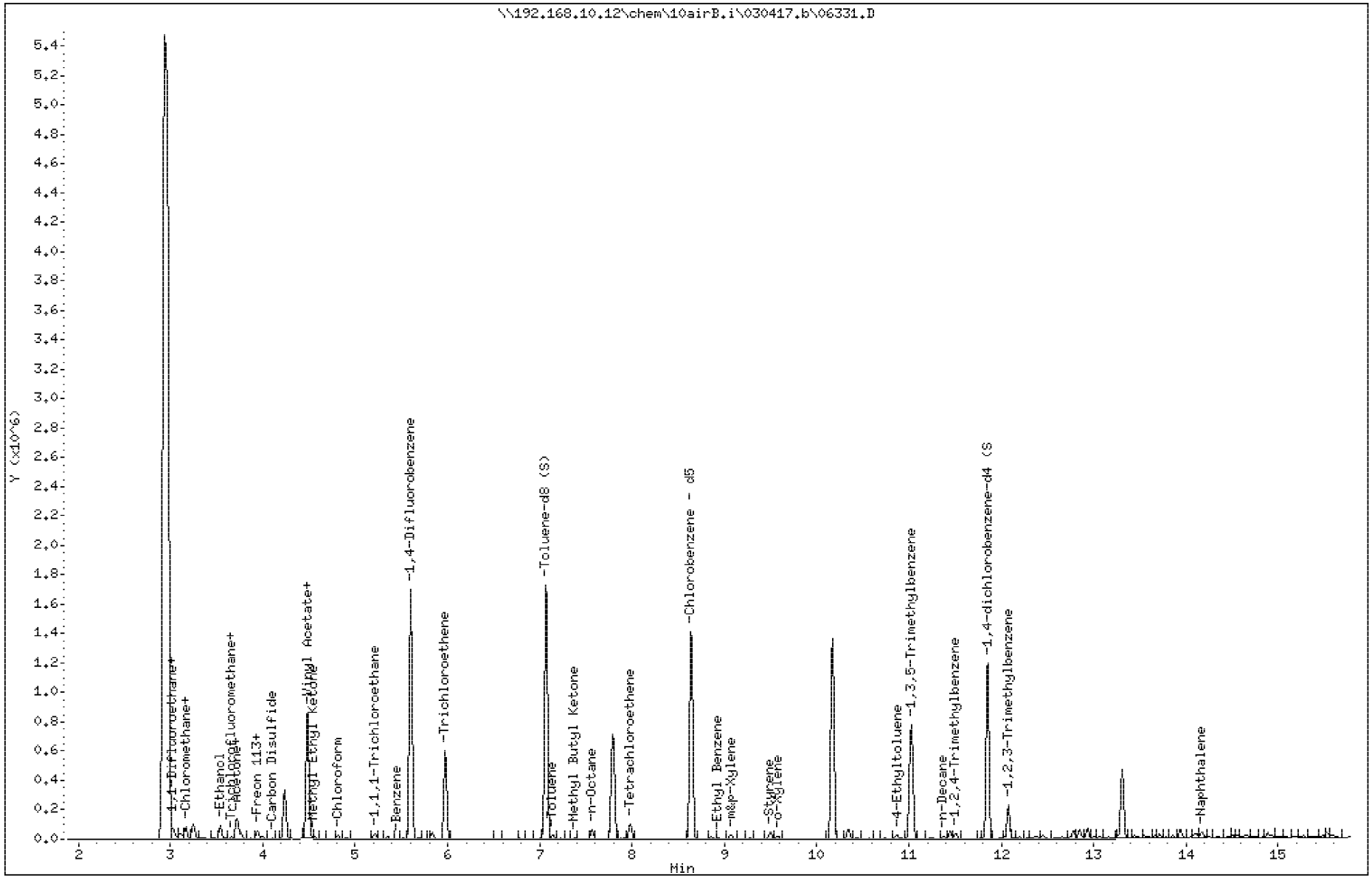
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1196437	-15.39
67 Chlorobenzene - d	951026	570616	1331436	808099	-15.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D
Date : 04-MAR-2017 22:16
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

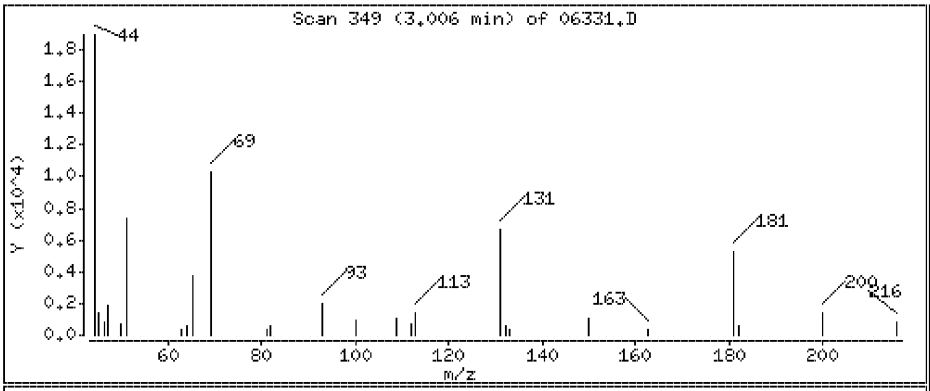
Operator: MJL

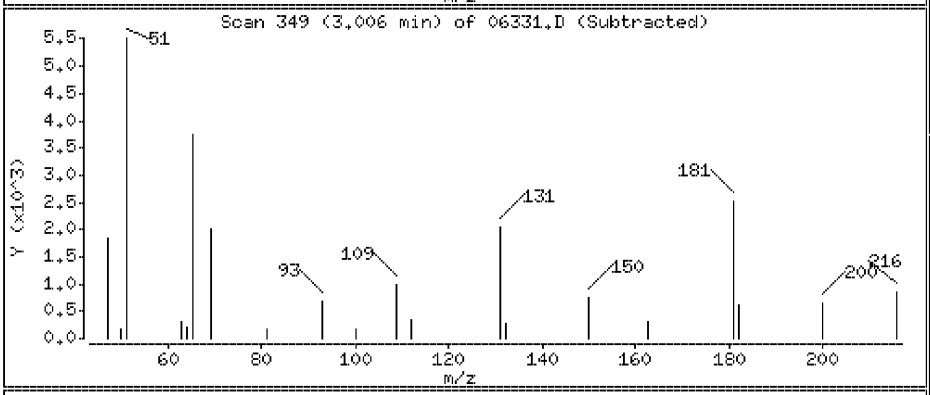
Column phase: J&W DB-5

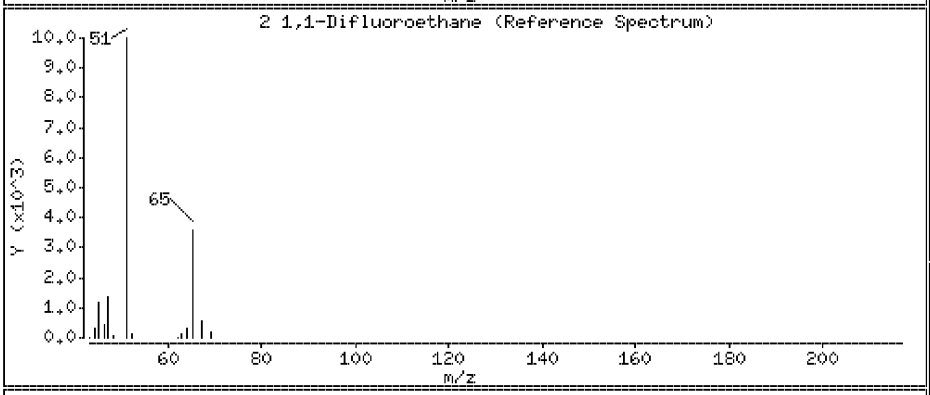
Column diameter: 0.32

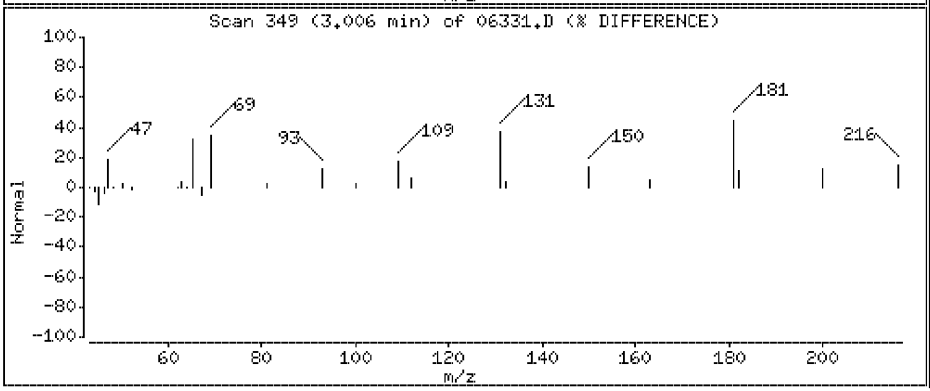
2 1,1-Difluoroethane

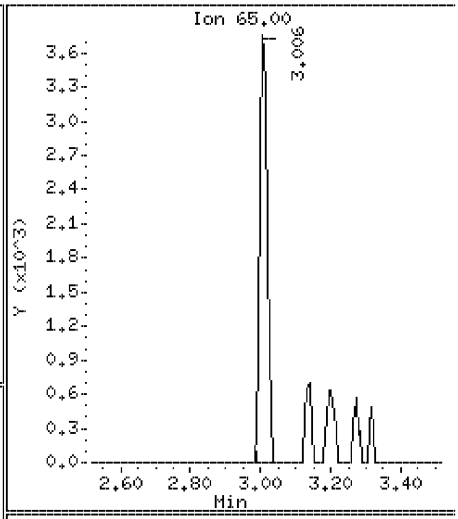
Concentration: 1.39 ppbv

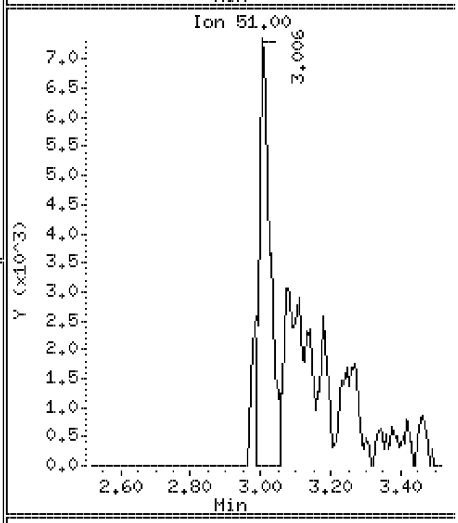


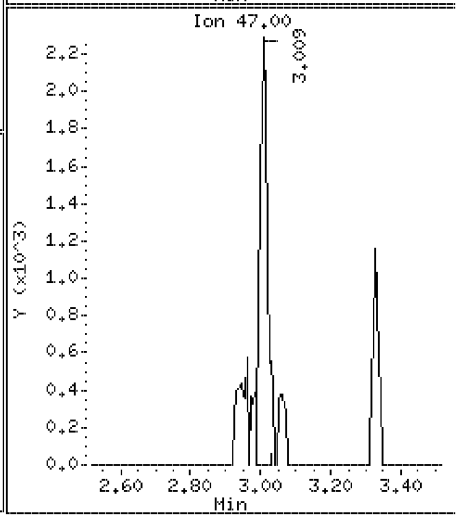












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

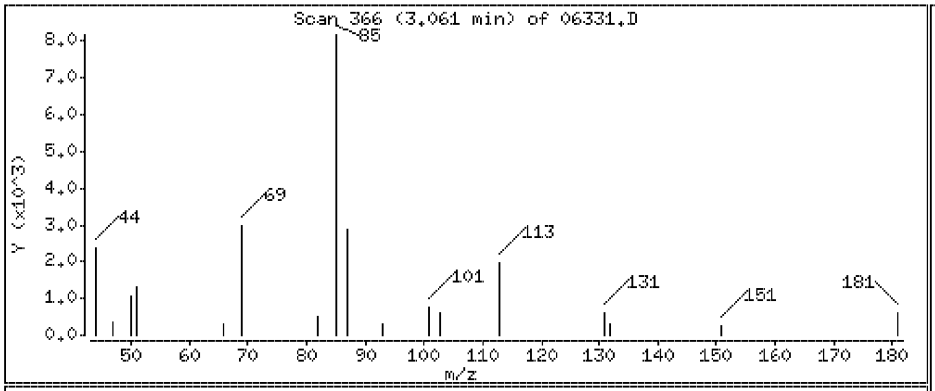
Operator: MJL

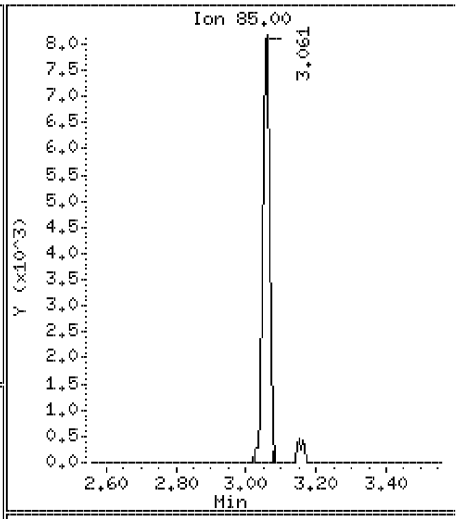
Column phase: J&W DB-5

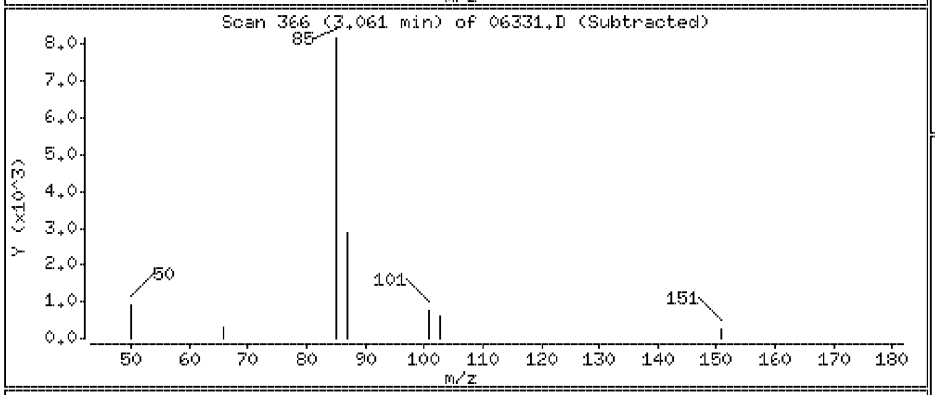
Column diameter: 0.32

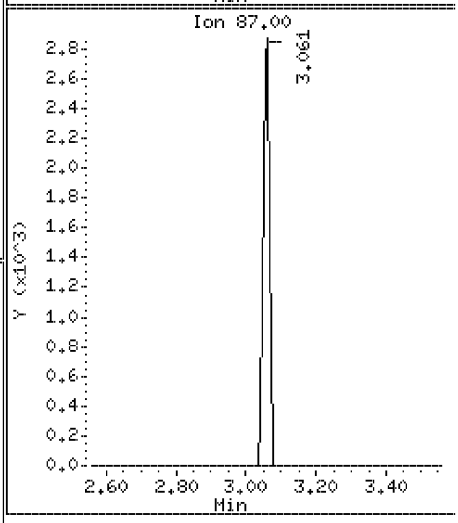
5 Dichlorodifluoromethane

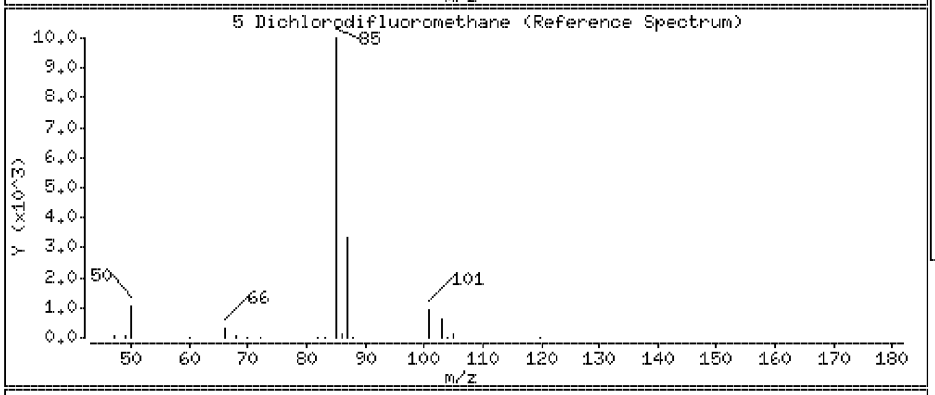
Concentration: 0.426 ppbv

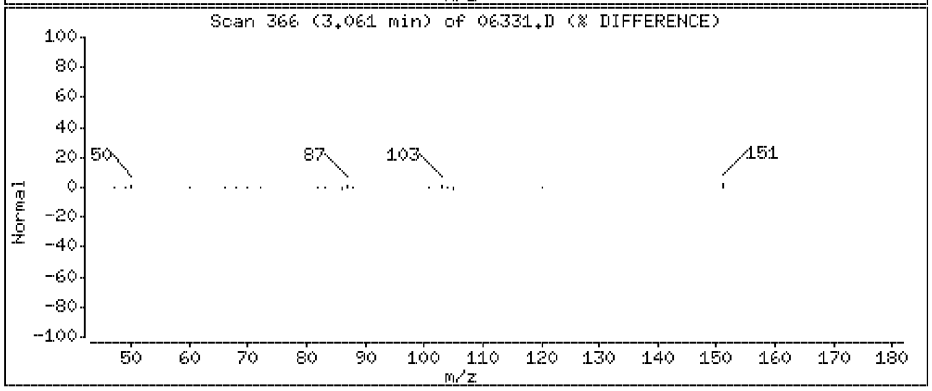












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

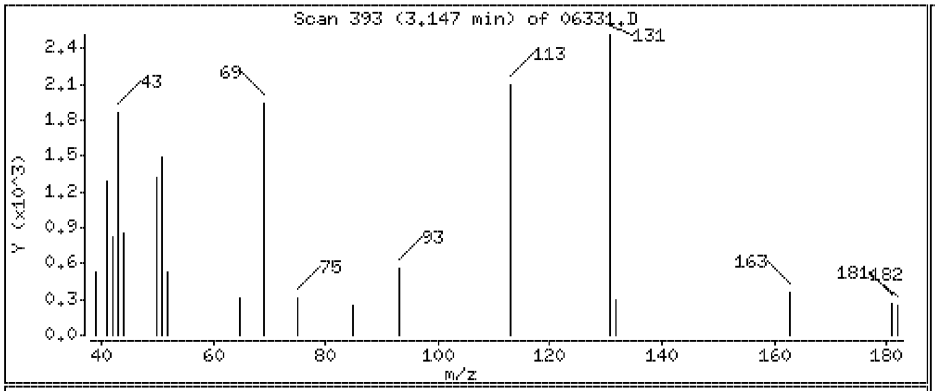
Operator: MJL

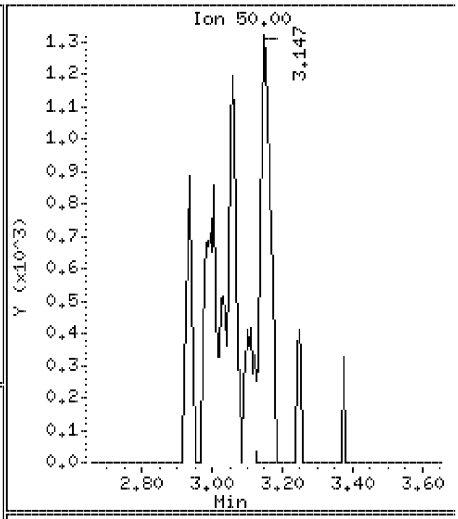
Column phase: J&W DB-5

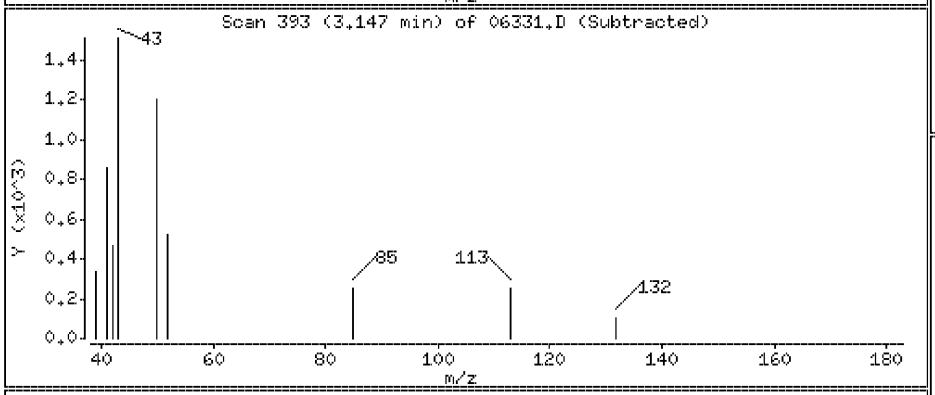
Column diameter: 0.32

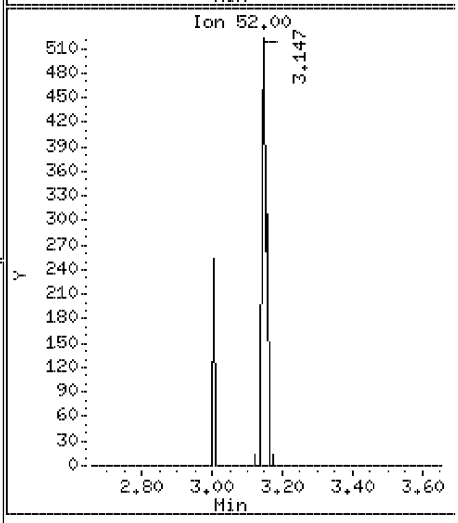
6 Chloromethane

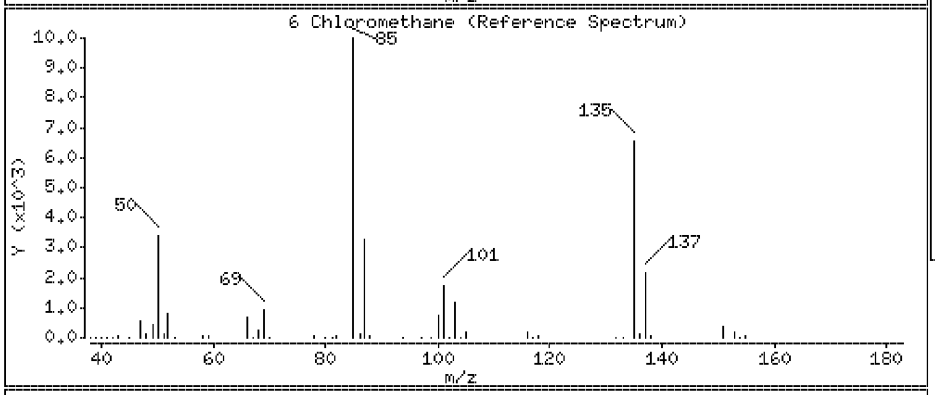
Concentration: 0.340 ppbv

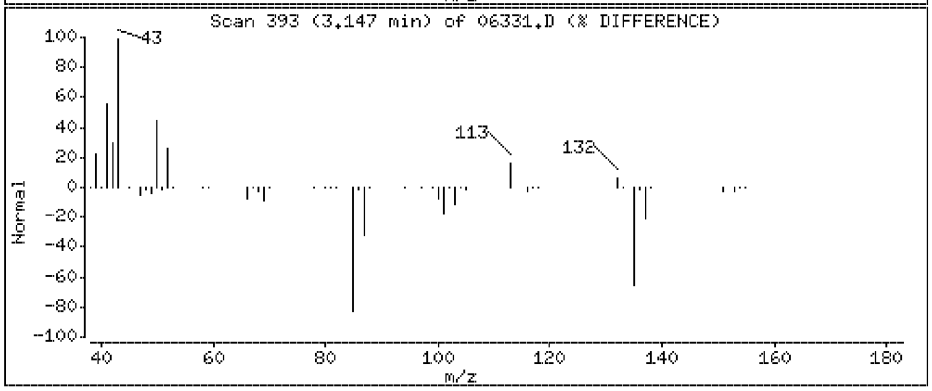












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

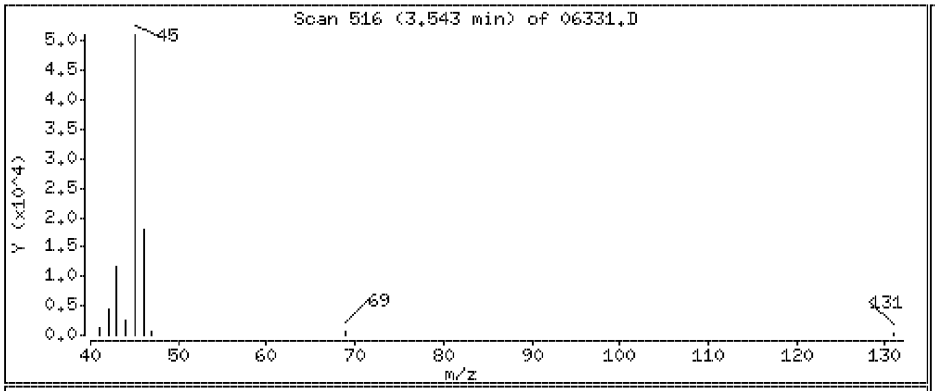
Operator: MJL

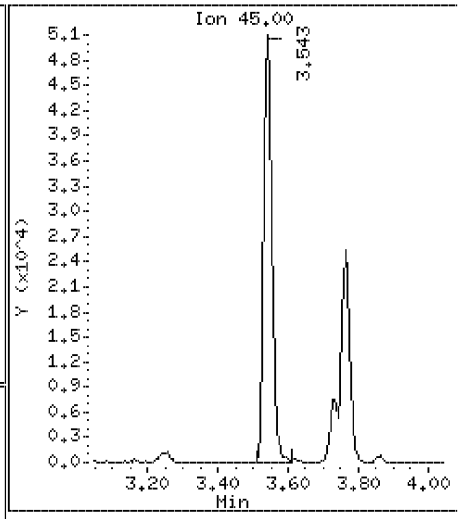
Column phase: J&W DB-5

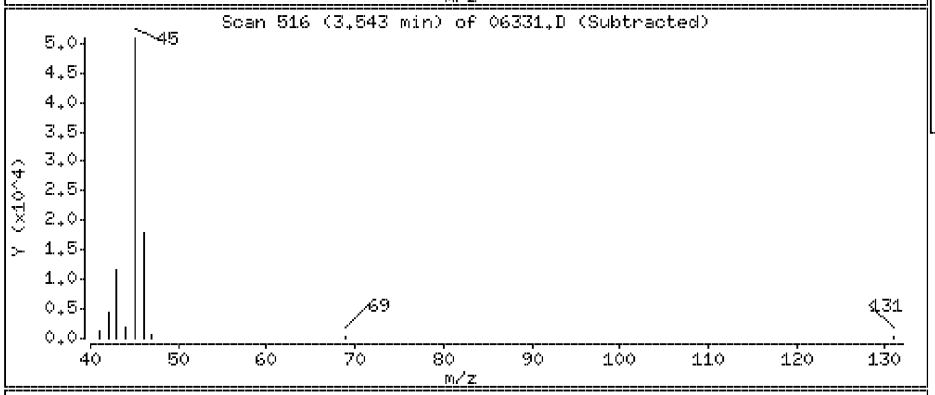
Column diameter: 0.32

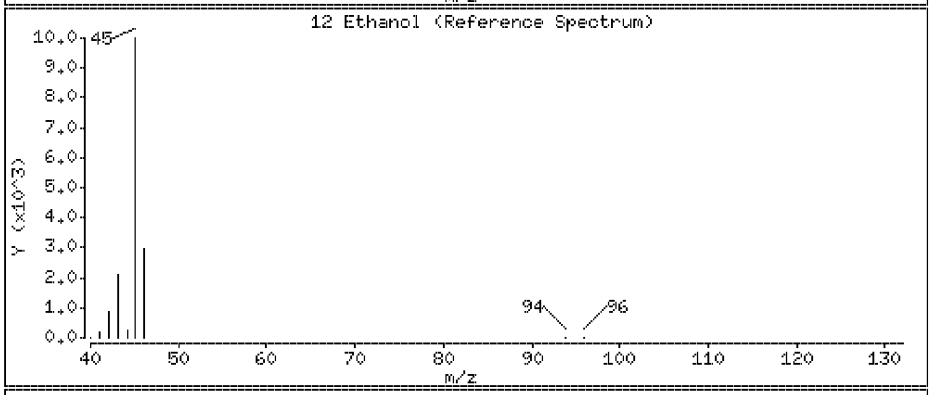
12 Ethanol

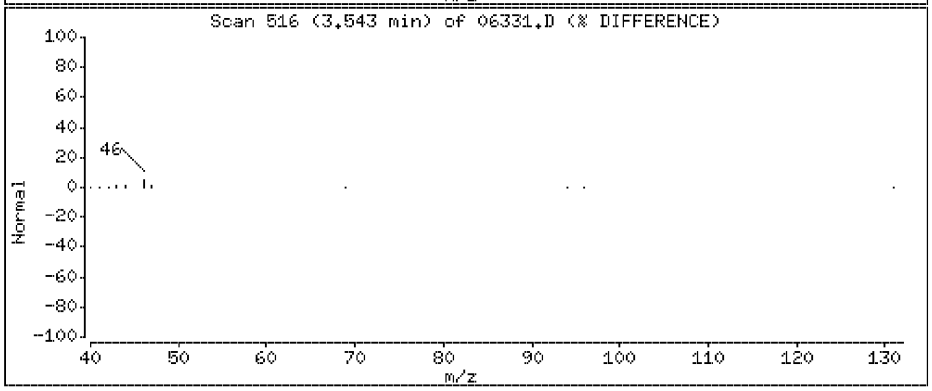
Concentration: 34.7 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

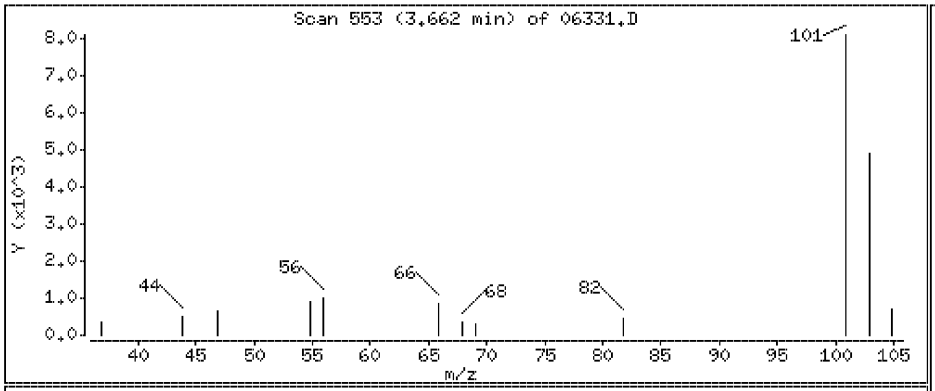
Operator: MJL

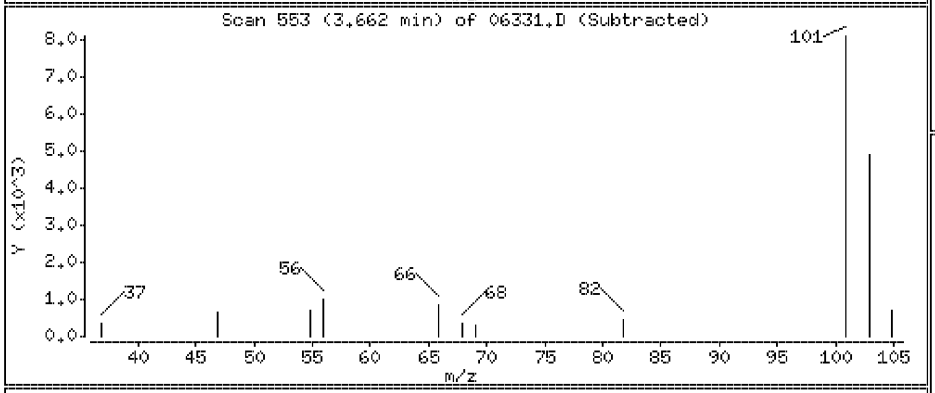
Column phase: J&W DB-5

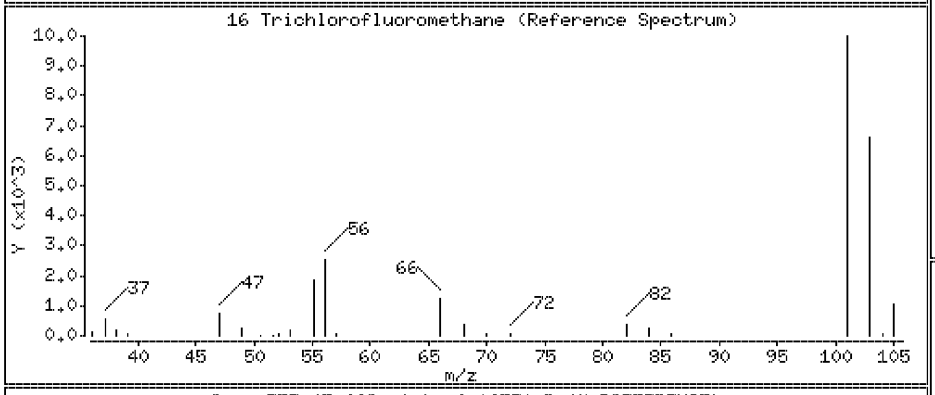
Column diameter: 0.32

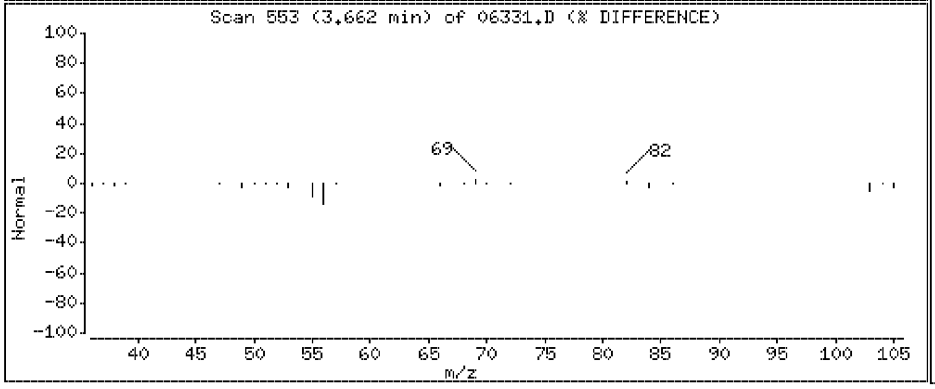
16 Trichlorofluoromethane

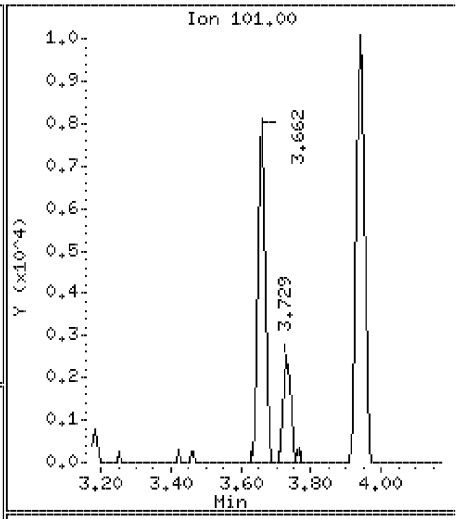
Concentration: 0.629 ppbv

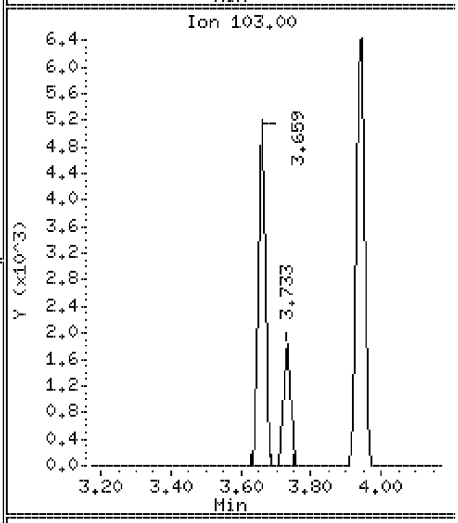


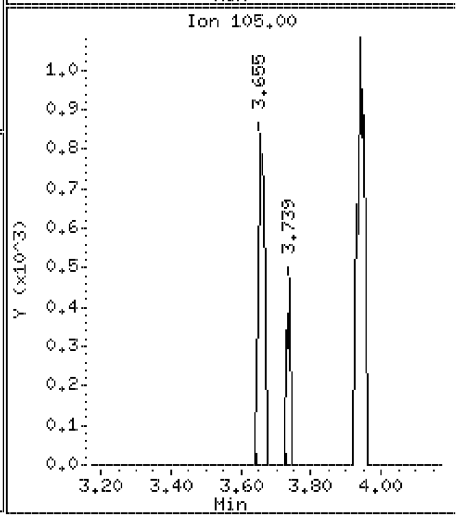












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

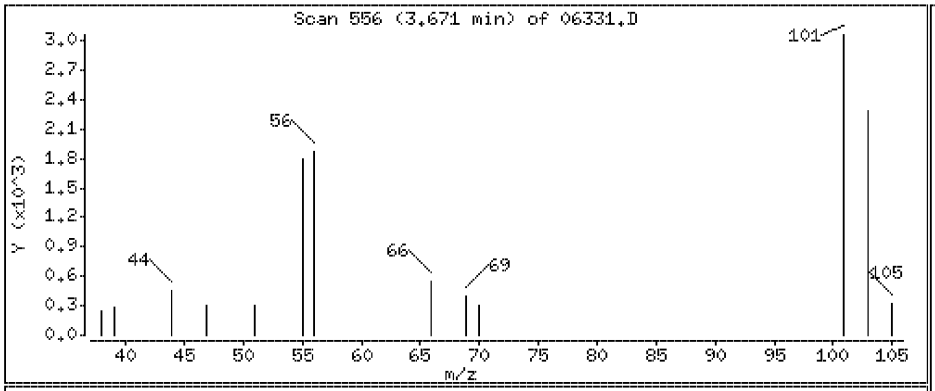
Operator: MJL

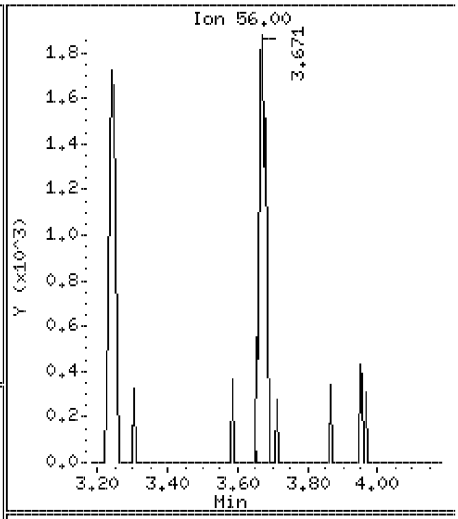
Column phase: J&W DB-5

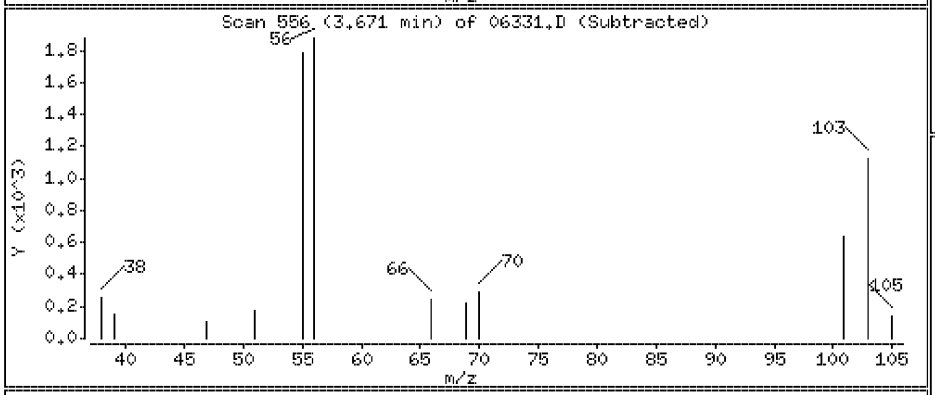
Column diameter: 0.32

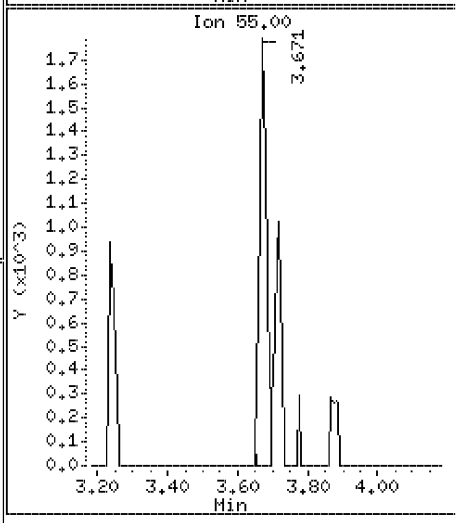
17 Acrolein

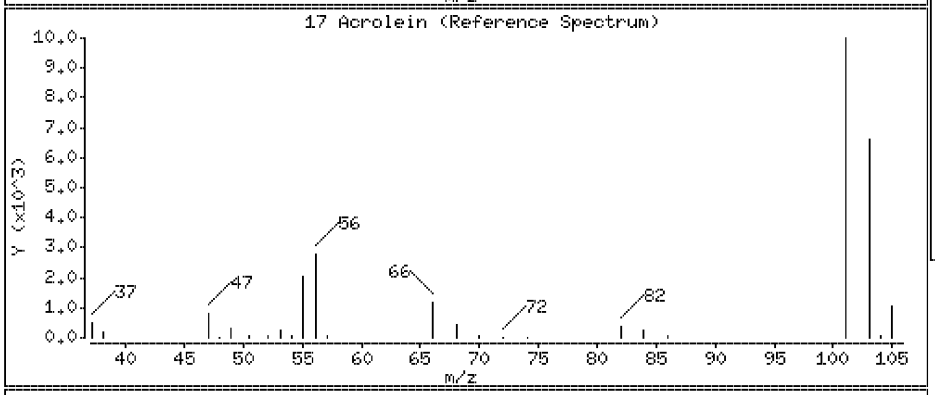
Concentration: 1.40 ppbv

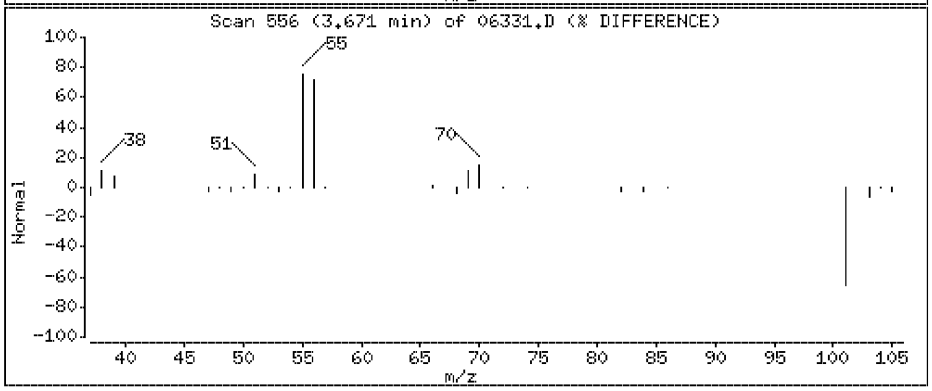












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

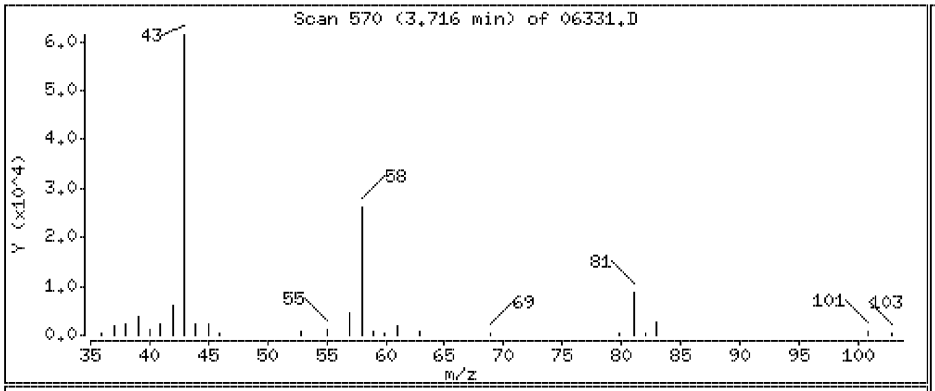
Operator: MJL

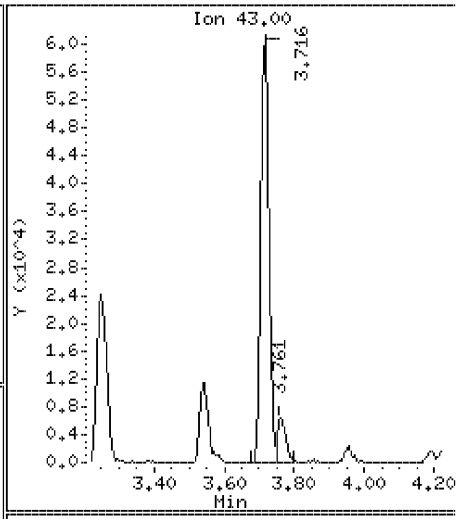
Column phase: J&W DB-5

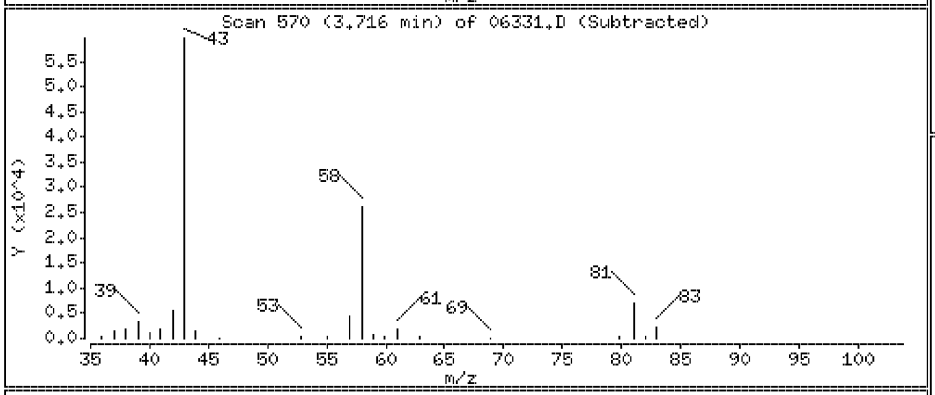
Column diameter: 0.32

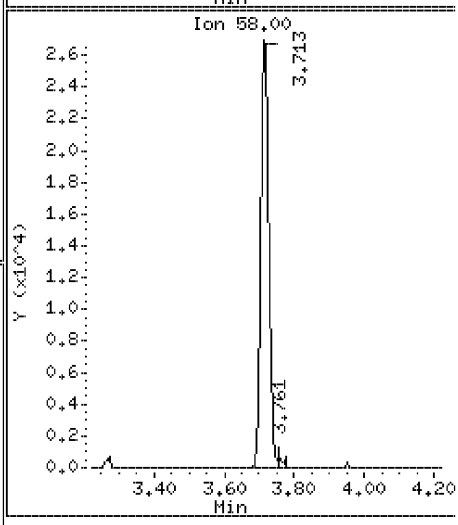
18 Acetone

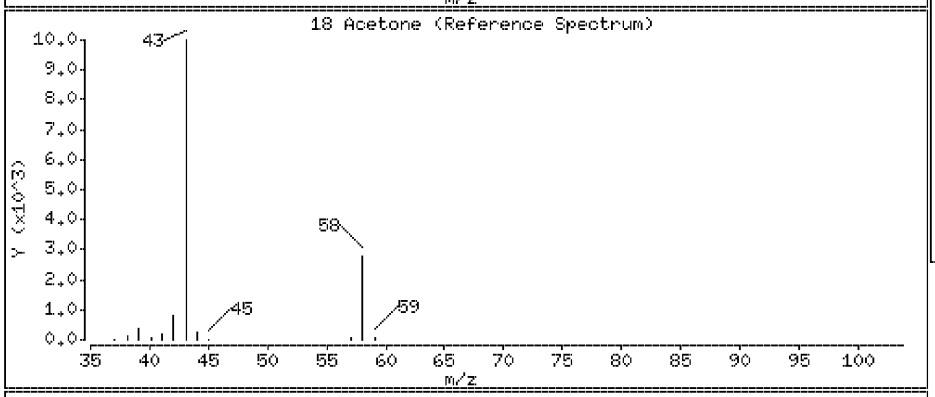
Concentration: 9.41 ppbv

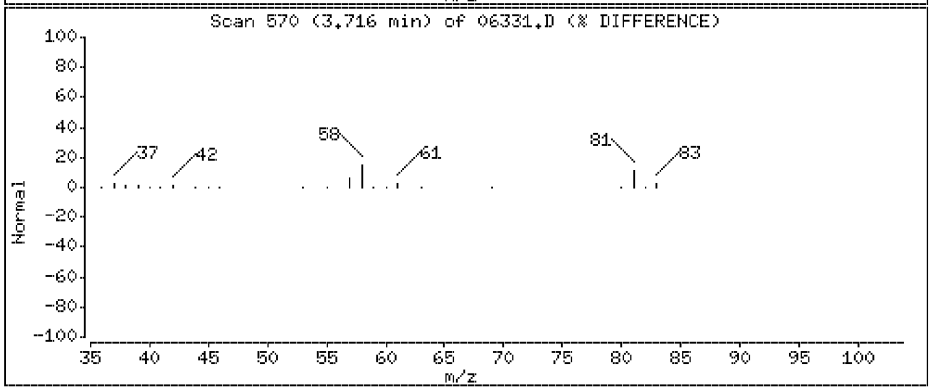












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

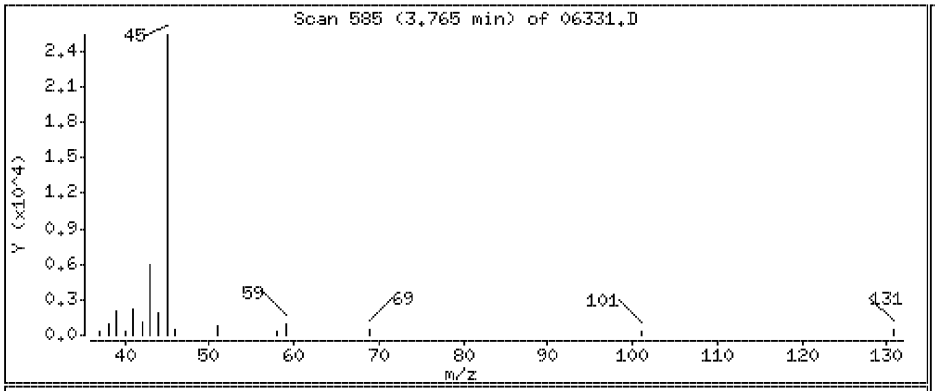
Operator: MJL

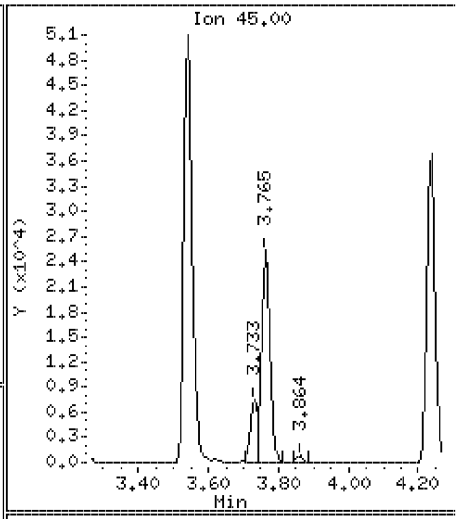
Column phase: J&W DB-5

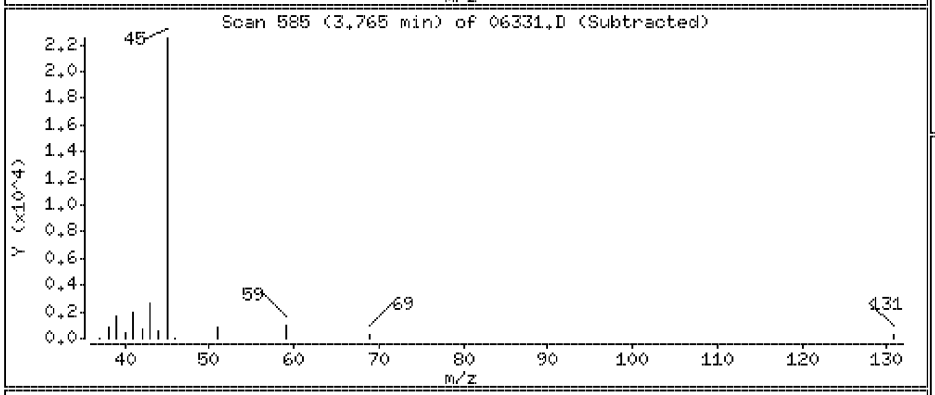
Column diameter: 0.32

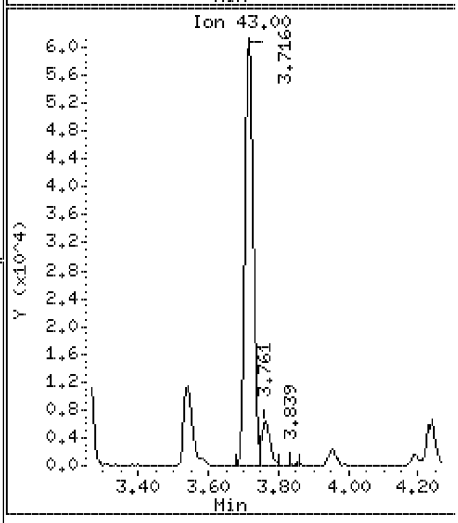
19 Isopropyl Alcohol

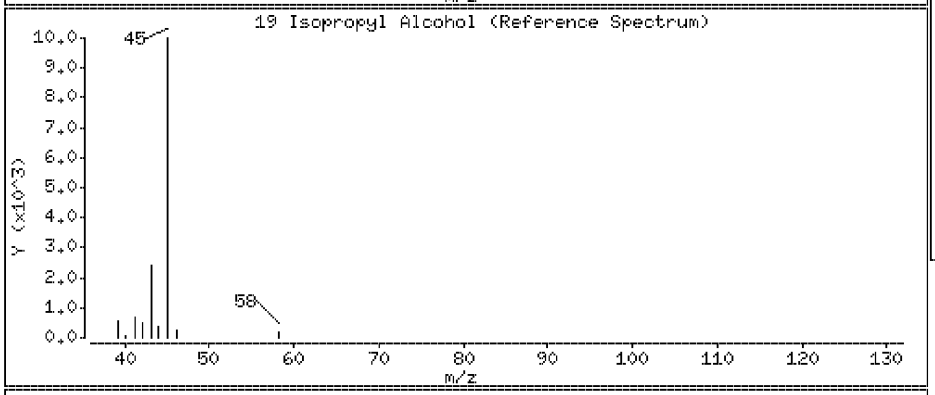
Concentration: 3.92 ppbv

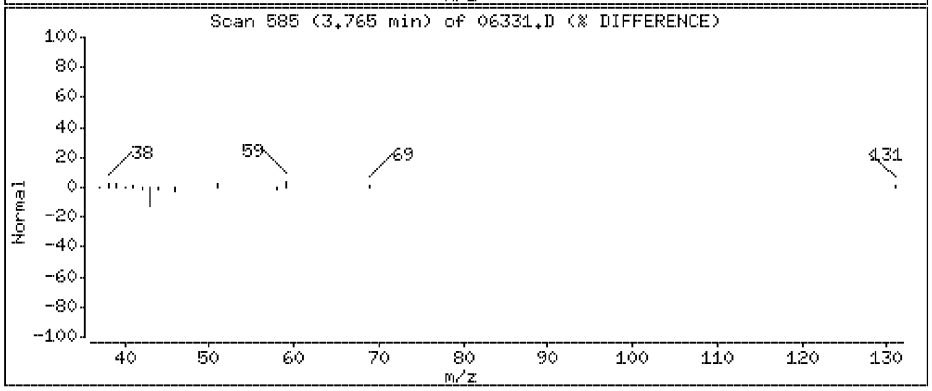












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

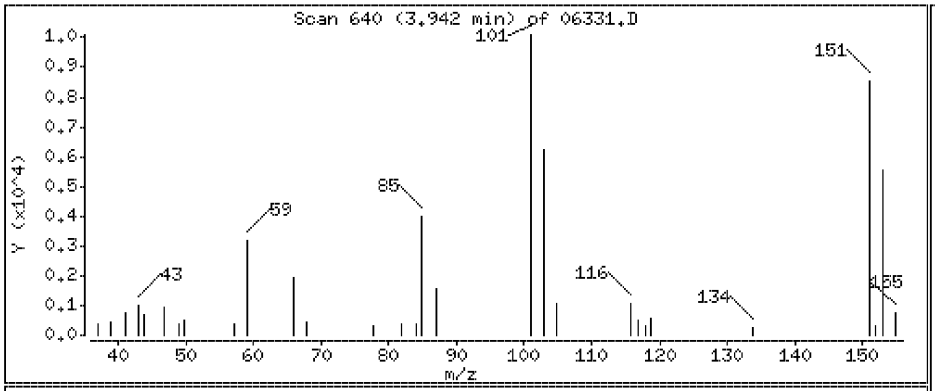
Operator: MJL

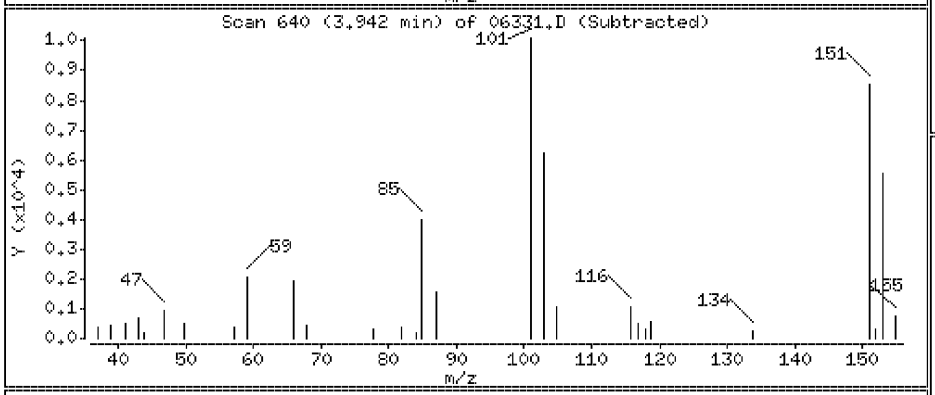
Column phase: J&W DB-5

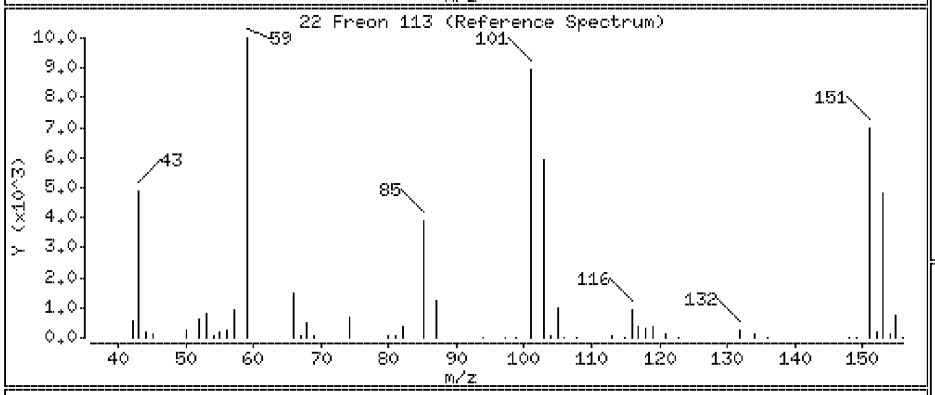
Column diameter: 0.32

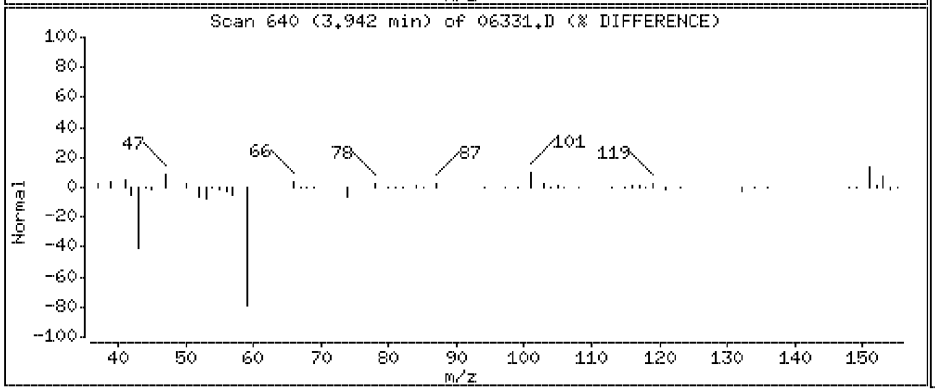
22 Freon 113

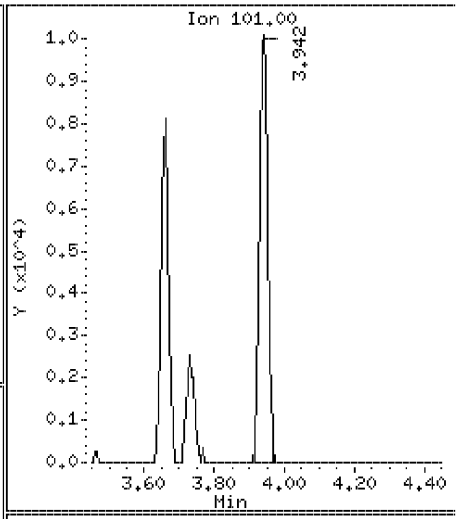
Concentration: 1.19 ppbv

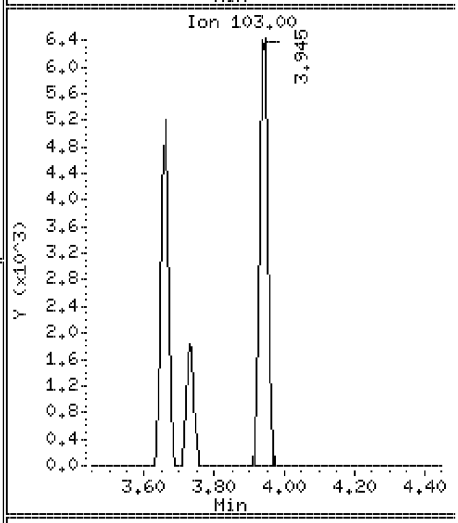


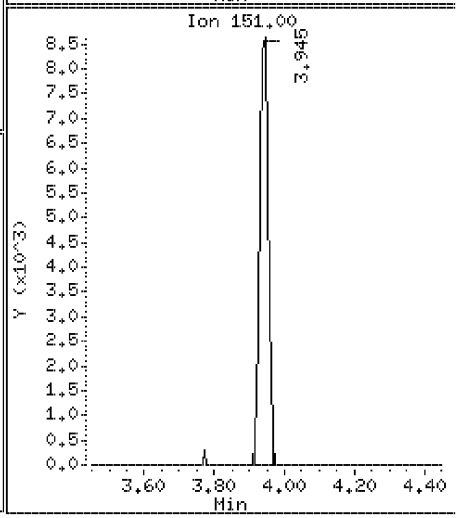












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

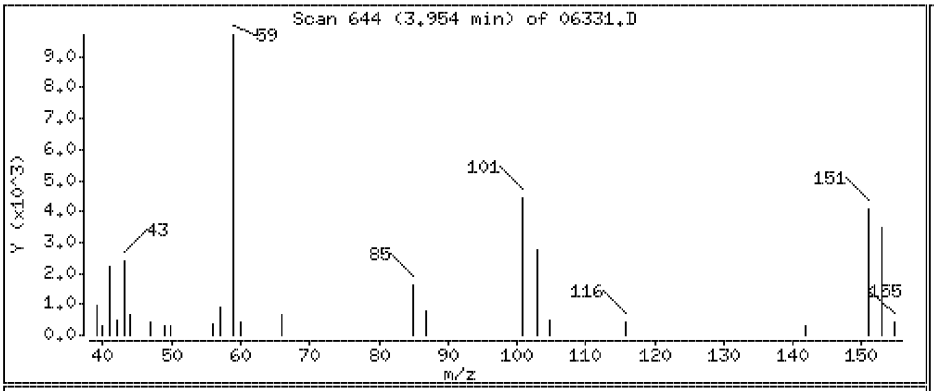
Operator: MJL

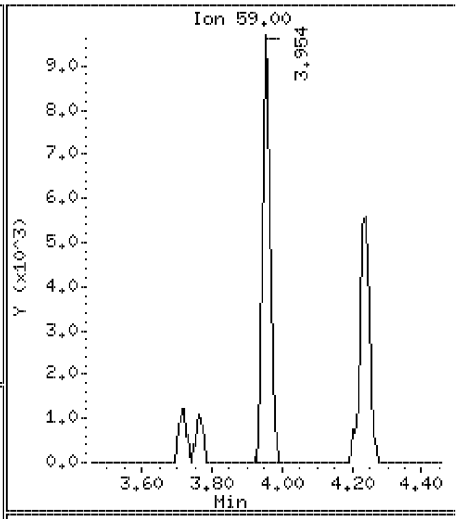
Column phase: J&W DB-5

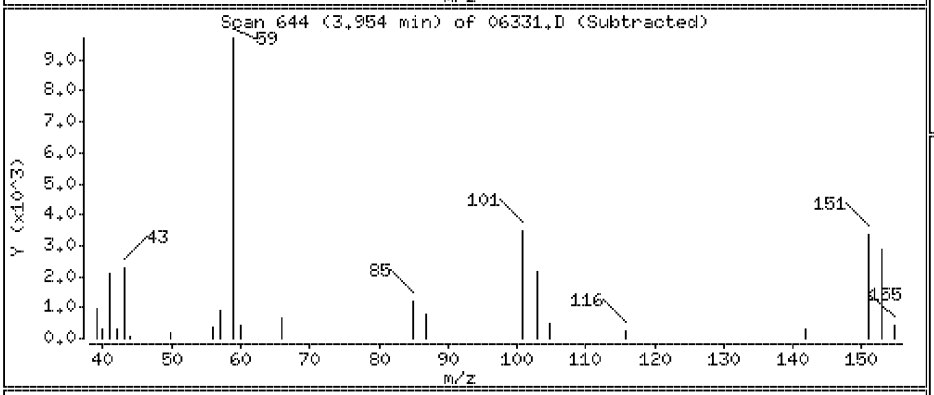
Column diameter: 0.32

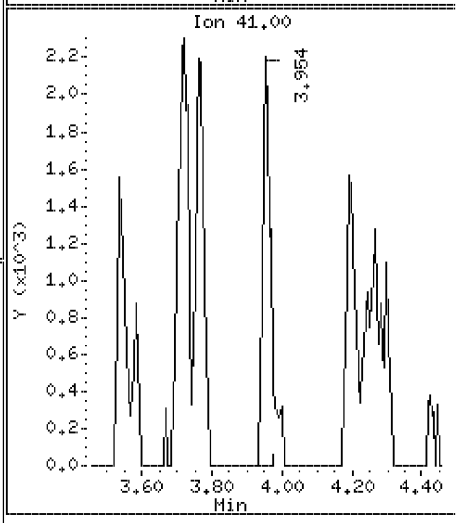
24 Tert Butyl Alcohol (TBA)

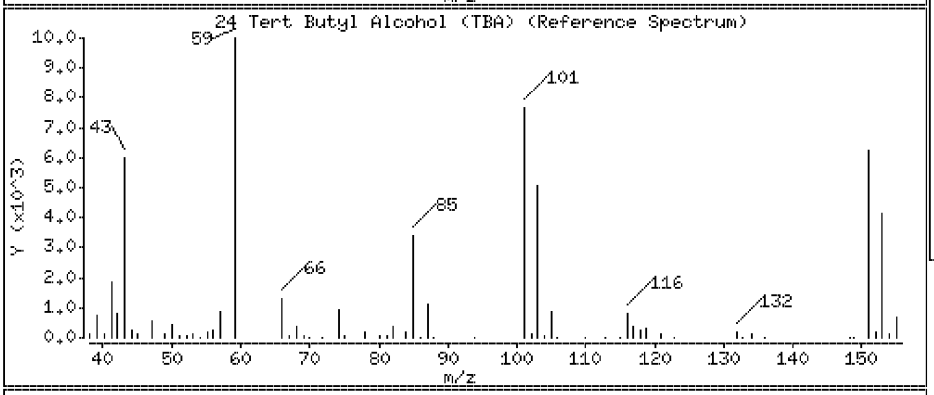
Concentration: 1.06 ppbv

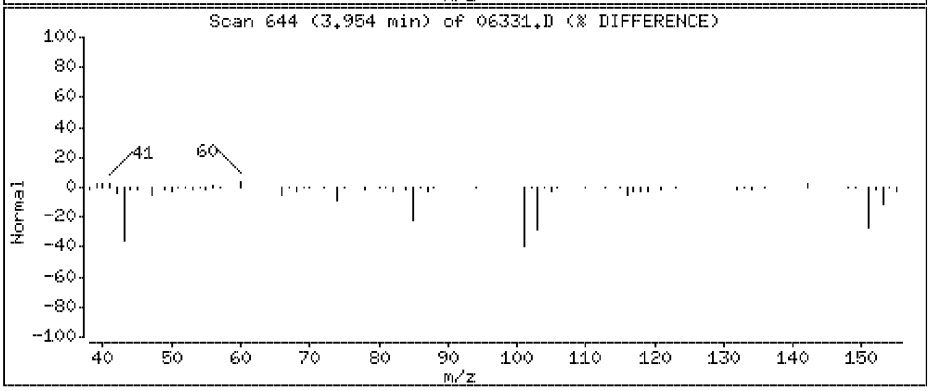












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

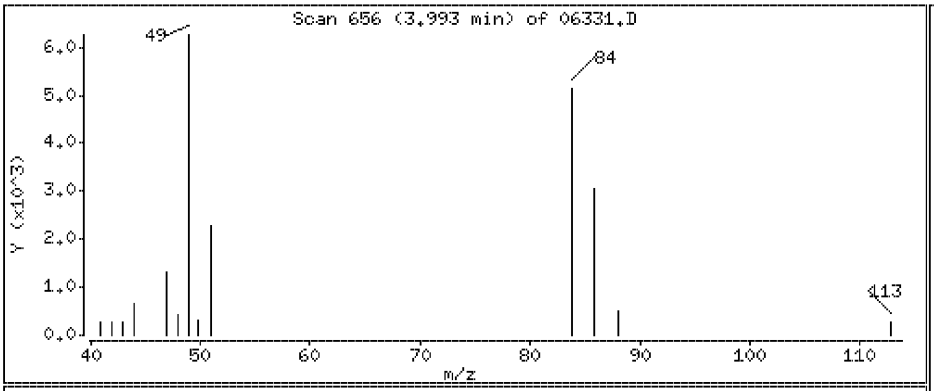
Operator: MJL

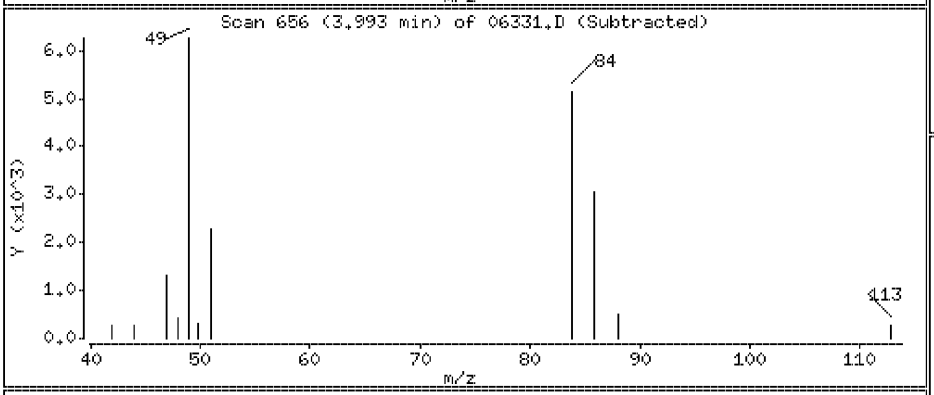
Column phase: J&W DB-5

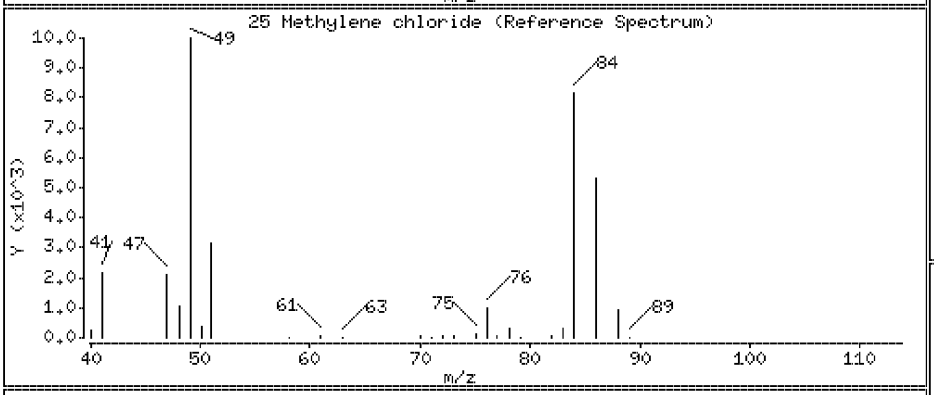
Column diameter: 0.32

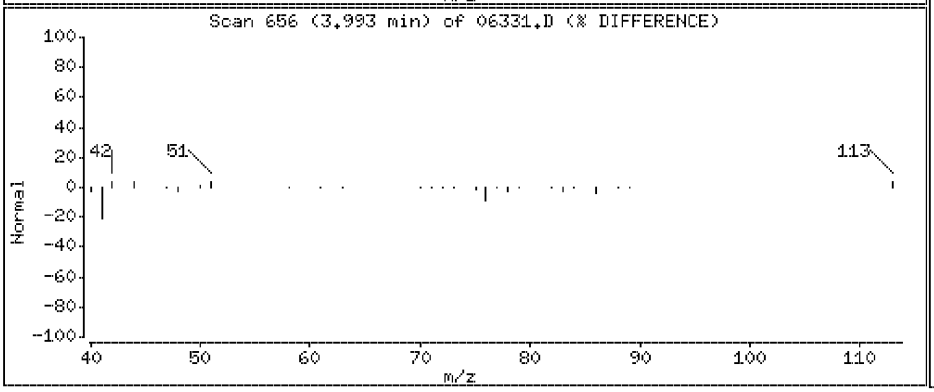
25 Methylene chloride

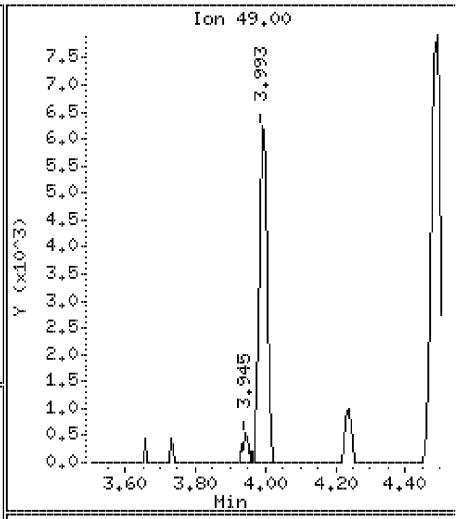
Concentration: 1.38 ppbv

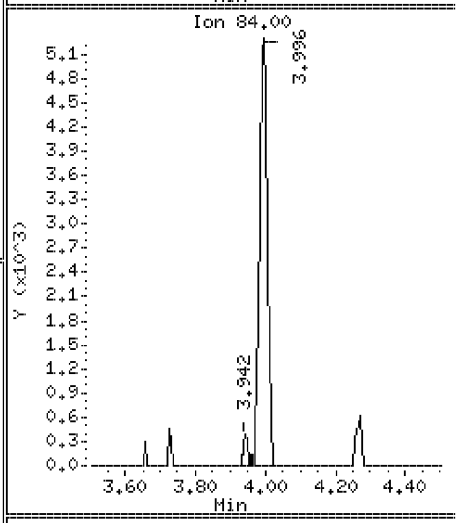


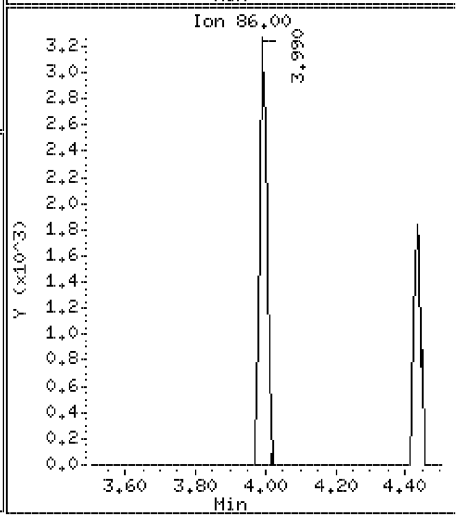












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

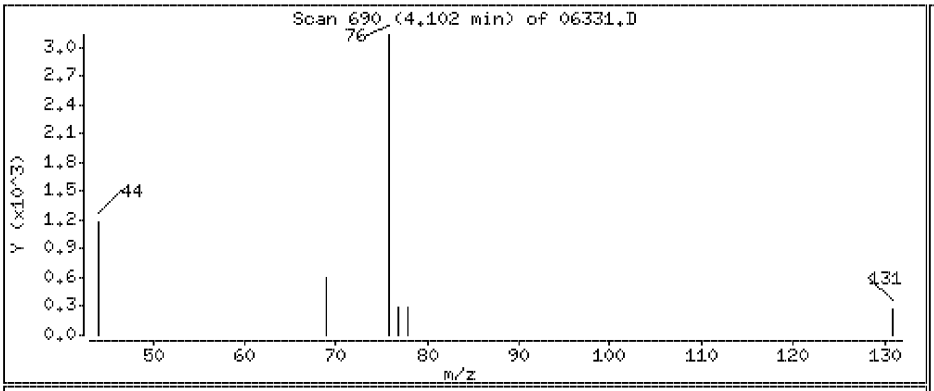
Operator: MJL

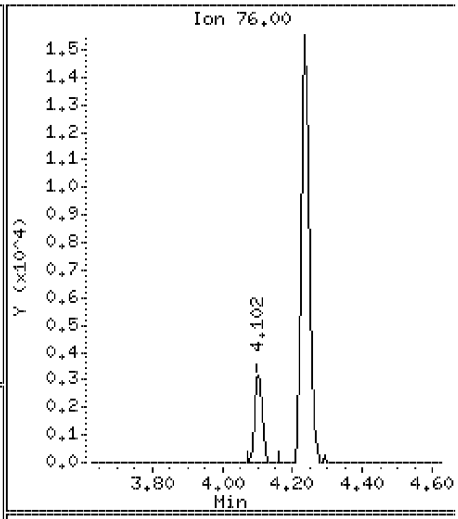
Column phase: J&W DB-5

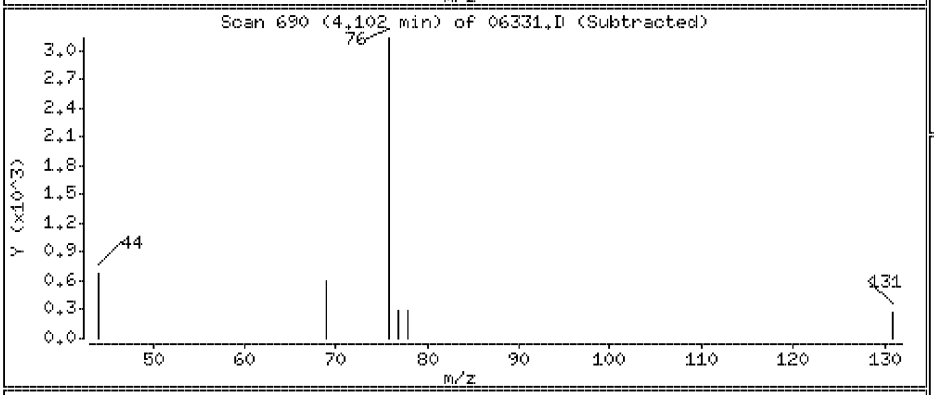
Column diameter: 0.32

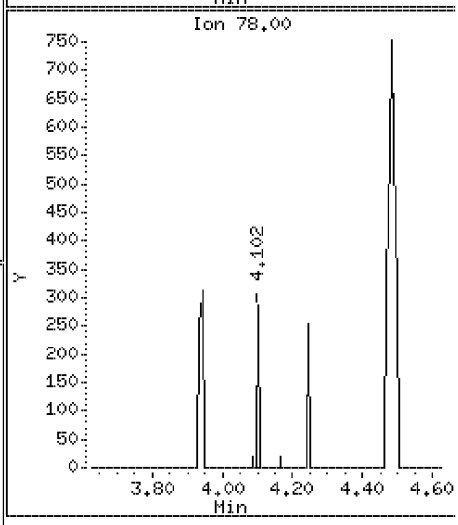
27 Carbon Disulfide

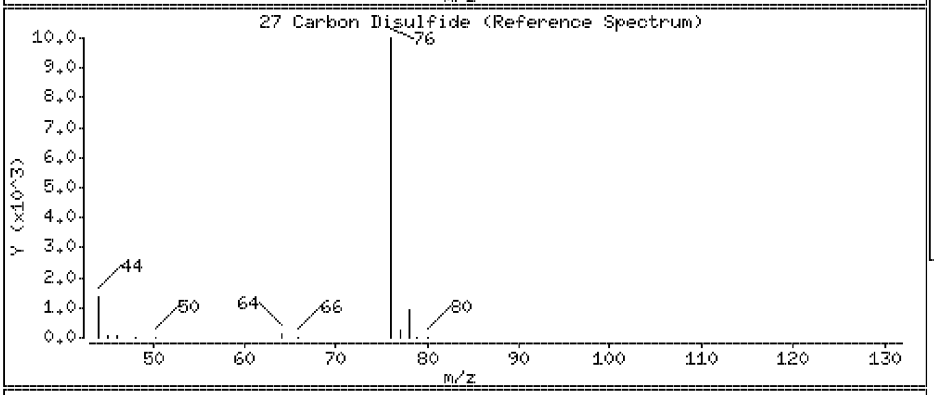
Concentration: 0.343 ppbv

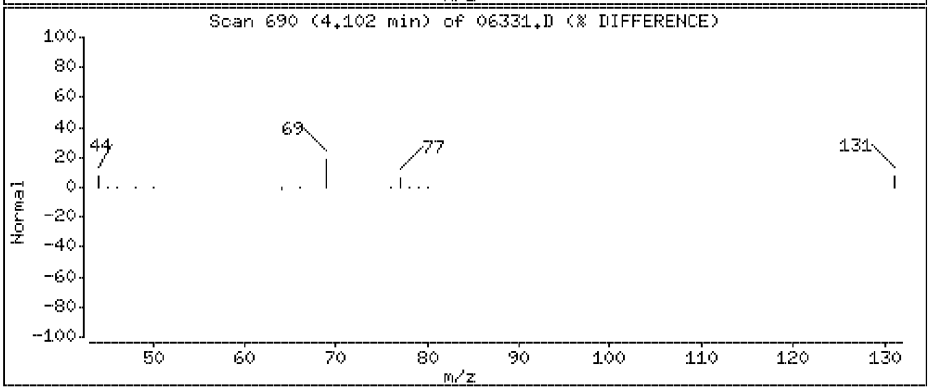












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

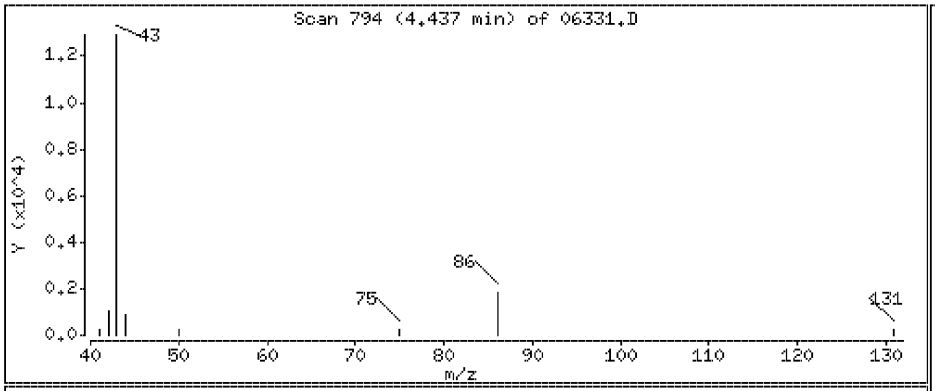
Operator: MJL

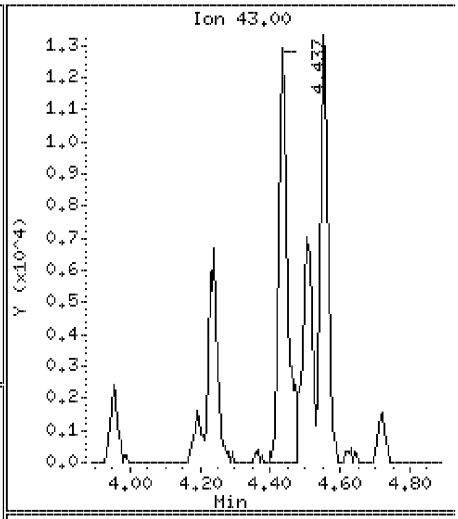
Column phase: J&W DB-5

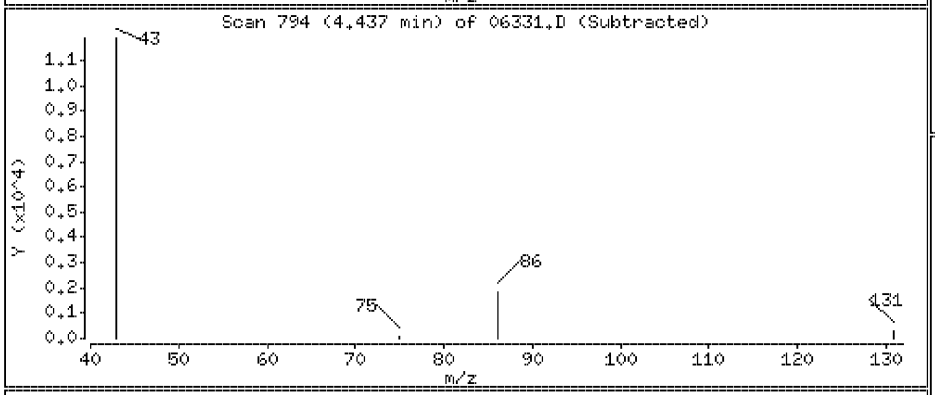
Column diameter: 0.32

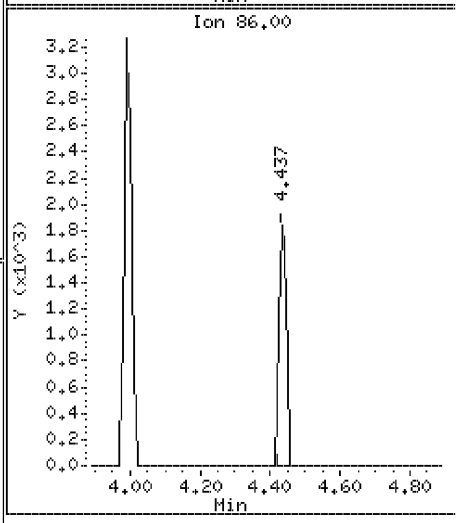
30 Vinyl Acetate

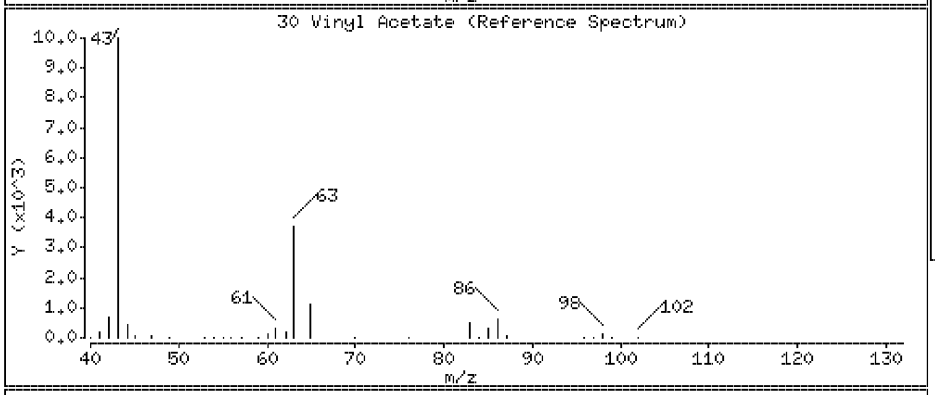
Concentration: 1.56 ppbv

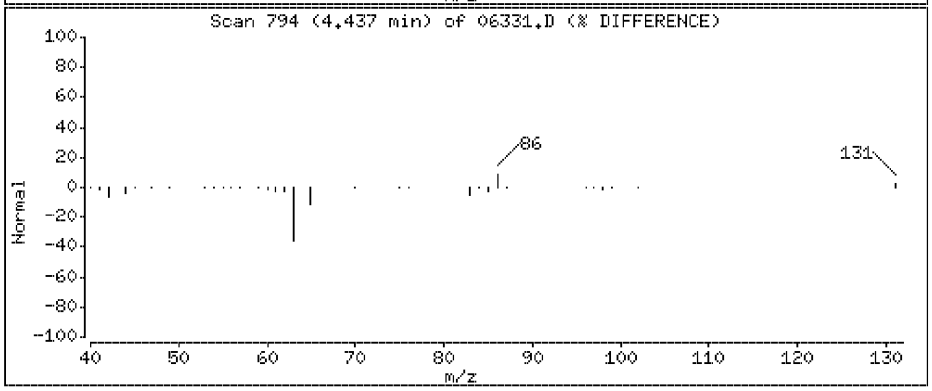












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

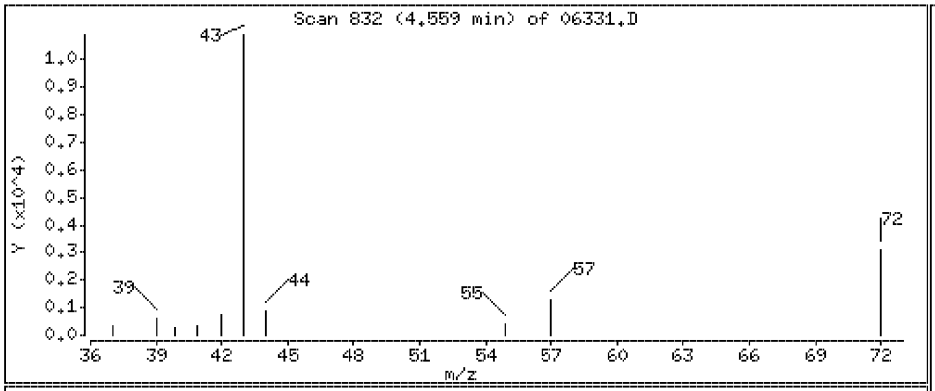
Operator: MJL

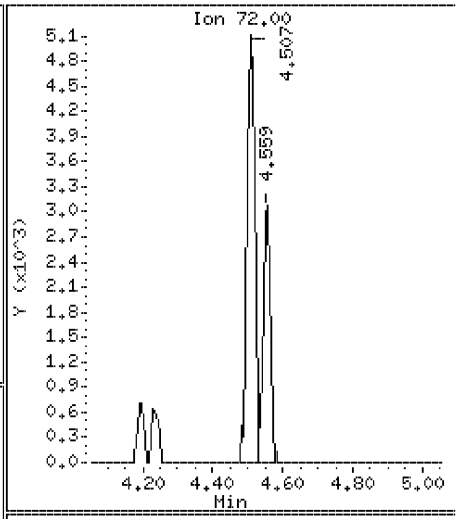
Column phase: J&W DB-5

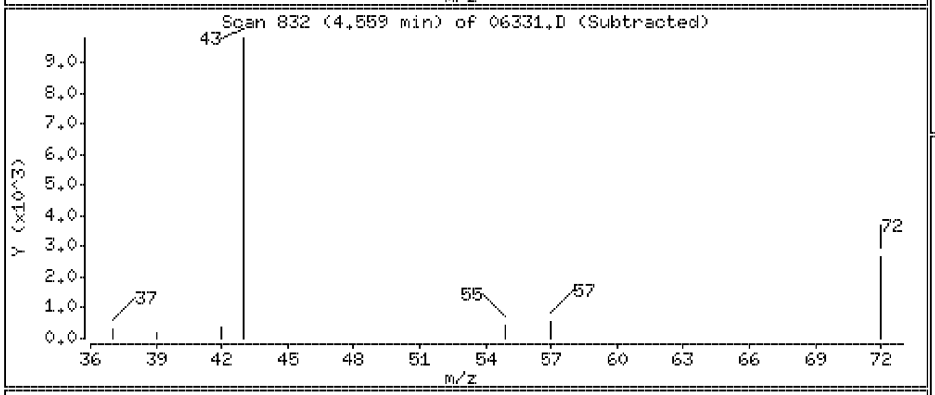
Column diameter: 0.32

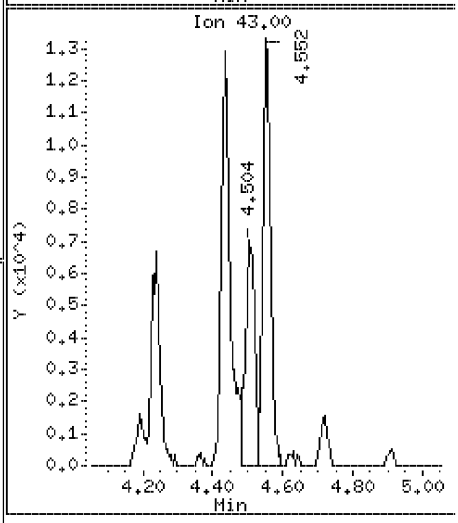
33 Methyl Ethyl Ketone

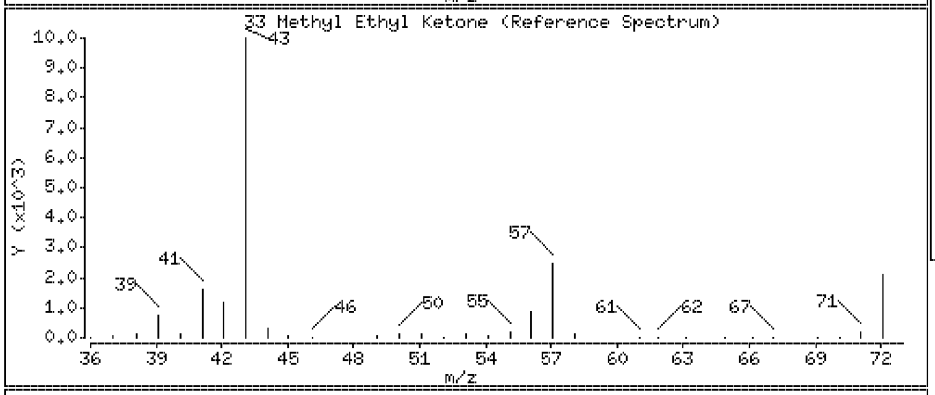
Concentration: 1.51 ppbv

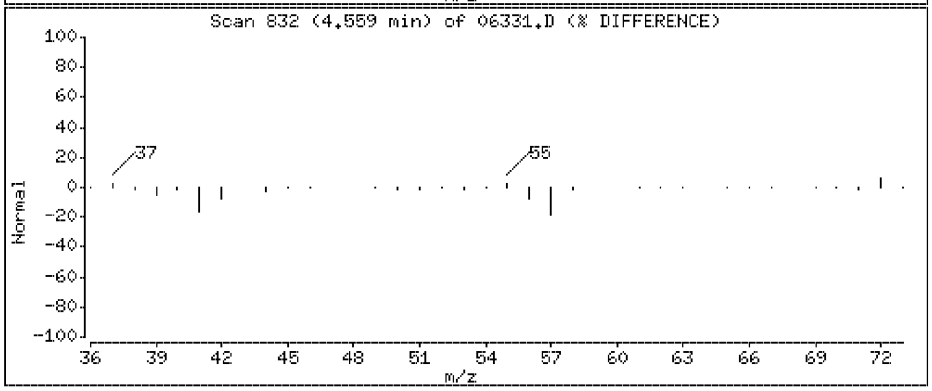












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

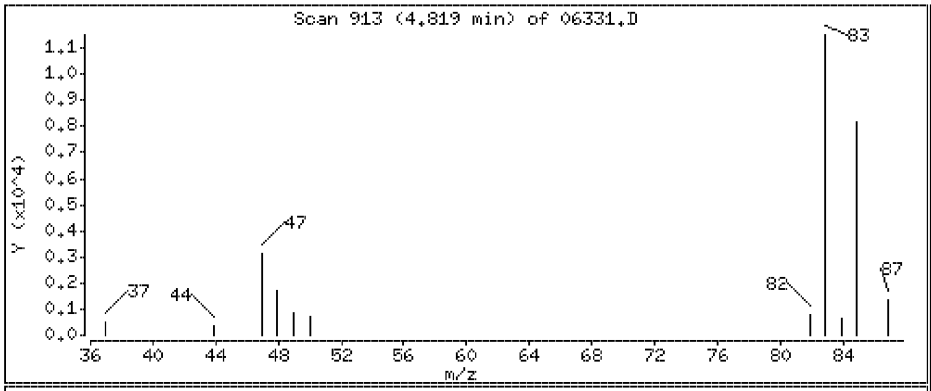
Operator: MJL

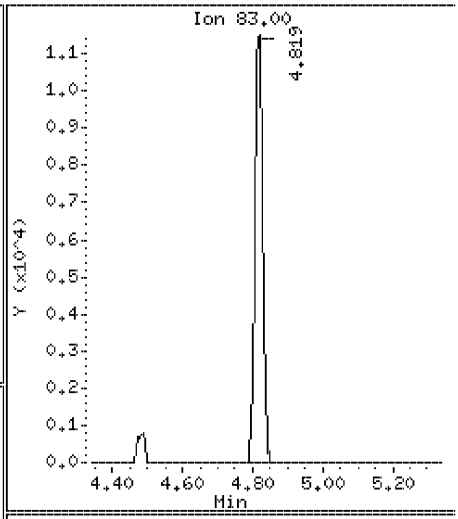
Column phase: J&W DB-5

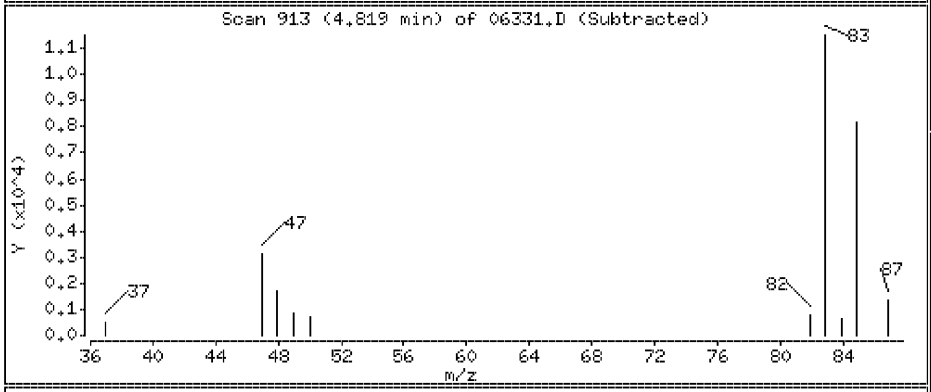
Column diameter: 0.32

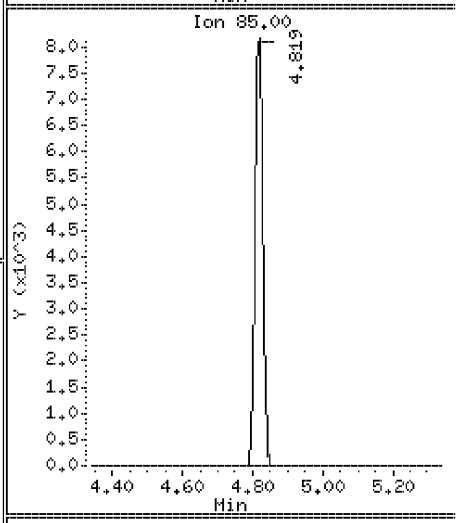
39 Chloroform

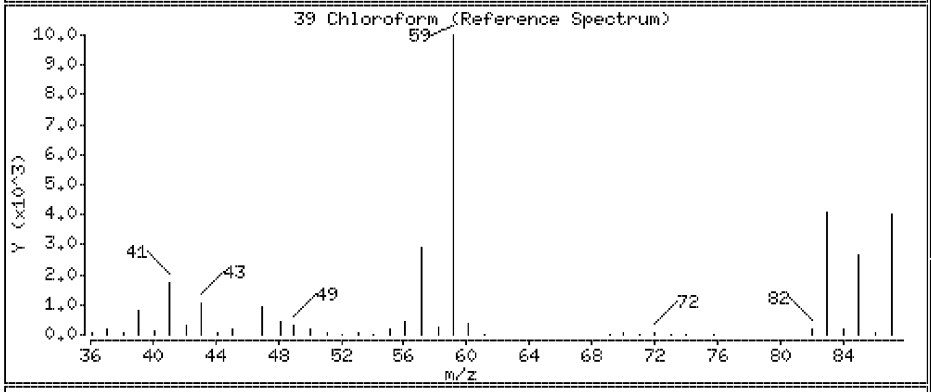
Concentration: 1.32 ppbv

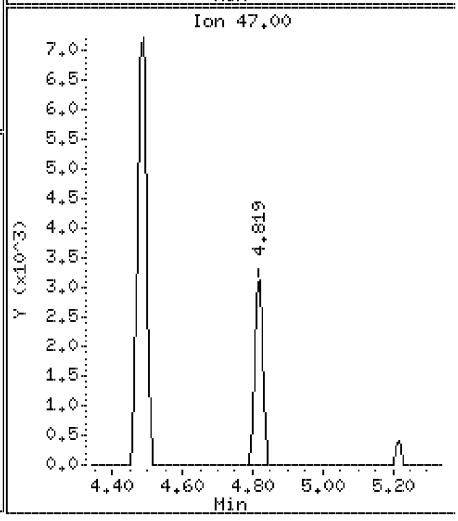


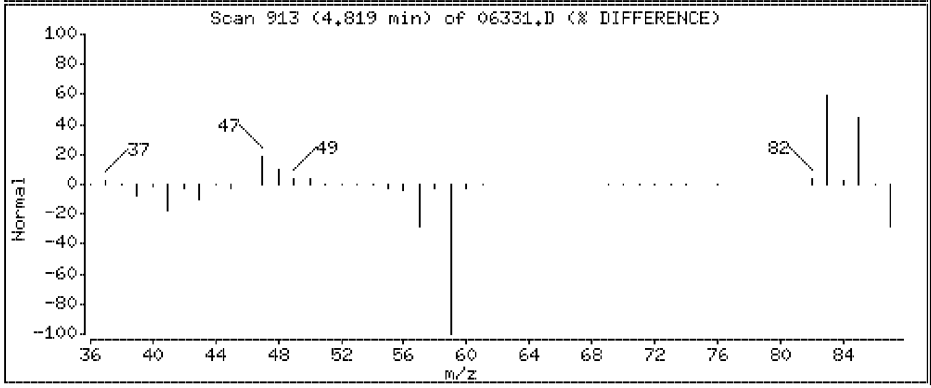












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

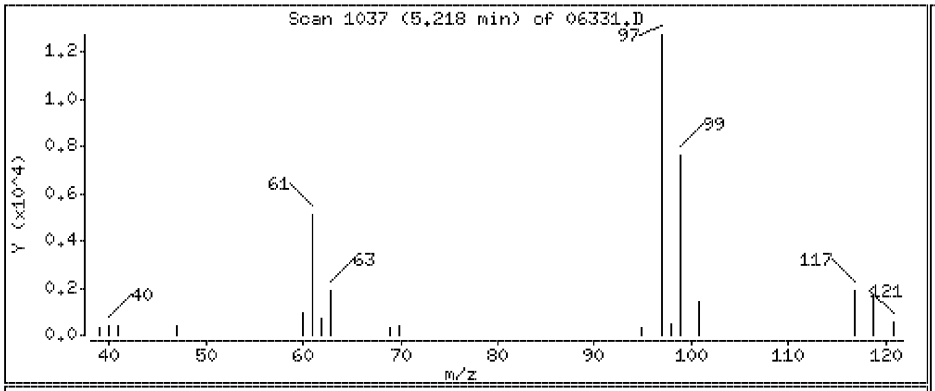
Operator: MJL

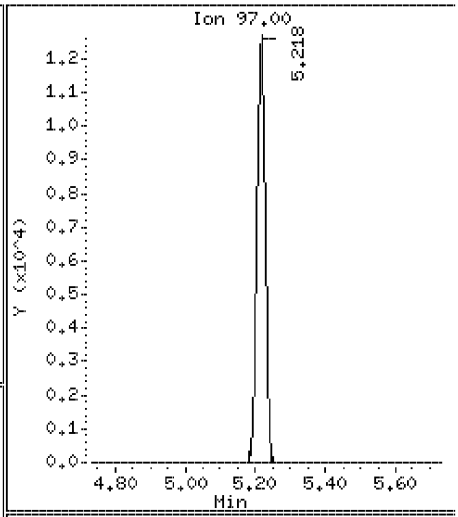
Column phase: J&W DB-5

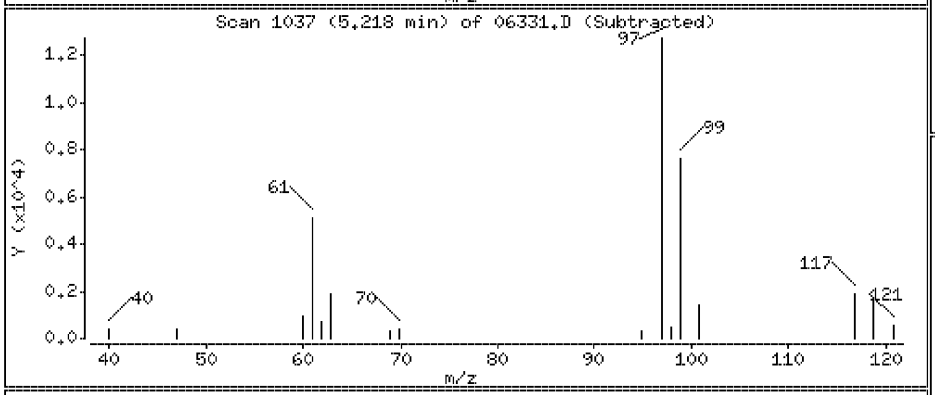
Column diameter: 0.32

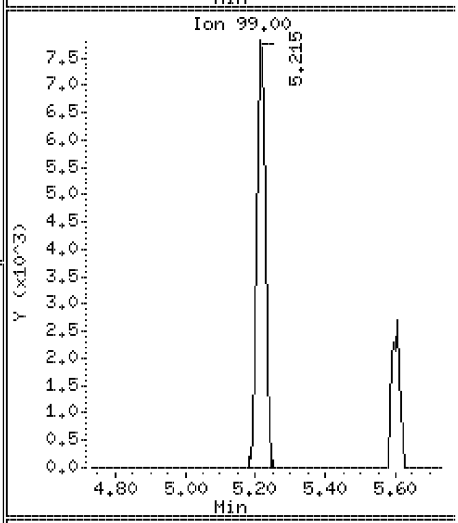
41 1,1,1-Trichloroethane

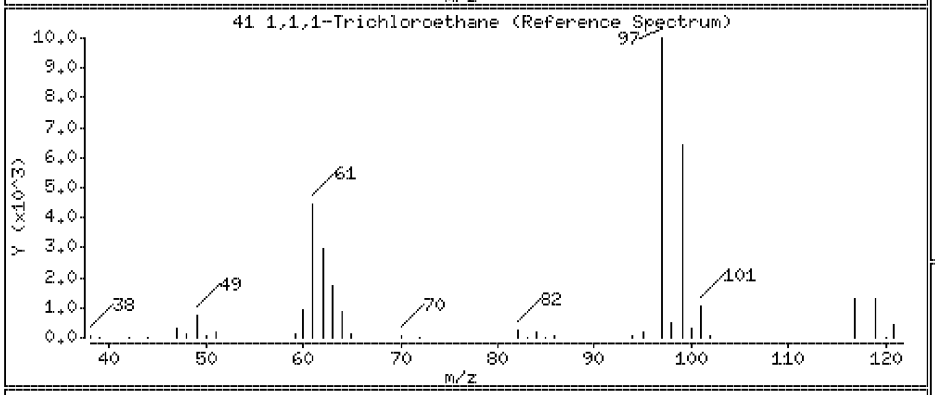
Concentration: 1.31 ppbv

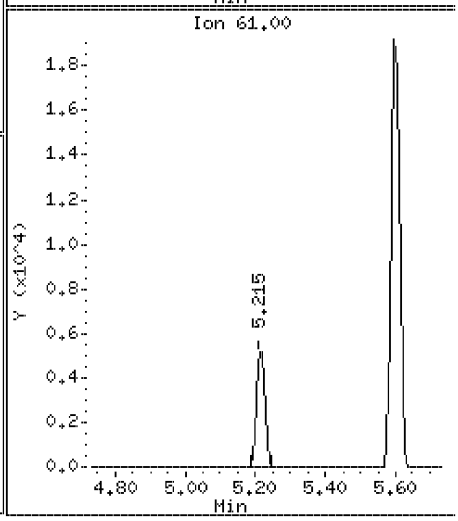


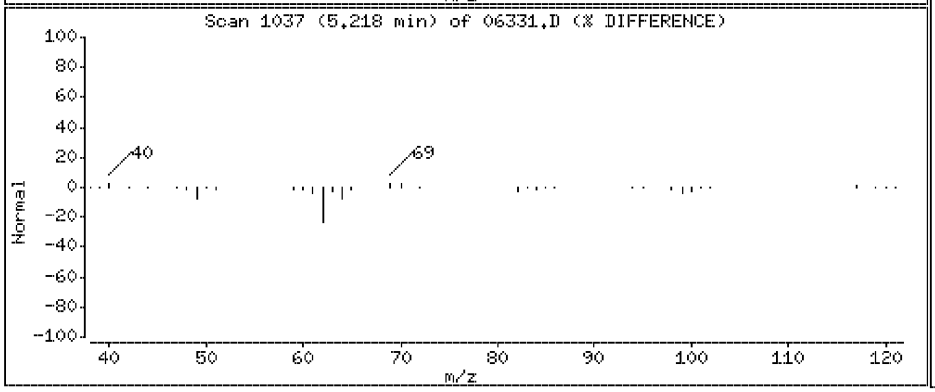












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

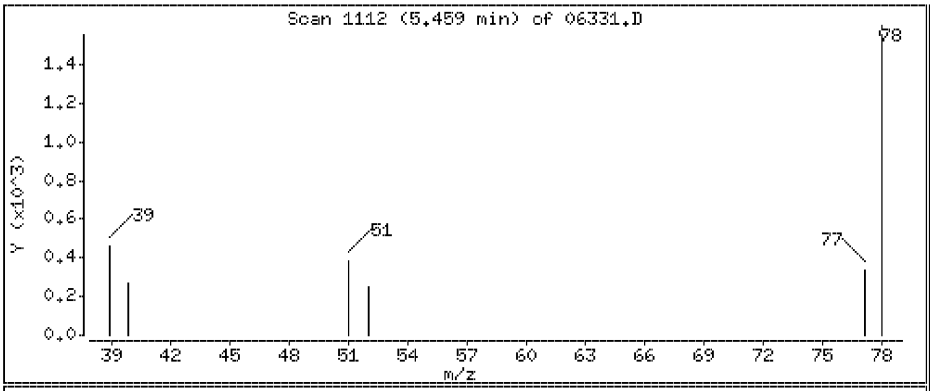
Operator: MJL

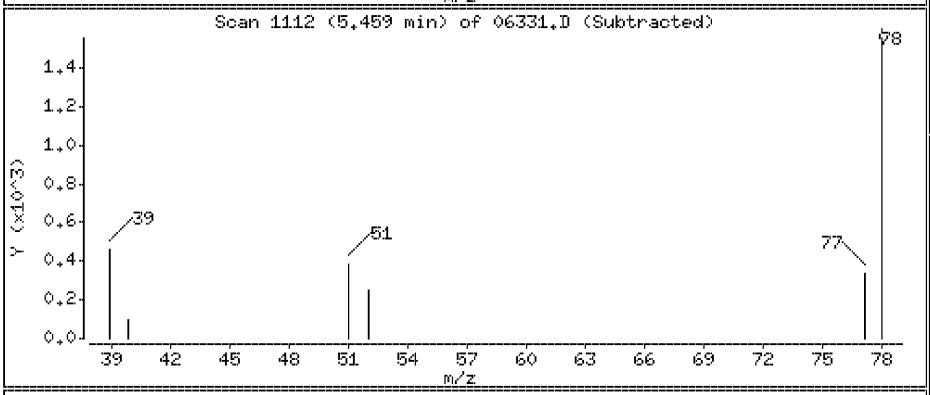
Column phase: J&W DB-5

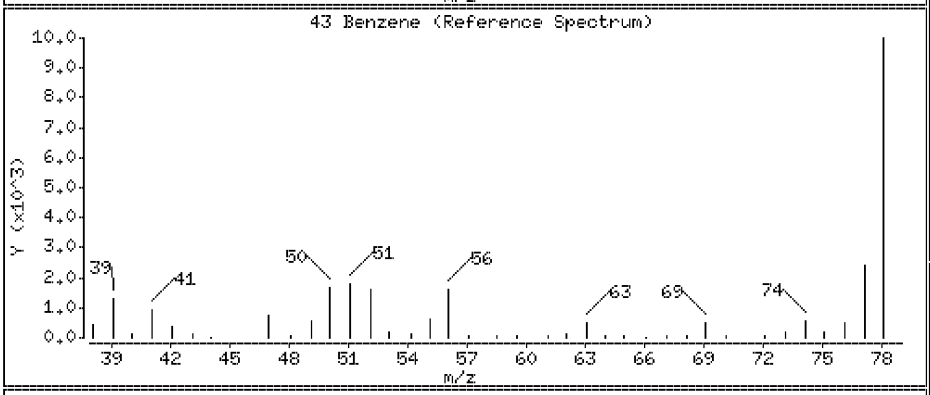
Column diameter: 0.32

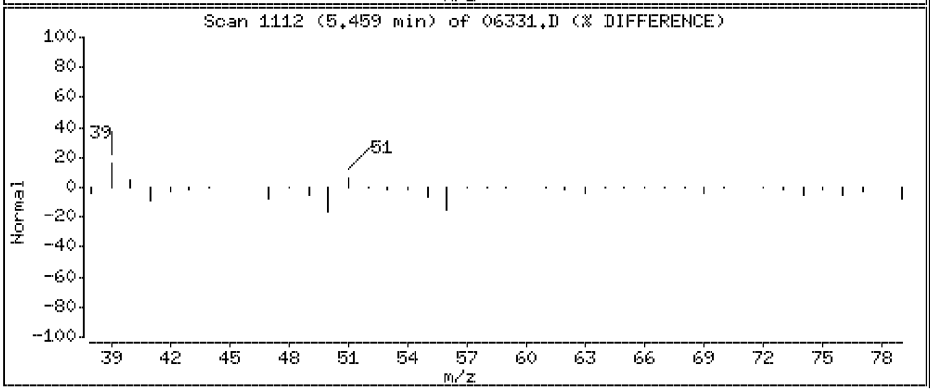
43 Benzene

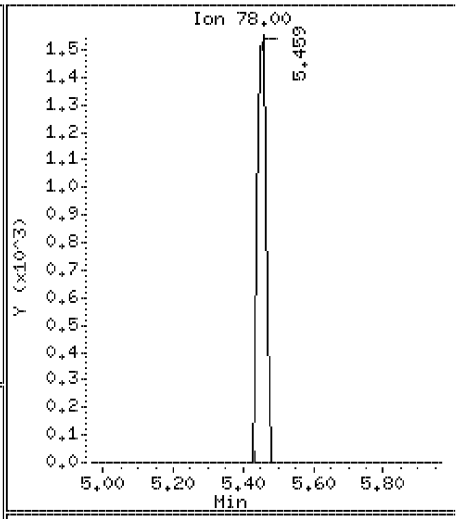
Concentration: 0.127 ppbv

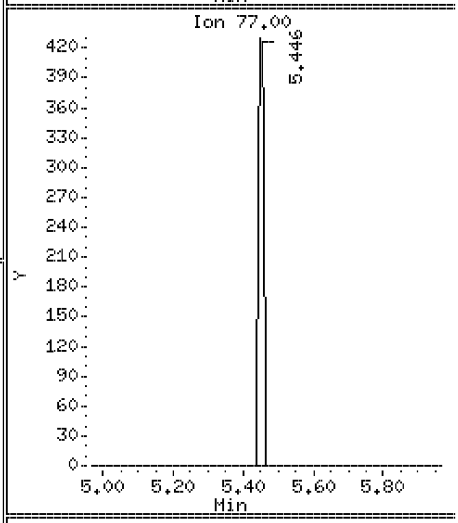


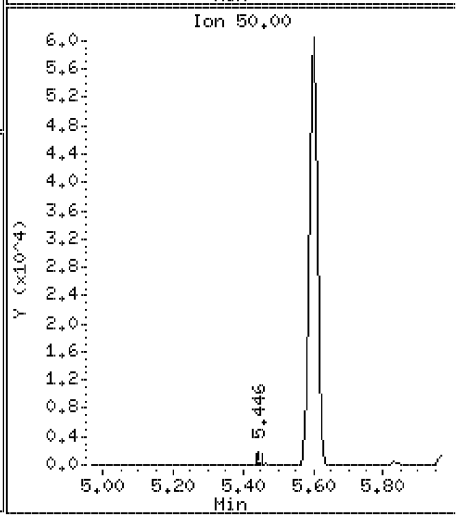












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

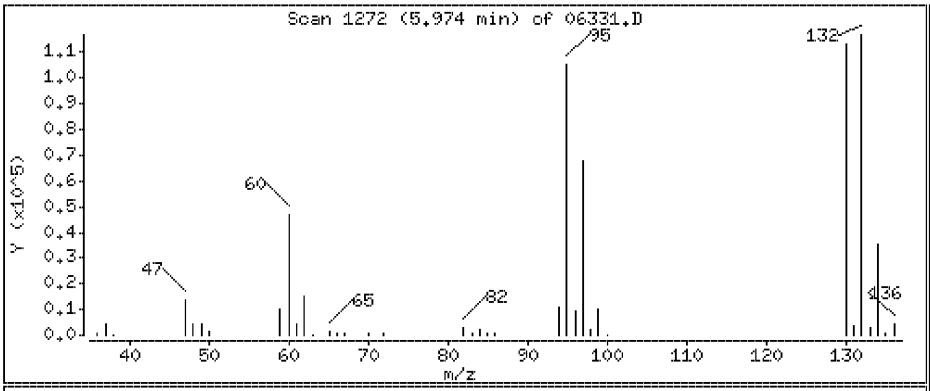
Operator: MJL

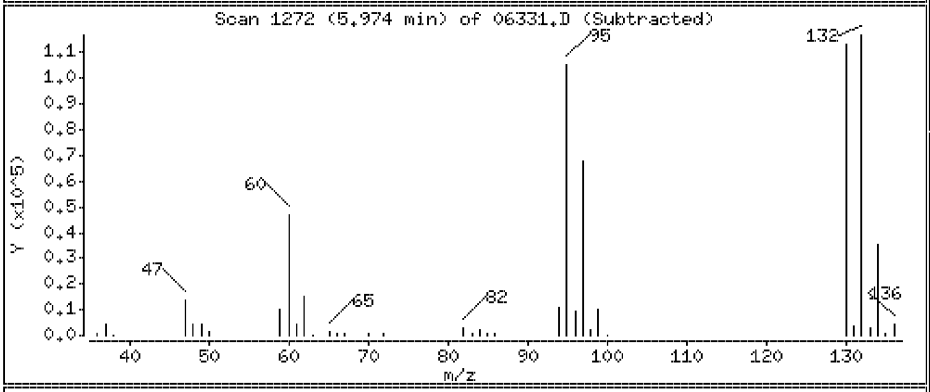
Column phase: J&W DB-5

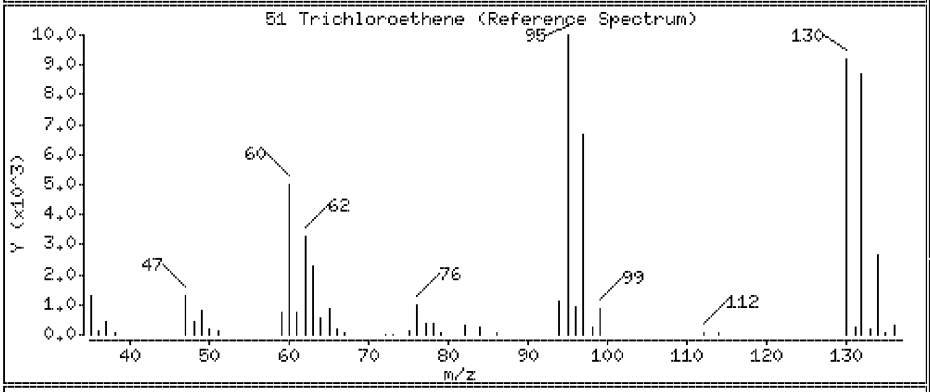
Column diameter: 0.32

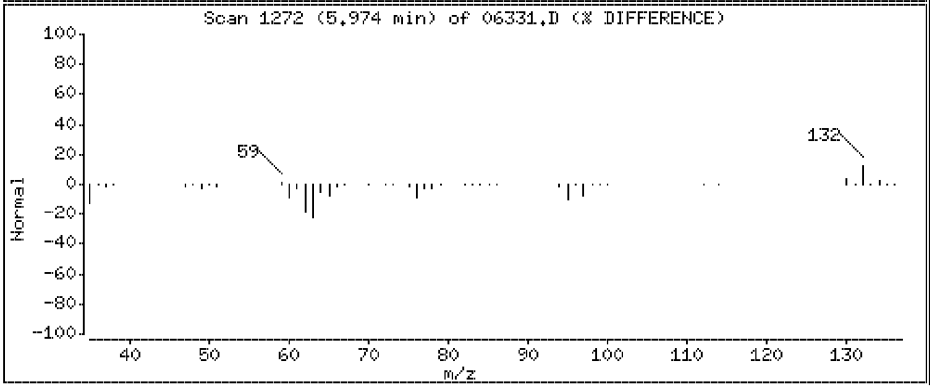
51 Trichloroethene

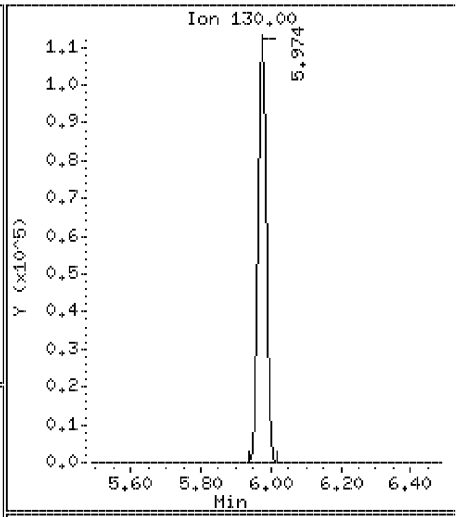
Concentration: 16.6 ppbv

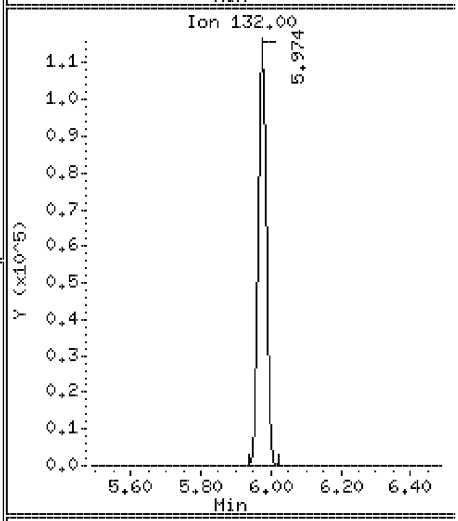


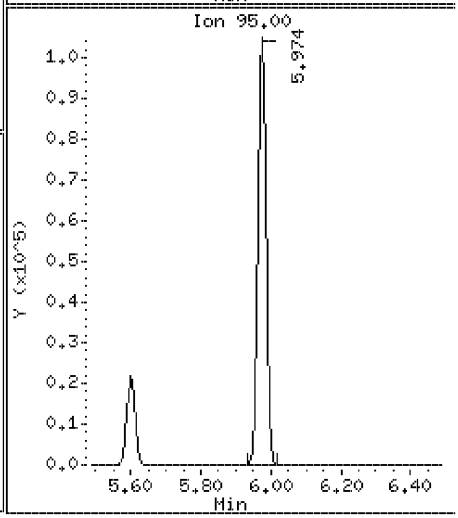












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

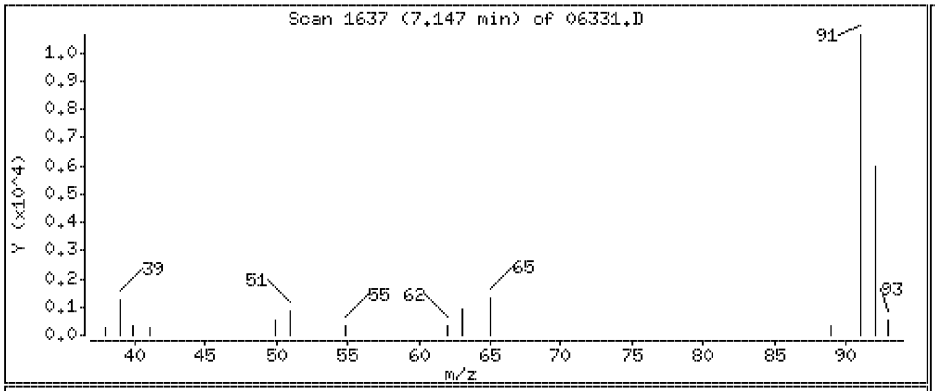
Operator: MJL

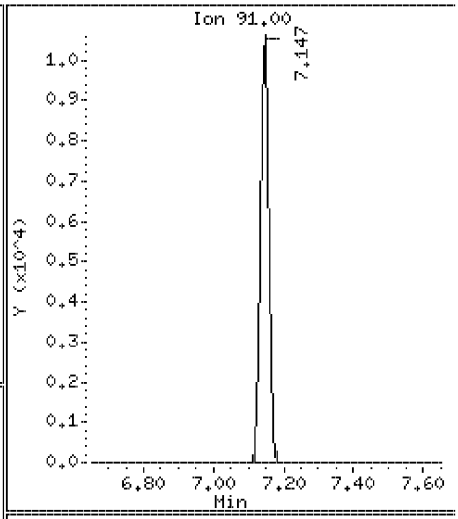
Column phase: J&W DB-5

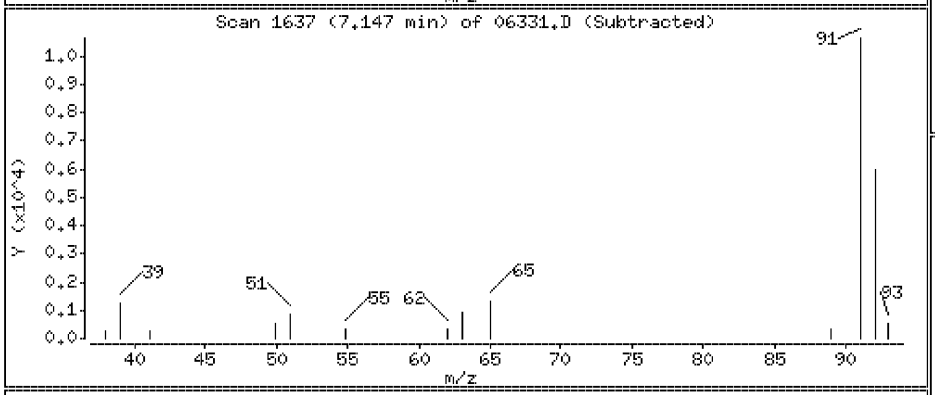
Column diameter: 0.32

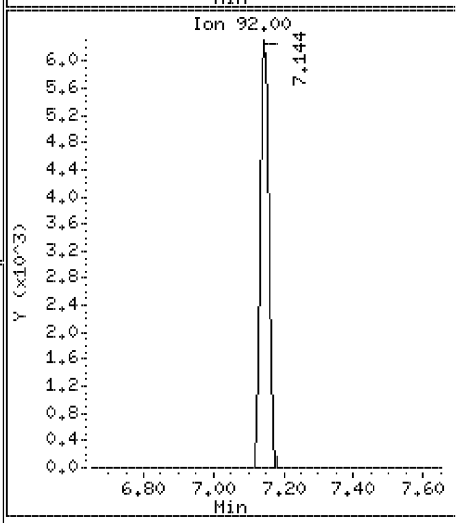
61 Toluene

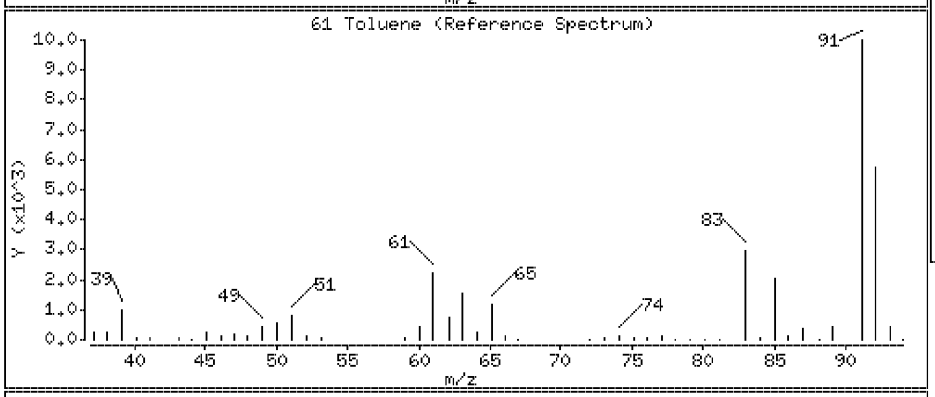
Concentration: 0.661 ppbv

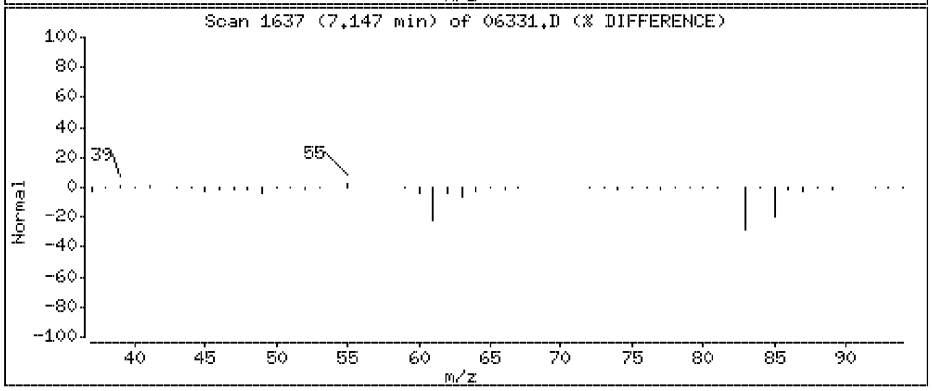












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

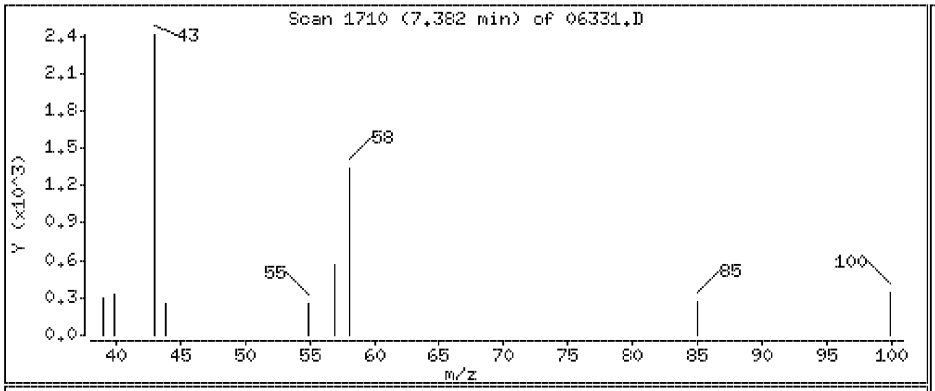
Operator: MJL

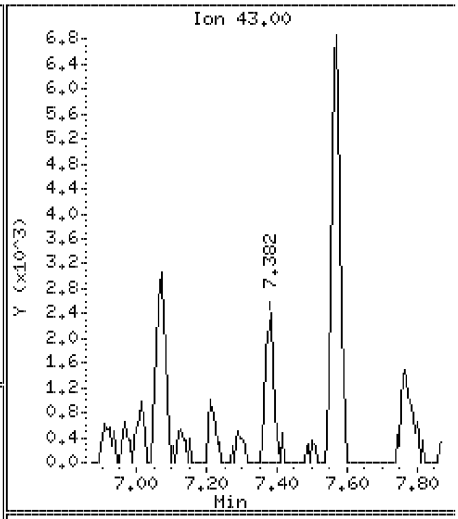
Column phase: J&W DB-5

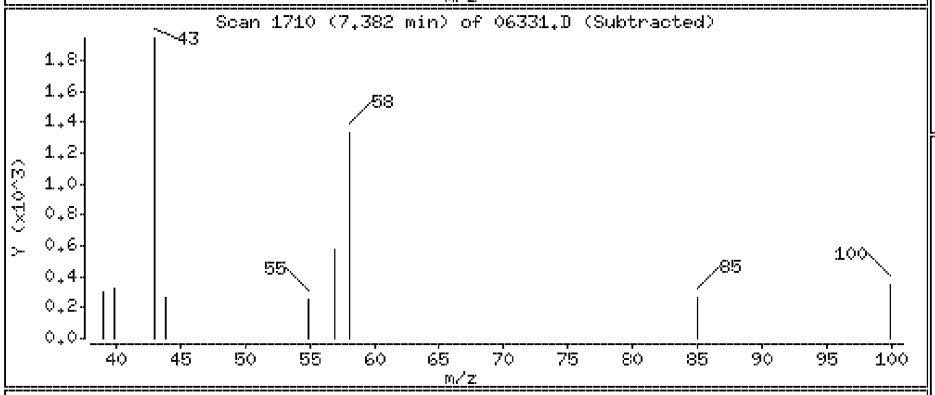
Column diameter: 0.32

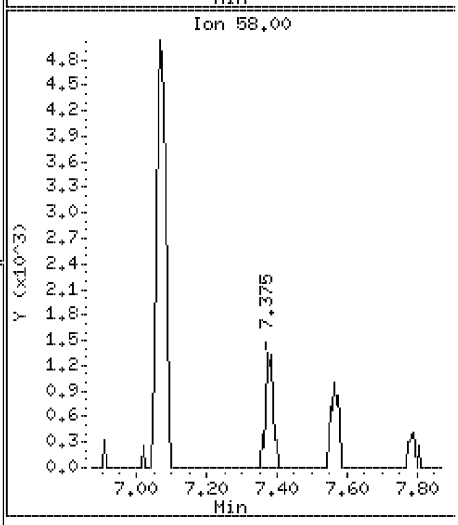
62 Methyl Butyl Ketone

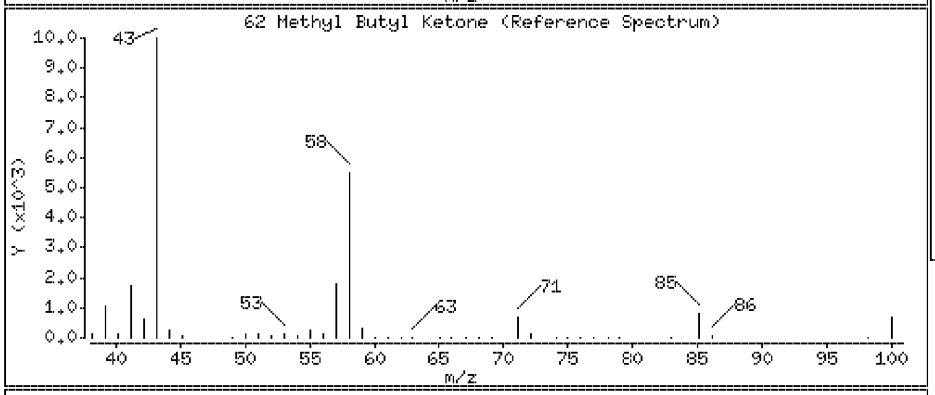
Concentration: 0.288 ppbv

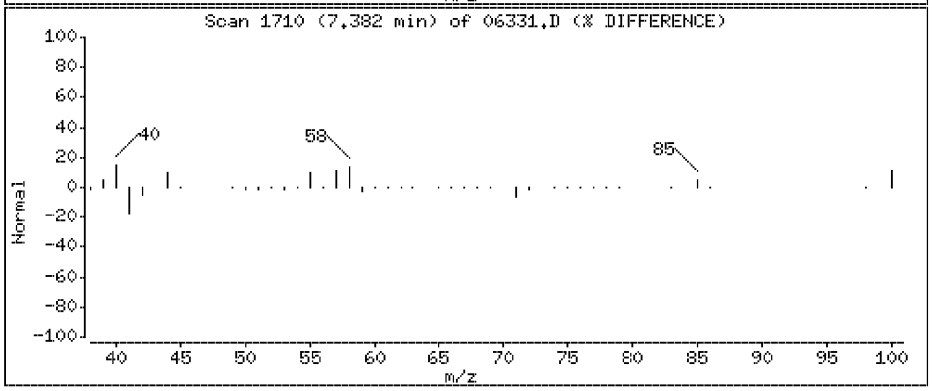












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

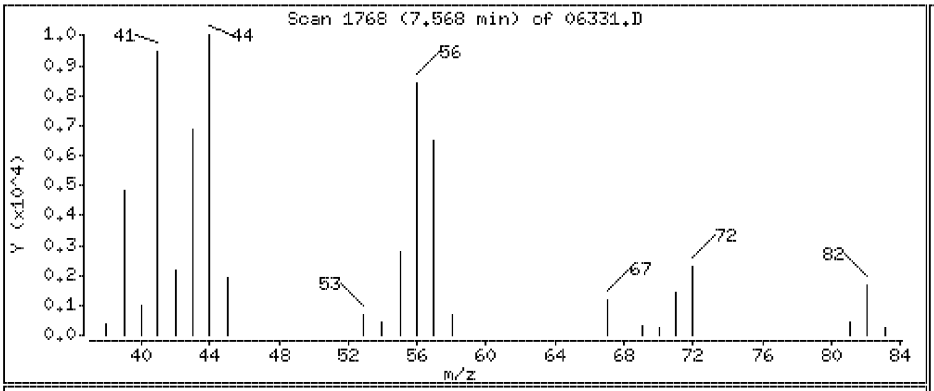
Operator: MJL

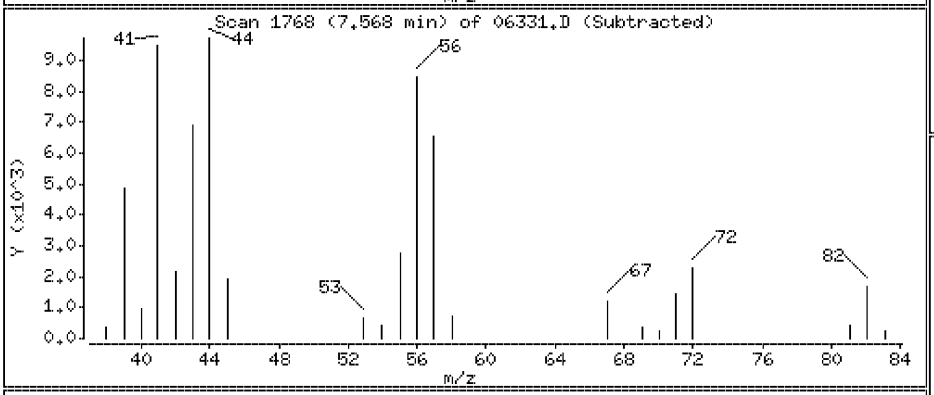
Column phase: J&W DB-5

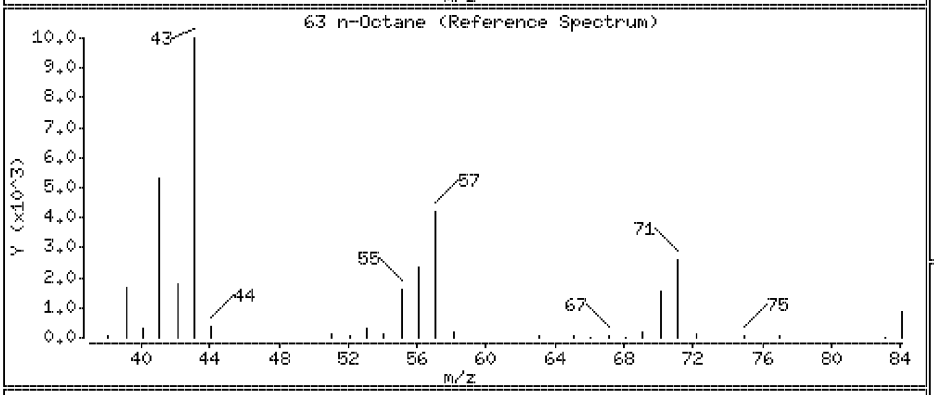
Column diameter: 0.32

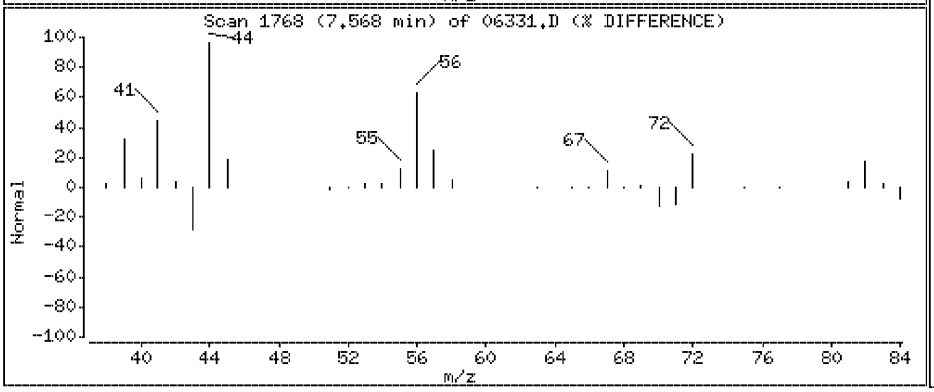
63 n-Octane

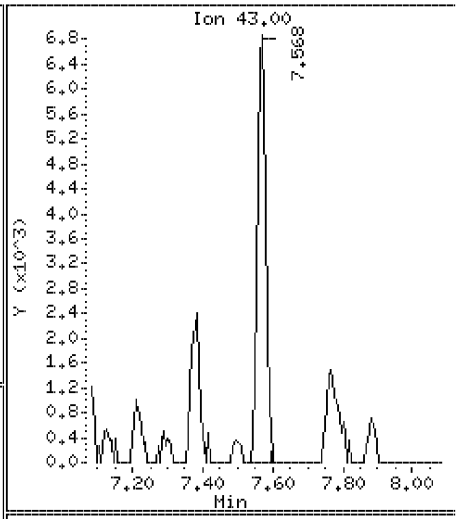
Concentration: 0.764 ppbv

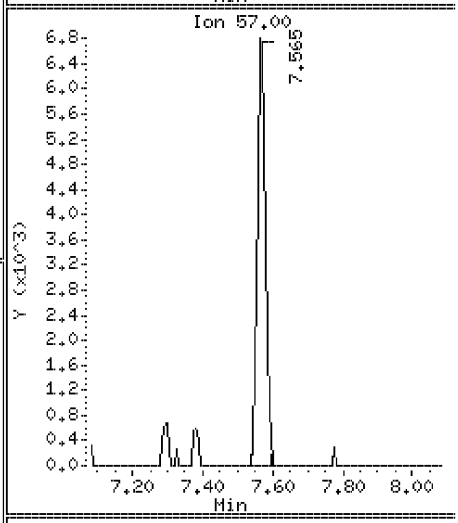


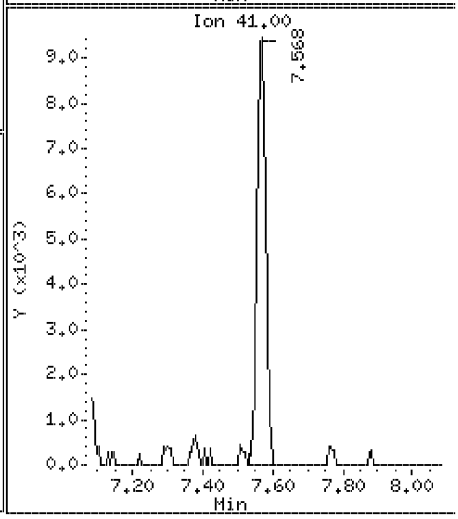












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

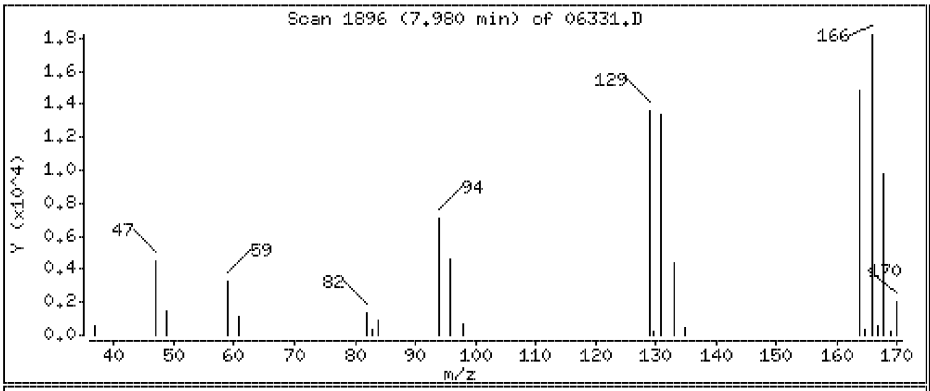
Operator: MJL

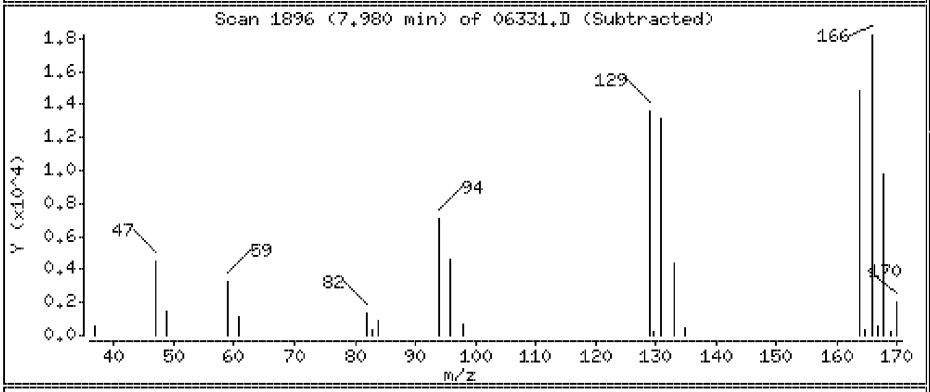
Column phase: J&W DB-5

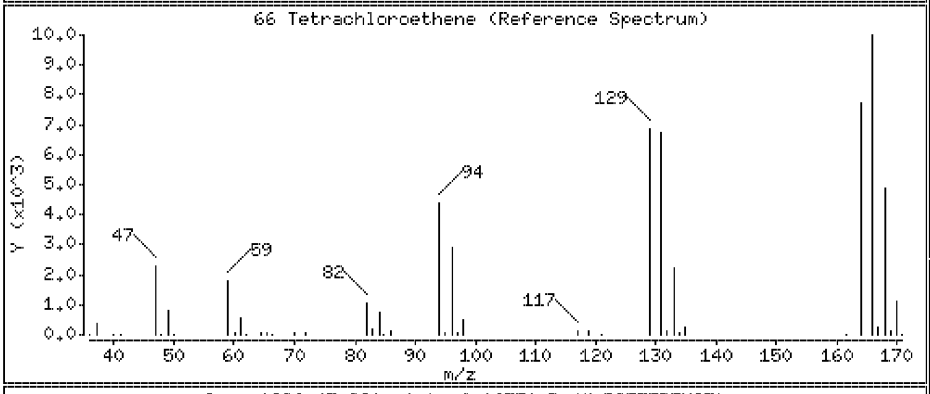
Column diameter: 0.32

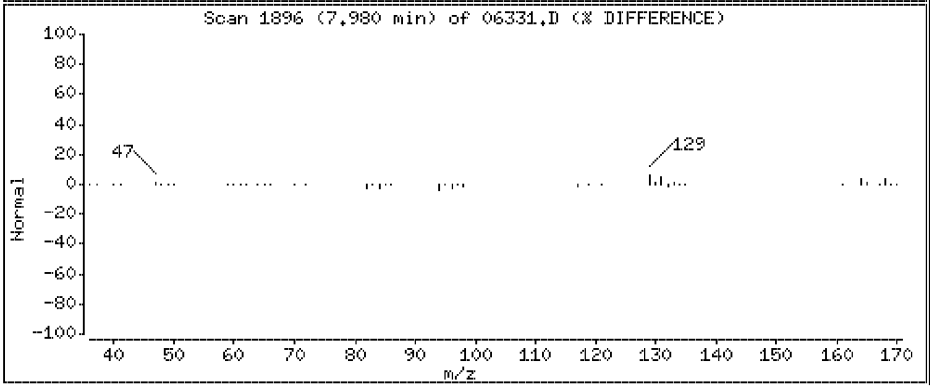
66 Tetrachloroethene

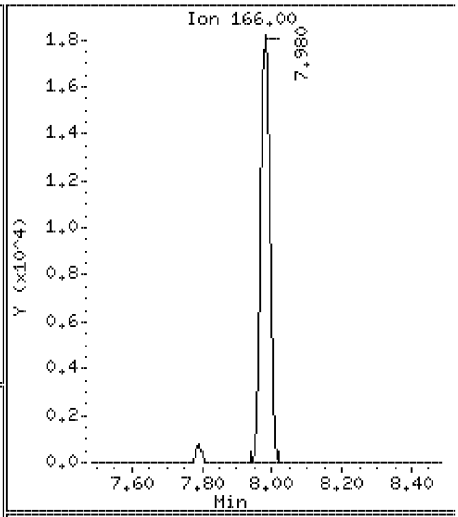
Concentration: 2.15 ppbv

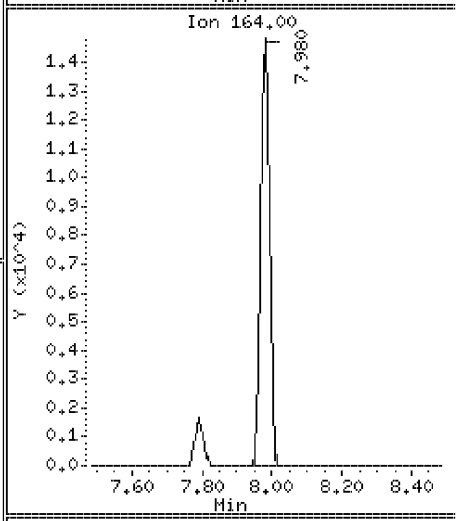


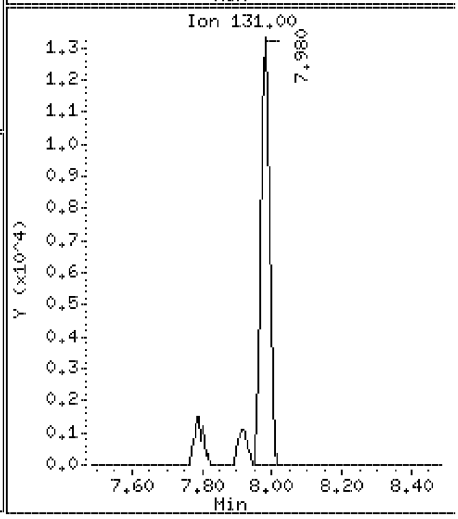












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

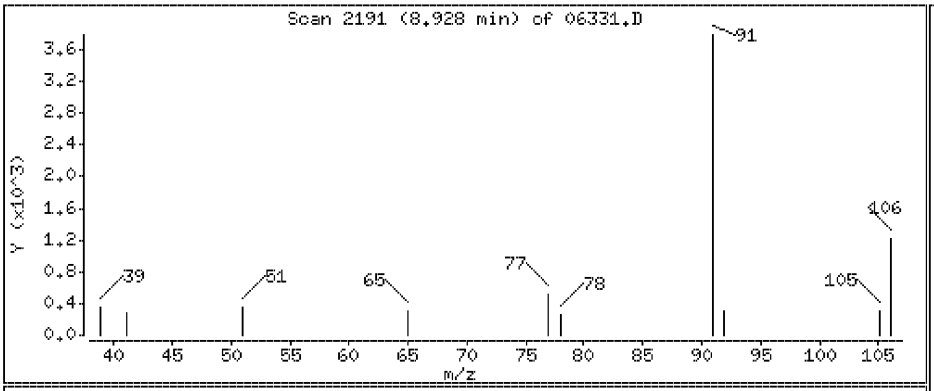
Operator: MJL

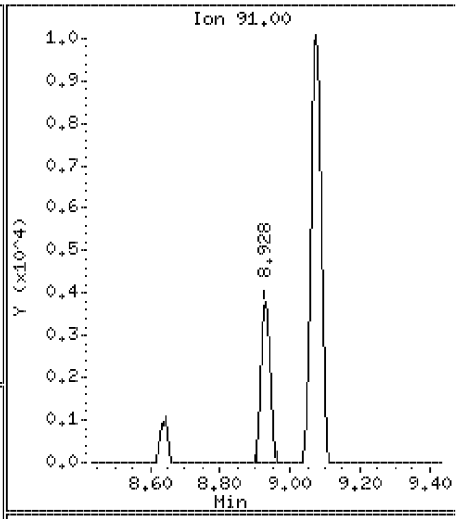
Column phase: J&W DB-5

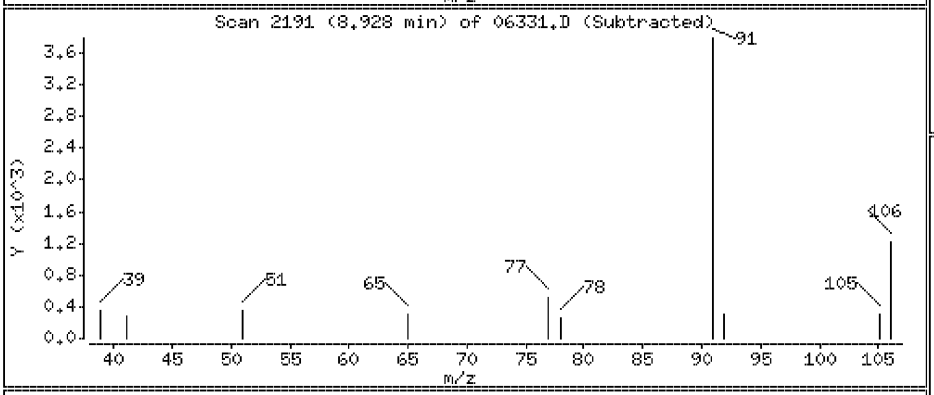
Column diameter: 0.32

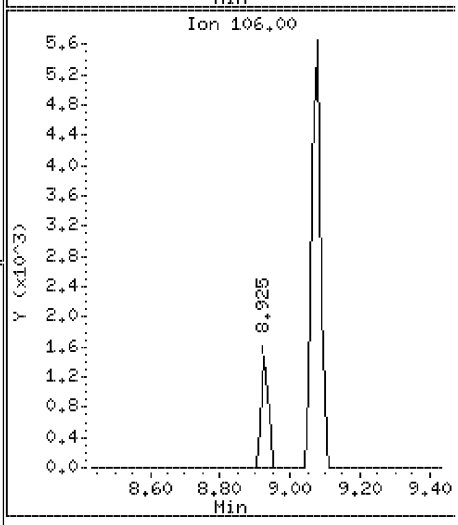
69 Ethyl Benzene

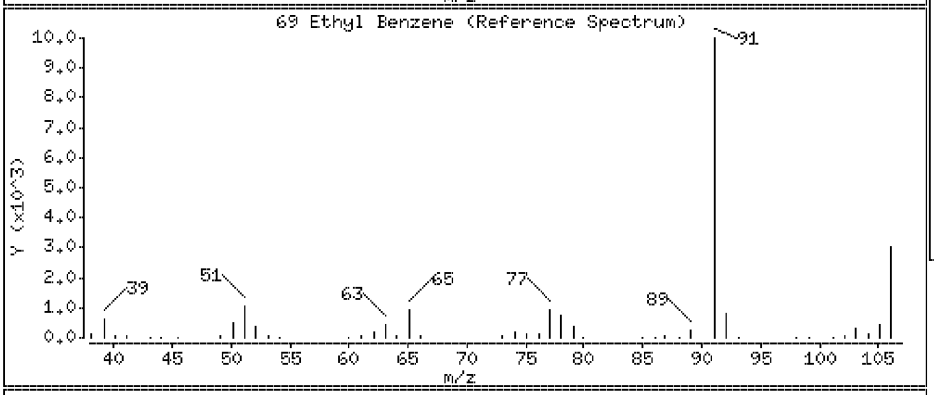
Concentration: 0.205 ppbv

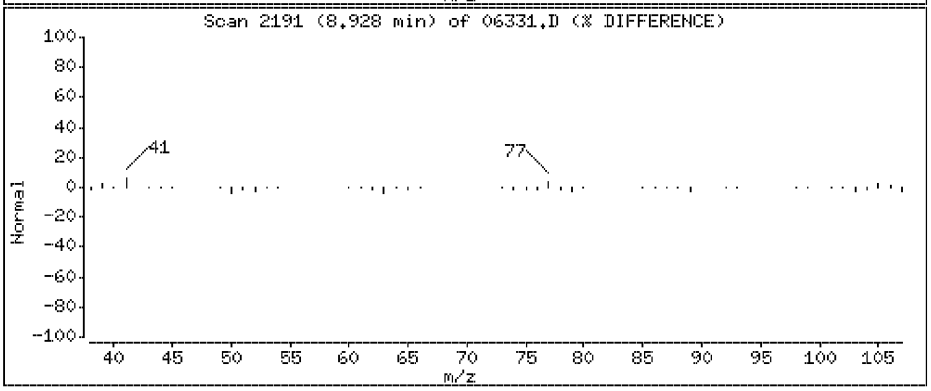












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

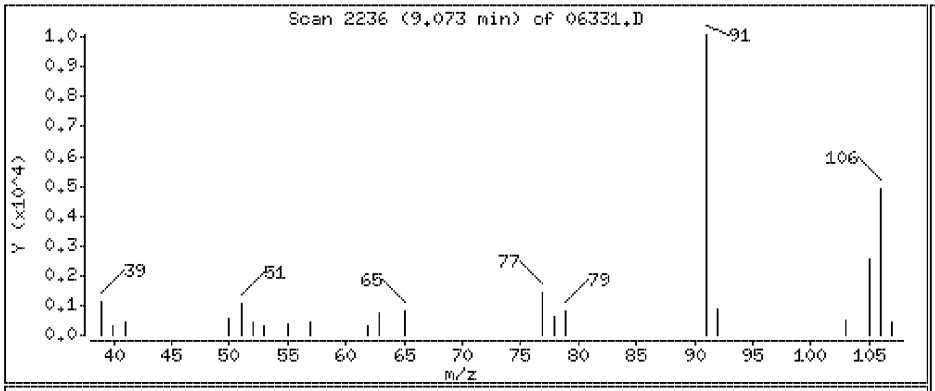
Operator: MJL

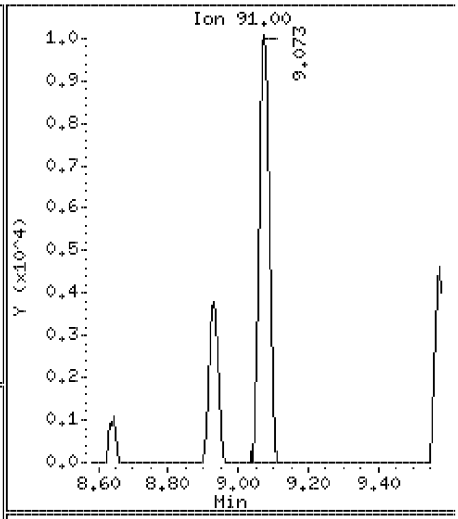
Column phase: J&W DB-5

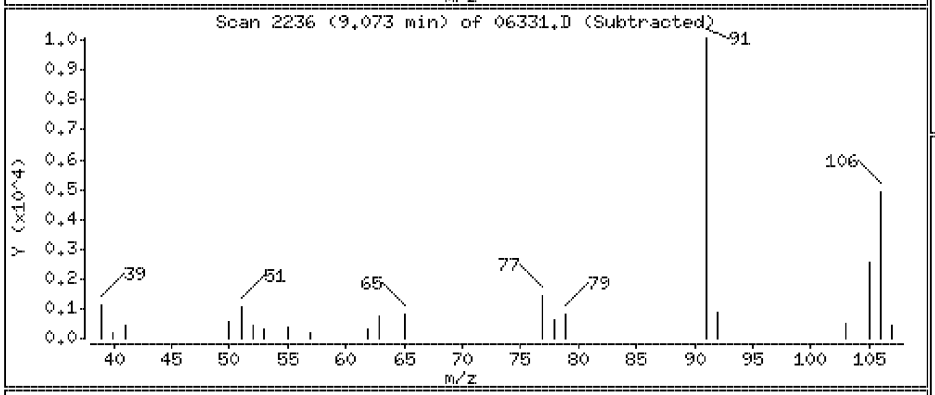
Column diameter: 0.32

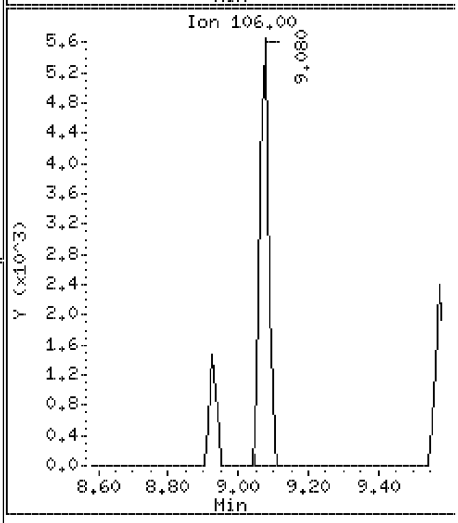
70 m&p-Xylene

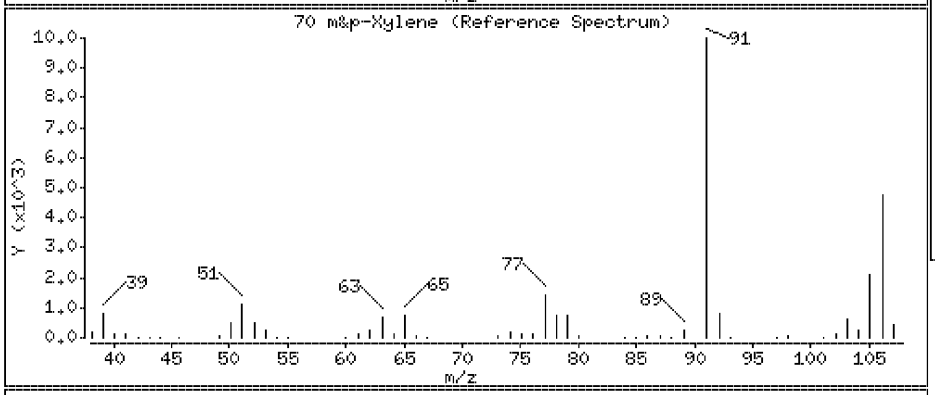
Concentration: 0.787 ppbv

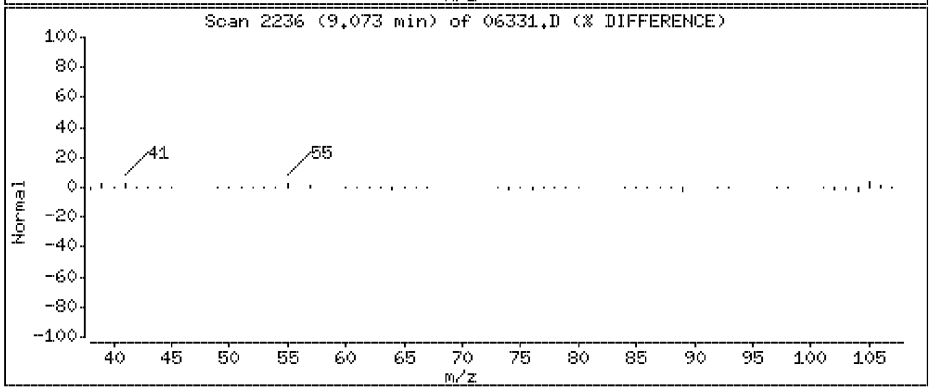












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

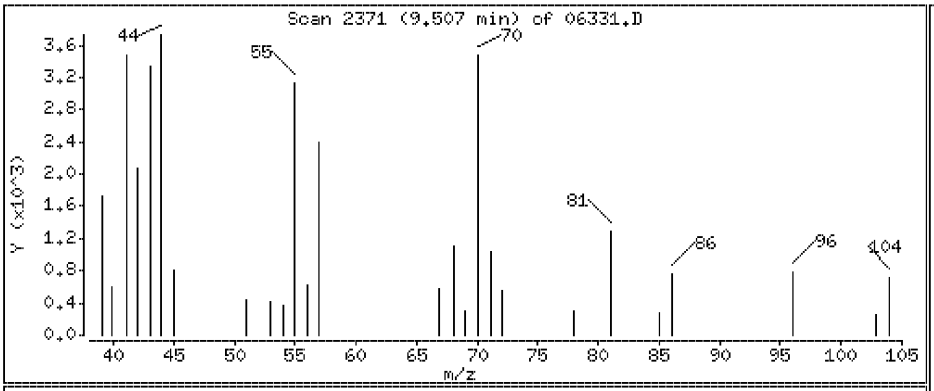
Operator: MJL

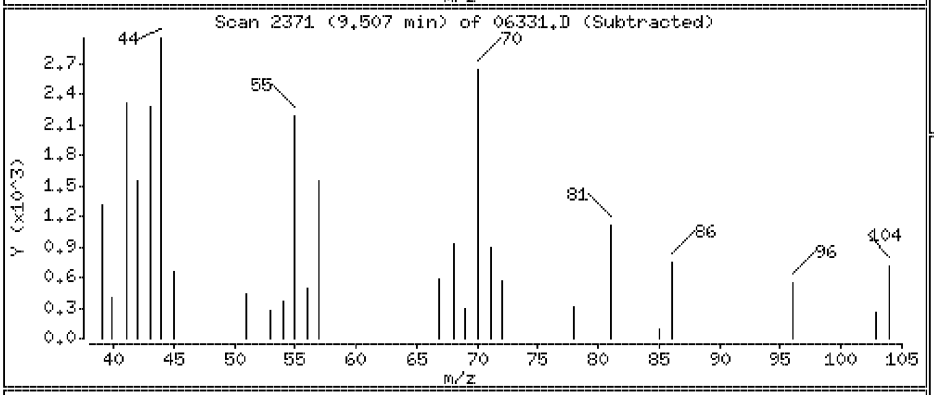
Column phase: J&W DB-5

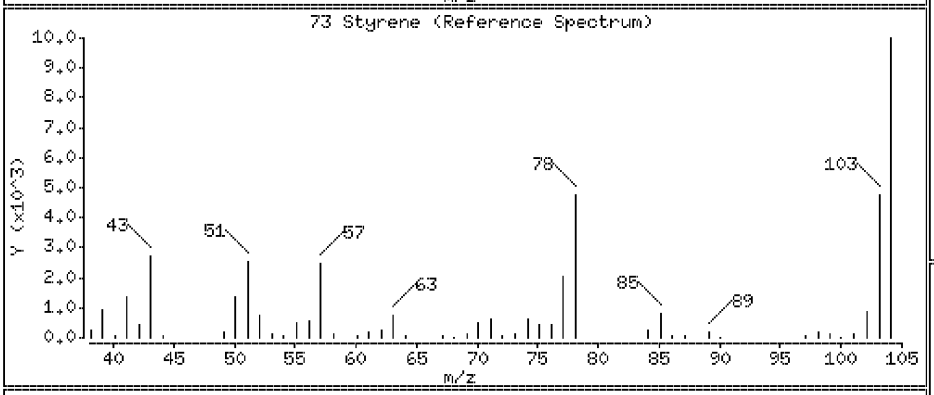
Column diameter: 0.32

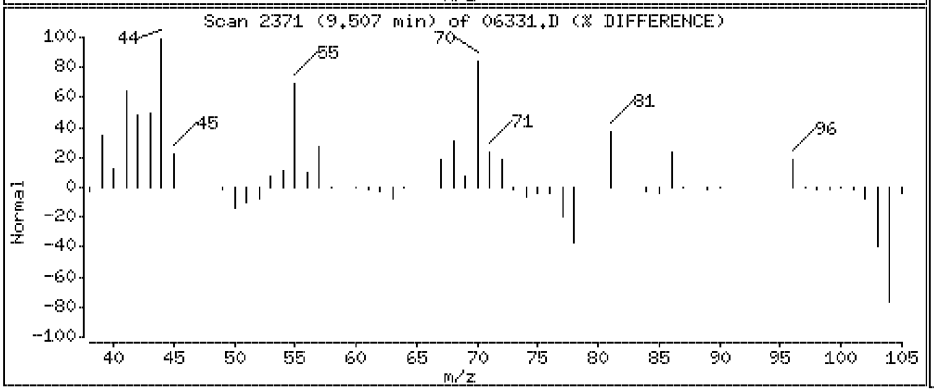
73 Styrene

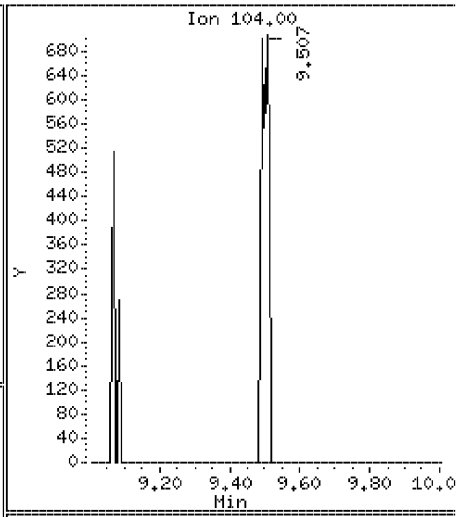
Concentration: 0.192 ppbv

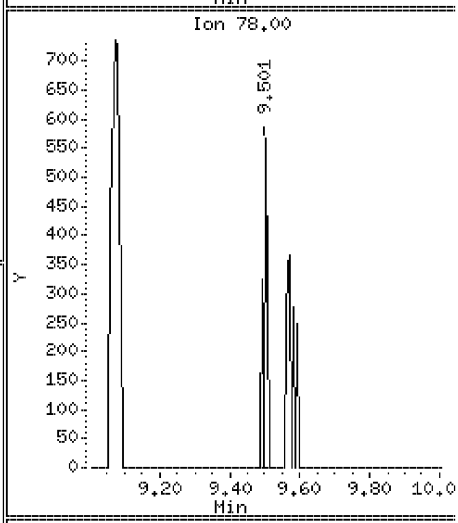


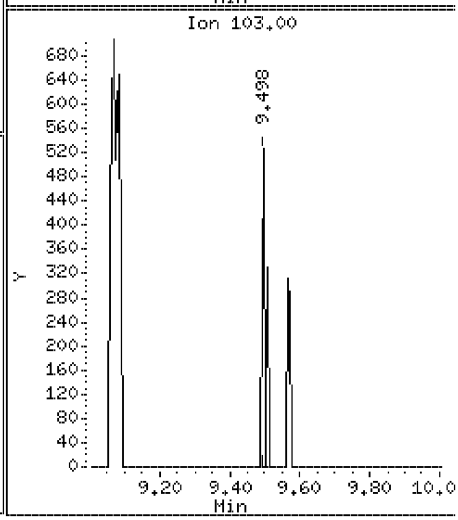












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

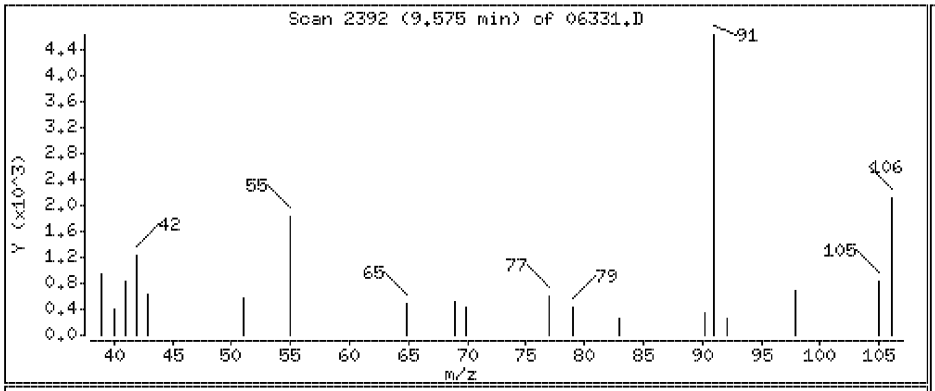
Operator: MJL

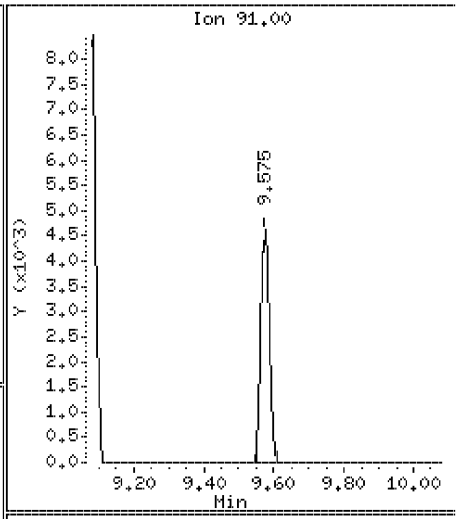
Column phase: J&W DB-5

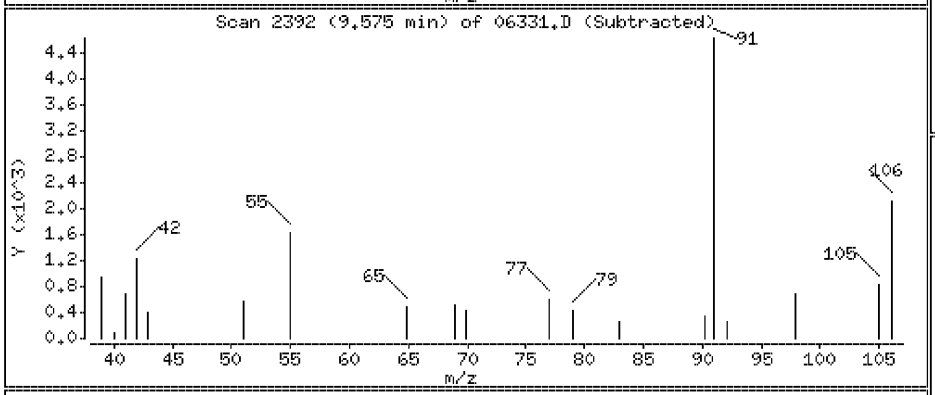
Column diameter: 0.32

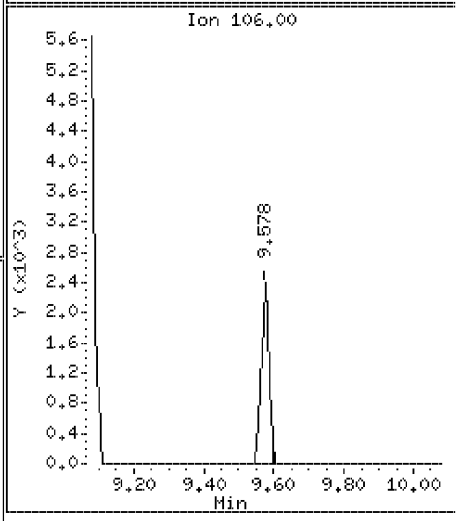
74 o-Xylene

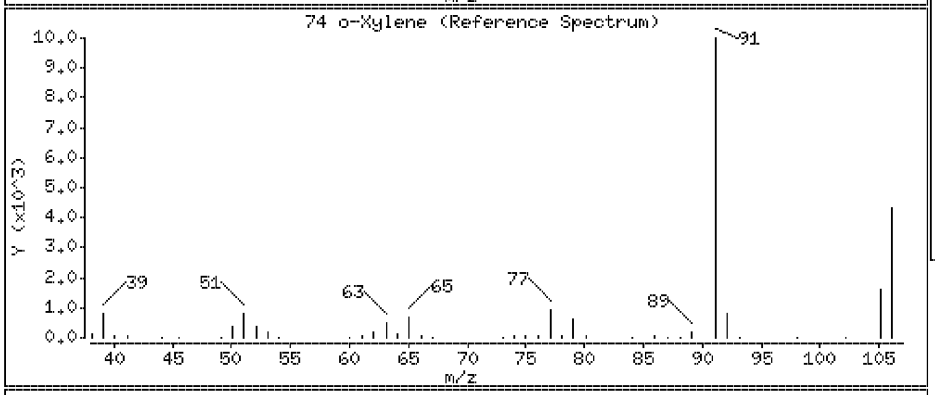
Concentration: 0.305 ppbv

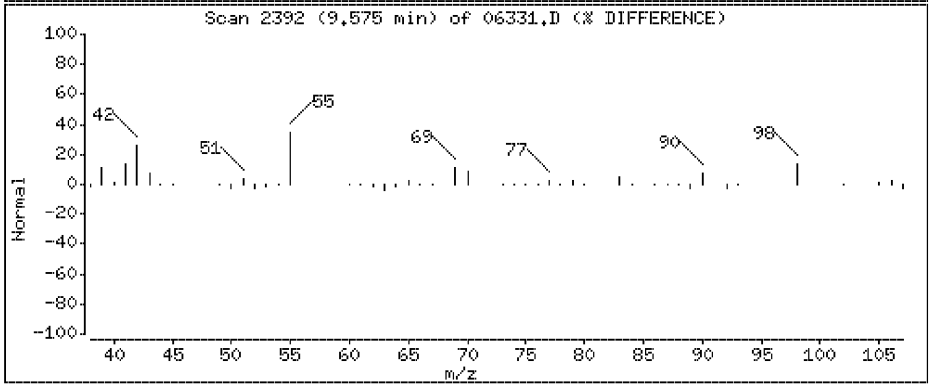












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

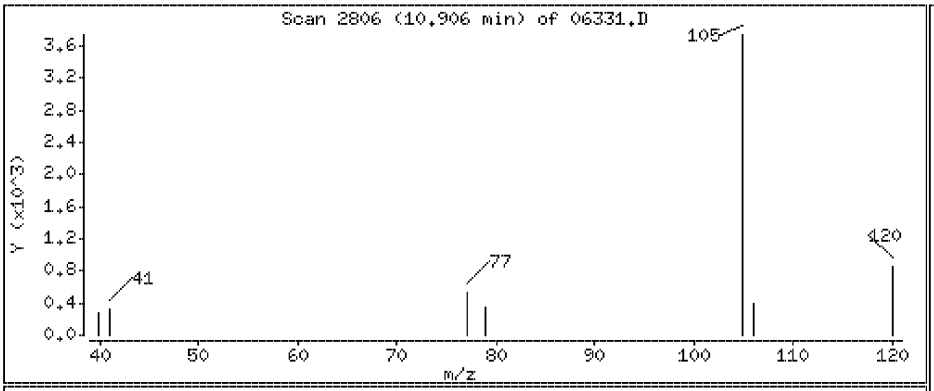
Operator: MJL

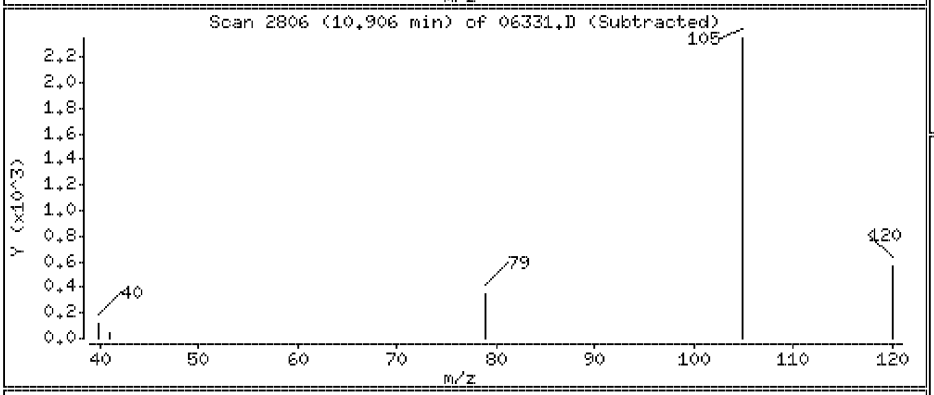
Column phase: J&W DB-5

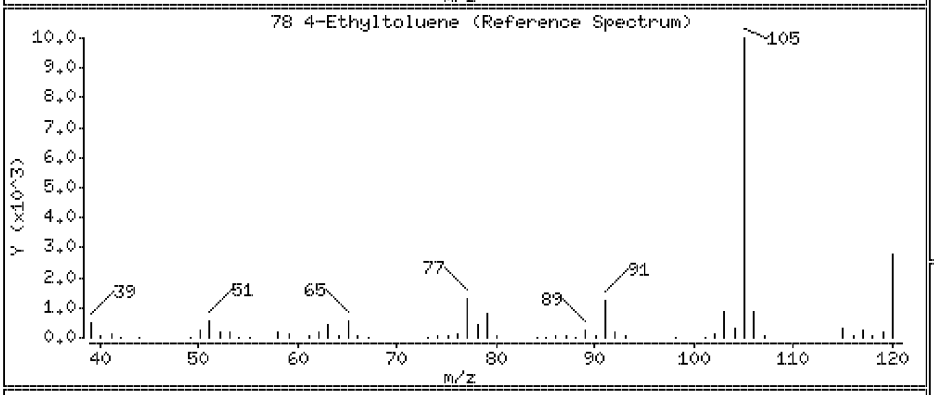
Column diameter: 0.32

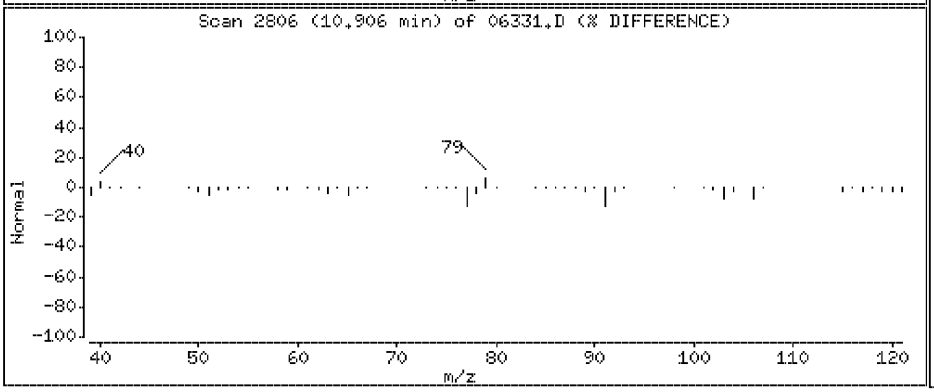
78 4-Ethyltoluene

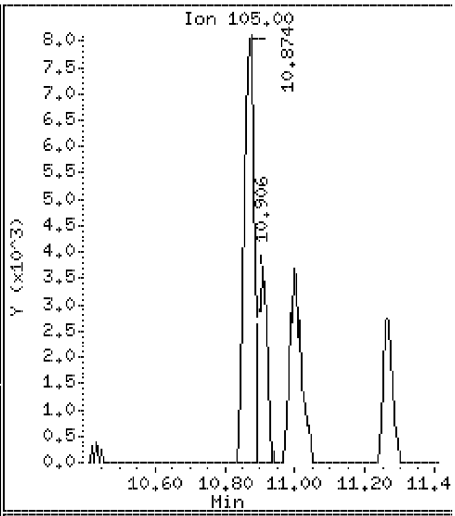
Concentration: 0.349 ppbv

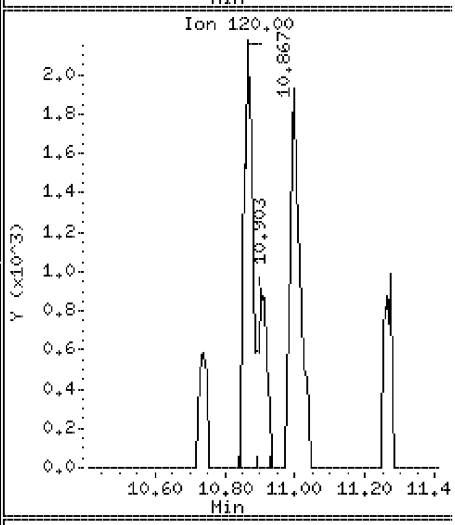


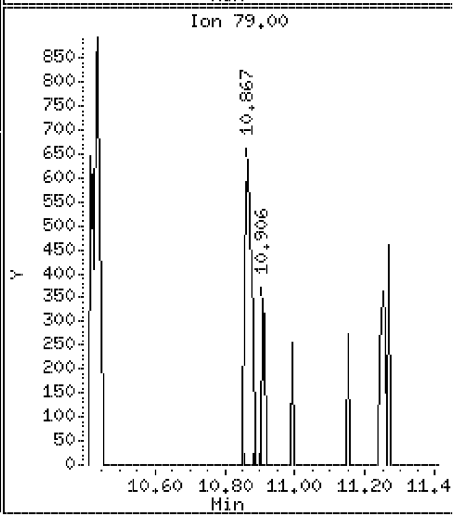












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

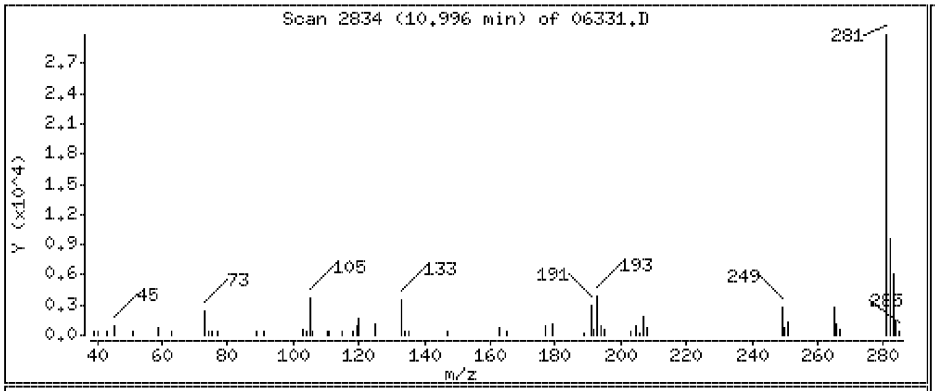
Operator: MJL

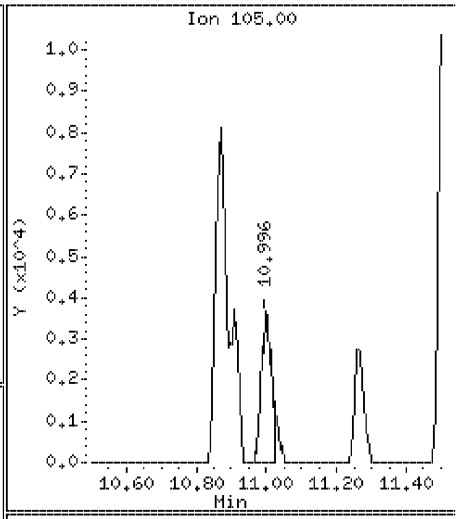
Column phase: J&W DB-5

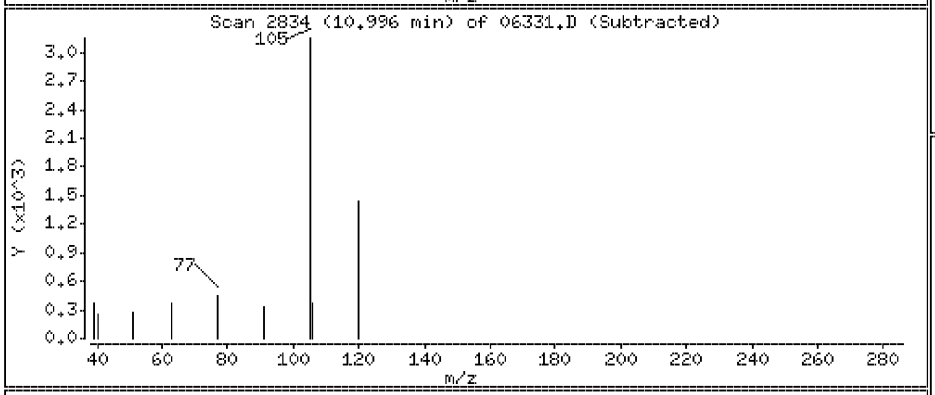
Column diameter: 0.32

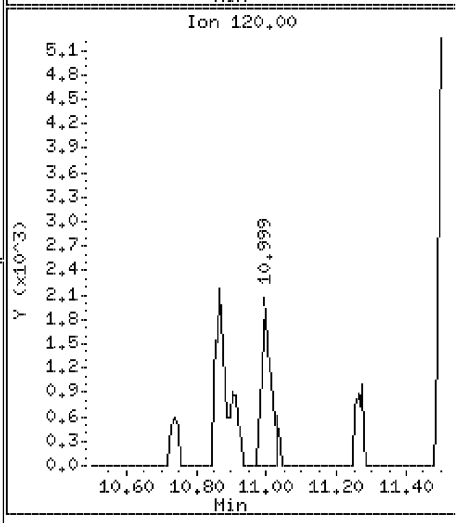
79 1,3,5-Trimethylbenzene

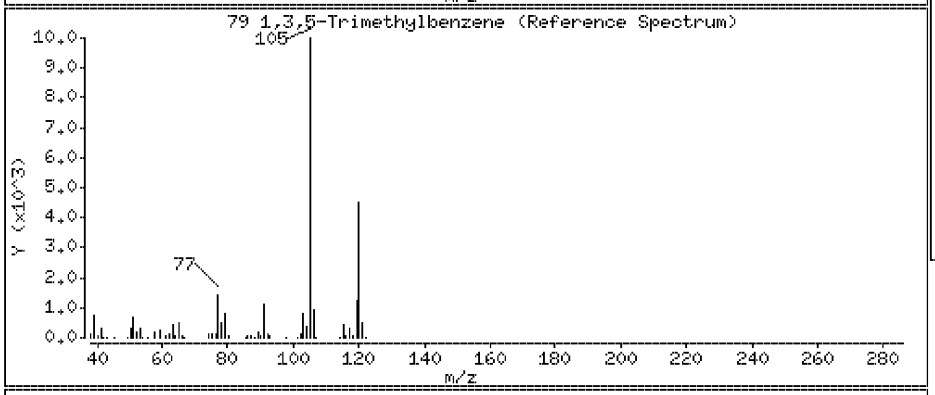
Concentration: 0.269 ppbv

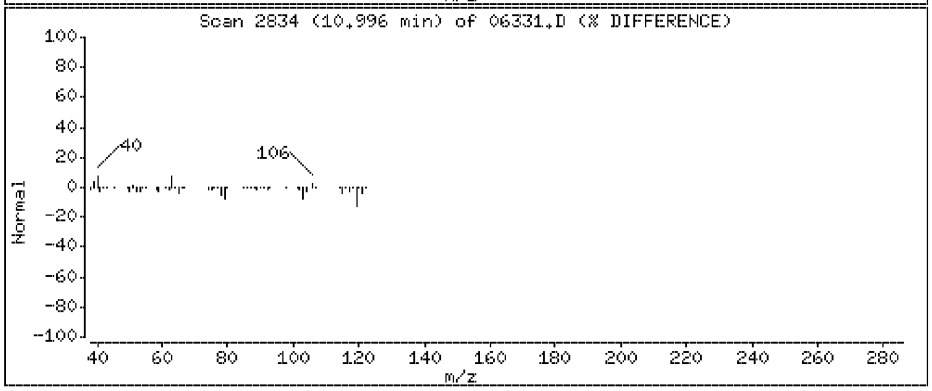












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

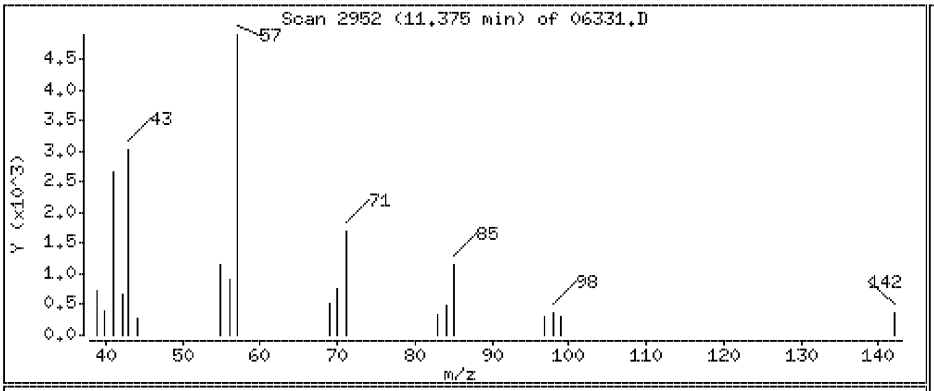
Operator: MJL

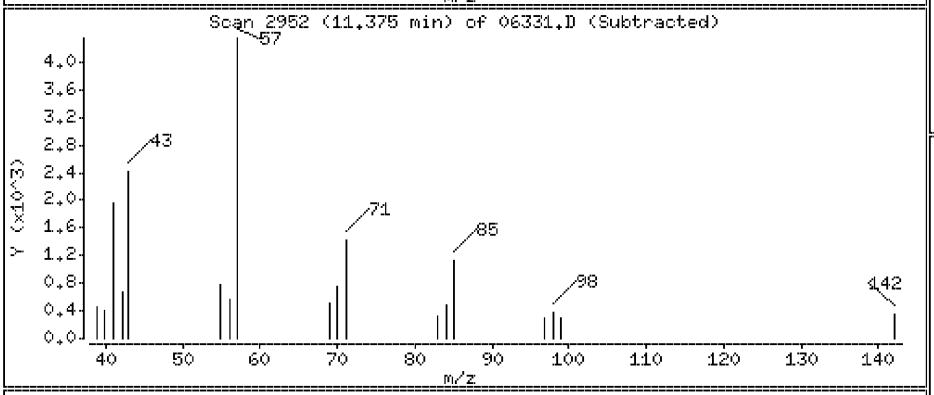
Column phase: J&W DB-5

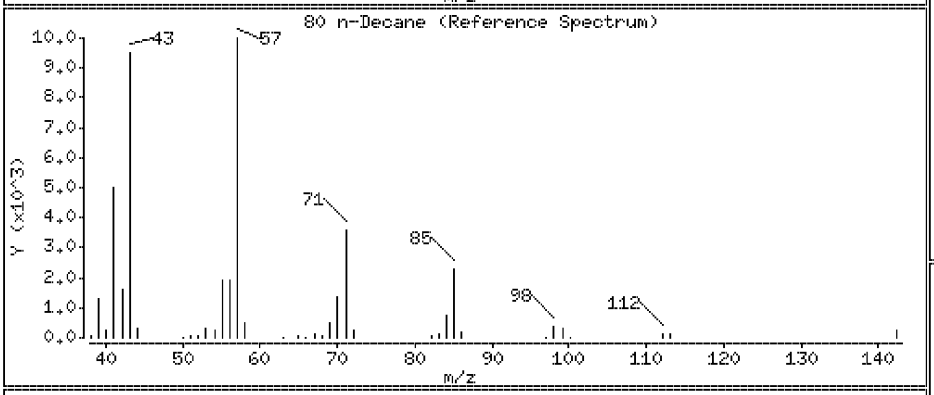
Column diameter: 0.32

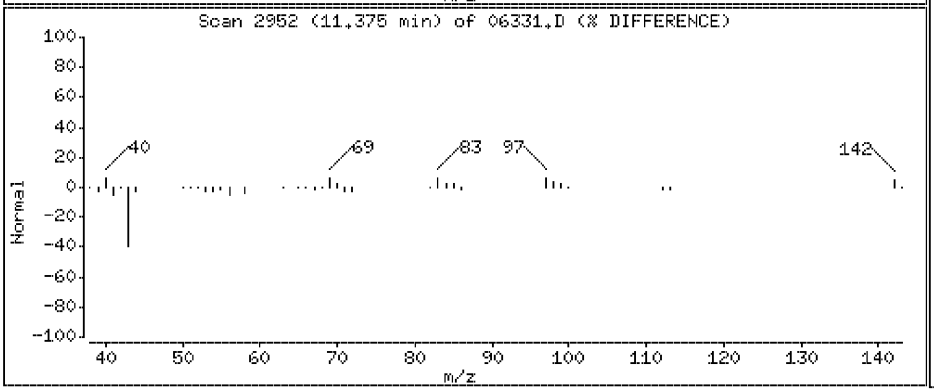
80 n-Decane

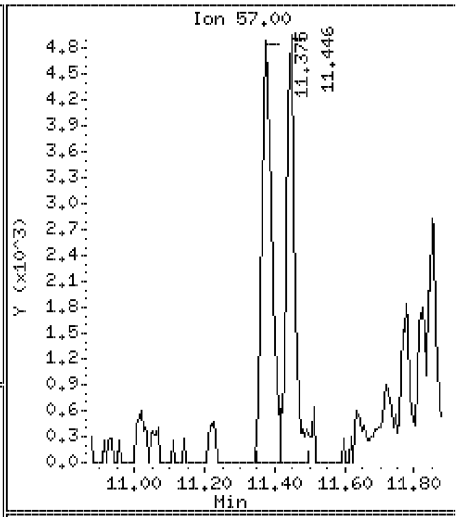
Concentration: 1.04 ppbv

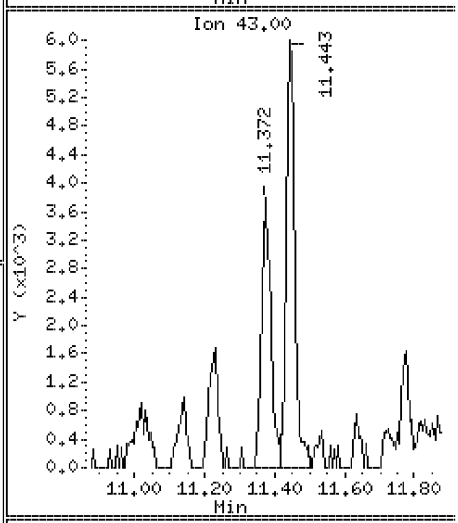


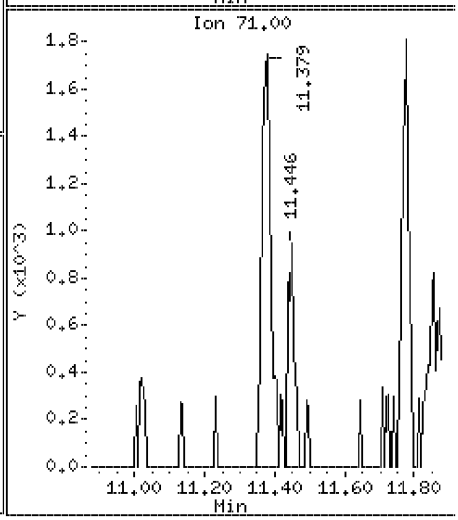












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

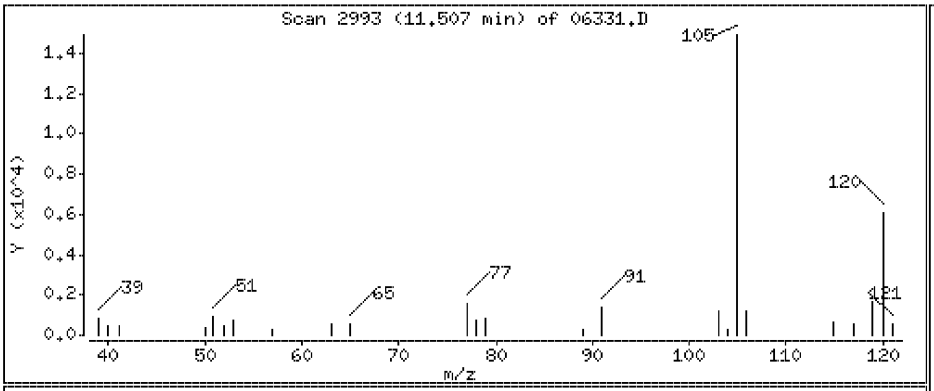
Operator: MJL

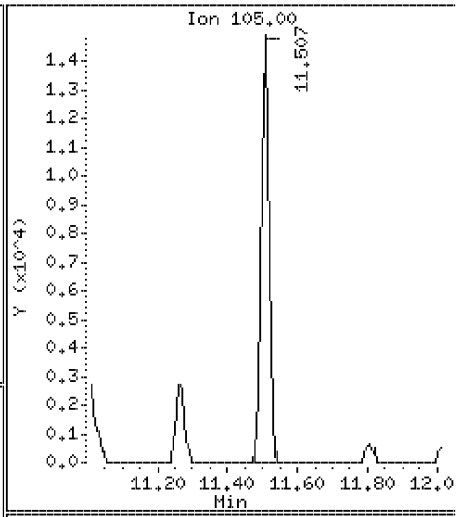
Column phase: J&W DB-5

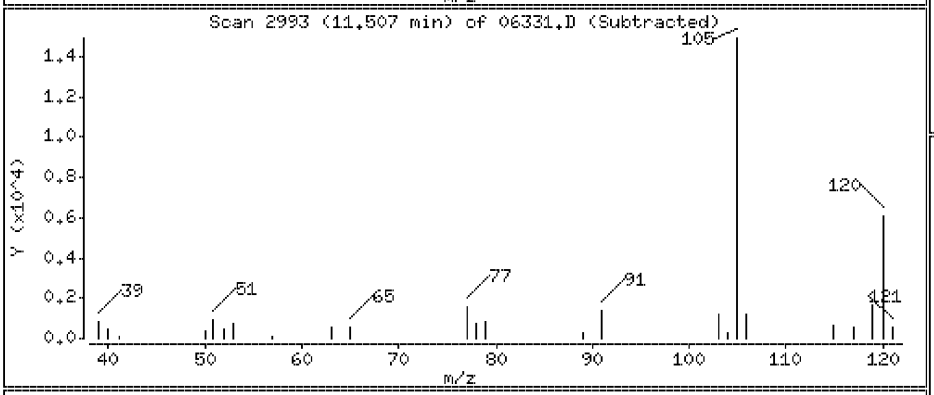
Column diameter: 0.32

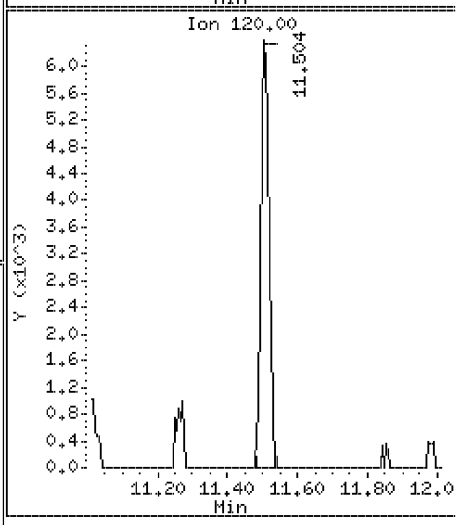
82 1,2,4-Trimethylbenzene

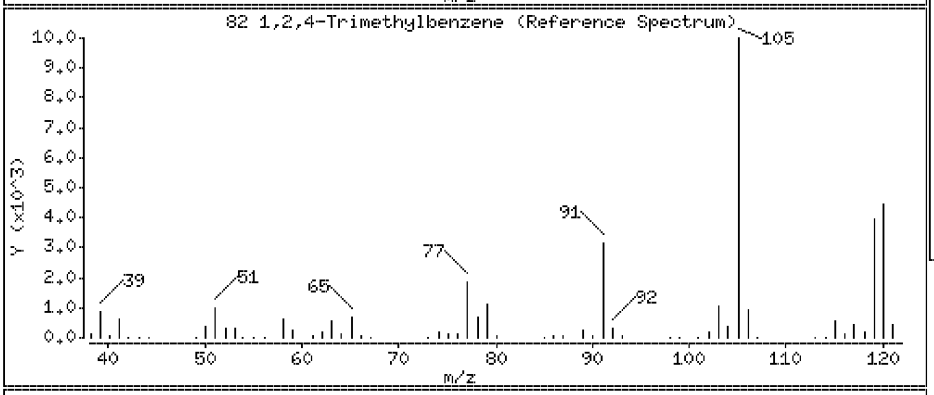
Concentration: 0.871 ppbv

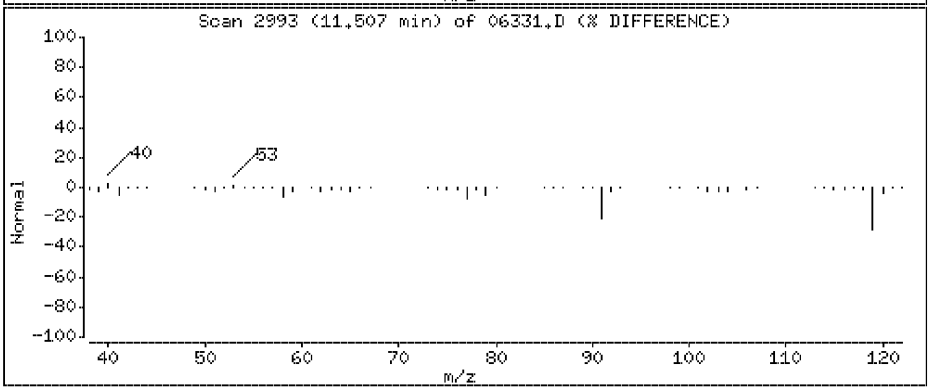












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

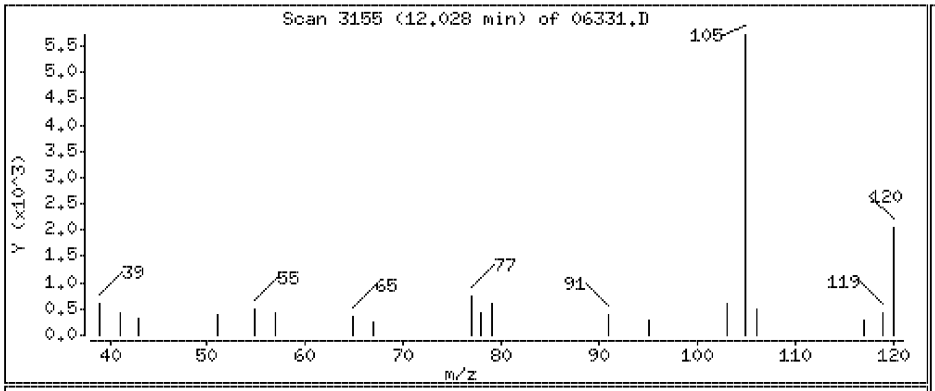
Operator: MJL

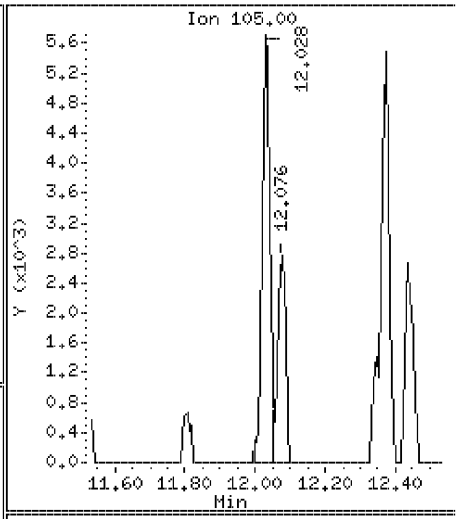
Column phase: J&W DB-5

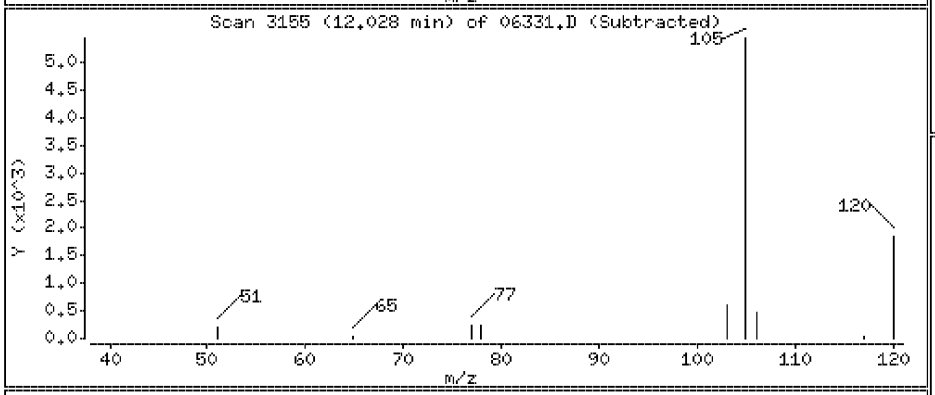
Column diameter: 0.32

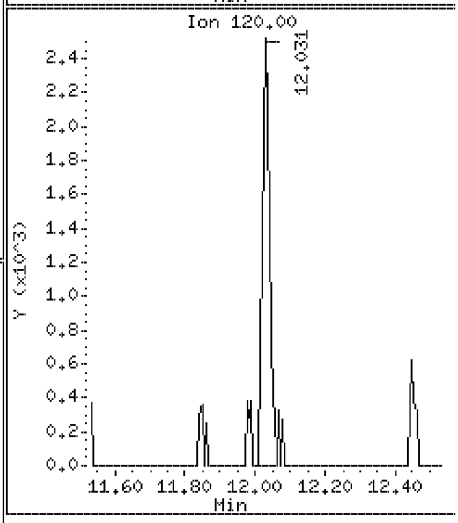
89 1,2,3-Trimethylbenzene

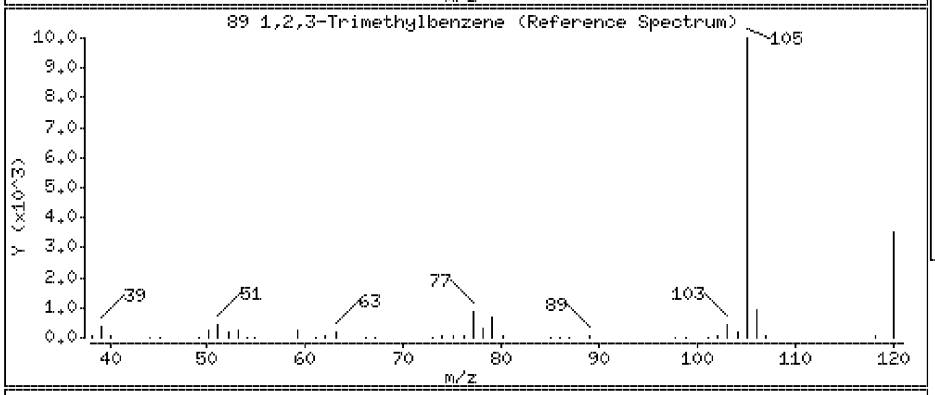
Concentration: 0.328 ppbv

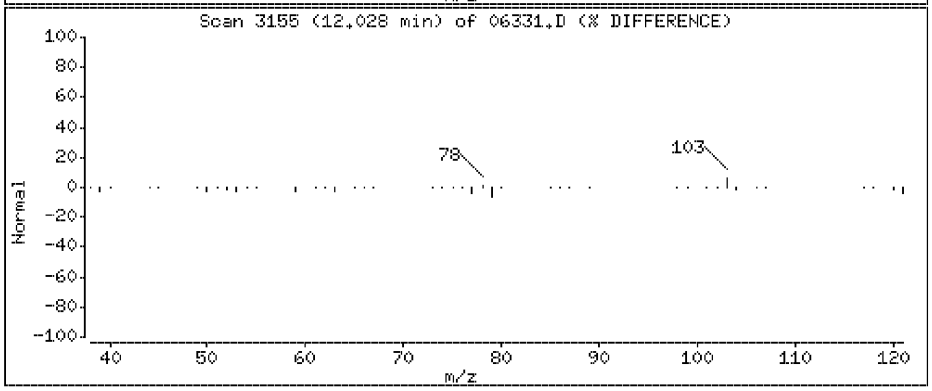












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06331.D

Date : 04-MAR-2017 22:16

Client ID:

Instrument: 10airB.i

Sample Info:

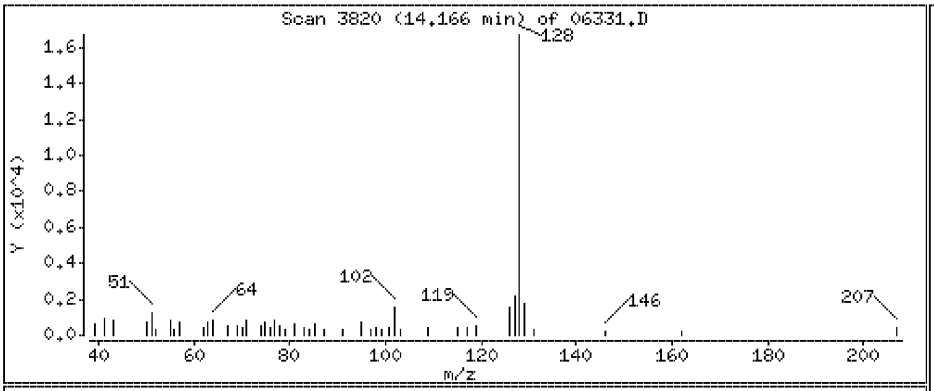
Operator: MJL

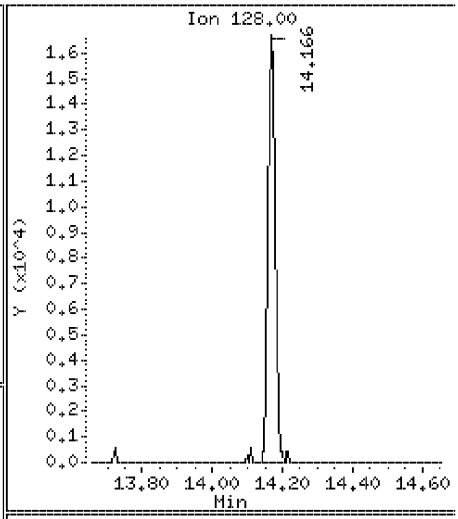
Column phase: J&W DB-5

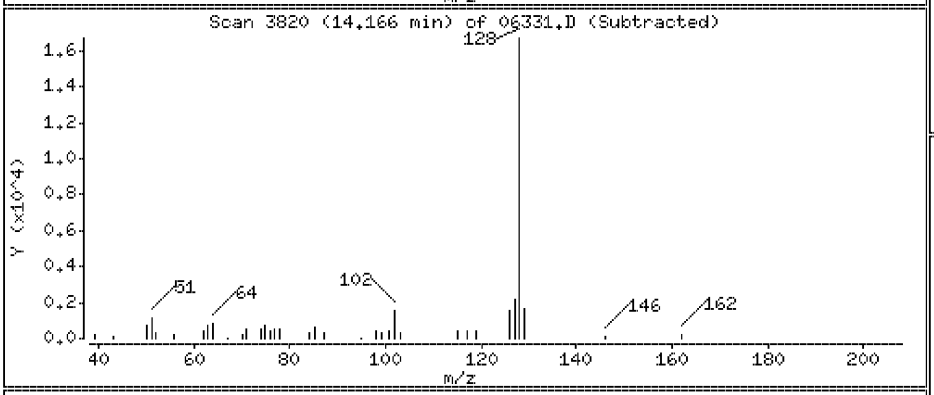
Column diameter: 0.32

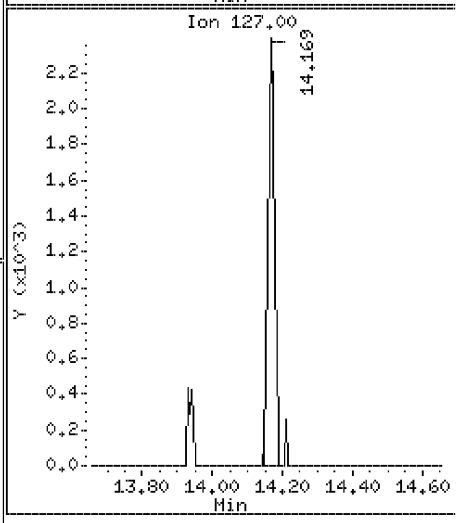
94 Naphthalene

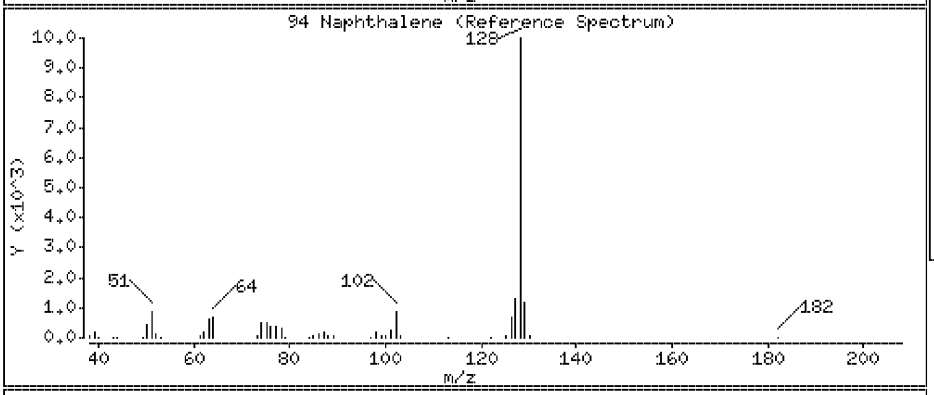
Concentration: 1.96 ppbv

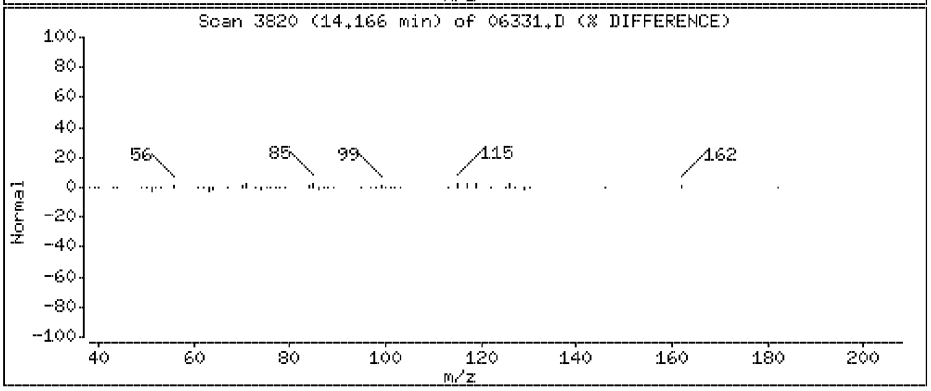






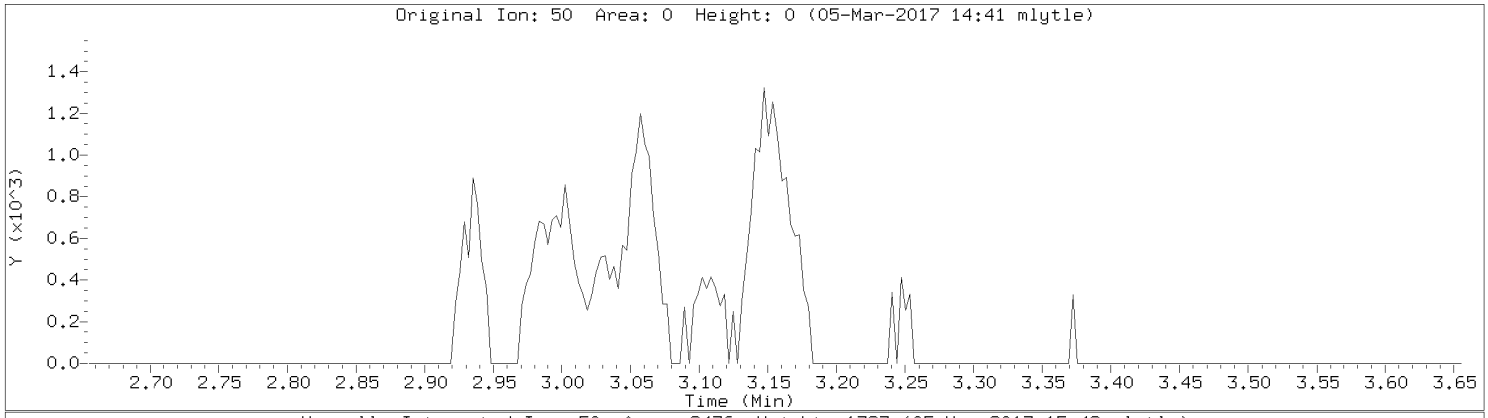


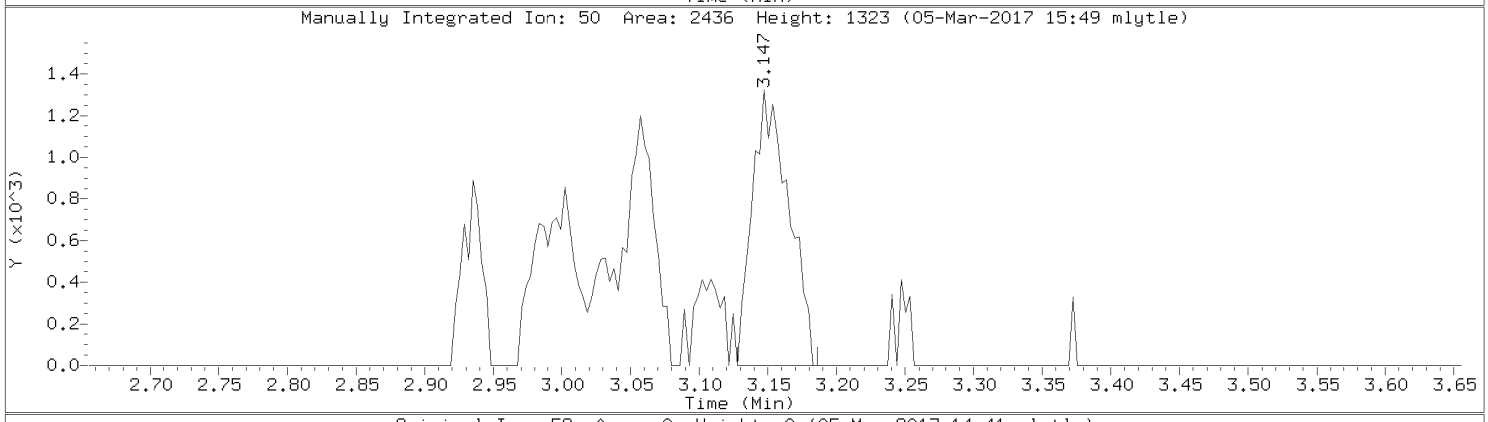


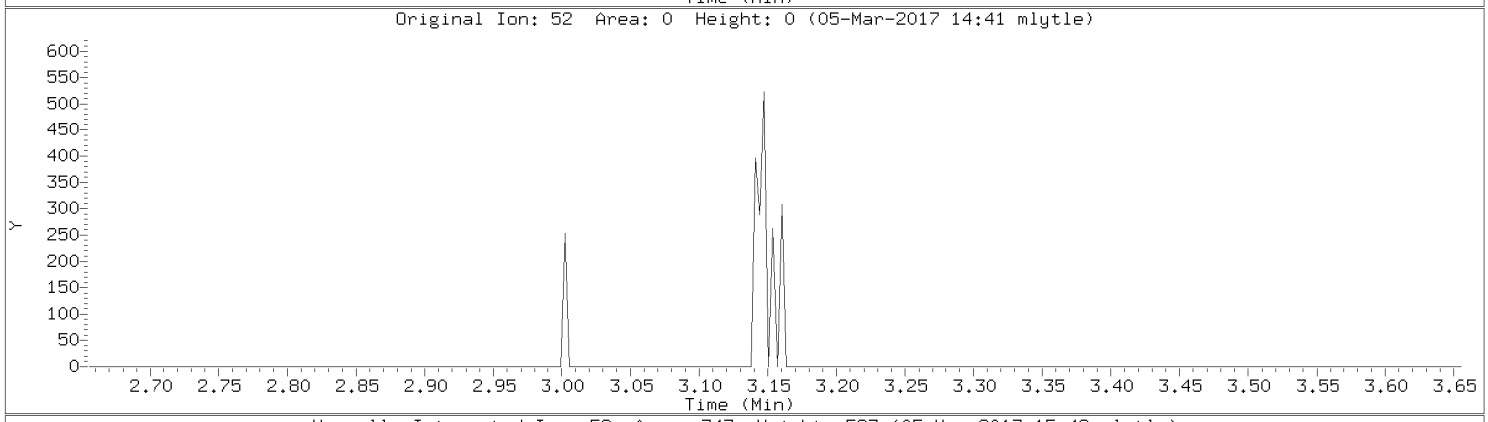


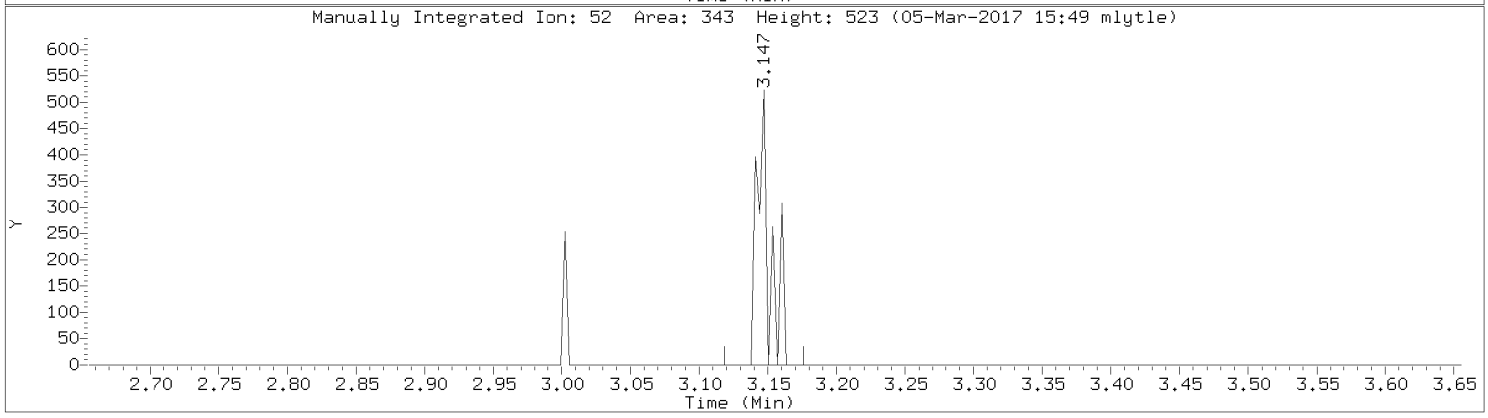
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06331.D
Injection Date: 04-MAR-2017 22:16
Instrument: 10airB.i
Lab Sample ID: 10379458004

Compound: Chloromethane
CAS Number: 74-87-3



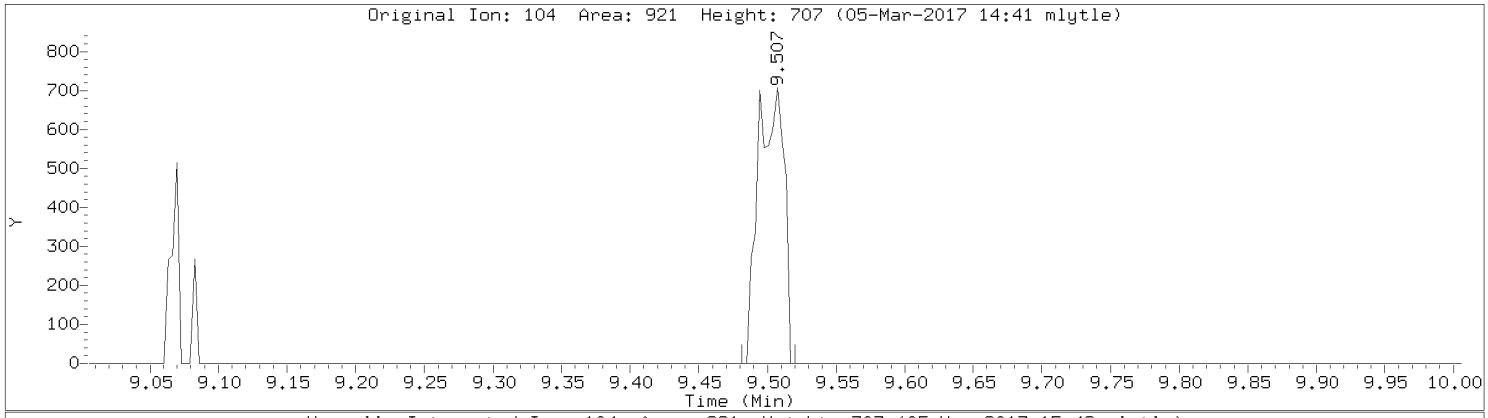


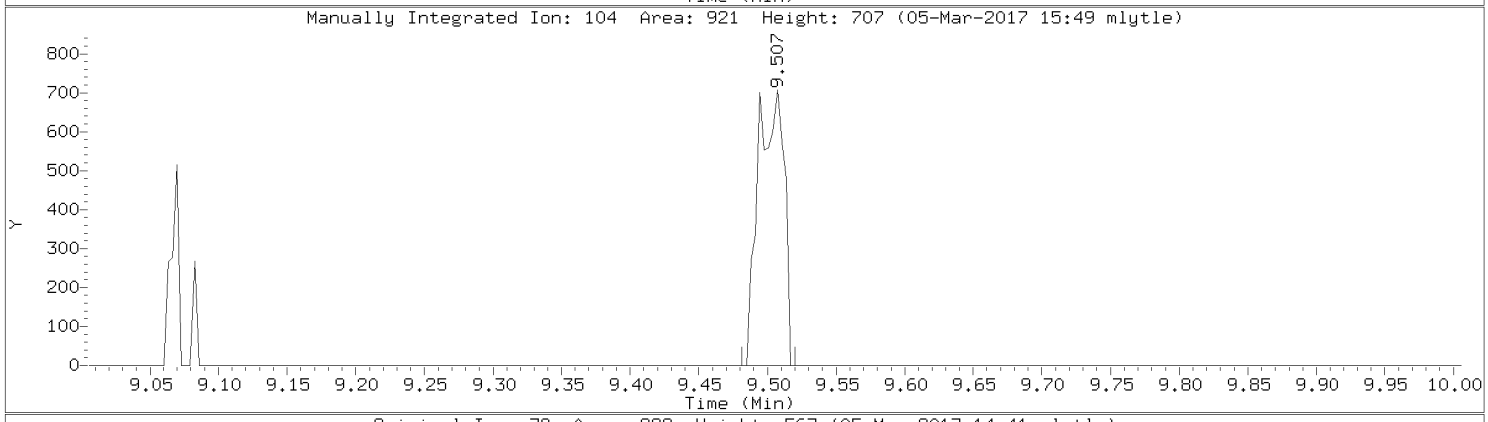


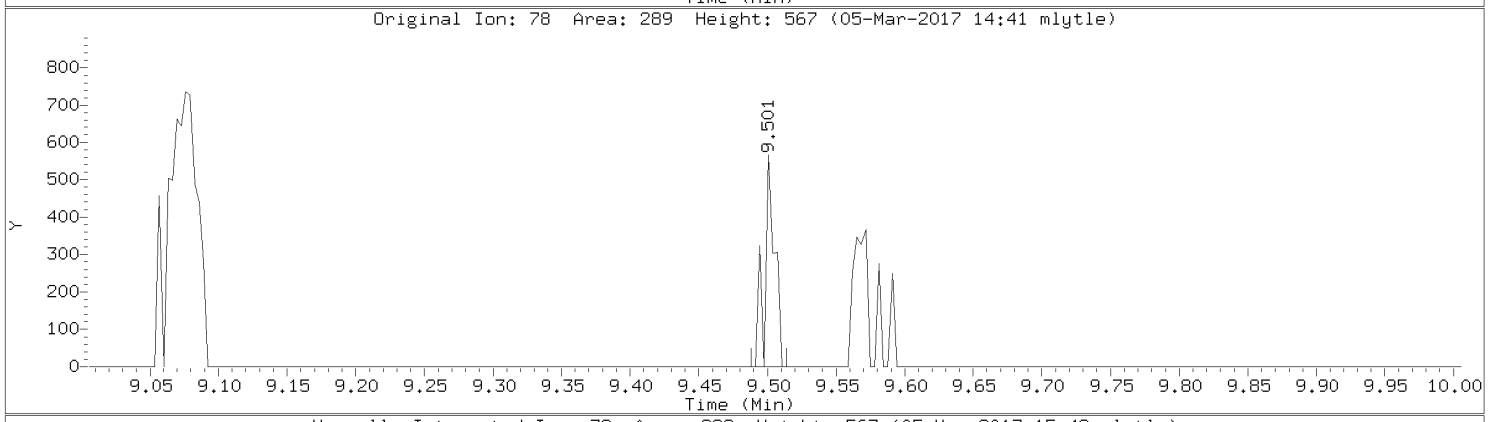


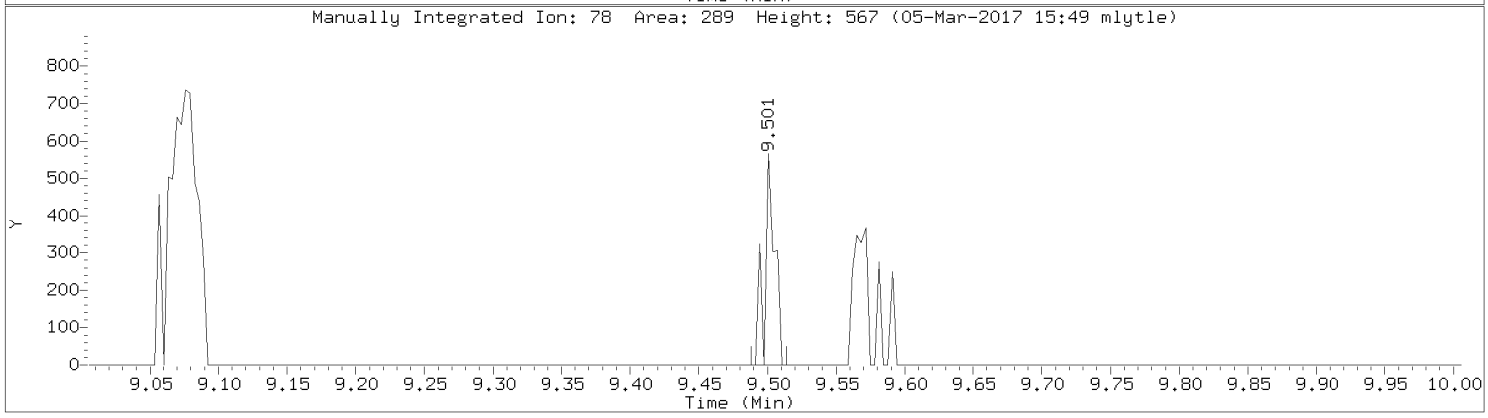
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06331.D
Injection Date: 04-MAR-2017 22:16
Instrument: 10airB.i
Lab Sample ID: 10379458004

Compound: Styrene
CAS Number: 100-42-5

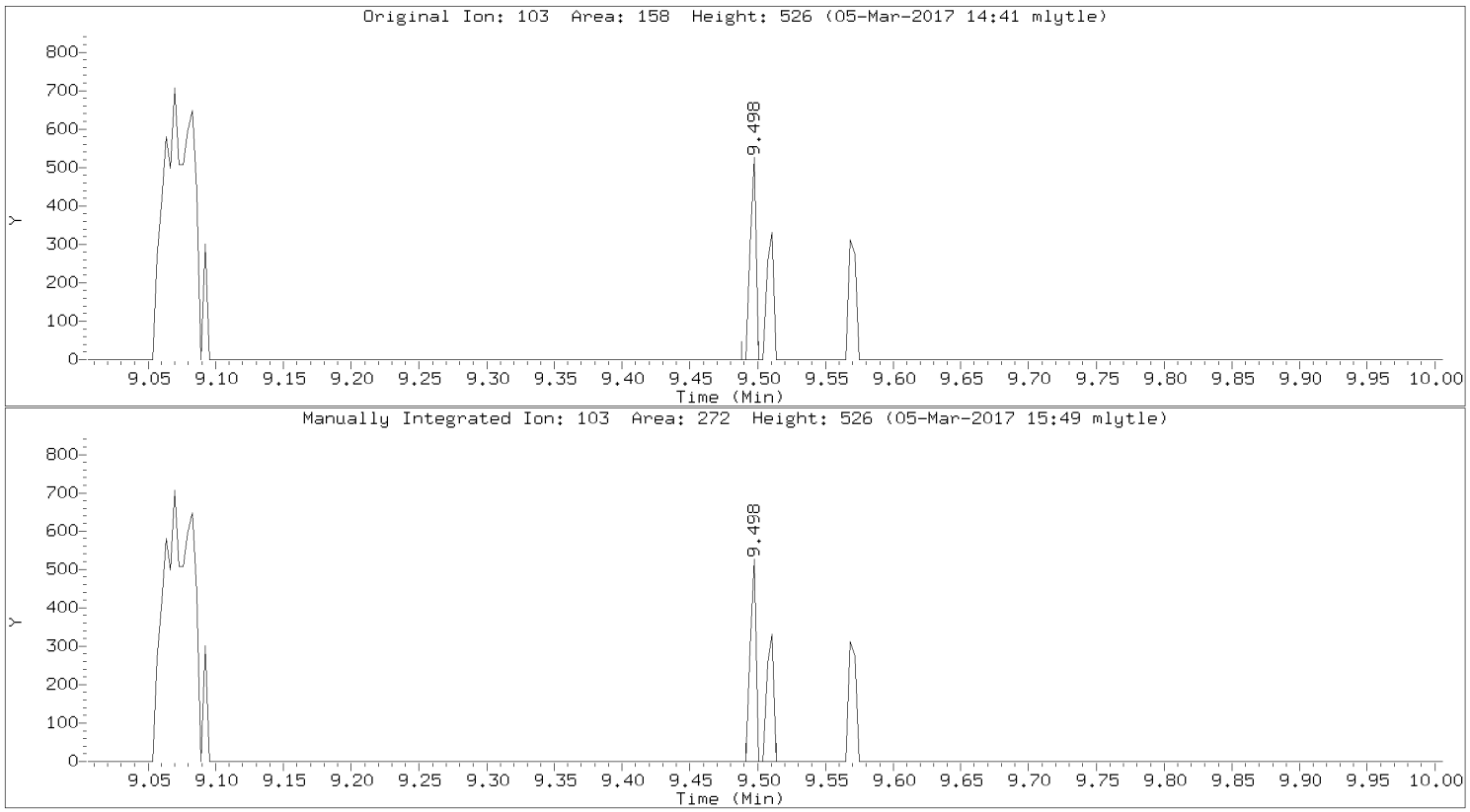






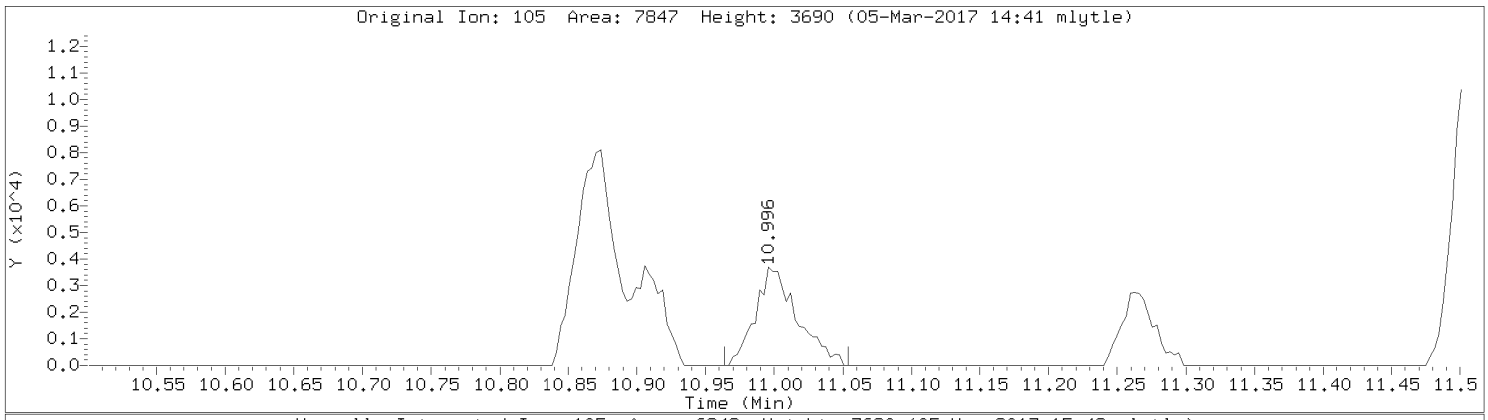


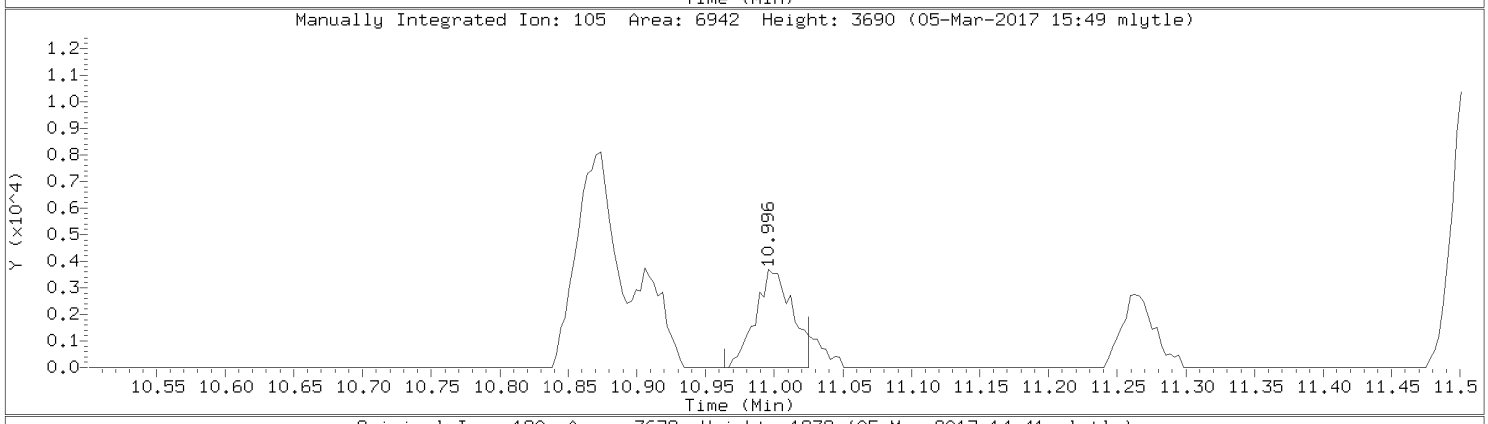
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06331.D
Injection Date: 04-MAR-2017 22:16
Instrument: 10airB.i
Lab Sample ID: 10379458004

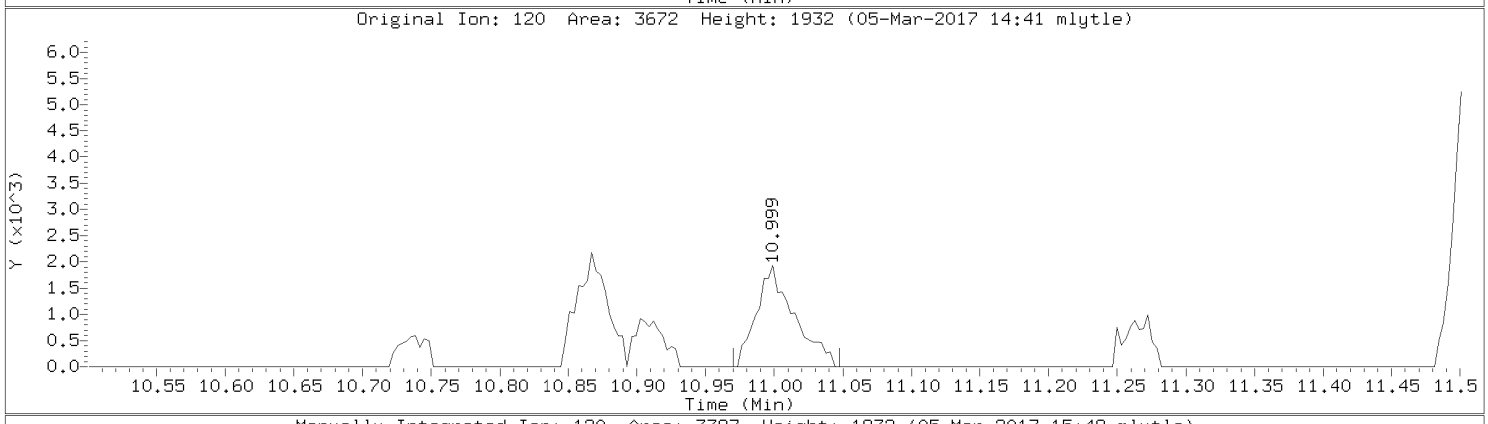


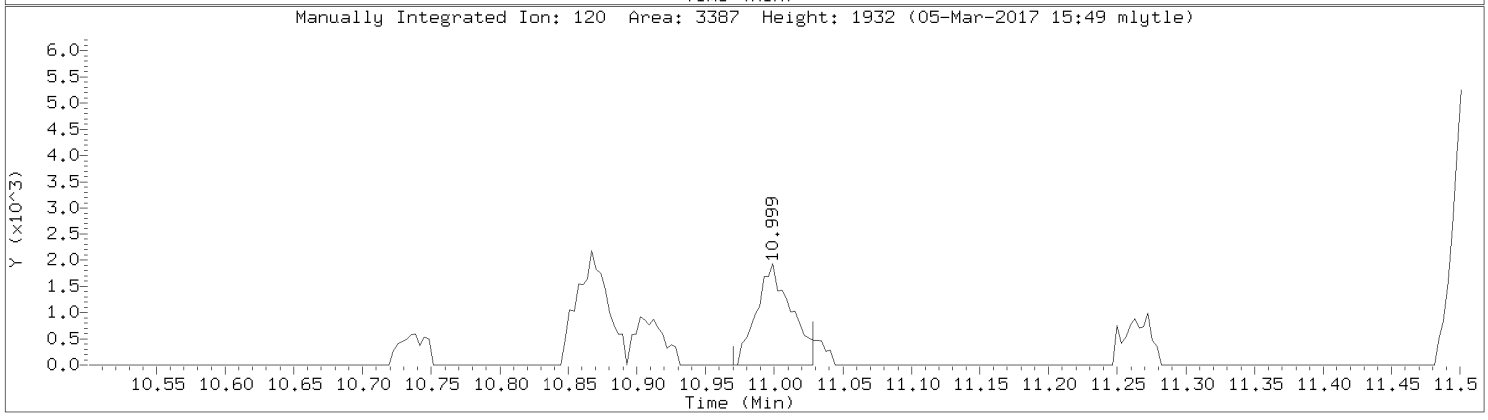
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06331.D
Injection Date: 04-MAR-2017 22:16
Instrument: 10airB.i
Lab Sample ID: 10379458004

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



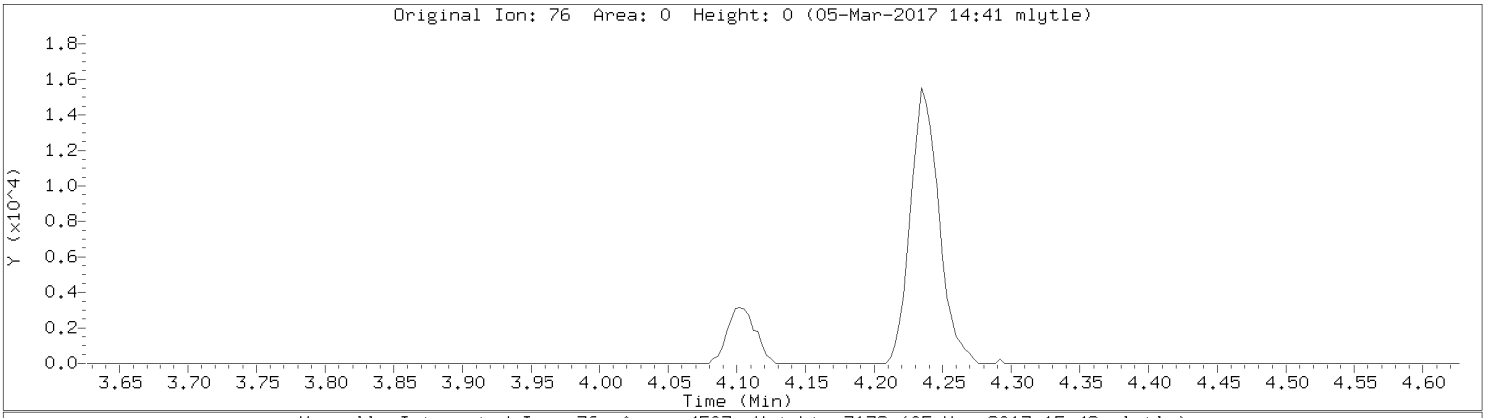


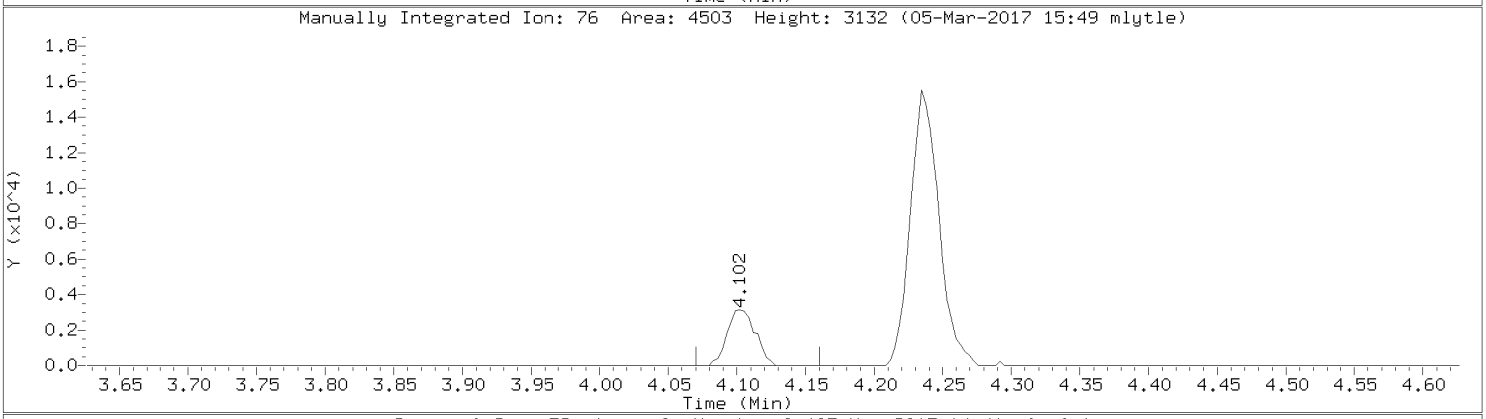


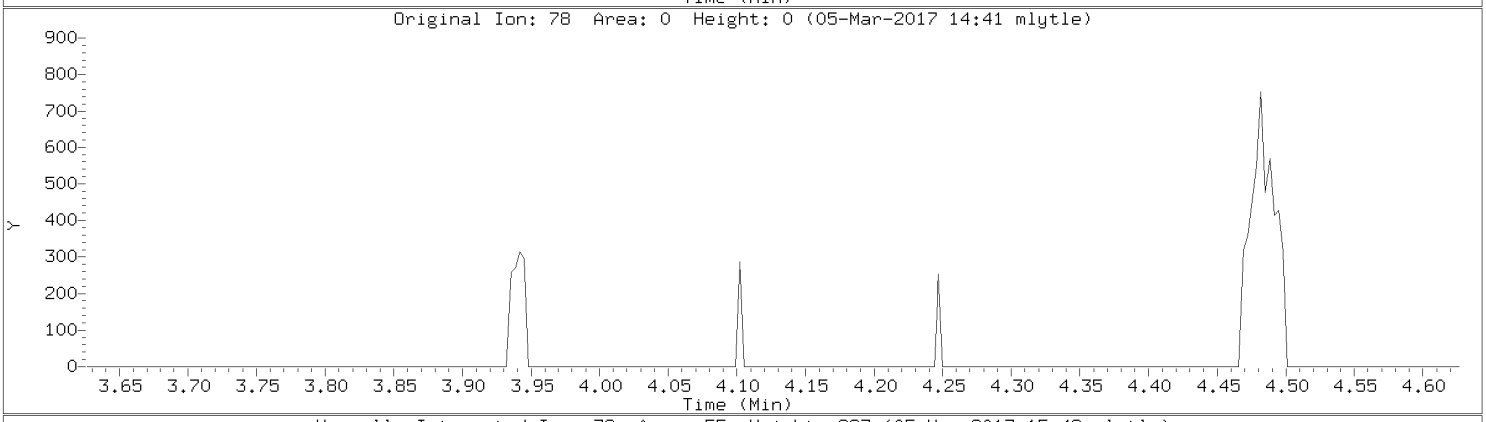


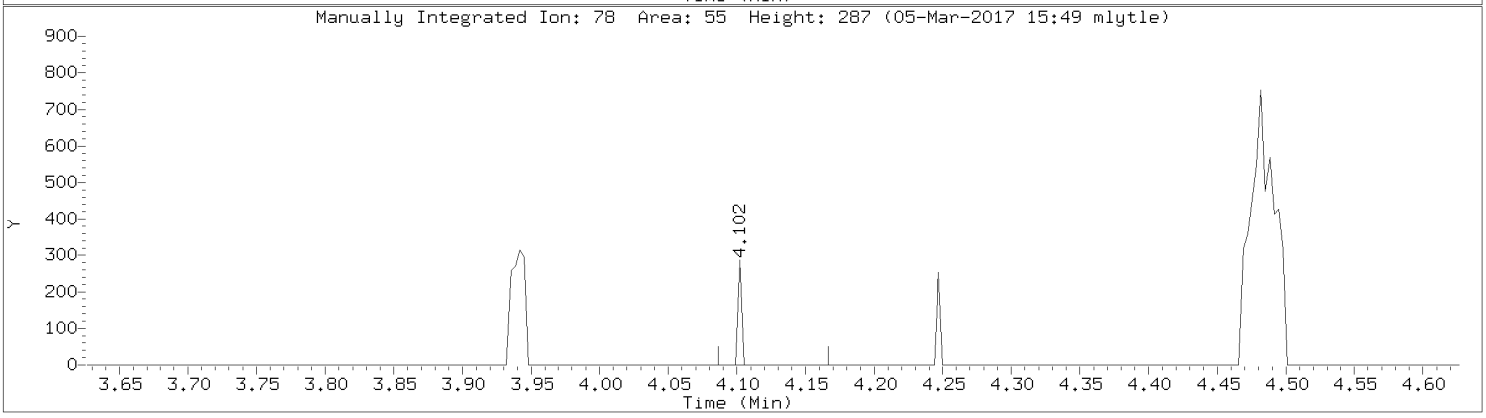
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06331.D
Injection Date: 04-MAR-2017 22:16
Instrument: 10airB.i
Lab Sample ID: 10379458004

Compound: Carbon Disulfide
CAS Number: 75-15-0



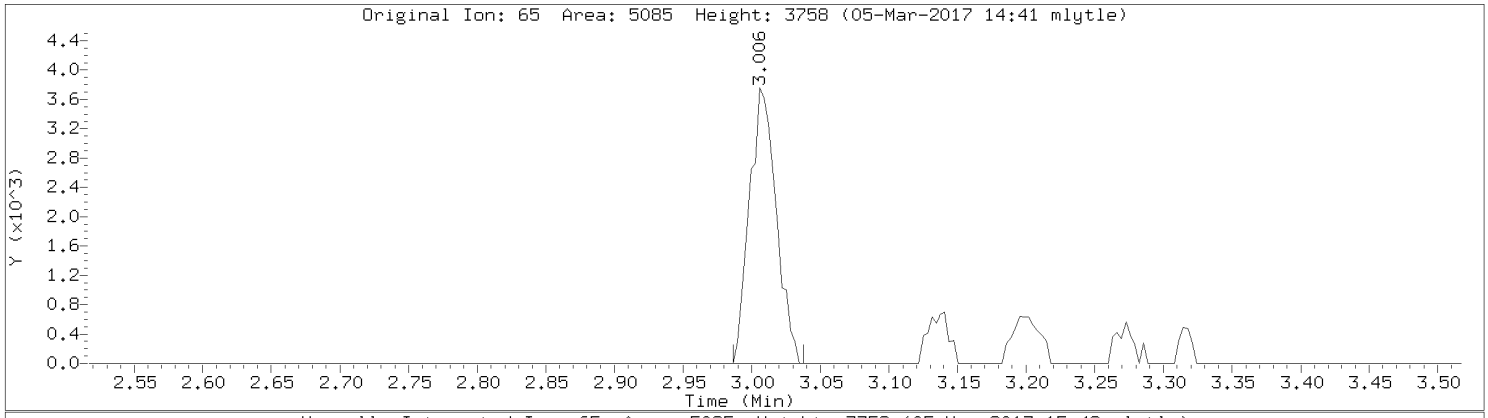


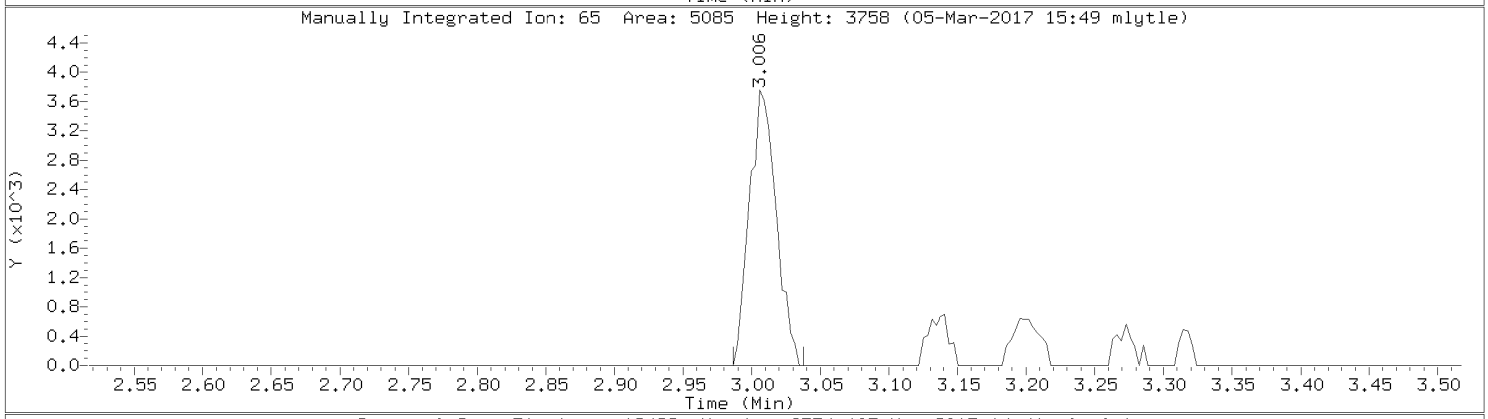


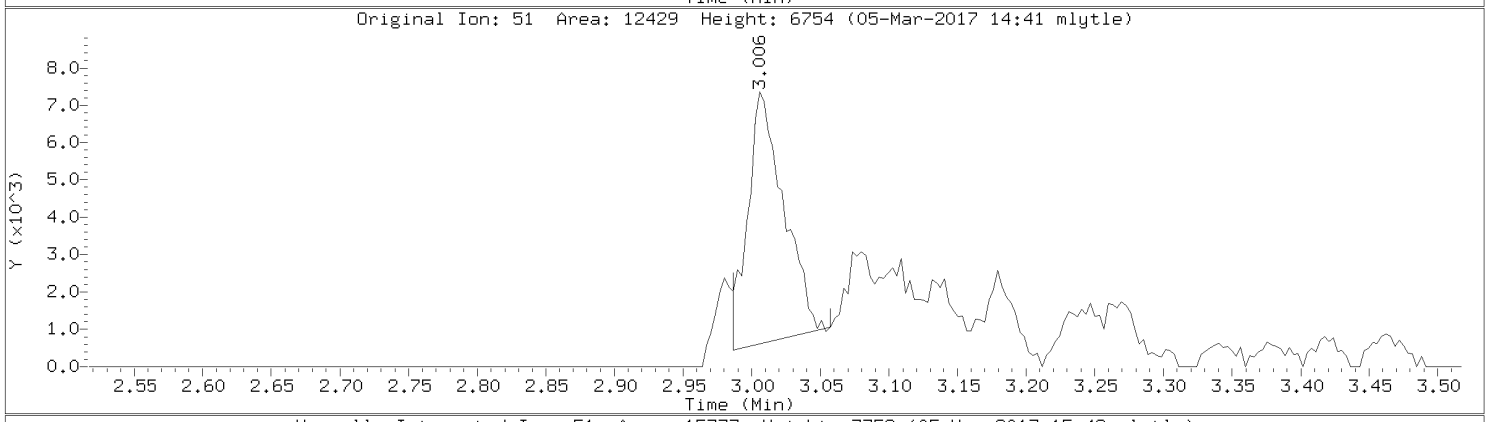


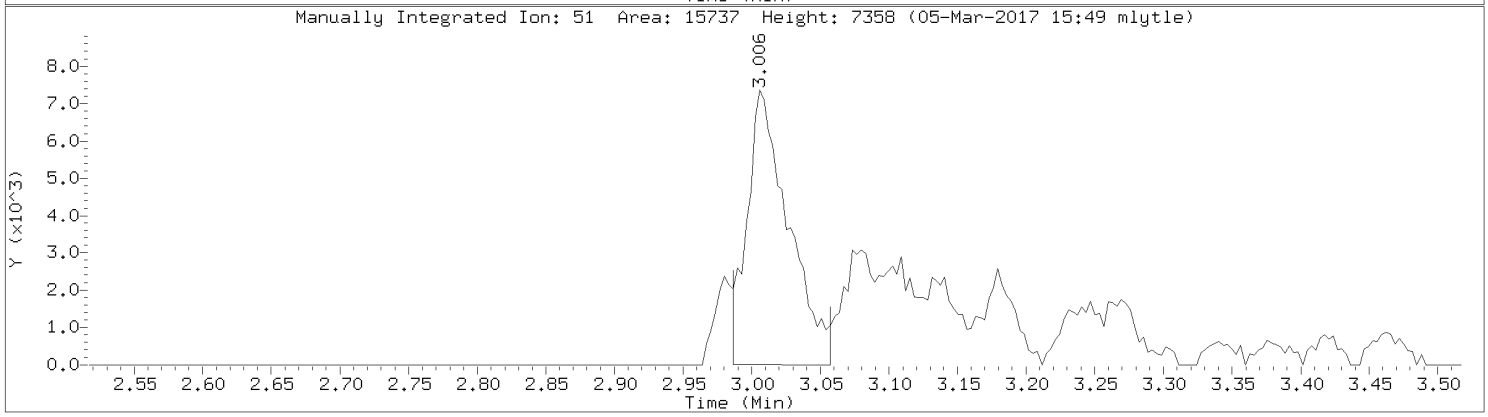
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06331.D
Injection Date: 04-MAR-2017 22:16
Instrument: 10airB.i
Lab Sample ID: 10379458004

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

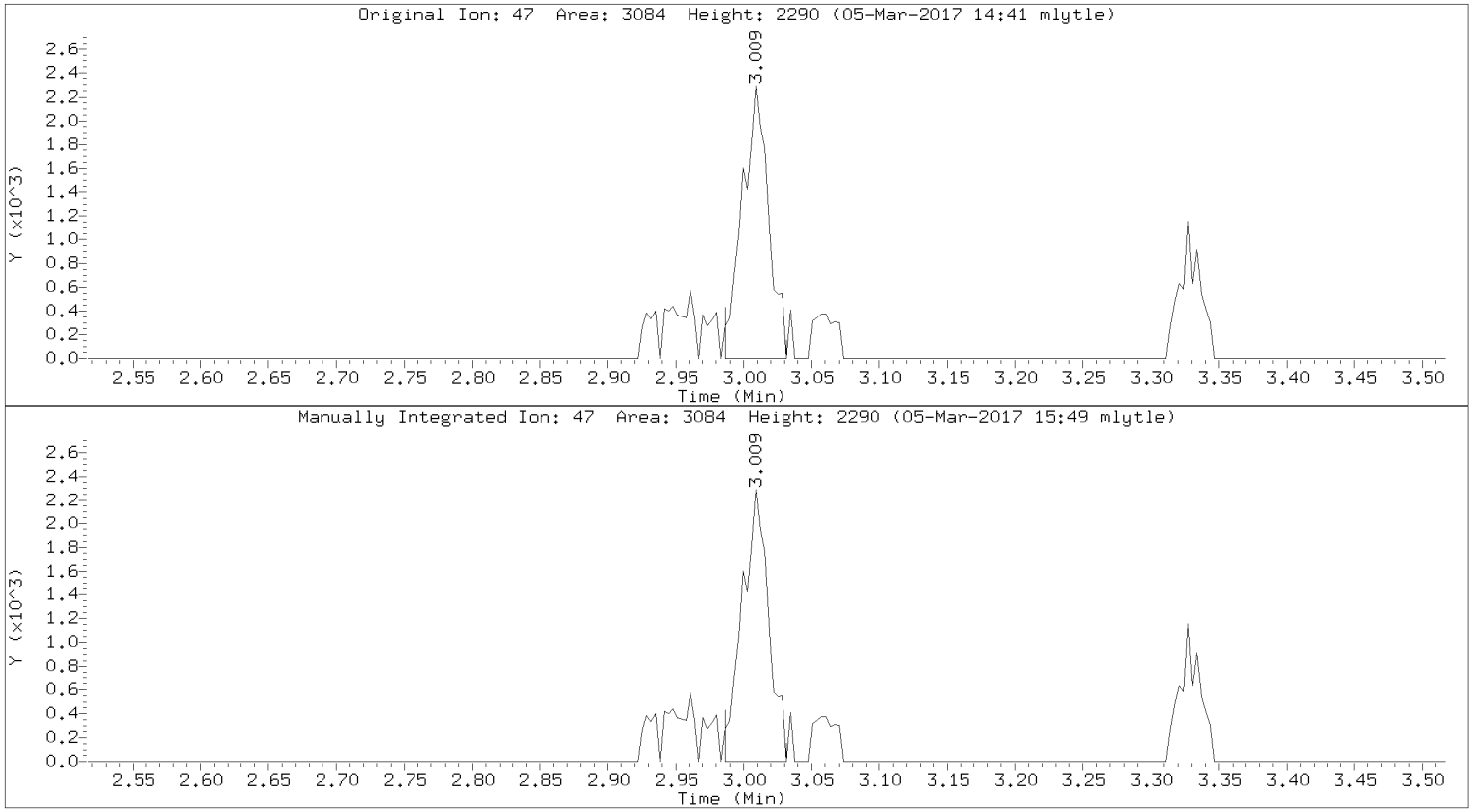








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06331.D
Injection Date: 04-MAR-2017 22:16
Instrument: 10airB.i
Lab Sample ID: 10379458004



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-D13_20170215 **Lab ID: 10379458005** Collected: 02/15/17 15:37 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**38.7**	ug/m3	4.6	1.6	1.92		03/04/17 22:47	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/04/17 22:47	107-05-1	
Benzene	**1.5**	ug/m3	0.62	0.23	1.92		03/04/17 22:47	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/04/17 22:47	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/04/17 22:47	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/04/17 22:47	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/04/17 22:47	106-99-0	
2-Butanone (MEK)	**3.5J**	ug/m3	5.8	0.44	1.92		03/04/17 22:47	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/04/17 22:47	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/04/17 22:47	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/04/17 22:47	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/04/17 22:47	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/04/17 22:47	75-00-3	
Chloroform	**3.9**	ug/m3	0.95	0.36	1.92		03/04/17 22:47	67-66-3	
Chloromethane	**1.2**	ug/m3	0.81	0.21	1.92		03/04/17 22:47	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/04/17 22:47	76-15-3	
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/04/17 22:47	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/04/17 22:47	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/04/17 22:47	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/04/17 22:47	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/04/17 22:47	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/04/17 22:47	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/04/17 22:47	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.9	0.92	1.92		03/04/17 22:47	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/04/17 22:47	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/04/17 22:47	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 22:47	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/04/17 22:47	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/04/17 22:47	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/04/17 22:47	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/04/17 22:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/04/17 22:47	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/04/17 22:47	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/04/17 22:47	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/04/17 22:47	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/04/17 22:47	100-41-4	
4-Ethyltoluene	**<0.36**	ug/m3	1.9	0.36	1.92		03/04/17 22:47	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/04/17 22:47	87-68-3	
n-Hexane	**1.7**	ug/m3	1.4	0.69	1.92		03/04/17 22:47	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/04/17 22:47	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/04/17 22:47	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/04/17 22:47	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 22:47	108-87-2	
Methylene Chloride	**4.6J**	ug/m3	6.8	1.0	1.92		03/04/17 22:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/04/17 22:47	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/04/17 22:47	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D
Report Date: 05-Mar-2017 15:52

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06332.D
Lab Smp Id: 10379458005
Inj Date : 04-MAR-2017 22:47
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 32
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	2.999	3.018	(0.536)	17731	2.31255	4.44(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.047	3.060	(0.544)	10658	0.20982	0.403	
6	Chloromethane	50	3.140	3.156	(0.561)	4474	0.29775	0.572	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.555	3.545	(0.635)	1701765	354.135	680(A)	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.655	3.674	(0.653)	3918	0.10927	0.210(M)	
17	Acrolein	56	3.664	3.684	(0.655)	1627	0.52937	1.02(Q)	
18	Acetone	43	3.703	3.722	(0.662)	173421	8.35746	16.0	
19	Isopropyl Alcohol	45	3.777	3.767	(0.675)	425360	20.0996	38.6	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D
Report Date: 05-Mar-2017 15:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.989	4.005	(0.713)	9859	0.67316	1.29	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.391	(0.792)	11754	0.51545	0.990	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.801)	396901	9.53895	9.54	
	33 Methyl Ethyl Ketone	72	4.552	4.555	(0.813)	3303	0.60320	1.16(Q)	
	34 n-Hexane	57	4.574	4.584	(0.817)	5028	0.24110	0.463(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.713	4.716	(0.842)	6840	0.25484	0.489(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.815	4.841	(0.860)	11081	0.40898	0.785	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.449	5.468	(0.974)	9946	0.23581	0.453	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	1307811	10.0000		
	48 2,2,4-Trimethylpentane	57	5.758	5.770	(1.029)	9007	0.13787	0.265	
	49 Heptane	43	5.877	5.893	(1.050)	2423	0.10281	0.197(Q)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.263)	1113032	9.50881	9.51	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.276)	22197	0.42023	0.807	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	2836	0.09692	0.186	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	842698	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.069	9.082	(1.050)	11335	0.23300	0.447	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D
Report Date: 05-Mar-2017 15:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.388	11.378	(2.035)	12948	0.61536	1.18(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	467901	10.0794	10.1	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.169	14.156	(1.640)	3524	0.44073	0.846	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D
Report Date: 05-Mar-2017 15:52

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06332.D
Lab Smp Id: 10379458005
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

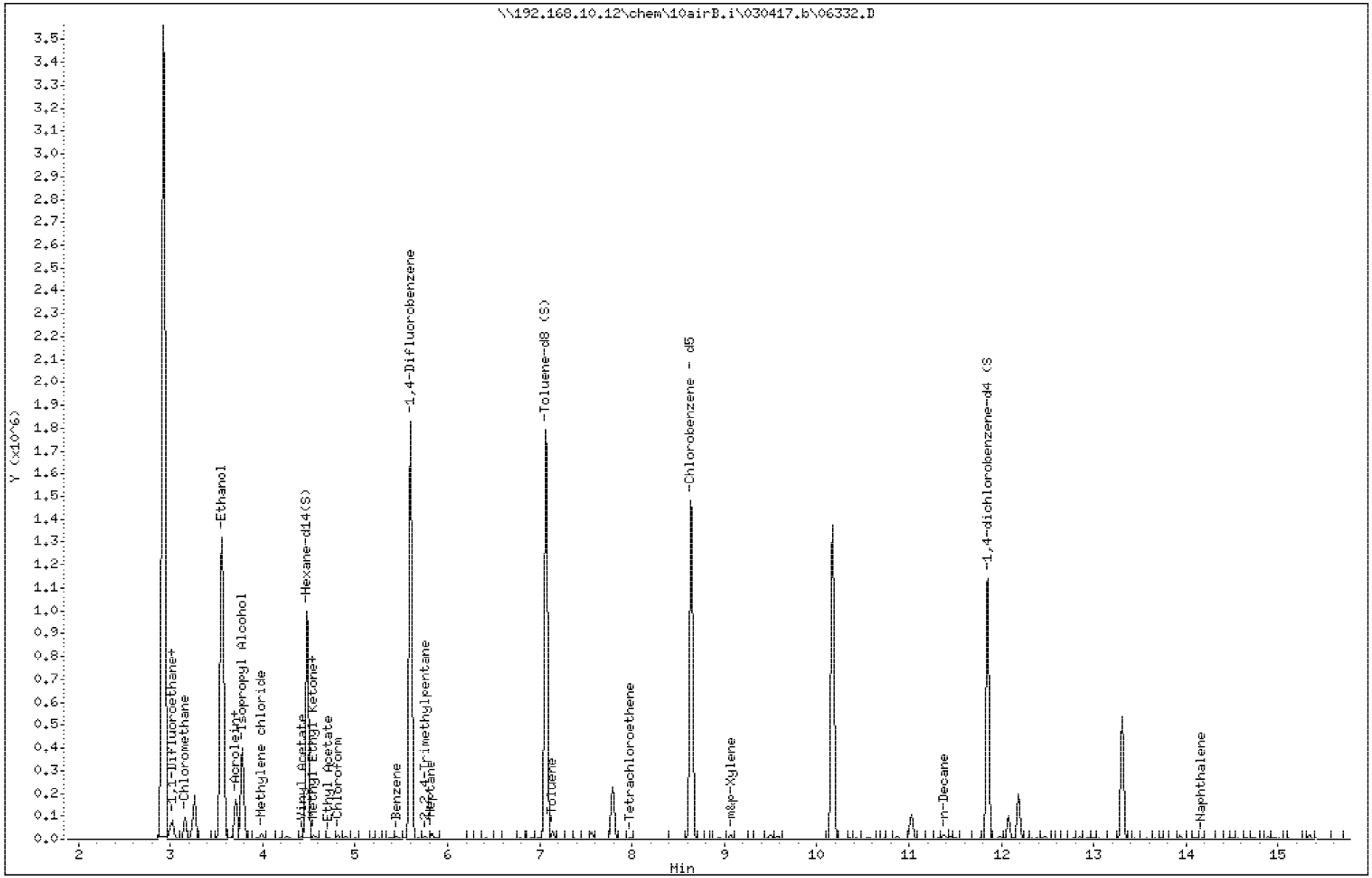
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1307811	-7.52
67 Chlorobenzene - d	951026	570616	1331436	842698	-11.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D
Date : 04-MAR-2017 22:47
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

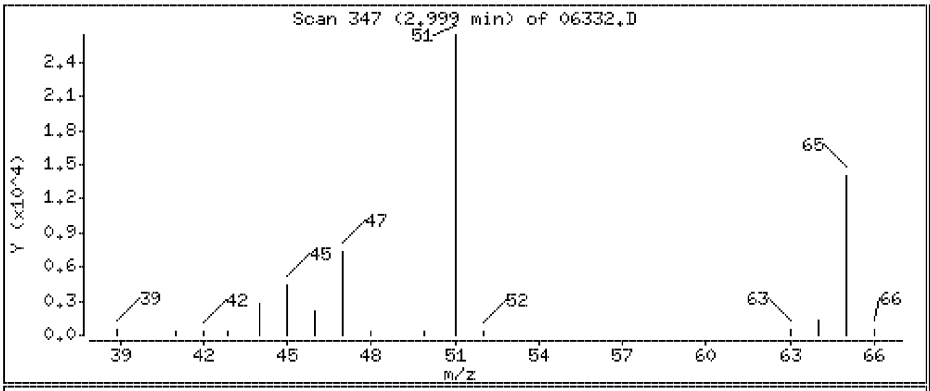
Operator: MJL

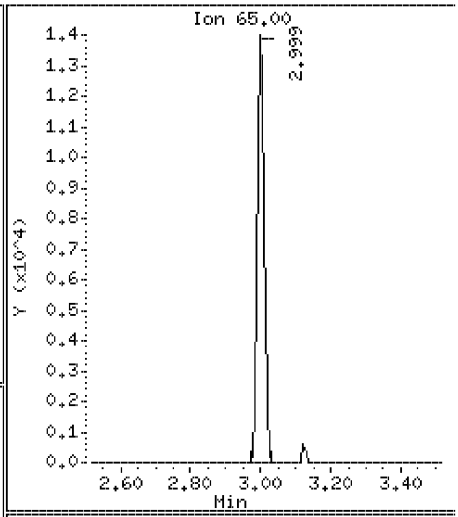
Column phase: J&W DB-5

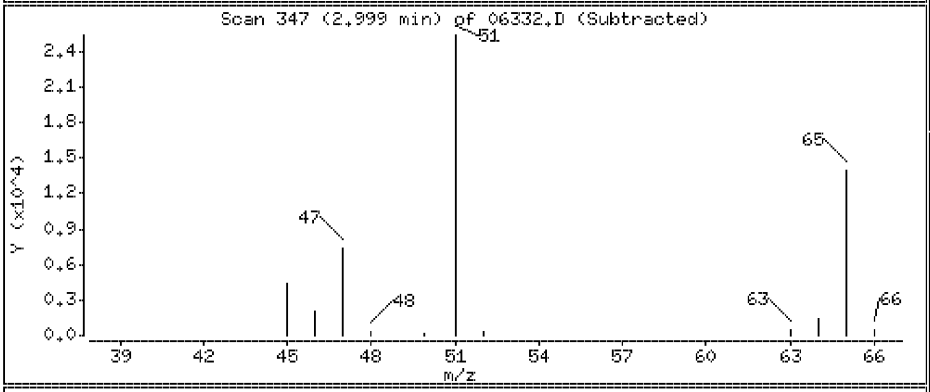
Column diameter: 0.32

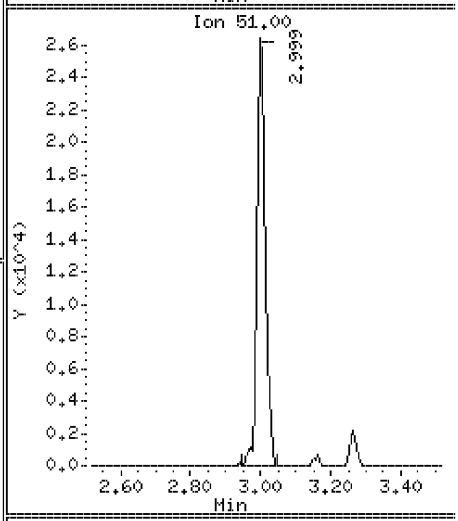
2 1,1-Difluoroethane

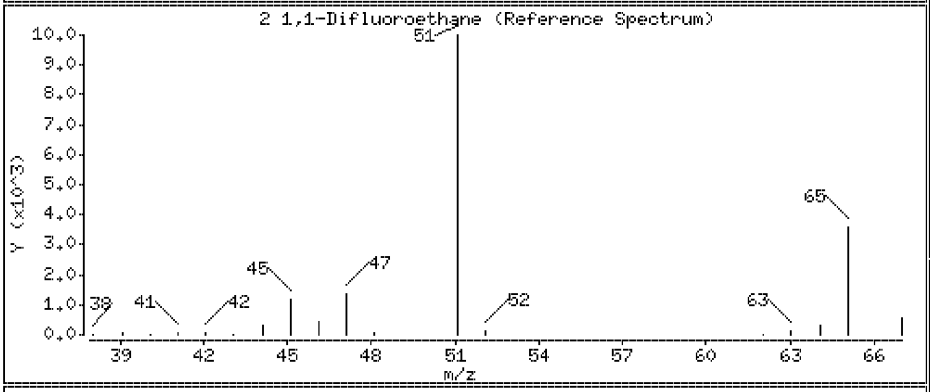
Concentration: 4.44 ppbv

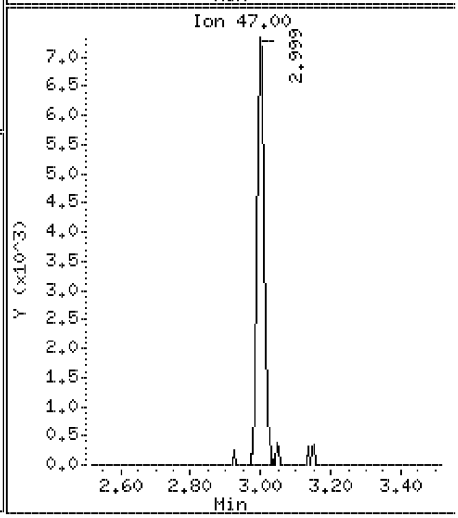


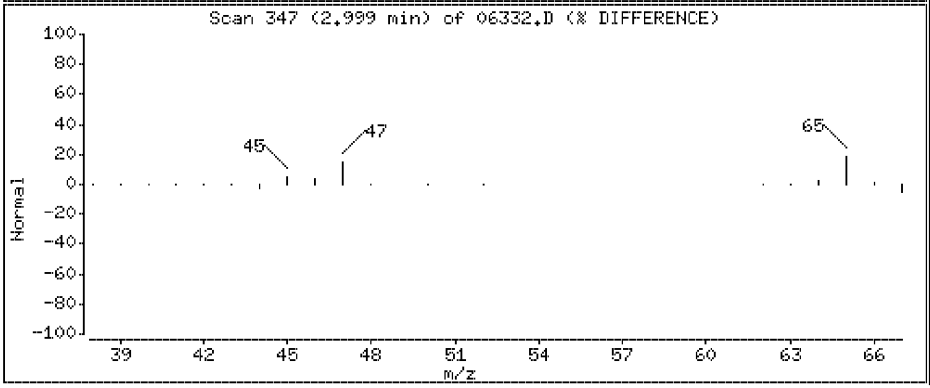












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

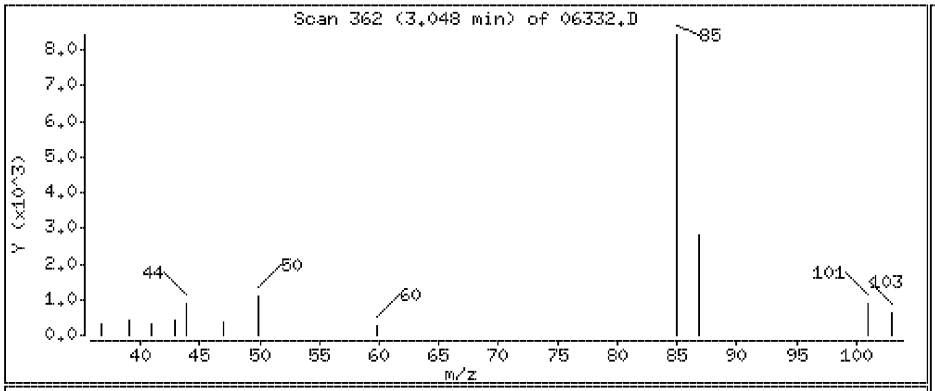
Operator: MJL

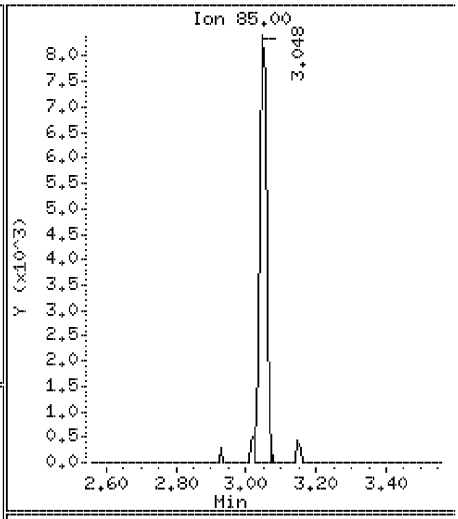
Column phase: J&W DB-5

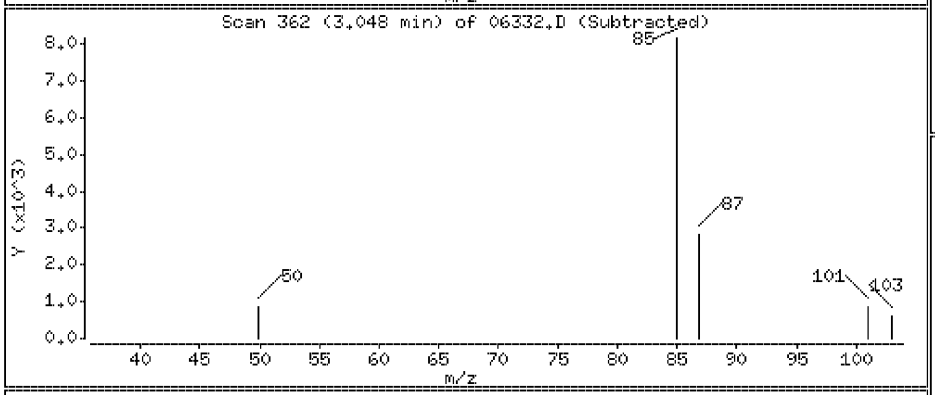
Column diameter: 0.32

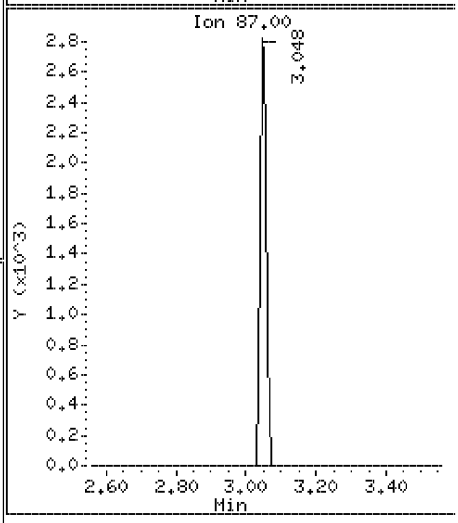
5 Dichlorodifluoromethane

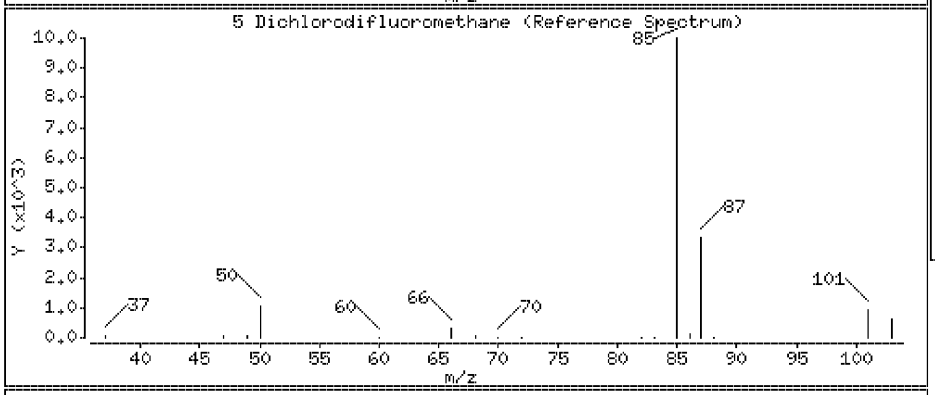
Concentration: 0.403 ppbv

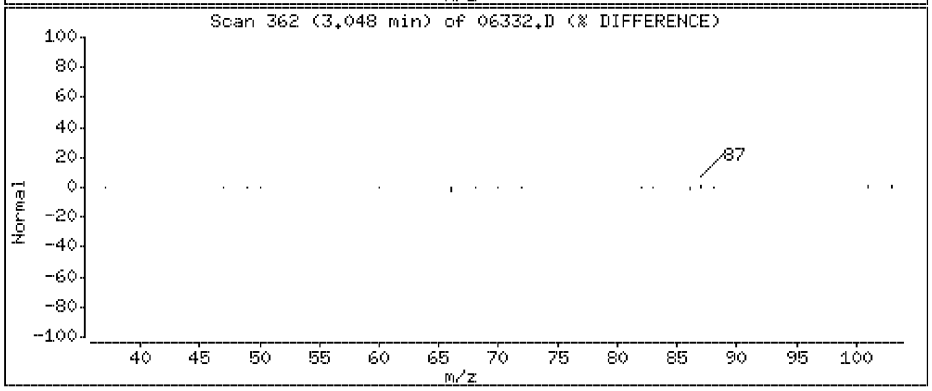












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

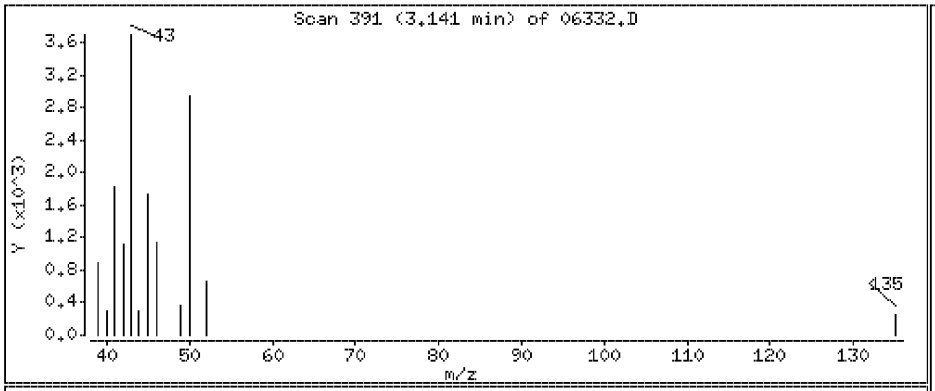
Operator: MJL

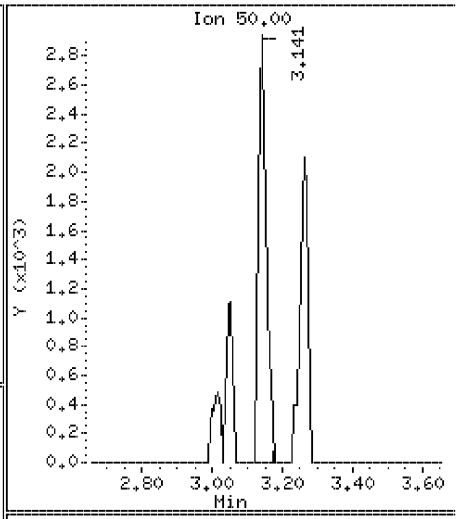
Column phase: J&W DB-5

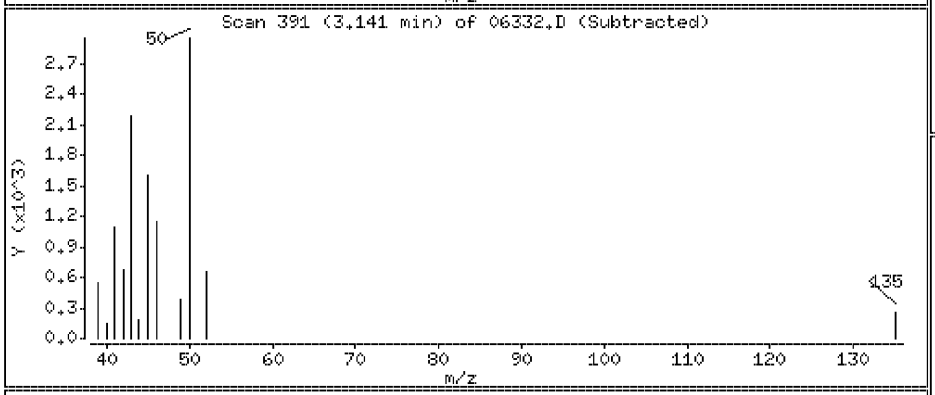
Column diameter: 0.32

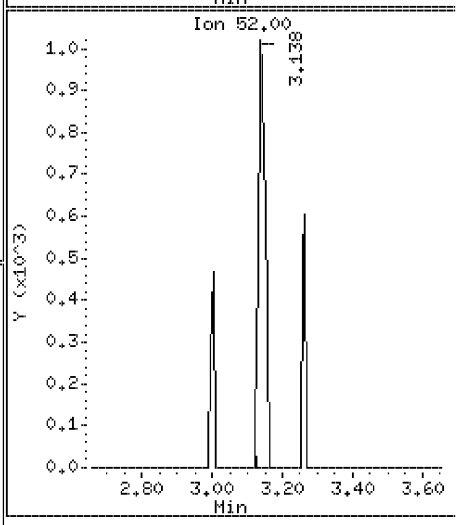
6 Chloromethane

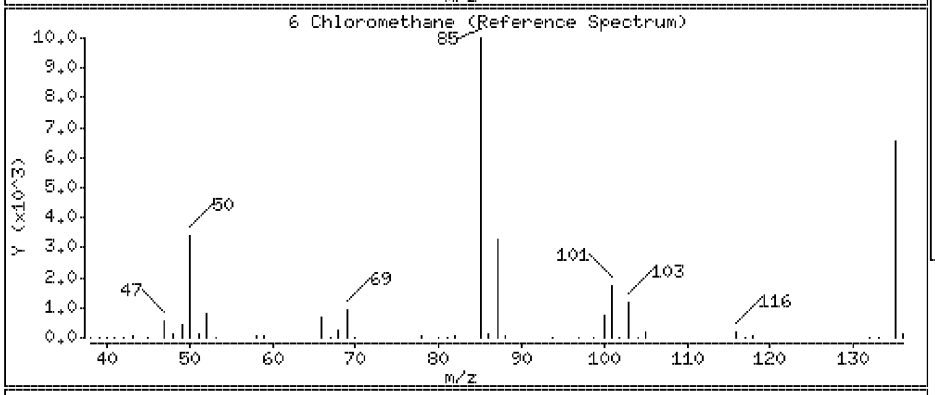
Concentration: 0.572 ppbv

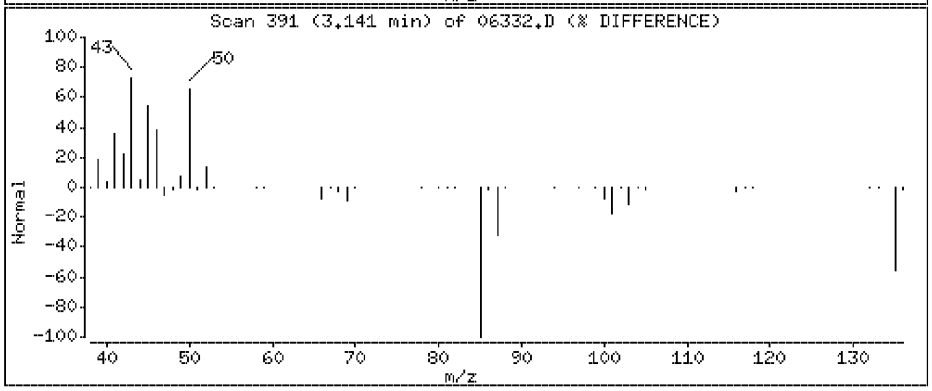












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

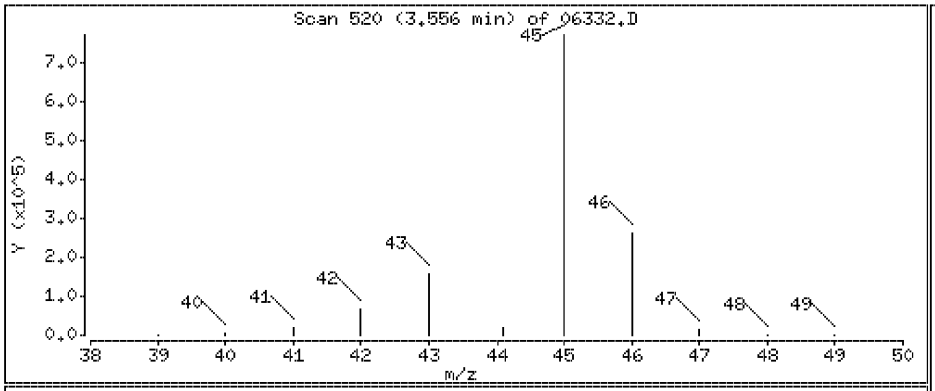
Operator: MJL

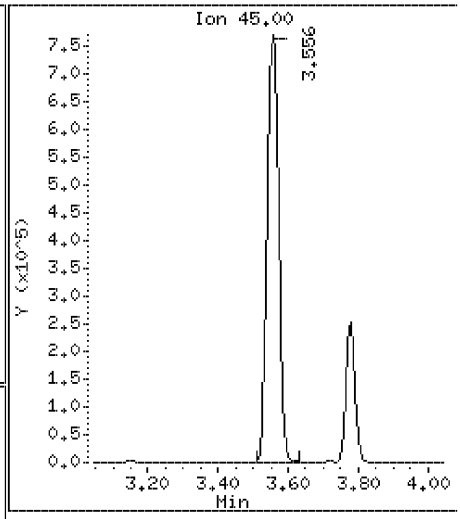
Column phase: J&W DB-5

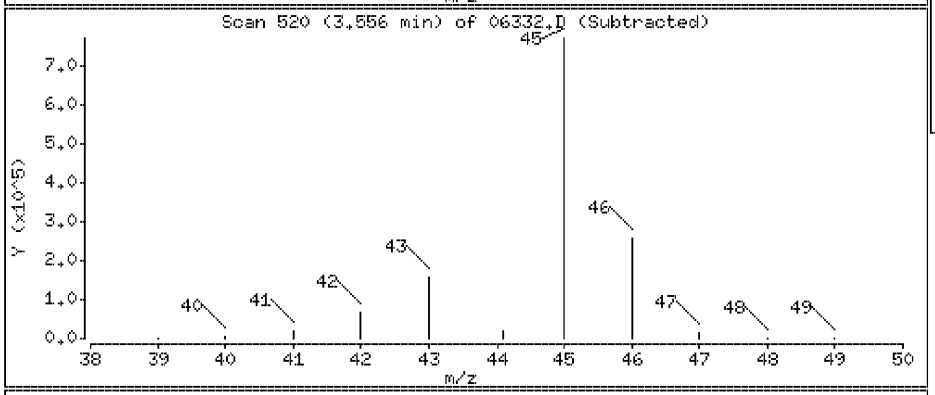
Column diameter: 0.32

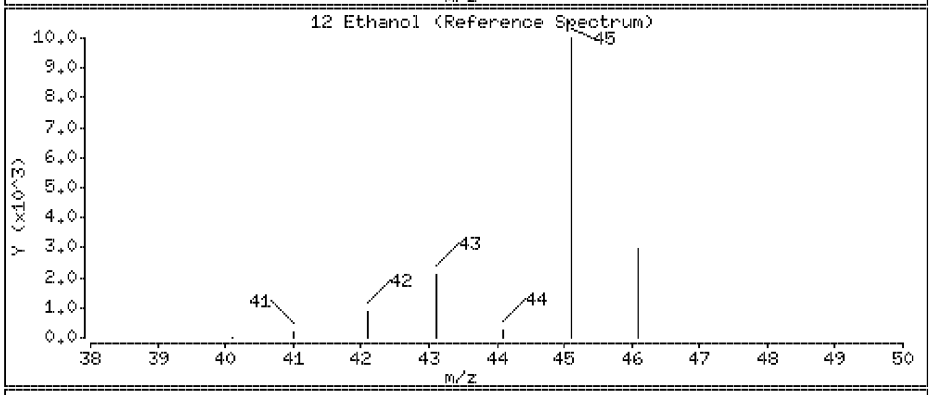
12 Ethanol

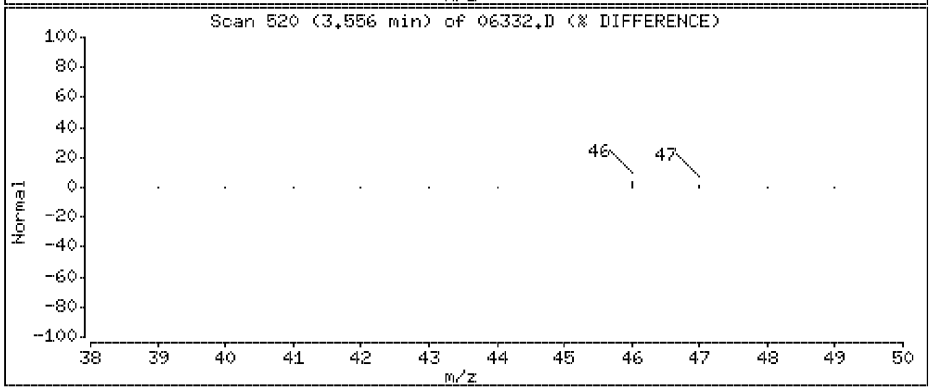
Concentration: 680 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

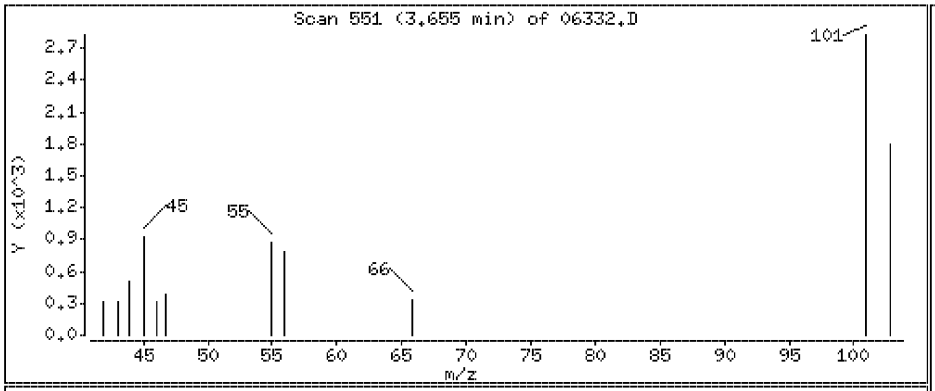
Operator: MJL

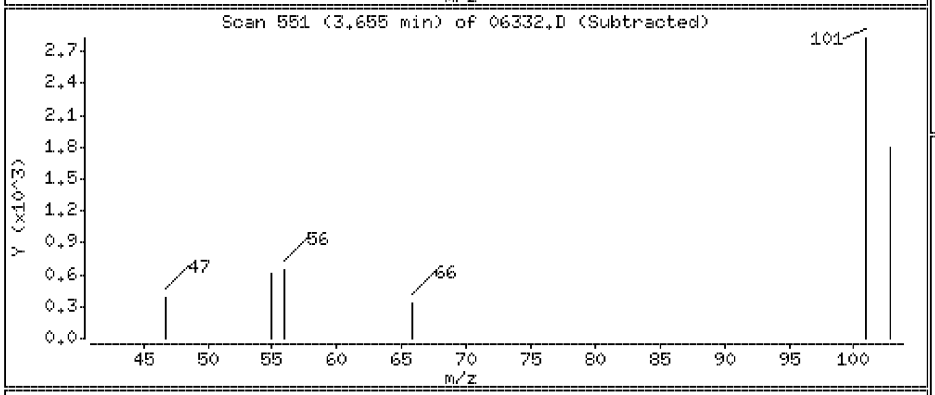
Column phase: J&W DB-5

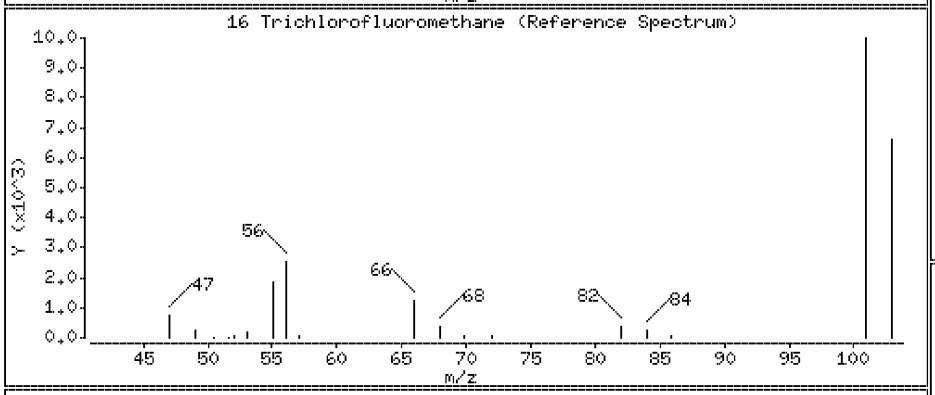
Column diameter: 0.32

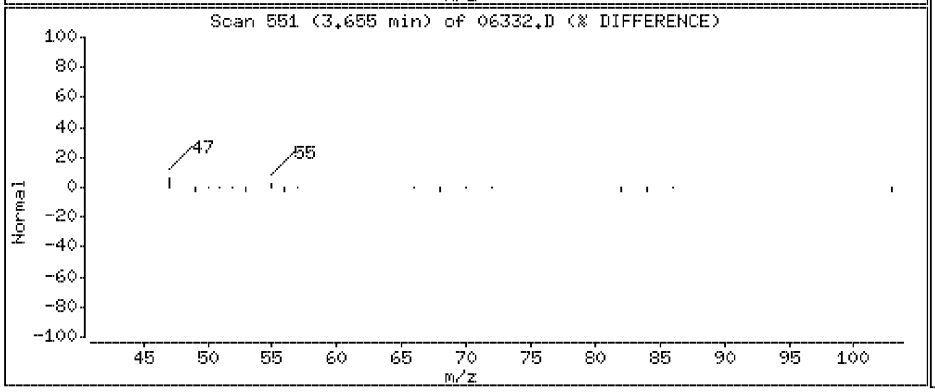
16 Trichlorofluoromethane

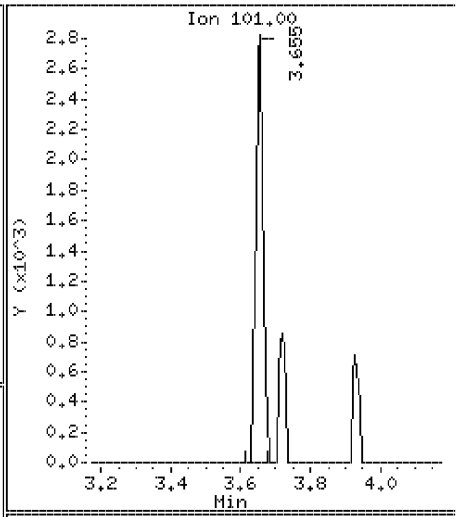
Concentration: 0.210 ppbv

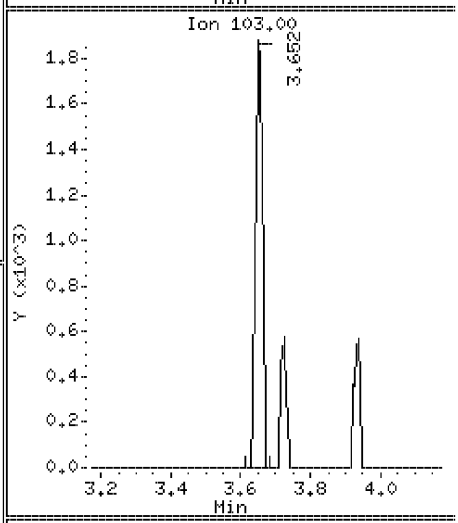


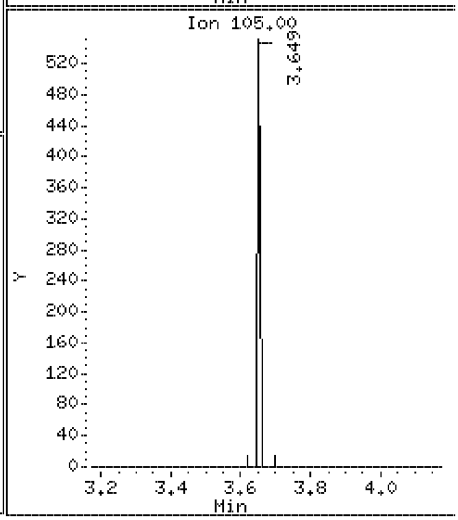












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

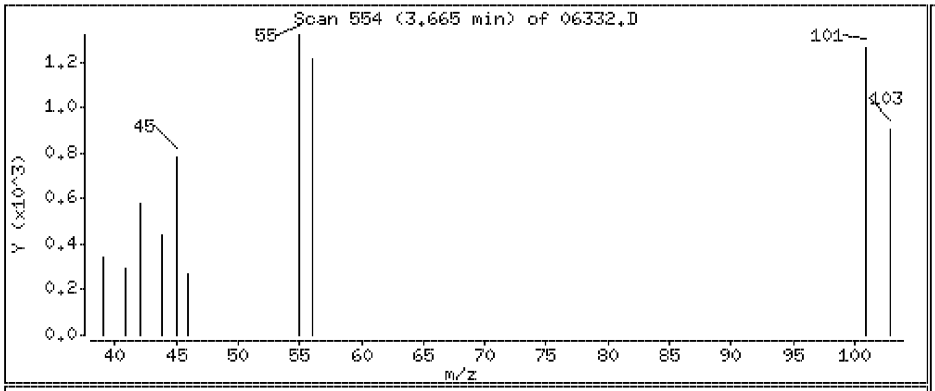
Operator: MJL

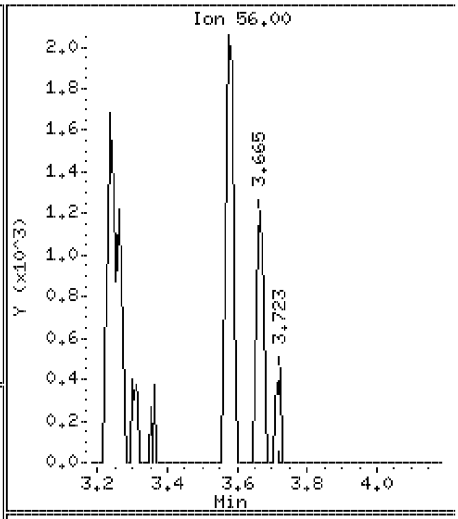
Column phase: J&W DB-5

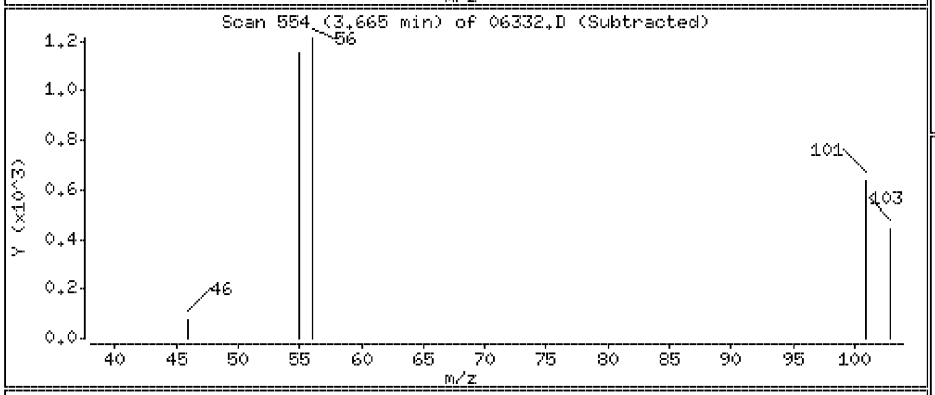
Column diameter: 0.32

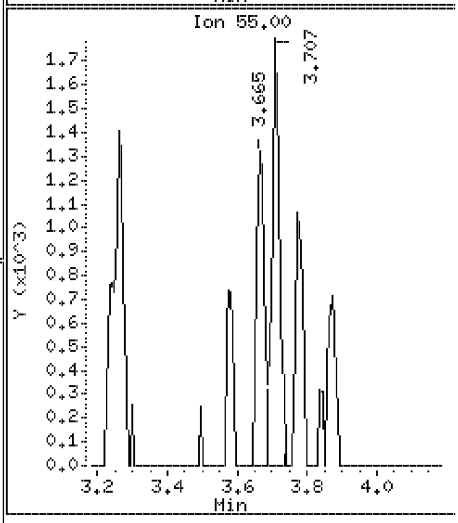
17 Acrolein

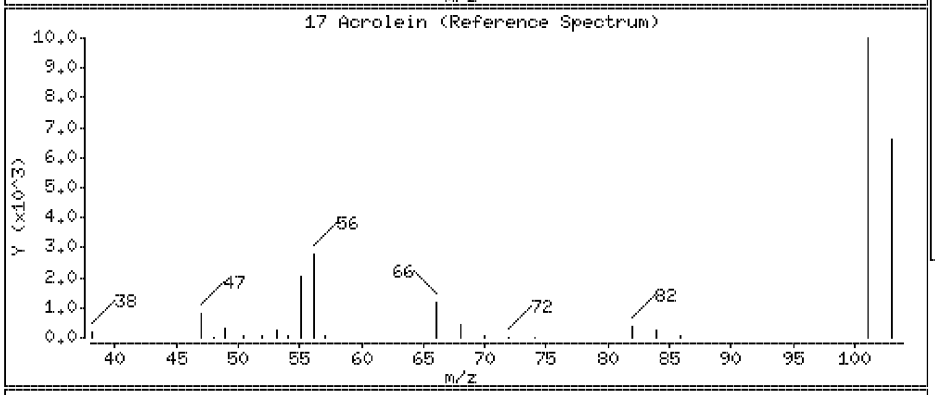
Concentration: 1.02 ppbv

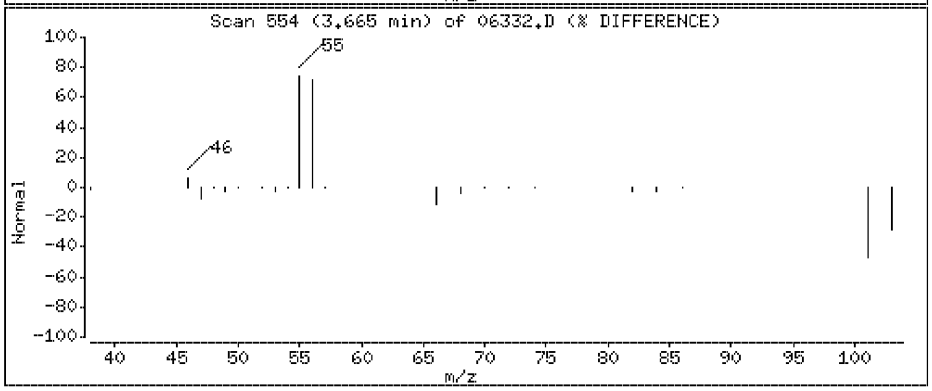












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

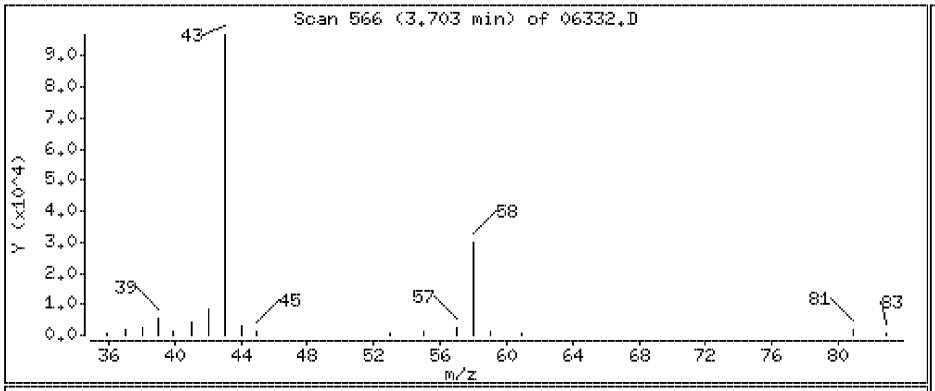
Operator: MJL

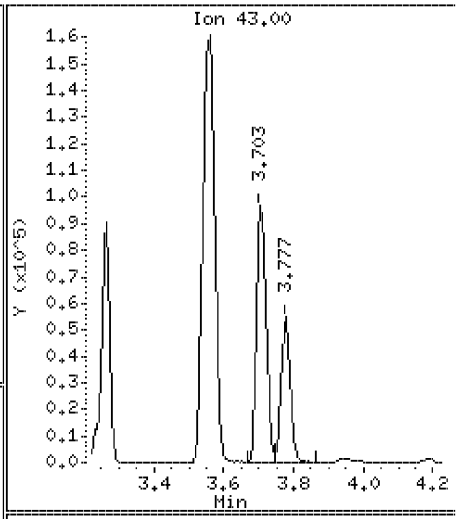
Column phase: J&W DB-5

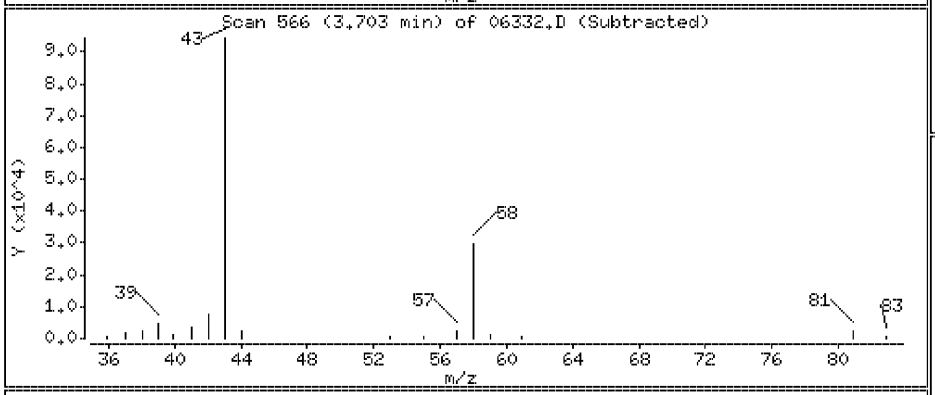
Column diameter: 0.32

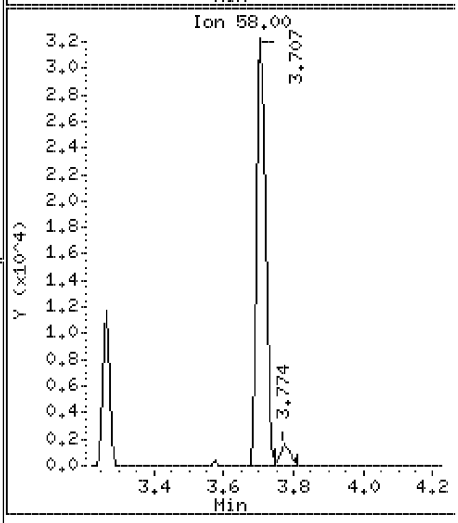
18 Acetone

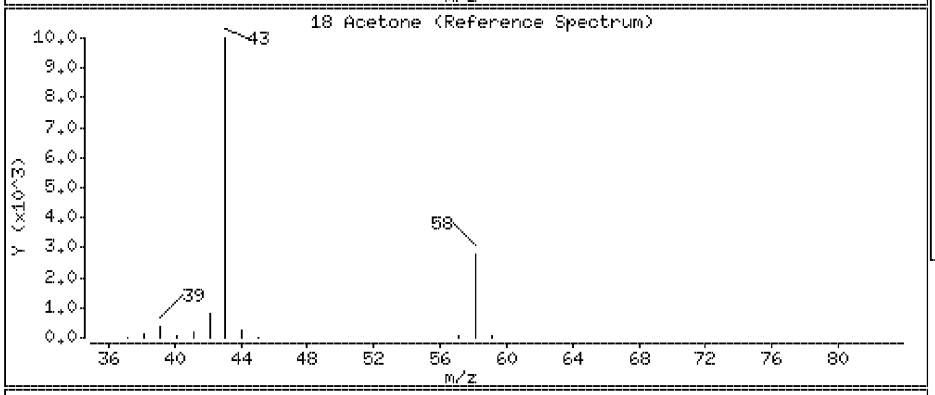
Concentration: 16.0 ppbv

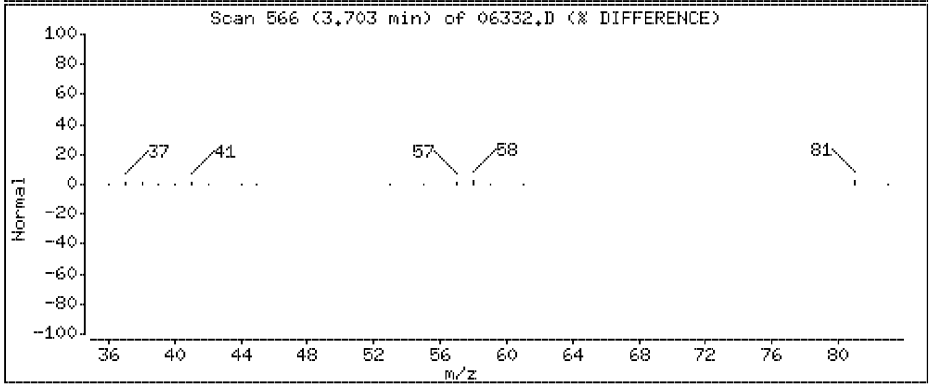












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

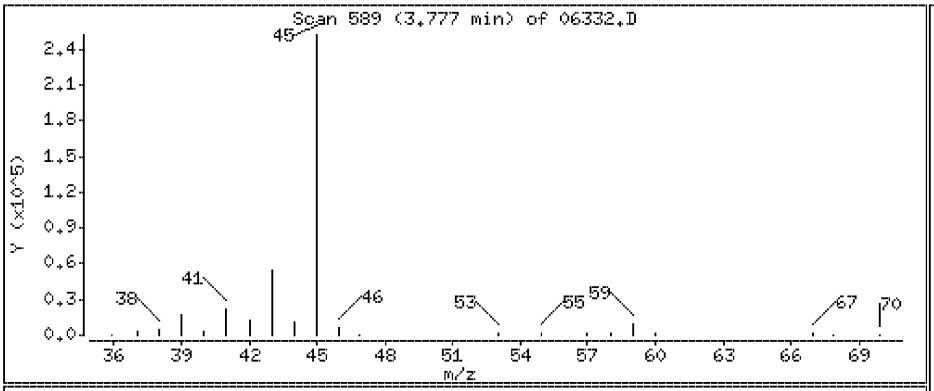
Operator: MJL

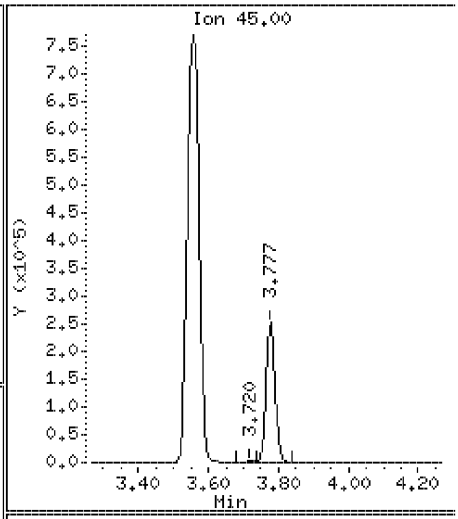
Column phase: J&W DB-5

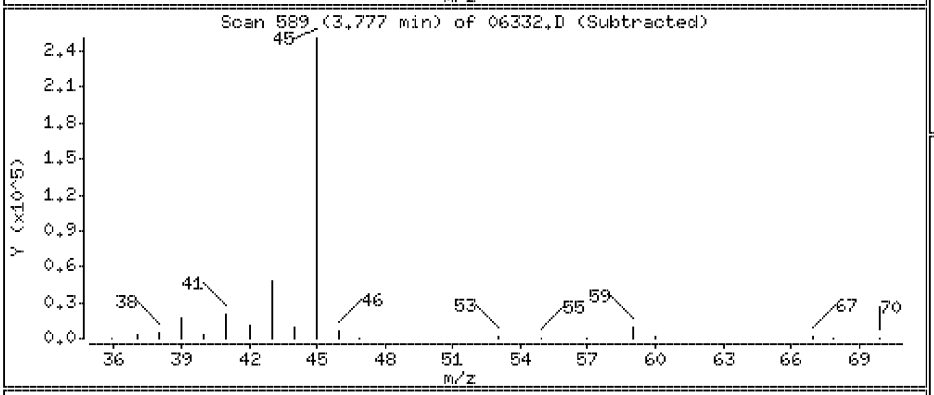
Column diameter: 0.32

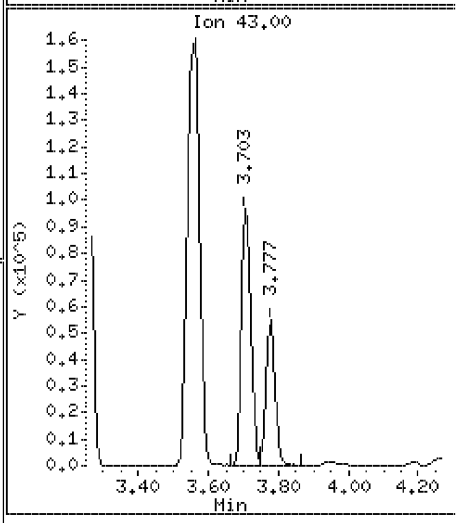
19 Isopropyl Alcohol

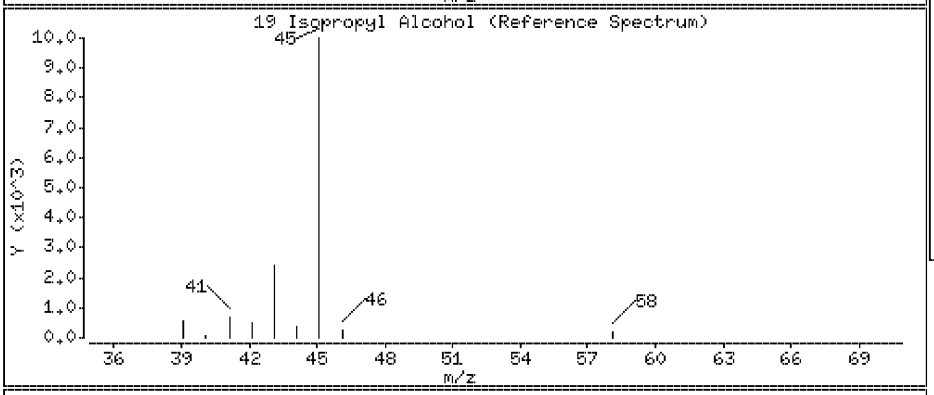
Concentration: 38.6 ppbv

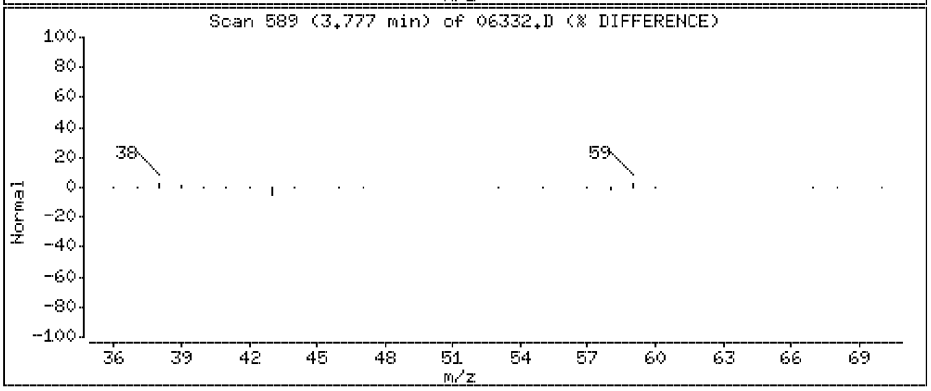












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

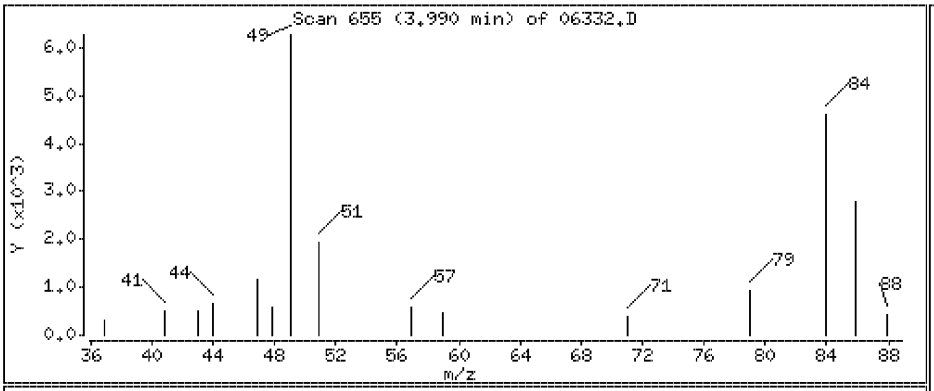
Operator: MJL

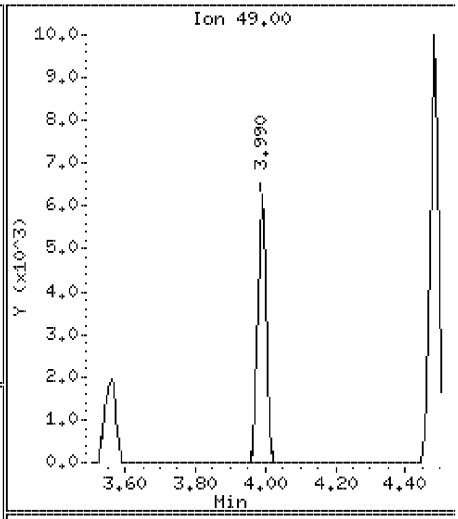
Column phase: J&W DB-5

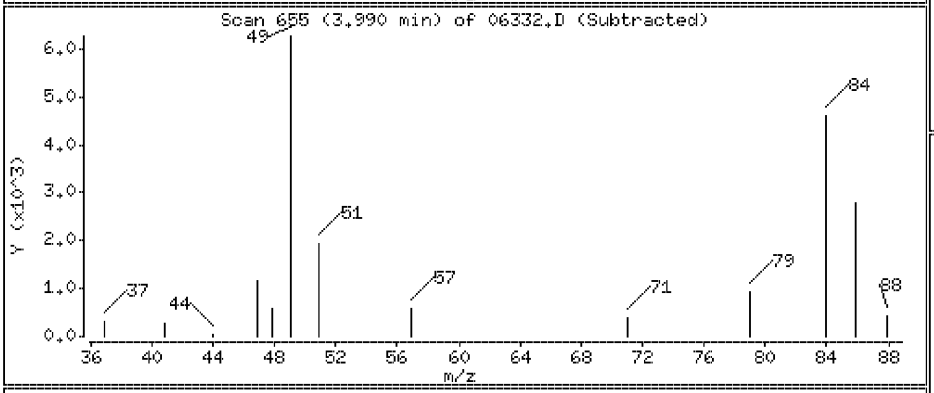
Column diameter: 0.32

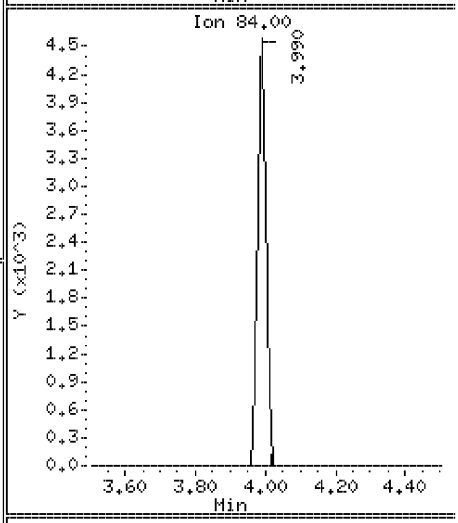
25 Methylene chloride

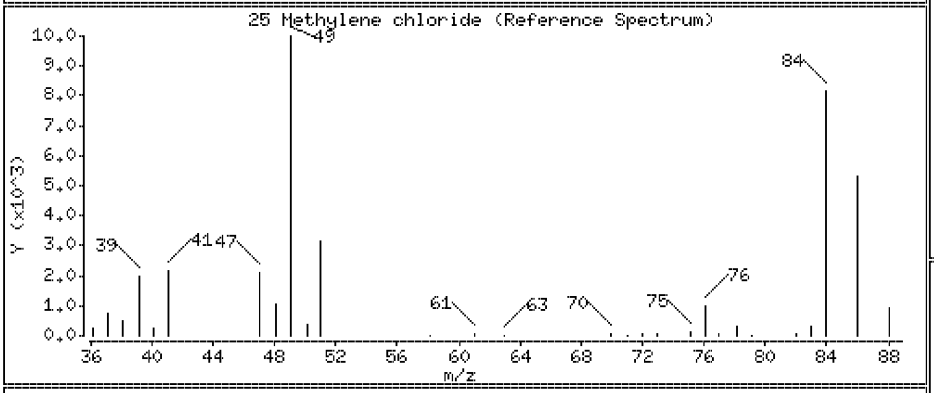
Concentration: 1.29 ppbv

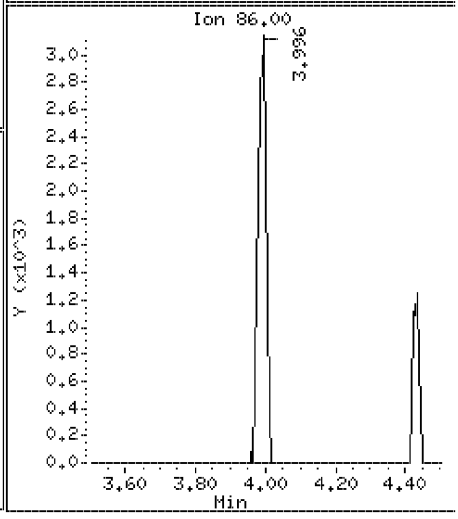


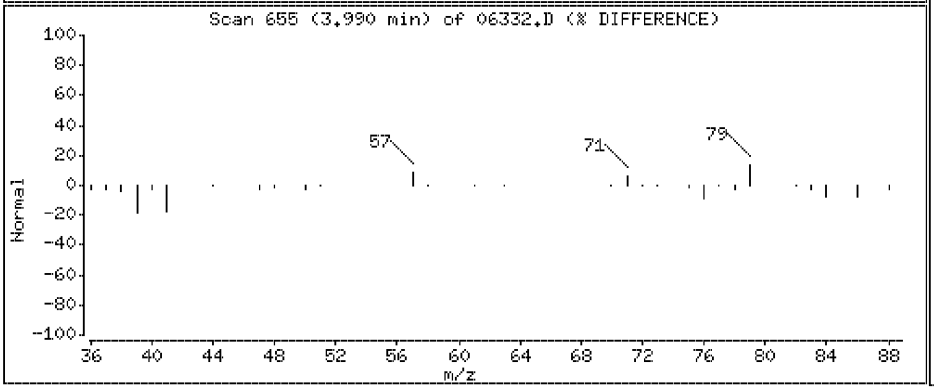












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

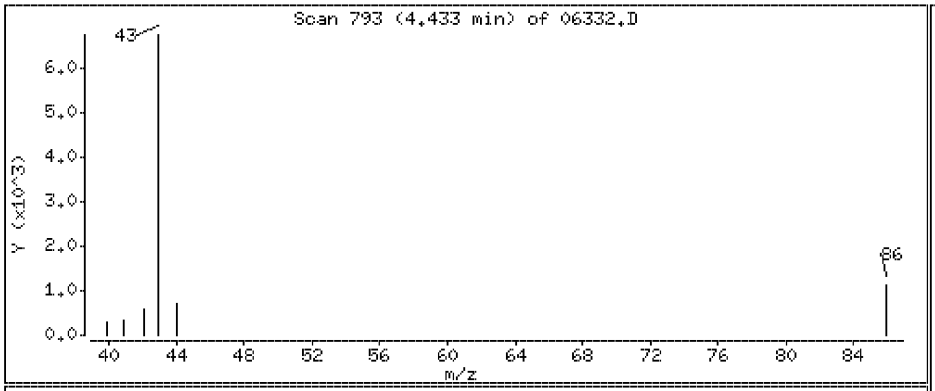
Operator: MJL

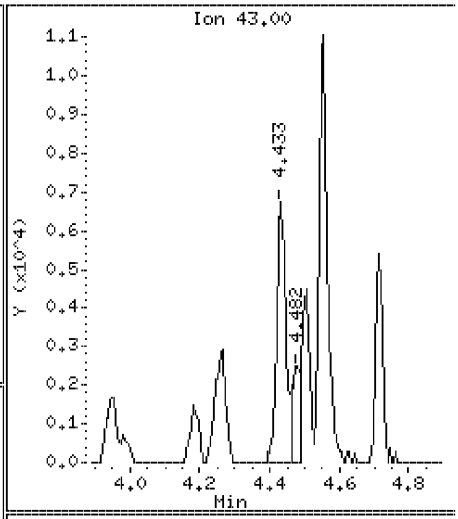
Column phase: J&W DB-5

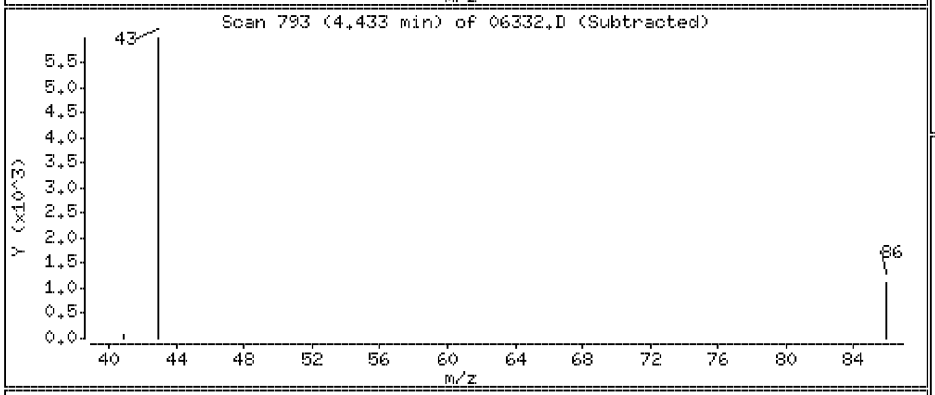
Column diameter: 0.32

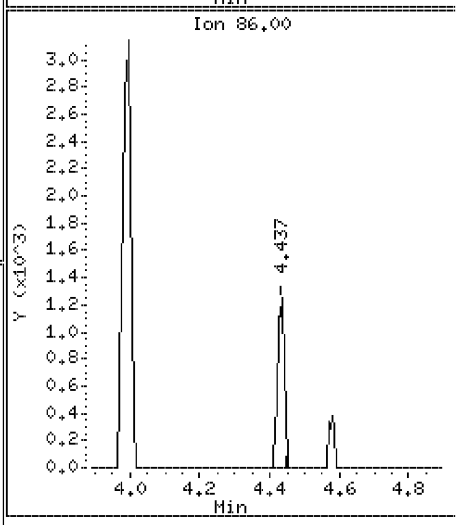
30 Vinyl Acetate

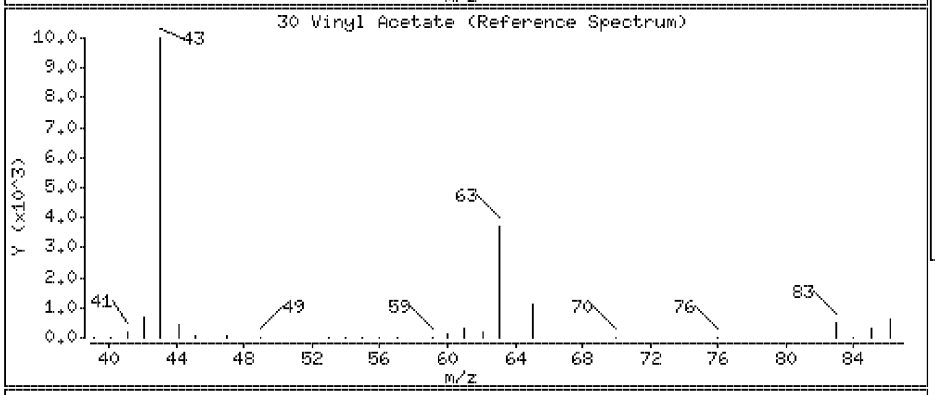
Concentration: 0.990 ppbv

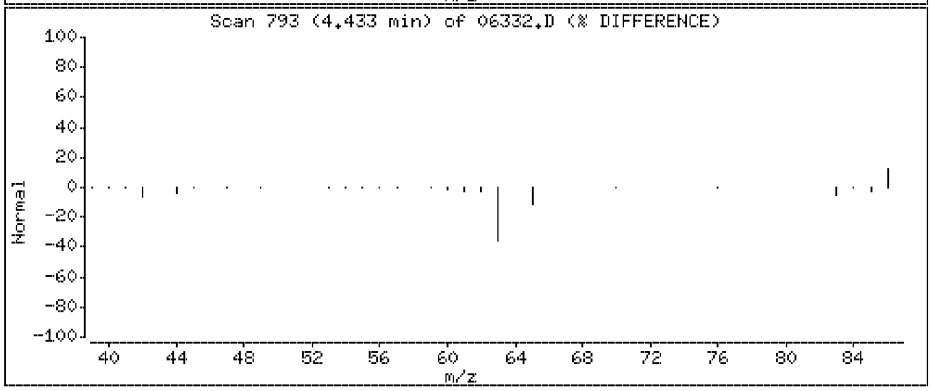












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

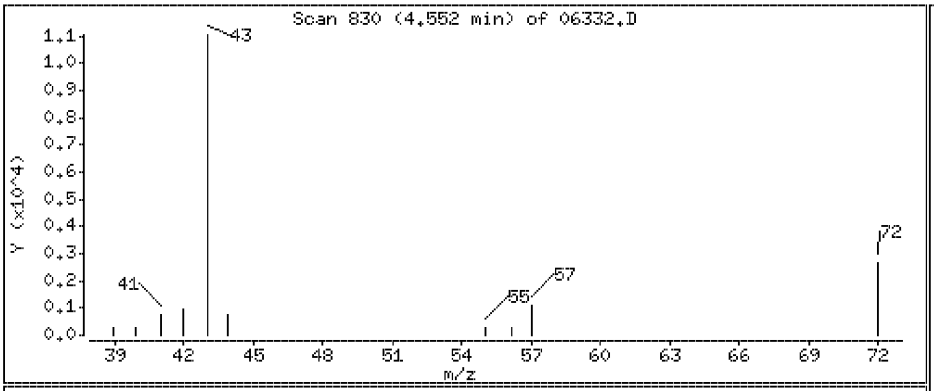
Operator: MJL

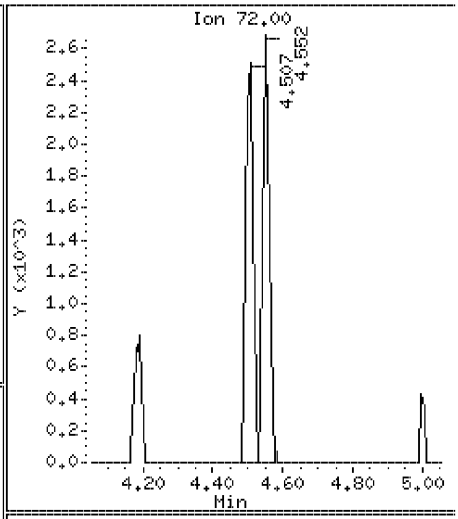
Column phase: J&W DB-5

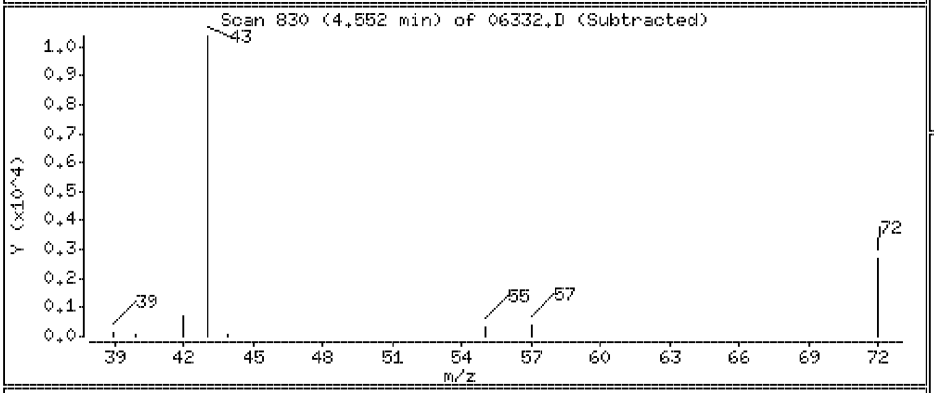
Column diameter: 0.32

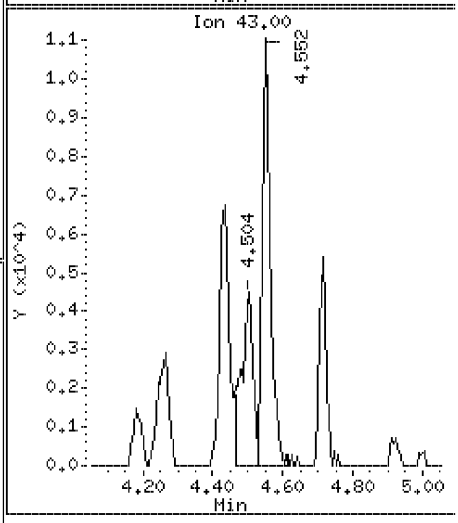
33 Methyl Ethyl Ketone

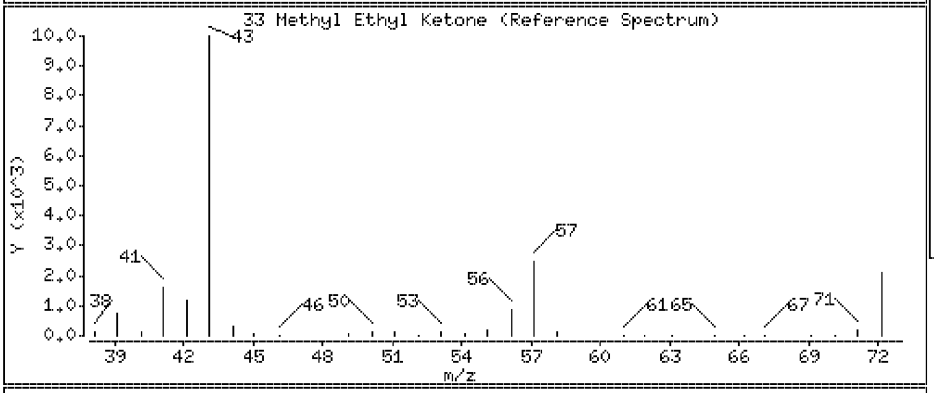
Concentration: 1.16 ppbv

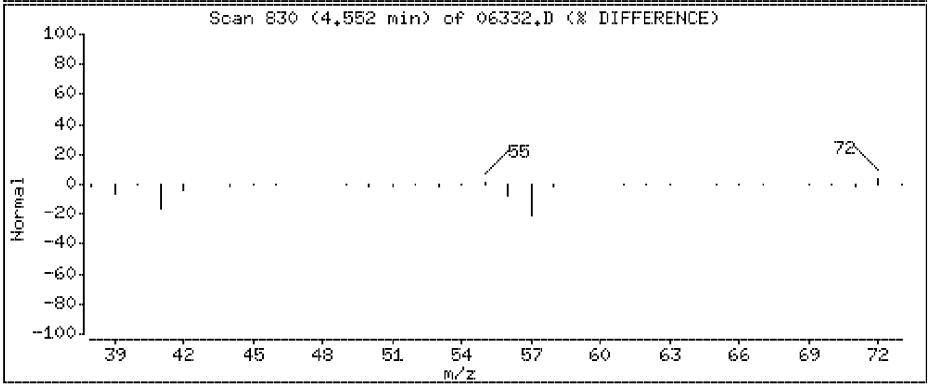












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

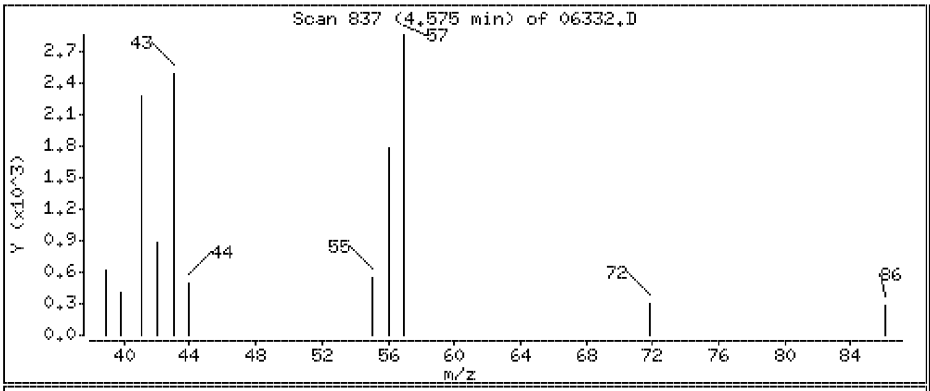
Operator: MJL

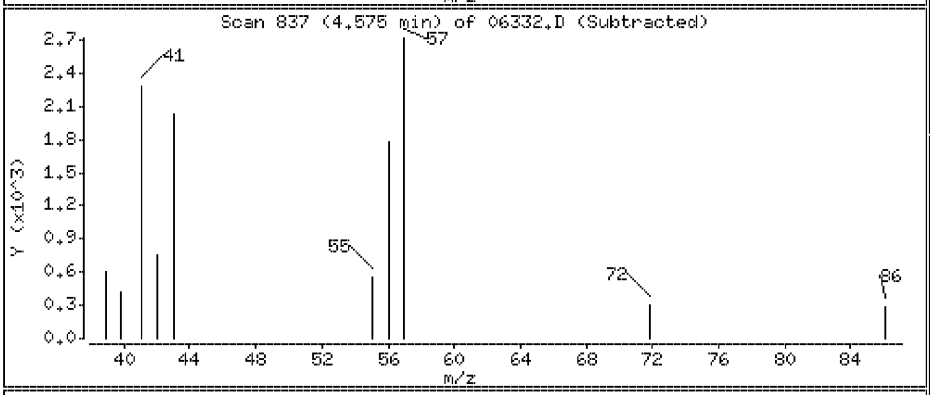
Column phase: J&W DB-5

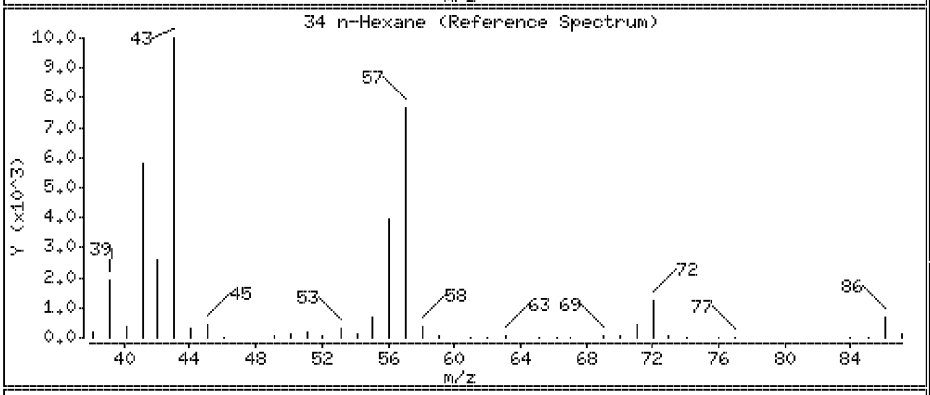
Column diameter: 0.32

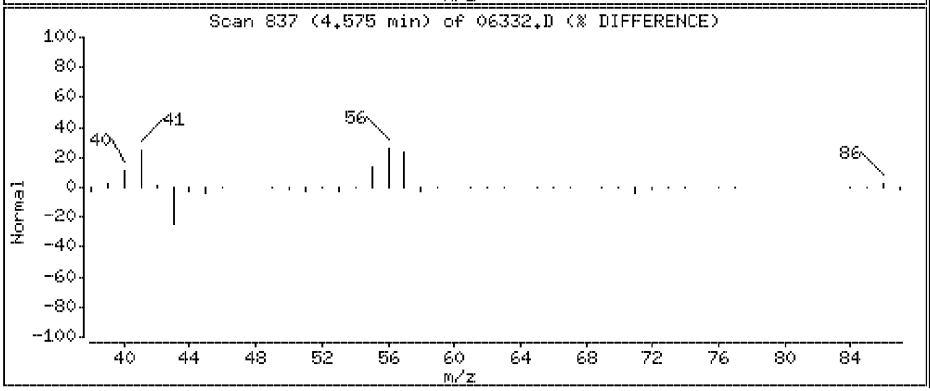
34 n-Hexane

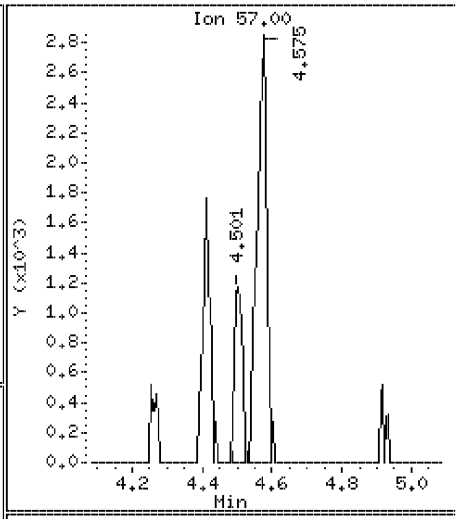
Concentration: 0.463 ppbv

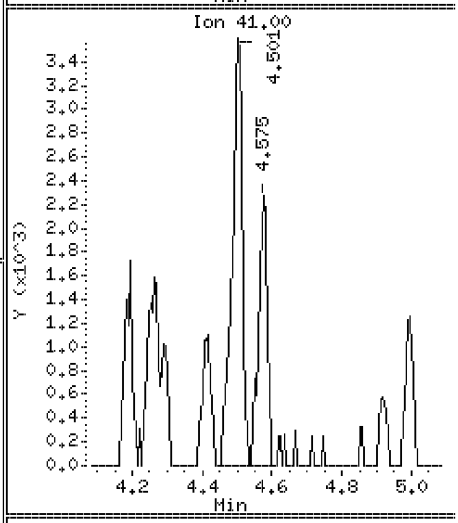


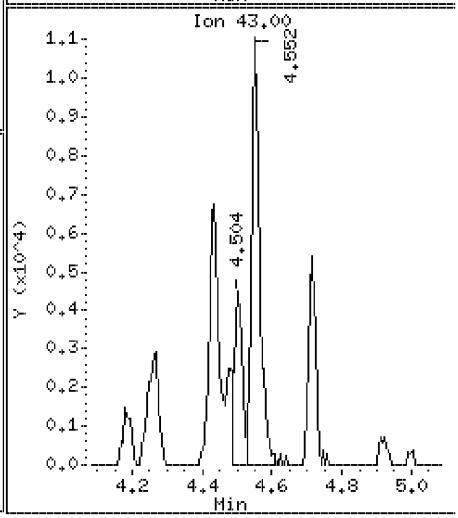












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

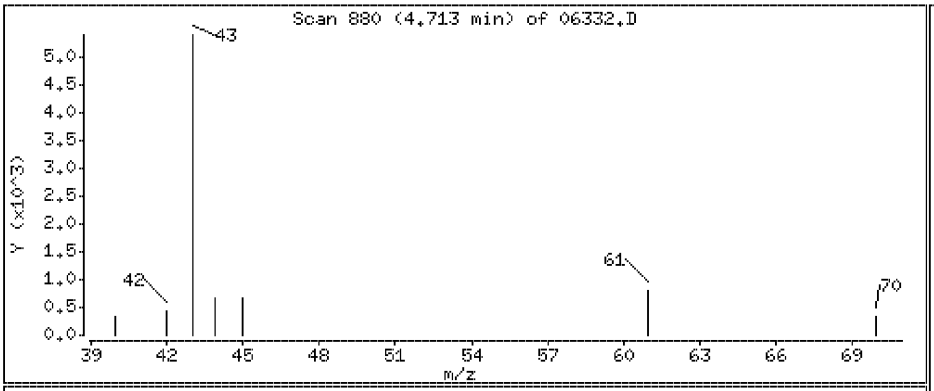
Operator: MJL

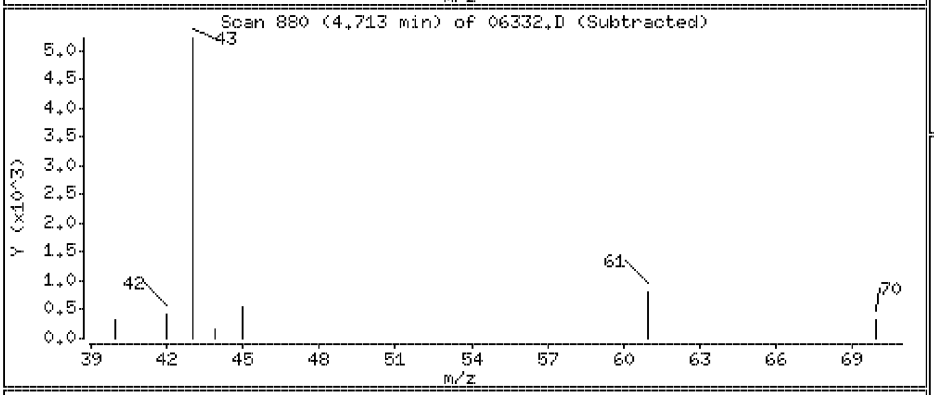
Column phase: J&W DB-5

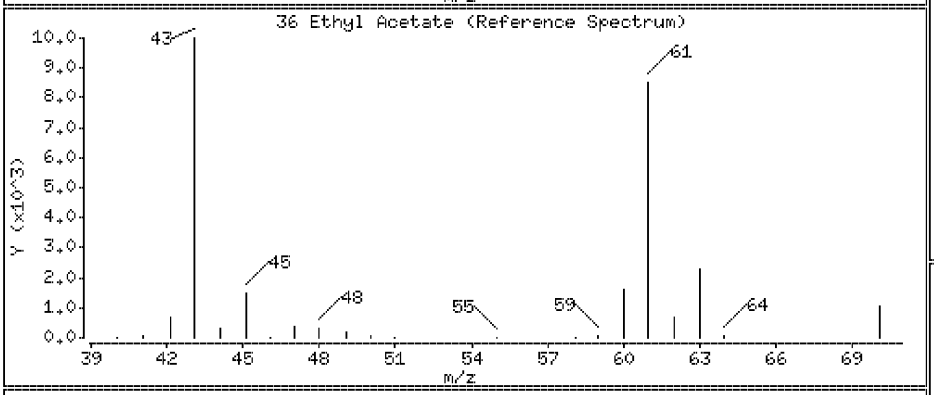
Column diameter: 0.32

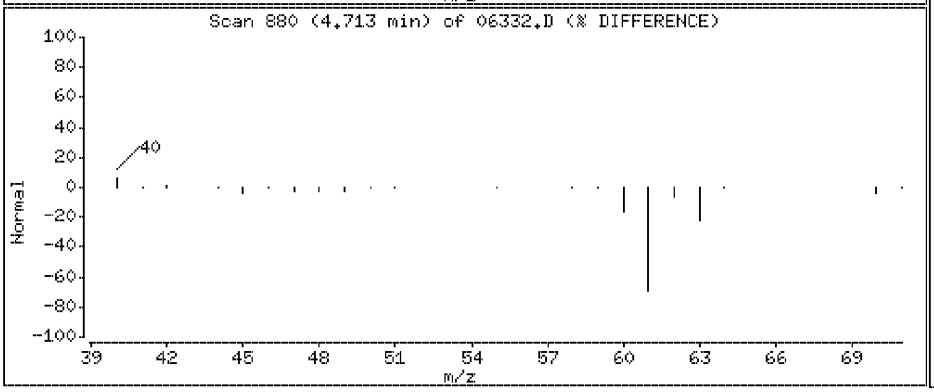
36 Ethyl Acetate

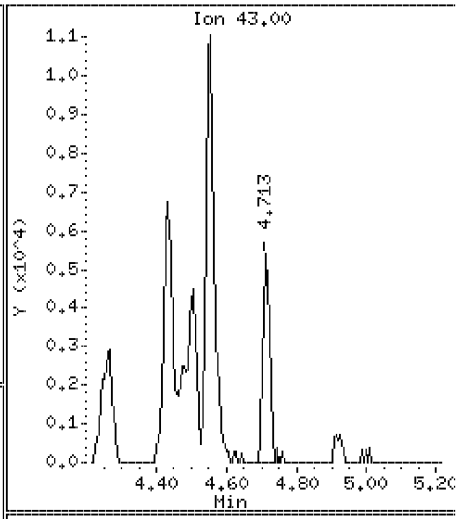
Concentration: 0.489 ppbv

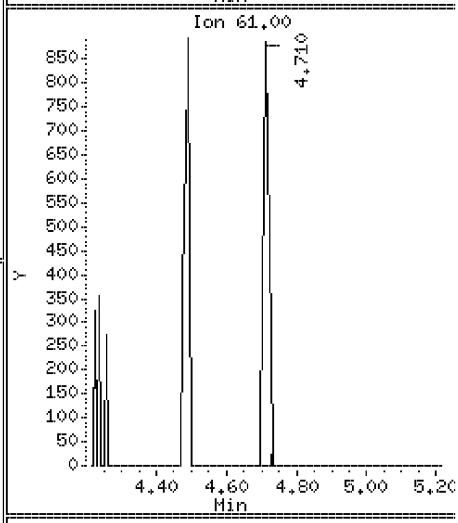


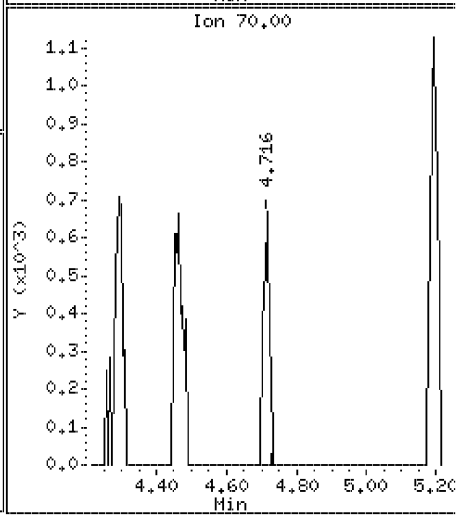












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

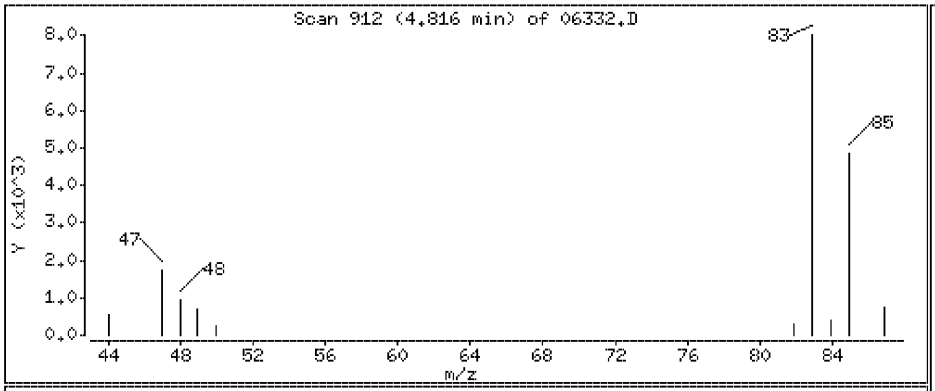
Operator: MJL

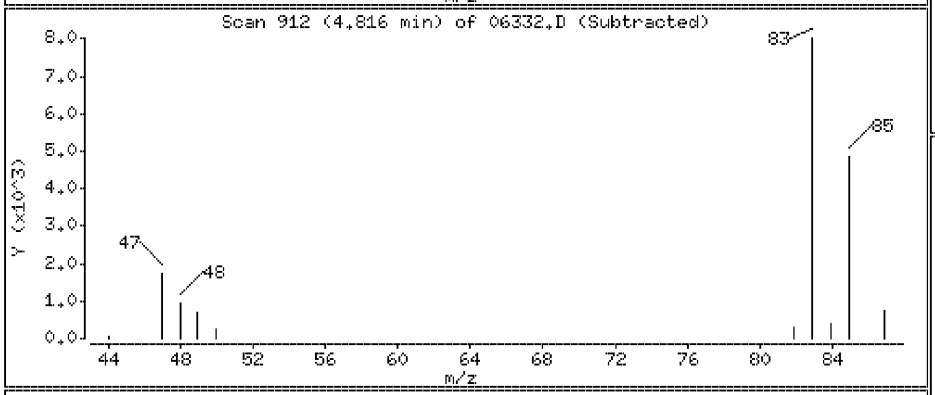
Column phase: J&W DB-5

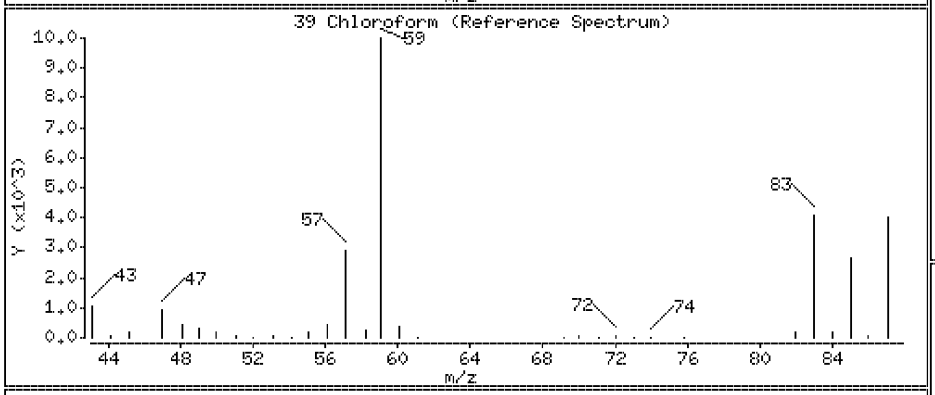
Column diameter: 0.32

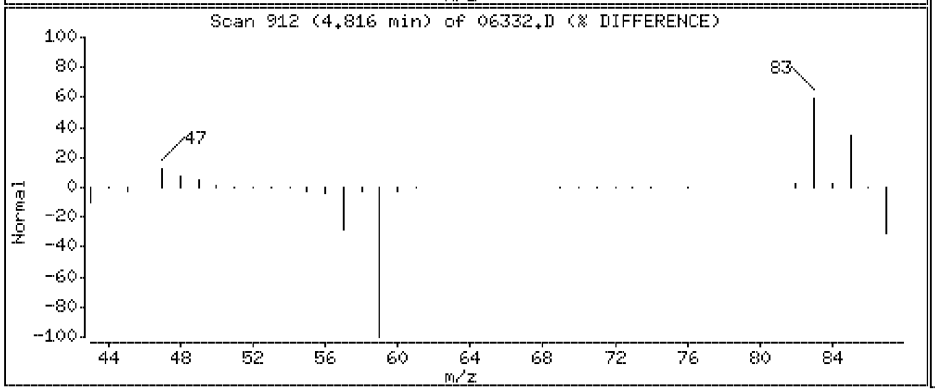
39 Chloroform

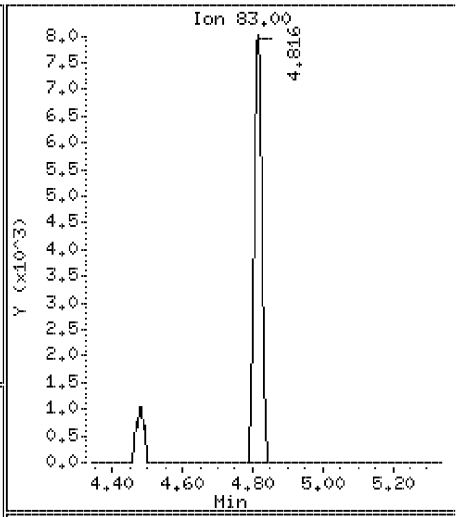
Concentration: 0.785 ppbv

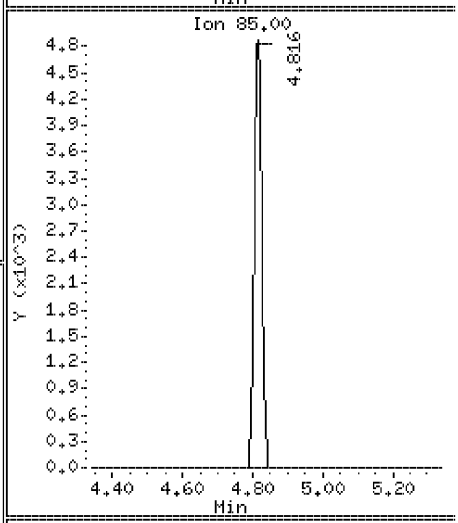


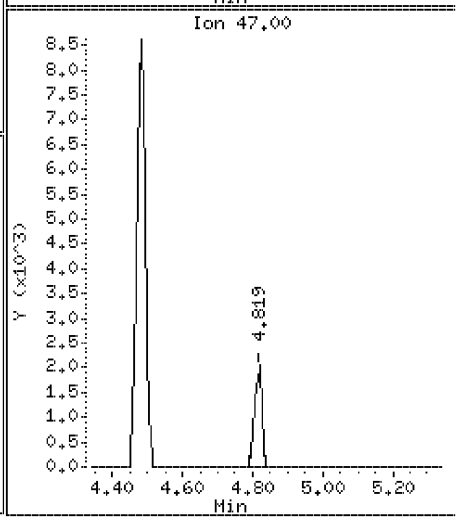












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

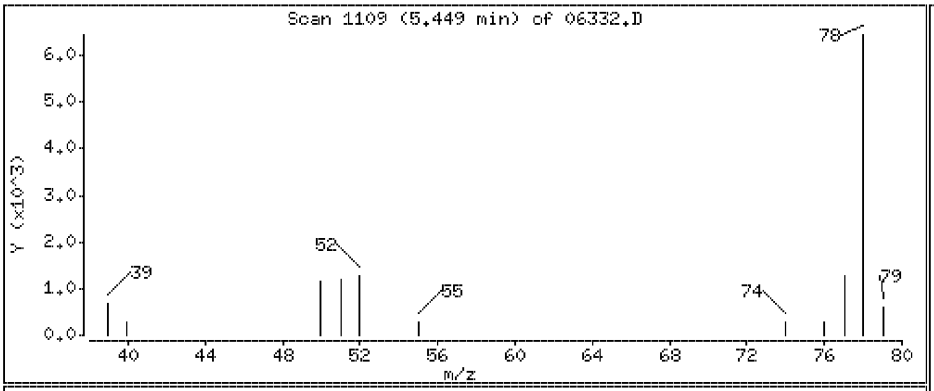
Operator: MJL

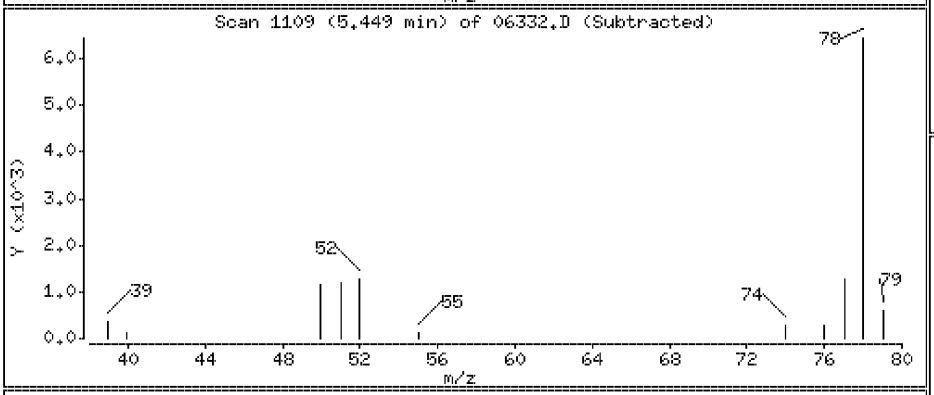
Column phase: J&W DB-5

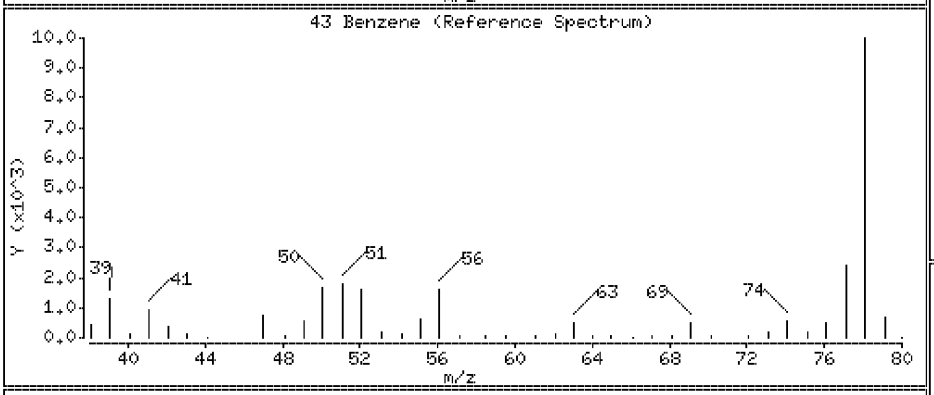
Column diameter: 0.32

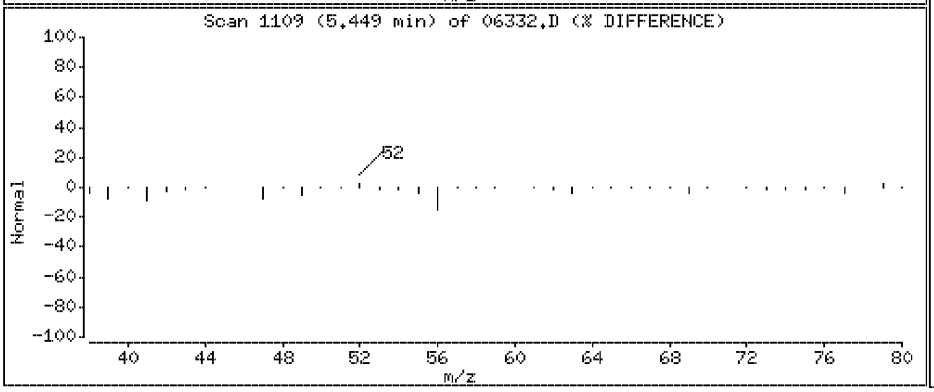
43 Benzene

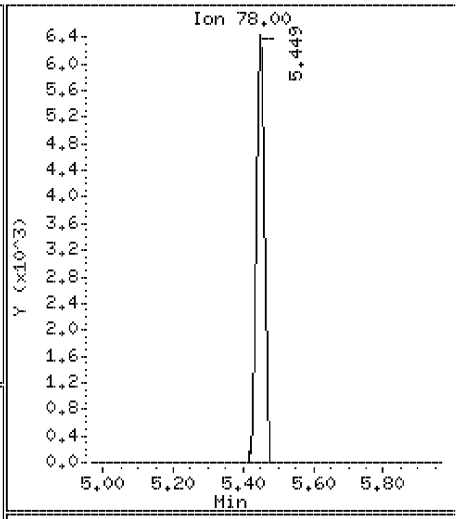
Concentration: 0.453 ppbv

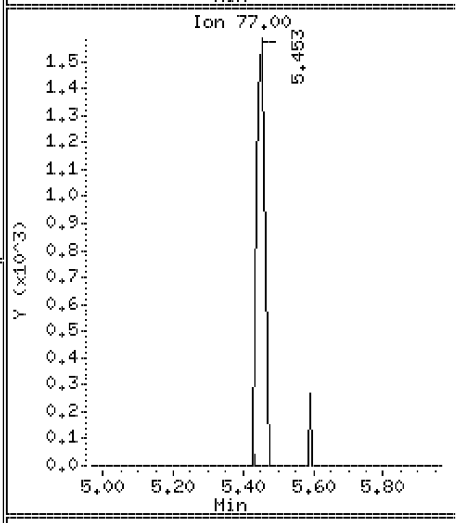


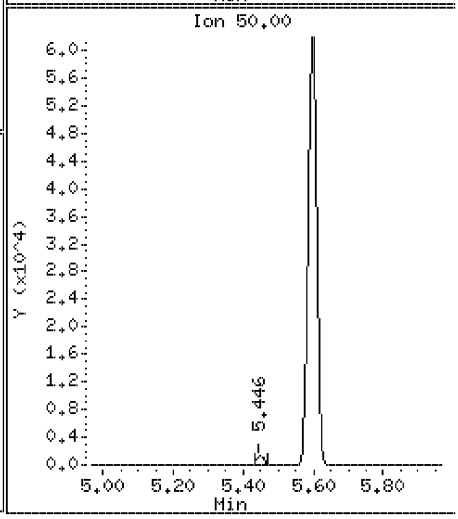












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

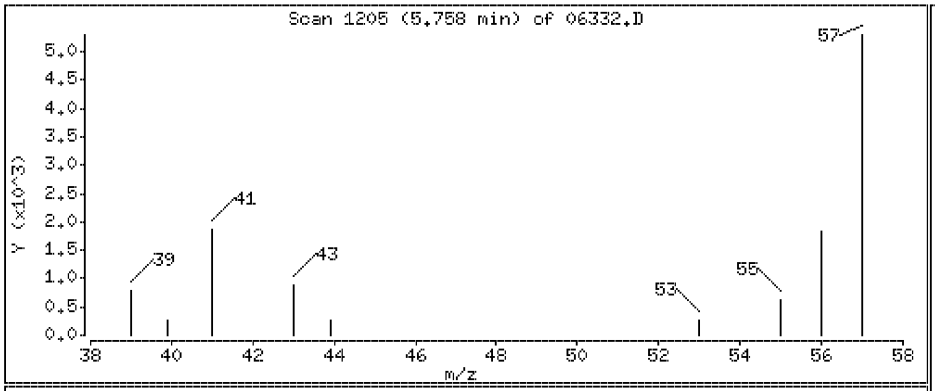
Operator: MJL

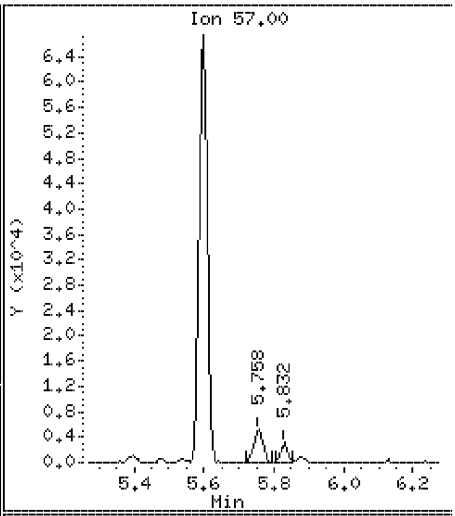
Column phase: J&W DB-5

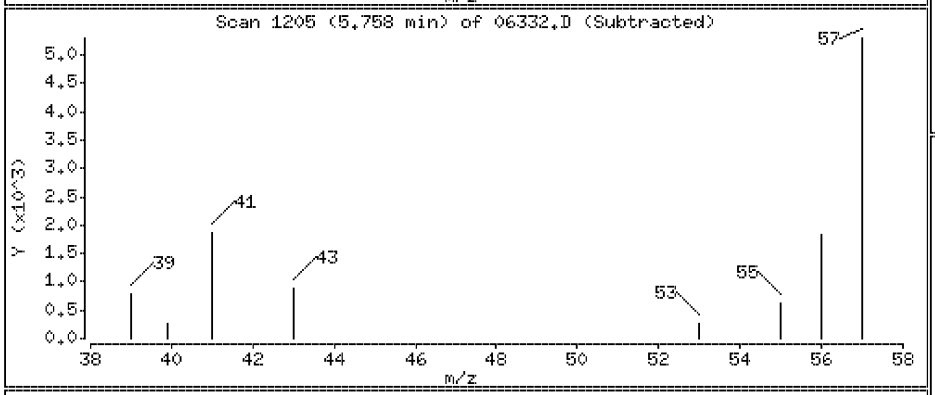
Column diameter: 0.32

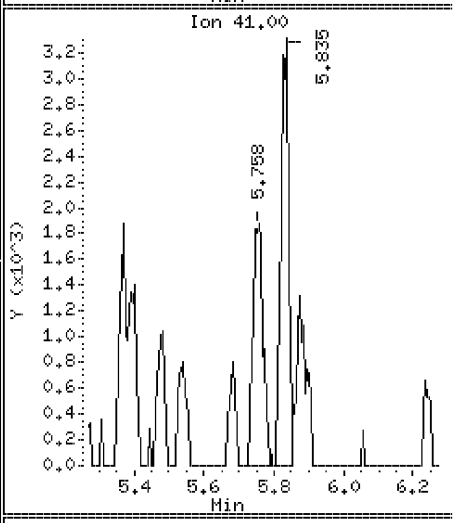
48 2,2,4-Trimethylpentane

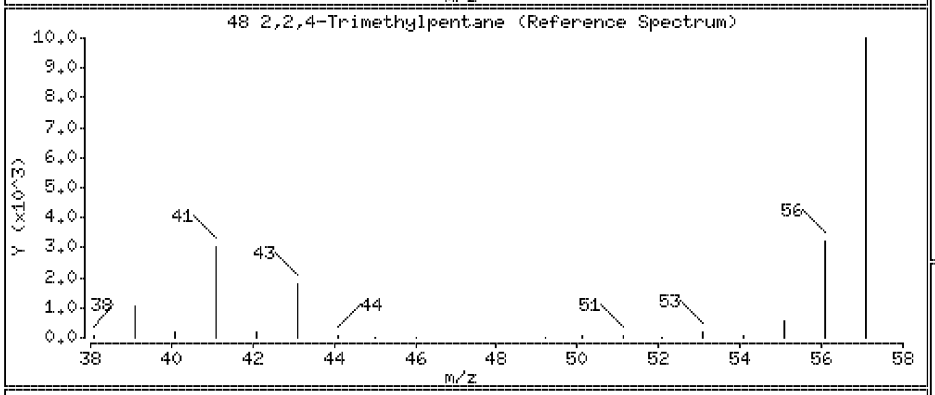
Concentration: 0.265 ppbv

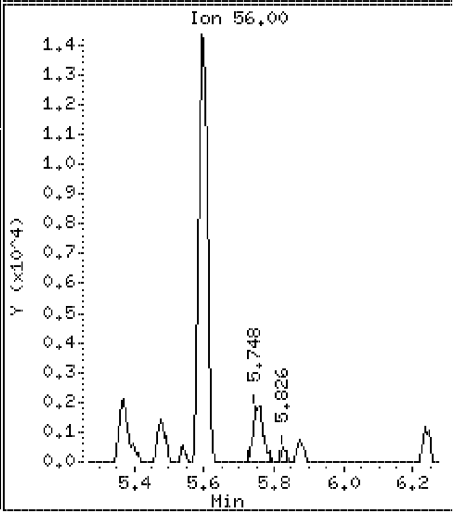


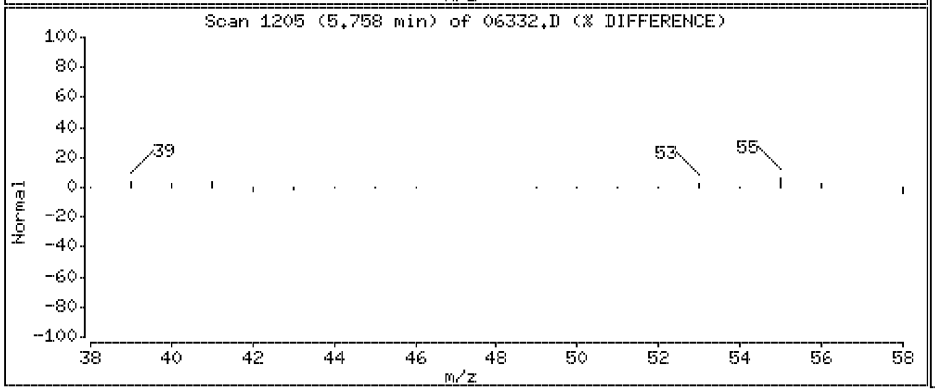












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

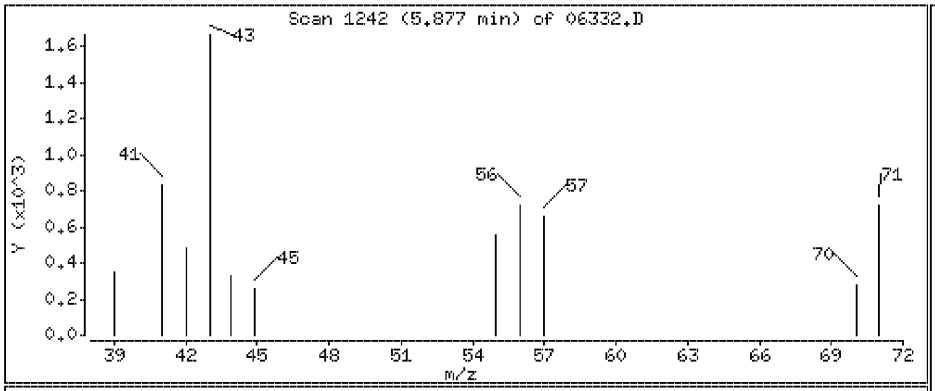
Operator: MJL

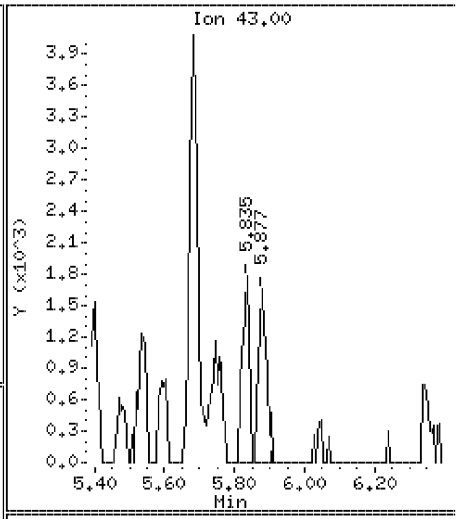
Column phase: J&W DB-5

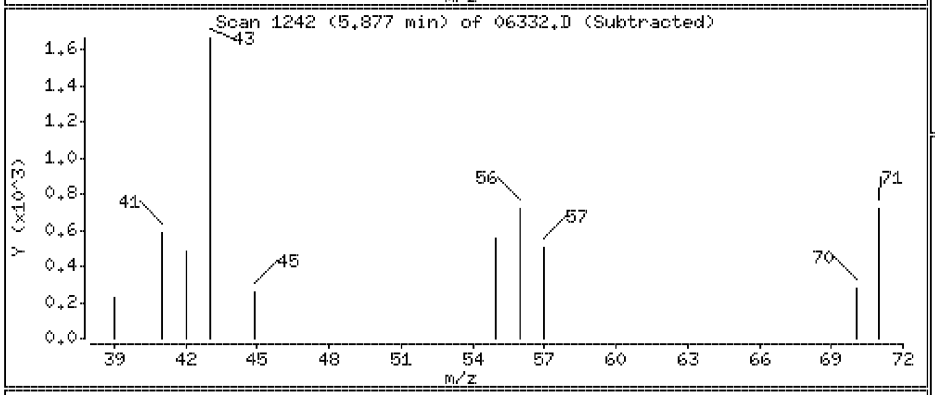
Column diameter: 0.32

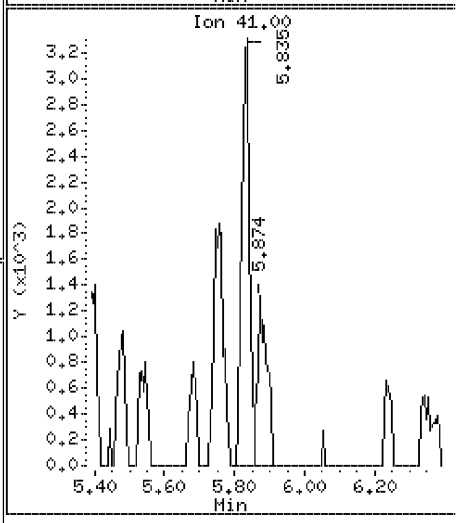
49 Heptane

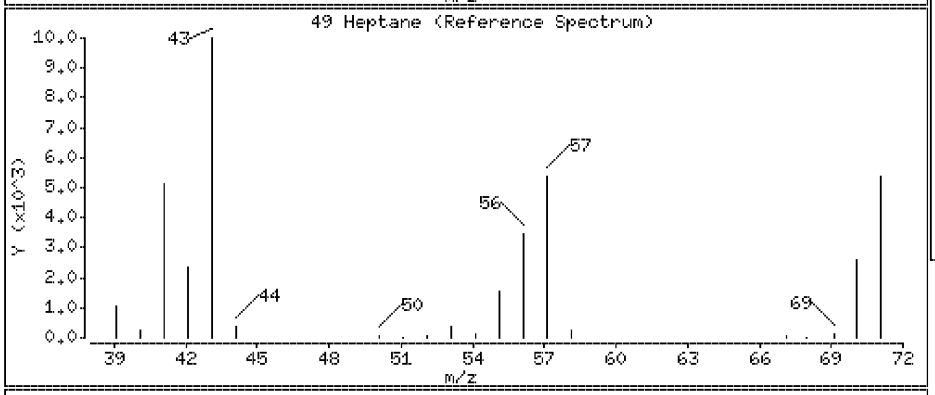
Concentration: 0.197 ppbv

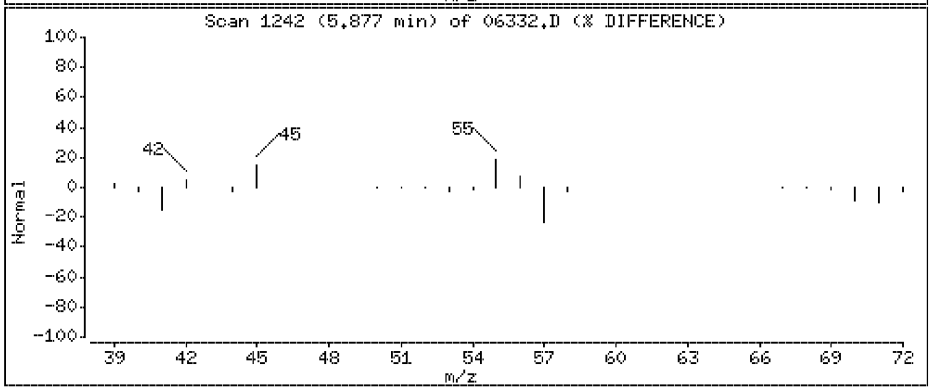












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

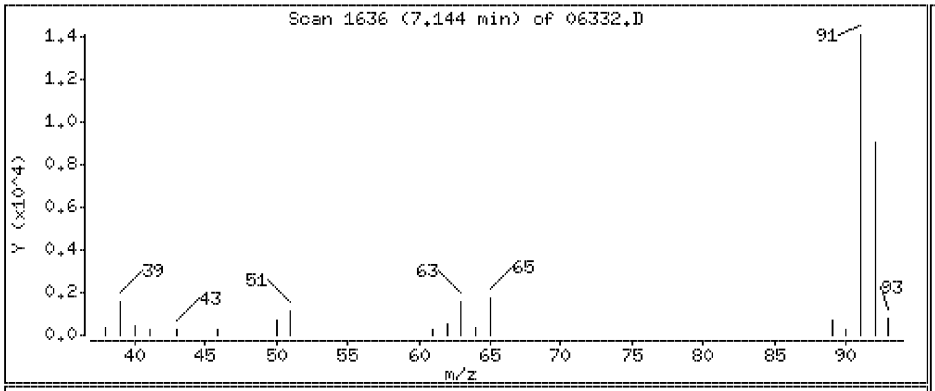
Operator: MJL

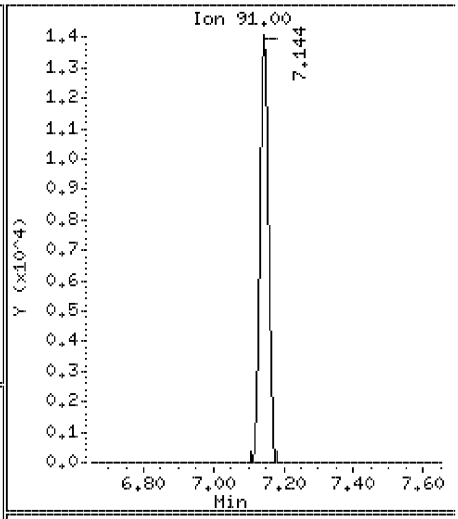
Column phase: J&W DB-5

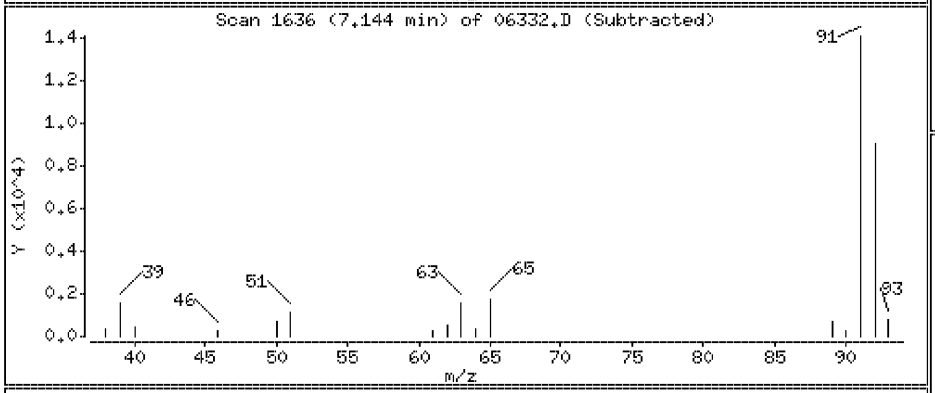
Column diameter: 0.32

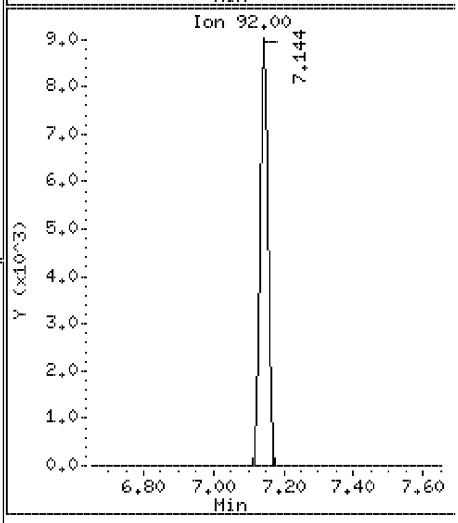
61 Toluene

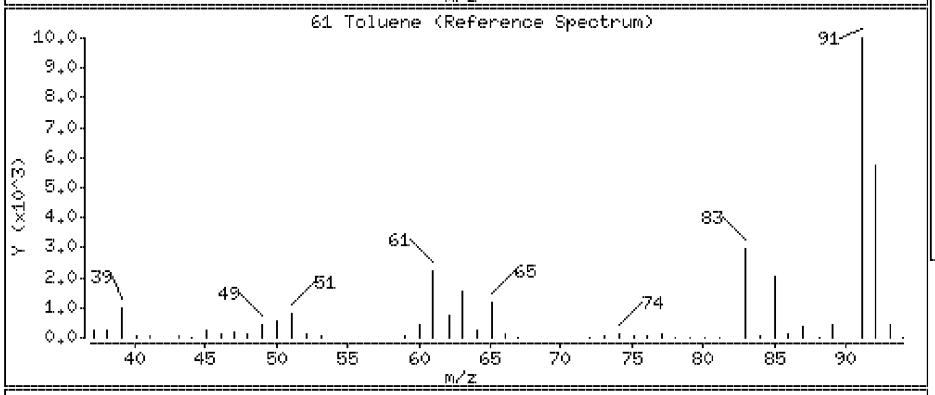
Concentration: 0.807 ppbv

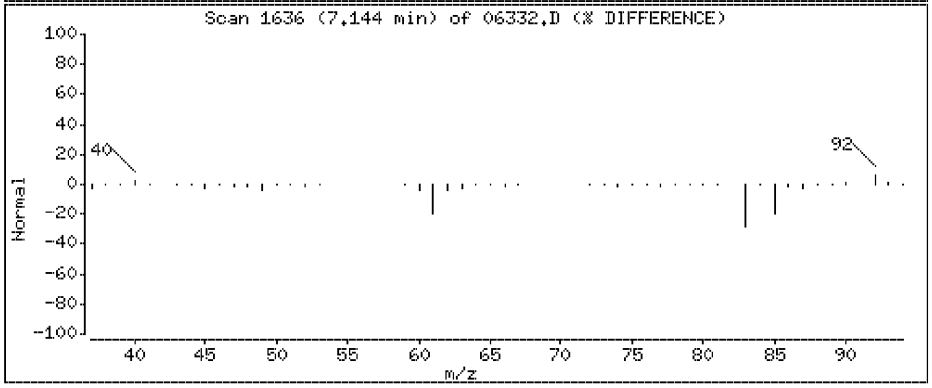












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

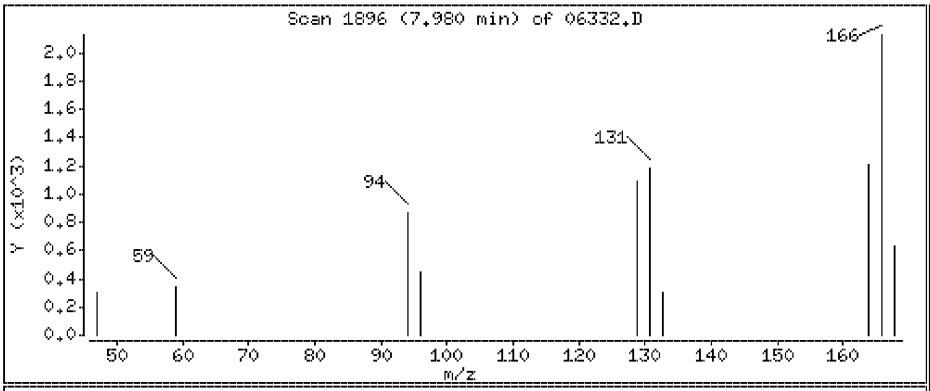
Operator: MJL

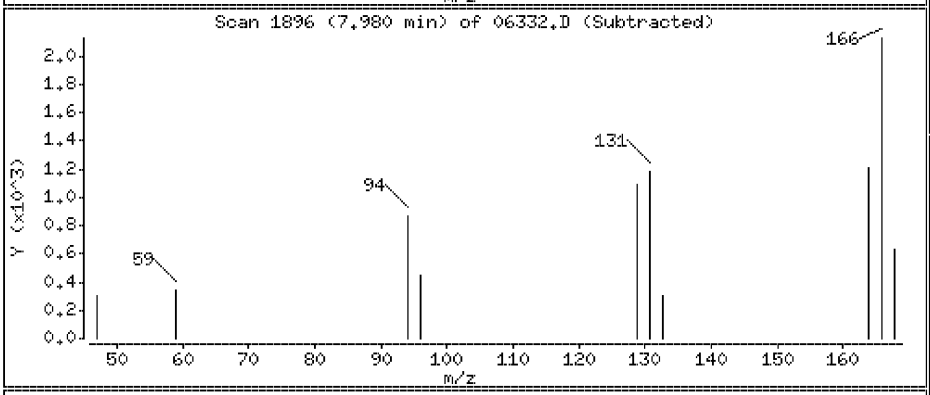
Column phase: J&W DB-5

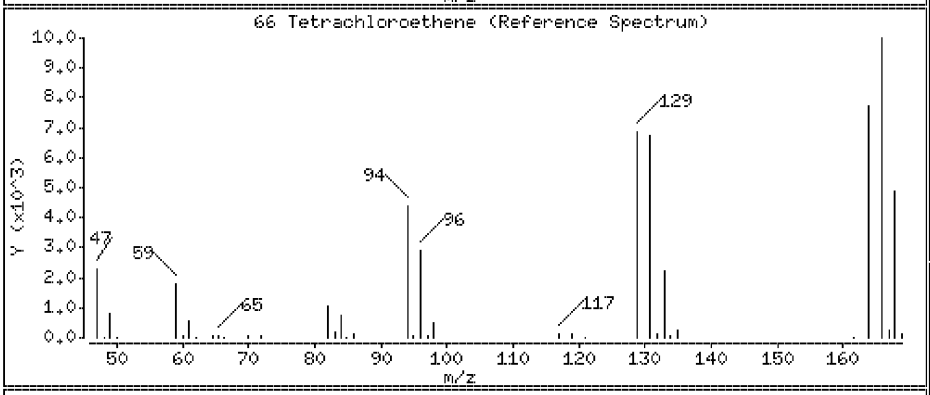
Column diameter: 0.32

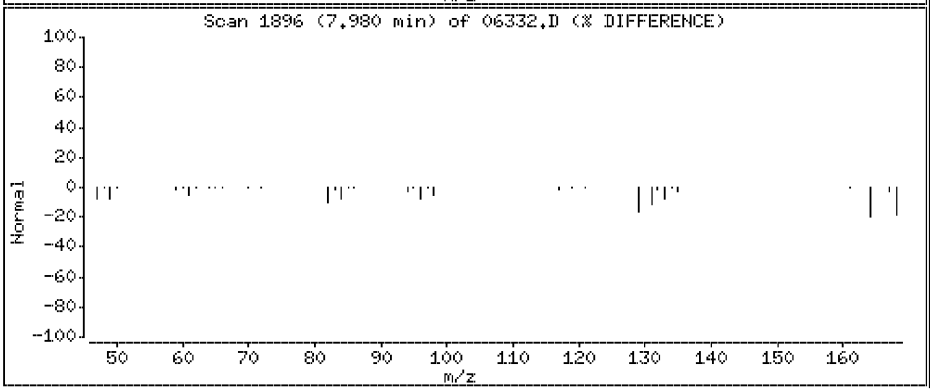
66 Tetrachloroethene

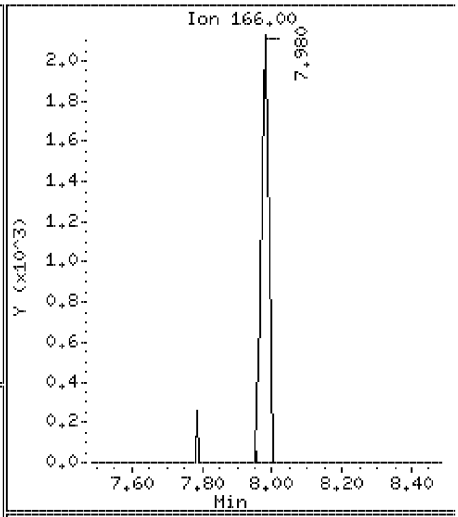
Concentration: 0.186 ppbv

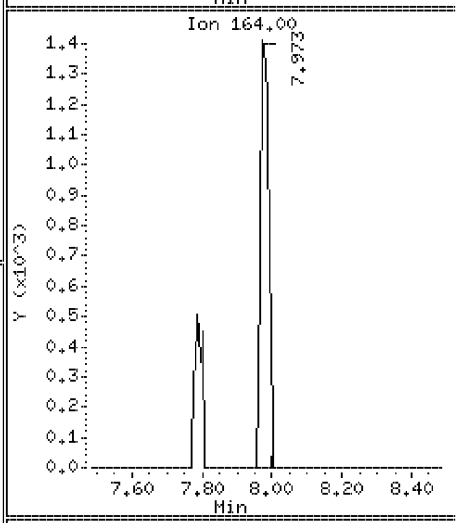


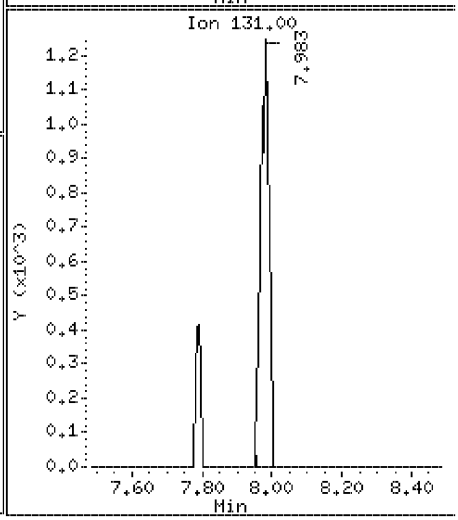












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

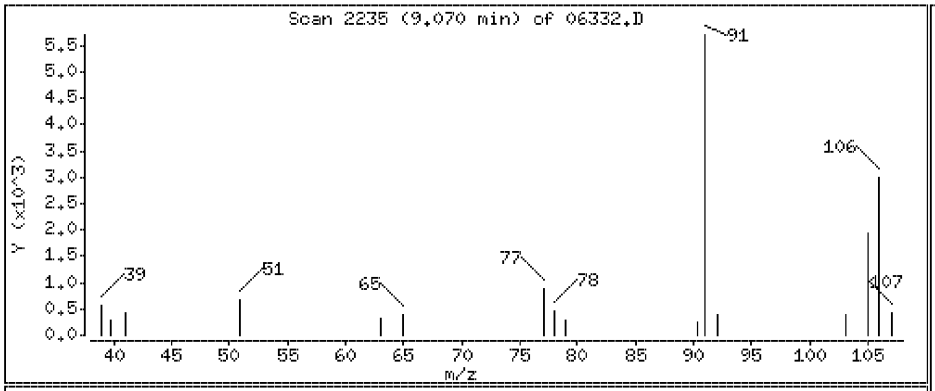
Operator: MJL

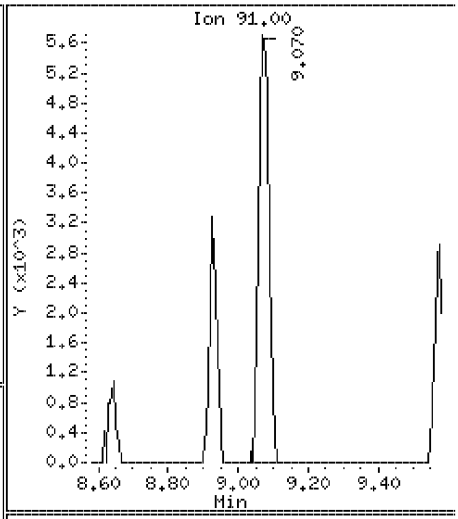
Column phase: J&W DB-5

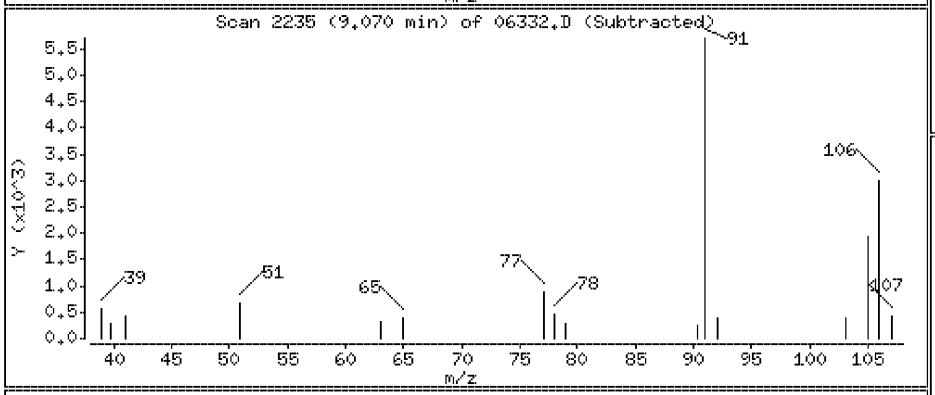
Column diameter: 0.32

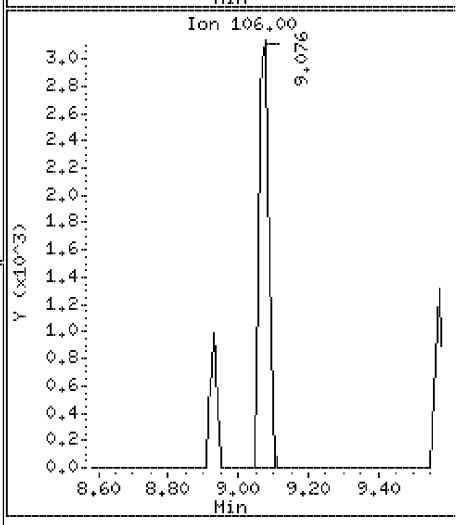
70 m&p-Xylene

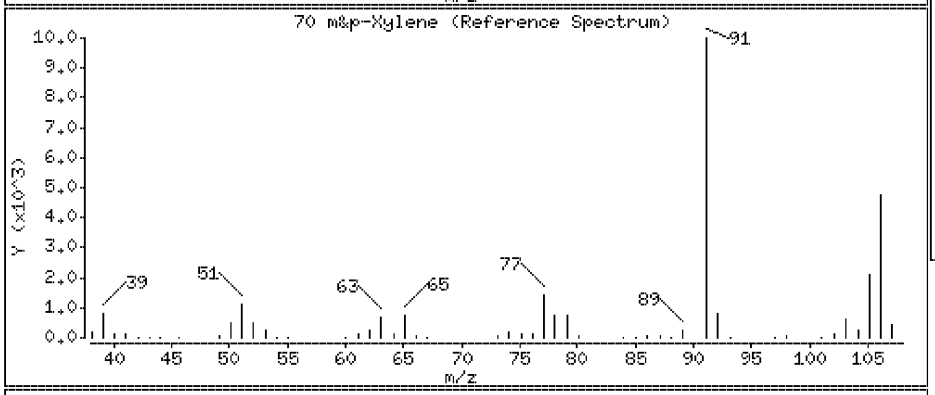
Concentration: 0.447 ppbv

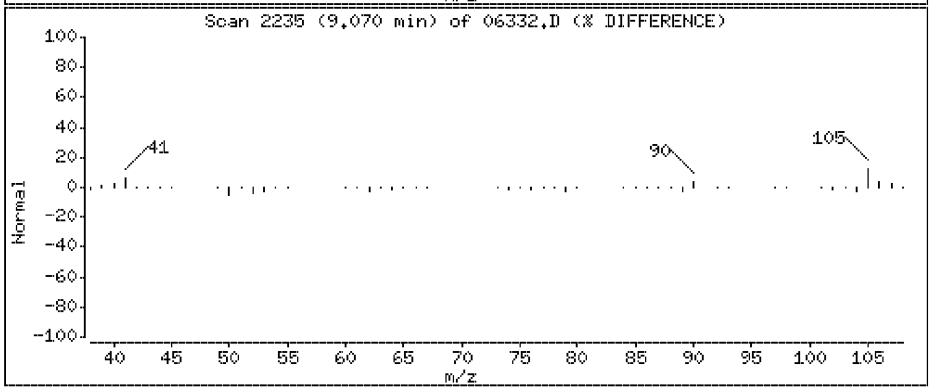












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

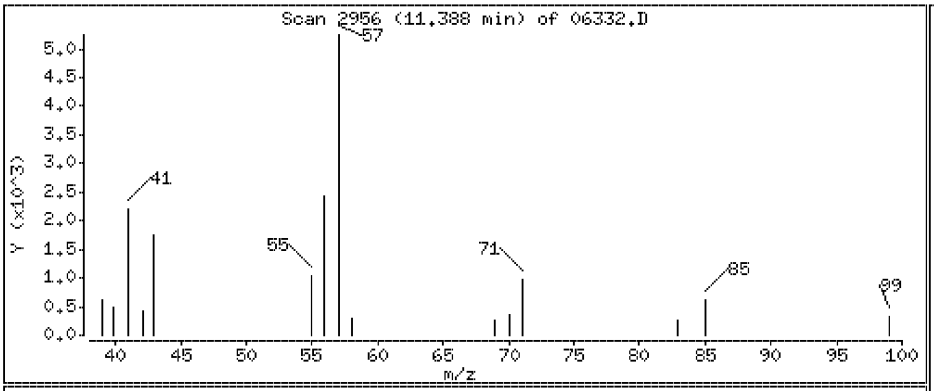
Operator: MJL

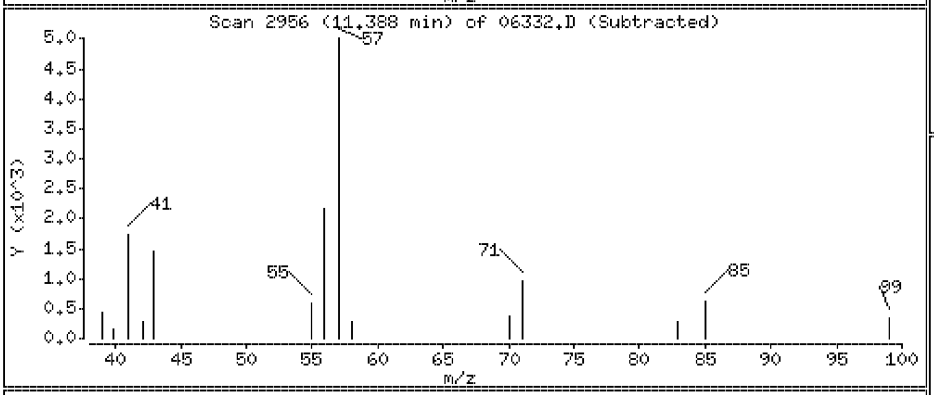
Column phase: J&W DB-5

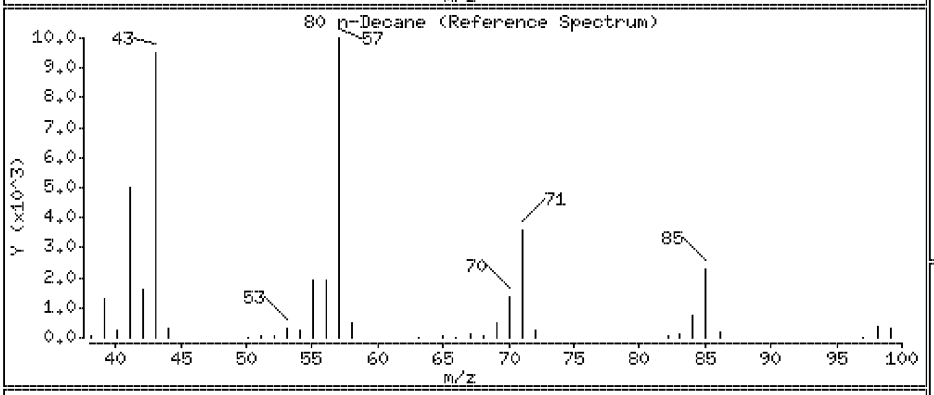
Column diameter: 0.32

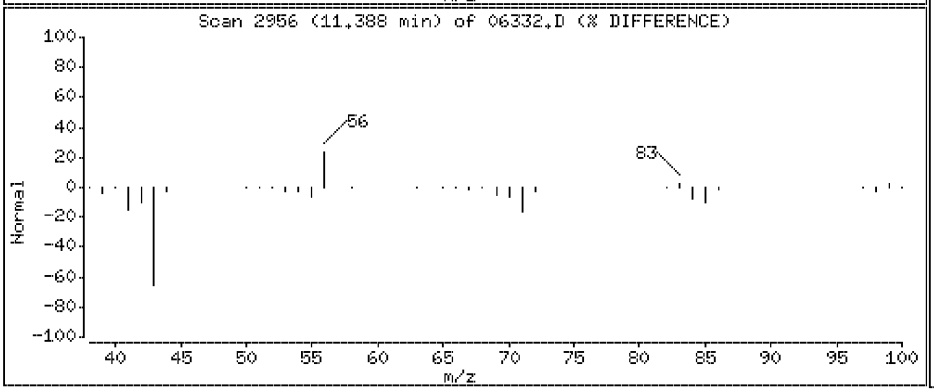
80 n-Decane

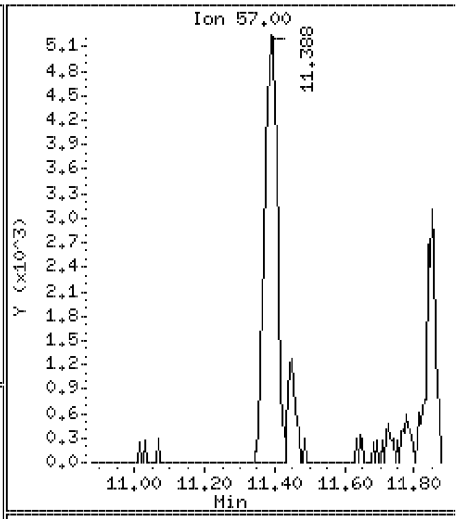
Concentration: 1.18 ppbv

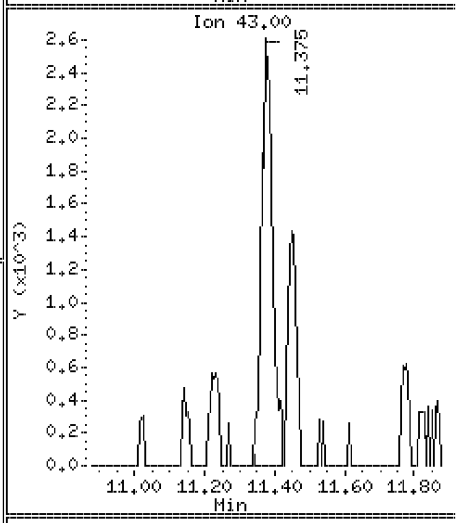


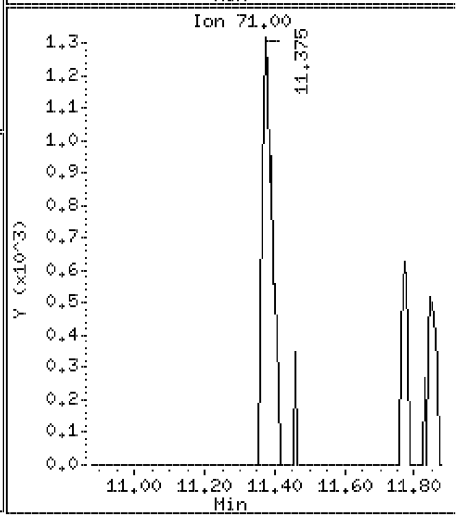












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06332.D

Date : 04-MAR-2017 22:47

Client ID:

Instrument: 10airB.i

Sample Info:

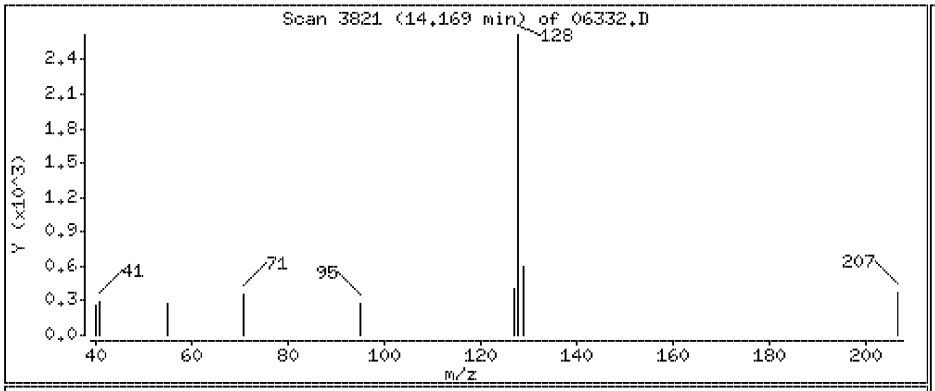
Operator: MJL

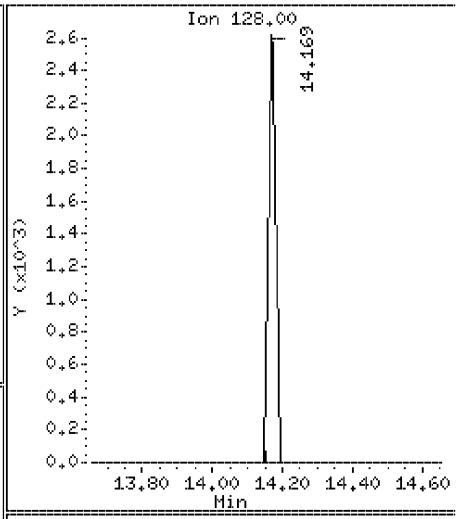
Column phase: J&W DB-5

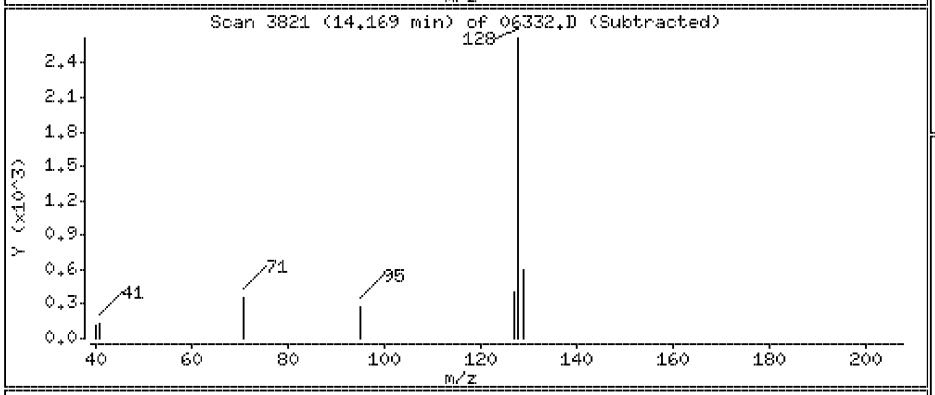
Column diameter: 0.32

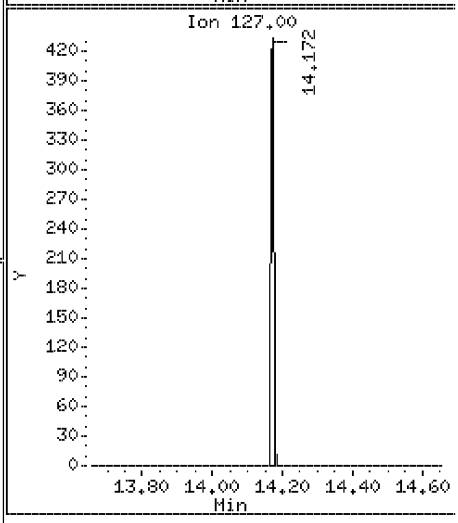
94 Naphthalene

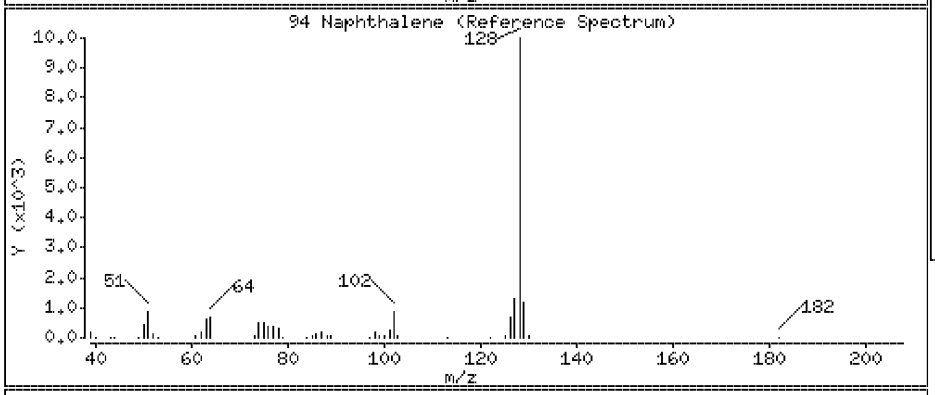
Concentration: 0.846 ppbv

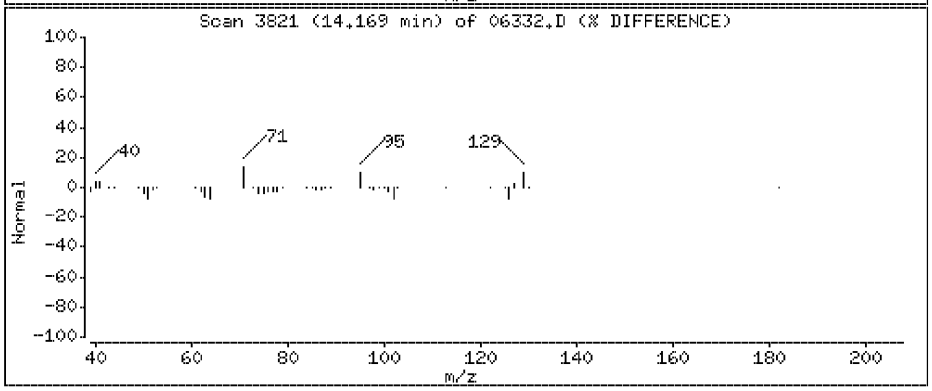






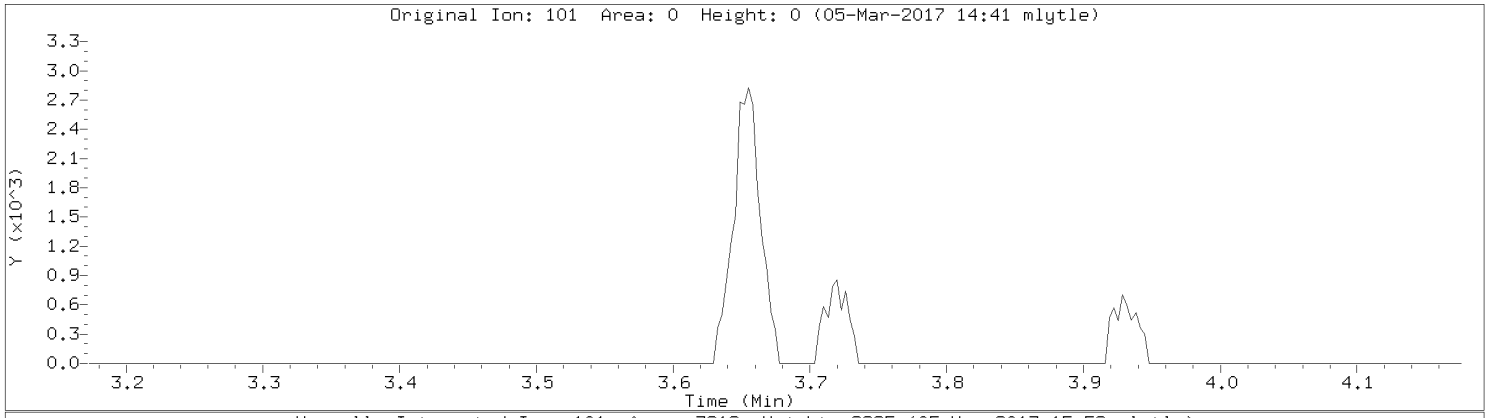


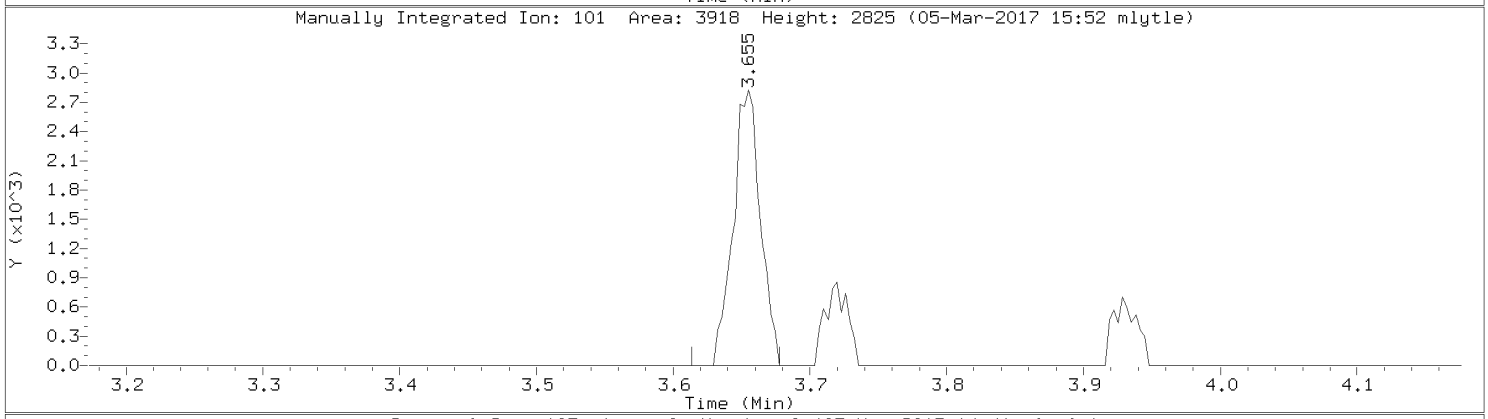


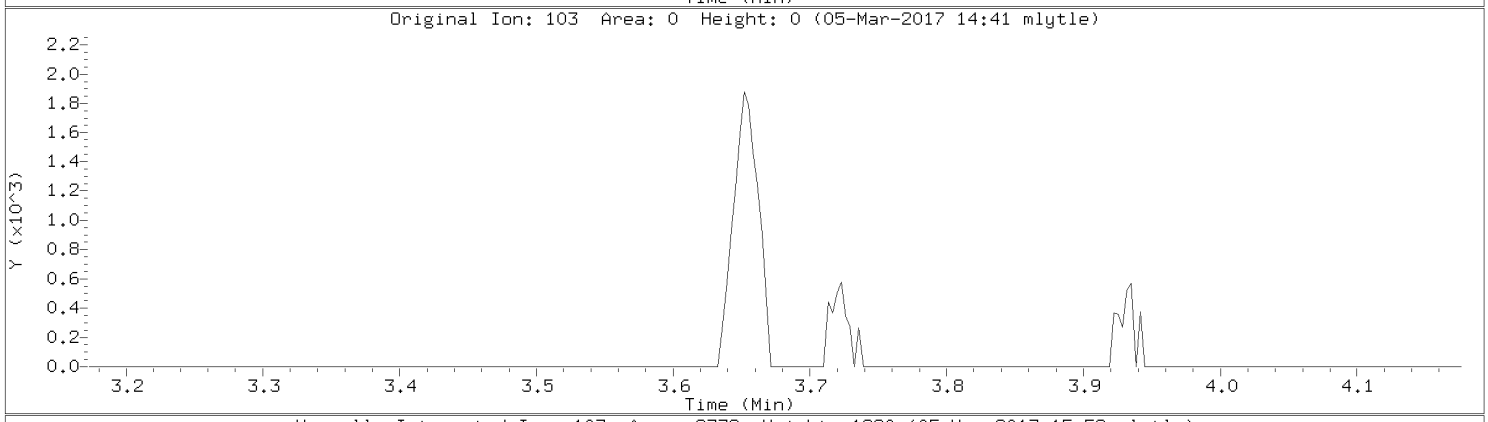


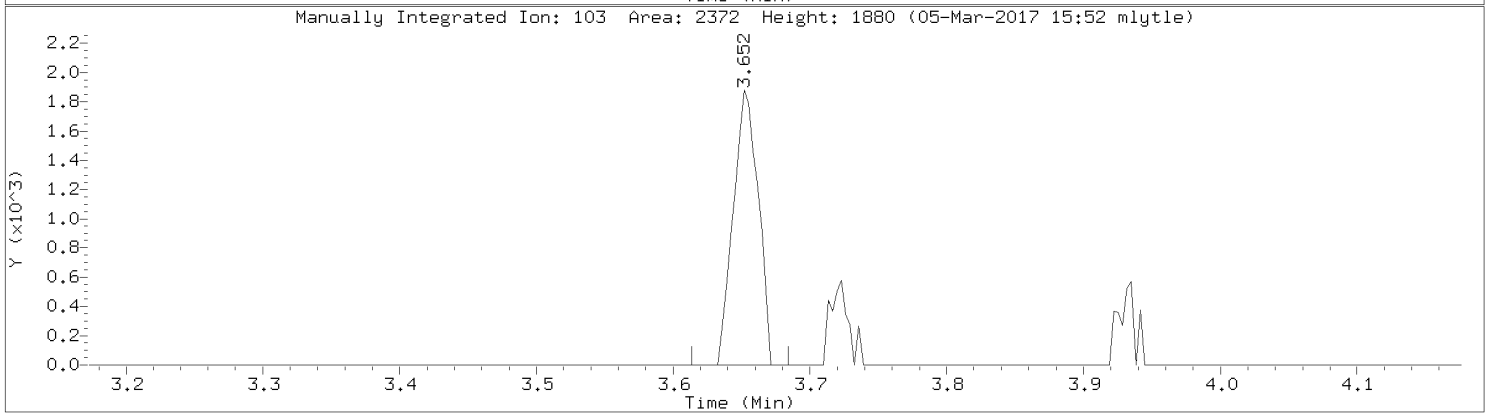
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06332.D
Injection Date: 04-MAR-2017 22:47
Instrument: 10airB.i
Lab Sample ID: 10379458005

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

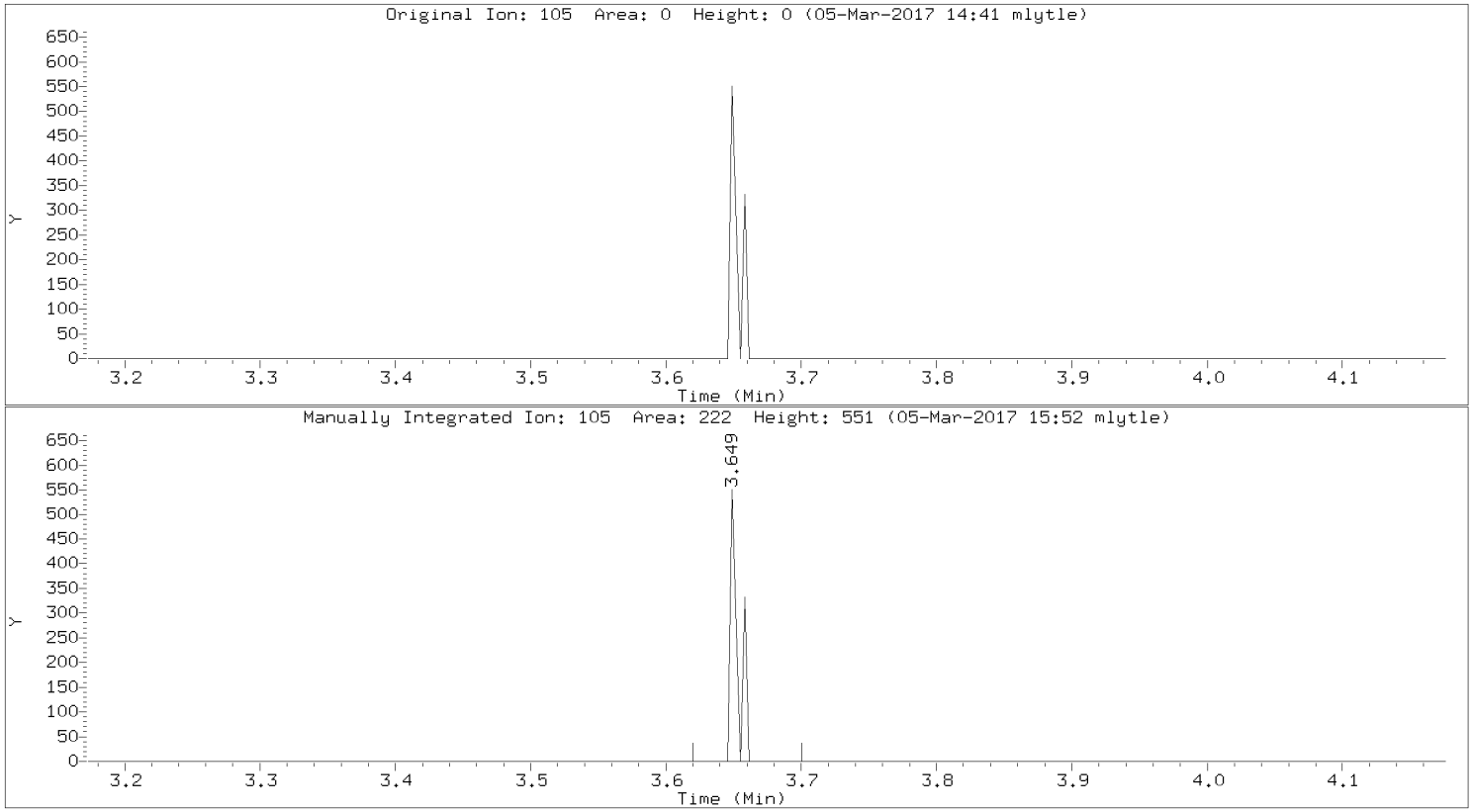








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06332.D
Injection Date: 04-MAR-2017 22:47
Instrument: 10airB.i
Lab Sample ID: 10379458005



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-D13_20170215 **Lab ID: 10379458005** Collected: 02/15/17 15:37 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**96.4**	ug/m3	4.8	0.46	1.92		03/04/17 22:47	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/04/17 22:47	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/04/17 22:47	79-34-5	
Tetrachloroethene	**1.3J**	ug/m3	1.3	0.53	1.92		03/04/17 22:47	127-18-4	
Toluene	**3.1**	ug/m3	1.5	0.30	1.92		03/04/17 22:47	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/04/17 22:47	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/04/17 22:47	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/04/17 22:47	79-00-5	
Trichloroethene	**<0.53**	ug/m3	1.1	0.53	1.92		03/04/17 22:47	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.2	0.25	1.92		03/04/17 22:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/04/17 22:47	76-13-1	
1,2,4-Trimethylbenzene	**<0.24**	ug/m3	1.9	0.24	1.92		03/04/17 22:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/04/17 22:47	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/04/17 22:47	75-01-4	
m&p-Xylene	**2.0J**	ug/m3	3.4	1.5	1.92		03/04/17 22:47	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/04/17 22:47	95-47-6	

Sample: SS-G18_20170215 **Lab ID: 10379458006** Collected: 02/15/17 15:31 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**28.1**	ug/m3	4.4	1.5	1.83		03/04/17 23:20	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 23:20	107-05-1	
Benzene	**0.96**	ug/m3	0.59	0.22	1.83		03/04/17 23:20	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 23:20	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 23:20	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 23:20	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 23:20	106-99-0	
2-Butanone (MEK)	**4.3J**	ug/m3	5.5	0.42	1.83		03/04/17 23:20	78-93-3	
Carbon disulfide	**0.71J**	ug/m3	1.2	0.18	1.83		03/04/17 23:20	75-15-0	
Carbon tetrachloride	**1.3**	ug/m3	1.2	0.35	1.83		03/04/17 23:20	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 23:20	108-90-7	
Chlorodifluoromethane	**0.86J**	ug/m3	1.3	0.51	1.83		03/04/17 23:20	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 23:20	75-00-3	
Chloroform	**39.4**	ug/m3	0.91	0.35	1.83		03/04/17 23:20	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/04/17 23:20	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 23:20	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/04/17 23:20	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 23:20	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 23:20	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 23:20	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 23:20	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 23:20	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-G18_20170215 **Lab ID: 10379458006** Collected: 02/15/17 15:31 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 23:20	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.8	0.88	1.83		03/04/17 23:20	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 23:20	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 23:20	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 23:20	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/04/17 23:20	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/04/17 23:20	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 23:20	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 23:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 23:20	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 23:20	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 23:20	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 23:20	123-91-1	
Ethylbenzene	**0.87J**	ug/m3	1.6	0.78	1.83		03/04/17 23:20	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.8	0.34	1.83		03/04/17 23:20	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 23:20	87-68-3	
n-Hexane	**13.0**	ug/m3	1.3	0.65	1.83		03/04/17 23:20	110-54-3	
2-Hexanone	**0.84J**	ug/m3	7.6	0.75	1.83		03/04/17 23:20	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 23:20	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 23:20	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 23:20	108-87-2	
Methylene Chloride	**81.3**	ug/m3	6.5	0.99	1.83		03/04/17 23:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.93J**	ug/m3	7.6	0.40	1.83		03/04/17 23:20	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 23:20	1634-04-4	
2-Propanol	**40.9**	ug/m3	4.6	0.44	1.83		03/04/17 23:20	67-63-0	
Styrene	**1.0J**	ug/m3	1.6	0.35	1.83		03/04/17 23:20	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 23:20	79-34-5	
Tetrachloroethene	**22.5**	ug/m3	1.3	0.51	1.83		03/04/17 23:20	127-18-4	
Toluene	**4.1**	ug/m3	1.4	0.28	1.83		03/04/17 23:20	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 23:20	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 23:20	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/04/17 23:20	79-00-5	
Trichloroethene	**2.7**	ug/m3	1.0	0.51	1.83		03/04/17 23:20	79-01-6	
Trichlorofluoromethane	**3.2**	ug/m3	2.1	0.24	1.83		03/04/17 23:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	**23.3**	ug/m3	2.9	0.55	1.83		03/04/17 23:20	76-13-1	
1,2,4-Trimethylbenzene	**2.3**	ug/m3	1.8	0.23	1.83		03/04/17 23:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 23:20	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 23:20	75-01-4	
m&p-Xylene	**3.3**	ug/m3	3.2	1.4	1.83		03/04/17 23:20	179601-23-1	
o-Xylene	**1.5J**	ug/m3	1.6	0.64	1.83		03/04/17 23:20	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D
Report Date: 05-Mar-2017 15:56

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06333.D
Lab Smp Id: 10379458006
Inj Date : 04-MAR-2017 23:20
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 33
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	2.996	3.028	(0.535)	553	0.13092	0.240	(QM)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.028	3.060	(0.541)	10804	0.25548	0.468	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.539	3.545	(0.632)	255500	60.7358	111	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.636	3.674	(0.650)	9630	0.30681	0.561	
17	Acrolein	56	3.664	3.684	(0.655)	1778	0.61325	1.12	
18	Acetone	43	3.709	3.722	(0.663)	115385	6.35194	11.6	
19	Isopropyl Alcohol	45	3.764	3.767	(0.673)	165841	8.95174	16.4	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	3.922	3.951	(0.701)	38677	1.63177	2.99	
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D
Report Date: 05-Mar-2017 15:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.963	3.957	(0.708)	5102	0.21423	0.392(Q)	
	25 Methylene chloride	49	3.980	4.005	(0.711)	161383	12.5872	23.0	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	4.082	4.127	(0.729)	2949	0.12213	0.223(M)	
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.430	4.391	(0.791)	15660	0.68808	1.26	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.475	4.491	(0.800)	373000	10.2403	10.2	
	33 Methyl Ethyl Ketone	72	4.552	4.555	(0.813)	3881	0.78469	1.44(Q)	
	34 n-Hexane	57	4.571	4.584	(0.817)	36276	1.98700	3.64(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.713	4.716	(0.842)	8511	0.36222	0.663(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.860)	102841	4.33589	7.93	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.446	5.468	(0.973)	5988	0.16217	0.297	
	44 Carbon tetrachloride	117	5.465	5.484	(0.976)	3018	0.10822	0.198	
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.613	(1.000)	1144882	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.970	5.989	(1.067)	5138	0.26710	0.489	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						(D)
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	6.536	6.529	(1.168)	3448	0.12244	0.224	
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.066	7.076	(1.263)	976682	9.53139	9.53	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.147	7.153	(1.277)	27319	0.59081	1.08	
	62 Methyl Butyl Ketone	43	7.375	7.372	(0.854)	2678	0.11021	0.202	
	63 n-Octane	43	7.568	7.584	(0.876)	10748	0.40844	0.747(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	47677	1.78470	3.27	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	769332	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	8.931	8.934	(1.034)	6061	0.10711	0.196	
	70 m&p-Xylene	91	9.073	9.082	(1.050)	18331	0.41274	0.755	
	71 n-Nonane	43	9.468	9.468	(1.096)	6162	0.26900	0.492	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.503	9.507	(1.100)	1889	0.12574	0.230(M)	
	74 o-Xylene	91	9.574	9.581	(1.108)	8596	0.19025	0.348	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D
Report Date: 05-Mar-2017 15:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.902	10.912	(1.262)	2700	0.13967	0.256(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.397	11.378	(2.036)	21323	0.94876	1.74(QM)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.507	11.513	(1.332)	11274	0.24669	0.451	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	450868	10.6387	10.6	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.156	(1.641)	6704	0.54913	1.00	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D
Report Date: 05-Mar-2017 15:56

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06333.D
Lab Smp Id: 10379458006
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

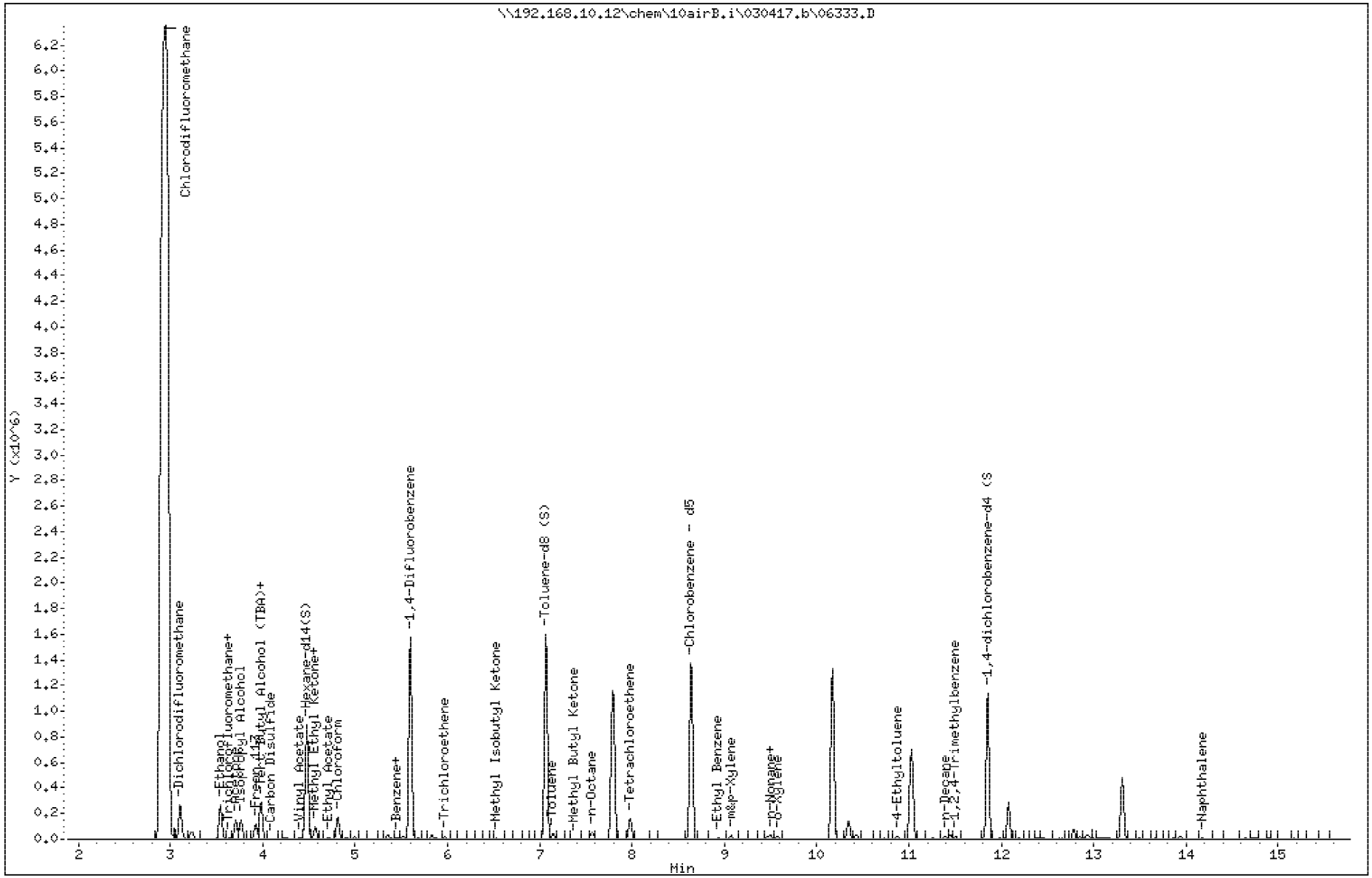
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1144882	-19.04
67 Chlorobenzene - d	951026	570616	1331436	769332	-19.11

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.28
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D
Date : 04-MAR-2017 23:20
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

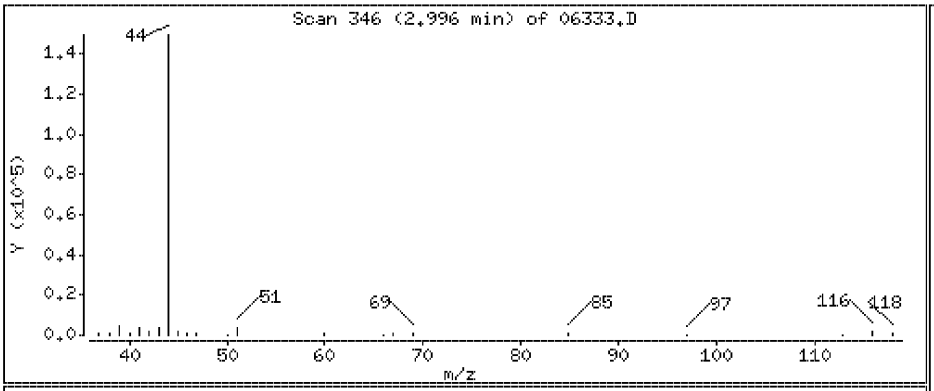
Operator: MJL

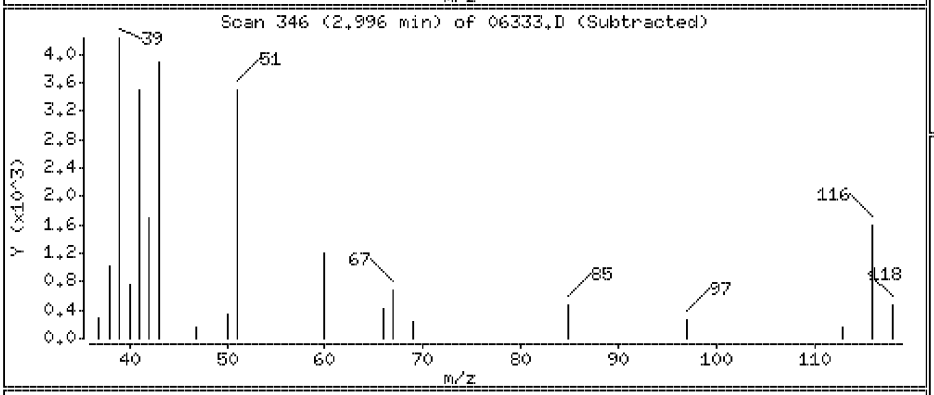
Column phase: J&W DB-5

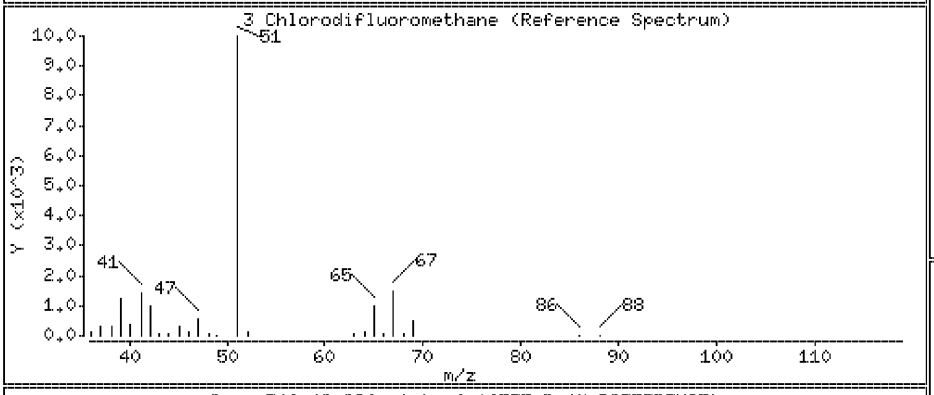
Column diameter: 0.32

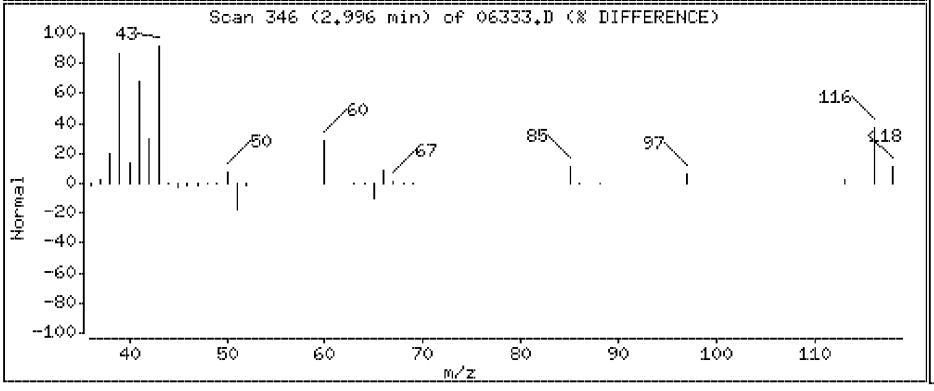
3 Chlorodifluoromethane

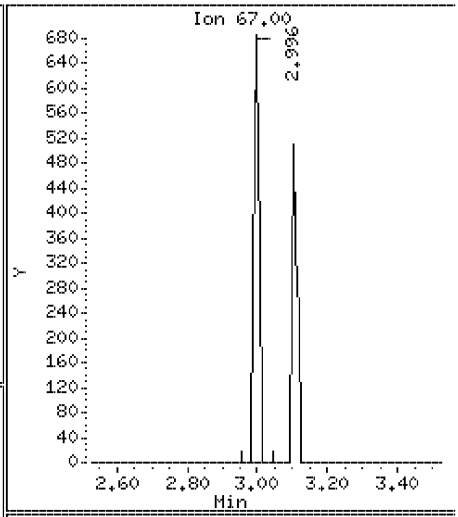
Concentration: 0.240 ppbv

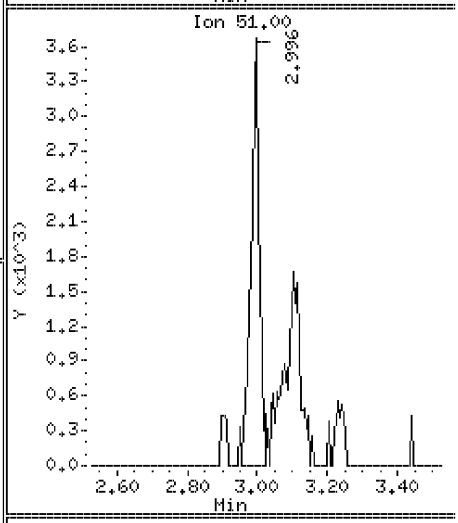


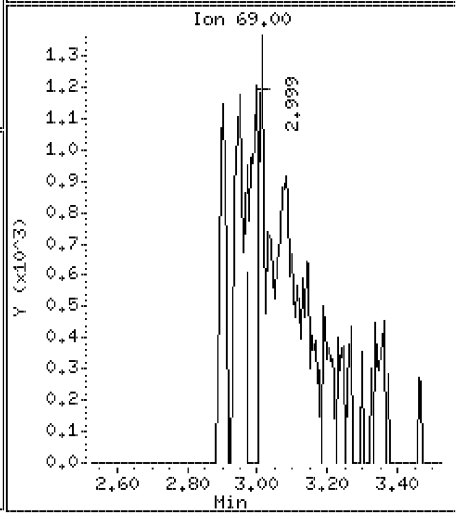












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

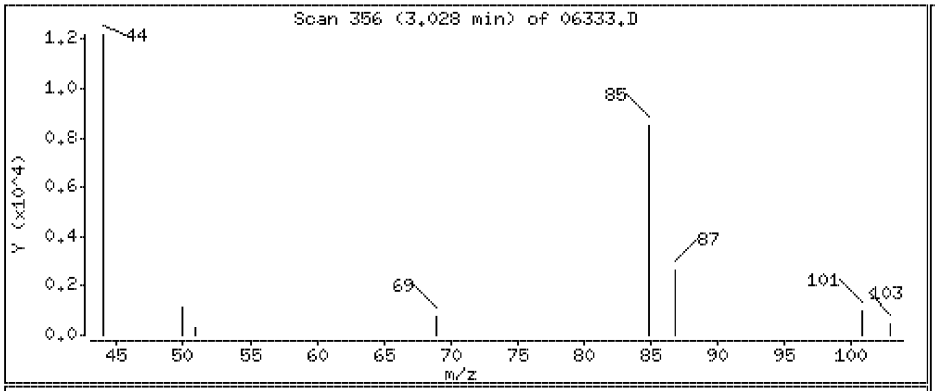
Operator: MJL

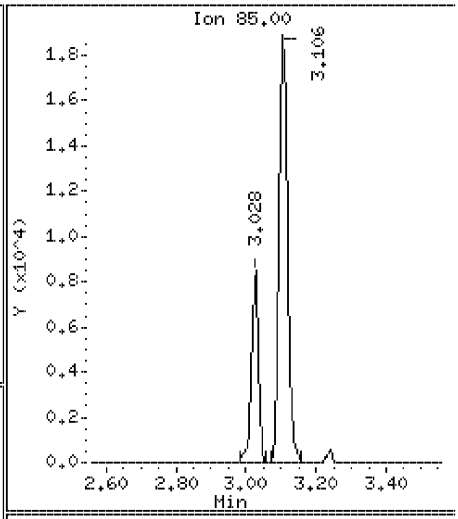
Column phase: J&W DB-5

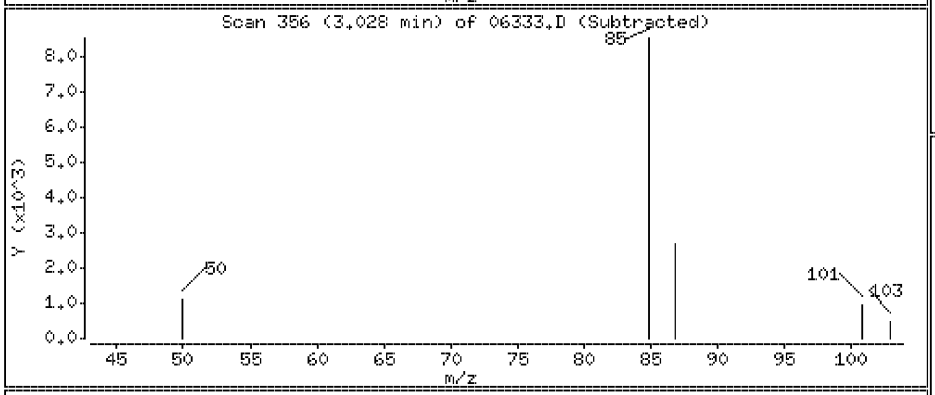
Column diameter: 0.32

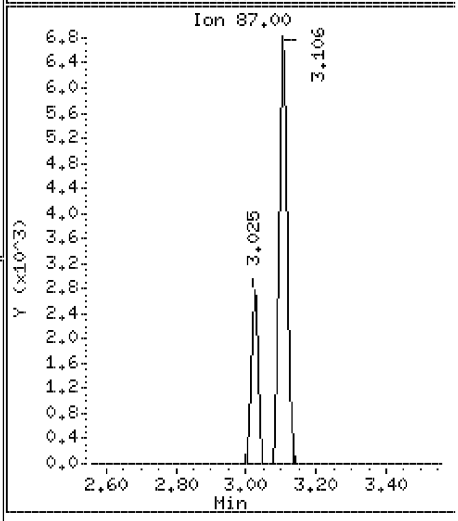
5 Dichlorodifluoromethane

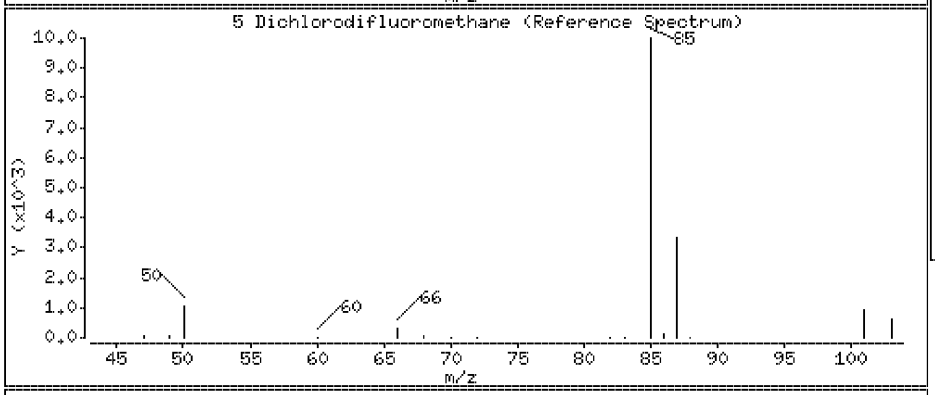
Concentration: 0.468 ppbv

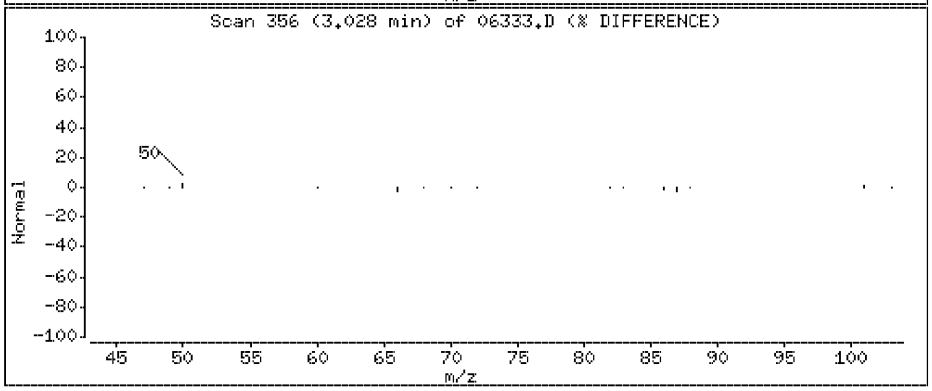












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

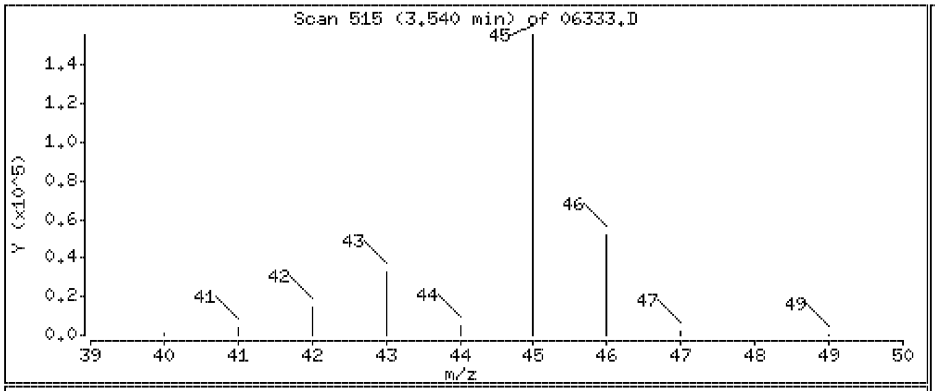
Operator: MJL

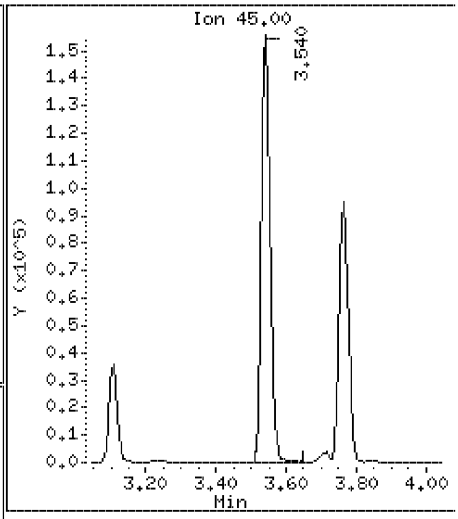
Column phase: J&W DB-5

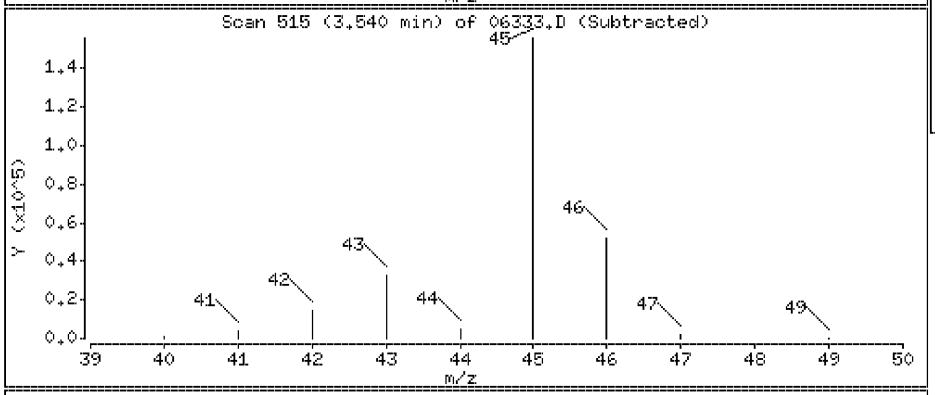
Column diameter: 0.32

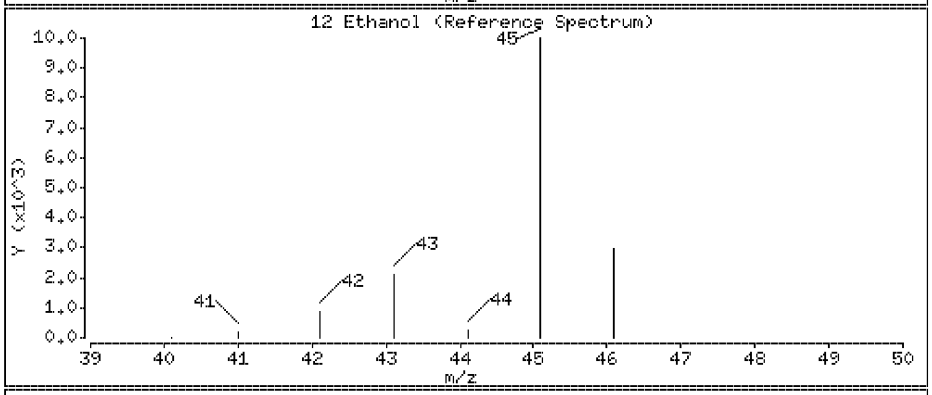
12 Ethanol

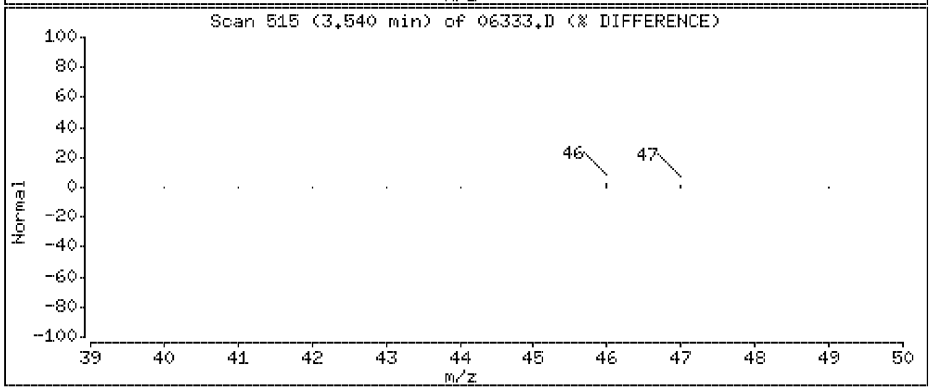
Concentration: 111 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

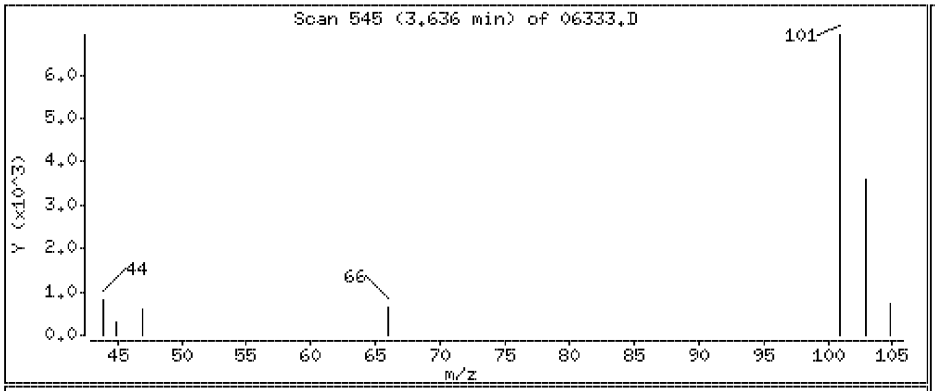
Operator: MJL

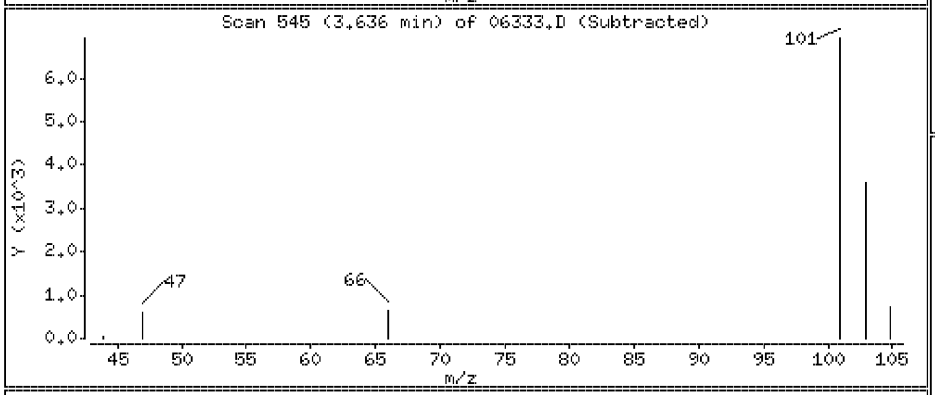
Column phase: J&W DB-5

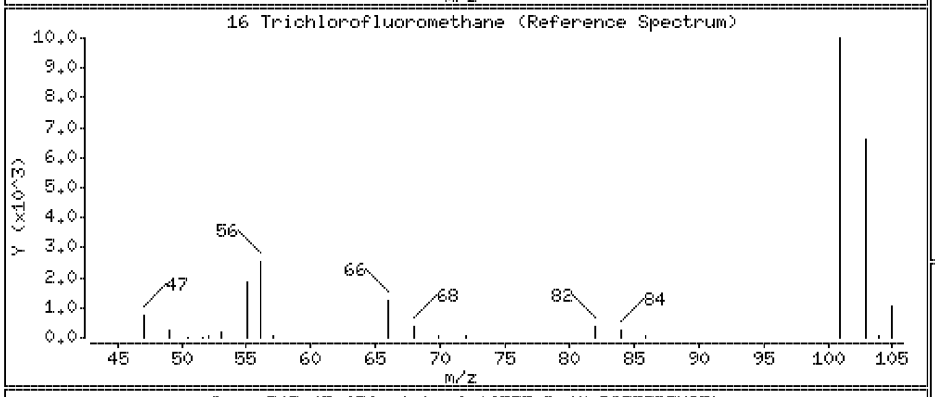
Column diameter: 0.32

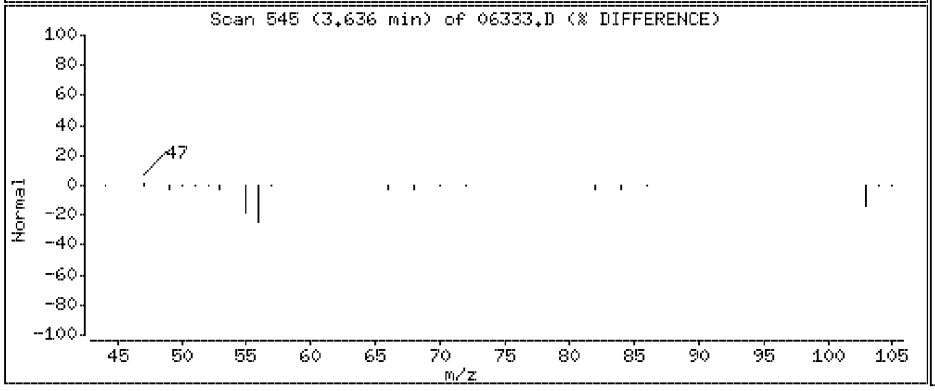
16 Trichlorofluoromethane

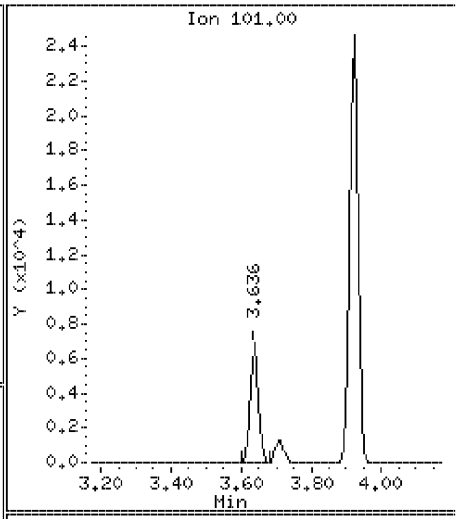
Concentration: 0.561 ppbv

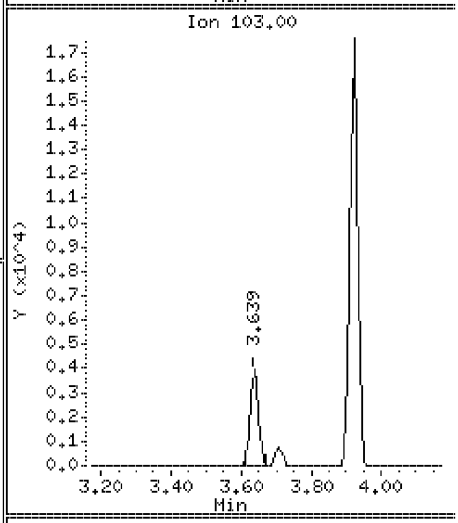


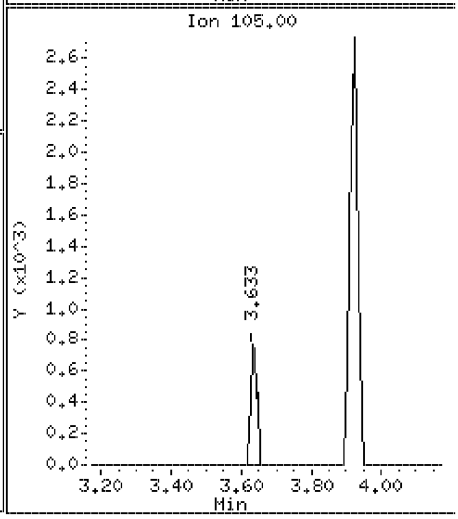












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

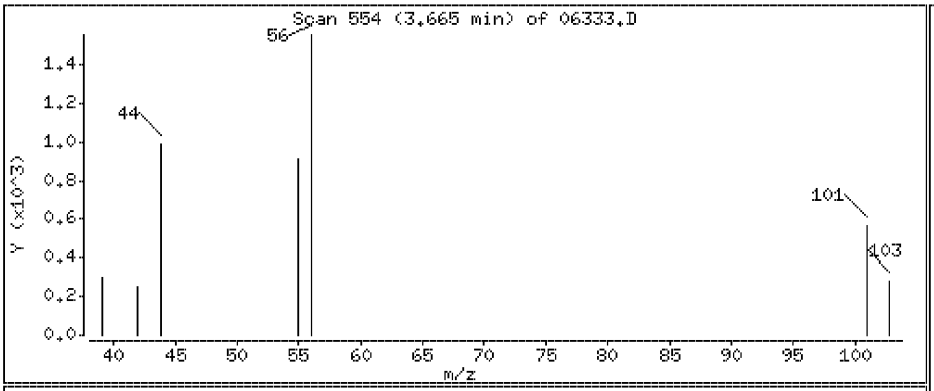
Operator: MJL

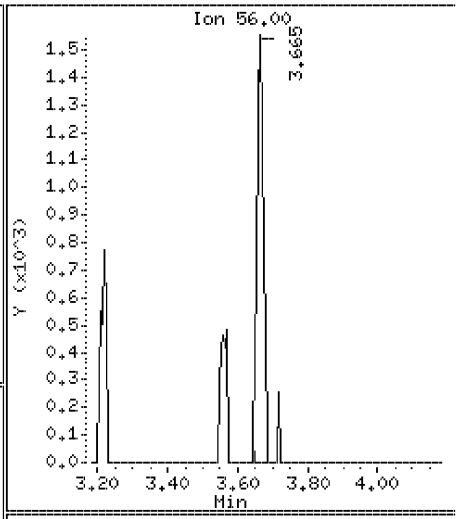
Column phase: J&W DB-5

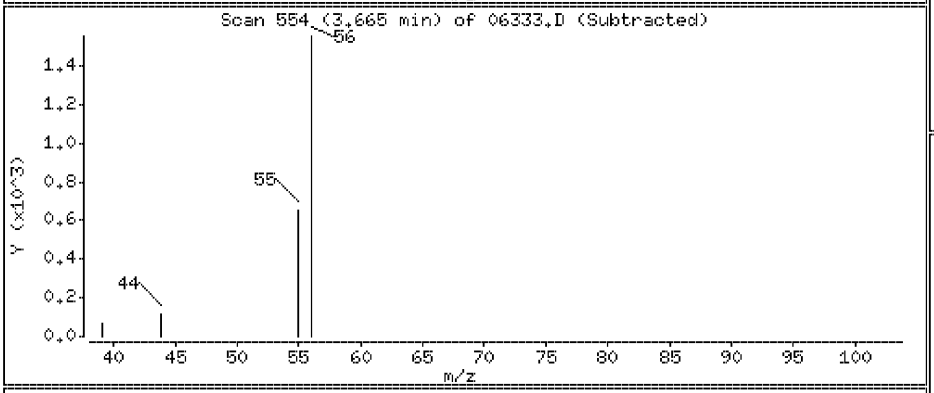
Column diameter: 0.32

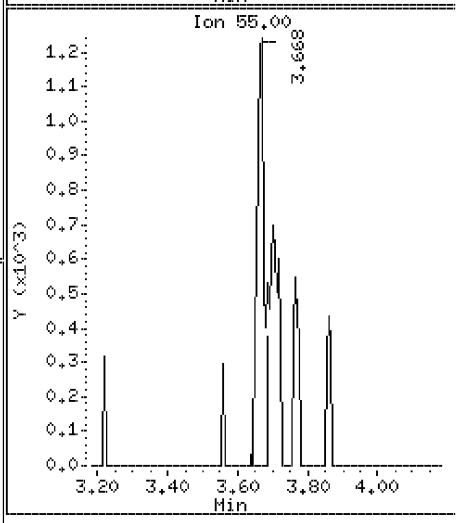
17 Acrolein

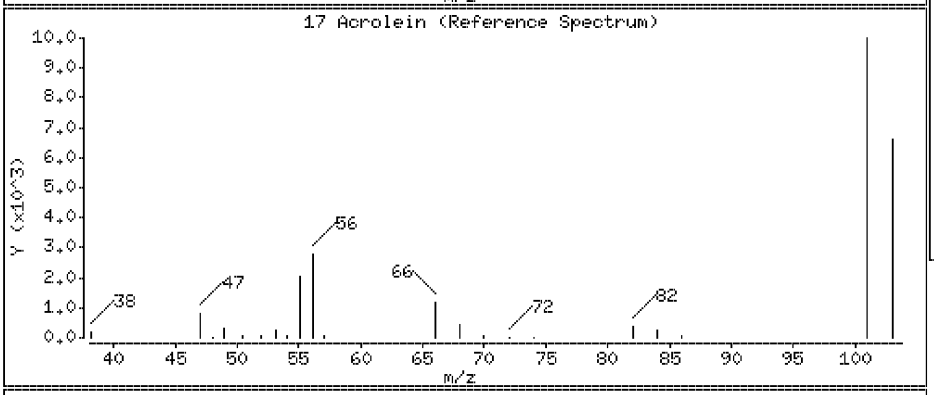
Concentration: 1.12 ppbv

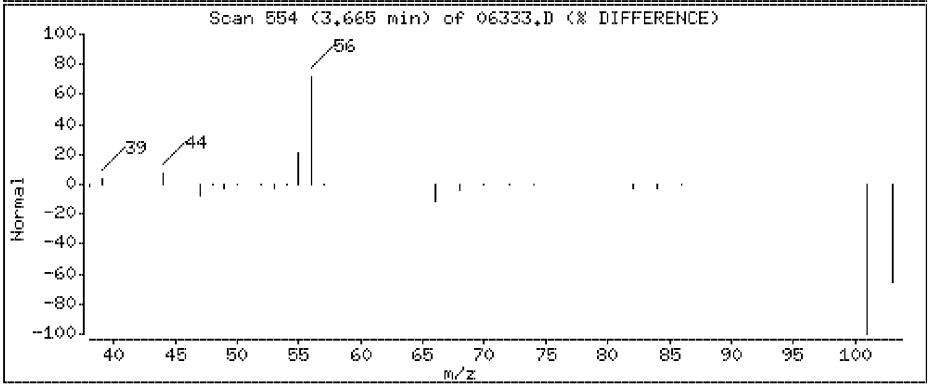












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

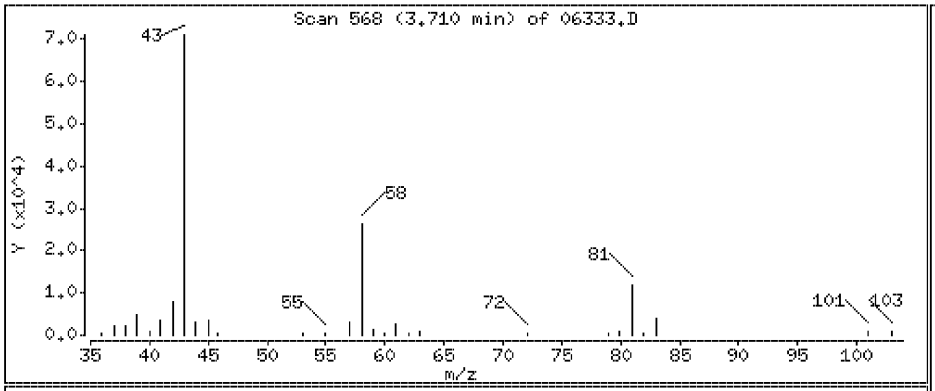
Operator: MJL

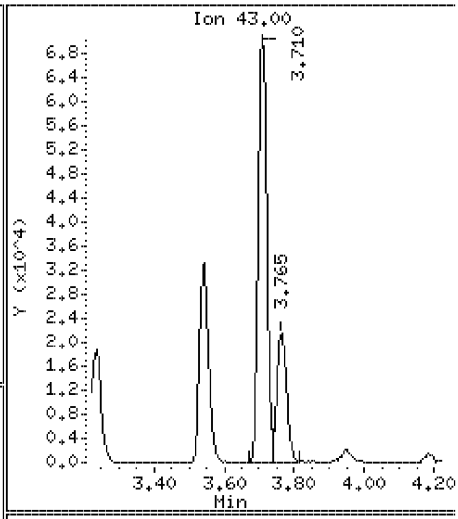
Column phase: J&W DB-5

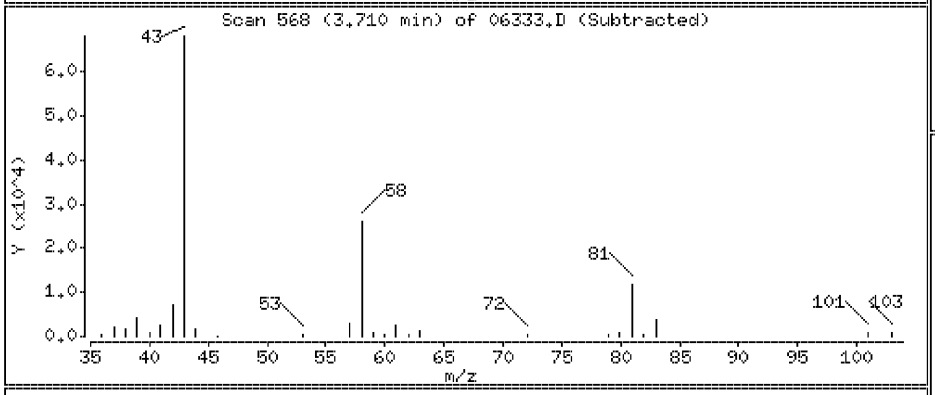
Column diameter: 0.32

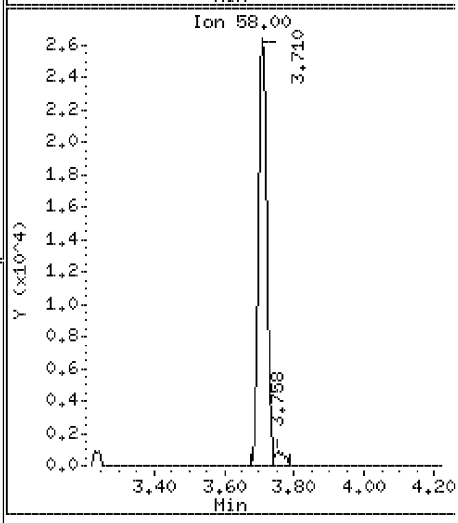
18 Acetone

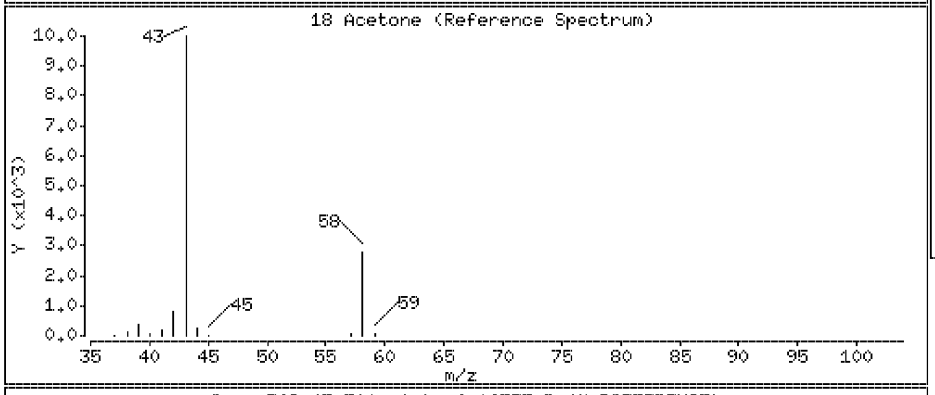
Concentration: 11.6 ppbv

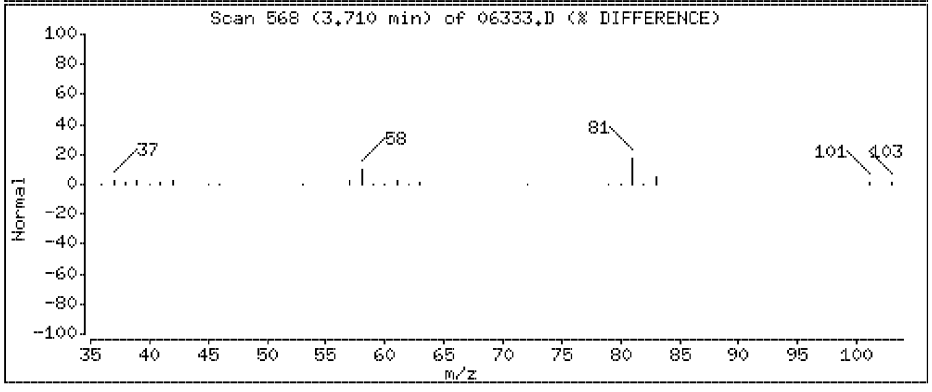












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

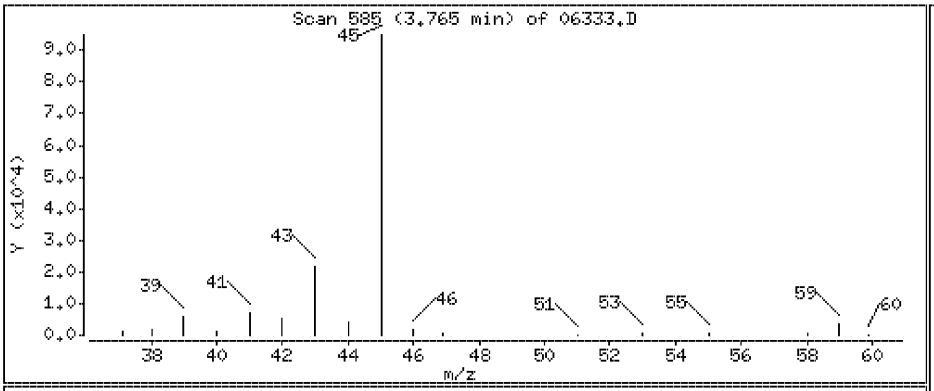
Operator: MJL

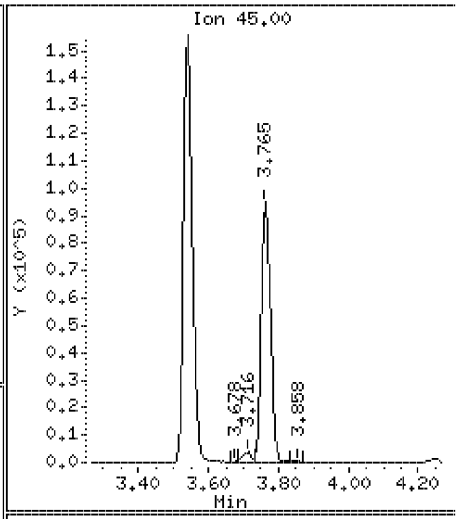
Column phase: J&W DB-5

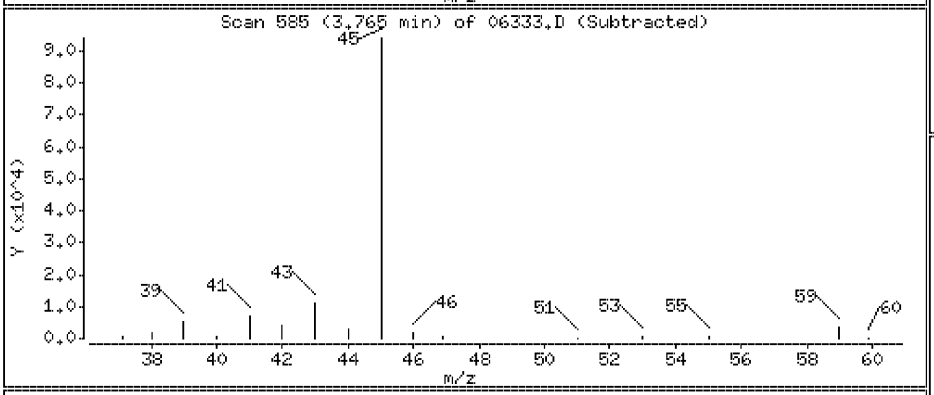
Column diameter: 0.32

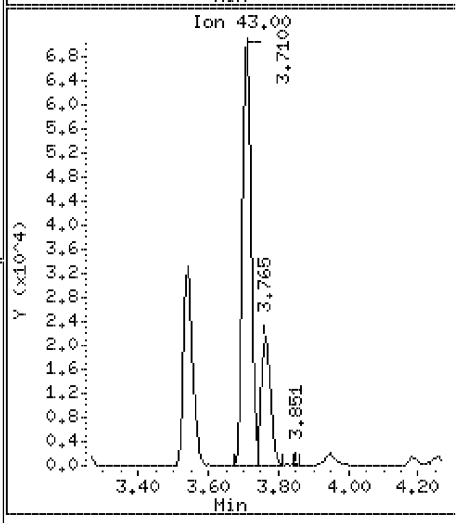
19 Isopropyl Alcohol

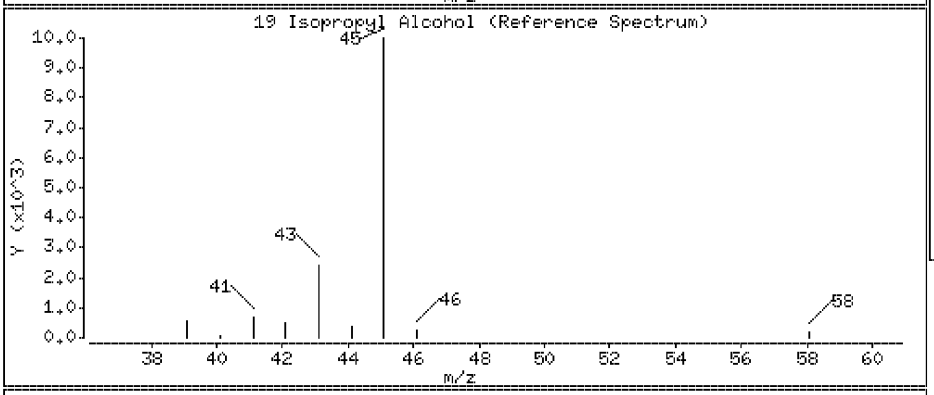
Concentration: 16.4 ppbv

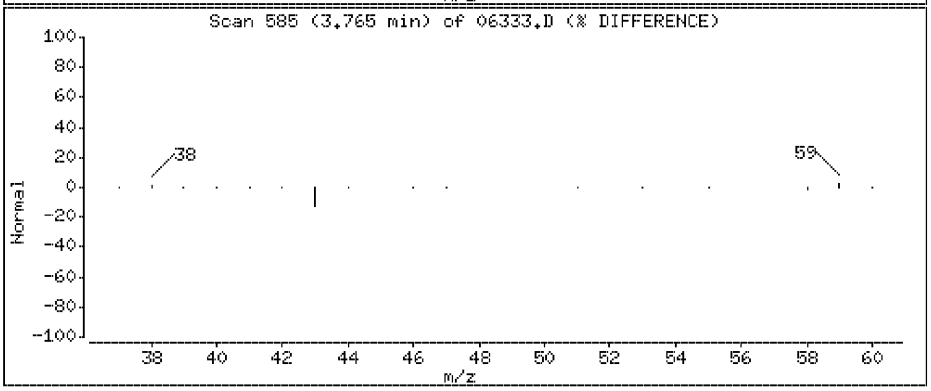












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

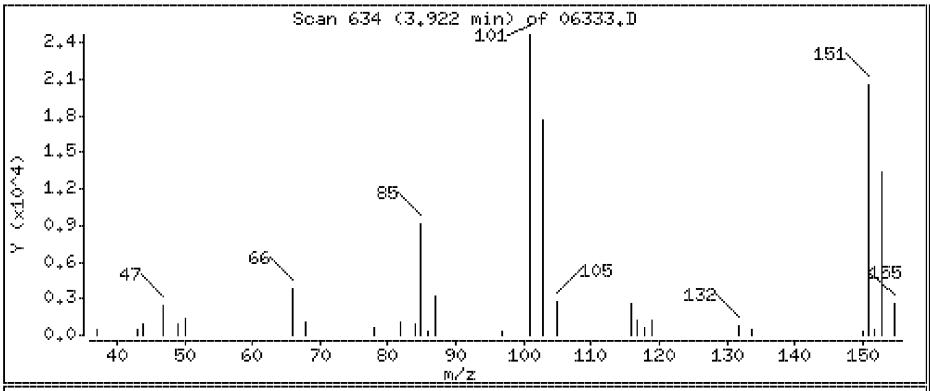
Operator: MJL

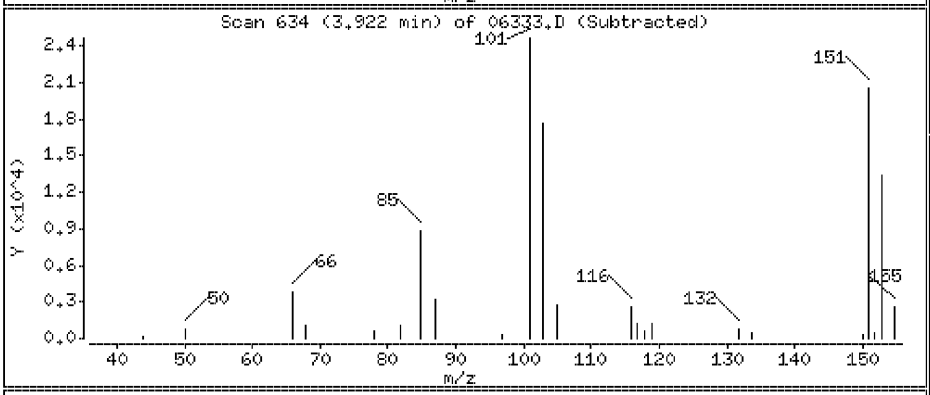
Column phase: J&W DB-5

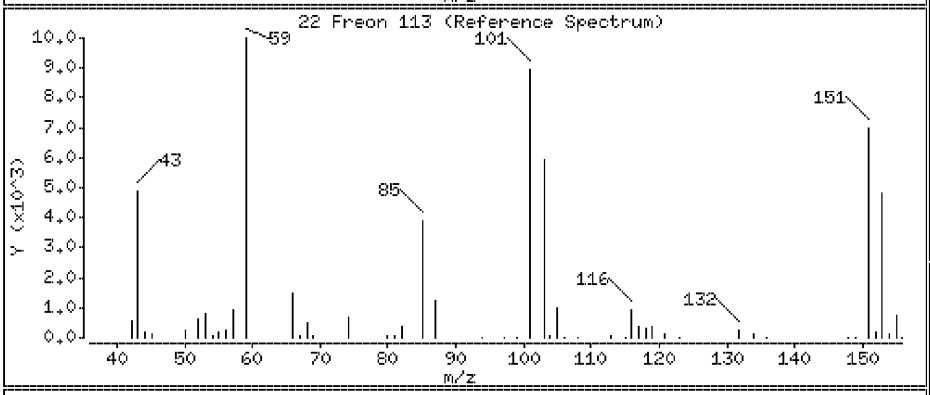
Column diameter: 0.32

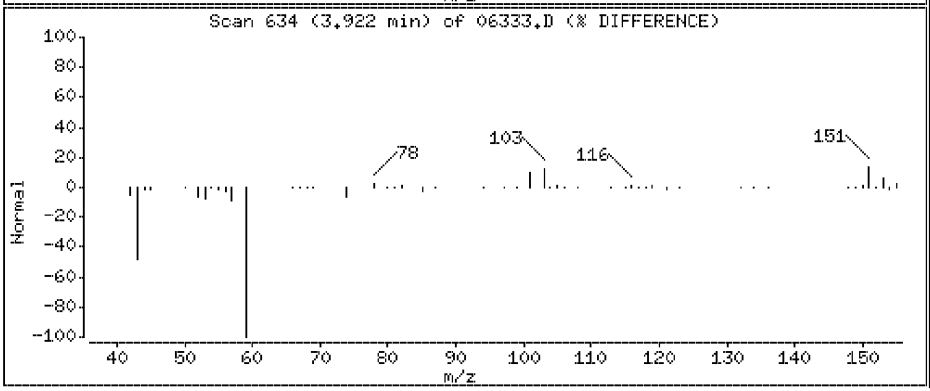
22 Freon 113

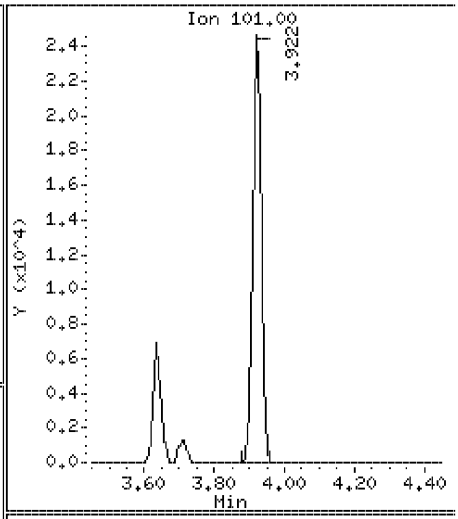
Concentration: 2.99 ppbv

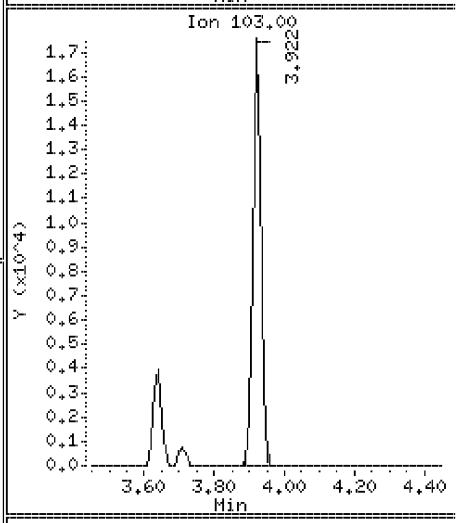


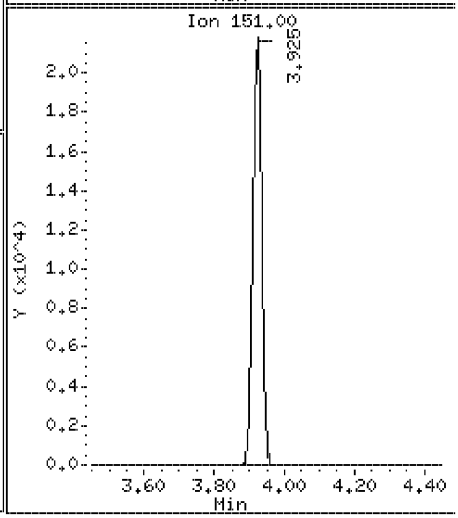












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

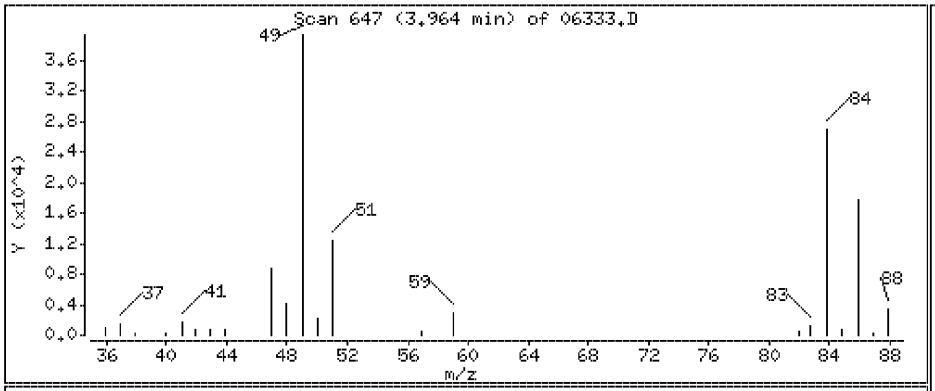
Operator: MJL

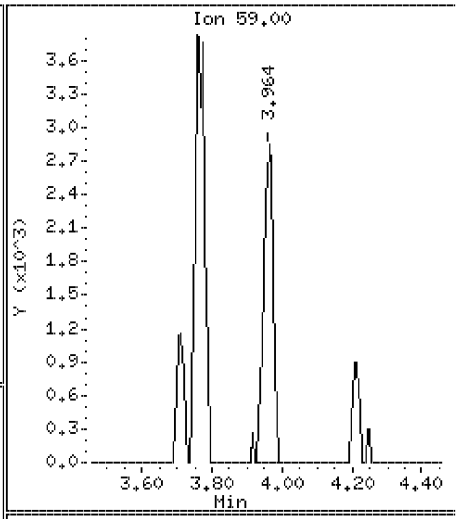
Column phase: J&W DB-5

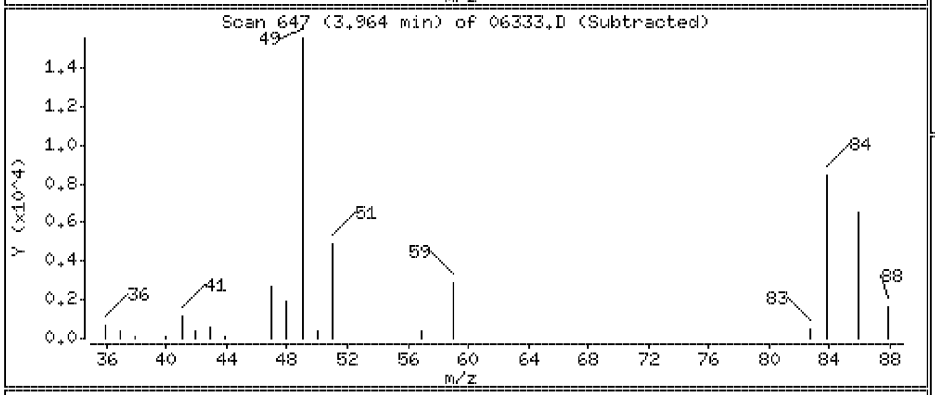
Column diameter: 0.32

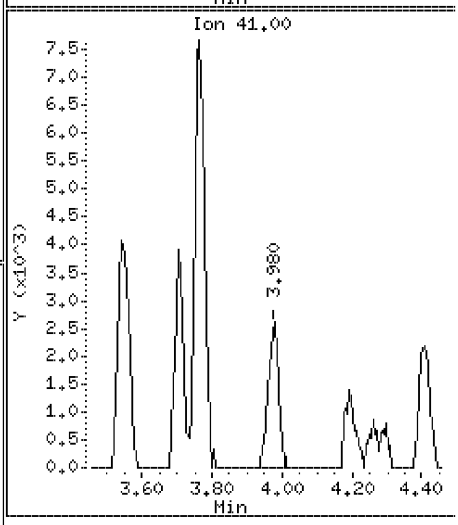
24 Tert Butyl Alcohol (TBA)

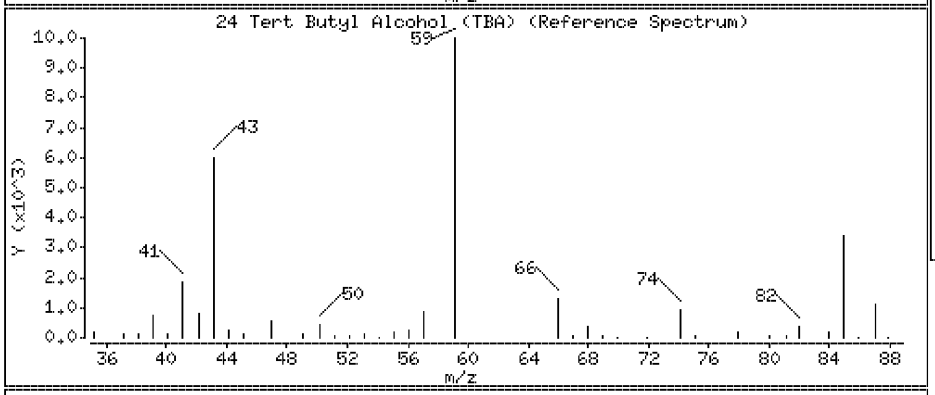
Concentration: 0.392 ppbv

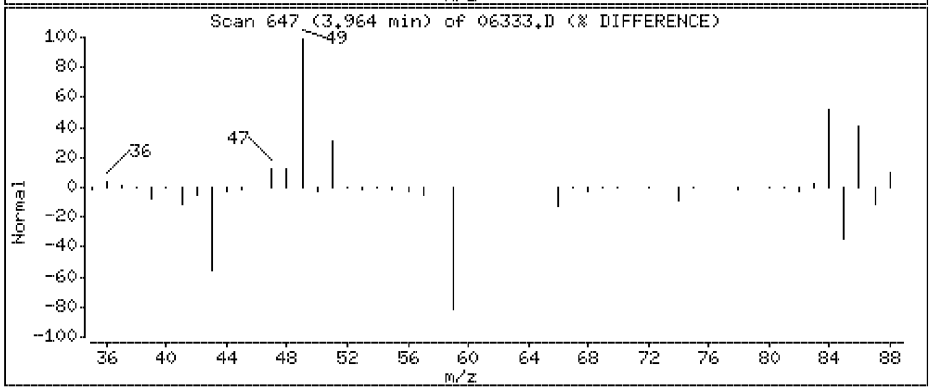












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

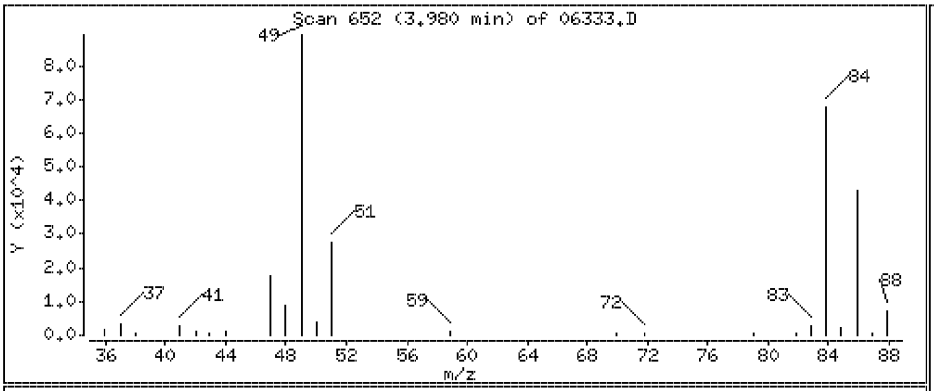
Operator: MJL

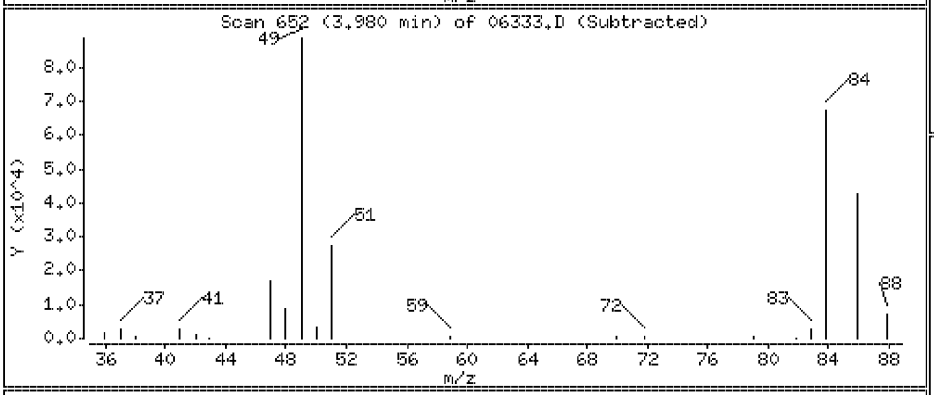
Column phase: J&W DB-5

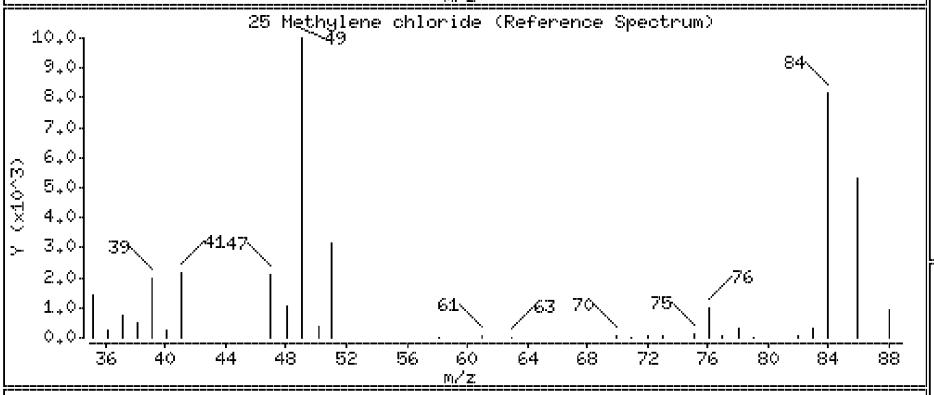
Column diameter: 0.32

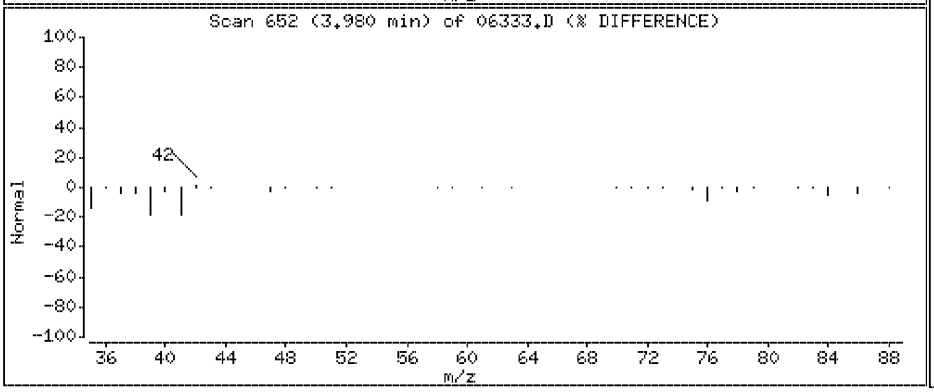
25 Methylene chloride

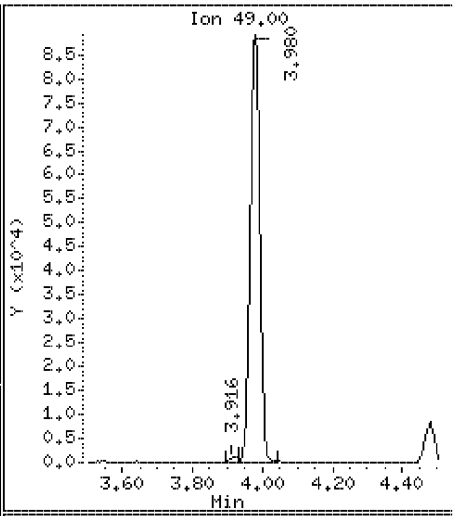
Concentration: 23.0 ppbv

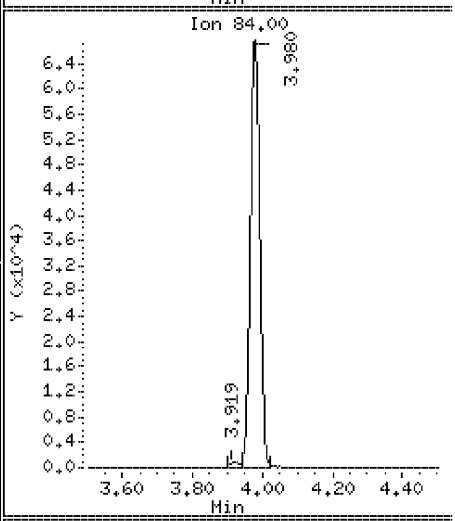


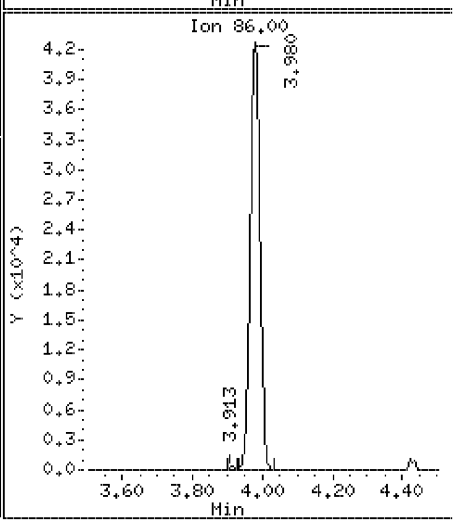












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

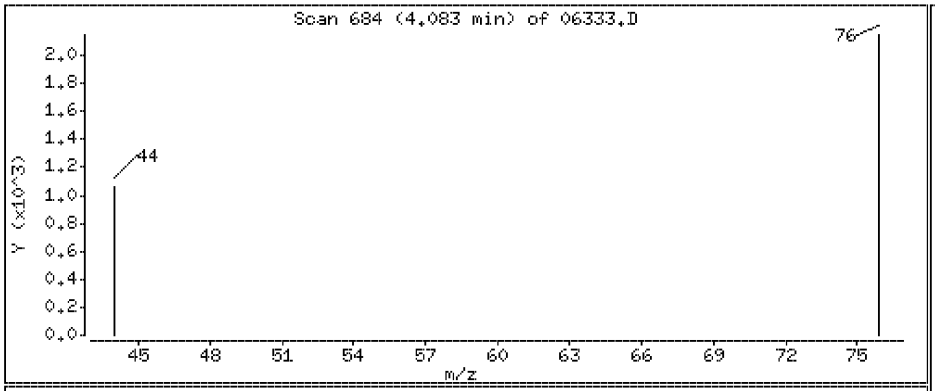
Operator: MJL

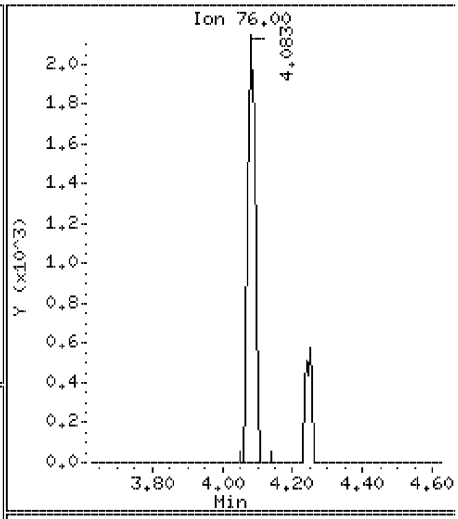
Column phase: J&W DB-5

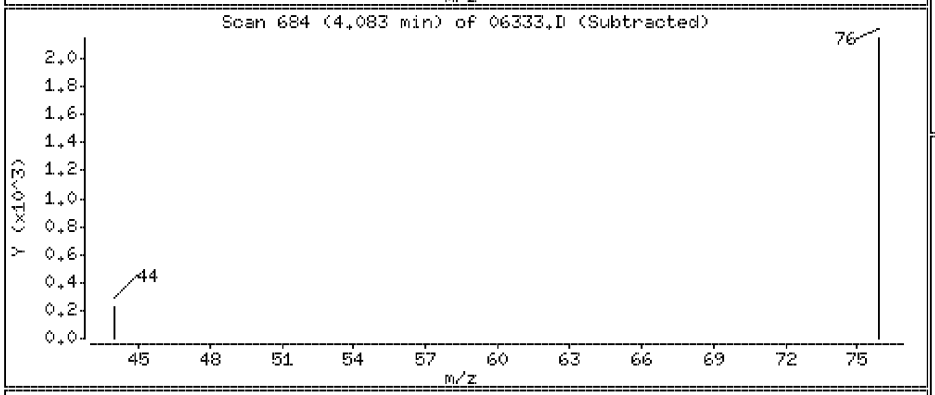
Column diameter: 0.32

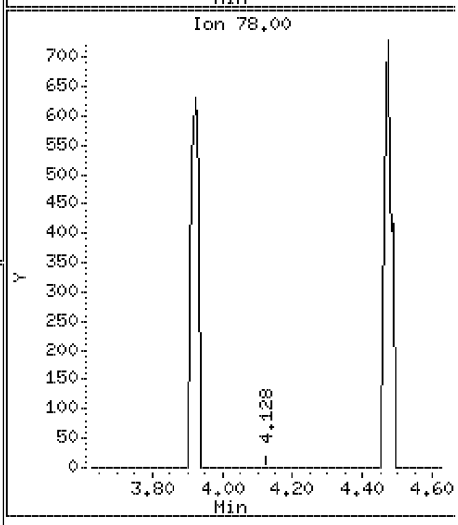
27 Carbon Disulfide

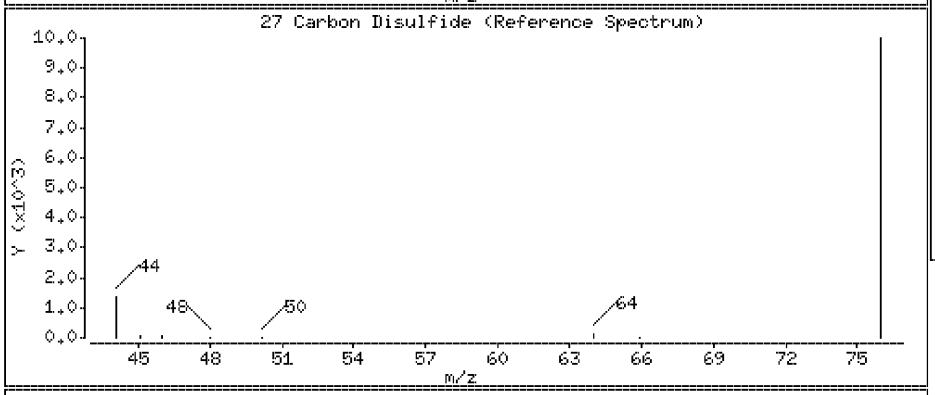
Concentration: 0.223 ppbv

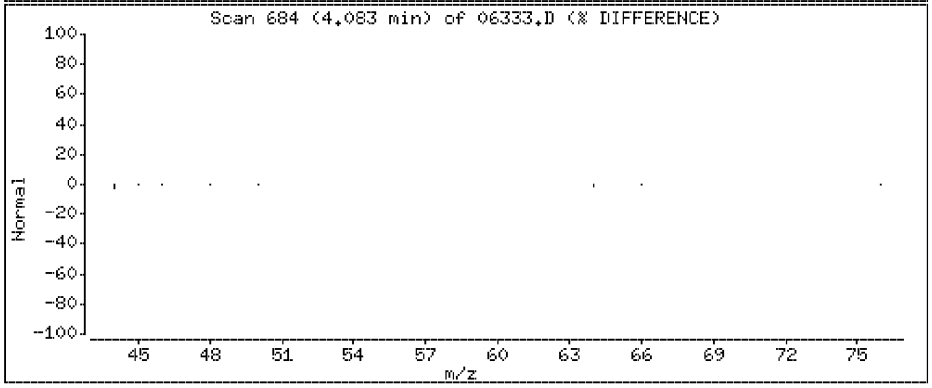












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

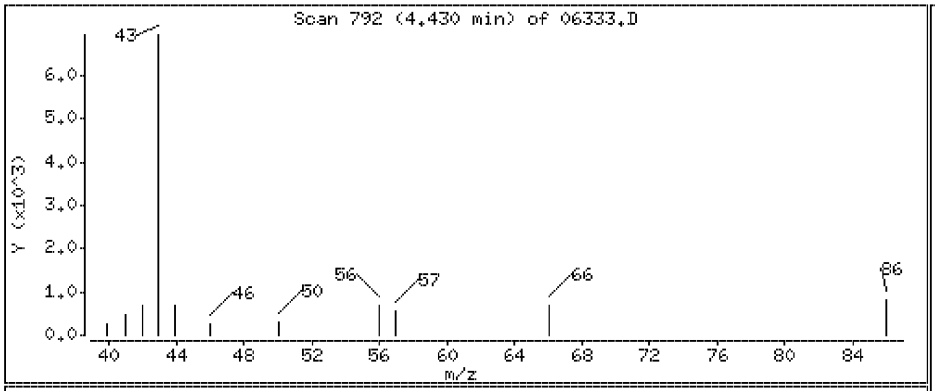
Operator: MJL

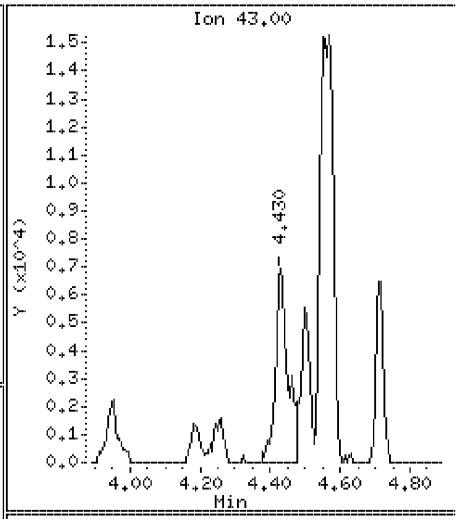
Column phase: J&W DB-5

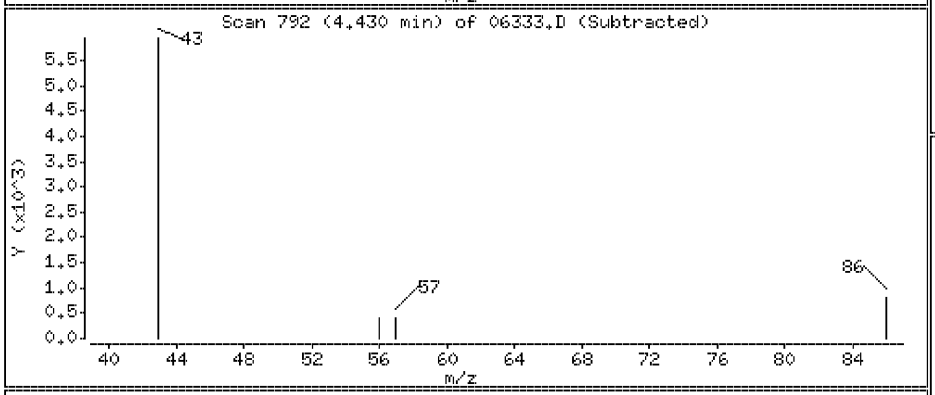
Column diameter: 0.32

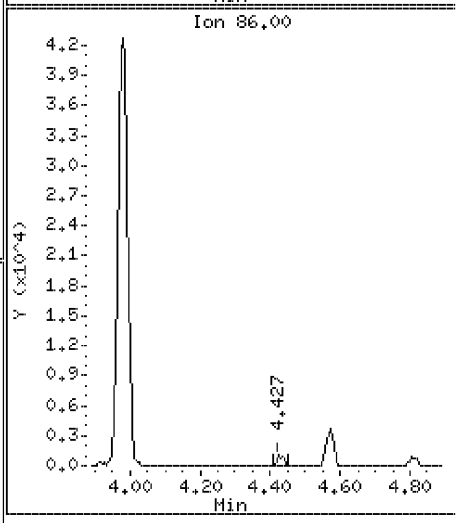
30 Vinyl Acetate

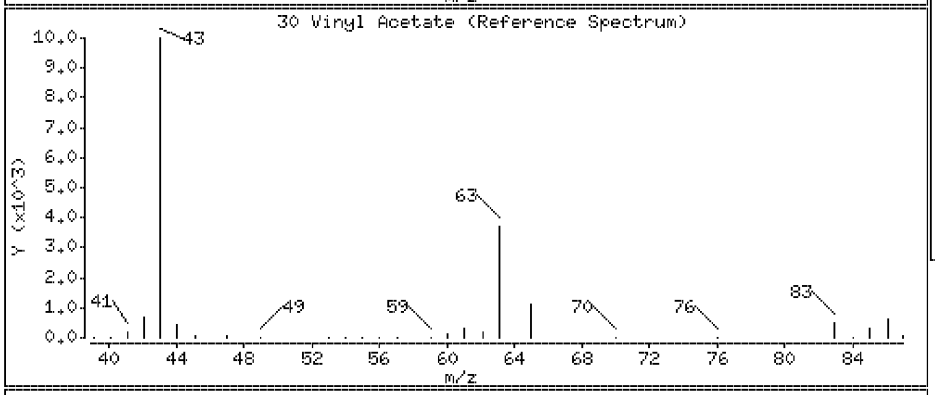
Concentration: 1.26 ppbv

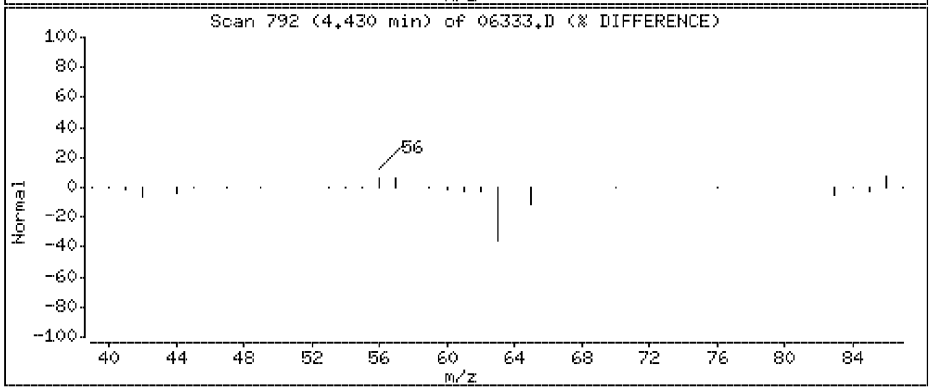












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

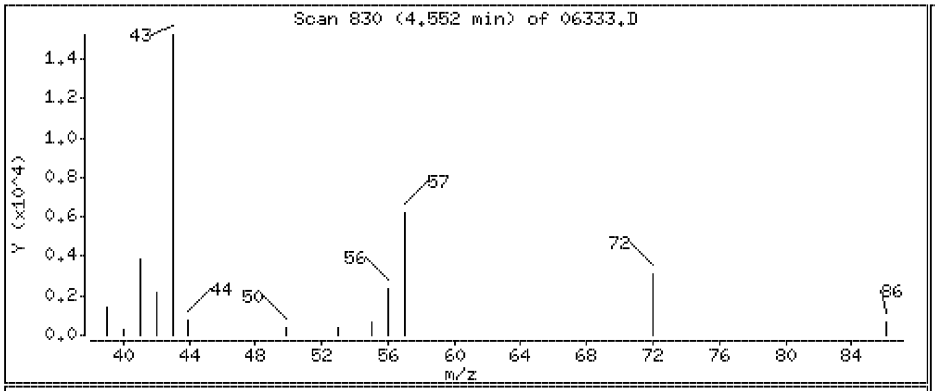
Operator: MJL

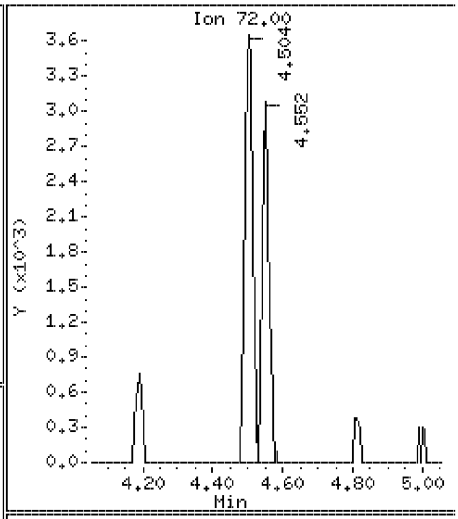
Column phase: J&W DB-5

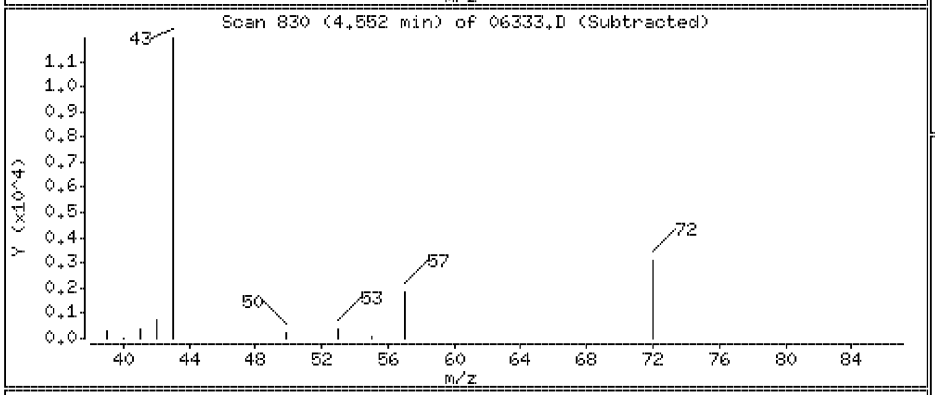
Column diameter: 0.32

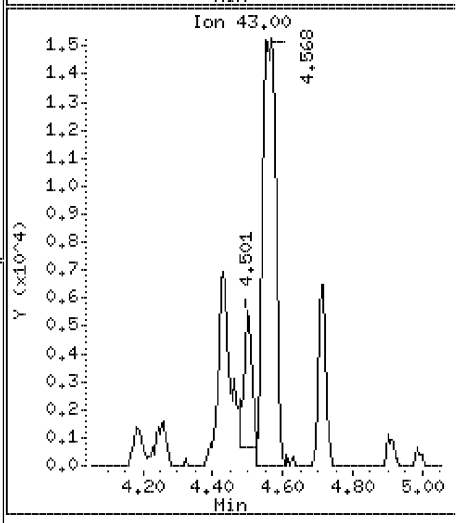
33 Methyl Ethyl Ketone

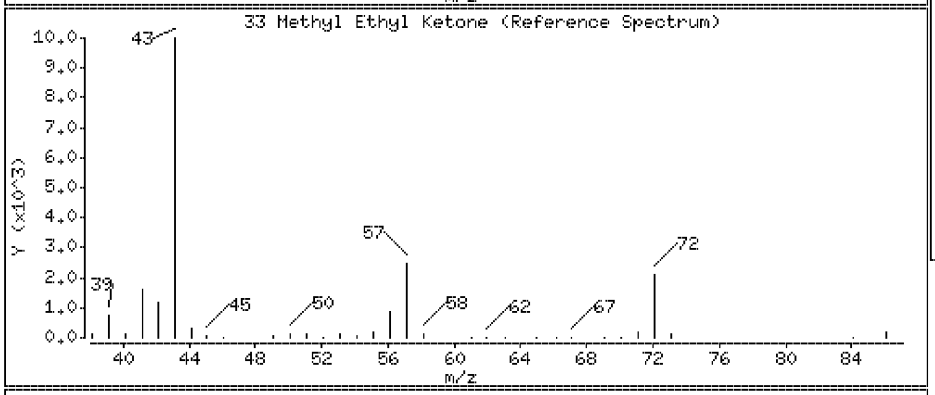
Concentration: 1.44 ppbv

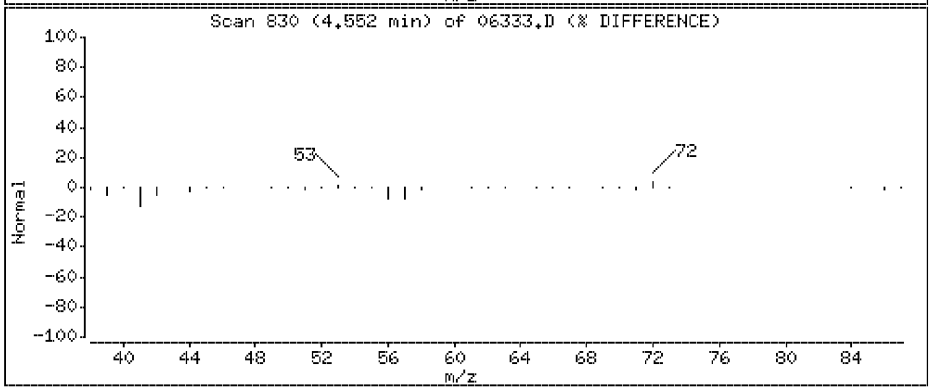












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

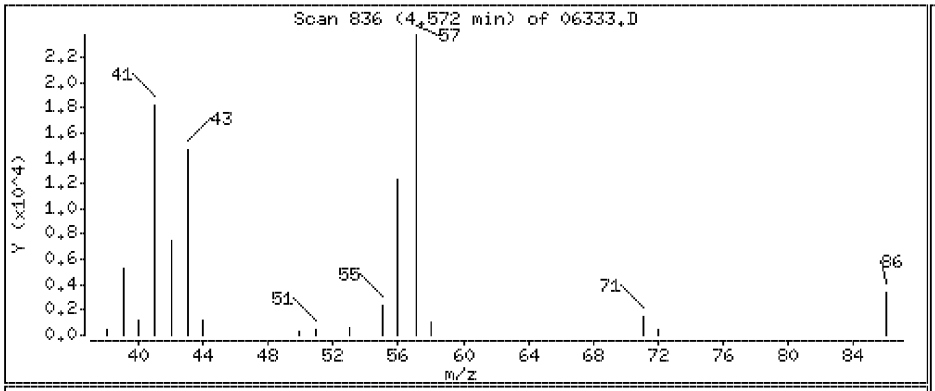
Operator: MJL

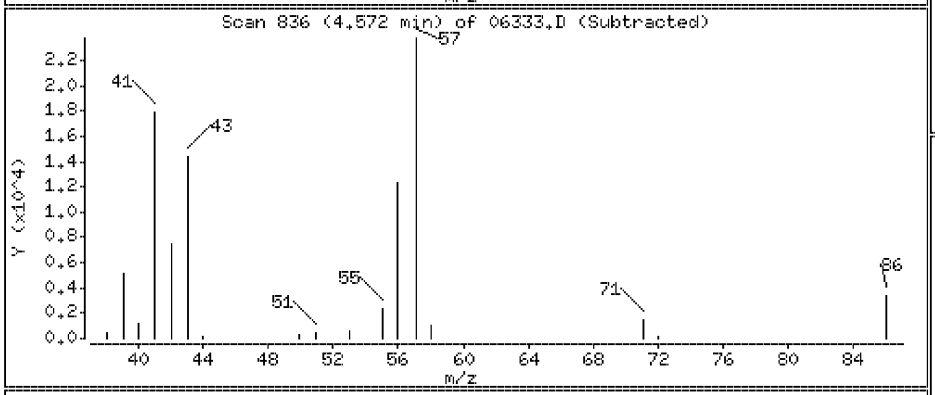
Column phase: J&W DB-5

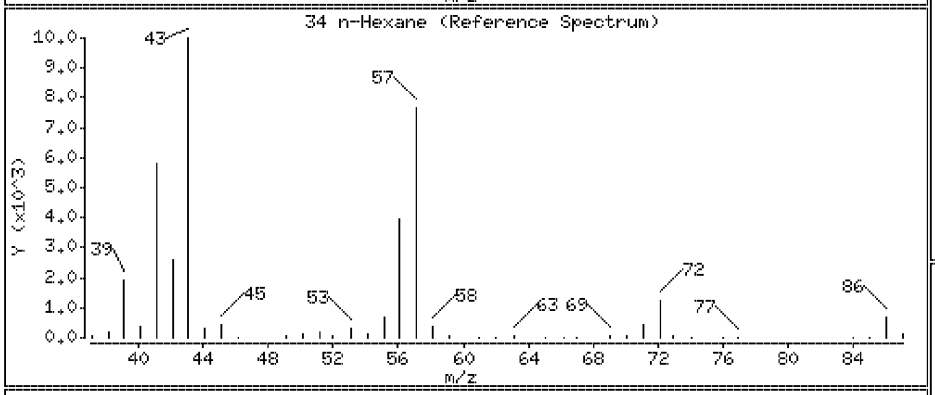
Column diameter: 0.32

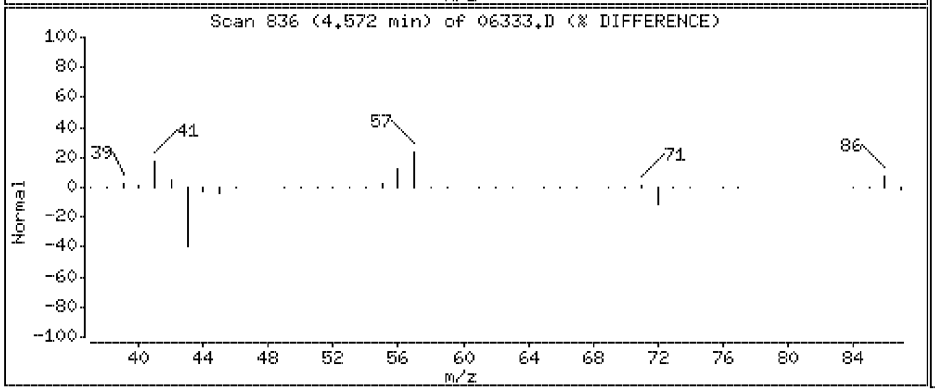
34 n-Hexane

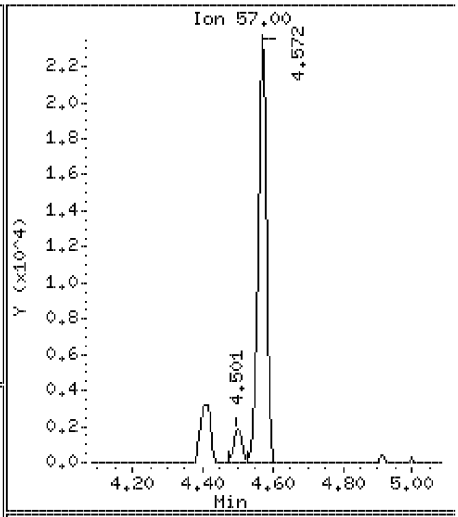
Concentration: 3.64 ppbv

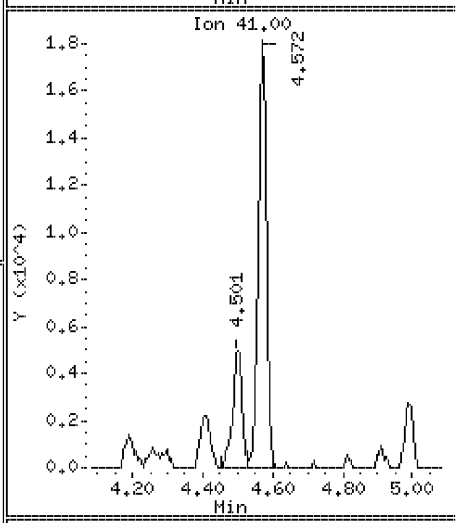


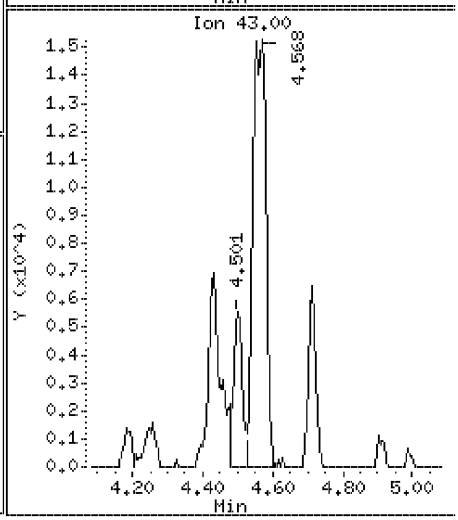












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

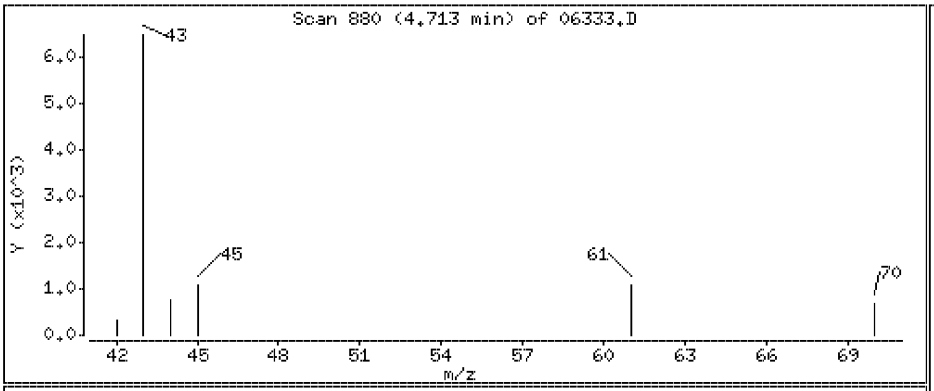
Operator: MJL

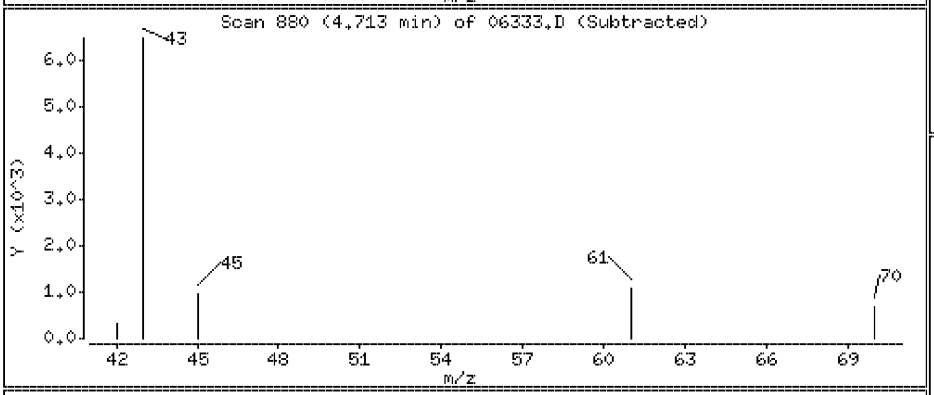
Column phase: J&W DB-5

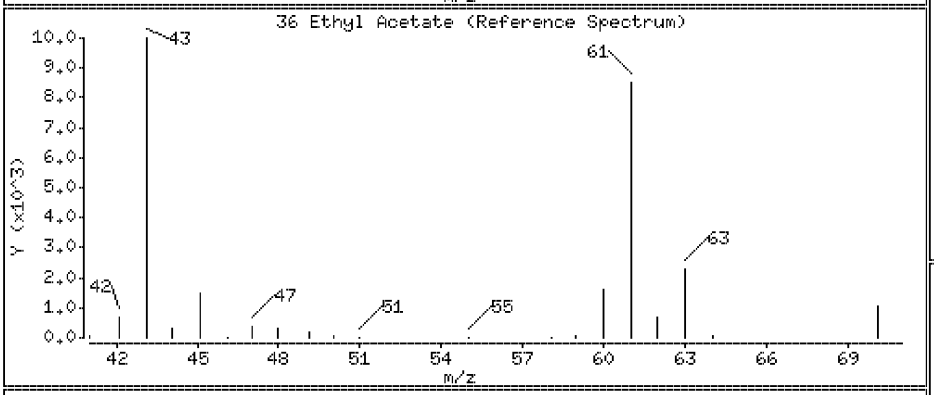
Column diameter: 0.32

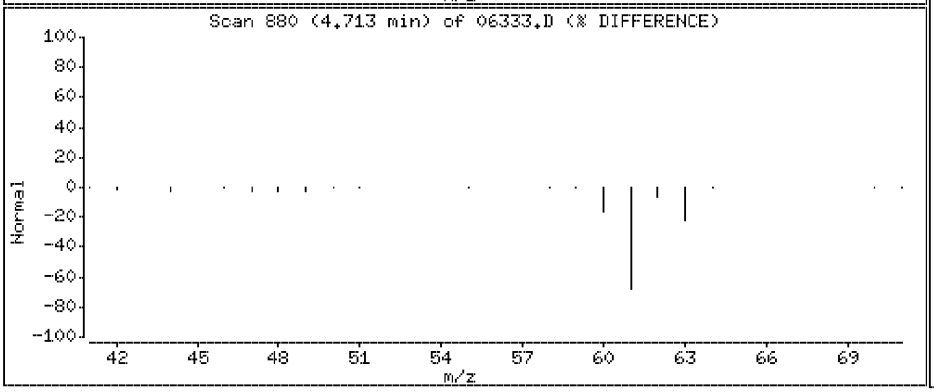
36 Ethyl Acetate

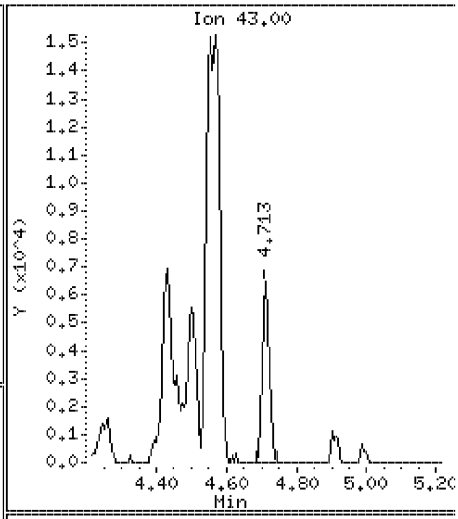
Concentration: 0.663 ppbv

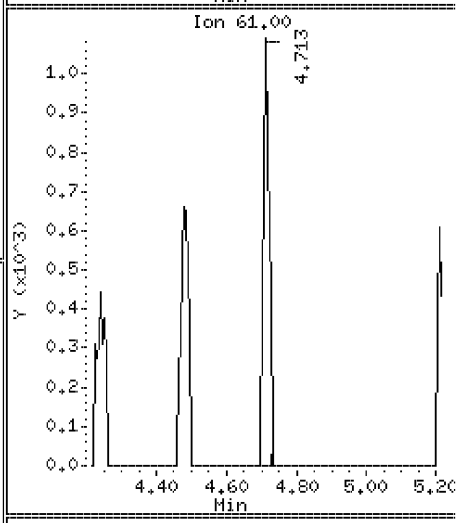


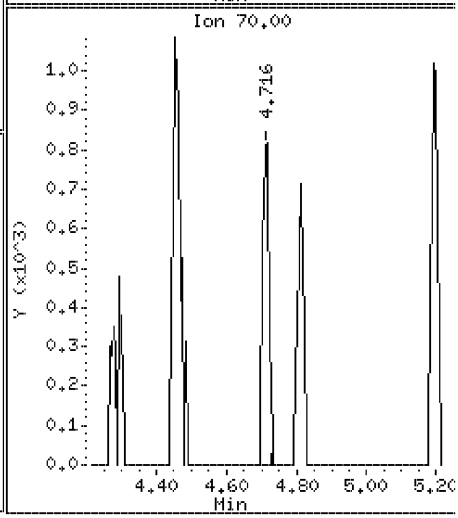












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

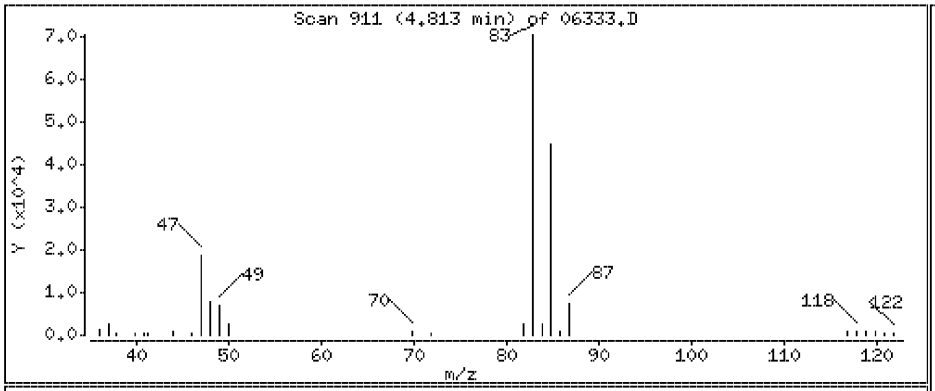
Operator: MJL

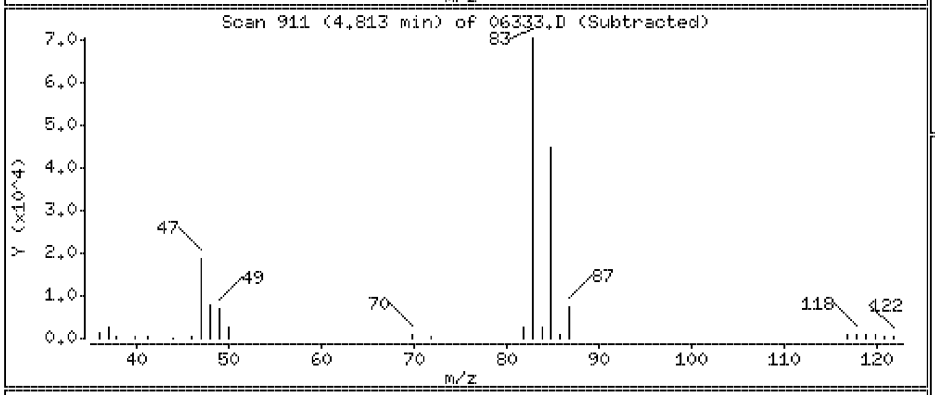
Column phase: J&W DB-5

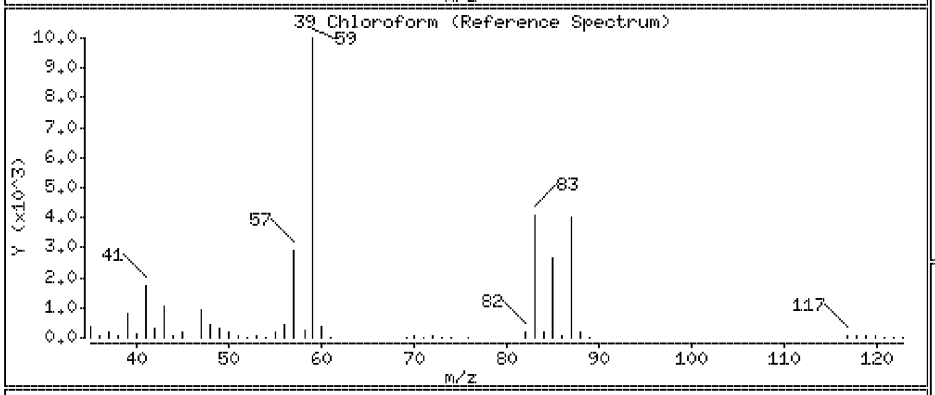
Column diameter: 0.32

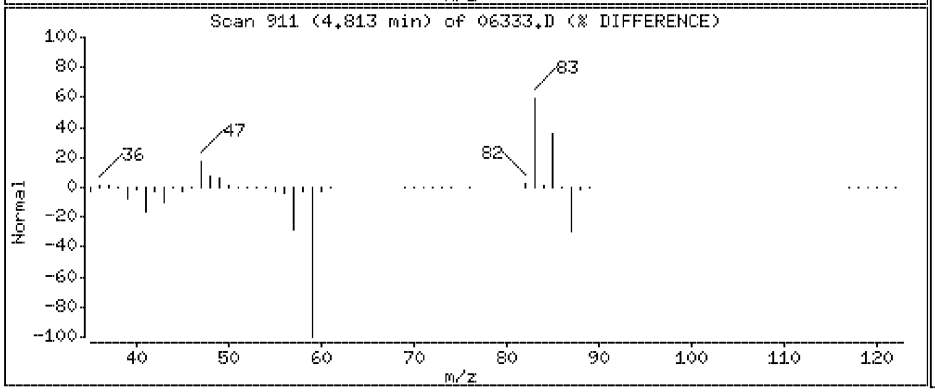
39 Chloroform

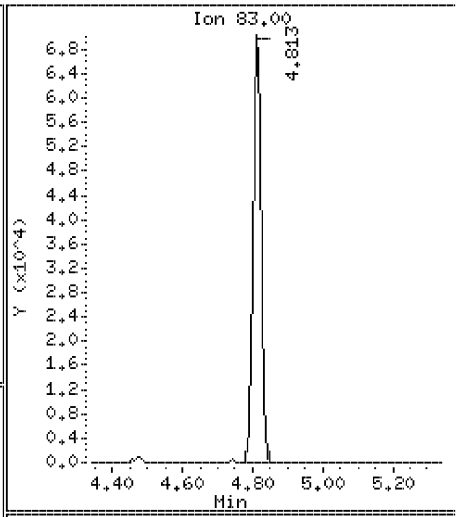
Concentration: 7.93 ppbv

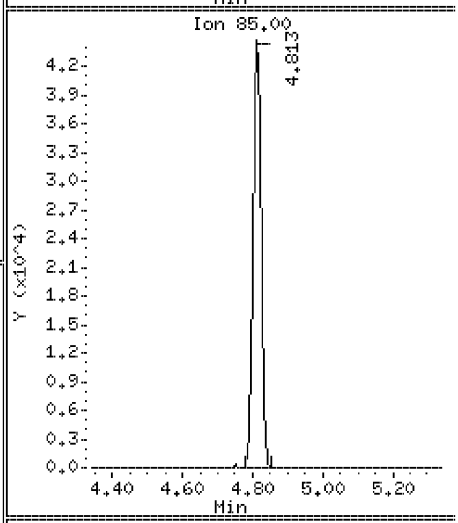


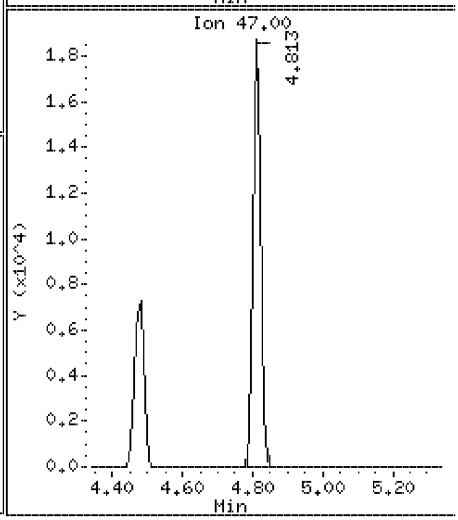












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

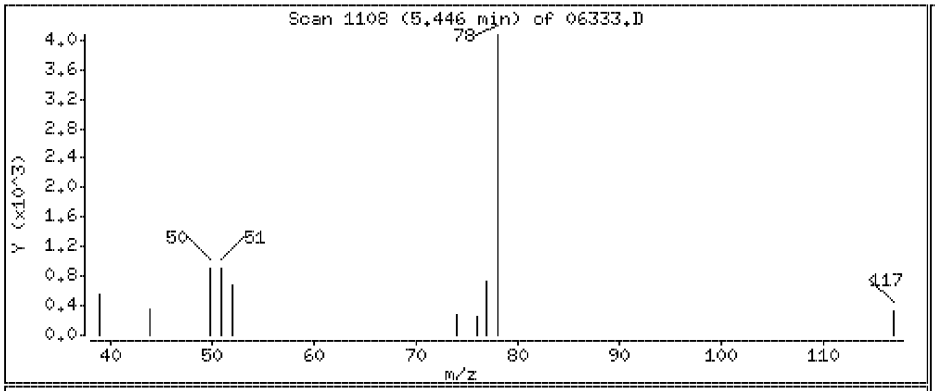
Operator: MJL

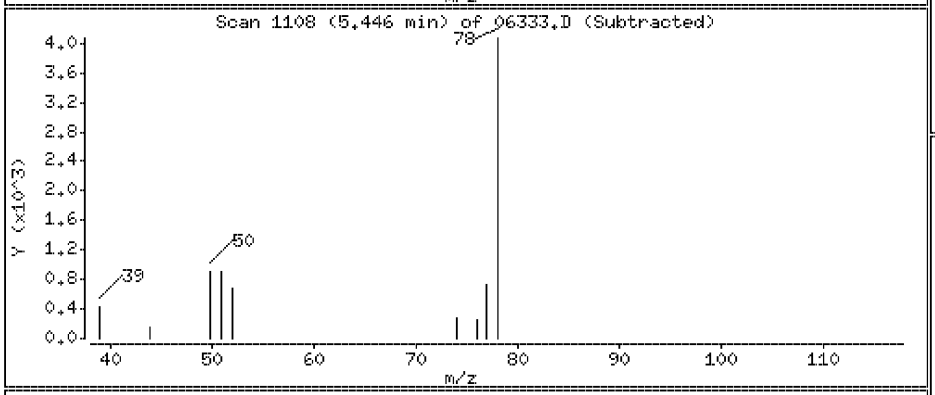
Column phase: J&W DB-5

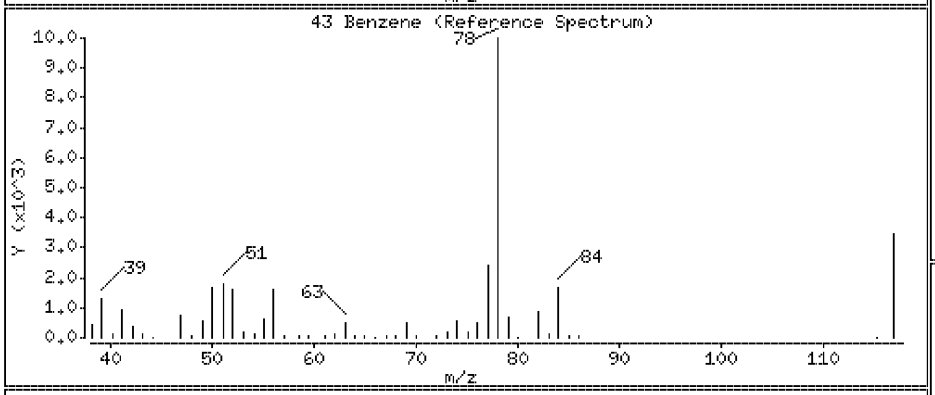
Column diameter: 0.32

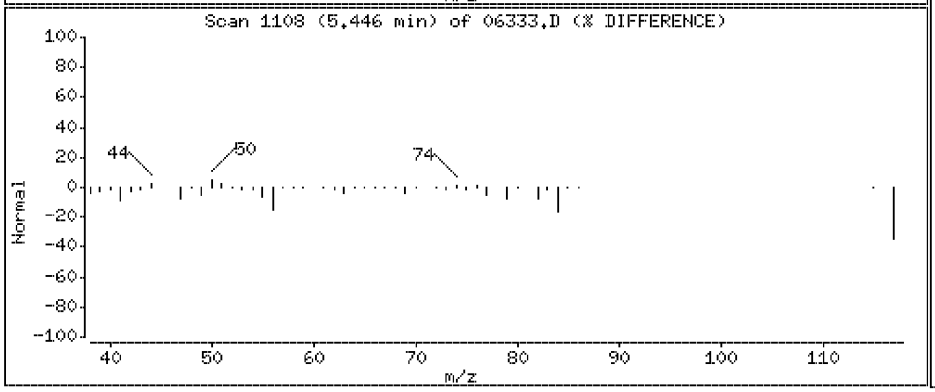
43 Benzene

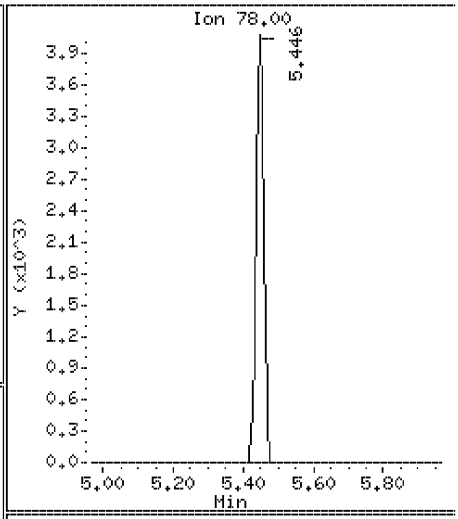
Concentration: 0.297 ppbv

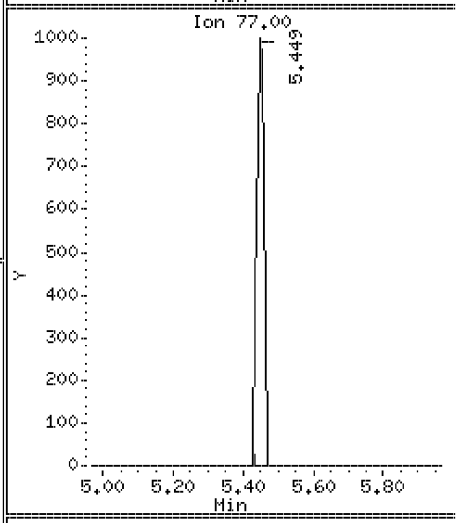


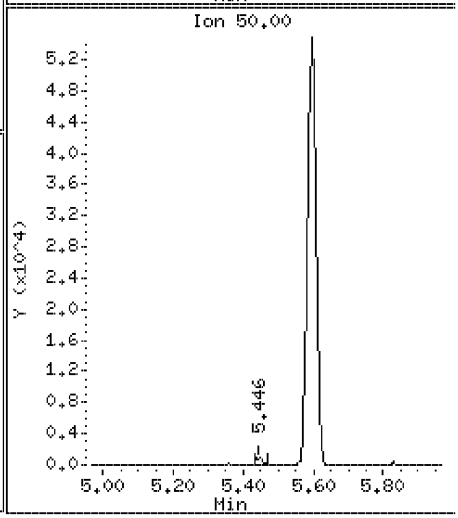












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

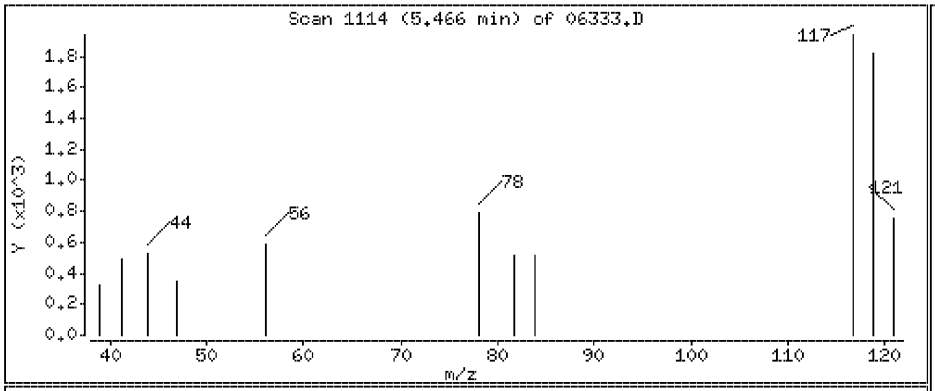
Operator: MJL

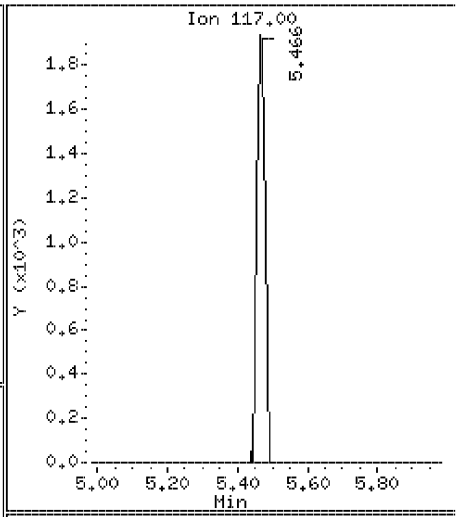
Column phase: J&W DB-5

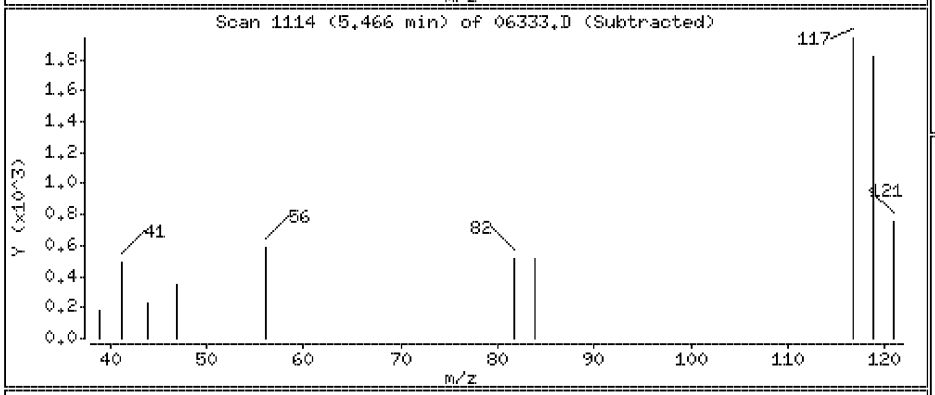
Column diameter: 0.32

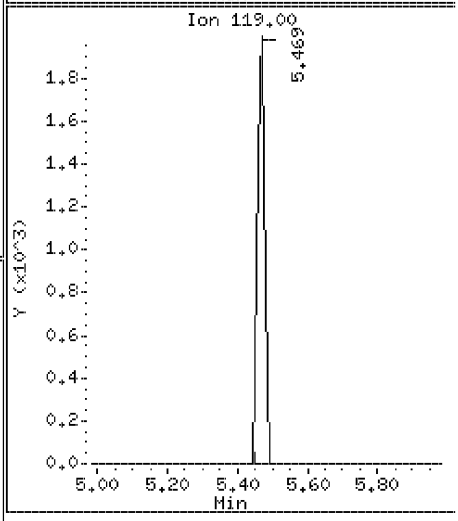
44 Carbon tetrachloride

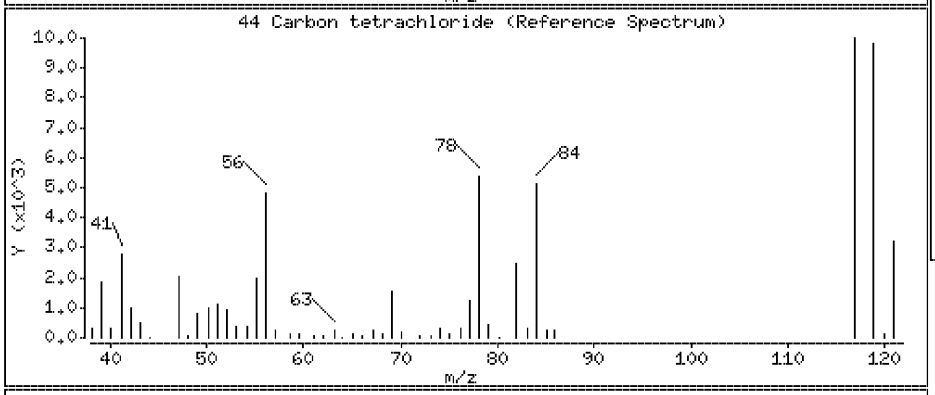
Concentration: 0.198 ppbv

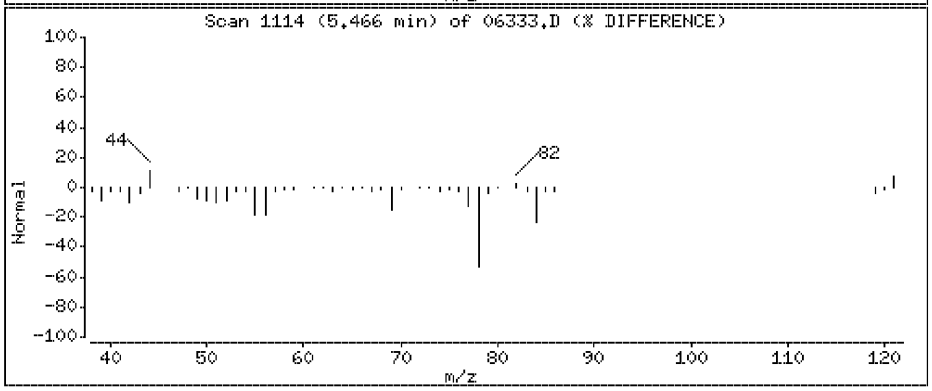












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

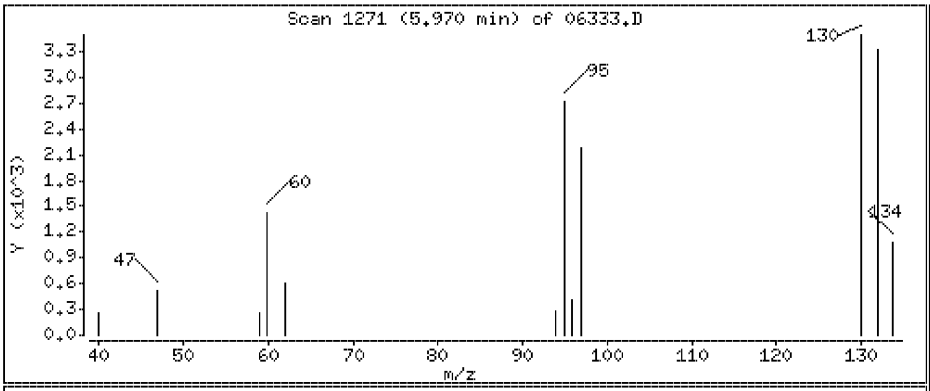
Operator: MJL

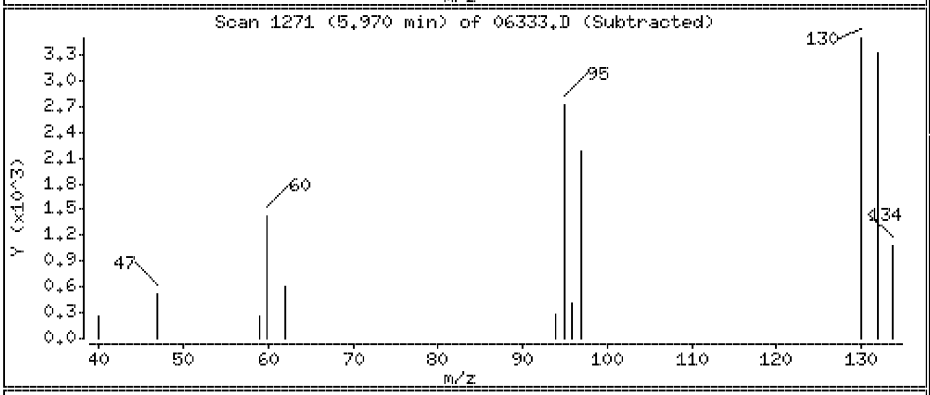
Column phase: J&W DB-5

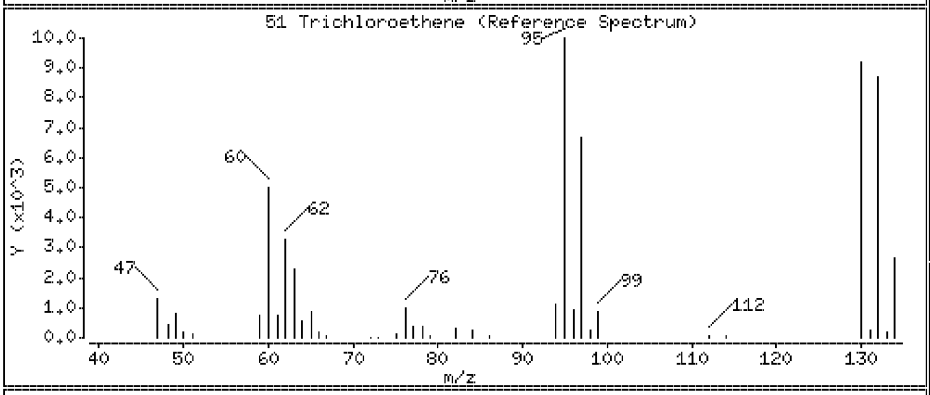
Column diameter: 0.32

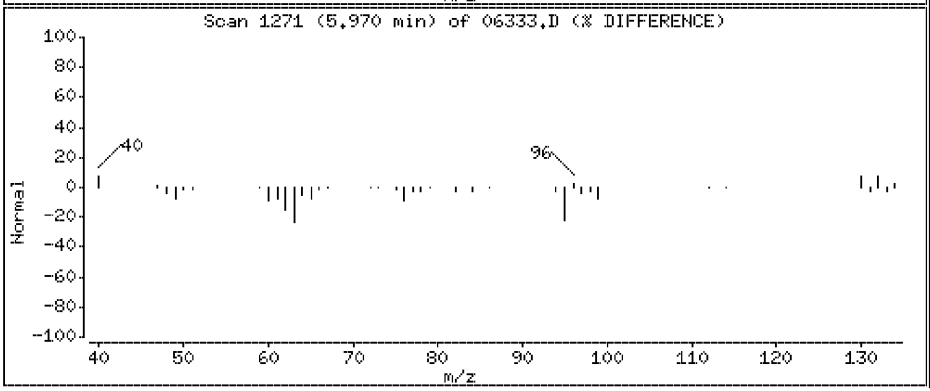
51 Trichloroethene

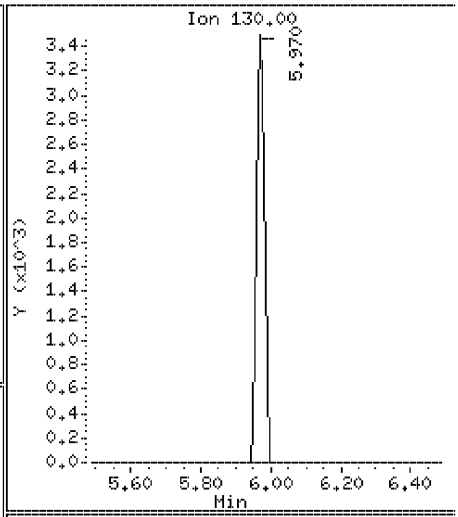
Concentration: 0.489 ppbv

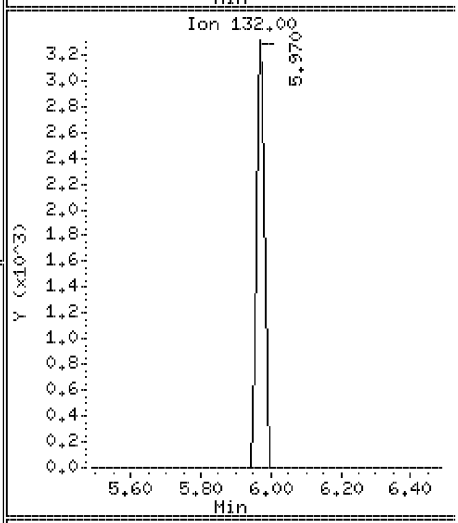


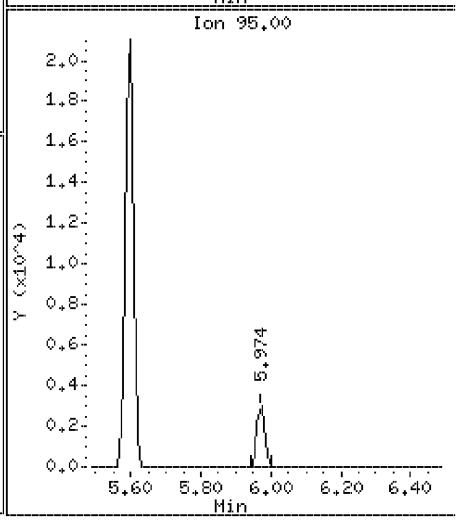












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

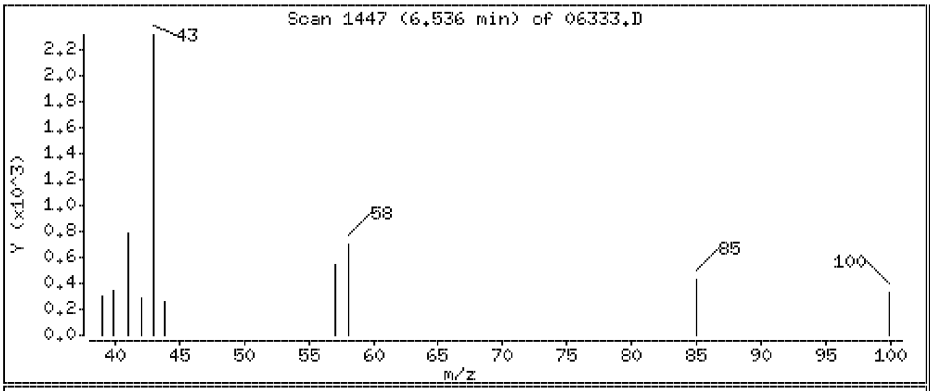
Operator: MJL

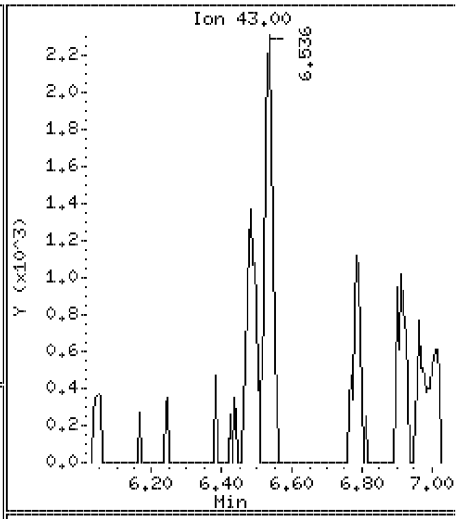
Column phase: J&W DB-5

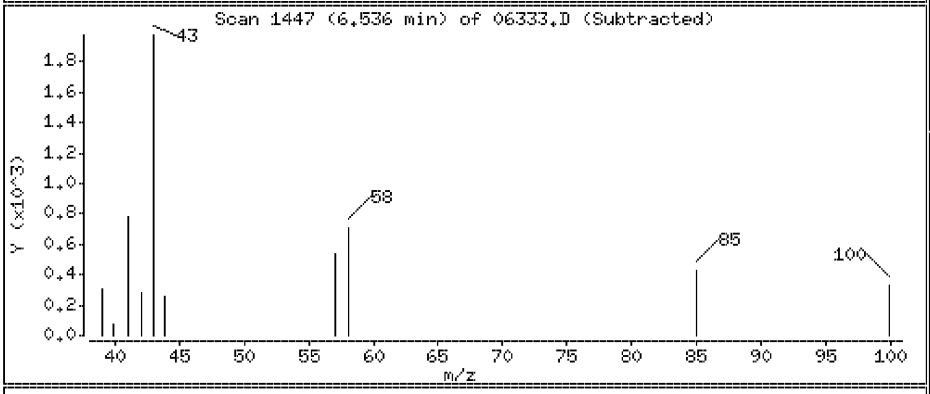
Column diameter: 0.32

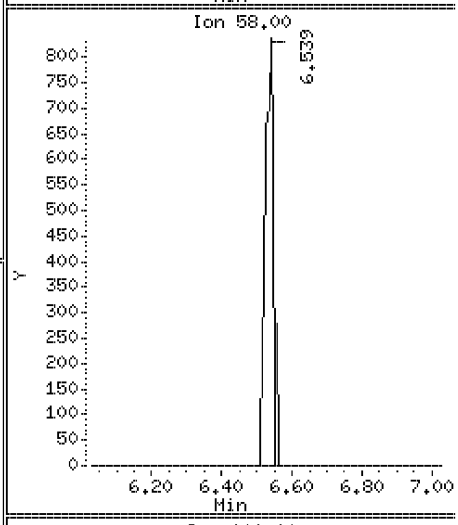
56 Methyl Isobutyl Ketone

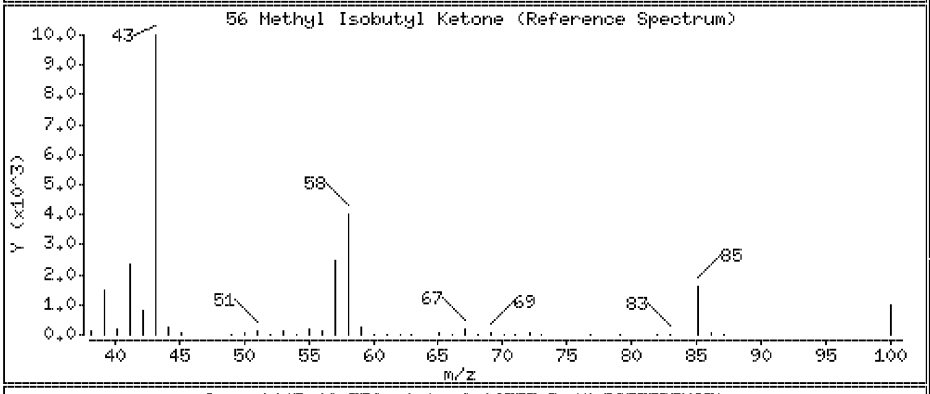
Concentration: 0.224 ppbv

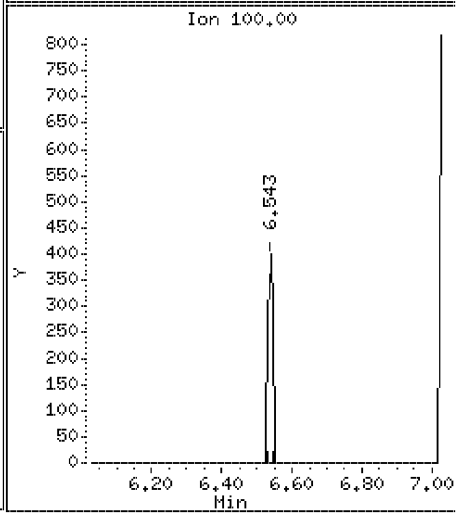


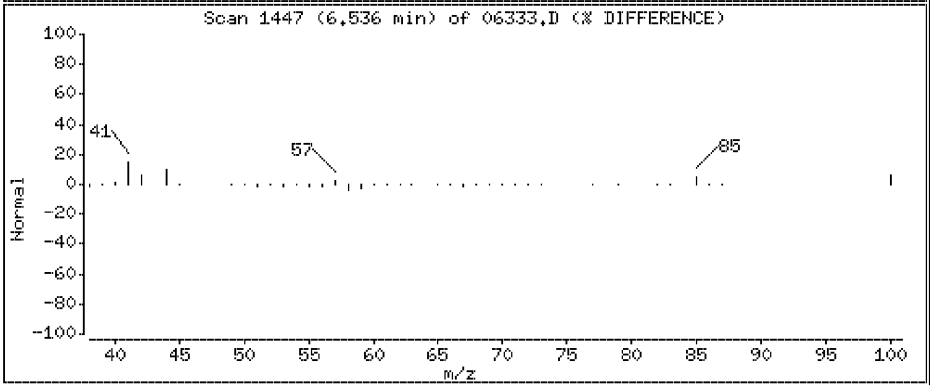












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

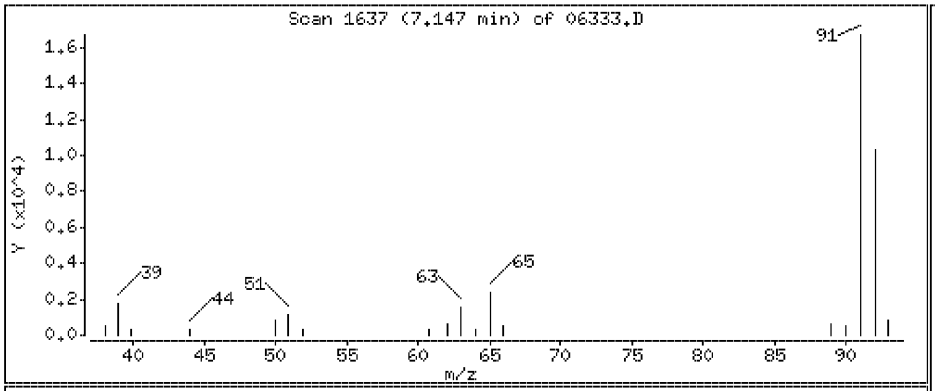
Operator: MJL

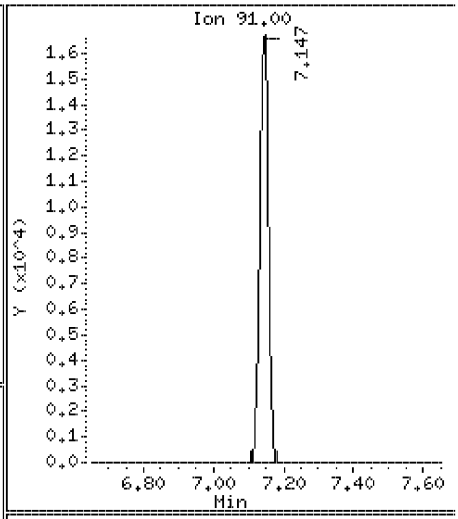
Column phase: J&W DB-5

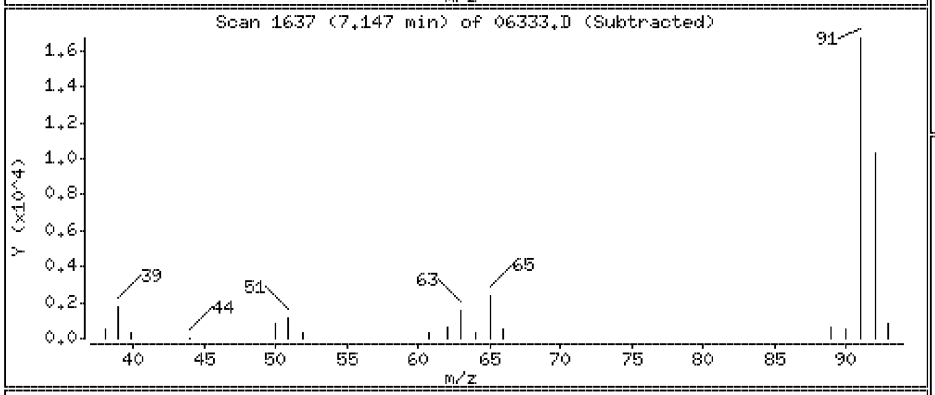
Column diameter: 0.32

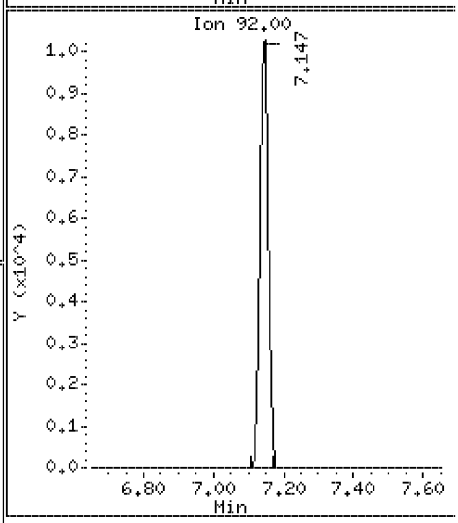
61 Toluene

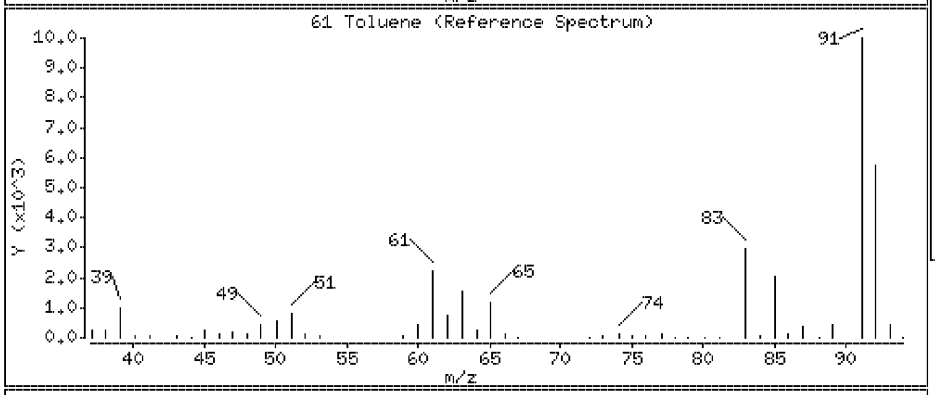
Concentration: 1.08 ppbv

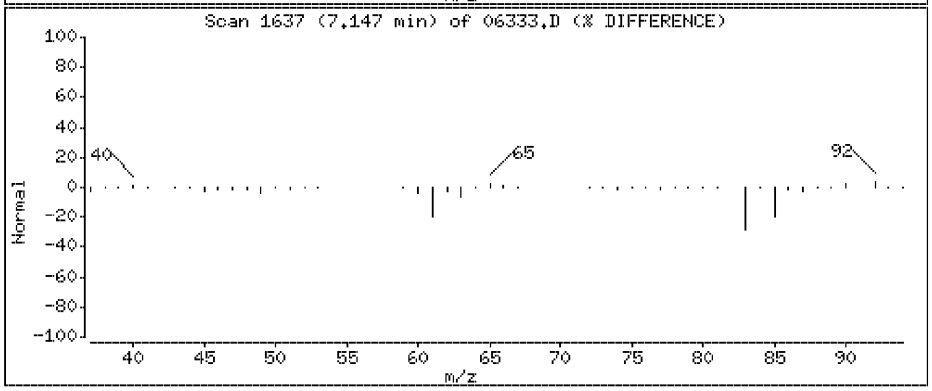












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

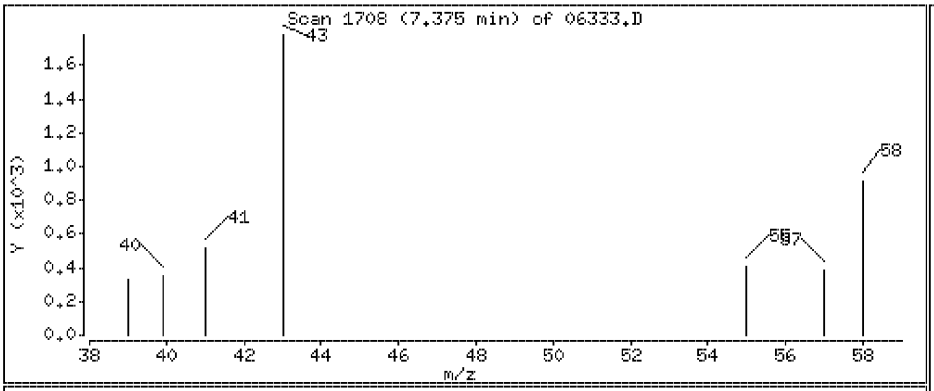
Operator: MJL

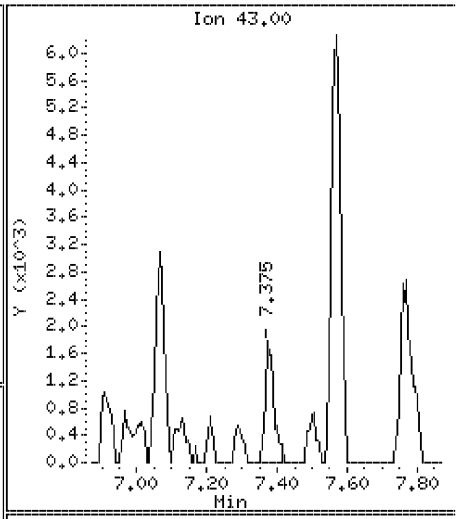
Column phase: J&W DB-5

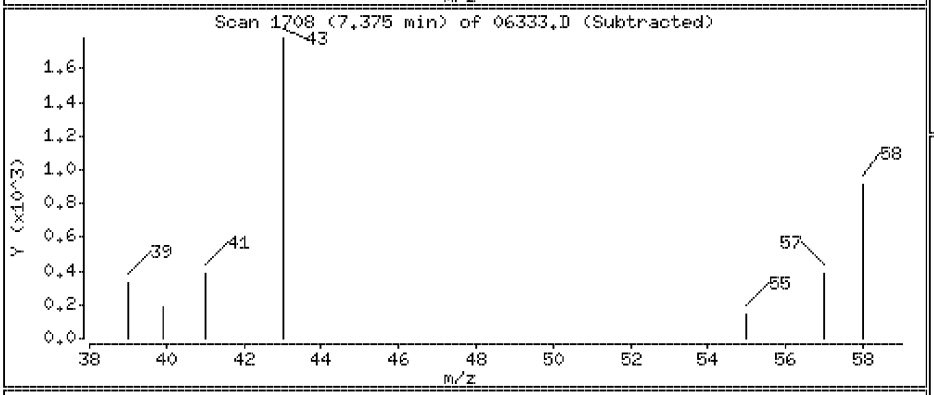
Column diameter: 0.32

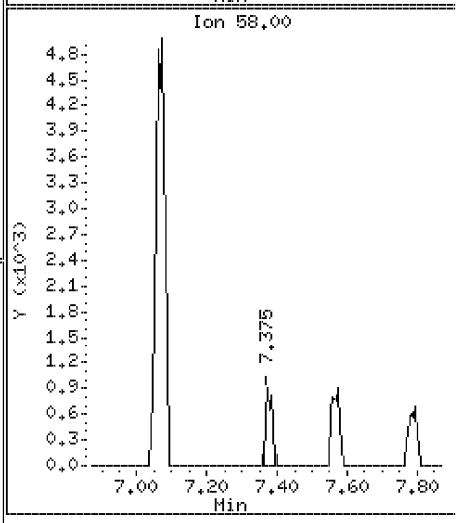
62 Methyl Butyl Ketone

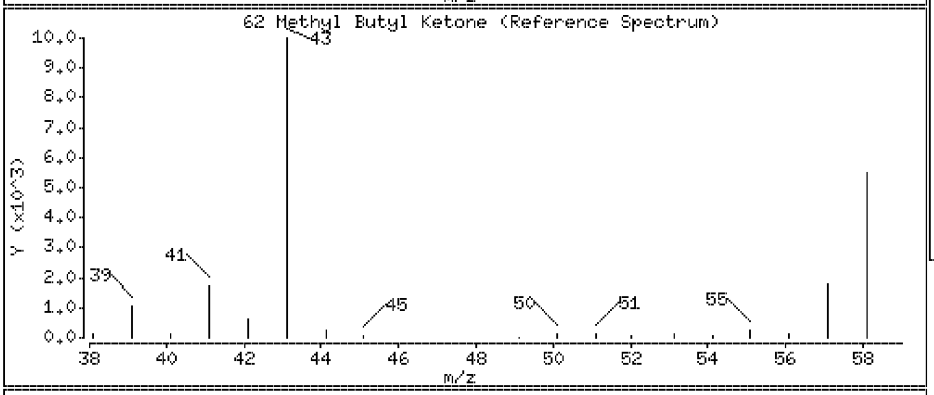
Concentration: 0.202 ppbv

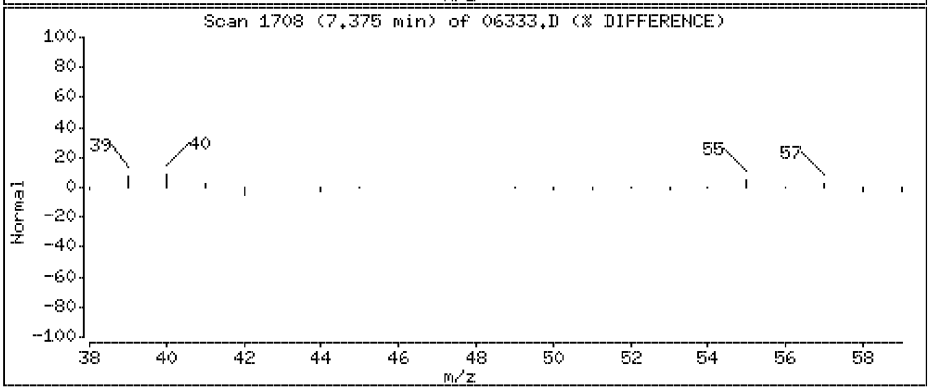












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

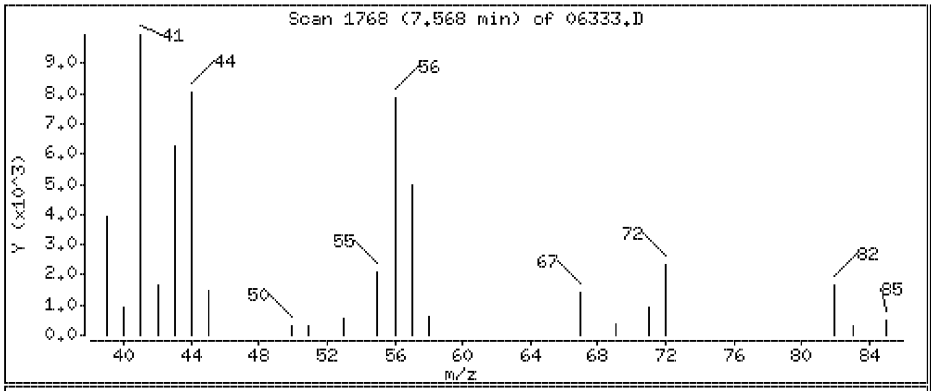
Operator: MJL

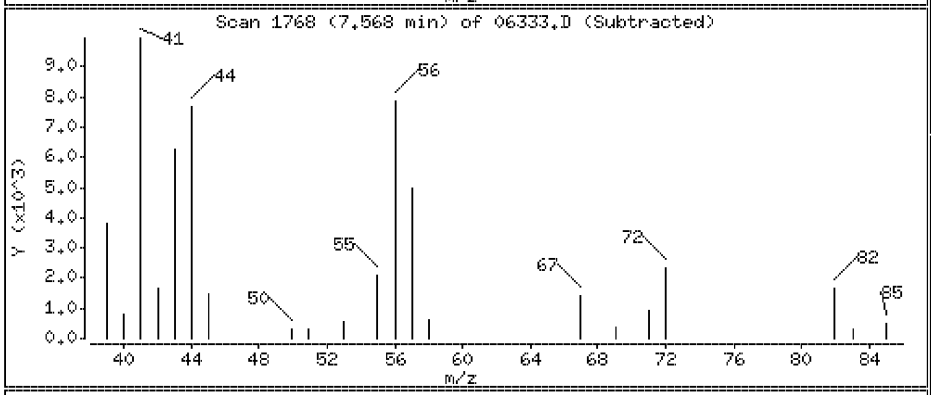
Column phase: J&W DB-5

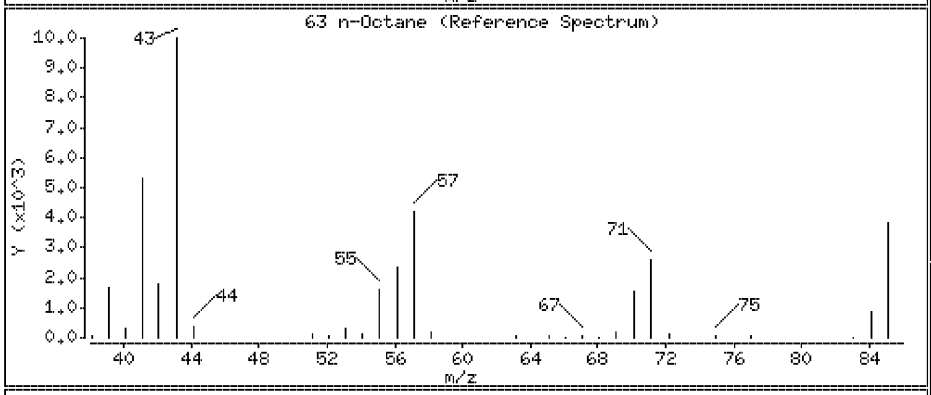
Column diameter: 0.32

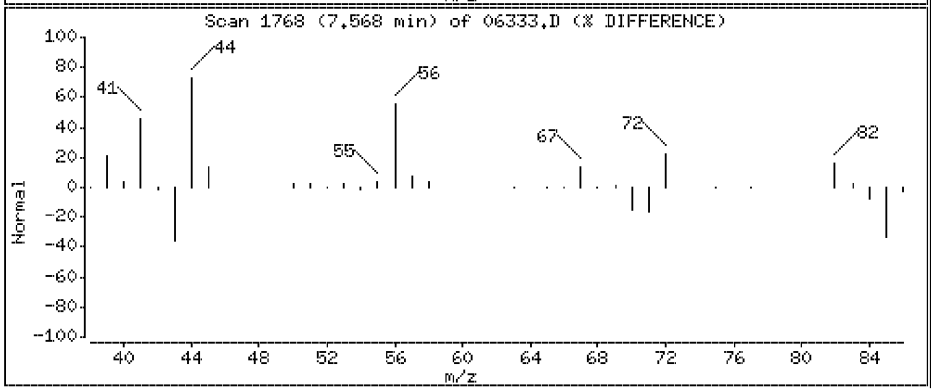
63 n-Octane

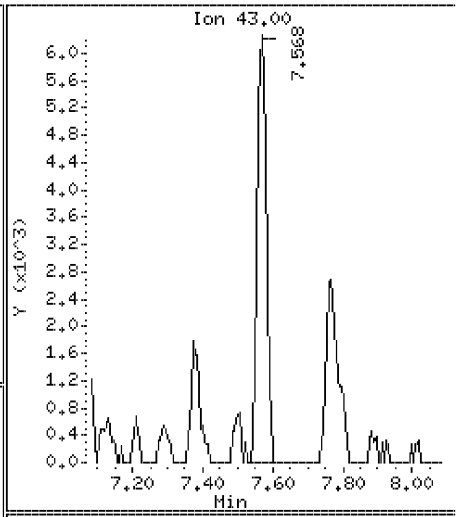
Concentration: 0.747 ppbv

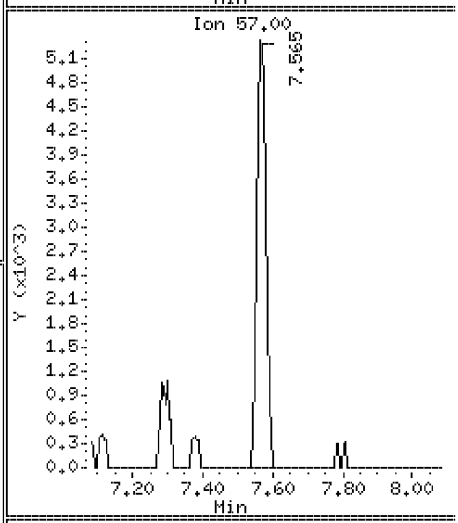


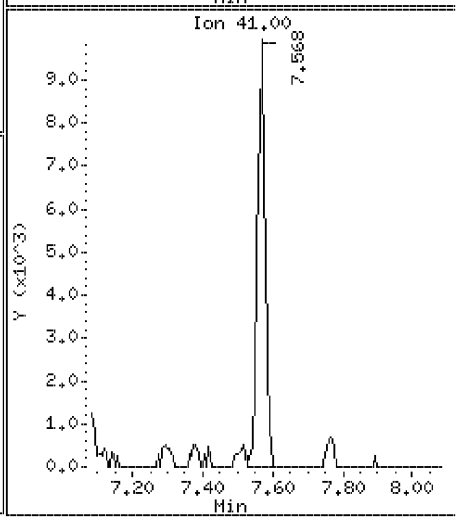












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

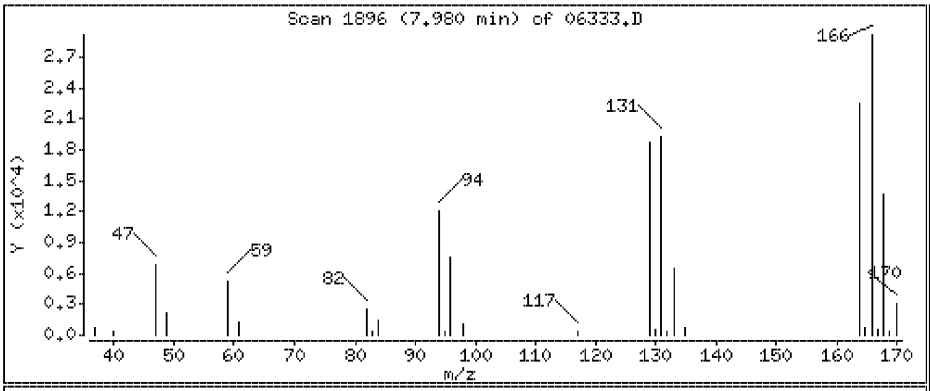
Operator: MJL

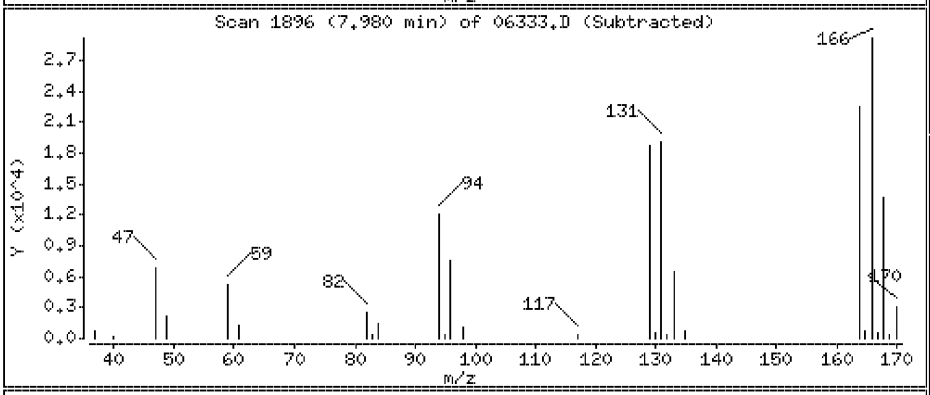
Column phase: J&W DB-5

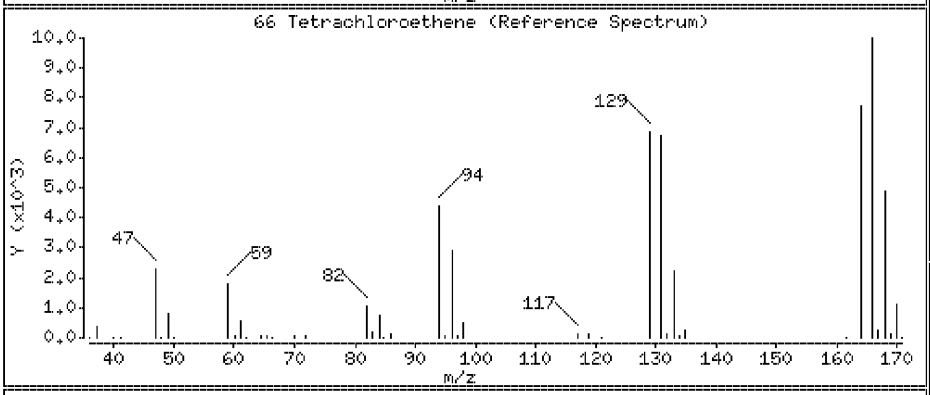
Column diameter: 0.32

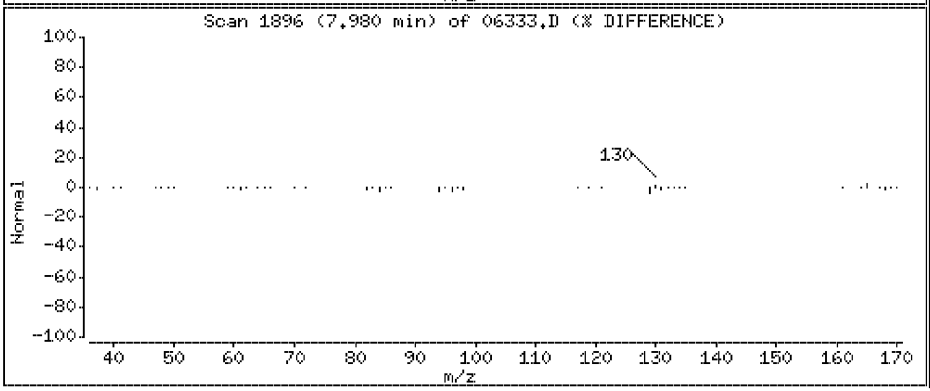
66 Tetrachloroethene

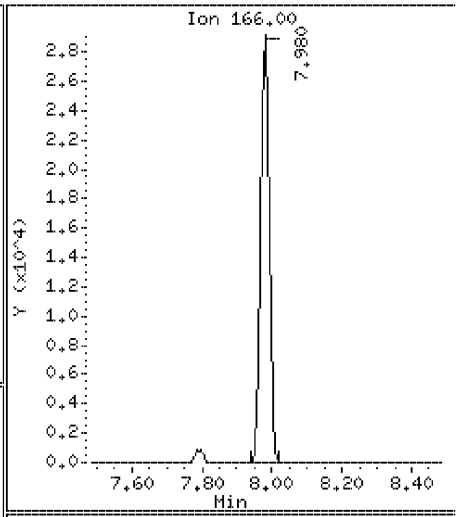
Concentration: 3.27 ppbv

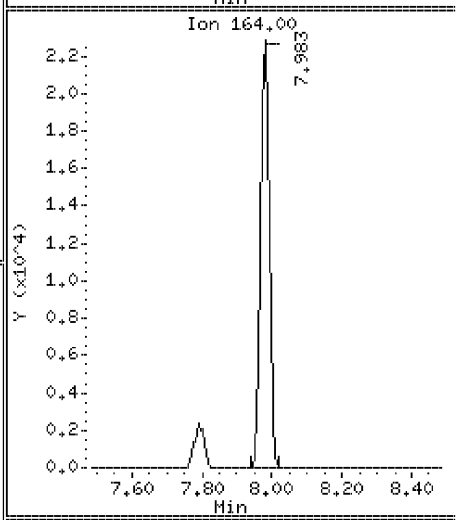


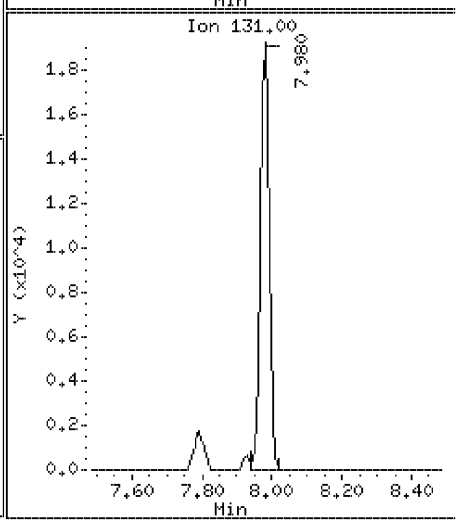












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

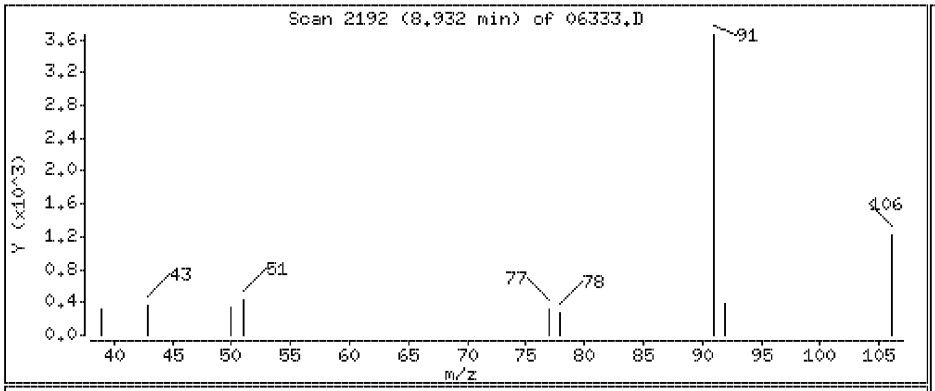
Operator: MJL

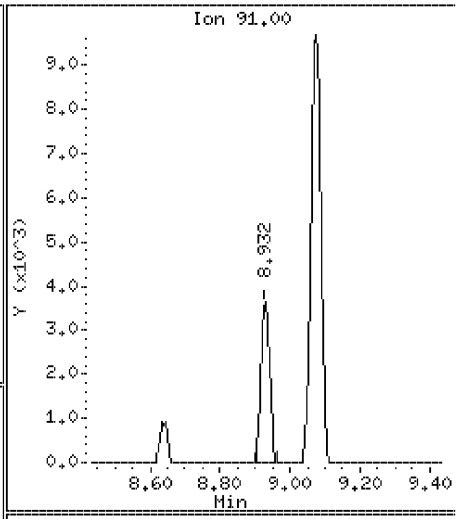
Column phase: J&W DB-5

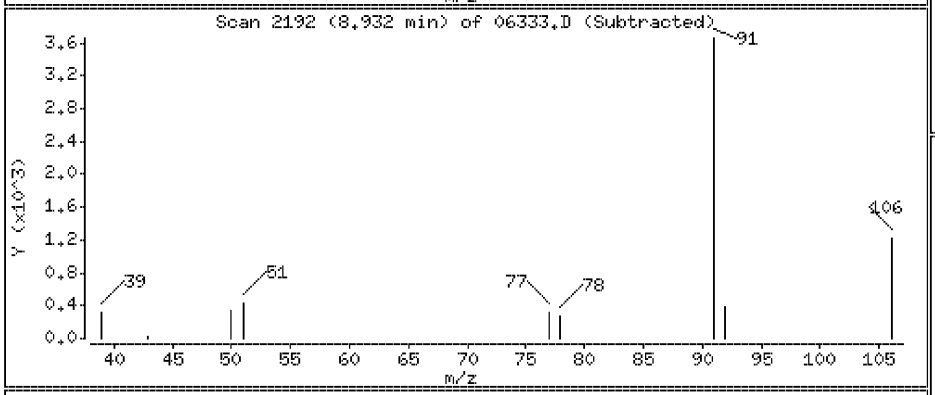
Column diameter: 0.32

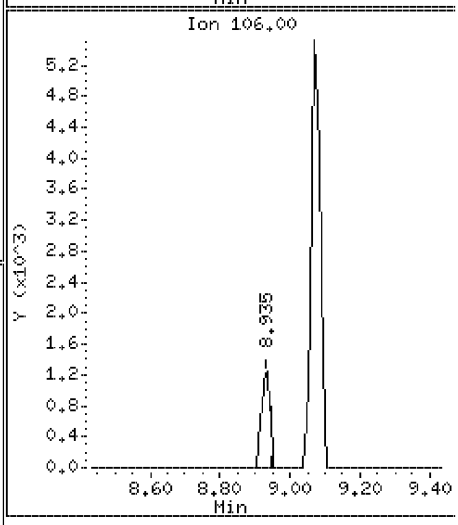
69 Ethyl Benzene

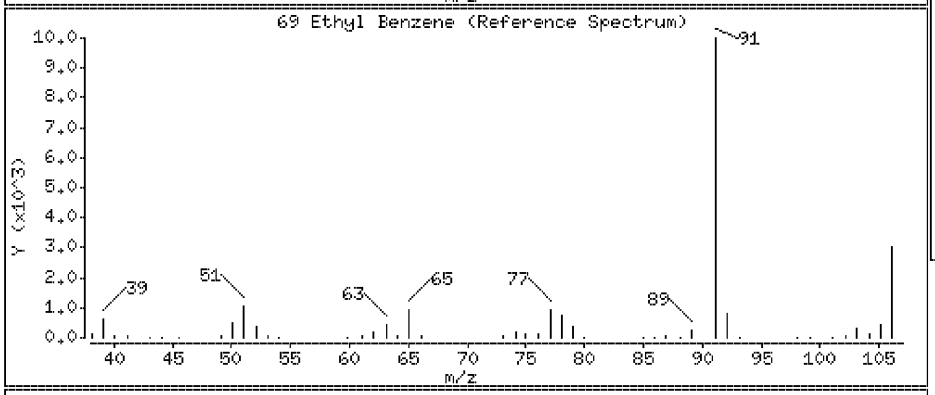
Concentration: 0.196 ppbv

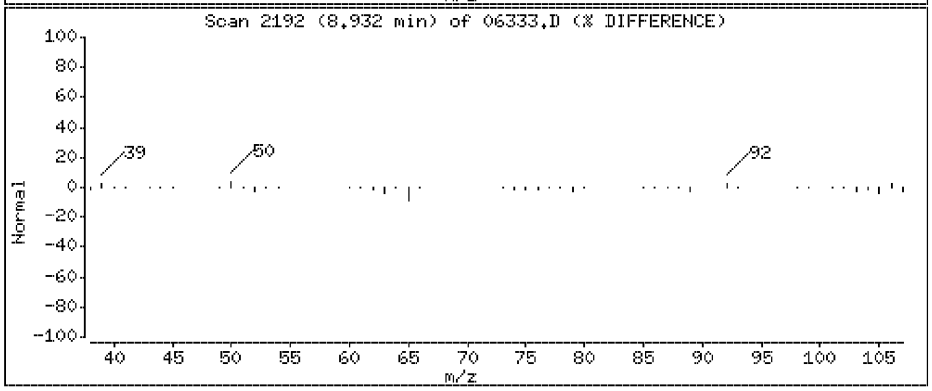












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

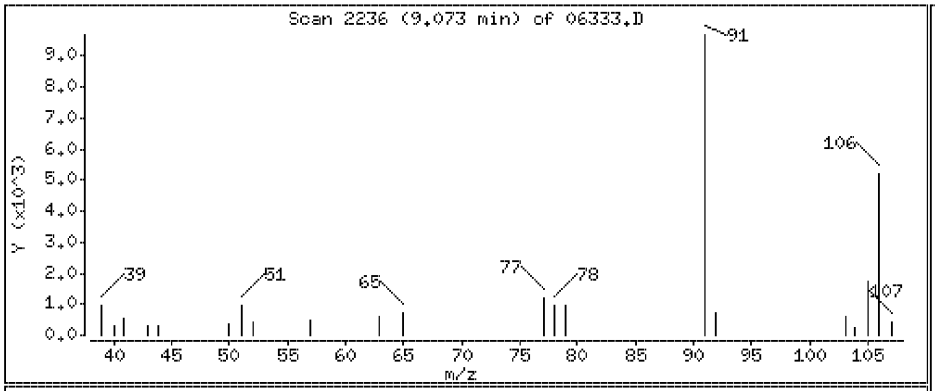
Operator: MJL

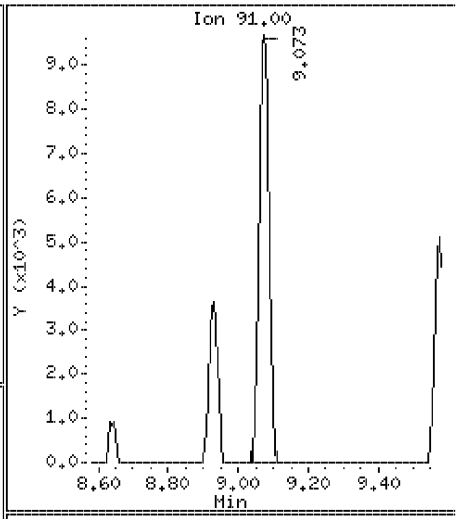
Column phase: J&W DB-5

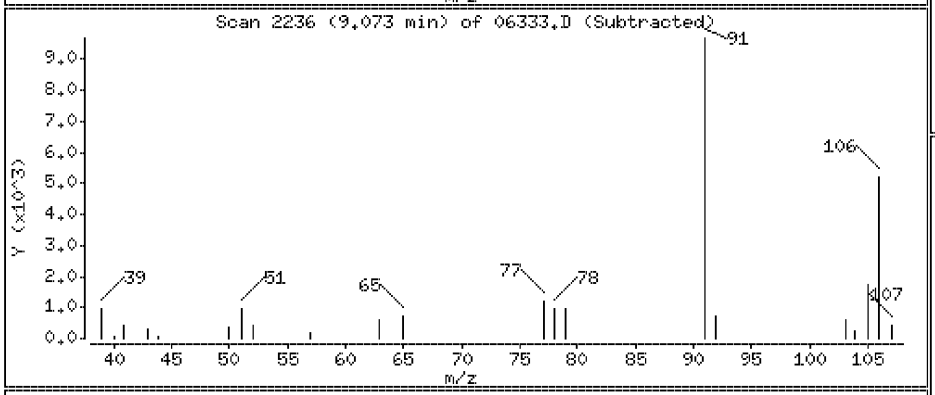
Column diameter: 0.32

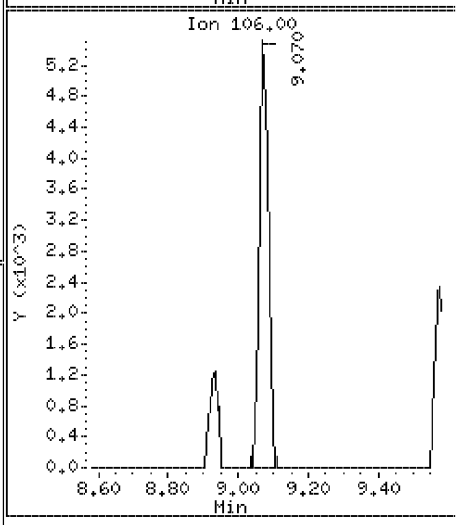
70 m&p-Xylene

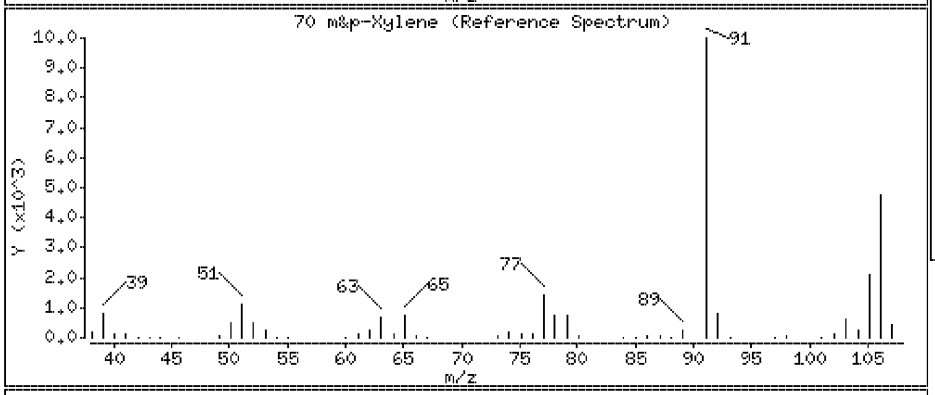
Concentration: 0.755 ppbv

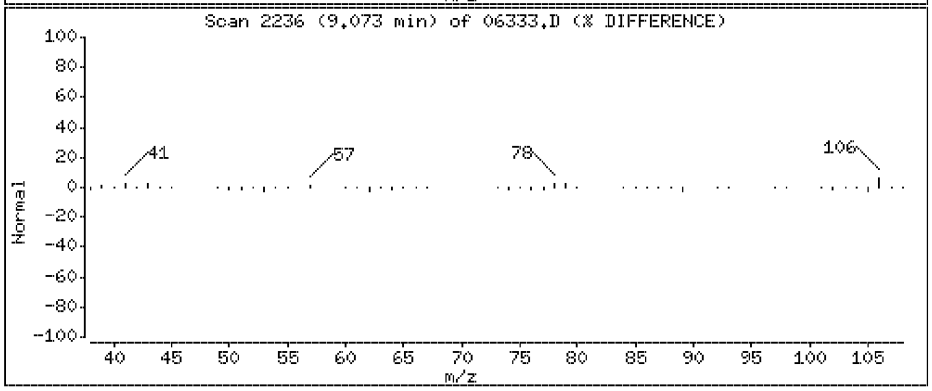












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

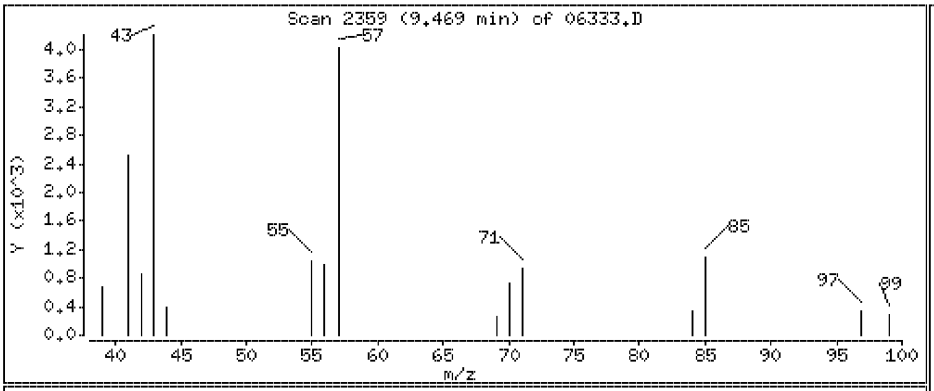
Operator: MJL

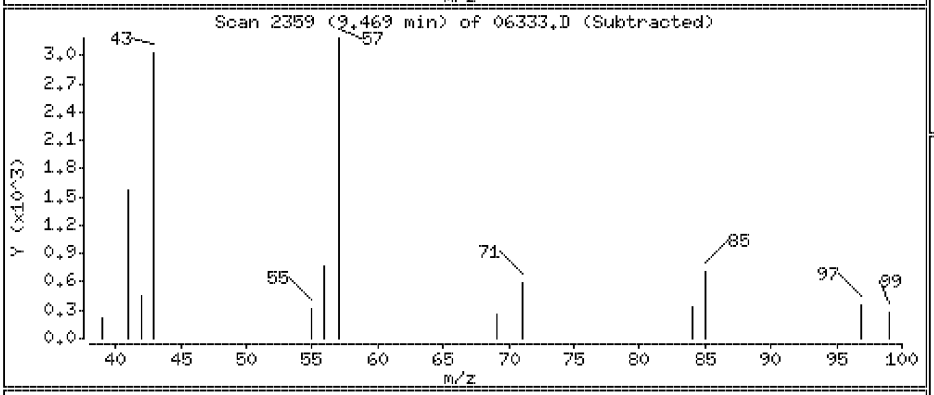
Column phase: J&W DB-5

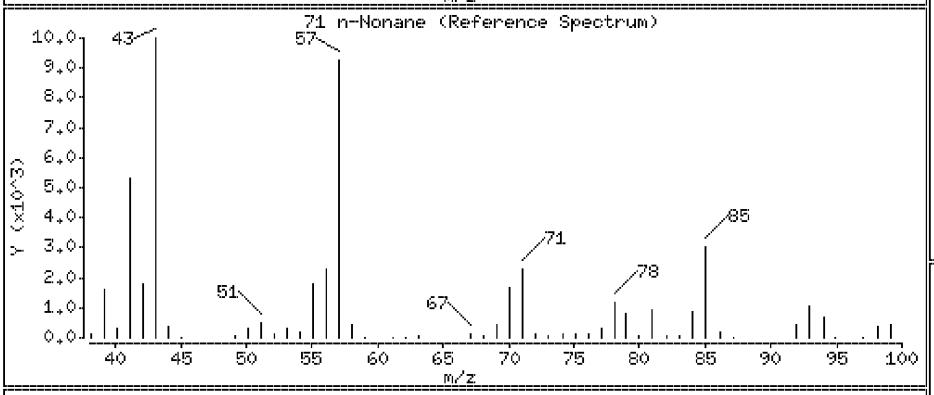
Column diameter: 0.32

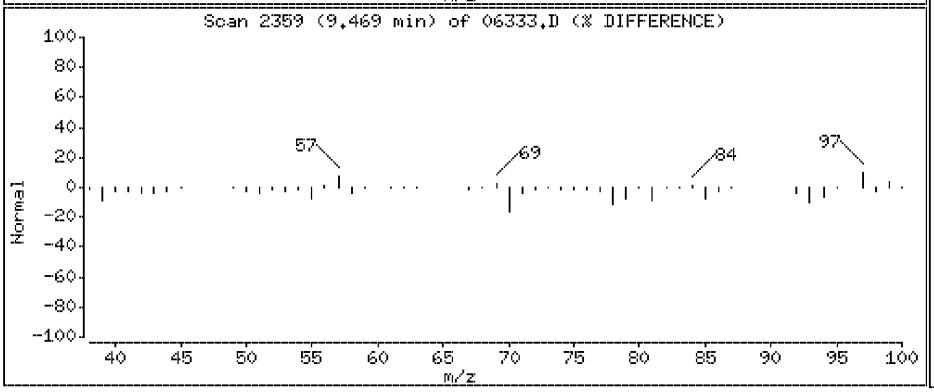
71 n-Nonane

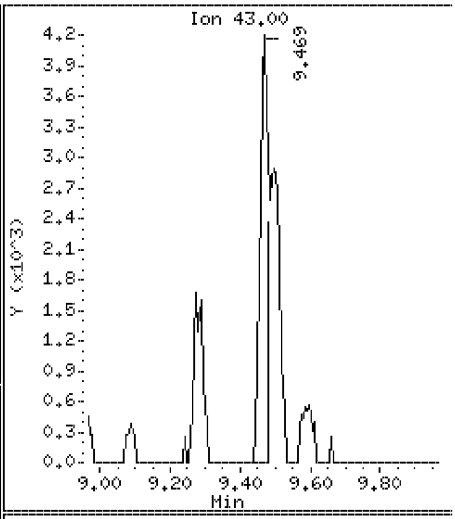
Concentration: 0.492 ppbv

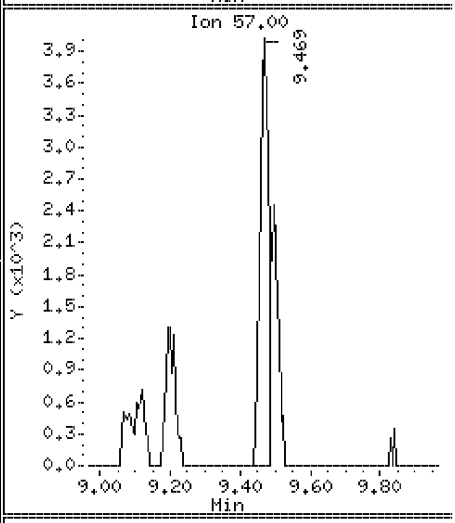


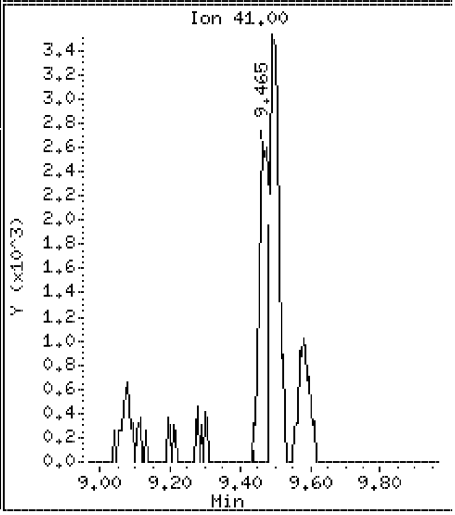












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

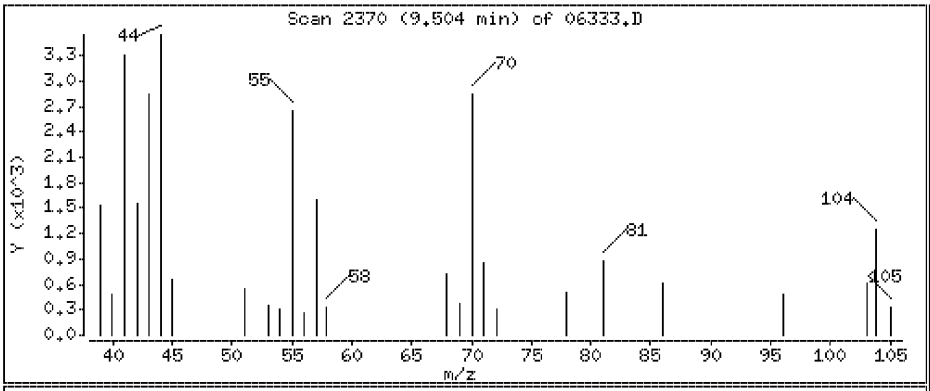
Operator: MJL

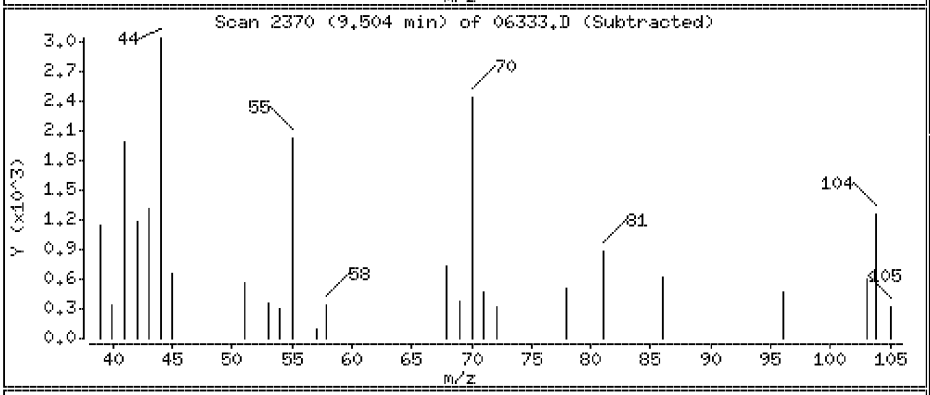
Column phase: J&W DB-5

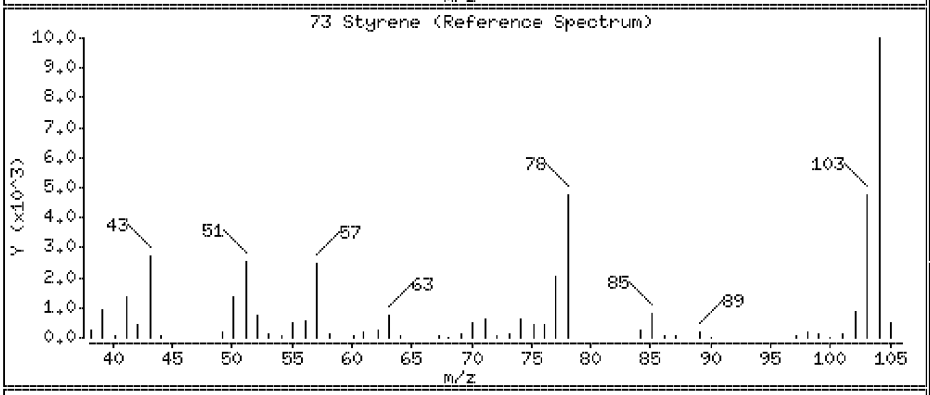
Column diameter: 0.32

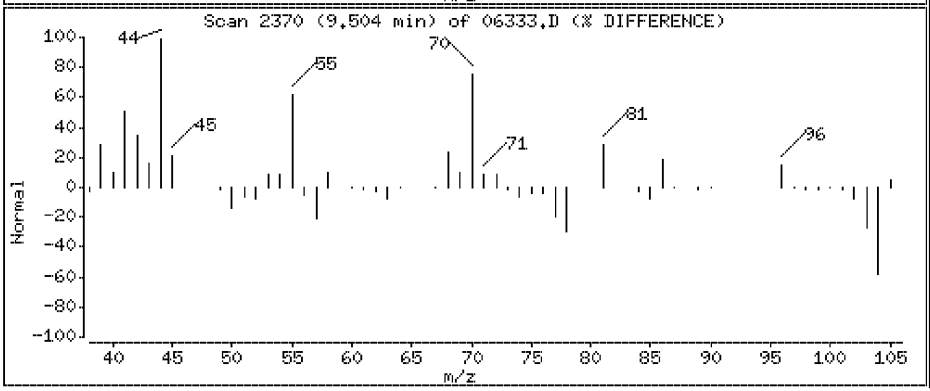
73 Styrene

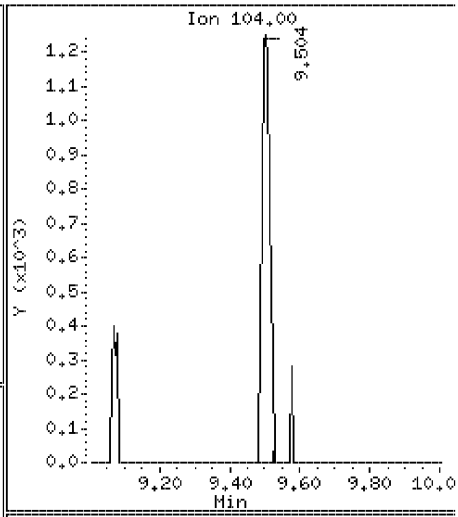
Concentration: 0.230 ppbv

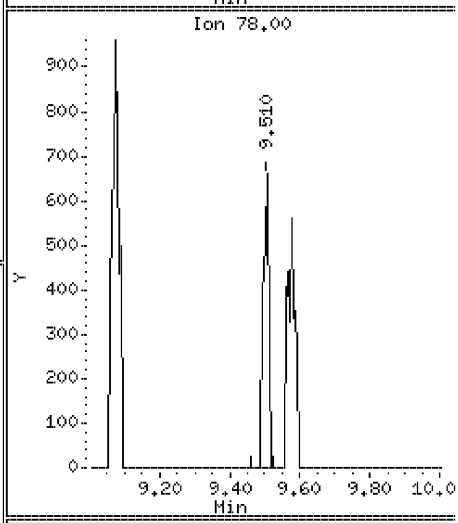


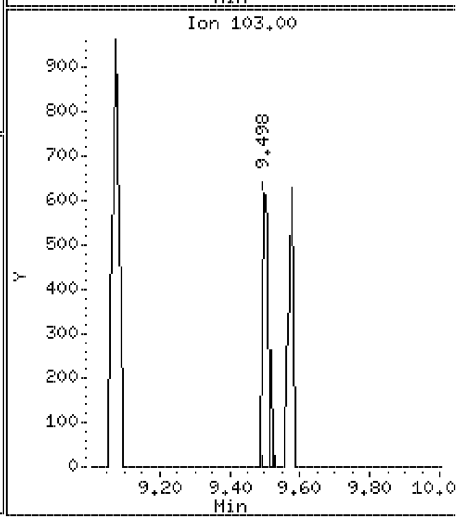












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

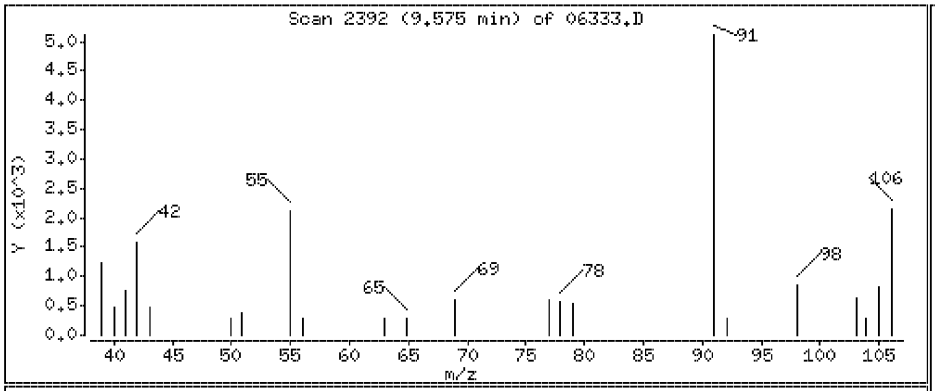
Operator: MJL

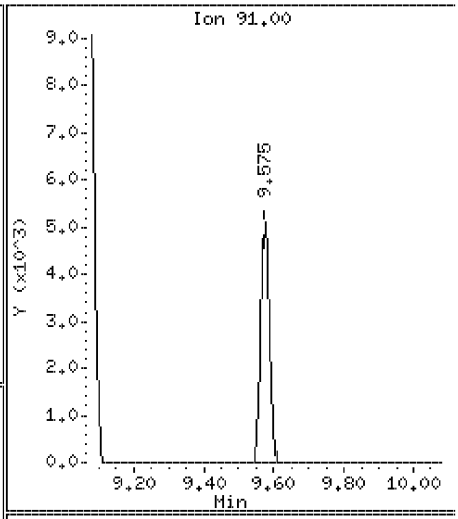
Column phase: J&W DB-5

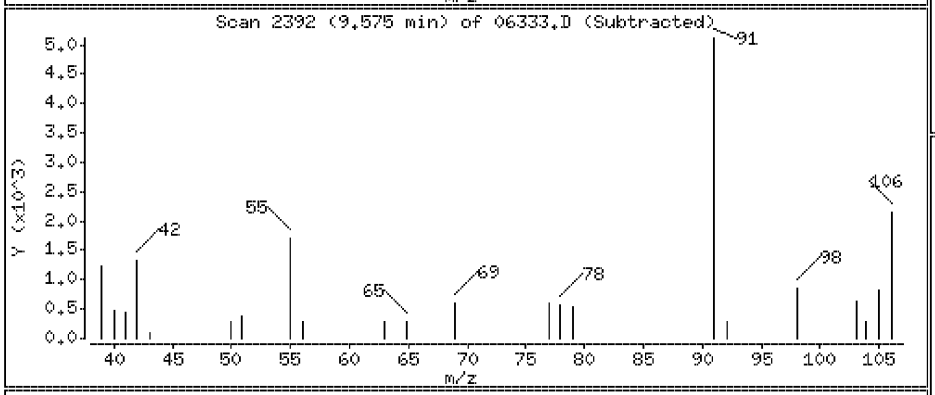
Column diameter: 0.32

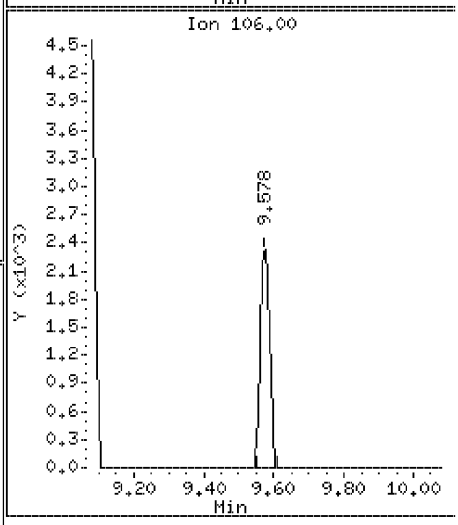
74 o-Xylene

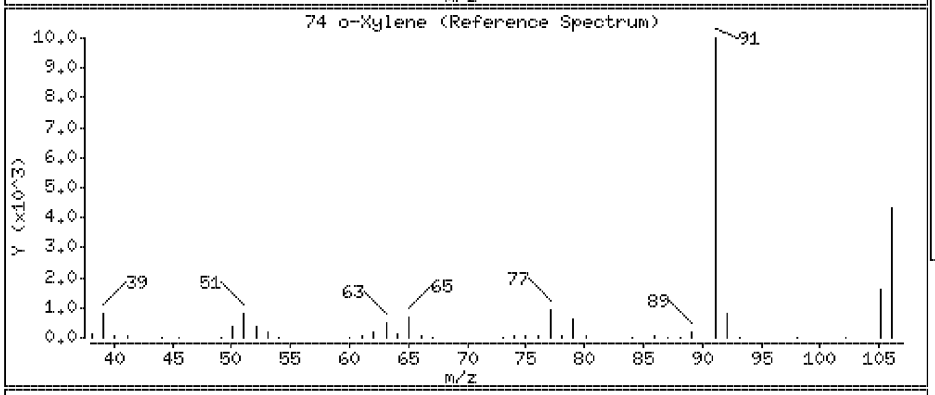
Concentration: 0.348 ppbv

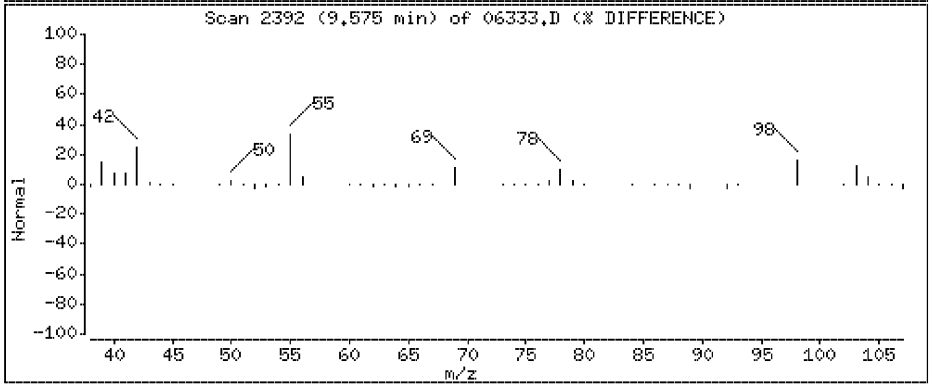












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

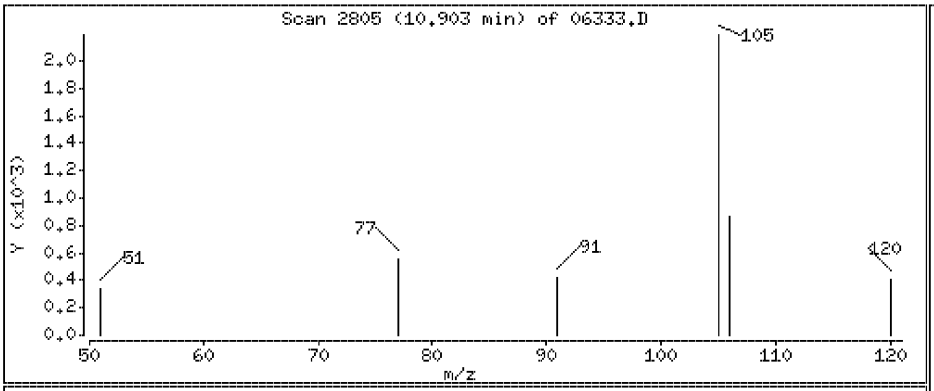
Operator: MJL

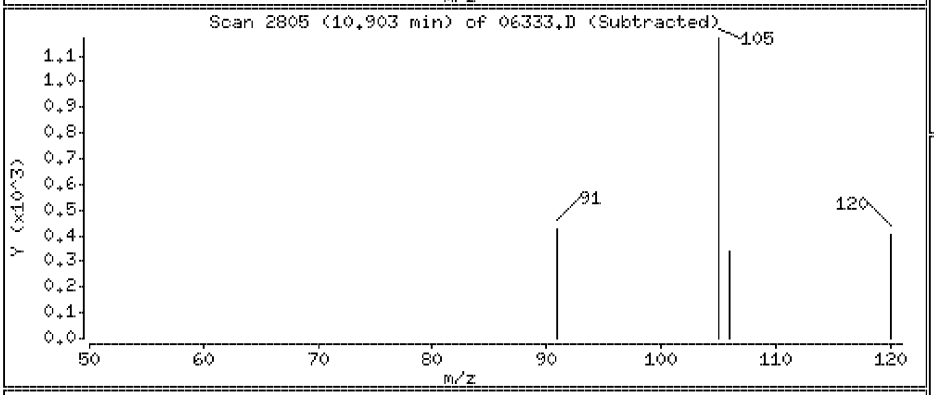
Column phase: J&W DB-5

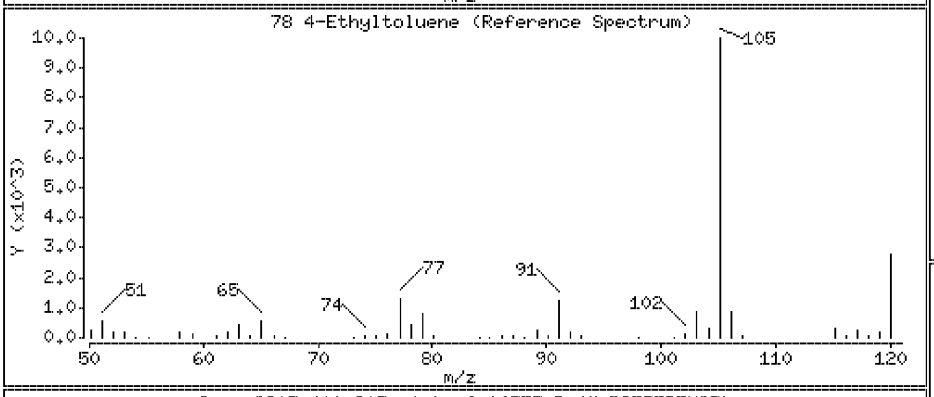
Column diameter: 0.32

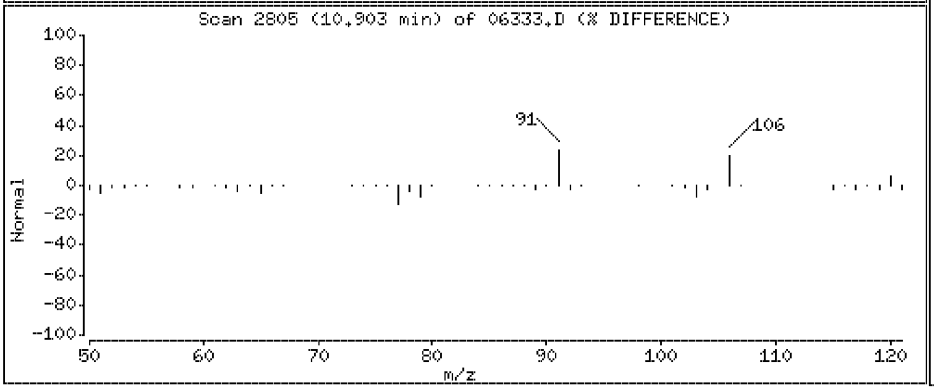
78 4-Ethyltoluene

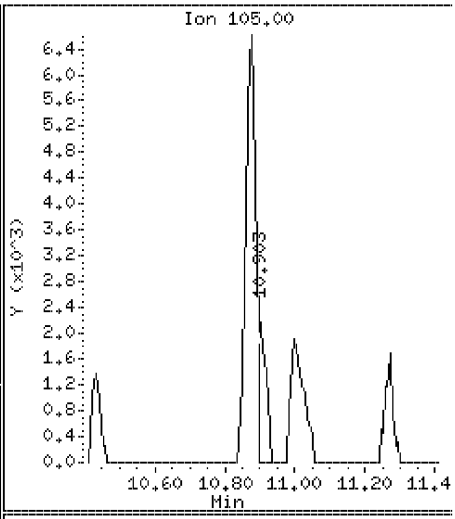
Concentration: 0.256 ppbv

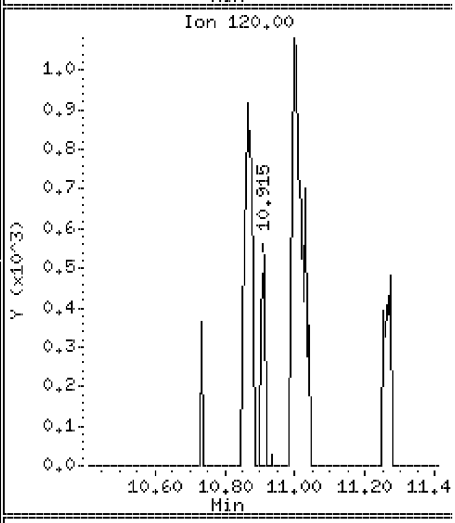


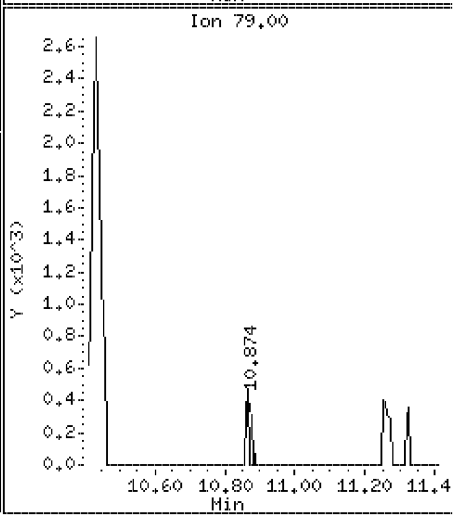












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

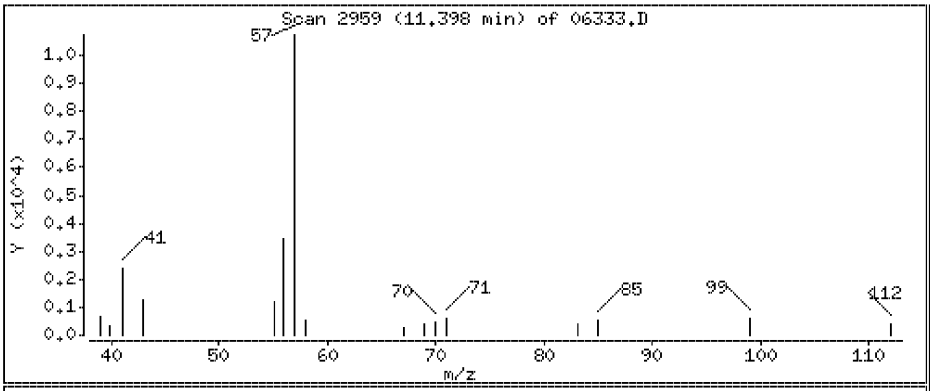
Operator: MJL

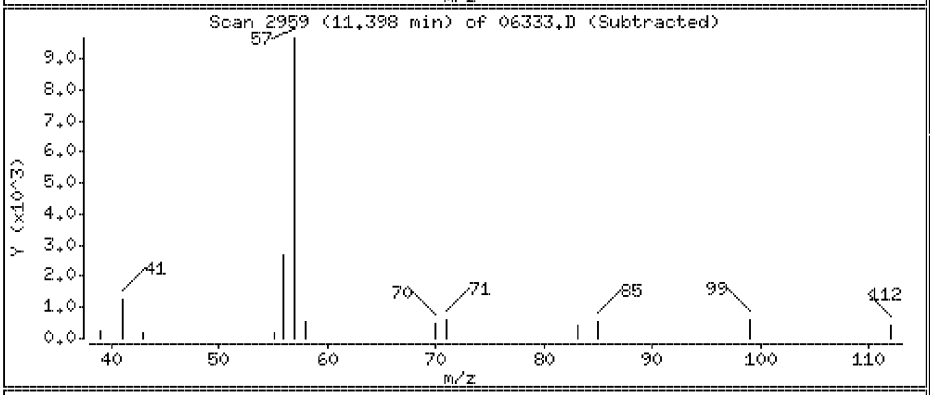
Column phase: J&W DB-5

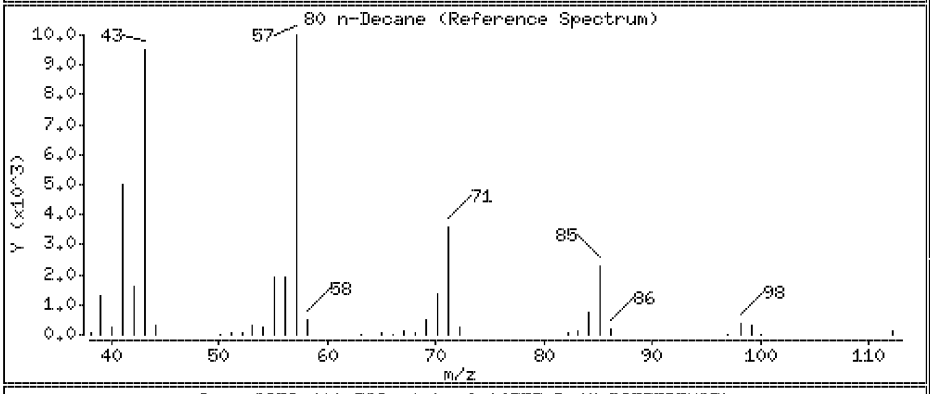
Column diameter: 0.32

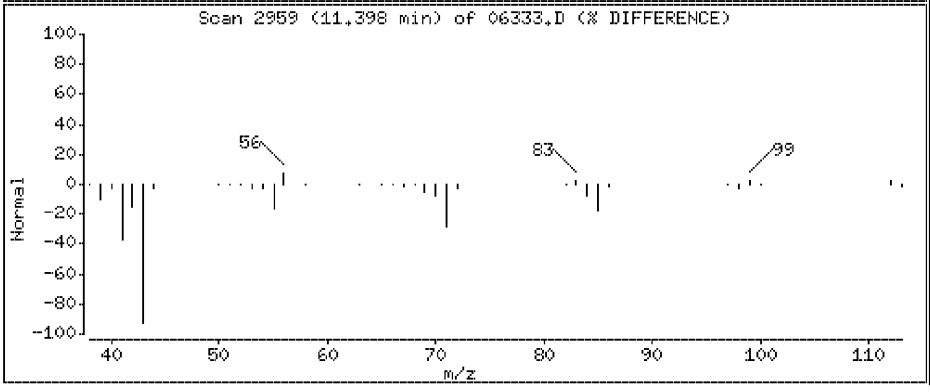
80 n-Decane

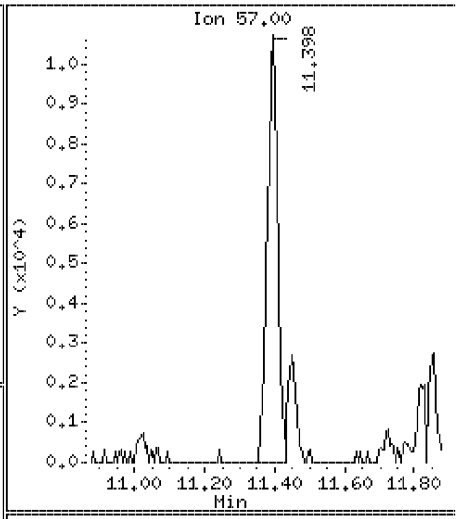
Concentration: 1.74 ppbv

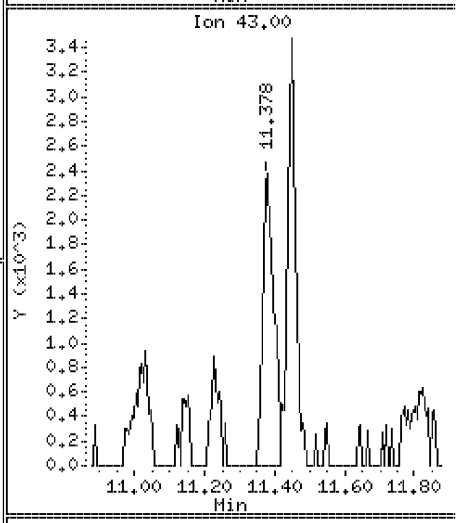


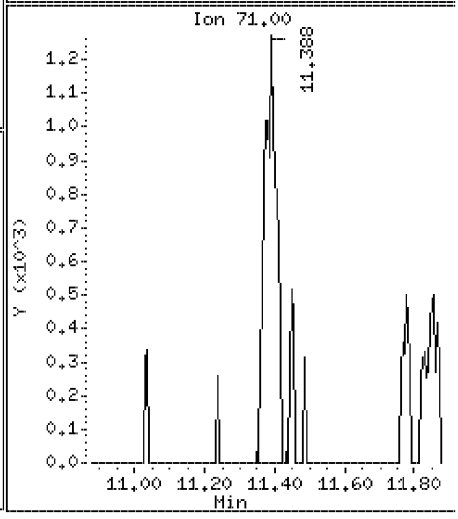












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

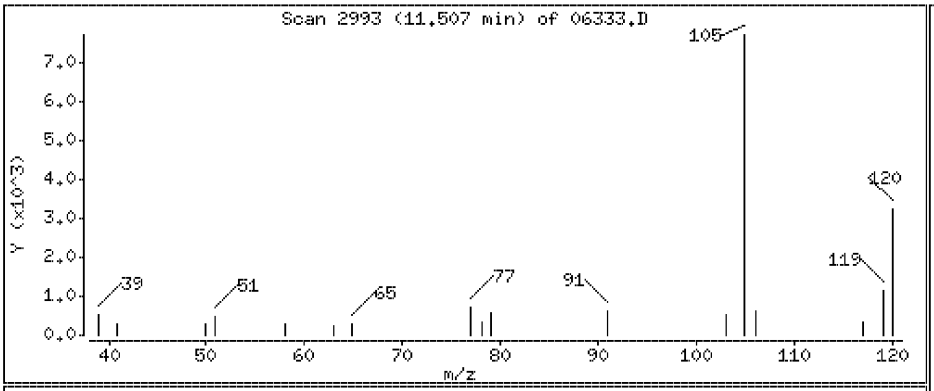
Operator: MJL

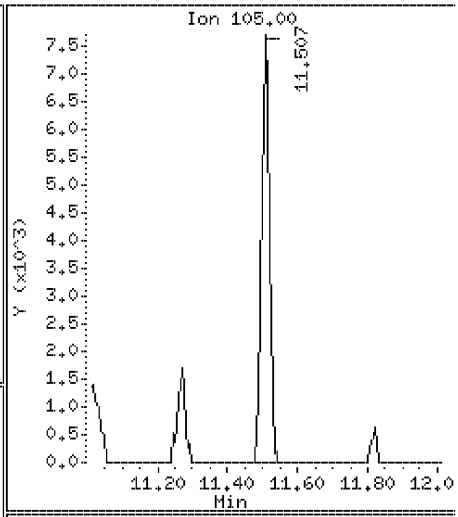
Column phase: J&W DB-5

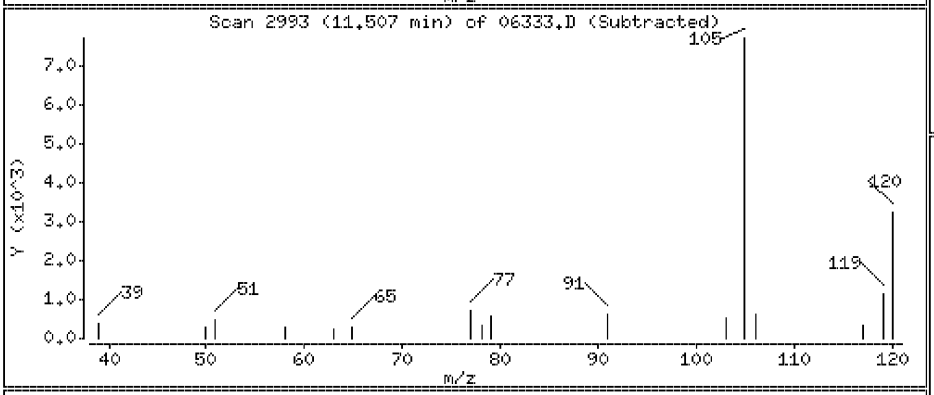
Column diameter: 0.32

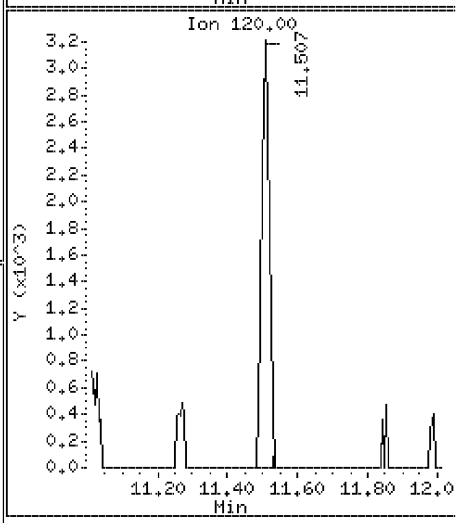
82 1,2,4-Trimethylbenzene

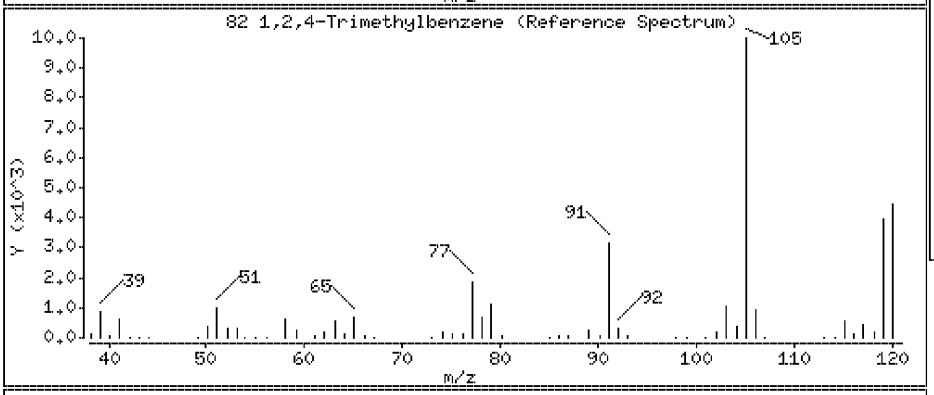
Concentration: 0.451 ppbv

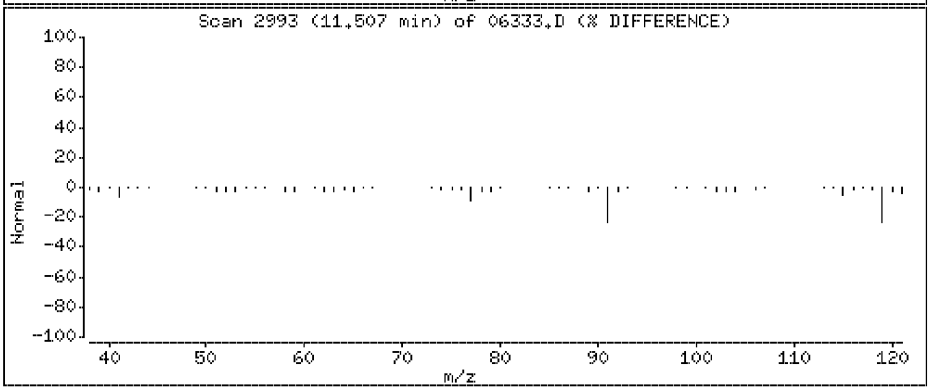












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06333.D

Date : 04-MAR-2017 23:20

Client ID:

Instrument: 10airB.i

Sample Info:

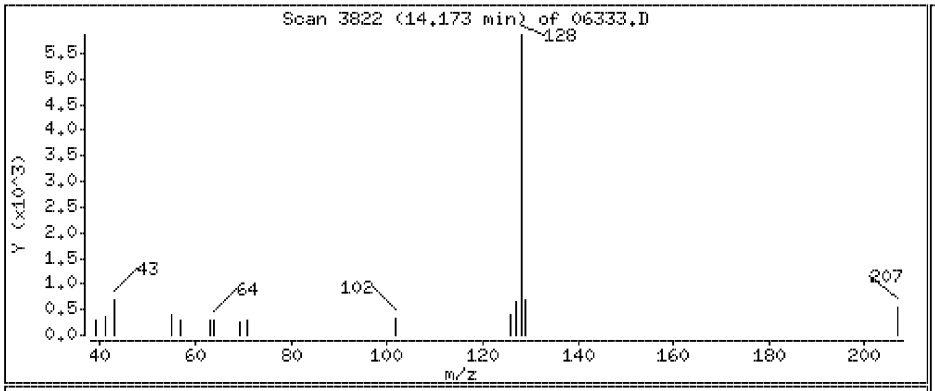
Operator: MJL

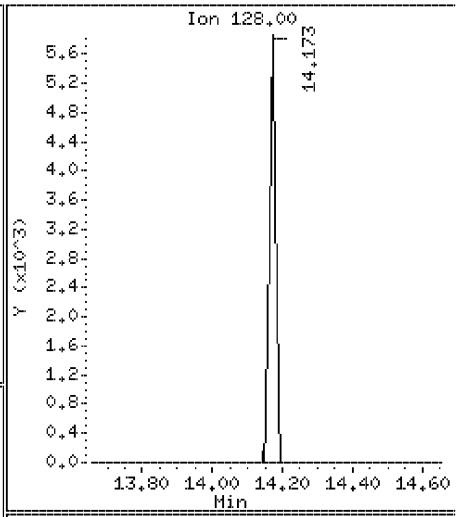
Column phase: J&W DB-5

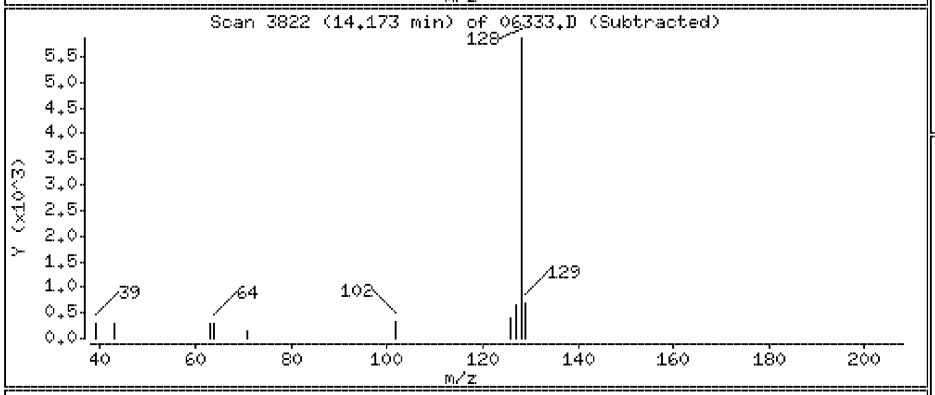
Column diameter: 0.32

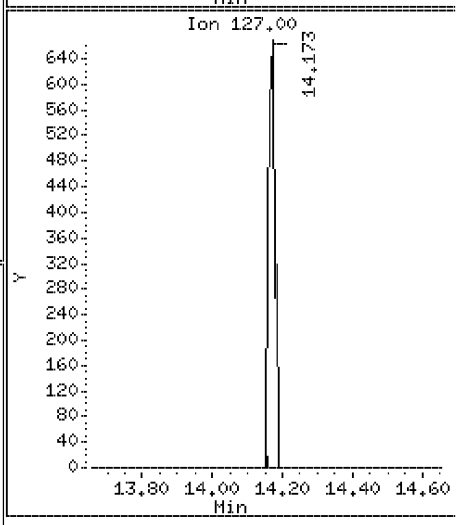
94 Naphthalene

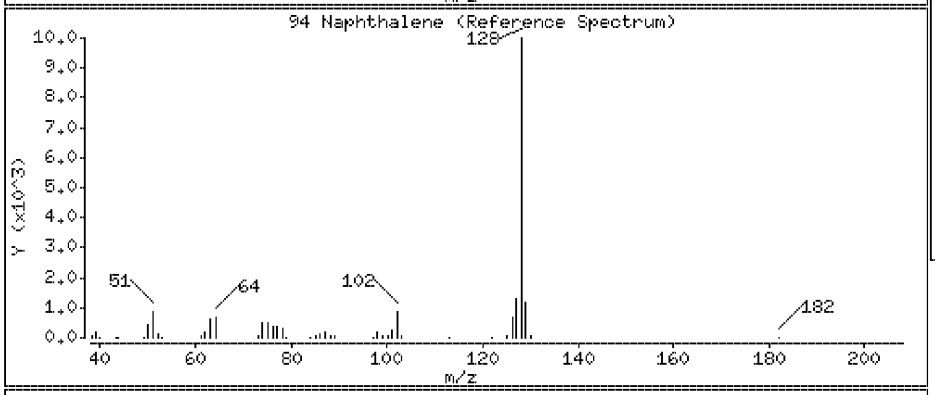
Concentration: 1.00 ppbv

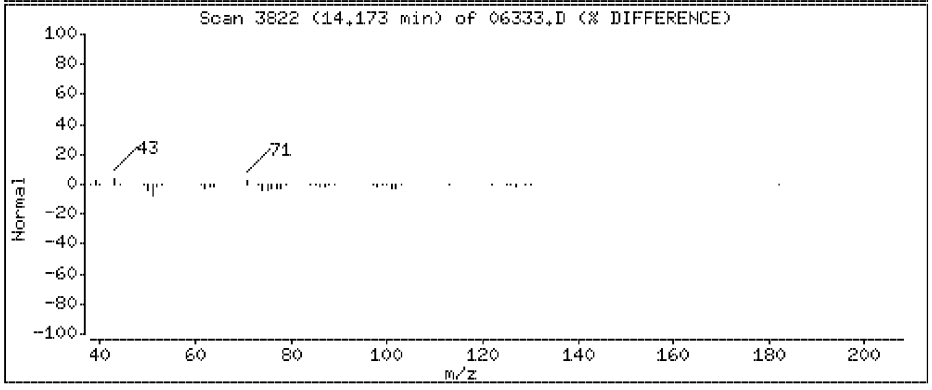






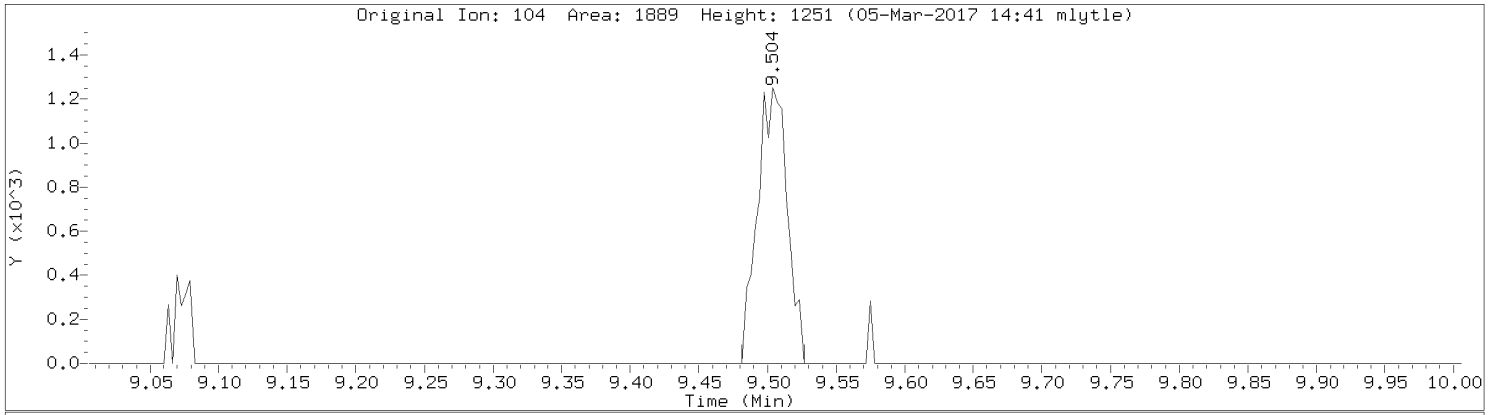


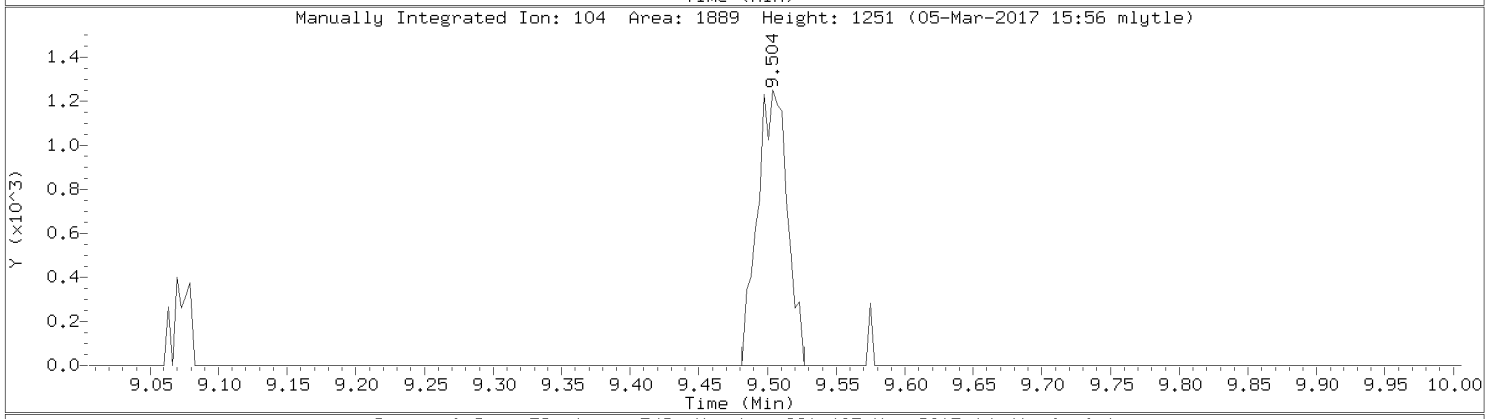


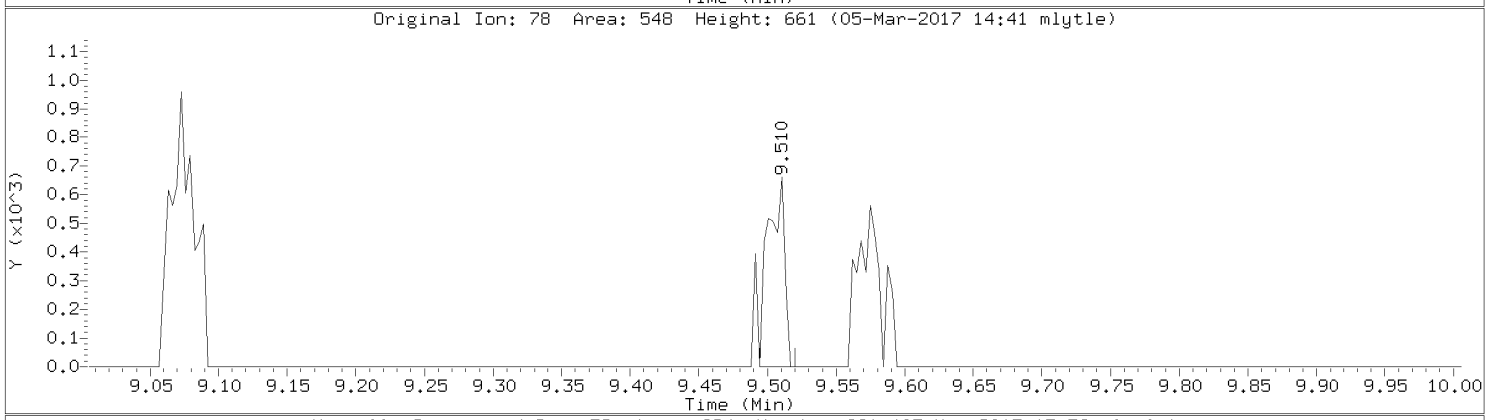


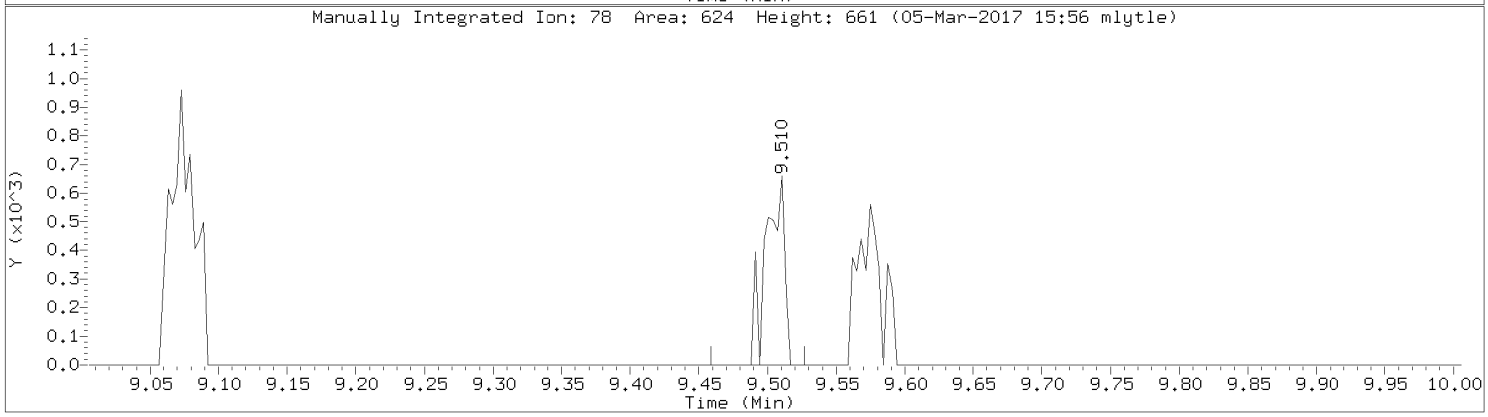
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06333.D
Injection Date: 04-MAR-2017 23:20
Instrument: 10airB.i
Lab Sample ID: 10379458006

Compound: Styrene
CAS Number: 100-42-5

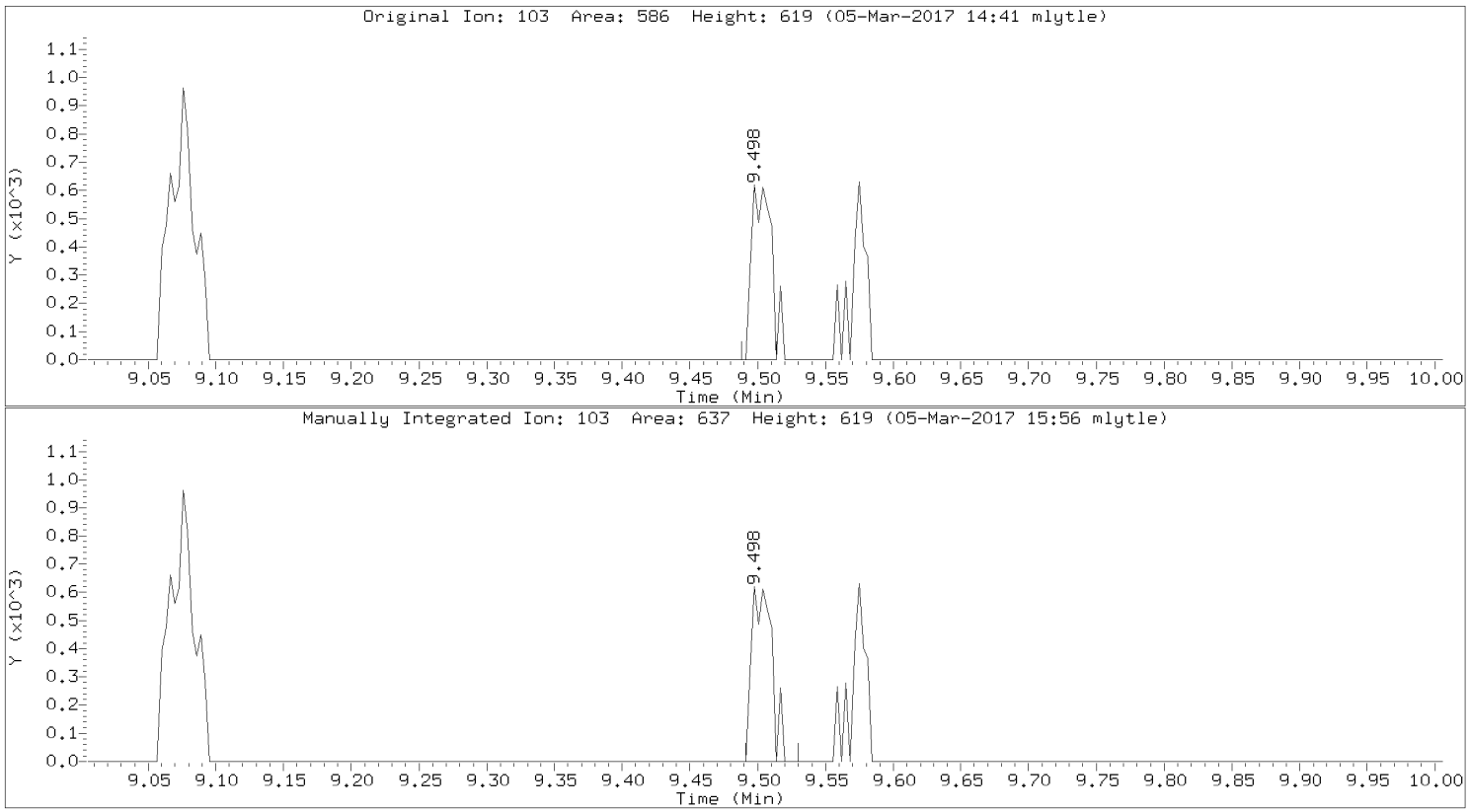






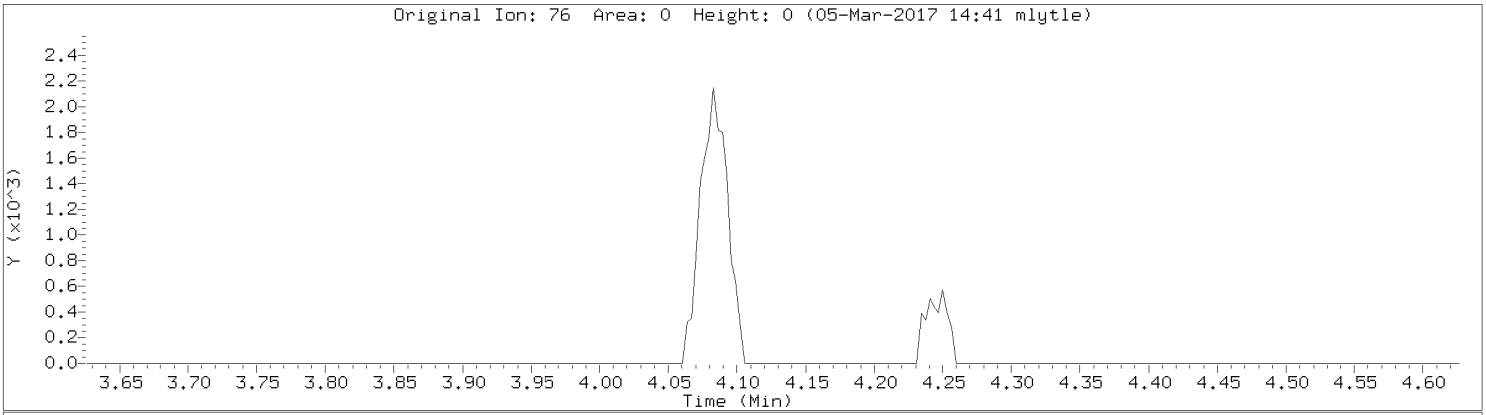


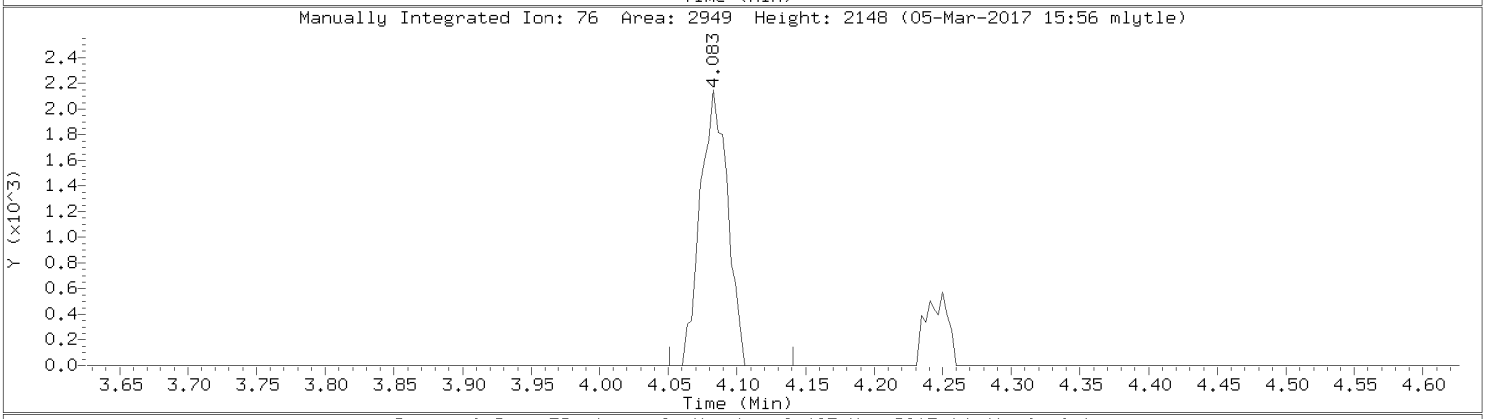
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06333.D
Injection Date: 04-MAR-2017 23:20
Instrument: 10airB.i
Lab Sample ID: 10379458006

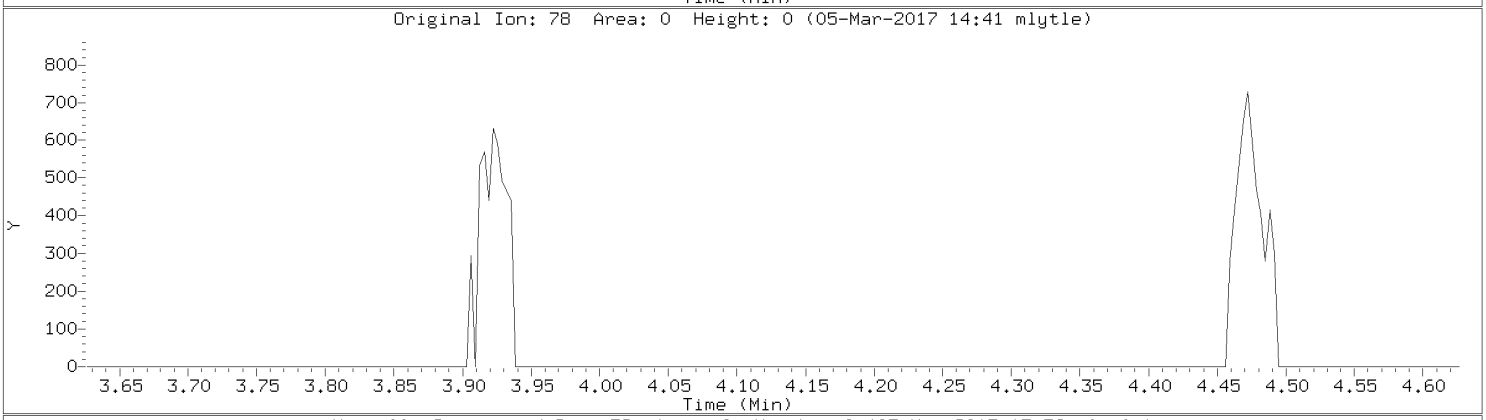


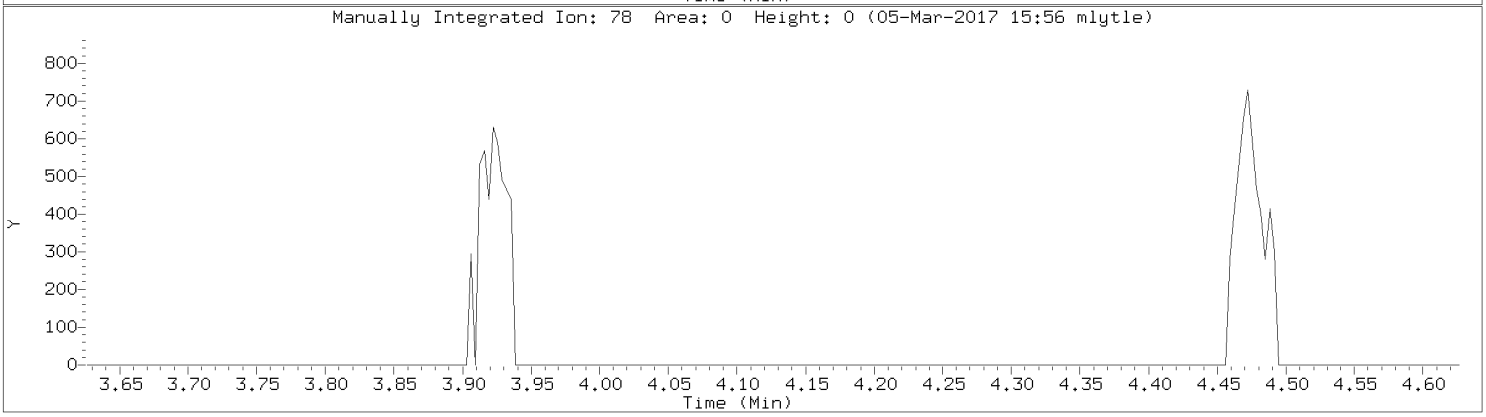
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06333.D
Injection Date: 04-MAR-2017 23:20
Instrument: 10airB.i
Lab Sample ID: 10379458006

Compound: Carbon Disulfide
CAS Number: 75-15-0



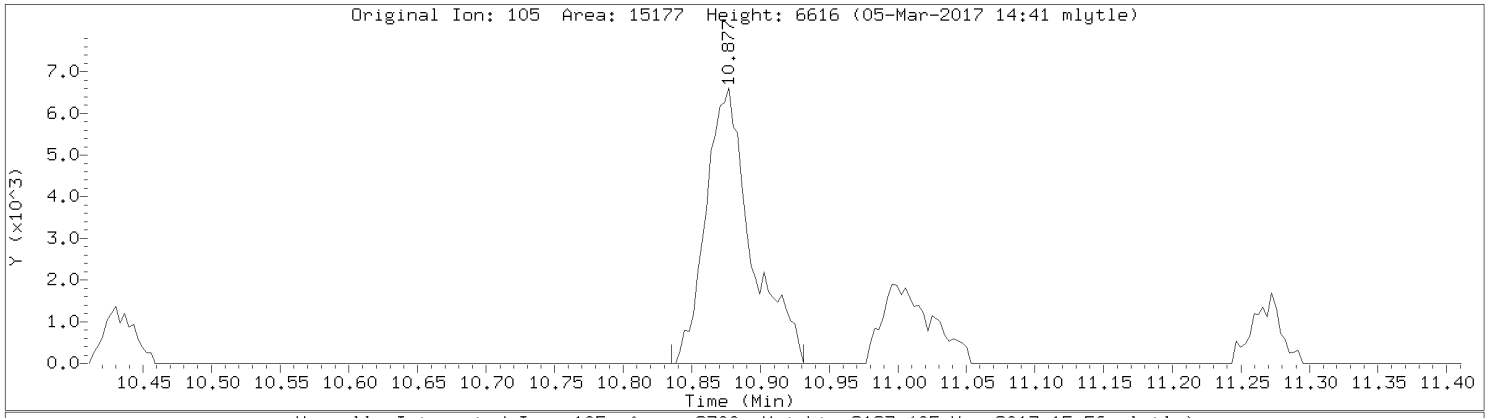


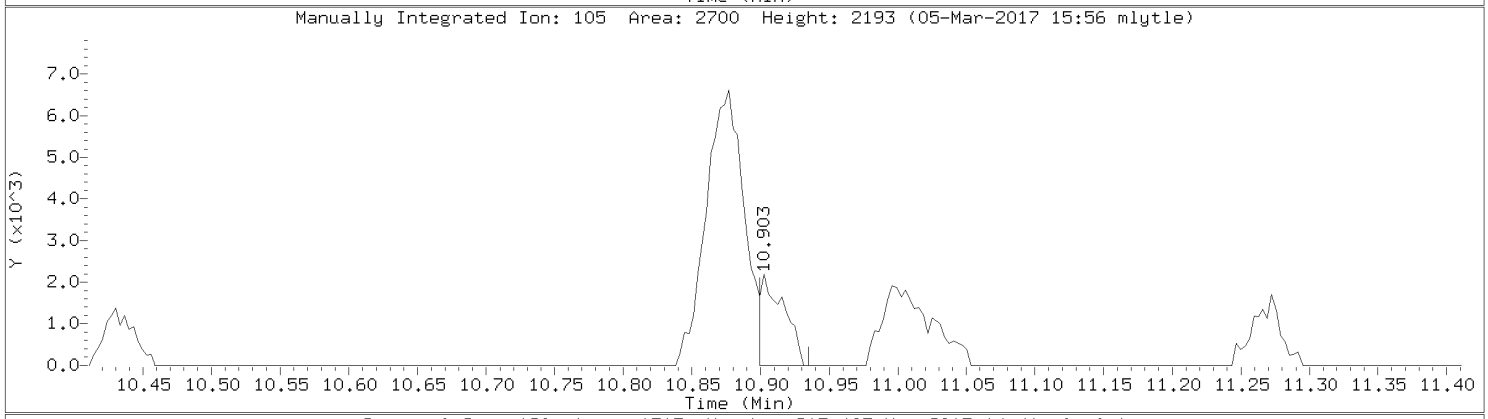


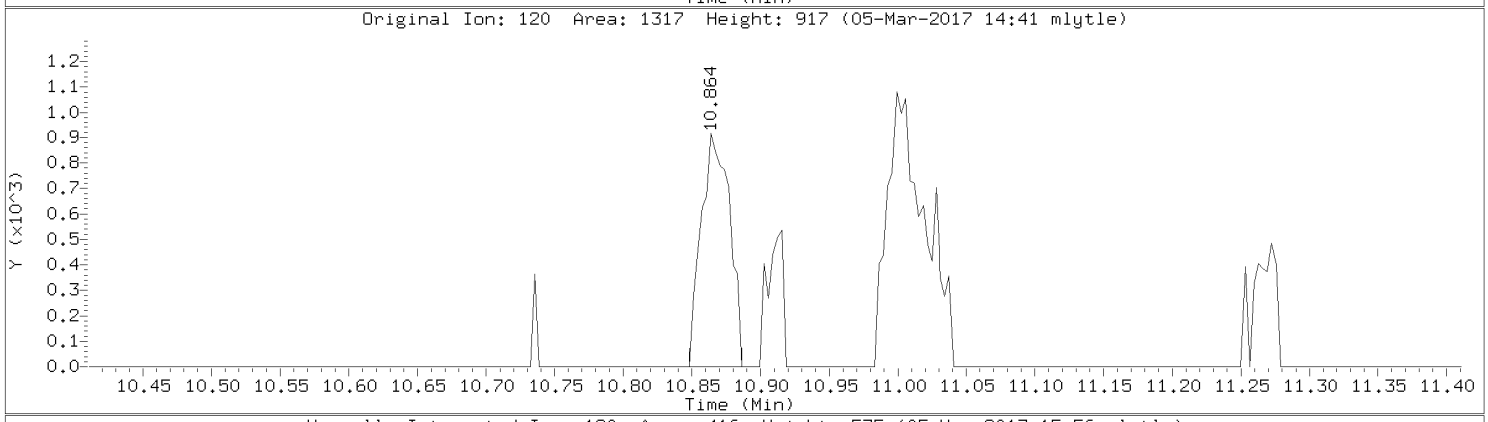


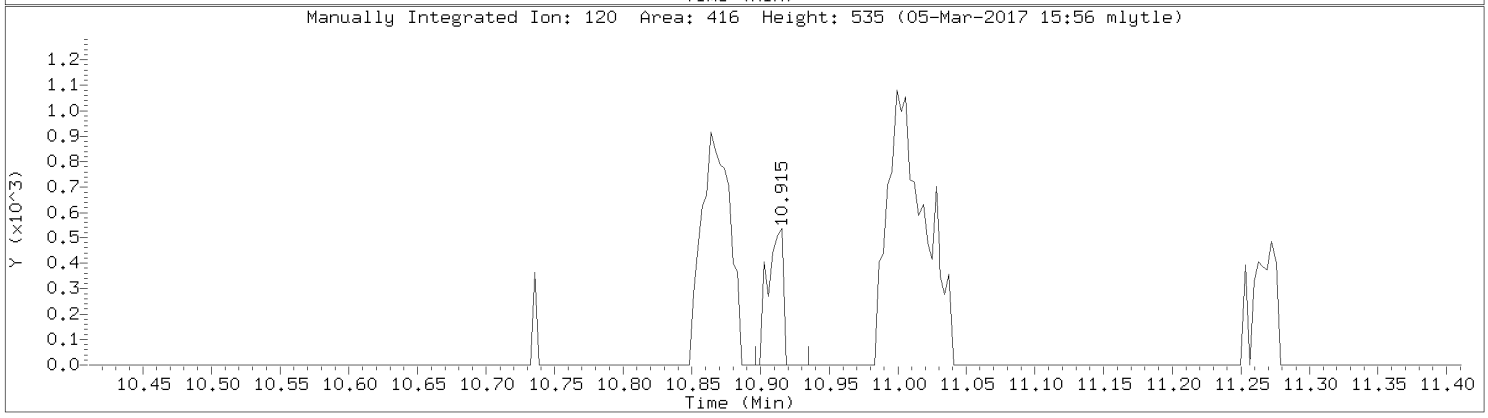
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06333.D
Injection Date: 04-MAR-2017 23:20
Instrument: 10airB.i
Lab Sample ID: 10379458006

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

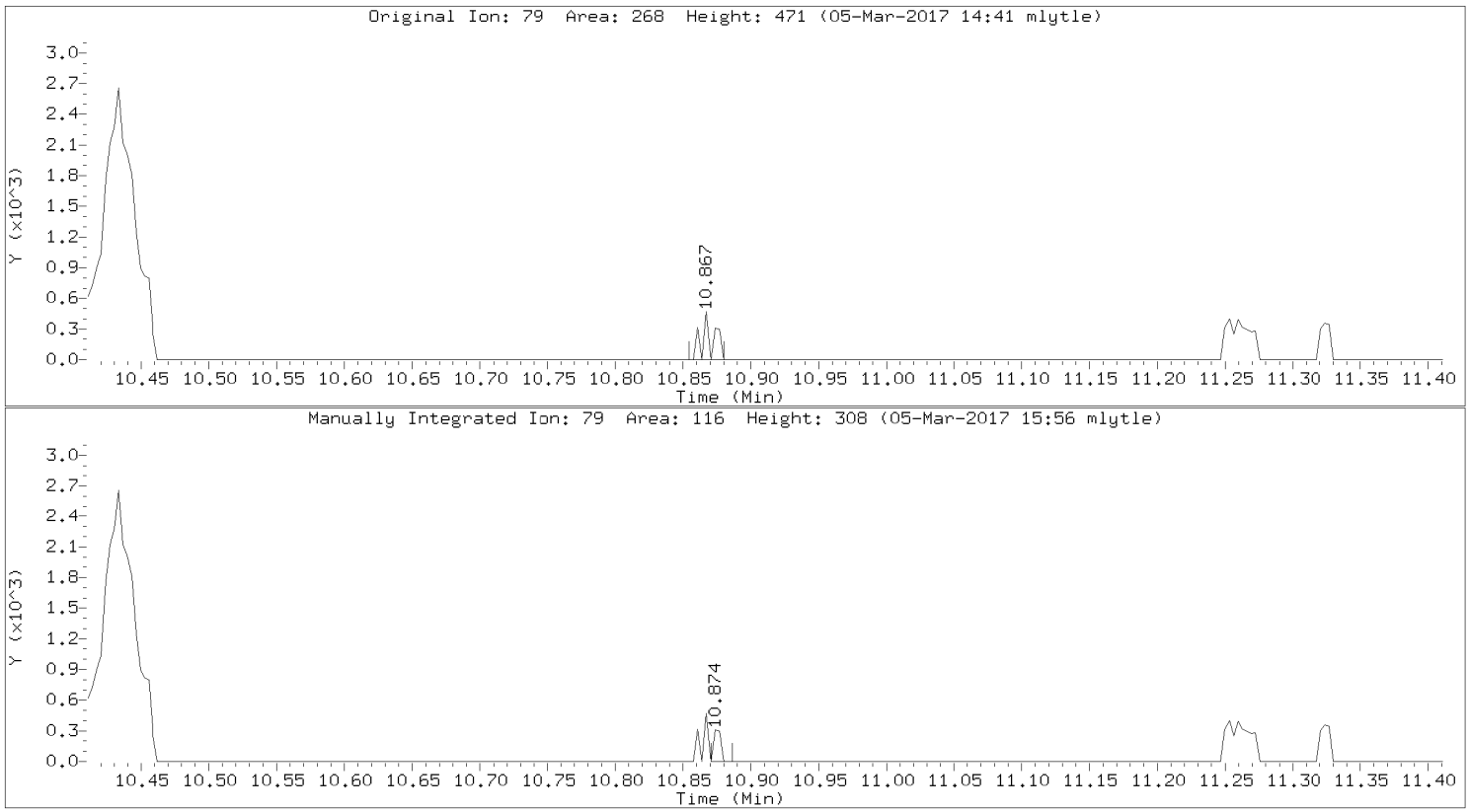






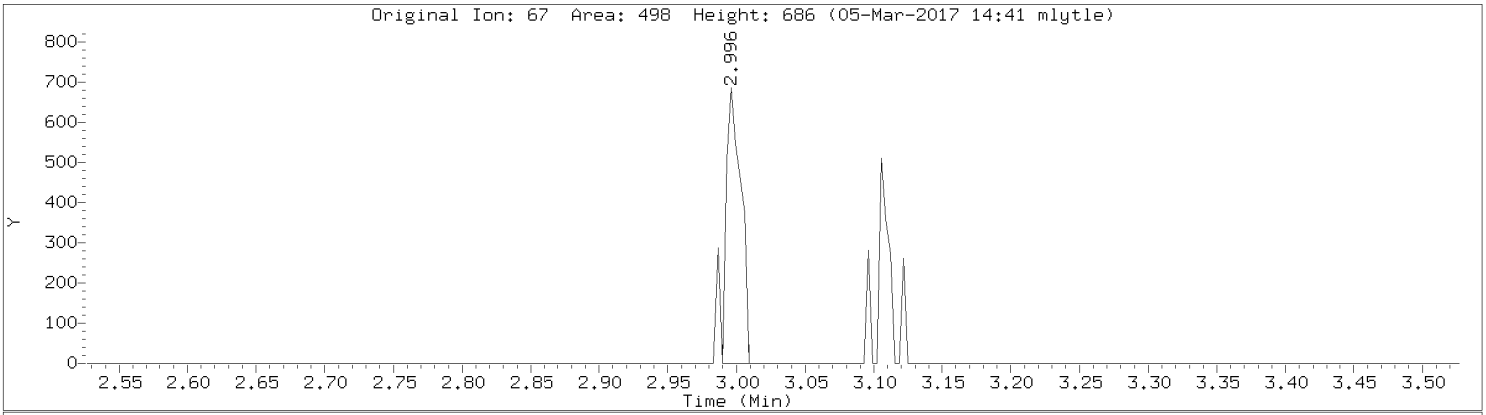


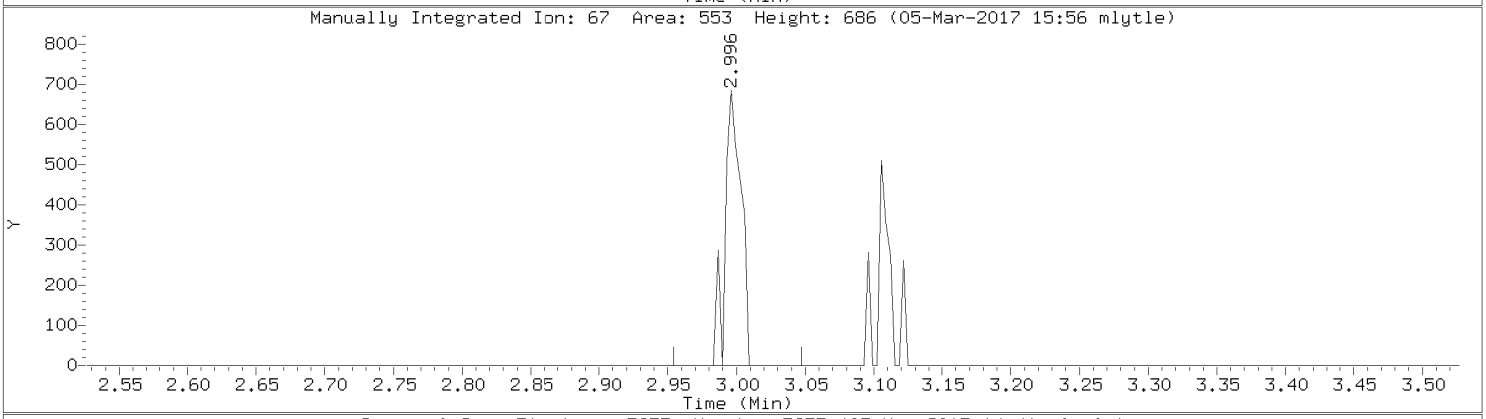
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06333.D
Injection Date: 04-MAR-2017 23:20
Instrument: 10airB.i
Lab Sample ID: 10379458006

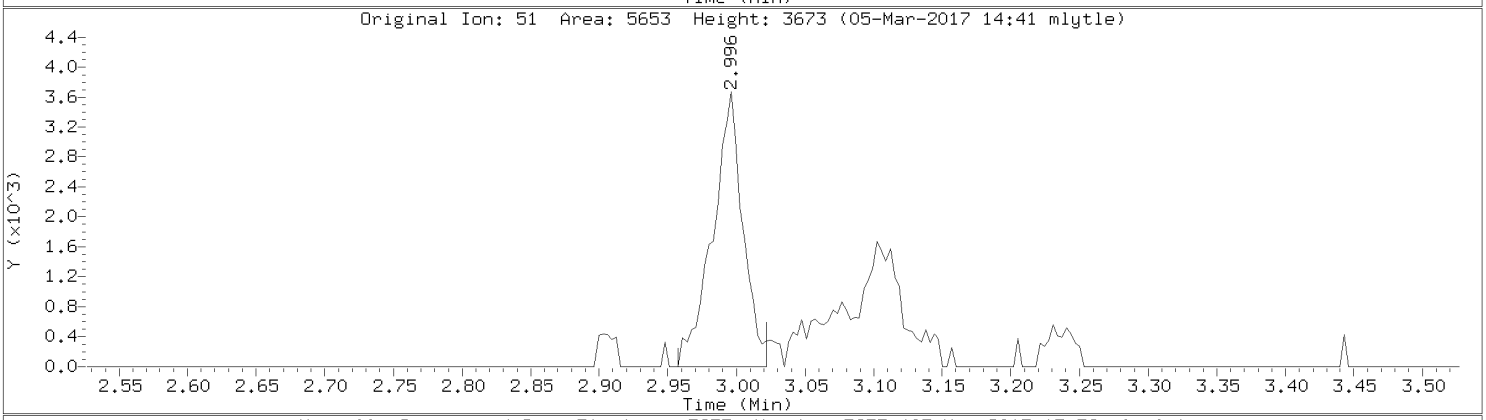


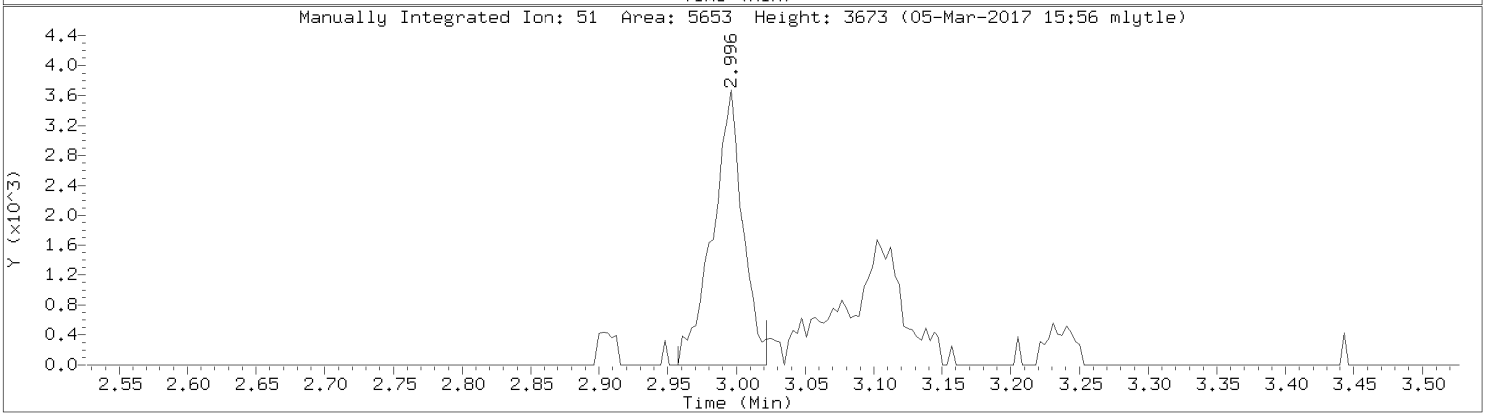
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06333.D
Injection Date: 04-MAR-2017 23:20
Instrument: 10airB.i
Lab Sample ID: 10379458006

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

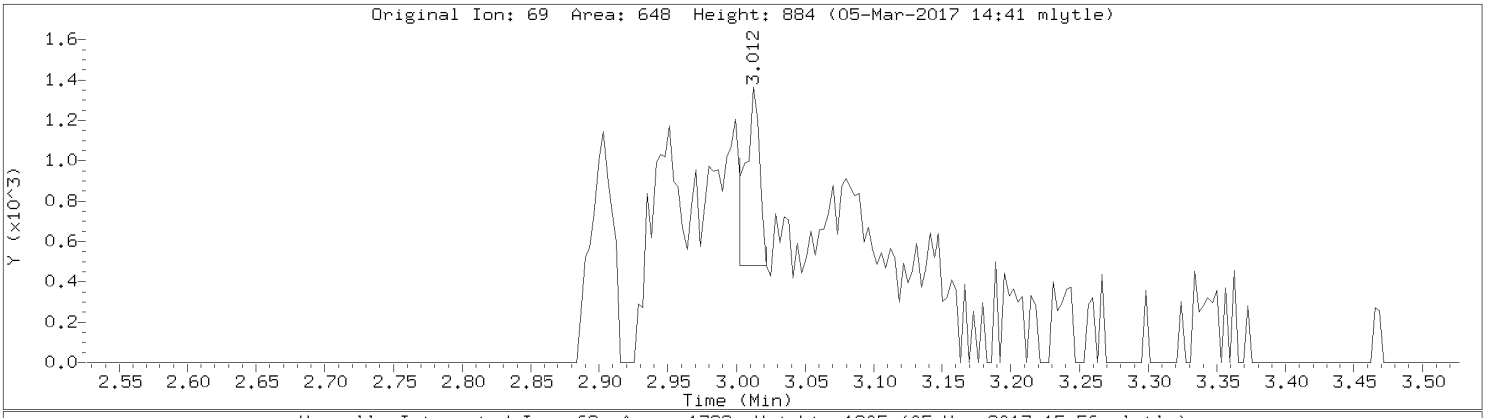


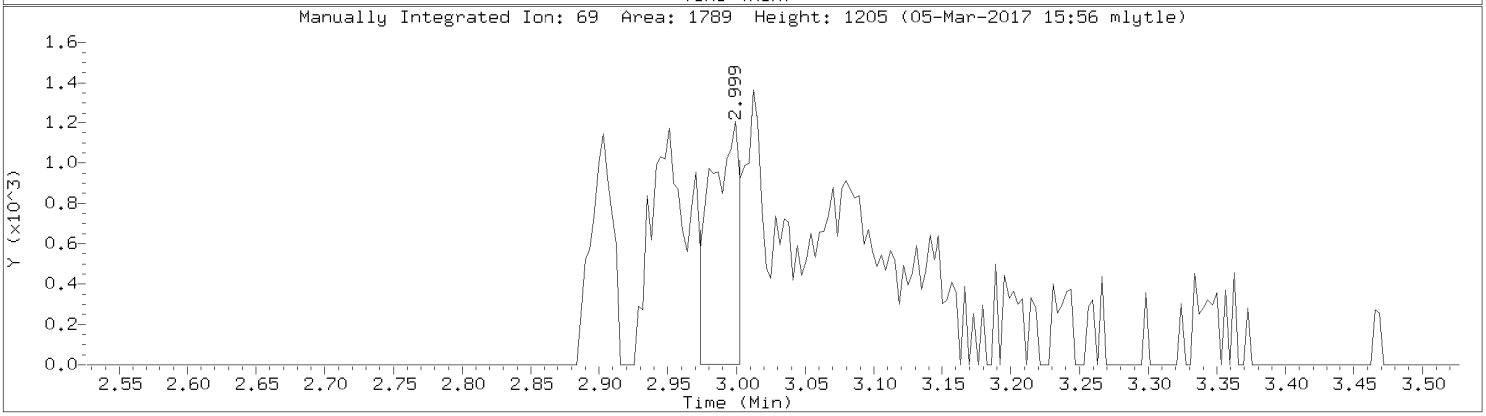






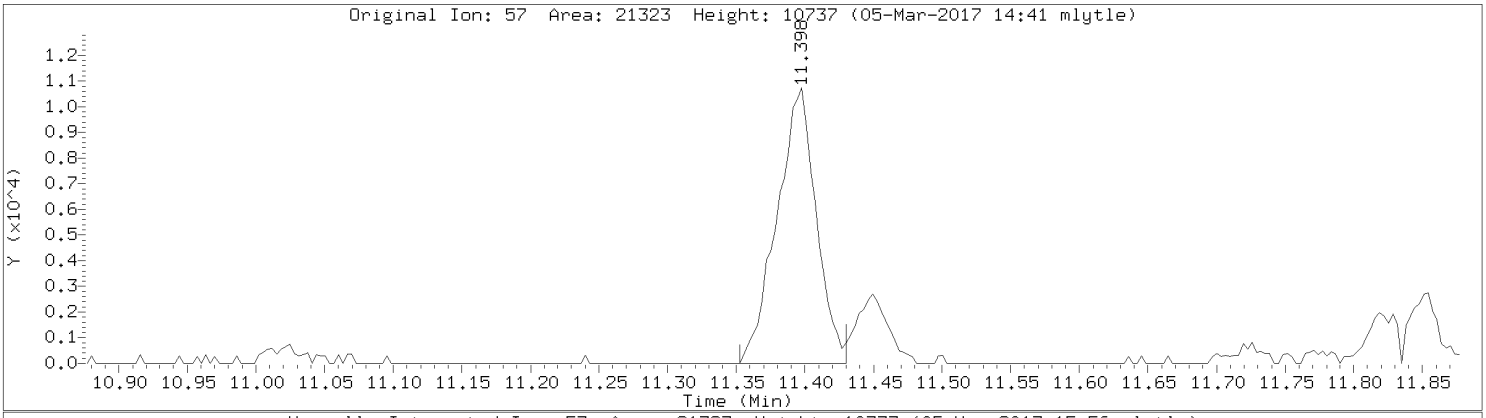
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06333.D
Injection Date: 04-MAR-2017 23:20
Instrument: 10airB.i
Lab Sample ID: 10379458006

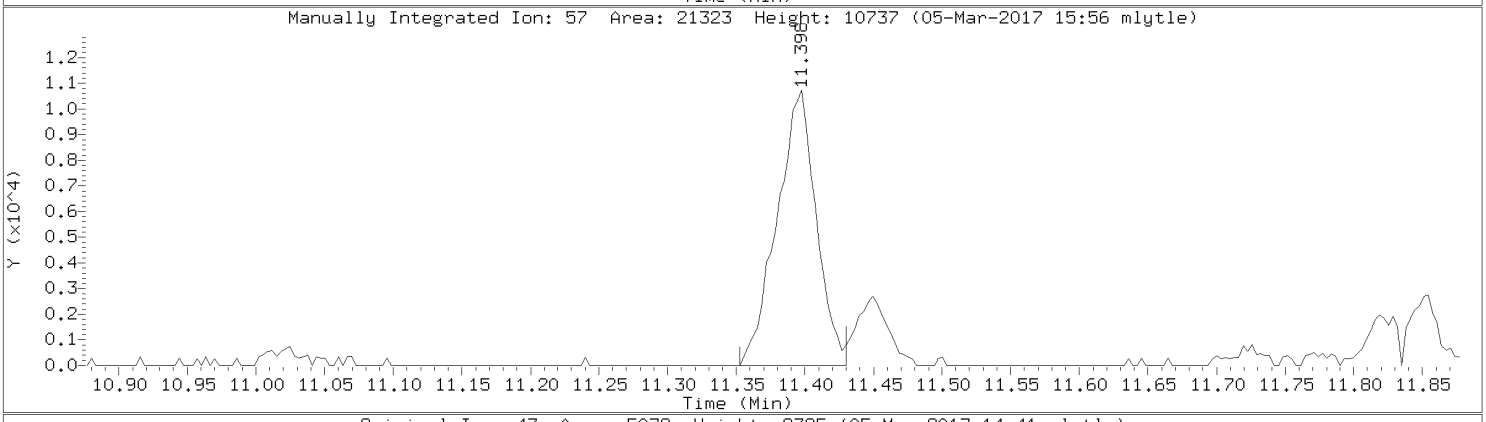


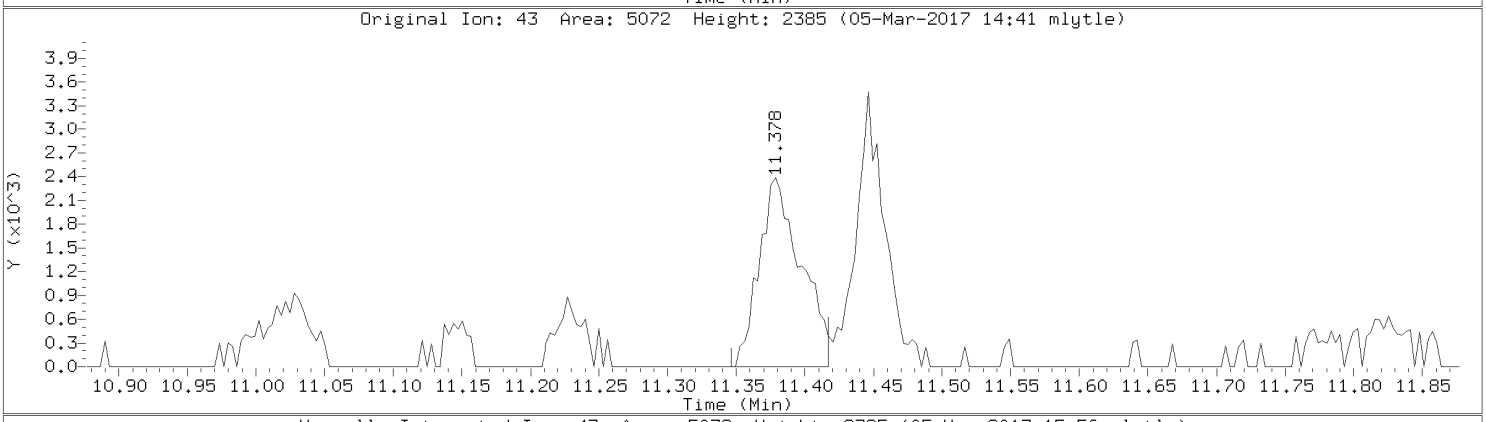


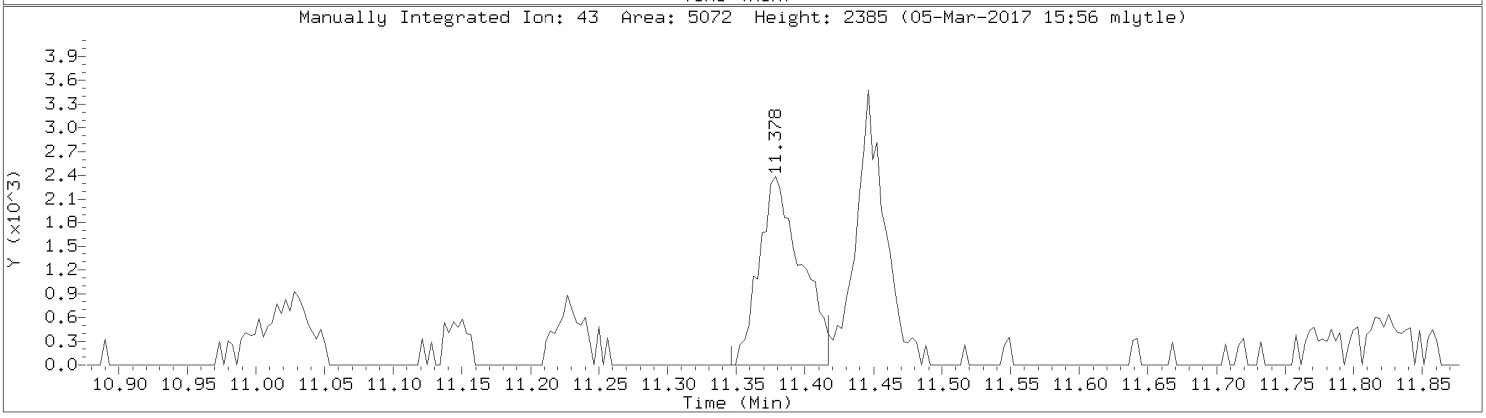
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06333.D
Injection Date: 04-MAR-2017 23:20
Instrument: 10airB.i
Lab Sample ID: 10379458006

Compound: n-Decane
CAS Number: 124-18-5

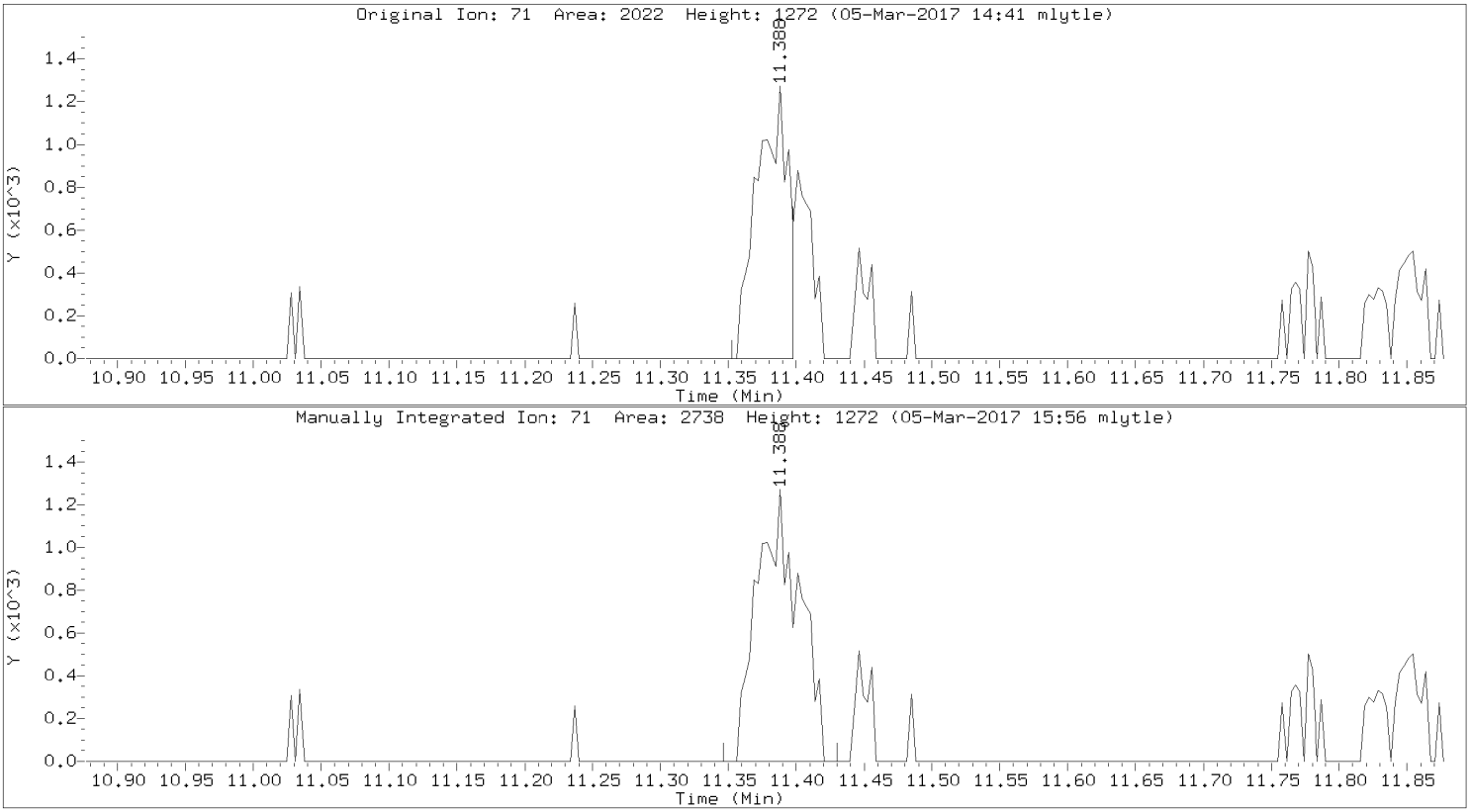








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06333.D
Injection Date: 04-MAR-2017 23:20
Instrument: 10airB.i
Lab Sample ID: 10379458006



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-C1_20170215 **Lab ID: 10379458007** Collected: 02/15/17 16:17 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**48.7**	ug/m3	4.9	1.7	2.01		03/04/17 23:52	67-64-1	
Allyl chloride	**<0.46**	ug/m3	3.2	0.46	2.01		03/04/17 23:52	107-05-1	
Benzene	**1.6**	ug/m3	0.65	0.25	2.01		03/04/17 23:52	71-43-2	
Bromodichloromethane	**<0.39**	ug/m3	2.7	0.39	2.01		03/04/17 23:52	75-27-4	
Bromoform	**<1.8**	ug/m3	4.2	1.8	2.01		03/04/17 23:52	75-25-2	
Bromomethane	**<0.62**	ug/m3	1.6	0.62	2.01		03/04/17 23:52	74-83-9	
1,3-Butadiene	**<0.35**	ug/m3	0.90	0.35	2.01		03/04/17 23:52	106-99-0	
2-Butanone (MEK)	**4.9J**	ug/m3	6.0	0.46	2.01		03/04/17 23:52	78-93-3	
Carbon disulfide	**<0.20**	ug/m3	1.3	0.20	2.01		03/04/17 23:52	75-15-0	
Carbon tetrachloride	**<0.39**	ug/m3	1.3	0.39	2.01		03/04/17 23:52	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		03/04/17 23:52	108-90-7	
Chlorodifluoromethane	**<0.55**	ug/m3	1.4	0.55	2.01		03/04/17 23:52	75-45-6	
Chloroethane	**<0.39**	ug/m3	1.1	0.39	2.01		03/04/17 23:52	75-00-3	
Chloroform	**3.3**	ug/m3	1.0	0.38	2.01		03/04/17 23:52	67-66-3	
Chloromethane	**1.2**	ug/m3	0.84	0.22	2.01		03/04/17 23:52	74-87-3	
Chloropentafluoroethane	**<6.5**	ug/m3	6.5	6.5	2.01		03/04/17 23:52	76-15-3	
Cyclohexane	**<0.64**	ug/m3	1.4	0.64	2.01		03/04/17 23:52	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.9**	ug/m3	9.9	9.9	2.01		03/04/17 23:52	96-12-8	
Dibromochloromethane	**<1.7**	ug/m3	3.5	1.7	2.01		03/04/17 23:52	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.1	1.6	2.01		03/04/17 23:52	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/04/17 23:52	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.5	1.1	2.01		03/04/17 23:52	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/04/17 23:52	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	2.0	0.96	2.01		03/04/17 23:52	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.6	0.32	2.01		03/04/17 23:52	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/m3	0.82	0.41	2.01		03/04/17 23:52	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.6	0.48	2.01		03/04/17 23:52	75-35-4	
cis-1,2-Dichloroethene	**<0.49**	ug/m3	1.6	0.49	2.01		03/04/17 23:52	156-59-2	
trans-1,2-Dichloroethene	**<0.77**	ug/m3	1.6	0.77	2.01		03/04/17 23:52	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/m3	1.9	0.54	2.01		03/04/17 23:52	78-87-5	
cis-1,3-Dichloropropene	**<0.74**	ug/m3	1.8	0.74	2.01		03/04/17 23:52	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/m3	1.8	0.52	2.01		03/04/17 23:52	10061-02-6	
Dichlorotetrafluoroethane	**<0.62**	ug/m3	2.9	0.62	2.01		03/04/17 23:52	76-14-2	
Freon 123	**<6.4**	ug/m3	6.4	6.4	2.01		03/04/17 23:52	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.71**	ug/m3	7.4	0.71	2.01		03/04/17 23:52	123-91-1	
Ethylbenzene	**<0.85**	ug/m3	1.8	0.85	2.01		03/04/17 23:52	100-41-4	
4-Ethyltoluene	**<0.38**	ug/m3	2.0	0.38	2.01		03/04/17 23:52	622-96-8	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	4.4	1.3	2.01		03/04/17 23:52	87-68-3	
n-Hexane	**2.0**	ug/m3	1.4	0.72	2.01		03/04/17 23:52	110-54-3	
2-Hexanone	**<0.82**	ug/m3	8.4	0.82	2.01		03/04/17 23:52	591-78-6	
Isopropylbenzene (Cumene)	**<0.28**	ug/m3	5.0	0.28	2.01		03/04/17 23:52	98-82-8	
Methyl acetate	**<3.1**	ug/m3	3.1	3.1	2.01		03/04/17 23:52	79-20-9	
Methylcyclohexane	**<0.49**	ug/m3	1.6	0.49	2.01		03/04/17 23:52	108-87-2	
Methylene Chloride	**5.3J**	ug/m3	7.1	1.1	2.01		03/04/17 23:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.44**	ug/m3	8.4	0.44	2.01		03/04/17 23:52	108-10-1	
Methyl-tert-butyl ether	**<0.61**	ug/m3	7.4	0.61	2.01		03/04/17 23:52	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D
Report Date: 05-Mar-2017 15:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06334.D
Lab Smp Id: 10379458007
Inj Date : 04-MAR-2017 23:52
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 34
Dil Factor: 2.01000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.010	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.015	3.018	(0.538)	15853	2.03509	4.09(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.063	3.060	(0.547)	10852	0.21045	0.423	
6	Chloromethane	50	3.160	3.156	(0.564)	4242	0.27787	0.559	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.562	3.545	(0.636)	1684599	345.048	694(A)	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.664	3.674	(0.654)	4068	0.11167	0.224	
17	Acrolein	56	3.671	3.684	(0.656)	2304	0.66239	1.33	
18	Acetone	43	3.713	3.722	(0.663)	211507	10.0326	20.2	
19	Isopropyl Alcohol	45	3.777	3.767	(0.674)	370023	17.2097	34.6	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	3.954	3.960	(0.706)	4254	0.13253	0.266(Q)	

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D
Report Date: 05-Mar-2017 15:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.970	3.957	(0.709)	4411	0.15959	0.321	
	25 Methylene chloride	49	3.999	4.005	(0.714)	11087	0.74510	1.50	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.391	(0.792)	20004	0.73875	1.48	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.801)	405747	9.59815	9.60	
	33 Methyl Ethyl Ketone	72	4.552	4.555	(0.813)	4648	0.80742	1.62(QM)	
	34 n-Hexane	57	4.581	4.584	(0.818)	5920	0.27940	0.562(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.716	4.716	(0.842)	4813	0.17650	0.355(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.822	4.841	(0.861)	9112	0.33102	0.665	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.452	5.468	(0.974)	10528	0.24568	0.494	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1328713	10.0000		
	48 2,2,4-Trimethylpentane	57	5.758	5.770	(1.028)	8794	0.13249	0.266	
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						(D)
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1128204	9.48681	9.49	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.276)	22241	0.41444	0.833	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.565	7.584	(0.876)	6764	0.23820	0.479(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	2738	0.09498	0.191	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	830201	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.076	9.082	(1.051)	13908	0.29020	0.583	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D
Report Date: 05-Mar-2017 15:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.384	11.378	(2.033)	12649	0.60081	1.21(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	11.510	11.513	(1.332)	7805	0.15826	0.318	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	486936	10.6474	10.6	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.166	14.156	(1.640)	2627	0.41639	0.837(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D
Report Date: 05-Mar-2017 15:59

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06334.D
Lab Smp Id: 10379458007
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

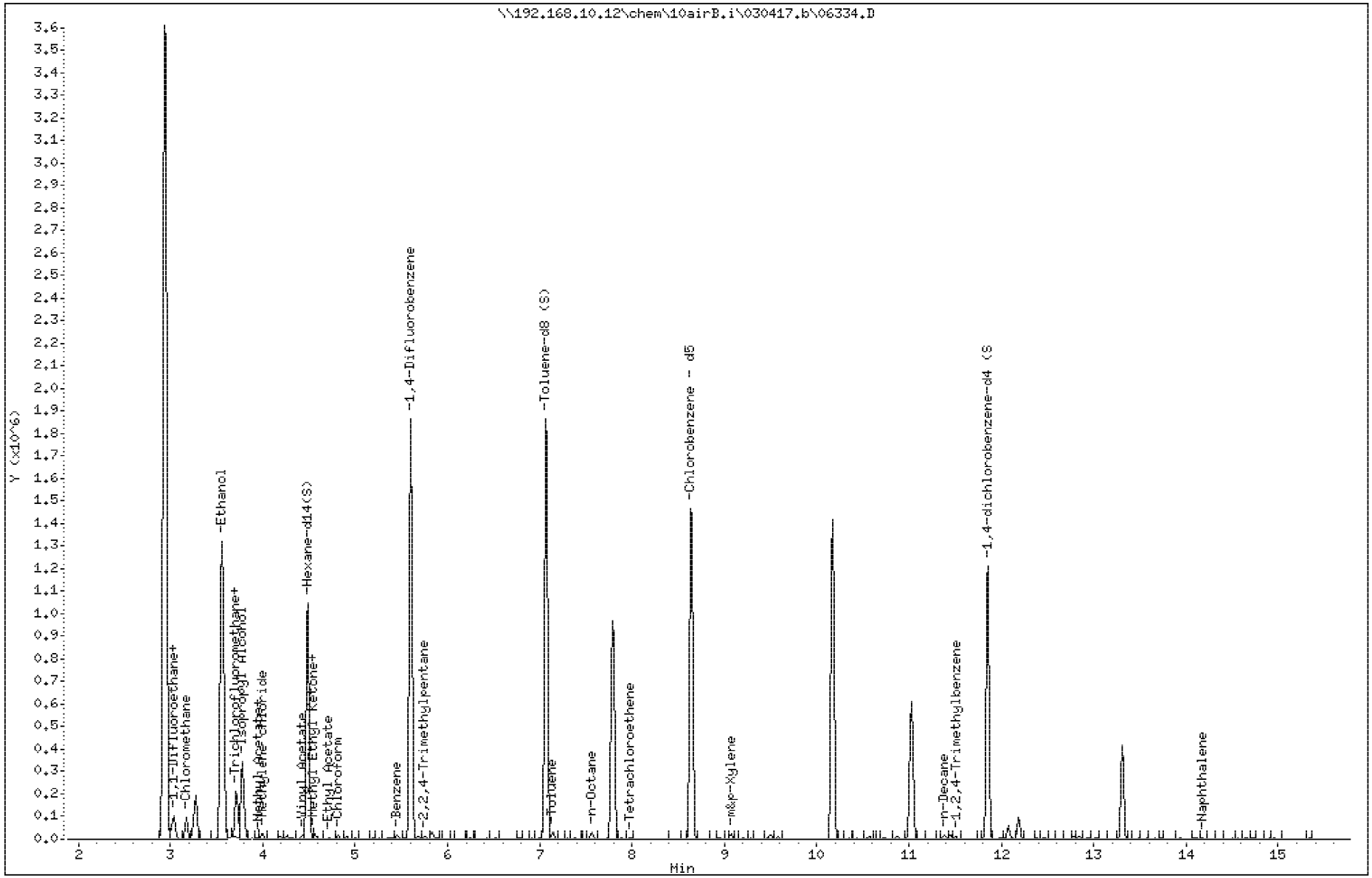
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1328713	-6.04
67 Chlorobenzene - d	951026	570616	1331436	830201	-12.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D
Date : 04-MAR-2017 23:52
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

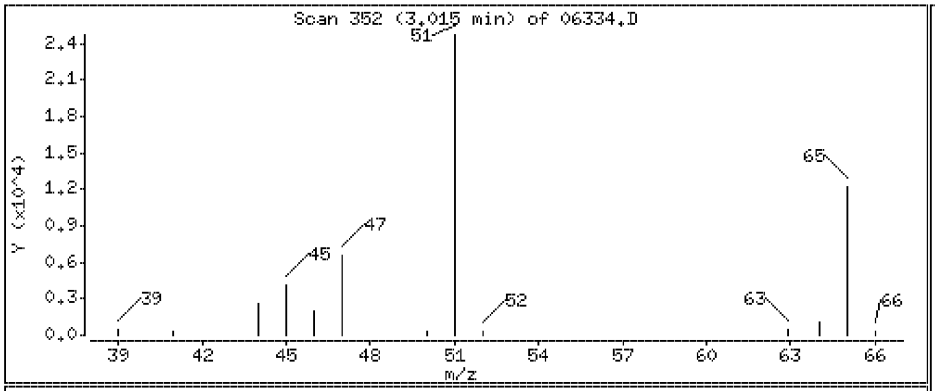
Operator: MJL

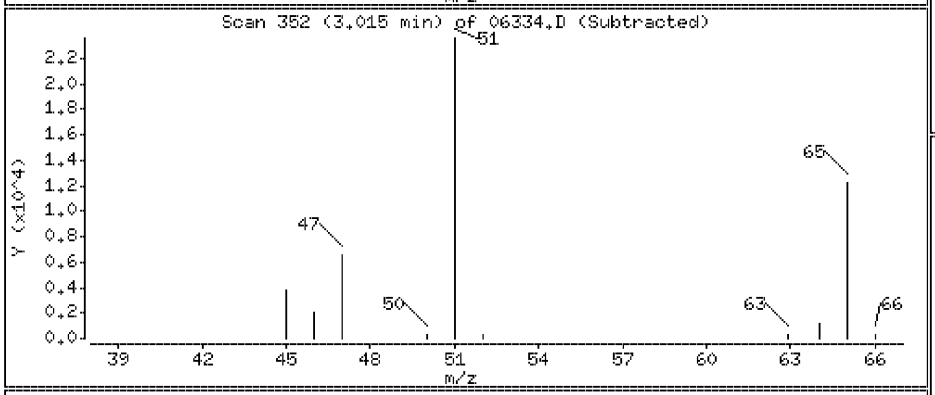
Column phase: J&W DB-5

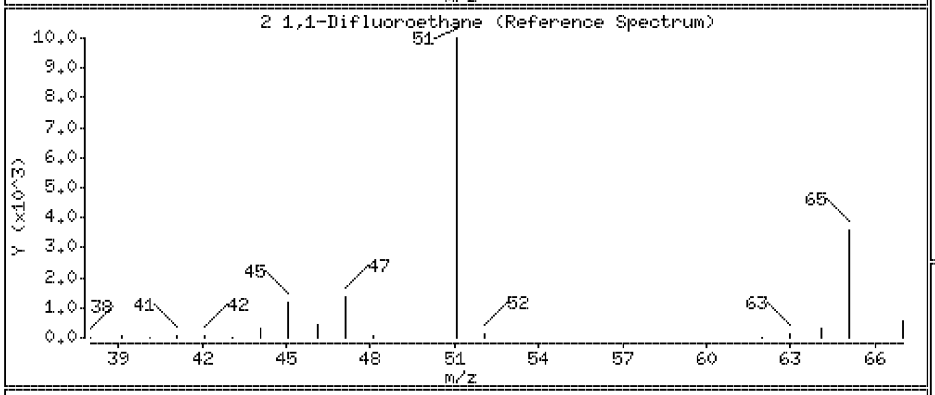
Column diameter: 0.32

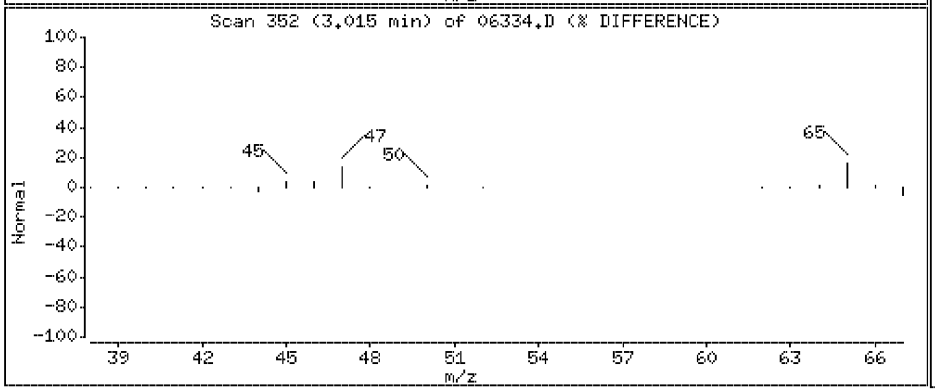
2 1,1-Difluoroethane

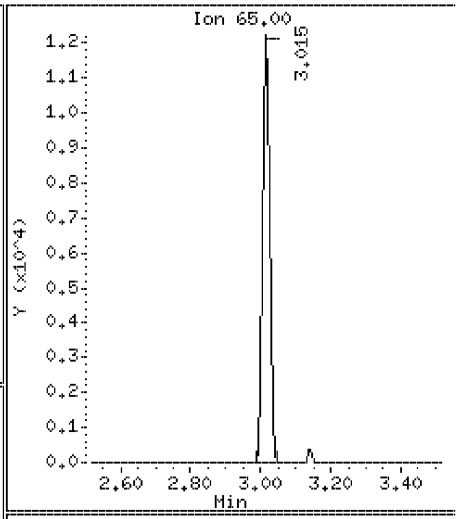
Concentration: 4.09 ppbv

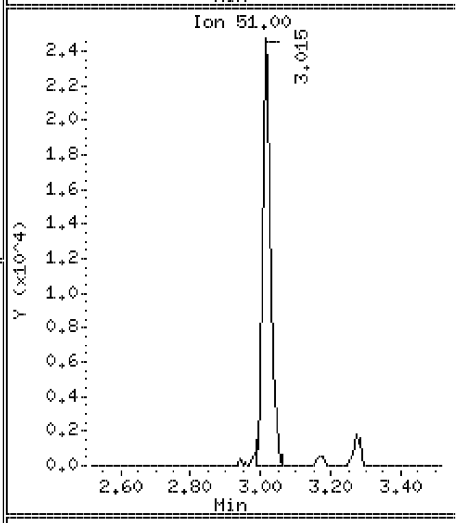


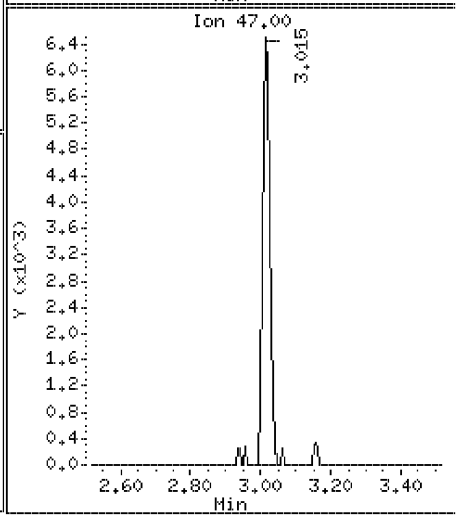












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

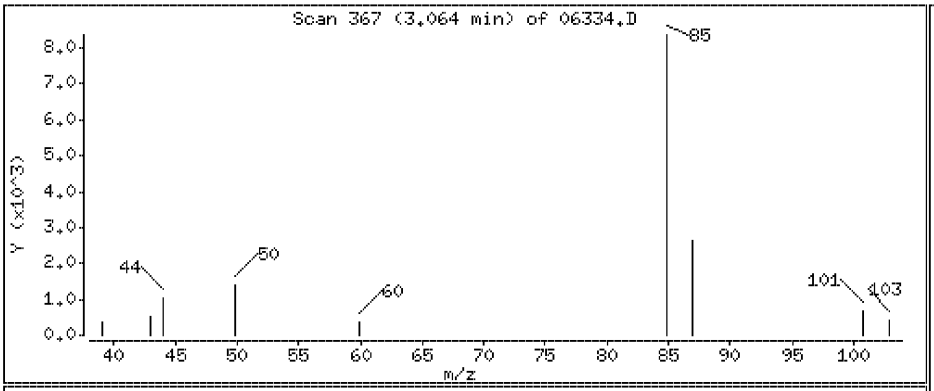
Operator: MJL

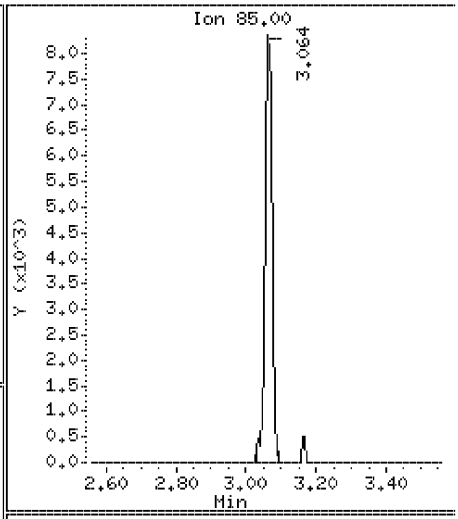
Column phase: J&W DB-5

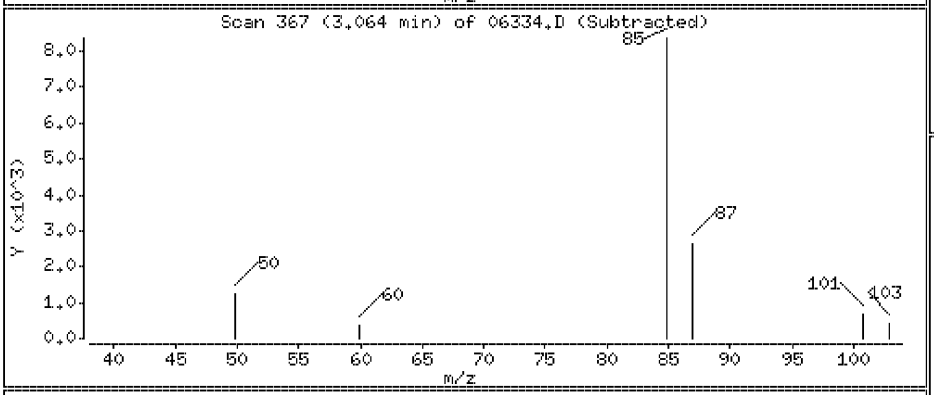
Column diameter: 0.32

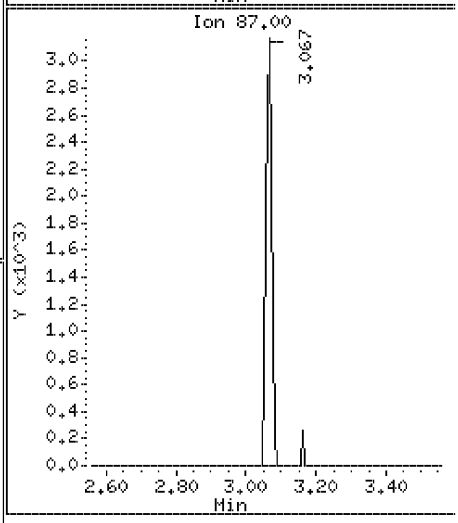
5 Dichlorodifluoromethane

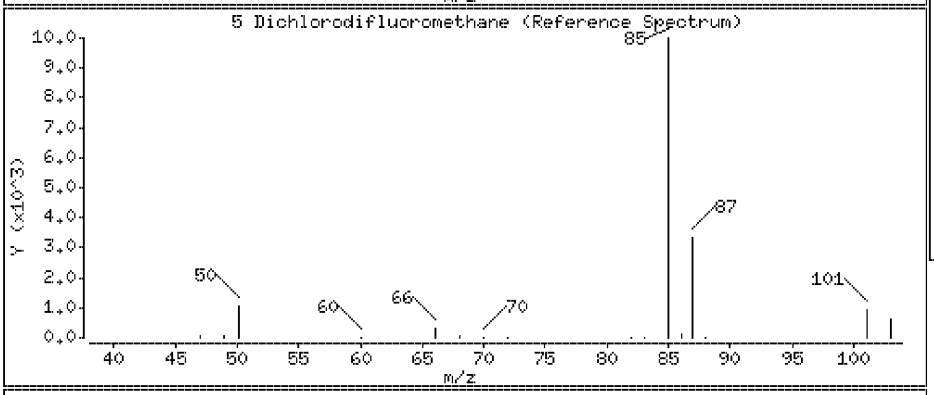
Concentration: 0.423 ppbv

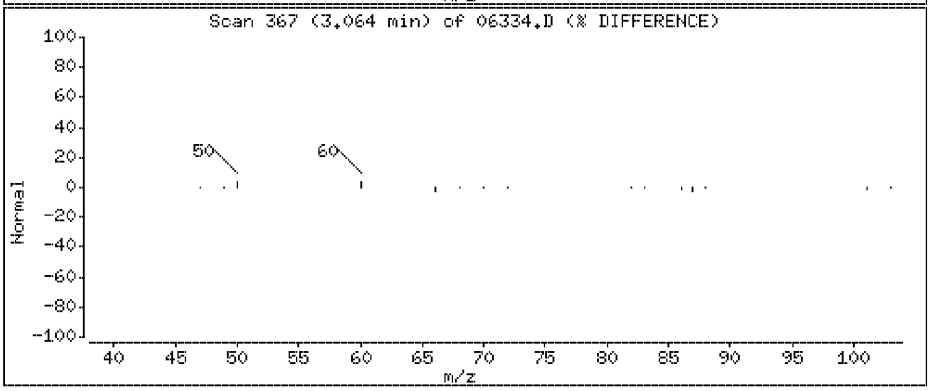












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

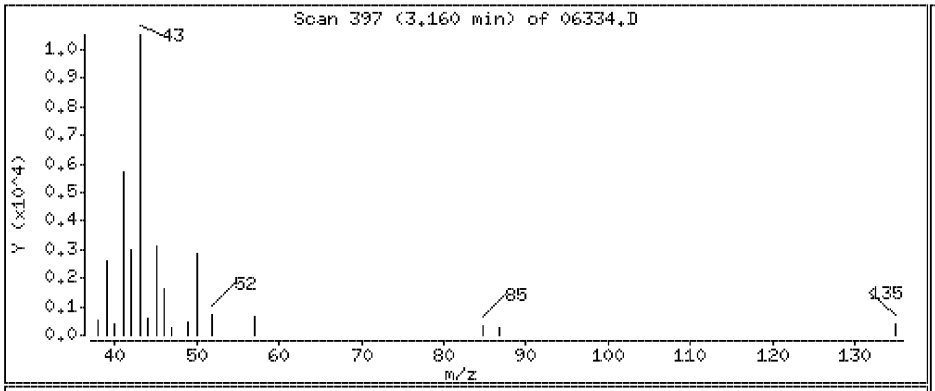
Operator: MJL

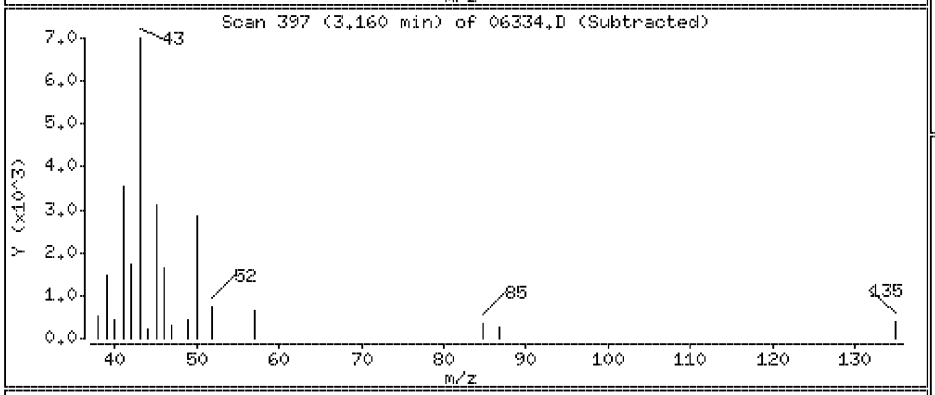
Column phase: J&W DB-5

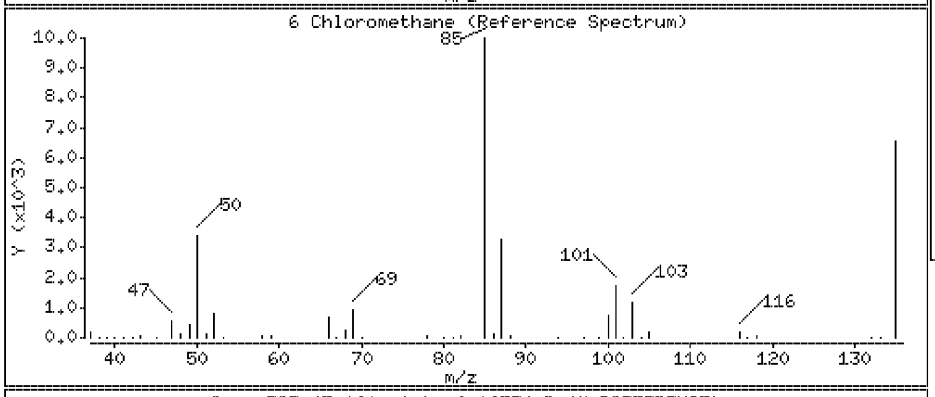
Column diameter: 0.32

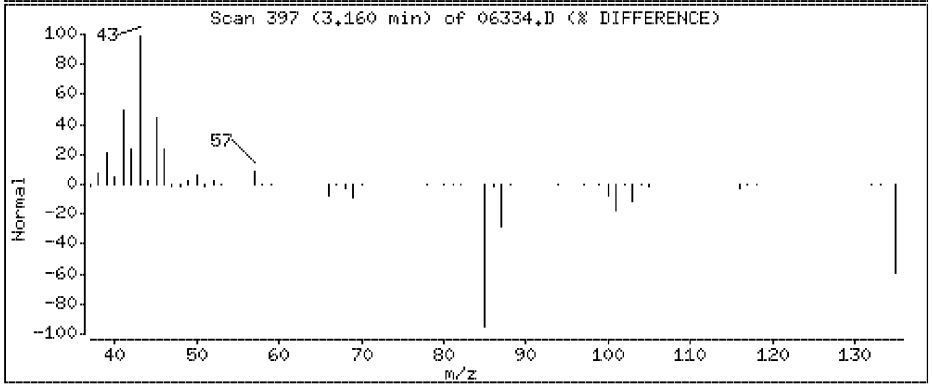
6 Chloromethane

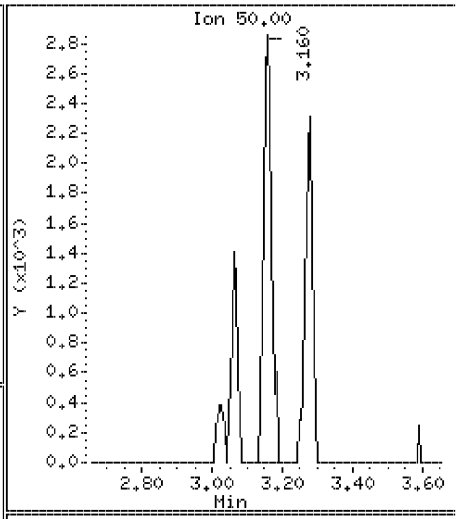
Concentration: 0.559 ppbv

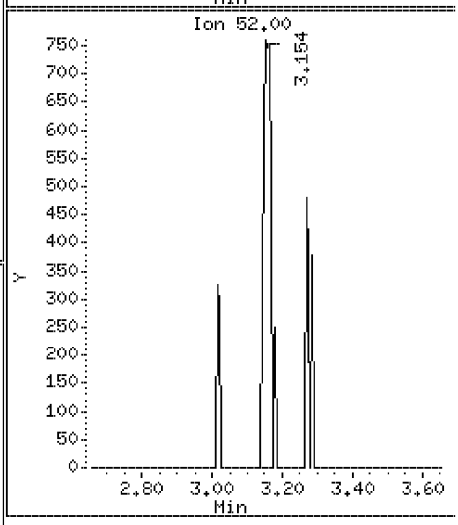












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

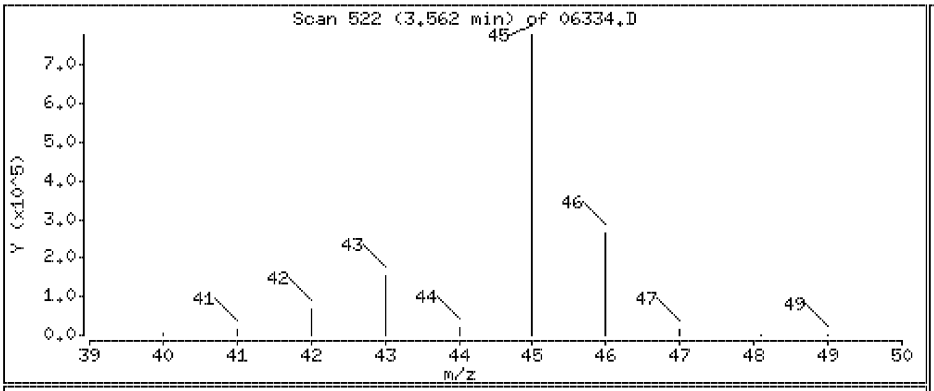
Operator: MJL

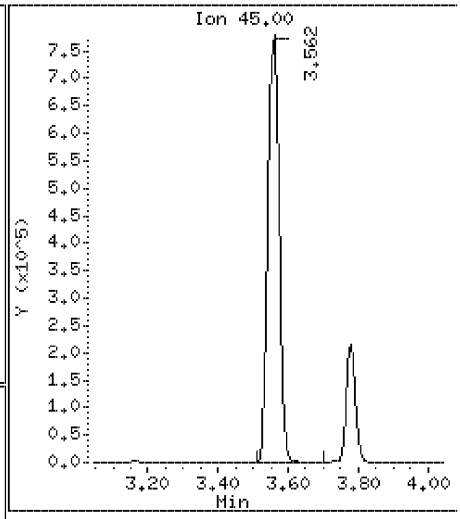
Column phase: J&W DB-5

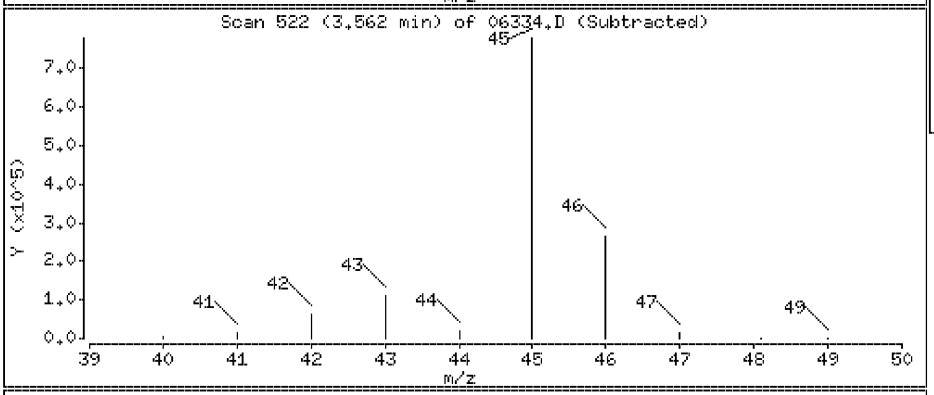
Column diameter: 0.32

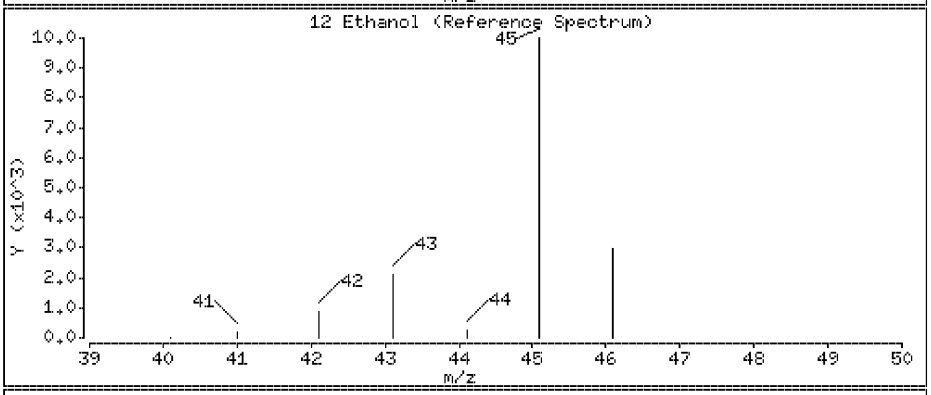
12 Ethanol

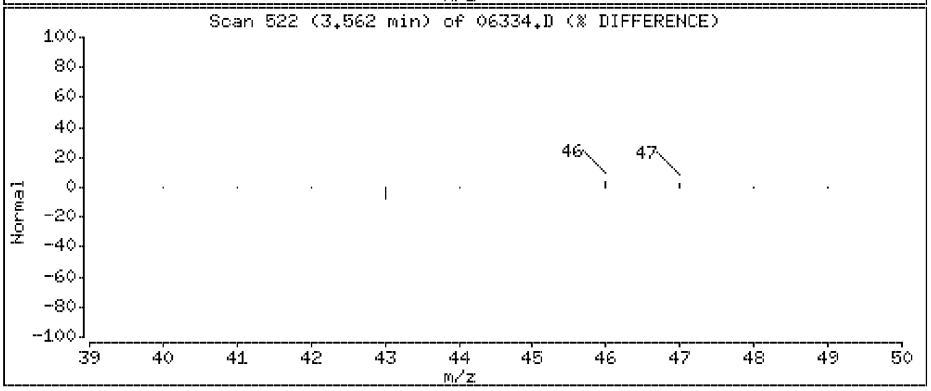
Concentration: 694 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

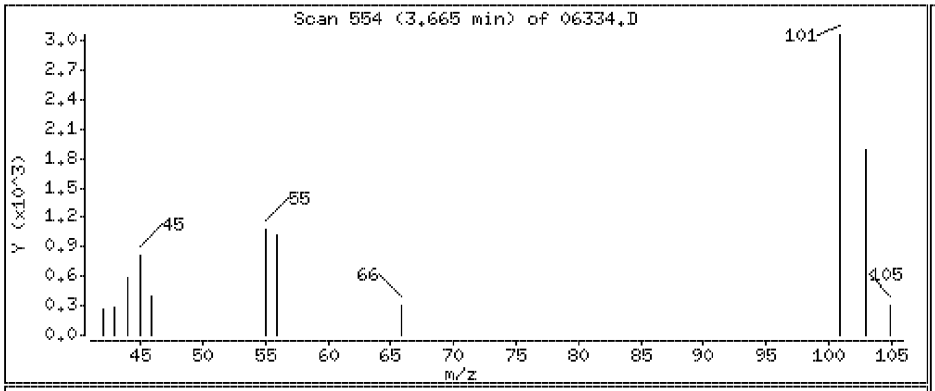
Operator: MJL

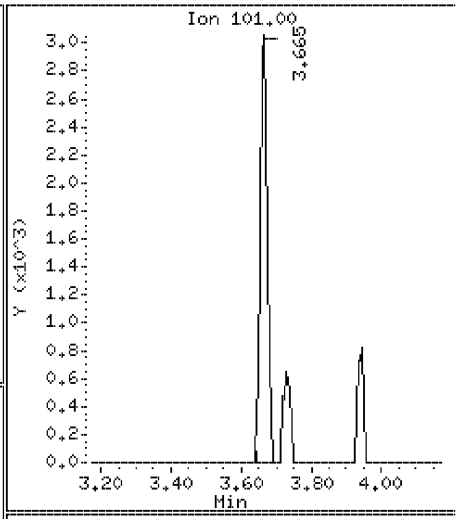
Column phase: J&W DB-5

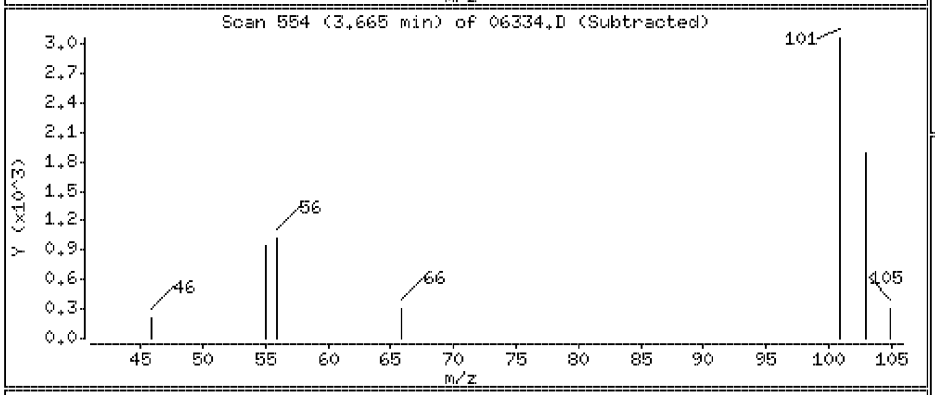
Column diameter: 0.32

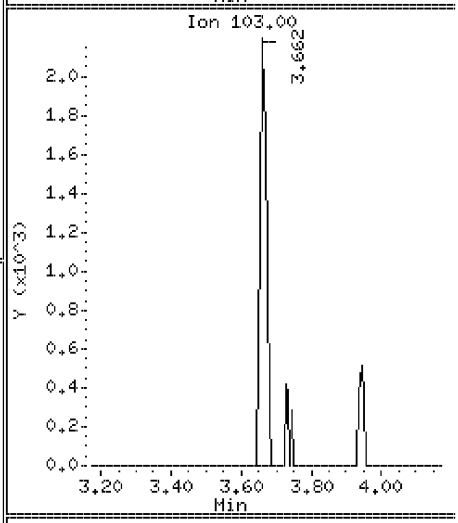
16 Trichlorofluoromethane

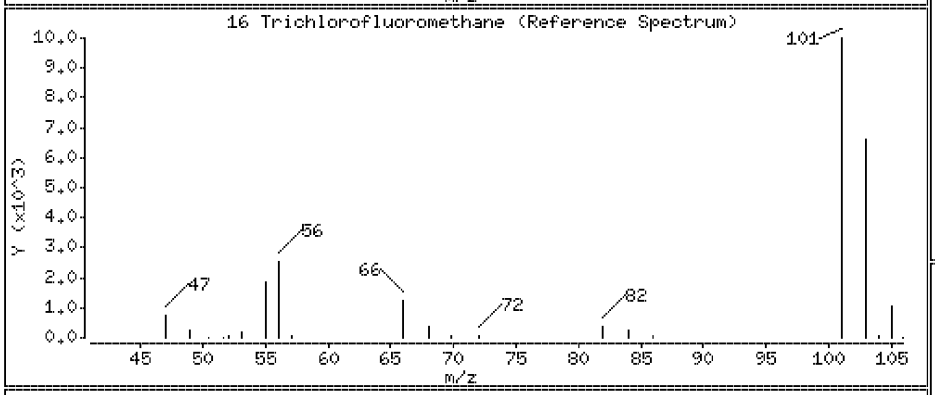
Concentration: 0.224 ppbv

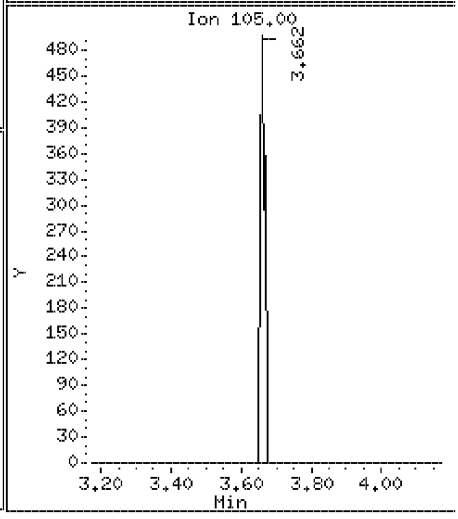


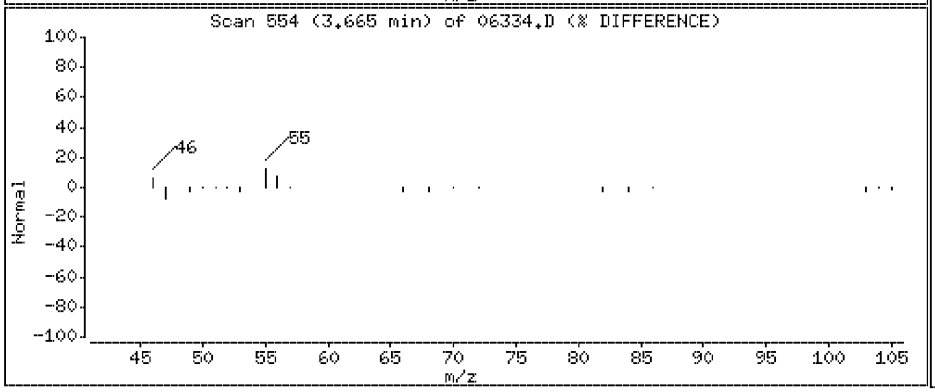












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

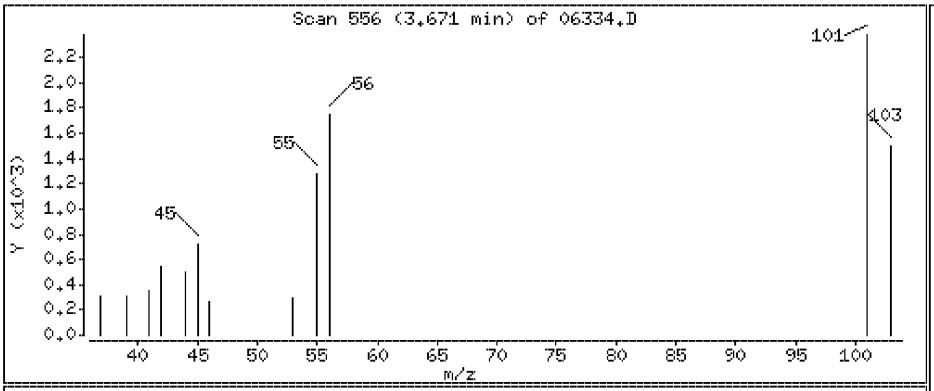
Operator: MJL

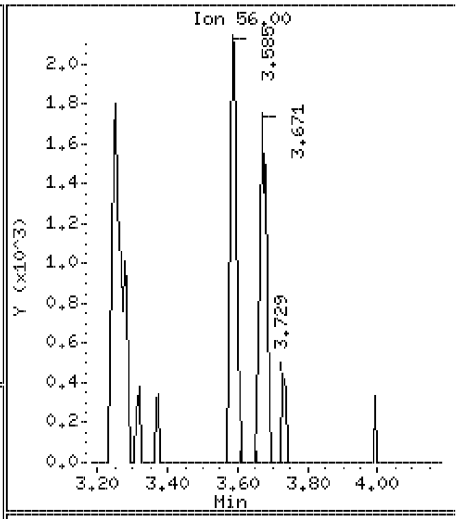
Column phase: J&W DB-5

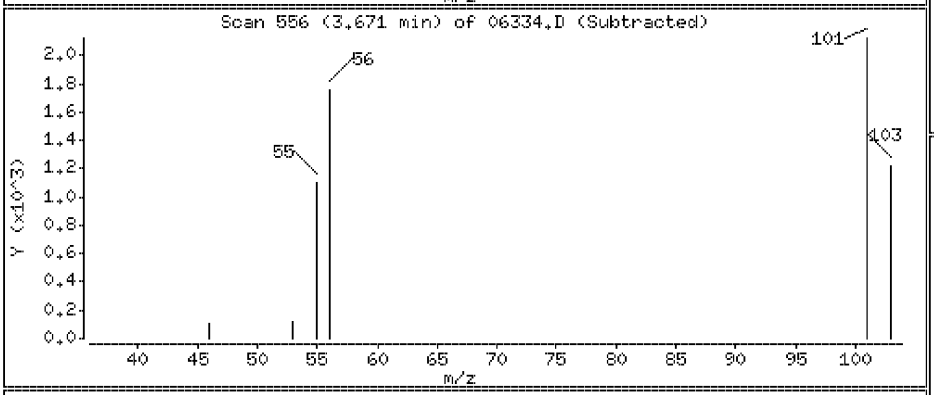
Column diameter: 0.32

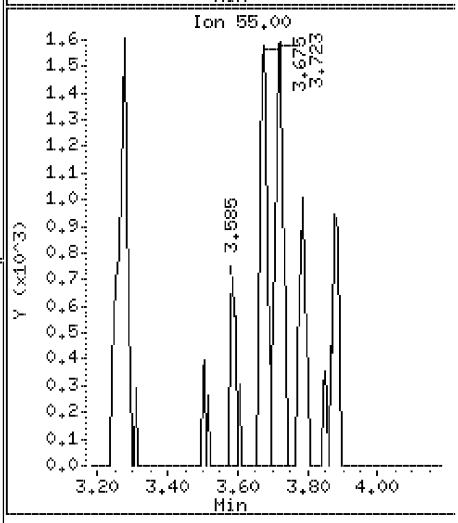
17 Acrolein

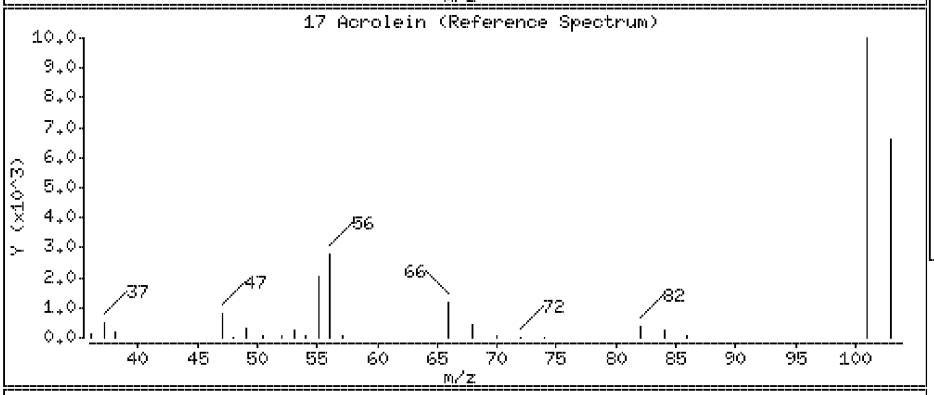
Concentration: 1.33 ppbv

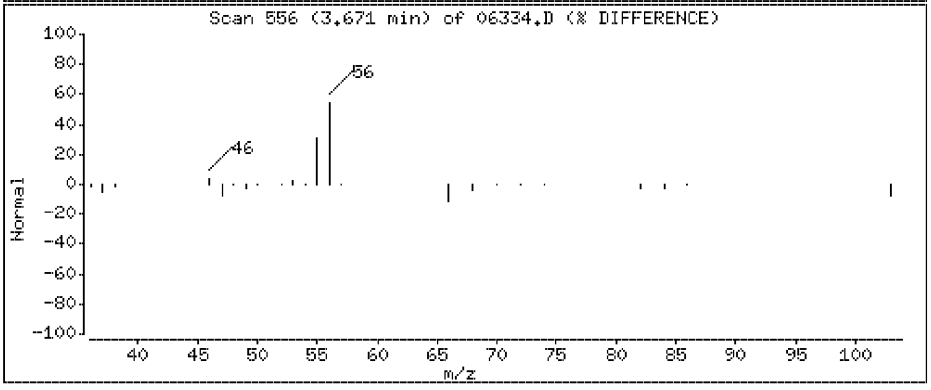












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

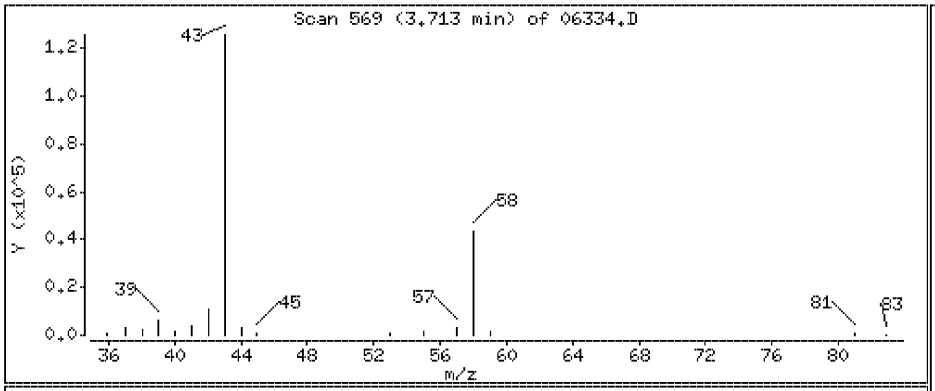
Operator: MJL

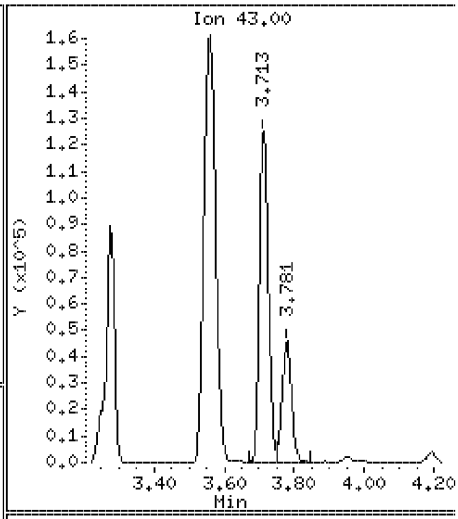
Column phase: J&W DB-5

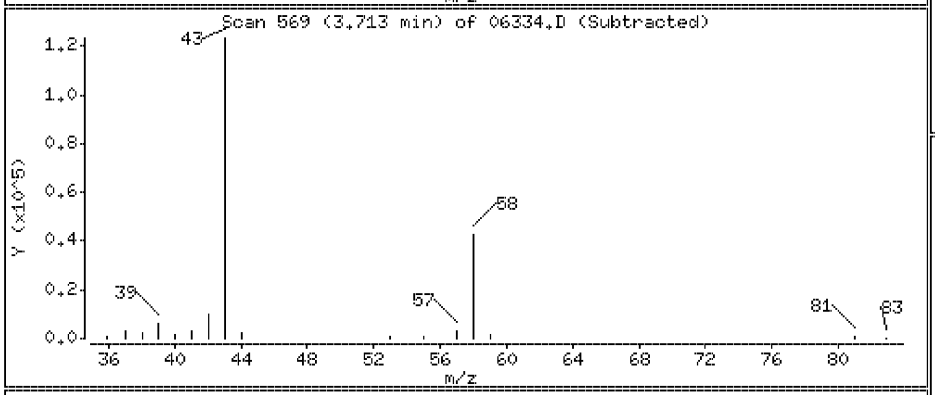
Column diameter: 0.32

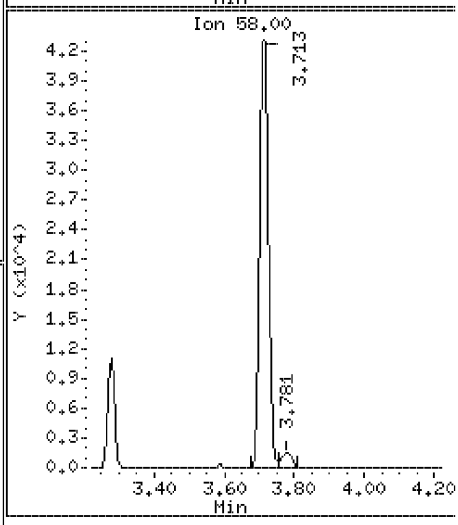
18 Acetone

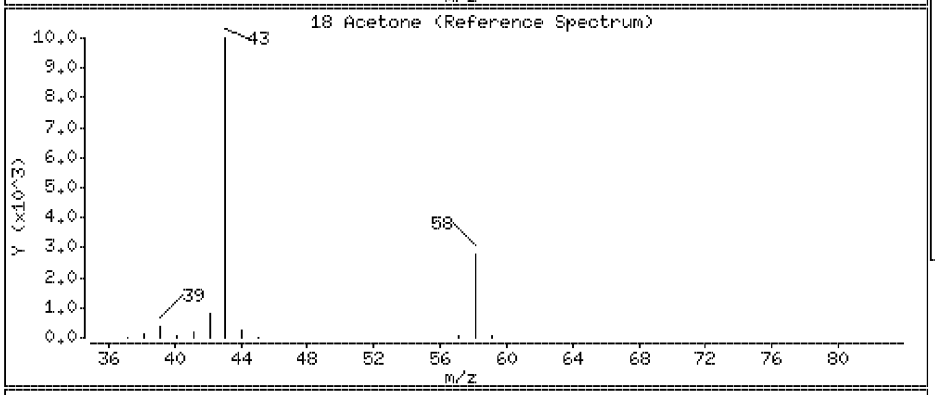
Concentration: 20.2 ppbv

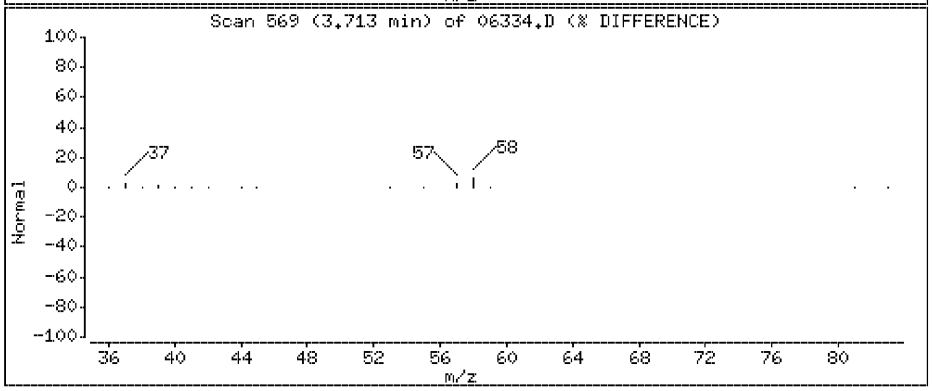












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

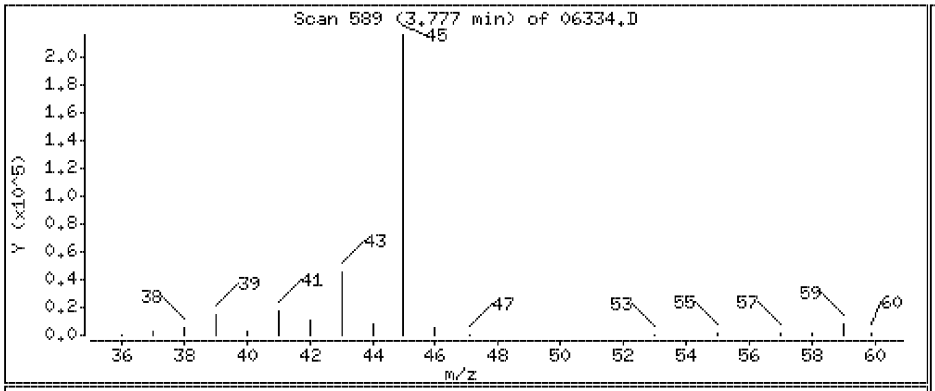
Operator: MJL

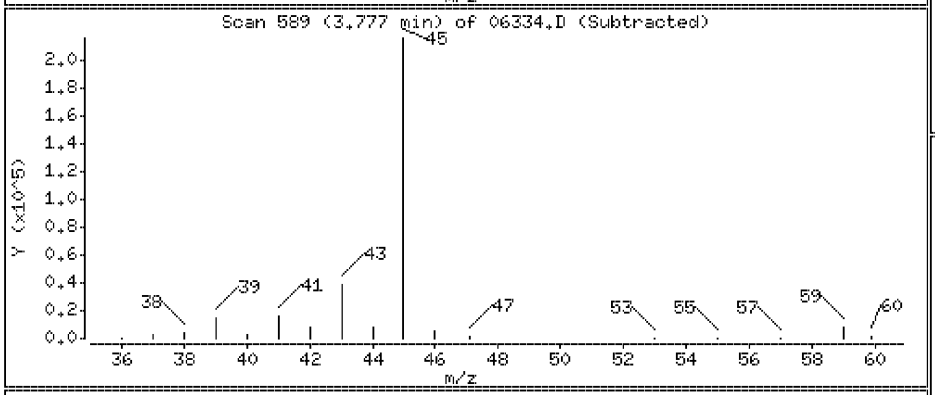
Column phase: J&W DB-5

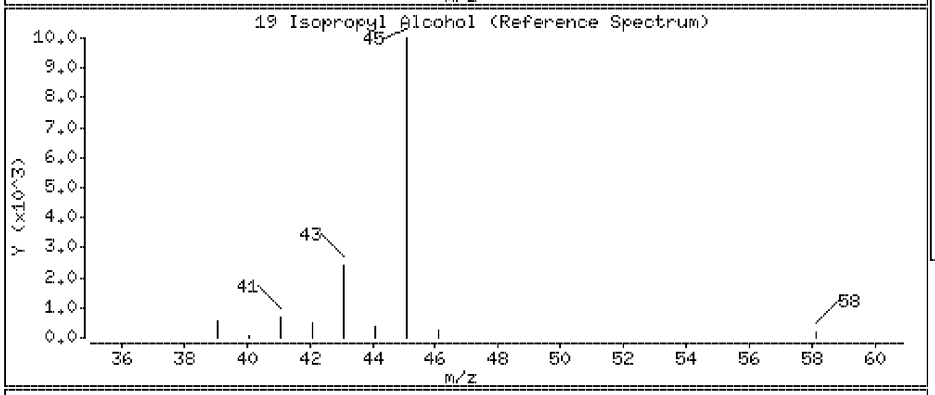
Column diameter: 0.32

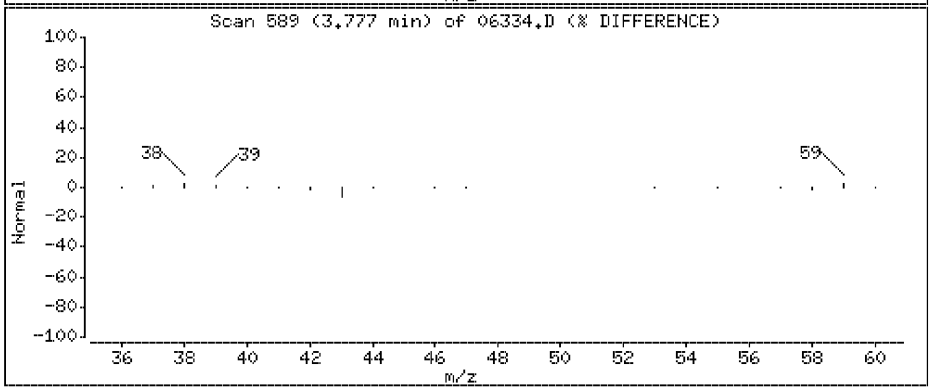
19 Isopropyl Alcohol

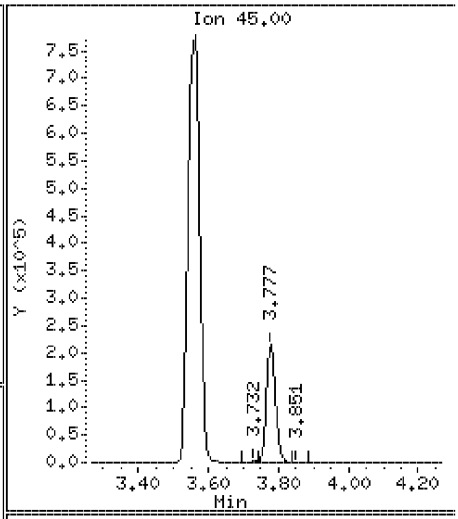
Concentration: 34.6 ppbv

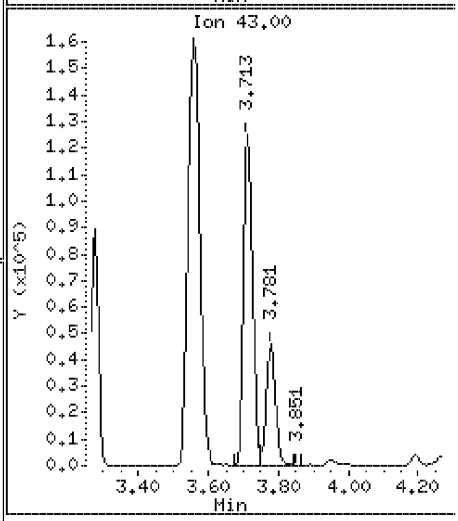












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

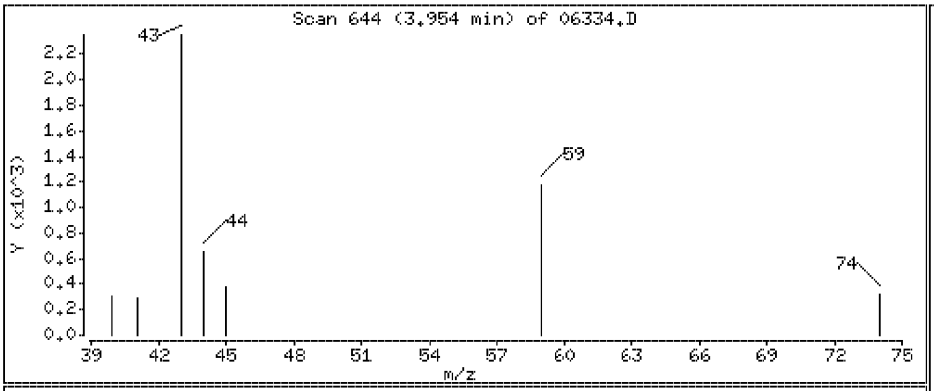
Operator: MJL

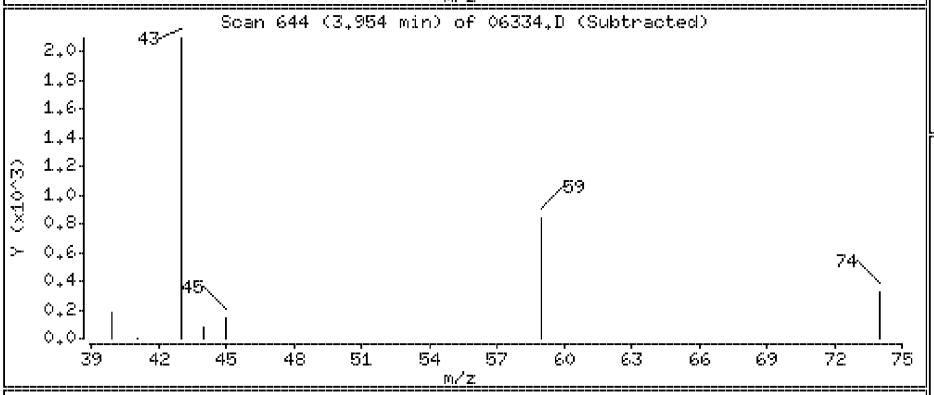
Column phase: J&W DB-5

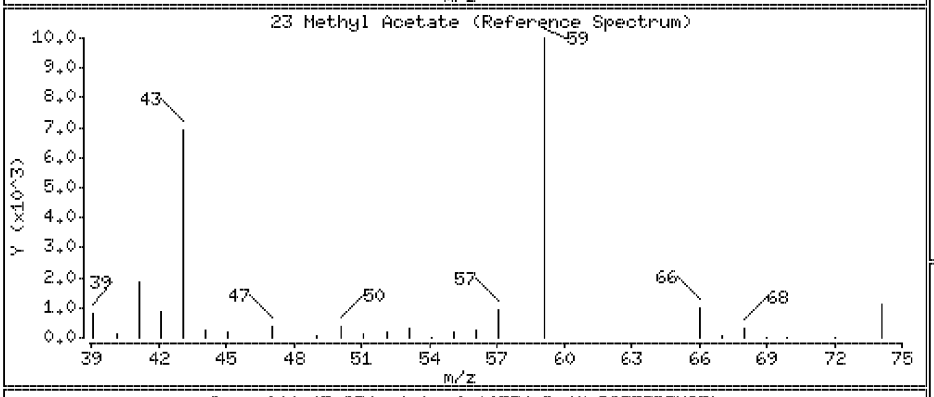
Column diameter: 0.32

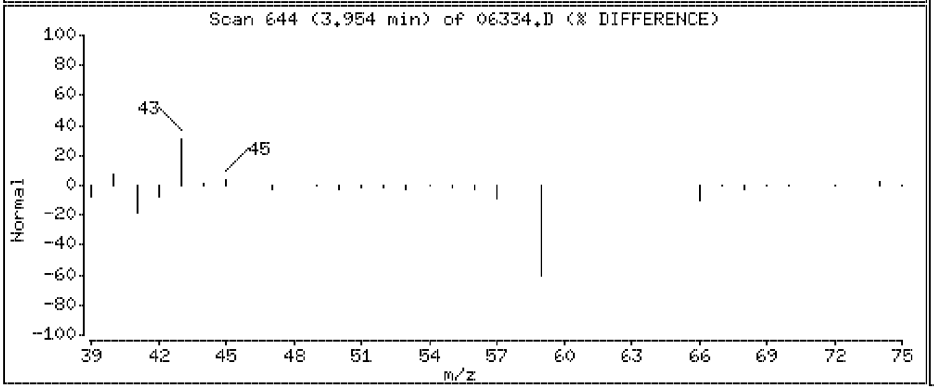
23 Methyl Acetate

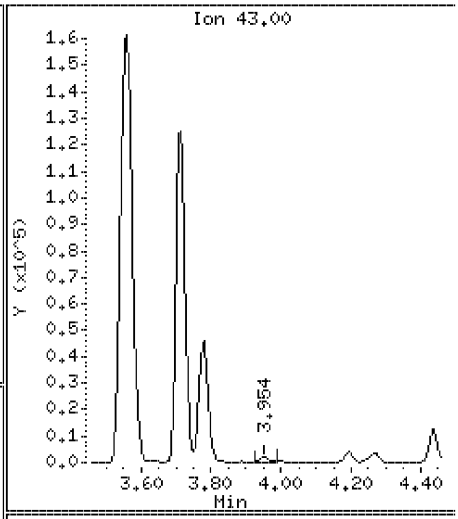
Concentration: 0.266 ppbv

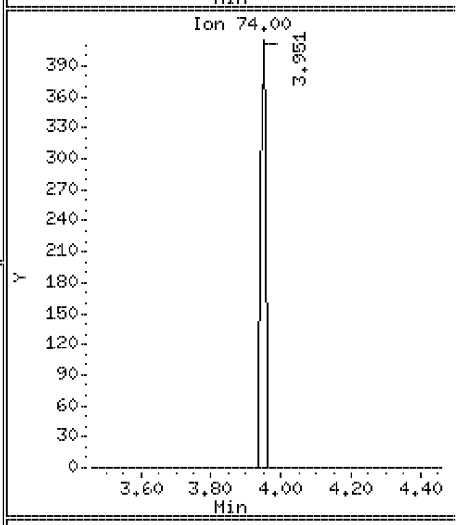


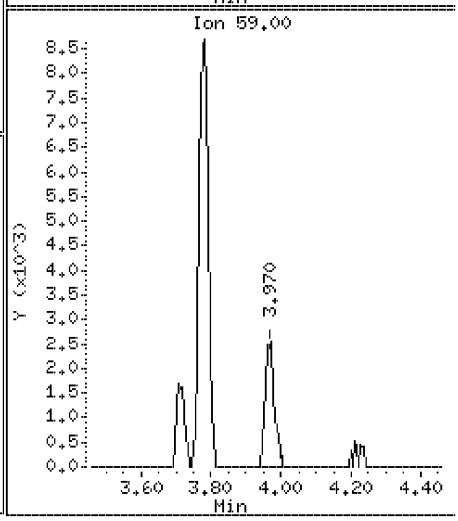












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

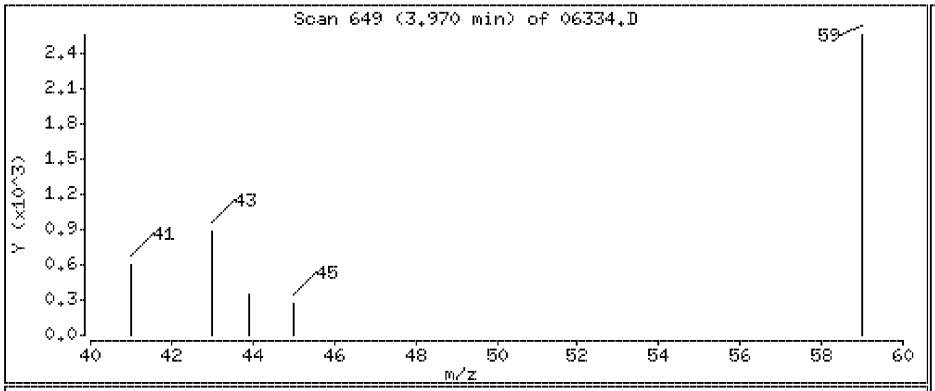
Operator: MJL

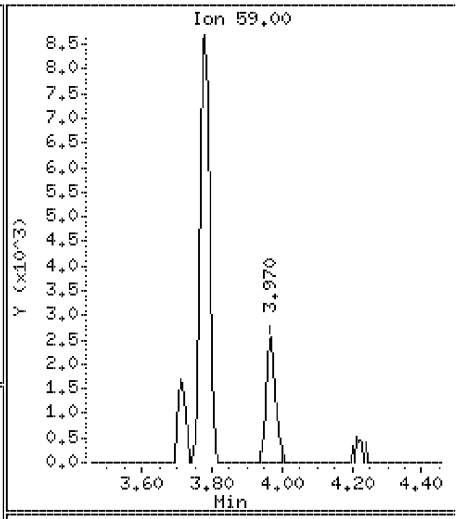
Column phase: J&W DB-5

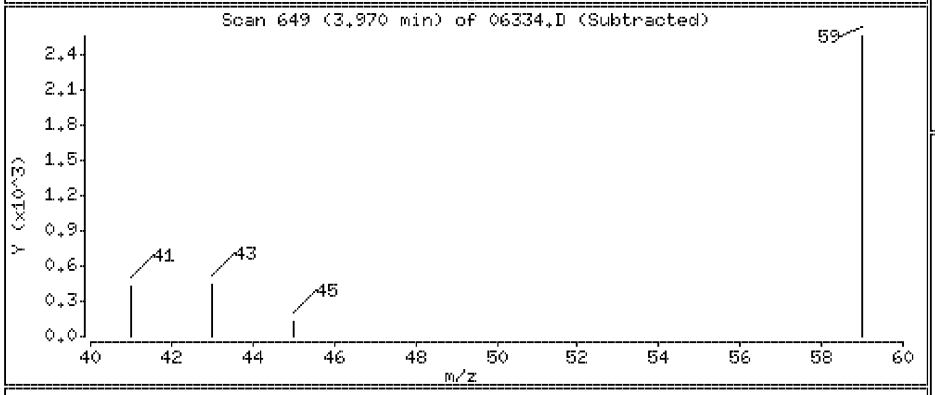
Column diameter: 0.32

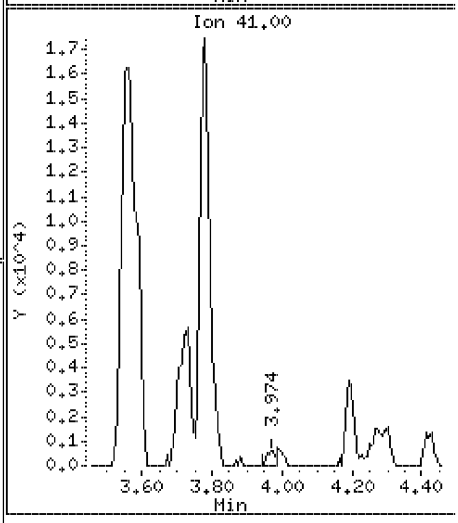
24 Tert Butyl Alcohol (TBA)

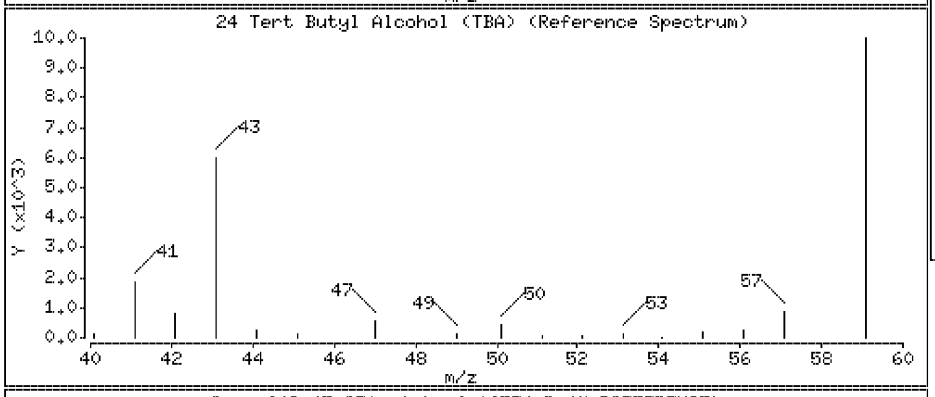
Concentration: 0.321 ppbv

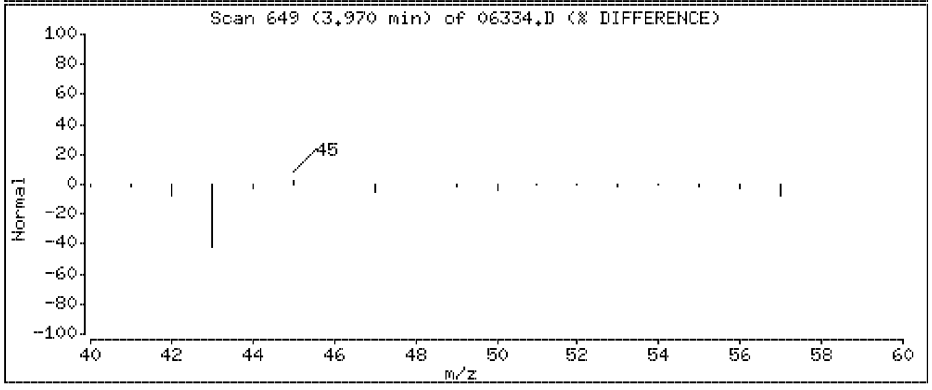












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

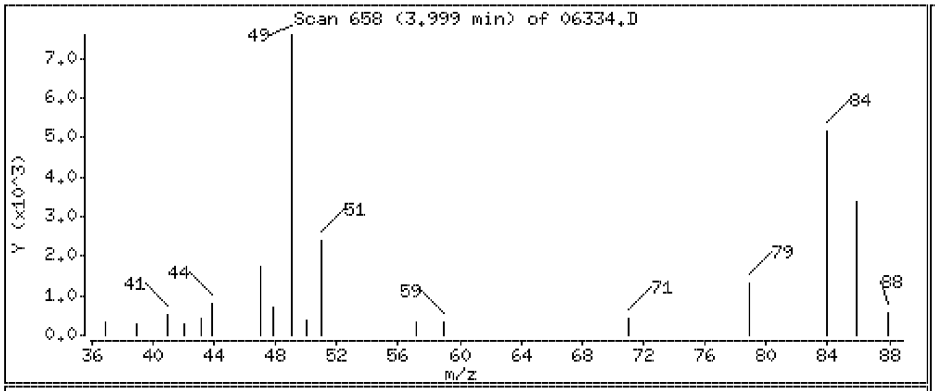
Operator: MJL

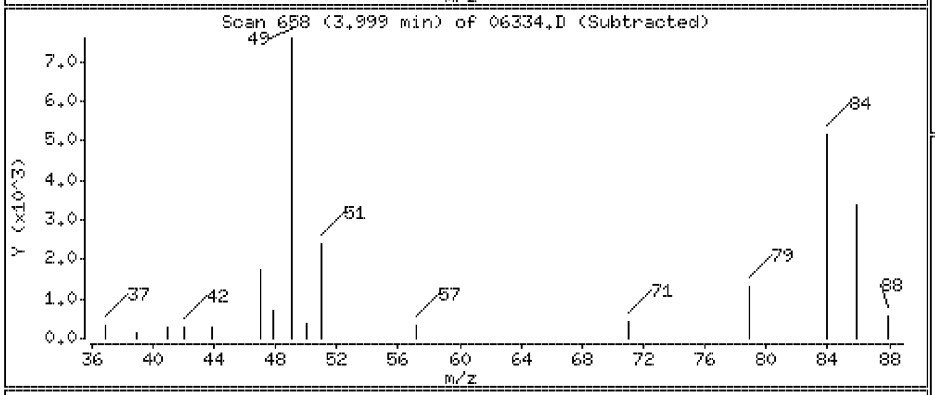
Column phase: J&W DB-5

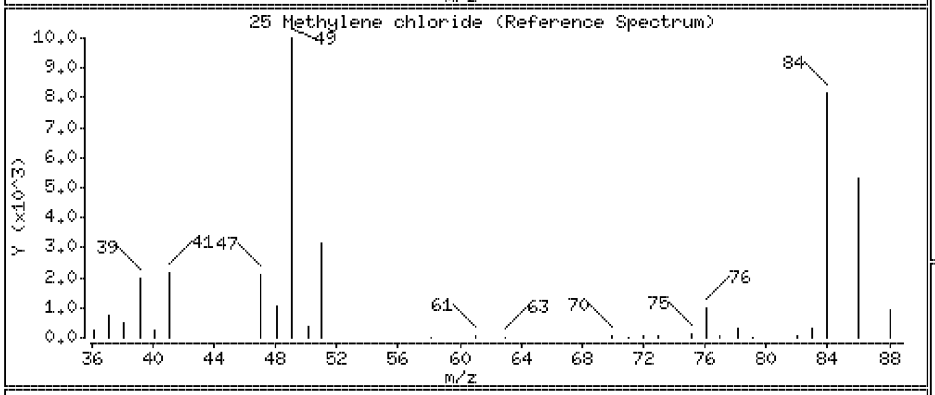
Column diameter: 0.32

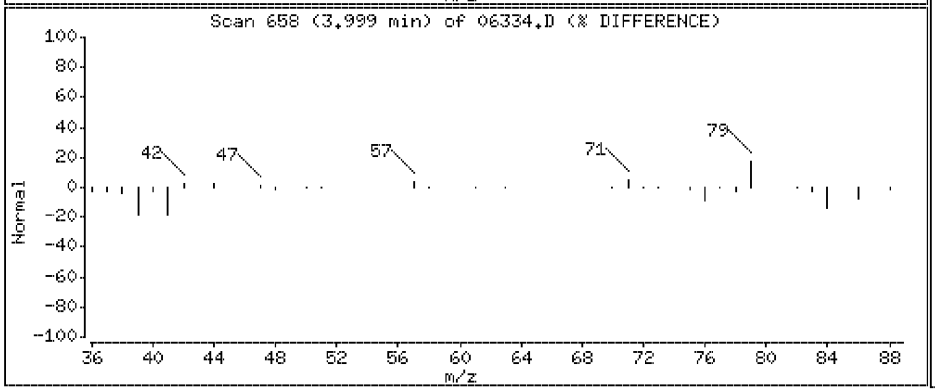
25 Methylene chloride

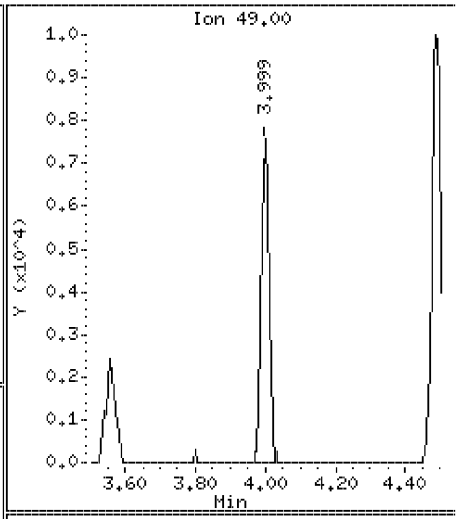
Concentration: 1.50 ppbv

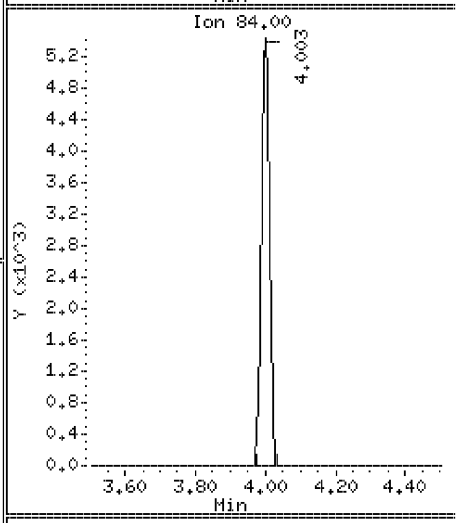


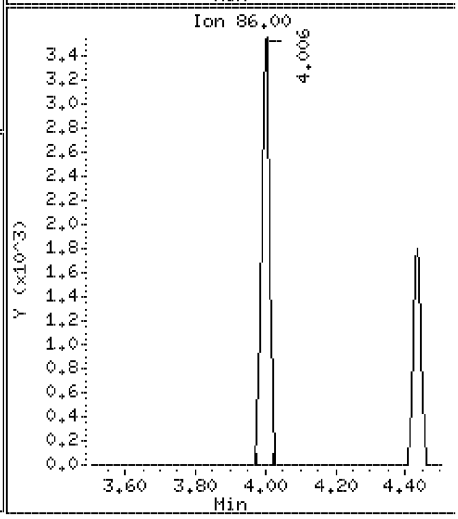












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

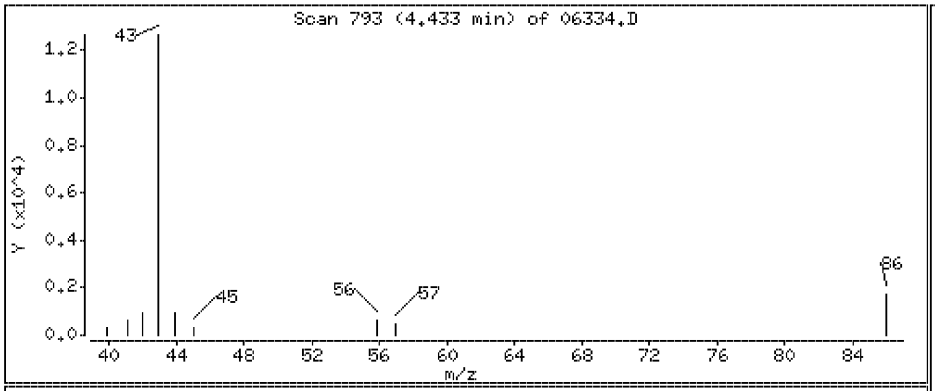
Operator: MJL

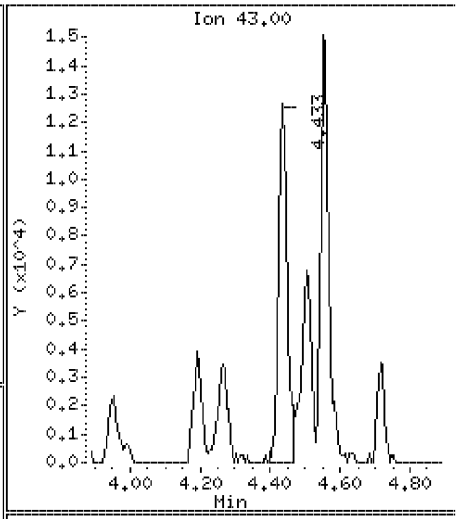
Column phase: J&W DB-5

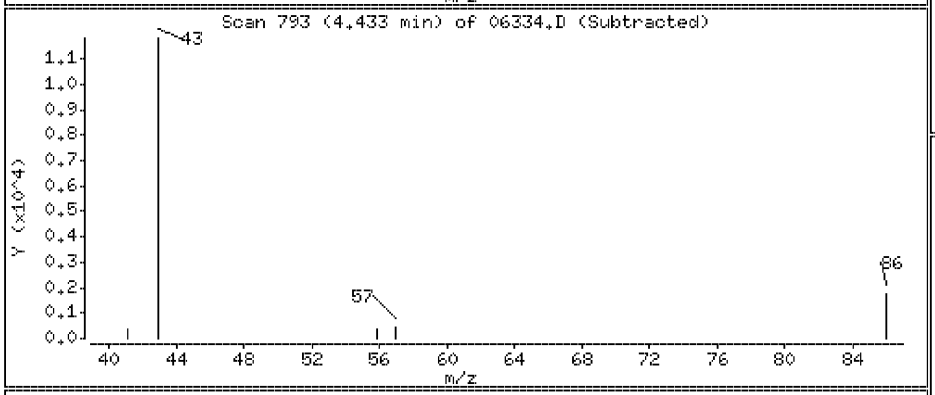
Column diameter: 0.32

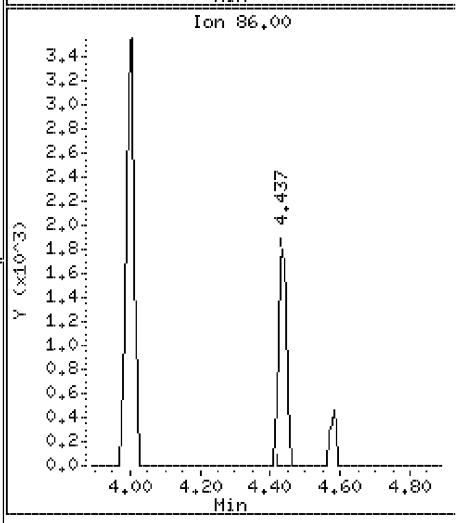
30 Vinyl Acetate

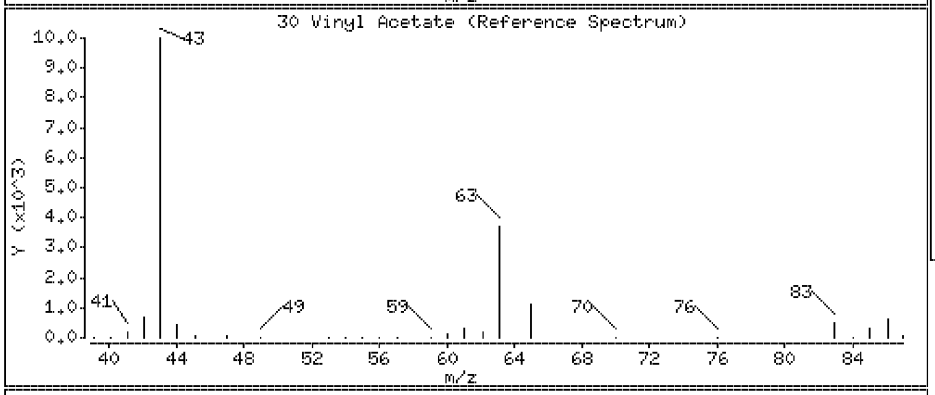
Concentration: 1.48 ppbv

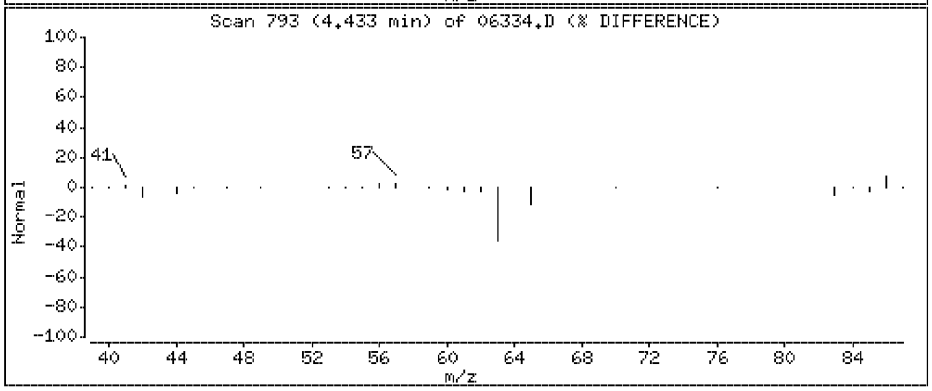












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

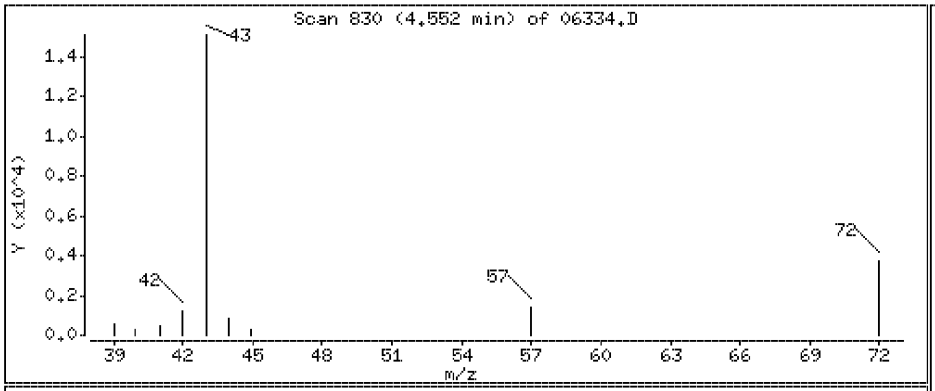
Operator: MJL

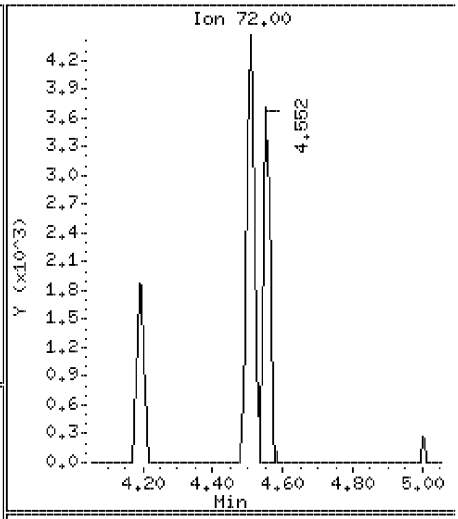
Column phase: J&W DB-5

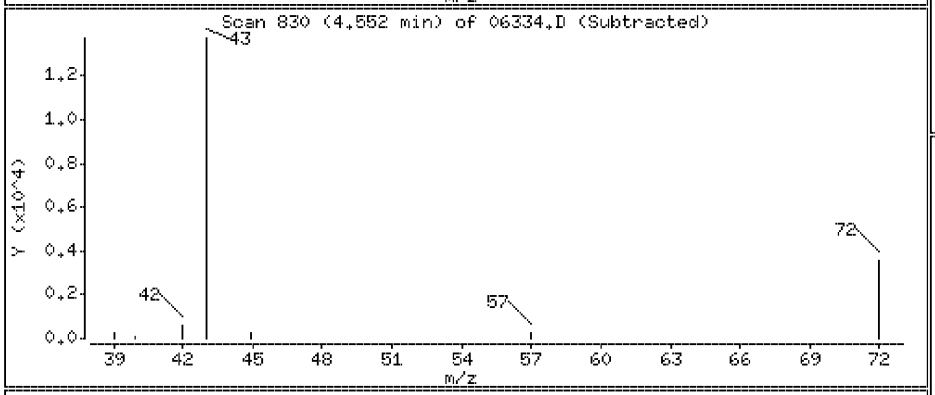
Column diameter: 0.32

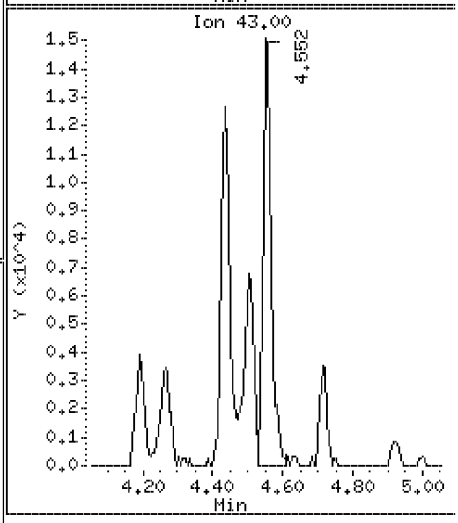
33 Methyl Ethyl Ketone

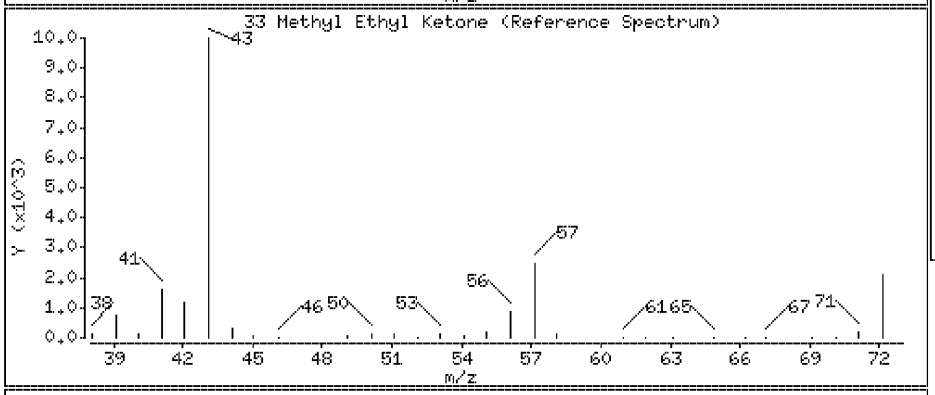
Concentration: 1.62 ppbv

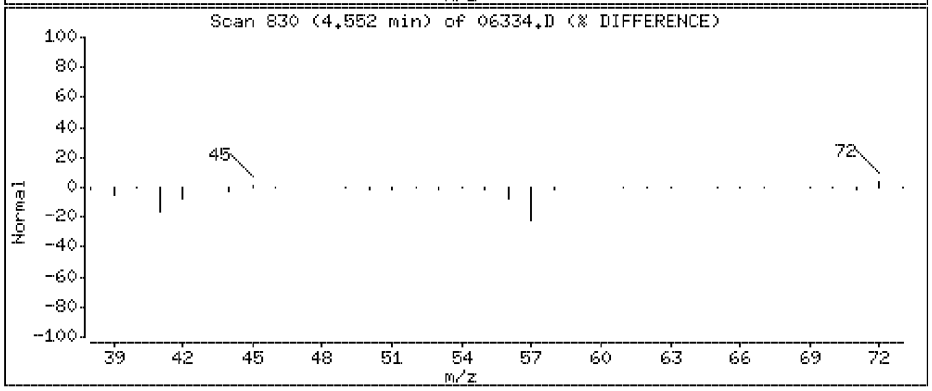












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

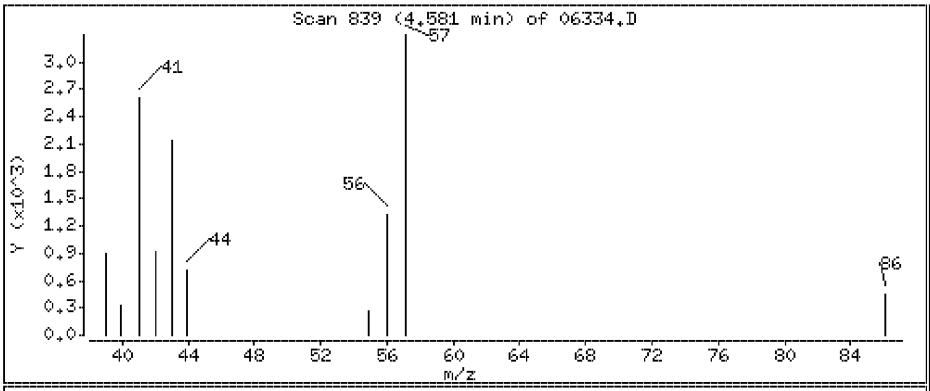
Operator: MJL

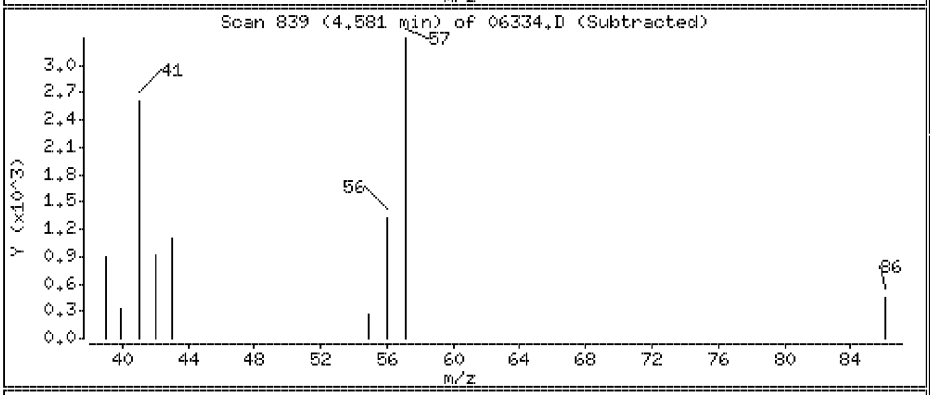
Column phase: J&W DB-5

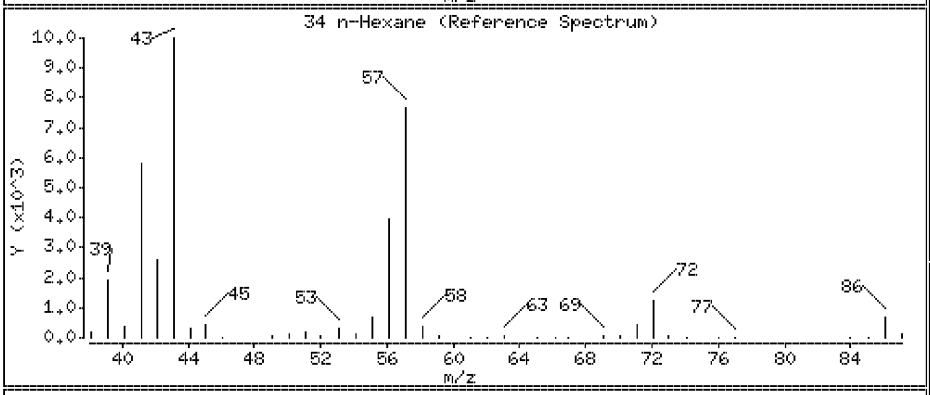
Column diameter: 0.32

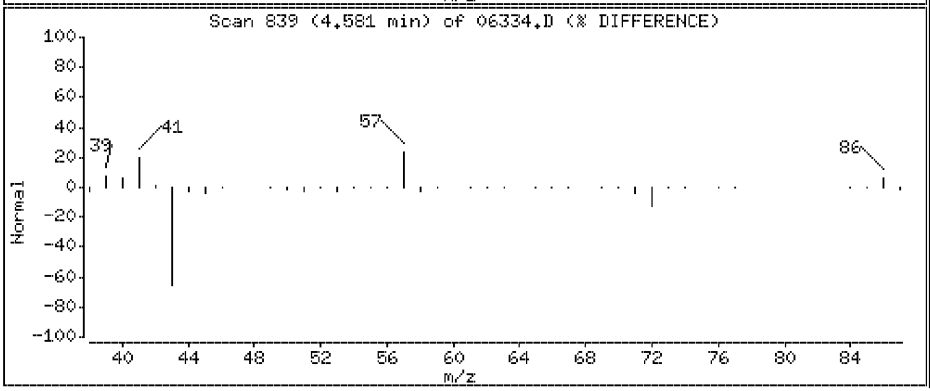
34 n-Hexane

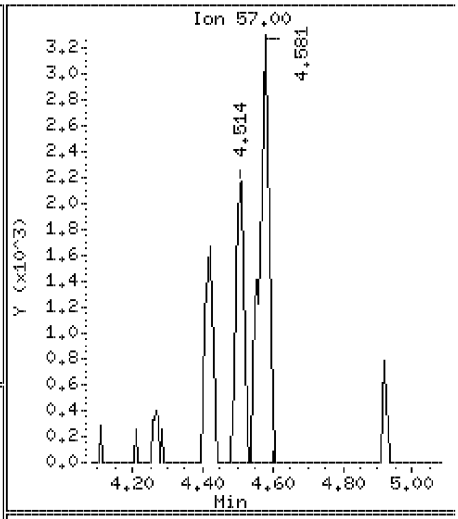
Concentration: 0.562 ppbv

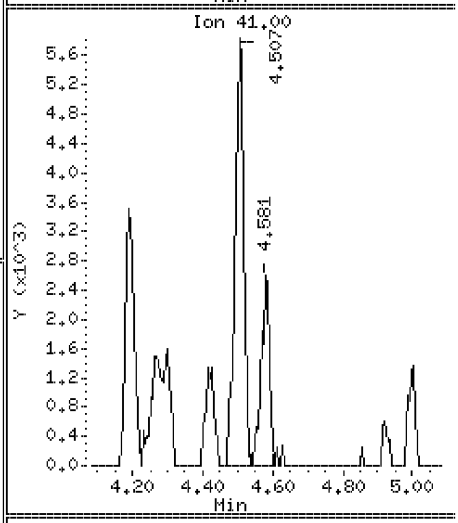


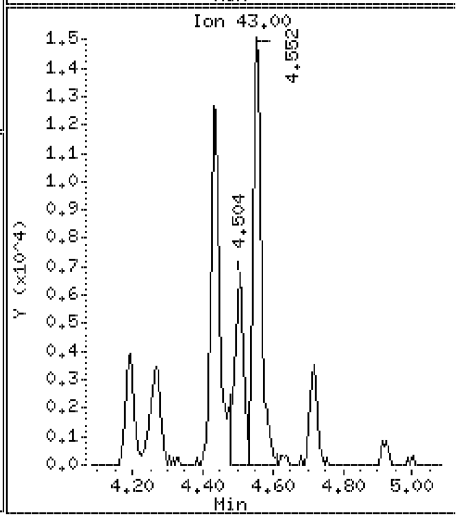












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

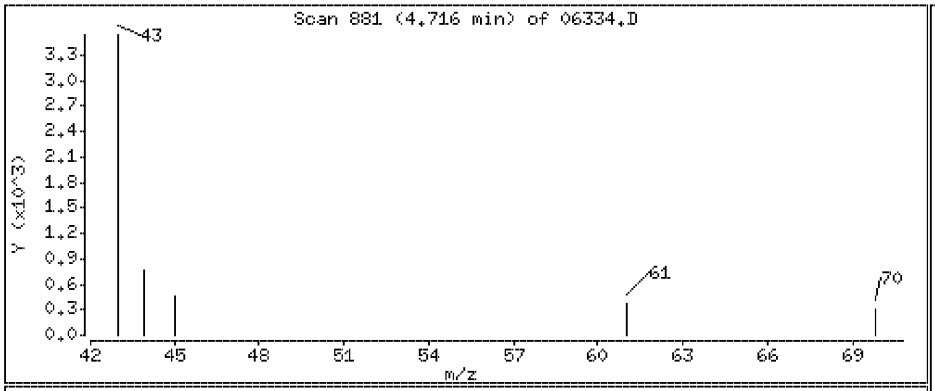
Operator: MJL

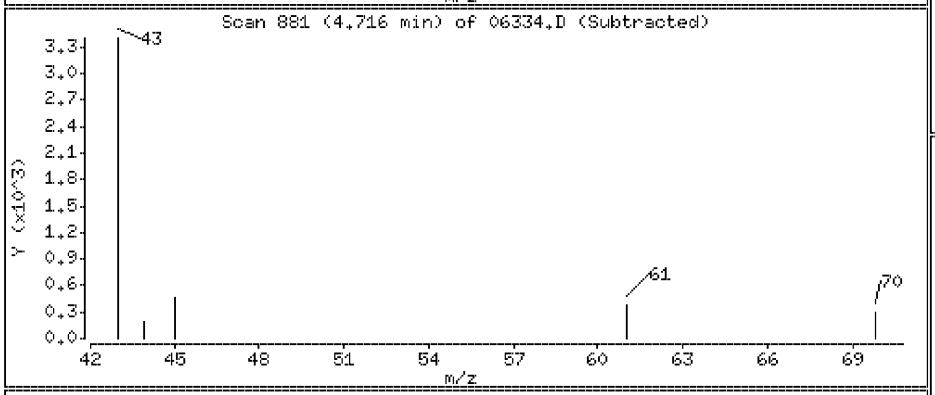
Column phase: J&W DB-5

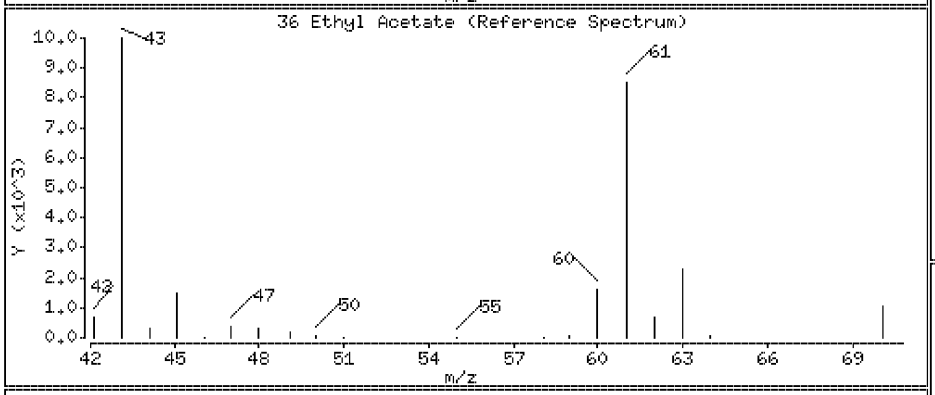
Column diameter: 0.32

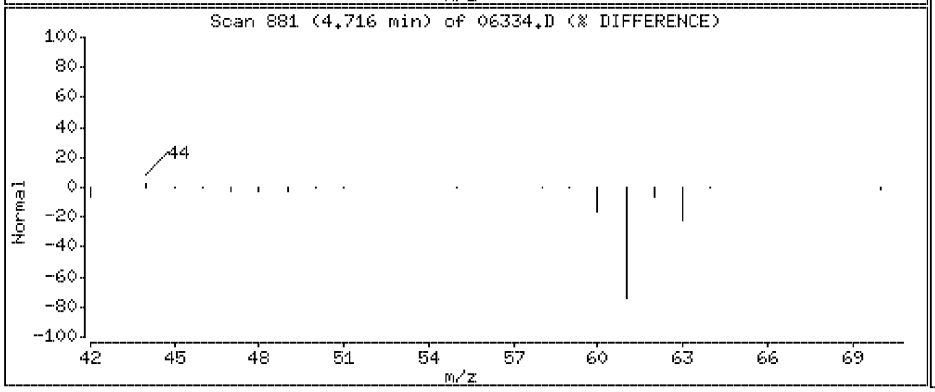
36 Ethyl Acetate

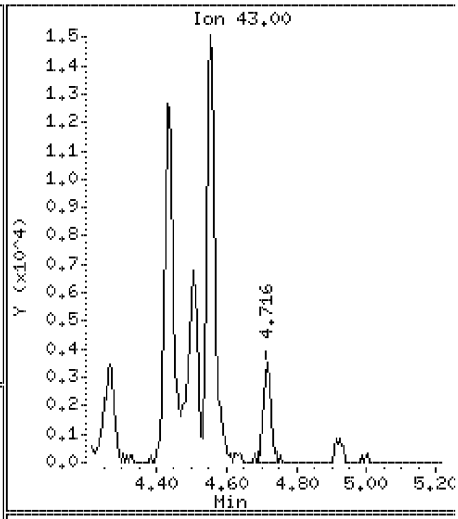
Concentration: 0.355 ppbv

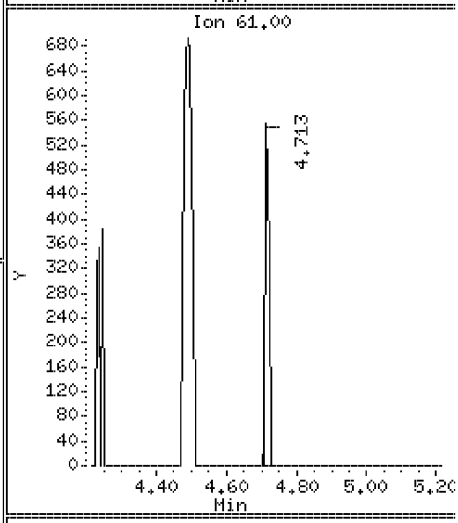


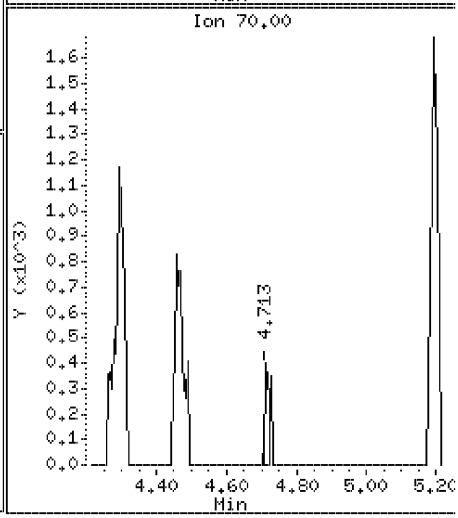












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

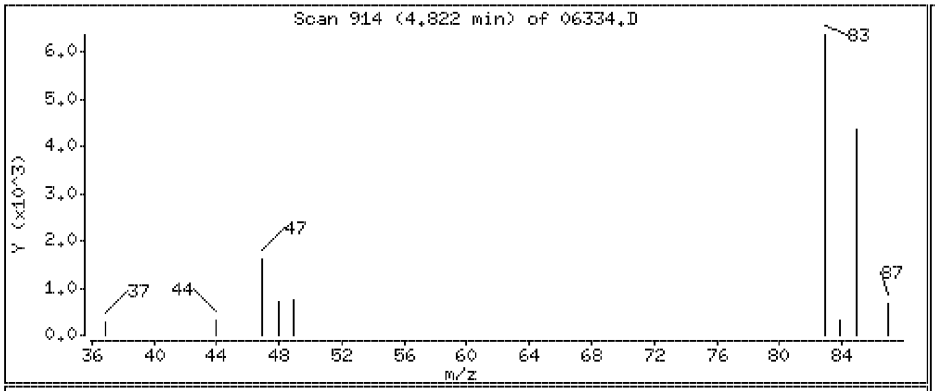
Operator: MJL

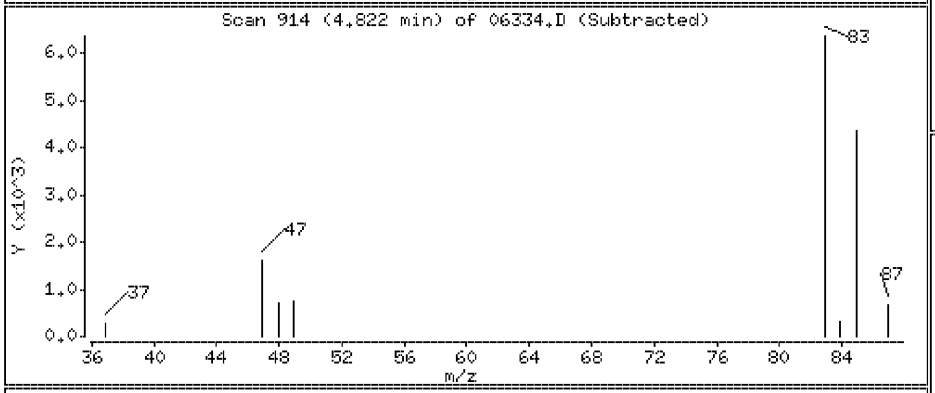
Column phase: J&W DB-5

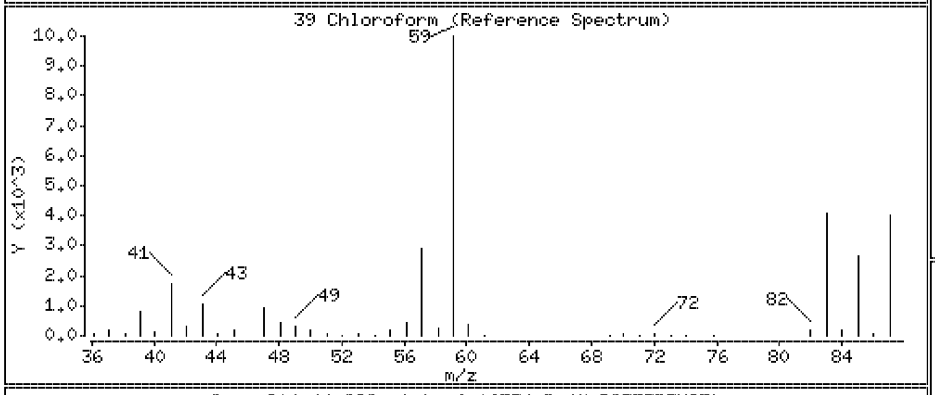
Column diameter: 0.32

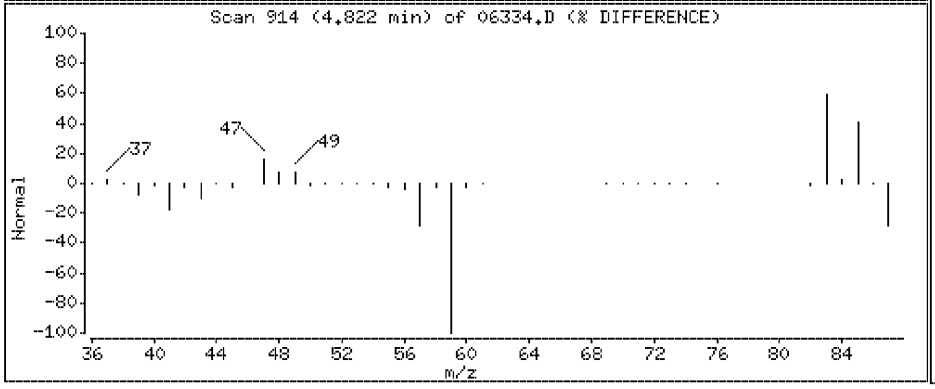
39 Chloroform

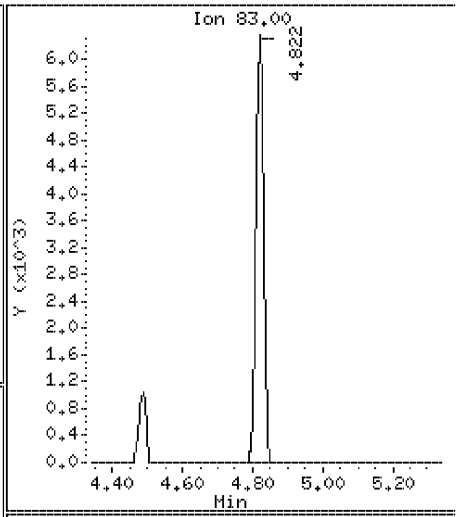
Concentration: 0.665 ppbv

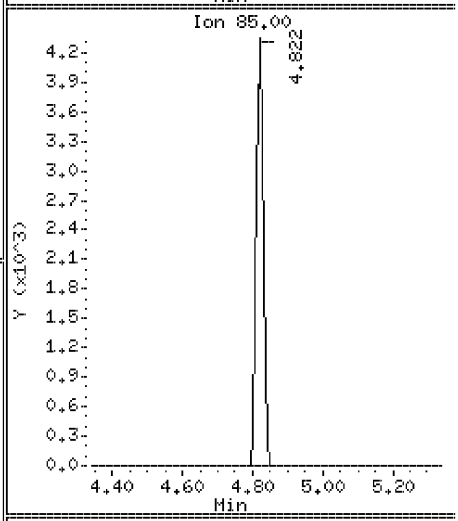


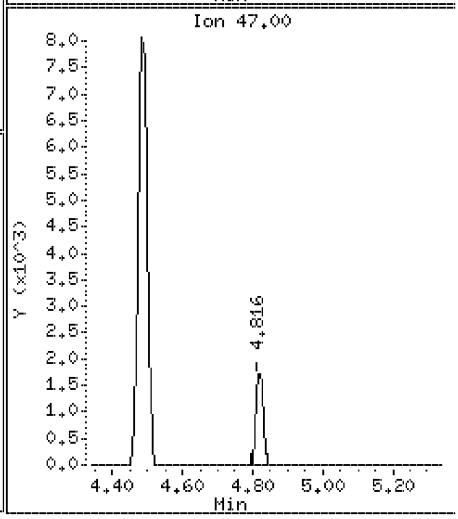












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

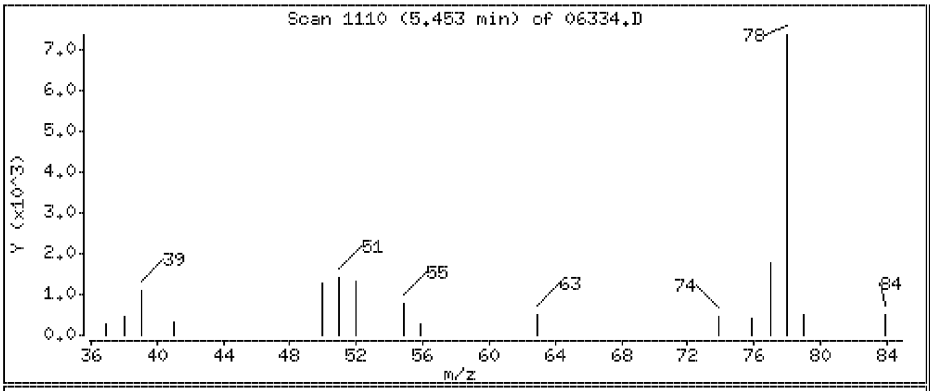
Operator: MJL

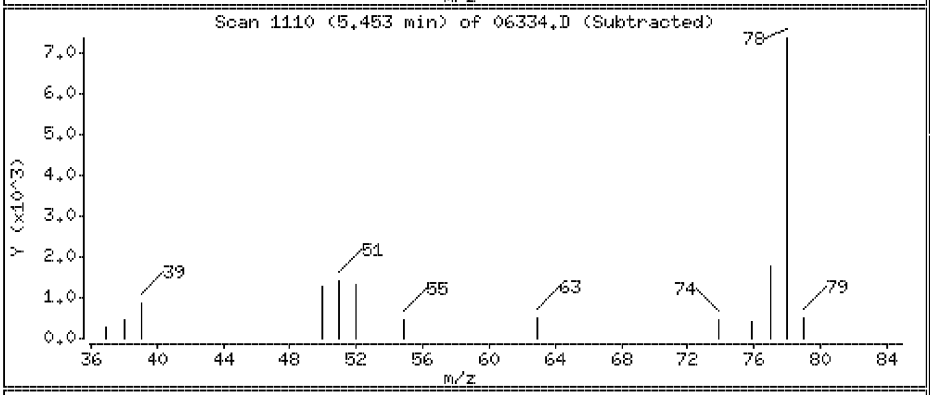
Column phase: J&W DB-5

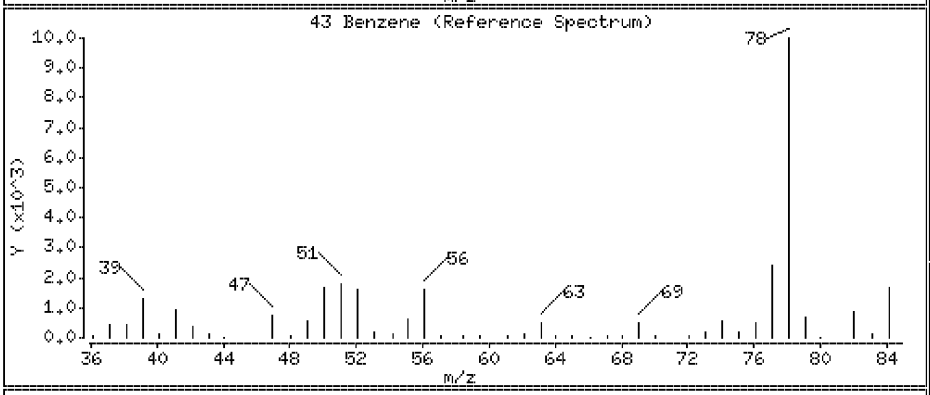
Column diameter: 0.32

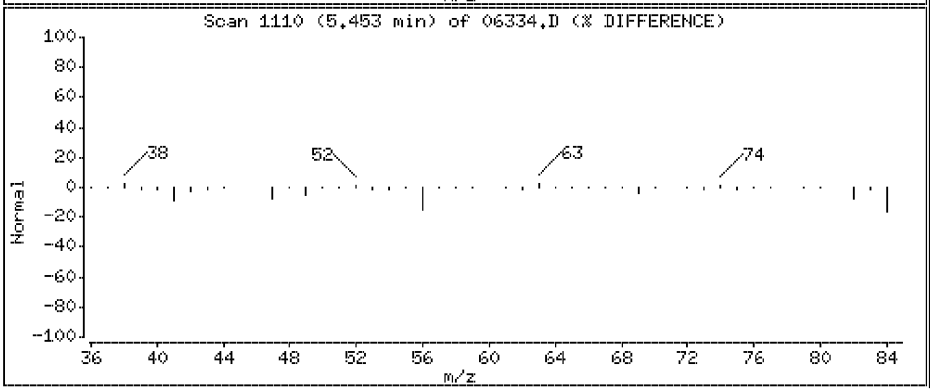
43 Benzene

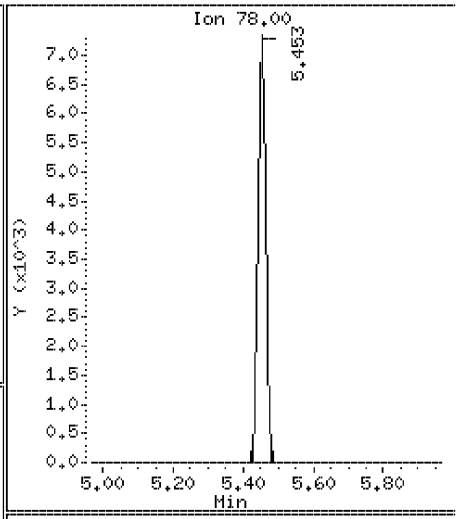
Concentration: 0.494 ppbv

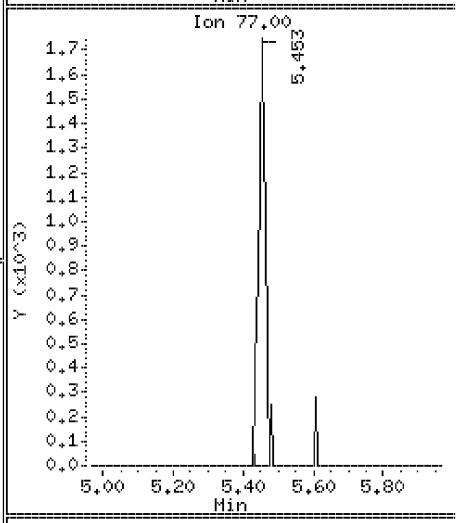


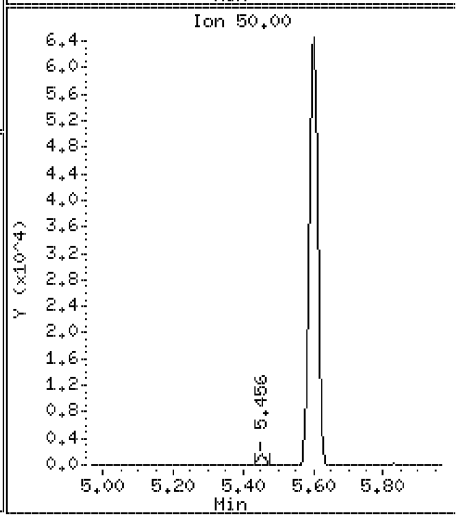












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

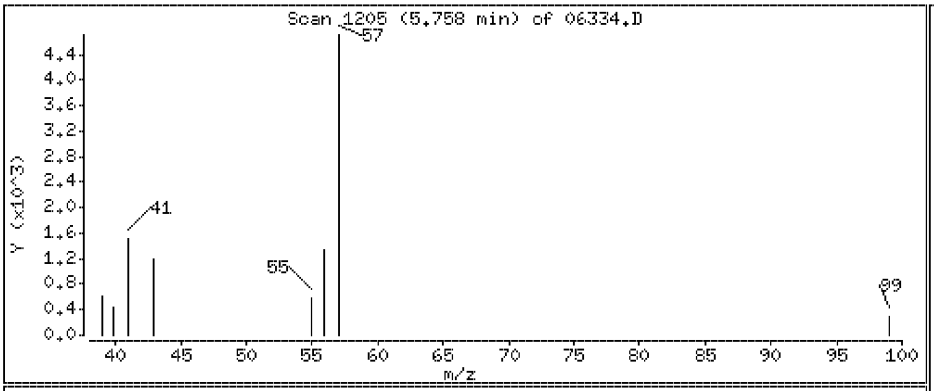
Operator: MJL

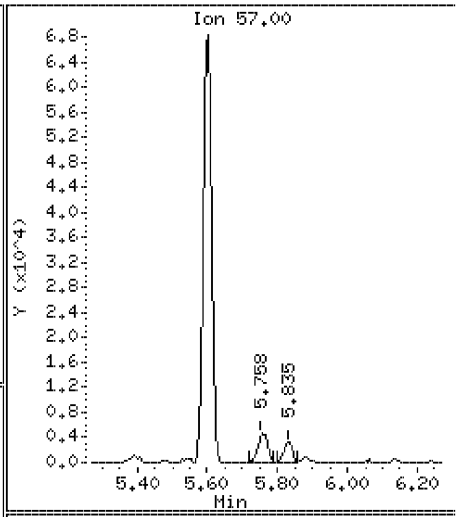
Column phase: J&W DB-5

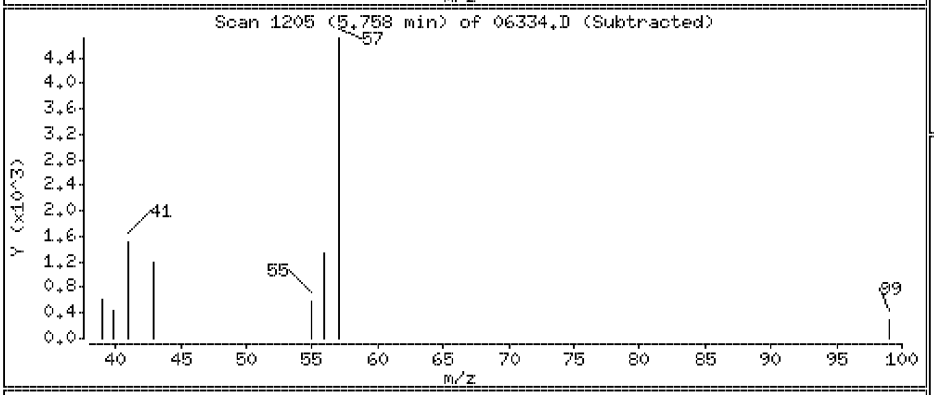
Column diameter: 0.32

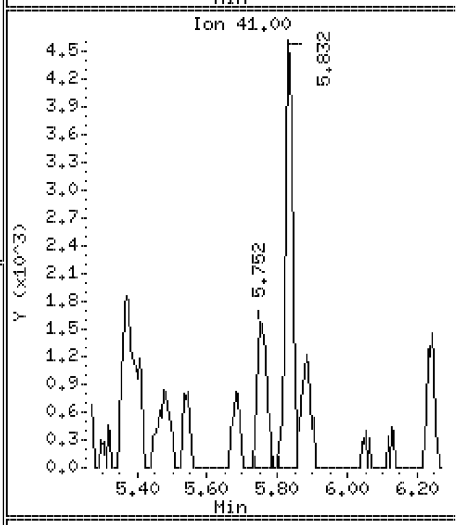
48 2,2,4-Trimethylpentane

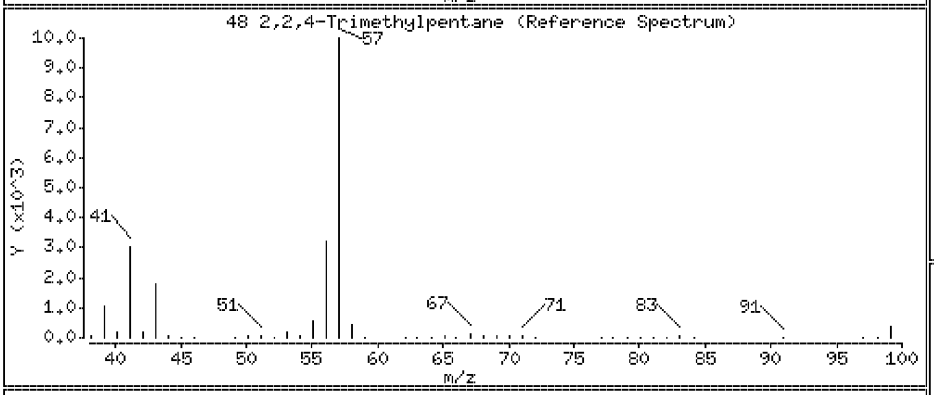
Concentration: 0.266 ppbv

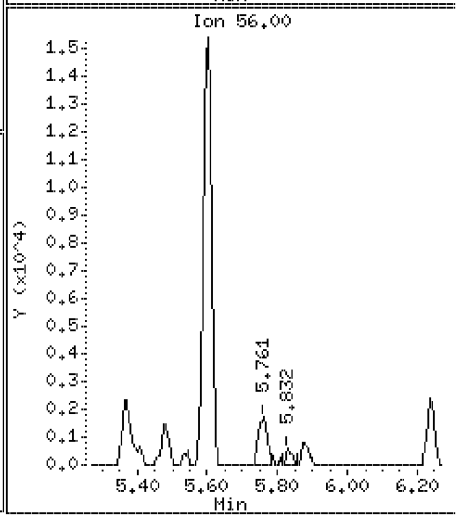


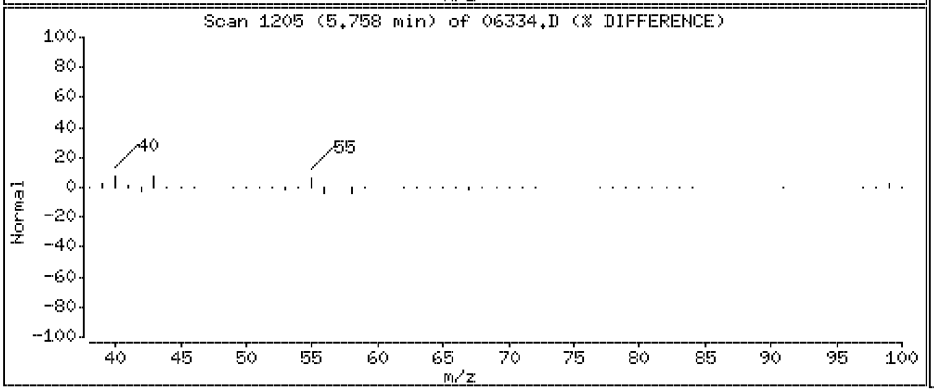












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

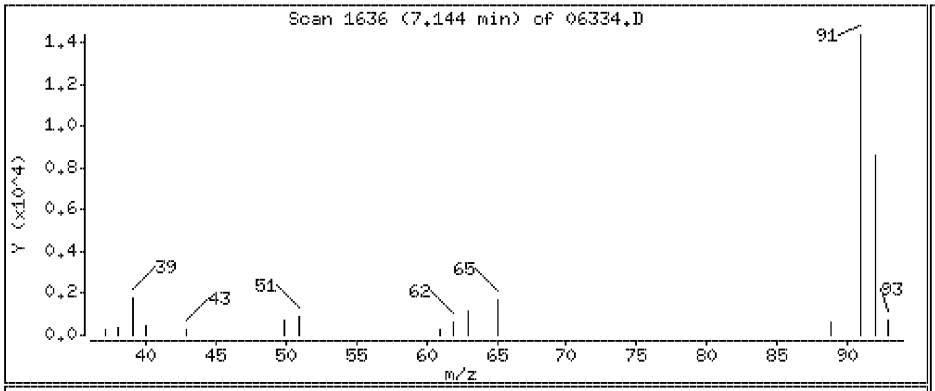
Operator: MJL

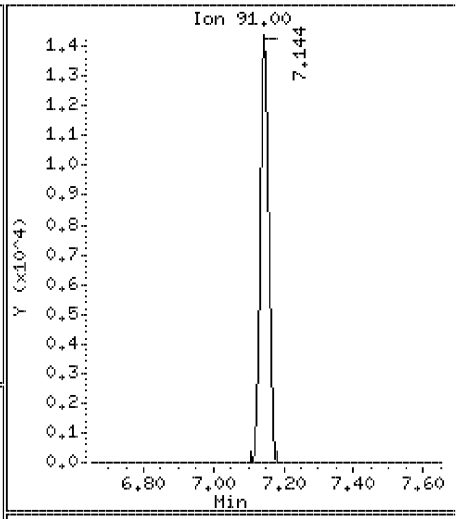
Column phase: J&W DB-5

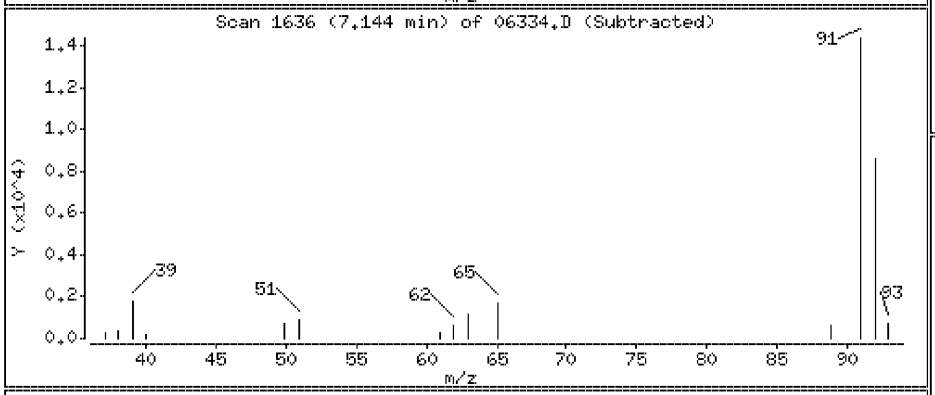
Column diameter: 0.32

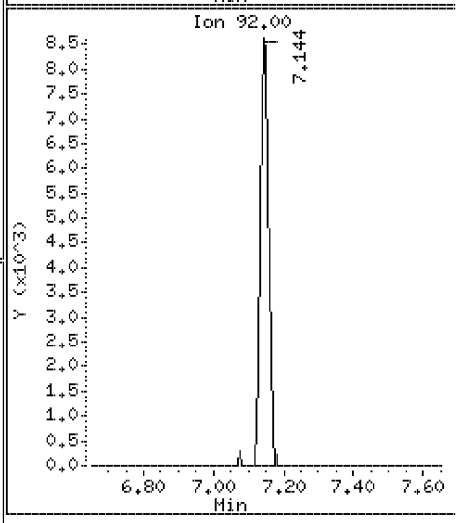
61 Toluene

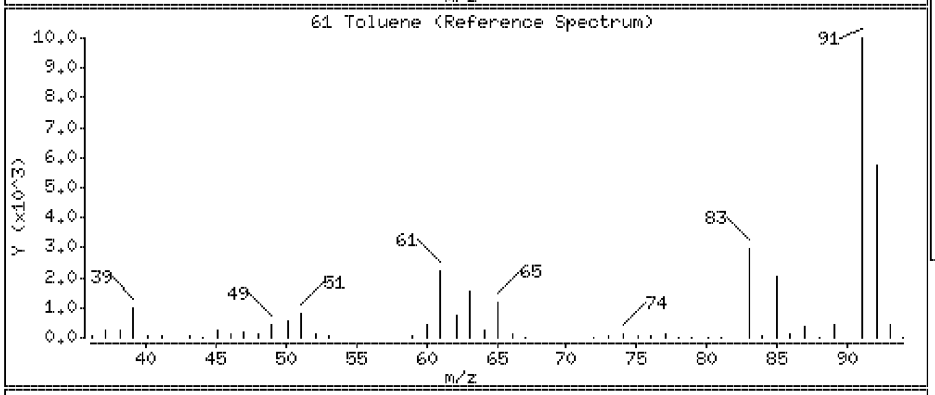
Concentration: 0.833 ppbv

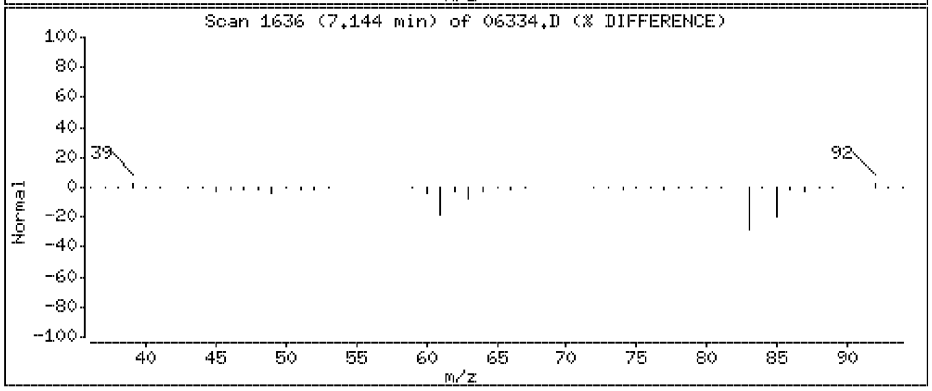












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

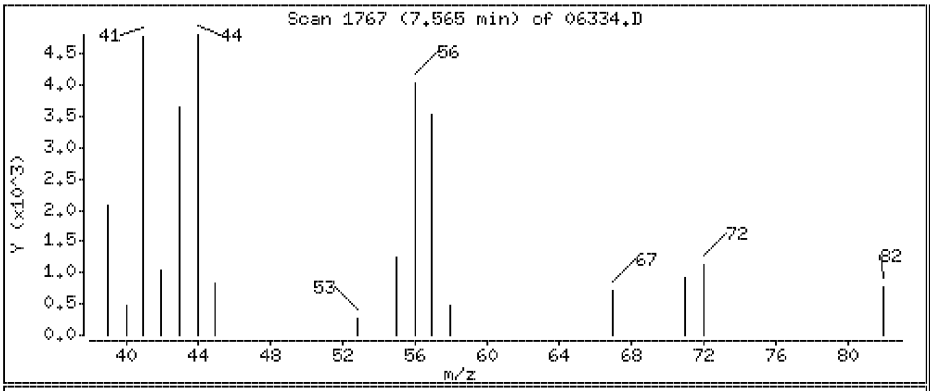
Operator: MJL

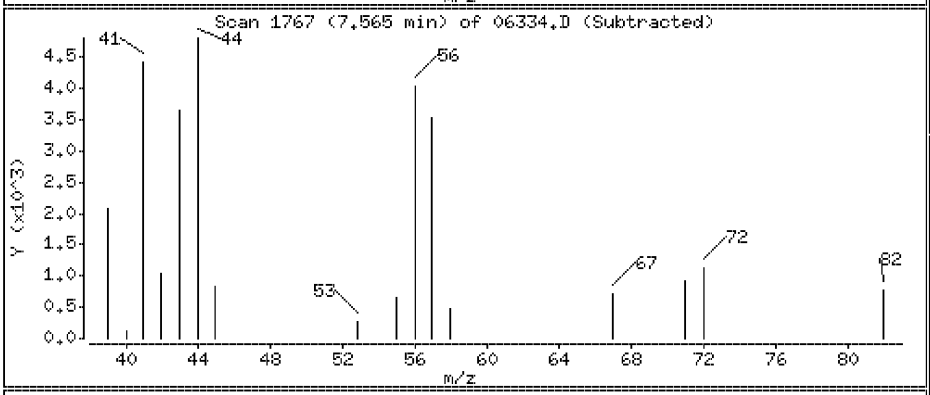
Column phase: J&W DB-5

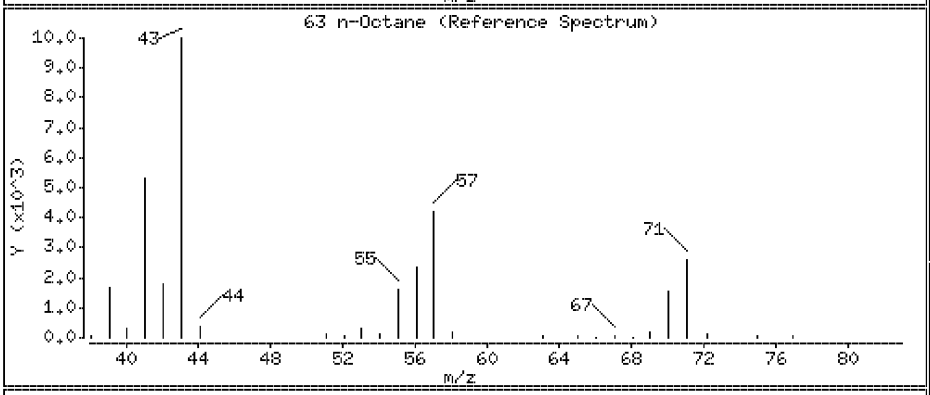
Column diameter: 0.32

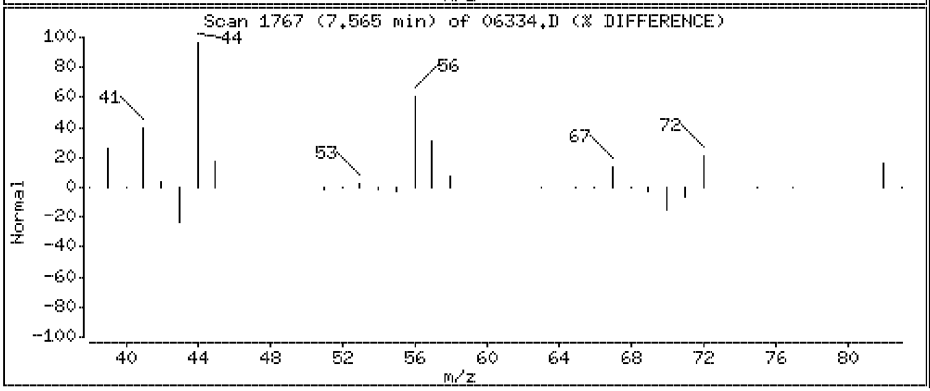
63 n-Octane

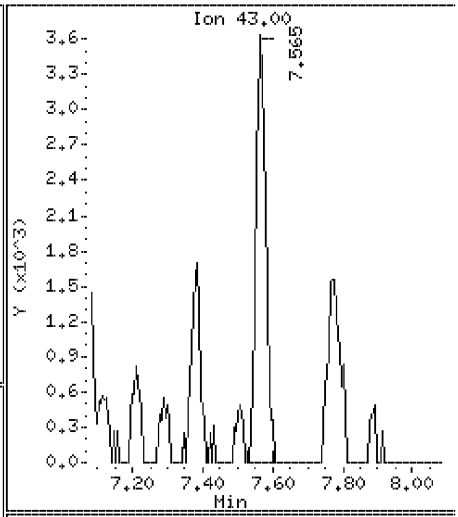
Concentration: 0.479 ppbv

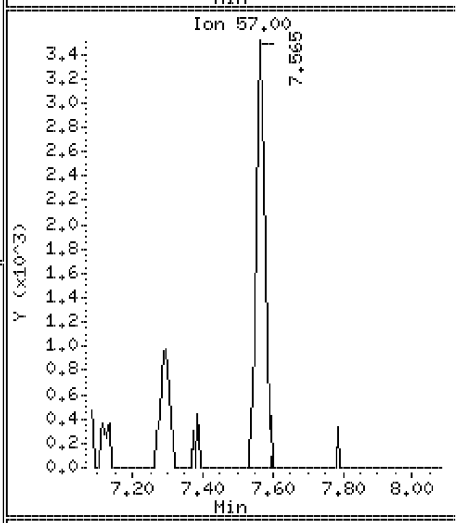


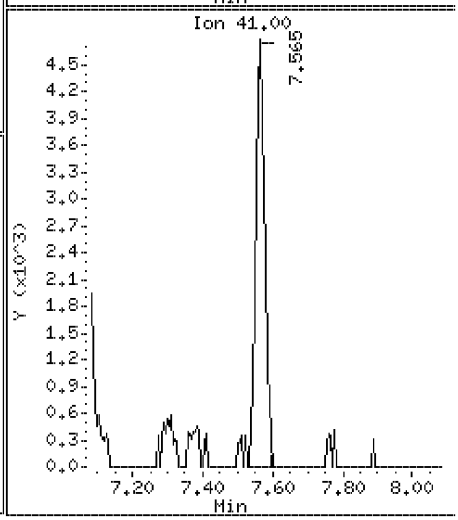












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

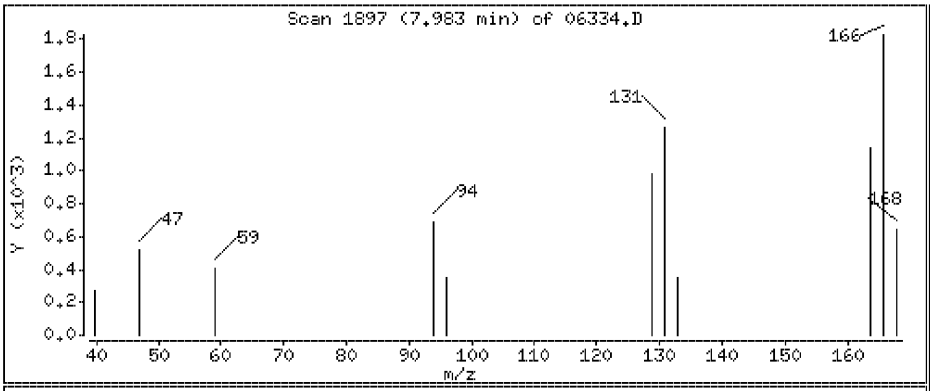
Operator: MJL

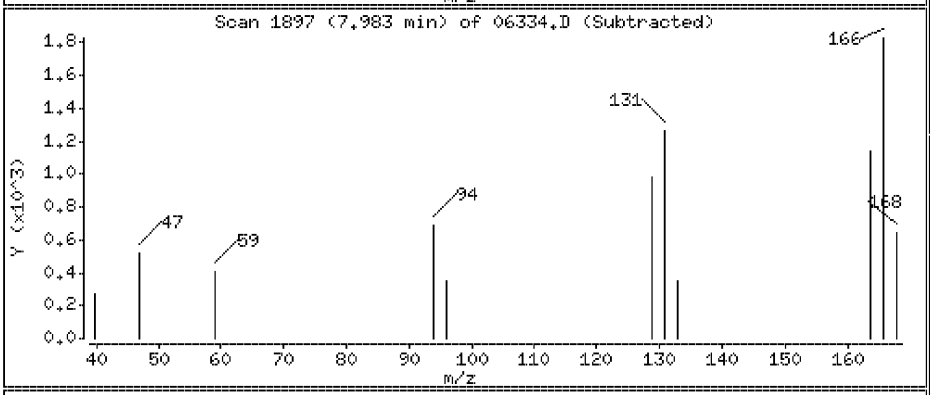
Column phase: J&W DB-5

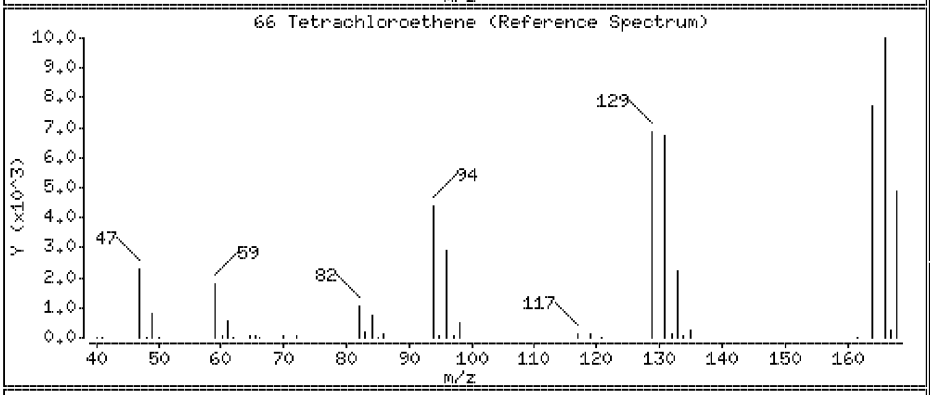
Column diameter: 0.32

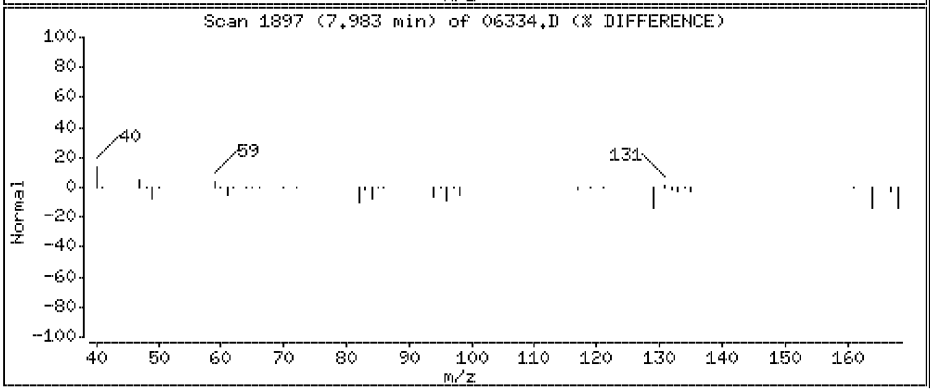
66 Tetrachloroethene

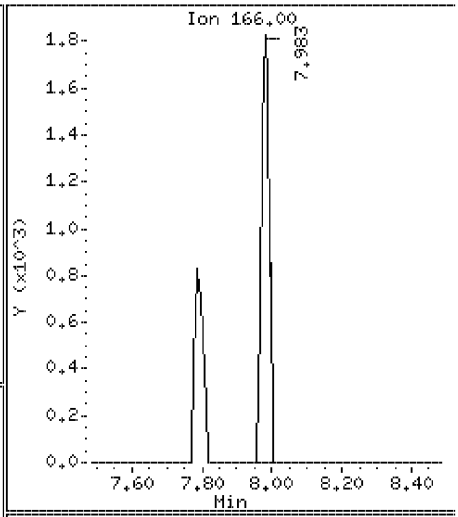
Concentration: 0.191 ppbv

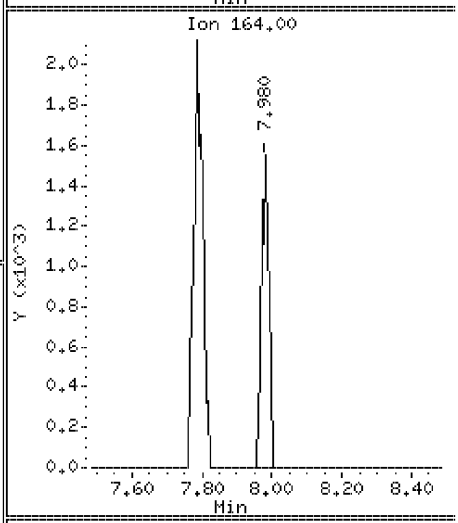


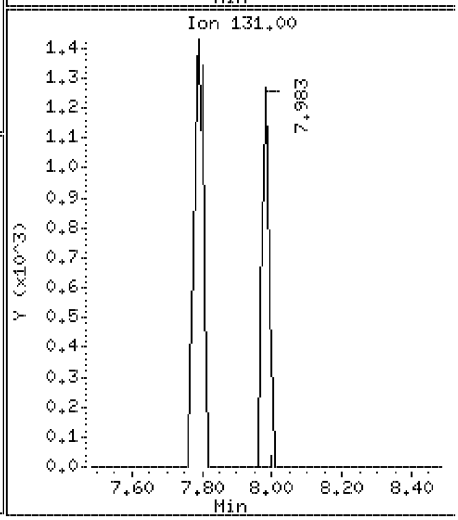












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

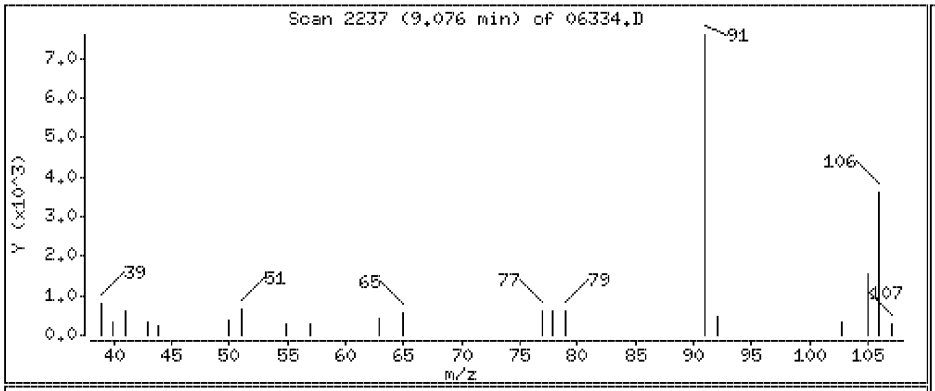
Operator: MJL

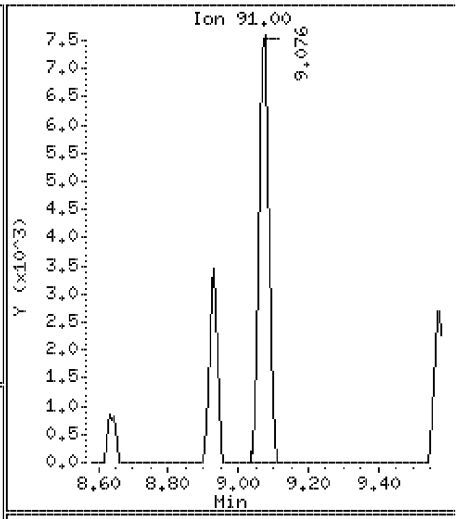
Column phase: J&W DB-5

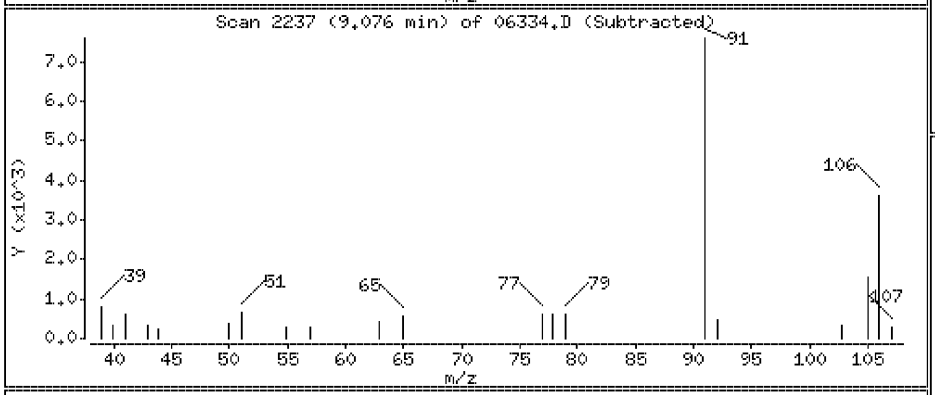
Column diameter: 0.32

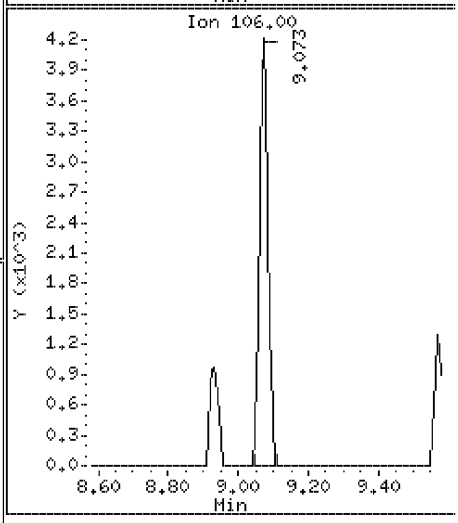
70 m&p-Xylene

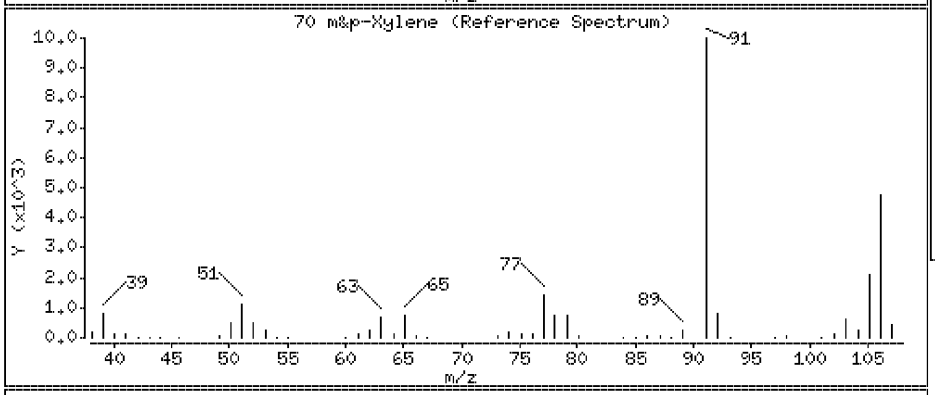
Concentration: 0.583 ppbv

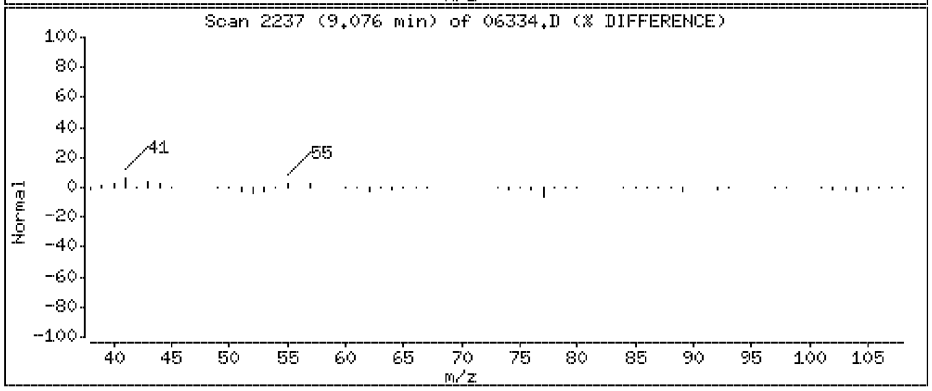












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

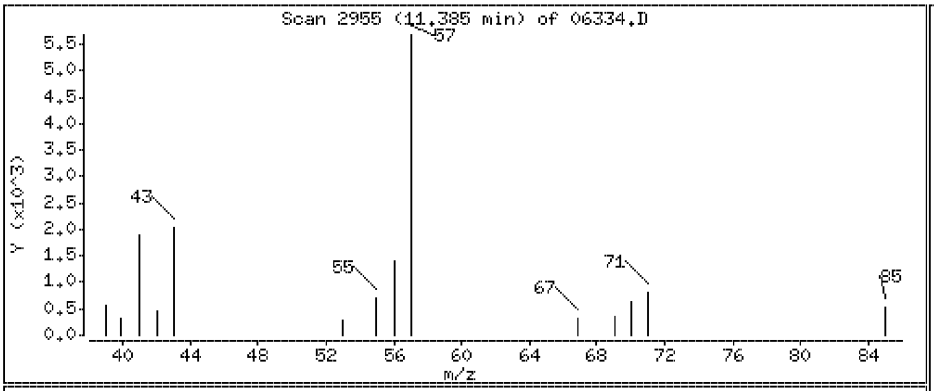
Operator: MJL

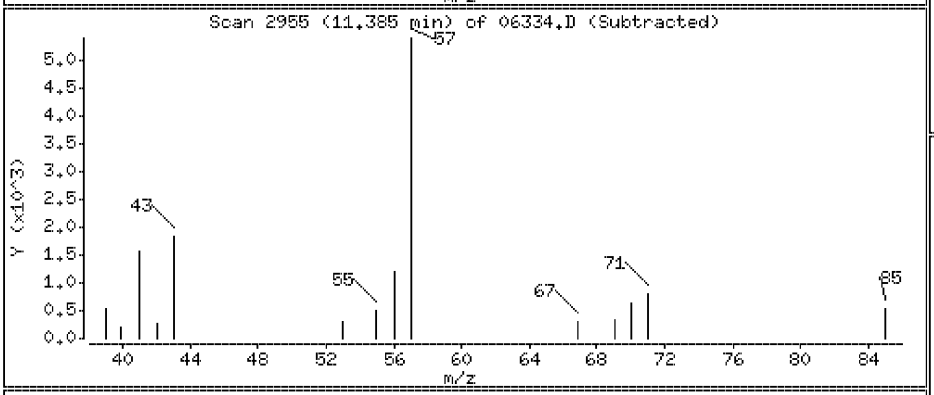
Column phase: J&W DB-5

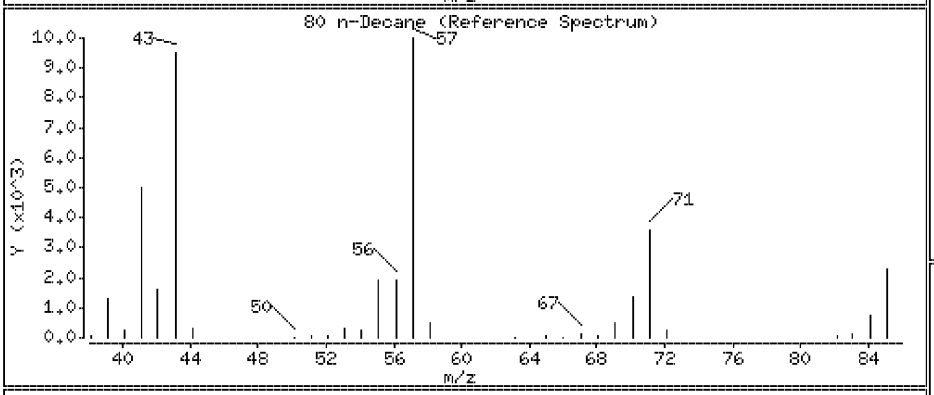
Column diameter: 0.32

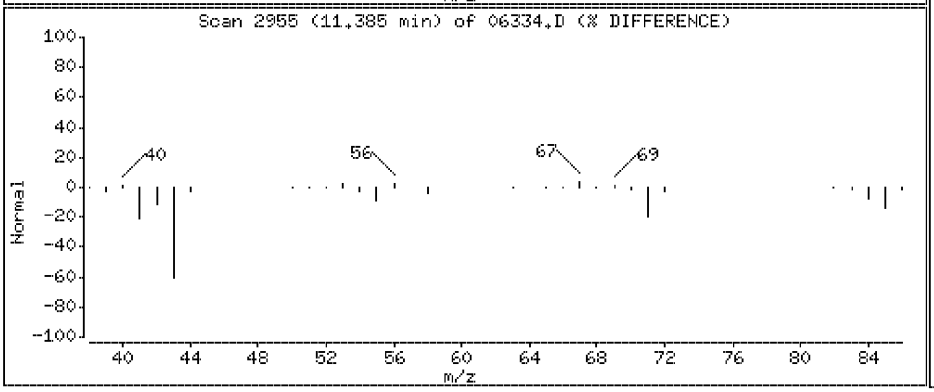
80 n-Decane

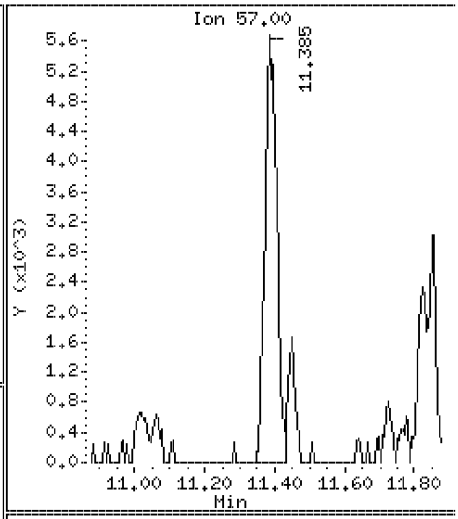
Concentration: 1.21 ppbv

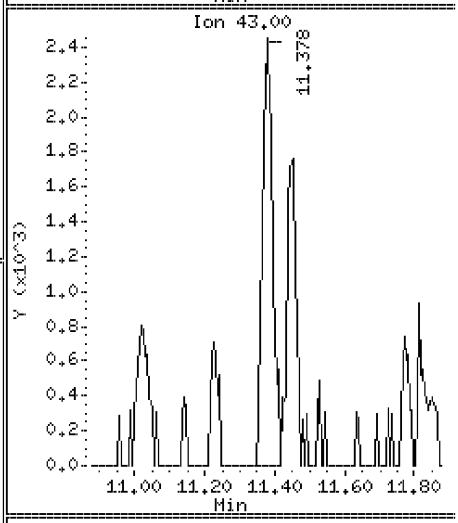


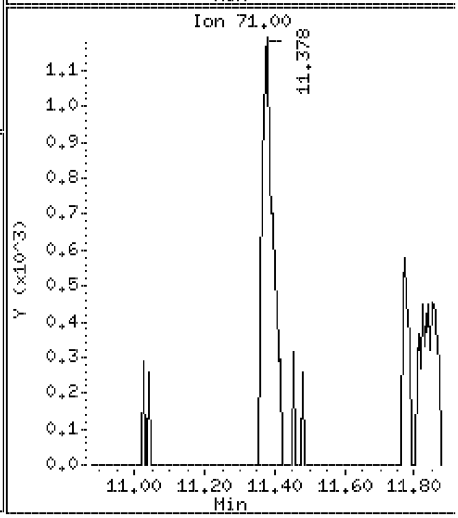












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

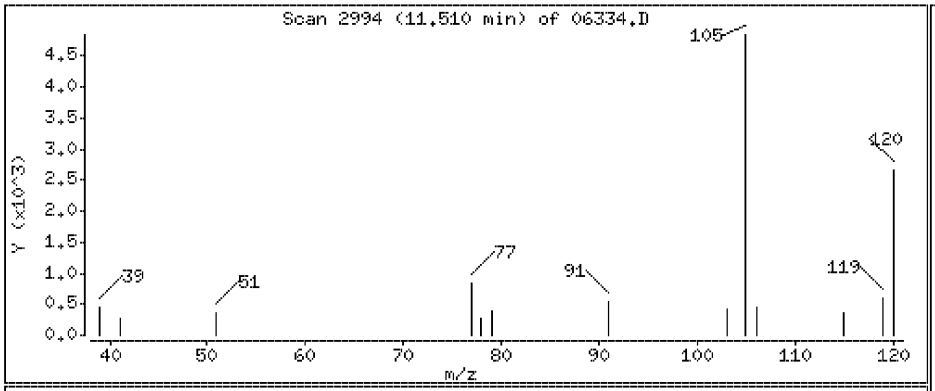
Operator: MJL

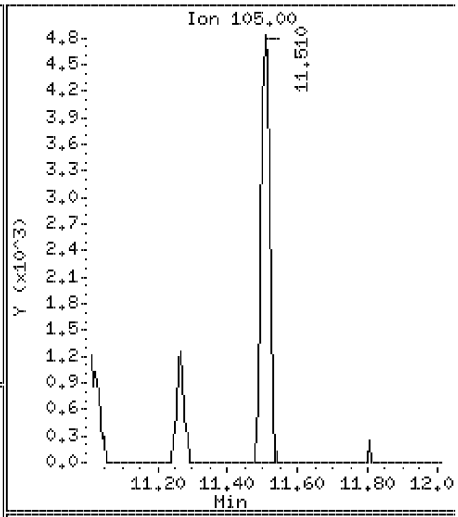
Column phase: J&W DB-5

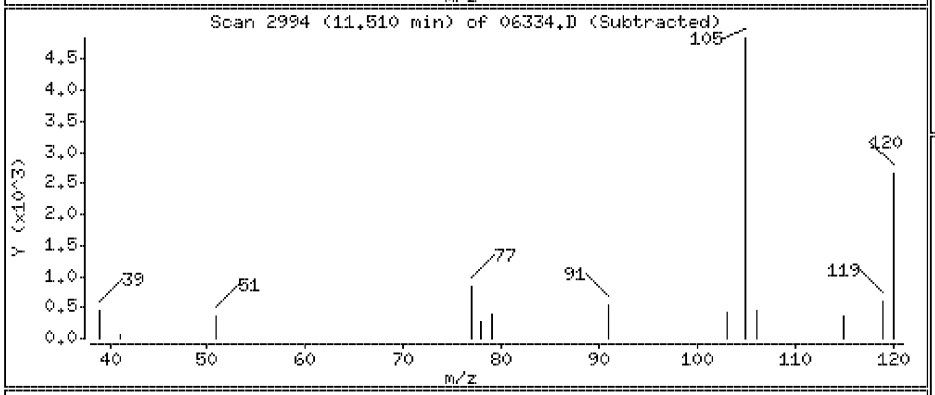
Column diameter: 0.32

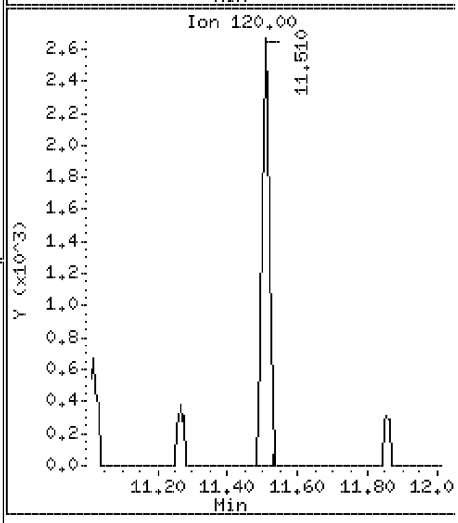
82 1,2,4-Trimethylbenzene

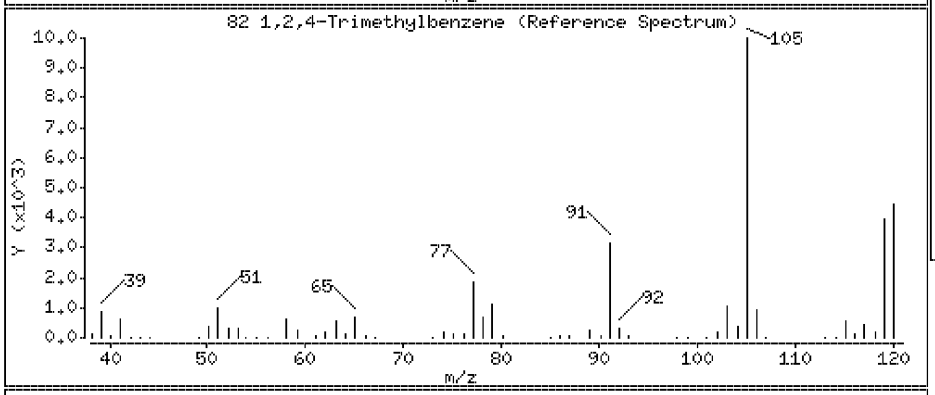
Concentration: 0.318 ppbv

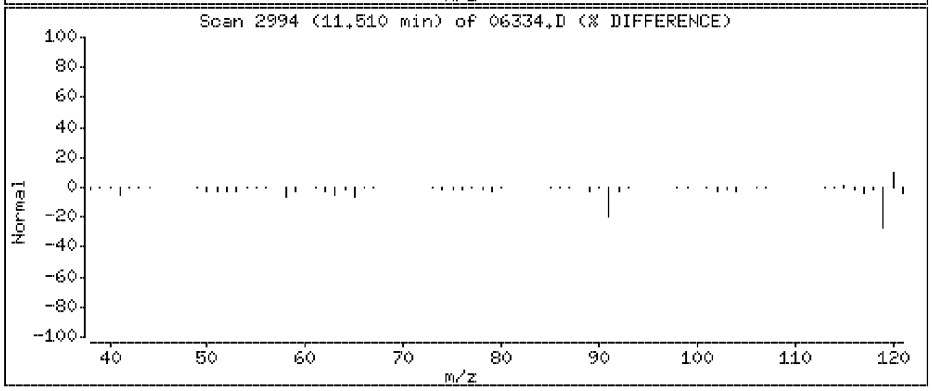












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06334.D

Date : 04-MAR-2017 23:52

Client ID:

Instrument: 10airB.i

Sample Info:

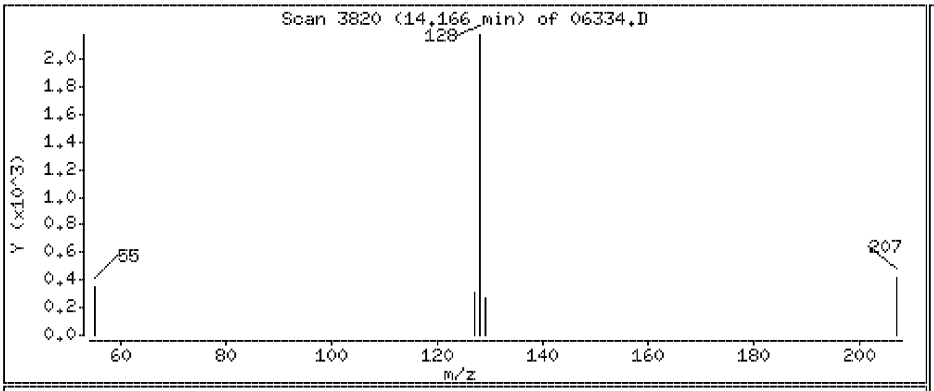
Operator: MJL

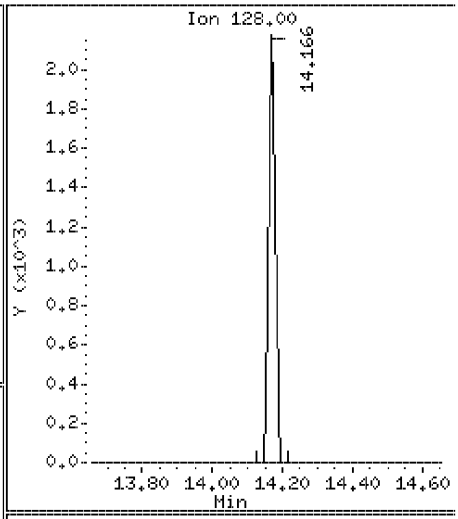
Column phase: J&W DB-5

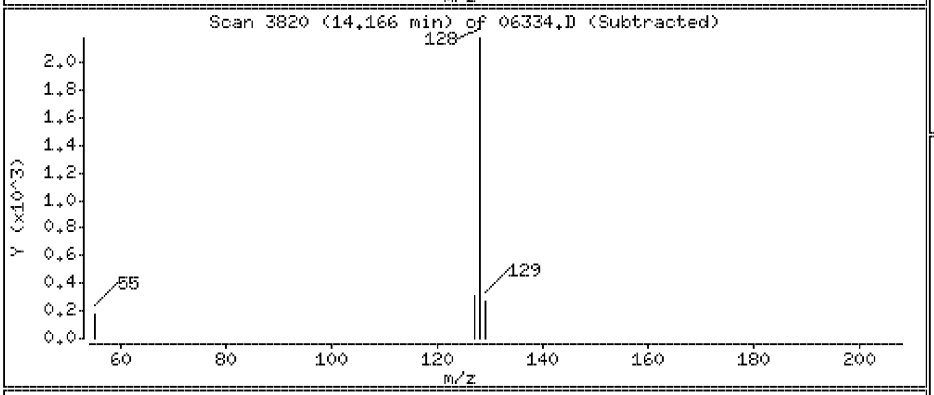
Column diameter: 0.32

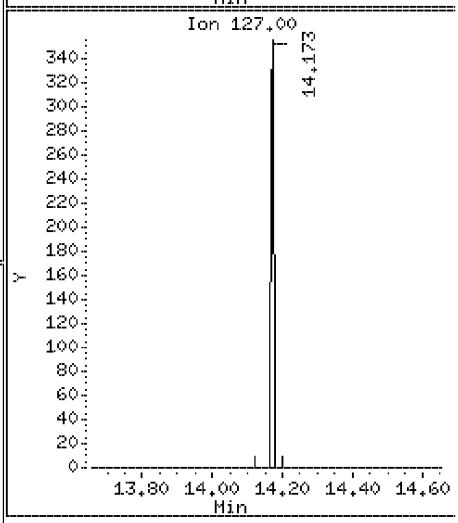
94 Naphthalene

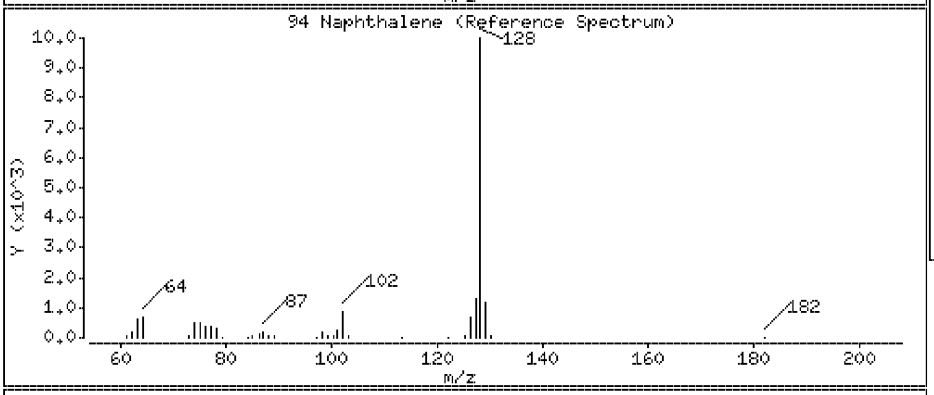
Concentration: 0.837 ppbv

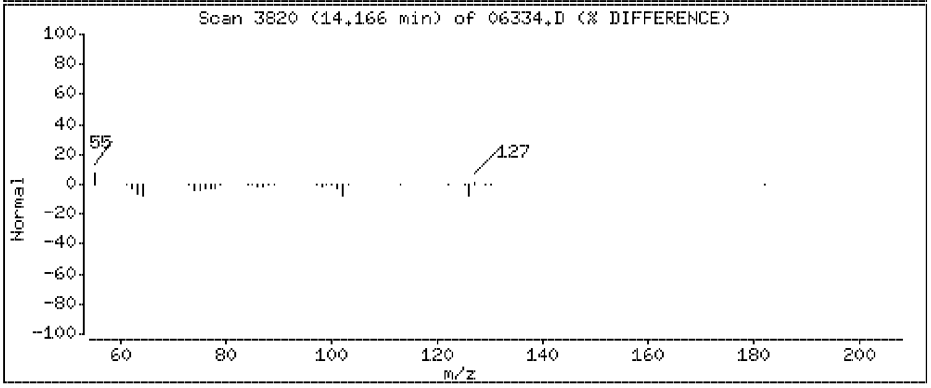






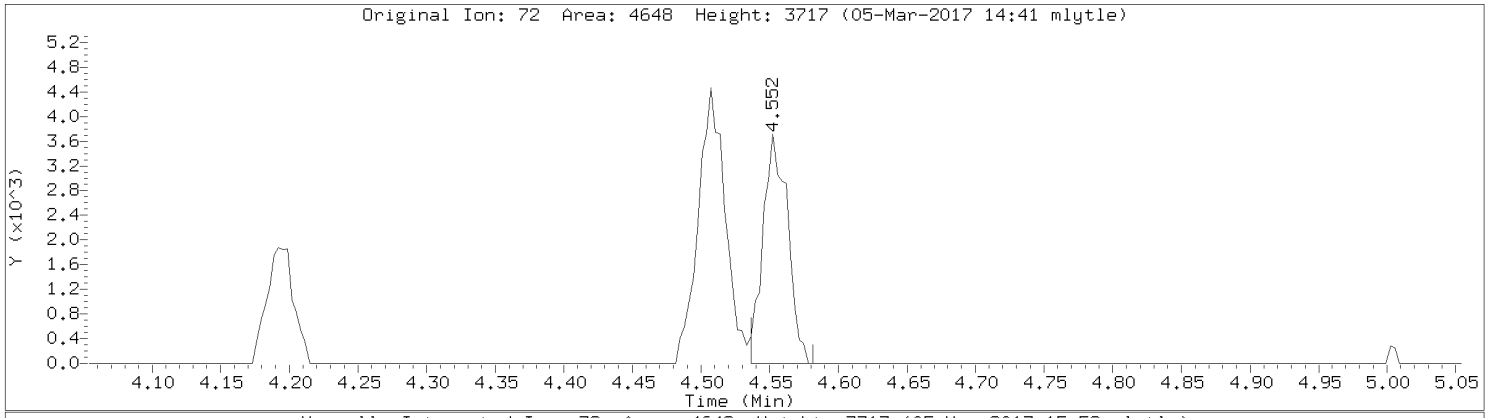


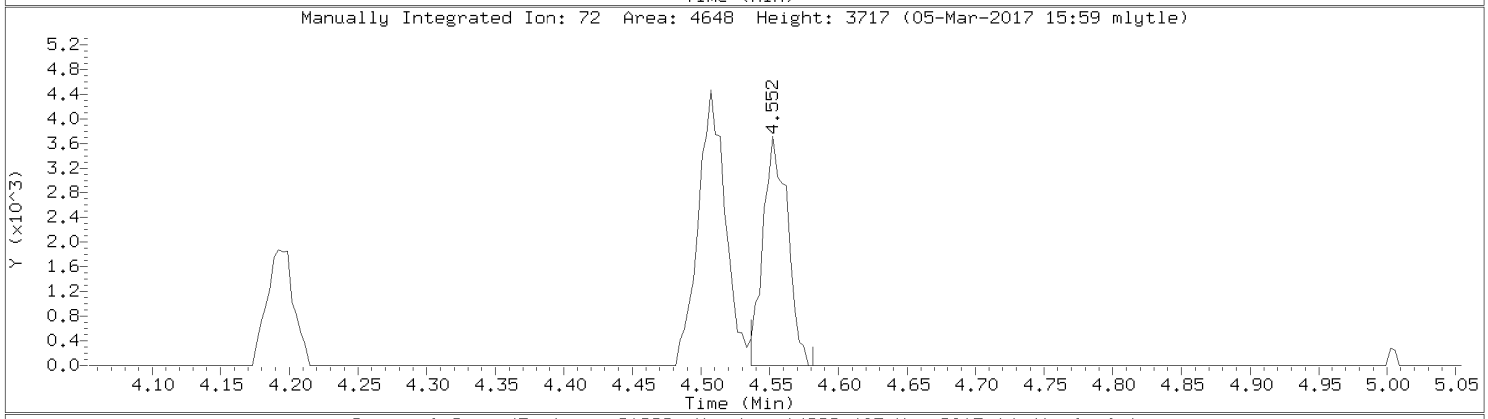


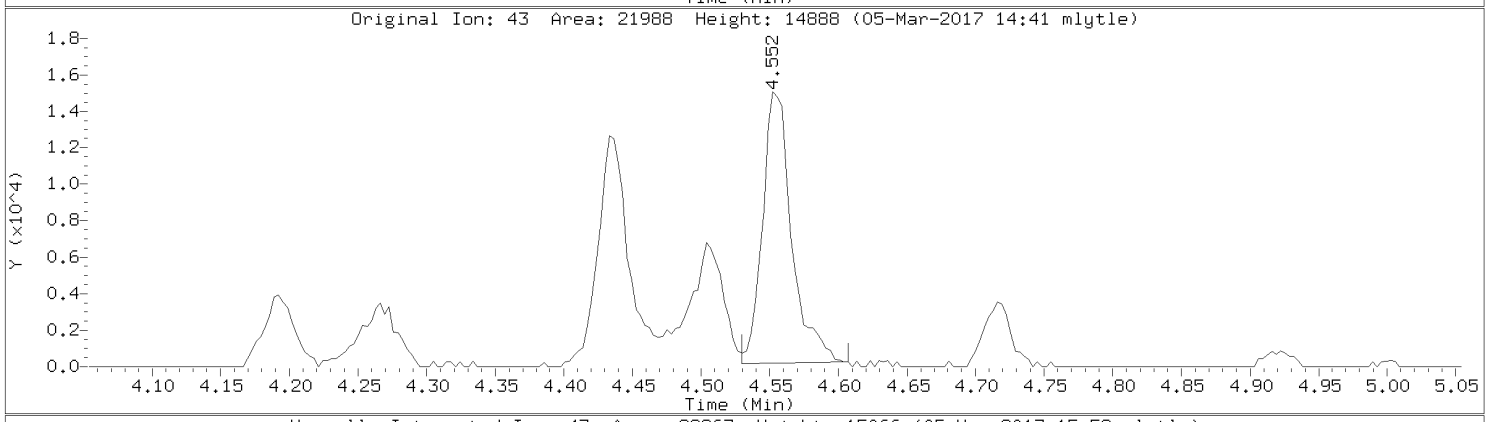


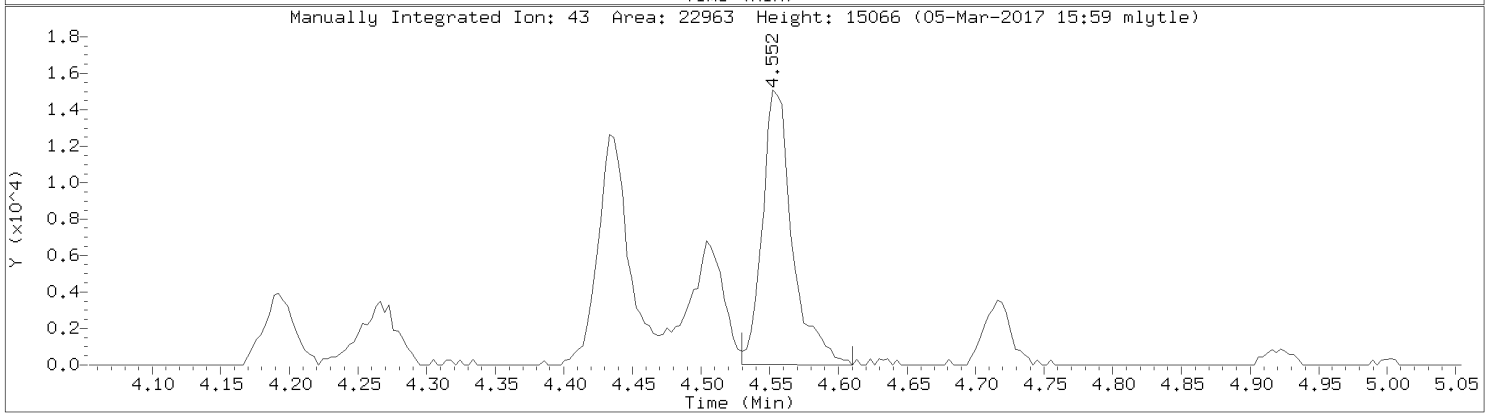
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06334.D
Injection Date: 04-MAR-2017 23:52
Instrument: 10airB.i
Lab Sample ID: 10379458007

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



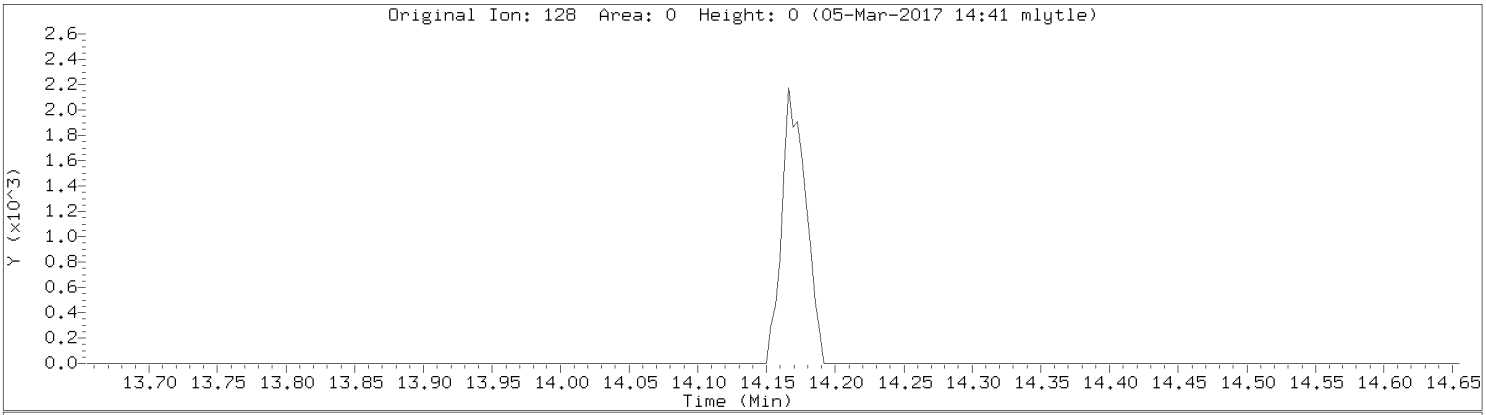


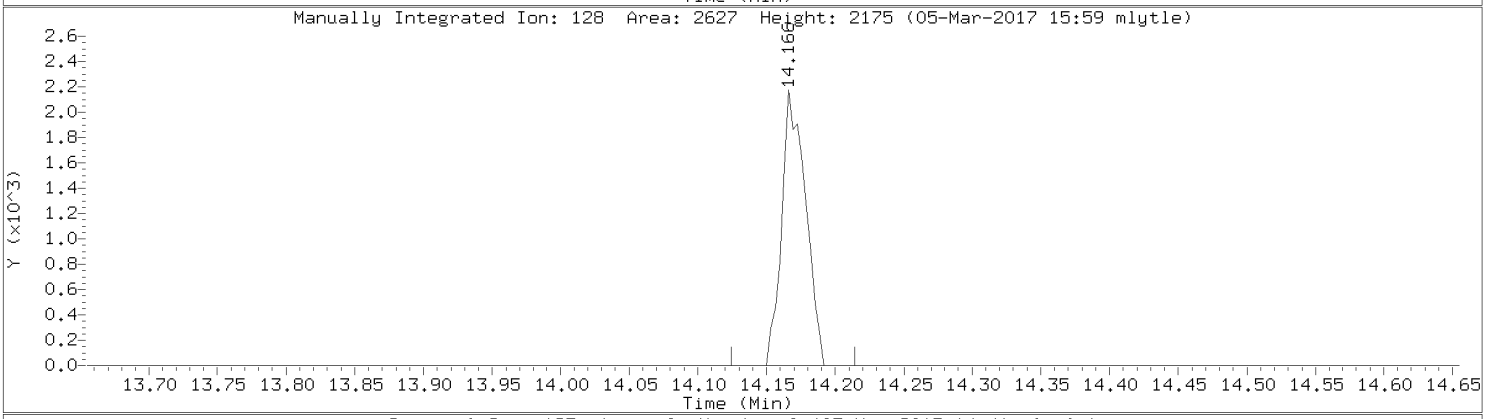


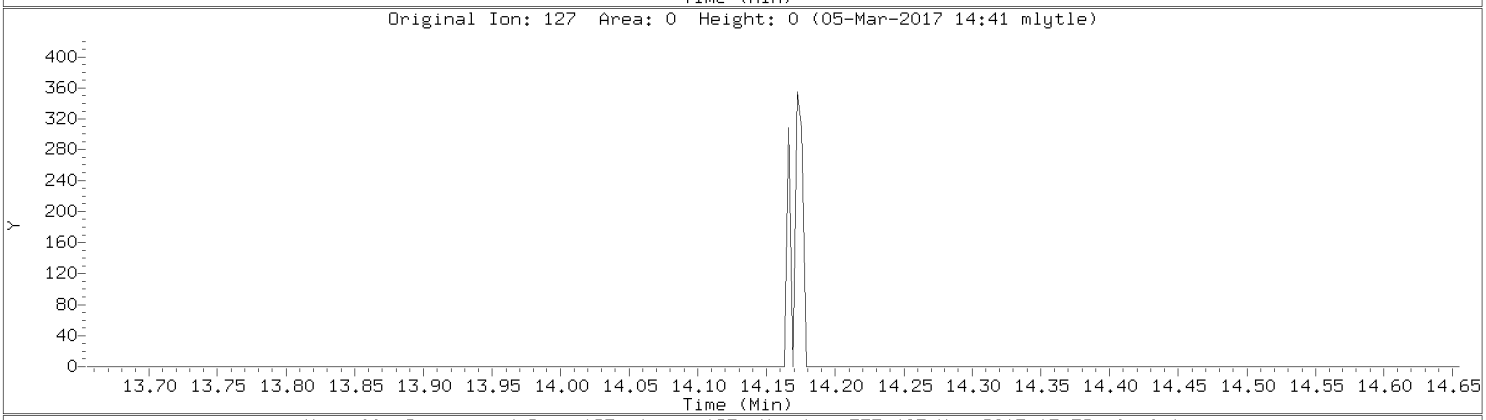


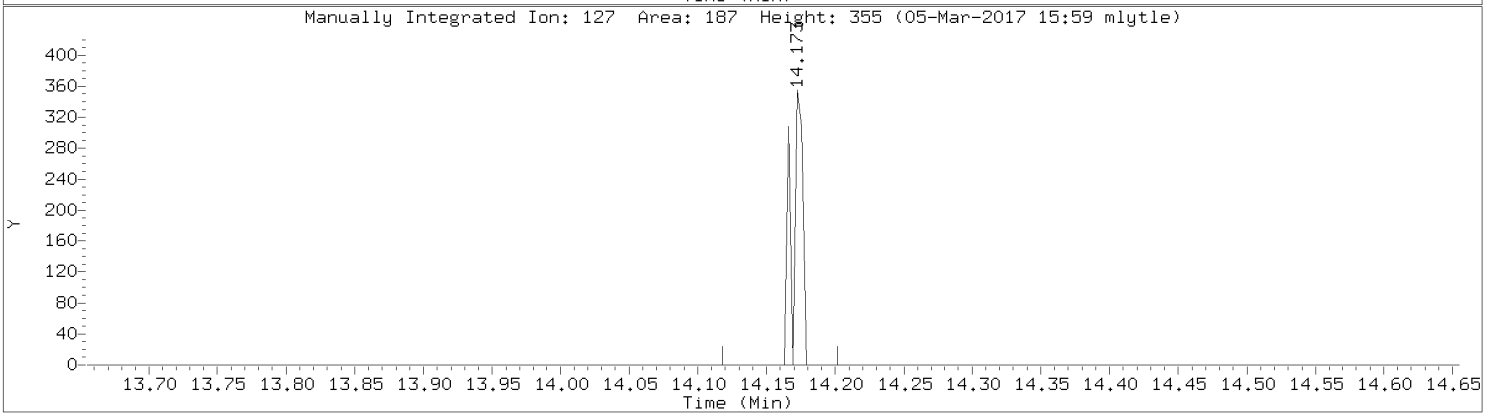
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06334.D
Injection Date: 04-MAR-2017 23:52
Instrument: 10airB.i
Lab Sample ID: 10379458007

Compound: Naphthalene
CAS Number: 91-20-3









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-C1_20170215 **Lab ID: 10379458007** Collected: 02/15/17 16:17 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**86.4**	ug/m3	5.0	0.48	2.01		03/04/17 23:52	67-63-0	
Styrene	**<0.39**	ug/m3	1.7	0.39	2.01		03/04/17 23:52	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	1.4	0.66	2.01		03/04/17 23:52	79-34-5	
Tetrachloroethene	**1.3J**	ug/m3	1.4	0.56	2.01		03/04/17 23:52	127-18-4	
Toluene	**3.2**	ug/m3	1.5	0.31	2.01		03/04/17 23:52	108-88-3	
1,2,4-Trichlorobenzene	**<1.8**	ug/m3	7.6	1.8	2.01		03/04/17 23:52	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	2.2	0.50	2.01		03/04/17 23:52	71-55-6	
1,1,2-Trichloroethane	**<0.49**	ug/m3	1.1	0.49	2.01		03/04/17 23:52	79-00-5	
Trichloroethene	**<0.55**	ug/m3	1.1	0.55	2.01		03/04/17 23:52	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.3	0.27	2.01		03/04/17 23:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.61**	ug/m3	3.2	0.61	2.01		03/04/17 23:52	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	2.0	0.25	2.01		03/04/17 23:52	95-63-6	
1,3,5-Trimethylbenzene	**<0.37**	ug/m3	2.0	0.37	2.01		03/04/17 23:52	108-67-8	
Vinyl chloride	**<0.39**	ug/m3	0.52	0.39	2.01		03/04/17 23:52	75-01-4	
m&p-Xylene	**2.6J**	ug/m3	3.6	1.6	2.01		03/04/17 23:52	179601-23-1	
o-Xylene	**<0.71**	ug/m3	1.8	0.71	2.01		03/04/17 23:52	95-47-6	

Sample: IA-C20_20170215 **Lab ID: 10379458008** Collected: 02/15/17 16:35 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**32.4**	ug/m3	4.6	1.6	1.92		03/05/17 00:23	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 00:23	107-05-1	
Benzene	**1.5**	ug/m3	0.62	0.23	1.92		03/05/17 00:23	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 00:23	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 00:23	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 00:23	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 00:23	106-99-0	
2-Butanone (MEK)	**2.6J**	ug/m3	5.8	0.44	1.92		03/05/17 00:23	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 00:23	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/05/17 00:23	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 00:23	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/05/17 00:23	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 00:23	75-00-3	
Chloroform	**3.9**	ug/m3	0.95	0.36	1.92		03/05/17 00:23	67-66-3	
Chloromethane	**1.1**	ug/m3	0.81	0.21	1.92		03/05/17 00:23	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 00:23	76-15-3	
Cyclohexane	**0.71J**	ug/m3	1.3	0.61	1.92		03/05/17 00:23	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 00:23	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 00:23	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 00:23	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 00:23	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 00:23	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-C20_20170215 **Lab ID: 10379458008** Collected: 02/15/17 16:35 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 00:23	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.9	0.92	1.92		03/05/17 00:23	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 00:23	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 00:23	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 00:23	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/05/17 00:23	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/05/17 00:23	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 00:23	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 00:23	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 00:23	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 00:23	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 00:23	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 00:23	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/05/17 00:23	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.9	0.36	1.92		03/05/17 00:23	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/05/17 00:23	87-68-3	
n-Hexane	**1.4**	ug/m3	1.4	0.69	1.92		03/05/17 00:23	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 00:23	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 00:23	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 00:23	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 00:23	108-87-2	
Methylene Chloride	**3.3J**	ug/m3	6.8	1.0	1.92		03/05/17 00:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 00:23	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/05/17 00:23	1634-04-4	
2-Propanol	**93.6**	ug/m3	4.8	0.46	1.92		03/05/17 00:23	67-63-0	
Styrene	**0.84J**	ug/m3	1.7	0.37	1.92		03/05/17 00:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 00:23	79-34-5	
Tetrachloroethene	**1.3J**	ug/m3	1.3	0.53	1.92		03/05/17 00:23	127-18-4	
Toluene	**3.2**	ug/m3	1.5	0.30	1.92		03/05/17 00:23	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/05/17 00:23	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/05/17 00:23	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/05/17 00:23	79-00-5	
Trichloroethene	**<0.53**	ug/m3	1.1	0.53	1.92		03/05/17 00:23	79-01-6	
Trichlorofluoromethane	**1.1J**	ug/m3	2.2	0.25	1.92		03/05/17 00:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/05/17 00:23	76-13-1	
1,2,4-Trimethylbenzene	**0.98J**	ug/m3	1.9	0.24	1.92		03/05/17 00:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/05/17 00:23	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 00:23	75-01-4	
m&p-Xylene	**2.0J**	ug/m3	3.4	1.5	1.92		03/05/17 00:23	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/05/17 00:23	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D
Report Date: 05-Mar-2017 16:02

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06335.D
Lab Smp Id: 10379458008
Inj Date : 05-MAR-2017 00:23
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 35
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.983	3.018	(0.533)	13062	1.67492	3.22(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.034	3.060	(0.542)	10915	0.21180	0.407	
6	Chloromethane	50	3.124	3.156	(0.558)	4124	0.26983	0.518	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.561	3.545	(0.636)	1834576	375.347	721(A)	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.642	3.674	(0.650)	3753	0.10291	0.198	
17	Acrolein	56	3.661	3.684	(0.654)	803	0.35547	0.683(Q)	
18	Acetone	43	3.706	3.722	(0.662)	147459	6.98668	13.4	
19	Isopropyl Alcohol	45	3.780	3.767	(0.675)	419795	19.5027	37.4	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D
Report Date: 05-Mar-2017 16:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.983	4.005	(0.711)	7322	0.49152	0.944	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.800)	408140	9.64394	9.64	
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.813)	2391	0.45030	0.865(Q)	
	34 n-Hexane	57	4.574	4.584	(0.817)	4343	0.20474	0.393(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.713	4.716	(0.842)	9340	0.34212	0.657(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.841	(0.859)	11138	0.40417	0.776	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.449	5.468	(0.973)	10573	0.24646	0.473	
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	5.475	5.487	(0.978)	2258	0.10514	0.202(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1330203	10.0000		
	48 2,2,4-Trimethylpentane	57	5.757	5.770	(1.028)	9067	0.13645	0.262	
	49 Heptane	43	5.883	5.893	(1.051)	2651	0.11059	0.212(Q)	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						(D)
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1130301	9.49379	9.49	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.276)	23379	0.43516	0.836	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	2906	0.09742	0.187	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	859087	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.072	9.082	(1.050)	11975	0.24146	0.464	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.503	9.507	(1.100)	1021	0.10102	0.194(Q)	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D
Report Date: 05-Mar-2017 16:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)		
78	4-Ethyltoluene	105	10.902	10.912	(1.262)	1670	0.12219	0.235	(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.							(D)
80	n-Decane	57	11.384	11.378	(2.033)	10916	0.55061	1.06	(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.							
82	1,2,4-Trimethylbenzene	105	11.506	11.513	(1.331)	5236	0.10260	0.197		
83	1,3-Dichlorobenzene	146	Compound Not Detected.							(D)
84	Sec- Butylbenzene	105	Compound Not Detected.							
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.371)	480440	10.1521	10.2		
86	Benzyl Chloride	91	Compound Not Detected.							
87	1,4-Dichlorobenzene	146	Compound Not Detected.							(D)
88	p-Isopropyltoluene	119	Compound Not Detected.							(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.							(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.							
91	N-Butylbenzene	91	Compound Not Detected.							(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.							
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.							
94	Naphthalene	128	14.175	14.156	(1.640)	32034	1.23257	2.37		
95	Hexachlorobutadiene	225	Compound Not Detected.							

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D
Report Date: 05-Mar-2017 16:02

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06335.D
Lab Smp Id: 10379458008
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

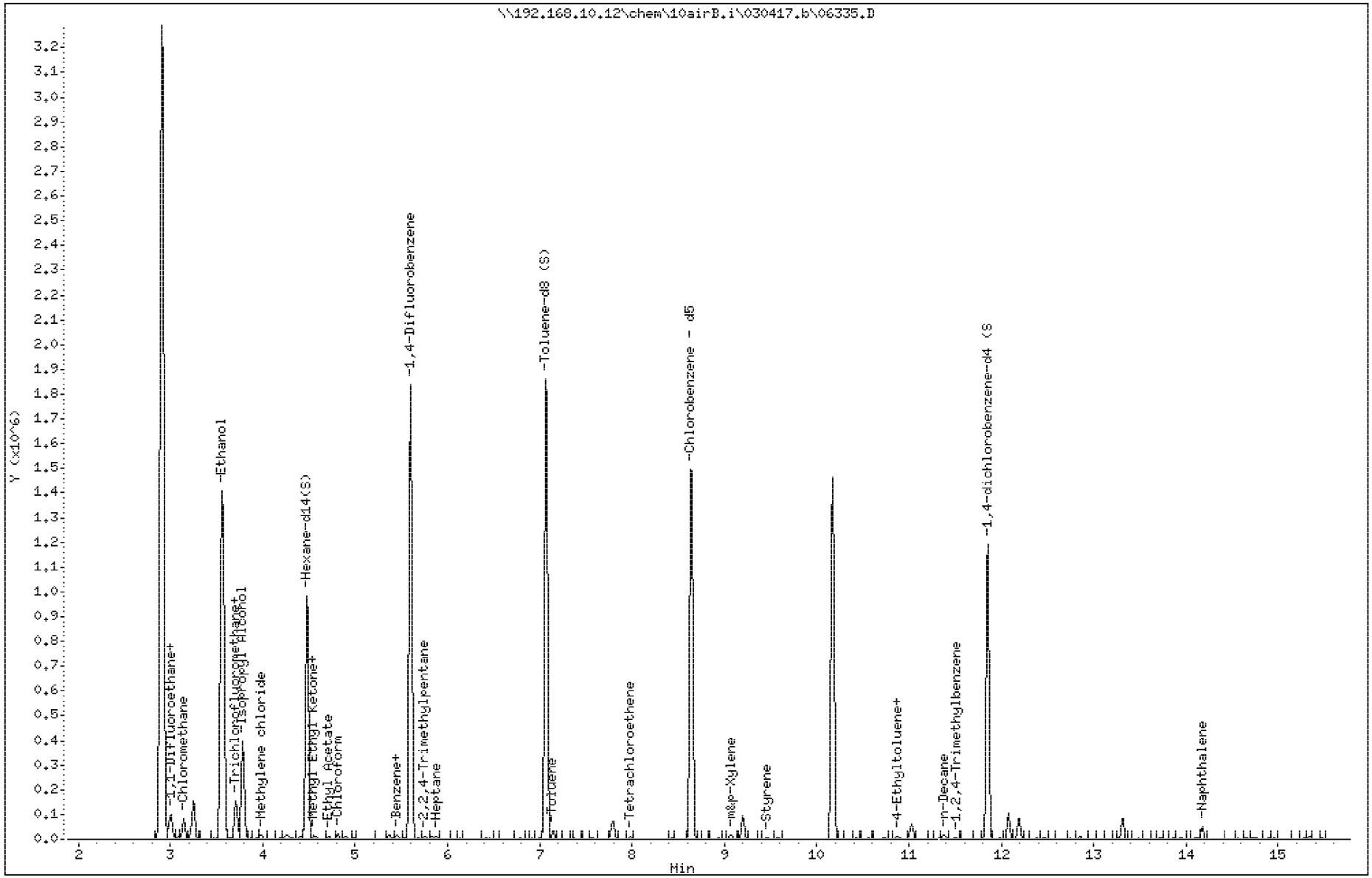
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1330203	-5.93
67 Chlorobenzene - d	951026	570616	1331436	859087	-9.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D
Date : 05-MAR-2017 00:23
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

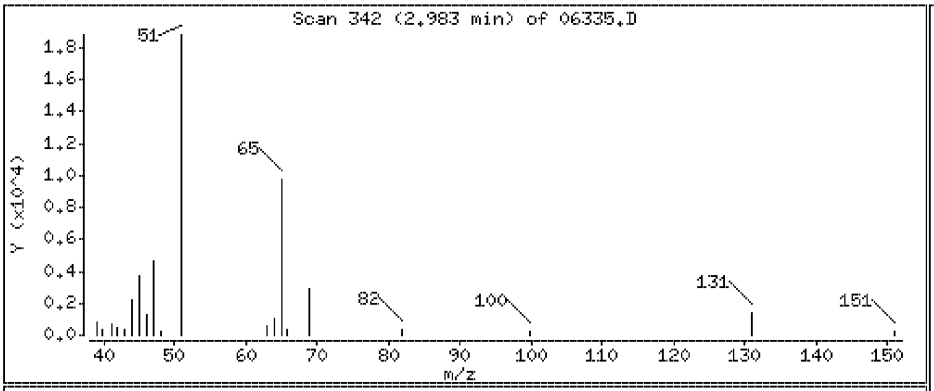
Operator: MJL

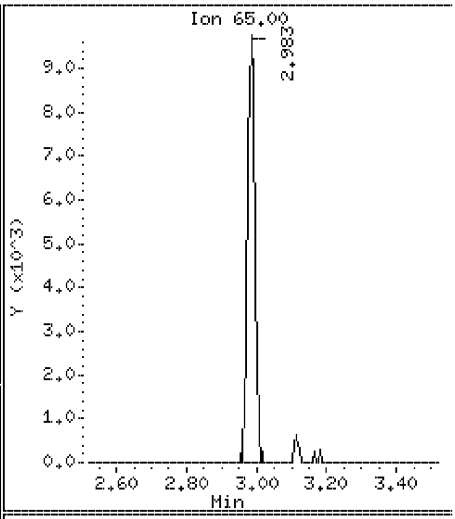
Column phase: J&W DB-5

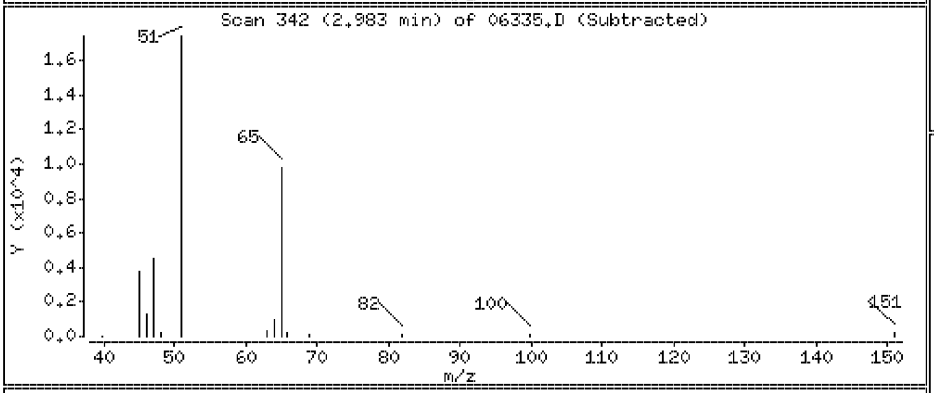
Column diameter: 0.32

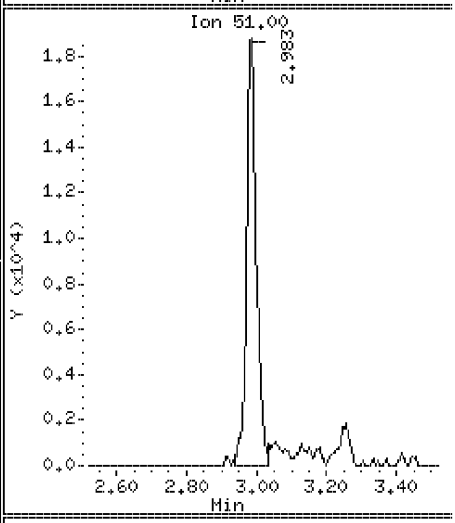
2 1,1-Difluoroethane

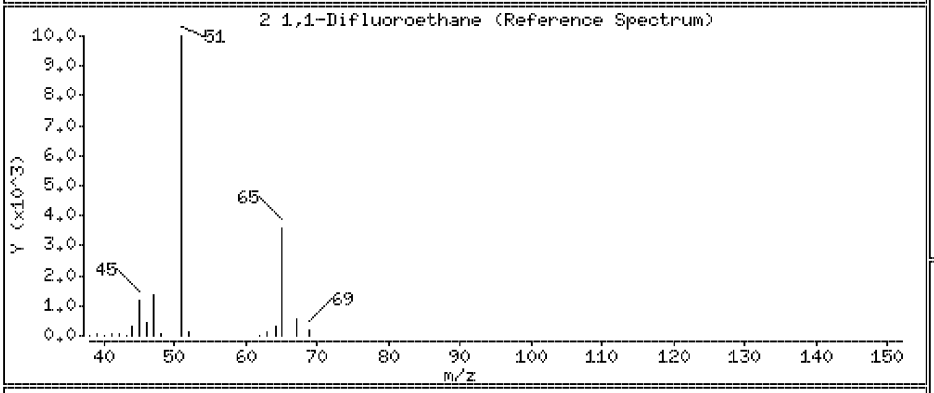
Concentration: 3.22 ppbv

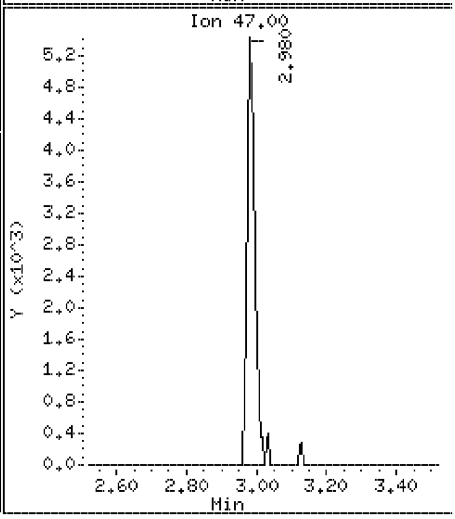


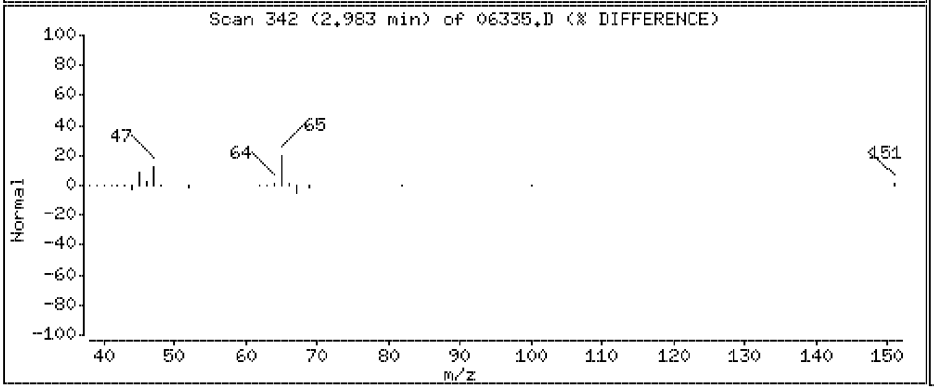












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

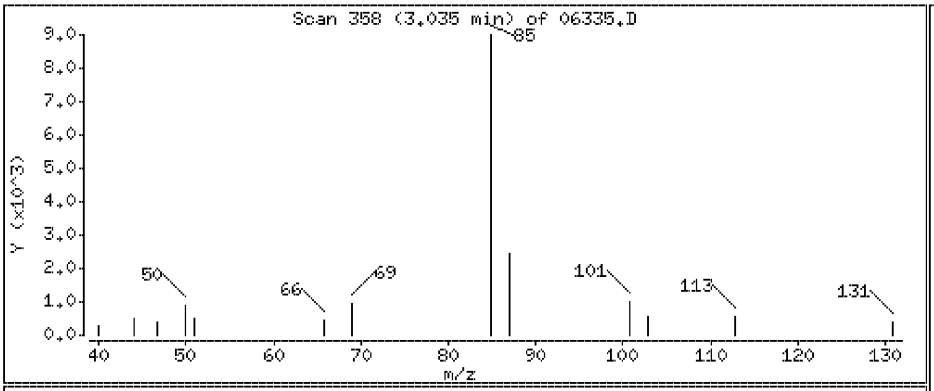
Operator: MJL

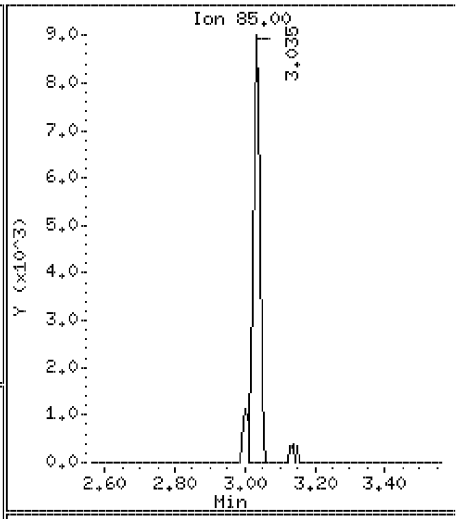
Column phase: J&W DB-5

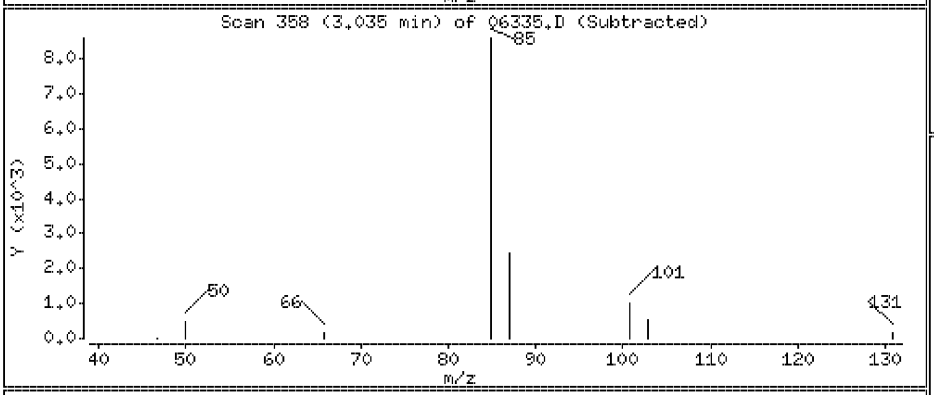
Column diameter: 0.32

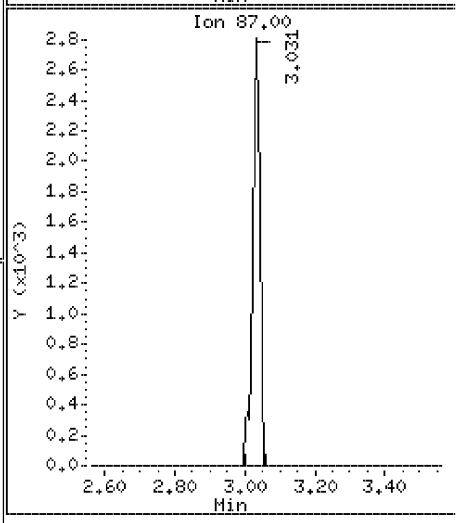
5 Dichlorodifluoromethane

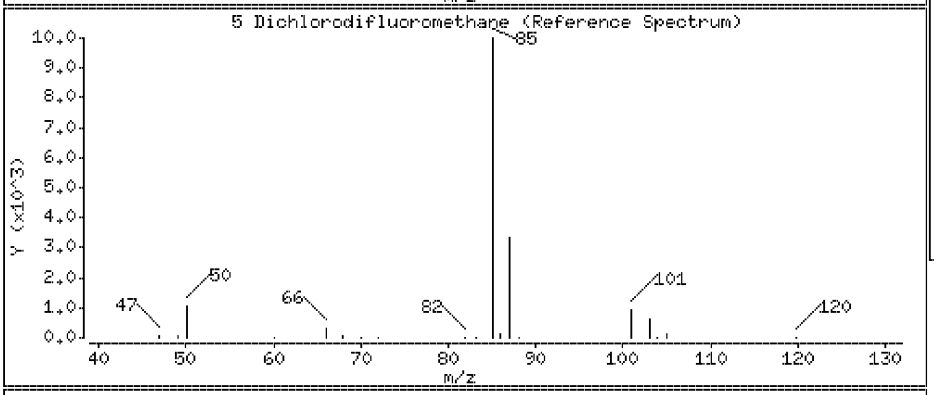
Concentration: 0.407 ppbv

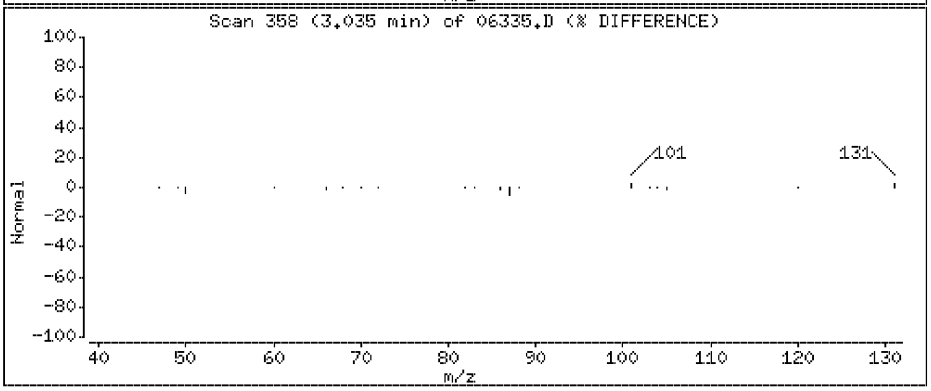












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

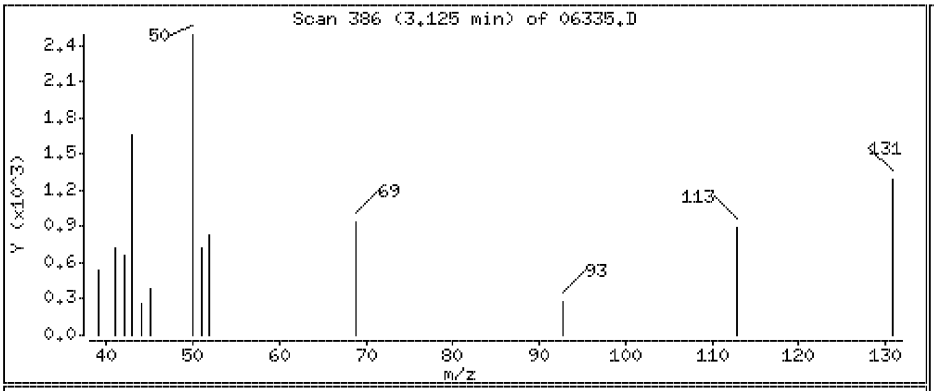
Operator: MJL

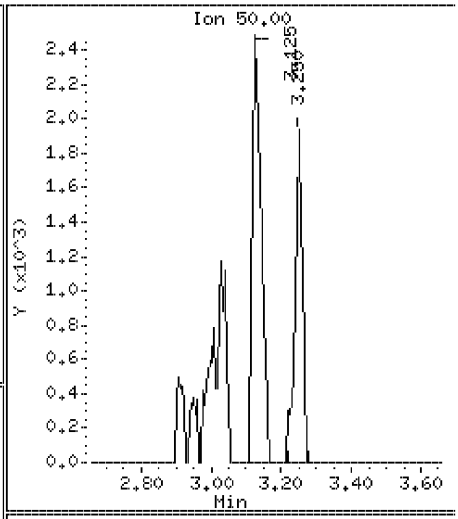
Column phase: J&W DB-5

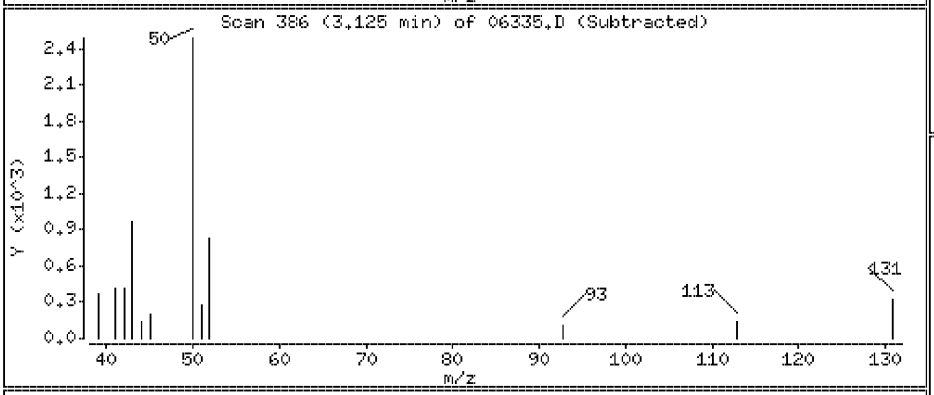
Column diameter: 0.32

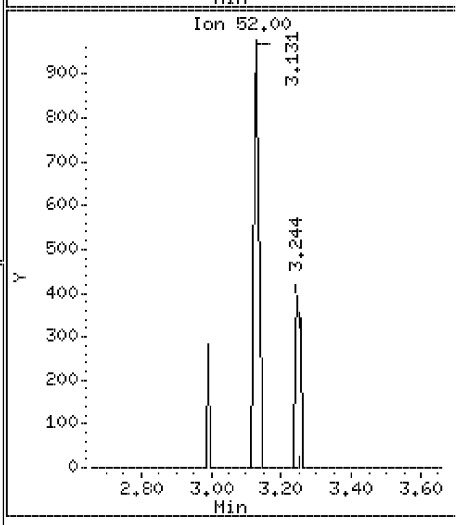
6 Chloromethane

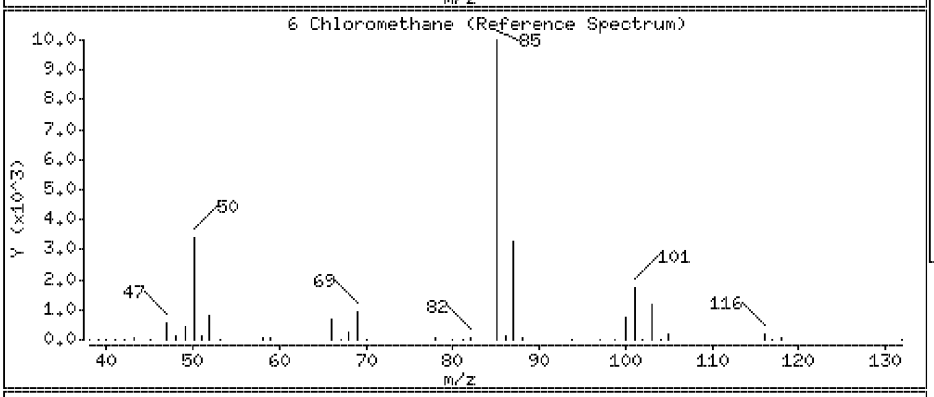
Concentration: 0.518 ppbv

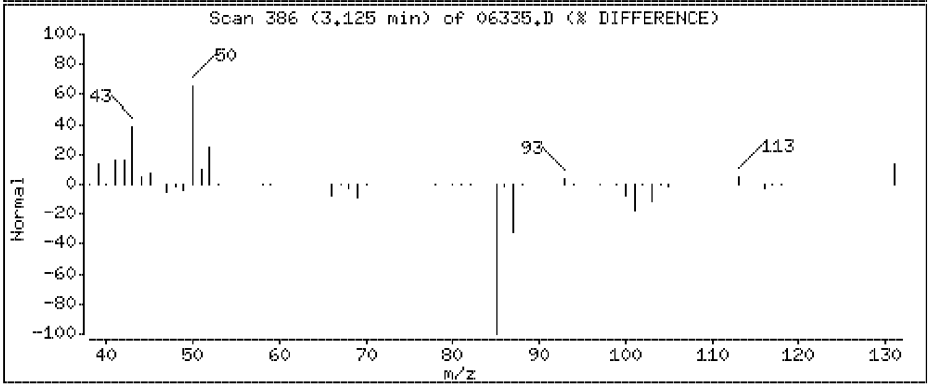












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

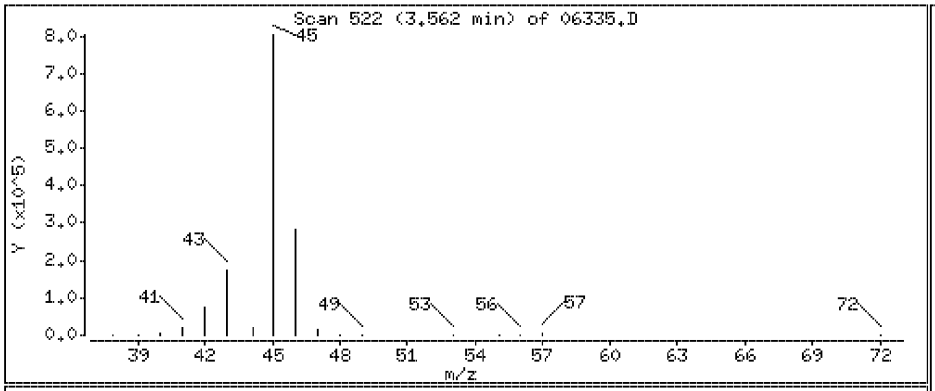
Operator: MJL

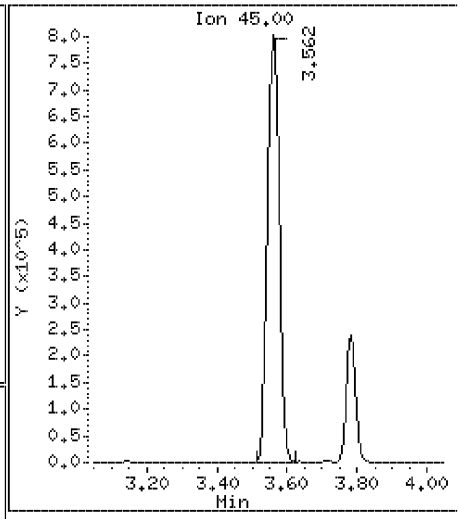
Column phase: J&W DB-5

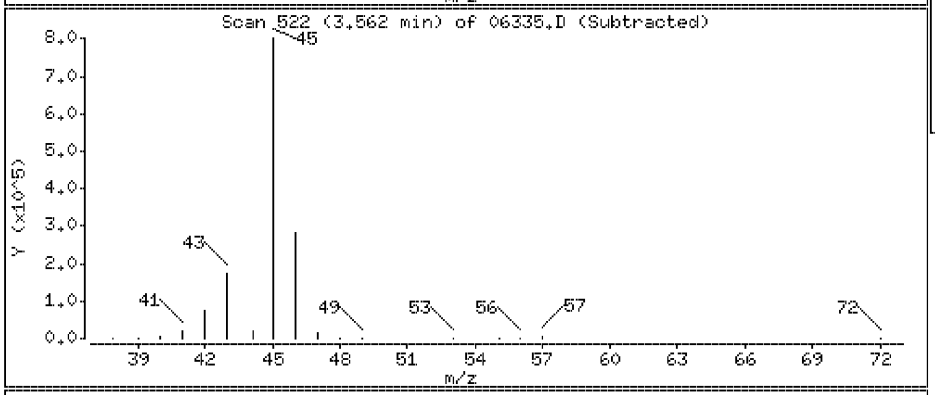
Column diameter: 0.32

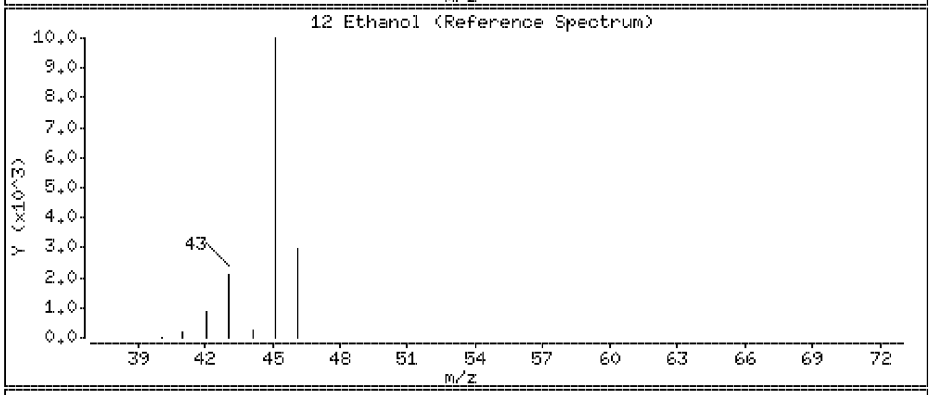
12 Ethanol

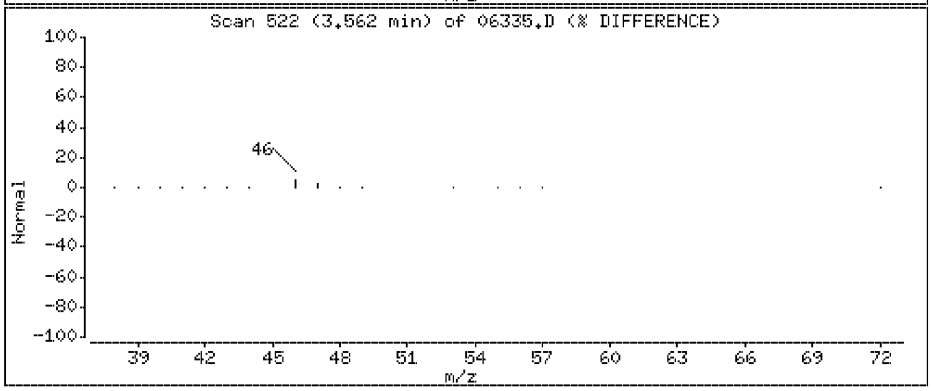
Concentration: 721 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

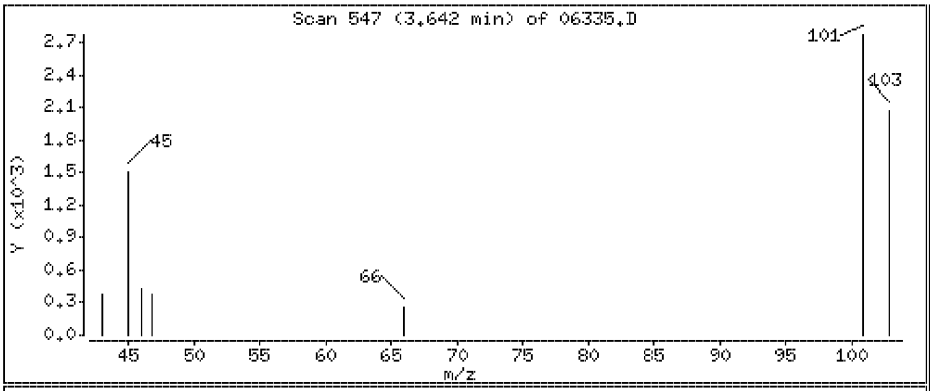
Operator: MJL

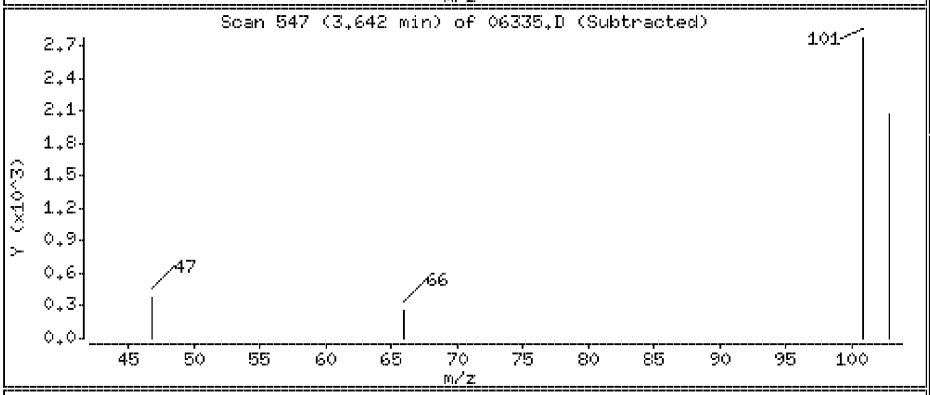
Column phase: J&W DB-5

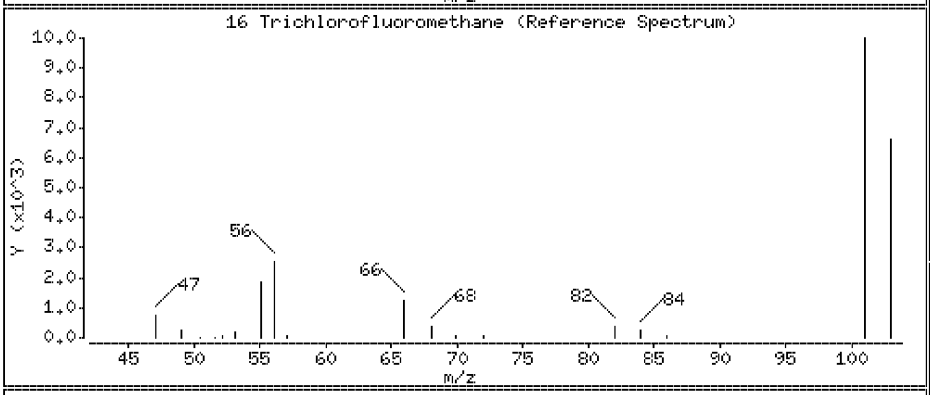
Column diameter: 0.32

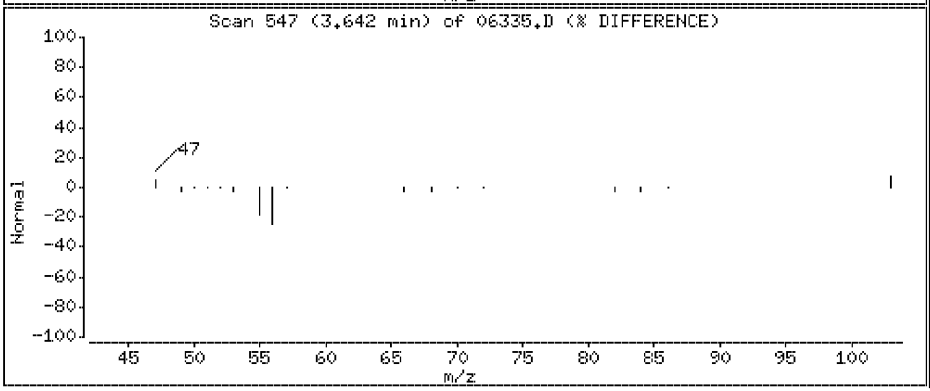
16 Trichlorofluoromethane

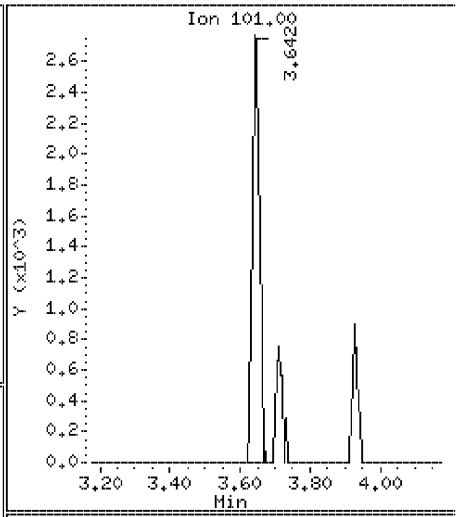
Concentration: 0.198 ppbv

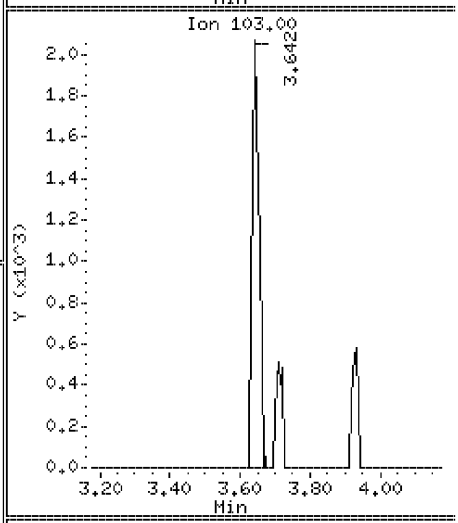


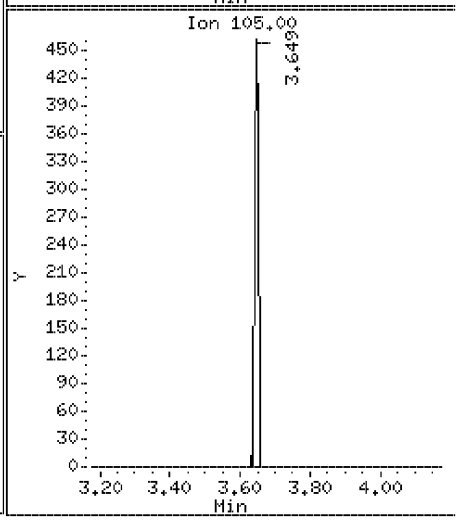












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

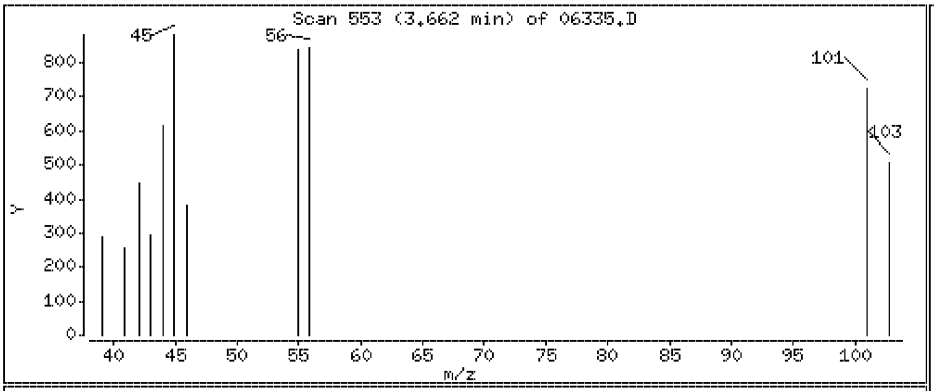
Operator: MJL

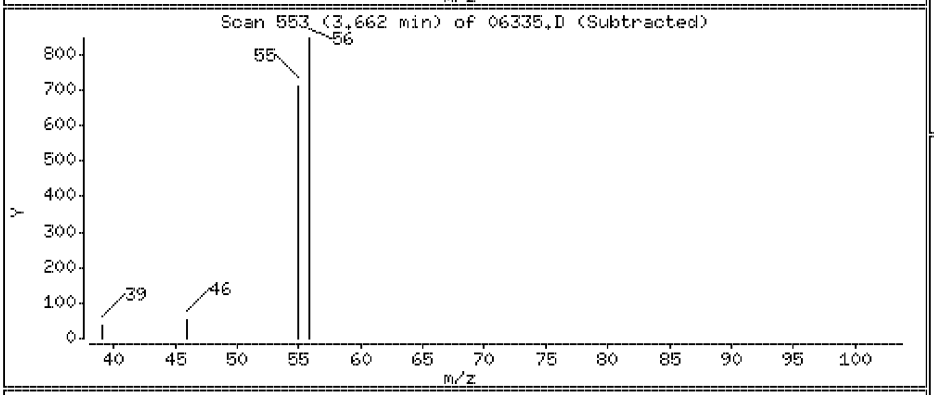
Column phase: J&W DB-5

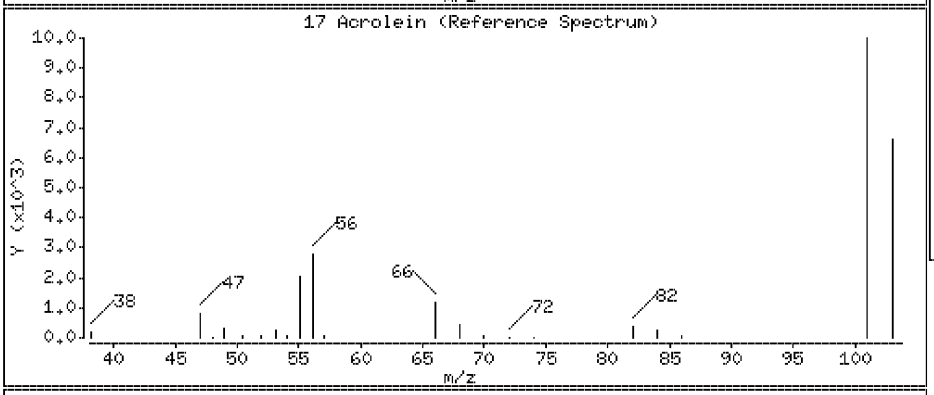
Column diameter: 0.32

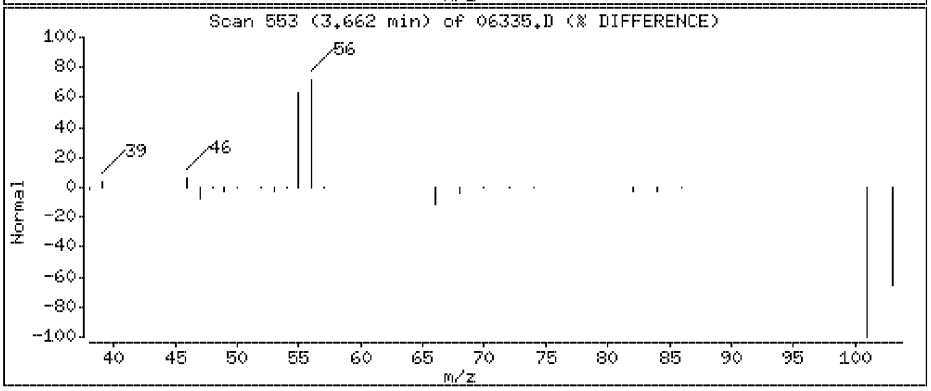
17 Acrolein

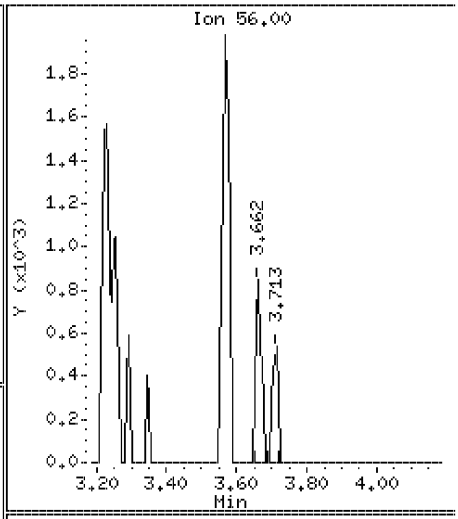
Concentration: 0.683 ppbv

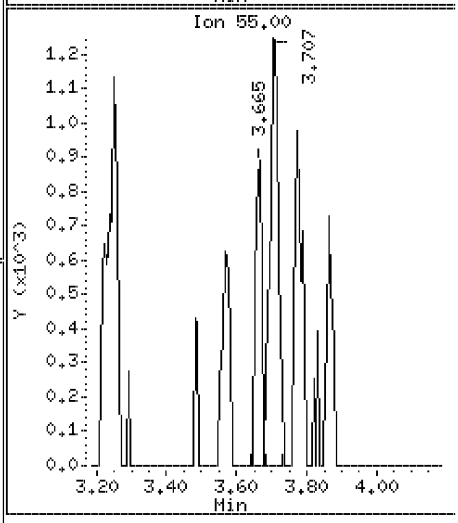












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

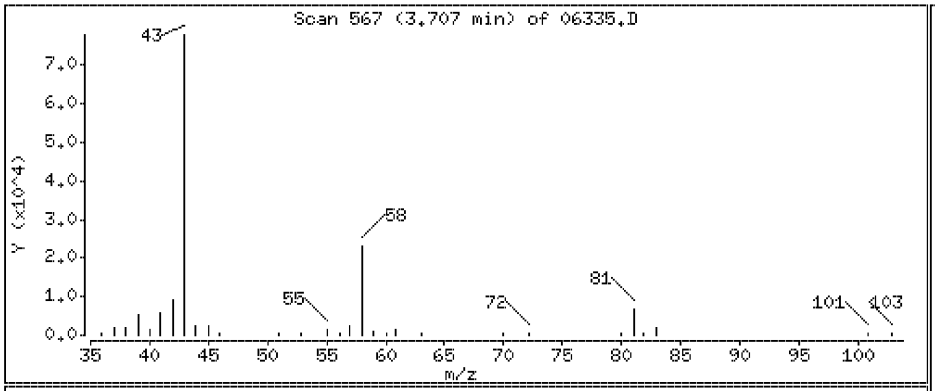
Operator: MJL

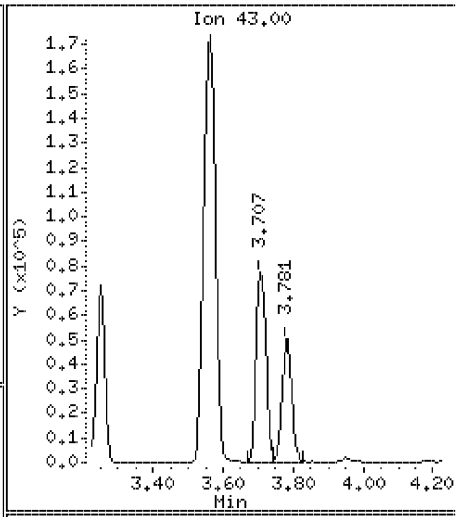
Column phase: J&W DB-5

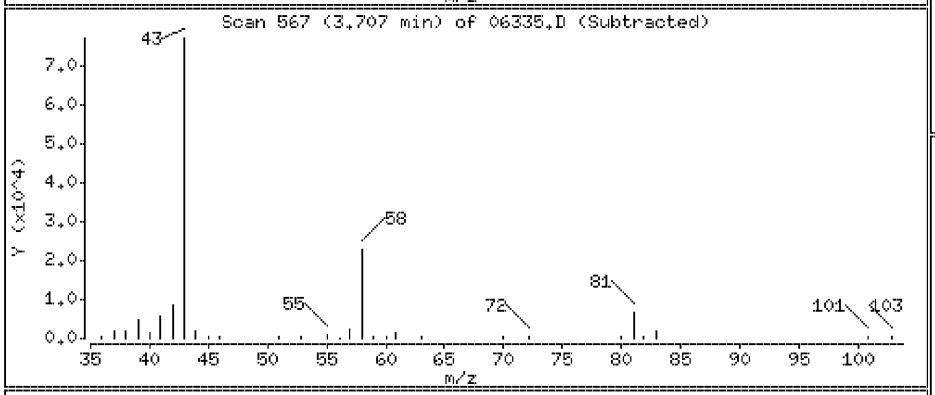
Column diameter: 0.32

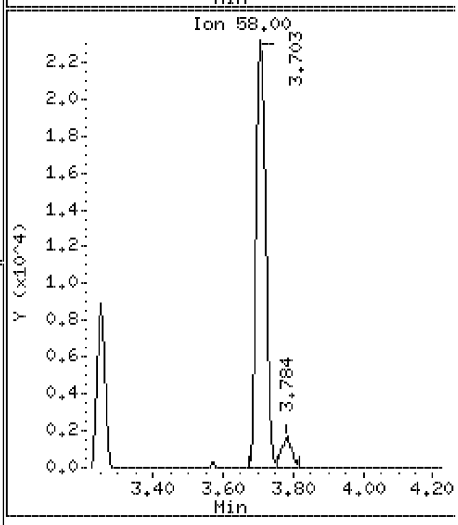
18 Acetone

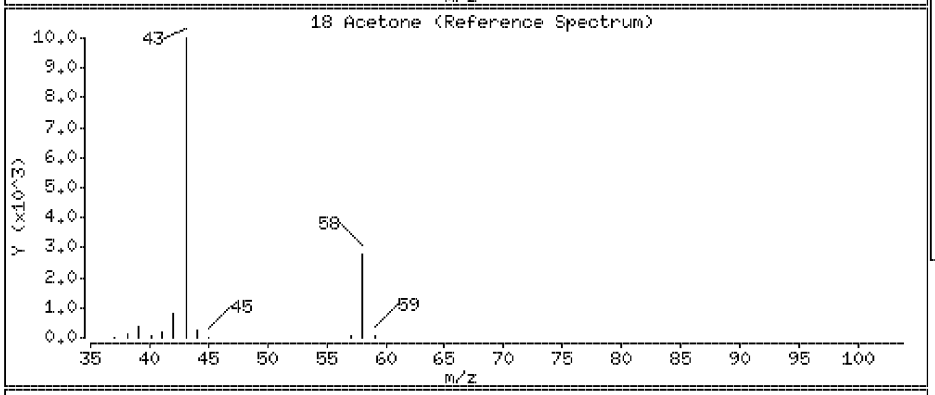
Concentration: 13.4 ppbv

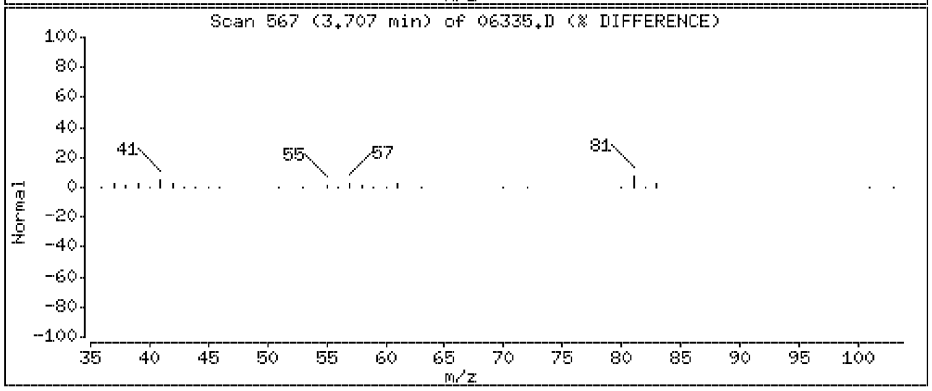












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

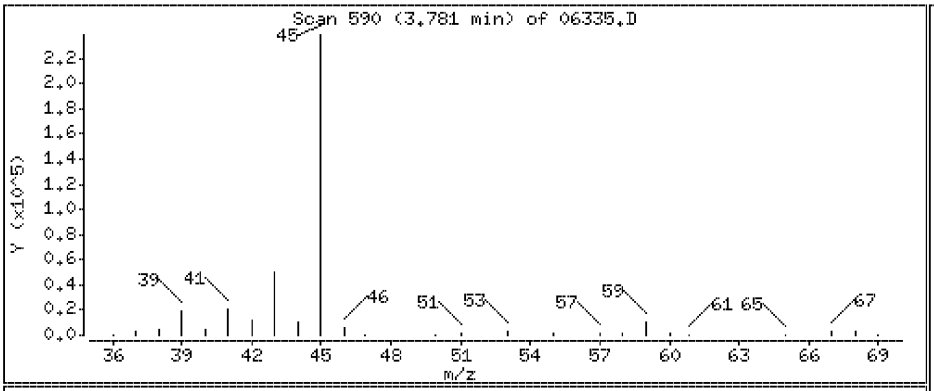
Operator: MJL

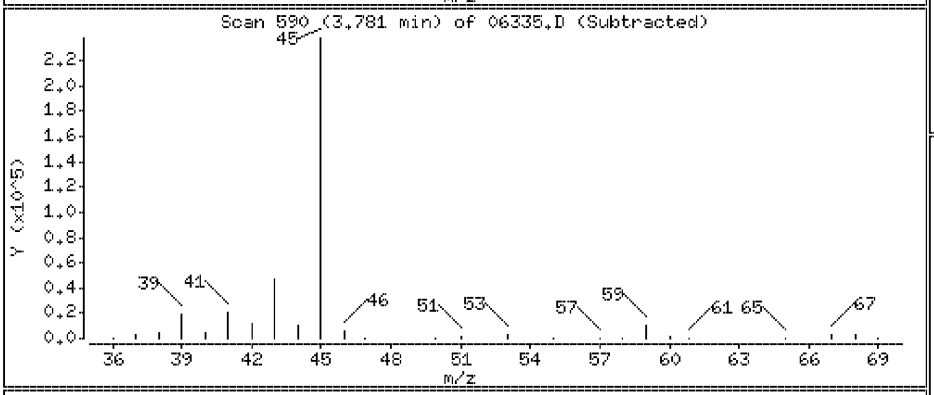
Column phase: J&W DB-5

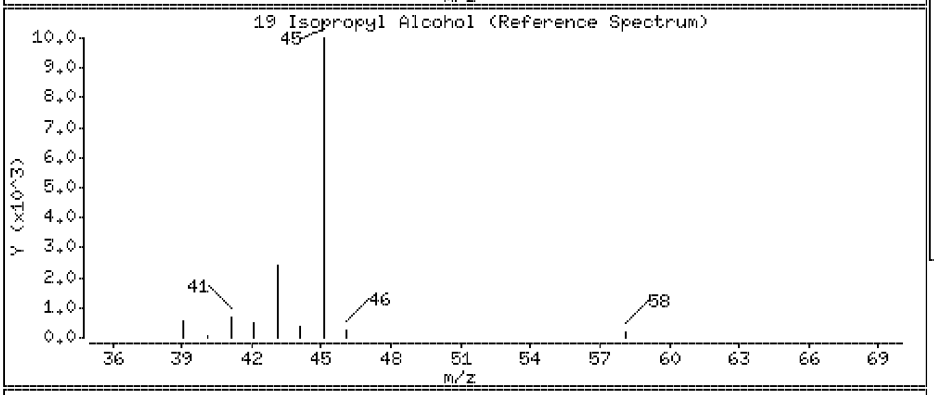
Column diameter: 0.32

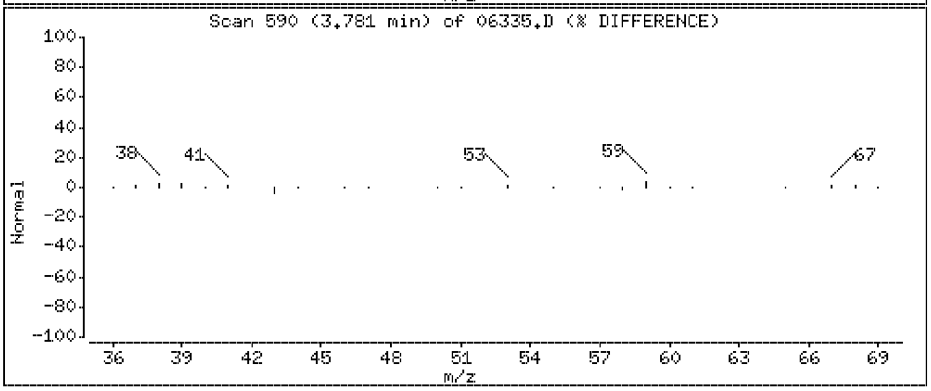
19 Isopropyl Alcohol

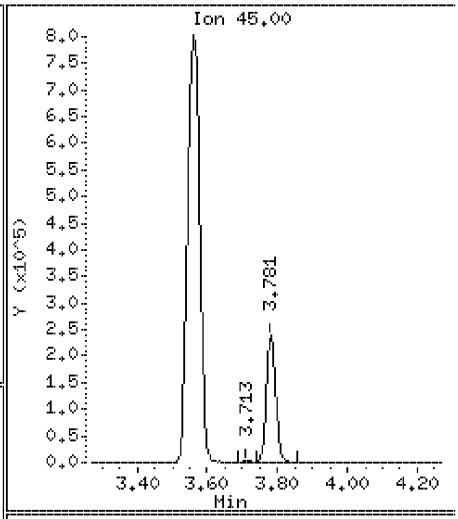
Concentration: 37.4 ppbv

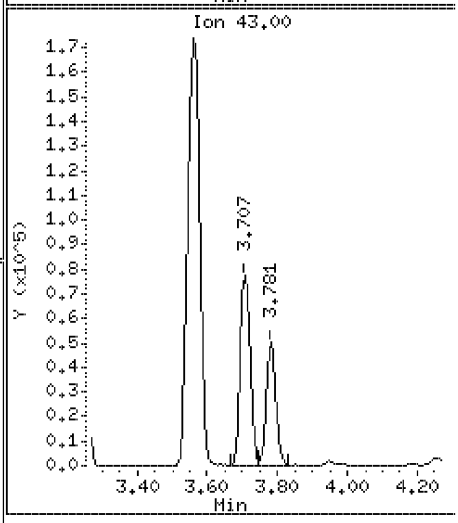












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

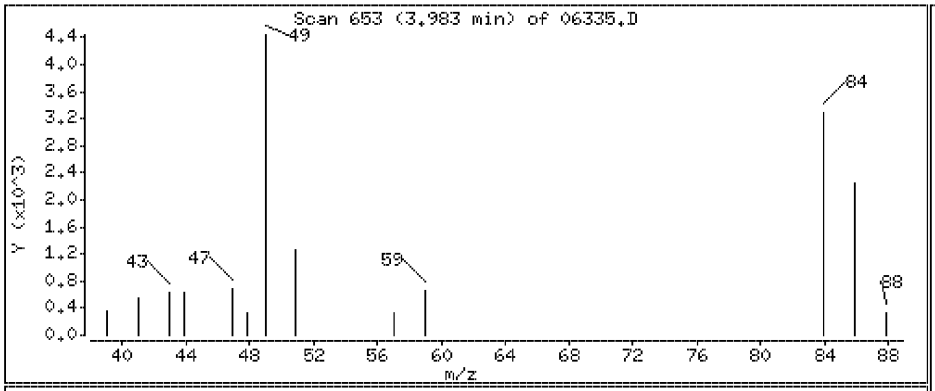
Operator: MJL

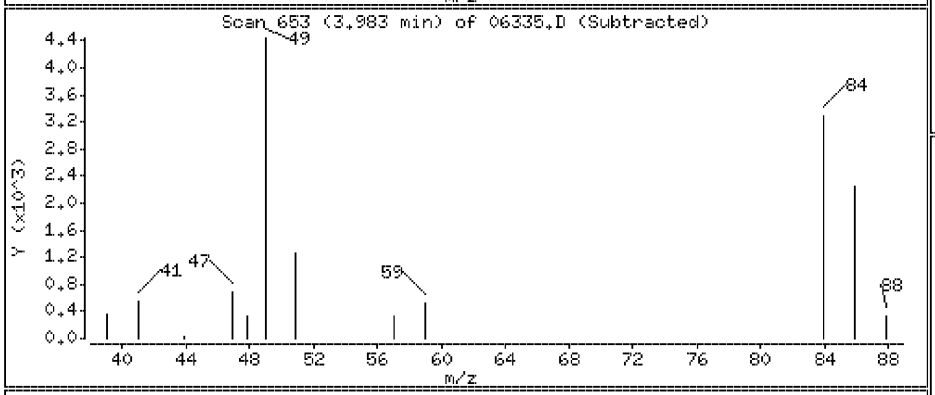
Column phase: J&W DB-5

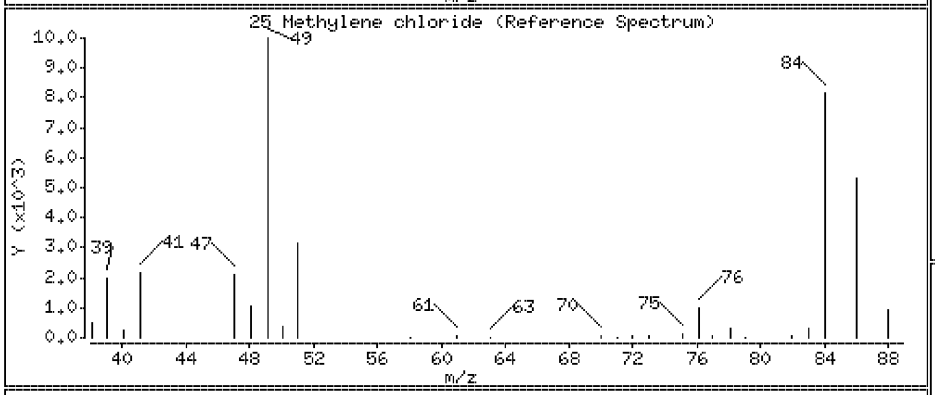
Column diameter: 0.32

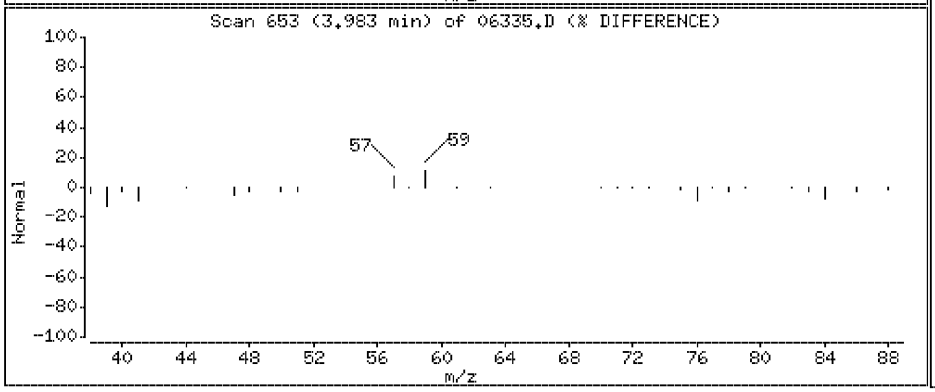
25 Methylene chloride

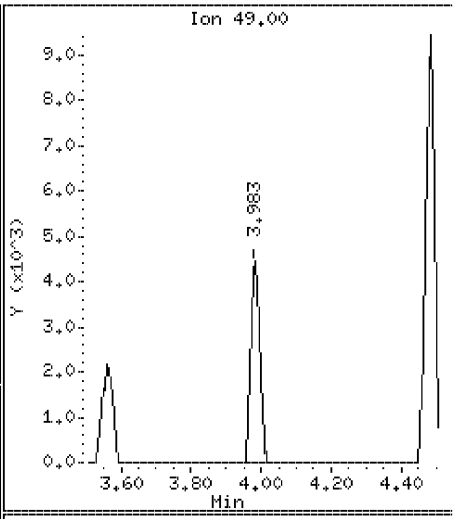
Concentration: 0.944 ppbv

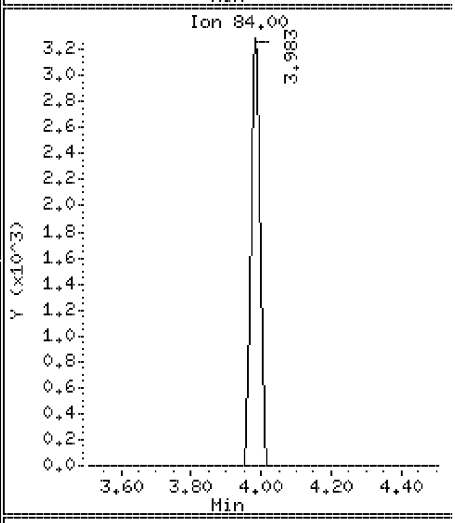


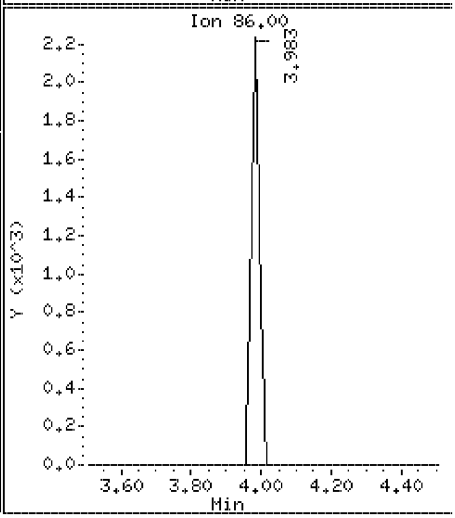












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

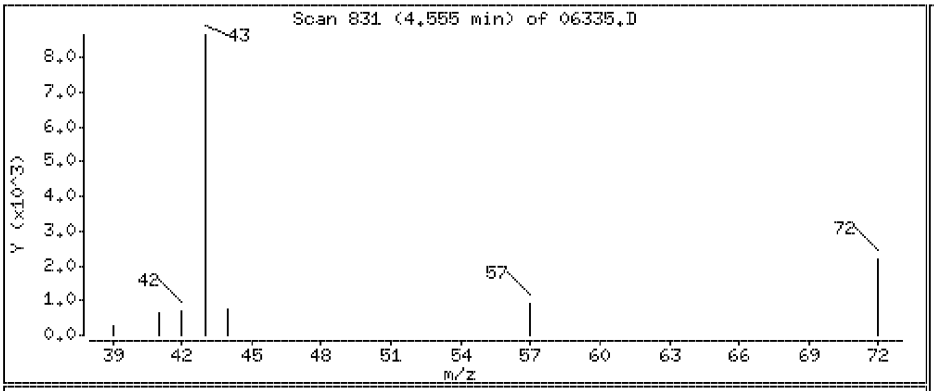
Operator: MJL

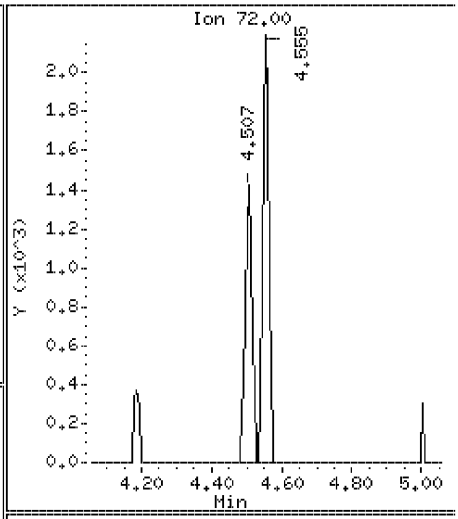
Column phase: J&W DB-5

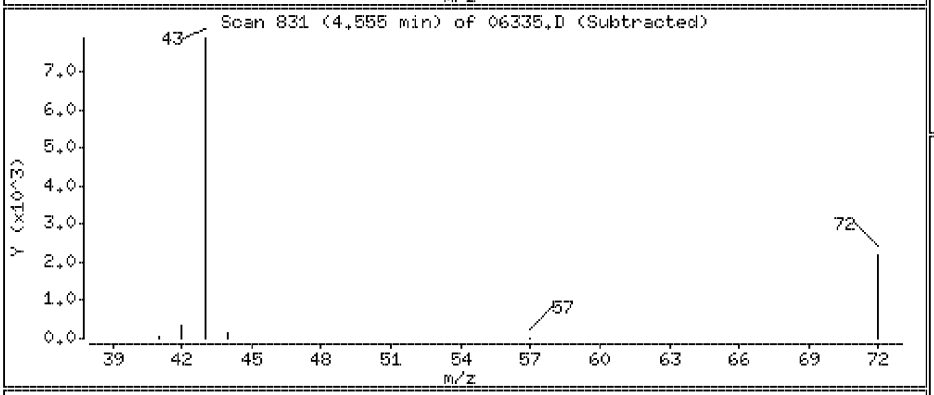
Column diameter: 0.32

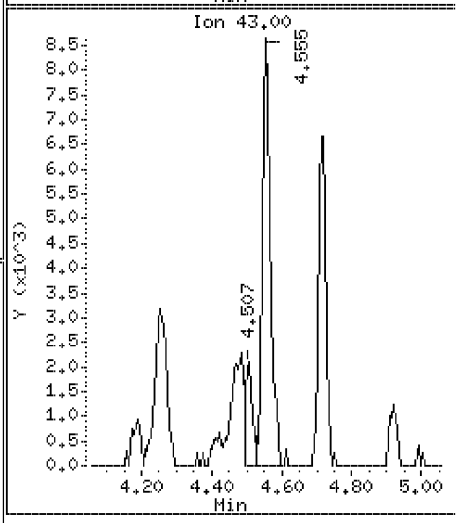
33 Methyl Ethyl Ketone

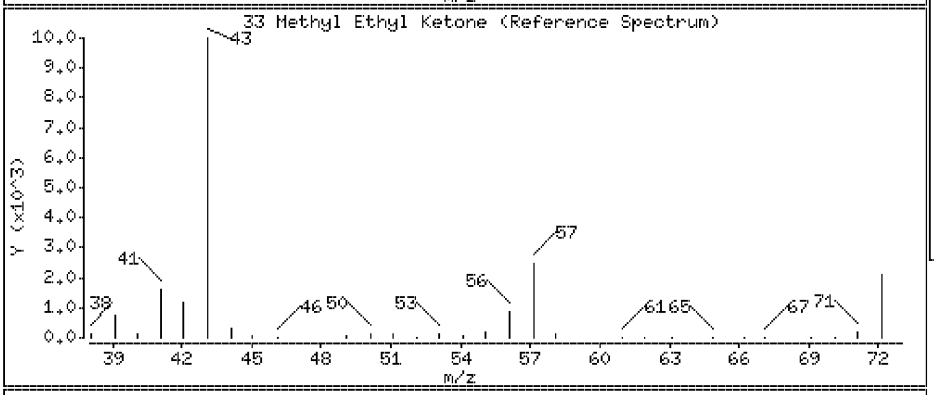
Concentration: 0.865 ppbv

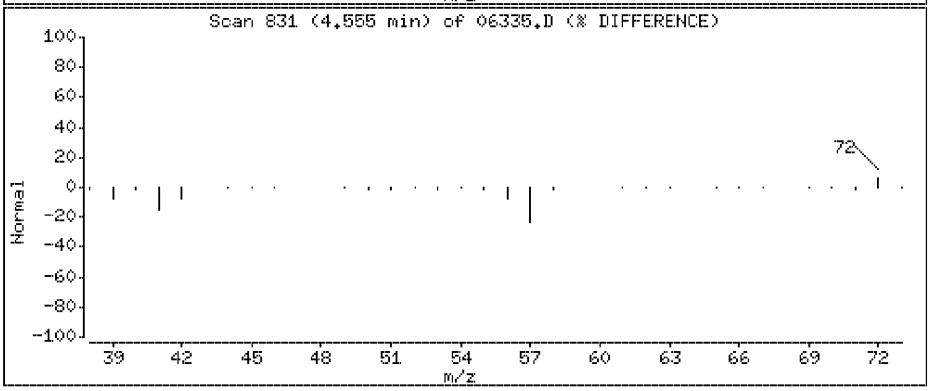












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

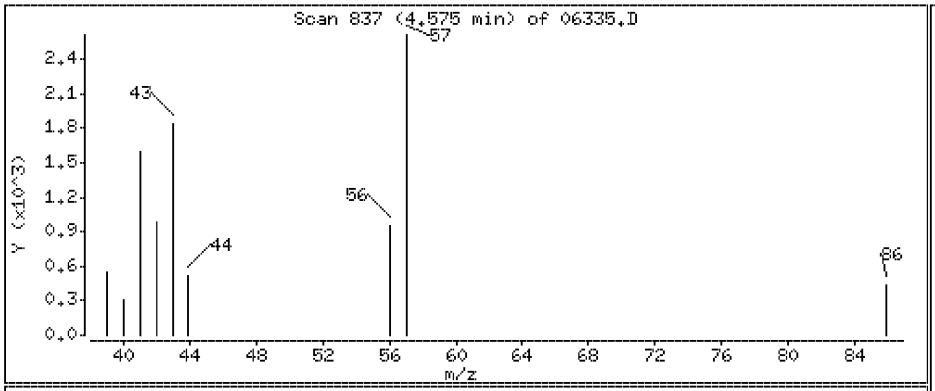
Operator: MJL

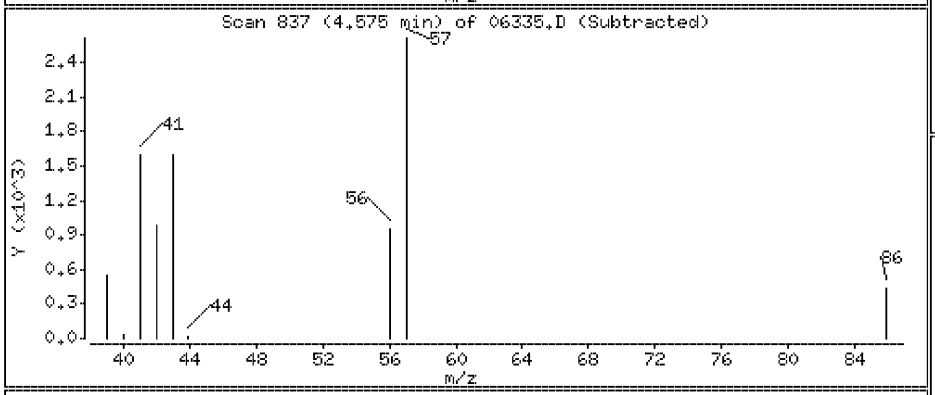
Column phase: J&W DB-5

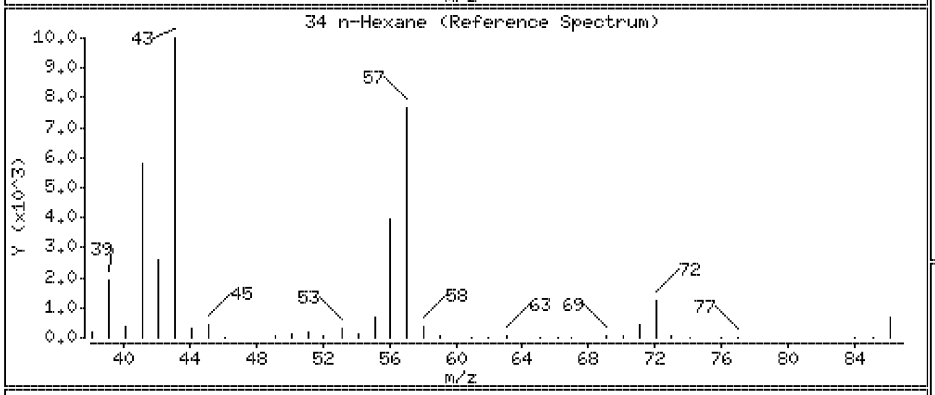
Column diameter: 0.32

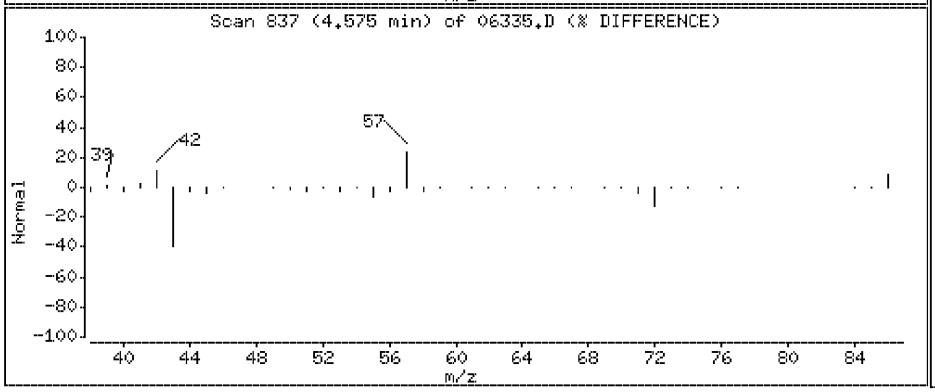
34 n-Hexane

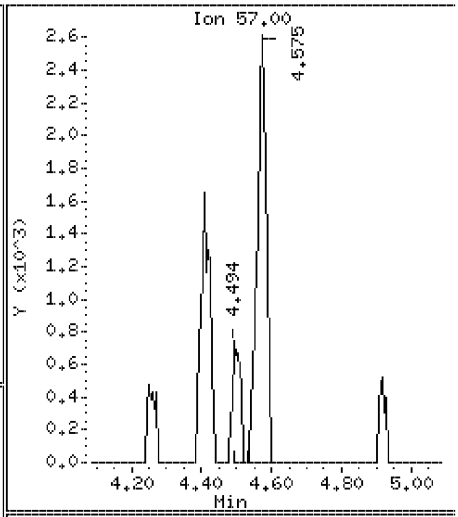
Concentration: 0.393 ppbv

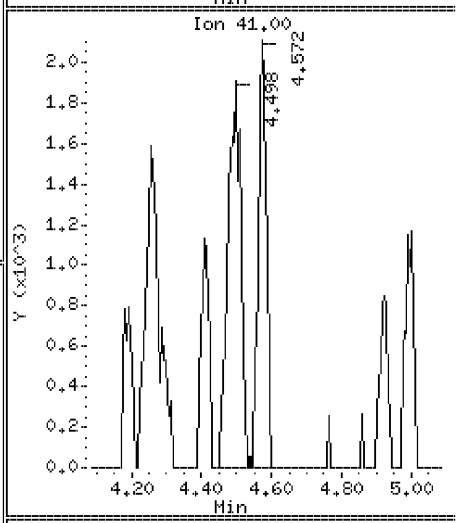


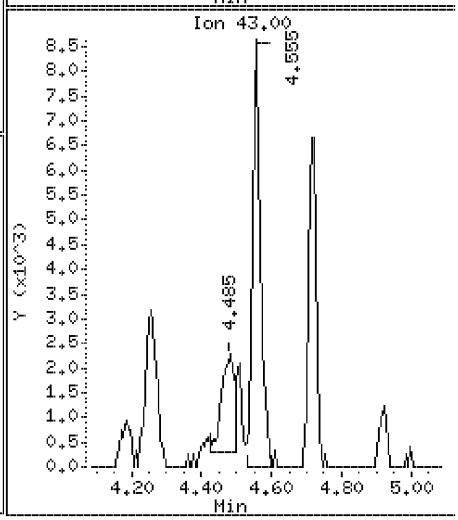












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

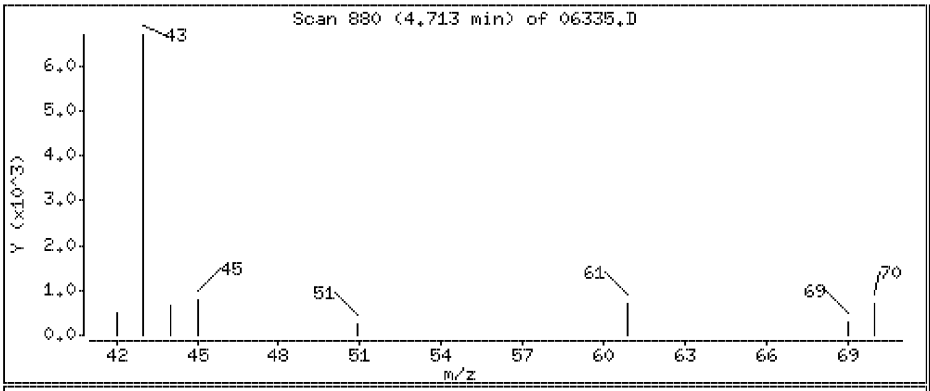
Operator: MJL

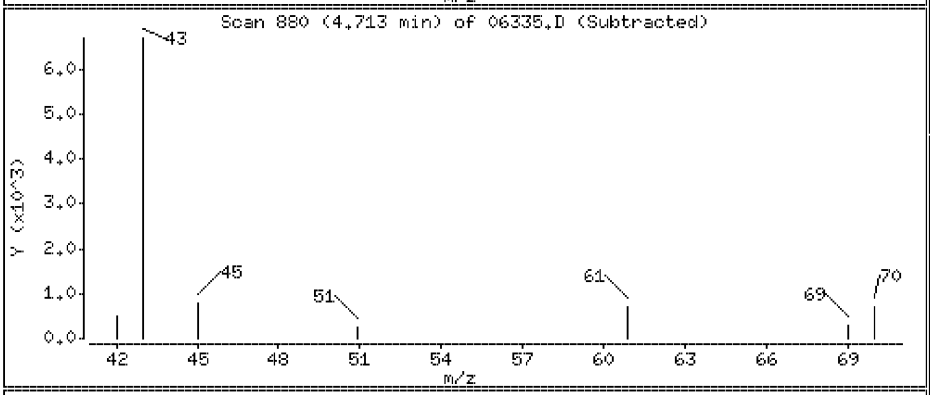
Column phase: J&W DB-5

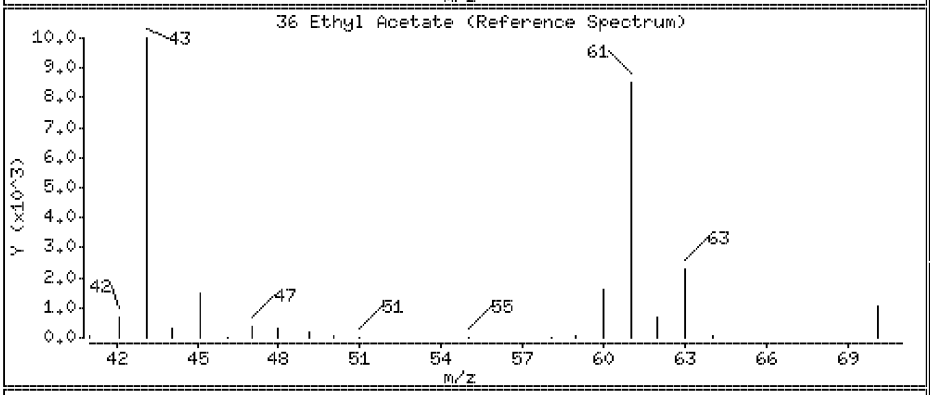
Column diameter: 0.32

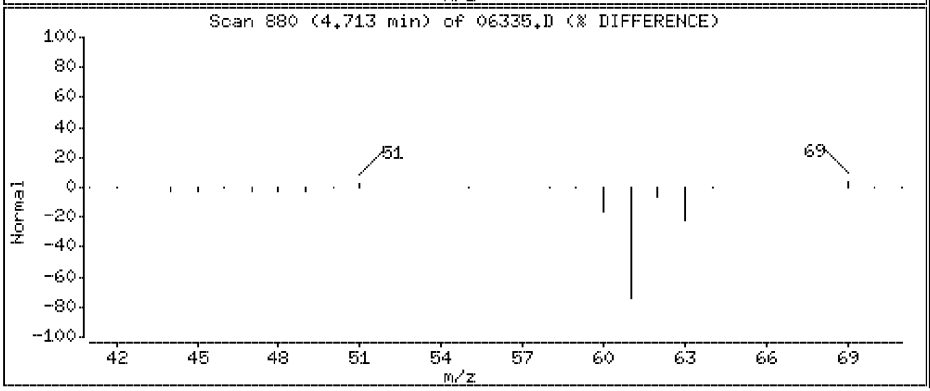
36 Ethyl Acetate

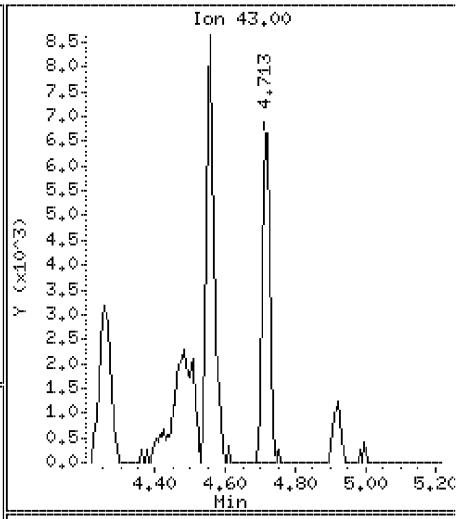
Concentration: 0.657 ppbv

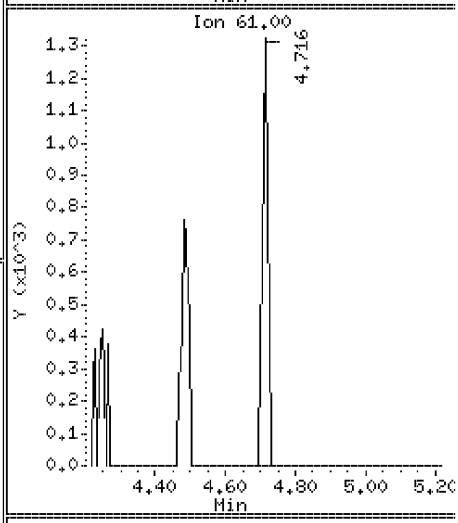


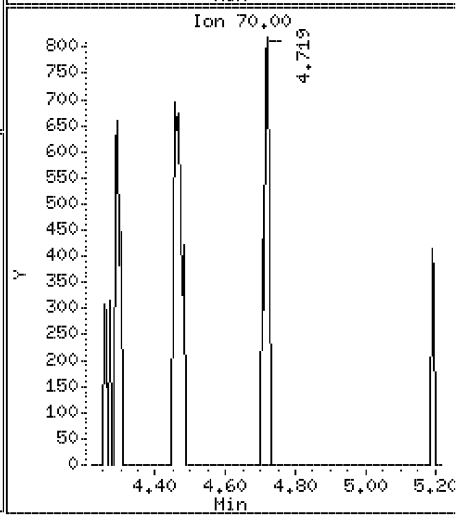












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

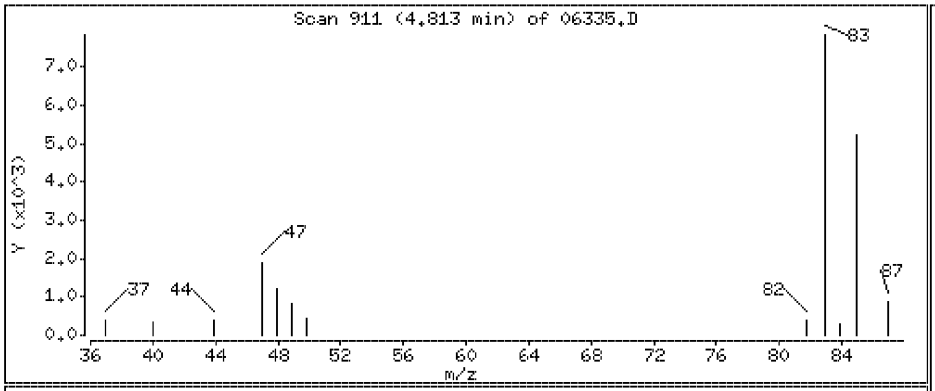
Operator: MJL

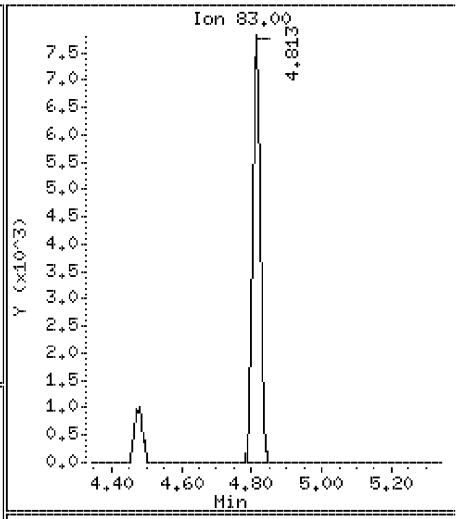
Column phase: J&W DB-5

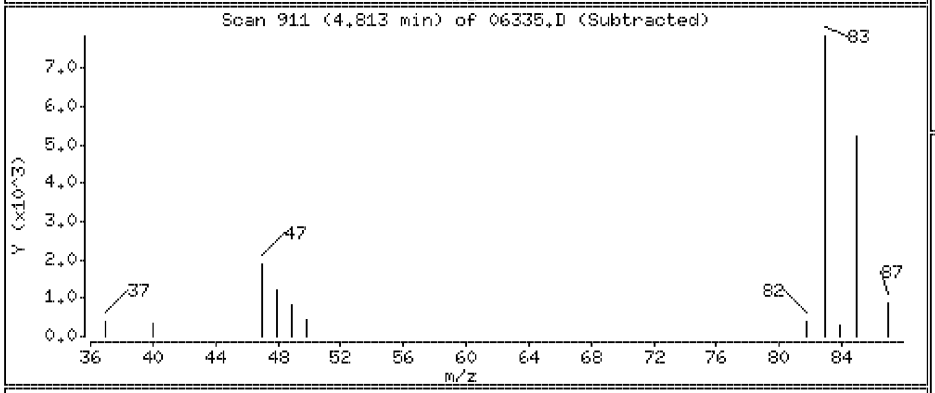
Column diameter: 0.32

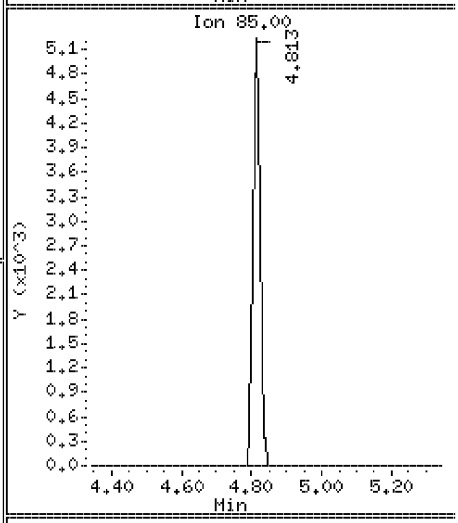
39 Chloroform

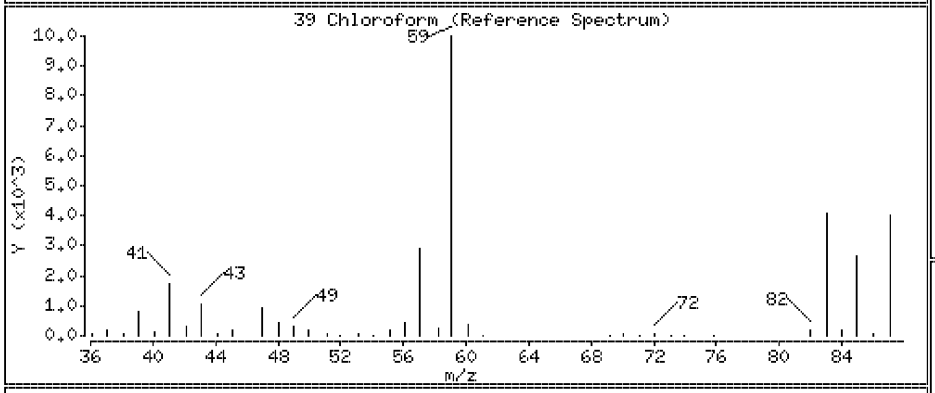
Concentration: 0.776 ppbv

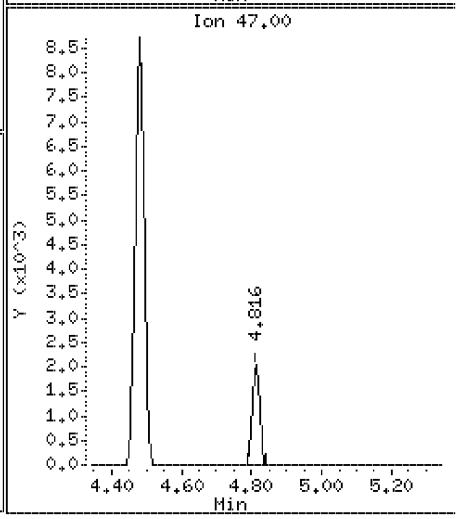


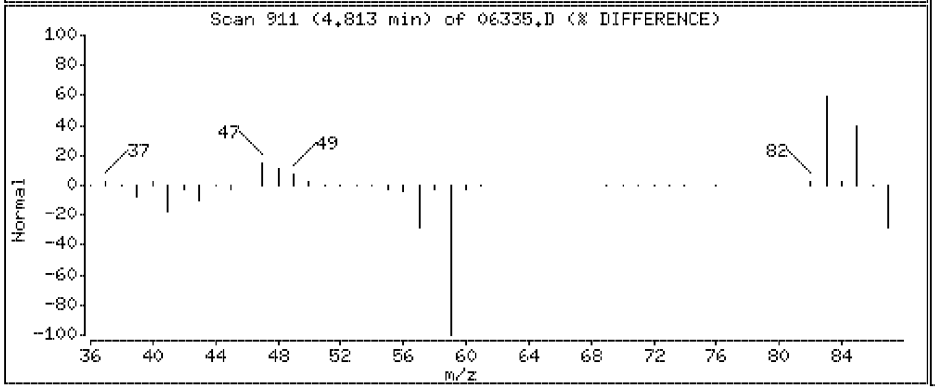












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

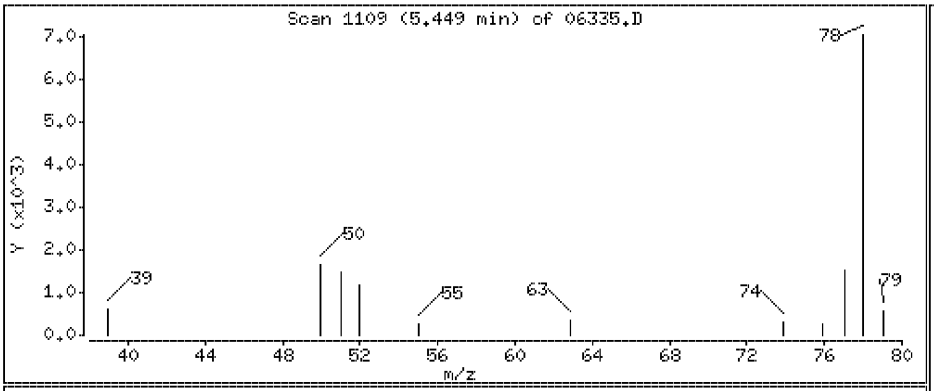
Operator: MJL

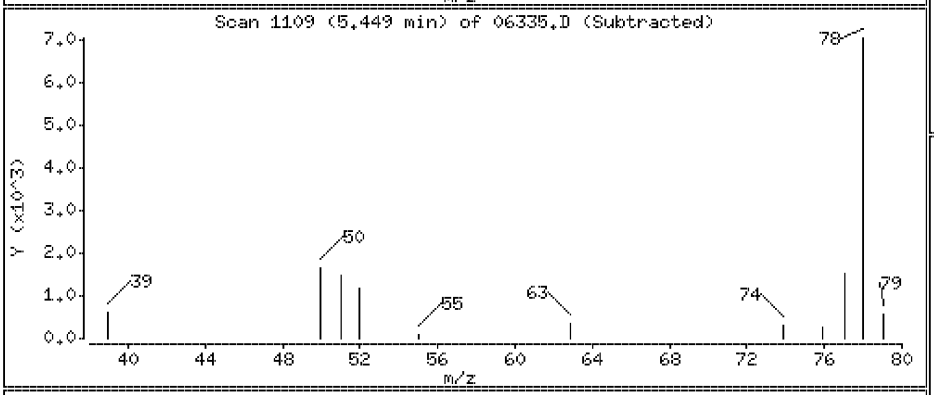
Column phase: J&W DB-5

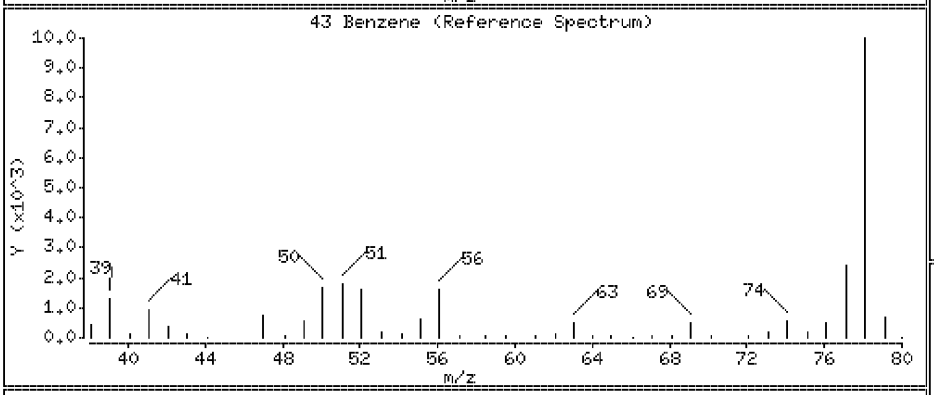
Column diameter: 0.32

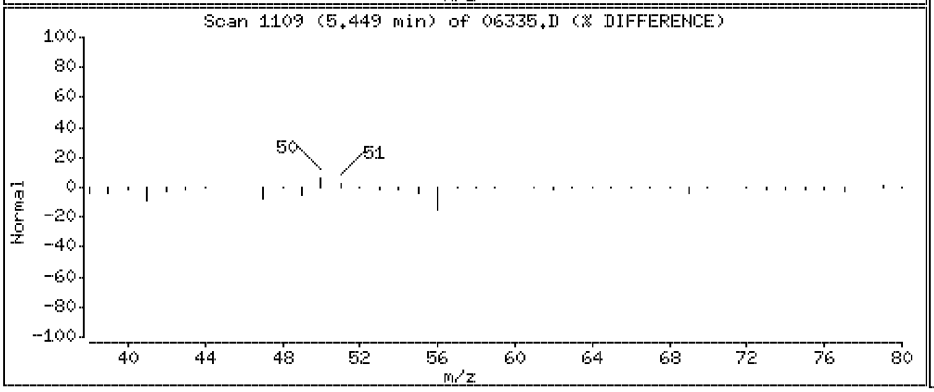
43 Benzene

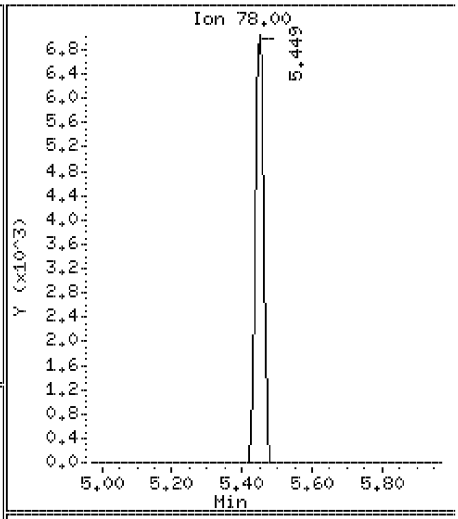
Concentration: 0.473 ppbv

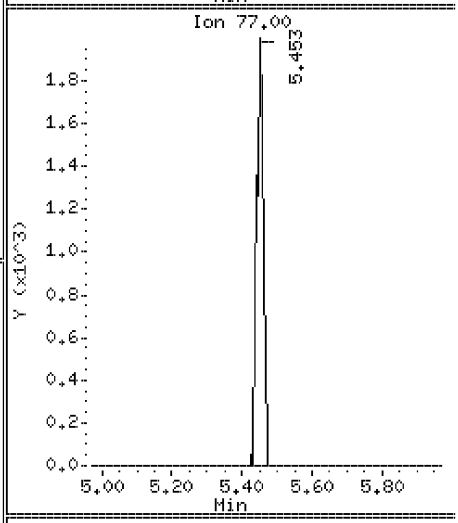


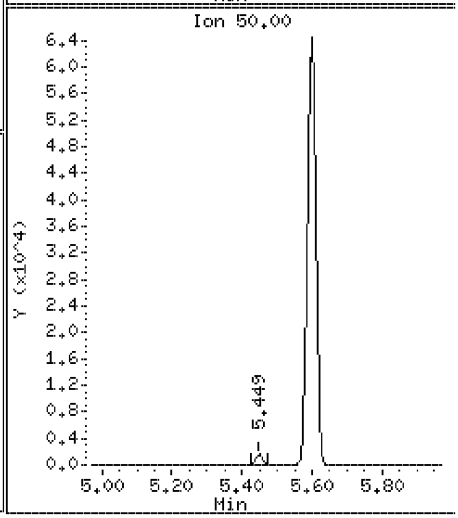












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

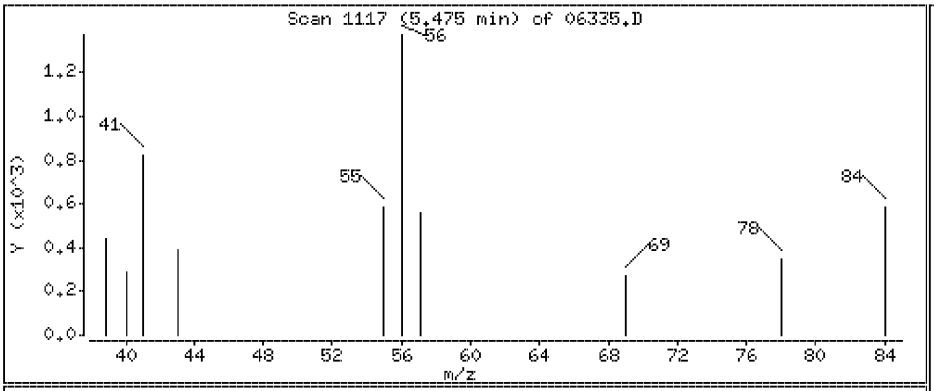
Operator: MJL

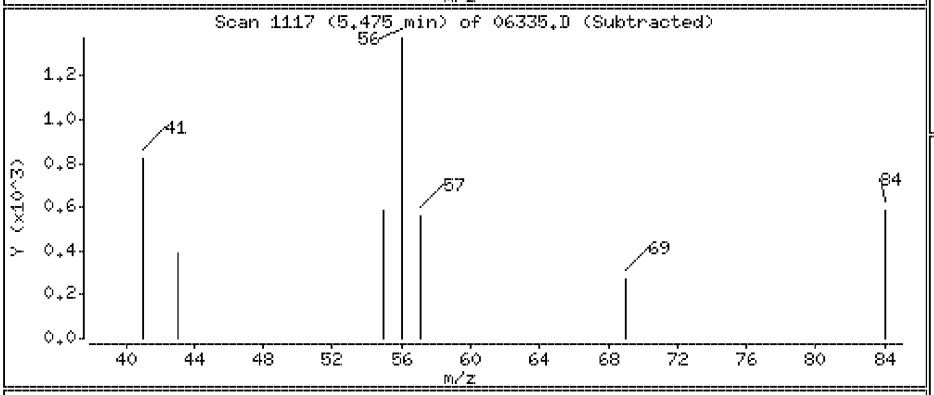
Column phase: J&W DB-5

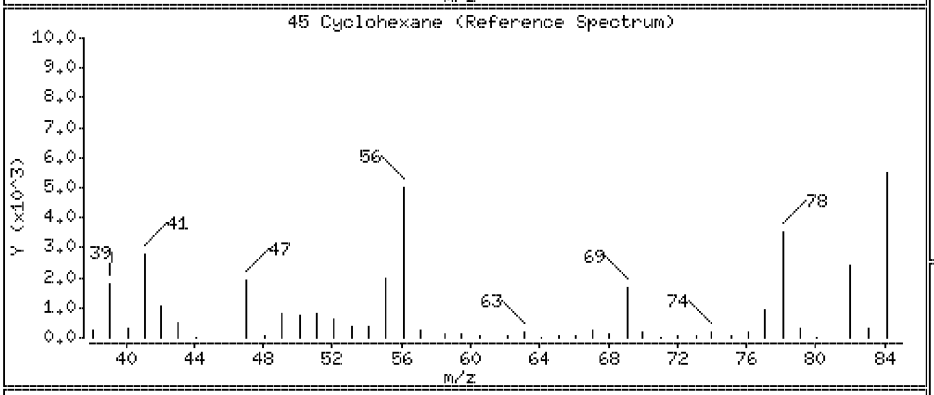
Column diameter: 0.32

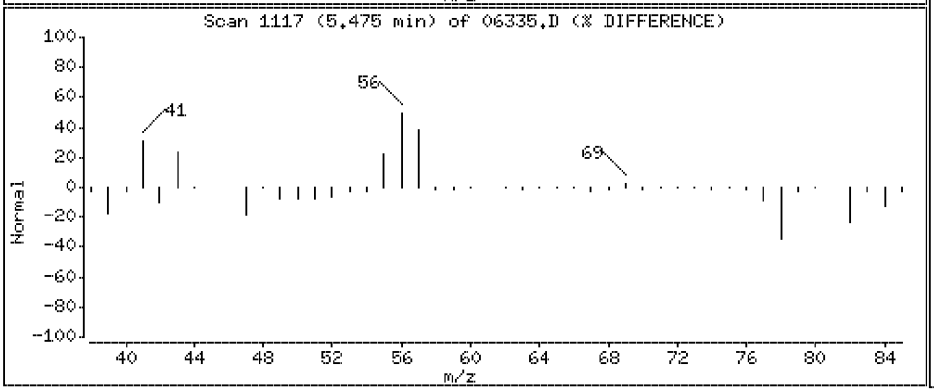
45 Cyclohexane

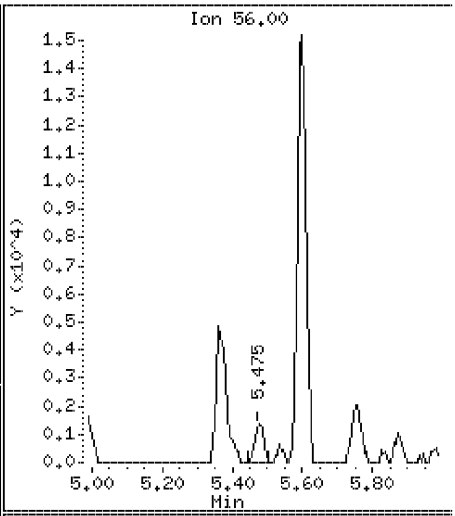
Concentration: 0.202 ppbv

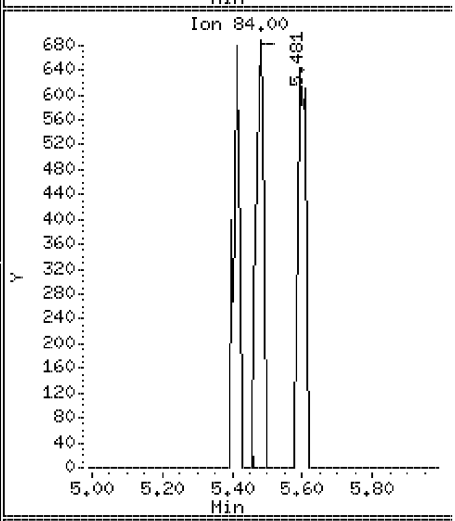


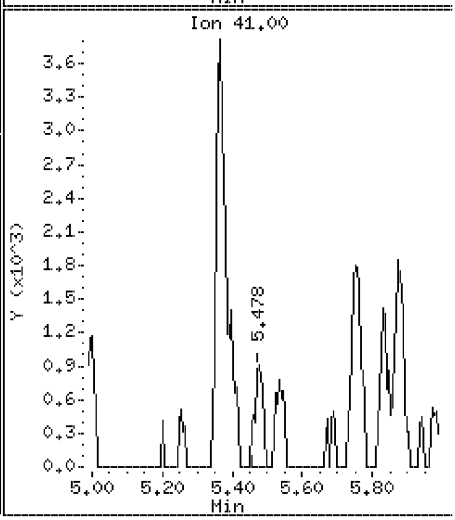












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

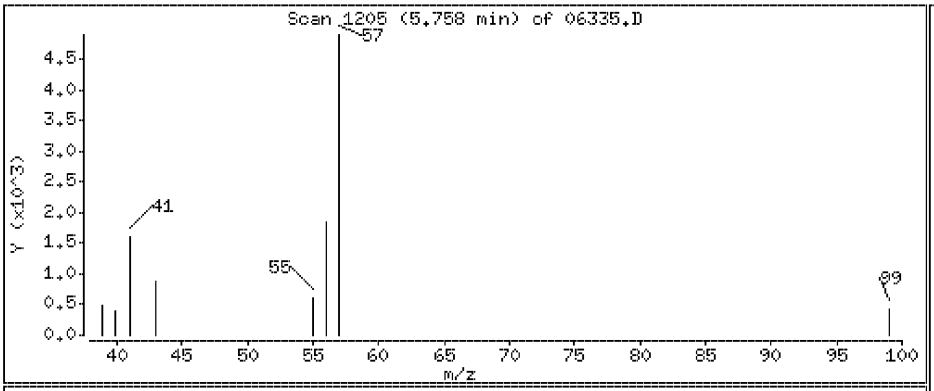
Operator: MJL

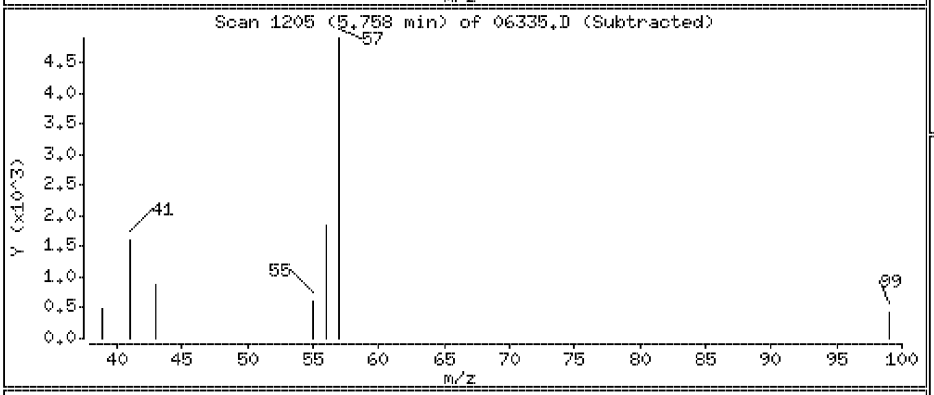
Column phase: J&W DB-5

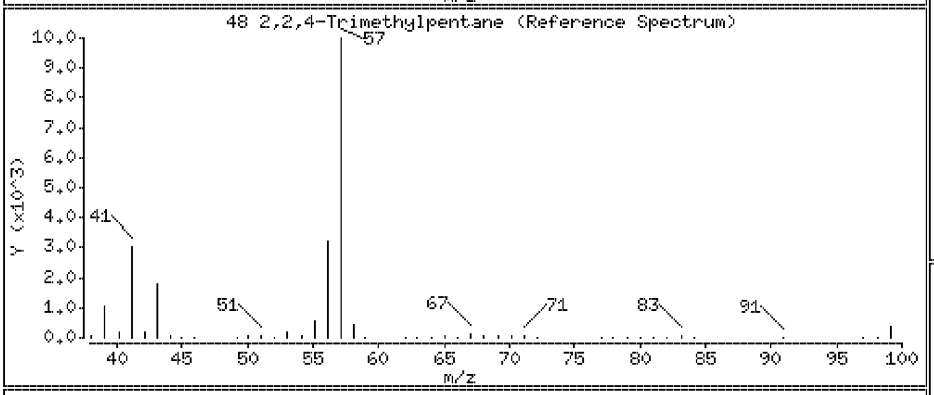
Column diameter: 0.32

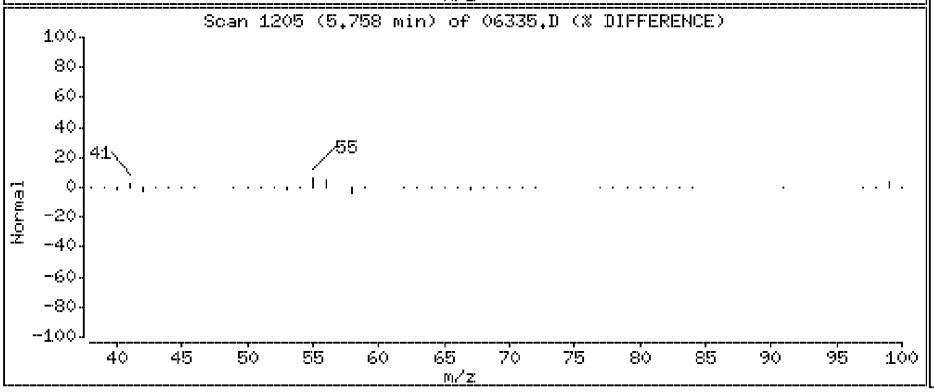
48 2,2,4-Trimethylpentane

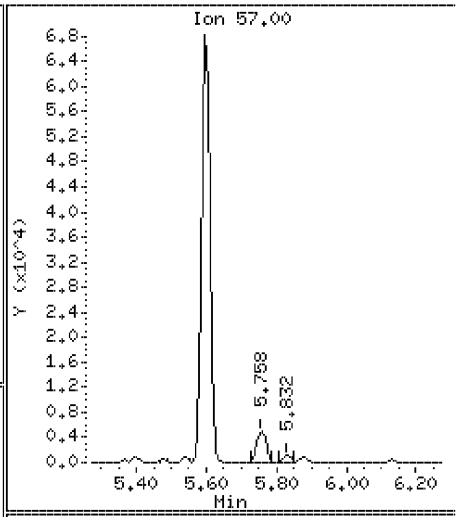
Concentration: 0.262 ppbv

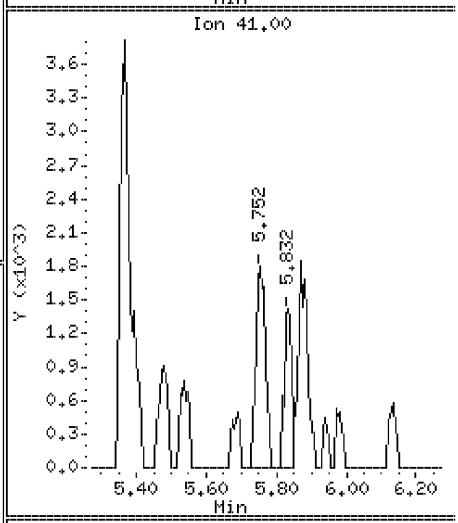


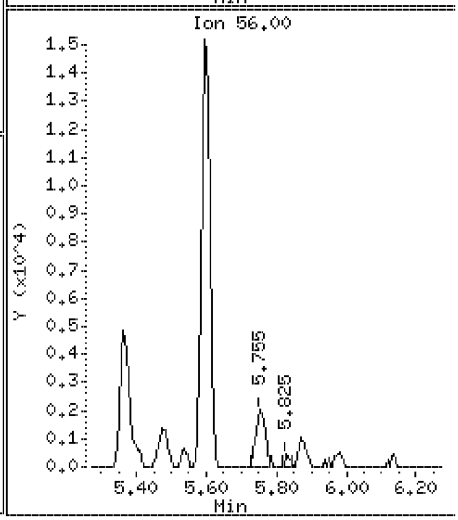












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

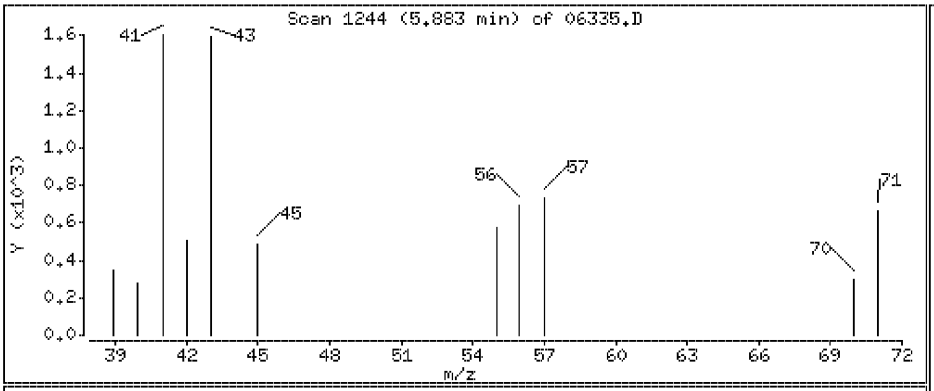
Operator: MJL

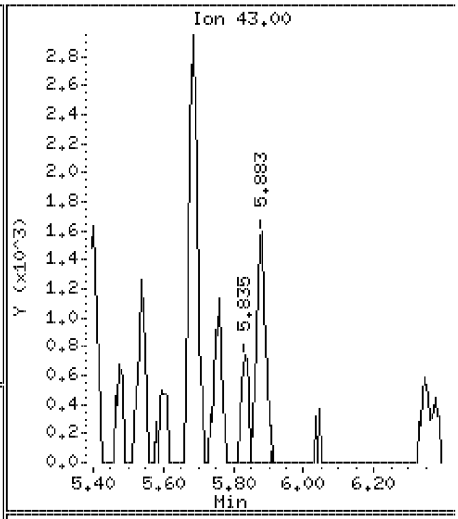
Column phase: J&W DB-5

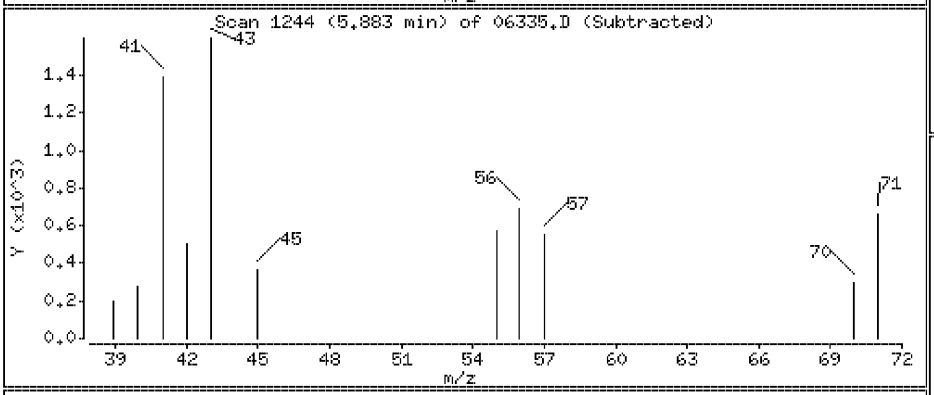
Column diameter: 0.32

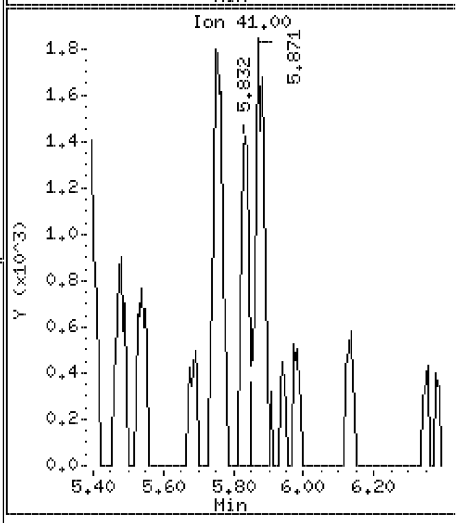
49 Heptane

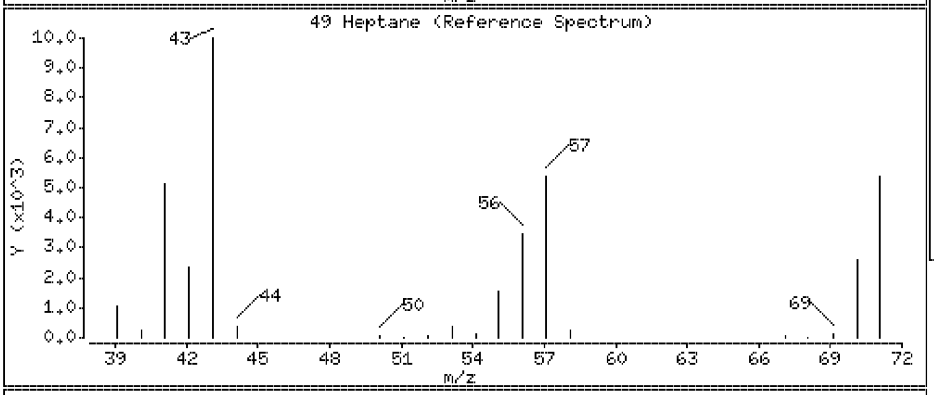
Concentration: 0.212 ppbv

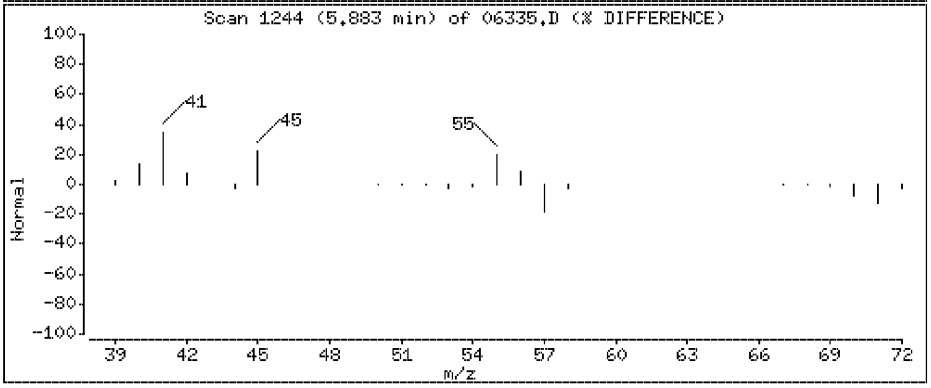












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

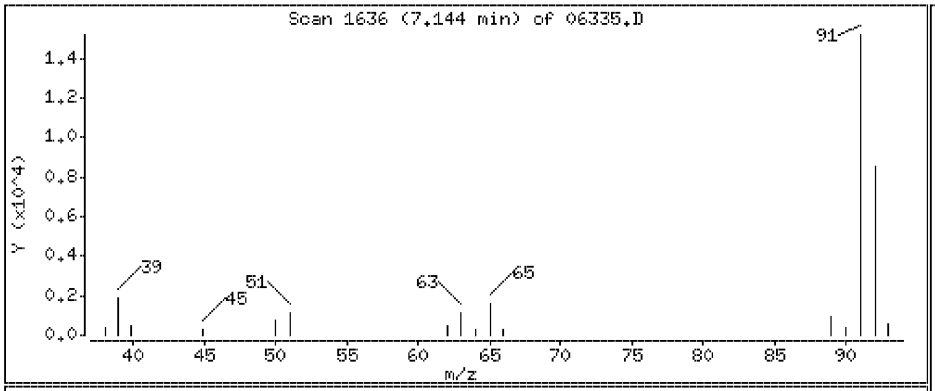
Operator: MJL

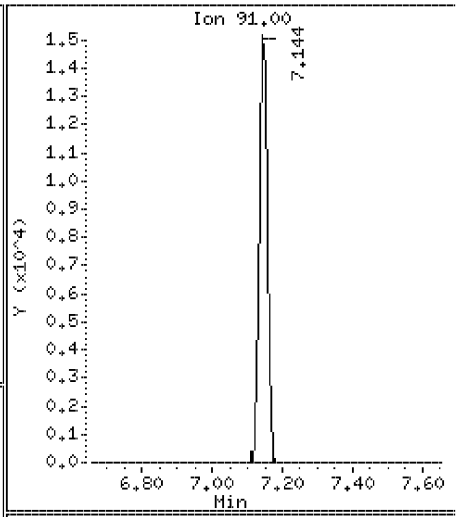
Column phase: J&W DB-5

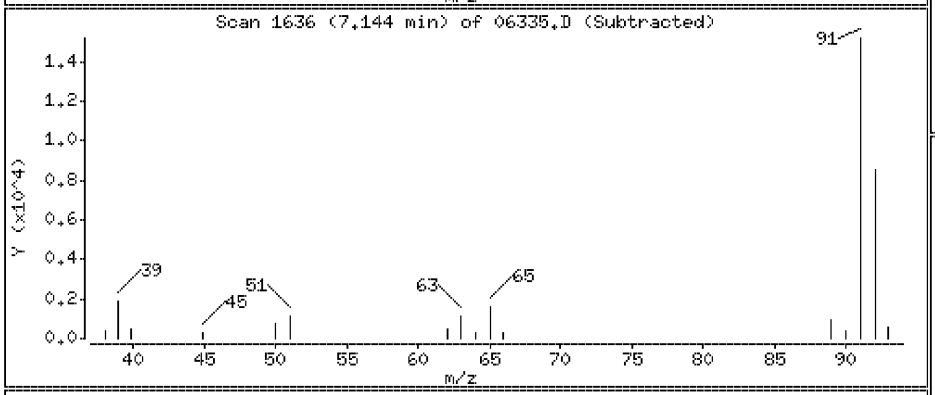
Column diameter: 0.32

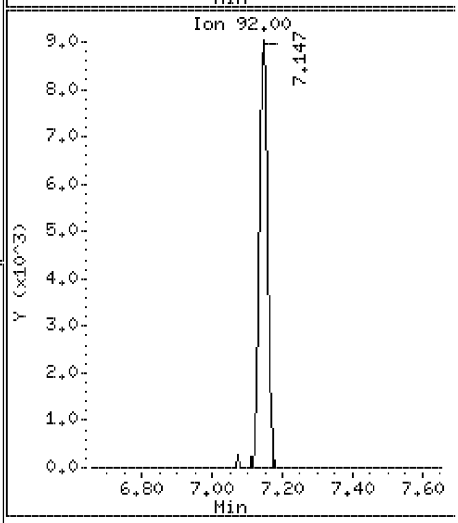
61 Toluene

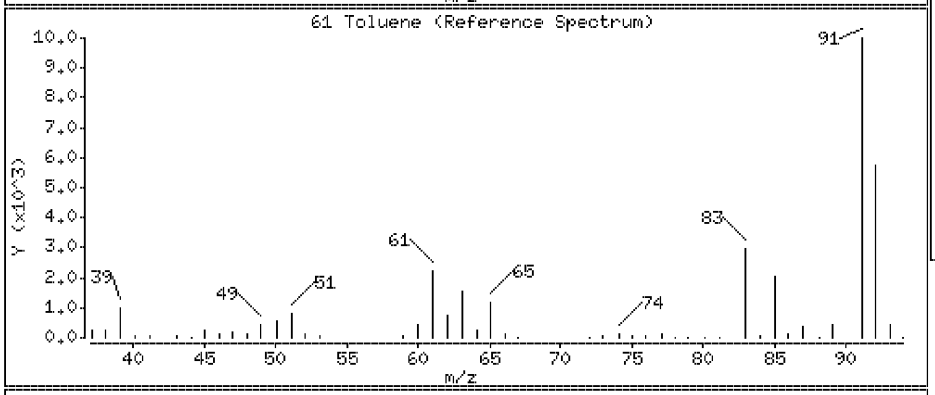
Concentration: 0.836 ppbv

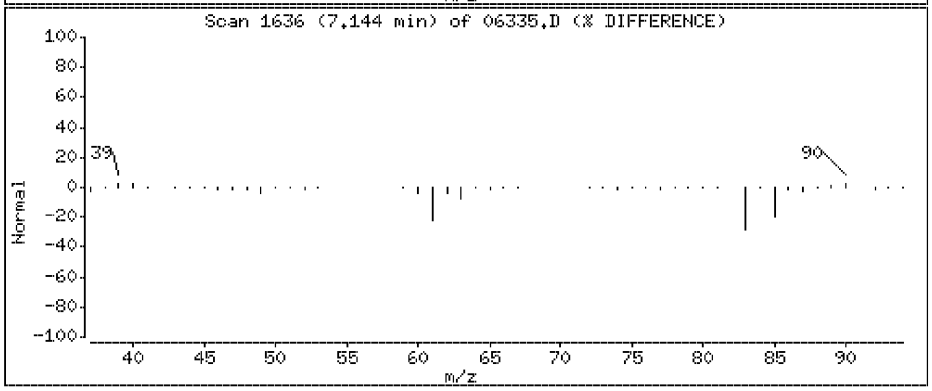












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

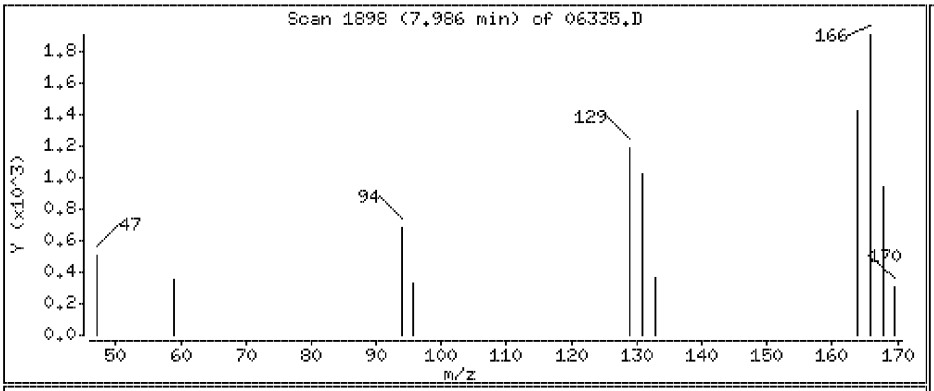
Operator: MJL

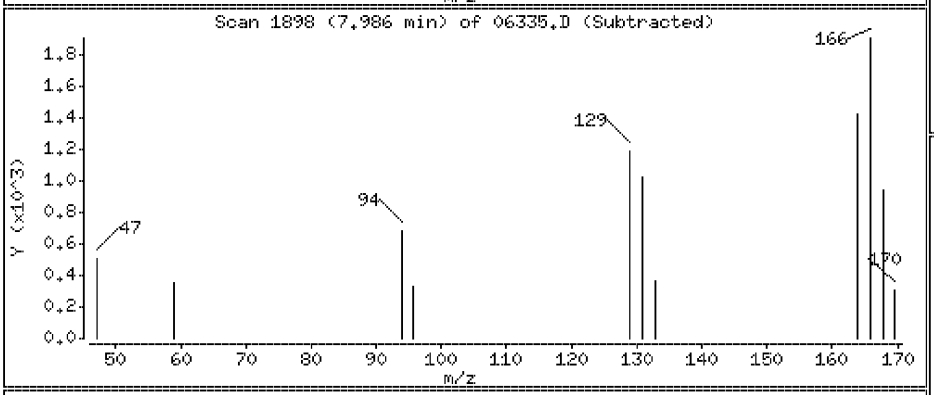
Column phase: J&W DB-5

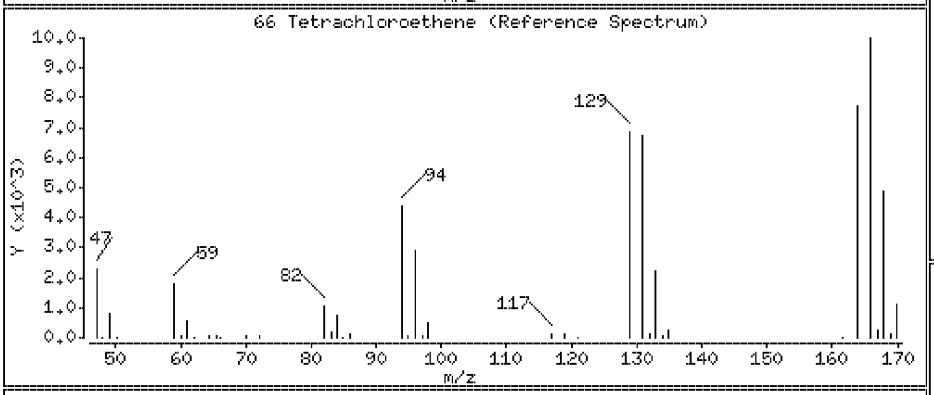
Column diameter: 0.32

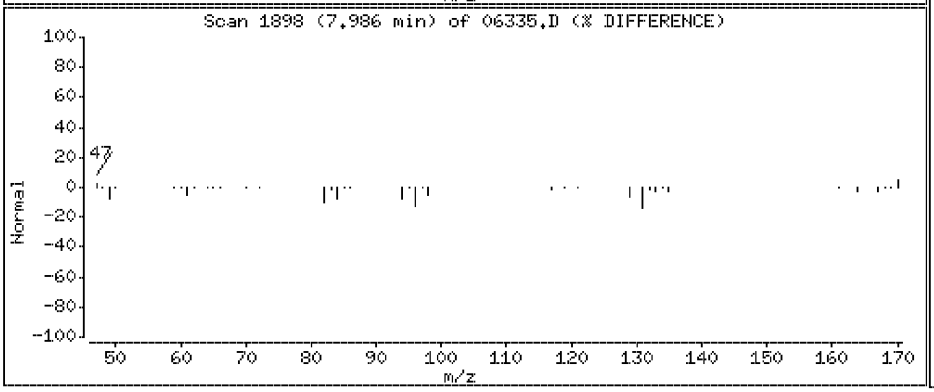
66 Tetrachloroethene

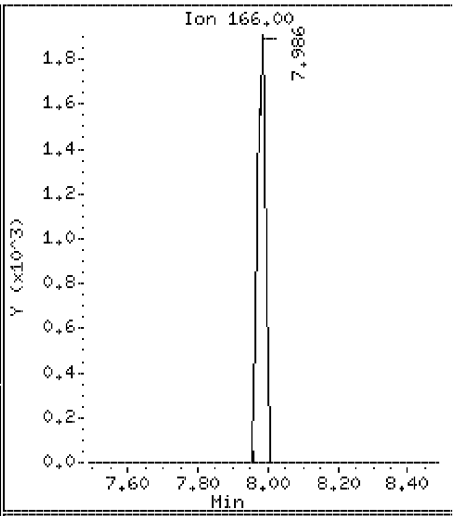
Concentration: 0.187 ppbv

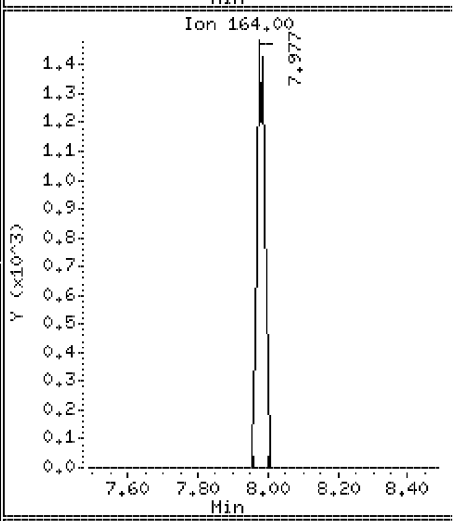


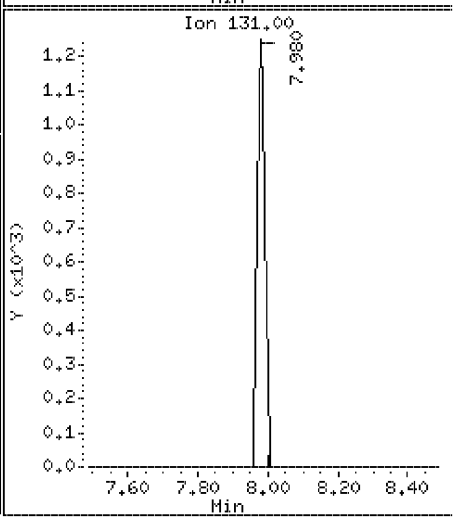












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

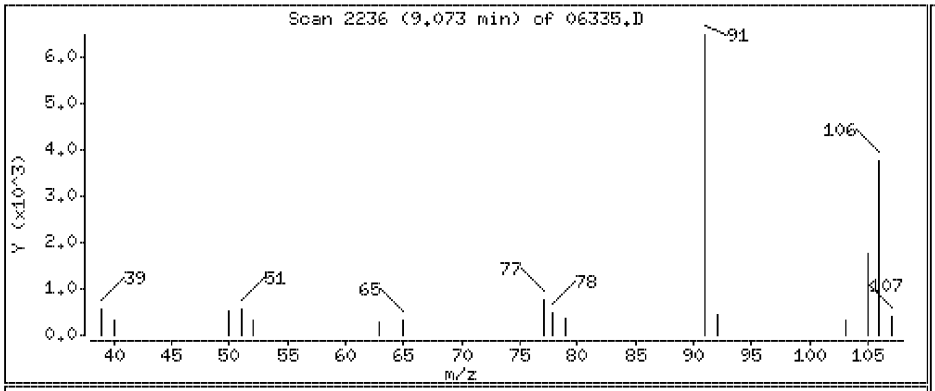
Operator: MJL

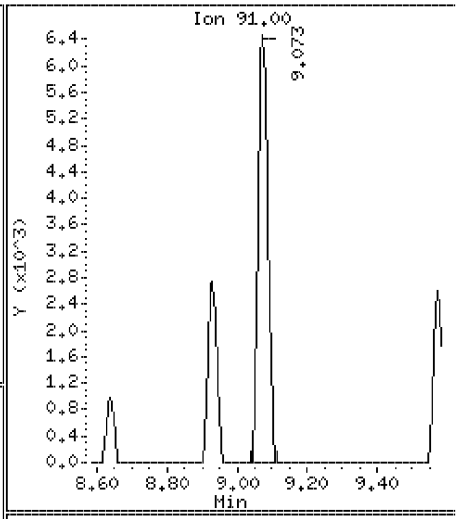
Column phase: J&W DB-5

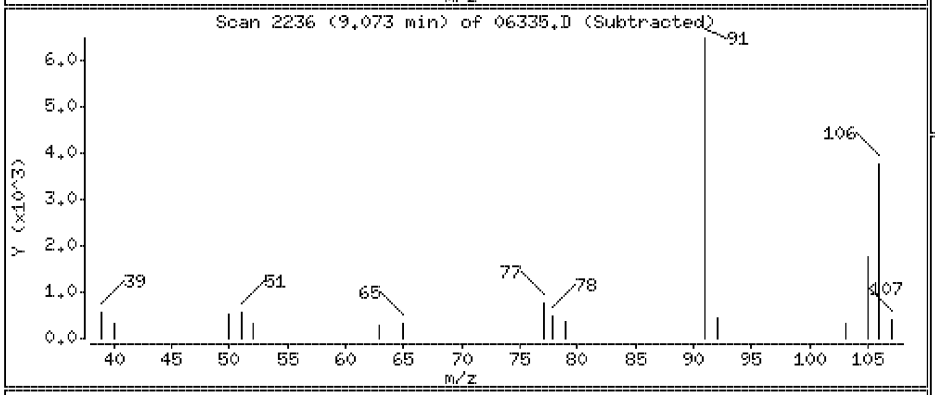
Column diameter: 0.32

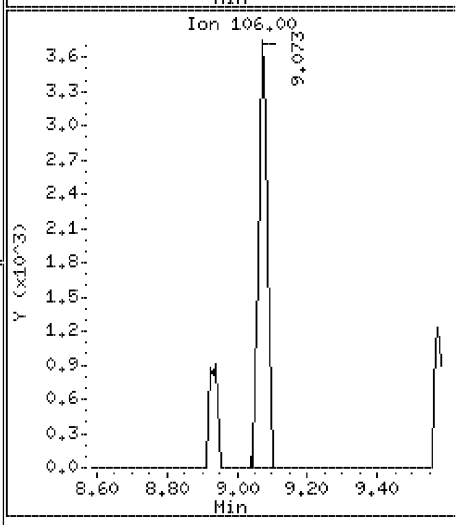
70 m&p-Xylene

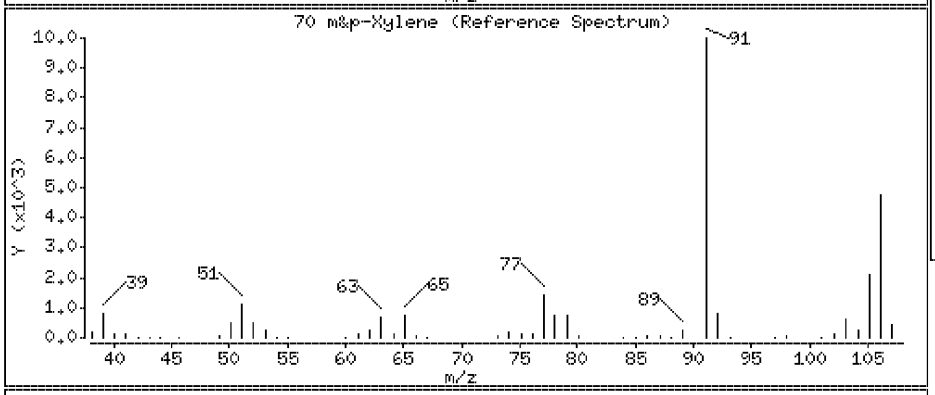
Concentration: 0.464 ppbv

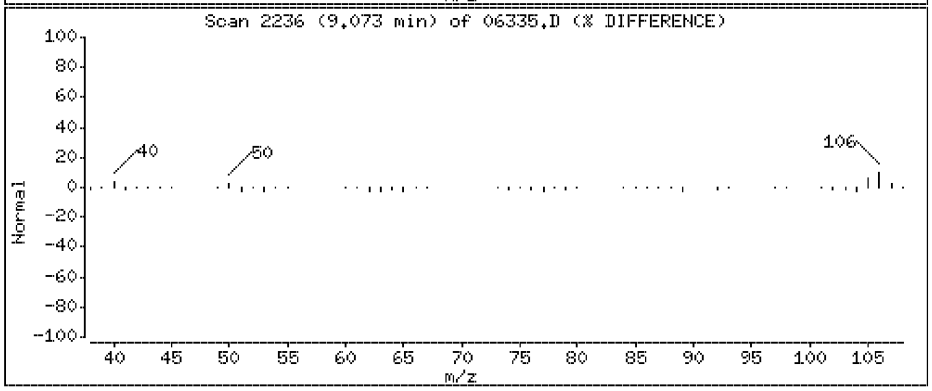












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

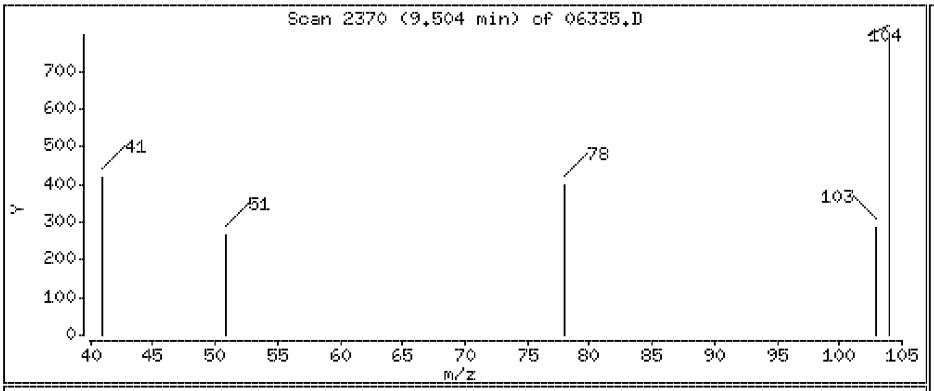
Operator: MJL

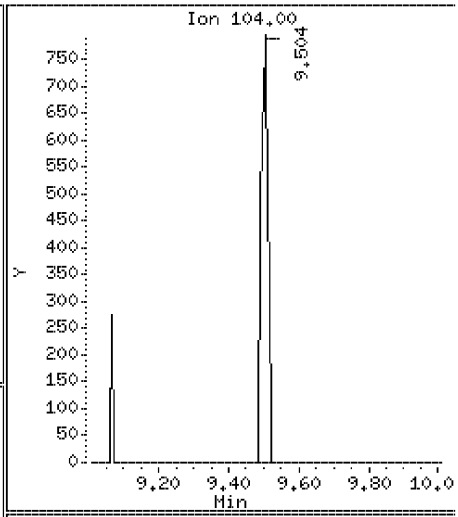
Column phase: J&W DB-5

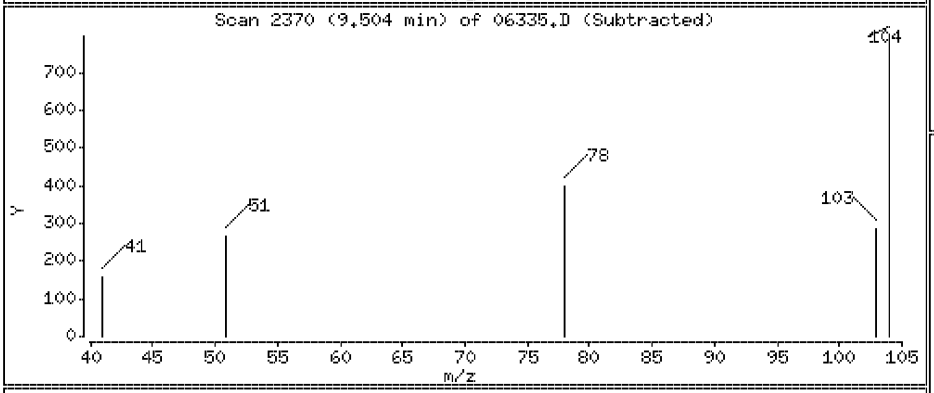
Column diameter: 0.32

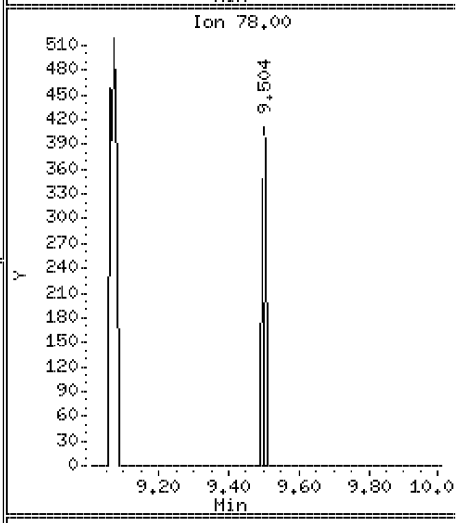
73 Styrene

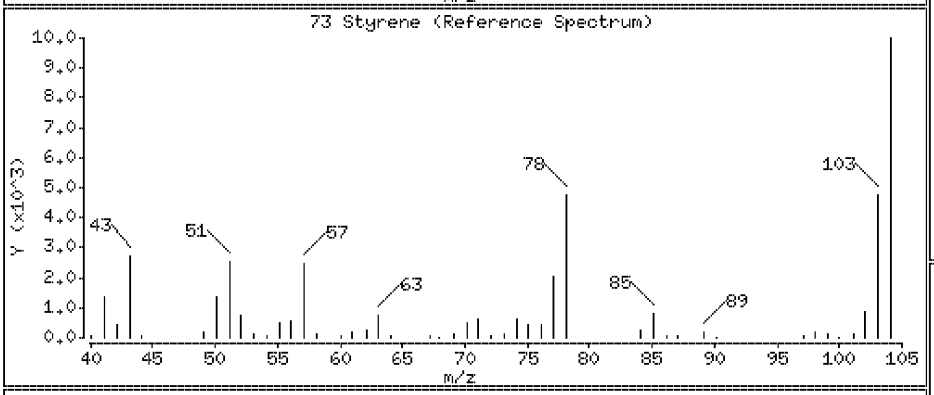
Concentration: 0.194 ppbv

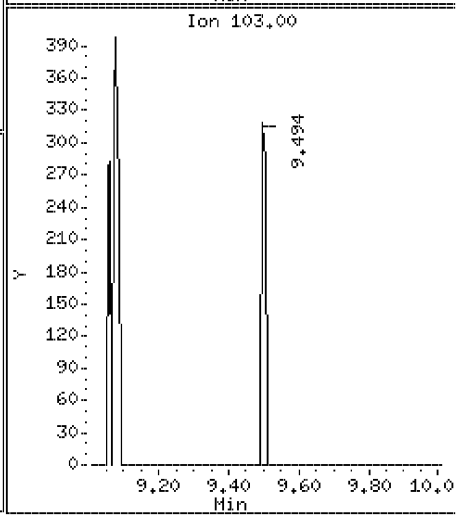


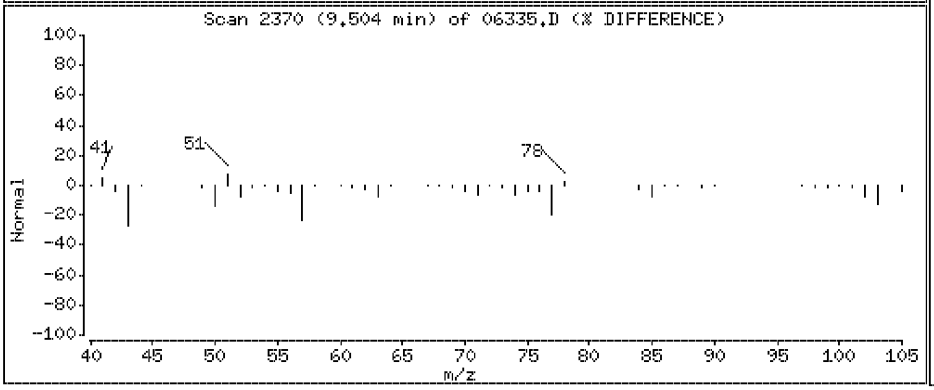












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

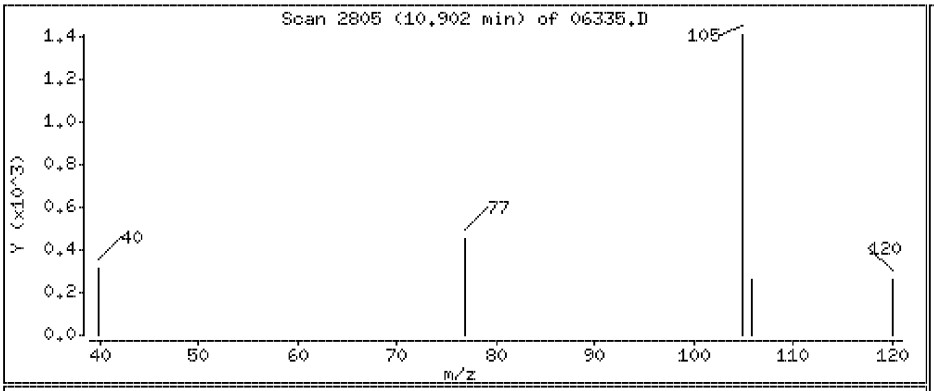
Operator: MJL

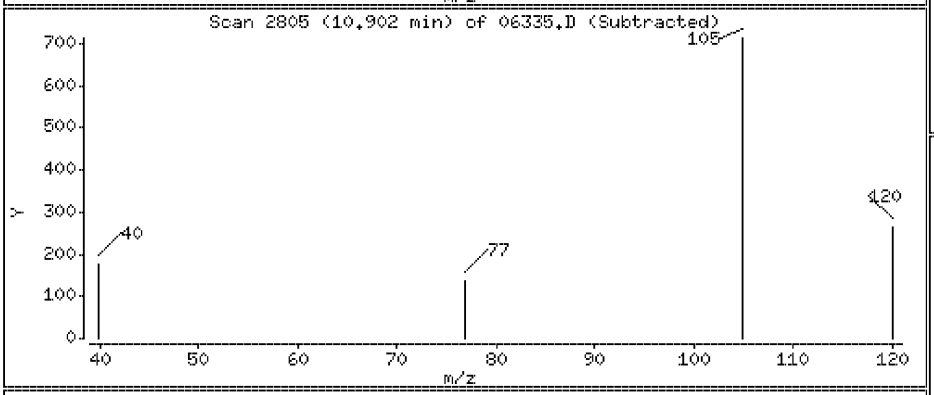
Column phase: J&W DB-5

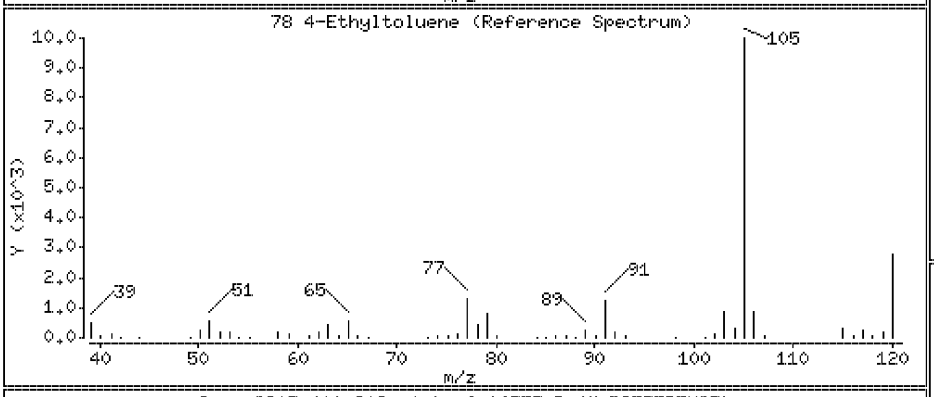
Column diameter: 0.32

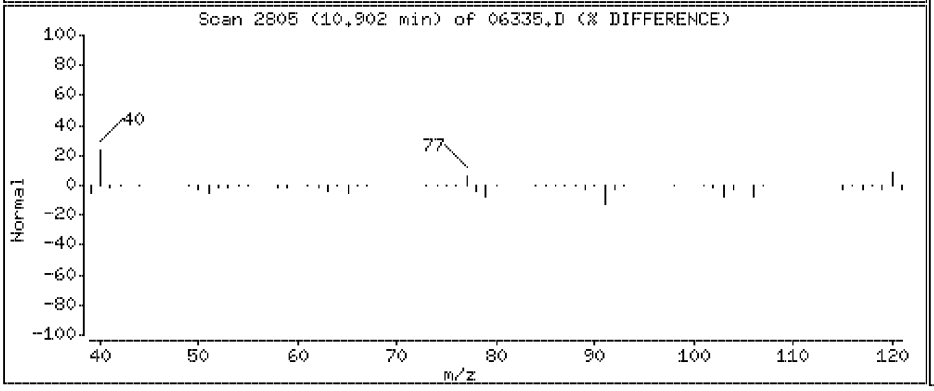
78 4-Ethyltoluene

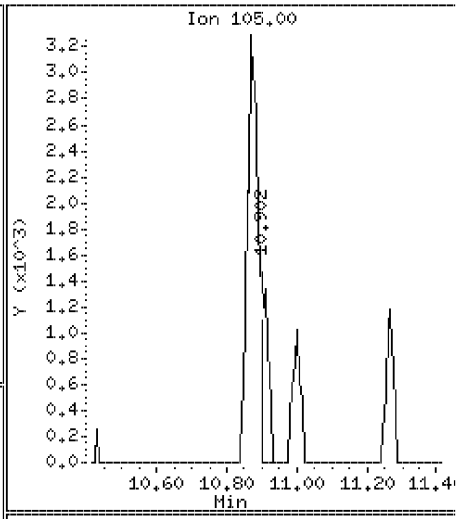
Concentration: 0.235 ppbv

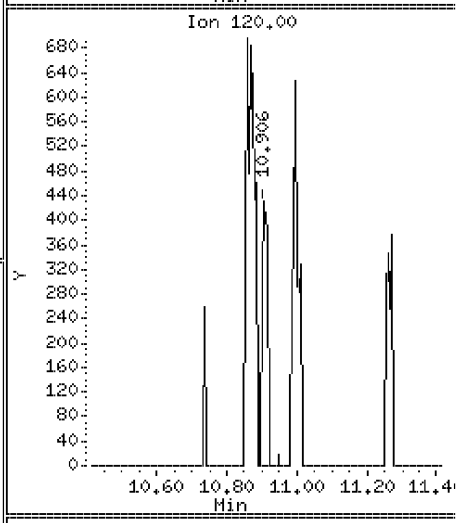


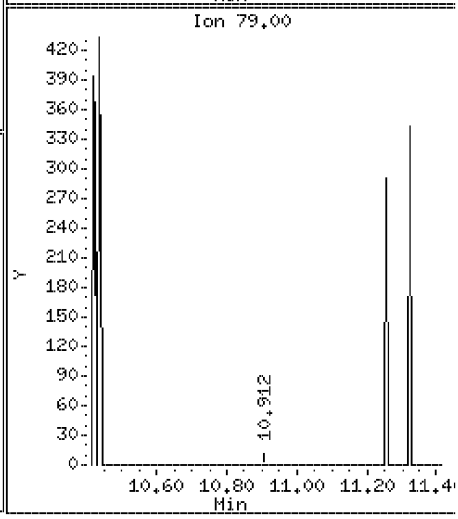












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

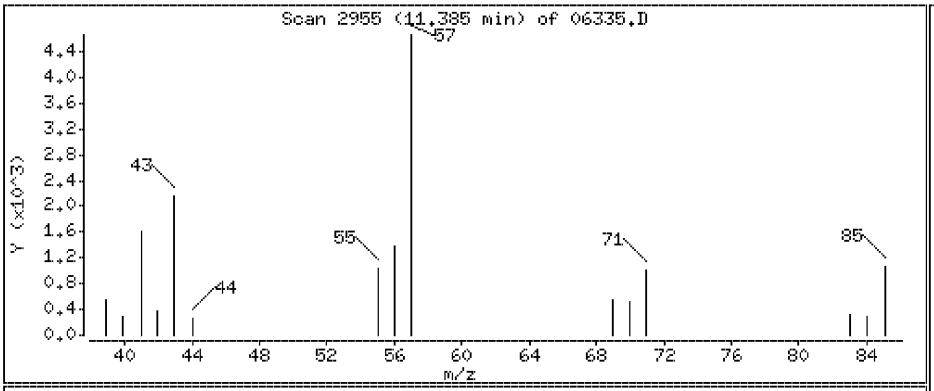
Operator: MJL

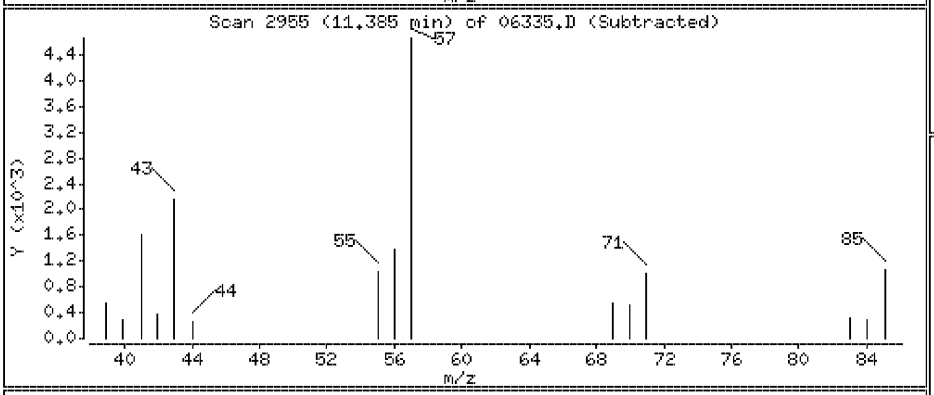
Column phase: J&W DB-5

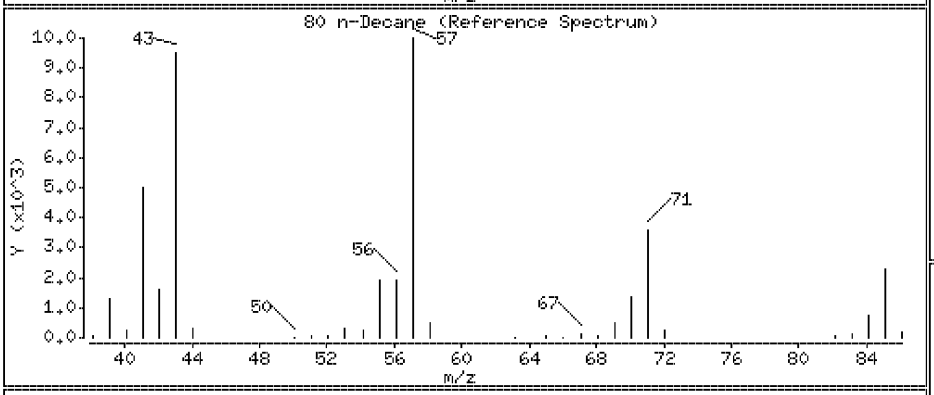
Column diameter: 0.32

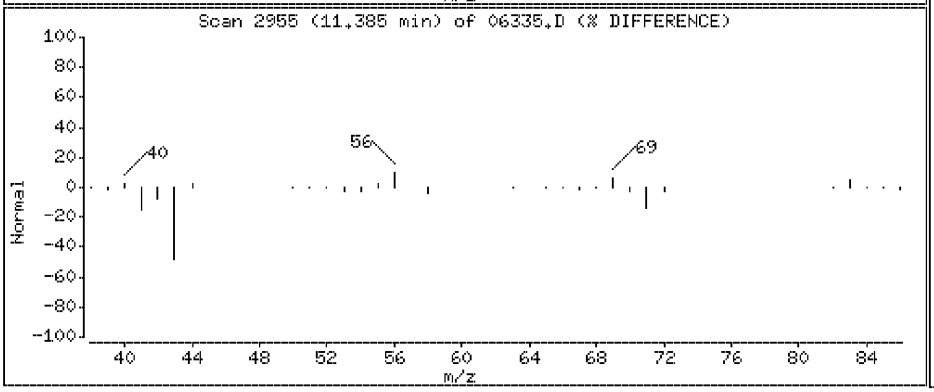
80 n-Decane

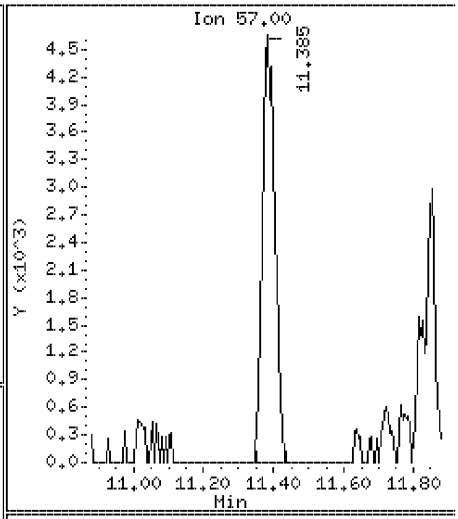
Concentration: 1.06 ppbv

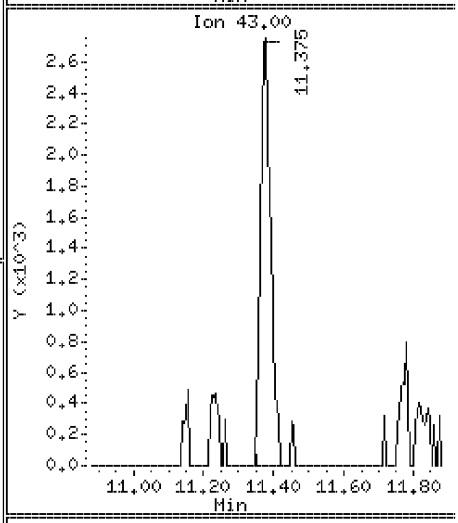


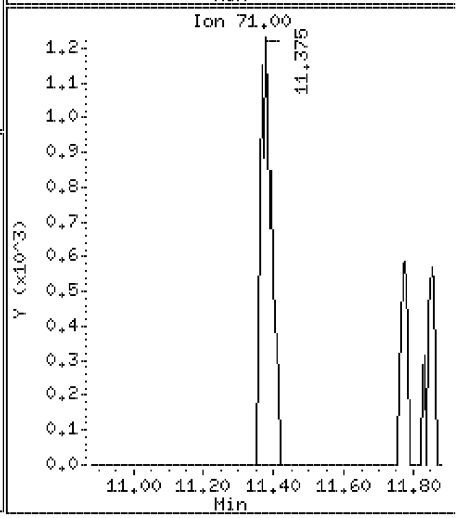












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

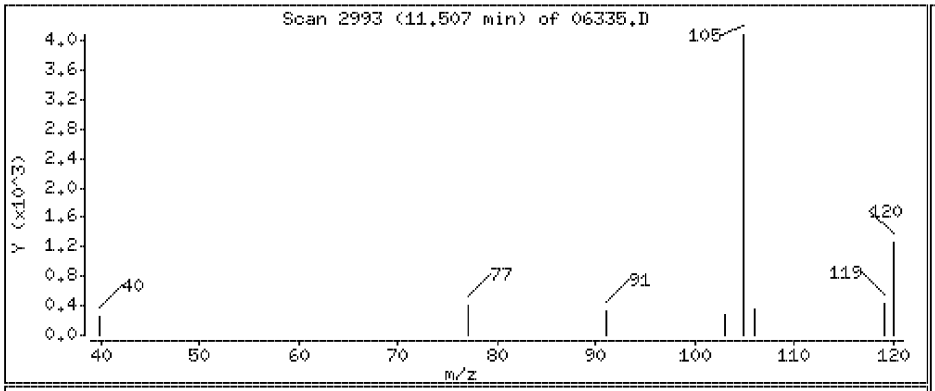
Operator: MJL

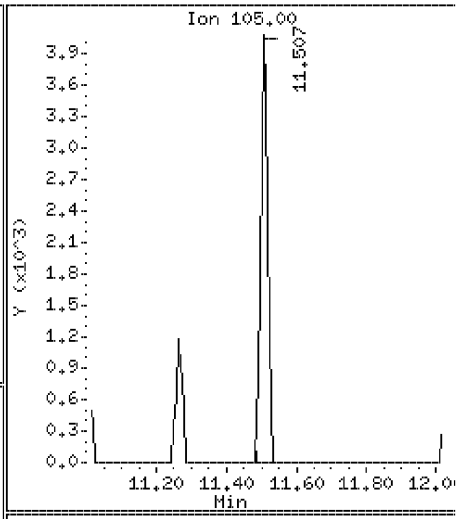
Column phase: J&W DB-5

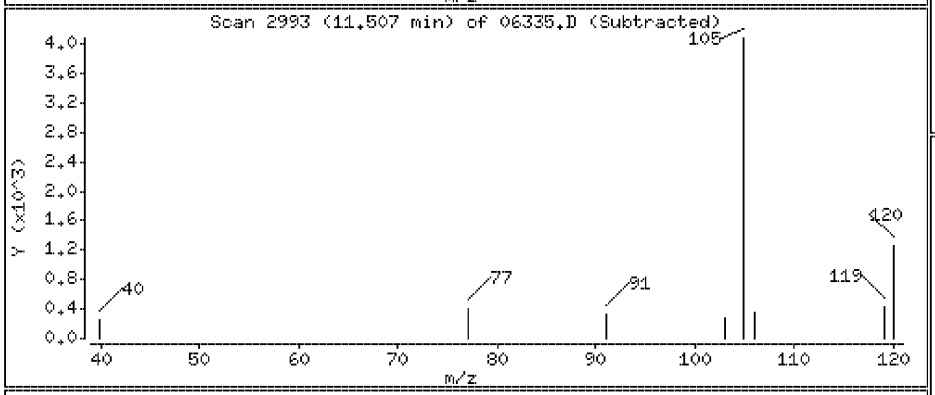
Column diameter: 0.32

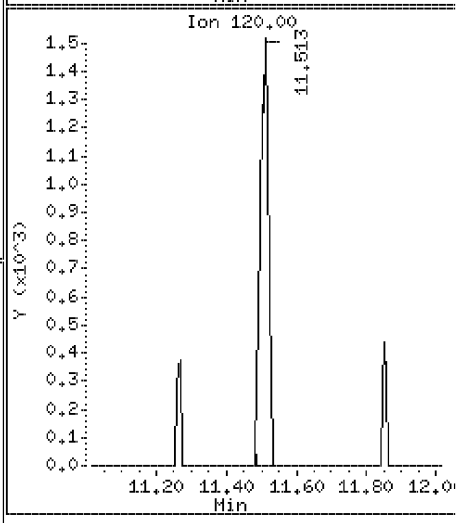
82 1,2,4-Trimethylbenzene

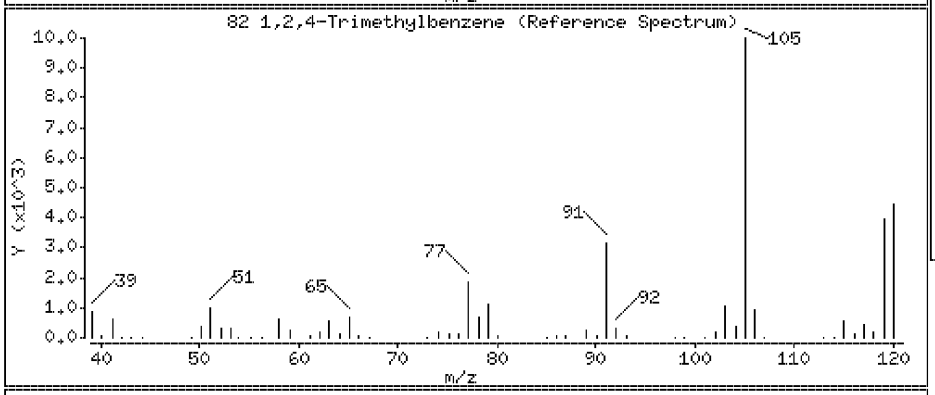
Concentration: 0.197 ppbv

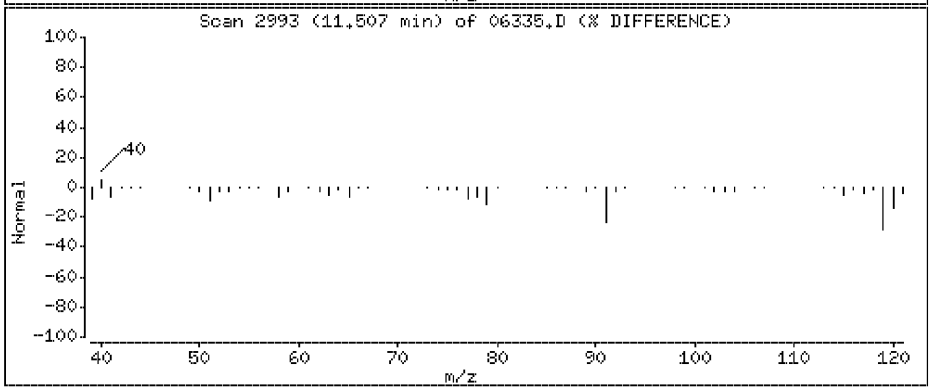












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06335.D

Date : 05-MAR-2017 00:23

Client ID:

Instrument: 10airB.i

Sample Info:

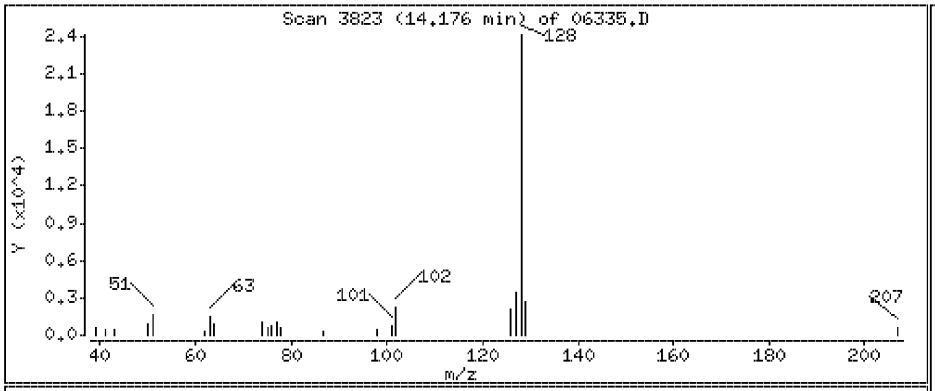
Operator: MJL

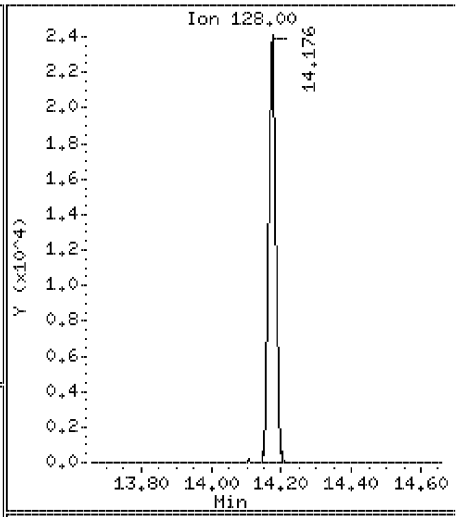
Column phase: J&W DB-5

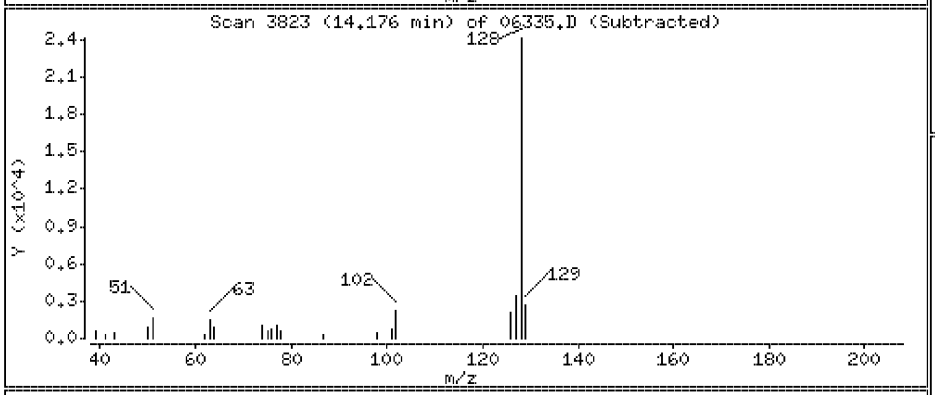
Column diameter: 0.32

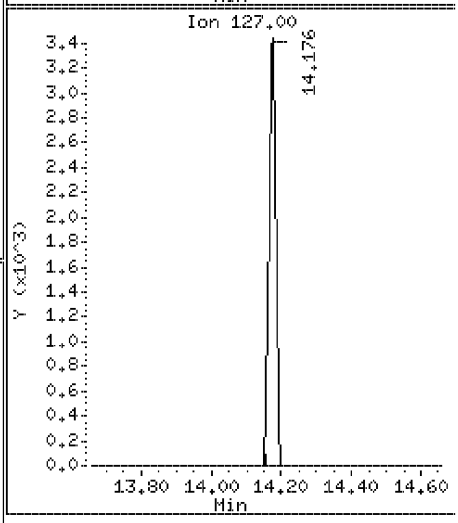
94 Naphthalene

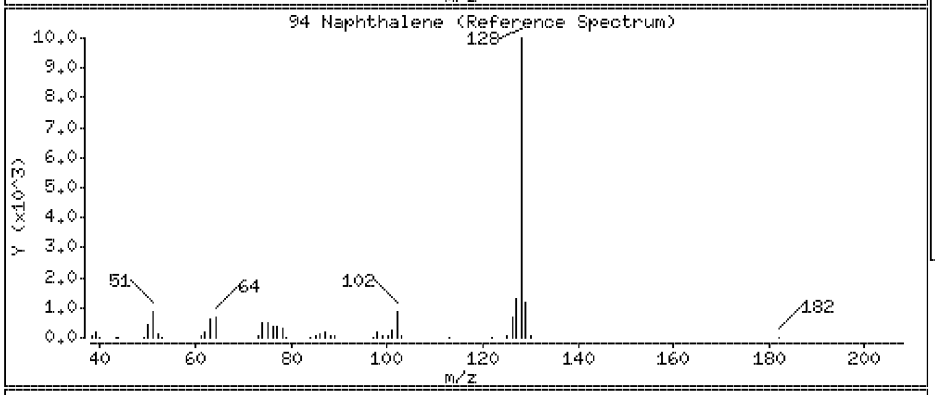
Concentration: 2.37 ppbv

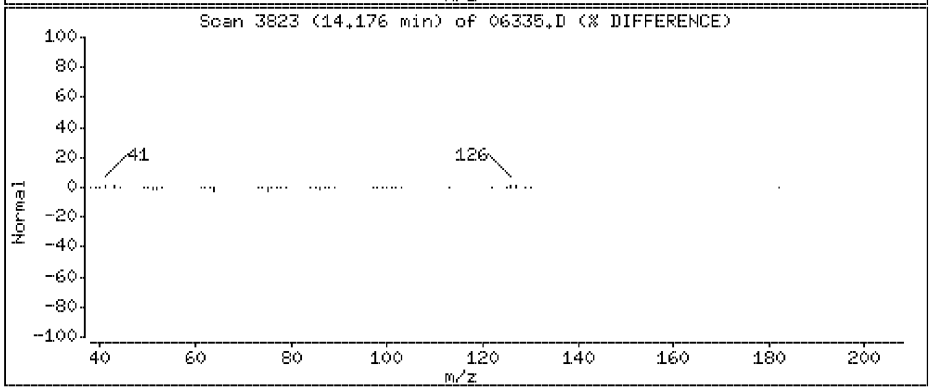






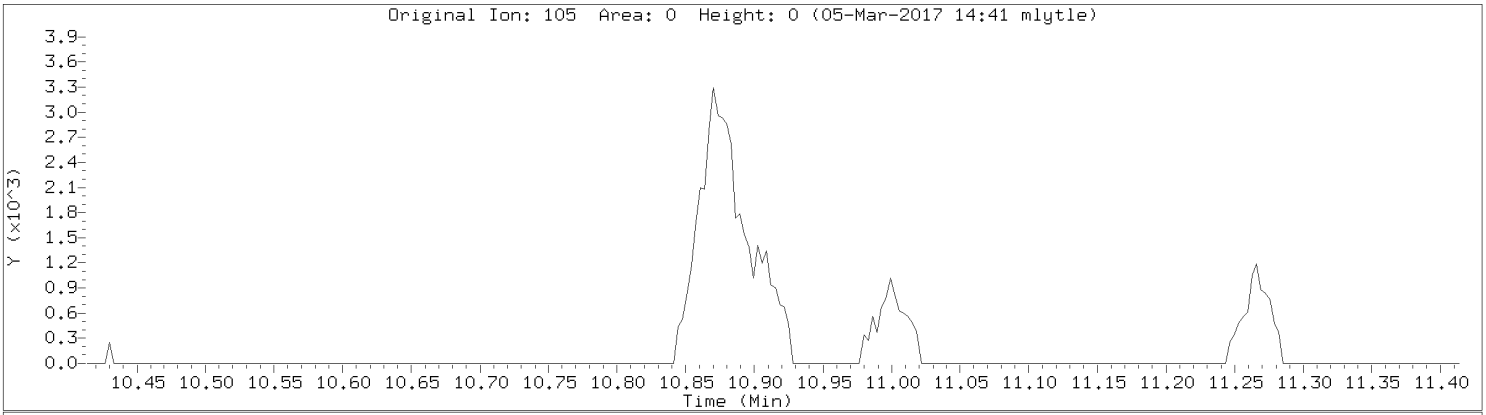


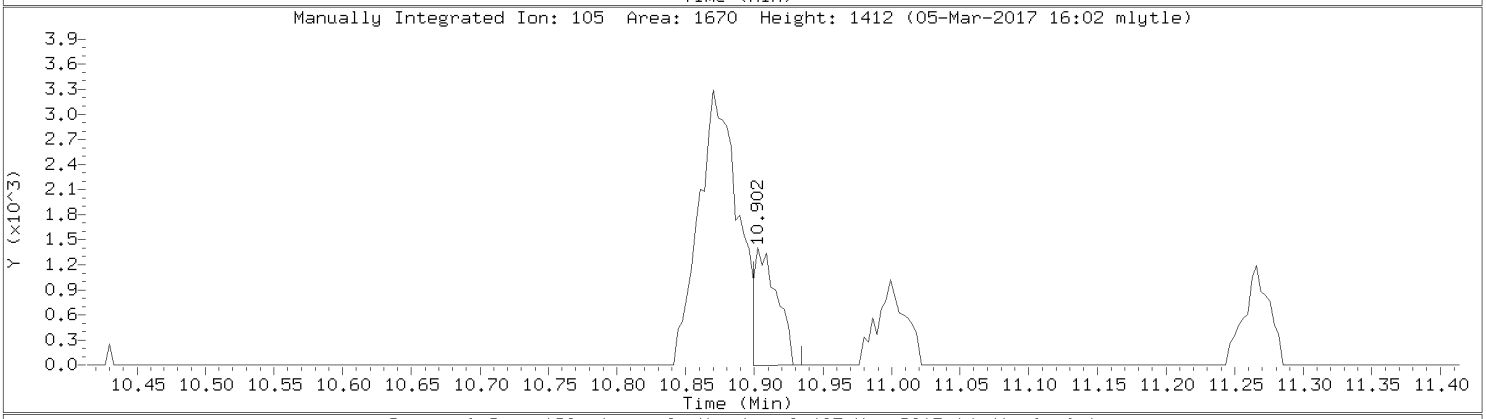


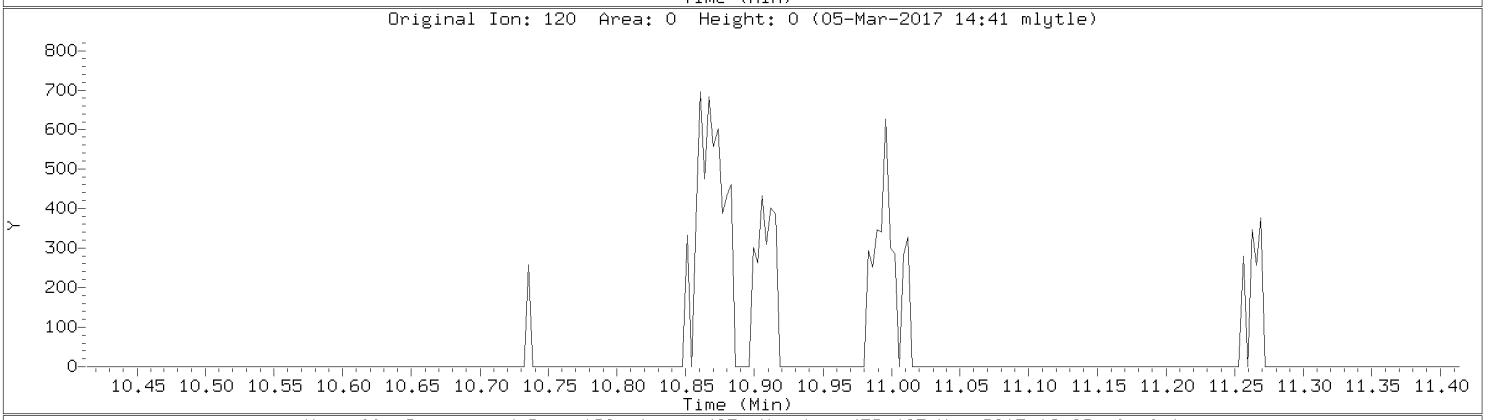


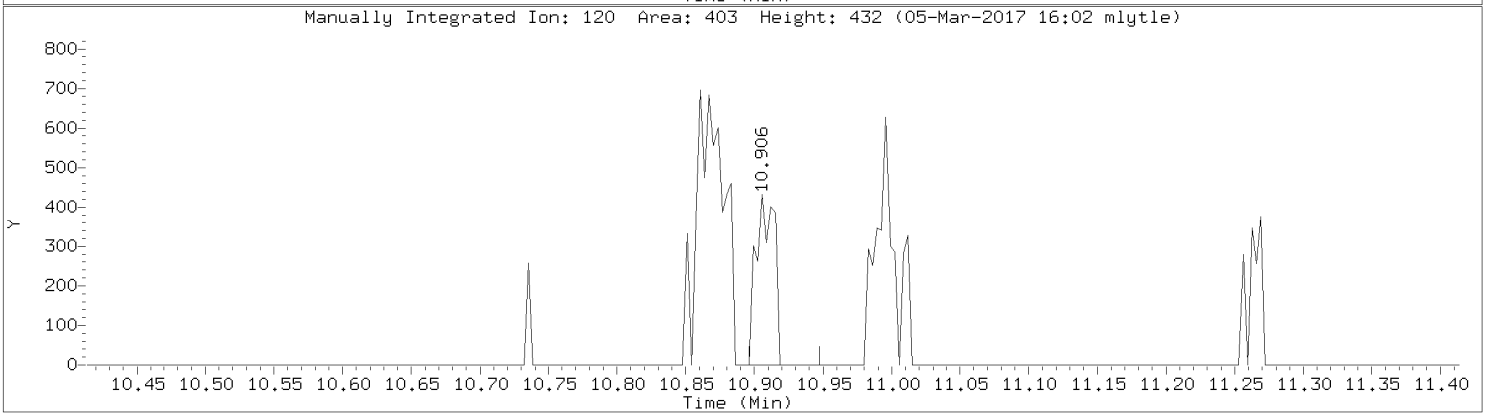
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06335.D
Injection Date: 05-MAR-2017 00:23
Instrument: 10airB.i
Lab Sample ID: 10379458008

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

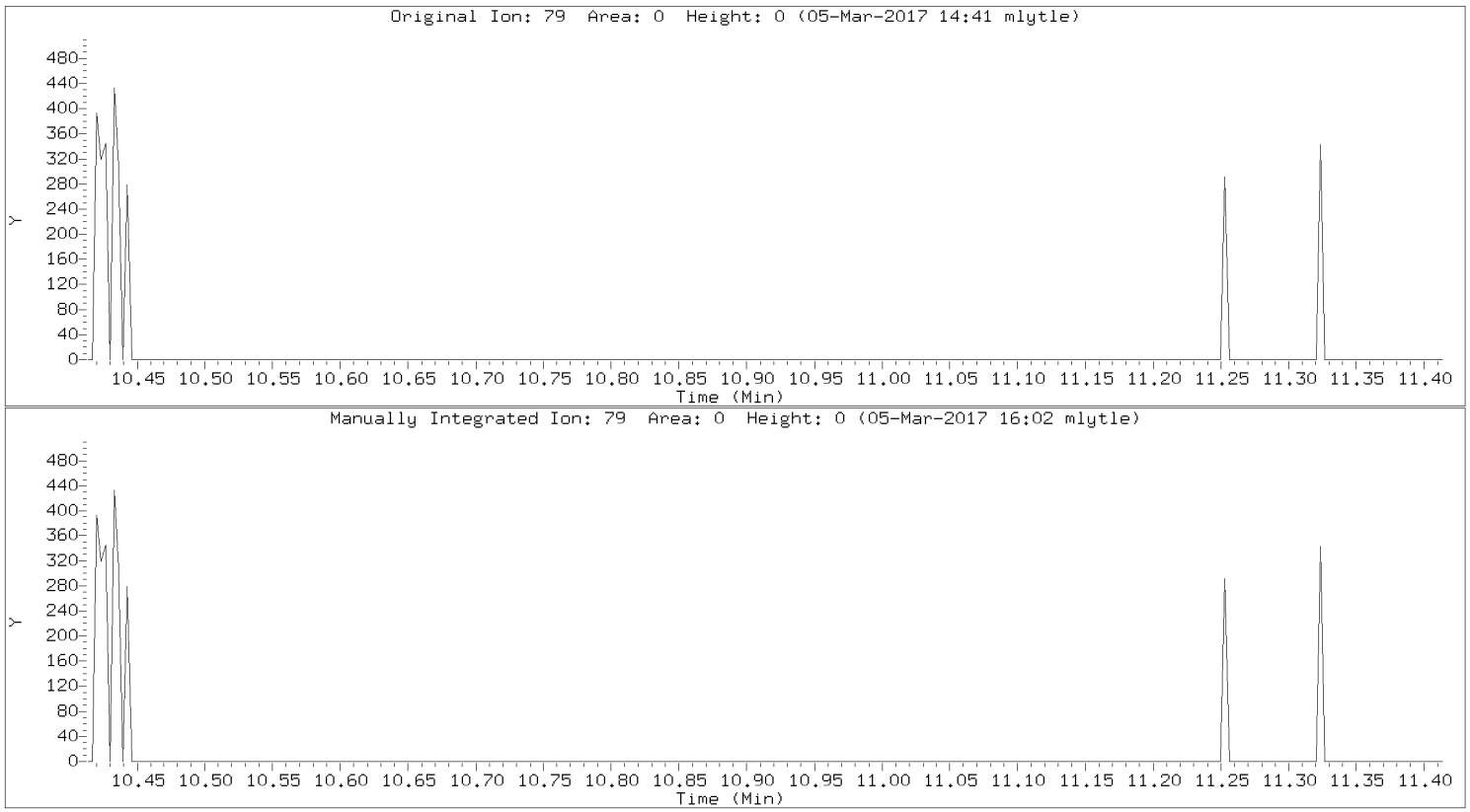








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06335.D
Injection Date: 05-MAR-2017 00:23
Instrument: 10airB.i
Lab Sample ID: 10379458008



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-E16_20170215 **Lab ID: 10379458009** Collected: 02/15/17 17:09 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**42.3**	ug/m3	4.9	1.7	2.01		03/05/17 00:56	67-64-1	
Allyl chloride	**<0.46**	ug/m3	3.2	0.46	2.01		03/05/17 00:56	107-05-1	
Benzene	**1.7**	ug/m3	0.65	0.25	2.01		03/05/17 00:56	71-43-2	
Bromodichloromethane	**<0.39**	ug/m3	2.7	0.39	2.01		03/05/17 00:56	75-27-4	
Bromoform	**<1.8**	ug/m3	4.2	1.8	2.01		03/05/17 00:56	75-25-2	
Bromomethane	**<0.62**	ug/m3	1.6	0.62	2.01		03/05/17 00:56	74-83-9	
1,3-Butadiene	**<0.35**	ug/m3	0.90	0.35	2.01		03/05/17 00:56	106-99-0	
2-Butanone (MEK)	**6.0J**	ug/m3	6.0	0.46	2.01		03/05/17 00:56	78-93-3	
Carbon disulfide	**<0.20**	ug/m3	1.3	0.20	2.01		03/05/17 00:56	75-15-0	
Carbon tetrachloride	**<0.39**	ug/m3	1.3	0.39	2.01		03/05/17 00:56	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		03/05/17 00:56	108-90-7	
Chlorodifluoromethane	**<0.55**	ug/m3	1.4	0.55	2.01		03/05/17 00:56	75-45-6	
Chloroethane	**<0.39**	ug/m3	1.1	0.39	2.01		03/05/17 00:56	75-00-3	
Chloroform	**3.9**	ug/m3	1.0	0.38	2.01		03/05/17 00:56	67-66-3	
Chloromethane	**1.2**	ug/m3	0.84	0.22	2.01		03/05/17 00:56	74-87-3	
Chloropentafluoroethane	**<6.5**	ug/m3	6.5	6.5	2.01		03/05/17 00:56	76-15-3	
Cyclohexane	**1.1J**	ug/m3	1.4	0.64	2.01		03/05/17 00:56	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.9**	ug/m3	9.9	9.9	2.01		03/05/17 00:56	96-12-8	
Dibromochloromethane	**<1.7**	ug/m3	3.5	1.7	2.01		03/05/17 00:56	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.1	1.6	2.01		03/05/17 00:56	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 00:56	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.5	1.1	2.01		03/05/17 00:56	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 00:56	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	2.0	0.96	2.01		03/05/17 00:56	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.6	0.32	2.01		03/05/17 00:56	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/m3	0.82	0.41	2.01		03/05/17 00:56	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.6	0.48	2.01		03/05/17 00:56	75-35-4	
cis-1,2-Dichloroethene	**<0.49**	ug/m3	1.6	0.49	2.01		03/05/17 00:56	156-59-2	
trans-1,2-Dichloroethene	**<0.77**	ug/m3	1.6	0.77	2.01		03/05/17 00:56	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/m3	1.9	0.54	2.01		03/05/17 00:56	78-87-5	
cis-1,3-Dichloropropene	**<0.74**	ug/m3	1.8	0.74	2.01		03/05/17 00:56	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/m3	1.8	0.52	2.01		03/05/17 00:56	10061-02-6	
Dichlorotetrafluoroethane	**<0.62**	ug/m3	2.9	0.62	2.01		03/05/17 00:56	76-14-2	
Freon 123	**<6.4**	ug/m3	6.4	6.4	2.01		03/05/17 00:56	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.71**	ug/m3	7.4	0.71	2.01		03/05/17 00:56	123-91-1	
Ethylbenzene	**<0.85**	ug/m3	1.8	0.85	2.01		03/05/17 00:56	100-41-4	
4-Ethyltoluene	**<0.38**	ug/m3	2.0	0.38	2.01		03/05/17 00:56	622-96-8	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	4.4	1.3	2.01		03/05/17 00:56	87-68-3	
n-Hexane	**2.4**	ug/m3	1.4	0.72	2.01		03/05/17 00:56	110-54-3	
2-Hexanone	**1.0J**	ug/m3	8.4	0.82	2.01		03/05/17 00:56	591-78-6	
Isopropylbenzene (Cumene)	**<0.28**	ug/m3	5.0	0.28	2.01		03/05/17 00:56	98-82-8	
Methyl acetate	**<3.1**	ug/m3	3.1	3.1	2.01		03/05/17 00:56	79-20-9	
Methylcyclohexane	**<0.49**	ug/m3	1.6	0.49	2.01		03/05/17 00:56	108-87-2	
Methylene Chloride	**5.9J**	ug/m3	7.1	1.1	2.01		03/05/17 00:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.44**	ug/m3	8.4	0.44	2.01		03/05/17 00:56	108-10-1	
Methyl-tert-butyl ether	**<0.61**	ug/m3	7.4	0.61	2.01		03/05/17 00:56	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D
Report Date: 05-Mar-2017 16:04

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06336.D
Lab Smp Id: 10379458009
Inj Date : 05-MAR-2017 00:56
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 36
Dil Factor: 2.01000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.010	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.002	3.018	(0.536)	15288	2.04767	4.12(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.050	3.060	(0.545)	10546	0.21449	0.431	
6	Chloromethane	50	3.143	3.156	(0.561)	4143	0.28315	0.569	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.558	3.545	(0.635)	1737949	371.413	747(A)	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.651	3.674	(0.652)	3784	0.10838	0.218	
17	Acrolein	56	3.667	3.684	(0.655)	2865	0.80237	1.61(Q)	
18	Acetone	43	3.709	3.722	(0.662)	175970	8.70887	17.5	
19	Isopropyl Alcohol	45	3.780	3.767	(0.675)	419736	20.3684	40.9	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D
Report Date: 05-Mar-2017 16:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	3.970	3.957	(0.709)	4889	0.18456	0.371(M)	
	25 Methylene chloride	49	3.995	4.005	(0.714)	11954	0.83821	1.68	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.391	(0.792)	13391	0.57168	1.15	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.491	(0.800)	397370	9.80763	9.81	
	33 Methyl Ethyl Ketone	72	4.548	4.555	(0.812)	5593	0.99509	2.00	
	34 n-Hexane	57	4.574	4.584	(0.817)	6673	0.32860	0.660(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.716	4.716	(0.842)	7855	0.30054	0.604(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.819	4.841	(0.860)	10261	0.38893	0.782	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.449	5.468	(0.973)	10762	0.26203	0.527	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.474	5.487	(0.978)	3094	0.15049	0.302(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1273487	10.0000		
	48 2,2,4-Trimethylpentane	57	5.757	5.770	(1.028)	9155	0.14391	0.289	
	49 Heptane	43	5.876	5.893	(1.049)	2768	0.12061	0.242	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1088112	9.54647	9.55	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.276)	23190	0.45087	0.906	
	62 Methyl Butyl Ketone	43	7.378	7.372	(0.854)	3220	0.12226	0.246	
	63 n-Octane	43	7.561	7.584	(0.875)	11706	0.41042	0.825(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.982	7.986	(0.924)	2744	0.09477	0.190	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	833877	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.072	9.082	(1.050)	12345	0.25645	0.515	
	71 n-Nonane	43	9.478	9.468	(1.097)	3251	0.13094	0.263(M)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.497	9.507	(1.099)	1204	0.10600	0.213(QMH)	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D
Report Date: 05-Mar-2017 16:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.381	11.378	(2.032)	12071	0.59924	1.20(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	491404	10.6977	10.7	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.159	14.156	(1.639)	4594	0.47248	0.950	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D
Report Date: 05-Mar-2017 16:04

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06336.D
Lab Smp Id: 10379458009
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

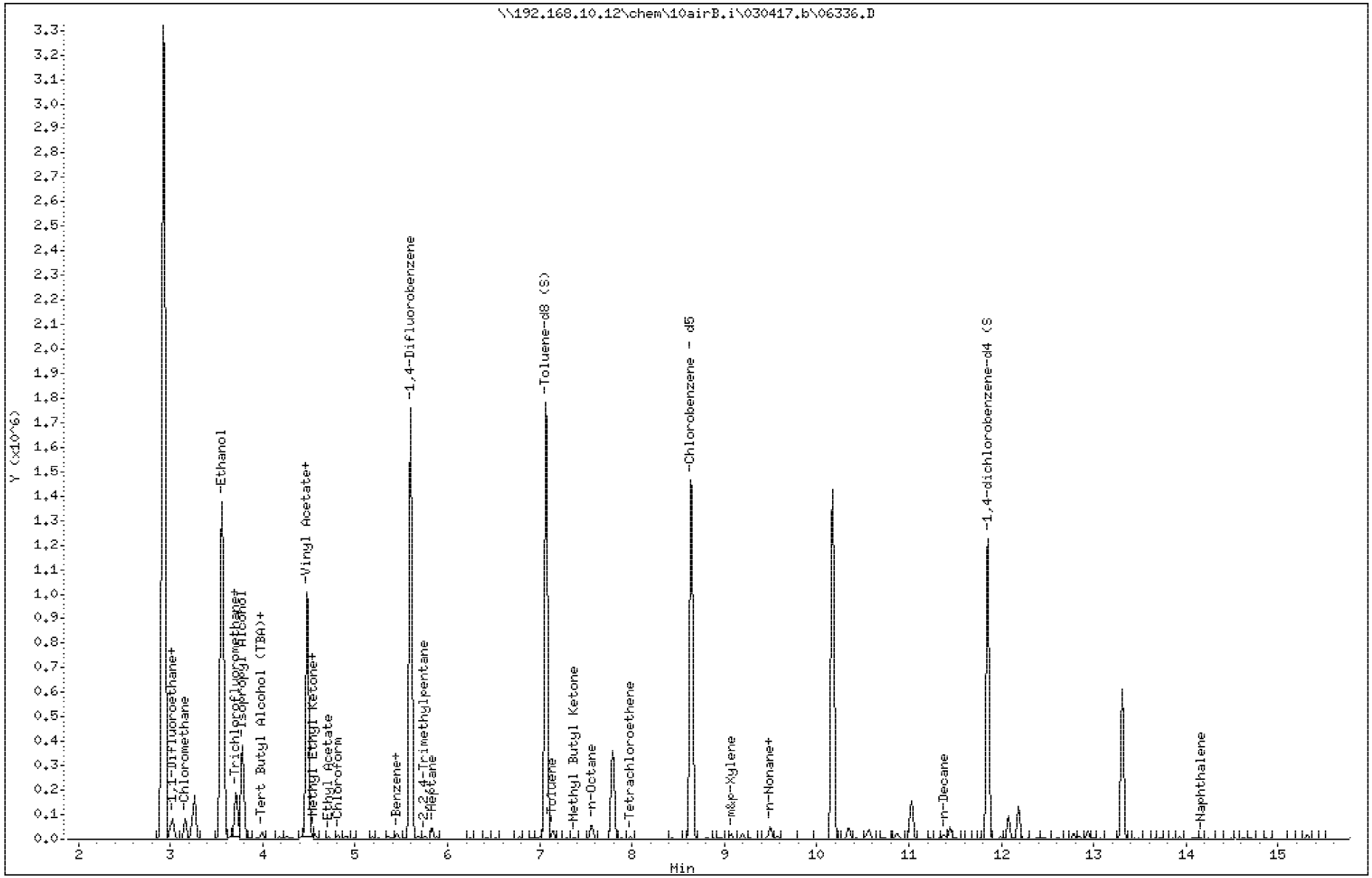
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1273487	-9.94
67 Chlorobenzene - d	951026	570616	1331436	833877	-12.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D
Date : 05-MAR-2017 00:56
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

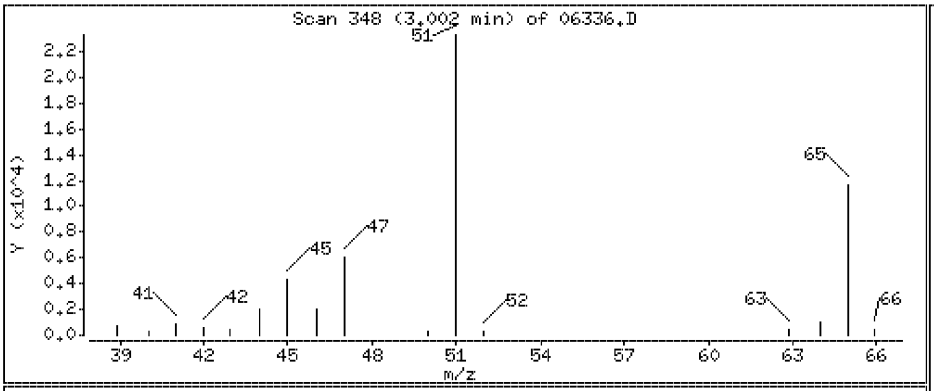
Operator: MJL

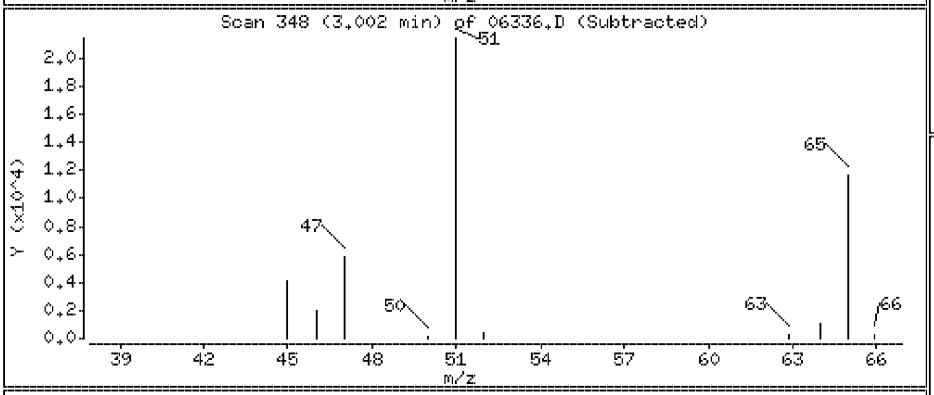
Column phase: J&W DB-5

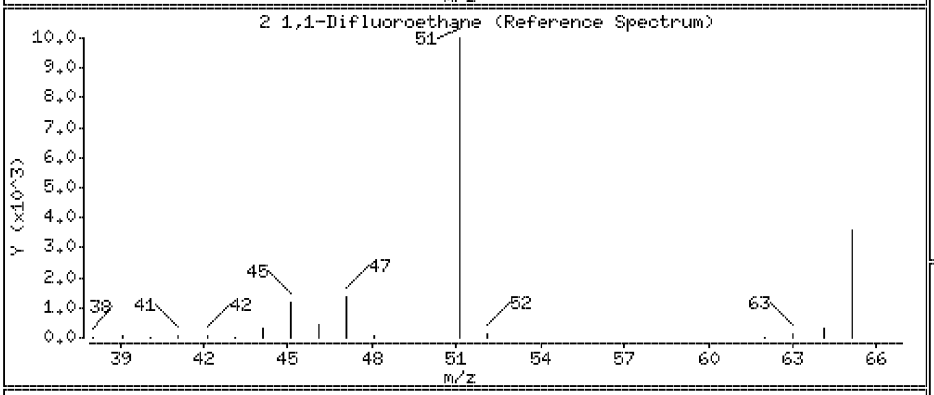
Column diameter: 0.32

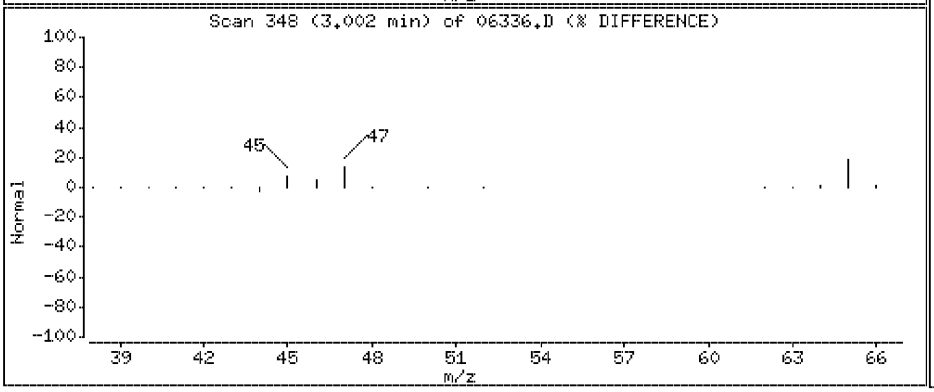
2 1,1-Difluoroethane

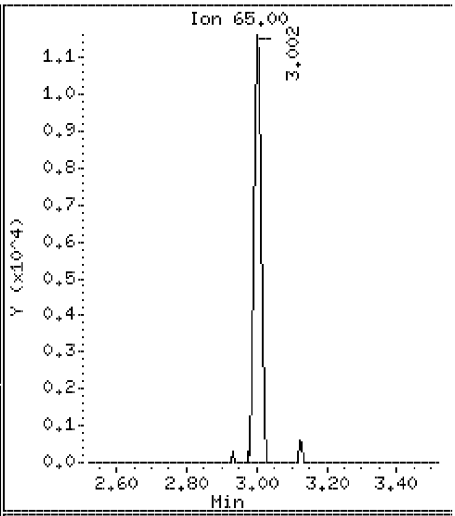
Concentration: 4.12 ppbv

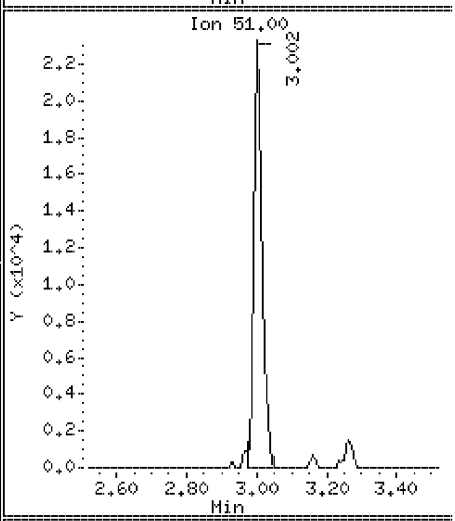


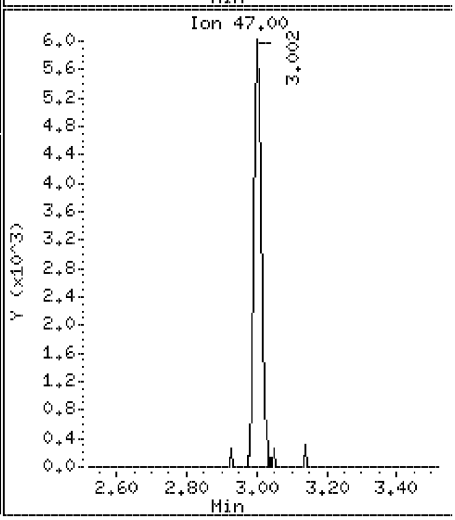












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

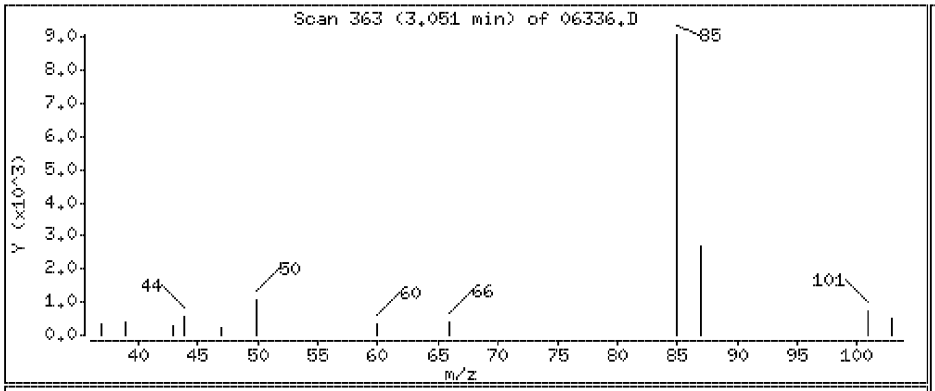
Operator: MJL

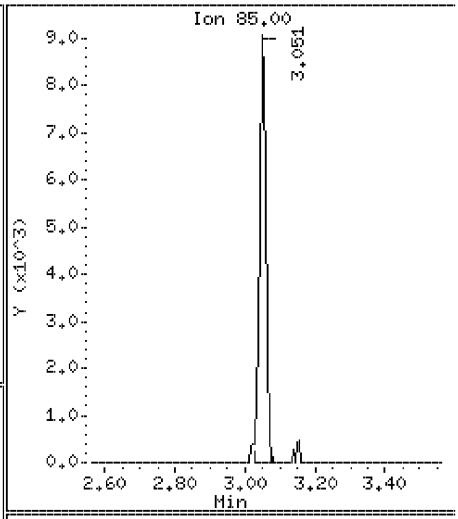
Column phase: J&W DB-5

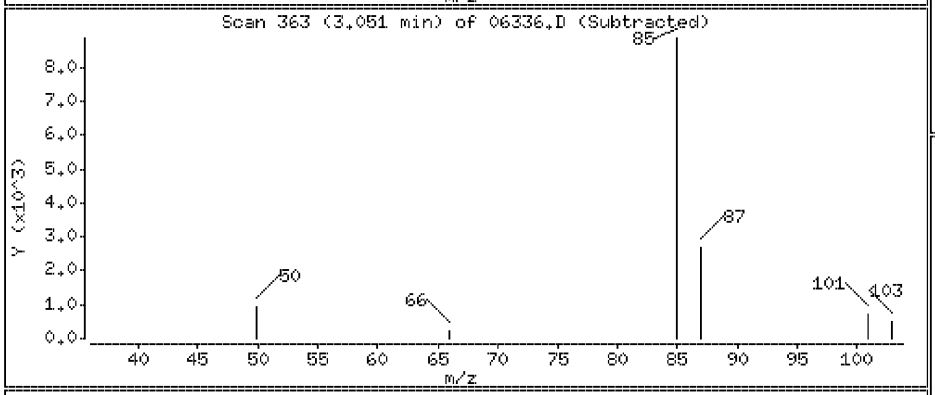
Column diameter: 0.32

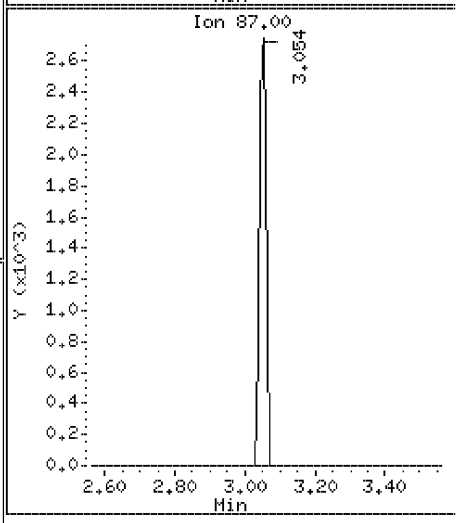
5 Dichlorodifluoromethane

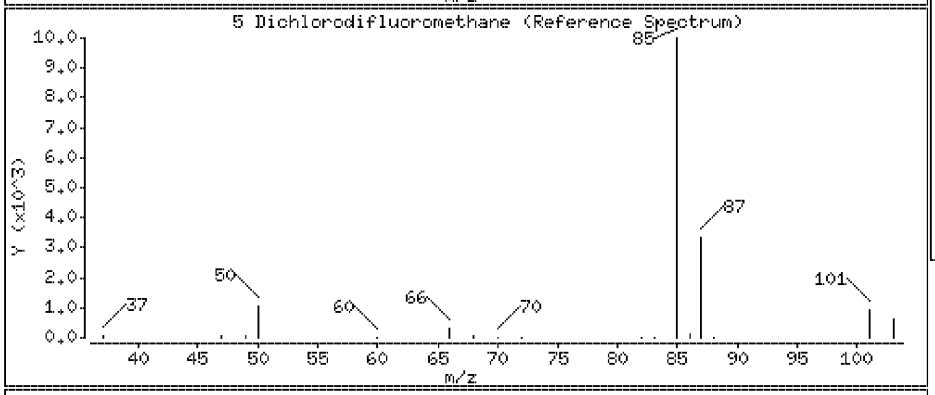
Concentration: 0.431 ppbv

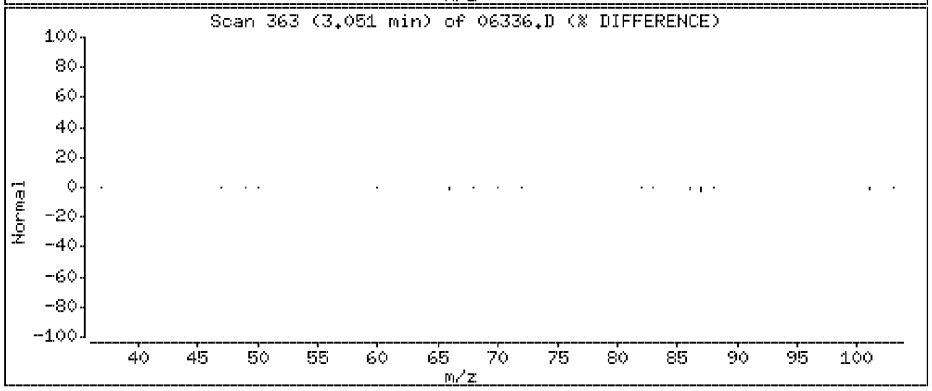












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

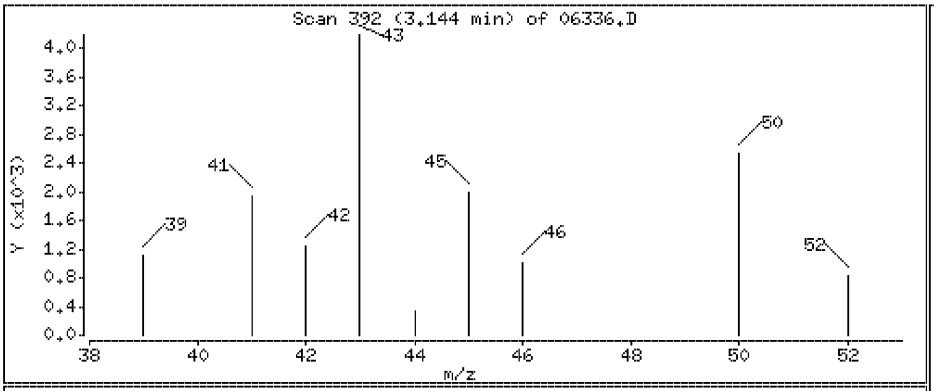
Operator: MJL

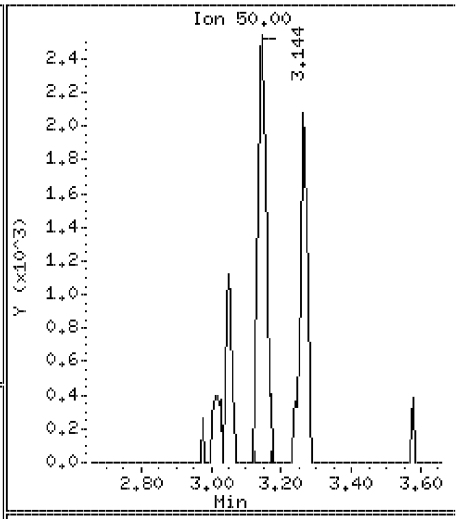
Column phase: J&W DB-5

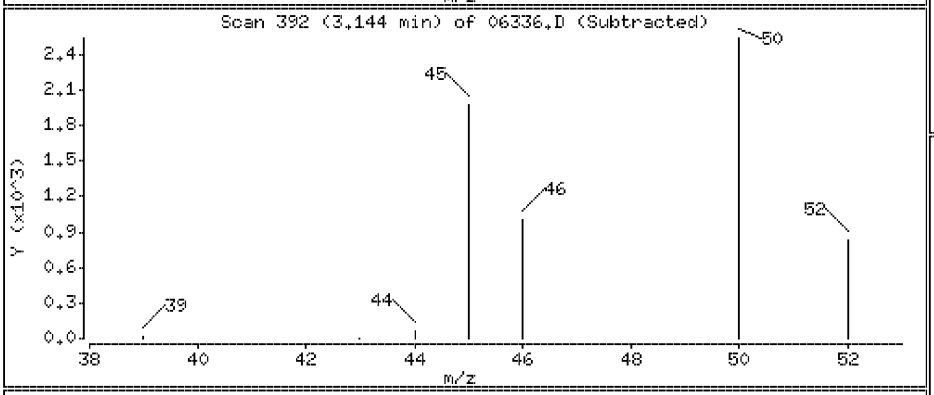
Column diameter: 0.32

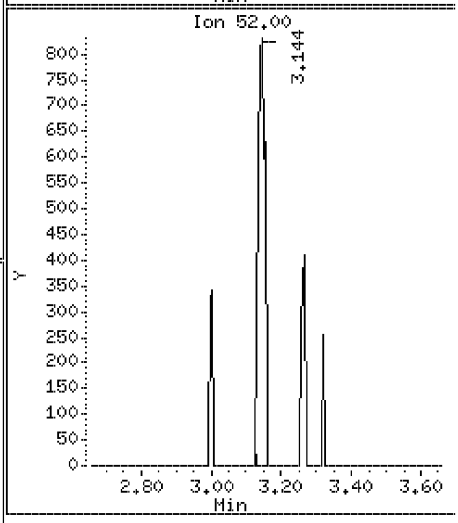
6 Chloromethane

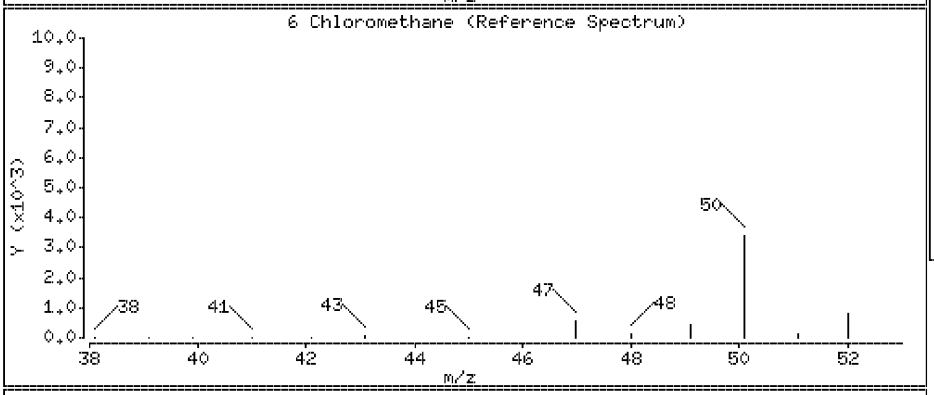
Concentration: 0.569 ppbv

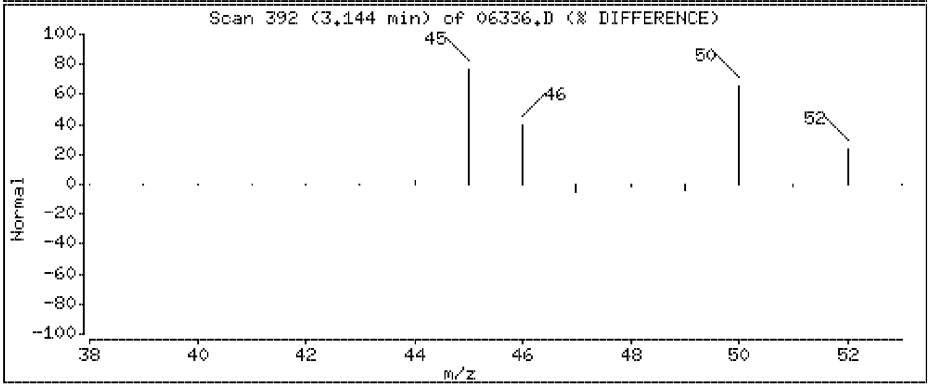












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

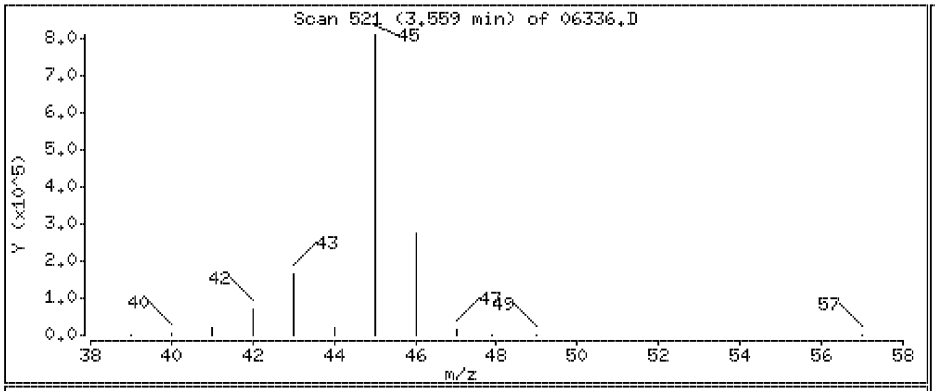
Operator: MJL

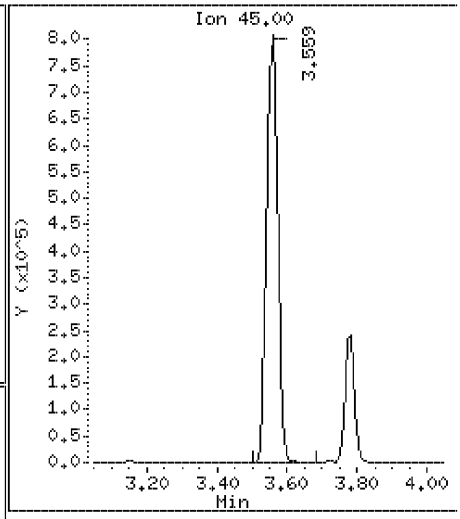
Column phase: J&W DB-5

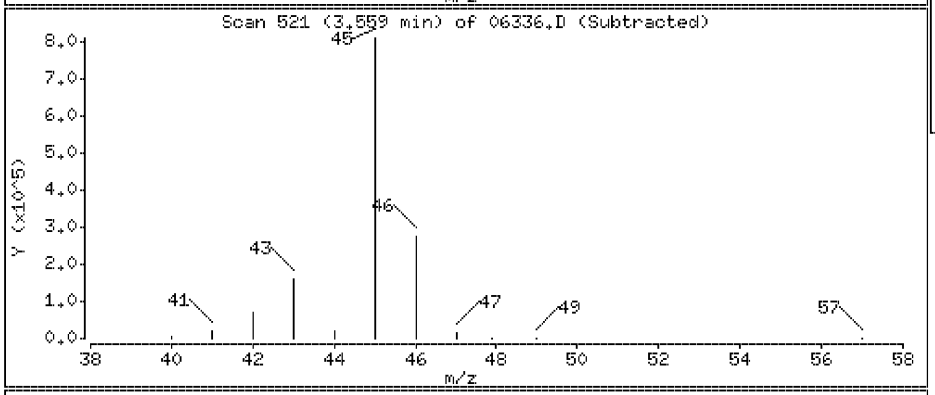
Column diameter: 0.32

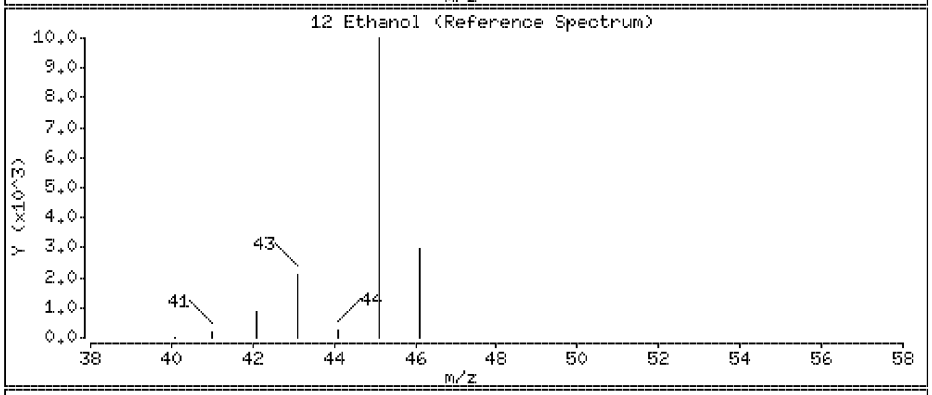
12 Ethanol

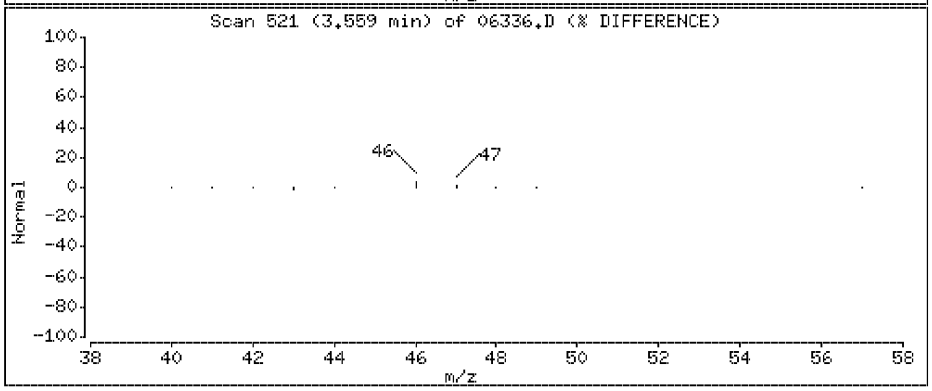
Concentration: 747 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

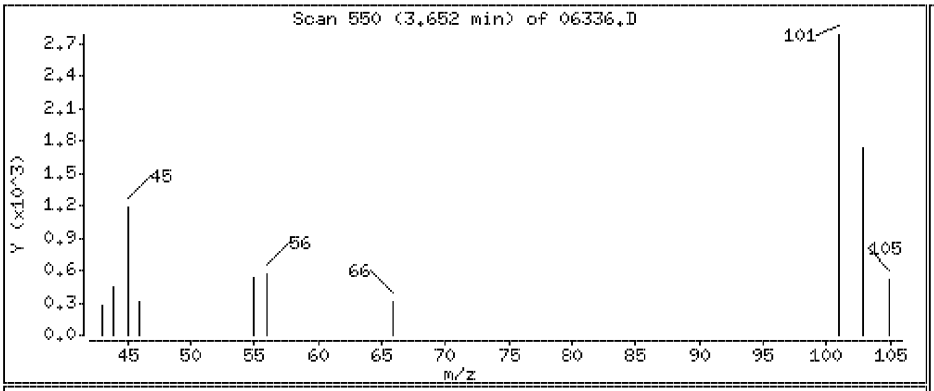
Operator: MJL

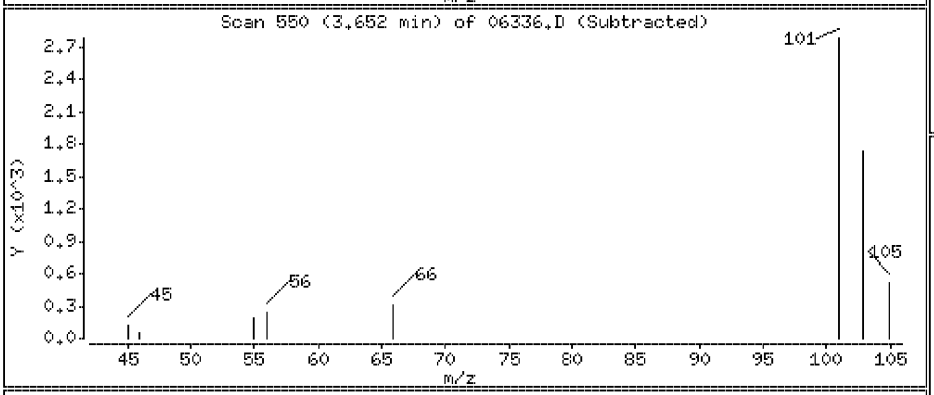
Column phase: J&W DB-5

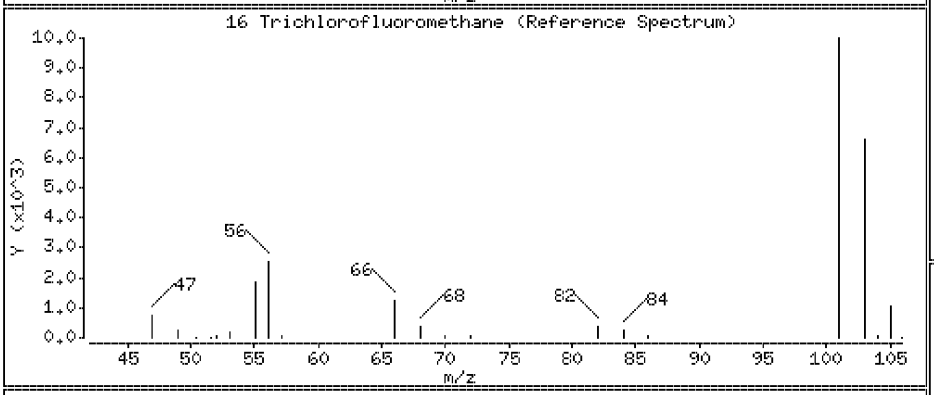
Column diameter: 0.32

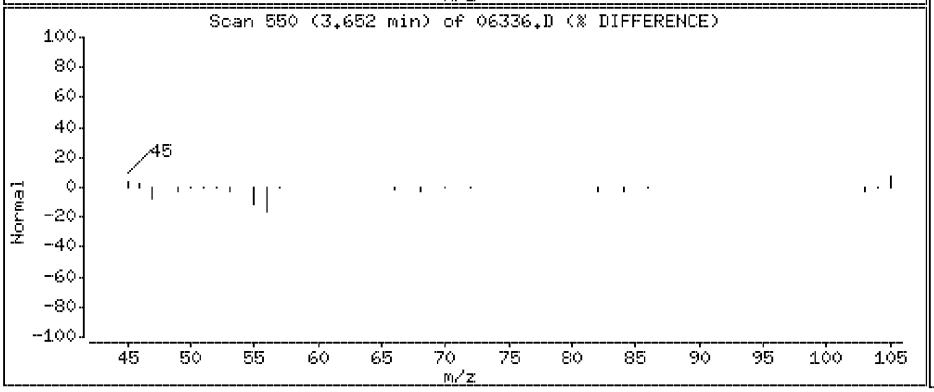
16 Trichlorofluoromethane

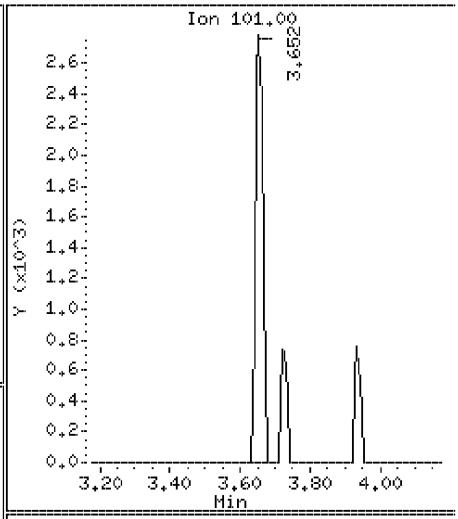
Concentration: 0.218 ppbv

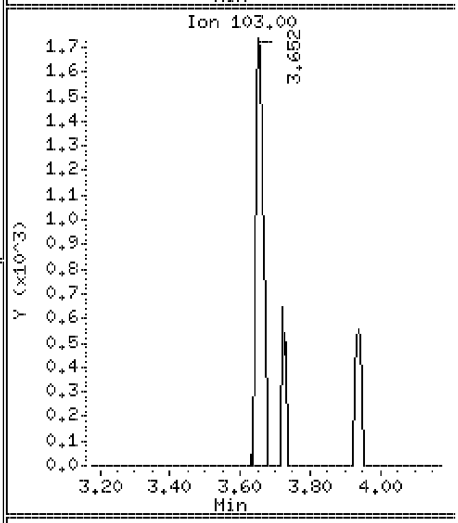


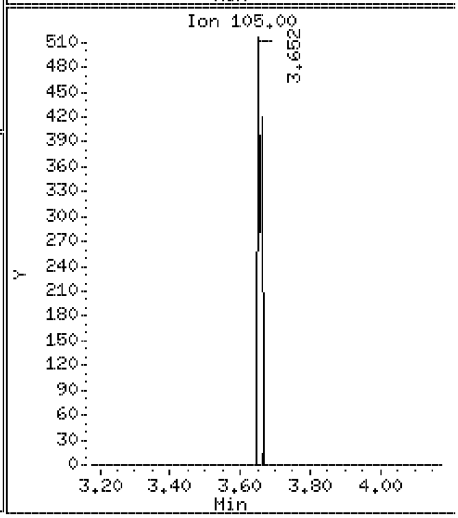












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

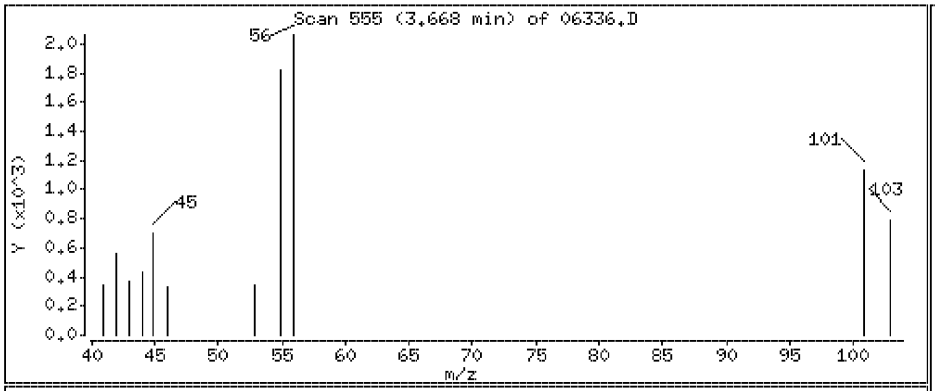
Operator: MJL

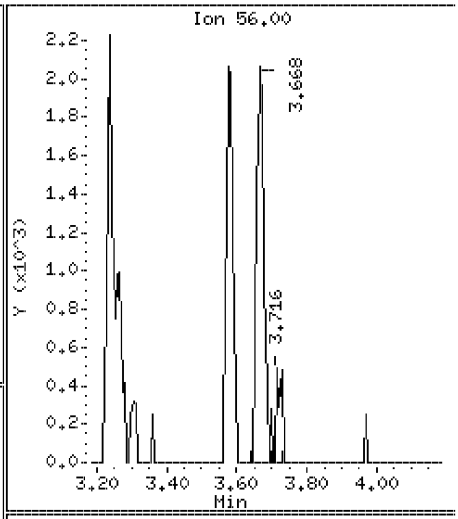
Column phase: J&W DB-5

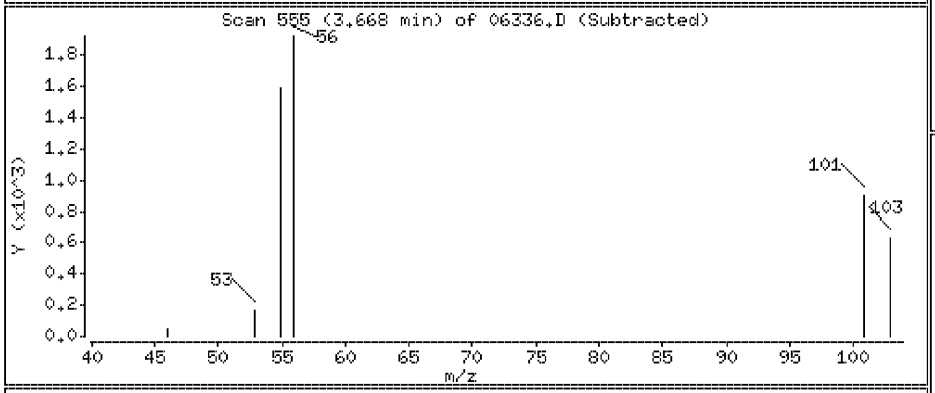
Column diameter: 0.32

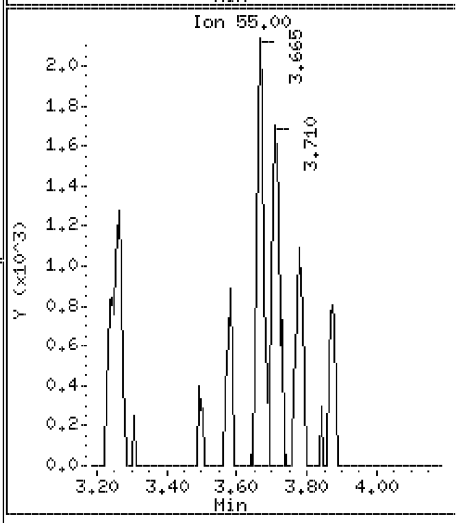
17 Acrolein

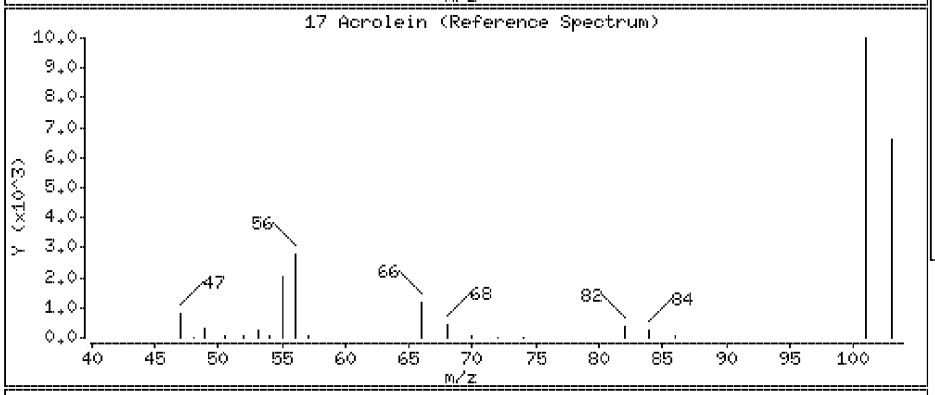
Concentration: 1.61 ppbv

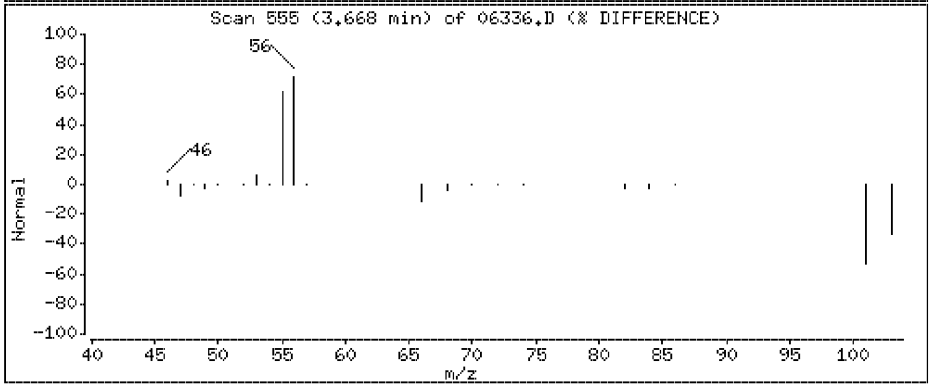












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

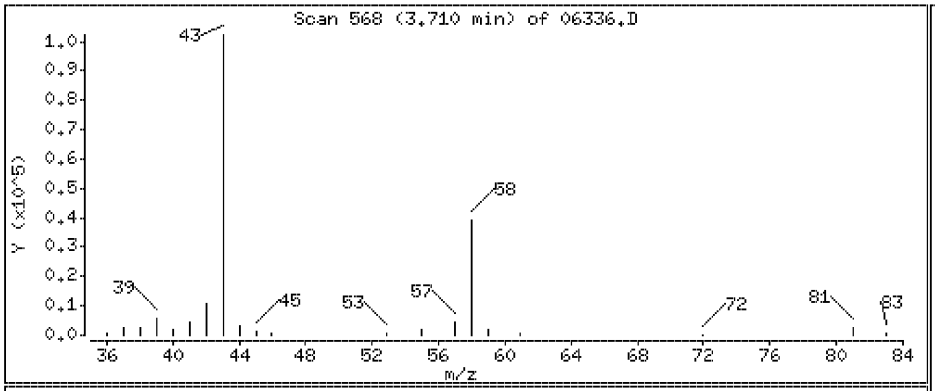
Operator: MJL

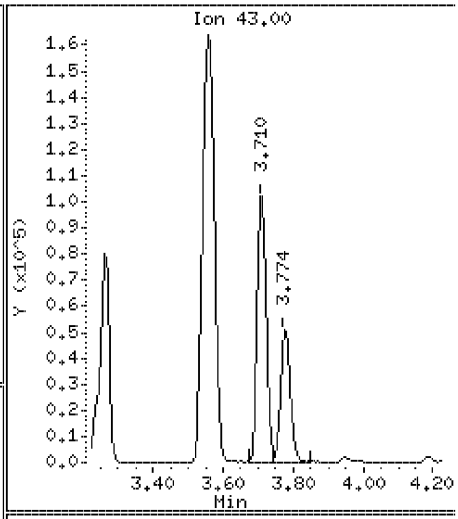
Column phase: J&W DB-5

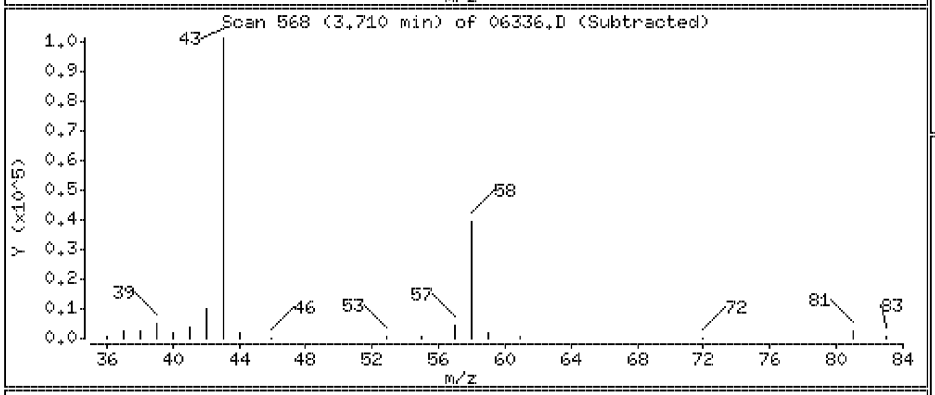
Column diameter: 0.32

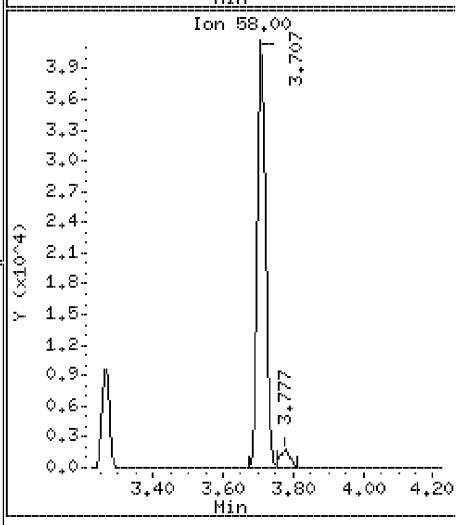
18 Acetone

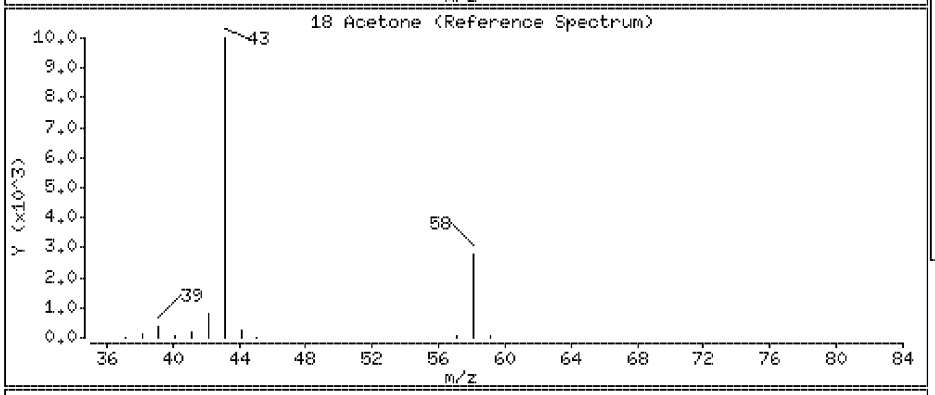
Concentration: 17.5 ppbv

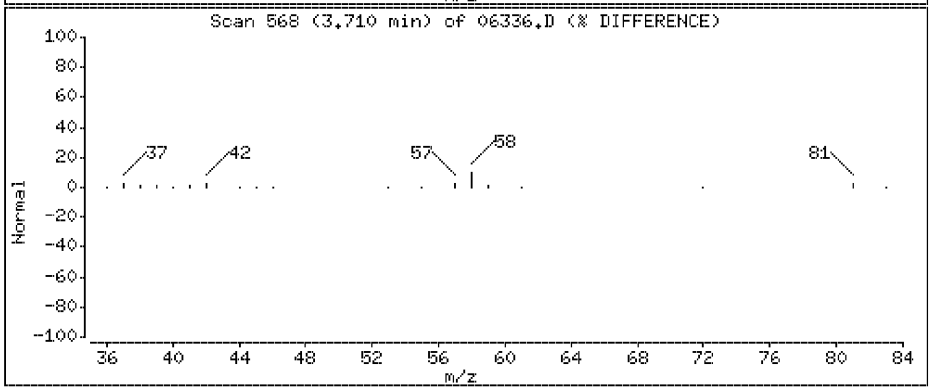












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

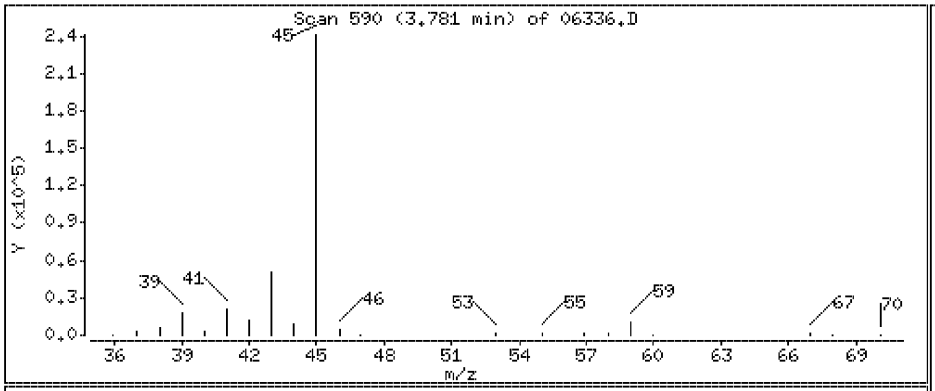
Operator: MJL

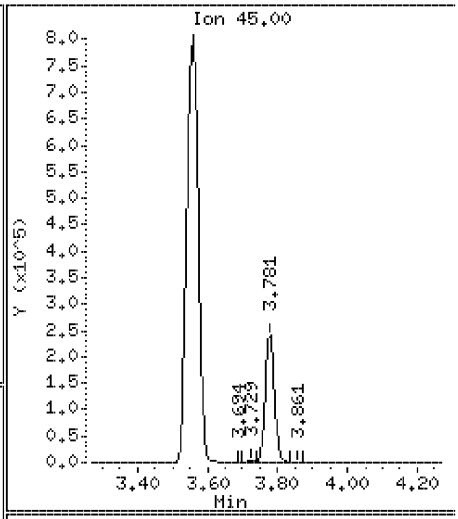
Column phase: J&W DB-5

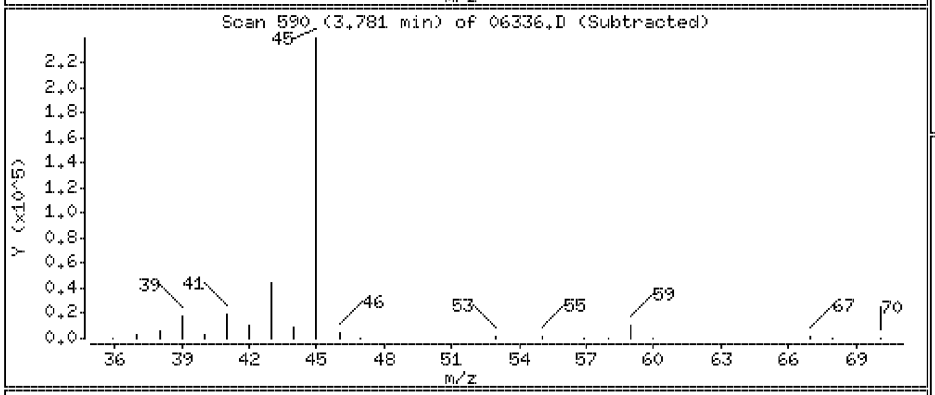
Column diameter: 0.32

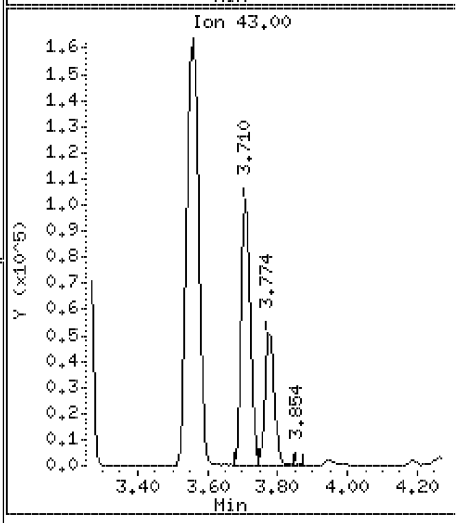
19 Isopropyl Alcohol

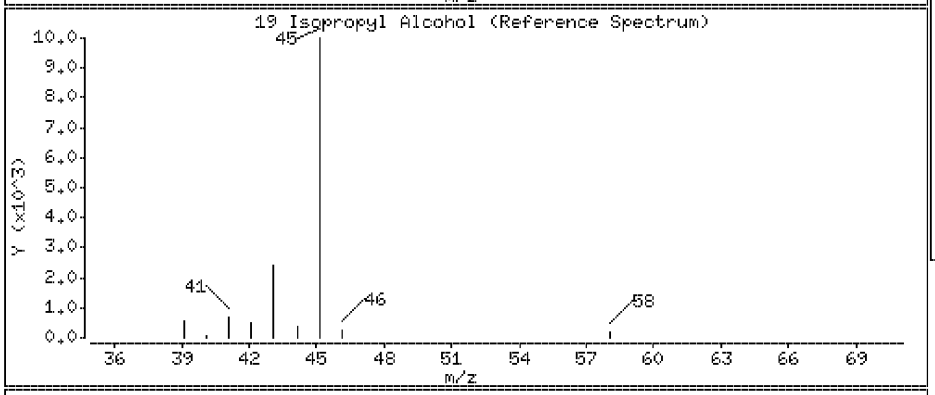
Concentration: 40.9 ppbv

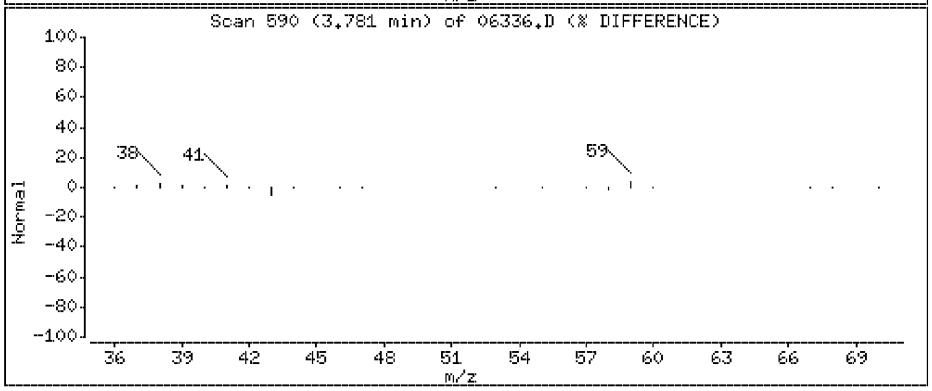












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

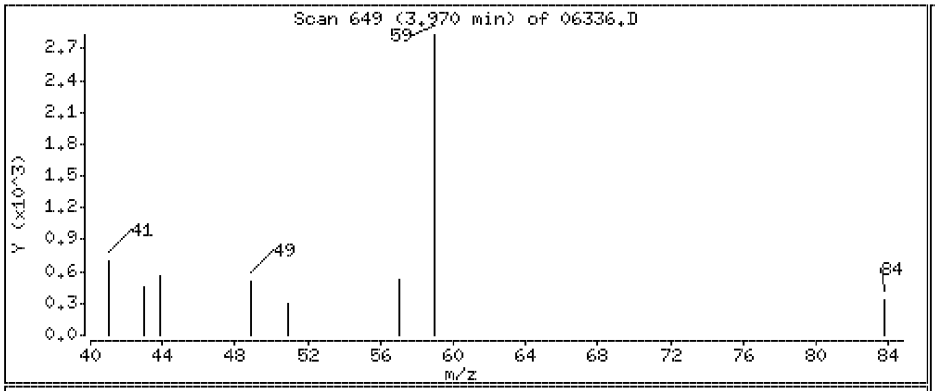
Operator: MJL

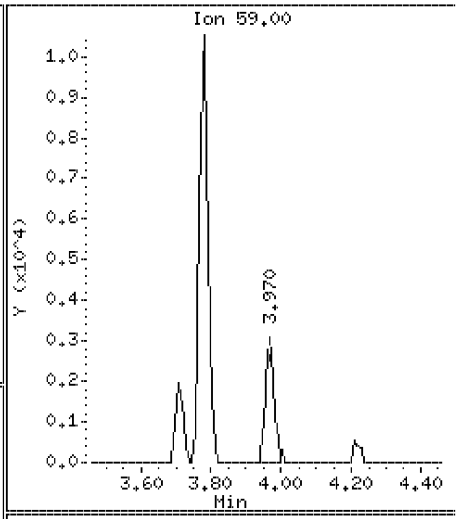
Column phase: J&W DB-5

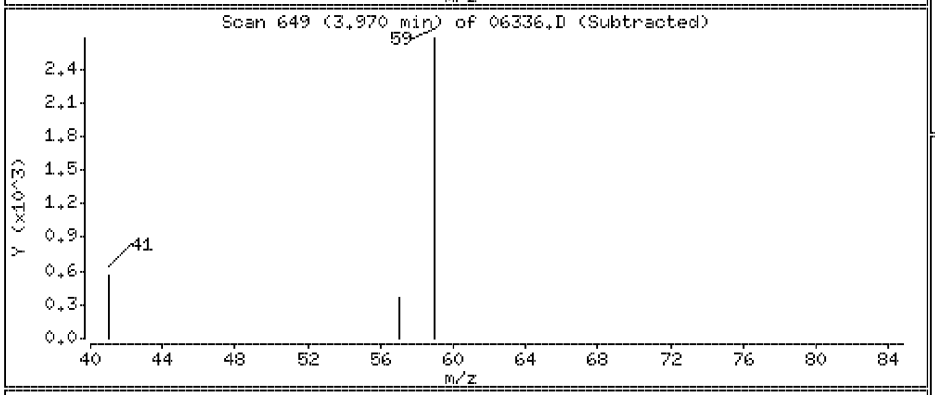
Column diameter: 0.32

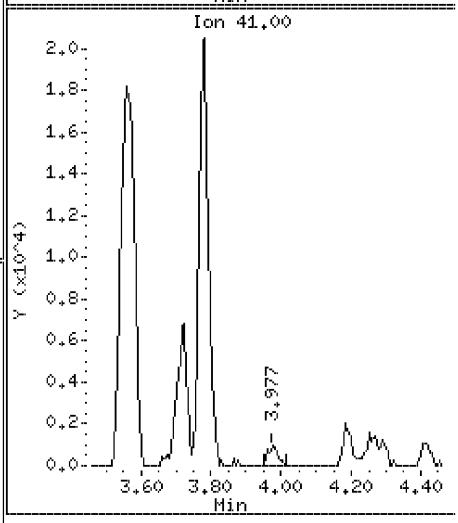
24 Tert Butyl Alcohol (TBA)

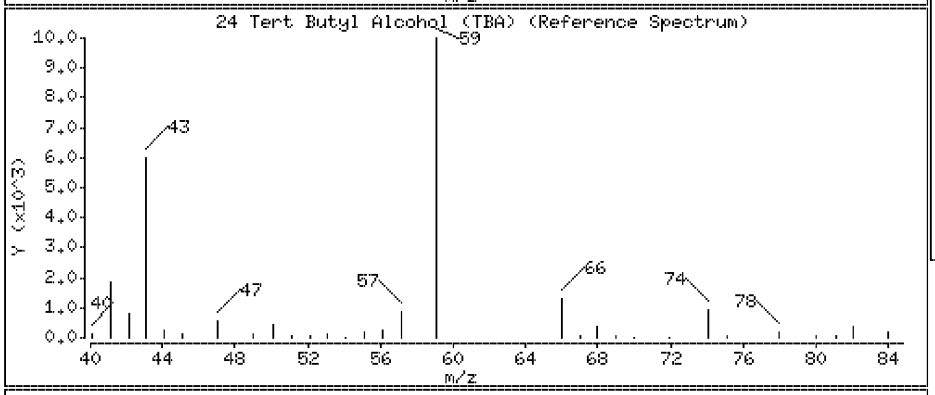
Concentration: 0.371 ppbv

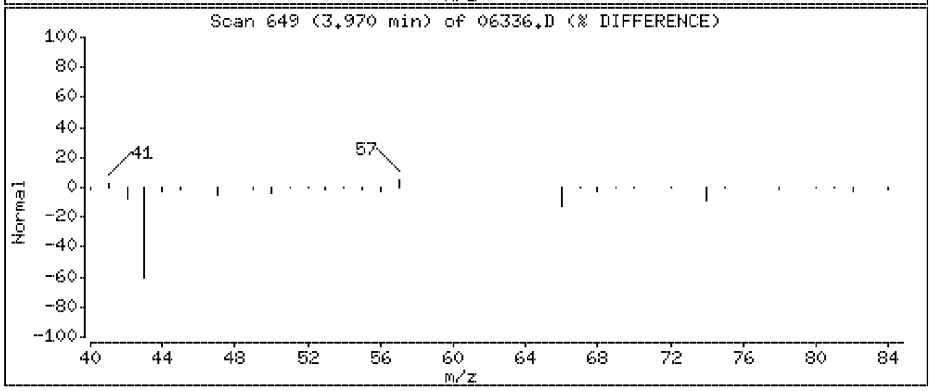












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

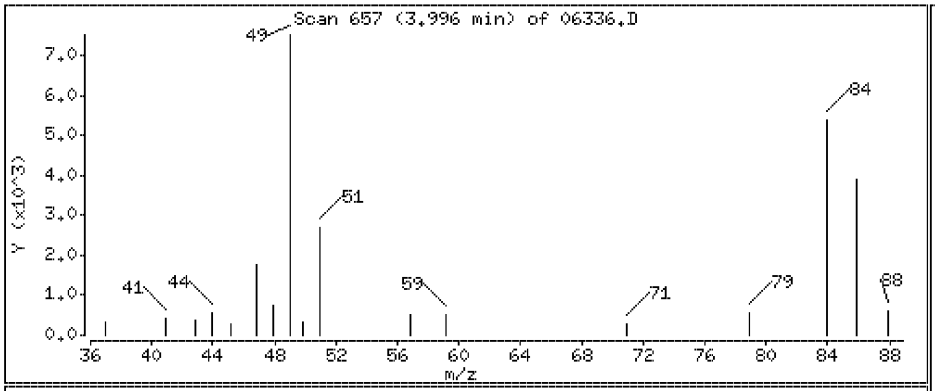
Operator: MJL

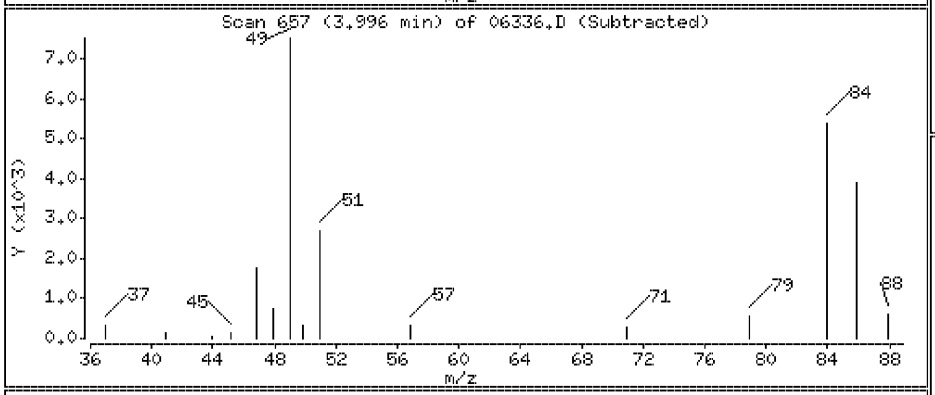
Column phase: J&W DB-5

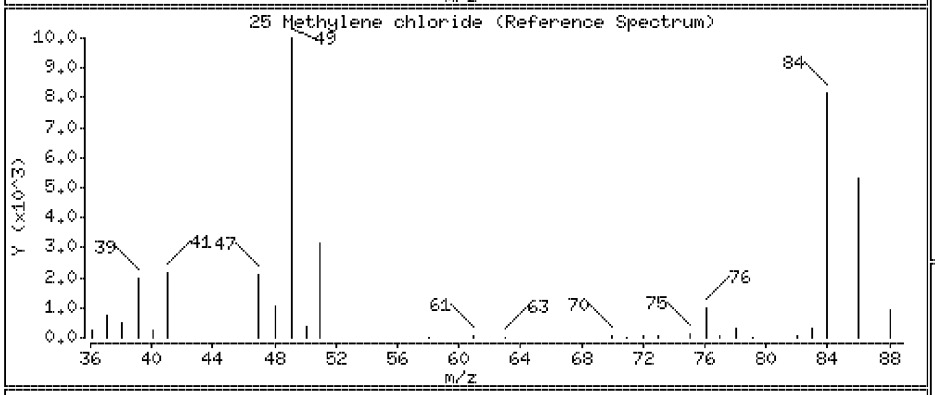
Column diameter: 0.32

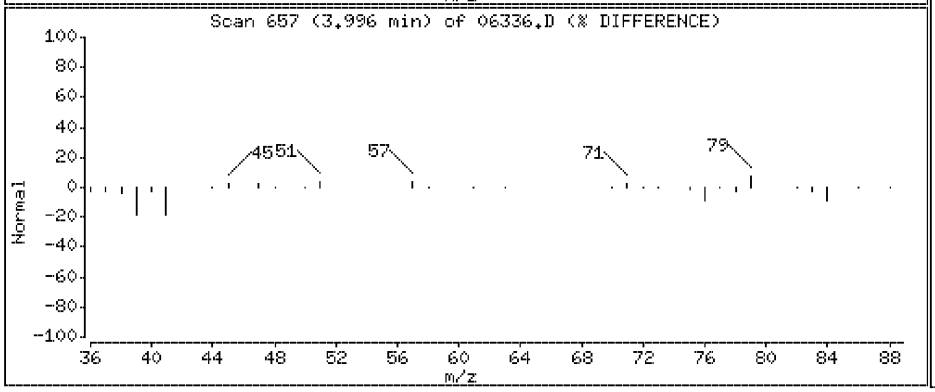
25 Methylene chloride

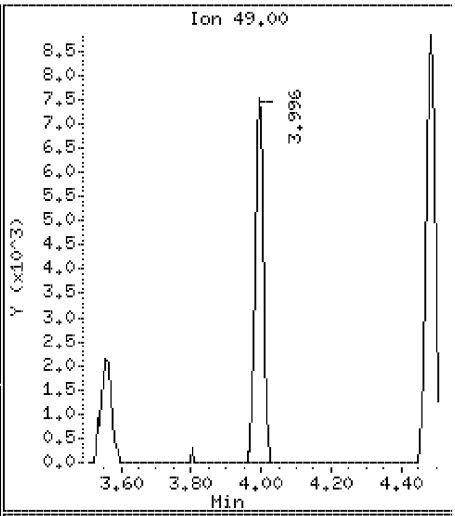
Concentration: 1.68 ppbv

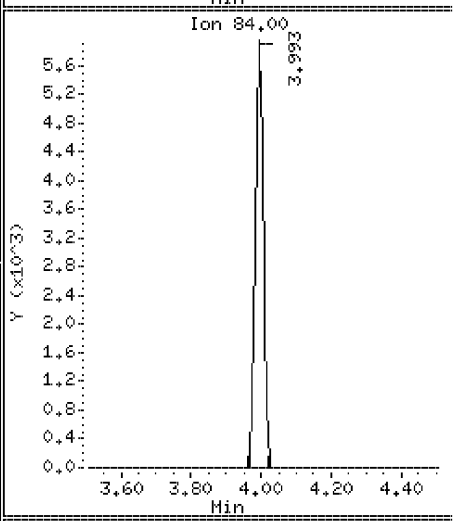


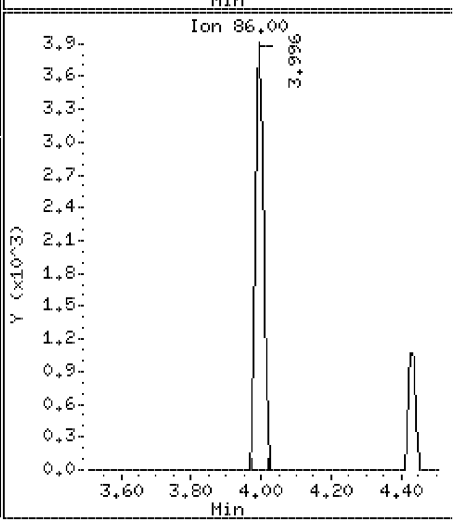












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

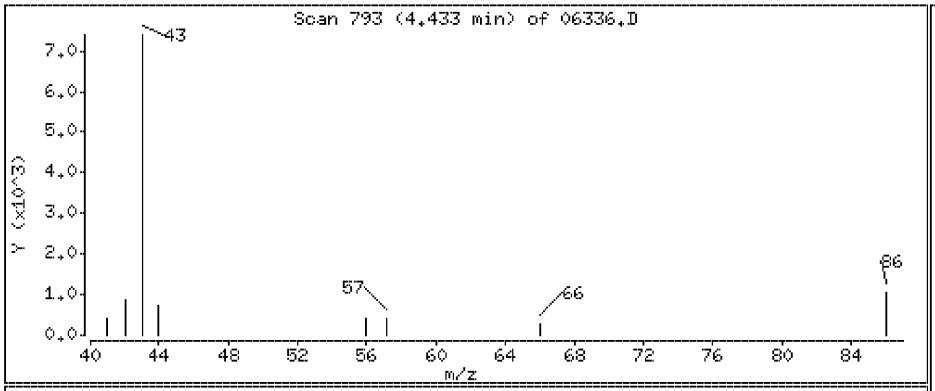
Operator: MJL

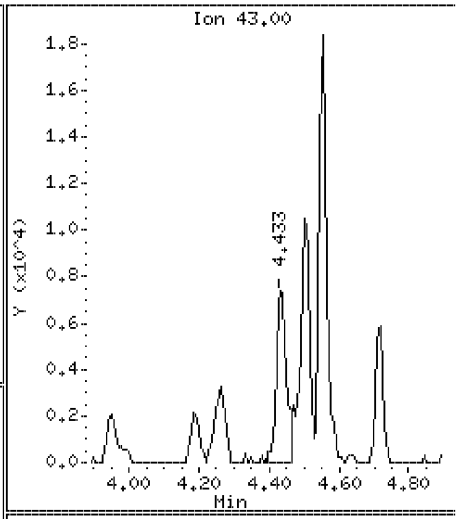
Column phase: J&W DB-5

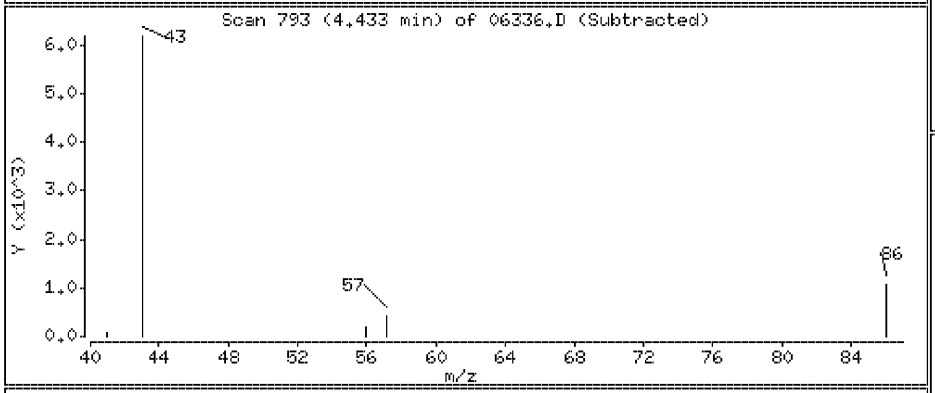
Column diameter: 0.32

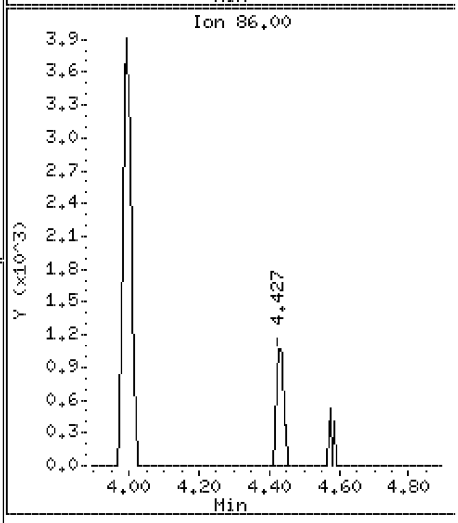
30 Vinyl Acetate

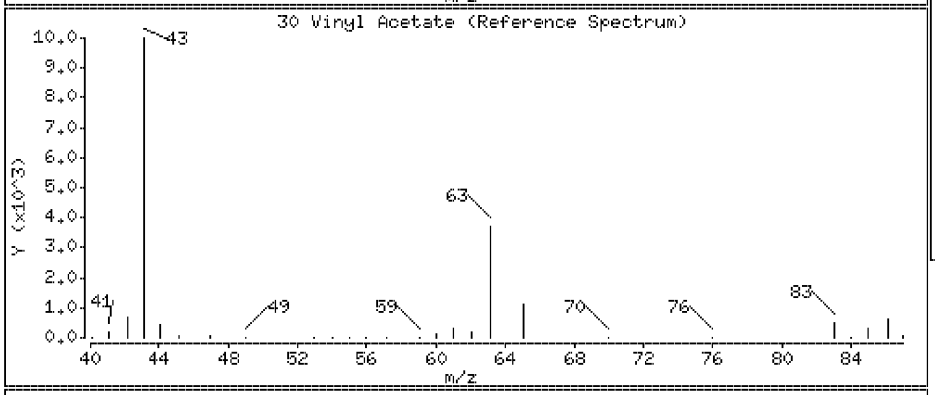
Concentration: 1.15 ppbv

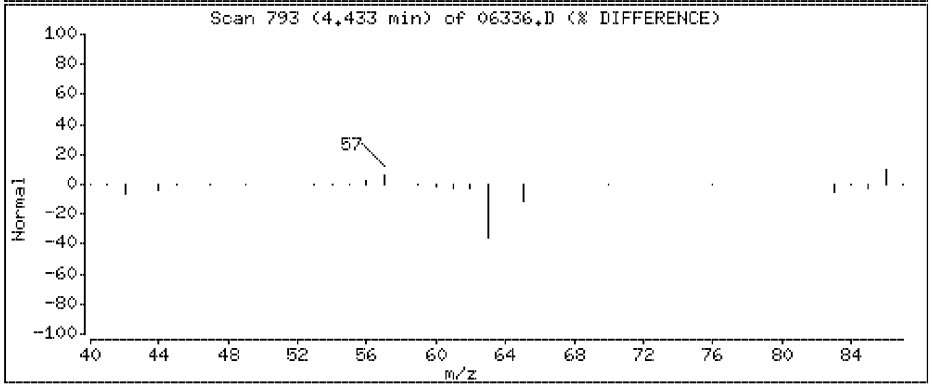












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

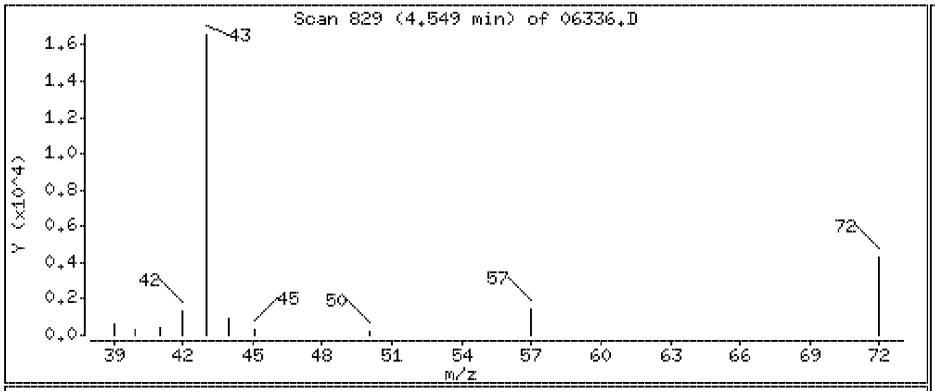
Operator: MJL

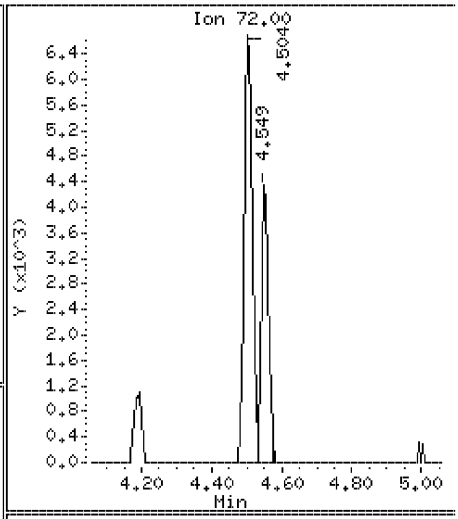
Column phase: J&W DB-5

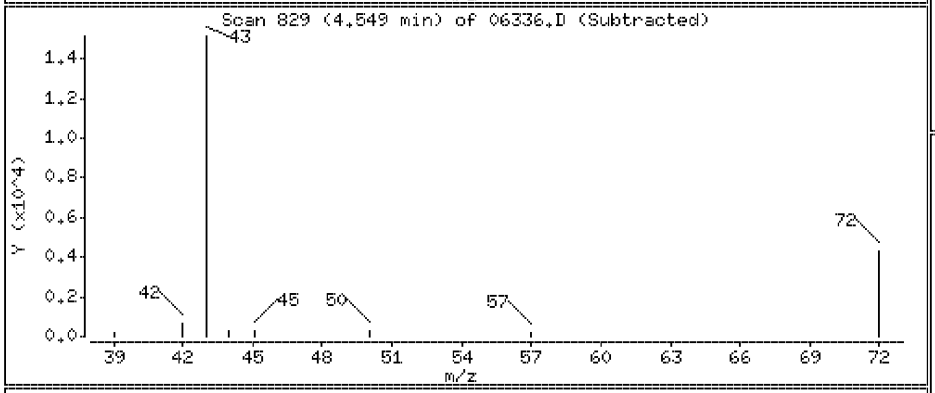
Column diameter: 0.32

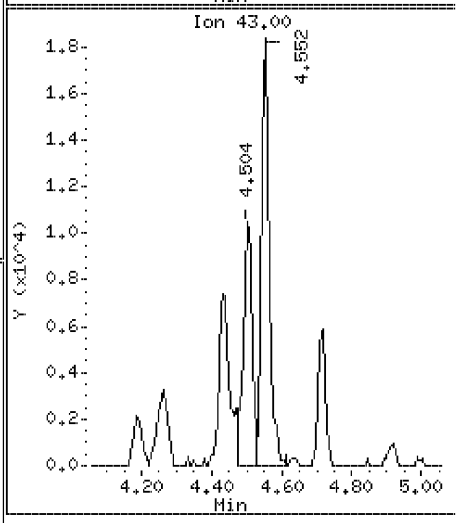
33 Methyl Ethyl Ketone

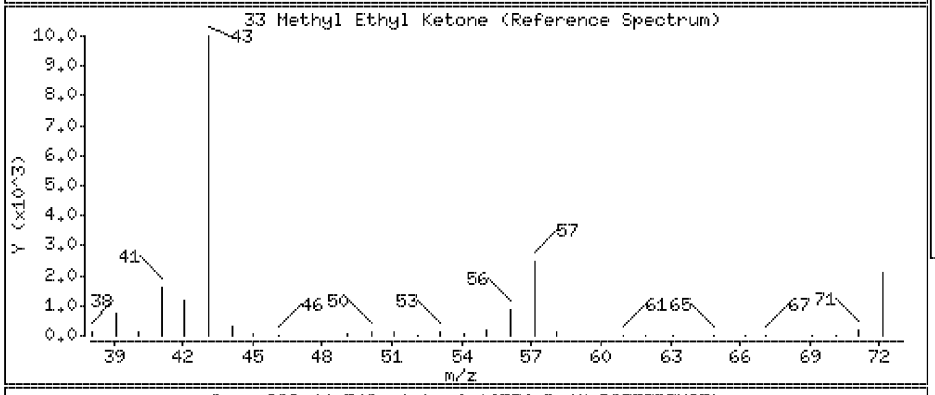
Concentration: 2.00 ppbv

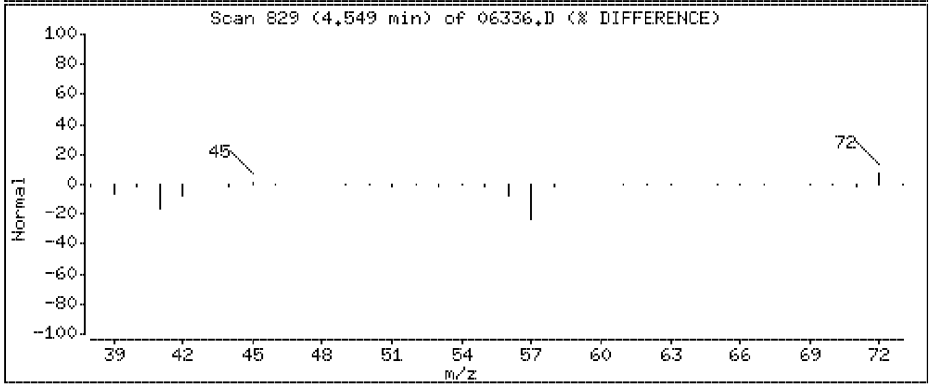












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

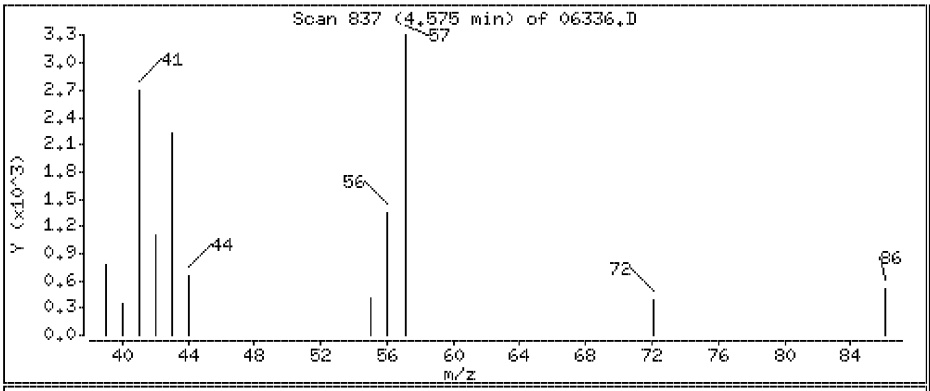
Operator: MJL

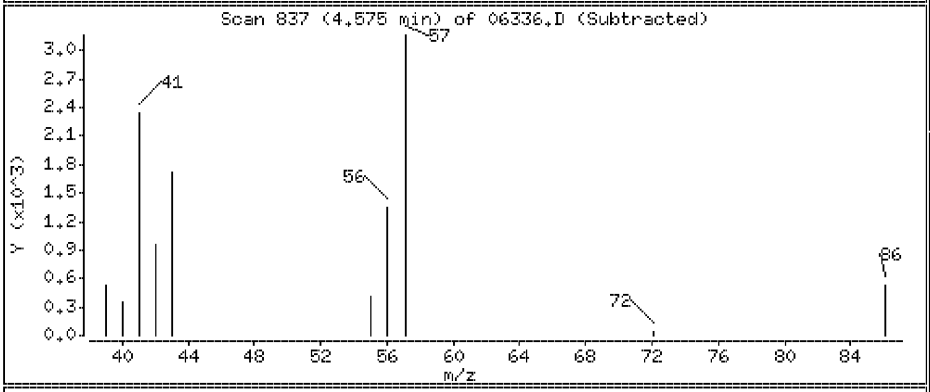
Column phase: J&W DB-5

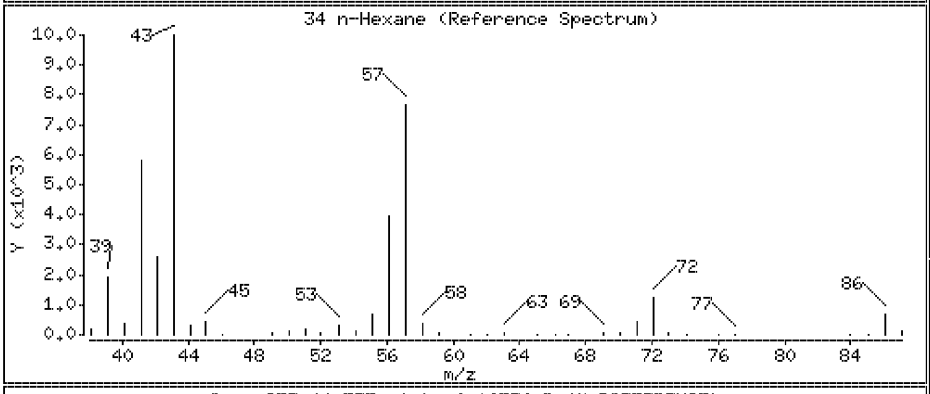
Column diameter: 0.32

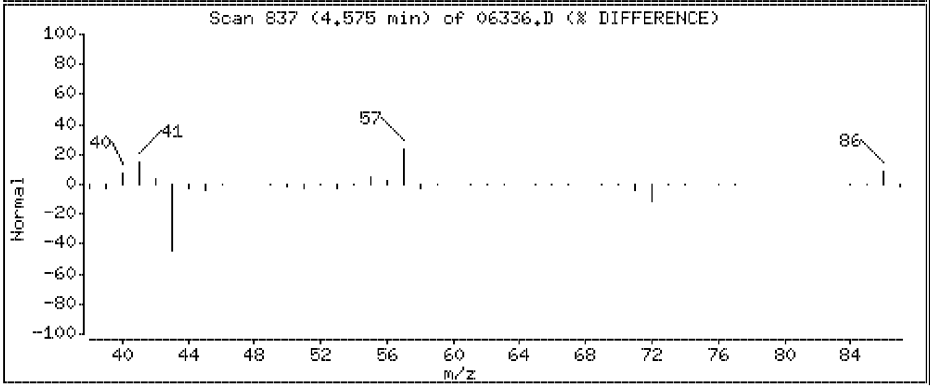
34 n-Hexane

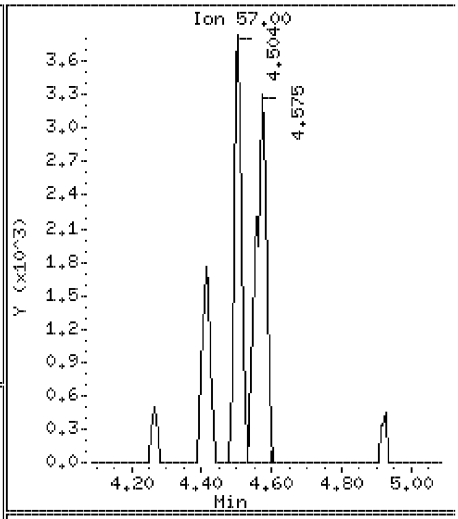
Concentration: 0.660 ppbv

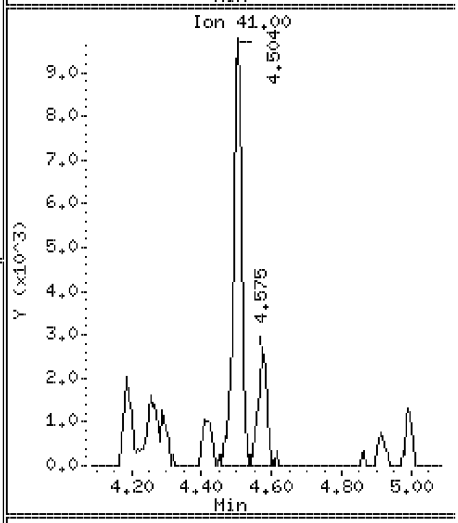


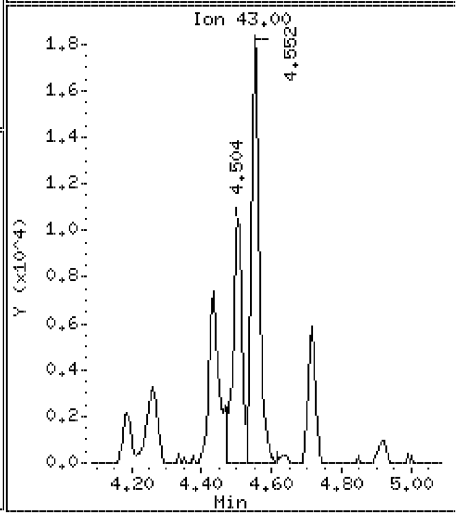












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

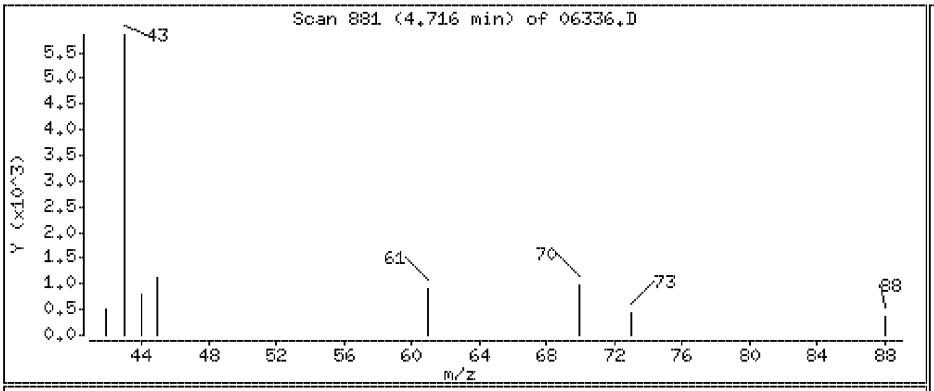
Operator: MJL

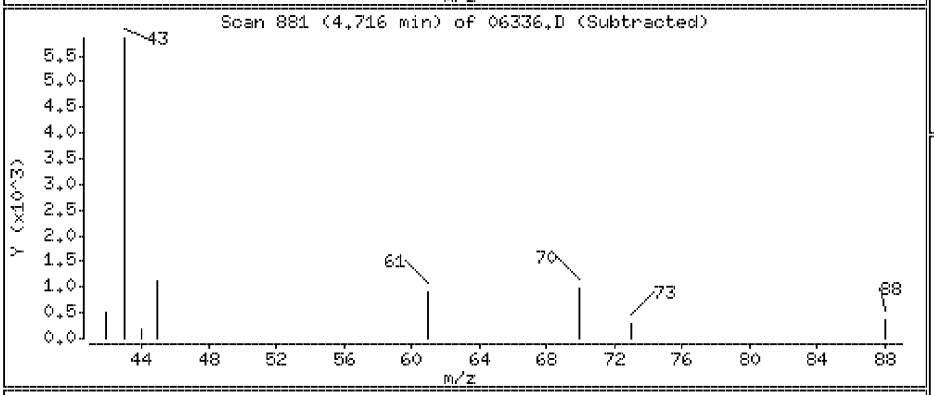
Column phase: J&W DB-5

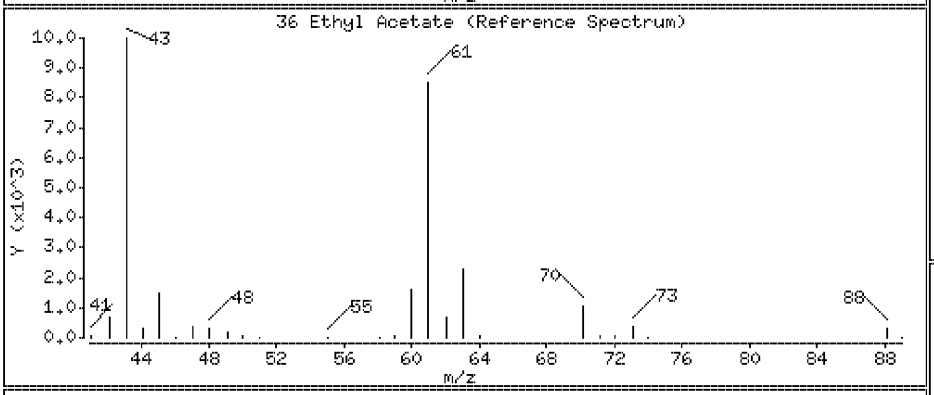
Column diameter: 0.32

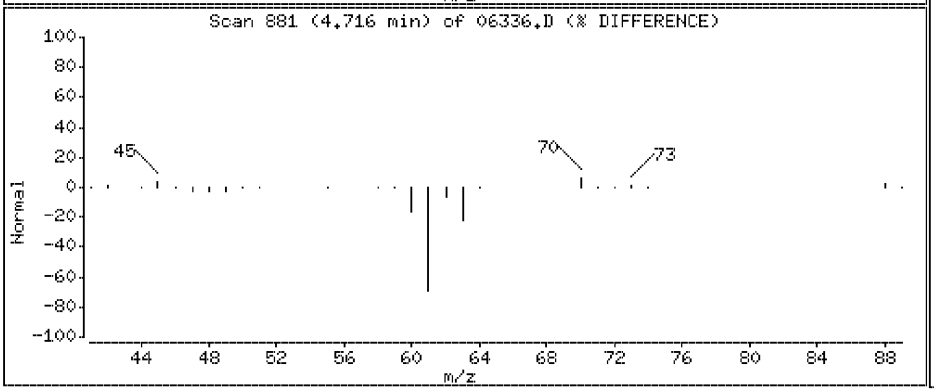
36 Ethyl Acetate

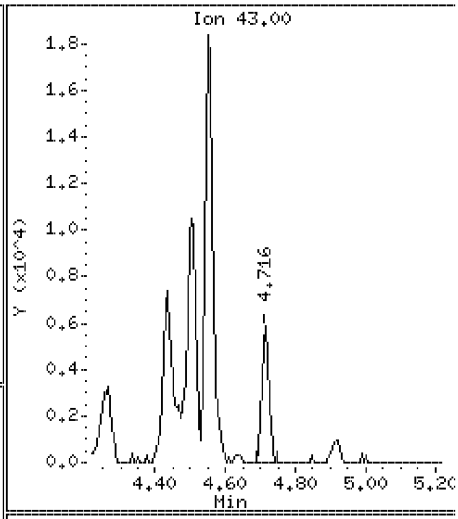
Concentration: 0.604 ppbv

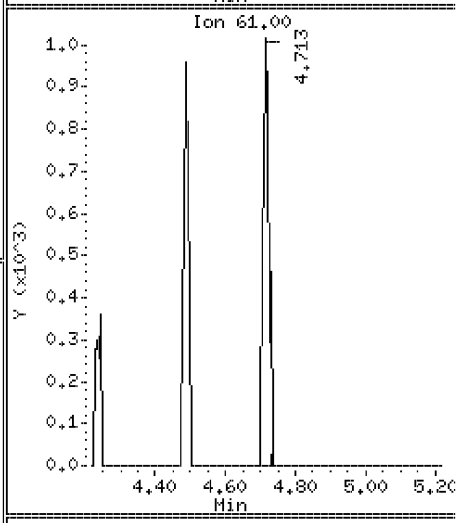


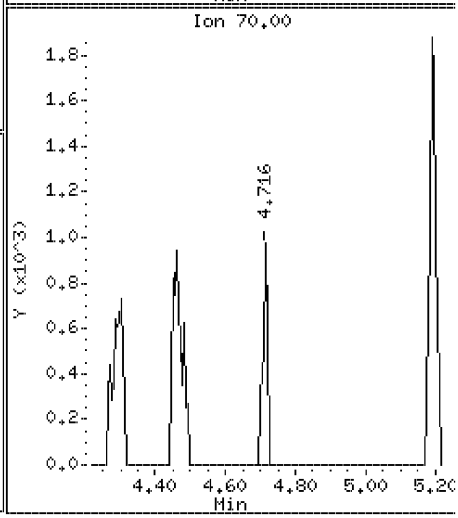












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

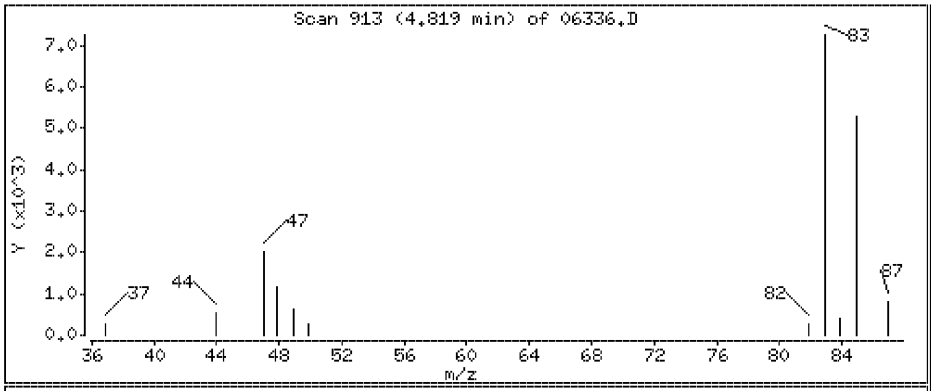
Operator: MJL

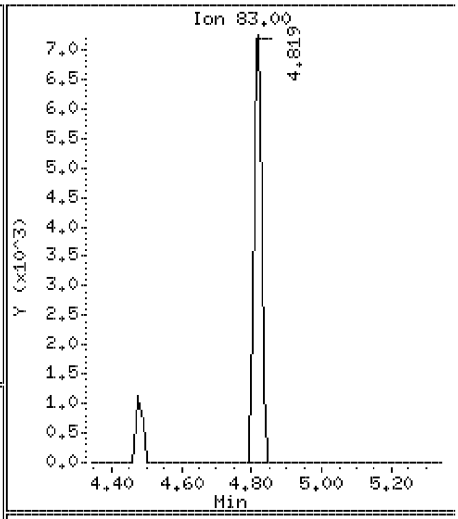
Column phase: J&W DB-5

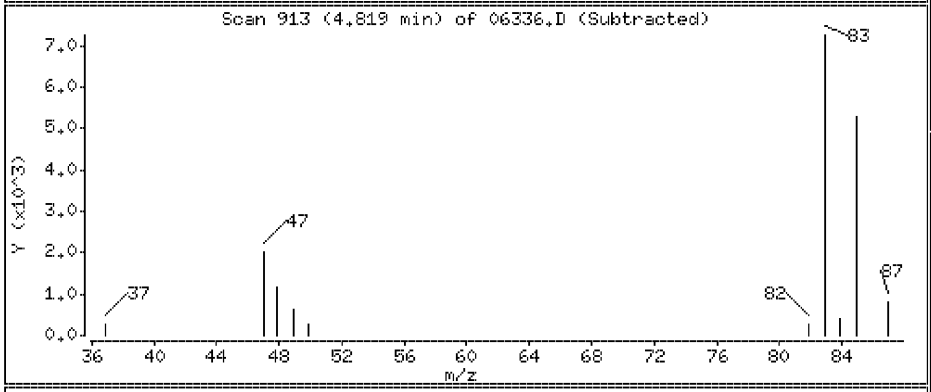
Column diameter: 0.32

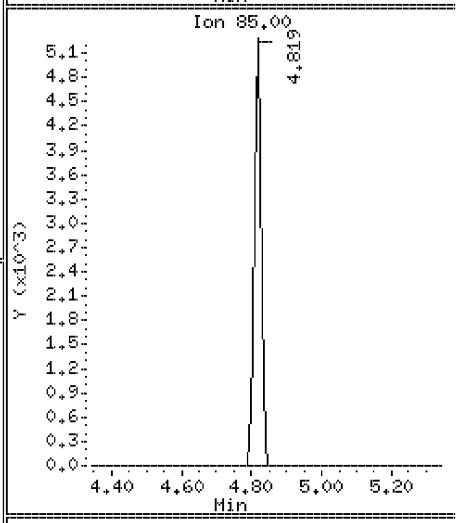
39 Chloroform

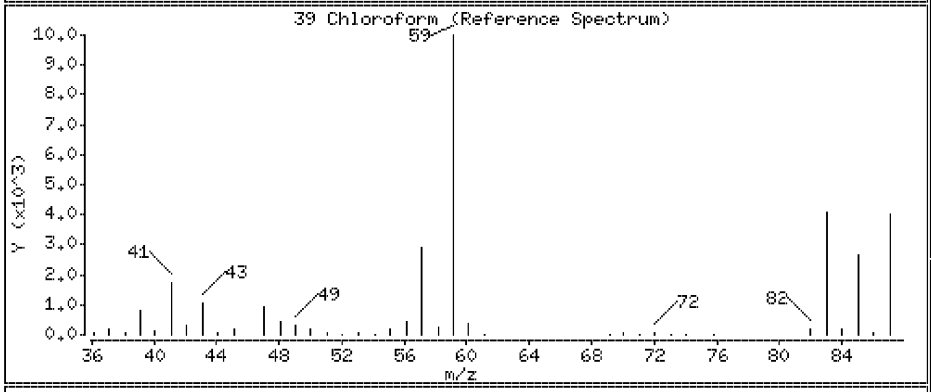
Concentration: 0.782 ppbv

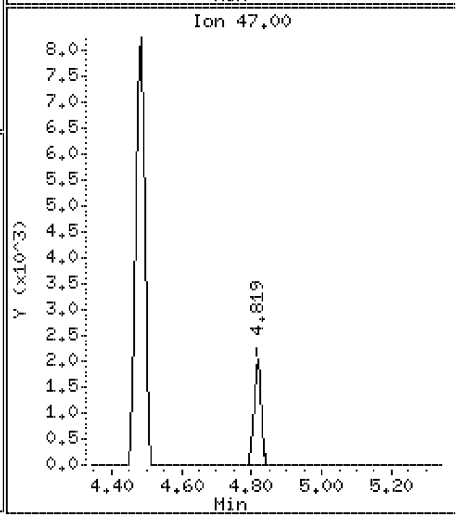


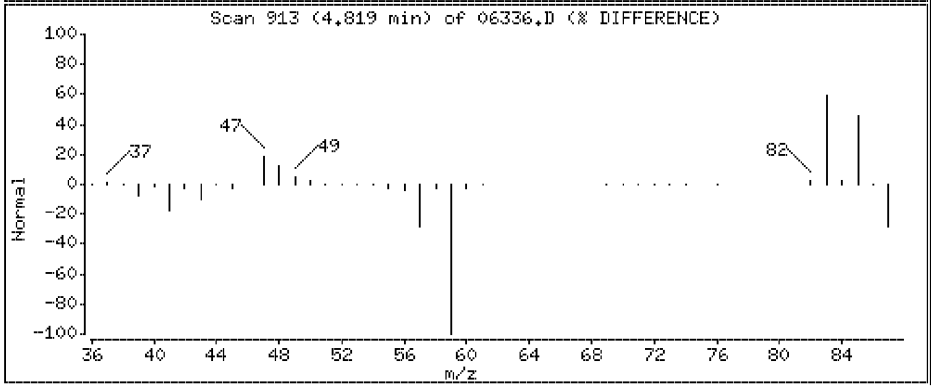












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

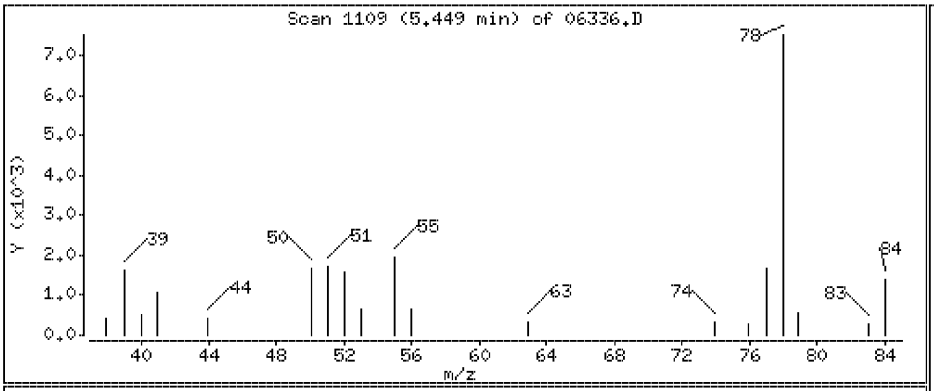
Operator: MJL

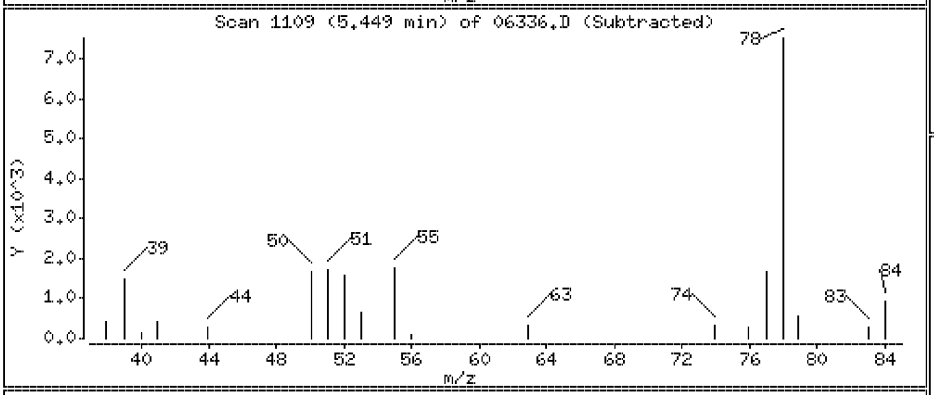
Column phase: J&W DB-5

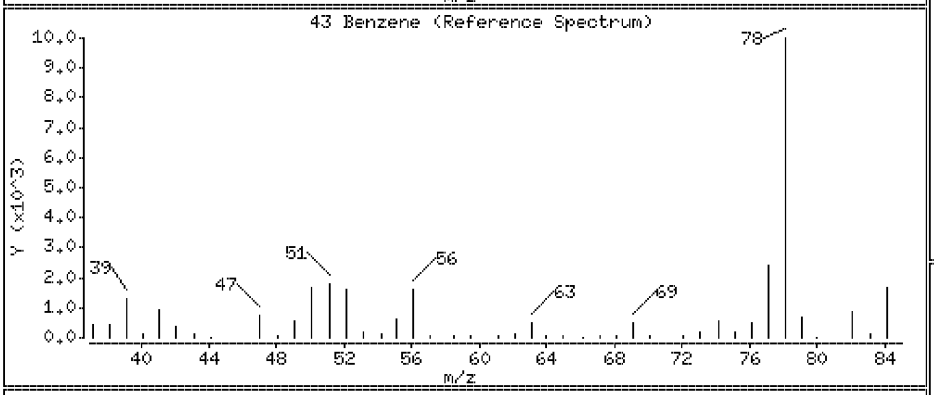
Column diameter: 0.32

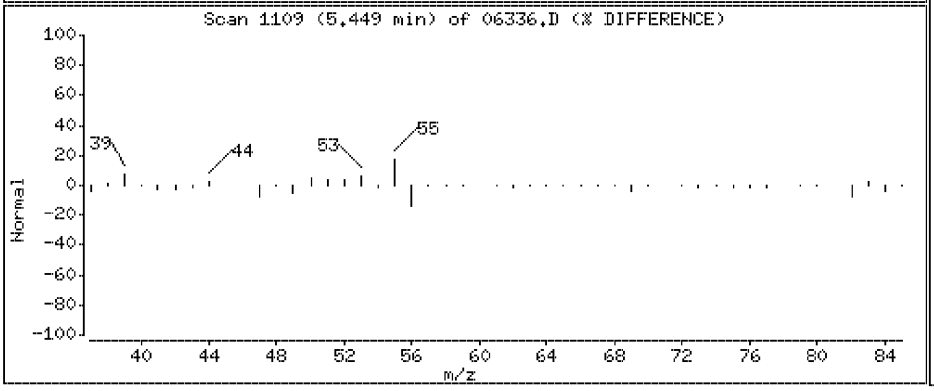
43 Benzene

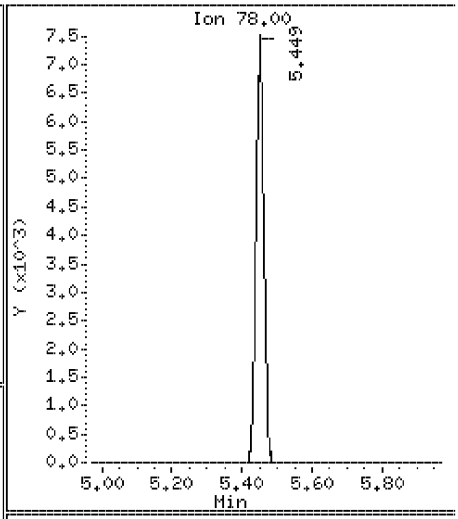
Concentration: 0.527 ppbv

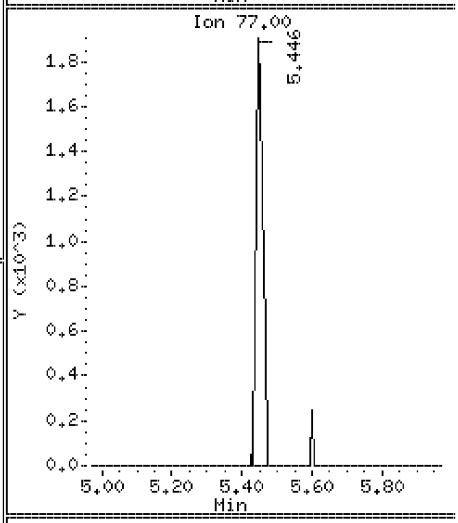


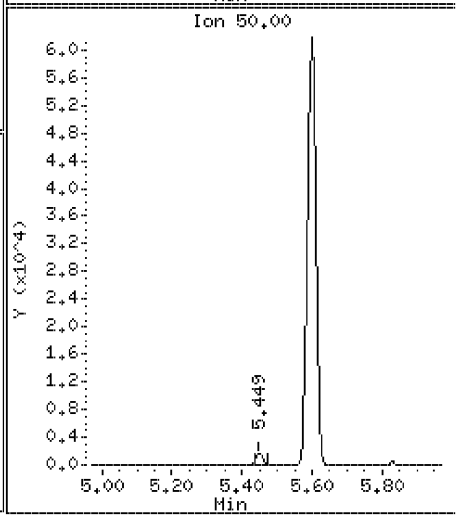












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

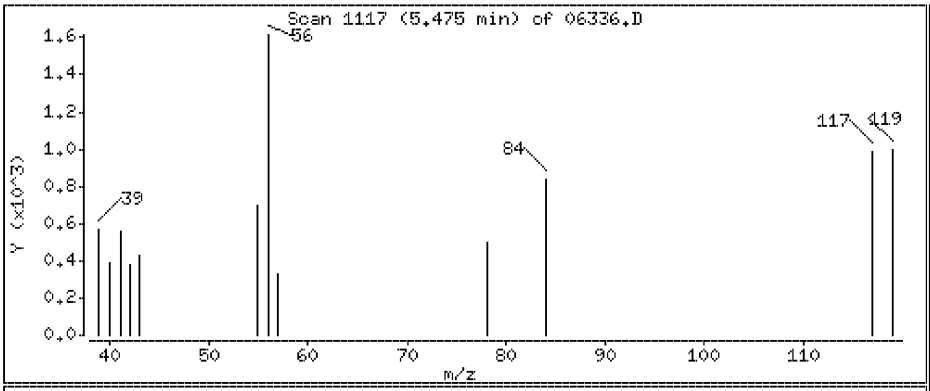
Operator: MJL

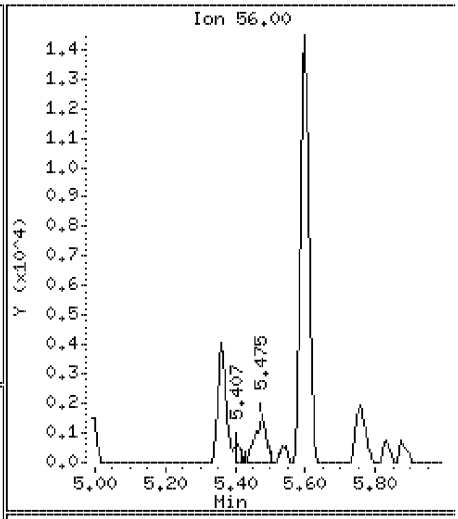
Column phase: J&W DB-5

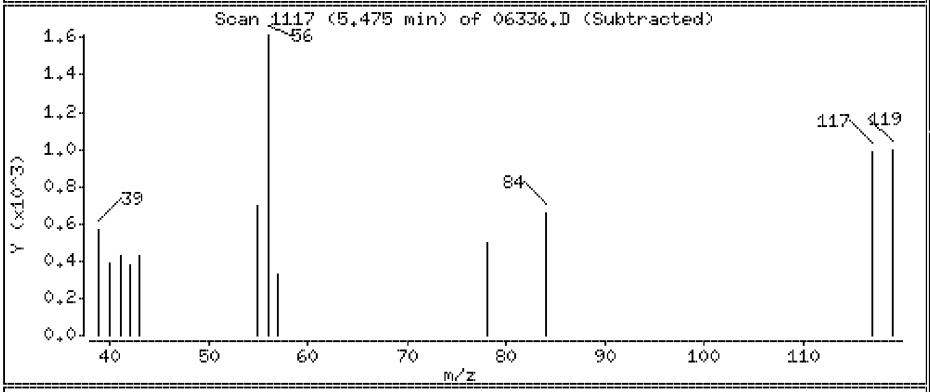
Column diameter: 0.32

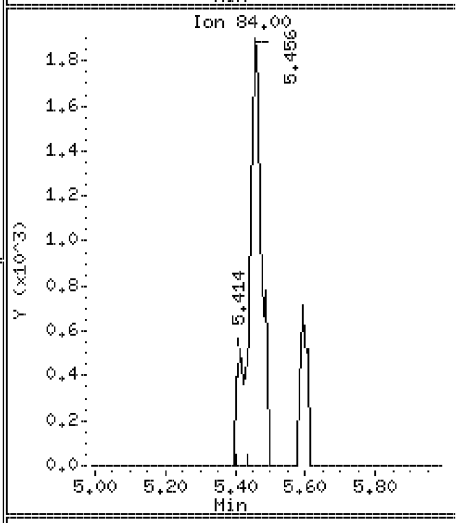
45 Cyclohexane

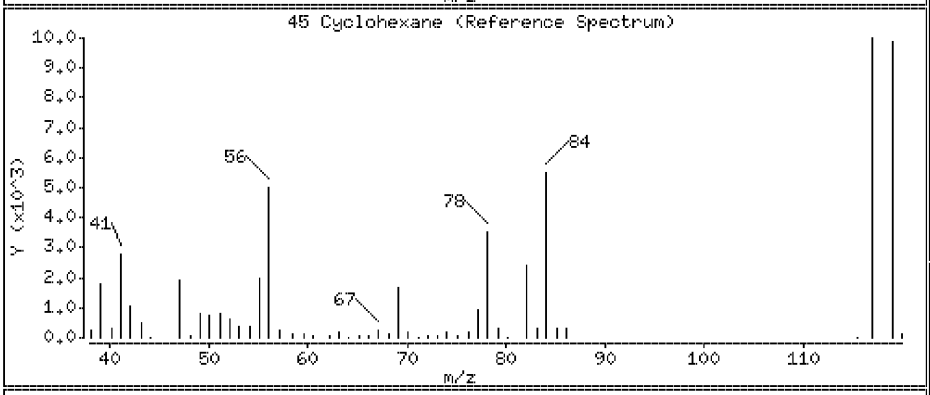
Concentration: 0.302 ppbv

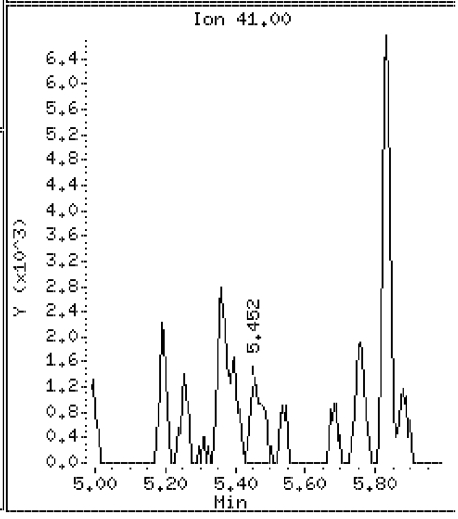


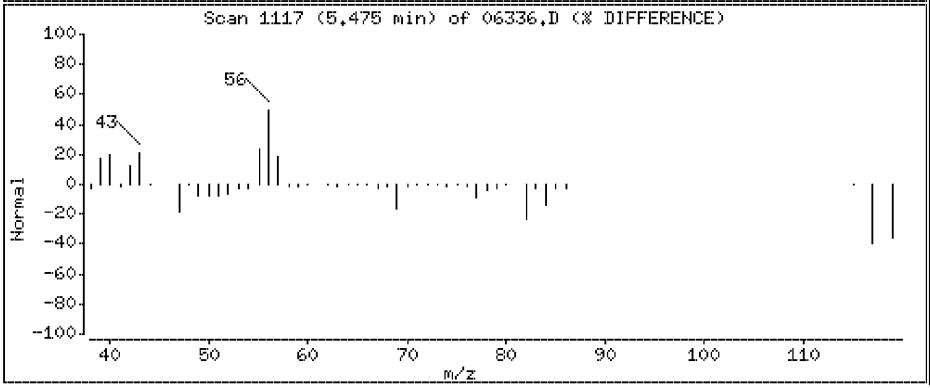












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

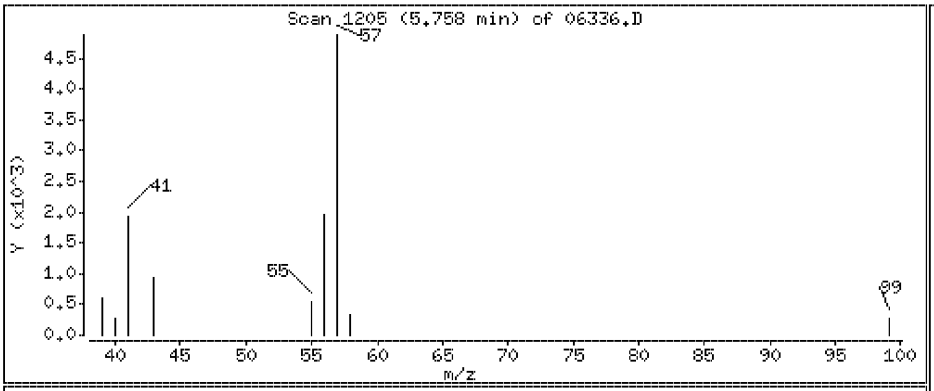
Operator: MJL

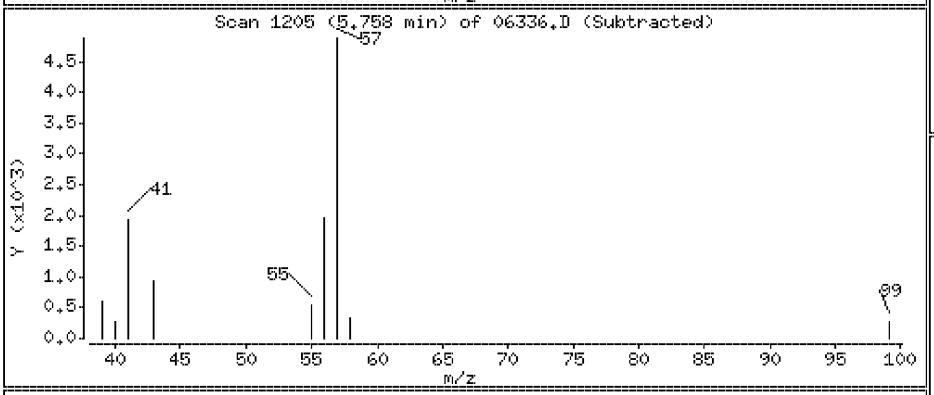
Column phase: J&W DB-5

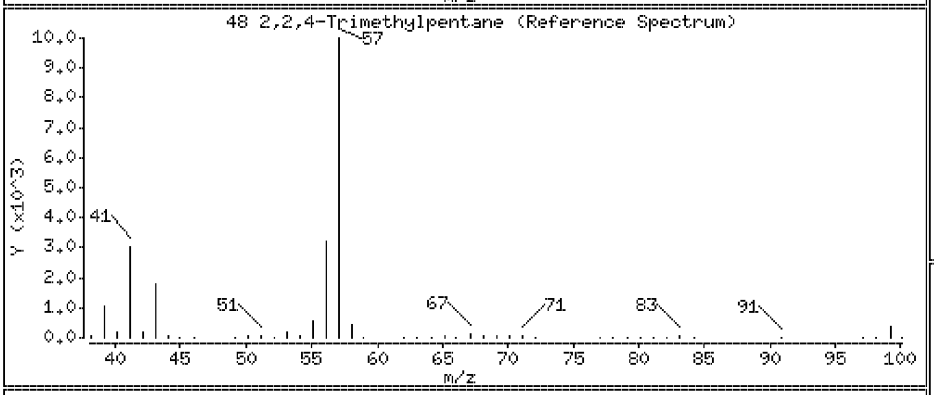
Column diameter: 0.32

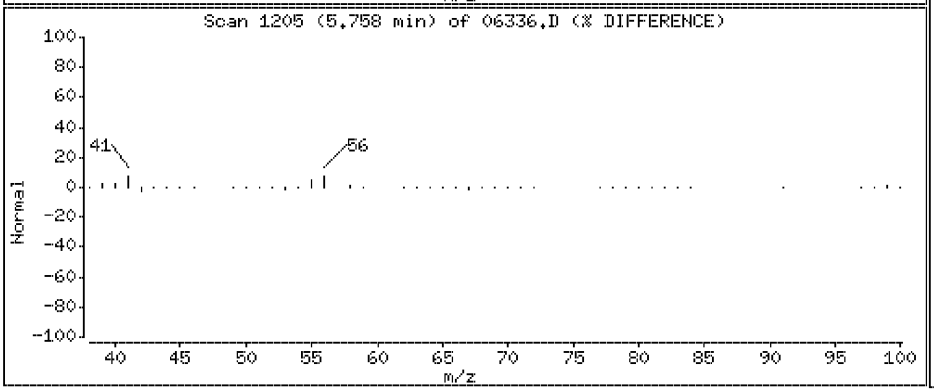
48 2,2,4-Trimethylpentane

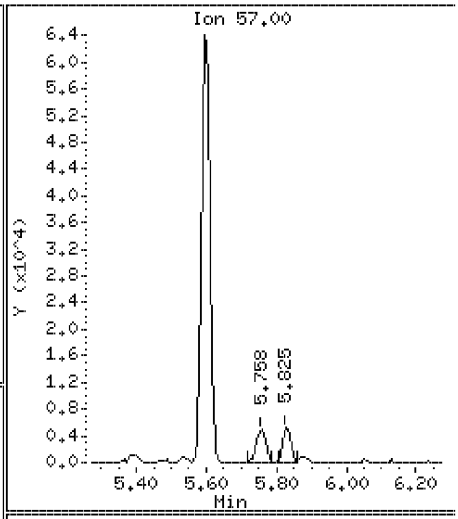
Concentration: 0.289 ppbv

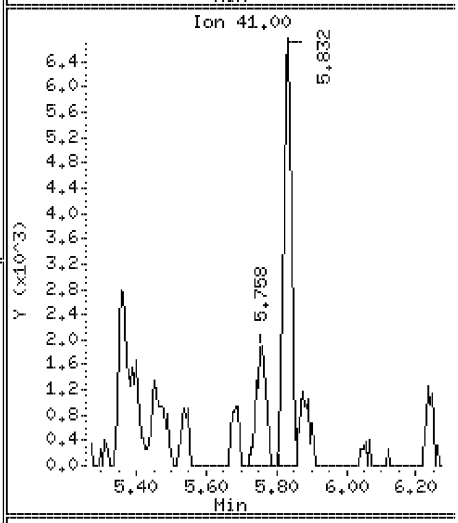


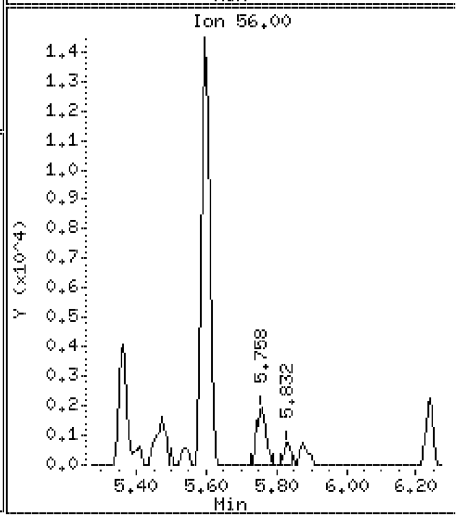












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

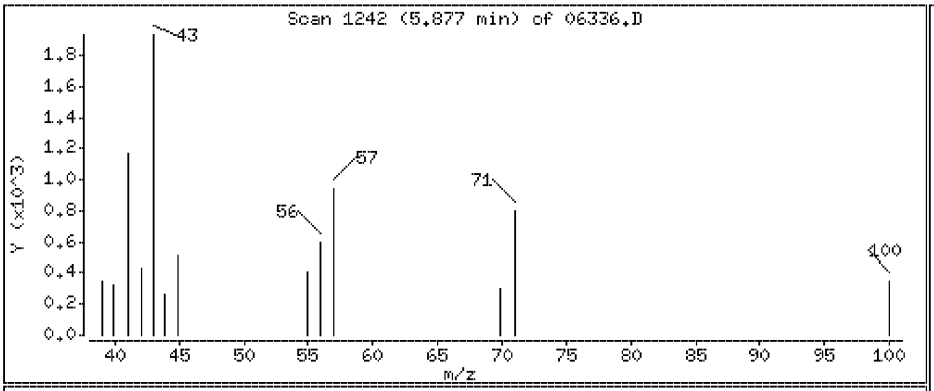
Operator: MJL

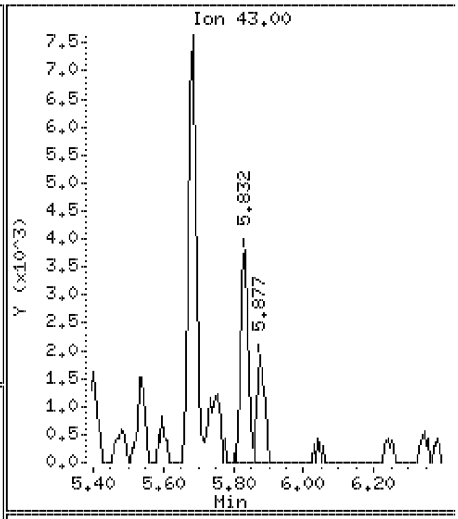
Column phase: J&W DB-5

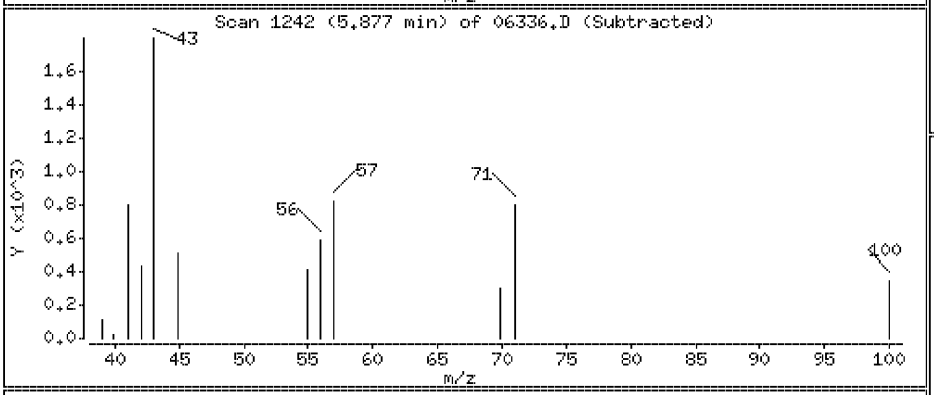
Column diameter: 0.32

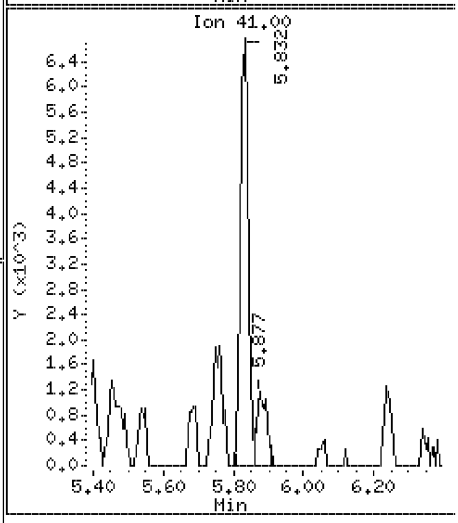
49 Heptane

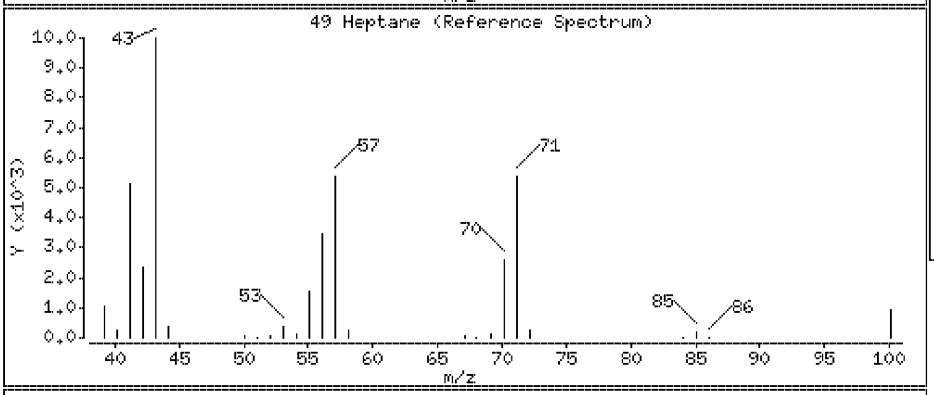
Concentration: 0.242 ppbv

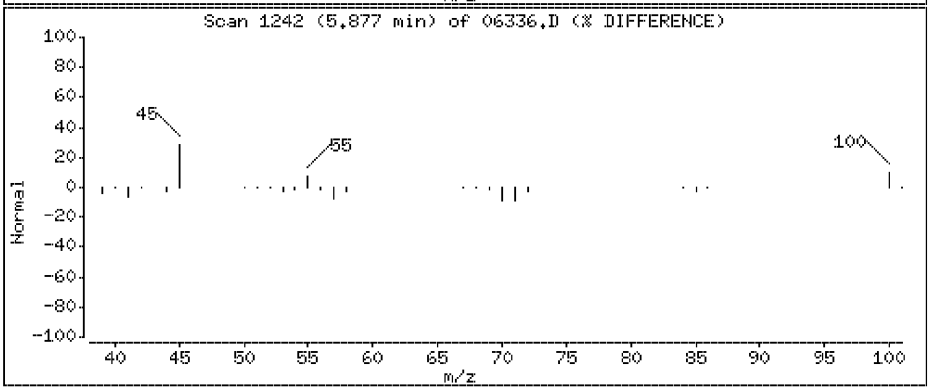












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

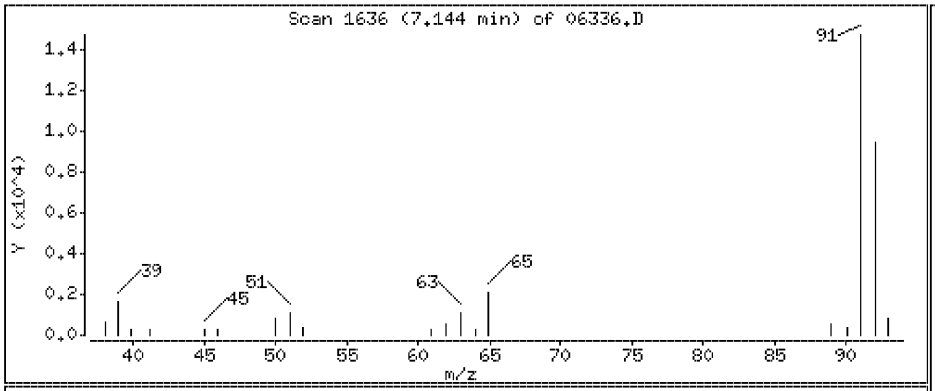
Operator: MJL

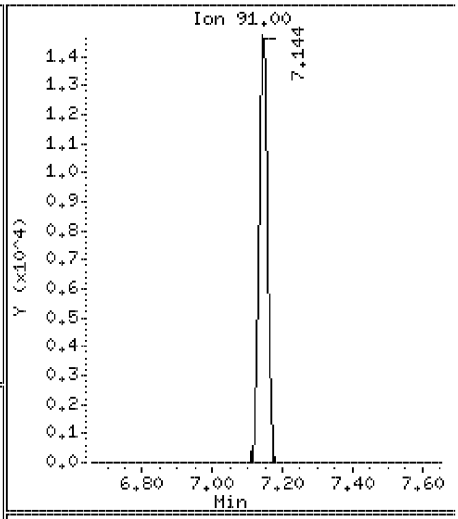
Column phase: J&W DB-5

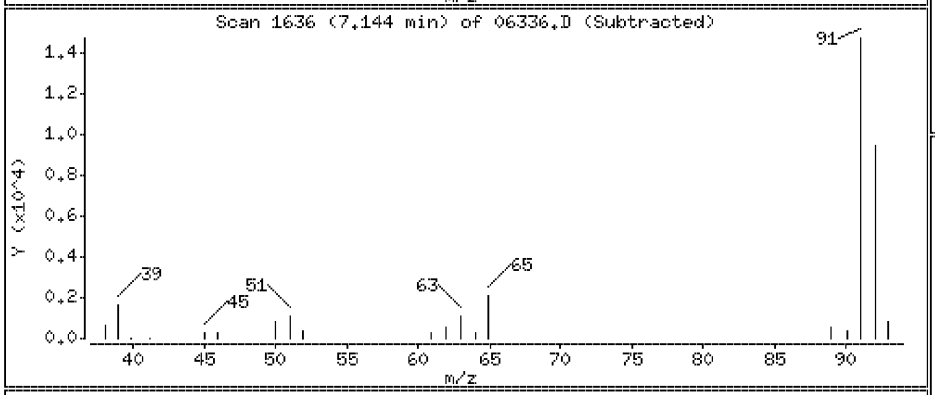
Column diameter: 0.32

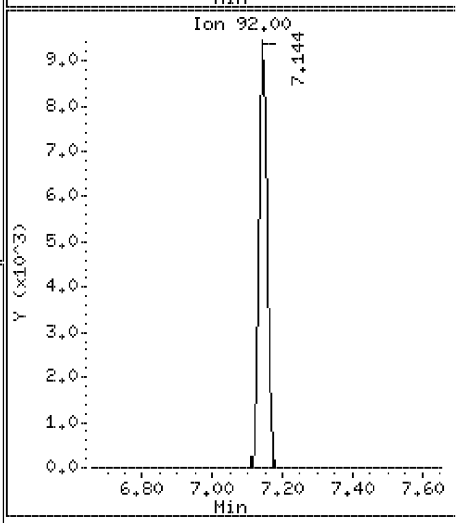
61 Toluene

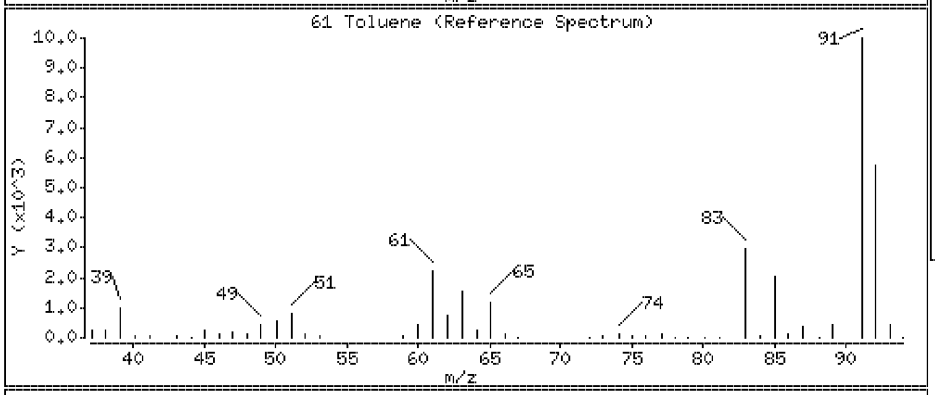
Concentration: 0.906 ppbv

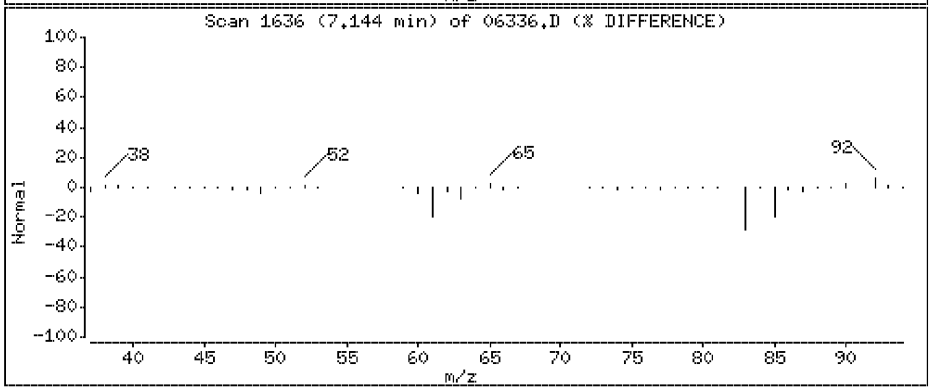












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

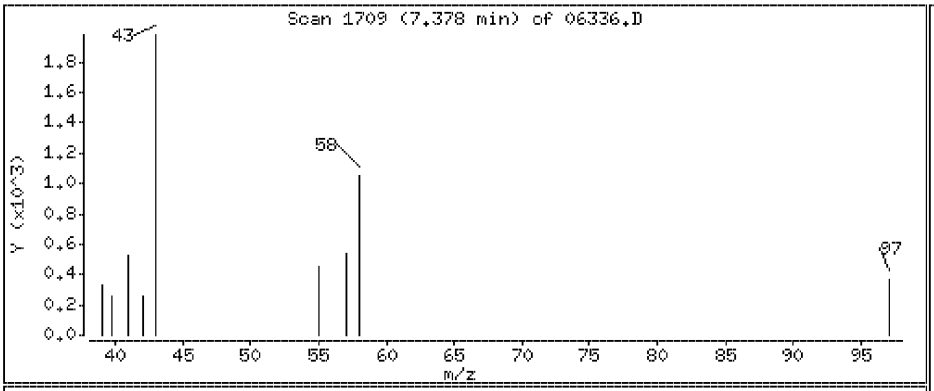
Operator: MJL

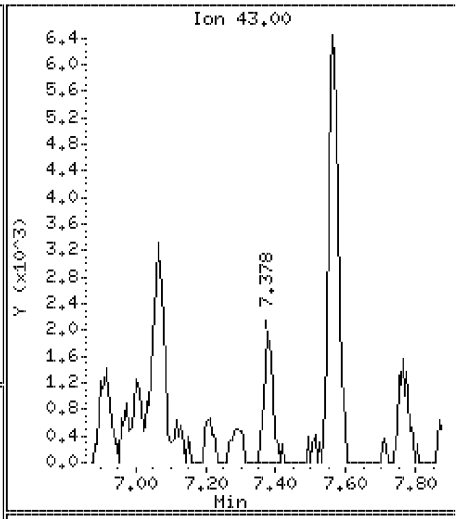
Column phase: J&W DB-5

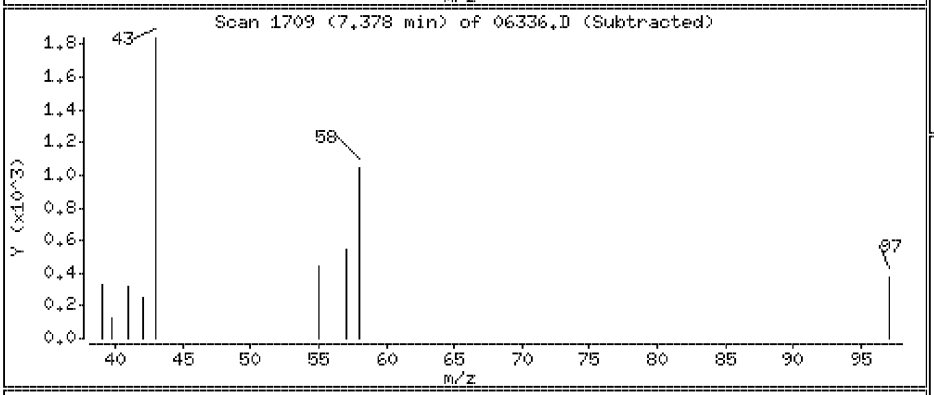
Column diameter: 0.32

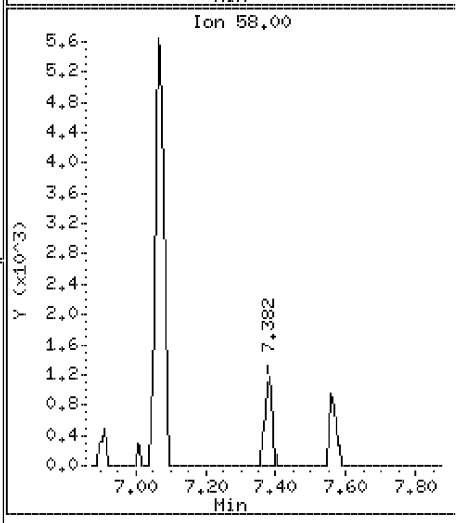
62 Methyl Butyl Ketone

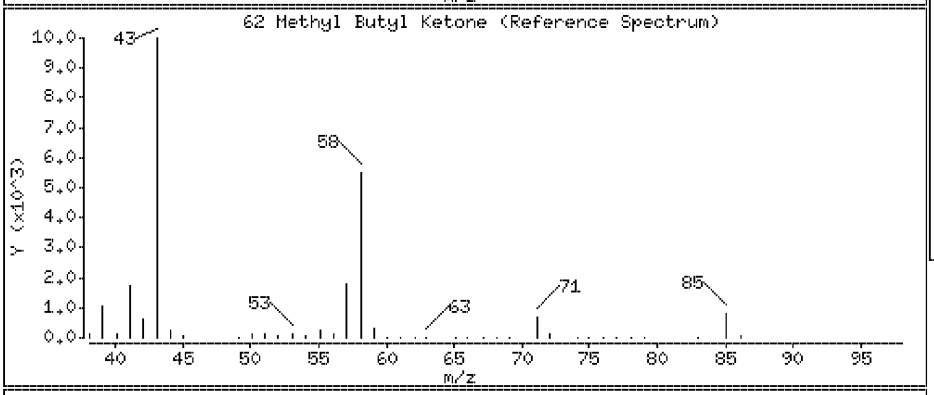
Concentration: 0.246 ppbv

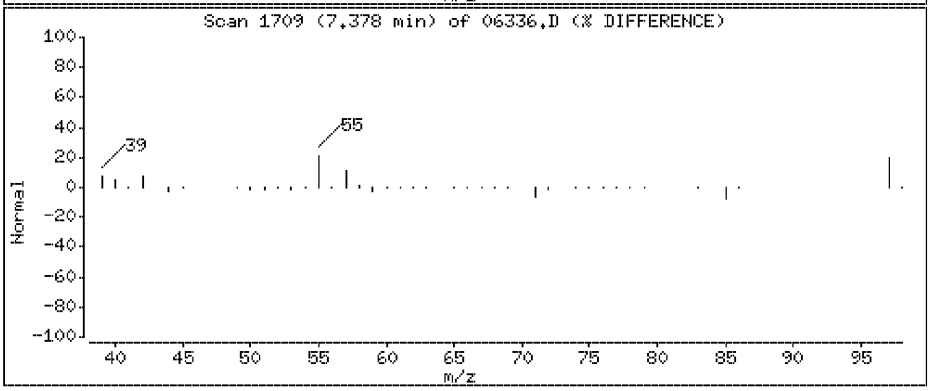












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

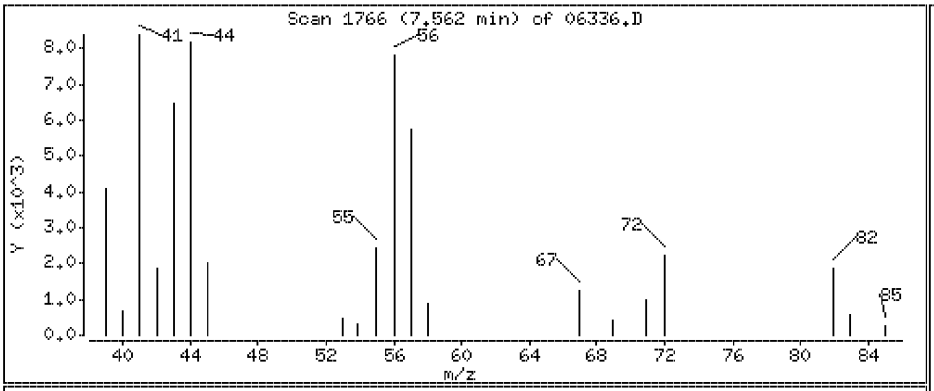
Operator: MJL

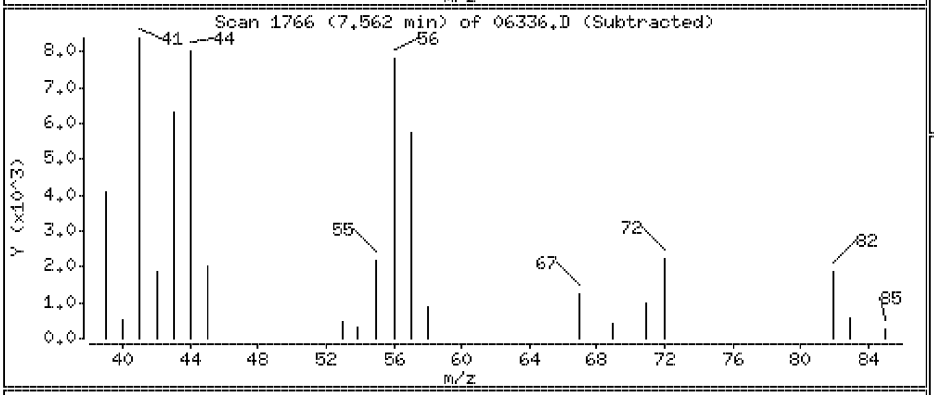
Column phase: J&W DB-5

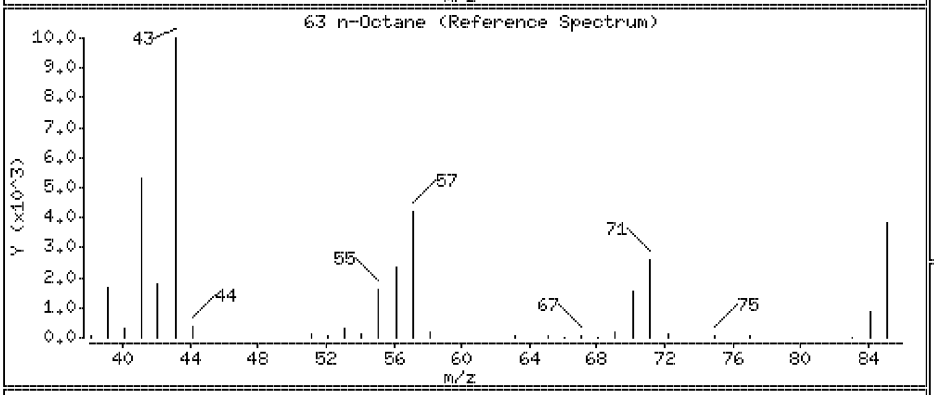
Column diameter: 0.32

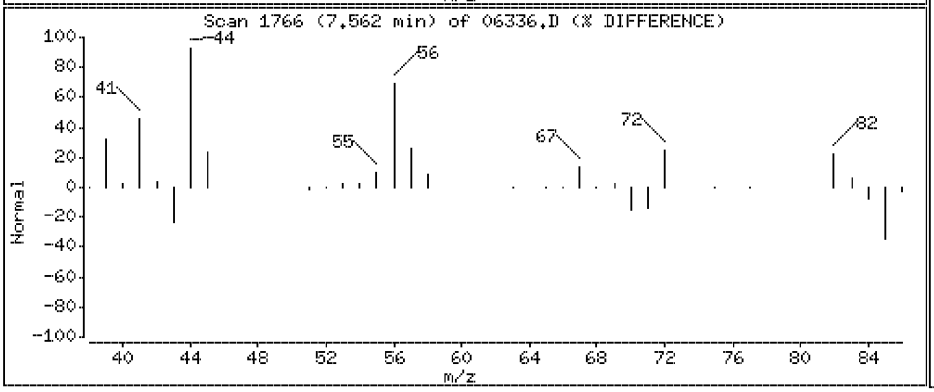
63 n-Octane

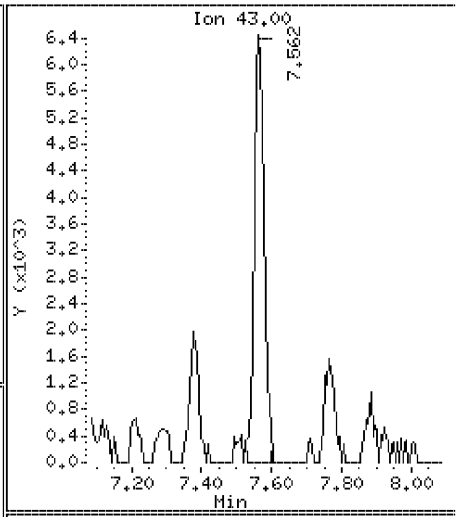
Concentration: 0.825 ppbv

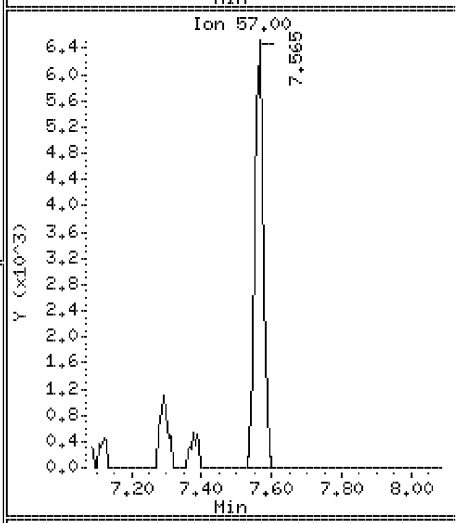


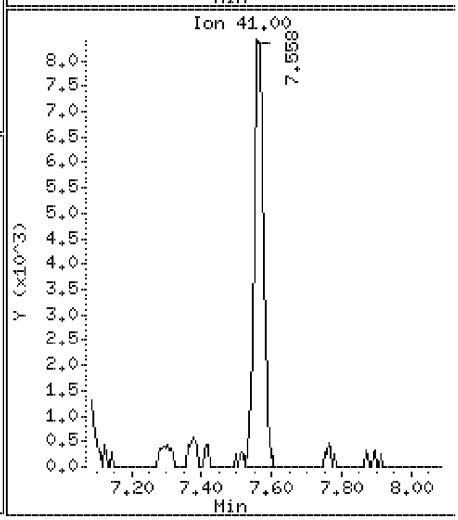












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

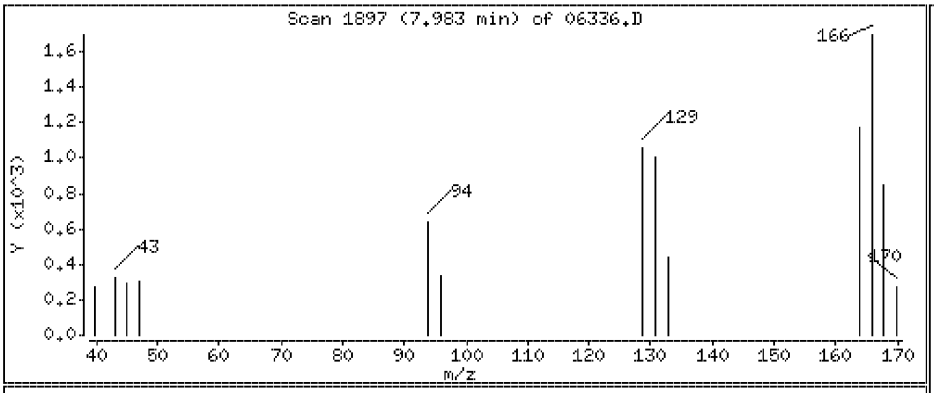
Operator: MJL

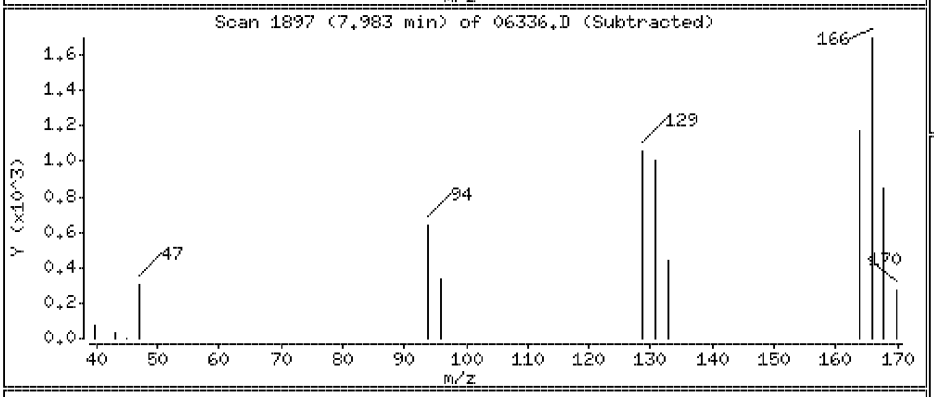
Column phase: J&W DB-5

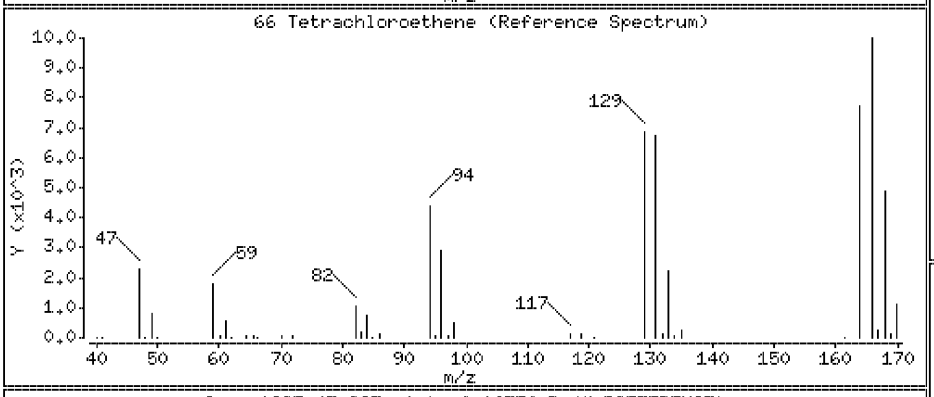
Column diameter: 0.32

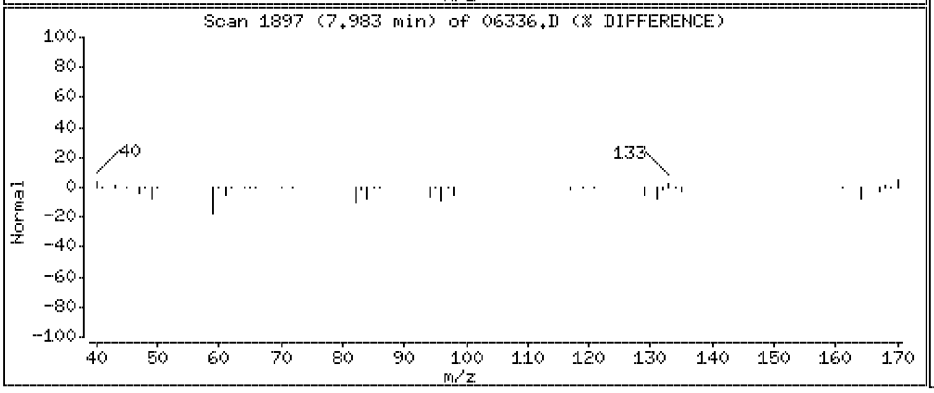
66 Tetrachloroethene

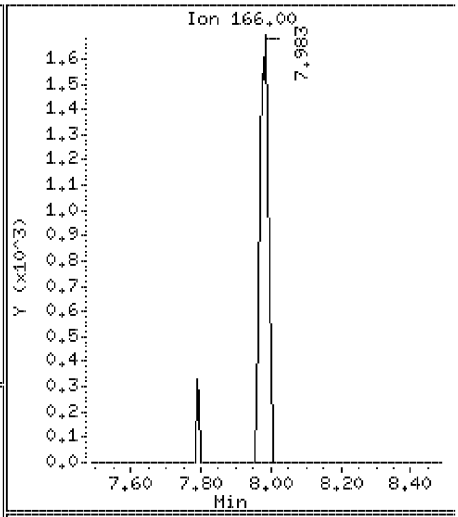
Concentration: 0.190 ppbv

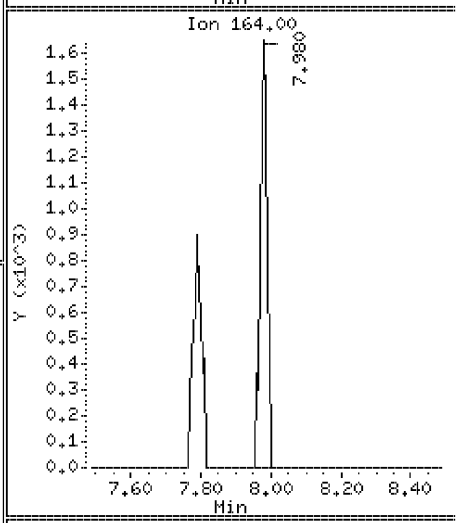


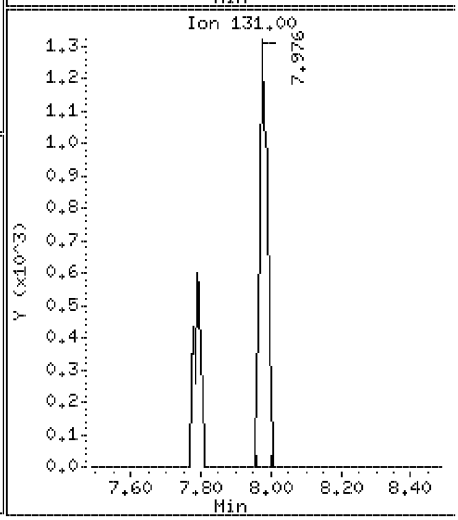












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

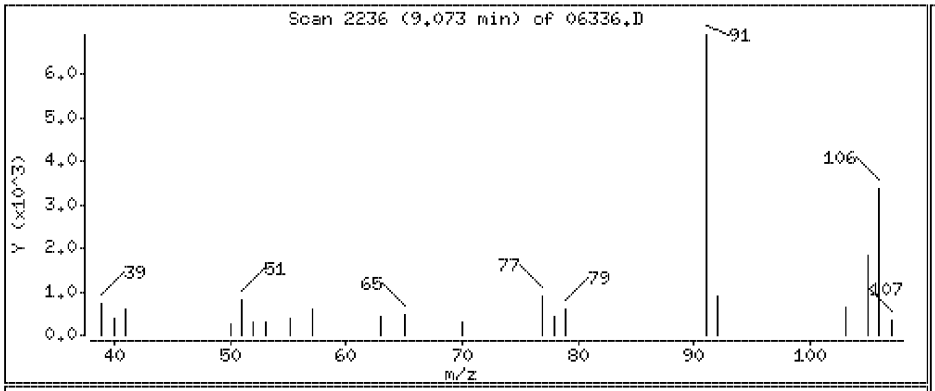
Operator: MJL

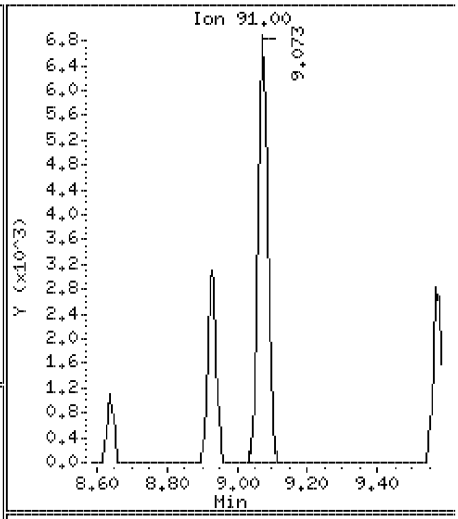
Column phase: J&W DB-5

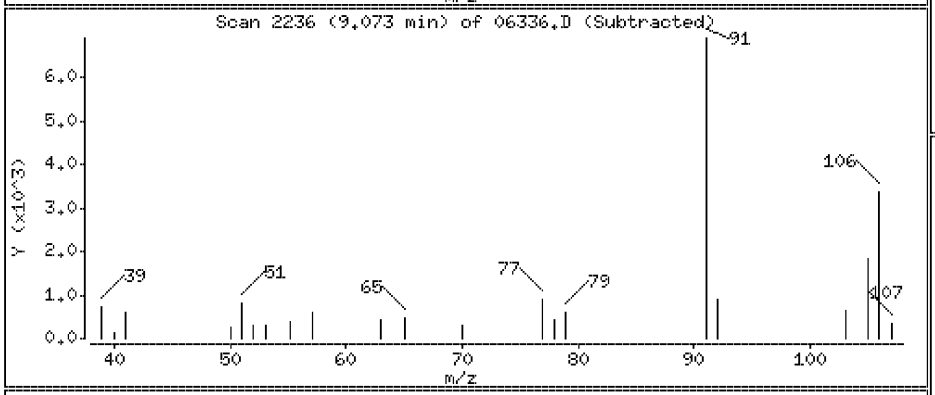
Column diameter: 0.32

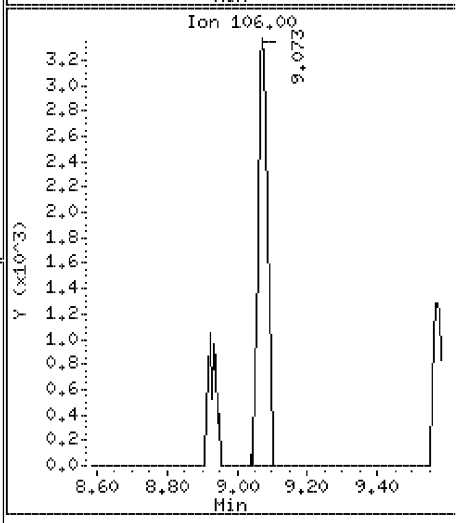
70 m&p-Xylene

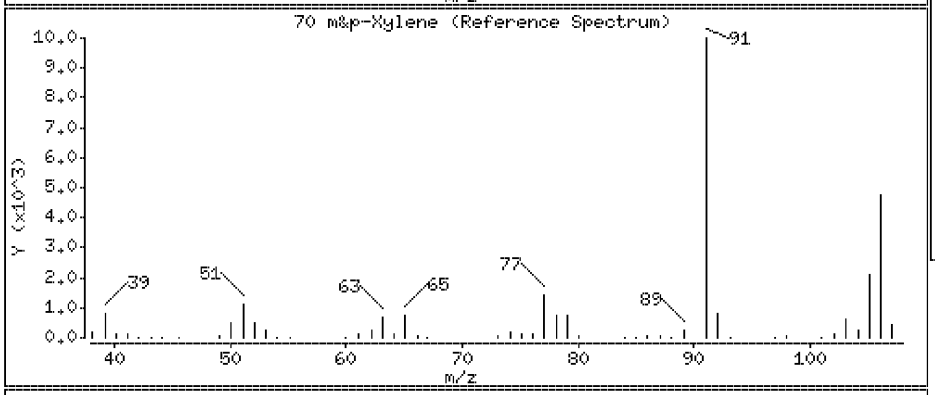
Concentration: 0.515 ppbv

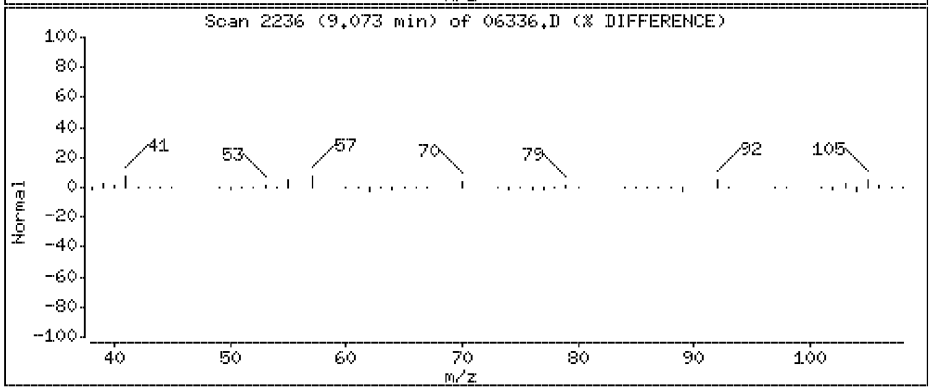












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

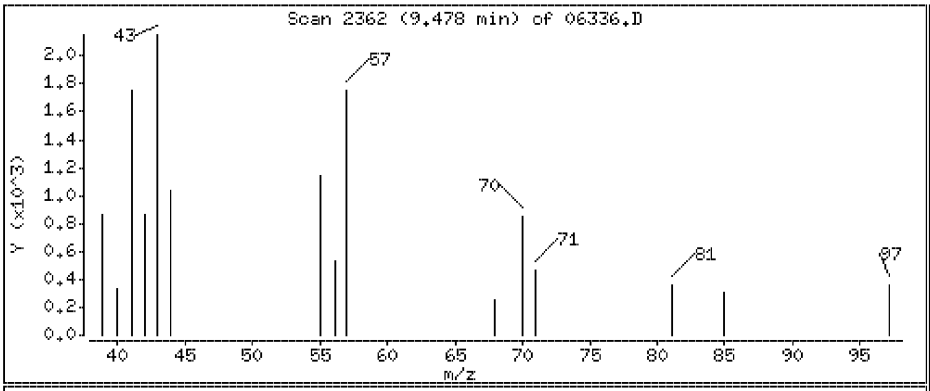
Operator: MJL

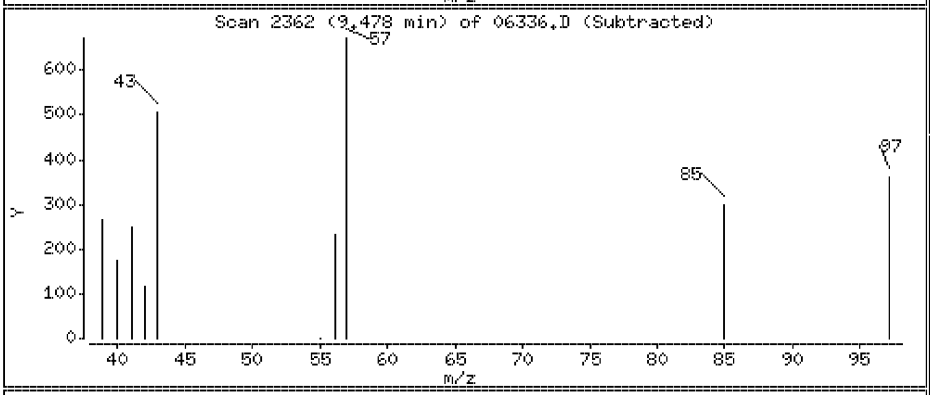
Column phase: J&W DB-5

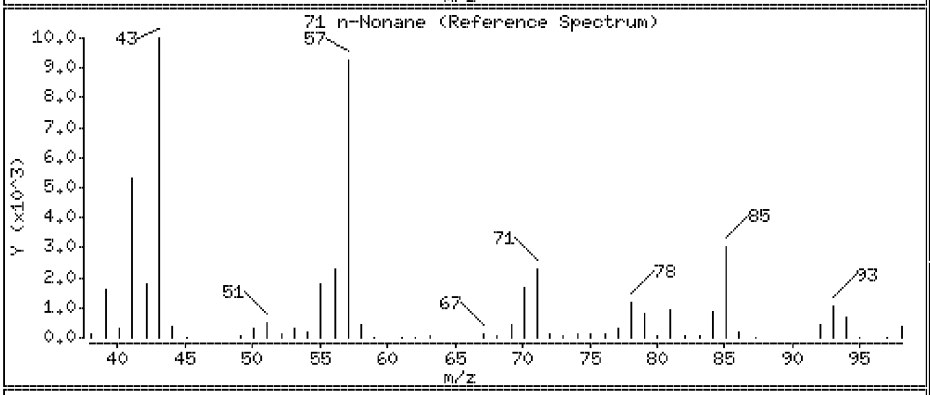
Column diameter: 0.32

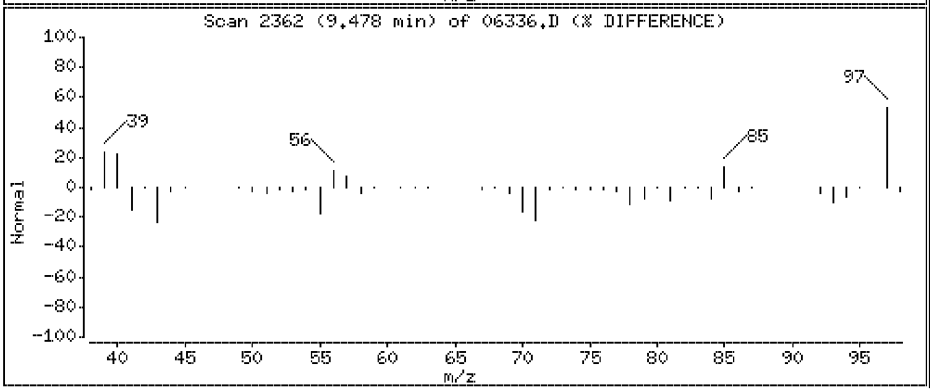
71 n-Nonane

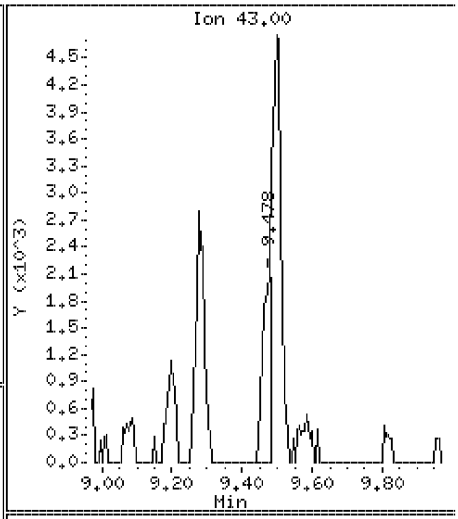
Concentration: 0.263 ppbv

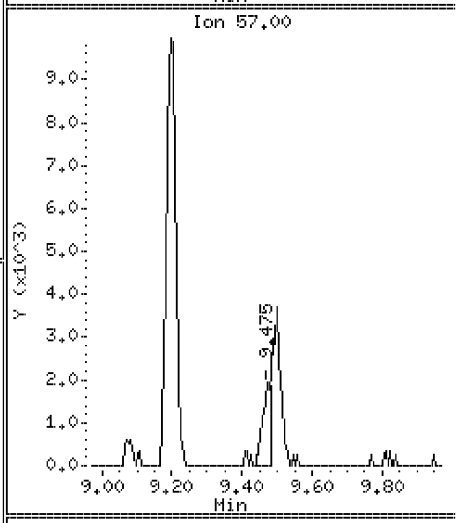


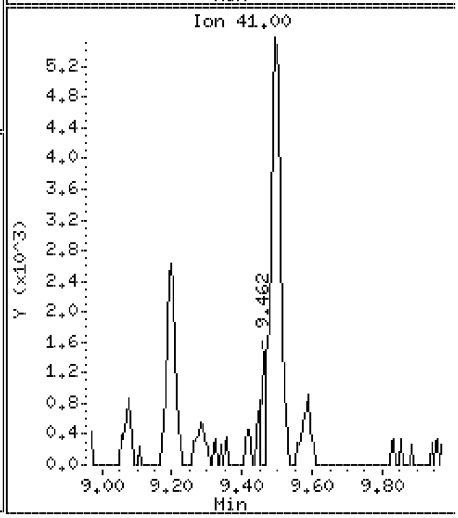












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

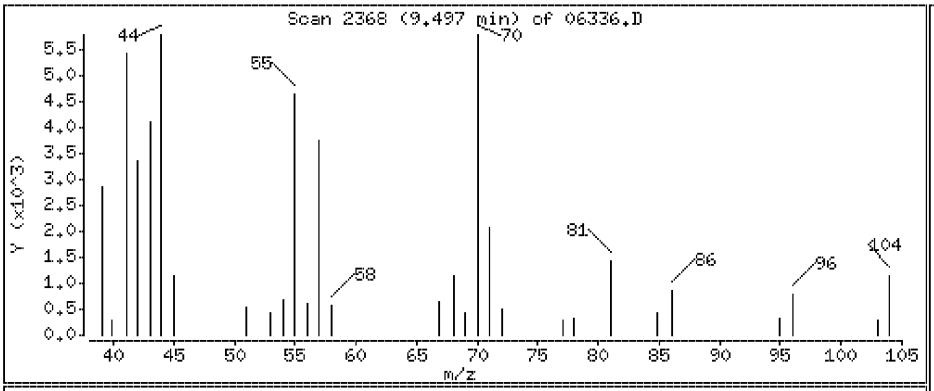
Operator: MJL

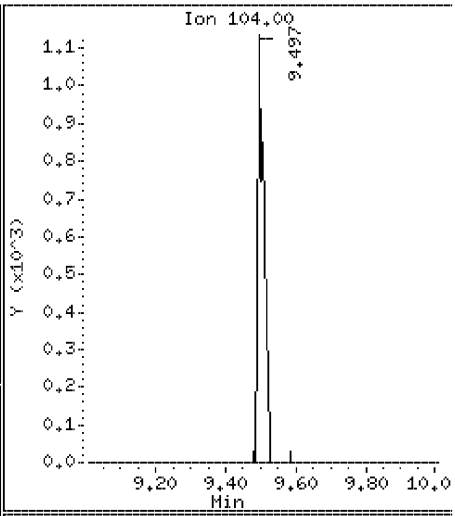
Column phase: J&W DB-5

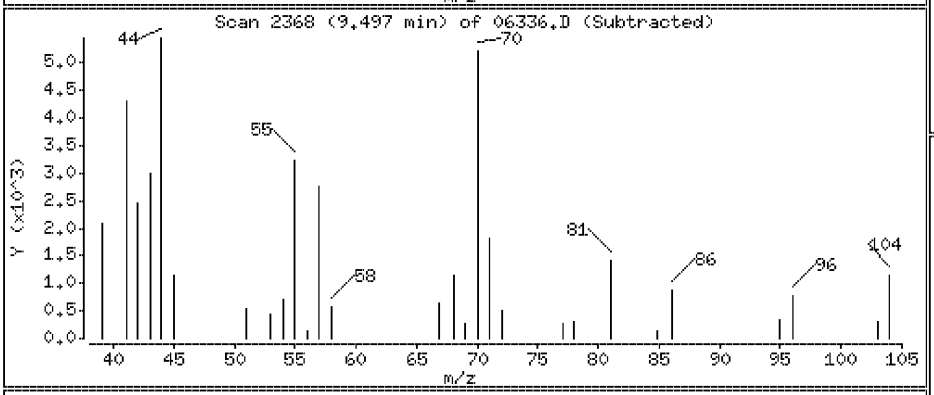
Column diameter: 0.32

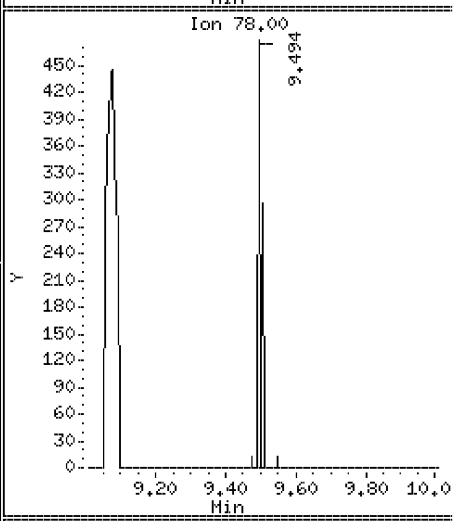
73 Styrene

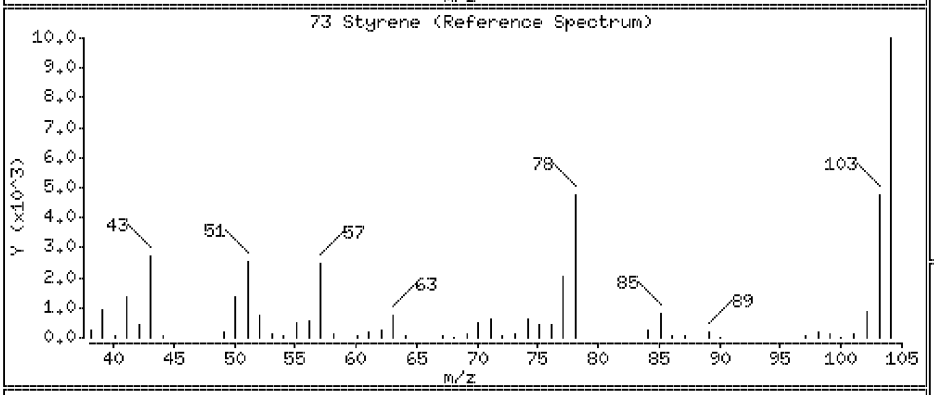
Concentration: 0.213 ppbv

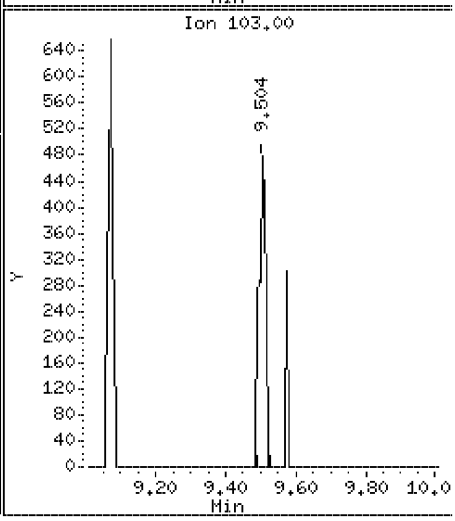


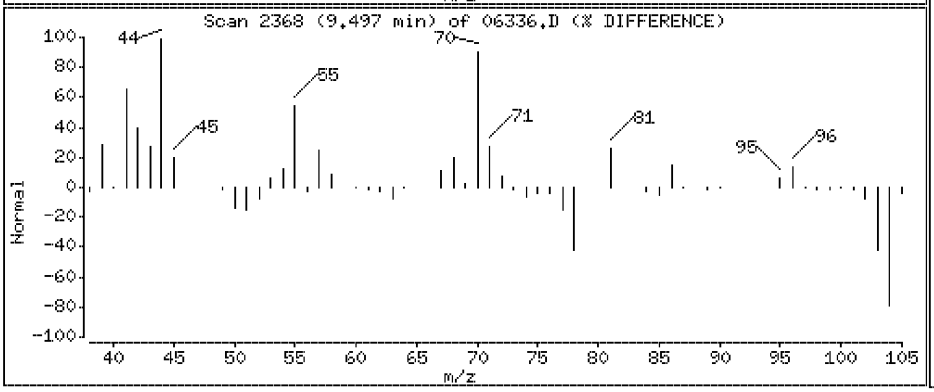












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

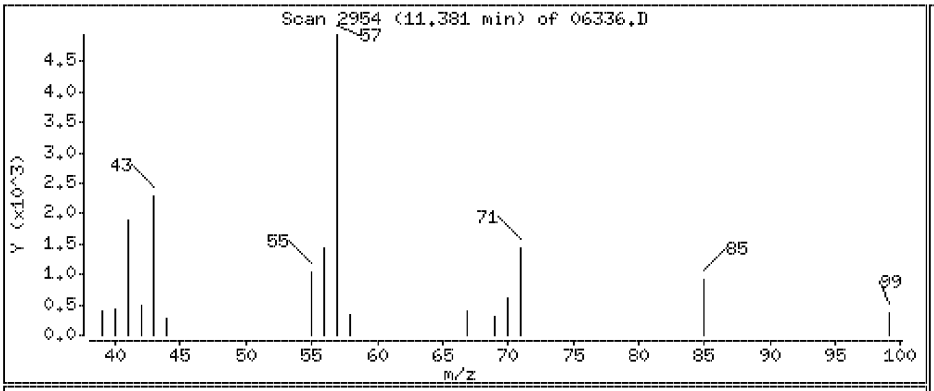
Operator: MJL

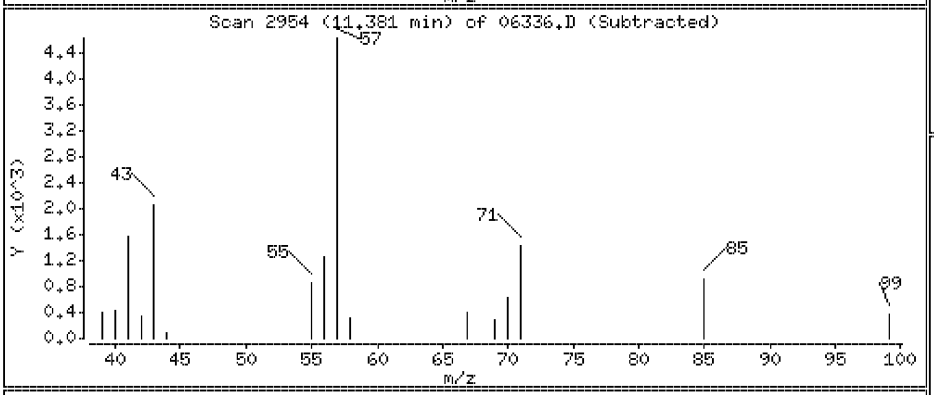
Column phase: J&W DB-5

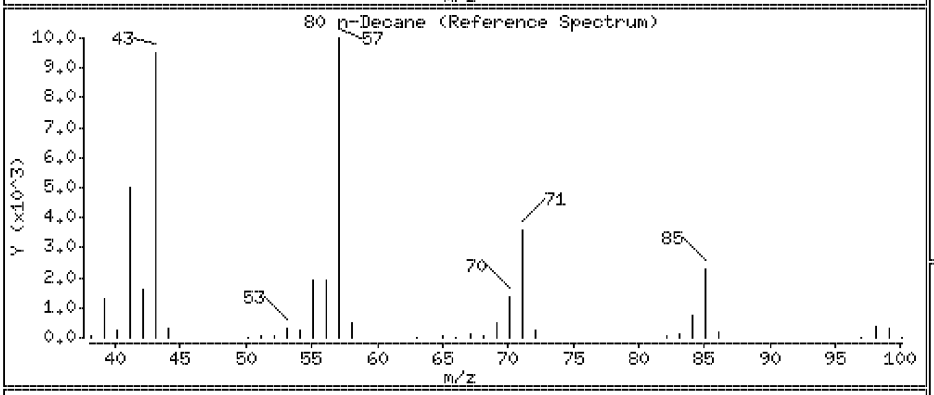
Column diameter: 0.32

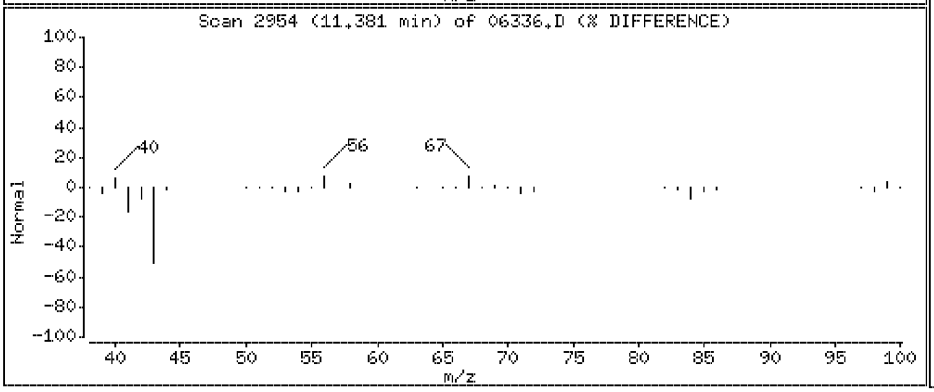
80 n-Decane

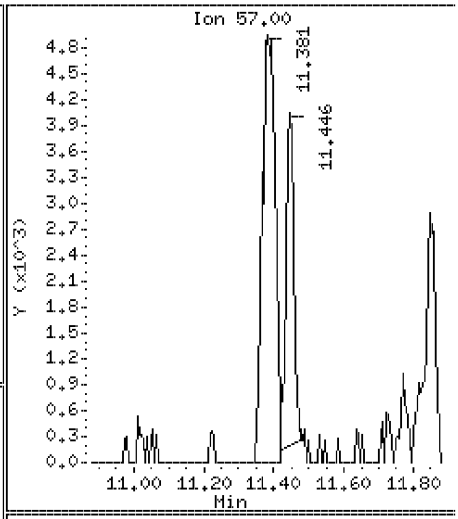
Concentration: 1.20 ppbv

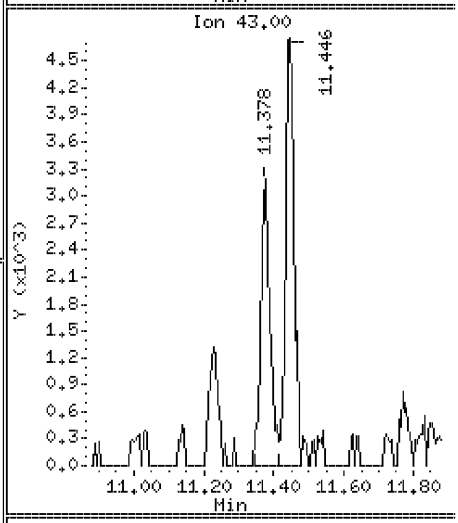


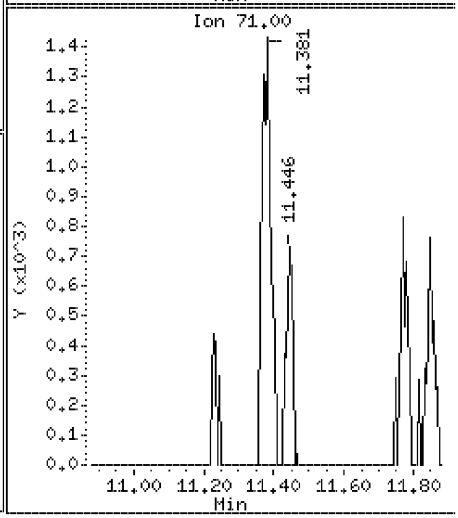












Data File: \\192.168.10.12\chem\10airB.i\030417.b\06336.D

Date : 05-MAR-2017 00:56

Client ID:

Instrument: 10airB.i

Sample Info:

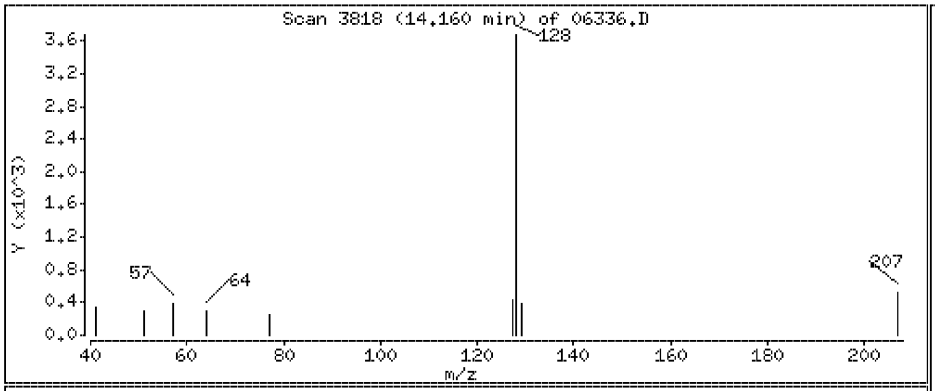
Operator: MJL

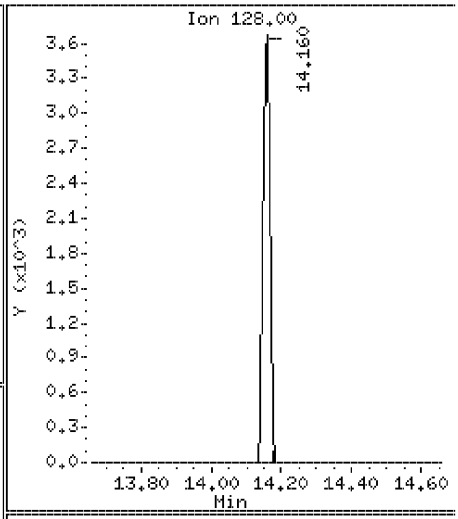
Column phase: J&W DB-5

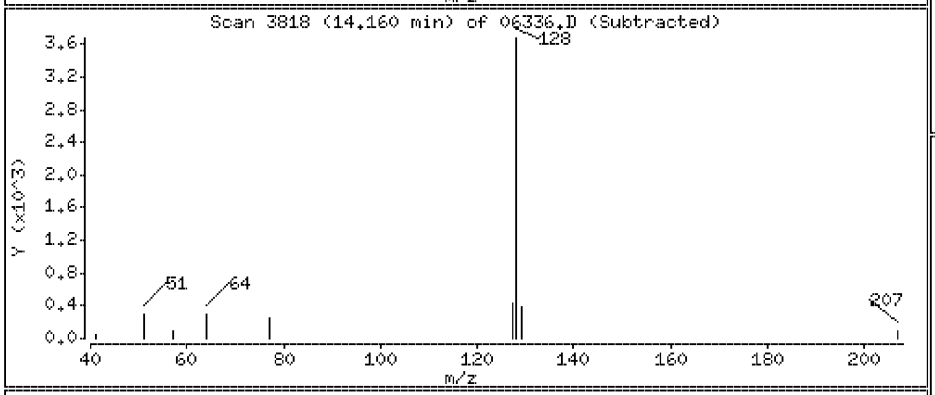
Column diameter: 0.32

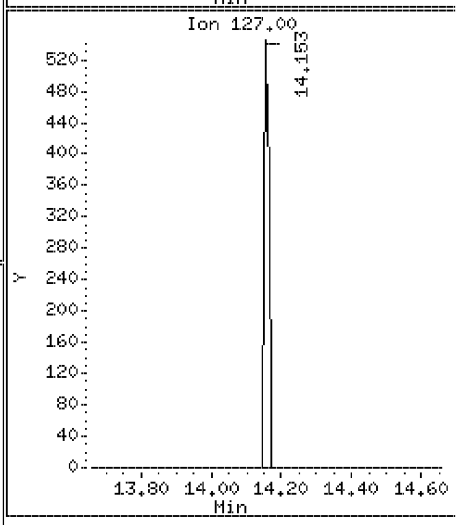
94 Naphthalene

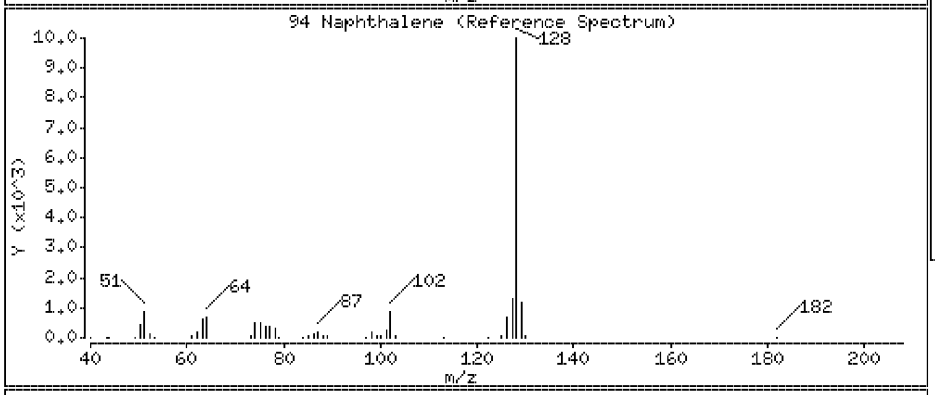
Concentration: 0.950 ppbv

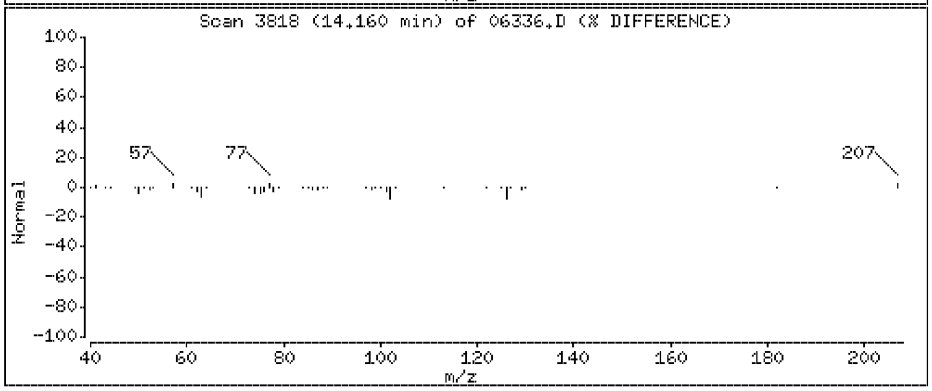






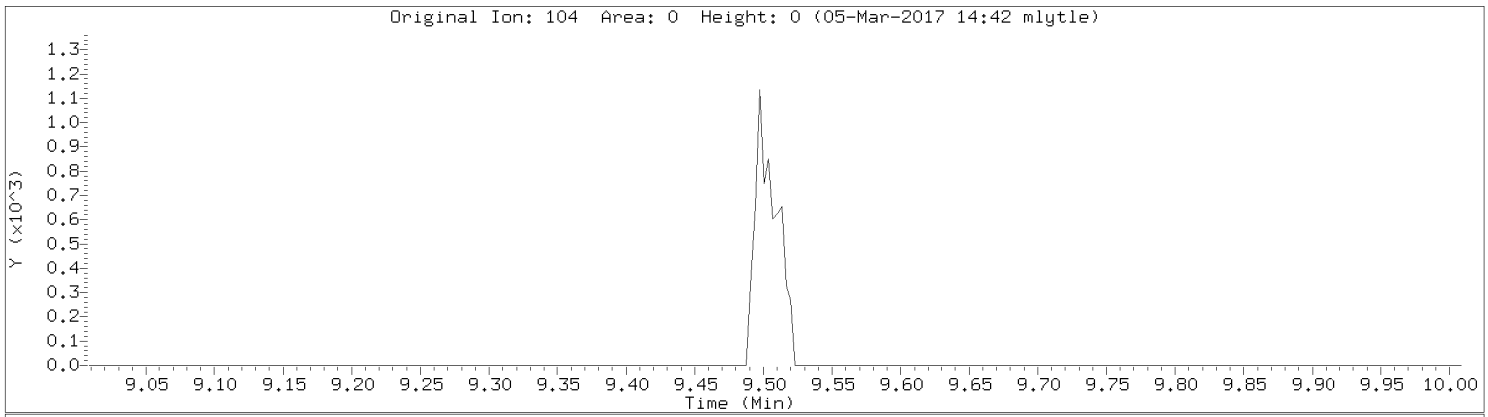


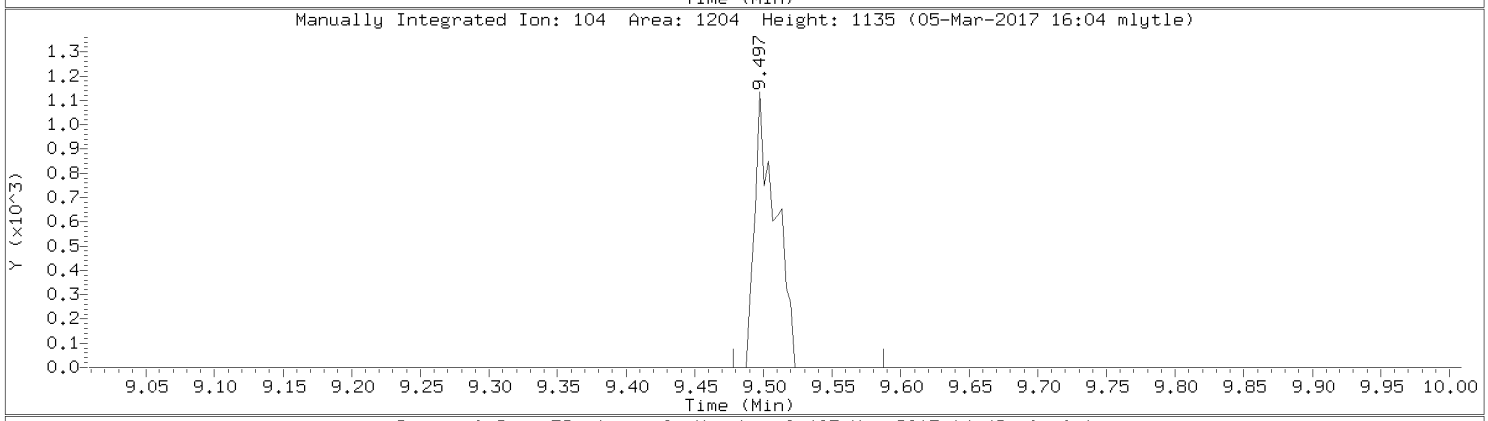


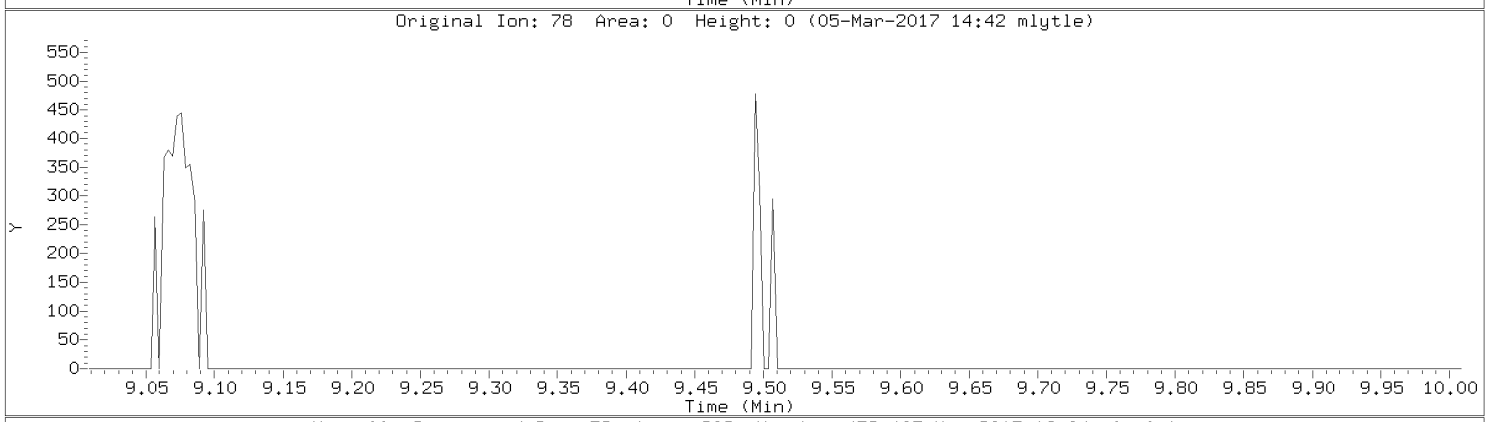


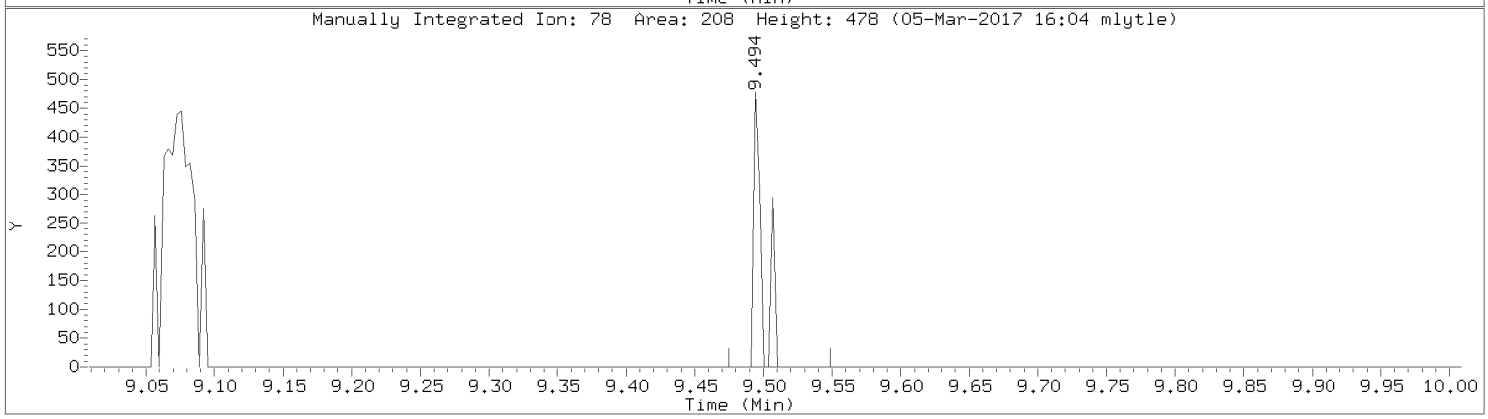
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06336.D
Injection Date: 05-MAR-2017 00:56
Instrument: 10airB.i
Lab Sample ID: 10379458009

Compound: Styrene
CAS Number: 100-42-5

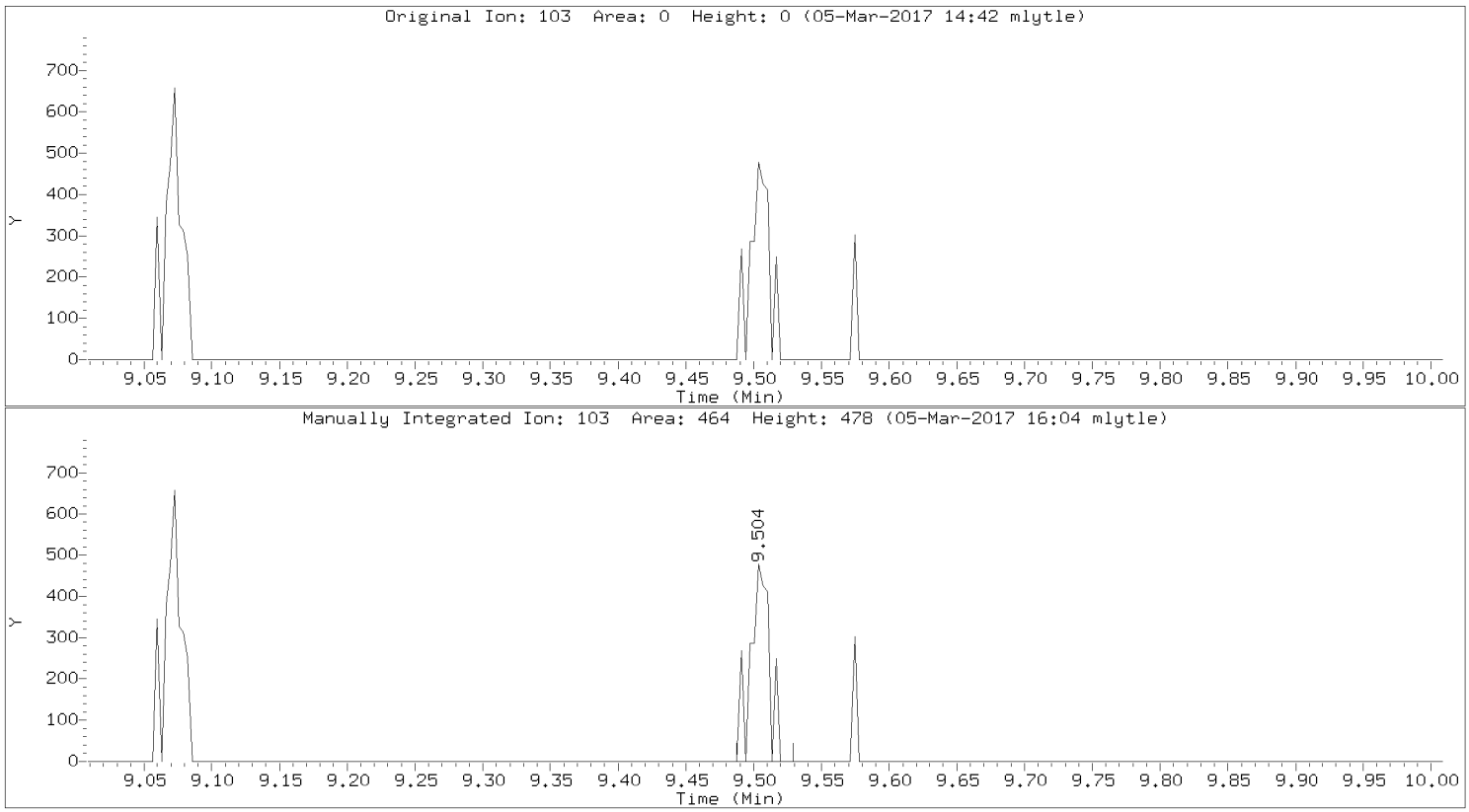






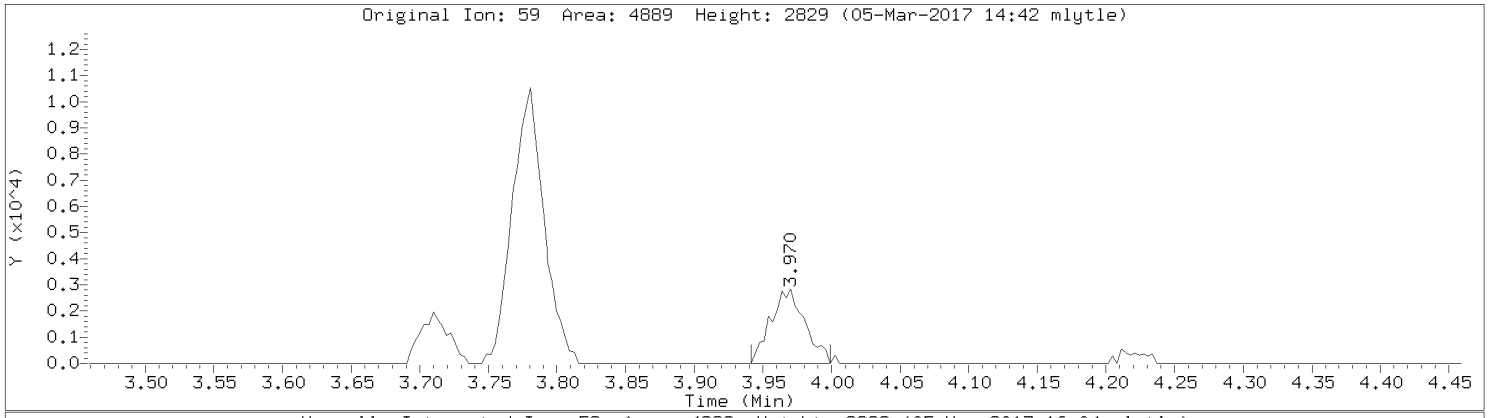


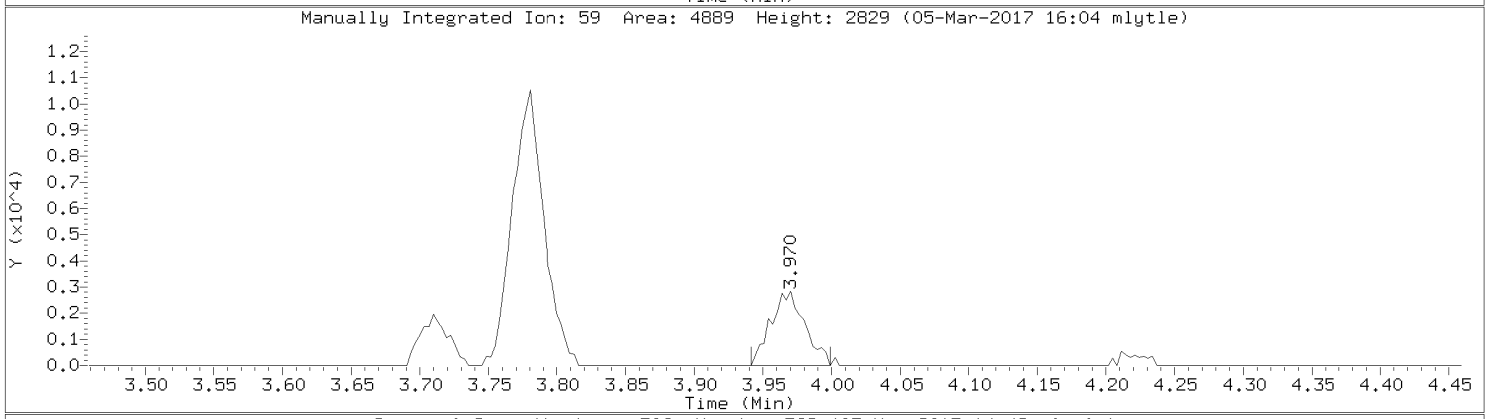
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06336.D
Injection Date: 05-MAR-2017 00:56
Instrument: 10airB.i
Lab Sample ID: 10379458009

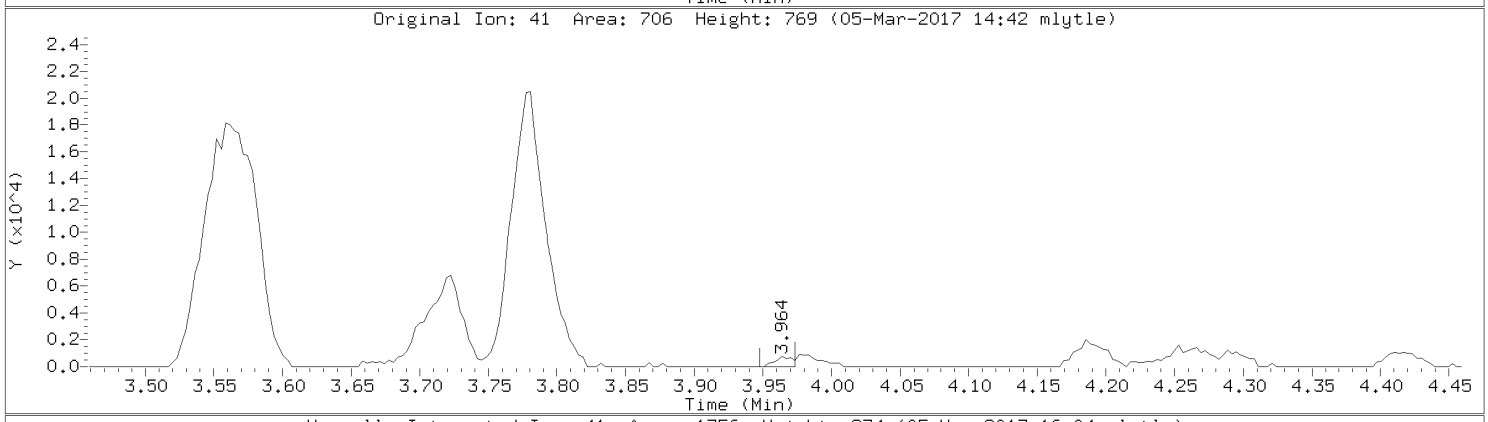


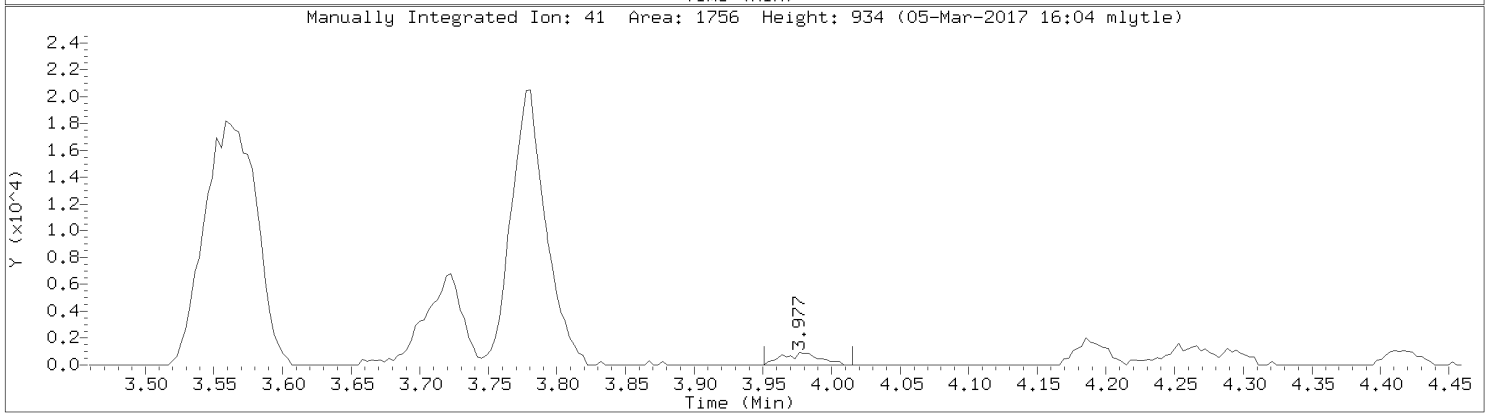
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06336.D
Injection Date: 05-MAR-2017 00:56
Instrument: 10airB.i
Lab Sample ID: 10379458009

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0



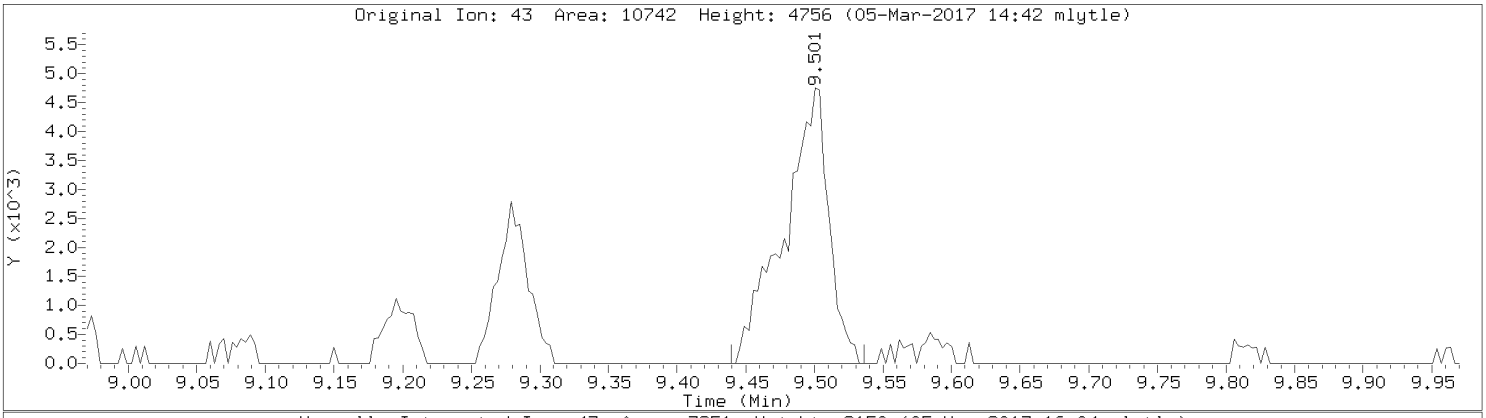


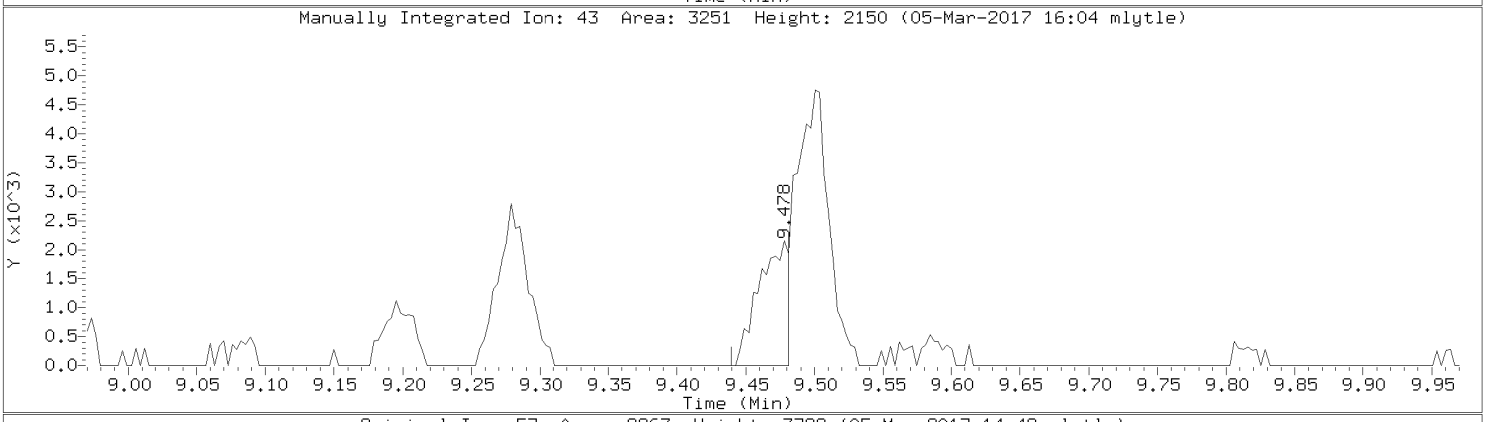


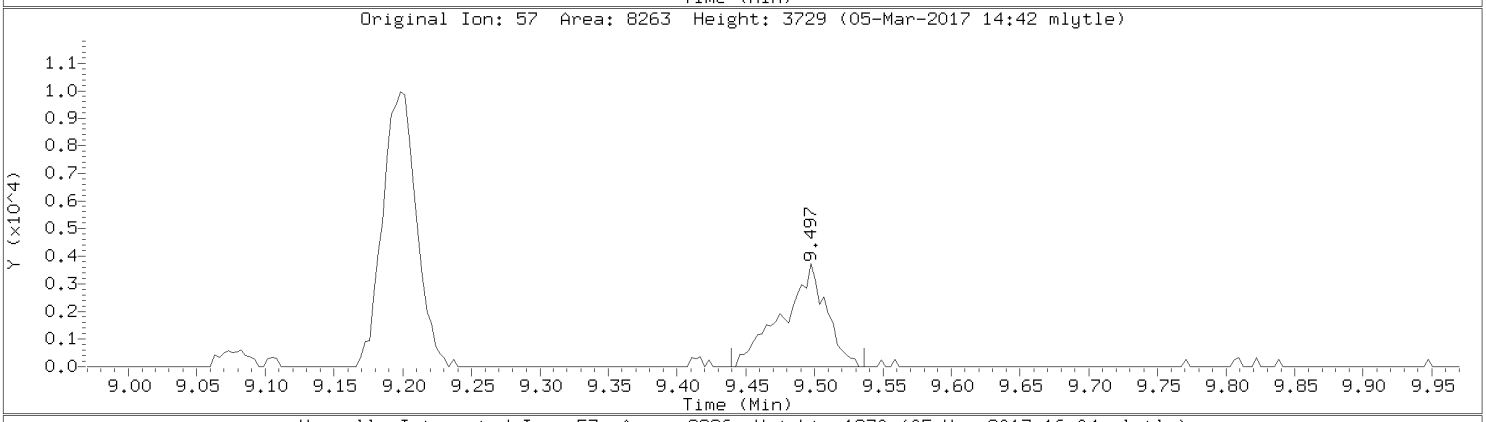


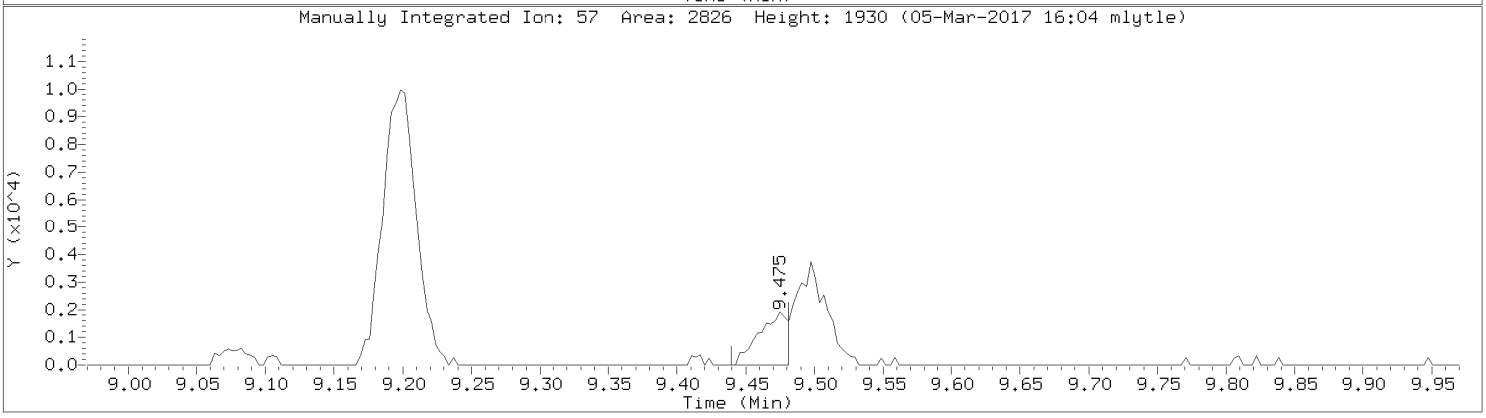
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06336.D
Injection Date: 05-MAR-2017 00:56
Instrument: 10airB.i
Lab Sample ID: 10379458009

Compound: n-Nonane
CAS Number: 111-84-2

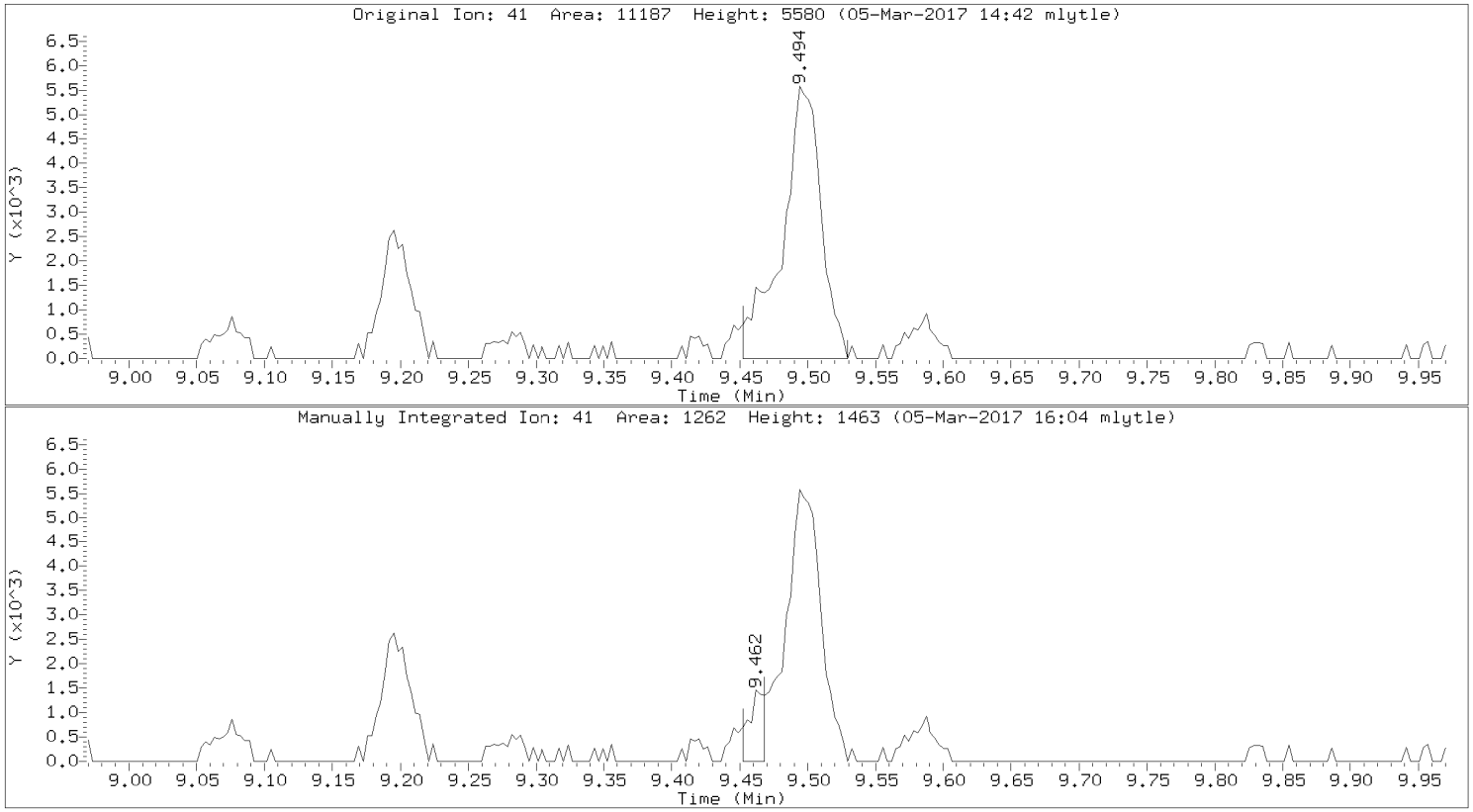








Data File: \\192.168.10.12\chem\10airB.i\030417.b/06336.D
Injection Date: 05-MAR-2017 00:56
Instrument: 10airB.i
Lab Sample ID: 10379458009



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-E16_20170215 **Lab ID: 10379458009** Collected: 02/15/17 17:09 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**102**	ug/m3	5.0	0.48	2.01		03/05/17 00:56	67-63-0	
Styrene	**0.92J**	ug/m3	1.7	0.39	2.01		03/05/17 00:56	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	1.4	0.66	2.01		03/05/17 00:56	79-34-5	
Tetrachloroethene	**1.3J**	ug/m3	1.4	0.56	2.01		03/05/17 00:56	127-18-4	
Toluene	**3.5**	ug/m3	1.5	0.31	2.01		03/05/17 00:56	108-88-3	
1,2,4-Trichlorobenzene	**<1.8**	ug/m3	7.6	1.8	2.01		03/05/17 00:56	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	2.2	0.50	2.01		03/05/17 00:56	71-55-6	
1,1,2-Trichloroethane	**<0.49**	ug/m3	1.1	0.49	2.01		03/05/17 00:56	79-00-5	
Trichloroethene	**<0.55**	ug/m3	1.1	0.55	2.01		03/05/17 00:56	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.3	0.27	2.01		03/05/17 00:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.61**	ug/m3	3.2	0.61	2.01		03/05/17 00:56	76-13-1	
1,2,4-Trimethylbenzene	**<0.25**	ug/m3	2.0	0.25	2.01		03/05/17 00:56	95-63-6	
1,3,5-Trimethylbenzene	**<0.37**	ug/m3	2.0	0.37	2.01		03/05/17 00:56	108-67-8	
Vinyl chloride	**<0.39**	ug/m3	0.52	0.39	2.01		03/05/17 00:56	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.6	1.6	2.01		03/05/17 00:56	179601-23-1	
o-Xylene	**<0.71**	ug/m3	1.8	0.71	2.01		03/05/17 00:56	95-47-6	

Sample: IA-D7_20170215 **Lab ID: 10379458010** Collected: 02/15/17 16:06 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**52.9**	ug/m3	4.9	1.7	2.01		03/05/17 13:42	67-64-1	
Allyl chloride	**<0.46**	ug/m3	3.2	0.46	2.01		03/05/17 13:42	107-05-1	
Benzene	**1.5**	ug/m3	0.65	0.25	2.01		03/05/17 13:42	71-43-2	
Bromodichloromethane	**<0.39**	ug/m3	2.7	0.39	2.01		03/05/17 13:42	75-27-4	
Bromoform	**<1.8**	ug/m3	4.2	1.8	2.01		03/05/17 13:42	75-25-2	
Bromomethane	**<0.62**	ug/m3	1.6	0.62	2.01		03/05/17 13:42	74-83-9	
1,3-Butadiene	**<0.35**	ug/m3	0.90	0.35	2.01		03/05/17 13:42	106-99-0	
2-Butanone (MEK)	**5.7J**	ug/m3	6.0	0.46	2.01		03/05/17 13:42	78-93-3	
Carbon disulfide	**<0.20**	ug/m3	1.3	0.20	2.01		03/05/17 13:42	75-15-0	
Carbon tetrachloride	**<0.39**	ug/m3	1.3	0.39	2.01		03/05/17 13:42	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		03/05/17 13:42	108-90-7	
Chlorodifluoromethane	**<0.55**	ug/m3	1.4	0.55	2.01		03/05/17 13:42	75-45-6	
Chloroethane	**<0.39**	ug/m3	1.1	0.39	2.01		03/05/17 13:42	75-00-3	
Chloroform	**3.5**	ug/m3	1.0	0.38	2.01		03/05/17 13:42	67-66-3	
Chloromethane	**<0.22**	ug/m3	0.84	0.22	2.01		03/05/17 13:42	74-87-3	
Chloropentafluoroethane	**<6.5**	ug/m3	6.5	6.5	2.01		03/05/17 13:42	76-15-3	CL
Cyclohexane	**0.75J**	ug/m3	1.4	0.64	2.01		03/05/17 13:42	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.9**	ug/m3	9.9	9.9	2.01		03/05/17 13:42	96-12-8	
Dibromochloromethane	**<1.7**	ug/m3	3.5	1.7	2.01		03/05/17 13:42	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.1	1.6	2.01		03/05/17 13:42	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 13:42	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.5	1.1	2.01		03/05/17 13:42	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-D7_20170215 **Lab ID: 10379458010** Collected: 02/15/17 16:06 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 13:42	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	2.0	0.96	2.01		03/05/17 13:42	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.6	0.32	2.01		03/05/17 13:42	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/m3	0.82	0.41	2.01		03/05/17 13:42	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.6	0.48	2.01		03/05/17 13:42	75-35-4	
cis-1,2-Dichloroethene	**<0.49**	ug/m3	1.6	0.49	2.01		03/05/17 13:42	156-59-2	
trans-1,2-Dichloroethene	**<0.77**	ug/m3	1.6	0.77	2.01		03/05/17 13:42	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/m3	1.9	0.54	2.01		03/05/17 13:42	78-87-5	
cis-1,3-Dichloropropene	**<0.74**	ug/m3	1.8	0.74	2.01		03/05/17 13:42	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/m3	1.8	0.52	2.01		03/05/17 13:42	10061-02-6	
Dichlorotetrafluoroethane	**<0.62**	ug/m3	2.9	0.62	2.01		03/05/17 13:42	76-14-2	
Freon 123	**<6.4**	ug/m3	6.4	6.4	2.01		03/05/17 13:42	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.71**	ug/m3	7.4	0.71	2.01		03/05/17 13:42	123-91-1	
Ethylbenzene	**<0.85**	ug/m3	1.8	0.85	2.01		03/05/17 13:42	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	2.0	0.38	2.01		03/05/17 13:42	622-96-8	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	4.4	1.3	2.01		03/05/17 13:42	87-68-3	
n-Hexane	**<0.72**	ug/m3	1.4	0.72	2.01		03/05/17 13:42	110-54-3	
2-Hexanone	**<0.82**	ug/m3	8.4	0.82	2.01		03/05/17 13:42	591-78-6	
Isopropylbenzene (Cumene)	**<0.28**	ug/m3	5.0	0.28	2.01		03/05/17 13:42	98-82-8	
Methyl acetate	**<3.1**	ug/m3	3.1	3.1	2.01		03/05/17 13:42	79-20-9	
Methylcyclohexane	**<0.49**	ug/m3	1.6	0.49	2.01		03/05/17 13:42	108-87-2	
Methylene Chloride	**7.1**	ug/m3	7.1	1.1	2.01		03/05/17 13:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.44**	ug/m3	8.4	0.44	2.01		03/05/17 13:42	108-10-1	
Methyl-tert-butyl ether	**<0.61**	ug/m3	7.4	0.61	2.01		03/05/17 13:42	1634-04-4	
2-Propanol	**96.7**	ug/m3	5.0	0.48	2.01		03/05/17 13:42	67-63-0	
Styrene	**0.93J**	ug/m3	1.7	0.39	2.01		03/05/17 13:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	1.4	0.66	2.01		03/05/17 13:42	79-34-5	
Tetrachloroethene	**1.2J**	ug/m3	1.4	0.56	2.01		03/05/17 13:42	127-18-4	
Toluene	**3.3**	ug/m3	1.5	0.31	2.01		03/05/17 13:42	108-88-3	
1,2,4-Trichlorobenzene	**<1.8**	ug/m3	7.6	1.8	2.01		03/05/17 13:42	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	2.2	0.50	2.01		03/05/17 13:42	71-55-6	
1,1,2-Trichloroethane	**<0.49**	ug/m3	1.1	0.49	2.01		03/05/17 13:42	79-00-5	
Trichloroethene	**<0.55**	ug/m3	1.1	0.55	2.01		03/05/17 13:42	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.3	0.27	2.01		03/05/17 13:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.61**	ug/m3	3.2	0.61	2.01		03/05/17 13:42	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	2.0	0.25	2.01		03/05/17 13:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.37**	ug/m3	2.0	0.37	2.01		03/05/17 13:42	108-67-8	
Vinyl chloride	**<0.39**	ug/m3	0.52	0.39	2.01		03/05/17 13:42	75-01-4	
m&p-Xylene	**2.7J**	ug/m3	3.6	1.6	2.01		03/05/17 13:42	179601-23-1	
o-Xylene	**0.90J**	ug/m3	1.8	0.71	2.01		03/05/17 13:42	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D
Report Date: 06-Mar-2017 10:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06410.D
Lab Smp Id: 10379458010
Inj Date : 05-MAR-2017 13:42
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 05-Mar-2017 09:58 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 10
Dil Factor: 2.01000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.010	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.012	2.979	(0.538)	15095	1.89664	3.81(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.066	3.021	(0.548)	10832	0.20377	0.410(M)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.558	3.542	(0.635)	1903720	381.651	767(A)	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.664	3.655	(0.654)	4044	0.10866	0.218	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.709	3.713	(0.662)	234695	10.8961	21.9	
19	Isopropyl Alcohol	45	3.780	3.764	(0.675)	422834	19.2484	38.7	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D
Report Date: 06-Mar-2017 10:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.999	3.992	(0.714)	15234	1.00206	2.01	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.436	4.385	(0.792)	16198	0.62381	1.25	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.481	(0.801)	412795	9.55755	9.56	
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.813)	5614	0.94124	1.89(QM)	
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.716	4.713	(0.842)	6642	0.23840	0.479(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.822	4.838	(0.861)	9738	0.34625	0.696	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.452	5.465	(0.974)	10178	0.23247	0.467	
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	5.481	5.484	(0.979)	2324	0.10604	0.213(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1357536	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.880	5.889	(1.050)	3347	0.13681	0.275	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1161935	9.56300	9.56	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.146	7.153	(1.276)	23466	0.42799	0.860	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.568	7.584	(0.876)	12715	0.42581	0.856(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	2542	0.08385	0.169	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	873017	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.069	9.082	(1.050)	15160	0.30081	0.605	
	71 n-Nonane	43	9.471	9.468	(1.096)	3312	0.12741	0.256(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.506	9.507	(1.100)	1303	0.10695	0.215(H)	
	74 o-Xylene	91	9.577	9.581	(1.109)	5175	0.10093	0.203	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D
Report Date: 06-Mar-2017 10:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.899	10.912	(1.262)	2514	0.13264	0.267(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.391	11.378	(2.034)	14254	0.63827	1.28(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	11.510	11.513	(1.332)	7165	0.13816	0.278	
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.854	(1.372)	493701	10.2659	10.3	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.169	(1.641)	11270	0.64947	1.31	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D
Report Date: 06-Mar-2017 10:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06410.D
Lab Smp Id: 10379458010
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

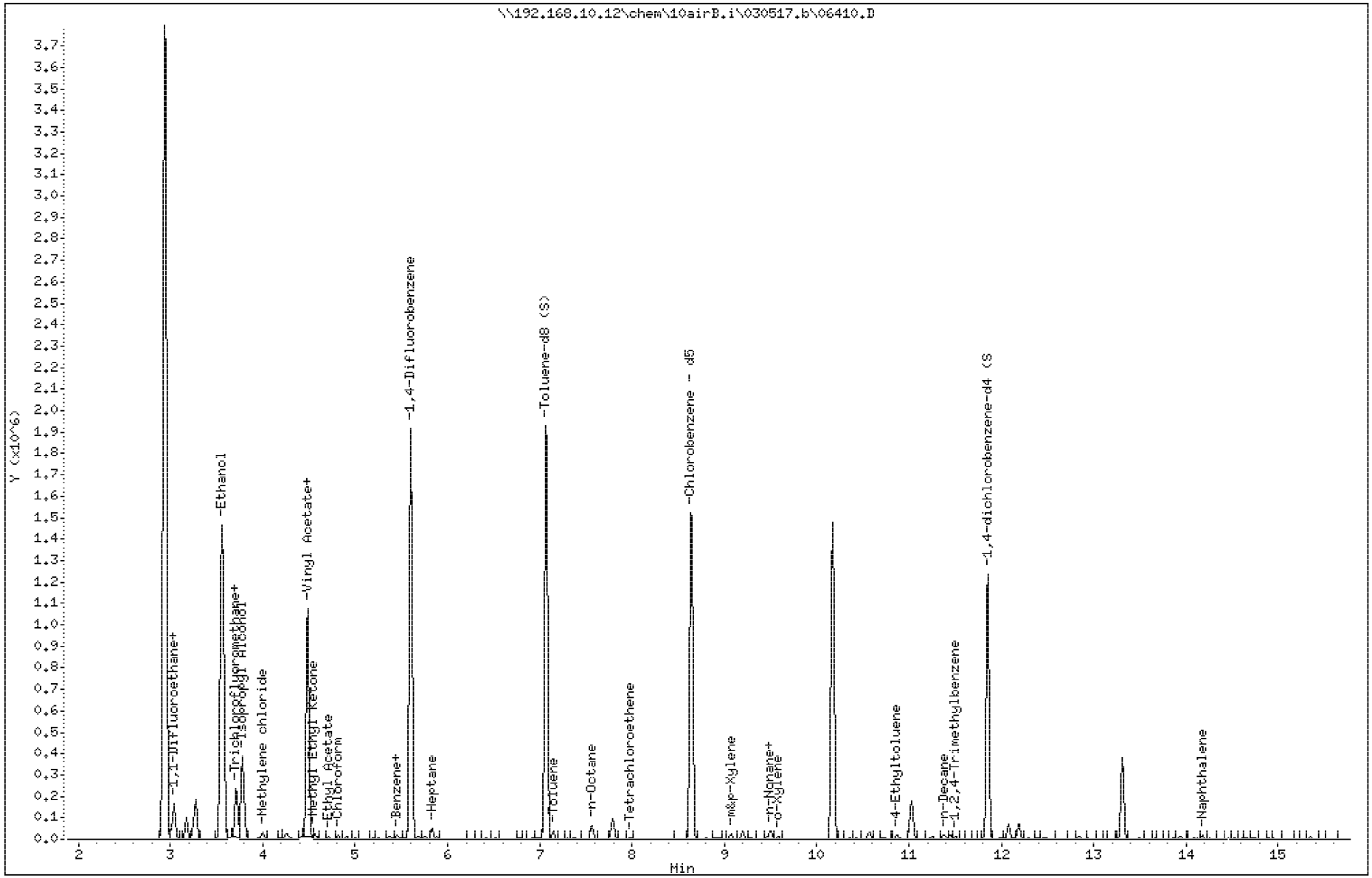
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1357536	-4.00
67 Chlorobenzene - d	951026	570616	1331436	873017	-8.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D
Date : 05-MAR-2017 13:42
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

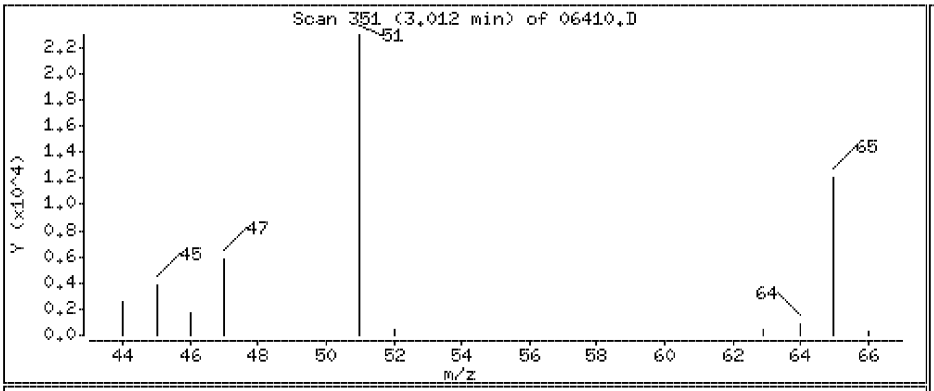
Operator: NCK

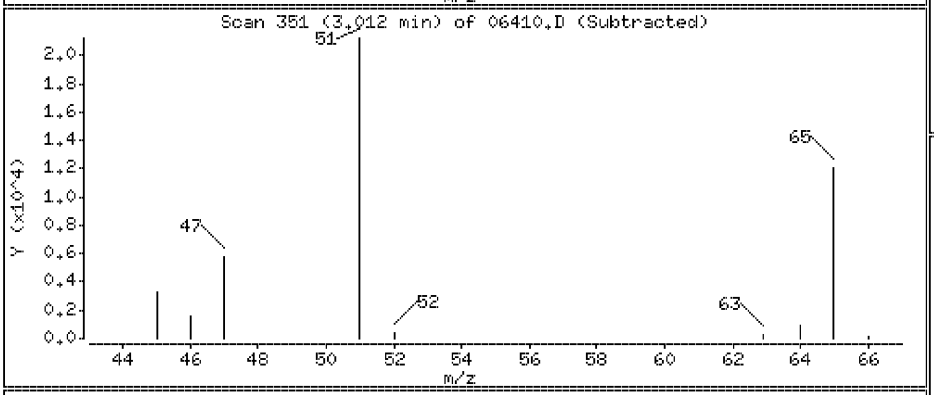
Column phase: J&W DB-5

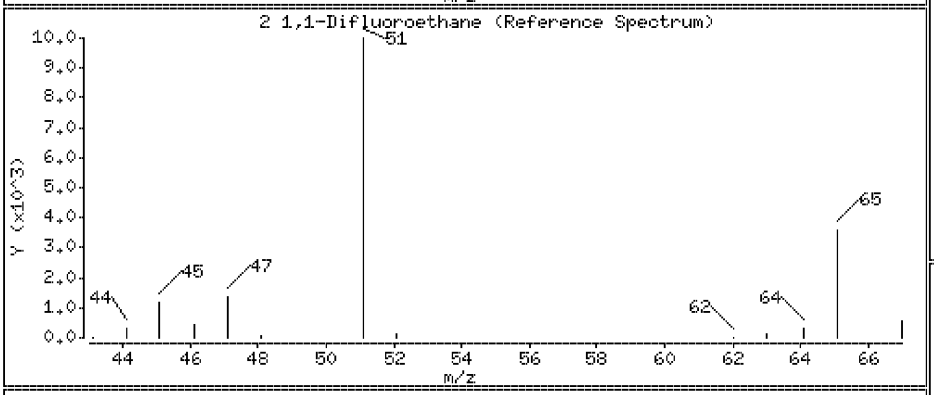
Column diameter: 0.32

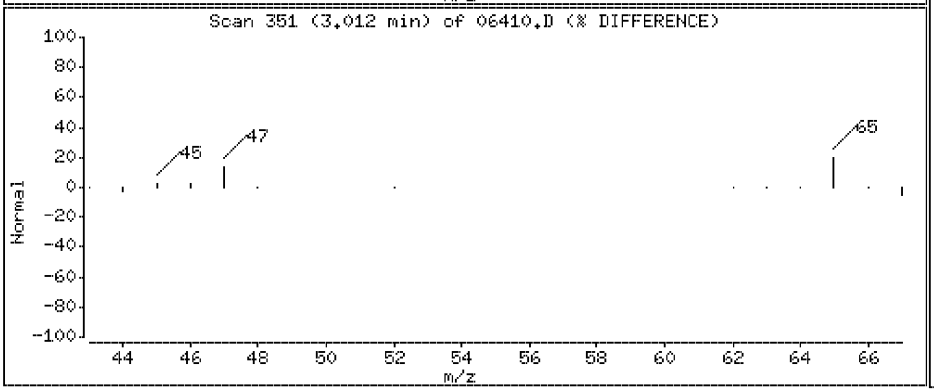
2 1,1-Difluoroethane

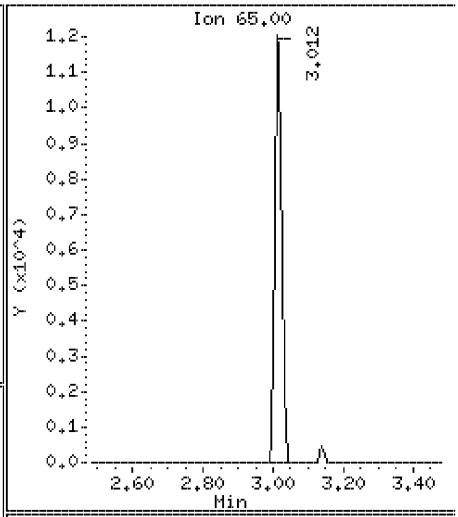
Concentration: 3.81 ppbv

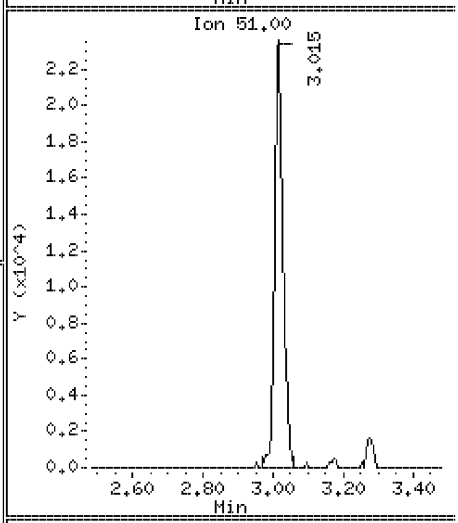


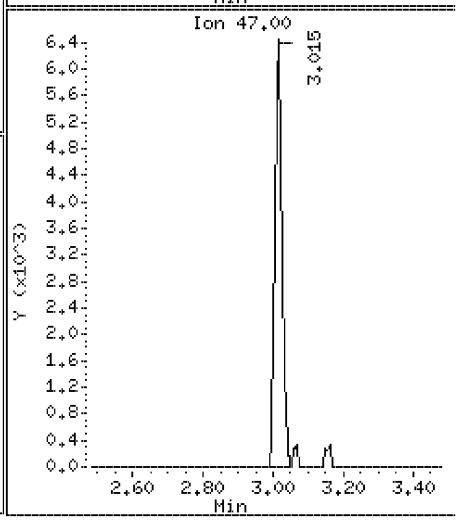












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

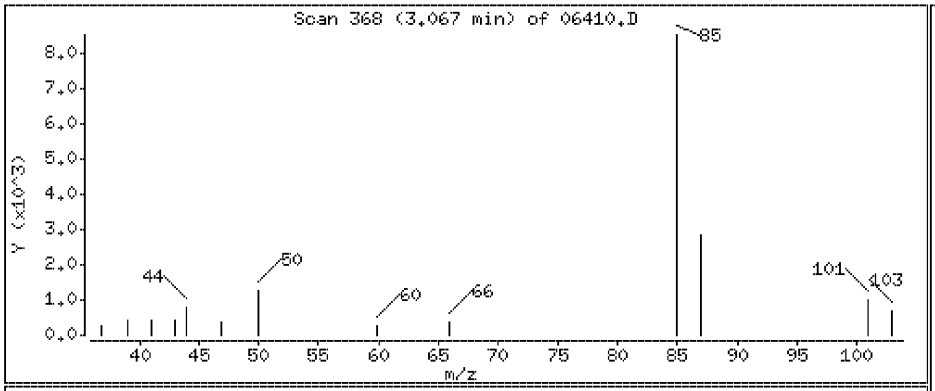
Operator: NCK

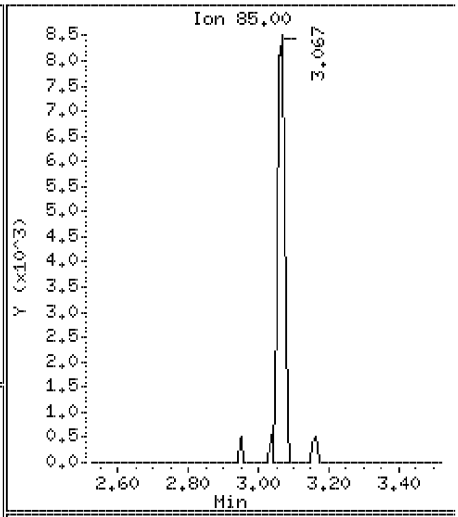
Column phase: J&W DB-5

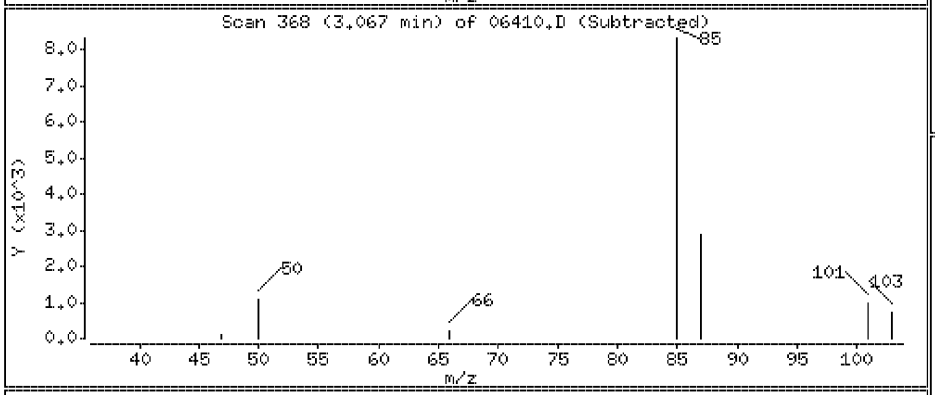
Column diameter: 0.32

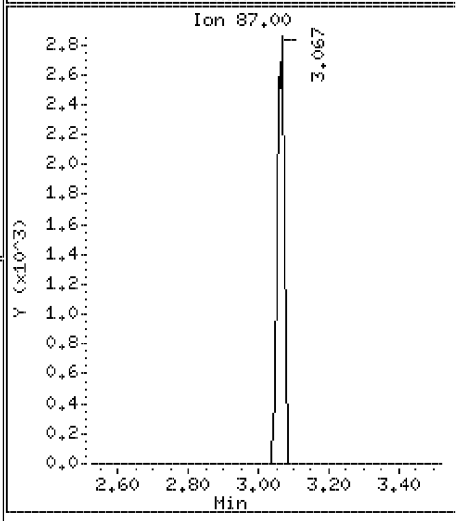
5 Dichlorodifluoromethane

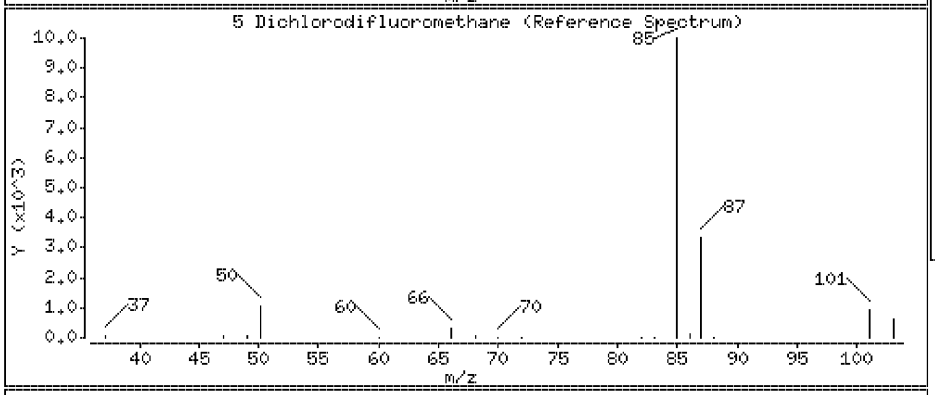
Concentration: 0.410 ppbv

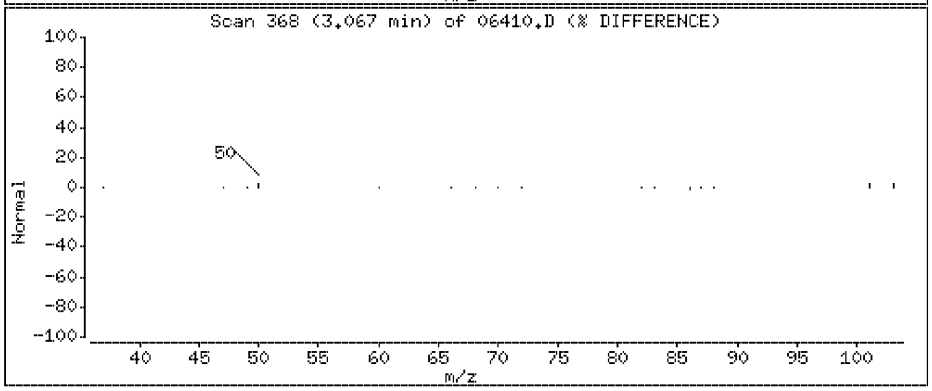












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

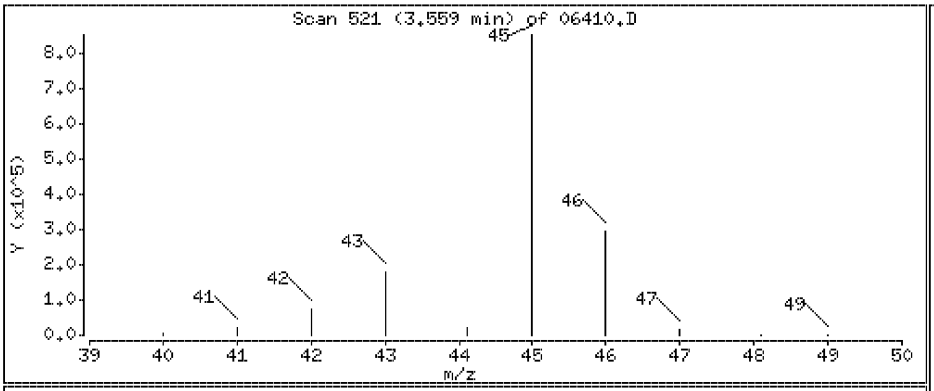
Operator: NCK

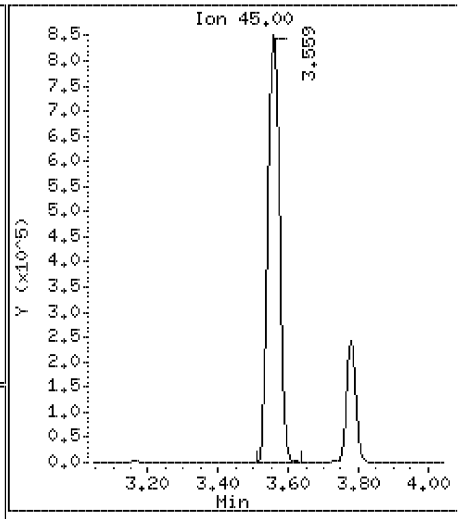
Column phase: J&W DB-5

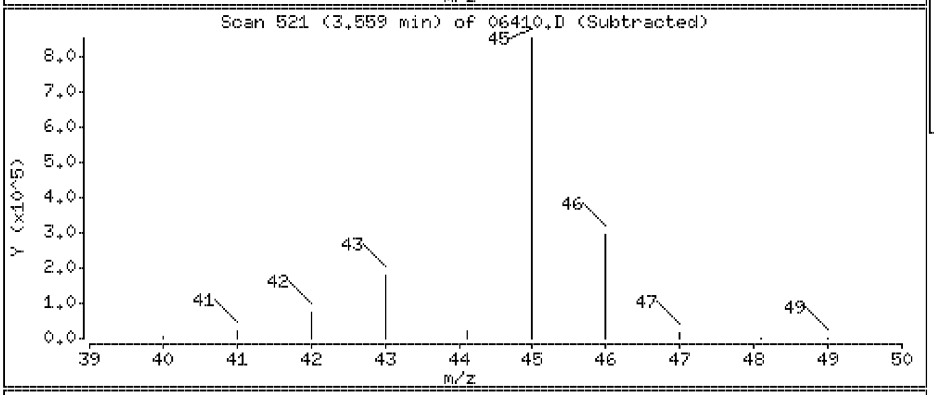
Column diameter: 0.32

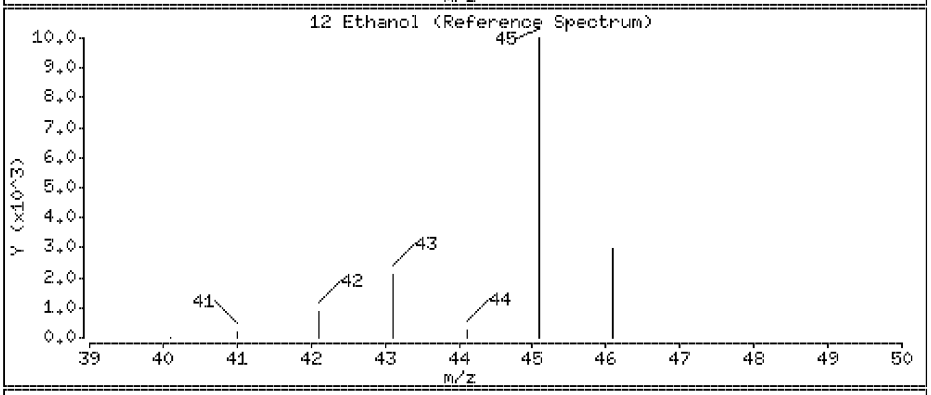
12 Ethanol

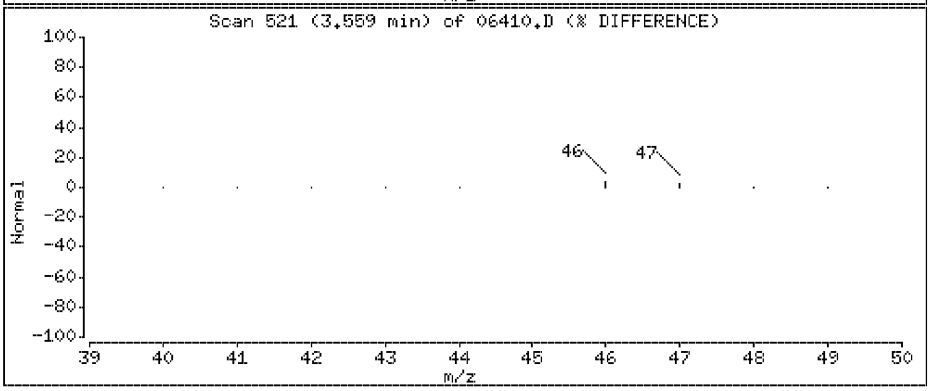
Concentration: 767 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

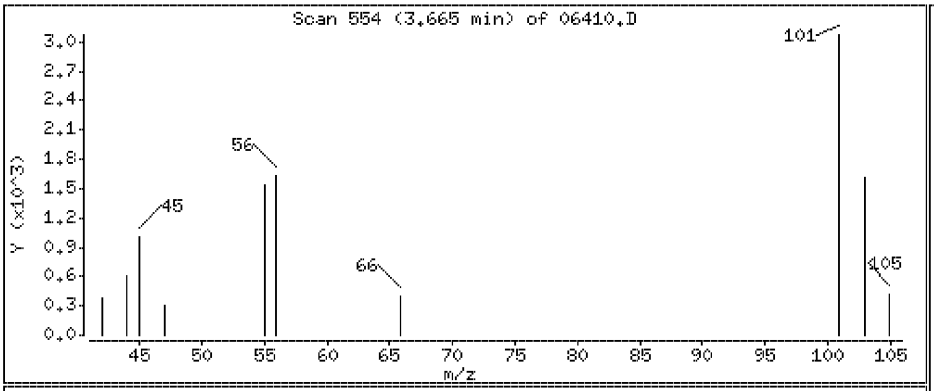
Operator: NCK

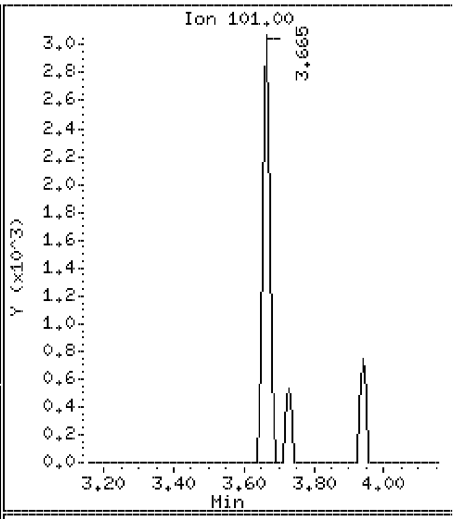
Column phase: J&W DB-5

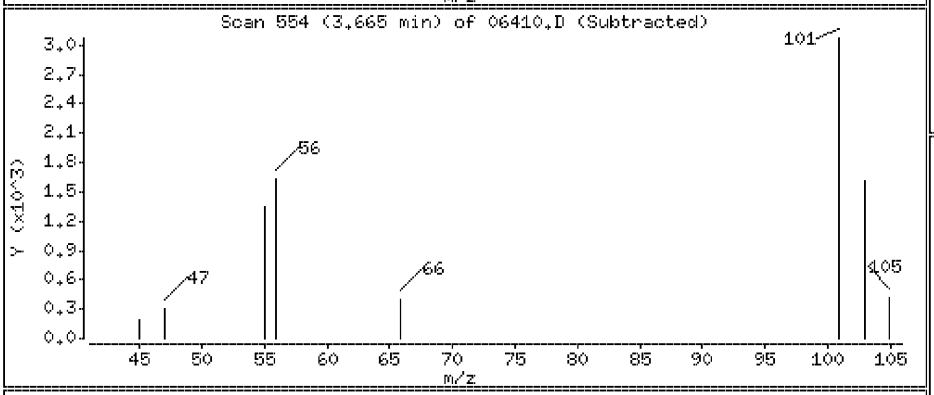
Column diameter: 0.32

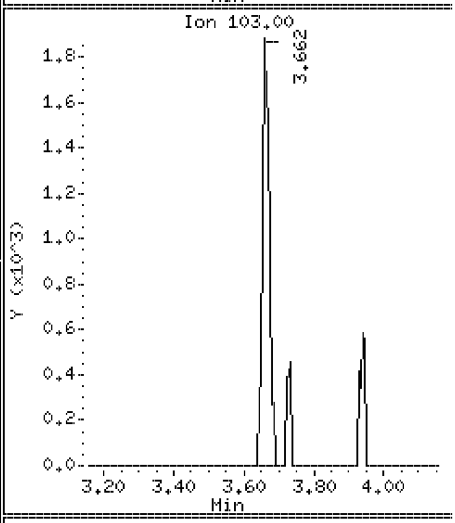
16 Trichlorofluoromethane

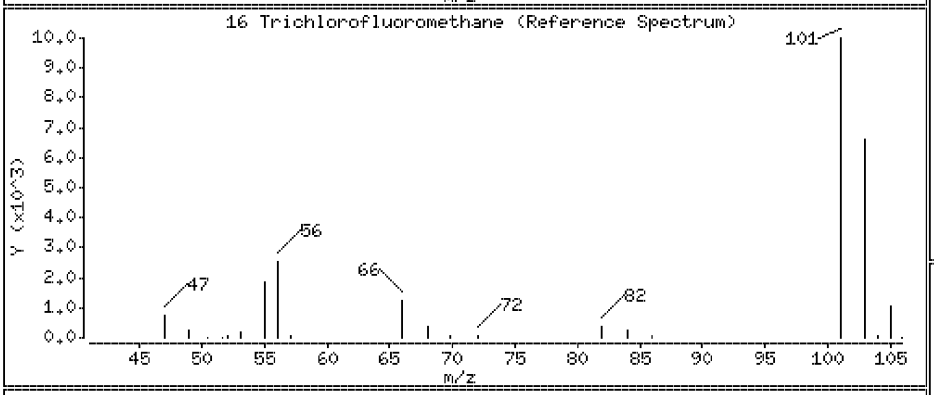
Concentration: 0.218 ppbv

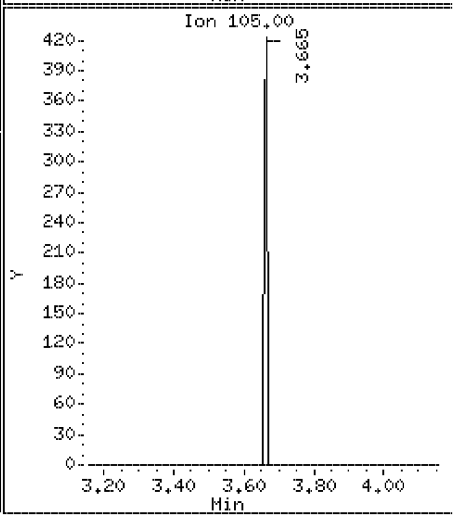


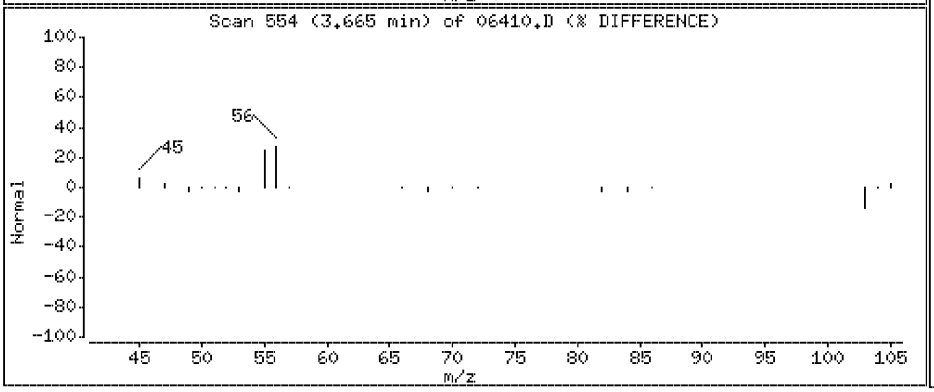












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

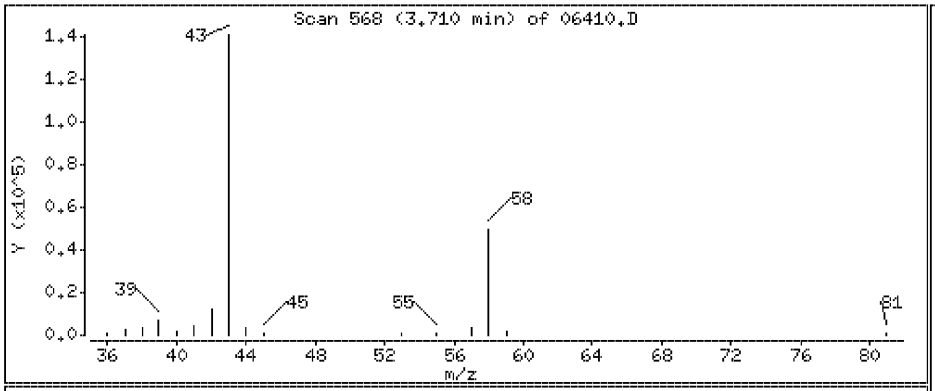
Operator: NCK

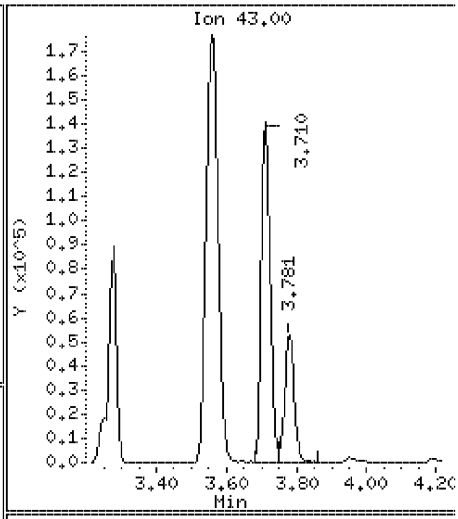
Column phase: J&W DB-5

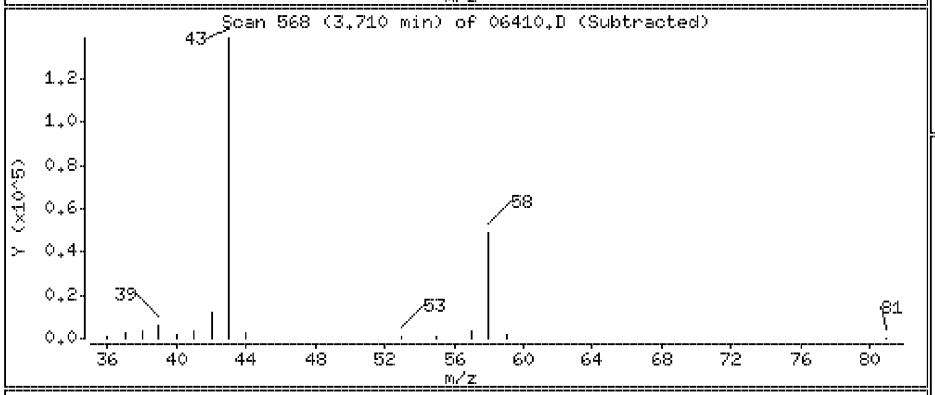
Column diameter: 0.32

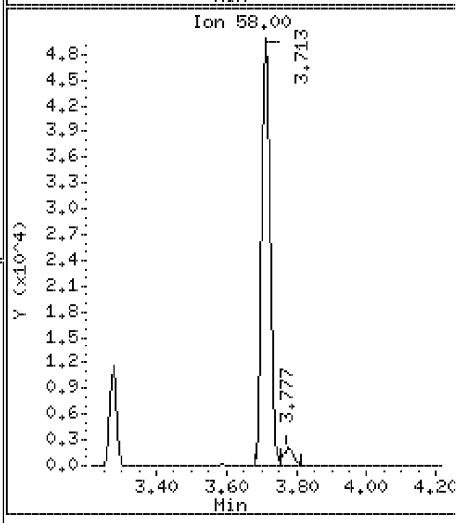
18 Acetone

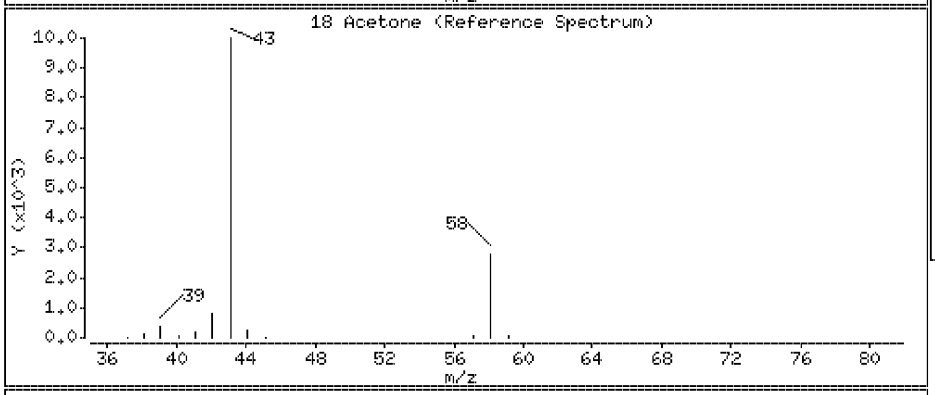
Concentration: 21.9 ppbv

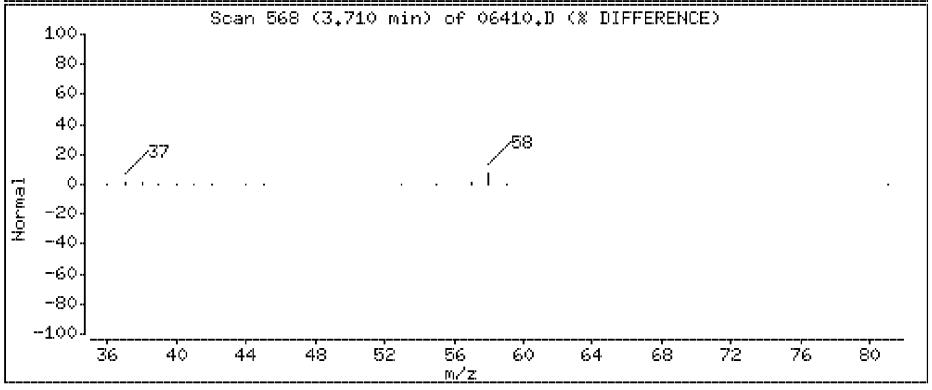












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

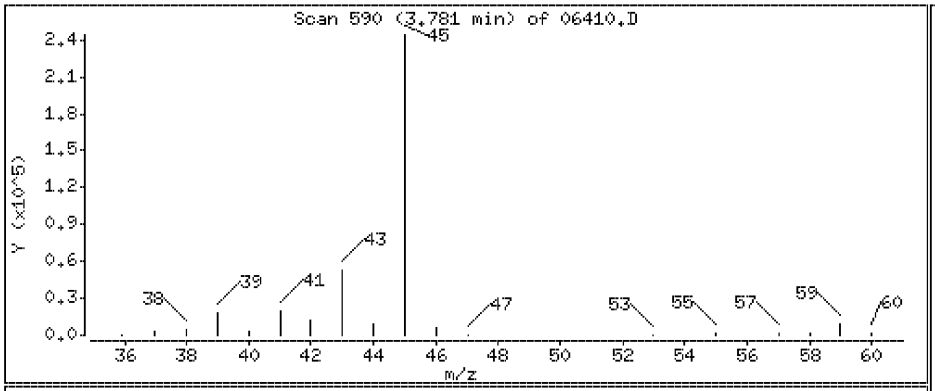
Operator: NCK

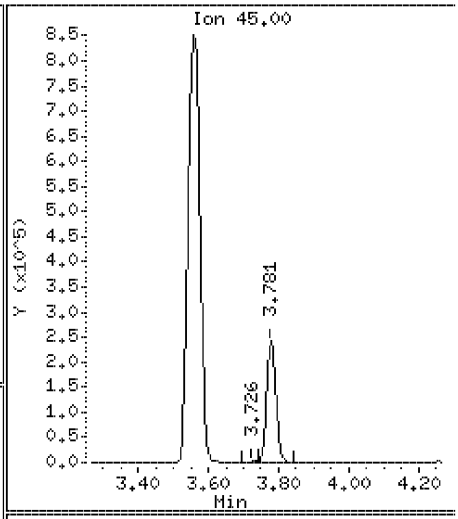
Column phase: J&W DB-5

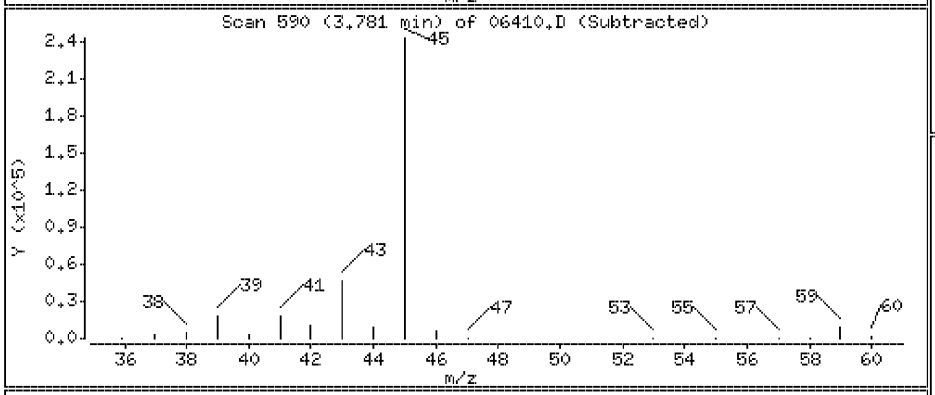
Column diameter: 0.32

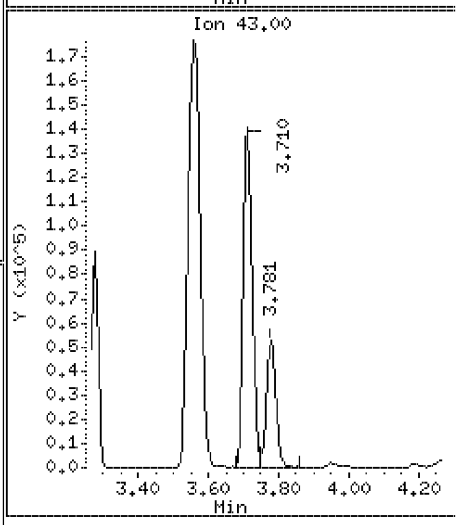
19 Isopropyl Alcohol

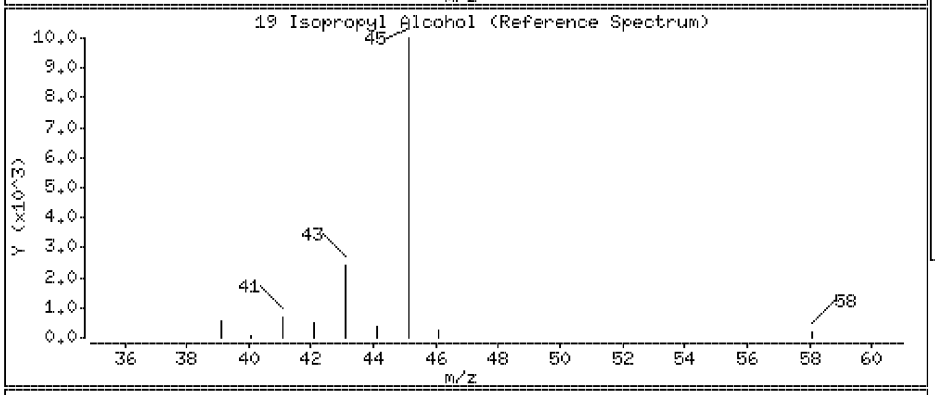
Concentration: 38.7 ppbv

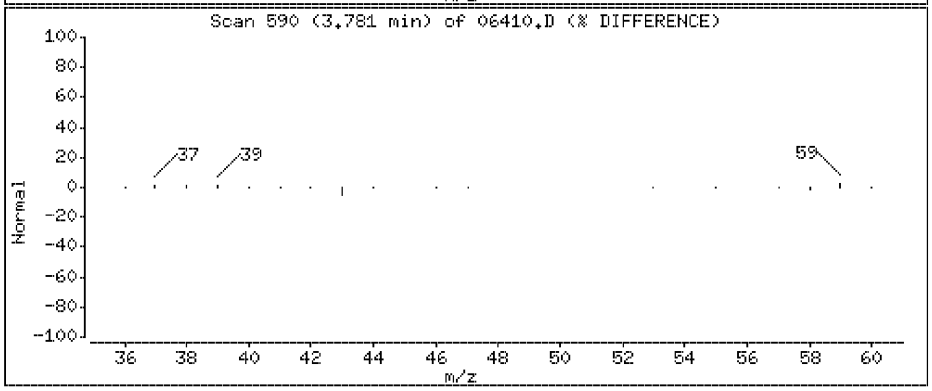












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

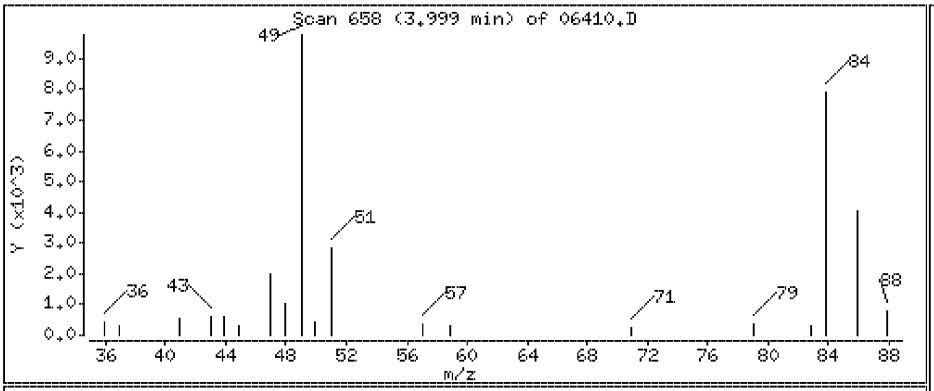
Operator: NCK

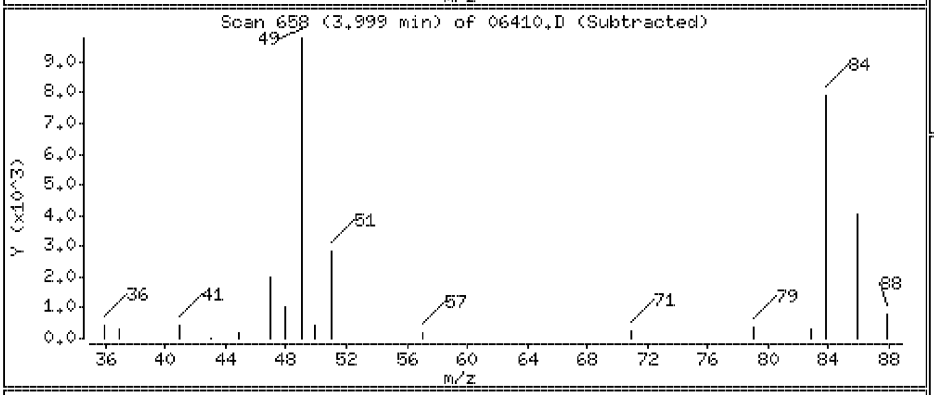
Column phase: J&W DB-5

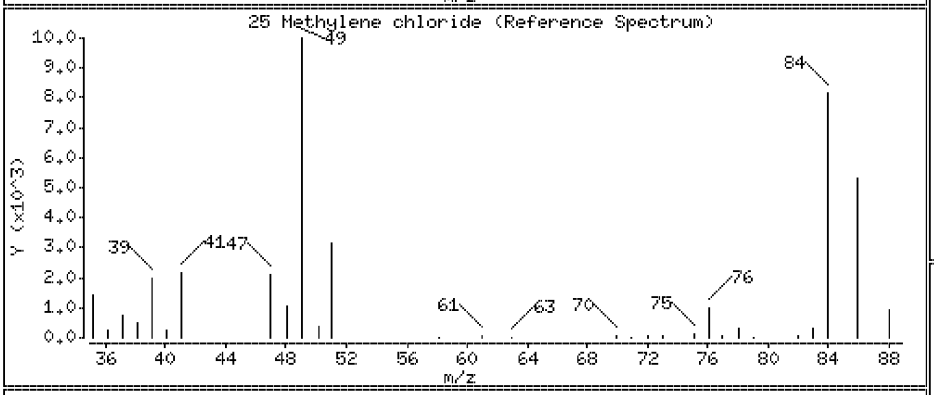
Column diameter: 0.32

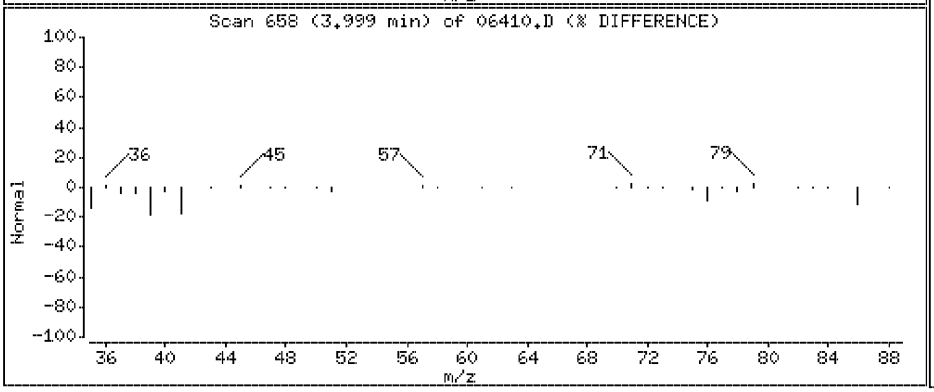
25 Methylene chloride

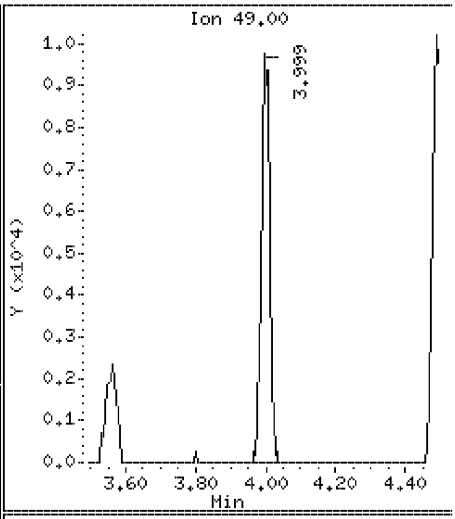
Concentration: 2.01 ppbv

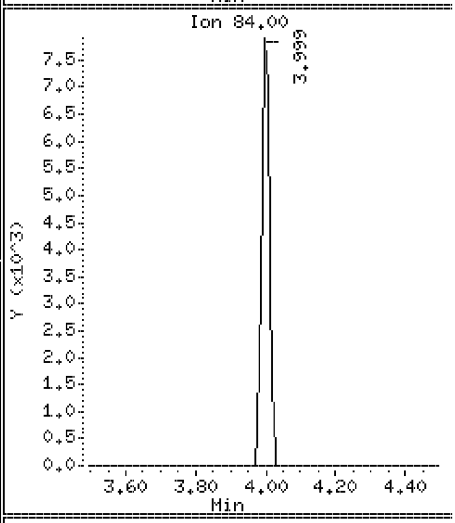


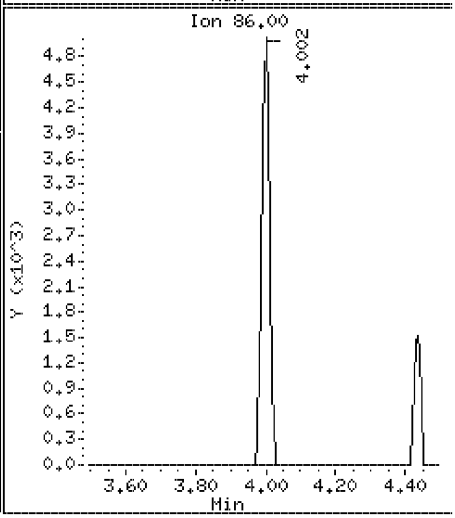












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

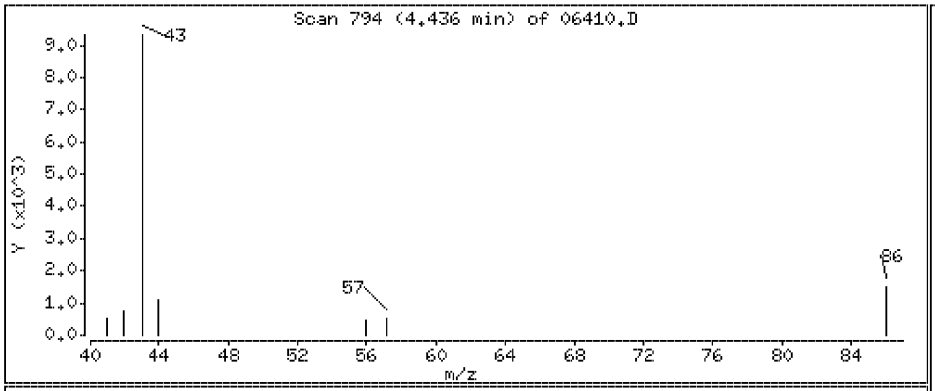
Operator: NCK

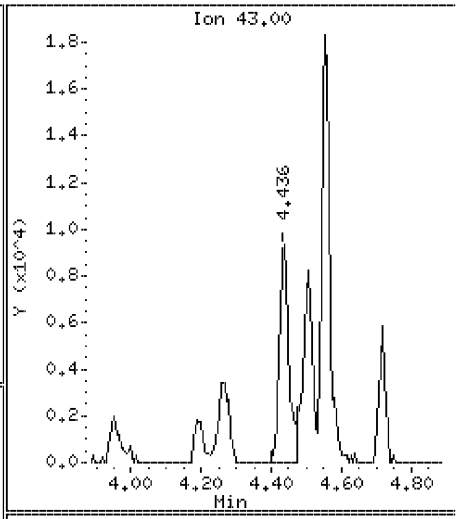
Column phase: J&W DB-5

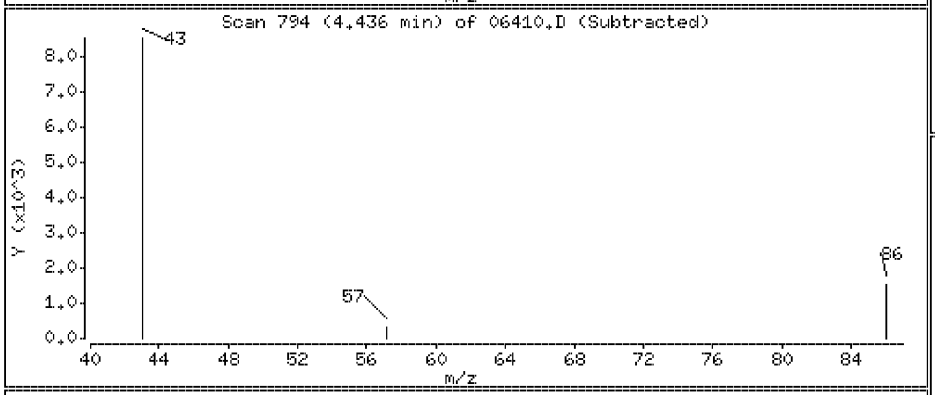
Column diameter: 0.32

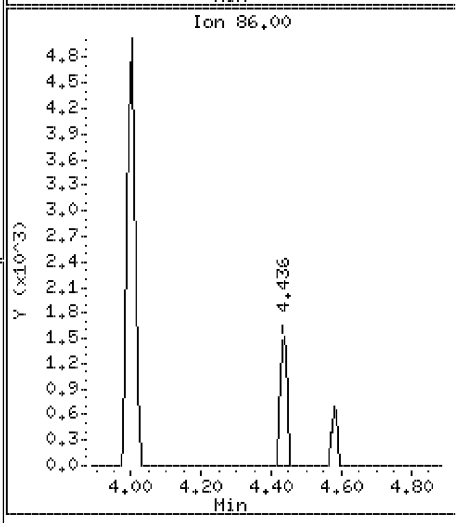
30 Vinyl Acetate

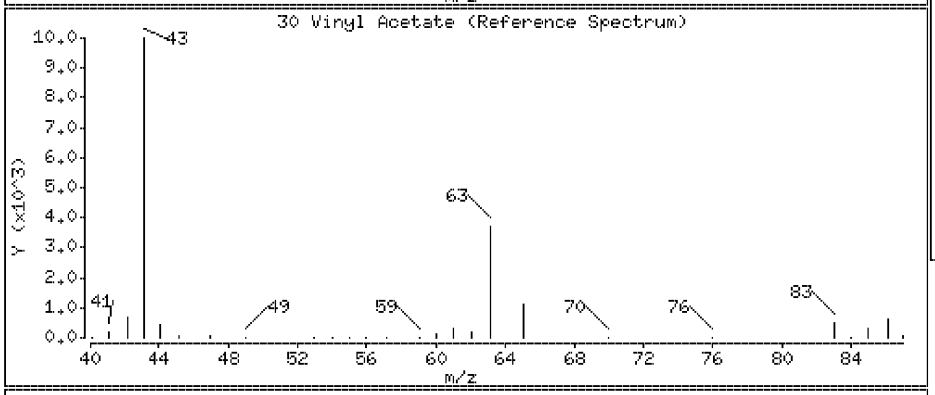
Concentration: 1.25 ppbv

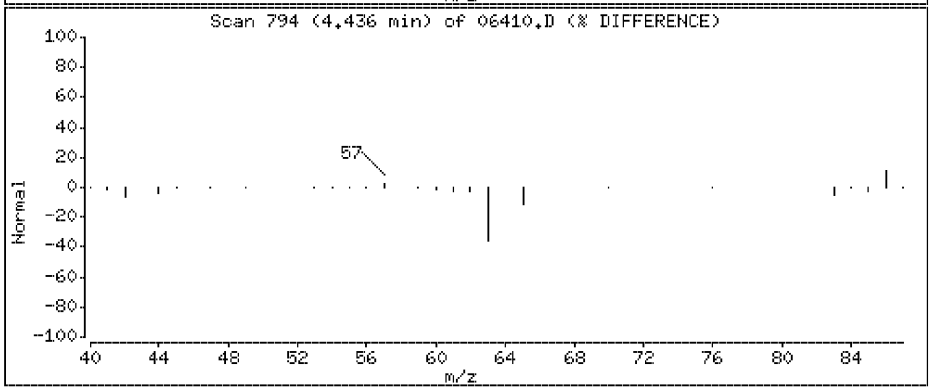












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

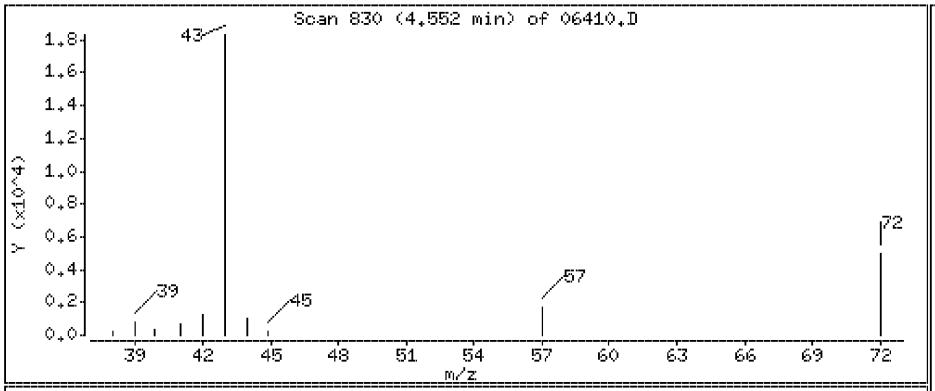
Operator: NCK

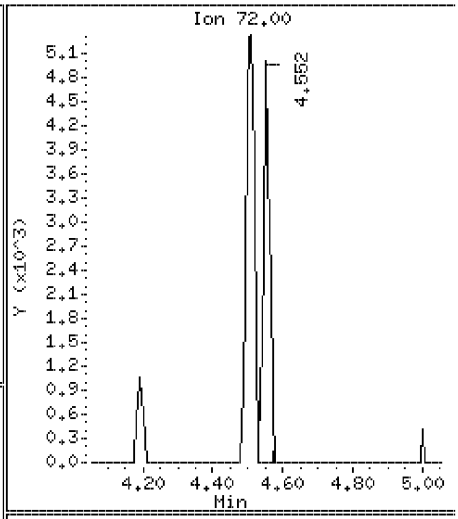
Column phase: J&W DB-5

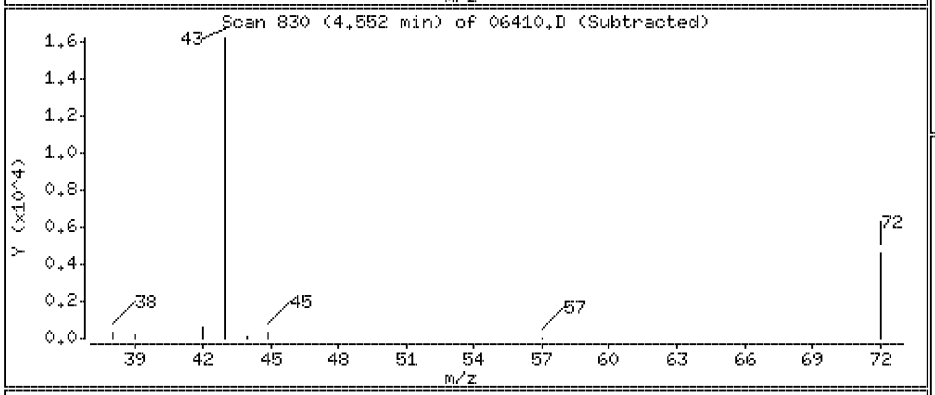
Column diameter: 0.32

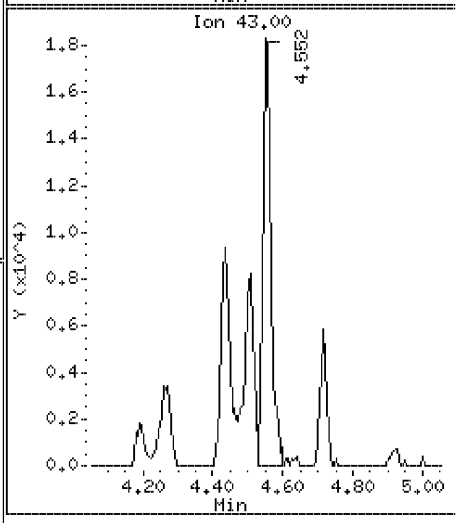
33 Methyl Ethyl Ketone

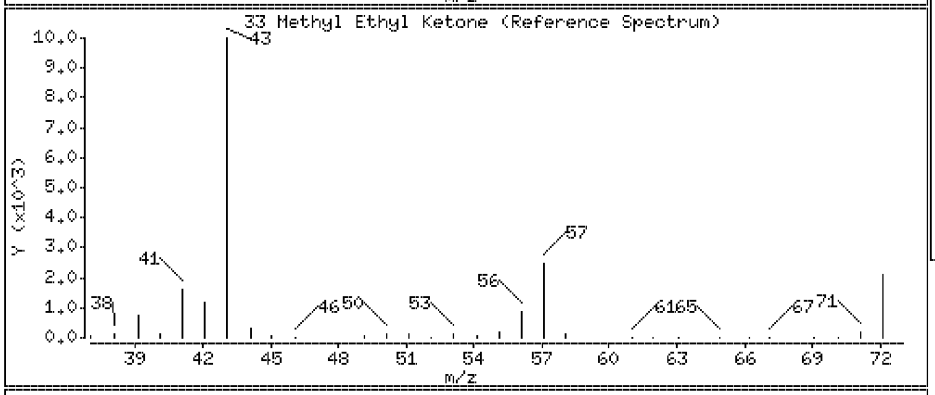
Concentration: 1.89 ppbv

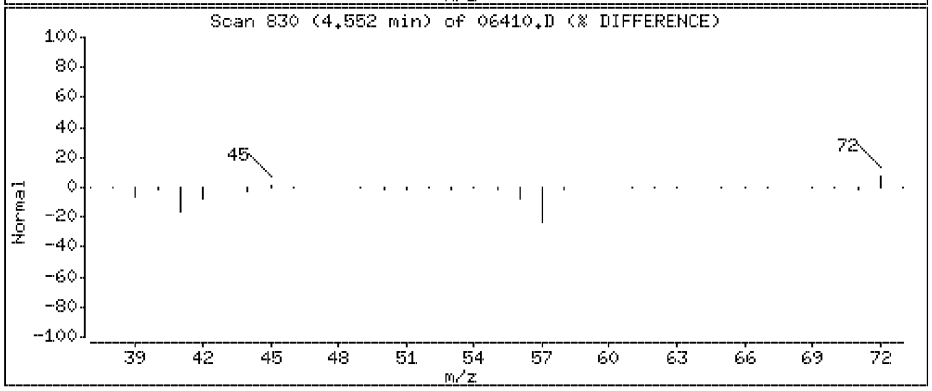












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

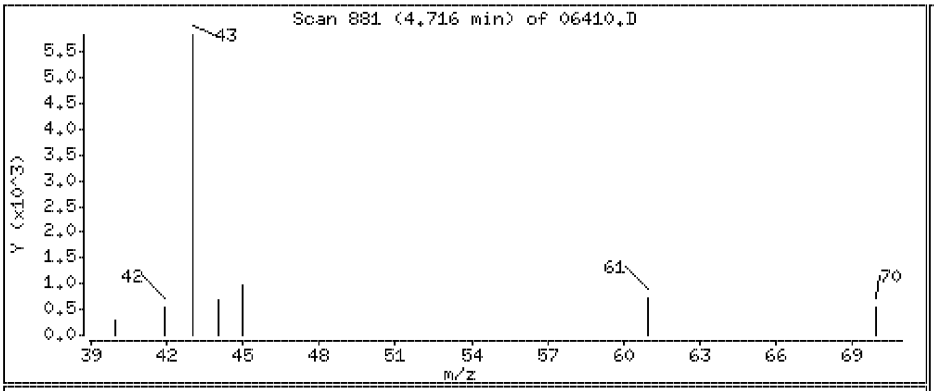
Operator: NCK

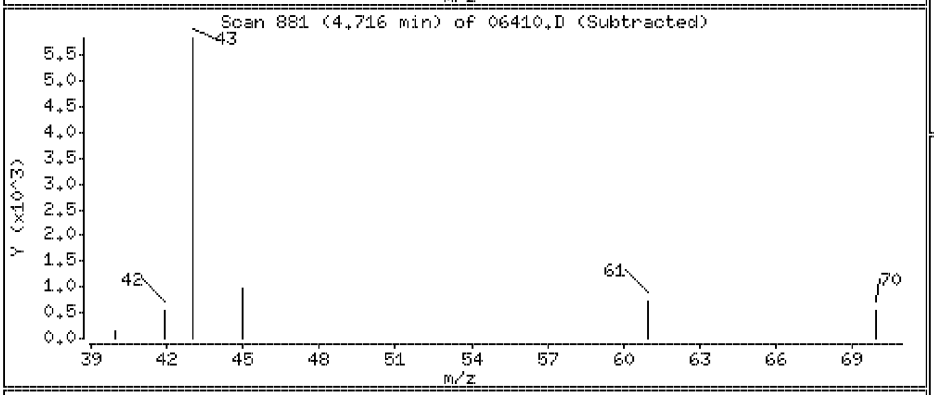
Column phase: J&W DB-5

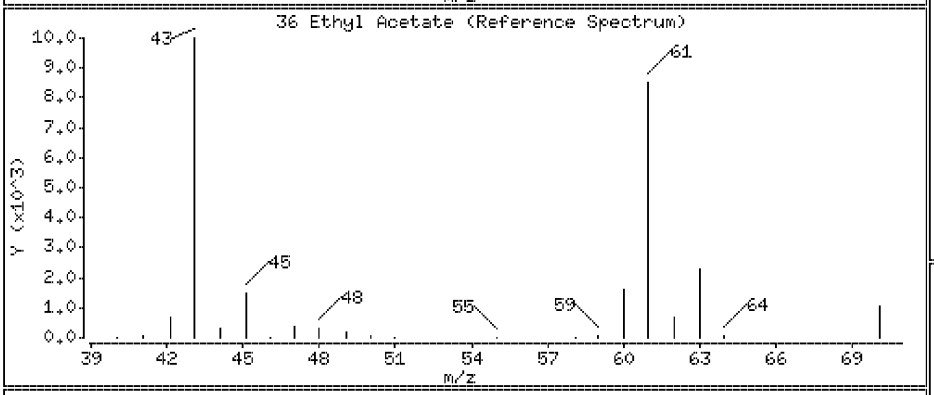
Column diameter: 0.32

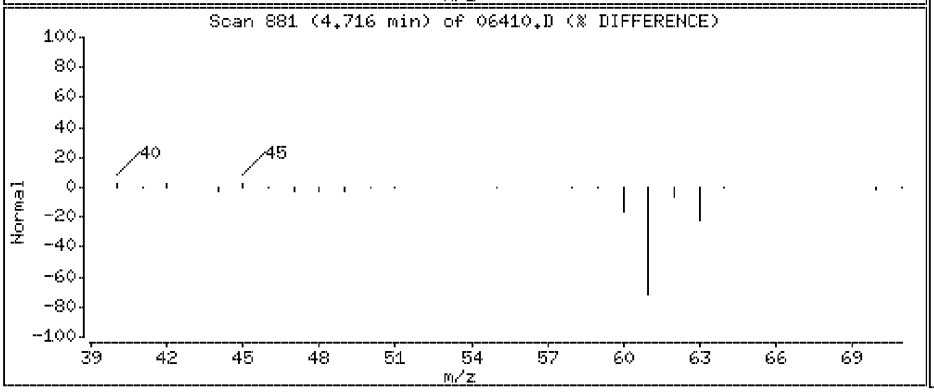
36 Ethyl Acetate

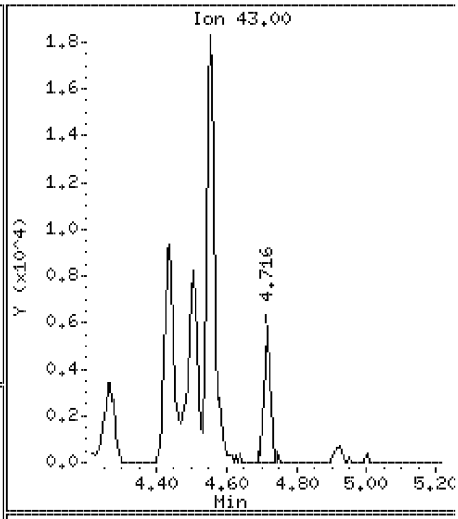
Concentration: 0.479 ppbv

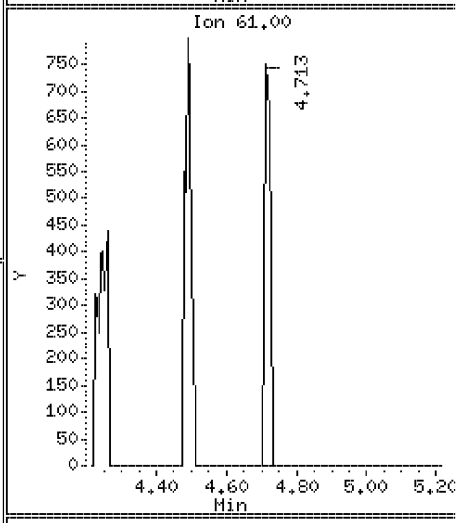


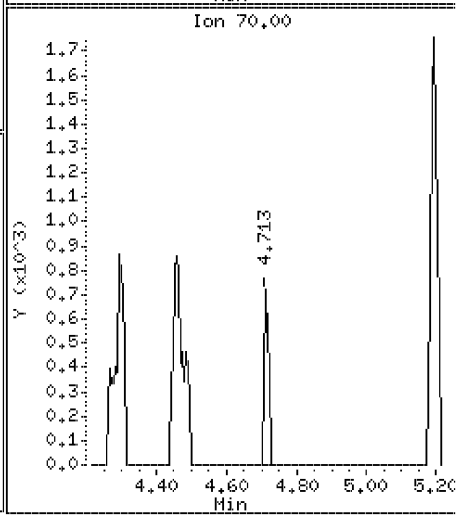












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

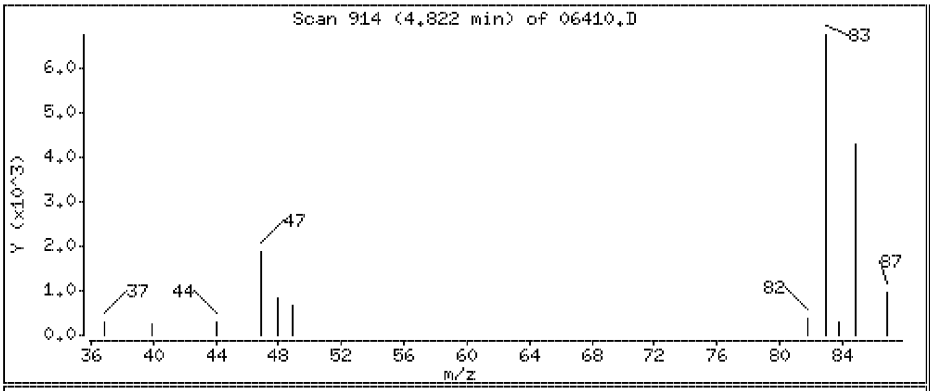
Operator: NCK

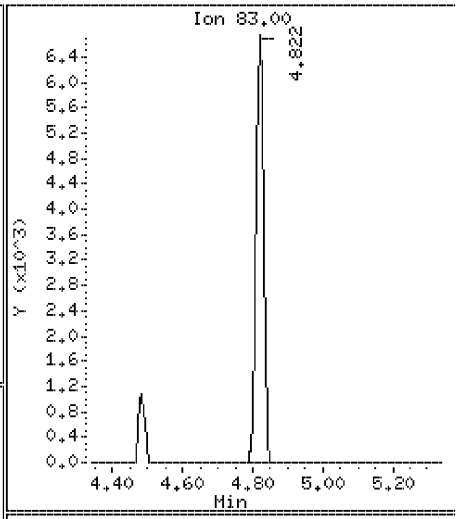
Column phase: J&W DB-5

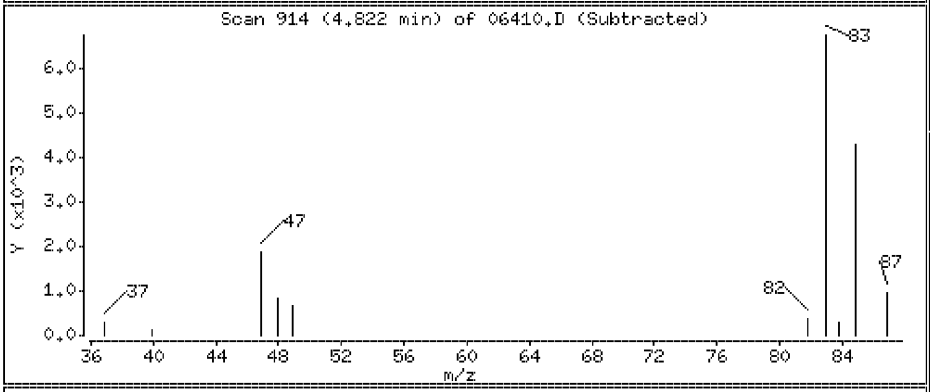
Column diameter: 0.32

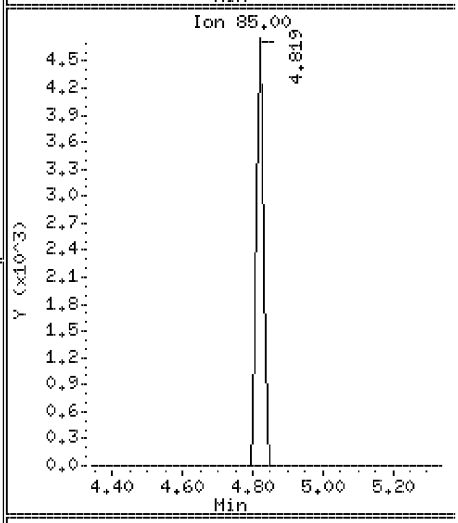
39 Chloroform

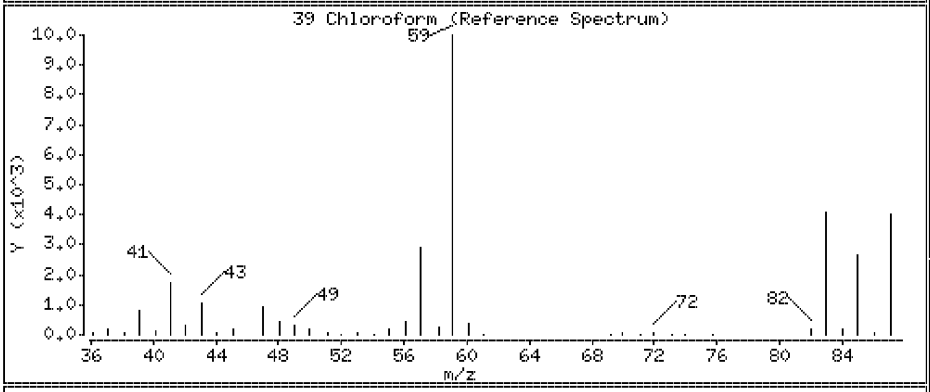
Concentration: 0.696 ppbv

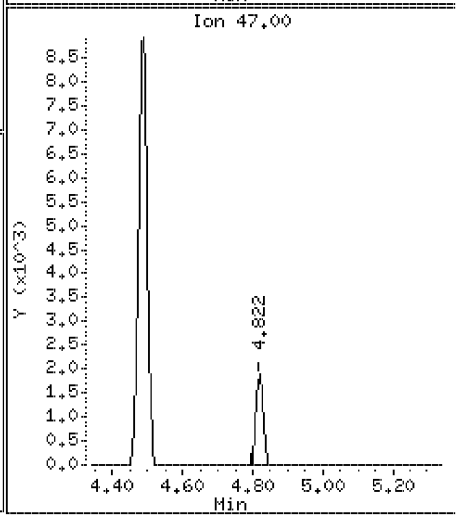


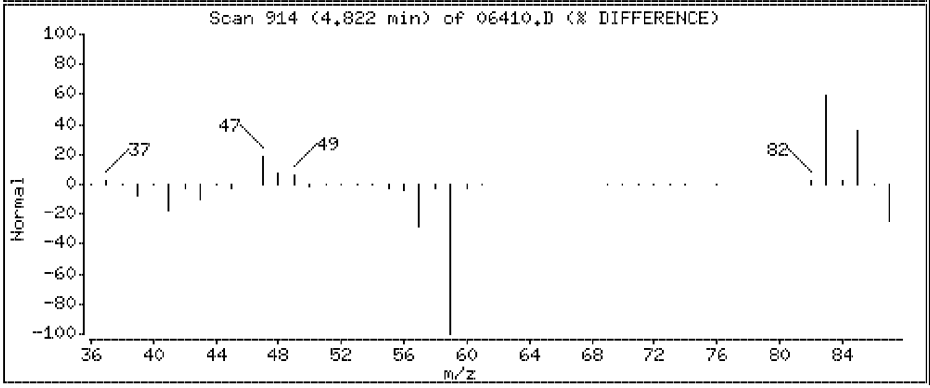












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

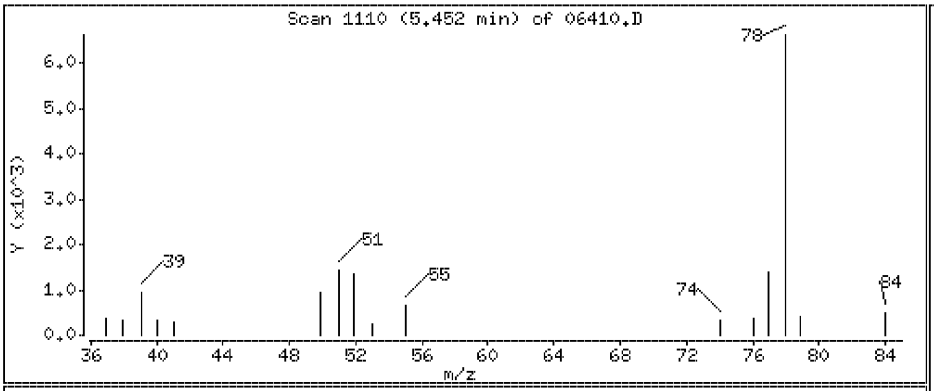
Operator: NCK

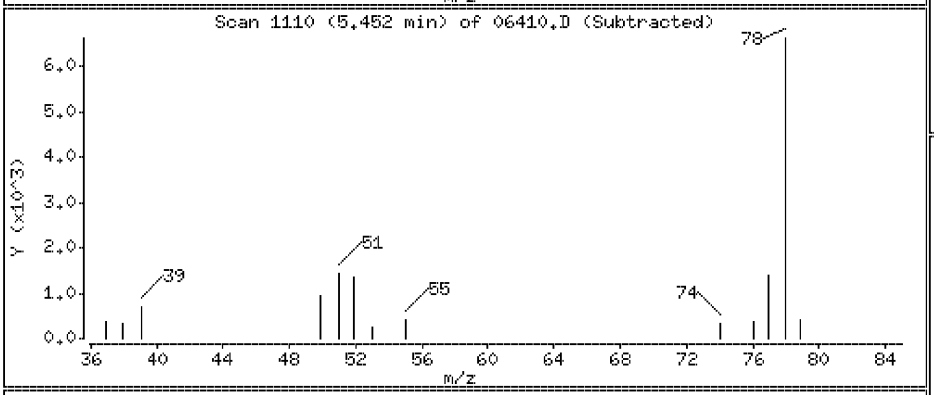
Column phase: J&W DB-5

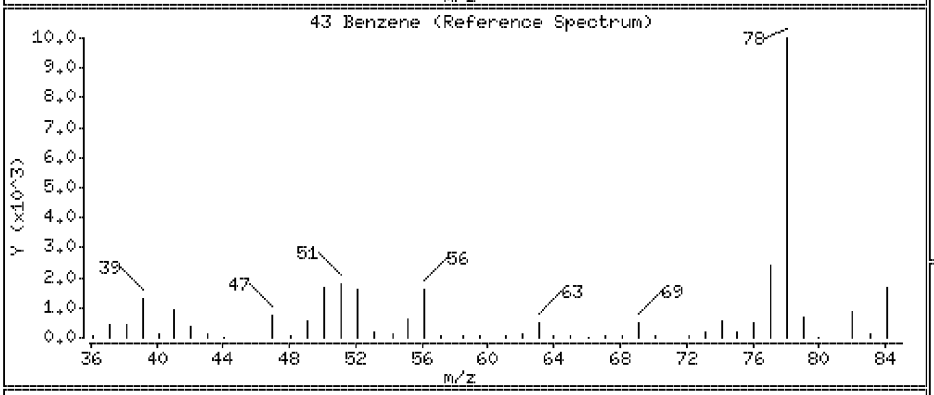
Column diameter: 0.32

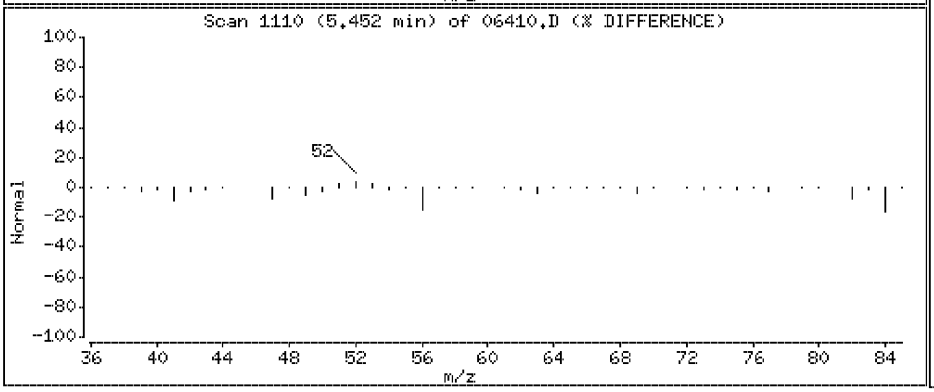
43 Benzene

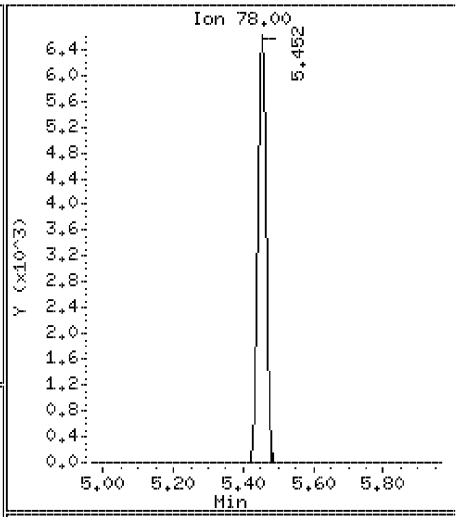
Concentration: 0.467 ppbv

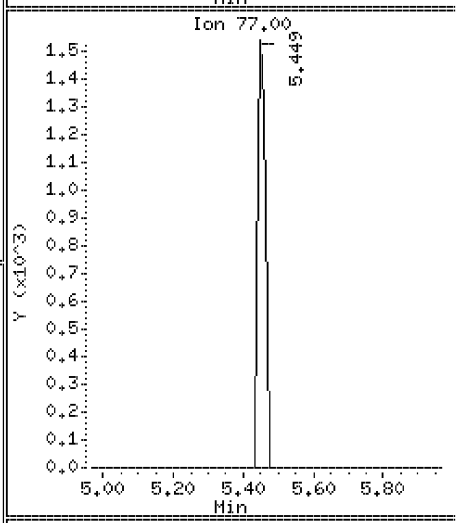


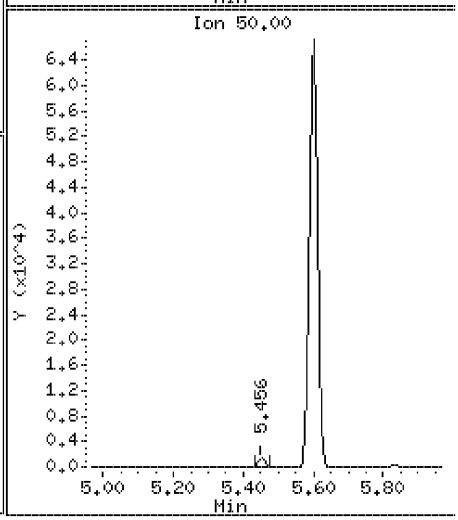












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

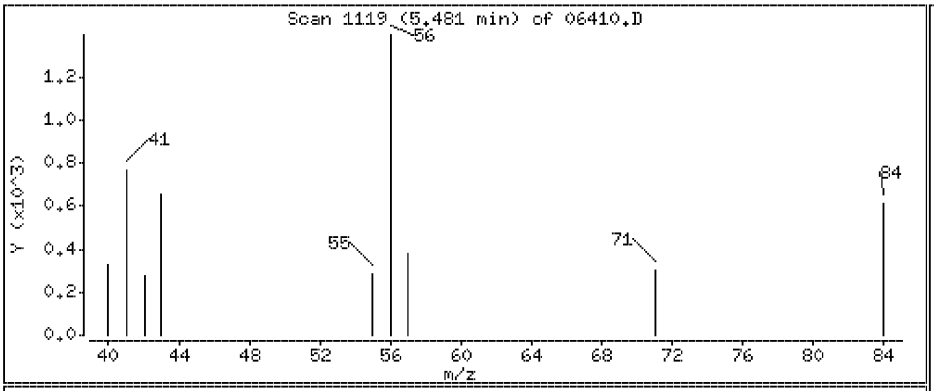
Operator: NCK

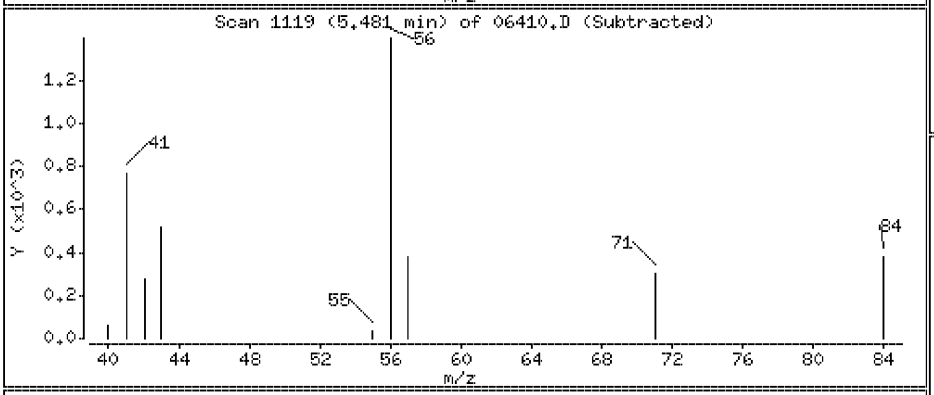
Column phase: J&W DB-5

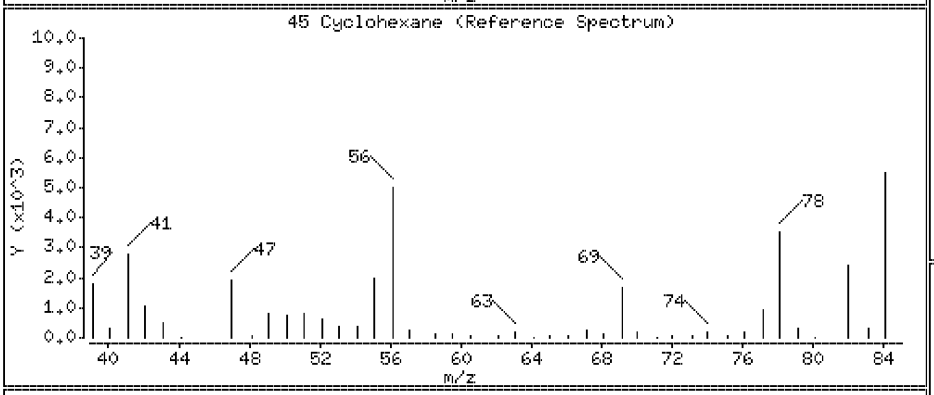
Column diameter: 0.32

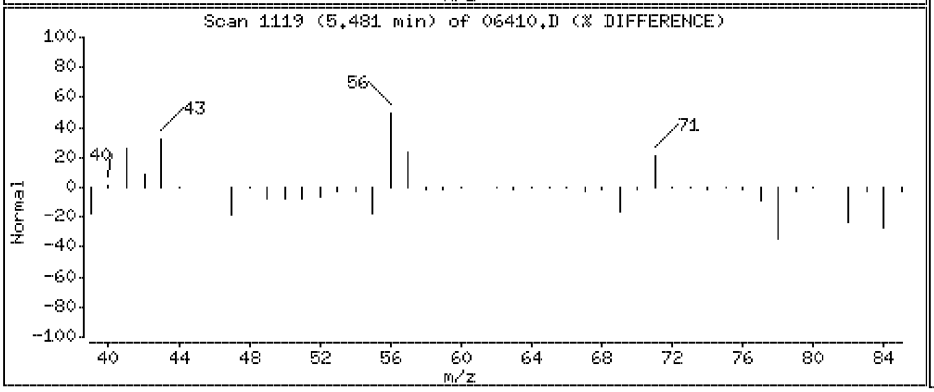
45 Cyclohexane

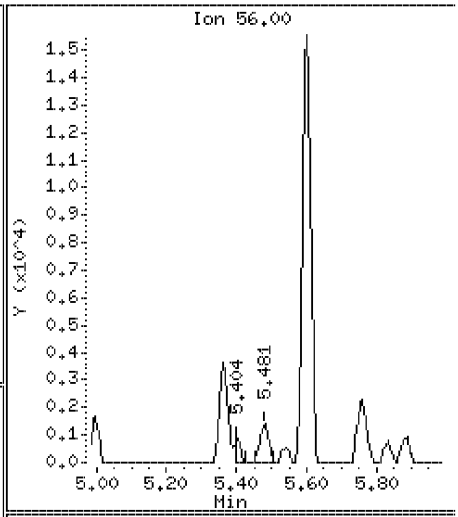
Concentration: 0.213 ppbv

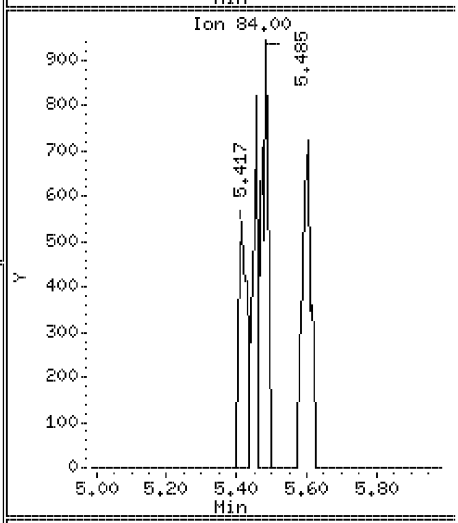


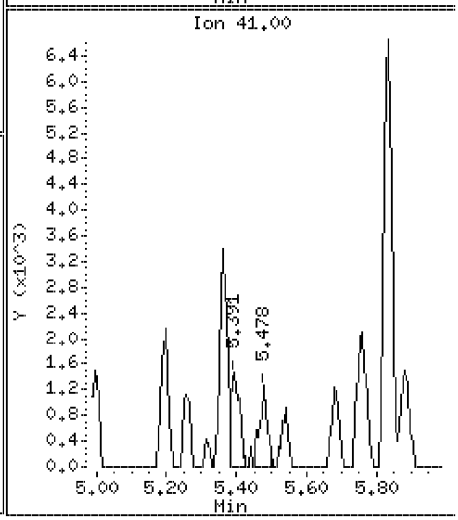












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

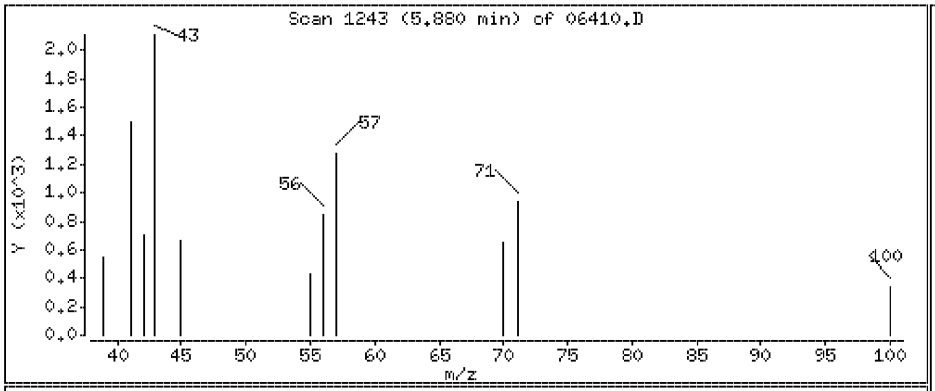
Operator: NCK

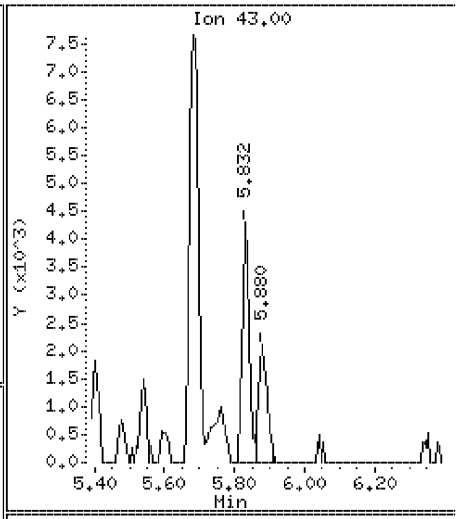
Column phase: J&W DB-5

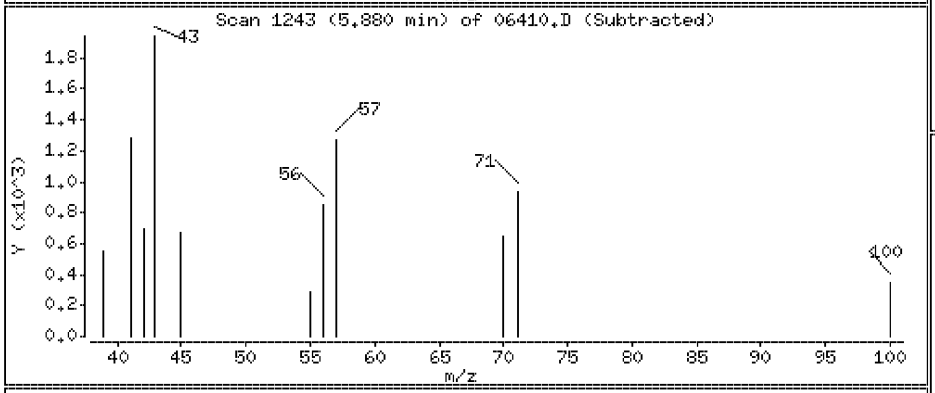
Column diameter: 0.32

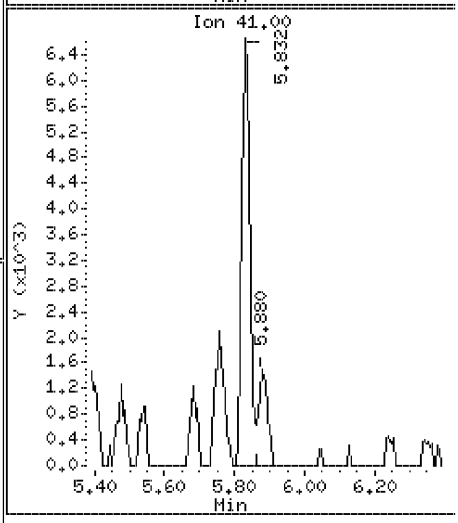
49 Heptane

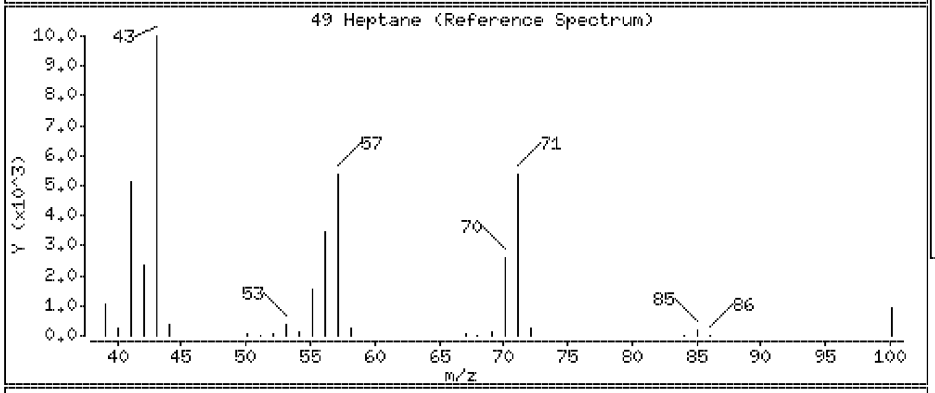
Concentration: 0.275 ppbv

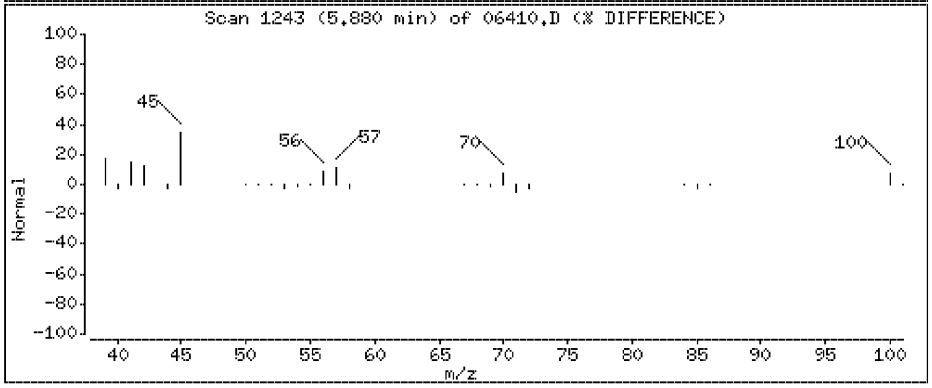












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

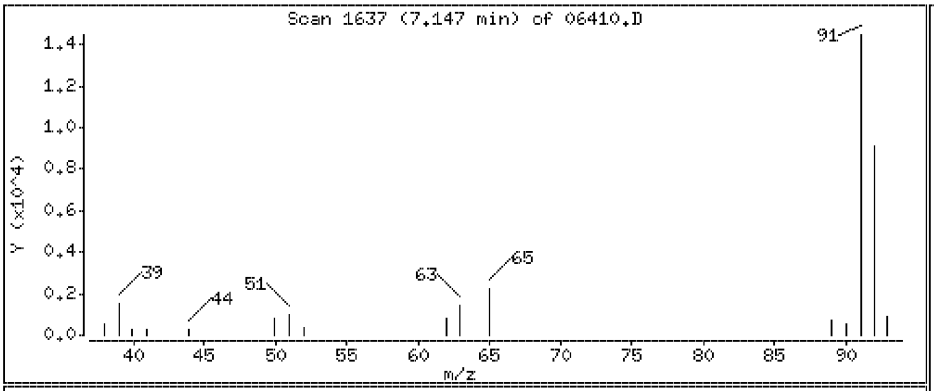
Operator: NCK

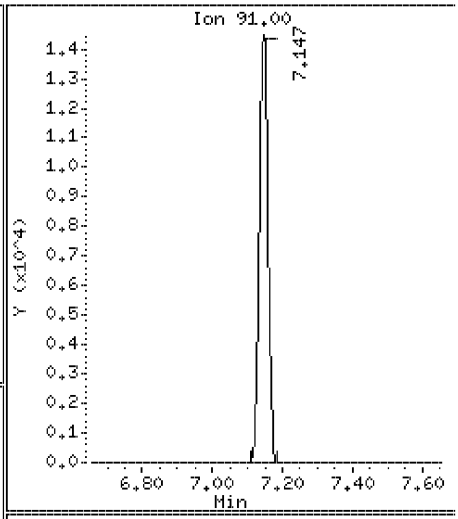
Column phase: J&W DB-5

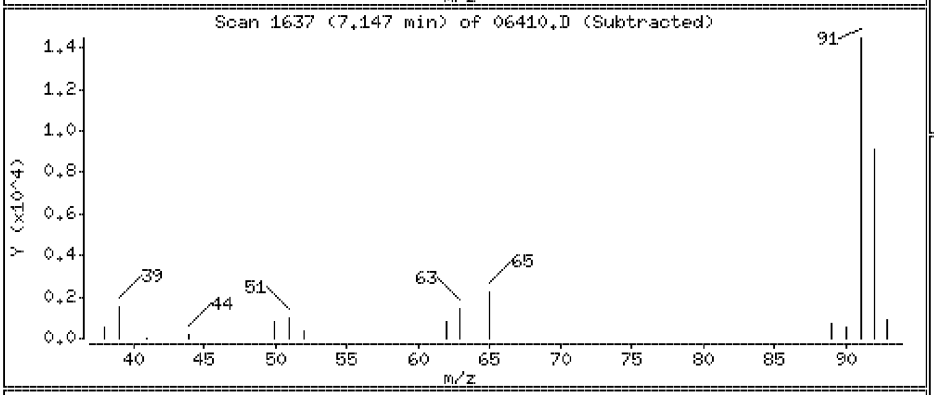
Column diameter: 0.32

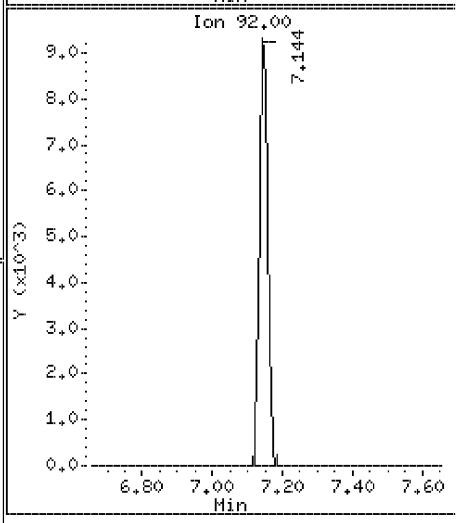
61 Toluene

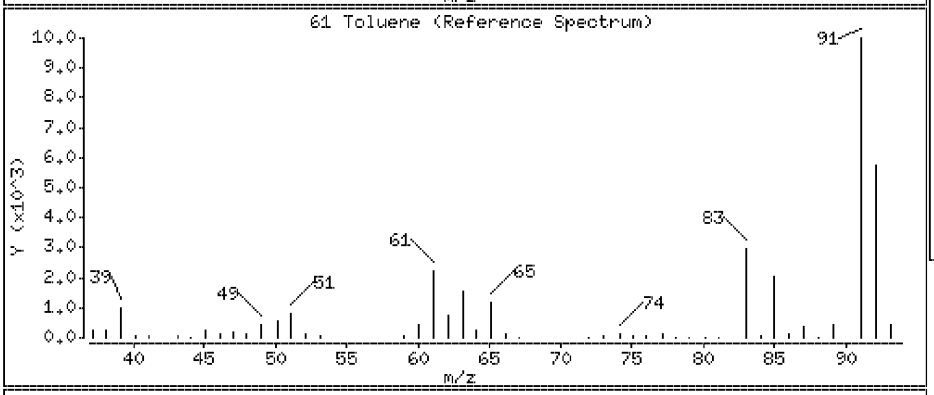
Concentration: 0.860 ppbv

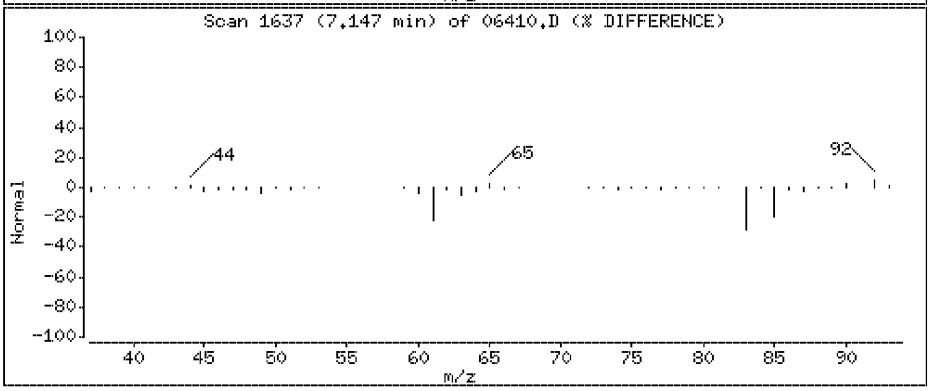












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

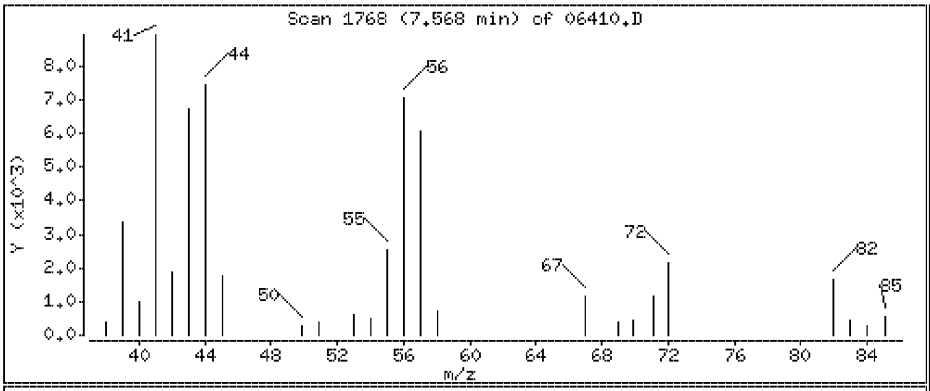
Operator: NCK

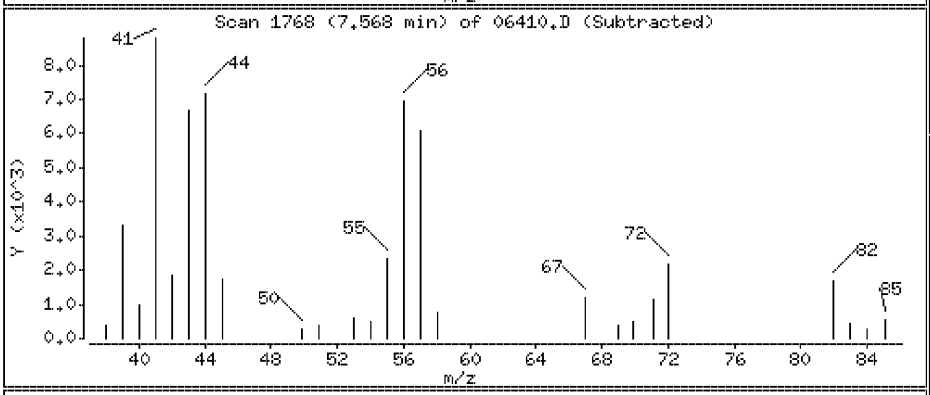
Column phase: J&W DB-5

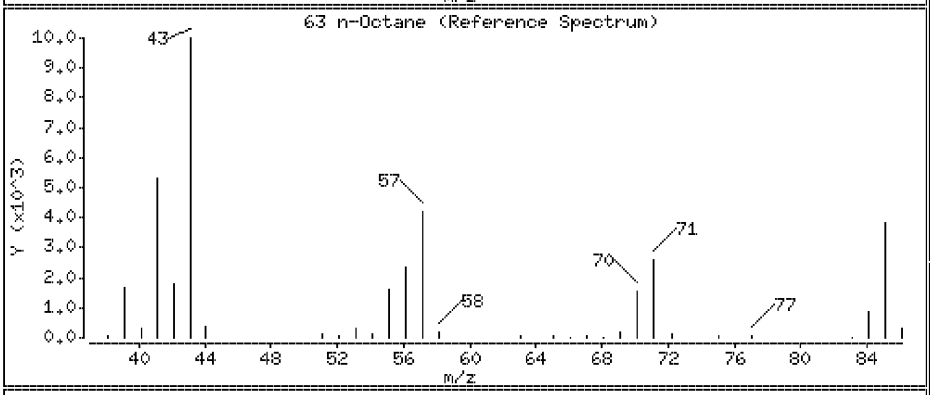
Column diameter: 0.32

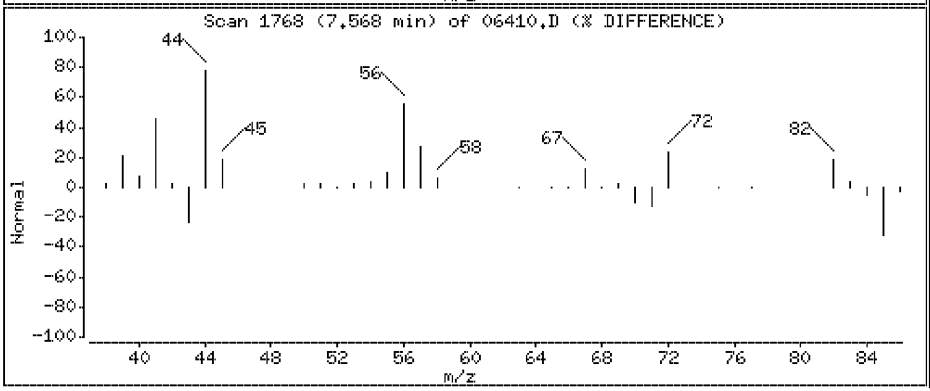
63 n-Octane

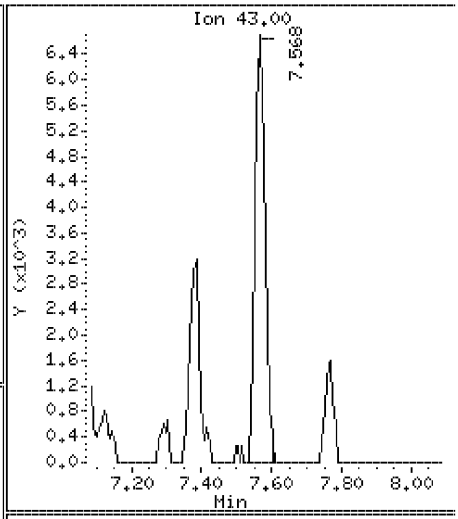
Concentration: 0.856 ppbv

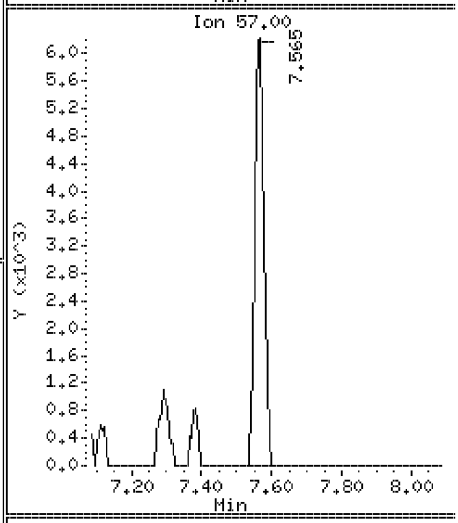


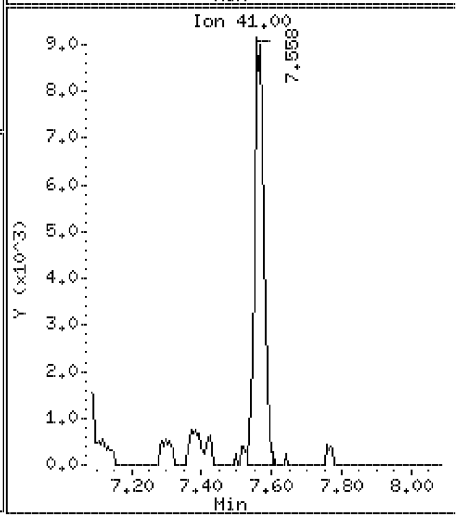












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

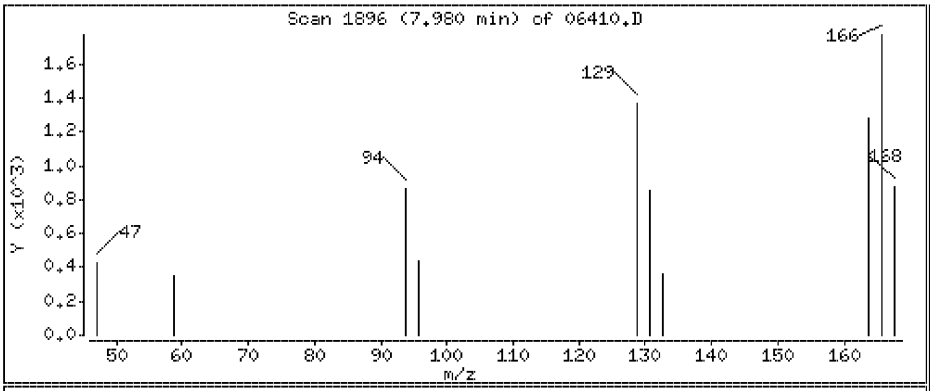
Operator: NCK

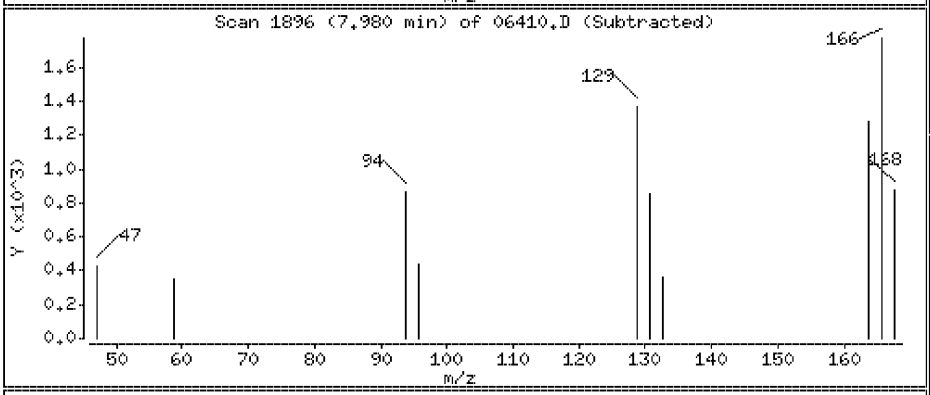
Column phase: J&W DB-5

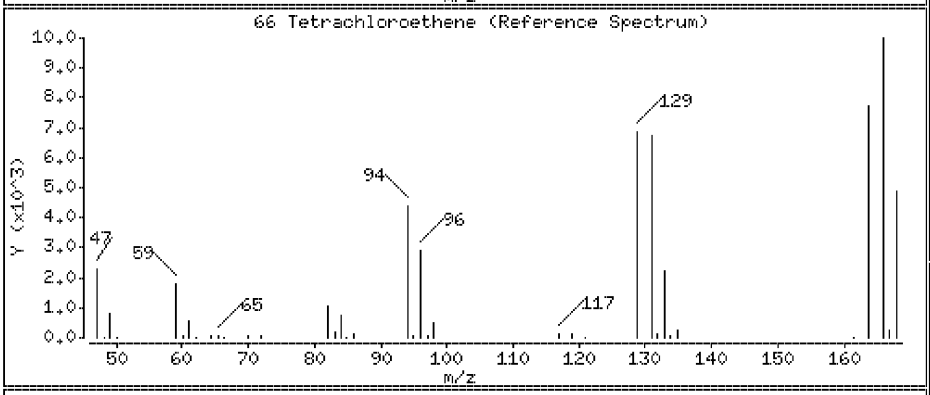
Column diameter: 0.32

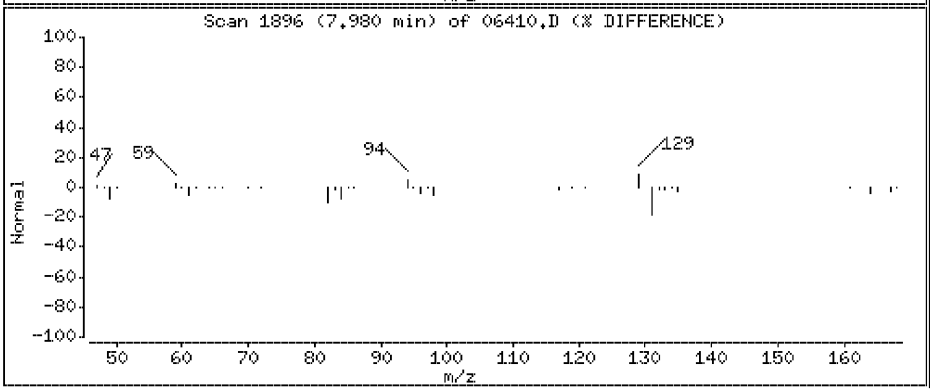
66 Tetrachloroethene

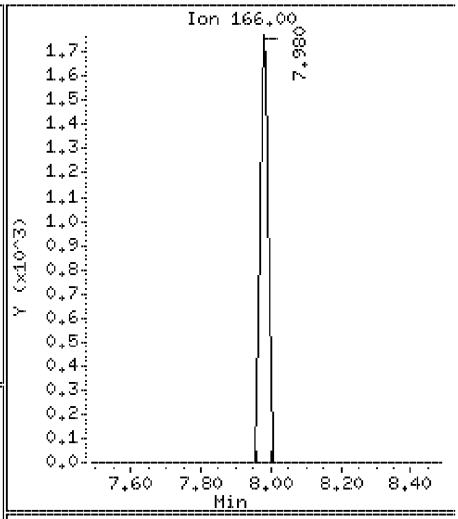
Concentration: 0.169 ppbv

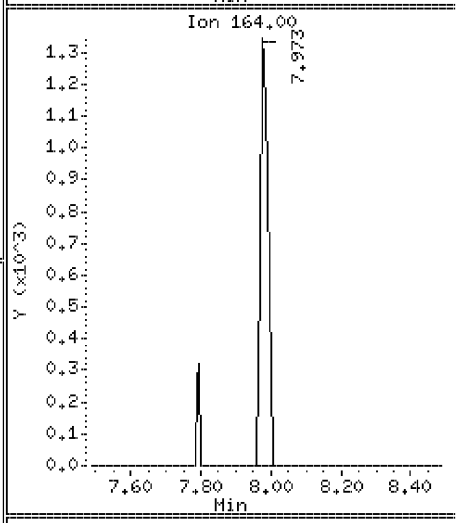


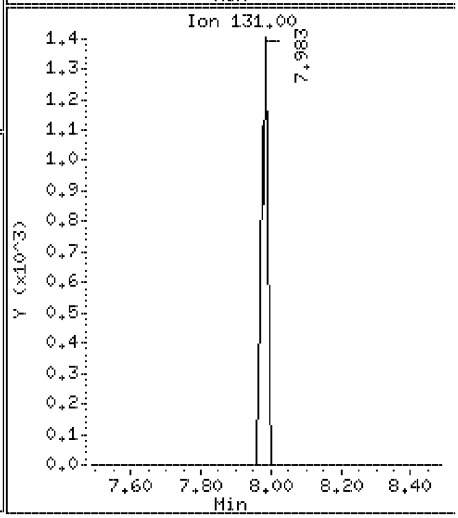












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

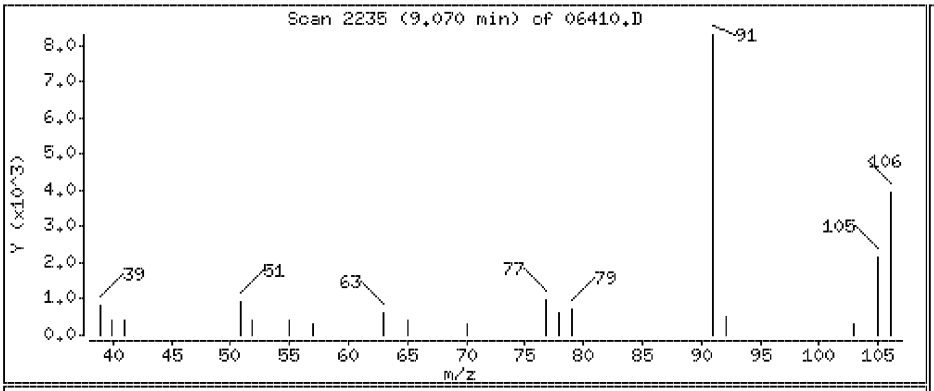
Operator: NCK

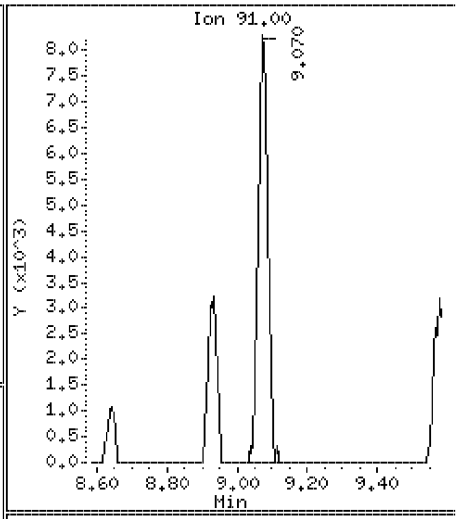
Column phase: J&W DB-5

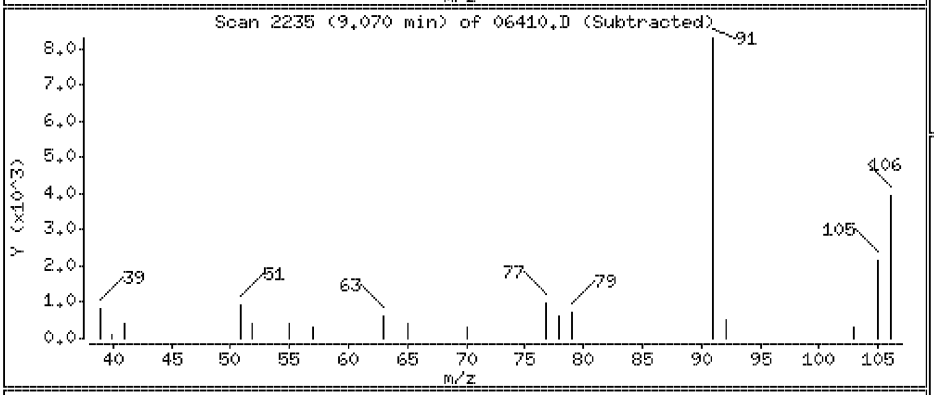
Column diameter: 0.32

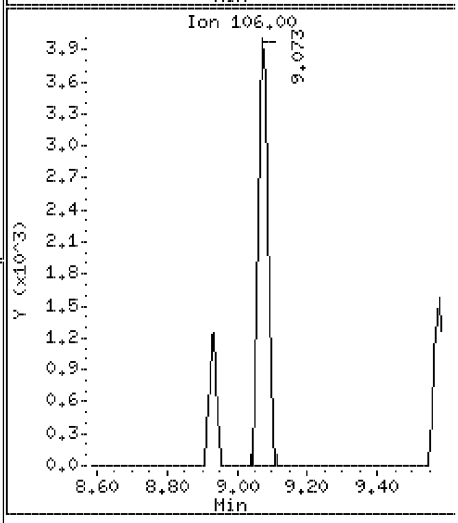
70 m&p-Xylene

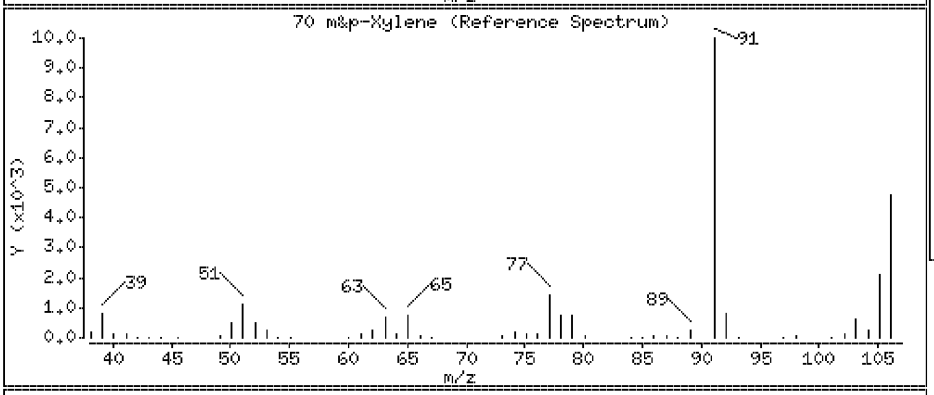
Concentration: 0.605 ppbv

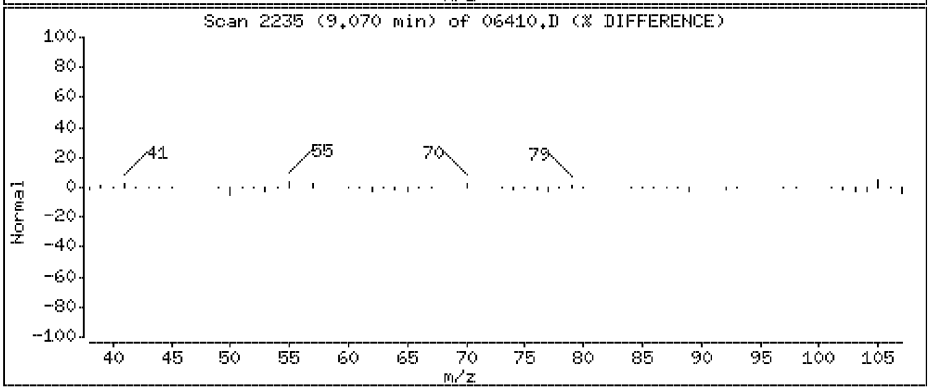












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

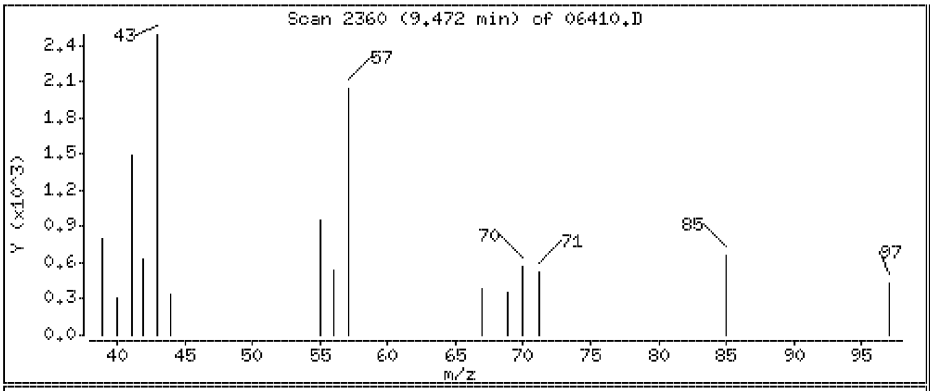
Operator: NCK

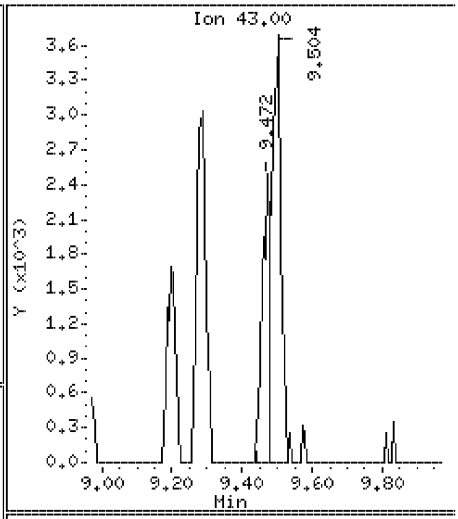
Column phase: J&W DB-5

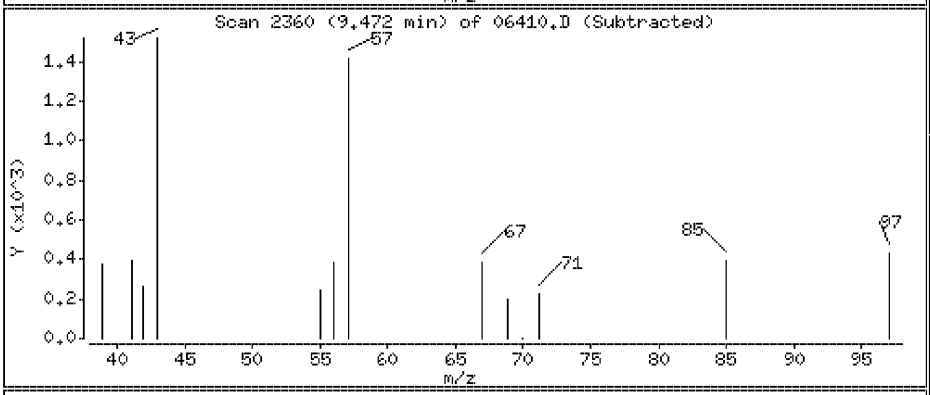
Column diameter: 0.32

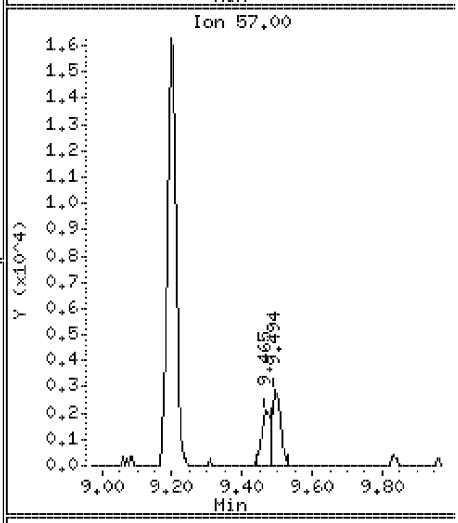
71 n-Nonane

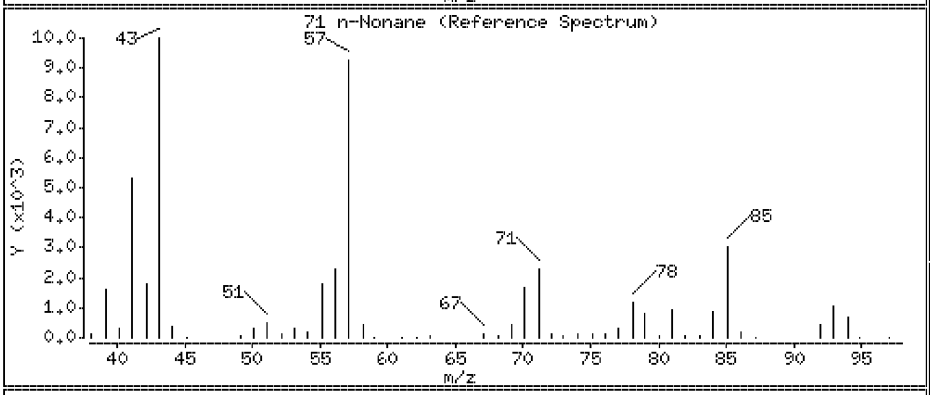
Concentration: 0.256 ppbv

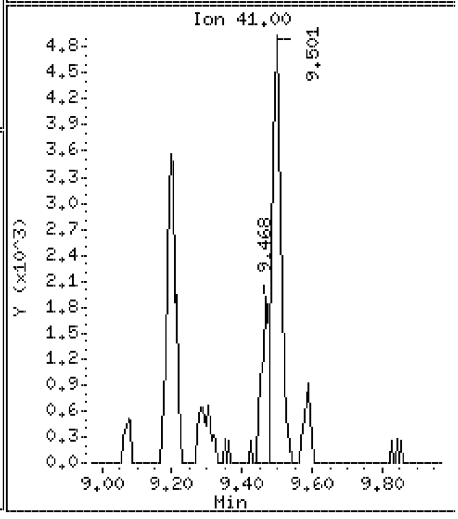


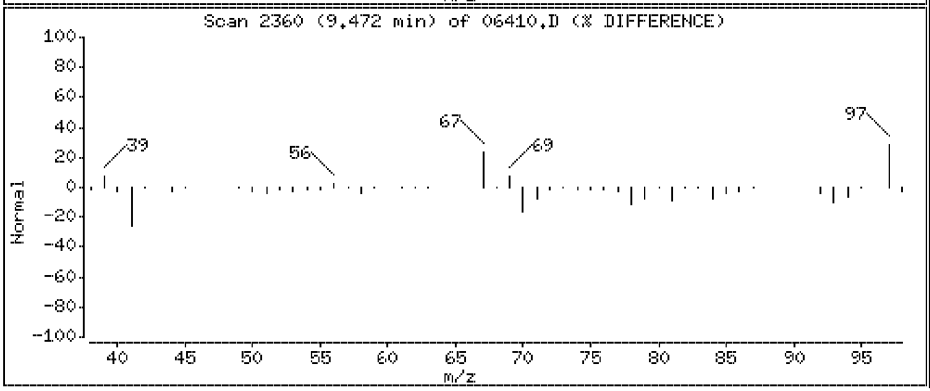












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

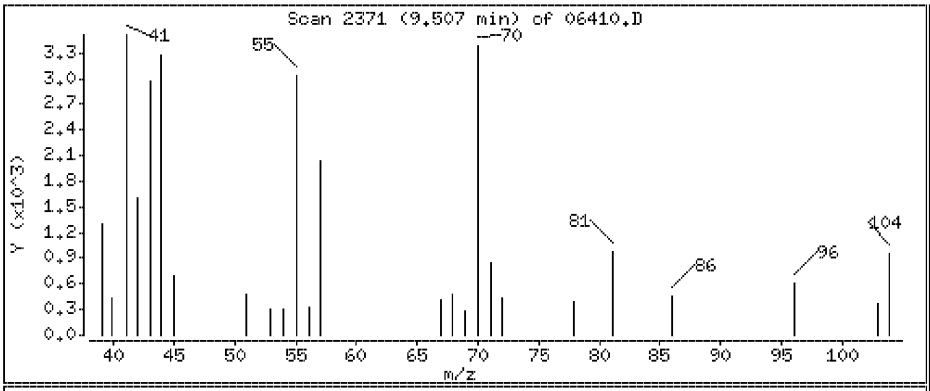
Operator: NCK

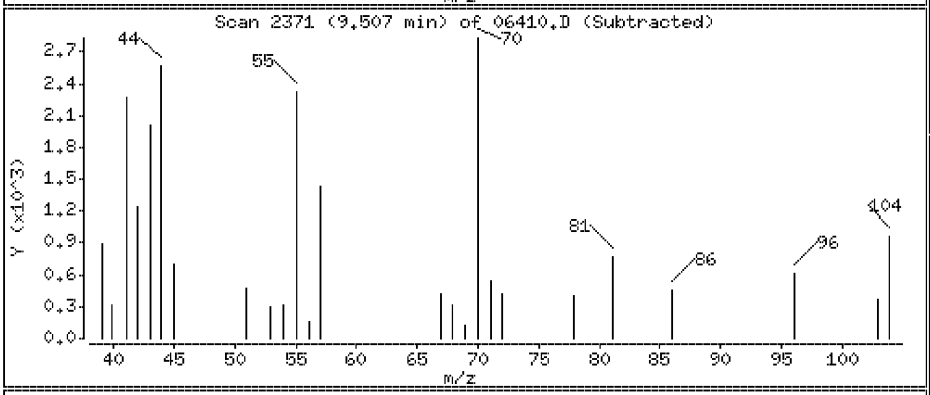
Column phase: J&W DB-5

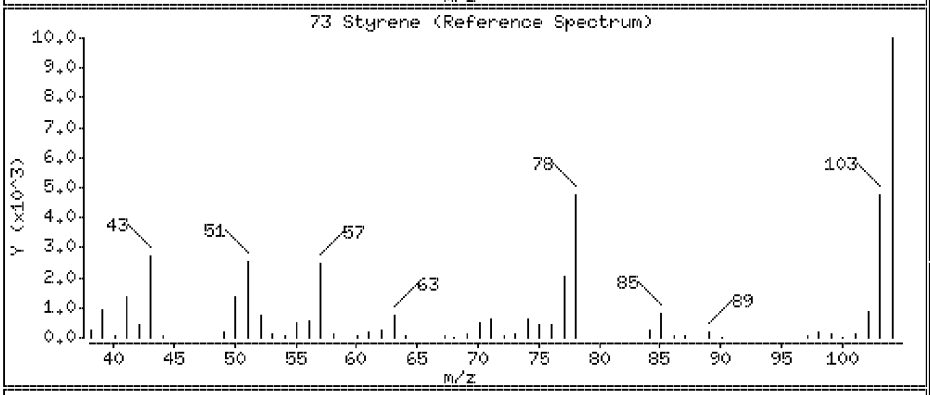
Column diameter: 0.32

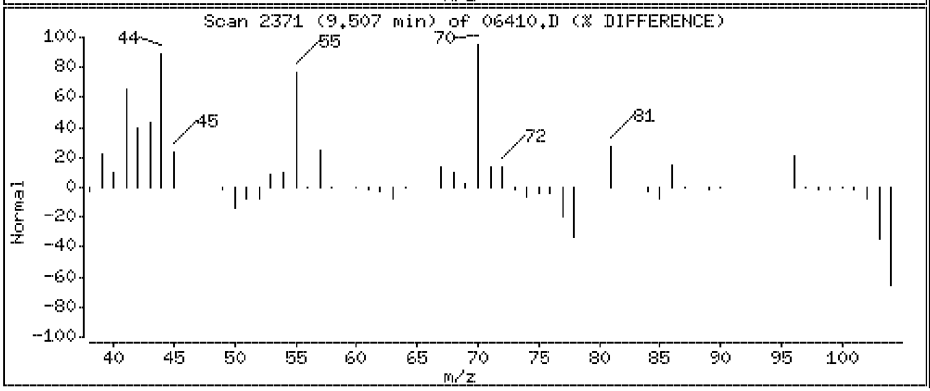
73 Styrene

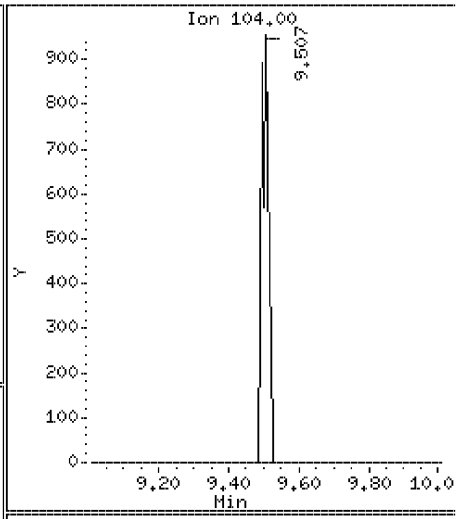
Concentration: 0.215 ppbv

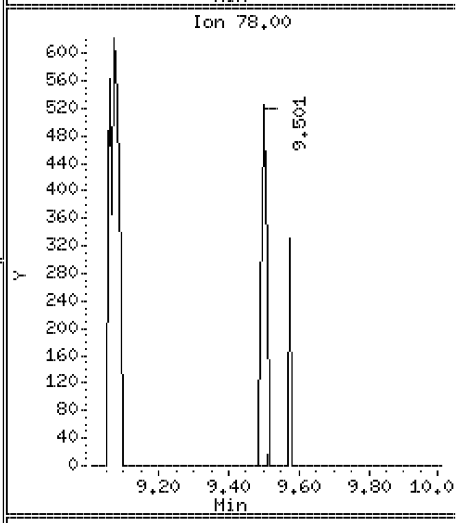


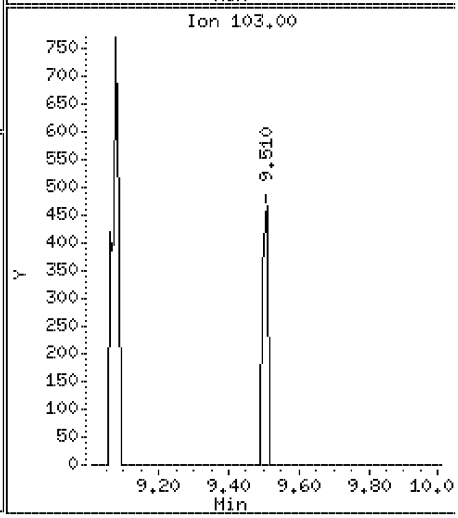












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

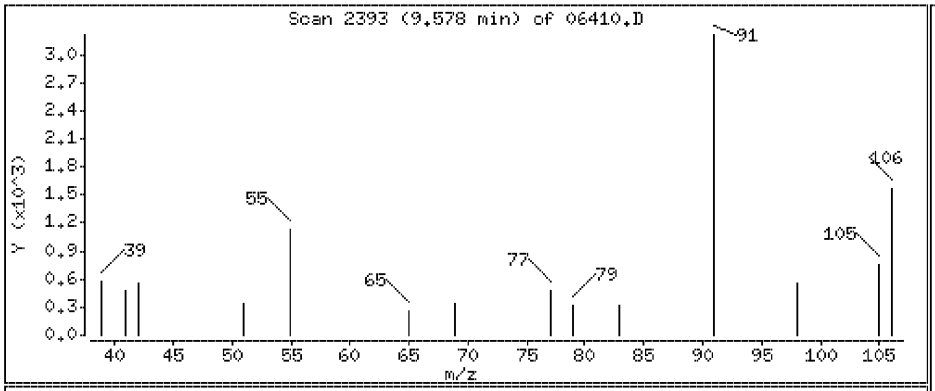
Operator: NCK

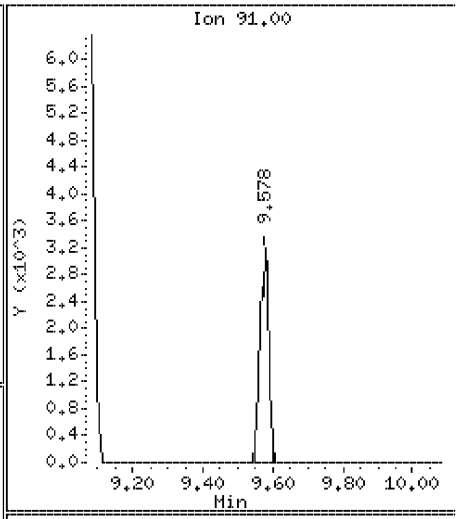
Column phase: J&W DB-5

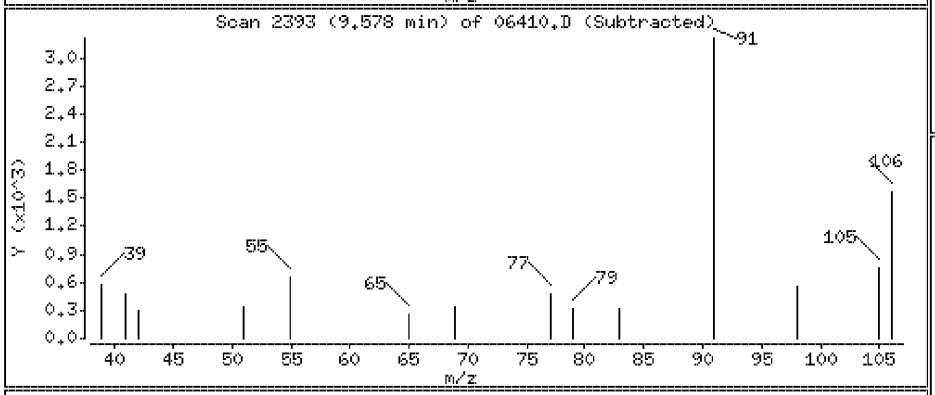
Column diameter: 0.32

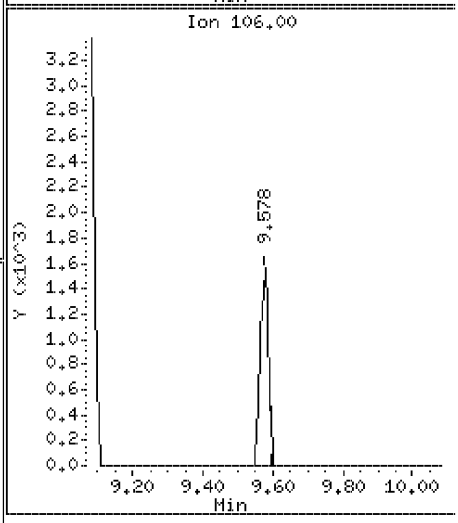
74 o-Xylene

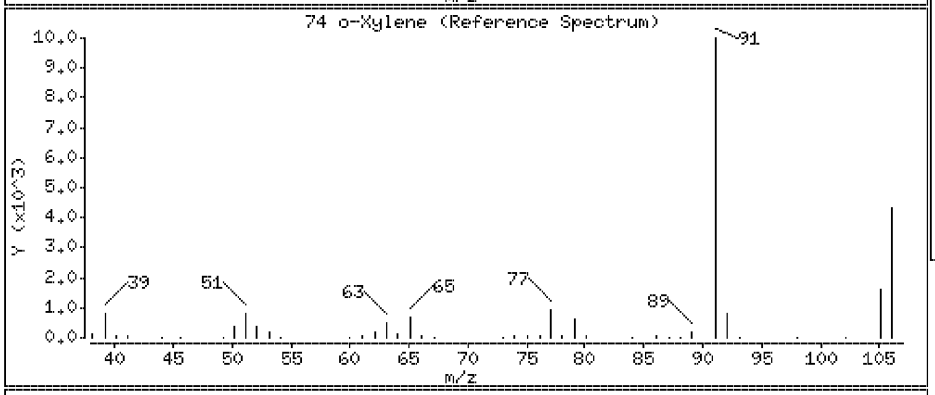
Concentration: 0.203 ppbv

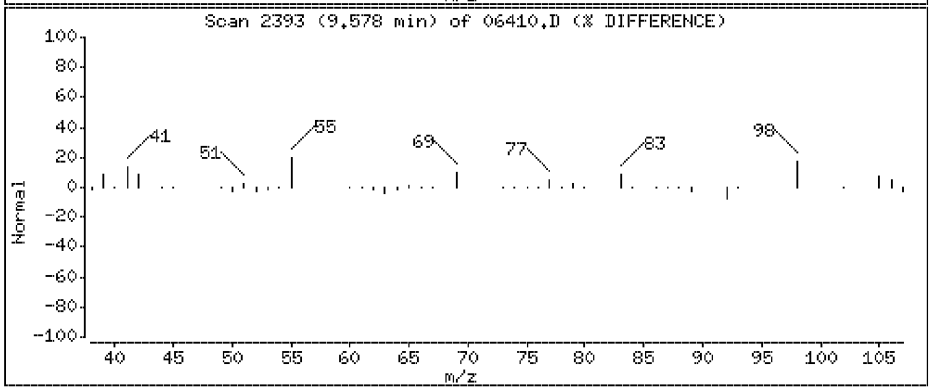












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

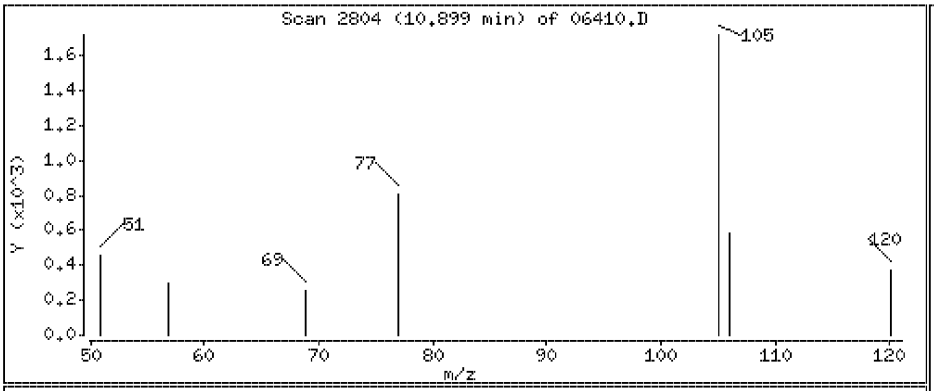
Operator: NCK

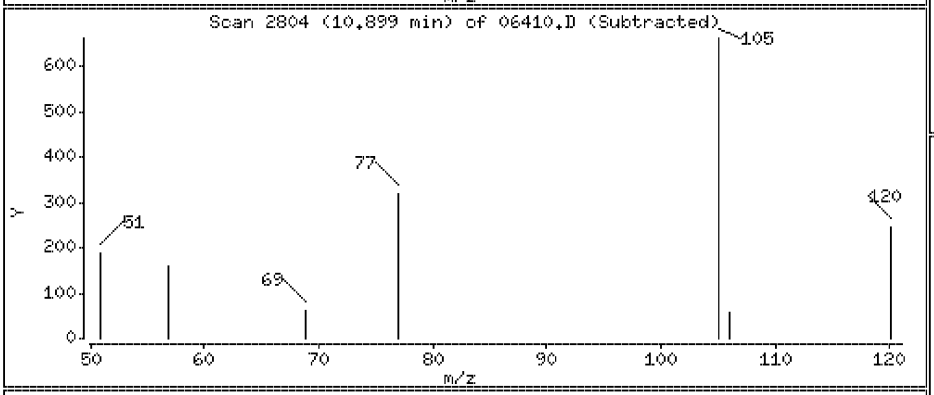
Column phase: J&W DB-5

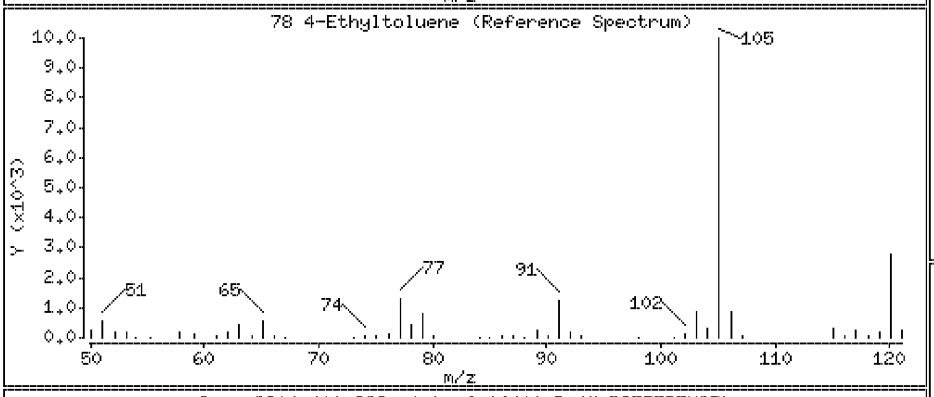
Column diameter: 0.32

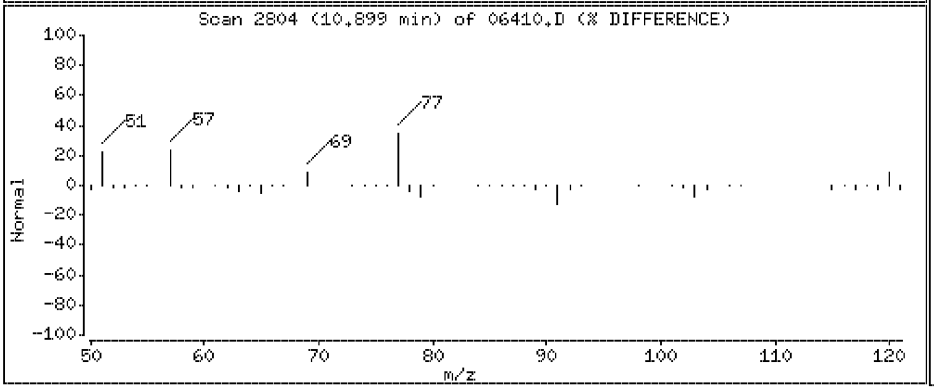
78 4-Ethyltoluene

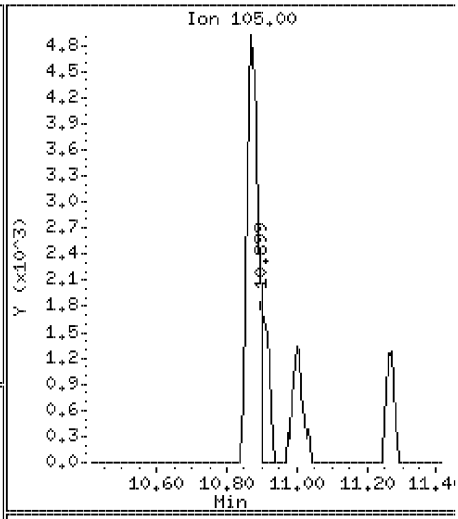
Concentration: 0.267 ppbv

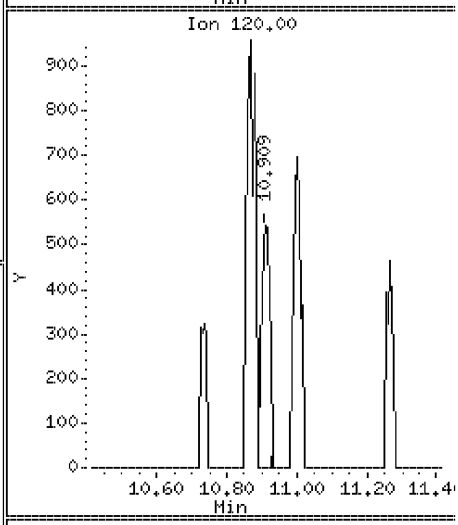


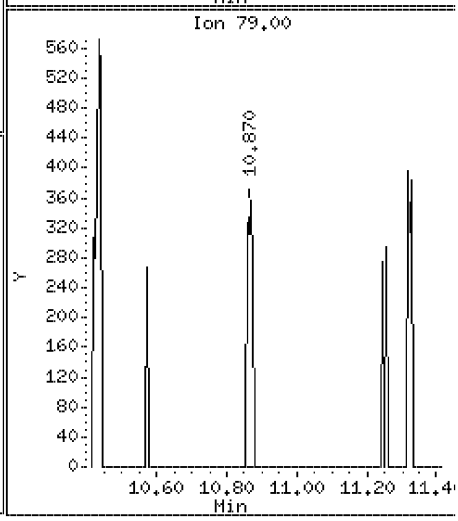












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

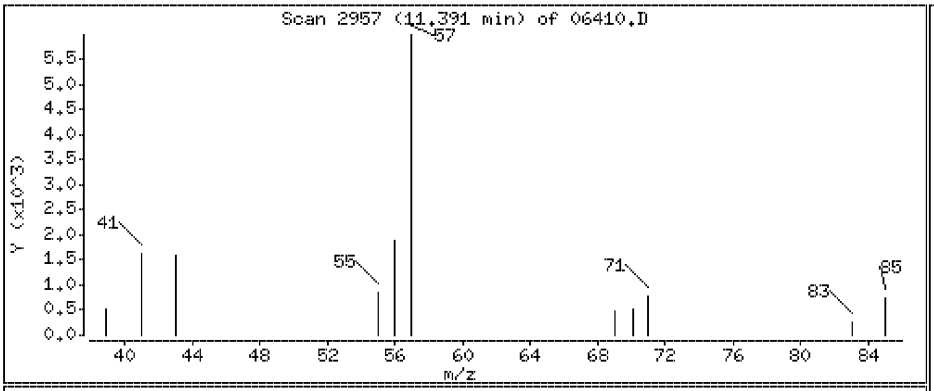
Operator: NCK

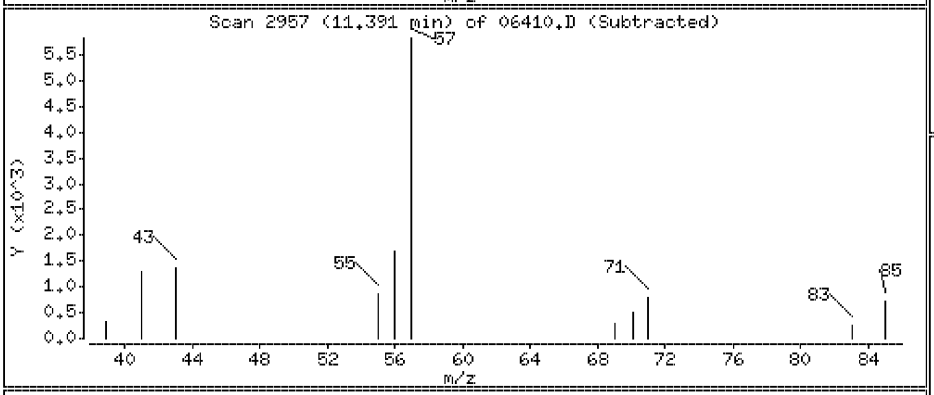
Column phase: J&W DB-5

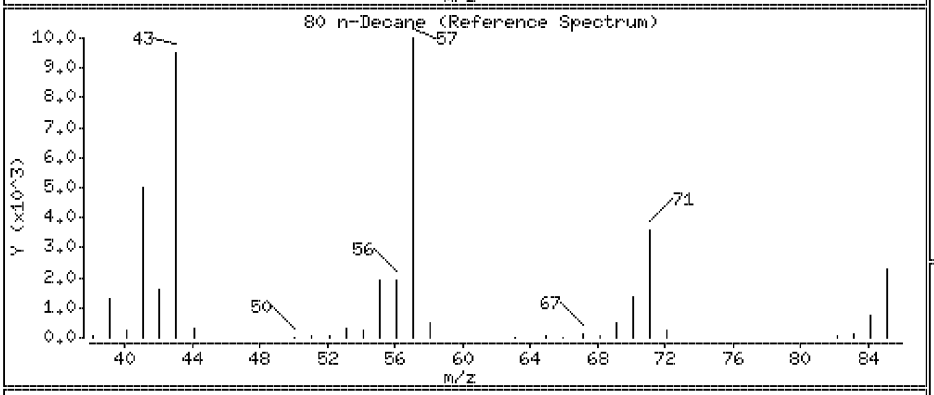
Column diameter: 0.32

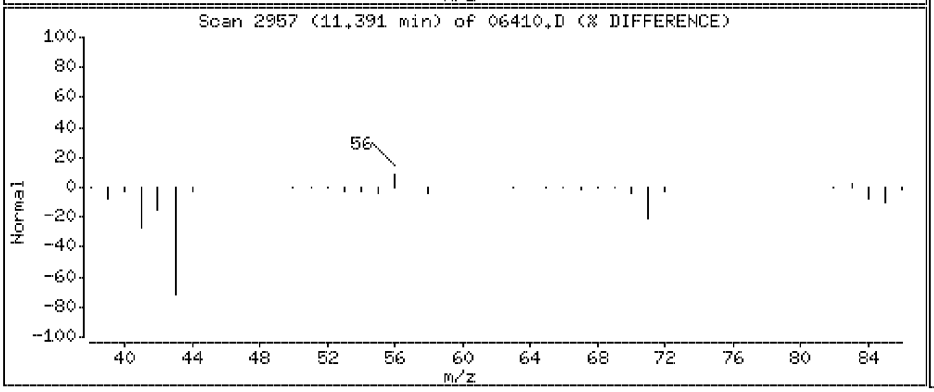
80 n-Decane

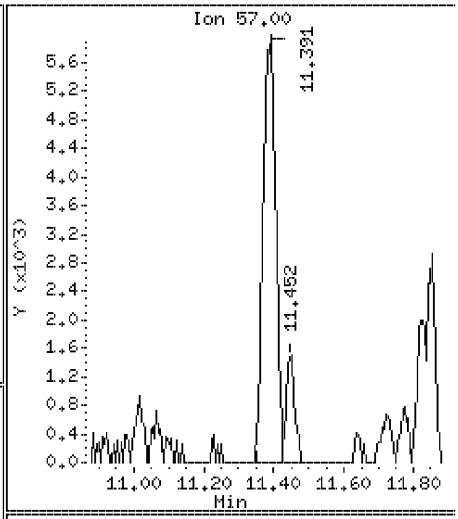
Concentration: 1.28 ppbv

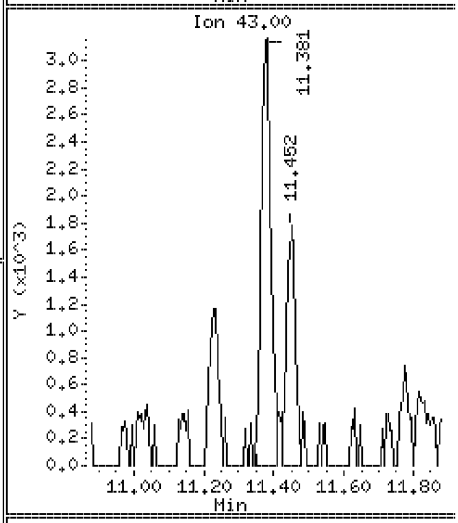


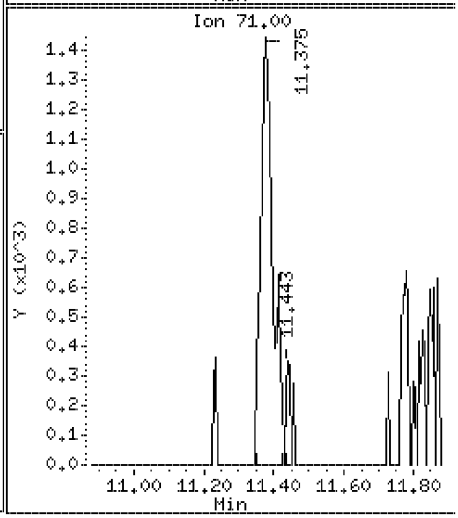












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

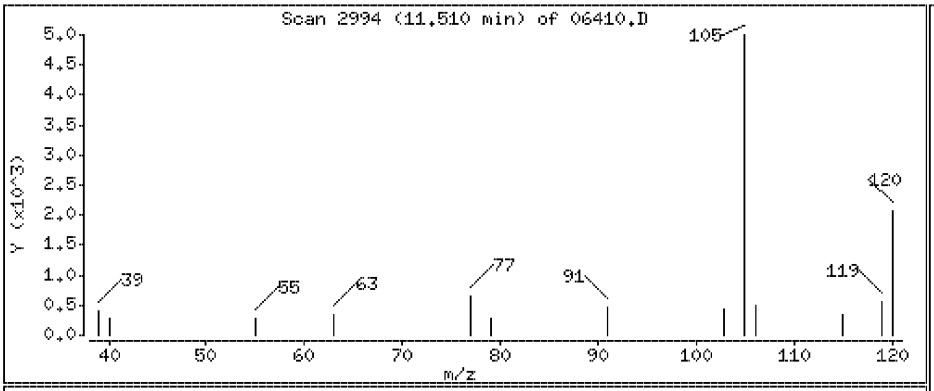
Operator: NCK

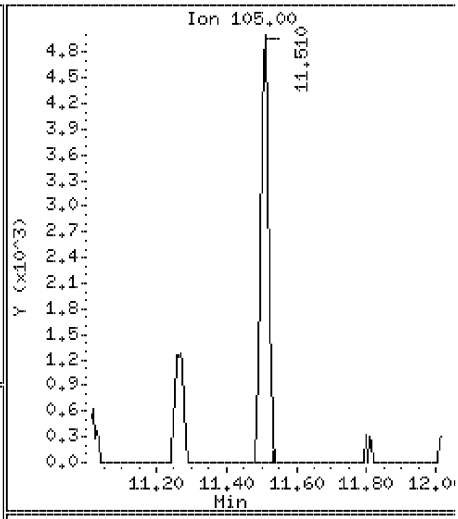
Column phase: J&W DB-5

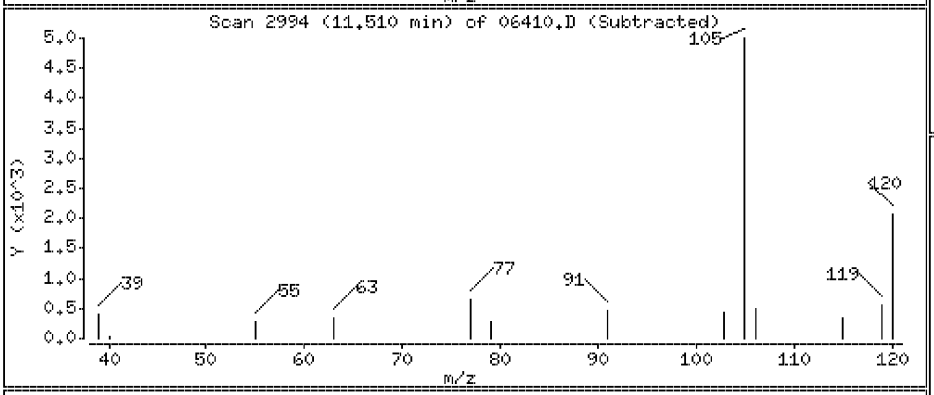
Column diameter: 0.32

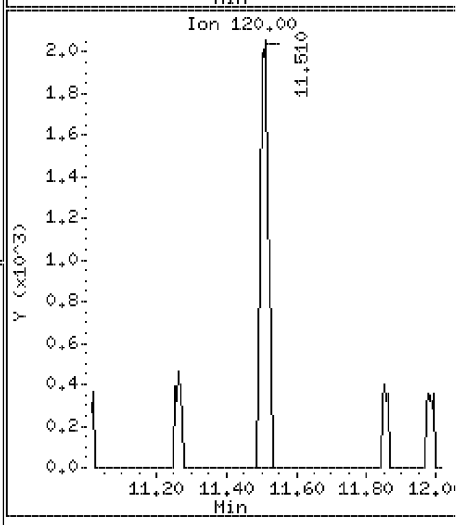
82 1,2,4-Trimethylbenzene

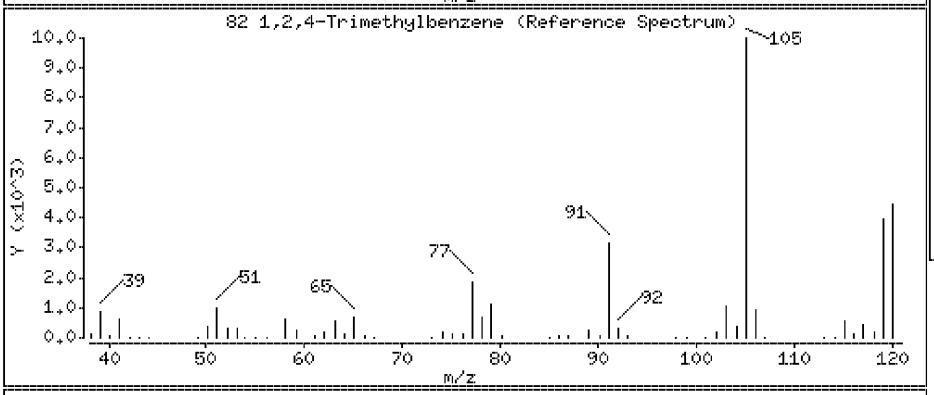
Concentration: 0.278 ppbv

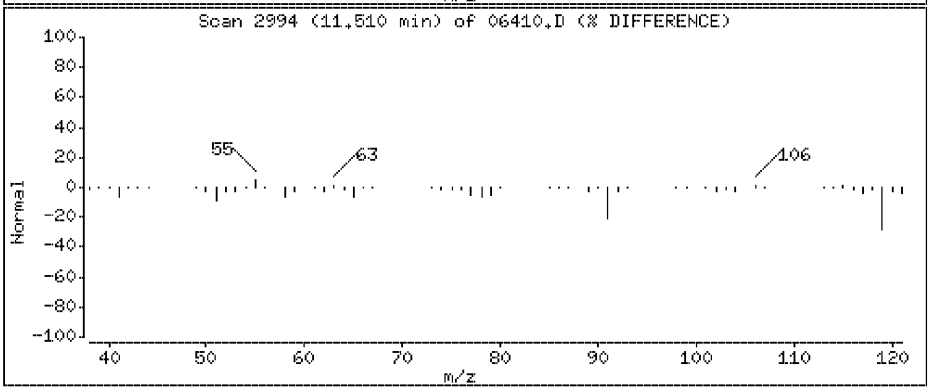












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06410.D

Date : 05-MAR-2017 13:42

Client ID:

Instrument: 10airB.i

Sample Info:

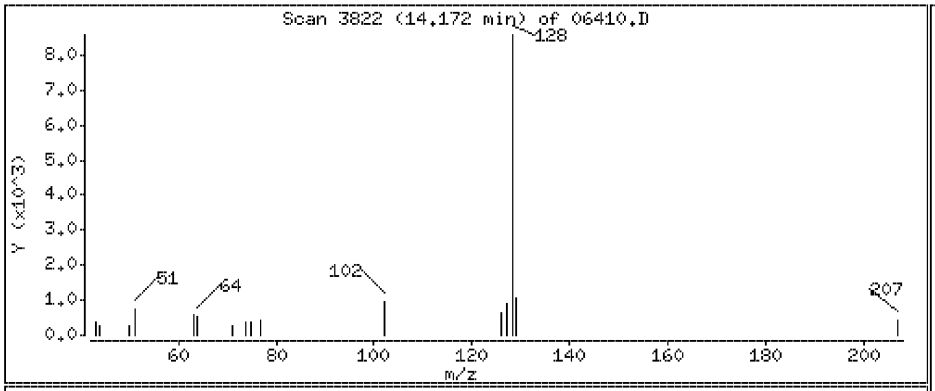
Operator: NCK

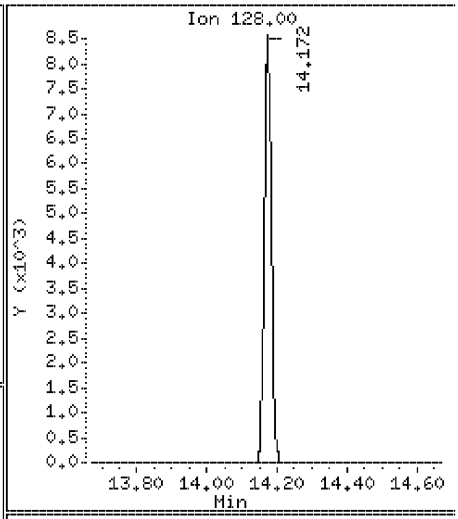
Column phase: J&W DB-5

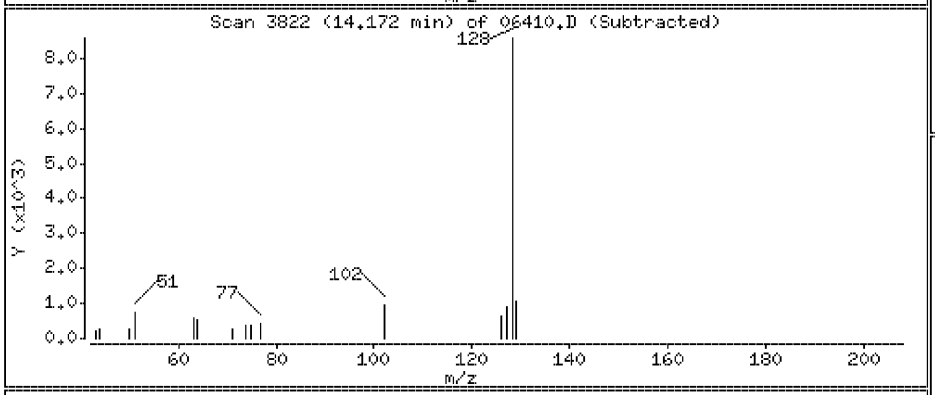
Column diameter: 0.32

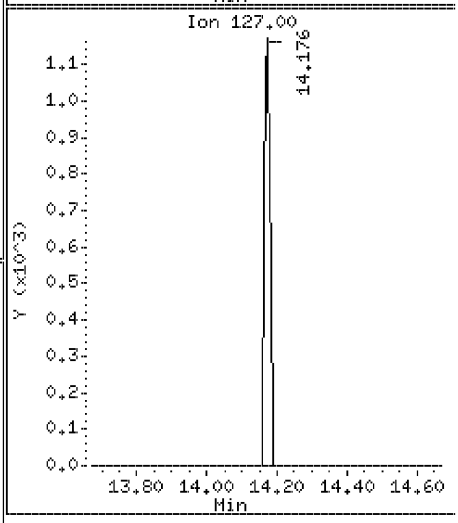
94 Naphthalene

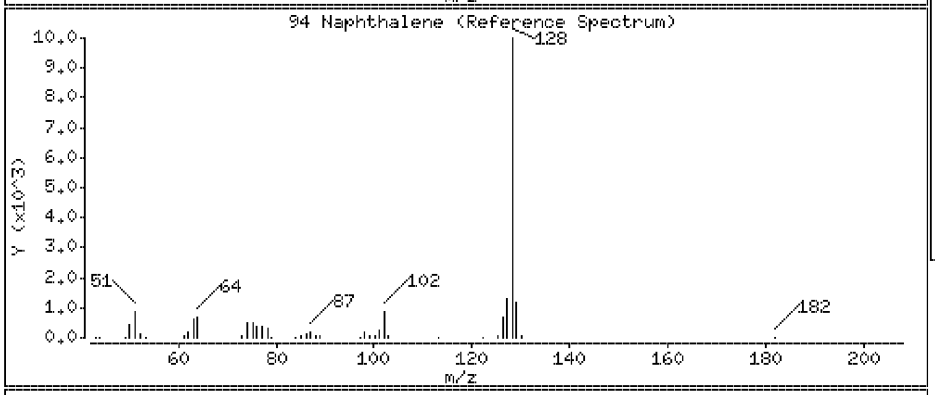
Concentration: 1.31 ppbv

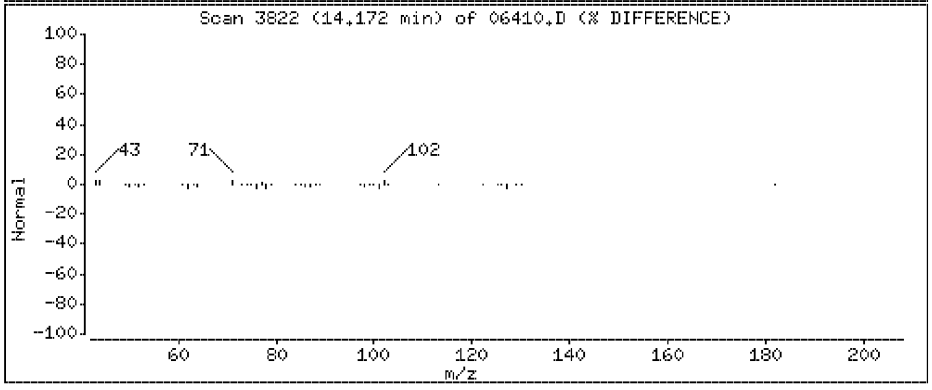






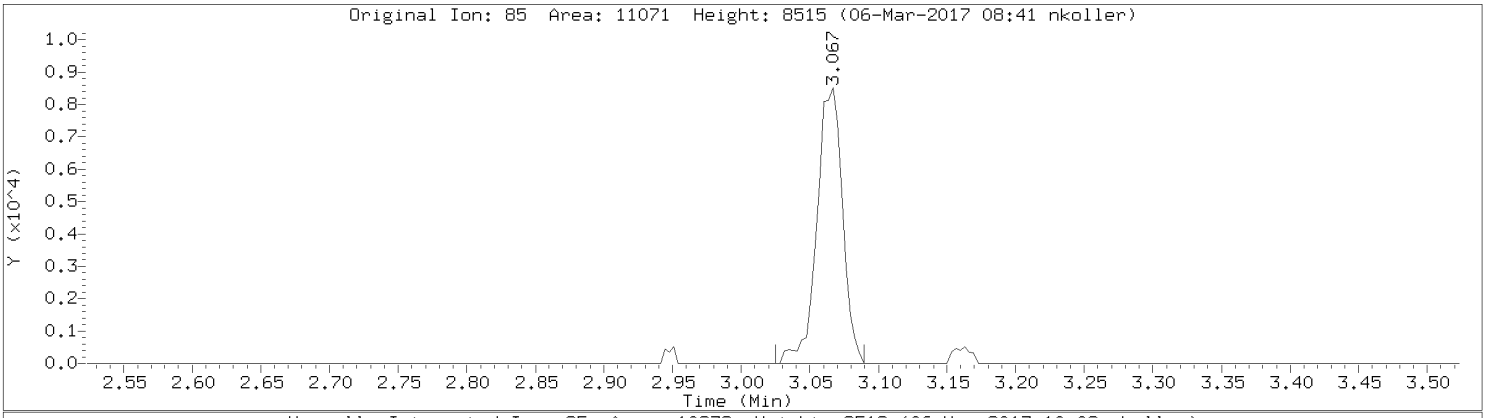


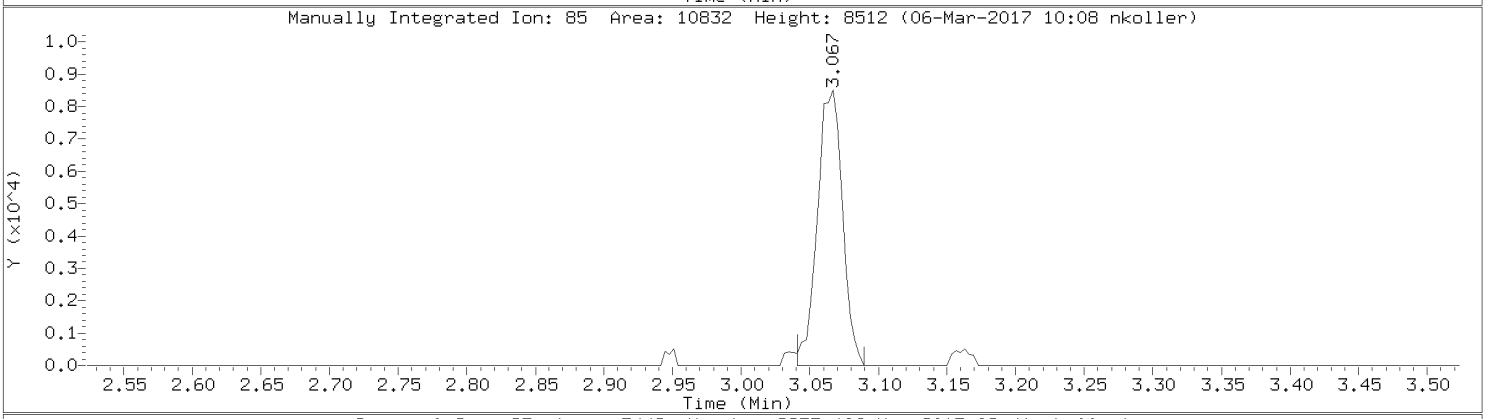


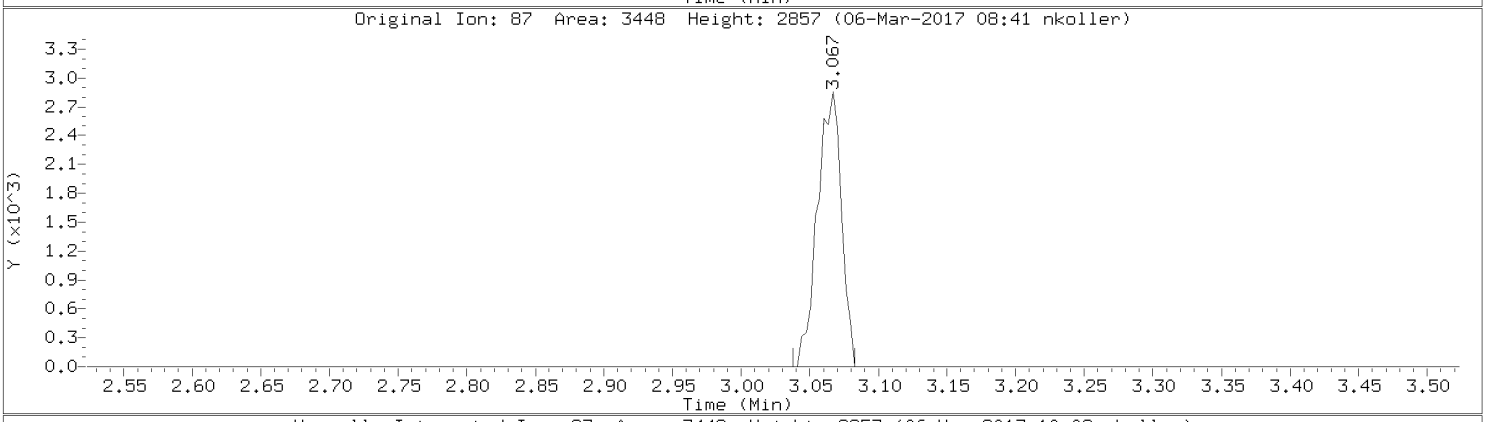


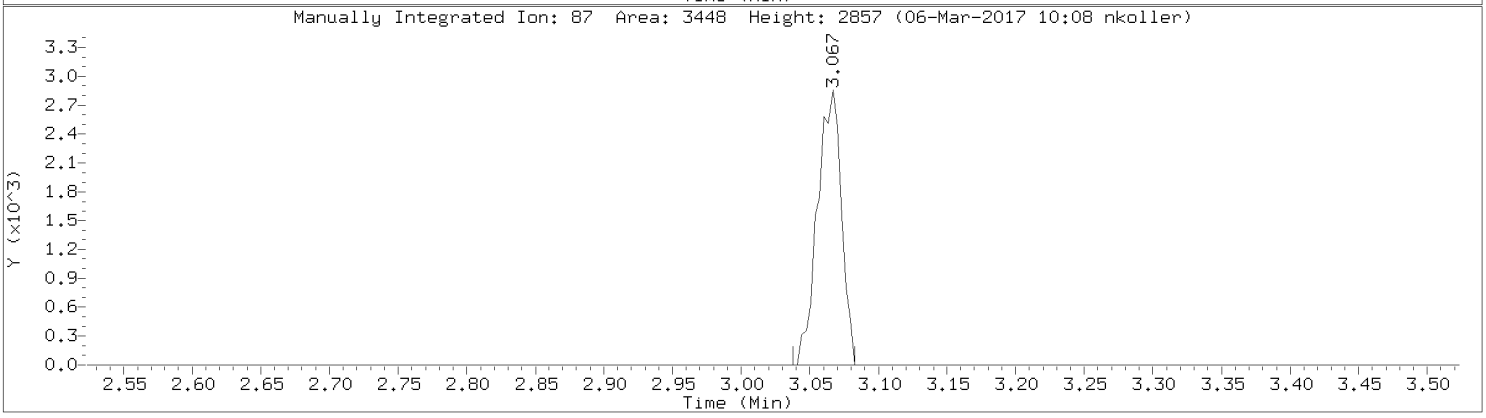
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06410.D
Injection Date: 05-MAR-2017 13:42
Instrument: 10airB.i
Lab Sample ID: 10379458010

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



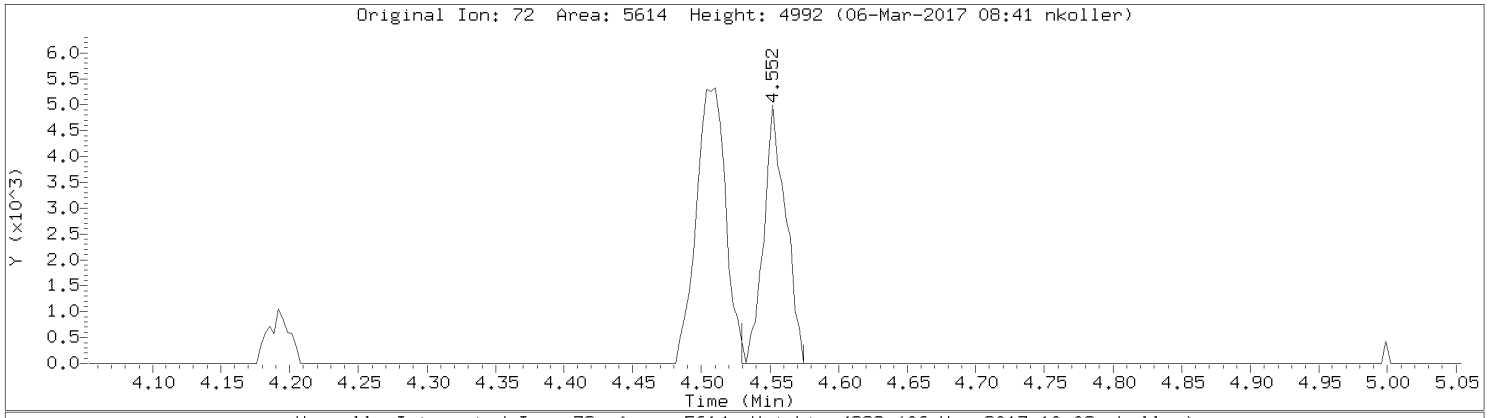


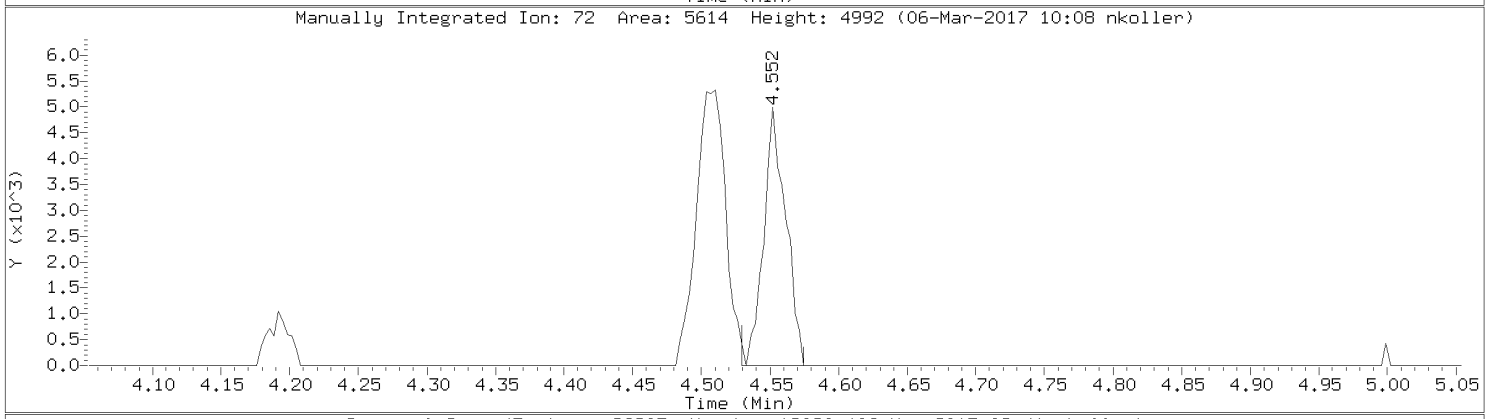


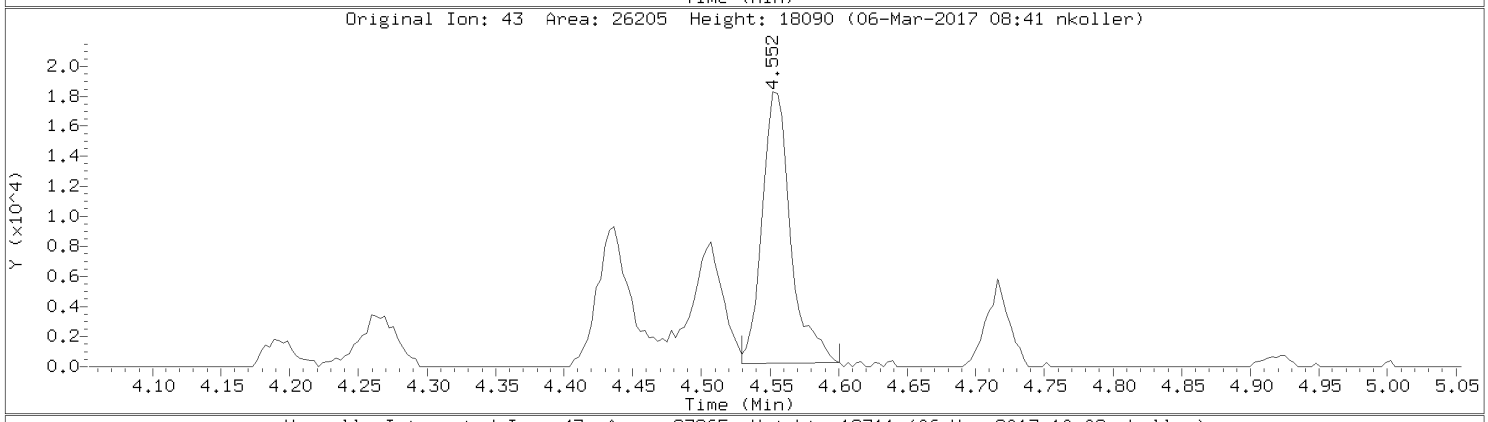


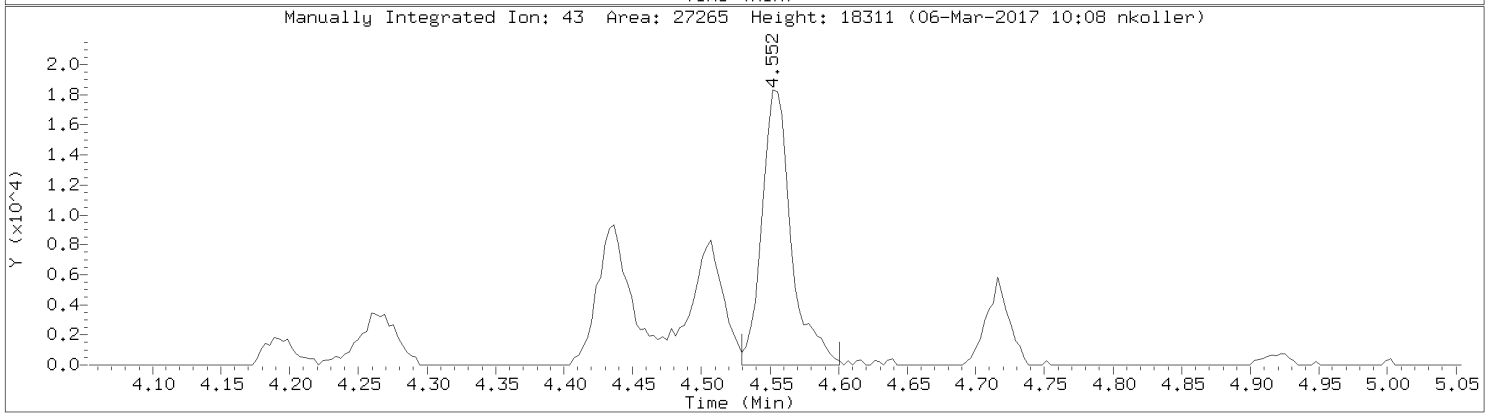
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06410.D
Injection Date: 05-MAR-2017 13:42
Instrument: 10airB.i
Lab Sample ID: 10379458010

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



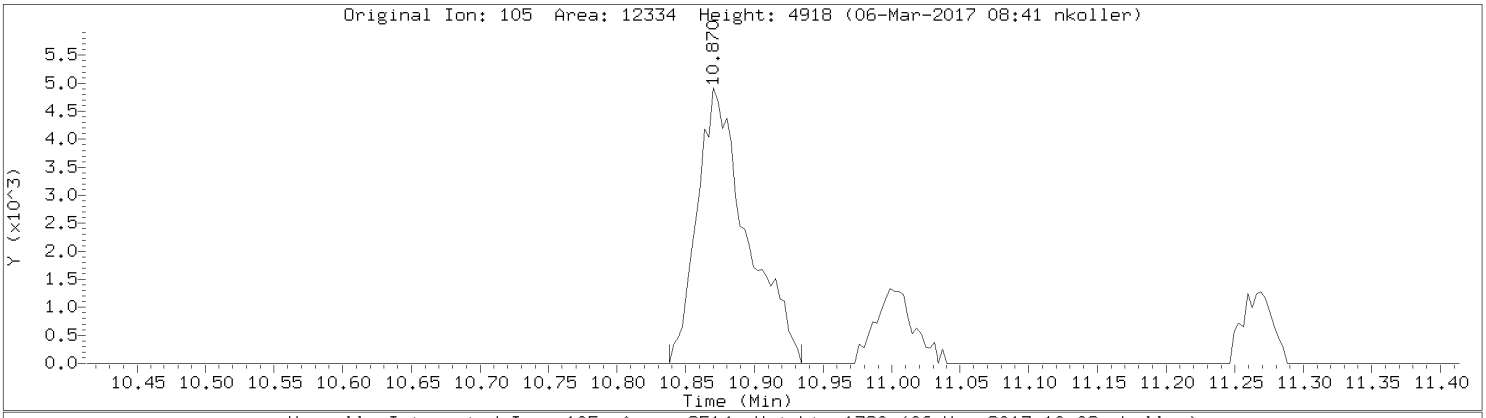


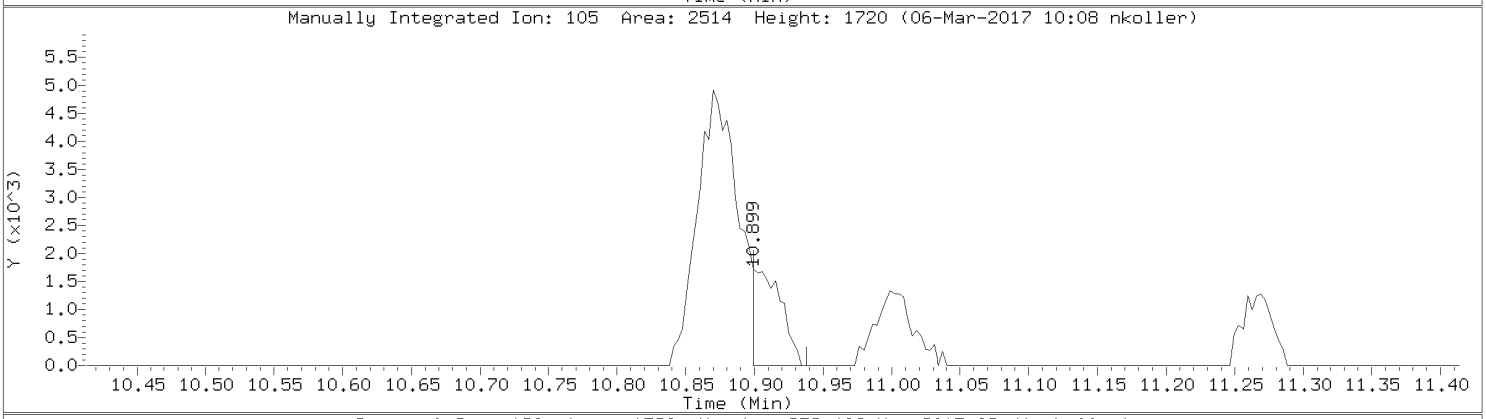


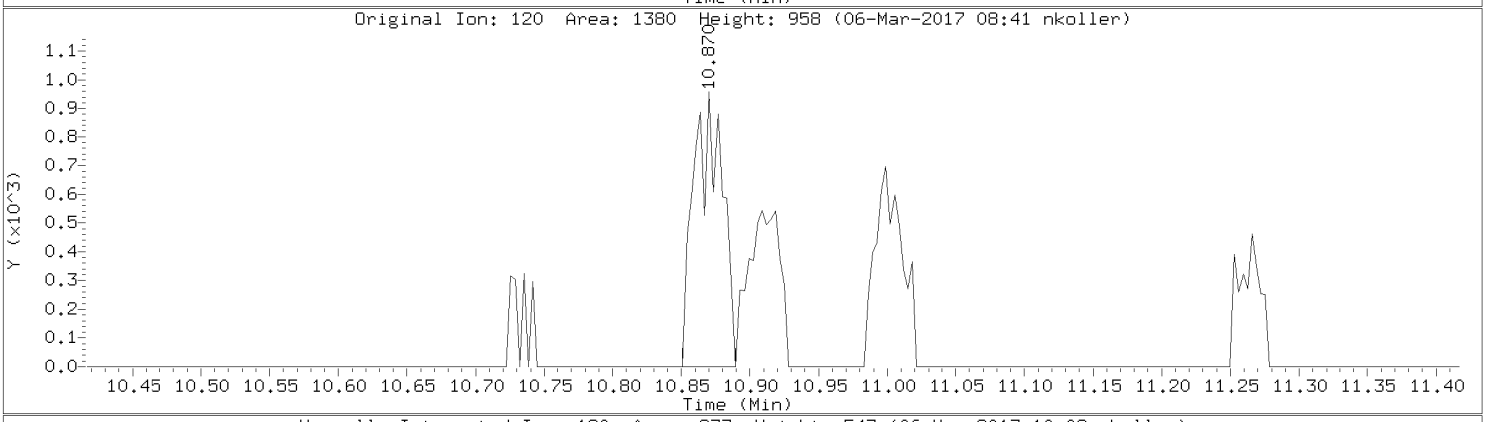


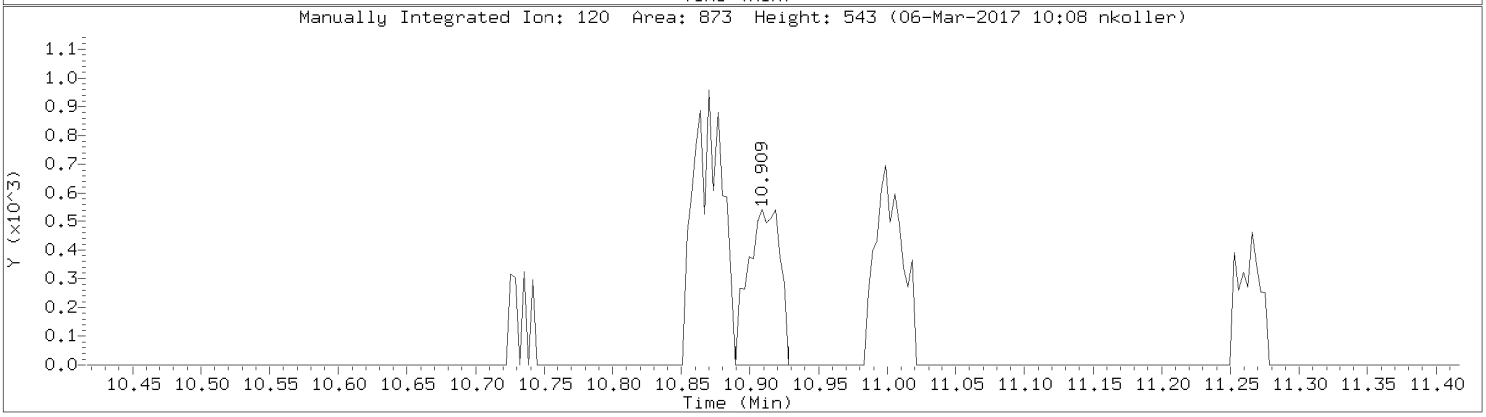
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06410.D
Injection Date: 05-MAR-2017 13:42
Instrument: 10airB.i
Lab Sample ID: 10379458010

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

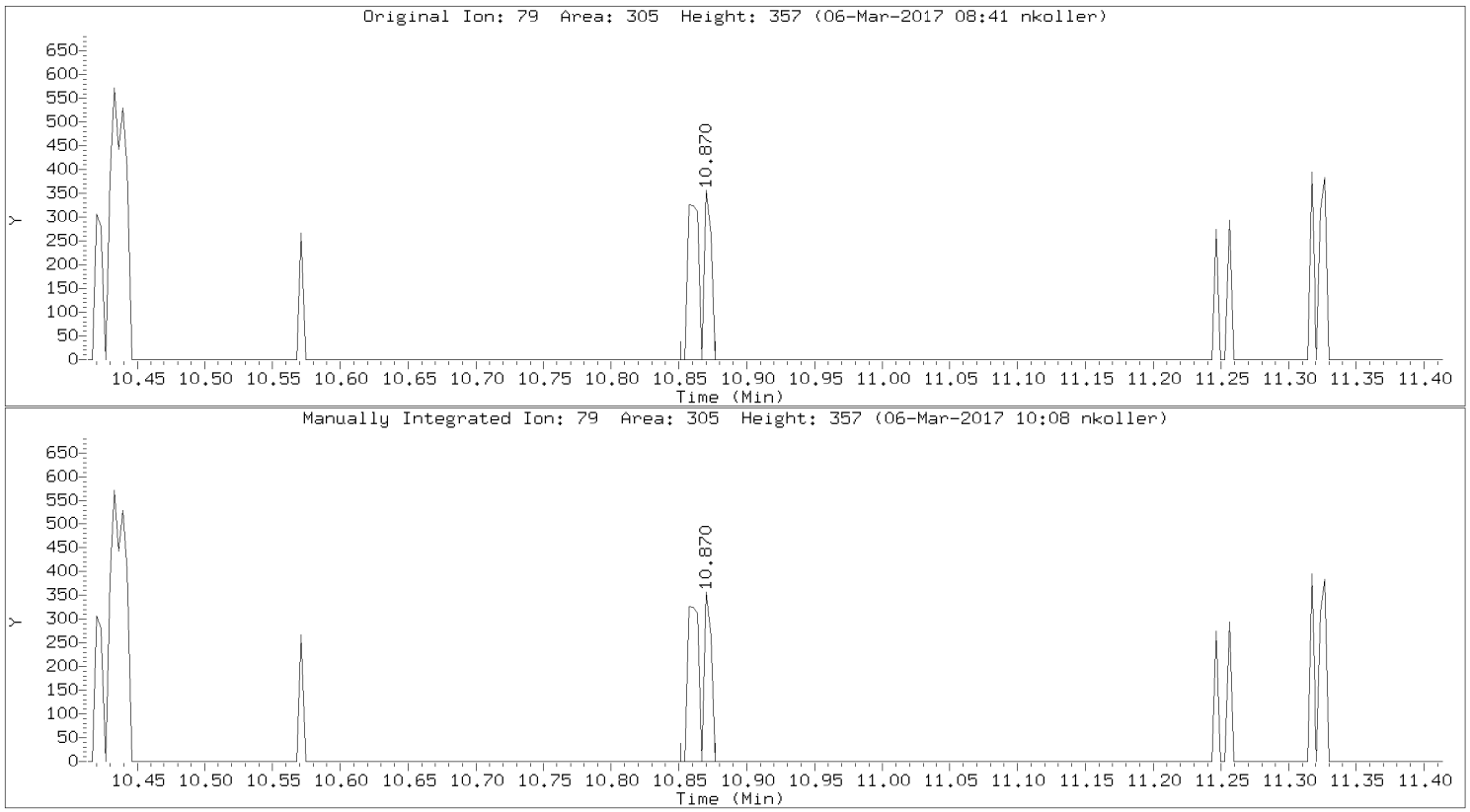








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06410.D
Injection Date: 05-MAR-2017 13:42
Instrument: 10airB.i
Lab Sample ID: 10379458010



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-D13_20170215 **Lab ID: 10379458011** Collected: 02/15/17 17:06 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**48.5**	ug/m3	5.1	1.8	2.12		03/05/17 14:14	67-64-1	
Allyl chloride	**<0.48**	ug/m3	3.4	0.48	2.12		03/05/17 14:14	107-05-1	
Benzene	**6.8**	ug/m3	0.69	0.26	2.12		03/05/17 14:14	71-43-2	
Bromodichloromethane	**<0.41**	ug/m3	2.9	0.41	2.12		03/05/17 14:14	75-27-4	
Bromoform	**<1.9**	ug/m3	4.5	1.9	2.12		03/05/17 14:14	75-25-2	
Bromomethane	**<0.66**	ug/m3	1.7	0.66	2.12		03/05/17 14:14	74-83-9	
1,3-Butadiene	**<0.37**	ug/m3	0.95	0.37	2.12		03/05/17 14:14	106-99-0	
2-Butanone (MEK)	**<0.48**	ug/m3	6.4	0.48	2.12		03/05/17 14:14	78-93-3	
Carbon disulfide	**<0.21**	ug/m3	1.3	0.21	2.12		03/05/17 14:14	75-15-0	
Carbon tetrachloride	**<0.41**	ug/m3	1.4	0.41	2.12		03/05/17 14:14	56-23-5	
Chlorobenzene	**<0.28**	ug/m3	2.0	0.28	2.12		03/05/17 14:14	108-90-7	
Chlorodifluoromethane	**<0.59**	ug/m3	1.5	0.59	2.12		03/05/17 14:14	75-45-6	
Chloroethane	**<0.41**	ug/m3	1.1	0.41	2.12		03/05/17 14:14	75-00-3	
Chloroform	**8.1**	ug/m3	1.1	0.40	2.12		03/05/17 14:14	67-66-3	
Chloromethane	**<0.23**	ug/m3	0.89	0.23	2.12		03/05/17 14:14	74-87-3	
Chloropentafluoroethane	**<6.8**	ug/m3	6.8	6.8	2.12		03/05/17 14:14	76-15-3	CL
Cyclohexane	**0.82J**	ug/m3	1.5	0.67	2.12		03/05/17 14:14	110-82-7	
1,2-Dibromo-3-chloropropane	**<10.4**	ug/m3	10.4	10.4	2.12		03/05/17 14:14	96-12-8	
Dibromochloromethane	**<1.8**	ug/m3	3.7	1.8	2.12		03/05/17 14:14	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.3	1.6	2.12		03/05/17 14:14	106-93-4	
1,2-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/05/17 14:14	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/05/17 14:14	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/05/17 14:14	106-46-7	
Dichlorodifluoromethane	**2.1J**	ug/m3	2.1	1.0	2.12		03/05/17 14:14	75-71-8	
1,1-Dichloroethane	**<0.33**	ug/m3	1.7	0.33	2.12		03/05/17 14:14	75-34-3	
1,2-Dichloroethane	**<0.43**	ug/m3	0.87	0.43	2.12		03/05/17 14:14	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/m3	1.7	0.50	2.12		03/05/17 14:14	75-35-4	
cis-1,2-Dichloroethene	**<0.52**	ug/m3	1.7	0.52	2.12		03/05/17 14:14	156-59-2	
trans-1,2-Dichloroethene	**3.1**	ug/m3	1.7	0.81	2.12		03/05/17 14:14	156-60-5	
1,2-Dichloropropane	**<0.57**	ug/m3	2.0	0.57	2.12		03/05/17 14:14	78-87-5	
cis-1,3-Dichloropropene	**<0.78**	ug/m3	2.0	0.78	2.12		03/05/17 14:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.55**	ug/m3	2.0	0.55	2.12		03/05/17 14:14	10061-02-6	
Dichlorotetrafluoroethane	**<0.66**	ug/m3	3.0	0.66	2.12		03/05/17 14:14	76-14-2	
Freon 123	**<6.7**	ug/m3	6.7	6.7	2.12		03/05/17 14:14	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.75**	ug/m3	7.8	0.75	2.12		03/05/17 14:14	123-91-1	
Ethylbenzene	**<0.90**	ug/m3	1.9	0.90	2.12		03/05/17 14:14	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	2.1	0.40	2.12		03/05/17 14:14	622-96-8	
Hexachloro-1,3-butadiene	**<1.4**	ug/m3	4.6	1.4	2.12		03/05/17 14:14	87-68-3	
n-Hexane	**1.4J**	ug/m3	1.5	0.76	2.12		03/05/17 14:14	110-54-3	
2-Hexanone	**<0.87**	ug/m3	8.8	0.87	2.12		03/05/17 14:14	591-78-6	
Isopropylbenzene (Cumene)	**<0.29**	ug/m3	5.3	0.29	2.12		03/05/17 14:14	98-82-8	
Methyl acetate	**<3.3**	ug/m3	3.3	3.3	2.12		03/05/17 14:14	79-20-9	
Methylcyclohexane	**<0.51**	ug/m3	1.7	0.51	2.12		03/05/17 14:14	108-87-2	
Methylene Chloride	**4.0J**	ug/m3	7.5	1.1	2.12		03/05/17 14:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.46**	ug/m3	8.8	0.46	2.12		03/05/17 14:14	108-10-1	
Methyl-tert-butyl ether	**<0.64**	ug/m3	7.8	0.64	2.12		03/05/17 14:14	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D
Report Date: 06-Mar-2017 10:17

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06411.D
Lab Smp Id: 10379458011
Inj Date : 05-MAR-2017 14:14
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 05-Mar-2017 09:58 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 11
Dil Factor: 2.12000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	2.120	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.012	2.979	(0.538)	4016	0.49727	1.05(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.060	3.021	(0.546)	10860	0.20039	0.425(M)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.545	3.542	(0.633)	601868	118.909	252	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.661	3.655	(0.654)	7691	0.20365	0.432	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.706	3.713	(0.662)	206948	9.46843	20.1(M)	
19	Isopropyl Alcohol	45	3.767	3.764	(0.673)	279075	12.5198	26.5	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						(D)
22	Freon 113	101	3.938	3.934	(0.703)	8404	0.29468	0.625	
23	Methyl Acetate	43	3.944	3.951	(0.704)	11711	0.35193	0.746(Q)	
24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D
Report Date: 06-Mar-2017 10:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	25 Methylene chloride	49	3.996	3.992	(0.714)	8231	0.53356	1.13	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	4.259	4.269	(0.761)	4488	0.36418	0.772(Q)	
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.385	(0.792)	5770	0.33884	0.718	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.481	(0.800)	423761	9.66904	9.67	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.578	4.578	(0.817)	3939	0.17932	0.380(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.716	4.713	(0.842)	4337	0.15341	0.325(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.819	4.838	(0.860)	22025	0.77177	1.64	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.452	5.465	(0.974)	43628	0.98203	2.08	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.481	5.484	(0.979)	2461	0.11066	0.235(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1377530	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.986	(1.067)	9903	0.42787	0.907	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1185130	9.61233	9.61	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.147	7.153	(1.276)	44252	0.79538	1.69	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.923)	104414	3.37350	7.15	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	891348	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.069	9.082	(1.049)	18248	0.35463	0.752	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.507	9.507	(1.100)	1533	0.11139	0.236(M)	
	74 o-Xylene	91	9.577	9.581	(1.108)	8406	0.16057	0.340	
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)
	78 4-Ethyltoluene	105	10.909	10.912	(1.262)	2047	0.12613	0.267(M)	
	79 1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D
Report Date: 06-Mar-2017 10:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	80 n-Decane	57	11.388	11.378	(2.033)	6922	0.42904	0.910(Q)	
	81 Tert-Butyl Benzene	119	Compound Not Detected.						(D)
	82 1,2,4-Trimethylbenzene	105	11.503	11.513	(1.331)	7124	0.13454	0.285	
	83 1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
	84 Sec- Butylbenzene	105	Compound Not Detected.						
$	85 1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	502429	10.2325	10.2	
	86 Benzyl Chloride	91	Compound Not Detected.						
	87 1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
	88 p-Isopropyltoluene	119	Compound Not Detected.						(D)
	89 1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
	90 1,2-Dichlorobenzene	146	Compound Not Detected.						
	91 N-Butylbenzene	91	Compound Not Detected.						(D)
	92 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
	93 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	94 Naphthalene	128	14.175	14.169	(1.640)	4738	0.46784	0.992	
	95 Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D
Report Date: 06-Mar-2017 10:17

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06411.D
Lab Smp Id: 10379458011
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

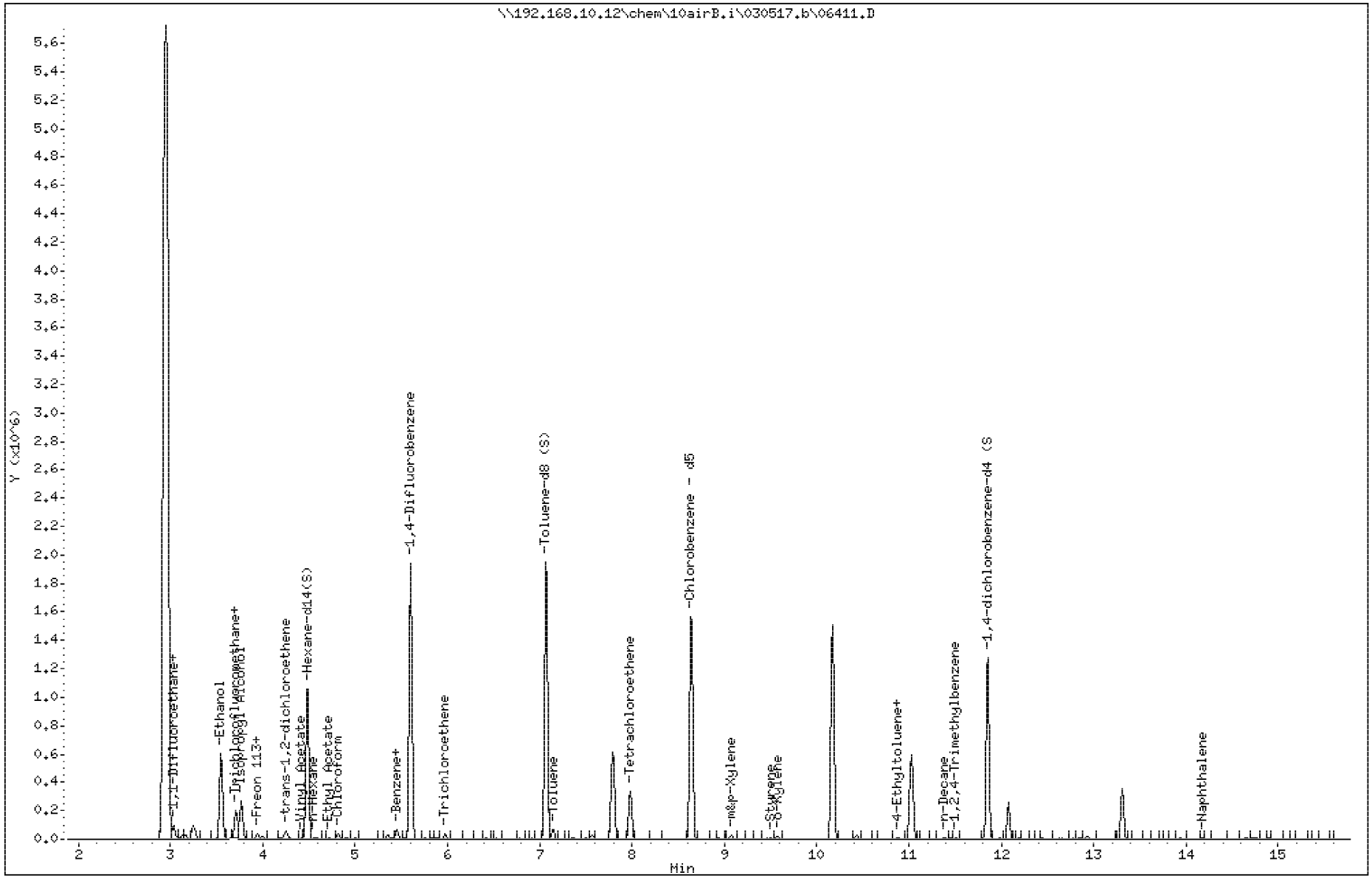
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1377530	-2.59
67 Chlorobenzene - d	951026	570616	1331436	891348	-6.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D
Date : 05-MAR-2017 14:14
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

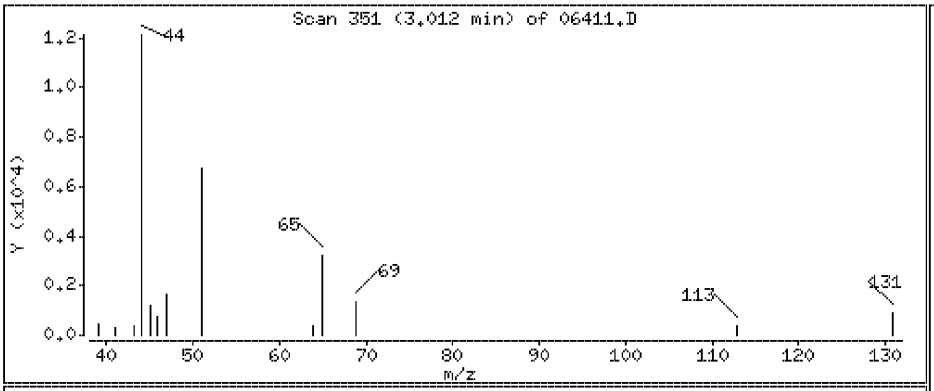
Operator: NCK

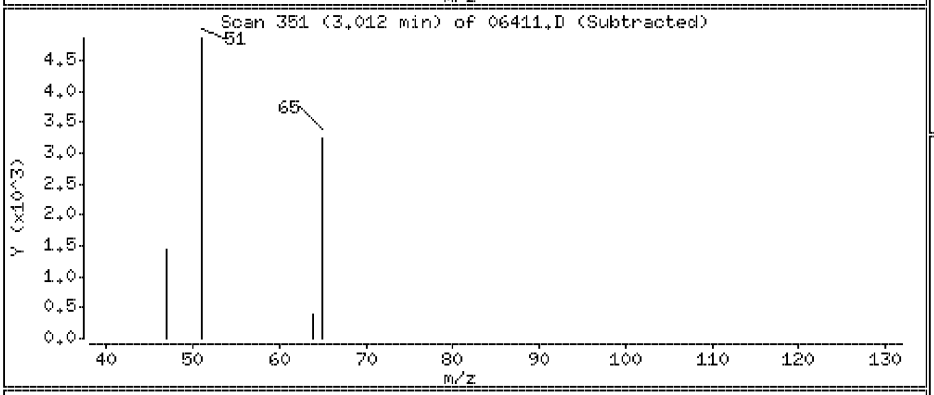
Column phase: J&W DB-5

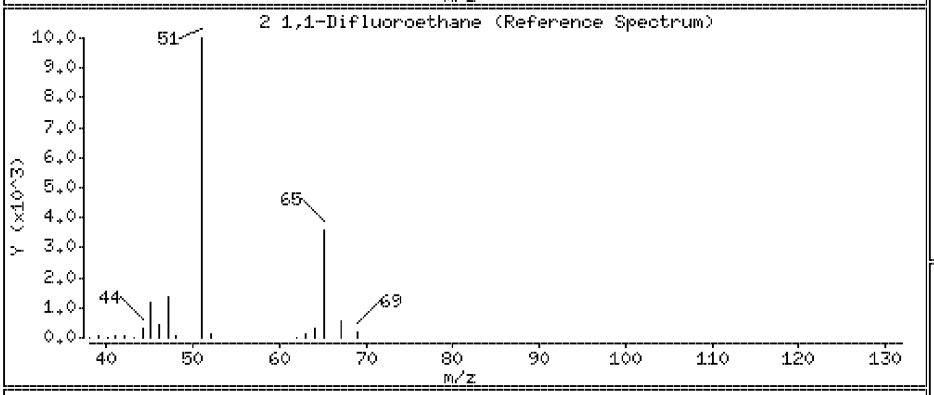
Column diameter: 0.32

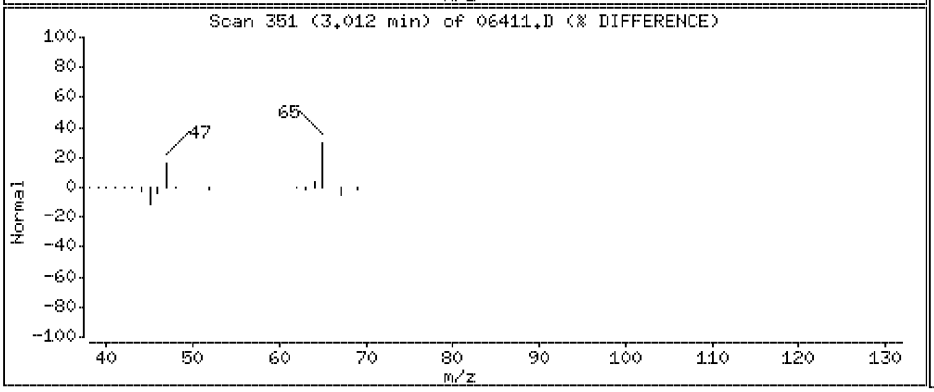
2 1,1-Difluoroethane

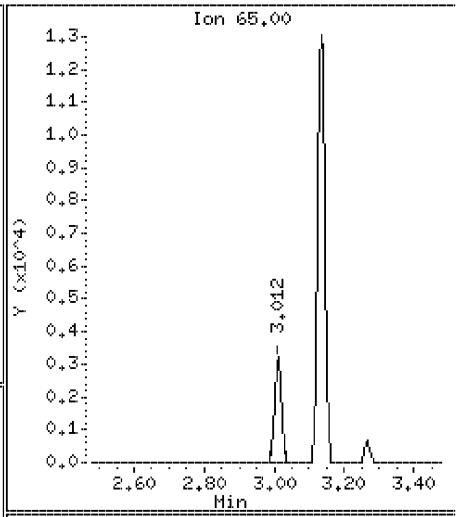
Concentration: 1.05 ppbv

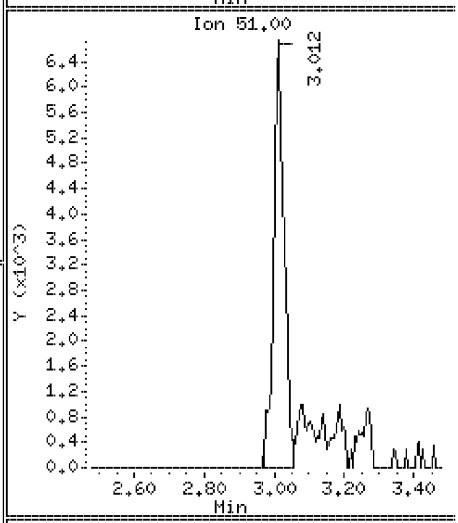


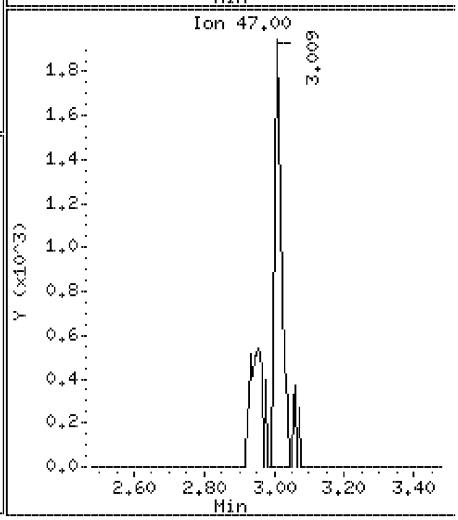












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

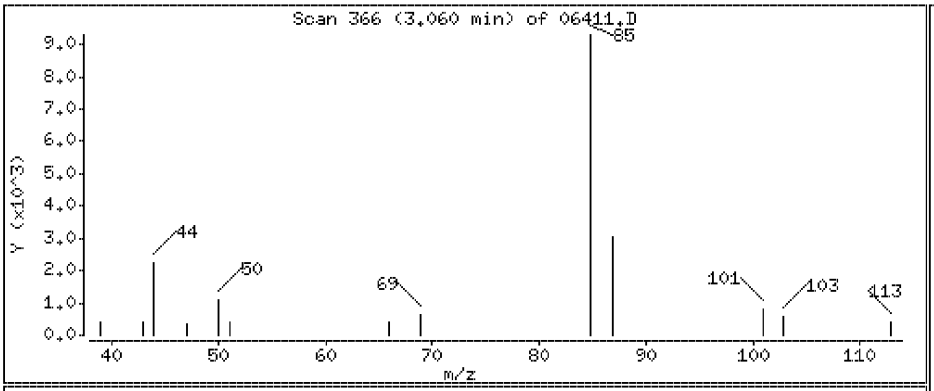
Operator: NCK

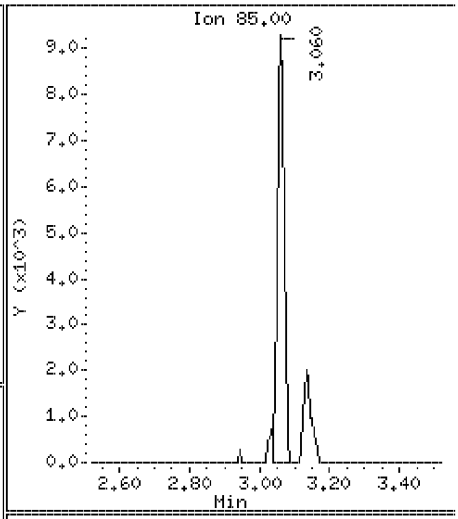
Column phase: J&W DB-5

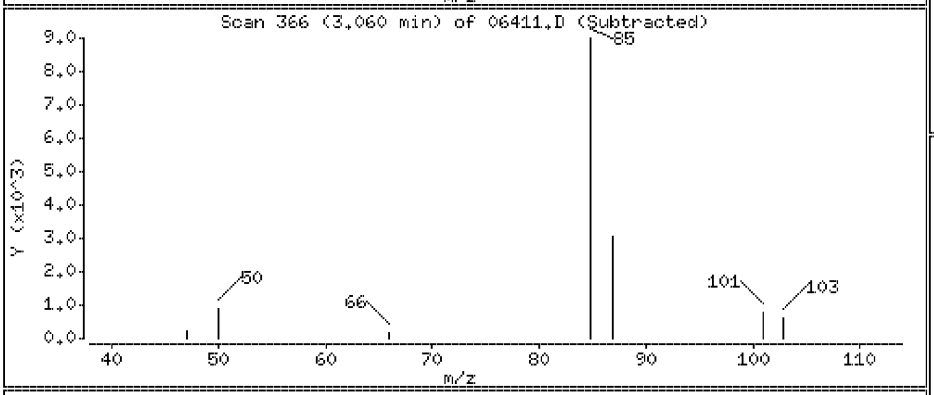
Column diameter: 0.32

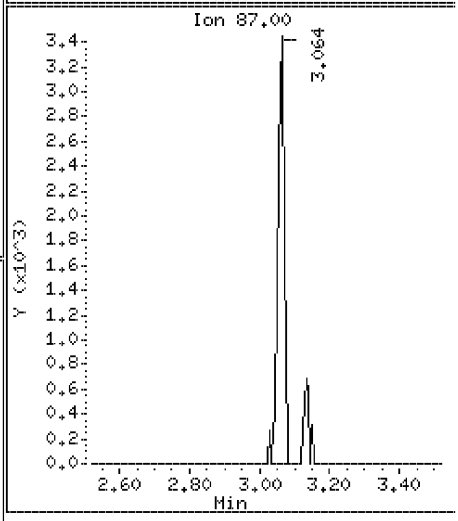
5 Dichlorodifluoromethane

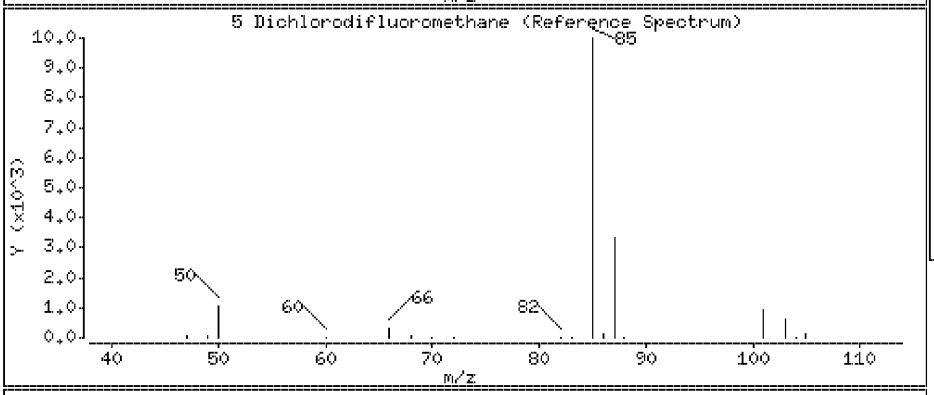
Concentration: 0.425 ppbv

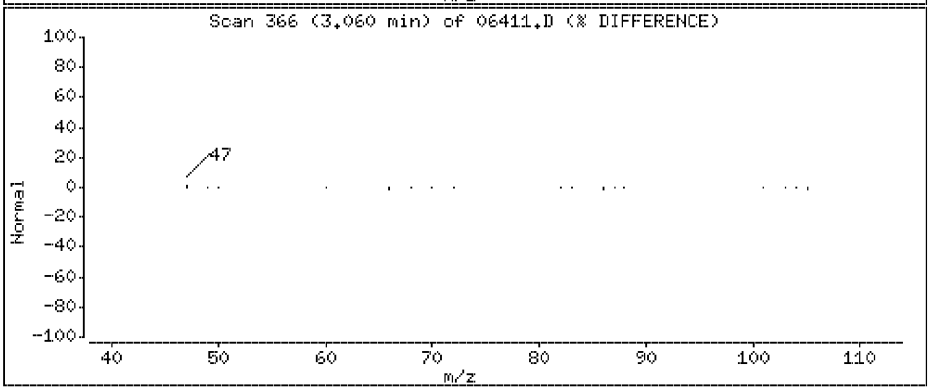












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

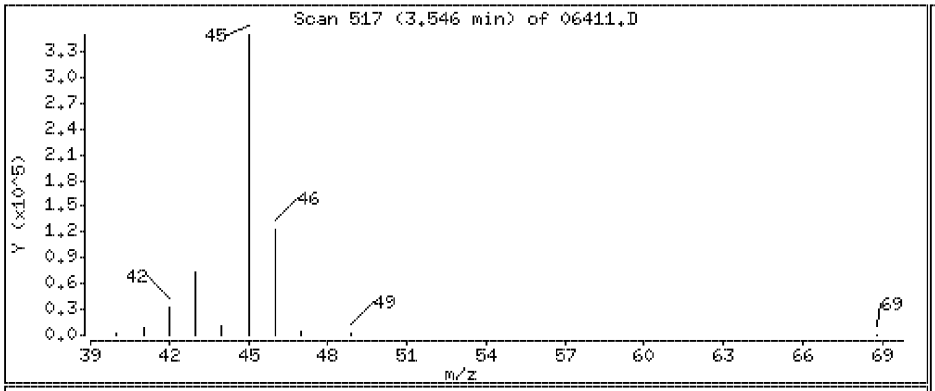
Operator: NCK

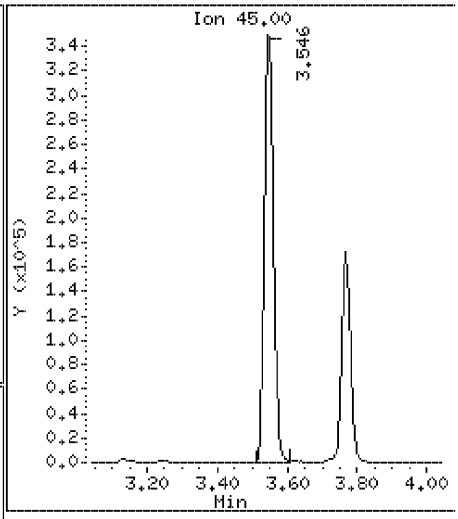
Column phase: J&W DB-5

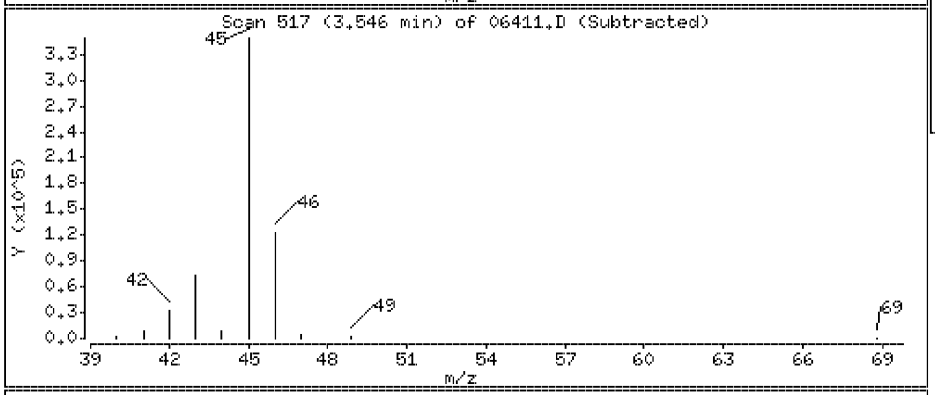
Column diameter: 0.32

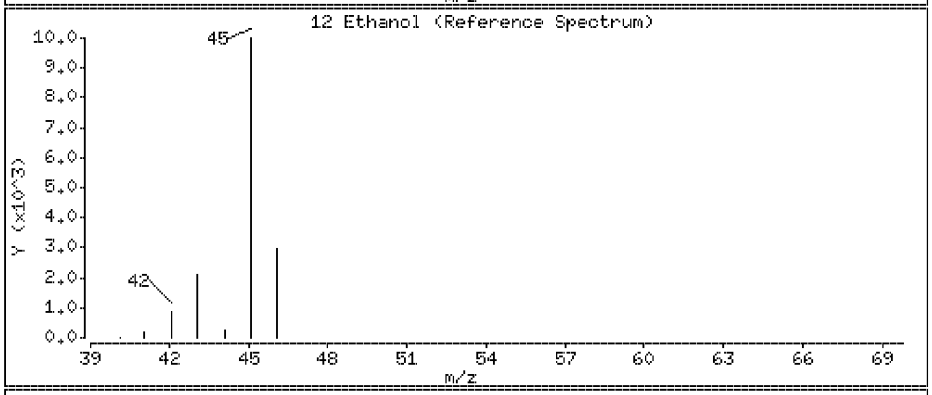
12 Ethanol

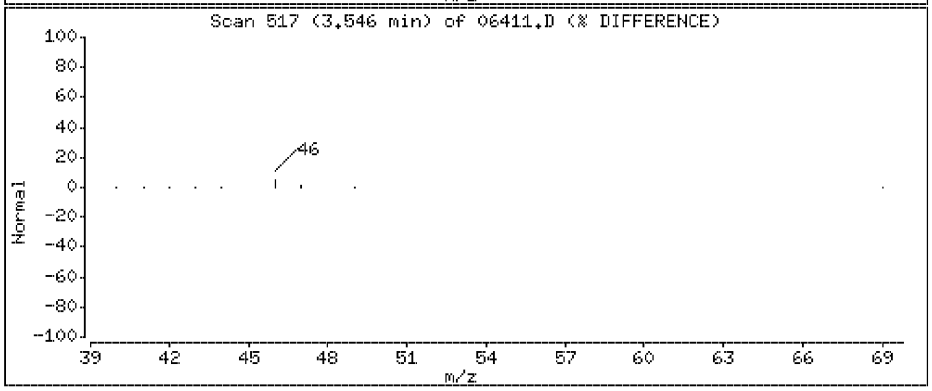
Concentration: 252 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

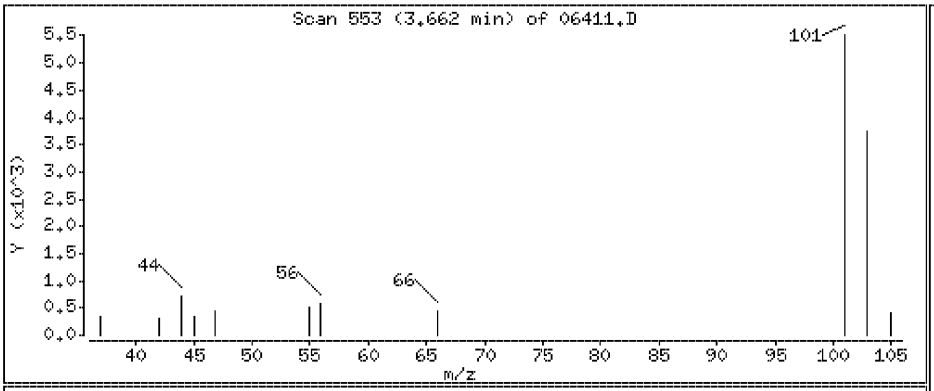
Operator: NCK

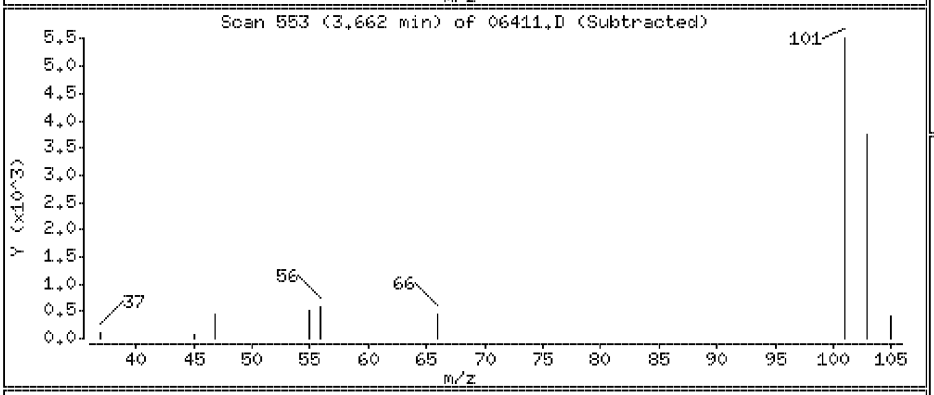
Column phase: J&W DB-5

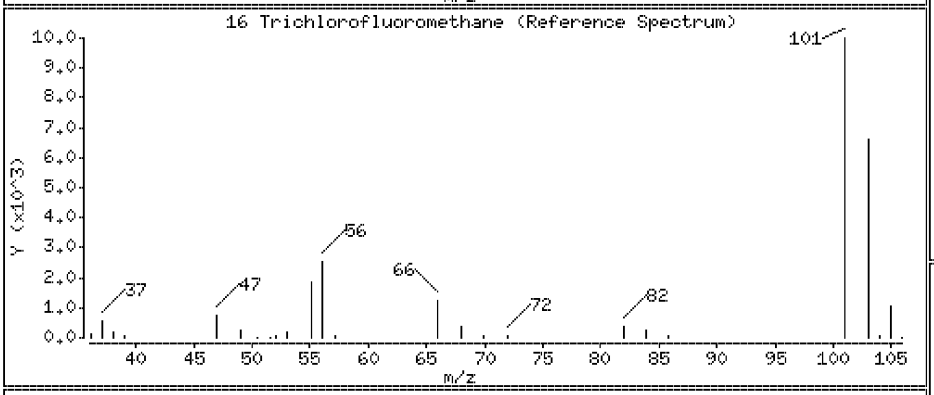
Column diameter: 0.32

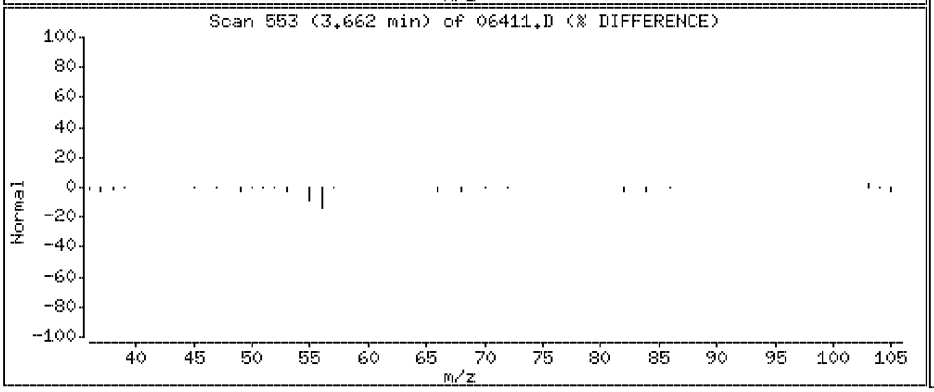
16 Trichlorofluoromethane

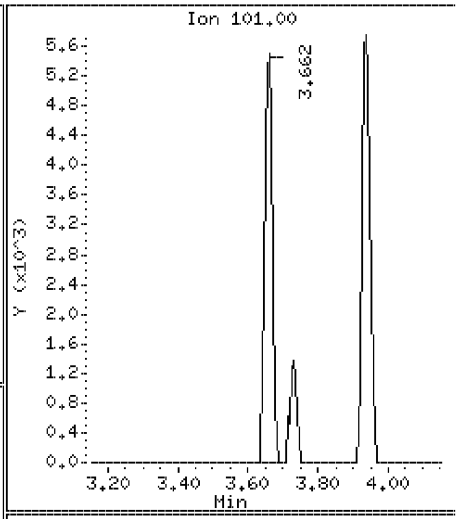
Concentration: 0.432 ppbv

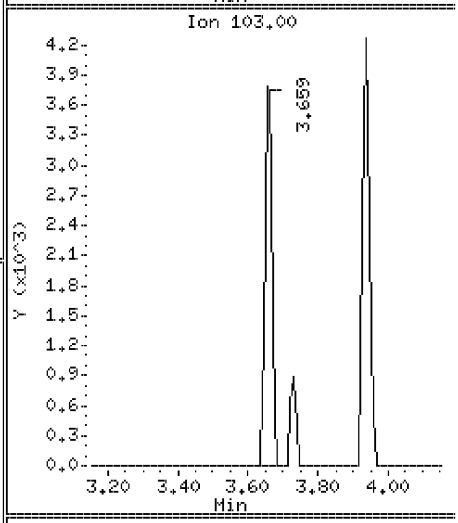


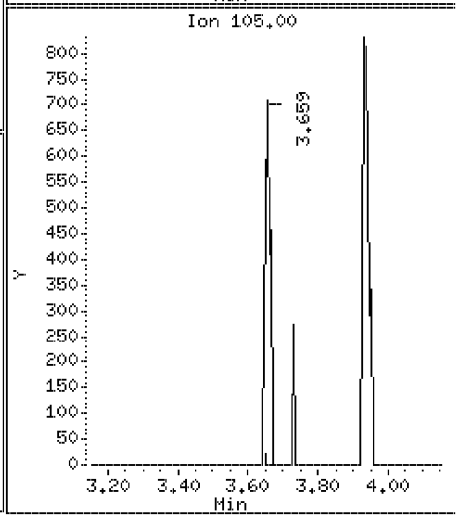












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

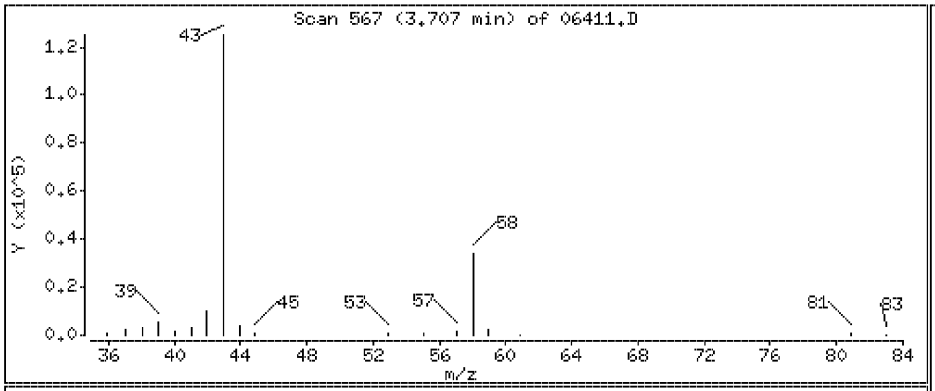
Operator: NCK

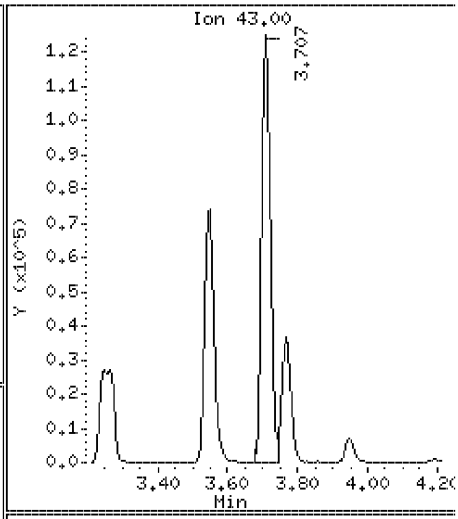
Column phase: J&W DB-5

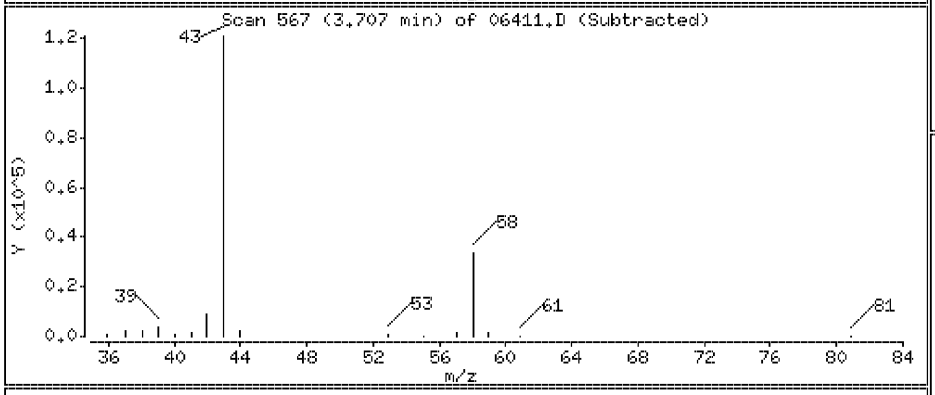
Column diameter: 0.32

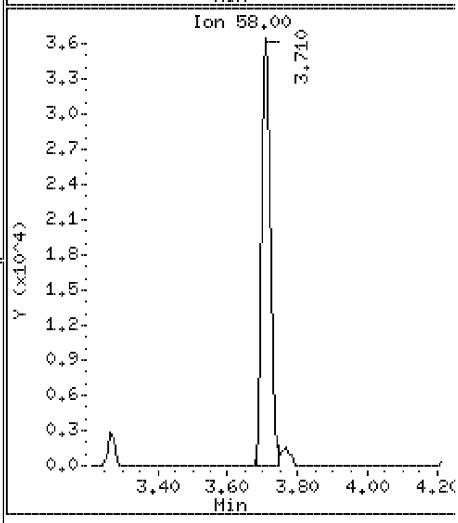
18 Acetone

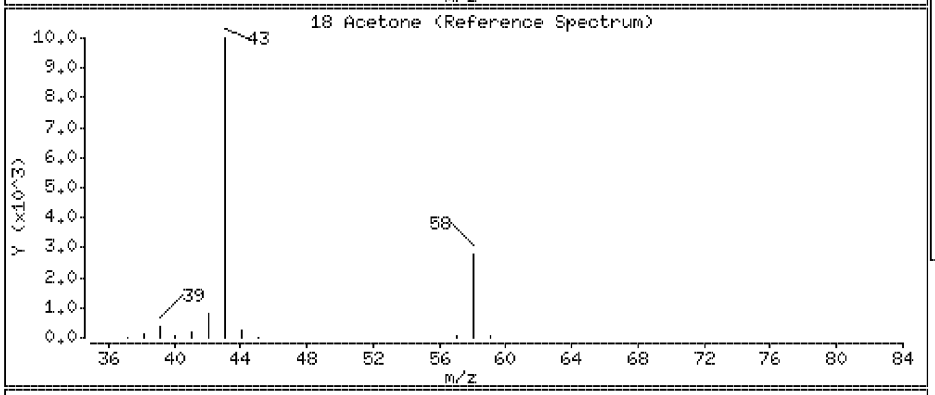
Concentration: 20.1 ppbv

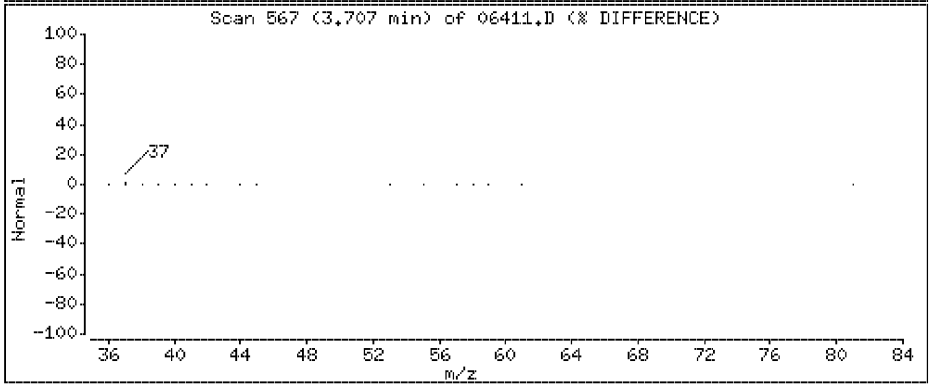












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

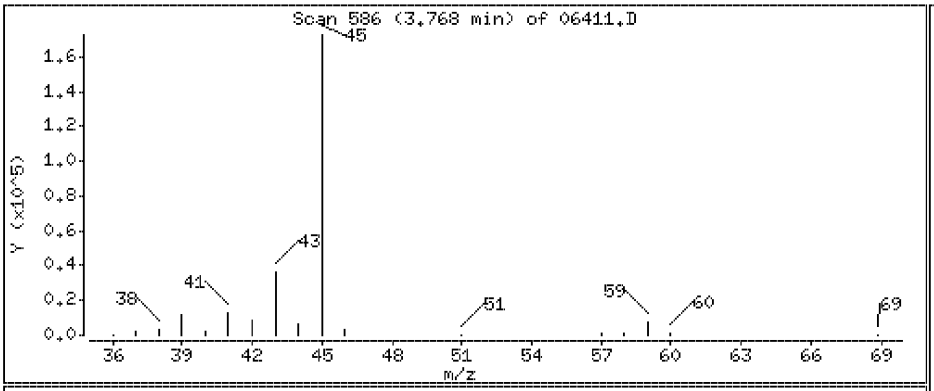
Operator: NCK

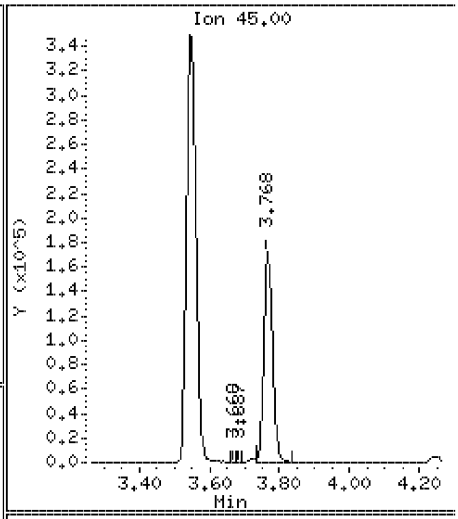
Column phase: J&W DB-5

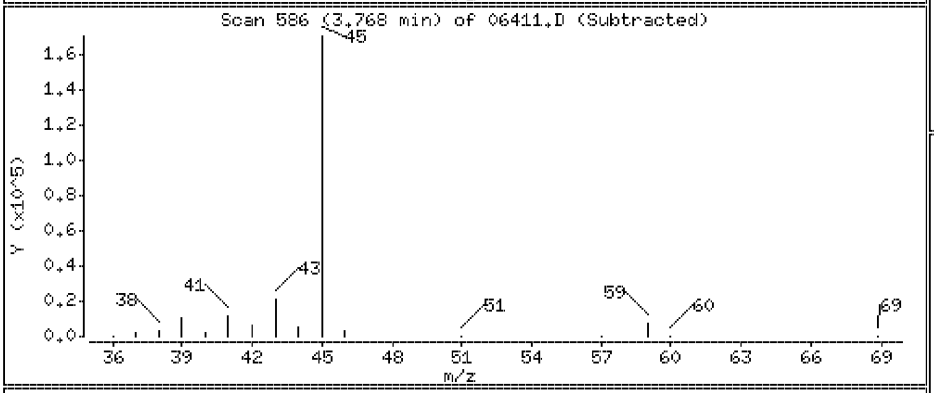
Column diameter: 0.32

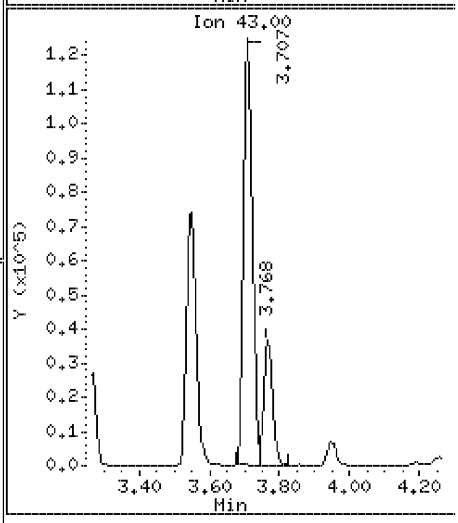
19 Isopropyl Alcohol

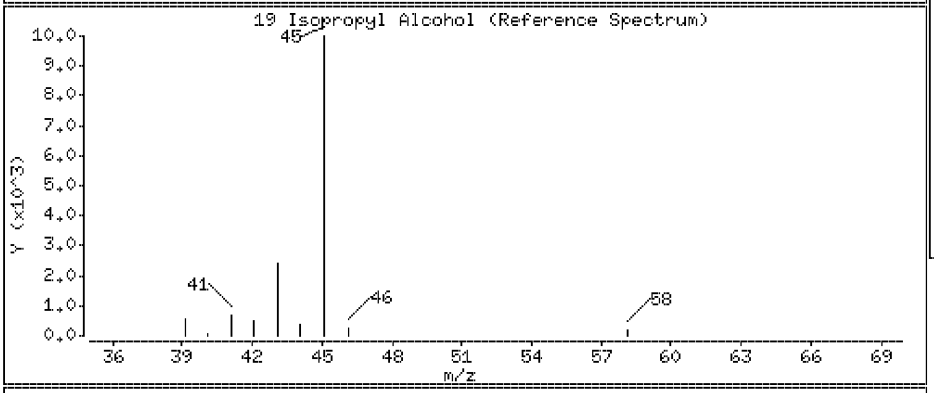
Concentration: 26.5 ppbv

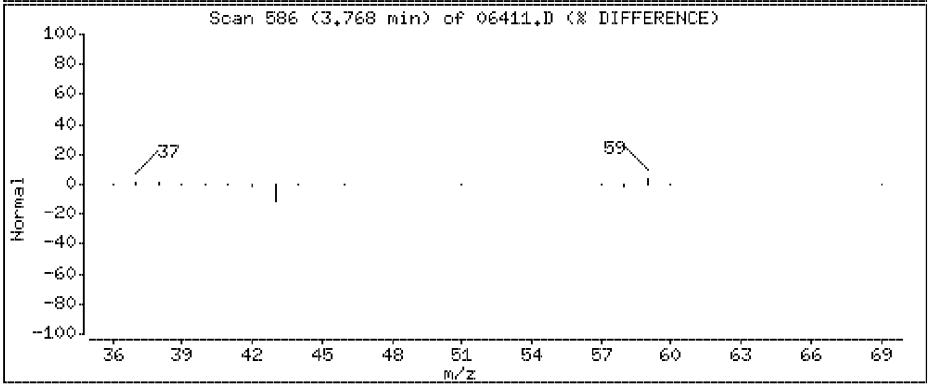












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

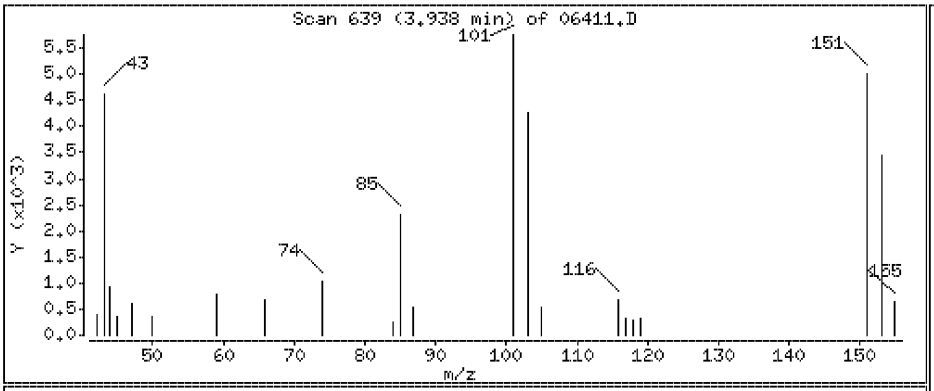
Operator: NCK

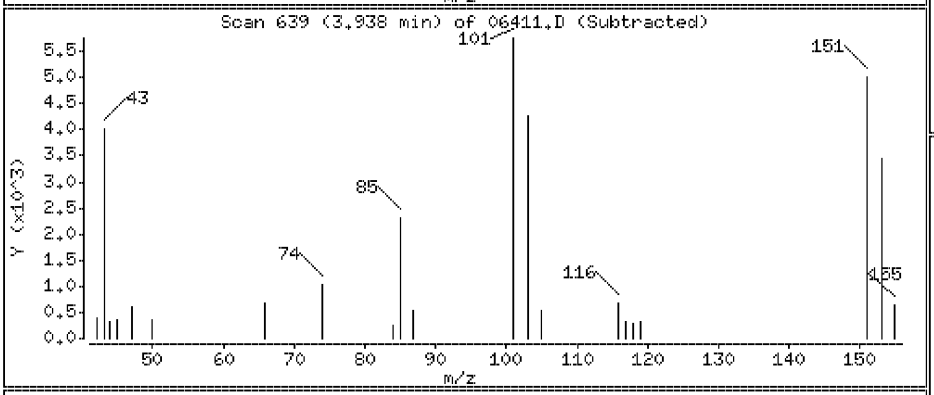
Column phase: J&W DB-5

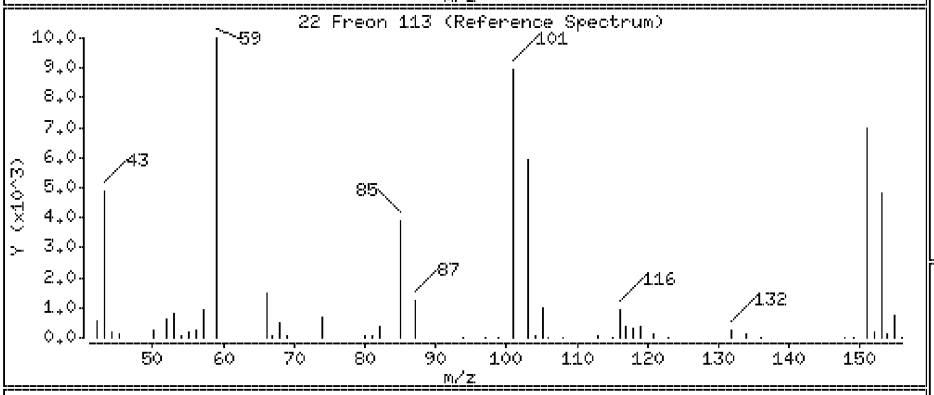
Column diameter: 0.32

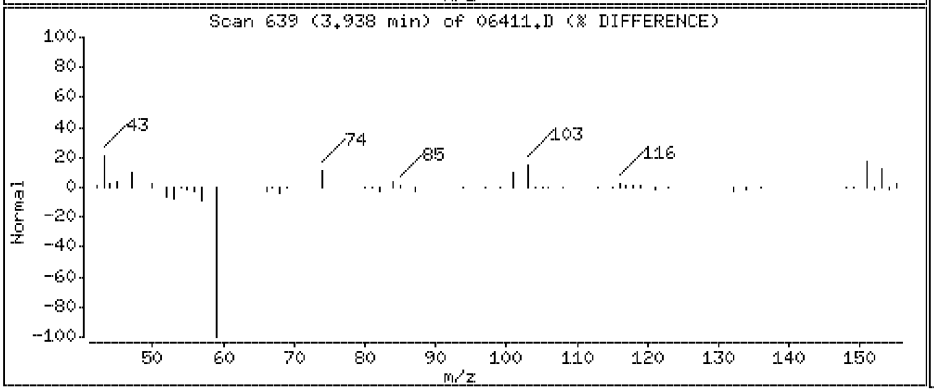
22 Freon 113

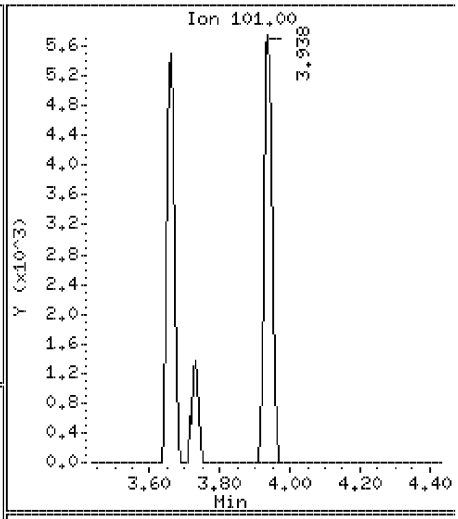
Concentration: 0.625 ppbv

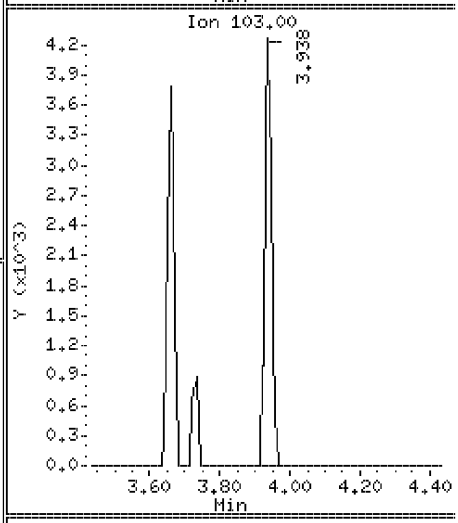


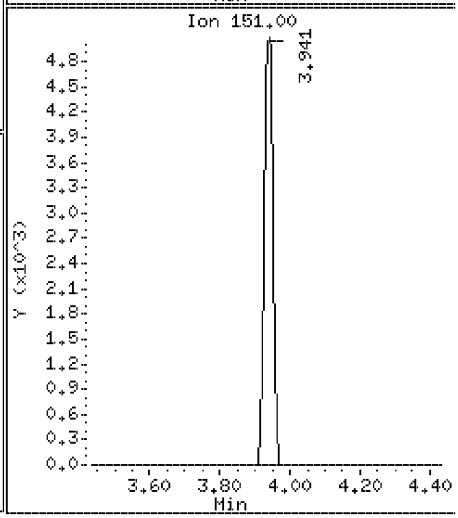












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

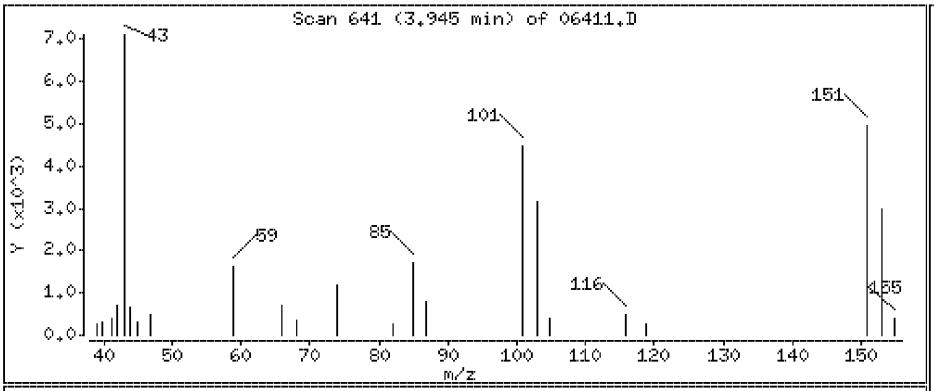
Operator: NCK

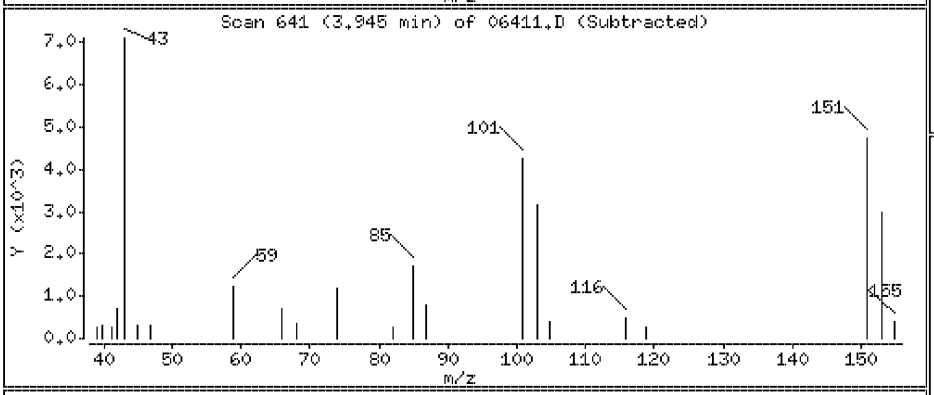
Column phase: J&W DB-5

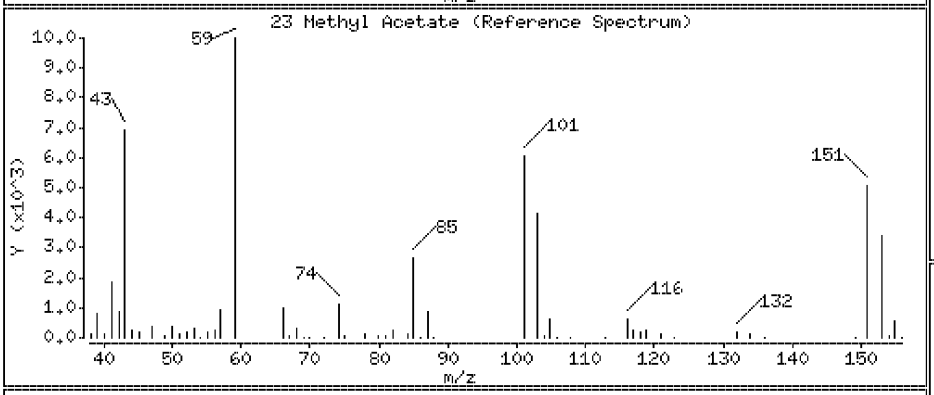
Column diameter: 0.32

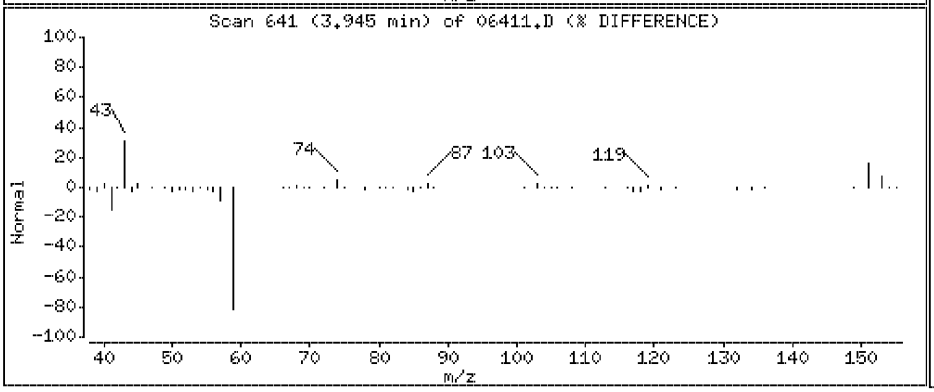
23 Methyl Acetate

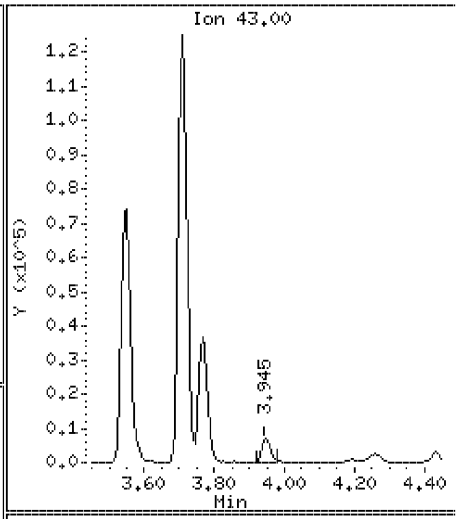
Concentration: 0.746 ppbv

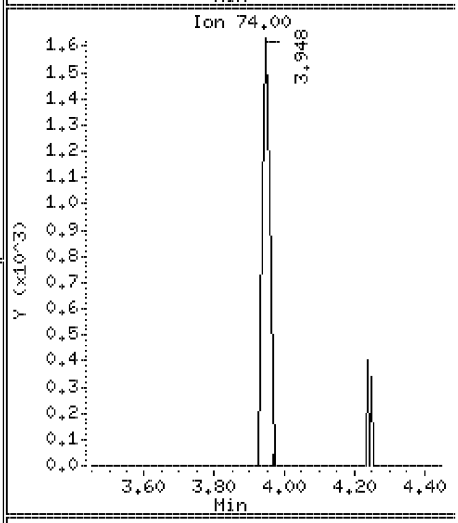


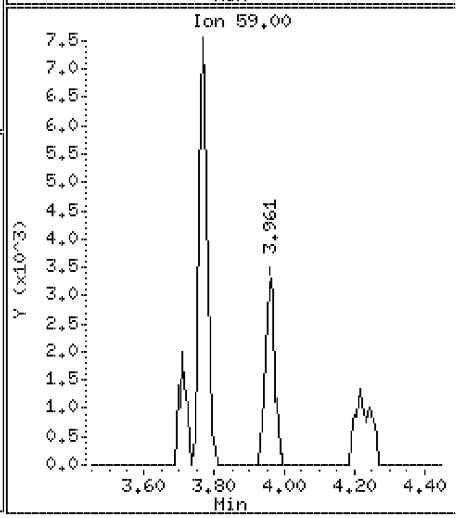












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

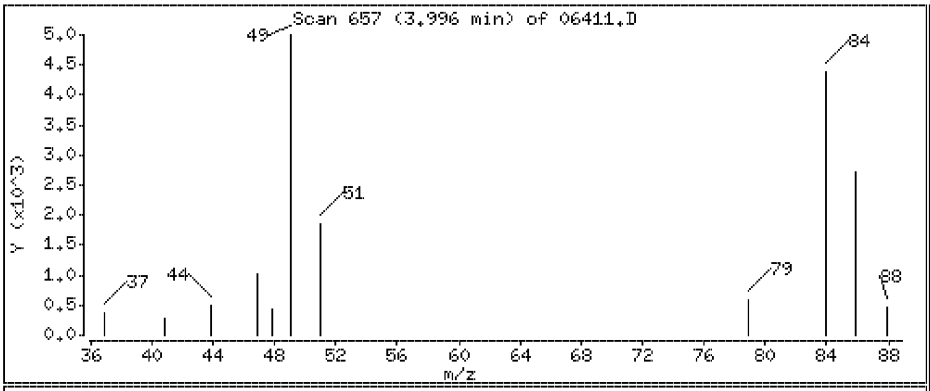
Operator: NCK

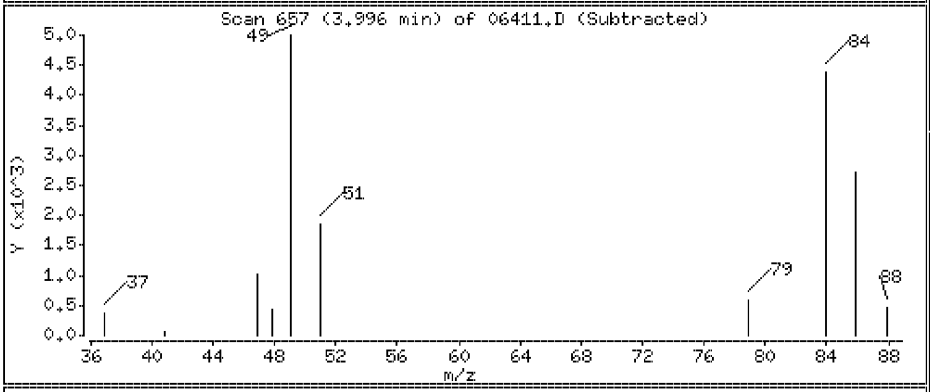
Column phase: J&W DB-5

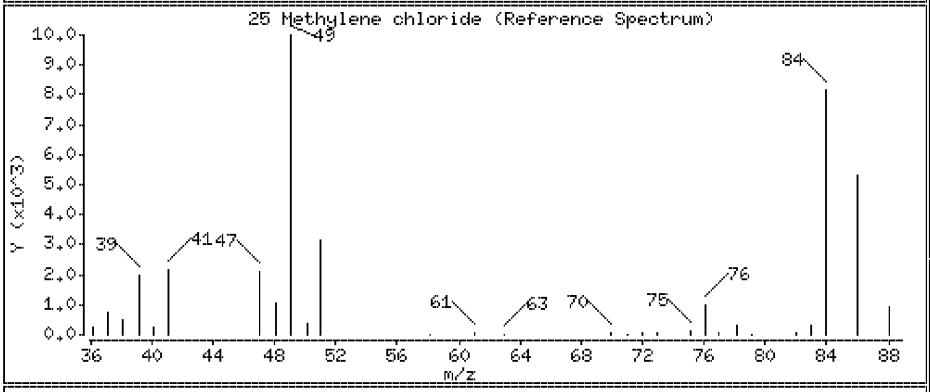
Column diameter: 0.32

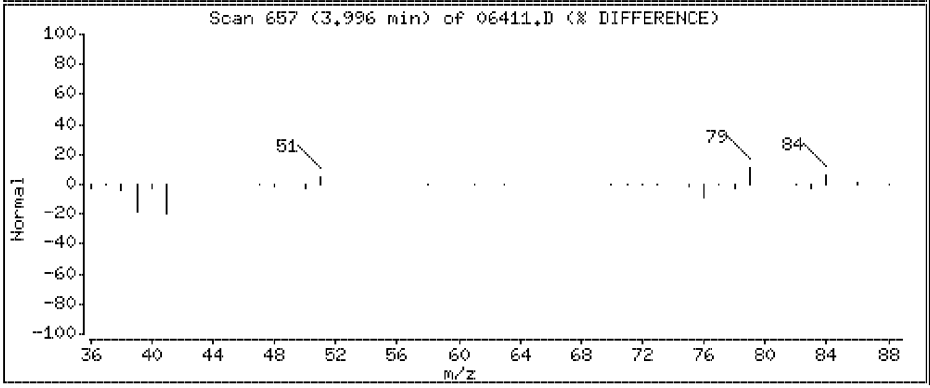
25 Methylene chloride

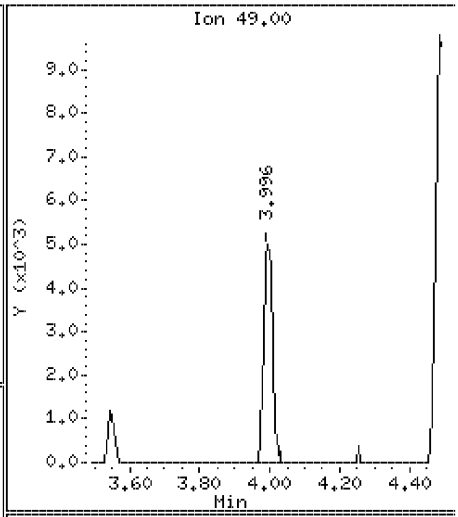
Concentration: 1.13 ppbv

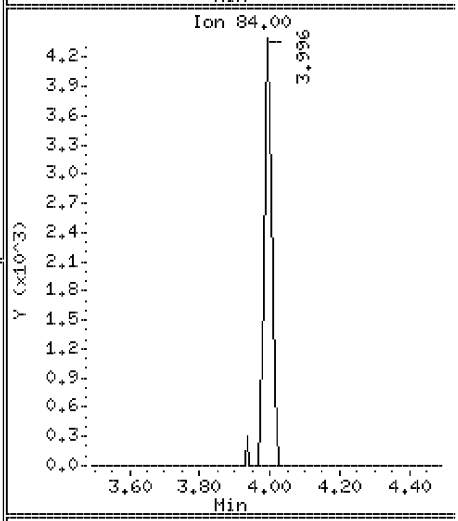


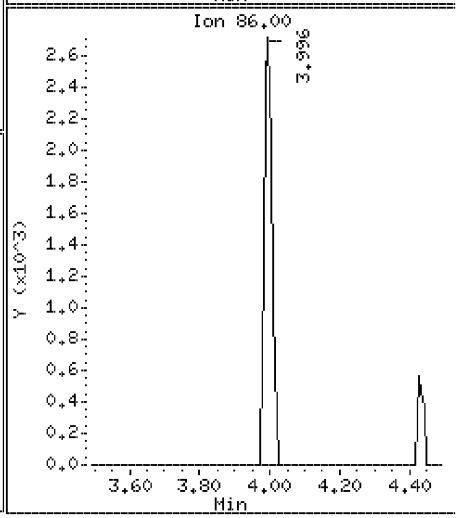












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

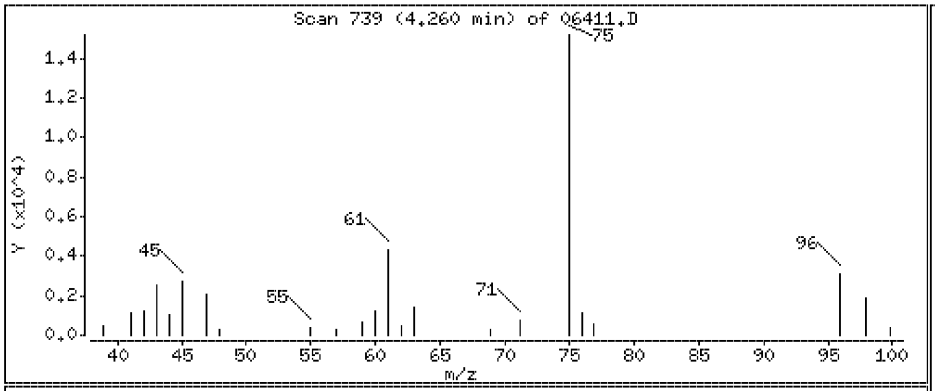
Operator: NCK

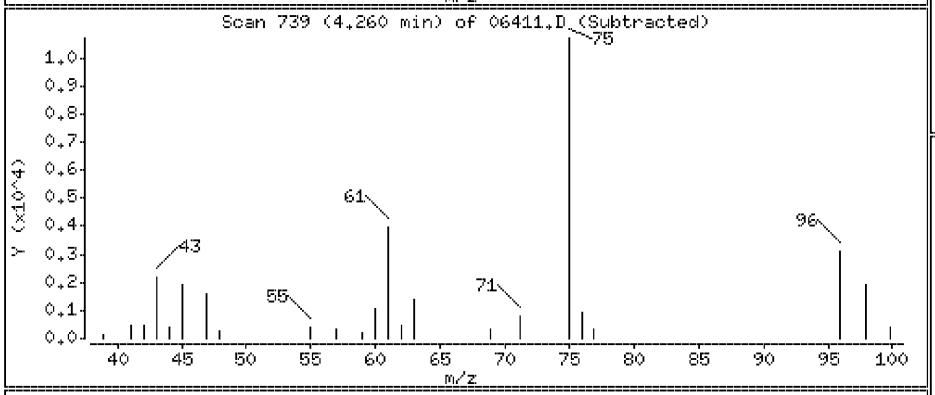
Column phase: J&W DB-5

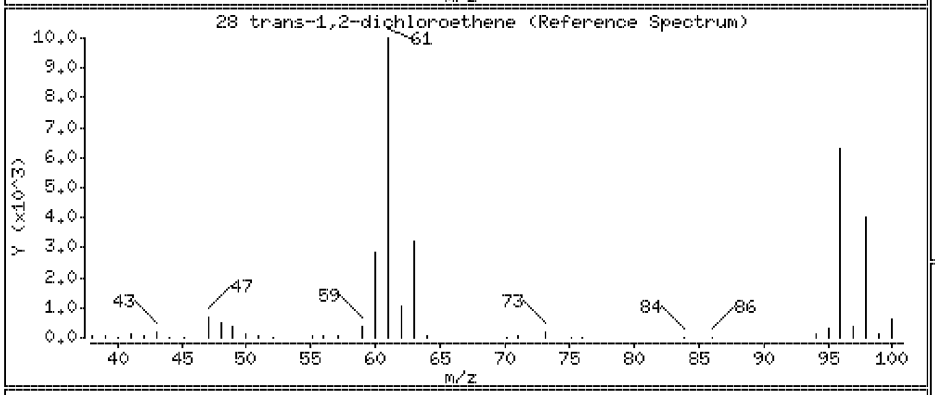
Column diameter: 0.32

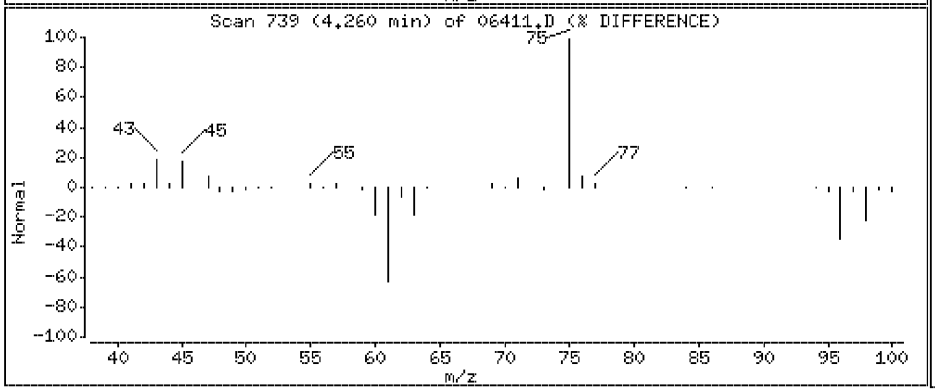
28 trans-1,2-dichloroethene

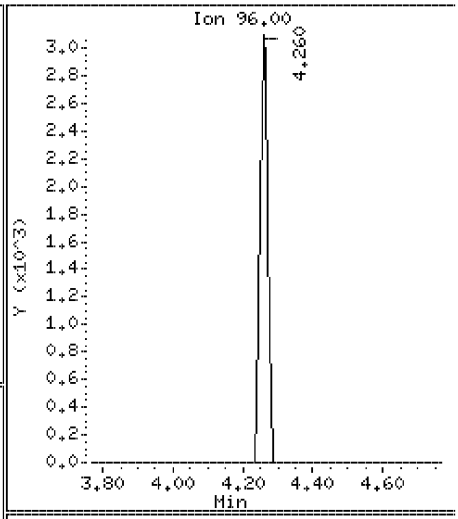
Concentration: 0.772 ppbv

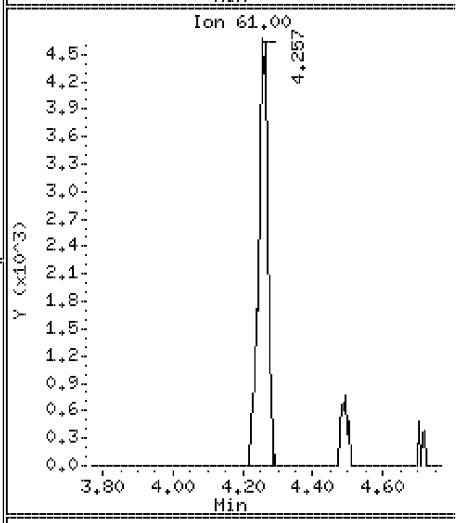


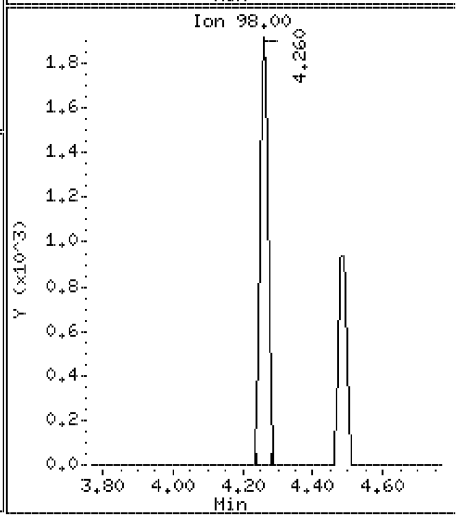












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

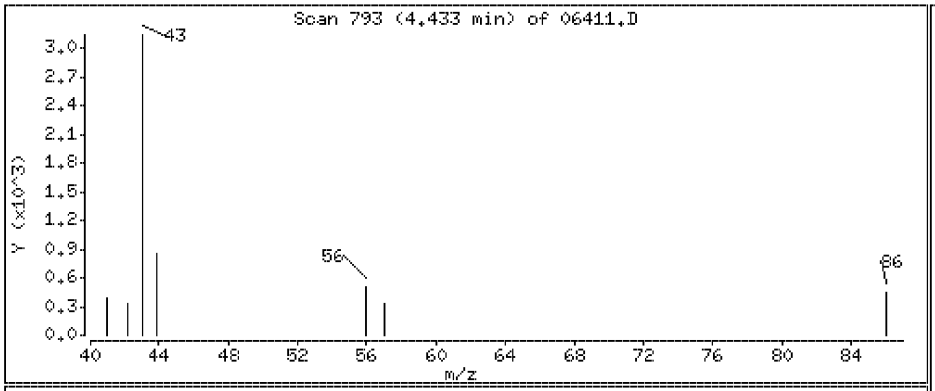
Operator: NCK

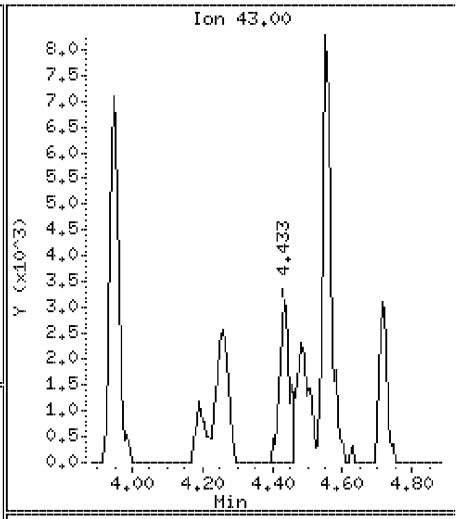
Column phase: J&W DB-5

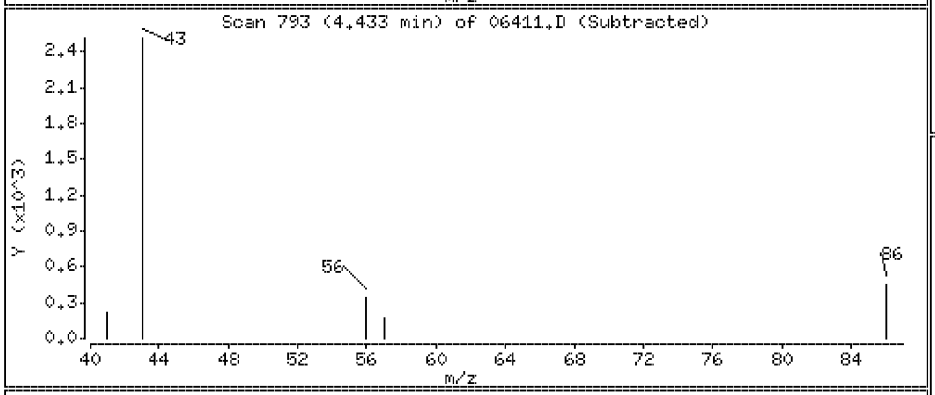
Column diameter: 0.32

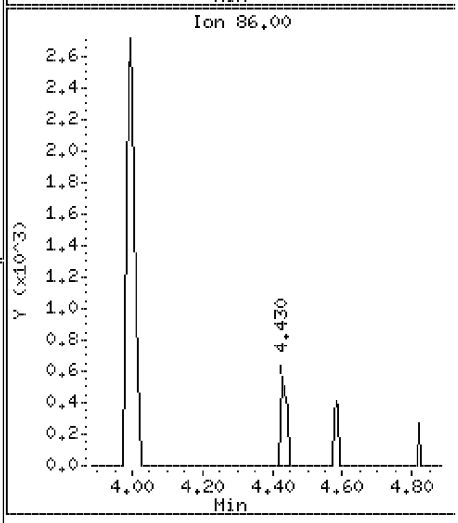
30 Vinyl Acetate

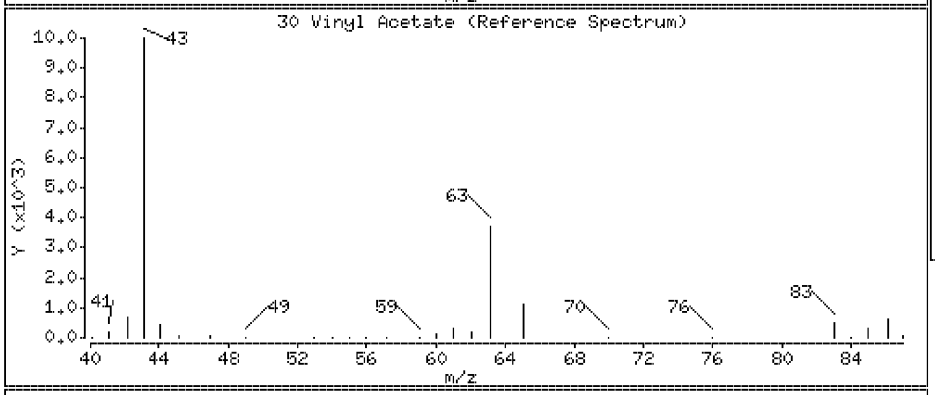
Concentration: 0.718 ppbv

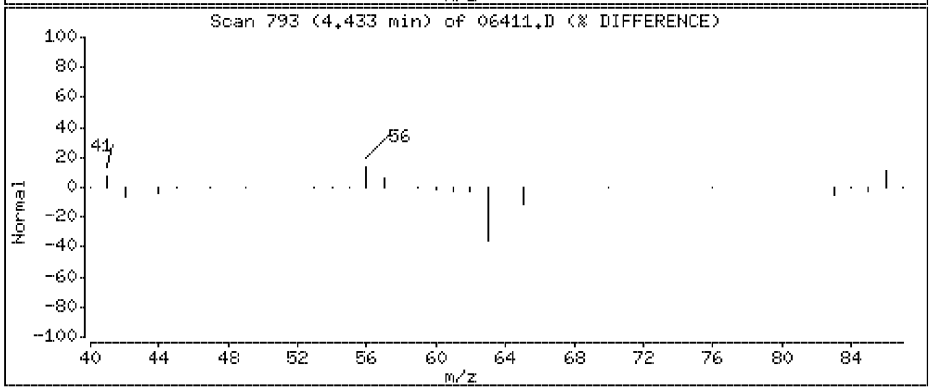












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

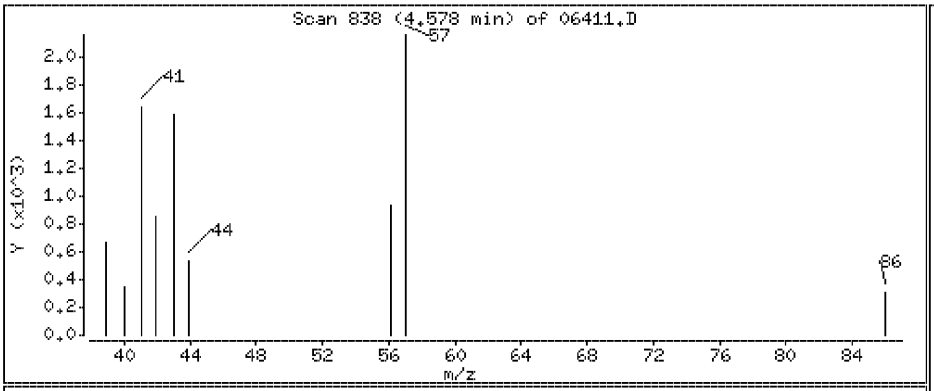
Operator: NCK

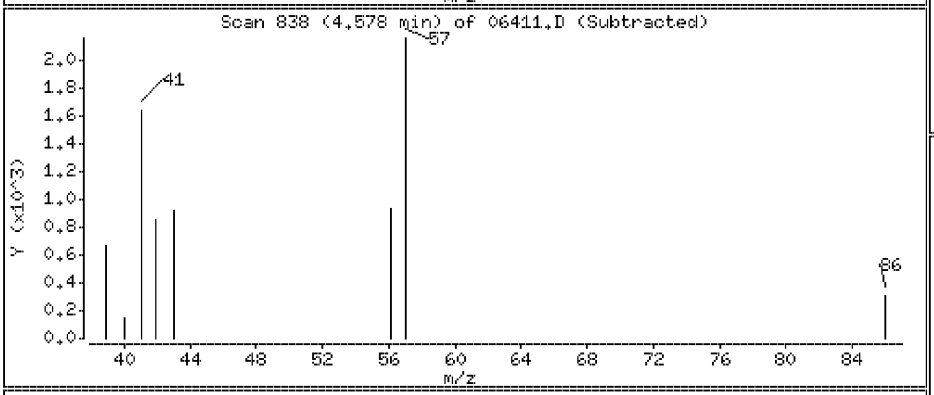
Column phase: J&W DB-5

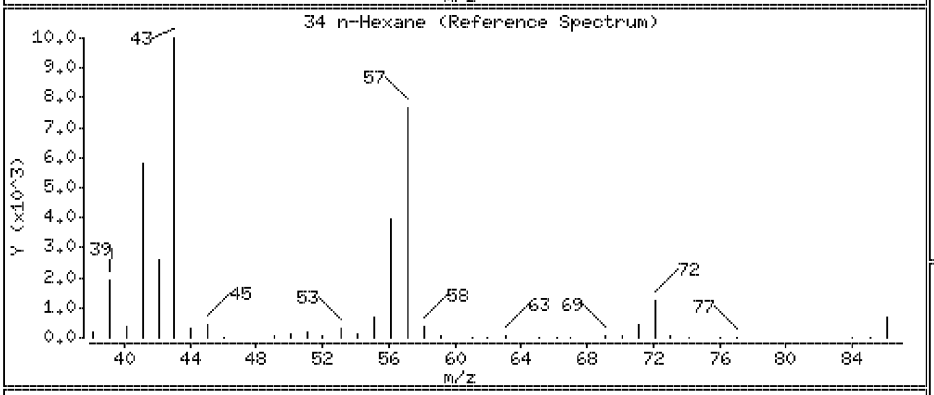
Column diameter: 0.32

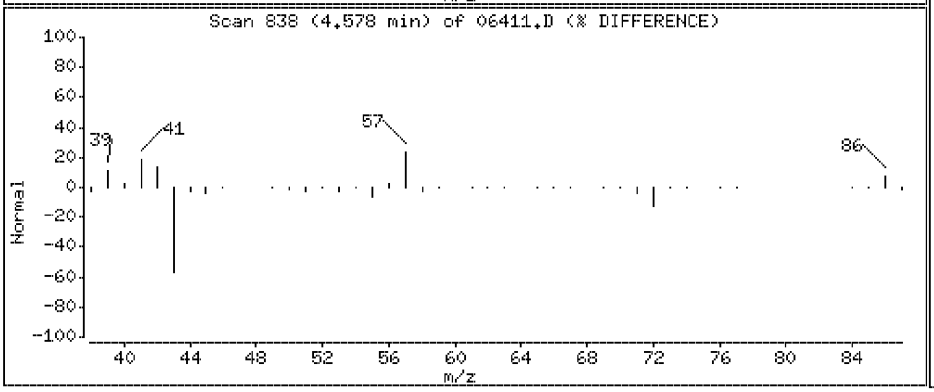
34 n-Hexane

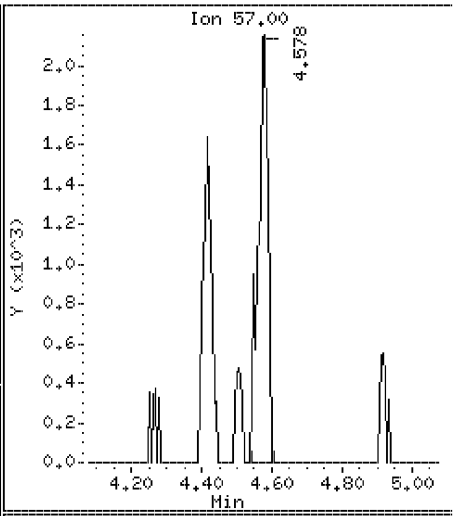
Concentration: 0.380 ppbv

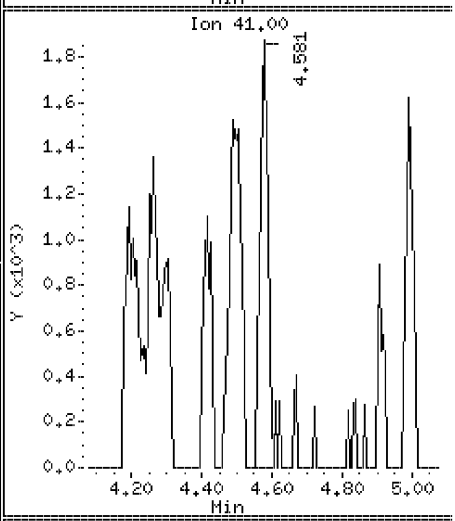


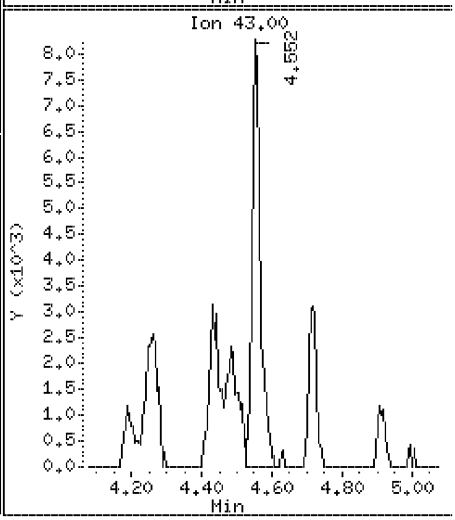












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

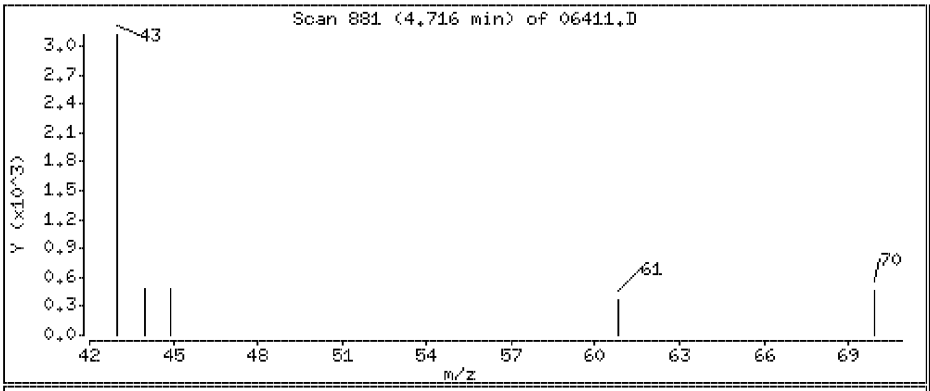
Operator: NCK

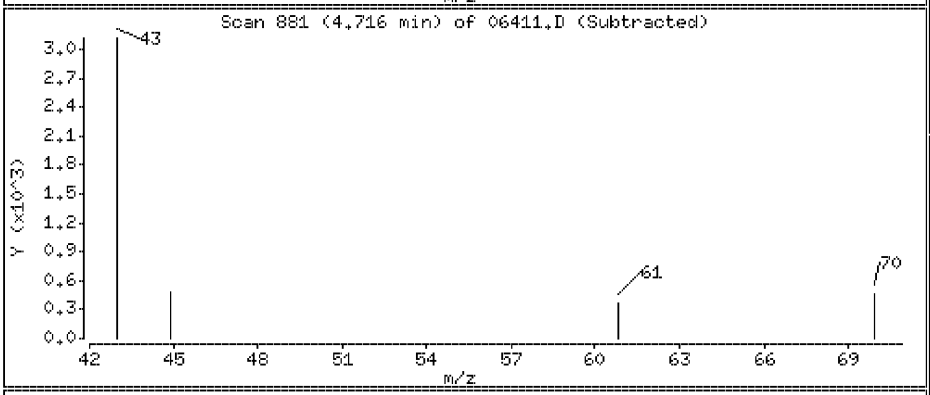
Column phase: J&W DB-5

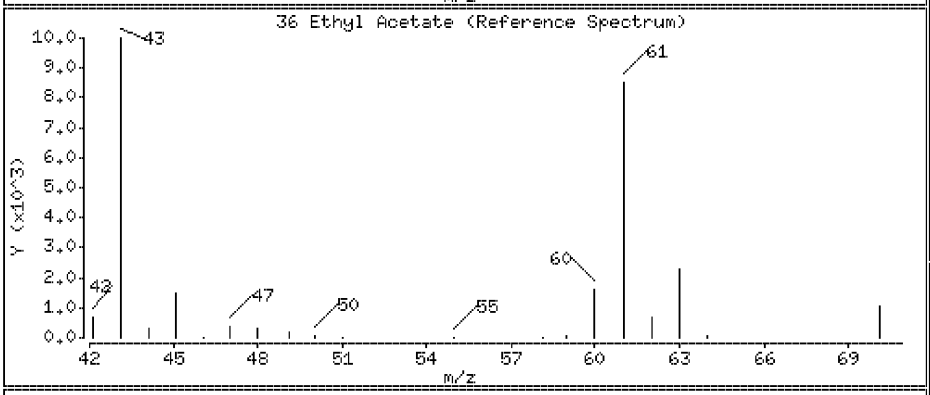
Column diameter: 0.32

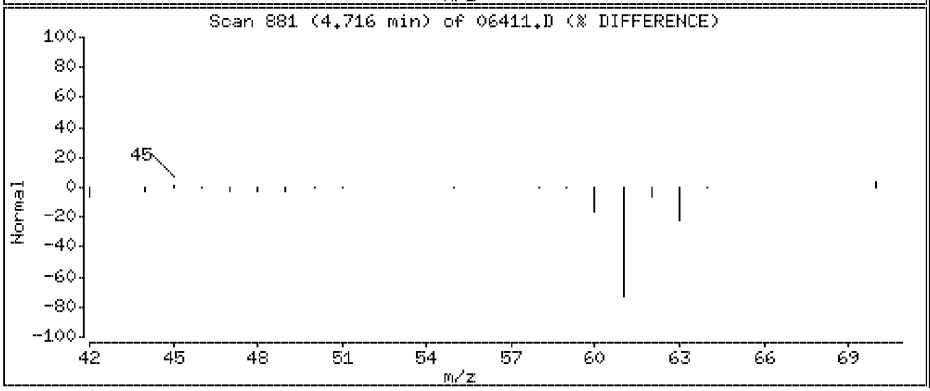
36 Ethyl Acetate

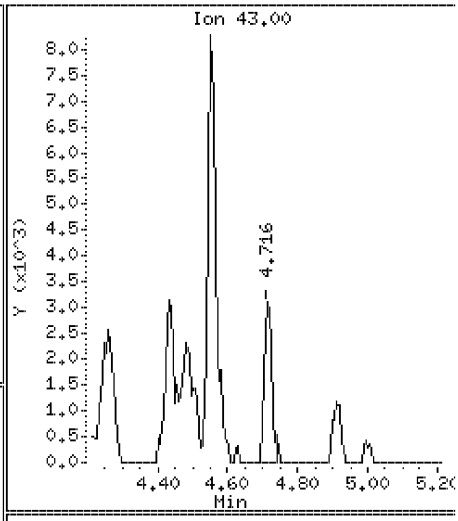
Concentration: 0.325 ppbv

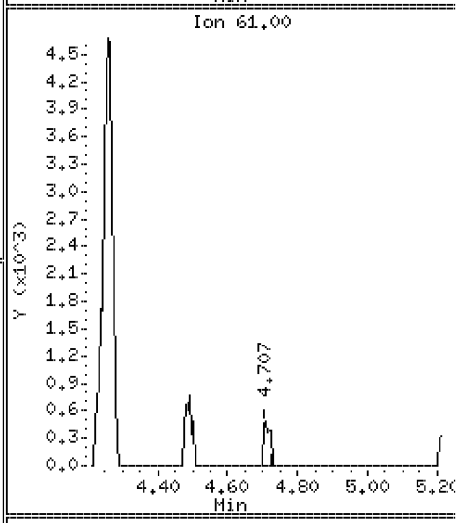


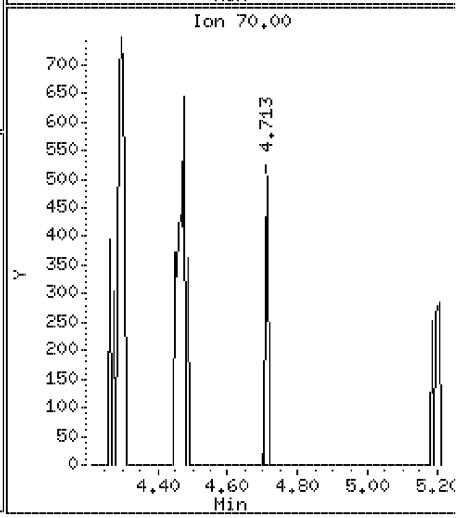












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

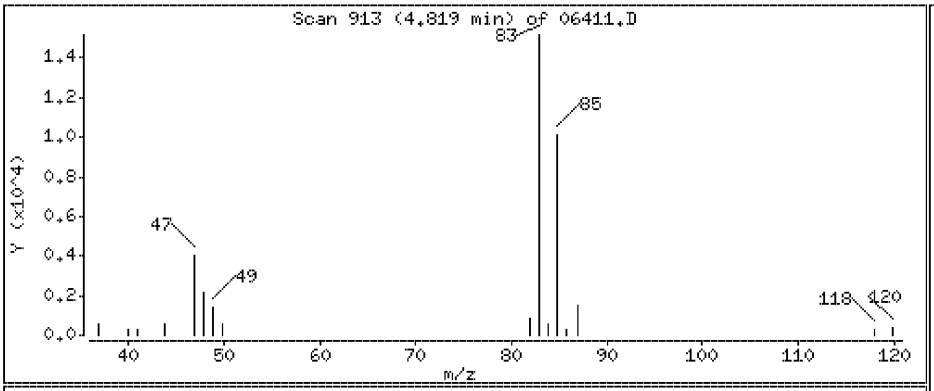
Operator: NCK

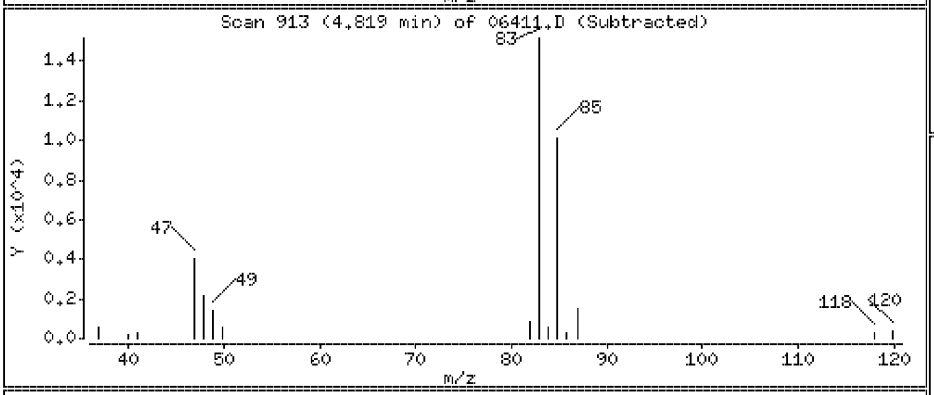
Column phase: J&W DB-5

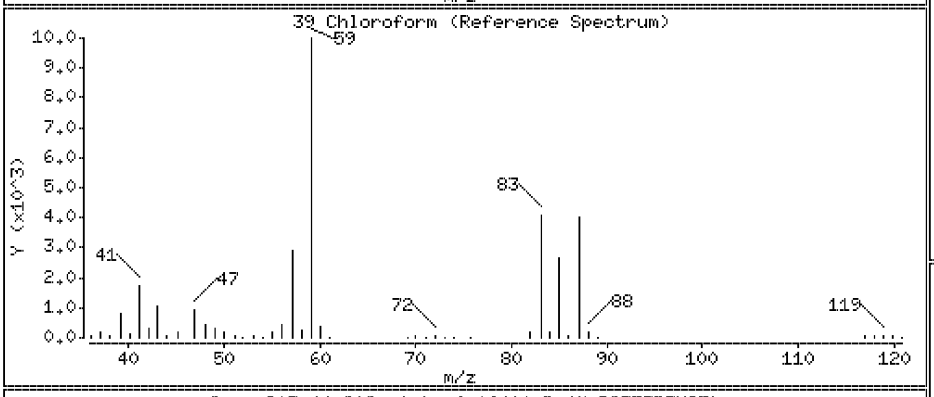
Column diameter: 0.32

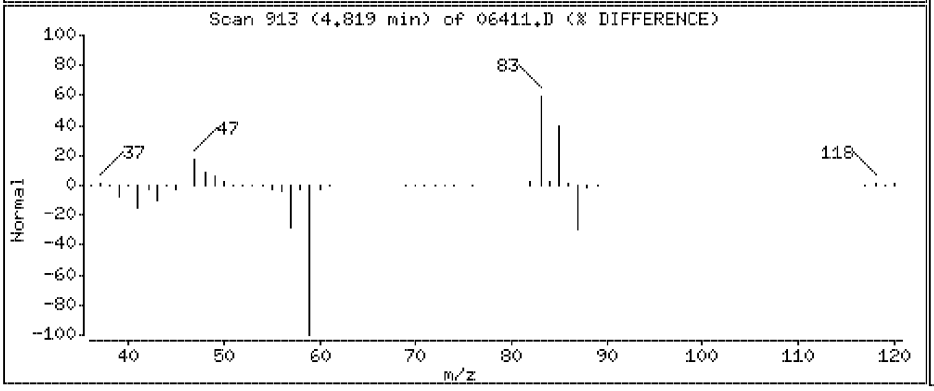
39 Chloroform

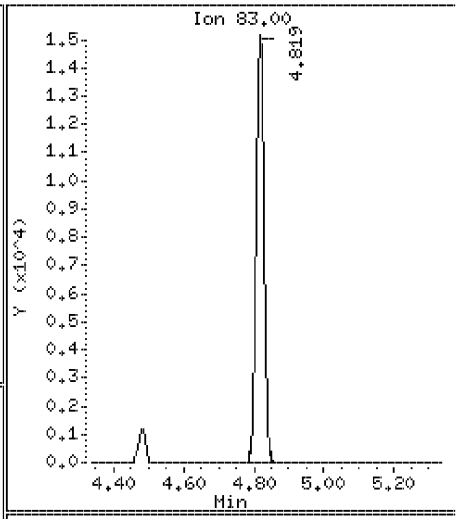
Concentration: 1.64 ppbv

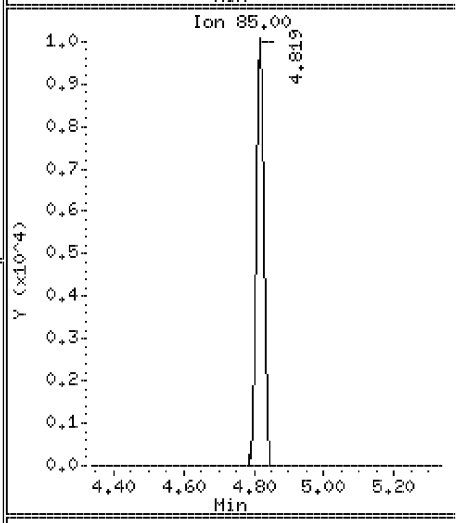


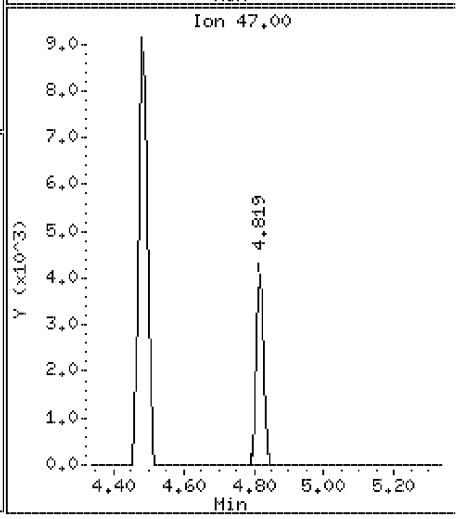












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

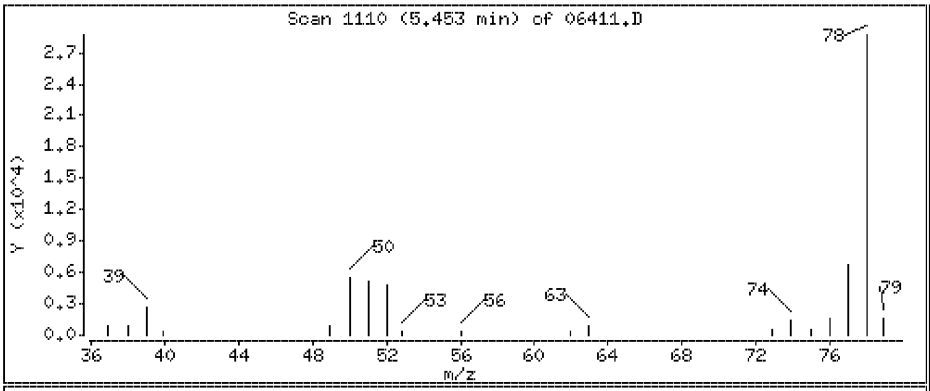
Operator: NCK

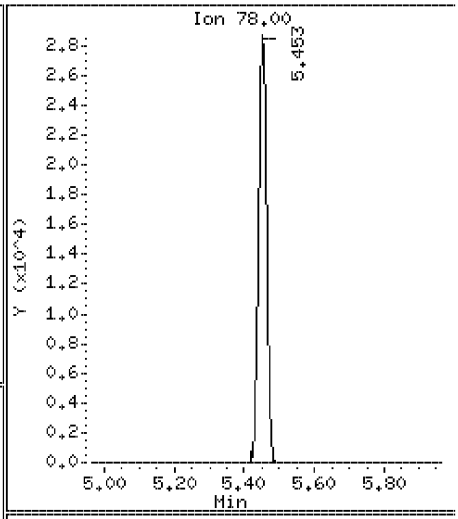
Column phase: J&W DB-5

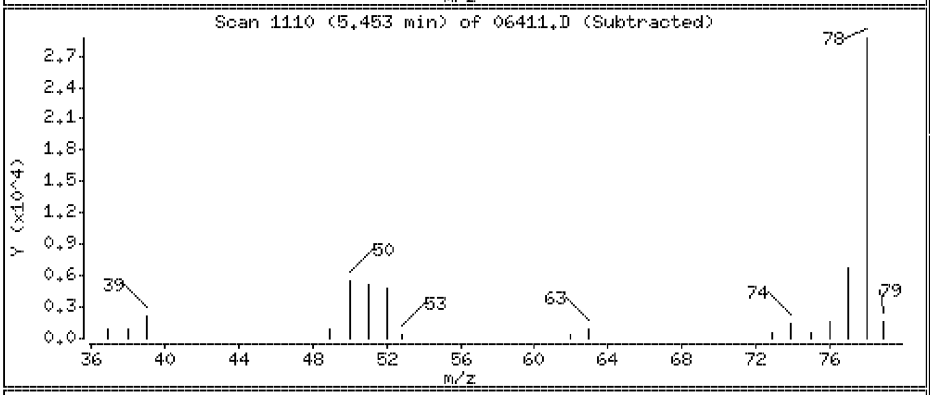
Column diameter: 0.32

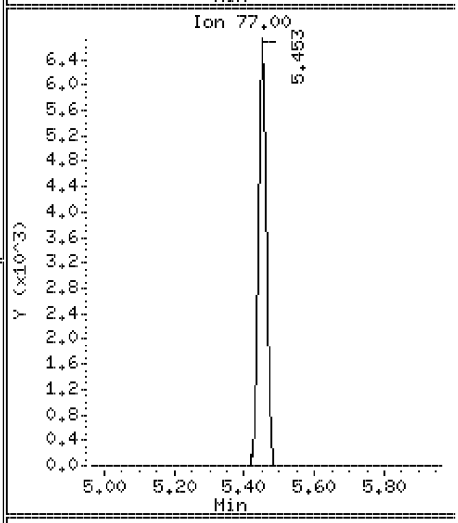
43 Benzene

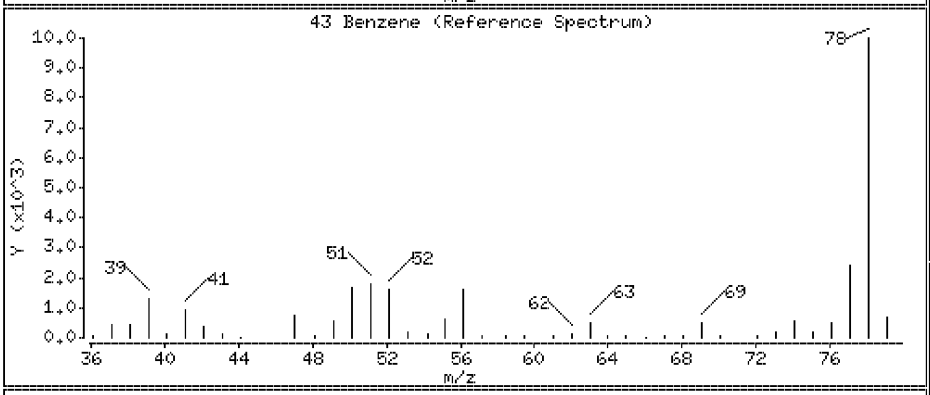
Concentration: 2.08 ppbv

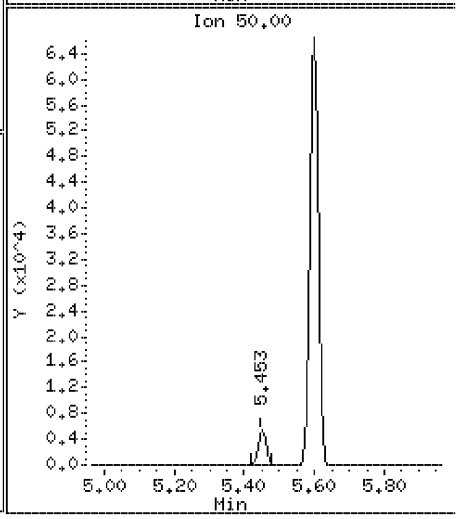


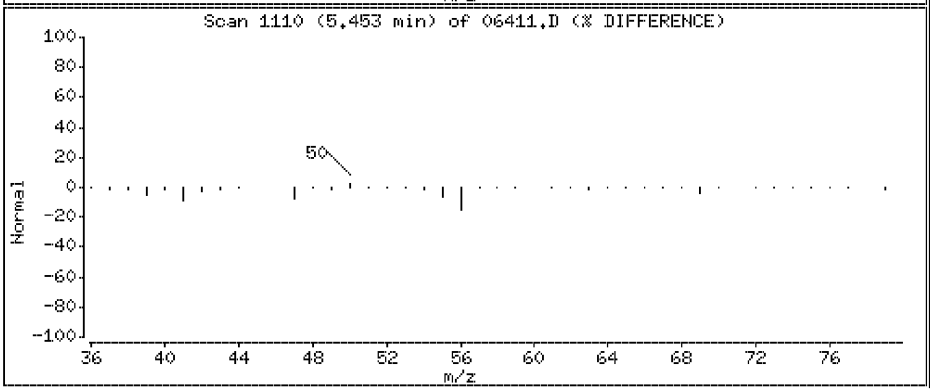












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

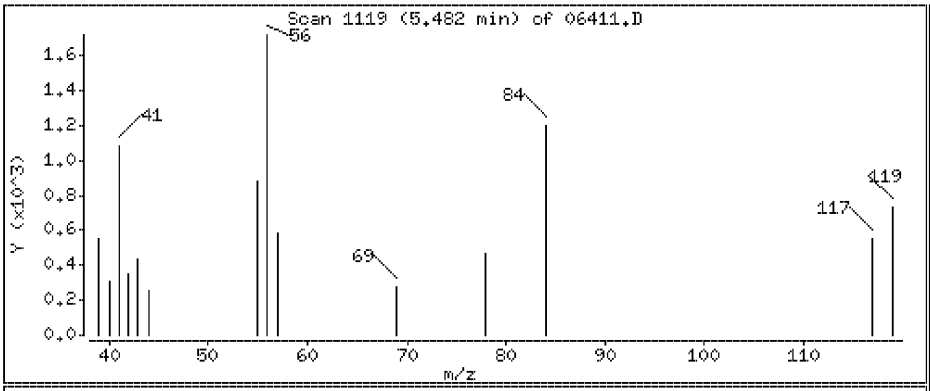
Operator: NCK

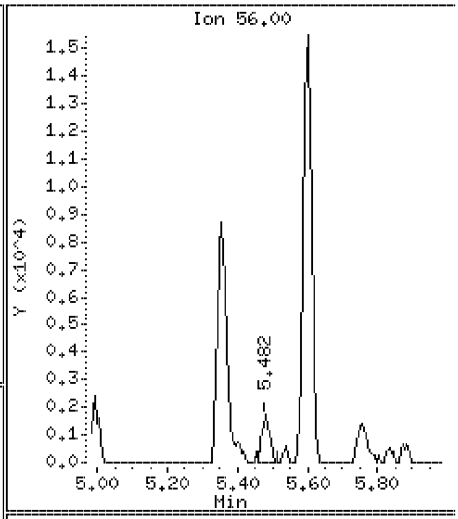
Column phase: J&W DB-5

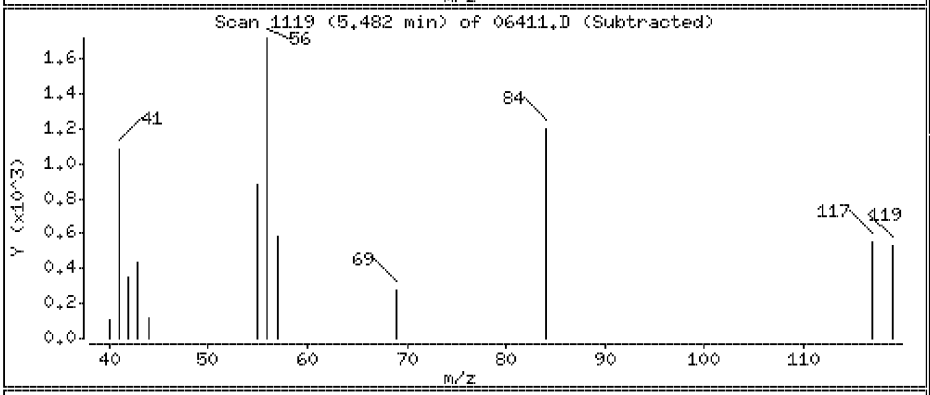
Column diameter: 0.32

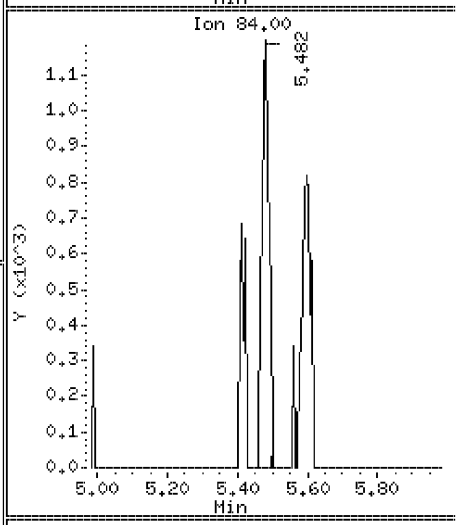
45 Cyclohexane

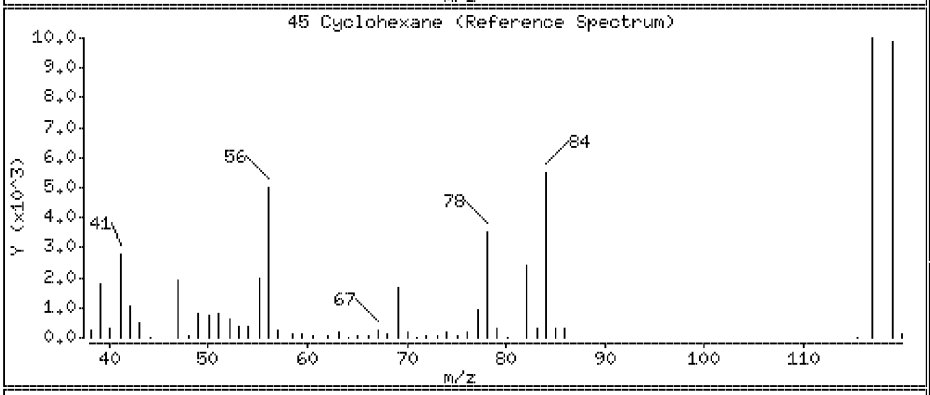
Concentration: 0.235 ppbv

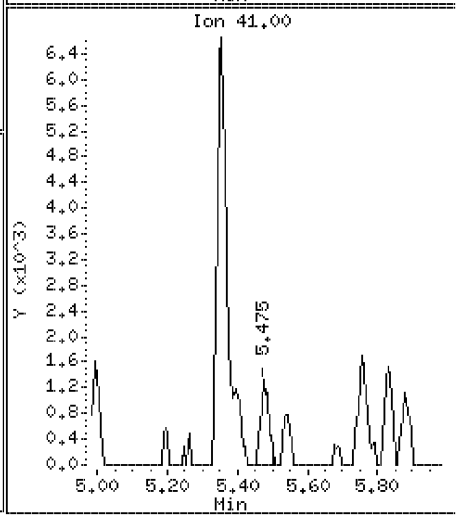


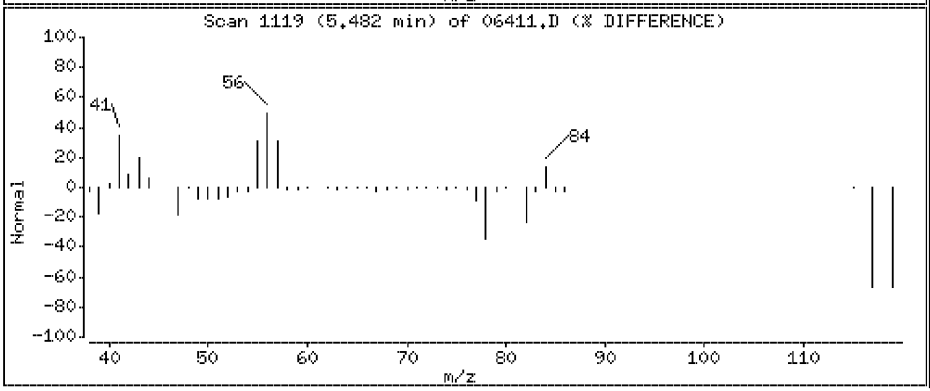












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

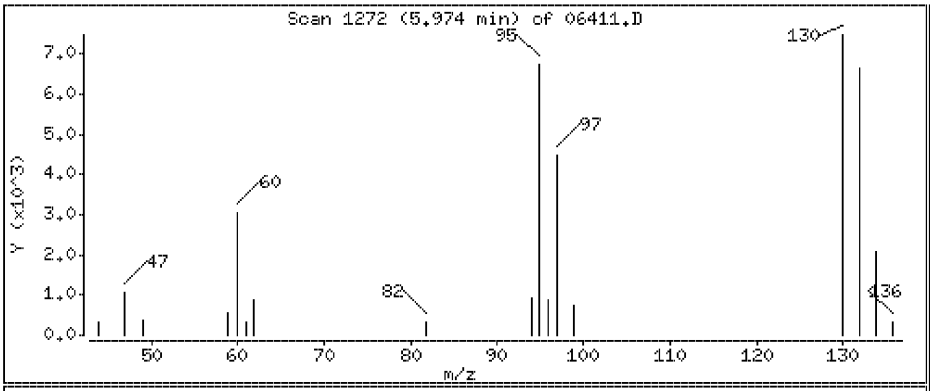
Operator: NCK

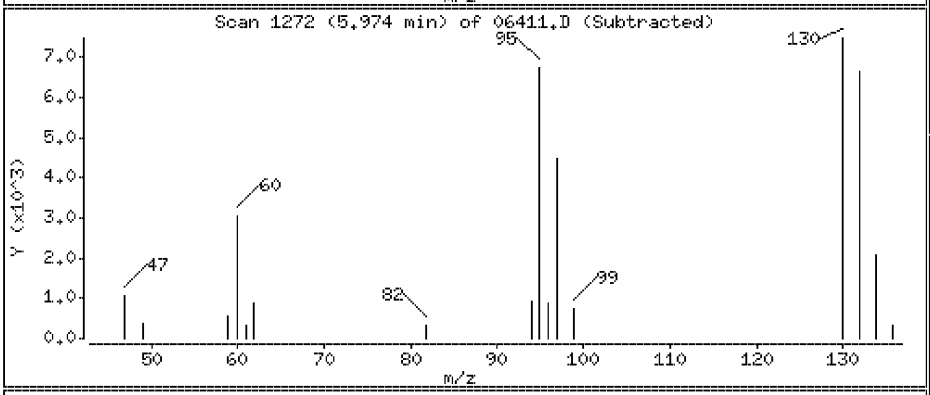
Column phase: J&W DB-5

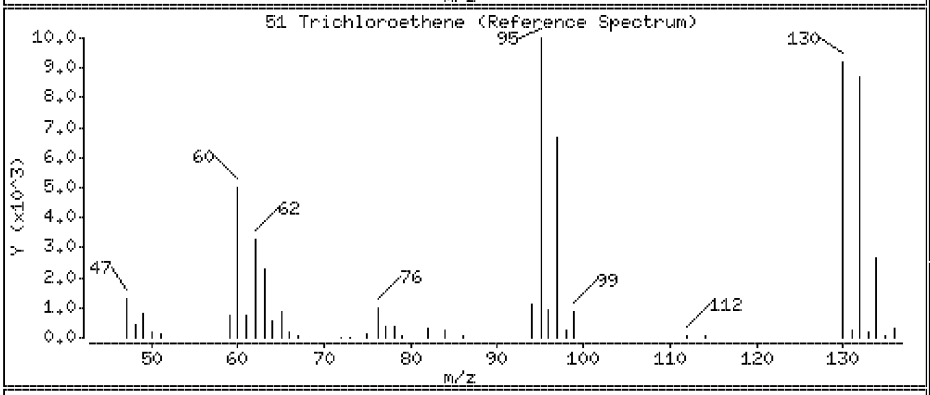
Column diameter: 0.32

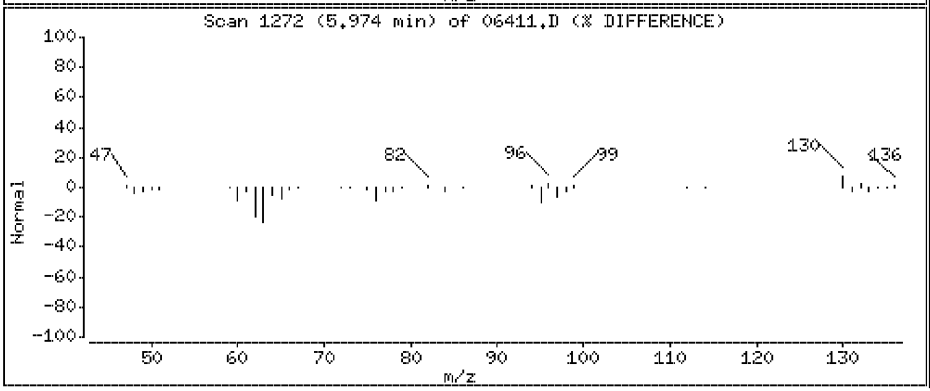
51 Trichloroethene

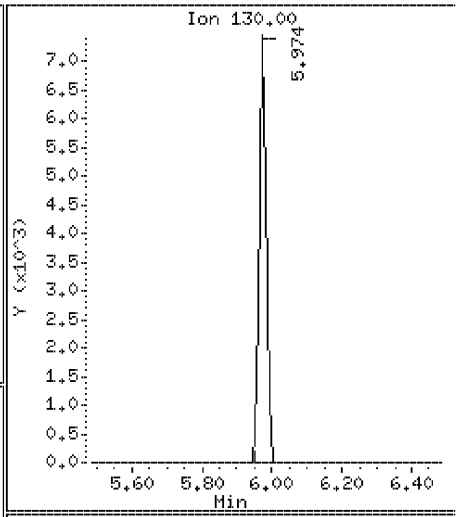
Concentration: 0.907 ppbv

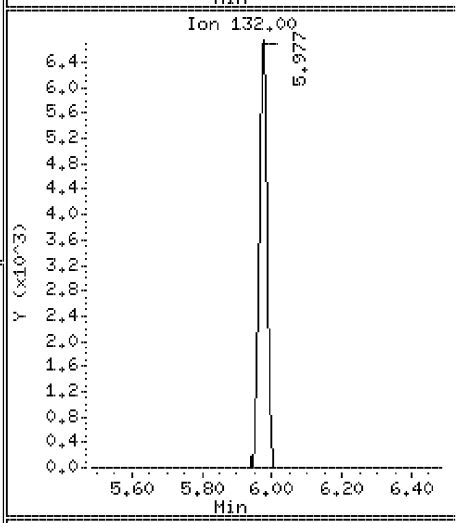


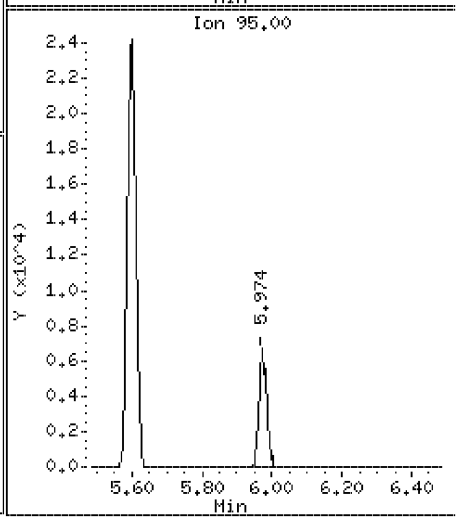












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

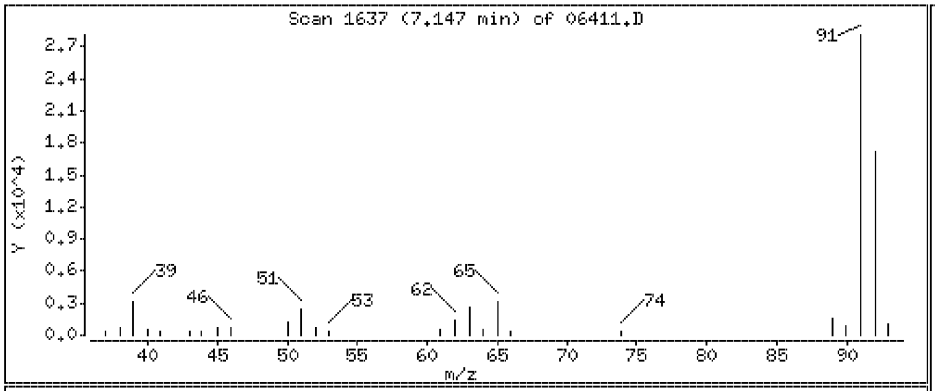
Operator: NCK

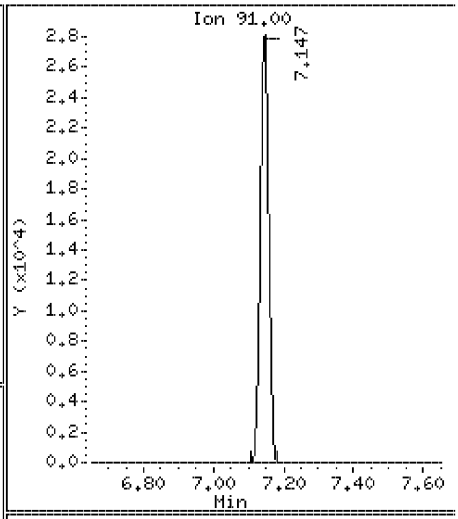
Column phase: J&W DB-5

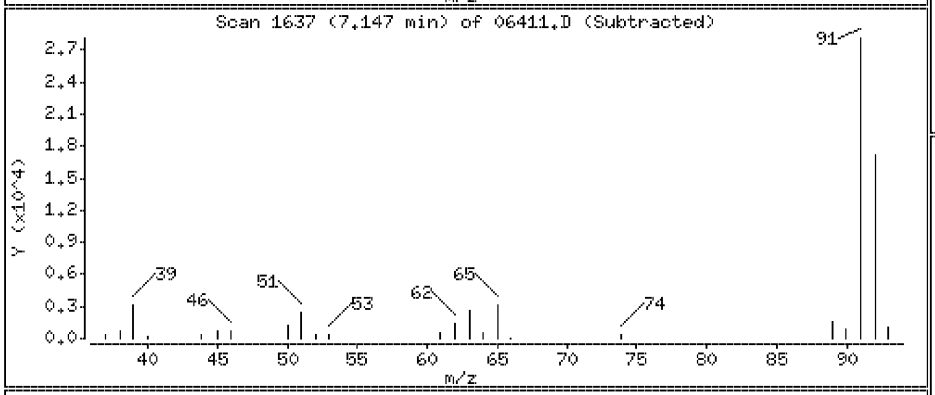
Column diameter: 0.32

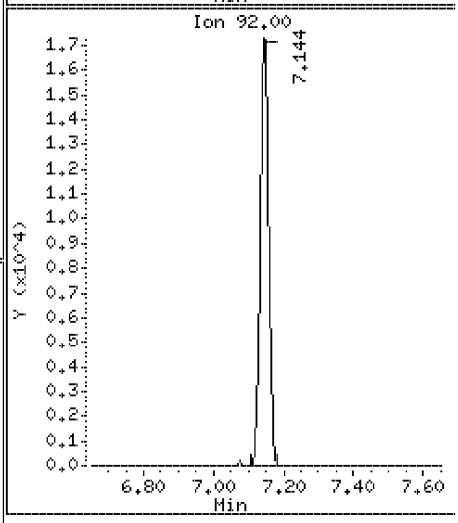
61 Toluene

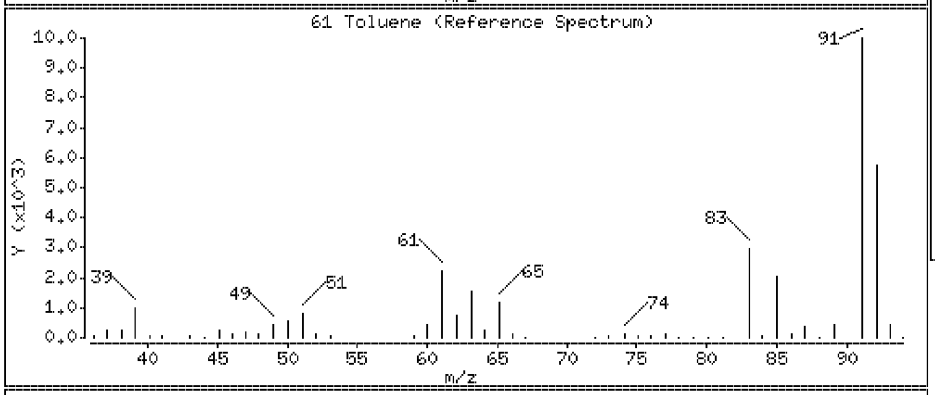
Concentration: 1.69 ppbv

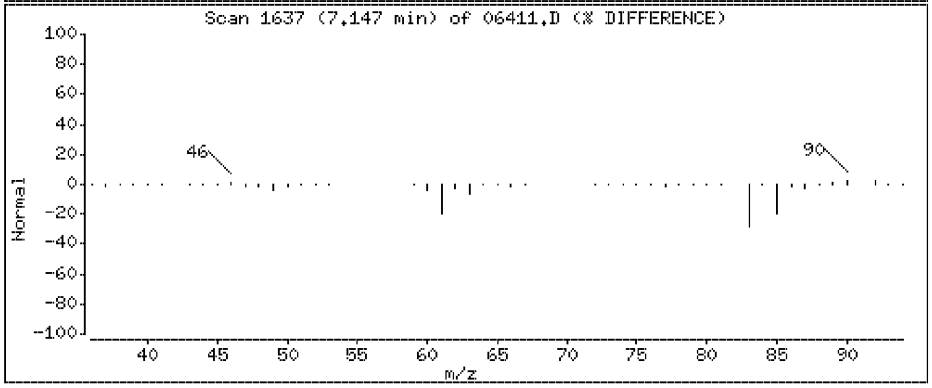












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

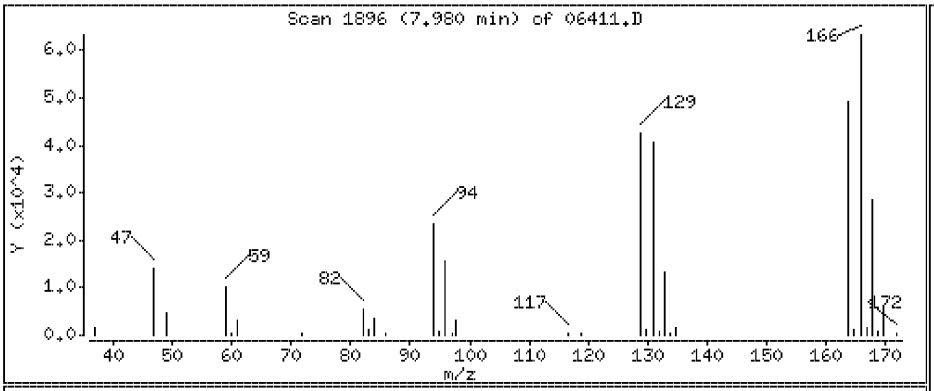
Operator: NCK

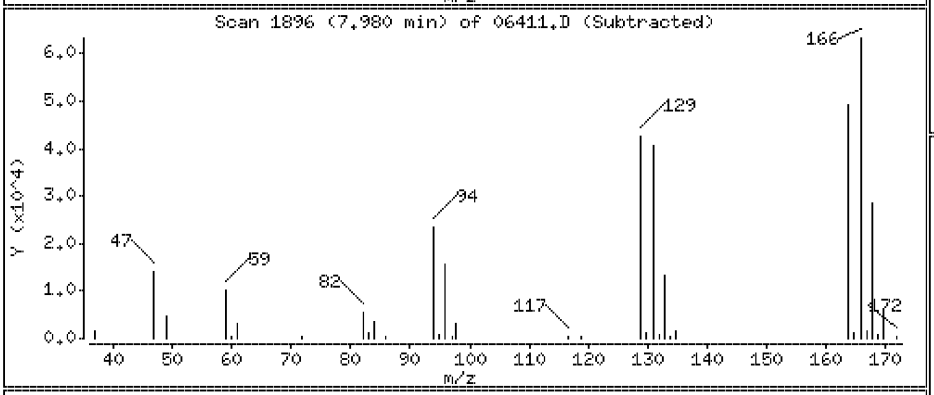
Column phase: J&W DB-5

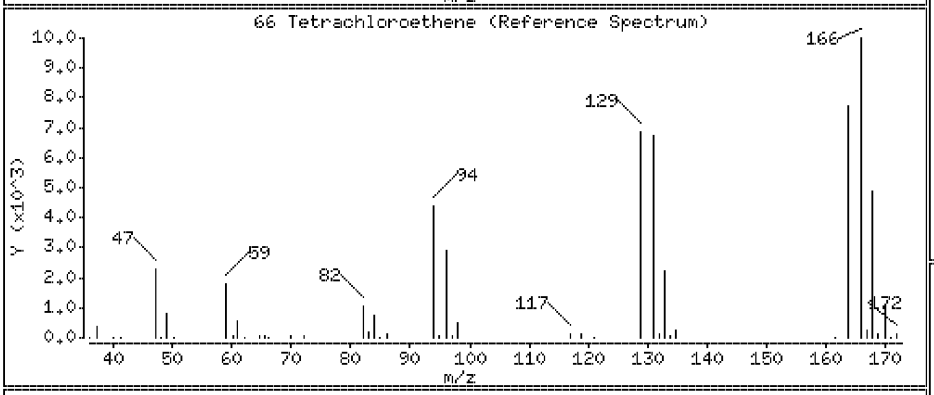
Column diameter: 0.32

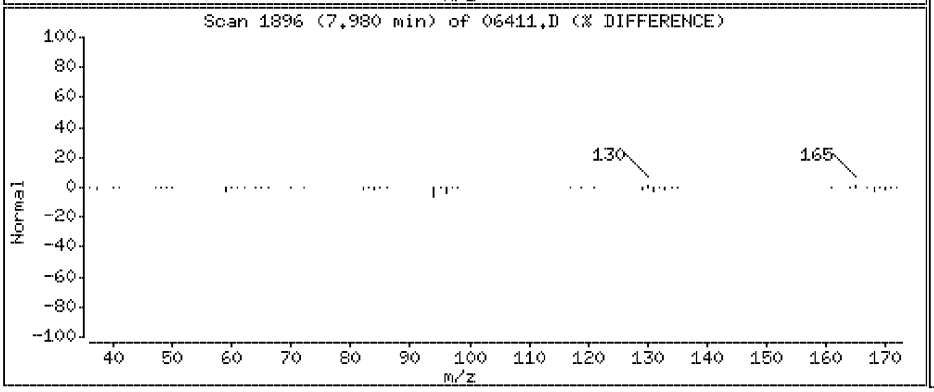
66 Tetrachloroethene

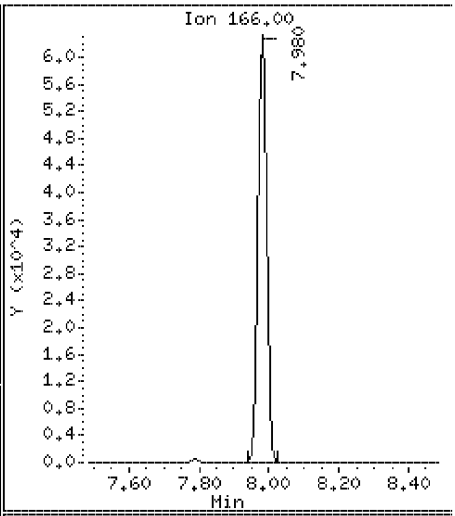
Concentration: 7.15 ppbv

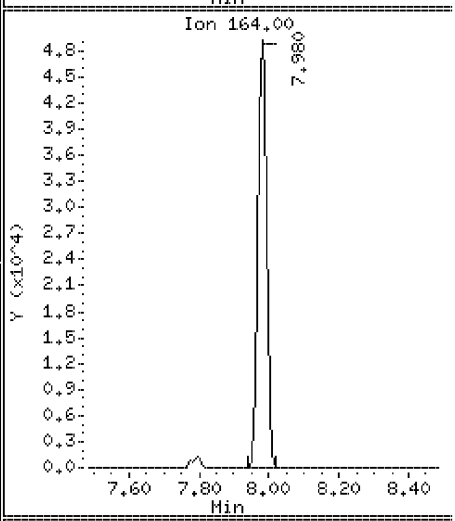


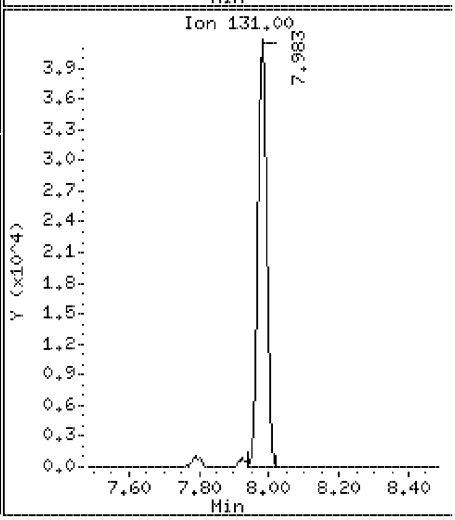












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

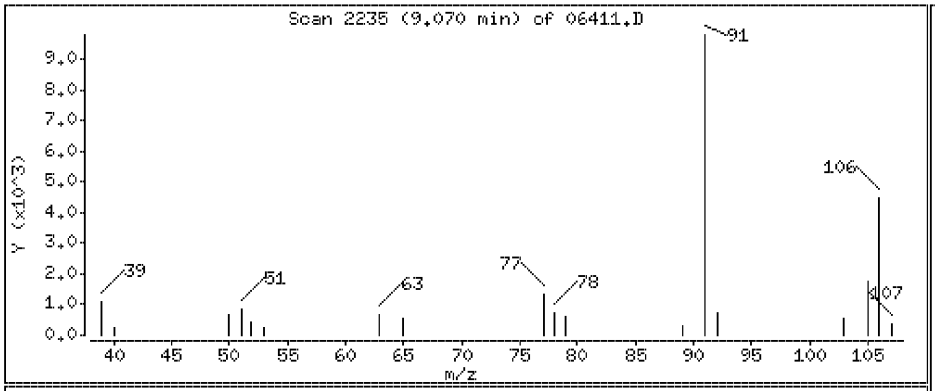
Operator: NCK

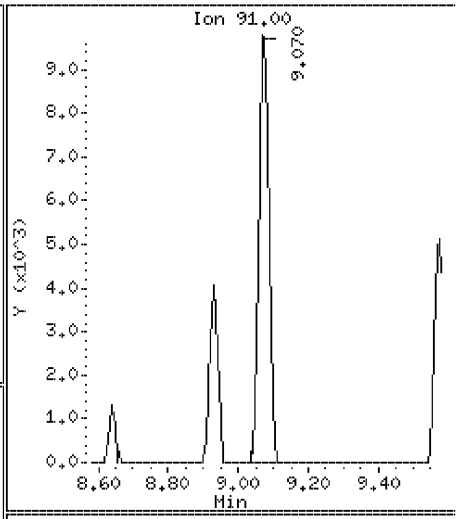
Column phase: J&W DB-5

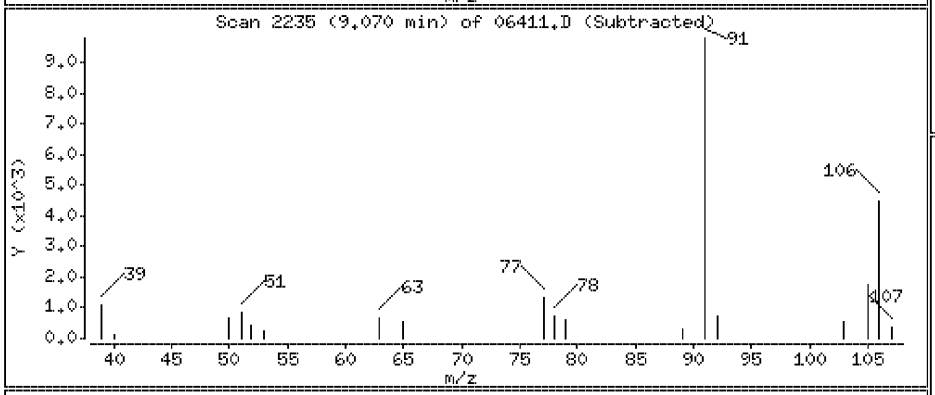
Column diameter: 0.32

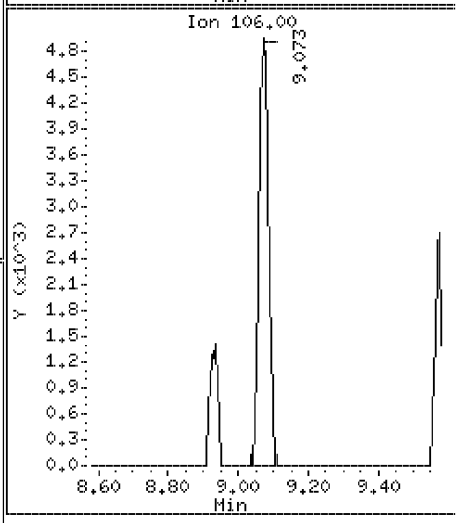
70 m&p-Xylene

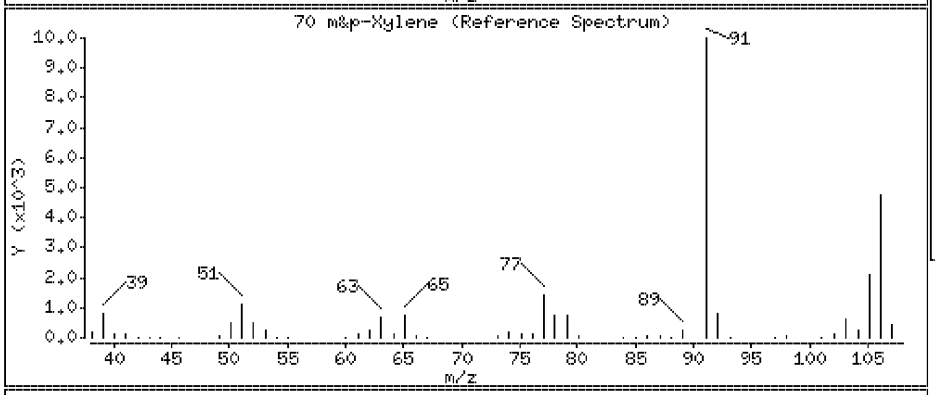
Concentration: 0.752 ppbv

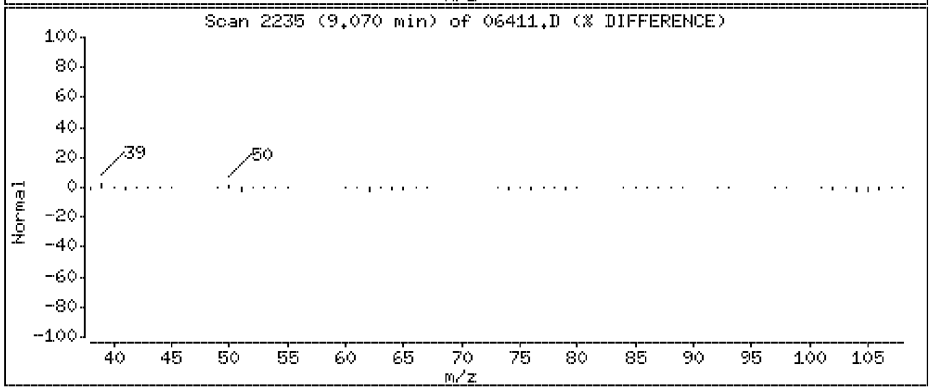












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

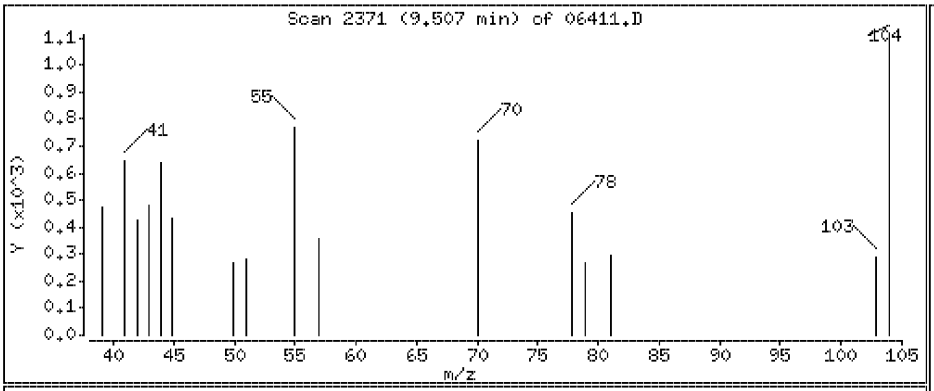
Operator: NCK

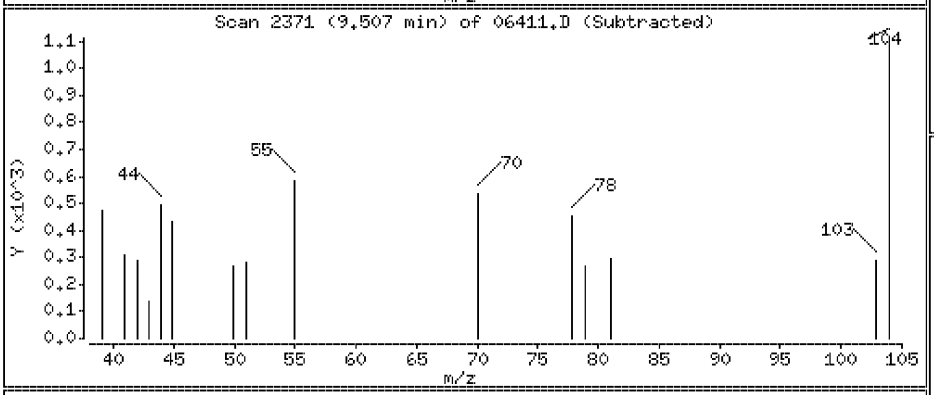
Column phase: J&W DB-5

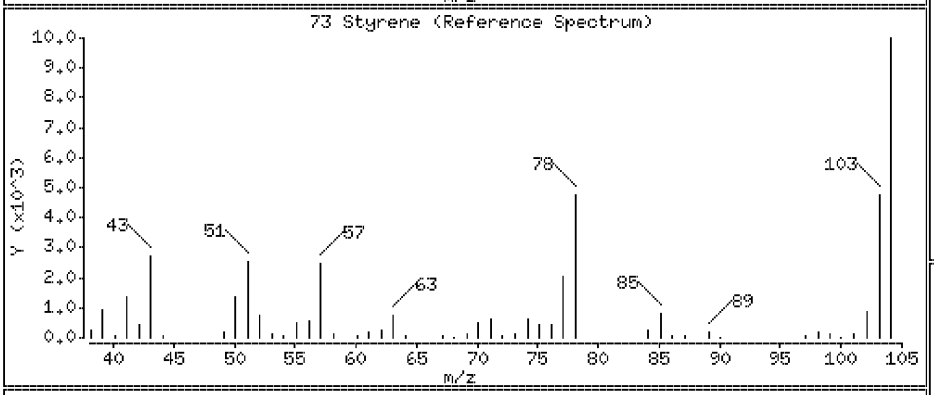
Column diameter: 0.32

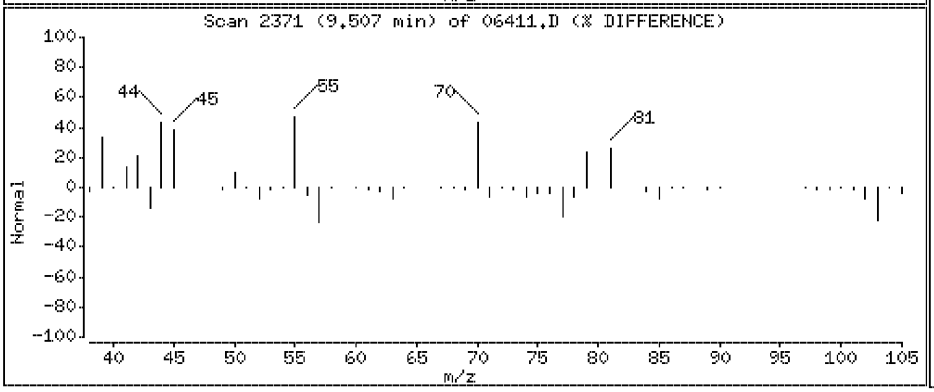
73 Styrene

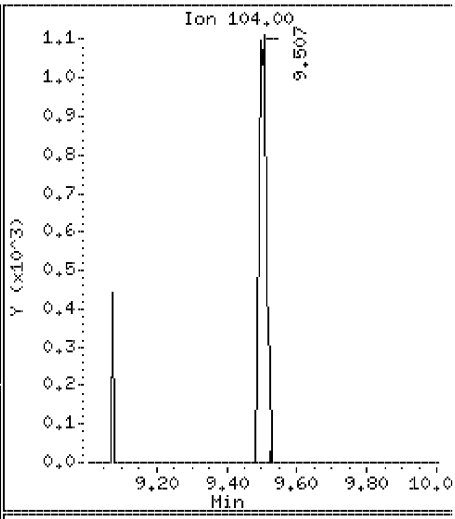
Concentration: 0.236 ppbv

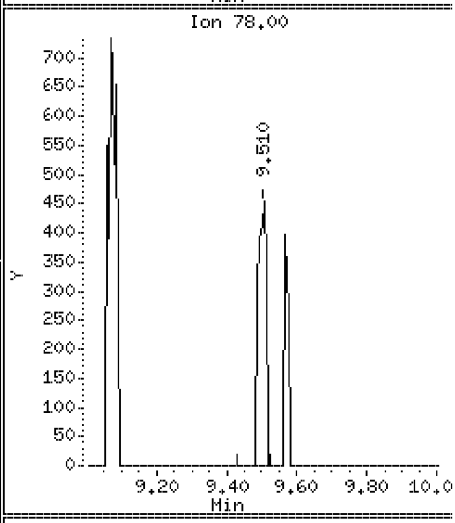


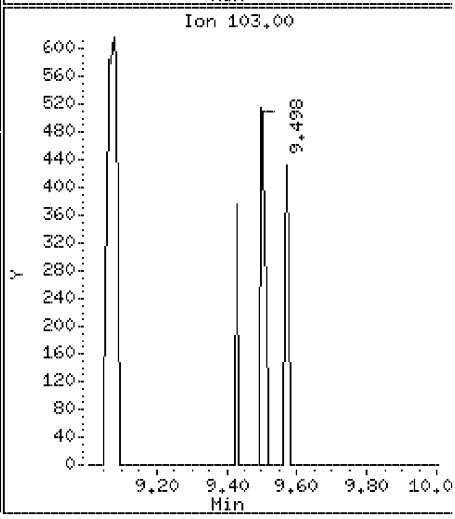












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

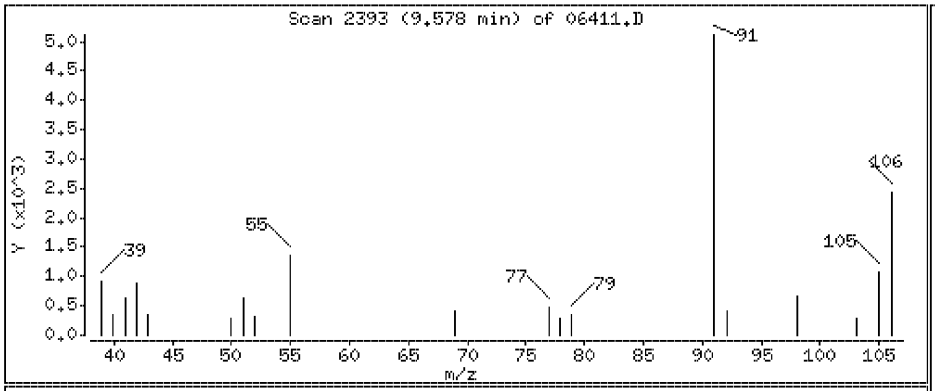
Operator: NCK

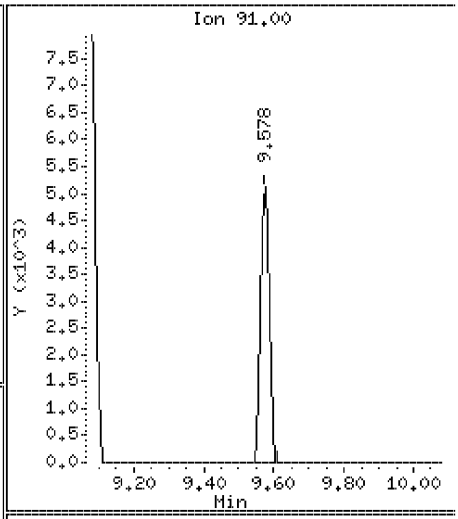
Column phase: J&W DB-5

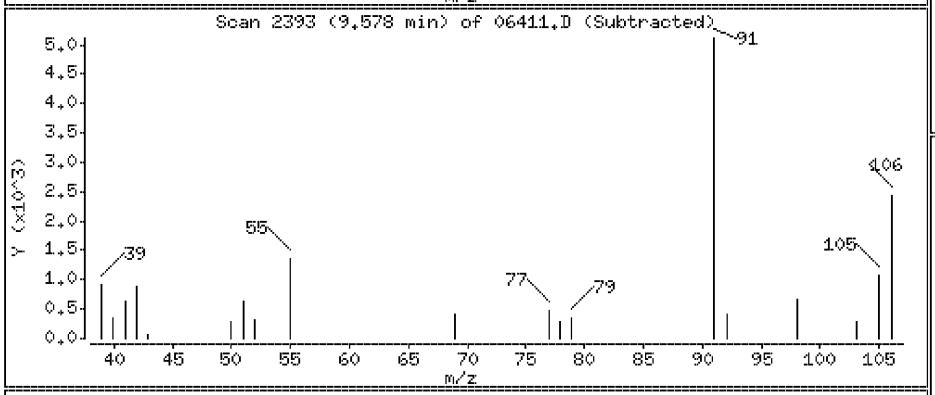
Column diameter: 0.32

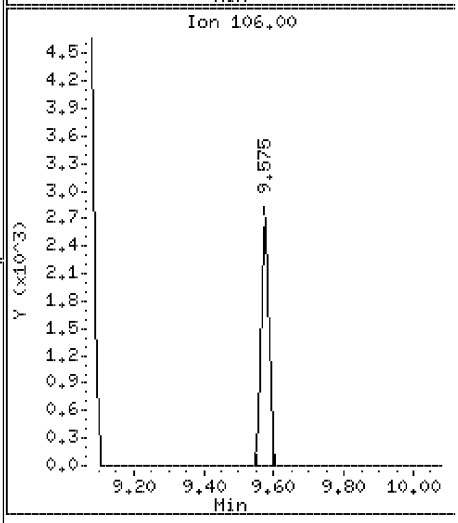
74 o-Xylene

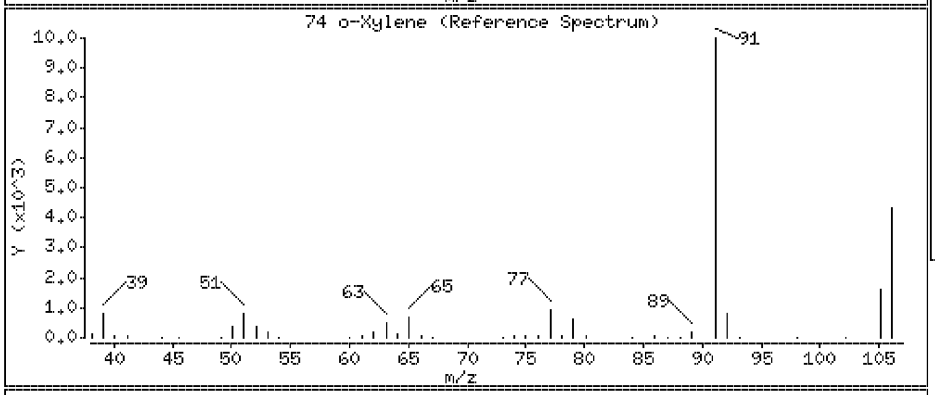
Concentration: 0.340 ppbv

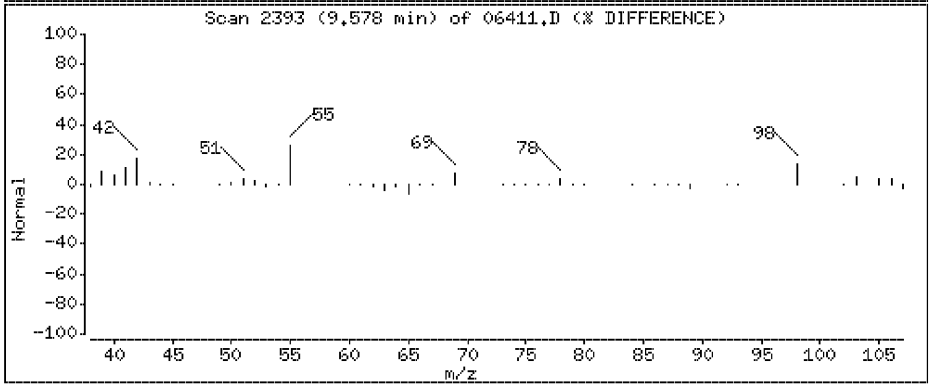












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

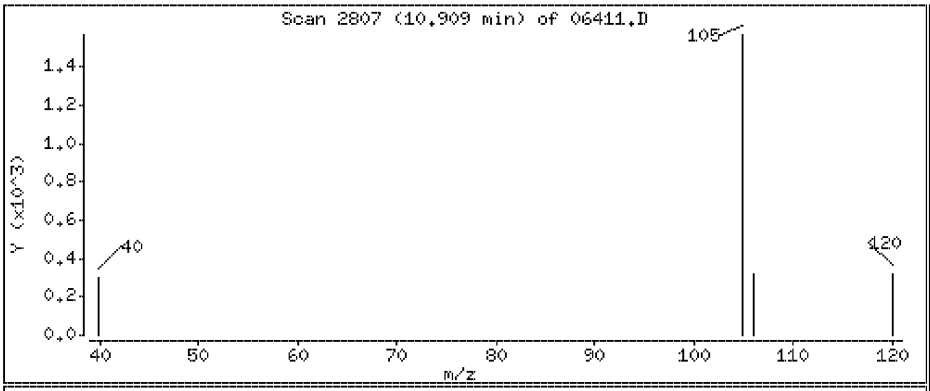
Operator: NCK

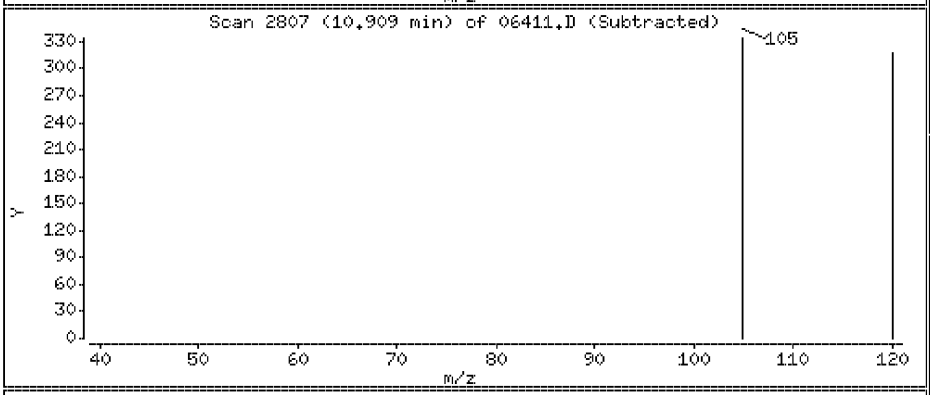
Column phase: J&W DB-5

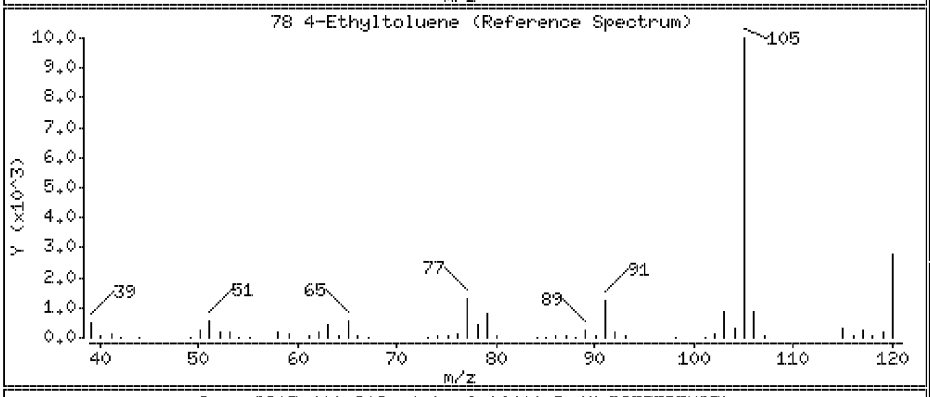
Column diameter: 0.32

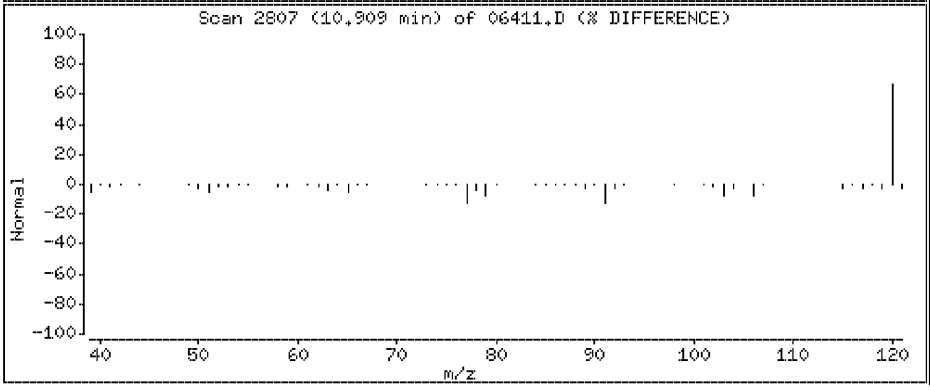
78 4-Ethyltoluene

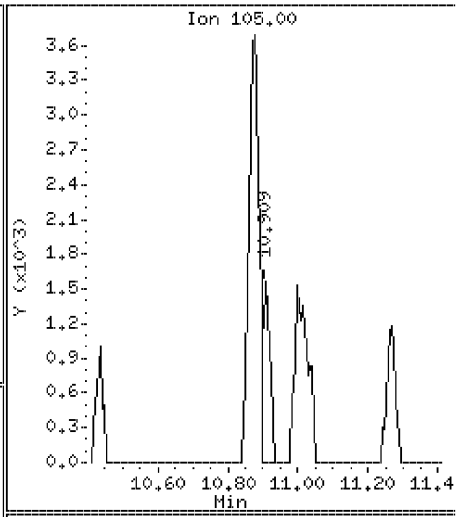
Concentration: 0.267 ppbv

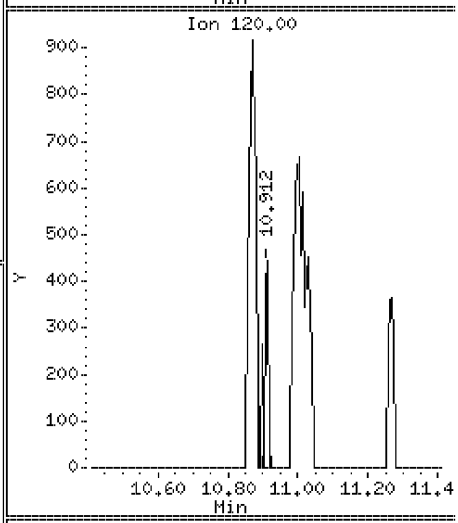


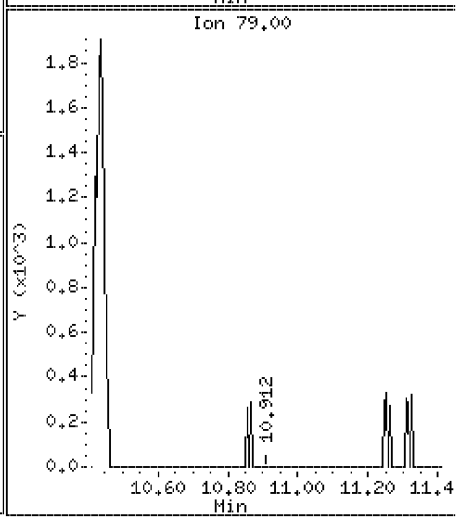












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

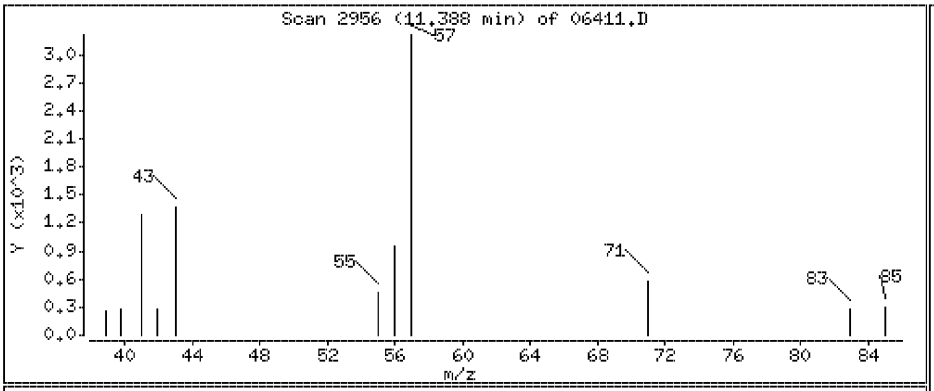
Operator: NCK

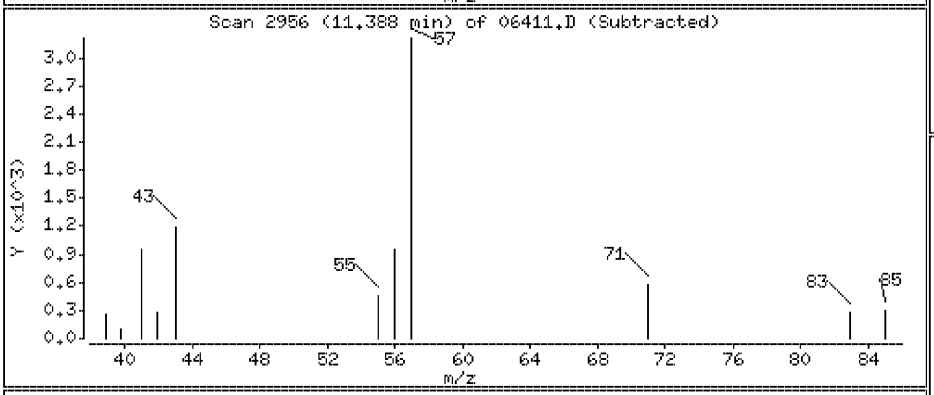
Column phase: J&W DB-5

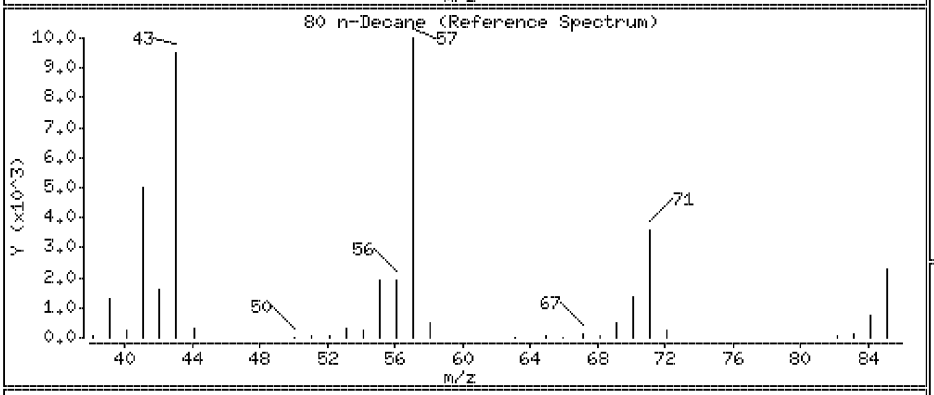
Column diameter: 0.32

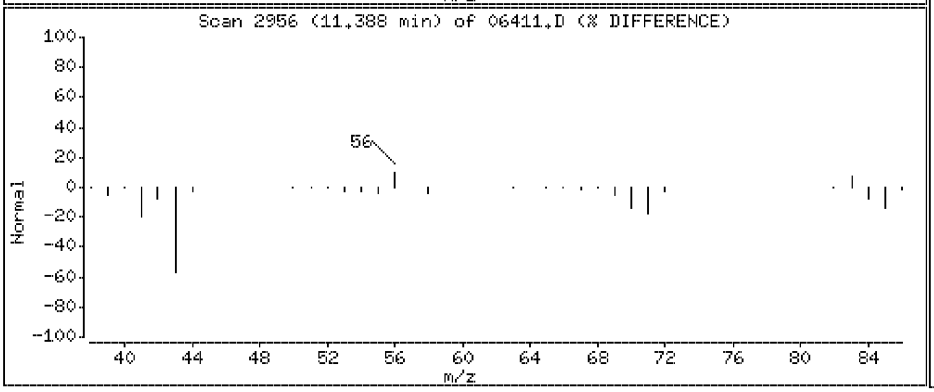
80 n-Decane

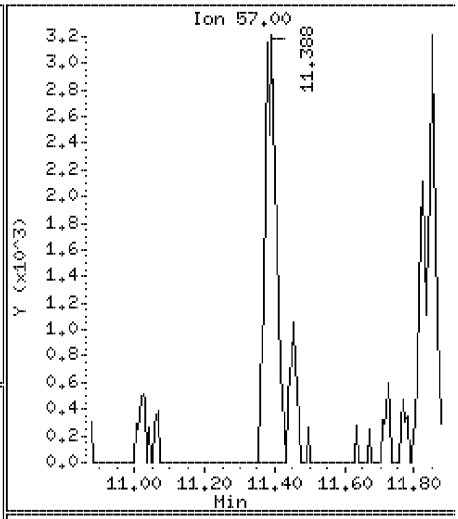
Concentration: 0.910 ppbv

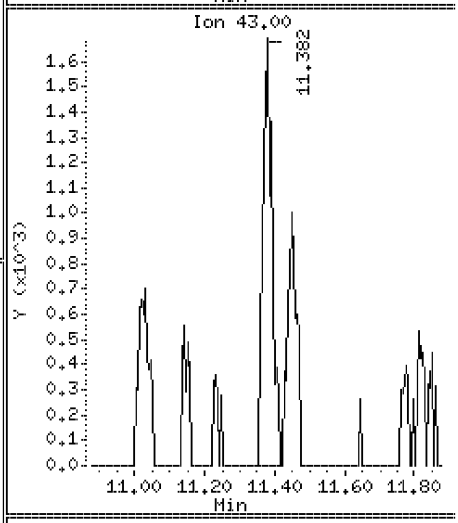


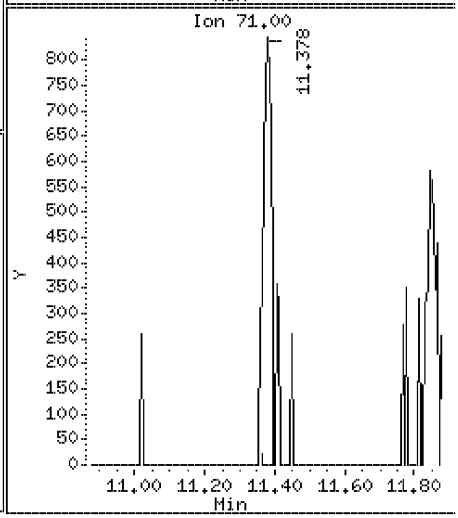












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

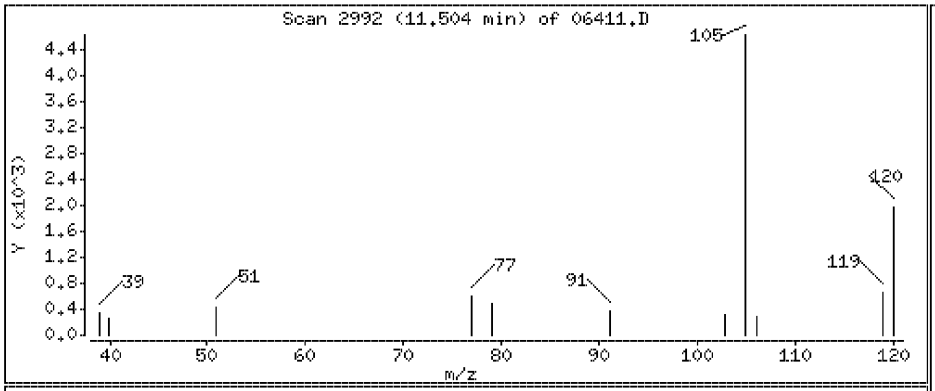
Operator: NCK

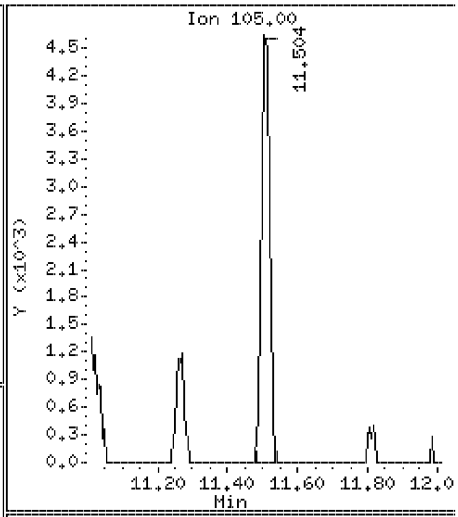
Column phase: J&W DB-5

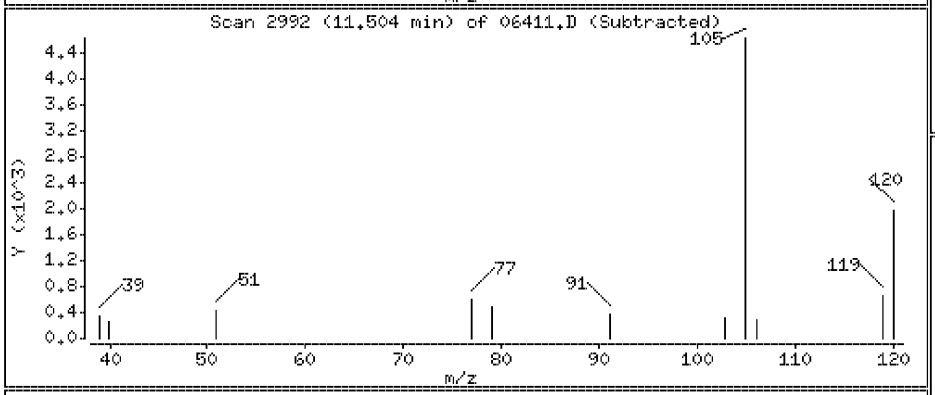
Column diameter: 0.32

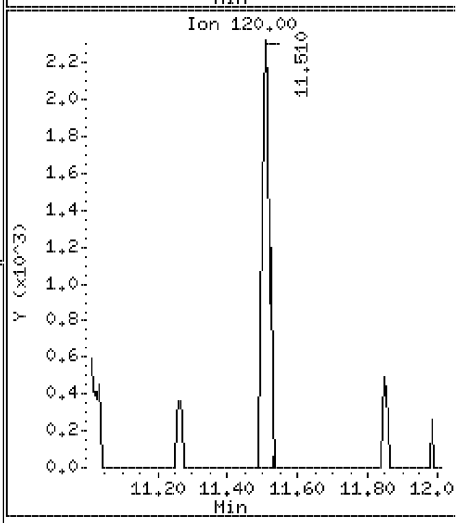
82 1,2,4-Trimethylbenzene

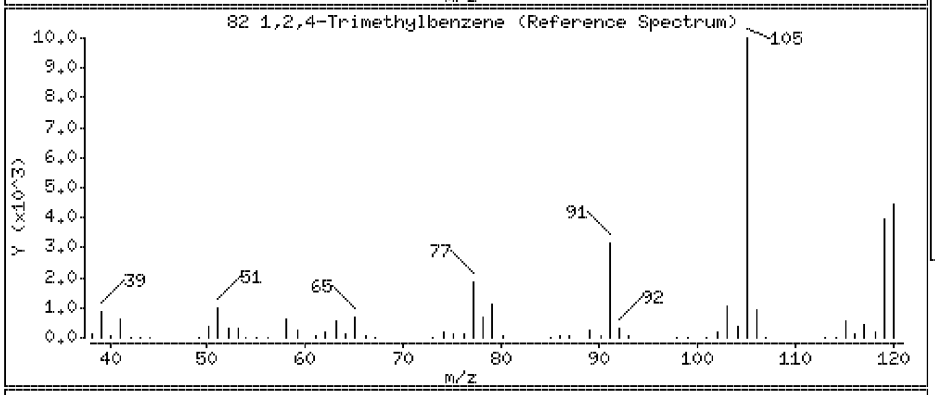
Concentration: 0.285 ppbv

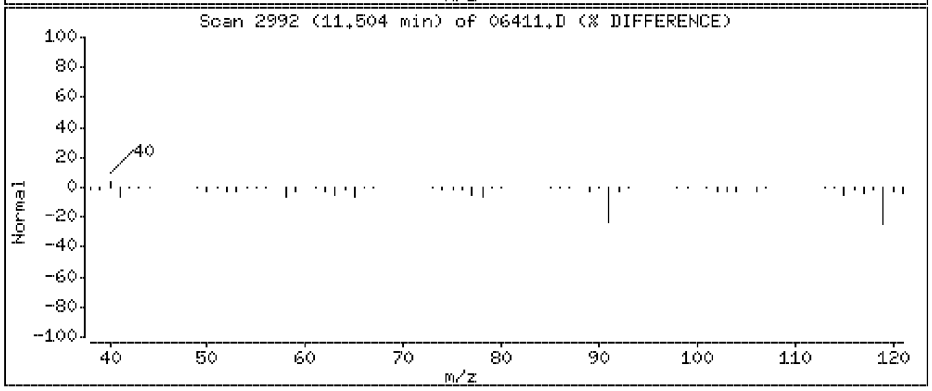












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06411.D

Date : 05-MAR-2017 14:14

Client ID:

Instrument: 10airB.i

Sample Info:

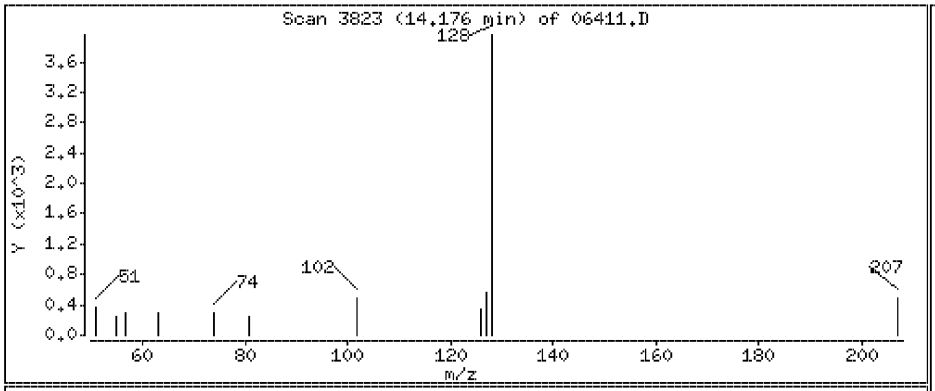
Operator: NCK

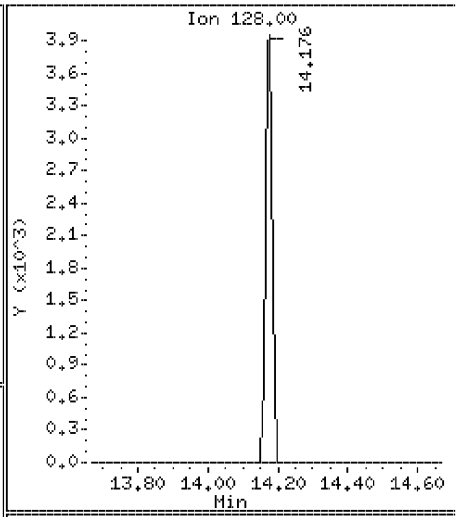
Column phase: J&W DB-5

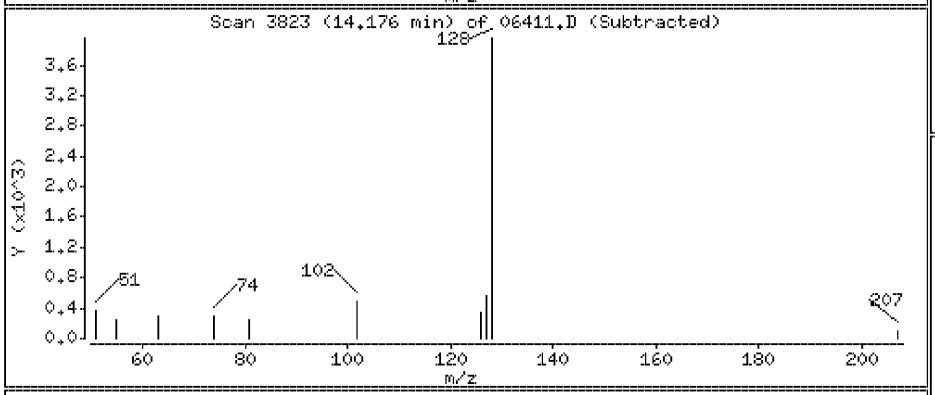
Column diameter: 0.32

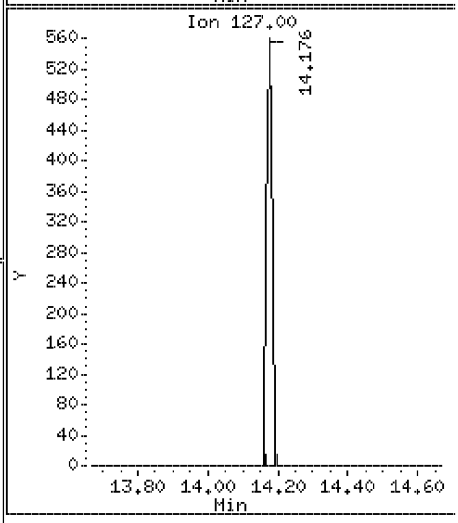
94 Naphthalene

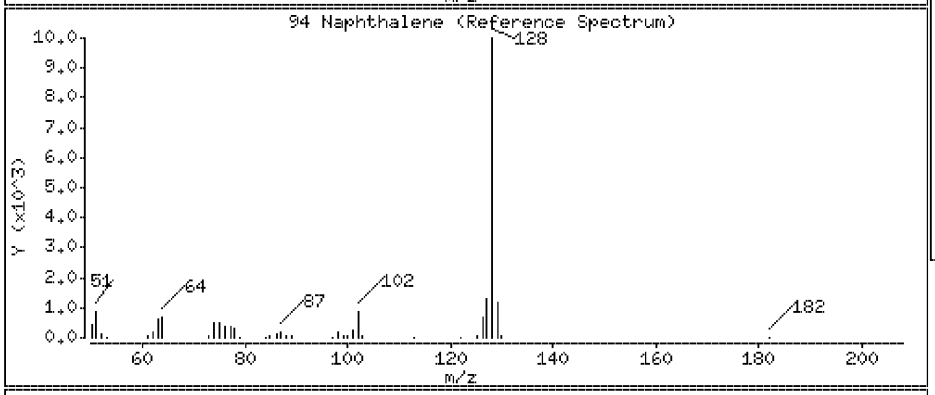
Concentration: 0.992 ppbv

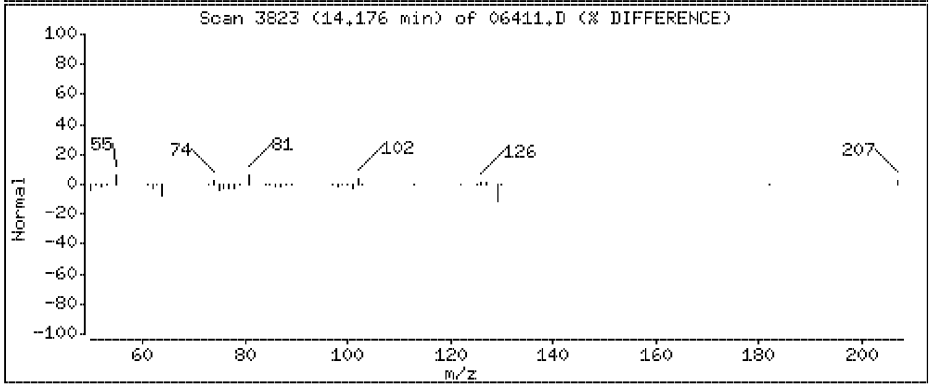






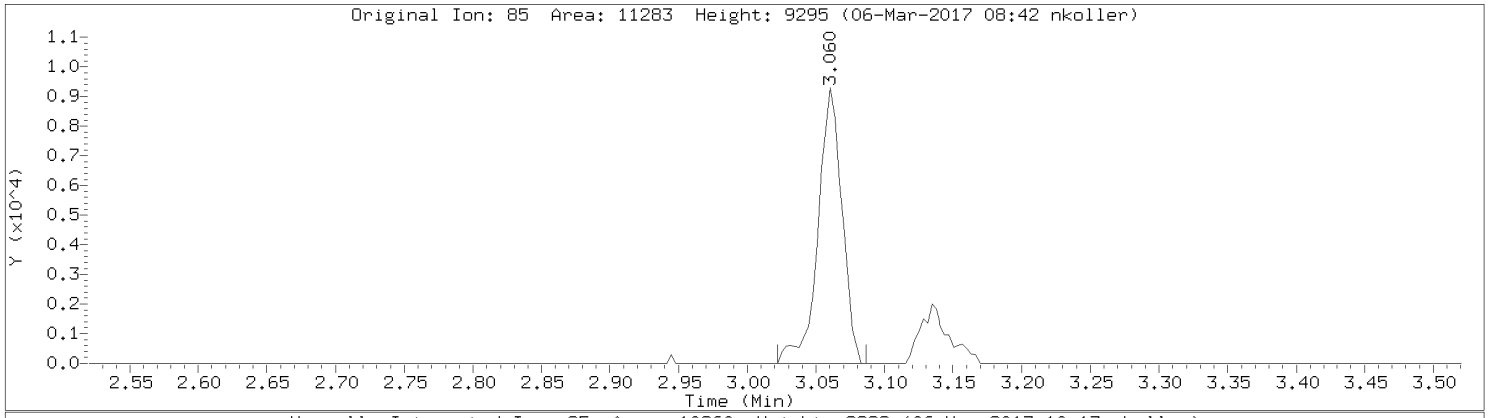


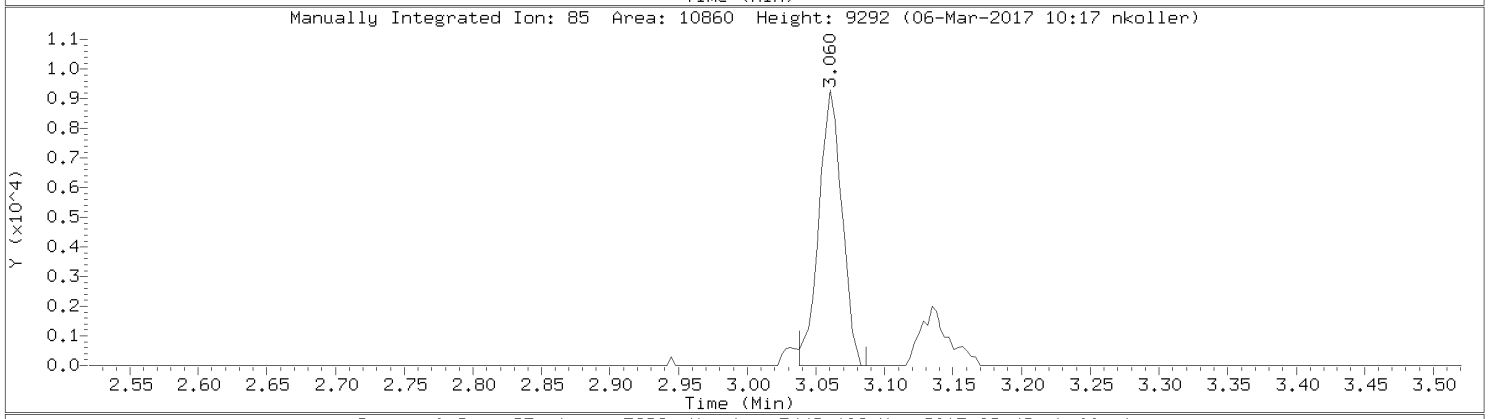


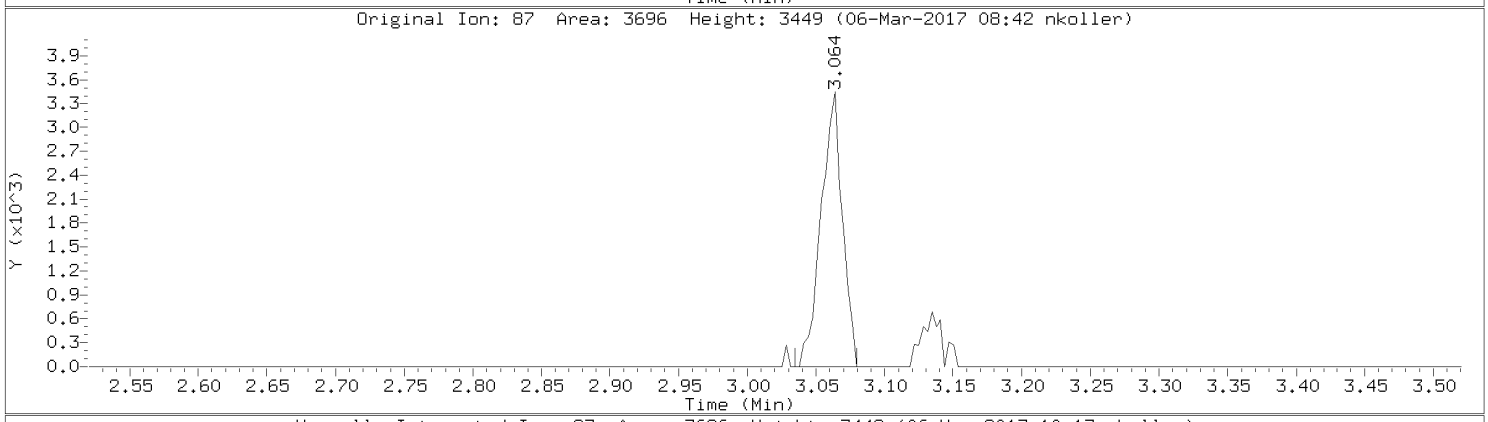


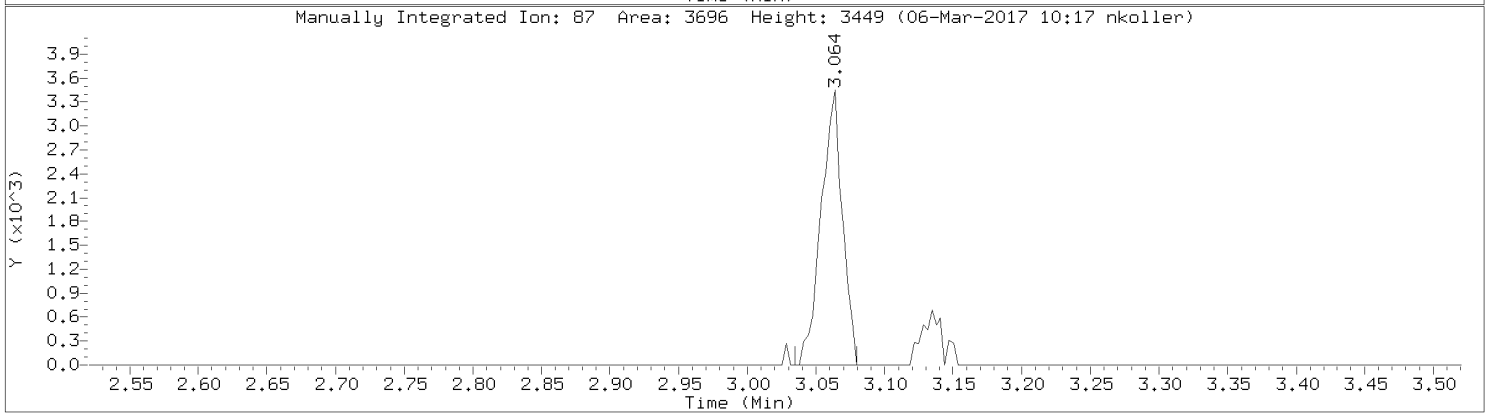
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06411.D
Injection Date: 05-MAR-2017 14:14
Instrument: 10airB.i
Lab Sample ID: 10379458011

Compound: Dichlorodifluoromethane
CAS Number: 79-34-5



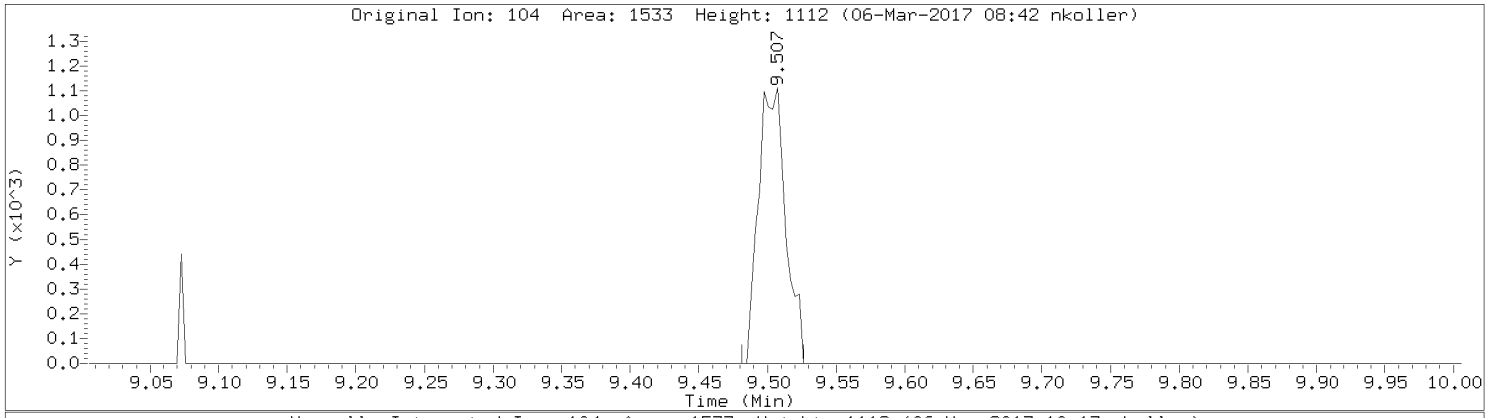


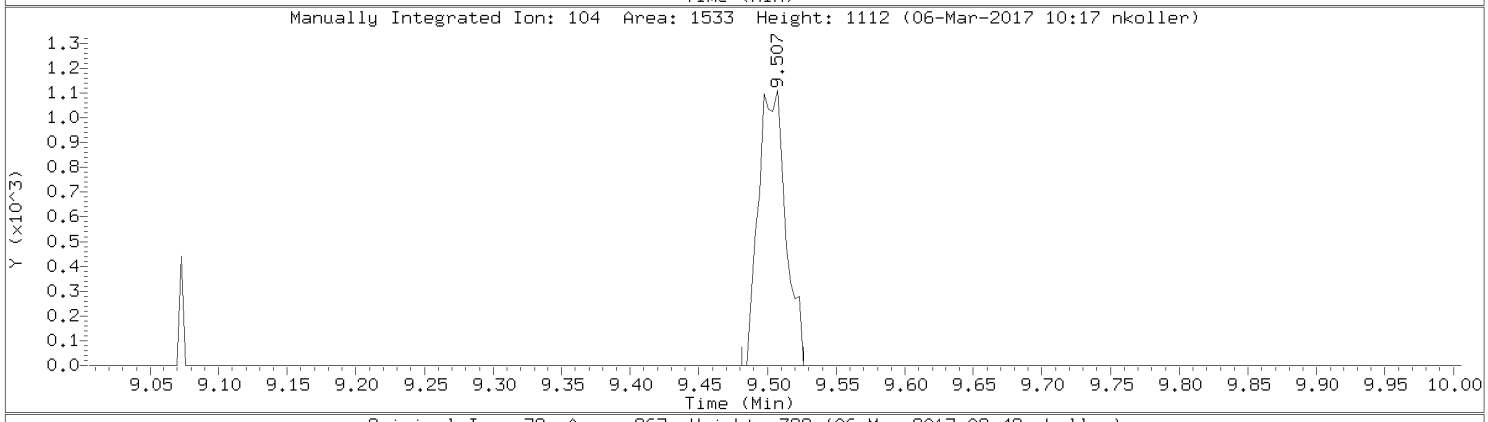


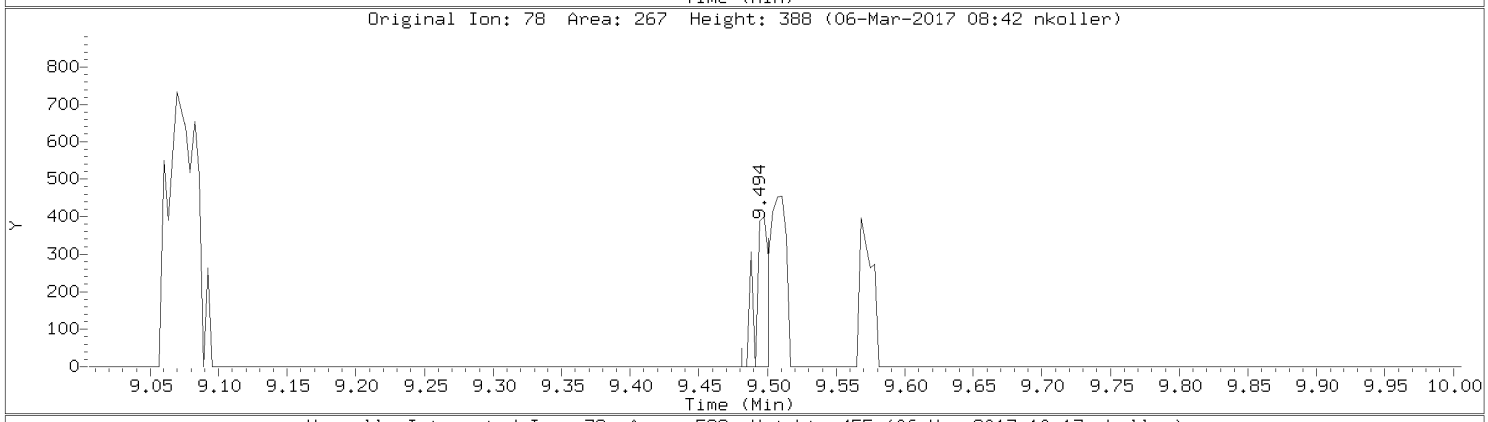


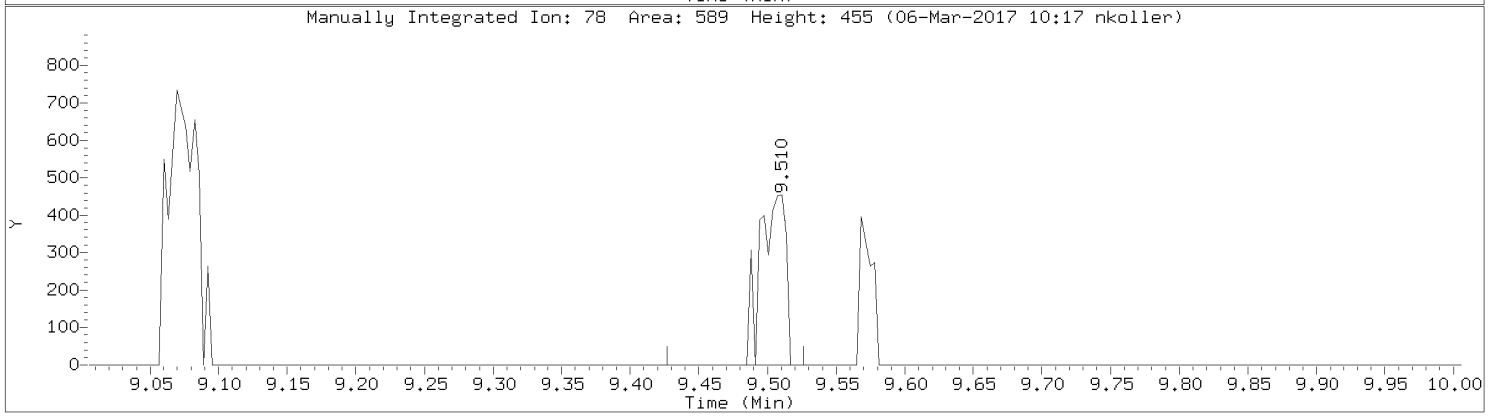
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06411.D
Injection Date: 05-MAR-2017 14:14
Instrument: 10airB.i
Lab Sample ID: 10379458011

Compound: Styrene
CAS Number: 100-42-5

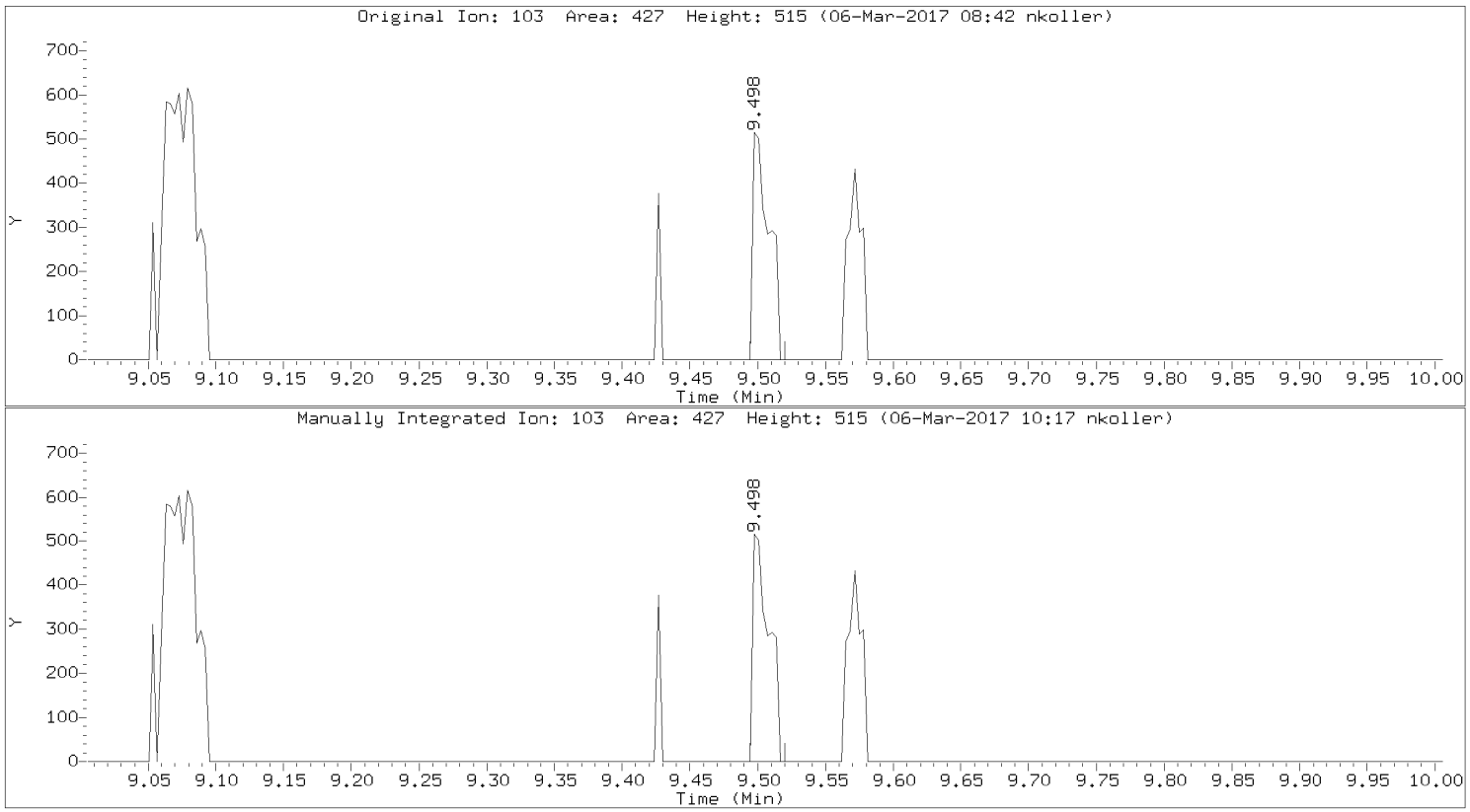






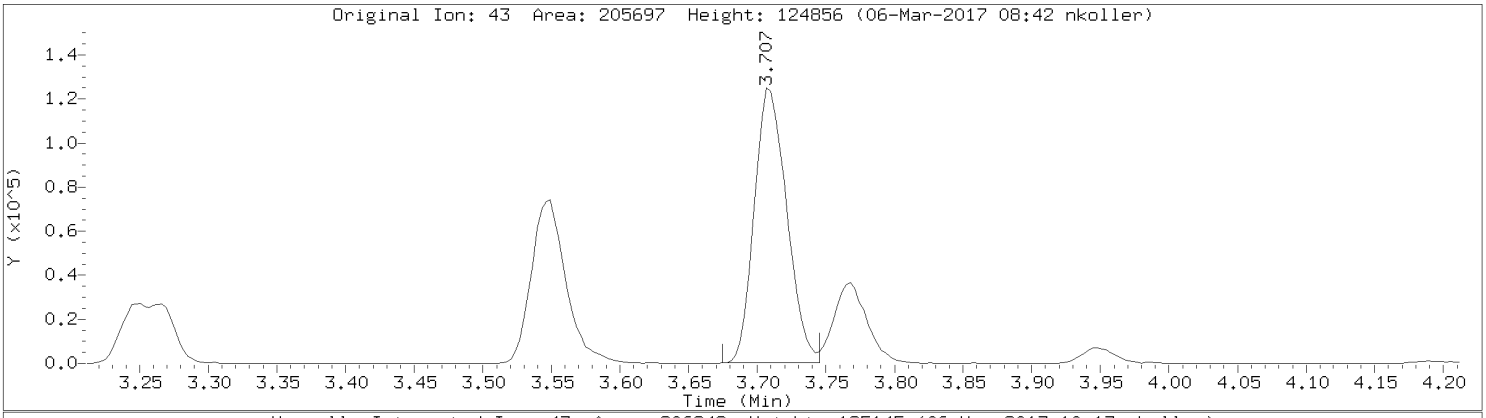


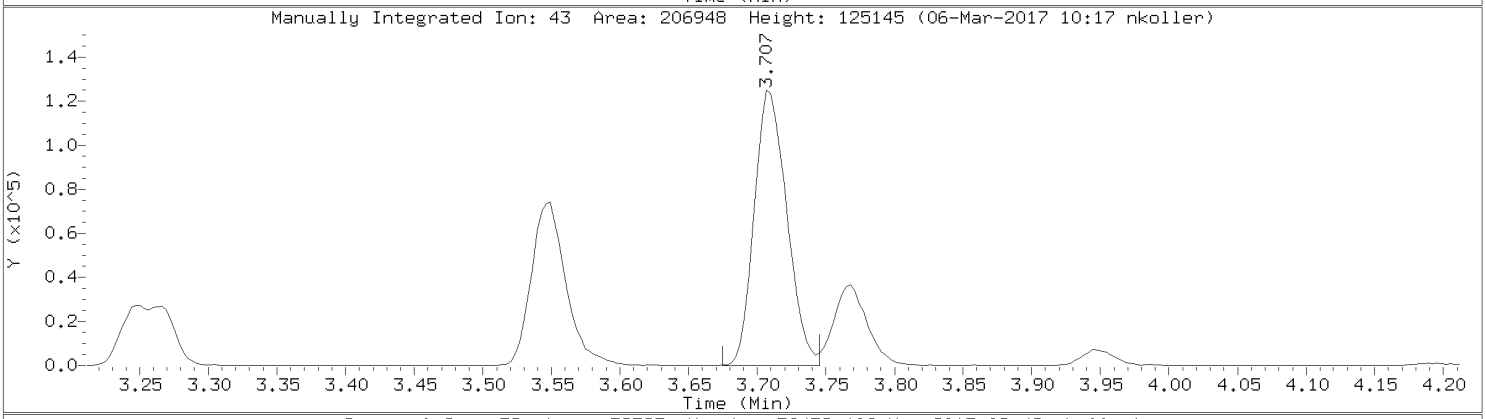
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06411.D
Injection Date: 05-MAR-2017 14:14
Instrument: 10airB.i
Lab Sample ID: 10379458011

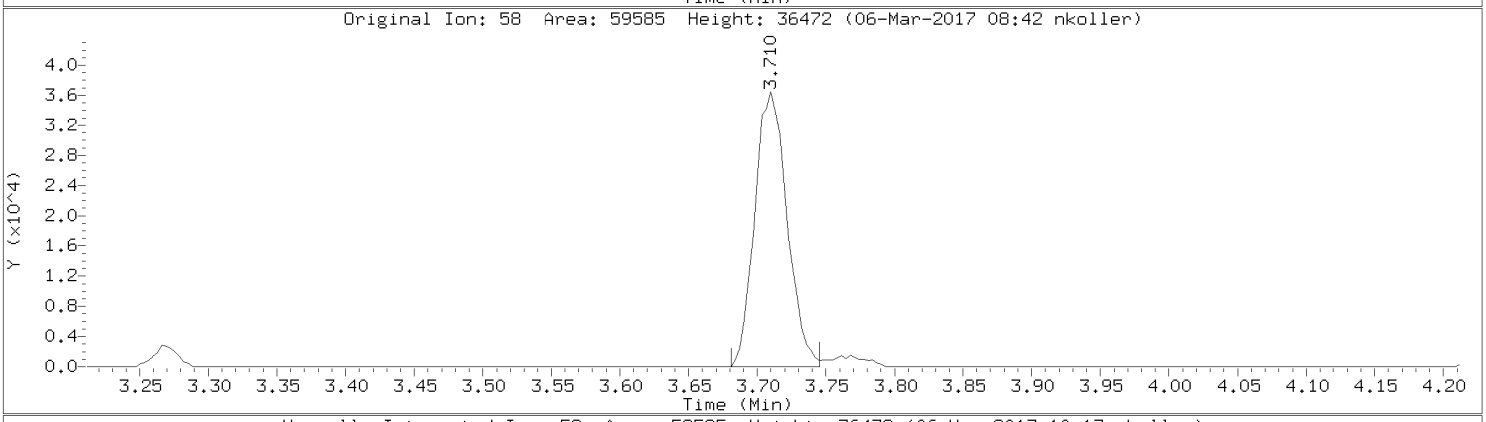


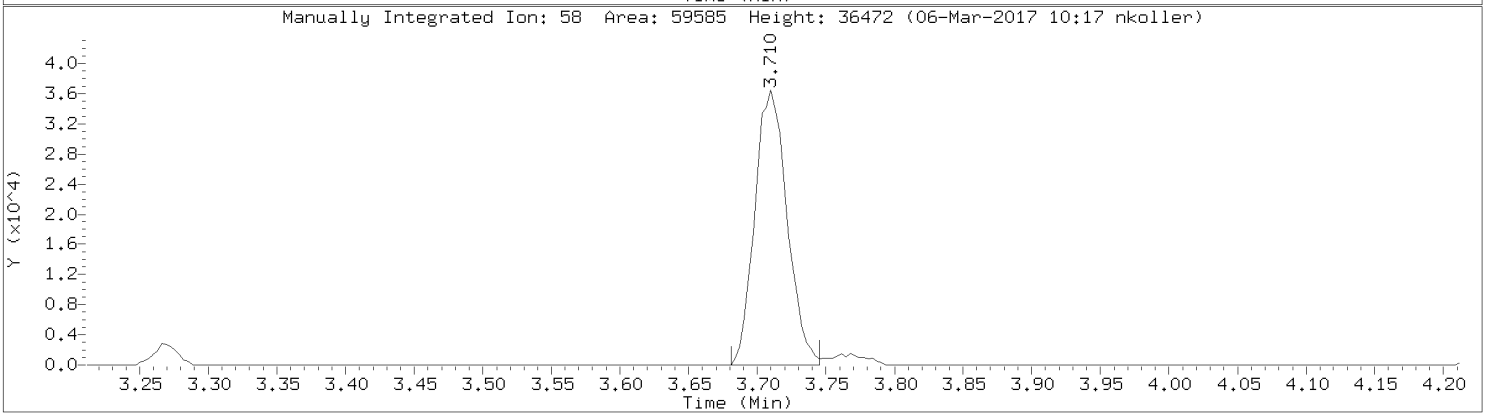
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06411.D
Injection Date: 05-MAR-2017 14:14
Instrument: 10airB.i
Lab Sample ID: 10379458011

Compound: Acetone
CAS Number: 67-64-1



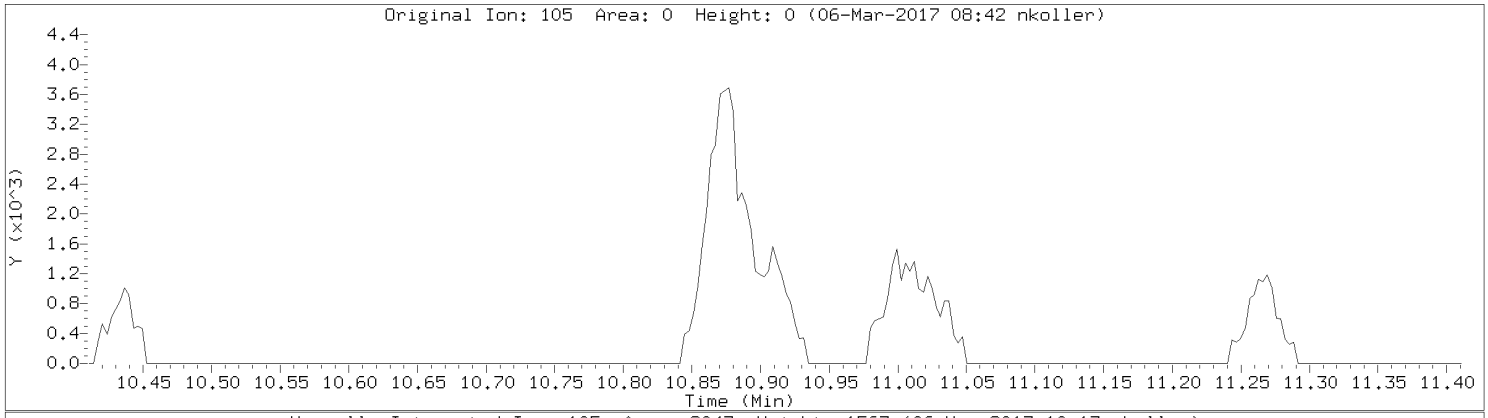


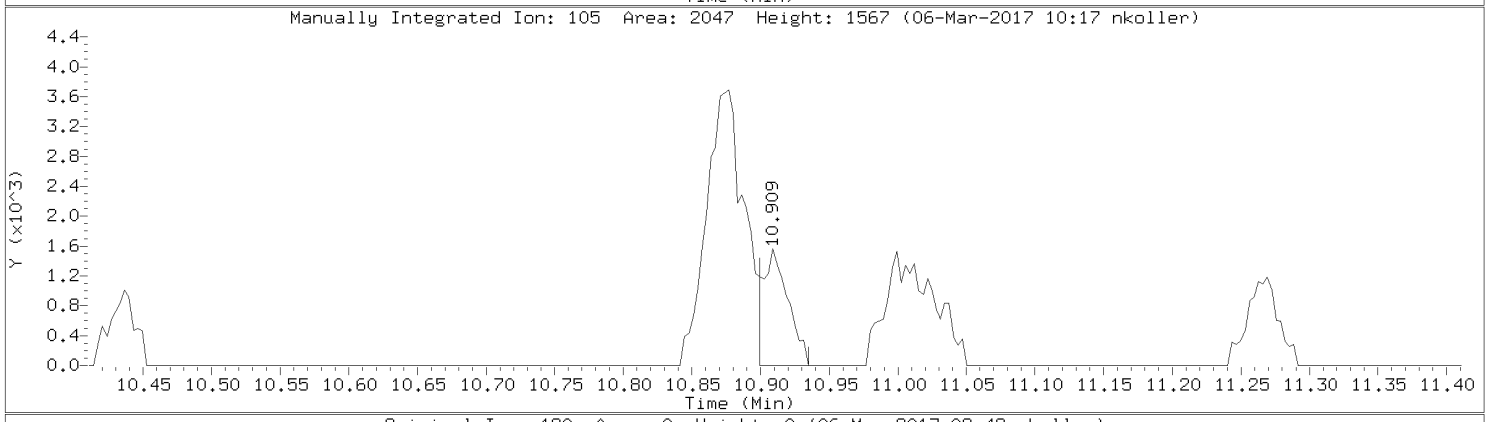


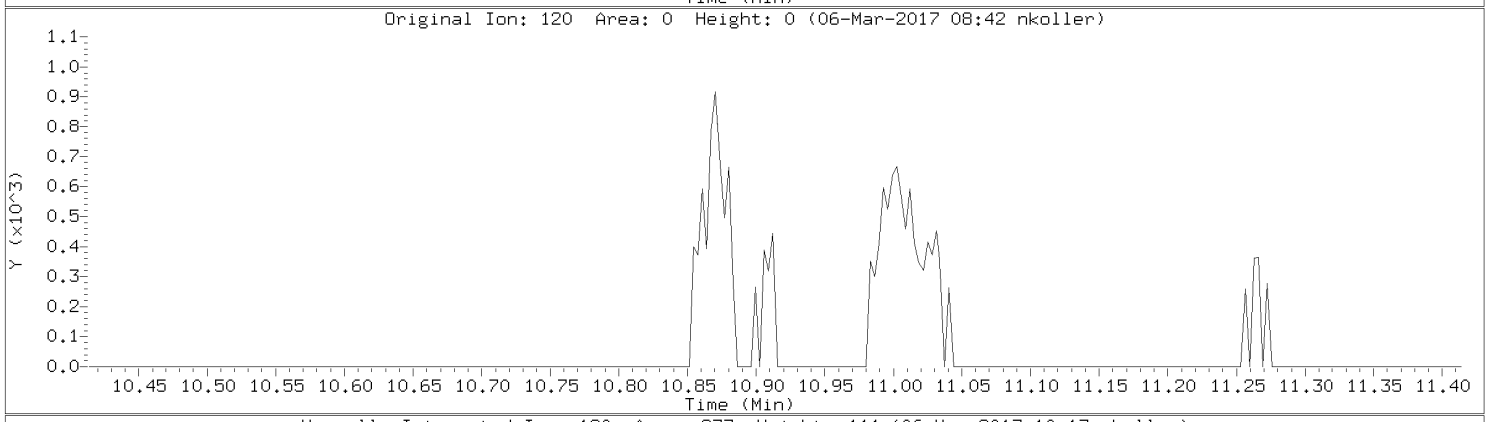


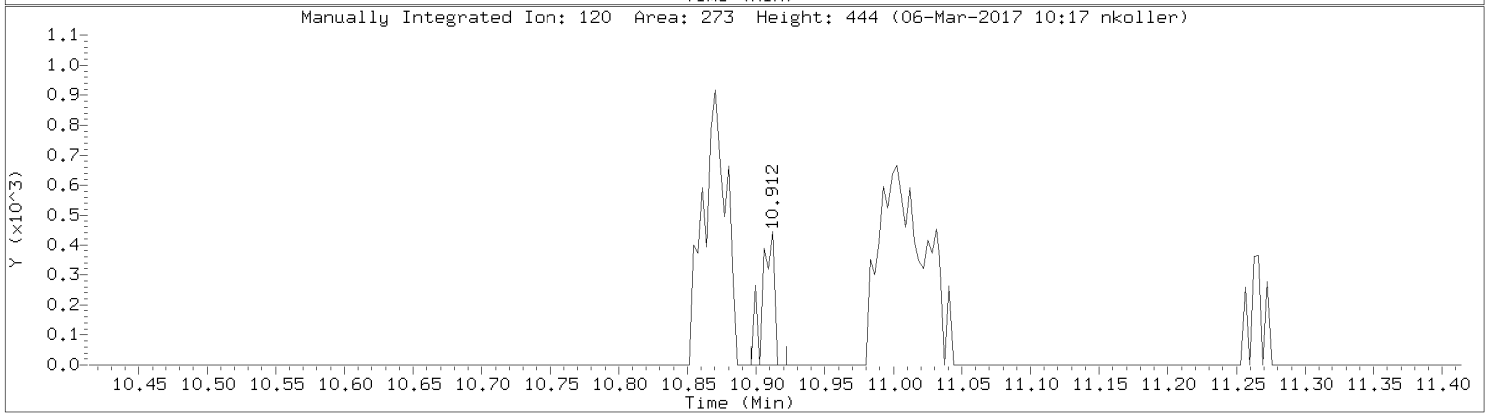
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06411.D
Injection Date: 05-MAR-2017 14:14
Instrument: 10airB.i
Lab Sample ID: 10379458011

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

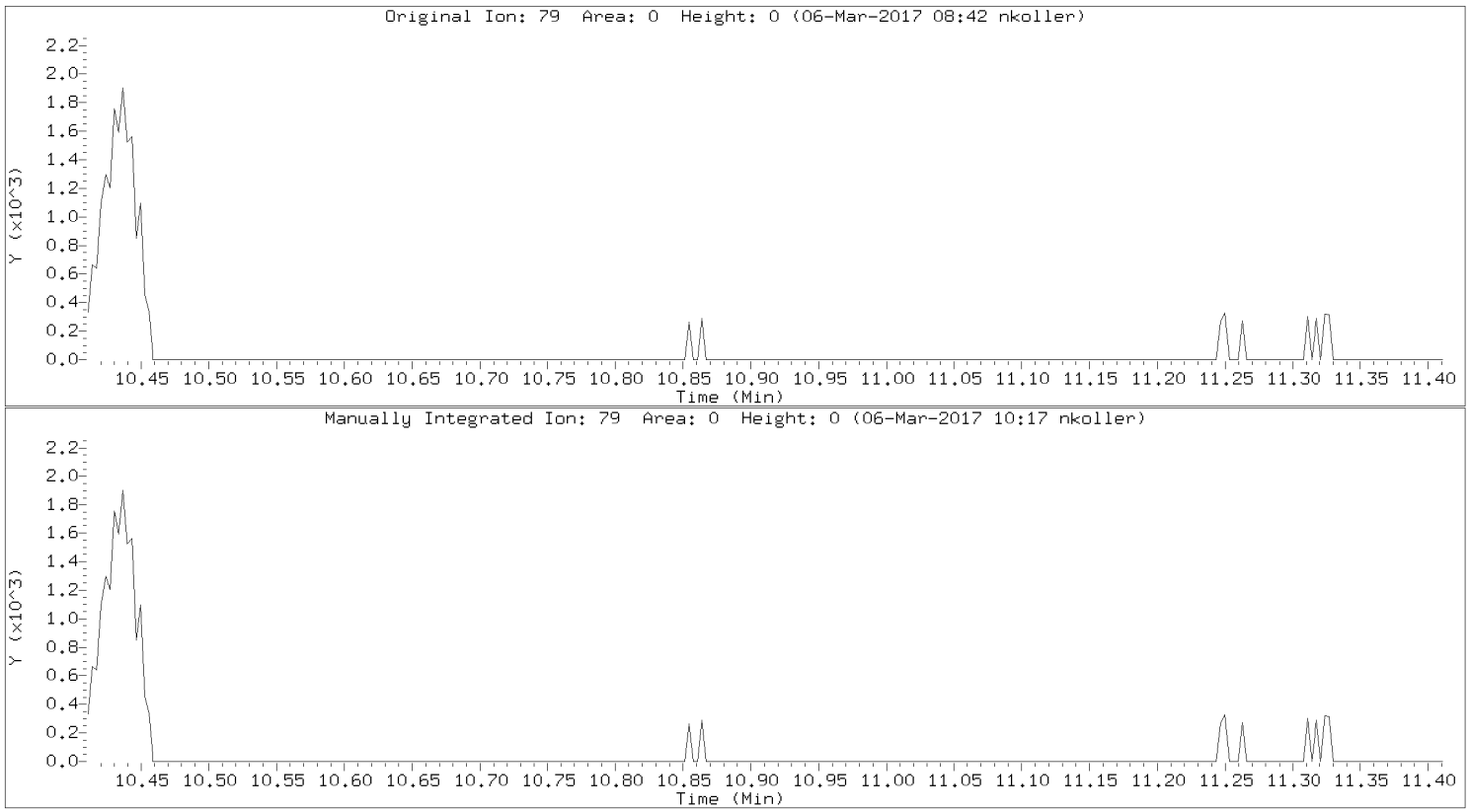








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06411.D
Injection Date: 05-MAR-2017 14:14
Instrument: 10airB.i
Lab Sample ID: 10379458011



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-D13_20170215 **Lab ID: 10379458011** Collected: 02/15/17 17:06 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**66.3**	ug/m3	5.3	0.51	2.12		03/05/17 14:14	67-63-0	
Styrene	**1.0J**	ug/m3	1.8	0.41	2.12		03/05/17 14:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.70**	ug/m3	1.5	0.70	2.12		03/05/17 14:14	79-34-5	
Tetrachloroethene	**49.3**	ug/m3	1.5	0.59	2.12		03/05/17 14:14	127-18-4	
Toluene	**6.5**	ug/m3	1.6	0.33	2.12		03/05/17 14:14	108-88-3	
1,2,4-Trichlorobenzene	**<1.9**	ug/m3	8.0	1.9	2.12		03/05/17 14:14	120-82-1	
1,1,1-Trichloroethane	**<0.52**	ug/m3	2.4	0.52	2.12		03/05/17 14:14	71-55-6	
1,1,2-Trichloroethane	**<0.52**	ug/m3	1.2	0.52	2.12		03/05/17 14:14	79-00-5	
Trichloroethene	**5.0**	ug/m3	1.2	0.59	2.12		03/05/17 14:14	79-01-6	
Trichlorofluoromethane	**2.5**	ug/m3	2.4	0.28	2.12		03/05/17 14:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**4.9**	ug/m3	3.4	0.64	2.12		03/05/17 14:14	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	2.1	0.26	2.12		03/05/17 14:14	95-63-6	
1,3,5-Trimethylbenzene	**<0.39**	ug/m3	2.1	0.39	2.12		03/05/17 14:14	108-67-8	
Vinyl chloride	**<0.41**	ug/m3	0.55	0.41	2.12		03/05/17 14:14	75-01-4	
m&p-Xylene	**3.3J**	ug/m3	3.8	1.7	2.12		03/05/17 14:14	179601-23-1	
o-Xylene	**1.5J**	ug/m3	1.9	0.74	2.12		03/05/17 14:14	95-47-6	

Sample: IA-G18_20170215 **Lab ID: 10379458012** Collected: 02/15/17 15:30 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**32.0**	ug/m3	4.4	1.5	1.83		03/05/17 14:45	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/05/17 14:45	107-05-1	
Benzene	**1.5**	ug/m3	0.59	0.22	1.83		03/05/17 14:45	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/05/17 14:45	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/05/17 14:45	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/05/17 14:45	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/05/17 14:45	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/05/17 14:45	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/05/17 14:45	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/05/17 14:45	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/05/17 14:45	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/05/17 14:45	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/05/17 14:45	75-00-3	
Chloroform	**4.2**	ug/m3	0.91	0.35	1.83		03/05/17 14:45	67-66-3	
Chloromethane	**1.2**	ug/m3	0.77	0.20	1.83		03/05/17 14:45	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/05/17 14:45	76-15-3	CL
Cyclohexane	**0.72J**	ug/m3	1.3	0.58	1.83		03/05/17 14:45	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/05/17 14:45	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/05/17 14:45	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/05/17 14:45	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/05/17 14:45	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/05/17 14:45	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-G18_20170215 **Lab ID: 10379458012** Collected: 02/15/17 15:30 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/05/17 14:45	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.8	0.88	1.83		03/05/17 14:45	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/05/17 14:45	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/05/17 14:45	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/05/17 14:45	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/05/17 14:45	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/05/17 14:45	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/05/17 14:45	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/05/17 14:45	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/05/17 14:45	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/05/17 14:45	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/05/17 14:45	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/05/17 14:45	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/05/17 14:45	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.8	0.34	1.83		03/05/17 14:45	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/05/17 14:45	87-68-3	
n-Hexane	**1.4**	ug/m3	1.3	0.65	1.83		03/05/17 14:45	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/05/17 14:45	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/05/17 14:45	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/05/17 14:45	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/05/17 14:45	108-87-2	
Methylene Chloride	**4.5J**	ug/m3	6.5	0.99	1.83		03/05/17 14:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/05/17 14:45	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/05/17 14:45	1634-04-4	
2-Propanol	**107**	ug/m3	4.6	0.44	1.83		03/05/17 14:45	67-63-0	
Styrene	**0.81J**	ug/m3	1.6	0.35	1.83		03/05/17 14:45	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/05/17 14:45	79-34-5	
Tetrachloroethene	**1.1J**	ug/m3	1.3	0.51	1.83		03/05/17 14:45	127-18-4	
Toluene	**3.3**	ug/m3	1.4	0.28	1.83		03/05/17 14:45	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/05/17 14:45	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/05/17 14:45	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/05/17 14:45	79-00-5	
Trichloroethene	**<0.51**	ug/m3	1.0	0.51	1.83		03/05/17 14:45	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.1	0.24	1.83		03/05/17 14:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/05/17 14:45	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/05/17 14:45	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/05/17 14:45	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/05/17 14:45	75-01-4	
m&p-Xylene	**2.2J**	ug/m3	3.2	1.4	1.83		03/05/17 14:45	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/05/17 14:45	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D
Report Date: 06-Mar-2017 10:23

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06412.D
Lab Smp Id: 10379458012
Inj Date : 05-MAR-2017 14:45
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 05-Mar-2017 09:58 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 12
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	2.999	2.979	(0.536)	15984	1.97380	3.61(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.047	3.021	(0.544)	11785	0.22338	0.409	
6	Chloromethane	50	3.140	3.124	(0.561)	4883	0.30768	0.563	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.558	3.542	(0.636)	2307428	454.628	832(A)	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						(D)
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.652	3.655	(0.652)	4325	0.11421	0.209	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.706	3.713	(0.662)	158634	7.23815	13.2	
19	Isopropyl Alcohol	45	3.780	3.764	(0.675)	520982	23.3084	42.7	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D
Report Date: 06-Mar-2017 10:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.989	3.992	(0.713)	10655	0.68881	1.26	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.385	(0.792)	8050	0.39917	0.730(MH)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.481	(0.800)	423099	9.62762	9.63	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.574	4.578	(0.817)	4753	0.21578	0.395(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.713	4.713	(0.842)	11567	0.40803	0.747(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.812	4.838	(0.860)	13101	0.45782	0.838	
	40 Tetrahydrofuran	42	4.992	4.989	(0.892)	1559	0.10192	0.187(QM)	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.446	5.465	(0.973)	11336	0.25447	0.466	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.478	5.484	(0.979)	2519	0.11296	0.207(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.597	5.610	(1.000)	1381295	10.0000		
	48 2,2,4-Trimethylpentane	57	5.758	5.767	(1.029)	11249	0.16303	0.298	
	49 Heptane	43	5.873	5.889	(1.049)	2596	0.10429	0.191	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.263)	1184611	9.58193	9.58	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.143	7.153	(1.276)	26339	0.47212	0.864	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	2821	0.09070	0.166	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	895683	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.073	9.082	(1.050)	13872	0.26828	0.491	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.510	9.507	(1.101)	1093	0.10164	0.186	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D
Report Date: 06-Mar-2017 10:23

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppbv)	(ppbv)	
	78	4-Ethyltoluene	105	10.905	10.912	(1.262)	2185	0.12773	0.234(QM)	
	79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
	80	n-Decane	57	11.388	11.378	(2.035)	12374	0.57935	1.06(Q)	
	81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
	82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
	83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
	84	Sec- Butylbenzene	105	Compound Not Detected.						
$	85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	497227	10.0775	10.1	
	86	Benzyl Chloride	91	Compound Not Detected.						
	87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
	88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
	89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
	90	1,2-Dichlorobenzene	146	Compound Not Detected.						
	91	N-Butylbenzene	91	Compound Not Detected.						(D)
	92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
	93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	94	Naphthalene	128	14.166	14.169	(1.640)	3355	0.43030	0.787	
	95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D
Report Date: 06-Mar-2017 10:23

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06412.D
Lab Smp Id: 10379458012
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

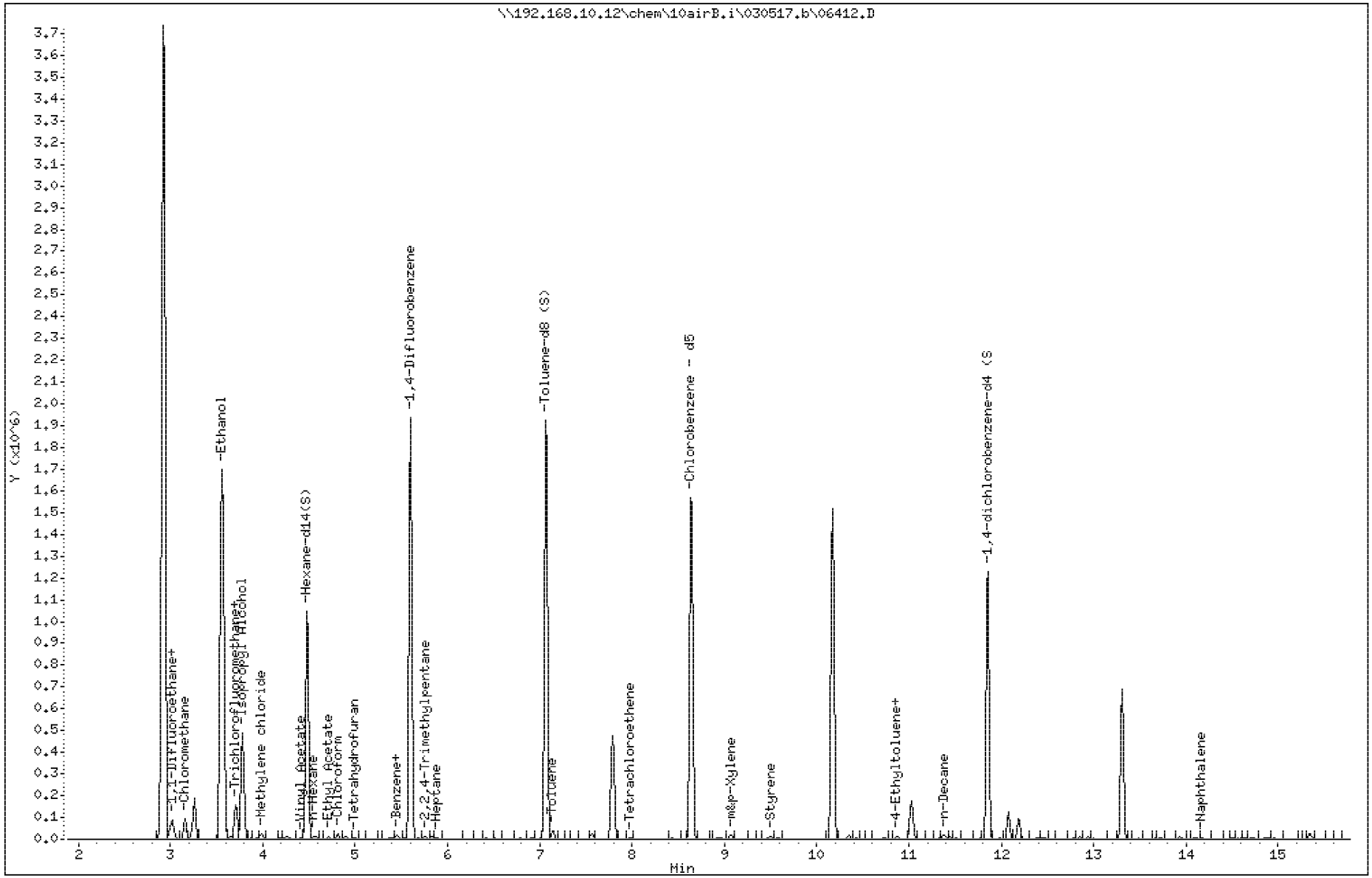
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1381295	-2.32
67 Chlorobenzene - d	951026	570616	1331436	895683	-5.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D
Date : 05-MAR-2017 14:45
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

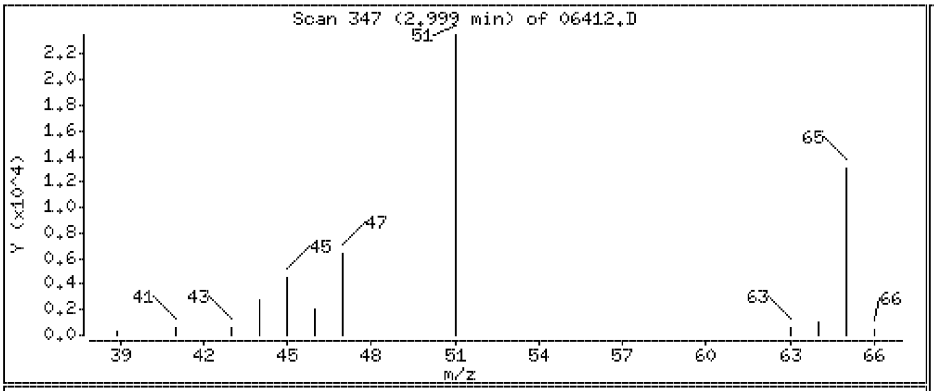
Operator: NCK

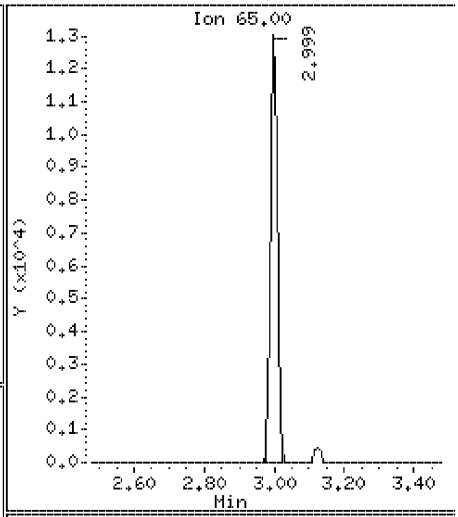
Column phase: J&W DB-5

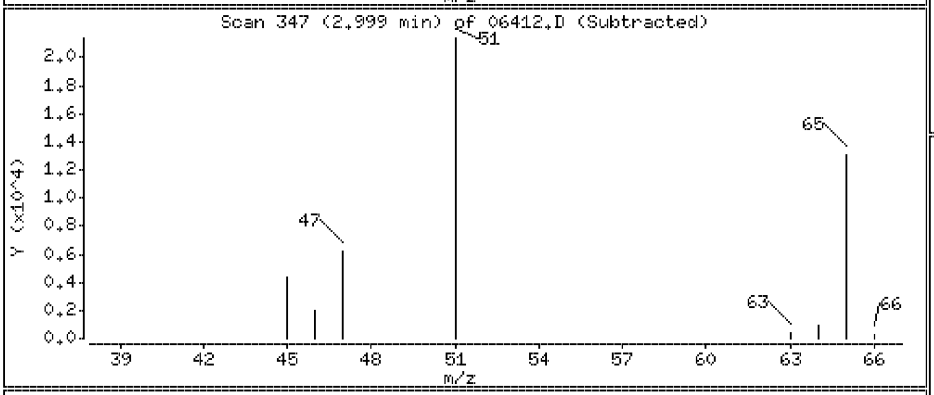
Column diameter: 0.32

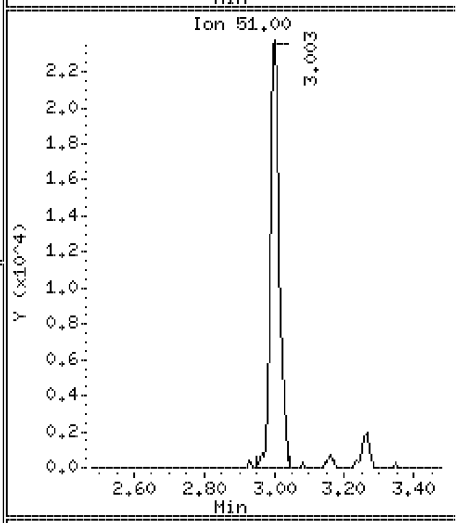
2 1,1-Difluoroethane

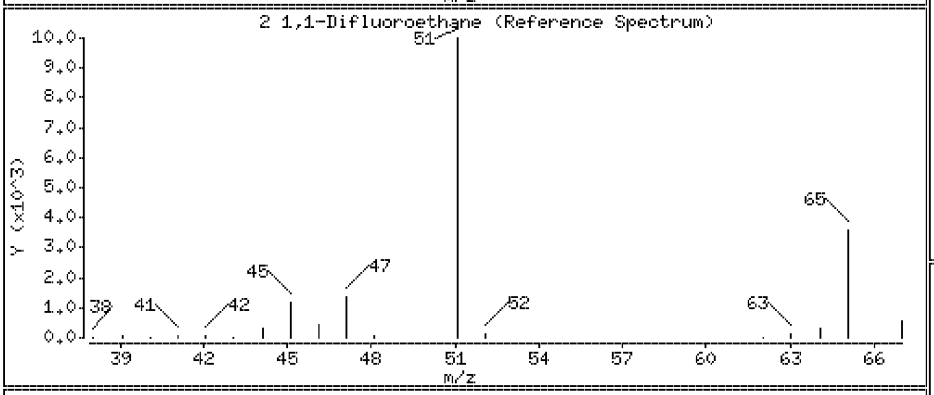
Concentration: 3.61 ppbv

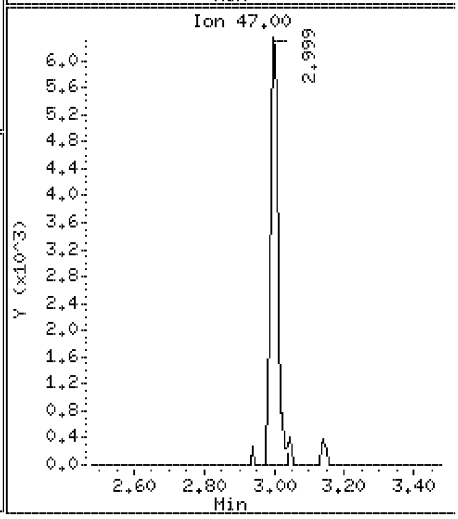


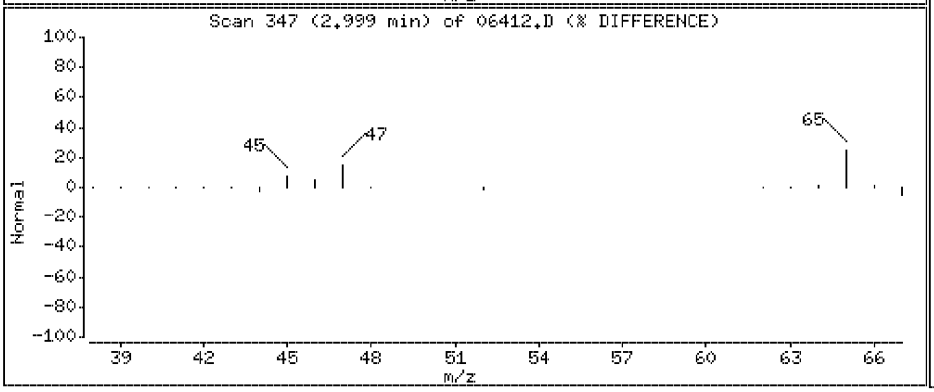












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

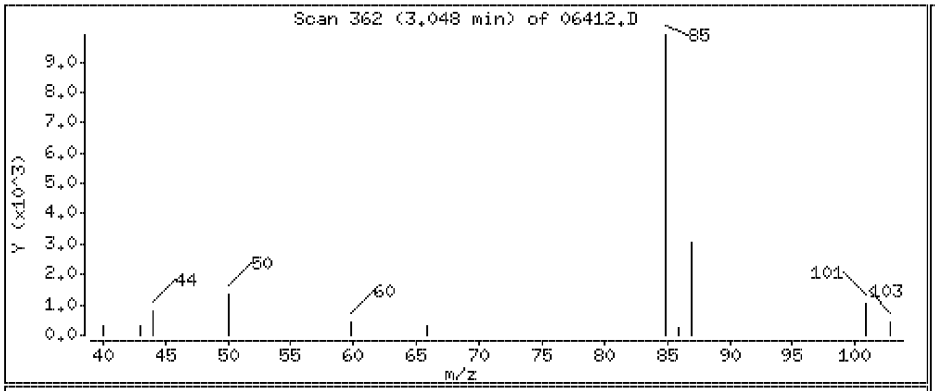
Operator: NCK

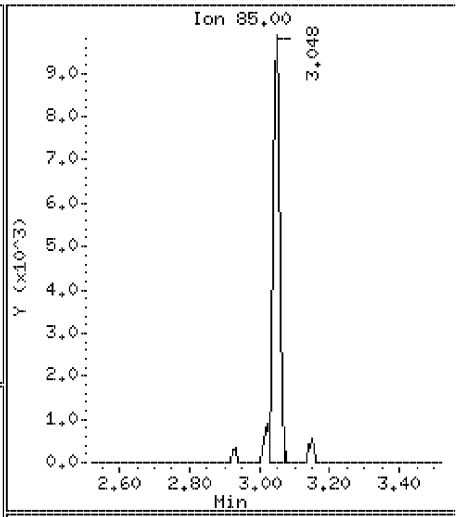
Column phase: J&W DB-5

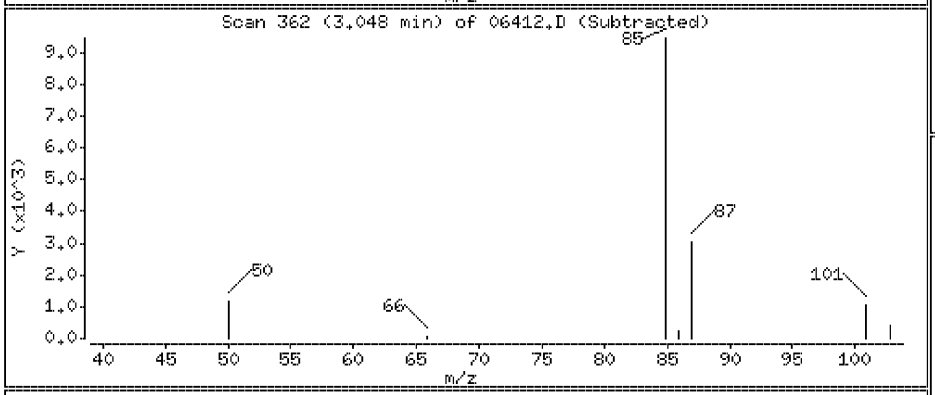
Column diameter: 0.32

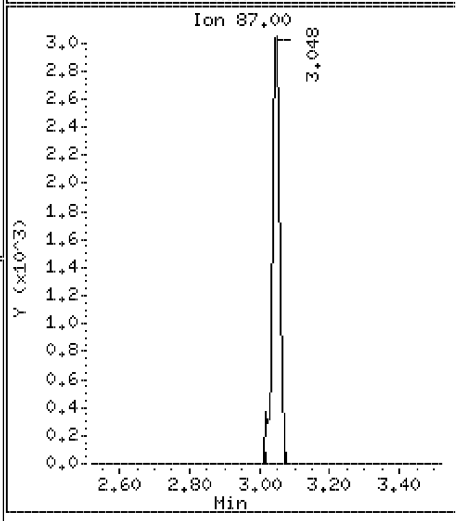
5 Dichlorodifluoromethane

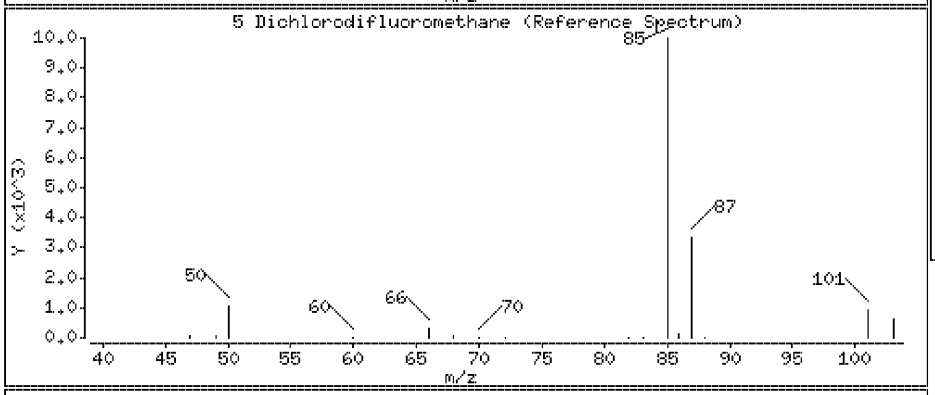
Concentration: 0.409 ppbv

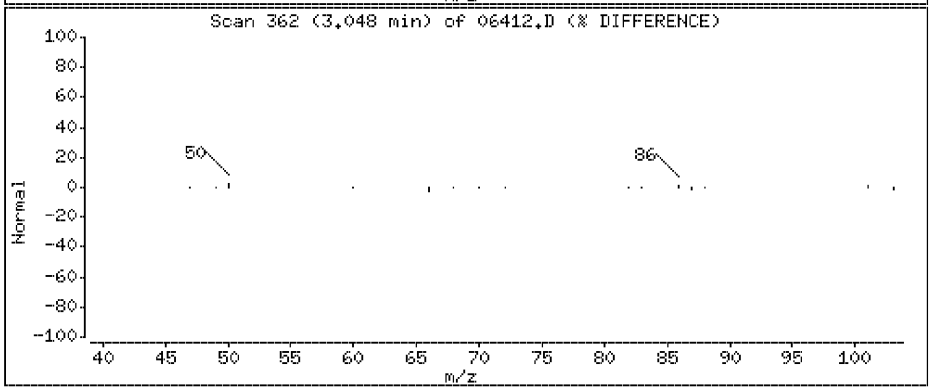












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

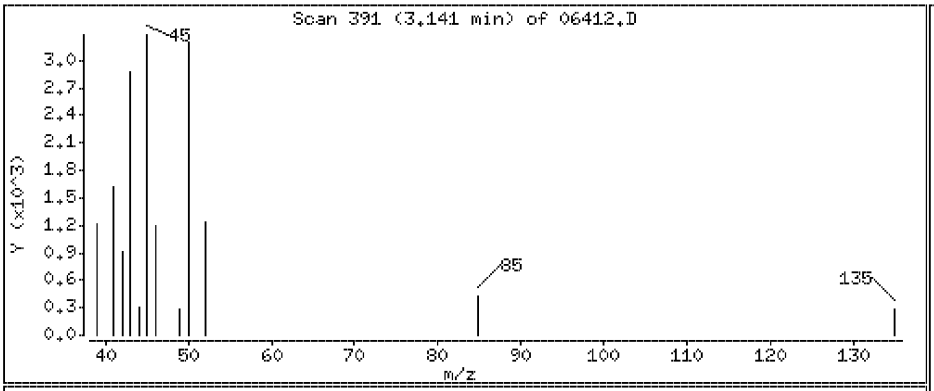
Operator: NCK

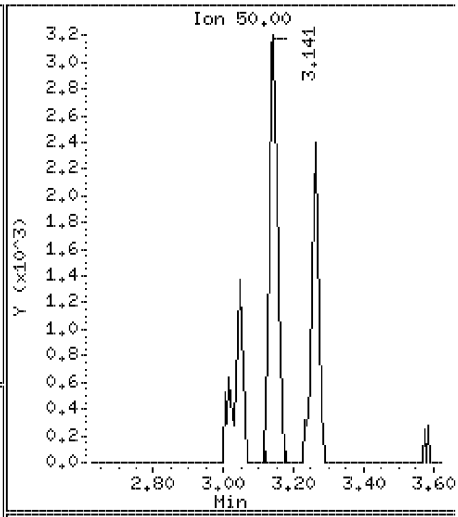
Column phase: J&W DB-5

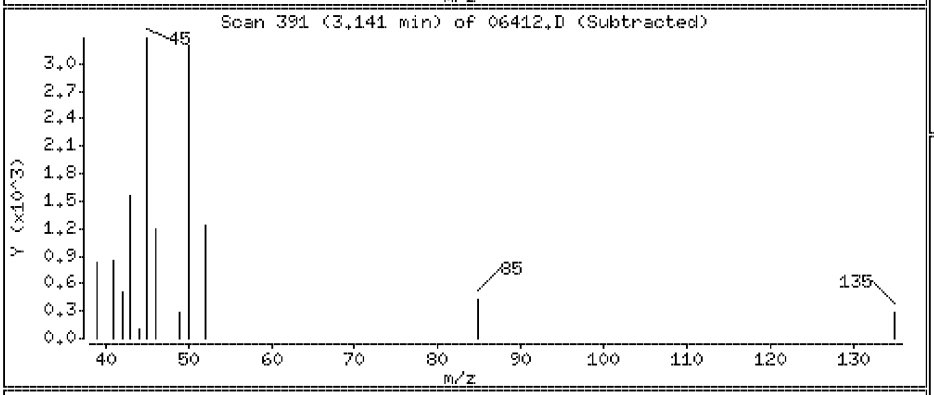
Column diameter: 0.32

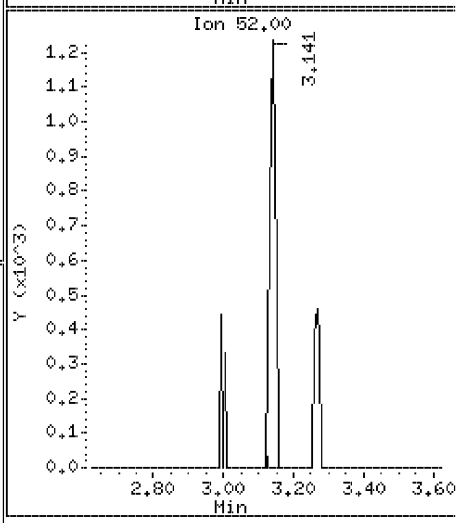
6 Chloromethane

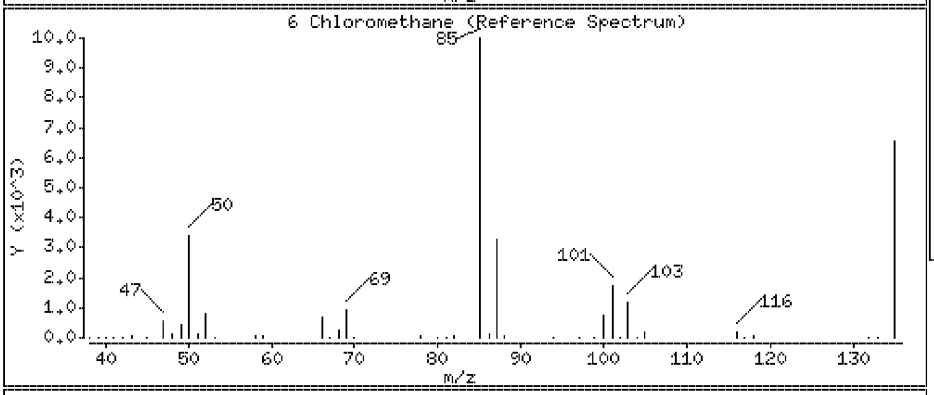
Concentration: 0.563 ppbv

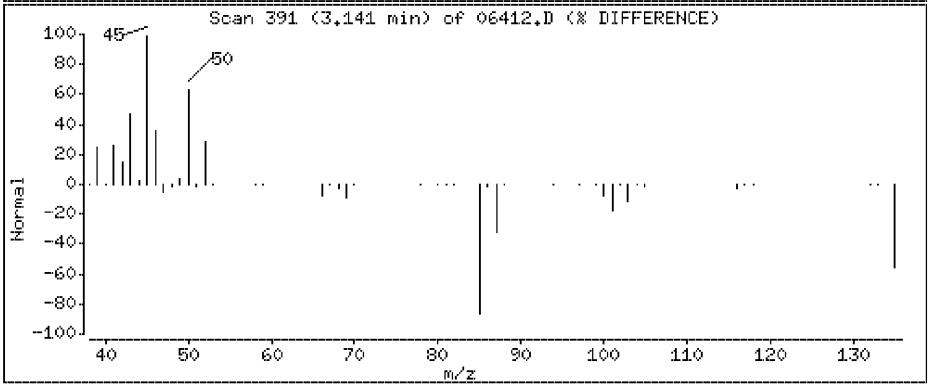












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

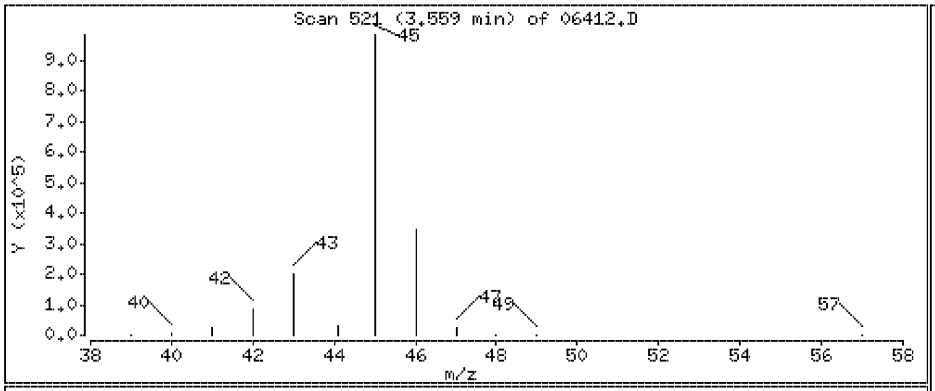
Operator: NCK

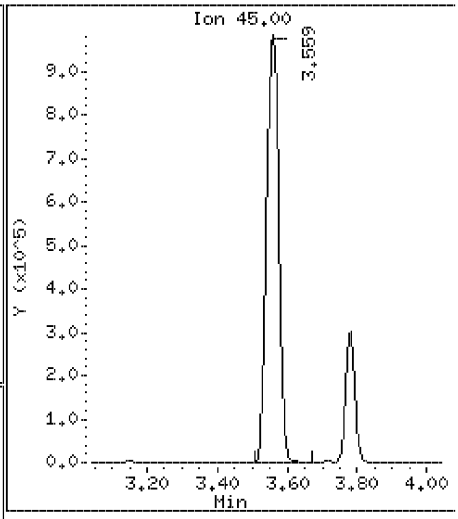
Column phase: J&W DB-5

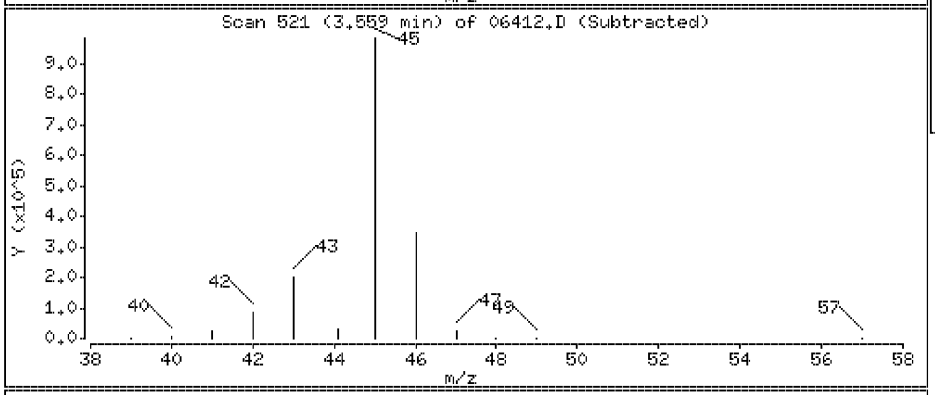
Column diameter: 0.32

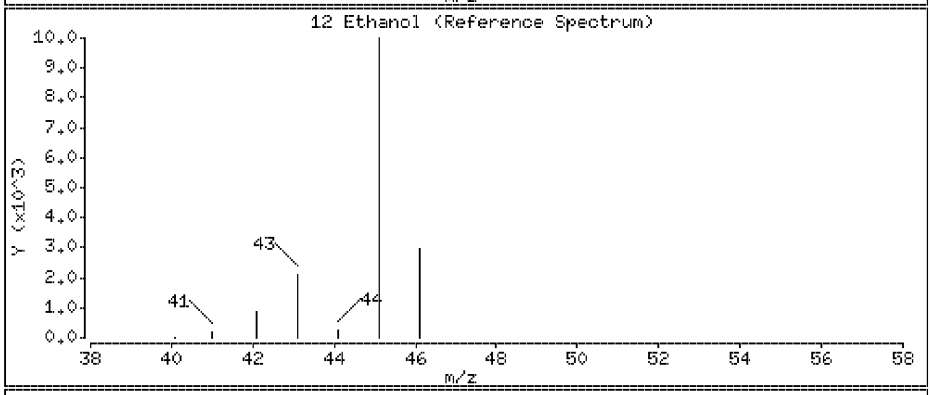
12 Ethanol

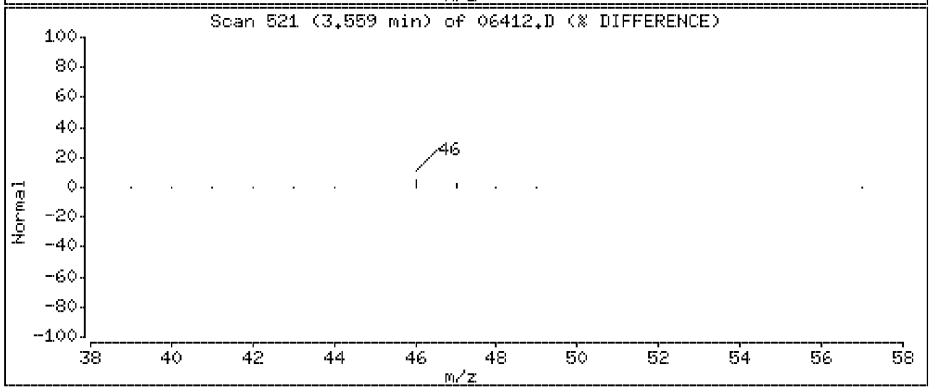
Concentration: 832 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

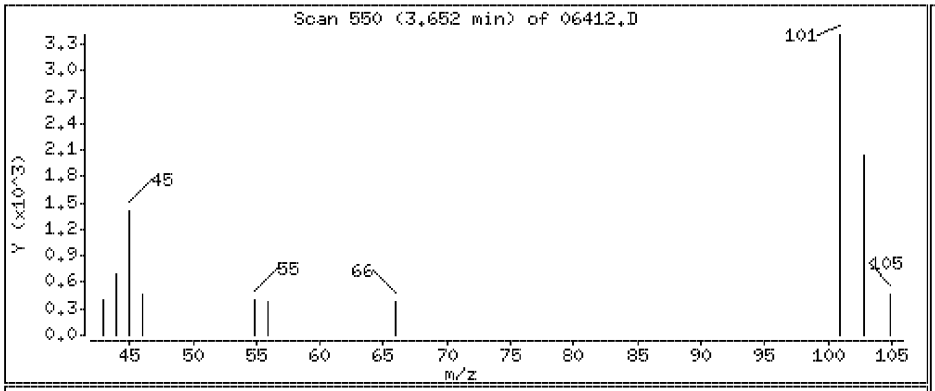
Operator: NCK

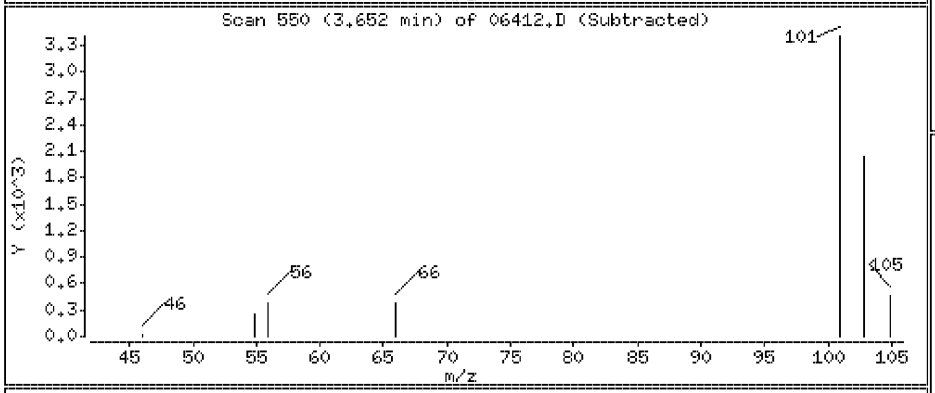
Column phase: J&W DB-5

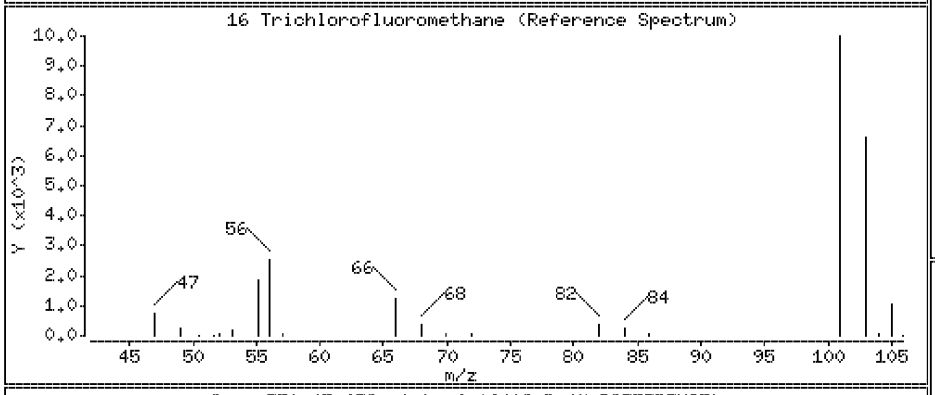
Column diameter: 0.32

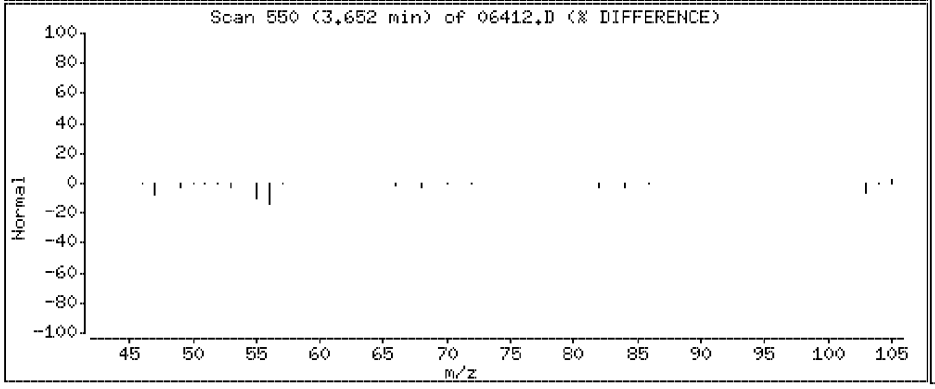
16 Trichlorofluoromethane

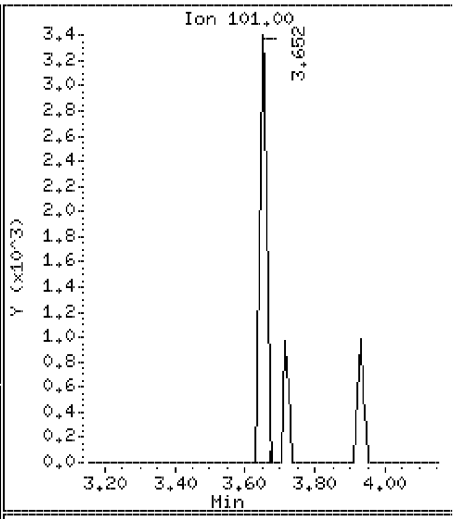
Concentration: 0.209 ppbv

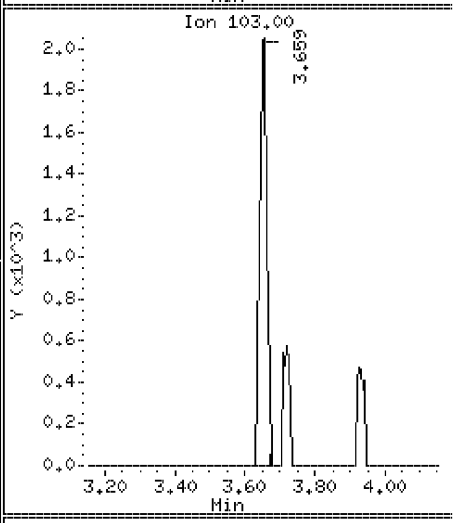


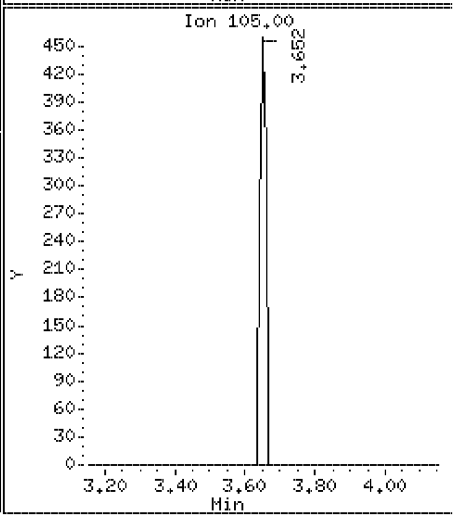












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

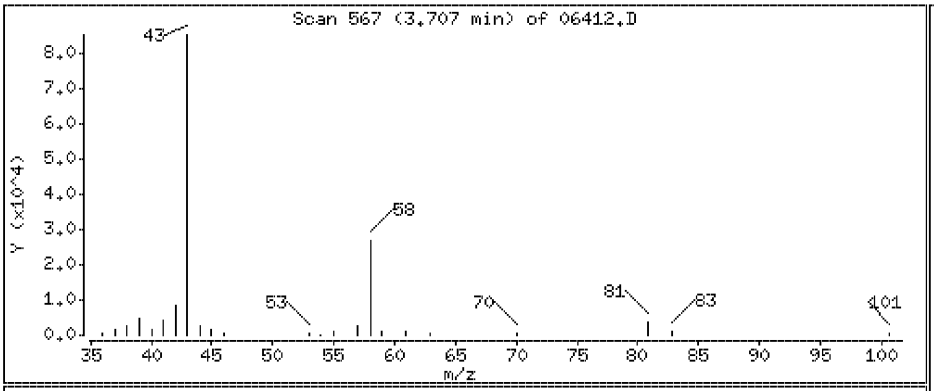
Operator: NCK

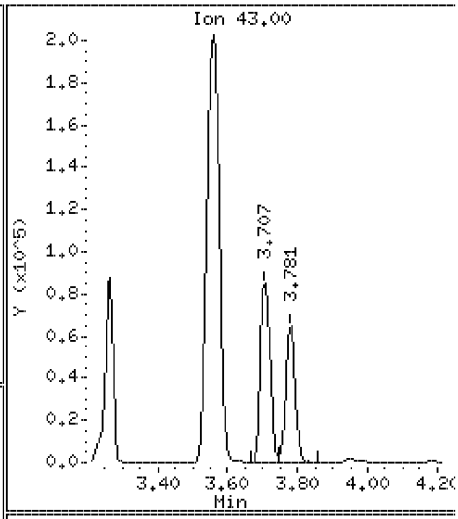
Column phase: J&W DB-5

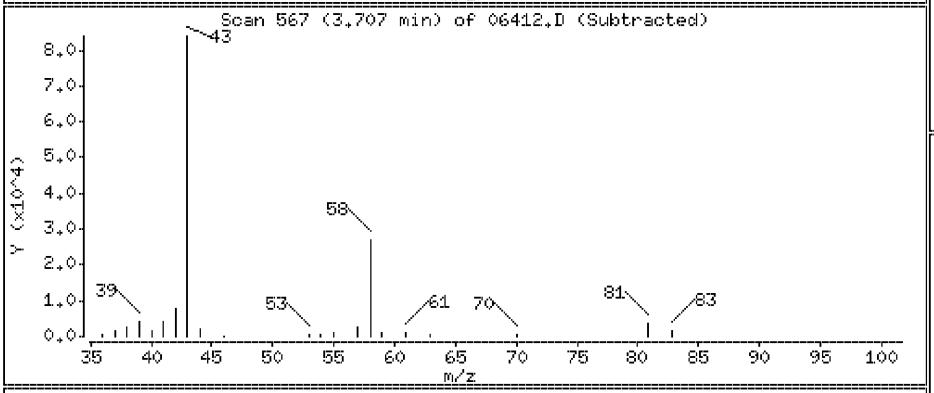
Column diameter: 0.32

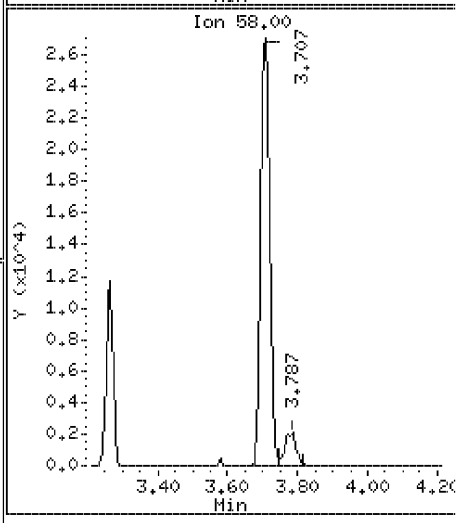
18 Acetone

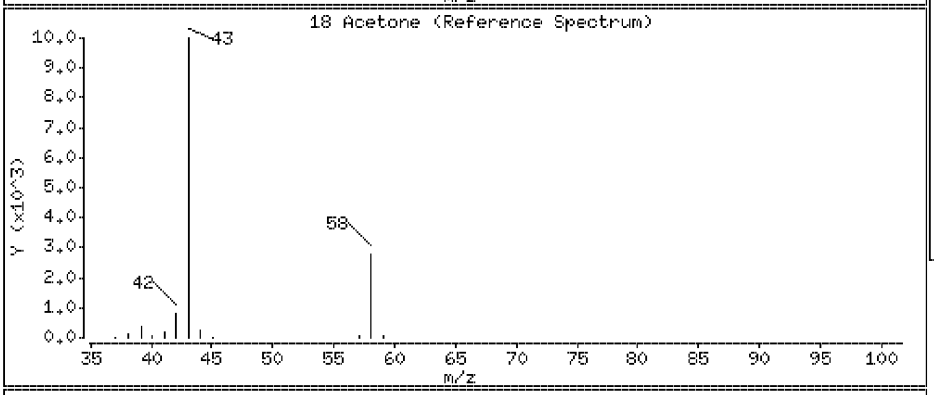
Concentration: 13.2 ppbv

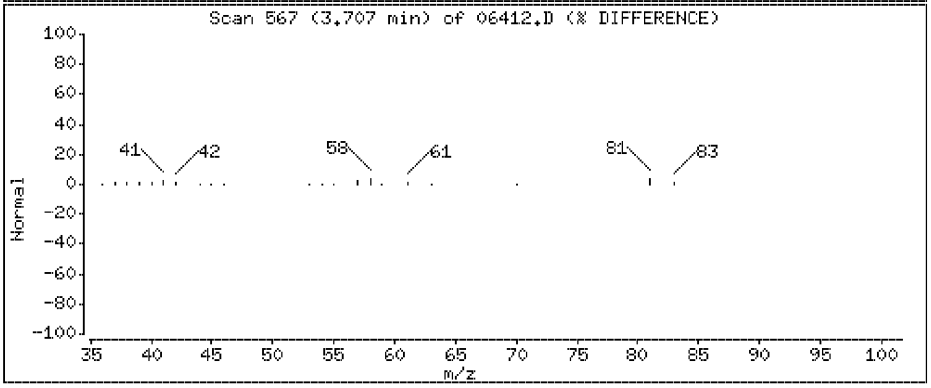












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

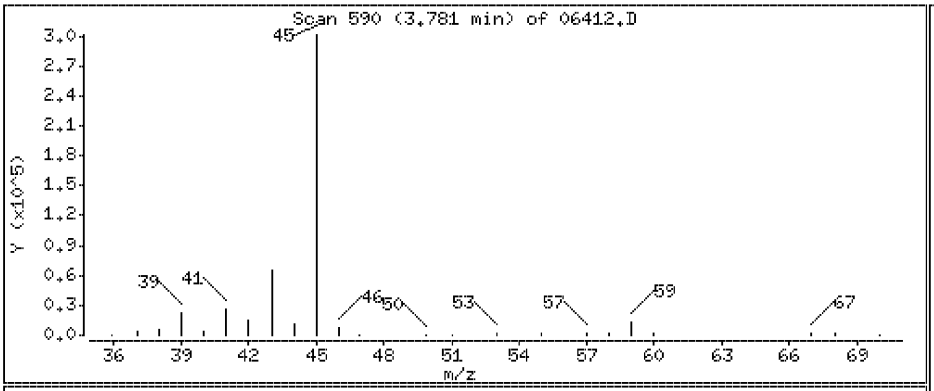
Operator: NCK

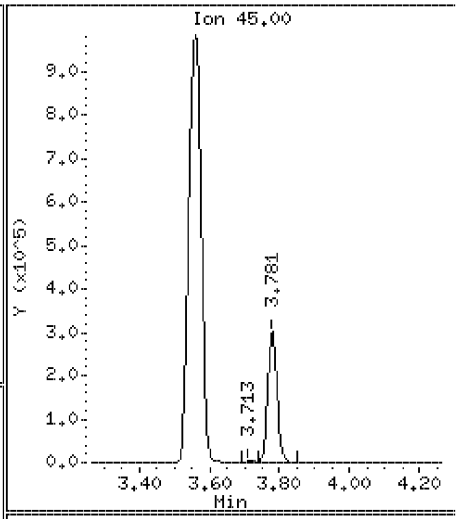
Column phase: J&W DB-5

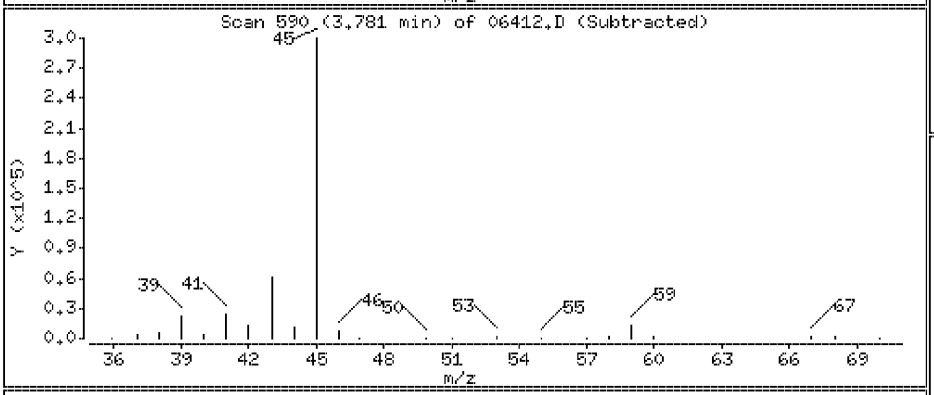
Column diameter: 0.32

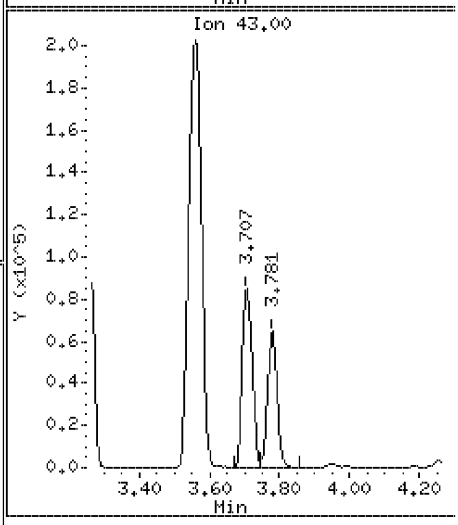
19 Isopropyl Alcohol

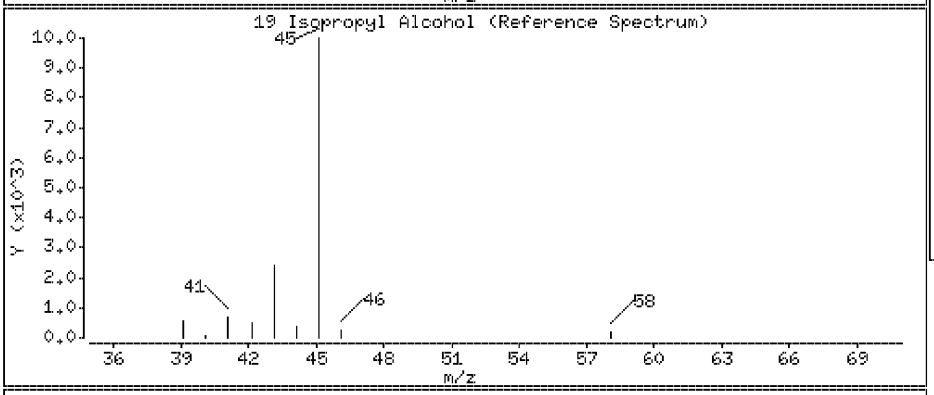
Concentration: 42.7 ppbv

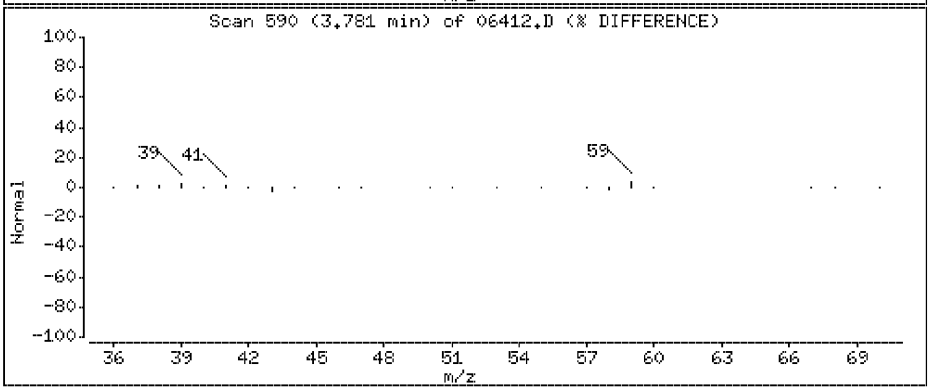












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

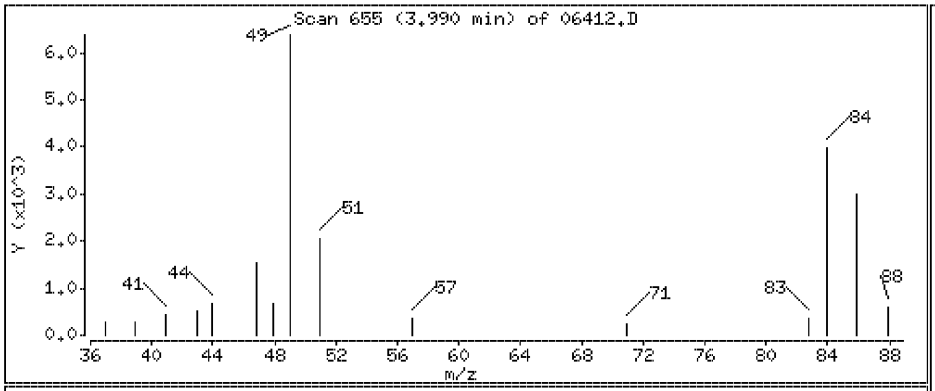
Operator: NCK

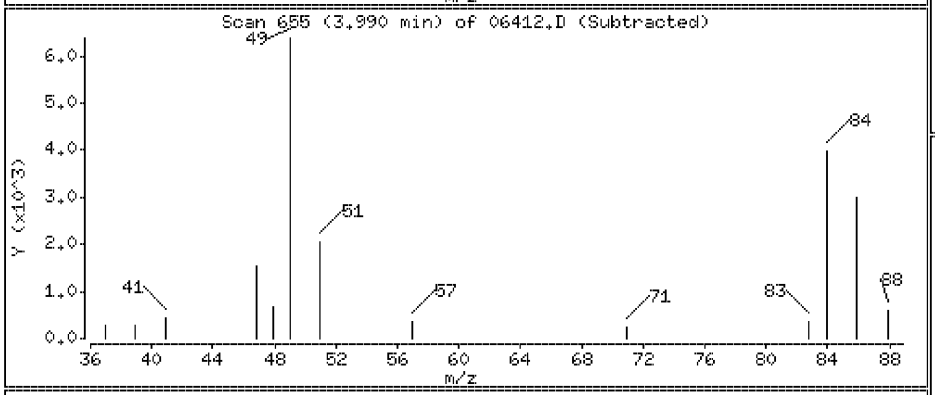
Column phase: J&W DB-5

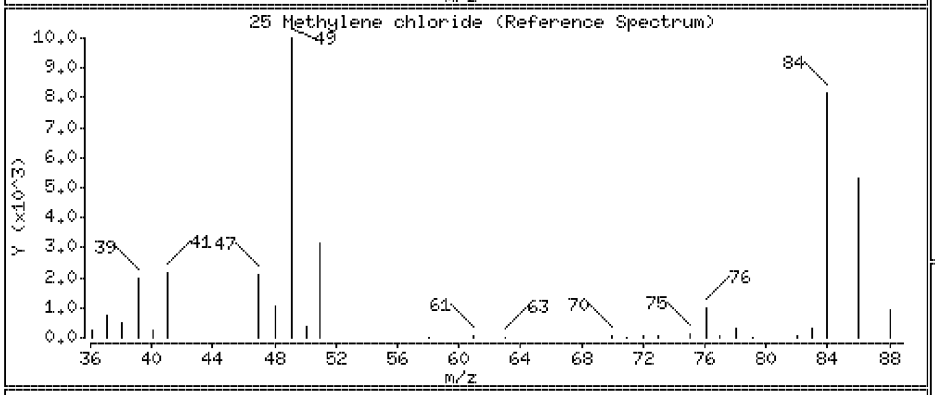
Column diameter: 0.32

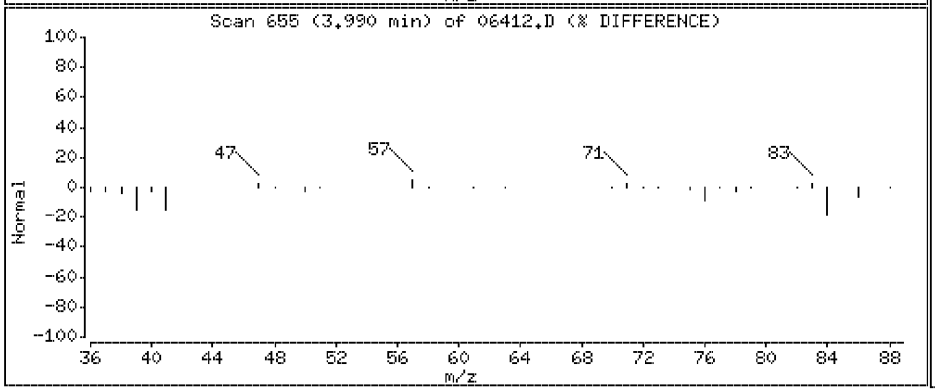
25 Methylene chloride

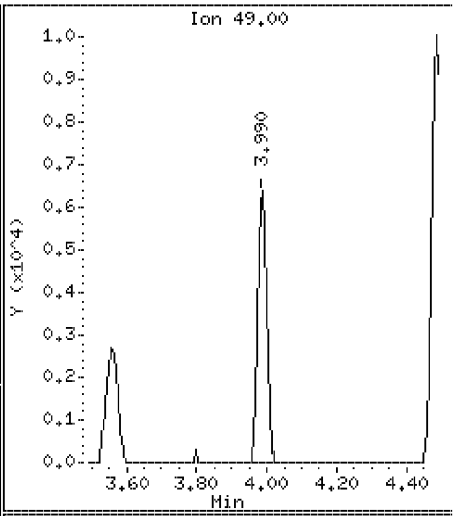
Concentration: 1.26 ppbv

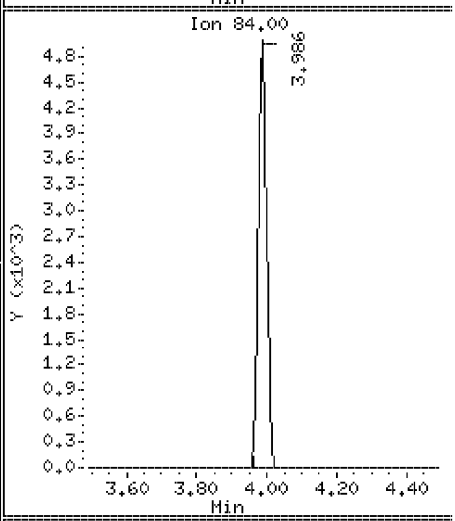


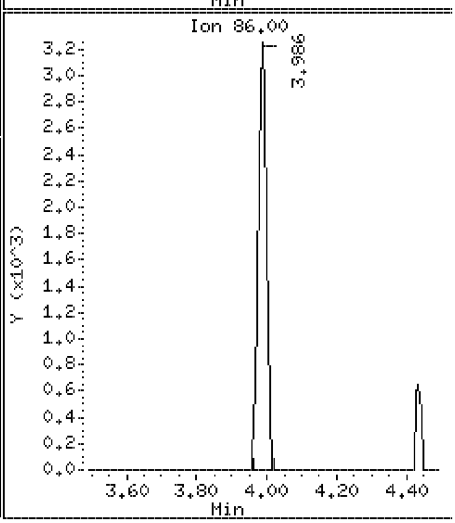












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

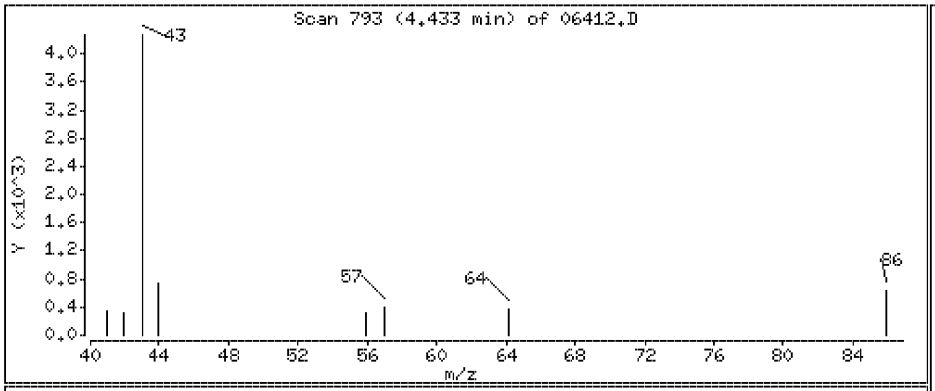
Operator: NCK

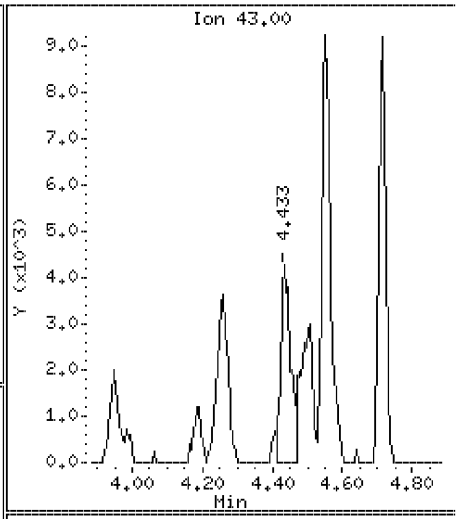
Column phase: J&W DB-5

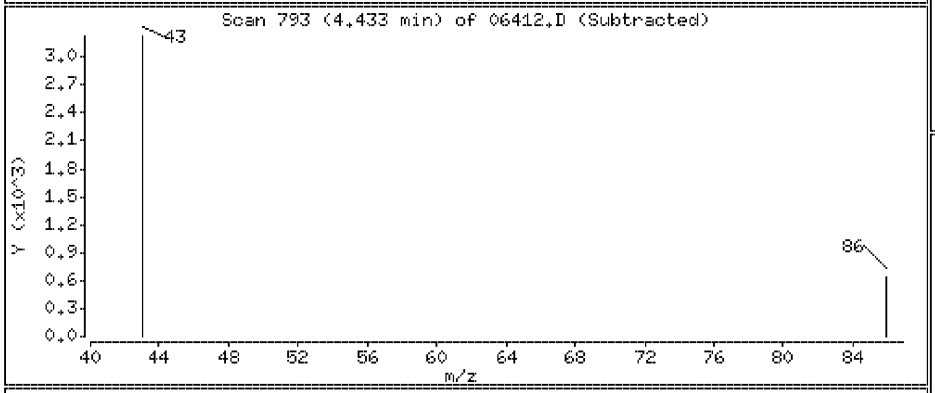
Column diameter: 0.32

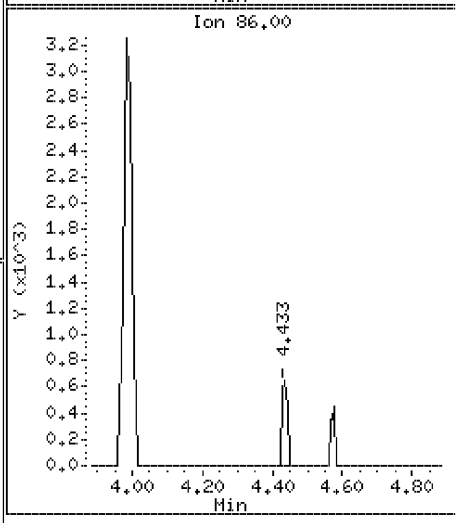
30 Vinyl Acetate

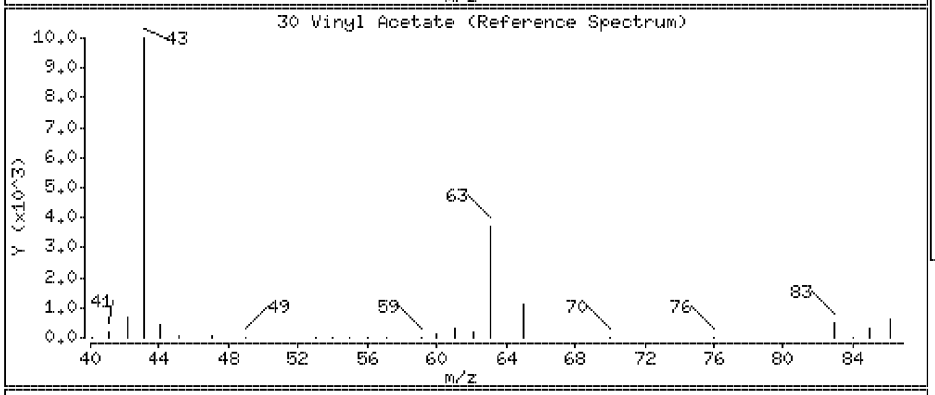
Concentration: 0.730 ppbv

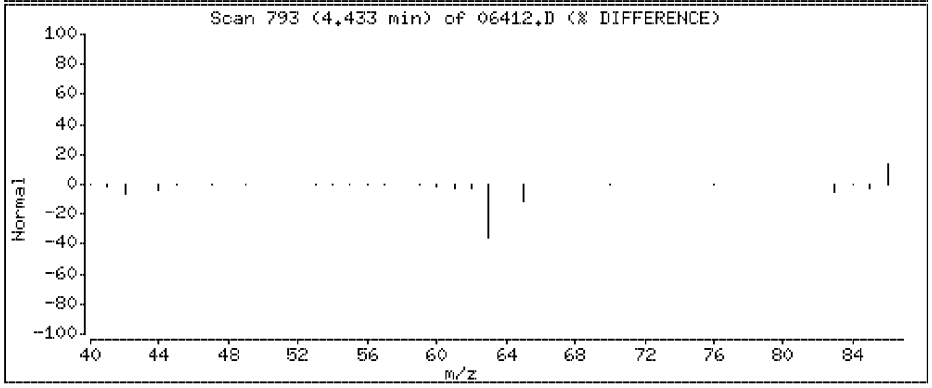












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

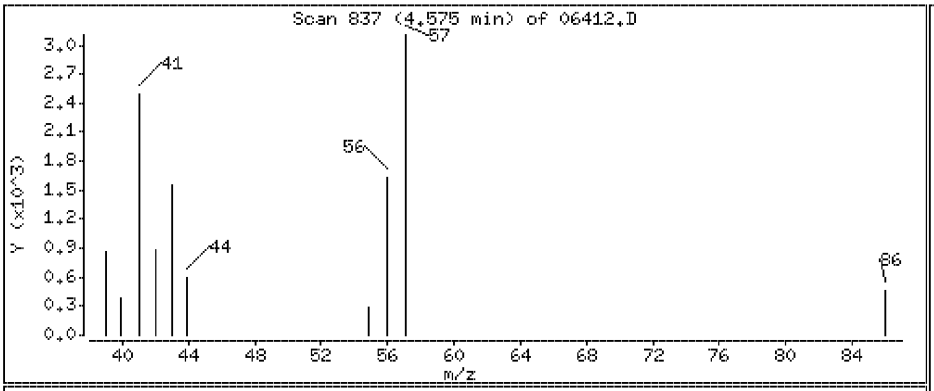
Operator: NCK

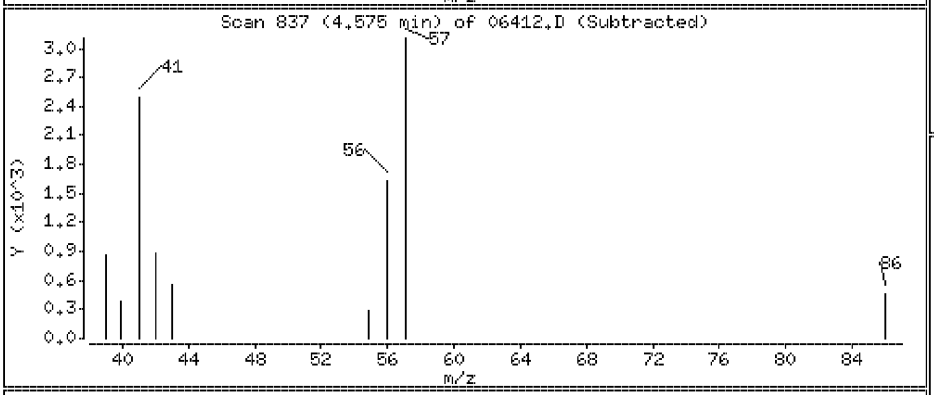
Column phase: J&W DB-5

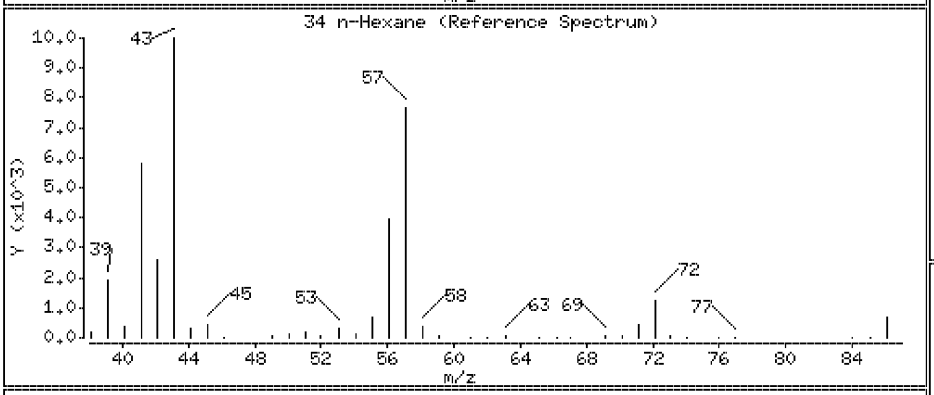
Column diameter: 0.32

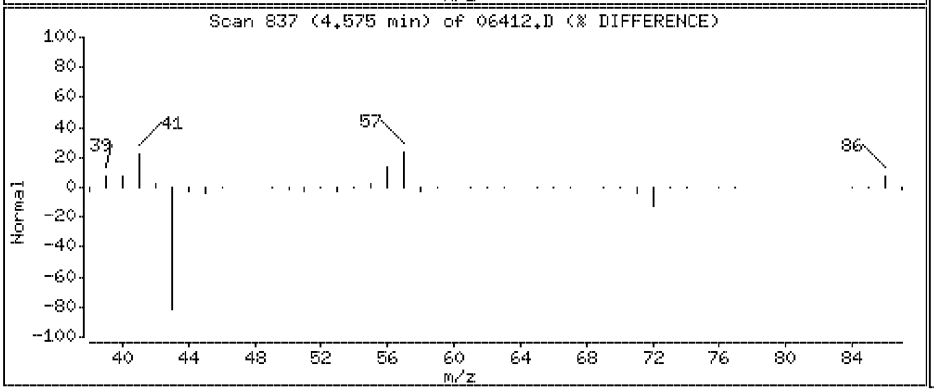
34 n-Hexane

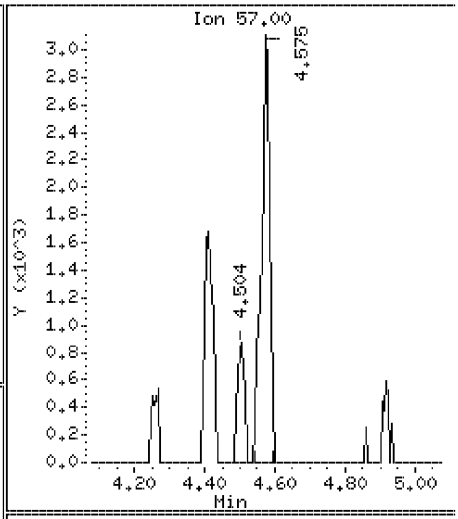
Concentration: 0.395 ppbv

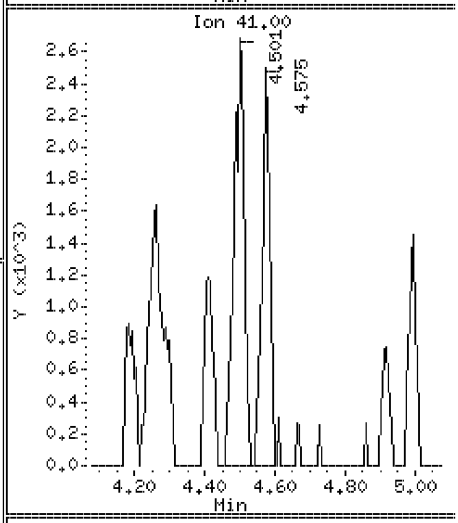


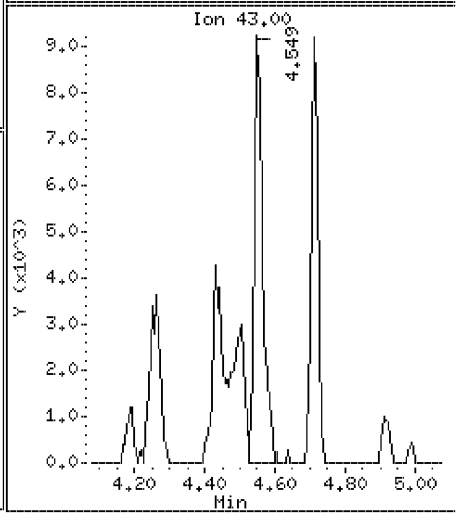












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

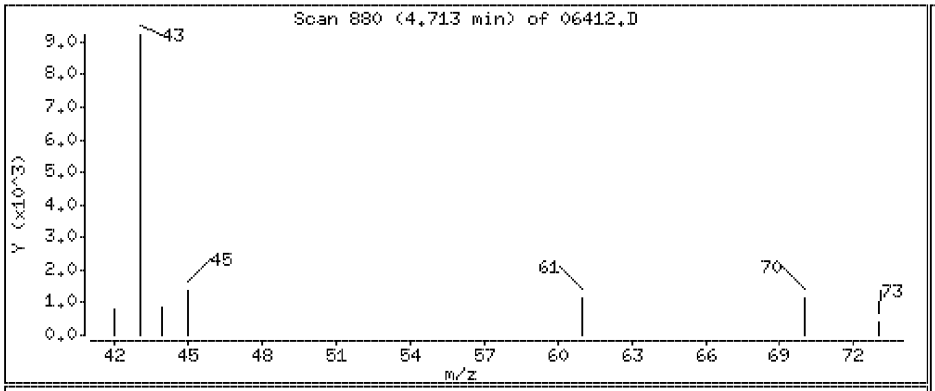
Operator: NCK

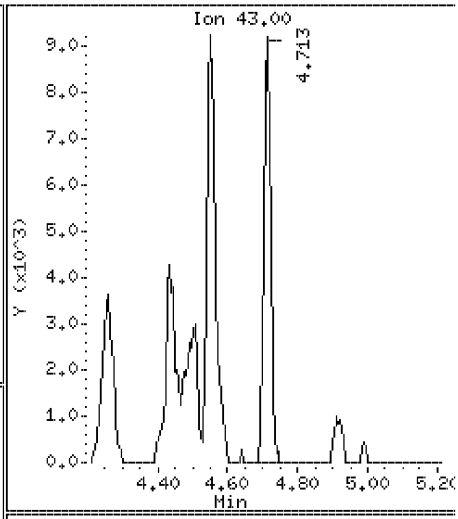
Column phase: J&W DB-5

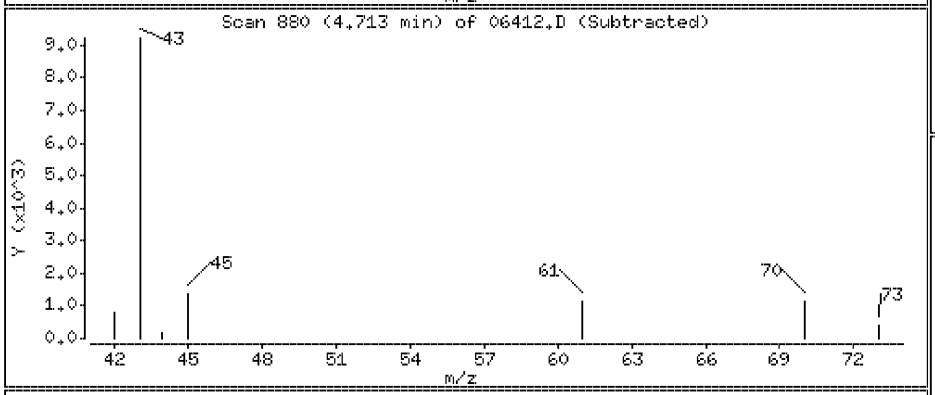
Column diameter: 0.32

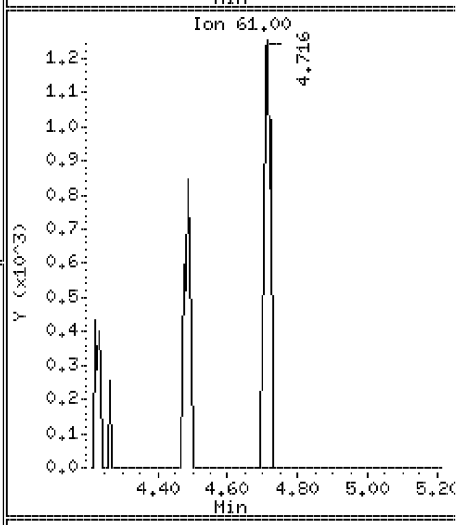
36 Ethyl Acetate

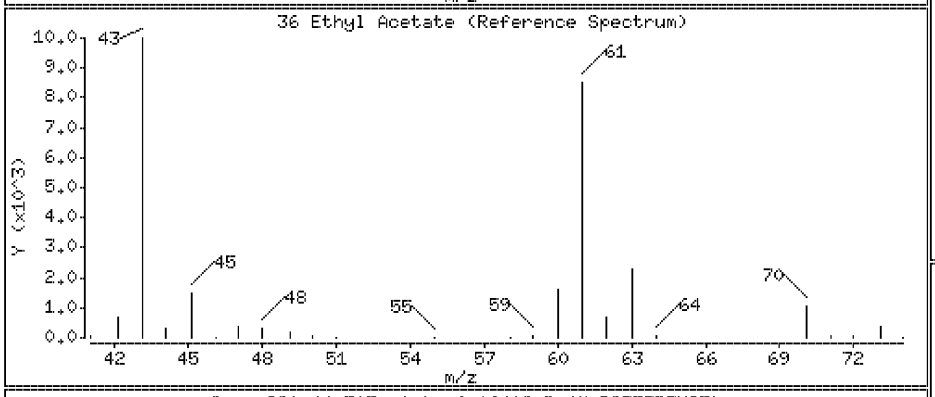
Concentration: 0.747 ppbv

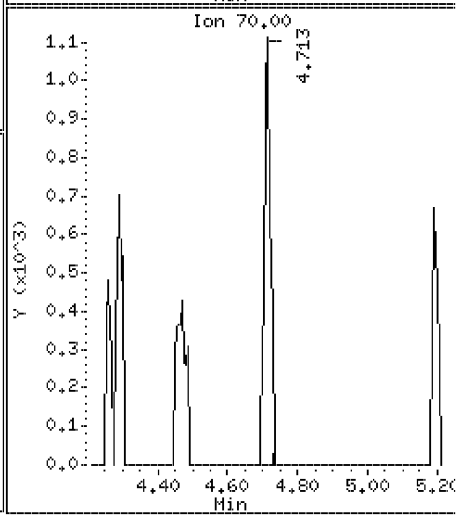


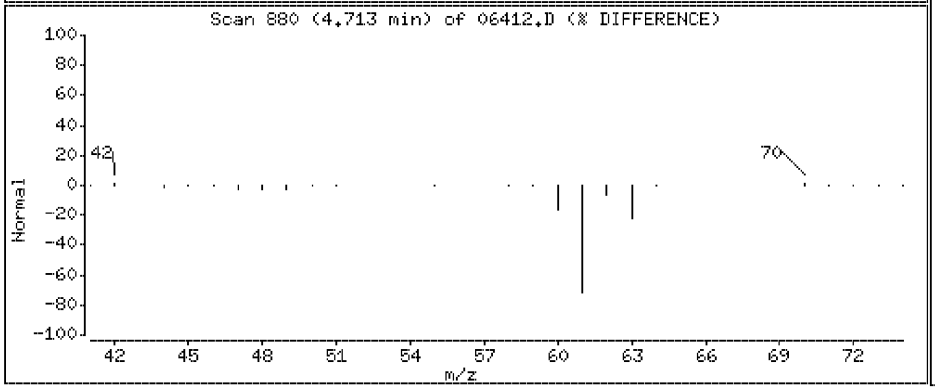












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

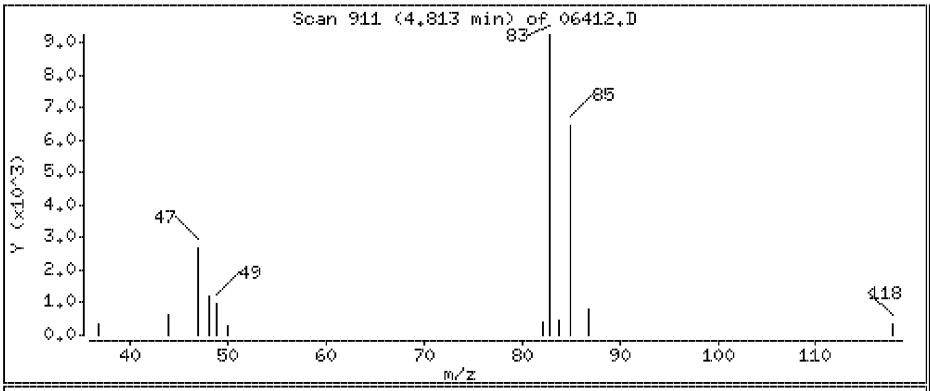
Operator: NCK

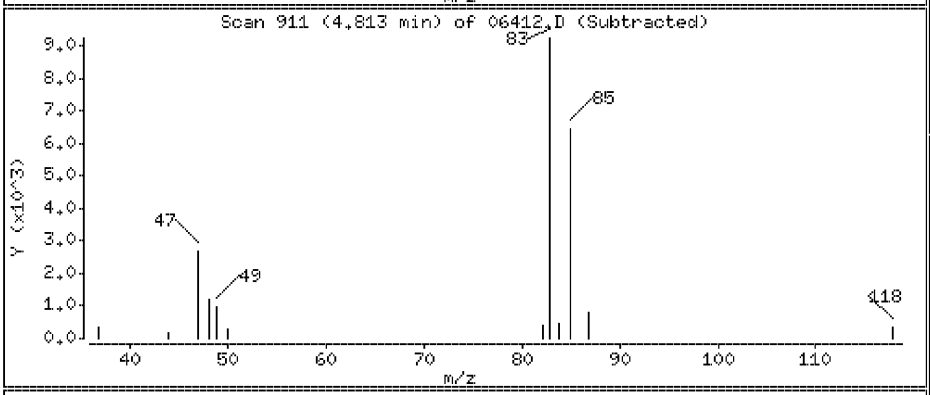
Column phase: J&W DB-5

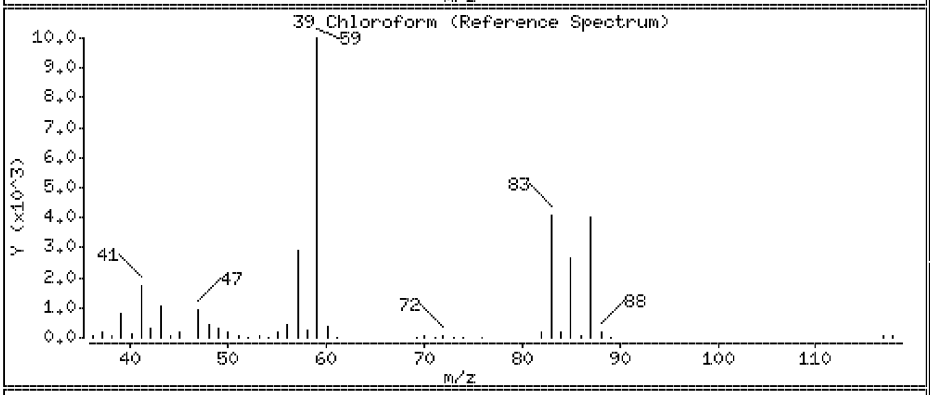
Column diameter: 0.32

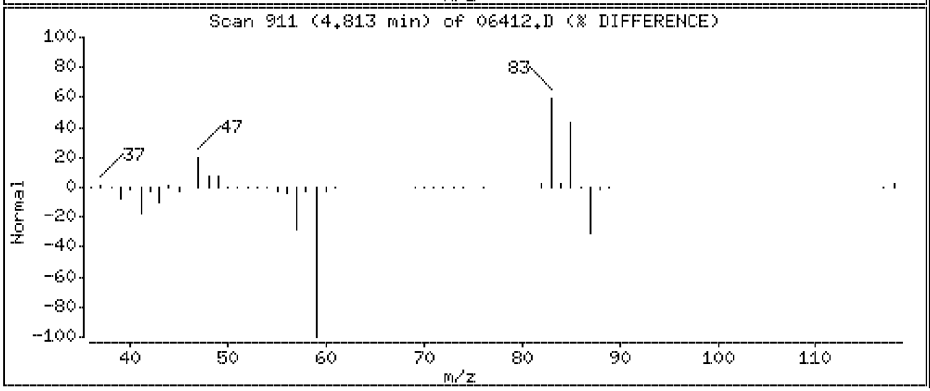
39 Chloroform

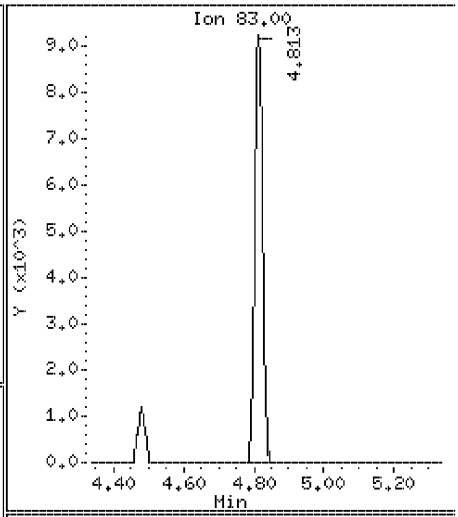
Concentration: 0.838 ppbv

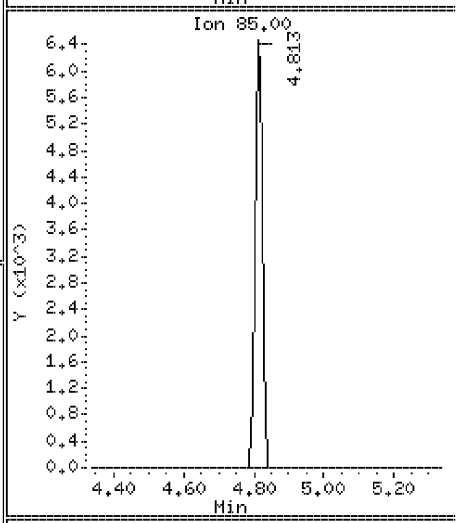


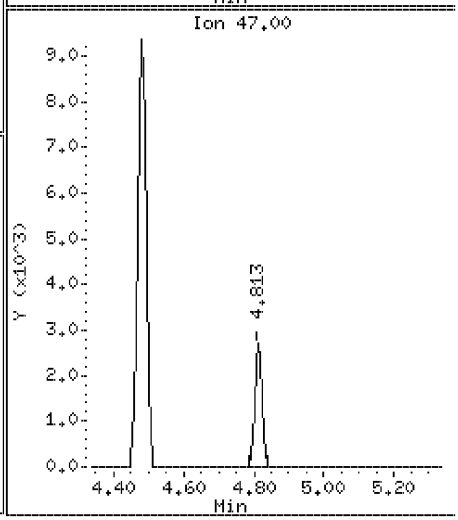












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

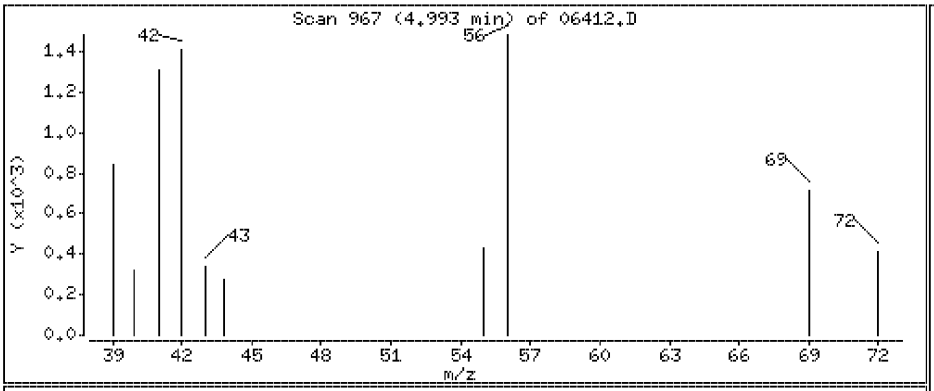
Operator: NCK

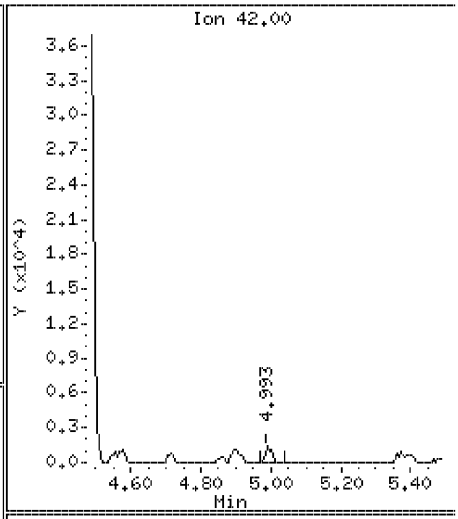
Column phase: J&W DB-5

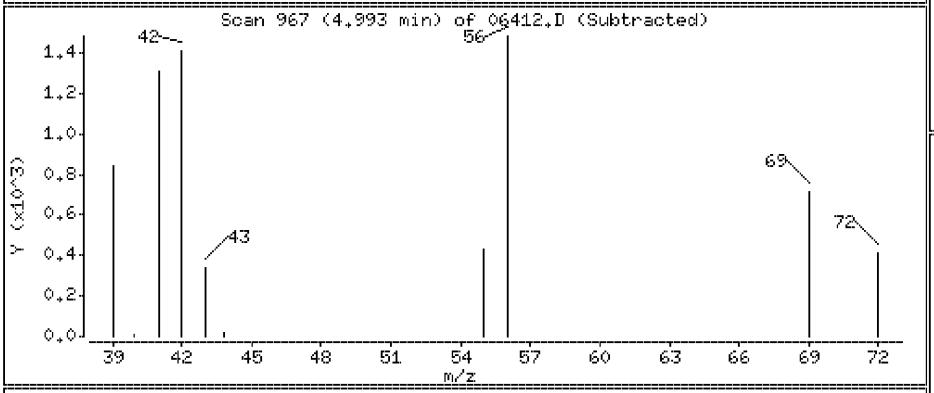
Column diameter: 0.32

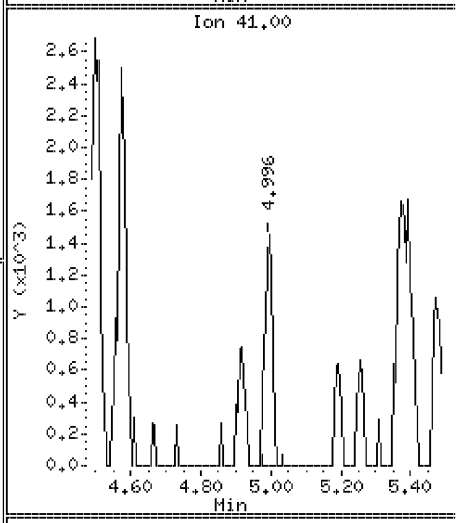
40 Tetrahydrofuran

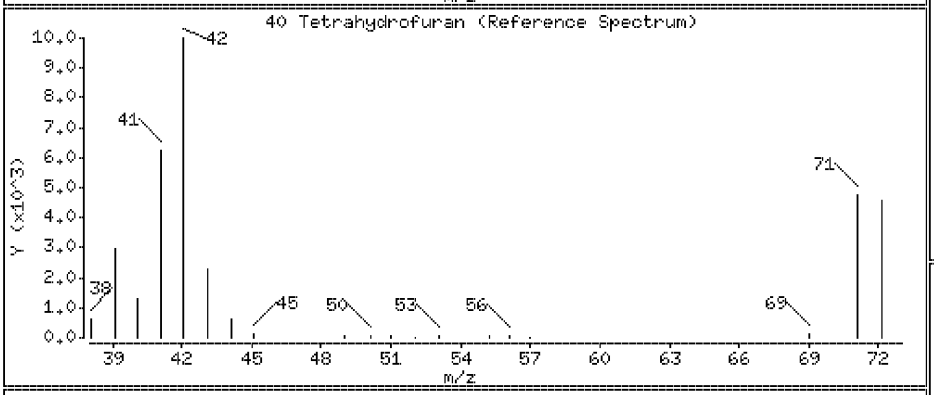
Concentration: 0.187 ppbv

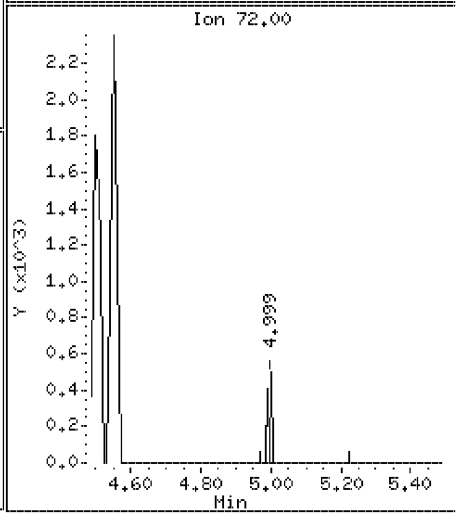


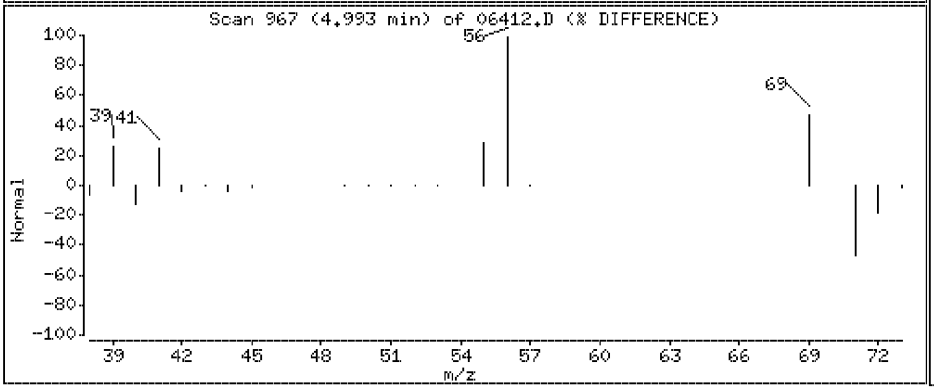












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

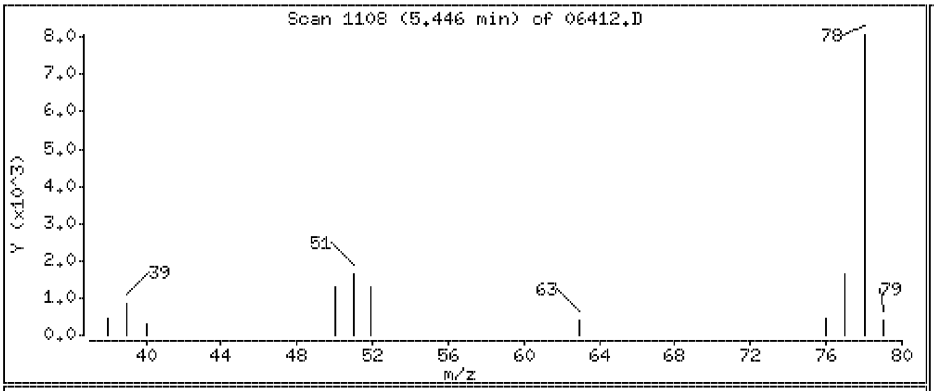
Operator: NCK

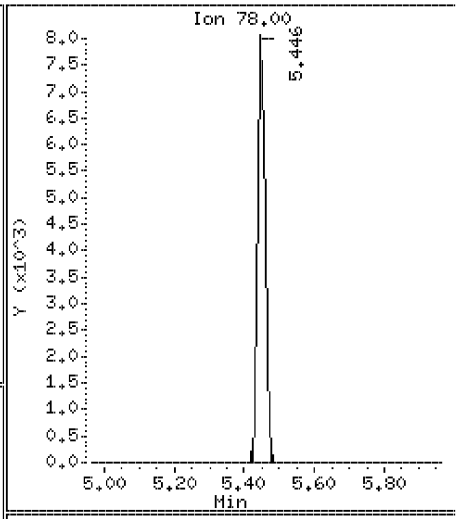
Column phase: J&W DB-5

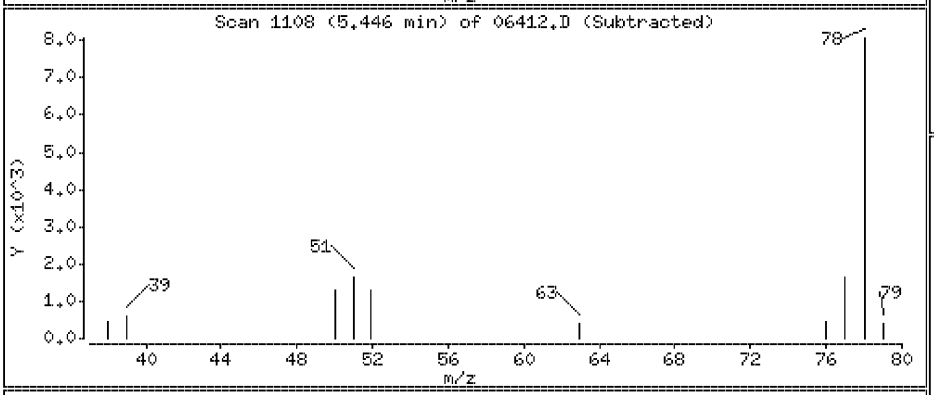
Column diameter: 0.32

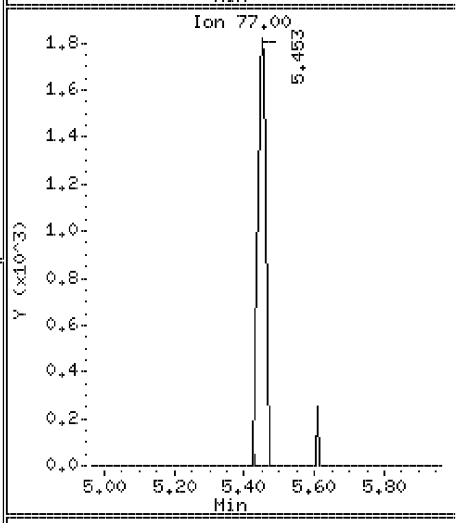
43 Benzene

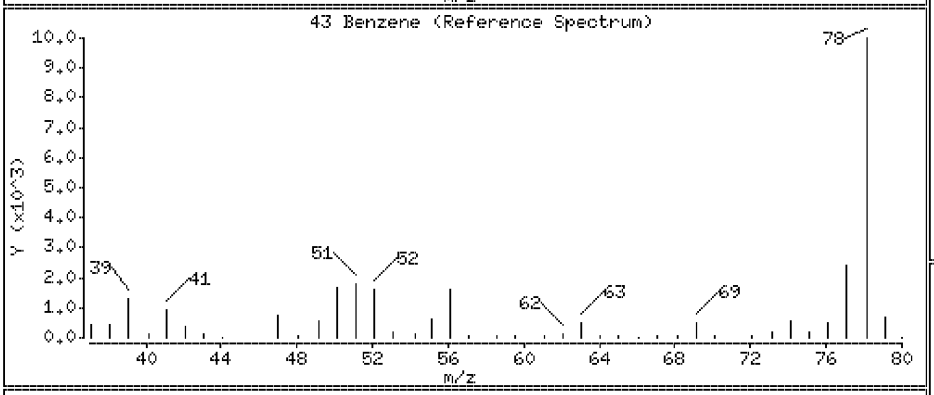
Concentration: 0.466 ppbv

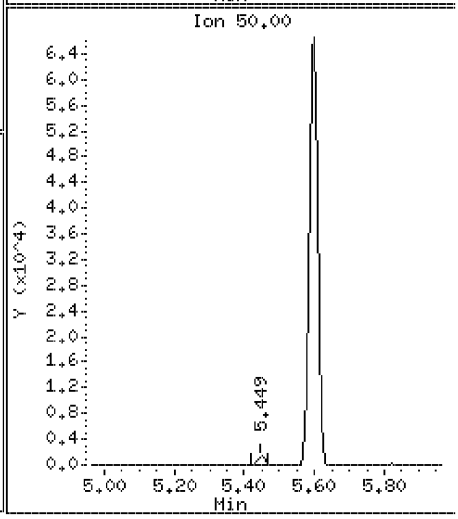


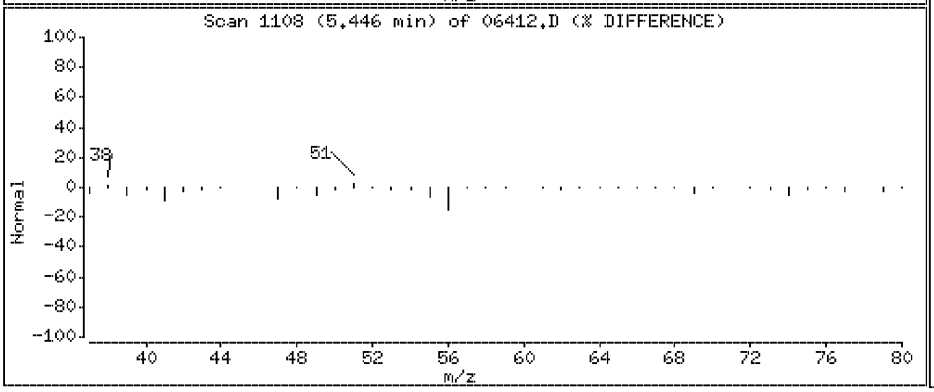












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

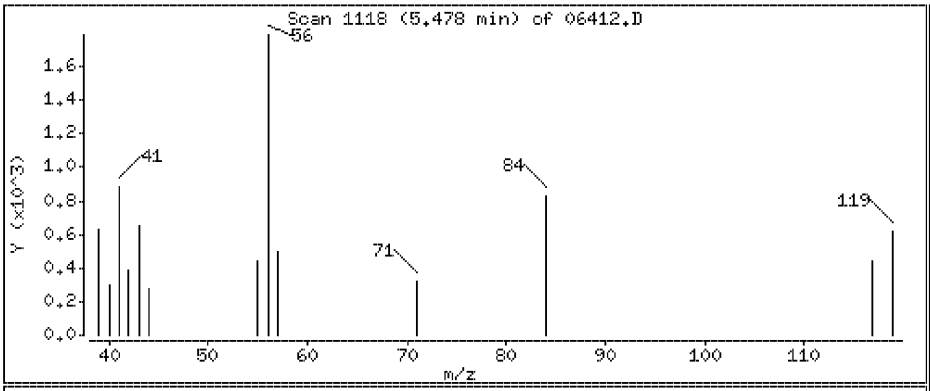
Operator: NCK

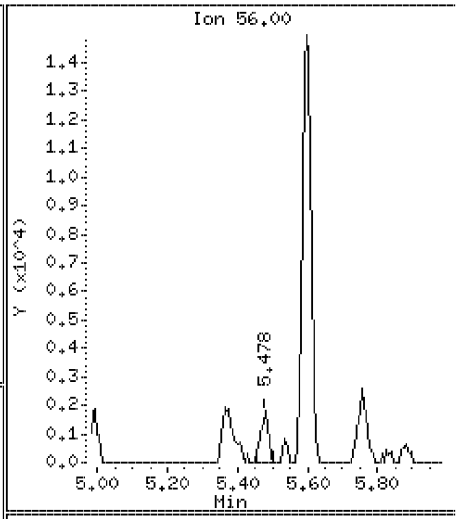
Column phase: J&W DB-5

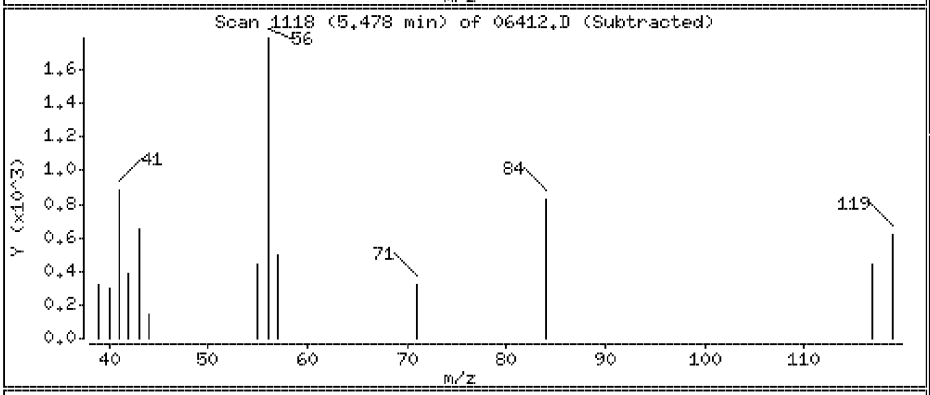
Column diameter: 0.32

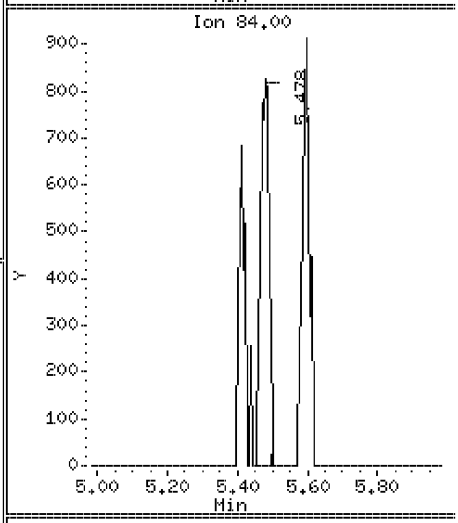
45 Cyclohexane

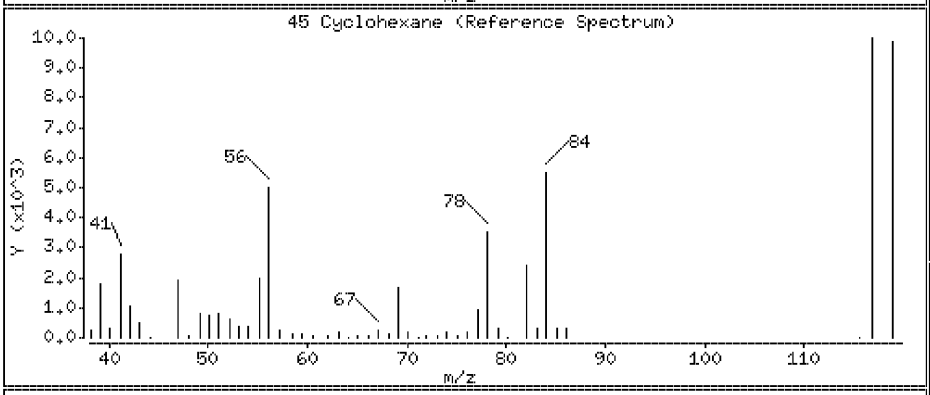
Concentration: 0.207 ppbv

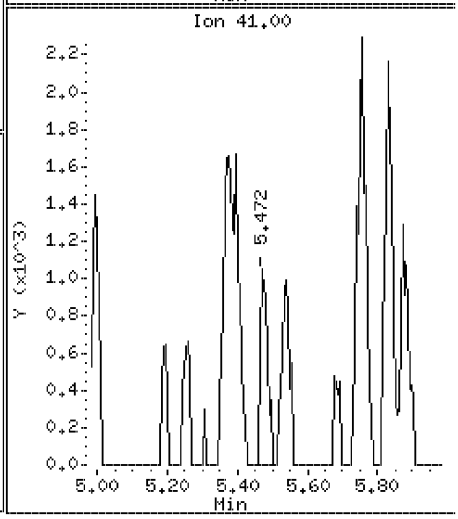


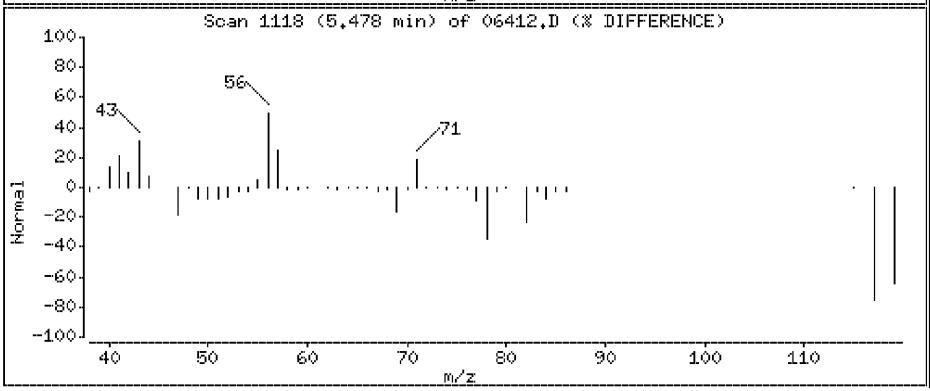












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

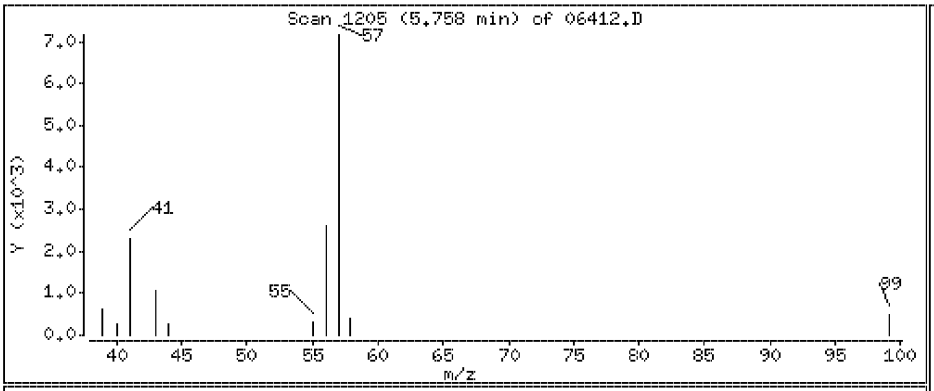
Operator: NCK

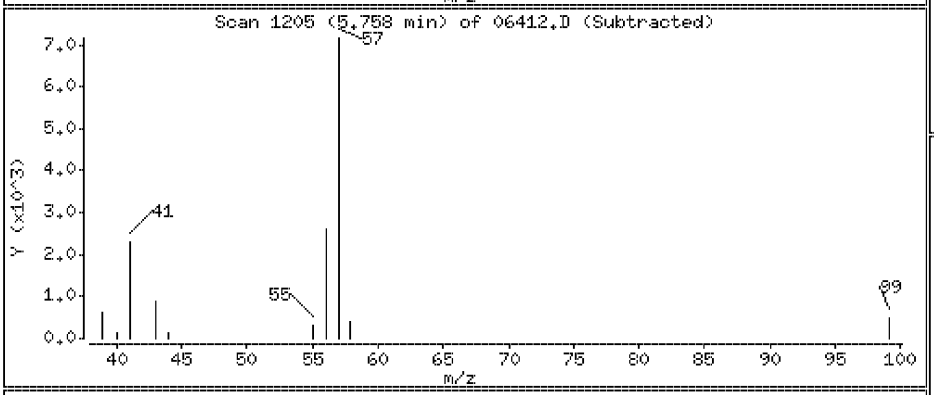
Column phase: J&W DB-5

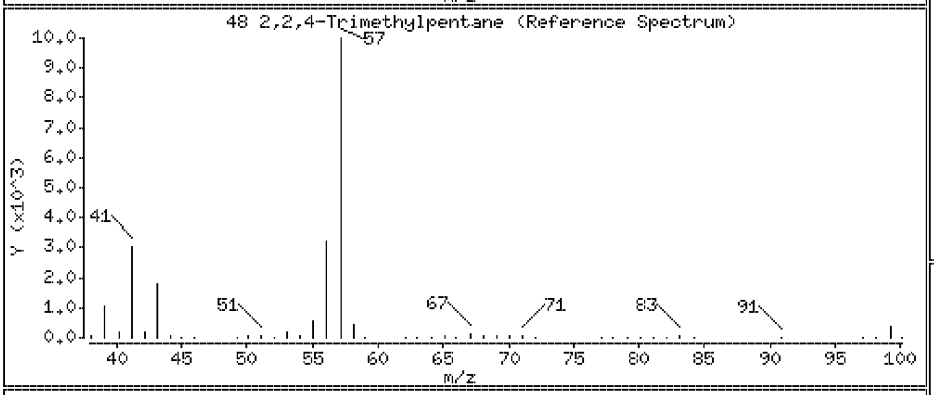
Column diameter: 0.32

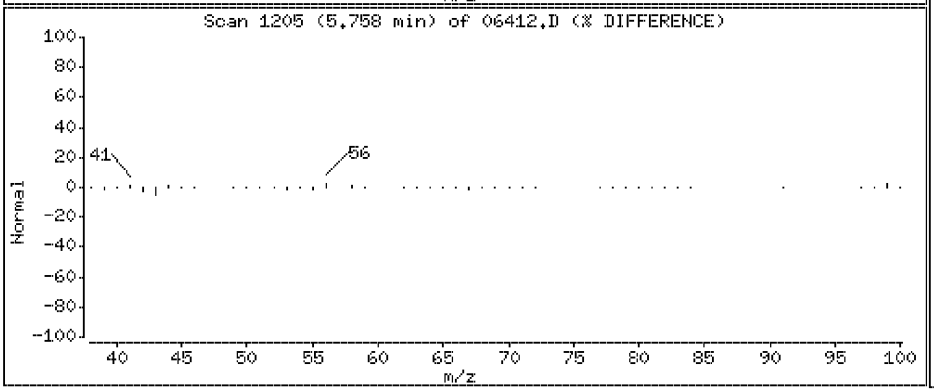
48 2,2,4-Trimethylpentane

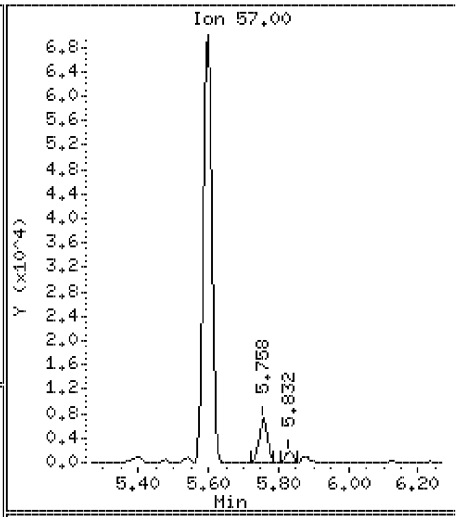
Concentration: 0.298 ppbv

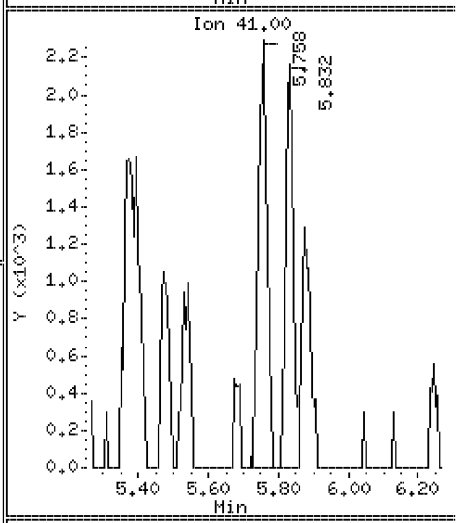


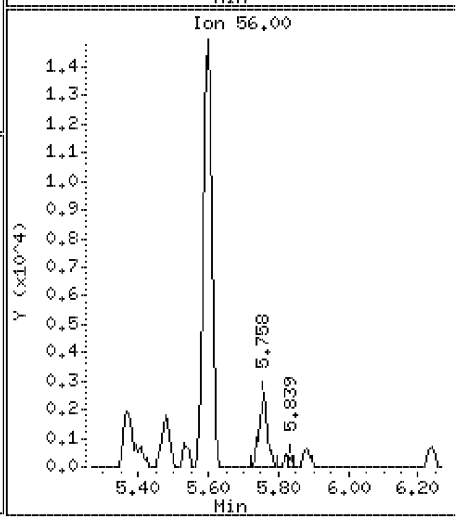












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

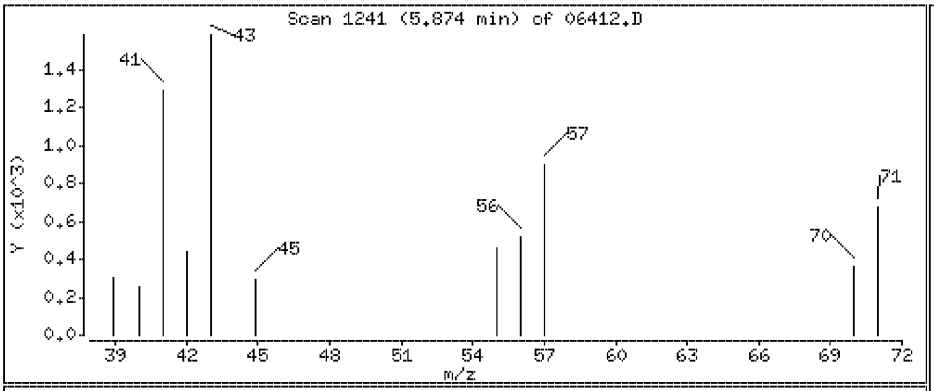
Operator: NCK

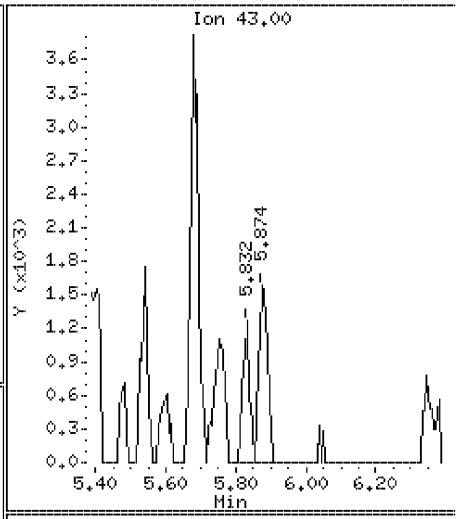
Column phase: J&W DB-5

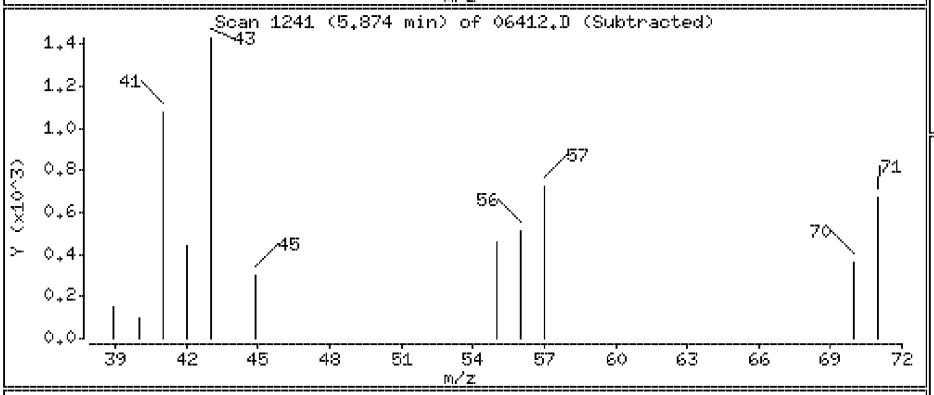
Column diameter: 0.32

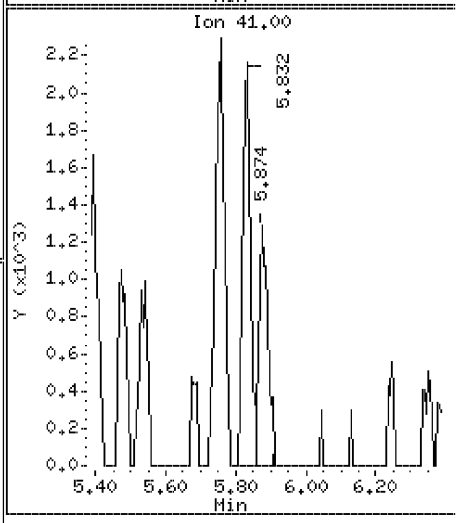
49 Heptane

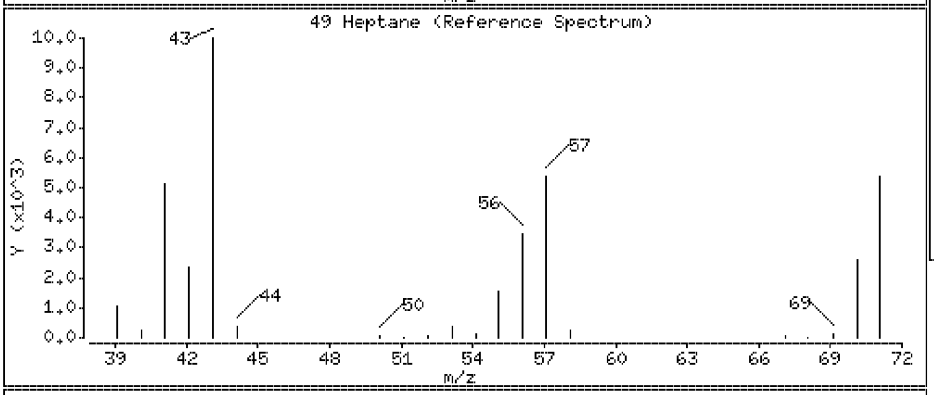
Concentration: 0.191 ppbv

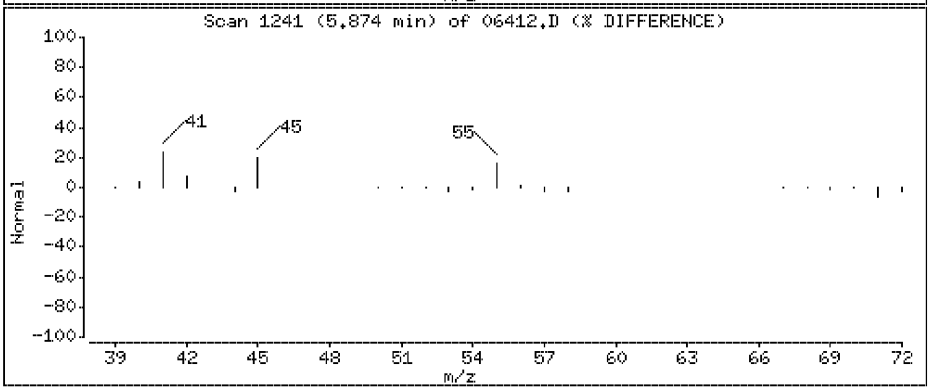












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

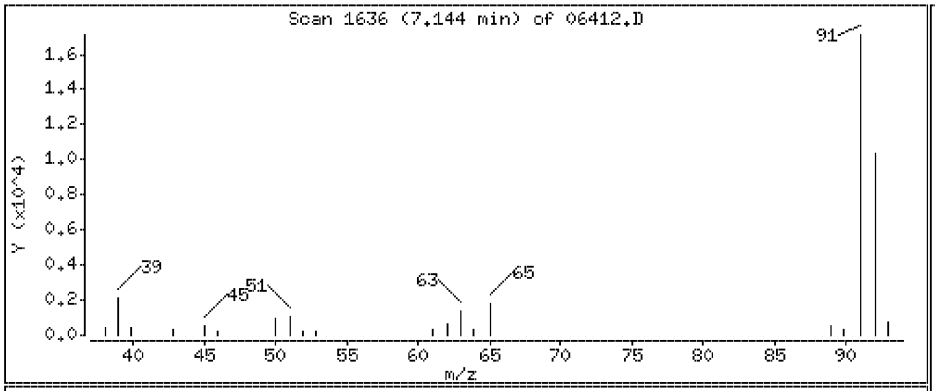
Operator: NCK

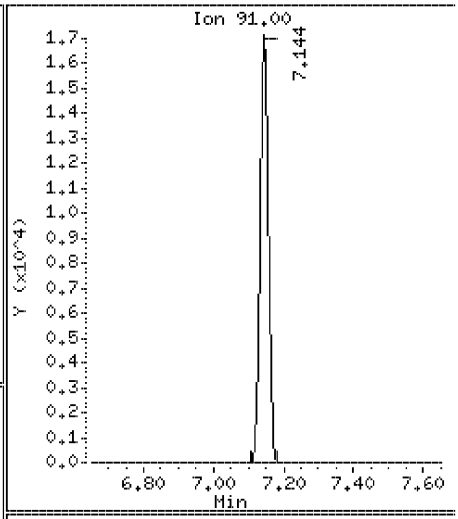
Column phase: J&W DB-5

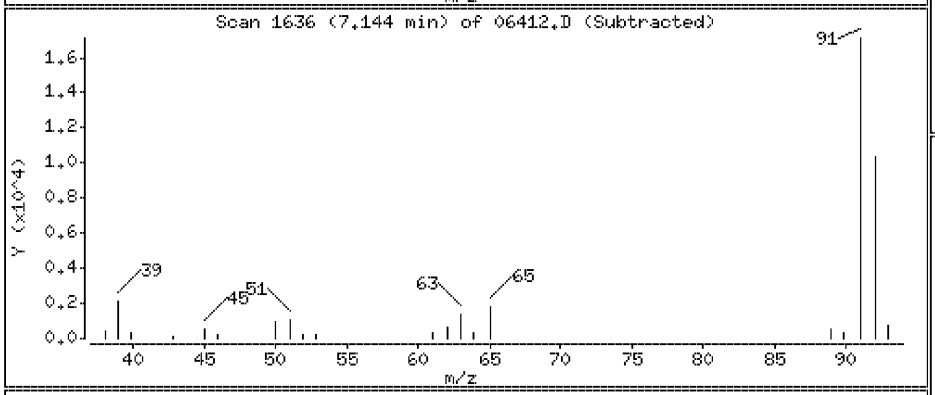
Column diameter: 0.32

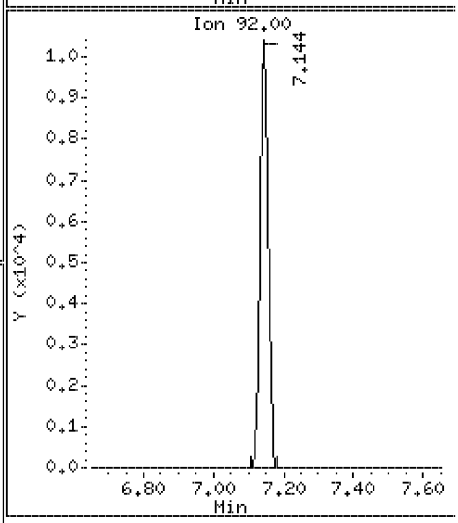
61 Toluene

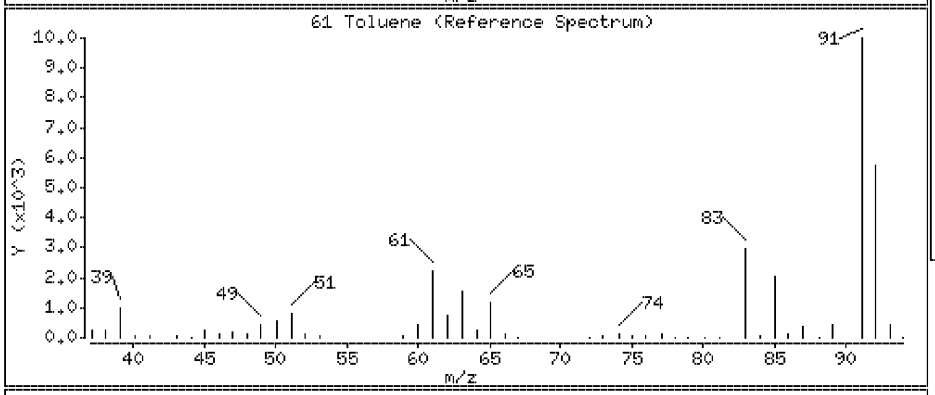
Concentration: 0.864 ppbv

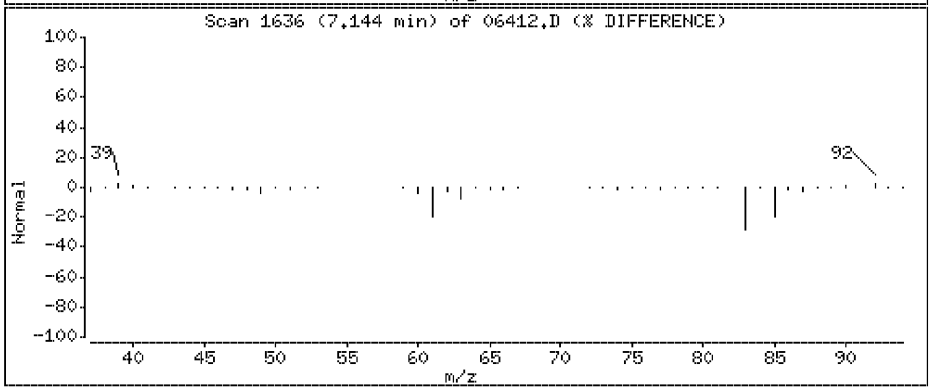












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

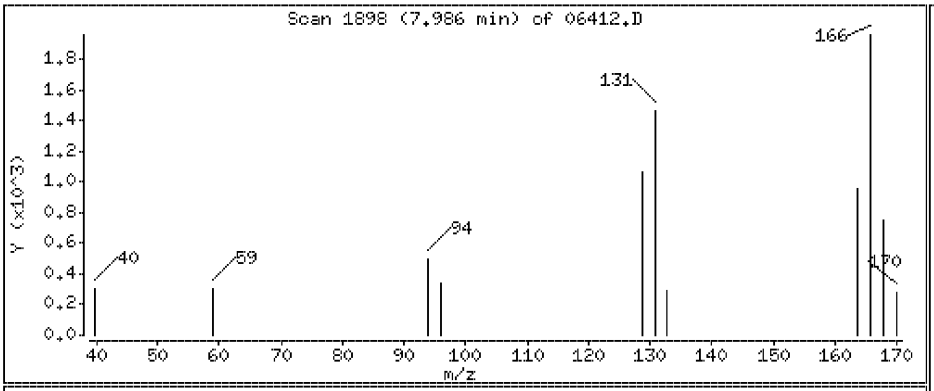
Operator: NCK

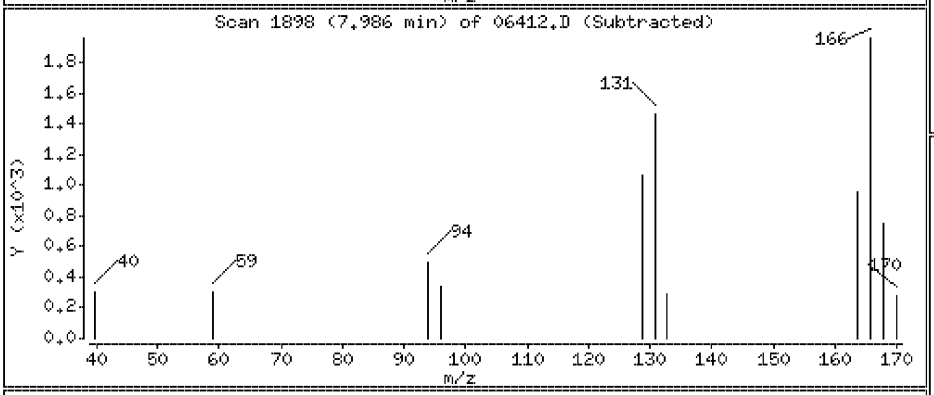
Column phase: J&W DB-5

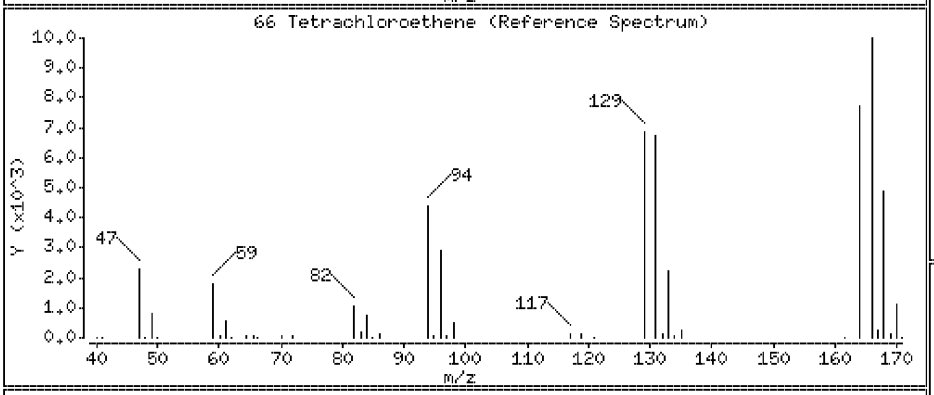
Column diameter: 0.32

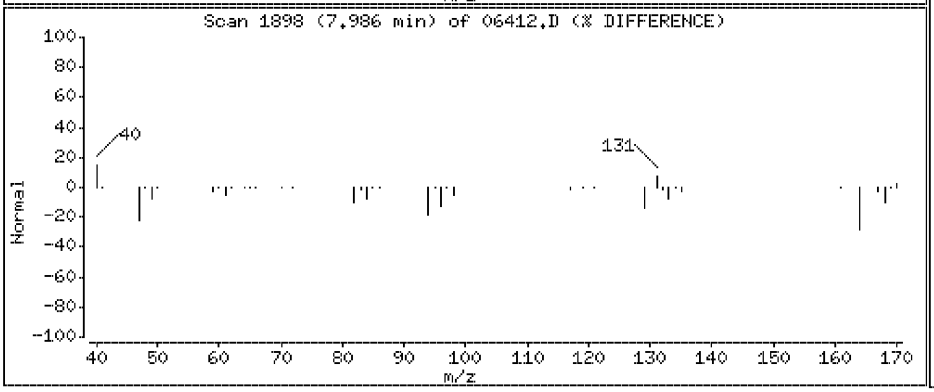
66 Tetrachloroethene

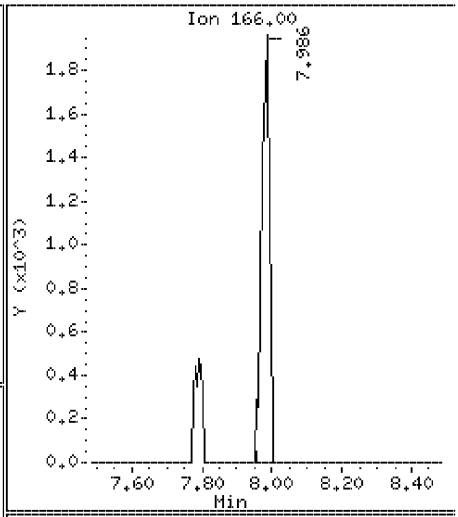
Concentration: 0.166 ppbv

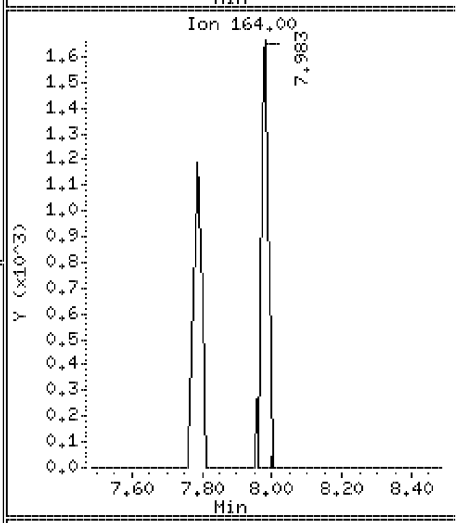


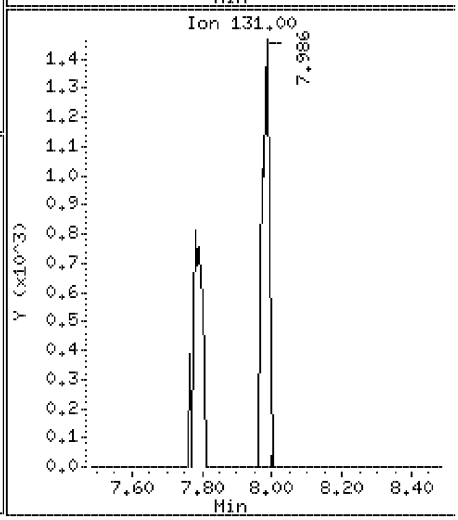












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

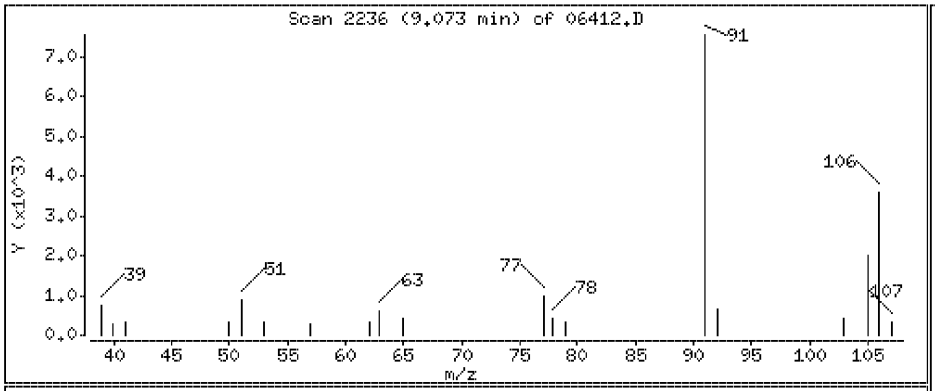
Operator: NCK

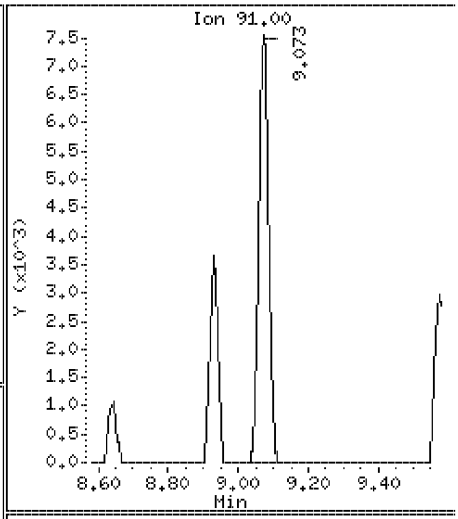
Column phase: J&W DB-5

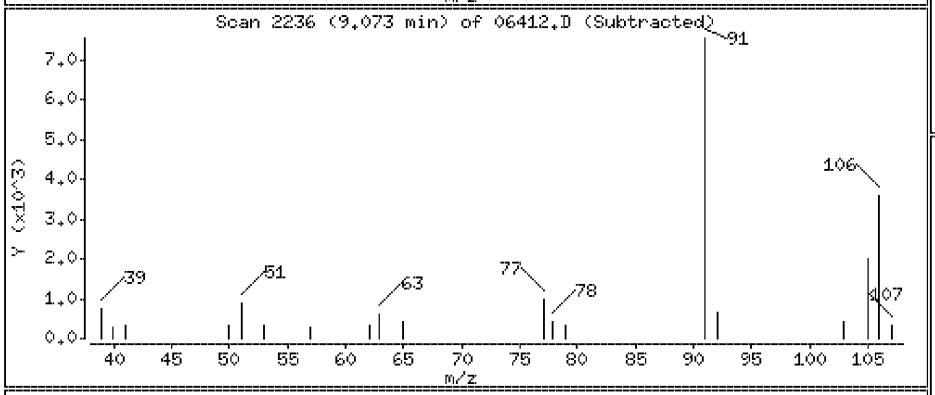
Column diameter: 0.32

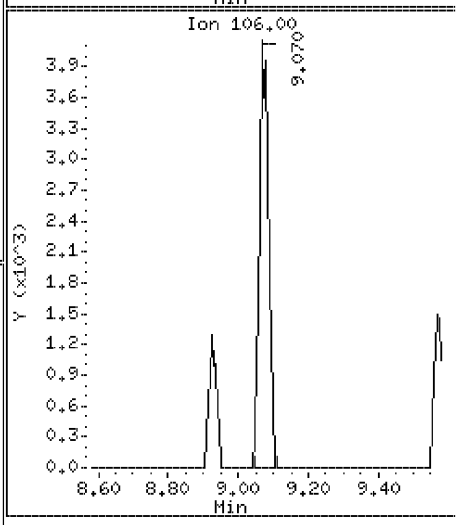
70 m&p-Xylene

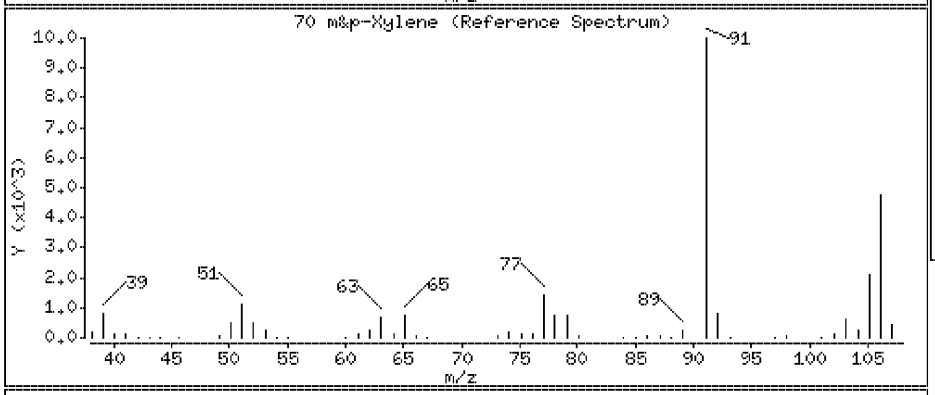
Concentration: 0.491 ppbv

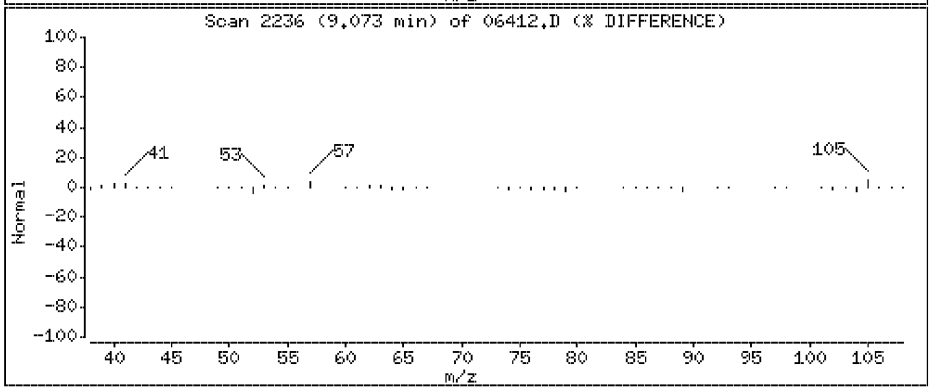












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

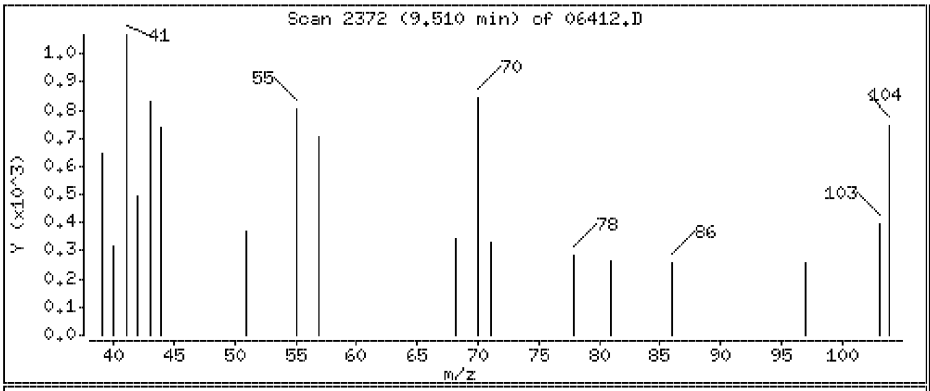
Operator: NCK

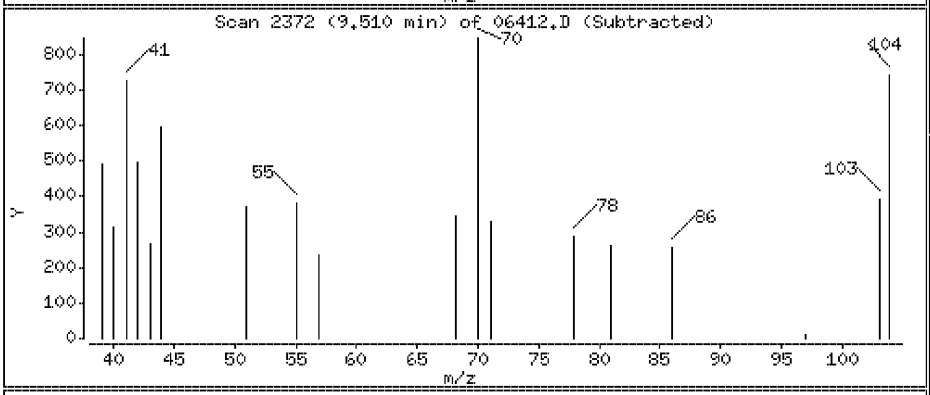
Column phase: J&W DB-5

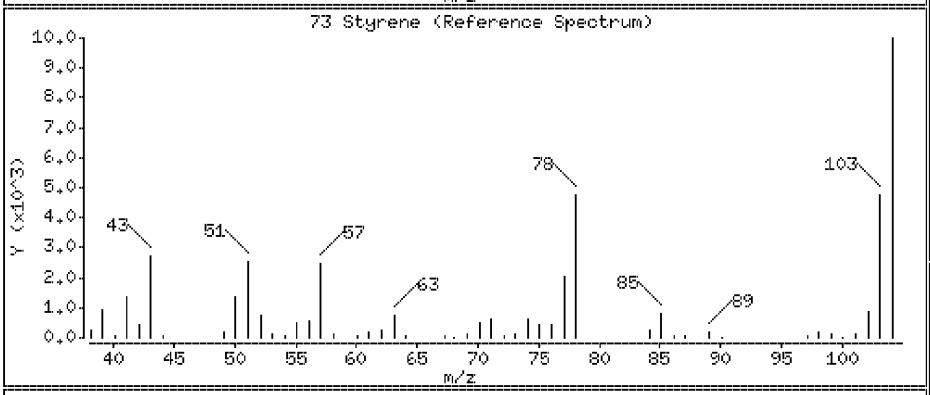
Column diameter: 0.32

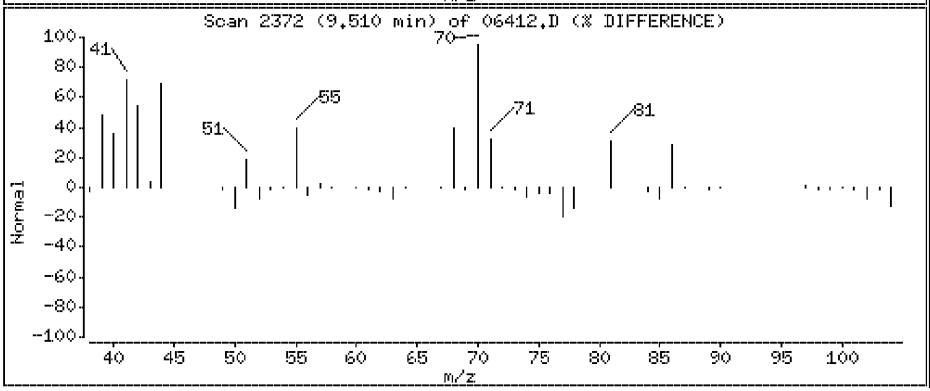
73 Styrene

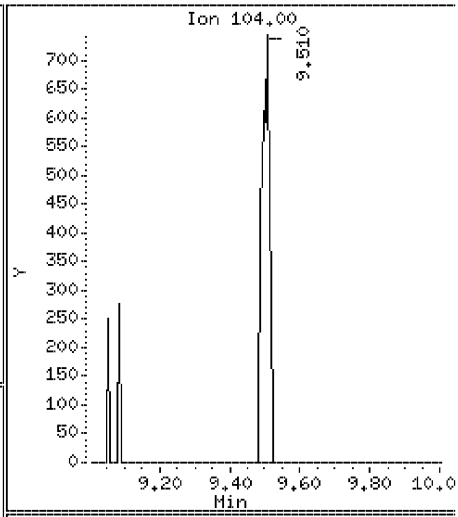
Concentration: 0.186 ppbv

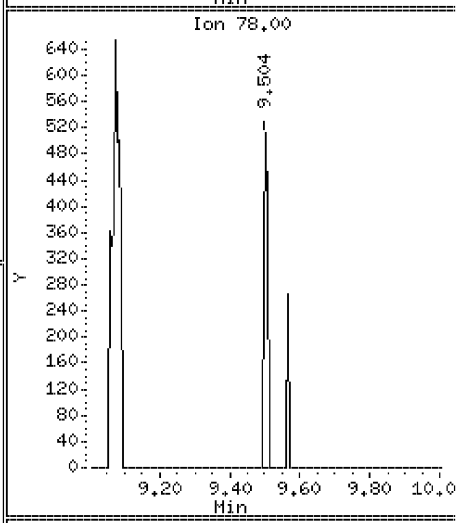


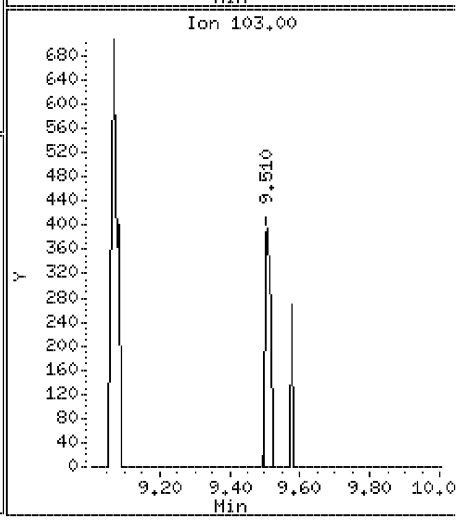












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

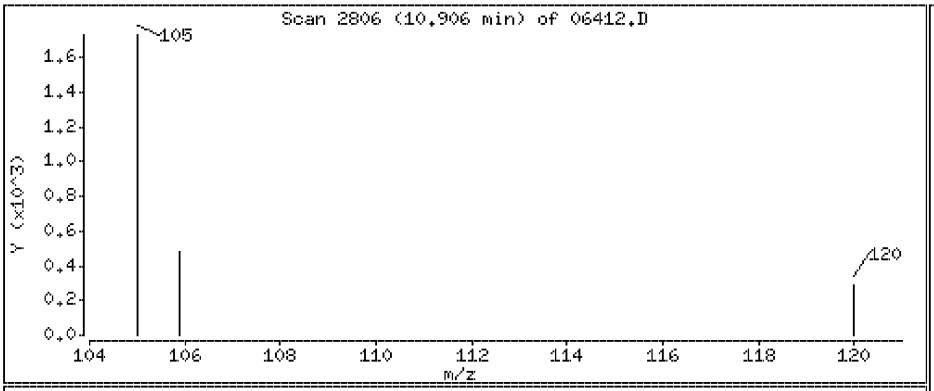
Operator: NCK

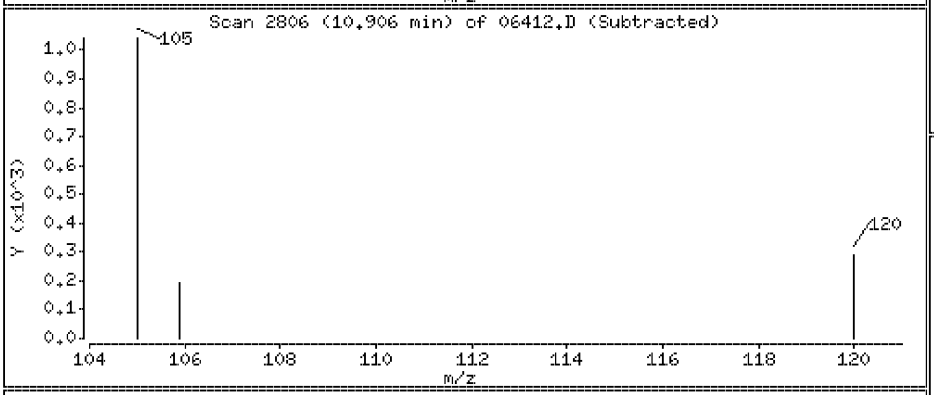
Column phase: J&W DB-5

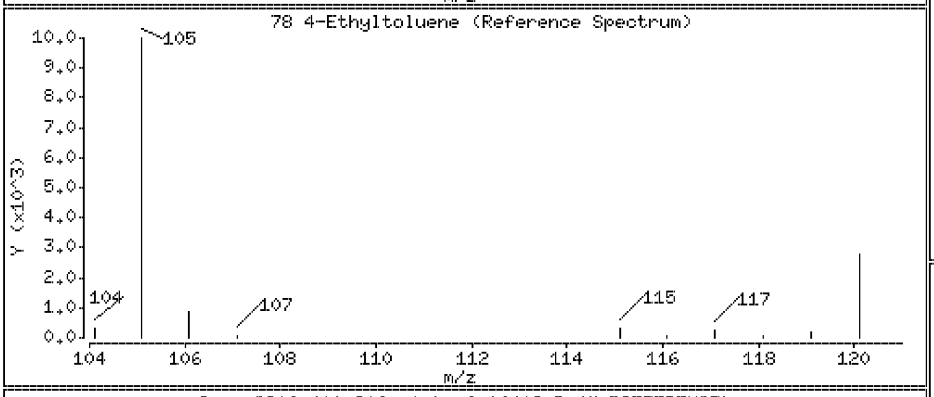
Column diameter: 0.32

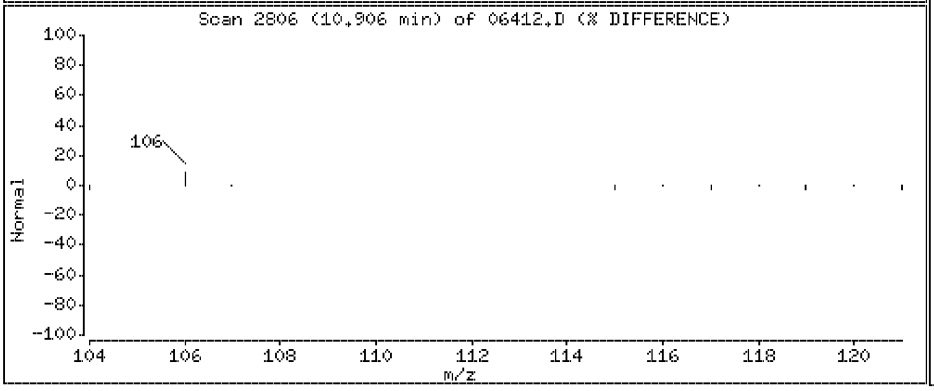
78 4-Ethyltoluene

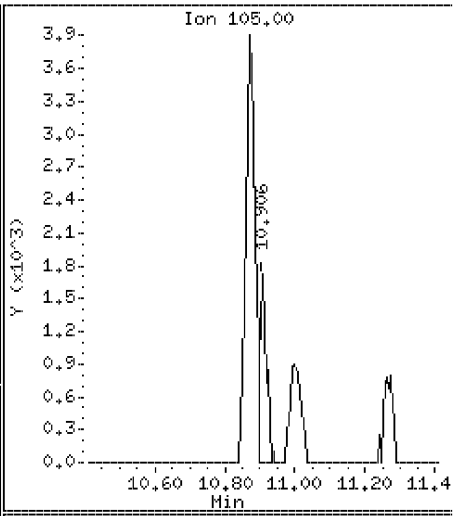
Concentration: 0.234 ppbv

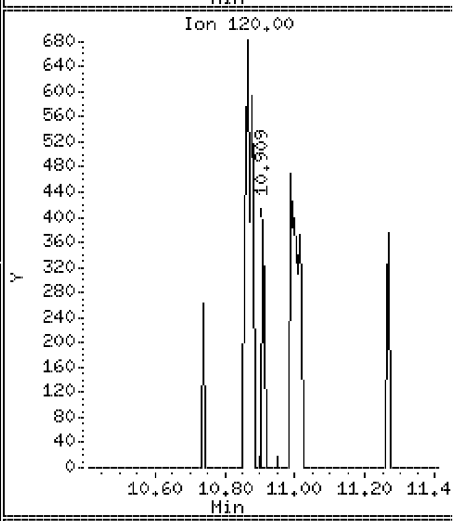


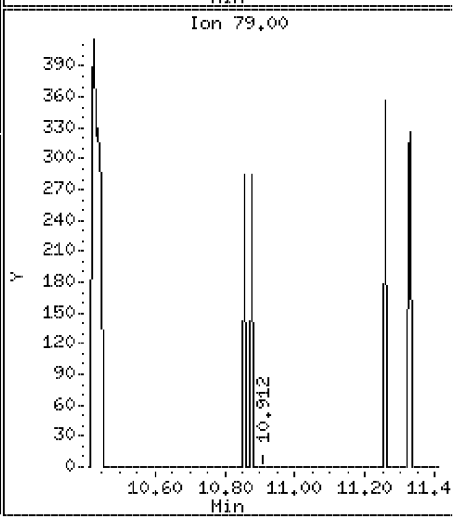












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

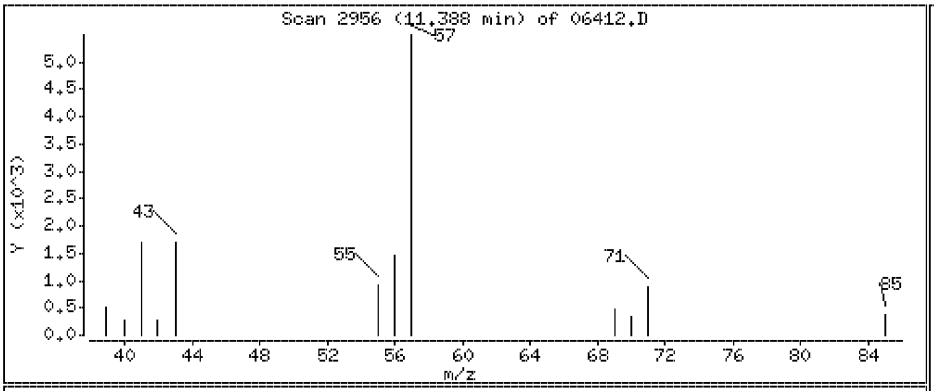
Operator: NCK

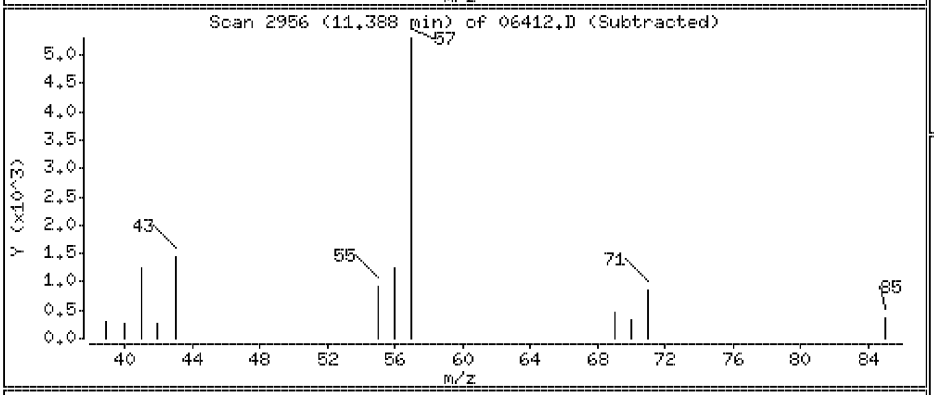
Column phase: J&W DB-5

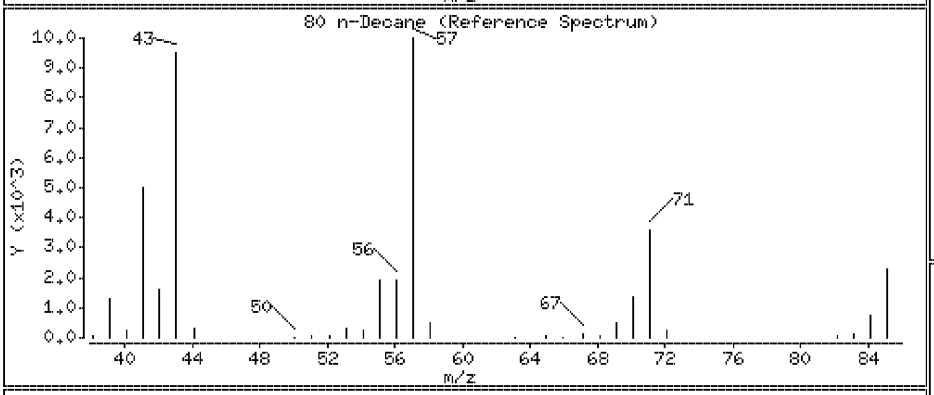
Column diameter: 0.32

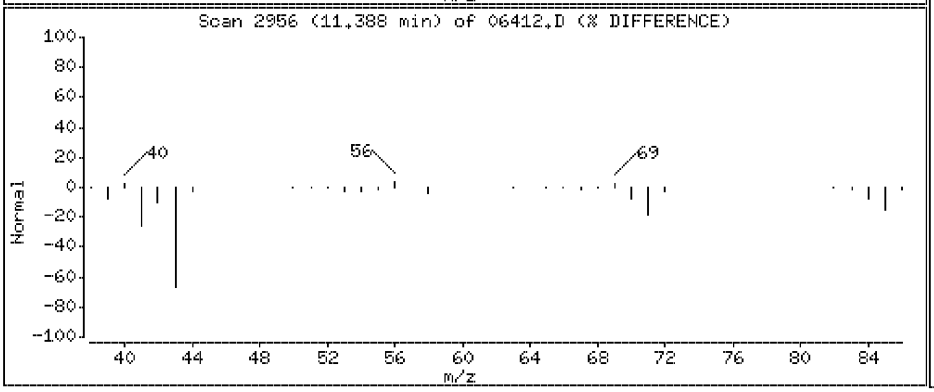
80 n-Decane

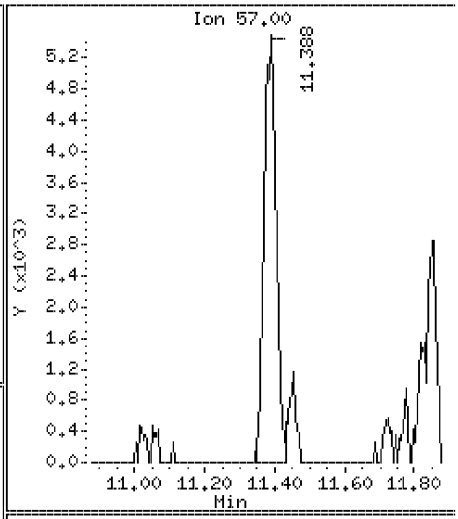
Concentration: 1.06 ppbv

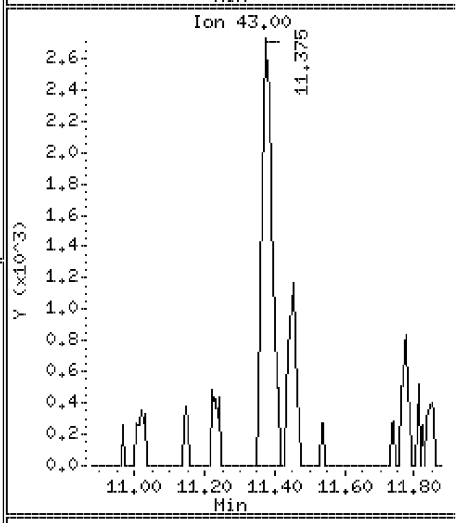


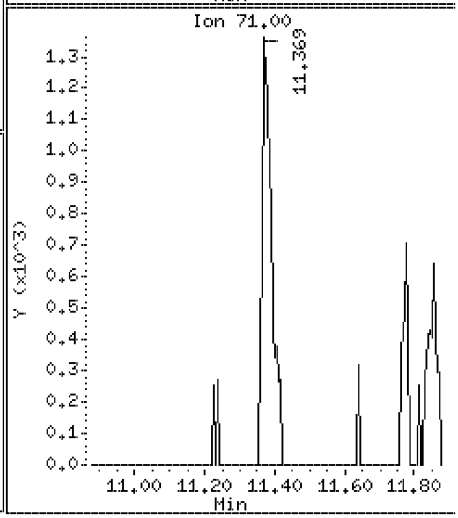












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06412.D

Date : 05-MAR-2017 14:45

Client ID:

Instrument: 10airB.i

Sample Info:

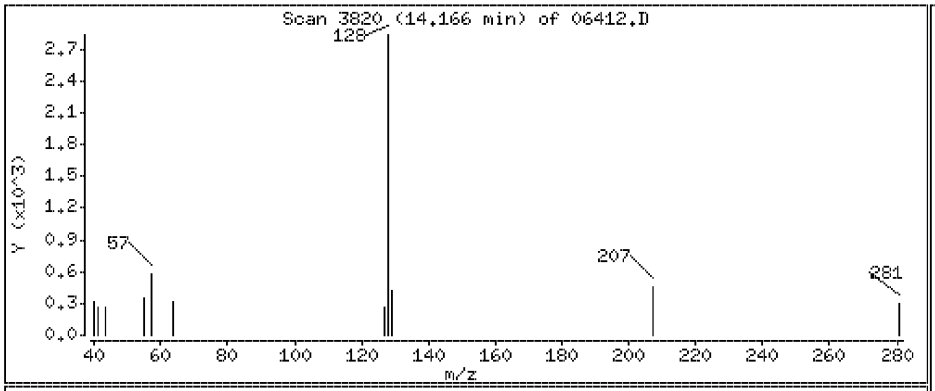
Operator: NCK

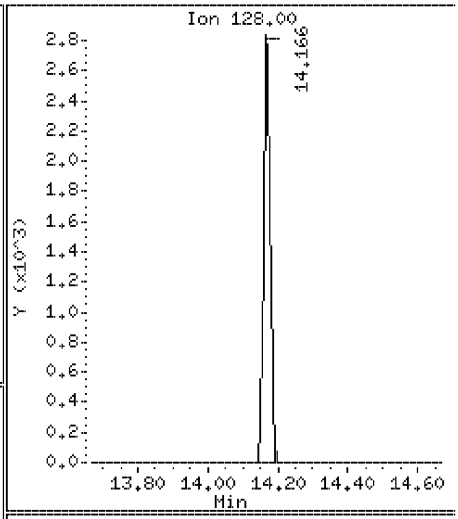
Column phase: J&W DB-5

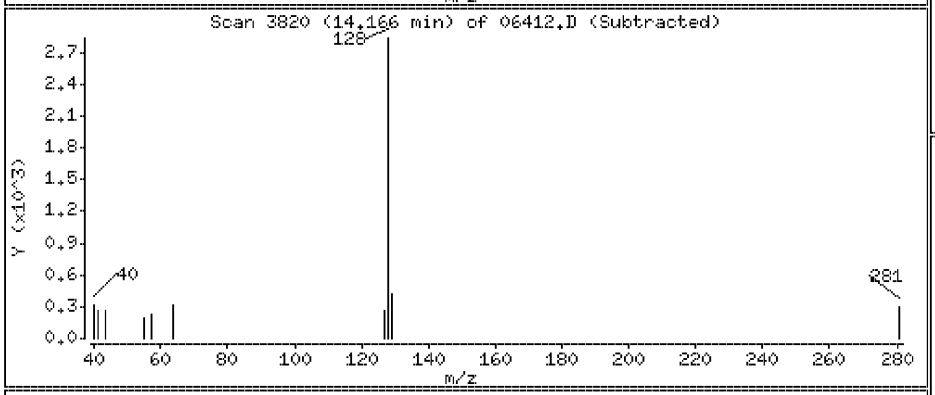
Column diameter: 0.32

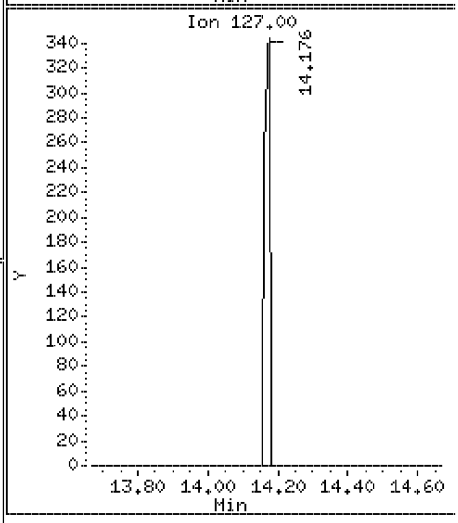
94 Naphthalene

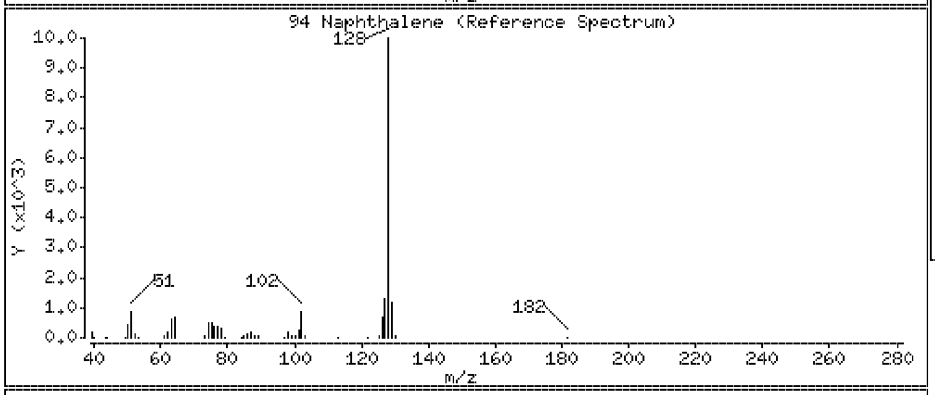
Concentration: 0.787 ppbv

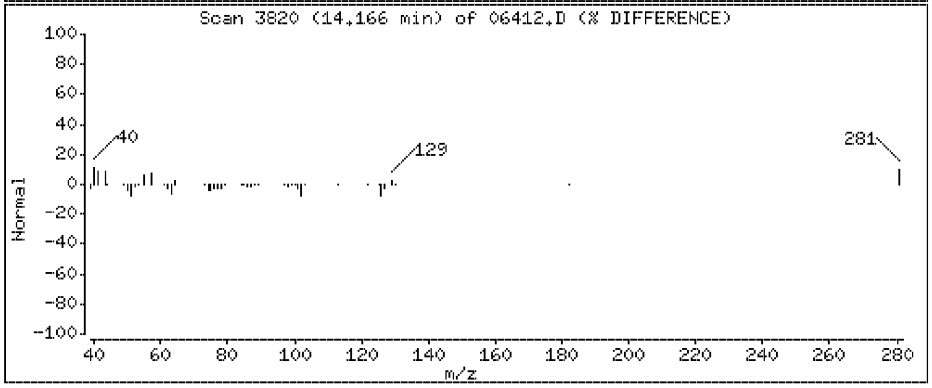






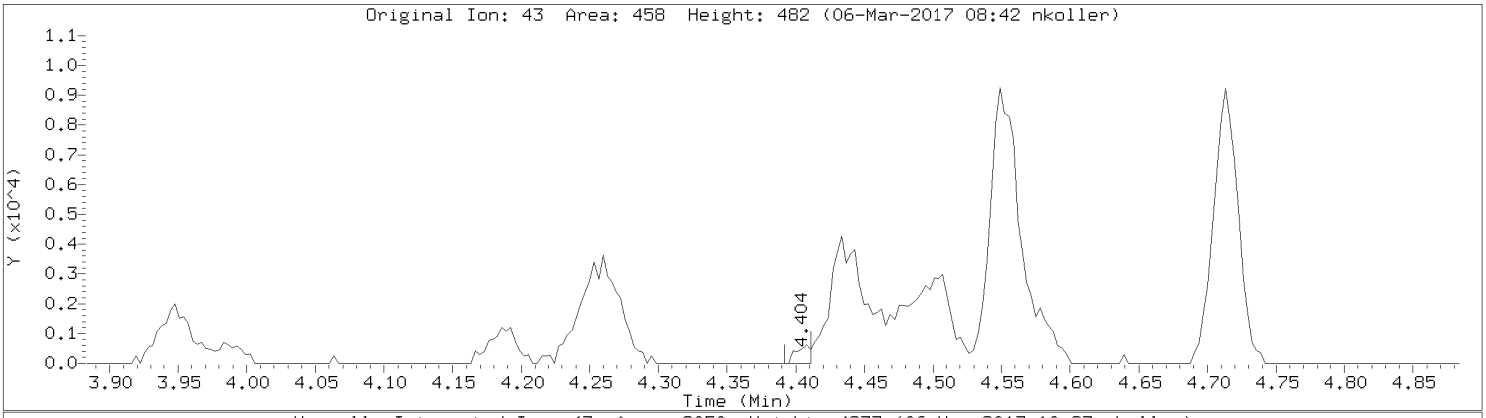


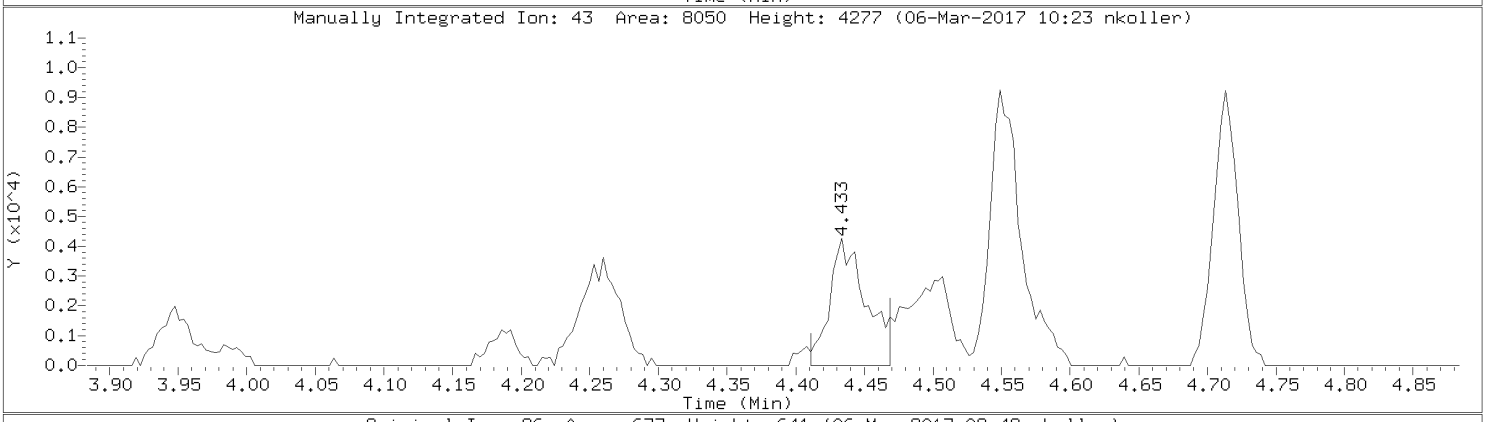


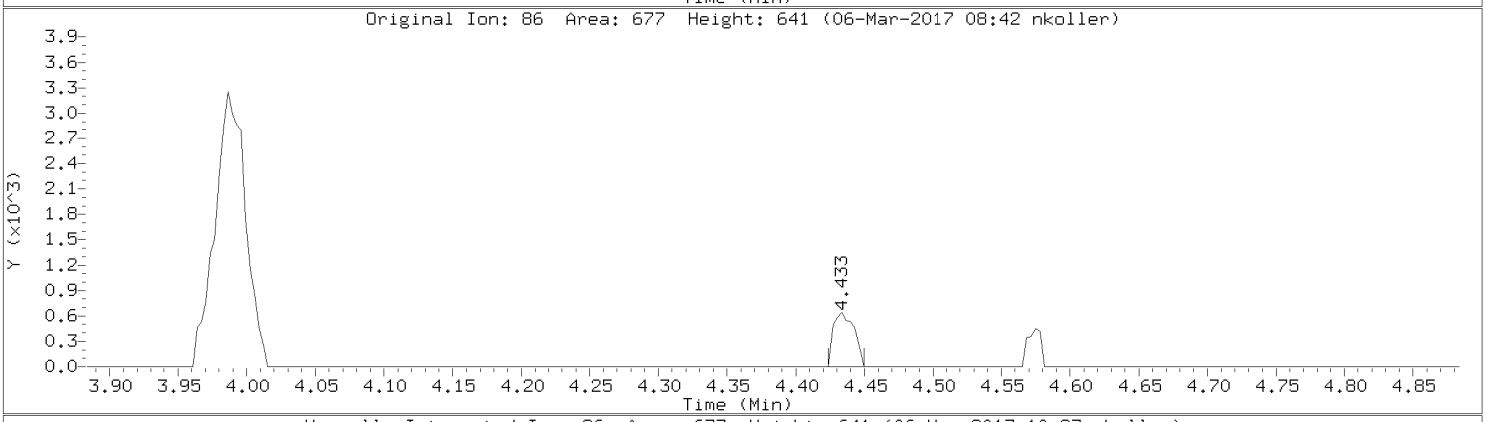


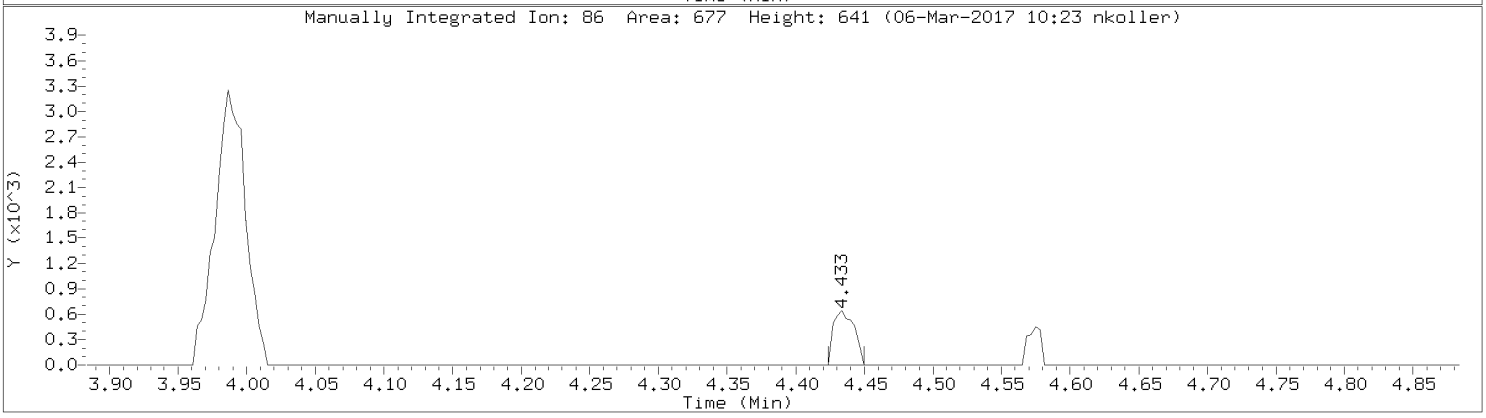
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06412.D
Injection Date: 05-MAR-2017 14:45
Instrument: 10airB.i
Lab Sample ID: 10379458012

Compound: Vinyl Acetate
CAS Number: 108-05-4



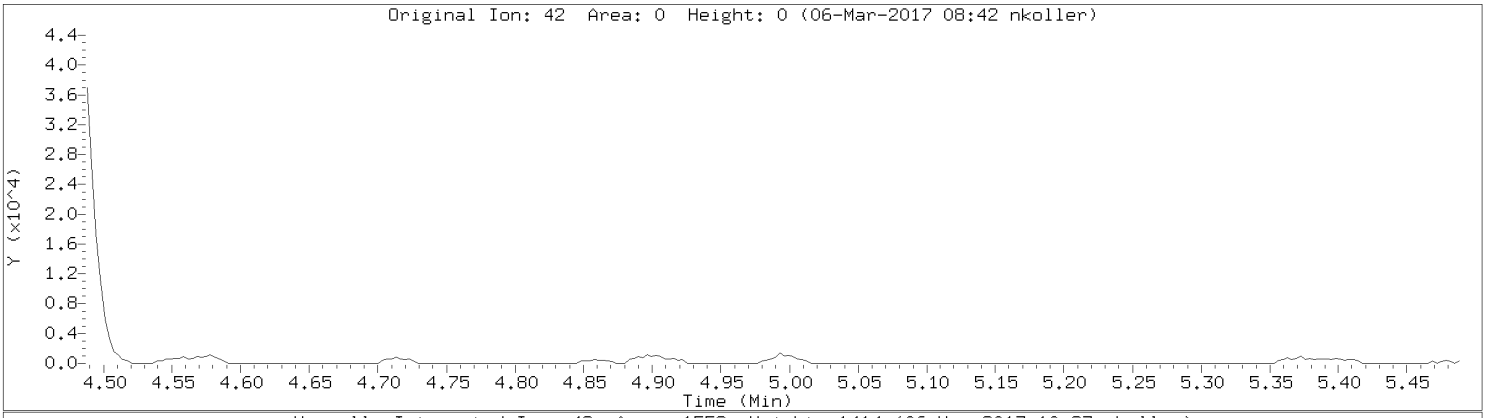


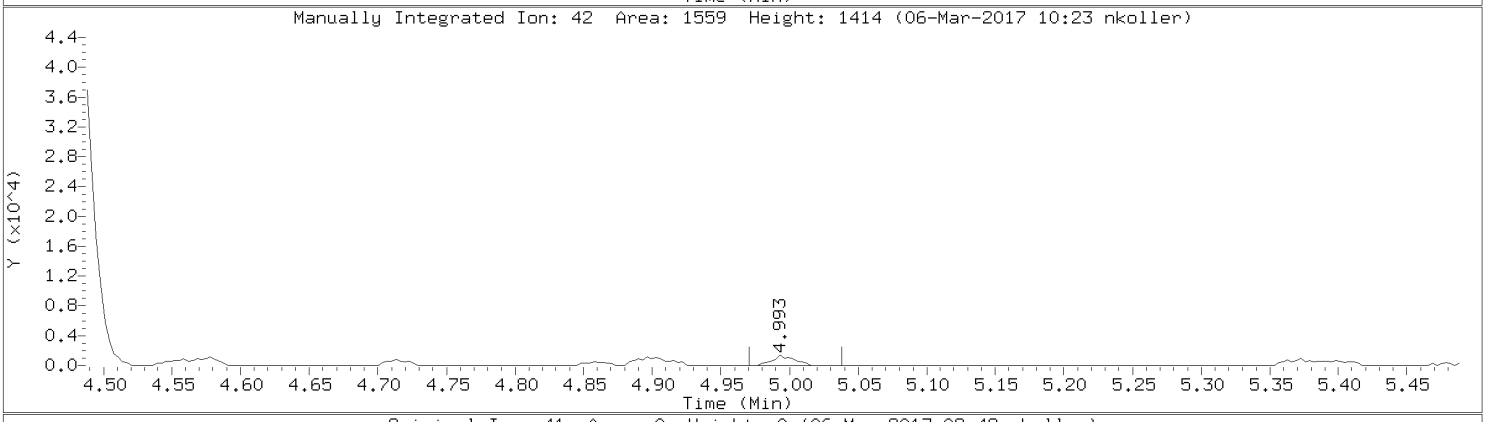


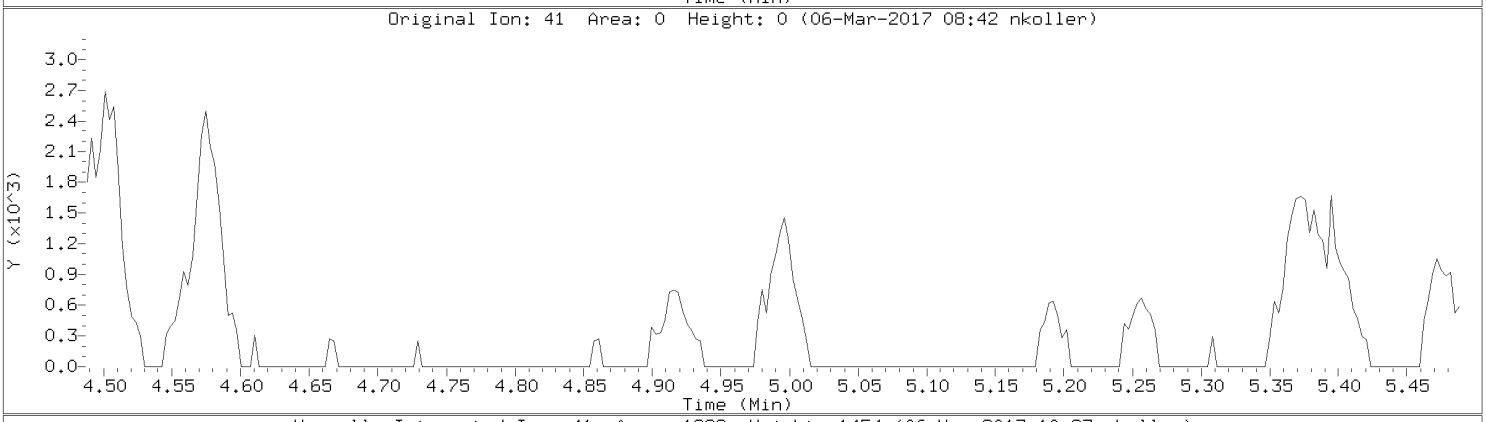


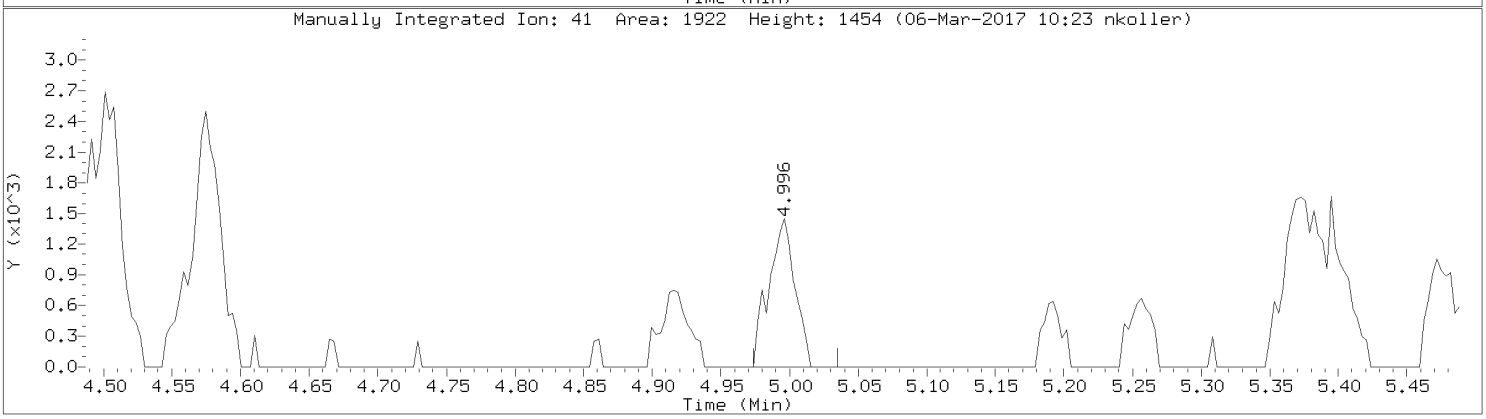
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06412.D
Injection Date: 05-MAR-2017 14:45
Instrument: 10airB.i
Lab Sample ID: 10379458012

Compound: Tetrahydrofuran
CAS Number: 109-99-9

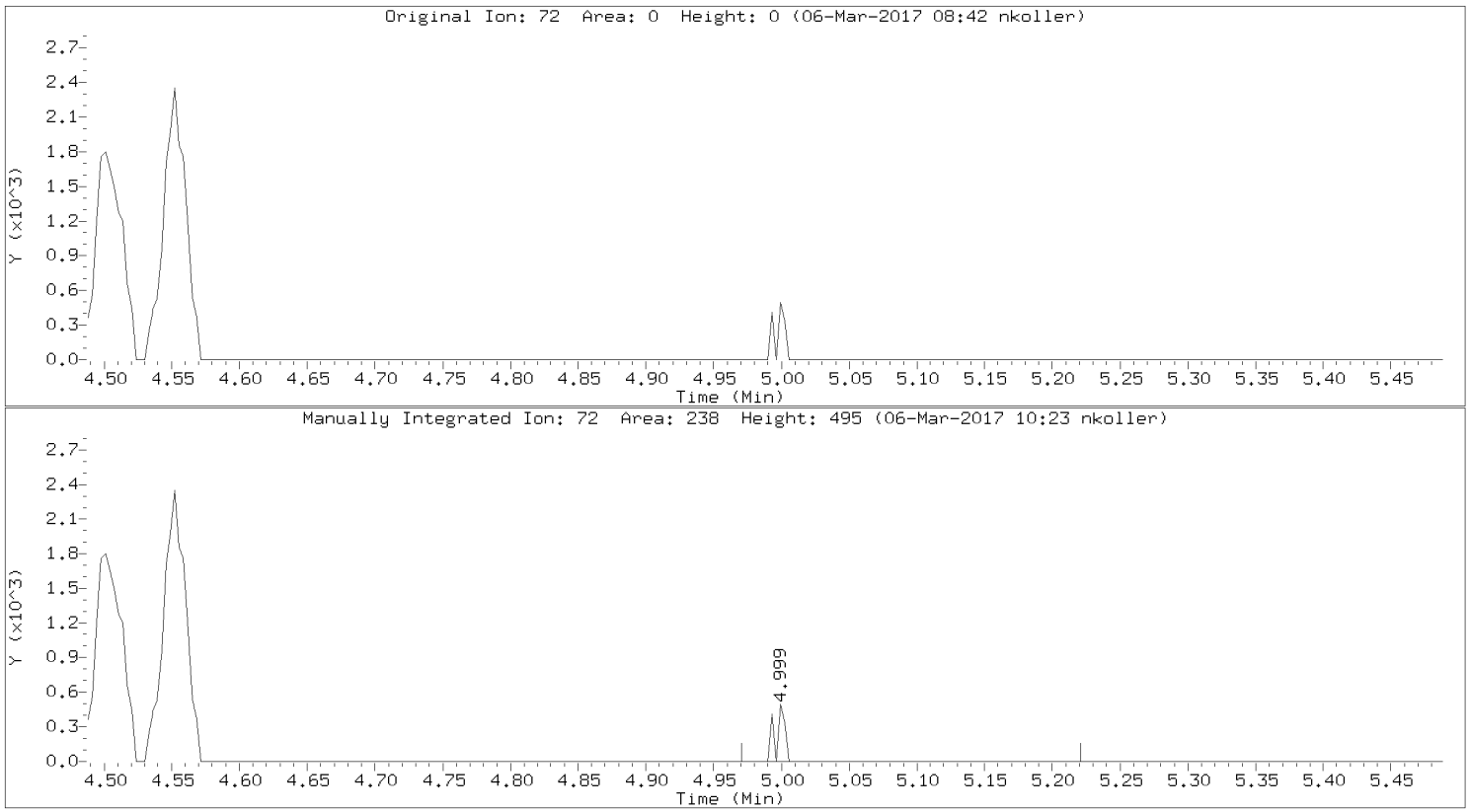






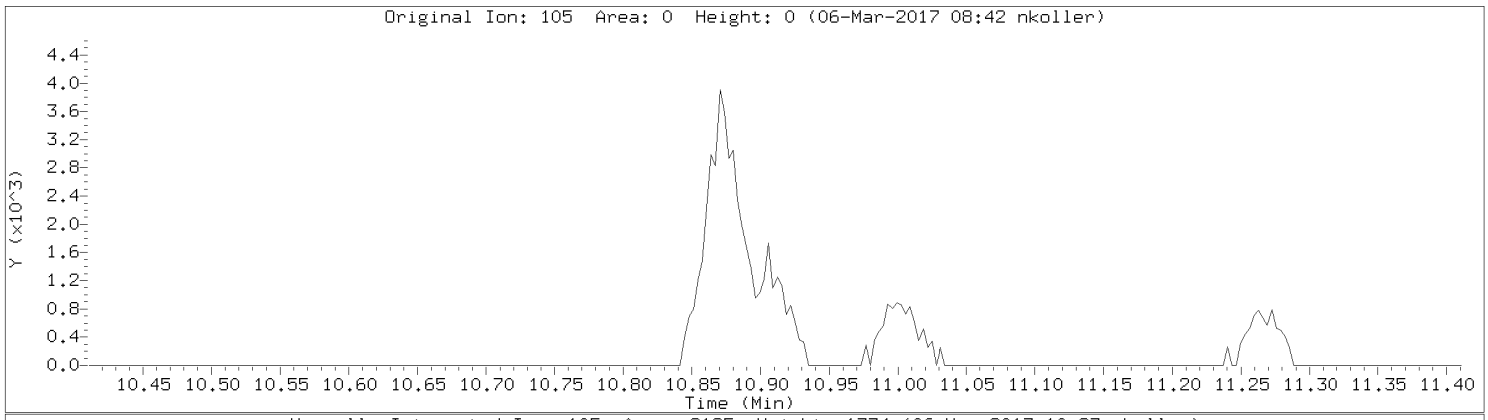


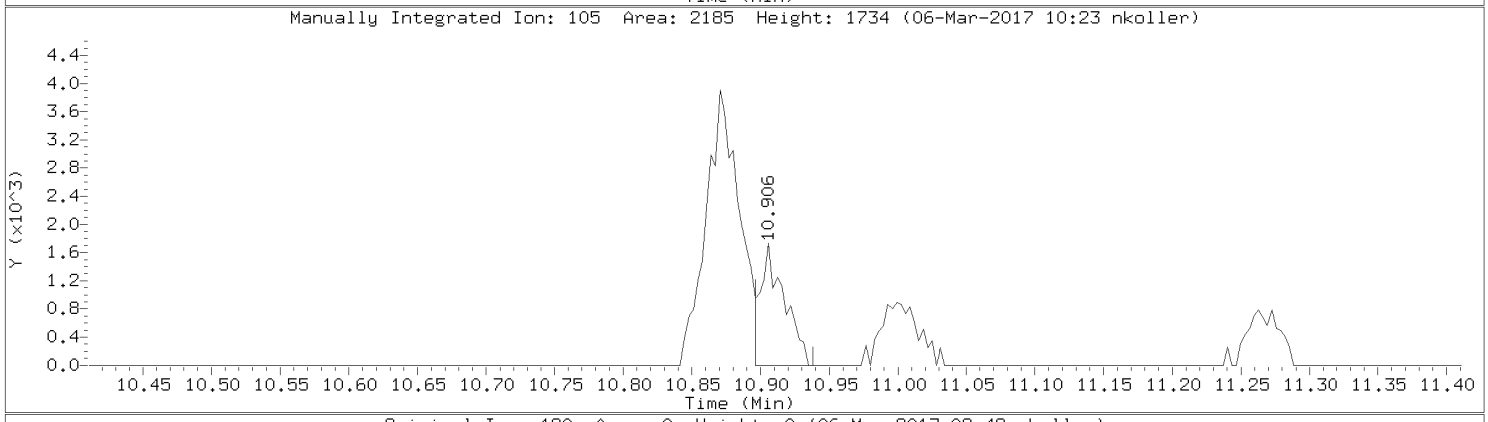
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06412.D
Injection Date: 05-MAR-2017 14:45
Instrument: 10airB.i
Lab Sample ID: 10379458012

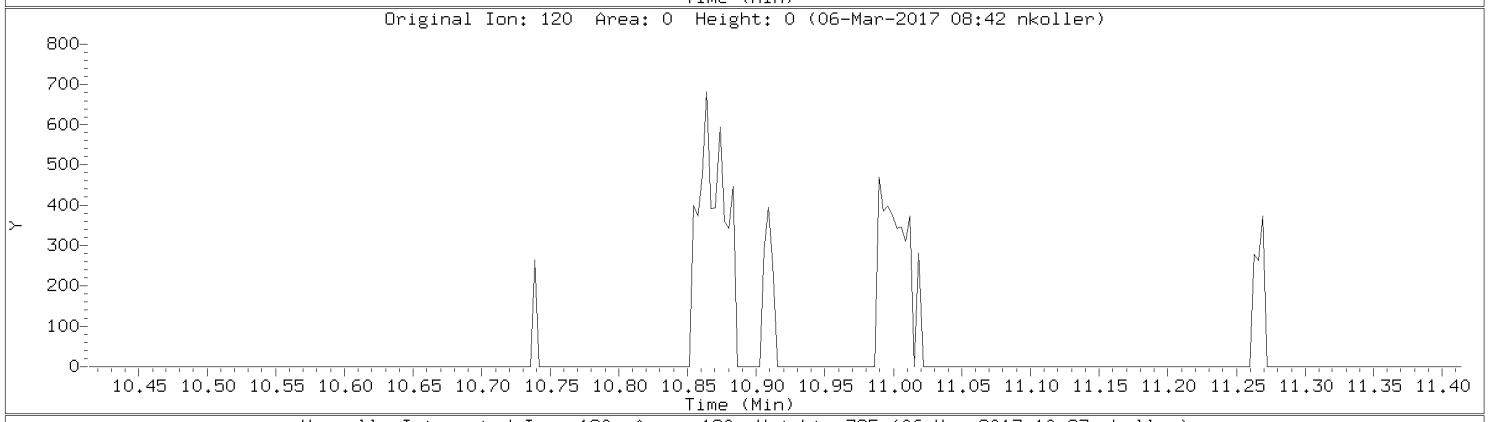


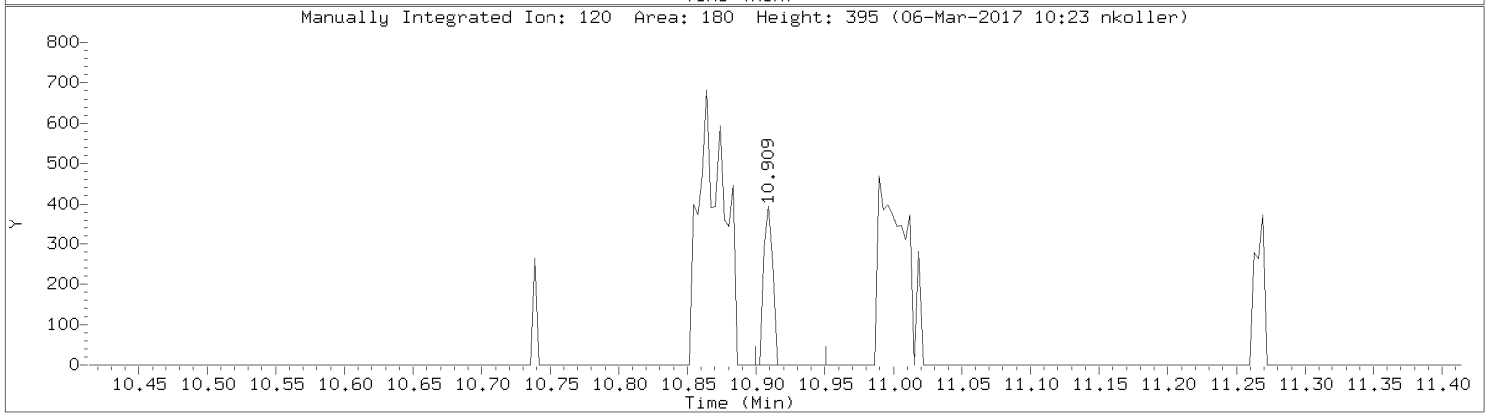
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06412.D
Injection Date: 05-MAR-2017 14:45
Instrument: 10airB.i
Lab Sample ID: 10379458012

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

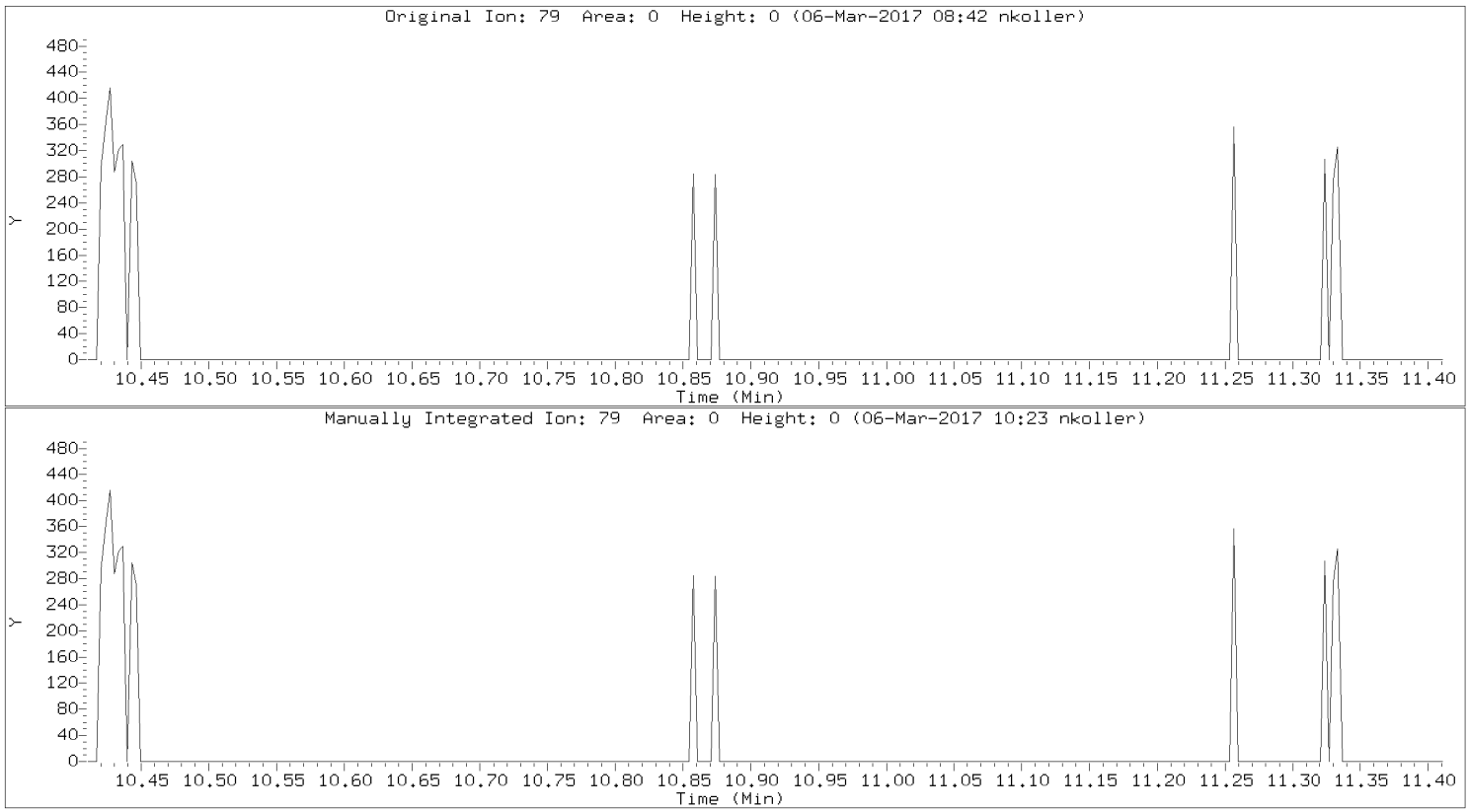








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06412.D
Injection Date: 05-MAR-2017 14:45
Instrument: 10airB.i
Lab Sample ID: 10379458012



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-12_20170215 **Lab ID: 10379458013** Collected: 02/15/17 16:21 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.1**	ug/m3	4.4	1.5	1.83		03/05/17 15:16	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/05/17 15:16	107-05-1	
Benzene	**0.53J**	ug/m3	0.59	0.22	1.83		03/05/17 15:16	71-43-2	
Bromodichloromethane	**2.1J**	ug/m3	2.5	0.36	1.83		03/05/17 15:16	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/05/17 15:16	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/05/17 15:16	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/05/17 15:16	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/05/17 15:16	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/05/17 15:16	75-15-0	
Carbon tetrachloride	**0.68J**	ug/m3	1.2	0.35	1.83		03/05/17 15:16	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/05/17 15:16	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/05/17 15:16	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/05/17 15:16	75-00-3	
Chloroform	**98.7**	ug/m3	0.91	0.35	1.83		03/05/17 15:16	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/05/17 15:16	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/05/17 15:16	76-15-3	CL
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/05/17 15:16	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/05/17 15:16	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/05/17 15:16	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/05/17 15:16	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/05/17 15:16	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/05/17 15:16	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/05/17 15:16	106-46-7	
Dichlorodifluoromethane	**<0.88**	ug/m3	1.8	0.88	1.83		03/05/17 15:16	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/05/17 15:16	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/05/17 15:16	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/05/17 15:16	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/05/17 15:16	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/05/17 15:16	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/05/17 15:16	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/05/17 15:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/05/17 15:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/05/17 15:16	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/05/17 15:16	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/05/17 15:16	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/05/17 15:16	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/05/17 15:16	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/05/17 15:16	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.65	1.83		03/05/17 15:16	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/05/17 15:16	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/05/17 15:16	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/05/17 15:16	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/05/17 15:16	108-87-2	
Methylene Chloride	**5.2J**	ug/m3	6.5	0.99	1.83		03/05/17 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/05/17 15:16	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/05/17 15:16	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D
Report Date: 07-Mar-2017 15:12

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06413.D
Lab Smp Id: 10379458013
Inj Date : 05-MAR-2017 15:16
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 13
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.830	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						(D)
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.542	(0.634)	14400	2.82067	5.16	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.574	3.578	(0.638)	19585	1.28115	2.34	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.648	3.655	(0.652)	4833	0.12688	0.232	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.722	3.713	(0.665)	65112	2.95362	5.41	
19	Isopropyl Alcohol	45	3.774	3.764	(0.674)	12653	0.56279	1.03	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D
Report Date: 07-Mar-2017 15:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.976	3.992	(0.710)	12465	0.80112	1.47	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.436	4.385	(0.792)	8665	0.41421	0.758(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.481	(0.800)	430793	9.74558	9.75	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.578	4.578	(0.817)	3706	0.16727	0.306(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.722	4.713	(0.843)	5533	0.19404	0.355(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.816	4.838	(0.860)	312742	10.8651	19.9	
	40 Tetrahydrofuran	42	5.012	4.989	(0.895)	3712	0.24127	0.442	
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.455	5.465	(0.974)	3960	0.08838	0.162	
	44 Carbon tetrachloride	117	5.471	5.484	(0.977)	1952	0.05768	0.106	
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1389391	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.986	(1.067)	9342	0.40018	0.732	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	6.073	6.082	(1.084)	5689	0.17199	0.315(H)	
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1187142	9.54645	9.55	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.147	7.153	(1.276)	12903	0.22994	0.421	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.571	7.584	(0.876)	4059	0.13091	0.240(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	21060	0.66905	1.22	
*	67 Chlorobenzene - d5	117	8.642	8.645	(1.000)	906502	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	9.500	9.468	(1.099)	3309	0.12259	0.224(Q)	
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D
Report Date: 07-Mar-2017 15:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.378	11.378	(2.032)	2743	0.31245	0.572(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.371)	495102	9.91471	9.91	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	Compound Not Detected.						(D)
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D
Report Date: 07-Mar-2017 15:12

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06413.D
Lab Smp Id: 10379458013
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

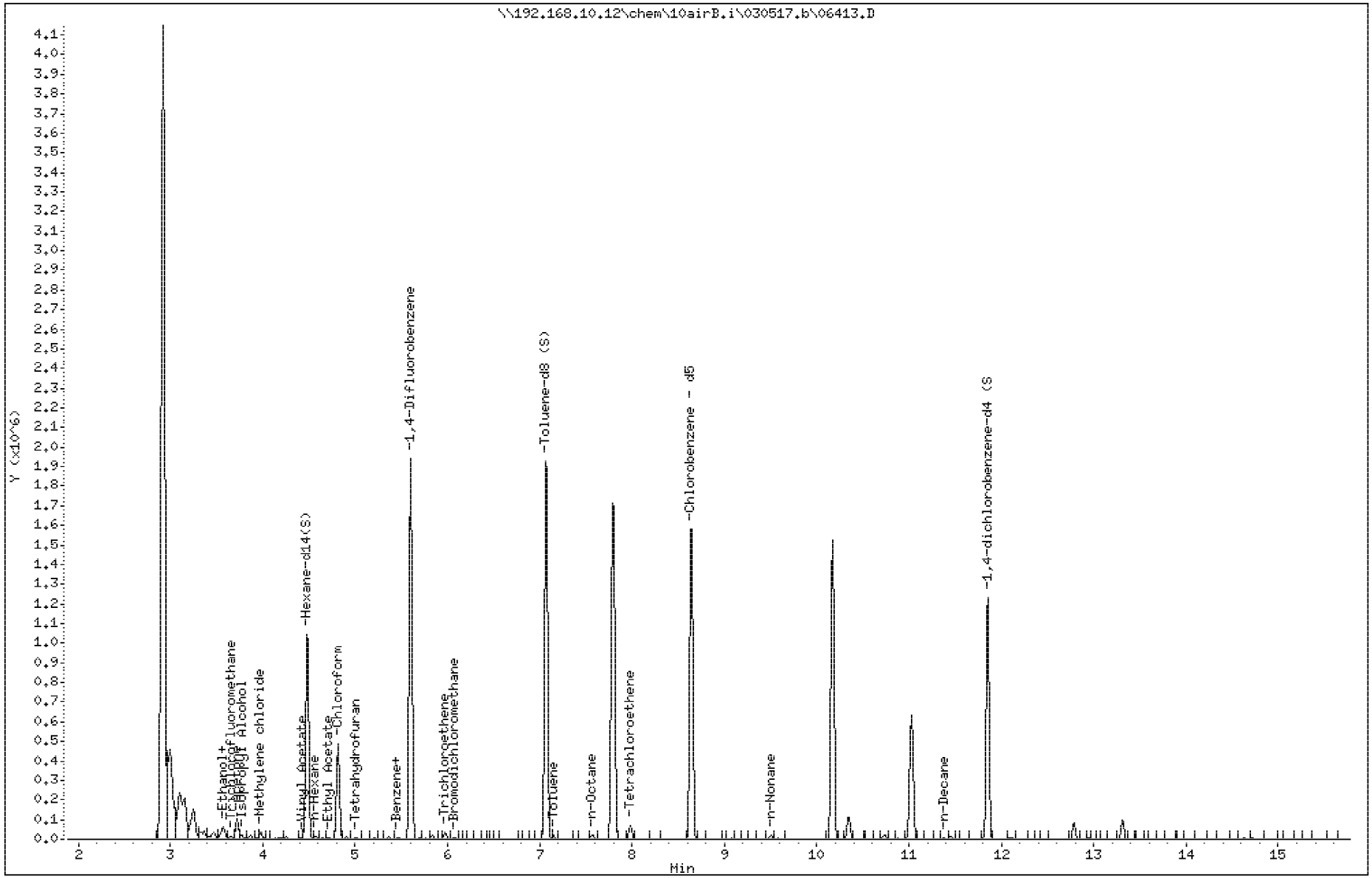
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1389391	-1.75
67 Chlorobenzene - d	951026	570616	1331436	906502	-4.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D
Date : 05-MAR-2017 15:16
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

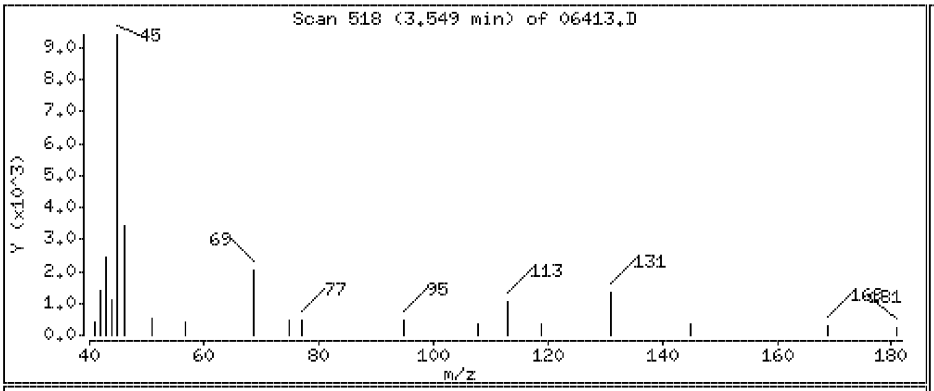
Operator: NCK

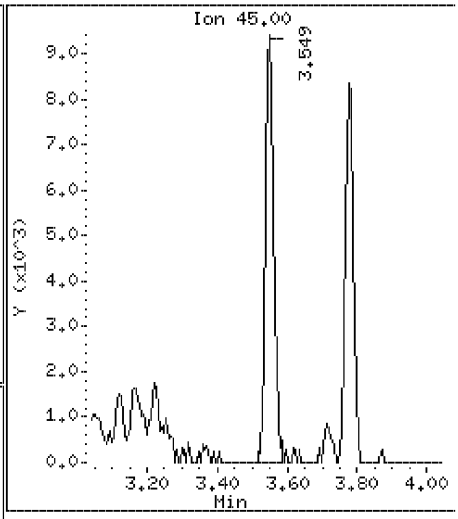
Column phase: J&W DB-5

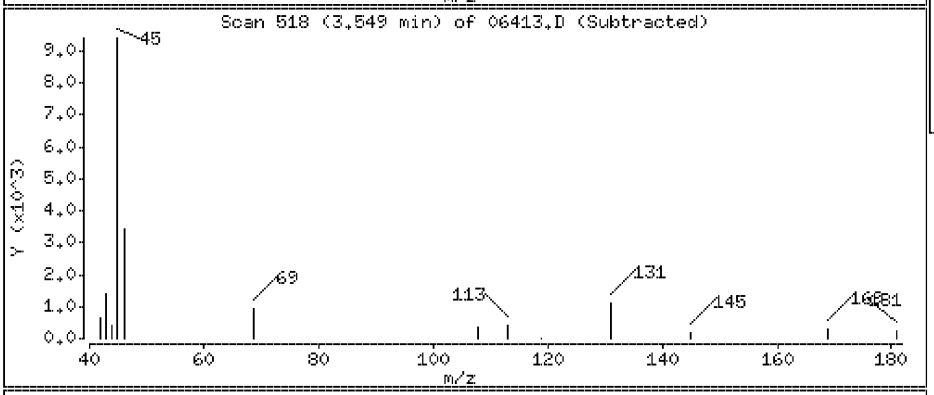
Column diameter: 0.32

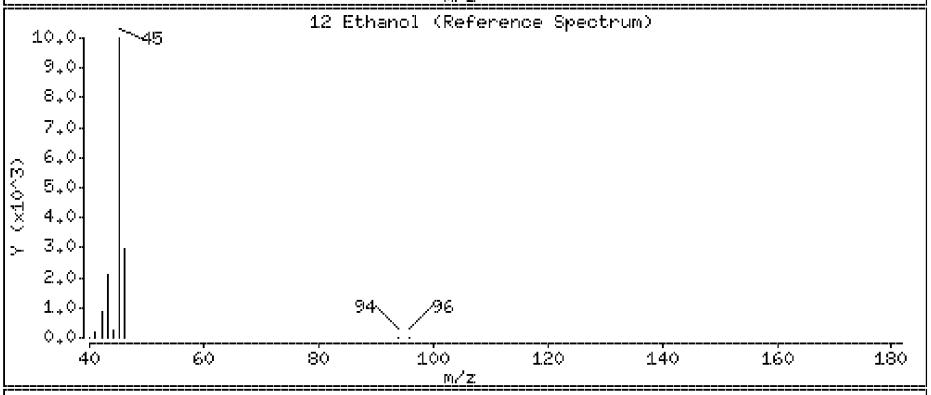
12 Ethanol

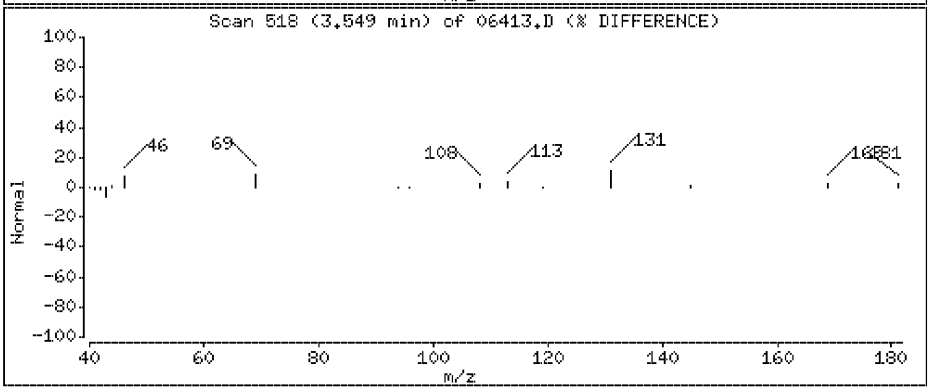
Concentration: 5.16 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

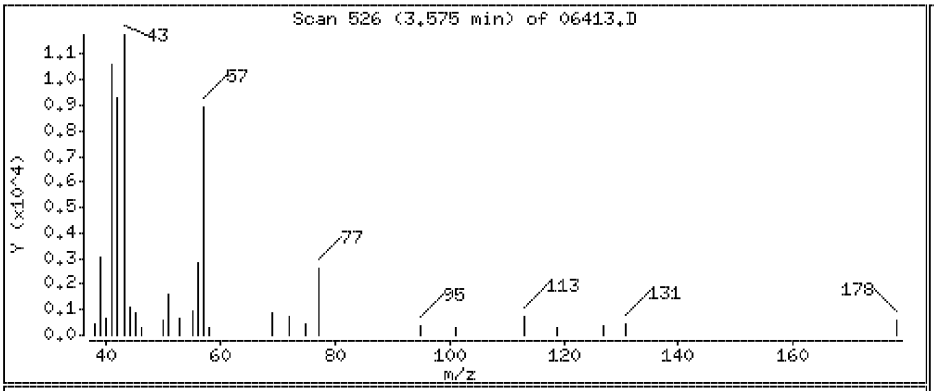
Operator: NCK

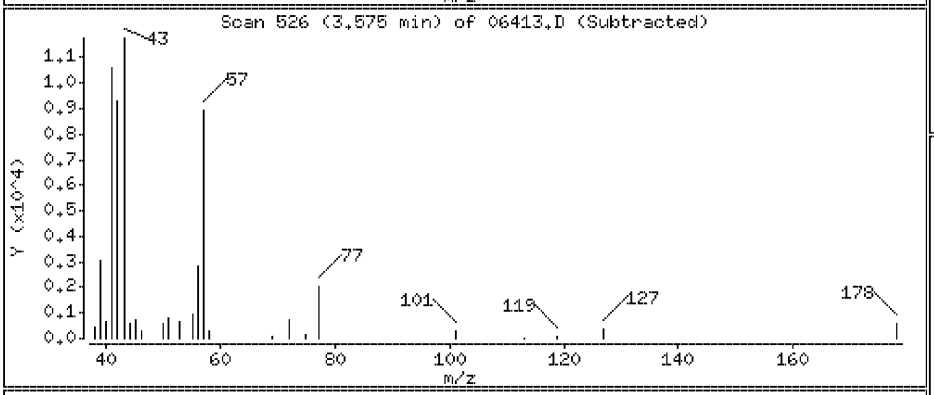
Column phase: J&W DB-5

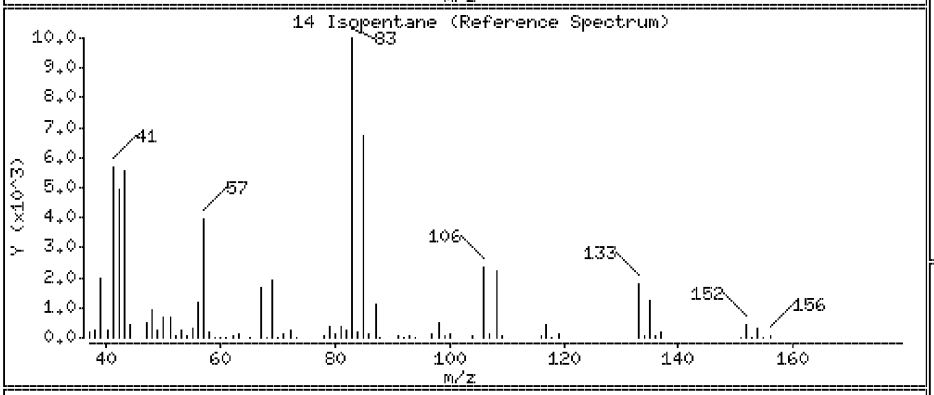
Column diameter: 0.32

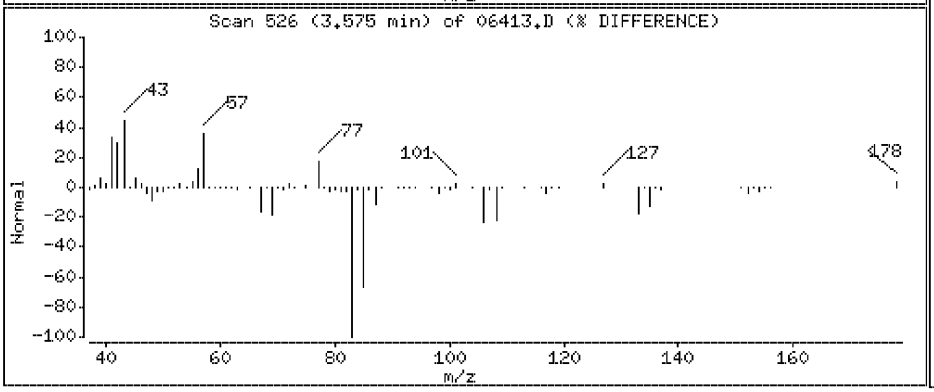
14 Isopentane

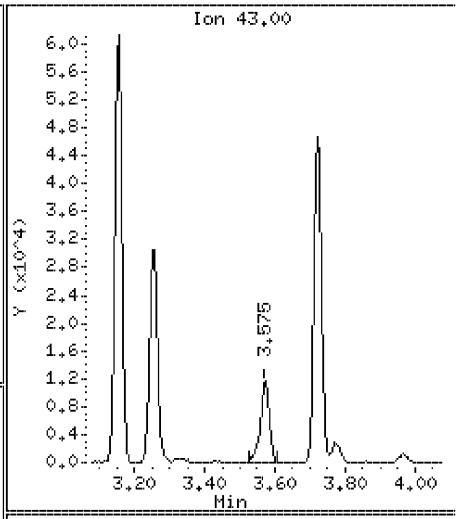
Concentration: 2.34 ppbv

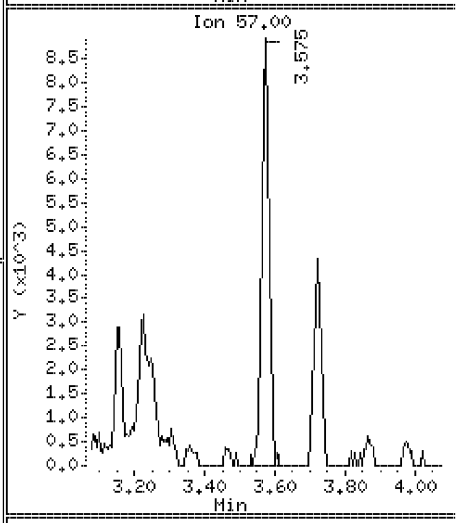


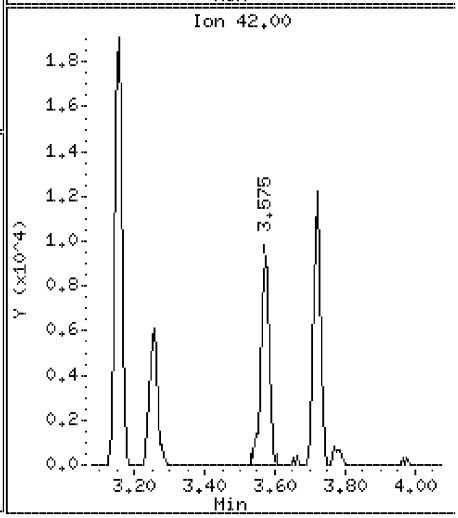












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

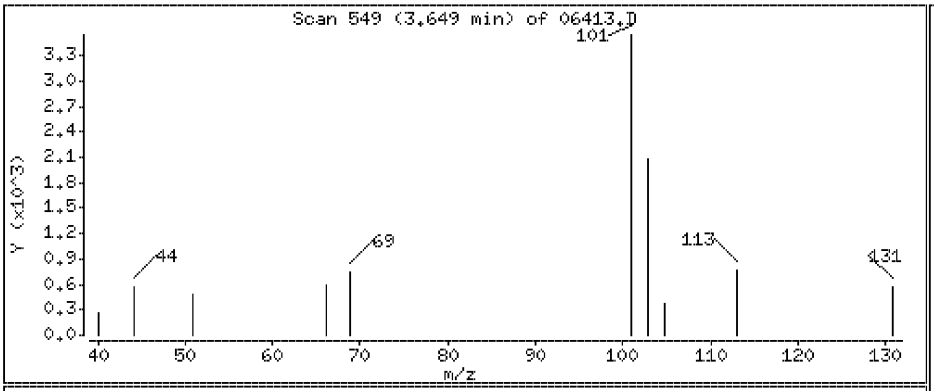
Operator: NCK

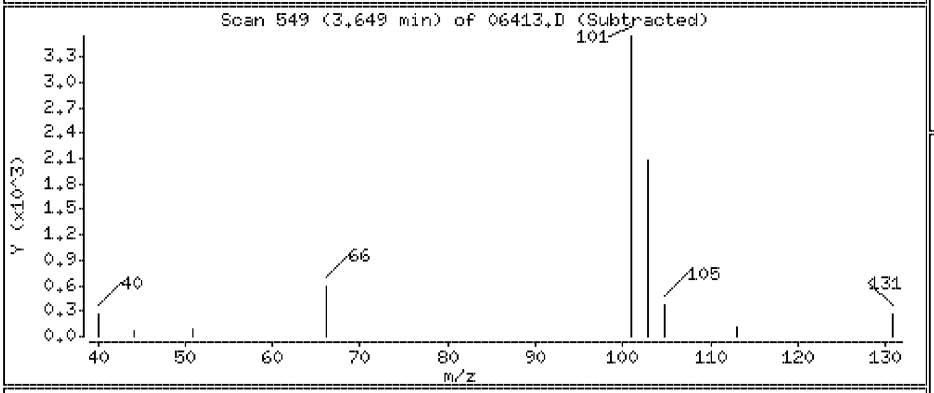
Column phase: J&W DB-5

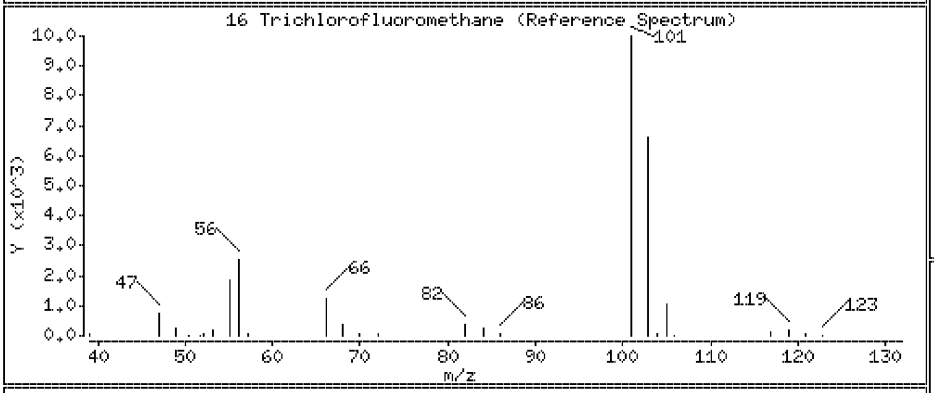
Column diameter: 0.32

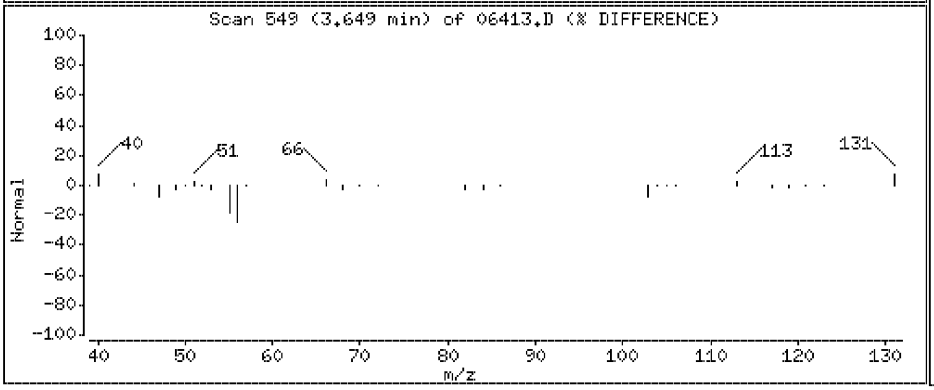
16 Trichlorofluoromethane

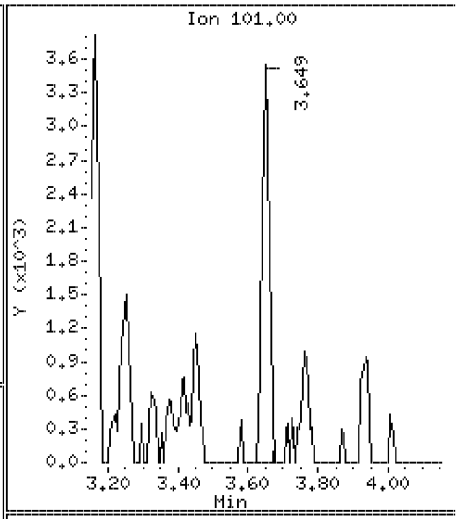
Concentration: 0.232 ppbv

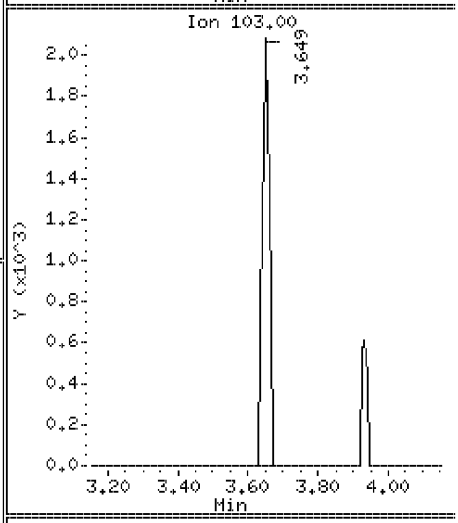


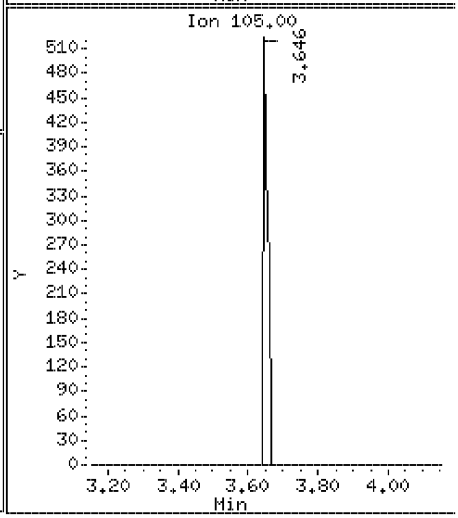












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

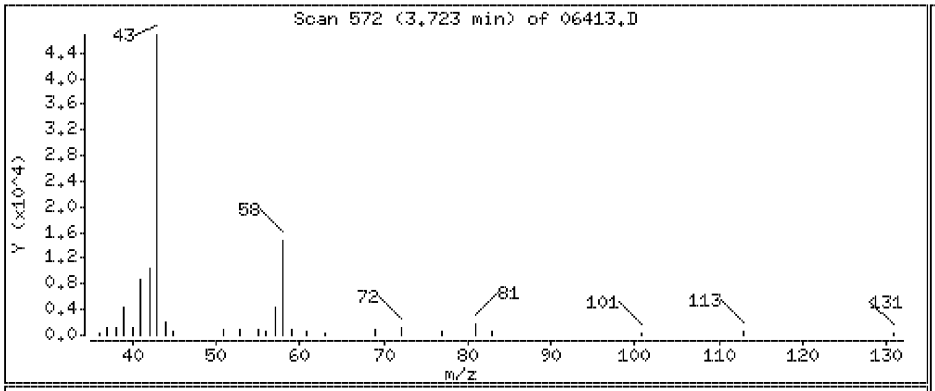
Operator: NCK

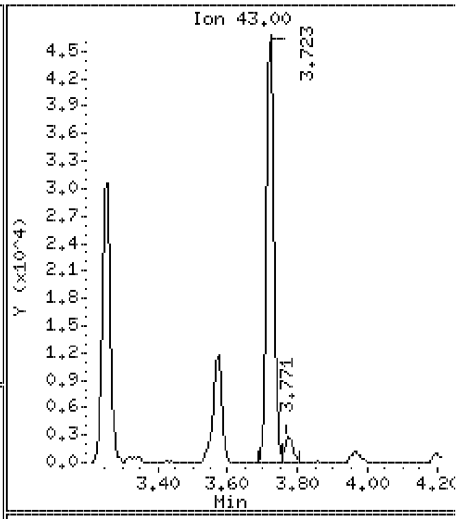
Column phase: J&W DB-5

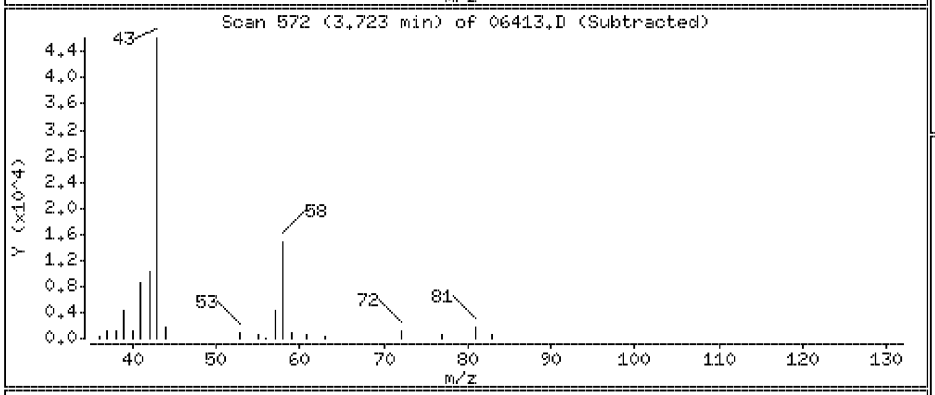
Column diameter: 0.32

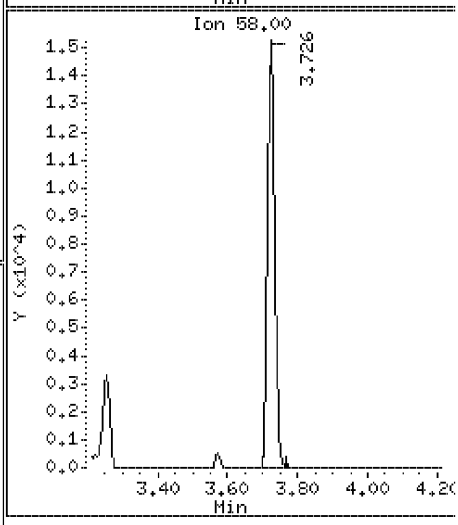
18 Acetone

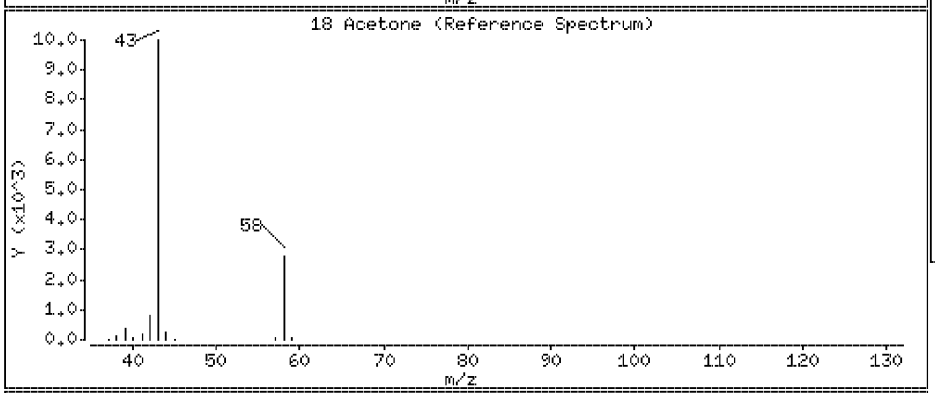
Concentration: 5.41 ppbv

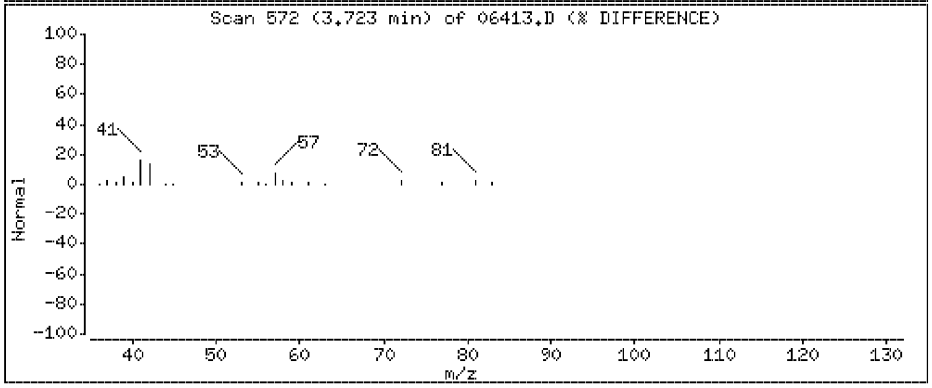












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

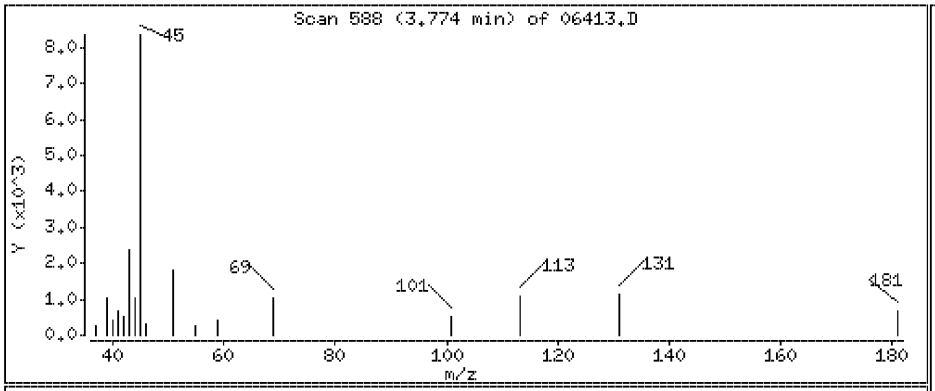
Operator: NCK

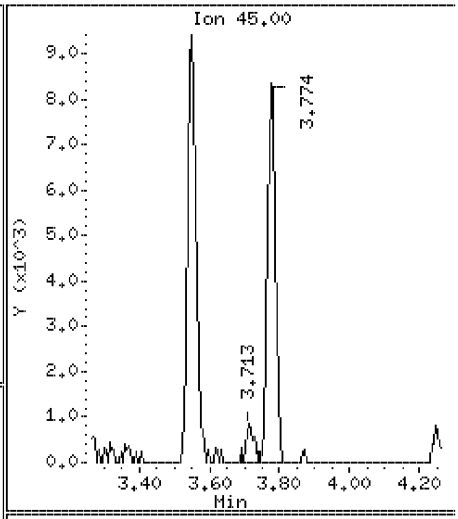
Column phase: J&W DB-5

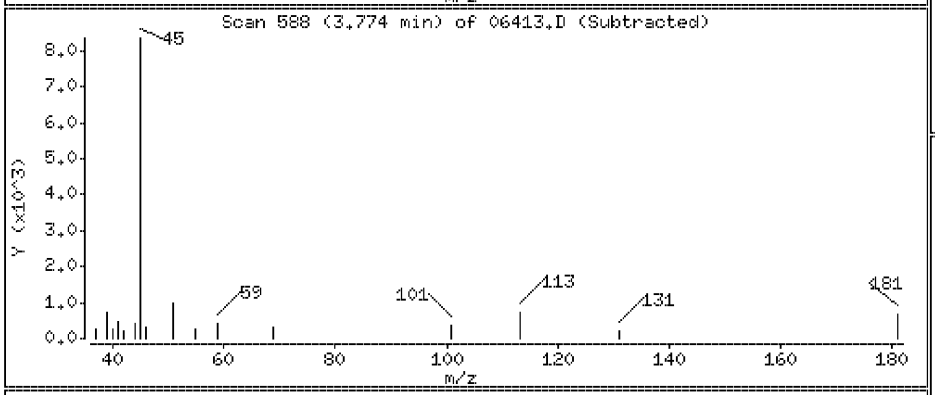
Column diameter: 0.32

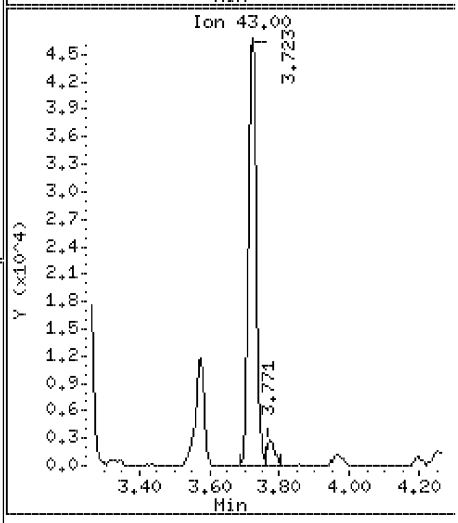
19 Isopropyl Alcohol

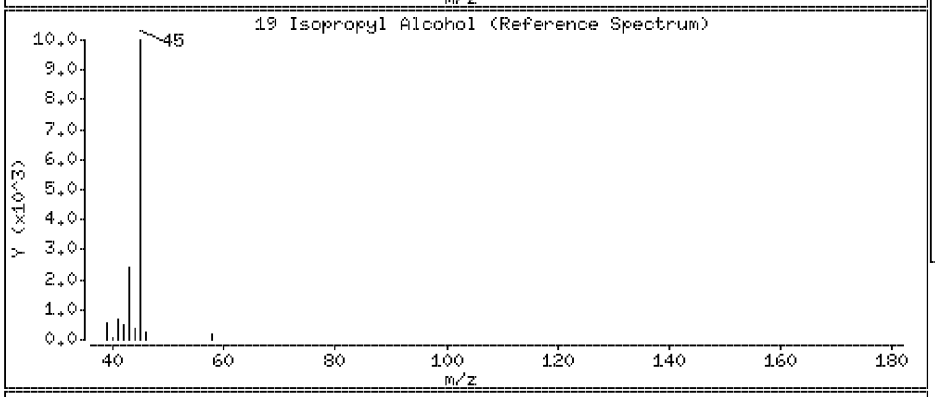
Concentration: 1.03 ppbv

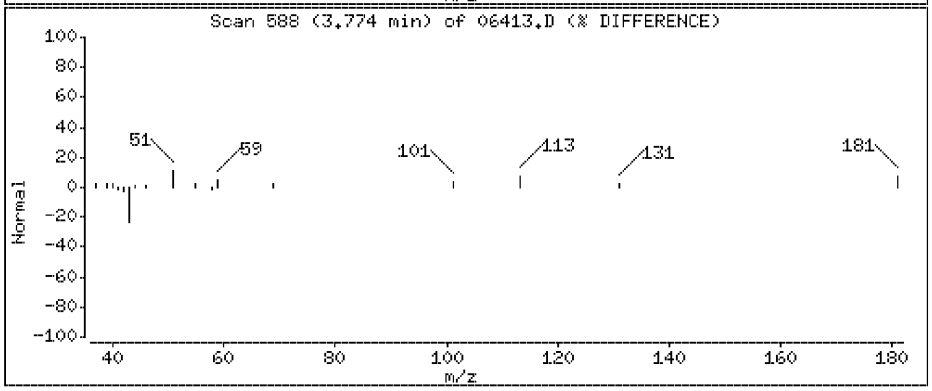












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

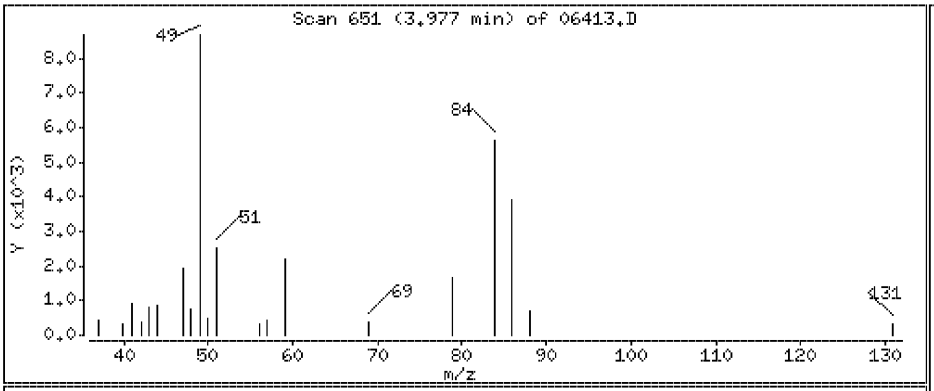
Operator: NCK

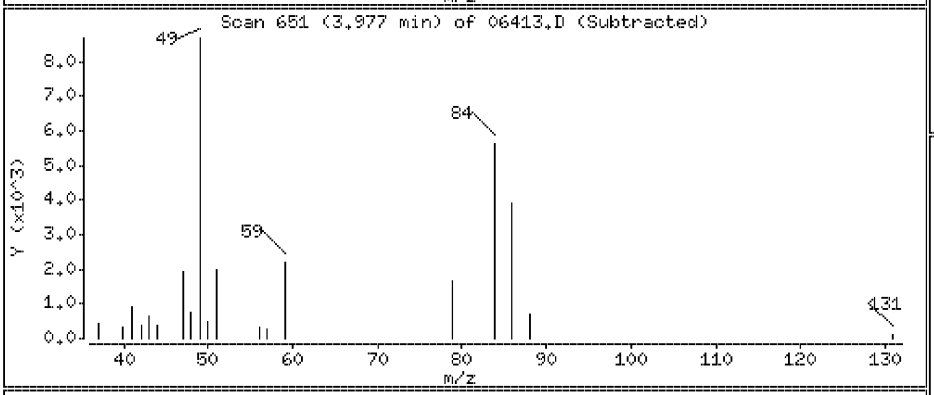
Column phase: J&W DB-5

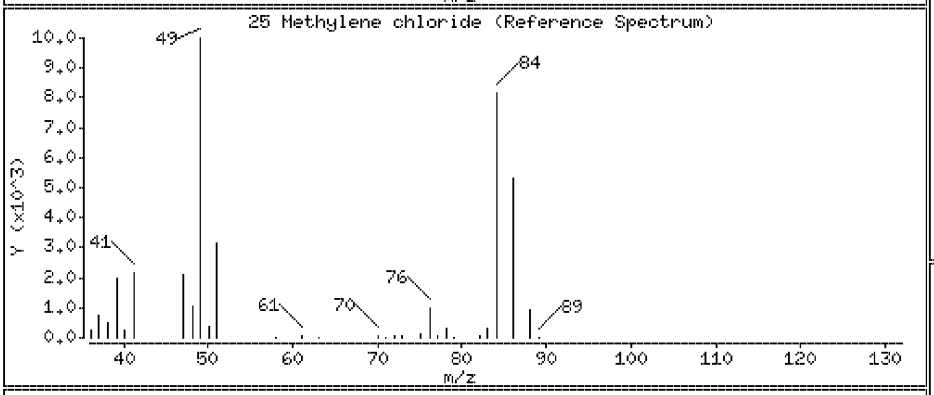
Column diameter: 0.32

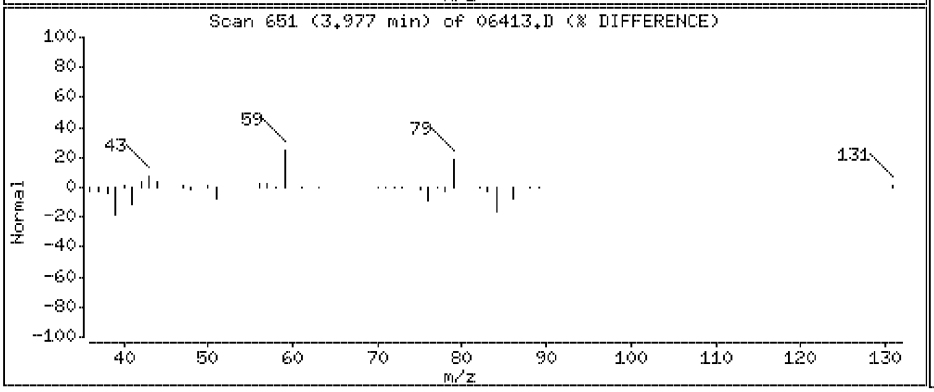
25 Methylene chloride

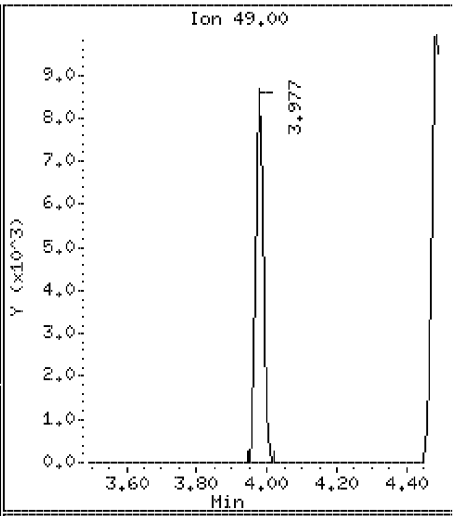
Concentration: 1.47 ppbv

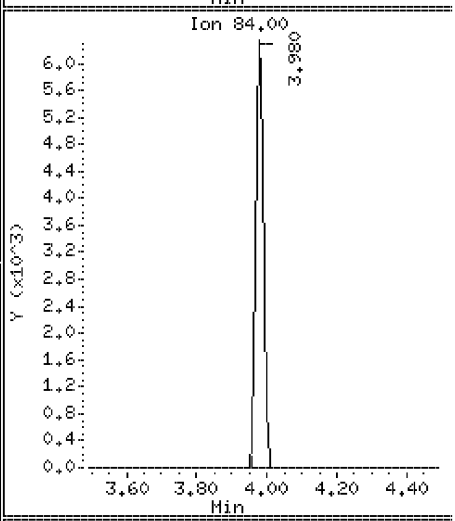


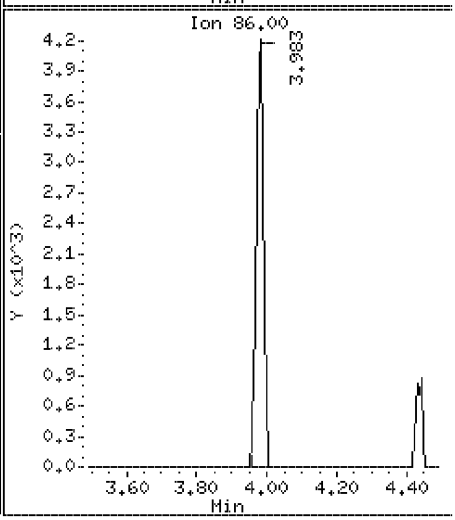












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

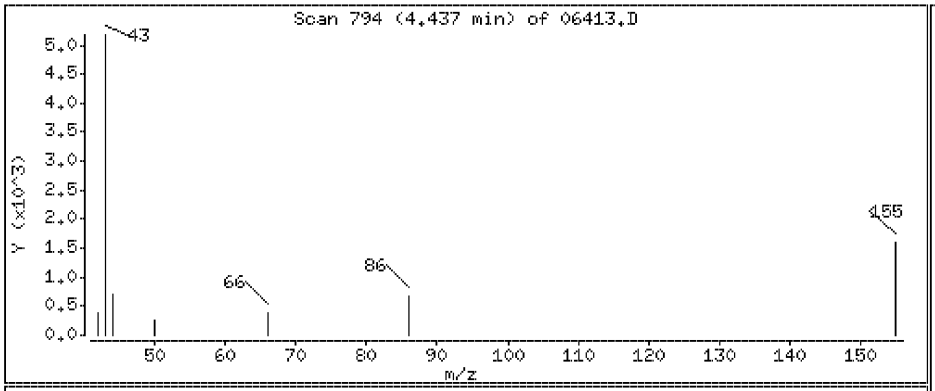
Operator: NCK

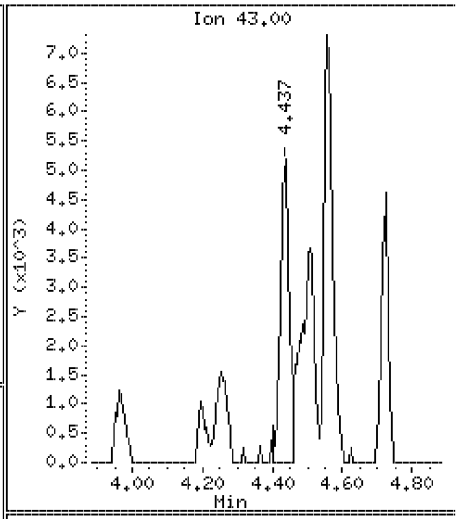
Column phase: J&W DB-5

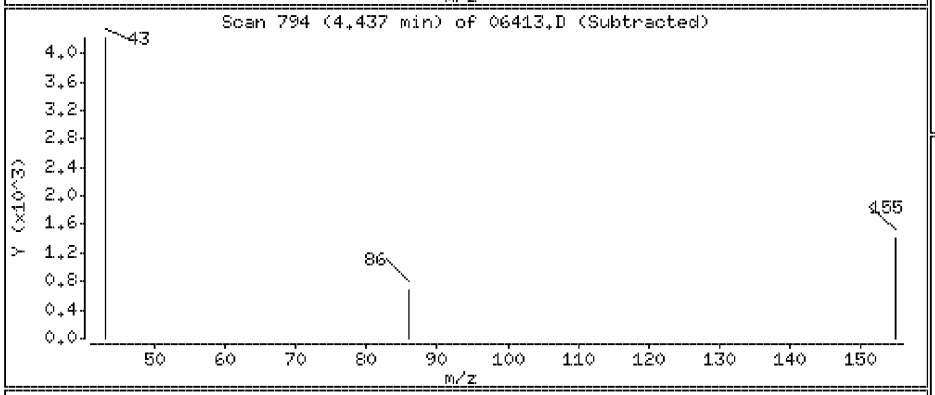
Column diameter: 0.32

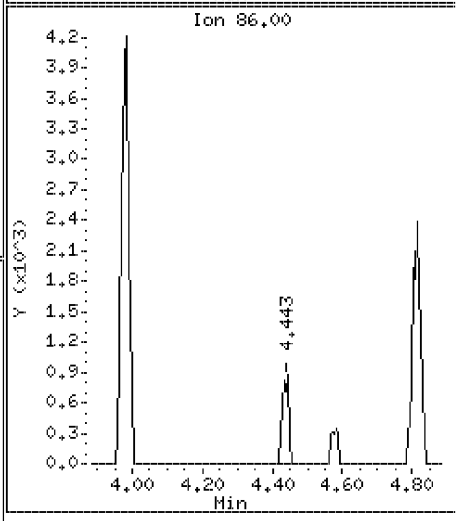
30 Vinyl Acetate

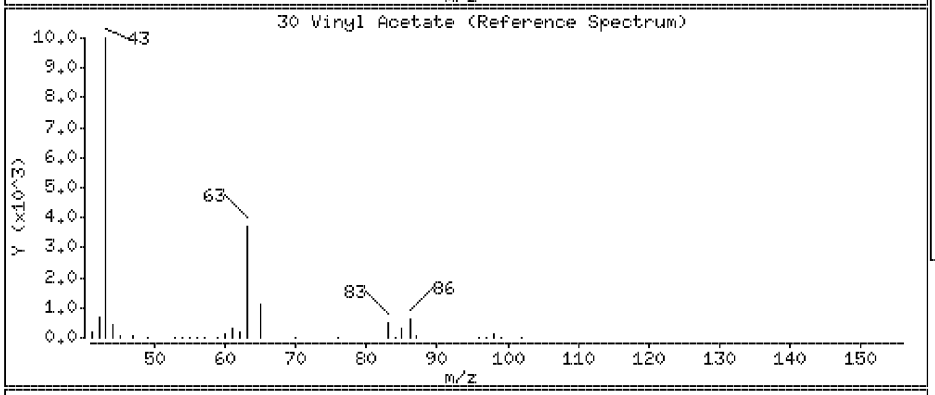
Concentration: 0.758 ppbv

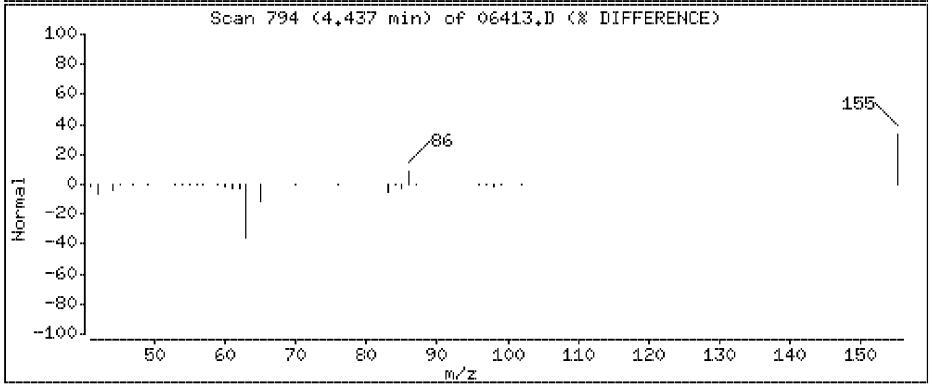












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

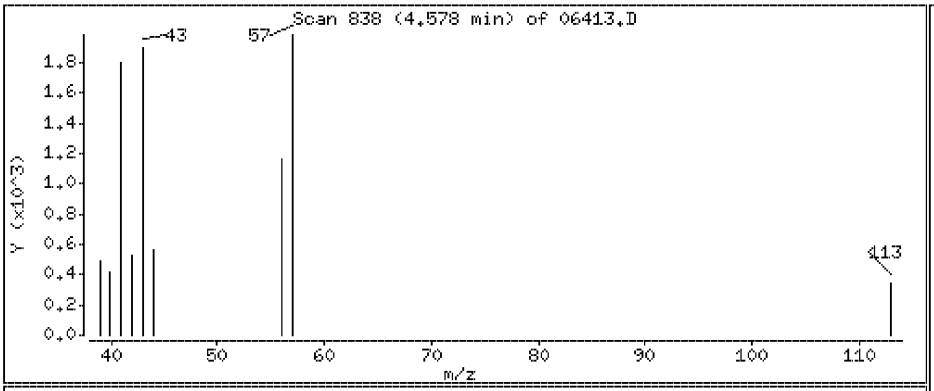
Operator: NCK

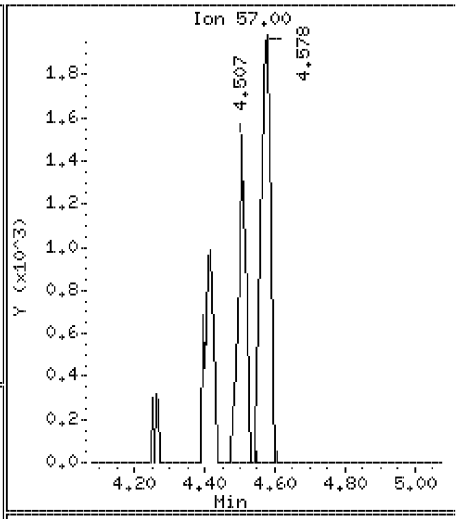
Column phase: J&W DB-5

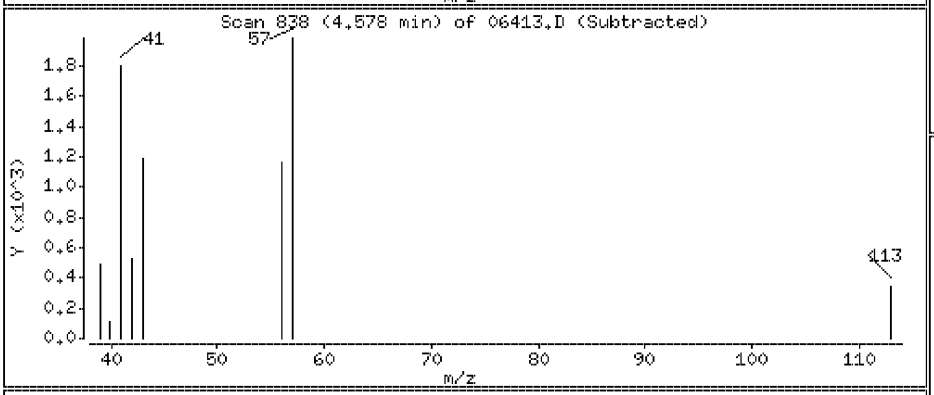
Column diameter: 0.32

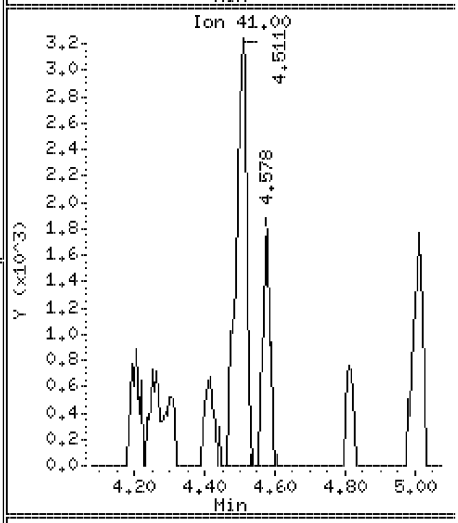
34 n-Hexane

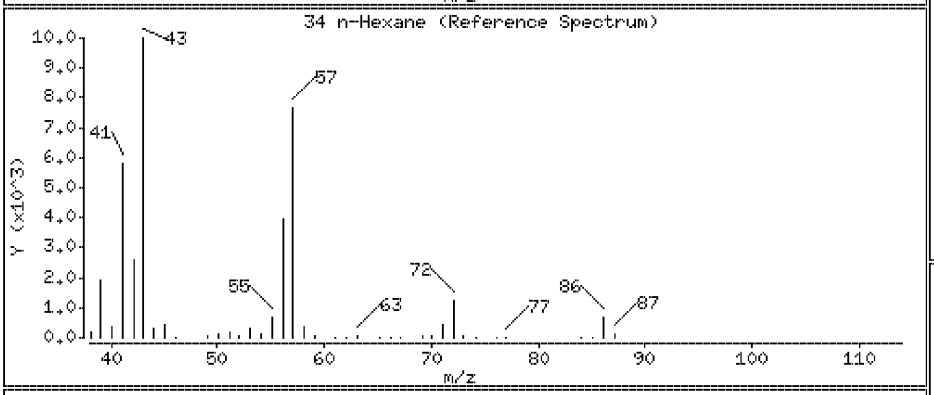
Concentration: 0.306 ppbv

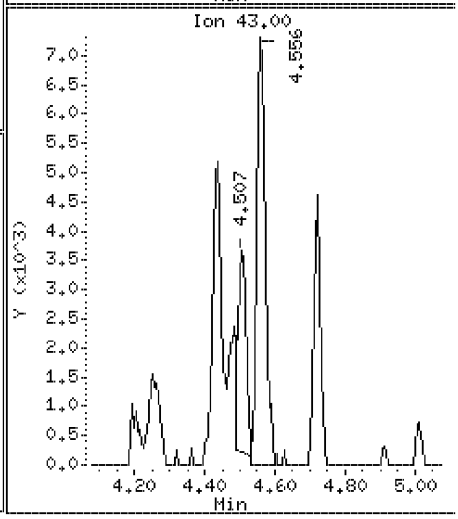


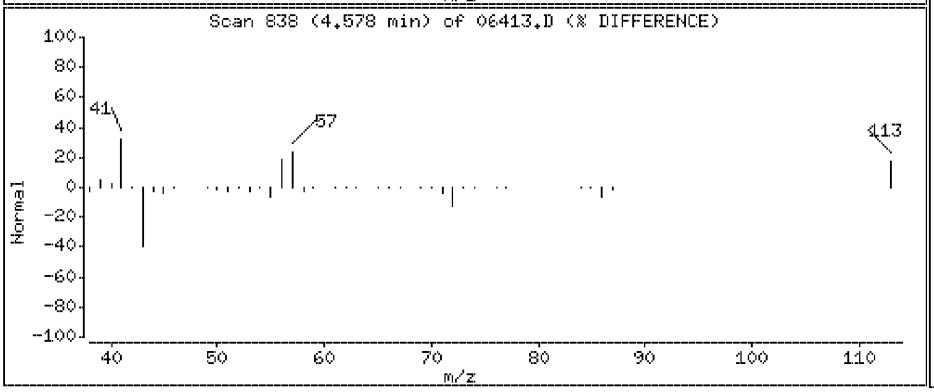












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

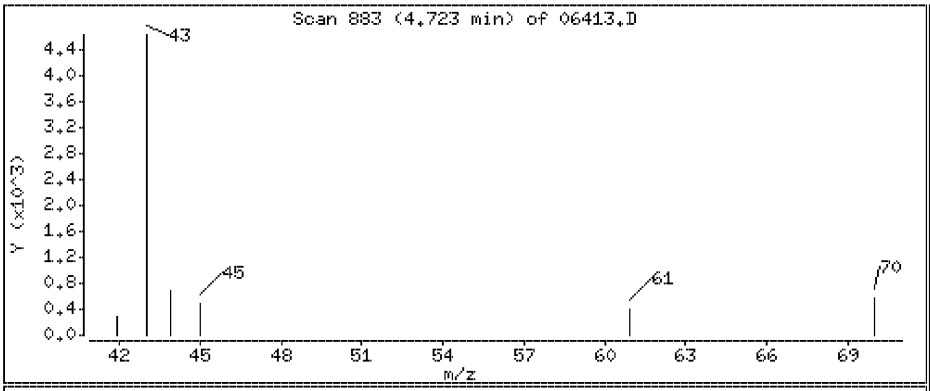
Operator: NCK

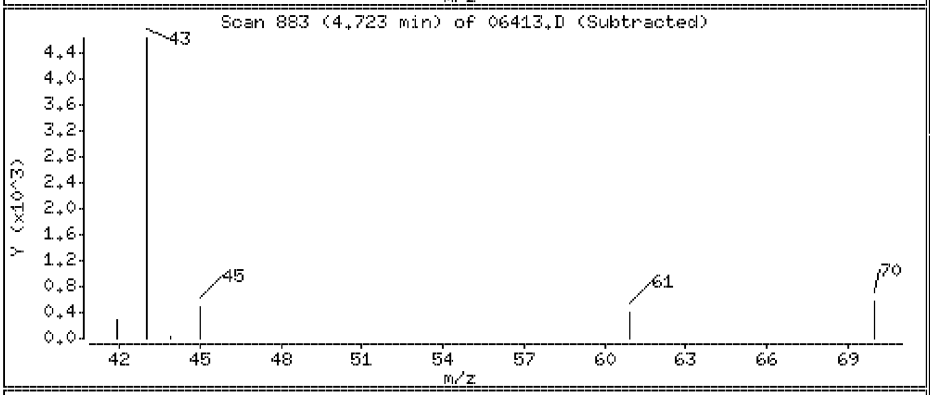
Column phase: J&W DB-5

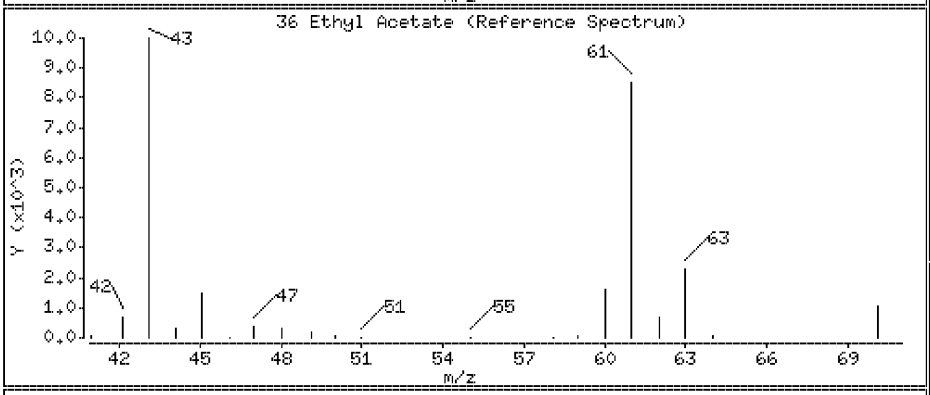
Column diameter: 0.32

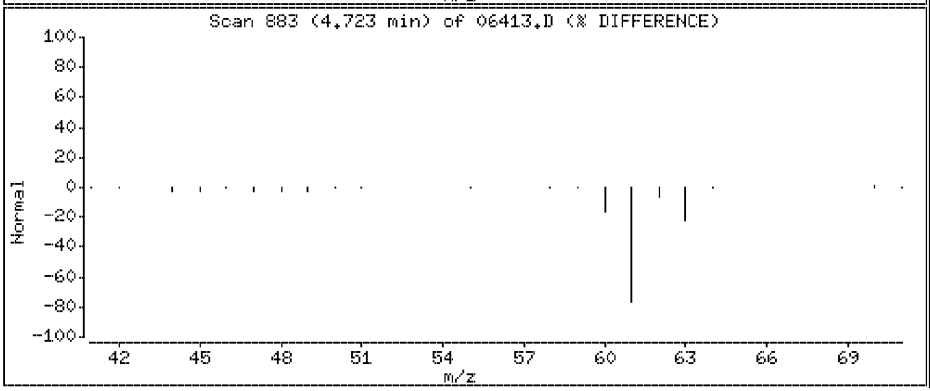
36 Ethyl Acetate

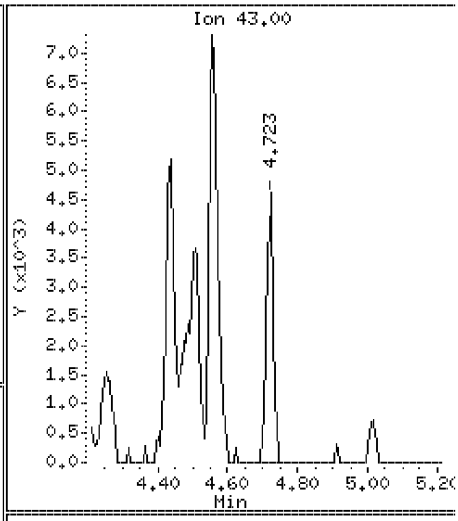
Concentration: 0.355 ppbv

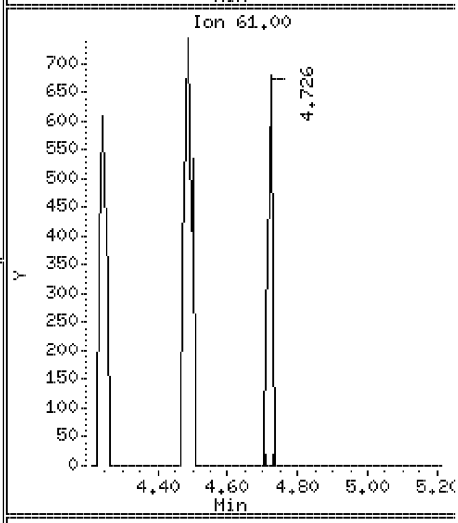


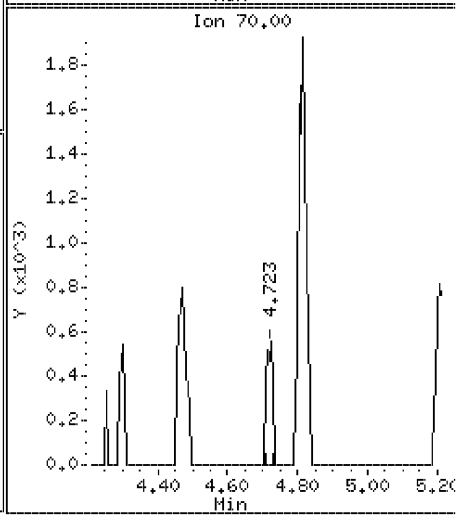












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

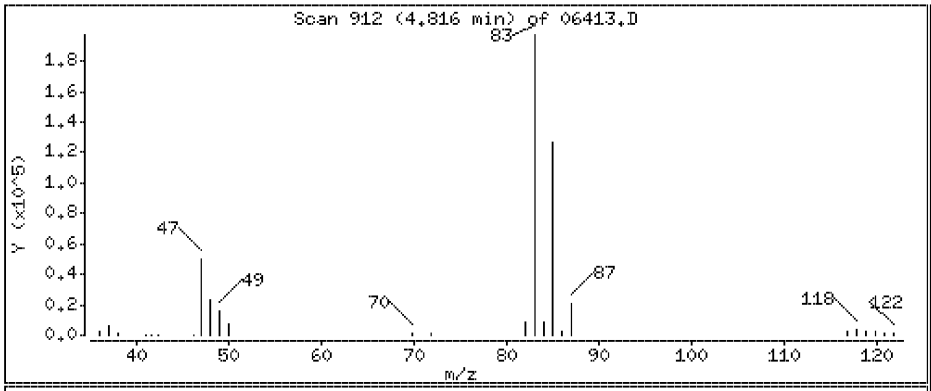
Operator: NCK

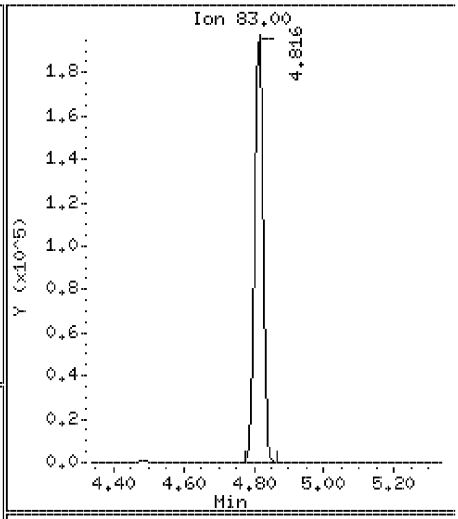
Column phase: J&W DB-5

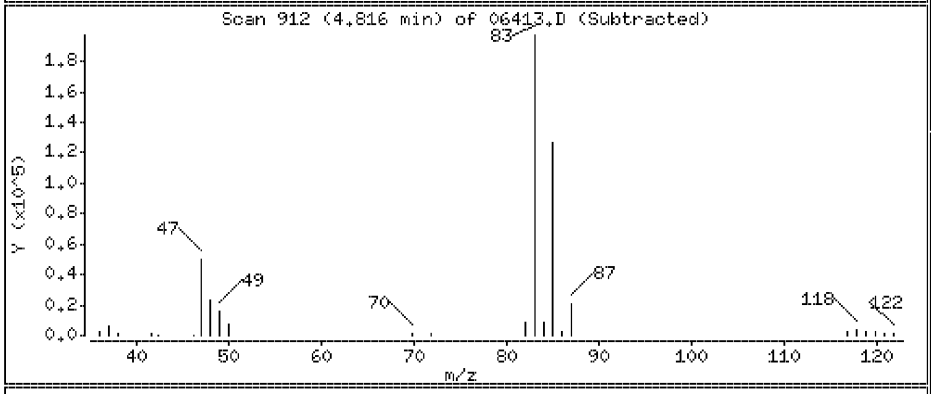
Column diameter: 0.32

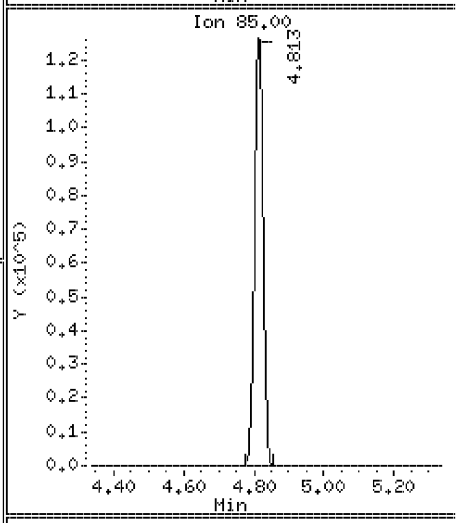
39 Chloroform

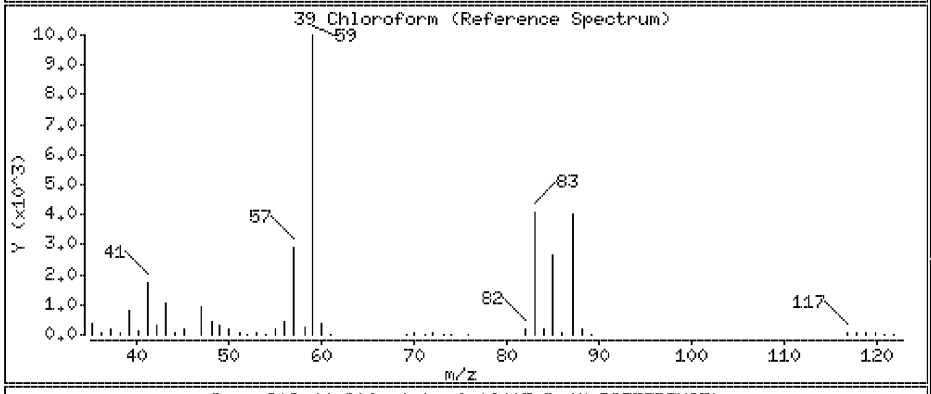
Concentration: 19.9 ppbv

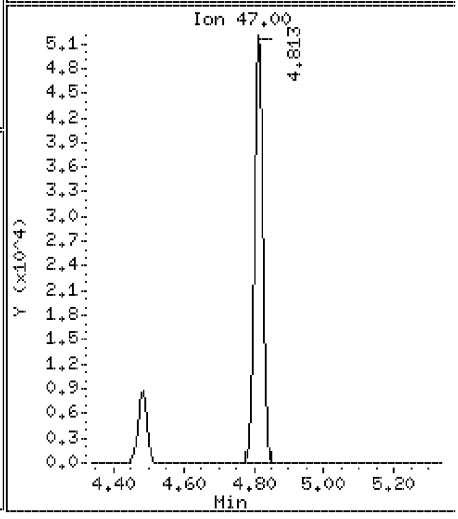


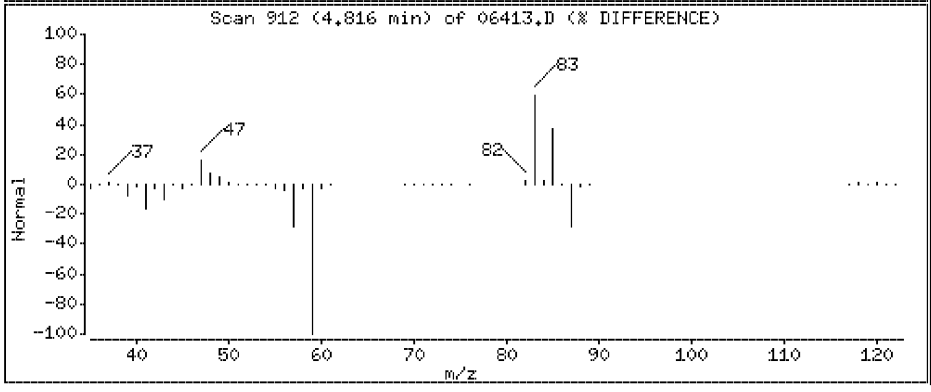












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

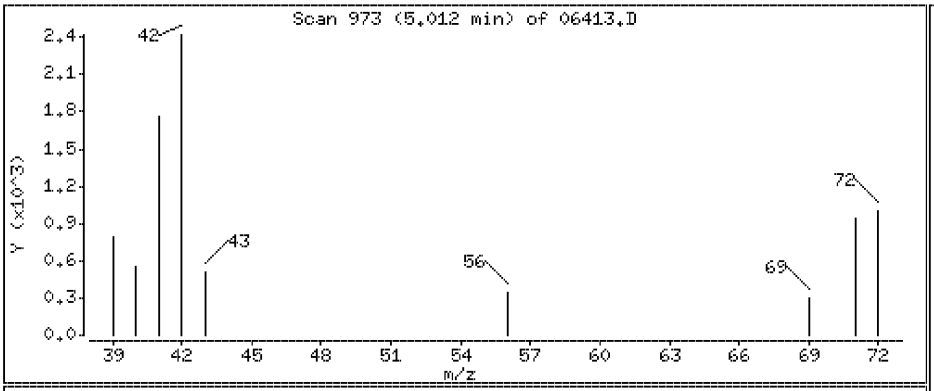
Operator: NCK

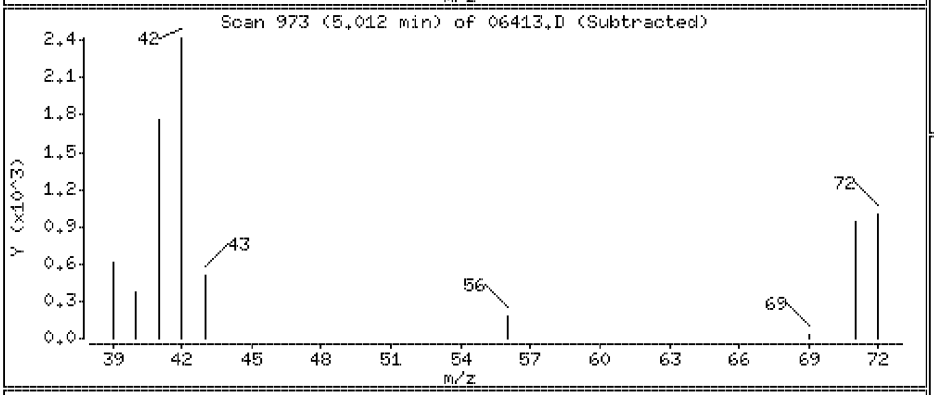
Column phase: J&W DB-5

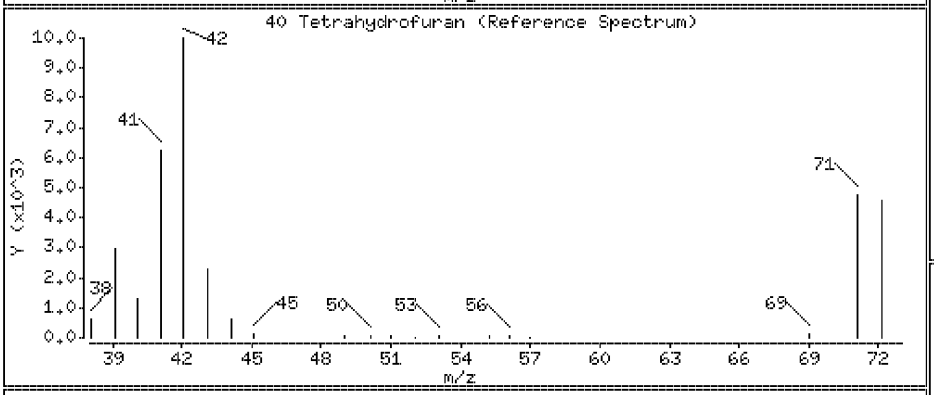
Column diameter: 0.32

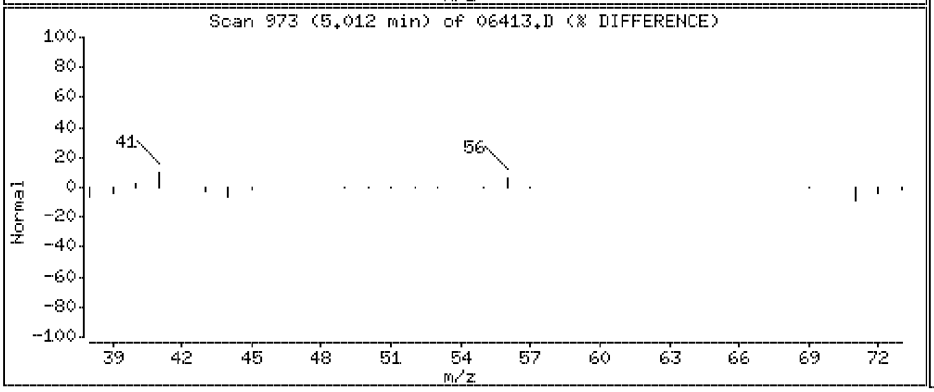
40 Tetrahydrofuran

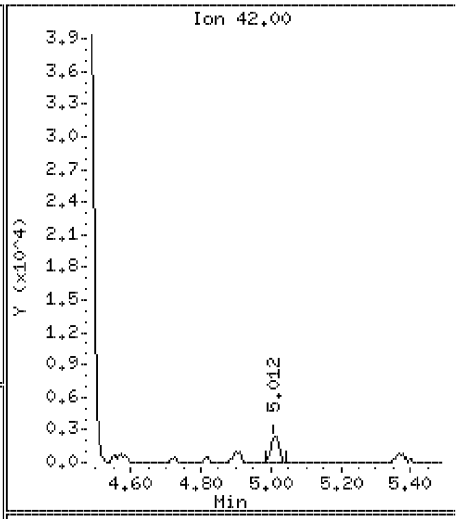
Concentration: 0.442 ppbv

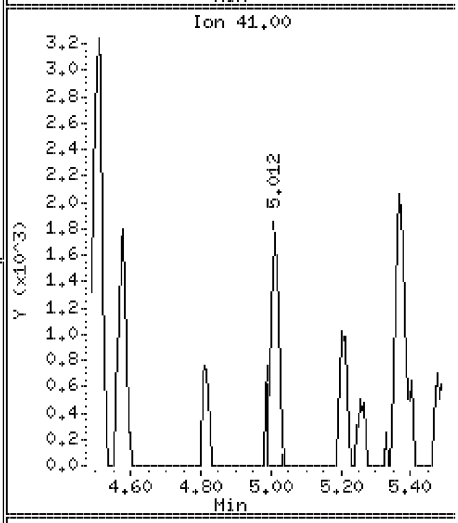


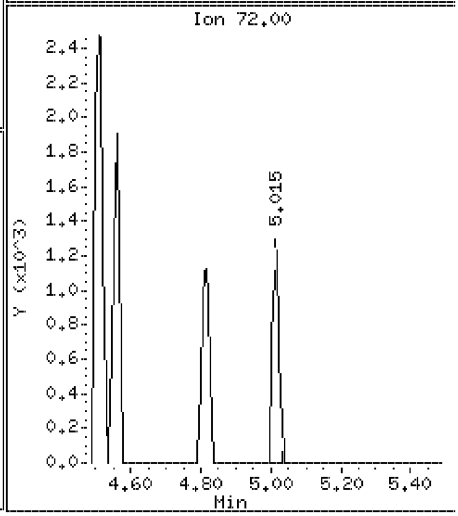












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

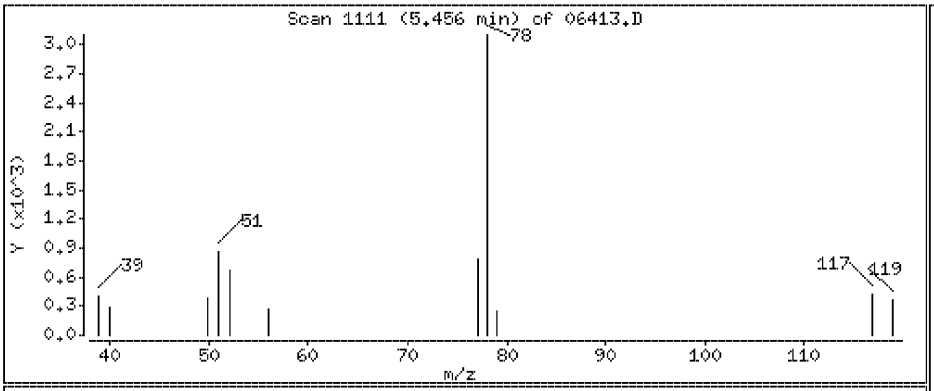
Operator: NCK

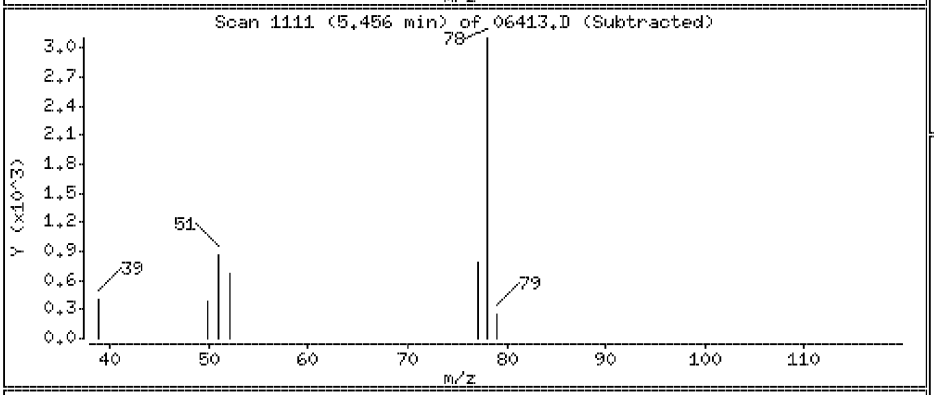
Column phase: J&W DB-5

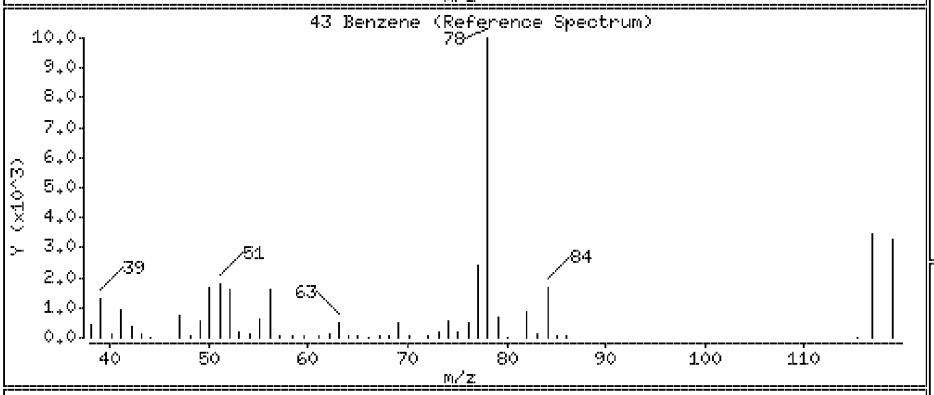
Column diameter: 0.32

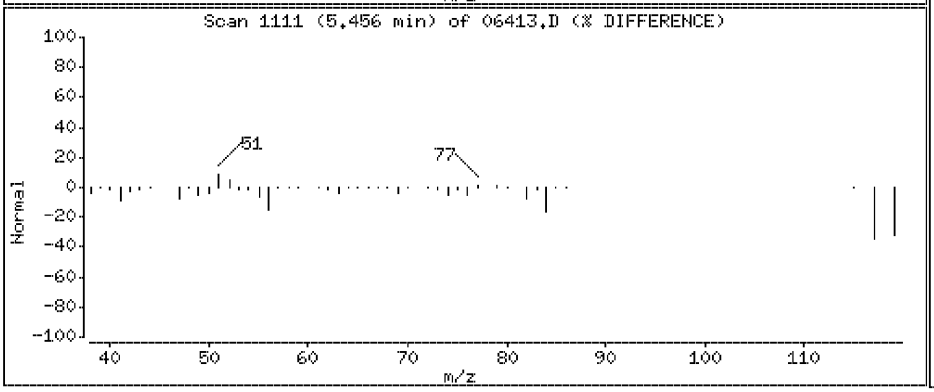
43 Benzene

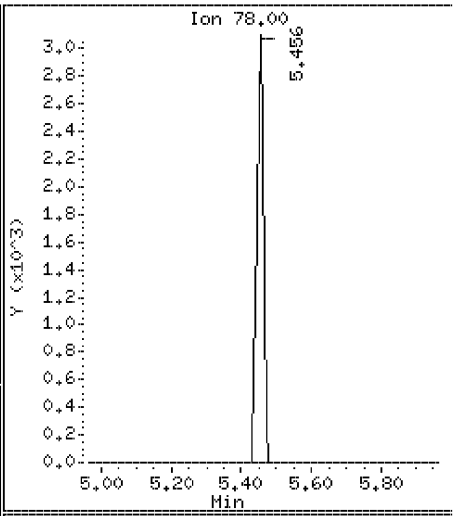
Concentration: 0.162 ppbv

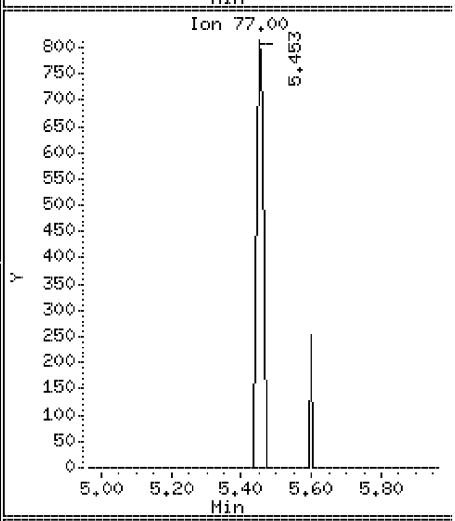


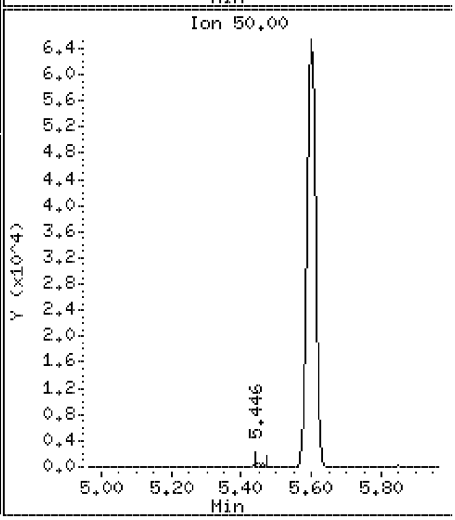












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

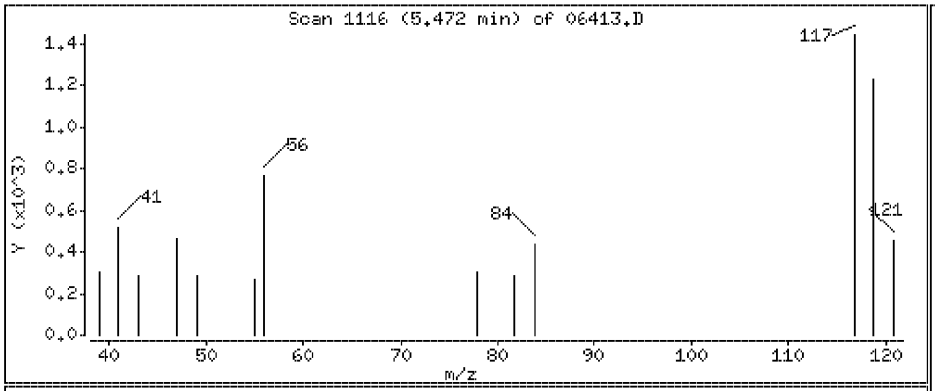
Operator: NCK

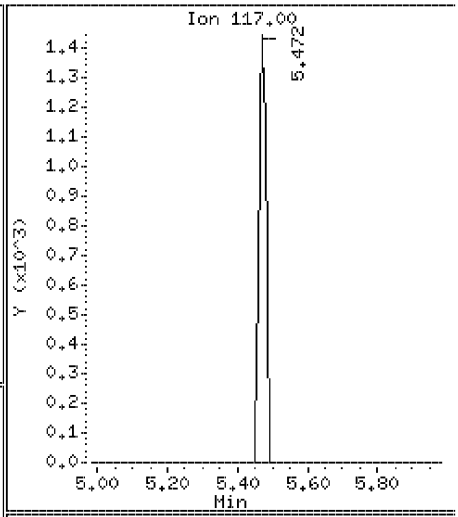
Column phase: J&W DB-5

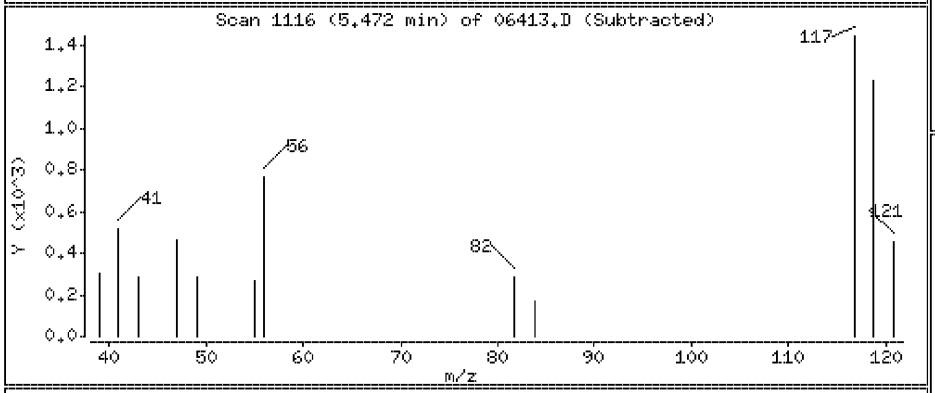
Column diameter: 0.32

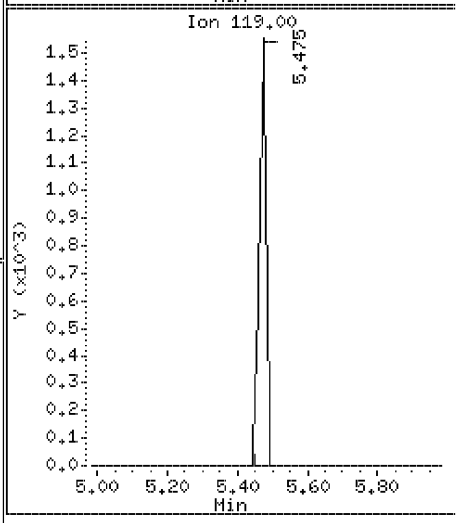
44 Carbon tetrachloride

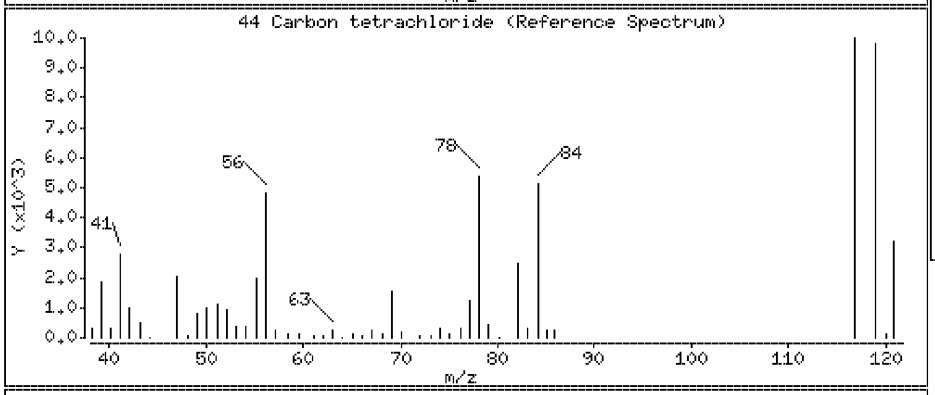
Concentration: 0.106 ppbv

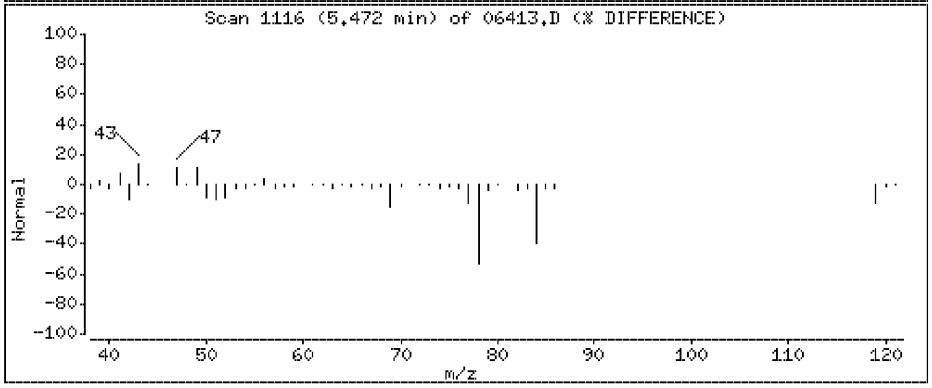












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

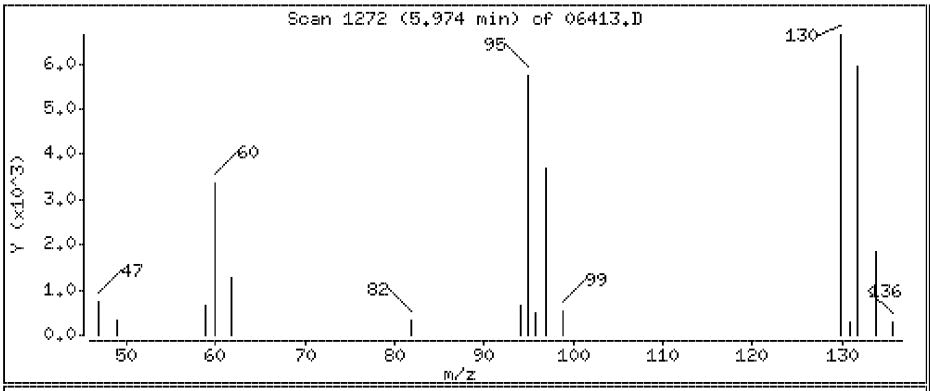
Operator: NCK

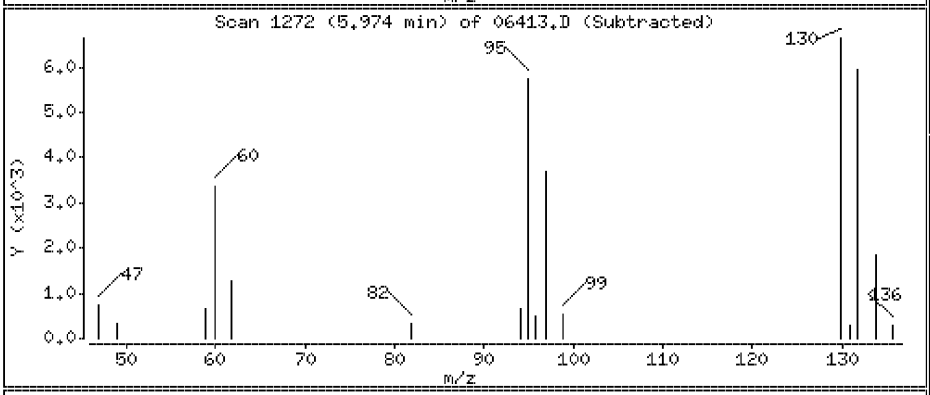
Column phase: J&W DB-5

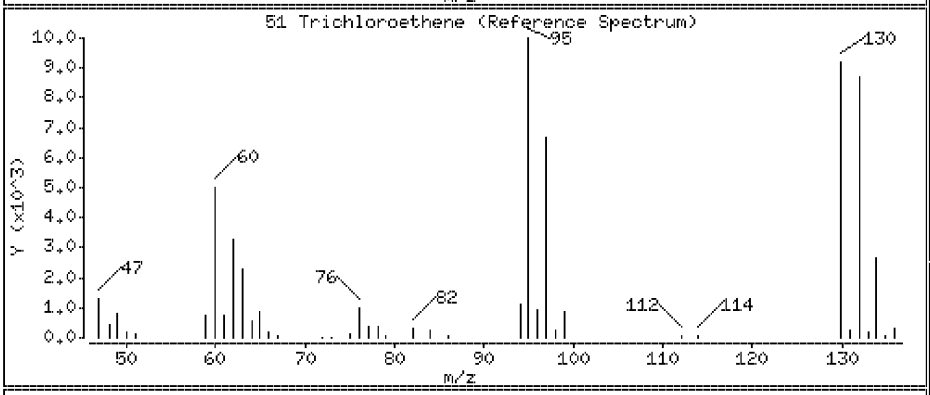
Column diameter: 0.32

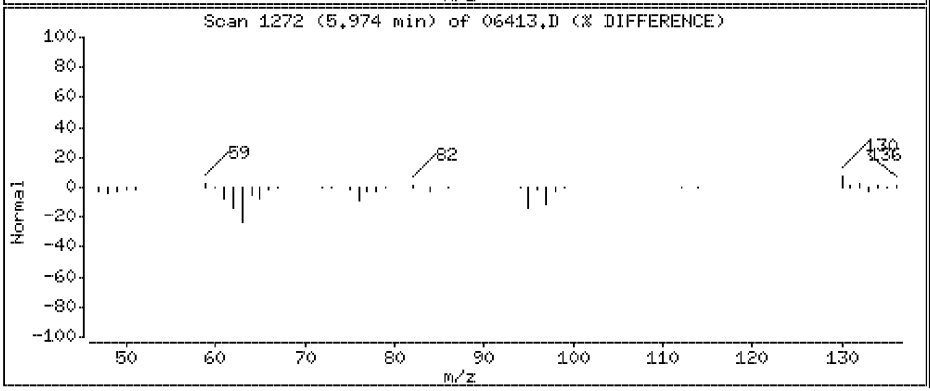
51 Trichloroethene

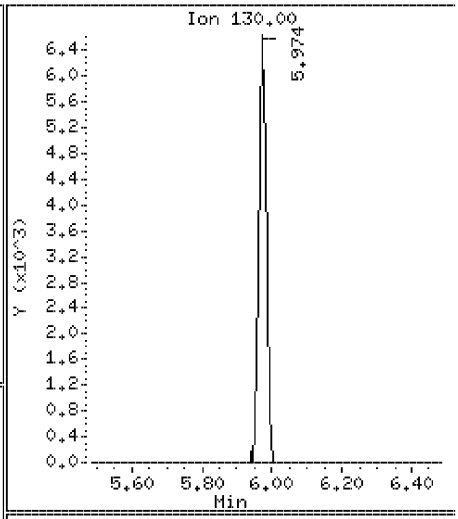
Concentration: 0.732 ppbv

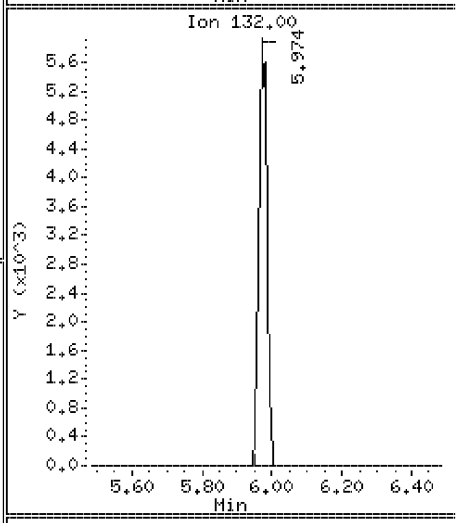


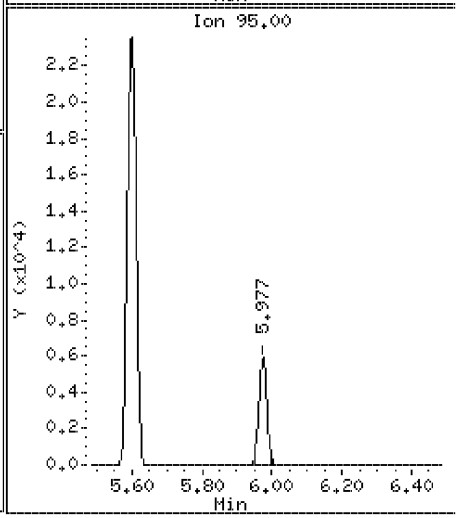












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

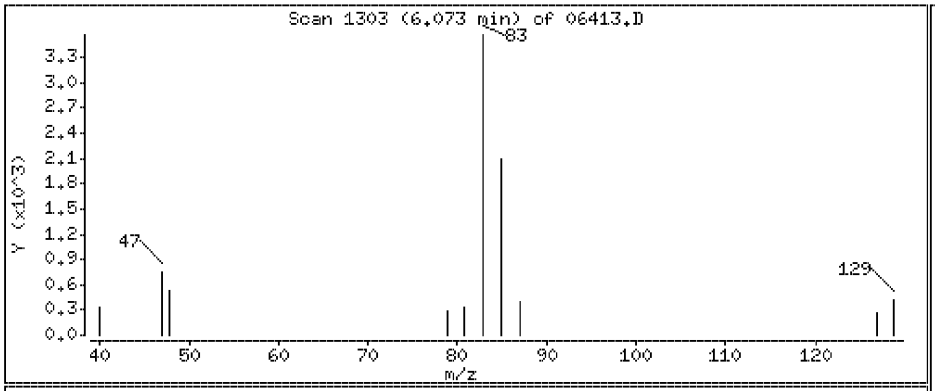
Operator: NCK

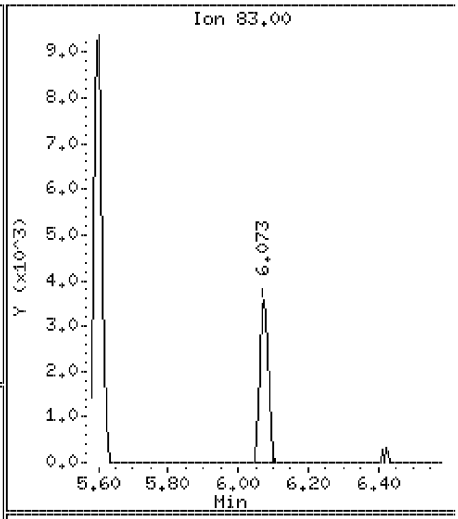
Column phase: J&W DB-5

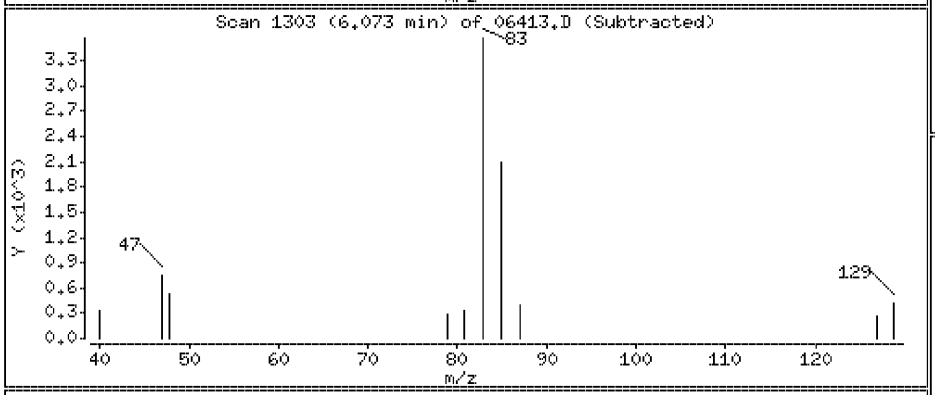
Column diameter: 0.32

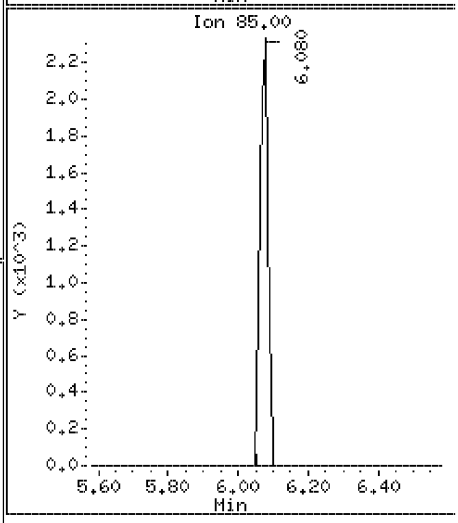
54 Bromodichloromethane

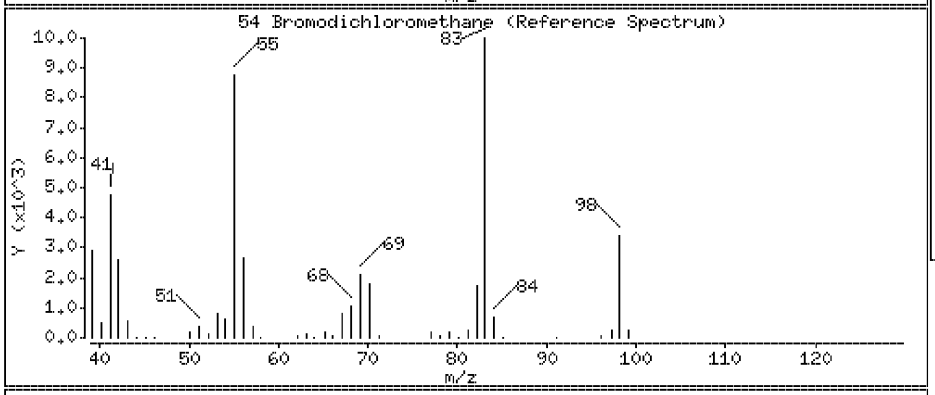
Concentration: 0.315 ppbv

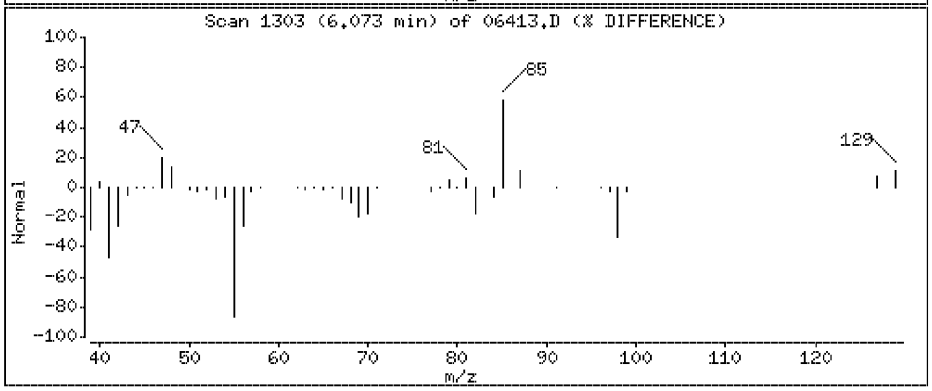












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

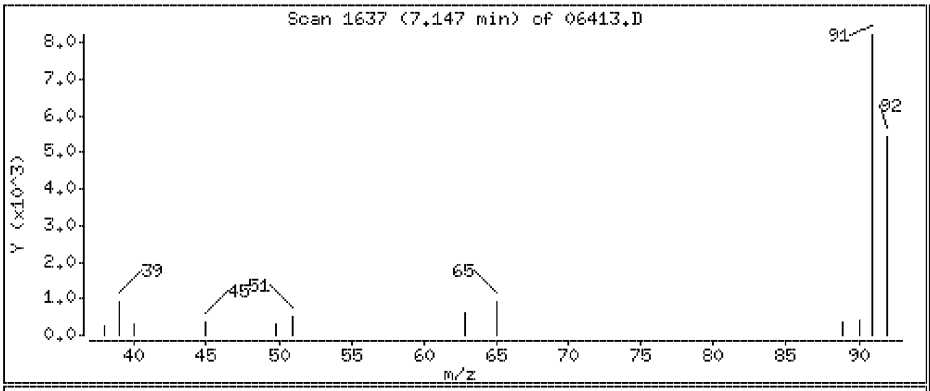
Operator: NCK

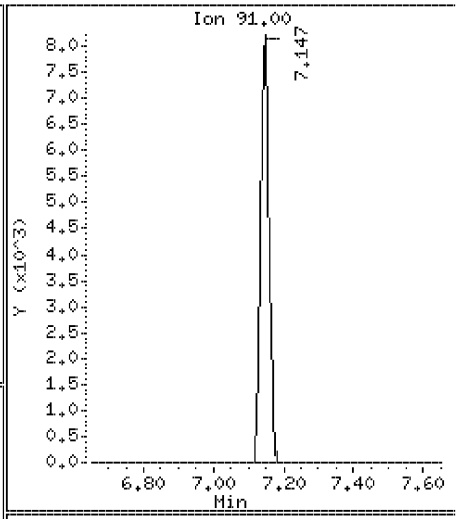
Column phase: J&W DB-5

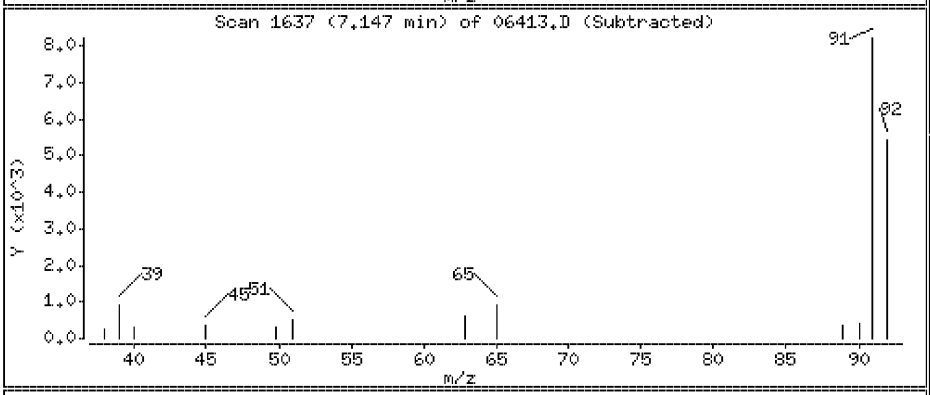
Column diameter: 0.32

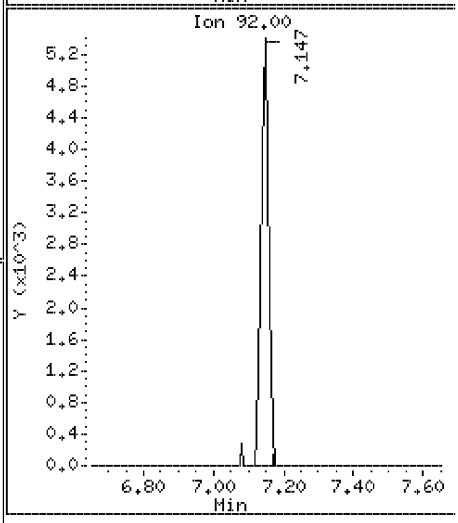
61 Toluene

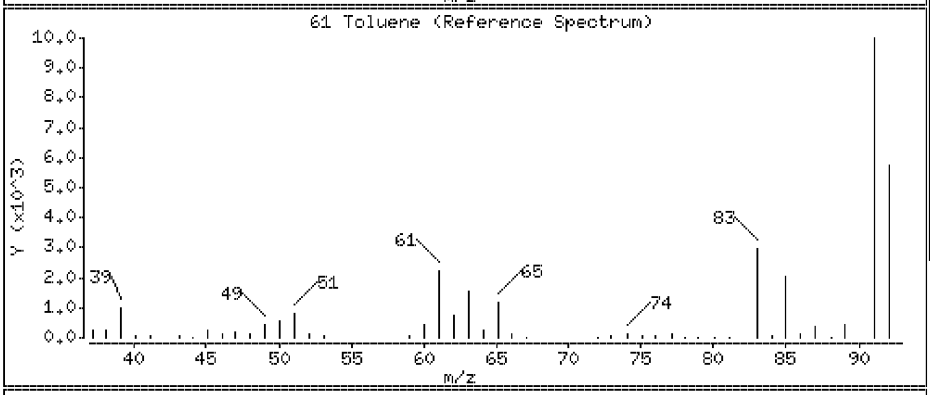
Concentration: 0.421 ppbv

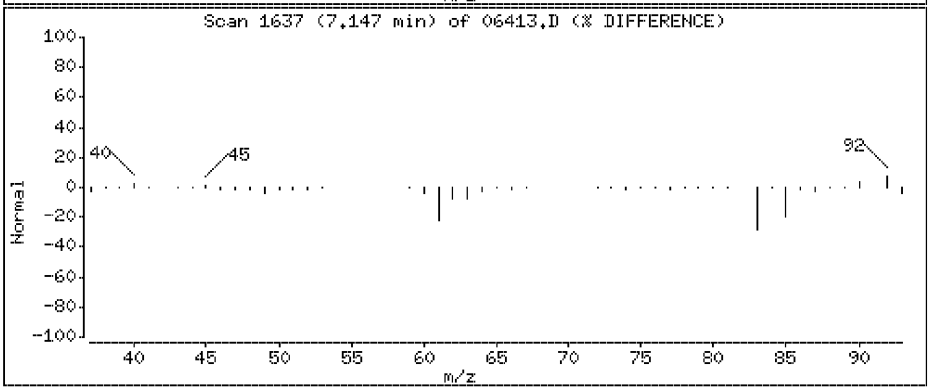












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

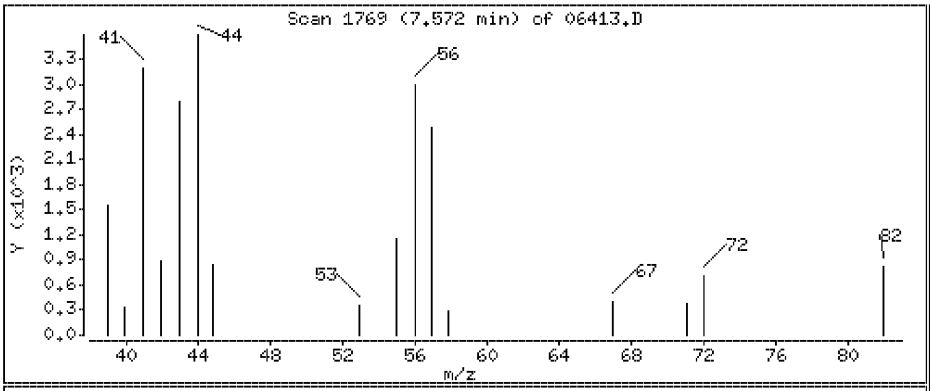
Operator: NCK

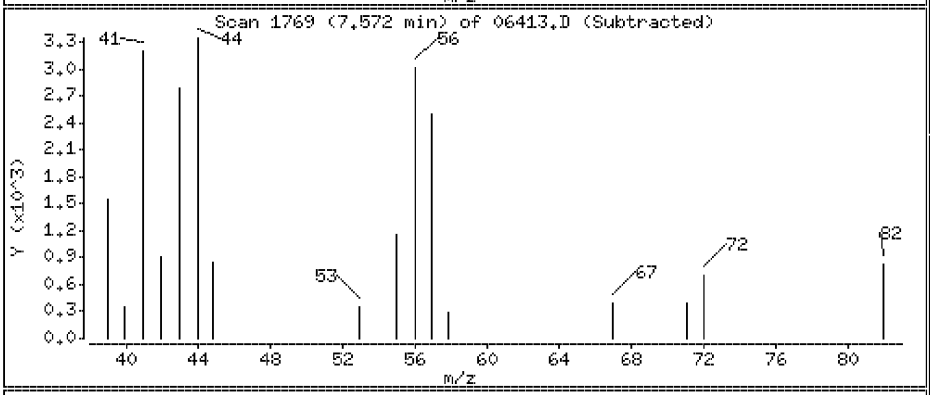
Column phase: J&W DB-5

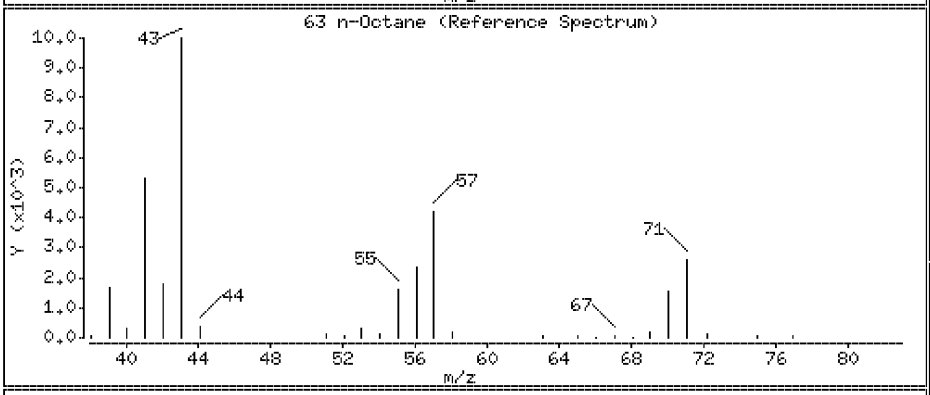
Column diameter: 0.32

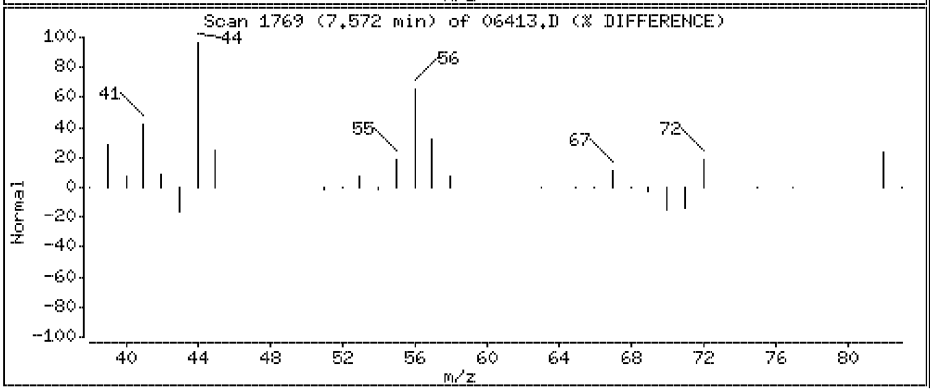
63 n-Octane

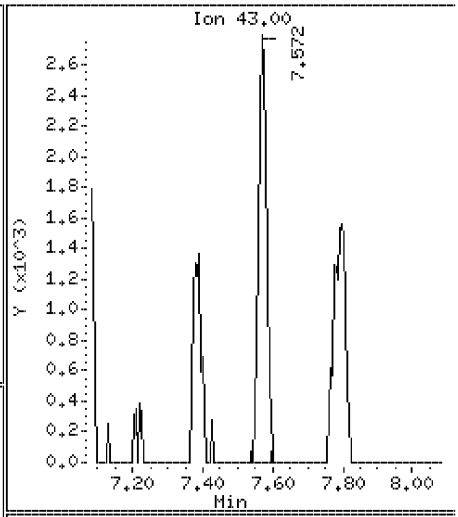
Concentration: 0.240 ppbv

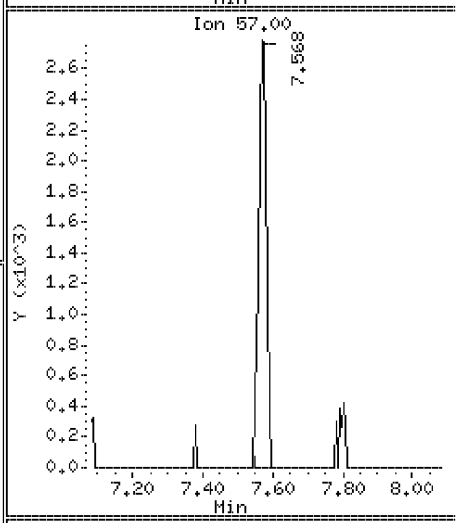


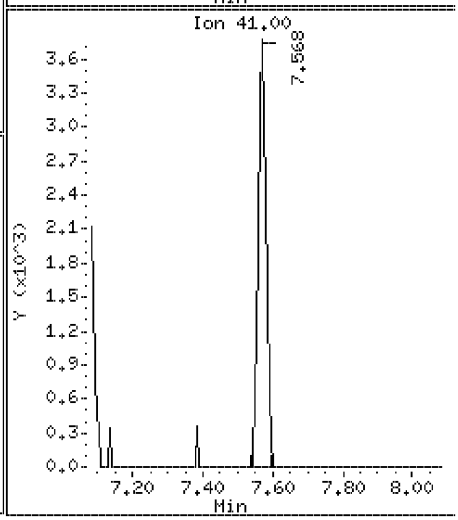












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

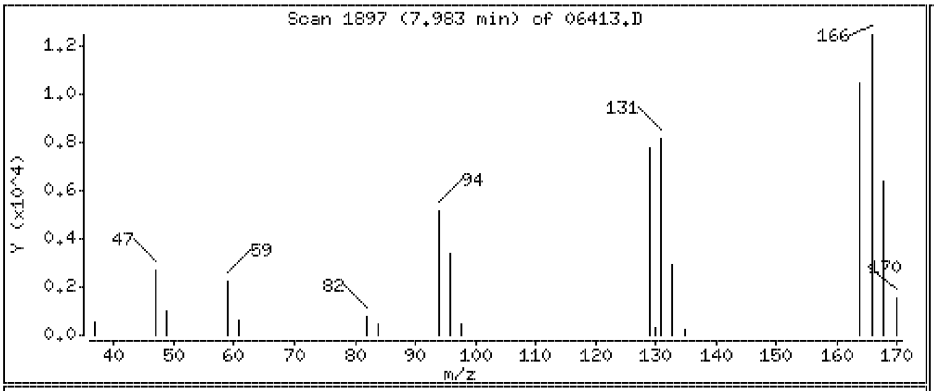
Operator: NCK

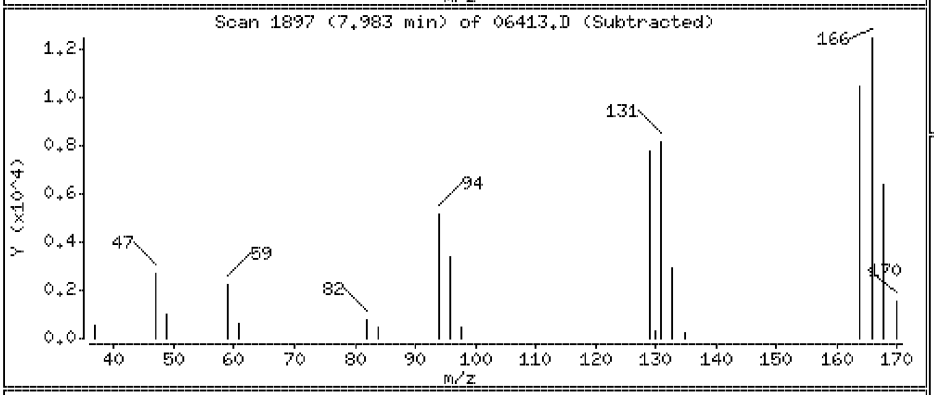
Column phase: J&W DB-5

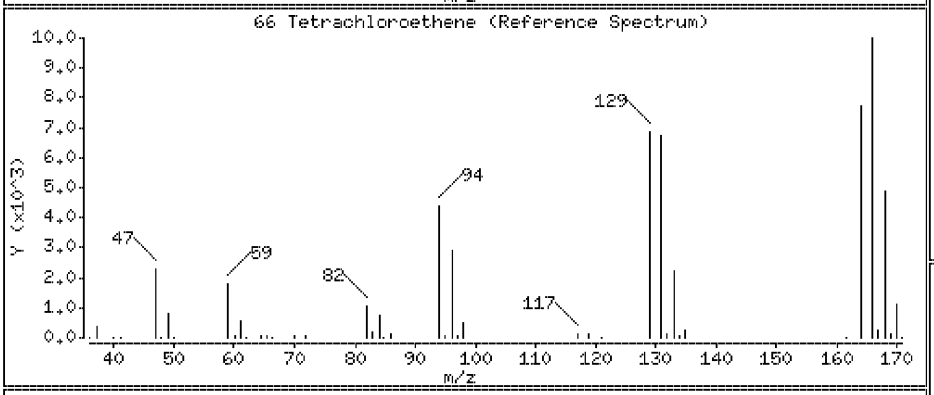
Column diameter: 0.32

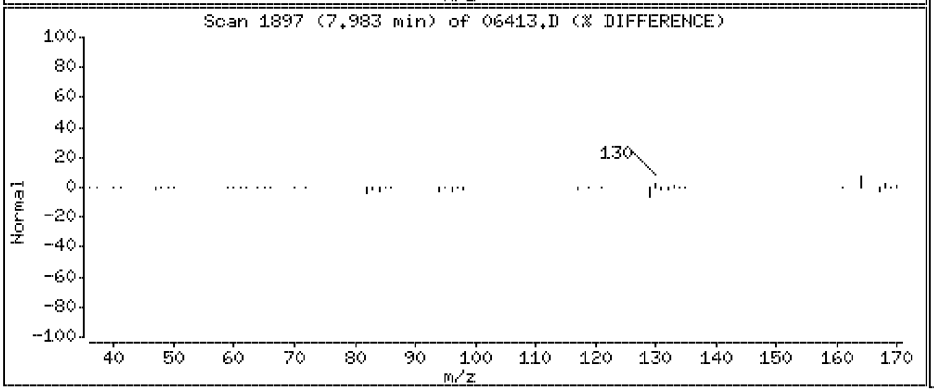
66 Tetrachloroethene

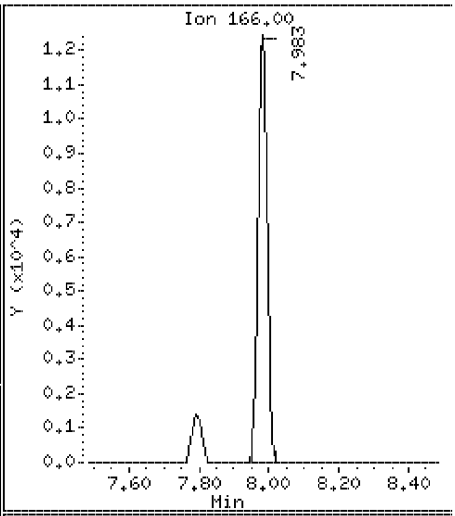
Concentration: 1.22 ppbv

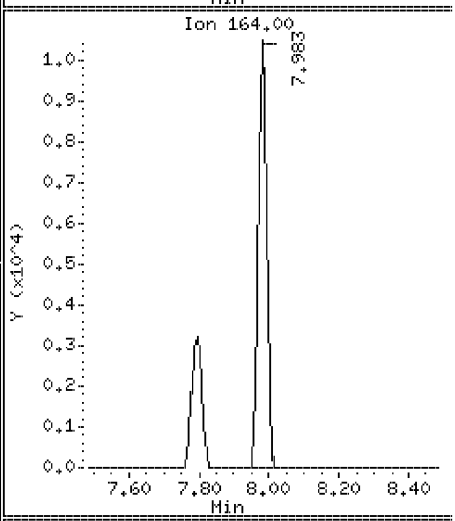


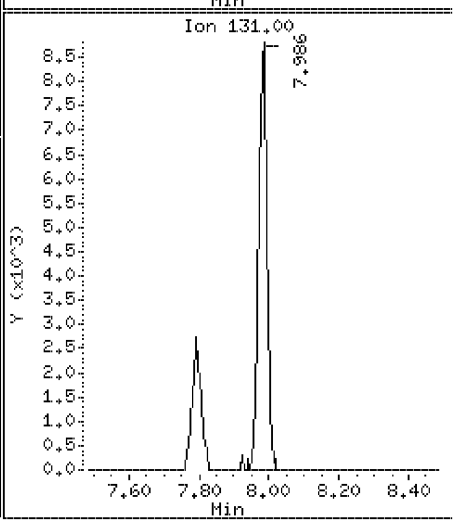












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

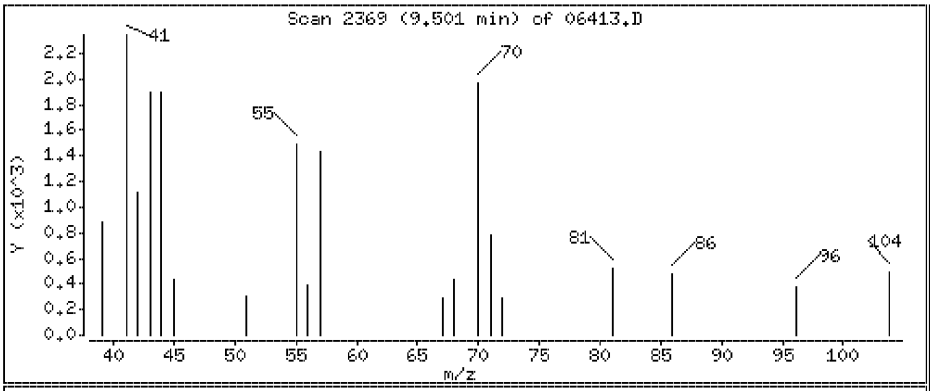
Operator: NCK

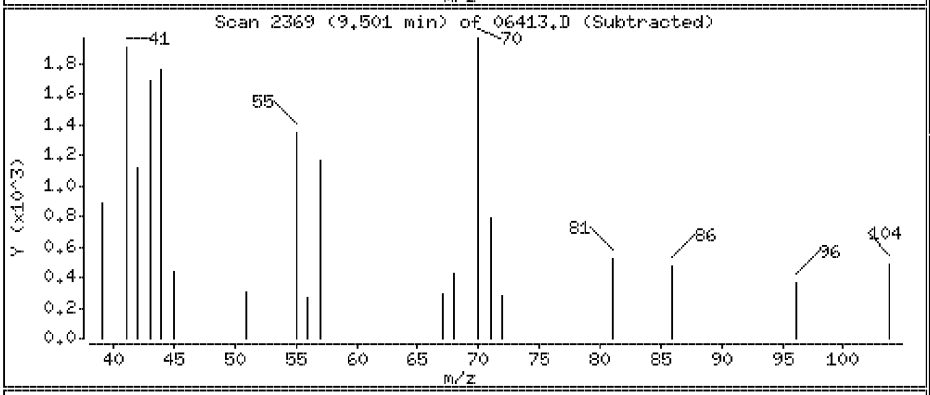
Column phase: J&W DB-5

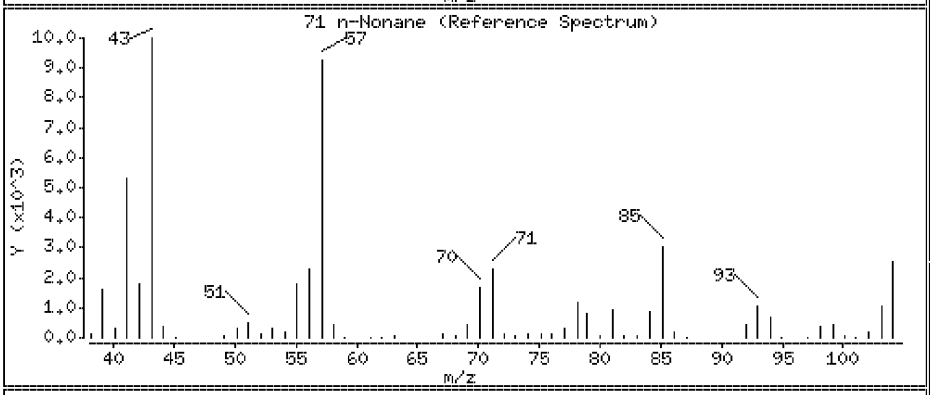
Column diameter: 0.32

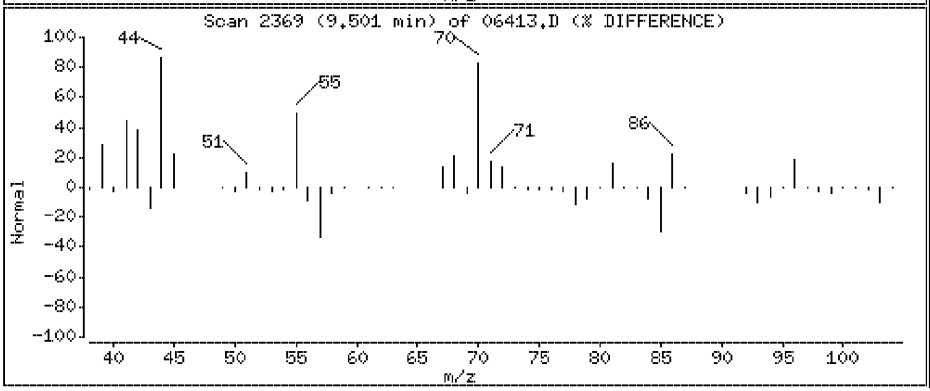
71 n-Nonane

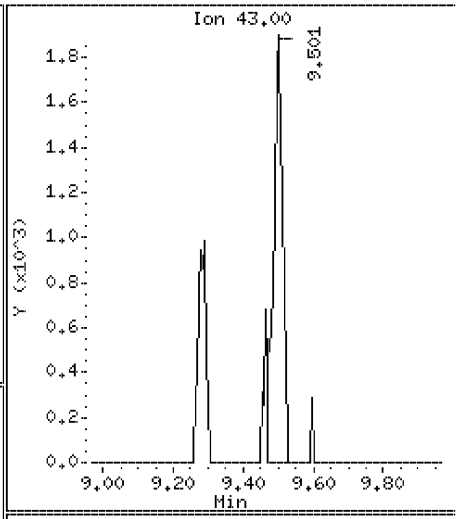
Concentration: 0.224 ppbv

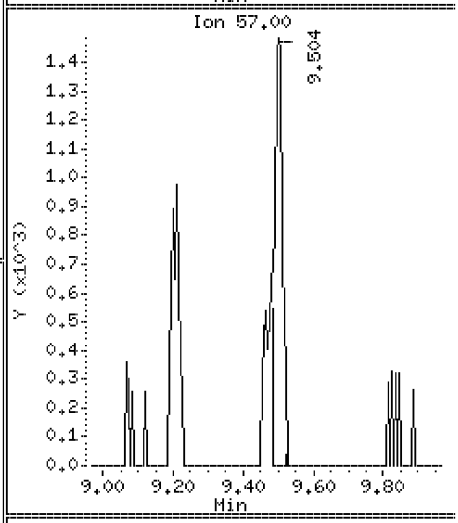


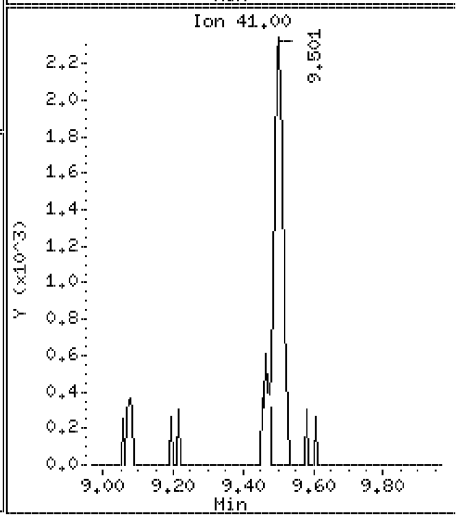












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06413.D

Date : 05-MAR-2017 15:16

Client ID:

Instrument: 10airB.i

Sample Info:

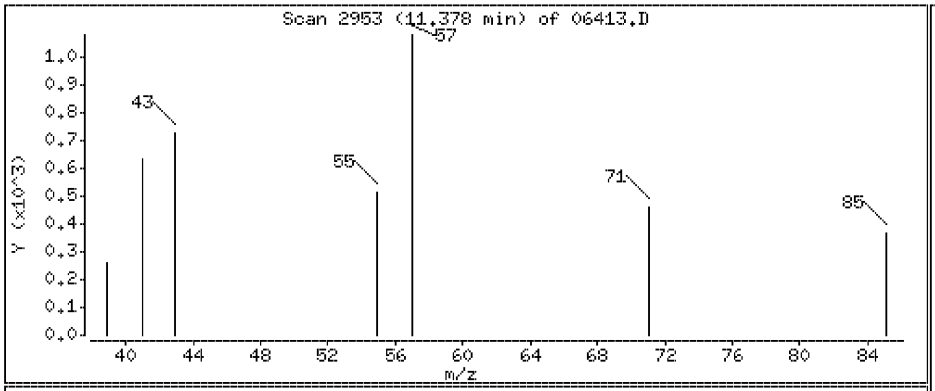
Operator: NCK

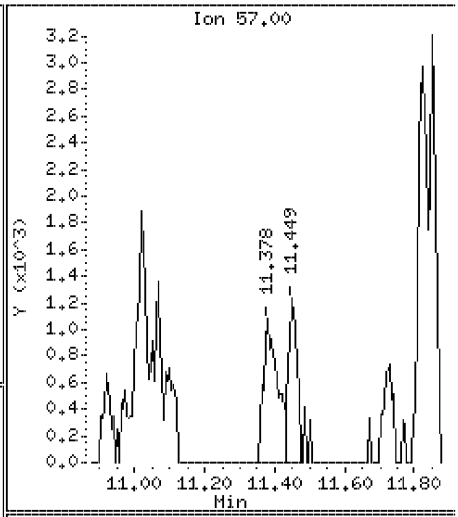
Column phase: J&W DB-5

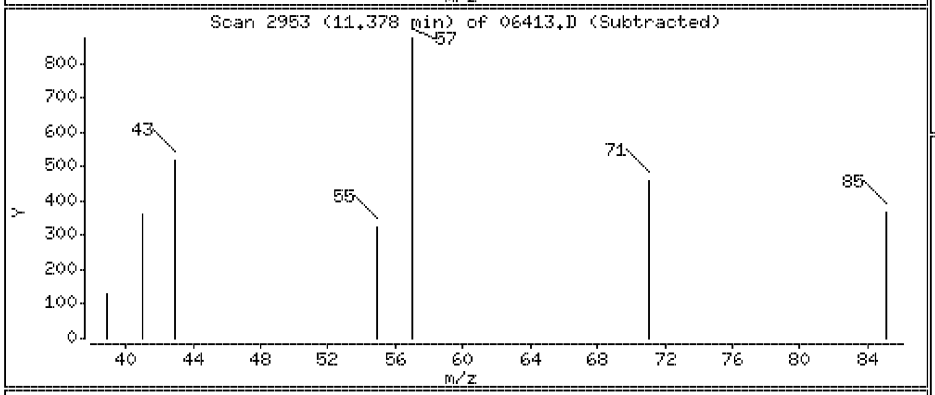
Column diameter: 0.32

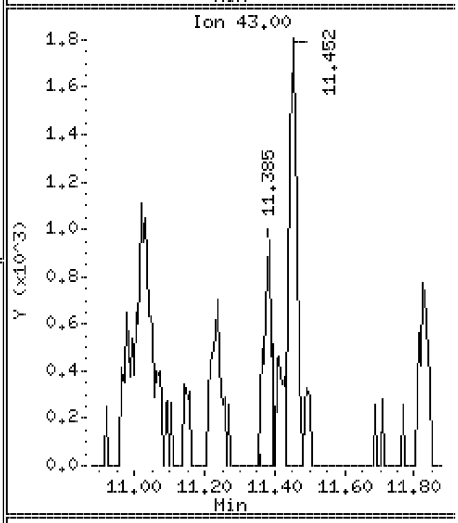
80 n-Decane

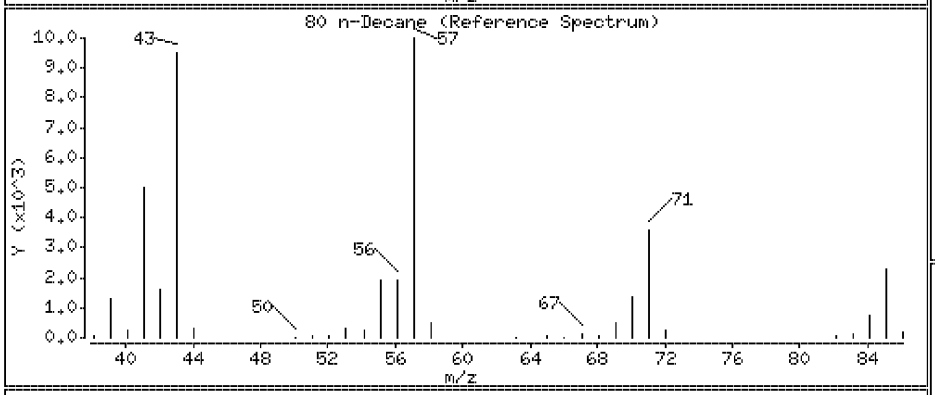
Concentration: 0.572 ppbv

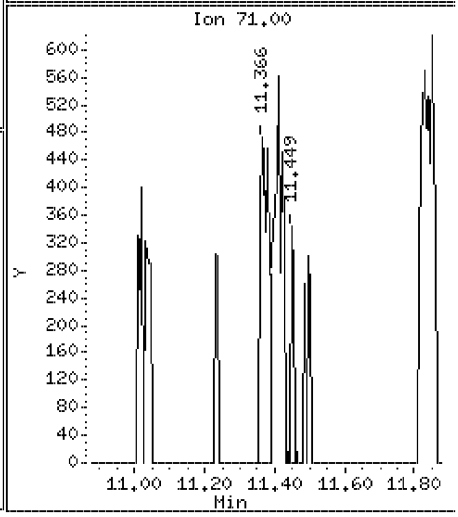


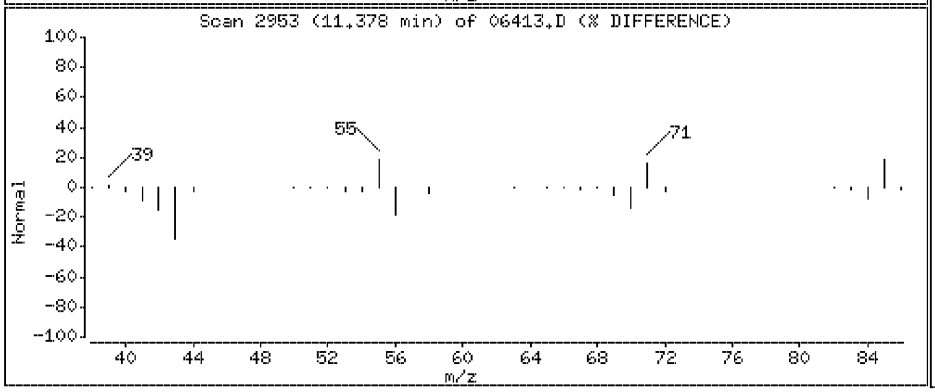






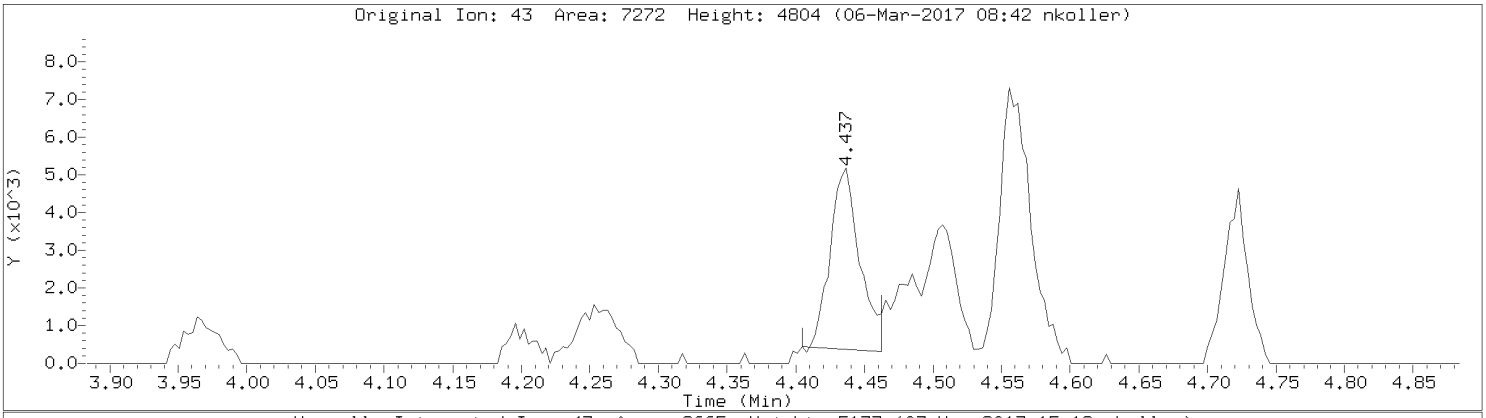


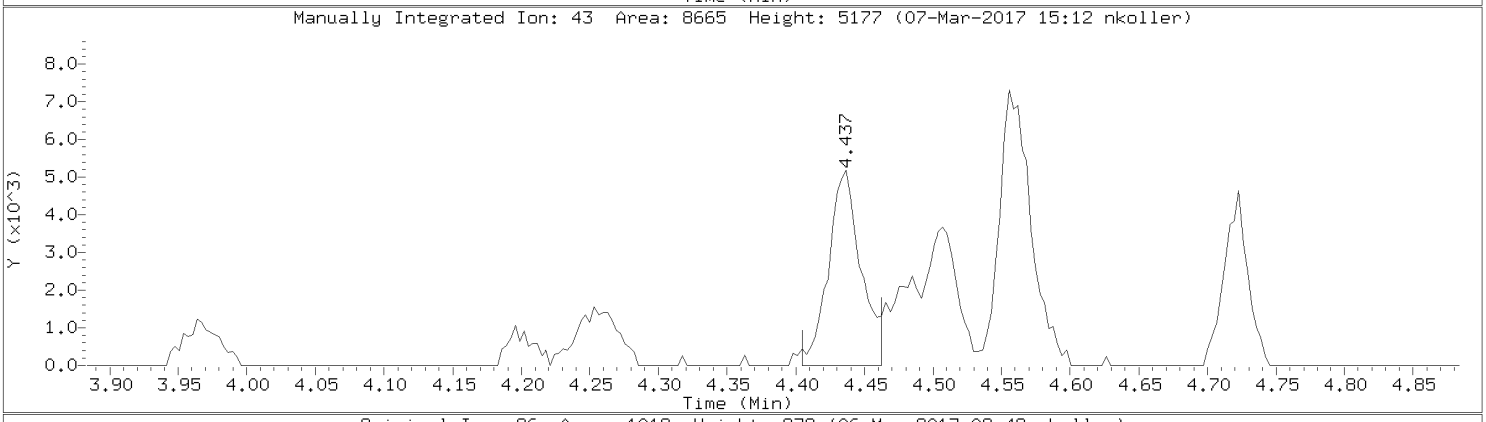


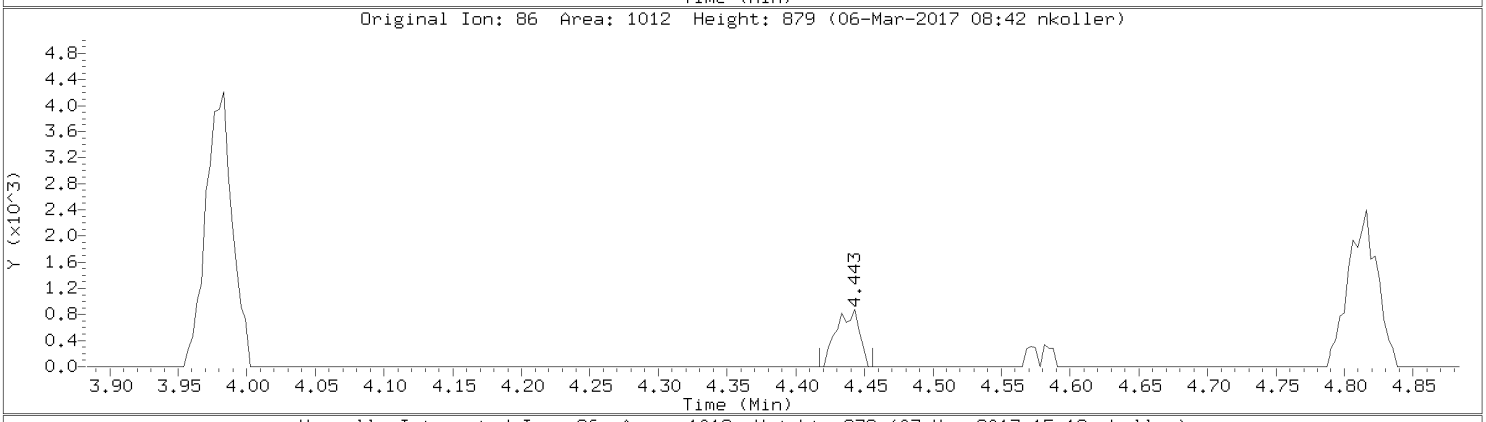


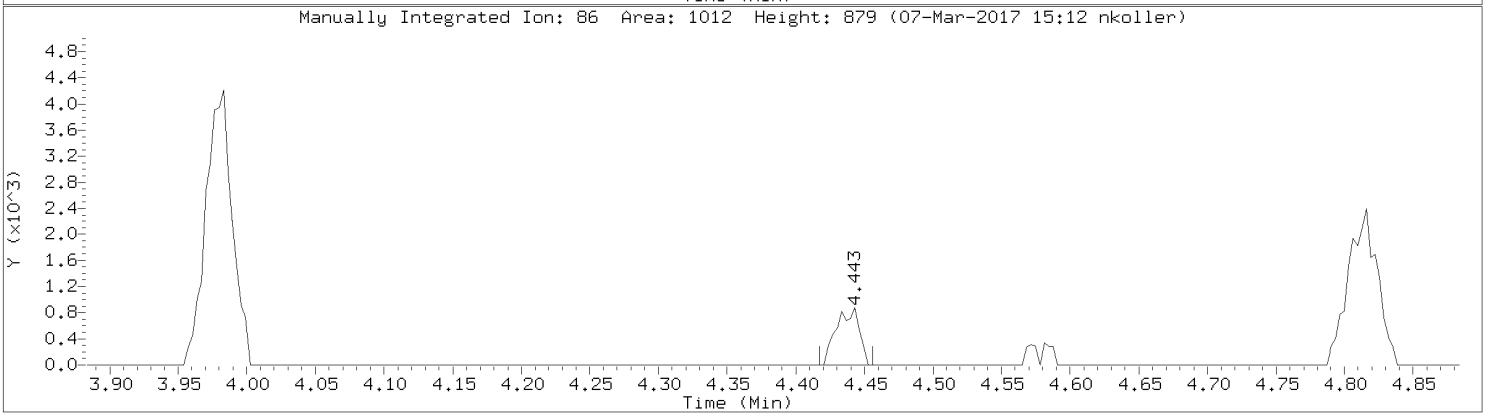
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06413.D
Injection Date: 05-MAR-2017 15:16
Instrument: 10airB.i
Lab Sample ID: 10379458013

Compound: Vinyl Acetate
CAS Number: 108-05-4









Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-12_20170215 **Lab ID: 10379458013** Collected: 02/15/17 16:21 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**2.6J**	ug/m3	4.6	0.44	1.83		03/05/17 15:16	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/05/17 15:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/05/17 15:16	79-34-5	
Tetrachloroethene	**8.4**	ug/m3	1.3	0.51	1.83		03/05/17 15:16	127-18-4	
Toluene	**1.6**	ug/m3	1.4	0.28	1.83		03/05/17 15:16	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/05/17 15:16	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/05/17 15:16	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/05/17 15:16	79-00-5	
Trichloroethene	**4.0**	ug/m3	1.0	0.51	1.83		03/05/17 15:16	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.1	0.24	1.83		03/05/17 15:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/05/17 15:16	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/05/17 15:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/05/17 15:16	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/05/17 15:16	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/05/17 15:16	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/05/17 15:16	95-47-6	

Sample: IA-C20_20170215DUP **Lab ID: 10379458014** Collected: 02/15/17 16:03 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**33.5**	ug/m3	4.6	1.6	1.92		03/05/17 15:48	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 15:48	107-05-1	
Benzene	**1.5**	ug/m3	0.62	0.23	1.92		03/05/17 15:48	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 15:48	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 15:48	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 15:48	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 15:48	106-99-0	
2-Butanone (MEK)	**3.6J**	ug/m3	5.8	0.44	1.92		03/05/17 15:48	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 15:48	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/05/17 15:48	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 15:48	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/05/17 15:48	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 15:48	75-00-3	
Chloroform	**3.3**	ug/m3	0.95	0.36	1.92		03/05/17 15:48	67-66-3	
Chloromethane	**0.83**	ug/m3	0.81	0.21	1.92		03/05/17 15:48	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 15:48	76-15-3	CL
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/05/17 15:48	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 15:48	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 15:48	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 15:48	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 15:48	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 15:48	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-C20_20170215DUP **Lab ID: 10379458014** Collected: 02/15/17 16:03 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 15:48	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.9	0.92	1.92		03/05/17 15:48	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 15:48	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 15:48	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 15:48	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/05/17 15:48	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/05/17 15:48	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 15:48	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 15:48	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 15:48	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 15:48	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 15:48	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 15:48	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/05/17 15:48	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.9	0.36	1.92		03/05/17 15:48	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/05/17 15:48	87-68-3	
n-Hexane	**1.7**	ug/m3	1.4	0.69	1.92		03/05/17 15:48	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 15:48	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 15:48	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 15:48	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 15:48	108-87-2	
Methylene Chloride	**5.2J**	ug/m3	6.8	1.0	1.92		03/05/17 15:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 15:48	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/05/17 15:48	1634-04-4	
2-Propanol	**89.6**	ug/m3	4.8	0.46	1.92		03/05/17 15:48	67-63-0	
Styrene	**0.85J**	ug/m3	1.7	0.37	1.92		03/05/17 15:48	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 15:48	79-34-5	
Tetrachloroethene	**1.2J**	ug/m3	1.3	0.53	1.92		03/05/17 15:48	127-18-4	
Toluene	**3.0**	ug/m3	1.5	0.30	1.92		03/05/17 15:48	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/05/17 15:48	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/05/17 15:48	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/05/17 15:48	79-00-5	
Trichloroethene	**<0.53**	ug/m3	1.1	0.53	1.92		03/05/17 15:48	79-01-6	
Trichlorofluoromethane	**1.1J**	ug/m3	2.2	0.25	1.92		03/05/17 15:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/05/17 15:48	76-13-1	
1,2,4-Trimethylbenzene	**<0.24**	ug/m3	1.9	0.24	1.92		03/05/17 15:48	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/05/17 15:48	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 15:48	75-01-4	
m&p-Xylene	**2.1J**	ug/m3	3.4	1.5	1.92		03/05/17 15:48	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/05/17 15:48	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D
Report Date: 07-Mar-2017 15:13

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06414.D
Lab Smp Id: 10379458014
Inj Date : 05-MAR-2017 15:48
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 14
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	3.002	2.979	(0.536)	12342	1.67806	3.22(Q)	
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.054	3.021	(0.545)	10594	0.22028	0.423	
6	Chloromethane	50	3.144	3.124	(0.561)	2964	0.20563	0.395(M)	
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.555	3.542	(0.635)	1591861	345.332	663(A)	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.555	3.578	(0.635)	346498	27.6609	53.1(Q)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.655	3.655	(0.653)	3523	0.10243	0.197(M)	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.706	3.713	(0.662)	143632	7.21583	13.9	
19	Isopropyl Alcohol	45	3.777	3.764	(0.674)	379331	18.6858	35.9	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D
Report Date: 07-Mar-2017 15:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.989	3.992	(0.712)	10849	0.77222	1.48	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.426	4.385	(0.790)	9457	0.46212	0.887(H)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.478	4.481	(0.800)	364728	9.13797	9.14	
	33 Methyl Ethyl Ketone	72	4.555	4.552	(0.813)	3264	0.61919	1.19(Q)	
	34 n-Hexane	57	4.578	4.578	(0.817)	4812	0.24054	0.462(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.713	4.713	(0.842)	8866	0.34435	0.661(Q)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	4.816	4.838	(0.860)	9034	0.34759	0.667	
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.449	5.465	(0.973)	9983	0.24674	0.474	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						(D)
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1254535	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.873	5.889	(1.049)	2492	0.11023	0.212	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1072779	9.55413	9.55	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.147	7.153	(1.276)	20917	0.41282	0.793	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.561	7.584	(0.875)	10906	0.39062	0.750(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.976	7.986	(0.923)	2660	0.09385	0.180	
*	67 Chlorobenzene - d5	117	8.639	8.645	(1.000)	816257	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.069	9.082	(1.050)	11865	0.25180	0.483	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	9.497	9.507	(1.099)	1032	0.10250	0.197(QH)	
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D
Report Date: 07-Mar-2017 15:13

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppbv)	(ppbv)		
	78	4-Ethyltoluene	105	10.909	10.912	(1.263)	1932	0.12691	0.244	(M)	
	79	1,3,5-Trimethylbenzene	105	Compound Not Detected.							(D)
	80	n-Decane	57	11.388	11.378	(2.033)	11122	0.57580	1.11	(Q)	
	81	Tert-Butyl Benzene	119	Compound Not Detected.							
	82	1,2,4-Trimethylbenzene	105	Compound Not Detected.							(D)
	83	1,3-Dichlorobenzene	146	Compound Not Detected.							(D)
	84	Sec- Butylbenzene	105	Compound Not Detected.							
$	85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	468141	10.4113	10.4		
	86	Benzyl Chloride	91	Compound Not Detected.							
	87	1,4-Dichlorobenzene	146	Compound Not Detected.							(D)
	88	p-Isopropyltoluene	119	Compound Not Detected.							(D)
	89	1,2,3-Trimethylbenzene	105	Compound Not Detected.							(D)
	90	1,2-Dichlorobenzene	146	Compound Not Detected.							
	91	N-Butylbenzene	91	Compound Not Detected.							(D)
	92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.							
	93	1,2,4-Trichlorobenzene	180	Compound Not Detected.							
	94	Naphthalene	128	14.175	14.169	(1.641)	2964	0.42756	0.821		
	95	Hexachlorobutadiene	225	Compound Not Detected.							

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D
Report Date: 07-Mar-2017 15:13

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06414.D
Lab Smp Id: 10379458014
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

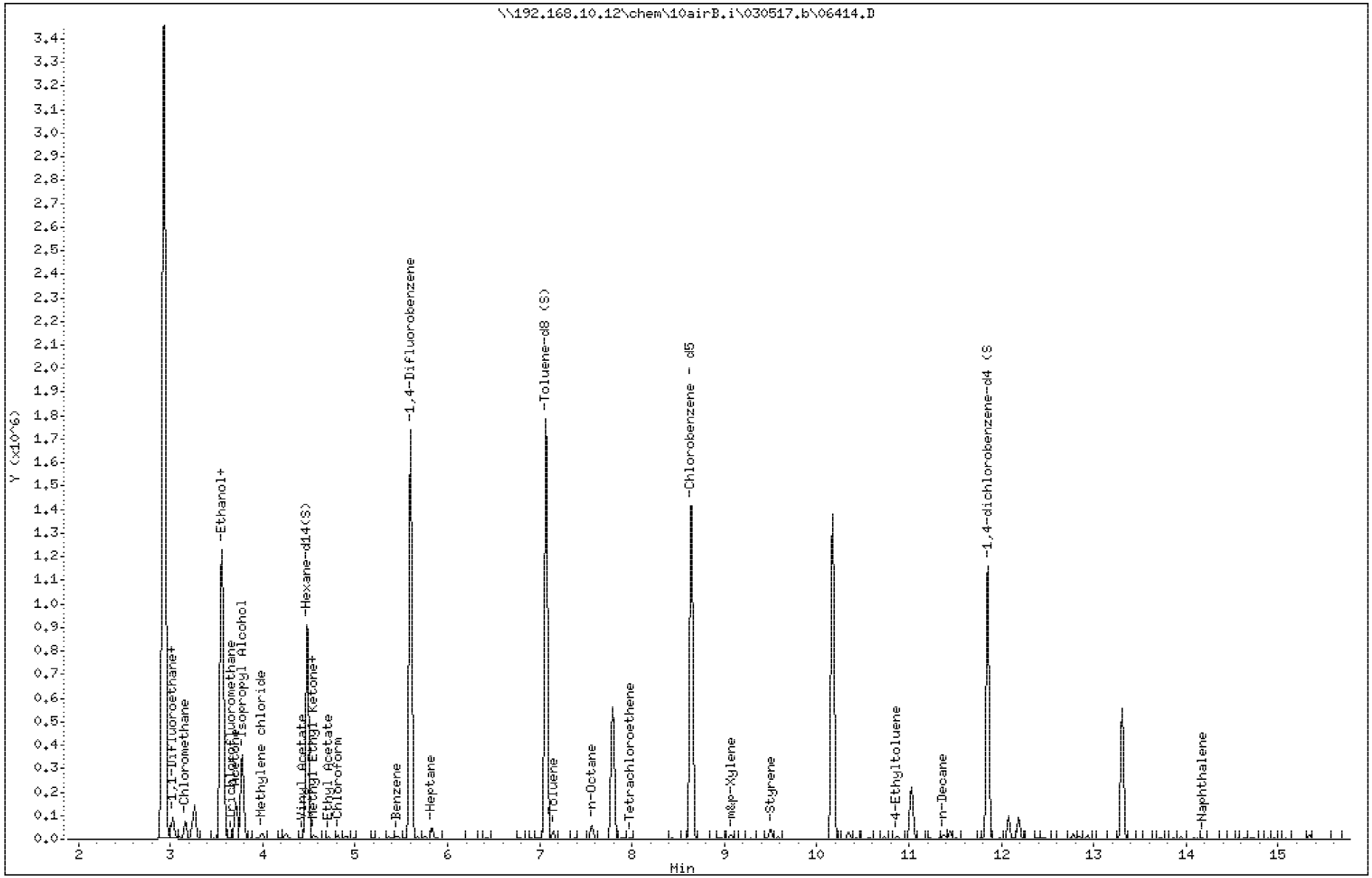
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1254535	-11.28
67 Chlorobenzene - d	951026	570616	1331436	816257	-14.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D
Date : 05-MAR-2017 15:48
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

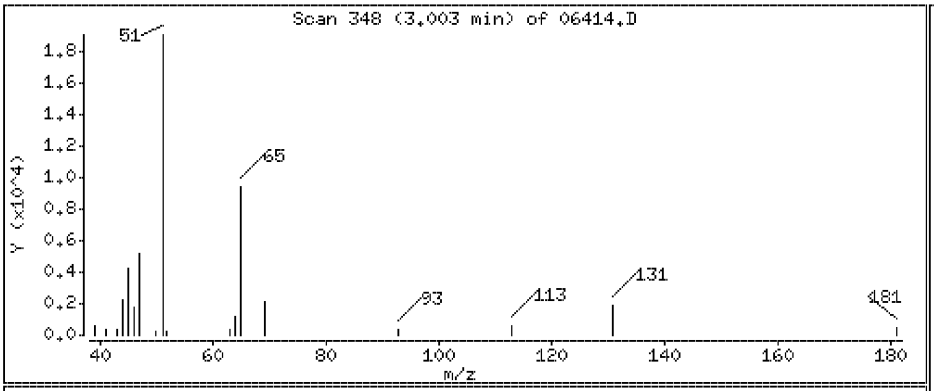
Operator: NCK

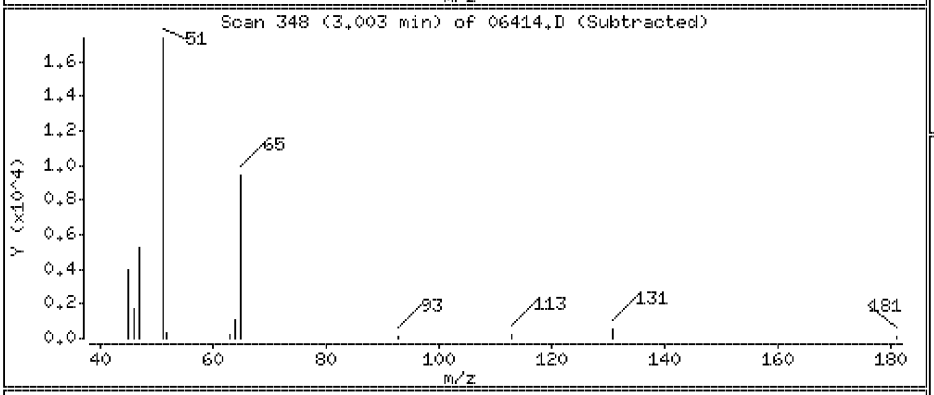
Column phase: J&W DB-5

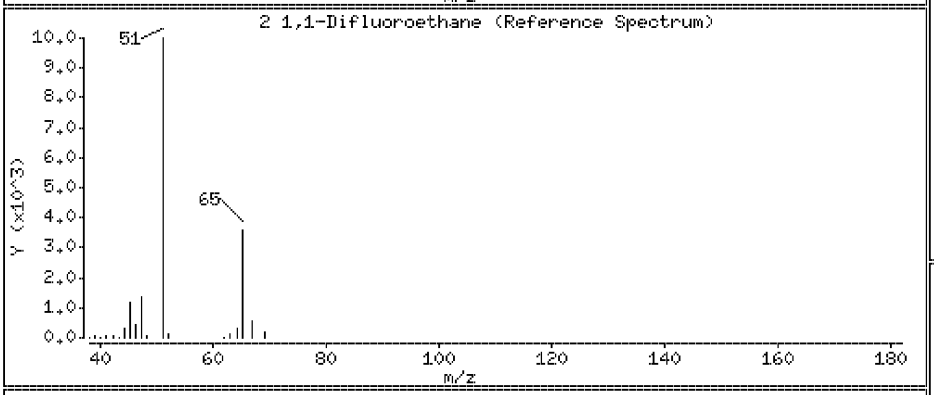
Column diameter: 0.32

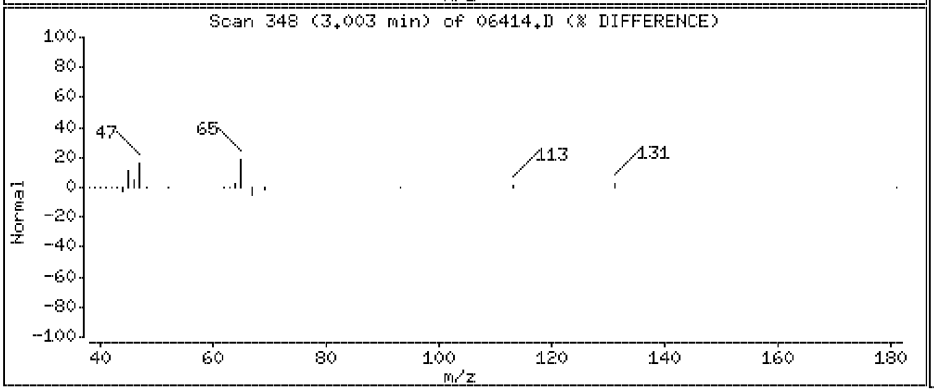
2 1,1-Difluoroethane

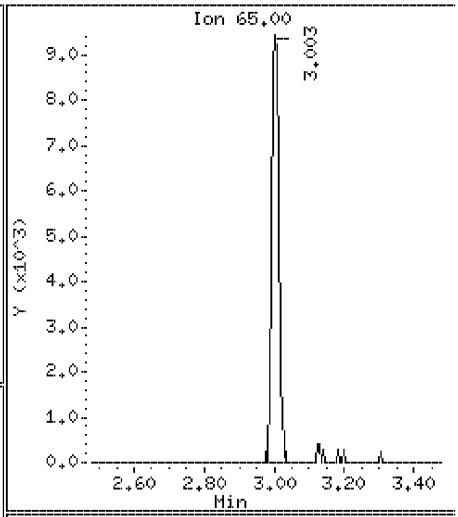
Concentration: 3.22 ppbv

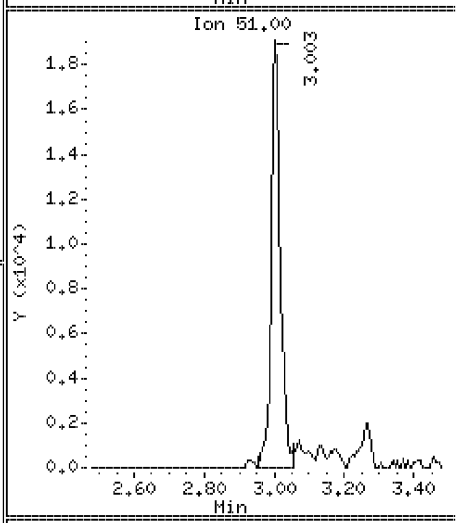


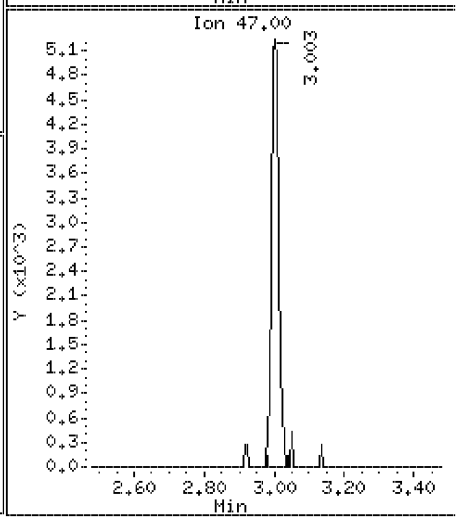












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

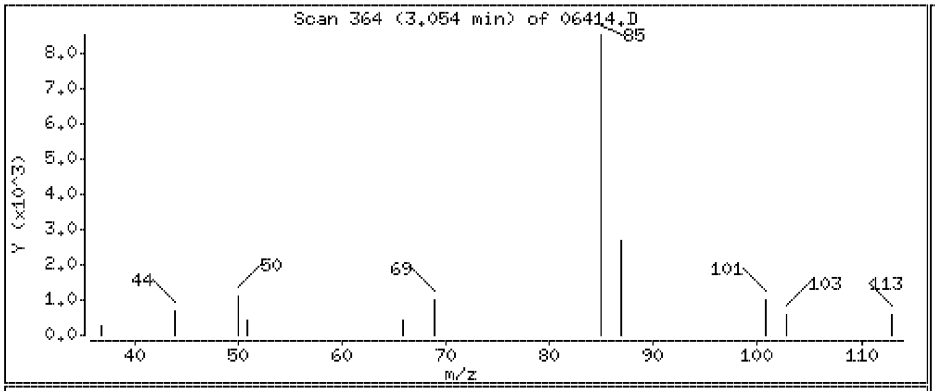
Operator: NCK

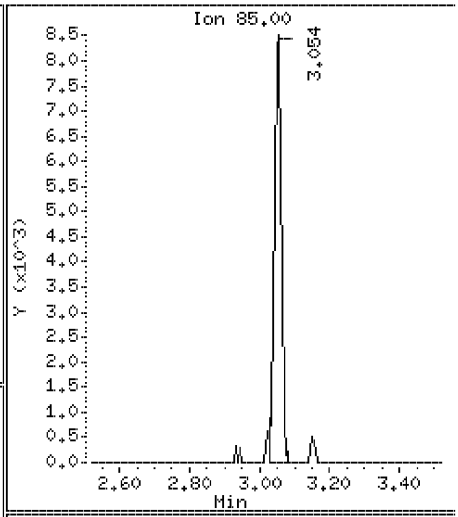
Column phase: J&W DB-5

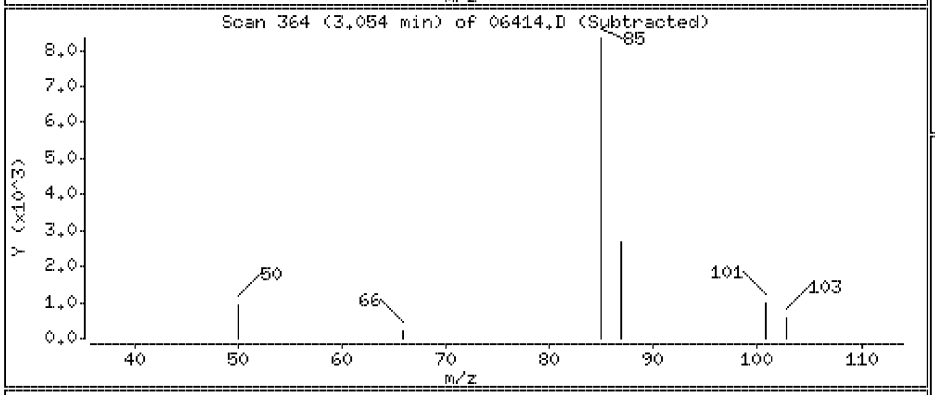
Column diameter: 0.32

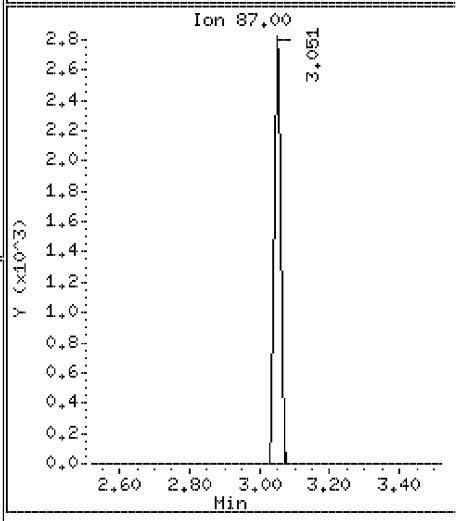
5 Dichlorodifluoromethane

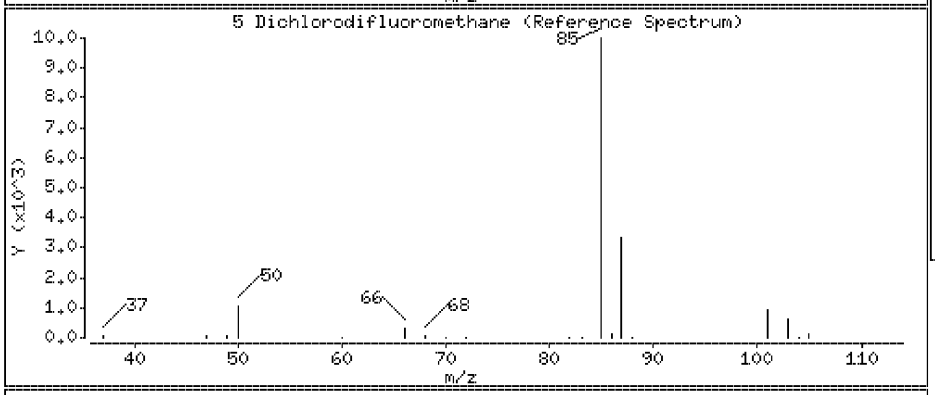
Concentration: 0.423 ppbv

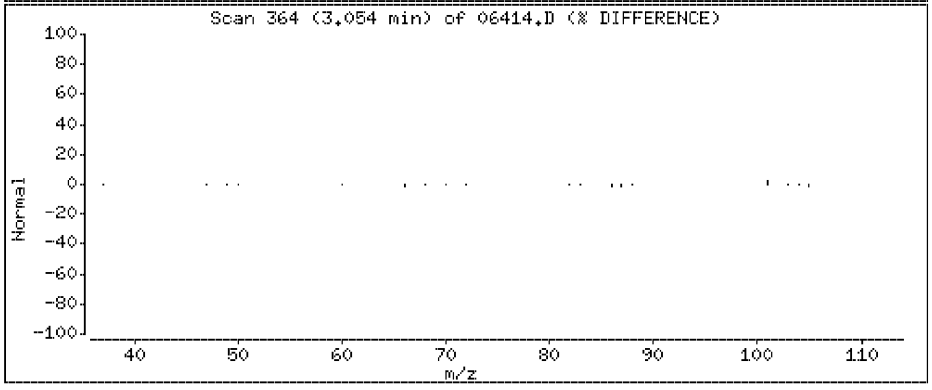












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

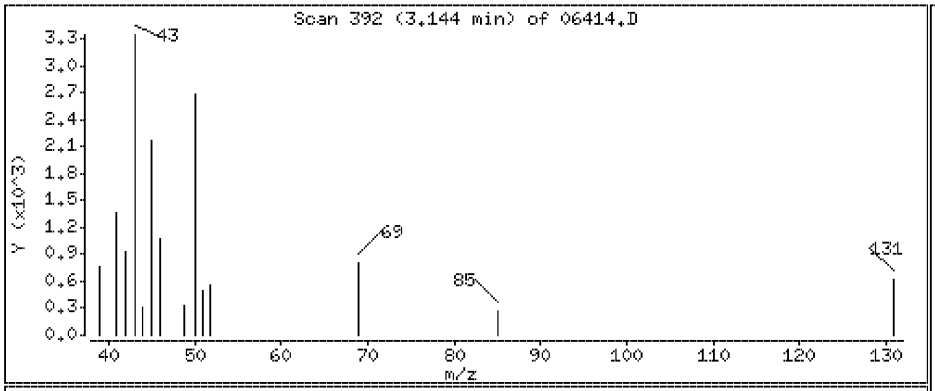
Operator: NCK

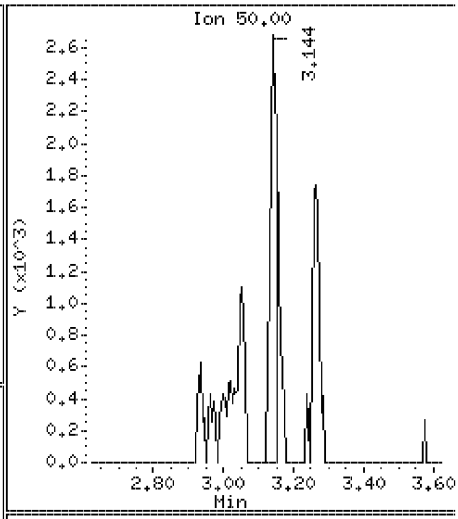
Column phase: J&W DB-5

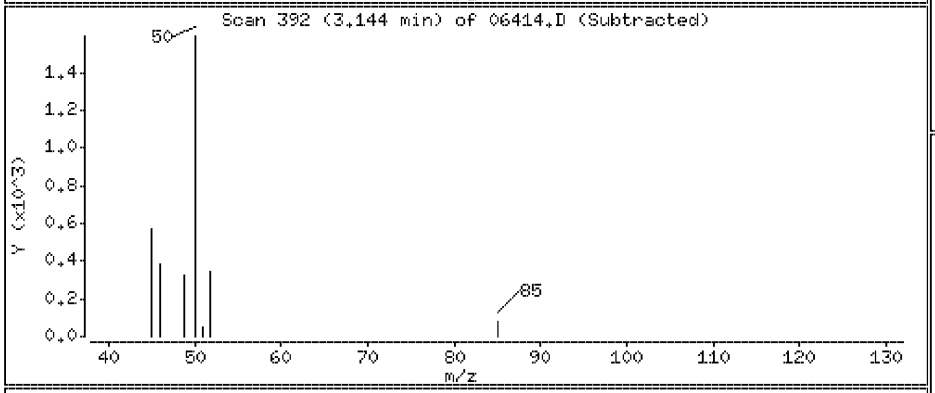
Column diameter: 0.32

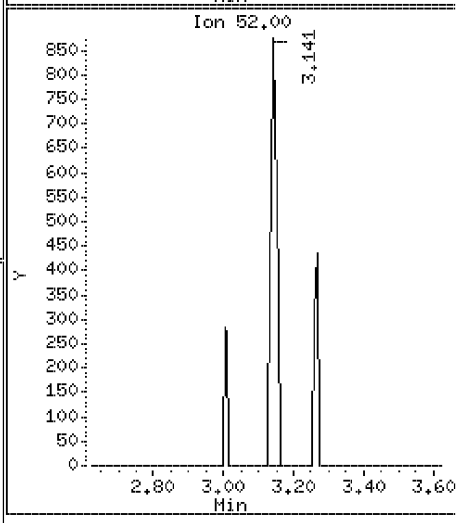
6 Chloromethane

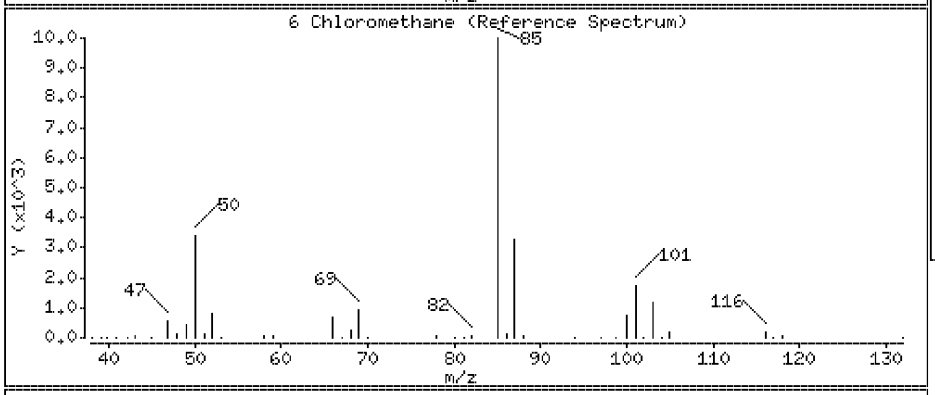
Concentration: 0.395 ppbv

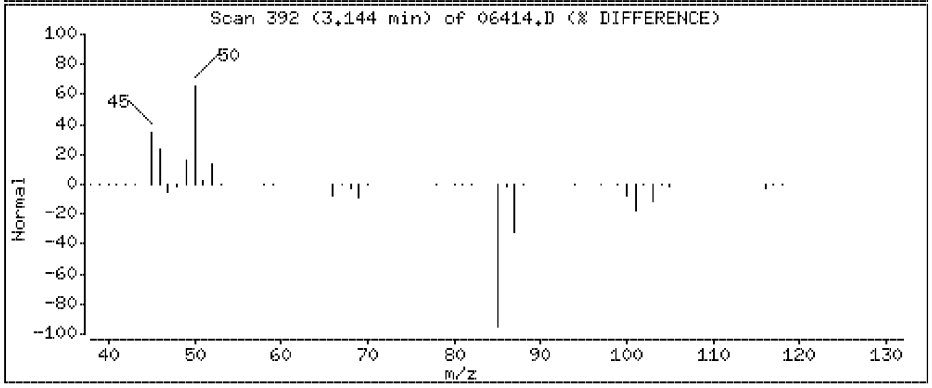












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

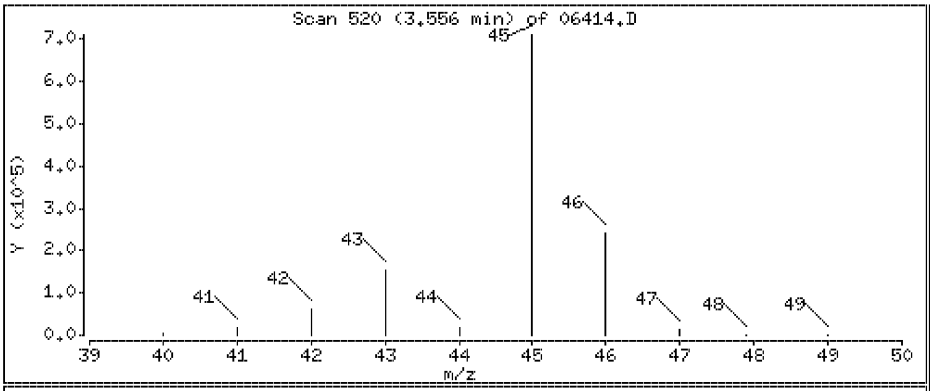
Operator: NCK

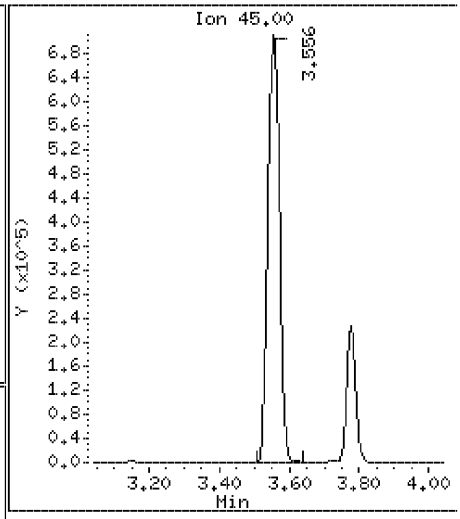
Column phase: J&W DB-5

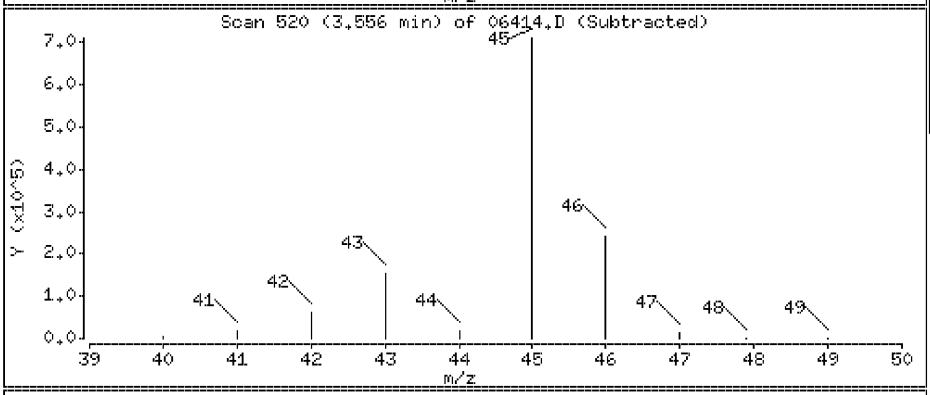
Column diameter: 0.32

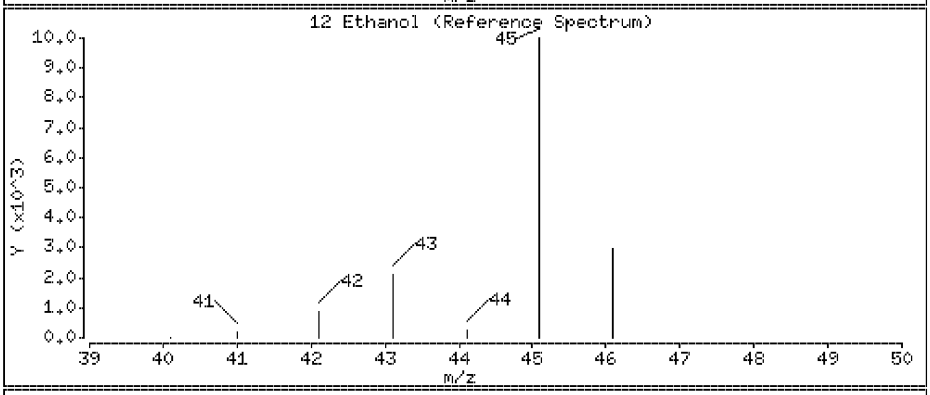
12 Ethanol

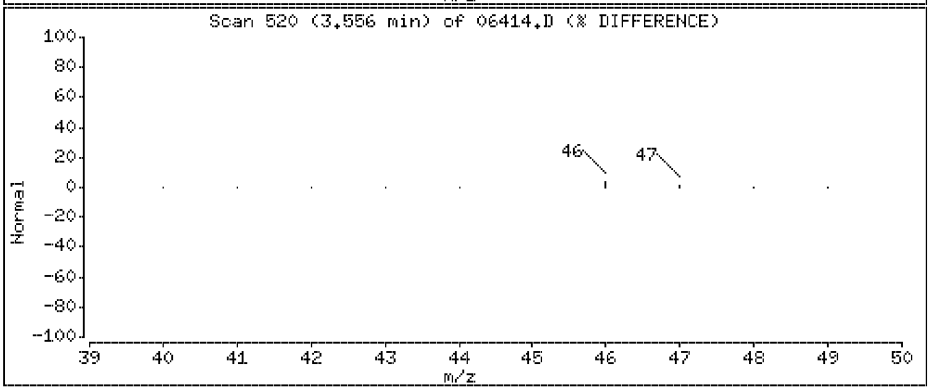
Concentration: 663 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

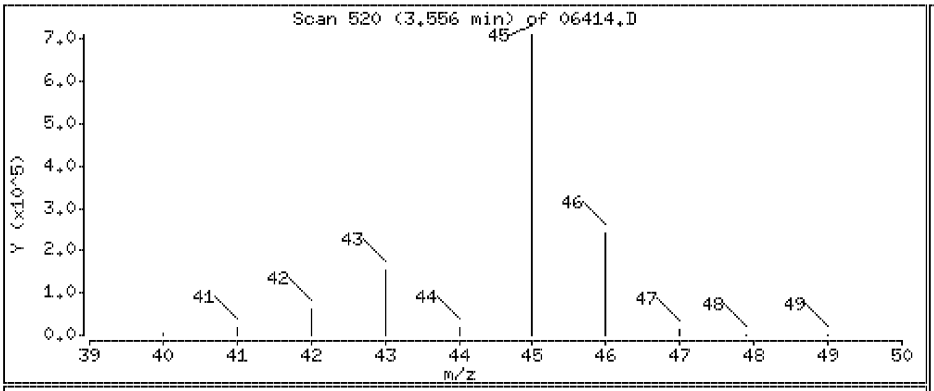
Operator: NCK

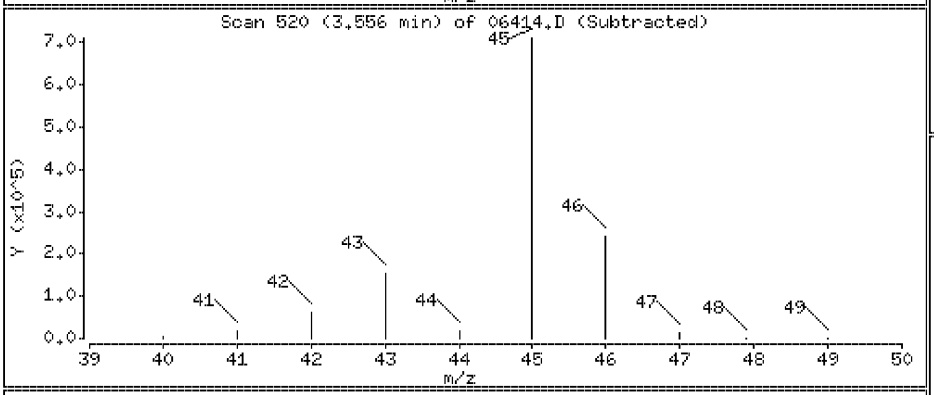
Column phase: J&W DB-5

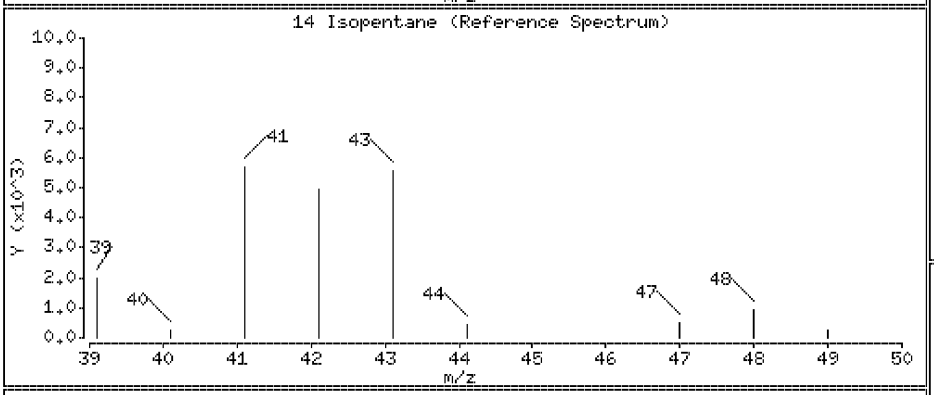
Column diameter: 0.32

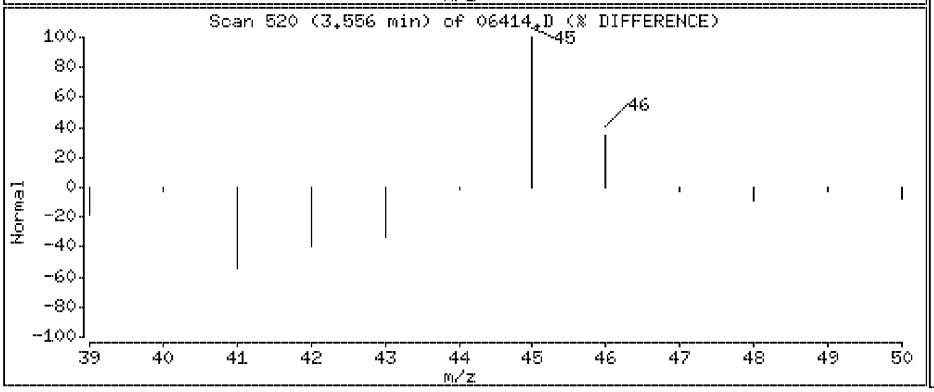
14 Isopentane

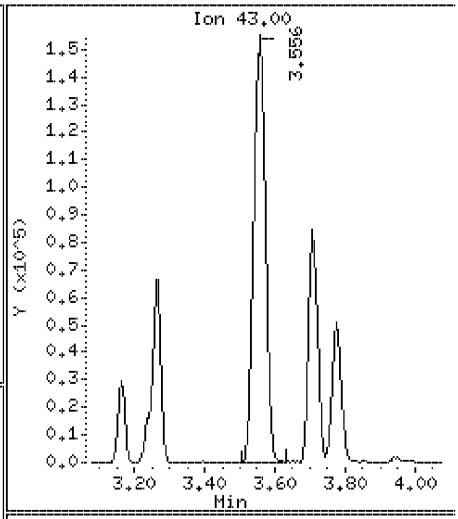
Concentration: 53.1 ppbv

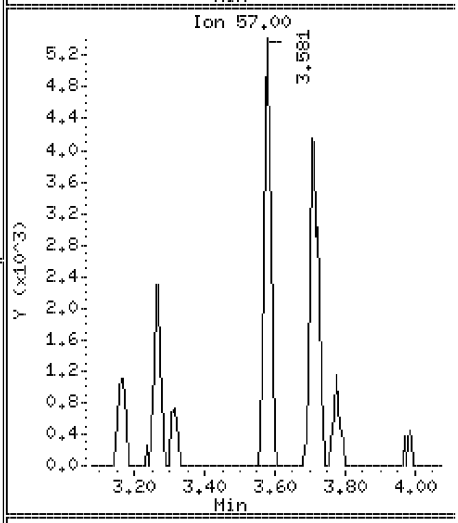


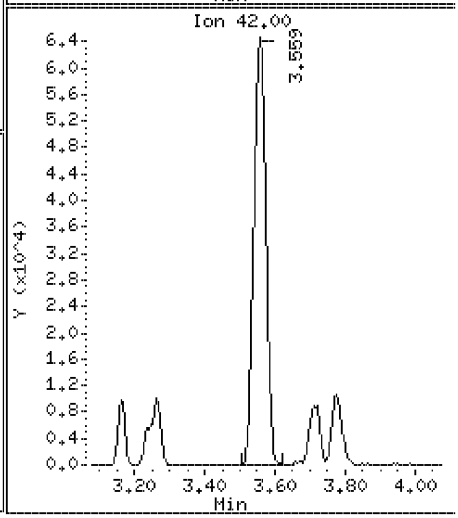












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

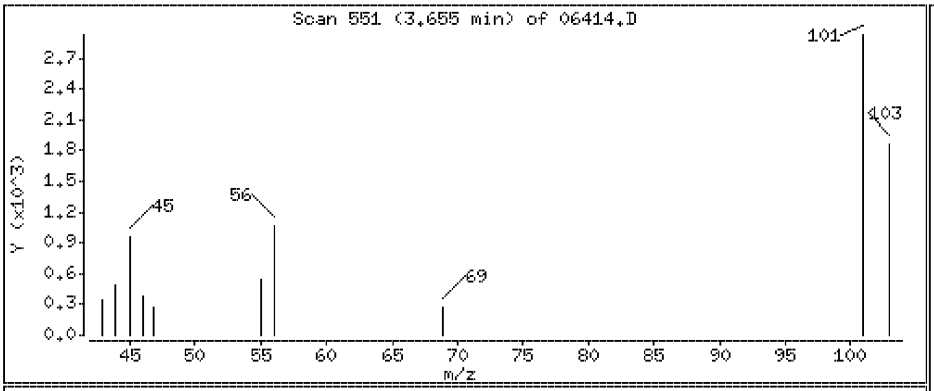
Operator: NCK

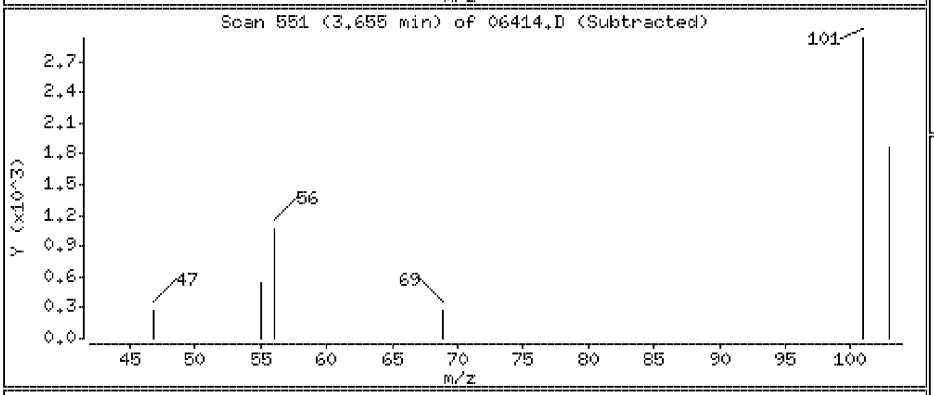
Column phase: J&W DB-5

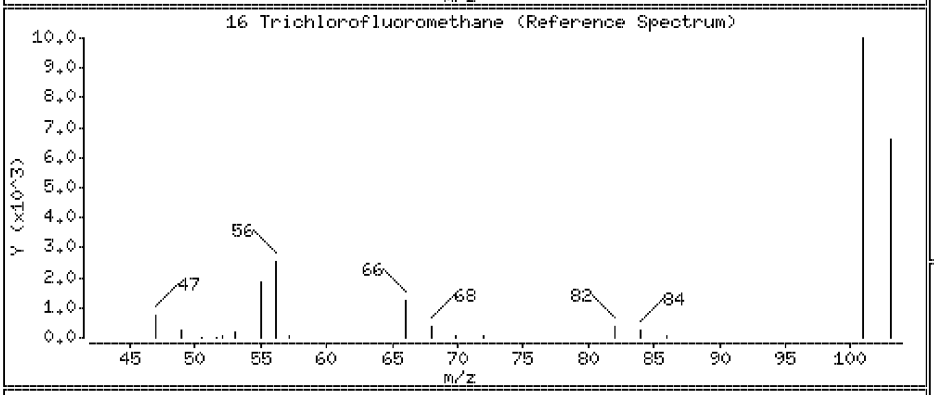
Column diameter: 0.32

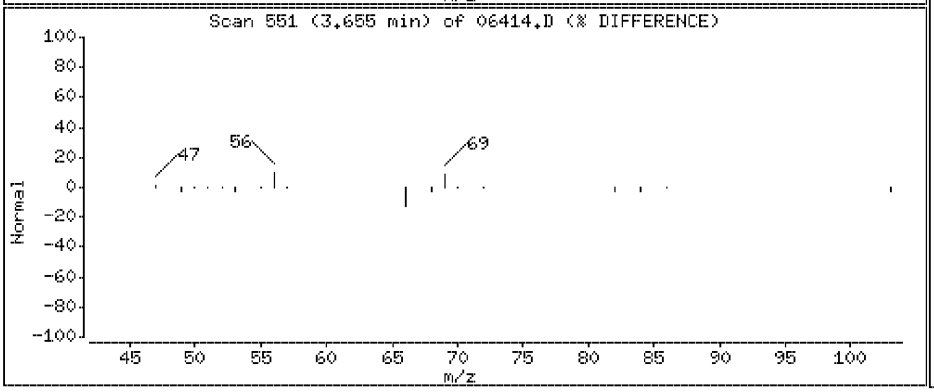
16 Trichlorofluoromethane

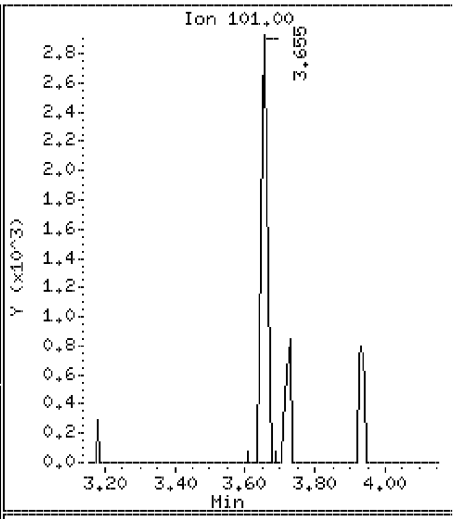
Concentration: 0.197 ppbv

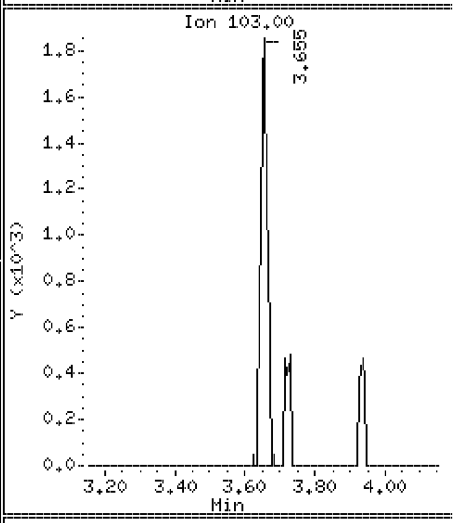


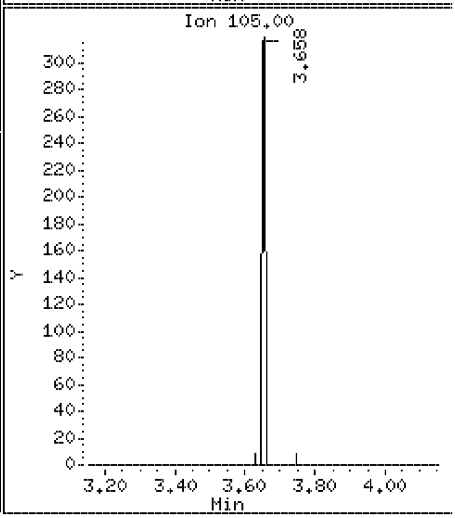












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

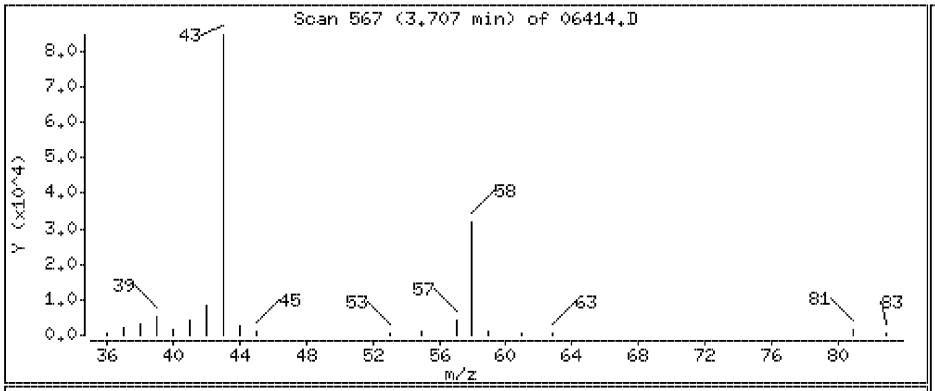
Operator: NCK

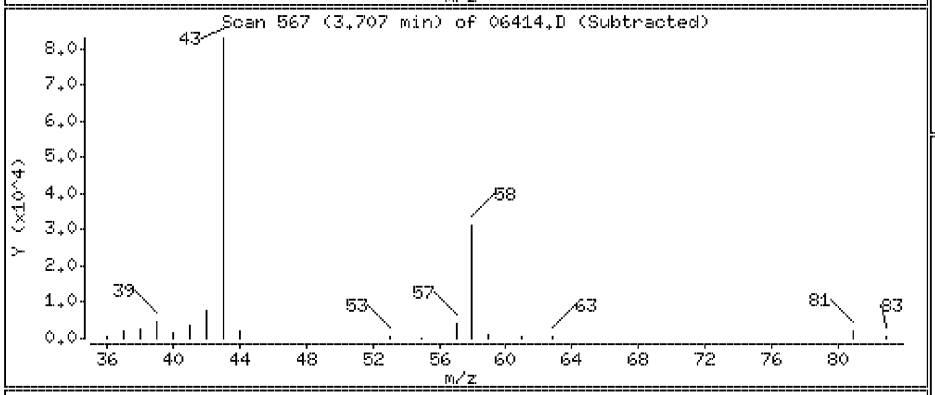
Column phase: J&W DB-5

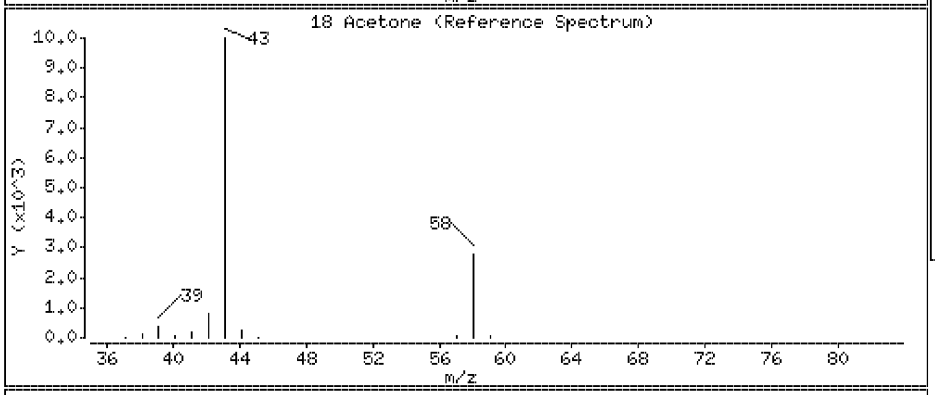
Column diameter: 0.32

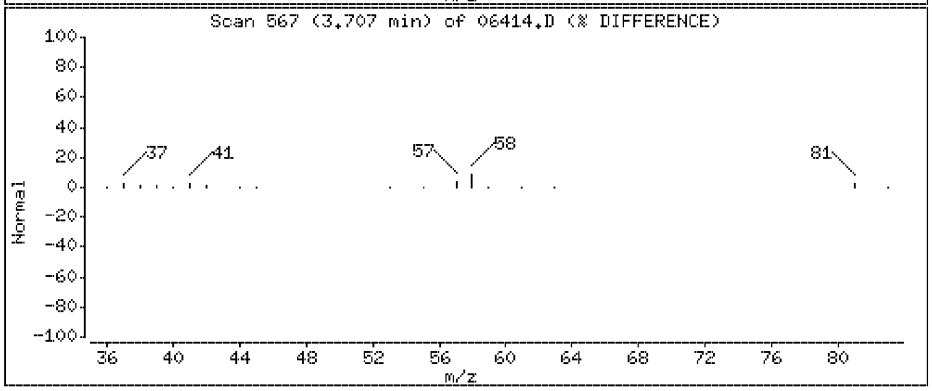
18 Acetone

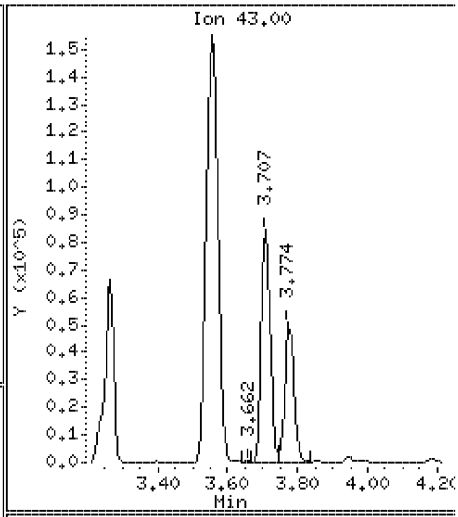
Concentration: 13.9 ppbv

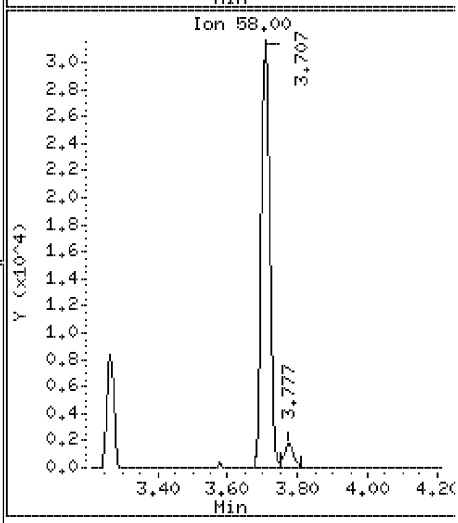












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

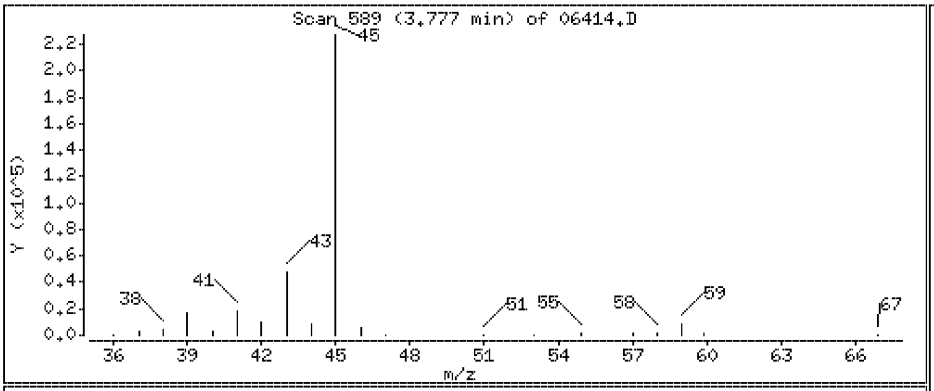
Operator: NCK

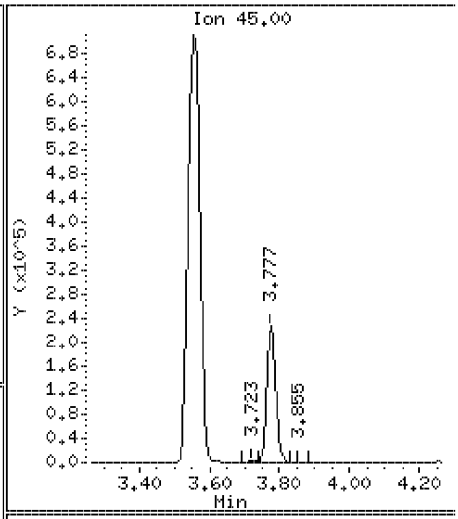
Column phase: J&W DB-5

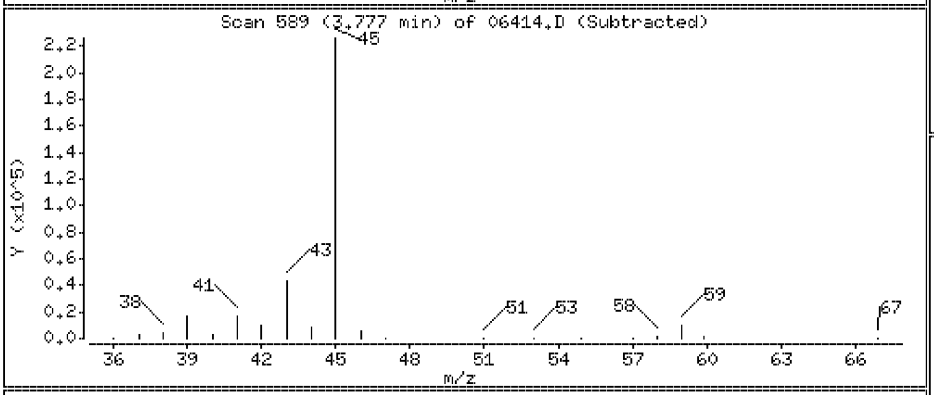
Column diameter: 0.32

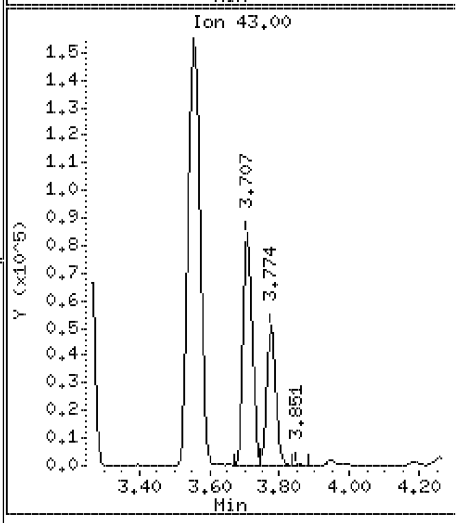
19 Isopropyl Alcohol

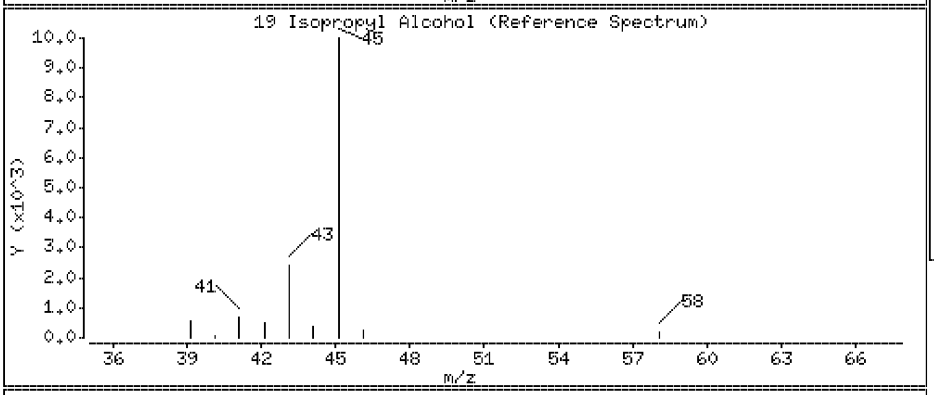
Concentration: 35.9 ppbv

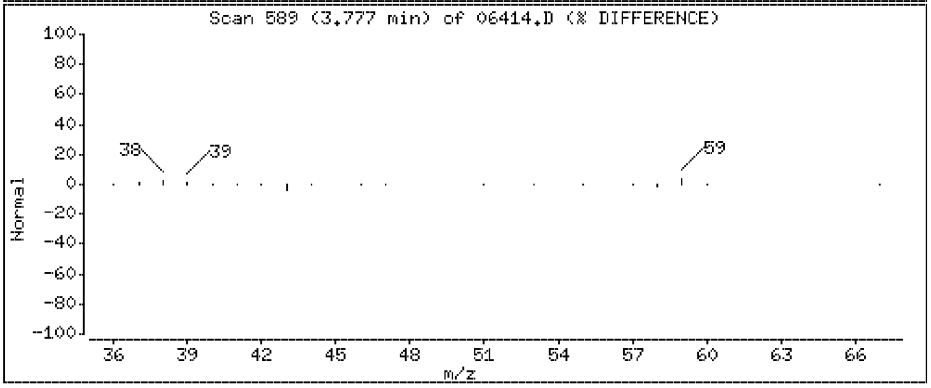












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

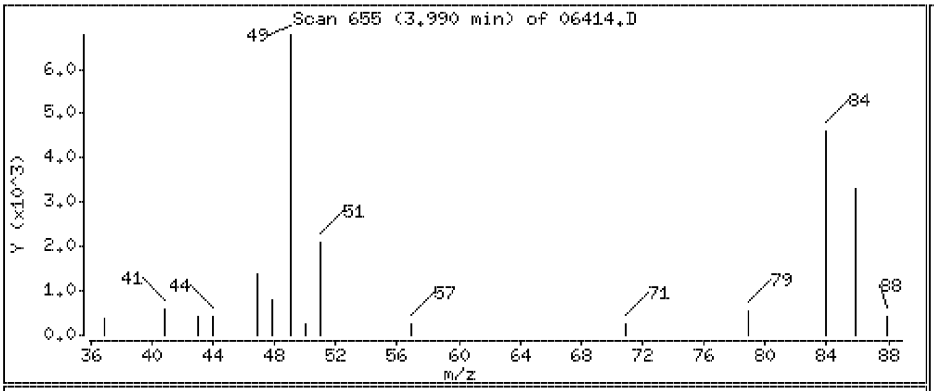
Operator: NCK

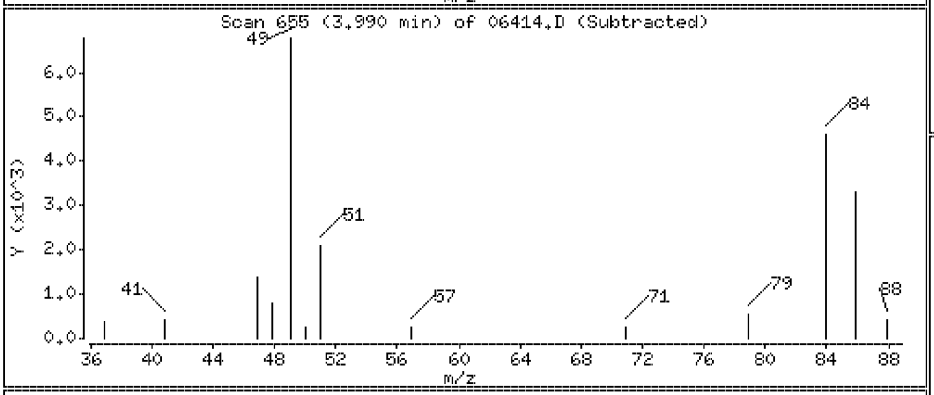
Column phase: J&W DB-5

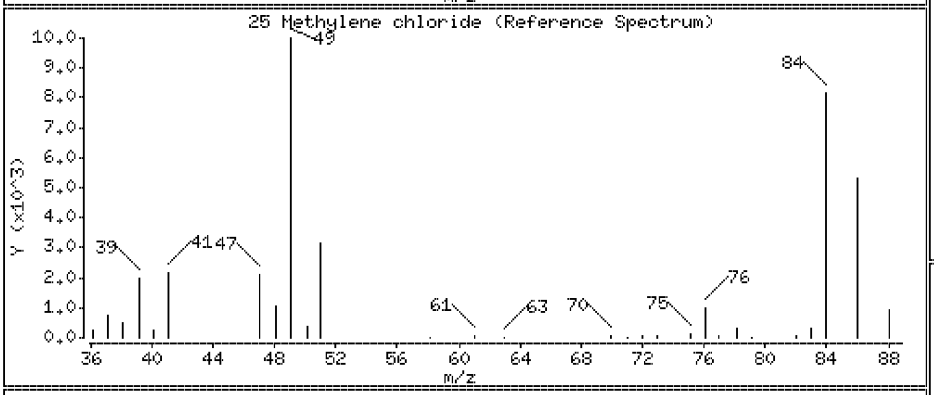
Column diameter: 0.32

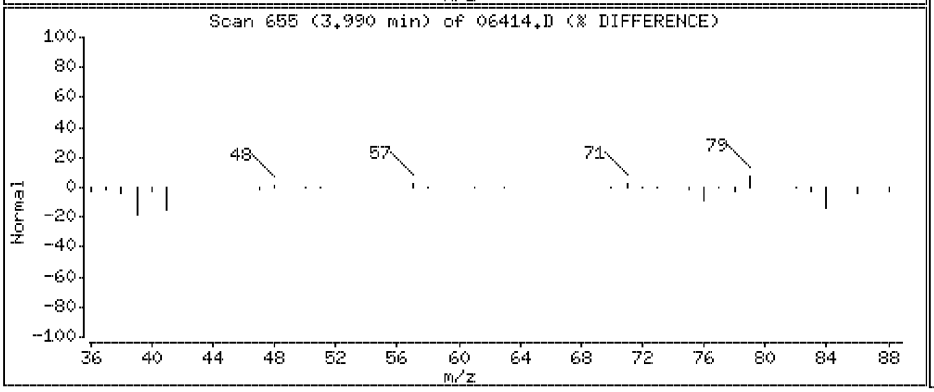
25 Methylene chloride

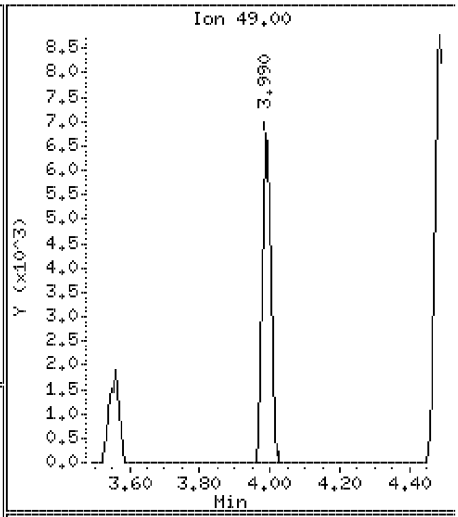
Concentration: 1.48 ppbv

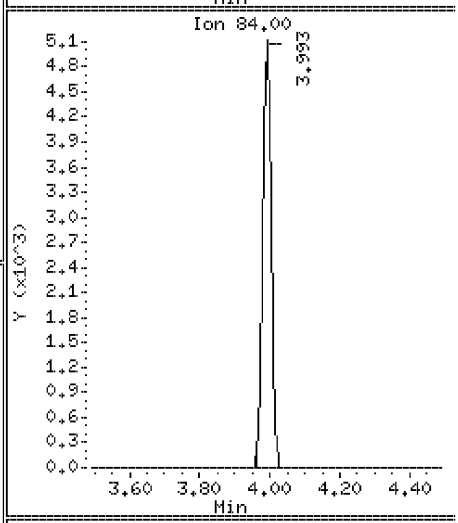


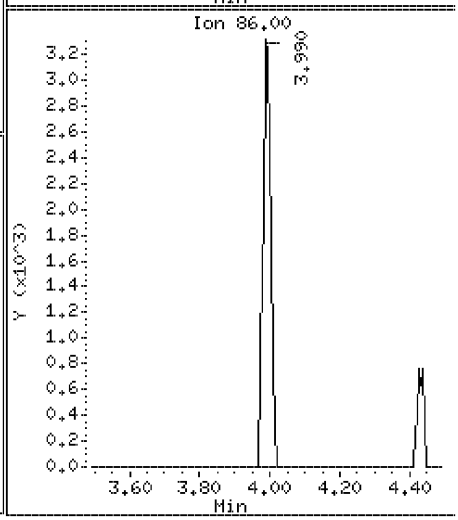












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

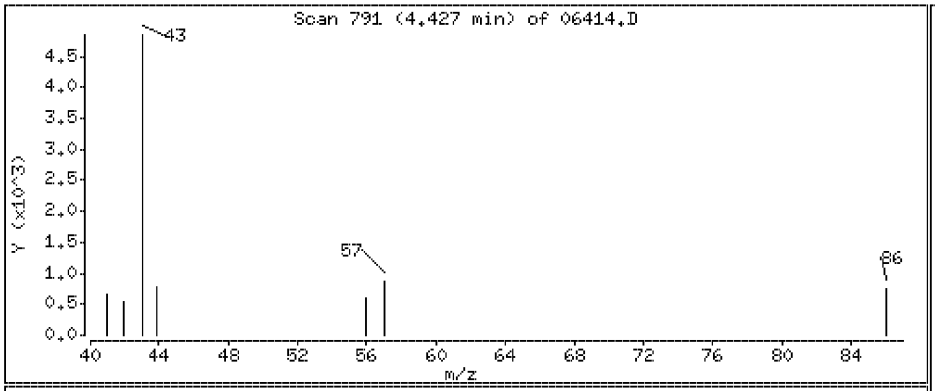
Operator: NCK

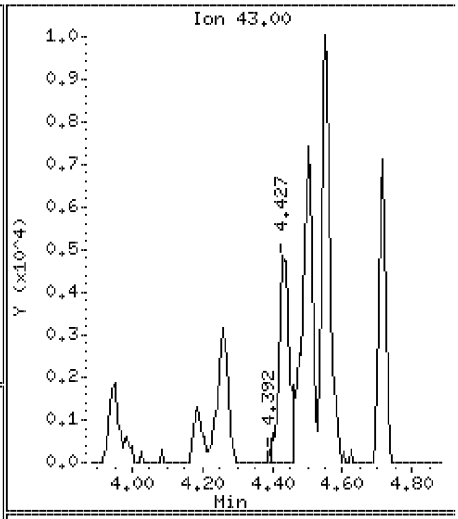
Column phase: J&W DB-5

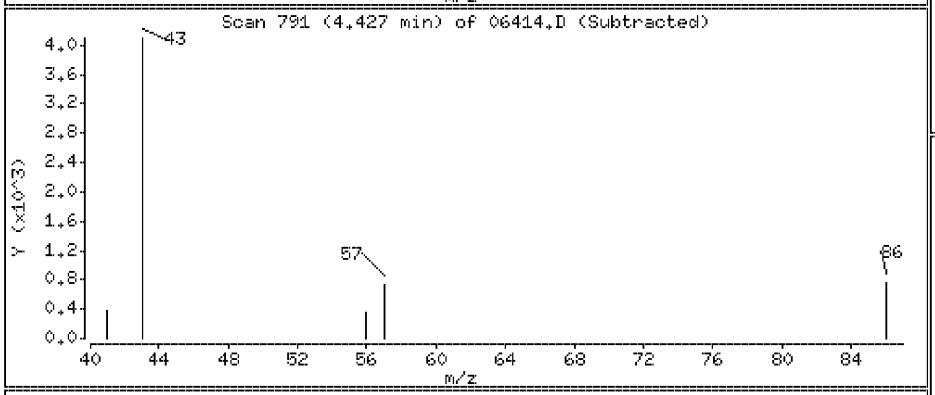
Column diameter: 0.32

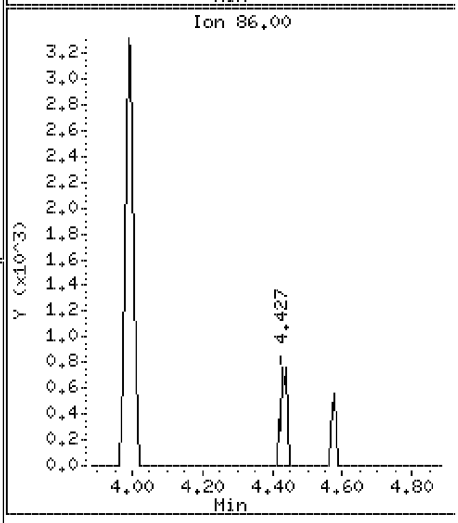
30 Vinyl Acetate

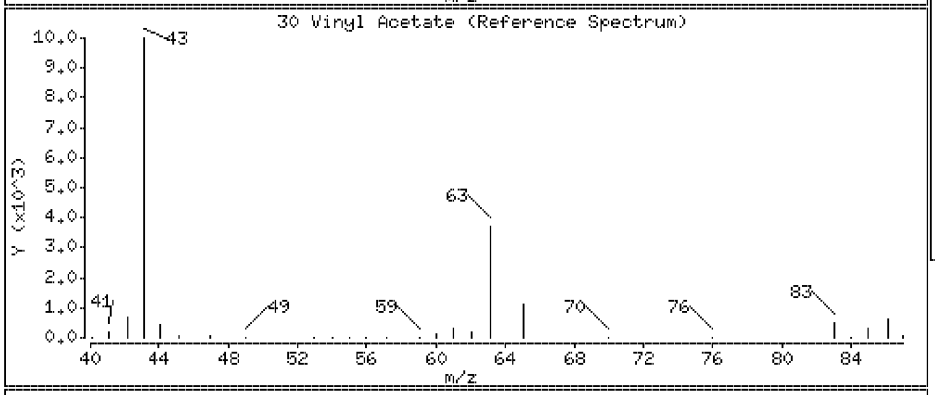
Concentration: 0.887 ppbv

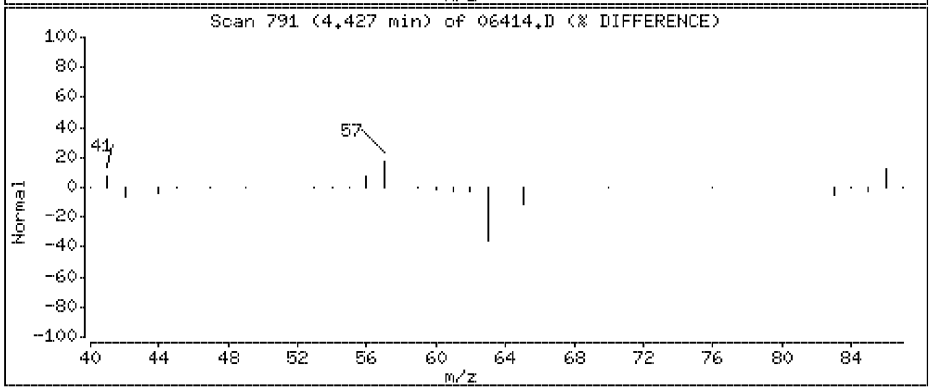












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

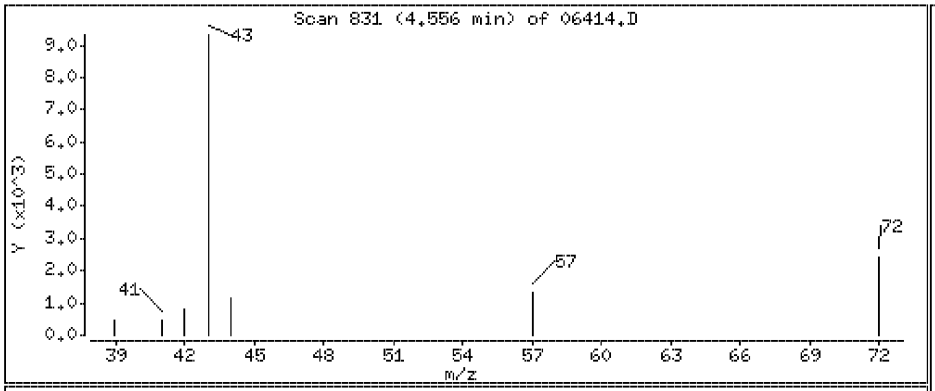
Operator: NCK

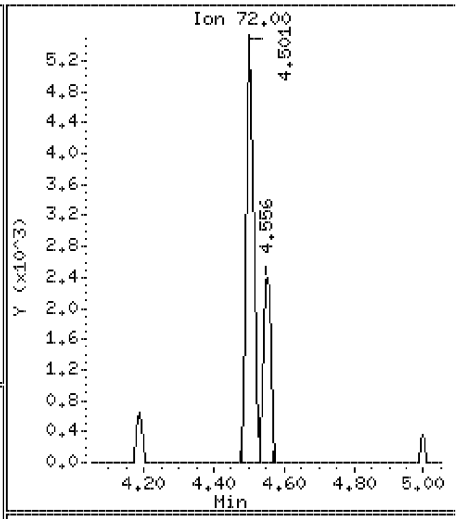
Column phase: J&W DB-5

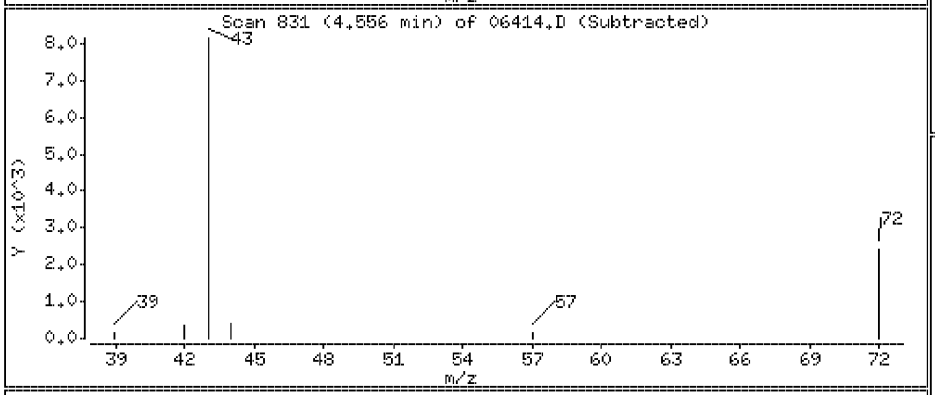
Column diameter: 0.32

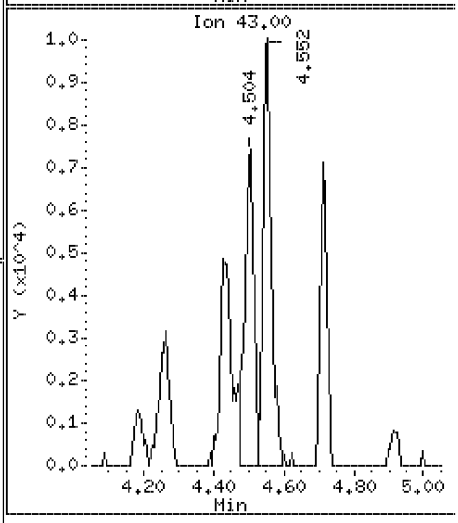
33 Methyl Ethyl Ketone

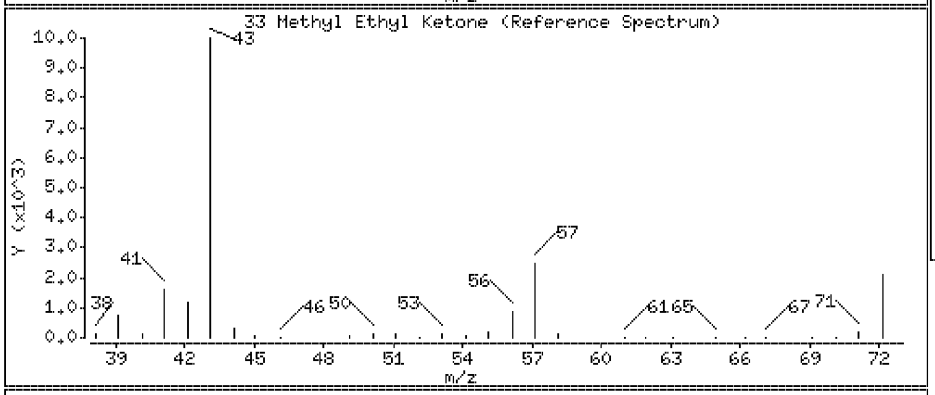
Concentration: 1.19 ppbv

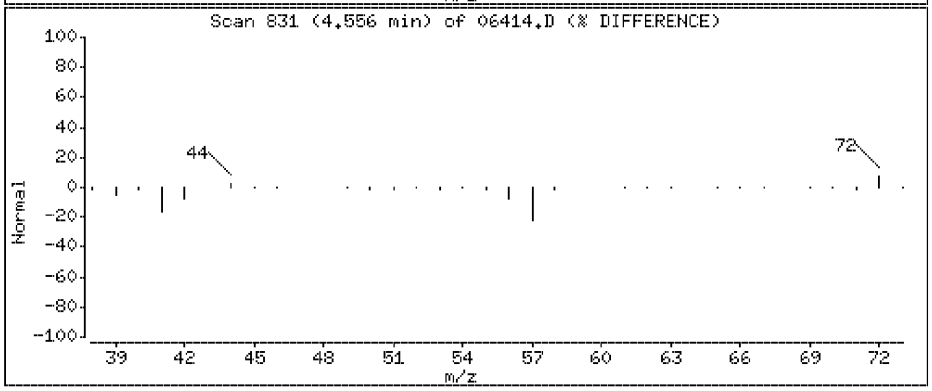












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

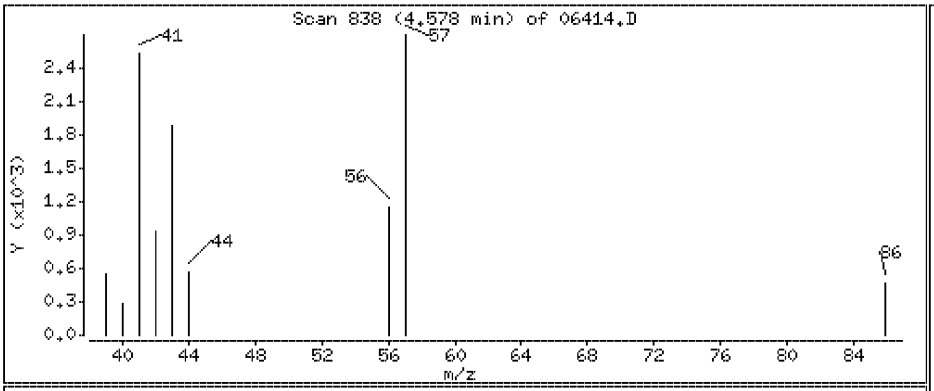
Operator: NCK

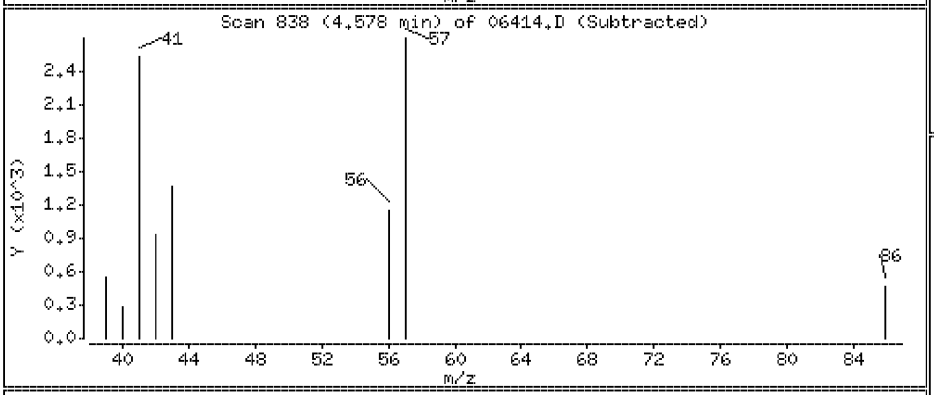
Column phase: J&W DB-5

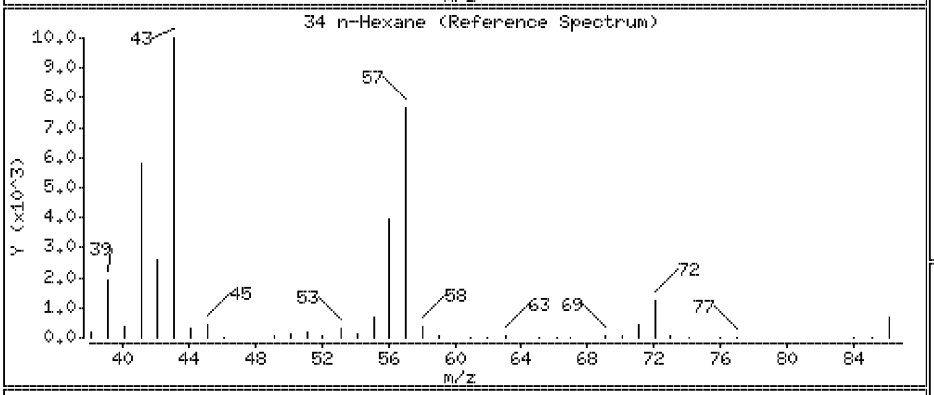
Column diameter: 0.32

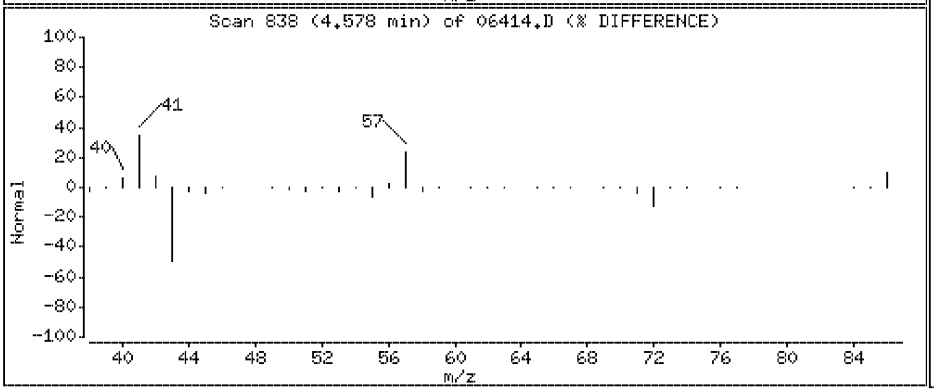
34 n-Hexane

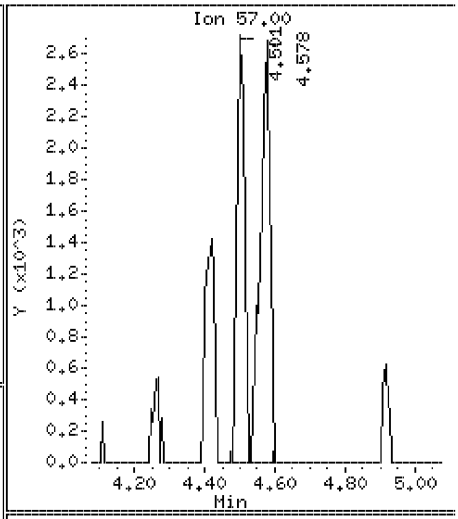
Concentration: 0.462 ppbv

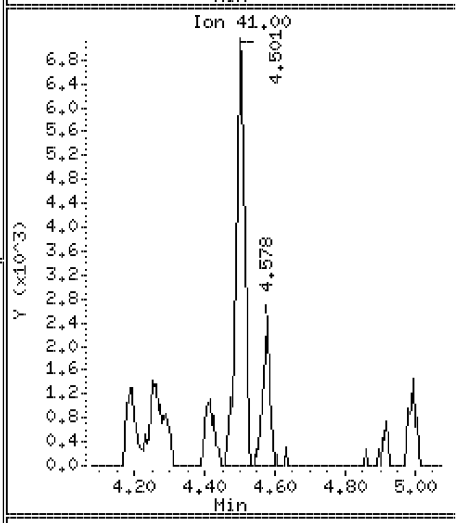


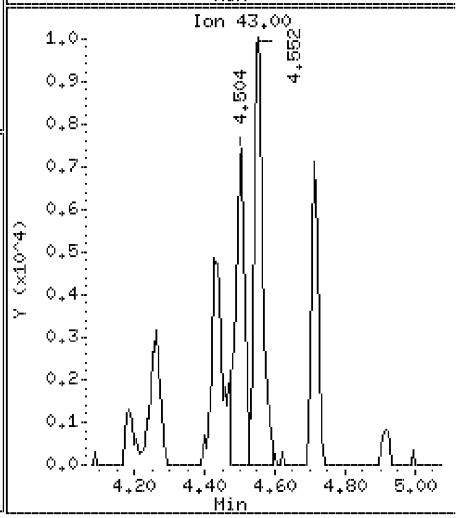












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

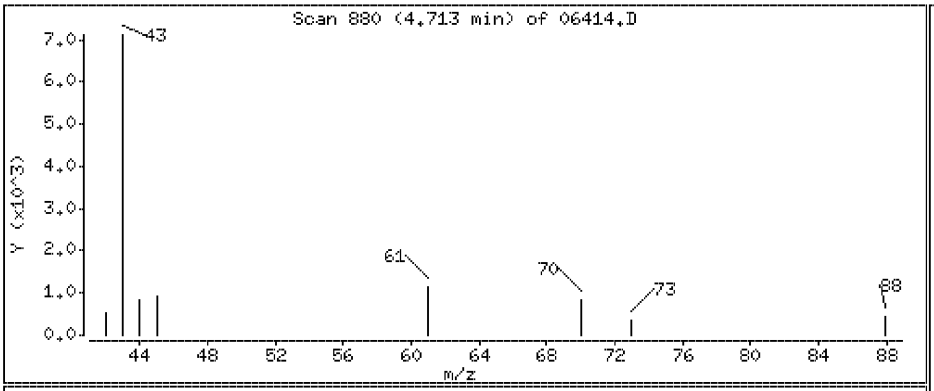
Operator: NCK

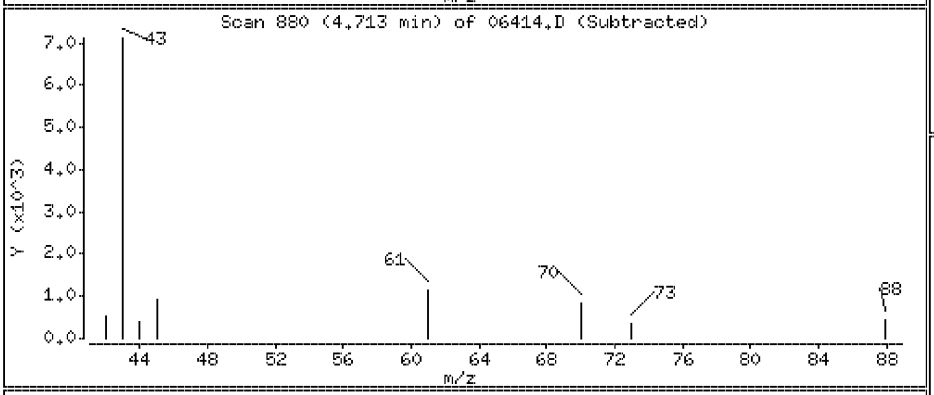
Column phase: J&W DB-5

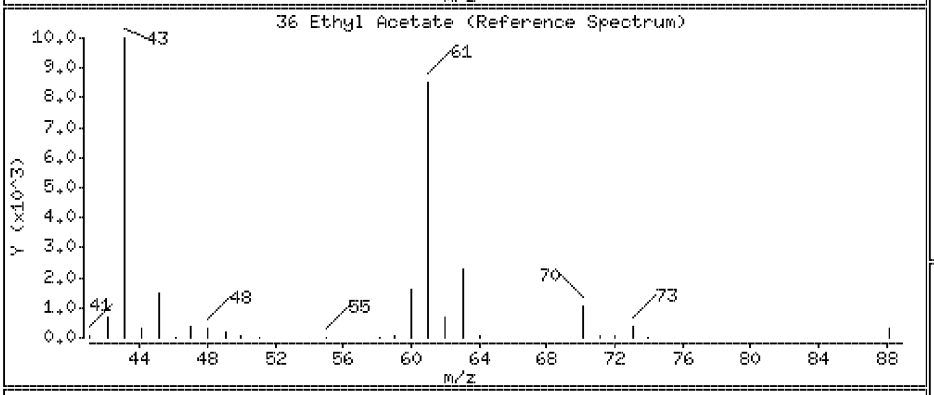
Column diameter: 0.32

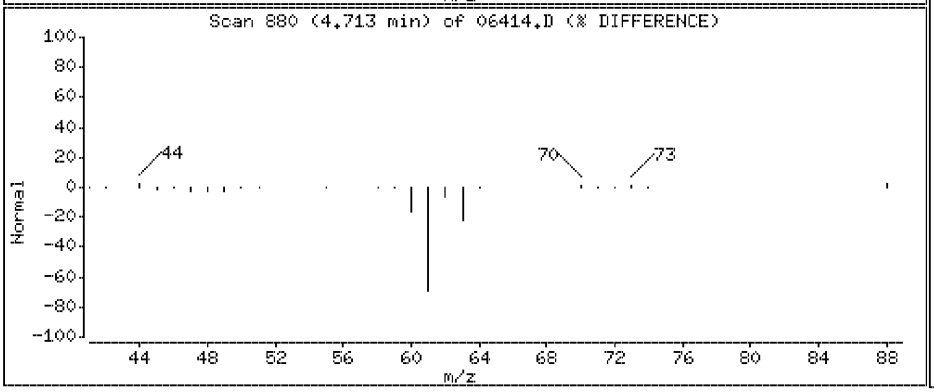
36 Ethyl Acetate

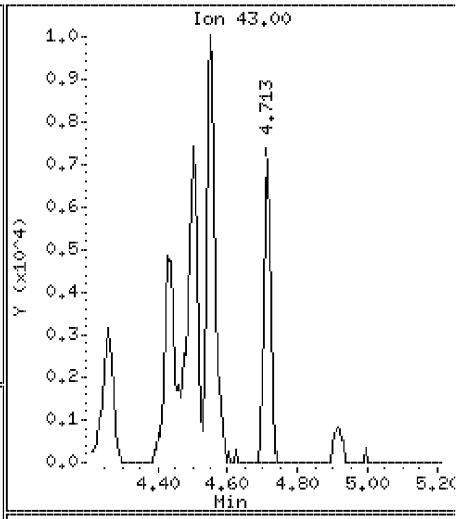
Concentration: 0.661 ppbv

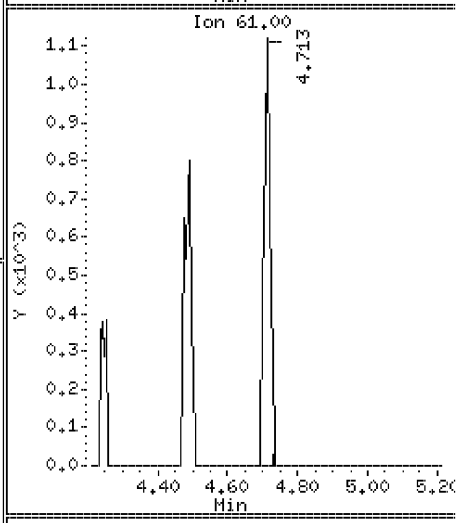


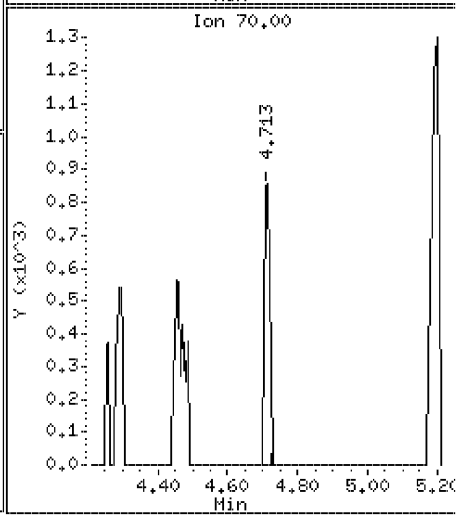












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

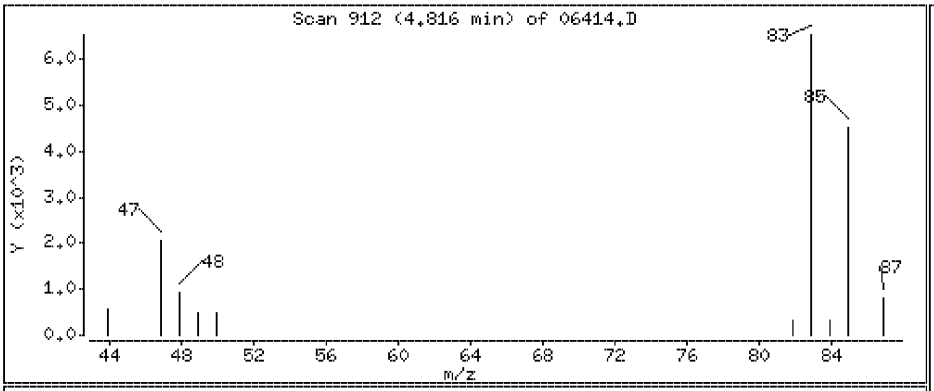
Operator: NCK

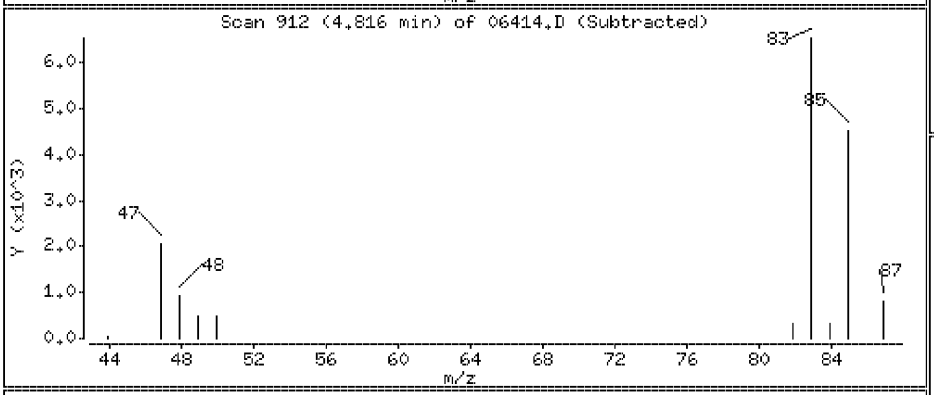
Column phase: J&W DB-5

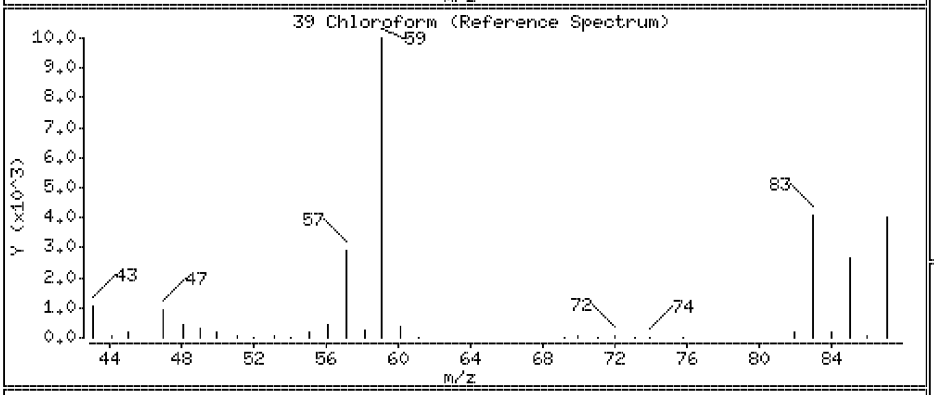
Column diameter: 0.32

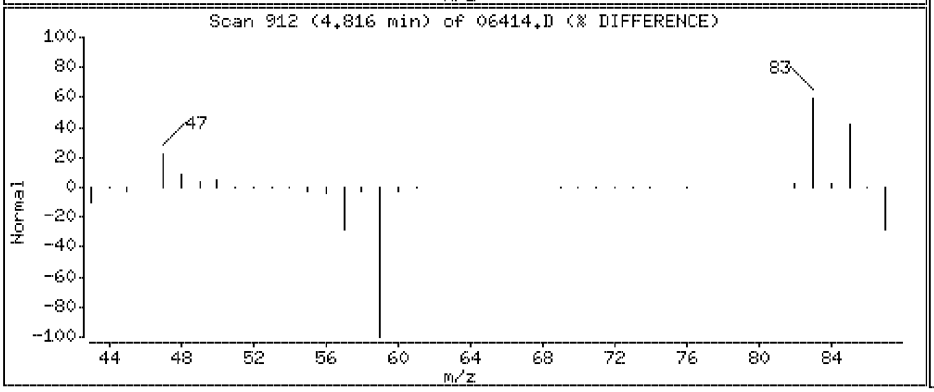
39 Chloroform

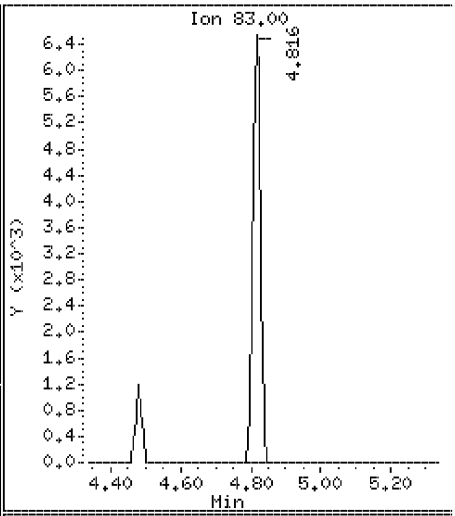
Concentration: 0.667 ppbv

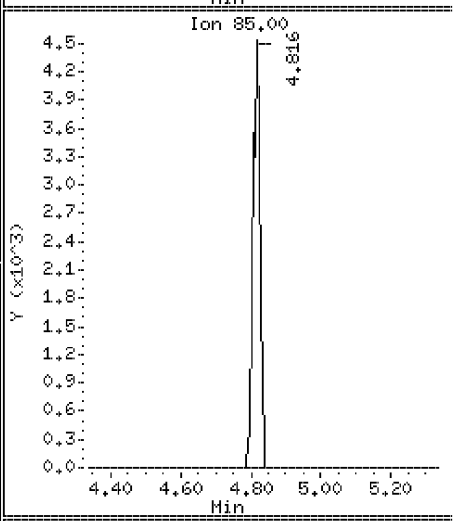


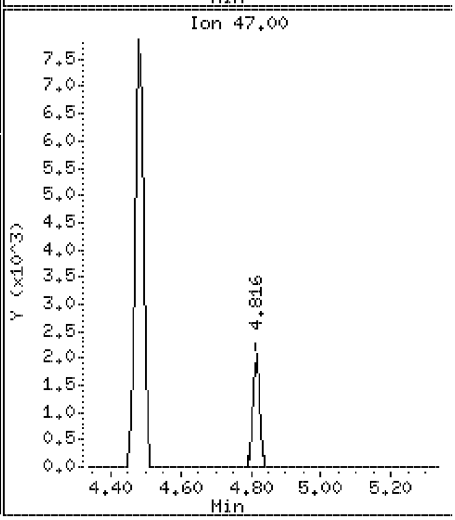












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

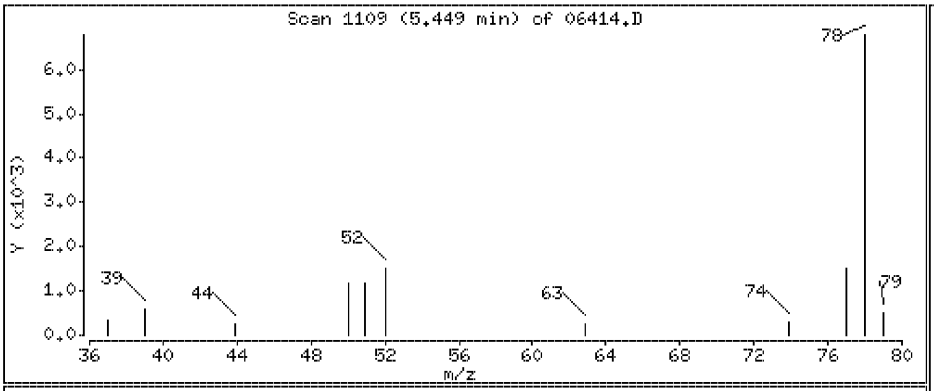
Operator: NCK

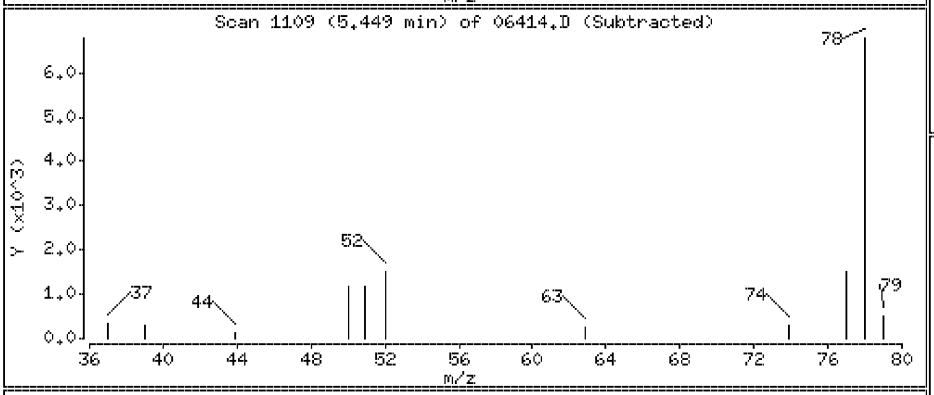
Column phase: J&W DB-5

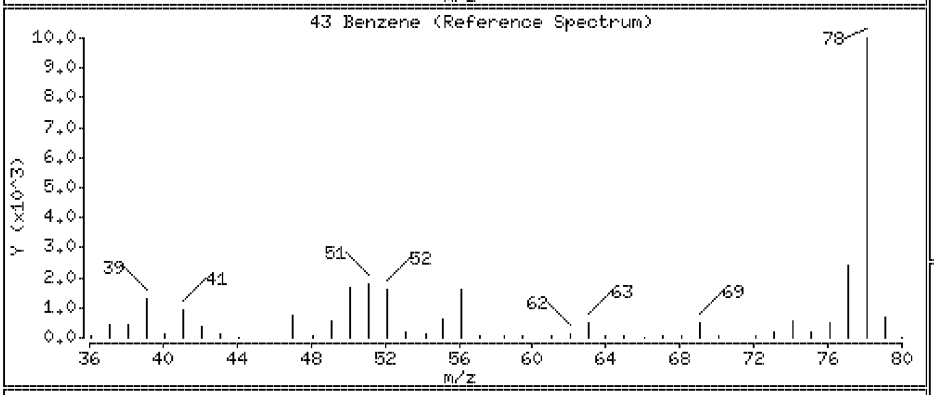
Column diameter: 0.32

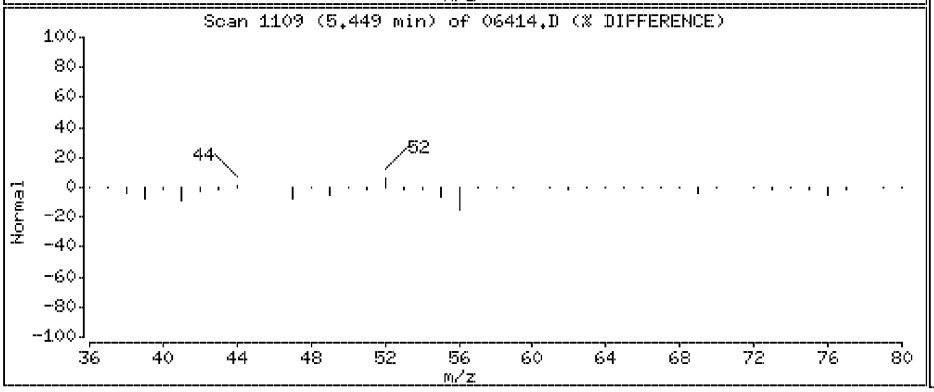
43 Benzene

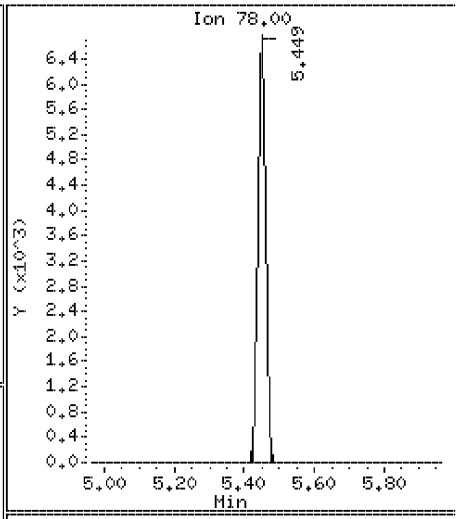
Concentration: 0.474 ppbv

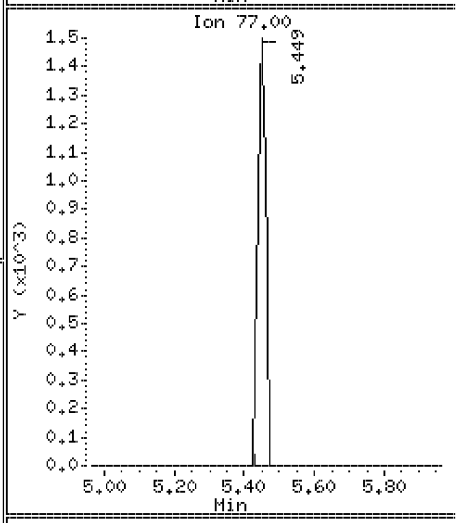


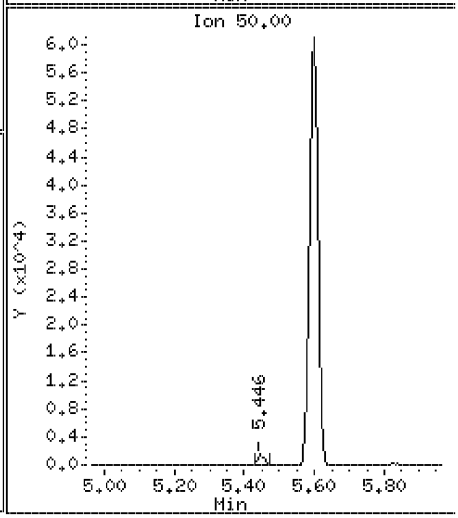












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

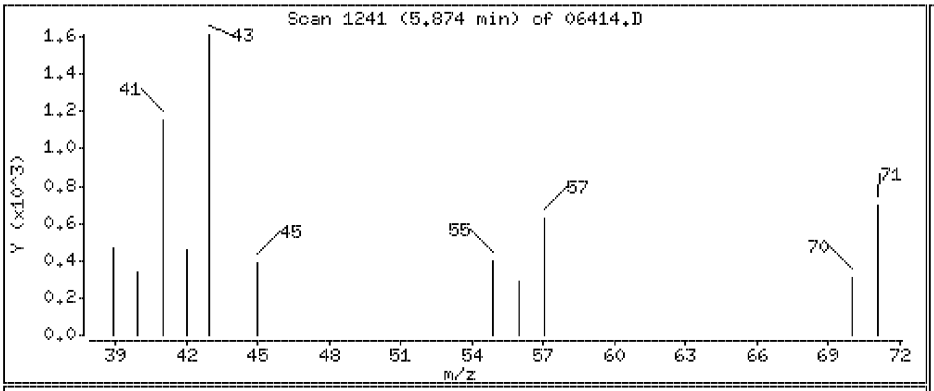
Operator: NCK

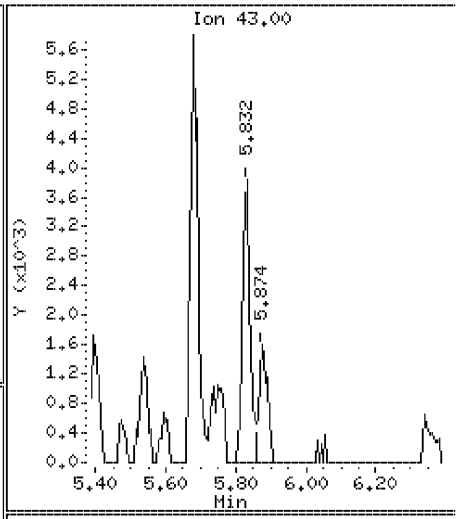
Column phase: J&W DB-5

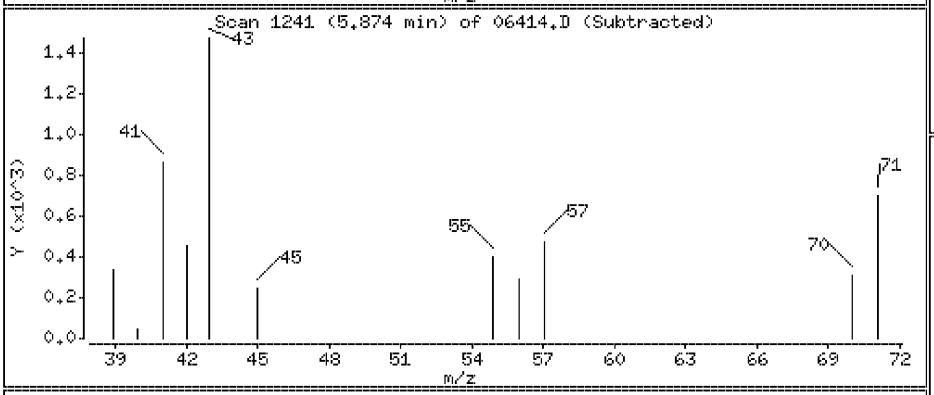
Column diameter: 0.32

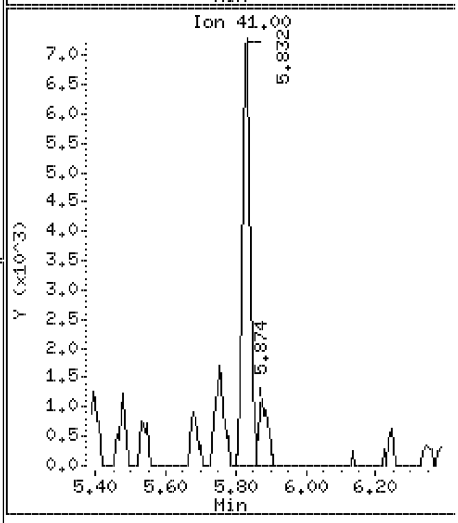
49 Heptane

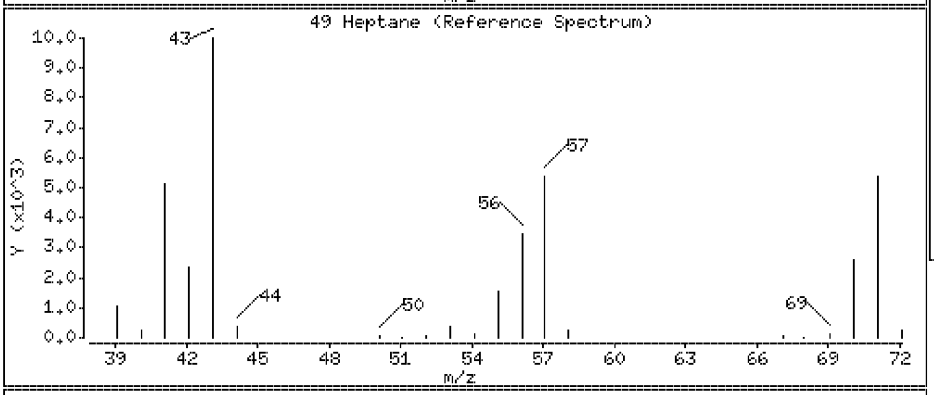
Concentration: 0.212 ppbv

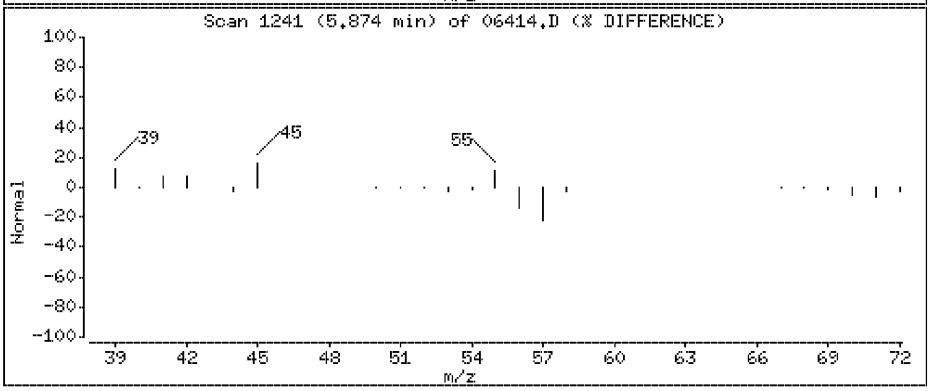












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

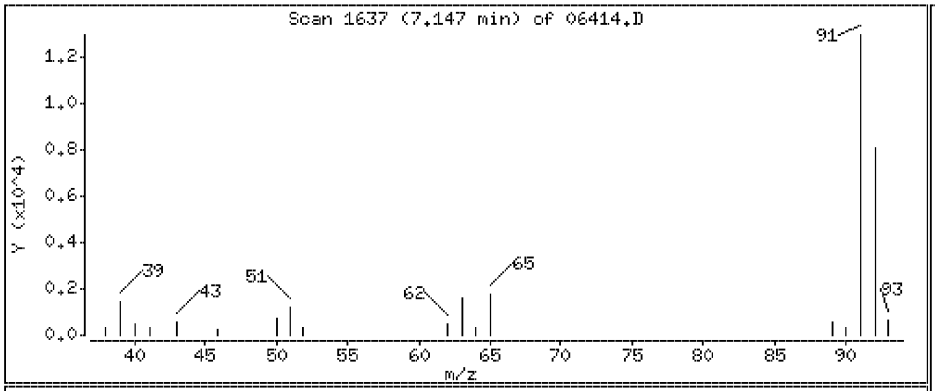
Operator: NCK

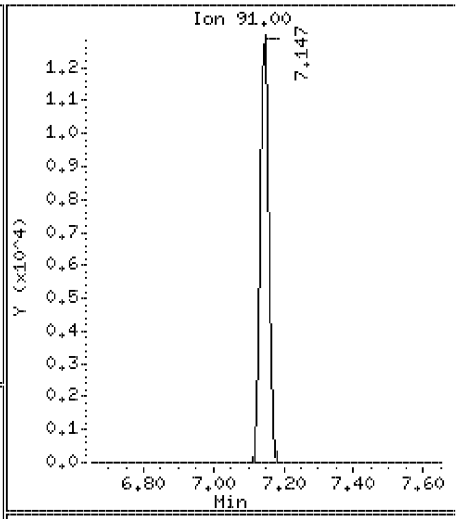
Column phase: J&W DB-5

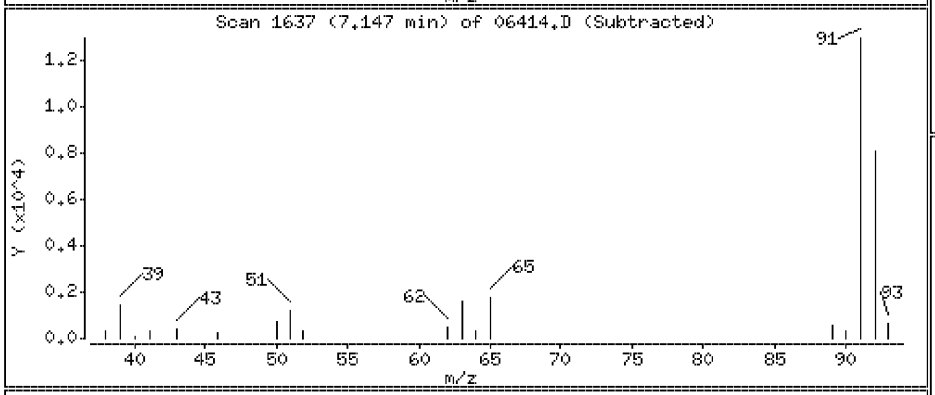
Column diameter: 0.32

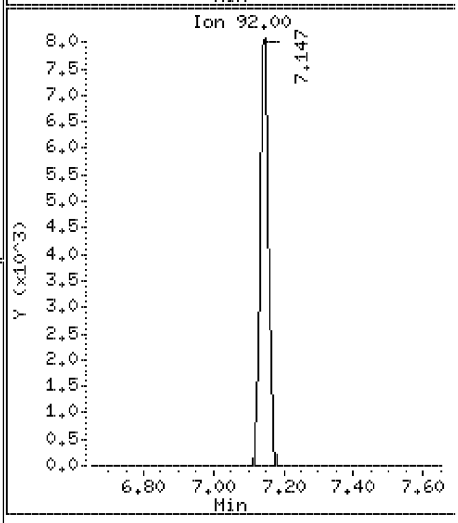
61 Toluene

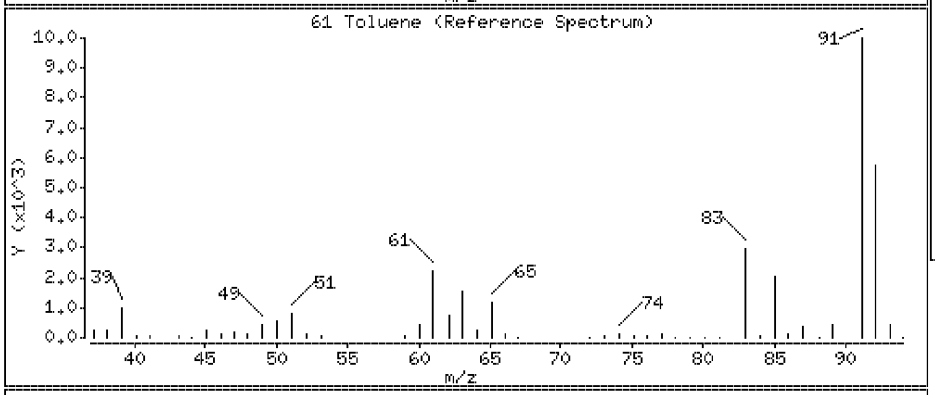
Concentration: 0.793 ppbv

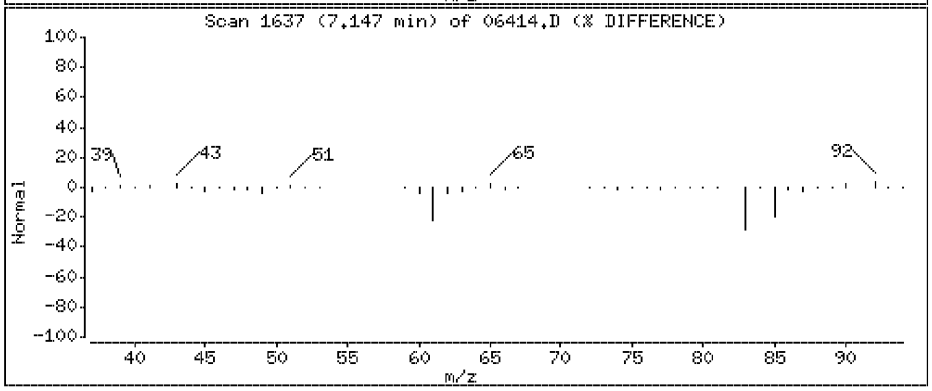












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

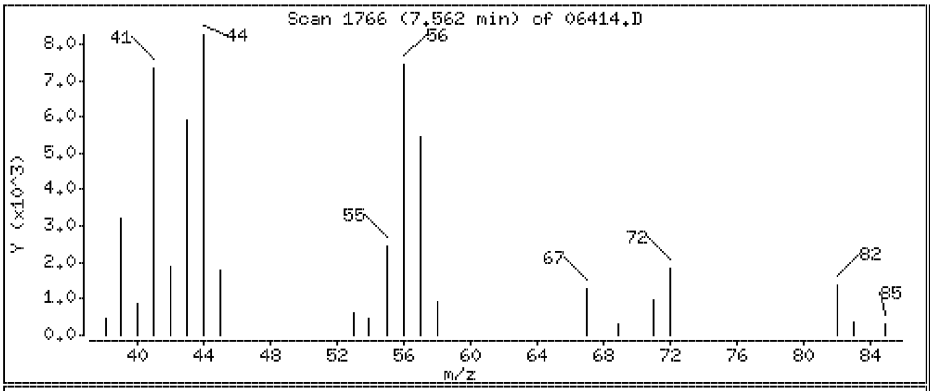
Operator: NCK

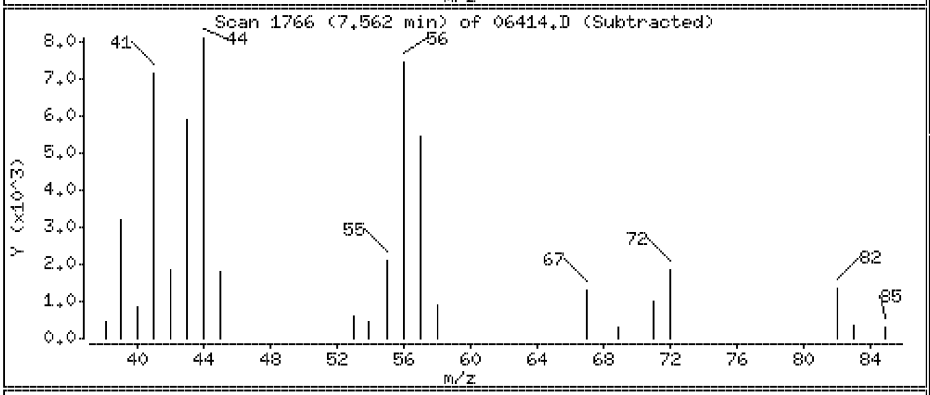
Column phase: J&W DB-5

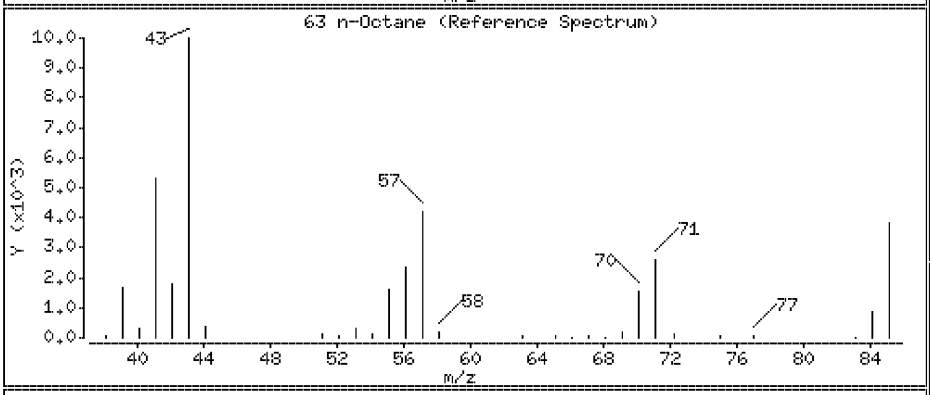
Column diameter: 0.32

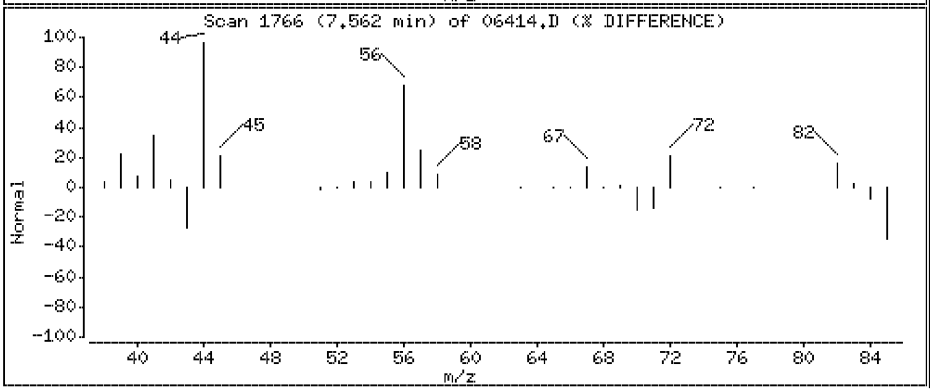
63 n-Octane

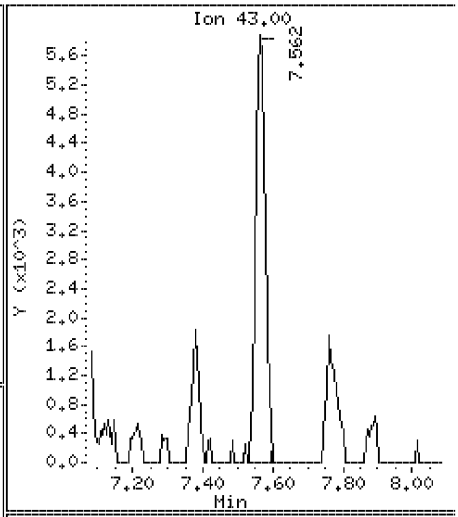
Concentration: 0.750 ppbv

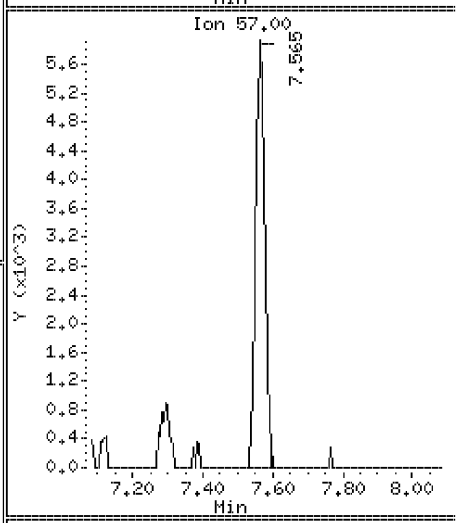


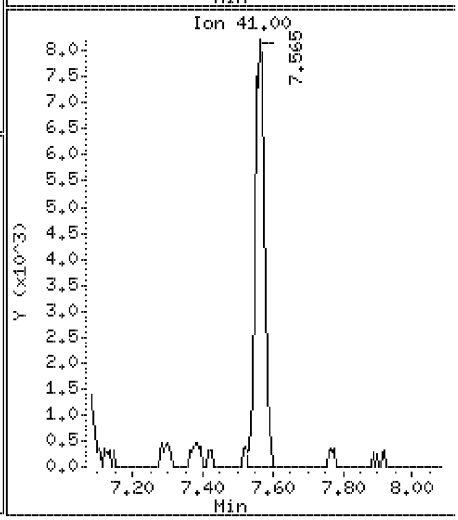












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

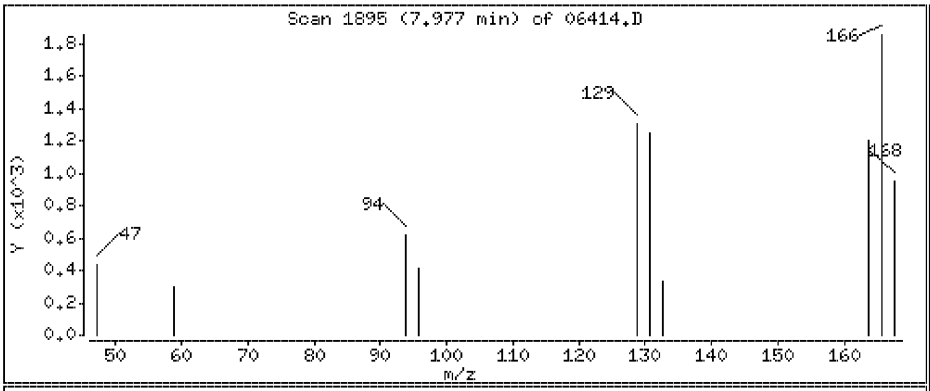
Operator: NCK

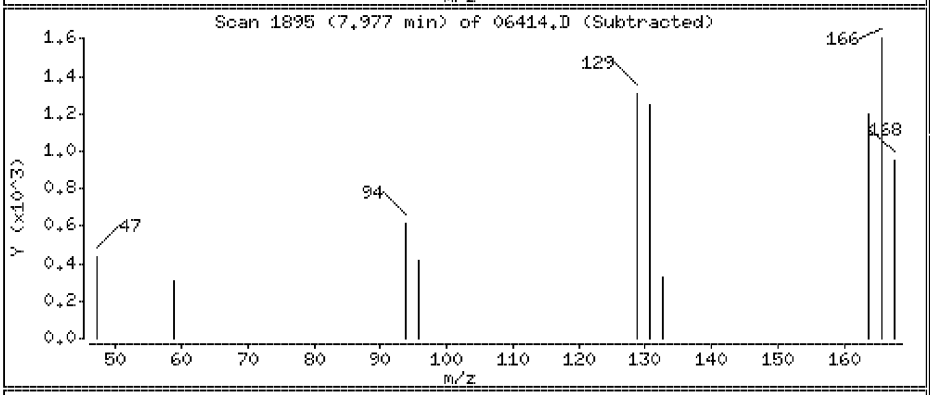
Column phase: J&W DB-5

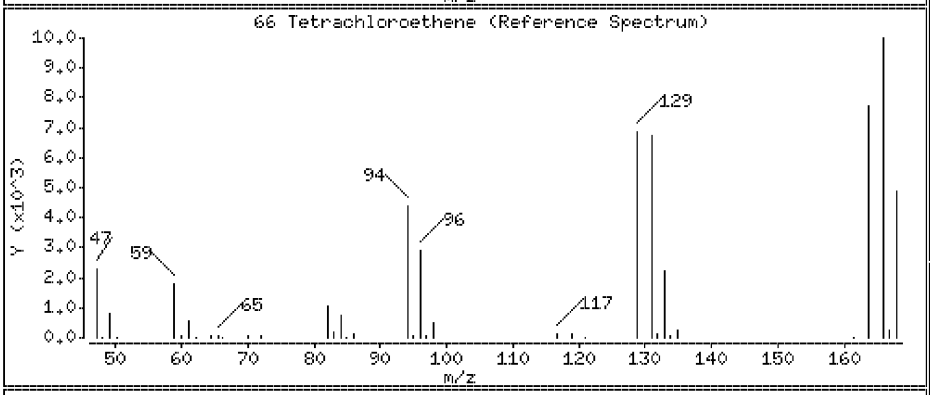
Column diameter: 0.32

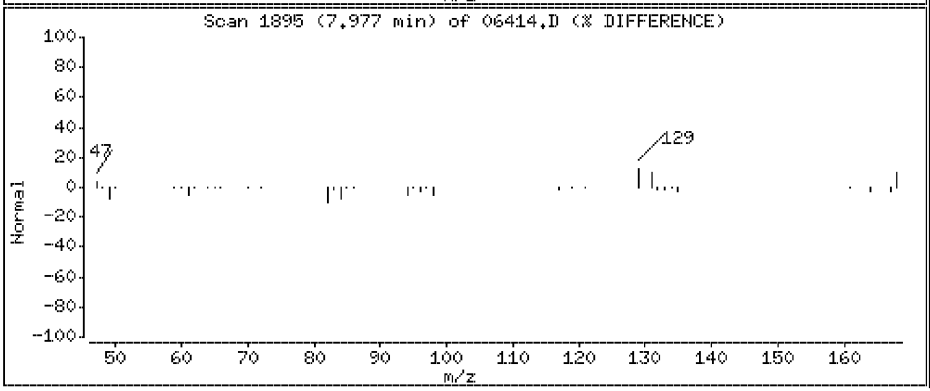
66 Tetrachloroethene

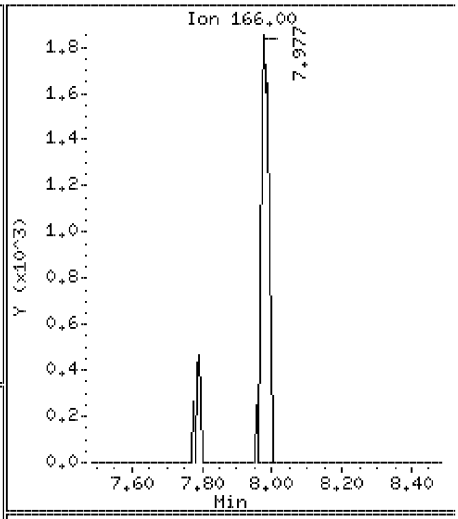
Concentration: 0.180 ppbv

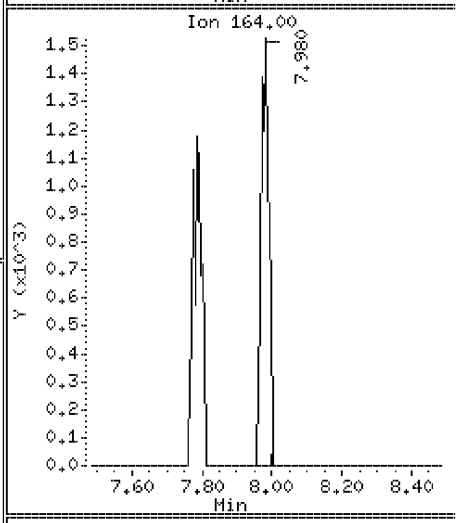


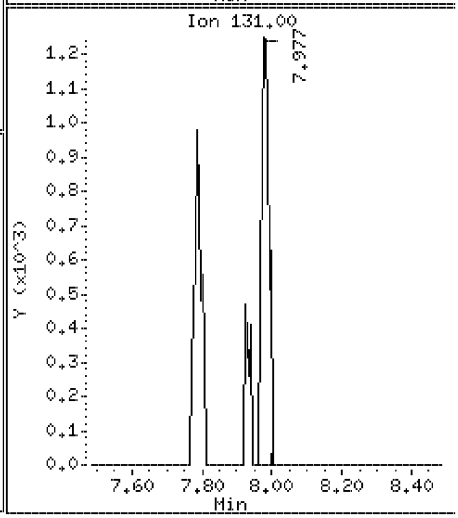












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

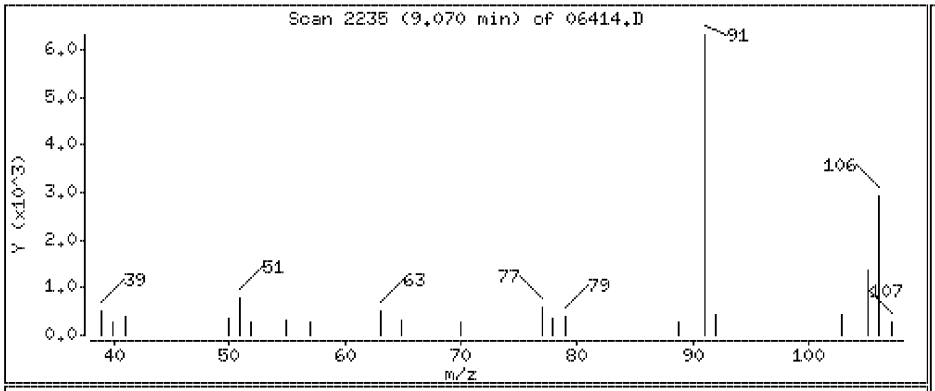
Operator: NCK

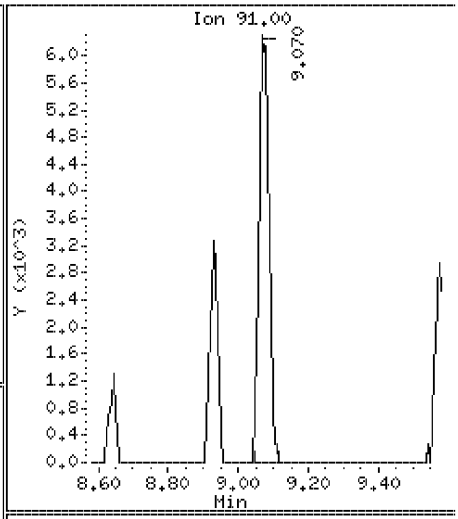
Column phase: J&W DB-5

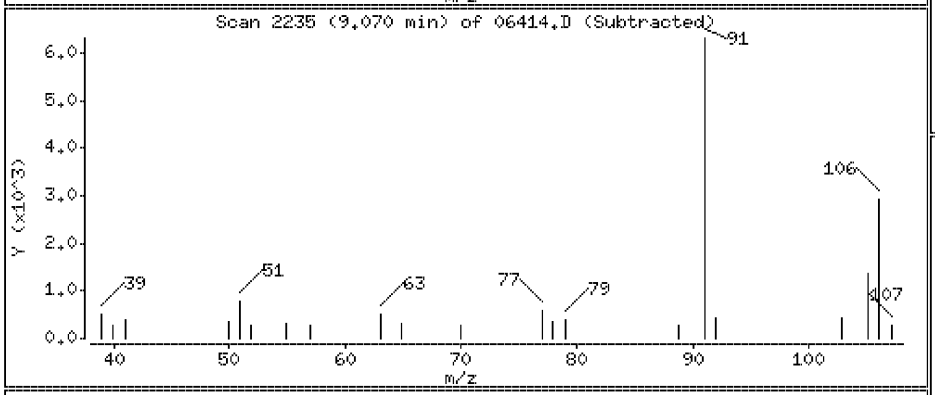
Column diameter: 0.32

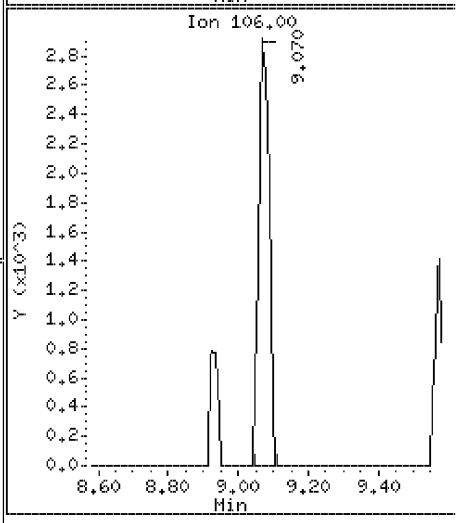
70 m&p-Xylene

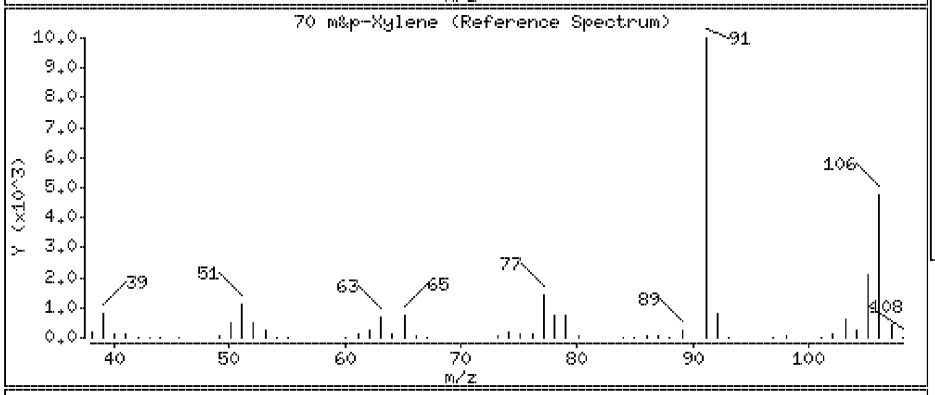
Concentration: 0.483 ppbv

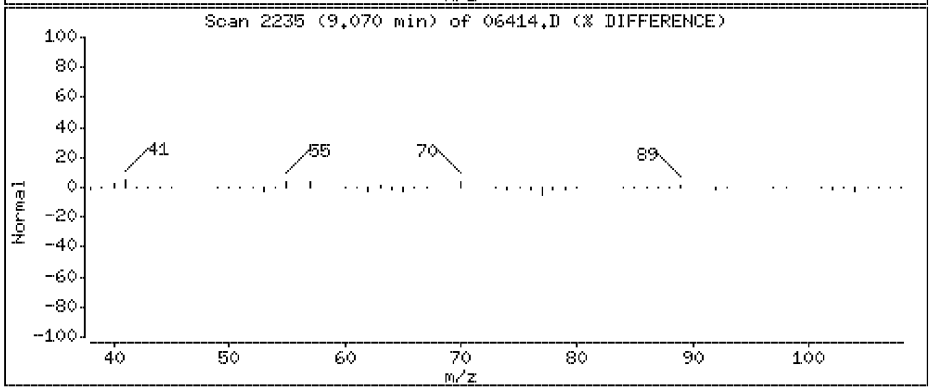












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

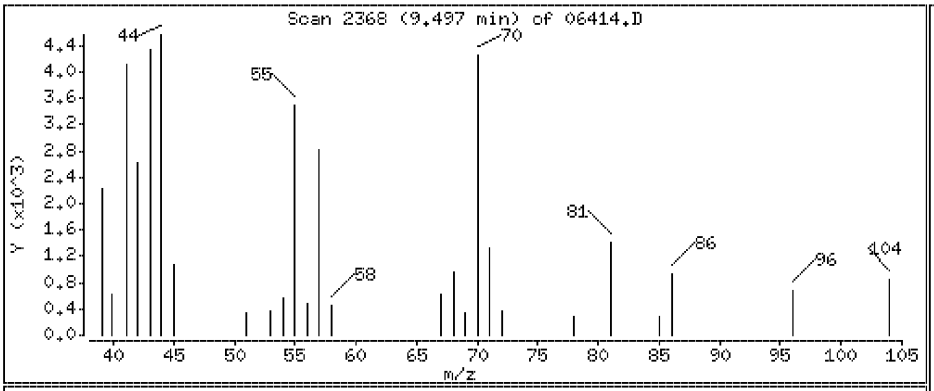
Operator: NCK

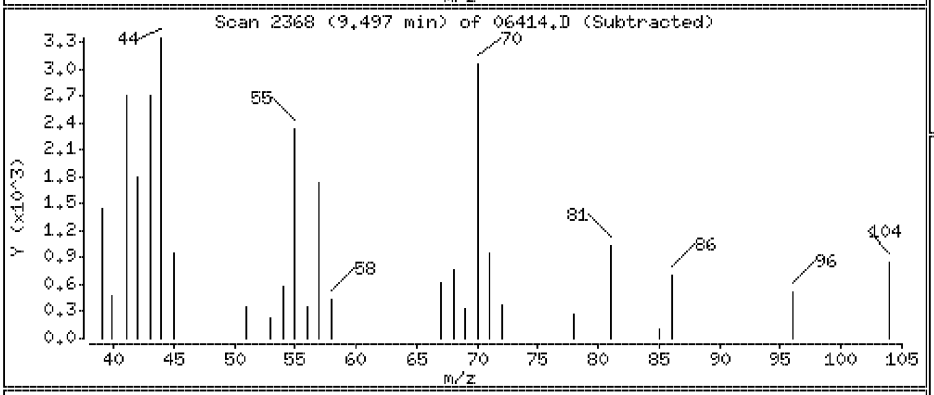
Column phase: J&W DB-5

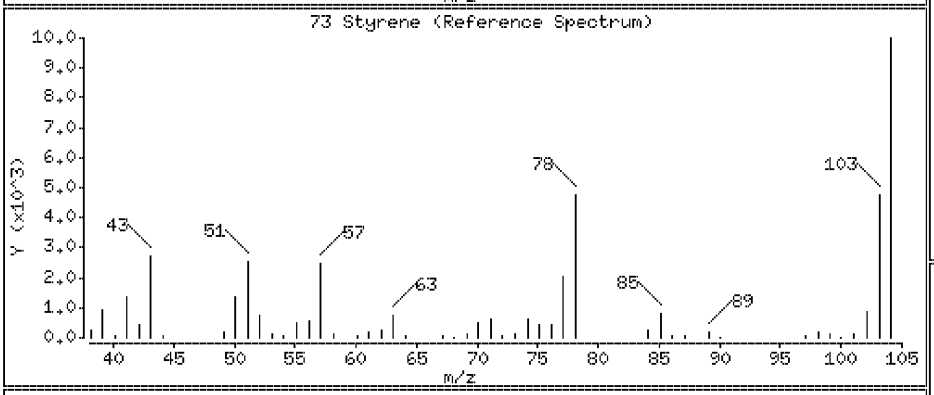
Column diameter: 0.32

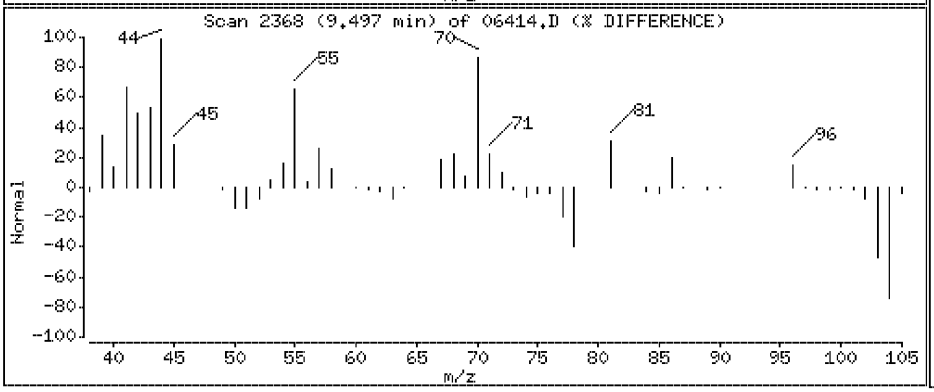
73 Styrene

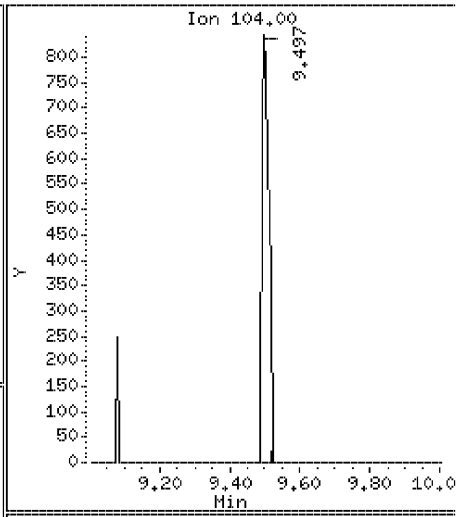
Concentration: 0.197 ppbv

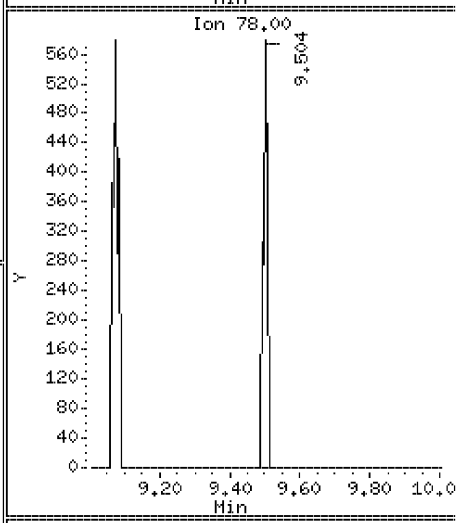


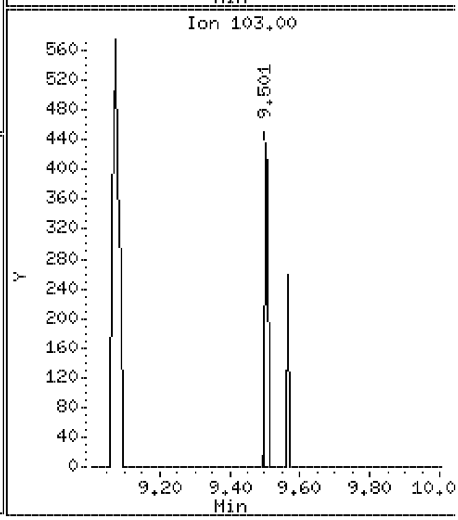












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

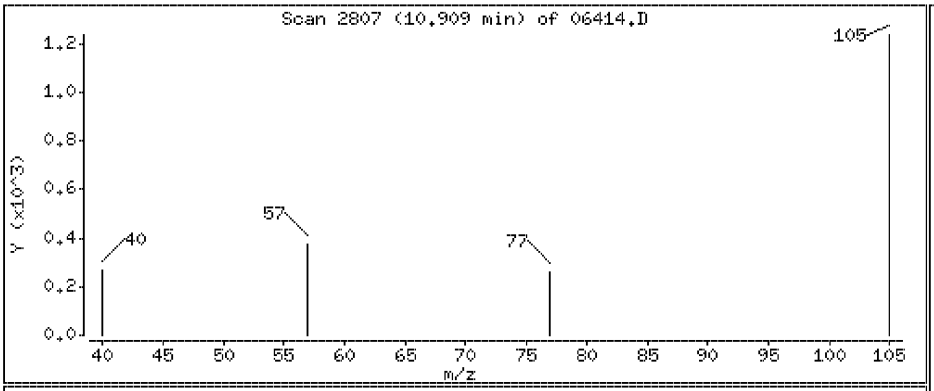
Operator: NCK

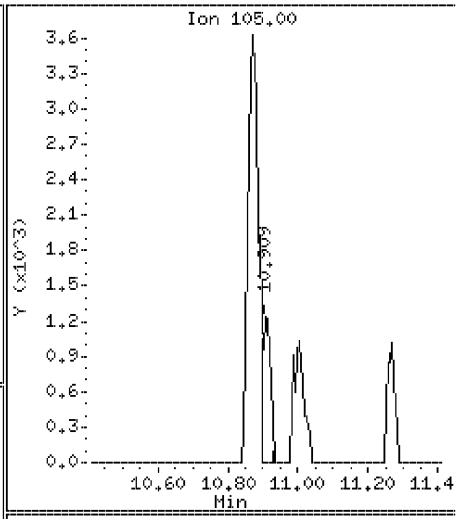
Column phase: J&W DB-5

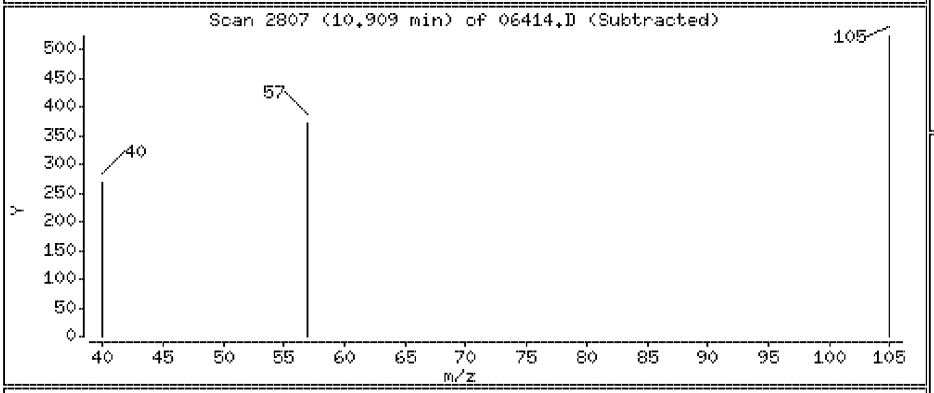
Column diameter: 0.32

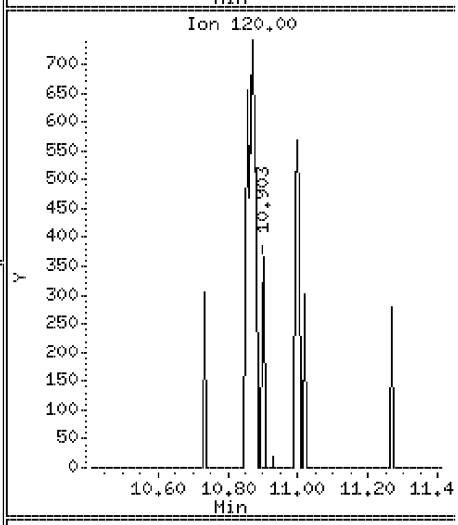
78 4-Ethyltoluene

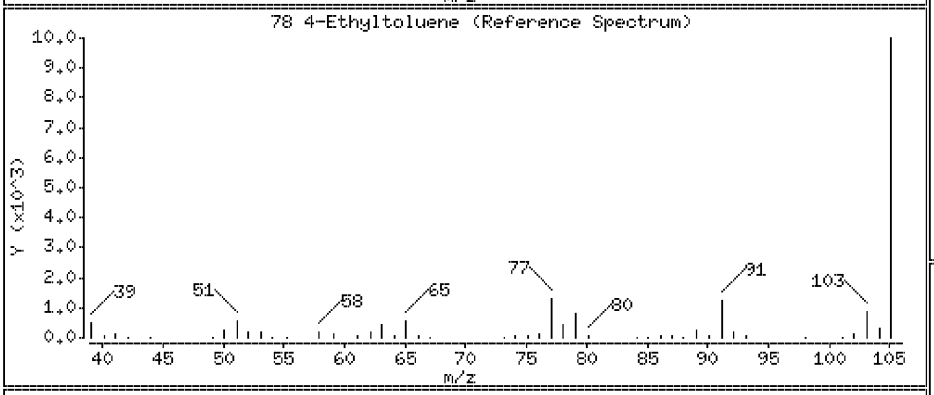
Concentration: 0.244 ppbv

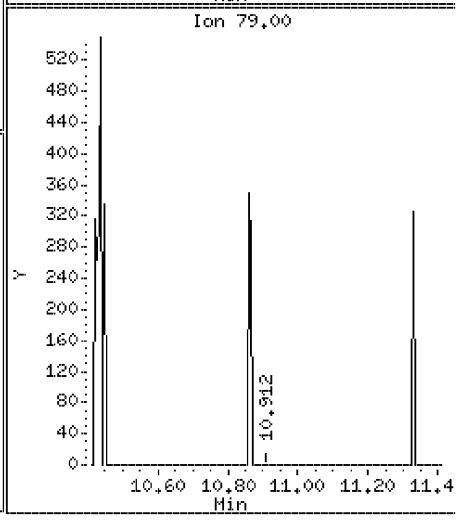


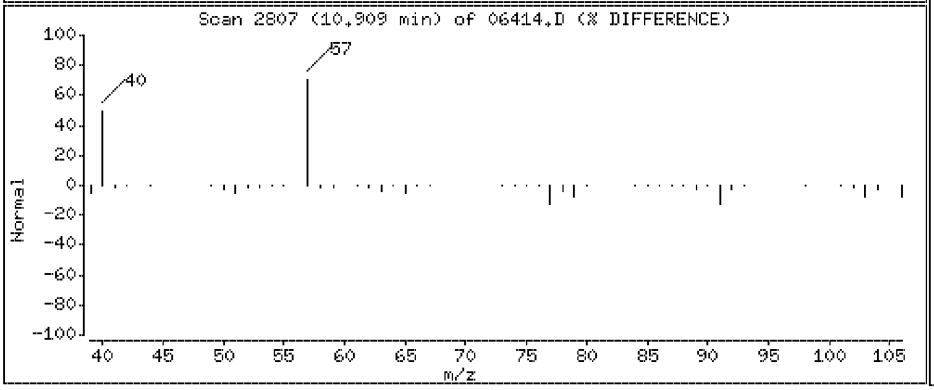












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

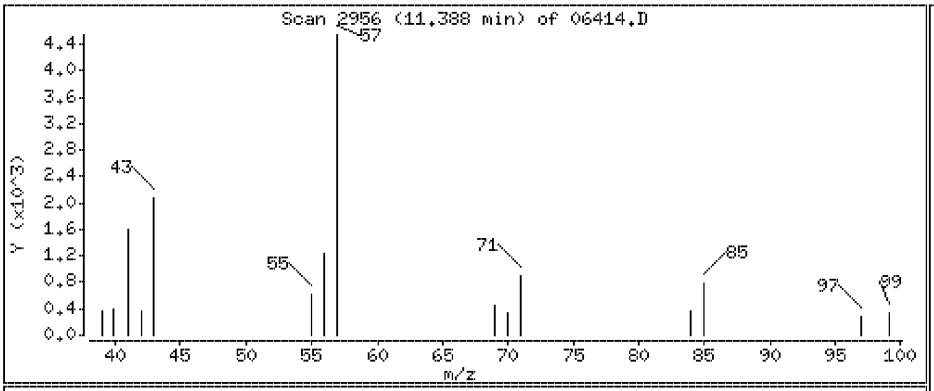
Operator: NCK

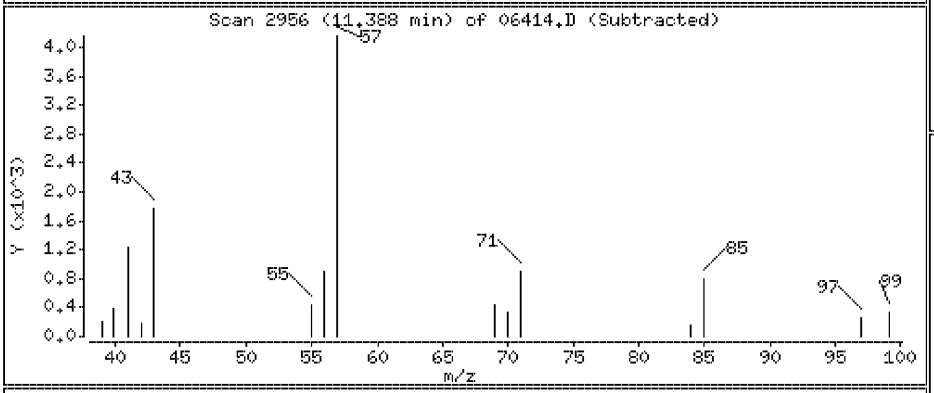
Column phase: J&W DB-5

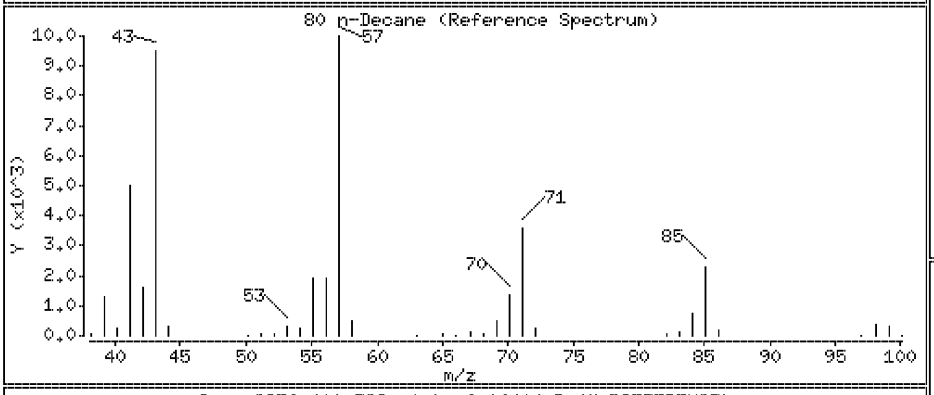
Column diameter: 0.32

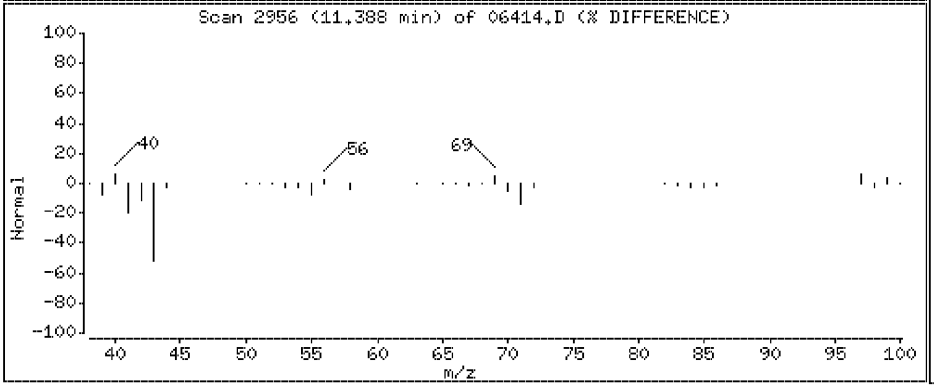
80 n-Decane

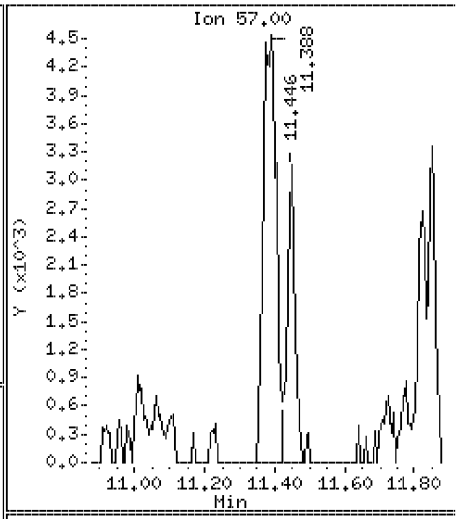
Concentration: 1.11 ppbv

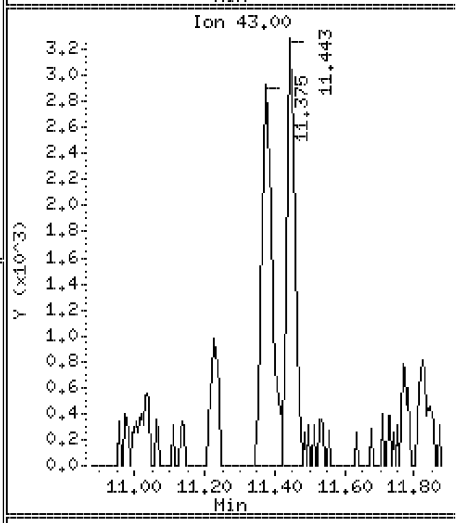


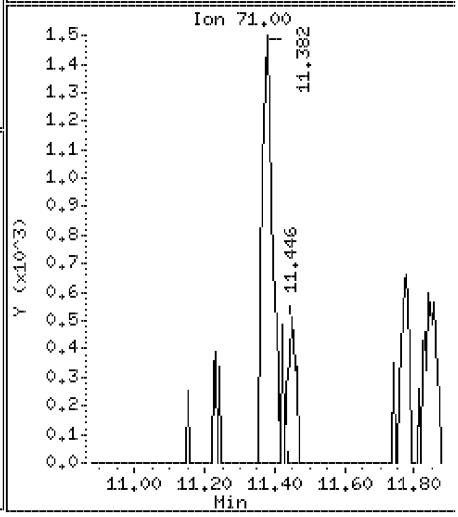












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06414.D

Date : 05-MAR-2017 15:48

Client ID:

Instrument: 10airB.i

Sample Info:

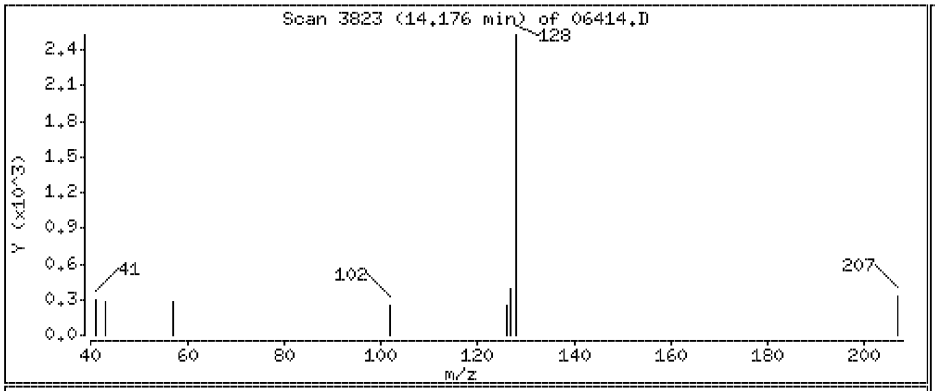
Operator: NCK

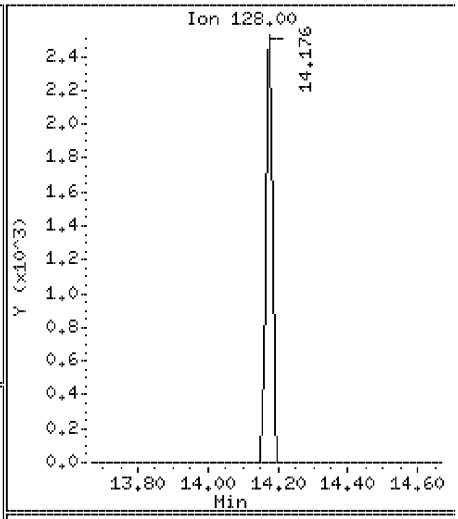
Column phase: J&W DB-5

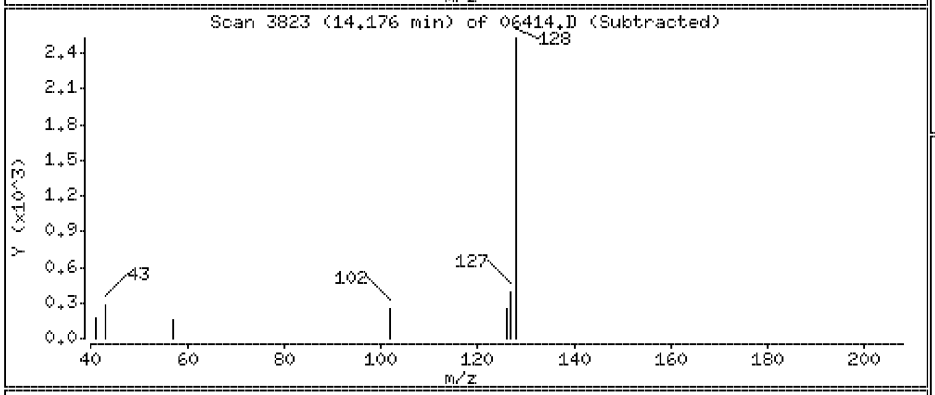
Column diameter: 0.32

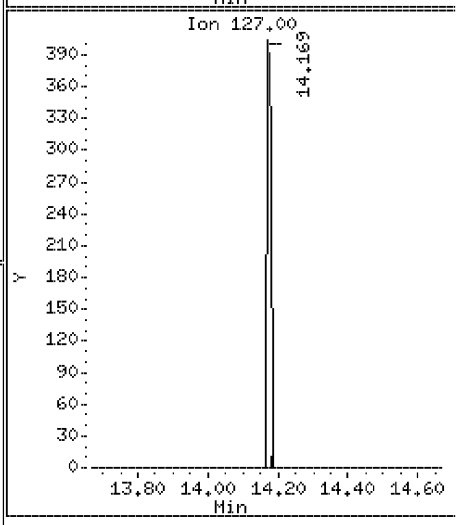
94 Naphthalene

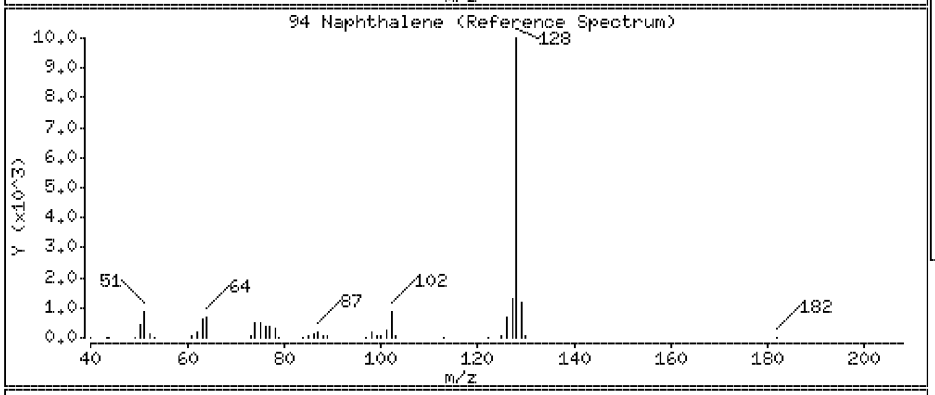
Concentration: 0.821 ppbv

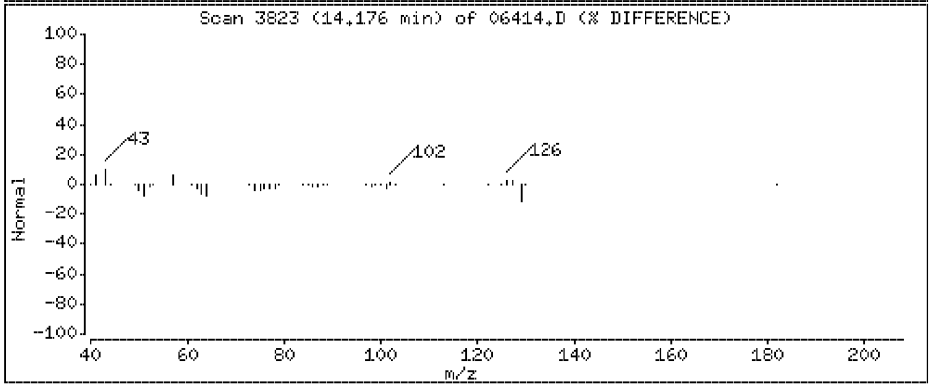






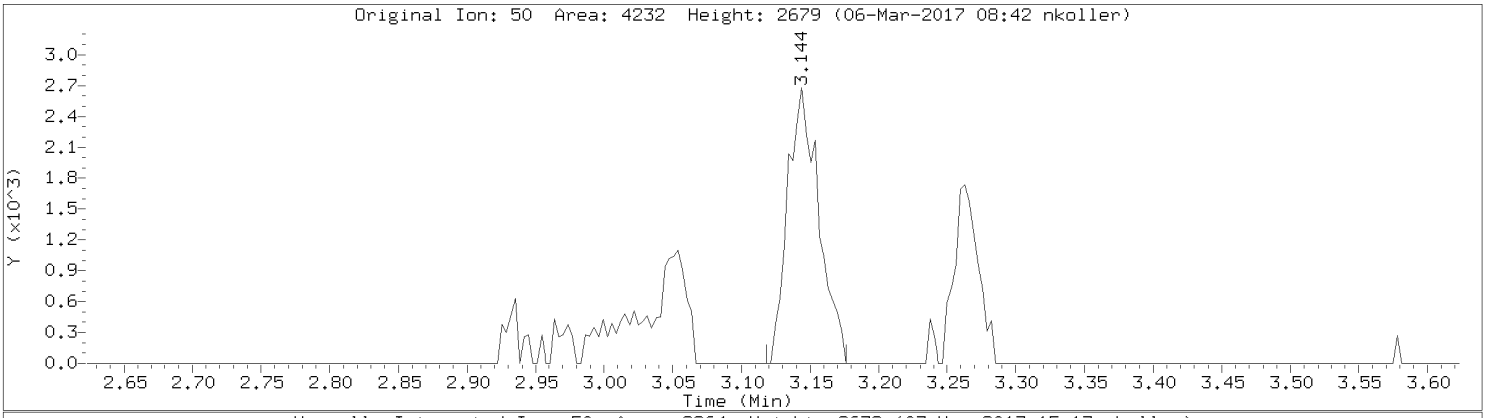


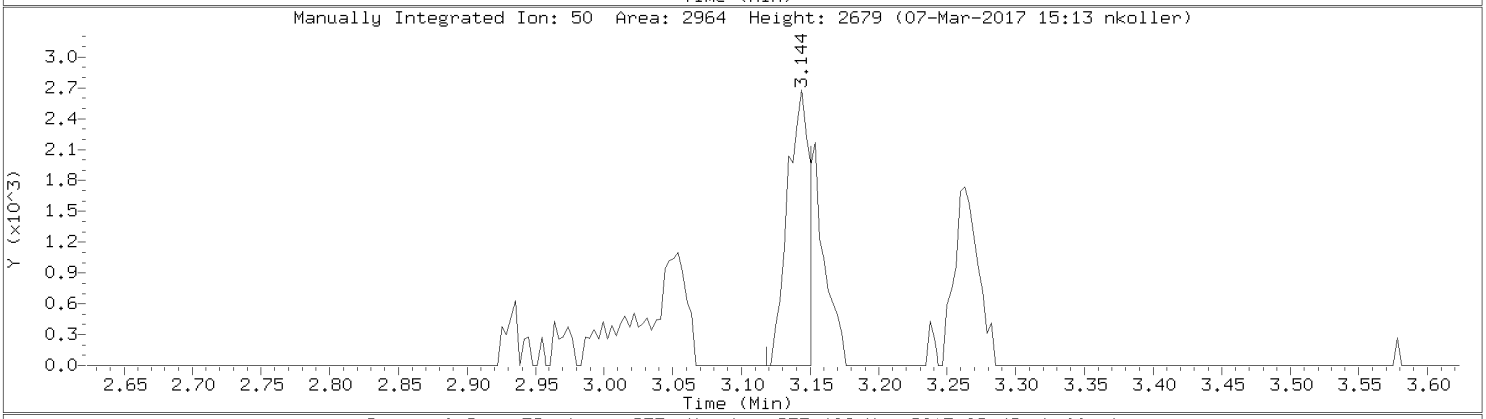


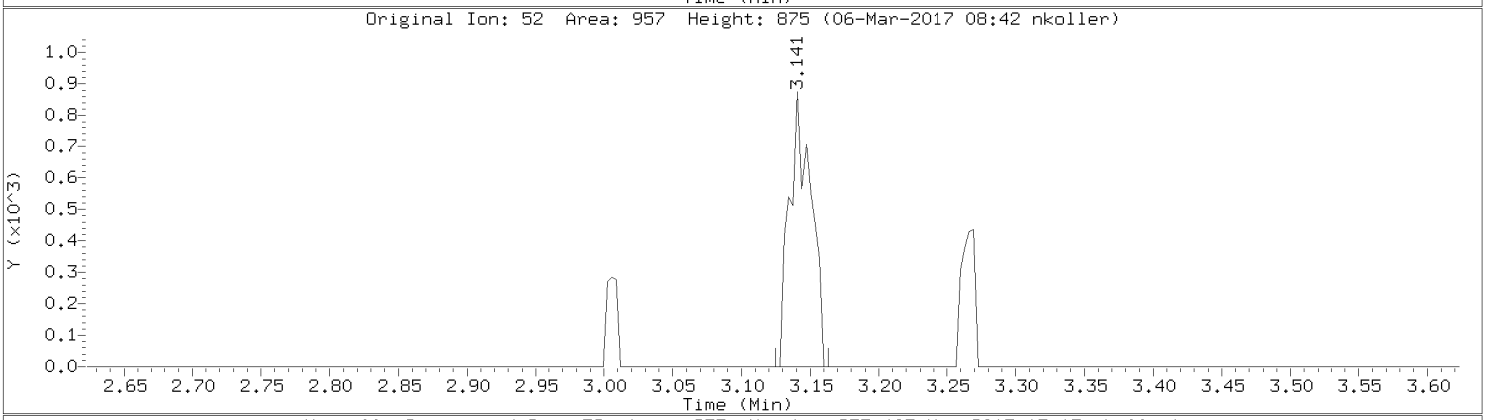


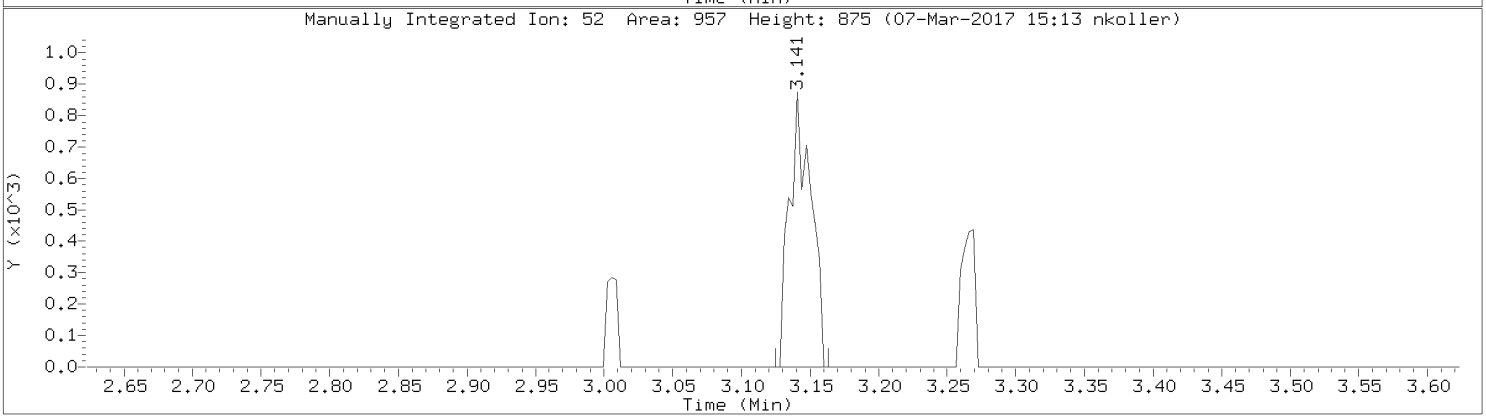
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06414.D
Injection Date: 05-MAR-2017 15:48
Instrument: 10airB.i
Lab Sample ID: 10379458014

Compound: Chloromethane
CAS Number: 74-87-3



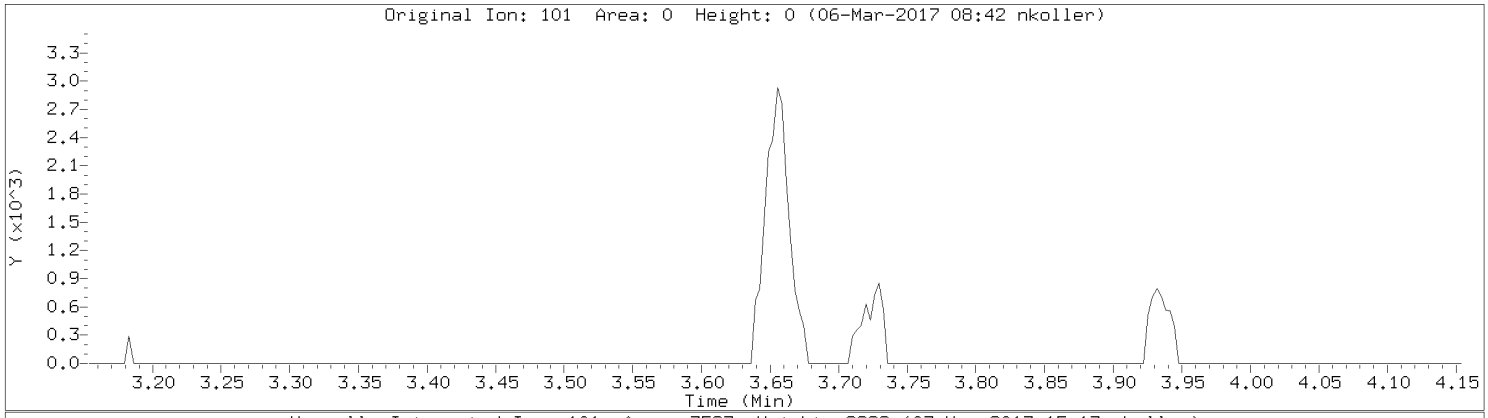


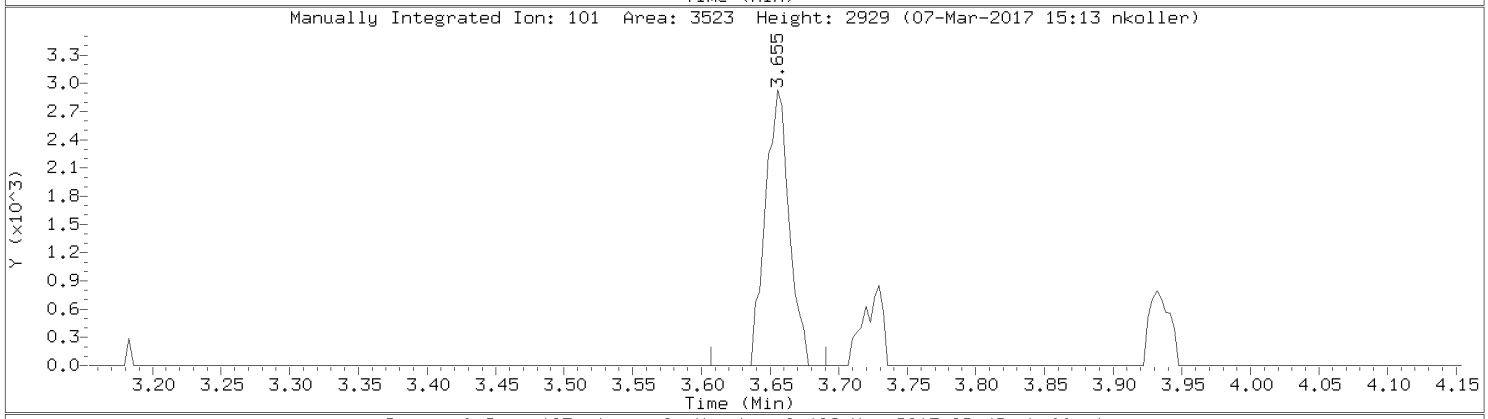


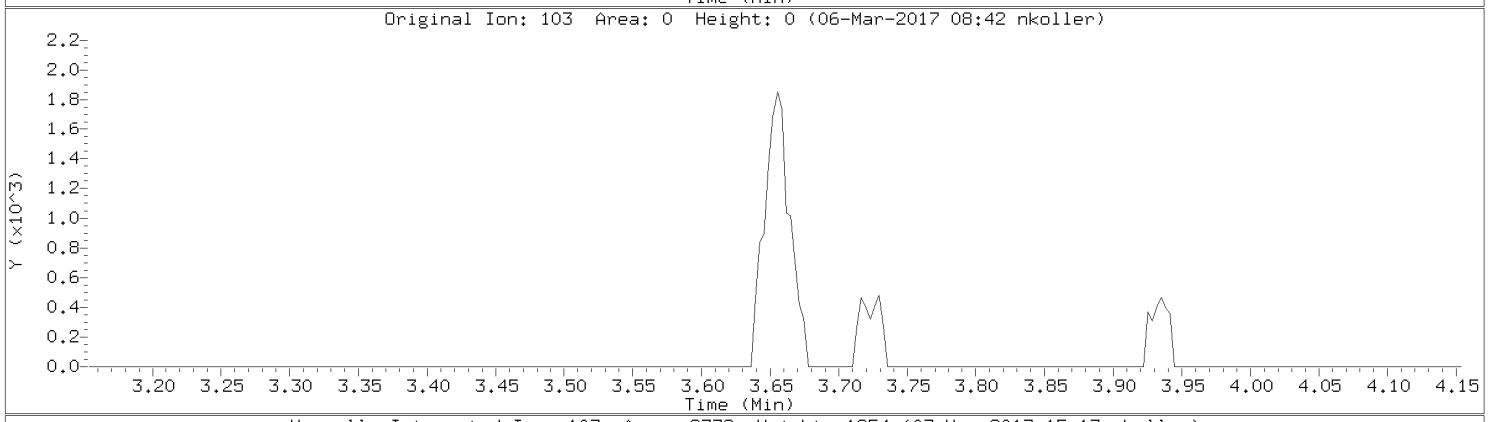


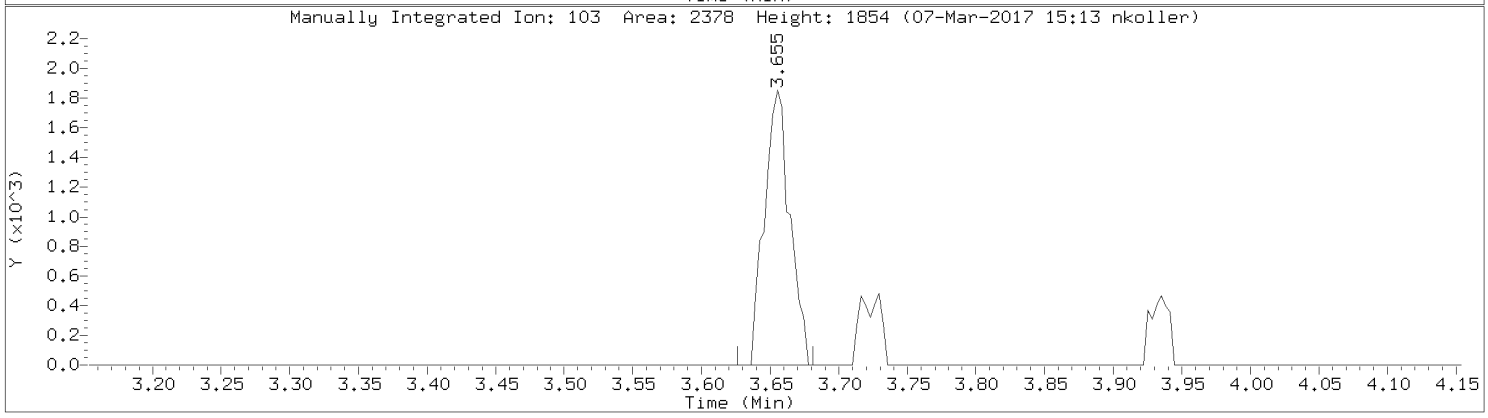
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06414.D
Injection Date: 05-MAR-2017 15:48
Instrument: 10airB.i
Lab Sample ID: 10379458014

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

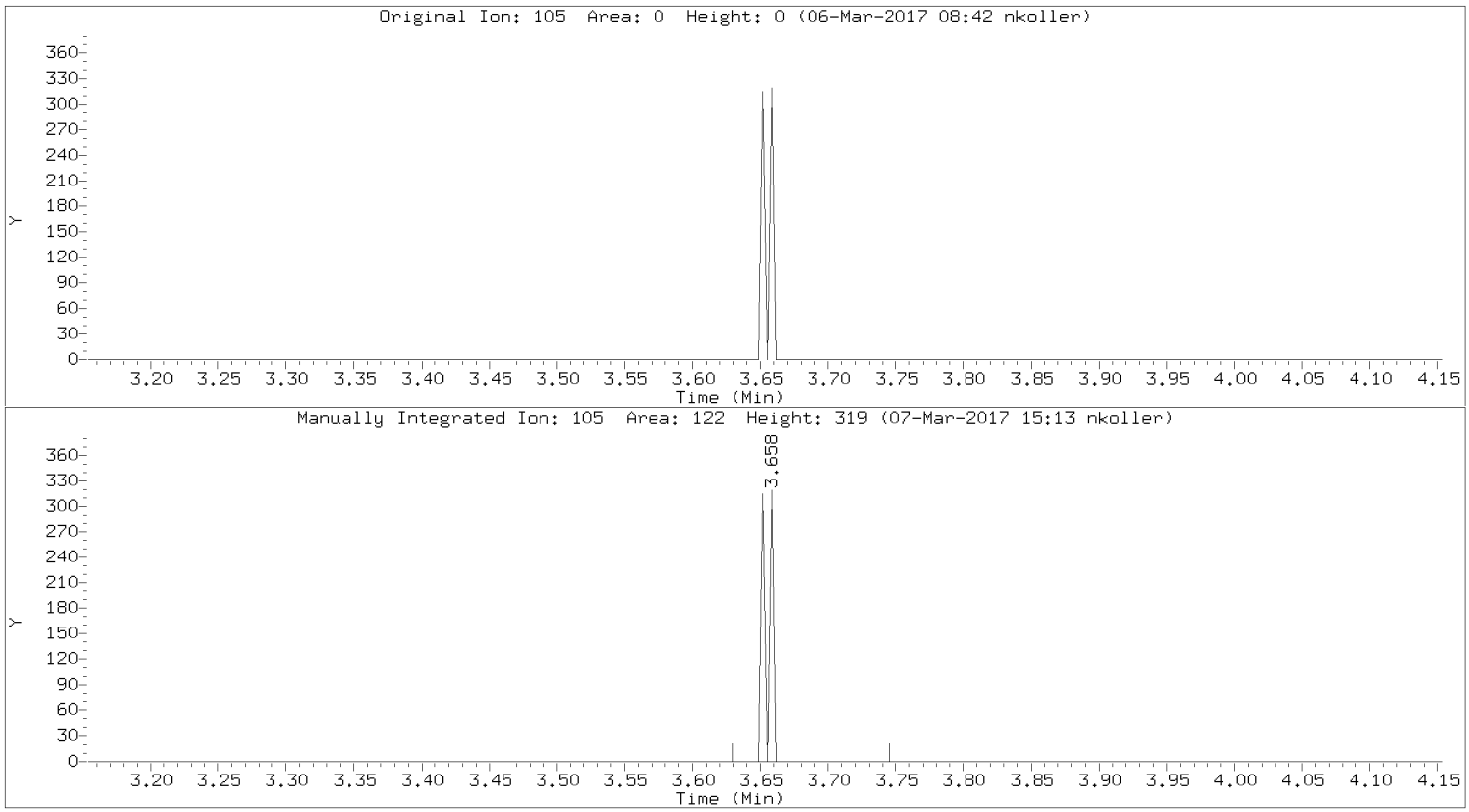






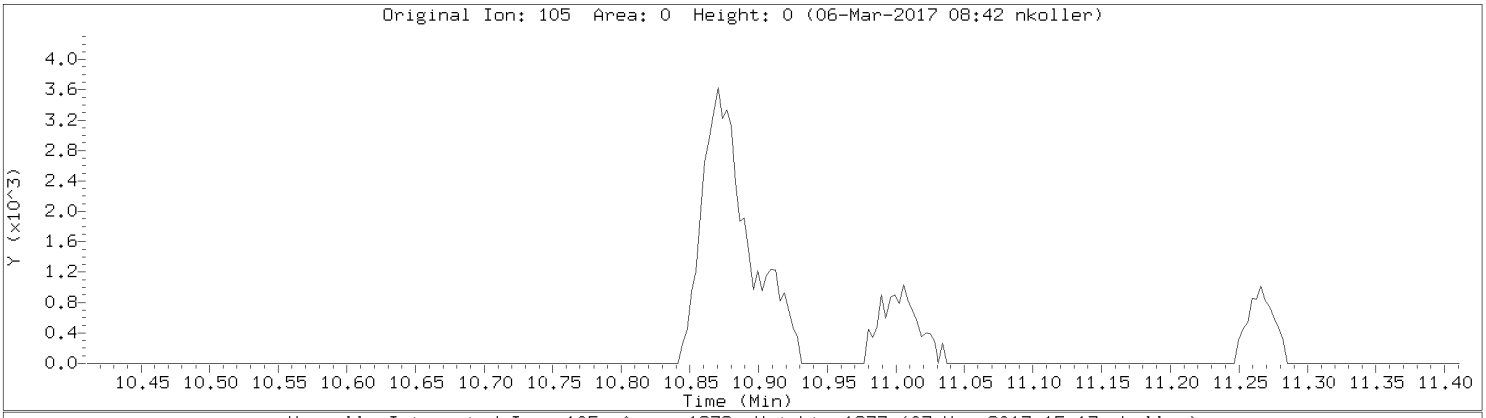


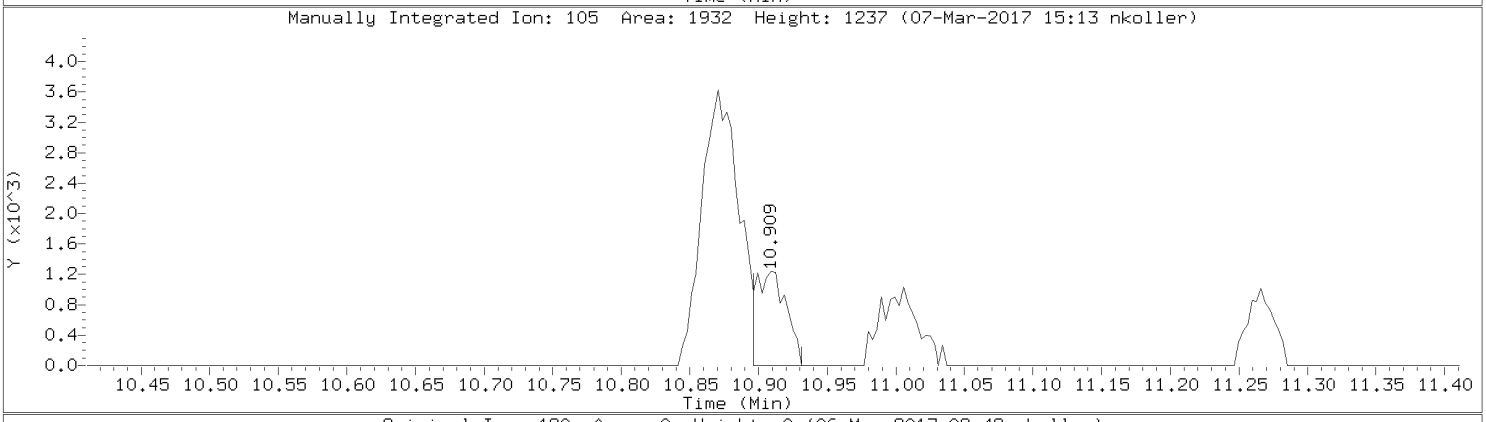
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06414.D
Injection Date: 05-MAR-2017 15:48
Instrument: 10airB.i
Lab Sample ID: 10379458014

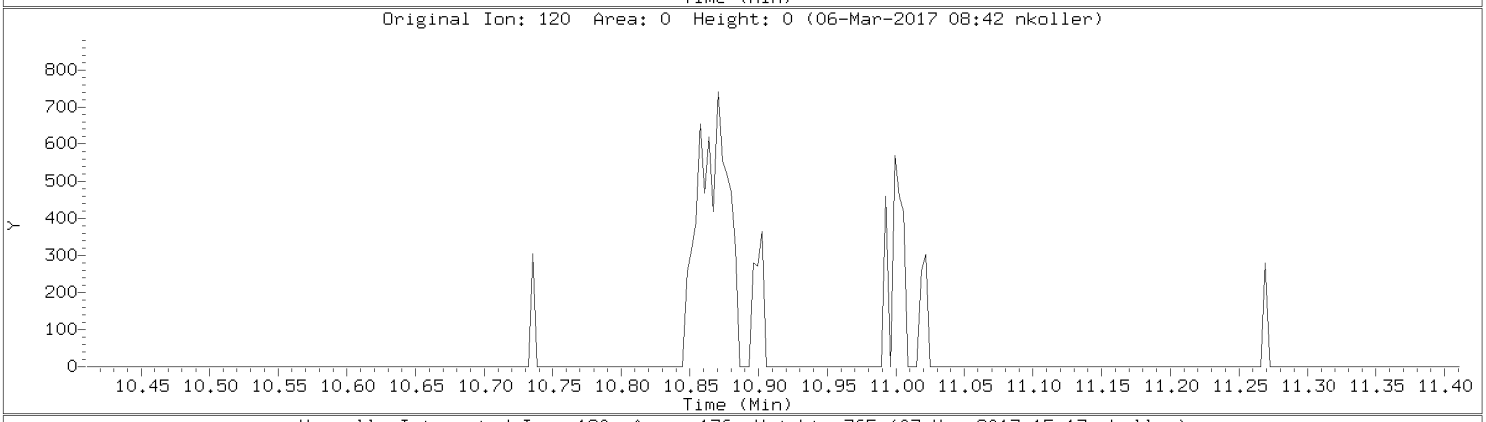


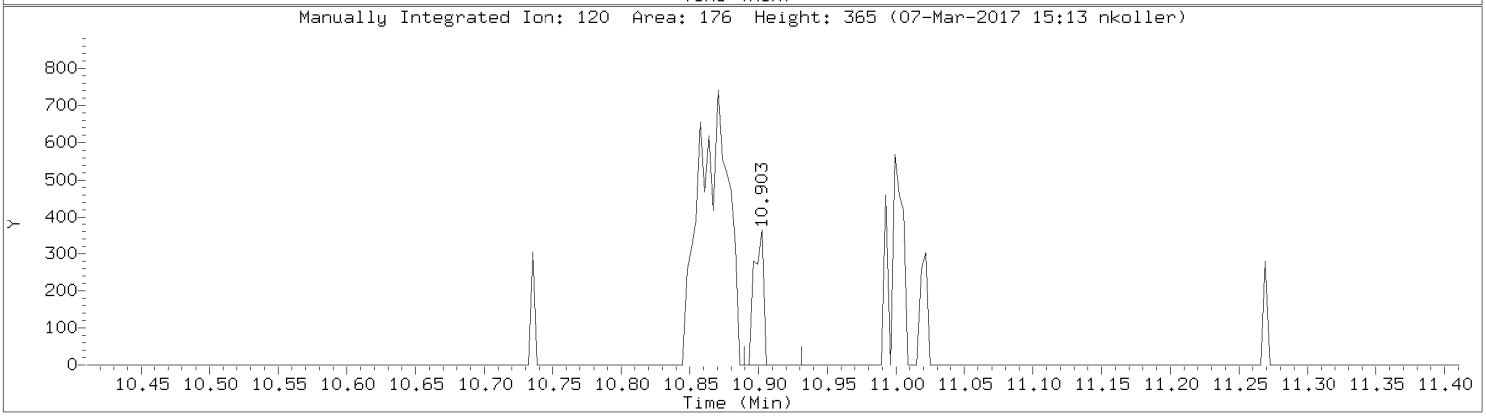
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06414.D
Injection Date: 05-MAR-2017 15:48
Instrument: 10airB.i
Lab Sample ID: 10379458014

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

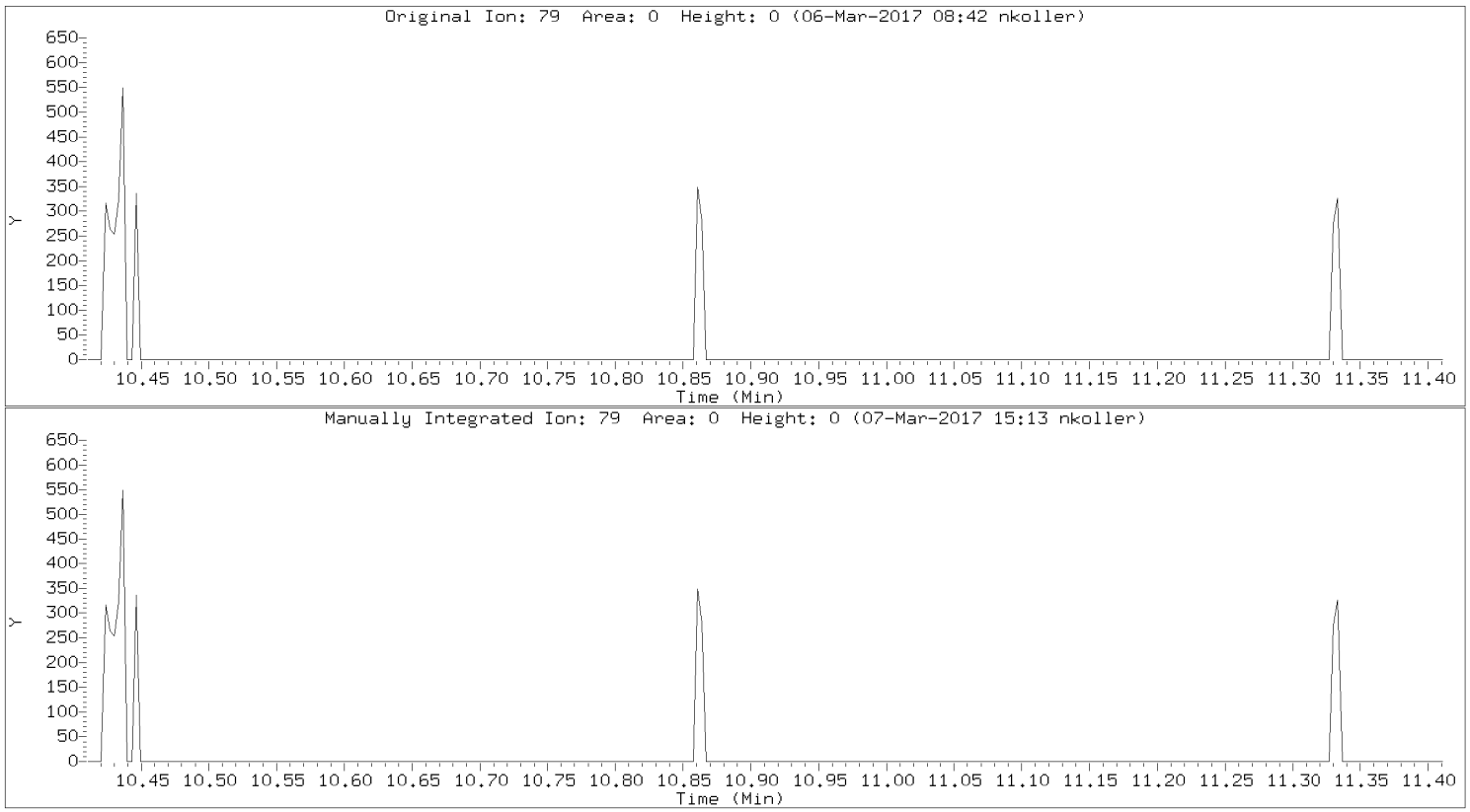








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06414.D
Injection Date: 05-MAR-2017 15:48
Instrument: 10airB.i
Lab Sample ID: 10379458014



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-C1_20170215DUP **Lab ID: 10379458015** Collected: 02/15/17 16:38 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**7.9**	ug/m3	4.6	1.6	1.92		03/05/17 16:19	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 16:19	107-05-1	
Benzene	**<0.23**	ug/m3	0.62	0.23	1.92		03/05/17 16:19	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 16:19	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 16:19	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 16:19	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 16:19	106-99-0	
2-Butanone (MEK)	**<0.44**	ug/m3	5.8	0.44	1.92		03/05/17 16:19	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 16:19	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/05/17 16:19	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 16:19	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/05/17 16:19	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 16:19	75-00-3	
Chloroform	**<0.36**	ug/m3	0.95	0.36	1.92		03/05/17 16:19	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/05/17 16:19	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 16:19	76-15-3	CL
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/05/17 16:19	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 16:19	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 16:19	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 16:19	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 16:19	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 16:19	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 16:19	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.9	0.92	1.92		03/05/17 16:19	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 16:19	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 16:19	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 16:19	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/05/17 16:19	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/05/17 16:19	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 16:19	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 16:19	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 16:19	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 16:19	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 16:19	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 16:19	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/05/17 16:19	100-41-4	
4-Ethyltoluene	**<0.36**	ug/m3	1.9	0.36	1.92		03/05/17 16:19	622-96-8	
Hexachloro-1,3-butadiene	**13.8**	ug/m3	4.2	1.2	1.92		03/05/17 16:19	87-68-3	
n-Hexane	**<0.69**	ug/m3	1.4	0.69	1.92		03/05/17 16:19	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 16:19	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 16:19	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 16:19	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 16:19	108-87-2	
Methylene Chloride	**<1.0**	ug/m3	6.8	1.0	1.92		03/05/17 16:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 16:19	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/05/17 16:19	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D
Report Date: 07-Mar-2017 15:14

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06415.D
Lab Smp Id: 10379458015
Inj Date : 05-MAR-2017 16:19
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 15
Dil Factor: 1.92000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.920	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.057	3.021	(0.546)	10426	0.21748	0.418(H)	
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.539	3.542	(0.632)	37712	8.23502	15.8	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.539	3.578	(0.632)	9188	0.60440	1.16(Q)	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.652	3.655	(0.652)	4022	0.11771	0.226(MH)	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.719	3.713	(0.664)	33899	1.71425	3.29	
19	Isopropyl Alcohol	45	3.761	3.764	(0.672)	19690	0.97632	1.87	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D
Report Date: 07-Mar-2017 15:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						(D)
	30 Vinyl Acetate	43	4.433	4.385	(0.792)	4012	0.30316	0.582	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.481	4.481	(0.800)	366162	9.23437	9.23	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	Compound Not Detected.						(D)
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.716	4.713	(0.842)	2856	0.11166	0.214(QM)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						(D)
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						(D)
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						(D)
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1246320	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						(D)
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	5.973	5.986	(1.067)	160010	7.64117	14.7	
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1054389	9.45224	9.45	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.150	7.153	(1.277)	5667	0.11258	0.216	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.565	7.584	(0.876)	2880	0.10362	0.199(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.979	7.986	(0.924)	19203	0.68057	1.31	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	812580	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	Compound Not Detected.						(D)
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						(D)
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D
Report Date: 07-Mar-2017 15:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	Compound Not Detected.						(D)
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.378	11.378	(2.032)	3259	0.33694	0.647(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						(D)
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	460336	10.2840	10.3	
86	Benzyl Chloride	91	Compound Not Detected.						(D)
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						(D)
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						(D)
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						(D)
93	1,2,4-Trichlorobenzene	180	14.037	14.034	(1.625)	4771	0.72561	1.39	
94	Naphthalene	128	14.172	14.169	(1.641)	18294	0.87919	1.69	
95	Hexachlorobutadiene	225	14.416	14.413	(1.669)	9338	0.66226	1.27	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D
Report Date: 07-Mar-2017 15:14

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06415.D
Lab Smp Id: 10379458015
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

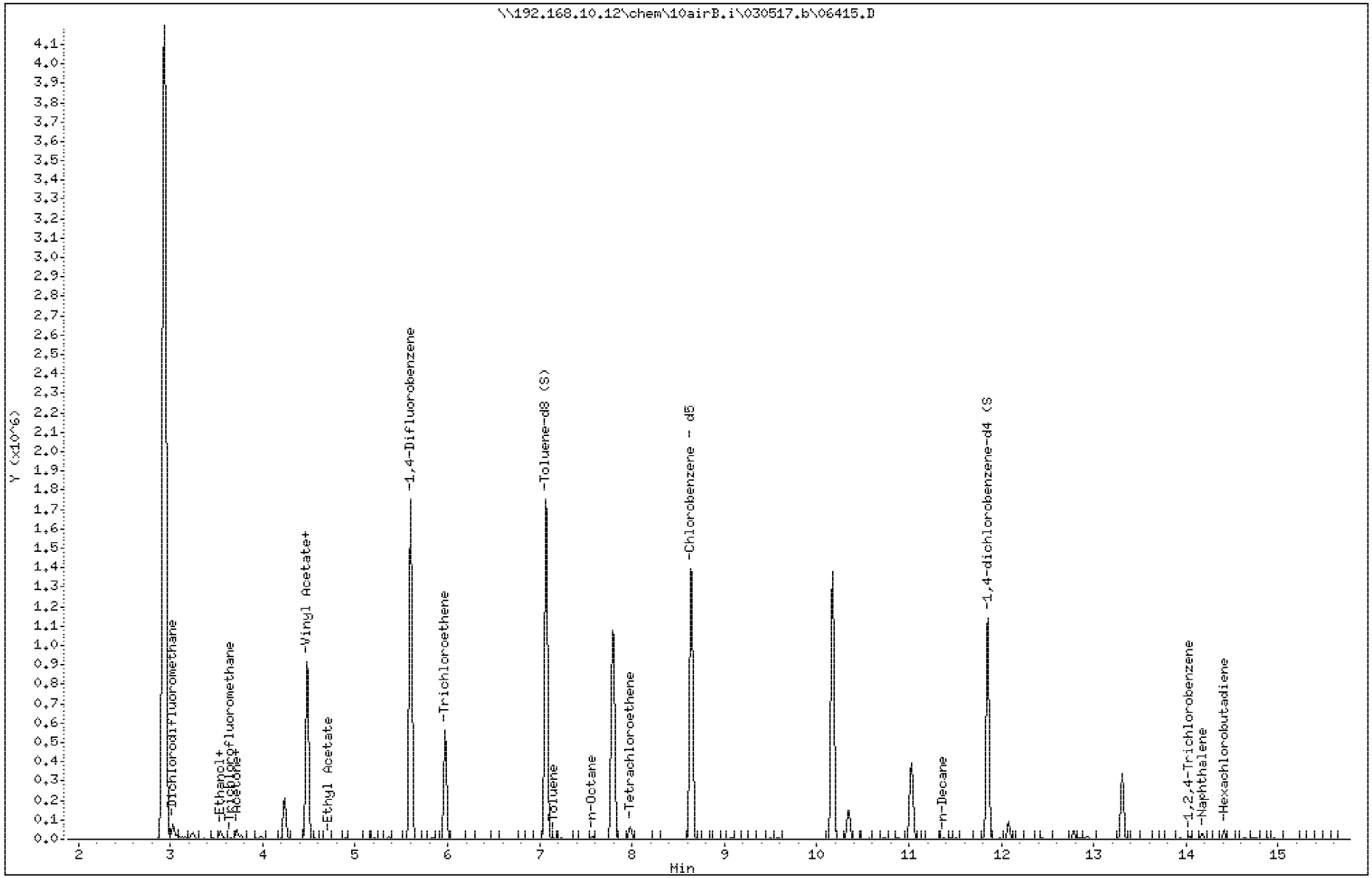
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1246320	-11.87
67 Chlorobenzene - d	951026	570616	1331436	812580	-14.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D
Date : 05-MAR-2017 16:19
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

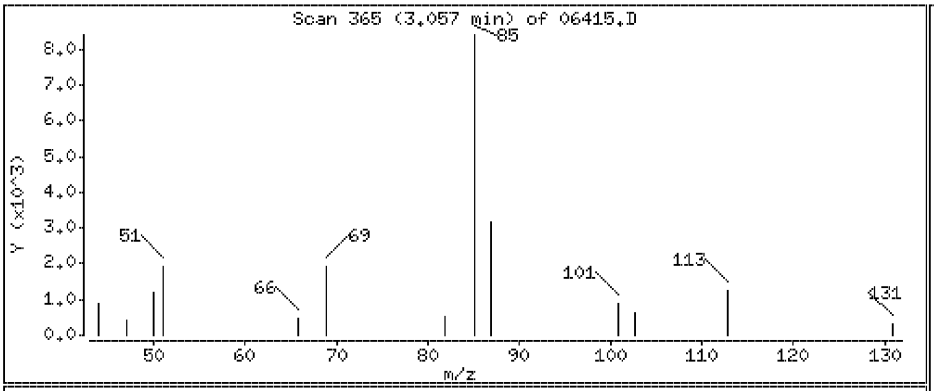
Operator: NCK

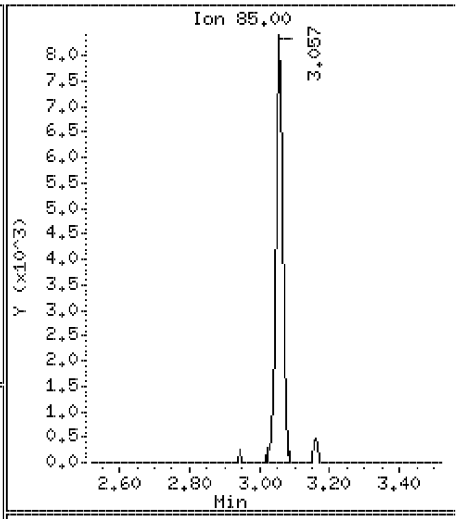
Column phase: J&W DB-5

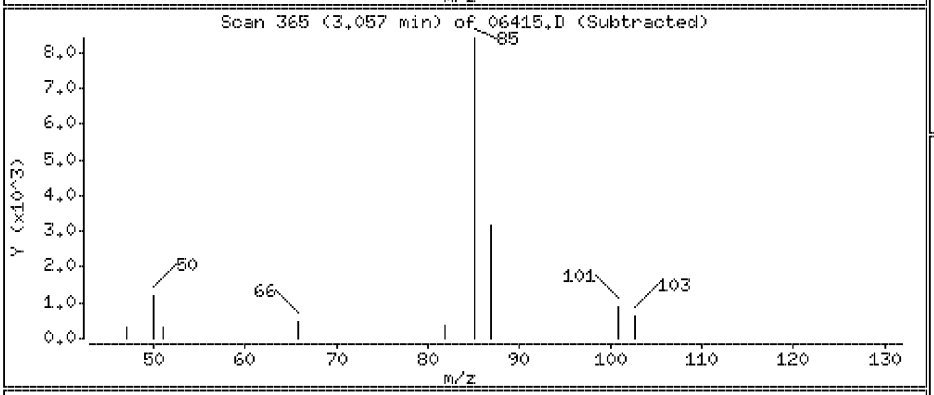
Column diameter: 0.32

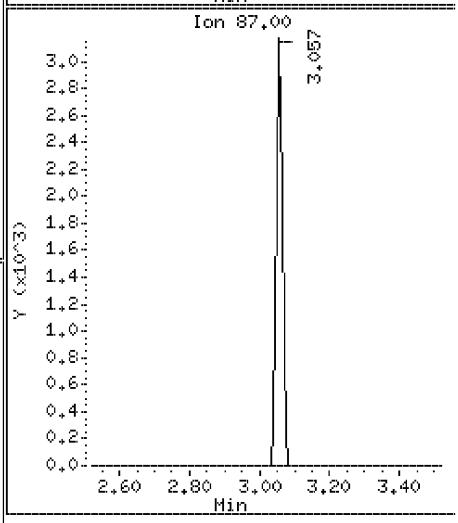
5 Dichlorodifluoromethane

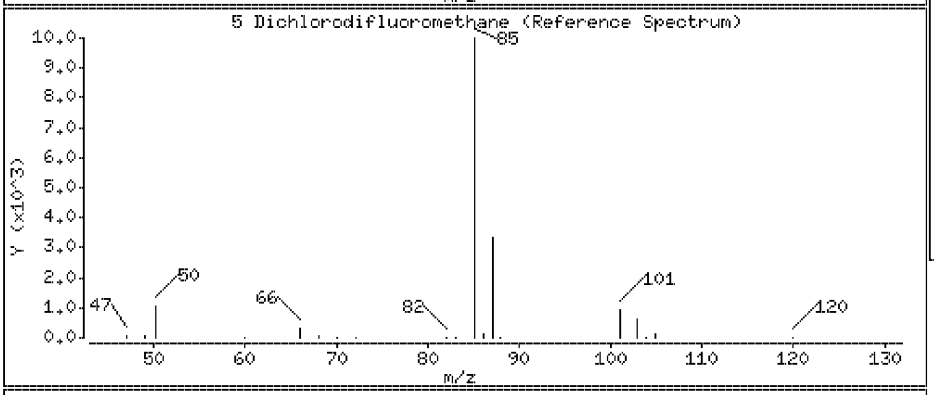
Concentration: 0.418 ppbv

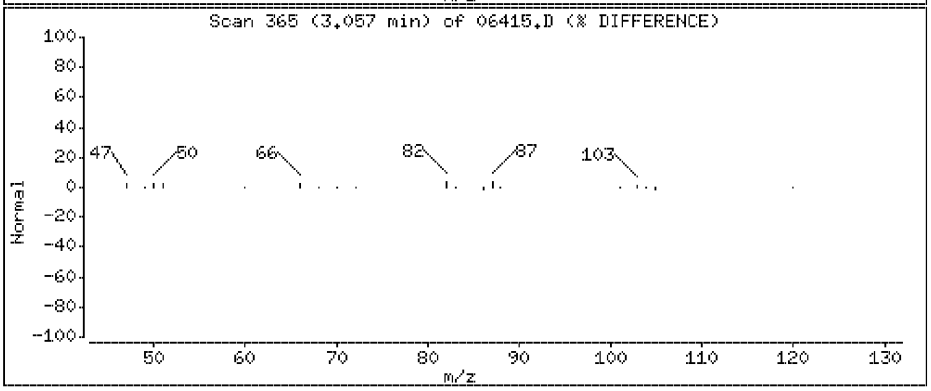












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

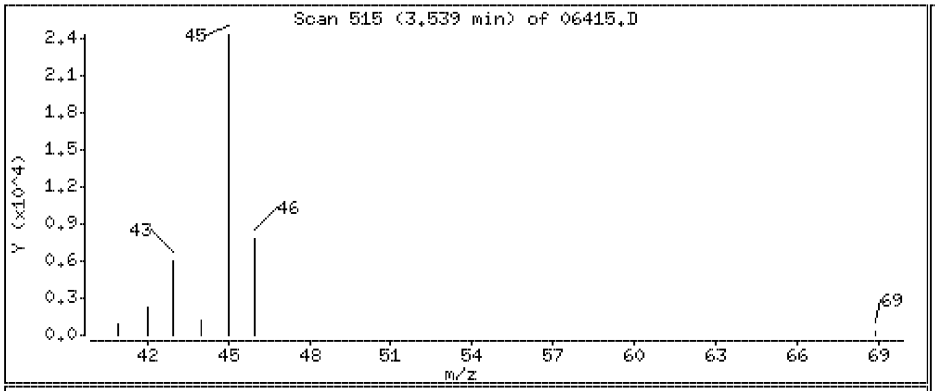
Operator: NCK

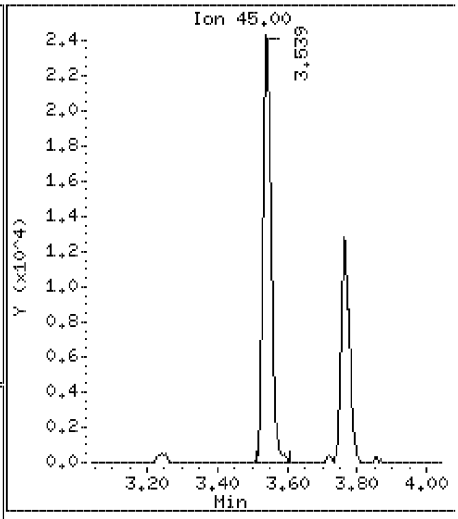
Column phase: J&W DB-5

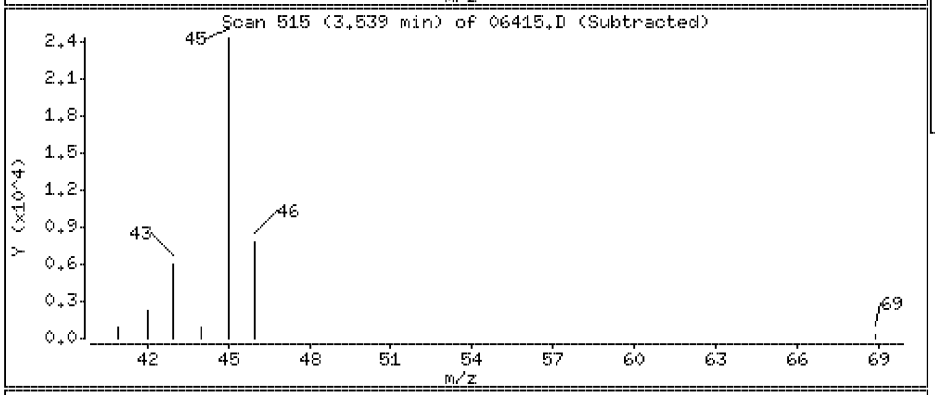
Column diameter: 0.32

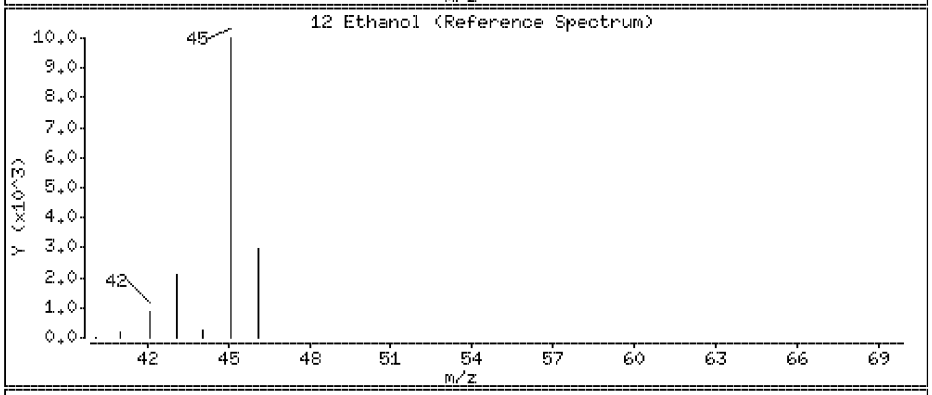
12 Ethanol

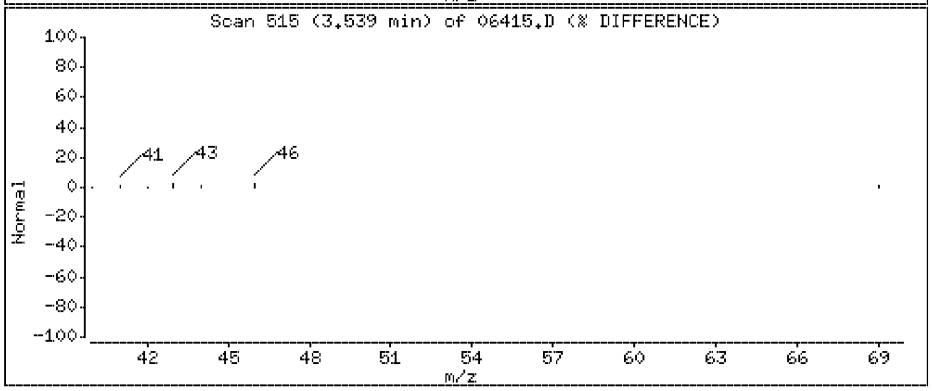
Concentration: 15.8 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

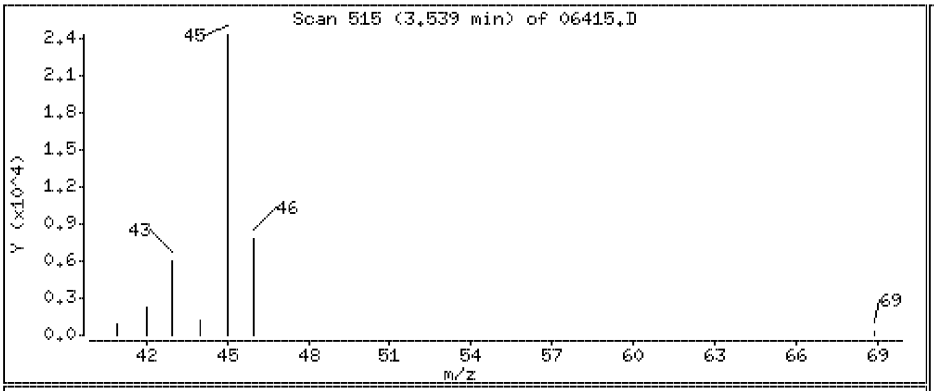
Operator: NCK

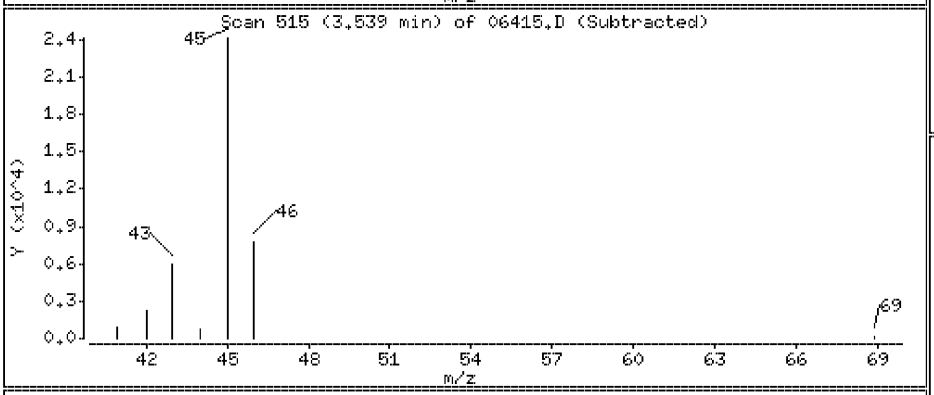
Column phase: J&W DB-5

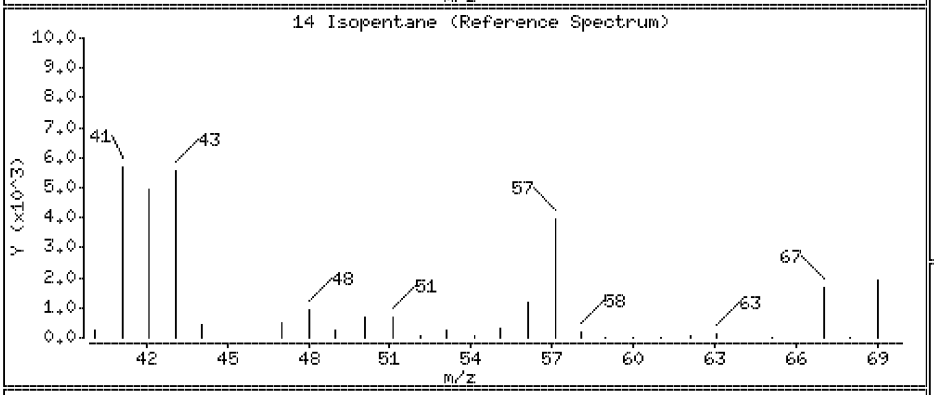
Column diameter: 0.32

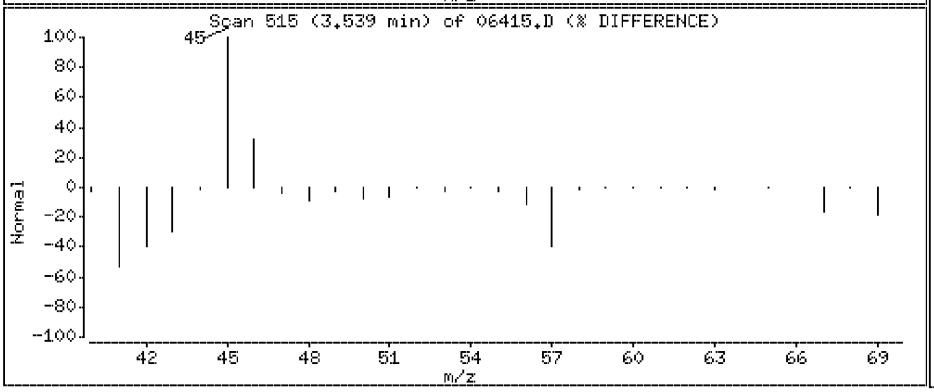
14 Isopentane

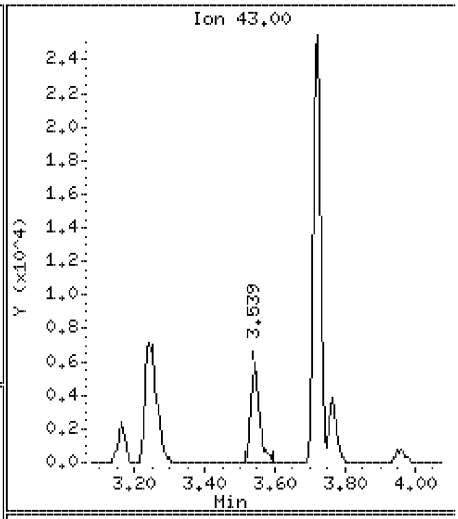
Concentration: 1.16 ppbv

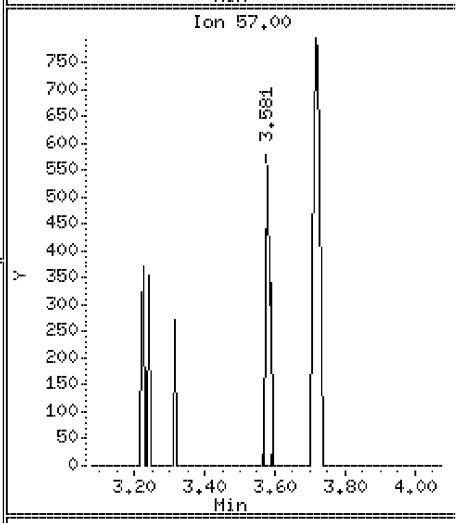


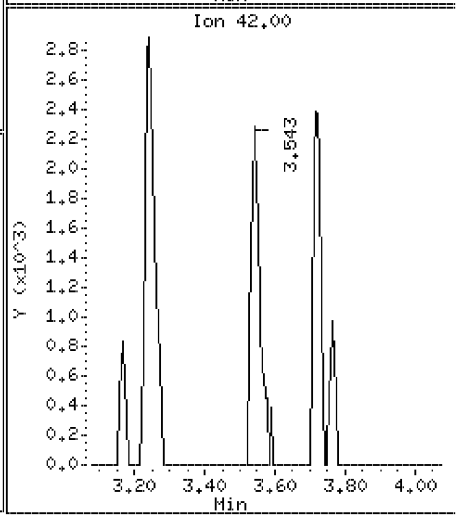












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

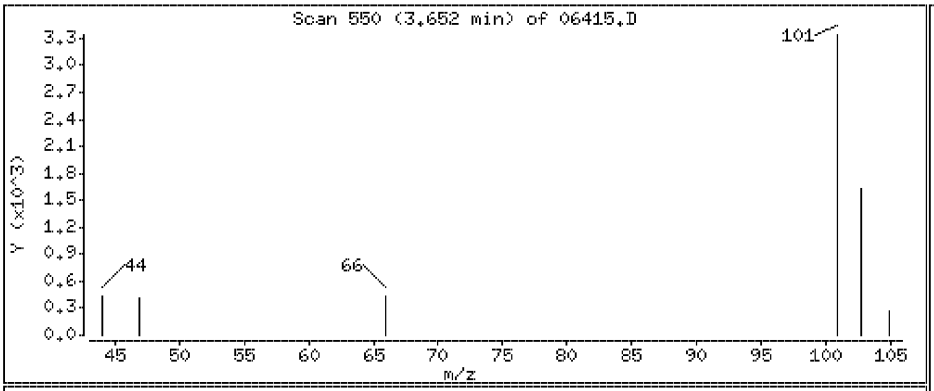
Operator: NCK

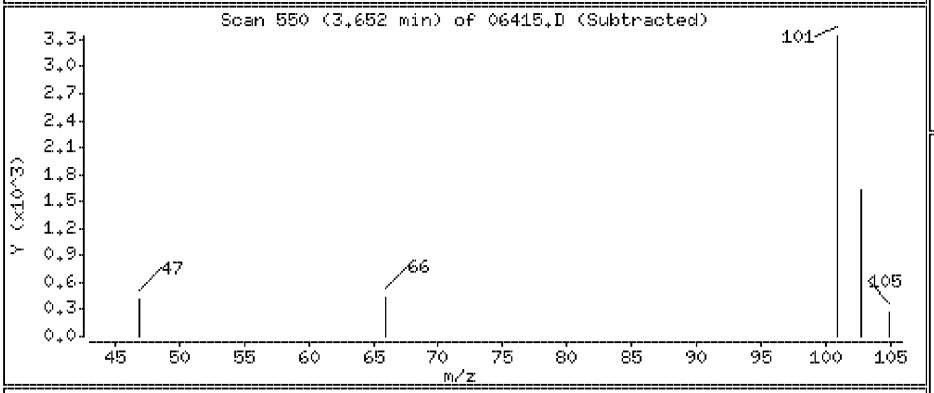
Column phase: J&W DB-5

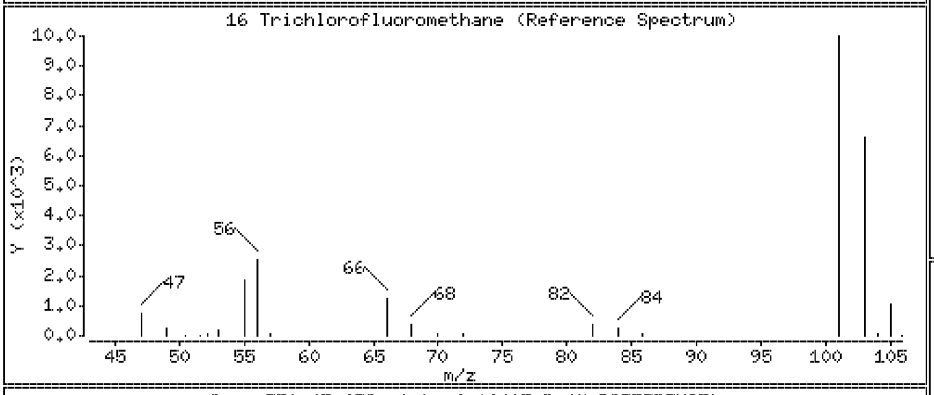
Column diameter: 0.32

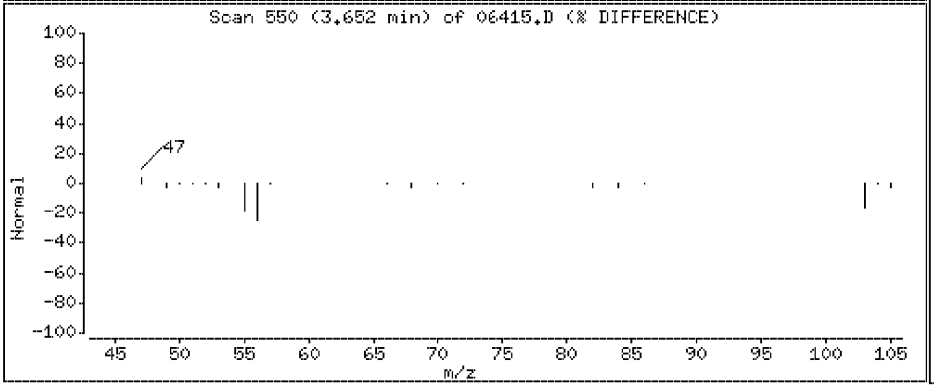
16 Trichlorofluoromethane

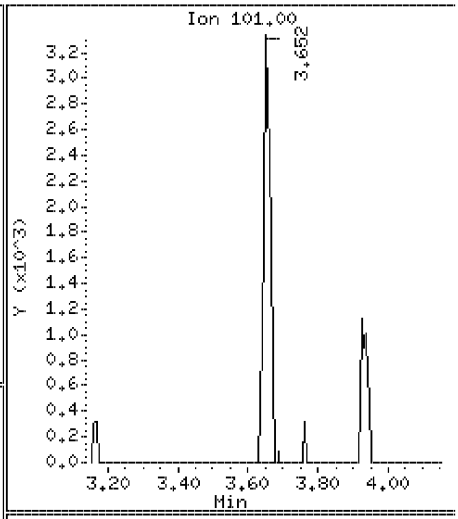
Concentration: 0.226 ppbv

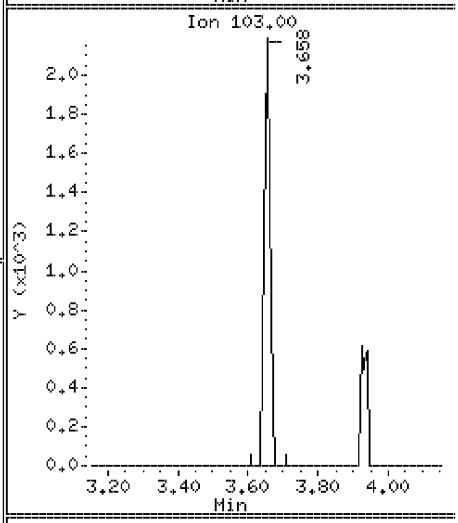


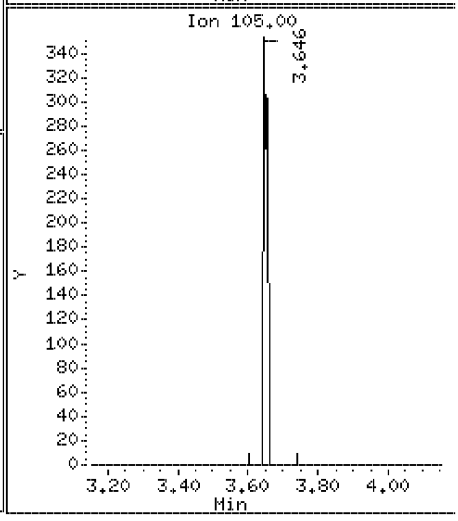












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

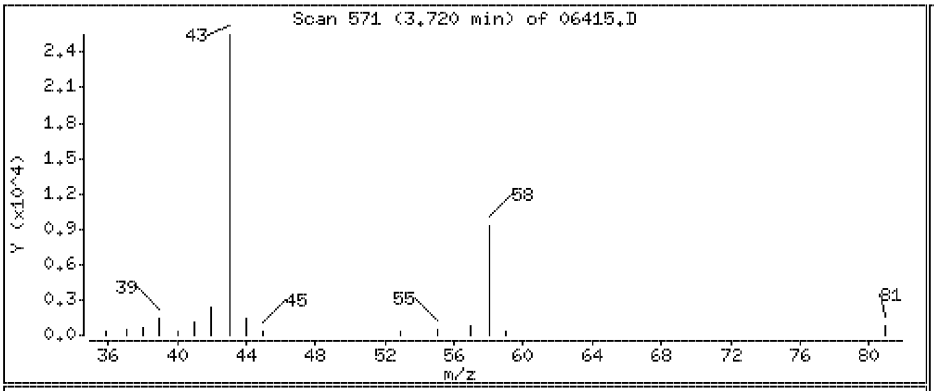
Operator: NCK

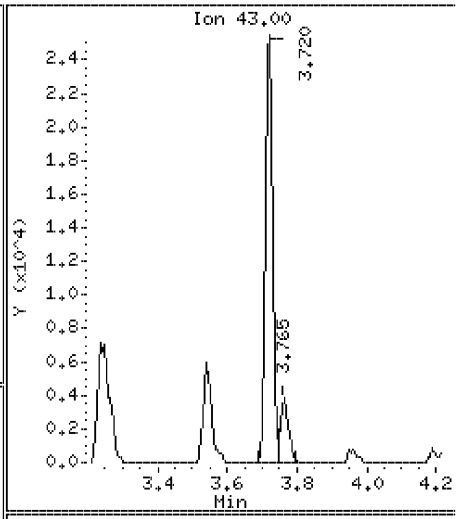
Column phase: J&W DB-5

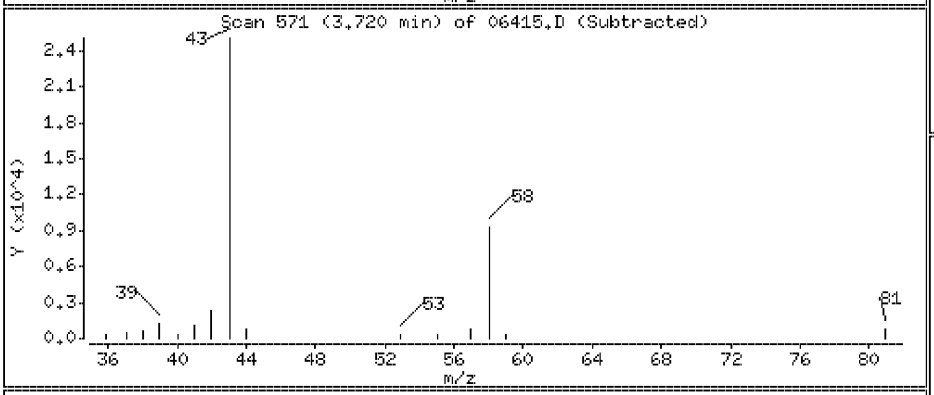
Column diameter: 0.32

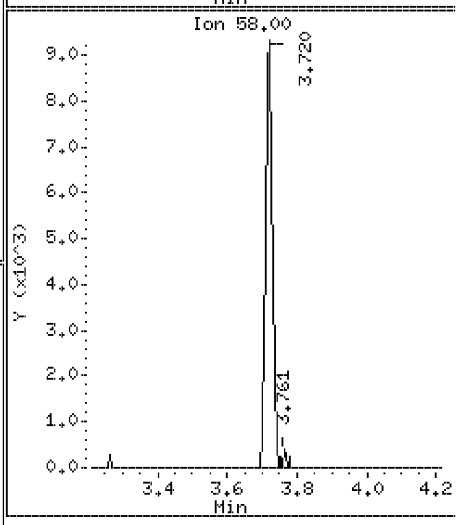
18 Acetone

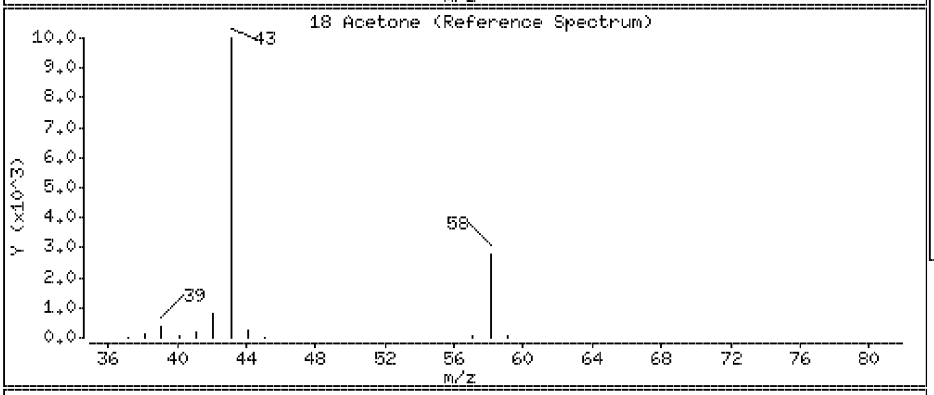
Concentration: 3.29 ppbv

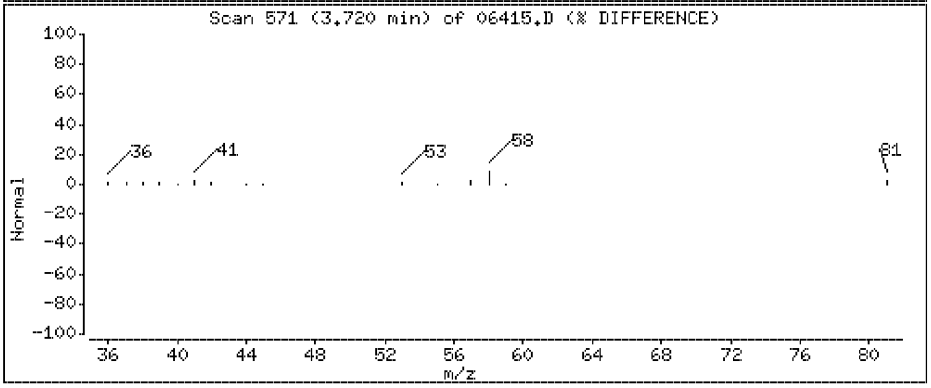












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

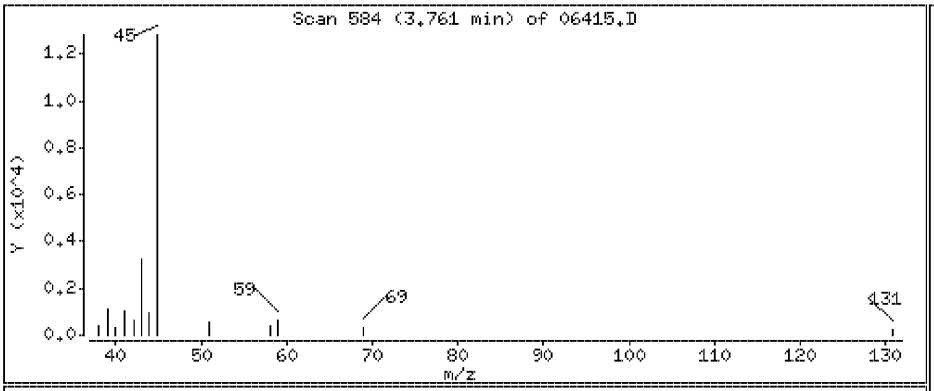
Operator: NCK

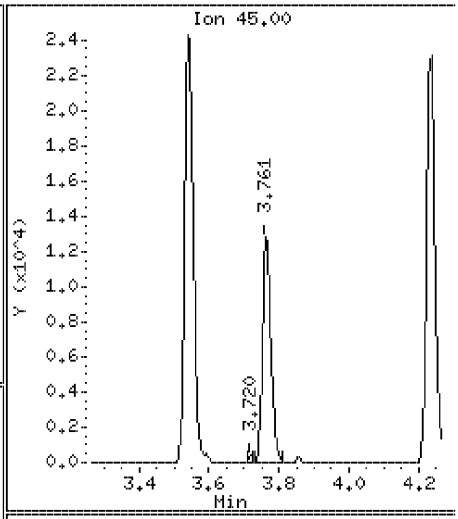
Column phase: J&W DB-5

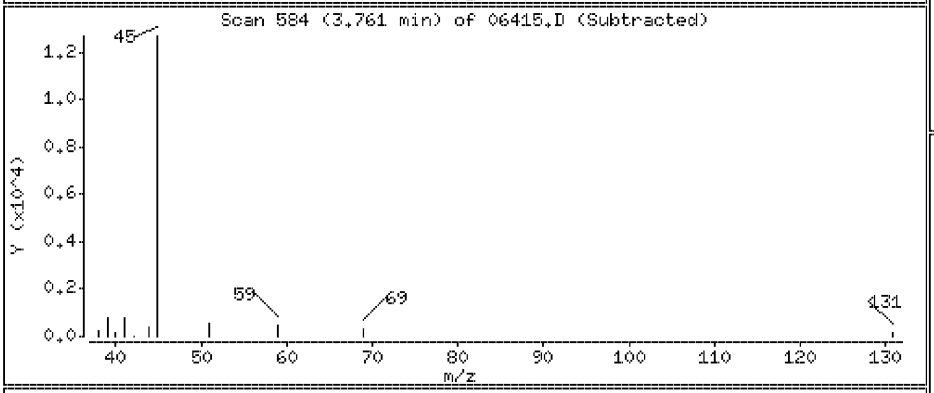
Column diameter: 0.32

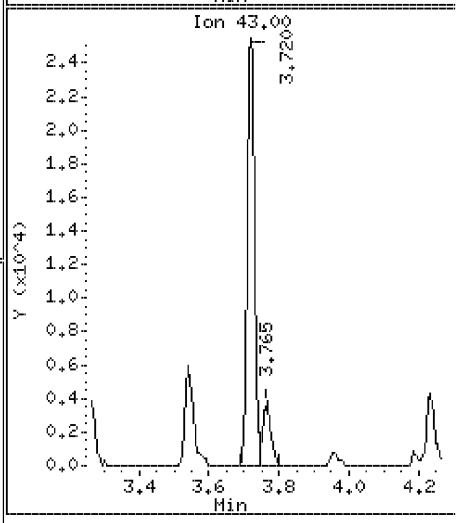
19 Isopropyl Alcohol

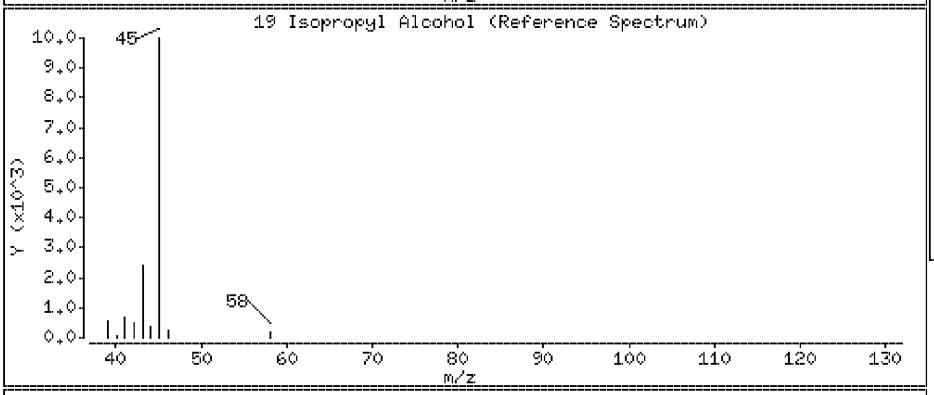
Concentration: 1.87 ppbv

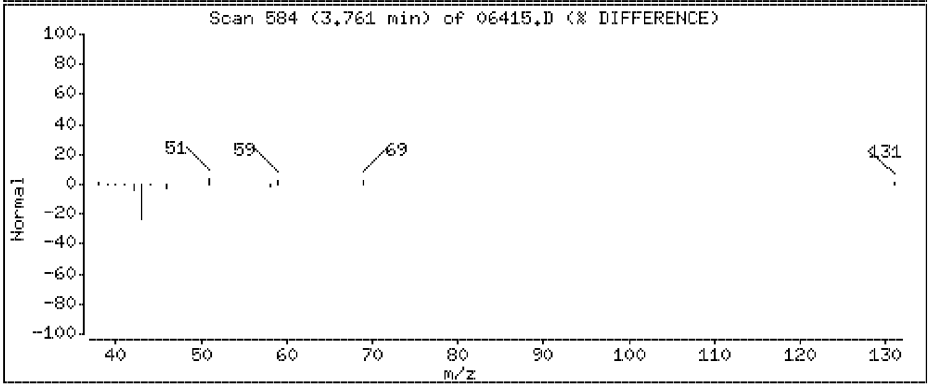












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

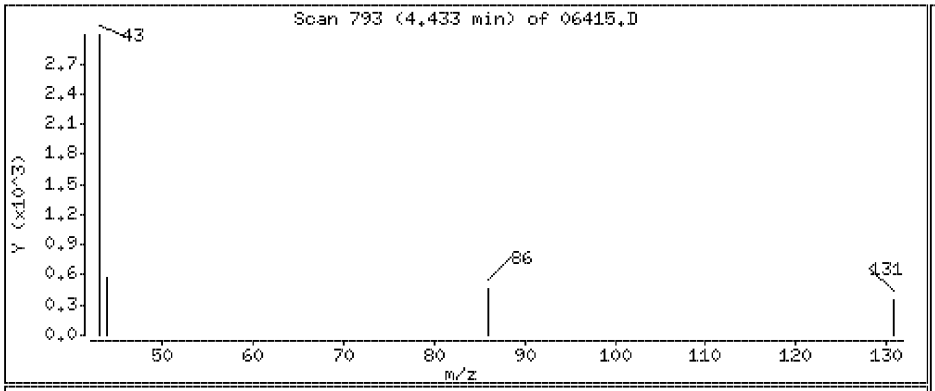
Operator: NCK

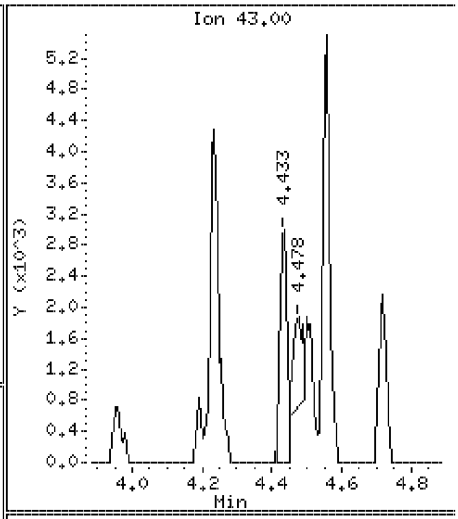
Column phase: J&W DB-5

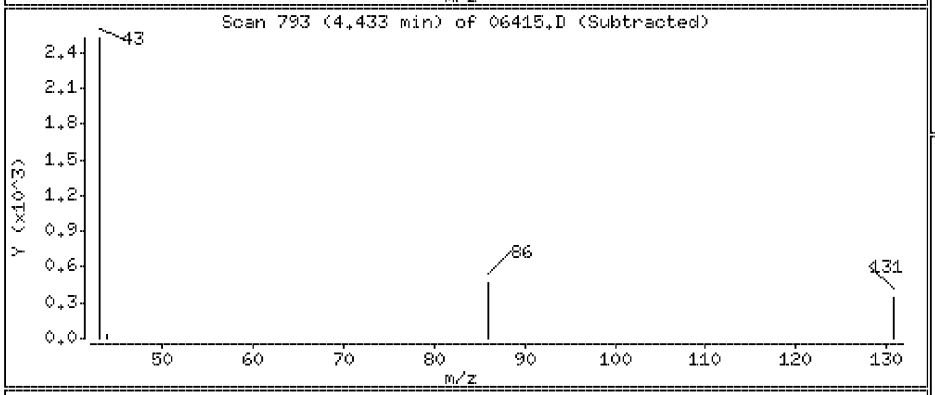
Column diameter: 0.32

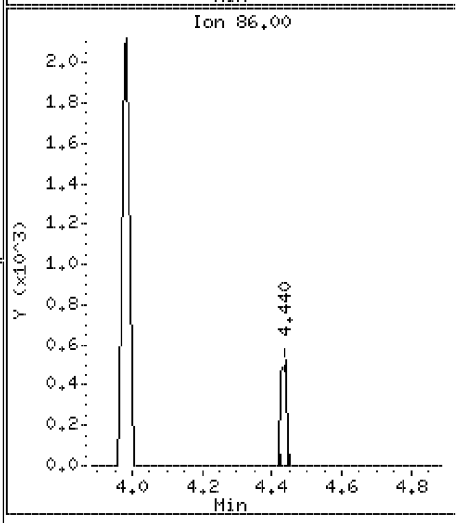
30 Vinyl Acetate

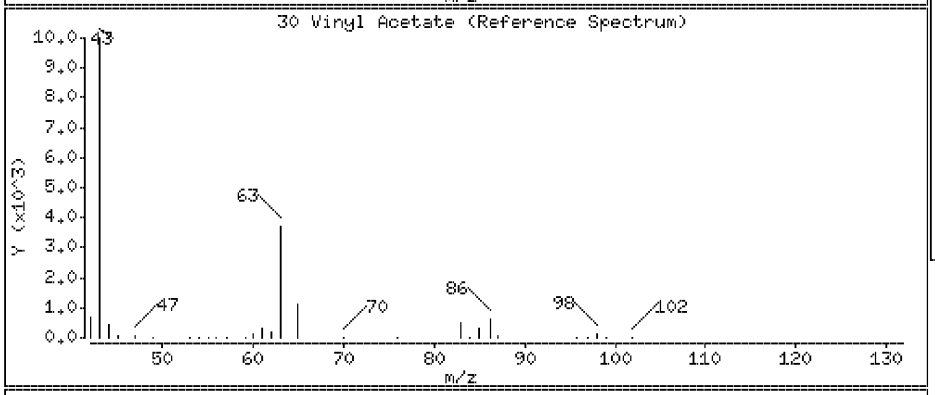
Concentration: 0.582 ppbv

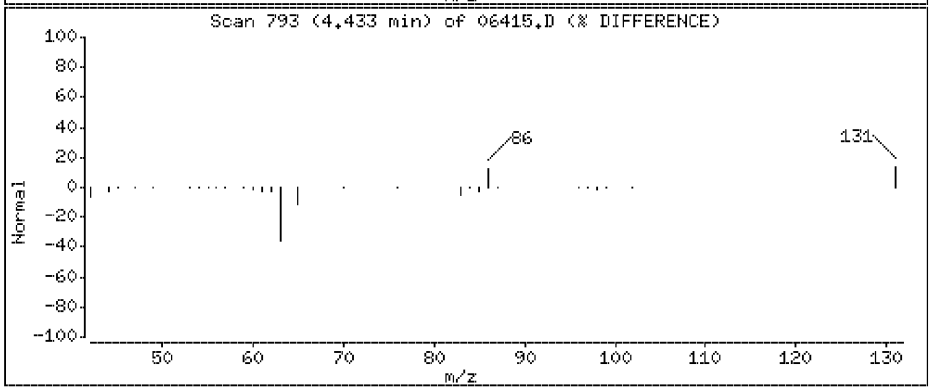












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

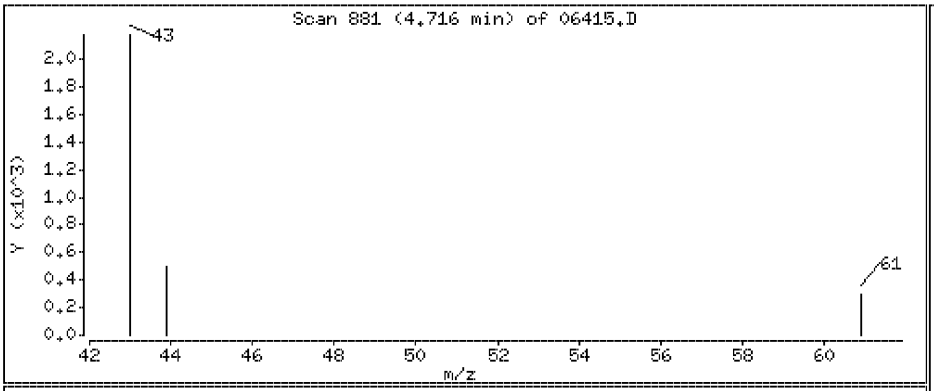
Operator: NCK

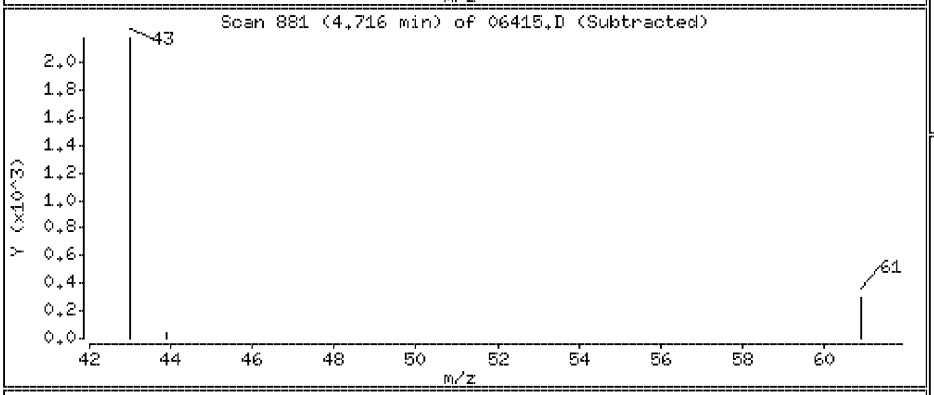
Column phase: J&W DB-5

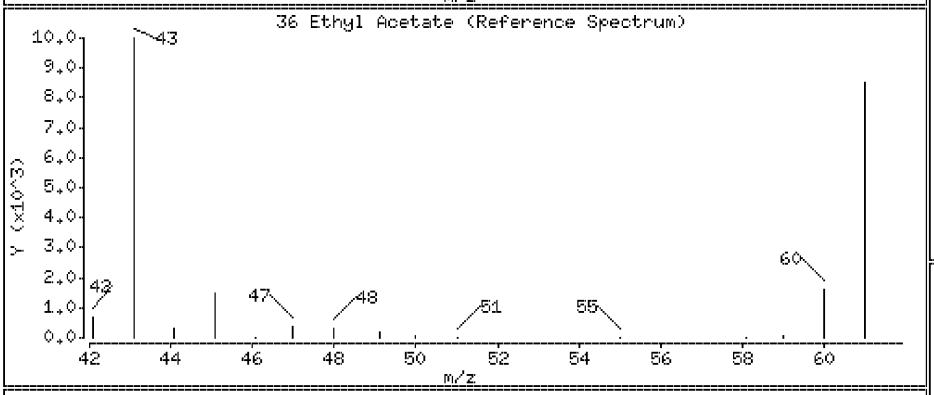
Column diameter: 0.32

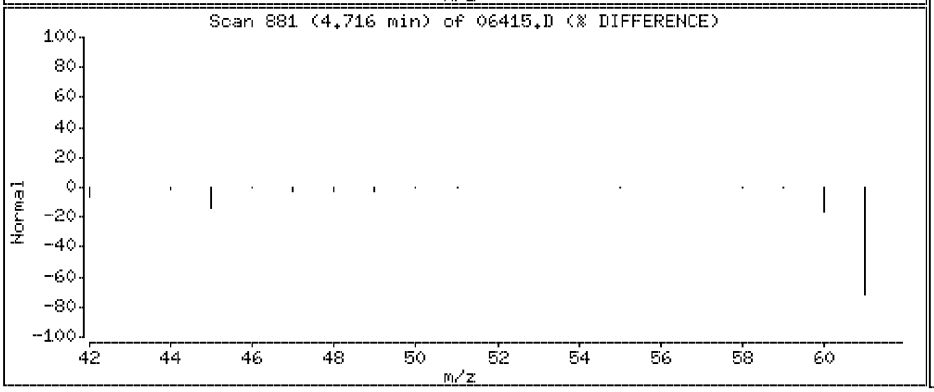
36 Ethyl Acetate

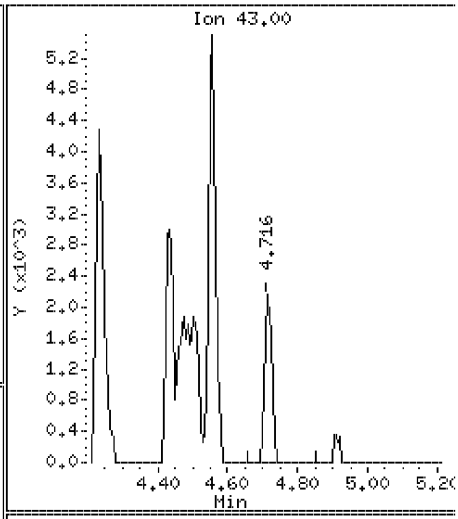
Concentration: 0.214 ppbv

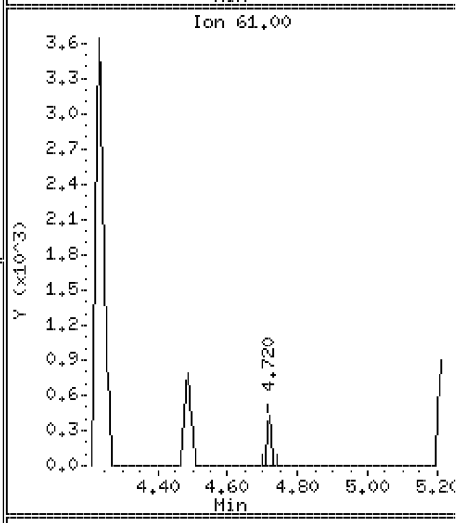


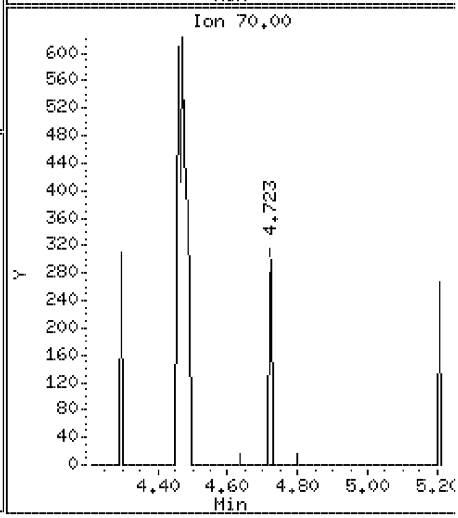












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

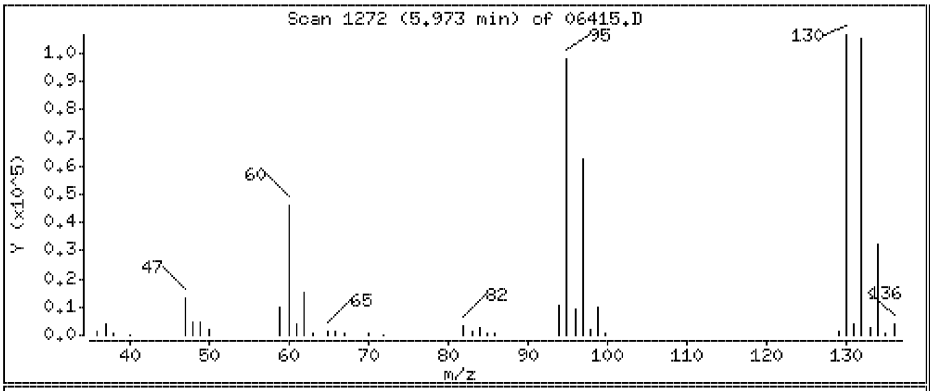
Operator: NCK

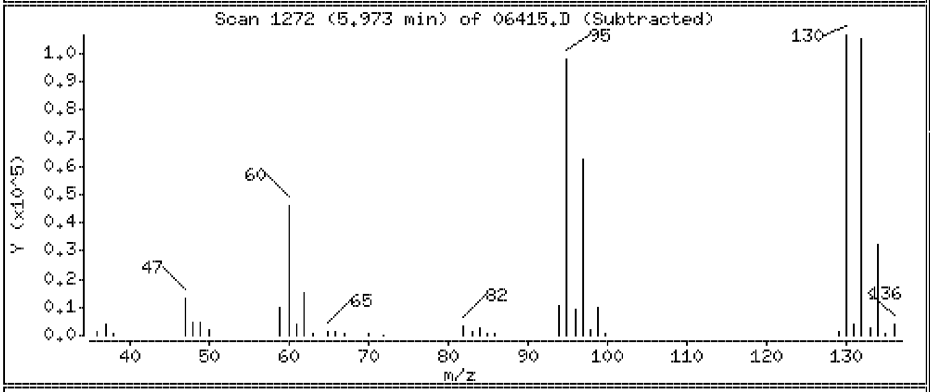
Column phase: J&W DB-5

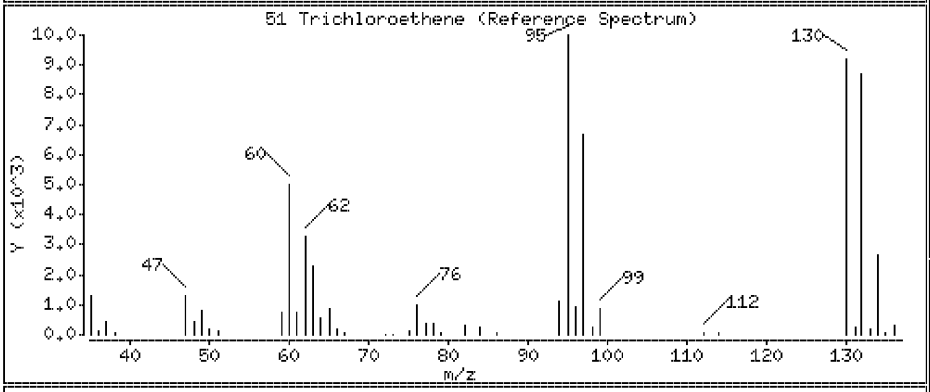
Column diameter: 0.32

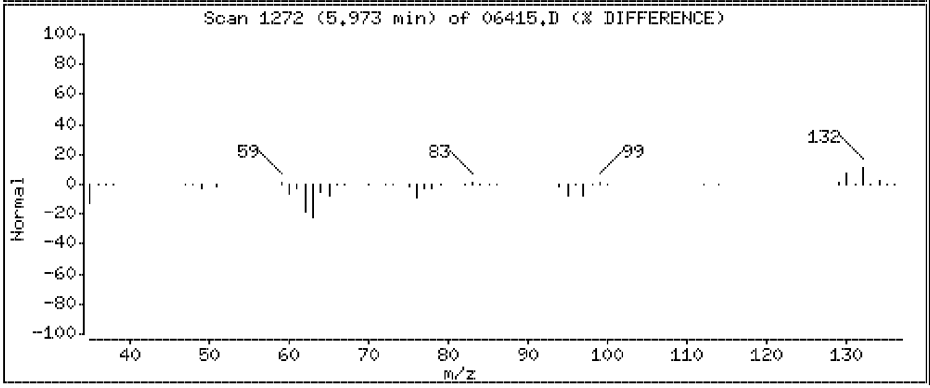
51 Trichloroethene

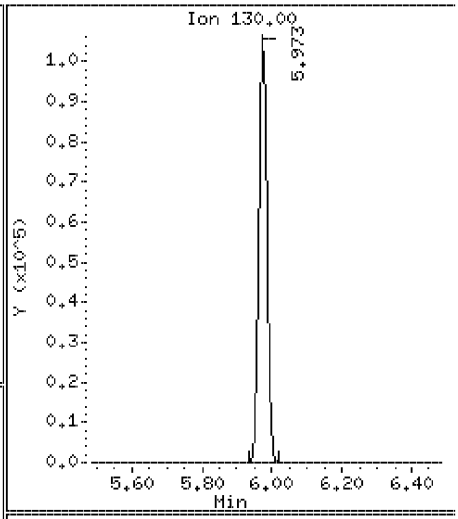
Concentration: 14.7 ppbv

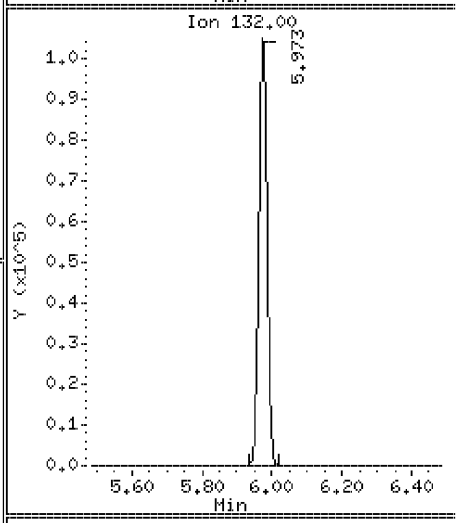


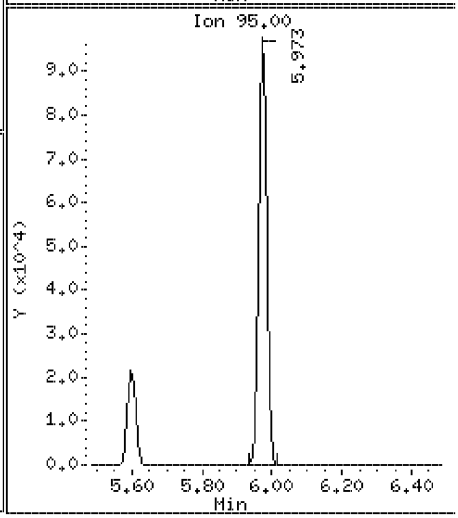












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

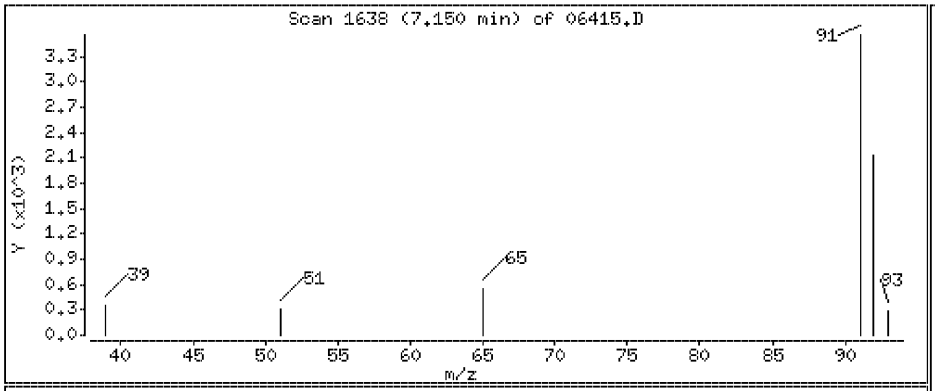
Operator: NCK

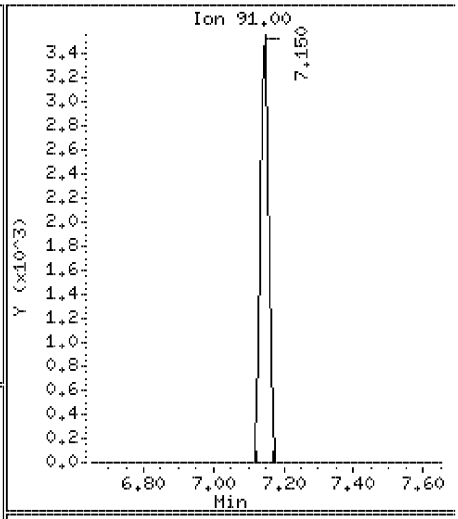
Column phase: J&W DB-5

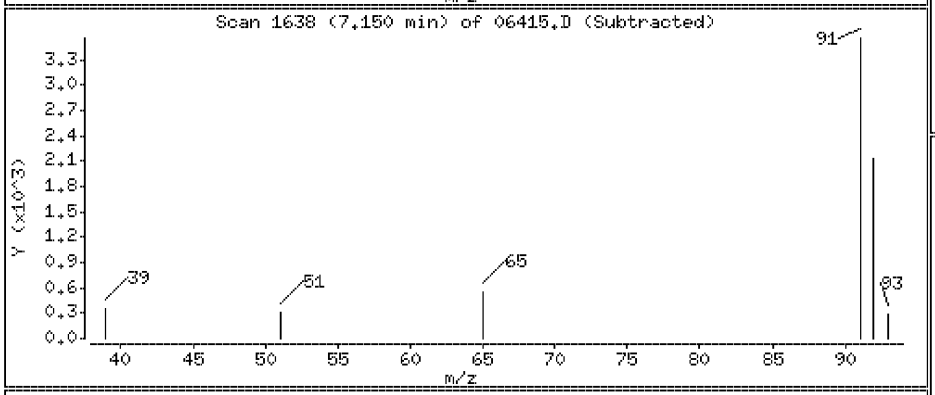
Column diameter: 0.32

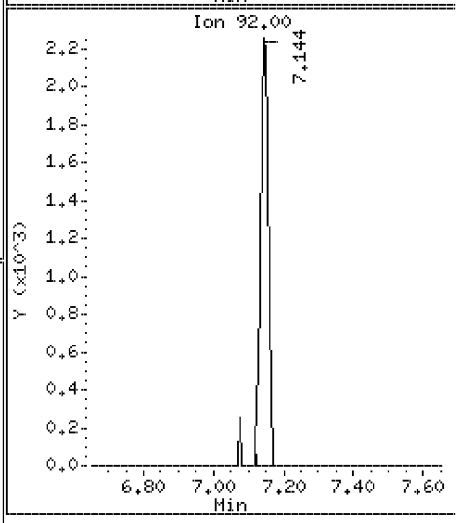
61 Toluene

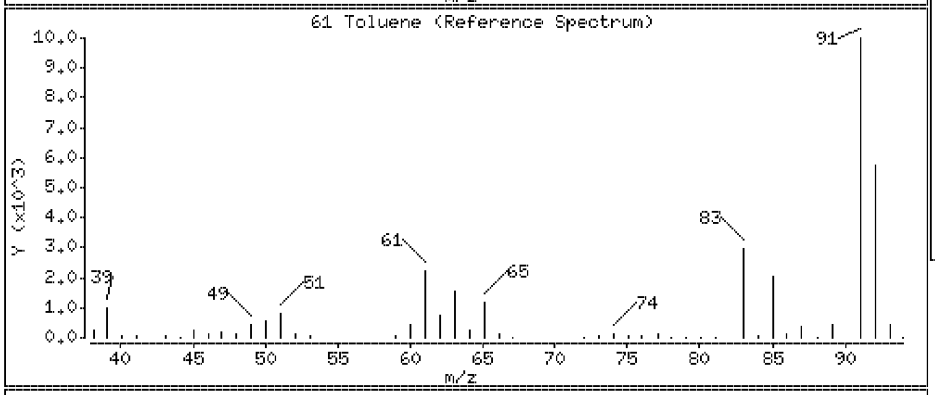
Concentration: 0.216 ppbv

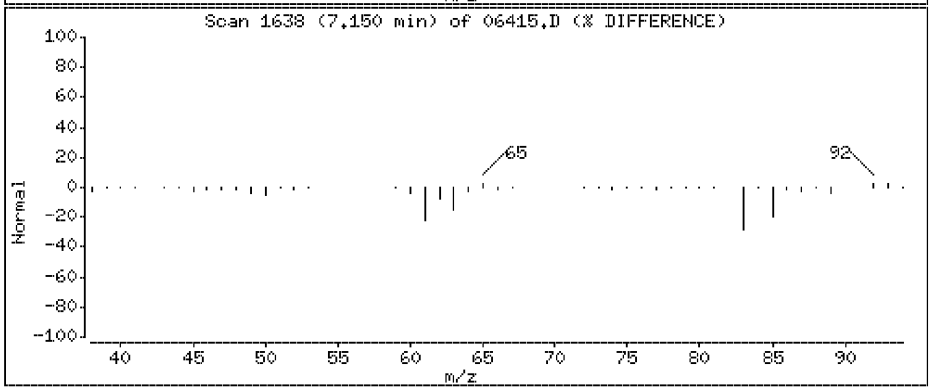












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

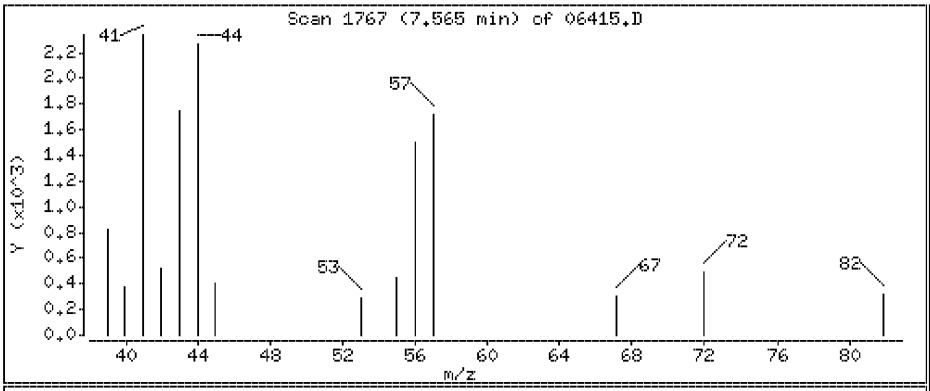
Operator: NCK

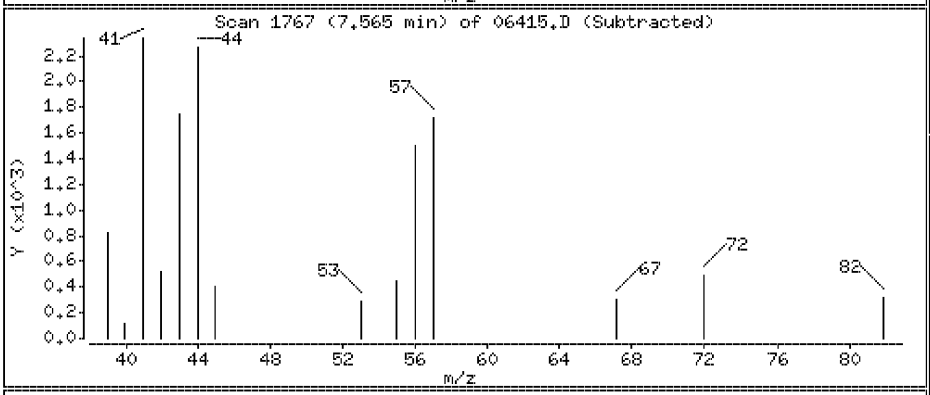
Column phase: J&W DB-5

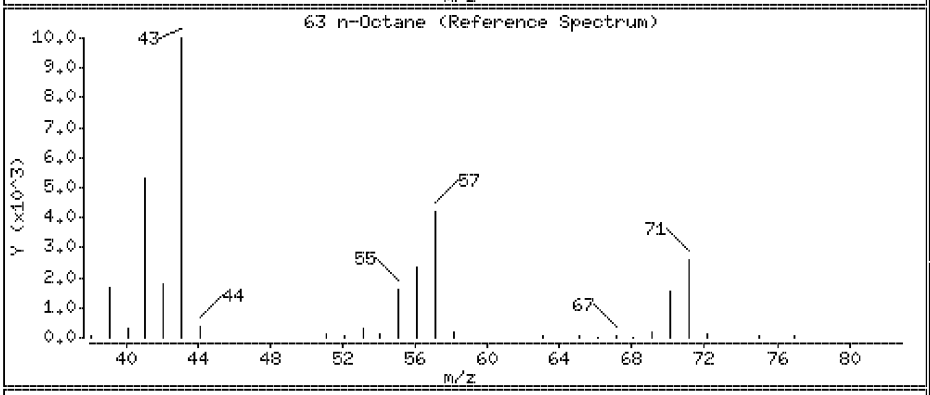
Column diameter: 0.32

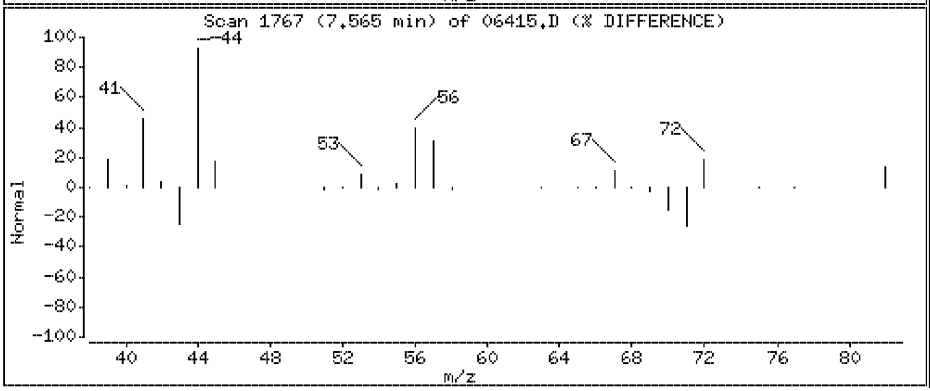
63 n-Octane

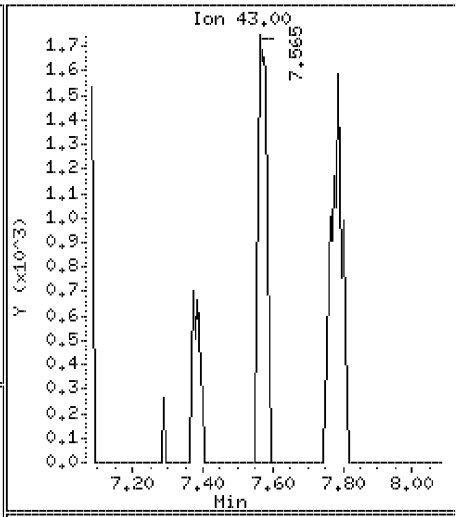
Concentration: 0.199 ppbv

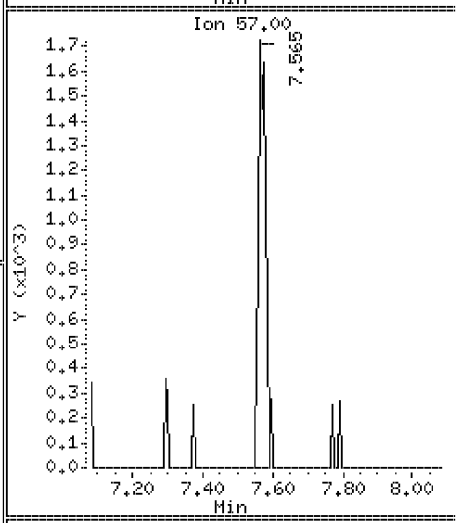


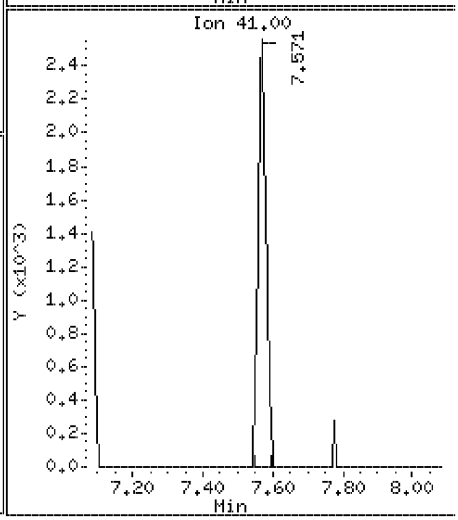












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

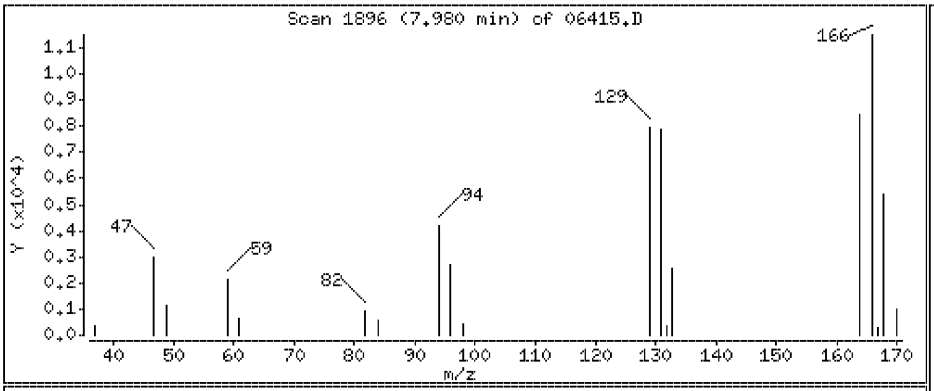
Operator: NCK

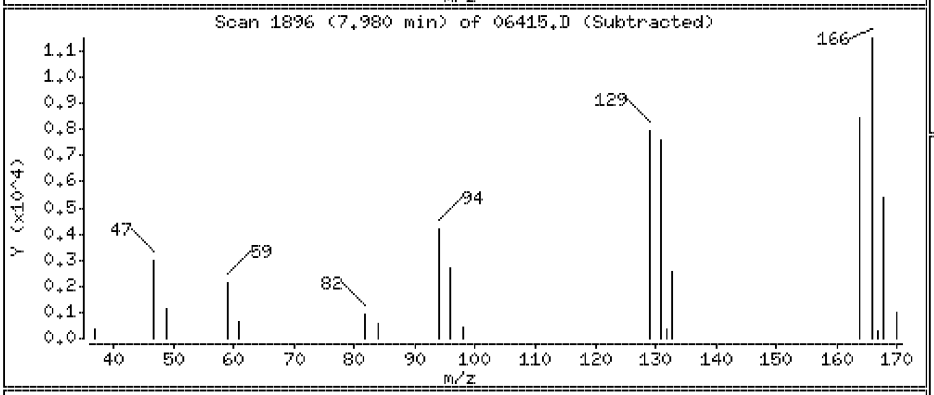
Column phase: J&W DB-5

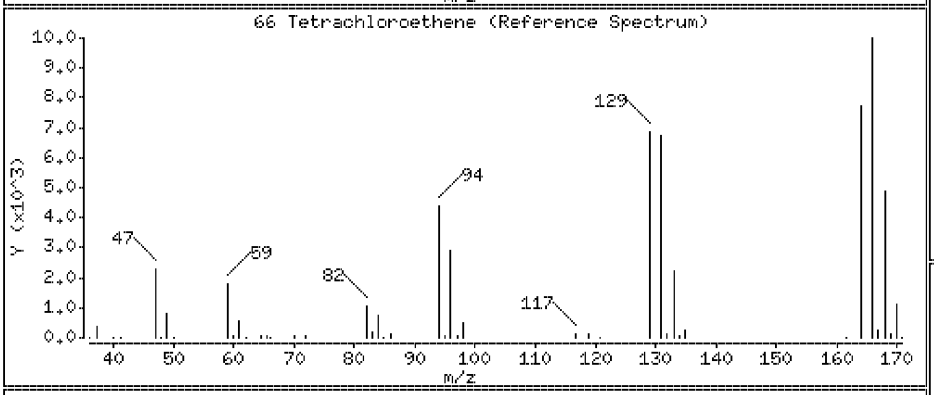
Column diameter: 0.32

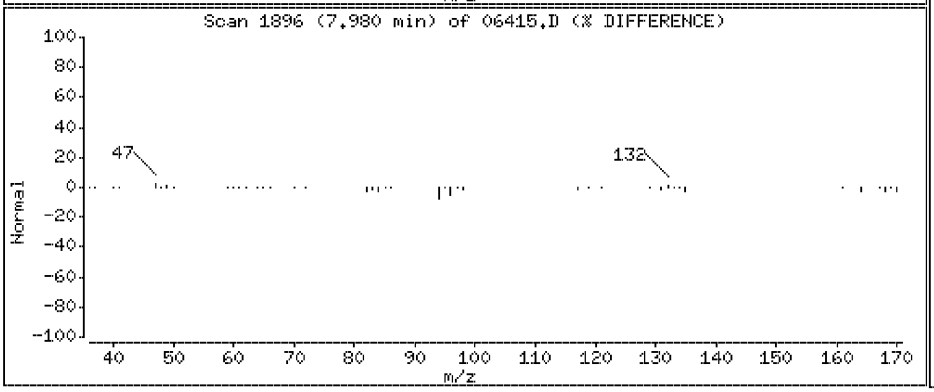
66 Tetrachloroethene

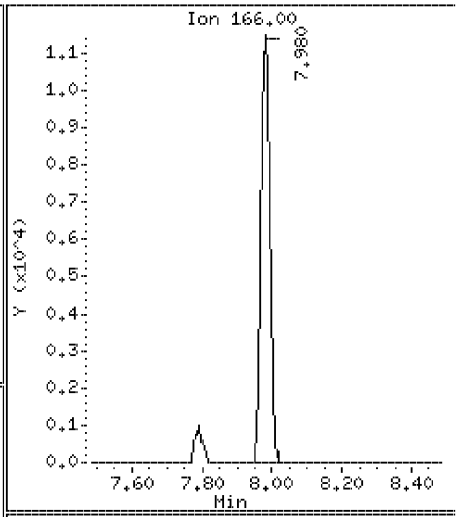
Concentration: 1.31 ppbv

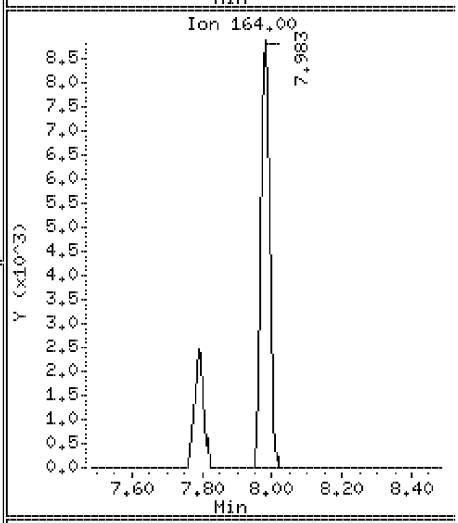


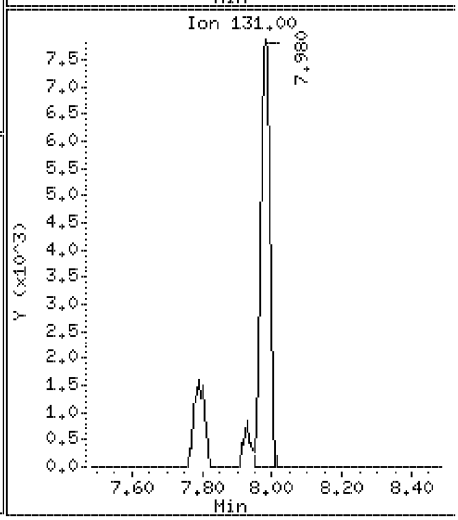












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

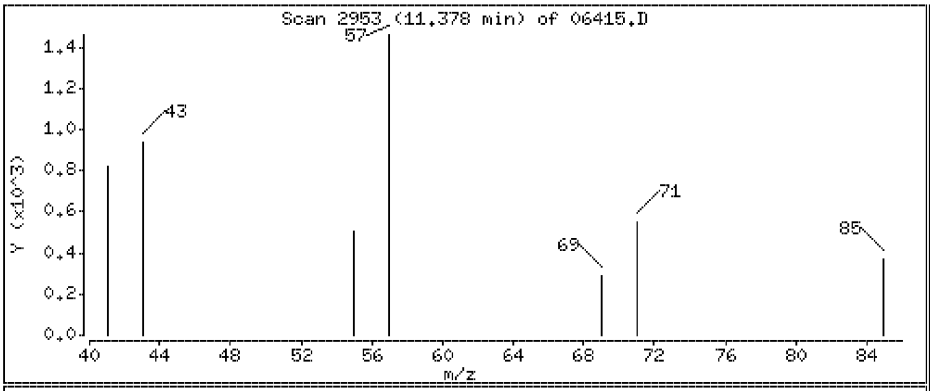
Operator: NCK

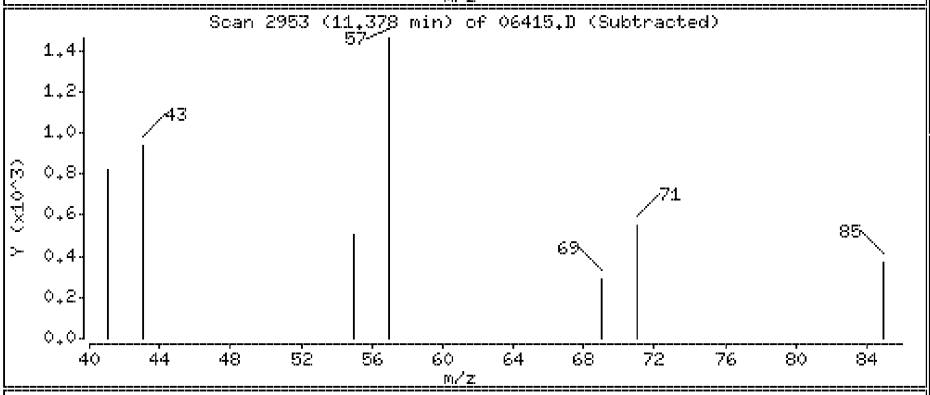
Column phase: J&W DB-5

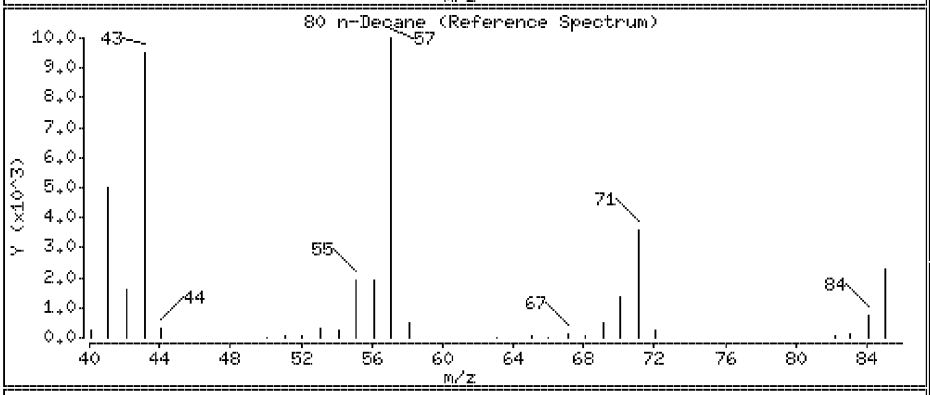
Column diameter: 0.32

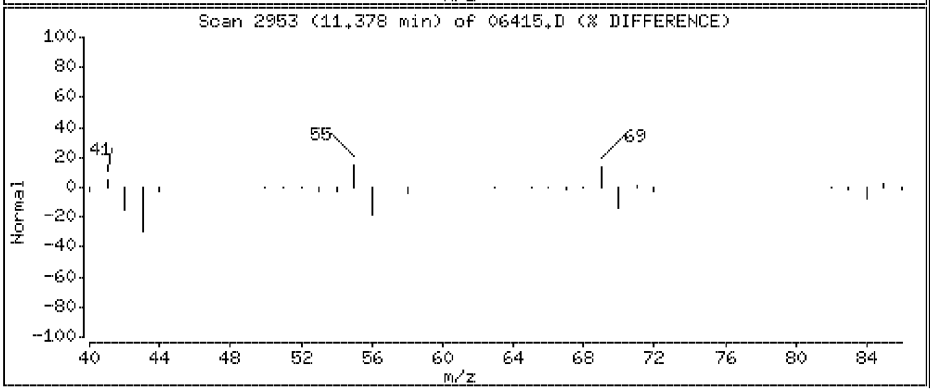
80 n-Decane

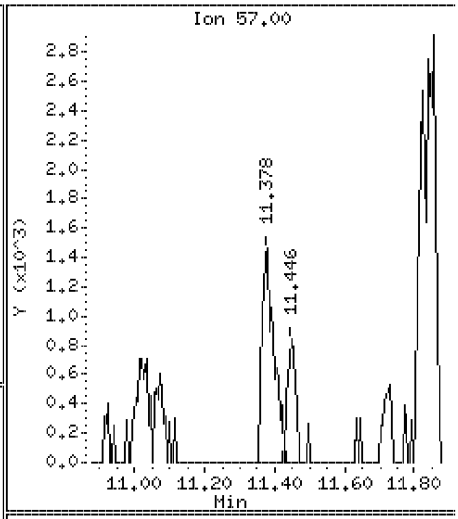
Concentration: 0.647 ppbv

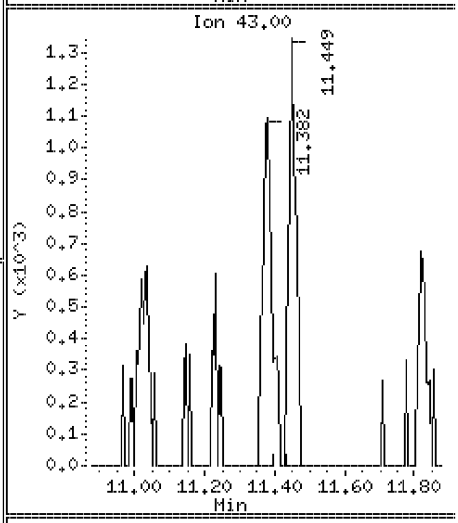


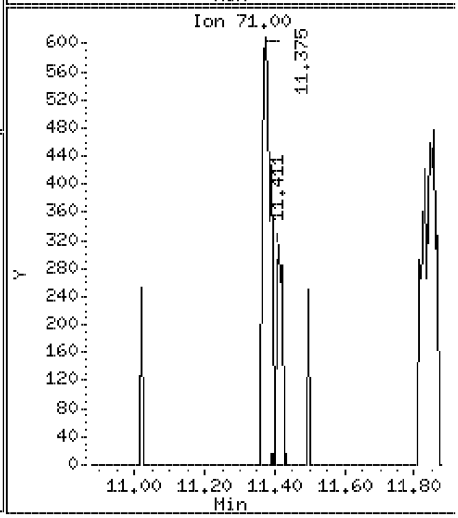












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

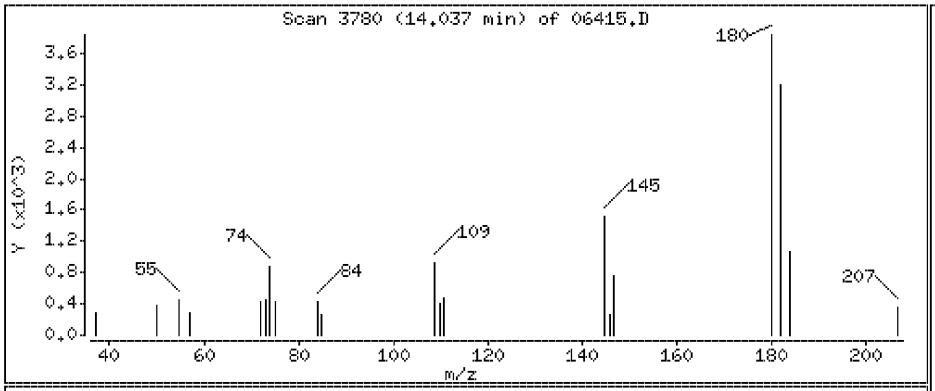
Operator: NCK

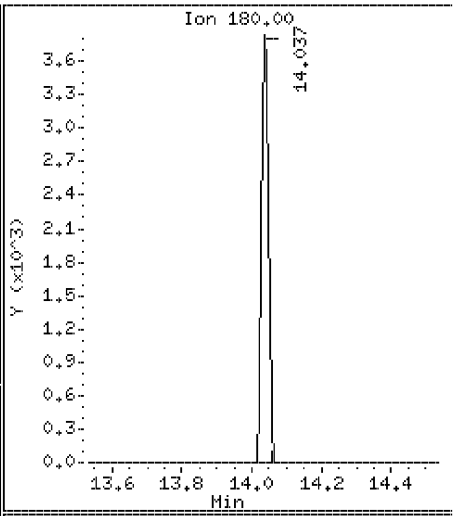
Column phase: J&W DB-5

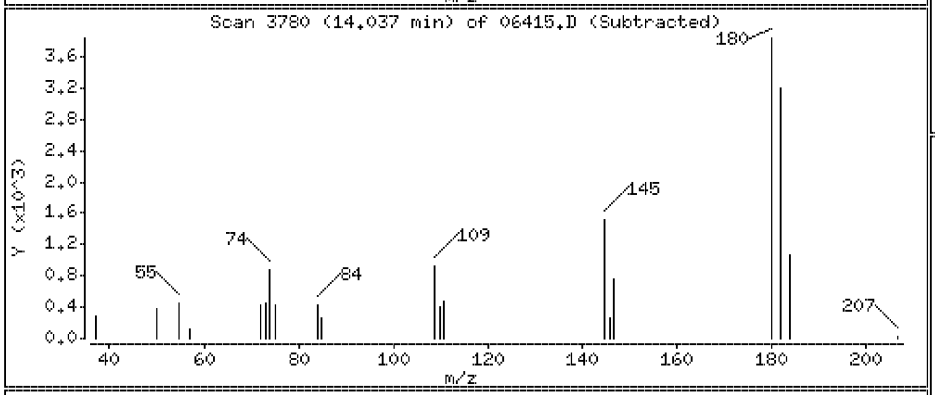
Column diameter: 0.32

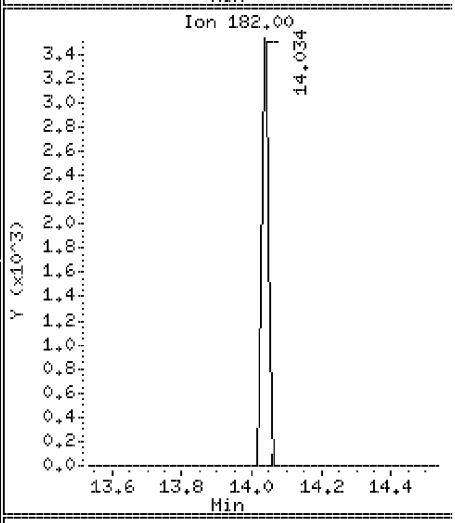
93 1,2,4-Trichlorobenzene

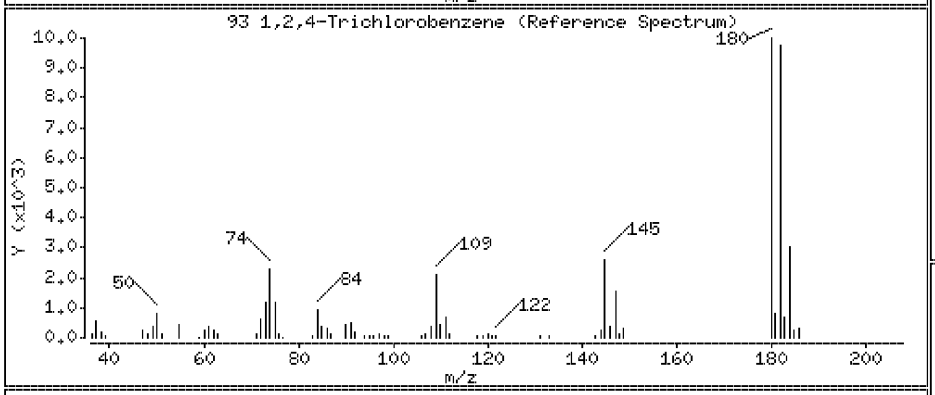
Concentration: 1.39 ppbv

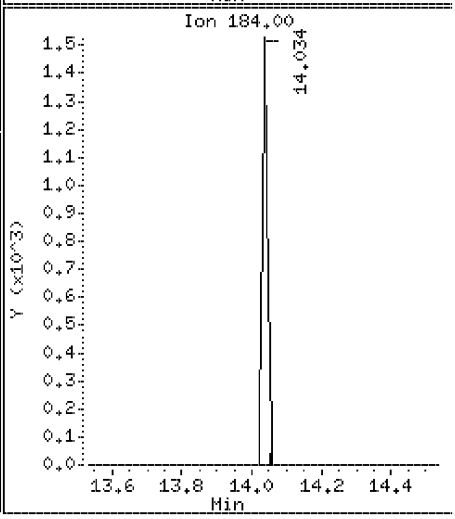


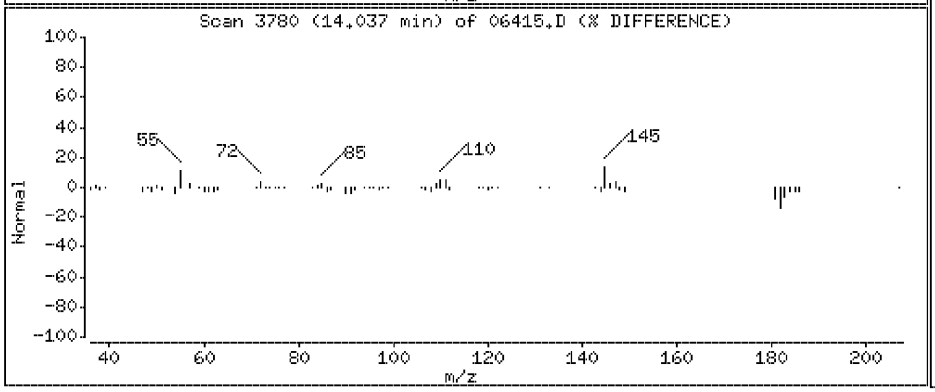












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

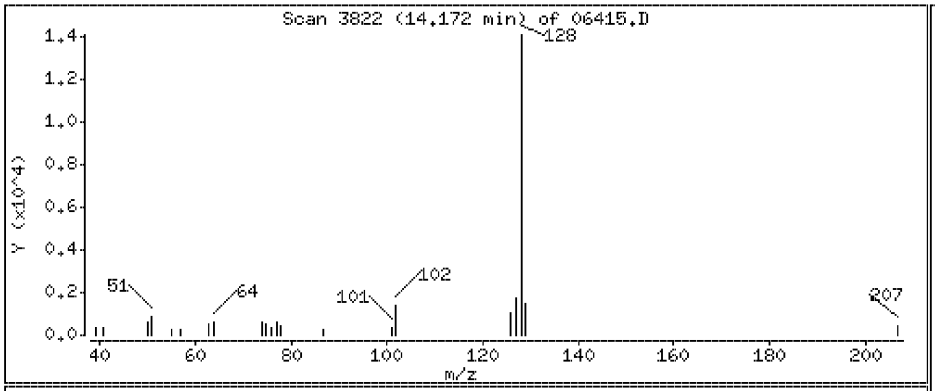
Operator: NCK

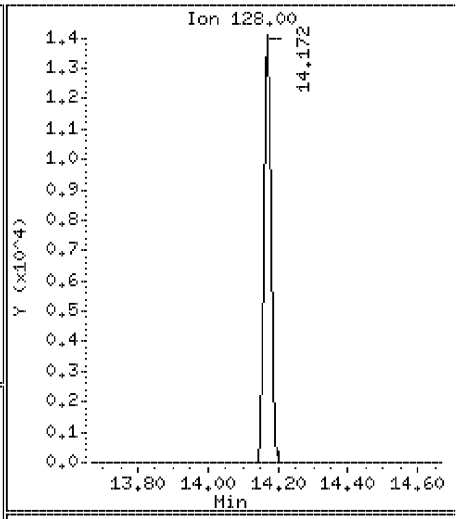
Column phase: J&W DB-5

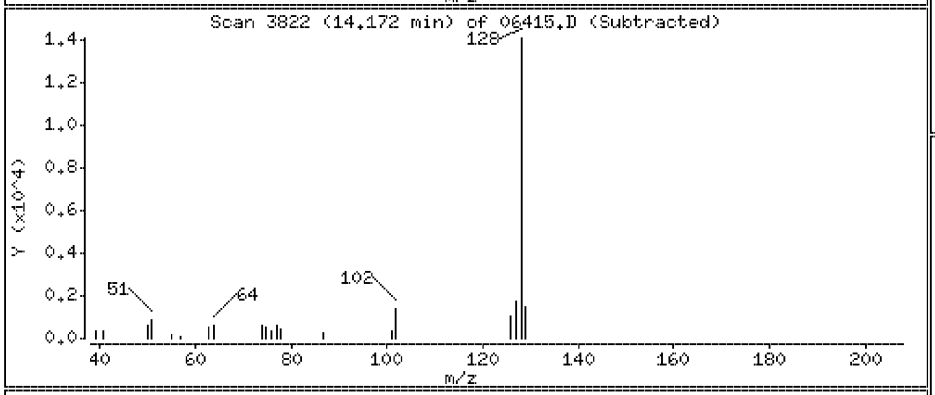
Column diameter: 0.32

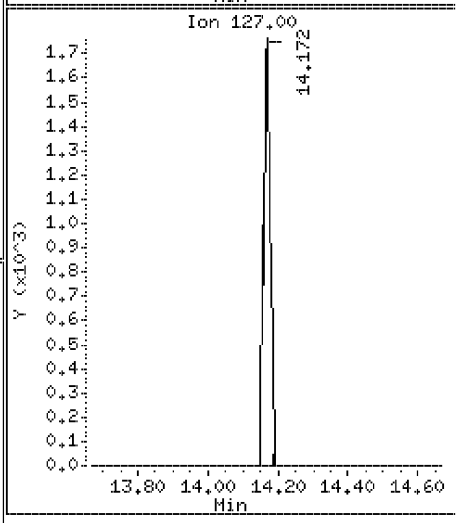
94 Naphthalene

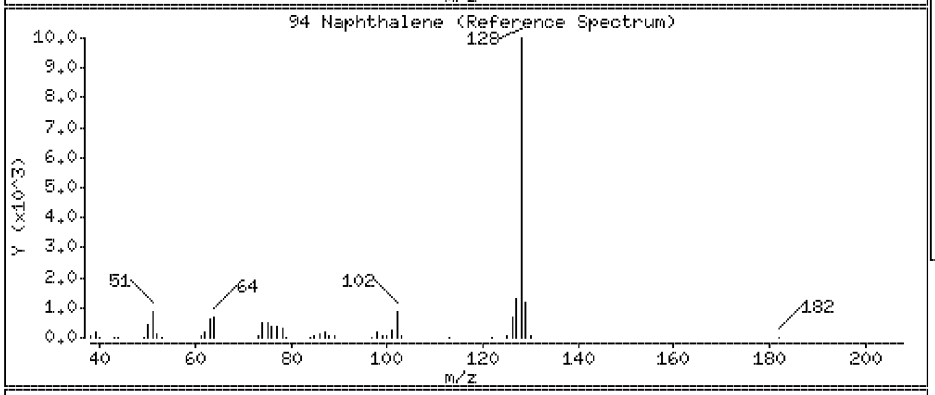
Concentration: 1.69 ppbv

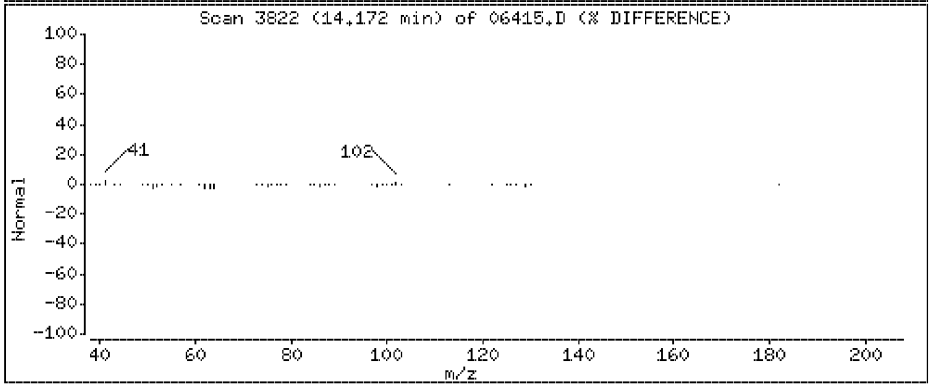












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06415.D

Date : 05-MAR-2017 16:19

Client ID:

Instrument: 10airB.i

Sample Info:

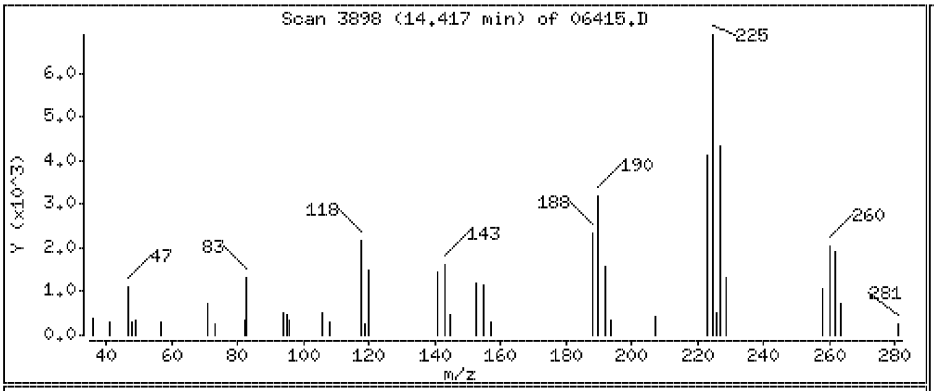
Operator: NCK

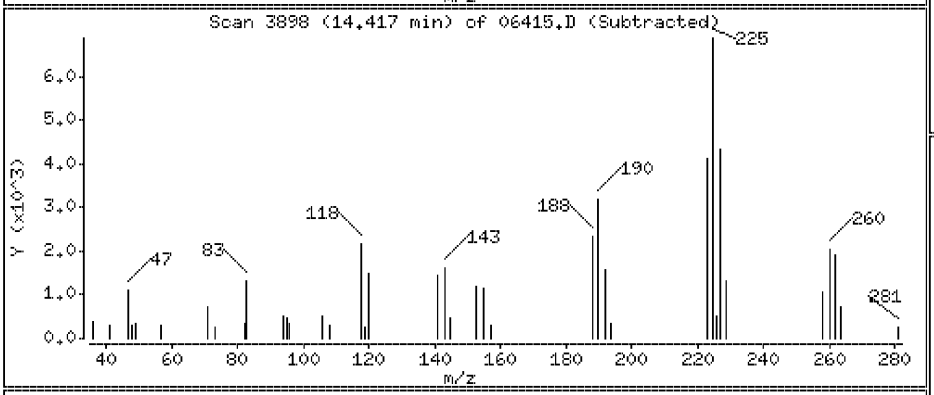
Column phase: J&W DB-5

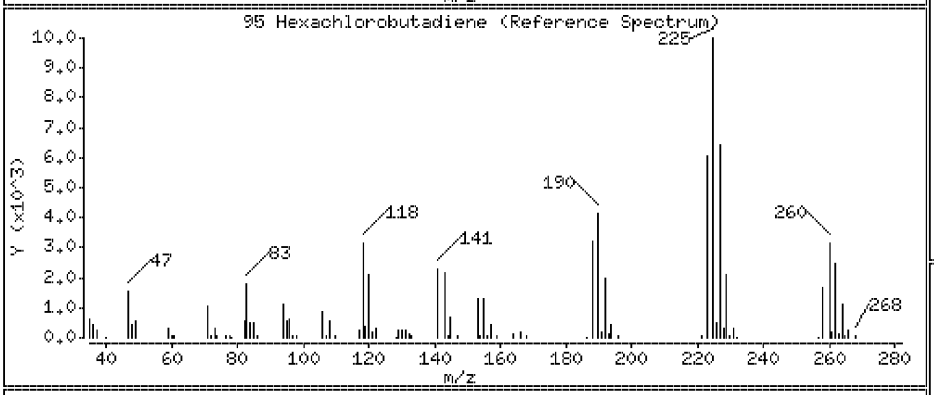
Column diameter: 0.32

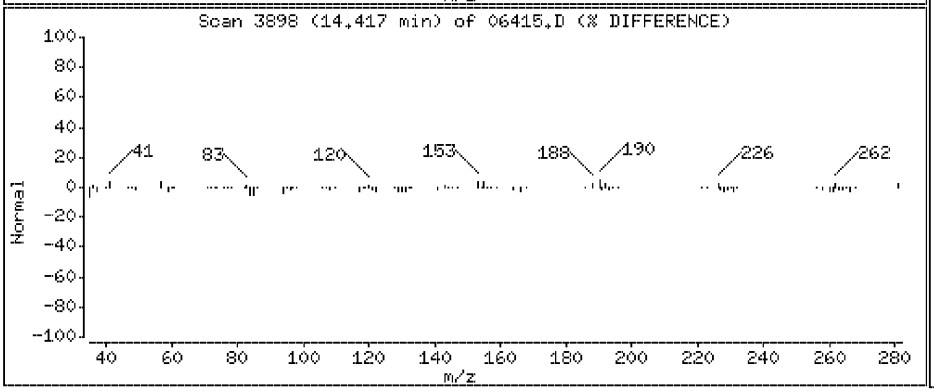
95 Hexachlorobutadiene

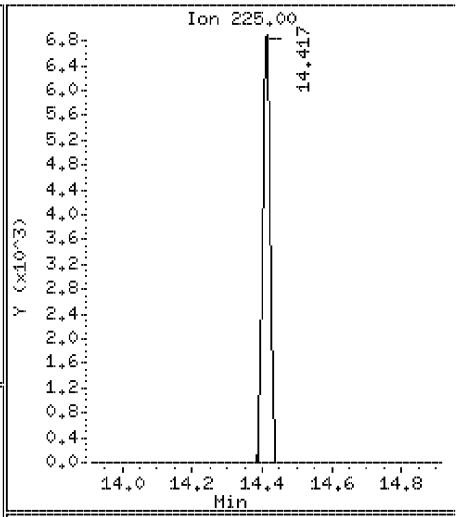
Concentration: 1.27 ppbv

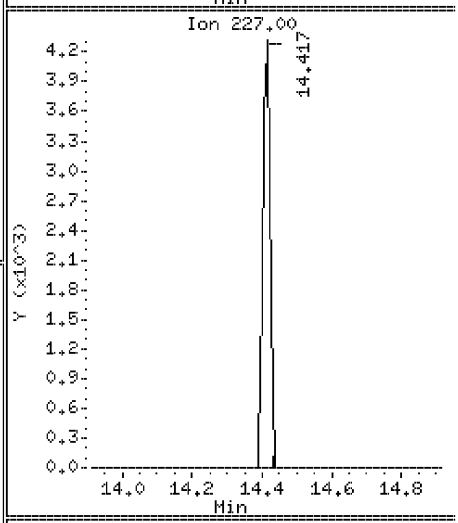


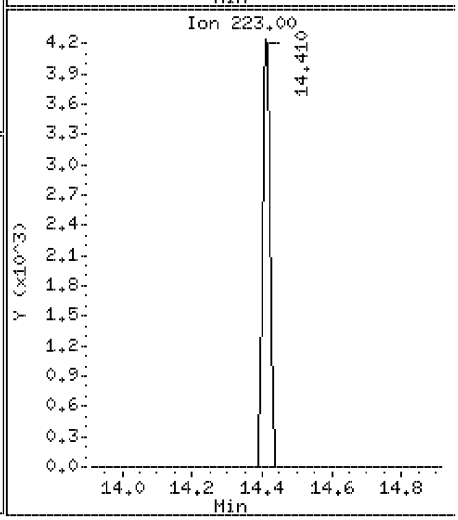






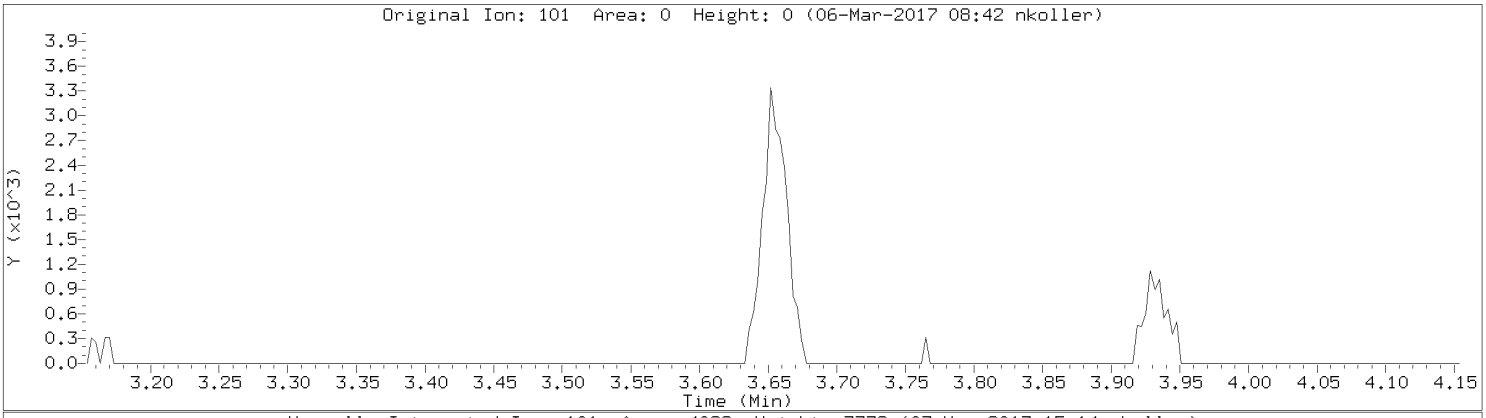


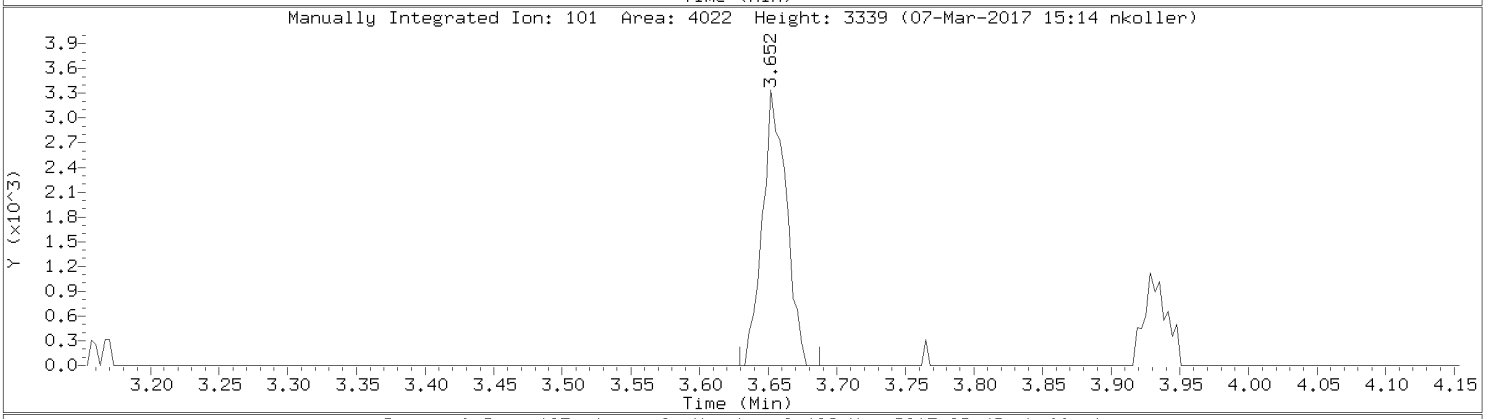


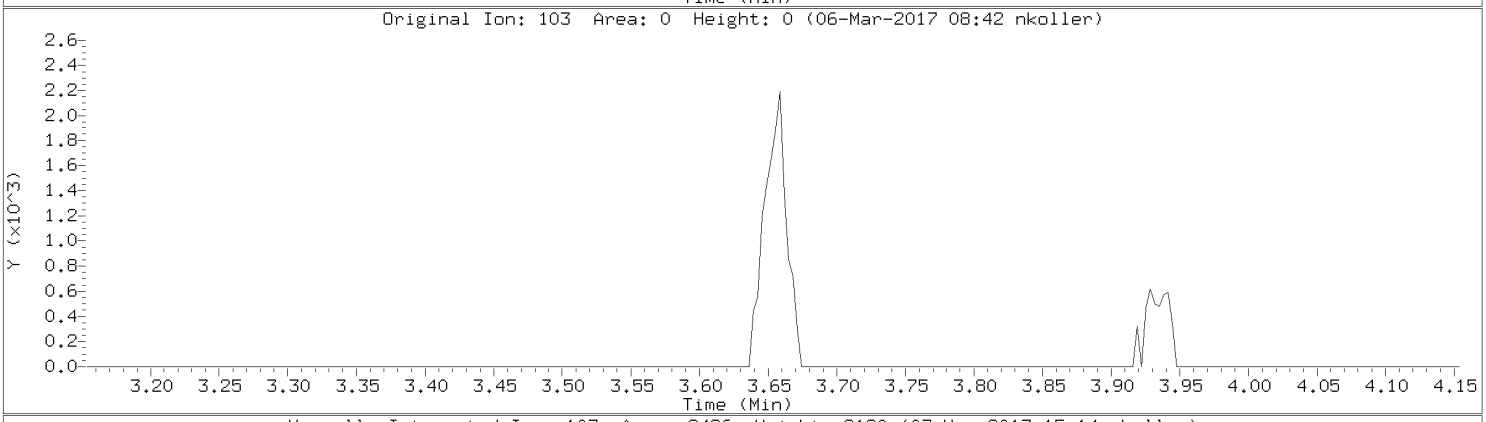


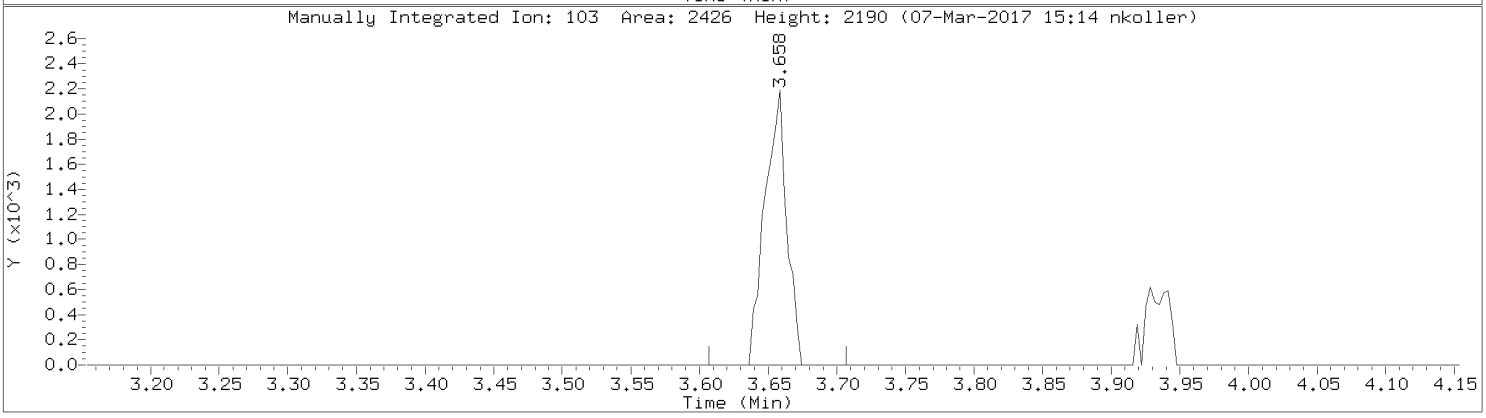
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06415.D
Injection Date: 05-MAR-2017 16:19
Instrument: 10airB.i
Lab Sample ID: 10379458015

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

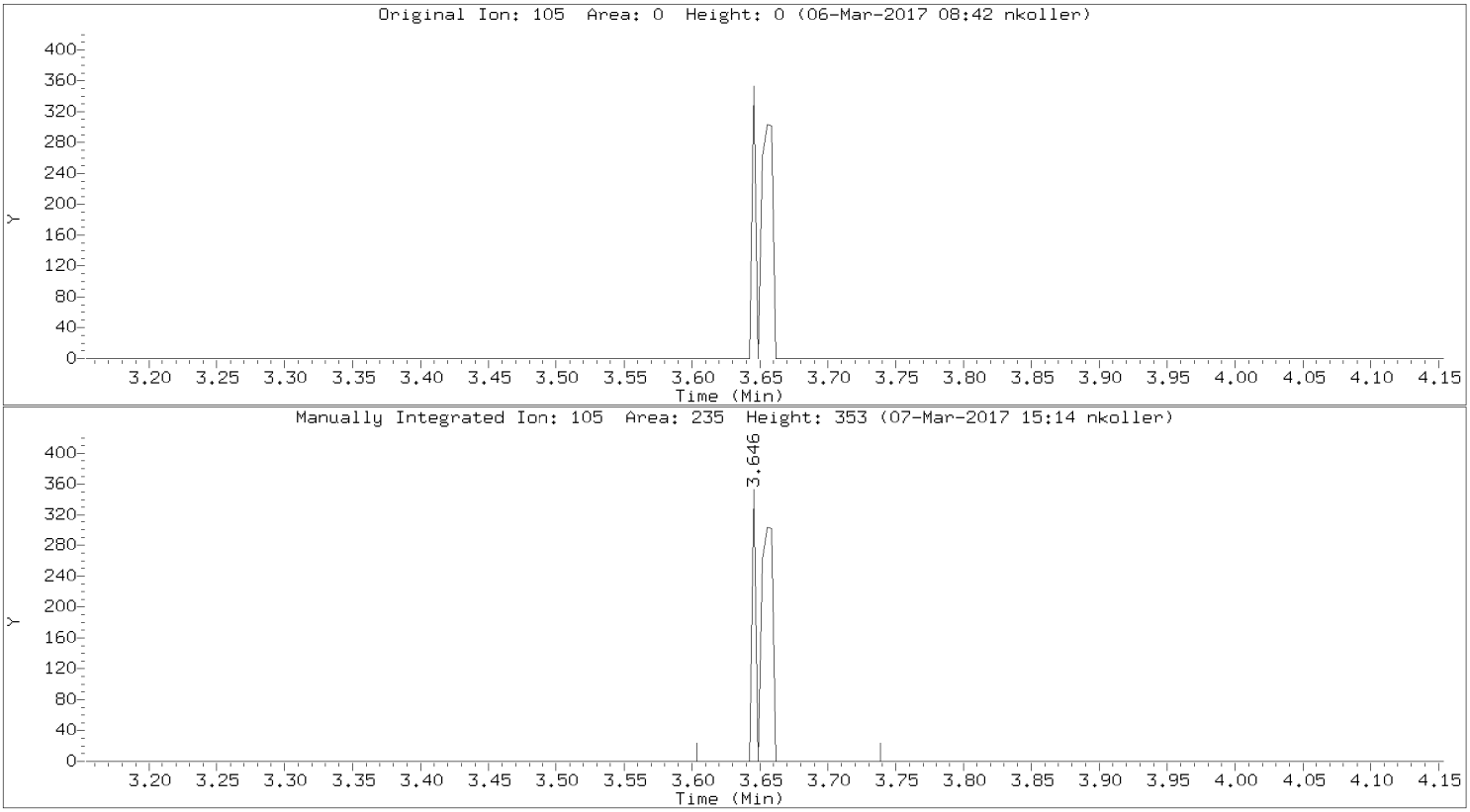






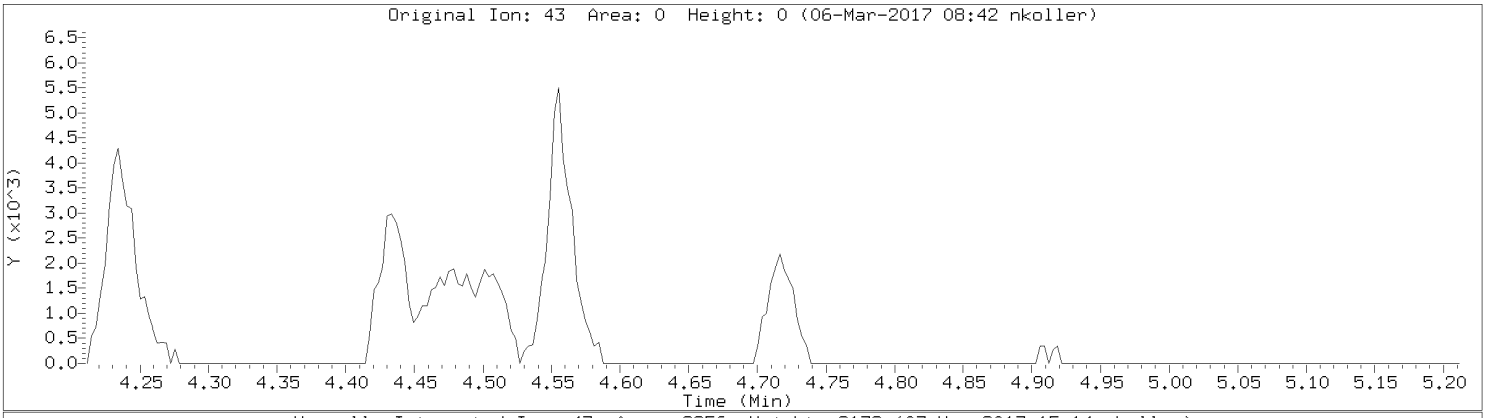


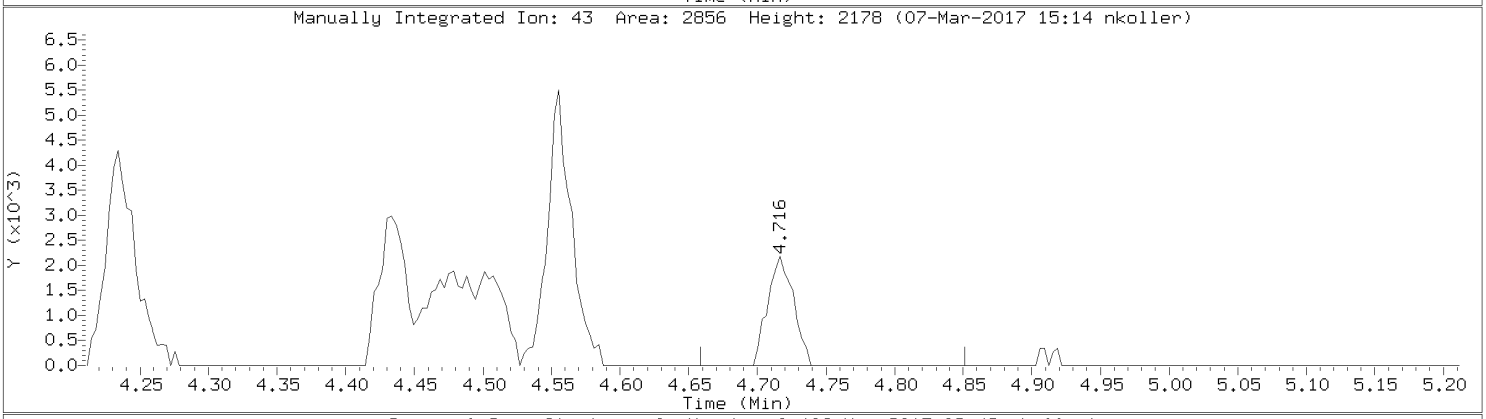
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06415.D
Injection Date: 05-MAR-2017 16:19
Instrument: 10airB.i
Lab Sample ID: 10379458015

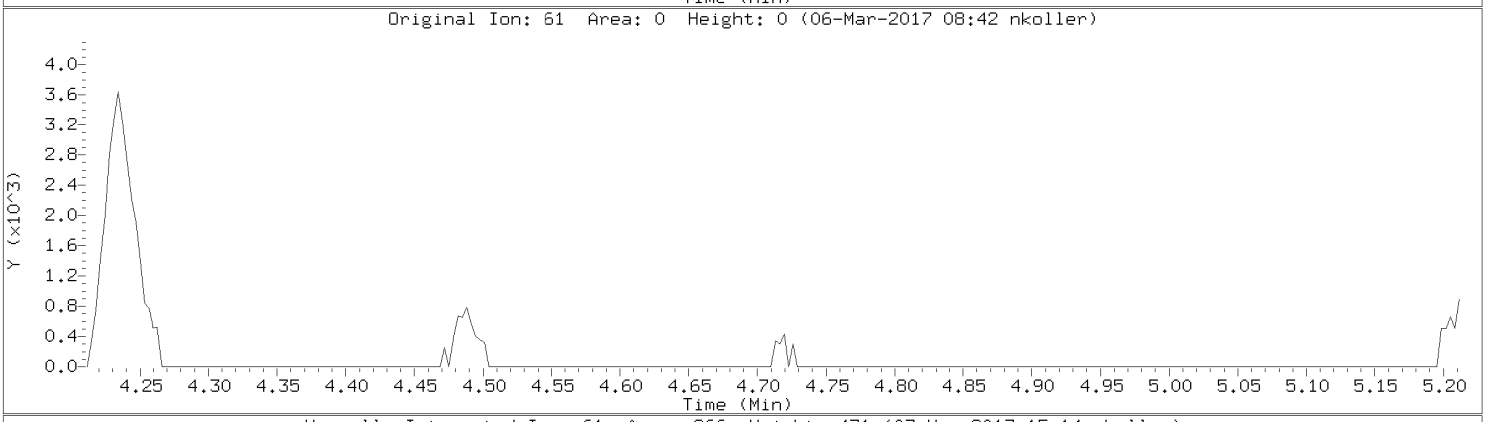


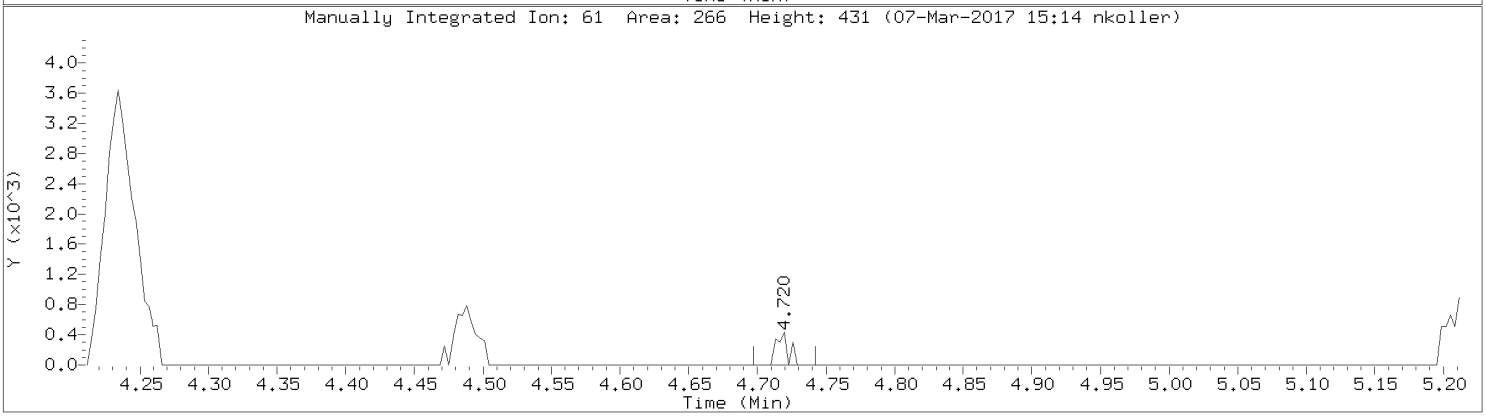
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06415.D
Injection Date: 05-MAR-2017 16:19
Instrument: 10airB.i
Lab Sample ID: 10379458015

Compound: Ethyl Acetate
CAS Number: 141-78-6

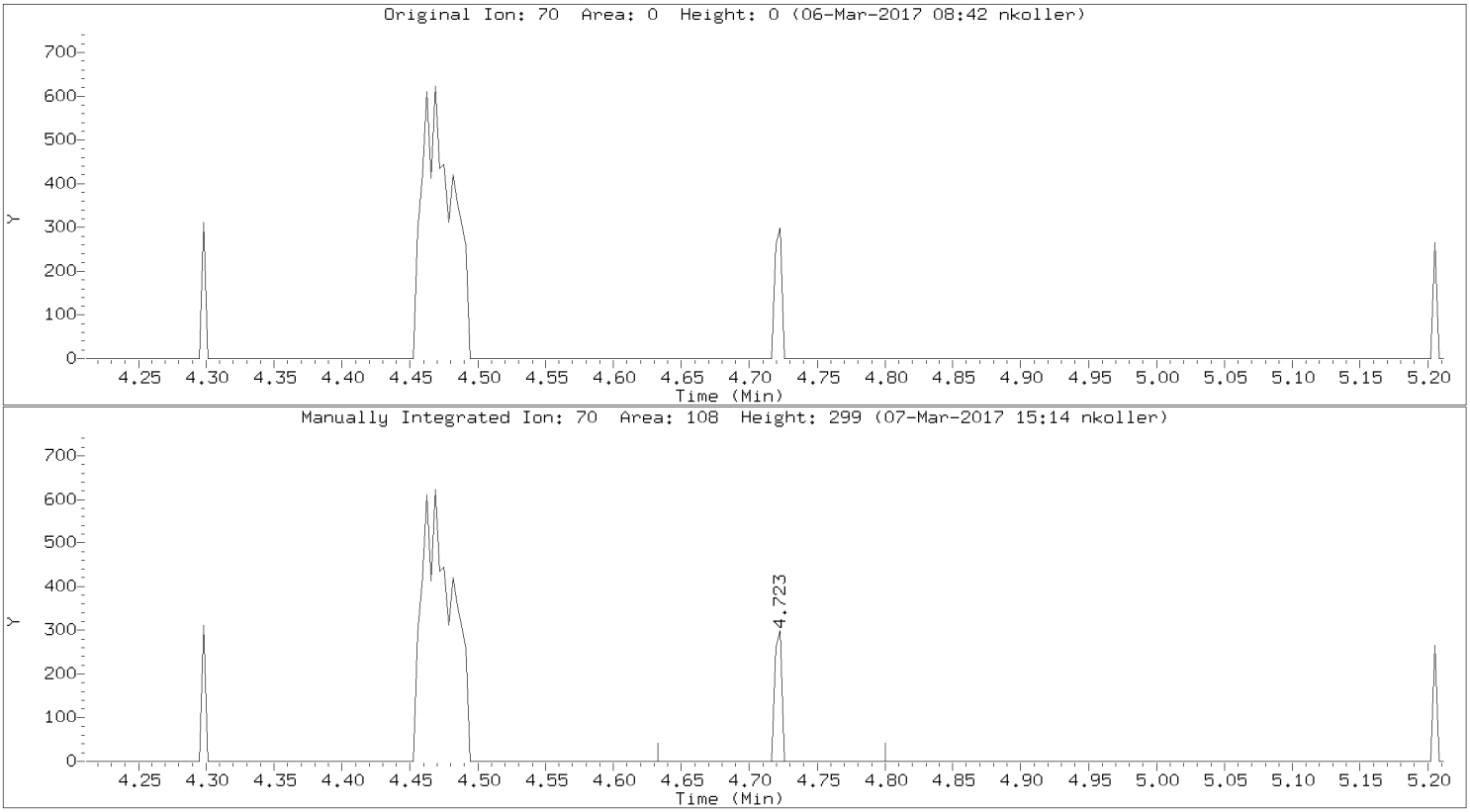








Data File: \\192.168.10.12\chem\10airB.i\030517.b/06415.D
Injection Date: 05-MAR-2017 16:19
Instrument: 10airB.i
Lab Sample ID: 10379458015



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-C1_20170215DUP **Lab ID: 10379458015** Collected: 02/15/17 16:38 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**4.7J**	ug/m3	4.8	0.46	1.92		03/05/17 16:19	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/05/17 16:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 16:19	79-34-5	
Tetrachloroethene	**9.0**	ug/m3	1.3	0.53	1.92		03/05/17 16:19	127-18-4	
Toluene	**0.83J**	ug/m3	1.5	0.30	1.92		03/05/17 16:19	108-88-3	
1,2,4-Trichlorobenzene	**10.5**	ug/m3	7.2	1.7	1.92		03/05/17 16:19	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/05/17 16:19	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/05/17 16:19	79-00-5	
Trichloroethene	**80.1**	ug/m3	1.1	0.53	1.92		03/05/17 16:19	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.2	0.25	1.92		03/05/17 16:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/05/17 16:19	76-13-1	
1,2,4-Trimethylbenzene	**<0.24**	ug/m3	1.9	0.24	1.92		03/05/17 16:19	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/05/17 16:19	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 16:19	75-01-4	
m&p-Xylene	**<1.5**	ug/m3	3.4	1.5	1.92		03/05/17 16:19	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/05/17 16:19	95-47-6	

Sample: AA_20170215 **Lab ID: 10379458016** Collected: 02/15/17 15:49 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**10.2**	ug/m3	3.9	1.3	1.61		03/05/17 17:17	67-64-1	
Allyl chloride	**<0.37**	ug/m3	2.6	0.37	1.61		03/05/17 17:17	107-05-1	
Benzene	**1.5**	ug/m3	0.52	0.20	1.61		03/05/17 17:17	71-43-2	
Bromodichloromethane	**<0.31**	ug/m3	2.2	0.31	1.61		03/05/17 17:17	75-27-4	
Bromoform	**<1.5**	ug/m3	3.4	1.5	1.61		03/05/17 17:17	75-25-2	
Bromomethane	**<0.50**	ug/m3	1.3	0.50	1.61		03/05/17 17:17	74-83-9	
1,3-Butadiene	**<0.28**	ug/m3	0.72	0.28	1.61		03/05/17 17:17	106-99-0	
2-Butanone (MEK)	**<0.37**	ug/m3	4.8	0.37	1.61		03/05/17 17:17	78-93-3	
Carbon disulfide	**<0.16**	ug/m3	1.0	0.16	1.61		03/05/17 17:17	75-15-0	
Carbon tetrachloride	**<0.31**	ug/m3	1.0	0.31	1.61		03/05/17 17:17	56-23-5	
Chlorobenzene	**<0.22**	ug/m3	1.5	0.22	1.61		03/05/17 17:17	108-90-7	
Chlorodifluoromethane	**<0.44**	ug/m3	1.2	0.44	1.61		03/05/17 17:17	75-45-6	
Chloroethane	**<0.31**	ug/m3	0.87	0.31	1.61		03/05/17 17:17	75-00-3	
Chloroform	**<0.31**	ug/m3	0.80	0.31	1.61		03/05/17 17:17	67-66-3	
Chloromethane	**<0.17**	ug/m3	0.68	0.17	1.61		03/05/17 17:17	74-87-3	
Chloropentafluoroethane	**<5.2**	ug/m3	5.2	5.2	1.61		03/05/17 17:17	76-15-3	CL
Cyclohexane	**0.62J**	ug/m3	1.1	0.51	1.61		03/05/17 17:17	110-82-7	
1,2-Dibromo-3-chloropropane	**<7.9**	ug/m3	7.9	7.9	1.61		03/05/17 17:17	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.8	1.4	1.61		03/05/17 17:17	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/m3	2.5	1.2	1.61		03/05/17 17:17	106-93-4	
1,2-Dichlorobenzene	**<0.82**	ug/m3	2.0	0.82	1.61		03/05/17 17:17	95-50-1	
1,3-Dichlorobenzene	**<0.85**	ug/m3	2.0	0.85	1.61		03/05/17 17:17	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: AA_20170215 **Lab ID: 10379458016** Collected: 02/15/17 15:49 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.80**	ug/m3	2.0	0.80	1.61		03/05/17 17:17	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.6	0.77	1.61		03/05/17 17:17	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/m3	1.3	0.25	1.61		03/05/17 17:17	75-34-3	
1,2-Dichloroethane	**<0.33**	ug/m3	0.66	0.33	1.61		03/05/17 17:17	107-06-2	
1,1-Dichloroethene	**<0.38**	ug/m3	1.3	0.38	1.61		03/05/17 17:17	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.3	0.40	1.61		03/05/17 17:17	156-59-2	
trans-1,2-Dichloroethene	**<0.62**	ug/m3	1.3	0.62	1.61		03/05/17 17:17	156-60-5	
1,2-Dichloropropane	**<0.43**	ug/m3	1.5	0.43	1.61		03/05/17 17:17	78-87-5	
cis-1,3-Dichloropropene	**<0.59**	ug/m3	1.5	0.59	1.61		03/05/17 17:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.42**	ug/m3	1.5	0.42	1.61		03/05/17 17:17	10061-02-6	
Dichlorotetrafluoroethane	**<0.50**	ug/m3	2.3	0.50	1.61		03/05/17 17:17	76-14-2	
Freon 123	**<5.1**	ug/m3	5.1	5.1	1.61		03/05/17 17:17	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.57**	ug/m3	5.9	0.57	1.61		03/05/17 17:17	123-91-1	
Ethylbenzene	**<0.68**	ug/m3	1.4	0.68	1.61		03/05/17 17:17	100-41-4	
4-Ethyltoluene	**1.0J**	ug/m3	1.6	0.30	1.61		03/05/17 17:17	622-96-8	
Hexachloro-1,3-butadiene	**<1.0**	ug/m3	3.5	1.0	1.61		03/05/17 17:17	87-68-3	
n-Hexane	**1.5**	ug/m3	1.2	0.57	1.61		03/05/17 17:17	110-54-3	
2-Hexanone	**<0.66**	ug/m3	6.7	0.66	1.61		03/05/17 17:17	591-78-6	
Isopropylbenzene (Cumene)	**<0.22**	ug/m3	4.0	0.22	1.61		03/05/17 17:17	98-82-8	
Methyl acetate	**<2.5**	ug/m3	2.5	2.5	1.61		03/05/17 17:17	79-20-9	
Methylcyclohexane	**<0.39**	ug/m3	1.3	0.39	1.61		03/05/17 17:17	108-87-2	
Methylene Chloride	**4.6J**	ug/m3	5.7	0.87	1.61		03/05/17 17:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.35**	ug/m3	6.7	0.35	1.61		03/05/17 17:17	108-10-1	
Methyl-tert-butyl ether	**<0.49**	ug/m3	5.9	0.49	1.61		03/05/17 17:17	1634-04-4	
2-Propanol	**2.5J**	ug/m3	4.0	0.39	1.61		03/05/17 17:17	67-63-0	
Styrene	**<0.31**	ug/m3	1.4	0.31	1.61		03/05/17 17:17	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.53**	ug/m3	1.1	0.53	1.61		03/05/17 17:17	79-34-5	
Tetrachloroethene	**1.2**	ug/m3	1.1	0.45	1.61		03/05/17 17:17	127-18-4	
Toluene	**2.8**	ug/m3	1.2	0.25	1.61		03/05/17 17:17	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.1	1.5	1.61		03/05/17 17:17	120-82-1	
1,1,1-Trichloroethane	**<0.40**	ug/m3	1.8	0.40	1.61		03/05/17 17:17	71-55-6	
1,1,2-Trichloroethane	**<0.40**	ug/m3	0.89	0.40	1.61		03/05/17 17:17	79-00-5	
Trichloroethene	**<0.44**	ug/m3	0.89	0.44	1.61		03/05/17 17:17	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	1.8	0.21	1.61		03/05/17 17:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.48**	ug/m3	2.6	0.48	1.61		03/05/17 17:17	76-13-1	
1,2,4-Trimethylbenzene	**<0.20**	ug/m3	1.6	0.20	1.61		03/05/17 17:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.29**	ug/m3	1.6	0.29	1.61		03/05/17 17:17	108-67-8	
Vinyl chloride	**<0.31**	ug/m3	0.42	0.31	1.61		03/05/17 17:17	75-01-4	
m&p-Xylene	**1.8J**	ug/m3	2.8	1.3	1.61		03/05/17 17:17	179601-23-1	
o-Xylene	**<0.57**	ug/m3	1.4	0.57	1.61		03/05/17 17:17	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D
Report Date: 06-Mar-2017 10:48

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06417.D
Lab Smp Id: 10379458016
Inj Date : 05-MAR-2017 17:17
Operator : NCK Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 05-Mar-2017 09:58 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 17
Dil Factor: 1.61000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.610	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						(D)
3	Chlorodifluoromethane	67	Compound Not Detected.						(D)
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	3.079	3.021	(0.550)	12468	0.27648	0.445	(H)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						(D)
9	1,3-Butadiene	54	Compound Not Detected.						(D)
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	3.549	3.542	(0.634)	17012	3.72411	6.00	
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	3.597	3.578	(0.642)	11099	0.76096	1.23	
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	3.668	3.655	(0.655)	4687	0.13751	0.221	
17	Acrolein	56	Compound Not Detected.						(D)
18	Acetone	43	3.725	3.713	(0.665)	51549	2.61330	4.21	
19	Isopropyl Alcohol	45	3.777	3.764	(0.674)	12521	0.62240	1.00	
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						(D)
23	Methyl Acetate	43	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D
Report Date: 06-Mar-2017 10:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						(D)
	25 Methylene chloride	49	3.992	3.992	(0.713)	11195	0.80410	1.29	
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						(D)
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	4.433	4.385	(0.792)	4251	0.31053	0.500(M)	
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.487	4.481	(0.801)	362762	9.17143	9.17	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						(D)
	34 n-Hexane	57	4.584	4.578	(0.819)	5047	0.25458	0.410(Q)	
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	4.722	4.713	(0.843)	3119	0.12224	0.197(QM)	
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						(D)
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						(D)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	5.459	5.465	(0.975)	11614	0.28966	0.466	
	44 Carbon tetrachloride	117	Compound Not Detected.						(D)
	45 Cyclohexane	56	5.481	5.484	(0.979)	2197	0.10946	0.176(Q)	
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.610	(1.000)	1243220	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						(D)
	49 Heptane	43	5.883	5.889	(1.051)	2427	0.10833	0.174	
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						(D)
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						(D)
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						(D)
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1056068	9.49090	9.49	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	7.150	7.153	(1.277)	22599	0.45007	0.725	
	62 Methyl Butyl Ketone	43	Compound Not Detected.						(D)
	63 n-Octane	43	7.571	7.584	(0.876)	4508	0.16322	0.263(Q)	
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	7.983	7.986	(0.924)	3043	0.10853	0.175	
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	807453	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						(D)
	70 m&p-Xylene	91	9.076	9.082	(1.051)	11768	0.25246	0.406	
	71 n-Nonane	43	Compound Not Detected.						(D)
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						(D)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						(D)
	77 N-Propylbenzene	91	Compound Not Detected.						(D)

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D
Report Date: 06-Mar-2017 10:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
78	4-Ethyltoluene	105	10.912	10.912	(1.263)	1767	0.12492	0.201(M)	
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.						(D)
80	n-Decane	57	11.378	11.378	(2.032)	1818	0.29289	0.472(Q)	
81	Tert-Butyl Benzene	119	Compound Not Detected.						(D)
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.						(D)
83	1,3-Dichlorobenzene	146	Compound Not Detected.						
84	Sec- Butylbenzene	105	Compound Not Detected.						
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	447264	10.0554	10.1	
86	Benzyl Chloride	91	Compound Not Detected.						
87	1,4-Dichlorobenzene	146	Compound Not Detected.						(D)
88	p-Isopropyltoluene	119	Compound Not Detected.						
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.						(D)
90	1,2-Dichlorobenzene	146	Compound Not Detected.						
91	N-Butylbenzene	91	Compound Not Detected.						(D)
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.						
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
94	Naphthalene	128	14.172	14.169	(1.641)	1483	0.38464	0.619(M)	
95	Hexachlorobutadiene	225	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D
Report Date: 06-Mar-2017 10:48

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06417.D
Lab Smp Id: 10379458016
Analysis Type: VOA
Quant Type: ISTD
Operator: NCK
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

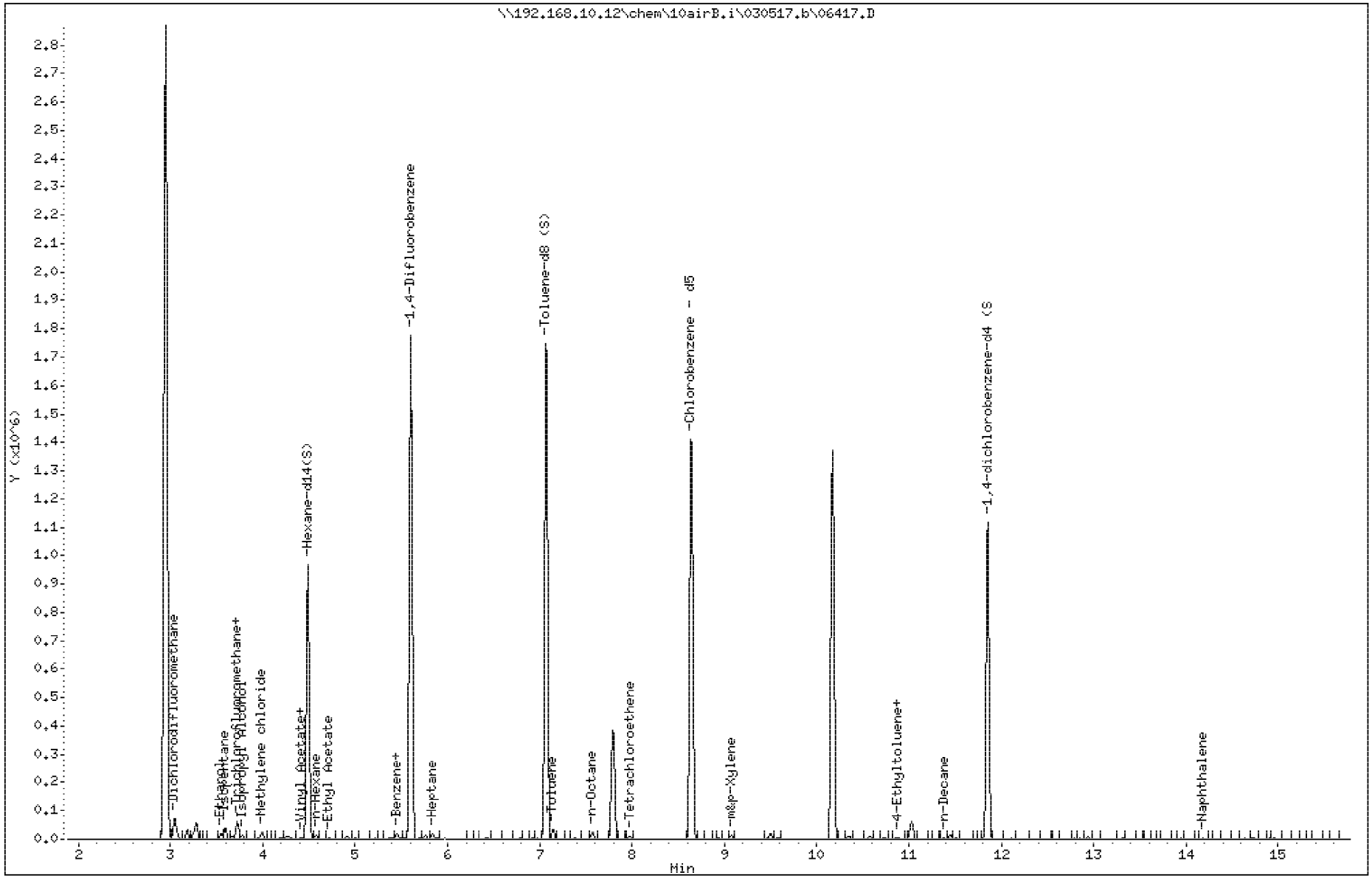
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1243220	-12.08
67 Chlorobenzene - d	951026	570616	1331436	807453	-15.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D
Date : 05-MAR-2017 17:17
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: NCK
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

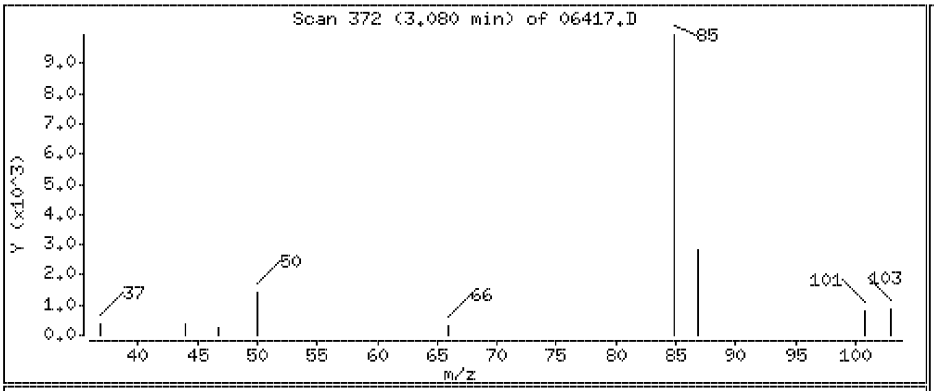
Operator: NCK

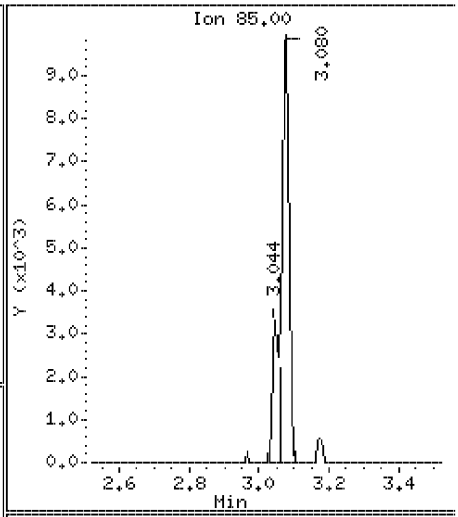
Column phase: J&W DB-5

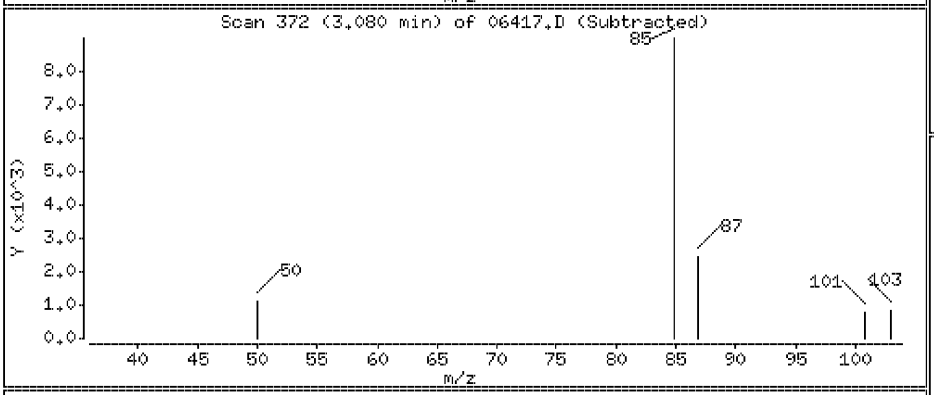
Column diameter: 0.32

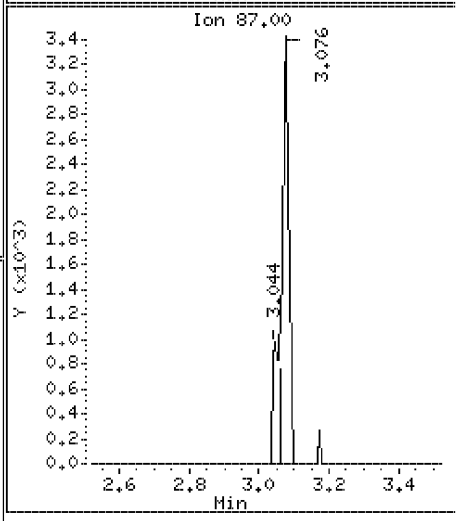
5 Dichlorodifluoromethane

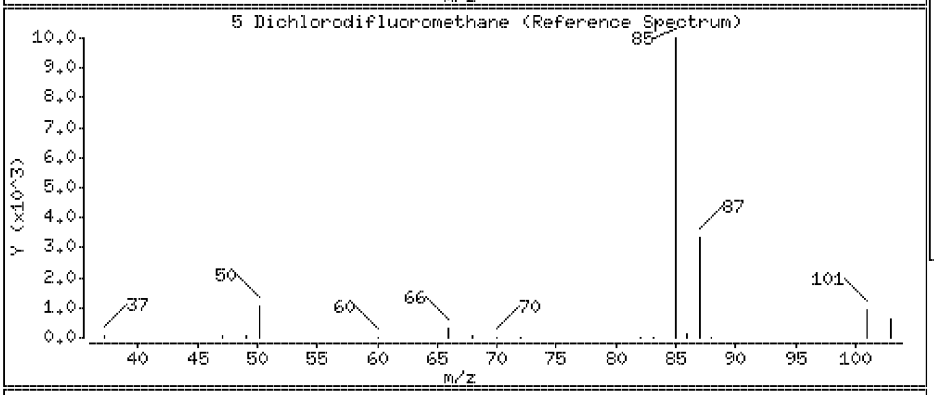
Concentration: 0.445 ppbv

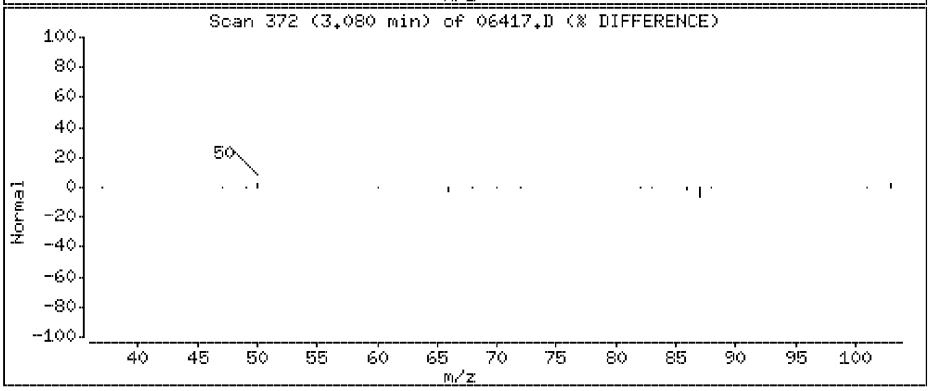












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

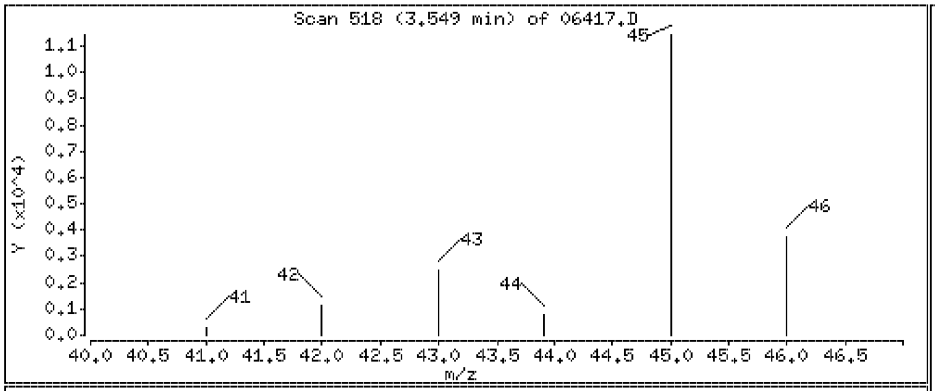
Operator: NCK

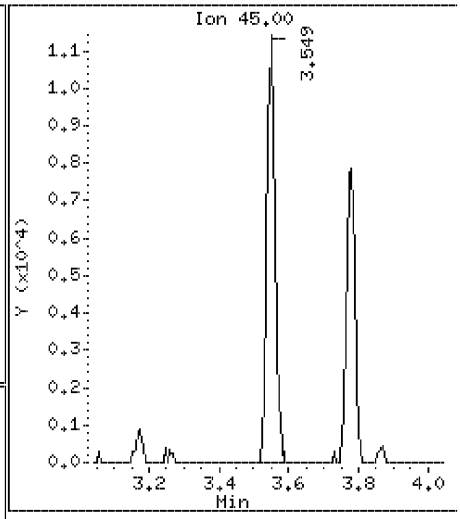
Column phase: J&W DB-5

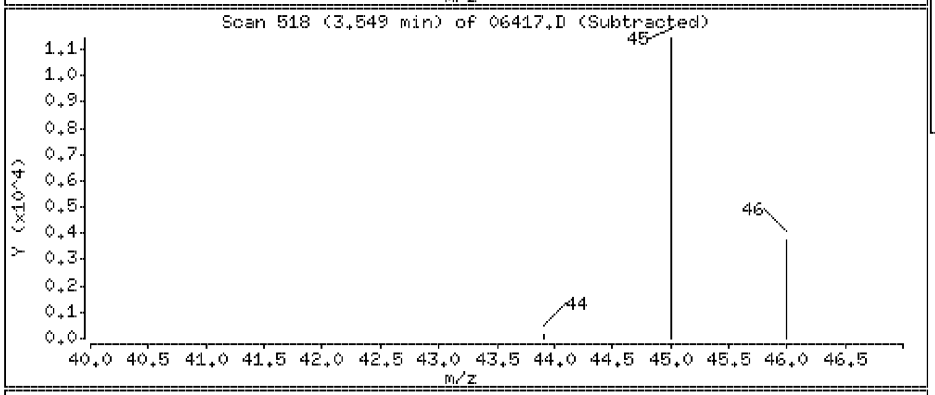
Column diameter: 0.32

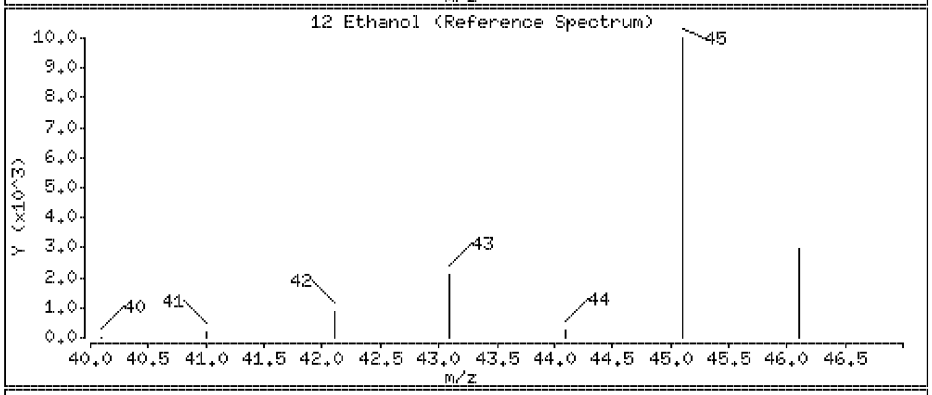
12 Ethanol

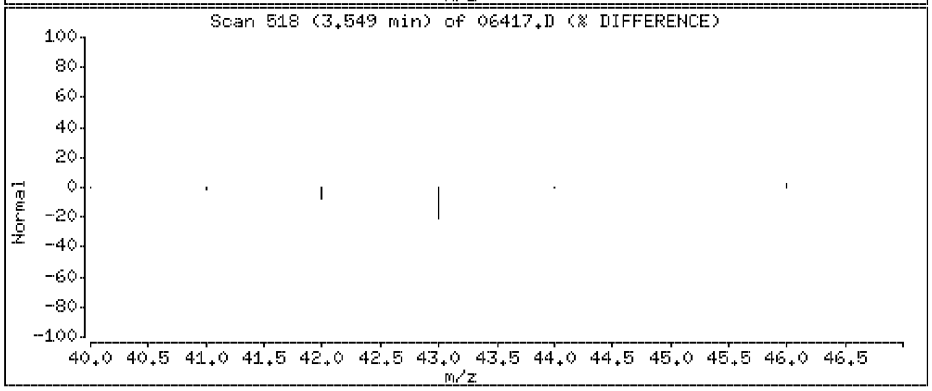
Concentration: 6.00 ppbv











Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

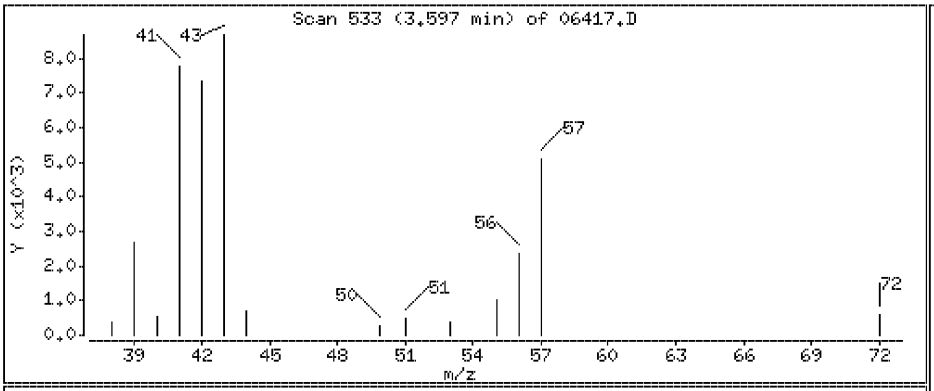
Operator: NCK

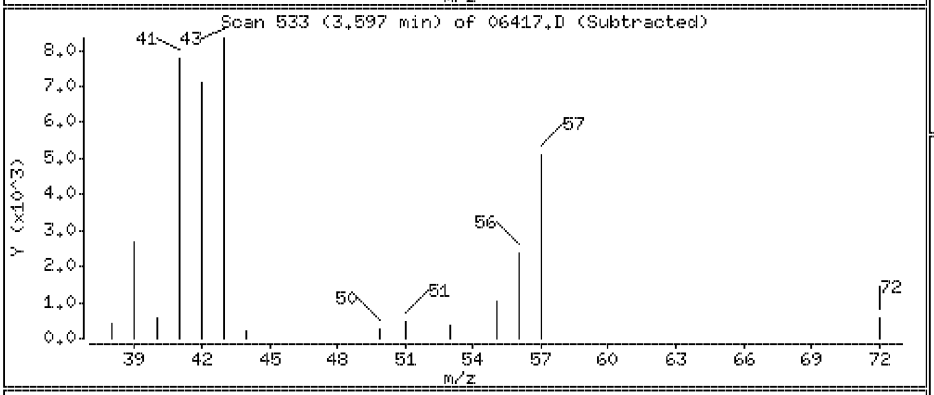
Column phase: J&W DB-5

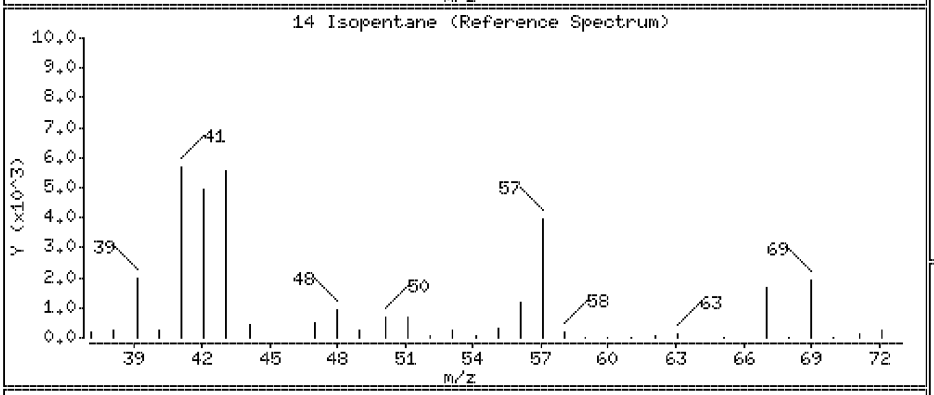
Column diameter: 0.32

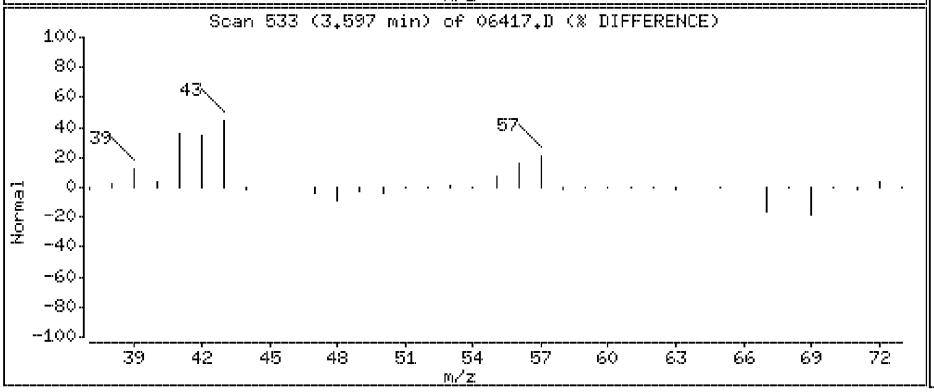
14 Isopentane

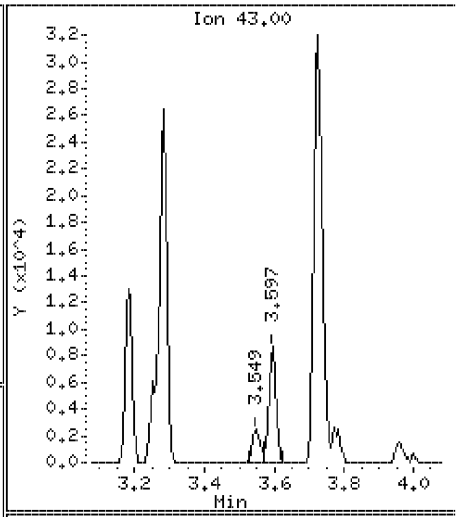
Concentration: 1.23 ppbv

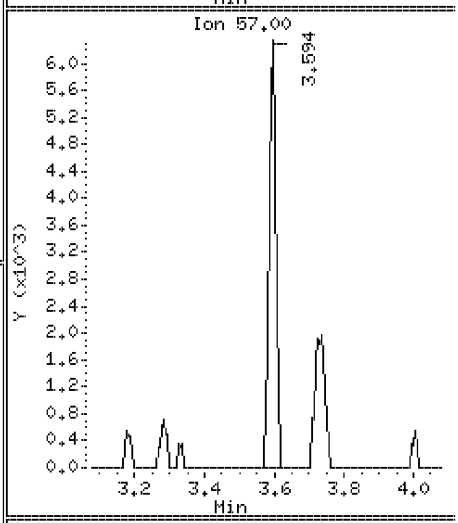


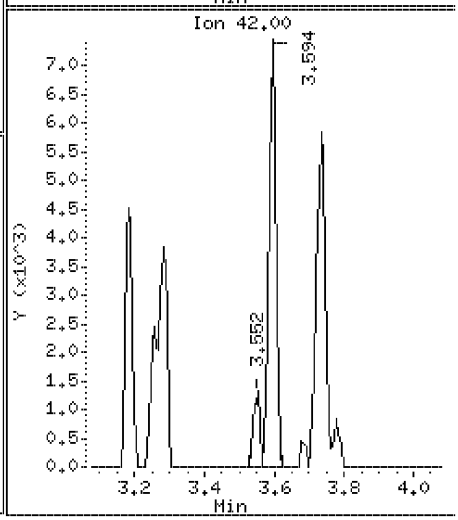












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

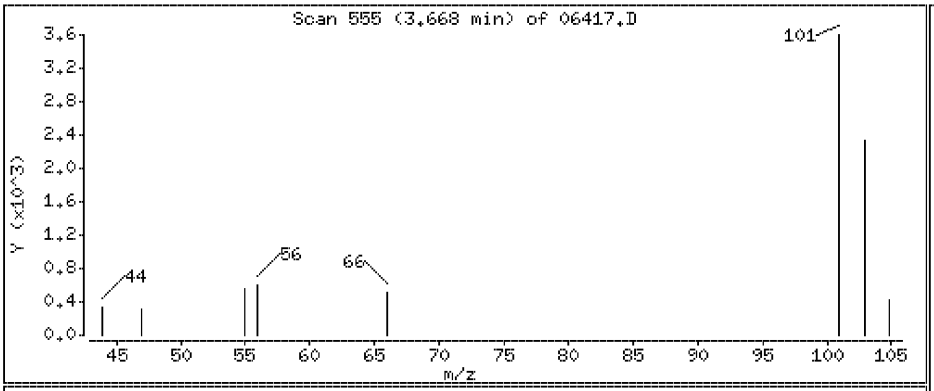
Operator: NCK

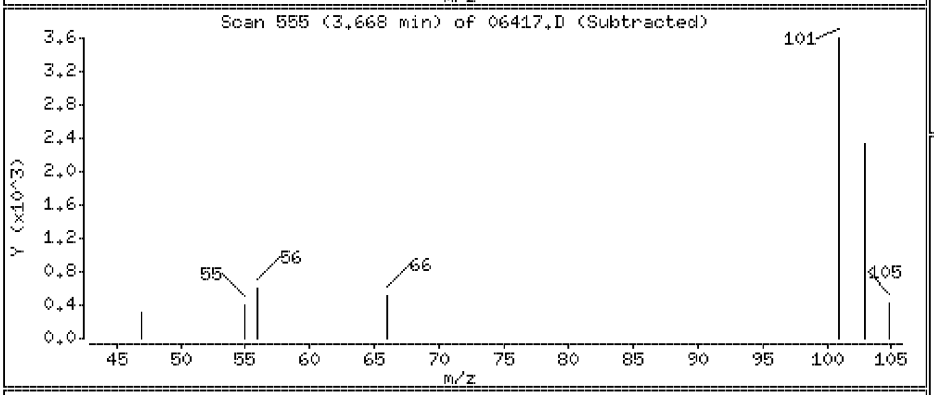
Column phase: J&W DB-5

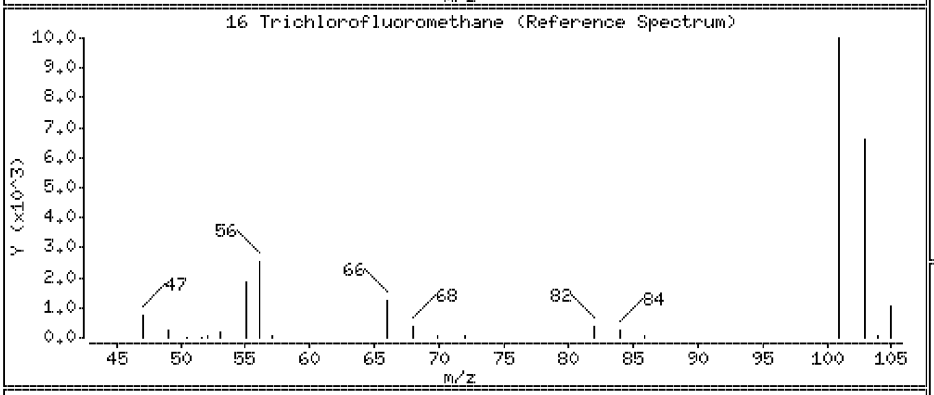
Column diameter: 0.32

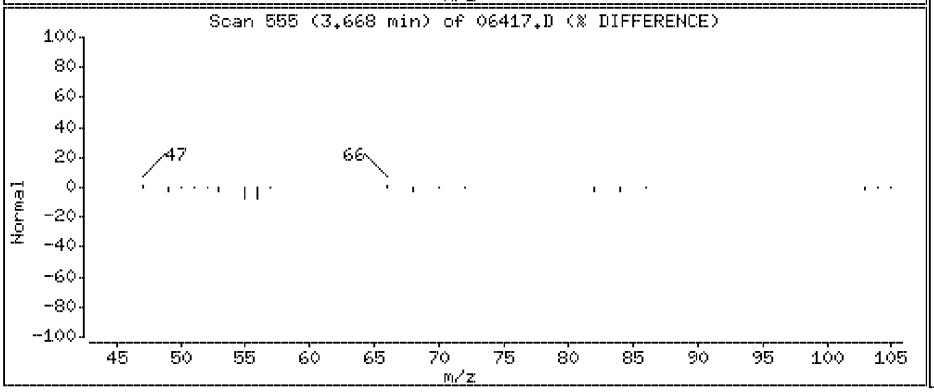
16 Trichlorofluoromethane

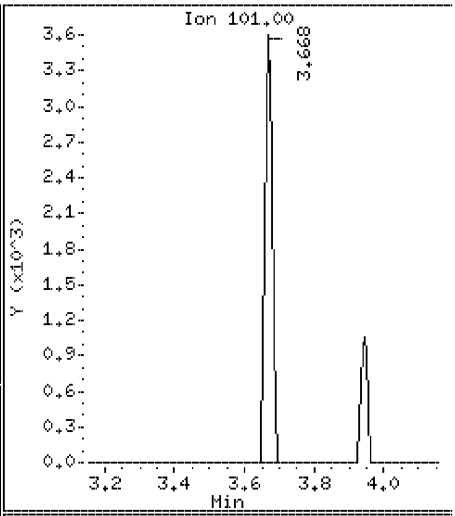
Concentration: 0.221 ppbv

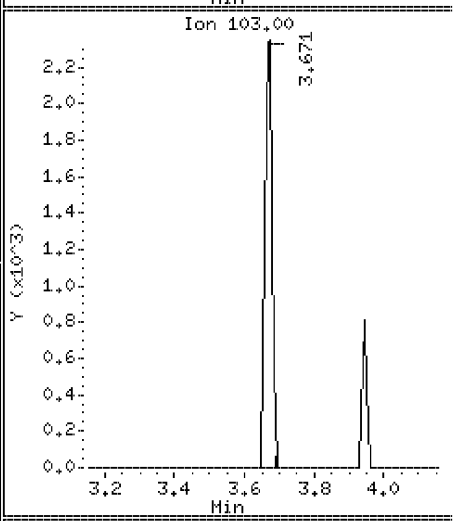


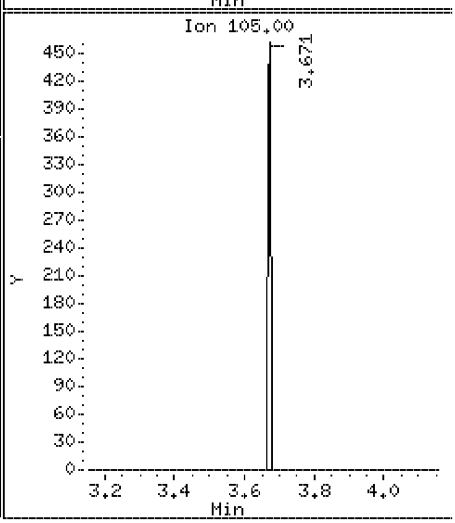












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

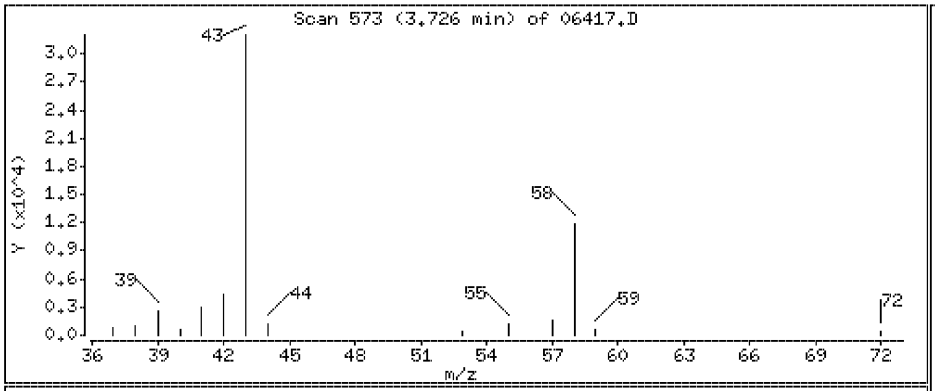
Operator: NCK

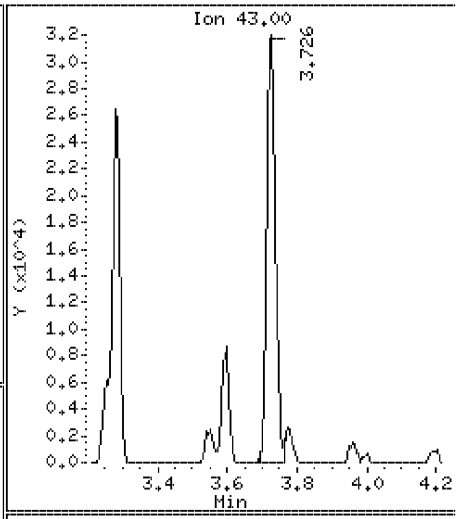
Column phase: J&W DB-5

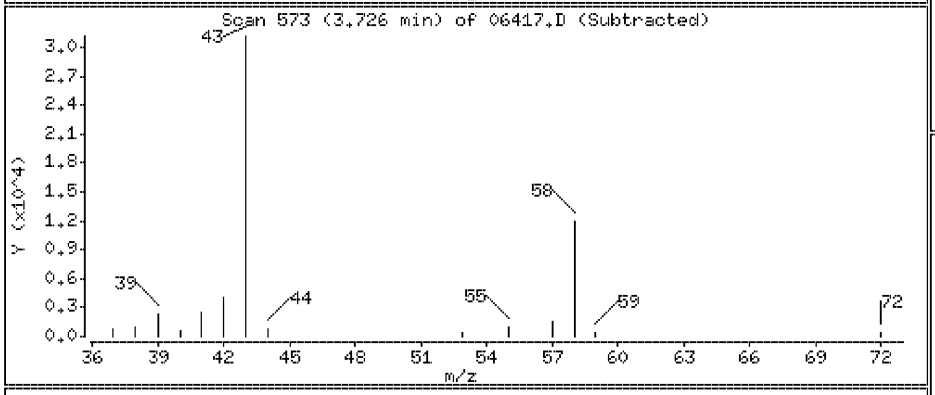
Column diameter: 0.32

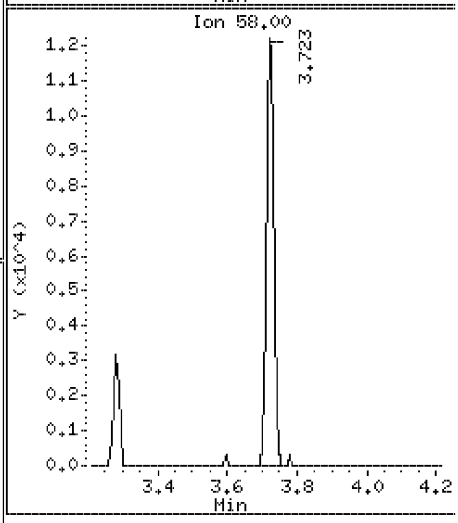
18 Acetone

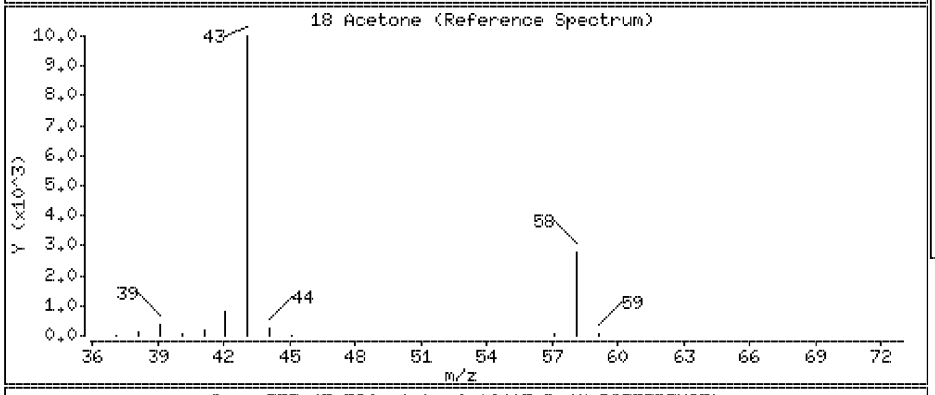
Concentration: 4.21 ppbv

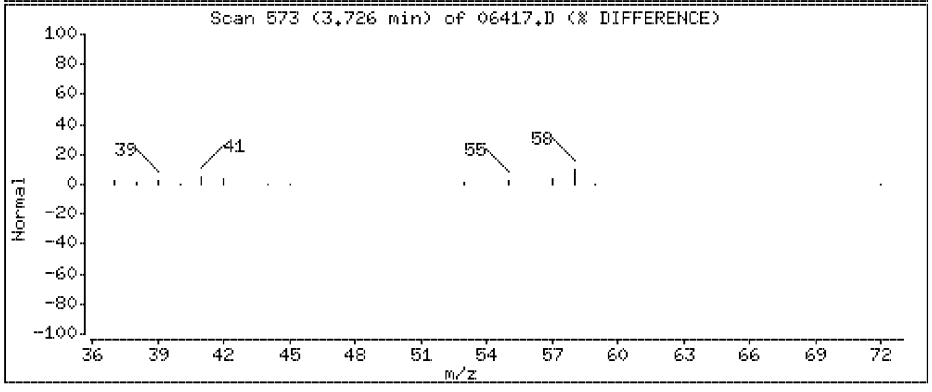












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

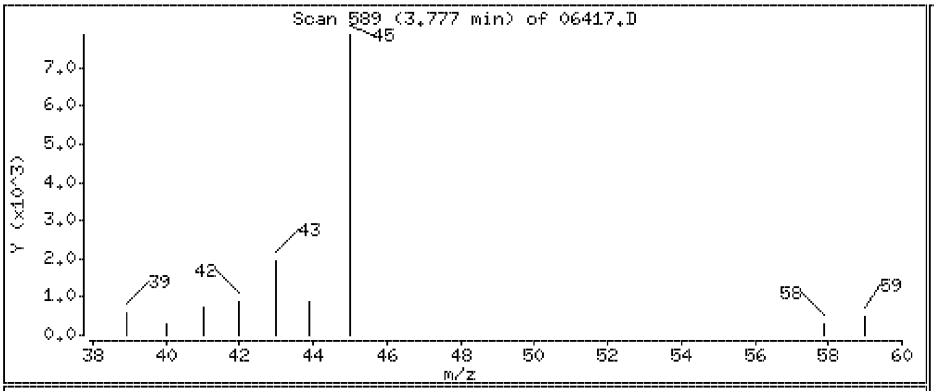
Operator: NCK

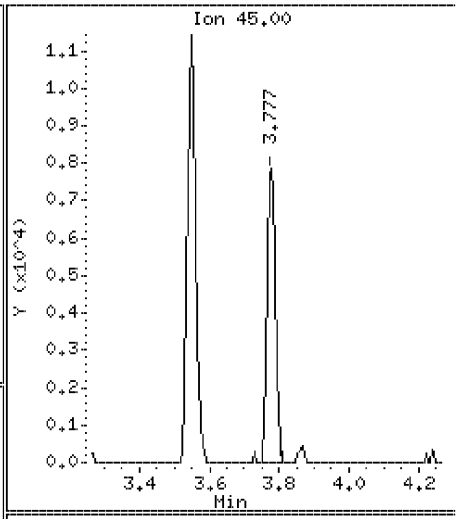
Column phase: J&W DB-5

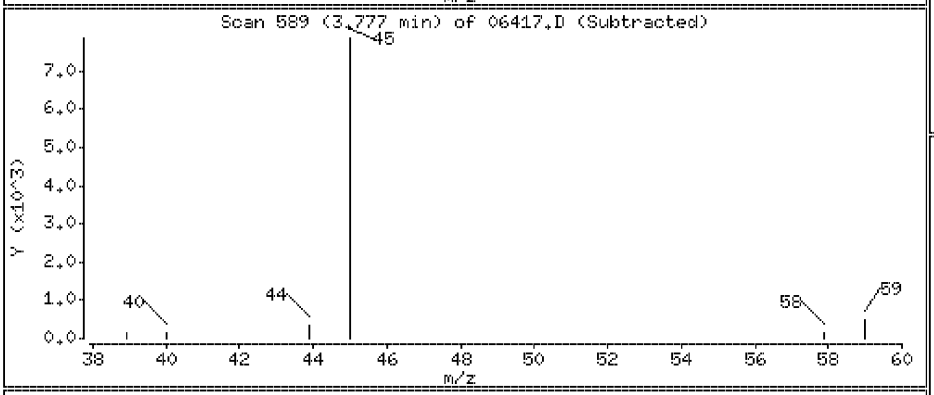
Column diameter: 0.32

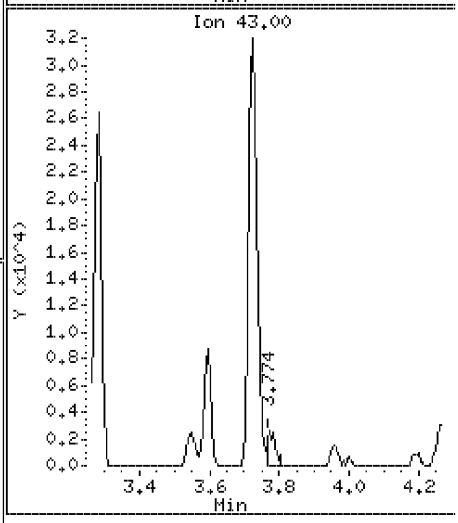
19 Isopropyl Alcohol

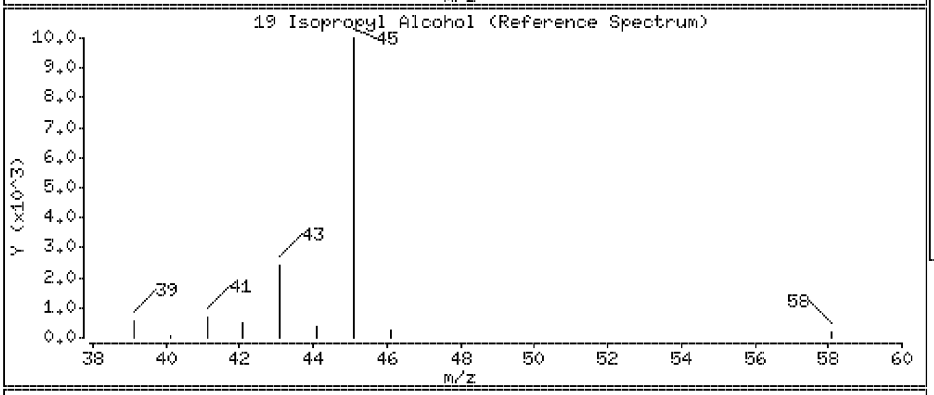
Concentration: 1.00 ppbv

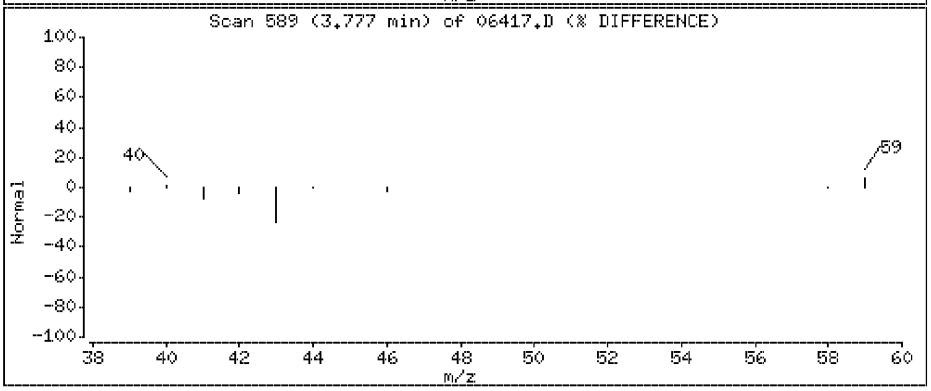












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

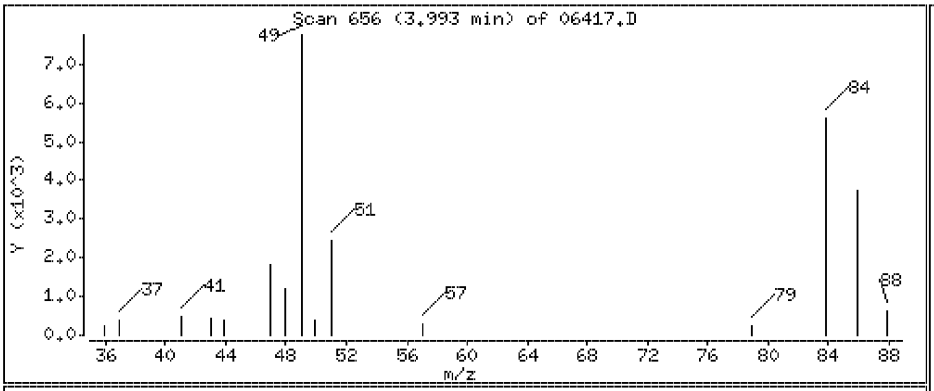
Operator: NCK

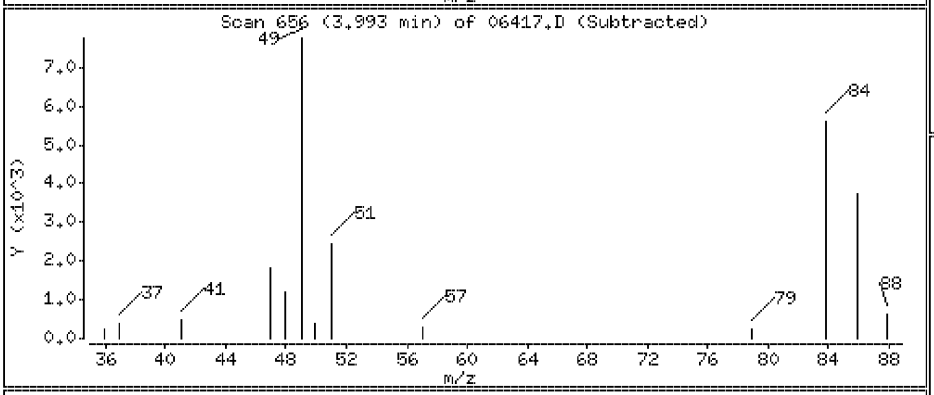
Column phase: J&W DB-5

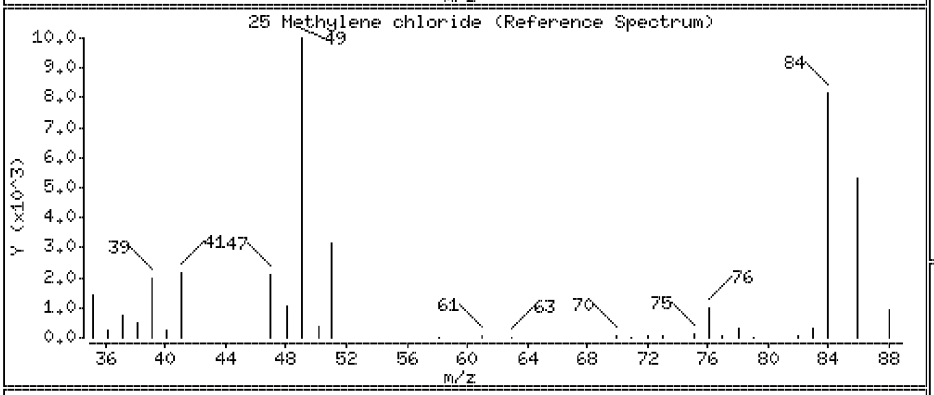
Column diameter: 0.32

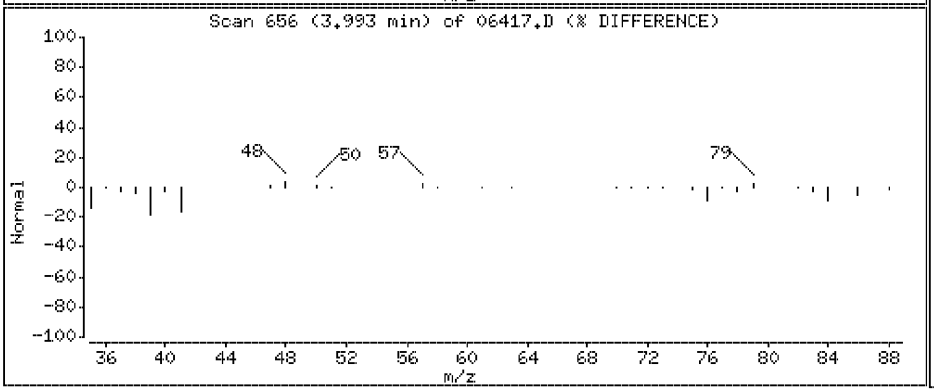
25 Methylene chloride

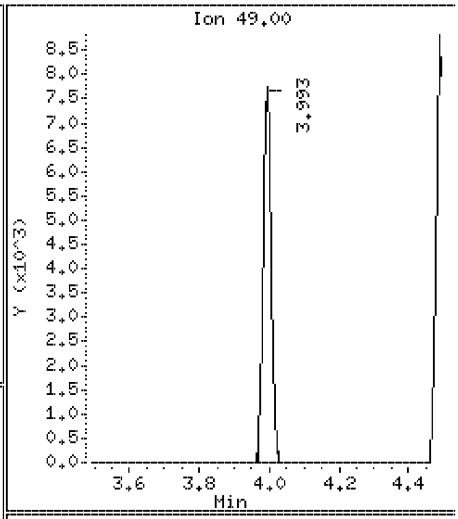
Concentration: 1.29 ppbv

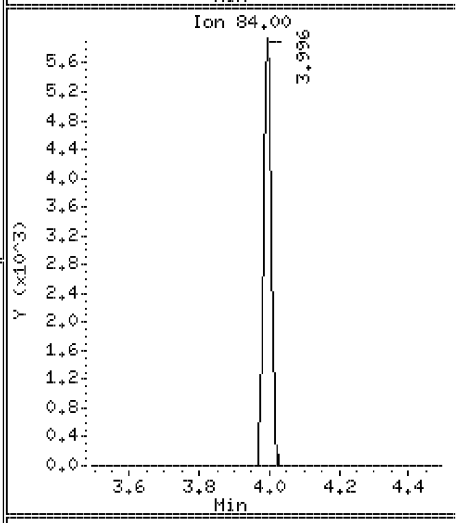


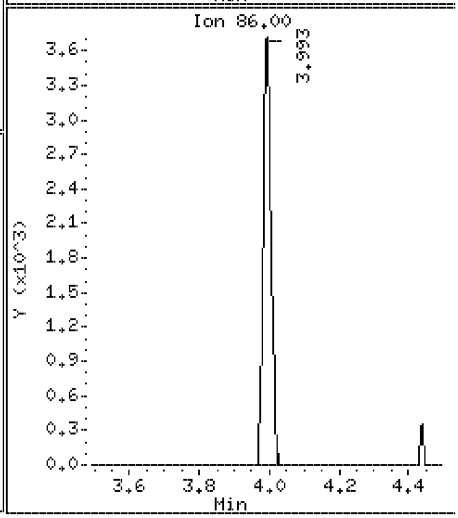












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

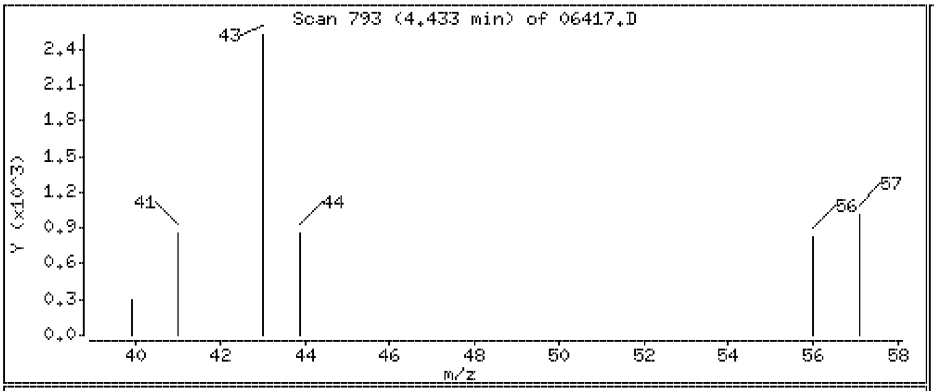
Operator: NCK

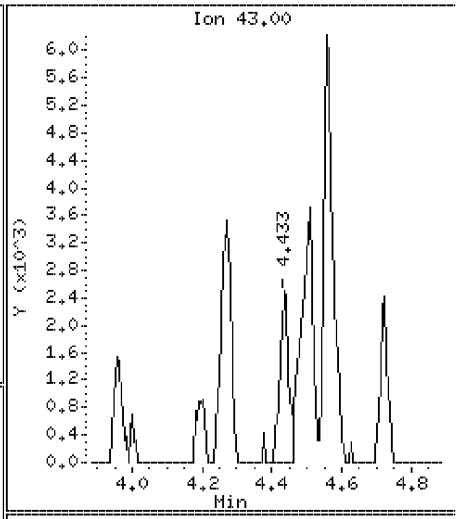
Column phase: J&W DB-5

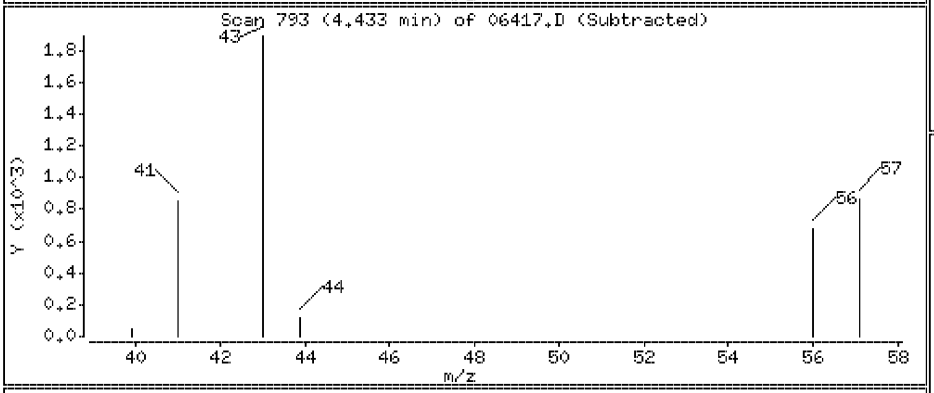
Column diameter: 0.32

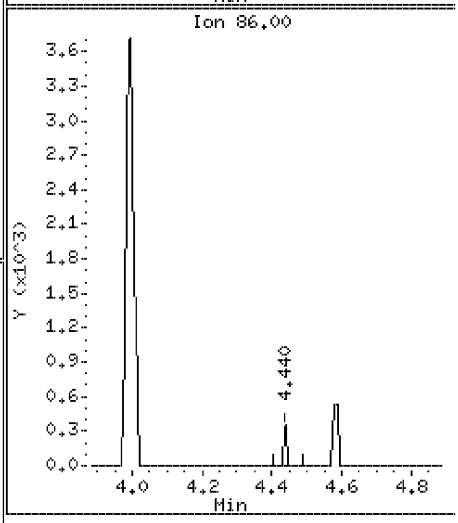
30 Vinyl Acetate

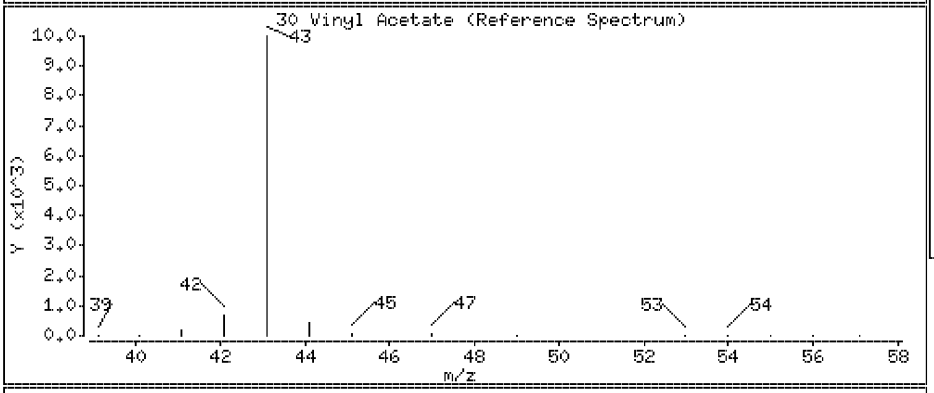
Concentration: 0.500 ppbv

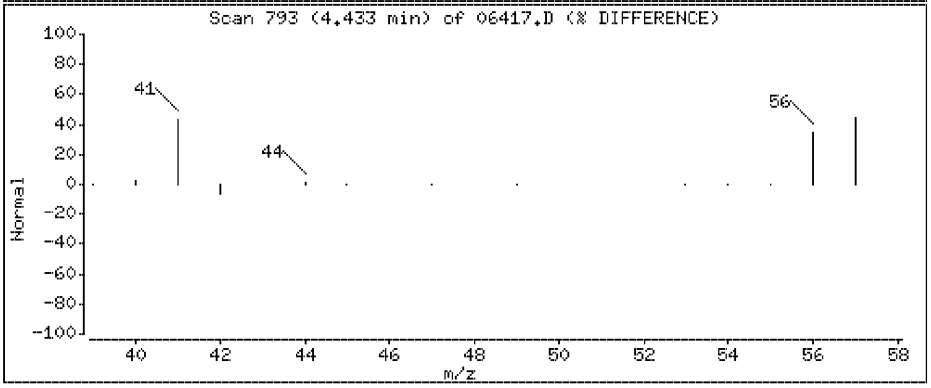












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

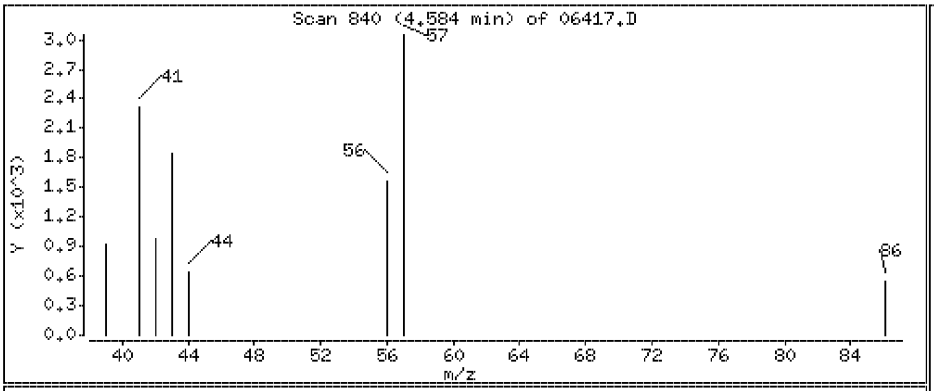
Operator: NCK

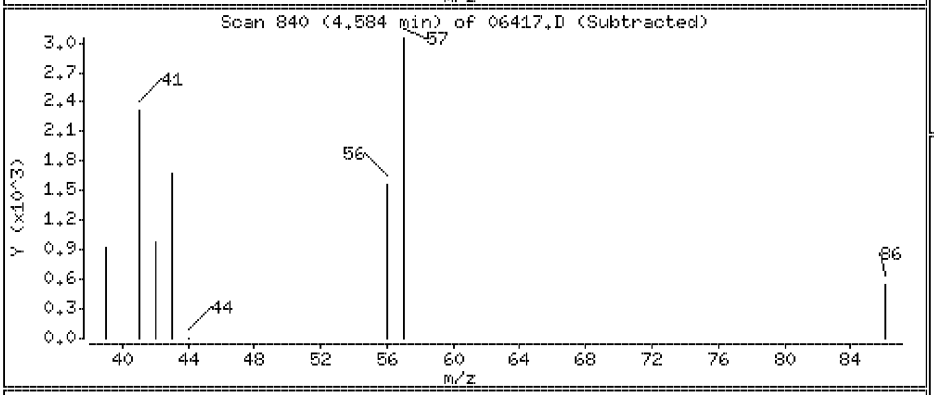
Column phase: J&W DB-5

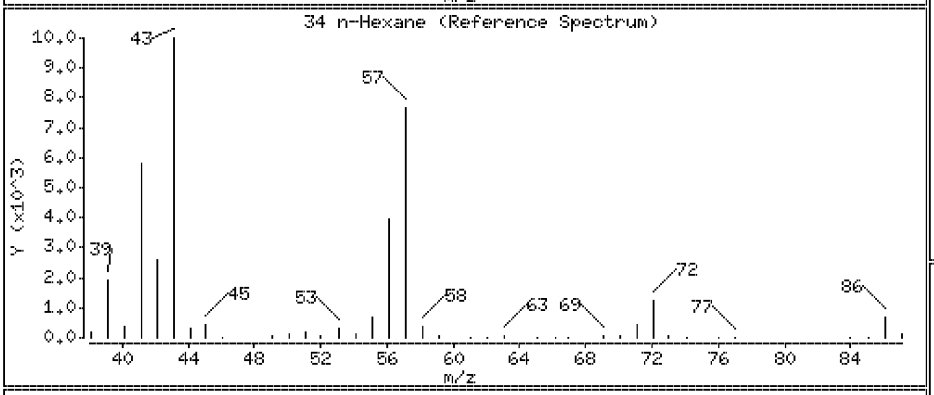
Column diameter: 0.32

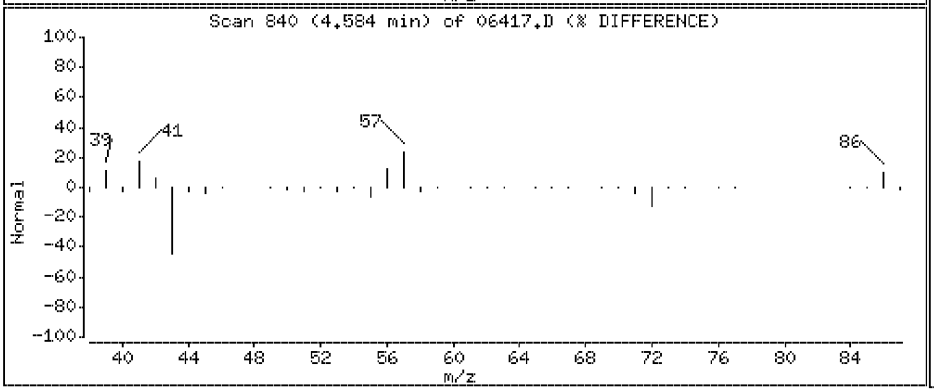
34 n-Hexane

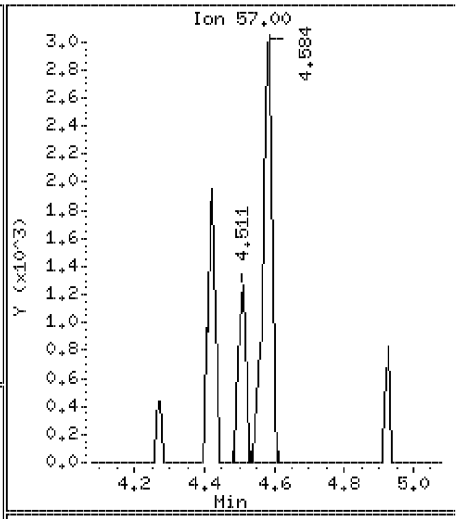
Concentration: 0.410 ppbv

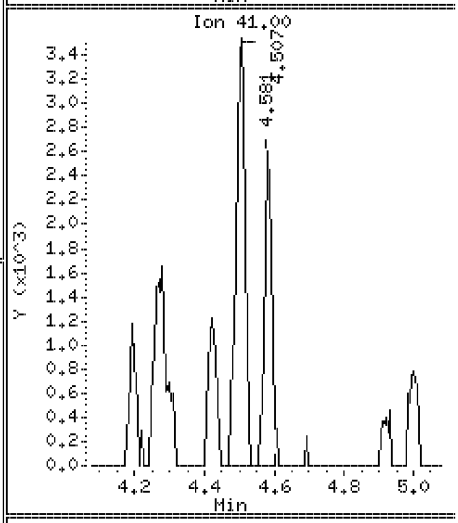


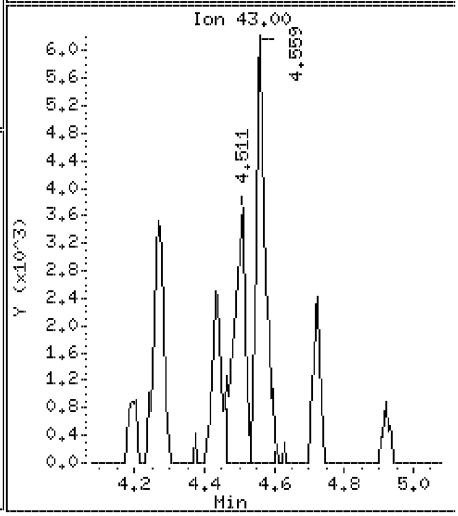












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

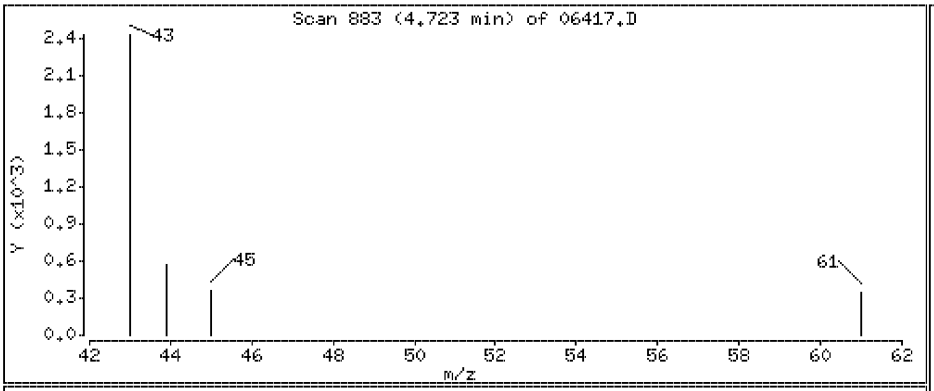
Operator: NCK

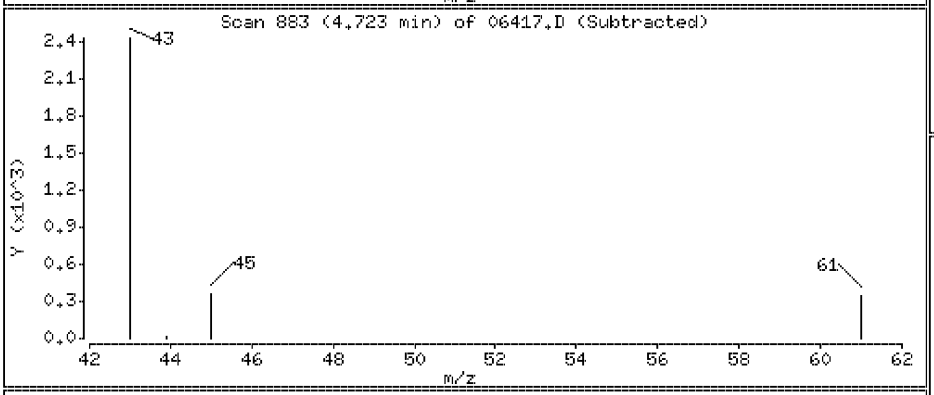
Column phase: J&W DB-5

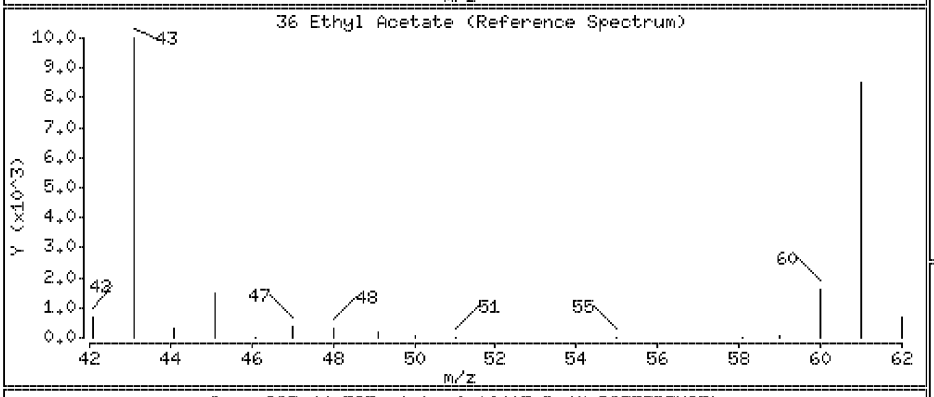
Column diameter: 0.32

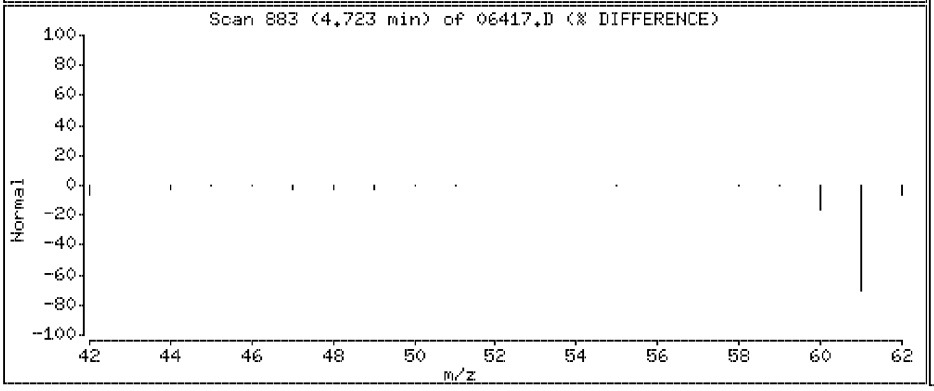
36 Ethyl Acetate

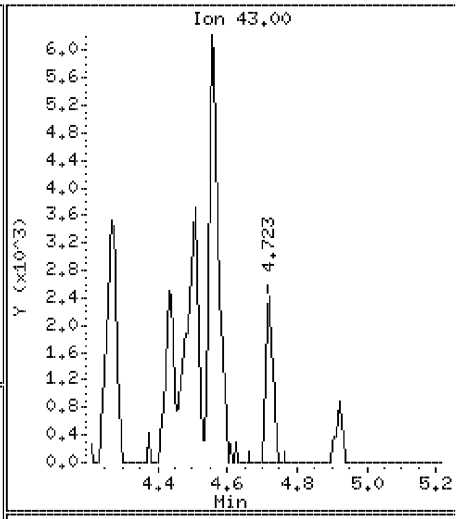
Concentration: 0.197 ppbv

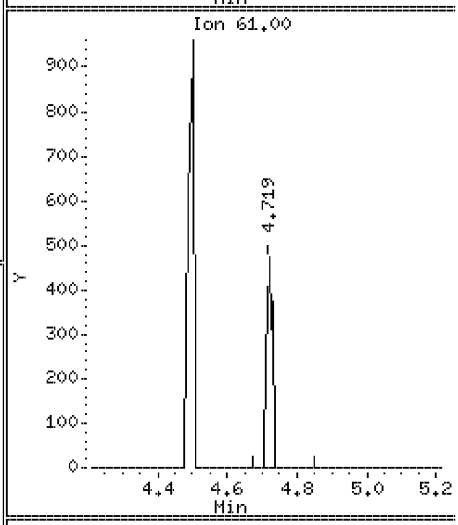


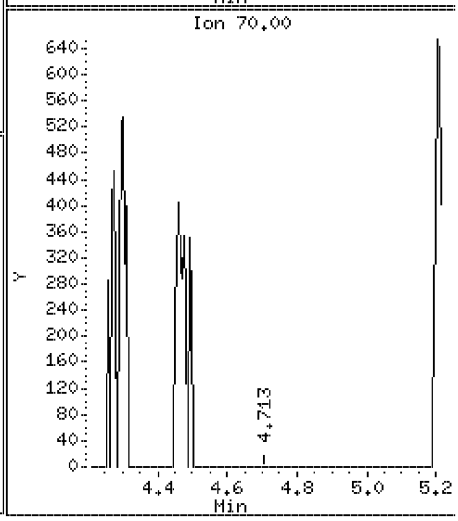












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

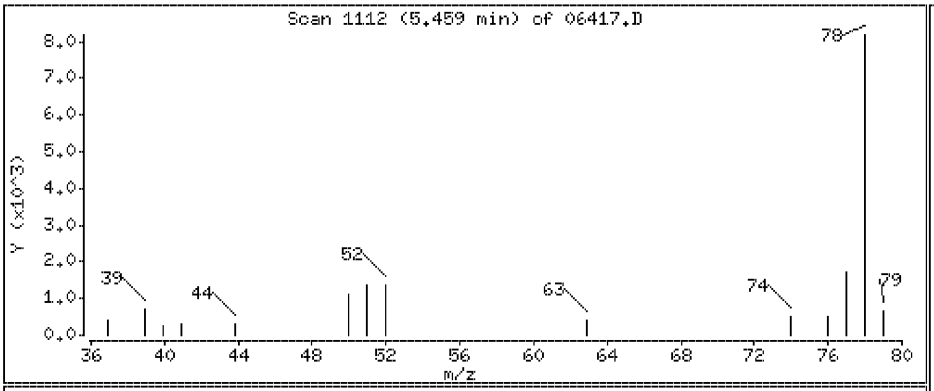
Operator: NCK

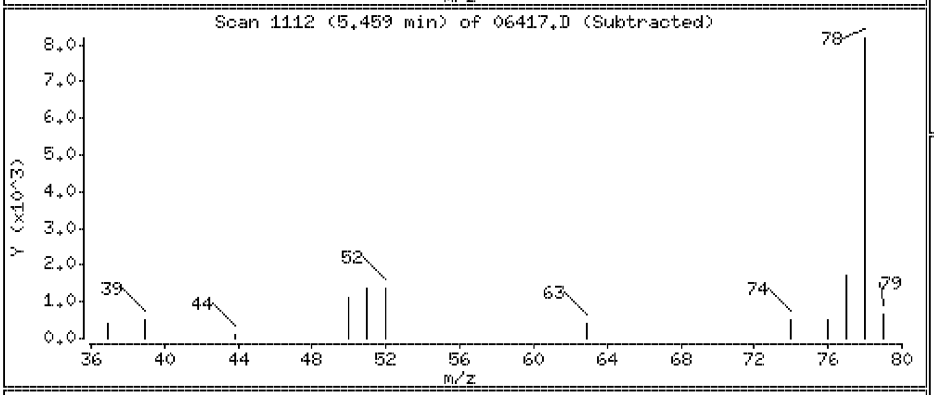
Column phase: J&W DB-5

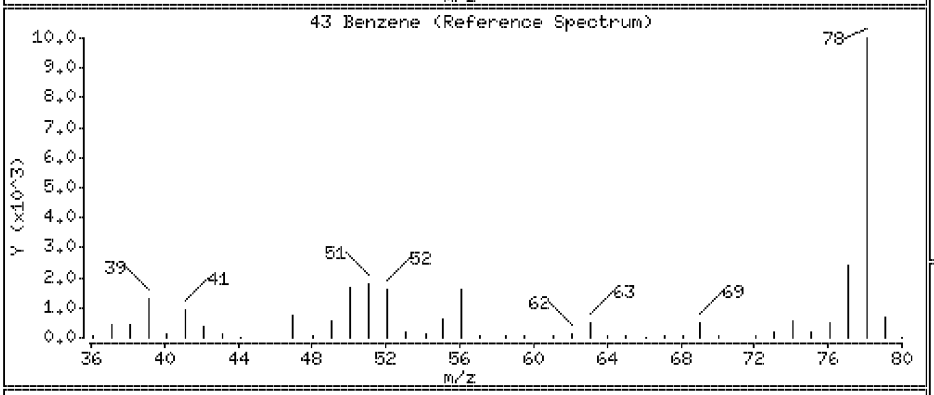
Column diameter: 0.32

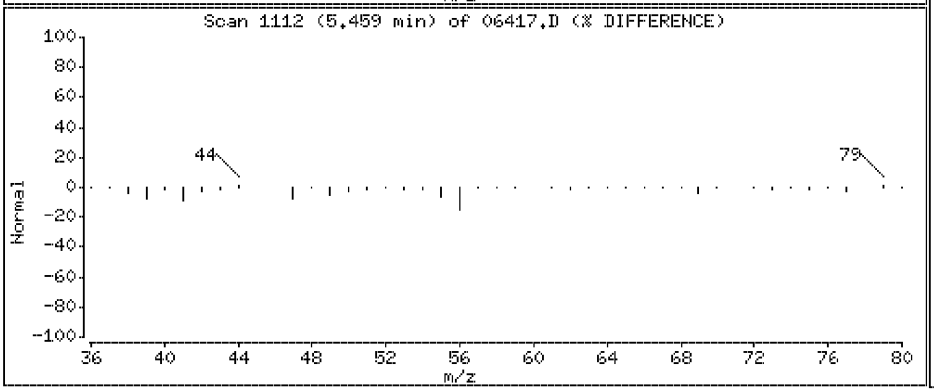
43 Benzene

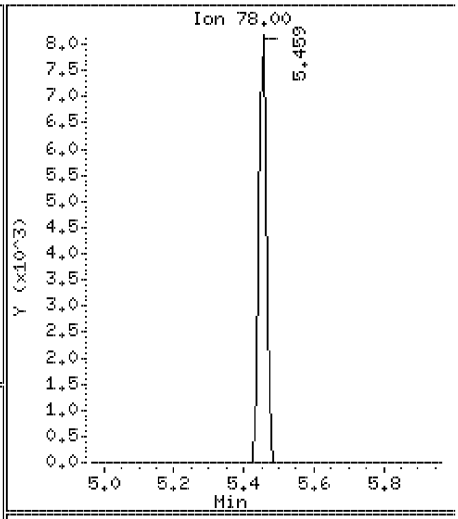
Concentration: 0.466 ppbv

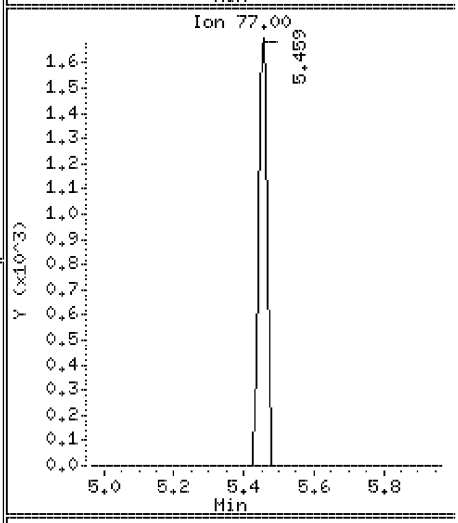


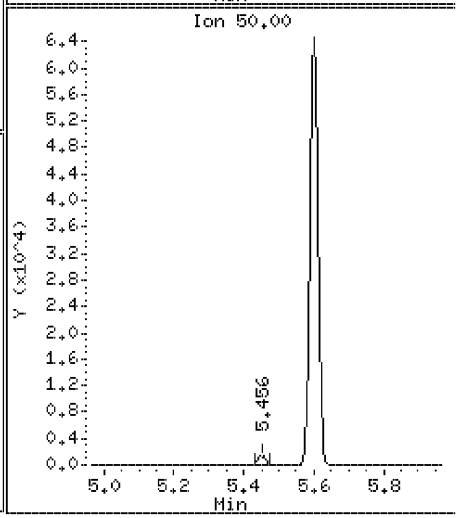












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

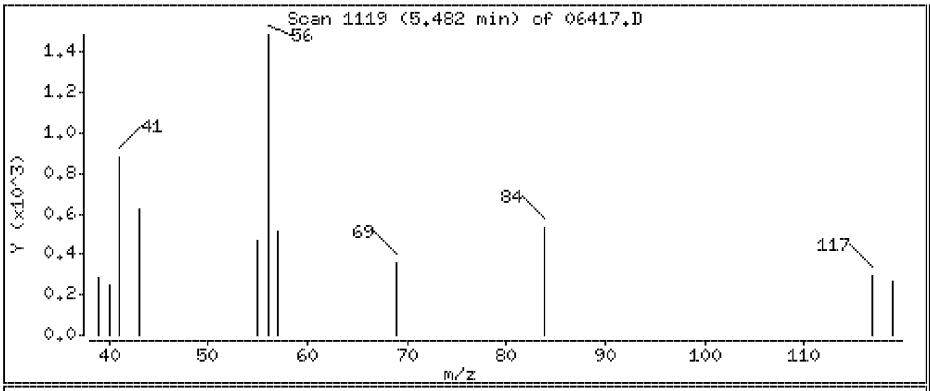
Operator: NCK

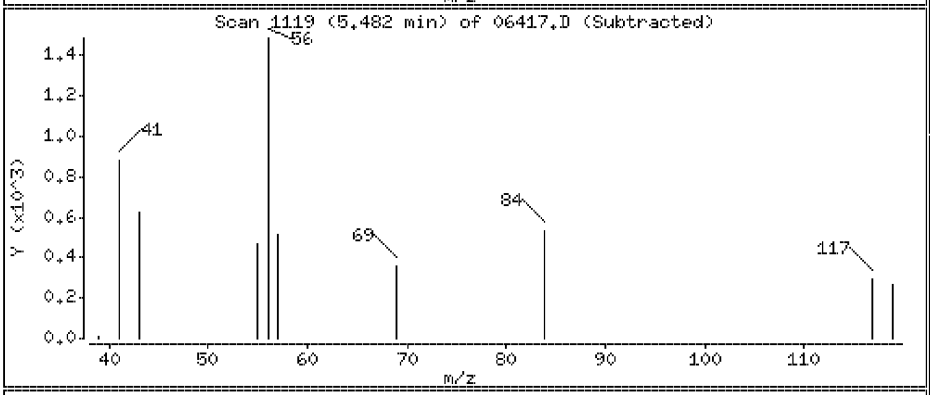
Column phase: J&W DB-5

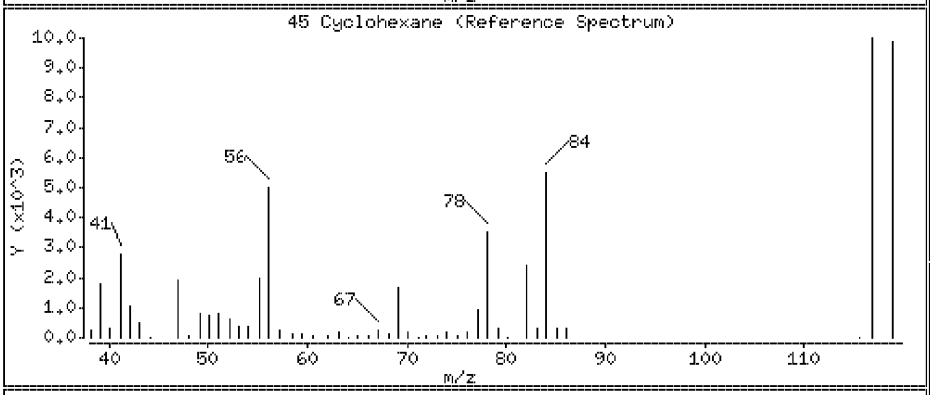
Column diameter: 0.32

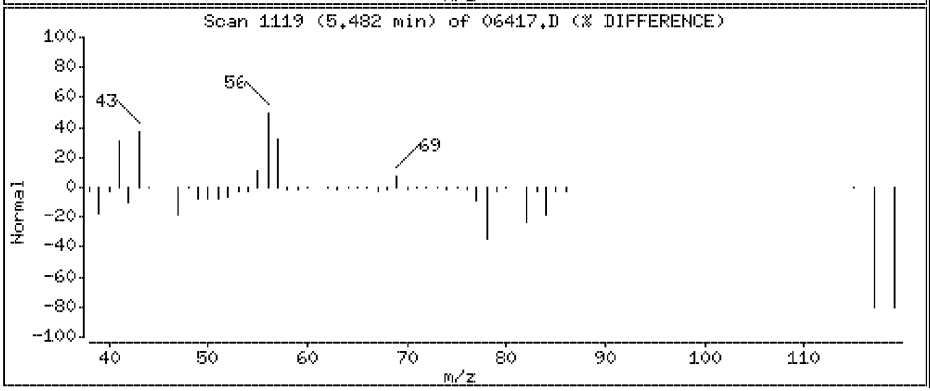
45 Cyclohexane

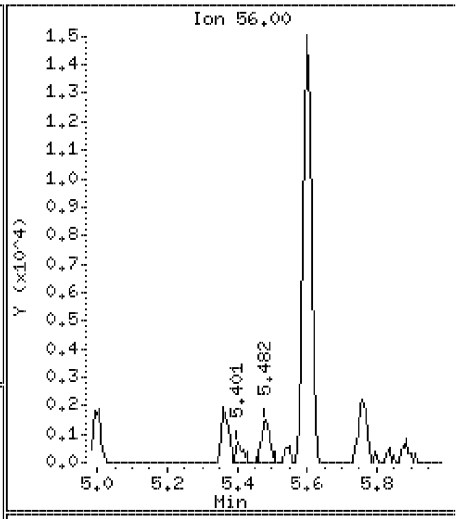
Concentration: 0.176 ppbv

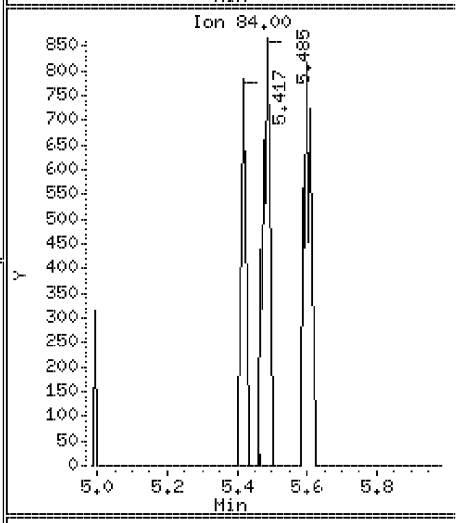


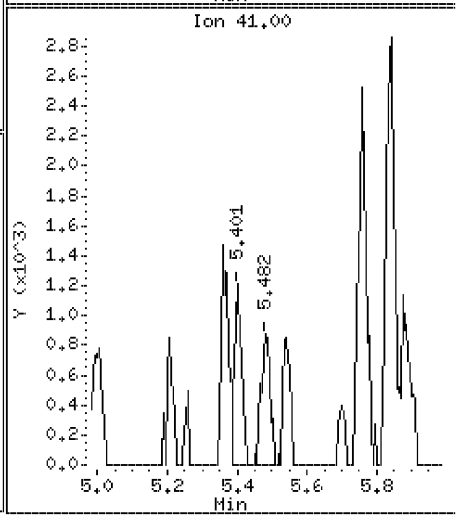












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

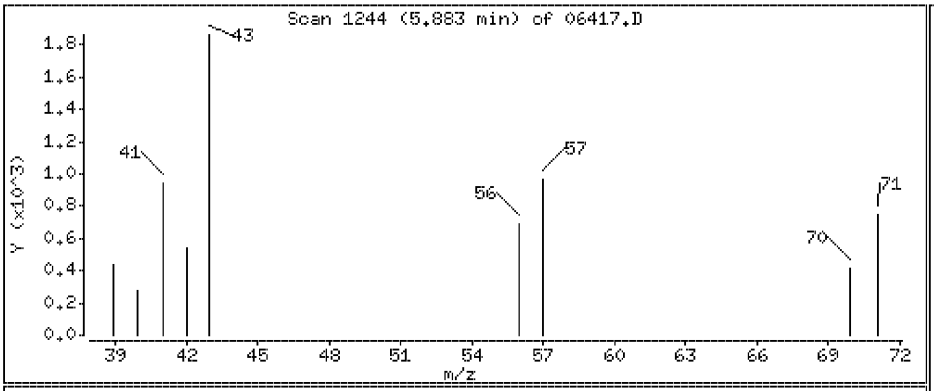
Operator: NCK

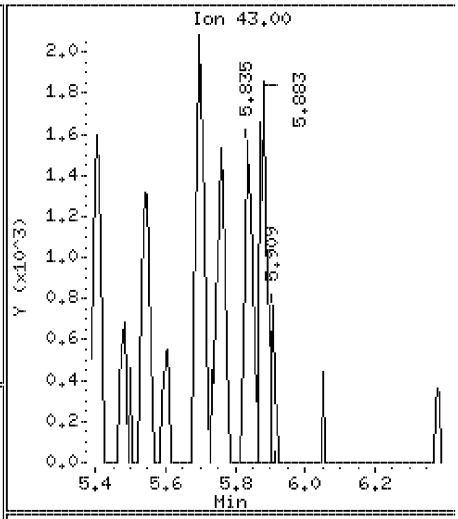
Column phase: J&W DB-5

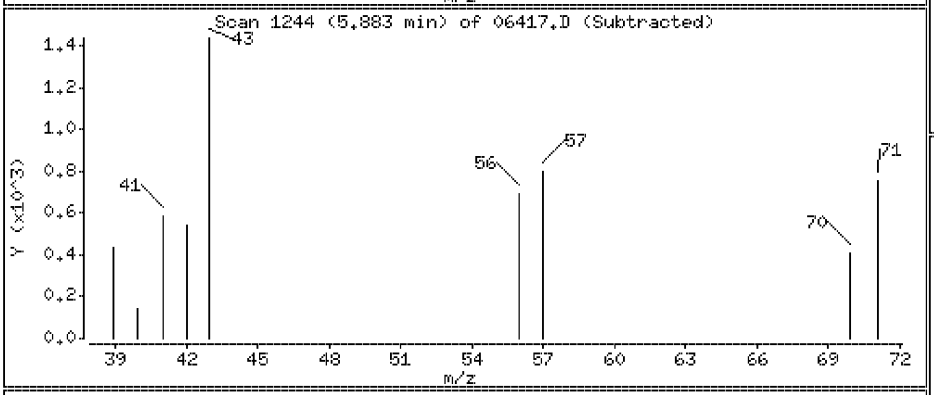
Column diameter: 0.32

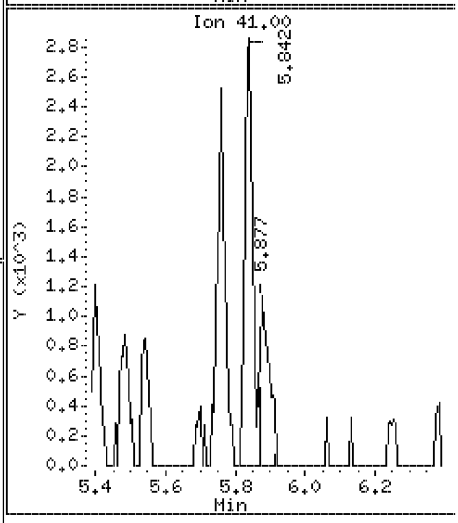
49 Heptane

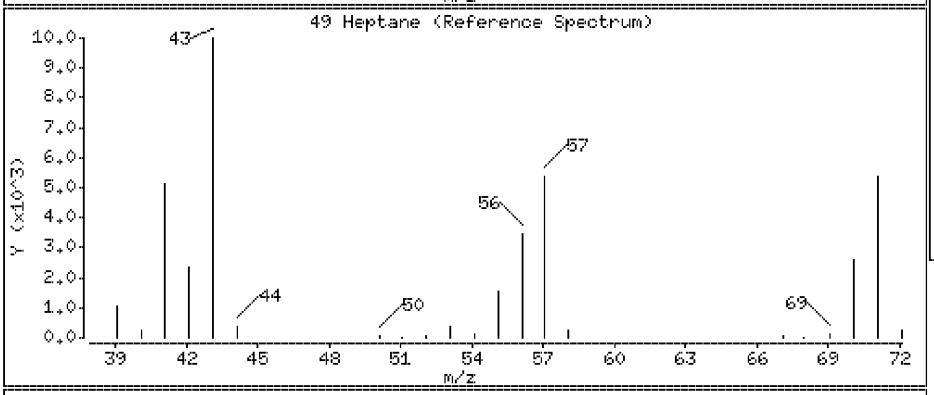
Concentration: 0.174 ppbv

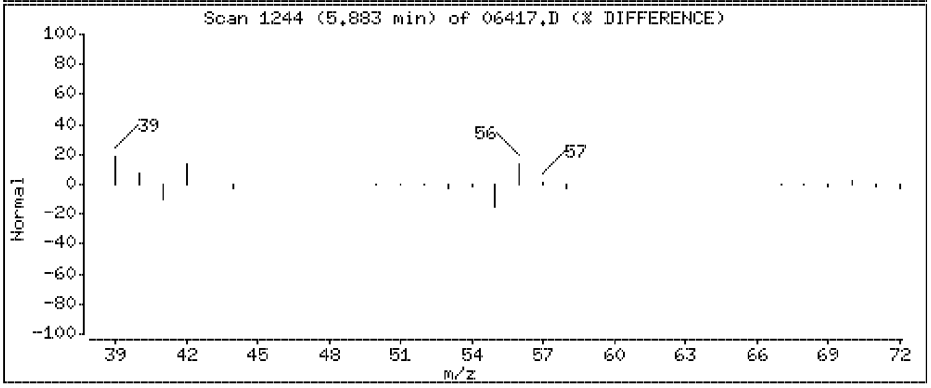












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

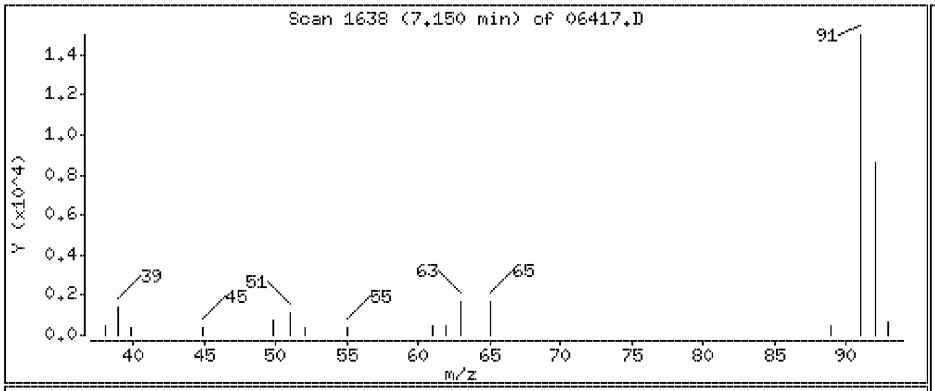
Operator: NCK

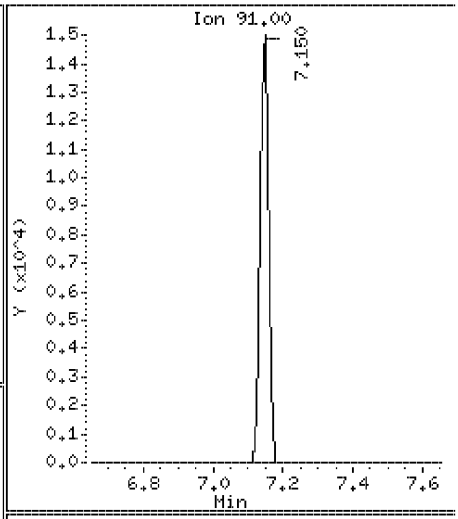
Column phase: J&W DB-5

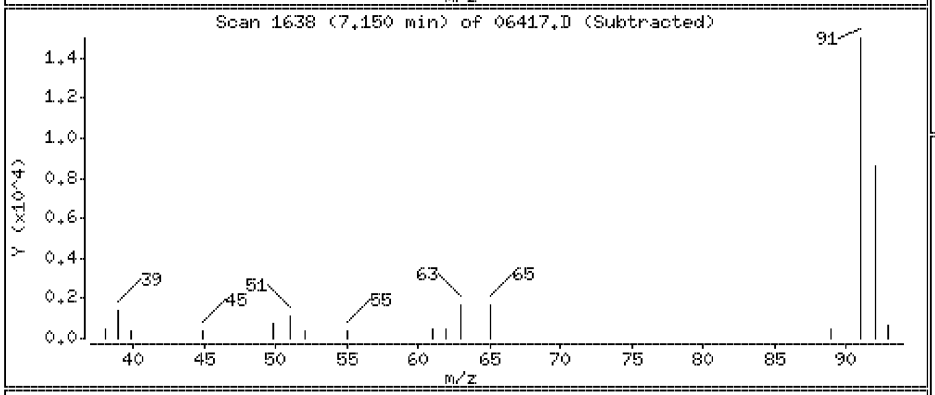
Column diameter: 0.32

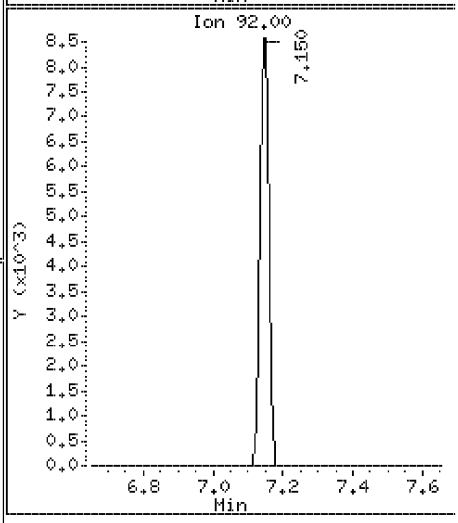
61 Toluene

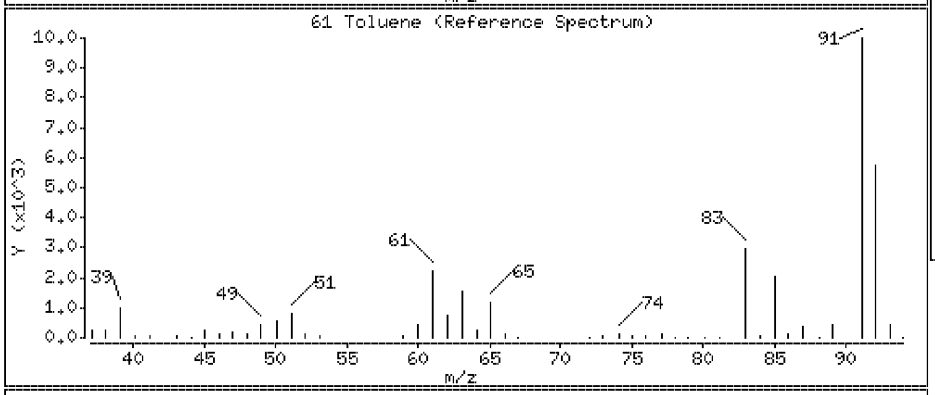
Concentration: 0.725 ppbv

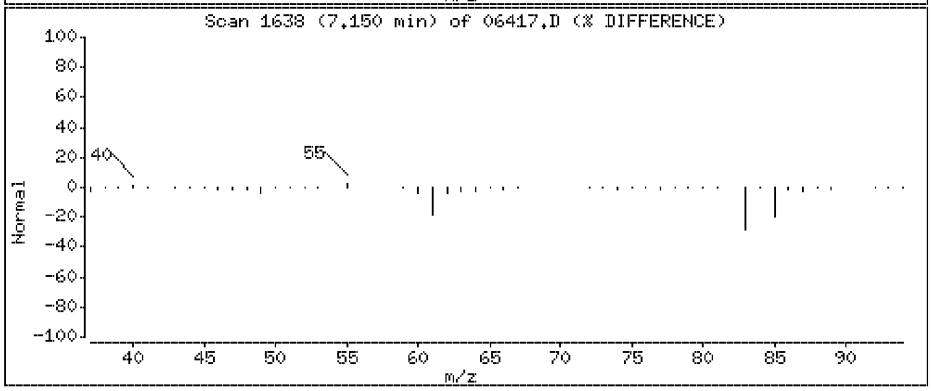












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

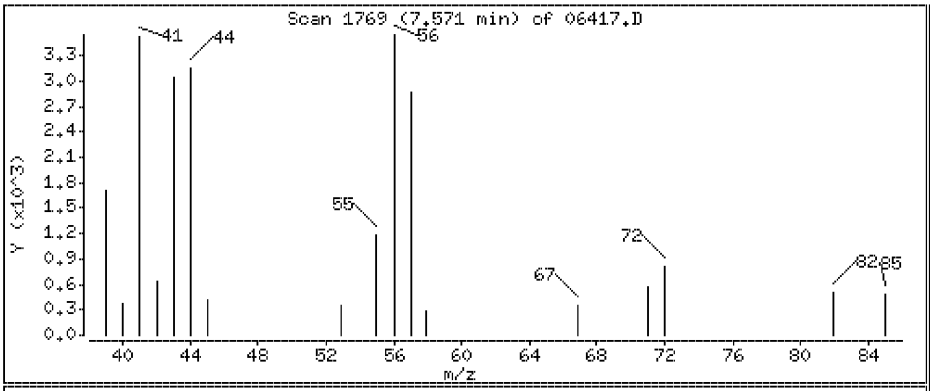
Operator: NCK

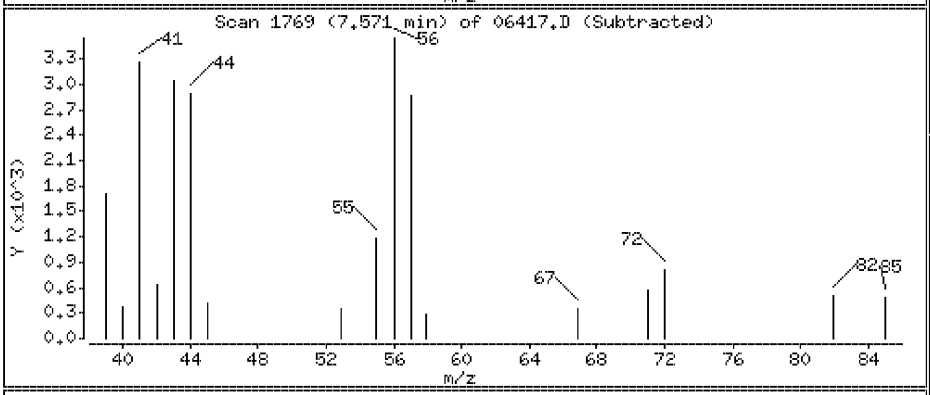
Column phase: J&W DB-5

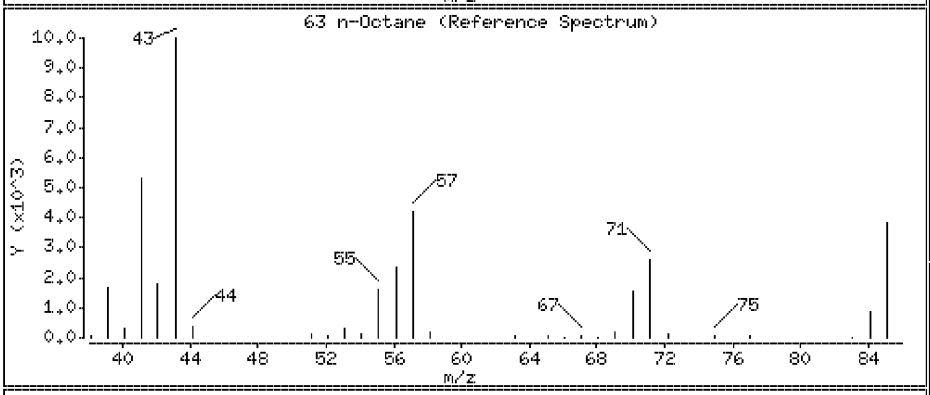
Column diameter: 0.32

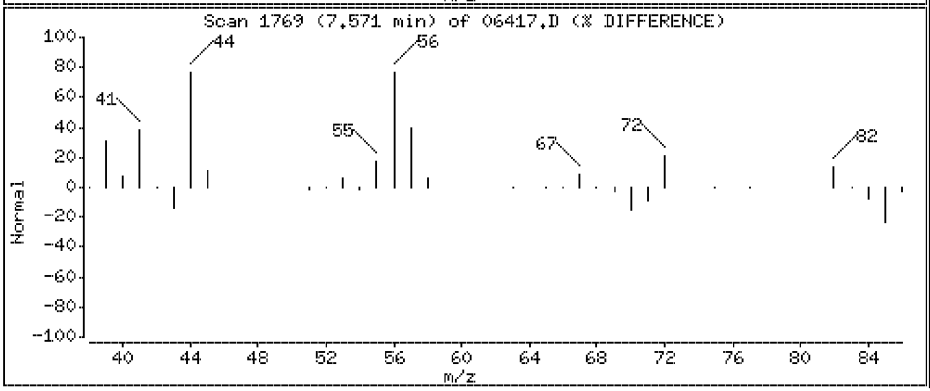
63 n-Octane

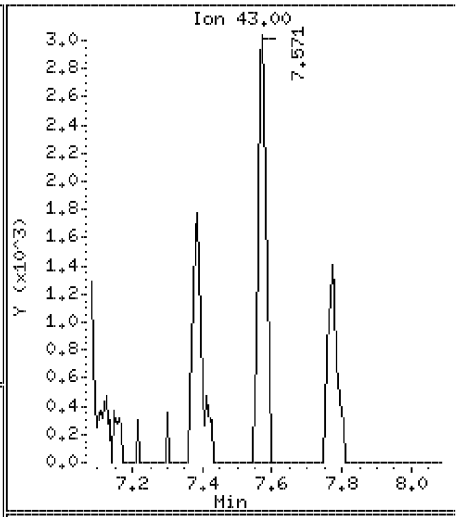
Concentration: 0.263 ppbv

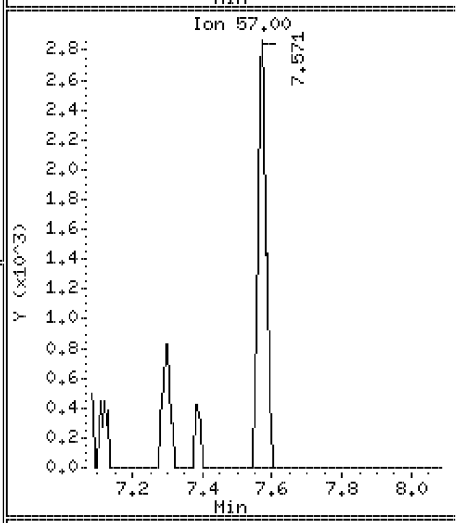


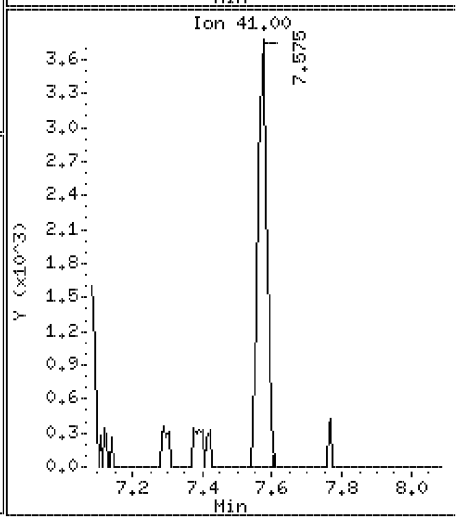












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

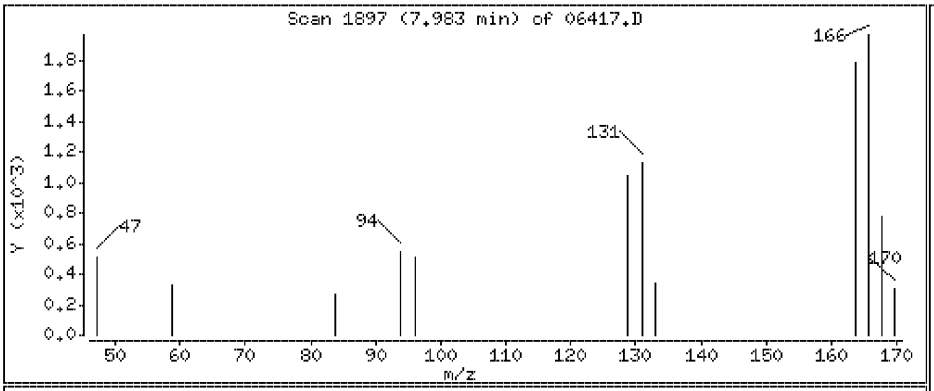
Operator: NCK

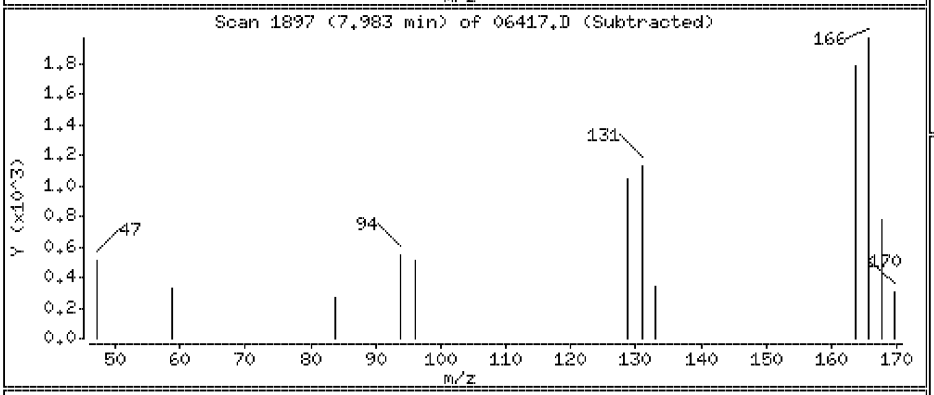
Column phase: J&W DB-5

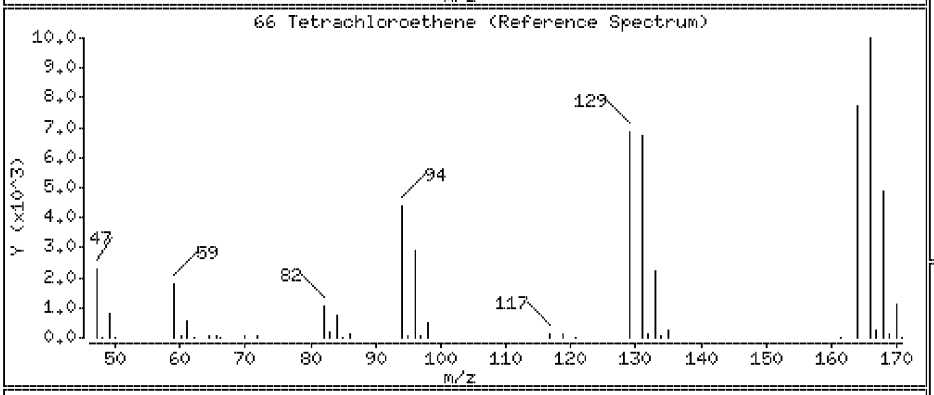
Column diameter: 0.32

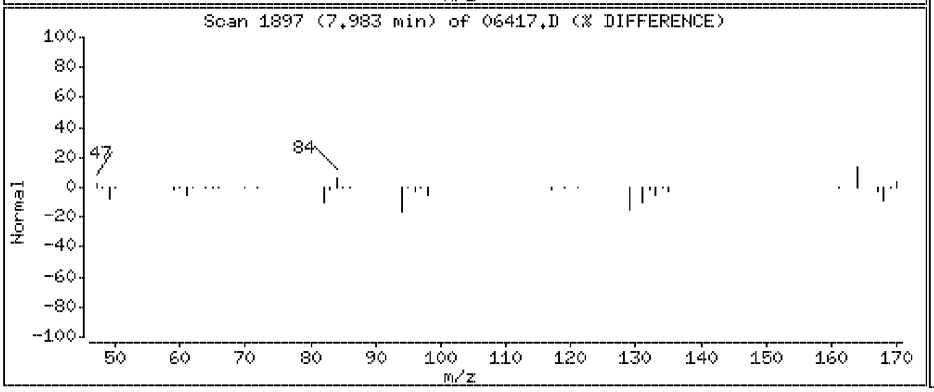
66 Tetrachloroethene

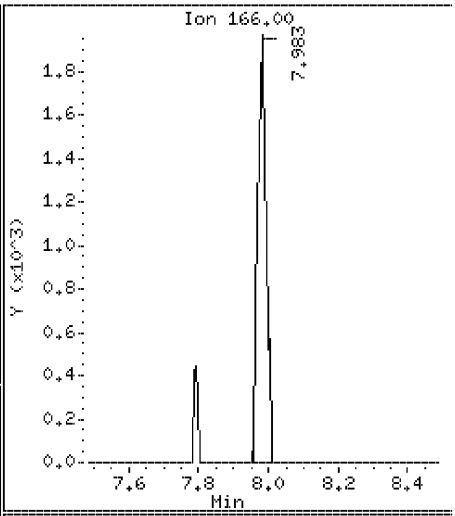
Concentration: 0.175 ppbv

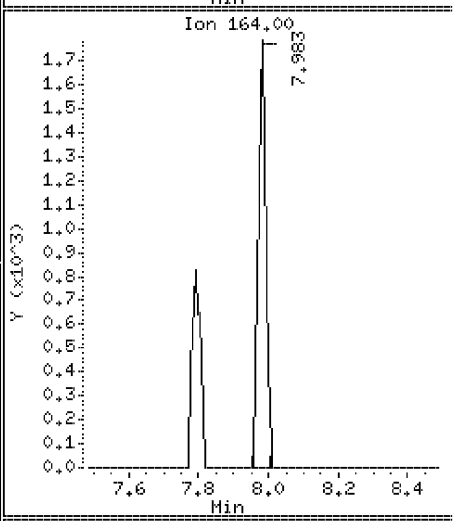


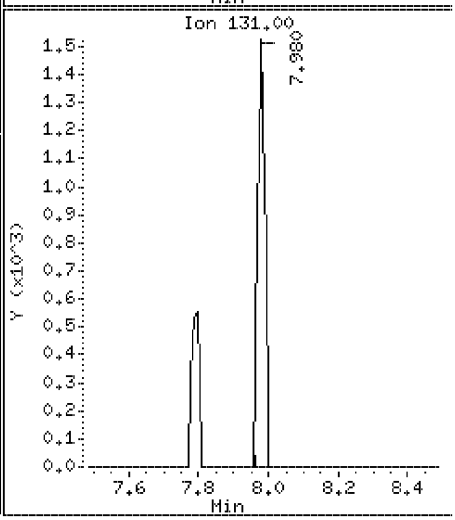












Data File: \\192.168.10.12\chem\10airB.i\030517.b\06417.D

Date : 05-MAR-2017 17:17

Client ID:

Instrument: 10airB.i

Sample Info:

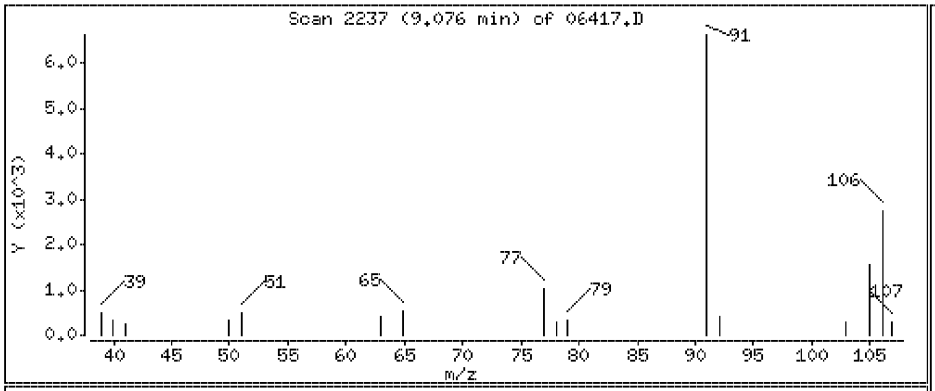
Operator: NCK

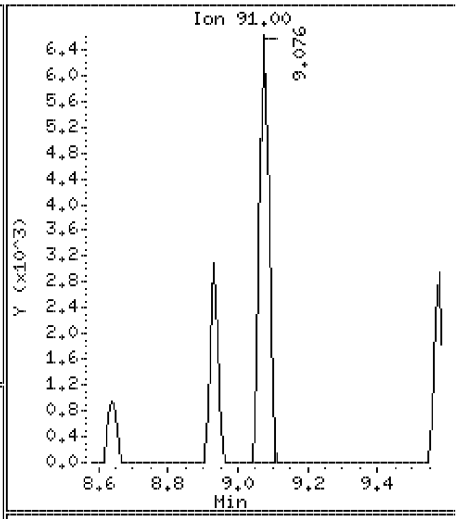
Column phase: J&W DB-5

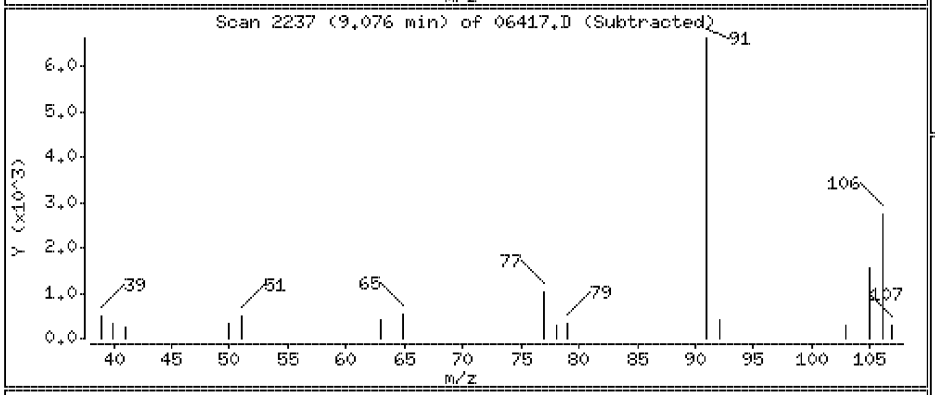
Column diameter: 0.32

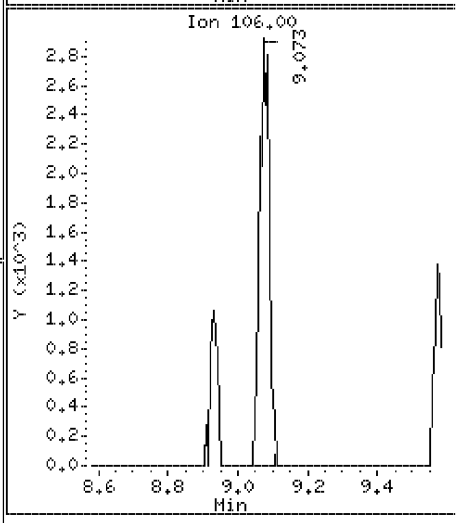
70 m&p-Xylene

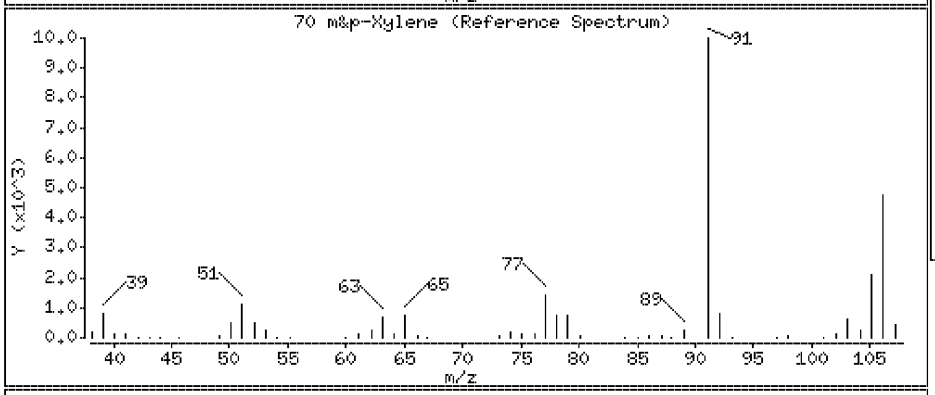
Concentration: 0.406 ppbv

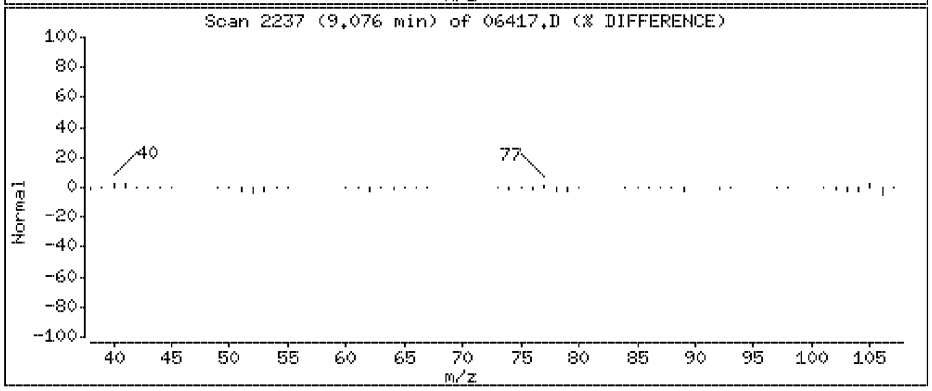






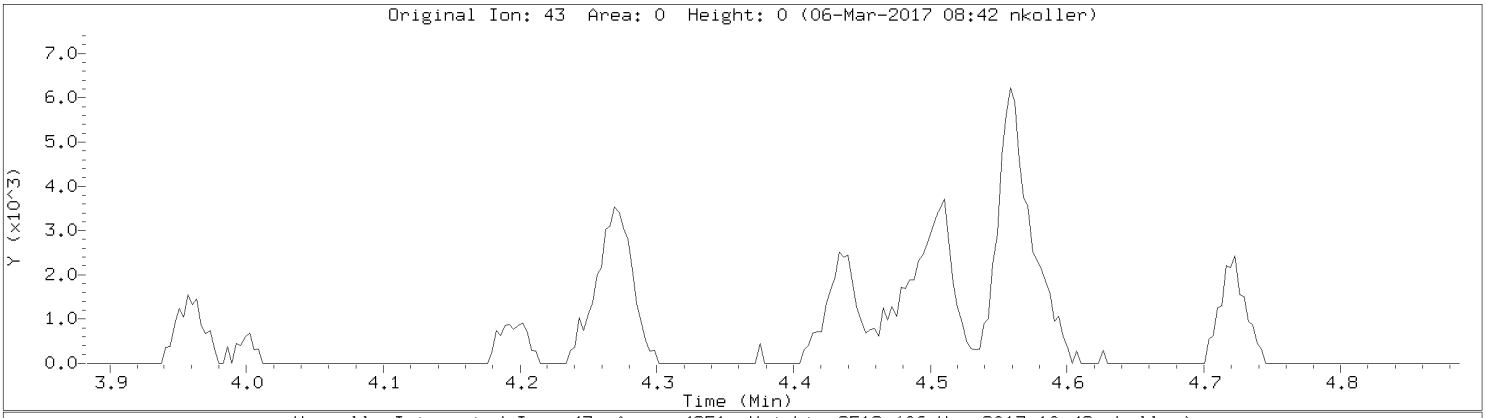


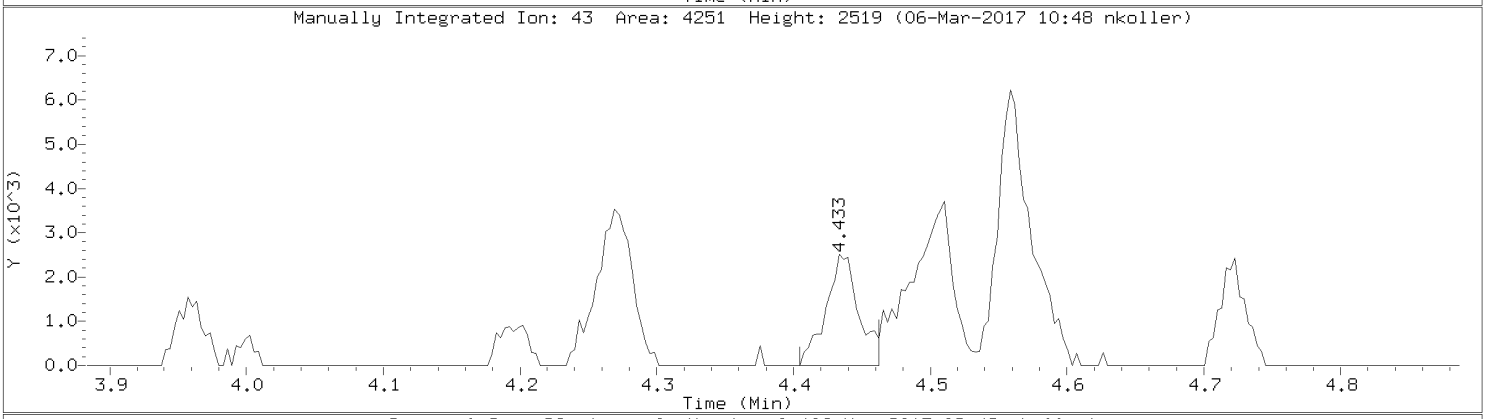


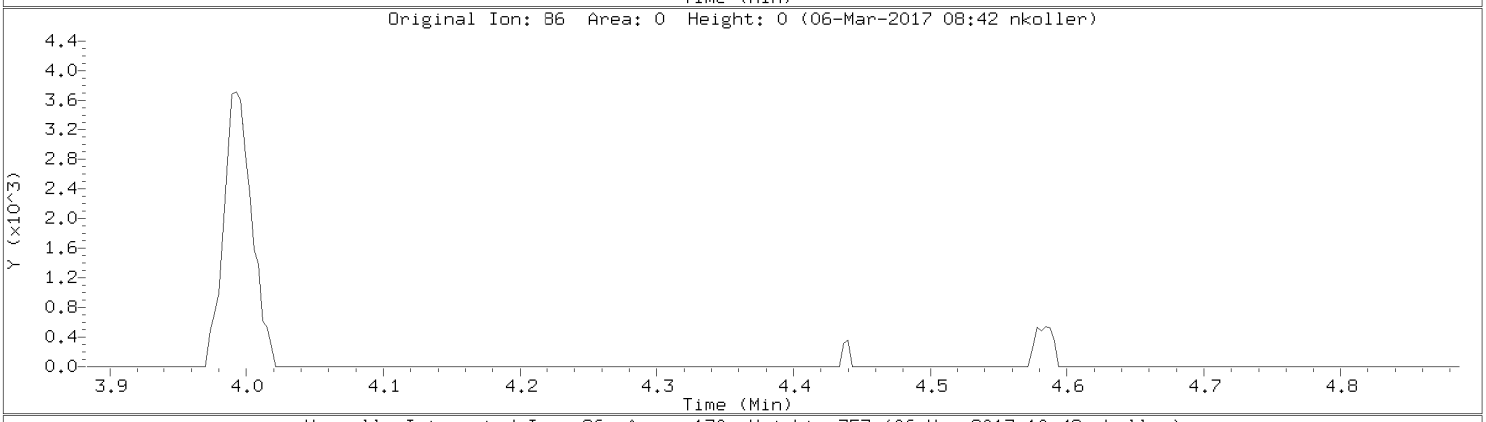


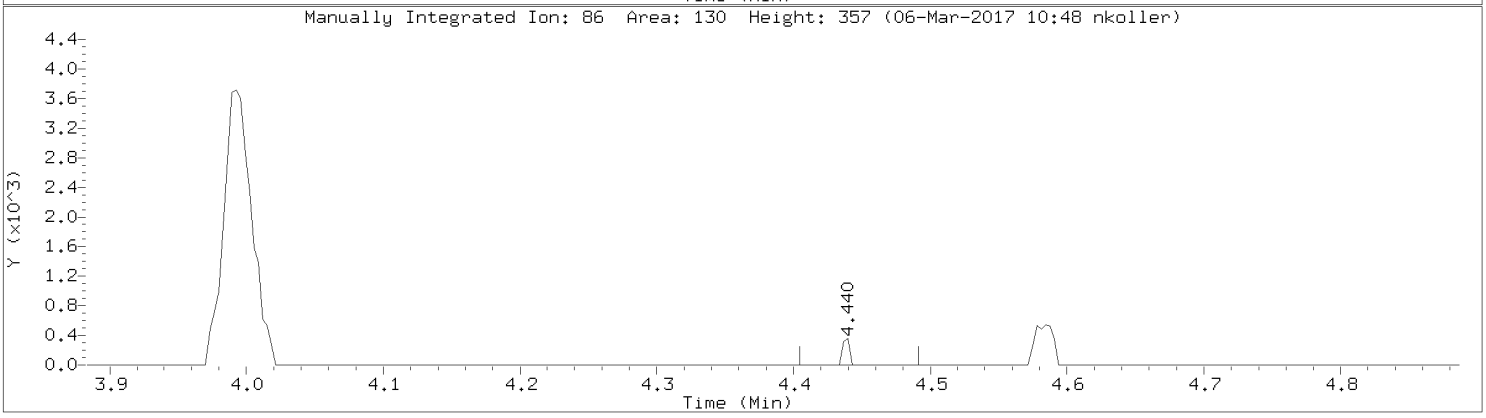
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06417.D
Injection Date: 05-MAR-2017 17:17
Instrument: 10airB.i
Lab Sample ID: 10379458016

Compound: Vinyl Acetate
CAS Number: 108-05-4



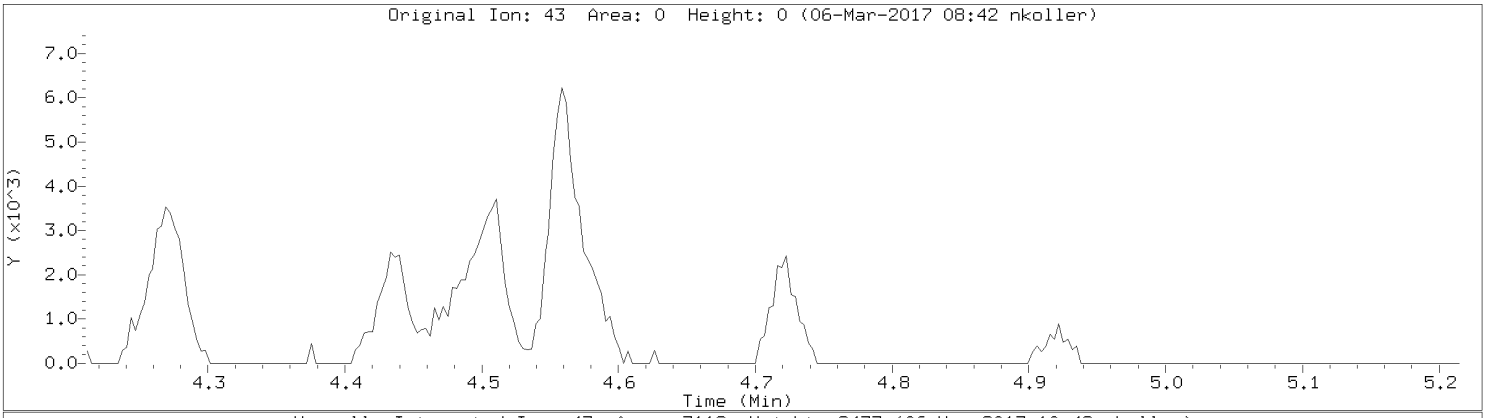


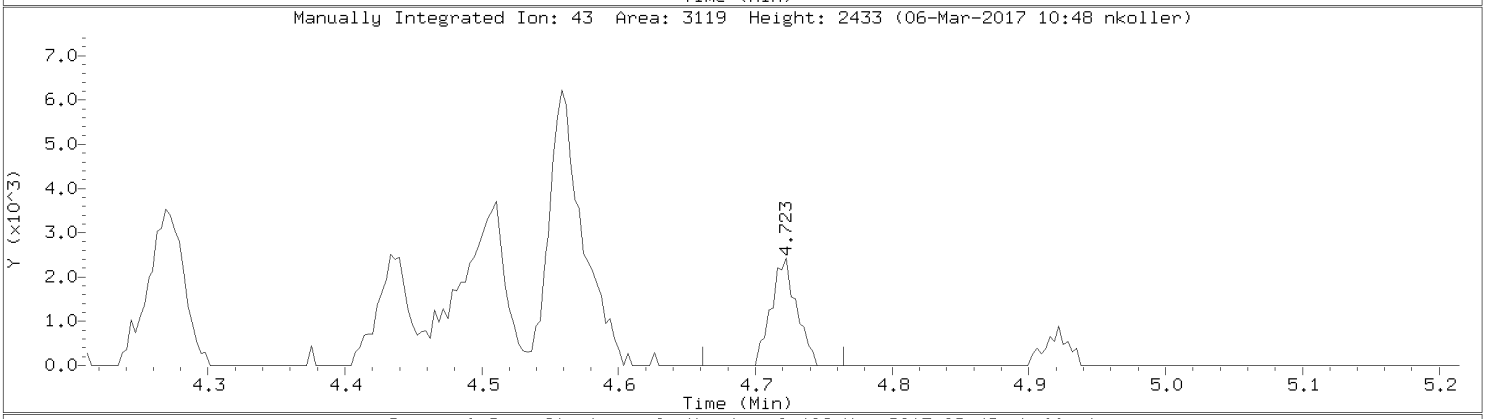


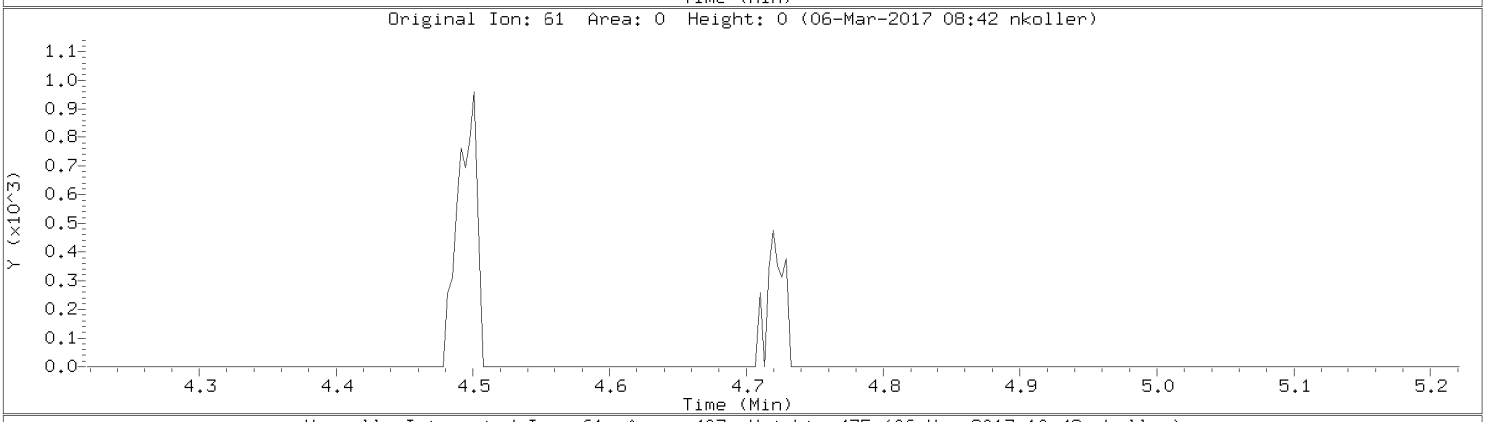


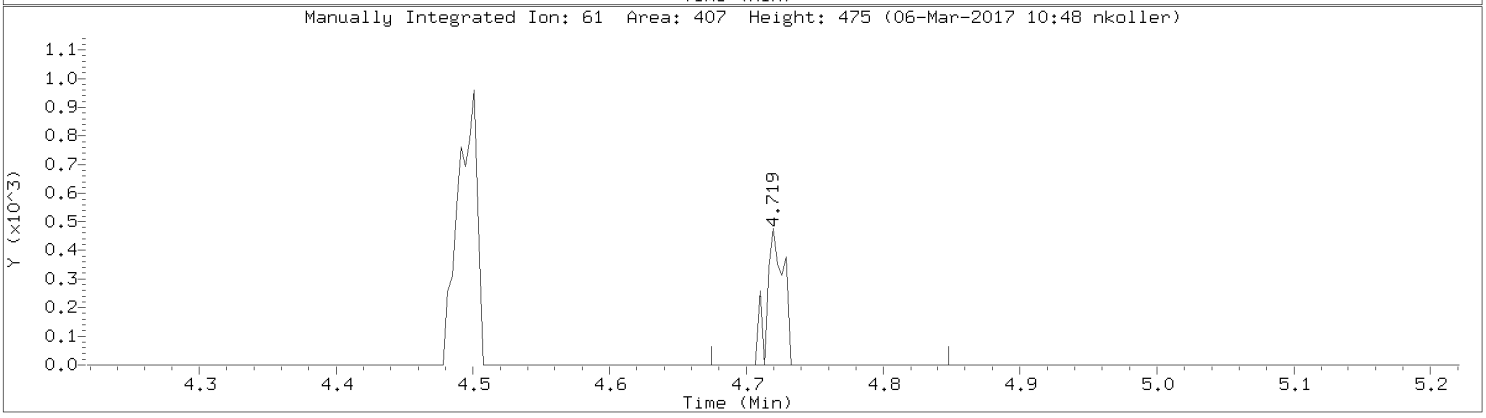
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06417.D
Injection Date: 05-MAR-2017 17:17
Instrument: 10airB.i
Lab Sample ID: 10379458016

Compound: Ethyl Acetate
CAS Number: 141-78-6

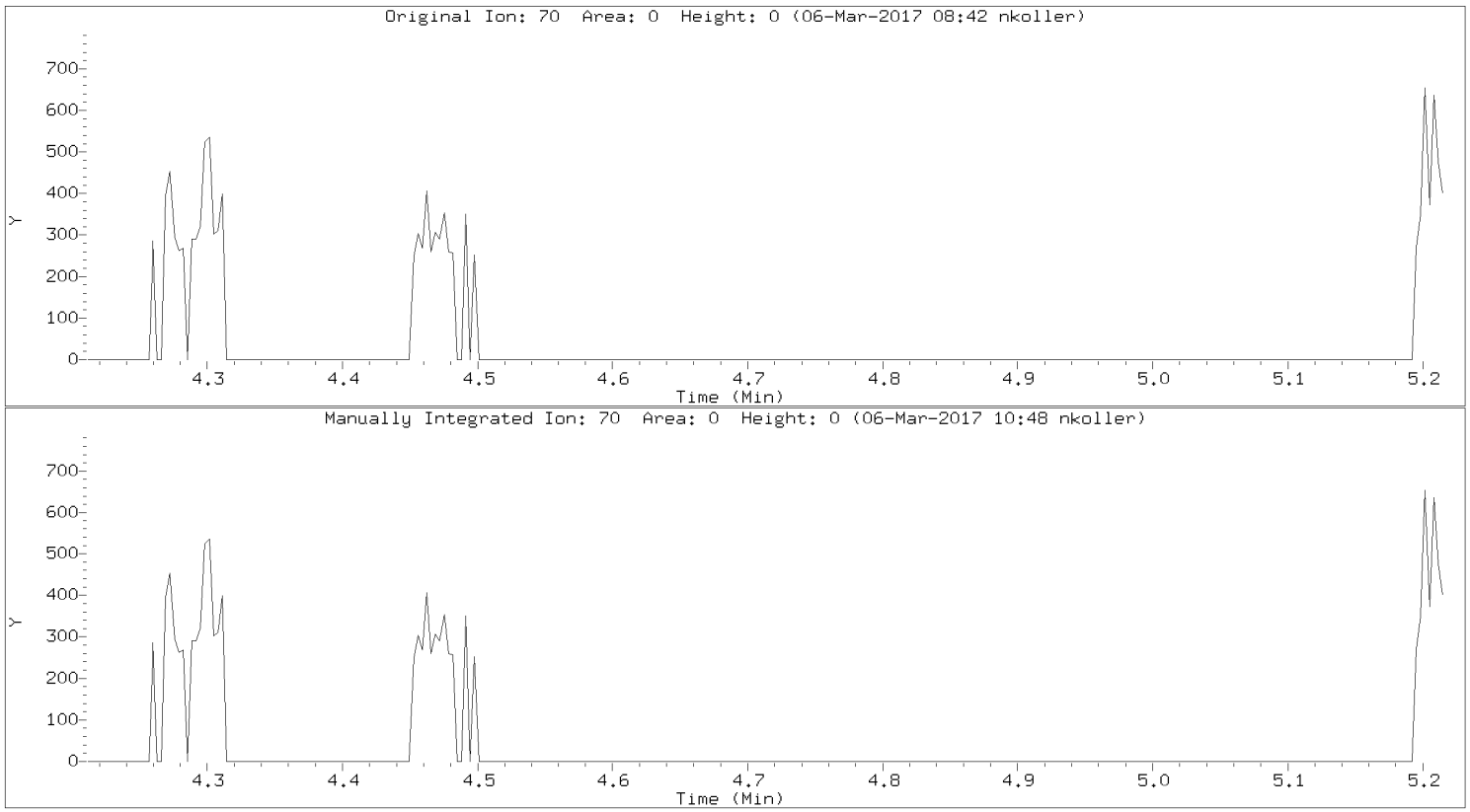






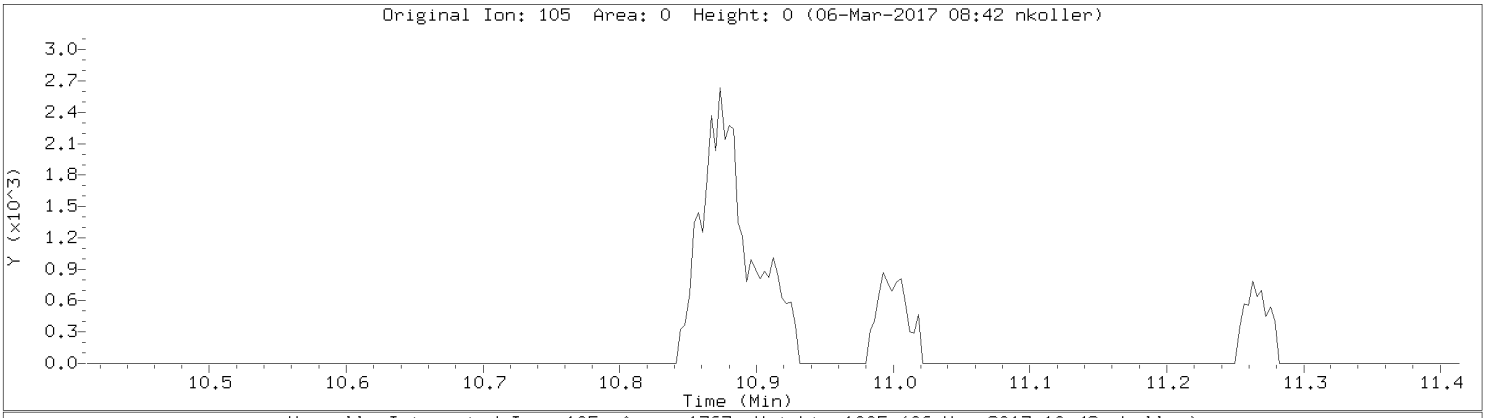


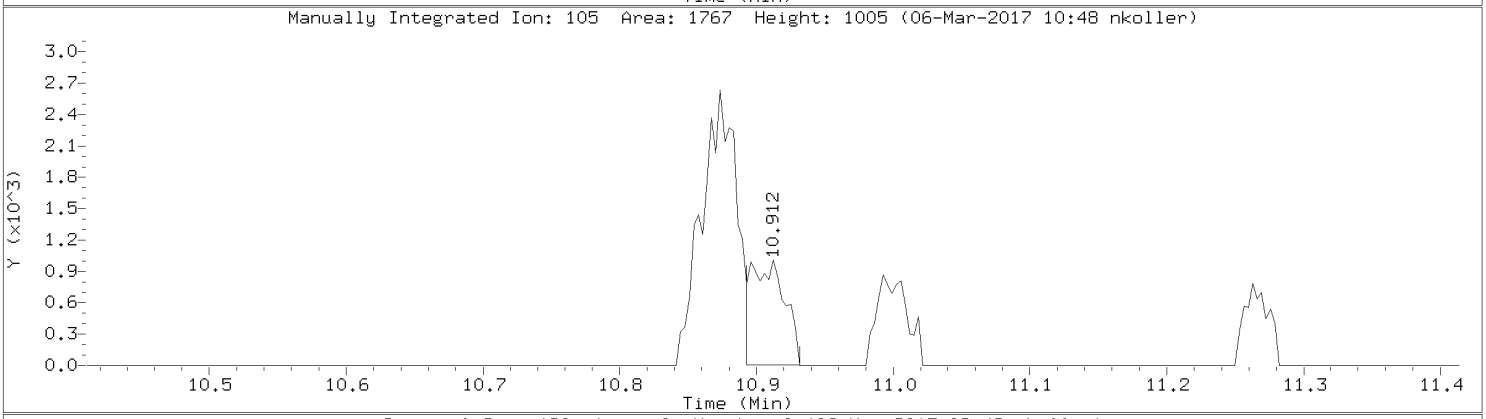
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06417.D
Injection Date: 05-MAR-2017 17:17
Instrument: 10airB.i
Lab Sample ID: 10379458016

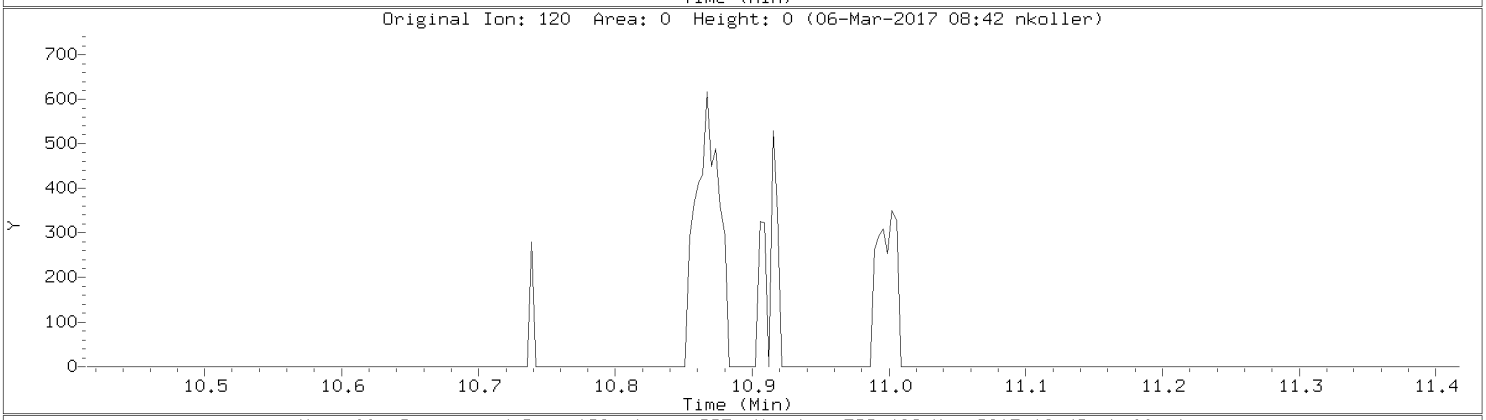


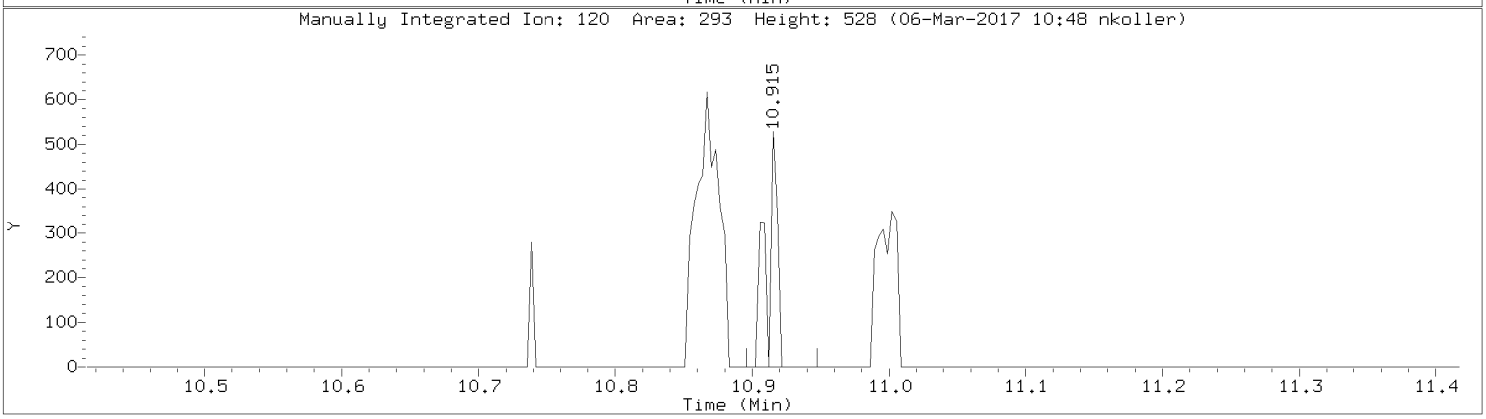
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06417.D
Injection Date: 05-MAR-2017 17:17
Instrument: 10airB.i
Lab Sample ID: 10379458016

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

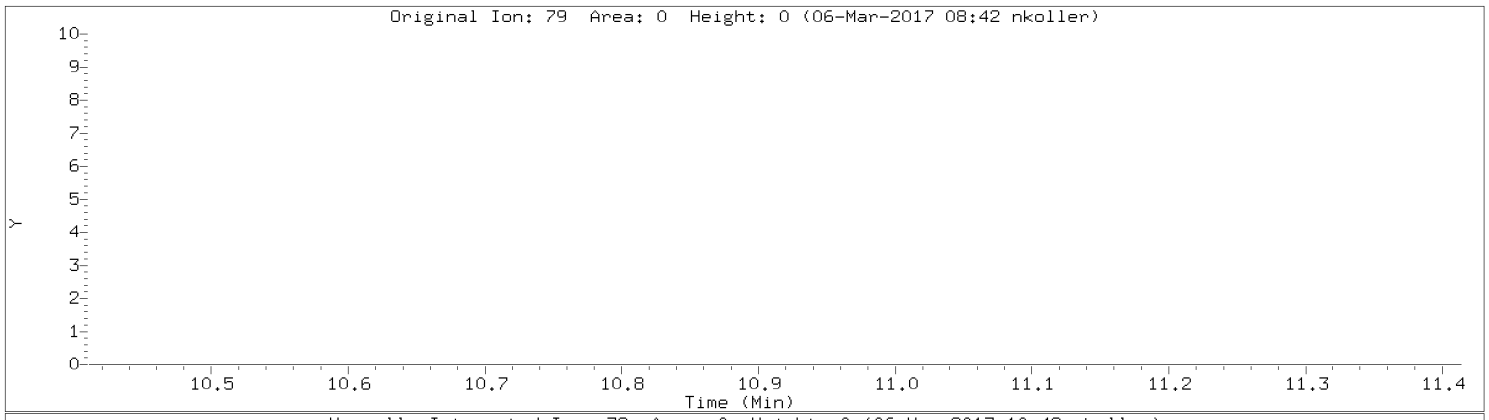


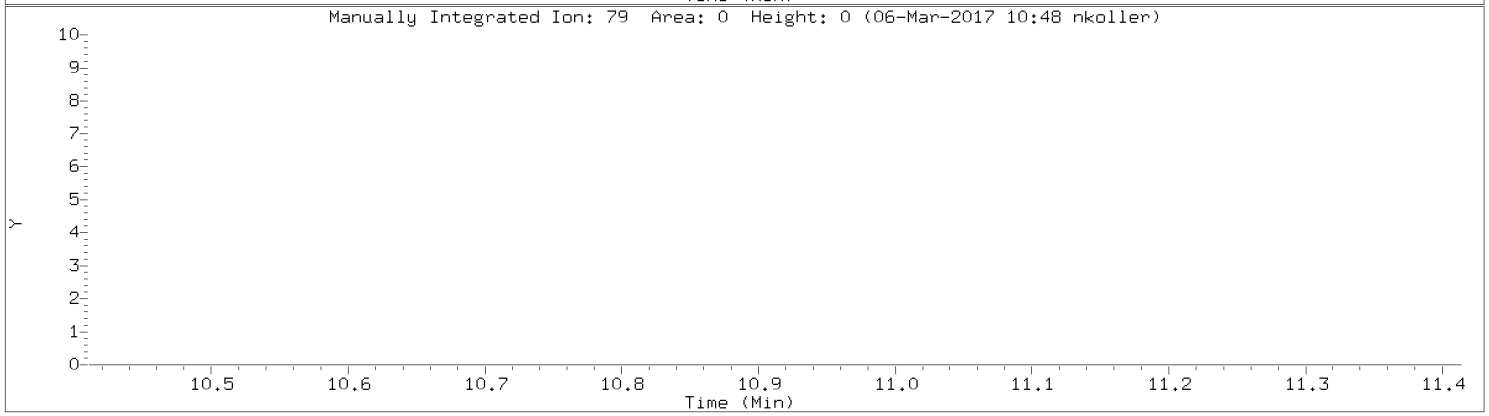






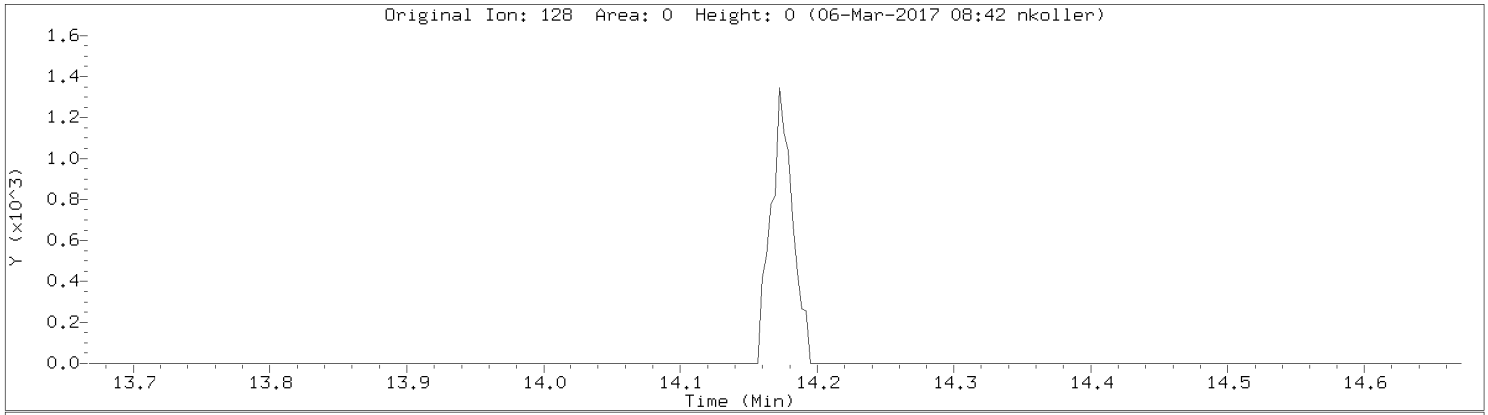
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06417.D
Injection Date: 05-MAR-2017 17:17
Instrument: 10airB.i
Lab Sample ID: 10379458016

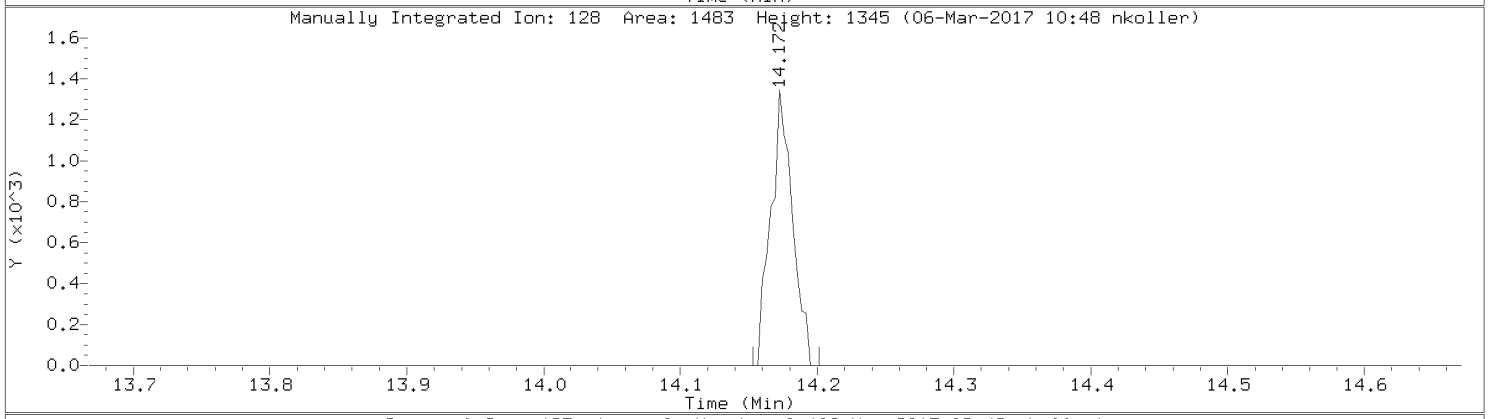


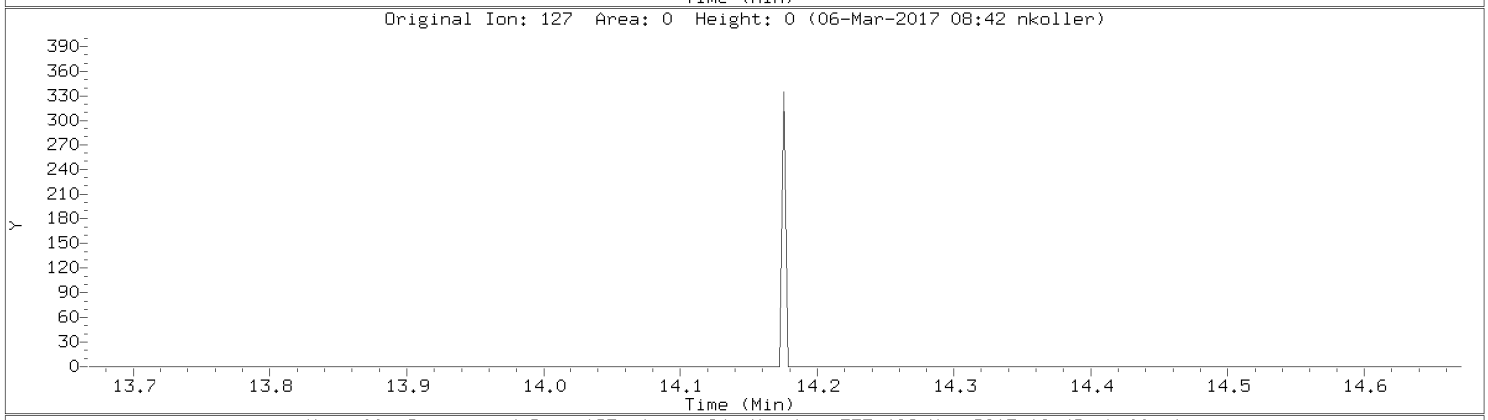


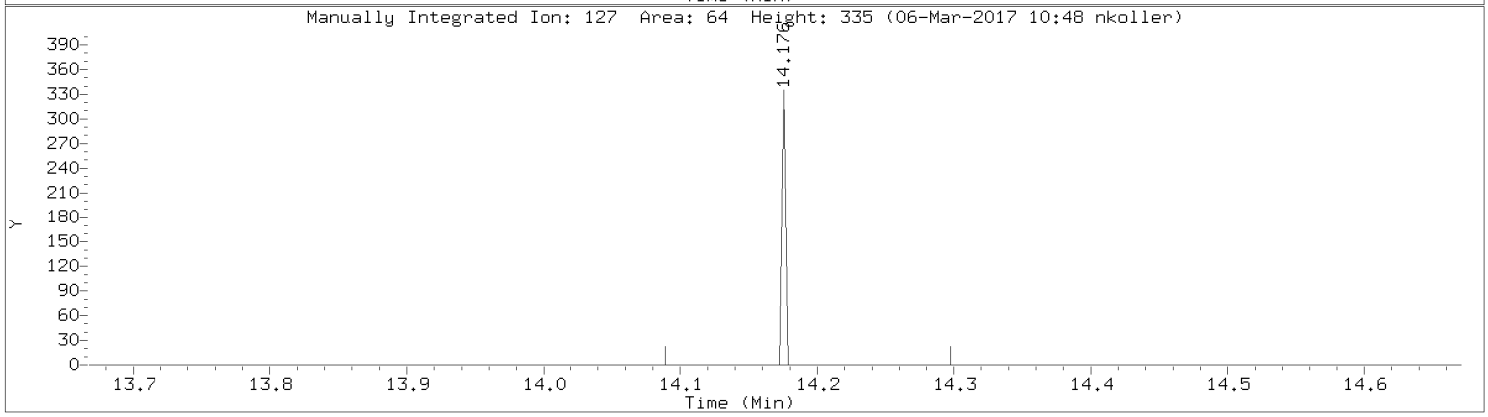
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06417.D
Injection Date: 05-MAR-2017 17:17
Instrument: 10airB.i
Lab Sample ID: 10379458016

Compound: Naphthalene
CAS Number: 91-20-3









Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Level 02: all \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Level 03: all \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Level 04: all \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Level 05: all \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Level 06: all \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Level 07: all \\192.168.10.12\chem\10airB.i\030217.b\06115.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	1604	3252	3232	5096	104607	+++++	+++++	LINR	-0.00090	0.07460		0.99641
2 1,1-Difluoroethane	0.04907	0.06383	0.05871	0.05580	0.06051	0.05847	0.06399	AVRG		0.05863		8.77337
3 Chlorodifluoromethane	246	740	2020	3964	41204	80199	+++++	LINR	0.00012	0.02798		0.99946
4 Propylene	+++++	5938	12525	24954	98681	197124	287080	LINR	0.00470	0.06927		0.99648

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	5463 +++++	9737	20944	41132	413909	810812	LINR	0.00223	0.28189		0.99963
6 Chloromethane	0.11898	0.12708	0.10813	0.10743	0.11466	0.11047					
	0.11752						AVRG		0.11490		6.08607
7 Dichlorotetrafluoroethane	0.28412	0.30889	0.27070	0.26600	0.27057	0.26389					
	0.27923						AVRG		0.27763		5.58743
8 Vinyl chloride	0.09509	0.10099	0.09950	0.09199	0.10191	0.09874					
	0.10655						AVRG		0.09925		4.75711
9 1,3-Butadiene	0.05391	0.07556	0.07312	0.07192	0.07709	0.07383					
	0.08059						AVRG		0.07229		11.89494
10 Bromomethane	0.08947	0.09822	0.08330	0.09096	0.09309	0.09088					
	0.09682						AVRG		0.09182		5.39696
11 Chloroethane	0.03819	0.05297	0.04520	0.04372	0.04546	0.04563					
	0.04831						AVRG		0.04564		9.80664

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.03522	0.04042	0.03424	0.03385	0.03683	0.03737						
	0.03928							AVRG		0.03674		6.78934
13 Vinyl Bromide	0.08975	0.10765	0.08918	0.09053	0.09716	0.09296						
	0.09853							AVRG		0.09511		6.95676
14 Isopentane	2027	3504	8126	19900	145015	281297						
	397743							LINR	0.00137	0.09936		0.99946
15 Freon 123	3166	6319	15648	16103	129273	313230						
	415076							LINR	0.00086	0.10477		0.99707
16 Trichlorofluoromethane	0.26982	0.32357	0.26730	0.26491	0.26724	0.25660						
	0.26965							AVRG		0.27416		8.11471
17 Acrolein	775	1831	4758	9510	138213	268448						
	385253							QUAD	-0.00070	0.03680	0.00028	0.99942
18 Acetone	0.18064	0.18872	0.15744	0.15292	0.14823	0.14001						
	0.14269							AVRG		0.15867		11.88329

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
19 Isopropyl Alcohol	0.15763	0.18004	0.16031	0.15685	0.16644	0.15379					
	0.15766						AVRG		0.16182		5.52630
20 1,1-Dichloroethene	0.15042	0.18079	0.15074	0.15557	0.16140	0.15494					
	0.16226						AVRG		0.15945		6.57851
21 Acrylonitrile	0.06401	0.07958	0.07178	0.06963	0.07949	0.07360					
	0.07512						AVRG		0.07332		7.53853
22 Freon 113	0.20290	0.23676	0.21541	0.21019	0.20544	0.18768					
	0.19083						AVRG		0.20703		7.93831
23 Methyl Acetate	0.24600	0.28365	0.24125	0.23673	0.24529	0.22152					
	0.21654						AVRG		0.24157		9.03208
24 Tert Butyl Alcohol (TBA)	0.20789	0.23454	0.21267	0.20927	0.21143	0.19109					
	0.18922						AVRG		0.20802		7.28573
25 Methylene chloride	0.12486	0.12863	0.11364	0.10974	0.10908	0.09990					
	0.09808						AVRG		0.11199		10.29977

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
26 Allyl Chloride	998	2156	5091	11220	140726	270021					
	360233						QUAD	-0.00091	0.04080	-0.00057	0.99986
27 Carbon Disulfide	0.17986	0.19150	0.20428	0.20601	0.23438	0.22813					
	0.23219						AVRG		0.21091		10.07488
28 trans-1,2-dichloroethene	0.07503	0.08339	0.09494	0.09061	0.09728	0.09169					
	0.09329						AVRG		0.08946		8.62620
29 Methyl Tert Butyl Ether	0.25867	0.26679	0.26248	0.25662	0.25690	0.24424					
	0.23949						AVRG		0.25503		3.82490
30 Vinyl Acetate	+++++	4581	11738	24341	385061	772513					
	1072670						QUAD	-0.00502	0.27169	0.00039	0.99985
31 1,1-Dichloroethane	0.16713	0.17331	0.17791	0.16887	0.17978	0.17421					
	0.17860						AVRG		0.17426		2.80642
33 Methyl Ethyl Ketone	413	1030	3113	6401	65846	136332					
	188259						LINR	-0.00035	0.04762		0.99995

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.15219	0.17180	0.15757	0.15809	0.16476	0.15753					
	0.15431						AVRG		0.15946		4.19713
35 Di-isopropyl Ether	0.29073	0.32953	0.30665	0.31510	0.31267	0.30686					
	0.30329						AVRG		0.30926		3.84474
36 Ethyl Acetate	0.18718	0.20821	0.20219	0.20145	0.22630	0.20681					
	0.20449						AVRG		0.20523		5.64392
37 cis-1,2-Dichloroethene	0.08790	0.09791	0.09585	0.10208	0.11359	0.10201					
	0.10033						AVRG		0.09995		7.76168
38 Ethyl Tert-Butyl Ether	0.33357	0.32421	0.30640	0.35487	0.34762	0.31600					
	0.28396						AVRG		0.32381		7.54289
39 Chloroform	0.19920	0.19789	0.20212	0.22254	0.22603	0.20669					
	0.19573						AVRG		0.20717		5.90539
40 Tetrahydrofuran	0.09352	0.11602	0.11217	0.11030	0.11359	0.11356					
	0.11599						AVRG		0.11074		7.09391

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.22737	0.25316	0.24262	0.24336	0.25641	0.24012					
	0.24303						AVRG		0.24372		3.86416
42 1,2-Dichloroethane	0.18128	0.20743	0.18724	0.17899	0.18979	0.17568					
	0.17382						AVRG		0.18489		6.21802
43 Benzene	0.31171	0.32607	0.33236	0.31269	0.33860	0.32105					
	0.31508						AVRG		0.32251		3.19963
44 Carbon tetrachloride	0.20909	0.24599	0.24225	0.23334	0.27264	0.25235					
	0.24937						AVRG		0.24358		7.96219
45 Cyclohexane	0.16443	0.16627	0.16904	0.16158	0.16763	0.15400					
	0.14717						AVRG		0.16145		4.97615
46 Tert Amyl Methyl Ether	18270	20967	35082	56548	445708	890854					
	1221003						LINR	0.00956	0.30539		0.99998
48 2,2,4-Trimethylpentane	0.50958	0.53058	0.50192	0.51218	0.51793	0.47603					
	0.44850						AVRG		0.49953		5.61871

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
49 Heptane	0.16777	0.18321	0.17622	0.17889	0.18730	0.18280						
	0.18526						AVRG		0.18021		3.68106	
50 1,2-Dichloropropane	0.10497	0.12424	0.11629	0.11669	0.12070	0.11726						
	0.11759						AVRG		0.11682		5.08339	
51 Trichloroethene	0.15582	0.17814	0.16982	0.16813	0.17159	0.16617						
	0.16646						AVRG		0.16802		4.01609	
52 Methyl methacrylate	0.09772	0.11462	0.09998	0.10330	0.11687	0.11624						
	0.11625						AVRG		0.10928		7.82967	
53 1,4-Dioxane	+++++	0.07571	0.07103	0.06920	0.07879	0.07867						
	0.07869						AVRG		0.07535		5.65122	<-
54 Bromodichloromethane	0.21158	0.24802	0.22534	0.22917	0.25791	0.24572						
	0.24880						AVRG		0.23808		6.87954	
55 Methylcyclohexane	880	2326	5684	12229	132902	266242						
	381479						QUAD	0.00004	0.08838	0.00263	0.99977	

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
						30.0000 Level 7					
56 Methyl Isobutyl Ketone	0.22195	0.26034	0.23797	0.24491	0.26557	0.24586					
	0.24523						AVRG		0.24597		5.82913
57 cis-1,3-Dichloropropene	1869	4624	11439	23875	285919	572916					
	802416						LINR	-0.00192	0.20261		0.99982
58 trans-1,3-Dichloropropene	1570	3360	9313	20281	268282	540240					
	767727						QUAD	-0.00158	0.18207	0.00413	0.99982
60 1,1,2-Trichloroethane	0.13072	0.14804	0.13627	0.12746	0.13595	0.12970					
	0.13071						AVRG		0.13412		5.17316
61 Toluene	0.38916	0.44540	0.40158	0.39773	0.40896	0.39760					
	0.38675						AVRG		0.40388		4.89194
62 Methyl Butyl Ketone	0.28663	0.29631	0.30585	0.31073	0.36206	0.34067					
	0.30862						AVRG		0.31584		8.34206
63 n-Octane	0.29207	0.33524	0.34580	0.35107	0.38006	0.35999					
	0.33009						AVRG		0.34204		8.05009

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	2474 +++++	5941	14525	31027	385835	768082		LINR	-0.00176	0.39596		0.99963
65 1,2-Dibromoethane	0.29331	0.32167	0.31961	0.32276	0.34926	0.33384		AVRG		0.32276		5.24361
	0.31887											
66 Tetrachloroethene	0.34391	0.39141	0.35716	0.34645	0.34946	0.33288		AVRG		0.34724		7.15405
	0.30942											
68 Chlorobenzene	0.50757	0.49302	0.50324	0.47975	0.51011	0.49597		AVRG		0.49598		2.39875
	0.48219											
69 Ethyl Benzene	0.63105	0.69350	0.75373	0.75767	0.80239	0.76885		AVRG		0.73550		7.67448
	0.74134											
70 m&p-Xylene	0.54709	0.56056	0.58709	0.58750	0.63367	0.58090		AVRG		0.57729		5.32940
	0.54419											
71 n-Nonane	0.23991	0.25232	0.30355	0.32308	0.35571	0.32001		AVRG		0.29775		13.71498
	0.28968											

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
72 Bromoform	1731 / 1008290	3665	10681	23365	367770	705920	QUAD	-0.00691	0.40720	-0.02023	0.99982
73 Styrene	3030 / 1314898	6483	19327	41273	465333	918818	QUAD	-0.00399	0.51302	-0.02071	0.99999
74 o-Xylene	0.54284 / 0.58304	0.55619	0.58404	0.60209	0.63683	0.60612	AVRG		0.58731		5.38409
75 1,1,2,2-Tetrachloroethane	0.28133 / 0.34089	0.29909	0.30949	0.31566	0.36746	0.35145	AVRG		0.32362		9.48066
76 Isopropylbenzene	0.86950 / 0.78729	0.84572	0.82595	0.80512	0.86425	0.82068	AVRG		0.83122		3.64806
77 N-Propylbenzene	5321 / +++++	12256	35990	77311	929423	1826015	LINR	-0.00241	0.94285		0.99939
78 4-Ethyltoluene	4421 / 2322755	10605	30251	69266	815307	1614385	QUAD	-0.00900	0.89638	-0.03311	0.99998

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	4235	9860	28097	61066	689551	1370583					
	+++++						LINR	-0.00130	0.70575		0.99966
80 n-Decane	1450	3858	11603	27313	350331	729038					
	1038909						LINR	-0.00620	0.26167		0.99940
81 Tert-Butyl Benzene	0.56680	0.61270	0.67584	0.68138	0.74872	0.70347					
	0.65929						AVRG		0.66403		8.96869
82 1,2,4-Trimethylbenzene	0.49112	0.54574	0.57970	0.62431	0.68706	0.63694					
	0.59336						AVRG		0.59403		10.76645
83 1,3-Dichlorobenzene	2849	6190	16619	35362	423299	815126					
	+++++						LINR	0.00042	0.42172		0.99883
84 Sec- Butylbenzene	0.69229	0.74745	0.81958	0.87314	0.98355	0.88644					
	0.82157						AVRG		0.83200		11.46062
86 Benzyl Chloride	+++++	3597	9078	22499	427013	897595					
	1343950						QUAD	-0.01363	0.46373	0.00022	0.99991

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
87 1,4-Dichlorobenzene	0.34312	0.35215	0.36805	0.38523	0.44083	0.42325					
	0.41139						AVRG		0.38915		9.54420
88 p-Isopropyltoluene	4750	11000	31230	67948	793111	1535893					
	+++++						LINR	0.00032	0.79402		0.99902
89 1,2,3-Trimethylbenzene	0.49291	0.51053	0.57370	0.59567	0.68477	0.63533					
	0.61245						AVRG		0.58648		11.54196
90 1,2-Dichlorobenzene	2466	5537	14338	32463	395633	776749					
	1131959						QUAD	-0.00389	0.42770	-0.01328	0.99994
91 N-Butylbenzene	2805	7061	20942	47311	612616	1214291					
	1755538						LINR	0.00139	0.60841		0.99917
92 1,2-Dibromo-3-Chloropropane	387	957	3096	7071	154681	319932					
	467876						LINR	-0.00318	0.16248		0.99959
93 1,2,4-Trichlorobenzene	+++++	513	2447	7389	156379	358428					
	553071						QUAD	-0.00633	0.16753	0.00809	0.99974

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	645	1944	7018	19022	369664	797177					
	1218782						LINR	-0.01424	0.41809		0.99958
95 Hexachlorobutadiene	0.13792	0.16150	0.17377	0.18747	0.19308	0.18620					
	0.17473						AVRG		0.17353		10.91245
$ 32 Hexane-d14(S)	0.31889	0.30929	0.31483	0.31375	0.31188	0.32281					
	0.33562						AVRG		0.31815		2.79904
$ 59 Toluene-d8 (S)	0.86049	0.94509	0.86662	0.86999	0.88227	0.89817					
	0.94256						AVRG		0.89503		3.96718
$ 85 1,4-dichlorobenzene-d4 (S)	0.49310	0.47520	0.50594	0.53279	0.61007	0.62504					
	0.61393						AVRG		0.55087		11.57446

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Average %RSD Results.	
Calculated Average %RSD =	6.97496
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Lab Smp Id: cal1
Inj Date : 02-MAR-2017 11:19
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 15:58 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.912	2.912	(0.520)	1604	0.10000	0.273
2	1,1-Difluoroethane	65	2.986	2.986	(0.534)	690	0.10000	0.0837(Q)
3	Chlorodifluoromethane	67	3.012	3.012	(0.538)	246	0.10000	0.0208(aQM)
4	Propylene	41	3.005	3.005	(0.537)	3613	0.10000	(aQ)
5	Dichlorodifluoromethane	85	3.037	3.037	(0.543)	5463	0.10000	0.0585
6	Chloromethane	50	3.137	3.137	(0.561)	1673	0.10000	0.104(M)
7	Dichlorotetrafluoroethane	85	3.137	3.137	(0.561)	3995	0.10000	0.102
8	Vinyl chloride	62	3.205	3.205	(0.573)	1337	0.10000	0.0958(M)
9	1,3-Butadiene	54	3.250	3.250	(0.581)	758	0.10000	0.0746(Q)
10	Bromomethane	94	3.388	3.388	(0.605)	1258	0.10000	0.0974
11	Chloroethane	64	3.439	3.439	(0.615)	537	0.10000	0.0837(QM)
12	Ethanol	45	3.558	3.558	(0.636)	2476	0.50000	0.479
13	Vinyl Bromide	106	3.555	3.555	(0.635)	1262	0.10000	0.0944
14	Isopentane	43	3.558	3.558	(0.636)	2027	0.10000	0.00751(aQ)
15	Freon 123	83	3.578	3.578	(0.639)	3166	0.10000	0.133
16	Trichlorofluoromethane	101	3.642	3.642	(0.651)	3794	0.10000	0.0984
17	Acrolein	56	3.671	3.671	(0.656)	775	0.25000	0.341
18	Acetone	43	3.716	3.716	(0.664)	12700	0.50000	0.569
19	Isopropyl Alcohol	45	3.777	3.777	(0.675)	11082	0.50000	0.487
20	1,1-Dichloroethene	61	3.877	3.877	(0.693)	2115	0.10000	0.0943
21	Acrylonitrile	53	3.906	3.906	(0.698)	2250	0.25000	0.218
22	Freon 113	101	3.918	3.918	(0.700)	2853	0.10000	0.0980
23	Methyl Acetate	43	3.951	3.951	(0.706)	3459	0.10000	0.102

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.970	3.970	(0.709)	7308	0.25000	0.250(Q)
	25 Methylene chloride	49	3.970	3.970	(0.709)	8778	0.50000	0.557(M)
	26 Allyl Chloride	76	3.976	3.976	(0.710)	998	0.25000	0.397(Q)
	27 Carbon Disulfide	76	4.092	4.092	(0.731)	2529	0.10000	0.0853(M)
	28 trans-1,2-dichloroethene	96	4.230	4.230	(0.756)	1055	0.10000	0.0839(Q)
	29 Methyl Tert Butyl Ether	73	4.308	4.308	(0.770)	9093	0.25000	0.254
	30 Vinyl Acetate	43	4.372	4.372	(0.781)	2236	0.10000	0.243(M)
	31 1,1-Dichloroethane	63	4.375	4.375	(0.782)	2350	0.10000	0.0959(M)
$	32 Hexane-d14(S)	66	4.475	4.475	(0.800)	448392	10.0000	10.0
	33 Methyl Ethyl Ketone	72	4.565	4.565	(0.816)	413	0.10000	0.135(QM)
	34 n-Hexane	57	4.571	4.571	(0.817)	2140	0.10000	0.0954(QM)
	35 Di-isopropyl Ether	45	4.597	4.597	(0.821)	4088	0.10000	0.0940
	36 Ethyl Acetate	43	4.722	4.722	(0.844)	2632	0.10000	0.0912(QM)
	37 cis-1,2-Dichloroethene	96	4.697	4.697	(0.839)	1236	0.10000	0.0879(M)
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.863)	11726	0.25000	0.258
	39 Chloroform	83	4.803	4.803	(0.858)	2801	0.10000	0.0962
	40 Tetrahydrofuran	42	5.018	5.018	(0.897)	1315	0.10000	0.0845
	41 1,1,1-Trichloroethane	97	5.208	5.208	(0.930)	3197	0.10000	0.0933
	42 1,2-Dichloroethane	62	5.211	5.211	(0.931)	2549	0.10000	0.0980
	43 Benzene	78	5.446	5.446	(0.973)	4383	0.10000	0.0967
	44 Carbon tetrachloride	117	5.465	5.465	(0.976)	2940	0.10000	0.0858
	45 Cyclohexane	56	5.471	5.471	(0.978)	2312	0.10000	0.102(Q)
	46 Tert Amyl Methyl Ether	73	5.597	5.597	(1.000)	18270	0.10000	0.112(Q)
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1406108	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.754	(1.028)	17913	0.25000	0.255
	49 Heptane	43	5.877	5.877	(1.050)	2359	0.10000	0.0931
	50 1,2-Dichloropropane	63	5.951	5.951	(1.063)	1476	0.10000	0.0899
	51 Trichloroethene	130	5.973	5.973	(1.067)	2191	0.10000	0.0927
	52 Methyl methacrylate	69	6.044	6.044	(1.080)	1374	0.10000	0.0894
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	6.070	6.070	(1.084)	2975	0.10000	0.0889
	55 Methylcyclohexane	98	6.420	6.420	(1.147)	880	0.10000	0.0665(Q)
	56 Methyl Isobutyl Ketone	43	6.542	6.542	(1.169)	7802	0.25000	0.226
	57 cis-1,3-Dichloropropene	75	6.581	6.581	(1.176)	1869	0.10000	0.160
	58 trans-1,3-Dichloropropene	75	6.979	6.979	(1.247)	1570	0.10000	0.148
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	1209940	10.0000	9.61
	60 1,1,2-Trichloroethane	97	7.134	7.134	(1.275)	1838	0.10000	0.0975
	61 Toluene	91	7.147	7.147	(1.277)	5472	0.10000	0.0964
	62 Methyl Butyl Ketone	43	7.388	7.388	(0.855)	6401	0.25000	0.227
	63 n-Octane	43	7.577	7.577	(0.877)	2609	0.10000	0.0854
	64 Dibromochloromethane	129	7.674	7.674	(0.888)	2474	0.10000	0.114
	65 1,2-Dibromoethane	107	7.899	7.899	(0.914)	2620	0.10000	0.0909
	66 Tetrachloroethene	166	7.983	7.983	(0.924)	3072	0.10000	0.0990
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	893268	10.0000	
	68 Chlorobenzene	112	8.684	8.684	(1.005)	4534	0.10000	0.102
	69 Ethyl Benzene	91	8.928	8.928	(1.033)	5637	0.10000	0.0858
	70 m&p-Xylene	91	9.076	9.076	(1.051)	9774	0.20000	0.190
	71 n-Nonane	43	9.462	9.462	(1.095)	2143	0.10000	0.0806
	72 Bromoform	173	9.475	9.475	(1.097)	1731	0.10000	0.217
	73 Styrene	104	9.503	9.503	(1.100)	3030	0.10000	0.144
	74 o-Xylene	91	9.577	9.577	(1.109)	4849	0.10000	0.0924
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.138)	2513	0.10000	0.0869
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	7767	0.10000	0.105(M)
	77 N-Propylbenzene	91	10.741	10.741	(1.243)	5321	0.10000	0.0888(M)

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	4421	0.10000	0.156(M)
79	1,3,5-Trimethylbenzene	105	10.992	10.992	(1.272)	4235	0.10000	0.0855(M)
80	n-Decane	57	11.378	11.378	(2.033)	1450	0.10000	0.276(Q)
81	Tert-Butyl Benzene	119	11.494	11.494	(1.330)	5063	0.10000	0.0854
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	4387	0.10000	0.0827
83	1,3-Dichlorobenzene	146	11.790	11.790	(1.365)	2849	0.10000	0.0656
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	6184	0.10000	0.0832
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.372)	440469	10.0000	8.95
86	Benzyl Chloride	91	11.860	11.860	(1.373)	1753	0.10000	0.336(M)
87	1,4-Dichlorobenzene	146	11.883	11.883	(1.376)	3065	0.10000	0.0882(QM)
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	4750	0.10000	0.0630
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	4403	0.10000	0.0840
90	1,2-Dichlorobenzene	146	12.275	12.275	(1.421)	2466	0.10000	0.156
91	N-Butylbenzene	91	12.458	12.458	(1.442)	2805	0.10000	0.0288(a)
92	1,2-Dibromo-3-Chloropropane	157	12.902	12.902	(1.494)	387	0.10000	0.223(QM)
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	14.169	14.169	(1.640)	645	0.10000	0.358(M)
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	1232	0.10000	0.0795

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Report Date: 02-Mar-2017 15:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06109.D
Lab Smp Id: cal1
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

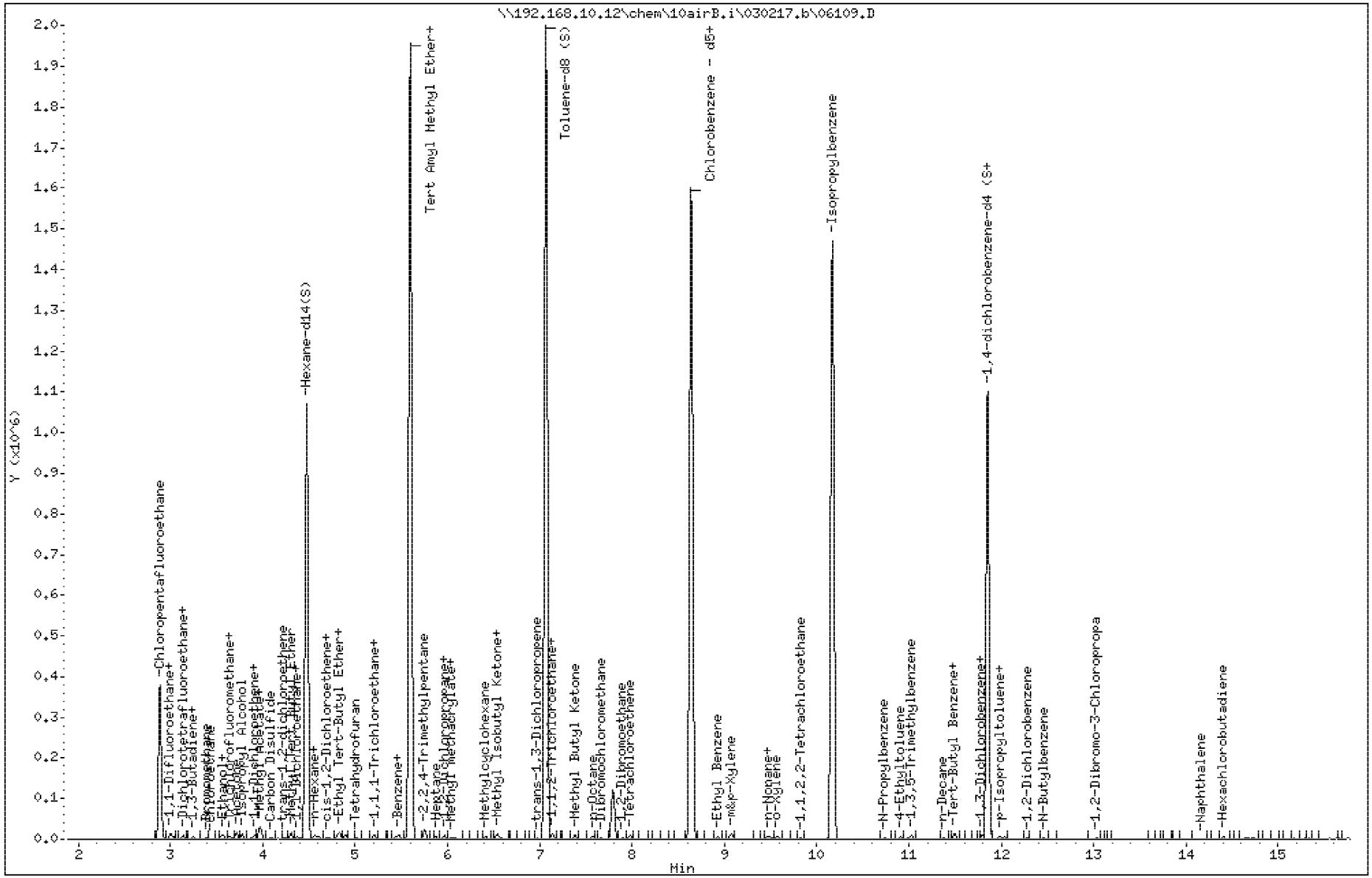
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1406108	-0.57
67 Chlorobenzene - d	951026	570616	1331436	893268	-6.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

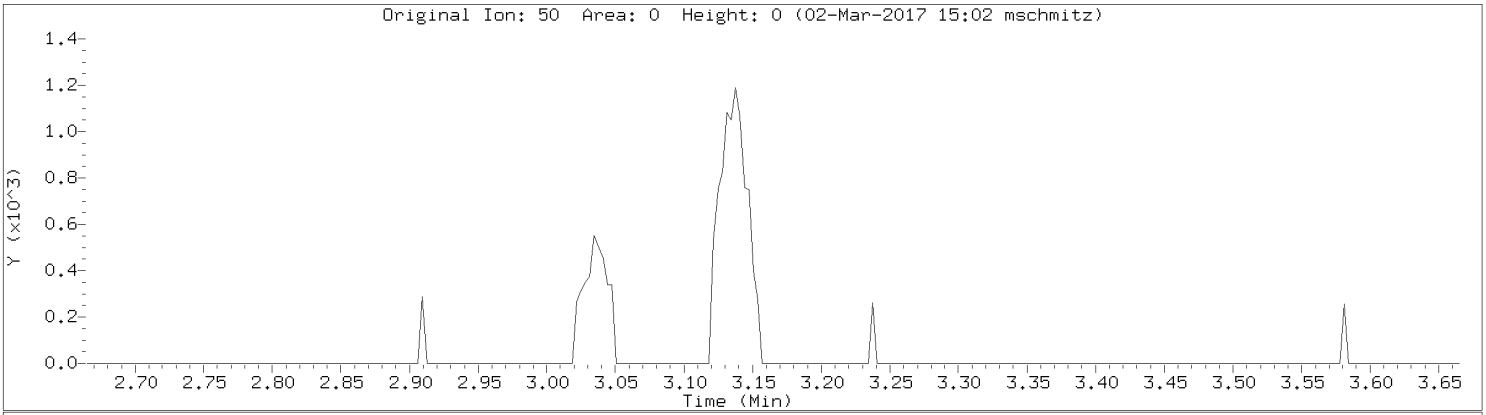
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Date : 02-MAR-2017 11:19
Client ID:
Sample Info:

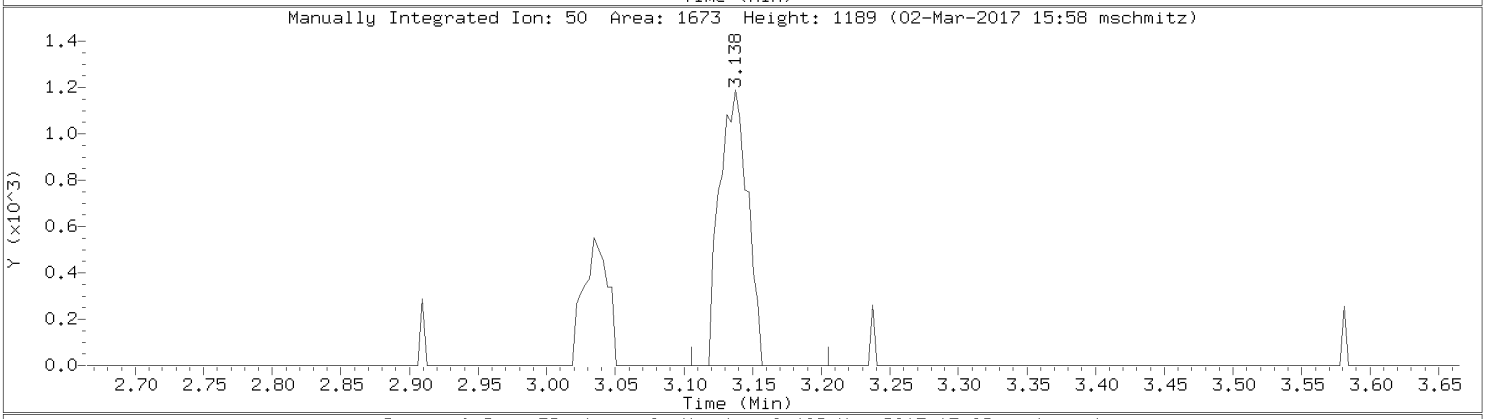
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

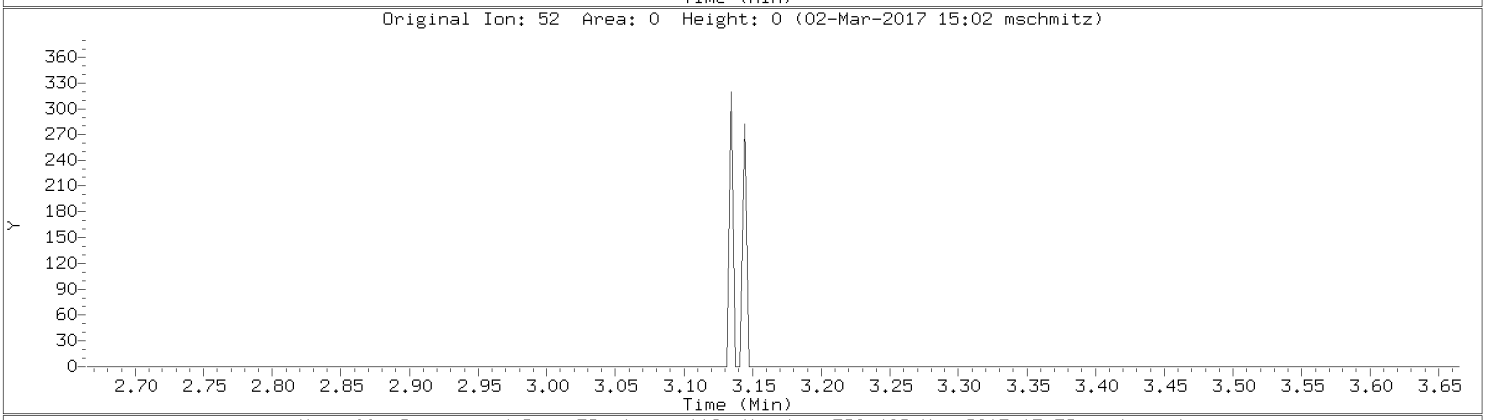


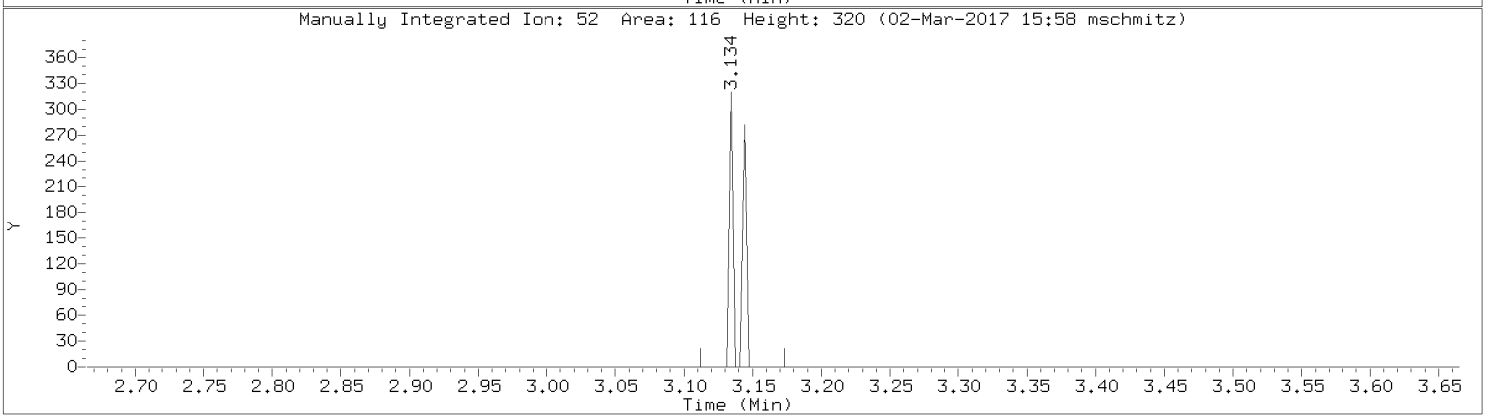
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chloromethane
CAS Number: 74-87-3



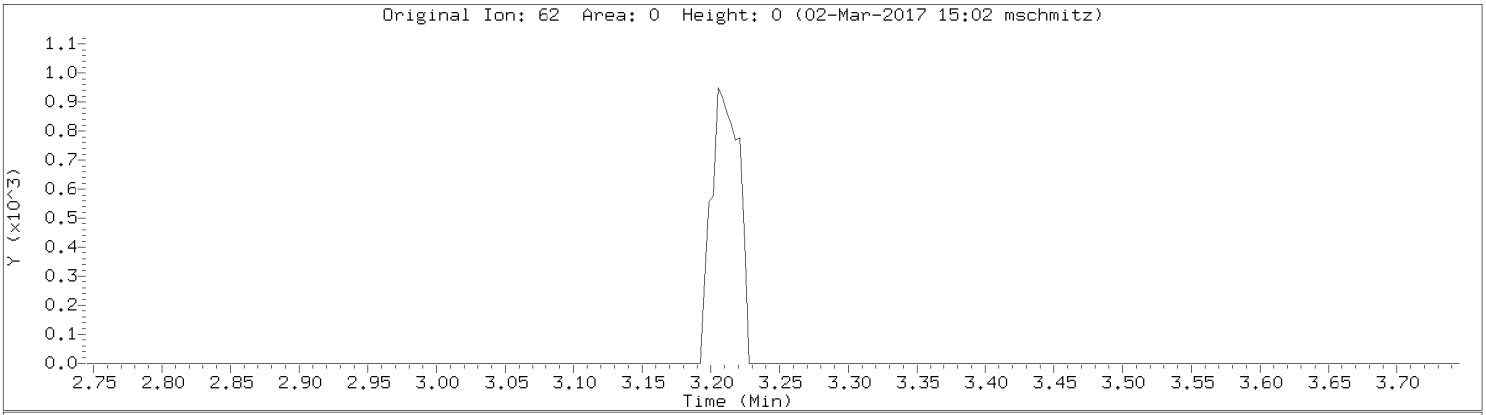


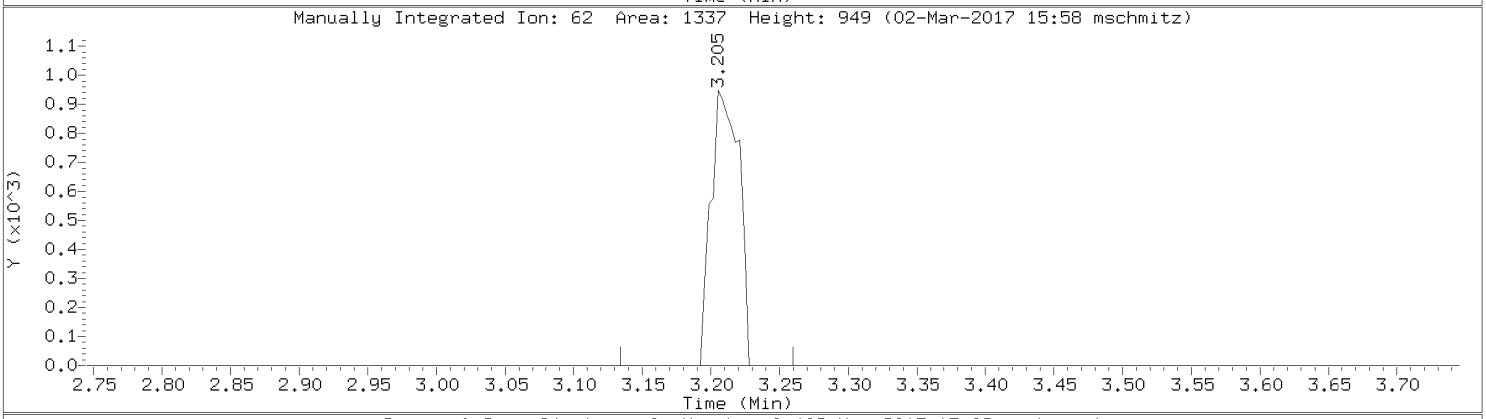


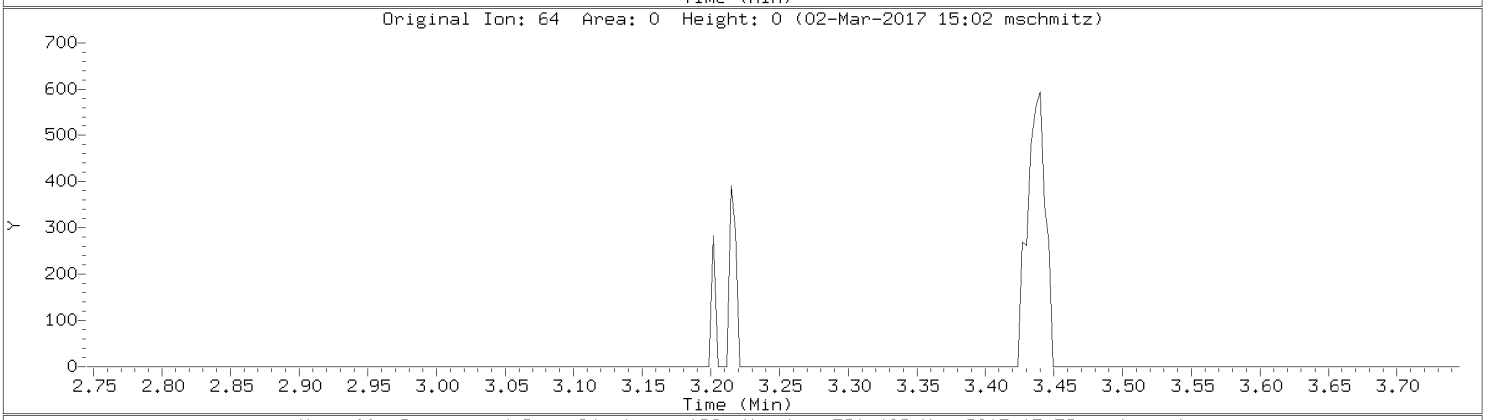


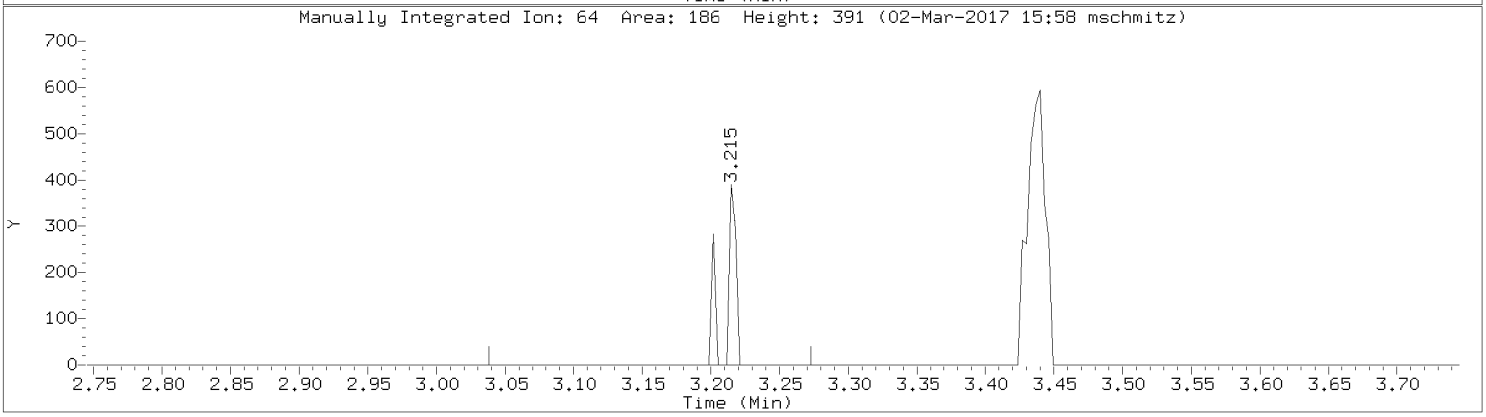
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Vinyl chloride
CAS Number: 75-01-4



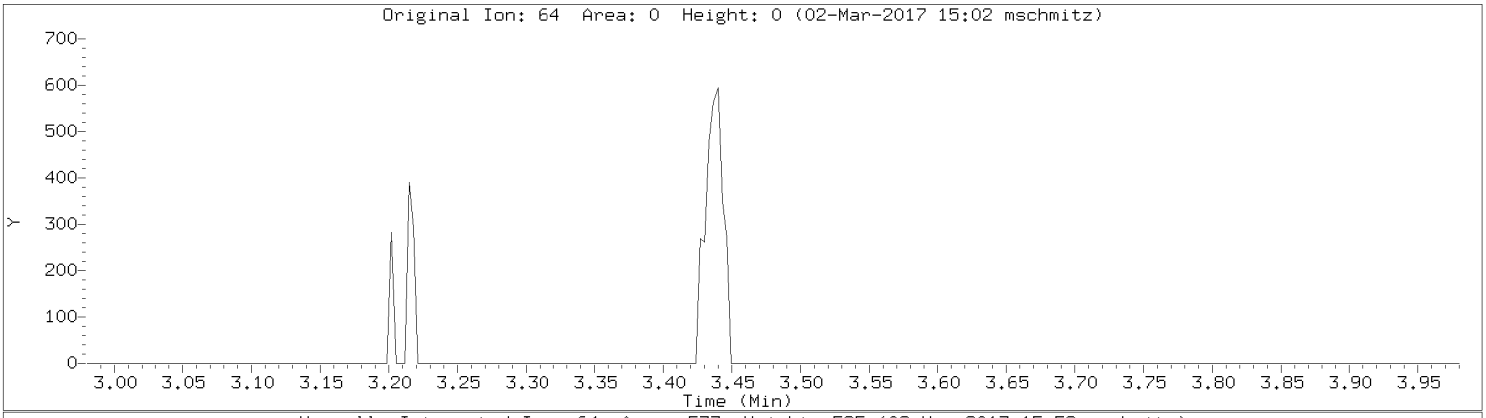


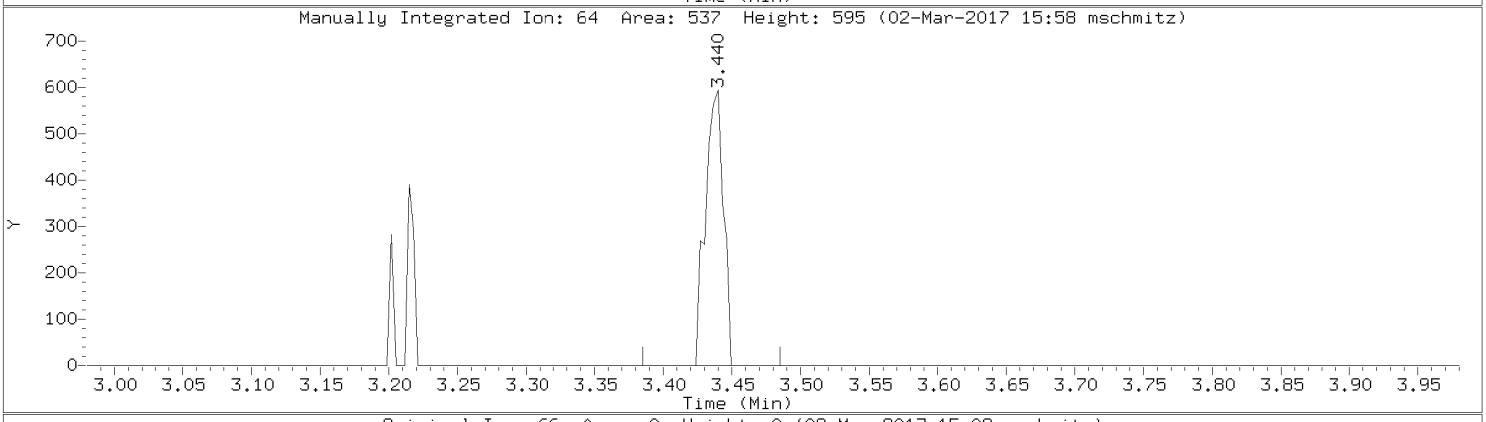


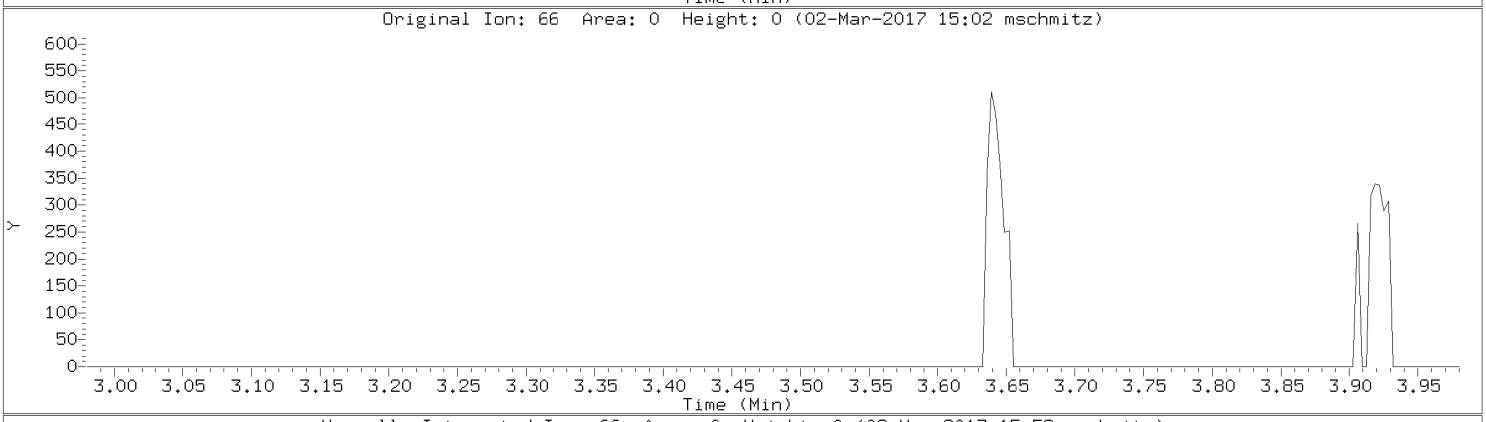


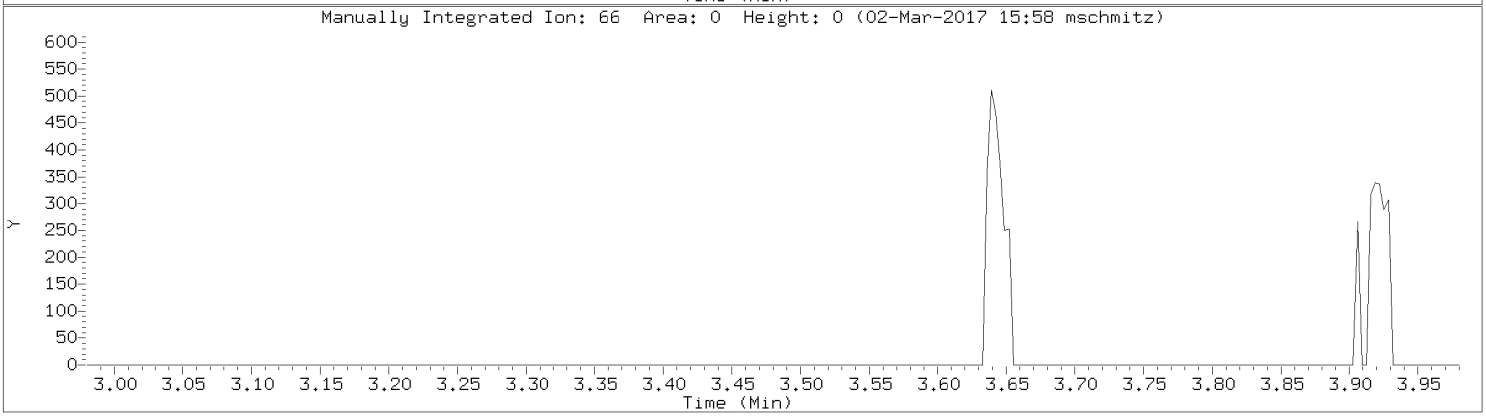
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chloroethane
CAS Number: 75-00-3



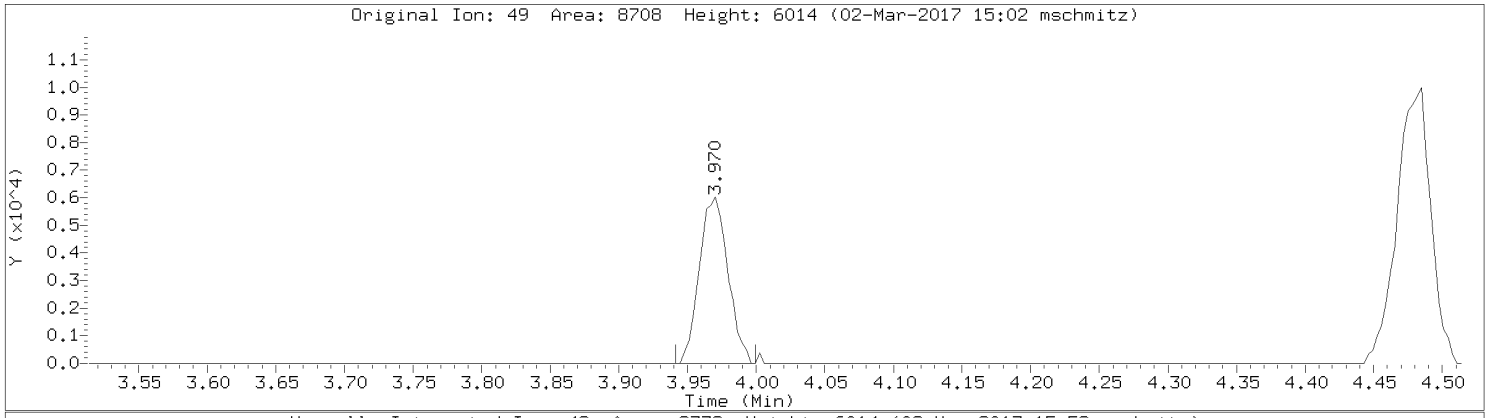


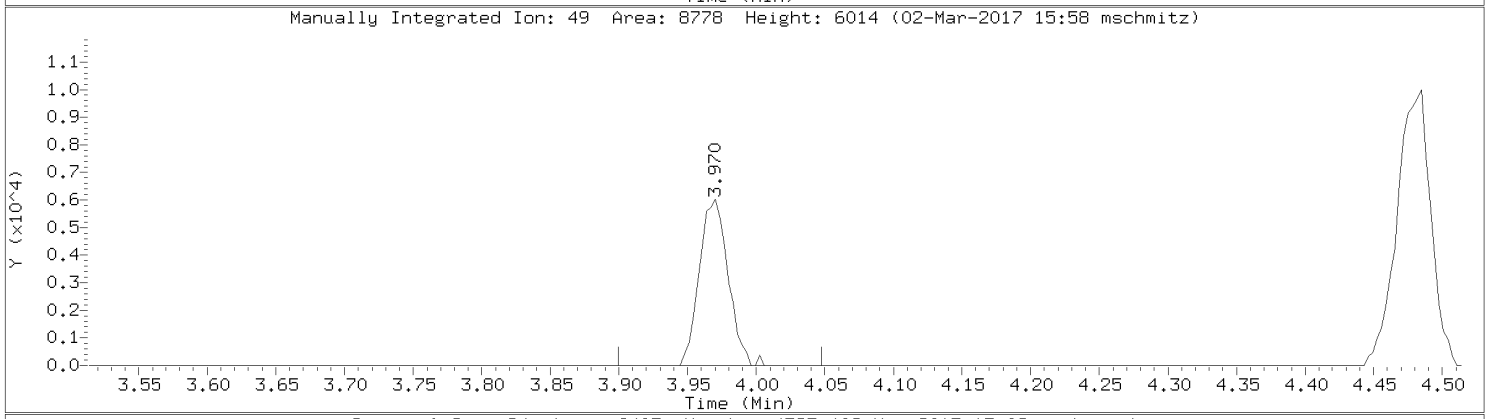


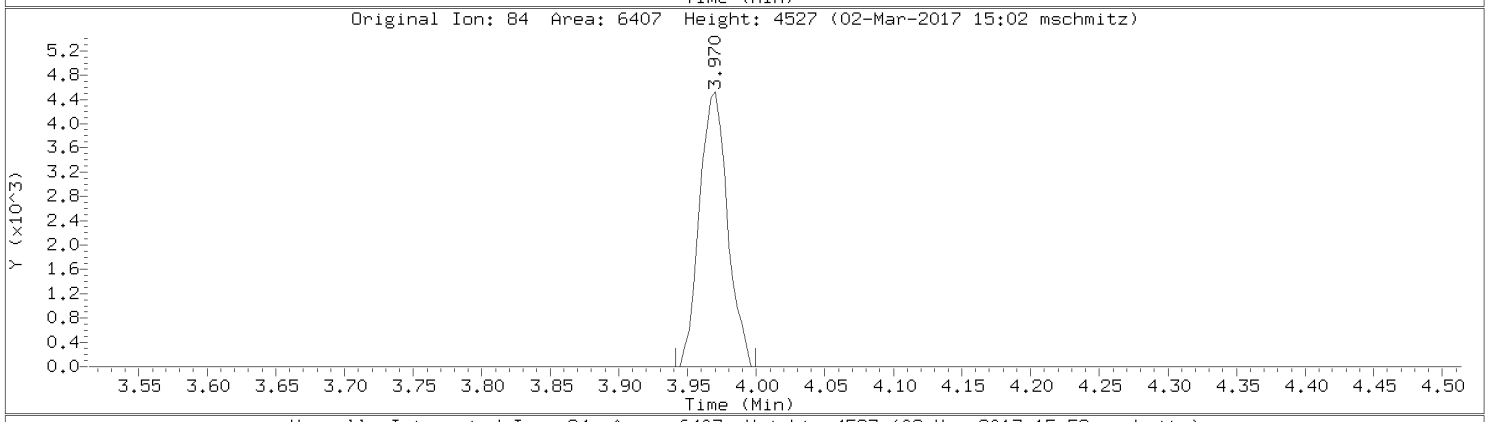


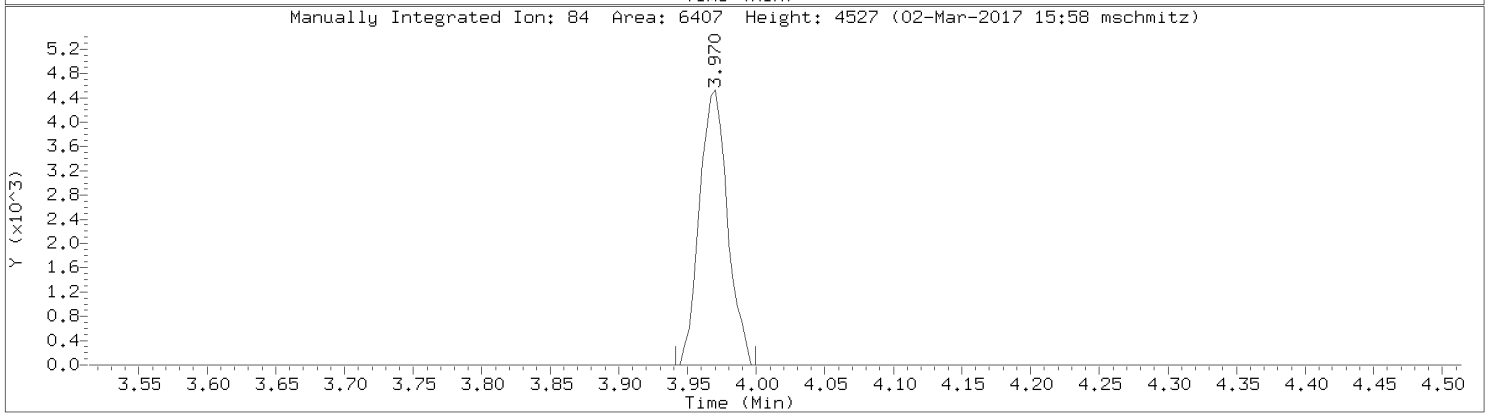
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Methylene chloride
CAS Number: 75-09-2

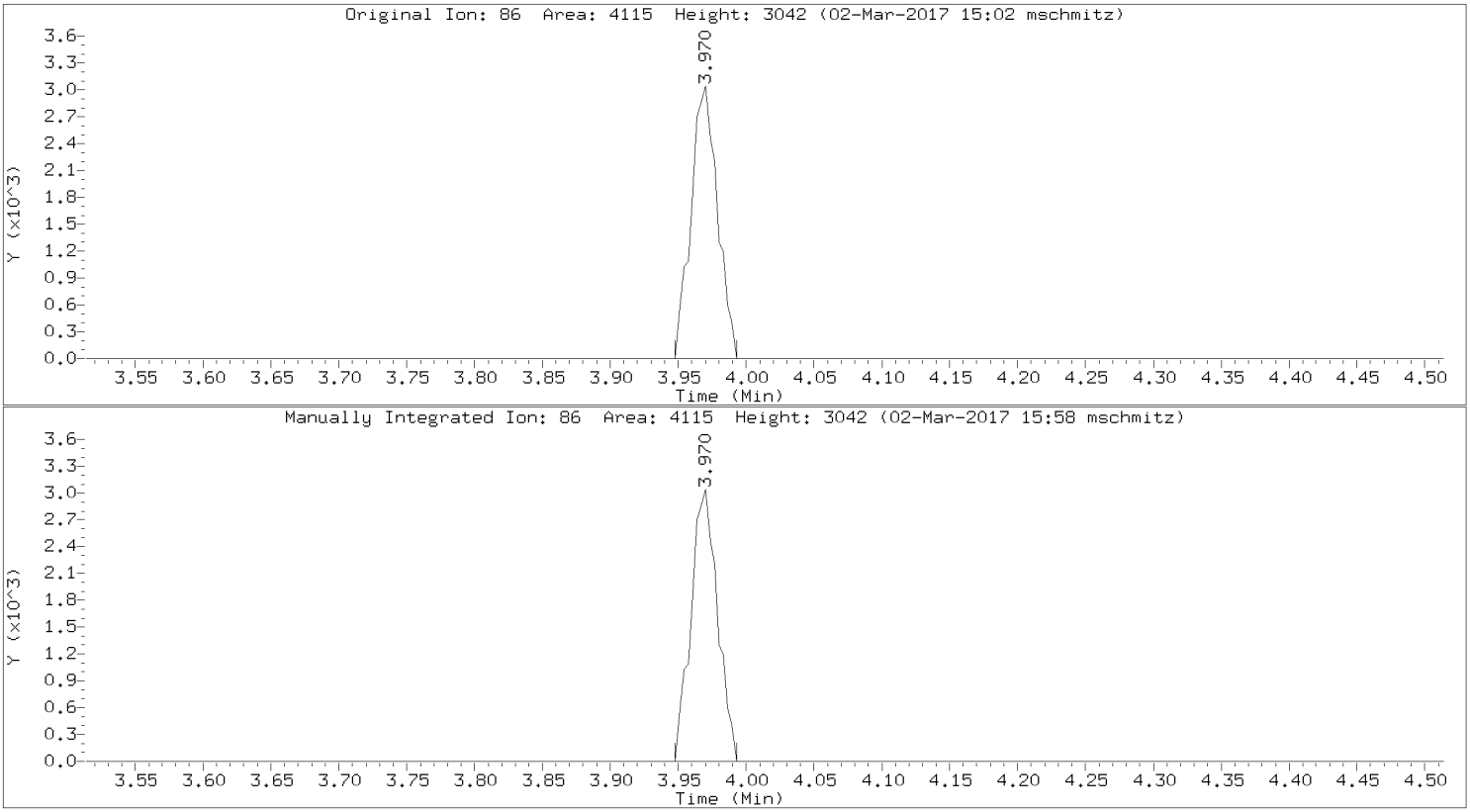






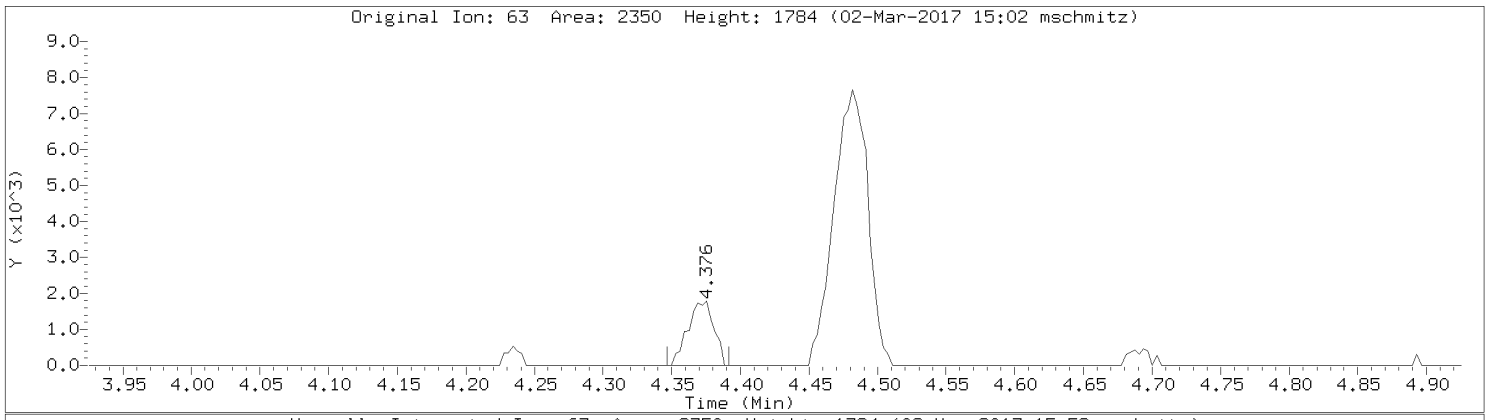


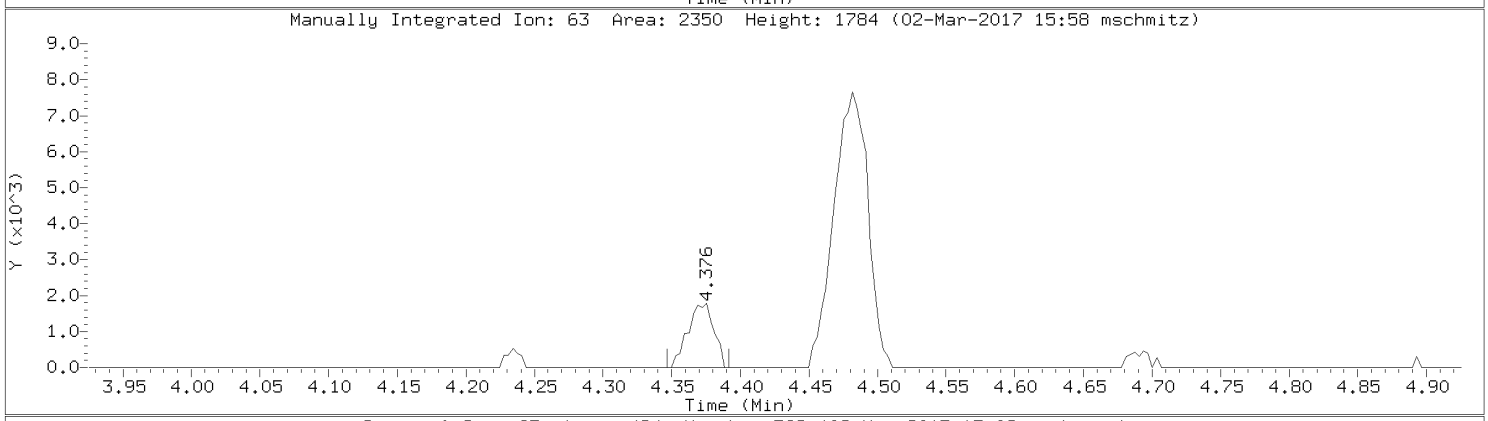
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

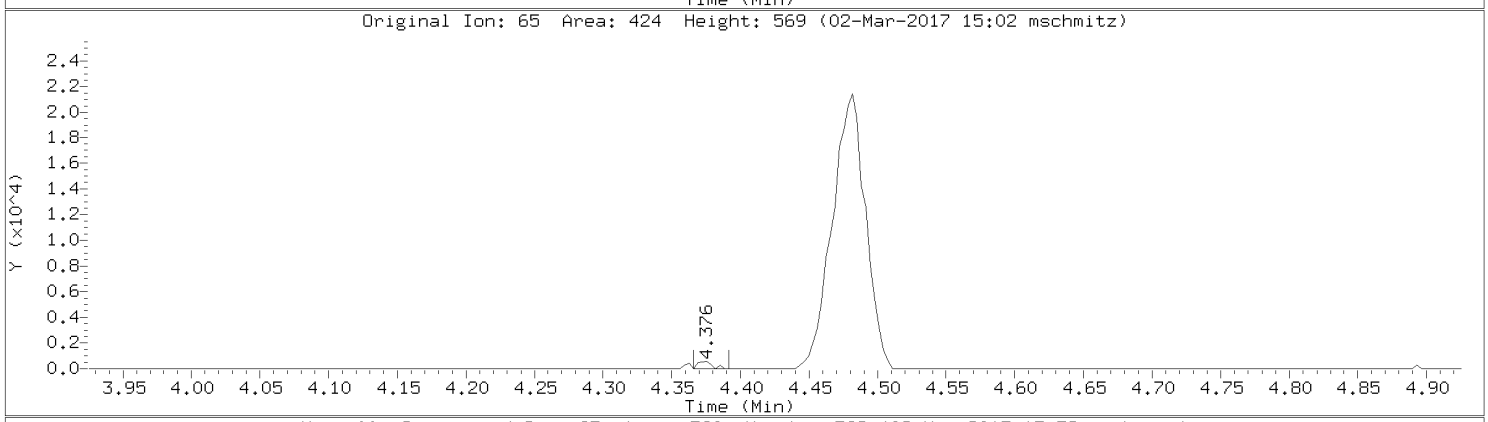


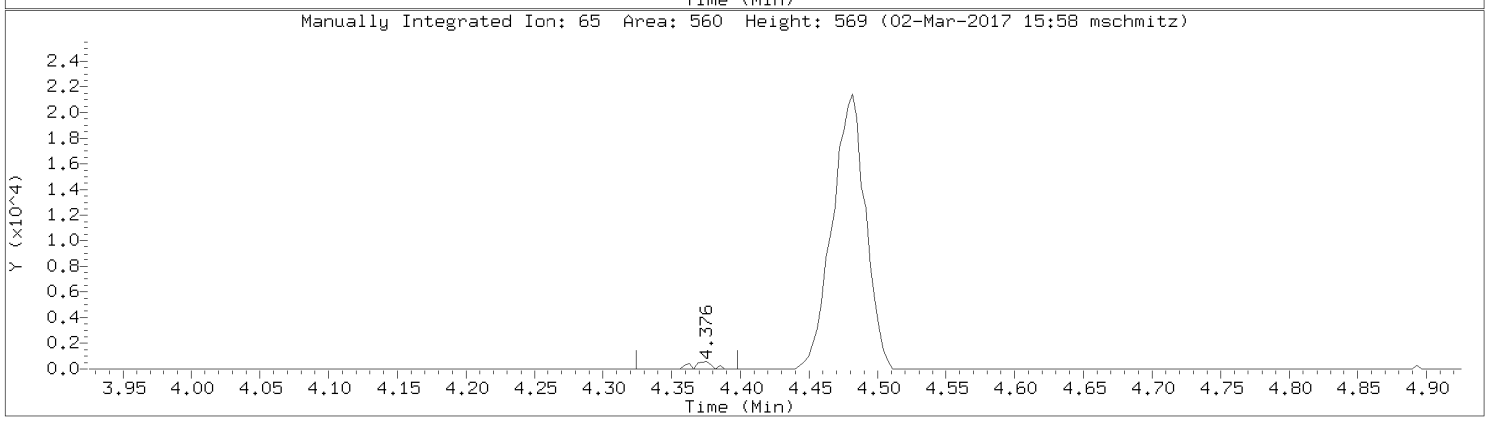
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,1-Dichloroethane
CAS Number: 75-34-3



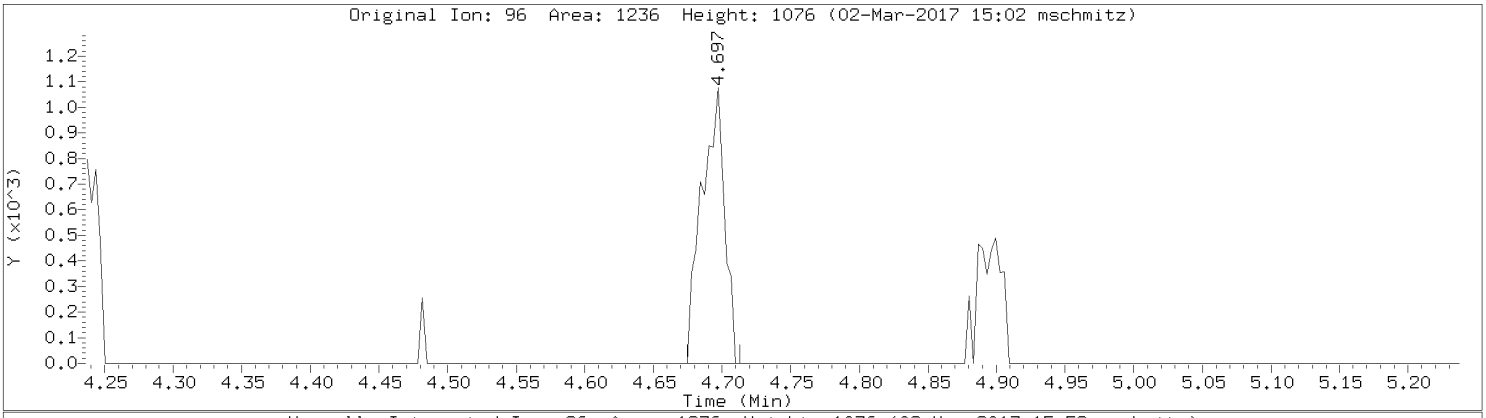


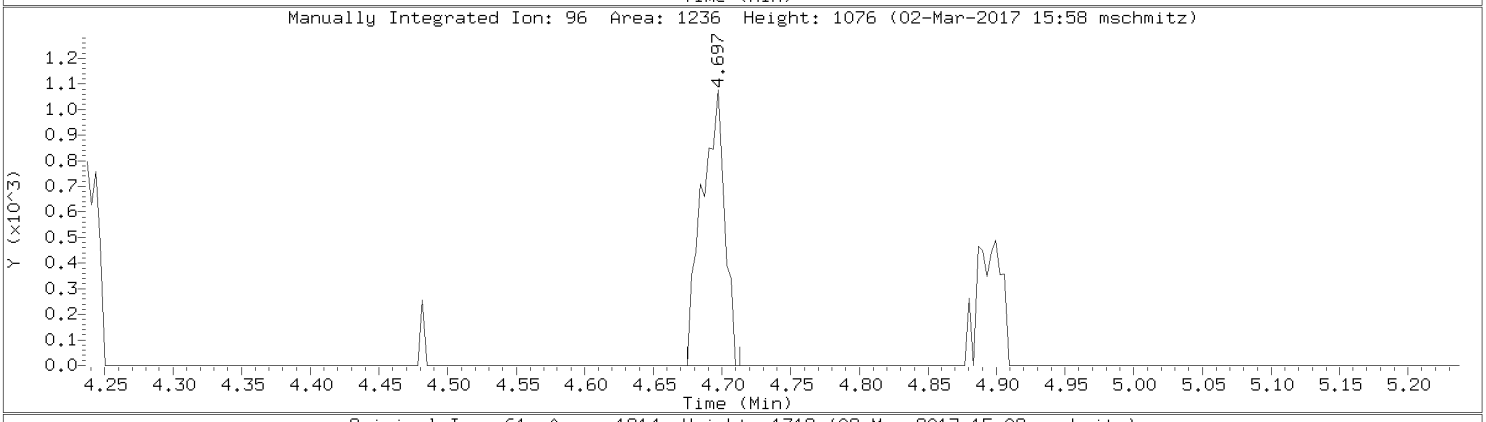


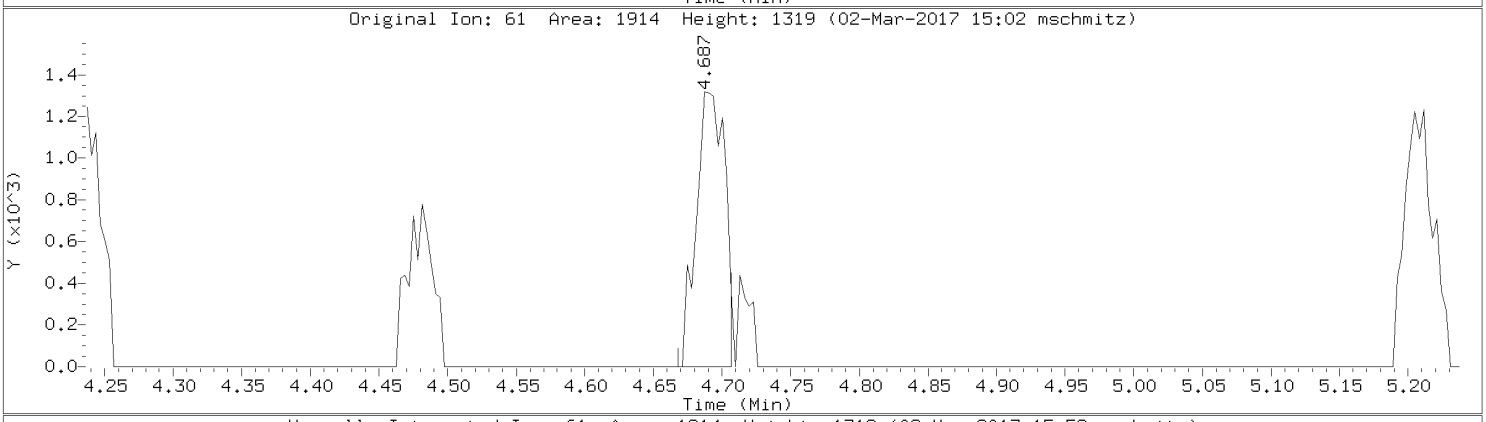


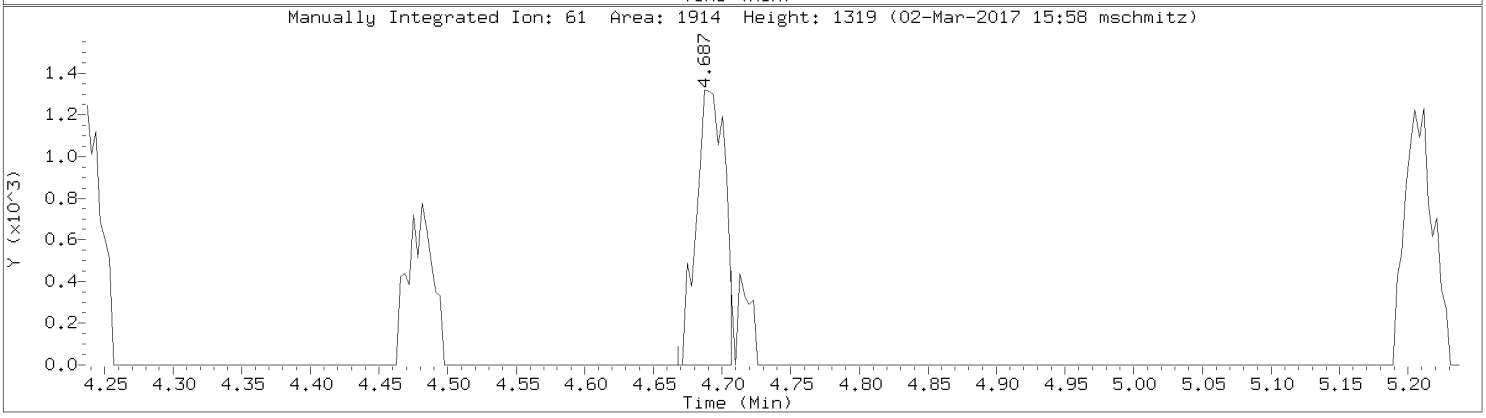
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: cis-1,2-Dichloroethene
CAS Number: 156-59-2

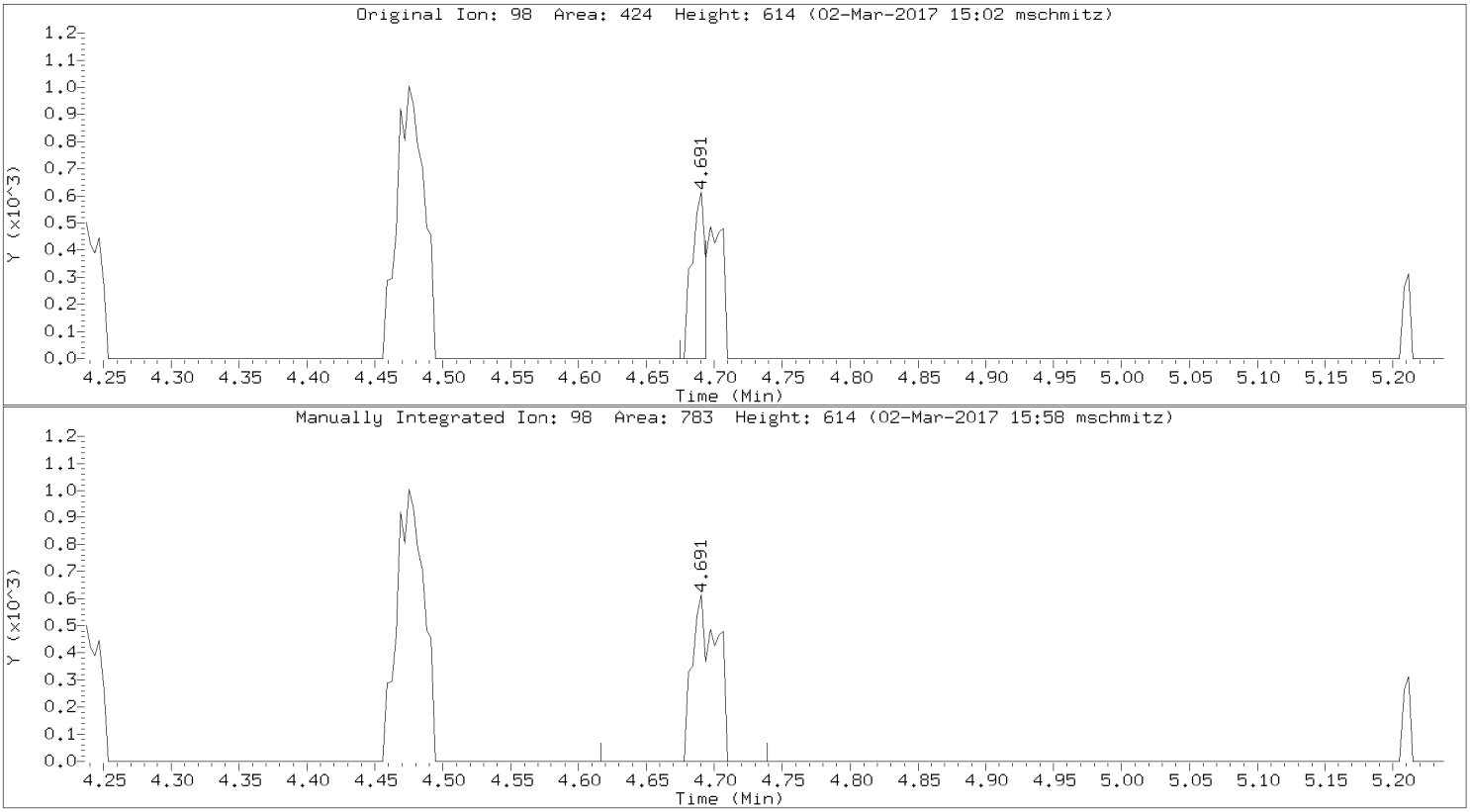






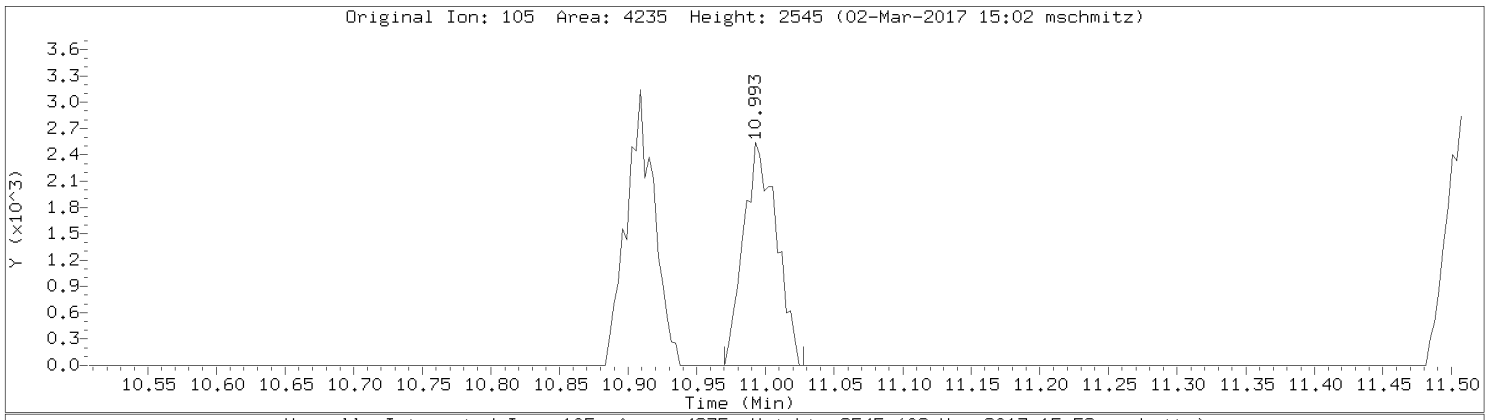


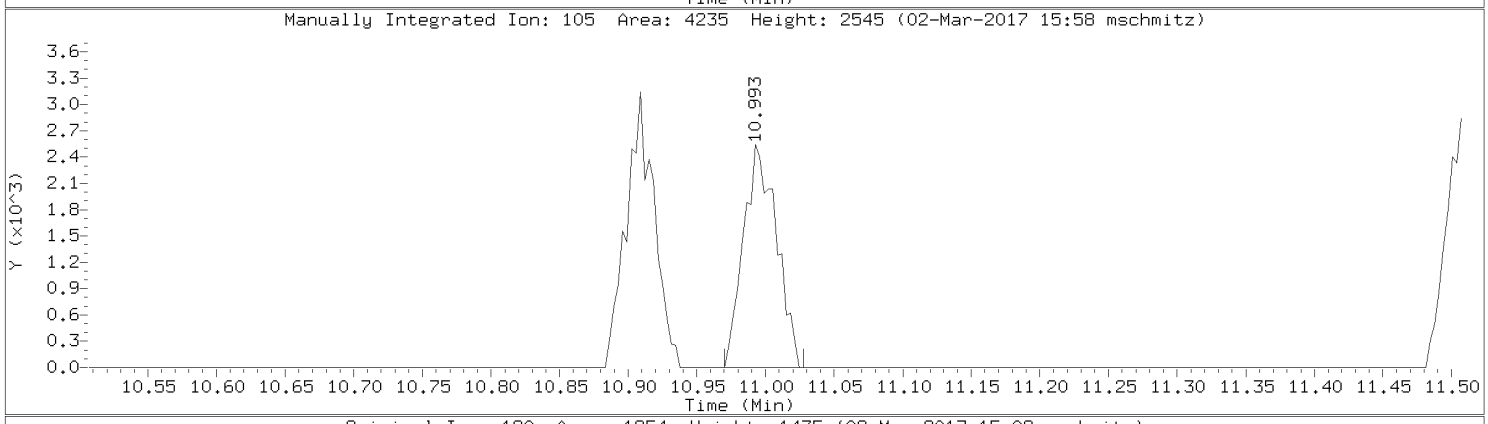
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

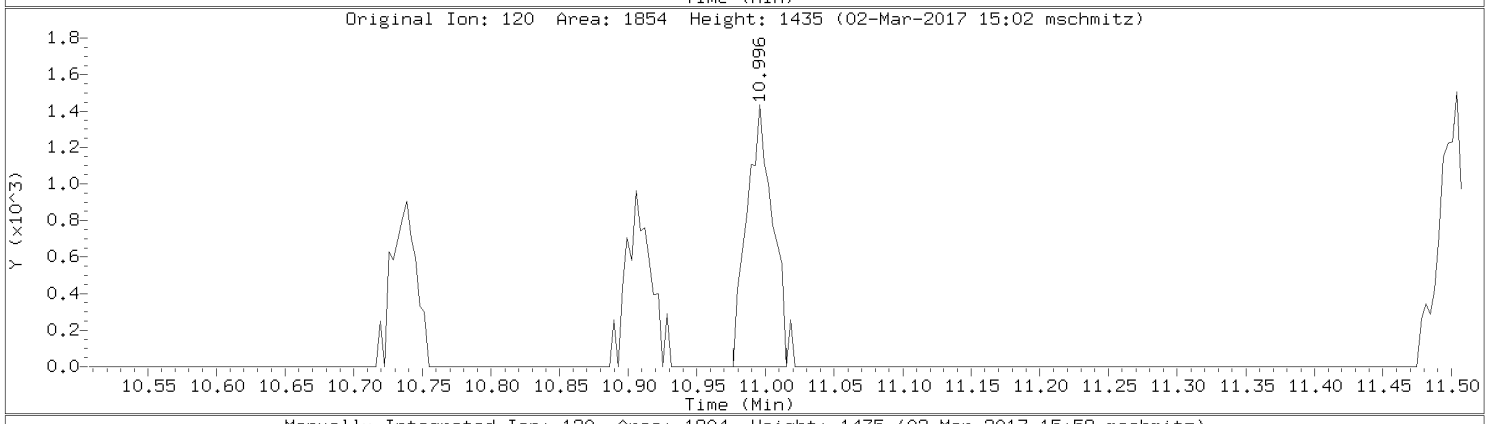


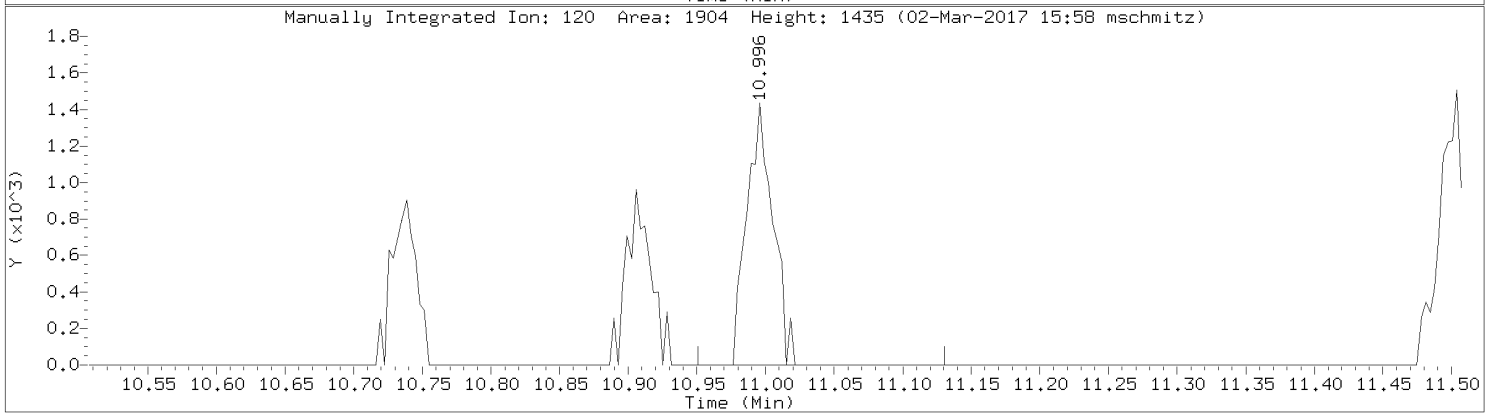
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8



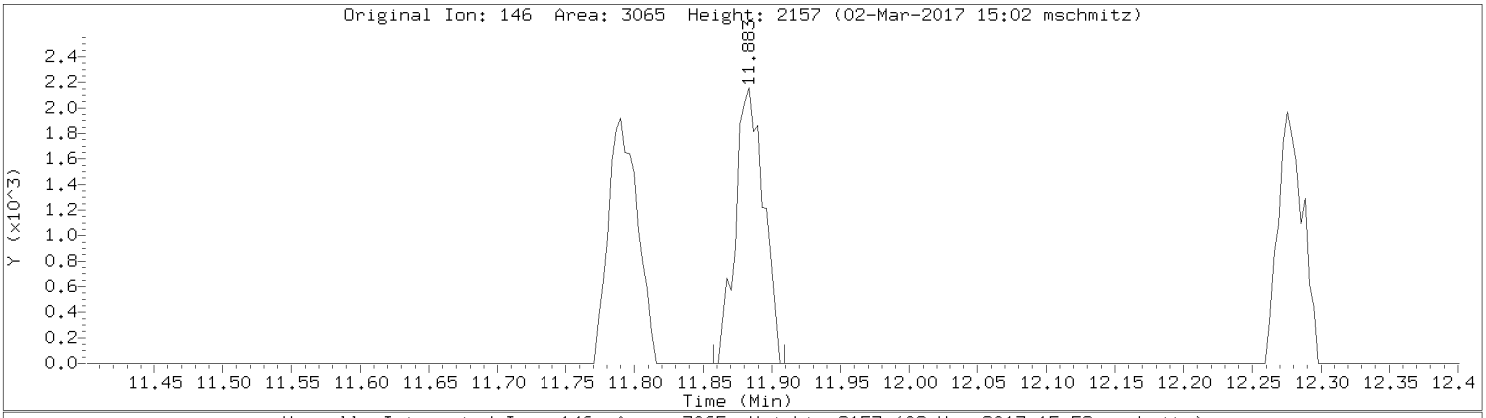


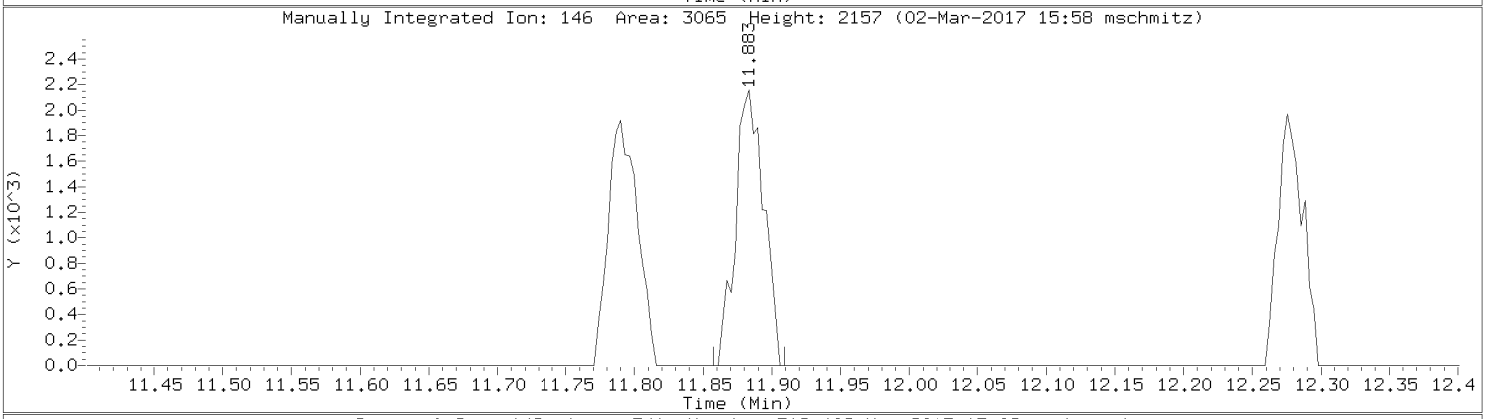


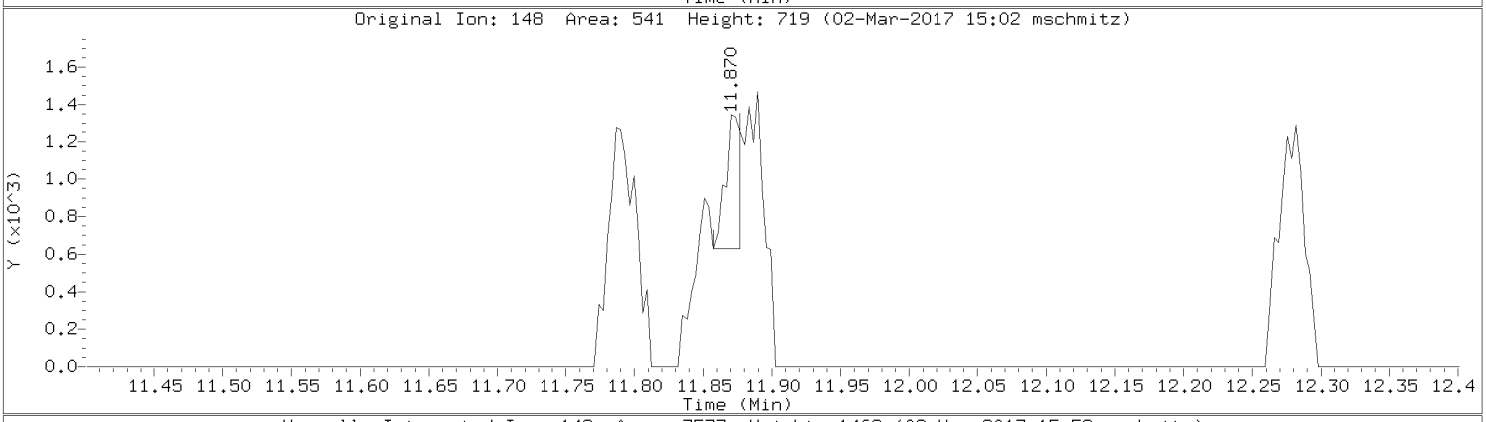


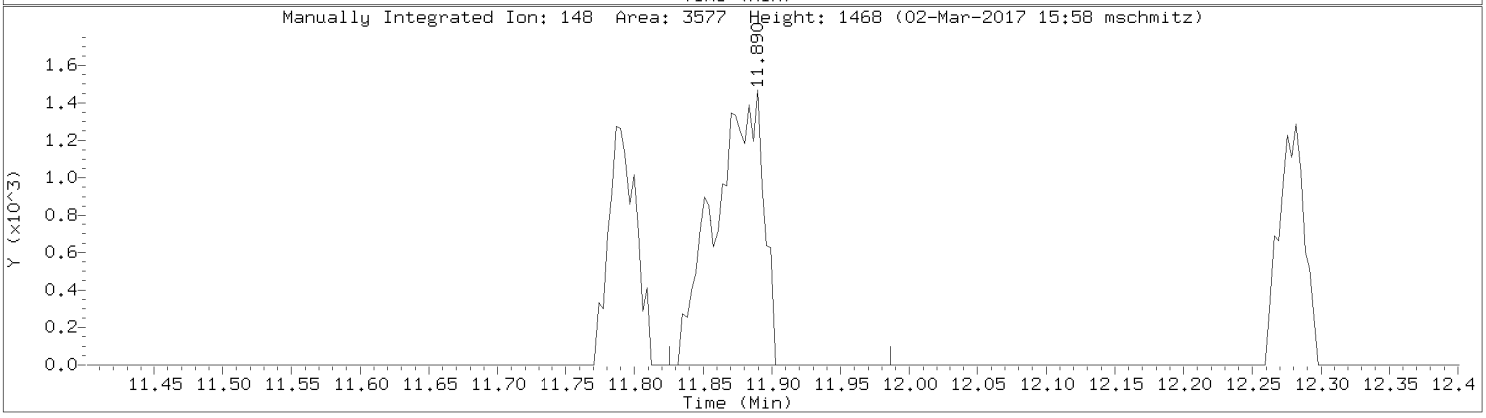
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

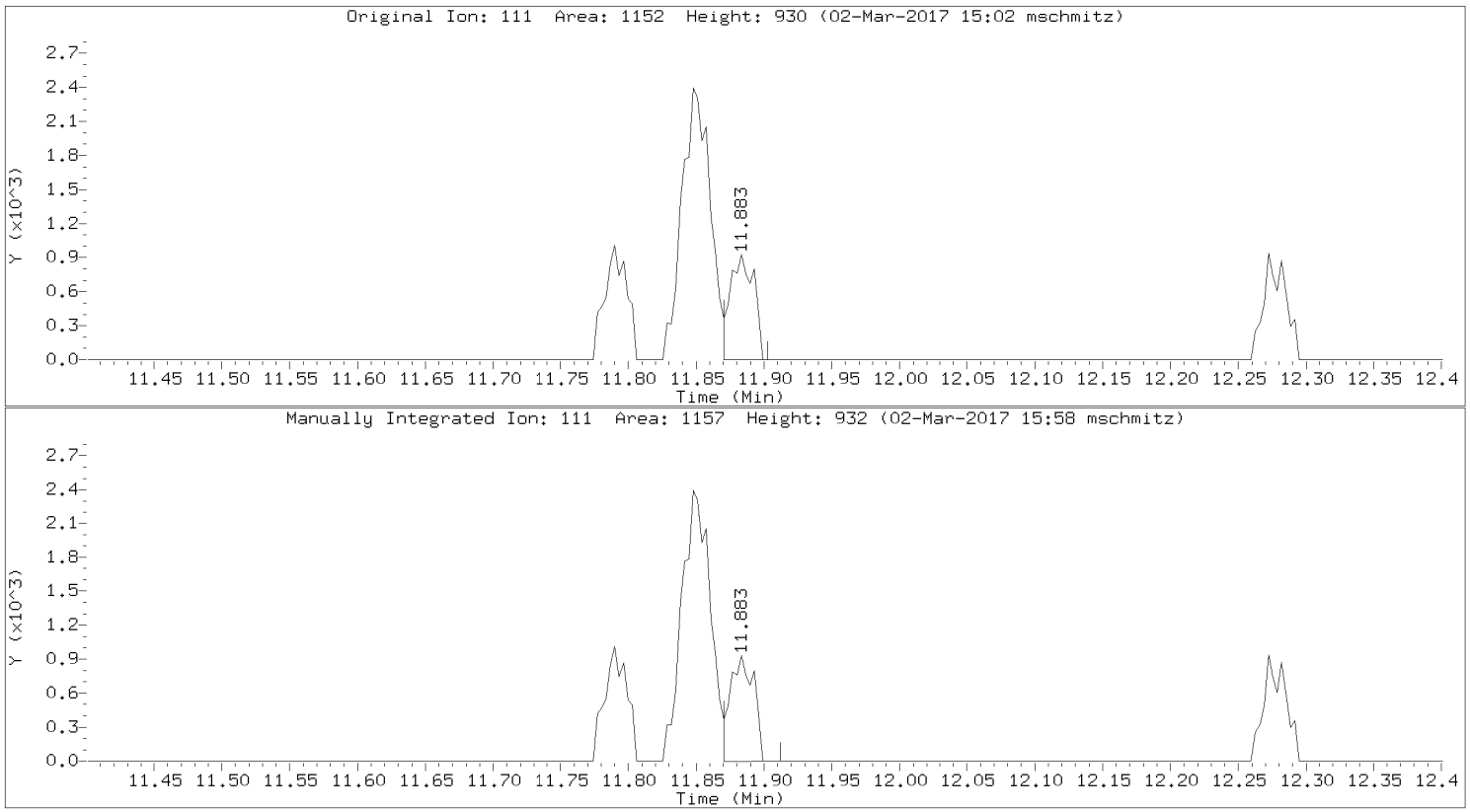






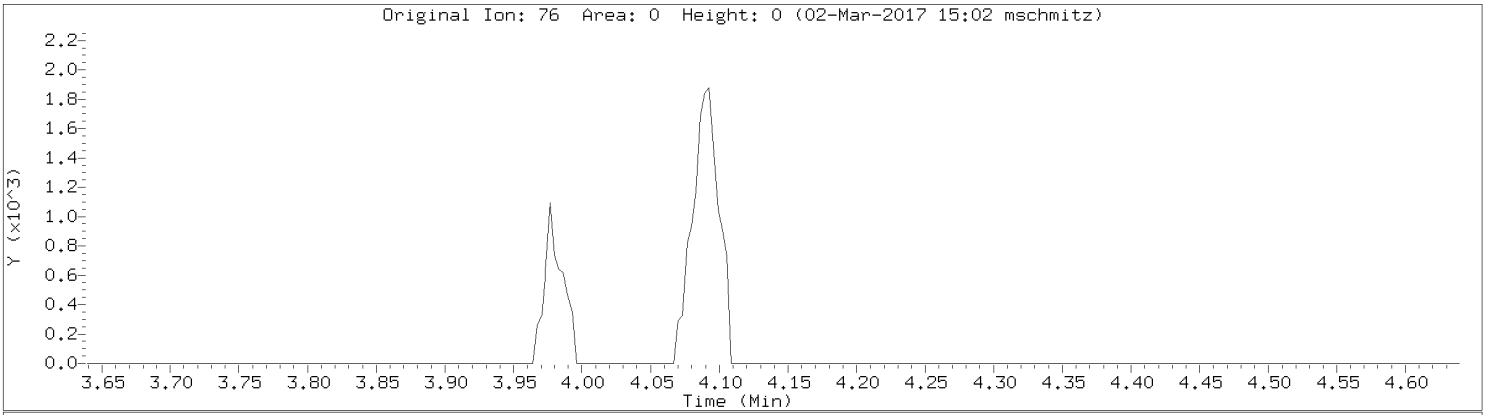


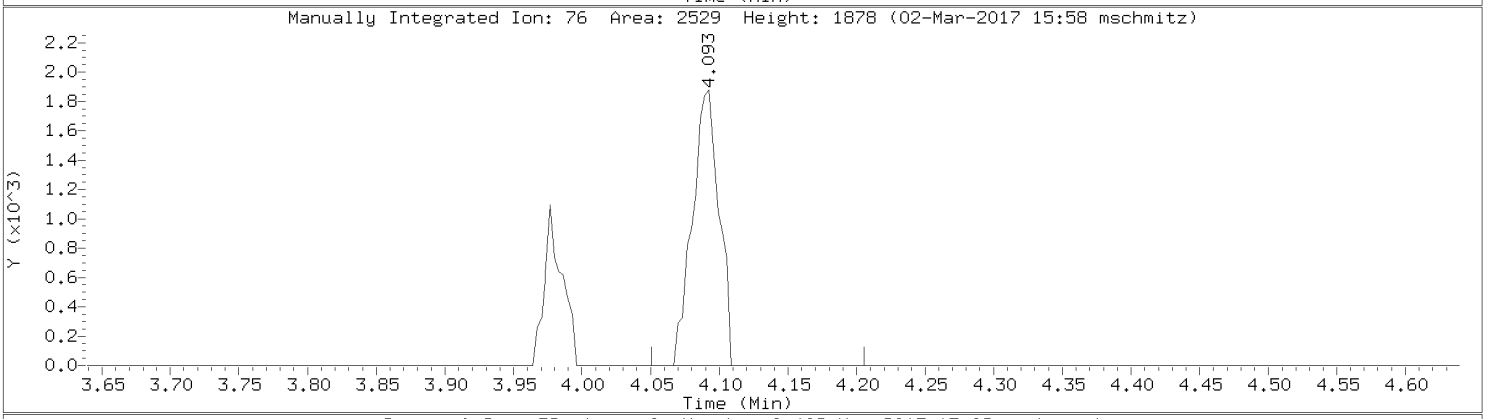
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

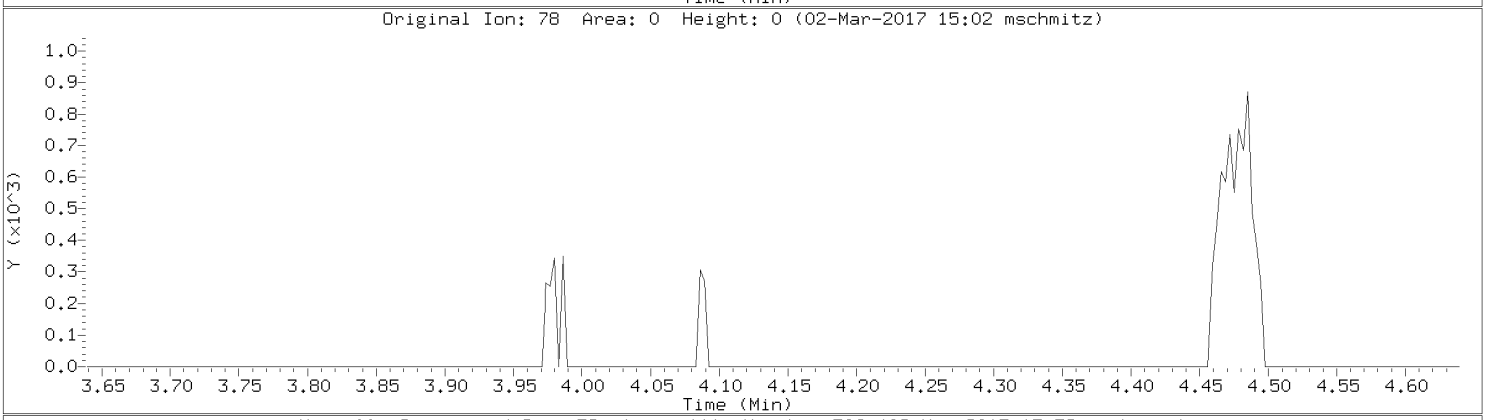


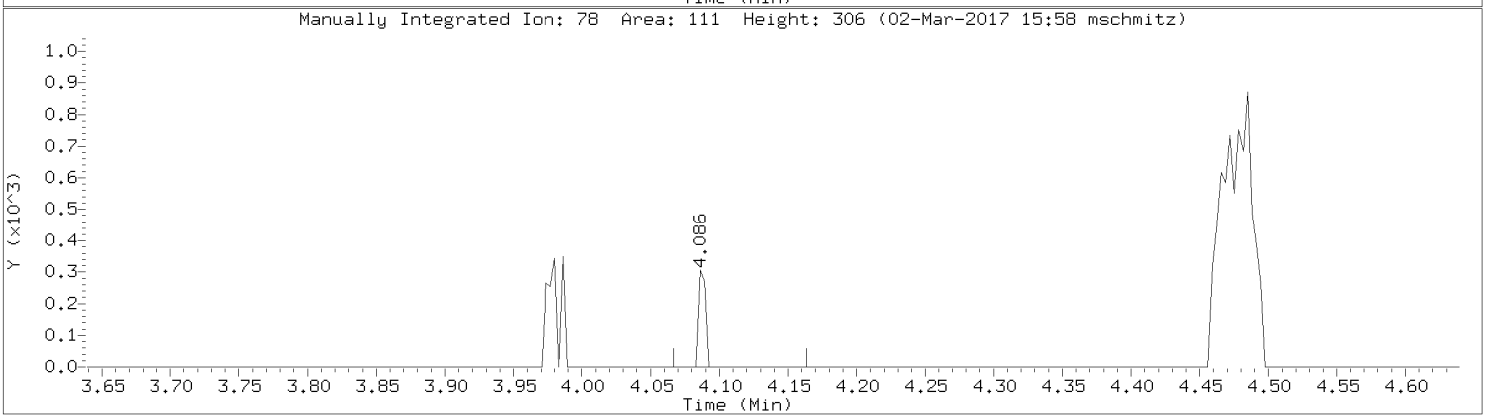
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Carbon Disulfide
CAS Number: 75-15-0



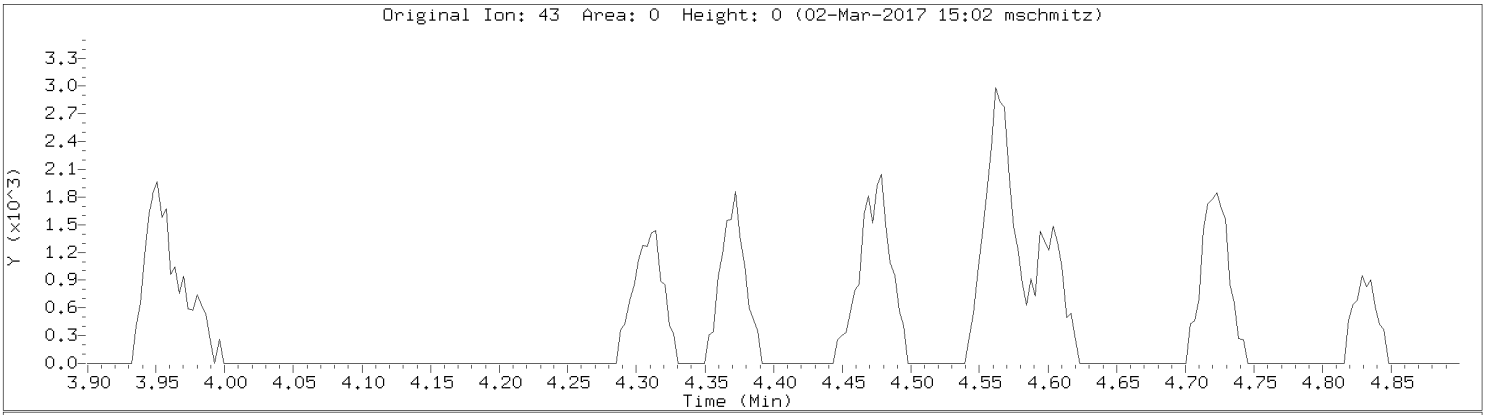


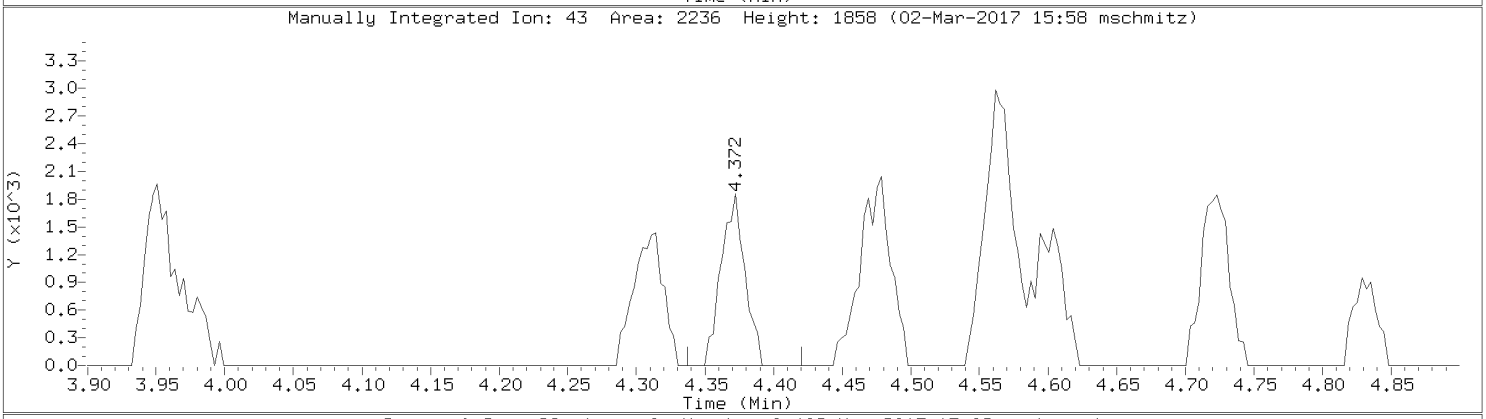


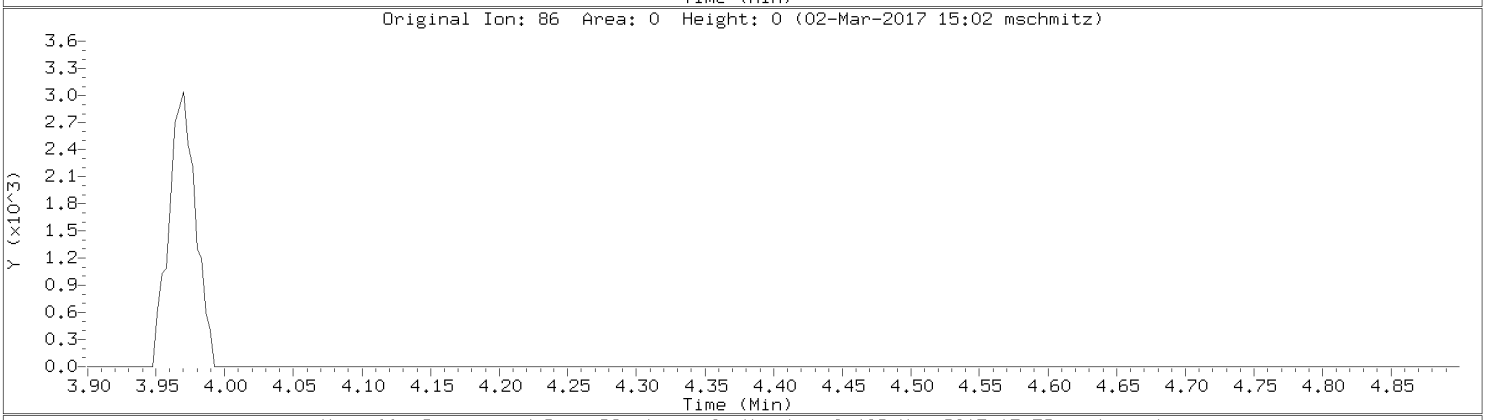


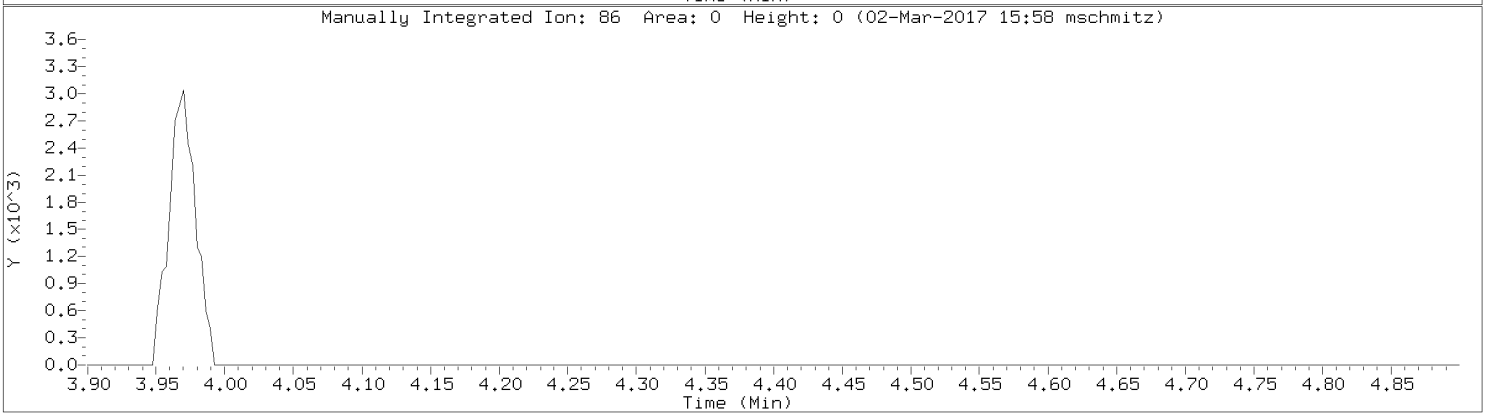
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Vinyl Acetate
CAS Number: 108-05-4



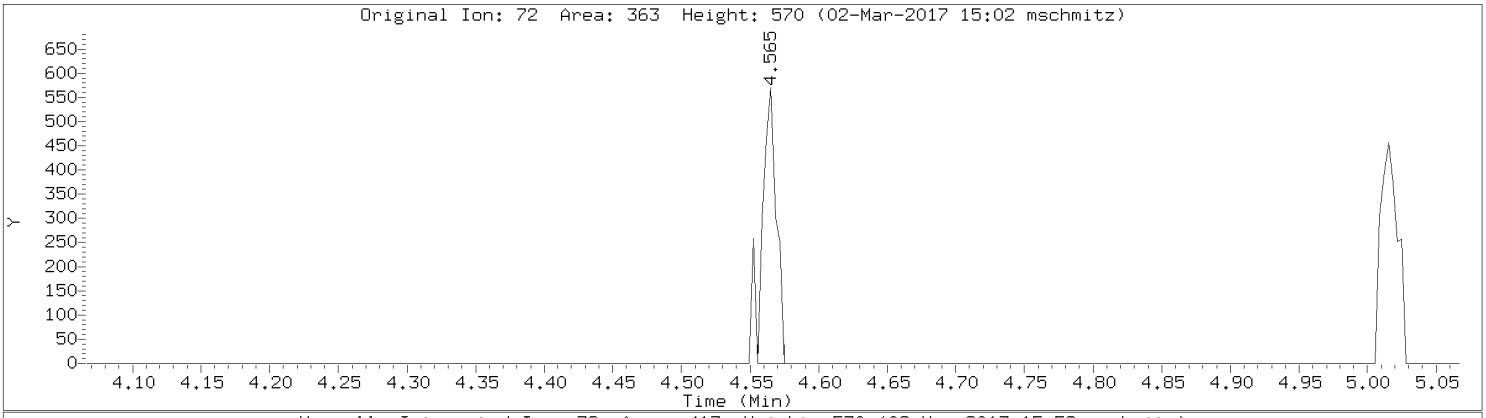


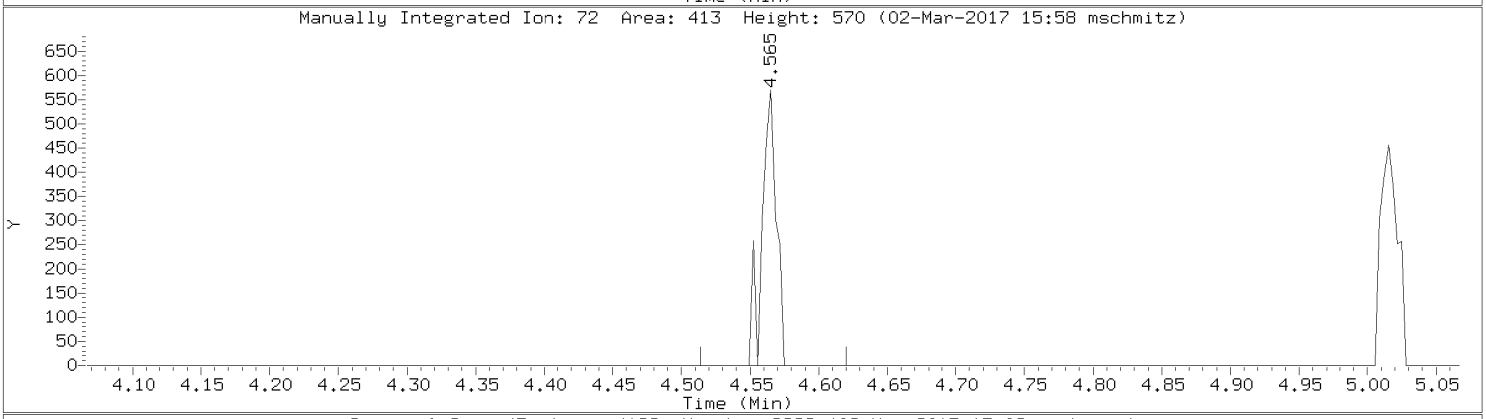


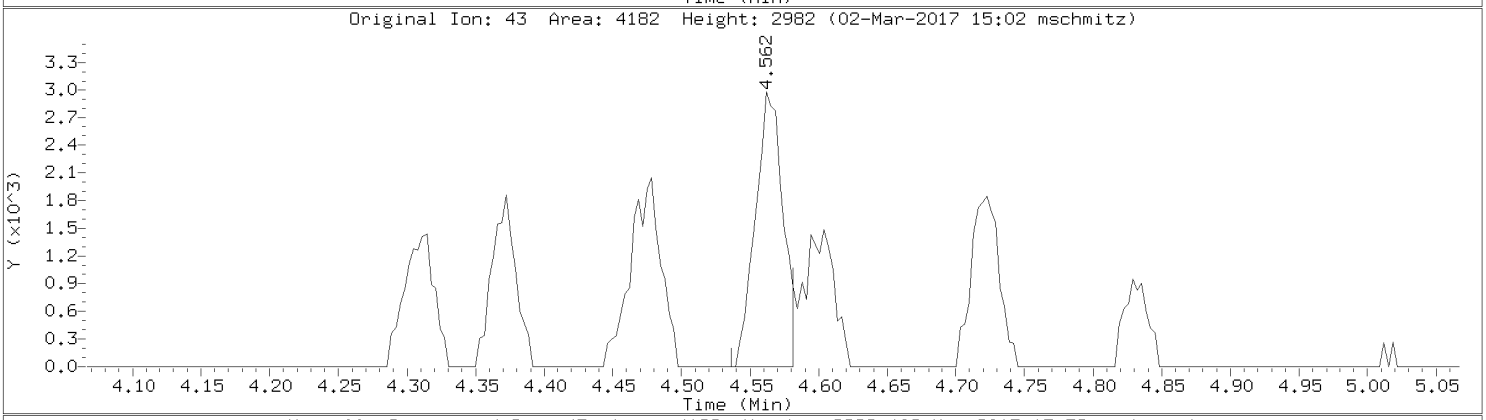


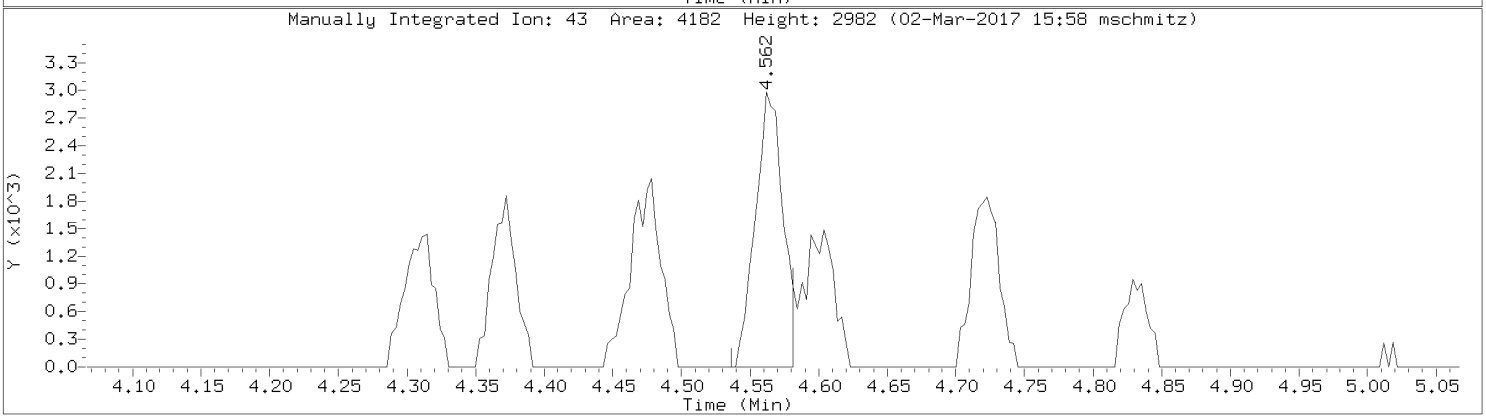
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



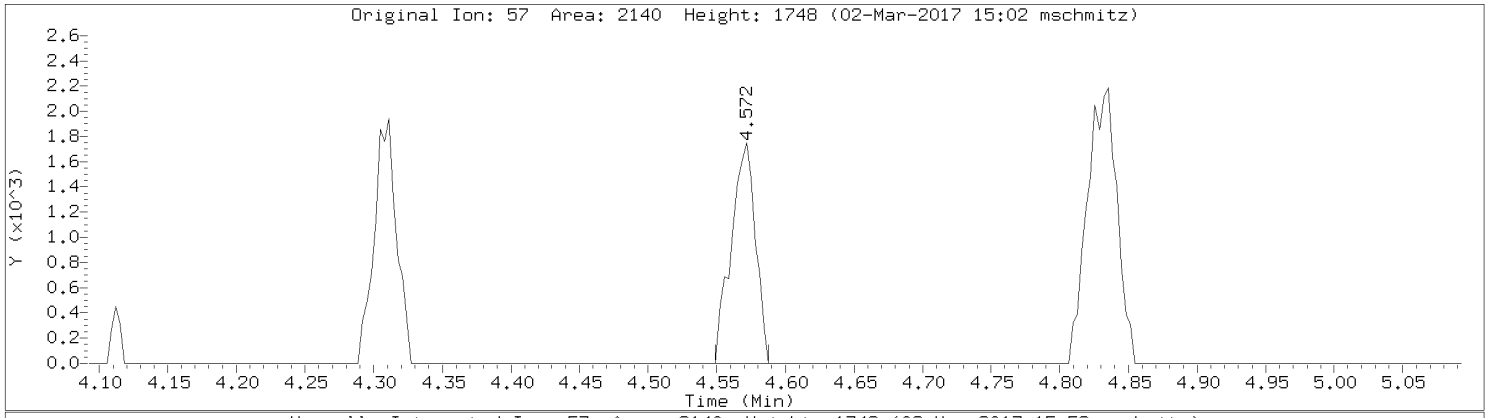


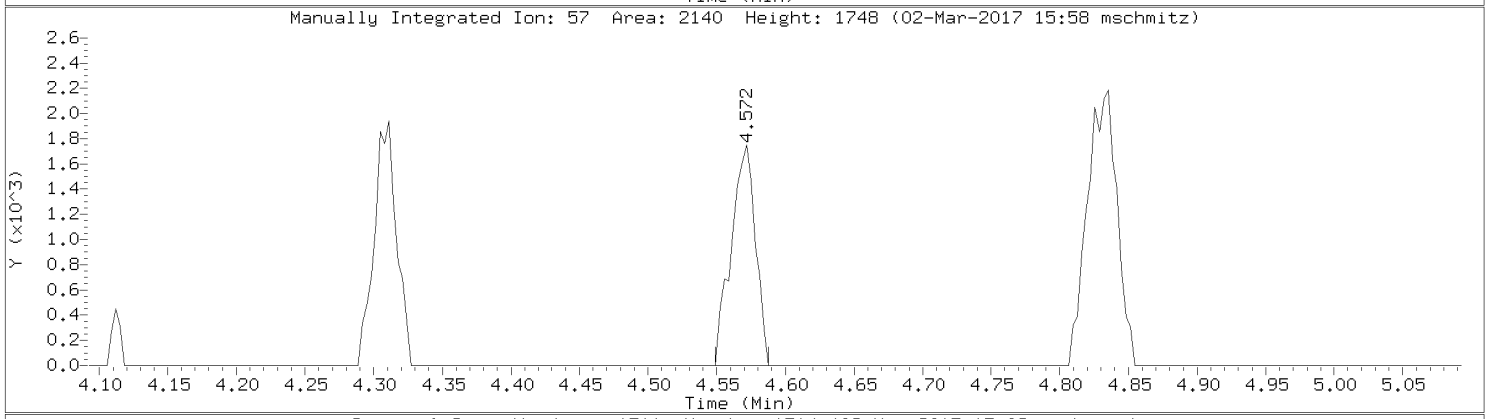


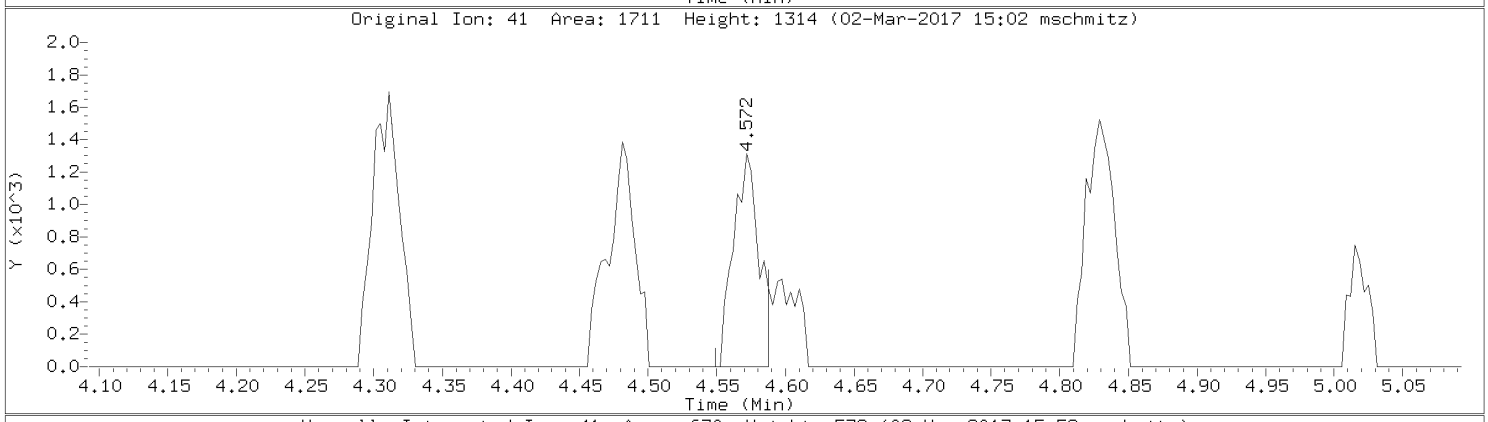


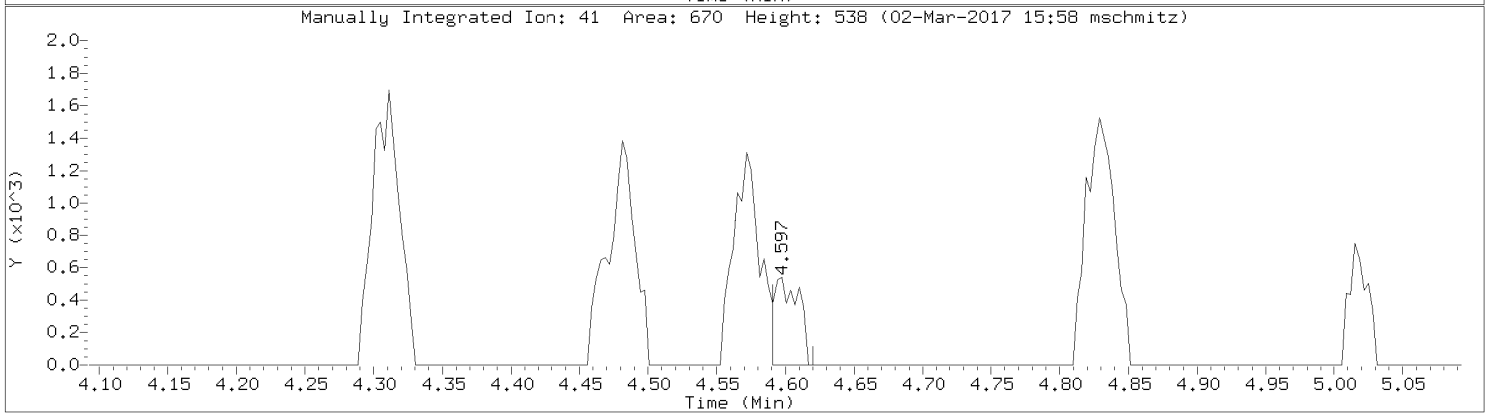
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: n-Hexane
CAS Number: 110-54-3

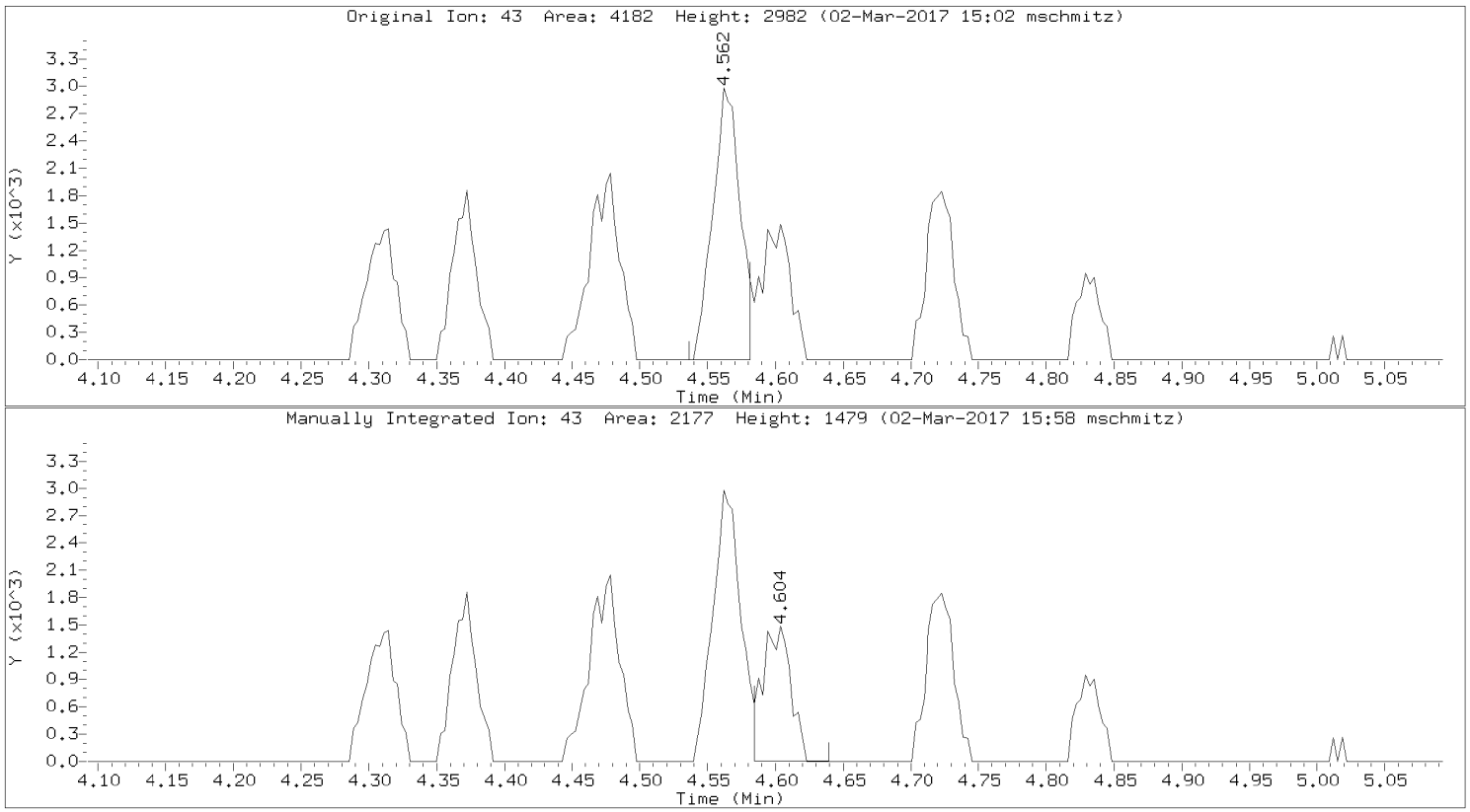






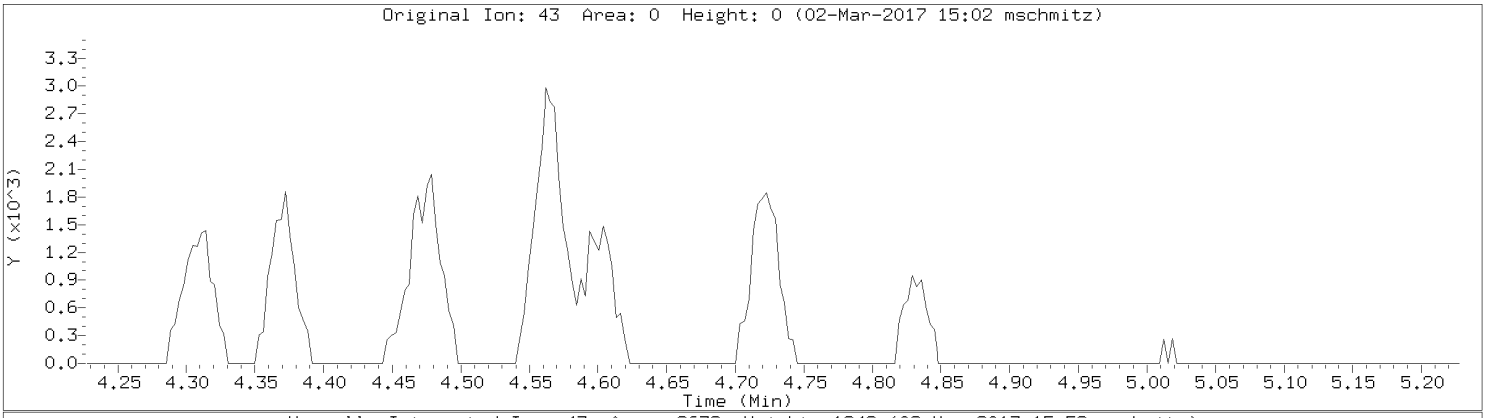


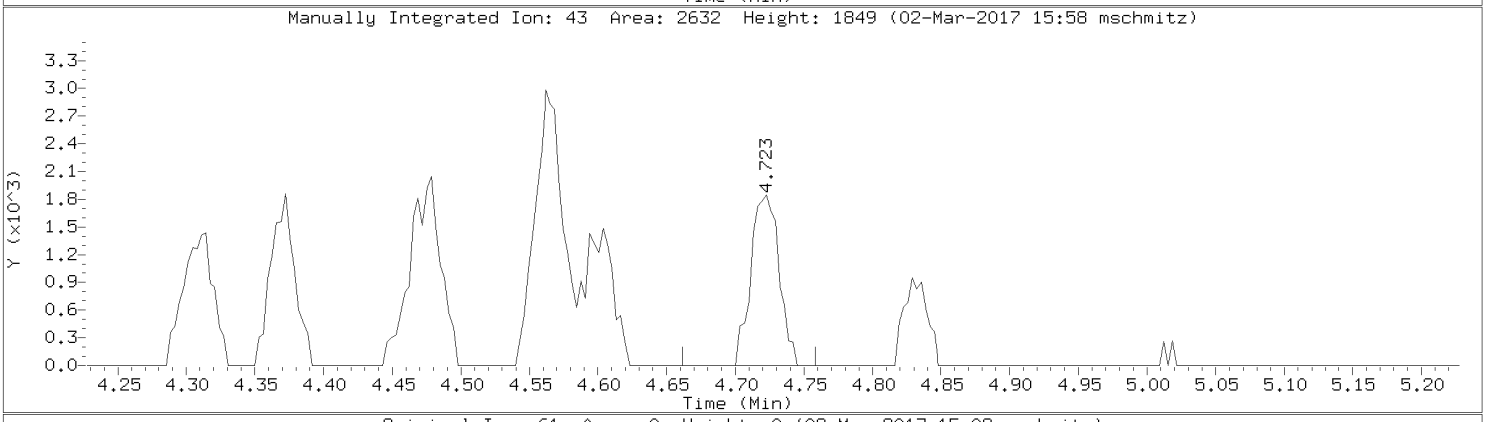
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

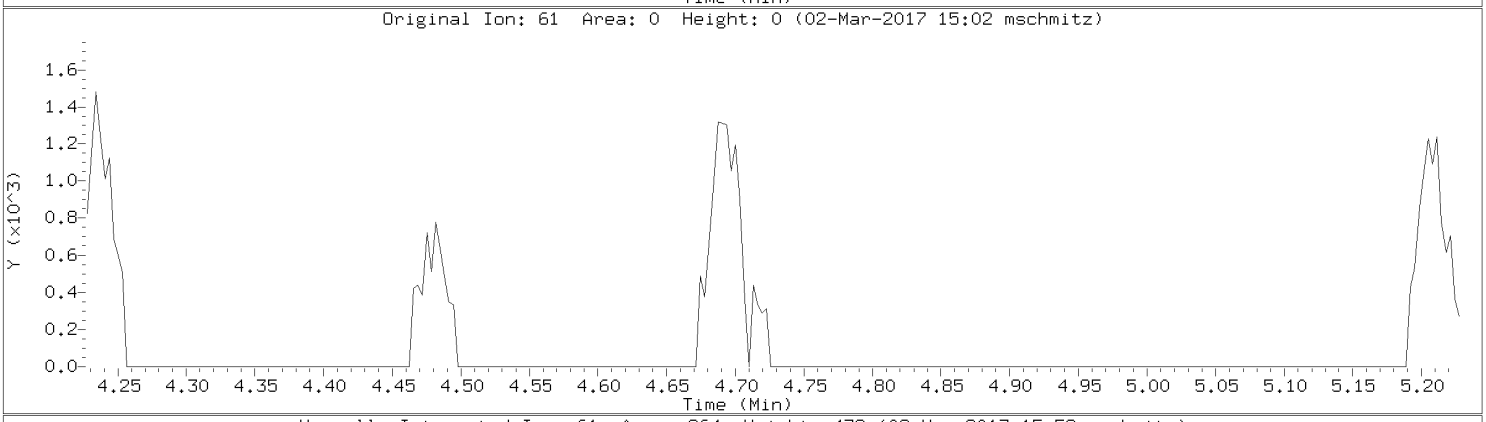


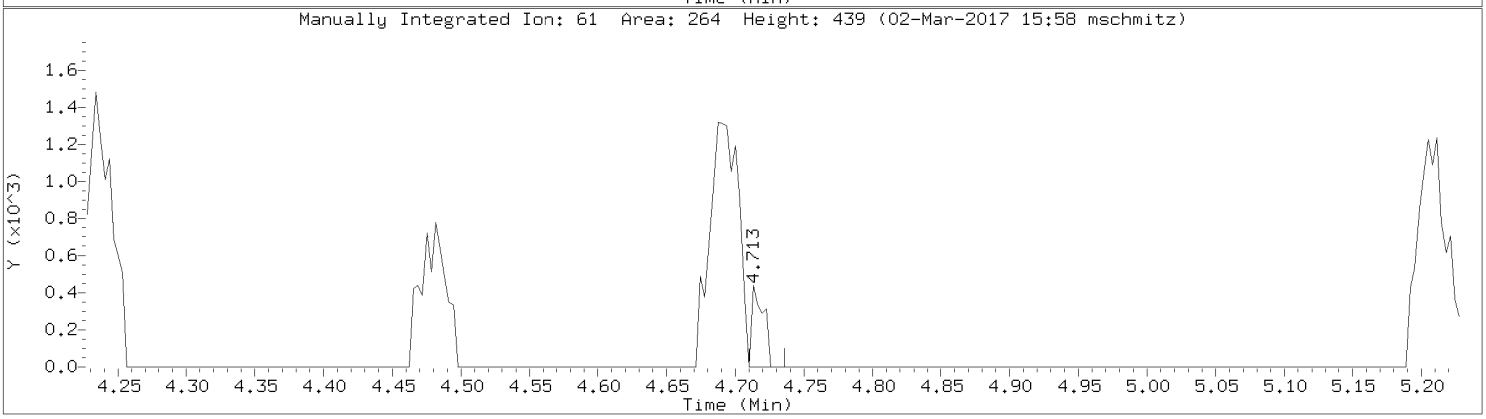
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Ethyl Acetate
CAS Number: 141-78-6

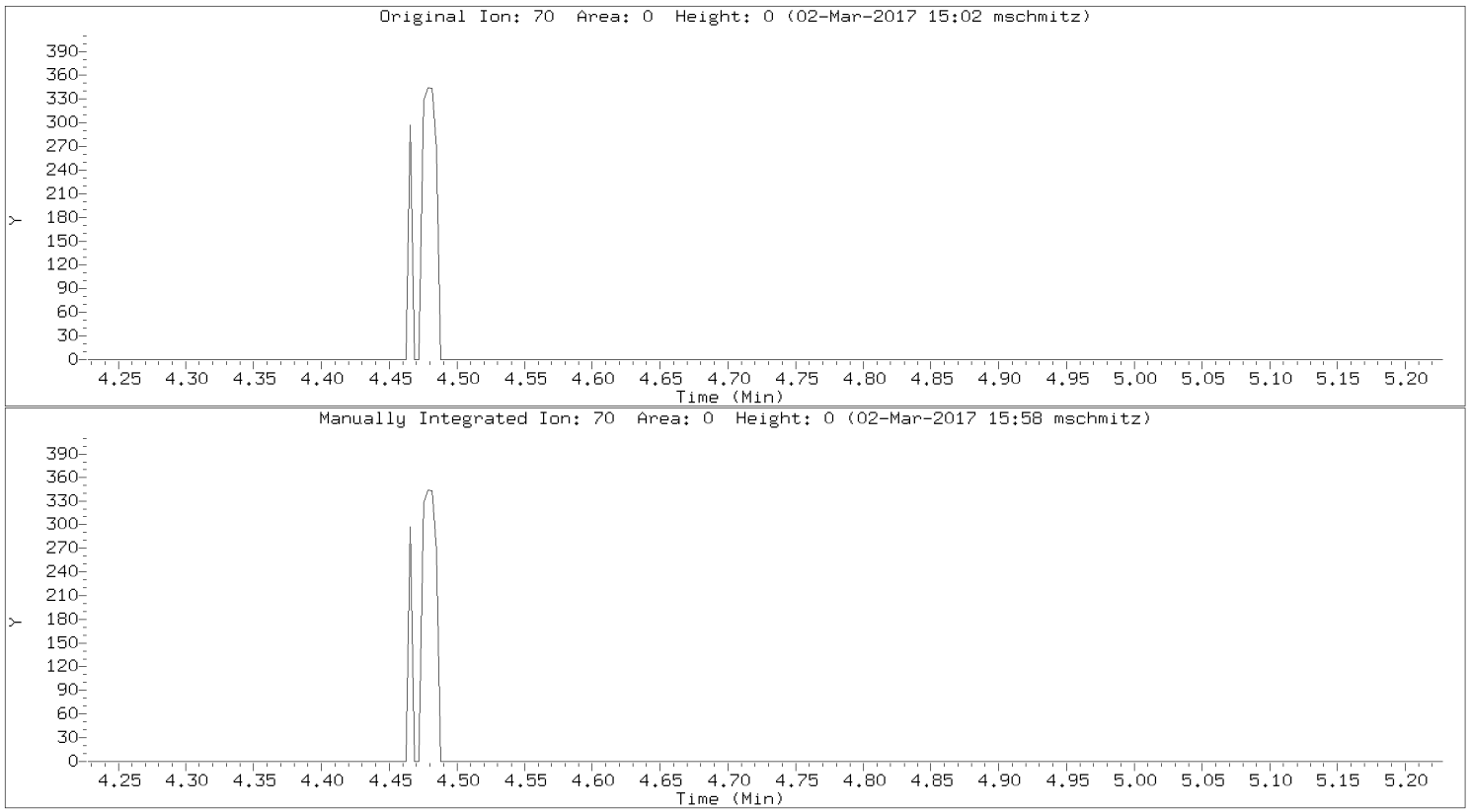






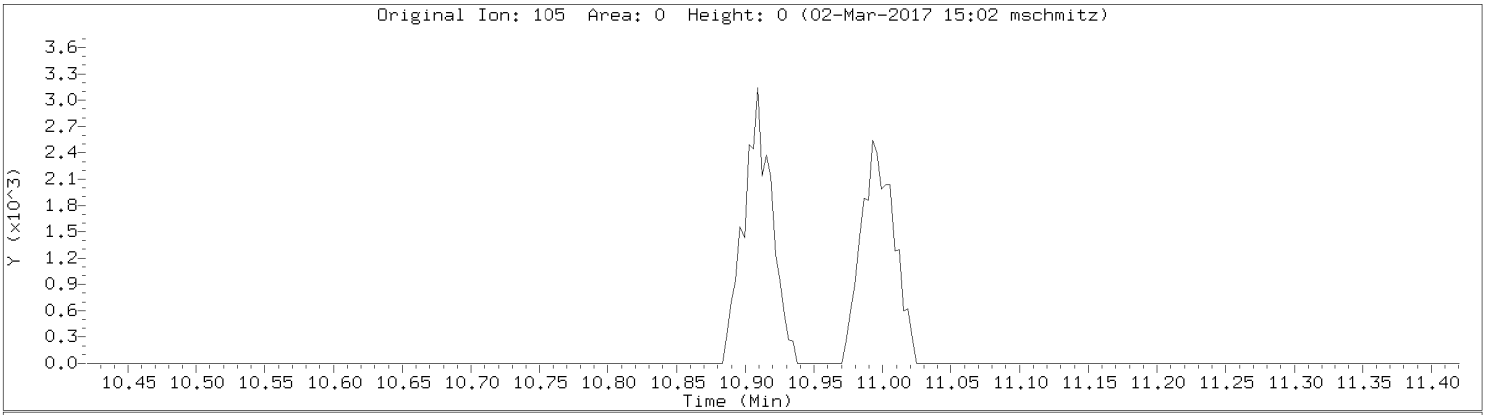


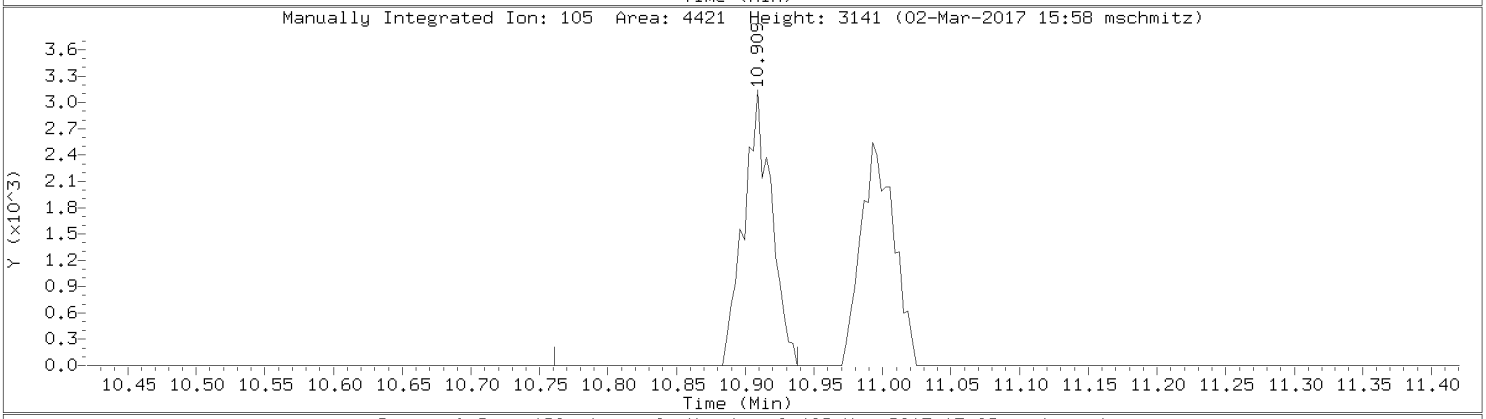
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

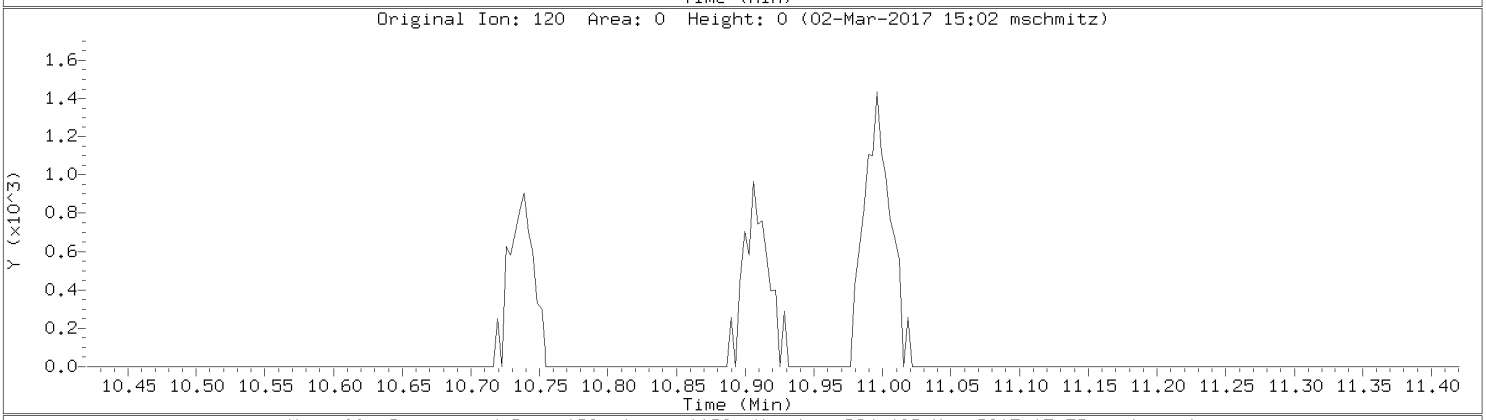


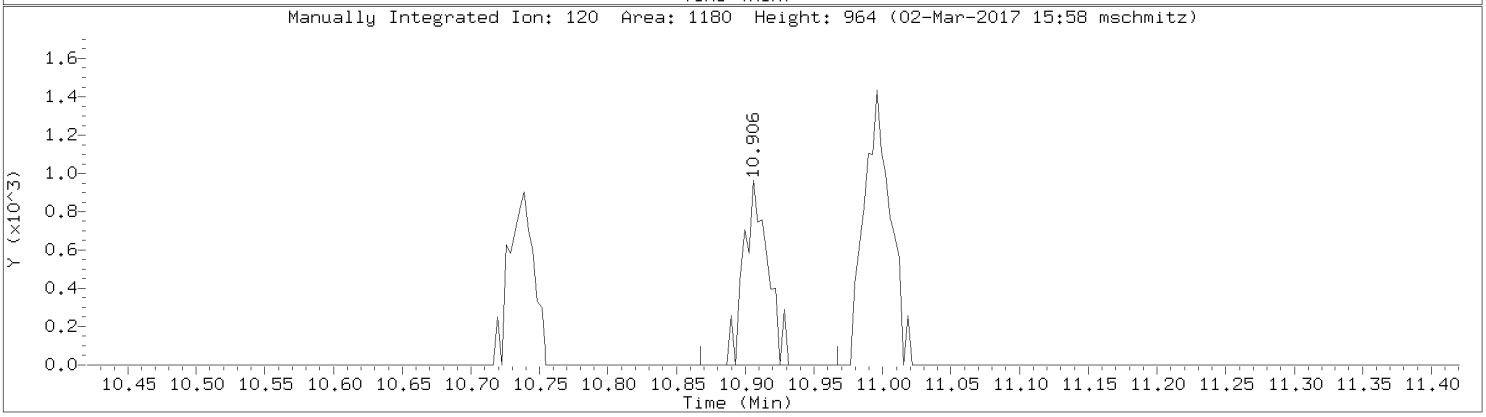
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

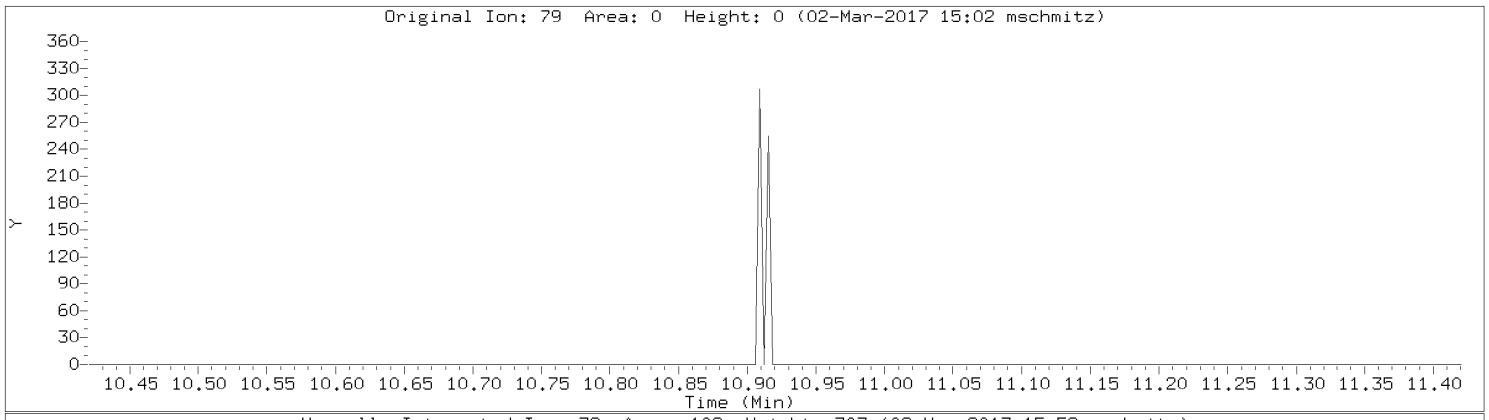


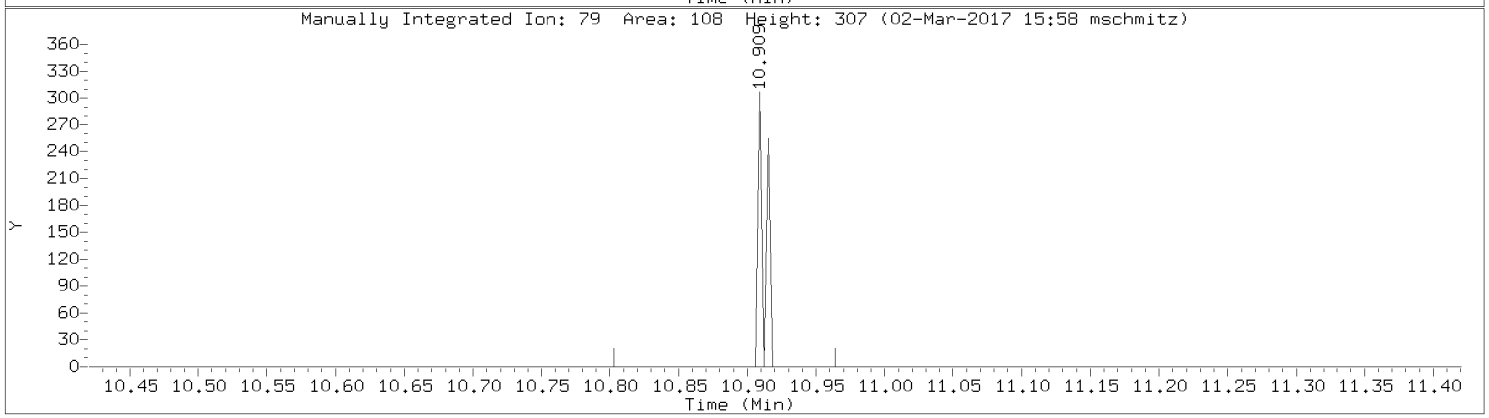






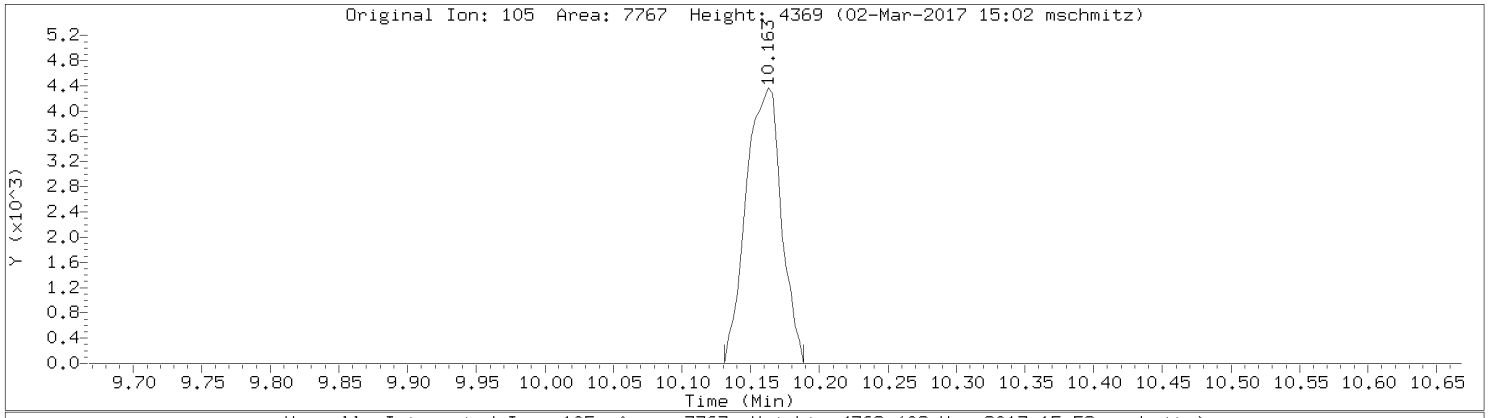
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

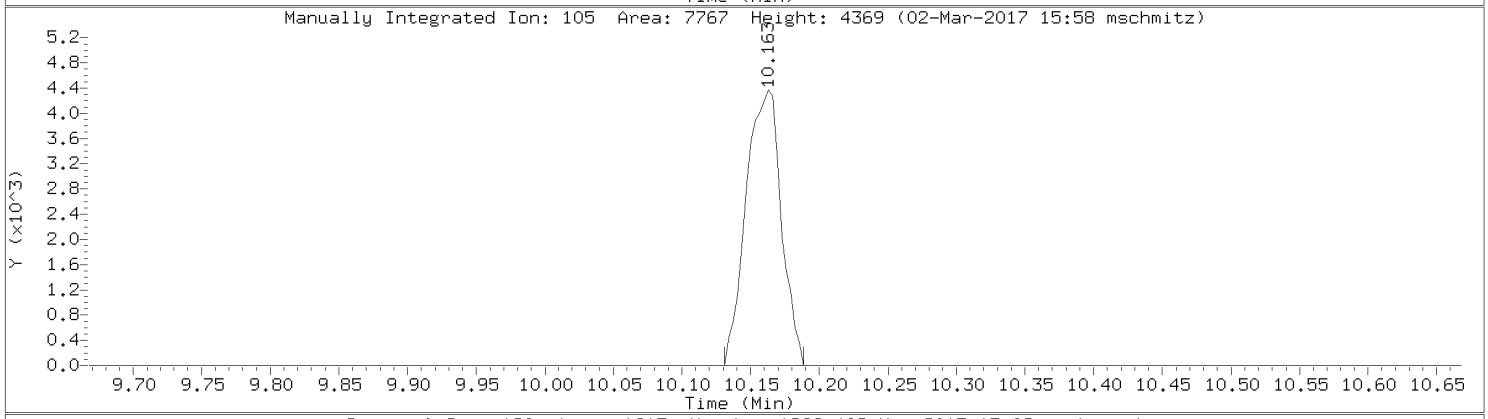


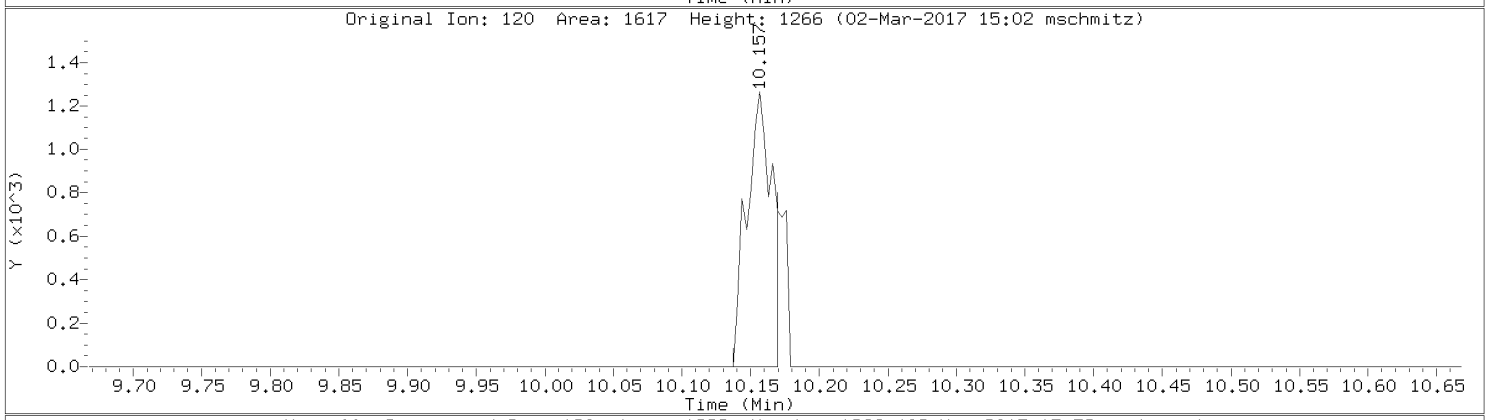


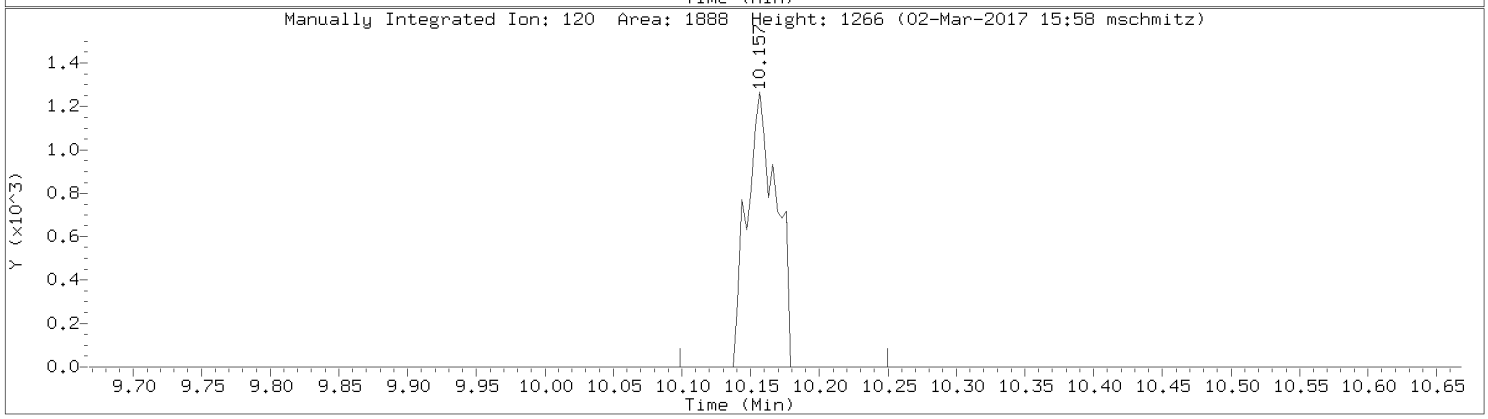
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Isopropylbenzene
CAS Number:



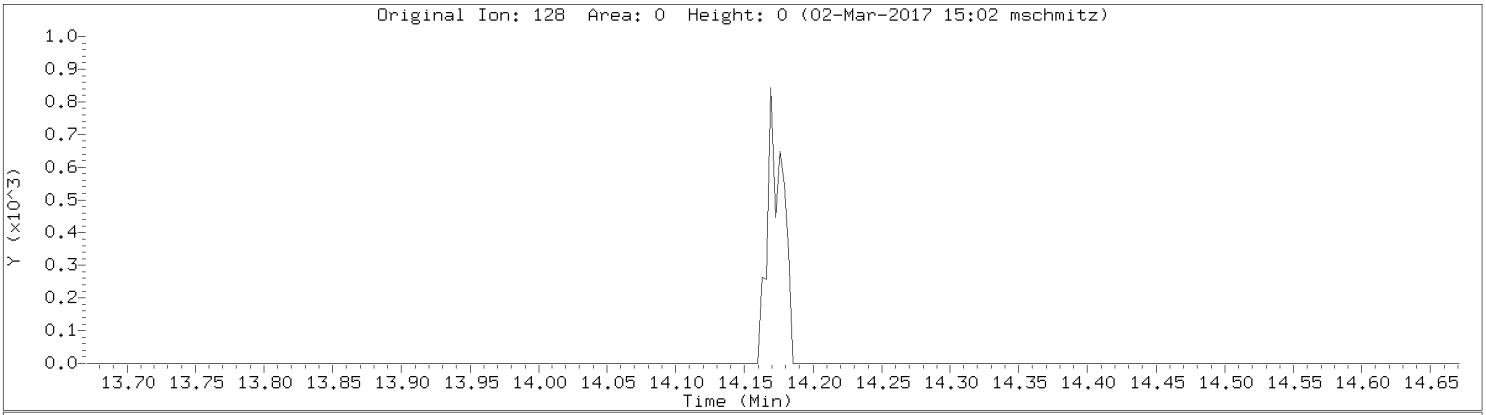


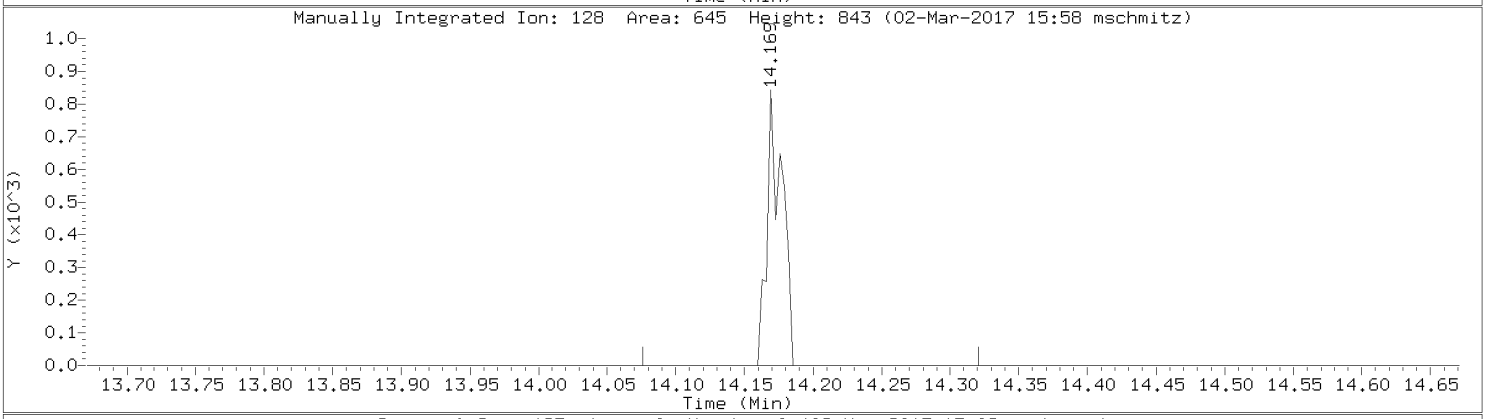


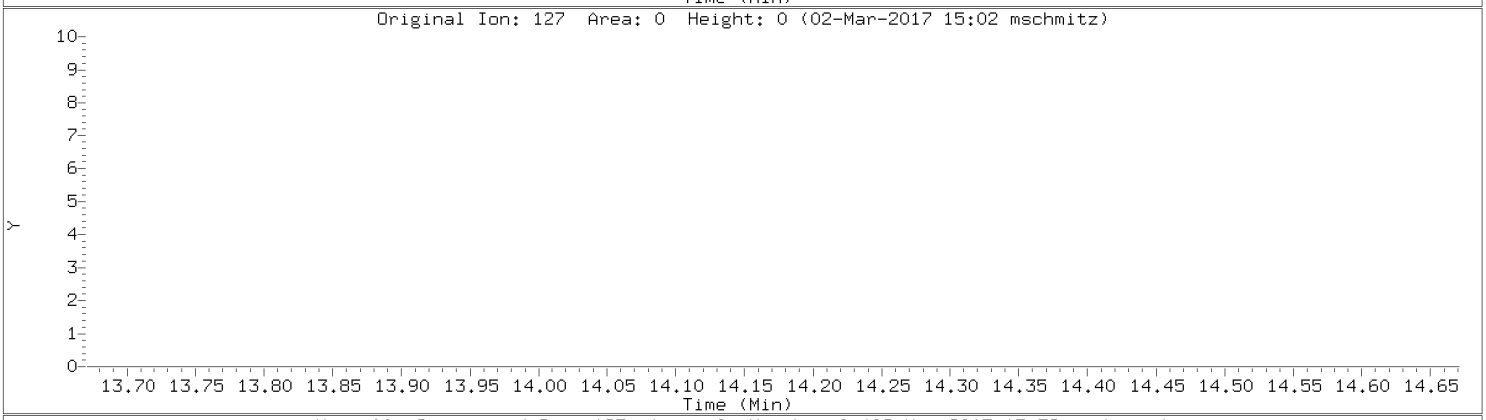


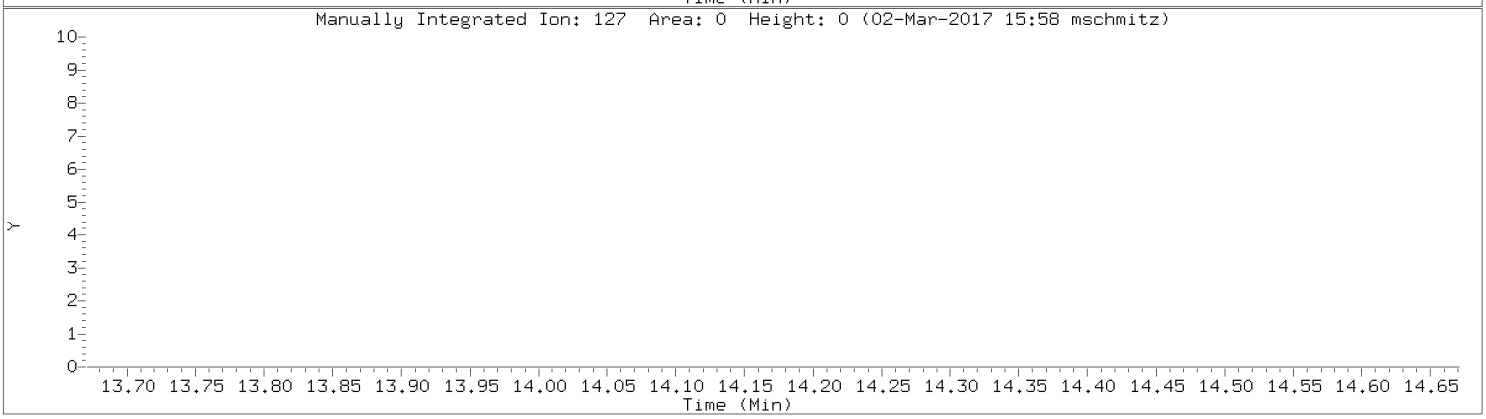
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Naphthalene
CAS Number: 91-20-3



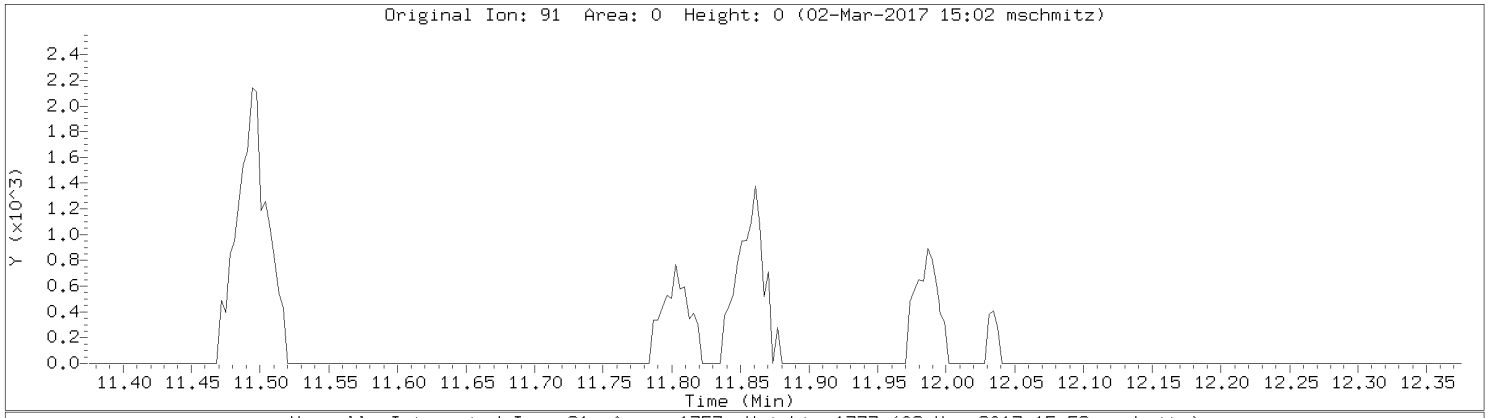


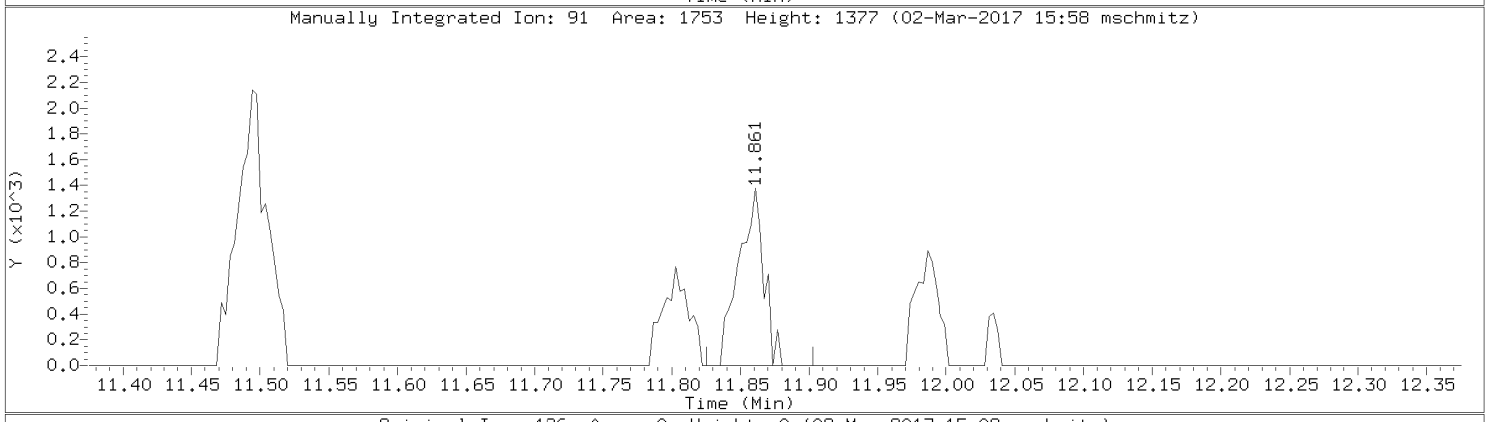


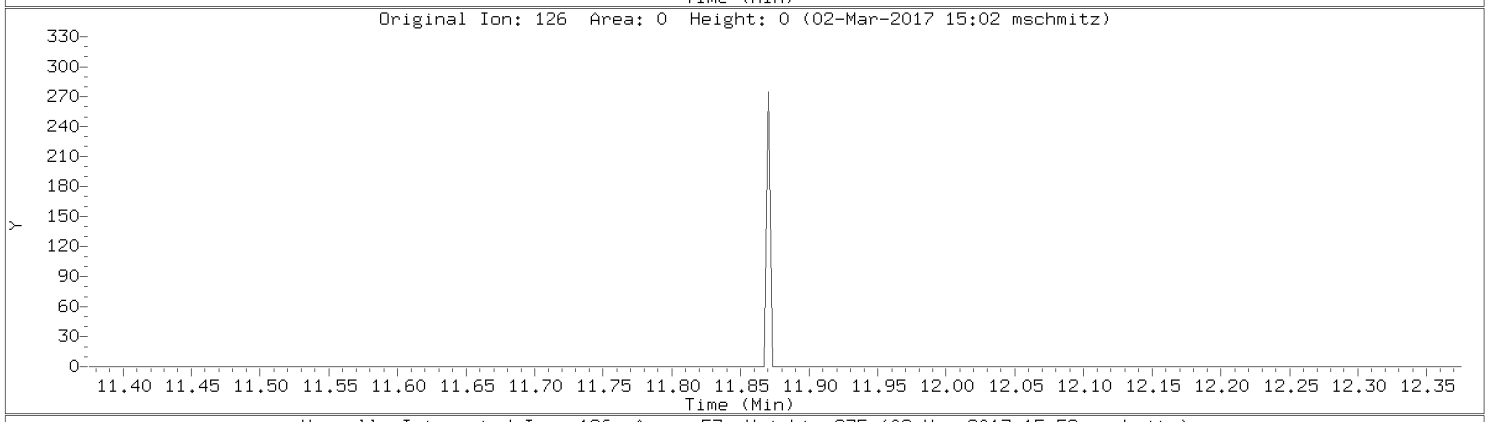


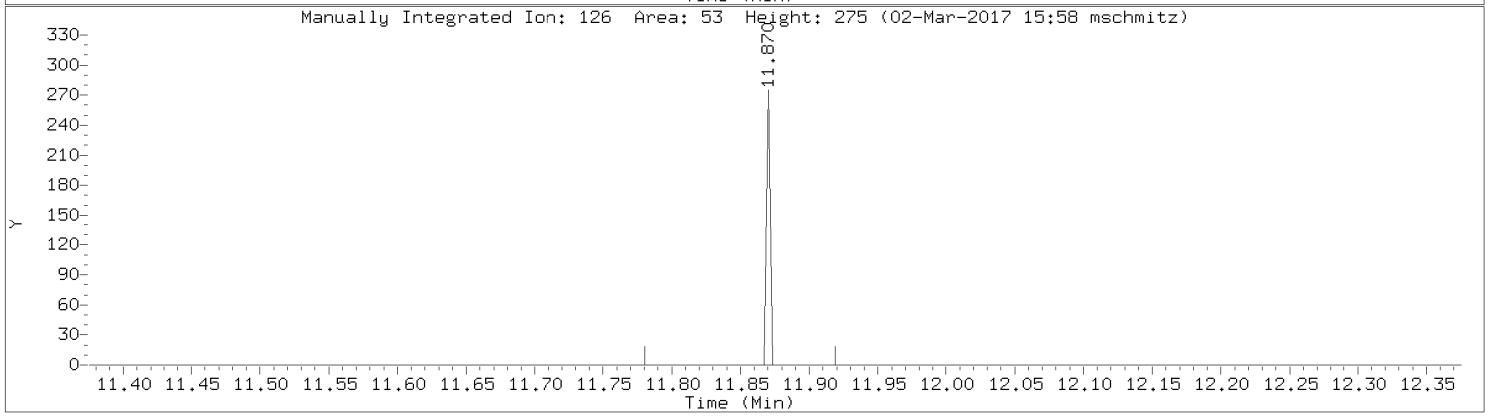
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Benzyl Chloride
CAS Number: 100-44-7



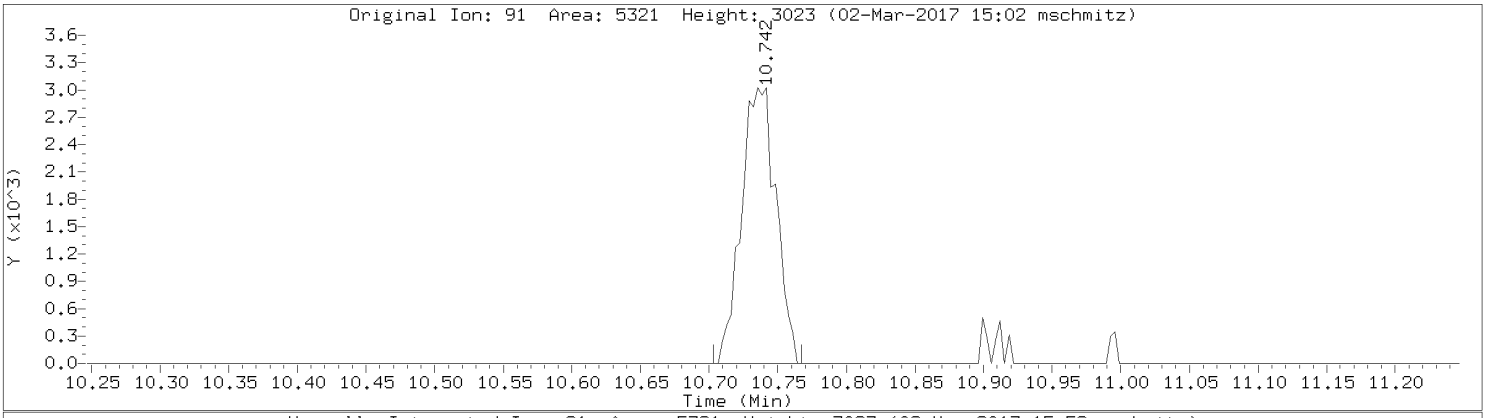


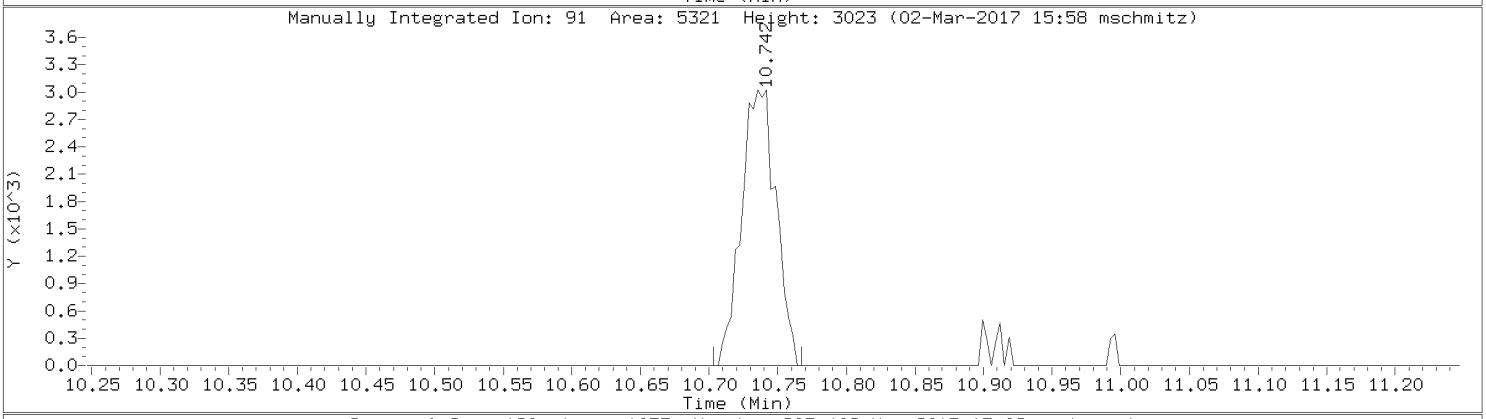


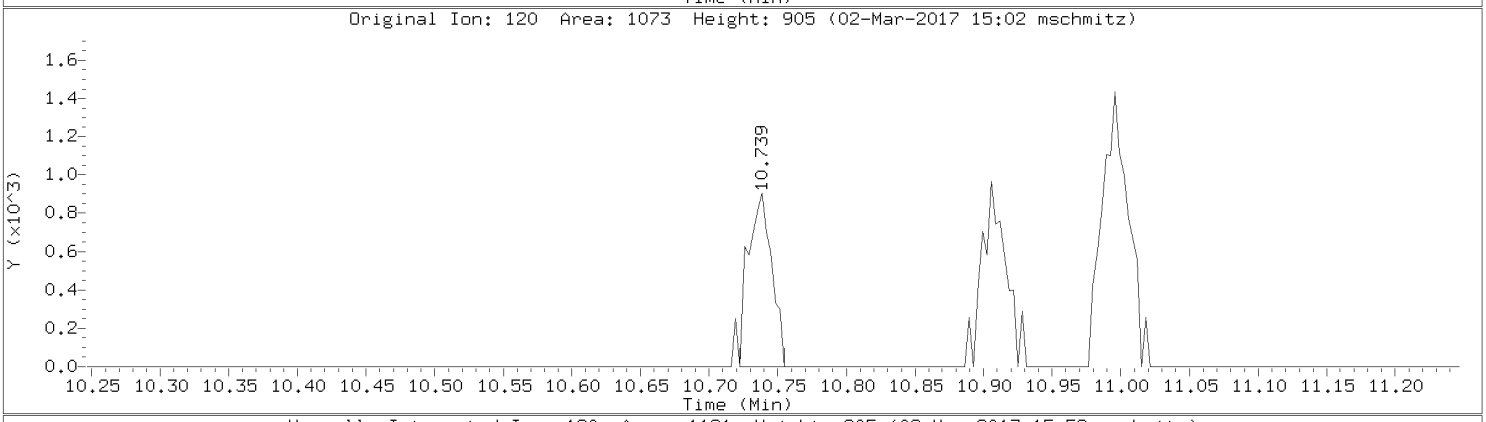


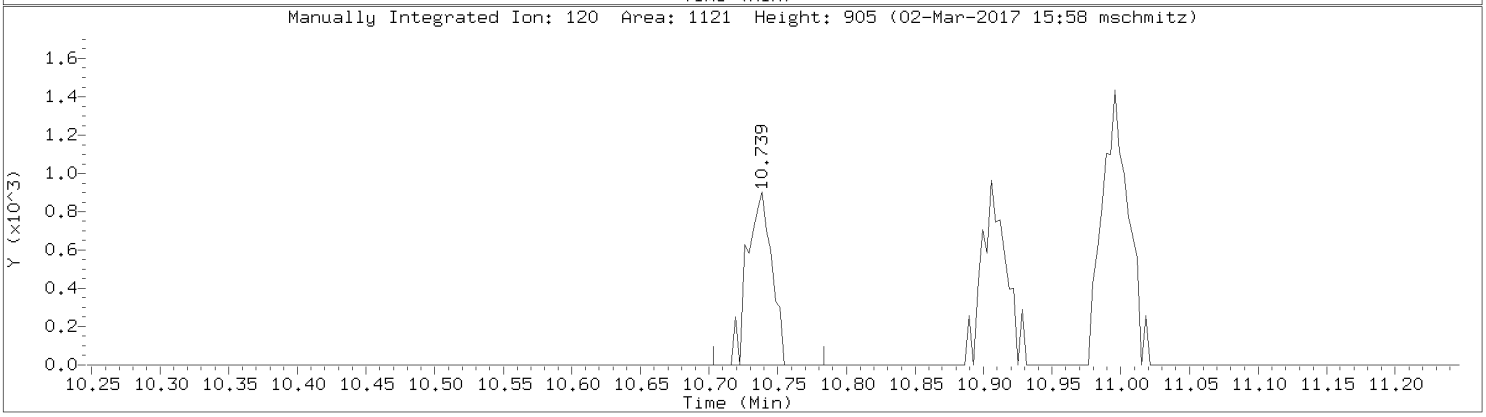
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: N-Propylbenzene
CAS Number: 103-65-1



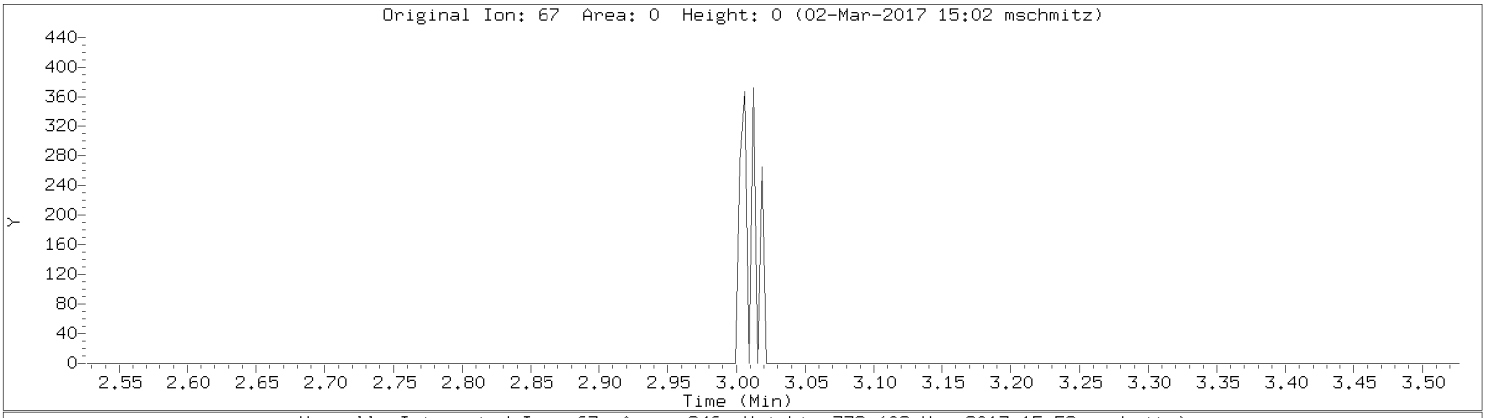


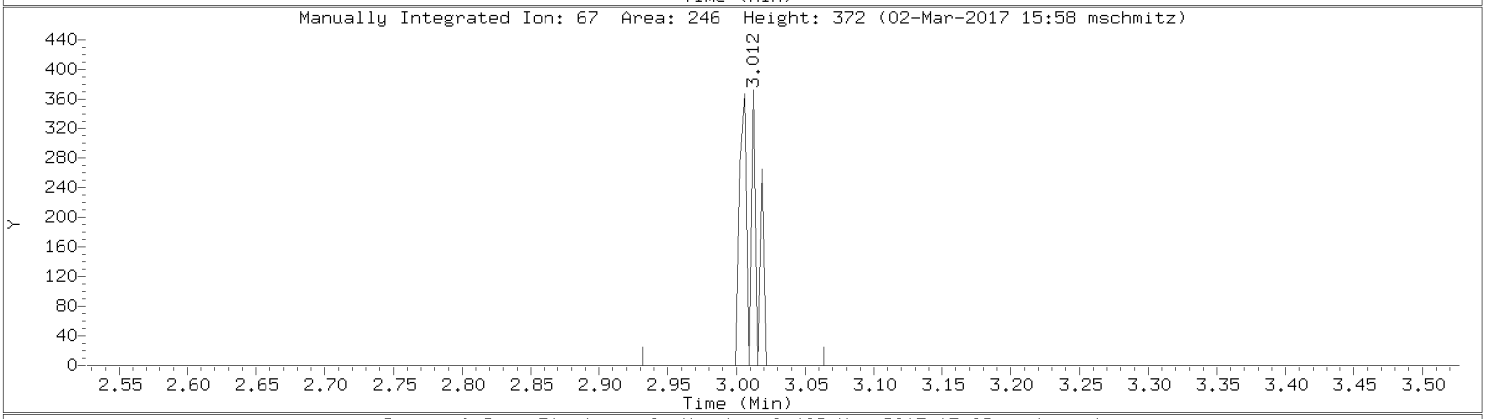


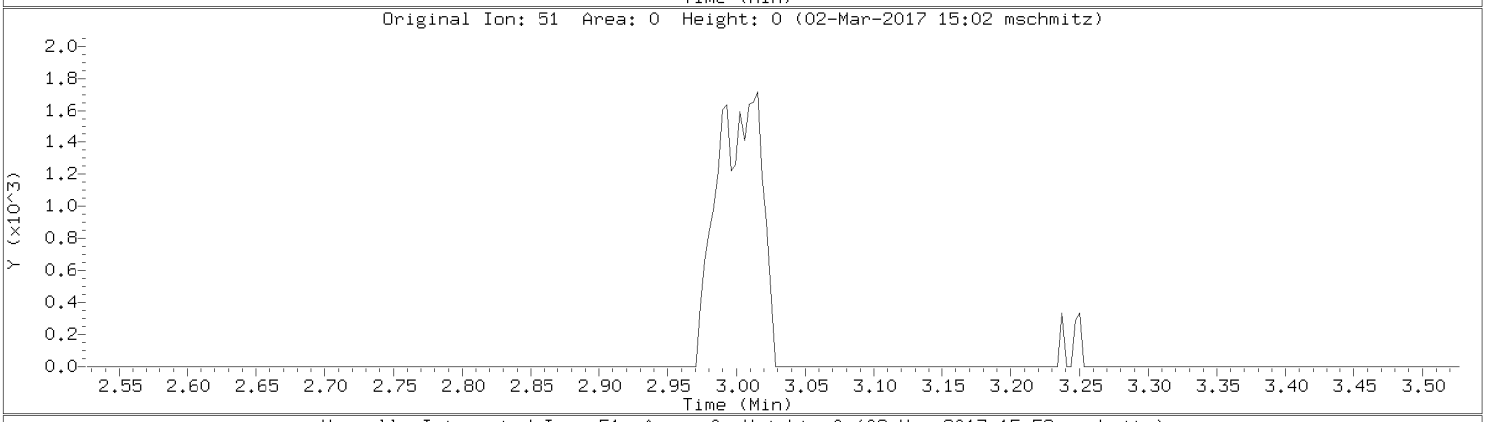


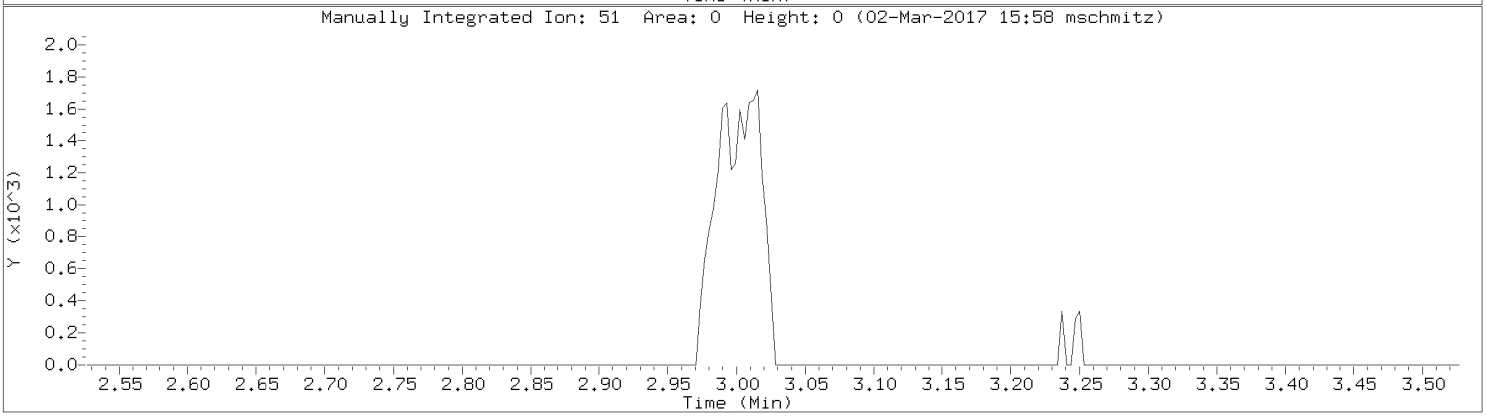
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

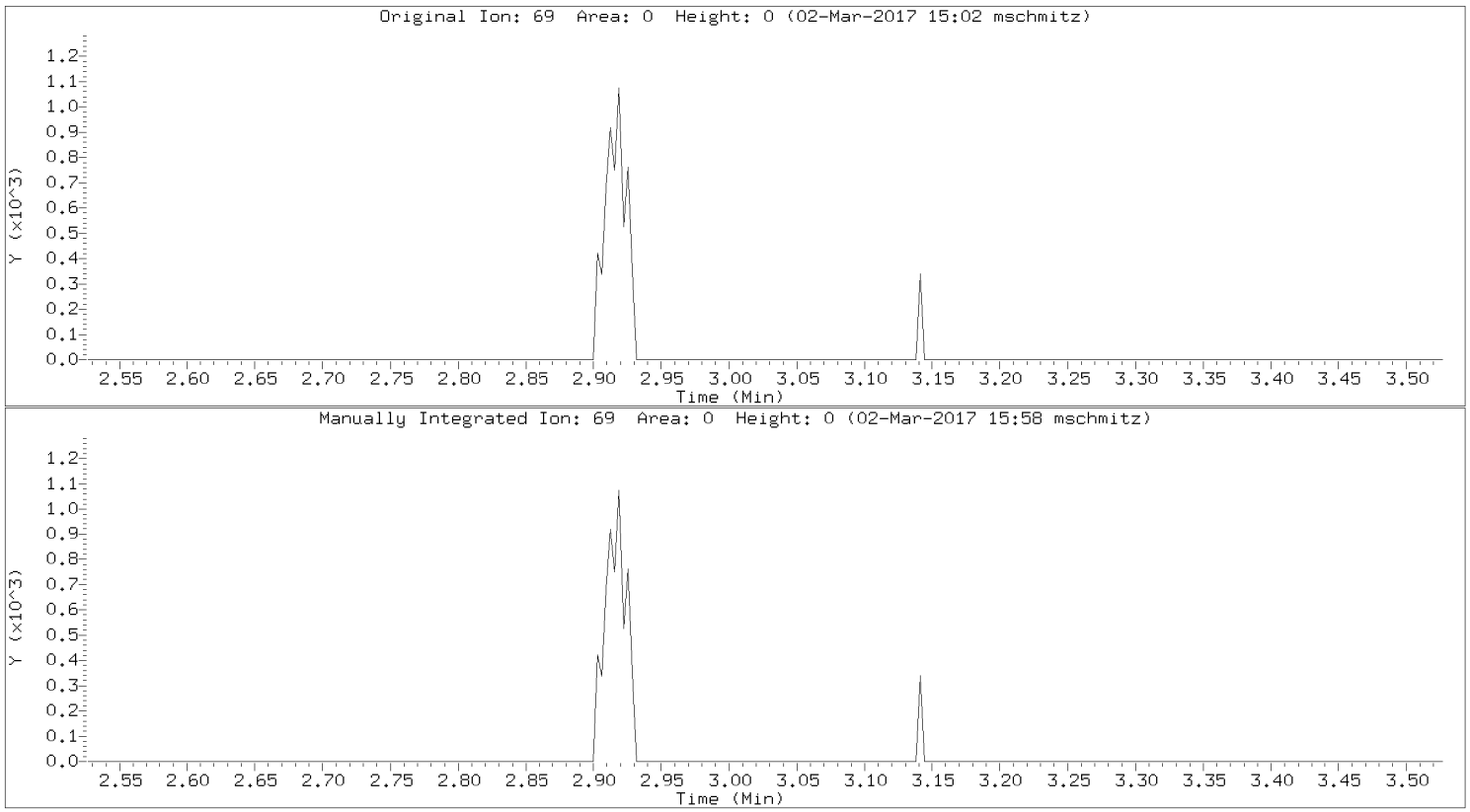






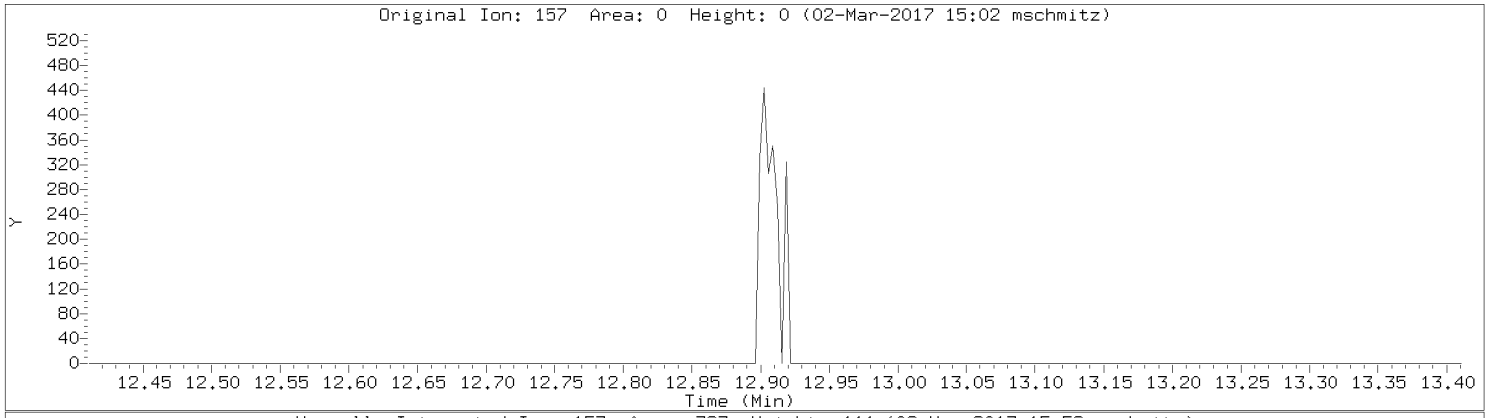


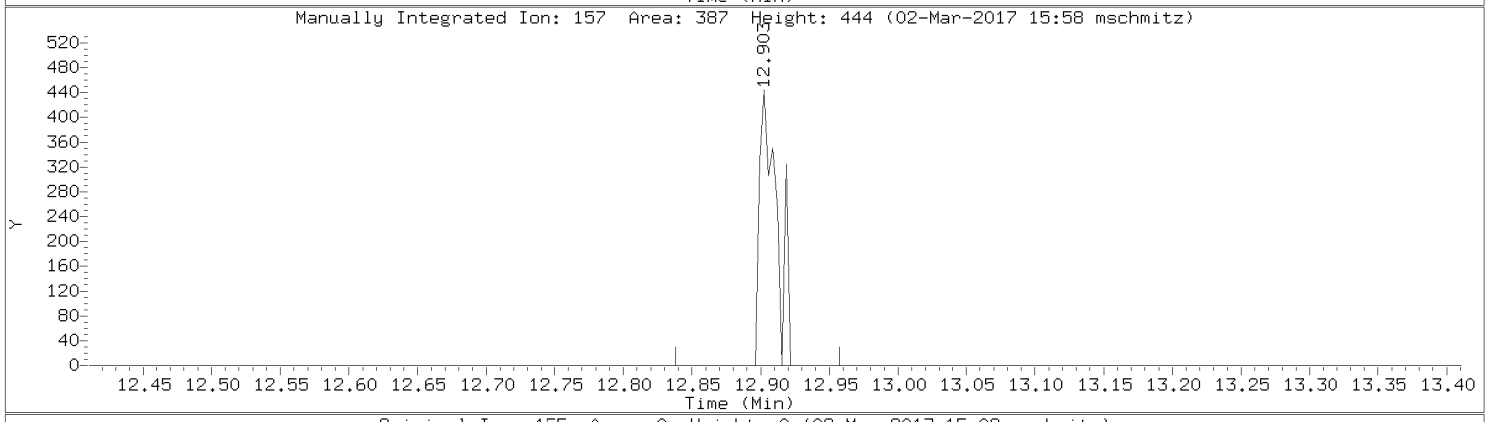
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

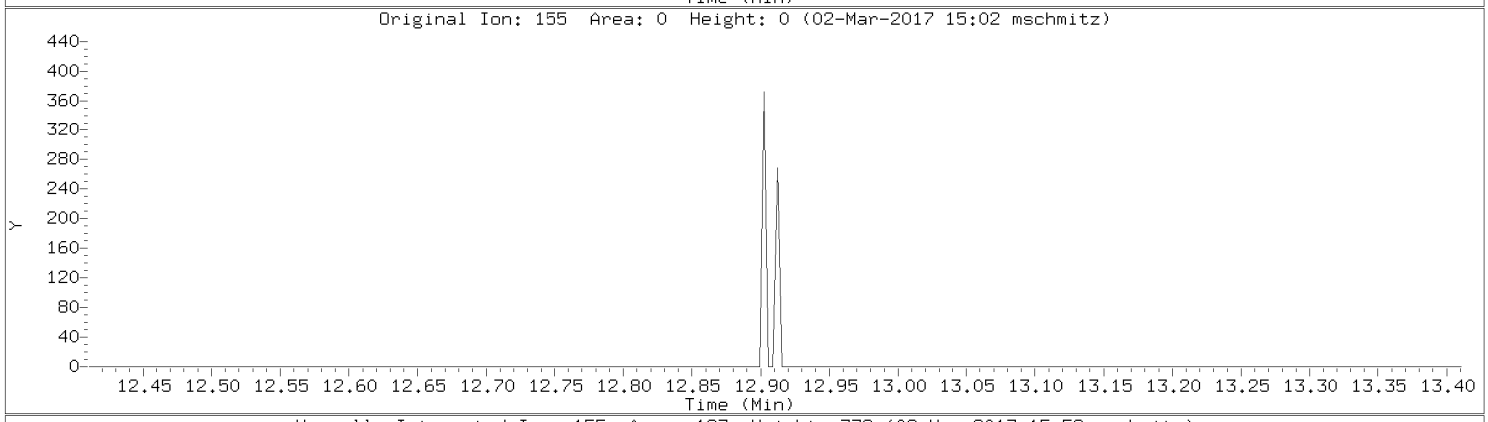


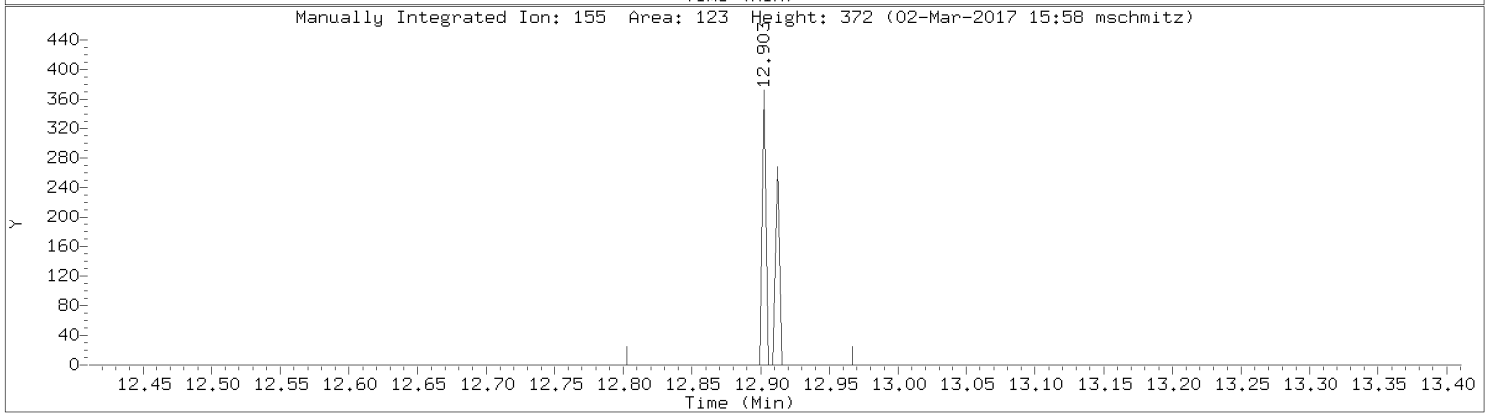
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

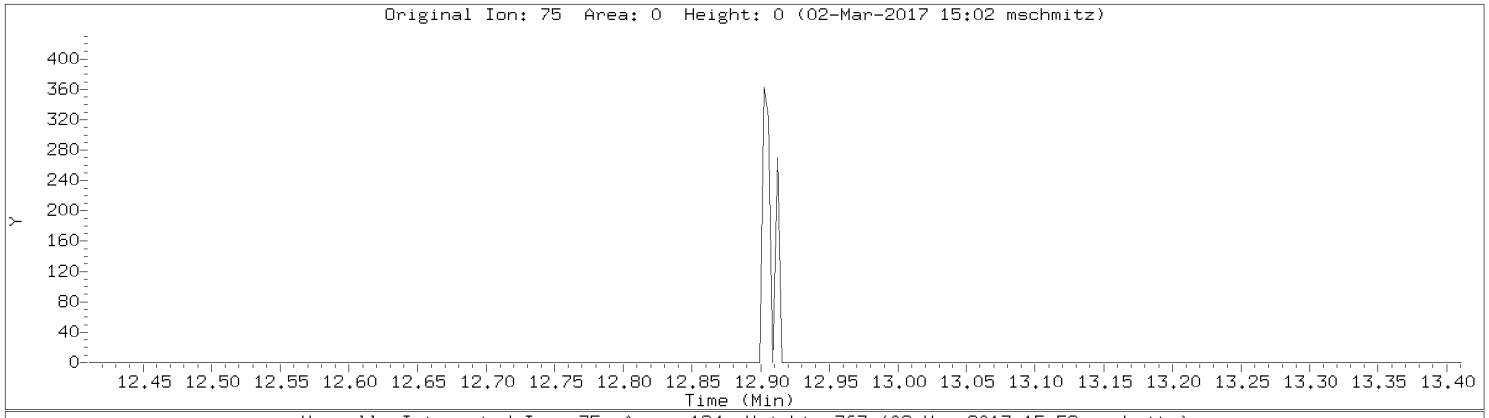


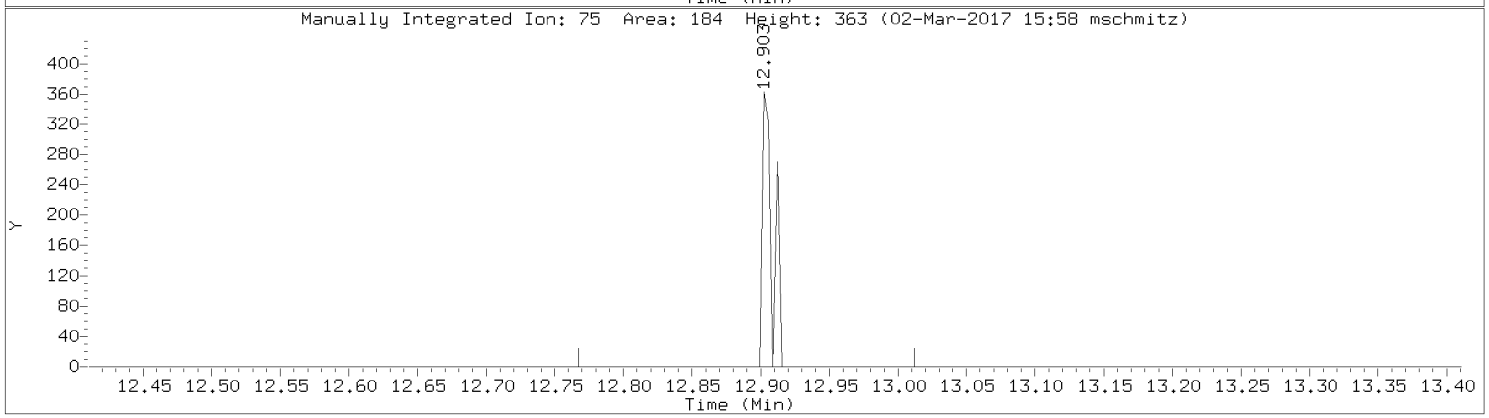






Data File: \\192.168.10.12\chem\10airB.i\030217.b/06109.D
Injection Date: 02-MAR-2017 11:19
Instrument: 10airB.i
Lab Sample ID: cal1





Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Lab Smp Id: cal2
Inj Date : 02-MAR-2017 11:46
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 15:59 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 11:19 Cal File: 06109.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.947	(0.527)	3252	0.20000	0.460
2	1,1-Difluoroethane	65	3.018	3.018	(0.539)	1639	0.20000	0.218(Q)
3	Chlorodifluoromethane	67	3.041	3.041	(0.543)	740	0.20000	0.164(QM)
4	Propylene	41	3.037	3.037	(0.543)	5938	0.20000	(a)
5	Dichlorodifluoromethane	85	3.066	3.066	(0.548)	9737	0.20000	0.190
6	Chloromethane	50	3.156	3.156	(0.564)	3263	0.20000	0.221
7	Dichlorotetrafluoroethane	85	3.163	3.163	(0.565)	7931	0.20000	0.223
8	Vinyl chloride	62	3.234	3.234	(0.578)	2593	0.20000	0.203
9	1,3-Butadiene	54	3.275	3.275	(0.585)	1940	0.20000	0.209(Q)
10	Bromomethane	94	3.407	3.407	(0.609)	2522	0.20000	0.214
11	Chloroethane	64	3.465	3.465	(0.619)	1360	0.20000	0.232(QM)
12	Ethanol	45	3.546	3.546	(0.633)	5189	1.00000	1.10
13	Vinyl Bromide	106	3.568	3.568	(0.638)	2764	0.20000	0.226
14	Isopentane	43	3.587	3.587	(0.641)	3504	0.20000	0.137(H)
15	Freon 123	83	3.587	3.587	(0.641)	6319	0.20000	0.388
16	Trichlorofluoromethane	101	3.658	3.658	(0.654)	8308	0.20000	0.236
17	Acrolein	56	3.671	3.671	(0.656)	1831	0.50000	0.579
18	Acetone	43	3.716	3.716	(0.664)	24228	1.00000	1.19(M)
19	Isopropyl Alcohol	45	3.767	3.767	(0.673)	23114	1.00000	1.11
20	1,1-Dichloroethene	61	3.893	3.893	(0.696)	4642	0.20000	0.227
21	Acrylonitrile	53	3.906	3.906	(0.698)	5108	0.50000	0.543
22	Freon 113	101	3.935	3.935	(0.703)	6079	0.20000	0.229
23	Methyl Acetate	43	3.951	3.951	(0.706)	7283	0.20000	0.235

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.963	3.963	(0.708)	15055	0.50000	0.564(Q)
	25 Methylene chloride	49	3.980	3.980	(0.711)	16513	1.00000	1.15
	26 Allyl Chloride	76	3.996	3.996	(0.714)	2156	0.50000	0.635(QM)
	27 Carbon Disulfide	76	4.108	4.108	(0.734)	4917	0.20000	0.182
	28 trans-1,2-dichloroethene	96	4.253	4.253	(0.760)	2141	0.20000	0.186(Q)
	29 Methyl Tert Butyl Ether	73	4.311	4.311	(0.770)	17125	0.50000	0.523
	30 Vinyl Acetate	43	4.372	4.372	(0.781)	4581	0.20000	0.316(M)
	31 1,1-Dichloroethane	63	4.381	4.381	(0.783)	4450	0.20000	0.199
$	32 Hexane-d14(S)	66	4.481	4.481	(0.801)	397064	10.0000	9.72
	33 Methyl Ethyl Ketone	72	4.558	4.558	(0.814)	1030	0.20000	0.241(QM)
	34 n-Hexane	57	4.574	4.574	(0.817)	4411	0.20000	0.215(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.822)	8461	0.20000	0.213(M)
	36 Ethyl Acetate	43	4.722	4.722	(0.844)	5346	0.20000	0.203(Q)
	37 cis-1,2-Dichloroethene	96	4.700	4.700	(0.840)	2514	0.20000	0.196
	38 Ethyl Tert-Butyl Ether	59	4.832	4.832	(0.863)	20811	0.50000	0.501
	39 Chloroform	83	4.816	4.816	(0.860)	5081	0.20000	0.191
	40 Tetrahydrofuran	42	5.005	5.005	(0.894)	2979	0.20000	0.210
	41 1,1,1-Trichloroethane	97	5.217	5.217	(0.932)	6500	0.20000	0.208
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	5326	0.20000	0.224
	43 Benzene	78	5.452	5.452	(0.974)	8372	0.20000	0.202
	44 Carbon tetrachloride	117	5.475	5.475	(0.978)	6316	0.20000	0.202
	45 Cyclohexane	56	5.478	5.478	(0.979)	4269	0.20000	0.206
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(1.001)	20967	0.20000	0.222
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1283793	10.0000	
	48 2,2,4-Trimethylpentane	57	5.758	5.758	(1.029)	34058	0.50000	0.531
	49 Heptane	43	5.877	5.877	(1.050)	4704	0.20000	0.203
	50 1,2-Dichloropropane	63	5.951	5.951	(1.063)	3190	0.20000	0.213
	51 Trichloroethene	130	5.973	5.973	(1.067)	4574	0.20000	0.212
	52 Methyl methacrylate	69	6.050	6.050	(1.081)	2943	0.20000	0.210
	53 1,4-Dioxane	88	6.089	6.089	(1.088)	1944	0.20000	0.201
	54 Bromodichloromethane	83	6.070	6.070	(1.084)	6368	0.20000	0.208
	55 Methylcyclohexane	98	6.420	6.420	(1.147)	2326	0.20000	0.201(Q)
	56 Methyl Isobutyl Ketone	43	6.539	6.539	(1.168)	16711	0.50000	0.529
	57 cis-1,3-Dichloropropene	75	6.578	6.578	(1.175)	4624	0.20000	0.273
	58 trans-1,3-Dichloropropene	75	6.979	6.979	(1.247)	3360	0.20000	0.230
$	59 Toluene-d8 (S)	98	7.069	7.069	(1.263)	1213296	10.0000	10.6
	60 1,1,2-Trichloroethane	97	7.137	7.137	(1.275)	3801	0.20000	0.221
	61 Toluene	91	7.143	7.143	(1.276)	11436	0.20000	0.221
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.854)	13320	0.50000	0.469
	63 n-Octane	43	7.578	7.578	(0.877)	6028	0.20000	0.196
	64 Dibromochloromethane	129	7.671	7.671	(0.888)	5941	0.20000	0.211
	65 1,2-Dibromoethane	107	7.902	7.902	(0.915)	5784	0.20000	0.199
	66 Tetrachloroethene	166	7.976	7.976	(0.923)	7038	0.20000	0.225
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	899058	10.0000	
	68 Chlorobenzene	112	8.684	8.684	(1.005)	8865	0.20000	0.199
	69 Ethyl Benzene	91	8.928	8.928	(1.033)	12470	0.20000	0.189
	70 m&p-Xylene	91	9.076	9.076	(1.051)	20159	0.40000	0.388(M)
	71 n-Nonane	43	9.465	9.465	(1.096)	4537	0.20000	0.169
	72 Bromoform	173	9.471	9.471	(1.096)	3665	0.20000	0.270
	73 Styrene	104	9.500	9.500	(1.100)	6483	0.20000	0.219(M)
	74 o-Xylene	91	9.568	9.568	(1.108)	10001	0.20000	0.189
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	5378	0.20000	0.185
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	15207	0.20000	0.203(M)
	77 N-Propylbenzene	91	10.735	10.735	(1.243)	12256	0.20000	0.170

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	10605	0.20000	0.232(M)
79	1,3,5-Trimethylbenzene	105	10.995	10.995	(1.273)	9860	0.20000	0.174
80	n-Decane	57	11.378	11.378	(2.033)	3858	0.20000	0.352
81	Tert-Butyl Benzene	119	11.497	11.497	(1.331)	11017	0.20000	0.185
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	9813	0.20000	0.184
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.365)	6190	0.20000	0.153
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	13440	0.20000	0.180
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.372)	427230	10.0000	8.63
86	Benzyl Chloride	91	11.860	11.860	(1.373)	3597	0.20000	0.380(M)
87	1,4-Dichlorobenzene	146	11.880	11.880	(1.375)	6332	0.20000	0.181(Q)
88	p-Isopropyltoluene	119	11.986	11.986	(1.387)	11000	0.20000	0.150(M)
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	9180	0.20000	0.174
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	5537	0.20000	0.235
91	N-Butylbenzene	91	12.462	12.462	(1.443)	7061	0.20000	0.106
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.494)	957	0.20000	0.261(Q)
93	1,2,4-Trichlorobenzene	180	14.047	14.047	(1.626)	513	0.20000	0.411(QM)
94	Naphthalene	128	14.175	14.175	(1.641)	1944	0.20000	0.392(M)
95	Hexachlorobutadiene	225	14.416	14.416	(1.669)	2904	0.20000	0.186

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Report Date: 02-Mar-2017 15:59

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06110.D
Lab Smp Id: cal2
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

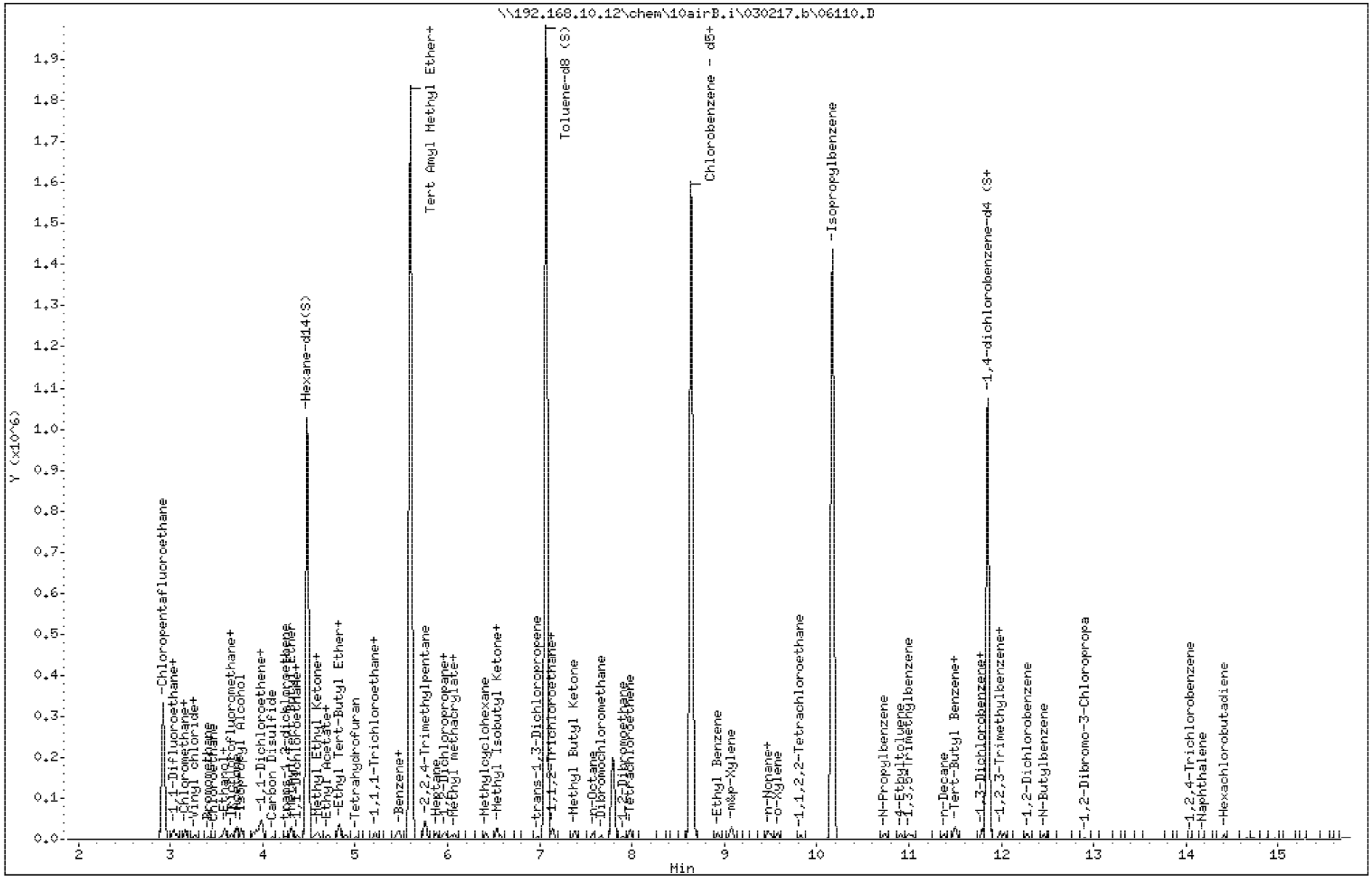
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1283793	-9.22
67 Chlorobenzene - d	951026	570616	1331436	899058	-5.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

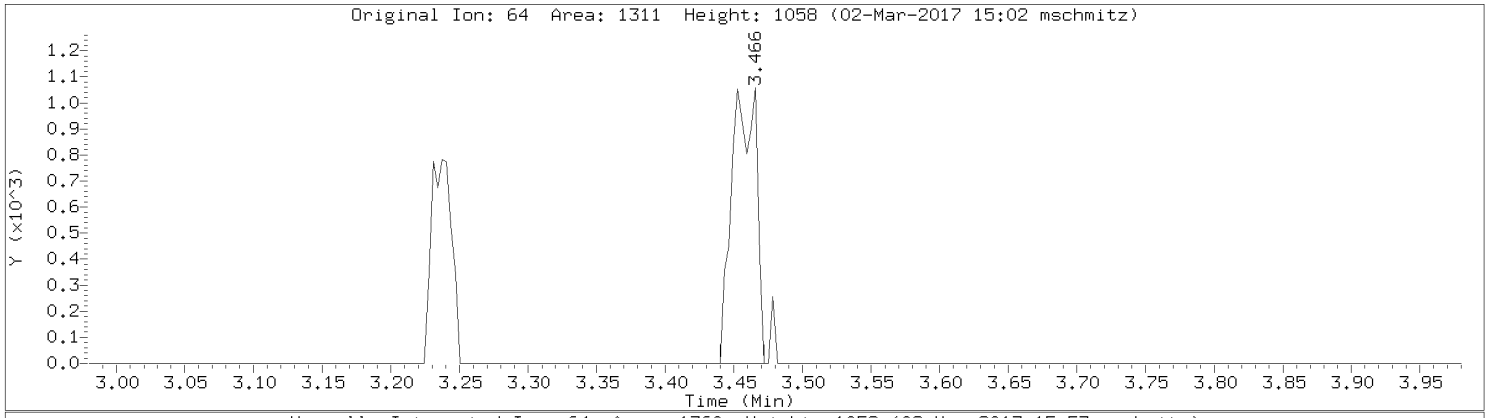
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Date : 02-MAR-2017 11:46
Client ID:
Sample Info:

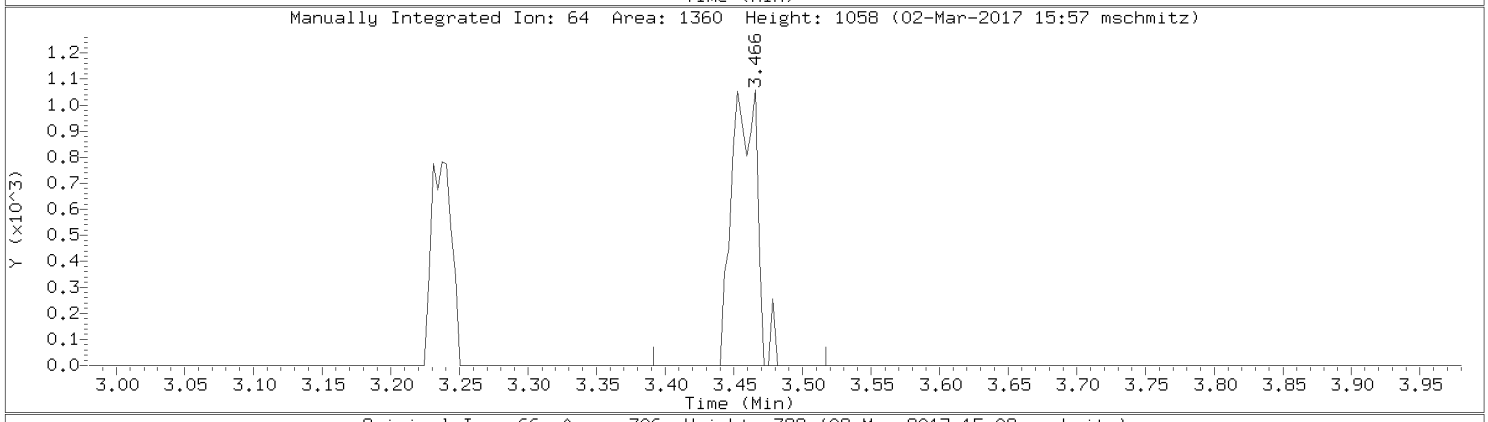
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

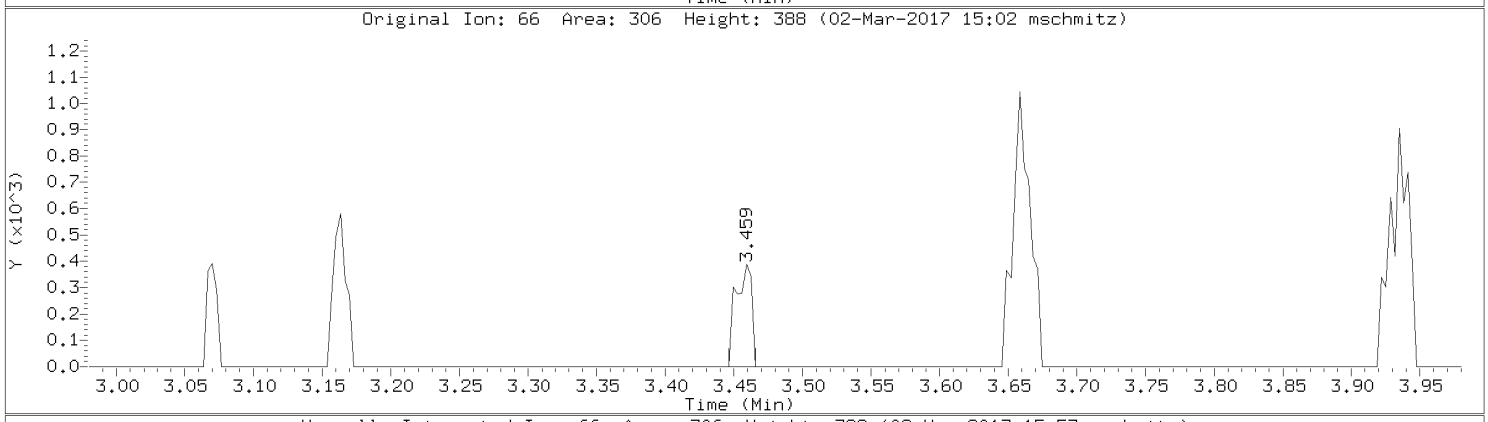


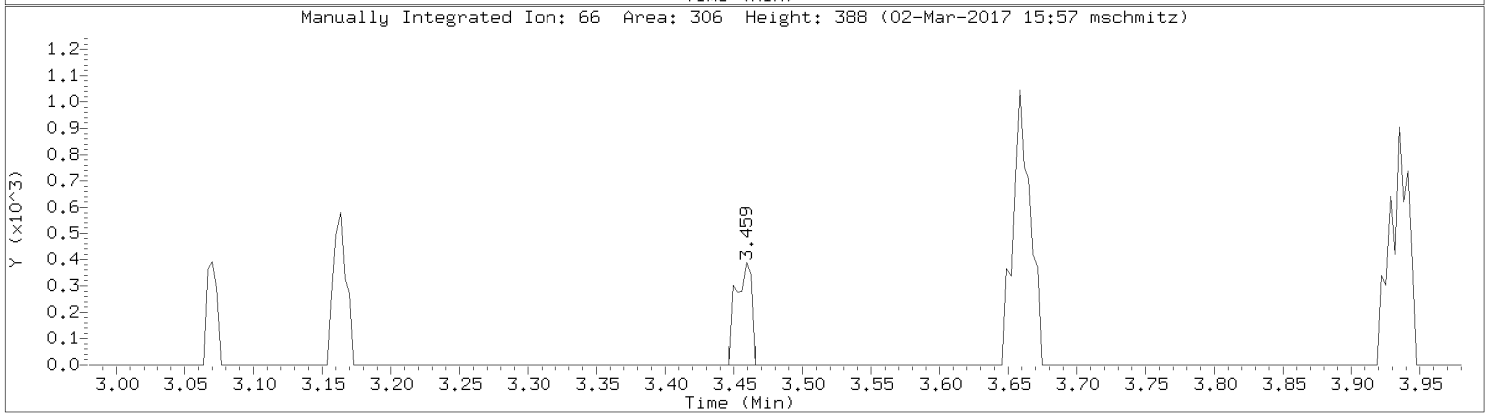
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Chloroethane
CAS Number: 75-00-3



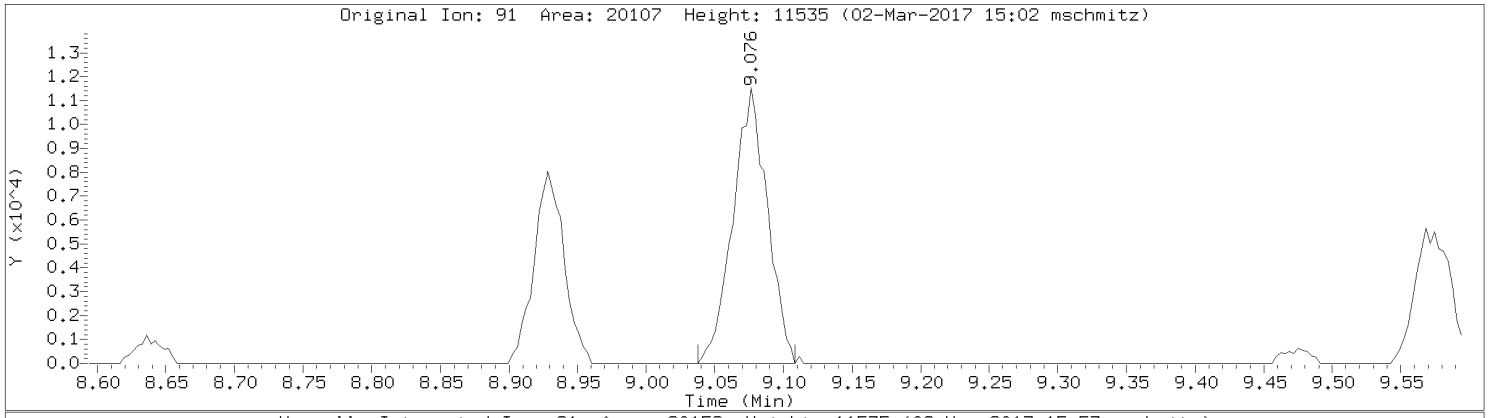


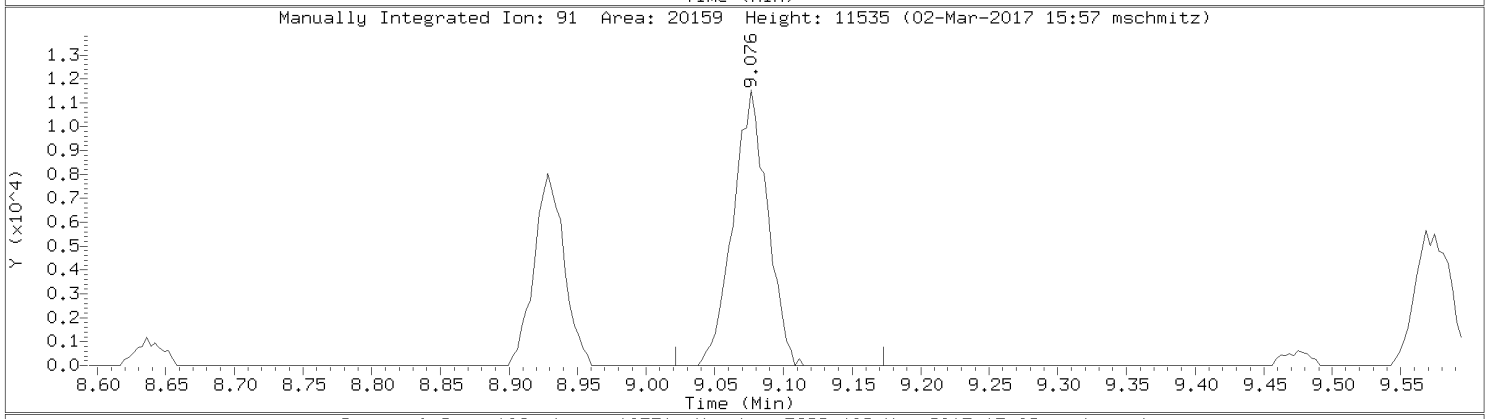


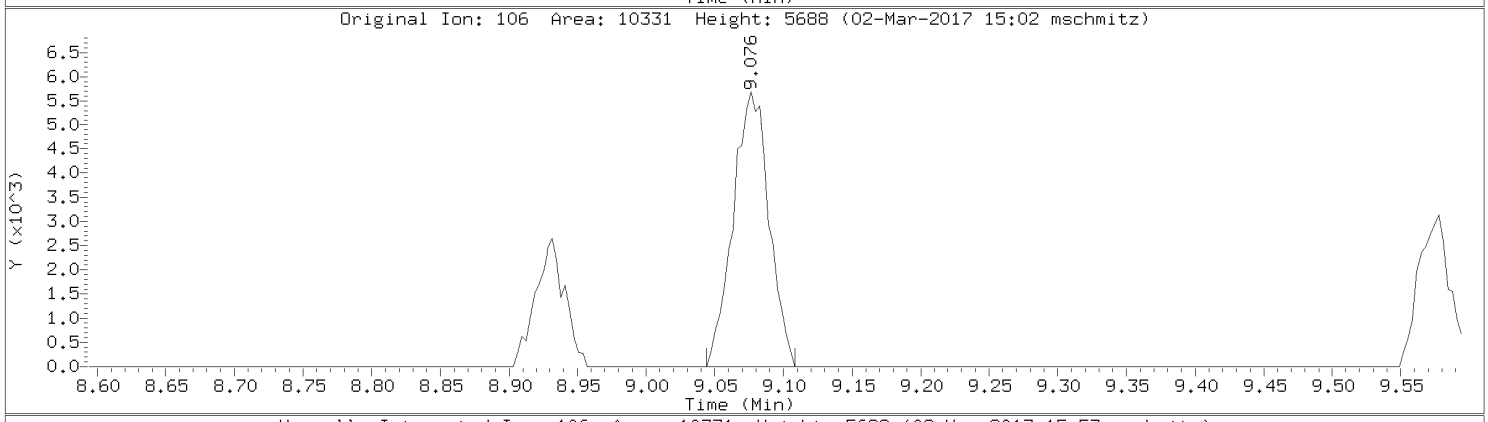


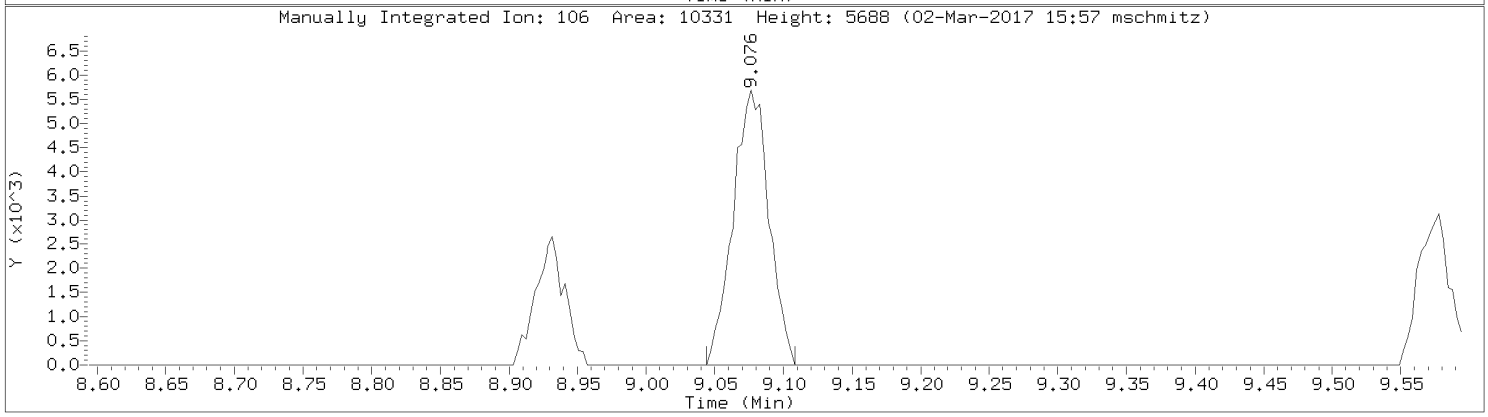
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: m&p-Xylene
CAS Number: 7816-60-0



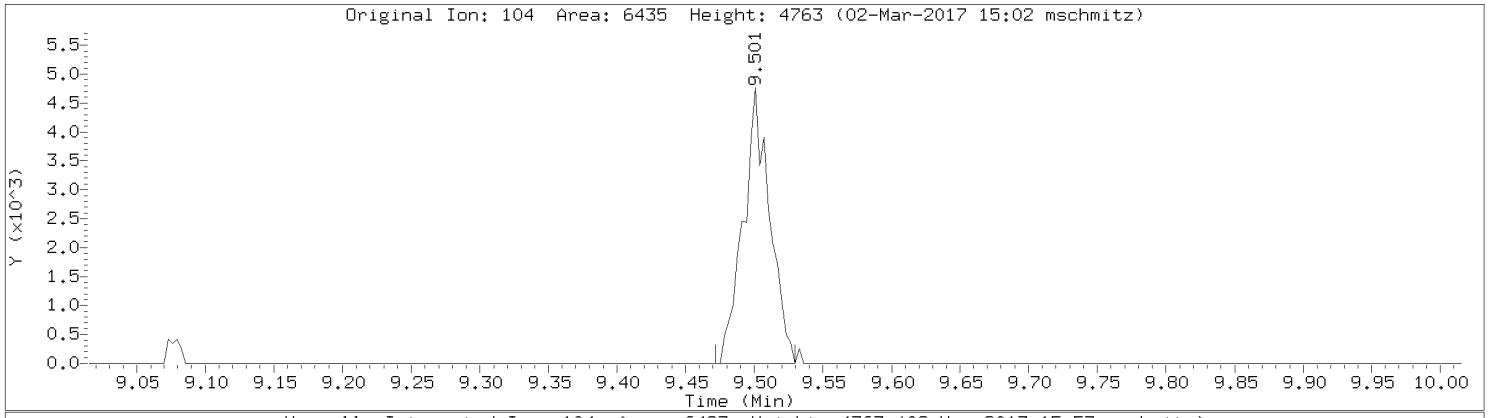


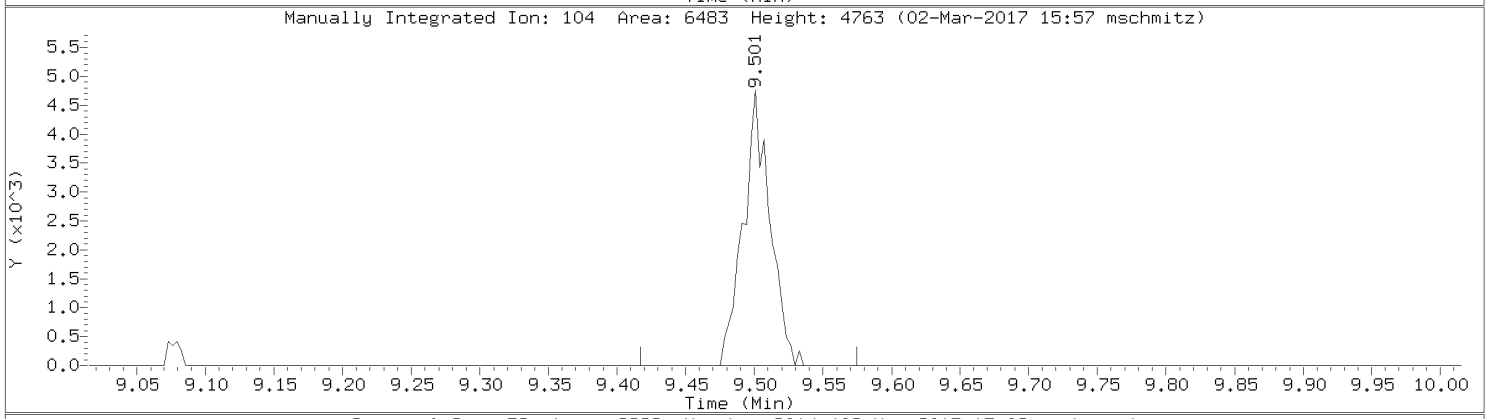


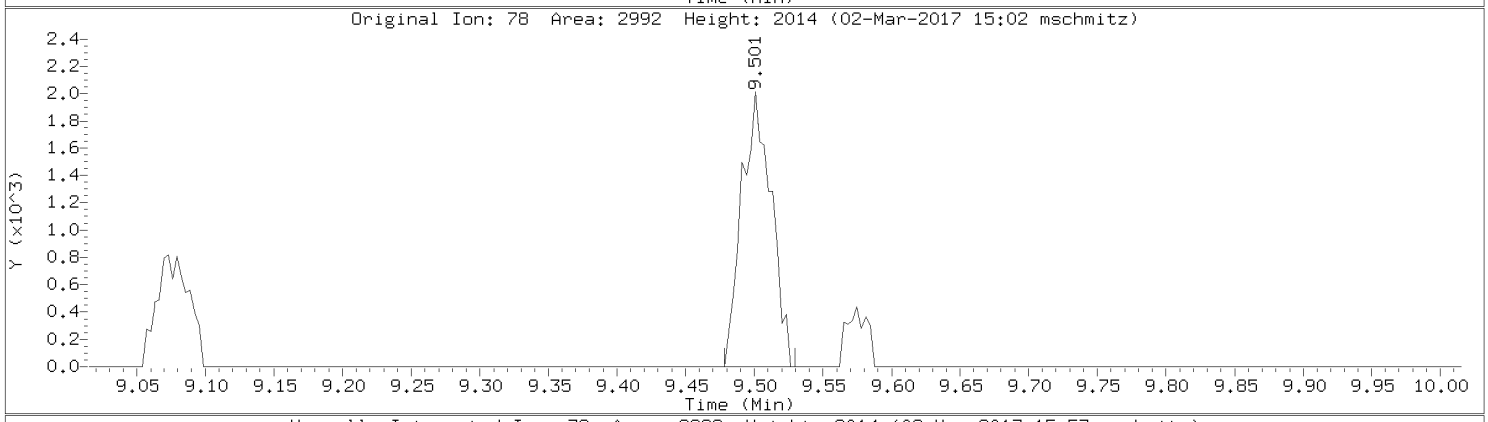


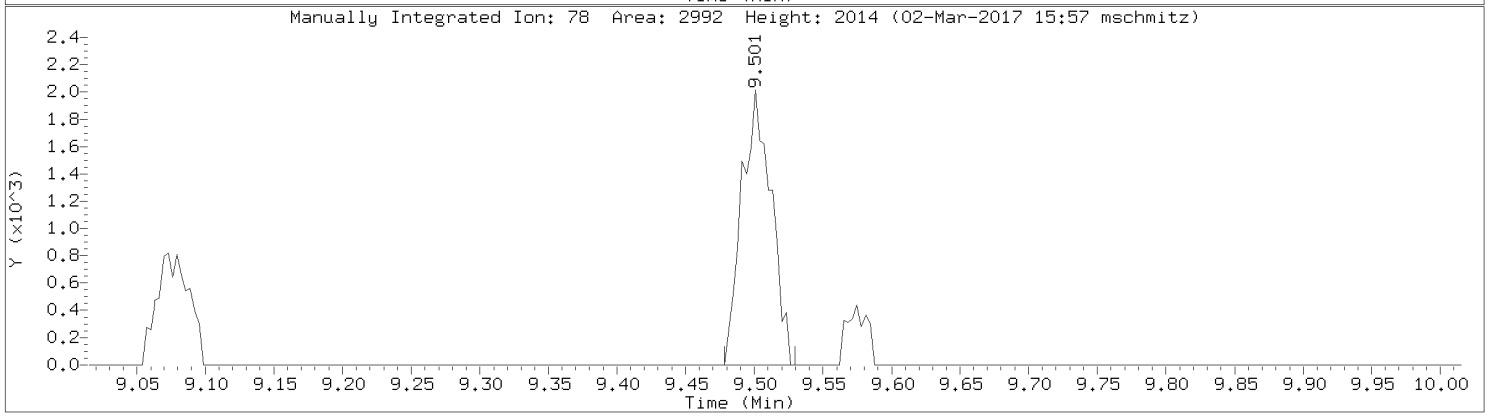
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Styrene
CAS Number: 100-42-5

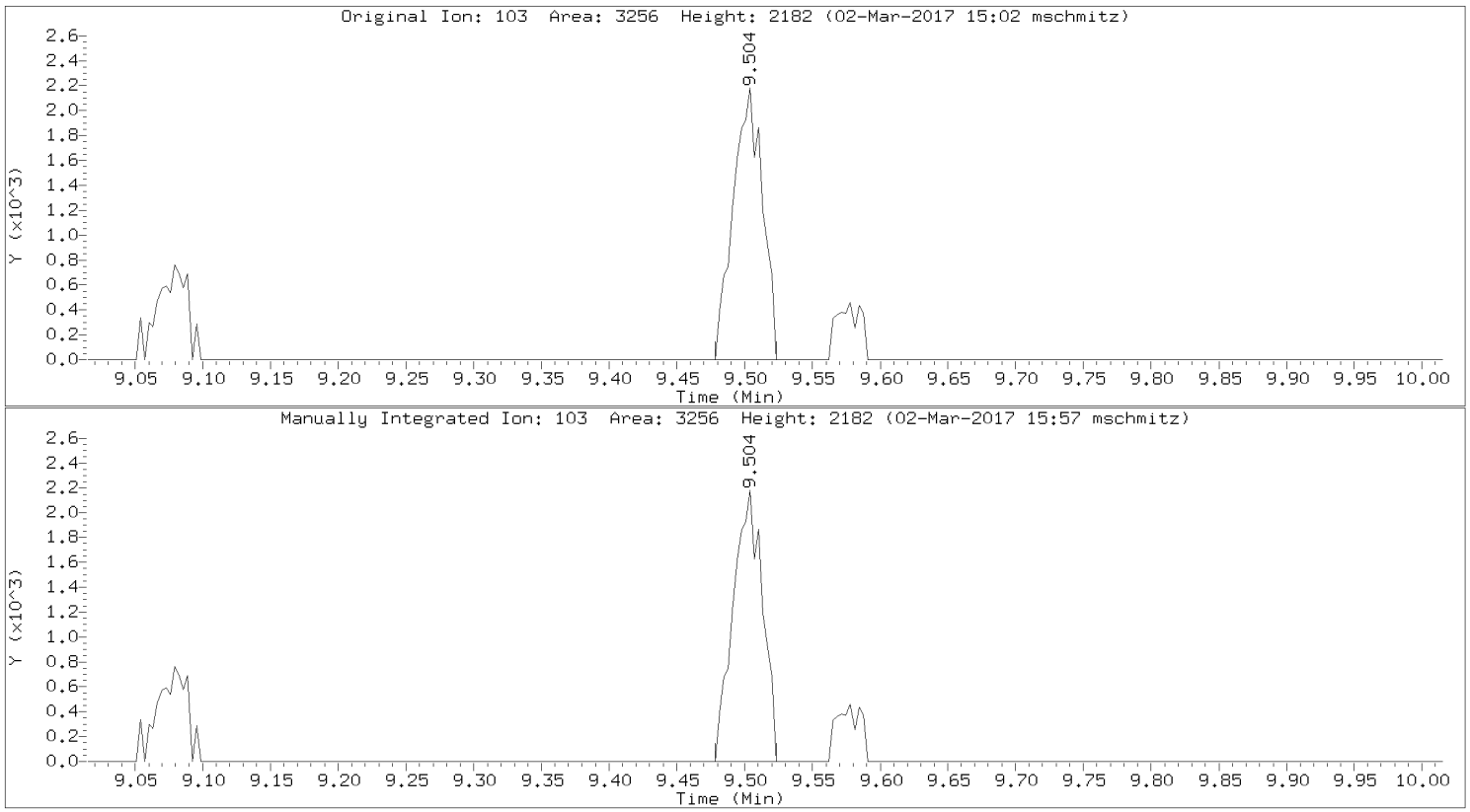






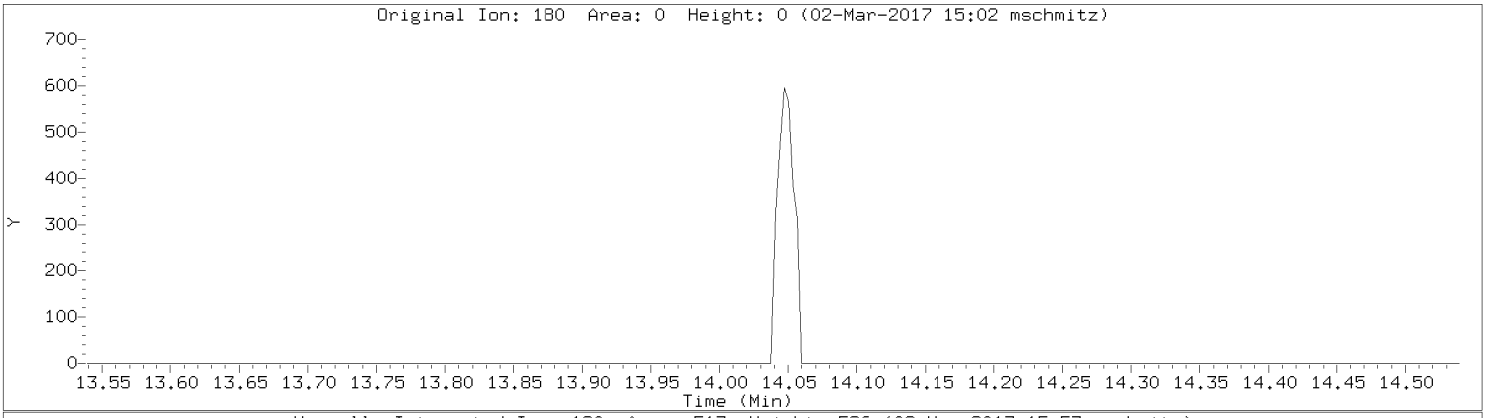


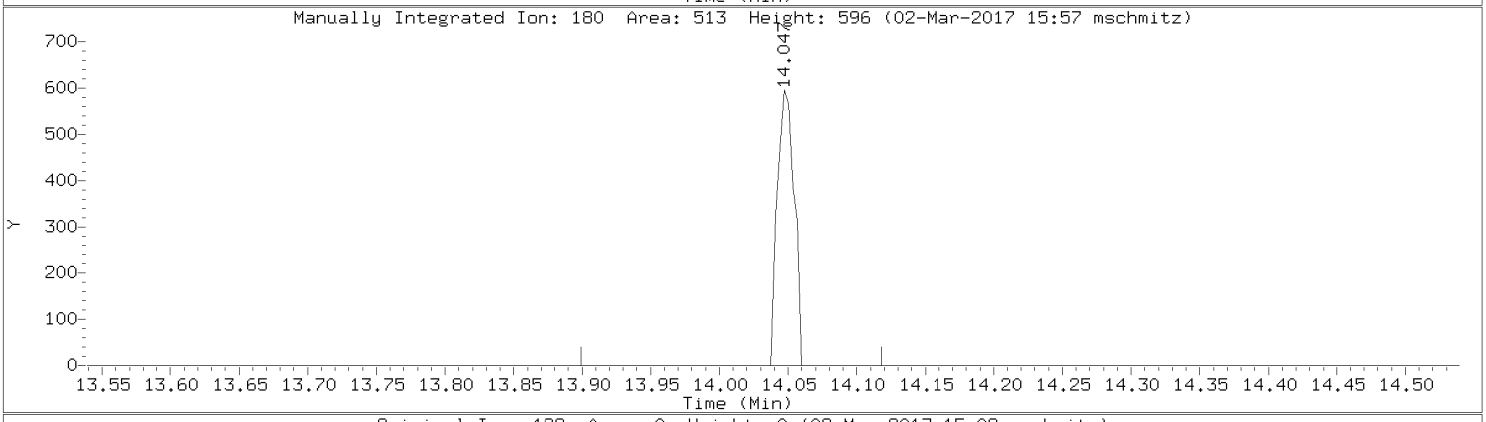
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

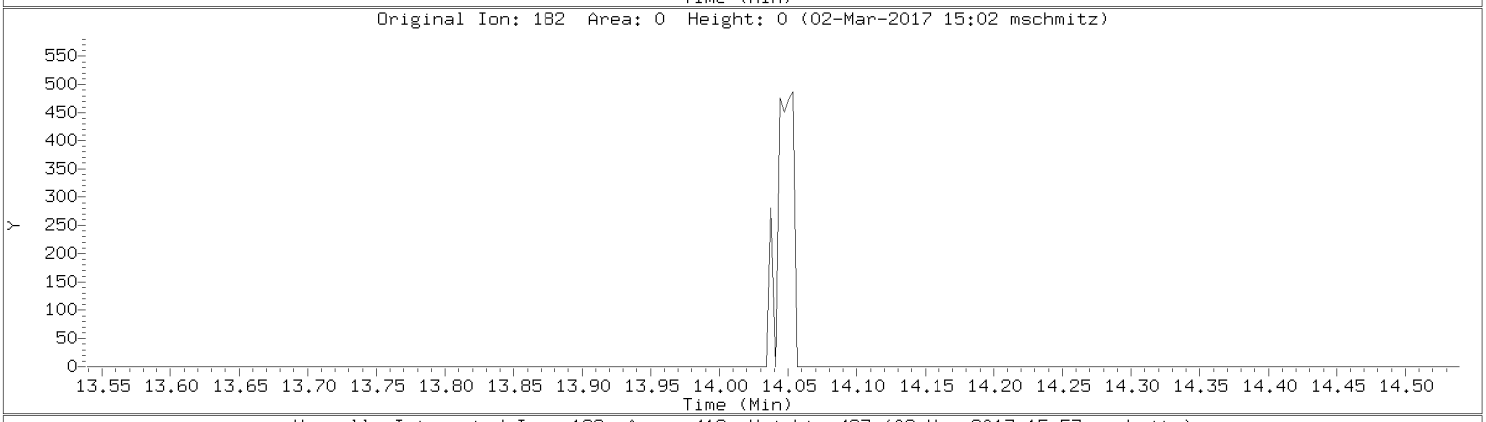


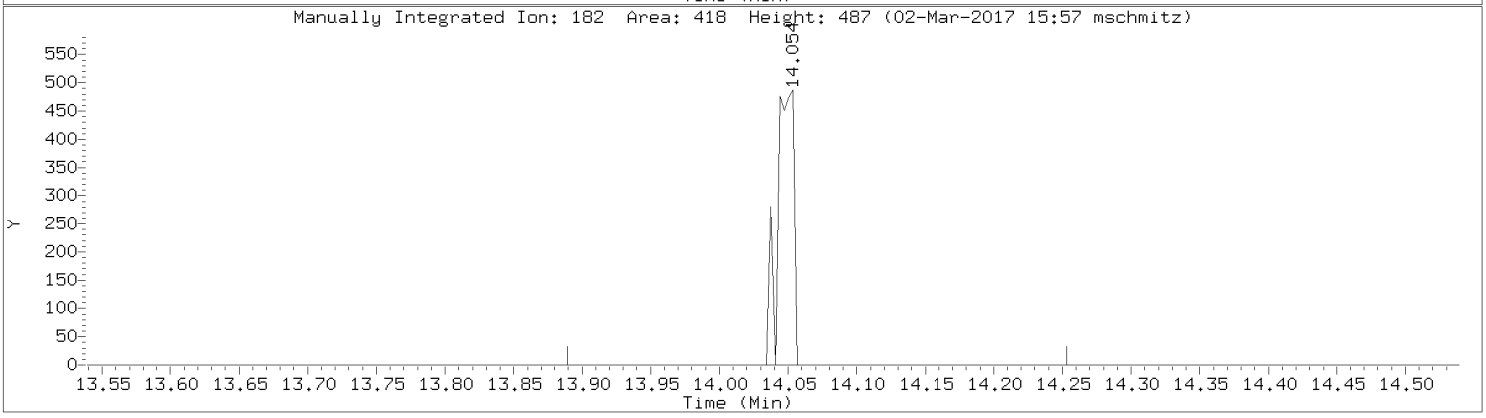
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

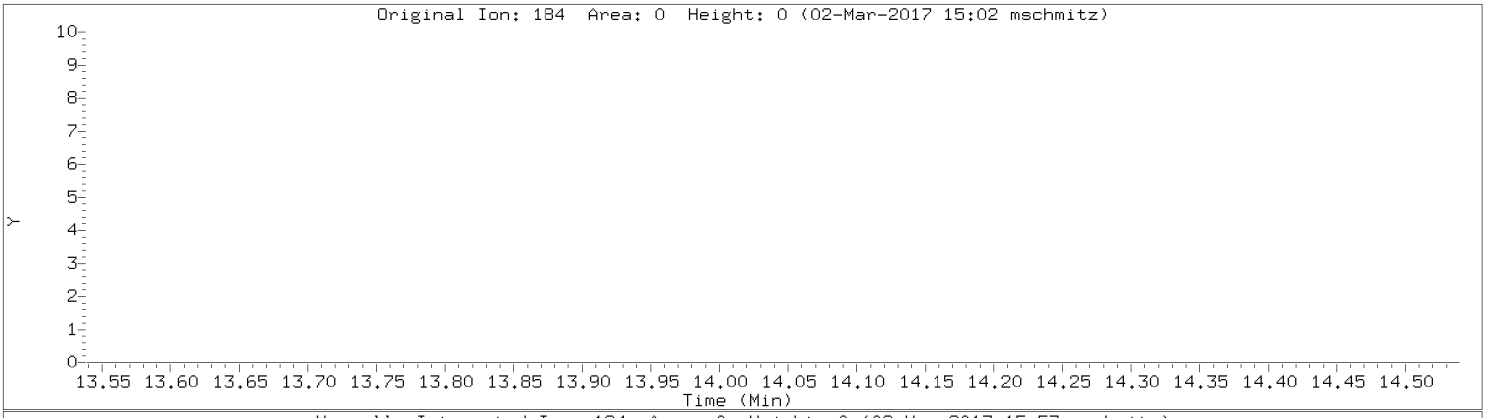


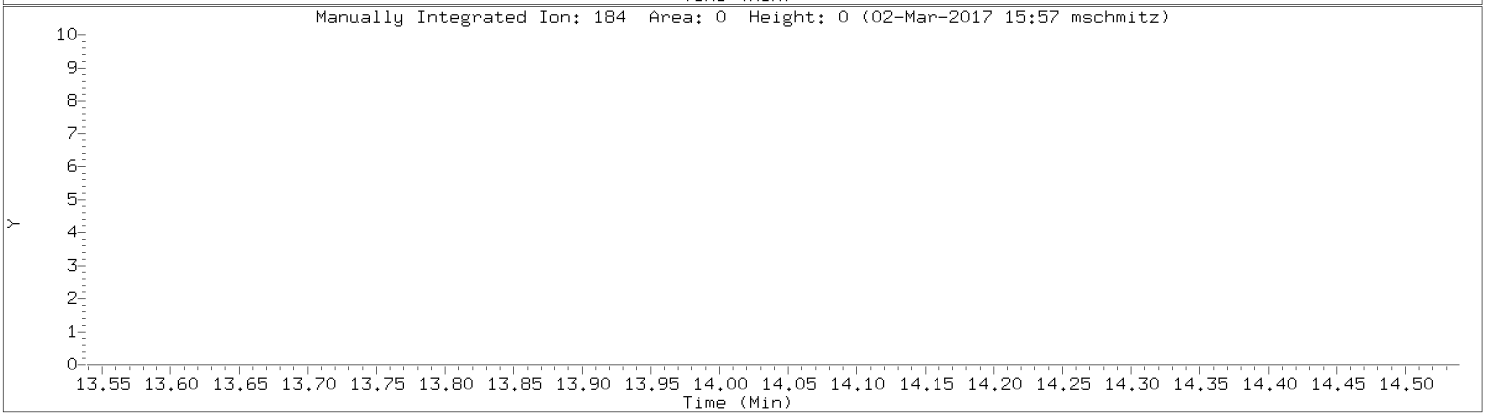






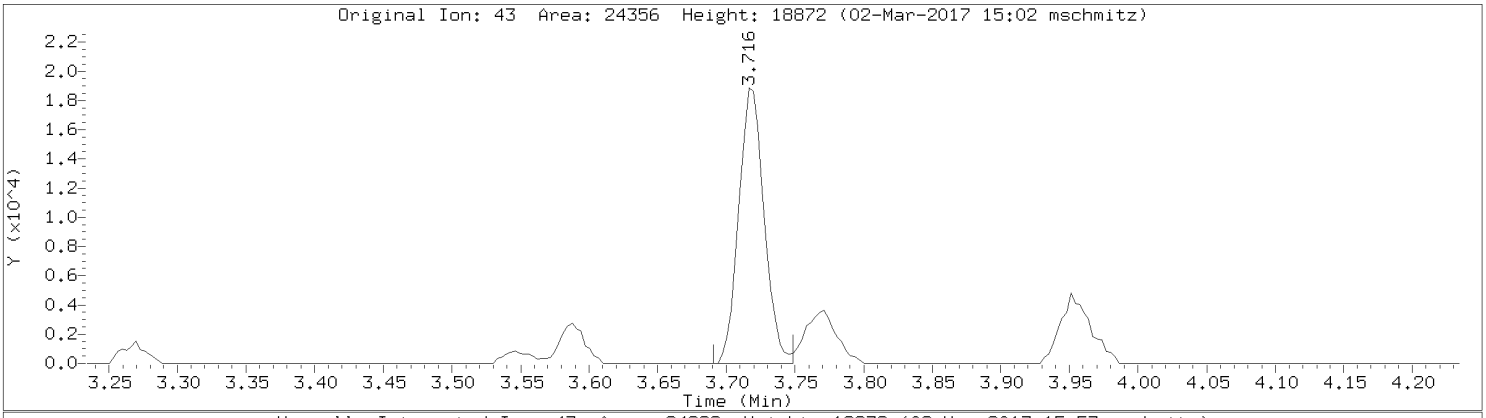
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

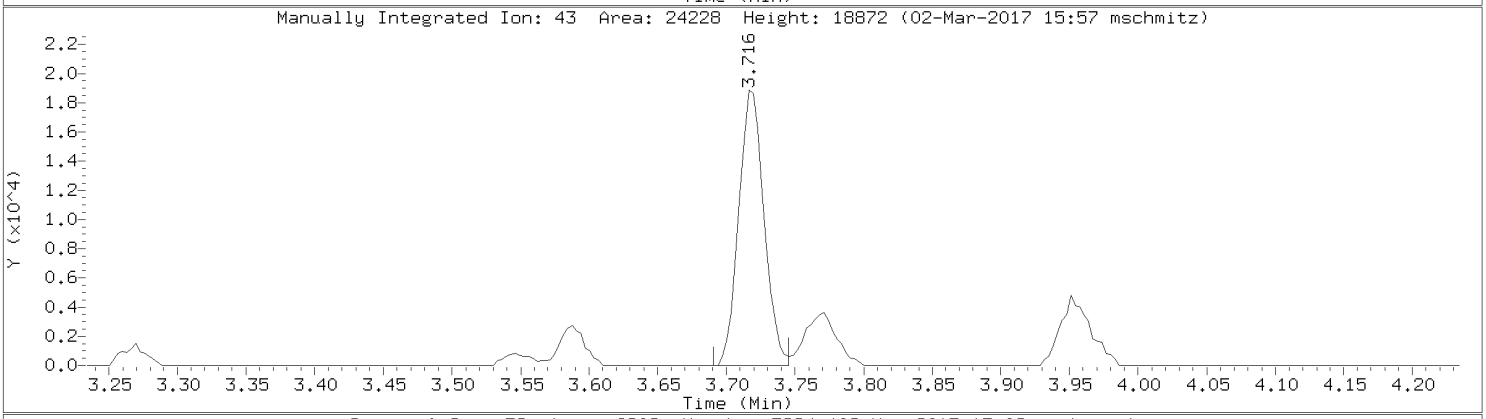


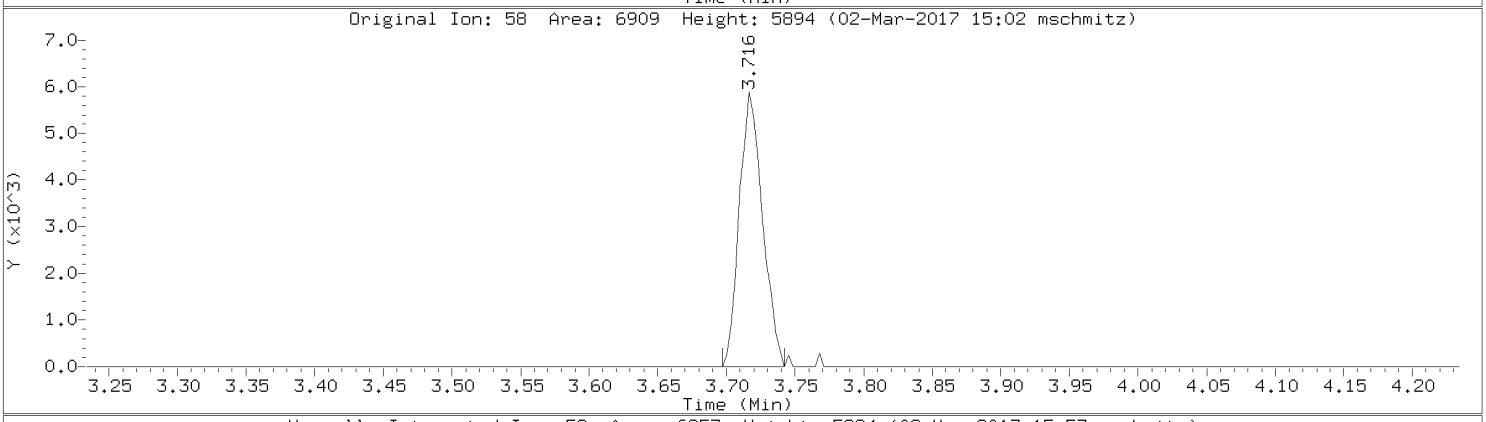


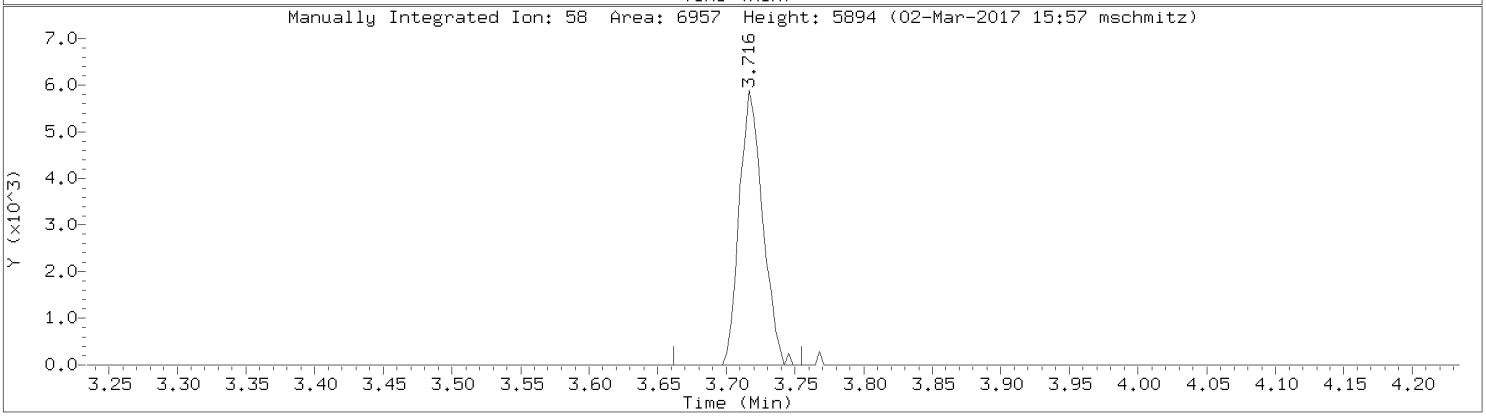
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Acetone
CAS Number: 67-64-1



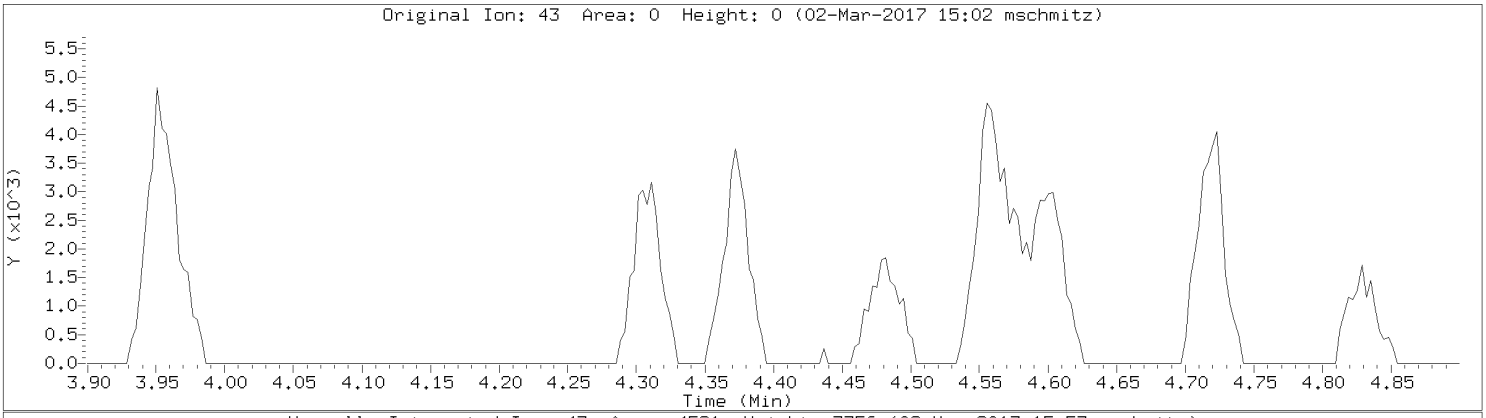


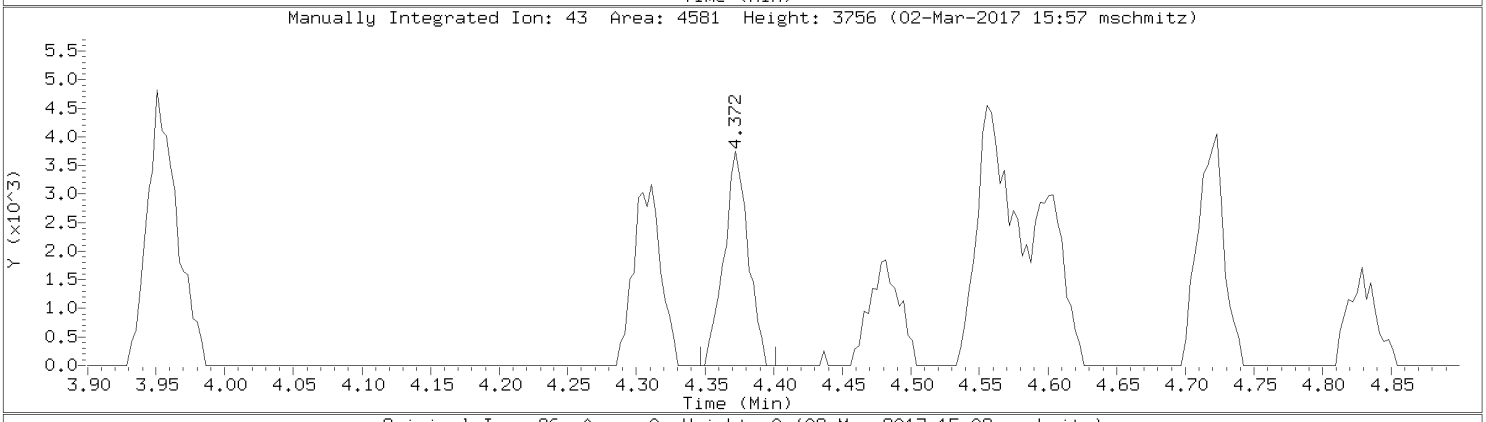


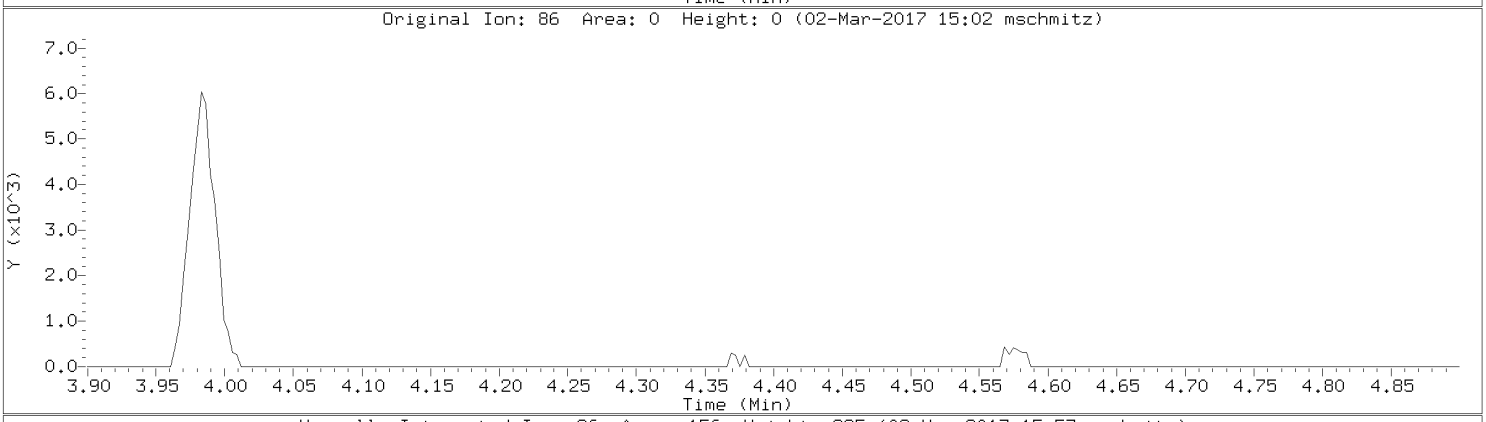


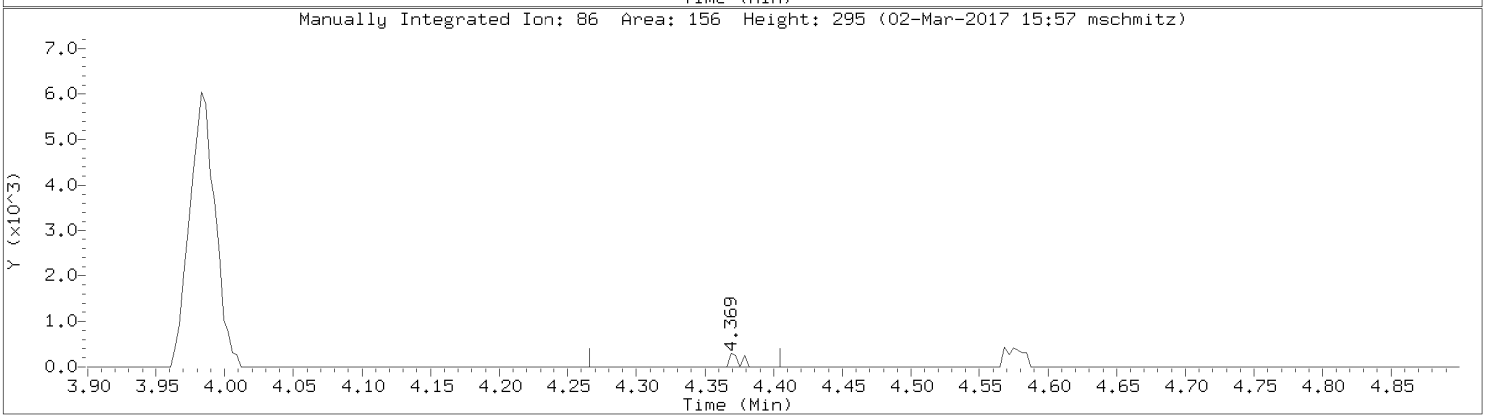
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Vinyl Acetate
CAS Number: 108-05-4



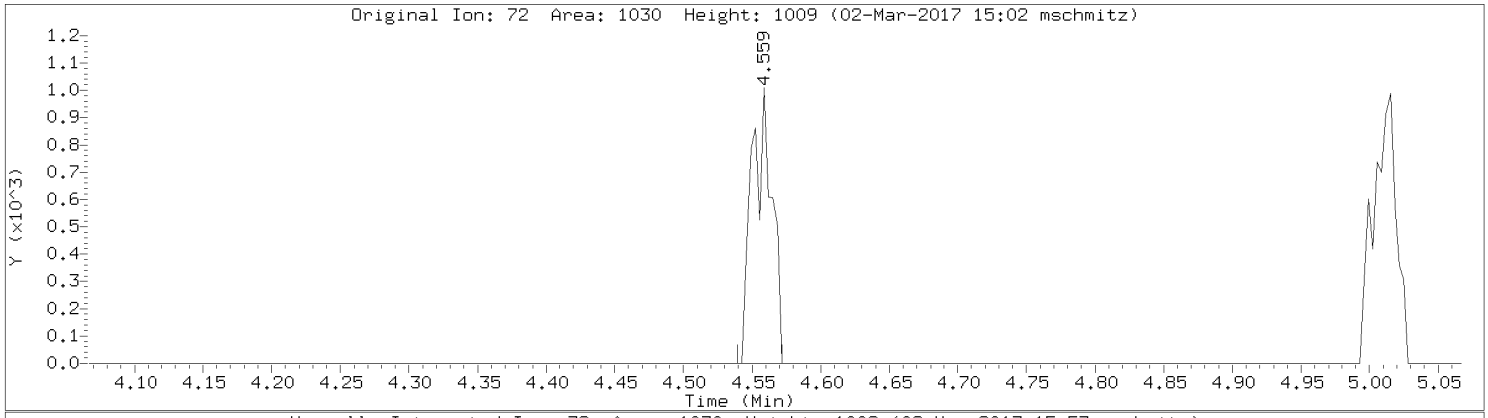


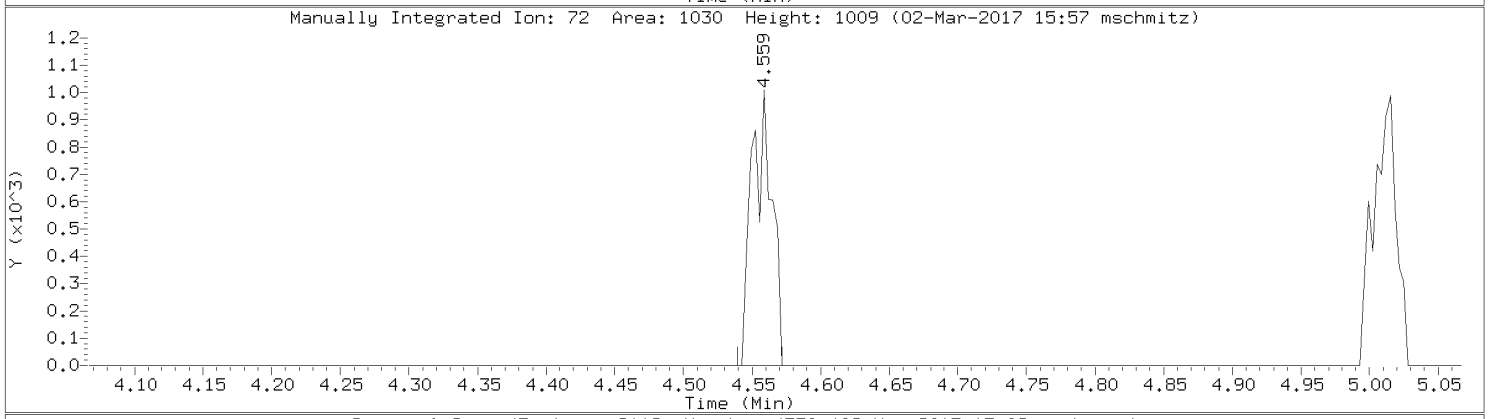


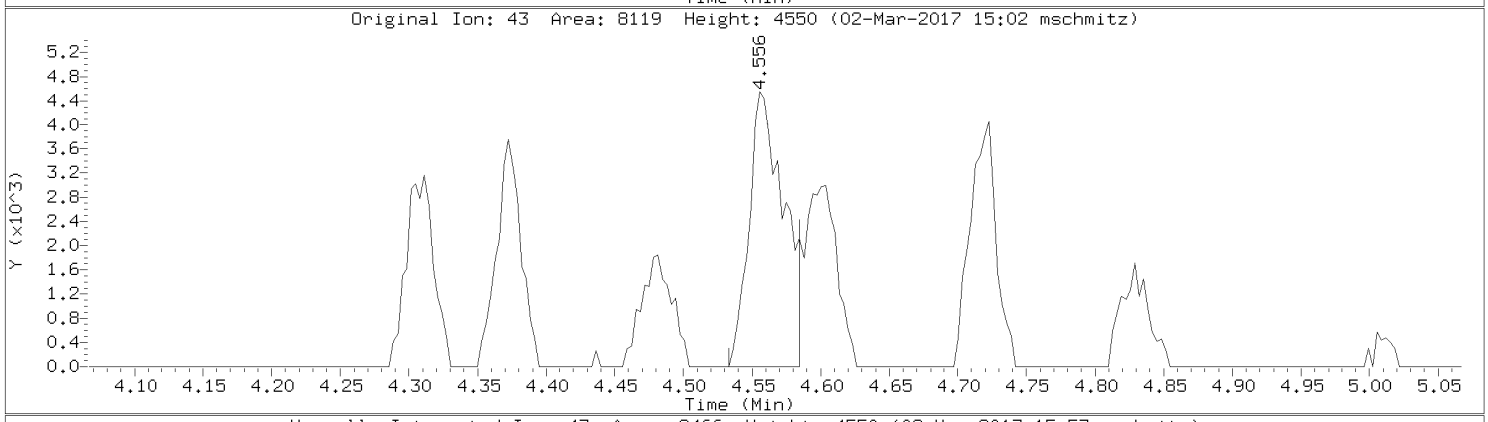


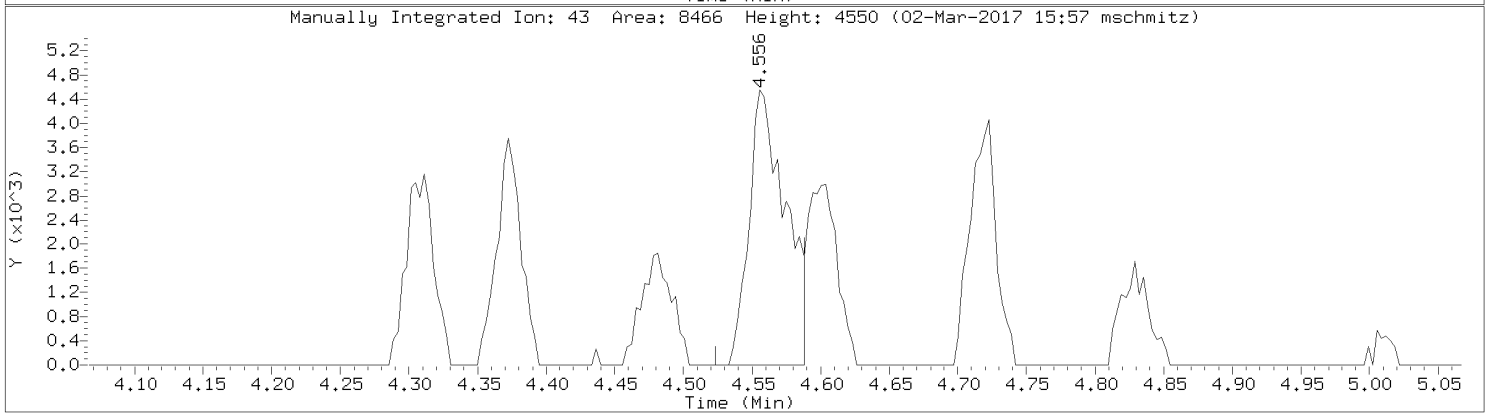
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



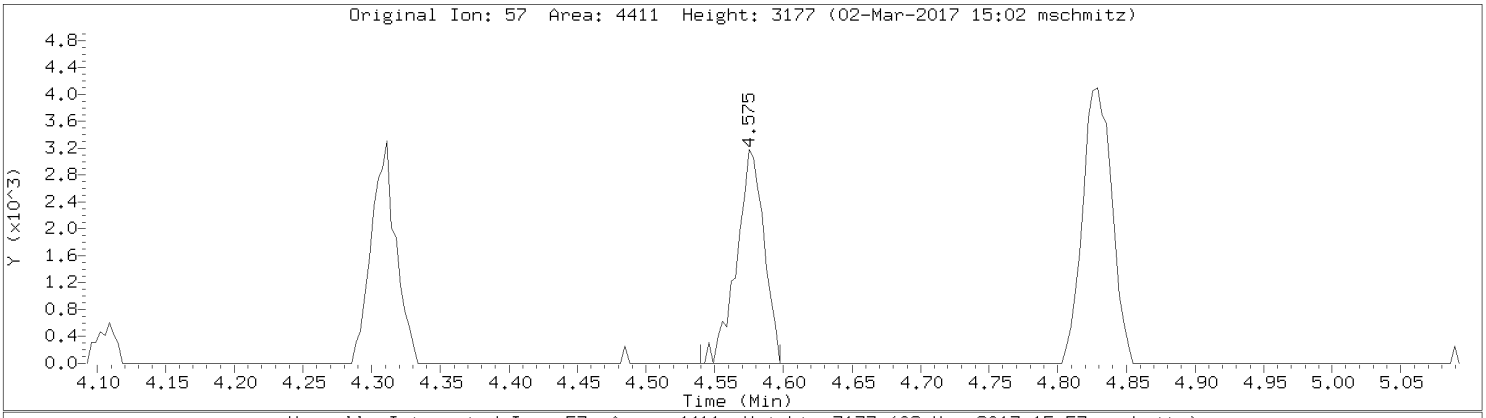


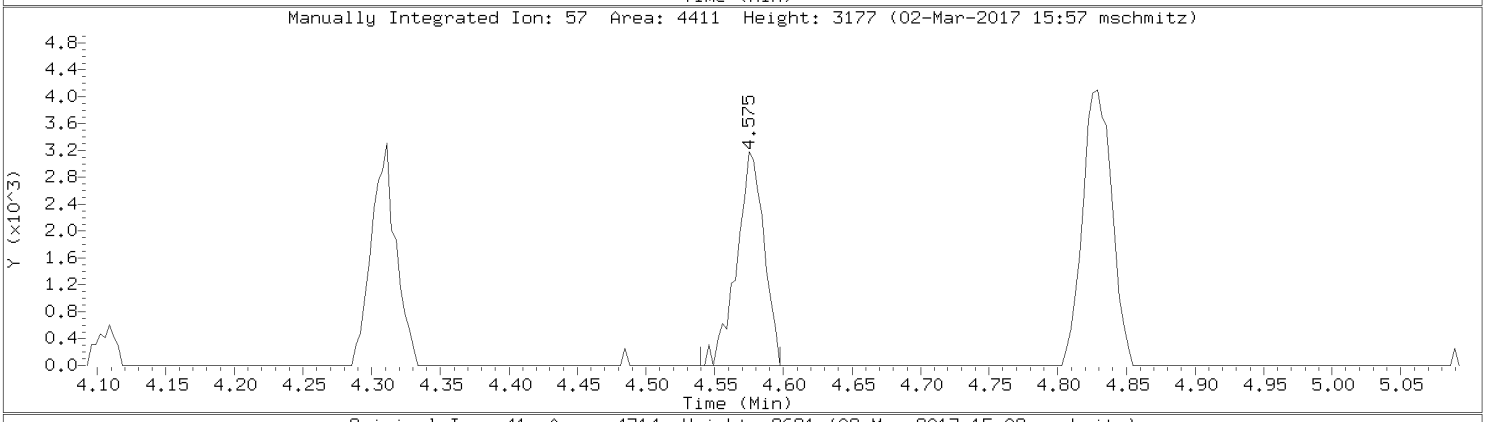


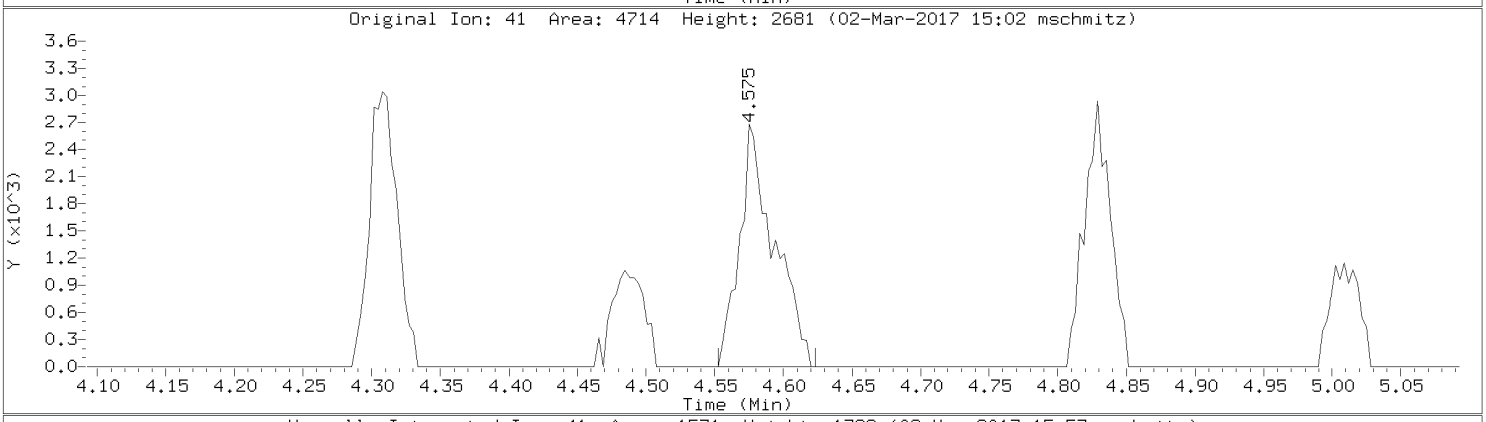


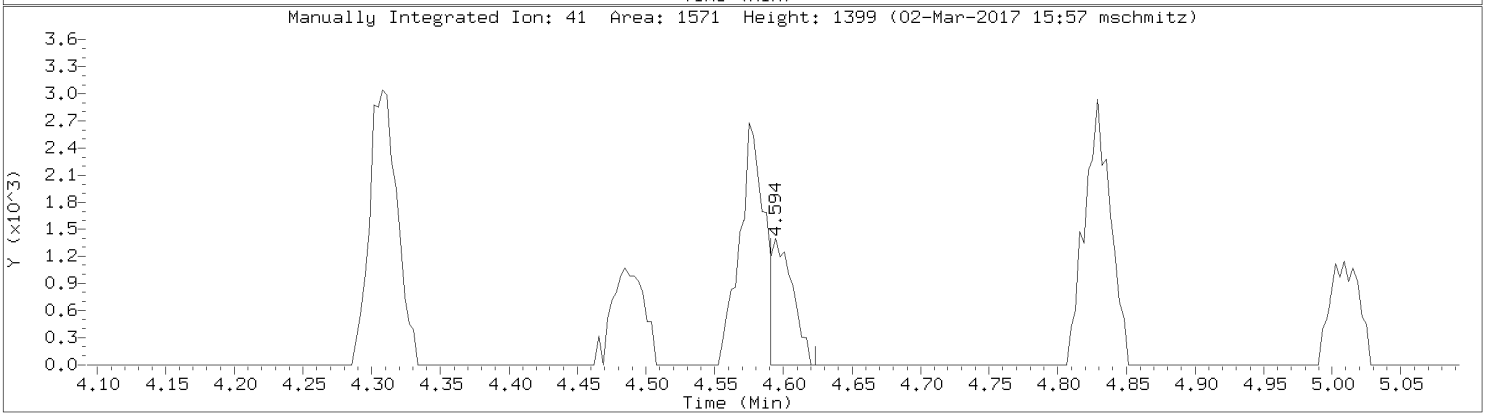
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: n-Hexane
CAS Number: 110-54-3

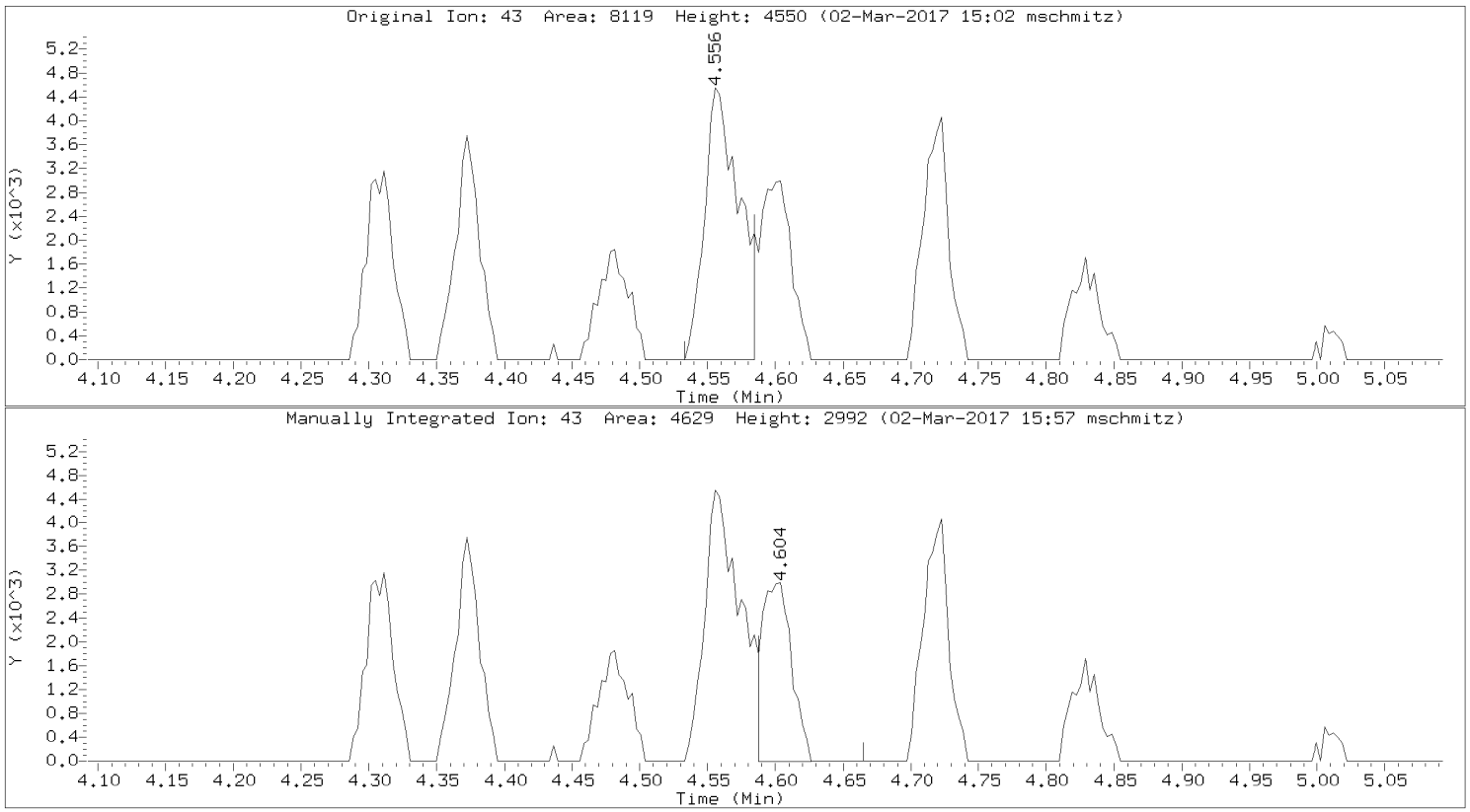






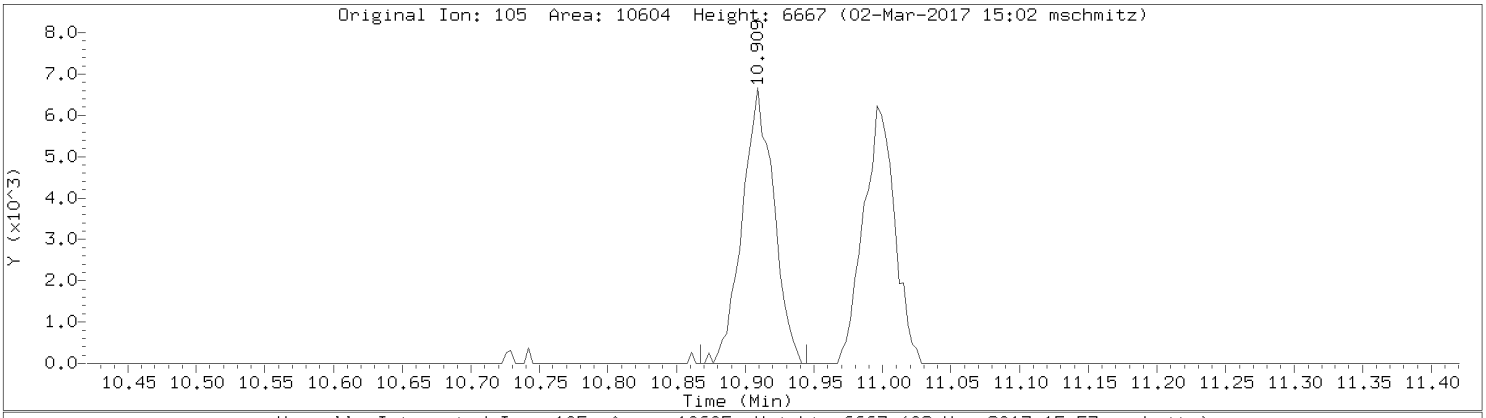


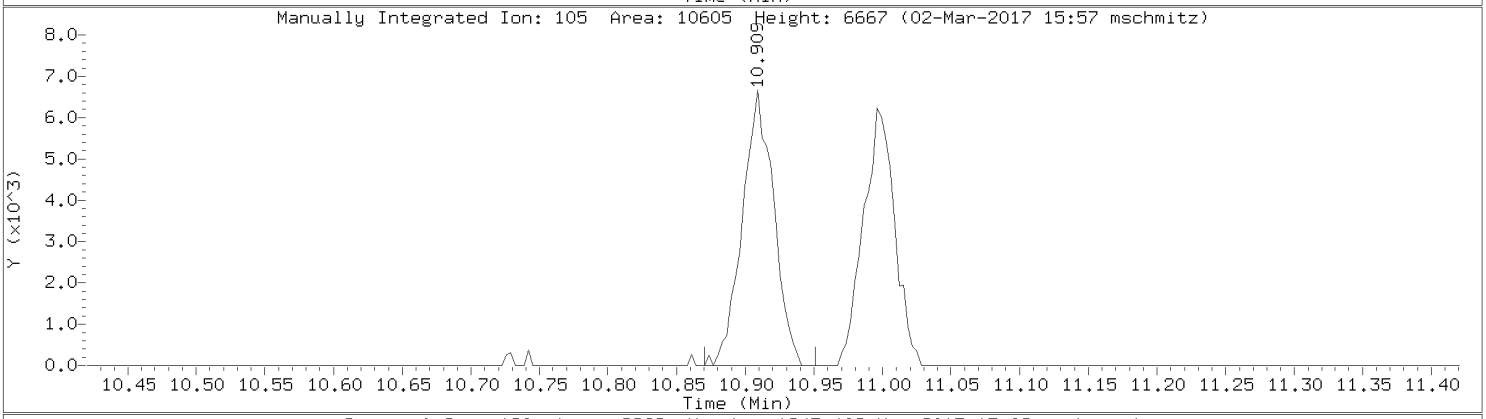
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

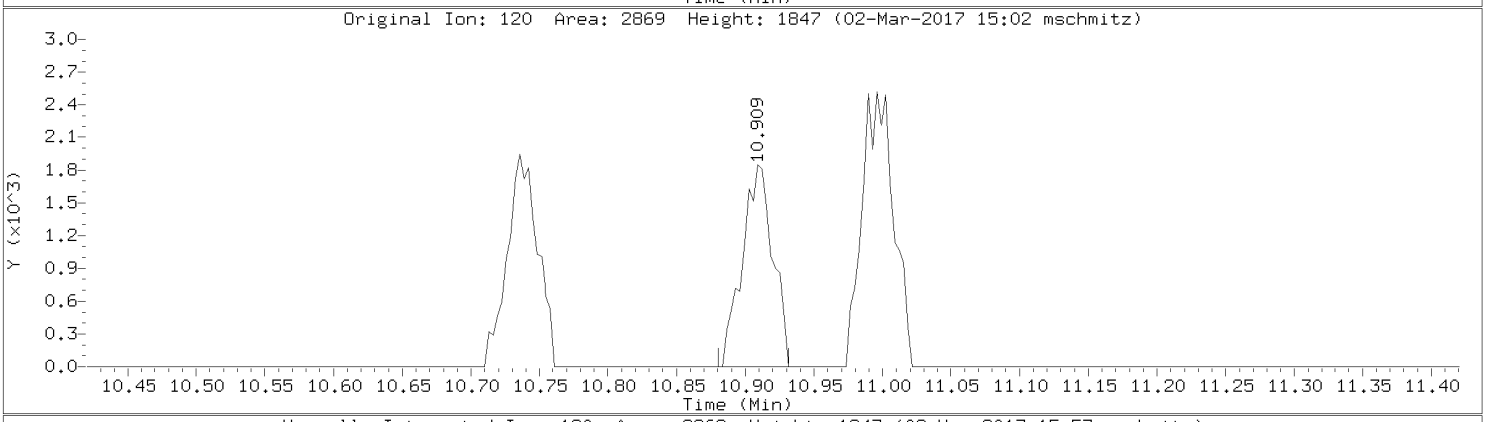


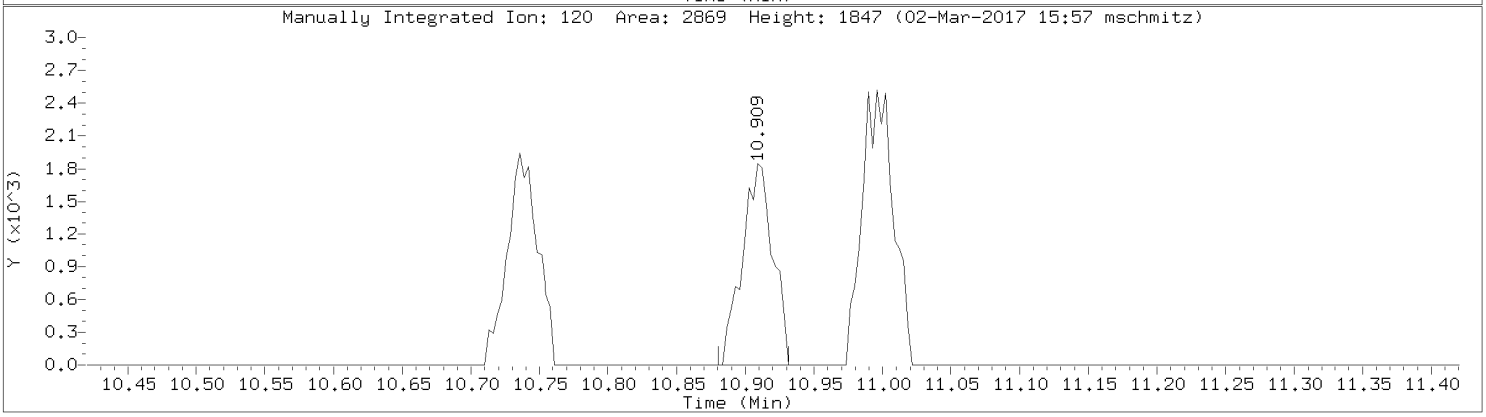
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

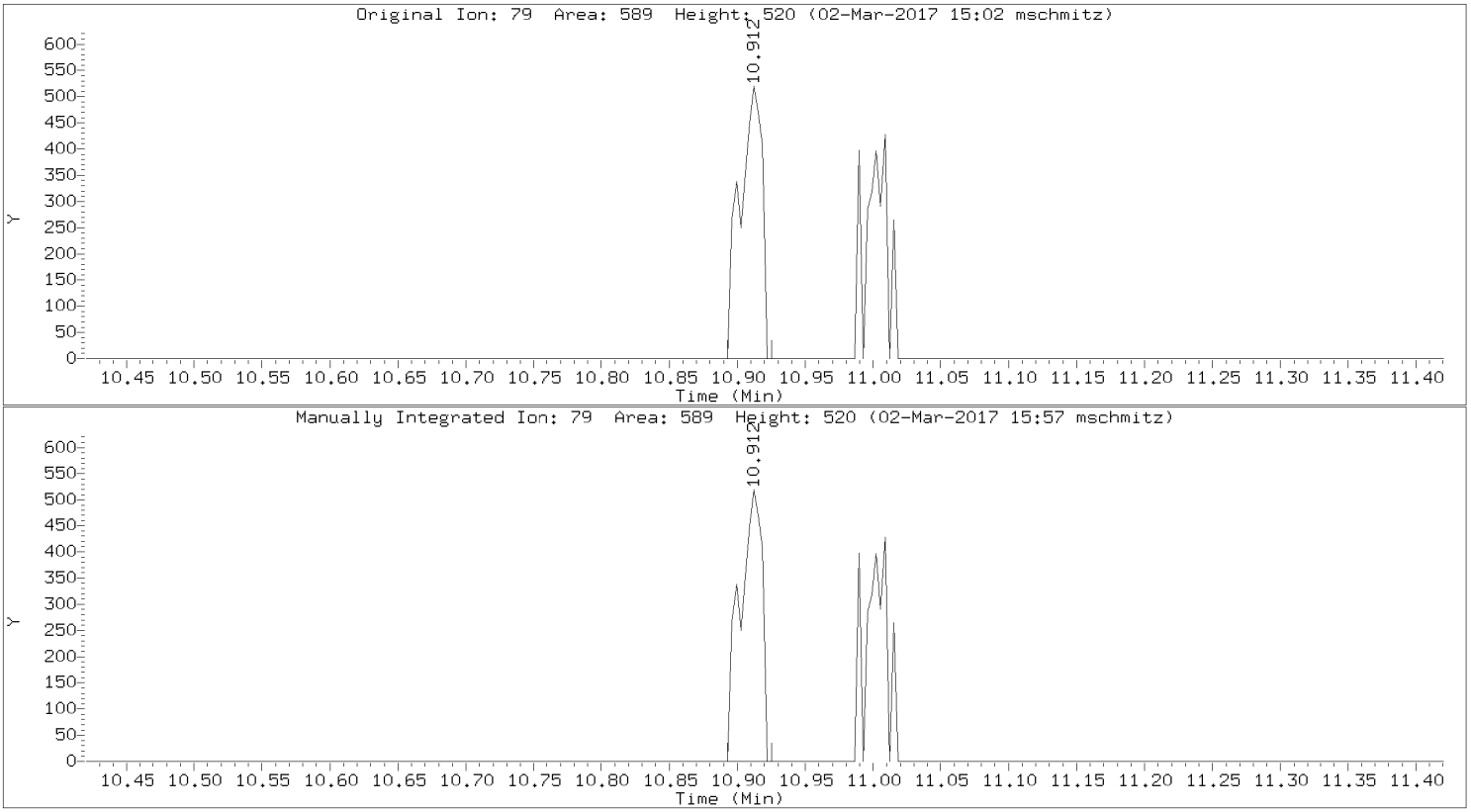






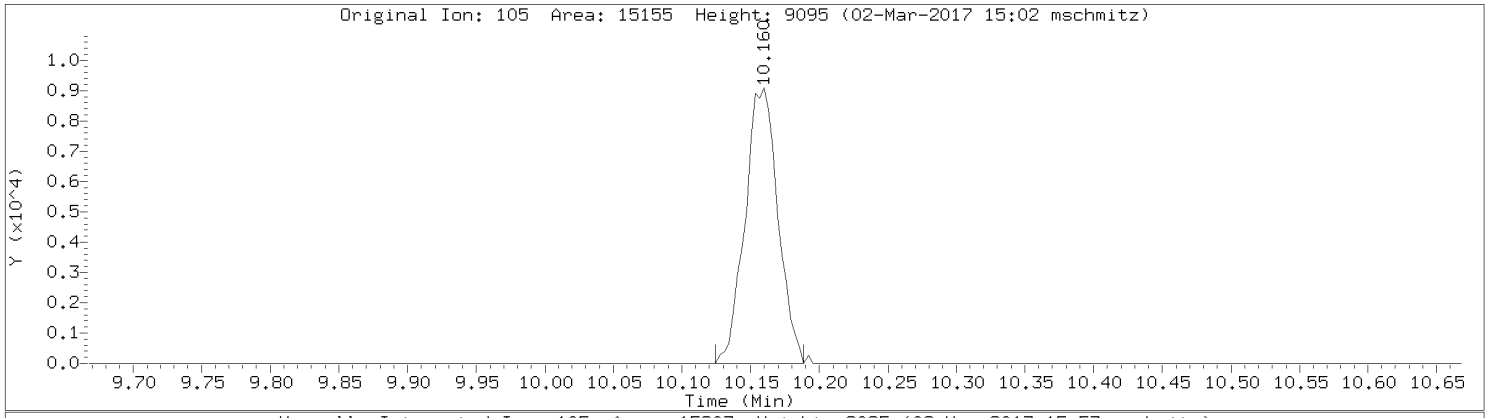


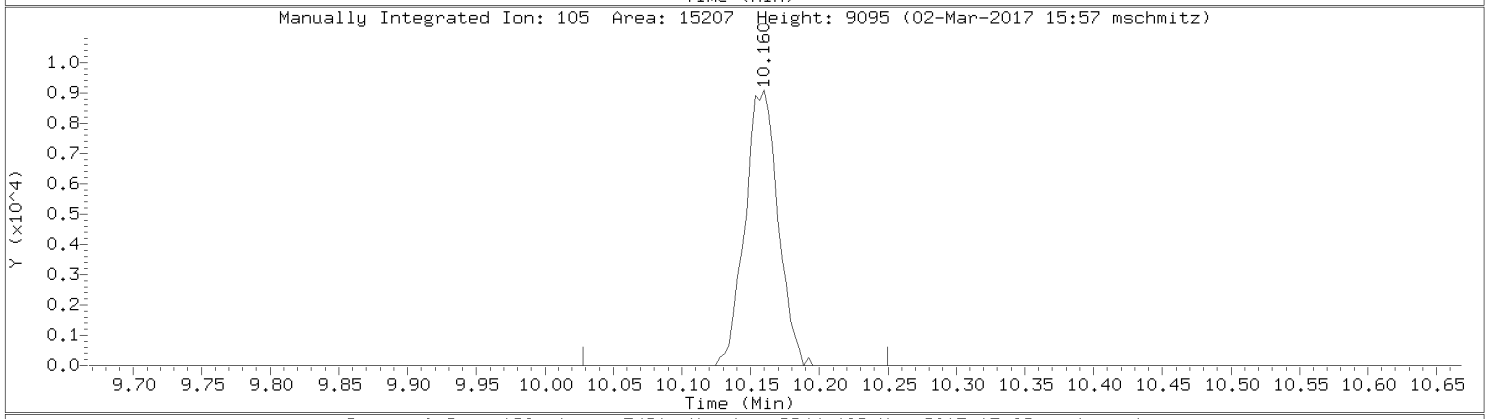
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

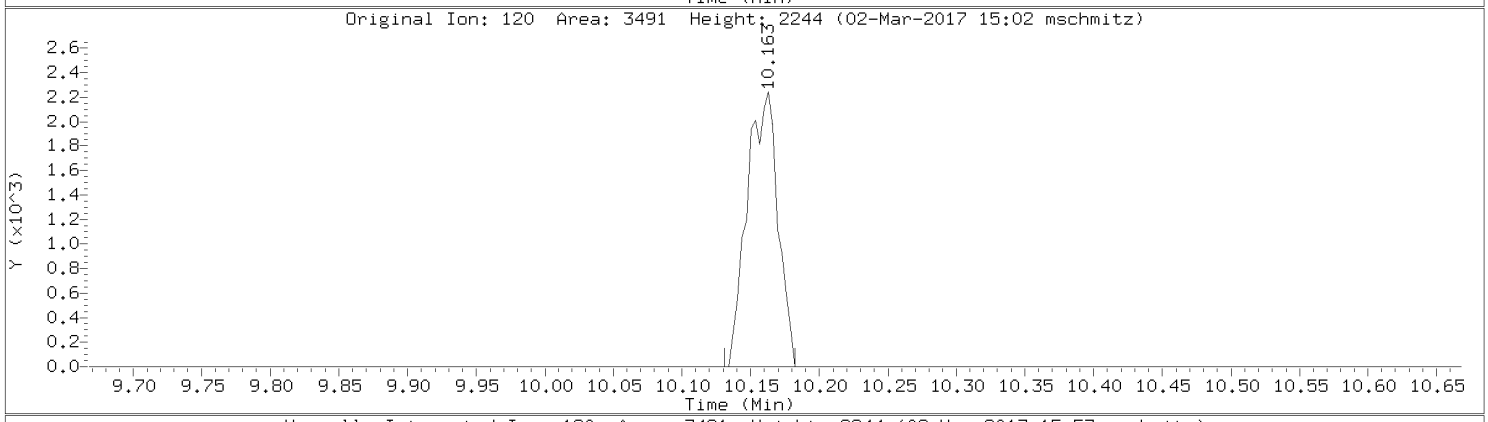


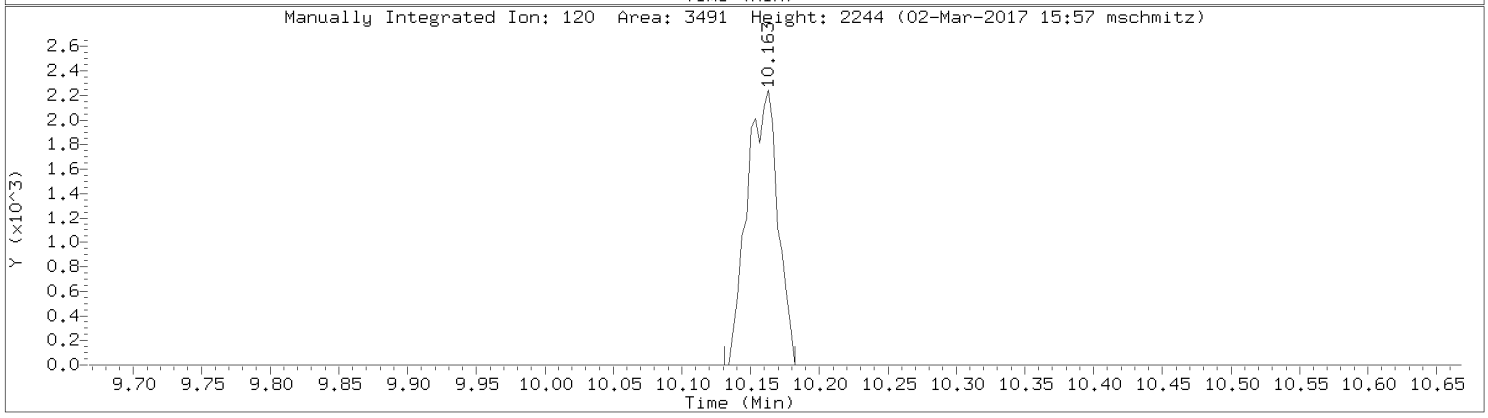
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Isopropylbenzene
CAS Number:



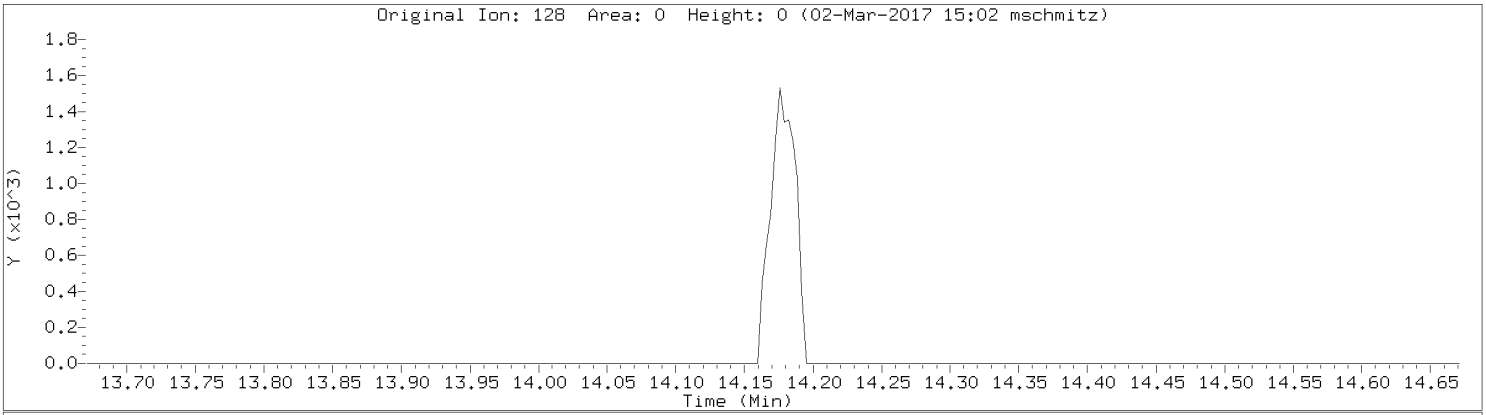


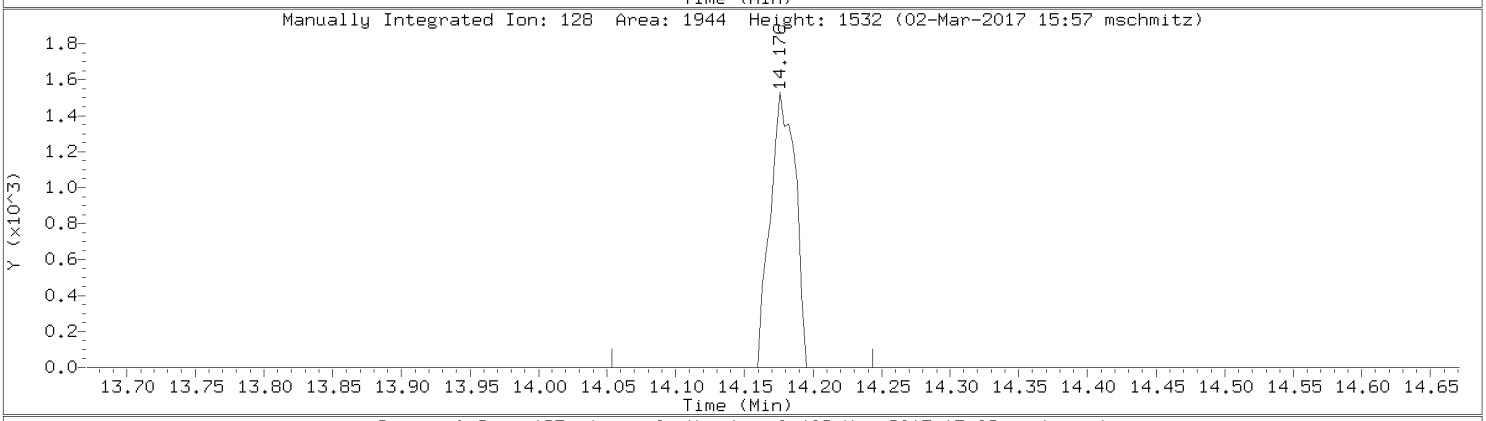


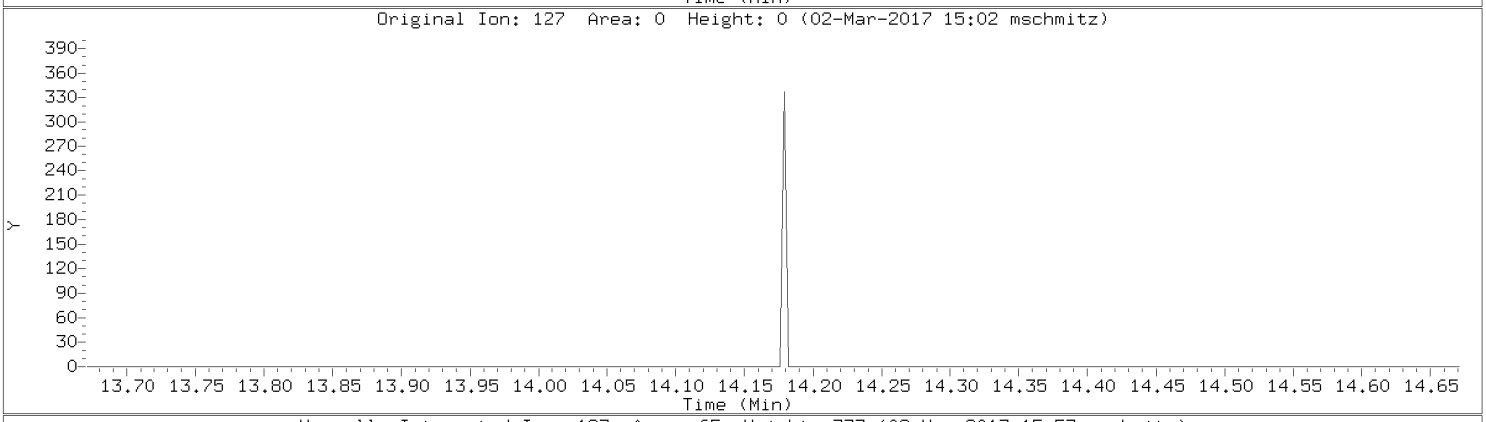


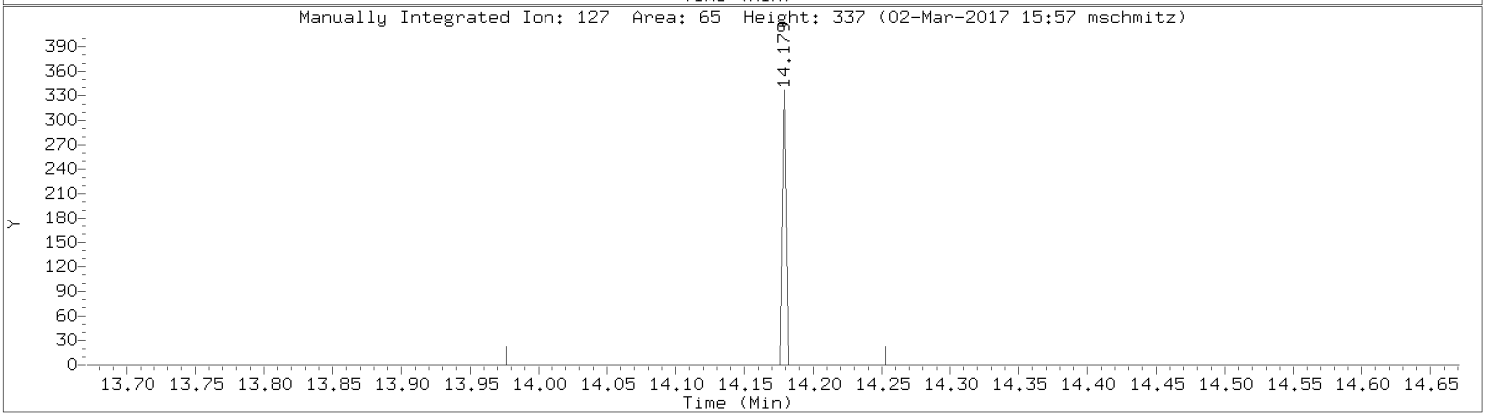
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Naphthalene
CAS Number: 91-20-3



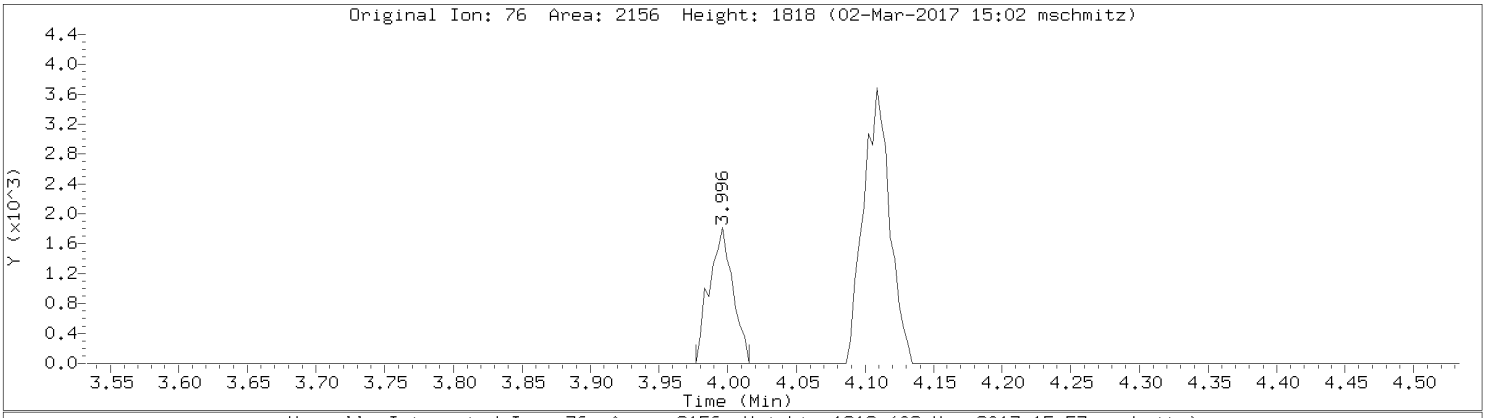


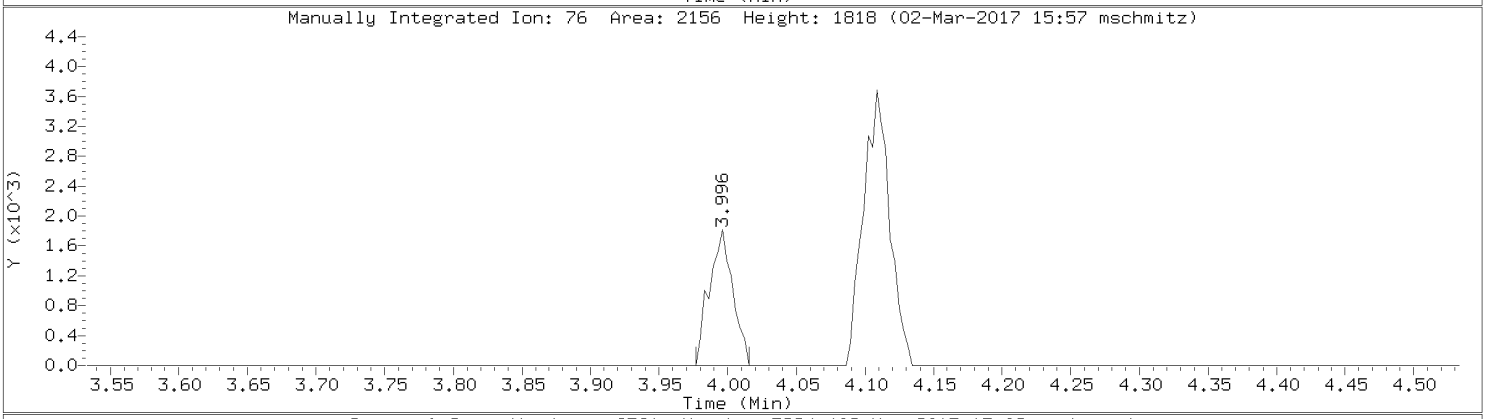


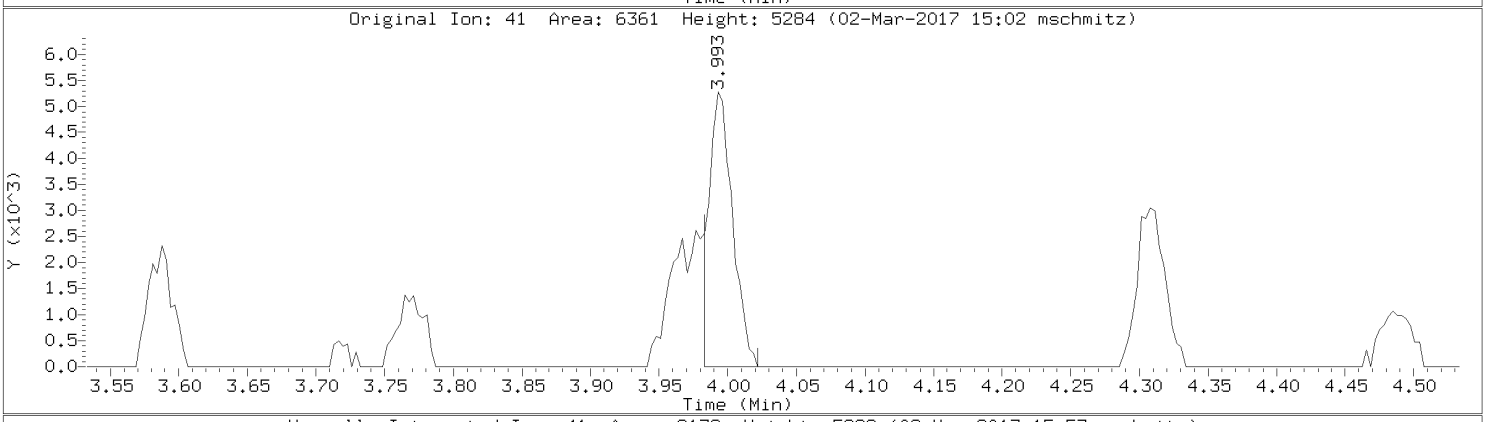


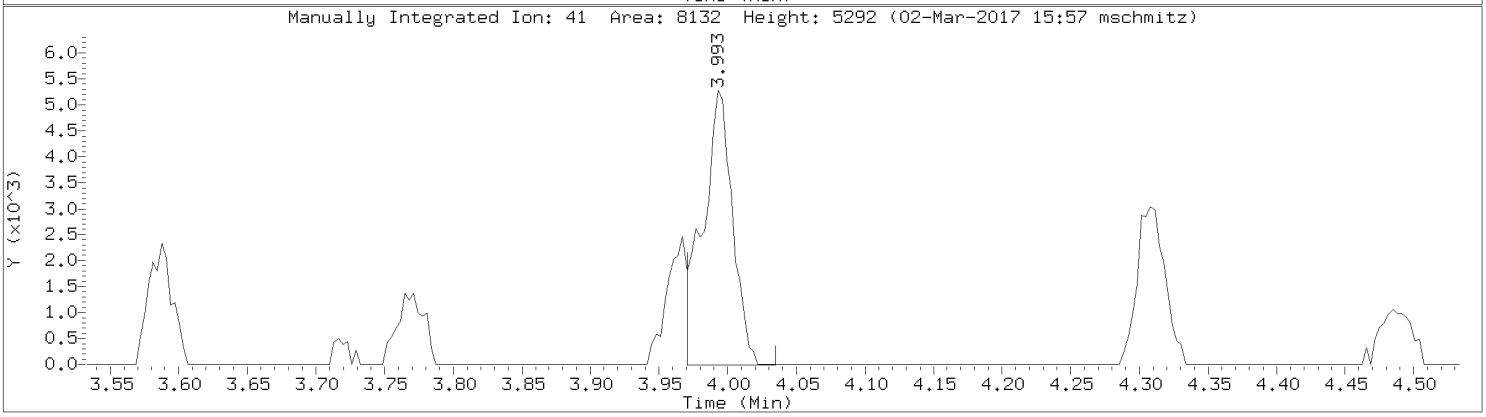
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Allyl Chloride
CAS Number: 107-05-1

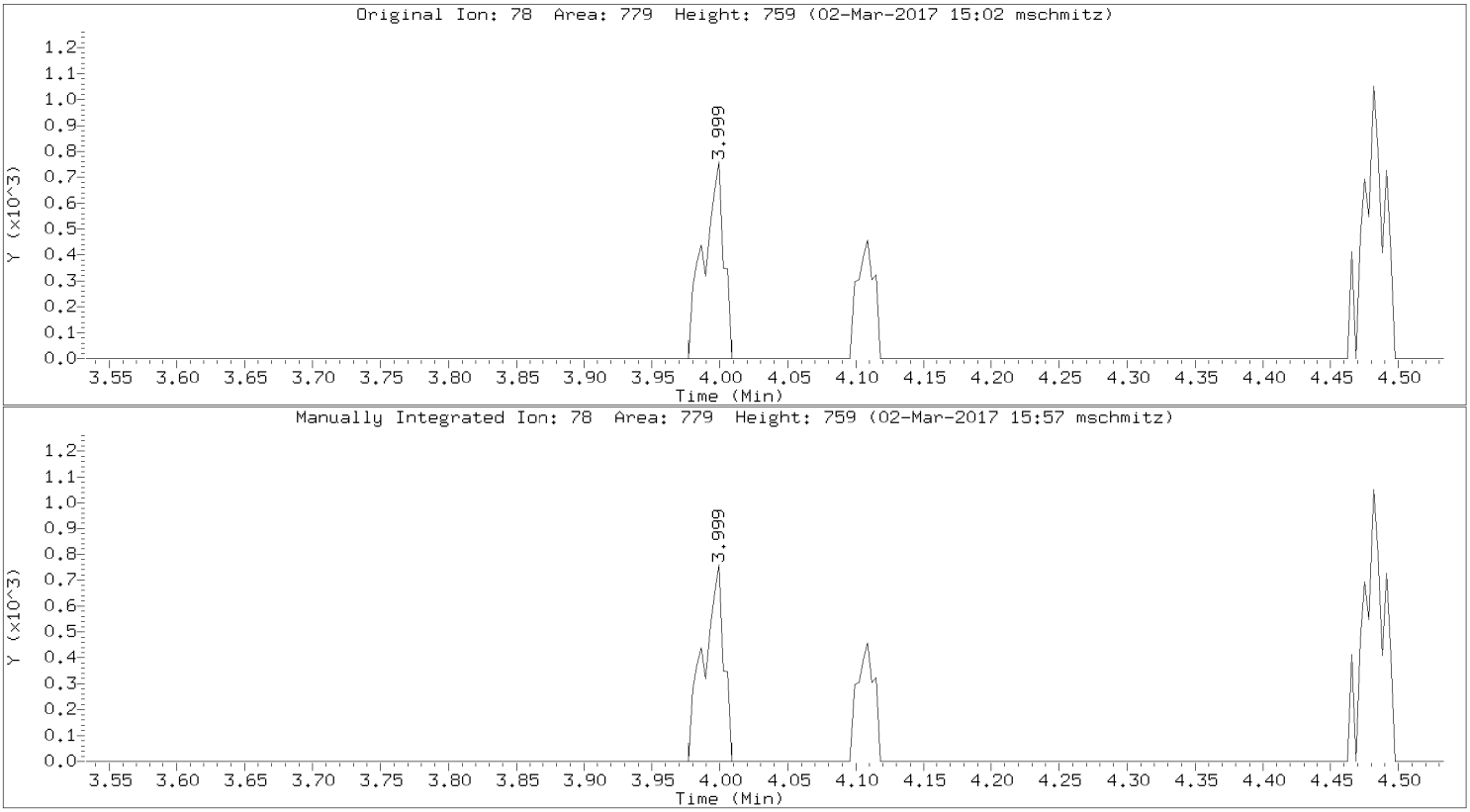






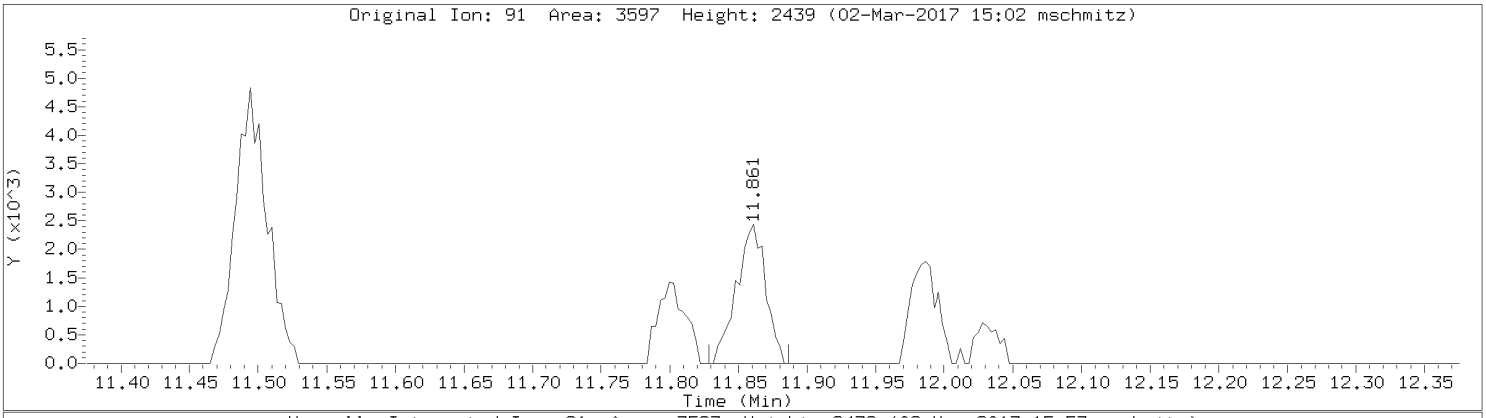


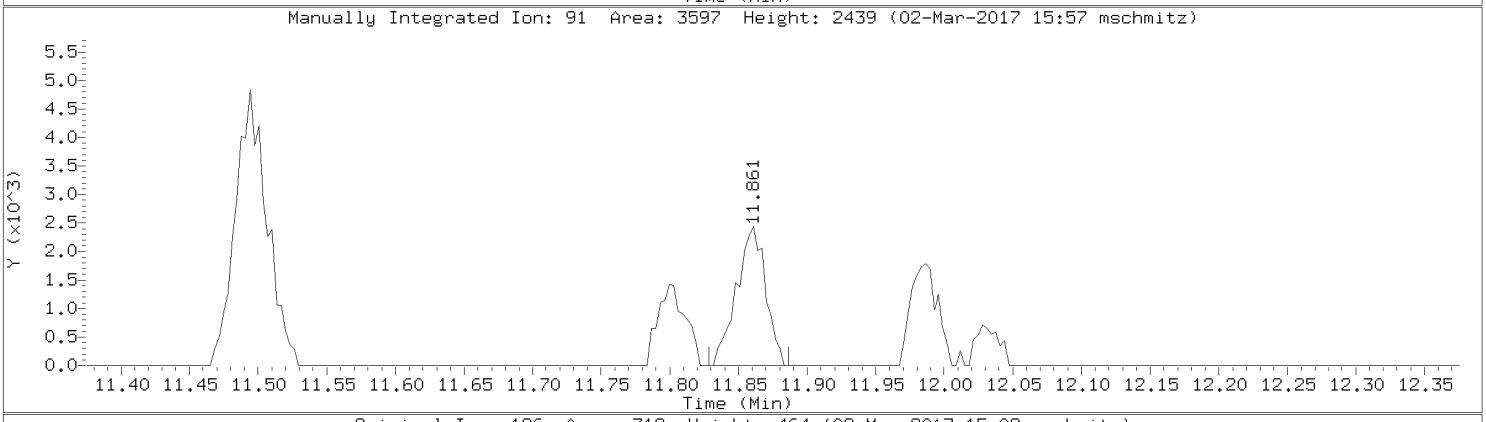
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

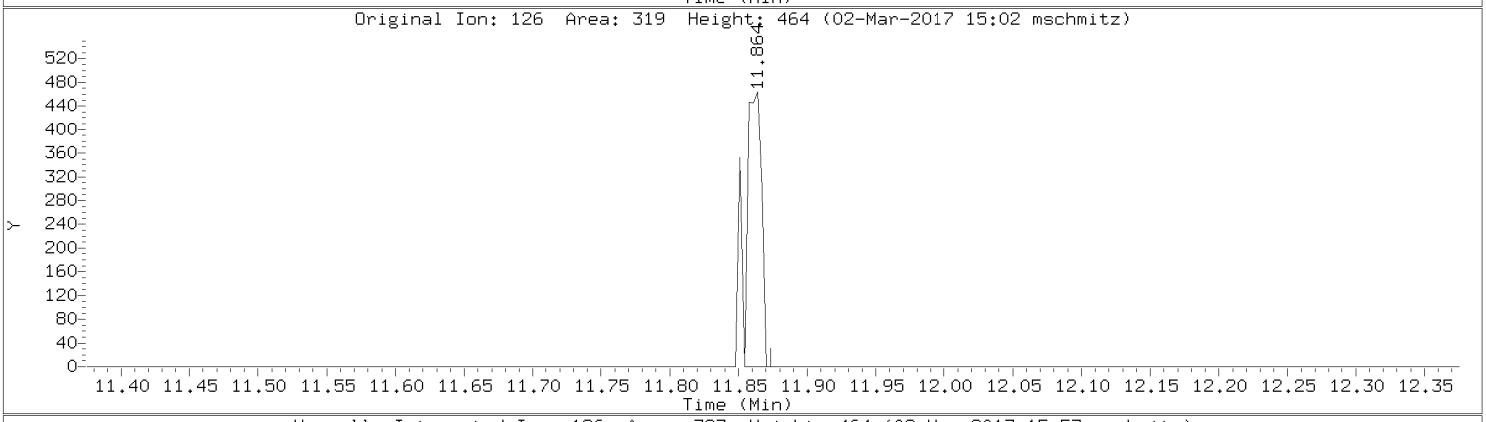


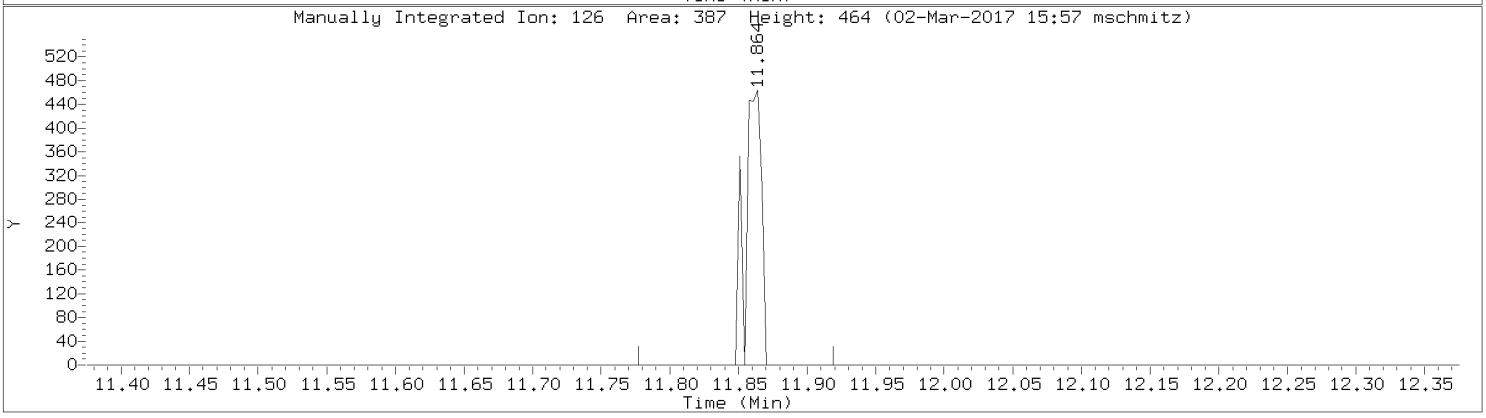
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Benzyl Chloride
CAS Number: 100-44-7



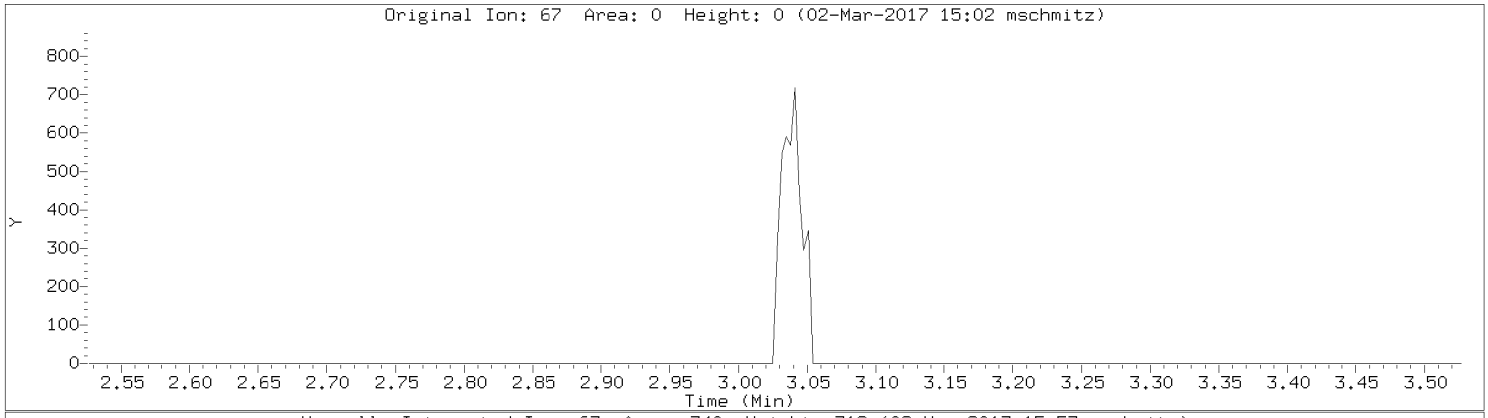


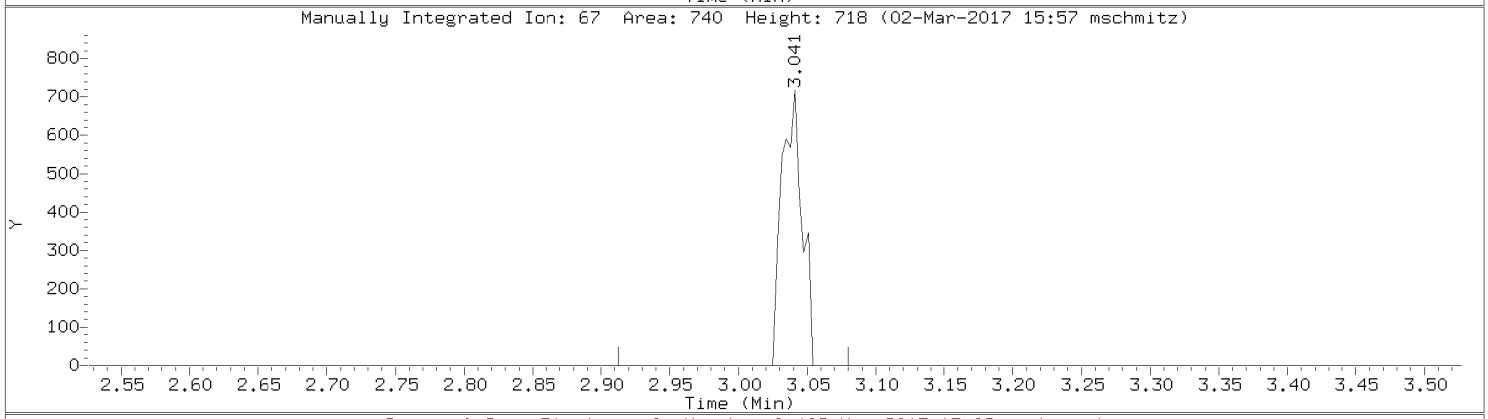


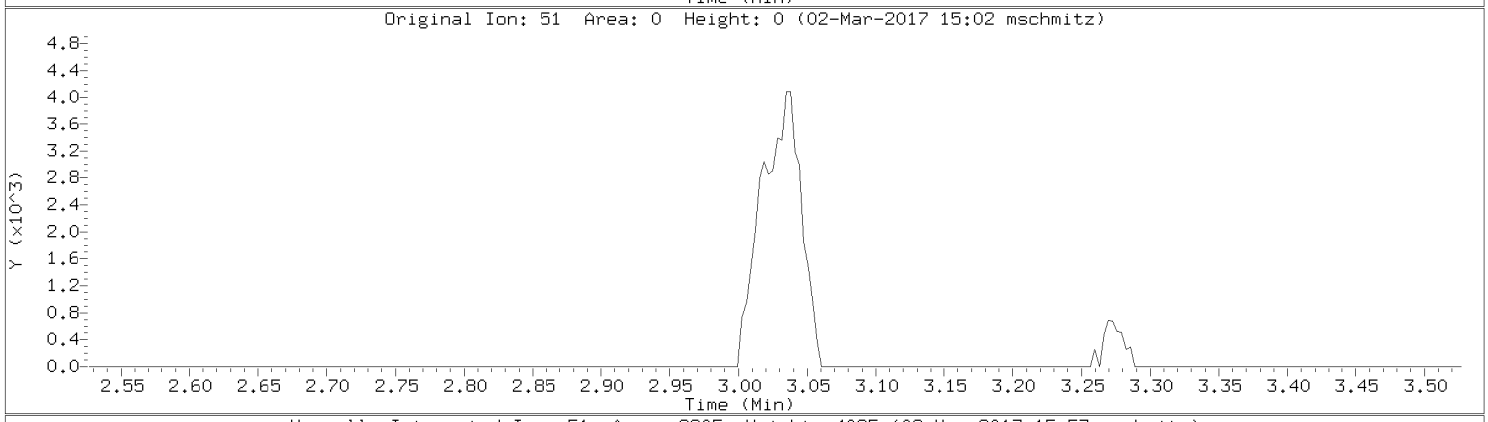


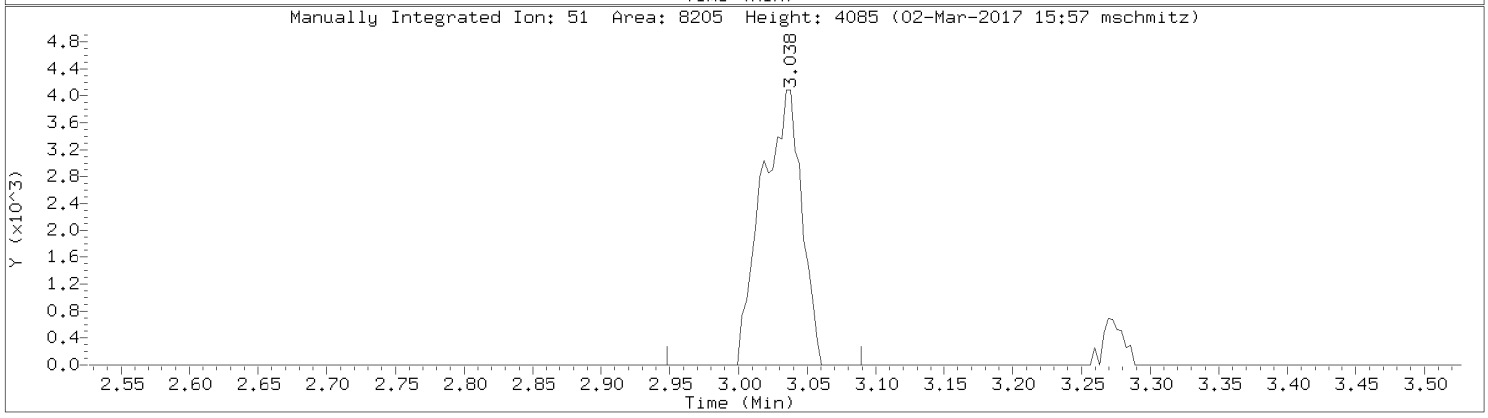
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

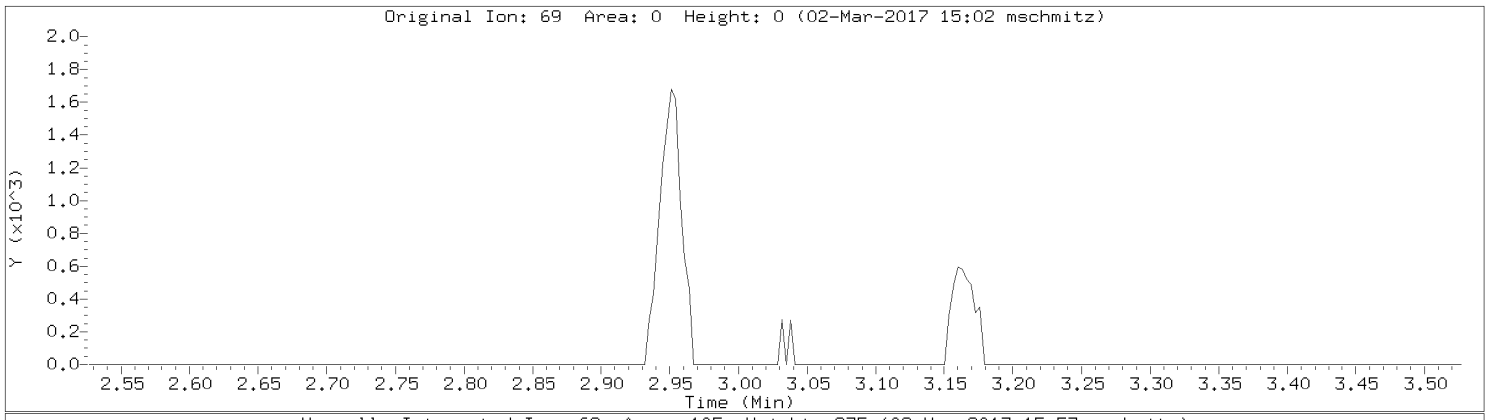


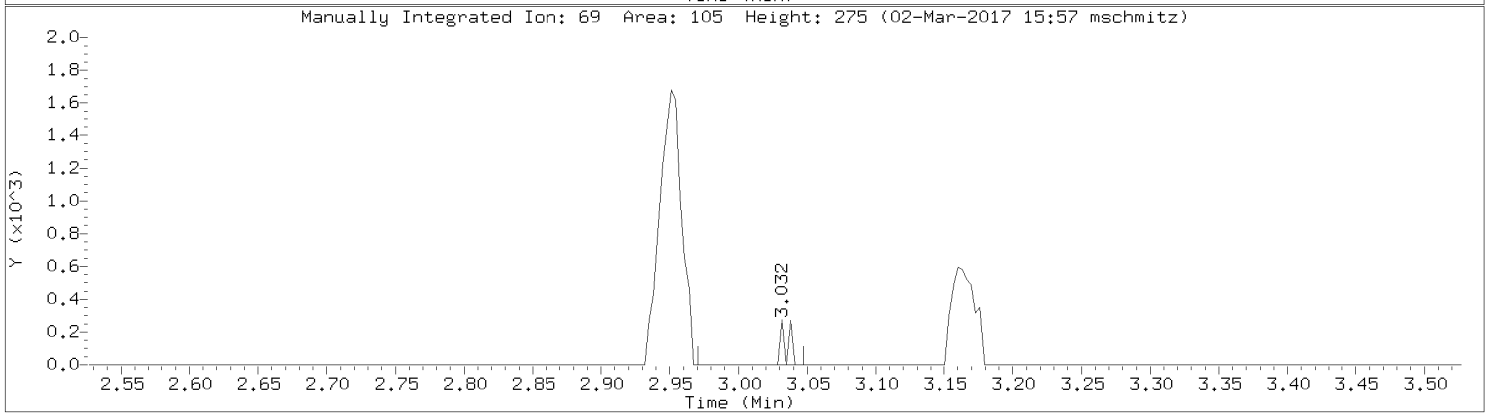






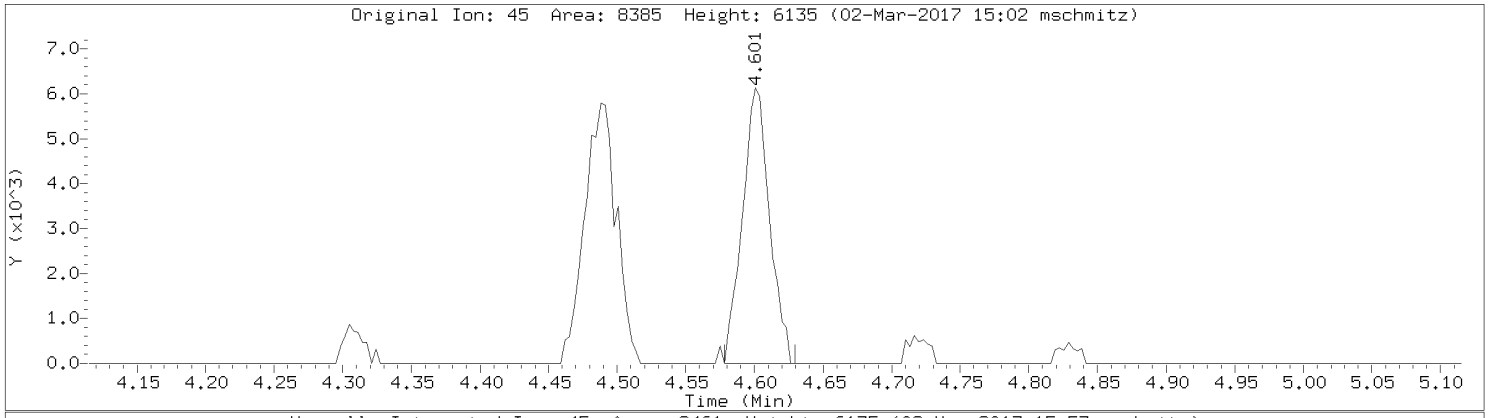
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

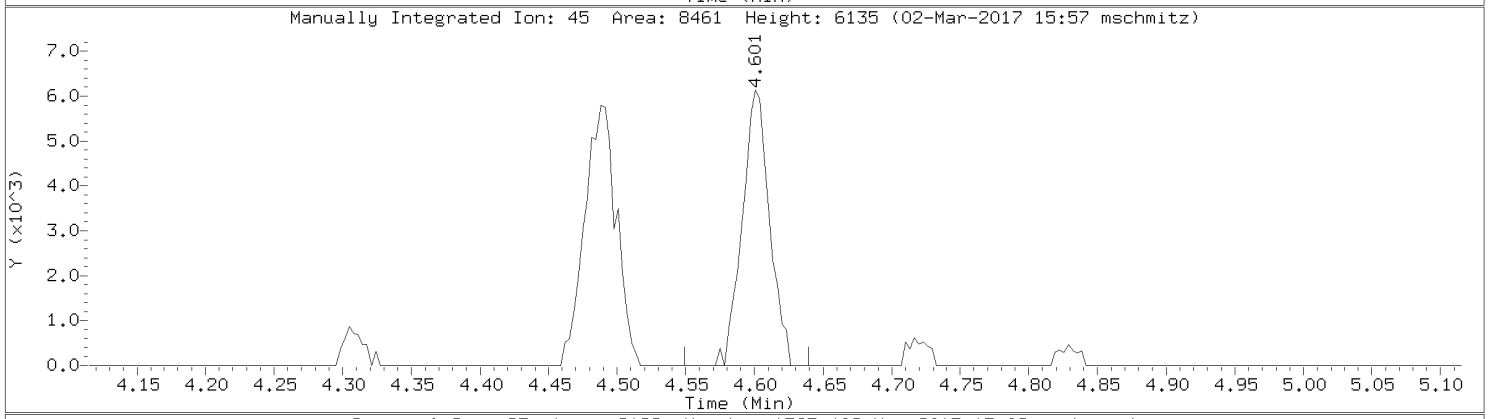


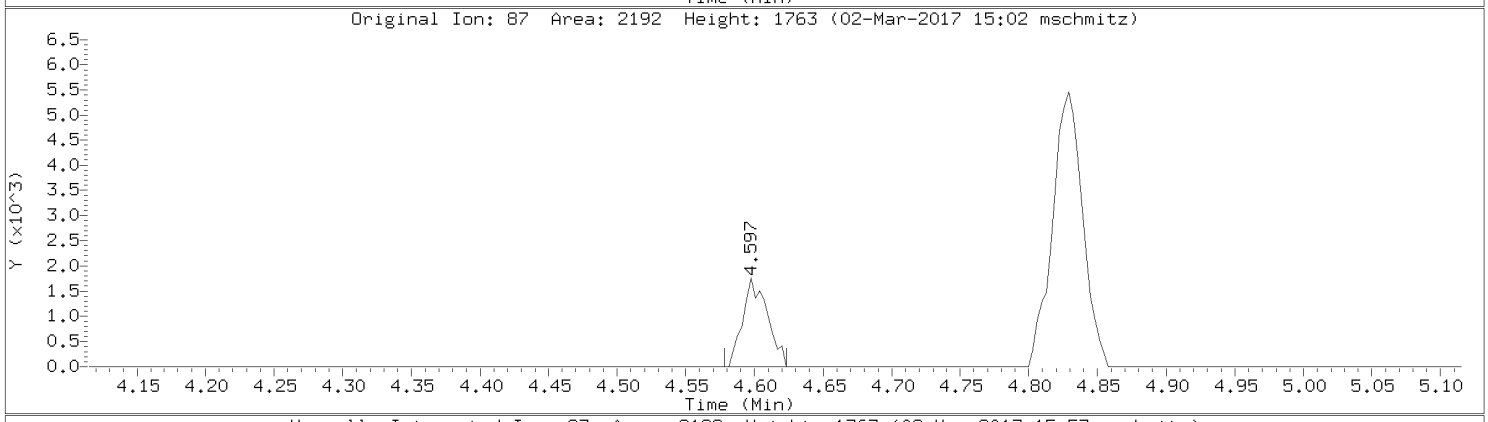


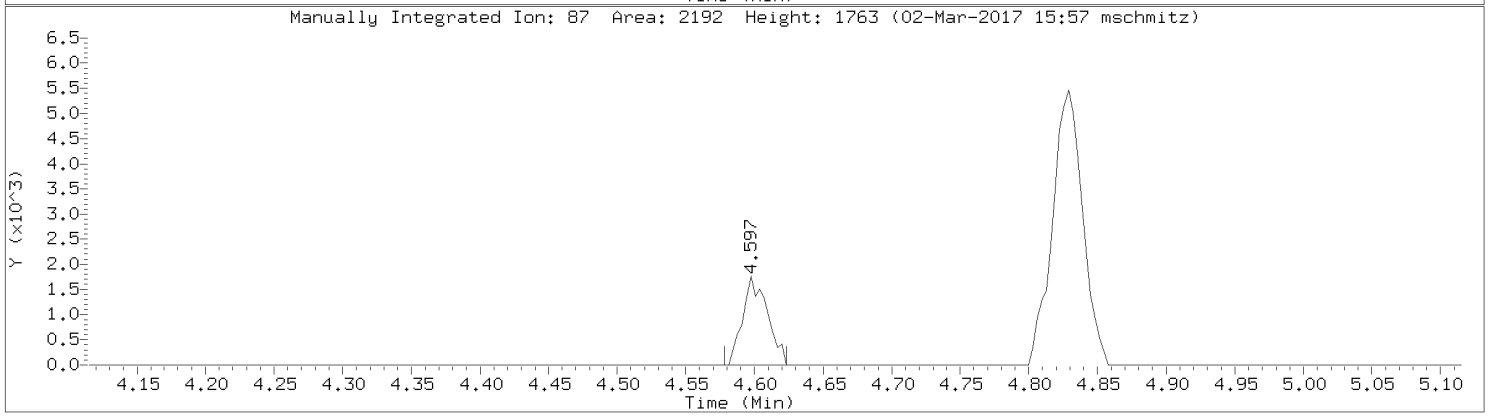
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: Di-isopropyl Ether
CAS Number: 108-20-3

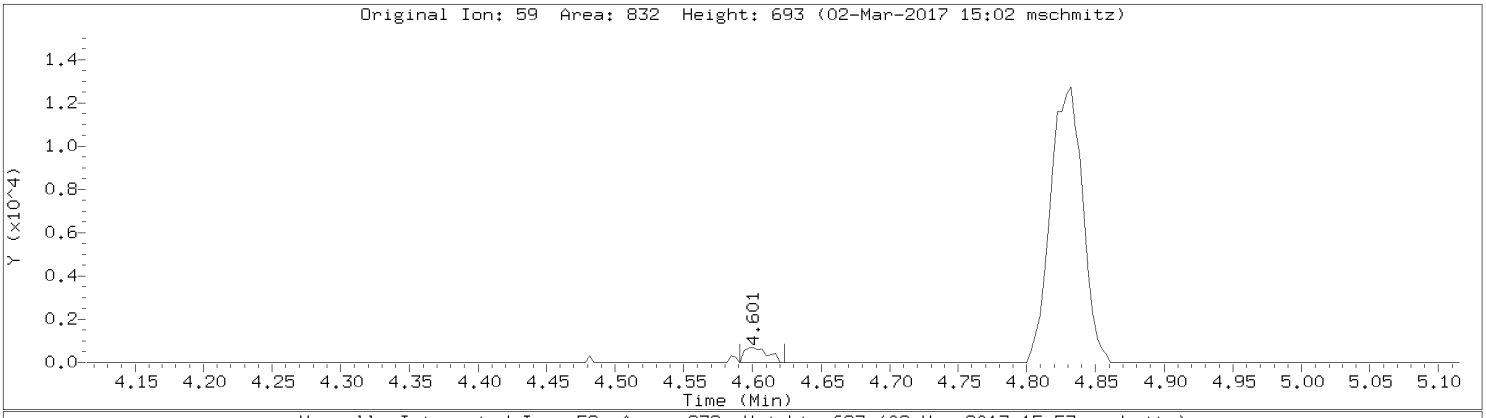


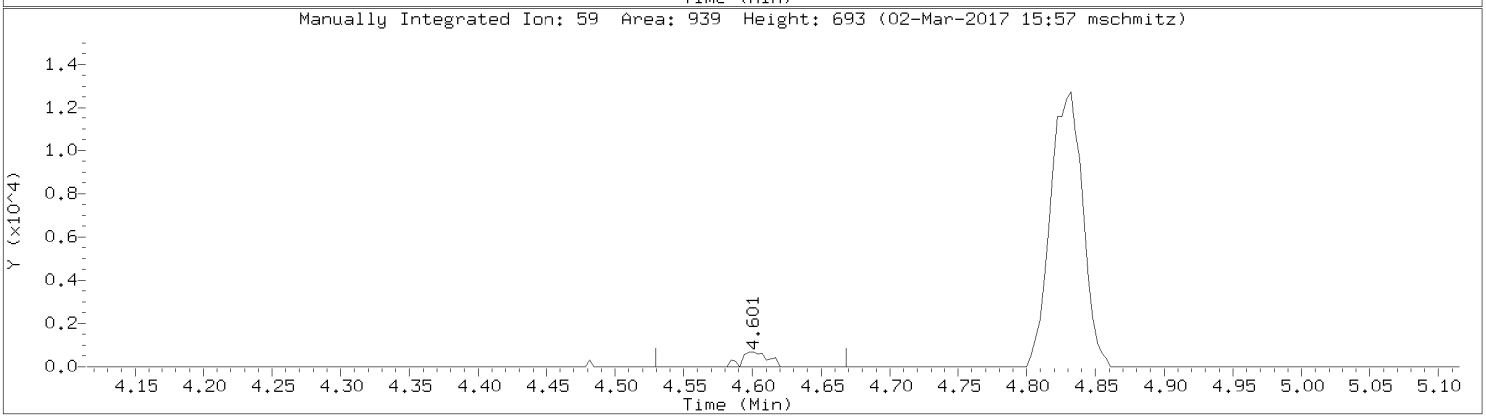






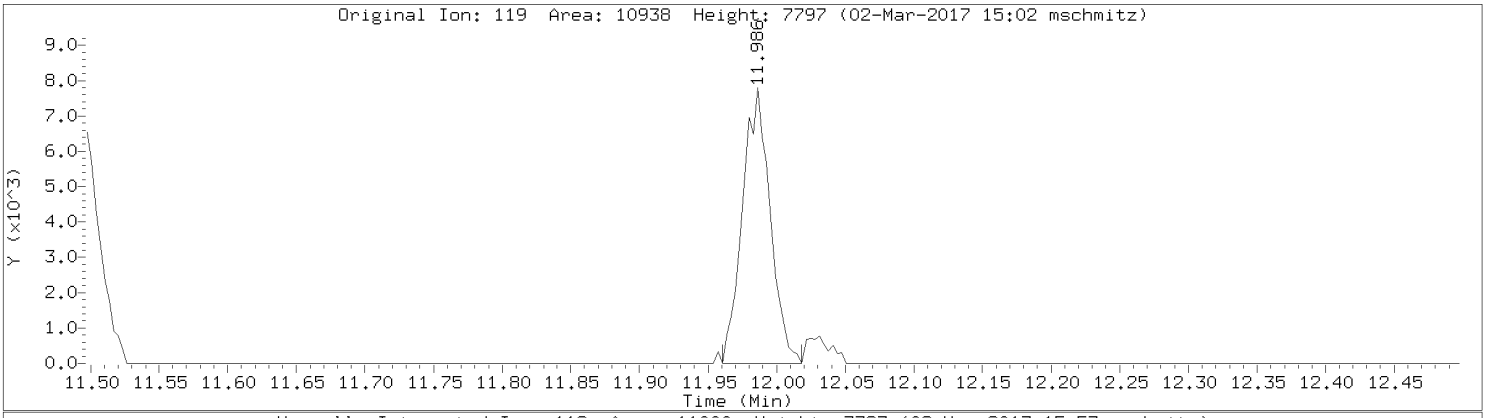
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

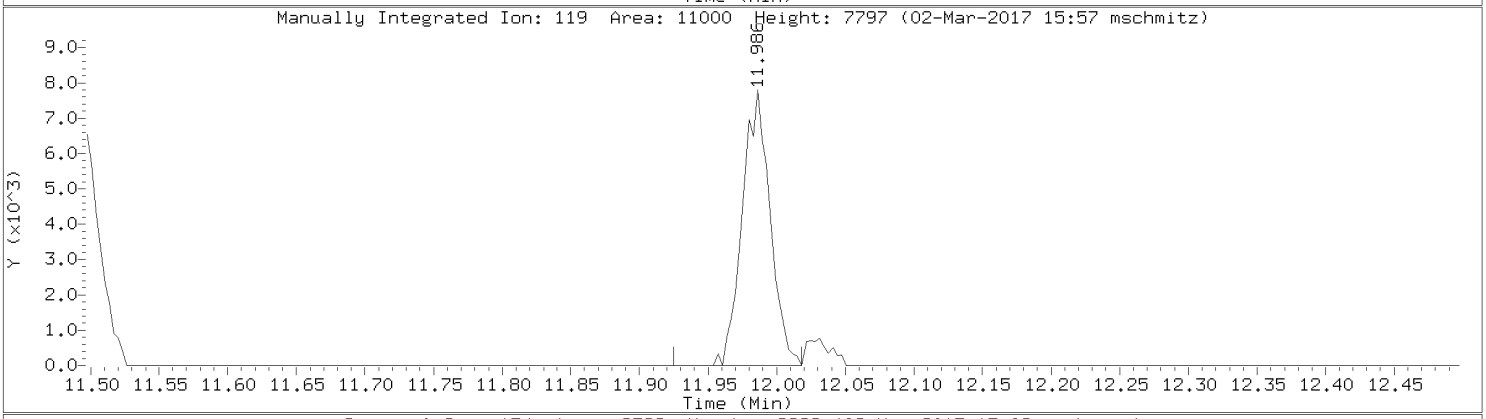


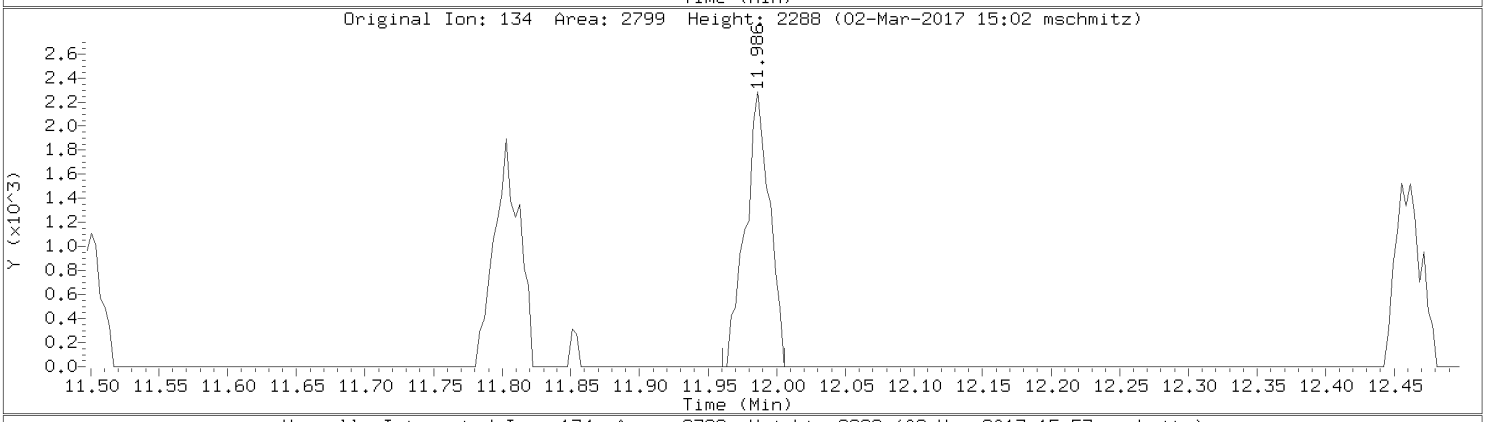


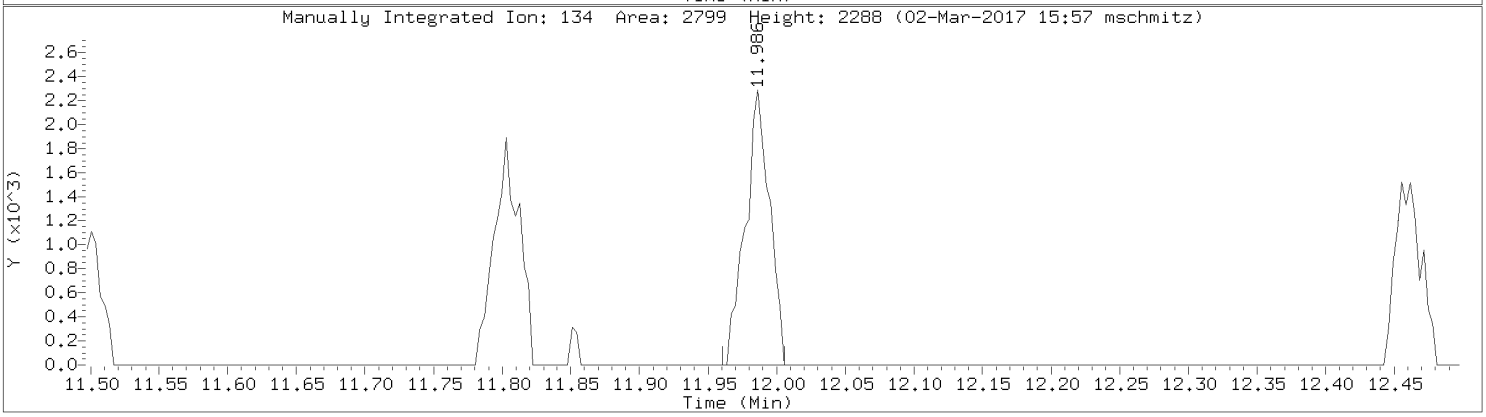
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2

Compound: p-Isopropyltoluene
CAS Number: 99-87-6

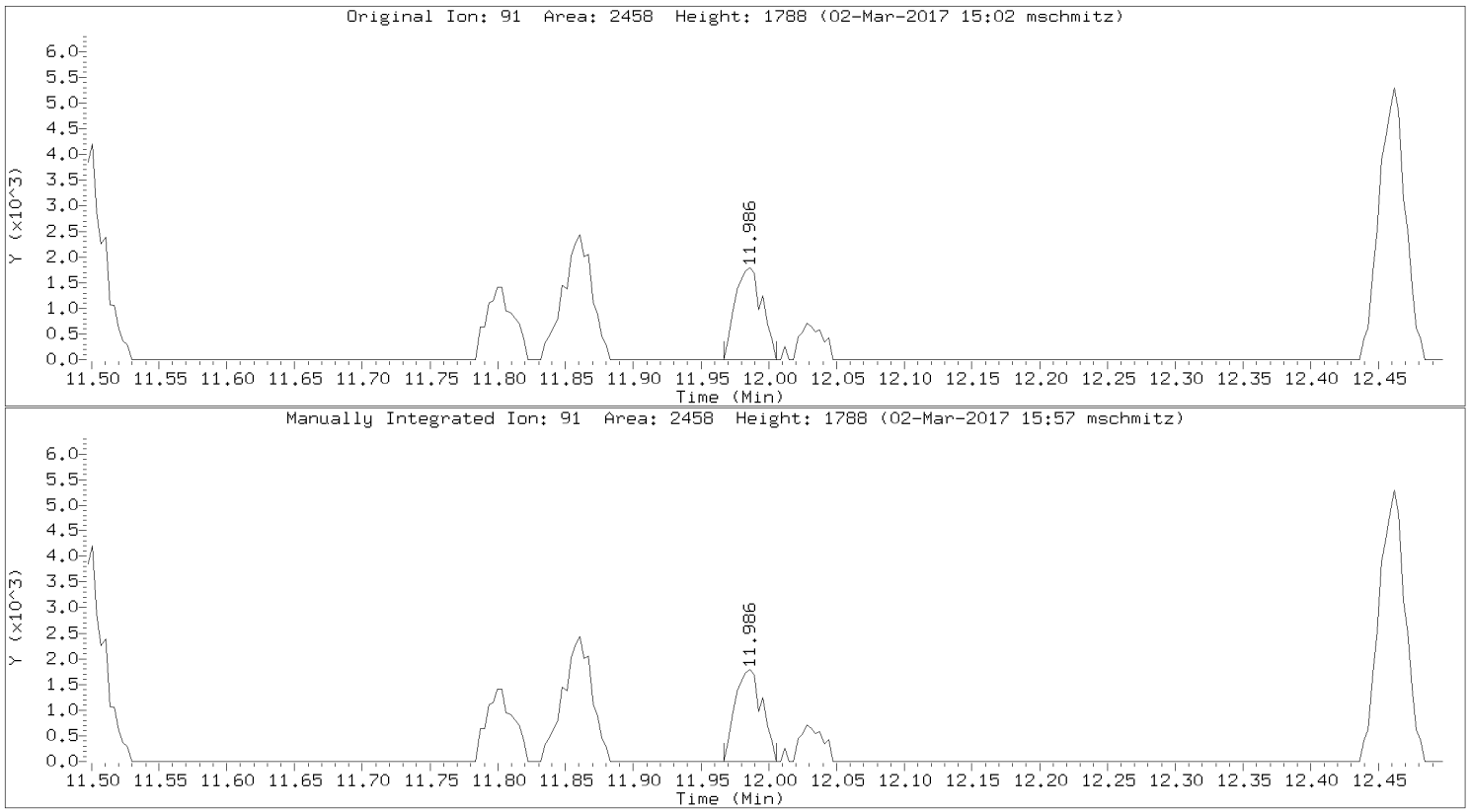








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06110.D
Injection Date: 02-MAR-2017 11:46
Instrument: 10airB.i
Lab Sample ID: cal2



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Lab Smp Id: cal3
Inj Date : 02-MAR-2017 12:14
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:00 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 11:46 Cal File: 06110.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.915	2.915	(0.521)	3232	0.50000	0.431
2	1,1-Difluoroethane	65	2.983	2.983	(0.533)	4099	0.50000	0.501(QM)
3	Chlorodifluoromethane	67	3.005	3.005	(0.537)	2020	0.50000	0.475(QM)
4	Propylene	41	2.999	2.999	(0.536)	12525	0.50000	0.617
5	Dichlorodifluoromethane	85	3.034	3.034	(0.542)	20944	0.50000	0.453
6	Chloromethane	50	3.131	3.131	(0.559)	7549	0.50000	0.471
7	Dichlorotetrafluoroethane	85	3.137	3.137	(0.561)	18899	0.50000	0.488
8	Vinyl chloride	62	3.208	3.208	(0.573)	6947	0.50000	0.501
9	1,3-Butadiene	54	3.246	3.246	(0.580)	5105	0.50000	0.506
10	Bromomethane	94	3.385	3.385	(0.605)	5816	0.50000	0.454
11	Chloroethane	64	3.430	3.430	(0.613)	3156	0.50000	0.495
12	Ethanol	45	3.539	3.539	(0.632)	11951	2.50000	2.33
13	Vinyl Bromide	106	3.545	3.545	(0.633)	6226	0.50000	0.469
14	Isopentane	43	3.565	3.565	(0.637)	8126	0.50000	0.448(H)
15	Freon 123	83	3.581	3.581	(0.640)	15648	0.50000	0.987
16	Trichlorofluoromethane	101	3.639	3.639	(0.650)	18662	0.50000	0.487
17	Acrolein	56	3.664	3.664	(0.655)	4758	1.25000	1.12
18	Acetone	43	3.706	3.706	(0.662)	54960	2.50000	2.48
19	Isopropyl Alcohol	45	3.758	3.758	(0.671)	55961	2.50000	2.48
20	1,1-Dichloroethene	61	3.877	3.877	(0.693)	10524	0.50000	0.473
21	Acrylonitrile	53	3.896	3.896	(0.696)	12529	1.25000	1.22(M)
22	Freon 113	101	3.922	3.922	(0.701)	15039	0.50000	0.520
23	Methyl Acetate	43	3.944	3.944	(0.705)	16843	0.50000	0.499

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.706)	37120	1.25000	1.28(Q)
	25 Methylene chloride	49	3.973	3.973	(0.710)	39668	2.50000	2.54
	26 Allyl Chloride	76	3.986	3.986	(0.712)	5091	1.25000	1.12(Q)
	27 Carbon Disulfide	76	4.089	4.089	(0.731)	14262	0.50000	0.484
	28 trans-1,2-dichloroethene	96	4.246	4.246	(0.759)	6628	0.50000	0.531(M)
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.768)	45813	1.25000	1.29
	30 Vinyl Acetate	43	4.365	4.365	(0.780)	11738	0.50000	0.494(H)
	31 1,1-Dichloroethane	63	4.381	4.381	(0.783)	12421	0.50000	0.510
$	32 Hexane-d14(S)	66	4.475	4.475	(0.800)	439606	10.0000	9.90
	33 Methyl Ethyl Ketone	72	4.549	4.549	(0.813)	3113	0.50000	0.541(Q)
	34 n-Hexane	57	4.571	4.571	(0.817)	11001	0.50000	0.494(M)
	35 Di-isopropyl Ether	45	4.594	4.594	(0.821)	21409	0.50000	0.496
	36 Ethyl Acetate	43	4.713	4.713	(0.842)	14116	0.50000	0.493
	37 cis-1,2-Dichloroethene	96	4.693	4.693	(0.839)	6692	0.50000	0.479
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.862)	53479	1.25000	1.18
	39 Chloroform	83	4.812	4.812	(0.860)	14111	0.50000	0.488
	40 Tetrahydrofuran	42	4.999	4.999	(0.893)	7831	0.50000	0.506
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	16939	0.50000	0.498
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	13072	0.50000	0.506
	43 Benzene	78	5.446	5.446	(0.973)	23204	0.50000	0.515
	44 Carbon tetrachloride	117	5.465	5.465	(0.976)	16913	0.50000	0.497
	45 Cyclohexane	56	5.475	5.475	(0.978)	11802	0.50000	0.524
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(1.001)	35082	0.50000	0.510
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1396320	10.0000	
	48 2,2,4-Trimethylpentane	57	5.754	5.754	(1.028)	87605	1.25000	1.26
	49 Heptane	43	5.873	5.873	(1.049)	12303	0.50000	0.489
	50 1,2-Dichloropropane	63	5.951	5.951	(1.063)	8119	0.50000	0.498
	51 Trichloroethene	130	5.973	5.973	(1.067)	11856	0.50000	0.505
	52 Methyl methacrylate	69	6.041	6.041	(1.079)	6980	0.50000	0.457(Q)
	53 1,4-Dioxane	88	6.082	6.082	(1.087)	4959	0.50000	0.471
	54 Bromodichloromethane	83	6.069	6.069	(1.084)	15732	0.50000	0.473
	55 Methylcyclohexane	98	6.417	6.417	(1.146)	5684	0.50000	0.456
	56 Methyl Isobutyl Ketone	43	6.532	6.532	(1.167)	41535	1.25000	1.21
	57 cis-1,3-Dichloropropene	75	6.581	6.581	(1.176)	11439	0.50000	0.499
	58 trans-1,3-Dichloropropene	75	6.976	6.976	(1.246)	9313	0.50000	0.452
$	59 Toluene-d8 (S)	98	7.066	7.066	(1.263)	1210085	10.0000	9.68
	60 1,1,2-Trichloroethane	97	7.131	7.131	(1.274)	9514	0.50000	0.508
	61 Toluene	91	7.143	7.143	(1.276)	28037	0.50000	0.497
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.854)	35043	1.25000	1.21
	63 n-Octane	43	7.574	7.574	(0.877)	15848	0.50000	0.505
	64 Dibromochloromethane	129	7.671	7.671	(0.888)	14525	0.50000	0.445
	65 1,2-Dibromoethane	107	7.899	7.899	(0.914)	14648	0.50000	0.495
	66 Tetrachloroethene	166	7.979	7.979	(0.924)	16369	0.50000	0.514
*	67 Chlorobenzene - d5	117	8.639	8.639	(1.000)	916612	10.0000	
	68 Chlorobenzene	112	8.677	8.677	(1.004)	23064	0.50000	0.507
	69 Ethyl Benzene	91	8.928	8.928	(1.033)	34544	0.50000	0.512
	70 m&p-Xylene	91	9.073	9.073	(1.050)	53813	1.00000	1.02
	71 n-Nonane	43	9.465	9.465	(1.096)	13912	0.50000	0.510
	72 Bromoform	173	9.471	9.471	(1.096)	10681	0.50000	0.457
	73 Styrene	104	9.503	9.503	(1.100)	19327	0.50000	0.490
	74 o-Xylene	91	9.574	9.574	(1.108)	26767	0.50000	0.497
	75 1,1,2,2-Tetrachloroethane	83	9.822	9.822	(1.137)	14184	0.50000	0.478
	76 Isopropylbenzene	105	10.153	10.153	(1.175)	37854	0.50000	0.497
	77 N-Propylbenzene	91	10.735	10.735	(1.243)	35990	0.50000	0.442

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.909	10.909	(1.263)	30251	0.50000	0.469
79	1,3,5-Trimethylbenzene	105	10.995	10.995	(1.273)	28097	0.50000	0.453
80	n-Decane	57	11.375	11.375	(2.032)	11603	0.50000	0.555
81	Tert-Butyl Benzene	119	11.490	11.490	(1.330)	30974	0.50000	0.509
82	1,2,4-Trimethylbenzene	105	11.507	11.507	(1.332)	26568	0.50000	0.488
83	1,3-Dichlorobenzene	146	11.790	11.790	(1.365)	16619	0.50000	0.420
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	37562	0.50000	0.493
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.851	(1.372)	463747	10.0000	9.18
86	Benzyl Chloride	91	11.860	11.860	(1.373)	9078	0.50000	0.508
87	1,4-Dichlorobenzene	146	11.883	11.883	(1.376)	16868	0.50000	0.473(M)
88	p-Isopropyltoluene	119	11.982	11.982	(1.387)	31230	0.50000	0.425
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.393)	26293	0.50000	0.489
90	1,2-Dichlorobenzene	146	12.275	12.275	(1.421)	14338	0.50000	0.457
91	N-Butylbenzene	91	12.458	12.458	(1.442)	20942	0.50000	0.353
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	3096	0.50000	0.404
93	1,2,4-Trichlorobenzene	180	14.043	14.043	(1.626)	2447	0.50000	0.536(Q)
94	Naphthalene	128	14.172	14.172	(1.641)	7018	0.50000	0.524
95	Hexachlorobutadiene	225	14.416	14.416	(1.669)	7964	0.50000	0.501

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06111.D
Lab Smp Id: cal3
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1396320	-1.26
67 Chlorobenzene - d	951026	570616	1331436	916612	-3.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06111.D

Date : 02-MAR-2017 12:14

Client ID:

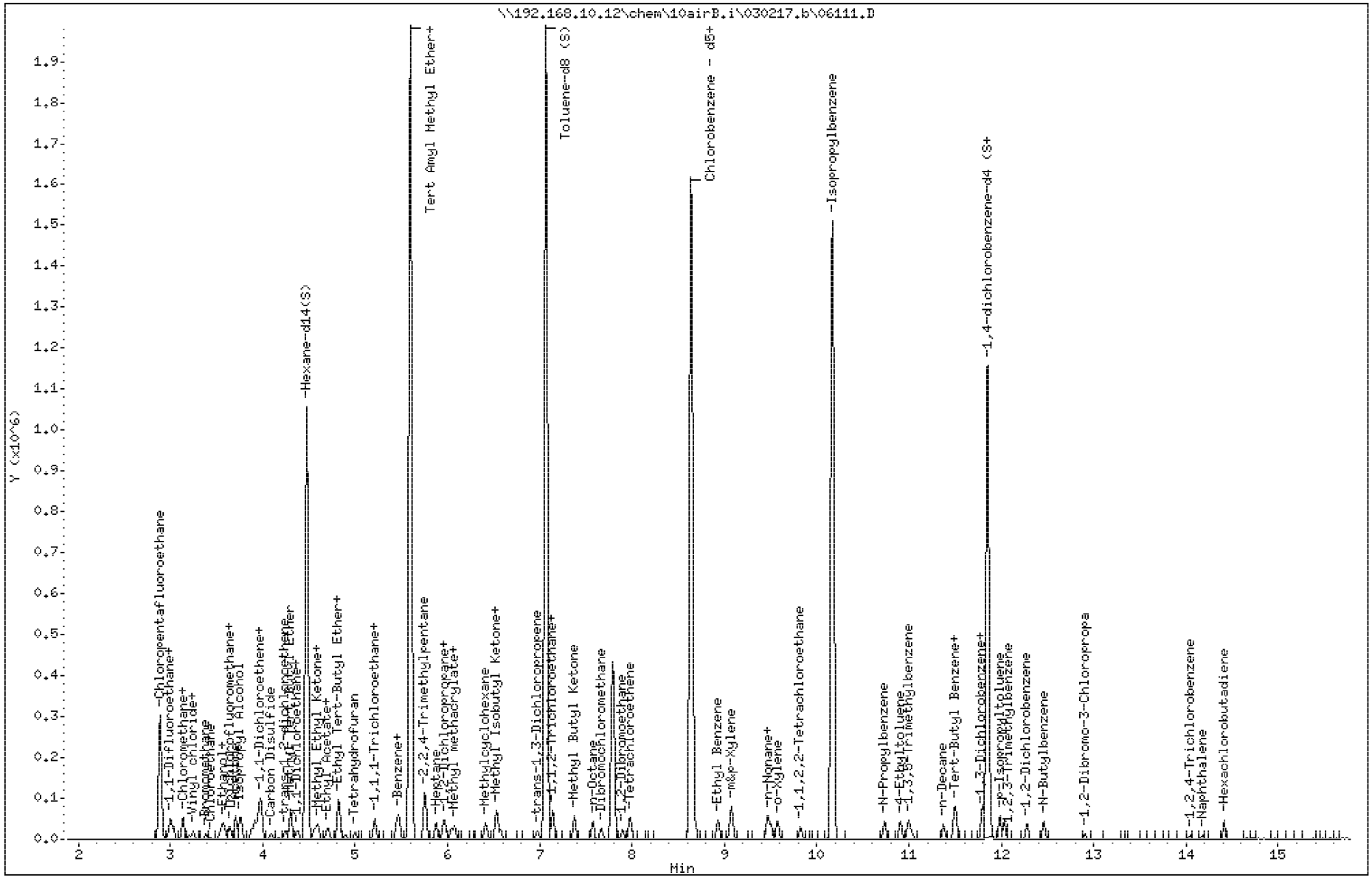
Instrument: 10airB.i

Sample Info:

Operator: MLS

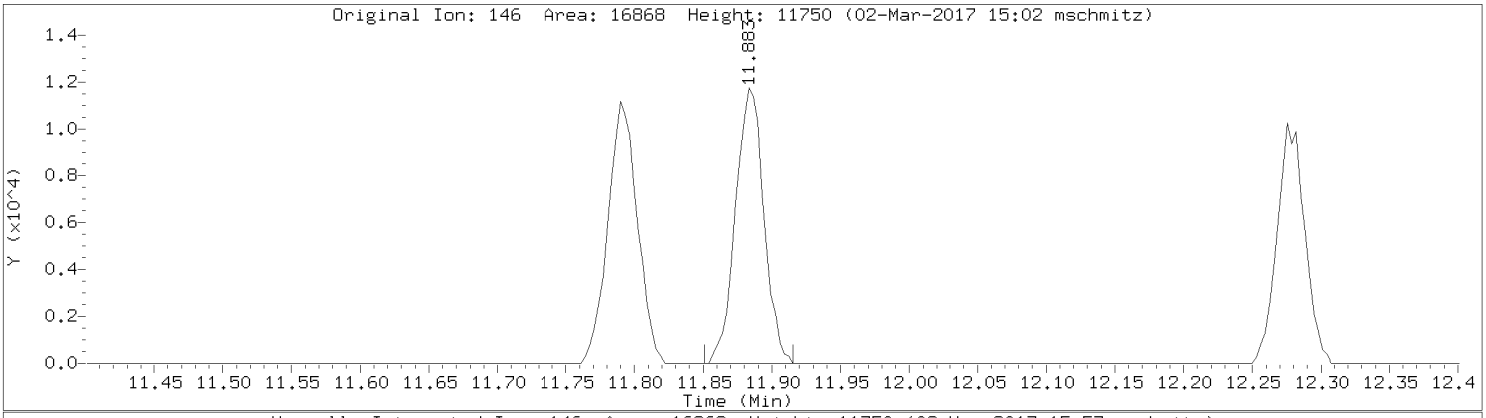
Column phase: J&W DB-5

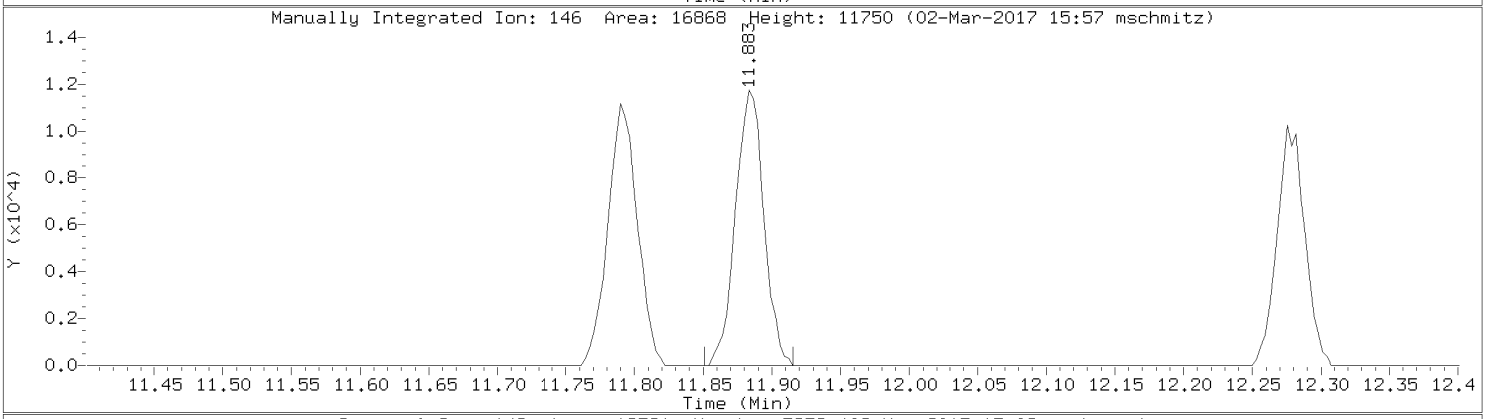
Column diameter: 0.32

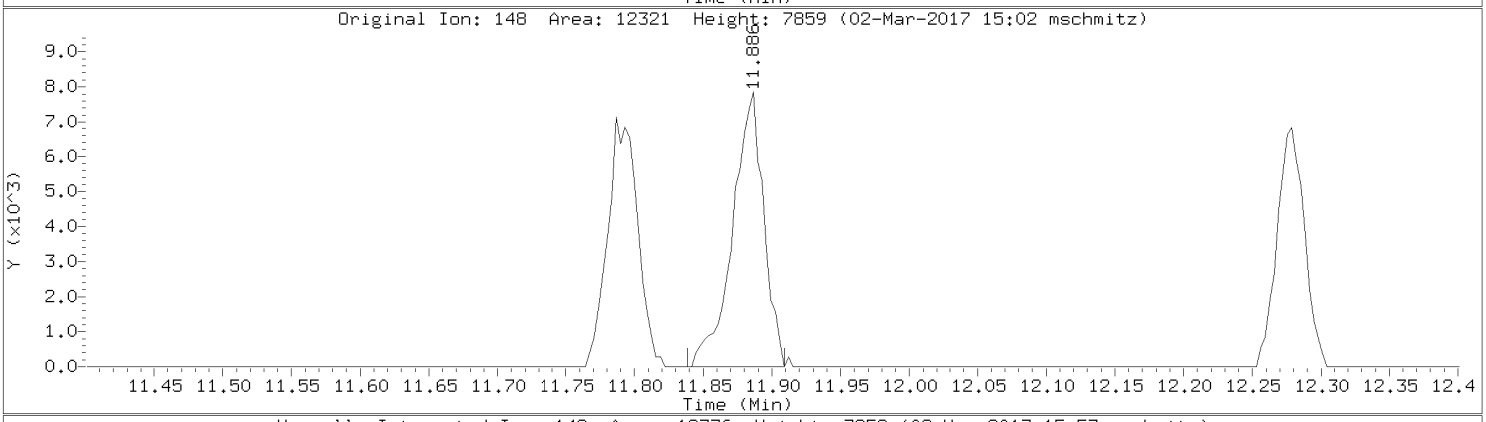


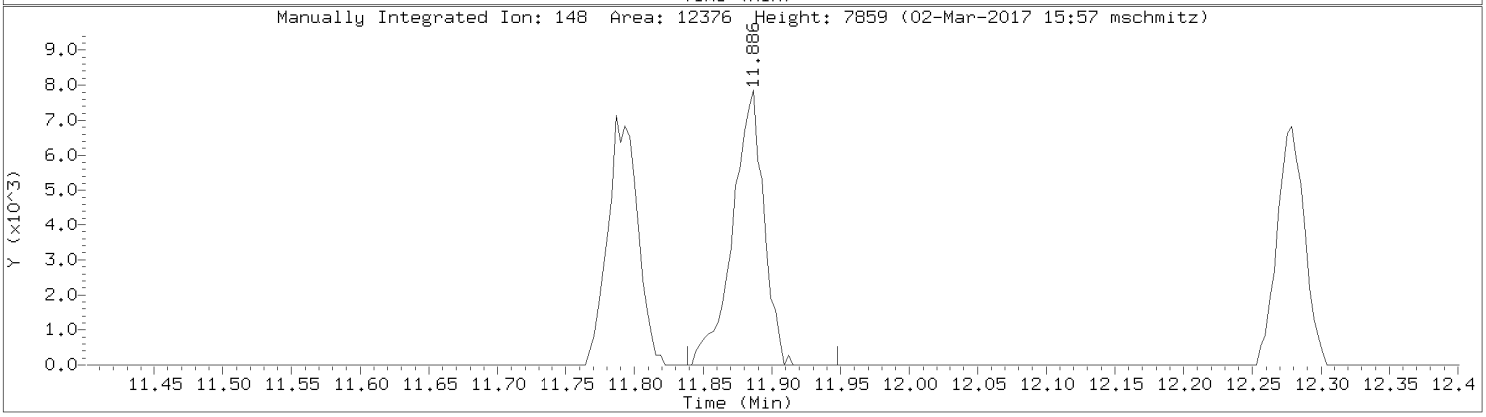
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

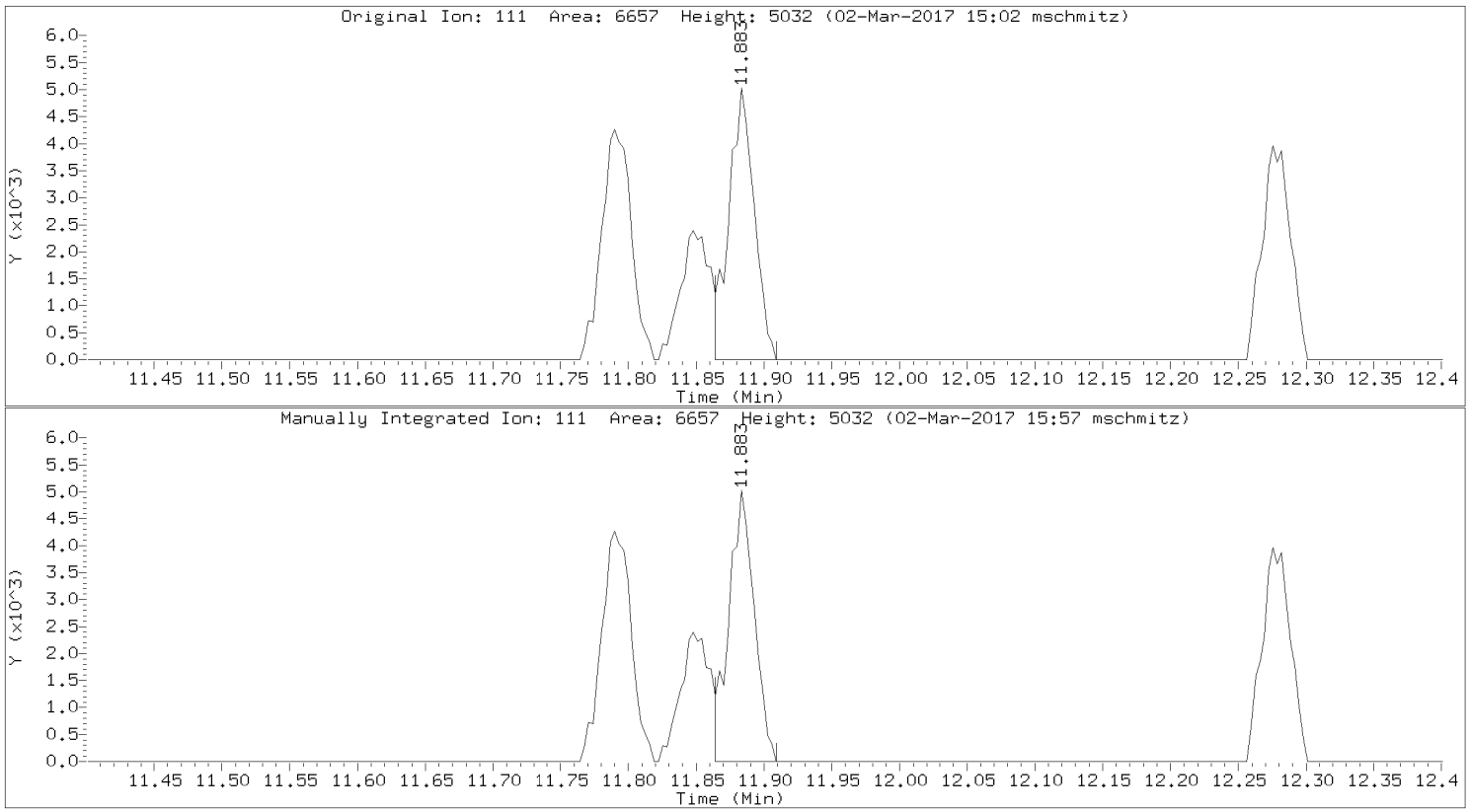






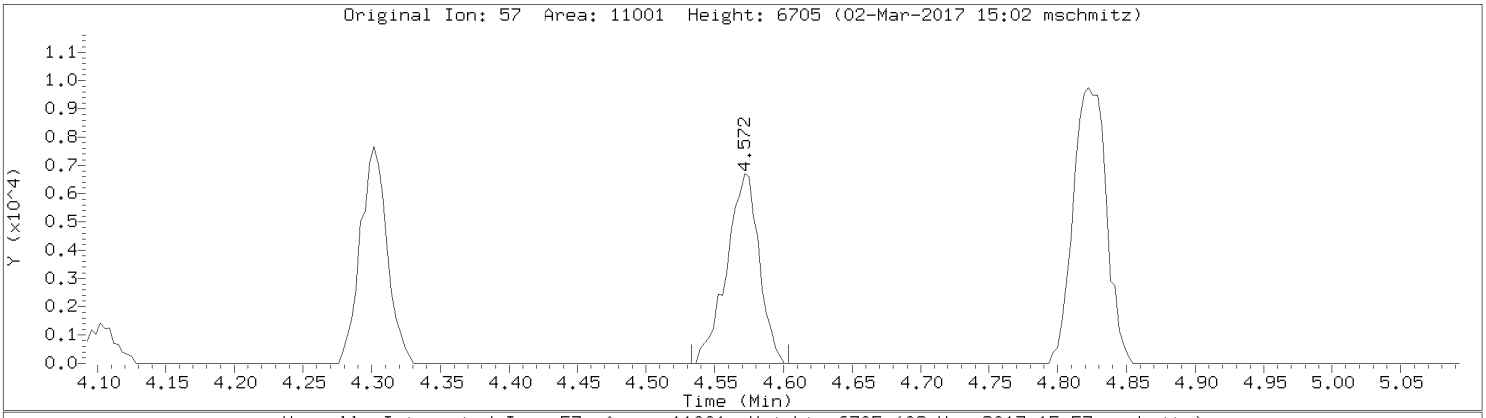


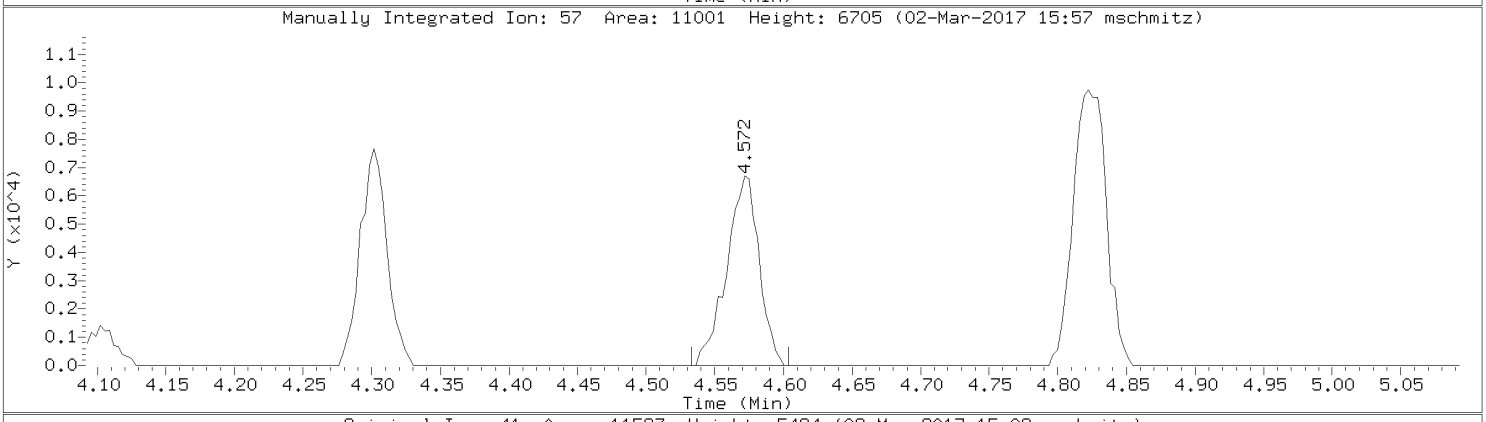
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

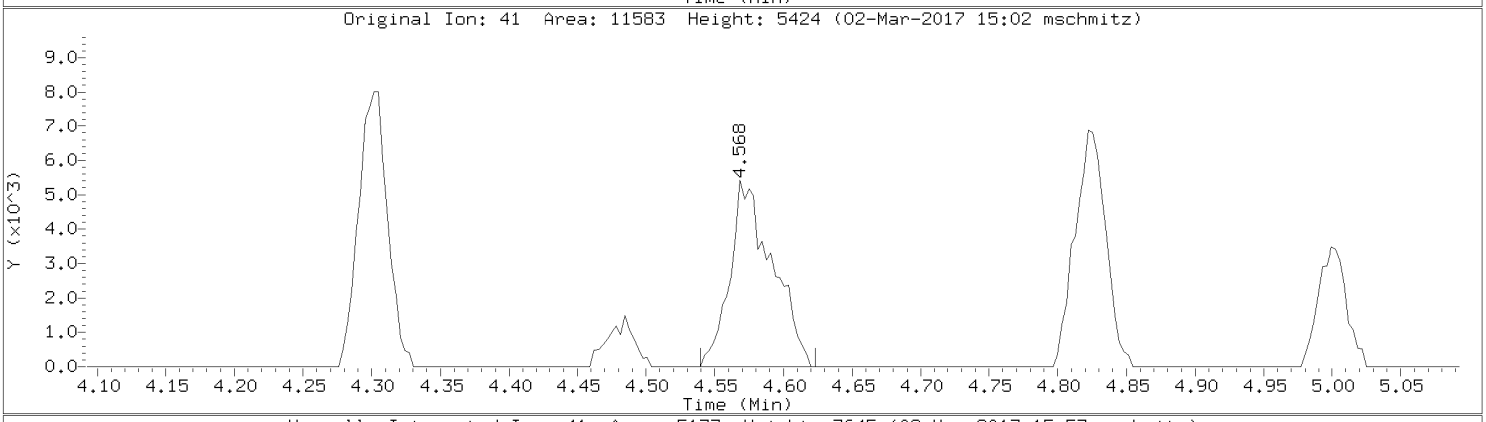


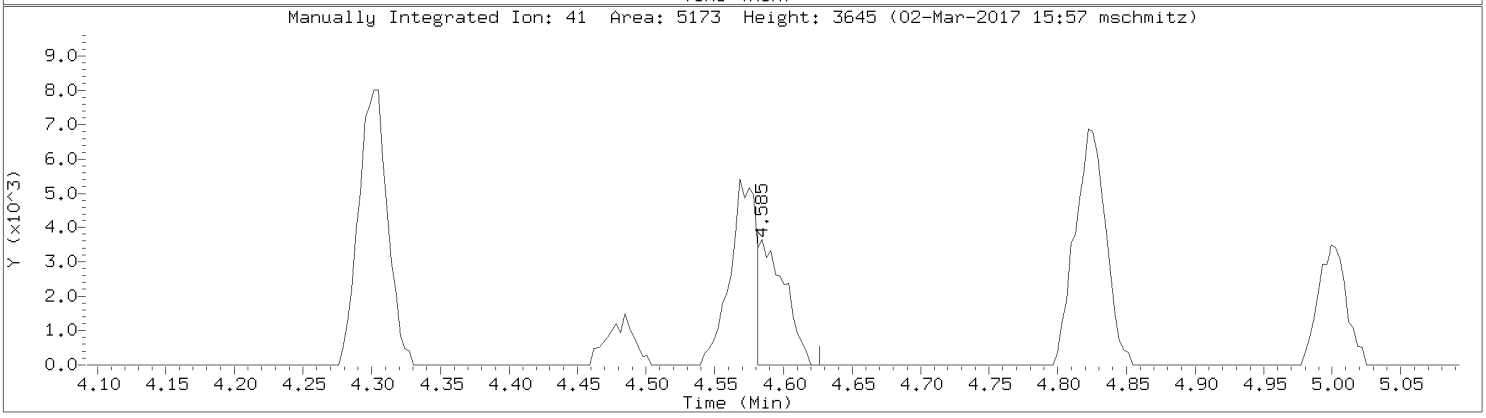
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: n-Hexane
CAS Number: 110-54-3

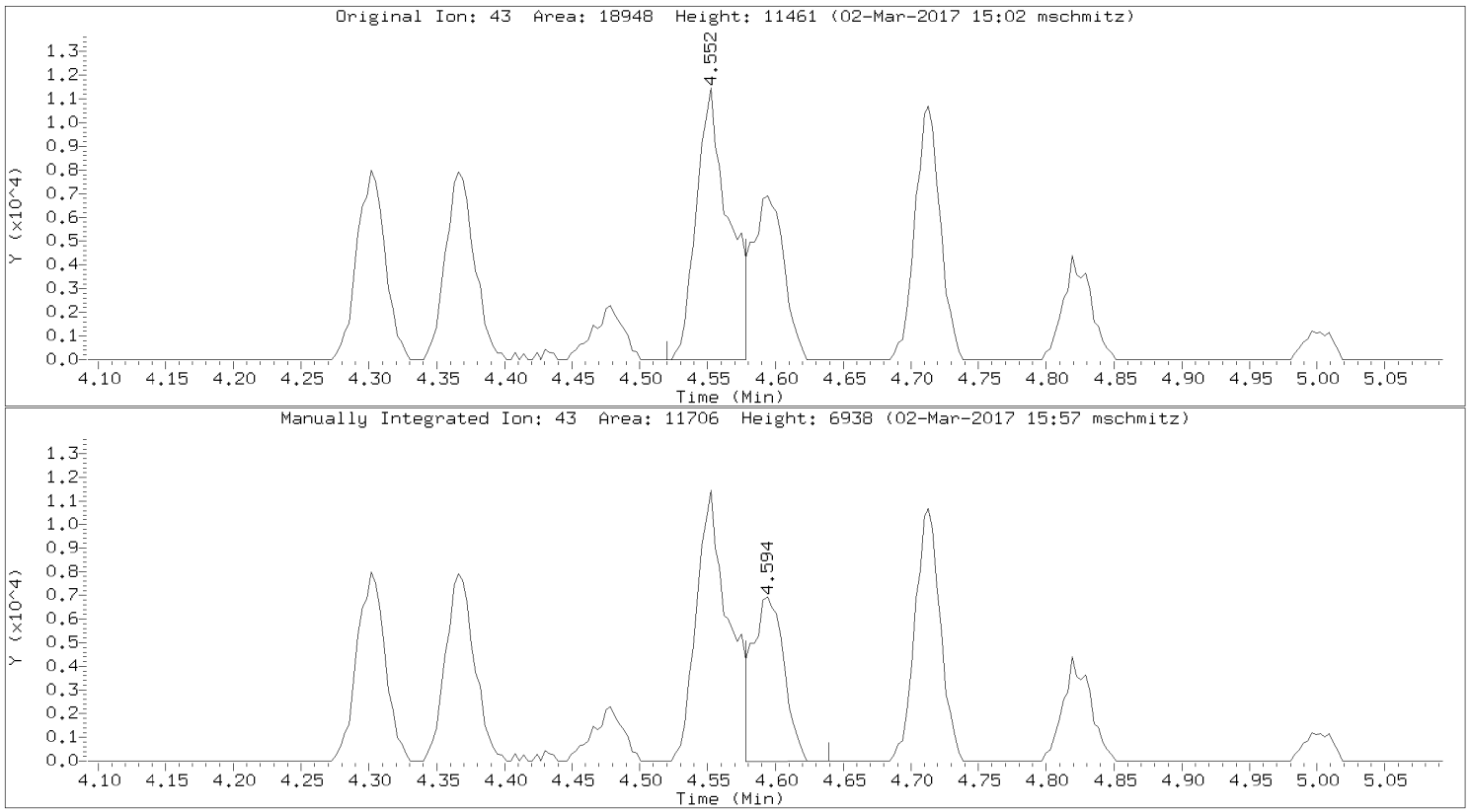






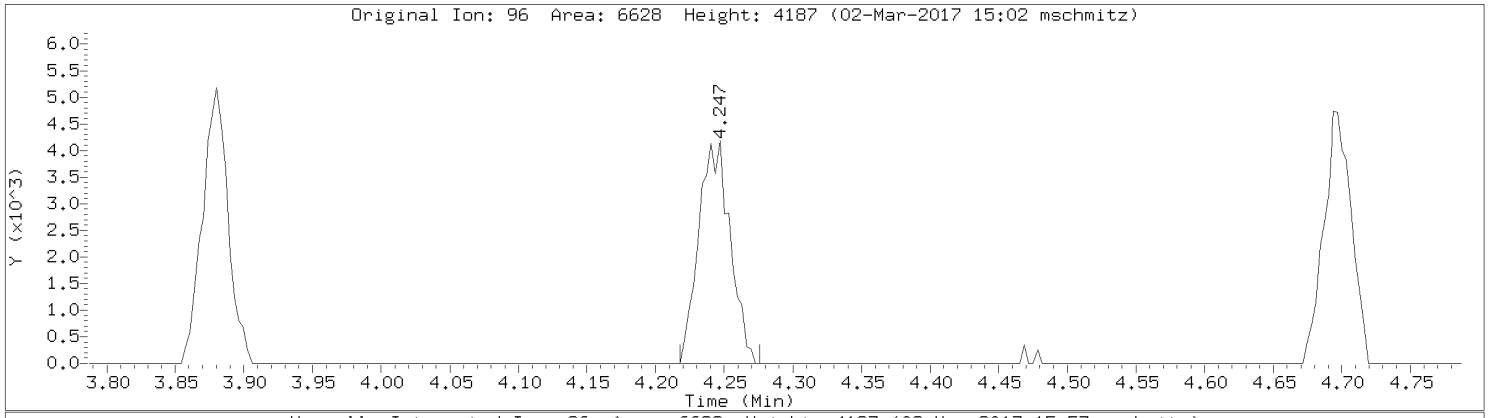


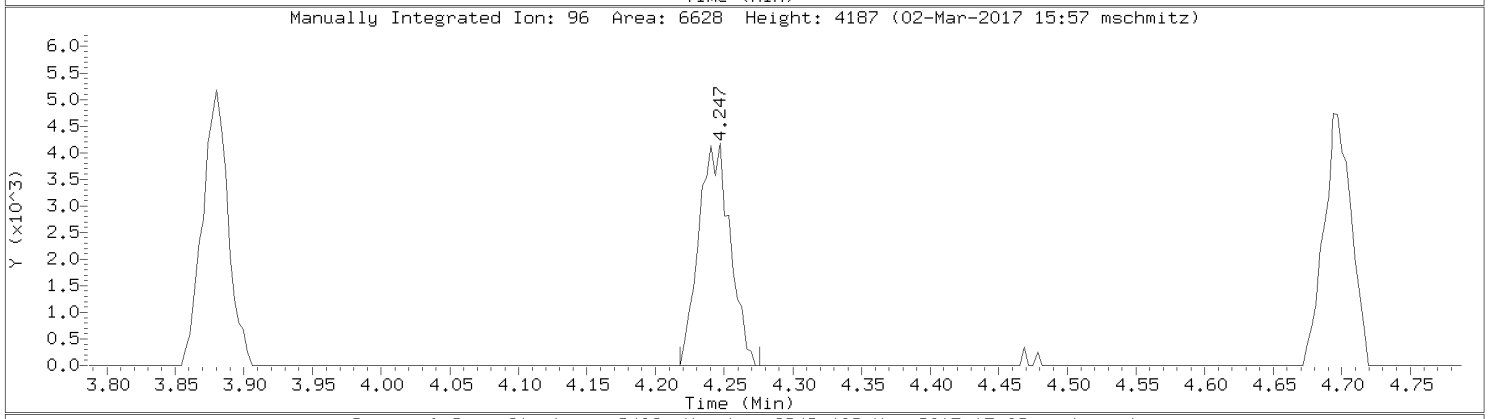
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

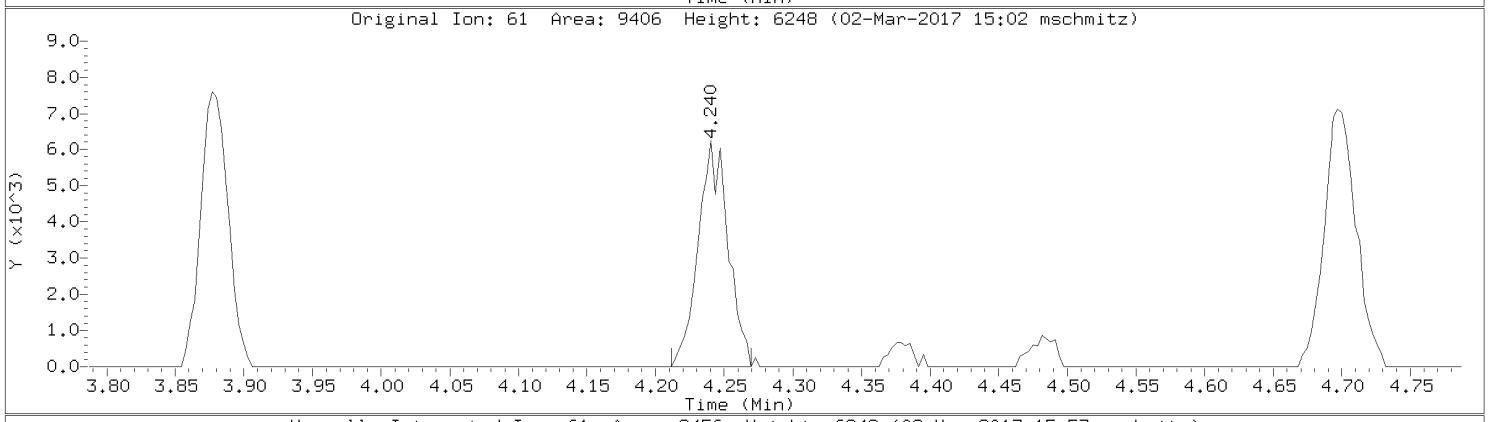


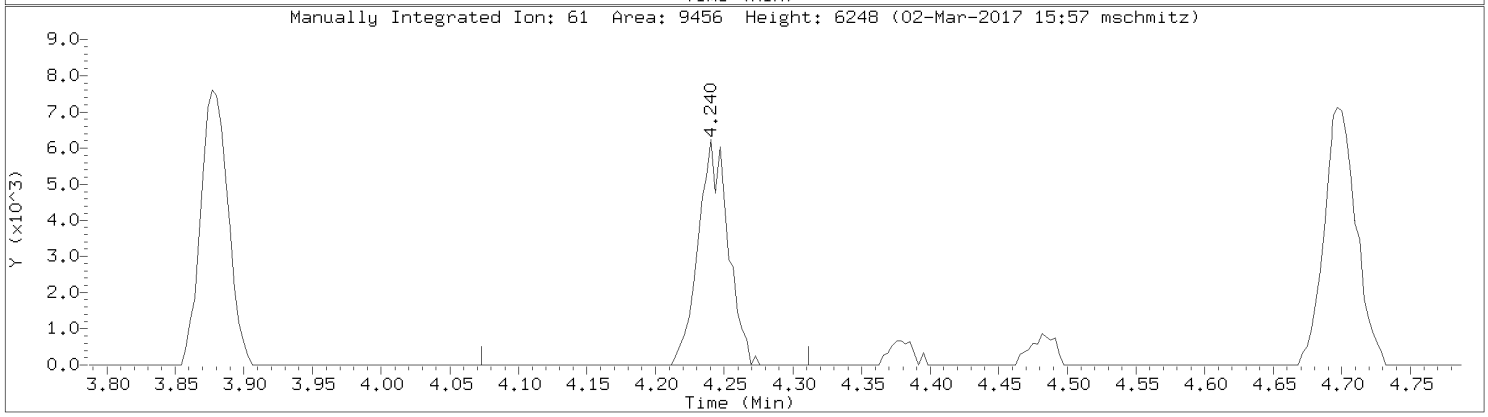
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: trans-1,2-dichloroethene
CAS Number: 156-60-5

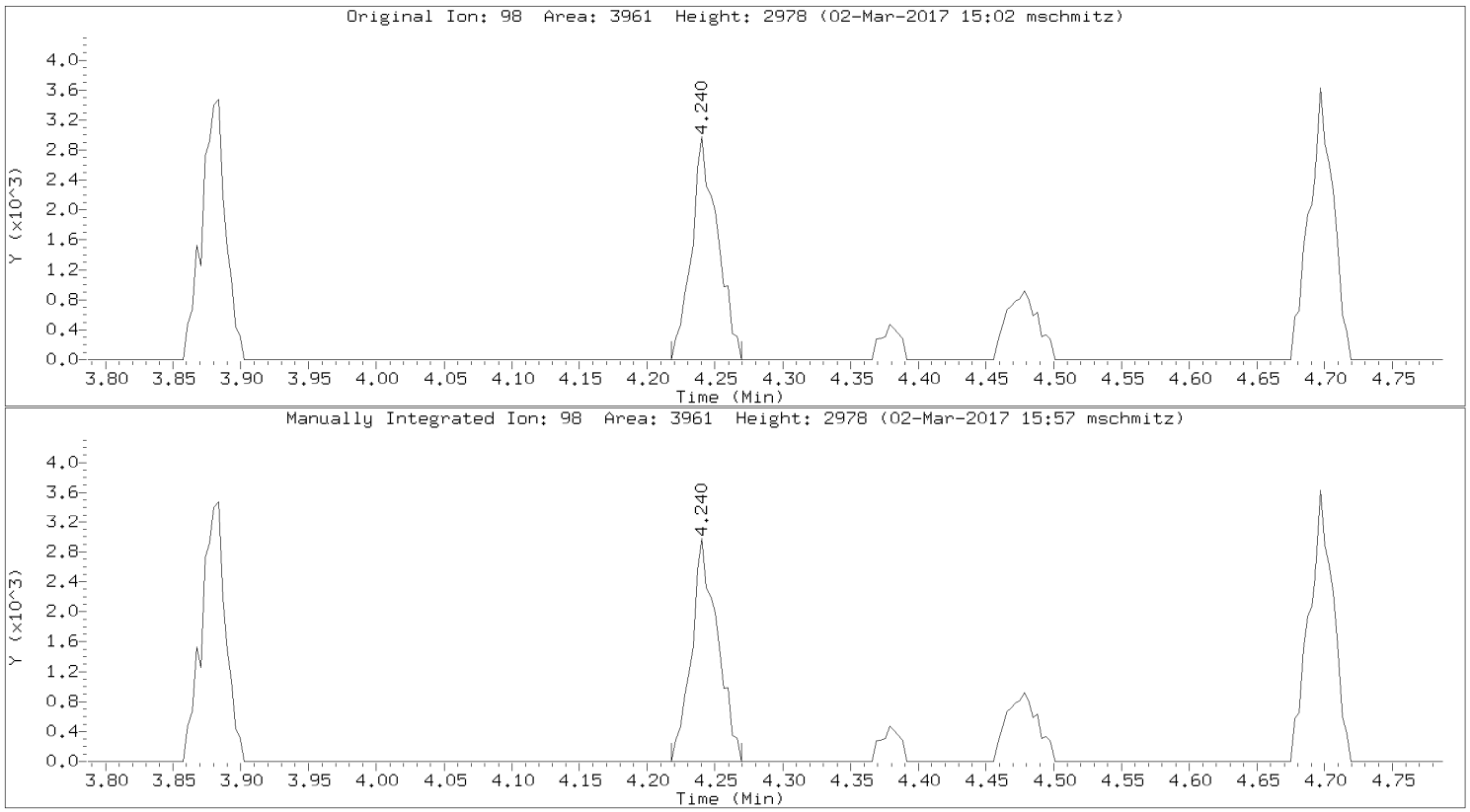






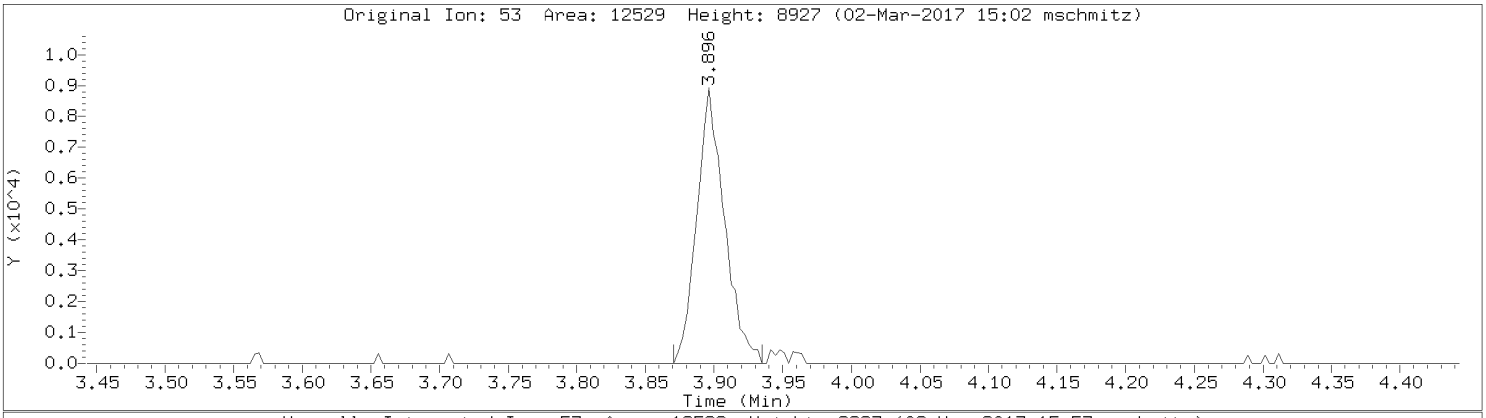


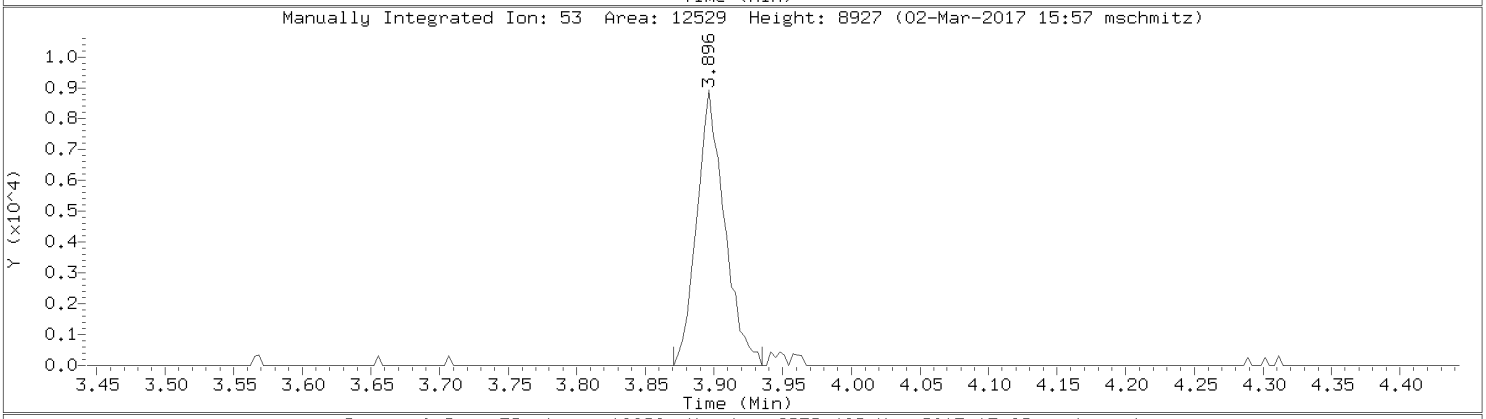
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

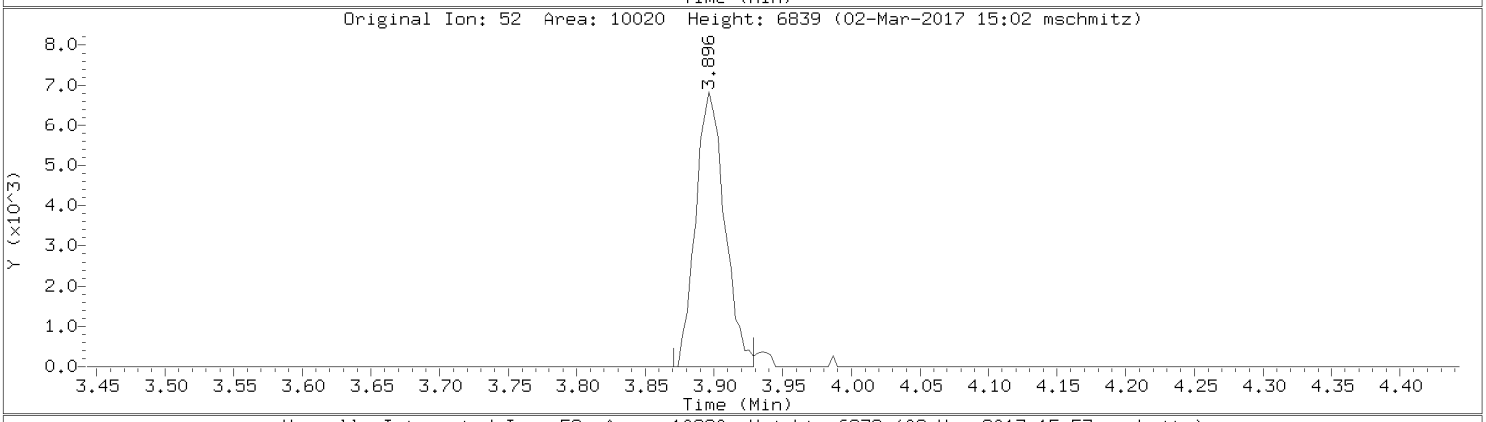


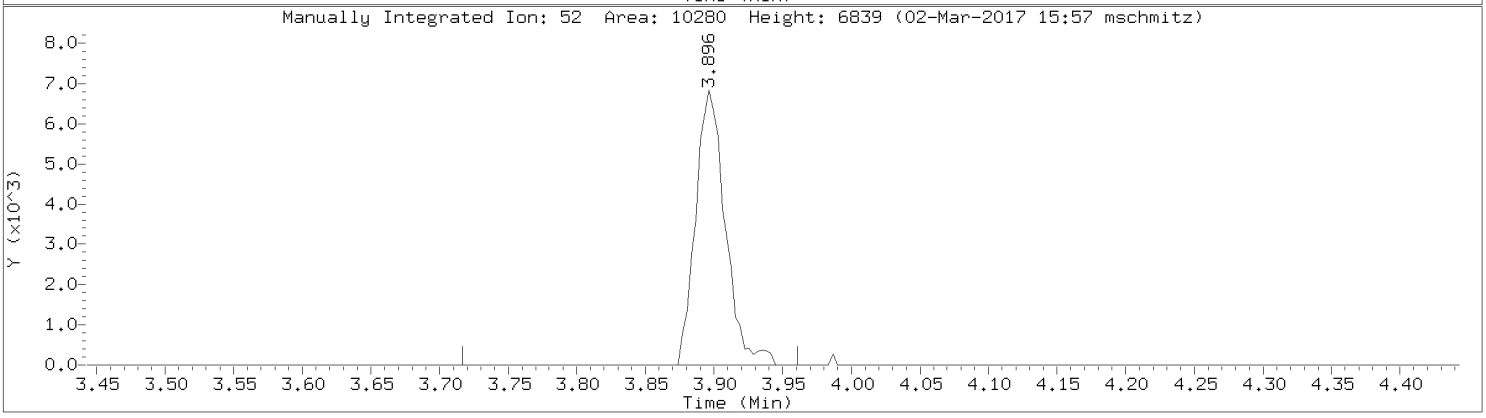
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Acrylonitrile
CAS Number: 107-13-1



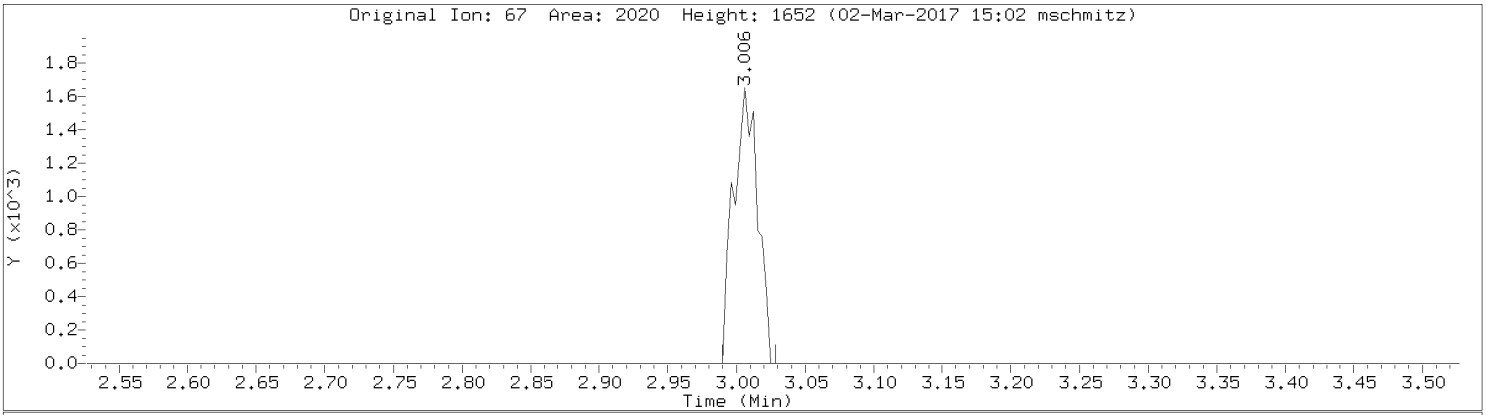


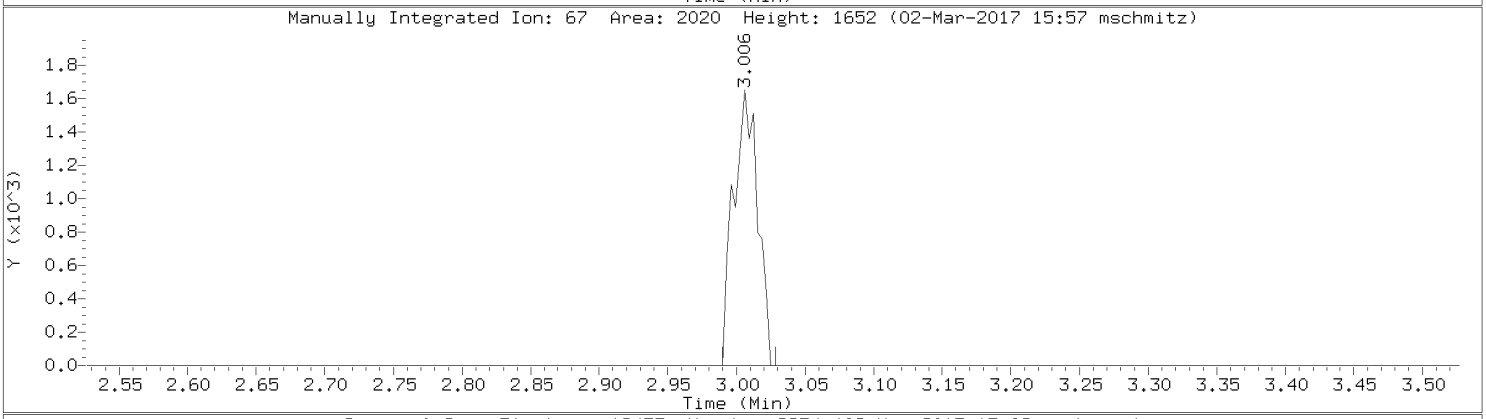


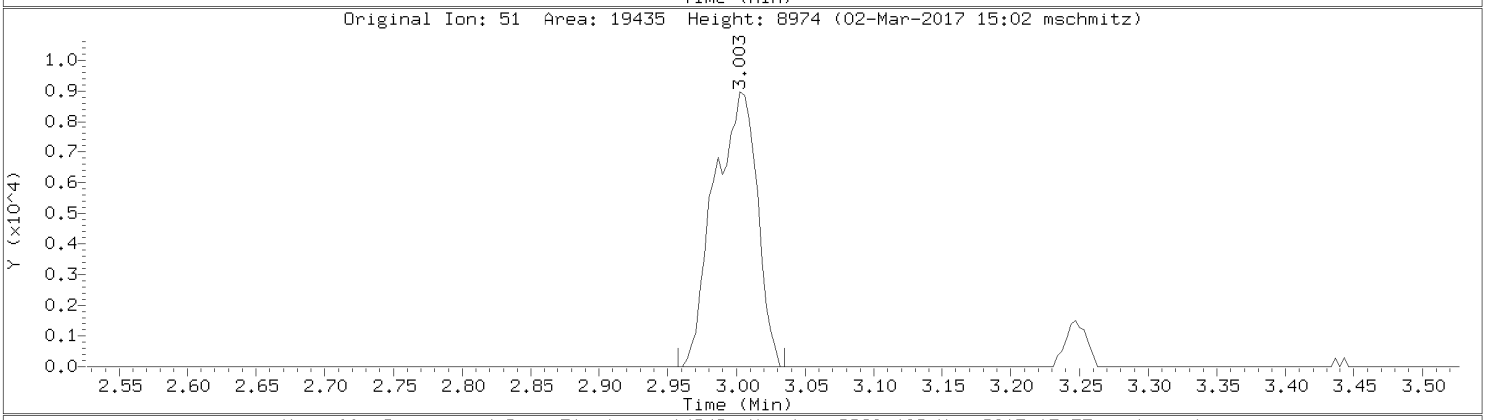


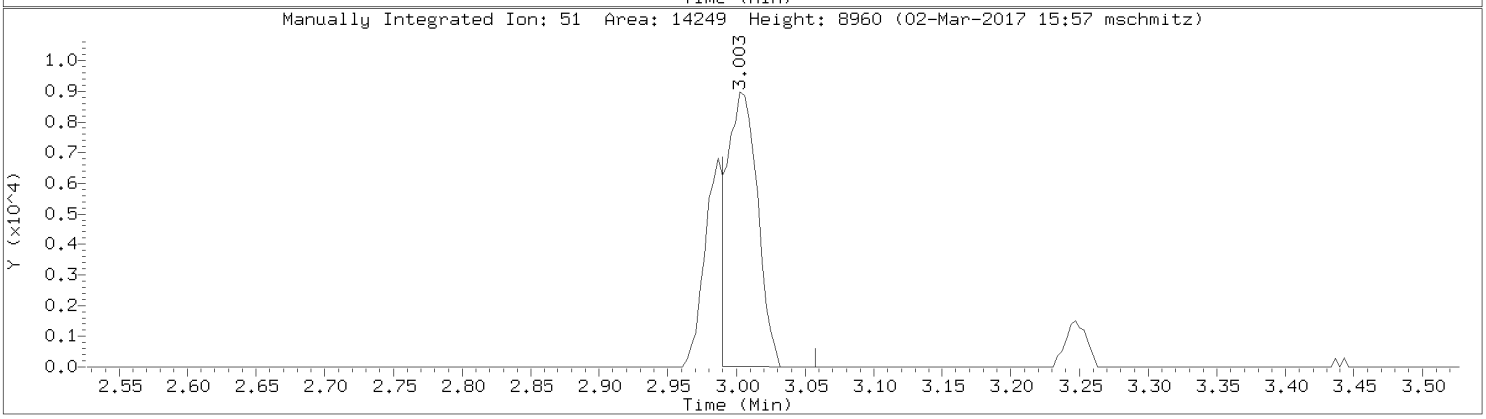
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

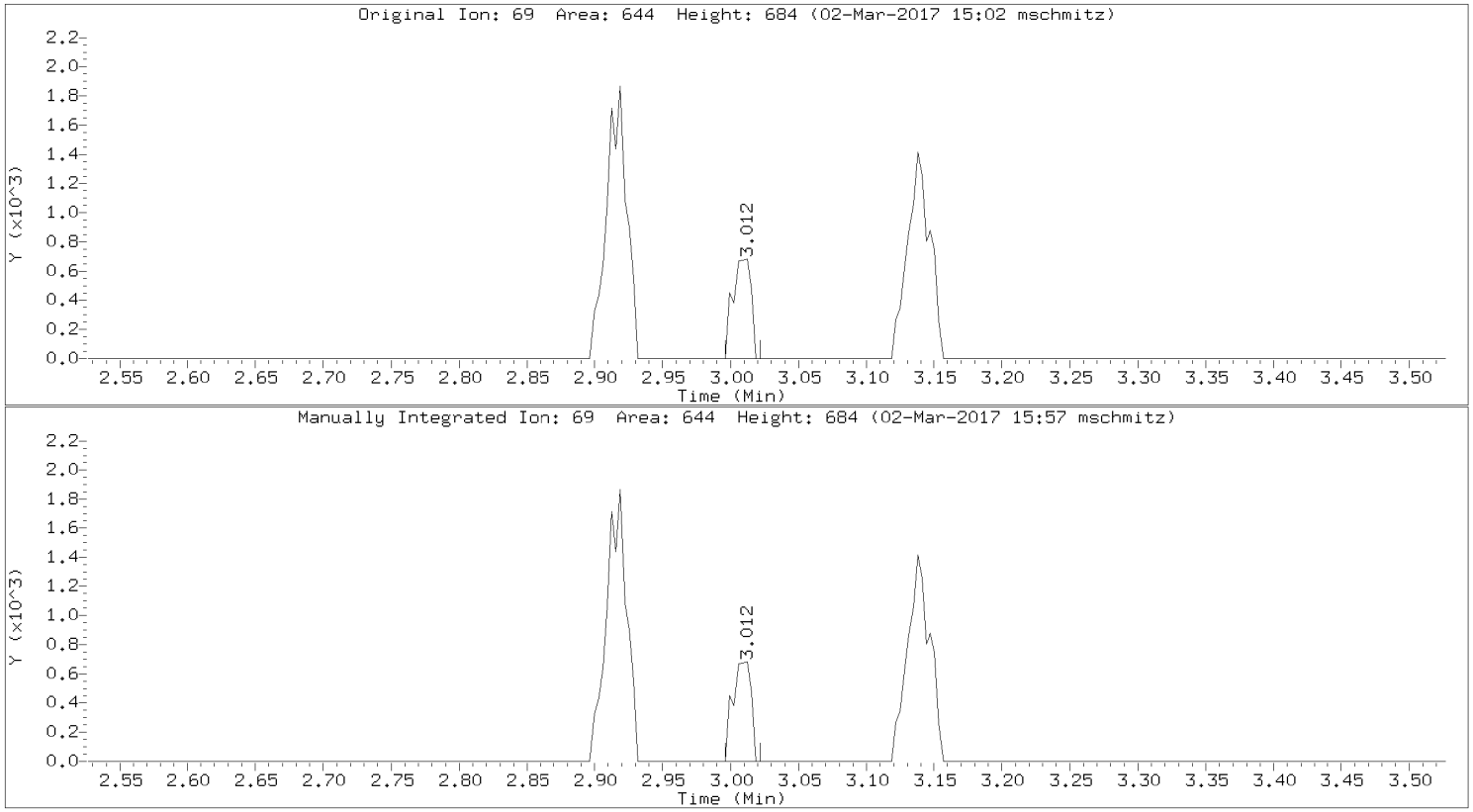






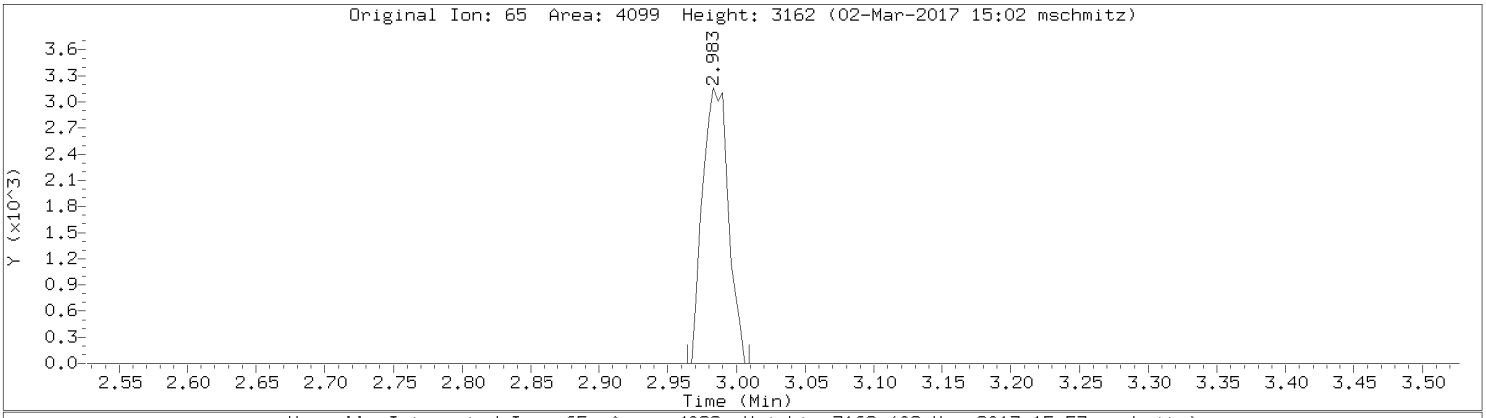


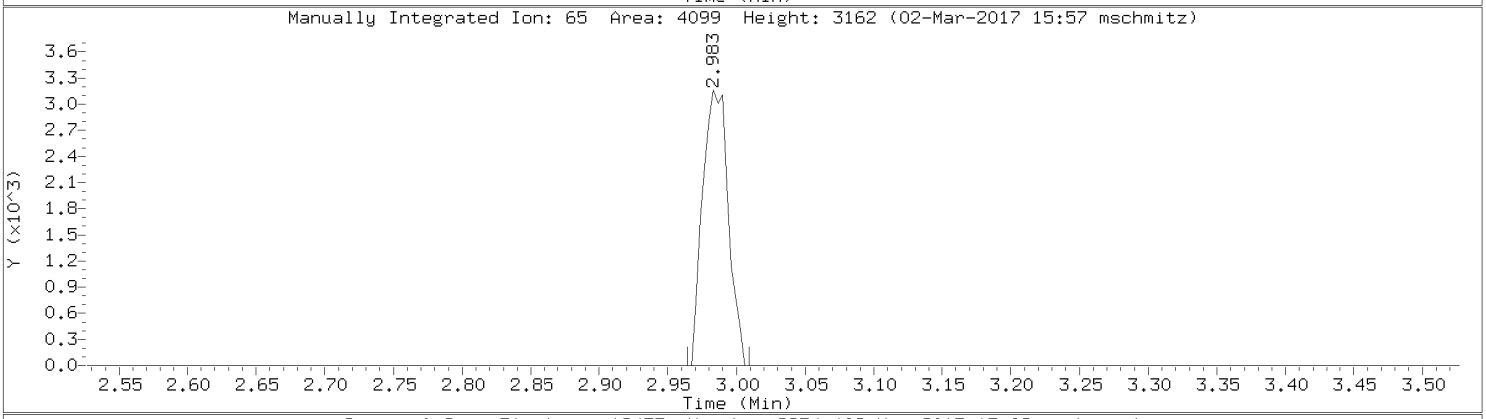
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

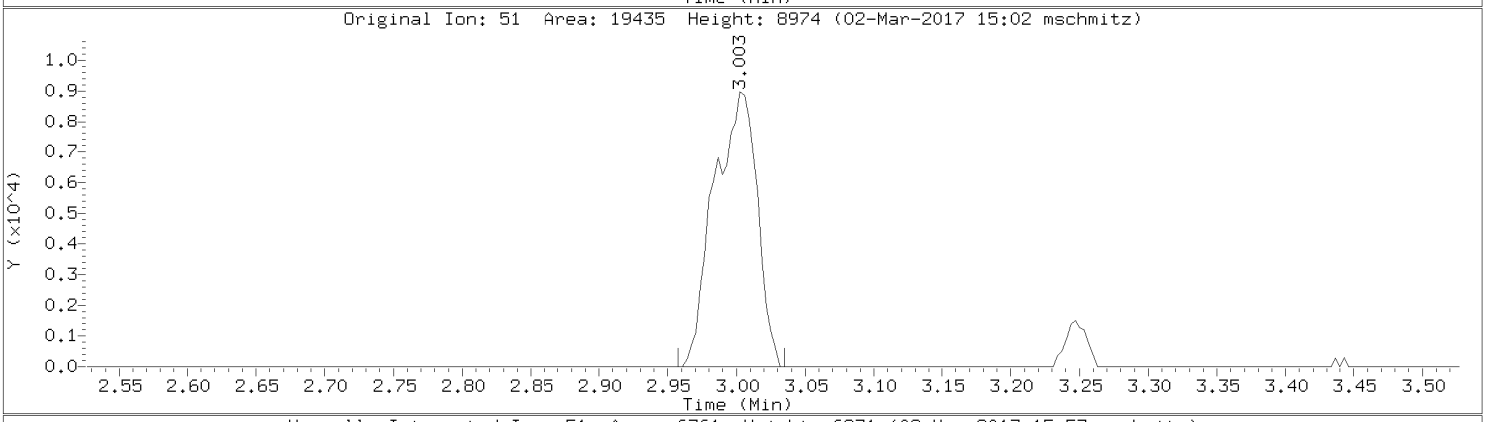


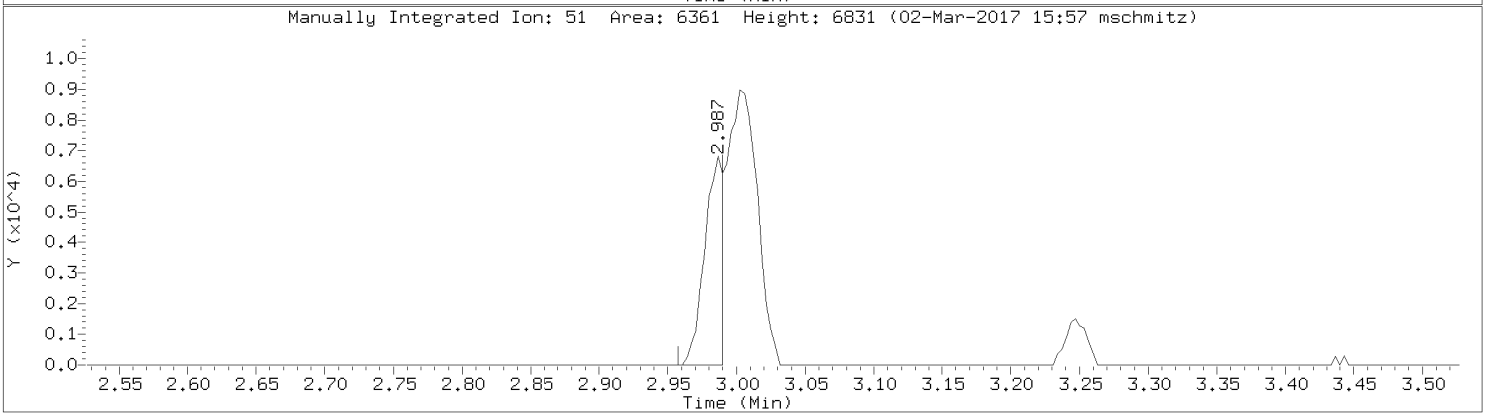
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

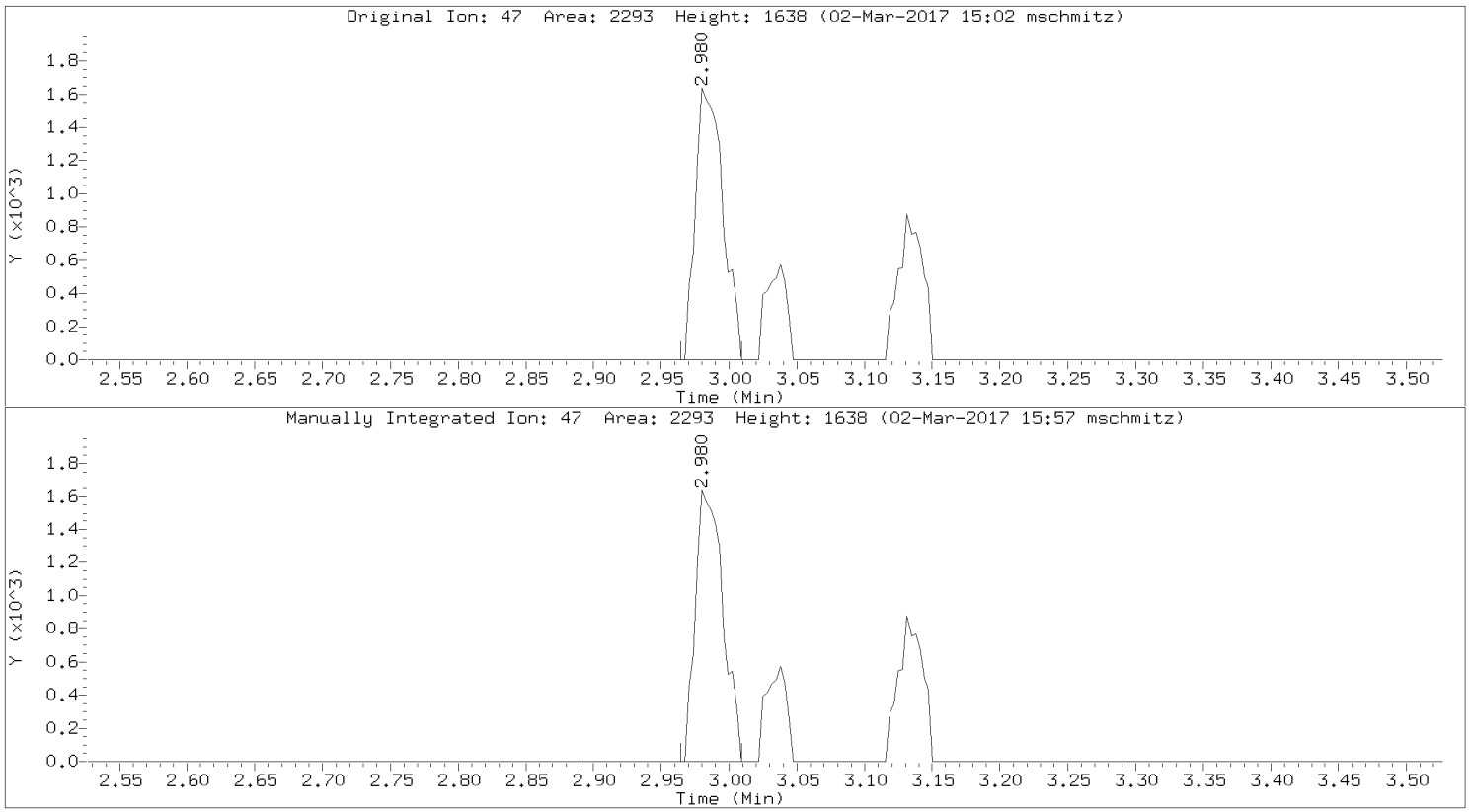








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06111.D
Injection Date: 02-MAR-2017 12:14
Instrument: 10airB.i
Lab Sample ID: cal3



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Lab Smp Id: cal4
Inj Date : 02-MAR-2017 12:43
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:00 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 12:14 Cal File: 06111.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.909	2.909	(0.520)	5096	1.00000	0.599
2	1,1-Difluoroethane	65	2.970	2.970	(0.531)	7969	1.00000	0.952(M)
3	Chlorodifluoromethane	67	2.996	2.996	(0.535)	3964	1.00000	0.950(QM)
4	Propylene	41	2.996	2.996	(0.535)	24954	1.00000	1.84
5	Dichlorodifluoromethane	85	3.024	3.024	(0.540)	41132	1.00000	0.942
6	Chloromethane	50	3.114	3.114	(0.557)	15341	1.00000	0.935
7	Dichlorotetrafluoroethane	85	3.127	3.127	(0.559)	37987	1.00000	0.958
8	Vinyl chloride	62	3.198	3.198	(0.571)	13137	1.00000	0.927
9	1,3-Butadiene	54	3.233	3.233	(0.578)	10271	1.00000	0.995
10	Bromomethane	94	3.375	3.375	(0.603)	12990	1.00000	0.991
11	Chloroethane	64	3.426	3.426	(0.612)	6244	1.00000	0.958
12	Ethanol	45	3.536	3.536	(0.632)	24172	5.00000	4.61
13	Vinyl Bromide	106	3.542	3.542	(0.633)	12928	1.00000	0.952
14	Isopentane	43	3.561	3.561	(0.636)	19900	1.00000	1.26
15	Freon 123	83	3.581	3.581	(0.640)	16103	1.00000	0.994(QM)
16	Trichlorofluoromethane	101	3.635	3.635	(0.650)	37831	1.00000	0.966
17	Acrolein	56	3.661	3.661	(0.654)	9510	2.50000	2.00
18	Acetone	43	3.703	3.703	(0.662)	109193	5.00000	4.82
19	Isopropyl Alcohol	45	3.754	3.754	(0.671)	111997	5.00000	4.85
20	1,1-Dichloroethene	61	3.877	3.877	(0.693)	22216	1.00000	0.976
21	Acrylonitrile	53	3.902	3.902	(0.697)	24858	2.50000	2.37
22	Freon 113	101	3.922	3.922	(0.701)	30017	1.00000	1.02
23	Methyl Acetate	43	3.941	3.941	(0.704)	33807	1.00000	0.980

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.947	3.947	(0.705)	74711	2.50000	2.52(Q)
	25 Methylene chloride	49	3.973	3.973	(0.710)	78356	5.00000	4.90
	26 Allyl Chloride	76	3.992	3.992	(0.713)	11220	2.50000	2.16(Q)
	27 Carbon Disulfide	76	4.089	4.089	(0.731)	29419	1.00000	0.977
	28 trans-1,2-dichloroethene	96	4.246	4.246	(0.759)	12940	1.00000	1.01
	29 Methyl Tert Butyl Ether	73	4.298	4.298	(0.768)	91617	2.50000	2.52
	30 Vinyl Acetate	43	4.368	4.368	(0.781)	24341	1.00000	0.812
	31 1,1-Dichloroethane	63	4.385	4.385	(0.783)	24116	1.00000	0.969
$	32 Hexane-d14(S)	66	4.475	4.475	(0.799)	448062	10.0000	9.86
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.813)	6401	1.00000	1.01(Q)
	34 n-Hexane	57	4.571	4.571	(0.817)	22576	1.00000	0.991(QM)
	35 Di-isopropyl Ether	45	4.594	4.594	(0.821)	44999	1.00000	1.02
	36 Ethyl Acetate	43	4.712	4.712	(0.842)	28768	1.00000	0.982
	37 cis-1,2-Dichloroethene	96	4.700	4.700	(0.840)	14577	1.00000	1.02
	38 Ethyl Tert-Butyl Ether	59	4.822	4.822	(0.862)	126696	2.50000	2.74
	39 Chloroform	83	4.815	4.815	(0.860)	31780	1.00000	1.07
	40 Tetrahydrofuran	42	4.999	4.999	(0.893)	15752	1.00000	0.996
	41 1,1,1-Trichloroethane	97	5.211	5.211	(0.931)	34753	1.00000	0.998
	42 1,2-Dichloroethane	62	5.217	5.217	(0.932)	25561	1.00000	0.968
	43 Benzene	78	5.452	5.452	(0.974)	44654	1.00000	0.970
	44 Carbon tetrachloride	117	5.468	5.468	(0.977)	33323	1.00000	0.958
	45 Cyclohexane	56	5.478	5.478	(0.979)	23074	1.00000	1.00
	46 Tert Amyl Methyl Ether	73	5.600	5.600	(1.001)	56548	1.00000	0.984
*	47 1,4-Difluorobenzene	114	5.597	5.597	(1.000)	1428064	10.0000	
	48 2,2,4-Trimethylpentane	57	5.757	5.757	(1.029)	182858	2.50000	2.56
	49 Heptane	43	5.876	5.876	(1.050)	25546	1.00000	0.993
	50 1,2-Dichloropropane	63	5.957	5.957	(1.064)	16664	1.00000	0.999
	51 Trichloroethene	130	5.973	5.973	(1.067)	24010	1.00000	1.00
	52 Methyl methacrylate	69	6.044	6.044	(1.080)	14752	1.00000	0.945
	53 1,4-Dioxane	88	6.079	6.079	(1.086)	9882	1.00000	0.918
	54 Bromodichloromethane	83	6.076	6.076	(1.086)	32727	1.00000	0.963
	55 Methylcyclohexane	98	6.420	6.420	(1.147)	12229	1.00000	0.962
	56 Methyl Isobutyl Ketone	43	6.532	6.532	(1.167)	87436	2.50000	2.49
	57 cis-1,3-Dichloropropene	75	6.577	6.577	(1.175)	23875	1.00000	0.920
	58 trans-1,3-Dichloropropene	75	6.976	6.976	(1.246)	20281	1.00000	0.865
$	59 Toluene-d8 (S)	98	7.069	7.069	(1.263)	1242398	10.0000	9.72
	60 1,1,2-Trichloroethane	97	7.134	7.134	(1.275)	18202	1.00000	0.950
	61 Toluene	91	7.146	7.146	(1.277)	56798	1.00000	0.985
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.854)	73136	2.50000	2.46
	63 n-Octane	43	7.577	7.577	(0.877)	33052	1.00000	1.03
	64 Dibromochloromethane	129	7.674	7.674	(0.888)	31027	1.00000	0.877
	65 1,2-Dibromoethane	107	7.902	7.902	(0.915)	30387	1.00000	1.00
	66 Tetrachloroethene	166	7.982	7.982	(0.924)	32617	1.00000	0.998
*	67 Chlorobenzene - d5	117	8.638	8.638	(1.000)	941467	10.0000	
	68 Chlorobenzene	112	8.683	8.683	(1.005)	45167	1.00000	0.967
	69 Ethyl Benzene	91	8.931	8.931	(1.034)	71332	1.00000	1.03
	70 m&p-Xylene	91	9.076	9.076	(1.051)	110623	2.00000	2.04
	71 n-Nonane	43	9.465	9.465	(1.096)	30417	1.00000	1.09
	72 Bromoform	173	9.478	9.478	(1.097)	23365	1.00000	0.782
	73 Styrene	104	9.500	9.500	(1.100)	41273	1.00000	0.936
	74 o-Xylene	91	9.574	9.574	(1.108)	56685	1.00000	1.03
	75 1,1,2,2-Tetrachloroethane	83	9.825	9.825	(1.137)	29718	1.00000	0.975
	76 Isopropylbenzene	105	10.159	10.159	(1.176)	75799	1.00000	0.969
	77 N-Propylbenzene	91	10.738	10.738	(1.243)	77311	1.00000	0.897

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.908	10.908	(1.263)	69266	1.00000	0.924
79	1,3,5-Trimethylbenzene	105	10.998	10.998	(1.273)	61066	1.00000	0.937
80	n-Decane	57	11.375	11.375	(2.032)	27313	1.00000	0.968
81	Tert-Butyl Benzene	119	11.494	11.494	(1.331)	64150	1.00000	1.03
82	1,2,4-Trimethylbenzene	105	11.506	11.506	(1.332)	58777	1.00000	1.05
83	1,3-Dichlorobenzene	146	11.789	11.789	(1.365)	35362	1.00000	0.881
84	Sec- Butylbenzene	105	11.802	11.802	(1.366)	82203	1.00000	1.05
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.850	11.850	(1.372)	501607	10.0000	9.67
86	Benzyl Chloride	91	11.860	11.860	(1.373)	22499	1.00000	0.809
87	1,4-Dichlorobenzene	146	11.886	11.886	(1.376)	36268	1.00000	0.990
88	p-Isopropyltoluene	119	11.982	11.982	(1.387)	67948	1.00000	0.905
89	1,2,3-Trimethylbenzene	105	12.031	12.031	(1.393)	56080	1.00000	1.02
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.421)	32463	1.00000	0.900
91	N-Butylbenzene	91	12.458	12.458	(1.442)	47311	1.00000	0.803
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.494)	7071	1.00000	0.658
93	1,2,4-Trichlorobenzene	180	14.040	14.040	(1.625)	7389	1.00000	0.843
94	Naphthalene	128	14.175	14.175	(1.641)	19022	1.00000	0.824
95	Hexachlorobutadiene	225	14.413	14.413	(1.668)	17650	1.00000	1.08

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Report Date: 02-Mar-2017 16:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06112.D
Lab Smp Id: cal4
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

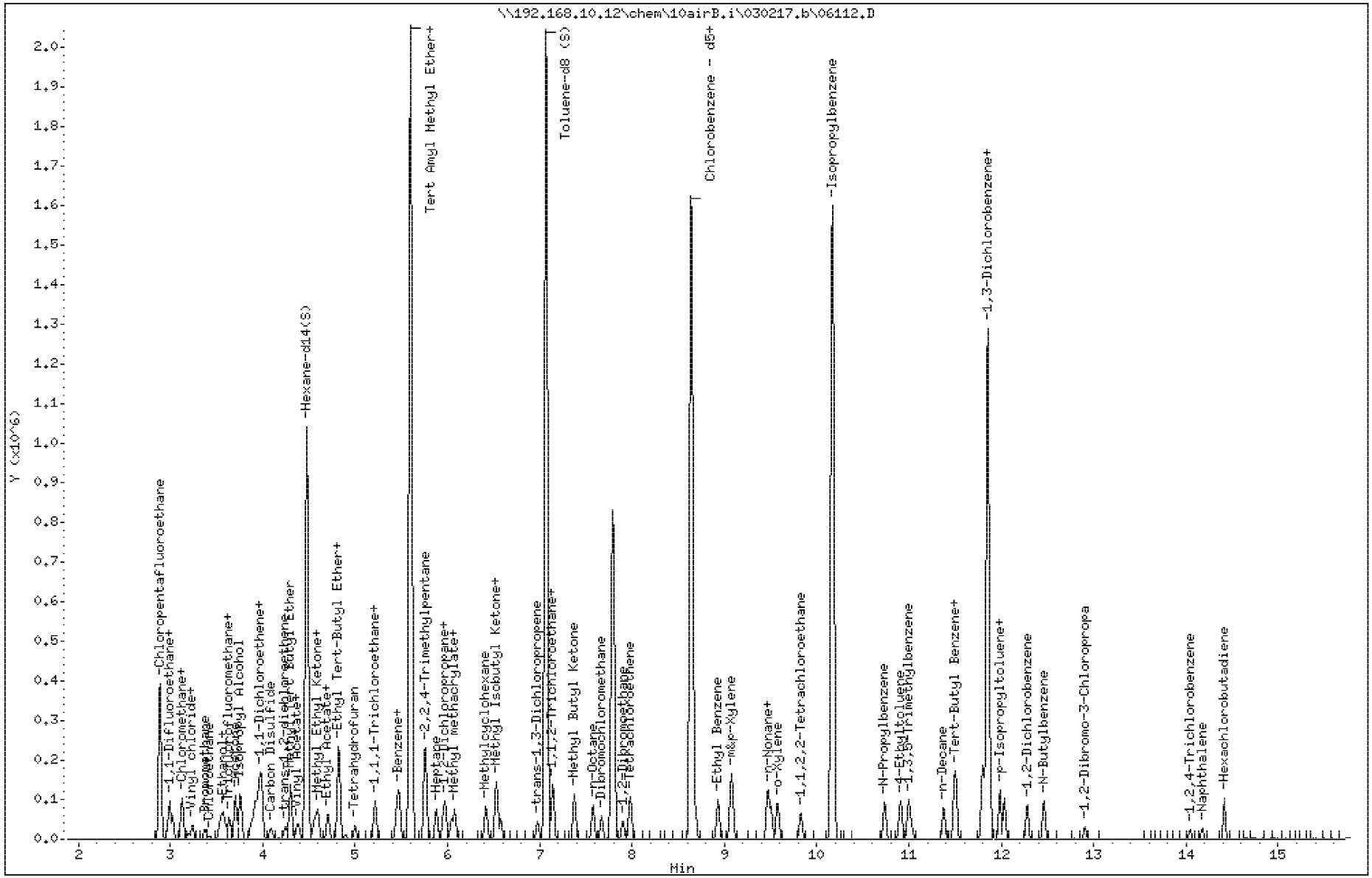
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1428064	0.99
67 Chlorobenzene - d	951026	570616	1331436	941467	-1.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.29
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

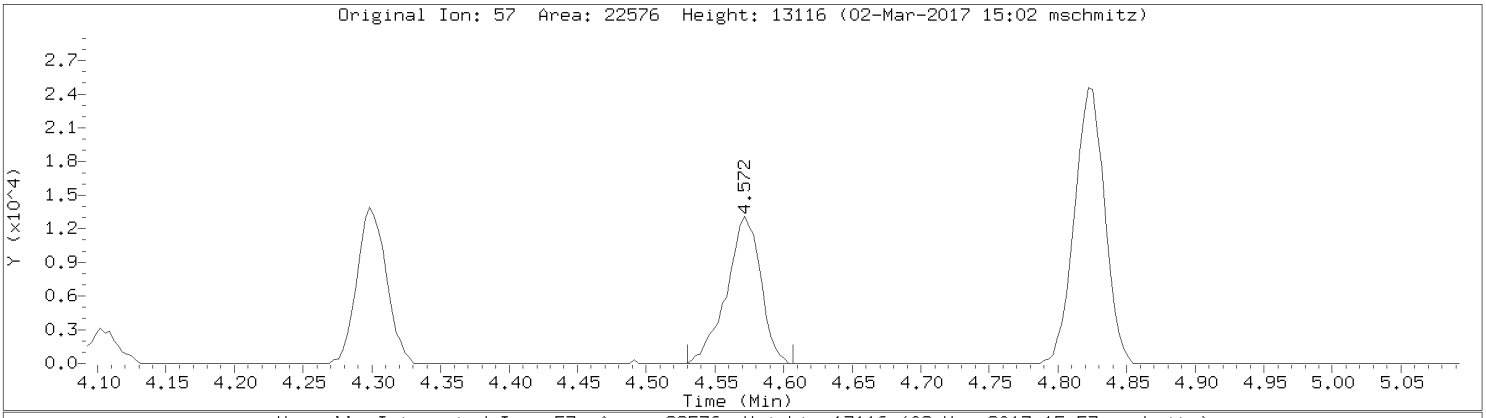
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Date : 02-MAR-2017 12:43
Client ID:
Sample Info:

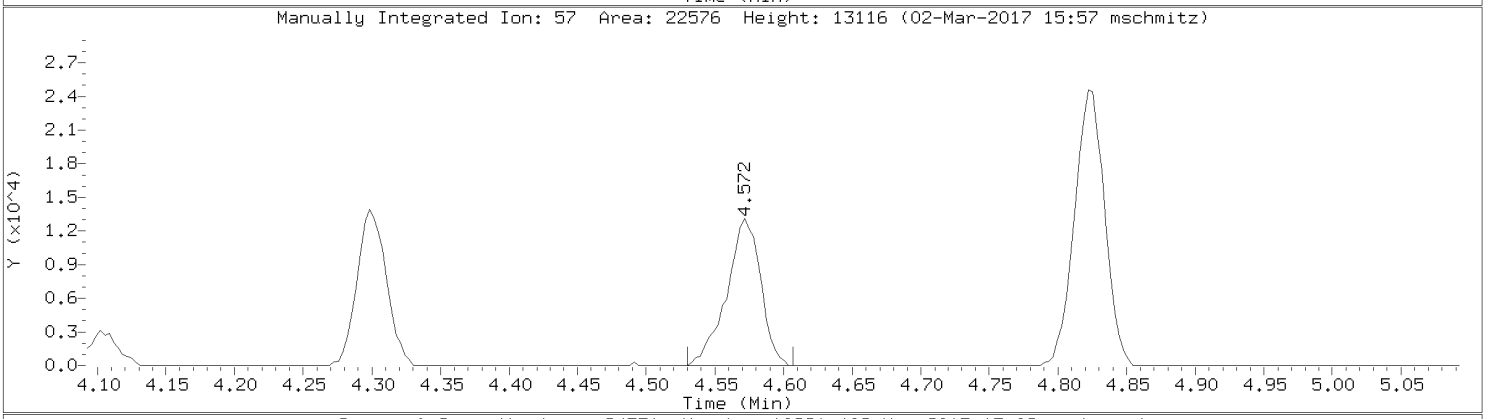
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

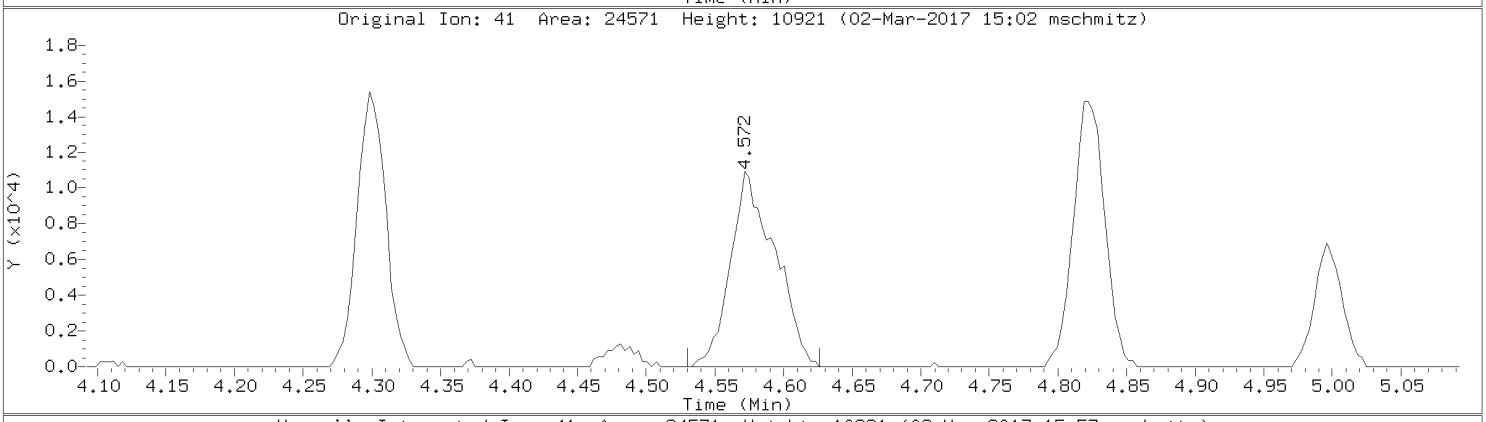


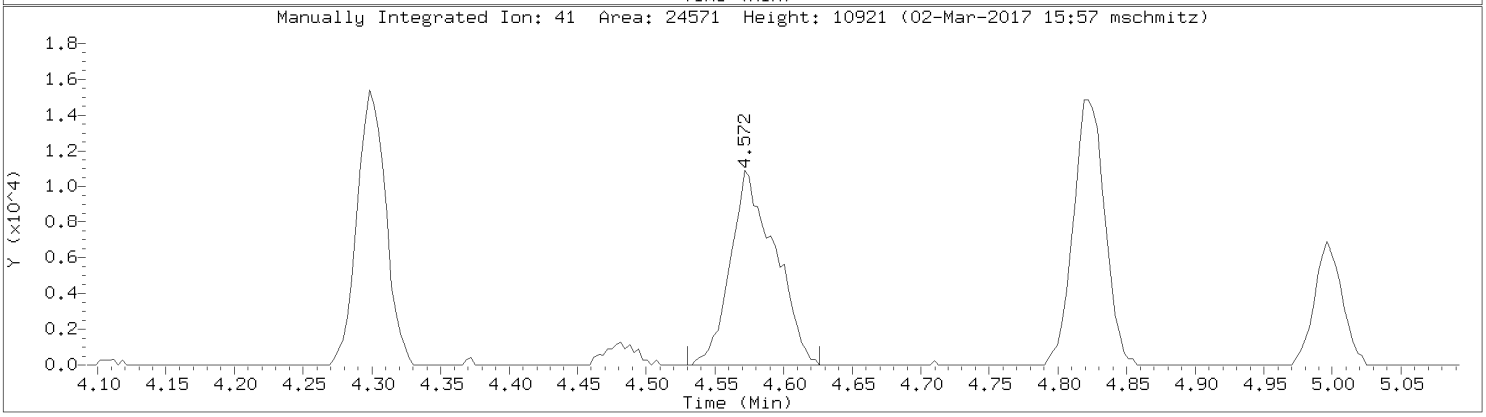
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: n-Hexane
CAS Number: 110-54-3

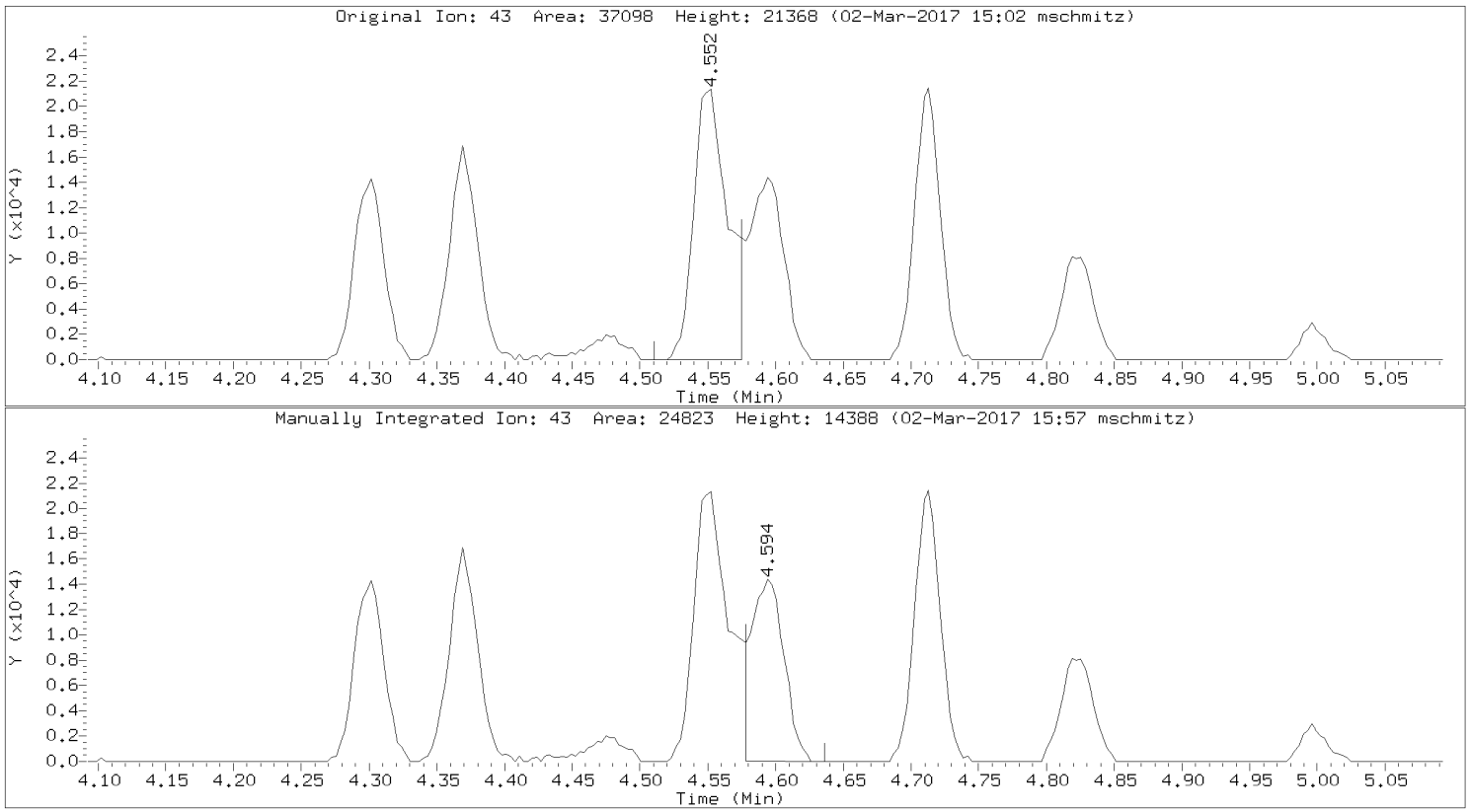






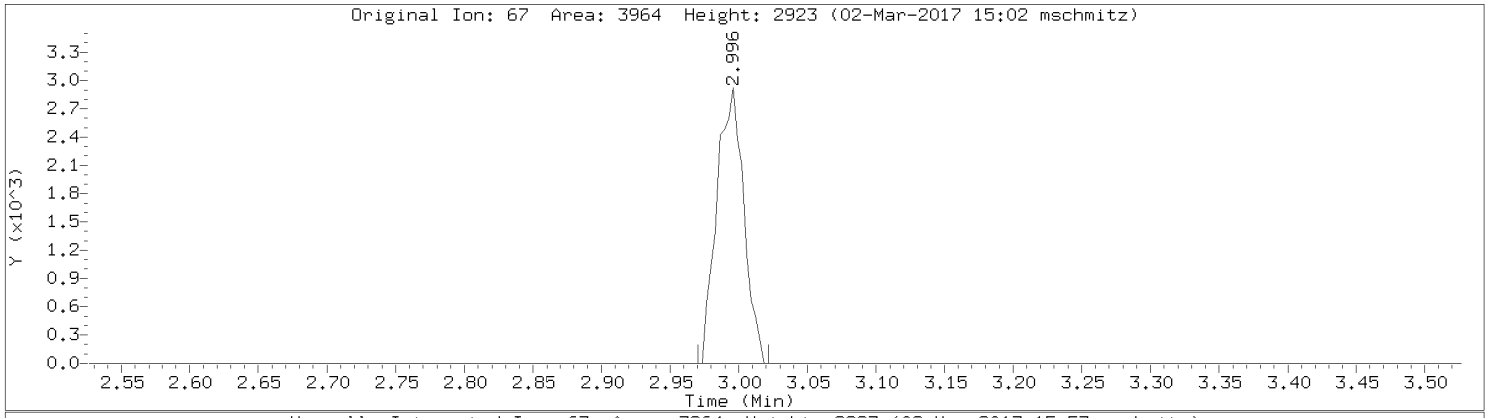


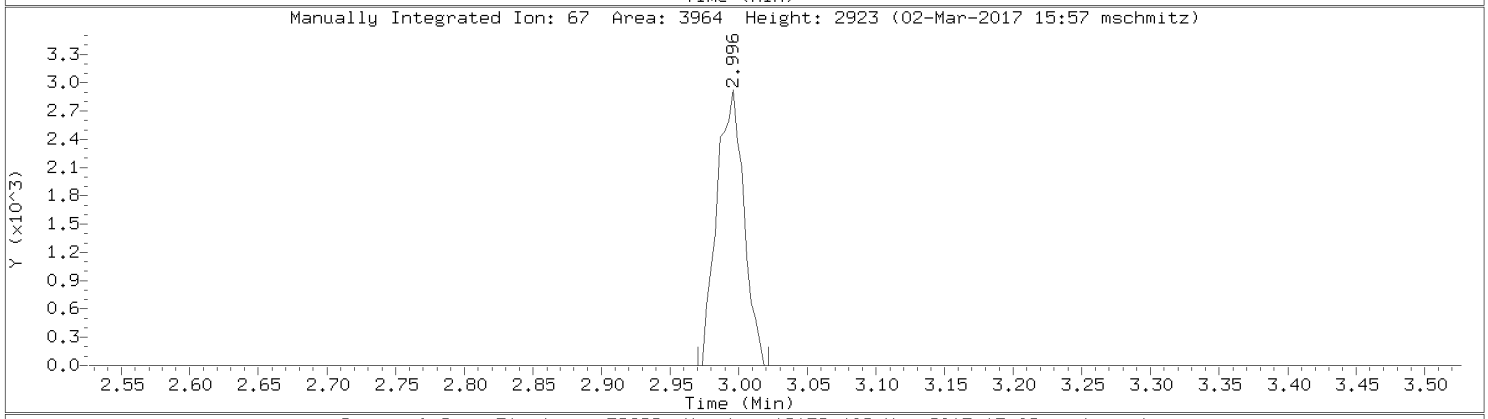
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

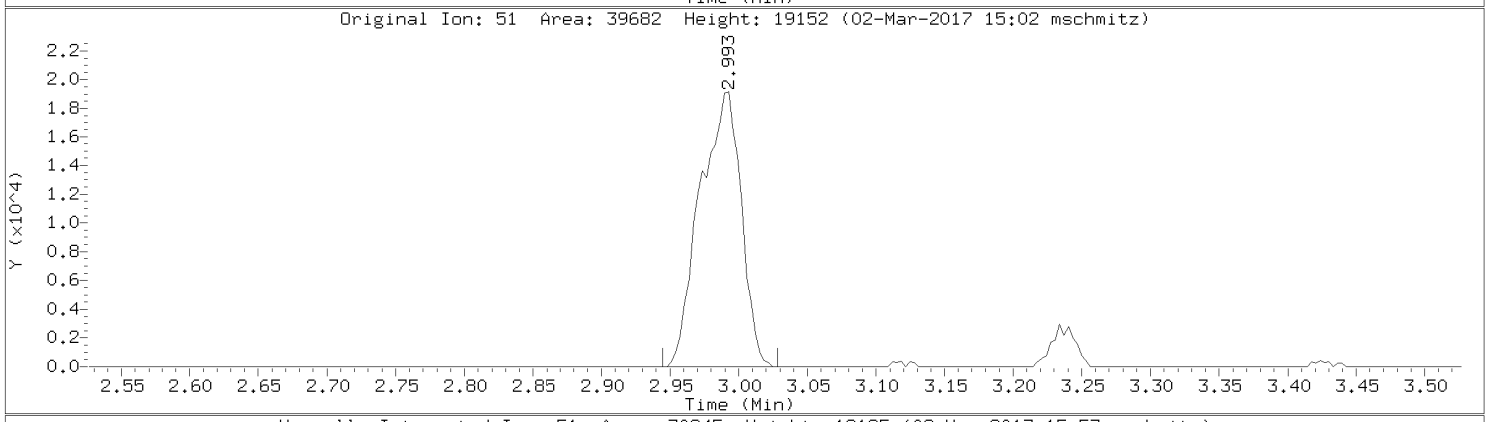


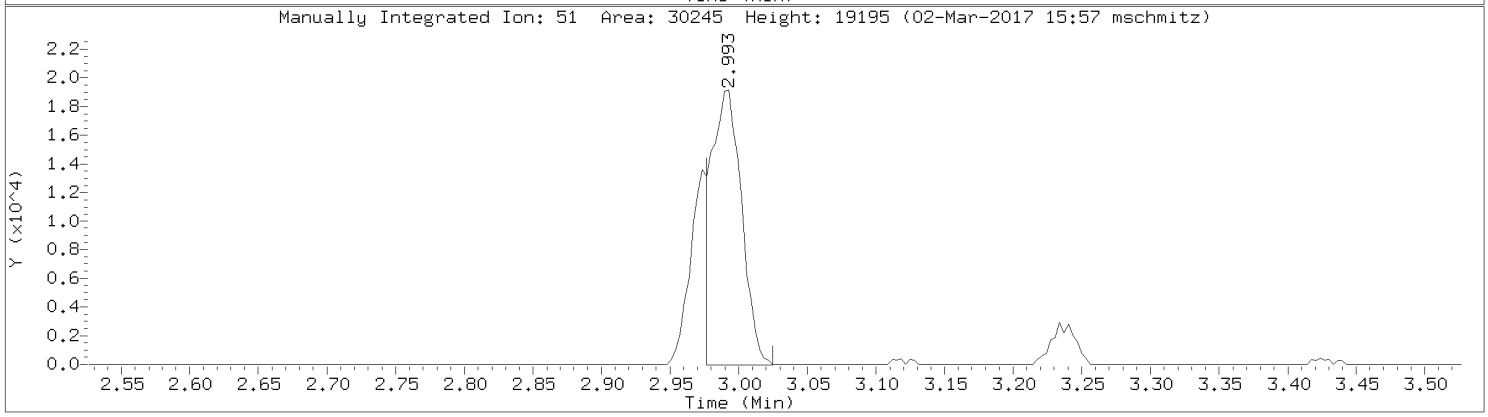
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

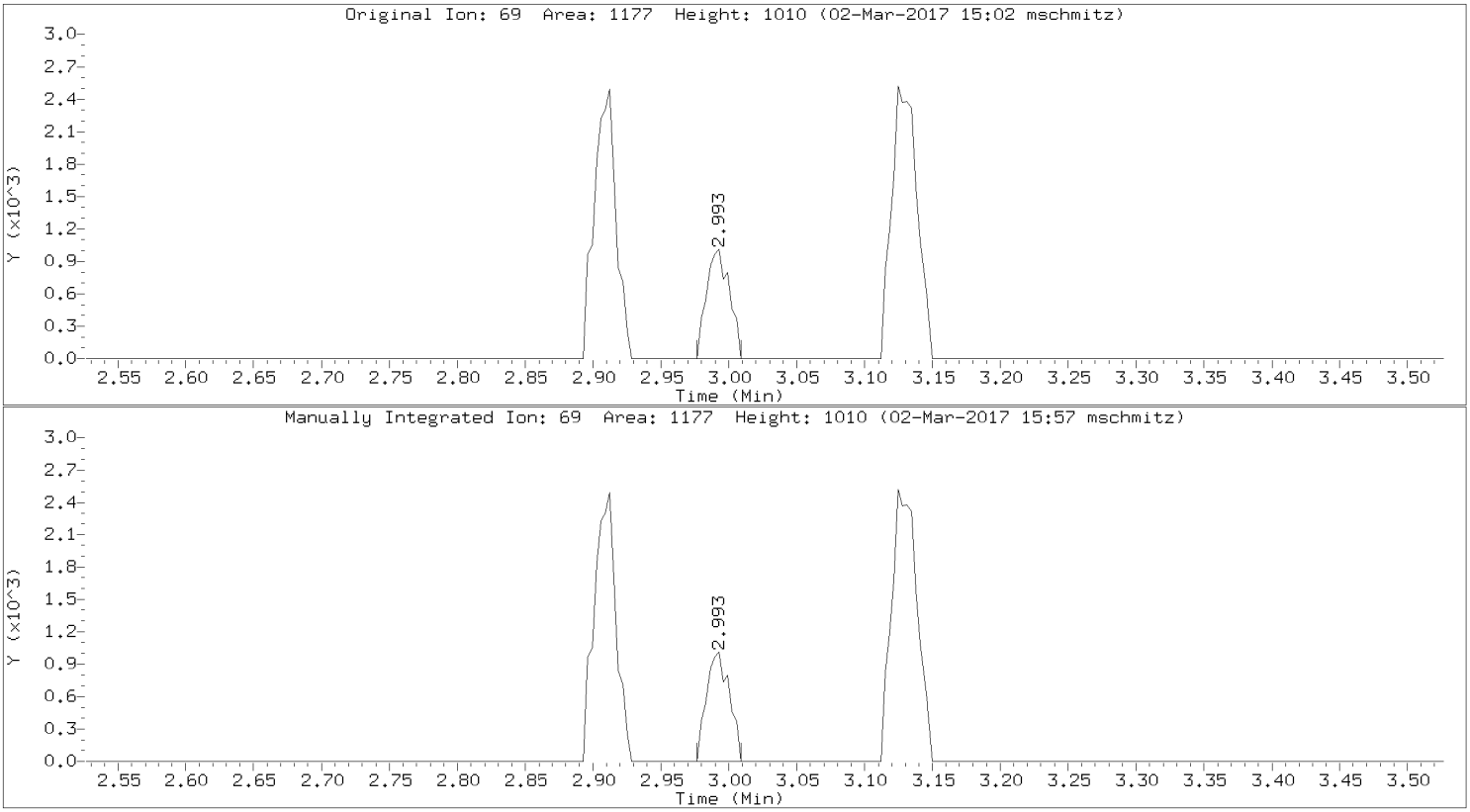






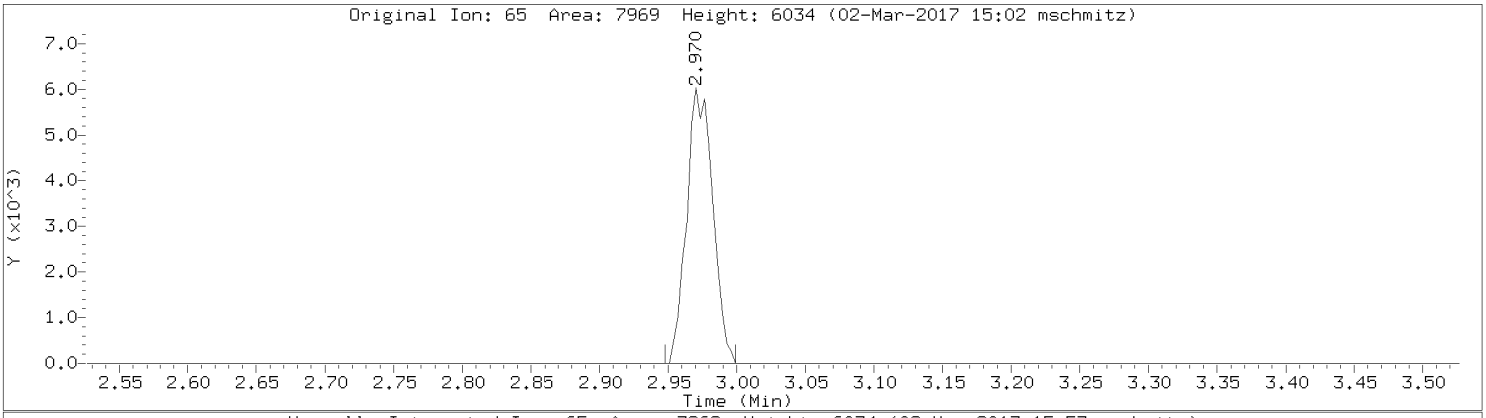


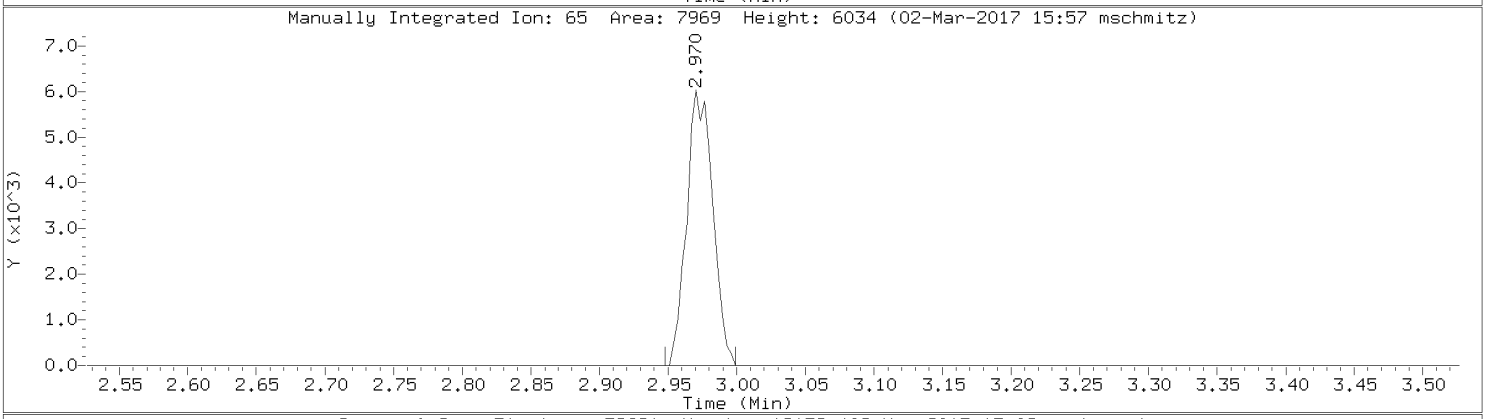
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

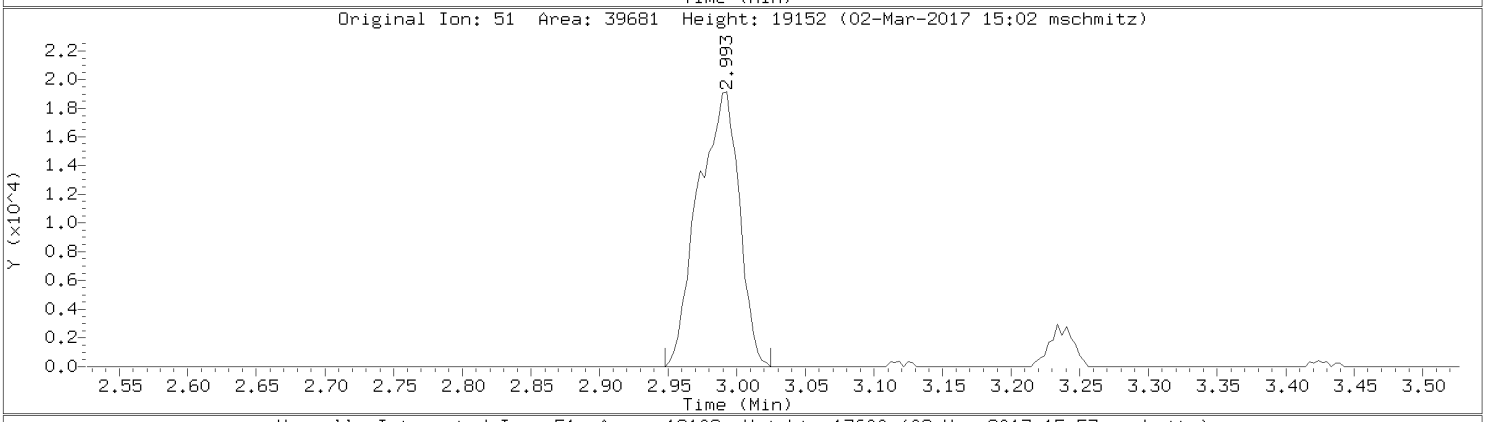


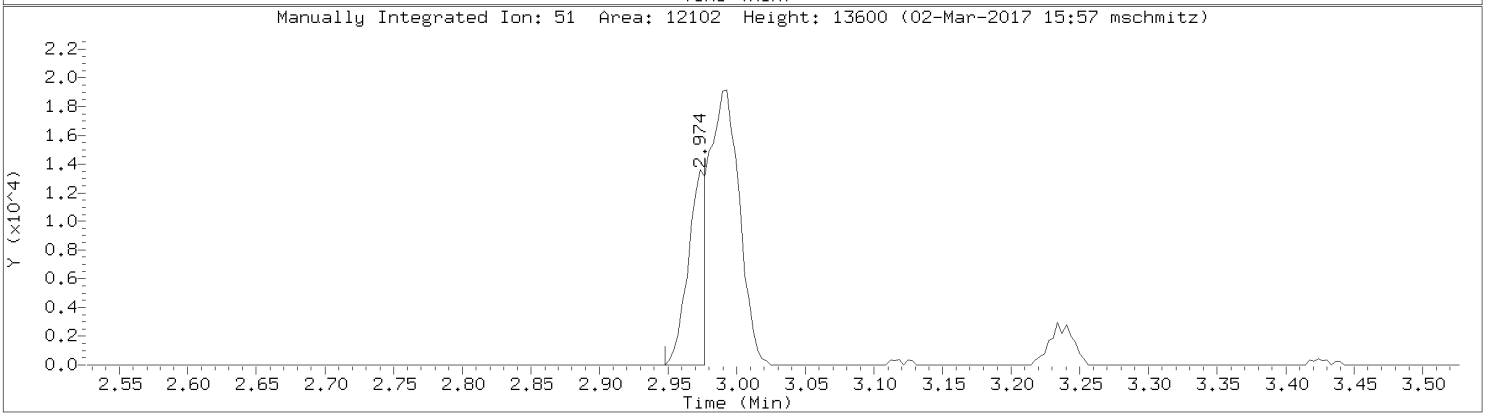
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

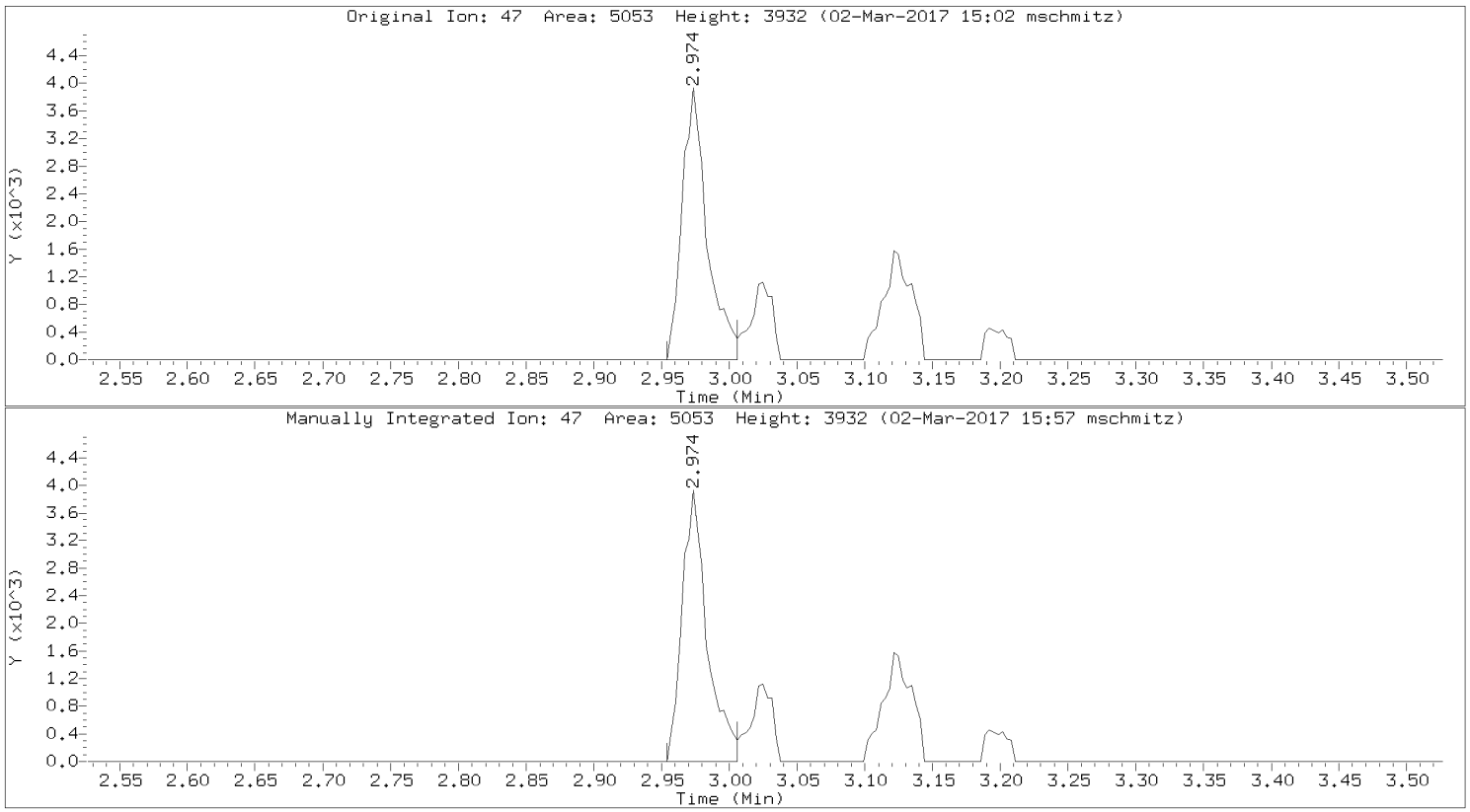






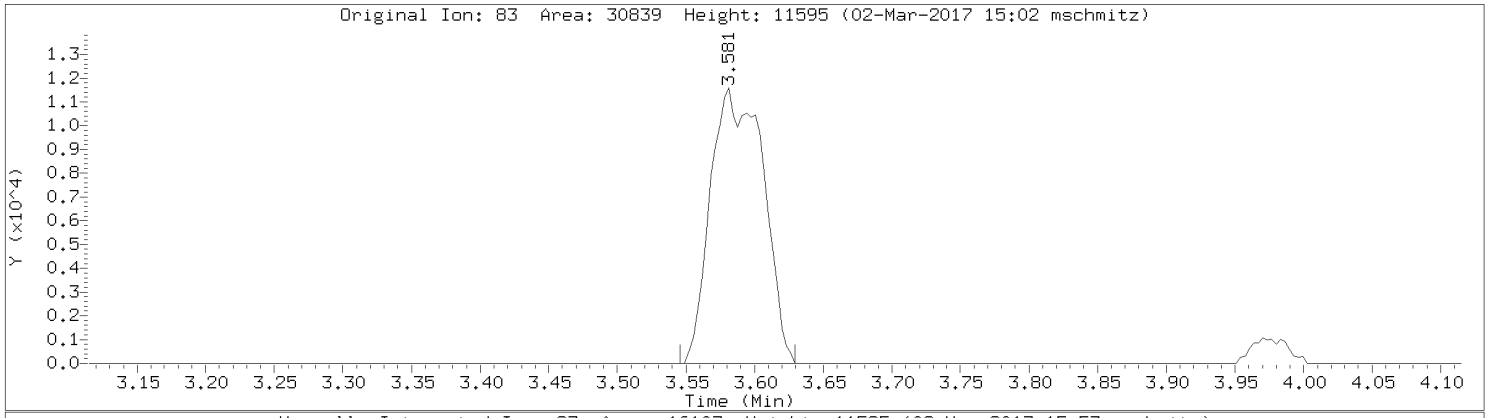


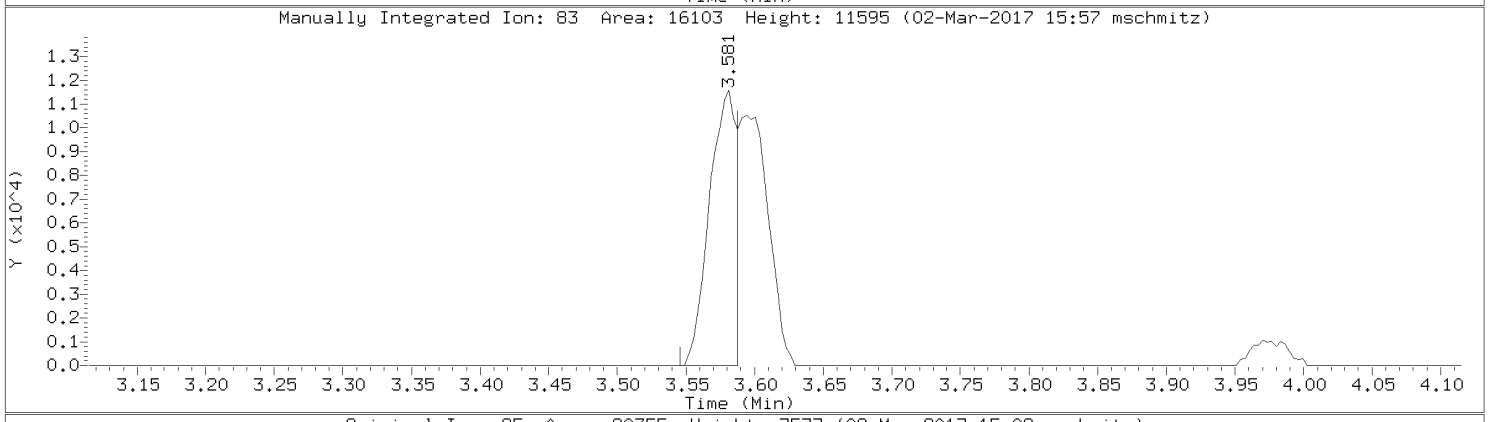
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

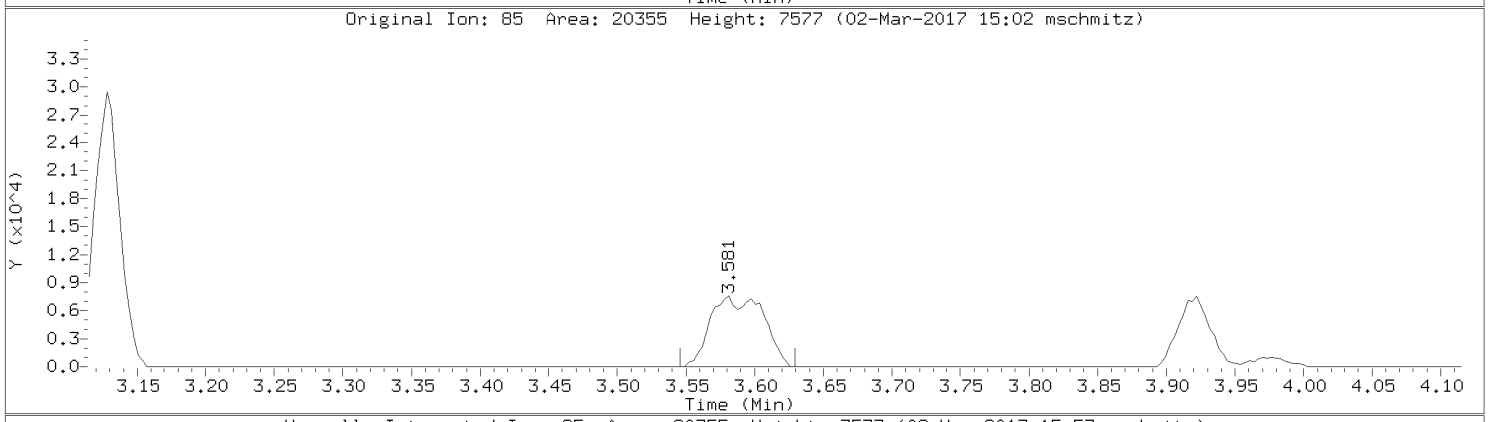


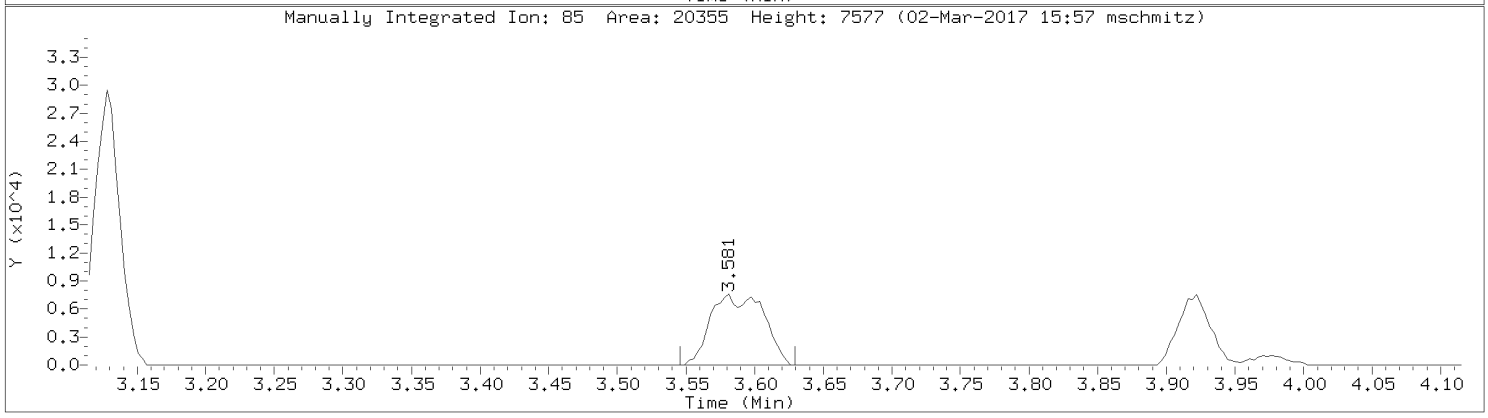
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4

Compound: Freon 123
CAS Number: 306-83-2

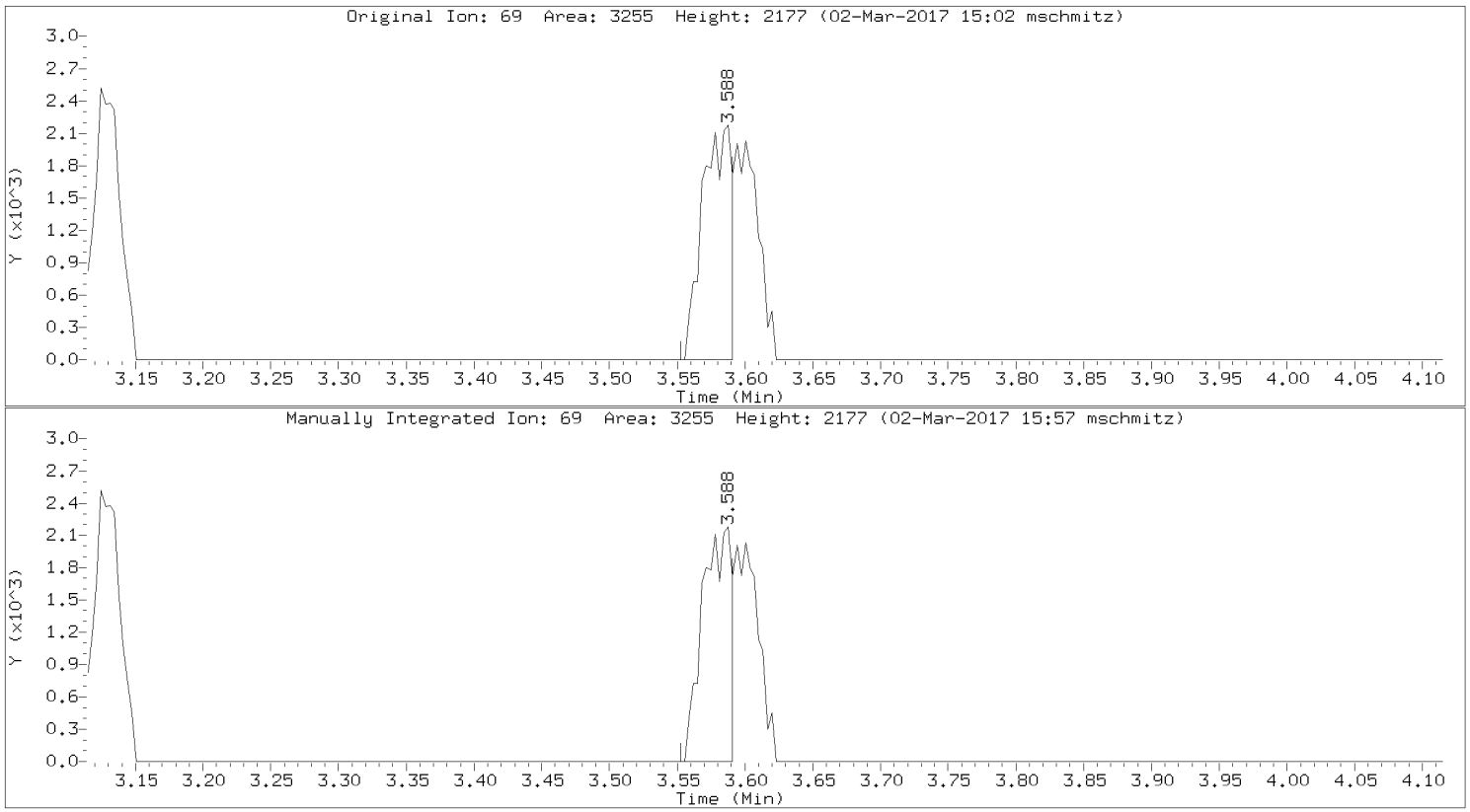








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06112.D
Injection Date: 02-MAR-2017 12:43
Instrument: 10airB.i
Lab Sample ID: cal4



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Lab Smp Id: cal5
Inj Date : 02-MAR-2017 13:10
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:00 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 12:43 Cal File: 06112.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.948	2.948	(0.525)	104607	10.0000	10.0
2	1,1-Difluoroethane	65	3.018	3.018	(0.538)	85570	10.0000	10.3(Q)
3	Chlorodifluoromethane	67	3.025	3.025	(0.539)	41204	10.0000	10.4(Q)
4	Propylene	41	3.031	3.031	(0.540)	98681	10.0000	9.40
5	Dichlorodifluoromethane	85	3.063	3.063	(0.546)	413909	10.0000	10.3(H)
6	Chloromethane	50	3.160	3.160	(0.563)	162140	10.0000	9.98
7	Dichlorotetrafluoroethane	85	3.166	3.166	(0.564)	382615	10.0000	9.75
8	Vinyl chloride	62	3.234	3.234	(0.576)	144116	10.0000	10.3(H)
9	1,3-Butadiene	54	3.275	3.275	(0.584)	109011	10.0000	10.7
10	Bromomethane	94	3.411	3.411	(0.608)	131635	10.0000	10.1
11	Chloroethane	64	3.465	3.465	(0.617)	64288	10.0000	9.96
12	Ethanol	45	3.546	3.546	(0.632)	260378	50.0000	50.1
13	Vinyl Bromide	106	3.584	3.584	(0.639)	137400	10.0000	10.2
14	Isopentane	43	3.600	3.600	(0.641)	145015	10.0000	10.2
15	Freon 123	83	3.603	3.603	(0.642)	129273	10.0000	8.64(Q)
16	Trichlorofluoromethane	101	3.674	3.674	(0.655)	377905	10.0000	9.75(H)
17	Acrolein	56	3.684	3.684	(0.656)	138213	25.0000	26.2
18	Acetone	43	3.719	3.719	(0.663)	1048097	50.0000	46.7
19	Isopropyl Alcohol	45	3.767	3.767	(0.671)	1176801	50.0000	51.4
20	1,1-Dichloroethene	61	3.909	3.909	(0.696)	228240	10.0000	10.1
21	Acrylonitrile	53	3.928	3.928	(0.700)	281021	25.0000	27.1
22	Freon 113	101	3.947	3.947	(0.703)	290510	10.0000	9.92
23	Methyl Acetate	43	3.957	3.957	(0.705)	346874	10.0000	10.2

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.954	3.954	(0.704)	747480	25.0000	25.4
	25 Methylene chloride	49	4.005	4.005	(0.714)	771232	50.0000	48.7(H)
	26 Allyl Chloride	76	4.021	4.021	(0.716)	140726	25.0000	25.5(Q)
	27 Carbon Disulfide	76	4.124	4.124	(0.735)	331437	10.0000	11.1
	28 trans-1,2-dichloroethene	96	4.279	4.279	(0.762)	137571	10.0000	10.9
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	908222	25.0000	25.2
	30 Vinyl Acetate	43	4.388	4.388	(0.782)	385061	10.0000	10.2
	31 1,1-Dichloroethane	63	4.410	4.410	(0.786)	254235	10.0000	10.3
$	32 Hexane-d14(S)	66	4.488	4.488	(0.800)	441027	10.0000	9.80
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	65846	10.0000	9.85(Q)
	34 n-Hexane	57	4.584	4.584	(0.817)	232988	10.0000	10.3(Q)
	35 Di-isopropyl Ether	45	4.603	4.603	(0.820)	442149	10.0000	10.1
	36 Ethyl Acetate	43	4.716	4.716	(0.840)	320011	10.0000	11.0
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.841)	160633	10.0000	11.4
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	1228924	25.0000	26.8
	39 Chloroform	83	4.841	4.841	(0.863)	319627	10.0000	10.9
	40 Tetrahydrofuran	42	4.992	4.992	(0.889)	160630	10.0000	10.3
	41 1,1,1-Trichloroethane	97	5.230	5.230	(0.932)	362586	10.0000	10.5
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	268379	10.0000	10.3
	43 Benzene	78	5.465	5.465	(0.974)	478819	10.0000	10.5
	44 Carbon tetrachloride	117	5.488	5.488	(0.978)	385538	10.0000	11.2
	45 Cyclohexane	56	5.488	5.488	(0.978)	237050	10.0000	10.4
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	445708	10.0000	10.0
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1414114	10.0000	
	48 2,2,4-Trimethylpentane	57	5.771	5.771	(1.028)	1831044	25.0000	25.9
	49 Heptane	43	5.890	5.890	(1.049)	264868	10.0000	10.4
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	170677	10.0000	10.3
	51 Trichloroethene	130	5.986	5.986	(1.066)	242650	10.0000	10.2
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	165273	10.0000	10.7
	53 1,4-Dioxane	88	6.063	6.063	(1.080)	111424	10.0000	10.5
	54 Bromodichloromethane	83	6.086	6.086	(1.084)	364714	10.0000	10.8
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	132902	10.0000	10.3
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	938867	25.0000	27.0
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	285919	10.0000	10.1
	58 trans-1,3-Dichloropropene	75	6.983	6.983	(1.244)	268282	10.0000	10.3
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1247636	10.0000	9.86
	60 1,1,2-Trichloroethane	97	7.140	7.140	(1.272)	192251	10.0000	10.1
	61 Toluene	91	7.153	7.153	(1.274)	578322	10.0000	10.1
	62 Methyl Butyl Ketone	43	7.369	7.369	(0.852)	860819	25.0000	28.7
	63 n-Octane	43	7.581	7.581	(0.877)	361448	10.0000	11.1
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	385835	10.0000	10.3
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	332151	10.0000	10.8
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	332343	10.0000	10.1
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	951026	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	485132	10.0000	10.3
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	763091	10.0000	10.9
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1205274	20.0000	22.0
	71 n-Nonane	43	9.471	9.471	(1.096)	338293	10.0000	11.9
	72 Bromoform	173	9.478	9.478	(1.096)	367770	10.0000	10.2
	73 Styrene	104	9.507	9.507	(1.100)	465333	10.0000	10.0
	74 o-Xylene	91	9.581	9.581	(1.108)	605642	10.0000	10.8
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	349462	10.0000	11.4
	76 Isopropylbenzene	105	10.163	10.163	(1.176)	821922	10.0000	10.4
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	929423	10.0000	10.4

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	815307	10.0000	10.0
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	689551	10.0000	10.3
80	n-Decane	57	11.381	11.381	(2.028)	350331	10.0000	9.70
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	712051	10.0000	11.3
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	653414	10.0000	11.6
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	423299	10.0000	10.5
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	935378	10.0000	11.8
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	580192	10.0000	11.1(M)
86	Benzyl Chloride	91	11.864	11.864	(1.372)	427013	10.0000	9.97
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	419240	10.0000	11.3
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	793111	10.0000	10.5
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	651233	10.0000	11.7
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.420)	395633	10.0000	10.1
91	N-Butylbenzene	91	12.462	12.462	(1.441)	612616	10.0000	10.6
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	154681	10.0000	10.2
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.624)	156379	10.0000	9.74
94	Naphthalene	128	14.169	14.169	(1.639)	369664	10.0000	9.64
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	183626	10.0000	11.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06113.D
Lab Smp Id: cal5
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

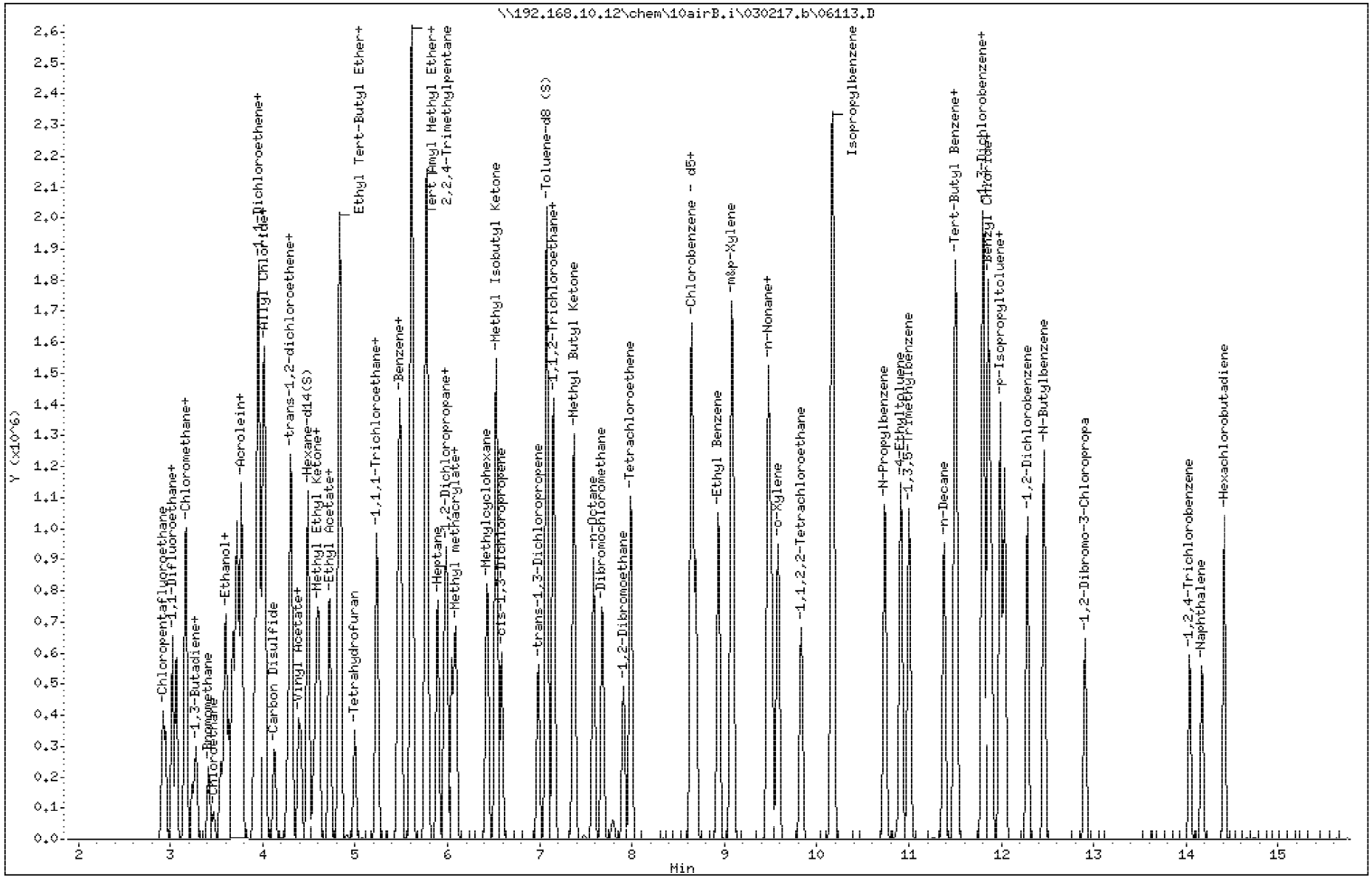
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1414114	0.00
67 Chlorobenzene - d	951026	570616	1331436	951026	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

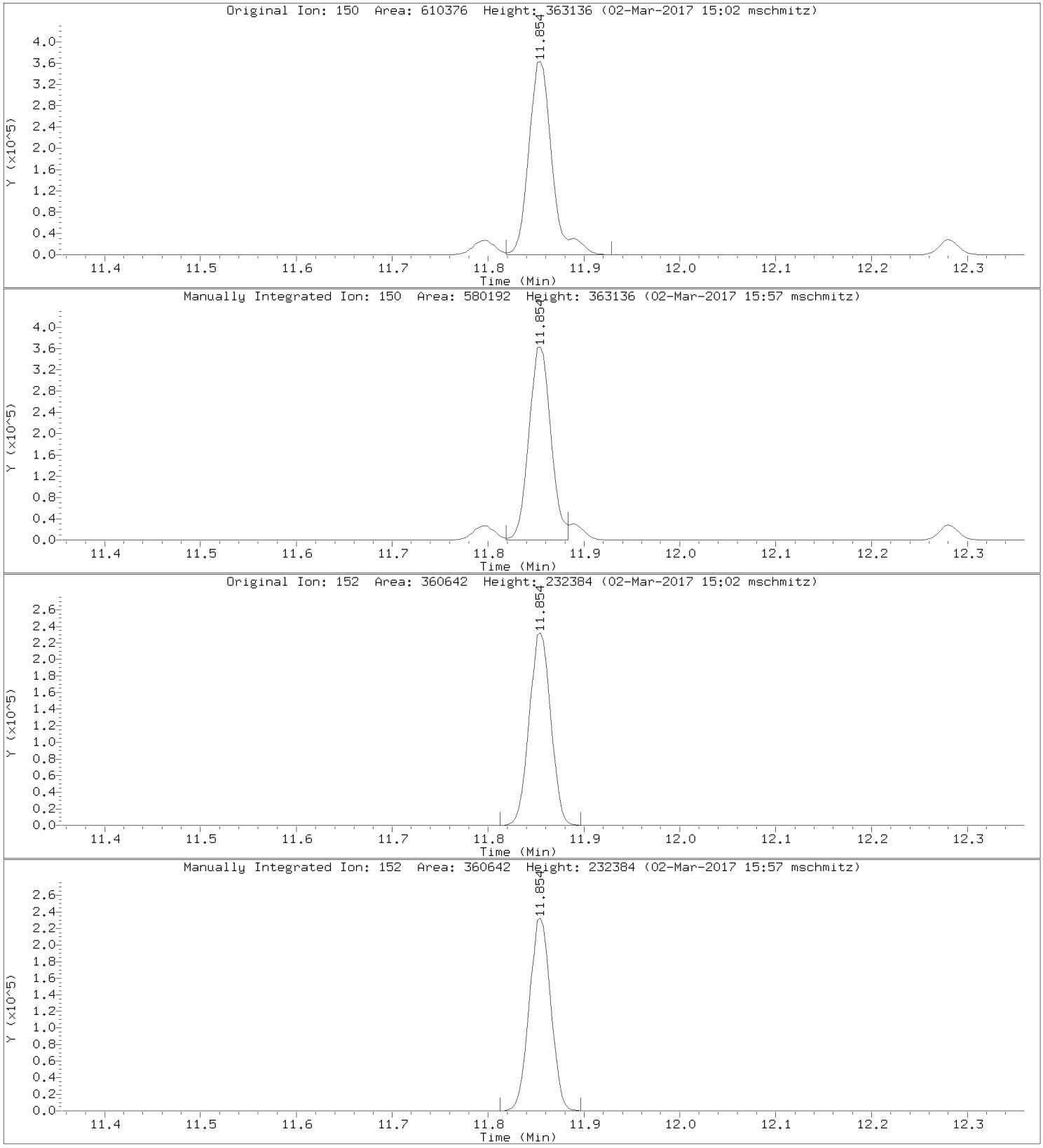
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Date : 02-MAR-2017 13:10
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030217.b/06113.D
Injection Date: 02-MAR-2017 13:10
Instrument: 10airB.i
Lab Sample ID: cal5

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Lab Smp Id: cal6
Inj Date : 02-MAR-2017 13:39
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:01 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 13:10 Cal File: 06113.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.938	2.938	(0.523)	140241	20.0000	13.1
2	1,1-Difluoroethane	65	3.021	3.021	(0.538)	168746	20.0000	19.9
3	Chlorodifluoromethane	67	3.021	3.021	(0.538)	80199	20.0000	19.8
4	Propylene	41	3.025	3.025	(0.538)	197124	20.0000	19.0
5	Dichlorodifluoromethane	85	3.060	3.060	(0.545)	810812	20.0000	19.9
6	Chloromethane	50	3.160	3.160	(0.562)	318845	20.0000	19.2
7	Dichlorotetrafluoroethane	85	3.169	3.169	(0.564)	761624	20.0000	19.0
8	Vinyl chloride	62	3.240	3.240	(0.577)	284977	20.0000	19.9(H)
9	1,3-Butadiene	54	3.282	3.282	(0.584)	213076	20.0000	20.4
10	Bromomethane	94	3.417	3.417	(0.608)	262284	20.0000	19.8
11	Chloroethane	64	3.472	3.472	(0.618)	131687	20.0000	20.0
12	Ethanol	45	3.555	3.555	(0.633)	539315	100.000	102
13	Vinyl Bromide	106	3.587	3.587	(0.638)	268301	20.0000	19.5
14	Isopentane	43	3.603	3.603	(0.641)	281297	20.0000	19.5
15	Freon 123	83	3.607	3.607	(0.642)	313230	20.0000	20.6
16	Trichlorofluoromethane	101	3.681	3.681	(0.655)	740590	20.0000	18.7(M)
17	Acrolein	56	3.690	3.690	(0.657)	268448	50.0000	48.9
18	Acetone	43	3.729	3.729	(0.664)	2020457	100.000	88.2
19	Isopropyl Alcohol	45	3.777	3.777	(0.672)	2219304	100.000	95.0
20	1,1-Dichloroethene	61	3.918	3.918	(0.697)	447186	20.0000	19.4
21	Acrylonitrile	53	3.938	3.938	(0.701)	531086	50.0000	50.2
22	Freon 113	101	3.954	3.954	(0.704)	541684	20.0000	18.1
23	Methyl Acetate	43	3.967	3.967	(0.706)	639348	20.0000	18.3

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.967	3.967	(0.706)	1378833	50.0000	45.9
	25 Methylene chloride	49	4.012	4.012	(0.714)	1441659	100.000	89.2(H)
	26 Allyl Chloride	76	4.025	4.025	(0.716)	270021	50.0000	49.5
	27 Carbon Disulfide	76	4.131	4.131	(0.735)	658435	20.0000	21.6
	28 trans-1,2-dichloroethene	96	4.285	4.285	(0.763)	264643	20.0000	20.5
	29 Methyl Tert Butyl Ether	73	4.311	4.311	(0.767)	1762335	50.0000	47.9
	30 Vinyl Acetate	43	4.398	4.398	(0.783)	772513	20.0000	19.8
	31 1,1-Dichloroethane	63	4.420	4.420	(0.787)	502791	20.0000	20.0
$	32 Hexane-d14(S)	66	4.494	4.494	(0.800)	465843	10.0000	10.1
	33 Methyl Ethyl Ketone	72	4.562	4.562	(0.812)	136332	20.0000	19.9(Q)
	34 n-Hexane	57	4.587	4.587	(0.816)	454662	20.0000	19.8(M)
	35 Di-isopropyl Ether	45	4.610	4.610	(0.820)	885656	20.0000	19.8
	36 Ethyl Acetate	43	4.722	4.722	(0.840)	596888	20.0000	20.2
	37 cis-1,2-Dichloroethene	96	4.732	4.732	(0.842)	294426	20.0000	20.4
	38 Ethyl Tert-Butyl Ether	59	4.835	4.835	(0.860)	2280106	50.0000	48.8
	39 Chloroform	83	4.851	4.851	(0.863)	596539	20.0000	20.0
	40 Tetrahydrofuran	42	4.999	4.999	(0.890)	327751	20.0000	20.5
	41 1,1,1-Trichloroethane	97	5.237	5.237	(0.932)	693039	20.0000	19.7
	42 1,2-Dichloroethane	62	5.243	5.243	(0.933)	507033	20.0000	19.0
	43 Benzene	78	5.471	5.471	(0.974)	926597	20.0000	19.9
	44 Carbon tetrachloride	117	5.491	5.491	(0.977)	728330	20.0000	20.7
	45 Cyclohexane	56	5.491	5.491	(0.977)	444479	20.0000	19.1
	46 Tert Amyl Methyl Ether	73	5.610	5.610	(0.998)	890854	20.0000	19.9
*	47 1,4-Difluorobenzene	114	5.619	5.619	(1.000)	1443091	10.0000	
	48 2,2,4-Trimethylpentane	57	5.777	5.777	(1.028)	3434763	50.0000	47.6
	49 Heptane	43	5.896	5.896	(1.049)	527590	20.0000	20.3
	50 1,2-Dichloropropane	63	5.973	5.973	(1.063)	338436	20.0000	20.1
	51 Trichloroethene	130	5.992	5.992	(1.066)	479589	20.0000	19.8
	52 Methyl methacrylate	69	6.050	6.050	(1.077)	335488	20.0000	21.3
	53 1,4-Dioxane	88	6.070	6.070	(1.080)	227042	20.0000	20.9
	54 Bromodichloromethane	83	6.092	6.092	(1.084)	709196	20.0000	20.6
	55 Methylcyclohexane	98	6.439	6.439	(1.146)	266242	20.0000	19.7
	56 Methyl Isobutyl Ketone	43	6.536	6.536	(1.163)	1773972	50.0000	50.0
	57 cis-1,3-Dichloropropene	75	6.590	6.590	(1.173)	572916	20.0000	19.7
	58 trans-1,3-Dichloropropene	75	6.989	6.989	(1.244)	540240	20.0000	19.8
$	59 Toluene-d8 (S)	98	7.082	7.082	(1.260)	1296141	10.0000	10.0
	60 1,1,2-Trichloroethane	97	7.150	7.150	(1.272)	374337	20.0000	19.3
	61 Toluene	91	7.160	7.160	(1.274)	1147560	20.0000	19.7
	62 Methyl Butyl Ketone	43	7.375	7.375	(0.853)	1667264	50.0000	53.9
	63 n-Octane	43	7.587	7.587	(0.877)	704727	20.0000	21.0
	64 Dibromochloromethane	129	7.684	7.684	(0.888)	768082	20.0000	19.9
	65 1,2-Dibromoethane	107	7.912	7.912	(0.915)	653542	20.0000	20.7
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	651668	20.0000	19.2
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	978826	10.0000	
	68 Chlorobenzene	112	8.690	8.690	(1.005)	970936	20.0000	20.0
	69 Ethyl Benzene	91	8.938	8.938	(1.033)	1505148	20.0000	20.9
	70 m&p-Xylene	91	9.085	9.085	(1.051)	2274387	40.0000	40.3
	71 n-Nonane	43	9.475	9.475	(1.096)	626476	20.0000	21.5
	72 Bromoform	173	9.484	9.484	(1.097)	705920	20.0000	19.8
	73 Styrene	104	9.510	9.510	(1.100)	918818	20.0000	20.0
	74 o-Xylene	91	9.584	9.584	(1.108)	1186565	20.0000	20.6
	75 1,1,2,2-Tetrachloroethane	83	9.831	9.831	(1.137)	688020	20.0000	21.7
	76 Isopropylbenzene	105	10.166	10.166	(1.175)	1606607	20.0000	19.7
	77 N-Propylbenzene	91	10.741	10.741	(1.242)	1826015	20.0000	19.8

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.915	10.915	(1.262)	1614385	20.0000	20.0
79	1,3,5-Trimethylbenzene	105	11.005	11.005	(1.273)	1370583	20.0000	19.9
80	n-Decane	57	11.381	11.381	(2.025)	729038	20.0000	19.5
81	Tert-Butyl Benzene	119	11.500	11.500	(1.330)	1377149	20.0000	21.2
82	1,2,4-Trimethylbenzene	105	11.516	11.516	(1.332)	1246916	20.0000	21.4
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	815126	20.0000	19.7
84	Sec- Butylbenzene	105	11.809	11.809	(1.365)	1735332	20.0000	21.3
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.371)	611804	10.0000	11.3(M)
86	Benzyl Chloride	91	11.867	11.867	(1.372)	897595	20.0000	20.0
87	1,4-Dichlorobenzene	146	11.892	11.892	(1.375)	828579	20.0000	21.8
88	p-Isopropyltoluene	119	11.992	11.992	(1.387)	1535893	20.0000	19.8
89	1,2,3-Trimethylbenzene	105	12.037	12.037	(1.392)	1243764	20.0000	21.7
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.420)	776749	20.0000	19.9
91	N-Butylbenzene	91	12.462	12.462	(1.441)	1214291	20.0000	20.4
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	319932	20.0000	20.3
93	1,2,4-Trichlorobenzene	180	14.040	14.040	(1.623)	358428	20.0000	20.3
94	Naphthalene	128	14.169	14.169	(1.638)	797177	20.0000	19.8
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	364513	20.0000	21.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06114.D
Lab Smp Id: cal6
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

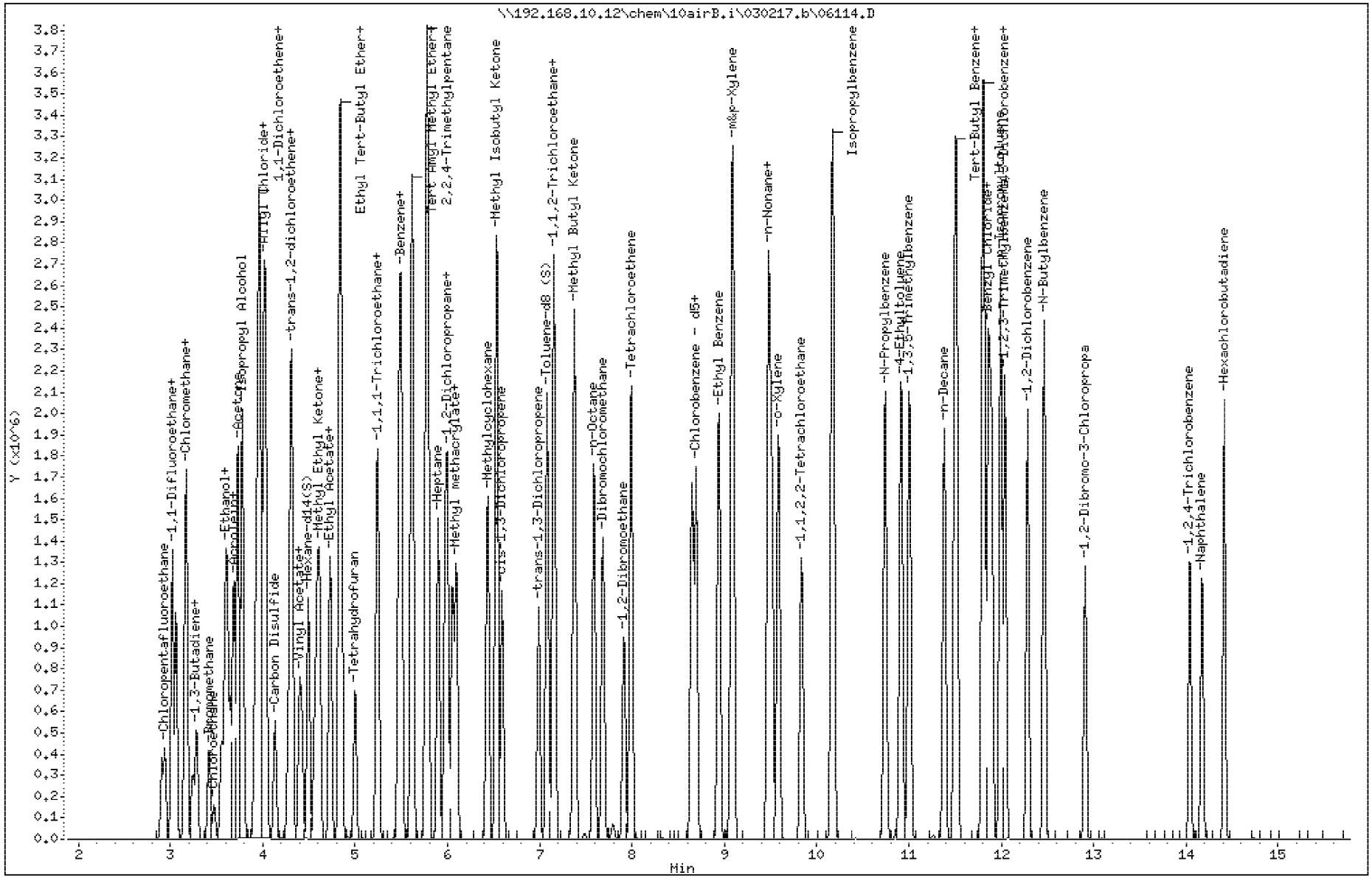
Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1443091	2.05
67 Chlorobenzene - d	951026	570616	1331436	978826	2.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.11
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

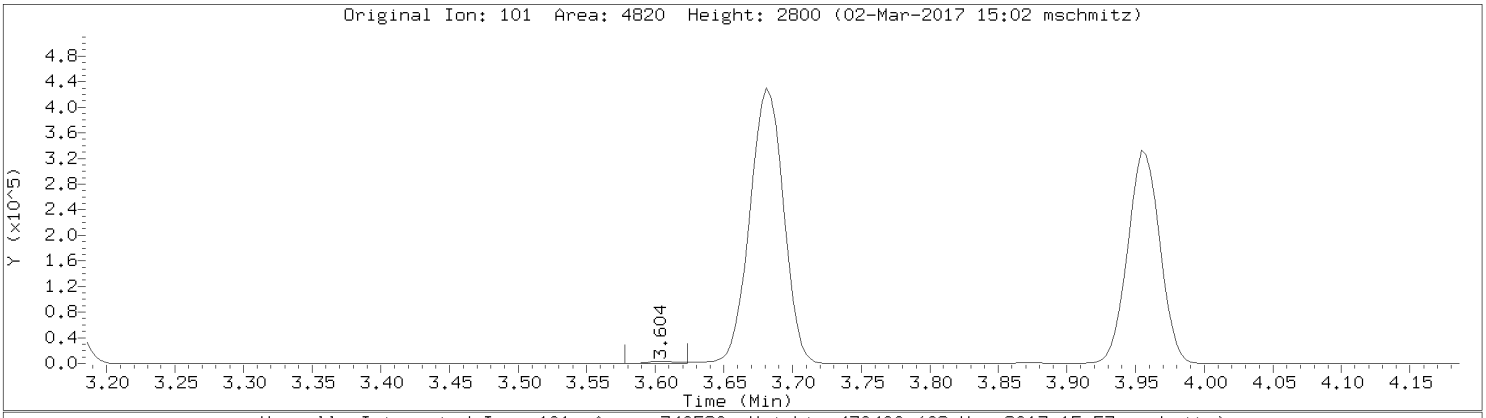
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

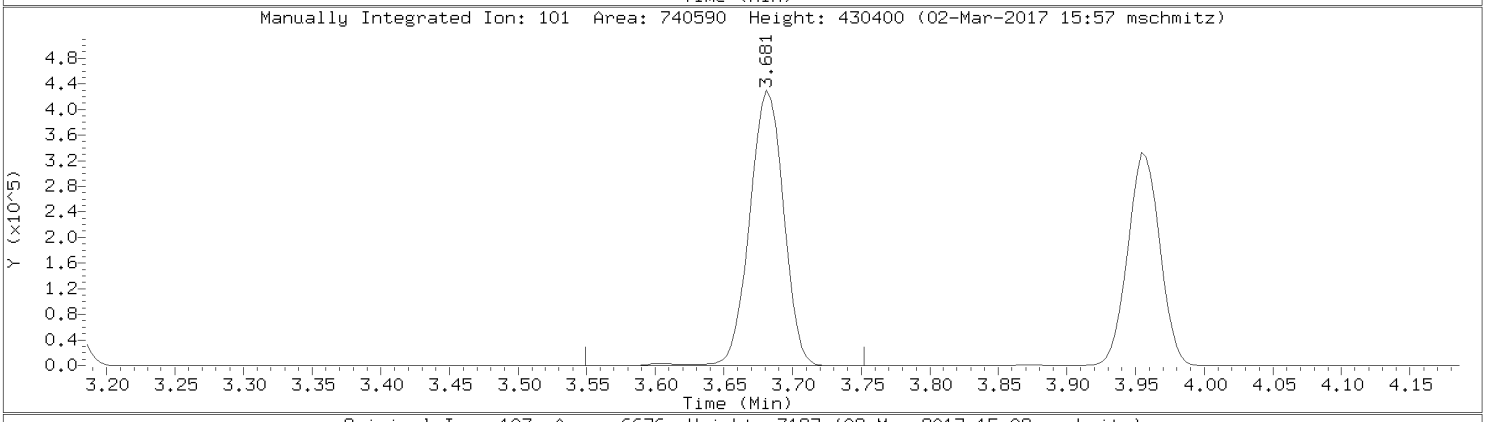
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Date : 02-MAR-2017 13:39
Client ID:
Instrument: 10airB.i
Sample Info:
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

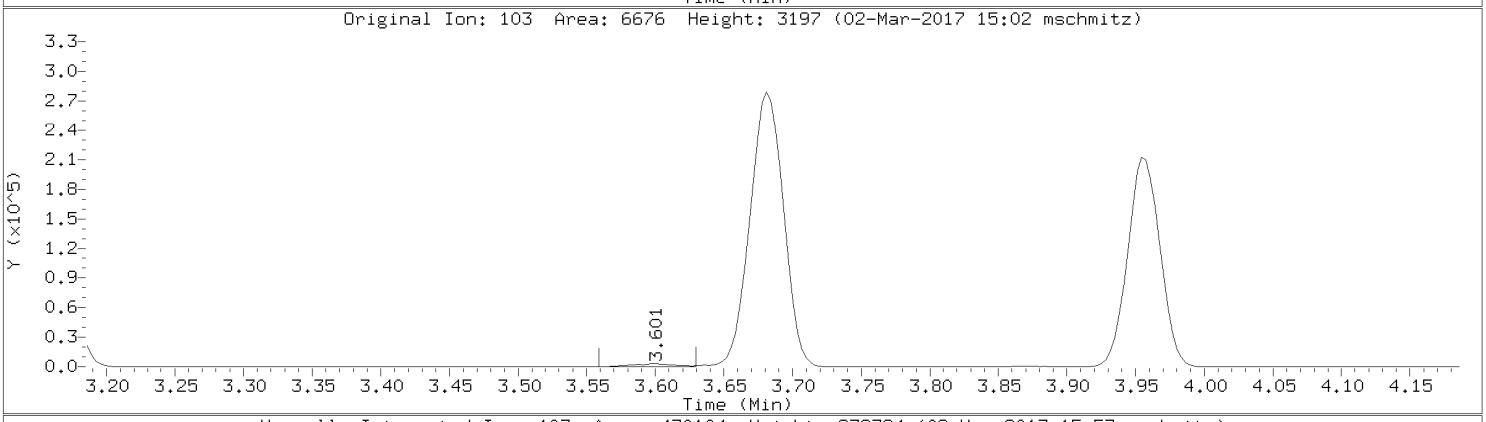


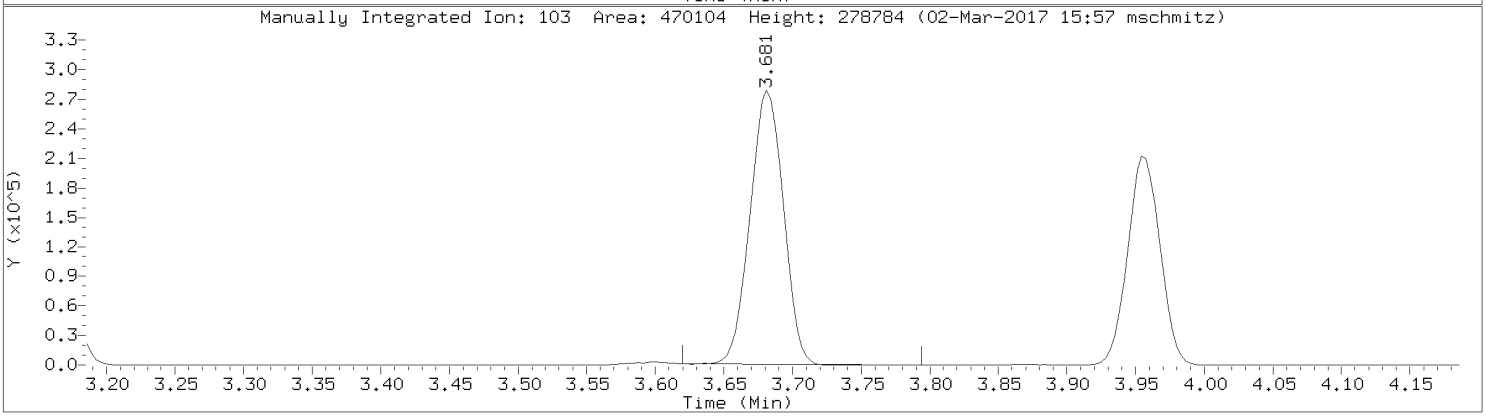
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

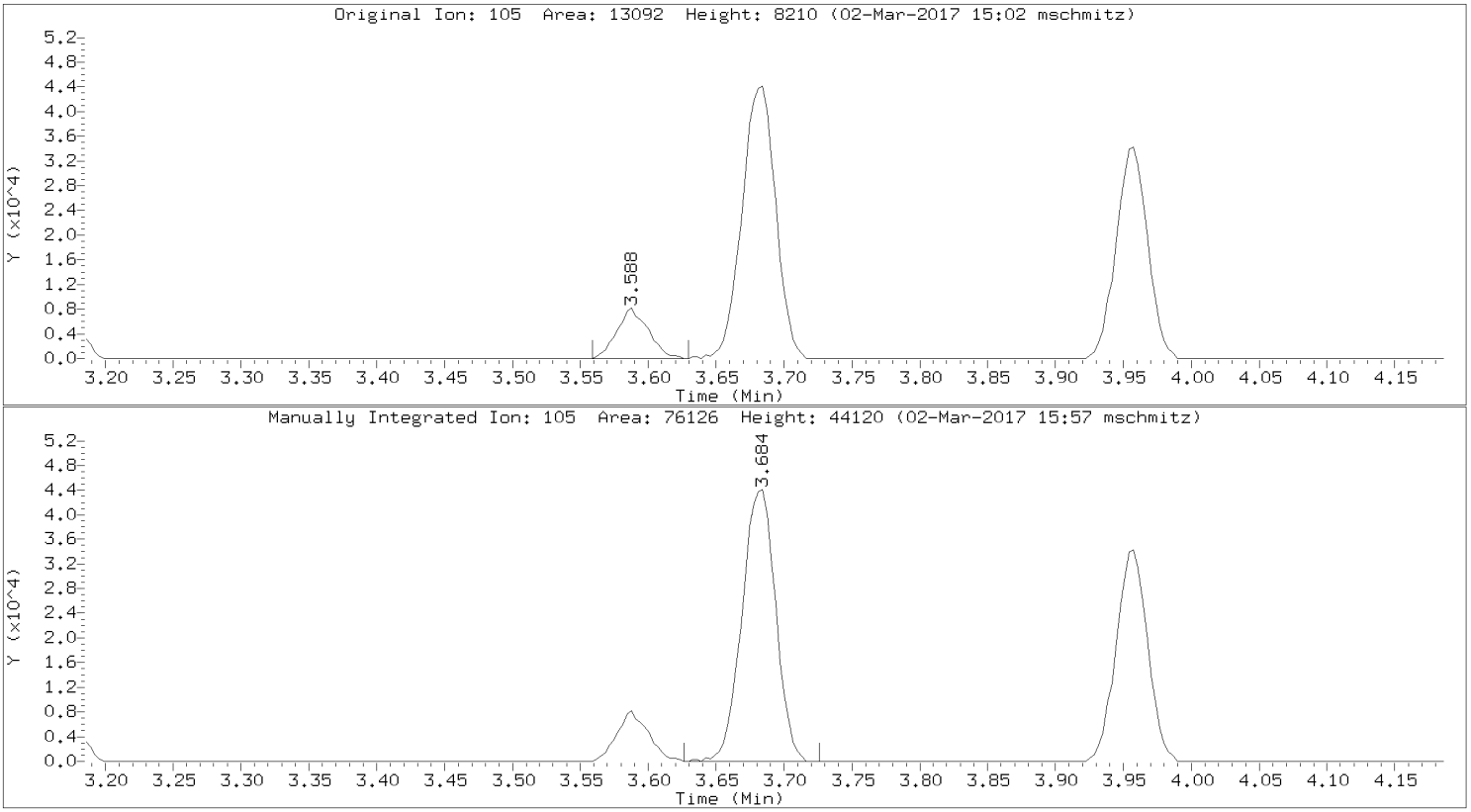






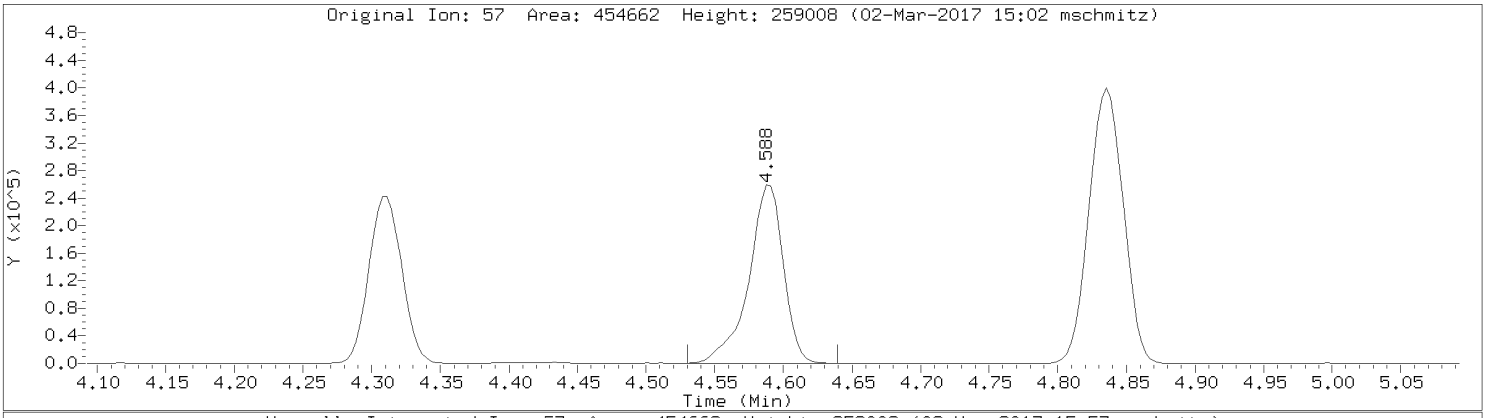


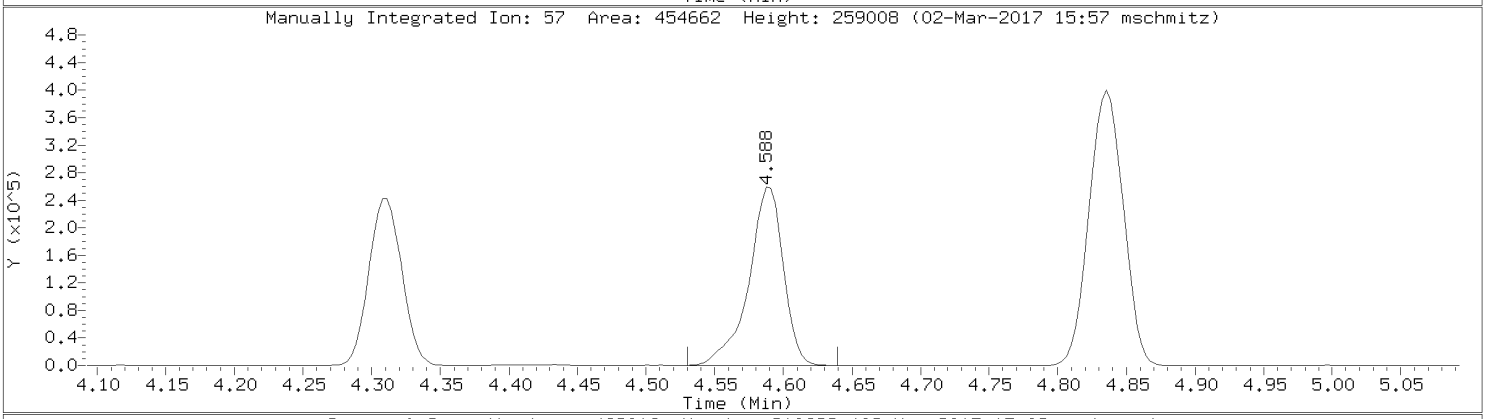
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

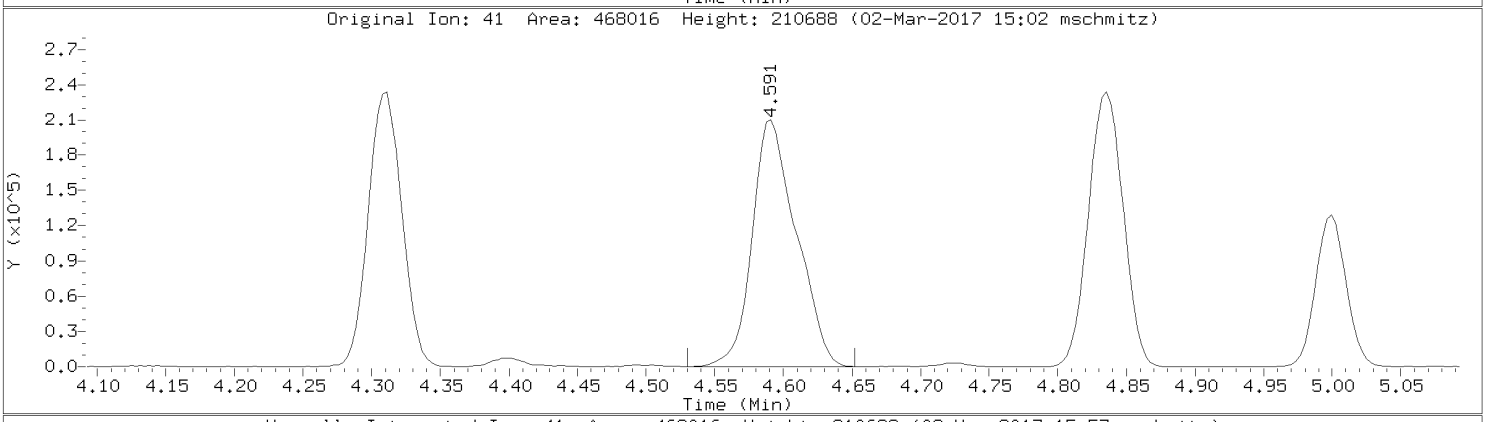


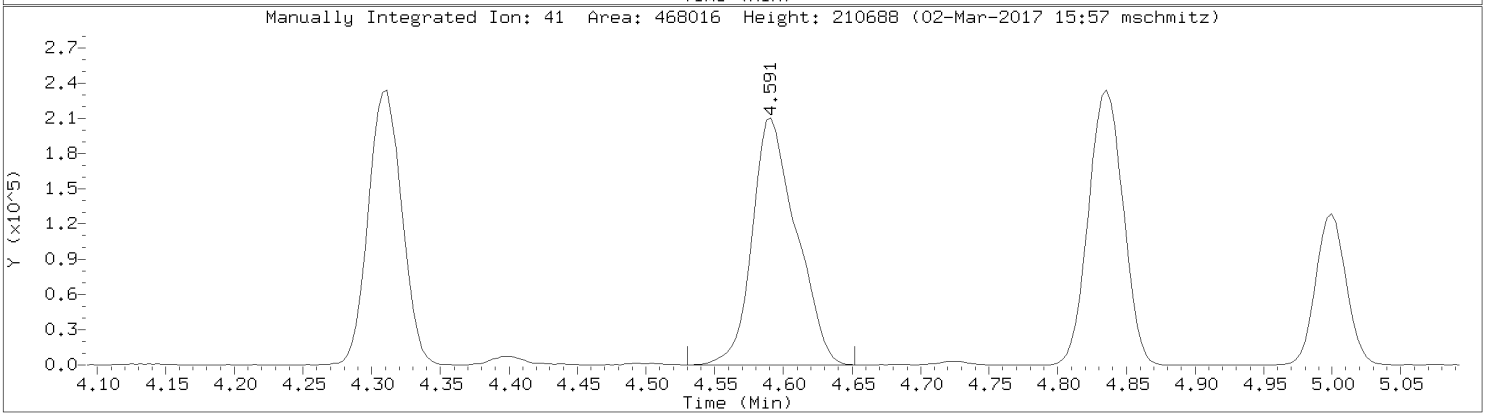
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: n-Hexane
CAS Number: 110-54-3

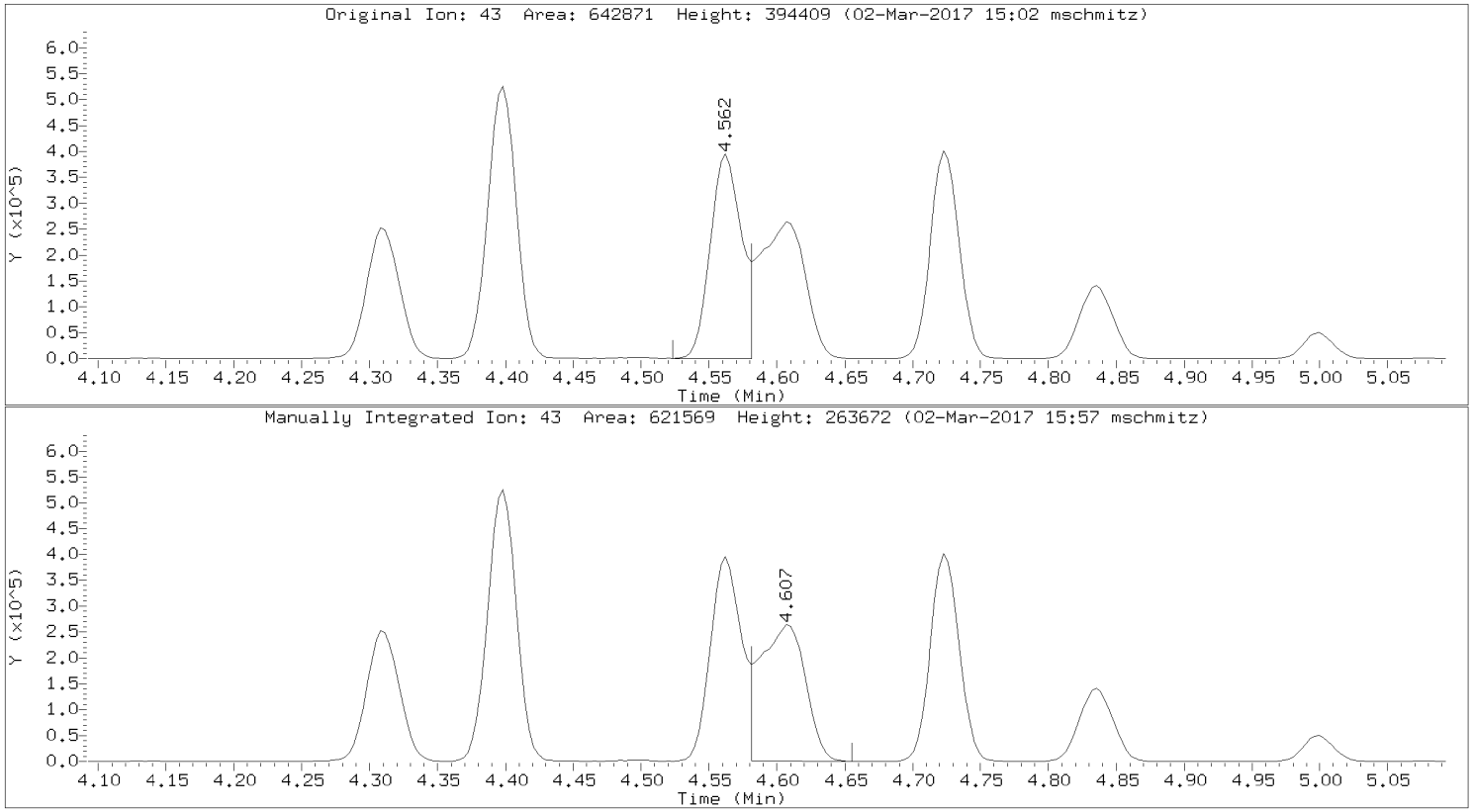






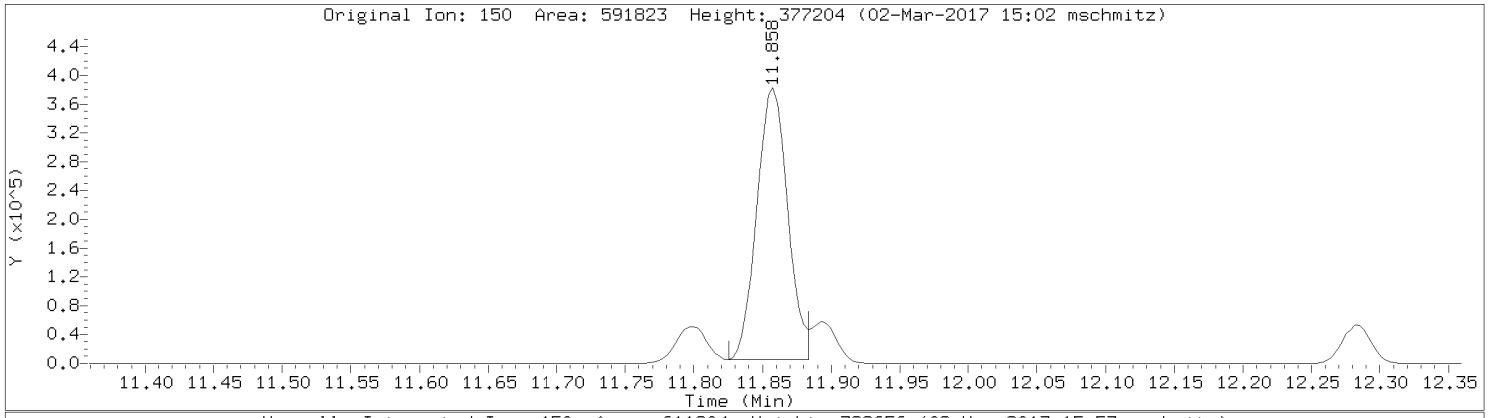


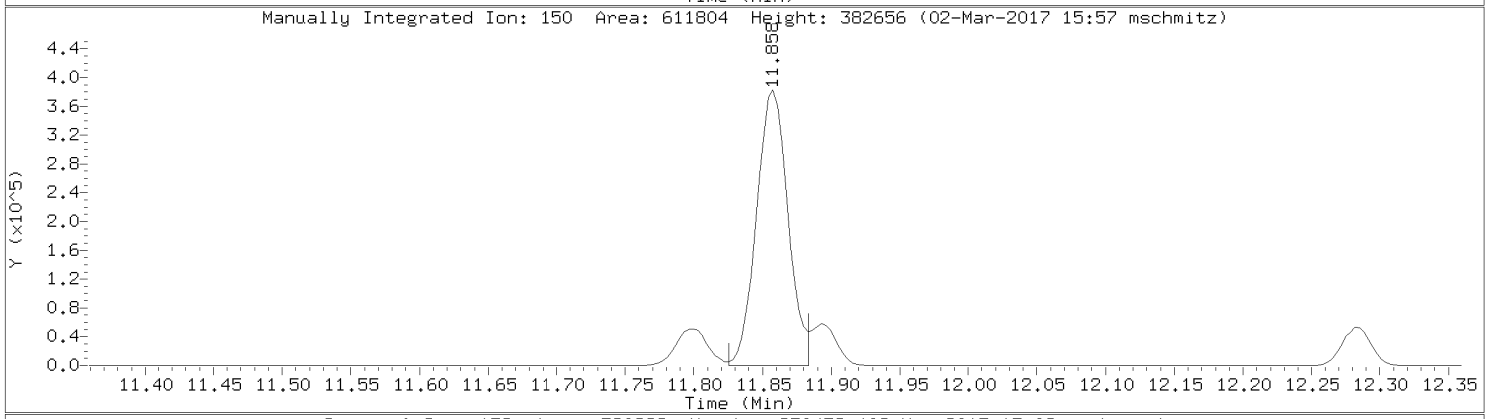
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

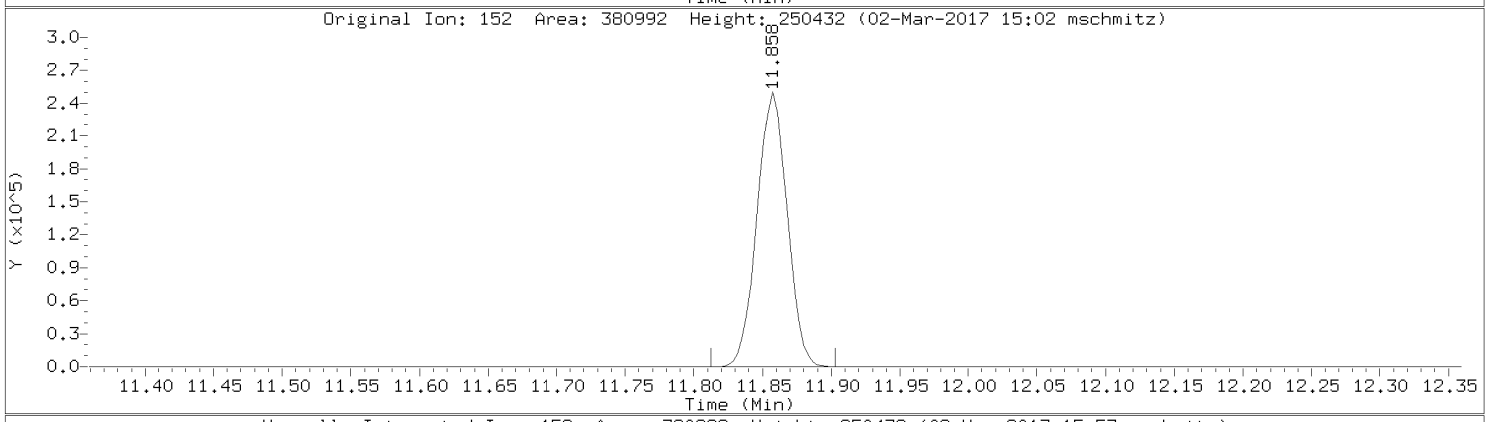


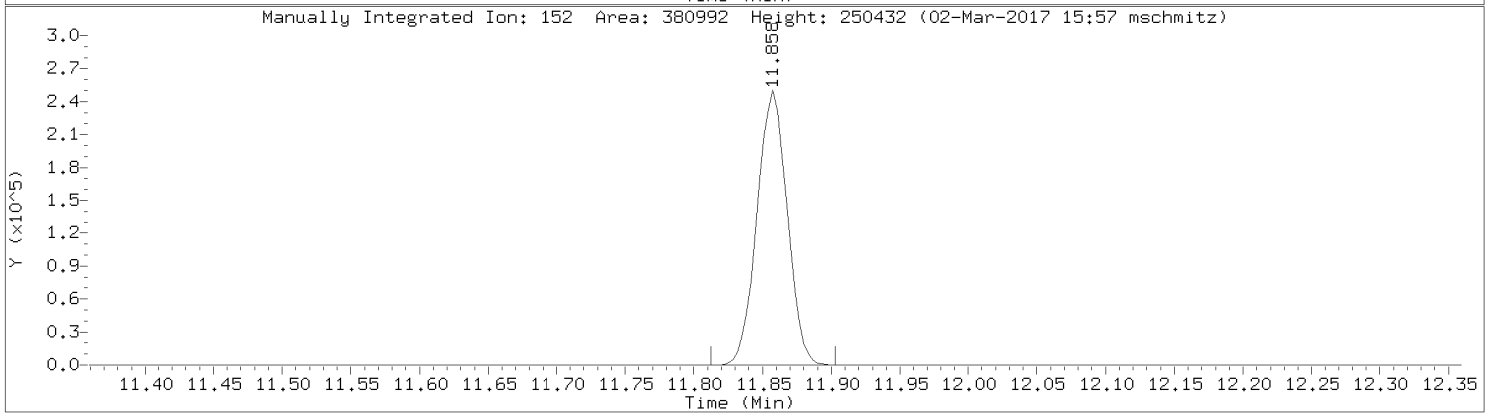
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06114.D
Injection Date: 02-MAR-2017 13:39
Instrument: 10airB.i
Lab Sample ID: cal6

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Lab Smp Id: cal7
Inj Date : 02-MAR-2017 14:08
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:01 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 13:39 Cal File: 06114.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.941	2.941	(0.523)	135575	30.0000	13.9
2	1,1-Difluoroethane	65	3.025	3.025	(0.538)	252667	30.0000	32.7(A)
3	Chlorodifluoromethane	67	3.025	3.025	(0.538)	117390	30.0000	31.8(A)
4	Propylene	41	3.028	3.028	(0.539)	287080	30.0000	30.8(A)
5	Dichlorodifluoromethane	85	3.063	3.063	(0.545)	1170979	30.0000	31.5(A)
6	Chloromethane	50	3.163	3.163	(0.563)	464037	30.0000	30.7(A)
7	Dichlorotetrafluoroethane	85	3.176	3.176	(0.565)	1102542	30.0000	30.2(A)
8	Vinyl chloride	62	3.243	3.243	(0.577)	420720	30.0000	32.2(AM)
9	1,3-Butadiene	54	3.285	3.285	(0.584)	318197	30.0000	33.4(A)
10	Bromomethane	94	3.423	3.423	(0.609)	382319	30.0000	31.6(A)
11	Chloroethane	64	3.478	3.478	(0.619)	190738	30.0000	31.8(A)
12	Ethanol	45	3.555	3.555	(0.632)	775578	150.000	160(A)
13	Vinyl Bromide	106	3.591	3.591	(0.639)	389041	30.0000	31.1
14	Isopentane	43	3.610	3.610	(0.642)	397743	30.0000	30.3(A)
15	Freon 123	83	3.613	3.613	(0.643)	415076	30.0000	30.0(A)
16	Trichlorofluoromethane	101	3.684	3.684	(0.655)	1064749	30.0000	29.5(H)
17	Acrolein	56	3.697	3.697	(0.657)	385253	75.0000	75.3(A)
18	Acetone	43	3.732	3.732	(0.664)	2817023	150.000	135
19	Isopropyl Alcohol	45	3.783	3.783	(0.673)	3112673	150.000	146
20	1,1-Dichloroethene	61	3.922	3.922	(0.698)	640702	30.0000	30.5(A)
21	Acrylonitrile	53	3.941	3.941	(0.701)	741537	75.0000	76.8(A)
22	Freon 113	101	3.960	3.960	(0.704)	753488	30.0000	27.7
23	Methyl Acetate	43	3.973	3.973	(0.707)	855023	30.0000	26.9

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.973	3.973	(0.707)	1867853	75.0000	68.2
	25 Methylene chloride	49	4.015	4.015	(0.714)	1936342	150.000	131(H)
	26 Allyl Chloride	76	4.031	4.031	(0.717)	360233	75.0000	75.2(A)
	27 Carbon Disulfide	76	4.137	4.137	(0.736)	916812	30.0000	33.0(A)
	28 trans-1,2-dichloroethene	96	4.285	4.285	(0.762)	368372	30.0000	31.3(A)
	29 Methyl Tert Butyl Ether	73	4.314	4.314	(0.767)	2364085	75.0000	70.4
	30 Vinyl Acetate	43	4.401	4.401	(0.783)	1072670	30.0000	30.1(A)
	31 1,1-Dichloroethane	63	4.423	4.423	(0.787)	705229	30.0000	30.7(A)
$	32 Hexane-d14(S)	66	4.497	4.497	(0.800)	441746	10.0000	10.5
	33 Methyl Ethyl Ketone	72	4.565	4.565	(0.812)	188259	30.0000	30.1(AQ)
	34 n-Hexane	57	4.591	4.591	(0.816)	609296	30.0000	29.0(M)
	35 Di-isopropyl Ether	45	4.613	4.613	(0.820)	1197546	30.0000	29.4
	36 Ethyl Acetate	43	4.726	4.726	(0.840)	807452	30.0000	29.9
	37 cis-1,2-Dichloroethene	96	4.735	4.735	(0.842)	396164	30.0000	30.1(A)
	38 Ethyl Tert-Butyl Ether	59	4.838	4.838	(0.860)	2803101	75.0000	65.8
	39 Chloroform	83	4.854	4.854	(0.863)	772846	30.0000	28.3
	40 Tetrahydrofuran	42	5.002	5.002	(0.890)	457984	30.0000	31.4(A)
	41 1,1,1-Trichloroethane	97	5.240	5.240	(0.932)	959626	30.0000	29.9
	42 1,2-Dichloroethane	62	5.250	5.250	(0.934)	686322	30.0000	28.2
	43 Benzene	78	5.478	5.478	(0.974)	1244129	30.0000	29.3
	44 Carbon tetrachloride	117	5.494	5.494	(0.977)	984658	30.0000	30.7(A)
	45 Cyclohexane	56	5.497	5.497	(0.978)	581122	30.0000	27.3
	46 Tert Amyl Methyl Ether	73	5.613	5.613	(0.998)	1221003	30.0000	30.1(A)
*	47 1,4-Difluorobenzene	114	5.623	5.623	(1.000)	1316191	10.0000	
	48 2,2,4-Trimethylpentane	57	5.783	5.783	(1.029)	4427297	75.0000	67.3
	49 Heptane	43	5.899	5.899	(1.049)	731532	30.0000	30.8(A)
	50 1,2-Dichloropropane	63	5.973	5.973	(1.062)	464325	30.0000	30.2(A)
	51 Trichloroethene	130	5.996	5.996	(1.066)	657281	30.0000	29.7
	52 Methyl methacrylate	69	6.053	6.053	(1.077)	459040	30.0000	31.9(A)
	53 1,4-Dioxane	88	6.073	6.073	(1.080)	310720	30.0000	31.3(A)
	54 Bromodichloromethane	83	6.095	6.095	(1.084)	982419	30.0000	31.4(A)
	55 Methylcyclohexane	98	6.439	6.439	(1.145)	381479	30.0000	30.1(A)
	56 Methyl Isobutyl Ketone	43	6.539	6.539	(1.163)	2420724	75.0000	74.8
	57 cis-1,3-Dichloropropene	75	6.597	6.597	(1.173)	802416	30.0000	30.2(A)
	58 trans-1,3-Dichloropropene	75	6.992	6.992	(1.244)	767727	30.0000	30.1(A)
$	59 Toluene-d8 (S)	98	7.082	7.082	(1.260)	1240591	10.0000	10.5
	60 1,1,2-Trichloroethane	97	7.153	7.153	(1.272)	516107	30.0000	29.2
	61 Toluene	91	7.160	7.160	(1.273)	1527121	30.0000	28.7
	62 Methyl Butyl Ketone	43	7.378	7.378	(0.853)	2256388	75.0000	73.3
	63 n-Octane	43	7.590	7.590	(0.878)	965346	30.0000	29.0
	64 Dibromochloromethane	129	7.687	7.687	(0.889)	1094955	30.0000	28.4
	65 1,2-Dibromoethane	107	7.915	7.915	(0.915)	932546	30.0000	29.6
	66 Tetrachloroethene	166	7.989	7.989	(0.924)	904899	30.0000	26.7
*	67 Chlorobenzene - d5	117	8.648	8.648	(1.000)	974838	10.0000	
	68 Chlorobenzene	112	8.693	8.693	(1.005)	1410174	30.0000	29.2
	69 Ethyl Benzene	91	8.938	8.938	(1.033)	2168046	30.0000	30.2(A)
	70 m&p-Xylene	91	9.092	9.092	(1.051)	3183004	60.0000	56.6
	71 n-Nonane	43	9.478	9.478	(1.096)	847174	30.0000	29.2
	72 Bromoform	173	9.487	9.487	(1.097)	1008290	30.0000	30.1(A)
	73 Styrene	104	9.513	9.513	(1.100)	1314898	30.0000	30.0(A)
	74 o-Xylene	91	9.587	9.587	(1.109)	1705098	30.0000	29.8
	75 1,1,2,2-Tetrachloroethane	83	9.835	9.835	(1.137)	996936	30.0000	31.6(A)
	76 Isopropylbenzene	105	10.166	10.166	(1.175)	2302433	30.0000	28.4
	77 N-Propylbenzene	91	10.745	10.745	(1.242)	2624651	30.0000	28.6

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.918	10.918	(1.262)	2322755	30.0000	30.0(A)
79	1,3,5-Trimethylbenzene	105	11.005	11.005	(1.273)	1957096	30.0000	28.5
80	n-Decane	57	11.388	11.388	(2.025)	1038909	30.0000	30.4(A)
81	Tert-Butyl Benzene	119	11.503	11.503	(1.330)	1928094	30.0000	29.8
82	1,2,4-Trimethylbenzene	105	11.519	11.519	(1.332)	1735296	30.0000	30.0
83	1,3-Dichlorobenzene	146	11.799	11.799	(1.364)	1144352	30.0000	27.8
84	Sec- Butylbenzene	105	11.815	11.815	(1.366)	2402689	30.0000	29.6
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.857	11.857	(1.371)	598482	10.0000	11.1
86	Benzyl Chloride	91	11.873	11.873	(1.373)	1343950	30.0000	30.0
87	1,4-Dichlorobenzene	146	11.899	11.899	(1.376)	1203116	30.0000	31.7(A)
88	p-Isopropyltoluene	119	11.995	11.995	(1.387)	2198943	30.0000	28.4
89	1,2,3-Trimethylbenzene	105	12.040	12.040	(1.392)	1791106	30.0000	31.3(A)
90	1,2-Dichlorobenzene	146	12.285	12.285	(1.420)	1131959	30.0000	30.0(A)
91	N-Butylbenzene	91	12.465	12.465	(1.441)	1755538	30.0000	29.6
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	467876	30.0000	29.7
93	1,2,4-Trichlorobenzene	180	14.037	14.037	(1.623)	553071	30.0000	29.9
94	Naphthalene	128	14.169	14.169	(1.638)	1218782	30.0000	30.2(A)
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	510994	30.0000	30.2(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06115.D
Lab Smp Id: cal7
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

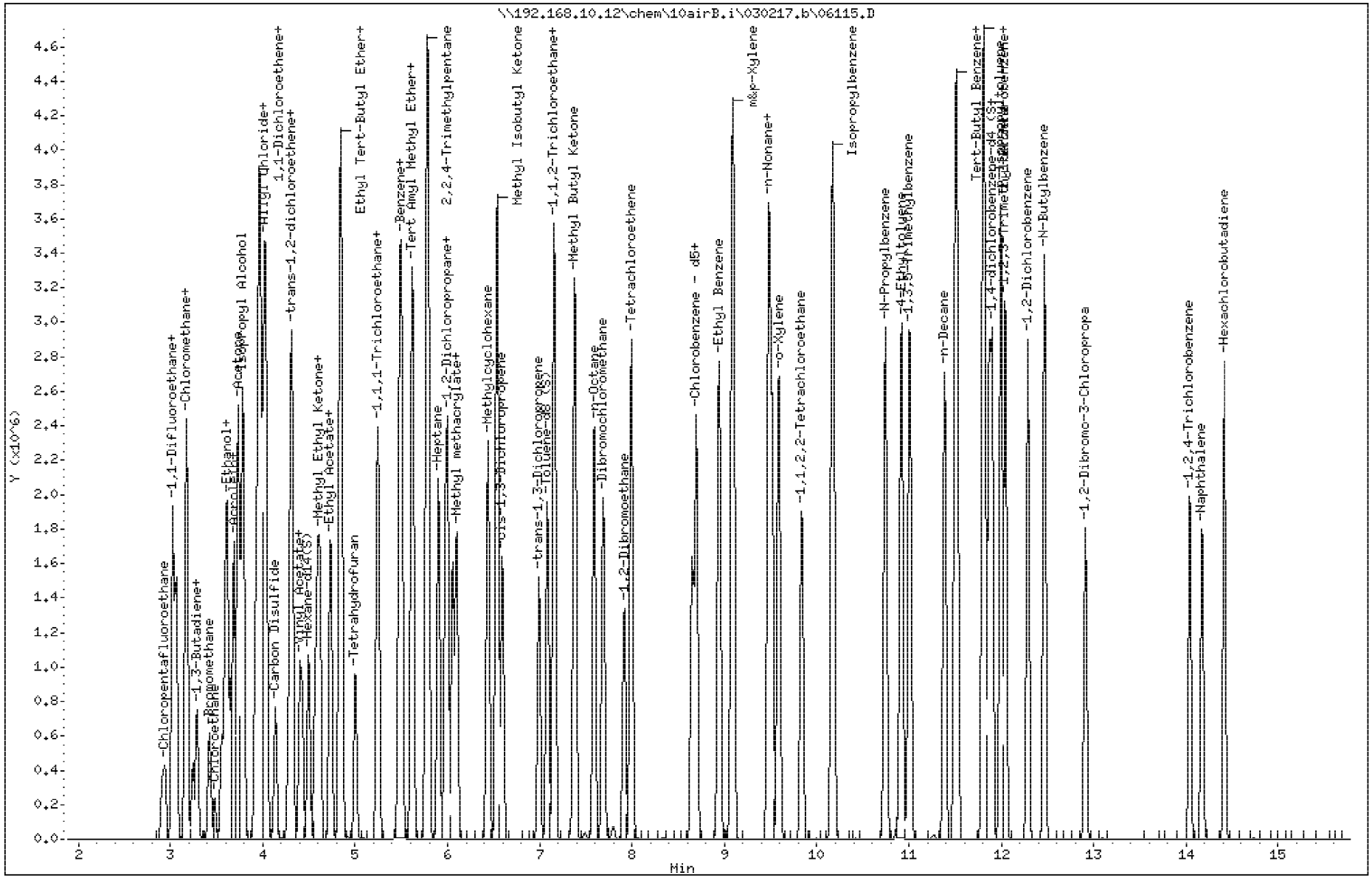
Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1316191	-6.92
67 Chlorobenzene - d	951026	570616	1331436	974838	2.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.62	0.17
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.04

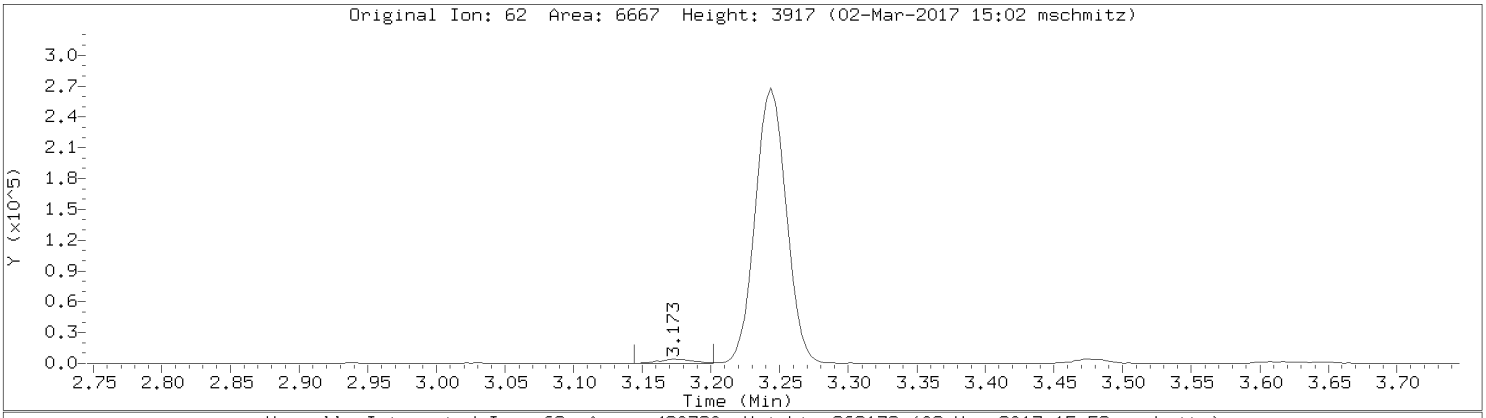
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

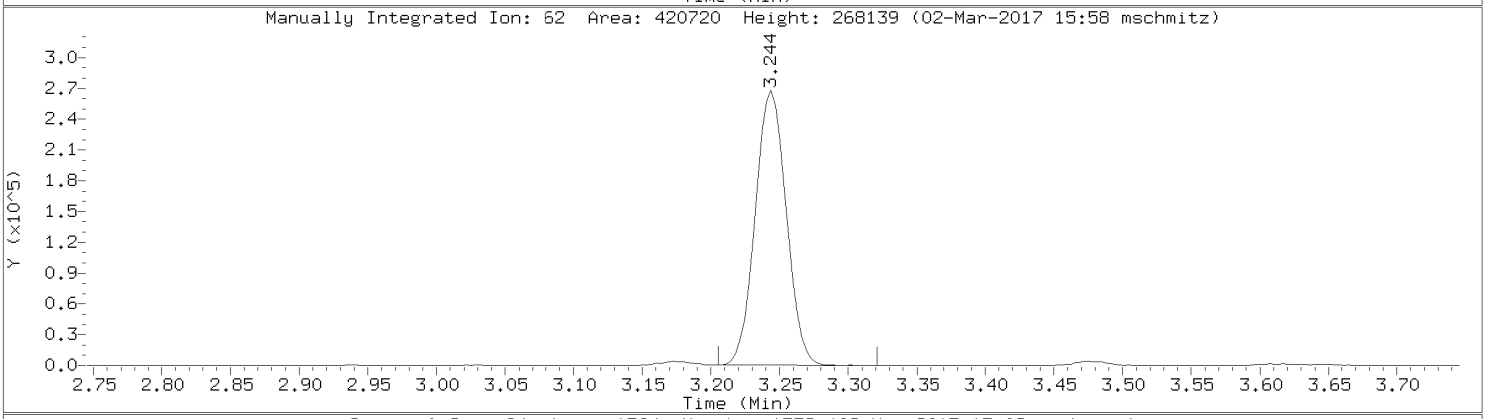
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06115.D
Date : 02-MAR-2017 14:08
Client ID:
Instrument: 10airB.i
Sample Info:
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

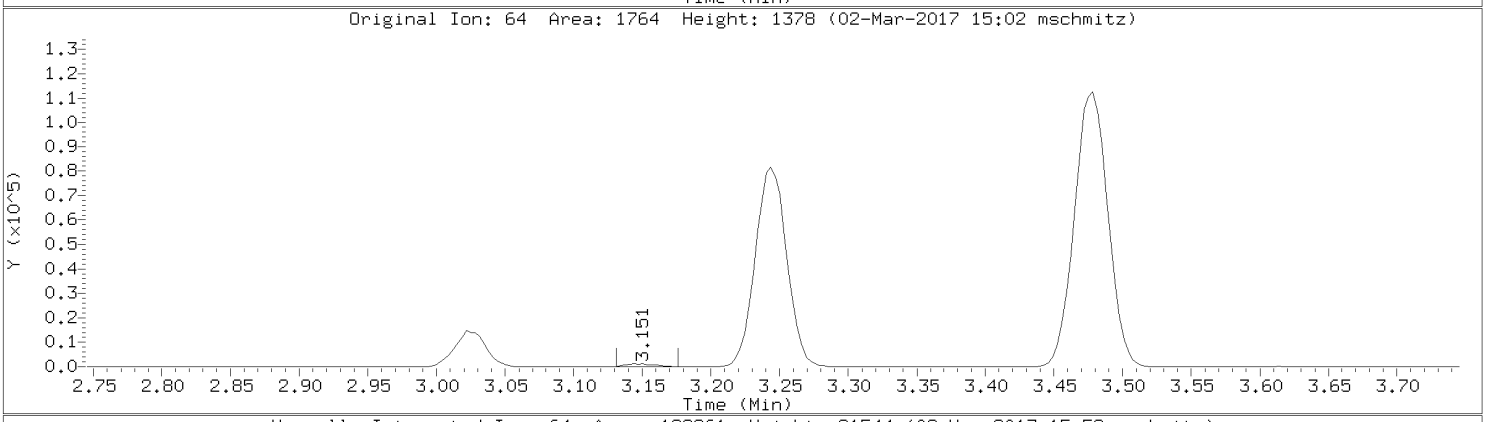


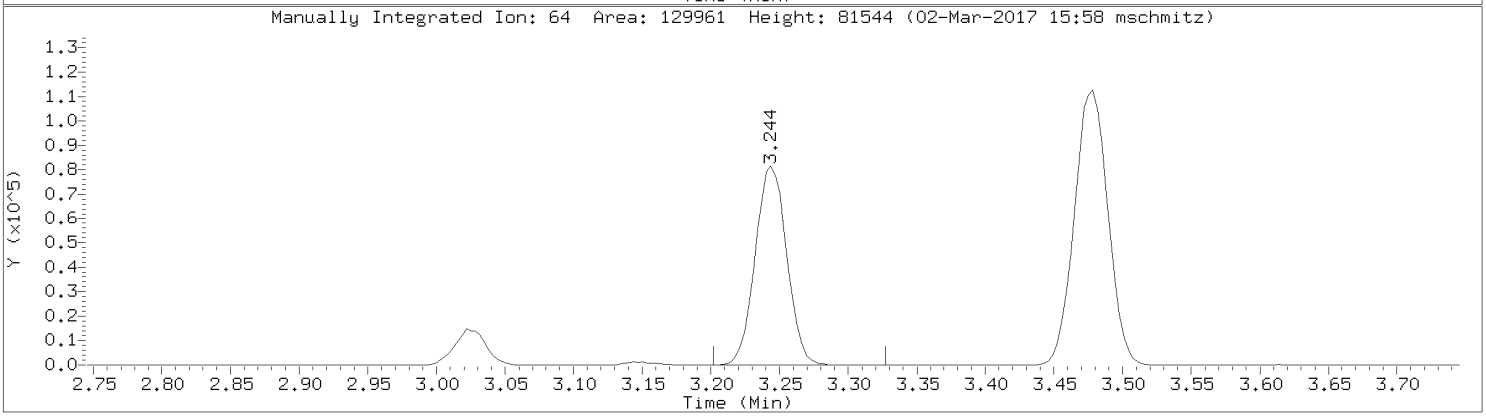
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06115.D
Injection Date: 02-MAR-2017 14:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: Vinyl chloride
CAS Number: 75-01-4



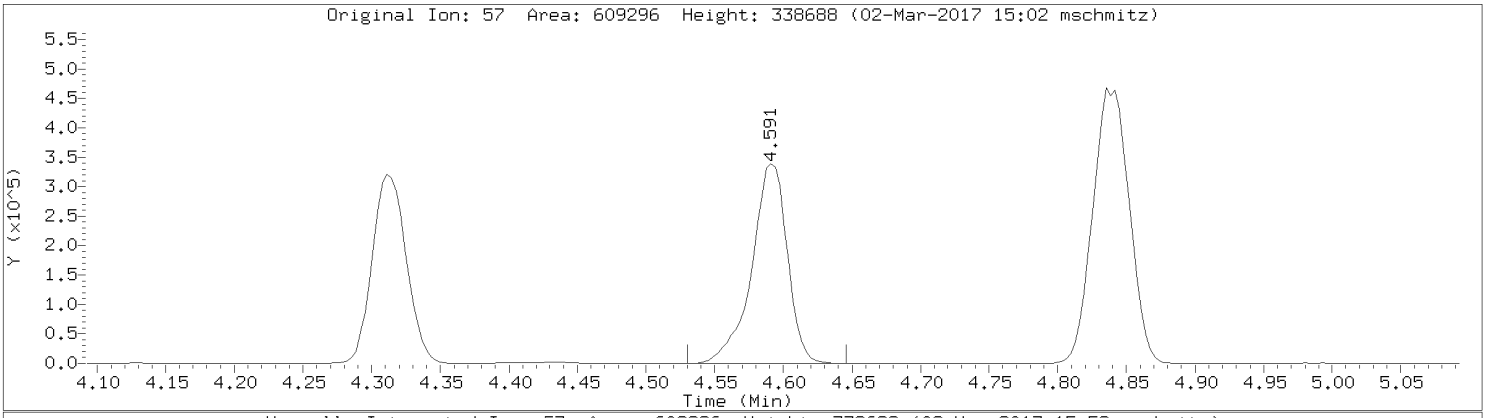


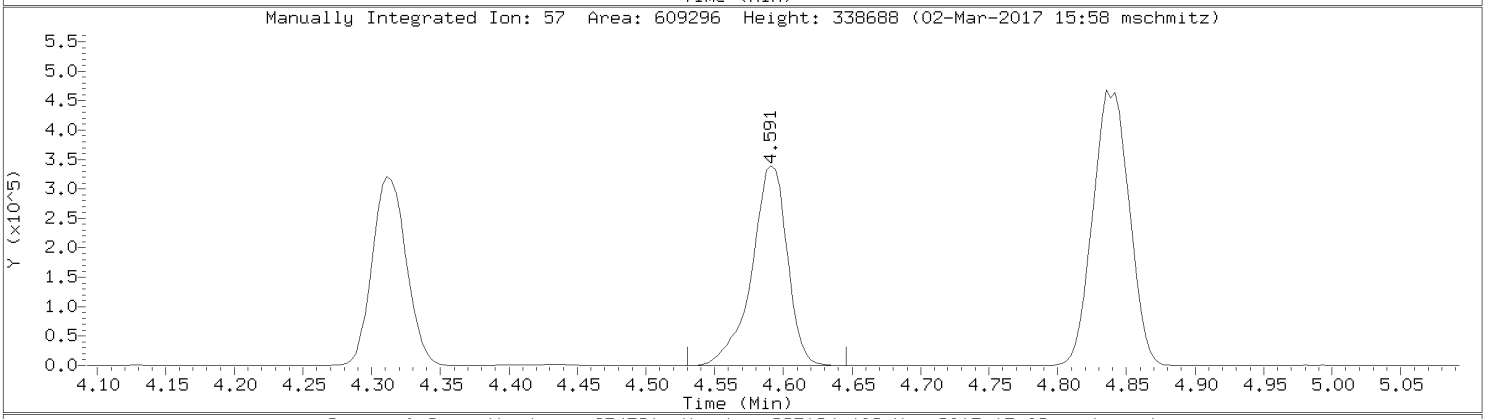


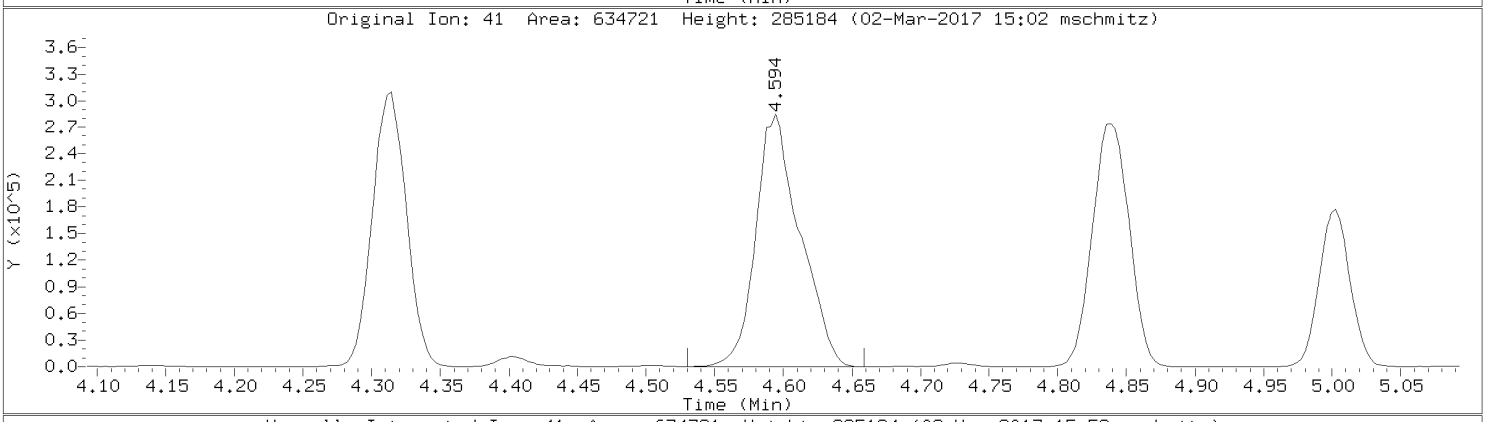


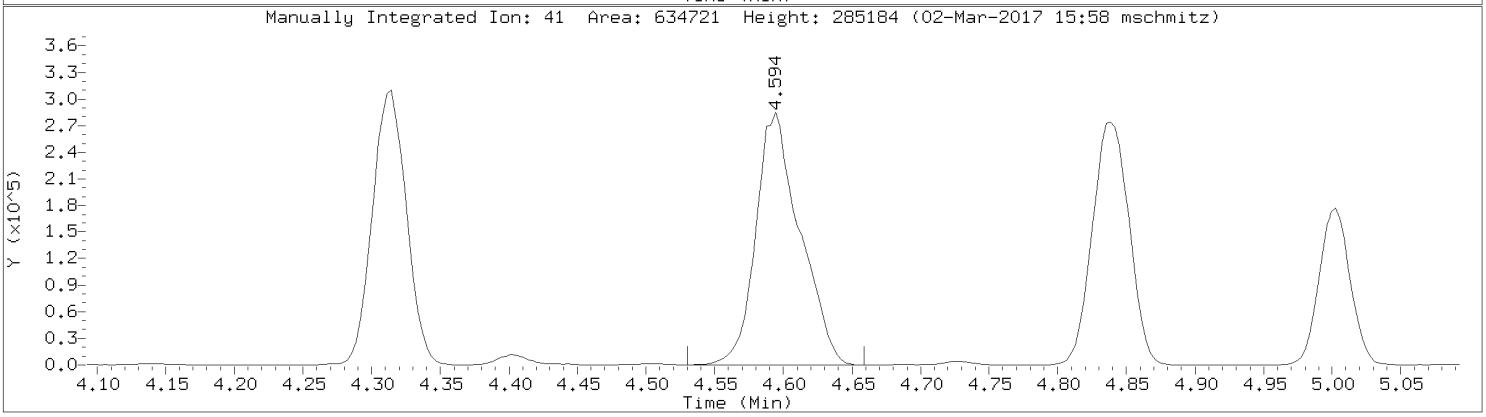
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06115.D
Injection Date: 02-MAR-2017 14:08
Instrument: 10airB.i
Lab Sample ID: cal7

Compound: n-Hexane
CAS Number: 110-54-3

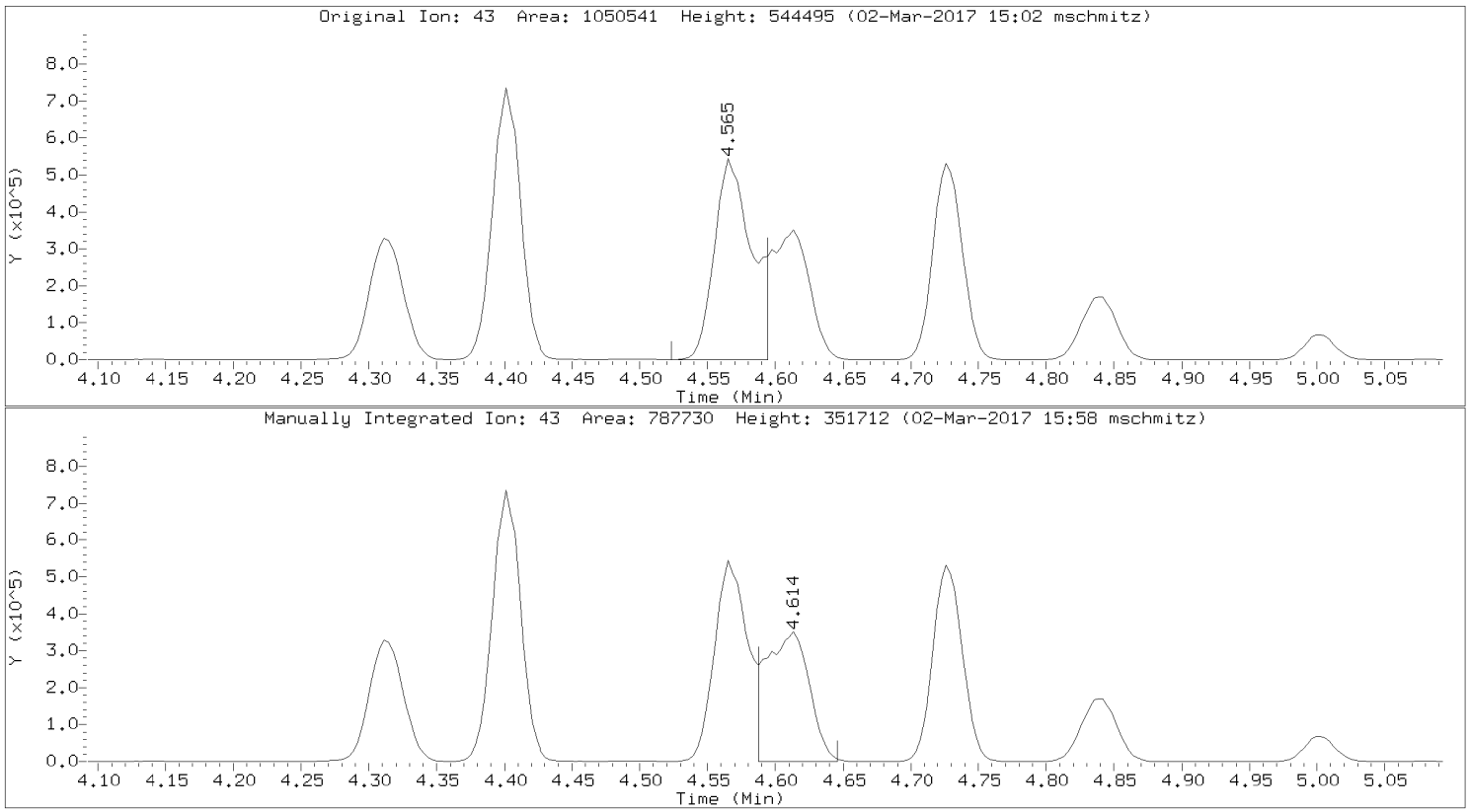








Data File: \\192.168.10.12\chem\10airB.i\030217.b/06115.D
Injection Date: 02-MAR-2017 14:08
Instrument: 10airB.i
Lab Sample ID: cal7



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Lab Smp Id: ICV
Inj Date : 02-MAR-2017 15:02
Operator : MLS Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Meth Date : 02-Mar-2017 16:01 10airB.i Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIR04

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.947	2.941	(0.525)	2329	0.34054	0.341
2	1,1-Difluoroethane	65	3.015	3.025	(0.537)	1500	0.18027	0.180(QM)
3	Chlorodifluoromethane	67	3.031	3.025	(0.540)	40126	10.0617	10.1(Q)
4	Propylene	41	3.034	3.028	(0.541)	95911	9.07793	9.08
5	Dichlorodifluoromethane	85	3.066	3.063	(0.546)	400235	9.92461	9.92
6	Chloromethane	50	3.160	3.163	(0.563)	156772	9.61397	9.61
7	Dichlorotetrafluoroethane	85	3.169	3.176	(0.565)	371174	9.42006	9.42
8	Vinyl chloride	62	3.237	3.243	(0.577)	139316	9.88996	9.89
9	1,3-Butadiene	54	3.282	3.285	(0.585)	102070	9.94894	9.95
10	Bromomethane	94	3.417	3.423	(0.609)	122618	9.40917	9.41
11	Chloroethane	64	3.468	3.478	(0.618)	63153	9.74957	9.75
12	Ethanol	45	3.542	3.555	(0.631)	60462	11.5940	11.6
13	Vinyl Bromide	106	3.584	3.591	(0.639)	136378	10.1033	10.1
14	Isopentane	43	3.606	3.610	(0.643)	133832	9.35317	9.35
15	Freon 123	83	3.616	3.613	(0.644)	5394	0.28052	0.281
16	Trichlorofluoromethane	101	3.677	3.684	(0.655)	364964	9.37969	9.38
17	Acrolein	56	3.677	3.697	(0.655)	49388	9.57669	9.58
18	Acetone	43	3.719	3.732	(0.663)	235507	10.4583	10.5
19	Isopropyl Alcohol	45	3.761	3.783	(0.670)	273721	11.9185	11.9
20	1,1-Dichloroethene	61	3.912	3.922	(0.697)	222206	9.81933	9.82
21	Acrylonitrile	53	3.918	3.941	(0.698)	113870	10.9434	10.9
22	Freon 113	101	3.954	3.960	(0.704)	285795	9.72658	9.73
23	Methyl Acetate	43	3.951	3.973	(0.704)	57904	1.68890	1.69(Q)

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
24	Tert Butyl Alcohol (TBA)	59	3.951	3.973	(0.704)	348162	11.7929	11.8
25	Methylene chloride	49	4.002	4.015	(0.713)	176972	11.1346	11.1
26	Allyl Chloride	76	4.015	4.031	(0.715)	60279	10.7959	10.8
27	Carbon Disulfide	76	4.127	4.137	(0.735)	368150	12.2991	12.3
28	trans-1,2-dichloroethene	96	4.272	4.285	(0.761)	144755	11.4008	11.4
29	Methyl Tert Butyl Ether	73	4.307	4.314	(0.767)	392539	10.8451	10.8
30	Vinyl Acetate	43	4.385	4.401	(0.781)	391953	10.3344	10.3
31	1,1-Dichloroethane	63	4.404	4.423	(0.785)	254084	10.2735	10.3
$ 32	Hexane-d14(S)	66	4.491	4.497	(0.800)	463227	10.2588	10.3
33	Methyl Ethyl Ketone	72	4.555	4.565	(0.812)	65859	9.81699	9.82(QM)
34	n-Hexane	57	4.584	4.591	(0.817)	229548	10.1426	10.1
35	Di-isopropyl Ether	45	4.603	4.613	(0.820)	430367	9.80507	9.81
36	Ethyl Acetate	43	4.716	4.726	(0.840)	301709	10.3581	10.4
37	cis-1,2-Dichloroethene	96	4.722	4.735	(0.841)	148653	10.4788	10.5
38	Ethyl Tert-Butyl Ether	59	4.828	4.838	(0.860)	511155	11.1226	11.1
39	Chloroform	83	4.841	4.854	(0.863)	307382	10.4542	10.5
40	Tetrahydrofuran	42	4.995	5.002	(0.890)	158403	10.0789	10.1
41	1,1,1-Trichloroethane	97	5.227	5.240	(0.931)	341572	9.87469	9.87
42	1,2-Dichloroethane	62	5.237	5.250	(0.933)	257885	9.82778	9.83
43	Benzene	78	5.465	5.478	(0.974)	459947	10.0486	10.0
44	Carbon tetrachloride	117	5.484	5.494	(0.977)	367551	10.6322	10.6
45	Cyclohexane	56	5.491	5.497	(0.978)	223245	9.74303	9.74
46	Tert Amyl Methyl Ether	73	5.606	5.613	(0.999)	444147	9.93423	9.93
* 47	1,4-Difluorobenzene	114	5.613	5.623	(1.000)	1419261	10.0000	
48	2,2,4-Trimethylpentane	57	5.767	5.783	(1.027)	777253	10.9632	11.0
49	Heptane	43	5.893	5.899	(1.050)	255573	9.99267	9.99
50	1,2-Dichloropropane	63	5.967	5.973	(1.063)	168288	10.1502	10.2
51	Trichloroethene	130	5.989	5.996	(1.067)	236200	9.90513	9.91
52	Methyl methacrylate	69	6.047	6.053	(1.077)	160590	10.3539	10.4
53	1,4-Dioxane	88	6.066	6.073	(1.081)	112170	10.4891	10.5
54	Bromodichloromethane	83	6.085	6.095	(1.084)	340477	10.0765	10.1
55	Methylcyclohexane	98	6.430	6.439	(1.145)	130960	10.1301	10.1
56	Methyl Isobutyl Ketone	43	6.532	6.539	(1.164)	415082	11.8901	11.9
57	cis-1,3-Dichloropropene	75	6.587	6.597	(1.174)	274586	9.64372	9.64
58	trans-1,3-Dichloropropene	75	6.986	6.992	(1.245)	258132	9.85587	9.86
$ 59	Toluene-d8 (S)	98	7.079	7.082	(1.261)	1220065	9.60471	9.60
60	1,1,2-Trichloroethane	97	7.143	7.153	(1.273)	188292	9.89178	9.89
61	Toluene	91	7.150	7.160	(1.274)	568012	9.90919	9.91
62	Methyl Butyl Ketone	43	7.372	7.378	(0.853)	399551	13.3664	13.4
63	n-Octane	43	7.584	7.590	(0.877)	14523	0.44862	0.449
64	Dibromochloromethane	129	7.674	7.687	(0.888)	377778	10.1252	10.1
65	1,2-Dibromoethane	107	7.909	7.915	(0.915)	333612	10.9211	10.9
66	Tetrachloroethene	166	7.986	7.989	(0.924)	321706	9.78889	9.79
* 67	Chlorobenzene - d5	117	8.645	8.648	(1.000)	946444	10.0000	
68	Chlorobenzene	112	8.687	8.693	(1.005)	474913	10.1171	10.1
69	Ethyl Benzene	91	8.934	8.938	(1.033)	783844	11.2603	11.3
70	m&p-Xylene	91	9.082	9.092	(1.051)	667151	12.2106	12.2
71	n-Nonane	43	9.468	9.478	(1.095)	21533	0.76411	0.764
72	Bromoform	173	9.478	9.487	(1.096)	370931	10.3238	10.3
73	Styrene	104	9.507	9.513	(1.100)	474842	10.2843	10.3
74	o-Xylene	91	9.577	9.587	(1.108)	622148	11.1927	11.2
75	1,1,2,2-Tetrachloroethane	83	9.828	9.835	(1.137)	356403	11.6361	11.6
76	Isopropylbenzene	105	10.162	10.166	(1.176)	842597	10.7105	10.7
77	N-Propylbenzene	91	10.738	10.745	(1.242)	963013	10.8174	10.8

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.918	(1.262)	804135	9.94426	9.94
79	1,3,5-Trimethylbenzene	105	10.998	11.005	(1.272)	727707	10.9129	10.9
80	n-Decane	57	11.378	11.388	(2.027)	34361	1.16222	1.16
81	Tert-Butyl Benzene	119	11.497	11.503	(1.330)	726552	11.5608	11.6
82	1,2,4-Trimethylbenzene	105	11.510	11.519	(1.331)	685255	12.1884	12.2
83	1,3-Dichlorobenzene	146	11.796	11.799	(1.364)	434730	10.8817	10.9
84	Sec- Butylbenzene	105	11.809	11.815	(1.366)	947425	12.0317	12.0
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.857	(1.371)	591190	11.3393	11.3(M)
86	Benzyl Chloride	91	11.863	11.873	(1.372)	412584	9.69016	9.69
87	1,4-Dichlorobenzene	146	11.889	11.899	(1.375)	429188	11.6531	11.7
88	p-Isopropyltoluene	119	11.989	11.995	(1.387)	793341	10.5529	10.6
89	1,2,3-Trimethylbenzene	105	12.034	12.040	(1.392)	668386	12.0415	12.0
90	1,2-Dichlorobenzene	146	12.281	12.285	(1.421)	398788	10.2703	10.3
91	N-Butylbenzene	91	12.461	12.465	(1.441)	638861	11.0719	11.1
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.908	(1.493)	32738	2.32488	2.32
93	1,2,4-Trichlorobenzene	180	14.034	14.037	(1.623)	156600	9.79142	9.79
94	Naphthalene	128	14.166	14.169	(1.639)	429702	11.1999	11.2
95	Hexachlorobutadiene	225	14.410	14.413	(1.667)	188041	11.4497	11.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Report Date: 02-Mar-2017 16:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06117.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: MLS
Method File: \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Misc Info:

Calibration Date: 02-MAR-2017
Calibration Time: 13:10
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

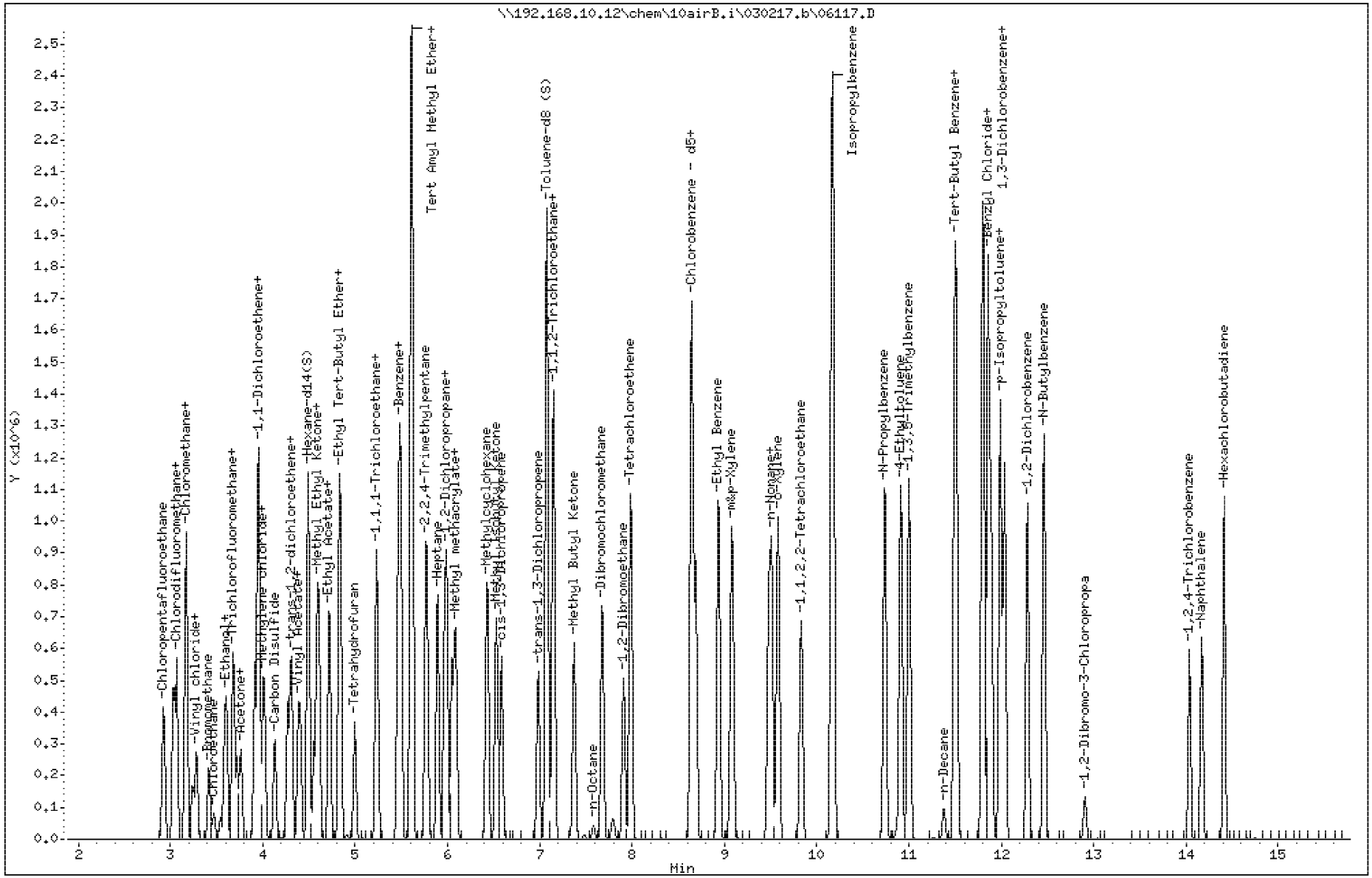
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1419261	0.36
67 Chlorobenzene - d	951026	570616	1331436	946444	-0.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

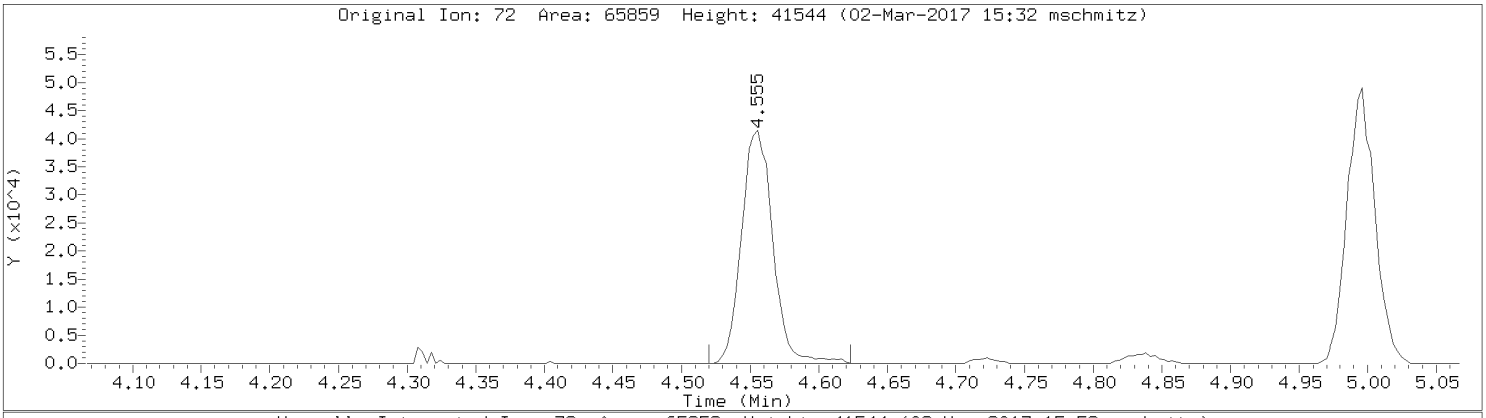
Data File: \\192.168.10.12\chem\10airB.i\030217.b\06117.D
Date : 02-MAR-2017 15:02
Client ID:
Sample Info:

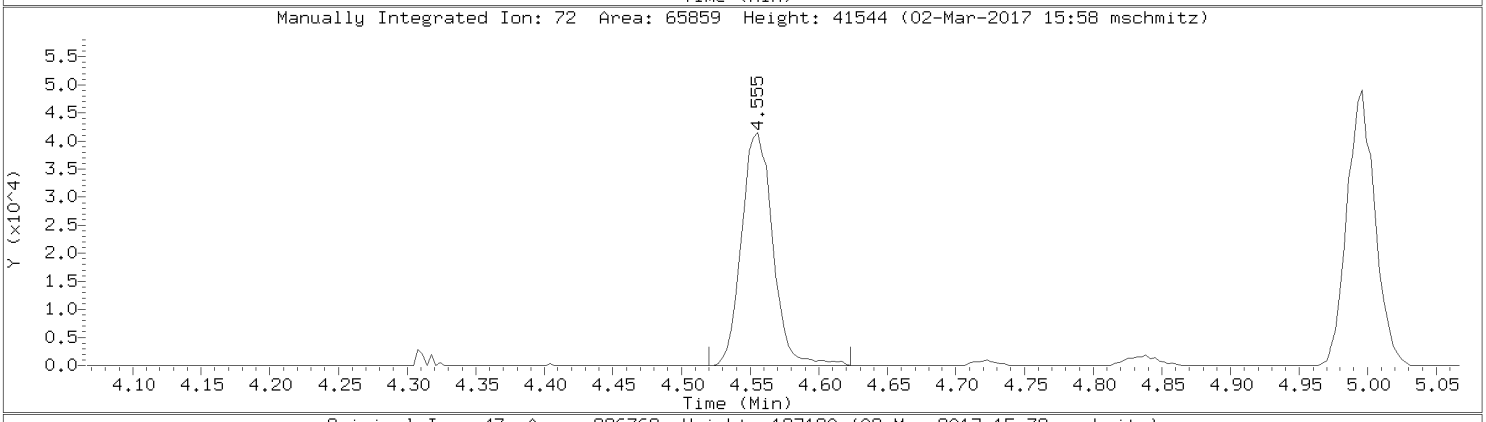
Instrument: 10airB.i
Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

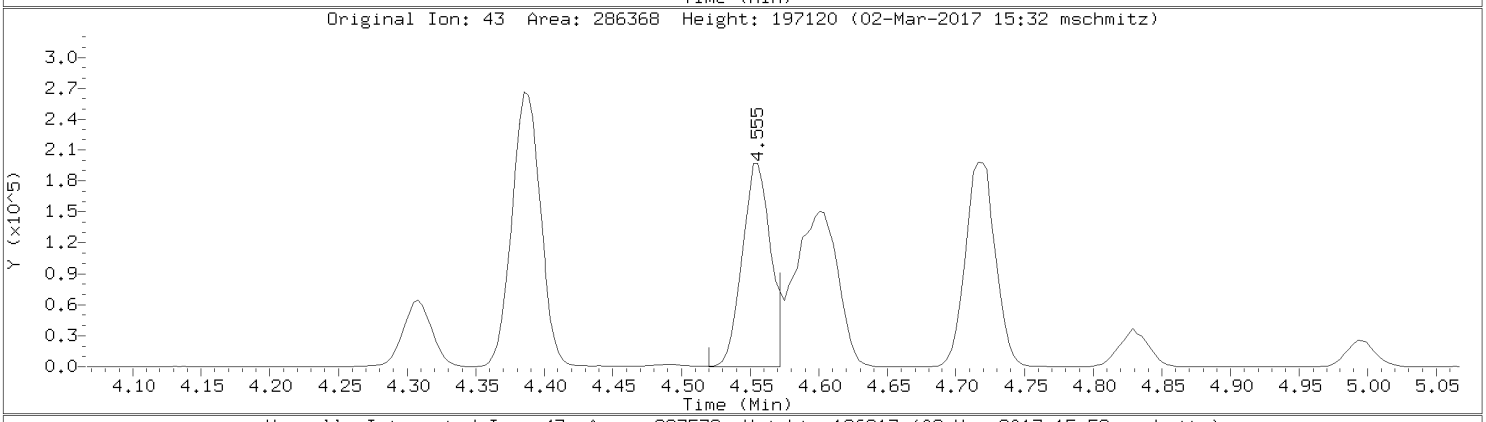


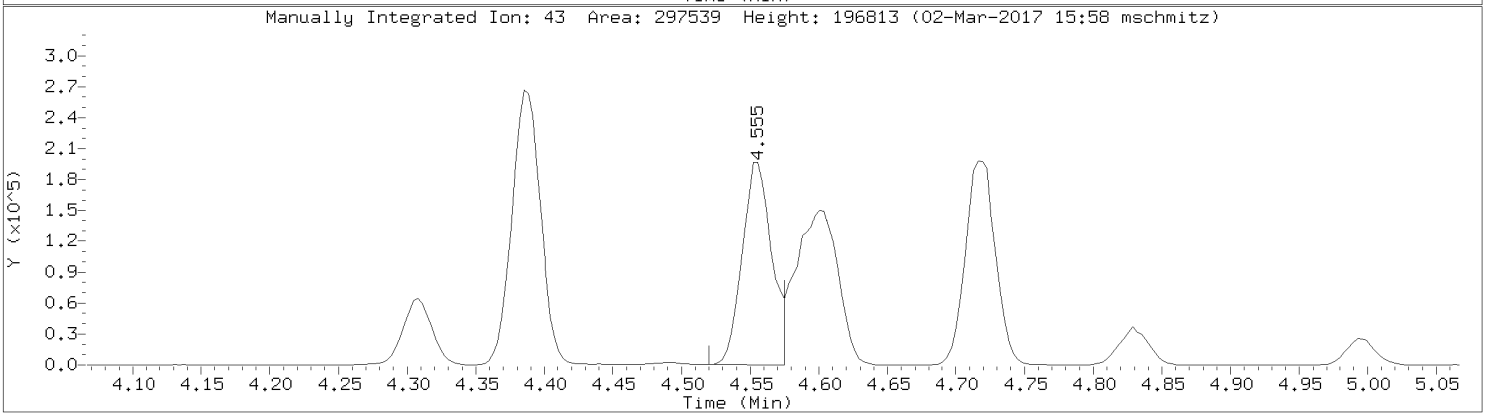
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



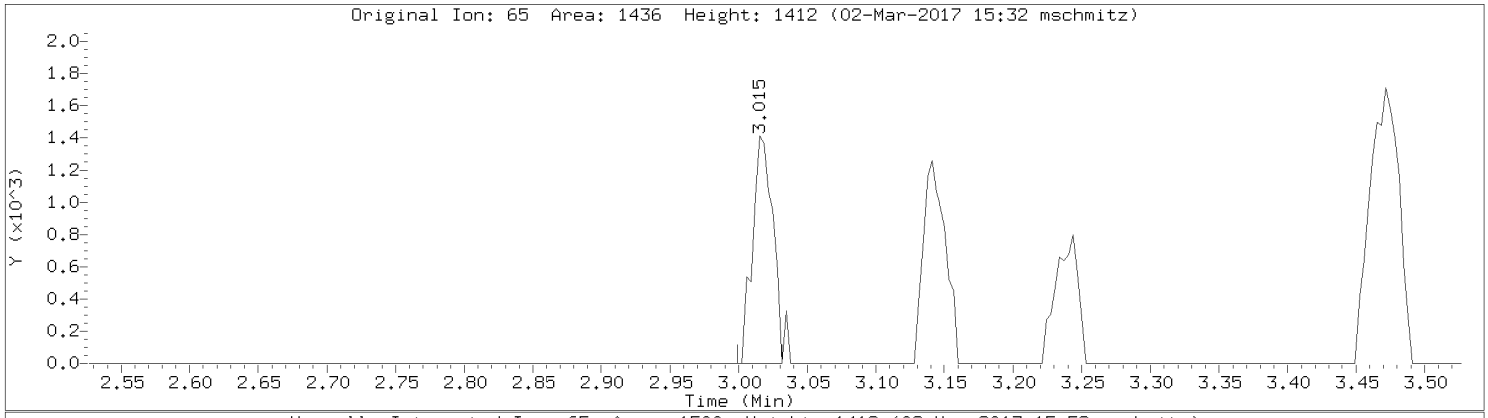


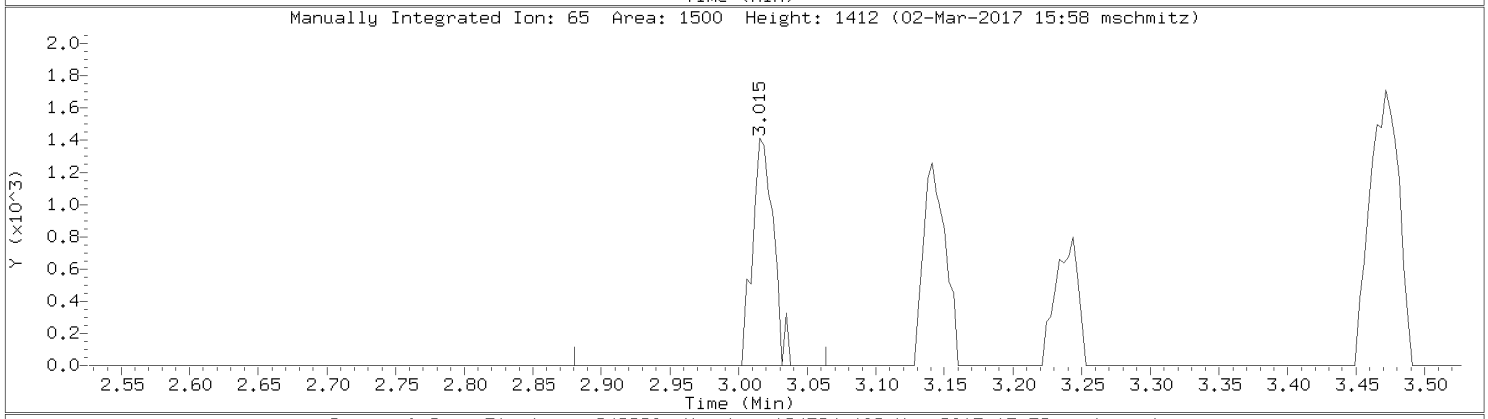


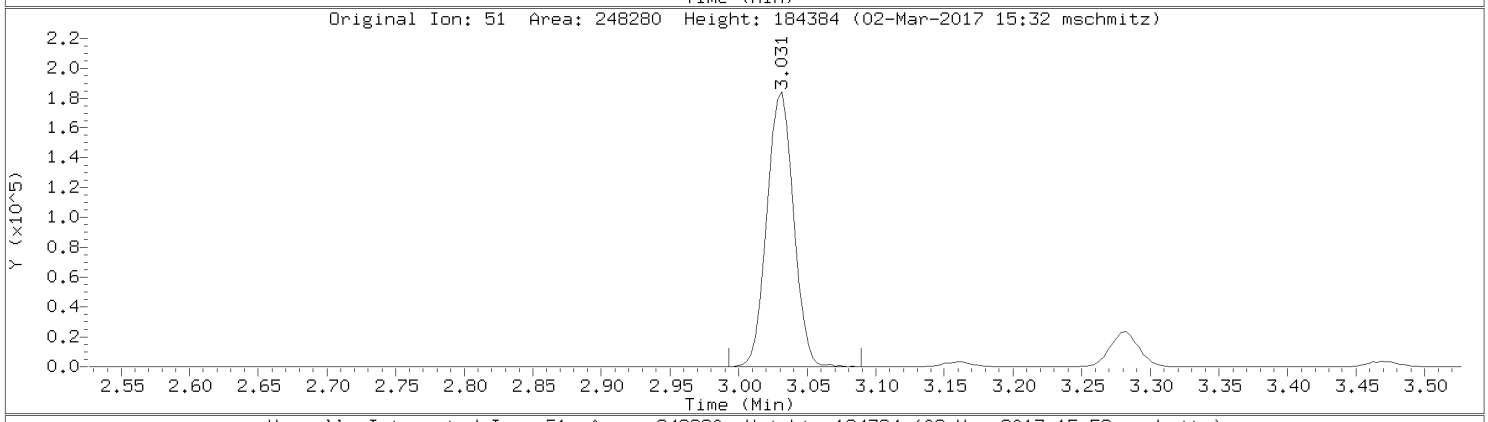


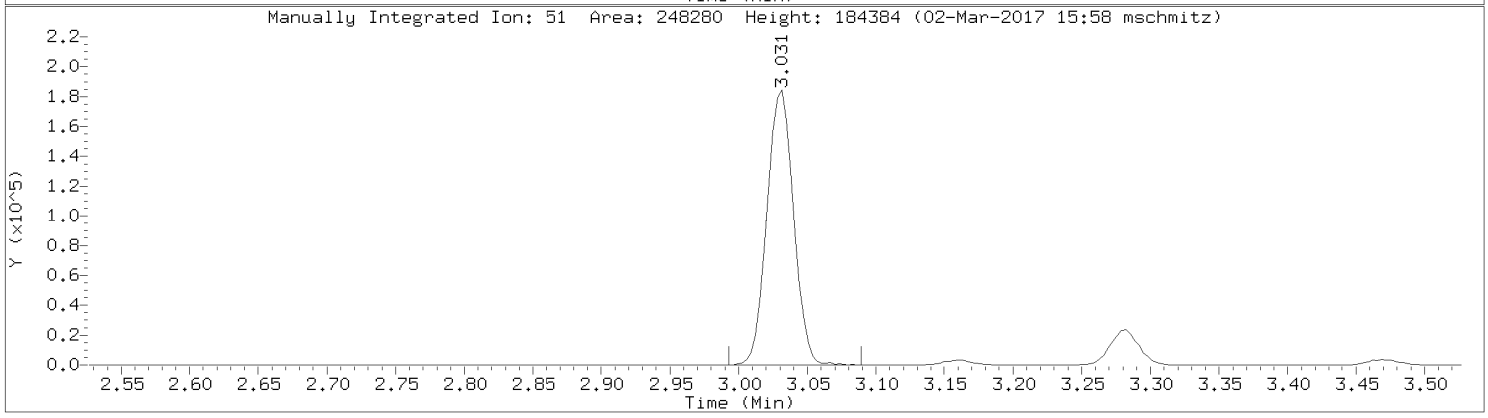
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

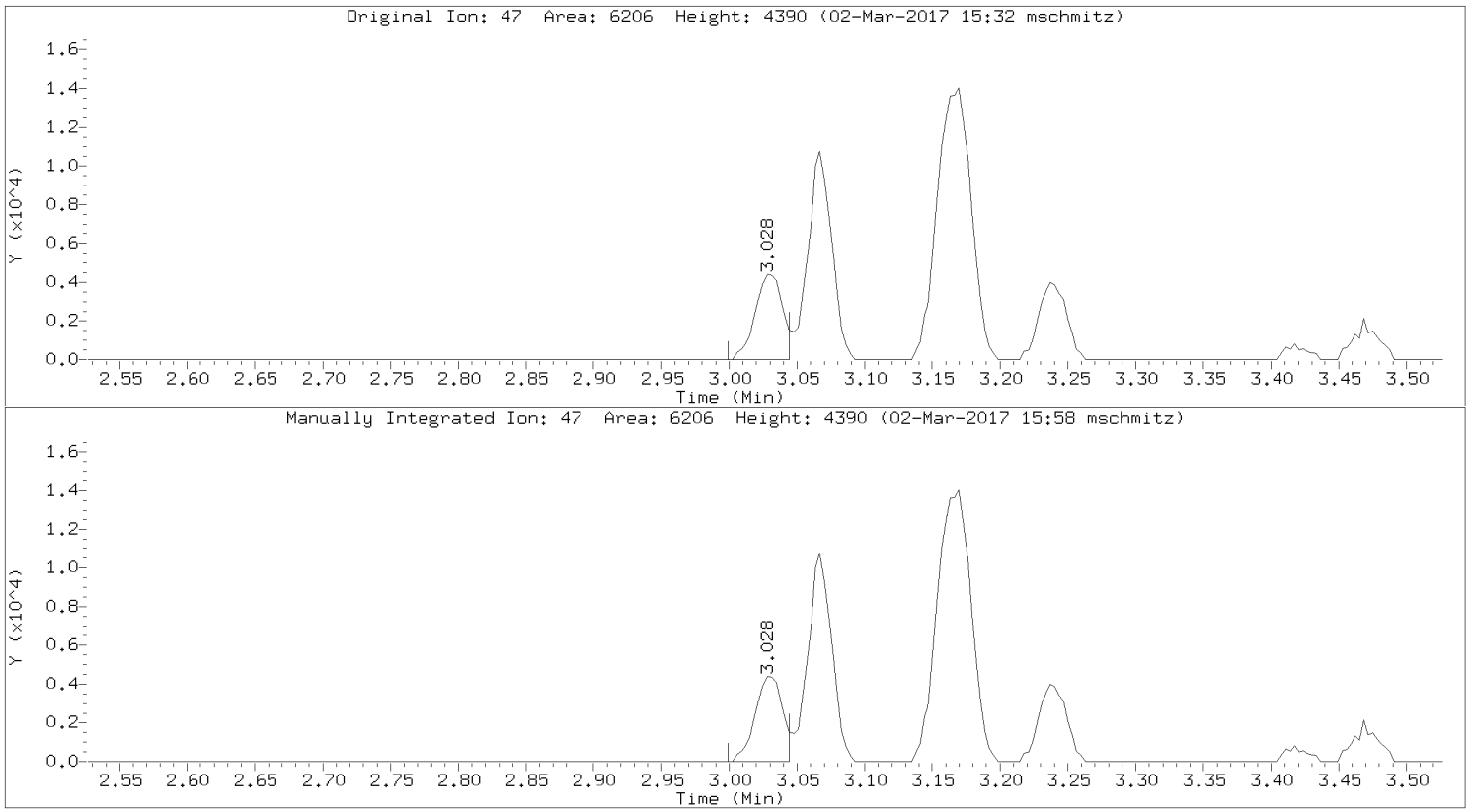






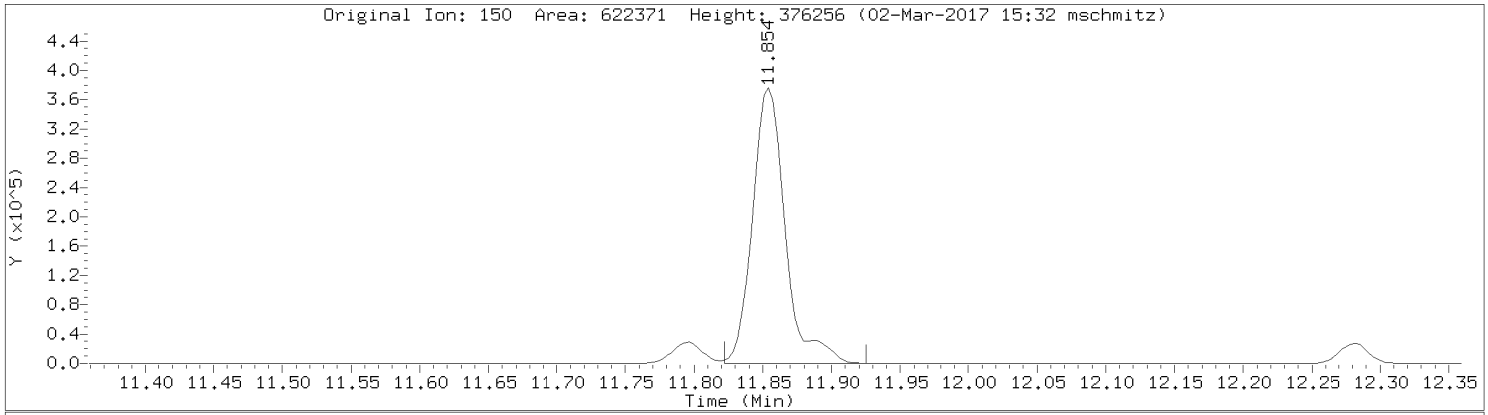


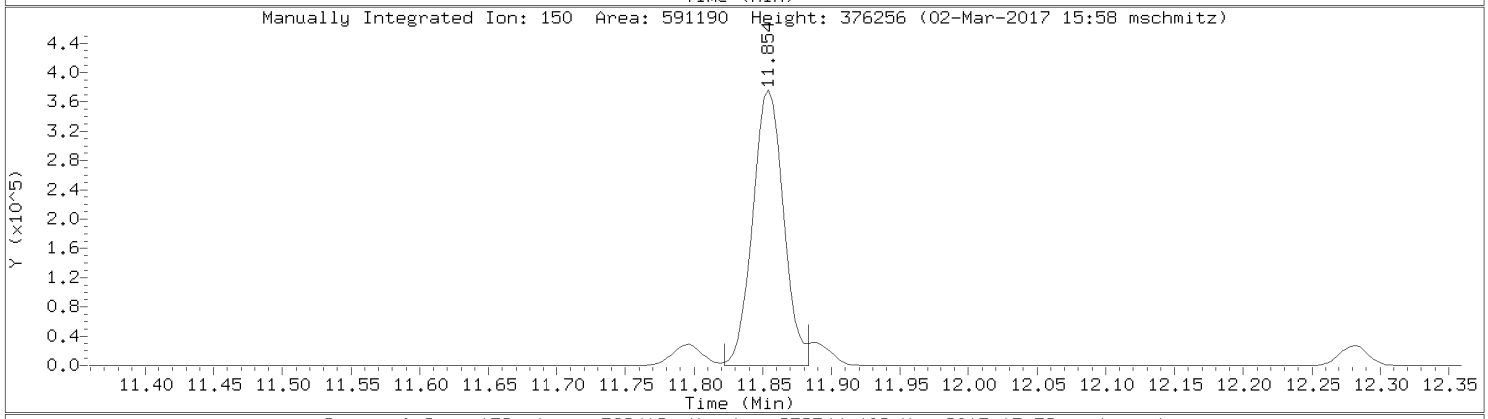
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

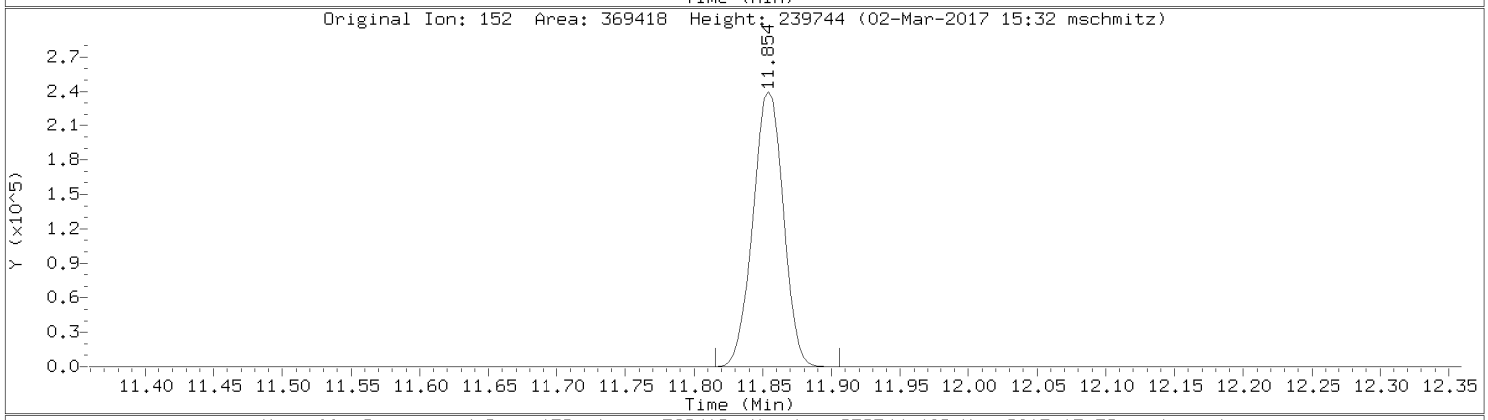


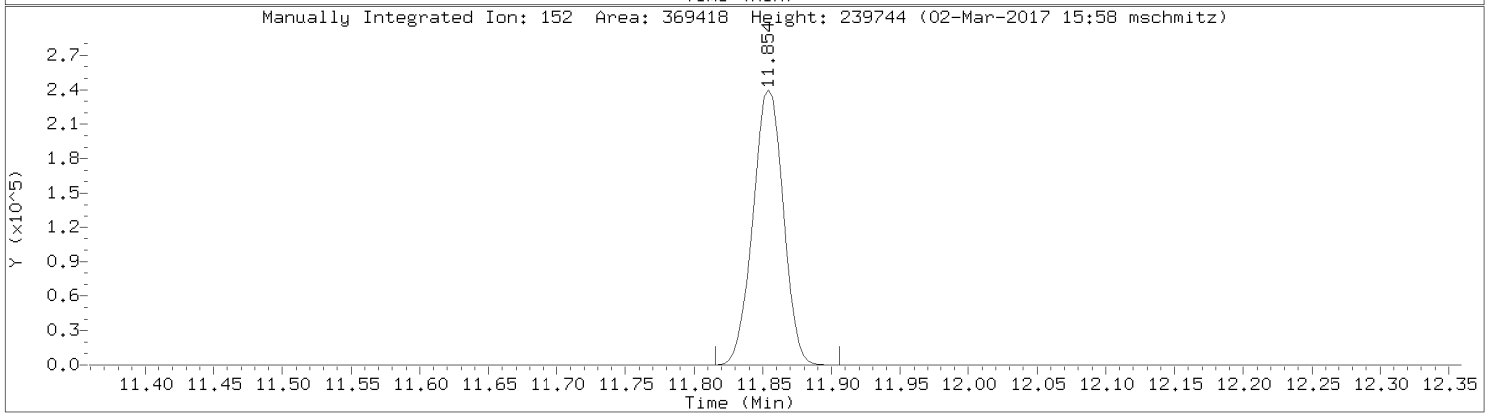
Data File: \\192.168.10.12\chem\10airB.i\030217.b/06117.D
Injection Date: 02-MAR-2017 15:02
Instrument: 10airB.i
Lab Sample ID: ICV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Level 02: all \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Level 03: all \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Level 04: all \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Level 05: all \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Level 06: all \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Level 07: all \\192.168.10.12\chem\10air7.i\030417.b\06310.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 1,1-Difluoroethane	0.18111	0.15204	0.14148	0.14005	0.15288	0.13387	0.12877	AVRG		0.14717		11.79166
3 Chlorodifluoromethane	0.07689	0.08615	0.07325	0.07108	0.08210	0.07172	0.07001	AVRG		0.07589		8.10553
4 Propylene	+++++	10787	24024	42059	180601	307959	423114	QUAD	0.01670	0.20865	-0.01525	0.99867

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Dichlorodifluoromethane	0.98904	0.82087	0.75138	0.72298	0.81068	0.70408						
	0.64991							AVRG		0.77842		14.17474
6 Chloromethane	0.41370	0.34820	0.32044	0.28791	0.31728	0.28423						
	0.26350							AVRG		0.31932		15.69995
7 Dichlorotetrafluoroethane	0.91098	0.76795	0.69862	0.64257	0.71382	0.64785						
	0.60975							AVRG		0.71308		14.28867
8 Vinyl chloride	0.30182	0.25207	0.22813	0.19759	0.22828	0.21849						
	0.21391							AVRG		0.23433		14.53605
9 1,3-Butadiene	0.20068	0.20476	0.17263	0.14046	0.16520	0.16259						
	0.15606							AVRG		0.17177		13.60934
10 Bromomethane	0.33915	0.27409	0.25158	0.20993	0.24812	0.22606						
	0.23537							AVRG		0.25490		16.61207
11 Chloroethane	0.11167	0.10549	0.09141	0.07844	0.08914	0.07982						
	0.08496							AVRG		0.09156		13.79934

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Ethanol	+++++	0.07472	0.06247	0.05699	0.07461	0.07018					
	0.06714						AVRG		0.06769		10.35278
13 Vinyl Bromide	0.32277	0.30315	0.25019	0.22324	0.26068	0.23967					
	0.24659						AVRG		0.26375		13.62086
14 Isopentane	0.35956	0.29533	0.25267	0.21591	0.24207	0.21218					
	0.21678						AVRG		0.25636		21.09203
15 Freon 123	0.79325	0.65654	0.55136	0.48460	0.57521	0.52425					
	0.53947						AVRG		0.58924		17.72269
16 Trichlorofluoromethane	1.05912	0.84541	0.72952	0.66050	0.76025	0.68495					
	0.67444						AVRG		0.77346		18.22960
17 Acrolein	0.06364	0.05771	0.05178	0.04970	0.07636	0.07310					
	0.07384						AVRG		0.06373		17.25343
18 Acetone	0.69563	0.54453	0.45312	0.39229	0.38534	0.34935					
	0.32963						AVRG		0.44998		28.89110

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	0.55320	0.39786	0.33952	0.30601	0.37839	0.33893	0.33037	AVRG		0.37776		22.02850
20 1,1-Dichloroethene	0.55854	0.48630	0.38914	0.36101	0.42424	0.38885	0.38757	AVRG		0.42795		16.41783
21 Acrylonitrile	0.24579	0.19257	0.14989	0.13556	0.17495	0.16331	0.16143	AVRG		0.17478		20.66394
22 Freon 113	0.76635	0.67012	0.53081	0.49705	0.57101	0.50912	0.50483	AVRG		0.57847		17.69795
23 Tert Butyl Alcohol (TBA)	0.68863	0.54116	0.43359	0.42010	0.53095	0.47194	0.45324	AVRG		0.50566		18.37076
24 Methyl Acetate	0.67935	0.55213	0.41351	0.37165	0.50498	0.54279	0.53015	AVRG		0.51351		19.52732
25 Methylene chloride	0.44902	0.38749	0.29362	0.26731	0.29960	0.25736	0.24523	AVRG		0.31423		24.08659

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Allyl Chloride	0.09201	0.06725	0.05594	0.05370	0.08726	0.08171	0.08148	AVRG		0.07419		20.58467
27 Carbon Disulfide	0.70211	0.62527	0.47083	0.44569	0.54768	0.50996	0.49982	AVRG		0.54305		16.76667
28 trans-1,2-dichloroethene	0.31043	0.26637	0.19728	0.18347	0.23017	0.21253	0.21008	AVRG		0.23005		19.21965
29 Methyl Tert Butyl Ether	0.85058	0.70517	0.55603	0.52375	0.61838	0.55836	0.53671	AVRG		0.62128		19.10150
30 Vinyl Acetate	0.65245	0.51289	0.38381	0.36111	0.66299	0.61267	0.60278	AVRG		0.54124		23.13979
31 1,1-Dichloroethane	0.59566	0.53825	0.40477	0.37151	0.43540	0.40825	0.40279	AVRG		0.45095		18.41783
33 Methyl Ethyl Ketone	0.10975	0.09063	0.07747	0.06918	0.08306	0.08021	0.08444	AVRG		0.08496		15.02794

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
34 n-Hexane	0.49505	0.38194	0.29012	0.26654	0.32223	0.30199	0.29344	AVRG		0.33590		23.53414
35 Di-isopropyl Ether	1.15856	1.01441	0.72832	0.69377	0.80420	0.74512	0.72383	AVRG		0.83832		21.20027
36 cis-1,2-Dichloroethene	0.34478	0.26113	0.20753	0.20237	0.25027	0.23811	0.23353	AVRG		0.24825		19.15751
37 Ethyl Acetate	0.74550	0.62080	0.45744	0.41137	0.52187	0.49129	0.48013	AVRG		0.53263		21.41013
38 Ethyl Tert-Butyl Ether	1.08365	0.88290	0.69310	0.66990	0.78813	0.69823	0.65359	AVRG		0.78136		19.90827
39 Chloroform	0.76379	0.60028	0.48325	0.47456	0.56736	0.50859	0.48321	AVRG		0.55443		18.73259
40 Tetrahydrofuran	0.39158	0.27969	0.22490	0.19971	0.25162	0.23667	0.23472	AVRG		0.25984		24.24849

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
41 1,1,1-Trichloroethane	0.81835	0.75072	0.62710	0.63490	0.70185	0.64800						
	0.56467							AVRG		0.67794		12.59517
42 1,2-Dichloroethane	0.56439	0.51531	0.42044	0.40976	0.47359	0.43113						
	0.37801							AVRG		0.45609		14.34329
43 Benzene	1.07284	0.88959	0.72018	0.66791	0.75966	0.67624						
	0.63857							AVRG		0.77500		20.05310
44 Carbon tetrachloride	0.85664	0.75370	0.67344	0.64165	0.84291	0.74234						
	0.69191							AVRG		0.74323		11.08564
45 Cyclohexane	0.53866	0.45518	0.36798	0.33439	0.37785	0.33080						
	0.31363							AVRG		0.38836		20.86348
46 Tert Amyl Methyl Ether	18647	25344	41376	67237	631504	1150933						
	1645384							LINR	0.02495	0.66171		0.99812
48 2,2,4-Trimethylpentane	1.75547	1.48033	1.23246	1.12863	1.16476	1.00746						
	0.93349							AVRG		1.24323		22.97567

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
49 Heptane	0.69456	0.60115	0.49179	0.44936	0.47986	0.42683						
	0.41096							AVRG		0.50779		20.33583
50 1,2-Dichloropropane	0.38498	0.34645	0.28683	0.26292	0.28885	0.26355						
	0.25495							AVRG		0.29836		16.41511
51 Trichloroethene	0.65894	0.53485	0.44695	0.41880	0.45115	0.40205						
	0.38994							AVRG		0.47181		20.18391
52 Methyl methacrylate	0.31309	0.25264	0.20751	0.19039	0.23663	0.21150						
	0.20734							AVRG		0.23130		17.98156
53 Bromodichloromethane	0.85004	0.66061	0.57468	0.55637	0.69541	0.61495						
	0.59516							AVRG		0.64960		15.50468
54 1,4-Dioxane	0.19217	0.12514	0.12103	0.09914	0.13515	0.12174						
	0.10591							AVRG		0.12861		23.71939
55 Methylcyclohexane	0.20695	0.18819	0.16392	0.15373	0.16641	0.15001						
	0.14614							AVRG		0.16791		13.20429

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
56 Methyl Isobutyl Ketone	0.94008	0.76944	0.64591	0.60234	0.66394	0.58030	0.54302	AVRG		0.67786		20.13436
57 cis-1,3-Dichloropropene	0.53196	0.46542	0.38894	0.37703	0.45778	0.42009	0.41095	AVRG		0.43603		12.25055
58 trans-1,3-Dichloropropene	0.47623	0.38997	0.33079	0.32546	0.44100	0.40042	0.39676	AVRG		0.39438		13.78300
60 Toluene	1.30936	1.05721	0.87799	0.85230	0.91315	0.80818	0.79683	AVRG		0.94500		19.32586
61 1,1,2-Trichloroethane	0.49909	0.39686	0.32841	0.30680	0.34582	0.31044	0.30449	AVRG		0.35599		19.91599
62 Methyl Butyl Ketone	1.48158	1.07284	0.89976	0.78574	0.91998	0.80189	0.75089	AVRG		0.95895		26.55539
63 n-Octane	1.33364	1.19767	0.97579	0.87398	0.97562	0.82909	0.78979	AVRG		0.99651		20.10190

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	1.40574	1.14246	1.00544	0.96546	1.32030	1.16829						
	1.11598							AVRG		1.16053		13.63011
65 1,2-Dibromoethane	1.23923	0.95229	0.82464	0.77768	0.94672	0.83421						
	0.80034							AVRG		0.91073		17.59608
66 Tetrachloroethene	1.39715	1.13722	0.94958	0.88344	0.96482	0.82785						
	0.78043							AVRG		0.99150		21.44522
68 Chlorobenzene	1.64503	1.34896	1.11282	1.05208	1.19725	1.06178						
	1.02113							AVRG		1.20558		18.56660
69 Ethyl Benzene	2.68170	2.11748	1.74498	1.60813	1.79893	1.60158						
	1.51856							AVRG		1.86734		21.91570
70 m&p-Xylene	2.32181	1.61619	1.34007	1.22977	1.37470	1.22051						
	1.15946							AVRG		1.46607		27.69555
71 Bromoform	1.09743	0.76969	0.65395	0.66845	1.24718	1.10637						
	1.04995							AVRG		0.94186		25.40218

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
72 n-Nonane	1.10533	0.98310	0.86584	0.81573	0.93953	0.80619	0.75031	AVRG		0.89515		13.67732
73 Styrene	1.25914	1.00308	0.85628	0.82715	0.98888	0.88878	0.85780	AVRG		0.95444		15.76717
74 o-Xylene	2.22542	1.63389	1.33291	1.27308	1.39708	1.21384	1.18006	AVRG		1.46518		25.07593
75 1,1,2,2-Tetrachloroethane	1.33192	0.93705	0.81911	0.71992	0.86382	0.76867	0.75225	AVRG		0.88468		23.78430
76 Isopropylbenzene	2.80306	2.26328	1.88591	1.77323	1.96929	1.74324	1.65475	AVRG		2.01325		19.90460
77 N-Propylbenzene	2.79585	2.20558	1.90501	1.78528	2.07758	1.83389	1.77153	AVRG		2.05353		17.74282
78 4-Ethyltoluene	2.63604	1.83663	1.61450	1.50396	1.76956	1.57110	1.52700	AVRG		1.77983		22.32553

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,3,5-Trimethylbenzene	2.18800	1.57727	1.44675	1.34114	1.47810	1.32787						
	1.26707							AVRG		1.51803		20.64799
80 n-Decane	0.52717	0.43327	0.38237	0.39327	0.47503	0.44851						
	0.44758							AVRG		0.44389		11.03656
81 Tert-Butyl Benzene	2.30782	1.75245	1.55311	1.48454	1.55886	1.39407						
	1.32630							AVRG		1.62531		20.31793
82 1,2,4-Trimethylbenzene	+++++	1.49817	1.30367	1.24419	1.34482	1.23228						
	1.18003							AVRG		1.30053		8.65728
83 1,3-Dichlorobenzene	1.32523	0.86694	0.73363	0.71623	0.87748	0.83667						
	0.81193							AVRG		0.88116		23.31102
84 Sec- Butylbenzene	2.71123	2.07668	1.85960	1.77781	1.90738	1.73642						
	1.68378							AVRG		1.96470		17.99683
86 Benzyl Chloride	0.84612	0.53888	0.48876	0.43831	0.75526	0.78311						
	0.79290							AVRG		0.66334		25.34511

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
87 1,4-Dichlorobenzene	1.23013	0.78568	0.66796	0.63289	0.79554	0.78246	0.76115	AVRG		0.80797		24.33559
88 p-Isopropyltoluene	2.18749	1.61840	1.50692	1.45354	1.59075	1.47831	1.44518	AVRG		1.61151		16.29089
89 1,2,3-Trimethylbenzene	2.10577	1.37677	1.19550	1.13893	1.22812	1.14252	1.10830	AVRG		1.32799		26.68105
90 1,2-Dichlorobenzene	1.13331	0.79009	0.67616	0.64131	0.76089	0.73286	0.71025	AVRG		0.77784		21.14866
91 N-Butylbenzene	1.54341	1.02181	0.96195	0.91772	1.09128	1.02328	1.02236	AVRG		1.08312		19.40332
92 1,2-Dibromo-3-Chloropropane	0.25131	0.16478	0.14018	0.12847	0.21499	0.20041	0.19818	AVRG		0.18548		23.41793
93 1,2,4-Trichlorobenzene	1286	1265	2814	4736	45723	103855	154120	LINR	-0.00059	0.09203		0.99912

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	2740	2805	6365	10481	90166	193658					
	268656						LINR	0.00402	0.16287		0.99759
95 Hexachlorobutadiene	+++++	3869	8007	17276	106467	187769					
	271135						QUAD	0.00678	0.19414	-0.01199	0.99899
$ 32 Hexane-d14(S)	0.28622	0.28708	0.25310	0.25577	0.26701	0.27695					
	0.28448						AVRG		0.27295		5.28674
$ 59 Toluene-d8 (S)	0.83074	0.84525	0.84391	0.83310	0.83807	0.83670					
	0.84836						AVRG		0.83944		0.78206
$ 85 1,4-dichlorobenzene-d4 (S)	0.35107	0.34678	0.36753	0.39357	0.43999	0.47901					
	0.48608						AVRG		0.40915		14.45556

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Average %RSD Results.
Calculated Average %RSD = 18.37878
Maximun Average %RSD = 0.000e+000
* Failed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Report Date: 04-Mar-2017 13:06

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Lab Smp Id: CAL1
Inj Date : 04-MAR-2017 08:10
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:05 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.314	2.314	(0.515)	330	0.10000	(aQM)
2	1,1-Difluoroethane	65	2.362	2.362	(0.525)	1703	0.10000	0.123(Q)
3	Chlorodifluoromethane	67	2.381	2.381	(0.530)	723	0.10000	0.101(QM)
4	Propylene	41	2.388	2.388	(0.531)	6383	0.10000	137(A)
5	Dichlorodifluoromethane	85	2.401	2.401	(0.534)	9300	0.10000	0.127
6	Chloromethane	50	2.471	2.471	(0.550)	3890	0.10000	0.130
7	Dichlorotetrafluoroethane	85	2.465	2.465	(0.548)	8566	0.10000	0.128
8	Vinyl chloride	62	2.529	2.529	(0.562)	2838	0.10000	0.129
9	1,3-Butadiene	54	2.558	2.558	(0.569)	1887	0.10000	0.117
10	Bromomethane	94	2.658	2.658	(0.591)	3189	0.10000	0.133
11	Chloroethane	64	2.693	2.693	(0.599)	1050	0.10000	0.122
12	Ethanol	45	2.716	2.716	(0.604)	4963	0.50000	0.780
13	Vinyl Bromide	106	2.787	2.787	(0.620)	3035	0.10000	0.122
14	Isopentane	43	2.799	2.799	(0.623)	3381	0.10000	0.140
15	Freon 123	83	2.796	2.796	(0.622)	7459	0.10000	0.135
16	Trichlorofluoromethane	101	2.857	2.857	(0.635)	9959	0.10000	0.137
17	Acrolein	56	2.851	2.851	(0.634)	1496	0.25000	0.250
18	Acetone	43	2.880	2.880	(0.640)	32705	0.50000	0.773(M)
19	Isopropyl Alcohol	45	2.893	2.893	(0.643)	26009	0.50000	0.732(QM)
20	1,1-Dichloroethene	61	3.047	3.047	(0.678)	5252	0.10000	0.131
21	Acrylonitrile	53	3.044	3.044	(0.677)	5778	0.25000	0.352
22	Freon 113	101	3.076	3.076	(0.684)	7206	0.10000	0.132
23	Tert Butyl Alcohol (TBA)	59	3.053	3.053	(0.679)	16188	0.25000	0.340

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Report Date: 04-Mar-2017 13:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.076	3.076	(0.684)	6388	0.10000	0.132(QM)
	25 Methylene chloride	49	3.118	3.118	(0.693)	21111	0.50000	0.714
	26 Allyl Chloride	76	3.127	3.127	(0.695)	2163	0.25000	0.310(Q)
	27 Carbon Disulfide	76	3.224	3.224	(0.717)	6602	0.10000	0.129
	28 trans-1,2-dichloroethene	96	3.336	3.336	(0.742)	2919	0.10000	0.135
	29 Methyl Tert Butyl Ether	73	3.365	3.365	(0.748)	19995	0.25000	0.342
	30 Vinyl Acetate	43	3.433	3.433	(0.763)	6135	0.10000	0.121(M)
	31 1,1-Dichloroethane	63	3.446	3.446	(0.766)	5601	0.10000	0.132
$	32 Hexane-d14(S)	66	3.523	3.523	(0.783)	269133	10.0000	10.5
	33 Methyl Ethyl Ketone	72	3.577	3.577	(0.796)	1032	0.10000	0.129(Q)
	34 n-Hexane	57	3.603	3.603	(0.801)	4655	0.10000	0.147(M)
	35 Di-isopropyl Ether	45	3.619	3.619	(0.805)	10894	0.10000	0.138
	36 cis-1,2-Dichloroethene	96	3.716	3.716	(0.826)	3242	0.10000	0.139
	37 Ethyl Acetate	43	3.725	3.725	(0.828)	7010	0.10000	0.140
	38 Ethyl Tert-Butyl Ether	59	3.812	3.812	(0.848)	25474	0.25000	0.347
	39 Chloroform	83	3.812	3.812	(0.848)	7182	0.10000	0.138
	40 Tetrahydrofuran	42	3.963	3.963	(0.881)	3682	0.10000	0.151
	41 1,1,1-Trichloroethane	97	4.150	4.150	(0.923)	7695	0.10000	0.121
	42 1,2-Dichloroethane	62	4.159	4.159	(0.925)	5307	0.10000	0.124
	43 Benzene	78	4.359	4.359	(0.969)	10088	0.10000	0.138
	44 Carbon tetrachloride	117	4.378	4.378	(0.974)	8055	0.10000	0.115
	45 Cyclohexane	56	4.381	4.381	(0.974)	5065	0.10000	0.139
	46 Tert Amyl Methyl Ether	73	4.497	4.497	(1.000)	18647	0.10000	(aQ)
*	47 1,4-Difluorobenzene	114	4.497	4.497	(1.000)	940305	10.0000	
	48 2,2,4-Trimethylpentane	57	4.632	4.632	(1.030)	41267	0.25000	0.353
	49 Heptane	43	4.748	4.748	(1.056)	6531	0.10000	0.137
	50 1,2-Dichloropropane	63	4.812	4.812	(1.070)	3620	0.10000	0.129
	51 Trichloroethene	130	4.831	4.831	(1.074)	6196	0.10000	0.140
	52 Methyl methacrylate	69	4.902	4.902	(1.090)	2944	0.10000	0.135
	53 Bromodichloromethane	83	4.918	4.918	(1.094)	7993	0.10000	0.131
	54 1,4-Dioxane	88	4.921	4.921	(1.094)	1807	0.10000	0.149
	55 Methylcyclohexane	98	5.227	5.227	(1.162)	1946	0.10000	0.123(Q)
	56 Methyl Isobutyl Ketone	43	5.349	5.349	(1.189)	22099	0.25000	0.347
	57 cis-1,3-Dichloropropene	75	5.391	5.391	(1.199)	5002	0.10000	0.122
	58 trans-1,3-Dichloropropene	75	5.761	5.761	(1.281)	4478	0.10000	0.121
$	59 Toluene-d8 (S)	98	5.831	5.831	(1.297)	781145	10.0000	9.90
	60 Toluene	91	5.899	5.899	(1.312)	12312	0.10000	0.139
	61 1,1,2-Trichloroethane	97	5.905	5.905	(1.313)	4693	0.10000	0.140
	62 Methyl Butyl Ketone	43	6.140	6.140	(0.840)	21577	0.25000	0.386(M)
	63 n-Octane	43	6.323	6.323	(0.865)	7769	0.10000	0.134
	64 Dibromochloromethane	129	6.394	6.394	(0.875)	8189	0.10000	0.121
	65 1,2-Dibromoethane	107	6.609	6.609	(0.905)	7219	0.10000	0.136
	66 Tetrachloroethene	166	6.683	6.683	(0.915)	8139	0.10000	0.141
*	67 Chlorobenzene - d5	117	7.307	7.307	(1.000)	582541	10.0000	
	68 Chlorobenzene	112	7.349	7.349	(1.006)	9583	0.10000	0.136(M)
	69 Ethyl Benzene	91	7.587	7.587	(1.038)	15622	0.10000	0.144
	70 m&p-Xylene	91	7.735	7.735	(1.059)	27051	0.20000	0.317
	71 Bromoform	173	8.098	8.098	(1.108)	6393	0.10000	0.117
	72 n-Nonane	43	8.130	8.130	(1.113)	6439	0.10000	0.123
	73 Styrene	104	8.150	8.150	(1.115)	7335	0.10000	0.132
	74 o-Xylene	91	8.208	8.208	(1.123)	12964	0.10000	0.152
	75 1,1,2,2-Tetrachloroethane	83	8.465	8.465	(1.158)	7759	0.10000	0.151
	76 Isopropylbenzene	105	8.780	8.780	(1.202)	16329	0.10000	0.139
	77 N-Propylbenzene	91	9.339	9.339	(1.278)	16287	0.10000	0.136

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Report Date: 04-Mar-2017 13:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.506	9.506	(1.301)	15356	0.10000	0.148(M)
79	1,3,5-Trimethylbenzene	105	9.600	9.600	(1.314)	12746	0.10000	0.144
80	n-Decane	57	10.002	10.002	(2.224)	4957	0.10000	0.119
81	Tert-Butyl Benzene	119	10.095	10.095	(1.381)	13444	0.10000	0.142
82	1,2,4-Trimethylbenzene	105	10.105	10.105	(1.383)	14624	0.10000	0.193
83	1,3-Dichlorobenzene	146	10.413	10.413	(1.425)	7720	0.10000	0.150
84	Sec- Butylbenzene	105	10.436	10.436	(1.428)	15794	0.10000	0.138
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.484	10.484	(1.435)	204512	10.0000	8.58
86	Benzyl Chloride	91	10.506	10.506	(1.438)	4929	0.10000	0.128
87	1,4-Dichlorobenzene	146	10.519	10.519	(1.440)	7166	0.10000	0.152(M)
88	p-Isopropyltoluene	119	10.654	10.654	(1.458)	12743	0.10000	0.136
89	1,2,3-Trimethylbenzene	105	10.703	10.703	(1.465)	12267	0.10000	0.159
90	1,2-Dichlorobenzene	146	11.002	11.002	(1.506)	6602	0.10000	0.146
91	N-Butylbenzene	91	11.249	11.249	(1.539)	8991	0.10000	0.142
92	1,2-Dibromo-3-Chloropropane	157	11.780	11.780	(1.612)	1464	0.10000	0.135
93	1,2,4-Trichlorobenzene	180	13.043	13.043	(1.785)	1286	0.10000	0.304(QM)
94	Naphthalene	128	13.169	13.169	(1.802)	2740	0.10000	0.0419(a)
95	Hexachlorobutadiene	225	13.423	13.423	(1.837)	2950	0.10000	162(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Report Date: 04-Mar-2017 13:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06304.D
Lab Smp Id: CAL1
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	940305	12.48
67 Chlorobenzene - d	539522	323713	755331	582541	7.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.22
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06304.D

Date : 04-MAR-2017 08:10

Client ID:

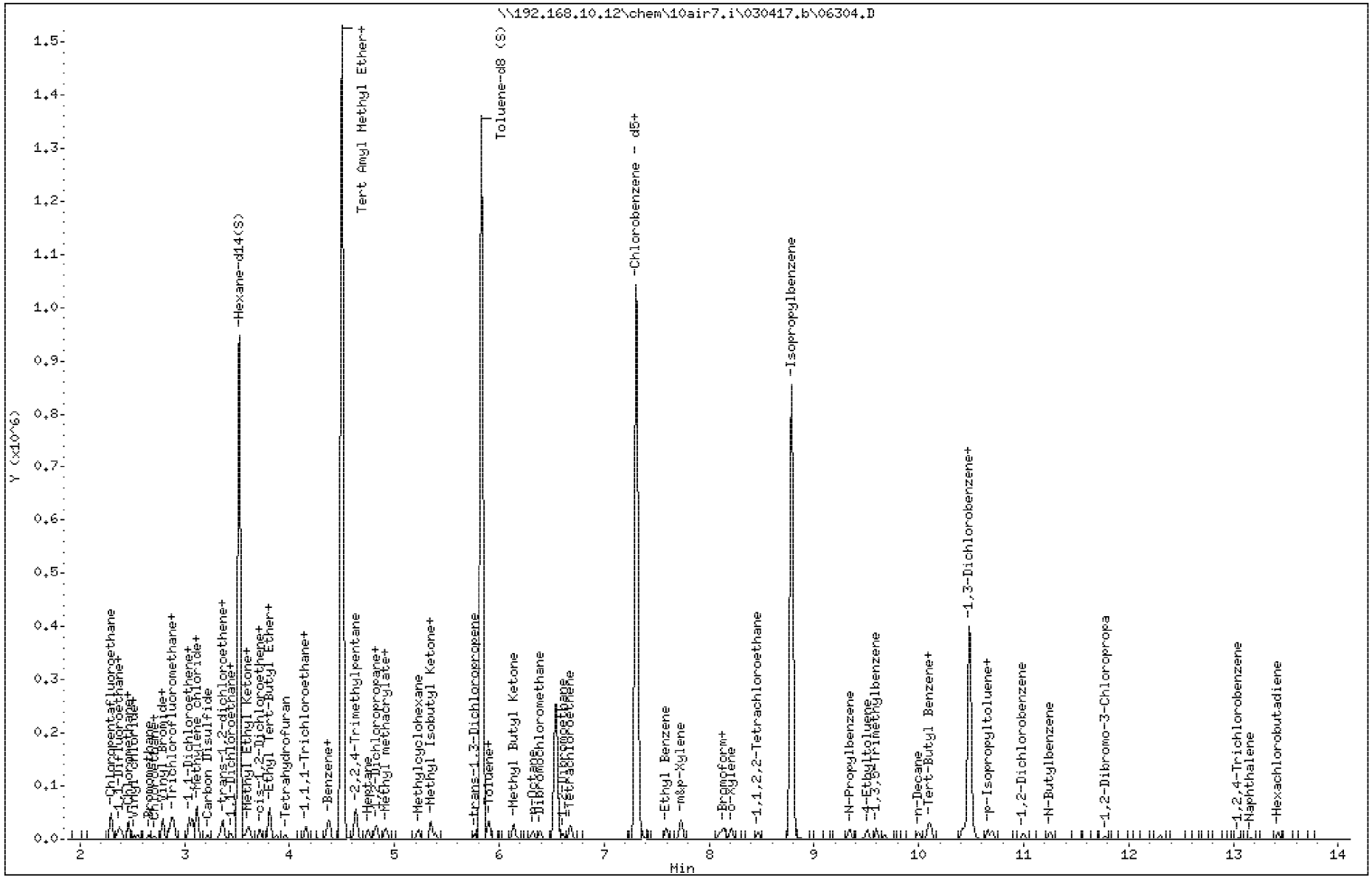
Instrument: 10air7.i

Sample Info:

Operator: MJL

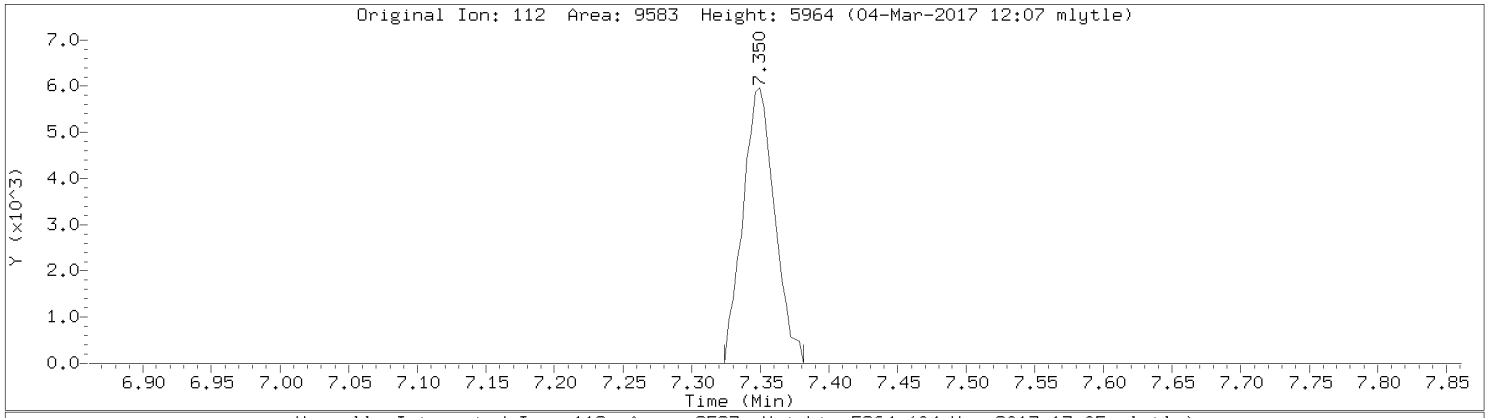
Column phase: J&W DB-5

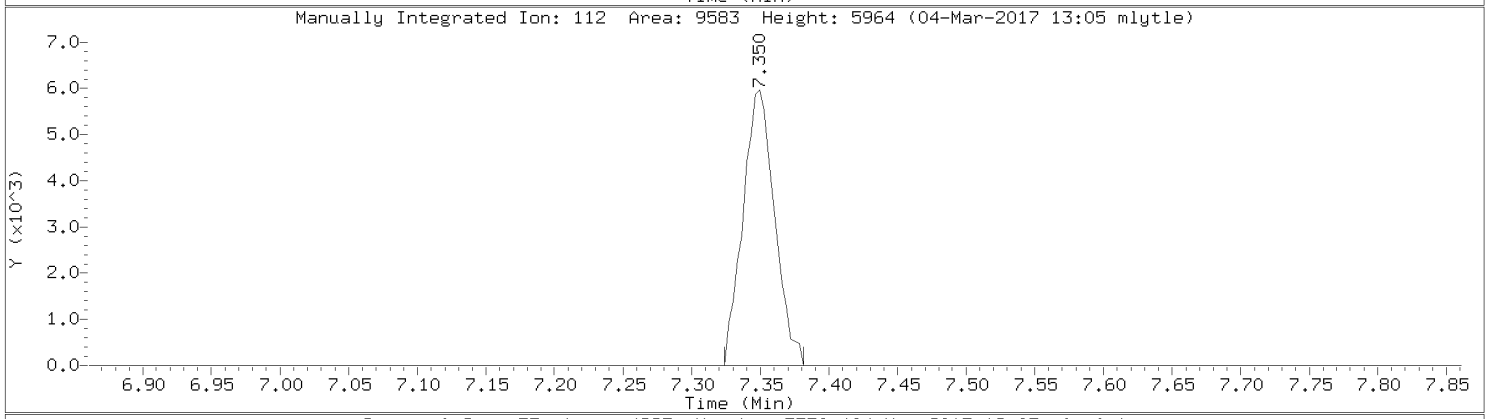
Column diameter: 0.32

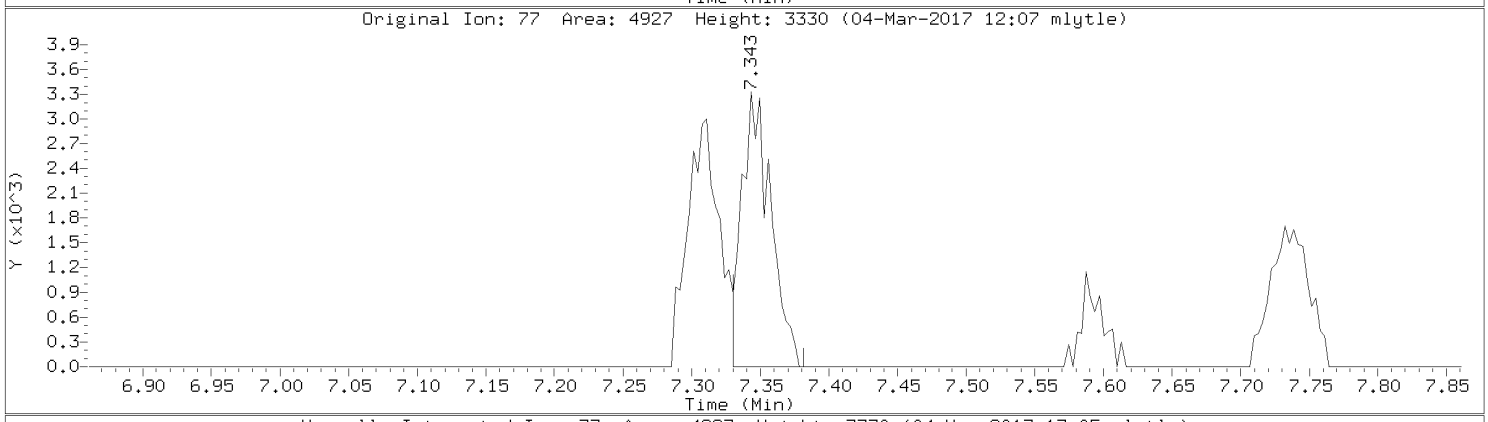


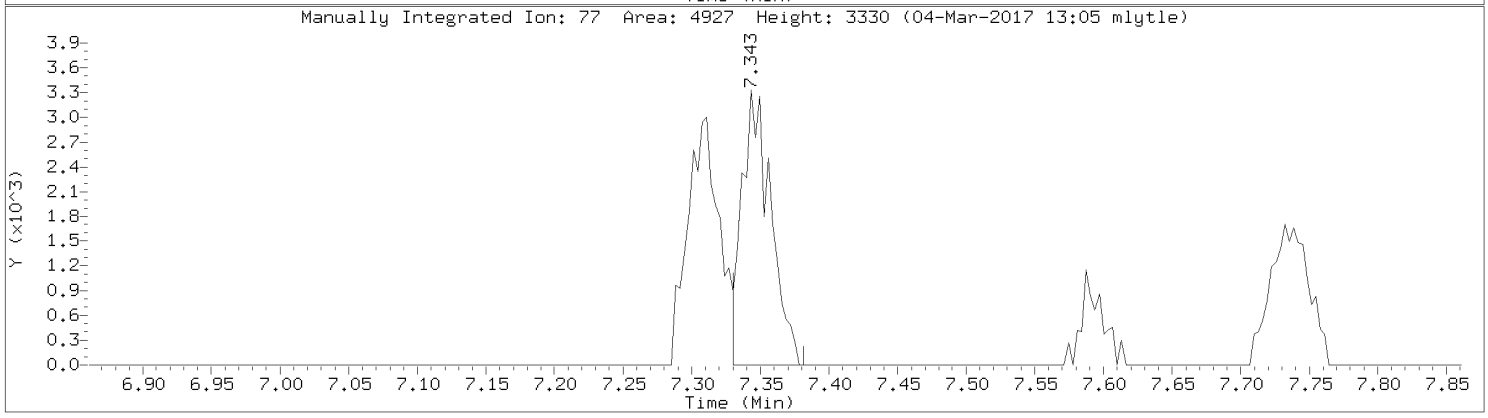
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Chlorobenzene
CAS Number: 108-90-7

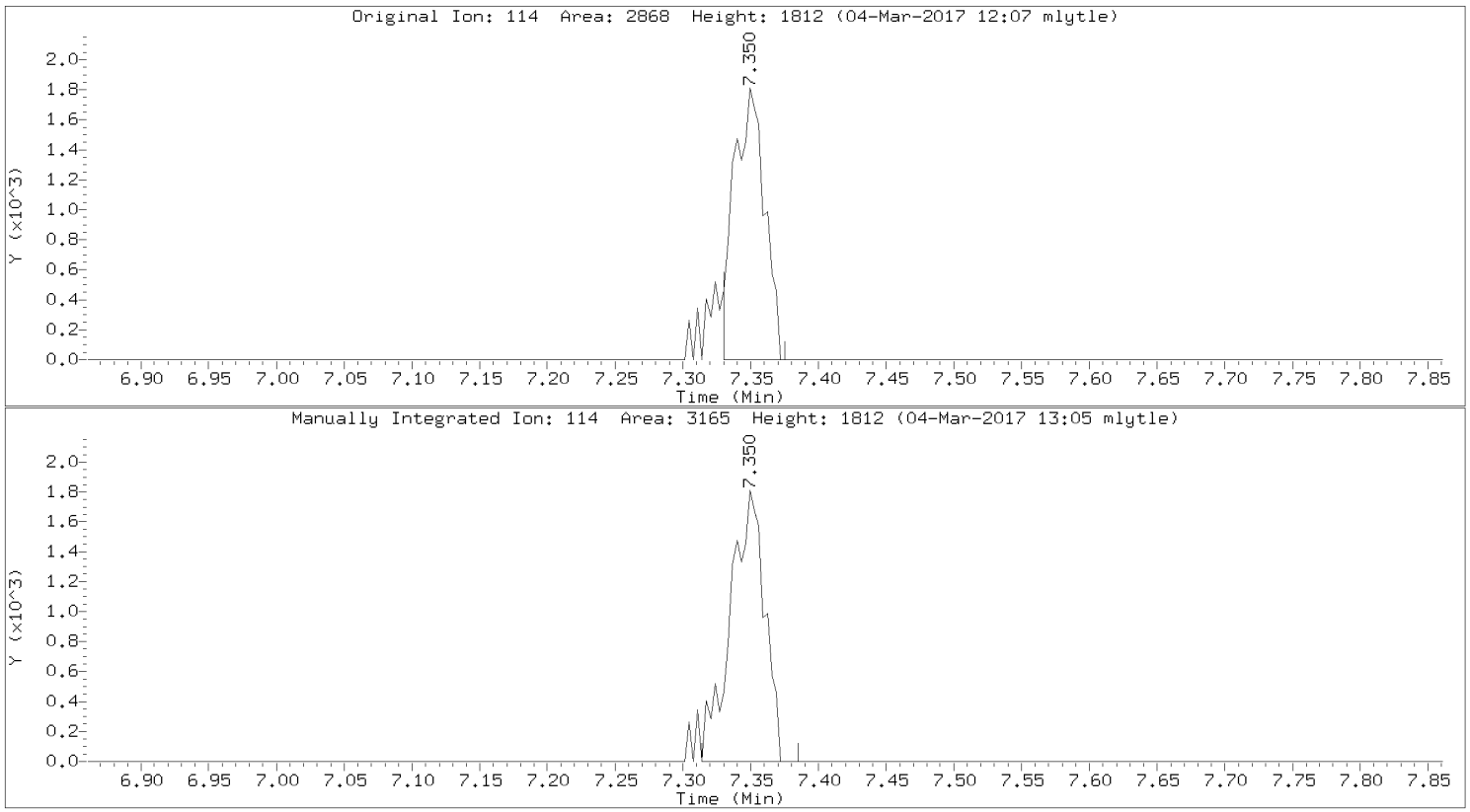






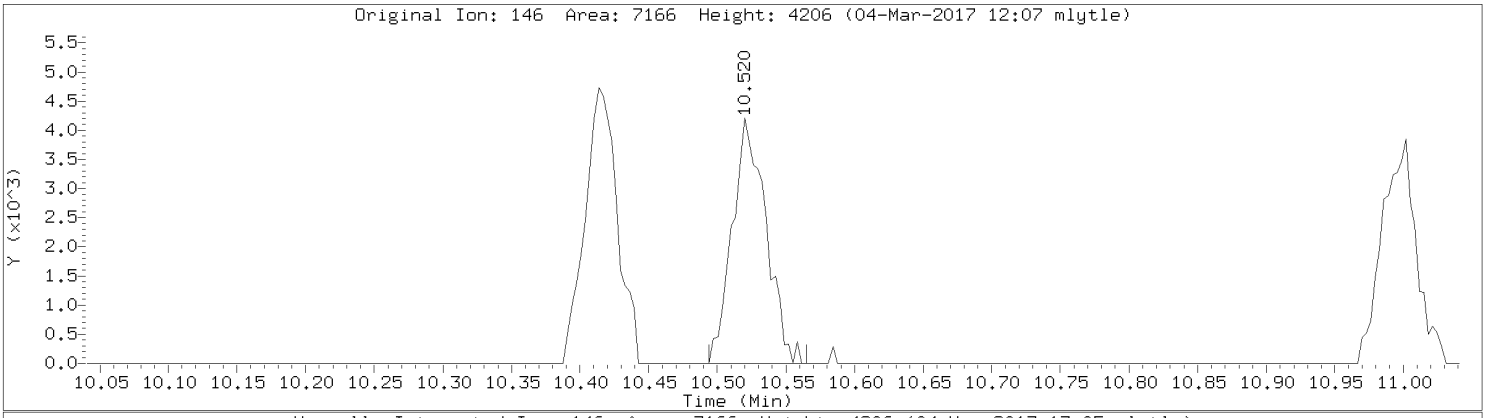


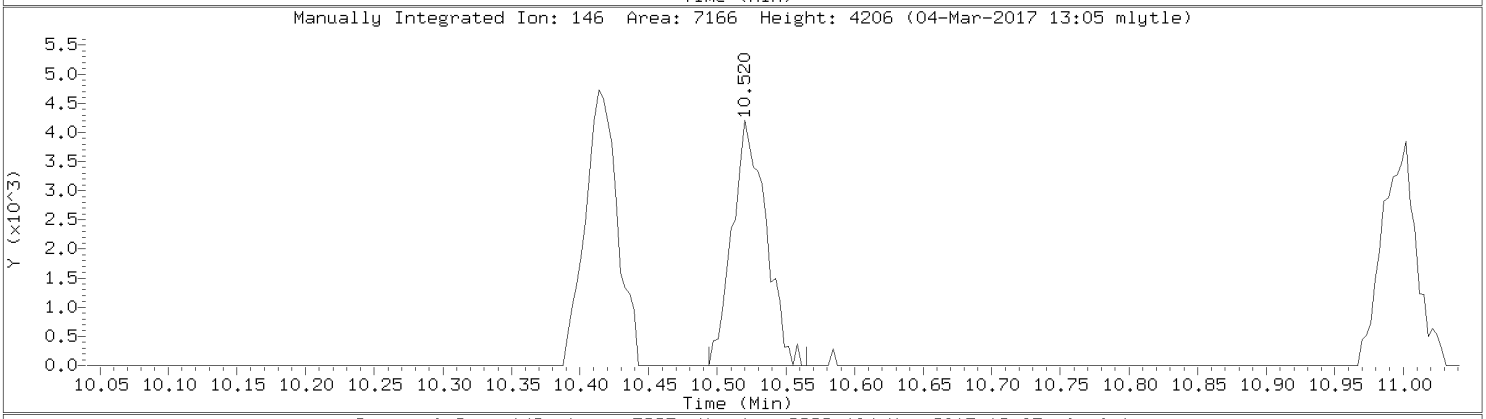
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

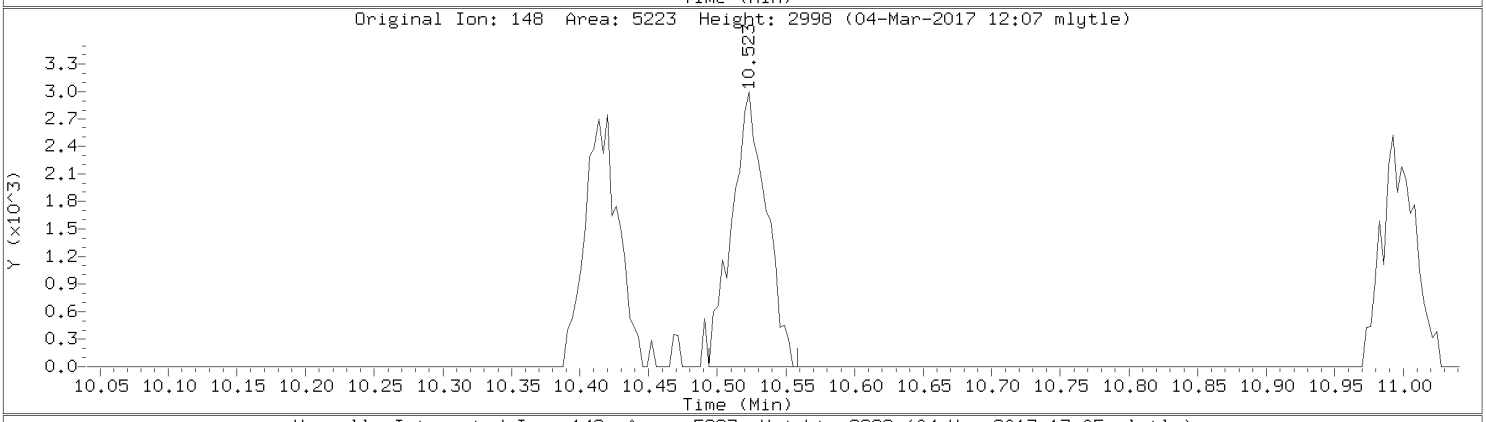


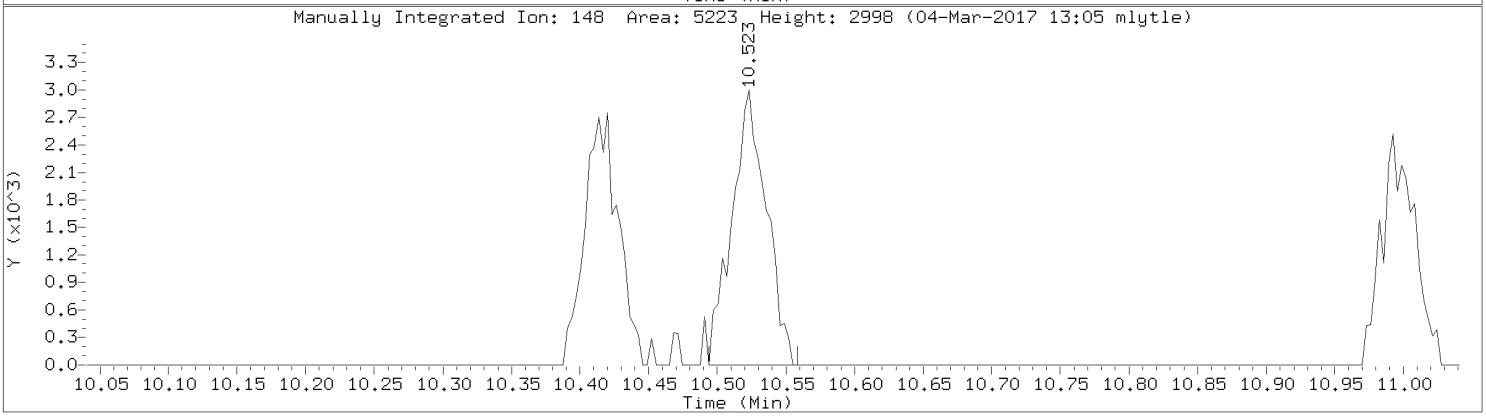
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

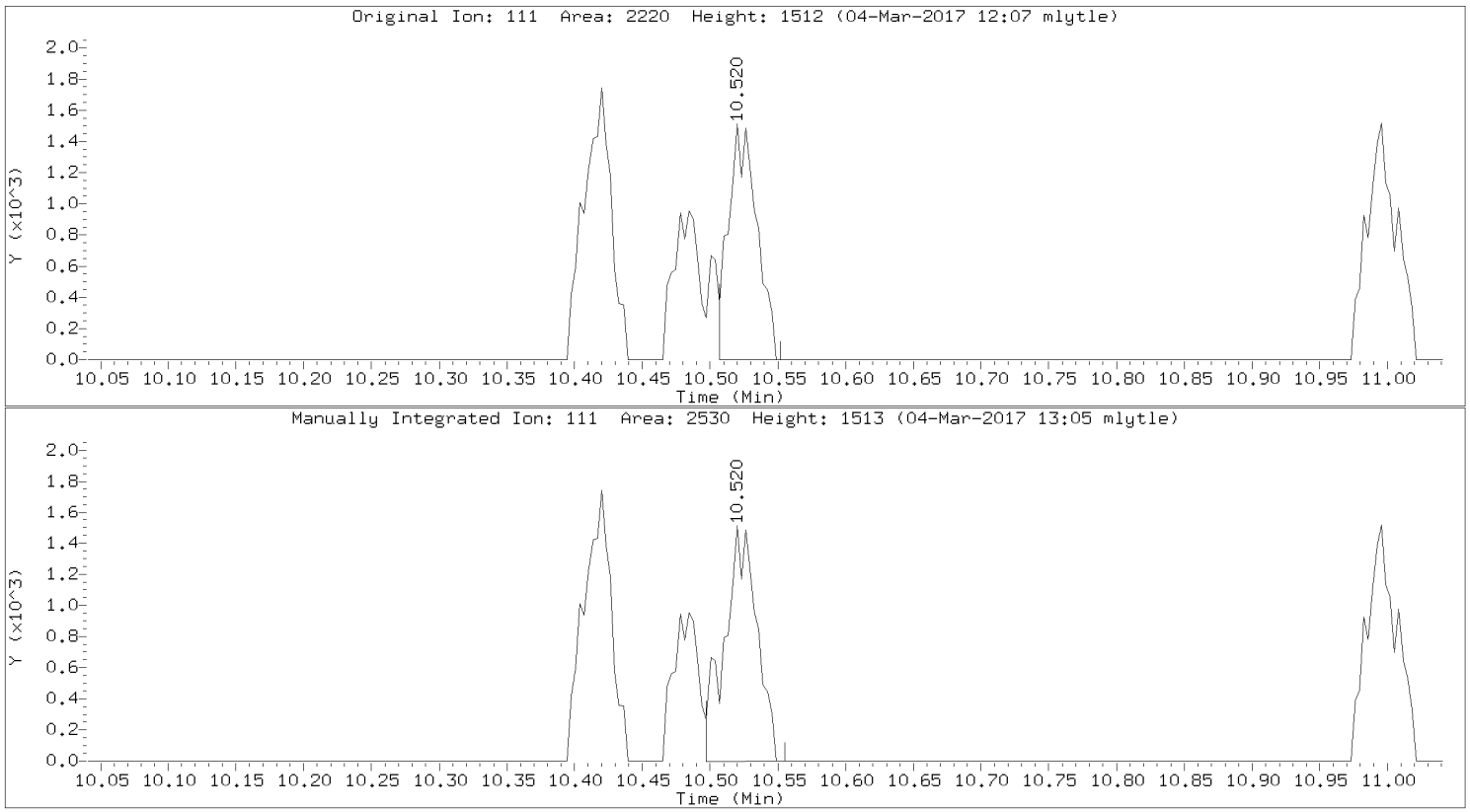






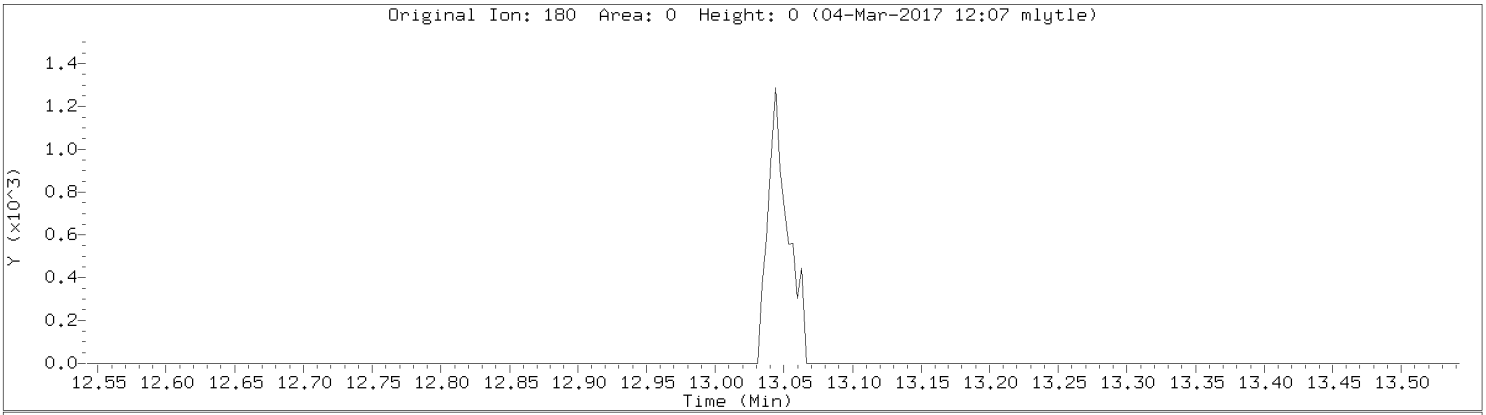


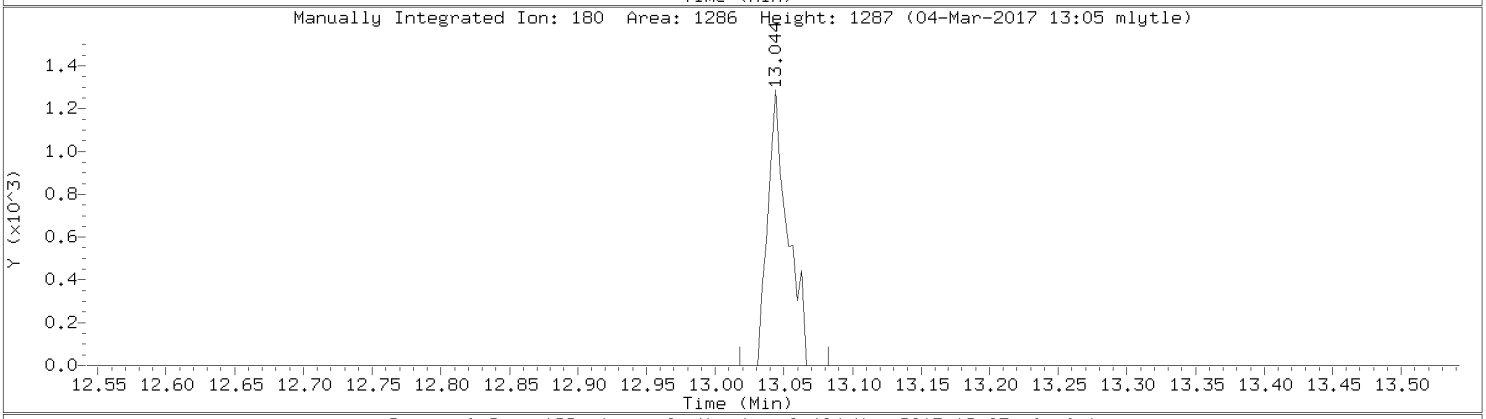
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

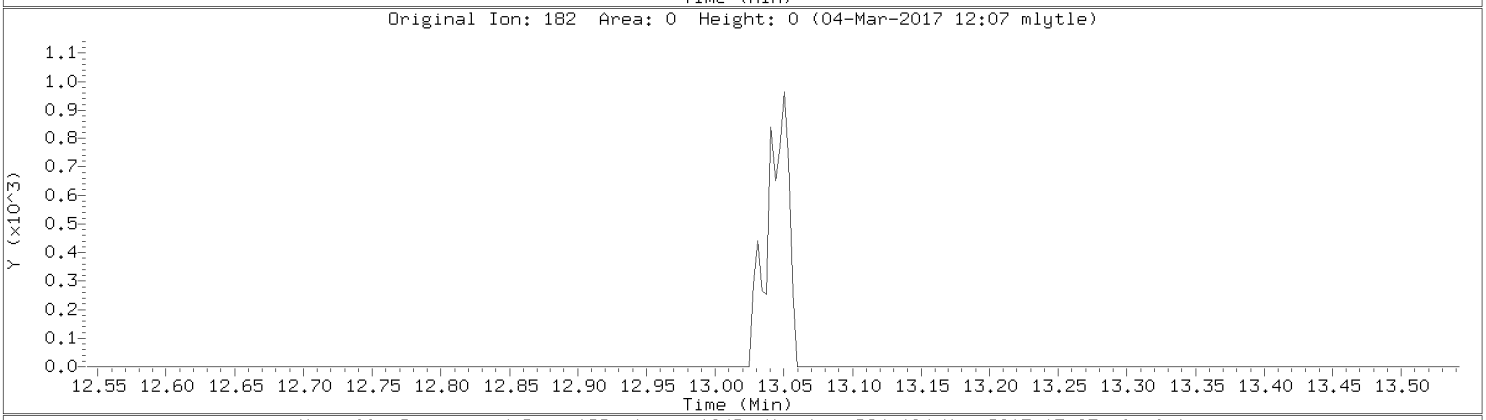


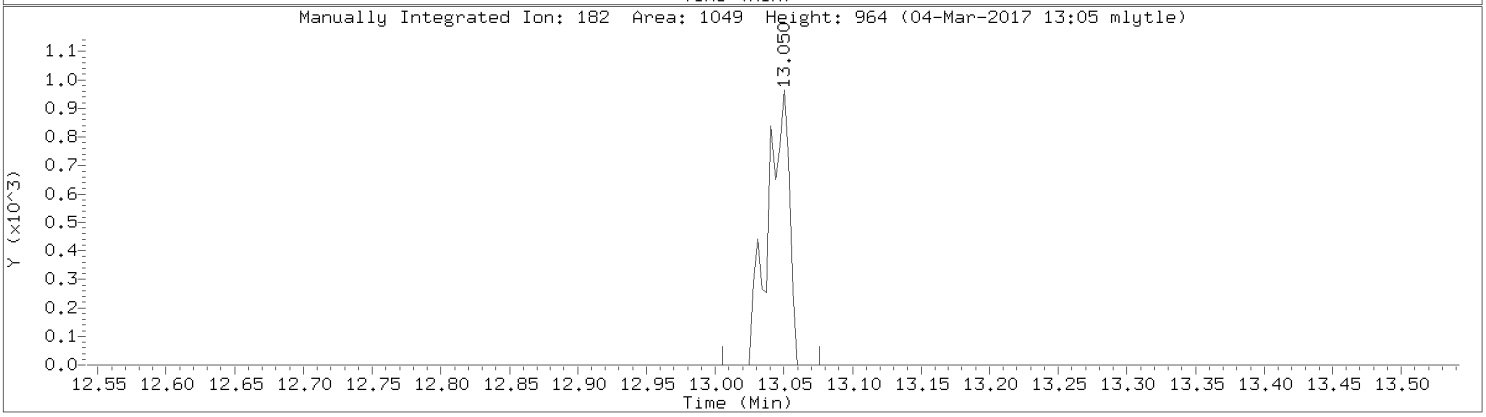
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

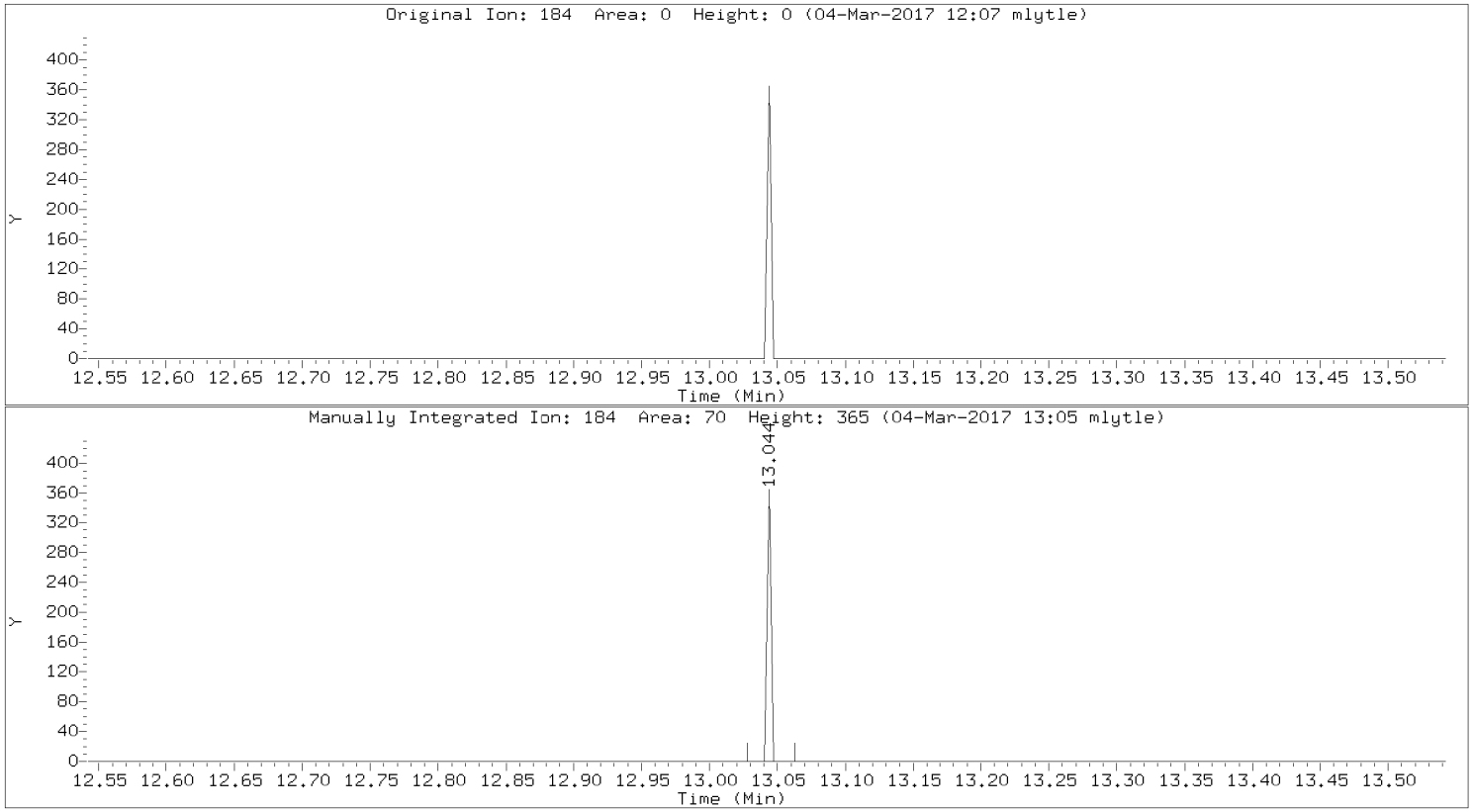






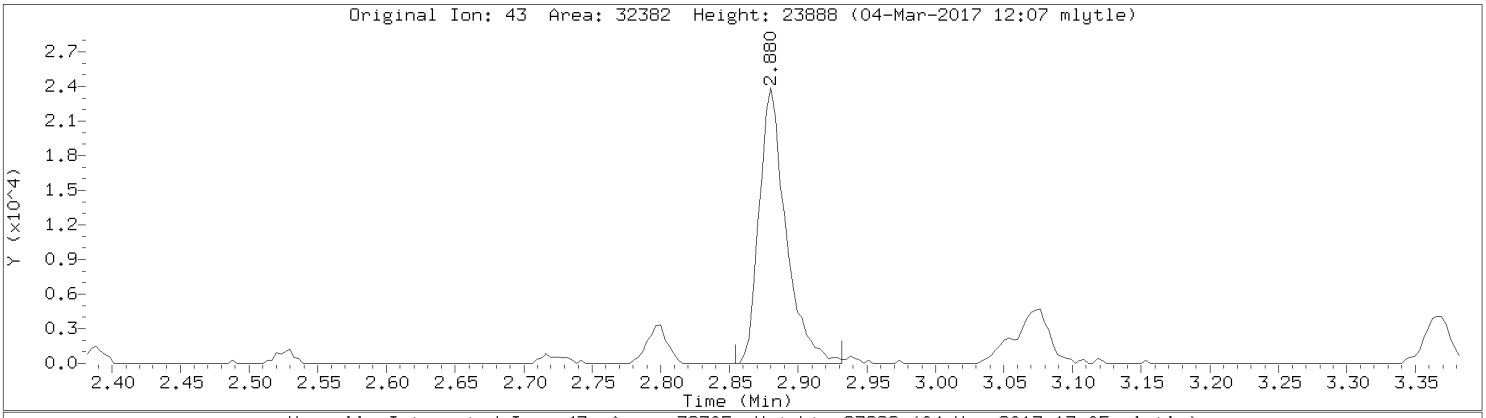


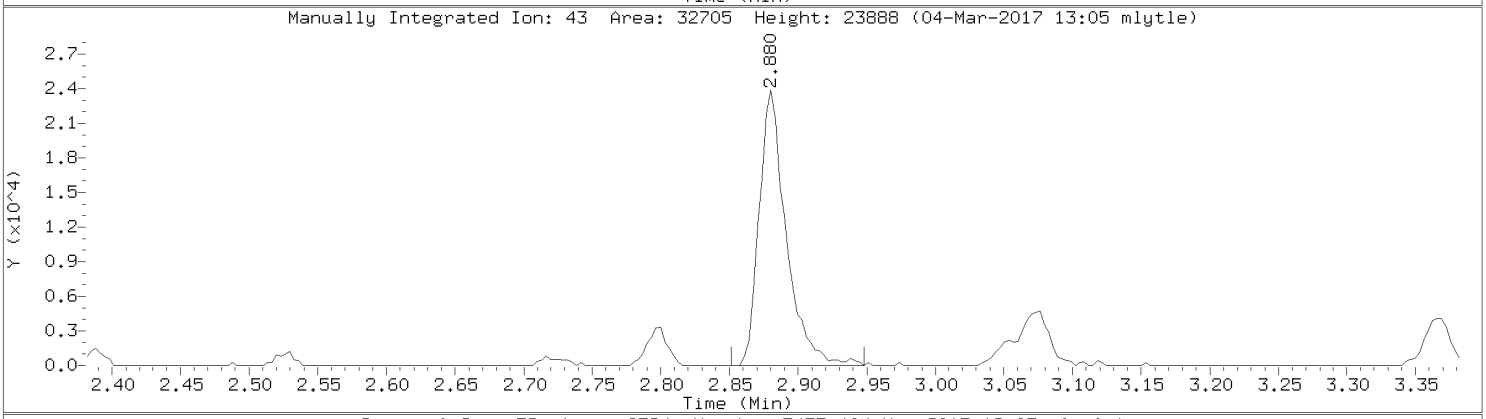
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

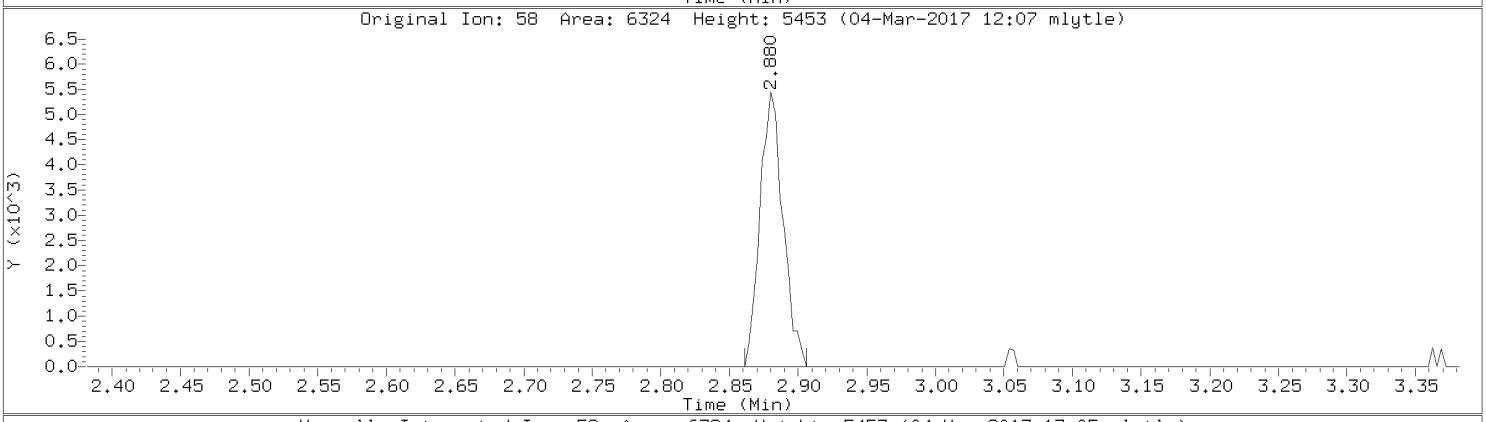


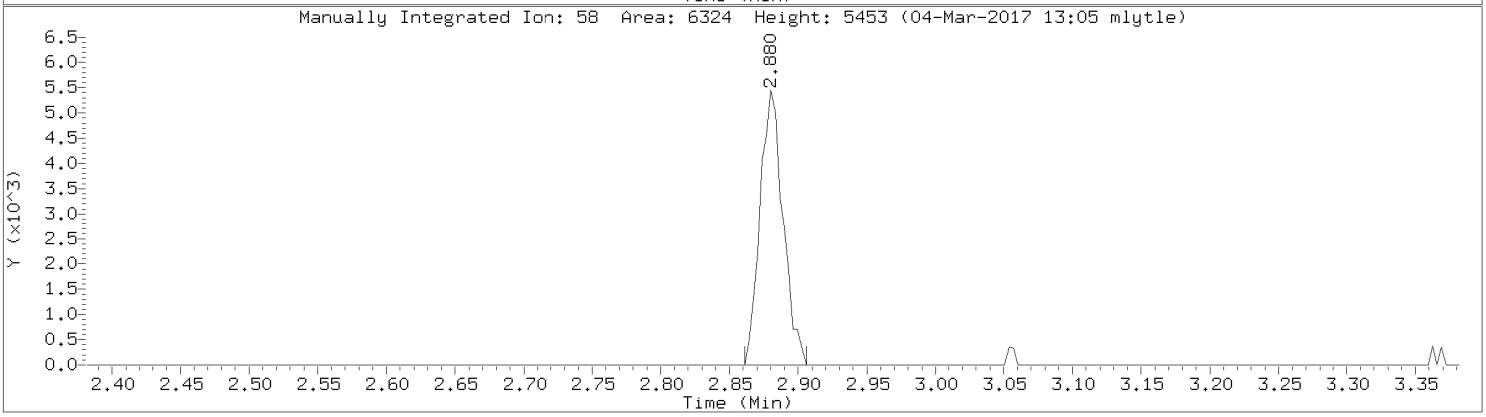
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Acetone
CAS Number: 67-64-1



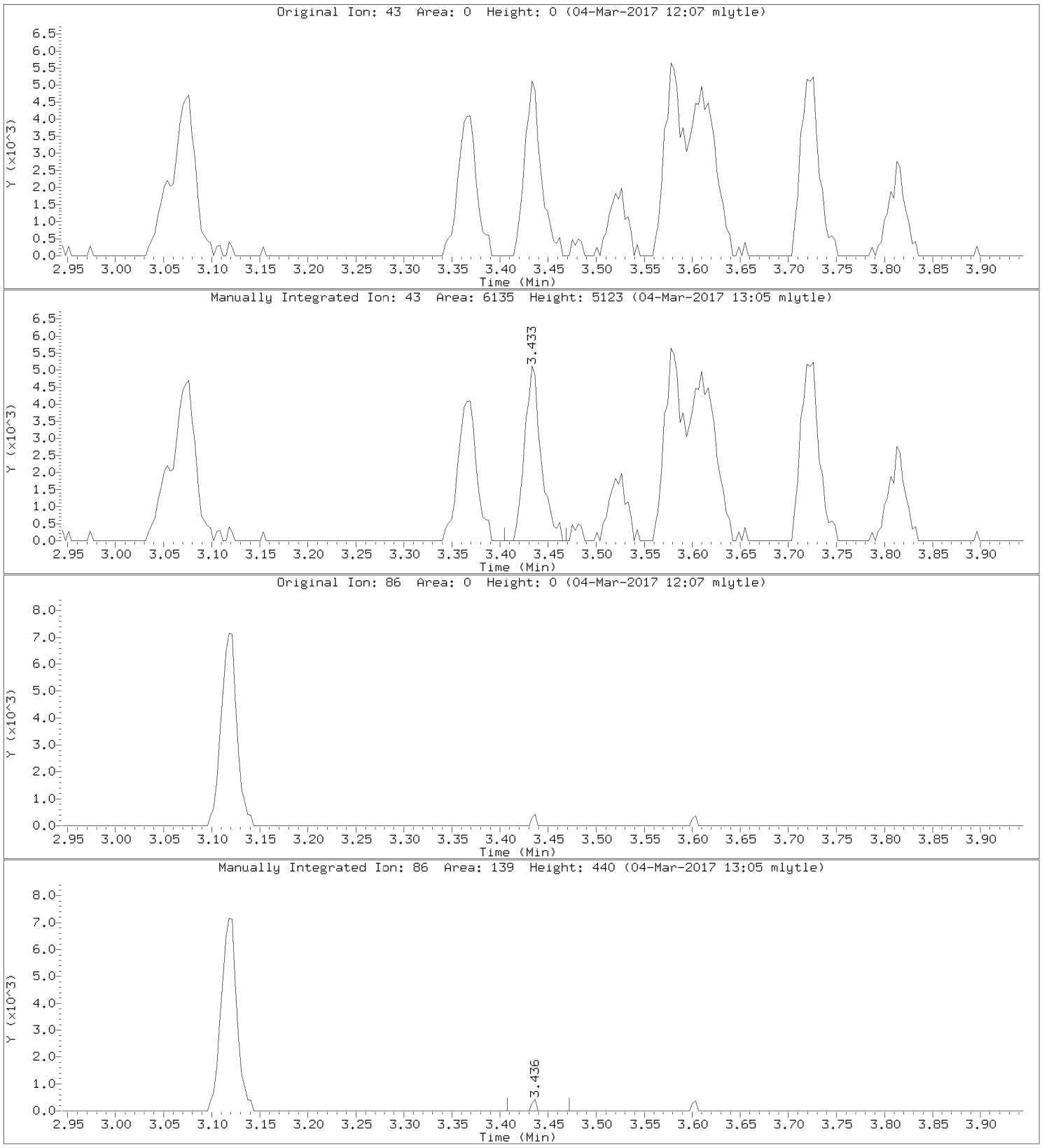






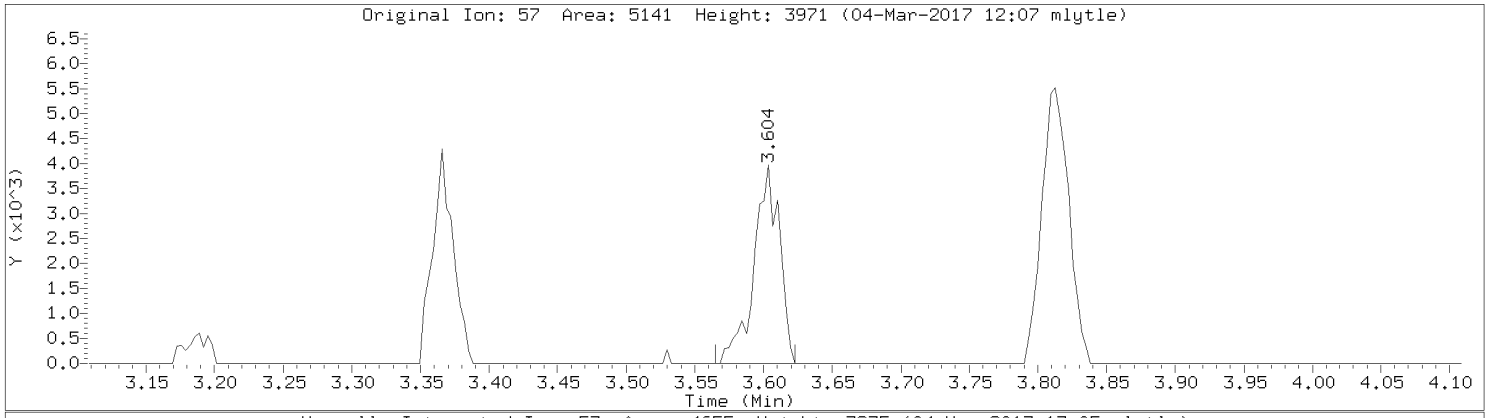
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

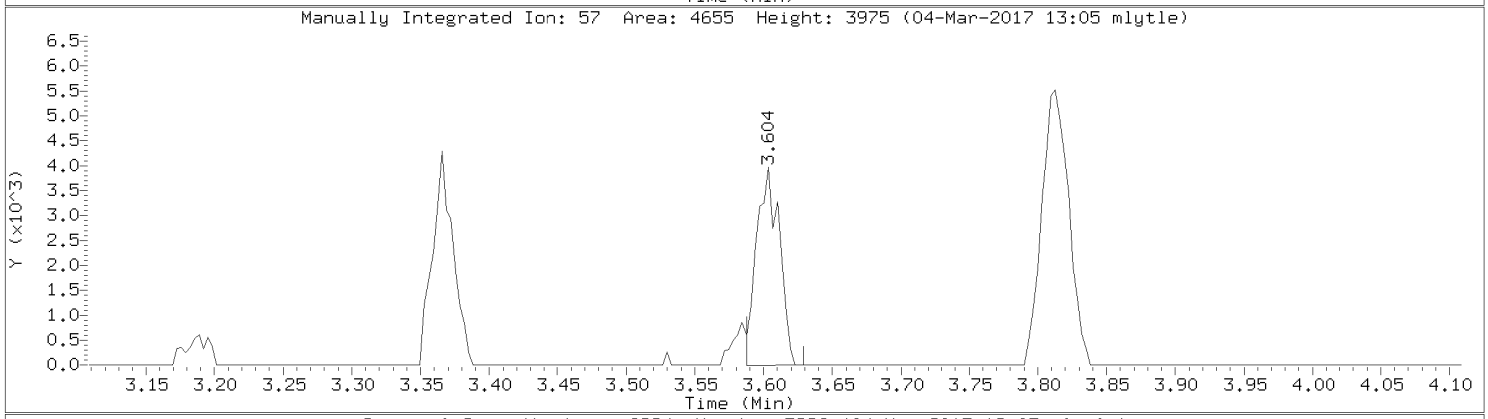
Compound: Vinyl Acetate
CAS Number: 108-05-4

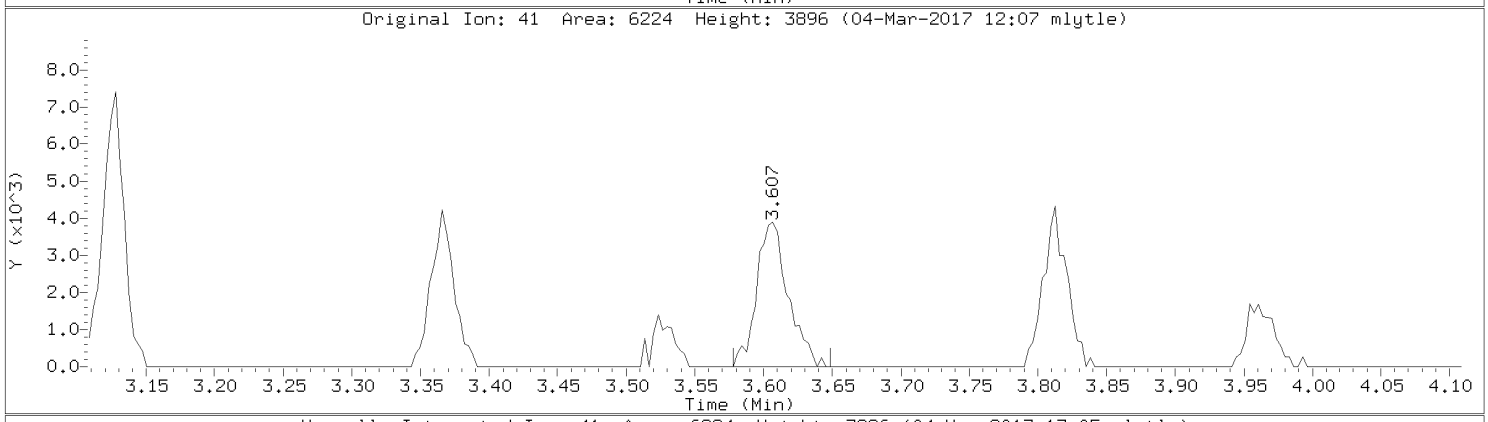


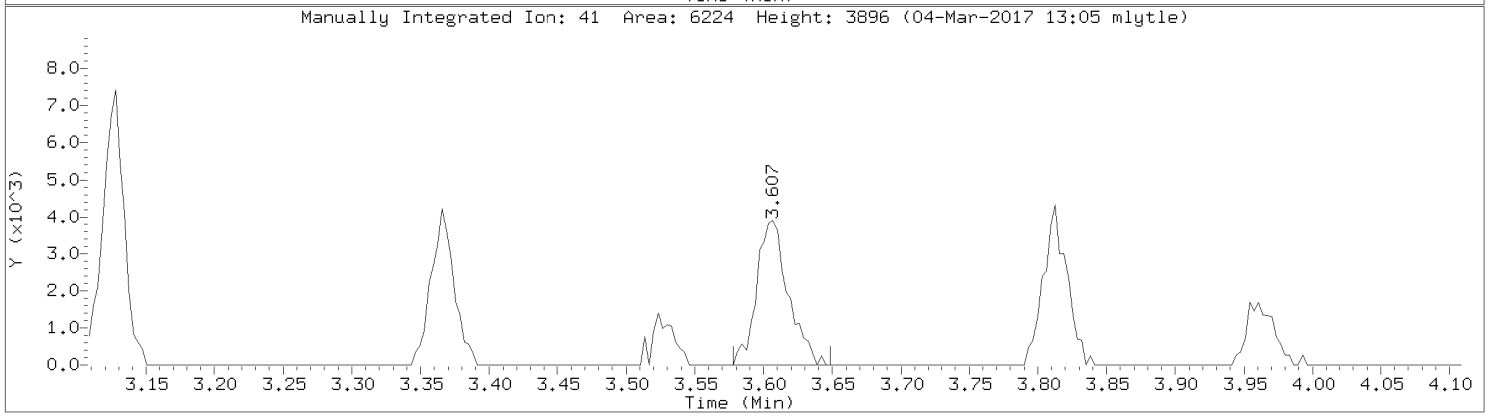
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: n-Hexane
CAS Number: 110-54-3

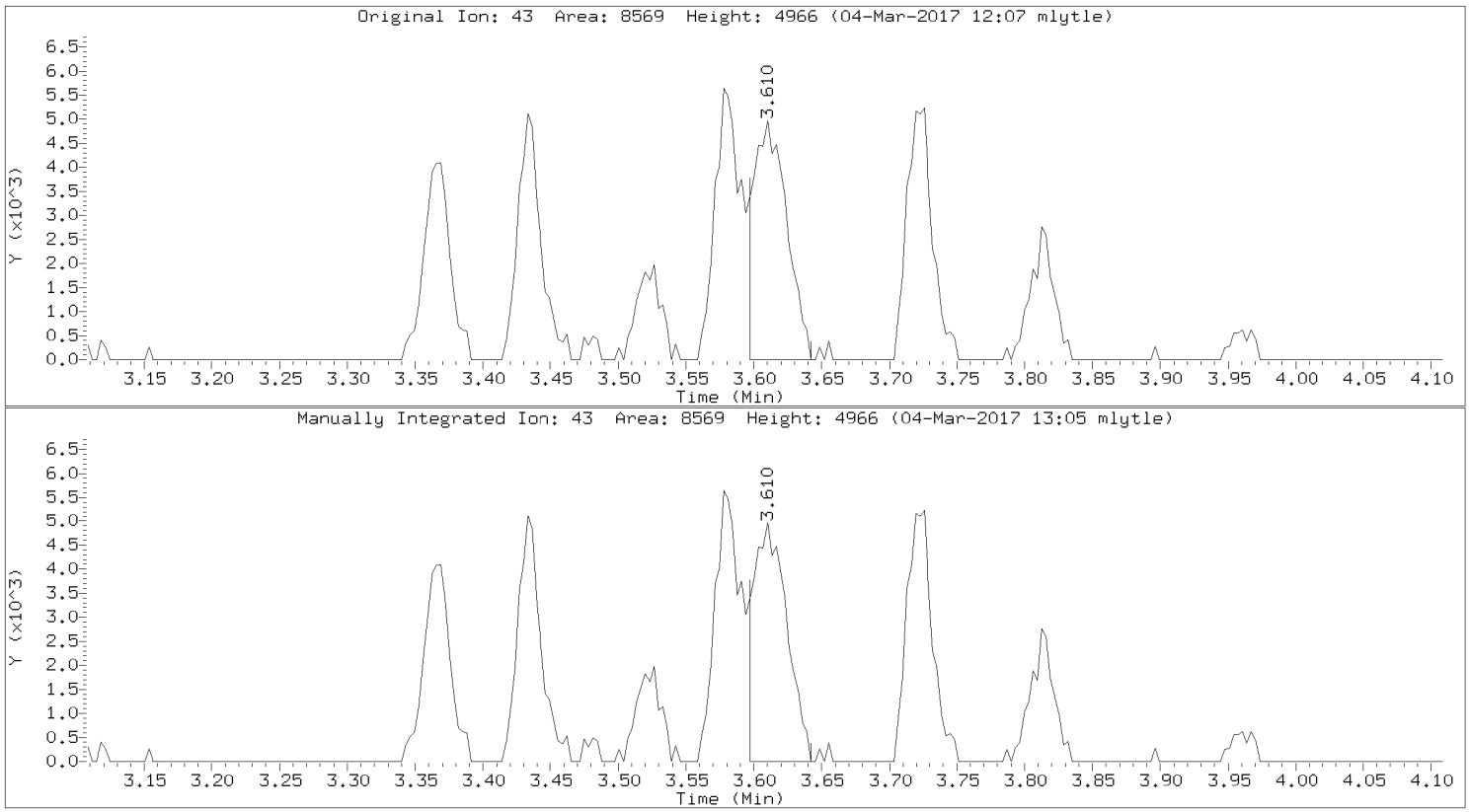






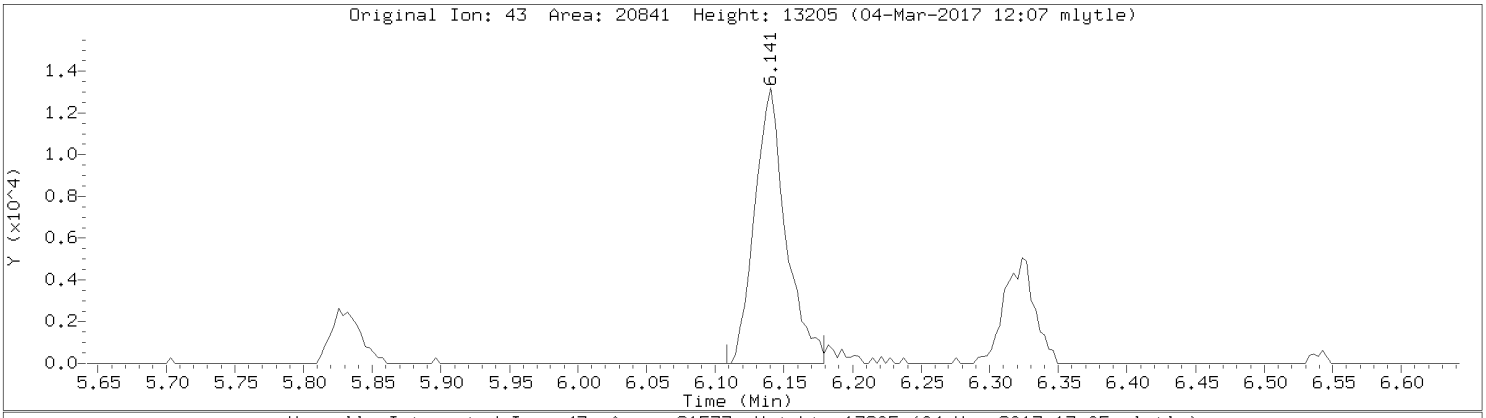


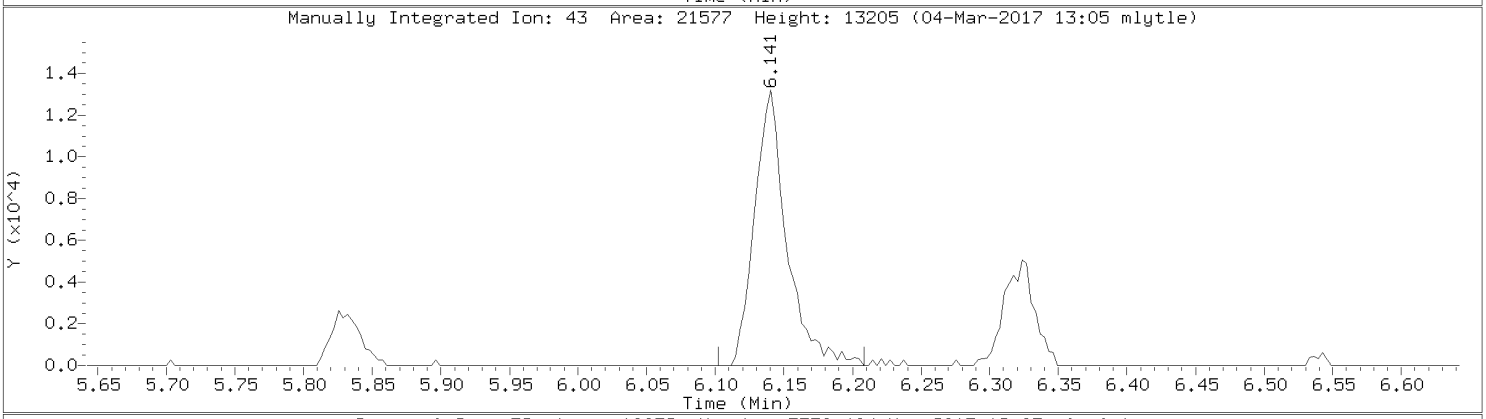
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

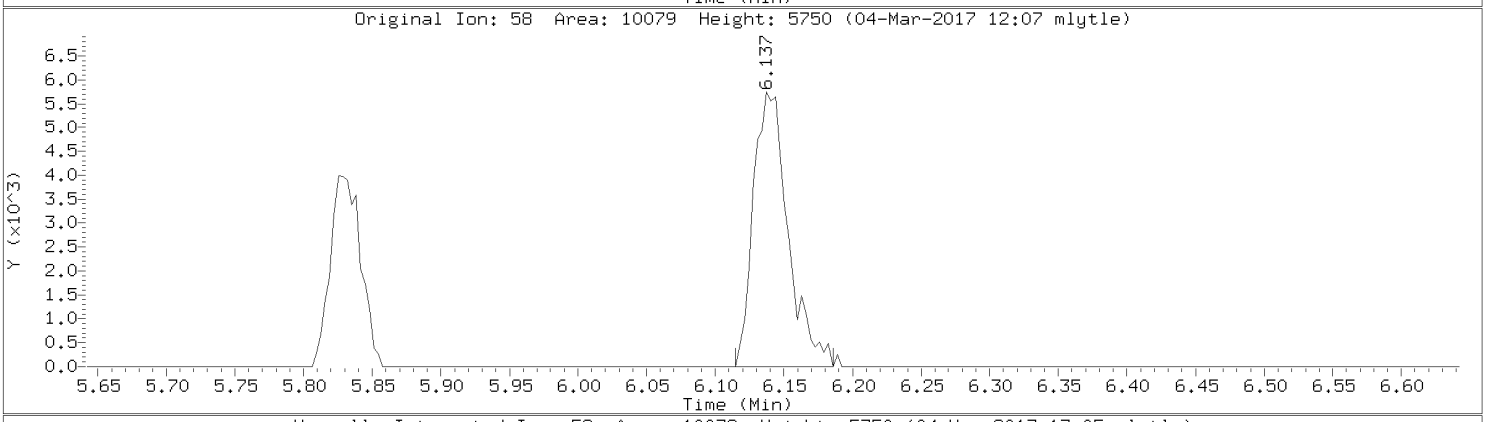


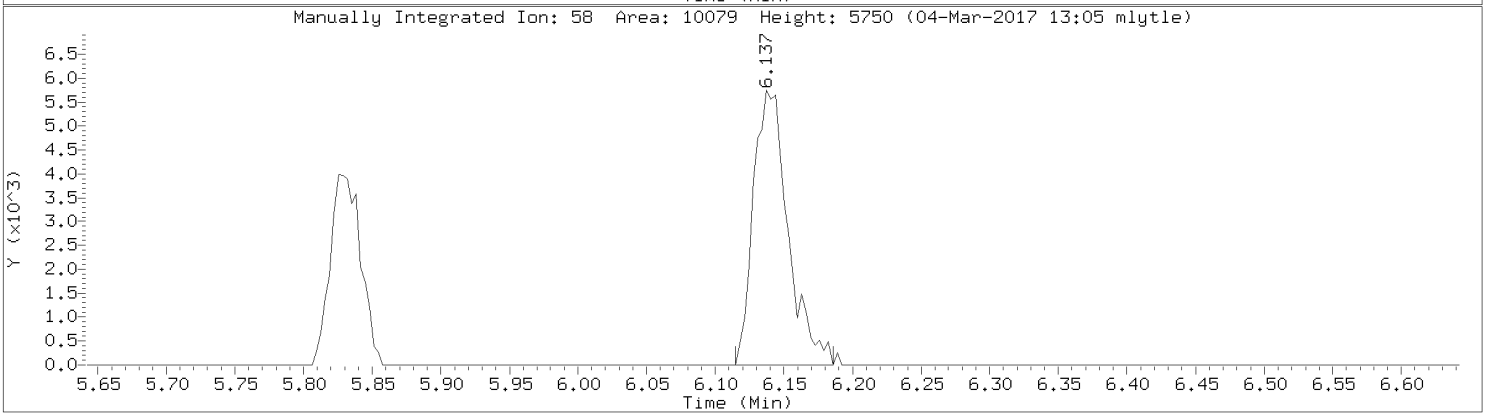
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Methyl Butyl Ketone
CAS Number: 591-78-6



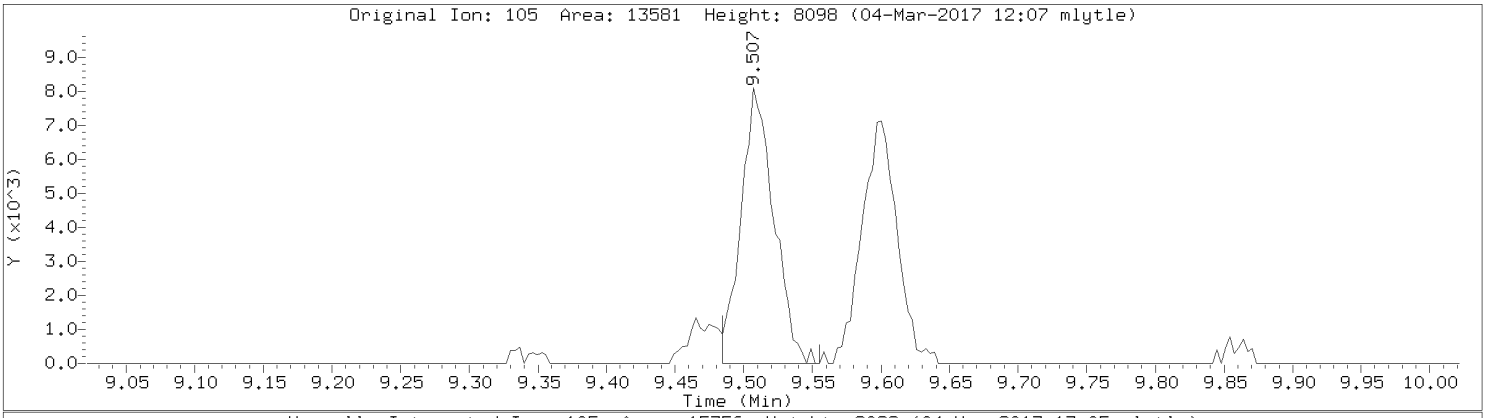


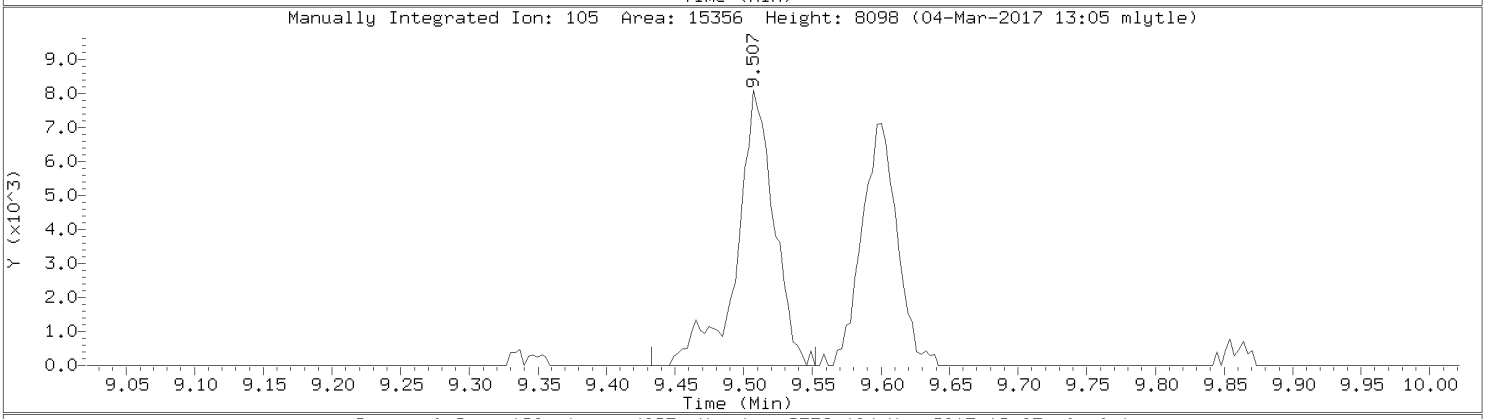


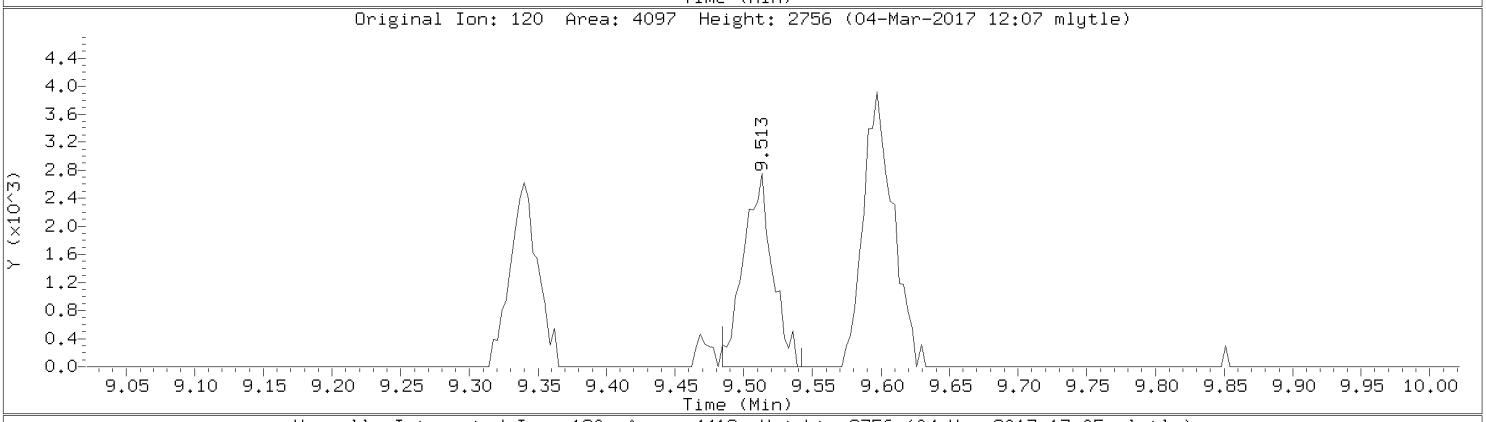


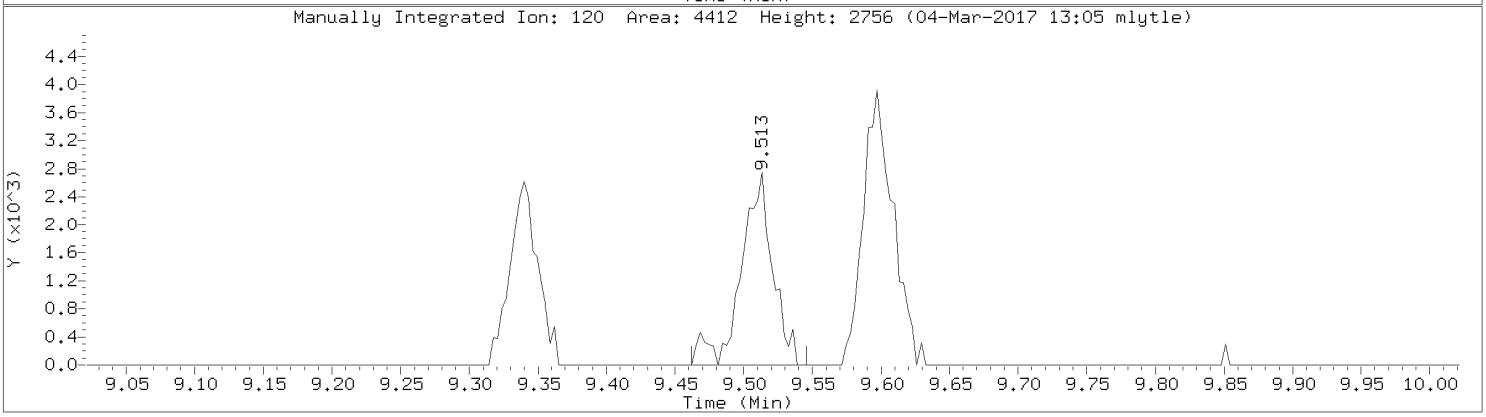
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

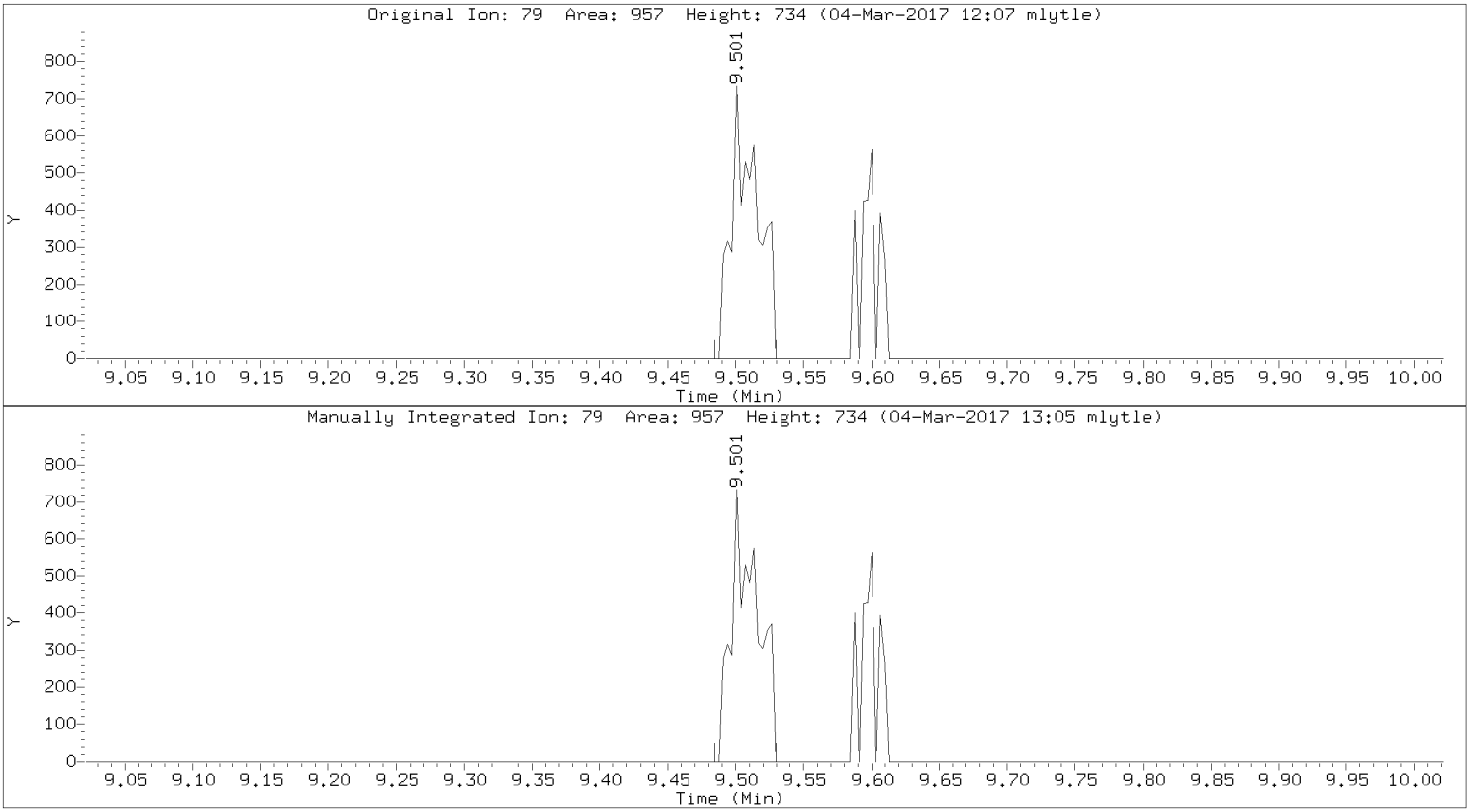






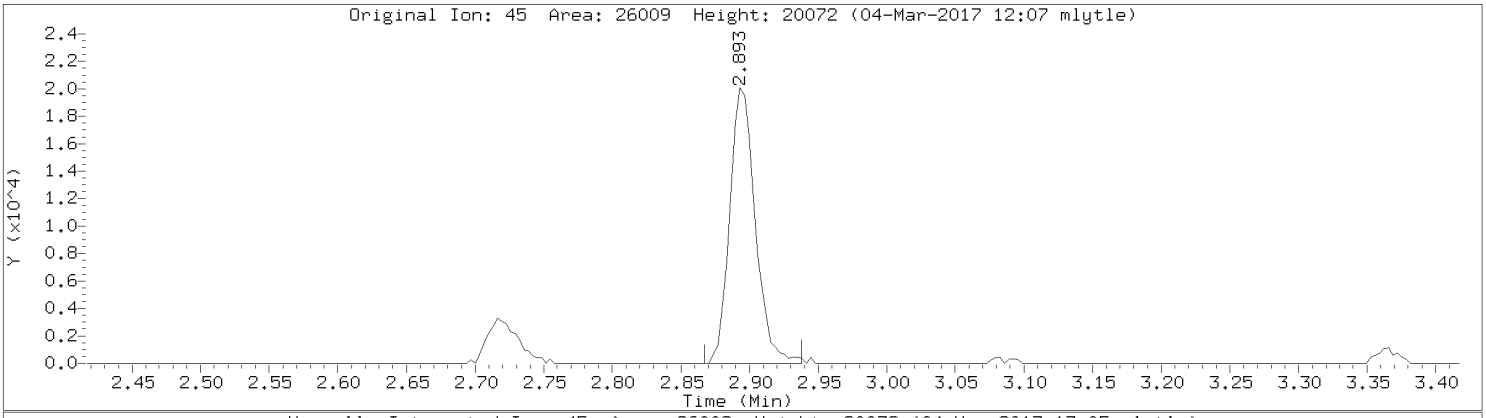


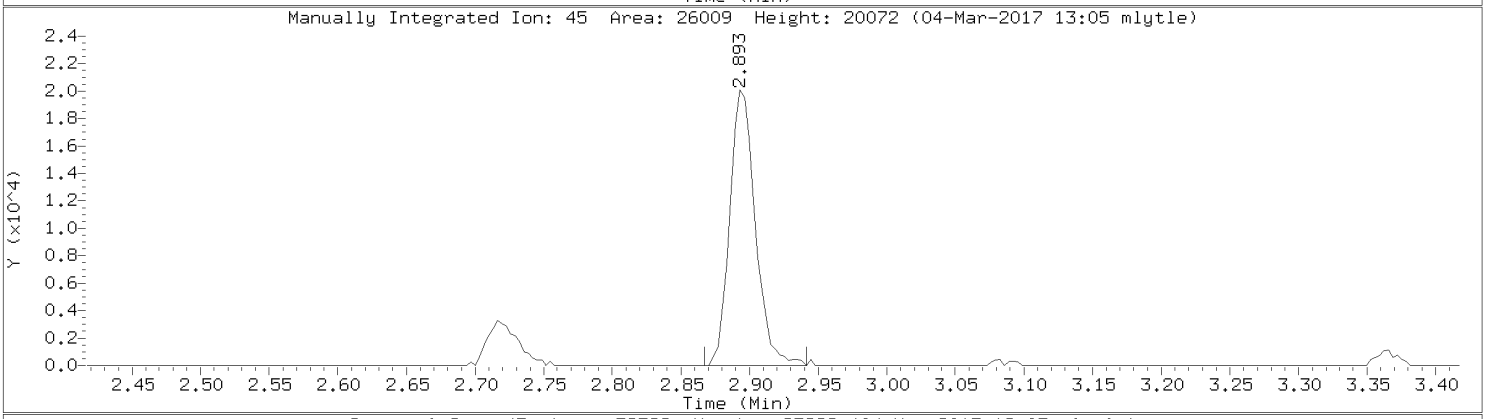
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

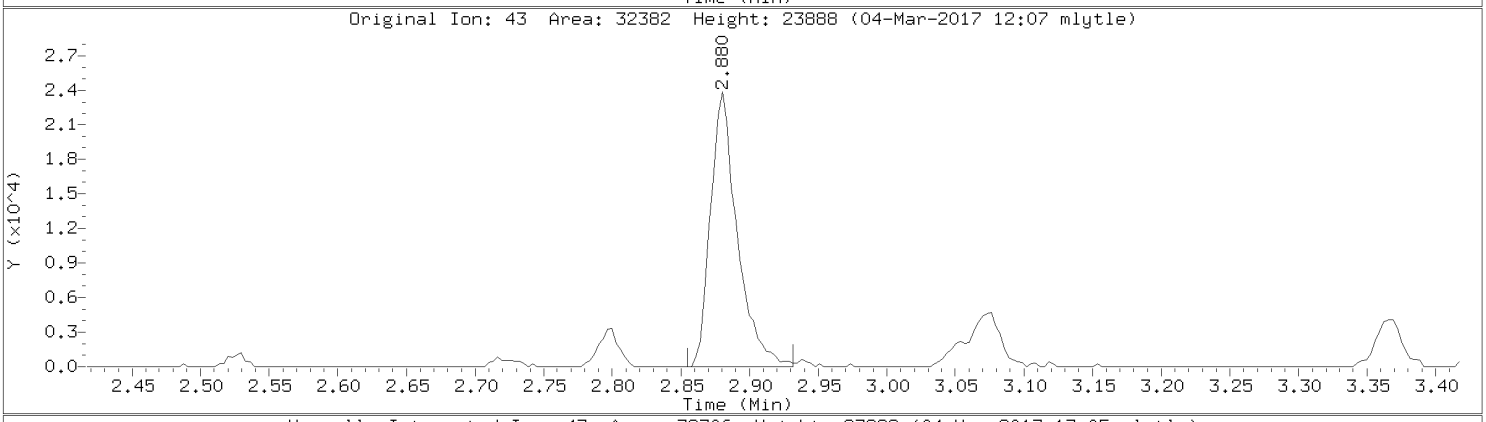


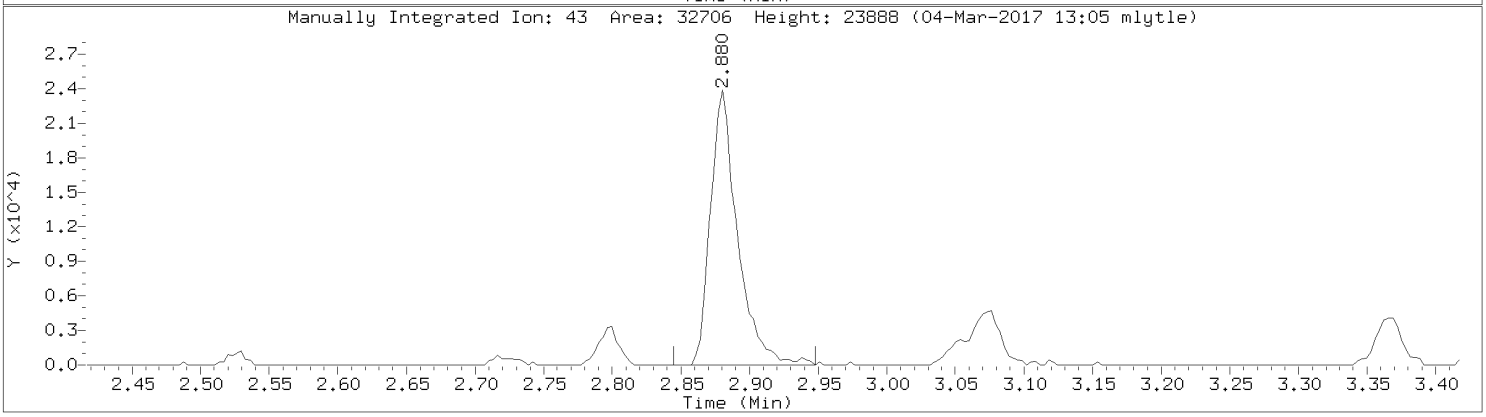
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



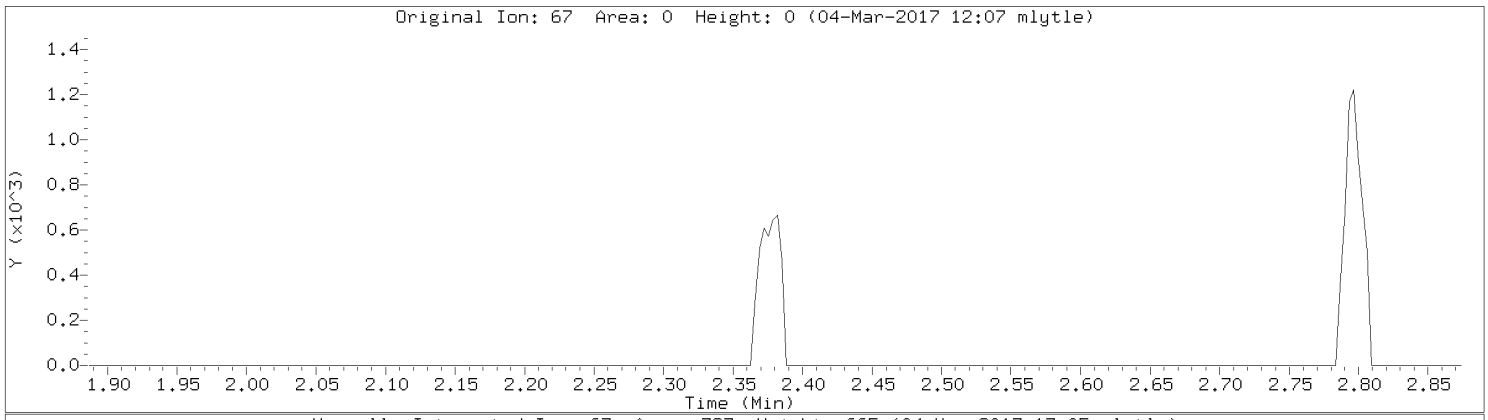


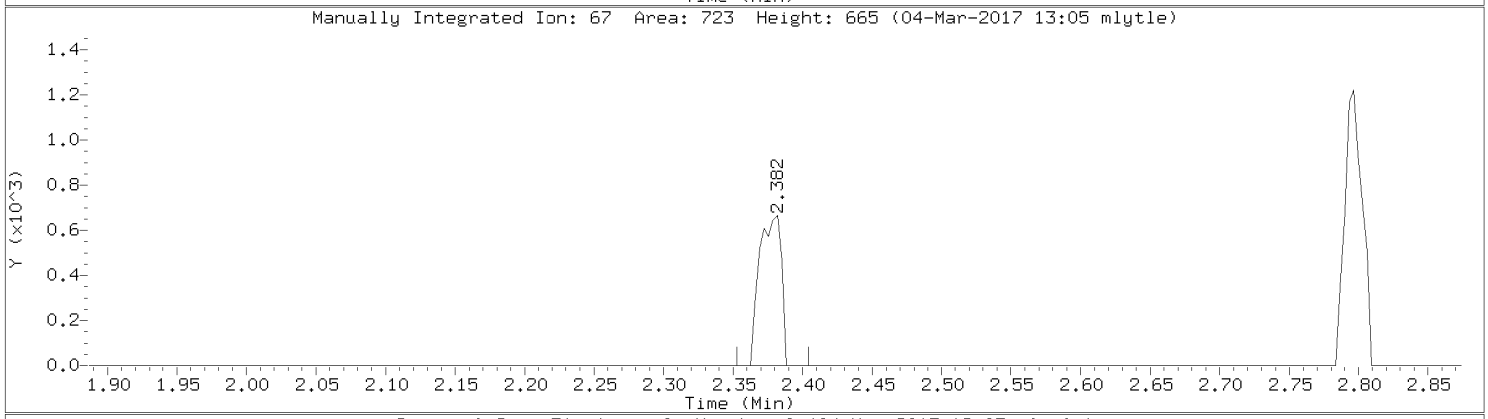


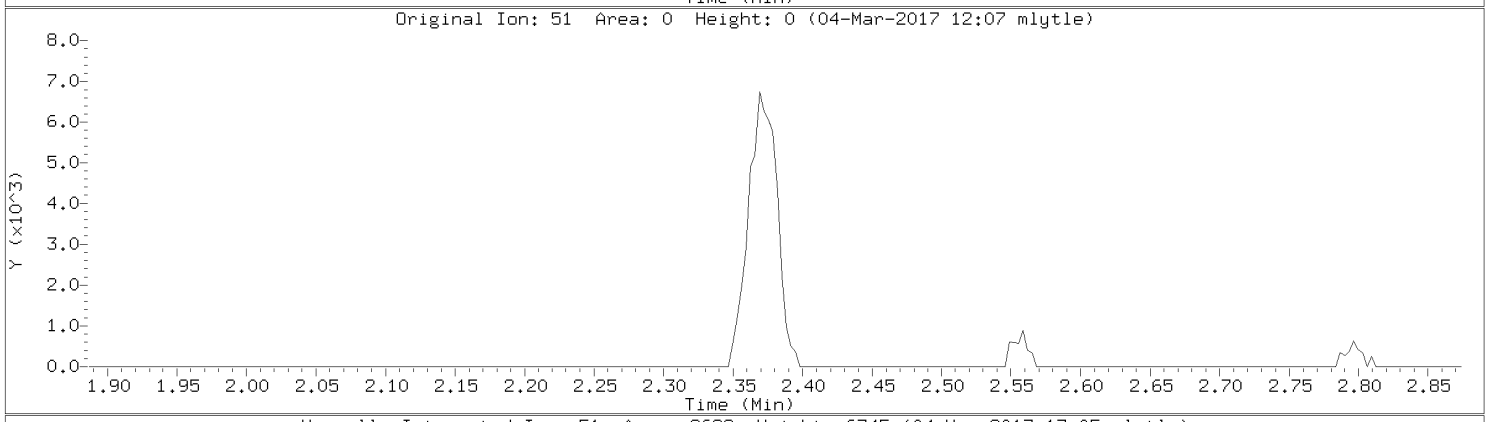


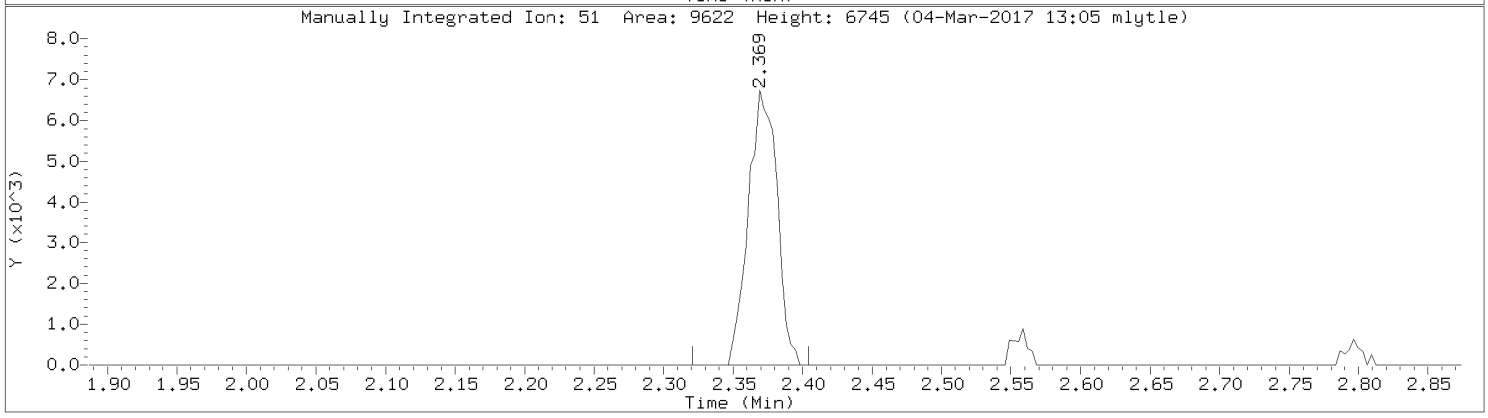
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

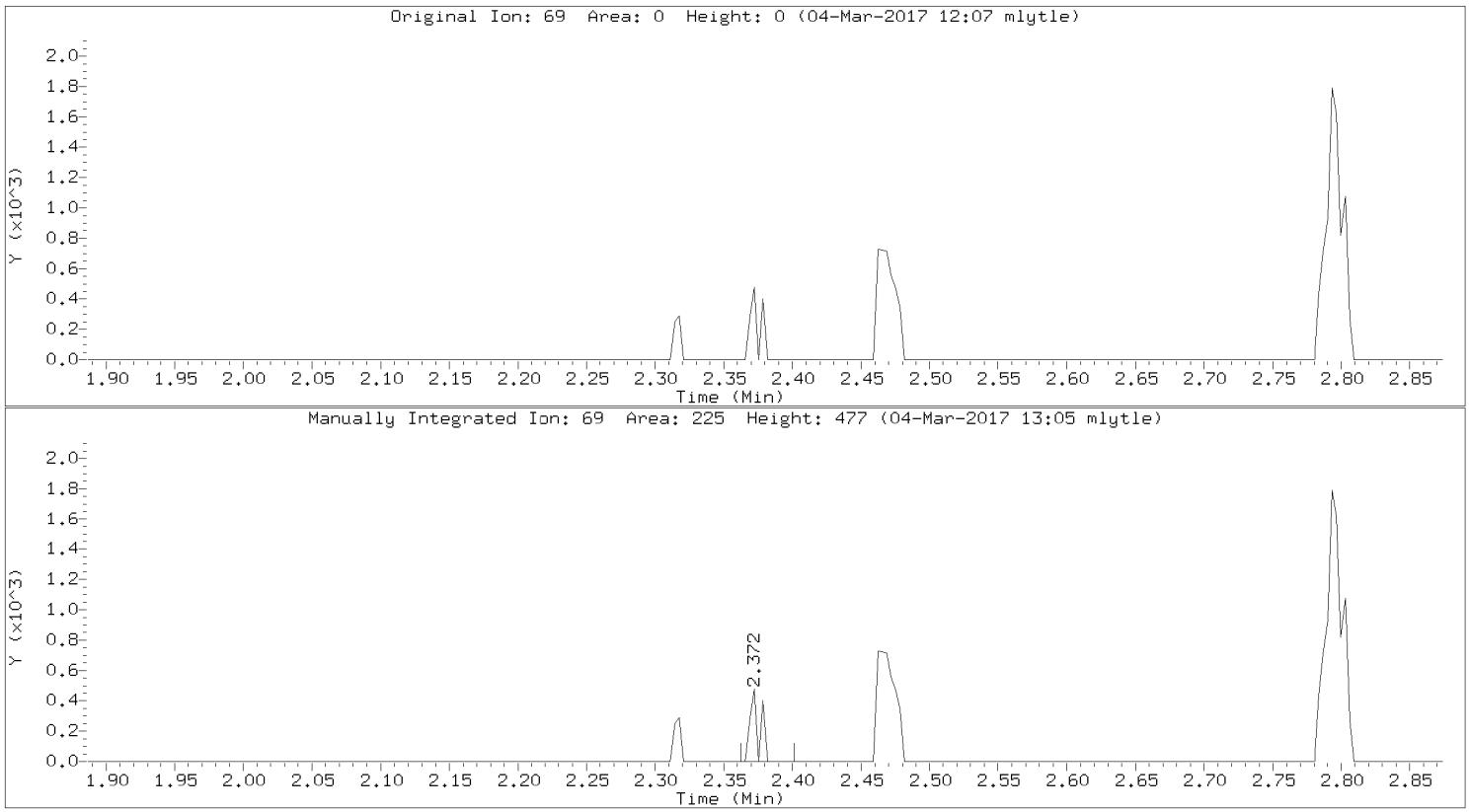






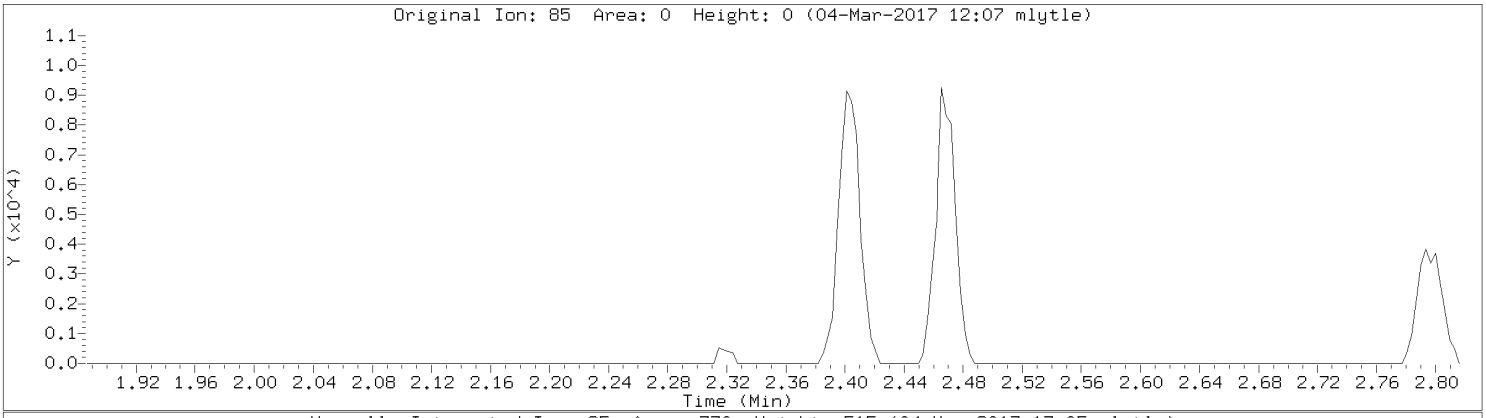


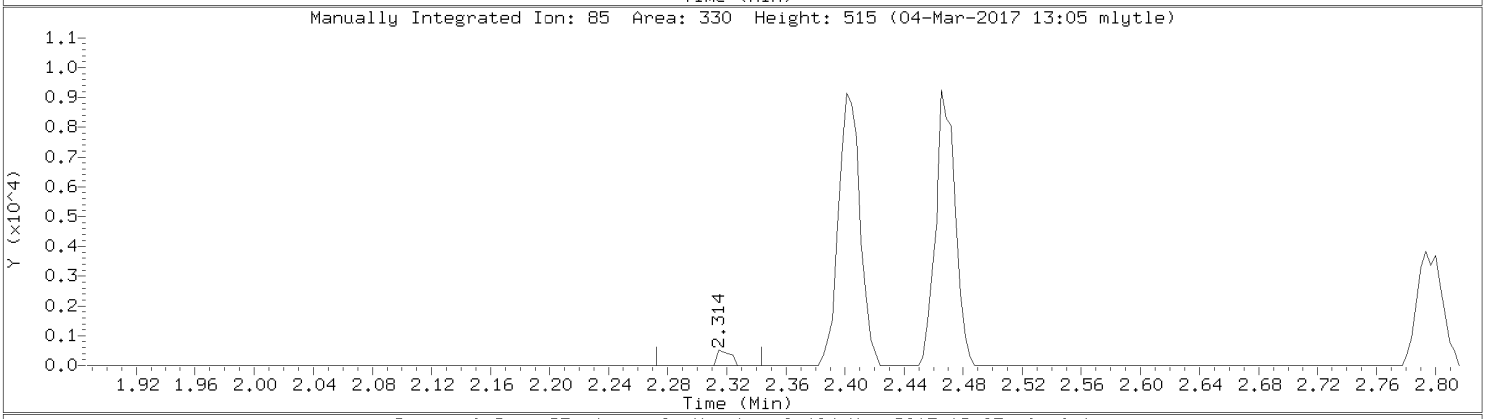
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

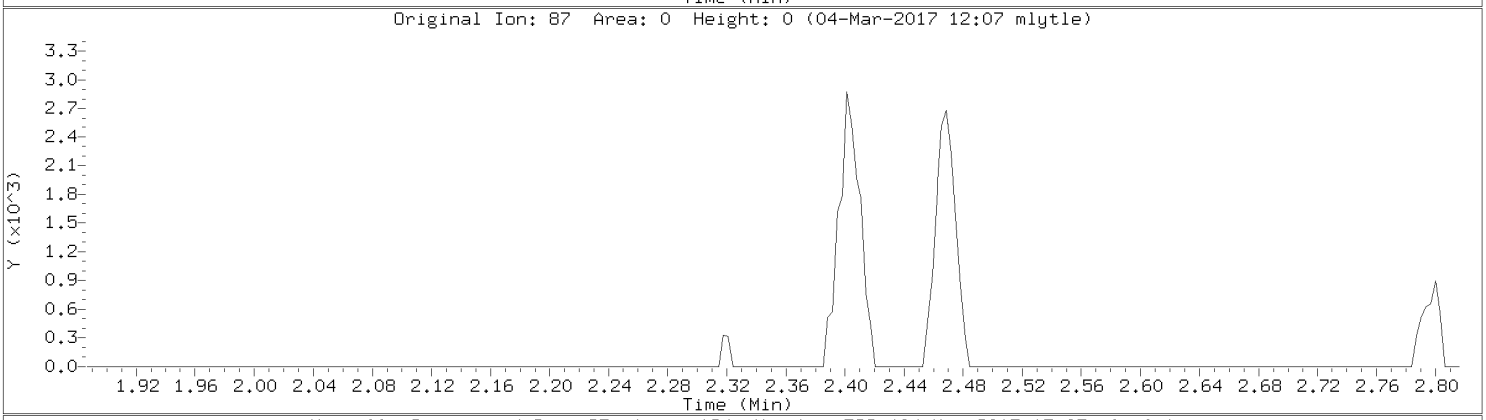


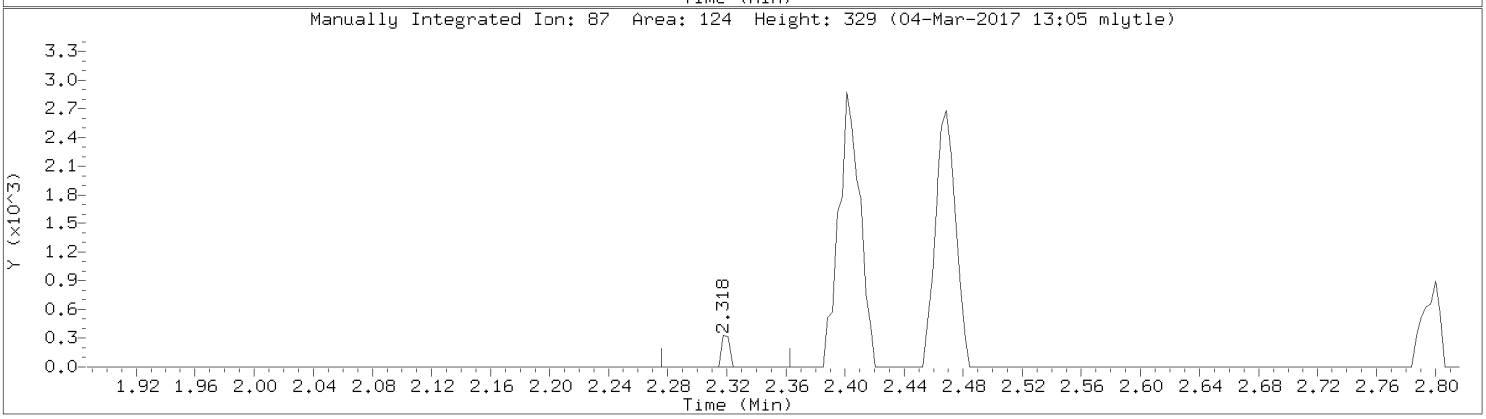
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Chloropentafluoroethane
CAS Number: 76-15-3

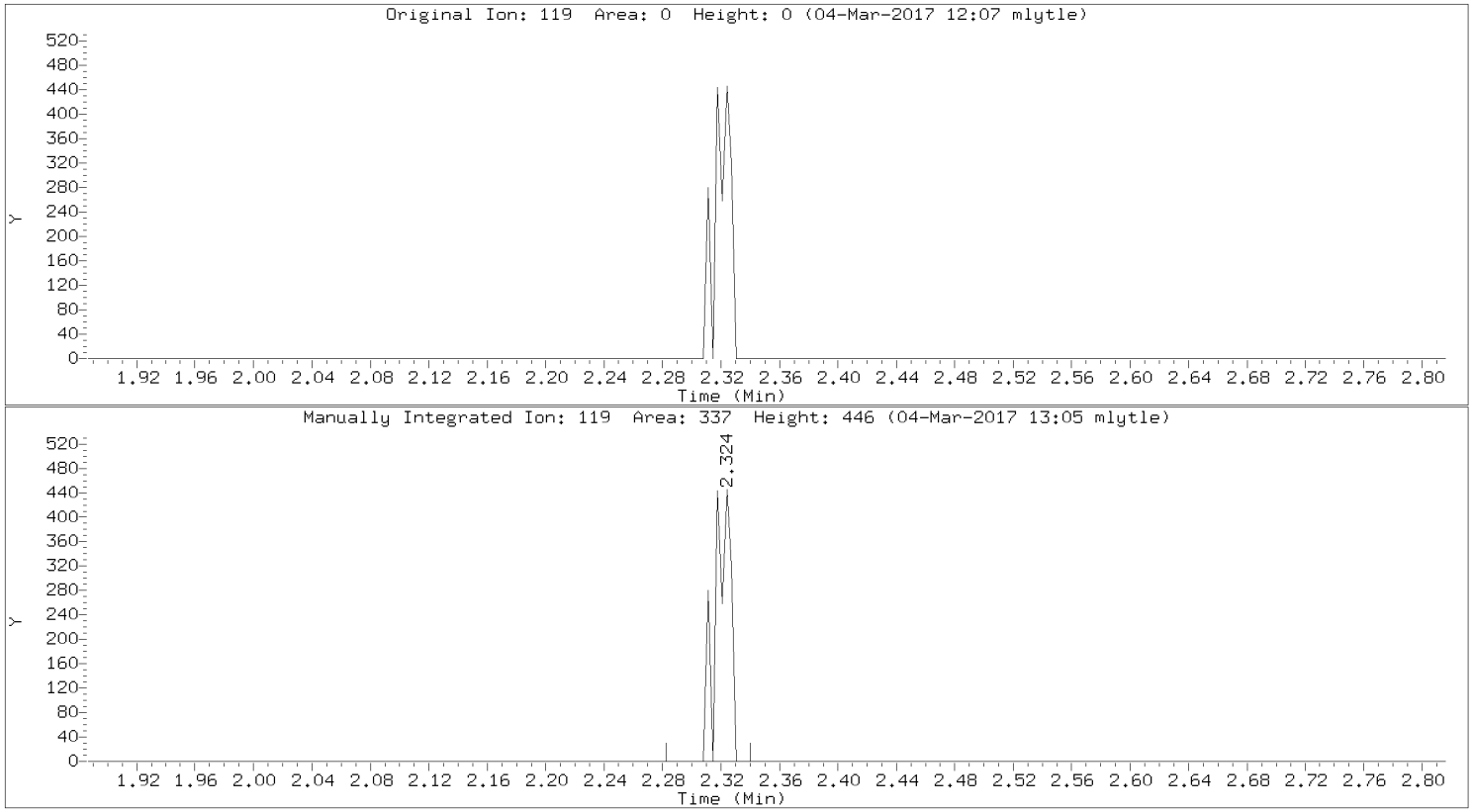






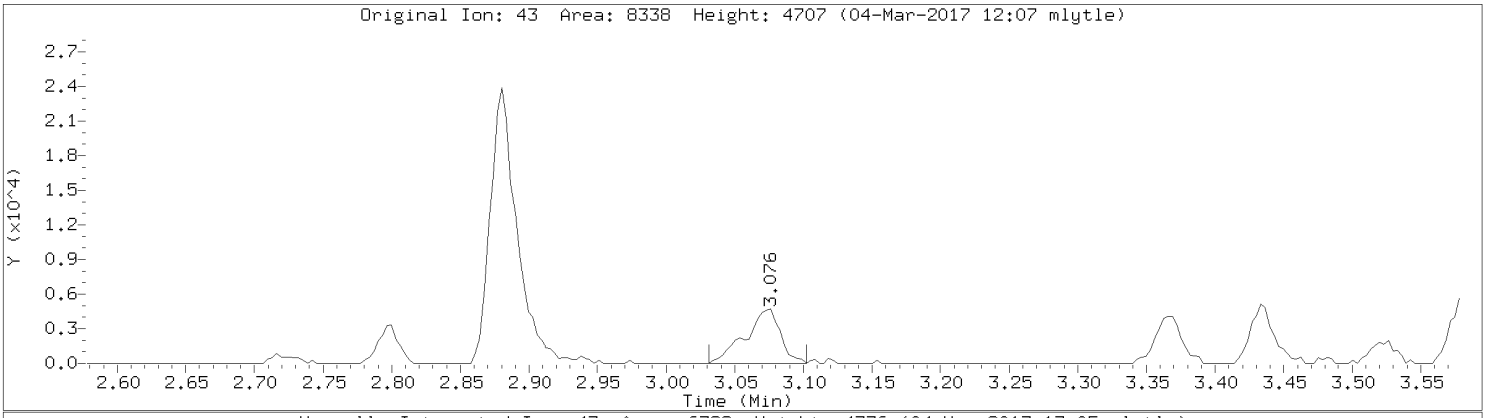


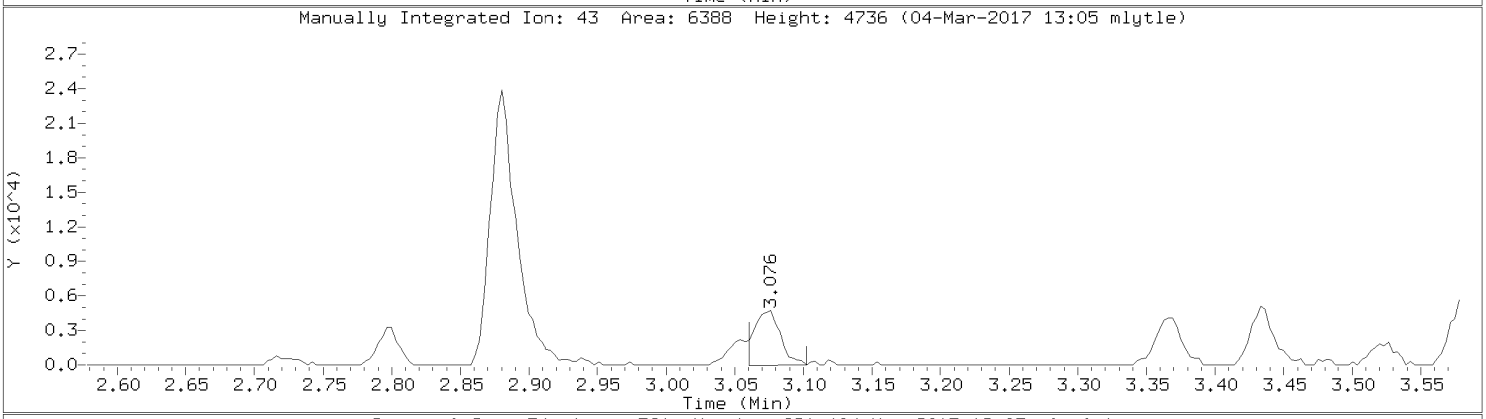
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

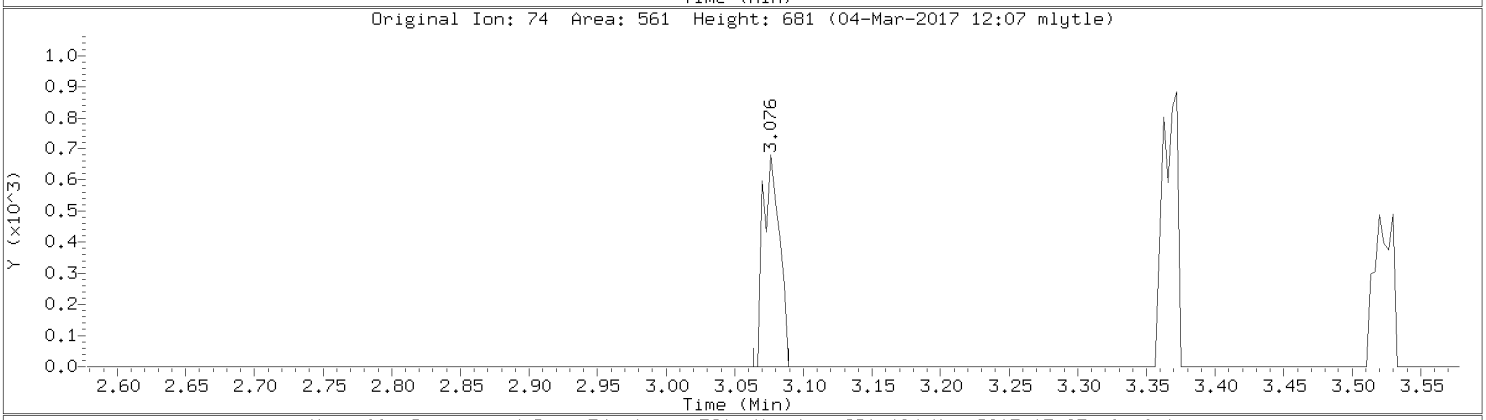


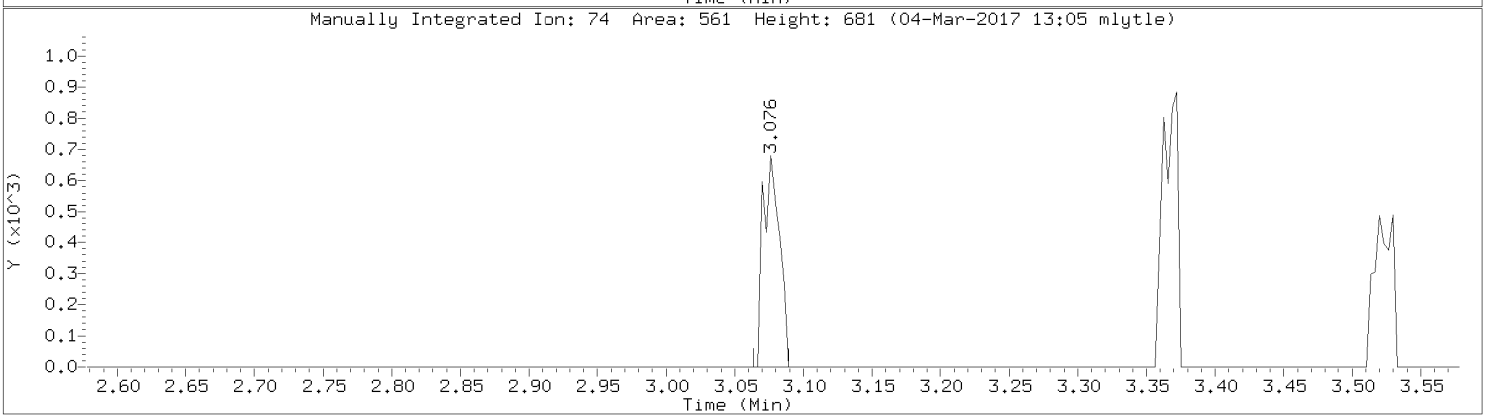
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1

Compound: Methyl Acetate
CAS Number: 79-20-9

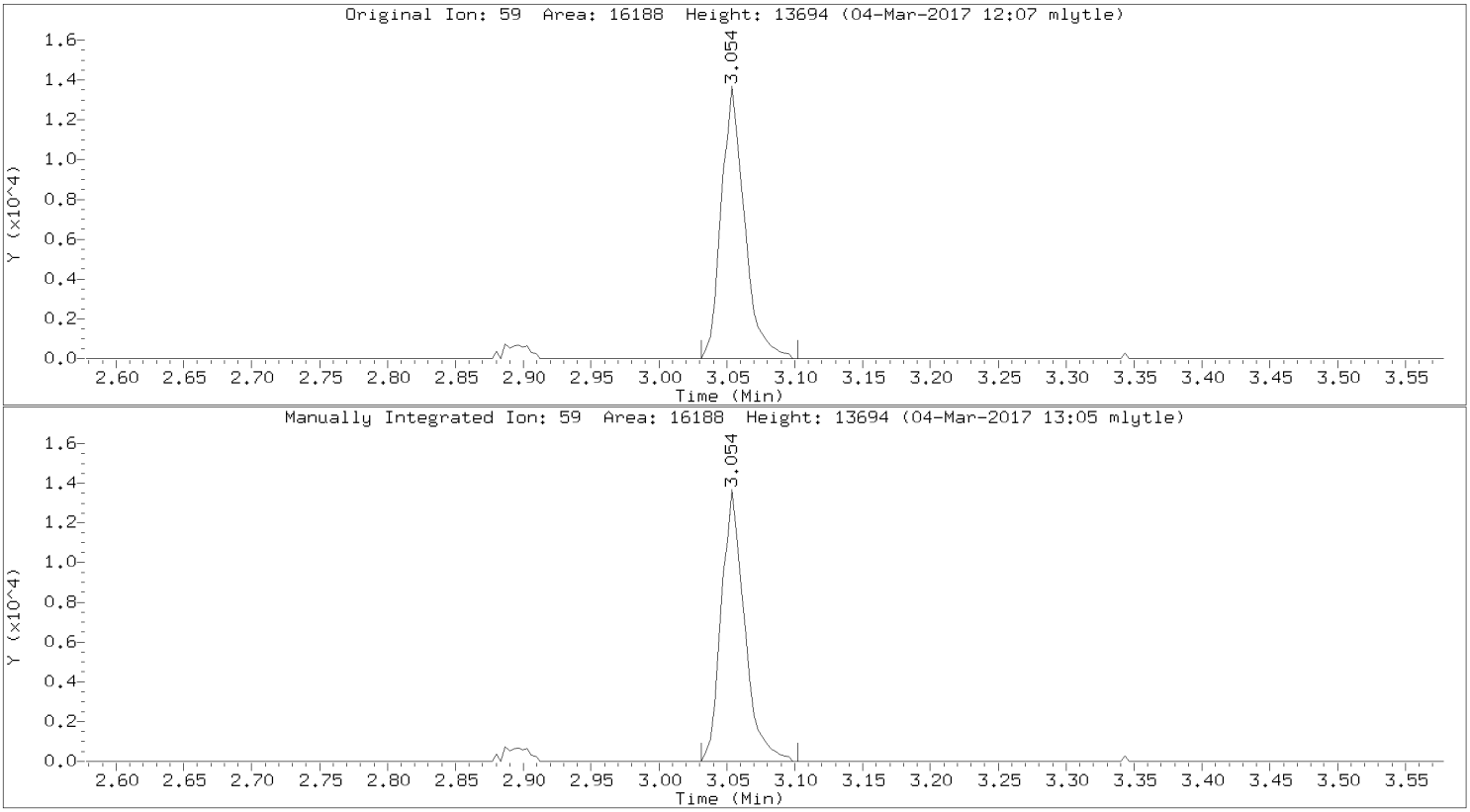








Data File: \\192.168.10.12\chem\10air7.i\030417.b/06304.D
Injection Date: 04-MAR-2017 08:10
Instrument: 10air7.i
Lab Sample ID: CAL1



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Report Date: 04-Mar-2017 13:06

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Lab Smp Id: CAL2
Inj Date : 04-MAR-2017 08:33
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:06 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 08:10 Cal File: 06304.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.314	2.314	(0.515)	7911	0.20000	(aQ)
2	1,1-Difluoroethane	65	2.359	2.359	(0.525)	2956	0.20000	0.207
3	Chlorodifluoromethane	67	2.365	2.365	(0.526)	1675	0.20000	0.227(QM)
4	Propylene	41	2.381	2.381	(0.530)	10787	0.20000	137(A)
5	Dichlorodifluoromethane	85	2.398	2.398	(0.533)	15960	0.20000	0.211
6	Chloromethane	50	2.462	2.462	(0.547)	6770	0.20000	0.218
7	Dichlorotetrafluoroethane	85	2.462	2.462	(0.547)	14931	0.20000	0.215
8	Vinyl chloride	62	2.523	2.523	(0.561)	4901	0.20000	0.215
9	1,3-Butadiene	54	2.549	2.549	(0.567)	3981	0.20000	0.238(Q)
10	Bromomethane	94	2.658	2.658	(0.591)	5329	0.20000	0.215
11	Chloroethane	64	2.690	2.690	(0.598)	2051	0.20000	0.230
12	Ethanol	45	2.709	2.709	(0.603)	7264	1.00000	1.10
13	Vinyl Bromide	106	2.783	2.783	(0.619)	5894	0.20000	0.230
14	Isopentane	43	2.793	2.793	(0.621)	5742	0.20000	0.230
15	Freon 123	83	2.790	2.790	(0.620)	12765	0.20000	0.223
16	Trichlorofluoromethane	101	2.854	2.854	(0.635)	16437	0.20000	0.219
17	Acrolein	56	2.844	2.844	(0.633)	2805	0.50000	0.453
18	Acetone	43	2.873	2.873	(0.639)	52936	1.00000	1.21
19	Isopropyl Alcohol	45	2.886	2.886	(0.642)	38677	1.00000	1.05
20	1,1-Dichloroethene	61	3.041	3.041	(0.676)	9455	0.20000	0.227
21	Acrylonitrile	53	3.041	3.041	(0.676)	9360	0.50000	0.551(M)
22	Freon 113	101	3.073	3.073	(0.683)	13029	0.20000	0.232
23	Tert Butyl Alcohol (TBA)	59	3.047	3.047	(0.678)	26304	0.50000	0.535

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Report Date: 04-Mar-2017 13:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.070	3.070	(0.683)	10735	0.20000	0.215(M)
	25 Methylene chloride	49	3.115	3.115	(0.693)	37669	1.00000	1.23
	26 Allyl Chloride	76	3.124	3.124	(0.695)	3269	0.50000	0.453(Q)
	27 Carbon Disulfide	76	3.217	3.217	(0.715)	12157	0.20000	0.230
	28 trans-1,2-dichloroethene	96	3.333	3.333	(0.741)	5179	0.20000	0.232
	29 Methyl Tert Butyl Ether	73	3.359	3.359	(0.747)	34276	0.50000	0.568
	30 Vinyl Acetate	43	3.433	3.433	(0.763)	9972	0.20000	0.190
	31 1,1-Dichloroethane	63	3.443	3.443	(0.766)	10465	0.20000	0.239
$	32 Hexane-d14(S)	66	3.516	3.516	(0.782)	279083	10.0000	10.5
	33 Methyl Ethyl Ketone	72	3.571	3.571	(0.794)	1762	0.20000	0.213
	34 n-Hexane	57	3.600	3.600	(0.801)	7426	0.20000	0.227(M)
	35 Di-isopropyl Ether	45	3.616	3.616	(0.804)	19723	0.20000	0.242
	36 cis-1,2-Dichloroethene	96	3.713	3.713	(0.826)	5077	0.20000	0.210
	37 Ethyl Acetate	43	3.716	3.716	(0.826)	12070	0.20000	0.233
	38 Ethyl Tert-Butyl Ether	59	3.809	3.809	(0.847)	42915	0.50000	0.565
	39 Chloroform	83	3.809	3.809	(0.847)	11671	0.20000	0.217
	40 Tetrahydrofuran	42	3.954	3.954	(0.879)	5438	0.20000	0.215
	41 1,1,1-Trichloroethane	97	4.153	4.153	(0.923)	14596	0.20000	0.221
	42 1,2-Dichloroethane	62	4.160	4.160	(0.925)	10019	0.20000	0.226
	43 Benzene	78	4.356	4.356	(0.969)	17296	0.20000	0.230
	44 Carbon tetrachloride	117	4.378	4.378	(0.974)	14654	0.20000	0.203
	45 Cyclohexane	56	4.381	4.381	(0.974)	8850	0.20000	0.234
	46 Tert Amyl Methyl Ether	73	4.497	4.497	(1.000)	25344	0.20000	0.0170(a)
*	47 1,4-Difluorobenzene	114	4.497	4.497	(1.000)	972137	10.0000	
	48 2,2,4-Trimethylpentane	57	4.632	4.632	(1.030)	71954	0.50000	0.595
	49 Heptane	43	4.748	4.748	(1.056)	11688	0.20000	0.237
	50 1,2-Dichloropropane	63	4.806	4.806	(1.069)	6736	0.20000	0.232
	51 Trichloroethene	130	4.832	4.832	(1.074)	10399	0.20000	0.227
	52 Methyl methacrylate	69	4.899	4.899	(1.089)	4912	0.20000	0.218
	53 Bromodichloromethane	83	4.918	4.918	(1.094)	12844	0.20000	0.203
	54 1,4-Dioxane	88	4.922	4.922	(1.094)	2433	0.20000	0.195
	55 Methylcyclohexane	98	5.224	5.224	(1.162)	3659	0.20000	0.224(Q)
	56 Methyl Isobutyl Ketone	43	5.343	5.343	(1.188)	37400	0.50000	0.568
	57 cis-1,3-Dichloropropene	75	5.391	5.391	(1.199)	9049	0.20000	0.213
	58 trans-1,3-Dichloropropene	75	5.761	5.761	(1.281)	7582	0.20000	0.198
$	59 Toluene-d8 (S)	98	5.828	5.828	(1.296)	821695	10.0000	10.1
	60 Toluene	91	5.902	5.902	(1.312)	20555	0.20000	0.224
	61 1,1,2-Trichloroethane	97	5.899	5.899	(1.312)	7716	0.20000	0.223
	62 Methyl Butyl Ketone	43	6.134	6.134	(0.840)	32212	0.50000	0.559
	63 n-Octane	43	6.320	6.320	(0.865)	14384	0.20000	0.240
	64 Dibromochloromethane	129	6.388	6.388	(0.875)	13721	0.20000	0.197
	65 1,2-Dibromoethane	107	6.610	6.610	(0.905)	11437	0.20000	0.209
	66 Tetrachloroethene	166	6.677	6.677	(0.914)	13658	0.20000	0.229
*	67 Chlorobenzene - d5	117	7.304	7.304	(1.000)	600501	10.0000	
	68 Chlorobenzene	112	7.346	7.346	(1.006)	16201	0.20000	0.224
	69 Ethyl Benzene	91	7.593	7.593	(1.040)	25431	0.20000	0.227
	70 m&p-Xylene	91	7.735	7.735	(1.059)	38821	0.40000	0.441
	71 Bromoform	173	8.108	8.108	(1.110)	9244	0.20000	0.163
	72 n-Nonane	43	8.130	8.130	(1.113)	11807	0.20000	0.220
	73 Styrene	104	8.143	8.143	(1.115)	12047	0.20000	0.210
	74 o-Xylene	91	8.208	8.208	(1.124)	19623	0.20000	0.223
	75 1,1,2,2-Tetrachloroethane	83	8.462	8.462	(1.158)	11254	0.20000	0.212
	76 Isopropylbenzene	105	8.777	8.777	(1.202)	27182	0.20000	0.225
	77 N-Propylbenzene	91	9.339	9.339	(1.279)	26489	0.20000	0.215

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Report Date: 04-Mar-2017 13:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
78	4-Ethyltoluene	105	9.507	9.507	(1.302)	22058	0.20000	0.206
79	1,3,5-Trimethylbenzene	105	9.597	9.597	(1.314)	18943	0.20000	0.208
80	n-Decane	57	9.995	9.995	(2.222)	8424	0.20000	0.195
81	Tert-Butyl Benzene	119	10.092	10.092	(1.382)	21047	0.20000	0.216
82	1,2,4-Trimethylbenzene	105	10.111	10.111	(1.384)	17993	0.20000	0.230
83	1,3-Dichlorobenzene	146	10.410	10.410	(1.425)	10412	0.20000	0.197
84	Sec- Butylbenzene	105	10.436	10.436	(1.429)	24941	0.20000	0.211
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.484	10.484	(1.435)	208239	10.0000	8.48
86	Benzyl Chloride	91	10.500	10.500	(1.438)	6472	0.20000	0.162
87	1,4-Dichlorobenzene	146	10.516	10.516	(1.440)	9436	0.20000	0.194
88	p-Isopropyltoluene	119	10.661	10.661	(1.460)	19437	0.20000	0.201(M)
89	1,2,3-Trimethylbenzene	105	10.699	10.699	(1.465)	16535	0.20000	0.207
90	1,2-Dichlorobenzene	146	10.999	10.999	(1.506)	9489	0.20000	0.203
91	N-Butylbenzene	91	11.256	11.256	(1.541)	12272	0.20000	0.189
92	1,2-Dibromo-3-Chloropropane	157	11.777	11.777	(1.612)	1979	0.20000	0.178
93	1,2,4-Trichlorobenzene	180	13.043	13.043	(1.786)	1265	0.20000	0.293
94	Naphthalene	128	13.166	13.166	(1.802)	2805	0.20000	0.0399(aM)
95	Hexachlorobutadiene	225	13.426	13.426	(1.838)	3869	0.20000	162(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Report Date: 04-Mar-2017 13:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06305.D
Lab Smp Id: CAL2
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

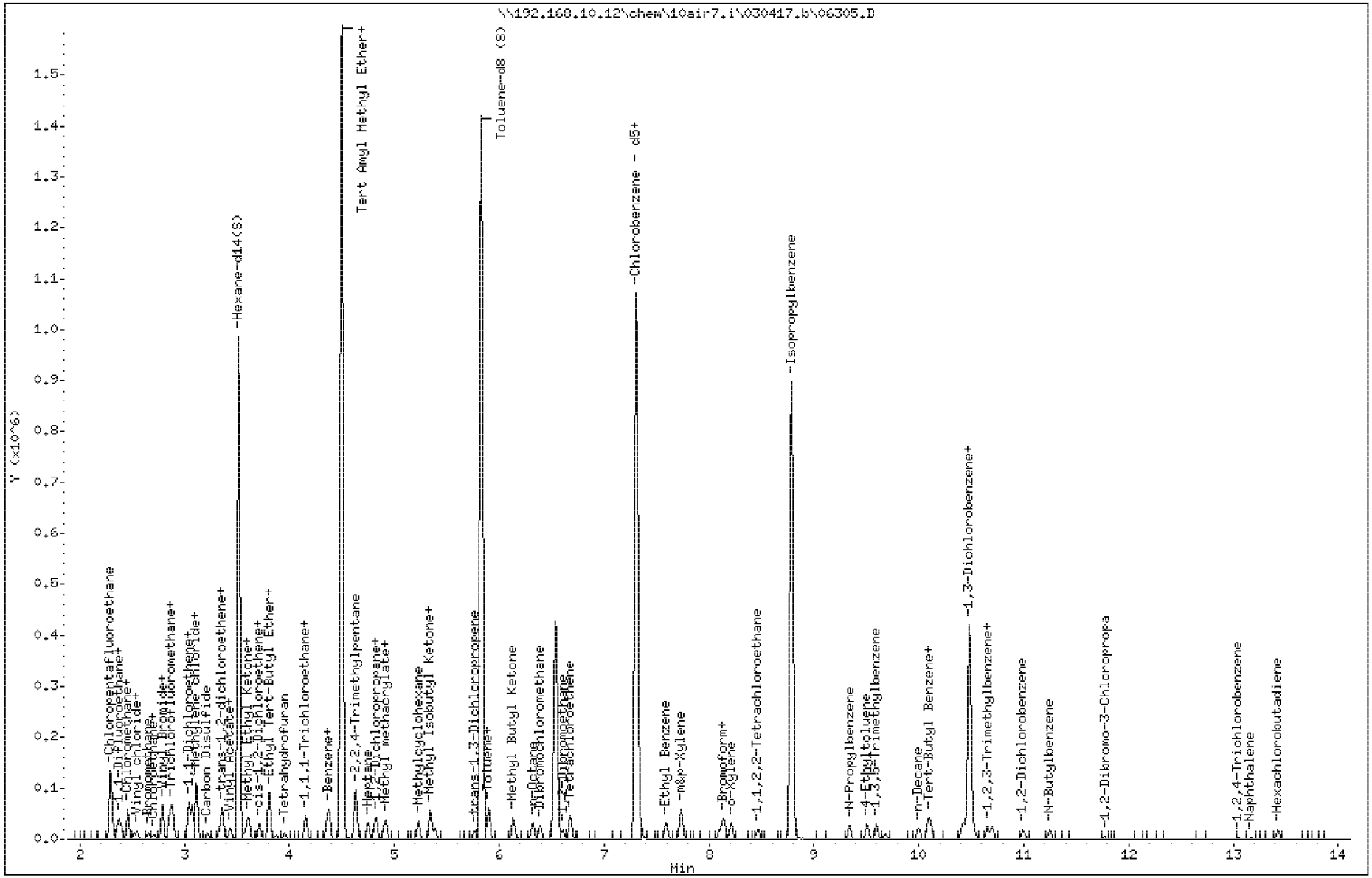
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	972137	16.29
67 Chlorobenzene - d	539522	323713	755331	600501	11.30

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.22
67 Chlorobenzene - d	7.31	6.98	7.64	7.30	-0.13

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

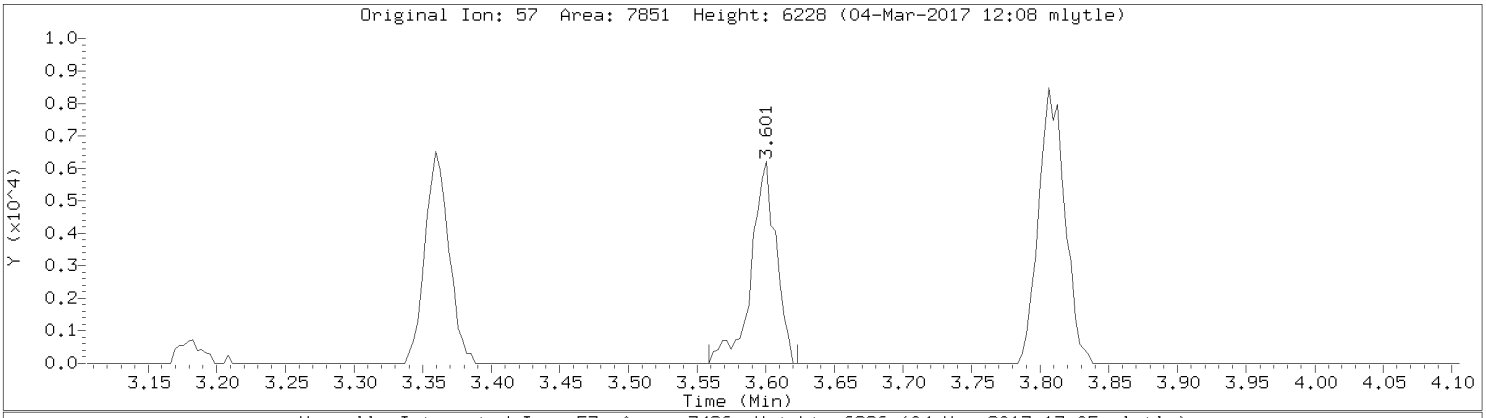
Data File: \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Date : 04-MAR-2017 08:33
Client ID:
Sample Info:

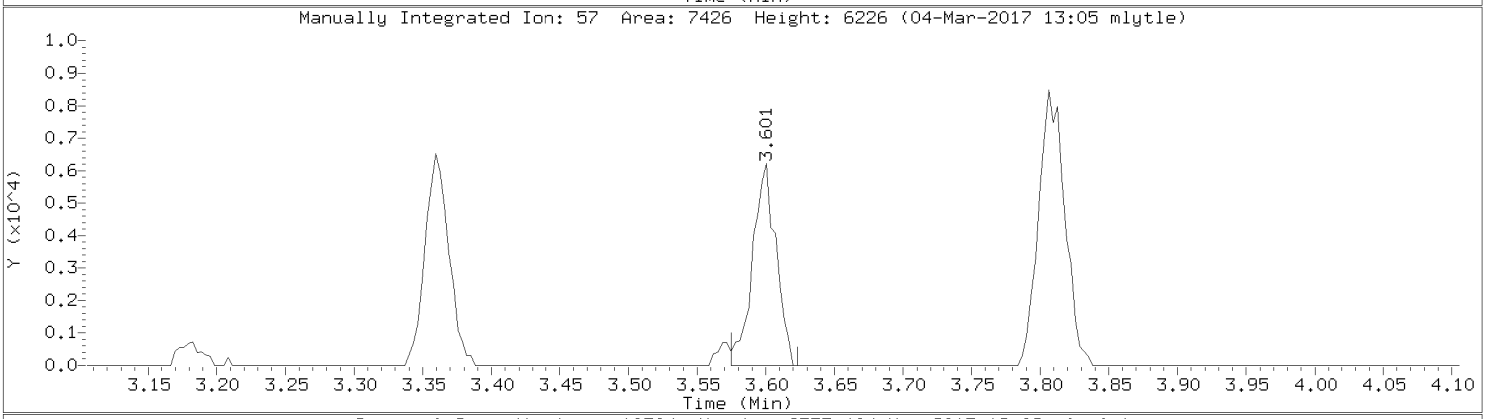
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

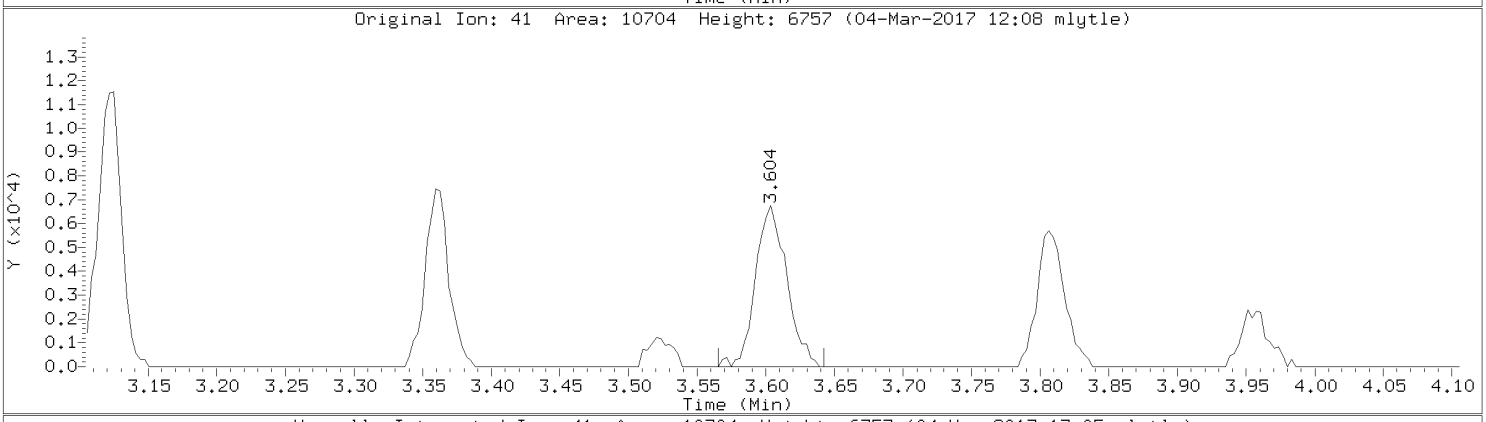


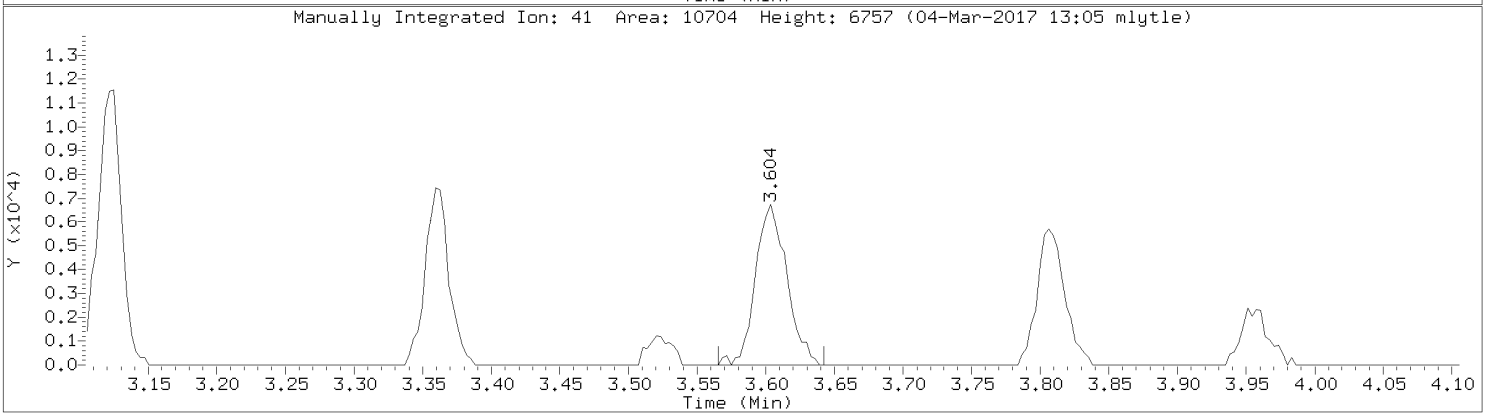
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: n-Hexane
CAS Number: 110-54-3

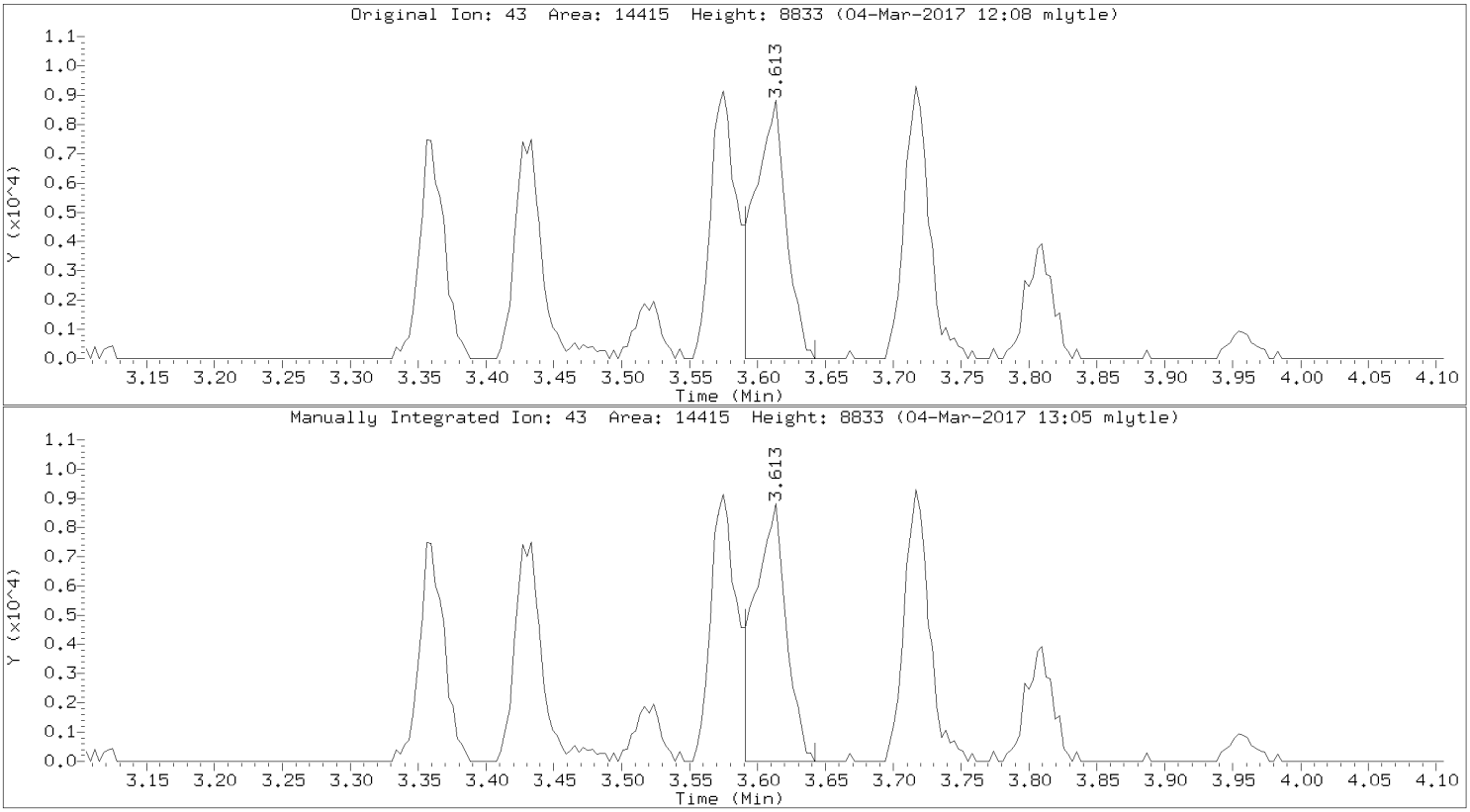






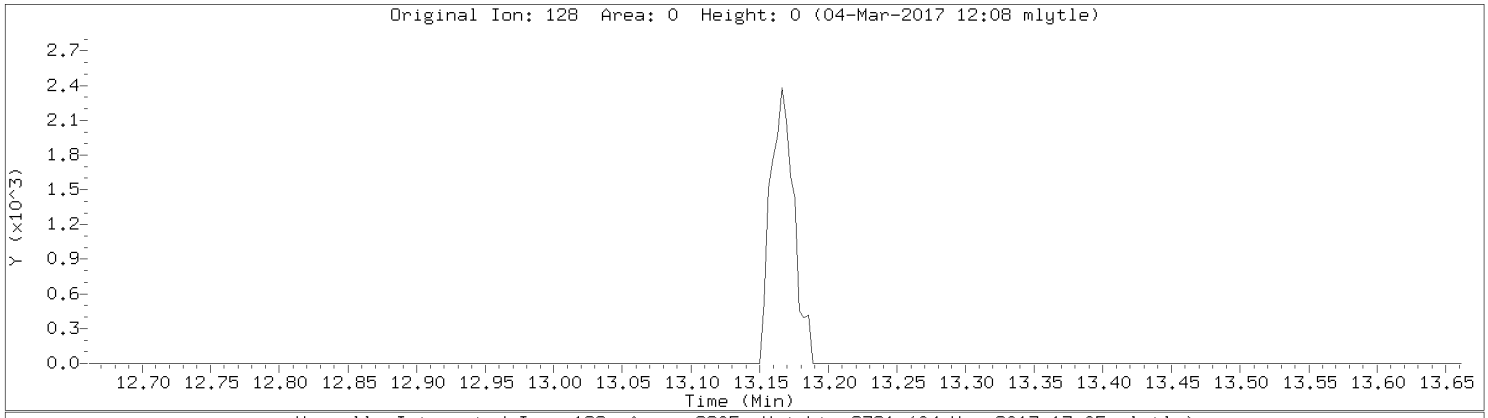


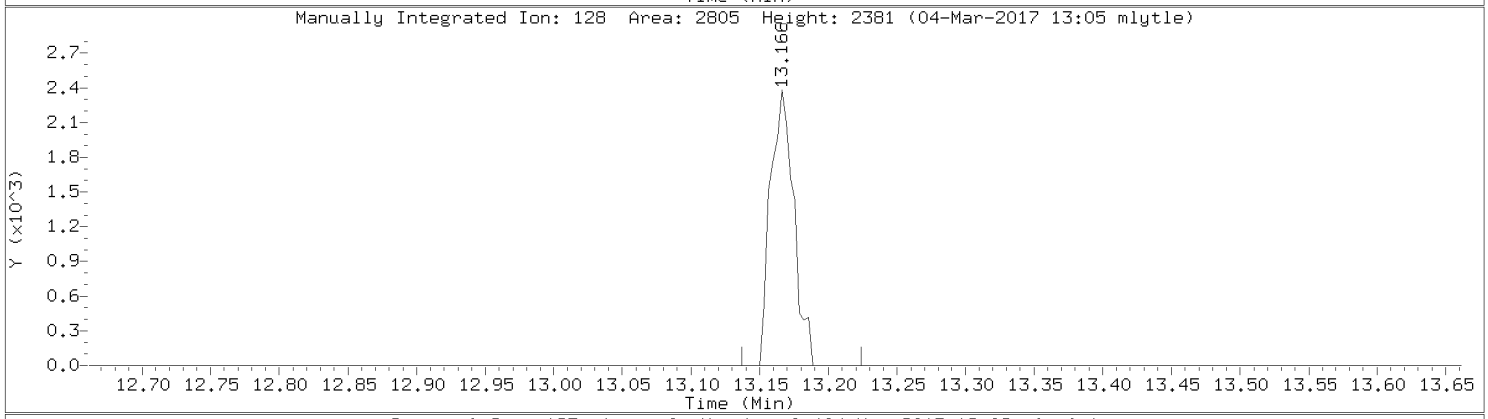
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

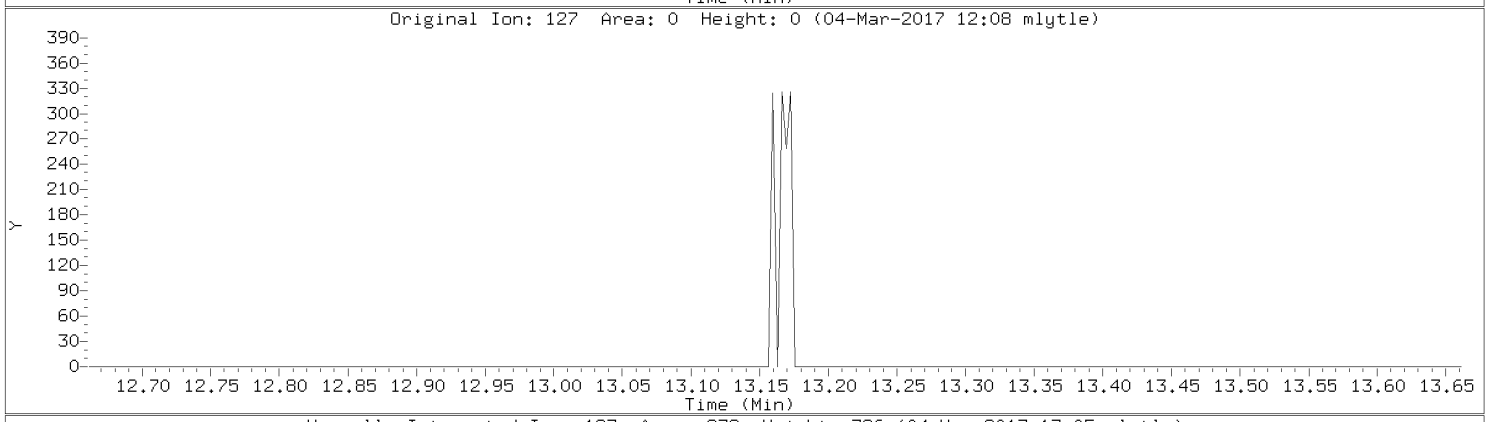


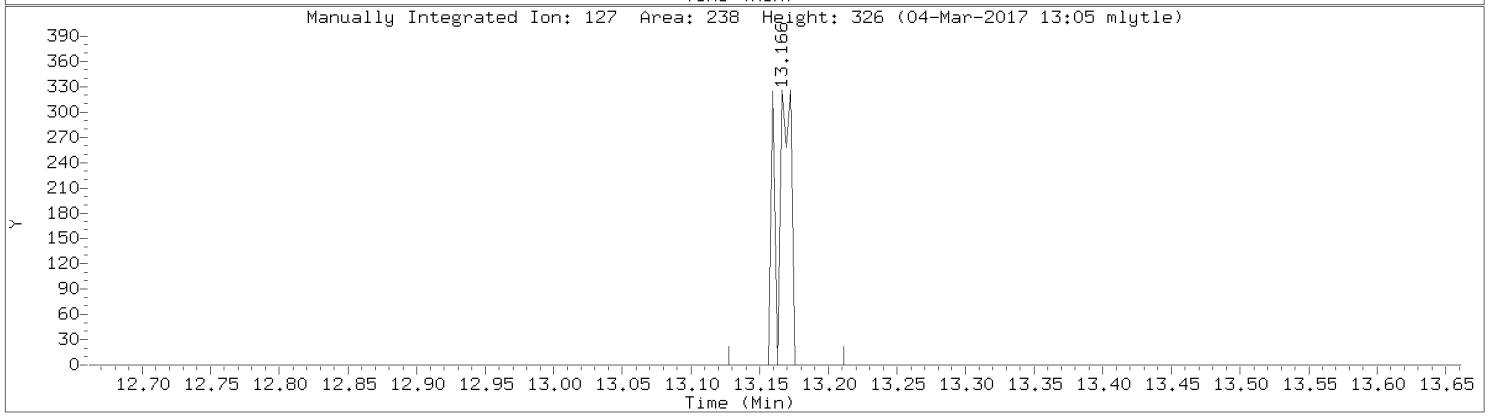
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: Naphthalene
CAS Number: 91-20-3



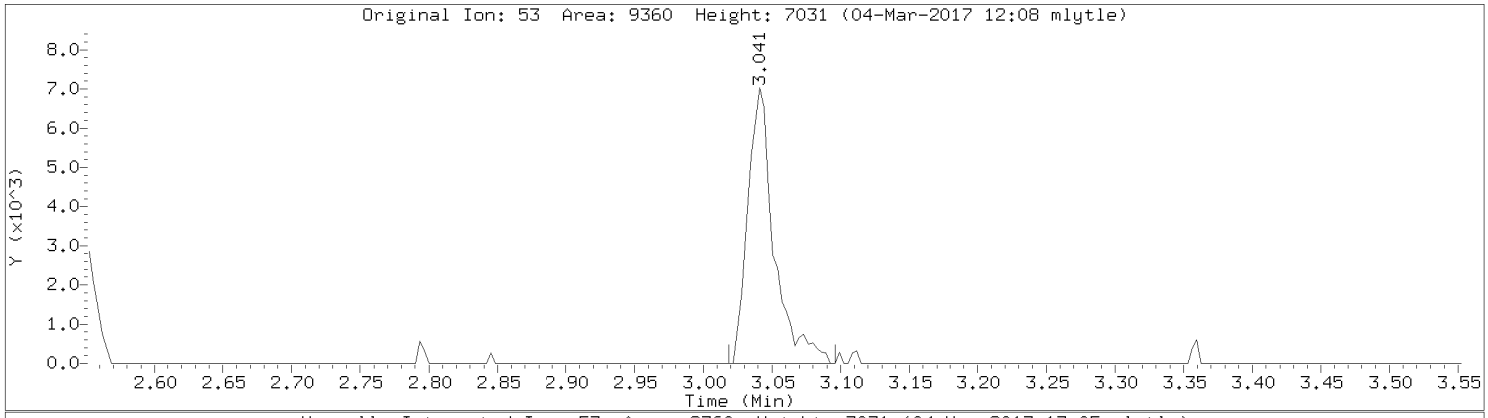


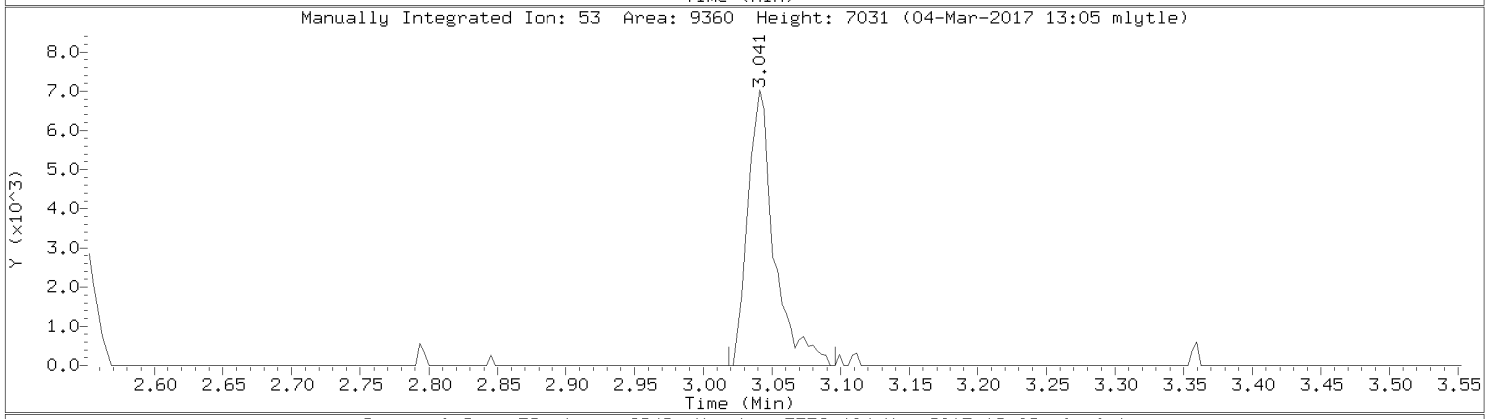


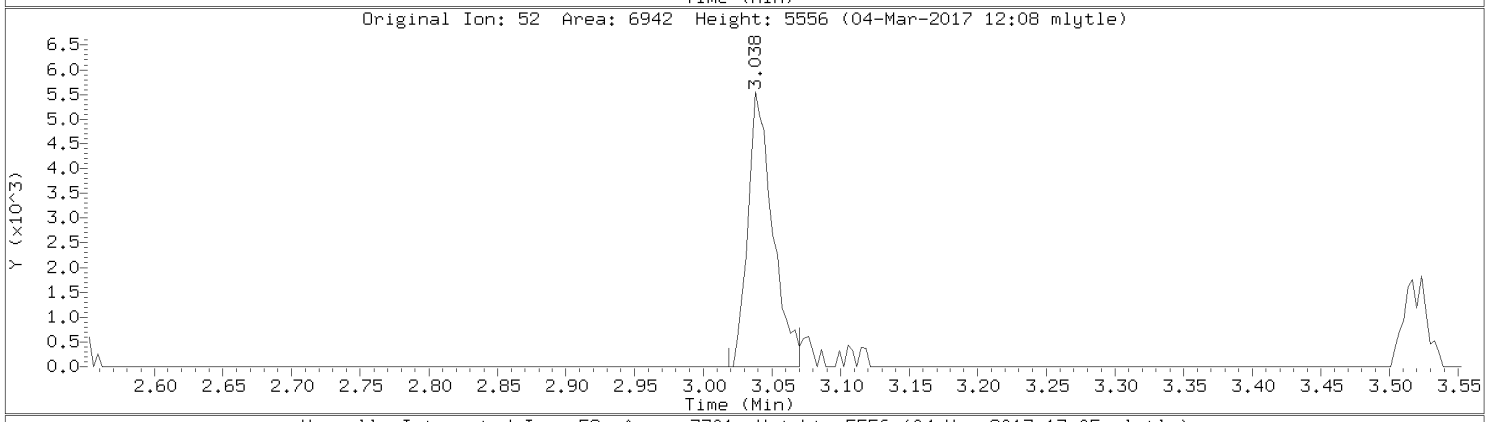


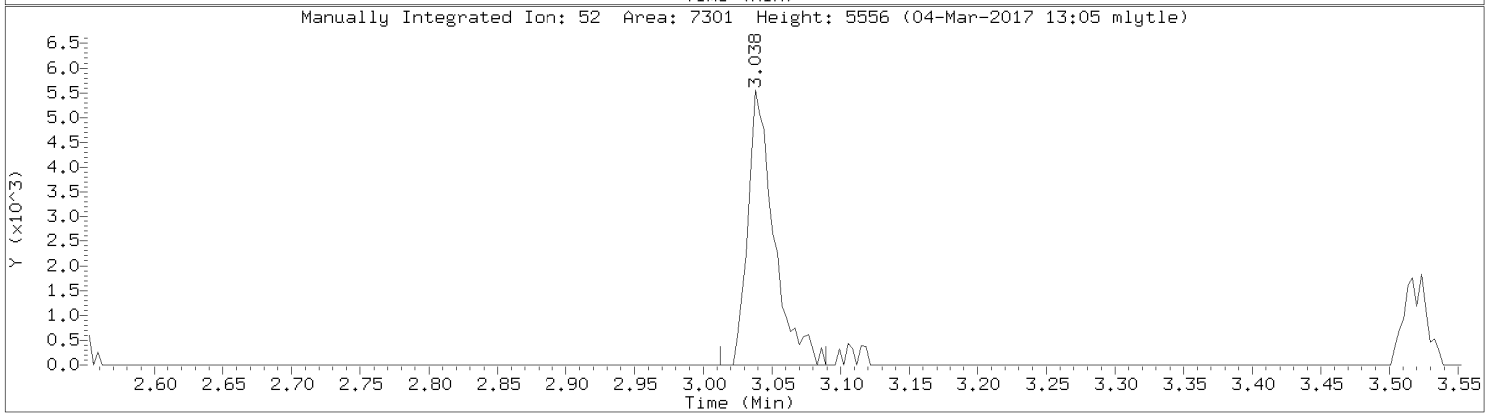
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: Acrylonitrile
CAS Number: 107-13-1



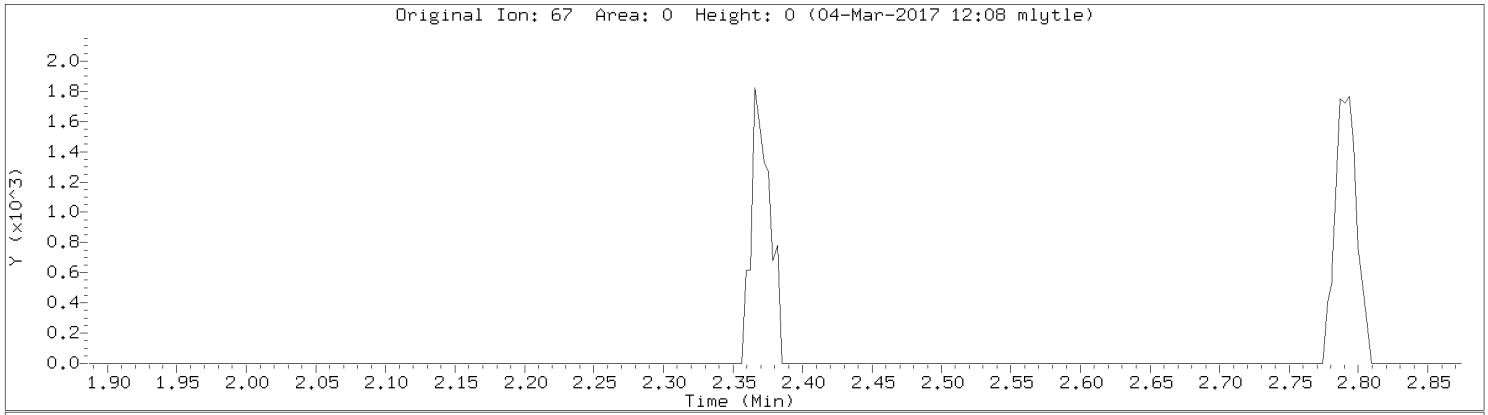


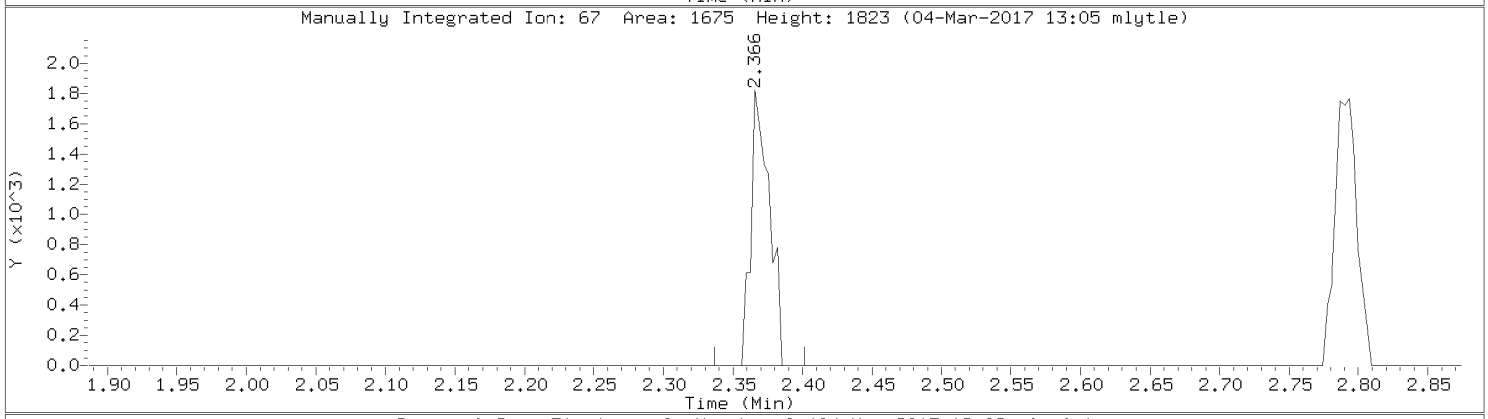


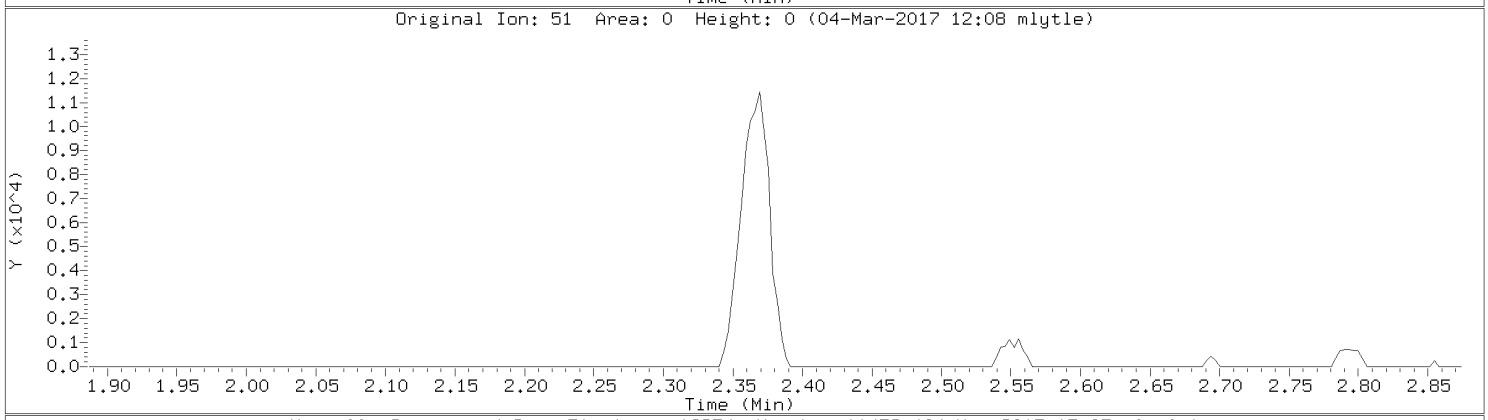


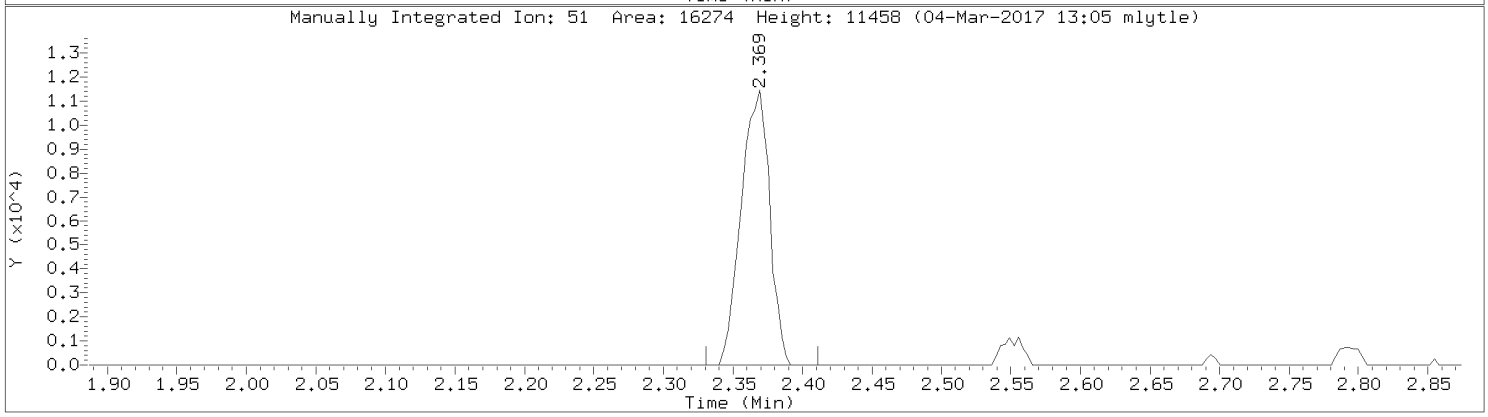
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

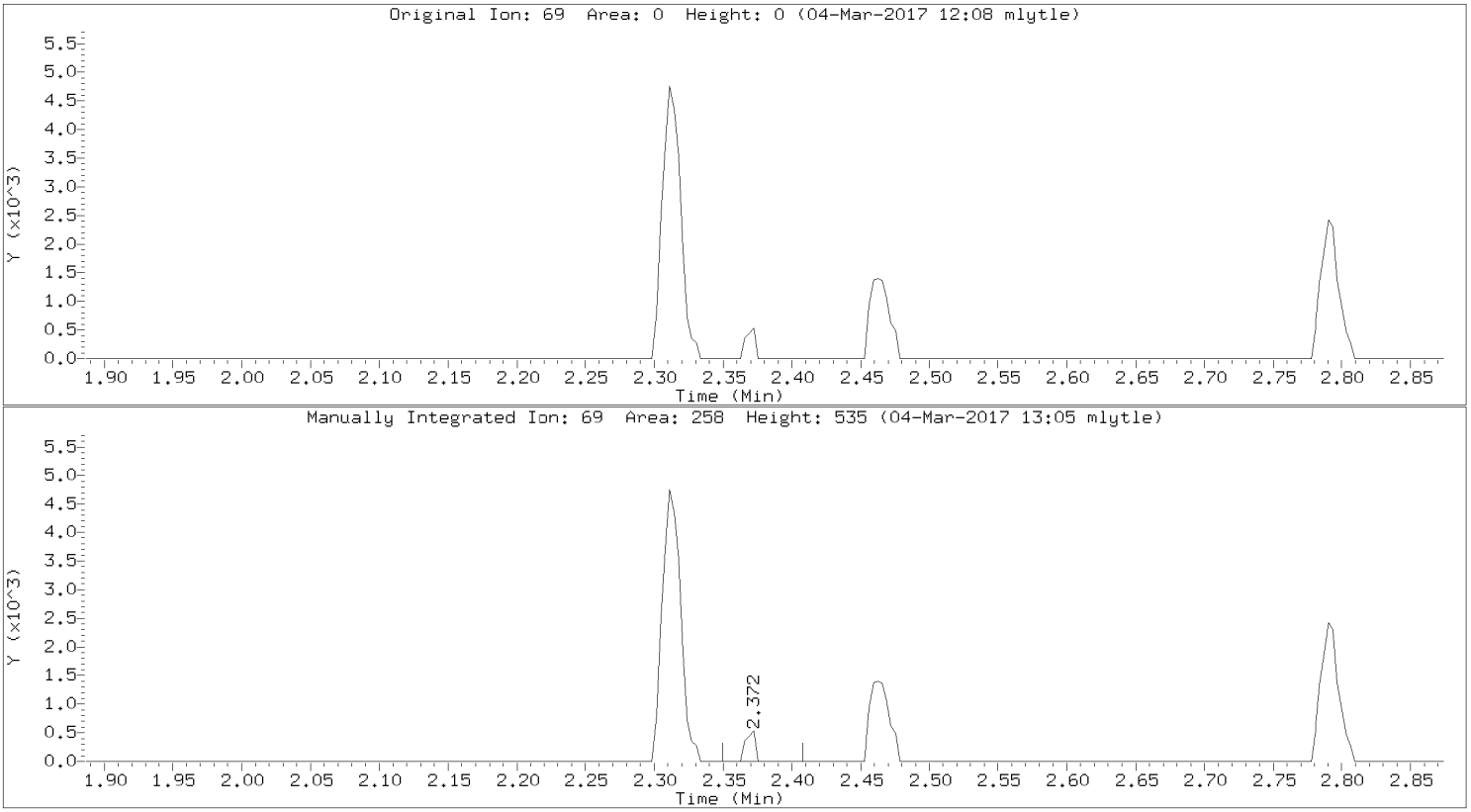






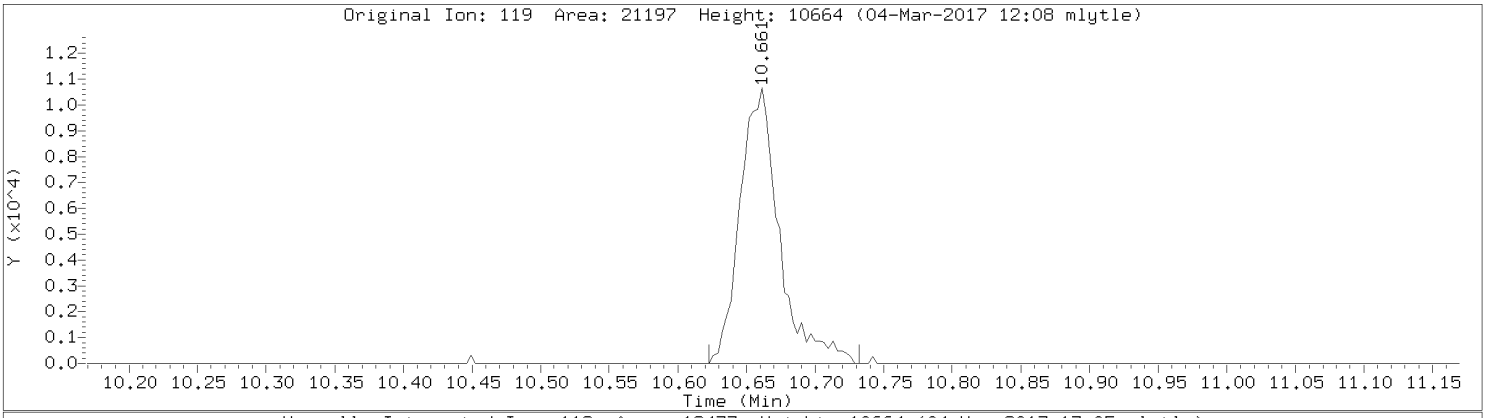


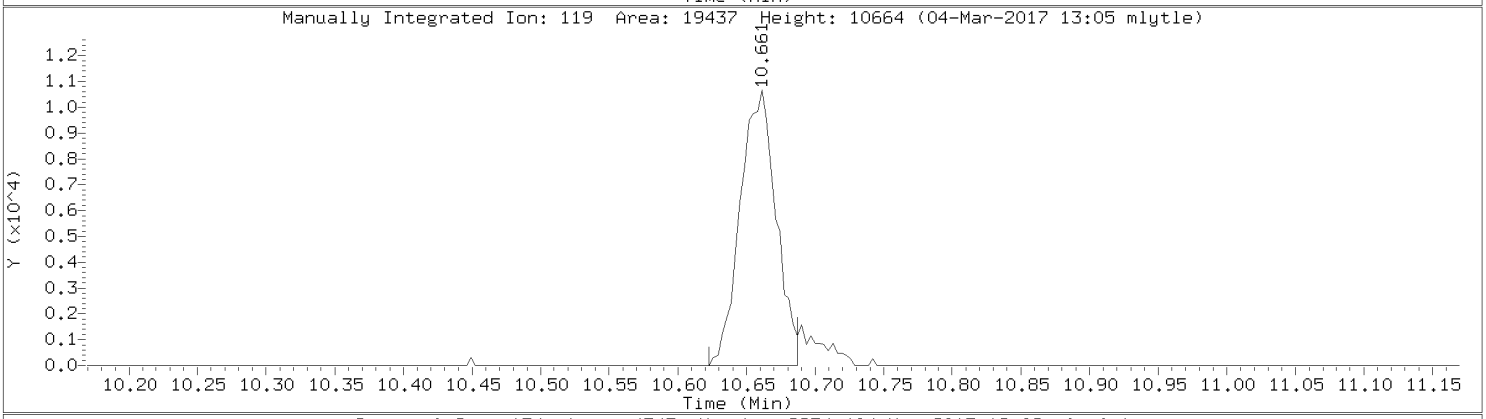
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

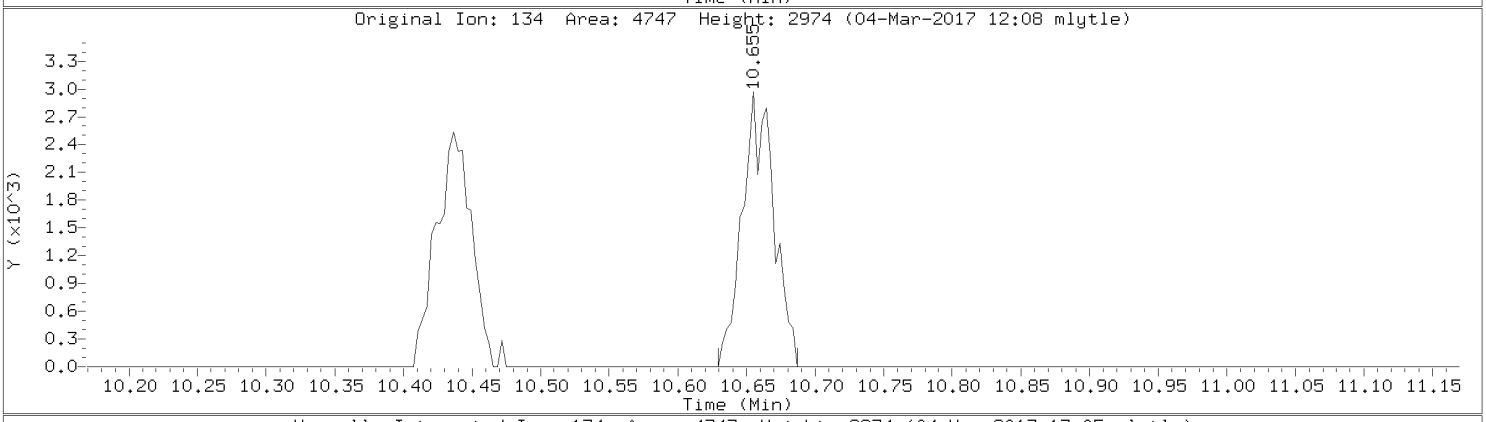


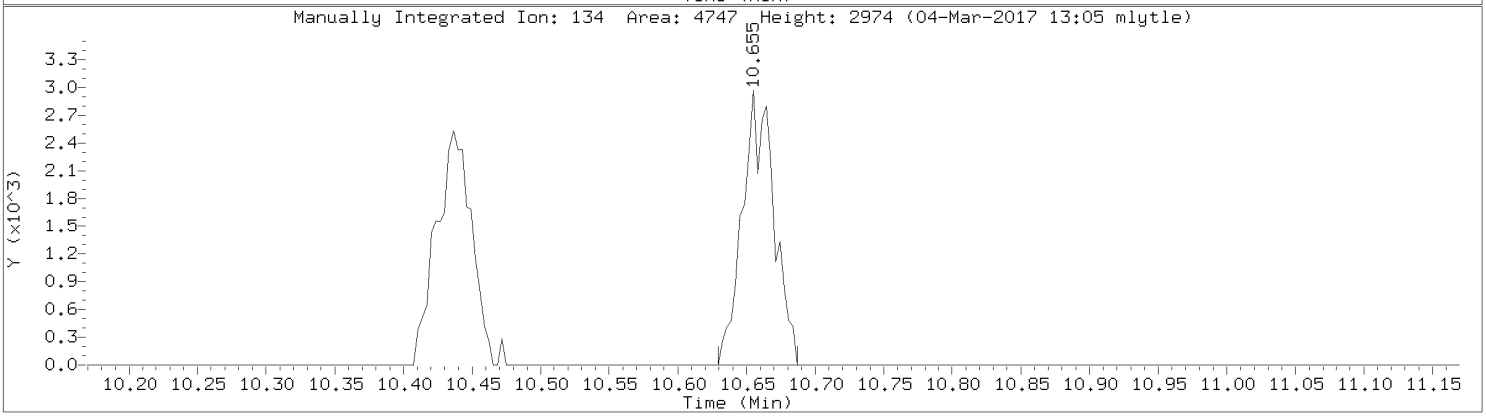
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: p-Isopropyltoluene
CAS Number: 99-87-6

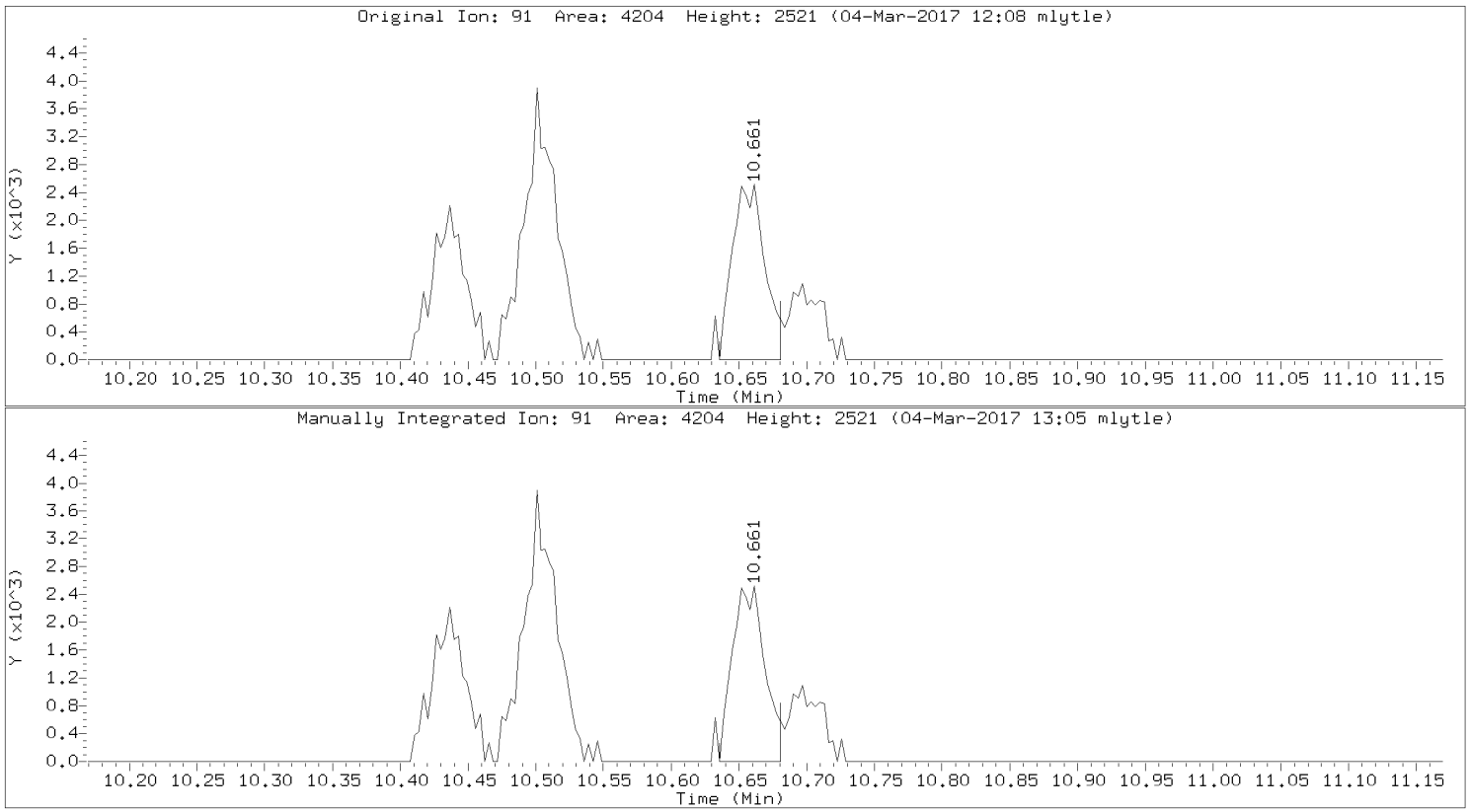






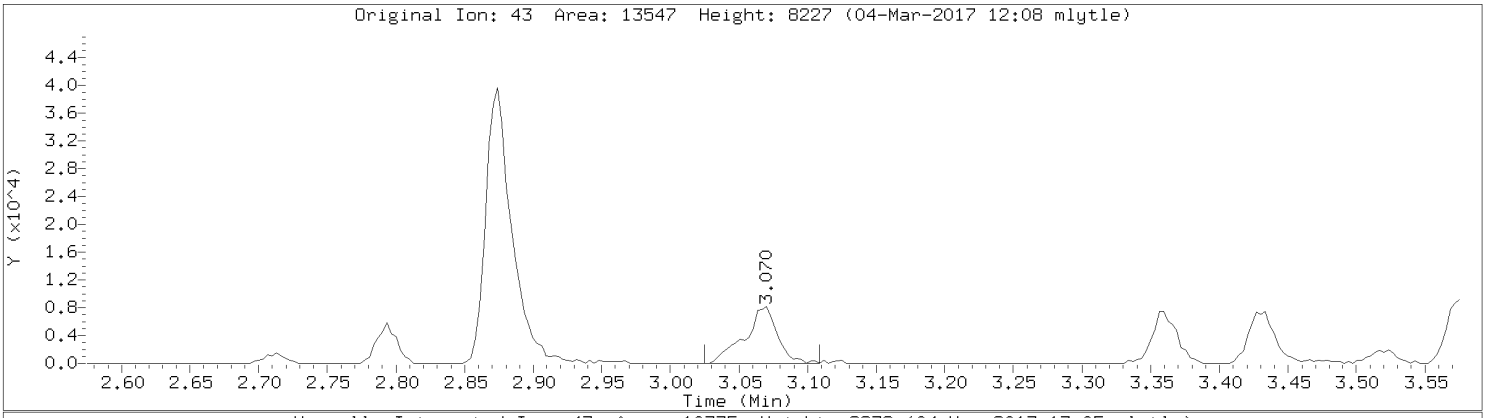


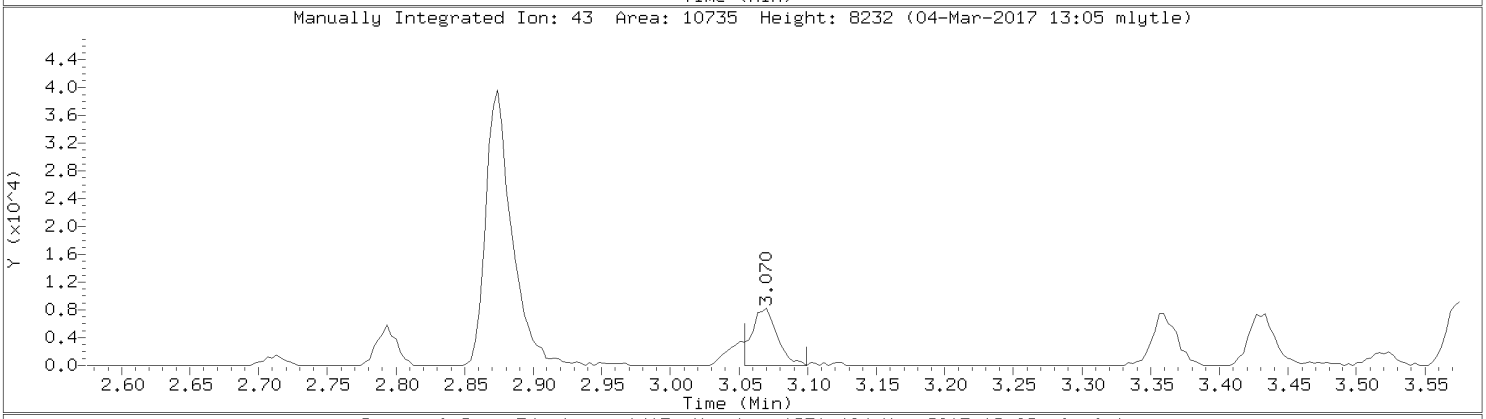
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

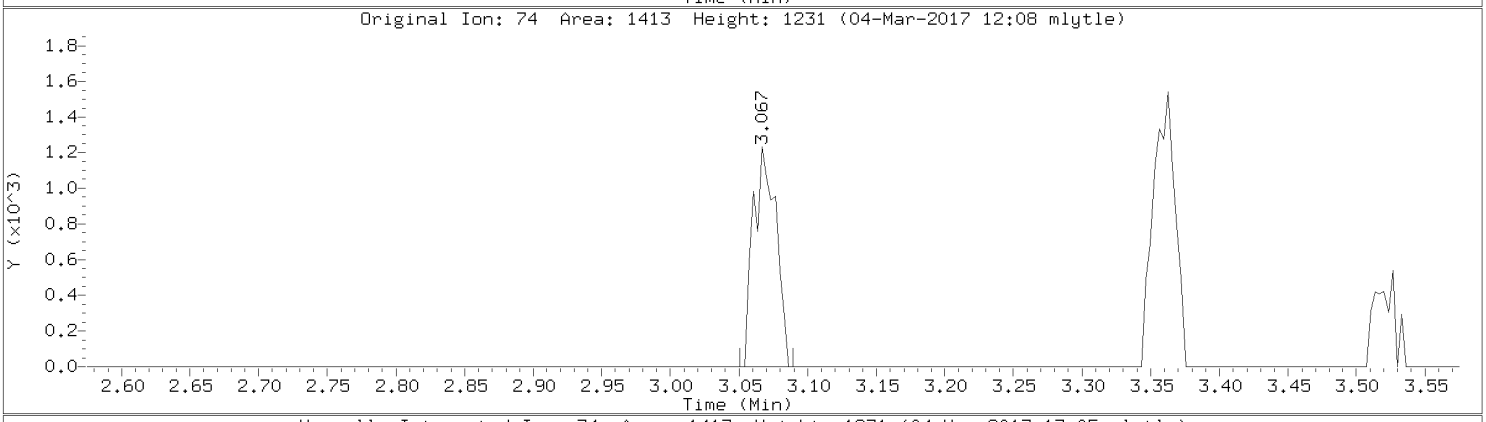


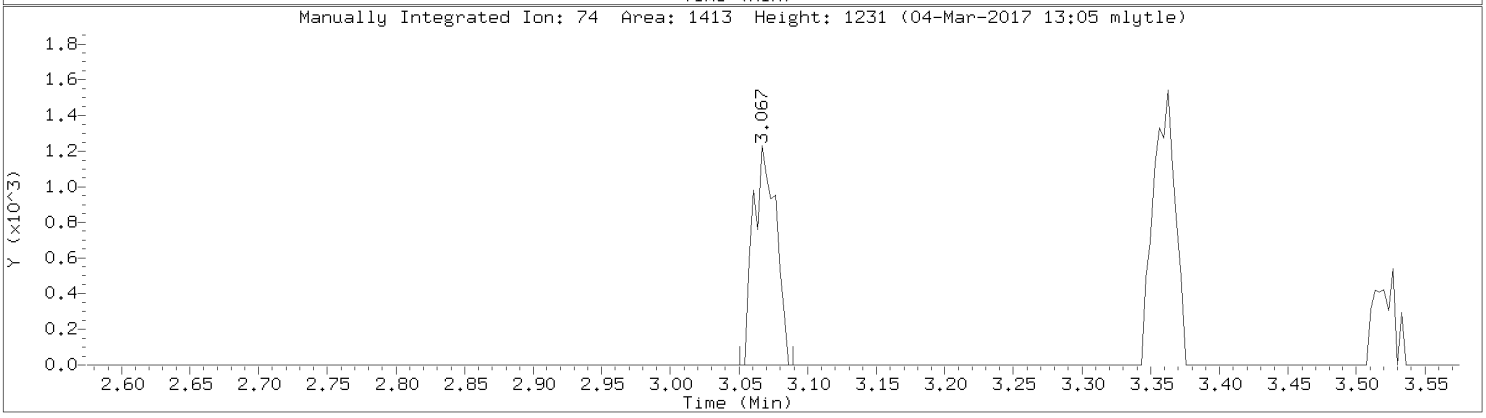
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2

Compound: Methyl Acetate
CAS Number: 79-20-9

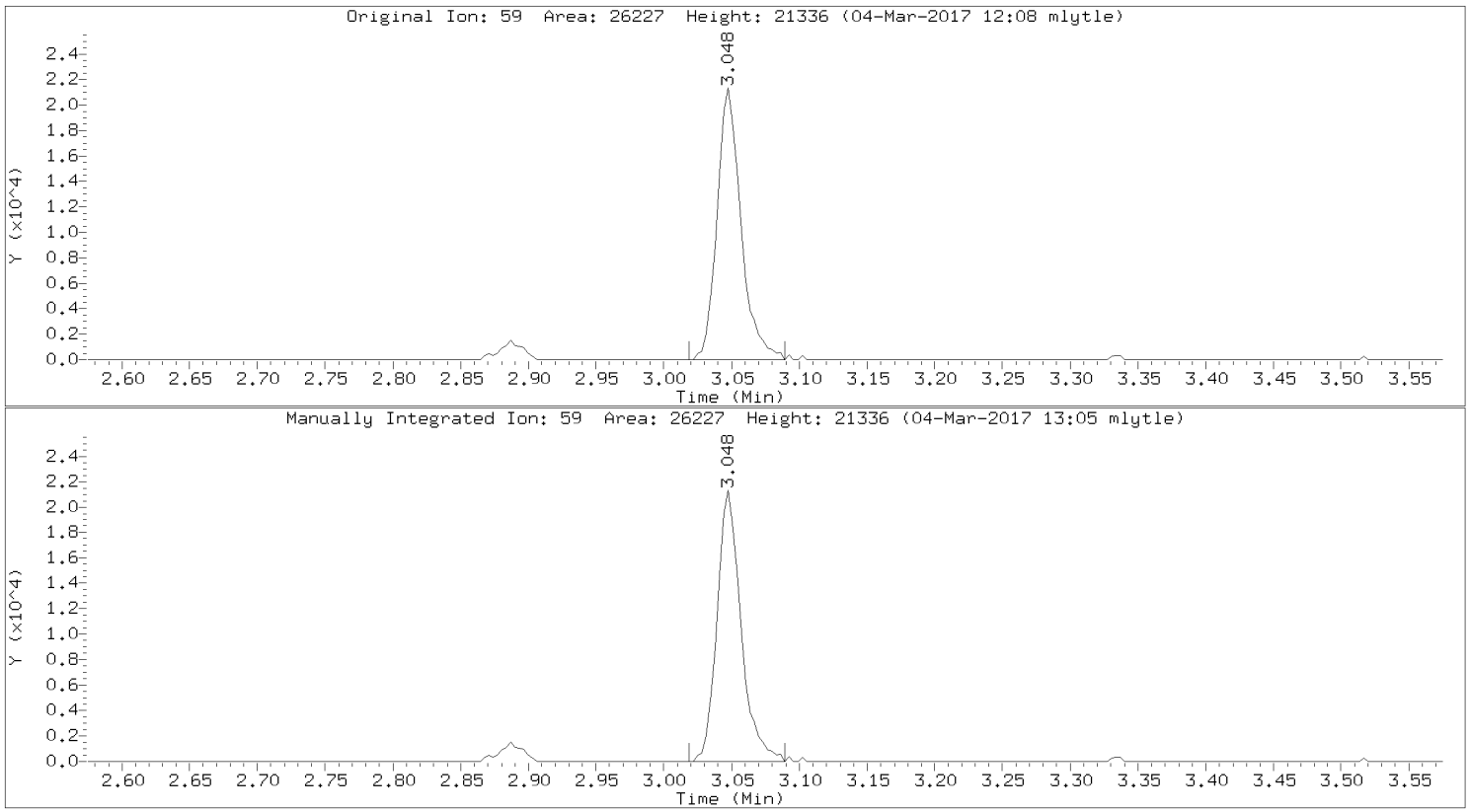








Data File: \\192.168.10.12\chem\10air7.i\030417.b/06305.D
Injection Date: 04-MAR-2017 08:33
Instrument: 10air7.i
Lab Sample ID: CAL2



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Lab Smp Id: CAL3
Inj Date : 04-MAR-2017 08:57
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:07 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 08:33 Cal File: 06305.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.308	2.308	(0.513)	9319	0.50000	(a)
2	1,1-Difluoroethane	65	2.356	2.356	(0.524)	6607	0.50000	0.481
3	Chlorodifluoromethane	67	2.366	2.366	(0.526)	3421	0.50000	0.483(Q)
4	Propylene	41	2.375	2.375	(0.528)	24024	0.50000	0.434
5	Dichlorodifluoromethane	85	2.394	2.394	(0.532)	35090	0.50000	0.483
6	Chloromethane	50	2.462	2.462	(0.547)	14965	0.50000	0.502
7	Dichlorotetrafluoroethane	85	2.459	2.459	(0.547)	32626	0.50000	0.490
8	Vinyl chloride	62	2.520	2.520	(0.560)	10654	0.50000	0.487
9	1,3-Butadiene	54	2.546	2.546	(0.566)	8062	0.50000	0.503
10	Bromomethane	94	2.652	2.652	(0.590)	11749	0.50000	0.493
11	Chloroethane	64	2.687	2.687	(0.598)	4269	0.50000	0.499
12	Ethanol	45	2.703	2.703	(0.601)	14588	2.50000	2.31
13	Vinyl Bromide	106	2.780	2.780	(0.618)	11684	0.50000	0.474
14	Isopentane	43	2.790	2.790	(0.620)	11800	0.50000	0.493
15	Freon 123	83	2.787	2.787	(0.620)	25749	0.50000	0.468
16	Trichlorofluoromethane	101	2.851	2.851	(0.634)	34069	0.50000	0.472
17	Acrolein	56	2.841	2.841	(0.632)	6045	1.25000	1.02
18	Acetone	43	2.867	2.867	(0.638)	105805	2.50000	2.52
19	Isopropyl Alcohol	45	2.880	2.880	(0.640)	79279	2.50000	2.25
20	1,1-Dichloroethene	61	3.041	3.041	(0.676)	18173	0.50000	0.455
21	Acrylonitrile	53	3.034	3.034	(0.675)	17500	1.25000	1.07
22	Freon 113	101	3.070	3.070	(0.683)	24789	0.50000	0.459
23	Tert Butyl Alcohol (TBA)	59	3.041	3.041	(0.676)	50623	1.25000	1.07

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.066	3.066	(0.682)	19311	0.50000	0.403
	25 Methylene chloride	49	3.111	3.111	(0.692)	68561	2.50000	2.34
	26 Allyl Chloride	76	3.121	3.121	(0.694)	6531	1.25000	0.942(Q)
	27 Carbon Disulfide	76	3.214	3.214	(0.715)	21988	0.50000	0.434
	28 trans-1,2-dichloroethene	96	3.333	3.333	(0.741)	9213	0.50000	0.429
	29 Methyl Tert Butyl Ether	73	3.356	3.356	(0.746)	64918	1.25000	1.12
	30 Vinyl Acetate	43	3.427	3.427	(0.762)	17924	0.50000	0.355
	31 1,1-Dichloroethane	63	3.439	3.439	(0.765)	18903	0.50000	0.449
$	32 Hexane-d14(S)	66	3.517	3.517	(0.782)	236401	10.0000	9.27
	33 Methyl Ethyl Ketone	72	3.568	3.568	(0.793)	3618	0.50000	0.456(Q)
	34 n-Hexane	57	3.597	3.597	(0.800)	13549	0.50000	0.432
	35 Di-isopropyl Ether	45	3.610	3.610	(0.803)	34013	0.50000	0.434
	36 cis-1,2-Dichloroethene	96	3.713	3.713	(0.826)	9692	0.50000	0.418
	37 Ethyl Acetate	43	3.713	3.713	(0.826)	21363	0.50000	0.429
	38 Ethyl Tert-Butyl Ether	59	3.803	3.803	(0.846)	80921	1.25000	1.11
	39 Chloroform	83	3.806	3.806	(0.846)	22568	0.50000	0.436
	40 Tetrahydrofuran	42	3.951	3.951	(0.878)	10503	0.50000	0.433
	41 1,1,1-Trichloroethane	97	4.150	4.150	(0.923)	29286	0.50000	0.463
	42 1,2-Dichloroethane	62	4.160	4.160	(0.925)	19635	0.50000	0.461
	43 Benzene	78	4.359	4.359	(0.969)	33633	0.50000	0.465
	44 Carbon tetrachloride	117	4.375	4.375	(0.973)	31450	0.50000	0.453
	45 Cyclohexane	56	4.382	4.382	(0.974)	17185	0.50000	0.474
	46 Tert Amyl Methyl Ether	73	4.491	4.491	(0.999)	41376	0.50000	0.292(H)
*	47 1,4-Difluorobenzene	114	4.497	4.497	(1.000)	934015	10.0000	
	48 2,2,4-Trimethylpentane	57	4.629	4.629	(1.029)	143892	1.25000	1.24
	49 Heptane	43	4.745	4.745	(1.055)	22967	0.50000	0.484
	50 1,2-Dichloropropane	63	4.812	4.812	(1.070)	13395	0.50000	0.481
	51 Trichloroethene	130	4.828	4.828	(1.074)	20873	0.50000	0.474
	52 Methyl methacrylate	69	4.893	4.893	(1.088)	9691	0.50000	0.449
	53 Bromodichloromethane	83	4.918	4.918	(1.094)	26838	0.50000	0.442
	54 1,4-Dioxane	88	4.909	4.909	(1.091)	5652	0.50000	0.471
	55 Methylcyclohexane	98	5.227	5.227	(1.162)	7655	0.50000	0.488(Q)
	56 Methyl Isobutyl Ketone	43	5.336	5.336	(1.187)	75411	1.25000	1.19
	57 cis-1,3-Dichloropropene	75	5.388	5.388	(1.198)	18164	0.50000	0.446
	58 trans-1,3-Dichloropropene	75	5.761	5.761	(1.281)	15448	0.50000	0.419
$	59 Toluene-d8 (S)	98	5.828	5.828	(1.296)	788223	10.0000	10.1
	60 Toluene	91	5.899	5.899	(1.312)	41003	0.50000	0.465
	61 1,1,2-Trichloroethane	97	5.899	5.899	(1.312)	15337	0.50000	0.461
	62 Methyl Butyl Ketone	43	6.127	6.127	(0.839)	65839	1.25000	1.17
	63 n-Octane	43	6.320	6.320	(0.865)	28561	0.50000	0.490
	64 Dibromochloromethane	129	6.391	6.391	(0.875)	29429	0.50000	0.433
	65 1,2-Dibromoethane	107	6.607	6.607	(0.904)	24137	0.50000	0.453
	66 Tetrachloroethene	166	6.677	6.677	(0.914)	27794	0.50000	0.479
*	67 Chlorobenzene - d5	117	7.304	7.304	(1.000)	585394	10.0000	
	68 Chlorobenzene	112	7.349	7.349	(1.006)	32572	0.50000	0.462
	69 Ethyl Benzene	91	7.594	7.594	(1.040)	51075	0.50000	0.467
	70 m&p-Xylene	91	7.738	7.738	(1.059)	78447	1.00000	0.914
	71 Bromoform	173	8.102	8.102	(1.109)	19141	0.50000	0.347
	72 n-Nonane	43	8.134	8.134	(1.114)	25343	0.50000	0.484
	73 Styrene	104	8.147	8.147	(1.115)	25063	0.50000	0.449
	74 o-Xylene	91	8.208	8.208	(1.124)	39014	0.50000	0.455
	75 1,1,2,2-Tetrachloroethane	83	8.465	8.465	(1.159)	23975	0.50000	0.463
	76 Isopropylbenzene	105	8.774	8.774	(1.201)	55200	0.50000	0.468
	77 N-Propylbenzene	91	9.336	9.336	(1.278)	55759	0.50000	0.464

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.513	9.513	(1.302)	47256	0.50000	0.454(M)
79	1,3,5-Trimethylbenzene	105	9.597	9.597	(1.314)	42346	0.50000	0.477
80	n-Decane	57	10.002	10.002	(2.224)	17857	0.50000	0.431
81	Tert-Butyl Benzene	119	10.095	10.095	(1.382)	45459	0.50000	0.478
82	1,2,4-Trimethylbenzene	105	10.111	10.111	(1.384)	38158	0.50000	0.501
83	1,3-Dichlorobenzene	146	10.417	10.417	(1.426)	21473	0.50000	0.416
84	Sec- Butylbenzene	105	10.436	10.436	(1.429)	54430	0.50000	0.473
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.484	10.484	(1.435)	215151	10.0000	8.98
86	Benzyl Chloride	91	10.507	10.507	(1.438)	14306	0.50000	0.368
87	1,4-Dichlorobenzene	146	10.526	10.526	(1.441)	19551	0.50000	0.413
88	p-Isopropyltoluene	119	10.658	10.658	(1.459)	44107	0.50000	0.468(M)
89	1,2,3-Trimethylbenzene	105	10.700	10.700	(1.465)	34992	0.50000	0.450
90	1,2-Dichlorobenzene	146	10.995	10.995	(1.505)	19791	0.50000	0.435
91	N-Butylbenzene	91	11.249	11.249	(1.540)	28156	0.50000	0.444
92	1,2-Dibromo-3-Chloropropane	157	11.777	11.777	(1.612)	4103	0.50000	0.378
93	1,2,4-Trichlorobenzene	180	13.044	13.044	(1.786)	2814	0.50000	0.586
94	Naphthalene	128	13.166	13.166	(1.802)	6365	0.50000	0.421
95	Hexachlorobutadiene	225	13.426	13.426	(1.838)	8007	0.50000	0.356

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06306.D
Lab Smp Id: CAL3
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	934015	11.73
67 Chlorobenzene - d	539522	323713	755331	585394	8.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.21
67 Chlorobenzene - d	7.31	6.98	7.64	7.30	-0.13

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06306.D

Date : 04-MAR-2017 08:57

Client ID:

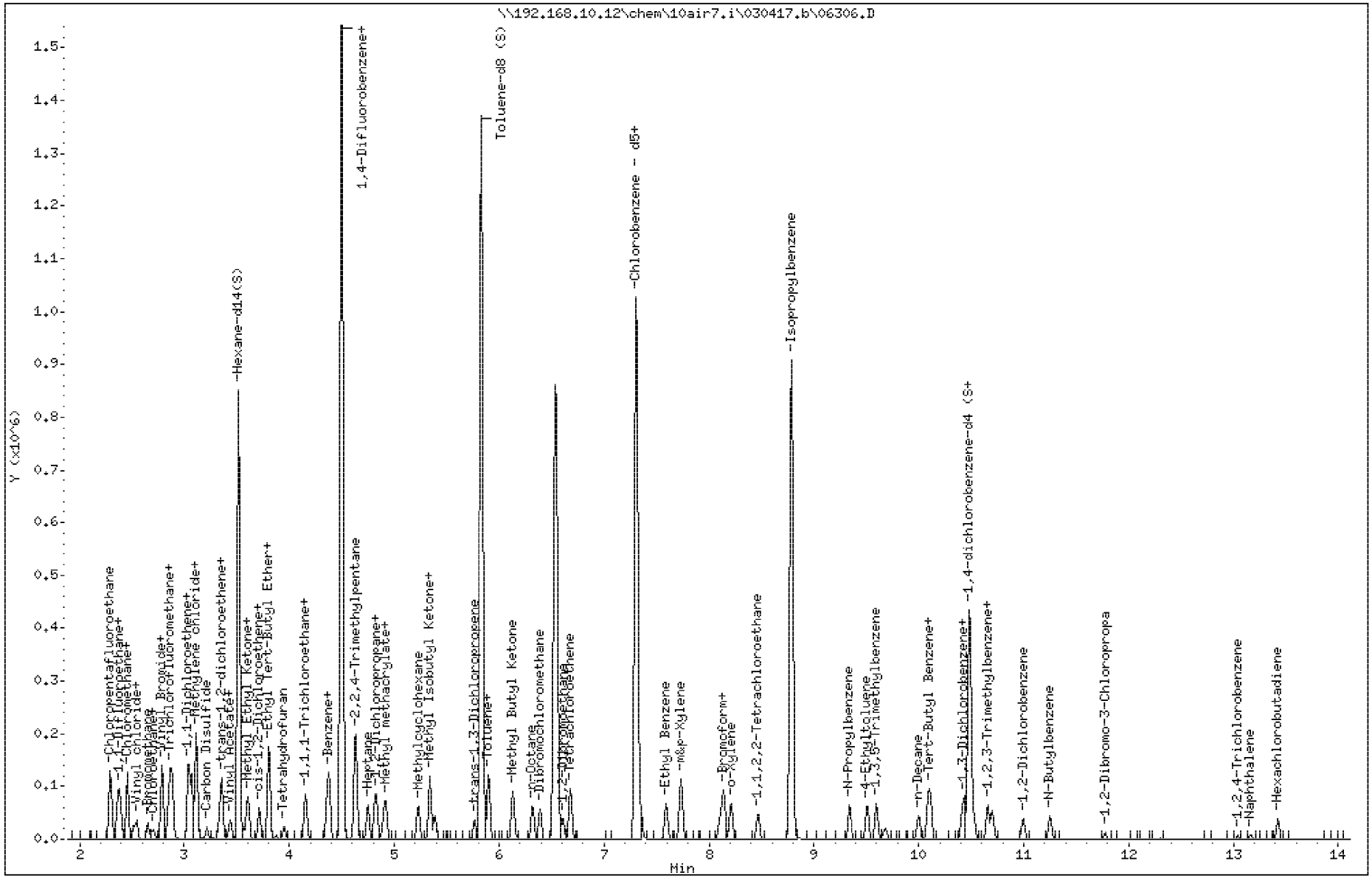
Instrument: 10air7.i

Sample Info:

Operator: MJL

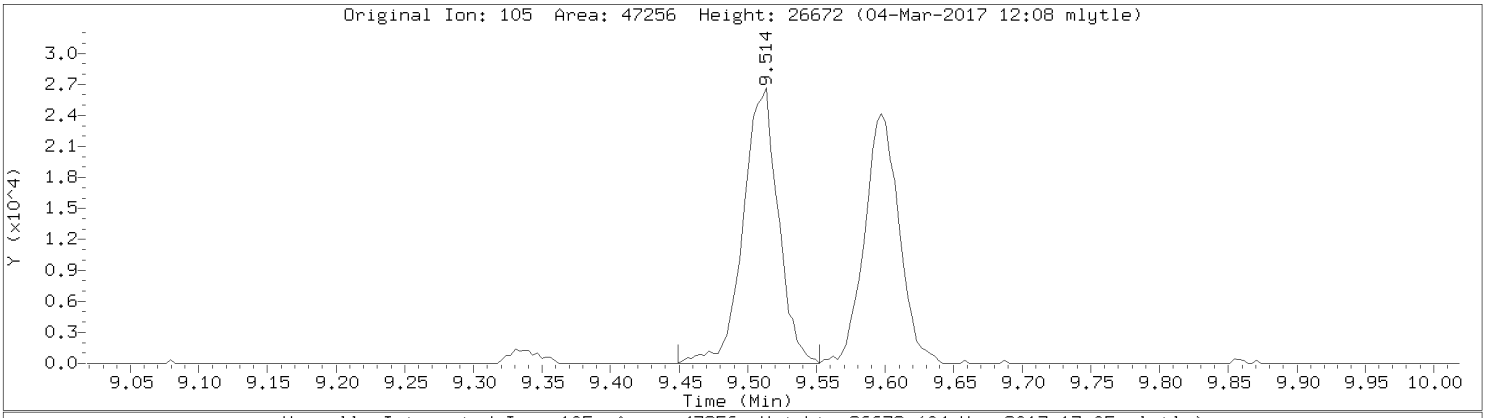
Column phase: J&W DB-5

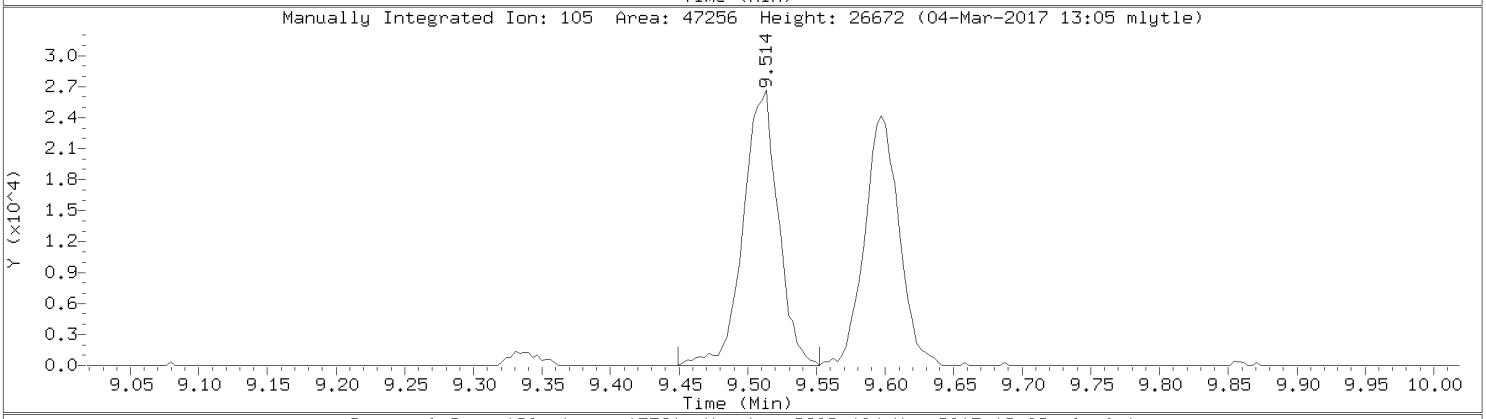
Column diameter: 0.32

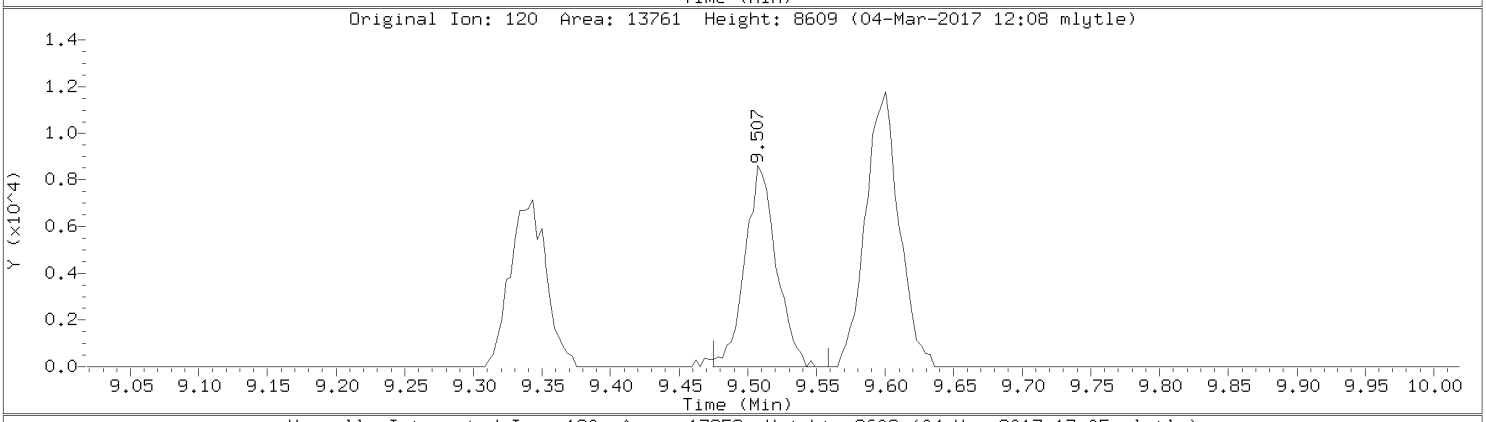


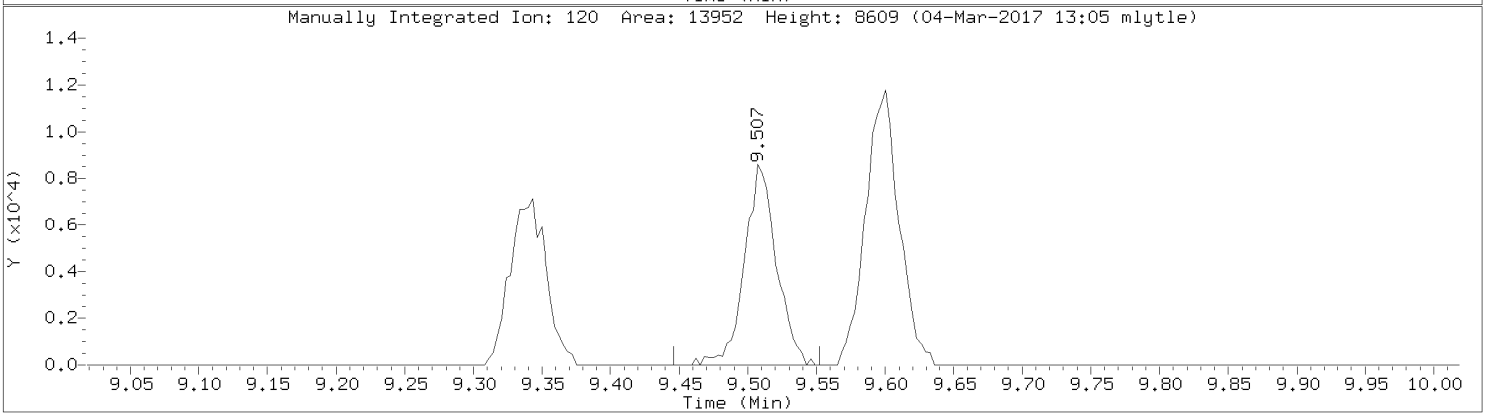
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06306.D
Injection Date: 04-MAR-2017 08:57
Instrument: 10air7.i
Lab Sample ID: CAL3

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

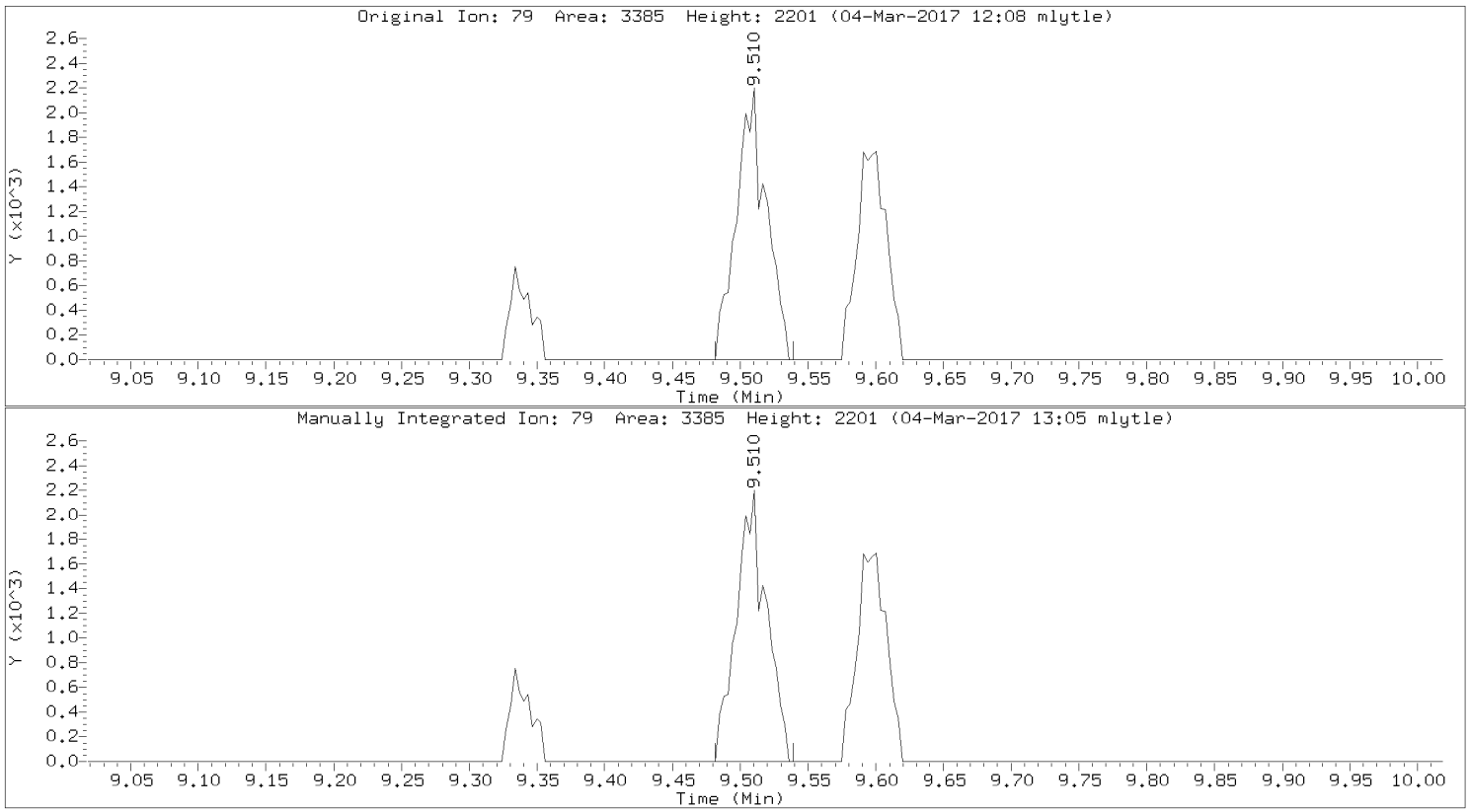






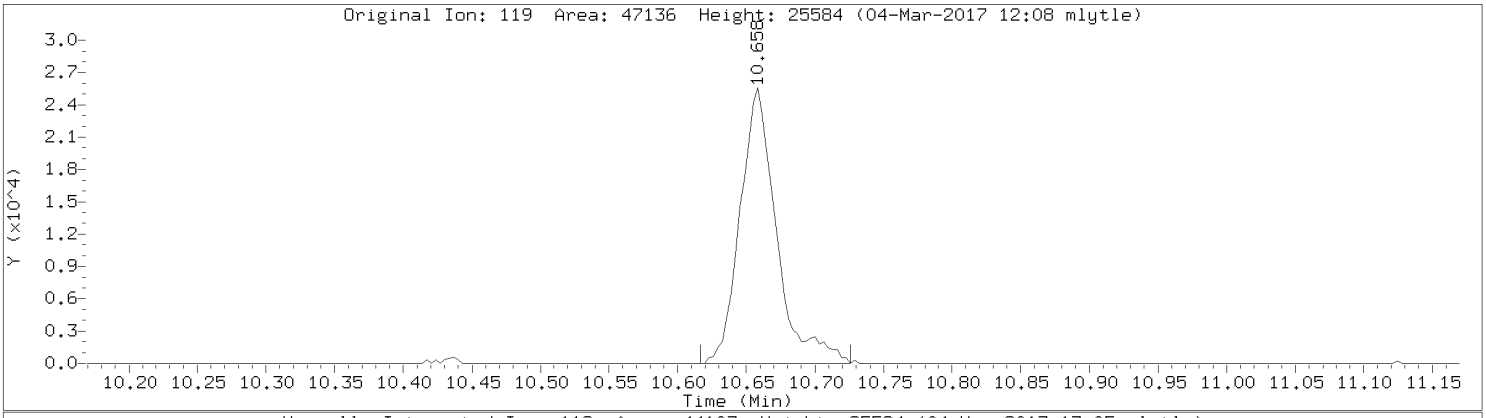


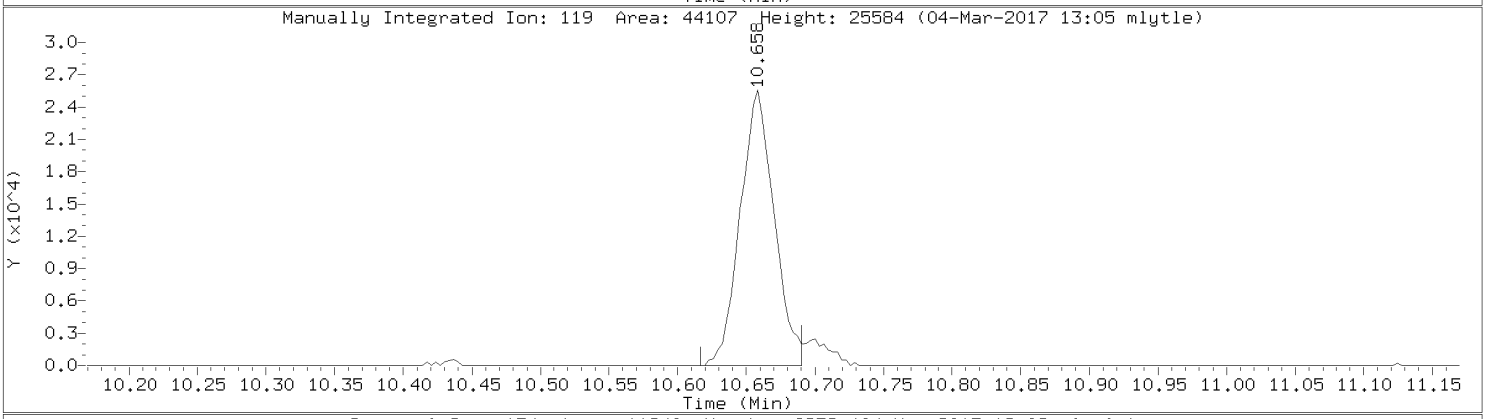
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06306.D
Injection Date: 04-MAR-2017 08:57
Instrument: 10air7.i
Lab Sample ID: CAL3

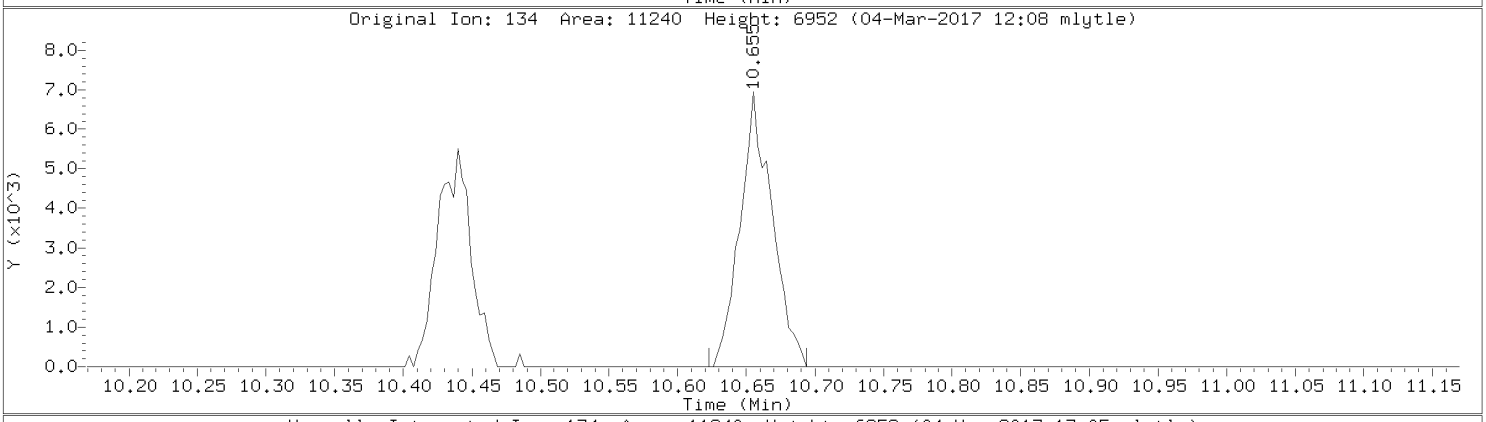


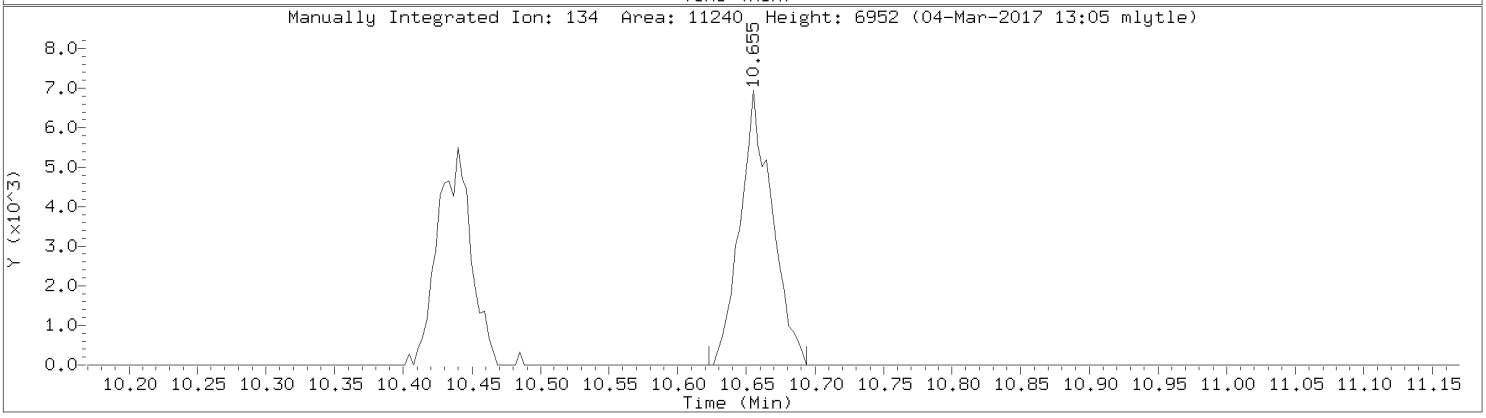
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06306.D
Injection Date: 04-MAR-2017 08:57
Instrument: 10air7.i
Lab Sample ID: CAL3

Compound: p-Isopropyltoluene
CAS Number: 99-87-6

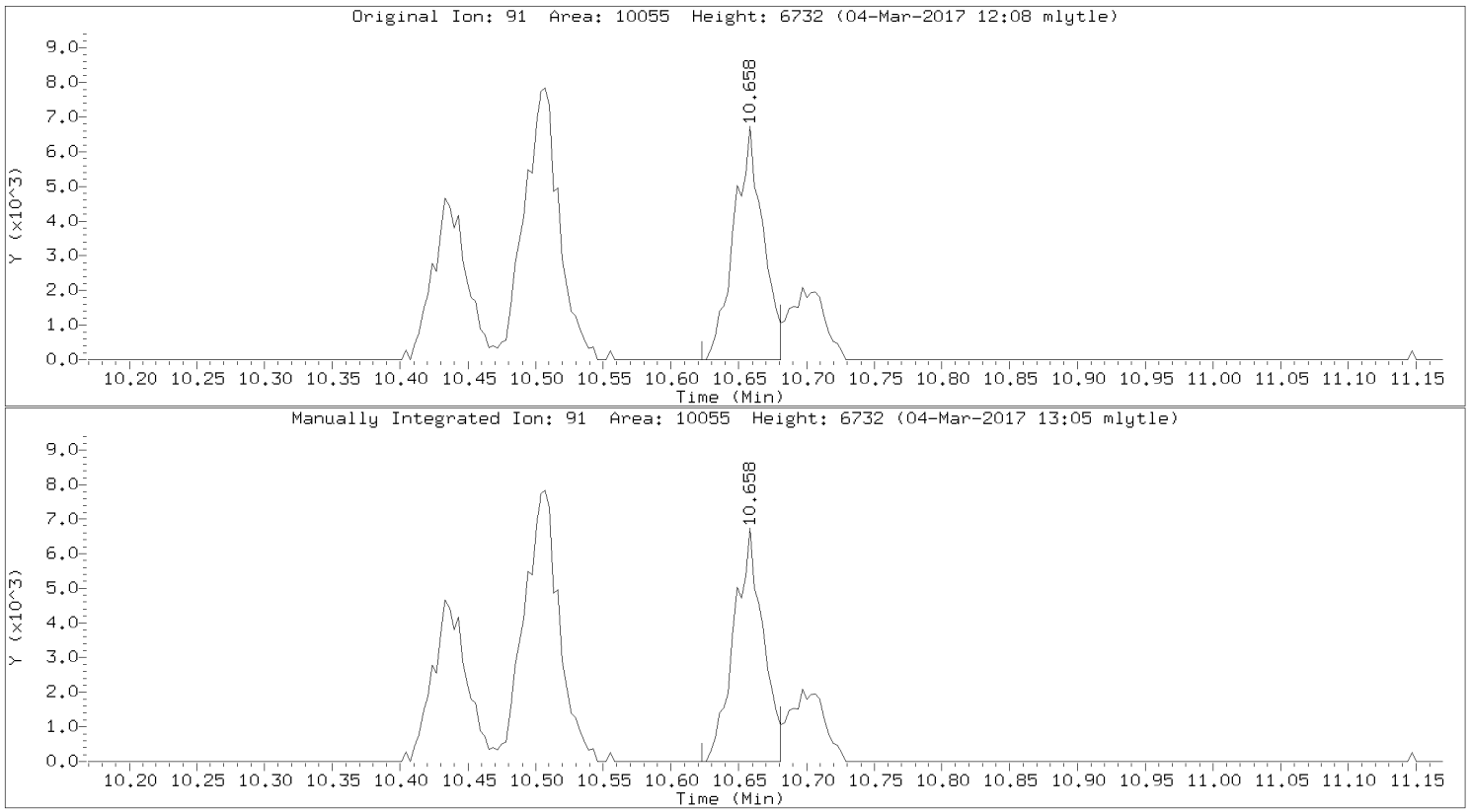








Data File: \\192.168.10.12\chem\10air7.i\030417.b/06306.D
Injection Date: 04-MAR-2017 08:57
Instrument: 10air7.i
Lab Sample ID: CAL3



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Lab Smp Id: CAL4
Inj Date : 04-MAR-2017 09:22
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:07 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 08:57 Cal File: 06306.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)	
1	Chloropentafluoroethane	85	2.314	2.314	(0.514)	1163	1.00000		(a)
2	1,1-Difluoroethane	65	2.362	2.362	(0.525)	12488	1.00000	0.952	
3	Chlorodifluoromethane	67	2.375	2.375	(0.528)	6338	1.00000	0.937	
4	Propylene	41	2.385	2.385	(0.530)	42059	1.00000	1.48	
5	Dichlorodifluoromethane	85	2.404	2.404	(0.534)	64467	1.00000	0.929	
6	Chloromethane	50	2.468	2.468	(0.548)	25672	1.00000	0.902	
7	Dichlorotetrafluoroethane	85	2.468	2.468	(0.548)	57297	1.00000	0.901	
8	Vinyl chloride	62	2.529	2.529	(0.562)	17619	1.00000	0.843	
9	1,3-Butadiene	54	2.558	2.558	(0.569)	12525	1.00000	0.818	
10	Bromomethane	94	2.661	2.661	(0.591)	18719	1.00000	0.824	
11	Chloroethane	64	2.693	2.693	(0.599)	6994	1.00000	0.857	
12	Ethanol	45	2.716	2.716	(0.604)	25408	5.00000	4.21	
13	Vinyl Bromide	106	2.787	2.787	(0.619)	19906	1.00000	0.846	
14	Isopentane	43	2.799	2.799	(0.622)	19252	1.00000	0.842	
15	Freon 123	83	2.796	2.796	(0.621)	43211	1.00000	0.822	
16	Trichlorofluoromethane	101	2.857	2.857	(0.635)	58896	1.00000	0.854	
17	Acrolein	56	2.848	2.848	(0.633)	11079	2.50000	1.95	
18	Acetone	43	2.873	2.873	(0.639)	174898	5.00000	4.36	
19	Isopropyl Alcohol	45	2.889	2.889	(0.642)	136434	5.00000	4.05	
20	1,1-Dichloroethene	61	3.047	3.047	(0.677)	32191	1.00000	0.844	
21	Acrylonitrile	53	3.044	3.044	(0.676)	30219	2.50000	1.94	
22	Freon 113	101	3.076	3.076	(0.684)	44321	1.00000	0.859	
23	Tert Butyl Alcohol (TBA)	59	3.047	3.047	(0.677)	93650	2.50000	2.08	

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.073	3.073	(0.683)	33139	1.00000	0.724(Q)
	25 Methylene chloride	49	3.118	3.118	(0.693)	119177	5.00000	4.25
	26 Allyl Chloride	76	3.127	3.127	(0.695)	11970	2.50000	1.81
	27 Carbon Disulfide	76	3.224	3.224	(0.716)	39741	1.00000	0.821
	28 trans-1,2-dichloroethene	96	3.340	3.340	(0.742)	16360	1.00000	0.798
	29 Methyl Tert Butyl Ether	73	3.359	3.359	(0.746)	116755	2.50000	2.11
	30 Vinyl Acetate	43	3.433	3.433	(0.763)	32200	1.00000	0.667
	31 1,1-Dichloroethane	63	3.449	3.449	(0.766)	33127	1.00000	0.824
$	32 Hexane-d14(S)	66	3.523	3.523	(0.783)	228063	10.0000	9.37
	33 Methyl Ethyl Ketone	72	3.578	3.578	(0.795)	6169	1.00000	0.814(Q)
	34 n-Hexane	57	3.606	3.606	(0.801)	23767	1.00000	0.794
	35 Di-isopropyl Ether	45	3.616	3.616	(0.804)	61862	1.00000	0.828
	36 cis-1,2-Dichloroethene	96	3.719	3.719	(0.826)	18045	1.00000	0.815
	37 Ethyl Acetate	43	3.716	3.716	(0.826)	36681	1.00000	0.772
	38 Ethyl Tert-Butyl Ether	59	3.809	3.809	(0.846)	149334	2.50000	2.14
	39 Chloroform	83	3.815	3.815	(0.848)	42316	1.00000	0.856
	40 Tetrahydrofuran	42	3.950	3.950	(0.878)	17808	1.00000	0.769
	41 1,1,1-Trichloroethane	97	4.159	4.159	(0.924)	56613	1.00000	0.937
	42 1,2-Dichloroethane	62	4.166	4.166	(0.926)	36538	1.00000	0.898
	43 Benzene	78	4.362	4.362	(0.969)	59556	1.00000	0.862
	44 Carbon tetrachloride	117	4.378	4.378	(0.973)	57215	1.00000	0.863
	45 Cyclohexane	56	4.385	4.385	(0.974)	29817	1.00000	0.861
	46 Tert Amyl Methyl Ether	73	4.494	4.494	(0.999)	67237	1.00000	0.763
*	47 1,4-Difluorobenzene	114	4.500	4.500	(1.000)	891683	10.0000	
	48 2,2,4-Trimethylpentane	57	4.632	4.632	(1.029)	251594	2.50000	2.27
	49 Heptane	43	4.751	4.751	(1.056)	40069	1.00000	0.885
	50 1,2-Dichloropropane	63	4.815	4.815	(1.070)	23444	1.00000	0.881
	51 Trichloroethene	130	4.835	4.835	(1.074)	37344	1.00000	0.888
	52 Methyl methacrylate	69	4.899	4.899	(1.089)	16977	1.00000	0.823
	53 Bromodichloromethane	83	4.922	4.922	(1.094)	49611	1.00000	0.856
	54 1,4-Dioxane	88	4.915	4.915	(1.092)	8840	1.00000	0.771
	55 Methylcyclohexane	98	5.230	5.230	(1.162)	13708	1.00000	0.916
	56 Methyl Isobutyl Ketone	43	5.340	5.340	(1.186)	134273	2.50000	2.22
	57 cis-1,3-Dichloropropene	75	5.391	5.391	(1.198)	33619	1.00000	0.865
	58 trans-1,3-Dichloropropene	75	5.764	5.764	(1.281)	29021	1.00000	0.825
$	59 Toluene-d8 (S)	98	5.831	5.831	(1.296)	742857	10.0000	9.92
	60 Toluene	91	5.902	5.902	(1.311)	75998	1.00000	0.902
	61 1,1,2-Trichloroethane	97	5.905	5.905	(1.312)	27357	1.00000	0.862
	62 Methyl Butyl Ketone	43	6.127	6.127	(0.839)	111463	2.50000	2.05
	63 n-Octane	43	6.320	6.320	(0.865)	49592	1.00000	0.877
	64 Dibromochloromethane	129	6.391	6.391	(0.875)	54783	1.00000	0.832
	65 1,2-Dibromoethane	107	6.610	6.610	(0.905)	44128	1.00000	0.854
	66 Tetrachloroethene	166	6.684	6.684	(0.915)	50129	1.00000	0.891
*	67 Chlorobenzene - d5	117	7.307	7.307	(1.000)	567428	10.0000	
	68 Chlorobenzene	112	7.346	7.346	(1.005)	59698	1.00000	0.873
	69 Ethyl Benzene	91	7.590	7.590	(1.039)	91250	1.00000	0.861
	70 m&p-Xylene	91	7.735	7.735	(1.059)	139561	2.00000	1.68
	71 Bromoform	173	8.101	8.101	(1.109)	37930	1.00000	0.710
	72 n-Nonane	43	8.130	8.130	(1.113)	46287	1.00000	0.911
	73 Styrene	104	8.146	8.146	(1.115)	46935	1.00000	0.867
	74 o-Xylene	91	8.208	8.208	(1.123)	72238	1.00000	0.869
	75 1,1,2,2-Tetrachloroethane	83	8.465	8.465	(1.158)	40850	1.00000	0.814
	76 Isopropylbenzene	105	8.777	8.777	(1.201)	100618	1.00000	0.881
	77 N-Propylbenzene	91	9.336	9.336	(1.278)	101302	1.00000	0.869

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.510	9.510	(1.301)	85339	1.00000	0.845(M)
79	1,3,5-Trimethylbenzene	105	9.600	9.600	(1.314)	76100	1.00000	0.883
80	n-Decane	57	10.002	10.002	(2.222)	35067	1.00000	0.886
81	Tert-Butyl Benzene	119	10.092	10.092	(1.381)	84237	1.00000	0.913
82	1,2,4-Trimethylbenzene	105	10.111	10.111	(1.384)	70599	1.00000	0.957
83	1,3-Dichlorobenzene	146	10.413	10.413	(1.425)	40641	1.00000	0.813
84	Sec- Butylbenzene	105	10.436	10.436	(1.428)	100878	1.00000	0.905
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.484	10.484	(1.435)	223323	10.0000	9.62
86	Benzyl Chloride	91	10.507	10.507	(1.438)	24871	1.00000	0.661
87	1,4-Dichlorobenzene	146	10.523	10.523	(1.440)	35912	1.00000	0.783
88	p-Isopropyltoluene	119	10.658	10.658	(1.458)	82478	1.00000	0.902
89	1,2,3-Trimethylbenzene	105	10.703	10.703	(1.465)	64626	1.00000	0.858
90	1,2-Dichlorobenzene	146	10.995	10.995	(1.505)	36390	1.00000	0.824
91	N-Butylbenzene	91	11.252	11.252	(1.540)	52074	1.00000	0.847
92	1,2-Dibromo-3-Chloropropane	157	11.773	11.773	(1.611)	7290	1.00000	0.693
93	1,2,4-Trichlorobenzene	180	13.047	13.047	(1.785)	4736	1.00000	0.971
94	Naphthalene	128	13.166	13.166	(1.802)	10481	1.00000	0.887(M)
95	Hexachlorobutadiene	225	13.423	13.423	(1.837)	17276	1.00000	1.23

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06307.D
Lab Smp Id: CAL4
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	891683	6.66
67 Chlorobenzene - d	539522	323713	755331	567428	5.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.15
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06307.D

Date : 04-MAR-2017 09:22

Client ID:

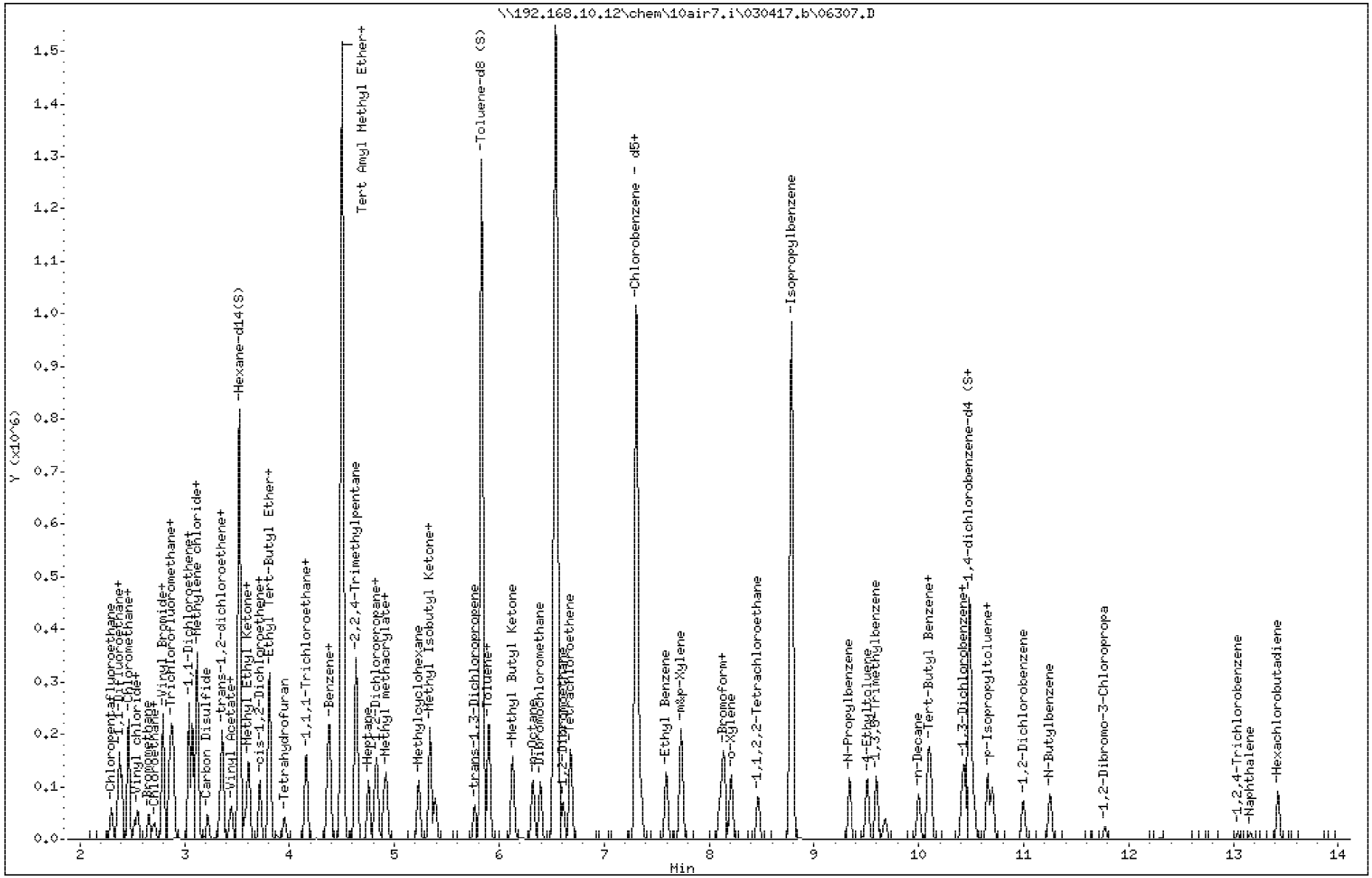
Instrument: 10air7.i

Sample Info:

Operator: MJL

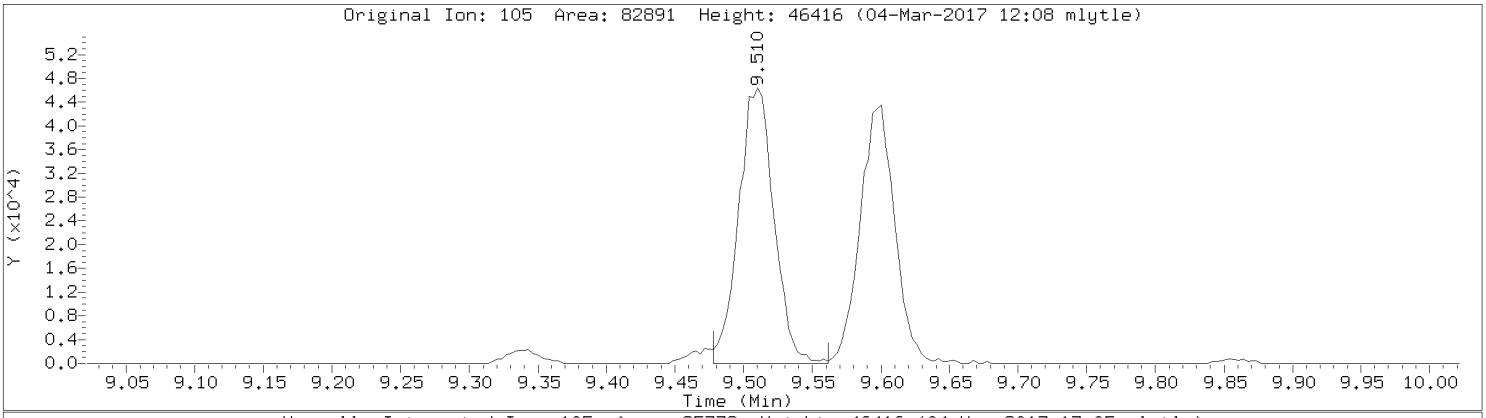
Column phase: J&W DB-5

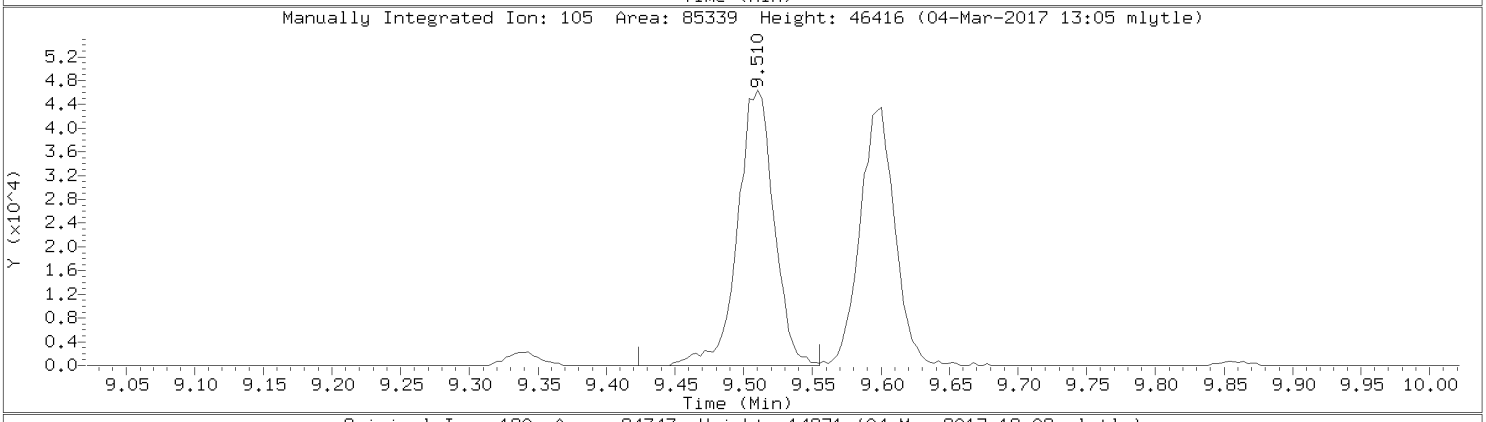
Column diameter: 0.32

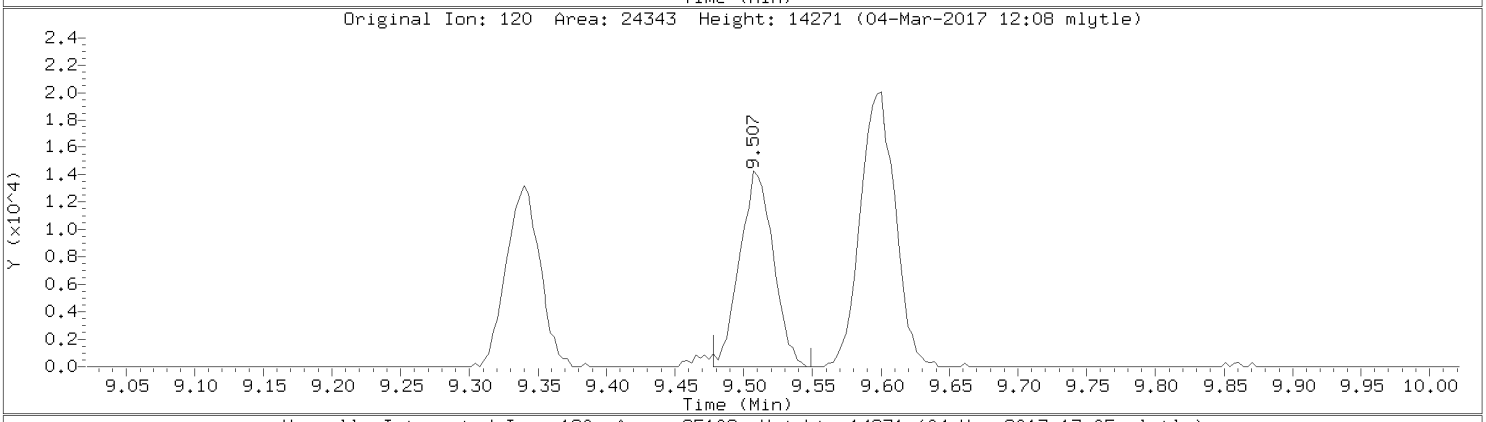


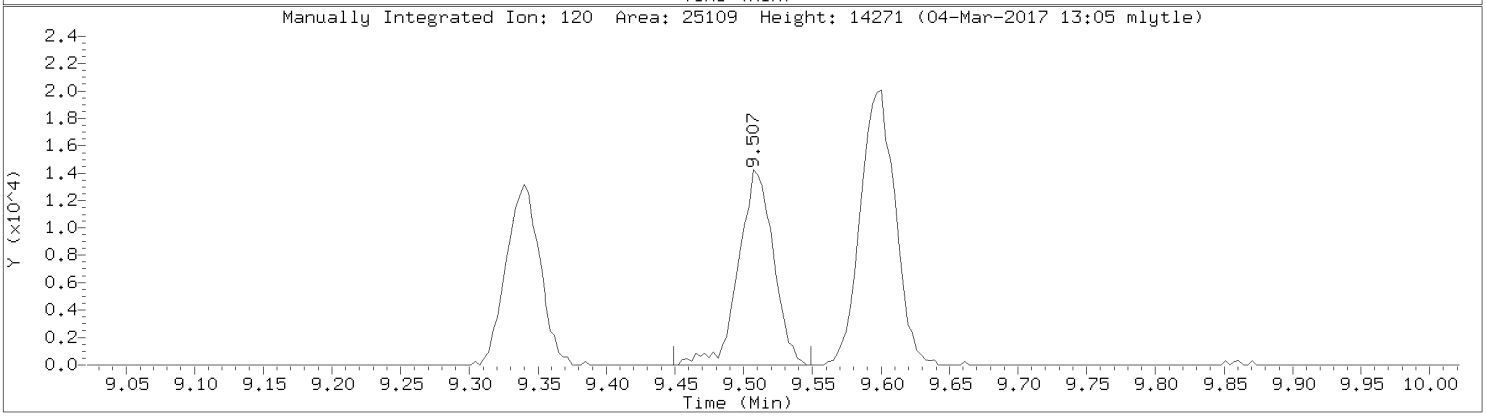
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06307.D
Injection Date: 04-MAR-2017 09:22
Instrument: 10air7.i
Lab Sample ID: CAL4

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

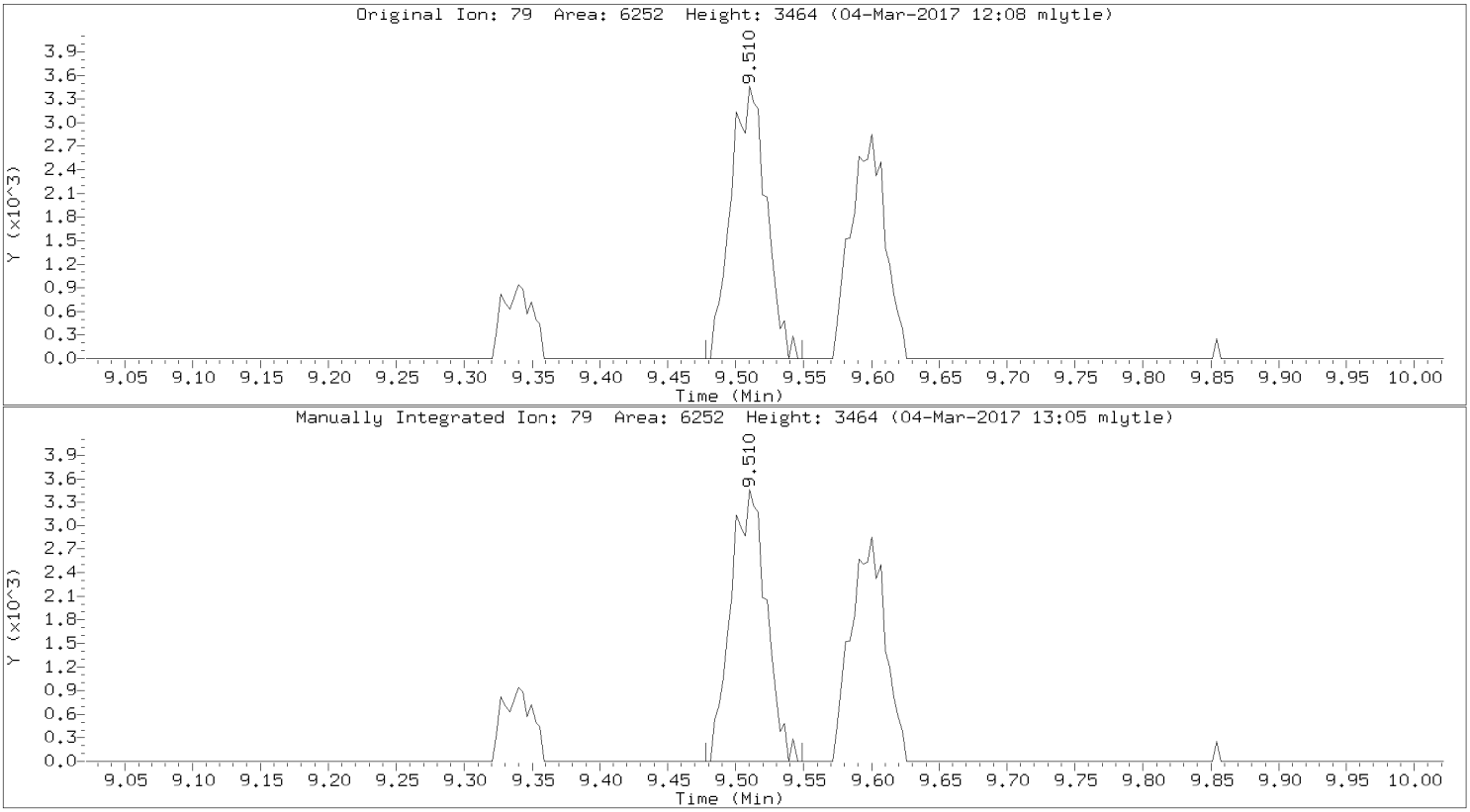






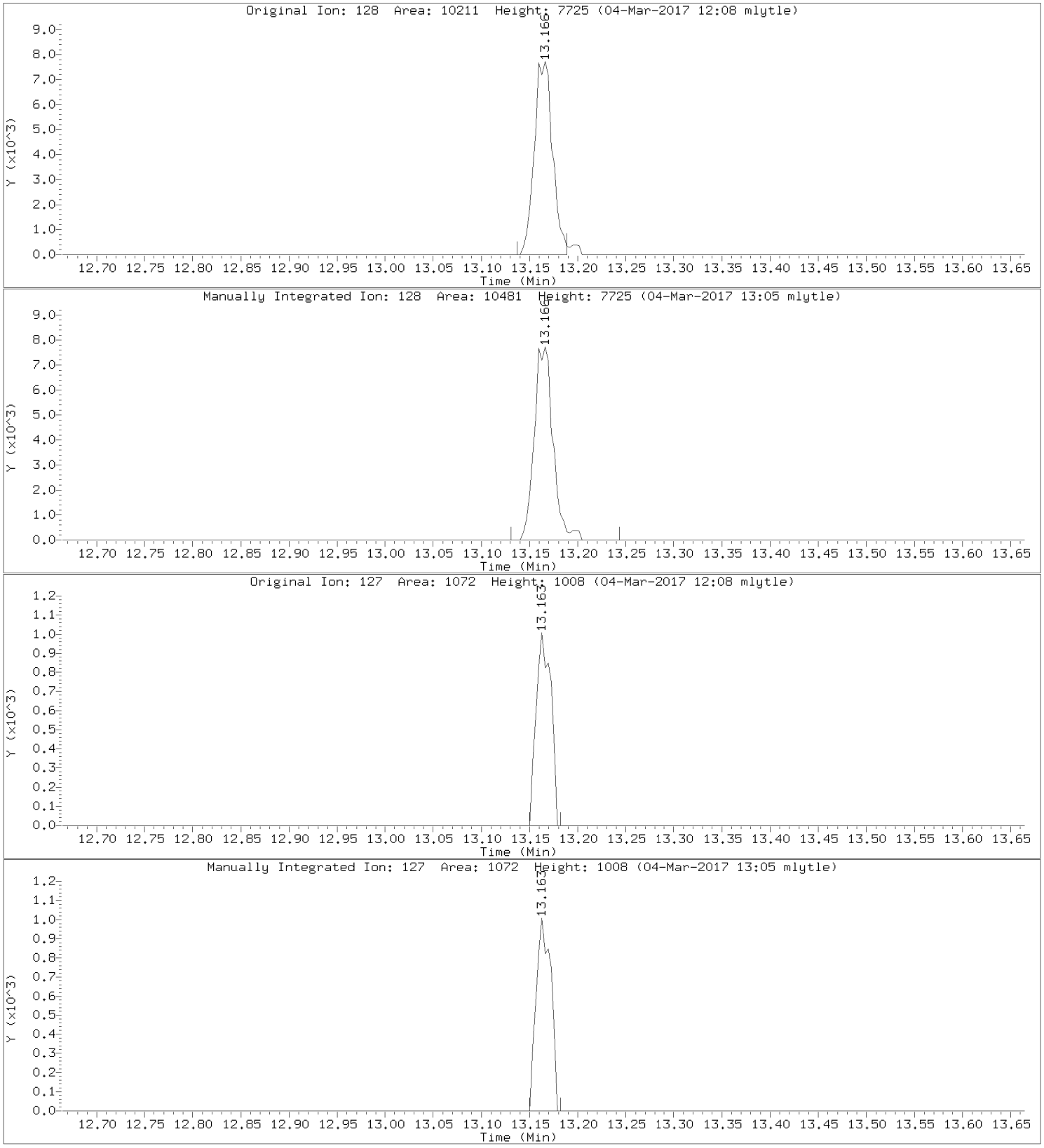


Data File: \\192.168.10.12\chem\10air7.i\030417.b/06307.D
Injection Date: 04-MAR-2017 09:22
Instrument: 10air7.i
Lab Sample ID: CAL4



Data File: \\192.168.10.12\chem\10air7.i\030417.b/06307.D
Injection Date: 04-MAR-2017 09:22
Instrument: 10air7.i
Lab Sample ID: CAL4

Compound: Naphthalene
CAS Number: 91-20-3



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Lab Smp Id: CAL5
Inj Date : 04-MAR-2017 09:46
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:07 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 09:22 Cal File: 06307.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.317	2.317	(0.514)	44166	10.0000	(a)
2	1,1-Difluoroethane	65	2.362	2.362	(0.524)	127805	10.0000	10.4
3	Chlorodifluoromethane	67	2.372	2.372	(0.526)	68635	10.0000	10.8(Q)
4	Propylene	41	2.382	2.382	(0.528)	180601	10.0000	10.3
5	Dichlorodifluoromethane	85	2.401	2.401	(0.533)	677712	10.0000	10.4
6	Chloromethane	50	2.468	2.468	(0.548)	265241	10.0000	9.94
7	Dichlorotetrafluoroethane	85	2.468	2.468	(0.548)	596743	10.0000	10.0
8	Vinyl chloride	62	2.526	2.526	(0.561)	190841	10.0000	9.74
9	1,3-Butadiene	54	2.555	2.555	(0.567)	138102	10.0000	9.62
10	Bromomethane	94	2.661	2.661	(0.591)	207426	10.0000	9.73
11	Chloroethane	64	2.697	2.697	(0.598)	74522	10.0000	9.74
12	Ethanol	45	2.722	2.722	(0.604)	311854	50.0000	55.1
13	Vinyl Bromide	106	2.787	2.787	(0.618)	217920	10.0000	9.88
14	Isopentane	43	2.800	2.800	(0.621)	202370	10.0000	9.44
15	Freon 123	83	2.800	2.800	(0.621)	480863	10.0000	9.76
16	Trichlorofluoromethane	101	2.861	2.861	(0.635)	635559	10.0000	9.83
17	Acrolein	56	2.848	2.848	(0.632)	159583	25.0000	30.0
18	Acetone	43	2.877	2.877	(0.638)	1610669	50.0000	42.8(M)
19	Isopropyl Alcohol	45	2.899	2.899	(0.643)	1581638	50.0000	50.1(QM)
20	1,1-Dichloroethene	61	3.047	3.047	(0.676)	354657	10.0000	9.91
21	Acrylonitrile	53	3.047	3.047	(0.676)	365640	25.0000	25.0
22	Freon 113	101	3.076	3.076	(0.683)	477353	10.0000	9.87
23	Tert Butyl Alcohol (TBA)	59	3.057	3.057	(0.678)	1109672	25.0000	26.3

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.073	3.073	(0.682)	422151	10.0000	9.83(M)
	25 Methylene chloride	49	3.121	3.121	(0.693)	1252296	50.0000	47.7
	26 Allyl Chloride	76	3.131	3.131	(0.695)	182379	25.0000	29.4(Q)
	27 Carbon Disulfide	76	3.224	3.224	(0.715)	457849	10.0000	10.1
	28 trans-1,2-dichloroethene	96	3.343	3.343	(0.742)	192420	10.0000	10.0
	29 Methyl Tert Butyl Ether	73	3.362	3.362	(0.746)	1292391	25.0000	24.9
	30 Vinyl Acetate	43	3.439	3.439	(0.763)	554246	10.0000	12.2
	31 1,1-Dichloroethane	63	3.455	3.455	(0.767)	363990	10.0000	9.66
$	32 Hexane-d14(S)	66	3.523	3.523	(0.782)	223216	10.0000	9.78
	33 Methyl Ethyl Ketone	72	3.574	3.574	(0.793)	69437	10.0000	9.78(M)
	34 n-Hexane	57	3.607	3.607	(0.800)	269375	10.0000	9.59
	35 Di-isopropyl Ether	45	3.616	3.616	(0.802)	672298	10.0000	9.59
	36 cis-1,2-Dichloroethene	96	3.722	3.722	(0.826)	209223	10.0000	10.1
	37 Ethyl Acetate	43	3.719	3.719	(0.825)	436276	10.0000	9.80
	38 Ethyl Tert-Butyl Ether	59	3.812	3.812	(0.846)	1647148	25.0000	25.2
	39 Chloroform	83	3.822	3.822	(0.848)	474303	10.0000	10.2
	40 Tetrahydrofuran	42	3.951	3.951	(0.877)	210350	10.0000	9.68
	41 1,1,1-Trichloroethane	97	4.163	4.163	(0.924)	586737	10.0000	10.4
	42 1,2-Dichloroethane	62	4.172	4.172	(0.926)	395910	10.0000	10.4
	43 Benzene	78	4.372	4.372	(0.970)	635062	10.0000	9.80
	44 Carbon tetrachloride	117	4.385	4.385	(0.973)	704654	10.0000	11.3
	45 Cyclohexane	56	4.388	4.388	(0.974)	315878	10.0000	9.73
	46 Tert Amyl Methyl Ether	73	4.494	4.494	(0.997)	631504	10.0000	11.0
*	47 1,4-Difluorobenzene	114	4.507	4.507	(1.000)	835982	10.0000	
	48 2,2,4-Trimethylpentane	57	4.642	4.642	(1.030)	2434296	25.0000	23.4
	49 Heptane	43	4.758	4.758	(1.056)	401156	10.0000	9.45
	50 1,2-Dichloropropane	63	4.819	4.819	(1.069)	241477	10.0000	9.68
	51 Trichloroethene	130	4.841	4.841	(1.074)	377153	10.0000	9.56
	52 Methyl methacrylate	69	4.906	4.906	(1.088)	197820	10.0000	10.2
	53 Bromodichloromethane	83	4.928	4.928	(1.093)	581353	10.0000	10.7
	54 1,4-Dioxane	88	4.912	4.912	(1.090)	112983	10.0000	10.5
	55 Methylcyclohexane	98	5.237	5.237	(1.162)	139112	10.0000	9.91
	56 Methyl Isobutyl Ketone	43	5.343	5.343	(1.185)	1387611	25.0000	24.5
	57 cis-1,3-Dichloropropene	75	5.394	5.394	(1.197)	382696	10.0000	10.5
	58 trans-1,3-Dichloropropene	75	5.767	5.767	(1.280)	368669	10.0000	11.2
$	59 Toluene-d8 (S)	98	5.838	5.838	(1.295)	700611	10.0000	9.98
	60 Toluene	91	5.909	5.909	(1.311)	763373	10.0000	9.66
	61 1,1,2-Trichloroethane	97	5.912	5.912	(1.312)	289096	10.0000	9.71
	62 Methyl Butyl Ketone	43	6.127	6.127	(0.838)	1240867	25.0000	24.0
	63 n-Octane	43	6.327	6.327	(0.865)	526367	10.0000	9.79
	64 Dibromochloromethane	129	6.401	6.401	(0.875)	712329	10.0000	11.4
	65 1,2-Dibromoethane	107	6.613	6.613	(0.904)	510774	10.0000	10.4
	66 Tetrachloroethene	166	6.687	6.687	(0.914)	520542	10.0000	9.73
*	67 Chlorobenzene - d5	117	7.314	7.314	(1.000)	539522	10.0000	
	68 Chlorobenzene	112	7.352	7.352	(1.005)	645942	10.0000	9.93
	69 Ethyl Benzene	91	7.597	7.597	(1.039)	970563	10.0000	9.63
	70 m&p-Xylene	91	7.738	7.738	(1.058)	1483363	20.0000	18.8
	71 Bromoform	173	8.108	8.108	(1.109)	672881	10.0000	13.2
	72 n-Nonane	43	8.134	8.134	(1.112)	506899	10.0000	10.5
	73 Styrene	104	8.150	8.150	(1.114)	533520	10.0000	10.4
	74 o-Xylene	91	8.214	8.214	(1.123)	753757	10.0000	9.54
	75 1,1,2,2-Tetrachloroethane	83	8.471	8.471	(1.158)	466052	10.0000	9.76
	76 Isopropylbenzene	105	8.780	8.780	(1.200)	1062475	10.0000	9.78
	77 N-Propylbenzene	91	9.343	9.343	(1.277)	1120900	10.0000	10.1

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Report Date: 04-Mar-2017 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.513	9.513	(1.301)	954715	10.0000	9.94
79	1,3,5-Trimethylbenzene	105	9.600	9.600	(1.313)	797469	10.0000	9.74
80	n-Decane	57	10.005	10.005	(2.220)	397114	10.0000	10.7
81	Tert-Butyl Benzene	119	10.095	10.095	(1.380)	841040	10.0000	9.59
82	1,2,4-Trimethylbenzene	105	10.114	10.114	(1.383)	725562	10.0000	10.3
83	1,3-Dichlorobenzene	146	10.417	10.417	(1.424)	473421	10.0000	9.96
84	Sec- Butylbenzene	105	10.439	10.439	(1.427)	1029073	10.0000	9.71
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.487	10.487	(1.434)	237383	10.0000	10.8
86	Benzyl Chloride	91	10.507	10.507	(1.437)	407481	10.0000	11.4(M)
87	1,4-Dichlorobenzene	146	10.529	10.529	(1.440)	429211	10.0000	9.85
88	p-Isopropyltoluene	119	10.661	10.661	(1.458)	858242	10.0000	9.87
89	1,2,3-Trimethylbenzene	105	10.706	10.706	(1.464)	662598	10.0000	9.25
90	1,2-Dichlorobenzene	146	10.999	10.999	(1.504)	410518	10.0000	9.78
91	N-Butylbenzene	91	11.253	11.253	(1.538)	588769	10.0000	10.1
92	1,2-Dibromo-3-Chloropropane	157	11.773	11.773	(1.610)	115991	10.0000	11.6
93	1,2,4-Trichlorobenzene	180	13.044	13.044	(1.783)	45723	10.0000	9.27
94	Naphthalene	128	13.162	13.162	(1.800)	90166	10.0000	10.0
95	Hexachlorobutadiene	225	13.426	13.426	(1.836)	106467	10.0000	10.5

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Report Date: 04-Mar-2017 13:07

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06308.D
Lab Smp Id: CAL5
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

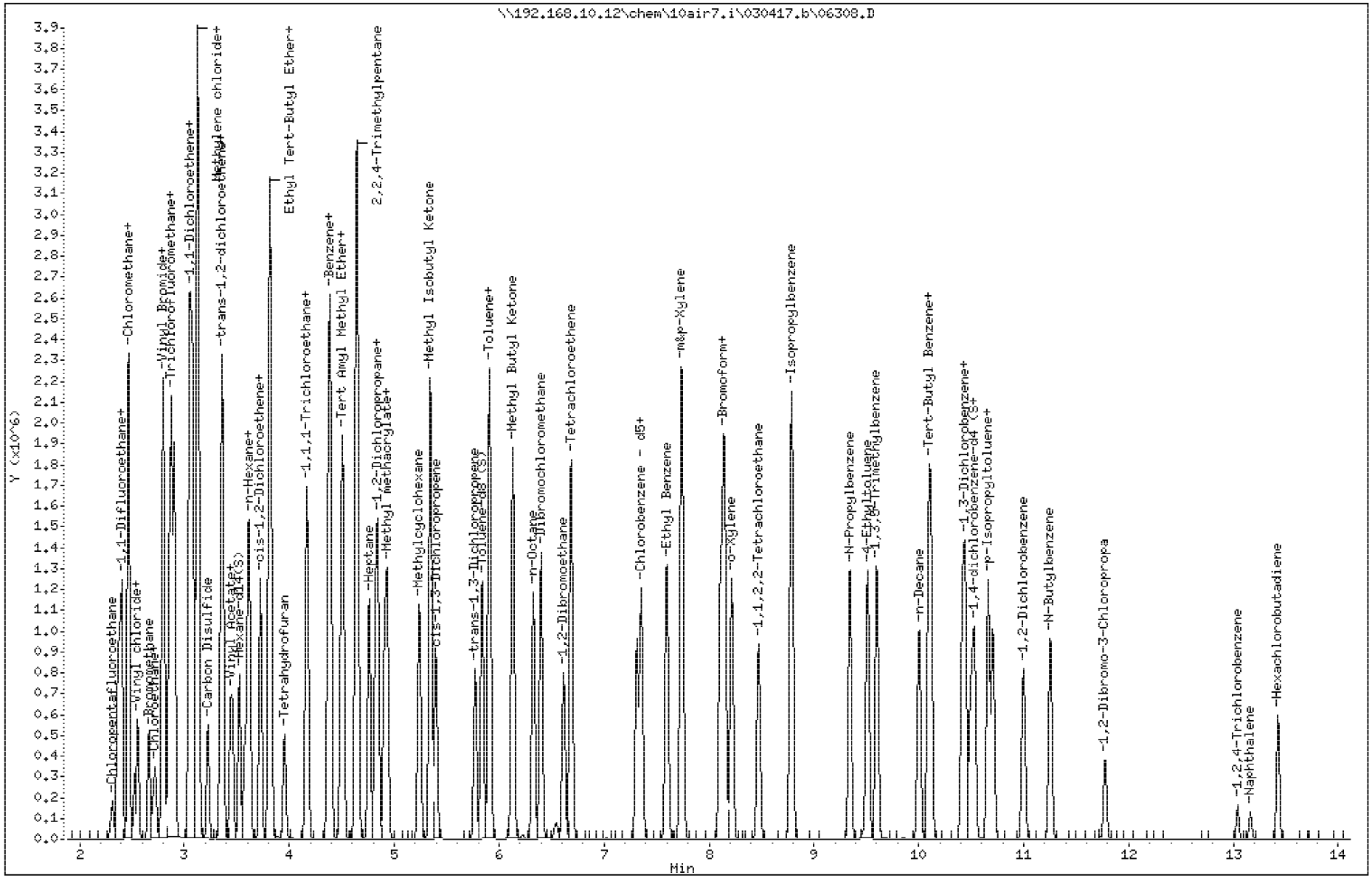
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	835982	0.00
67 Chlorobenzene - d	539522	323713	755331	539522	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.51	0.00
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

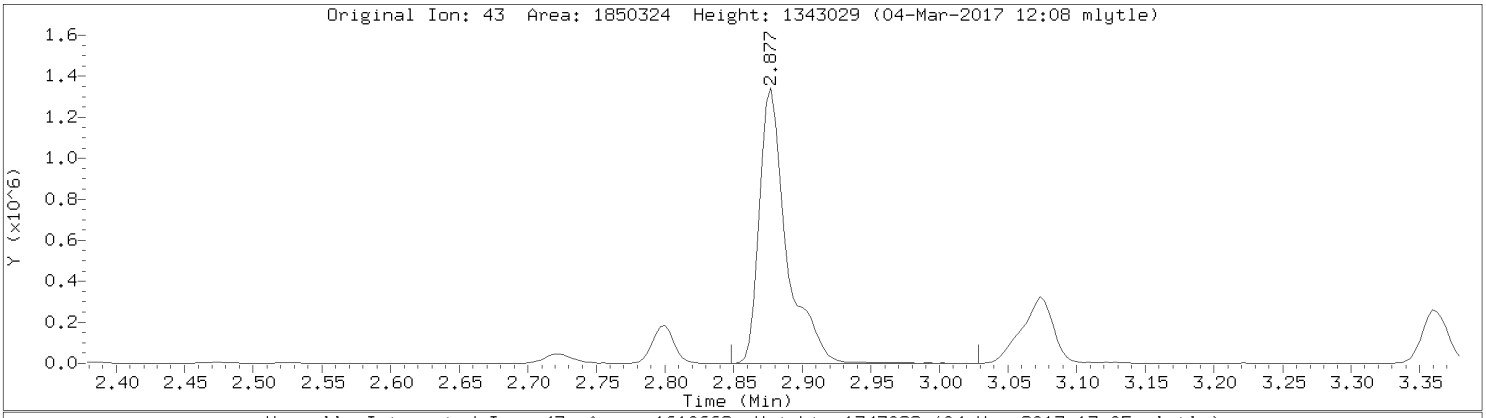
Data File: \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Date : 04-MAR-2017 09:46
Client ID:
Sample Info:

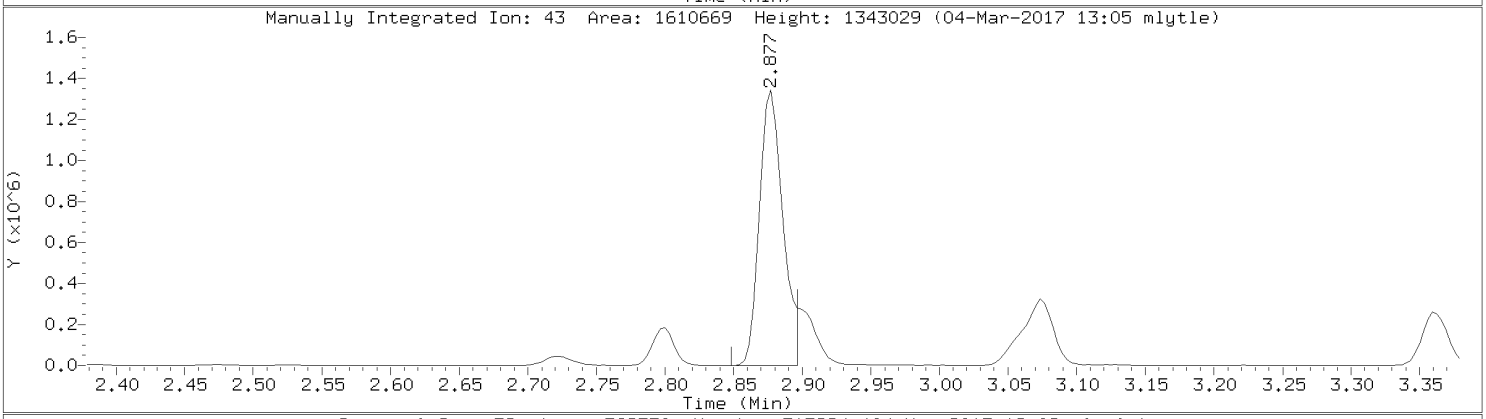
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

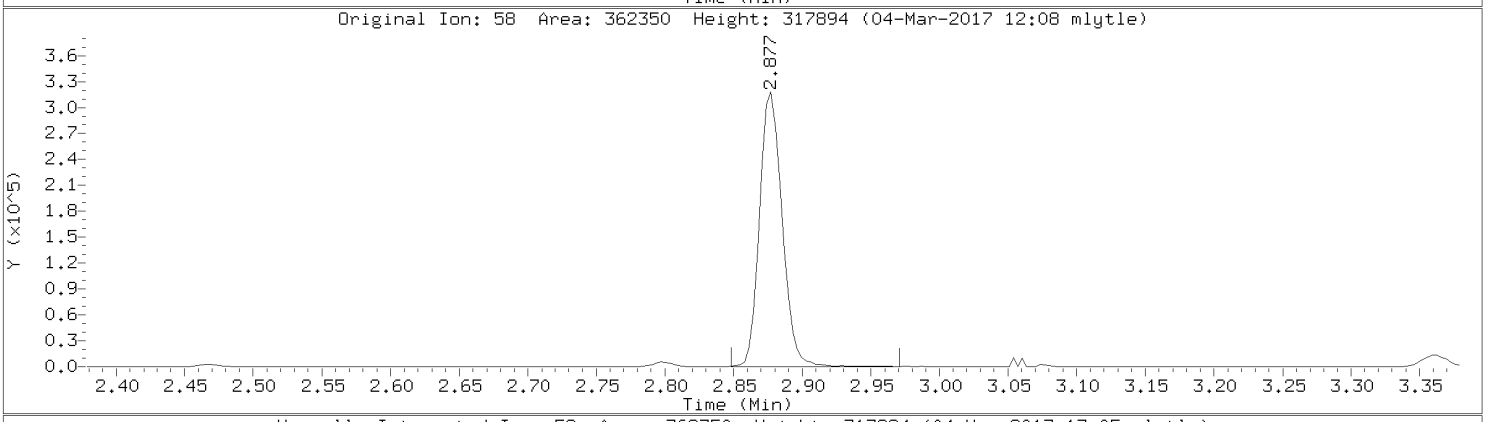


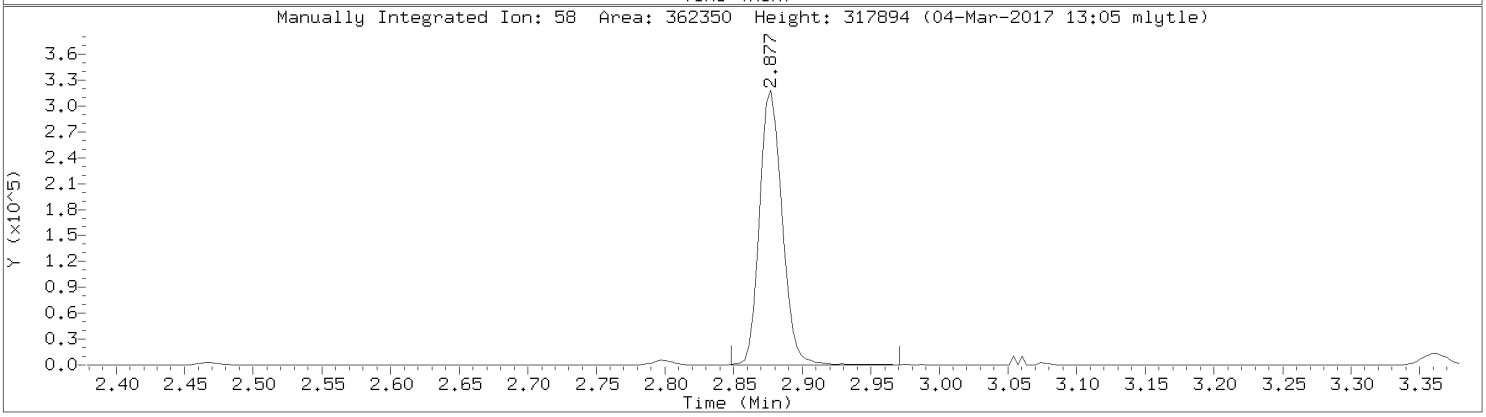
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5

Compound: Acetone
CAS Number: 67-64-1



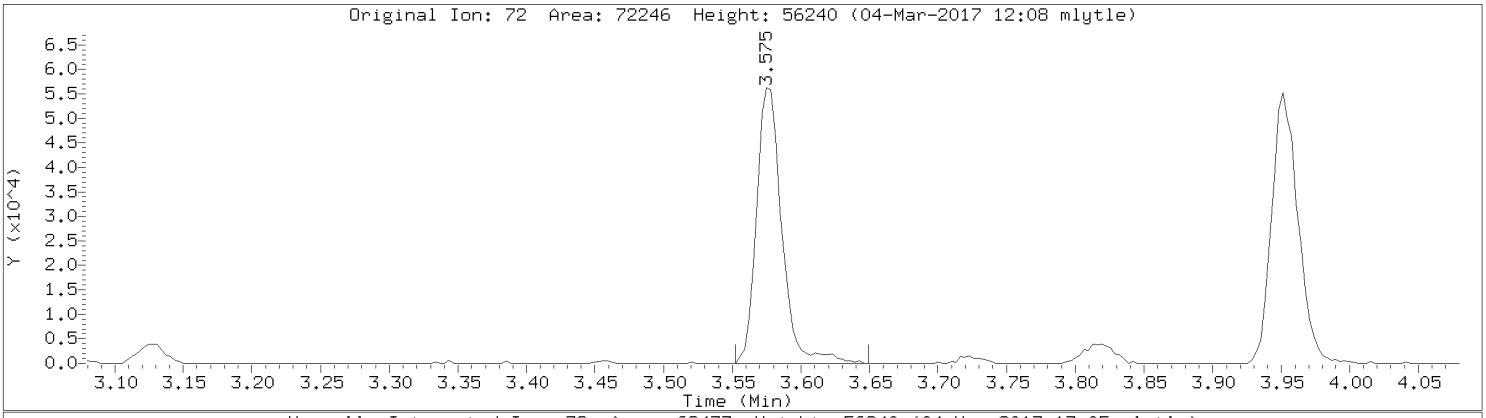


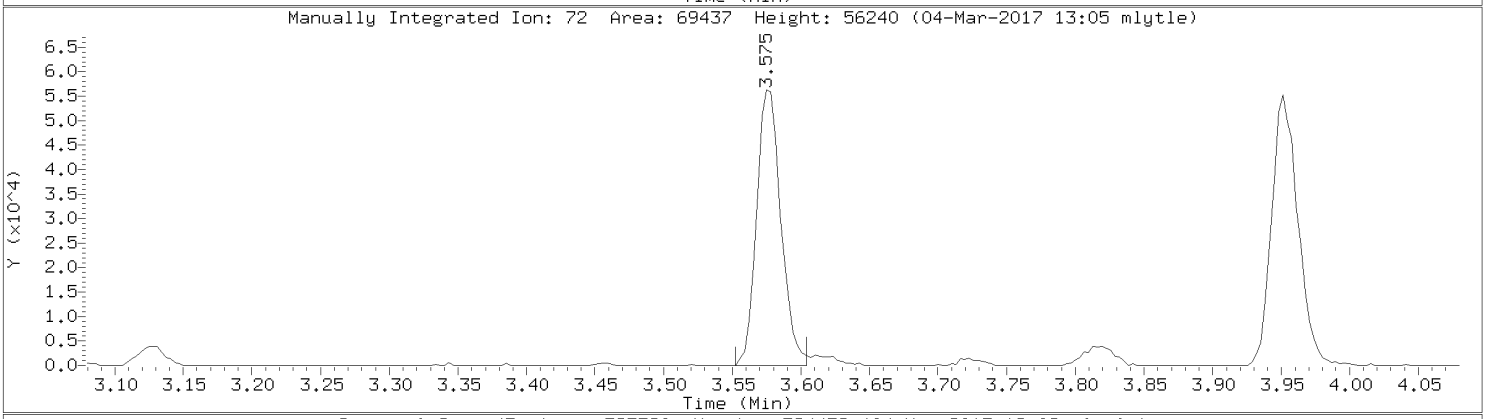


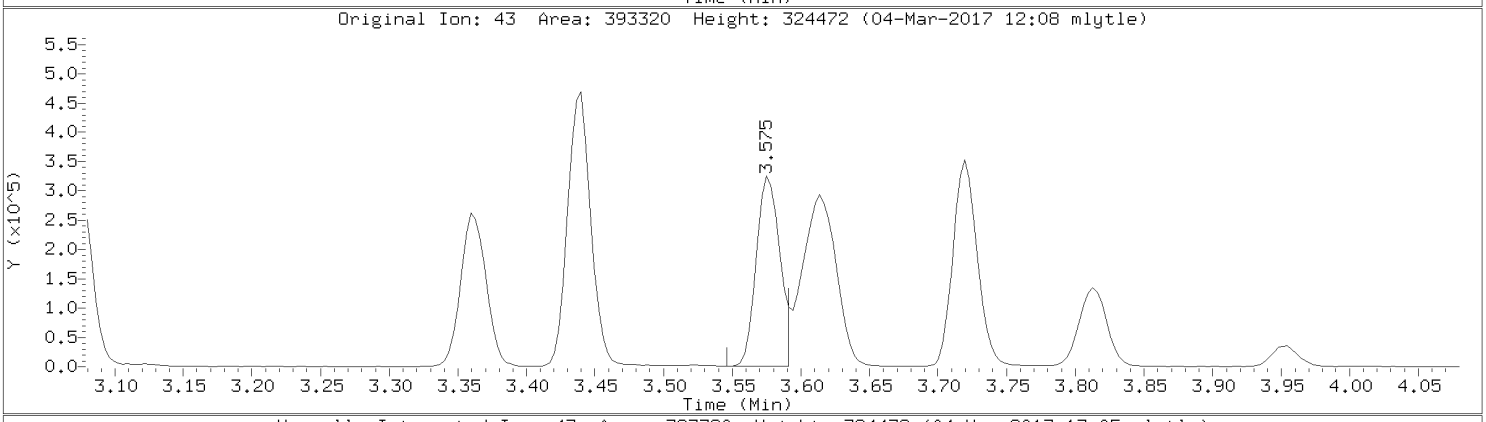


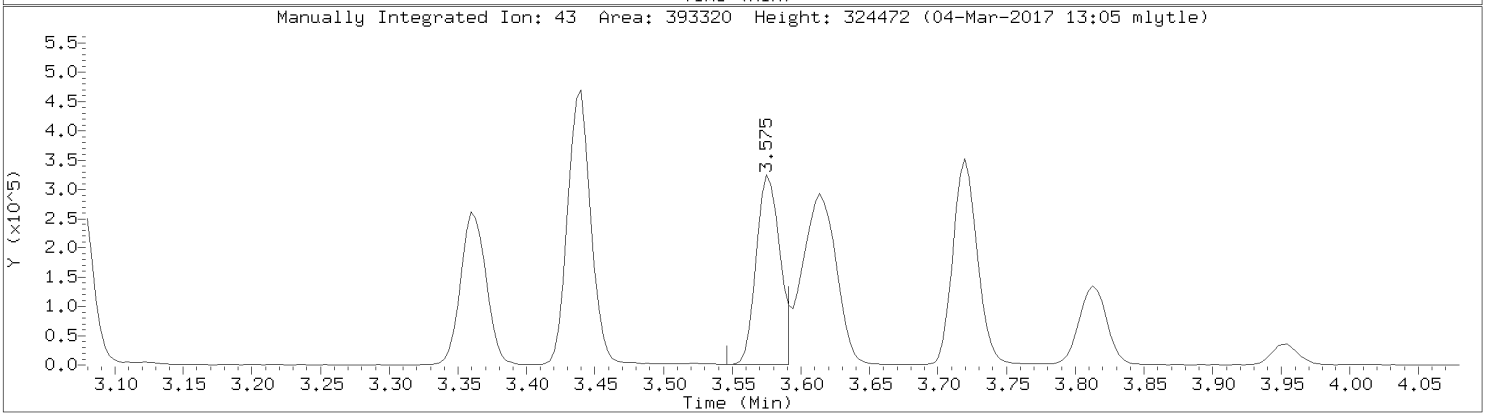
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



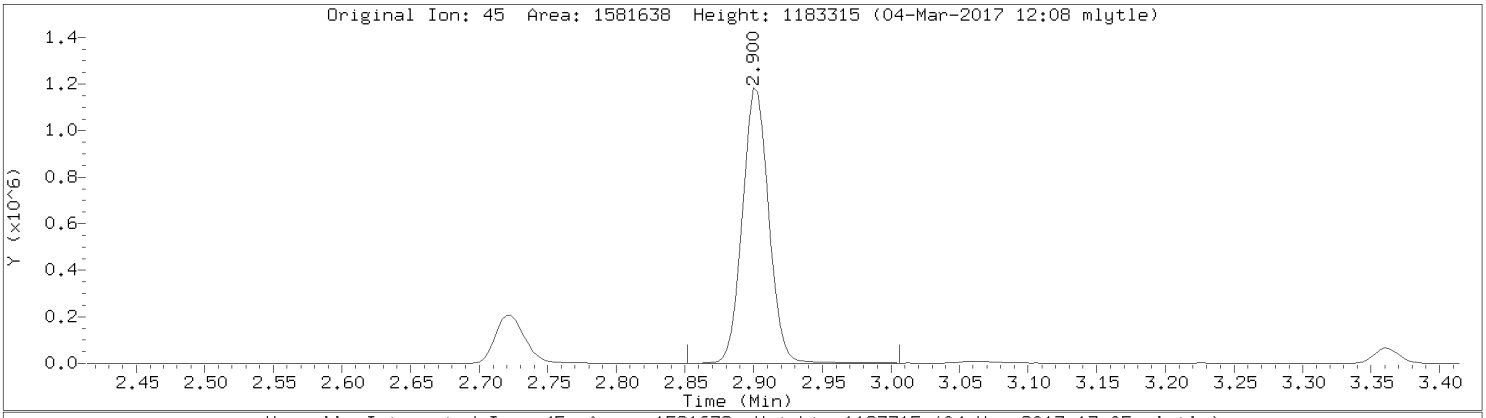


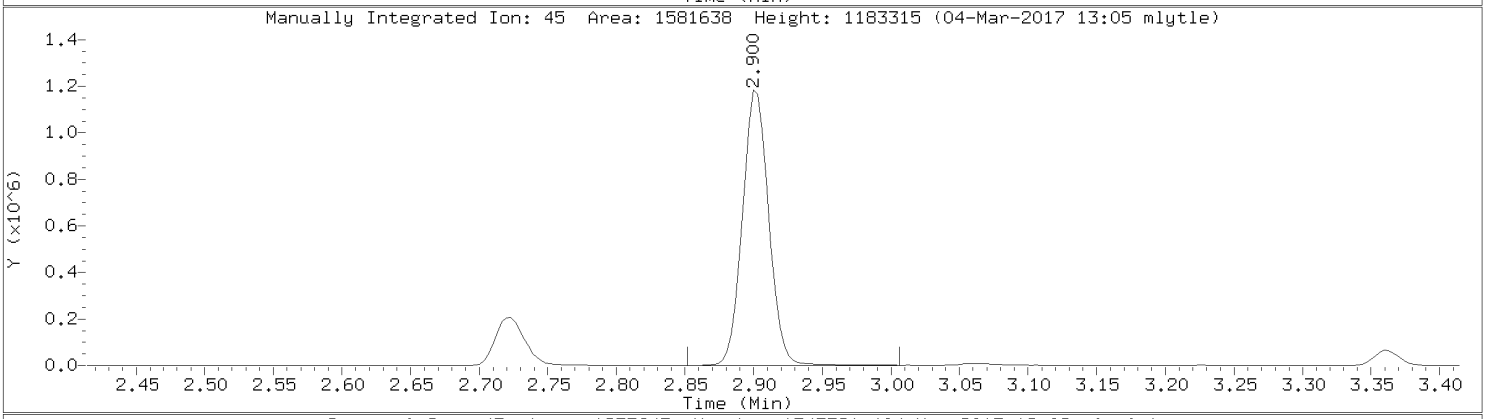


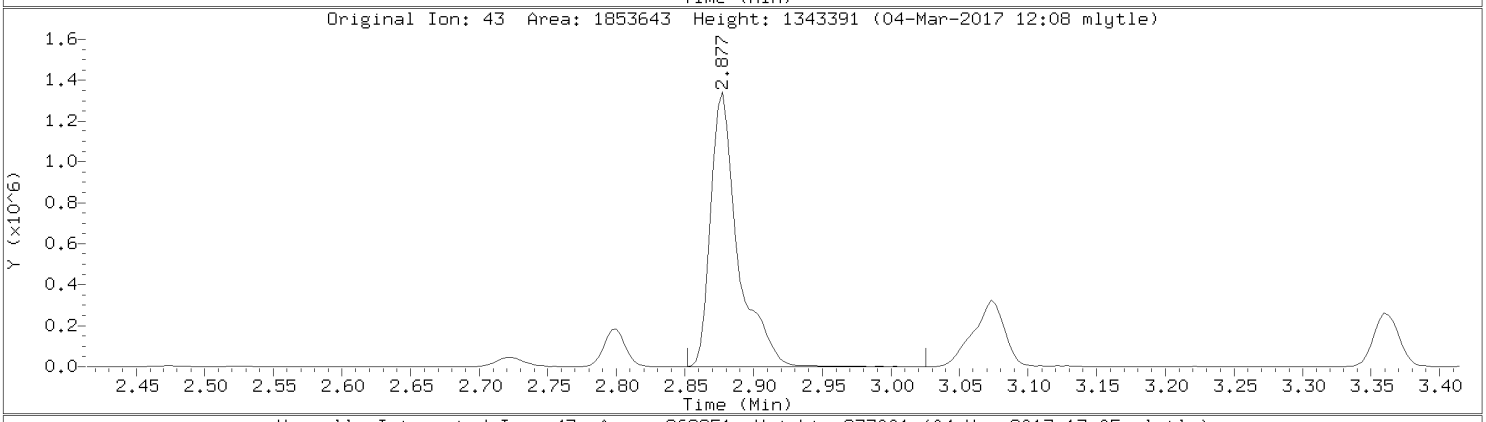


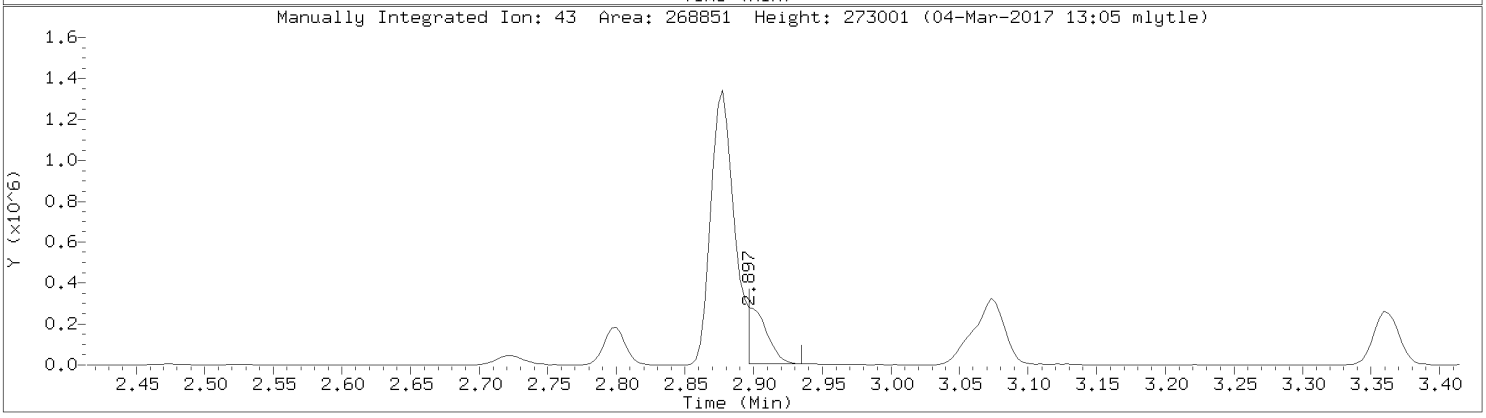
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



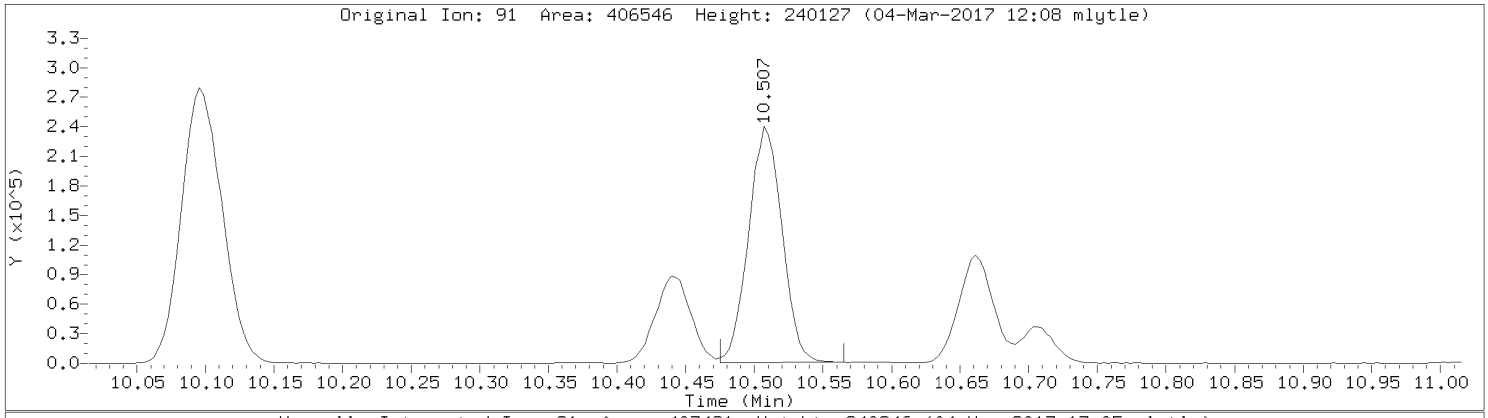


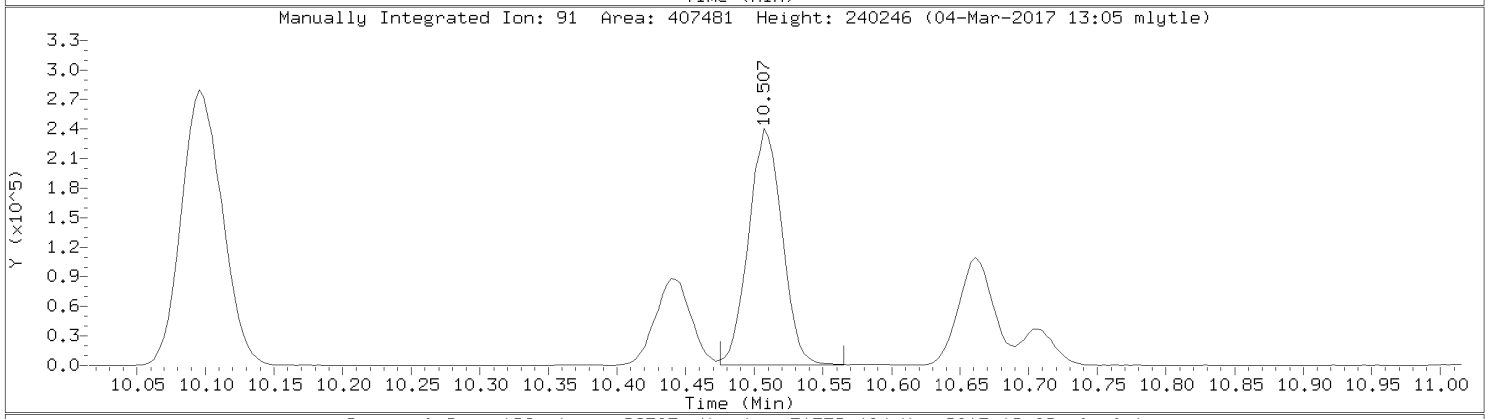


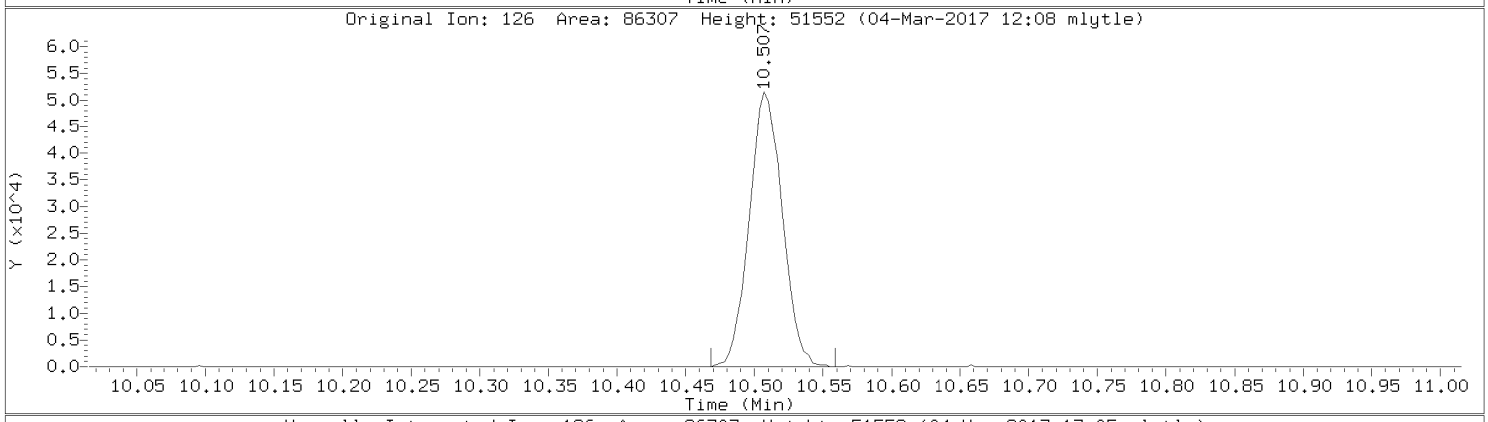


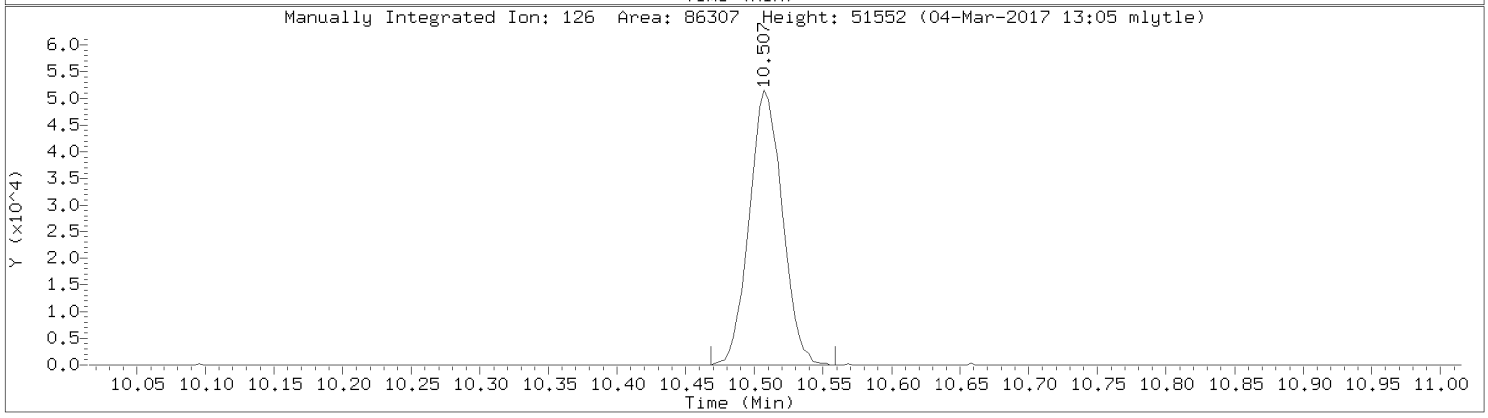
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5

Compound: Benzyl Chloride
CAS Number: 100-44-7



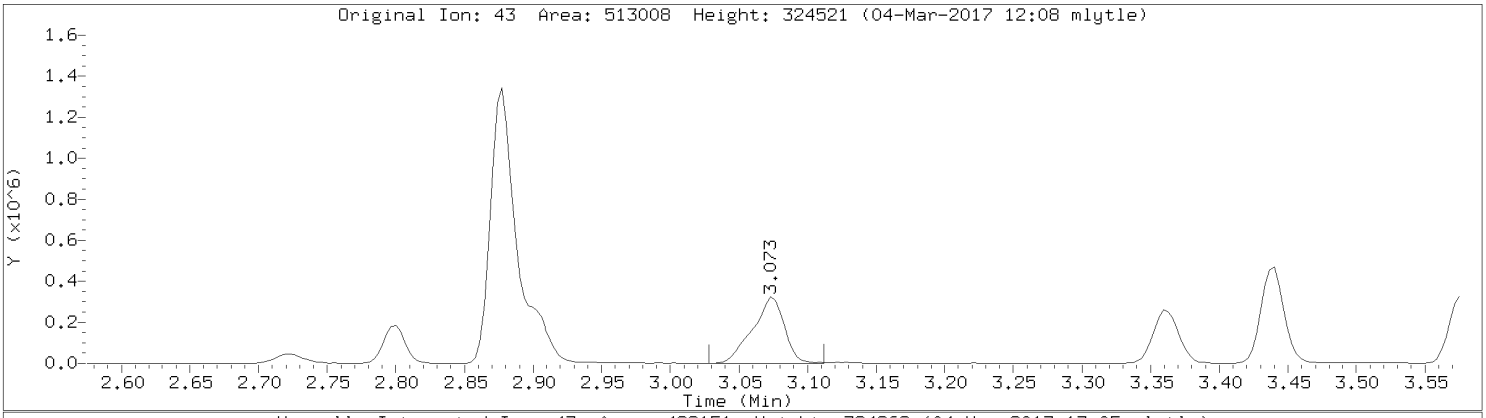


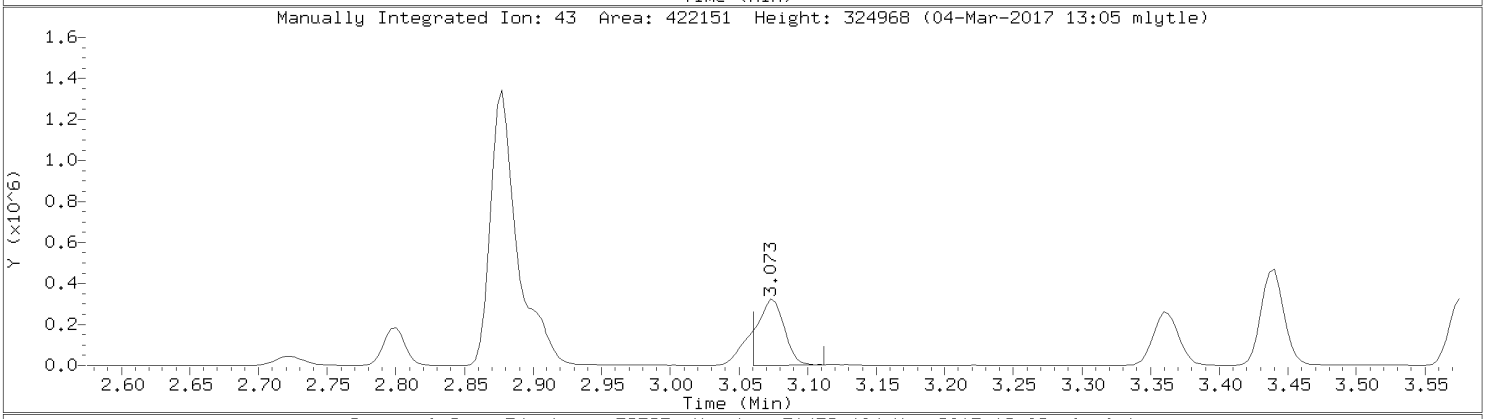


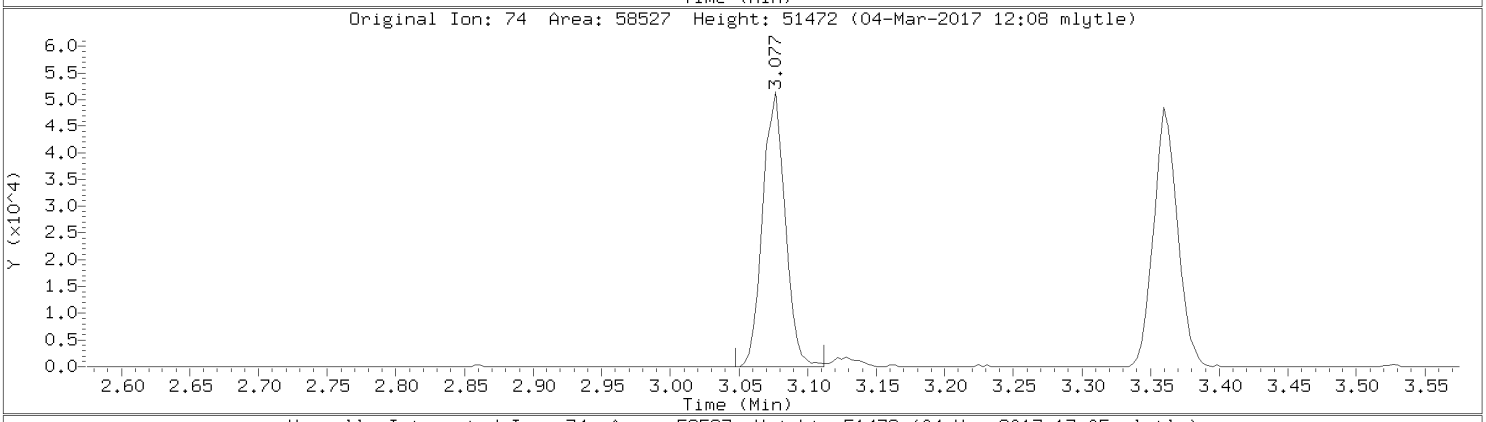


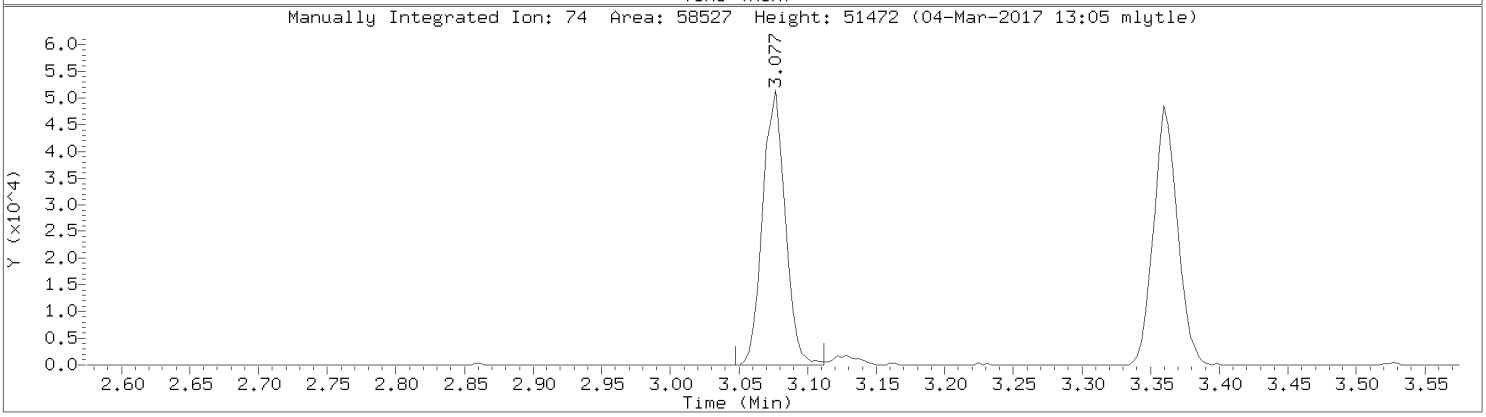
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5

Compound: Methyl Acetate
CAS Number: 79-20-9

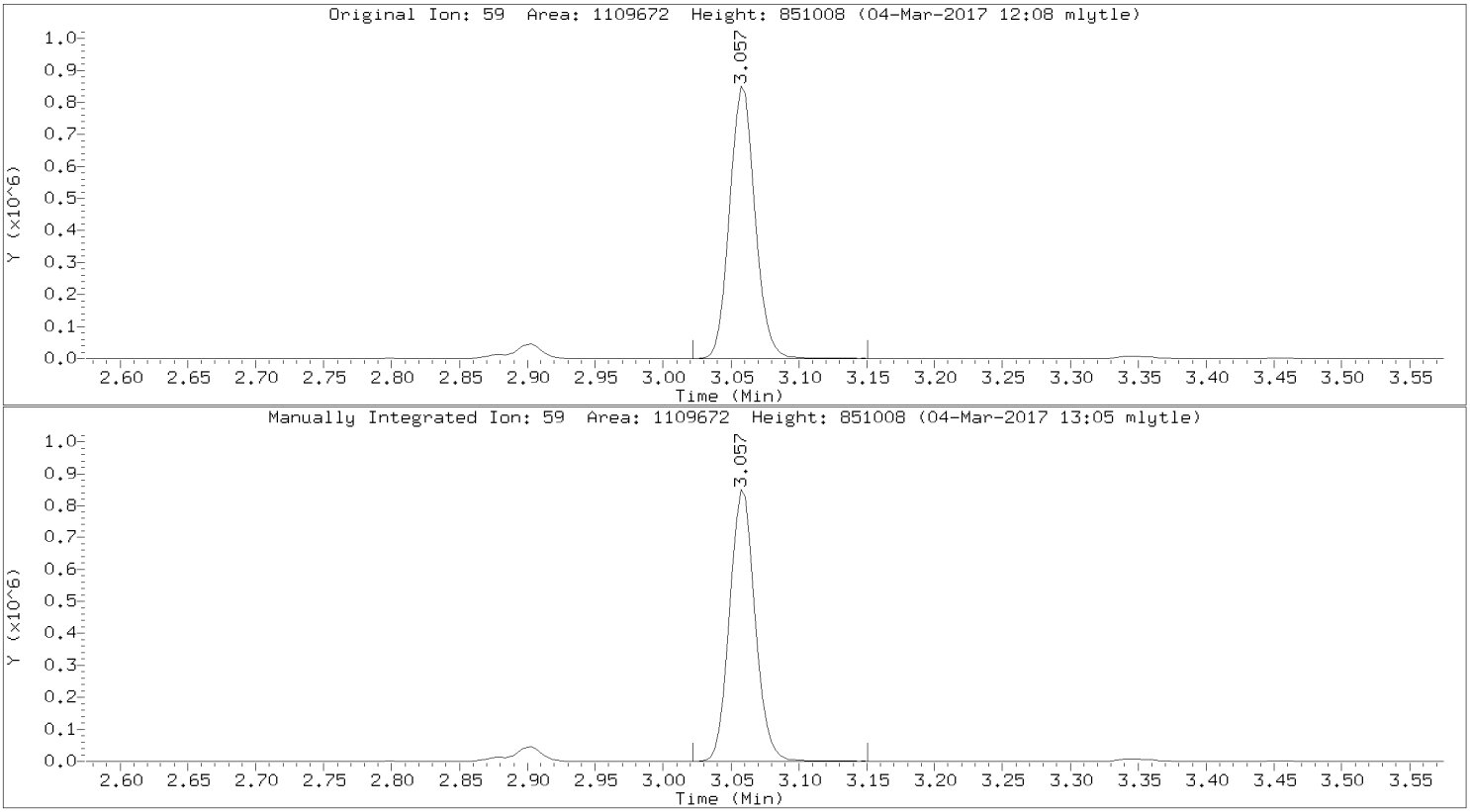








Data File: \\192.168.10.12\chem\10air7.i\030417.b/06308.D
Injection Date: 04-MAR-2017 09:46
Instrument: 10air7.i
Lab Sample ID: CAL5



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Lab Smp Id: CAL6
Inj Date : 04-MAR-2017 10:10
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:07 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 09:46 Cal File: 06308.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)	
1	Chloropentafluoroethane	85	2.317	2.317	(0.513)	69810	20.0000		(a)
2	1,1-Difluoroethane	65	2.365	2.365	(0.524)	225247	20.0000	18.2	
3	Chlorodifluoromethane	67	2.375	2.375	(0.526)	120663	20.0000	18.9	
4	Propylene	41	2.385	2.385	(0.528)	307959	20.0000	19.5	
5	Dichlorodifluoromethane	85	2.404	2.404	(0.533)	1184644	20.0000	18.1	
6	Chloromethane	50	2.471	2.471	(0.548)	478226	20.0000	17.8	
7	Dichlorotetrafluoroethane	85	2.468	2.468	(0.547)	1090035	20.0000	18.2	
8	Vinyl chloride	62	2.529	2.529	(0.560)	367624	20.0000	18.6	
9	1,3-Butadiene	54	2.558	2.558	(0.567)	273557	20.0000	18.9	
10	Bromomethane	94	2.664	2.664	(0.590)	380347	20.0000	17.7	
11	Chloroethane	64	2.700	2.700	(0.598)	134295	20.0000	17.4	
12	Ethanol	45	2.729	2.729	(0.605)	590384	100.000	104	
13	Vinyl Bromide	106	2.790	2.790	(0.618)	403248	20.0000	18.2	
14	Isopentane	43	2.803	2.803	(0.621)	357008	20.0000	16.6	
15	Freon 123	83	2.803	2.803	(0.621)	882064	20.0000	17.8	
16	Trichlorofluoromethane	101	2.864	2.864	(0.635)	1152452	20.0000	17.7	
17	Acrolein	56	2.854	2.854	(0.632)	307471	50.0000	57.3	
18	Acetone	43	2.880	2.880	(0.638)	2938980	100.000	77.6	
19	Isopropyl Alcohol	45	2.909	2.909	(0.645)	2851332	100.000	89.7	(M)
20	1,1-Dichloroethene	61	3.050	3.050	(0.676)	654258	20.0000	18.2	
21	Acrylonitrile	53	3.053	3.053	(0.677)	686921	50.0000	46.7	
22	Freon 113	101	3.082	3.082	(0.683)	856609	20.0000	17.6	
23	Tert Butyl Alcohol (TBA)	59	3.066	3.066	(0.679)	1985140	50.0000	46.7	

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.076	3.076	(0.682)	913264	20.0000	21.1(Q)
	25 Methylene chloride	49	3.124	3.124	(0.692)	2165090	100.000	81.9
	26 Allyl Chloride	76	3.134	3.134	(0.694)	343689	50.0000	55.1(Q)
	27 Carbon Disulfide	76	3.227	3.227	(0.715)	858025	20.0000	18.8
	28 trans-1,2-dichloroethene	96	3.349	3.349	(0.742)	357584	20.0000	18.5
	29 Methyl Tert Butyl Ether	73	3.365	3.365	(0.746)	2348627	50.0000	44.9
	30 Vinyl Acetate	43	3.442	3.442	(0.763)	1030844	20.0000	22.6
	31 1,1-Dichloroethane	63	3.459	3.459	(0.766)	686894	20.0000	18.1
$	32 Hexane-d14(S)	66	3.526	3.526	(0.781)	232992	10.0000	10.1
	33 Methyl Ethyl Ketone	72	3.581	3.581	(0.793)	134948	20.0000	18.9
	34 n-Hexane	57	3.610	3.610	(0.800)	508106	20.0000	18.0
	35 Di-isopropyl Ether	45	3.622	3.622	(0.803)	1253692	20.0000	17.8
	36 cis-1,2-Dichloroethene	96	3.729	3.729	(0.826)	400623	20.0000	19.2
	37 Ethyl Acetate	43	3.722	3.722	(0.825)	826617	20.0000	18.4
	38 Ethyl Tert-Butyl Ether	59	3.815	3.815	(0.845)	2936985	50.0000	44.7
	39 Chloroform	83	3.828	3.828	(0.848)	855716	20.0000	18.3
	40 Tetrahydrofuran	42	3.954	3.954	(0.876)	398205	20.0000	18.2
	41 1,1,1-Trichloroethane	97	4.166	4.166	(0.923)	1090276	20.0000	19.1
	42 1,2-Dichloroethane	62	4.176	4.176	(0.925)	725395	20.0000	18.9
	43 Benzene	78	4.375	4.375	(0.969)	1137799	20.0000	17.5
	44 Carbon tetrachloride	117	4.391	4.391	(0.973)	1249006	20.0000	20.0
	45 Cyclohexane	56	4.391	4.391	(0.973)	556579	20.0000	17.0
	46 Tert Amyl Methyl Ether	73	4.500	4.500	(0.997)	1150933	20.0000	20.3
*	47 1,4-Difluorobenzene	114	4.513	4.513	(1.000)	841266	10.0000	
	48 2,2,4-Trimethylpentane	57	4.645	4.645	(1.029)	4237692	50.0000	40.5
	49 Heptane	43	4.761	4.761	(1.055)	718163	20.0000	16.8
	50 1,2-Dichloropropane	63	4.825	4.825	(1.069)	443432	20.0000	17.7
	51 Trichloroethene	130	4.844	4.844	(1.073)	676467	20.0000	17.0
	52 Methyl methacrylate	69	4.909	4.909	(1.088)	355851	20.0000	18.3
	53 Bromodichloromethane	83	4.934	4.934	(1.093)	1034678	20.0000	18.9
	54 1,4-Dioxane	88	4.918	4.918	(1.090)	204827	20.0000	18.9
	55 Methylcyclohexane	98	5.240	5.240	(1.161)	252401	20.0000	17.9
	56 Methyl Isobutyl Ketone	43	5.349	5.349	(1.185)	2440923	50.0000	42.8
	57 cis-1,3-Dichloropropene	75	5.397	5.397	(1.196)	706823	20.0000	19.3
	58 trans-1,3-Dichloropropene	75	5.774	5.774	(1.279)	673726	20.0000	20.3
$	59 Toluene-d8 (S)	98	5.841	5.841	(1.294)	703888	10.0000	9.97
	60 Toluene	91	5.912	5.912	(1.310)	1359786	20.0000	17.1
	61 1,1,2-Trichloroethane	97	5.915	5.915	(1.311)	522323	20.0000	17.4
	62 Methyl Butyl Ketone	43	6.134	6.134	(0.838)	2224742	50.0000	41.8
	63 n-Octane	43	6.330	6.330	(0.865)	920083	20.0000	16.6
	64 Dibromochloromethane	129	6.404	6.404	(0.875)	1296505	20.0000	20.1
	65 1,2-Dibromoethane	107	6.619	6.619	(0.905)	925757	20.0000	18.3
	66 Tetrachloroethene	166	6.690	6.690	(0.914)	918701	20.0000	16.7
*	67 Chlorobenzene - d5	117	7.317	7.317	(1.000)	554872	10.0000	
	68 Chlorobenzene	112	7.359	7.359	(1.006)	1178302	20.0000	17.6
	69 Ethyl Benzene	91	7.600	7.600	(1.039)	1777343	20.0000	17.2
	70 m&p-Xylene	91	7.745	7.745	(1.058)	2708918	40.0000	33.3
	71 Bromoform	173	8.111	8.111	(1.109)	1227785	20.0000	23.5
	72 n-Nonane	43	8.137	8.137	(1.112)	894668	20.0000	18.0
	73 Styrene	104	8.153	8.153	(1.114)	986320	20.0000	18.6
	74 o-Xylene	91	8.217	8.217	(1.123)	1347047	20.0000	16.6
	75 1,1,2,2-Tetrachloroethane	83	8.471	8.471	(1.158)	853032	20.0000	17.4
	76 Isopropylbenzene	105	8.786	8.786	(1.201)	1934550	20.0000	17.3
	77 N-Propylbenzene	91	9.346	9.346	(1.277)	2035149	20.0000	17.9

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.516	9.516	(1.301)	1743520	20.0000	17.7
79	1,3,5-Trimethylbenzene	105	9.606	9.606	(1.313)	1473595	20.0000	17.5
80	n-Decane	57	10.005	10.005	(2.217)	754634	20.0000	20.2
81	Tert-Butyl Benzene	119	10.101	10.101	(1.381)	1547061	20.0000	17.2
82	1,2,4-Trimethylbenzene	105	10.117	10.117	(1.383)	1367519	20.0000	19.0
83	1,3-Dichlorobenzene	146	10.420	10.420	(1.424)	928484	20.0000	19.0
84	Sec- Butylbenzene	105	10.445	10.445	(1.428)	1926982	20.0000	17.7
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.494	10.494	(1.434)	265790	10.0000	11.7
86	Benzyl Chloride	91	10.513	10.513	(1.437)	869050	20.0000	23.6(M)
87	1,4-Dichlorobenzene	146	10.535	10.535	(1.440)	868328	20.0000	19.4
88	p-Isopropyltoluene	119	10.667	10.667	(1.458)	1640545	20.0000	18.3
89	1,2,3-Trimethylbenzene	105	10.709	10.709	(1.464)	1267907	20.0000	17.2
90	1,2-Dichlorobenzene	146	11.002	11.002	(1.504)	813285	20.0000	18.8
91	N-Butylbenzene	91	11.256	11.256	(1.538)	1135579	20.0000	18.9
92	1,2-Dibromo-3-Chloropropane	157	11.776	11.776	(1.609)	222408	20.0000	21.6
93	1,2,4-Trichlorobenzene	180	13.043	13.043	(1.783)	103855	20.0000	20.4
94	Naphthalene	128	13.162	13.162	(1.799)	193658	20.0000	21.2
95	Hexachlorobutadiene	225	13.426	13.426	(1.835)	187769	20.0000	19.4

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06309.D
Lab Smp Id: CAL6
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

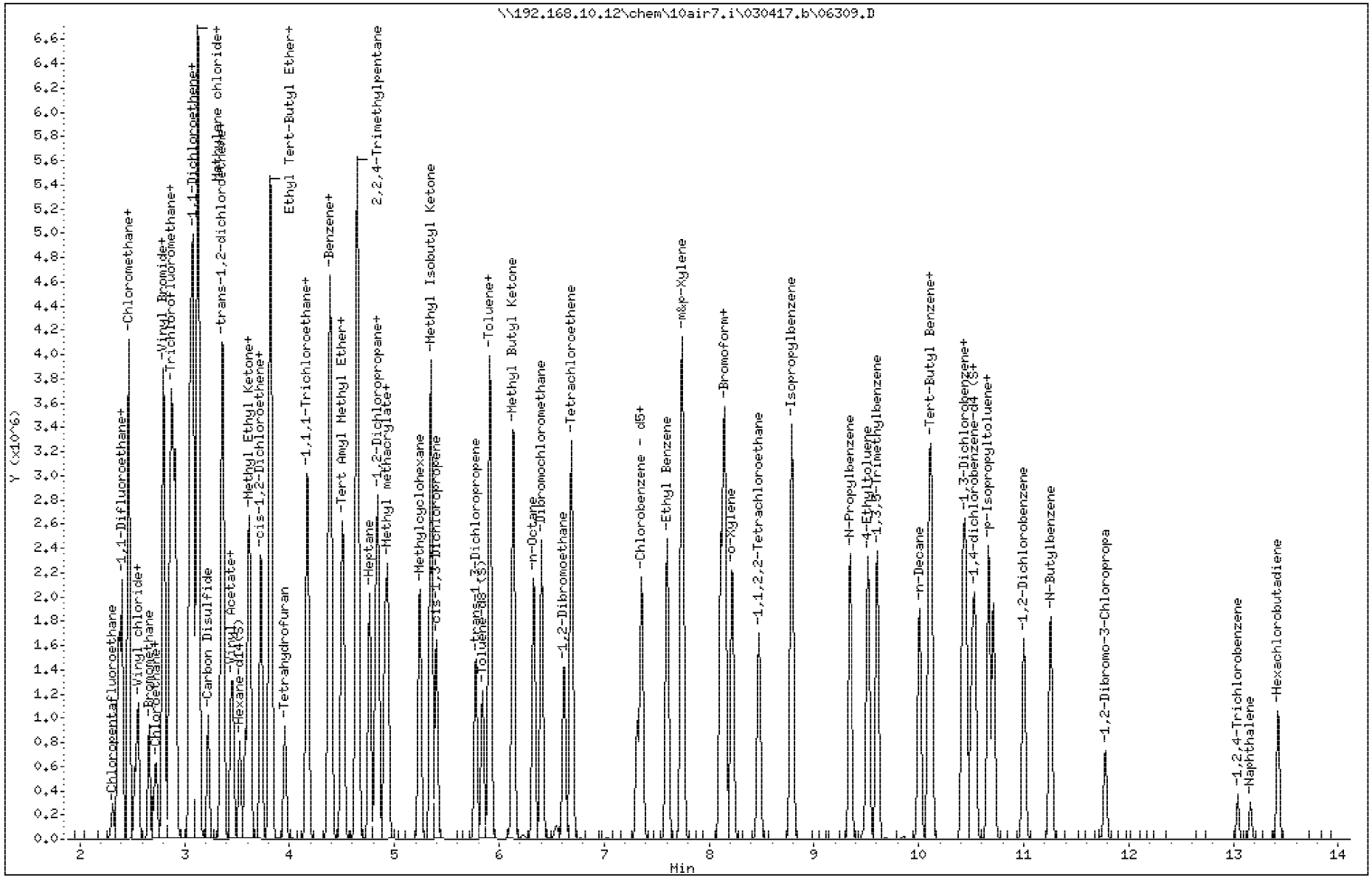
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	841266	0.63
67 Chlorobenzene - d	539522	323713	755331	554872	2.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.51	0.14
67 Chlorobenzene - d	7.31	6.98	7.64	7.32	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

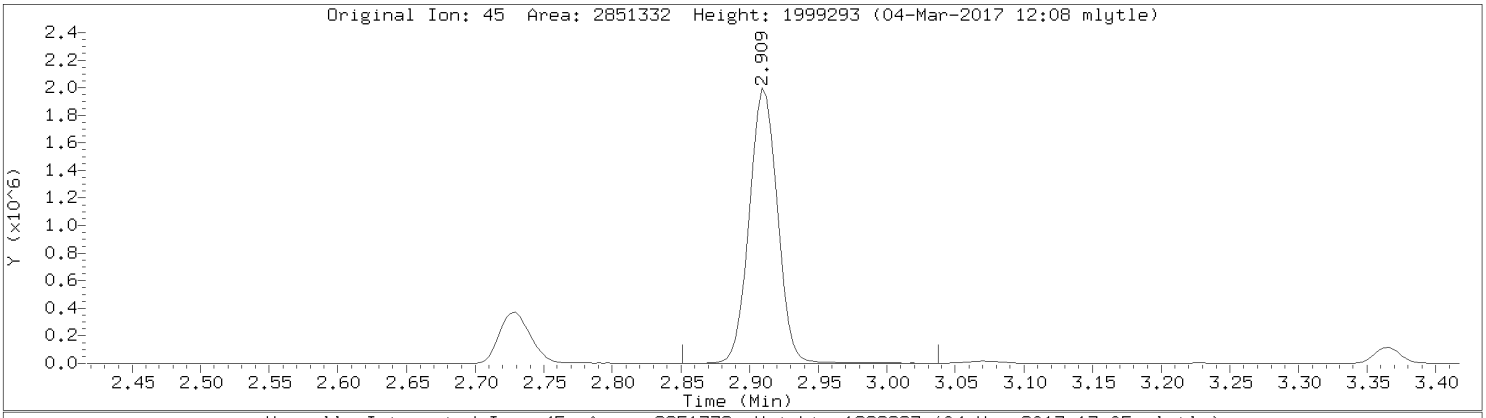
Data File: \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Date : 04-MAR-2017 10:10
Client ID:
Sample Info:

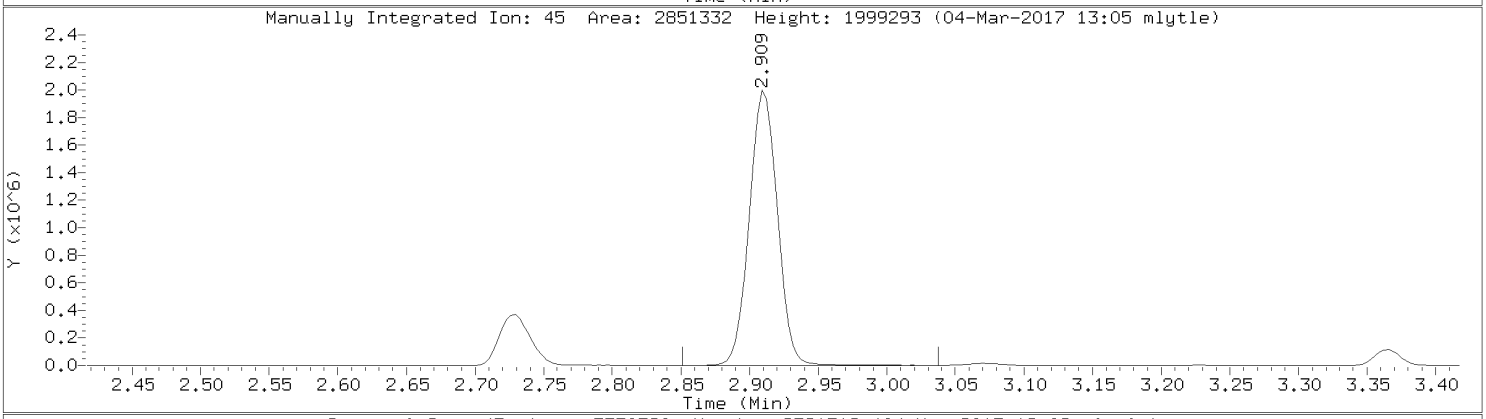
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

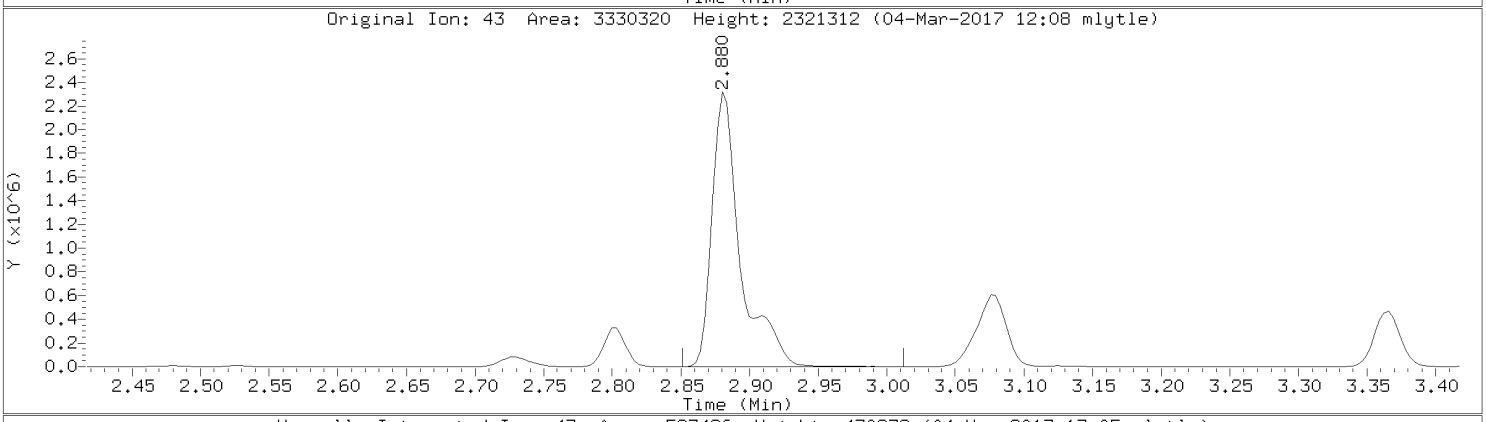


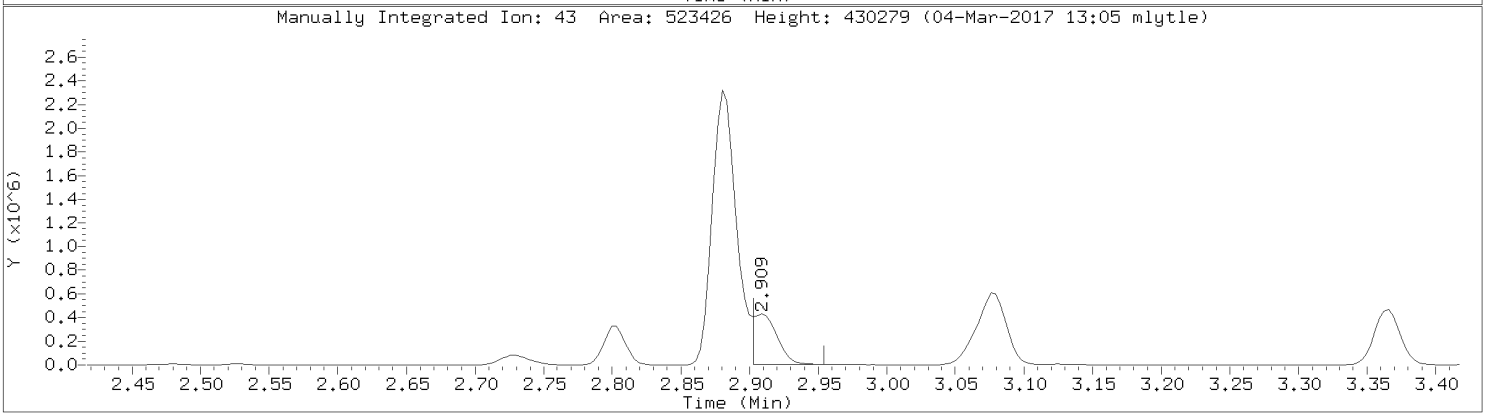
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06309.D
Injection Date: 04-MAR-2017 10:10
Instrument: 10air7.i
Lab Sample ID: CAL6

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



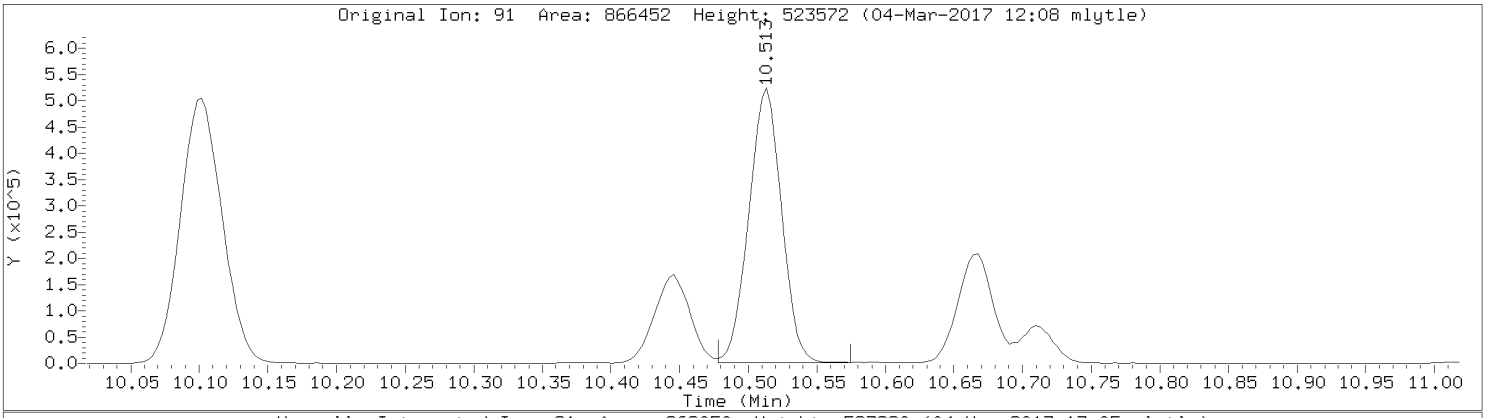


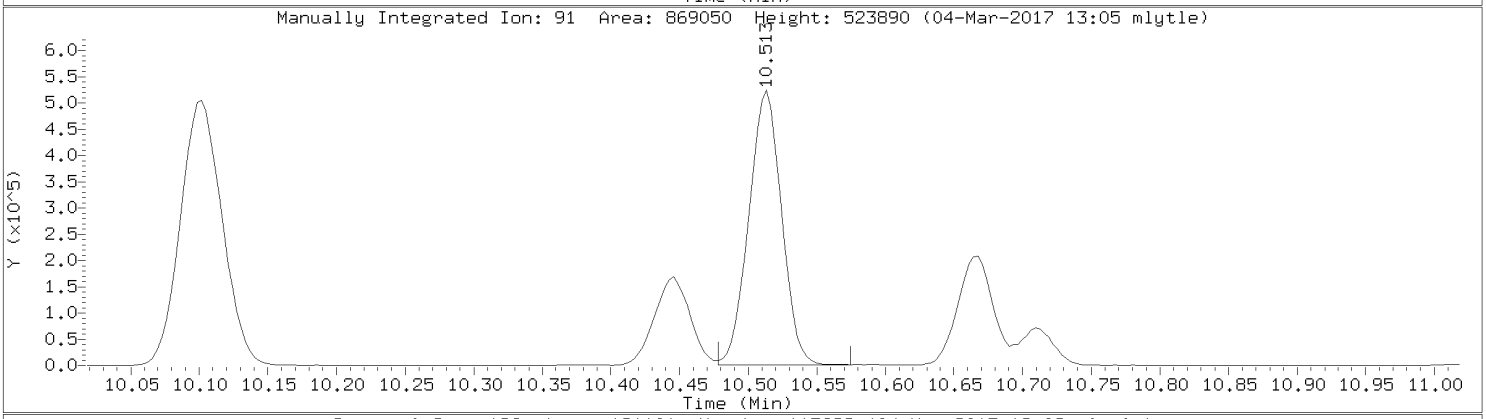


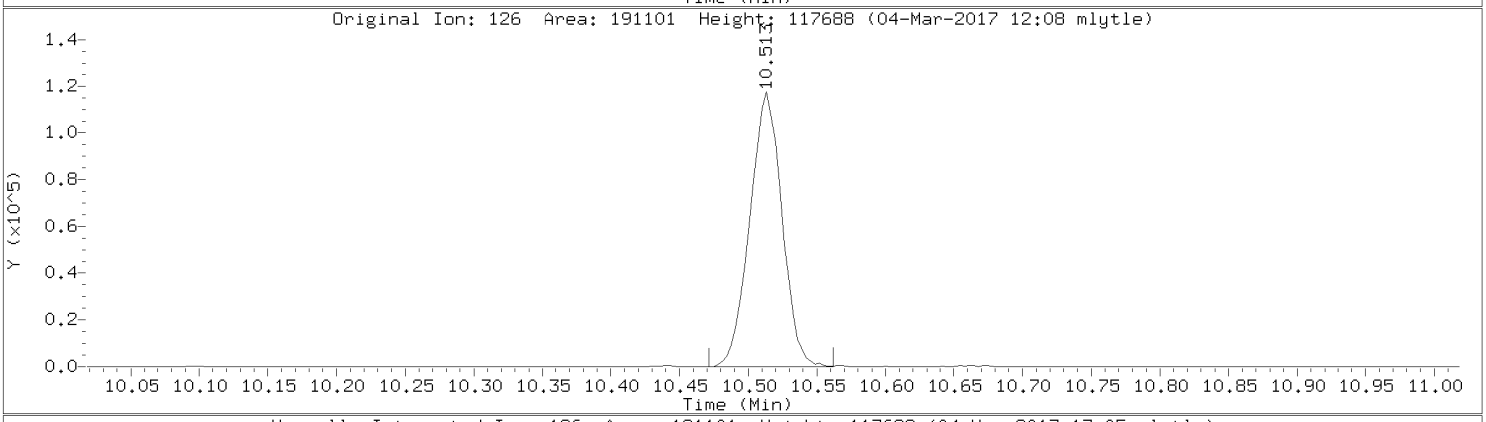


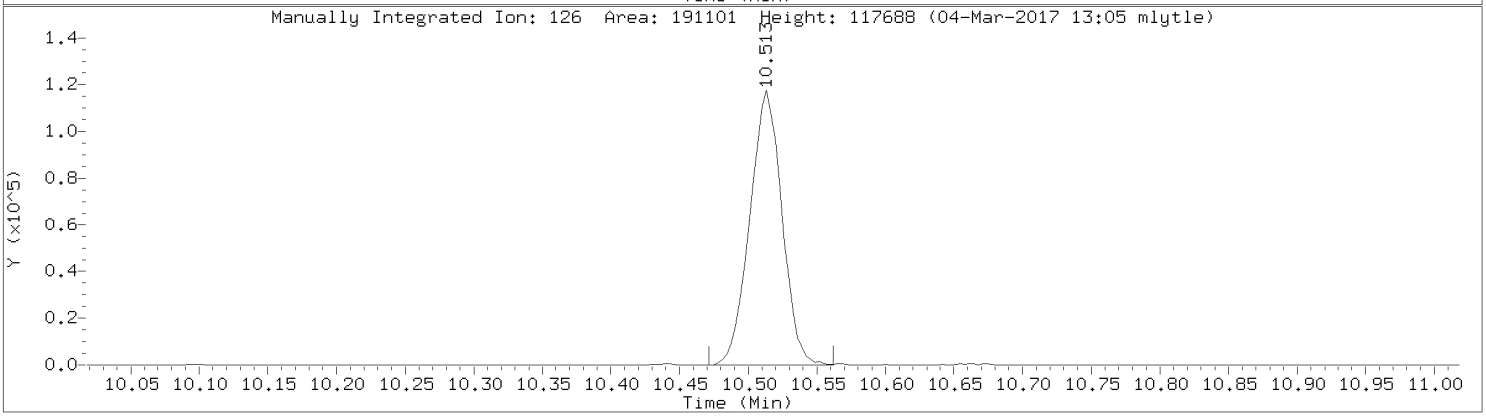
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06309.D
Injection Date: 04-MAR-2017 10:10
Instrument: 10air7.i
Lab Sample ID: CAL6

Compound: Benzyl Chloride
CAS Number: 100-44-7









Data File: \\192.168.10.12\chem\10air7.i\030417.b\06310.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06310.D
Lab Smp Id: CAL7
Inj Date : 04-MAR-2017 10:36
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:08 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 10:10 Cal File: 06309.D
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.314	2.314	(0.513)	49532	30.0000	(a)
2	1,1-Difluoroethane	65	2.362	2.362	(0.523)	321849	30.0000	26.2
3	Chlorodifluoromethane	67	2.372	2.372	(0.526)	174979	30.0000	27.7(Q)
4	Propylene	41	2.378	2.378	(0.527)	423114	30.0000	30.2(A)
5	Dichlorodifluoromethane	85	2.401	2.401	(0.532)	1624450	30.0000	25.0
6	Chloromethane	50	2.468	2.468	(0.547)	658620	30.0000	24.8
7	Dichlorotetrafluoroethane	85	2.465	2.465	(0.546)	1524056	30.0000	25.7
8	Vinyl chloride	62	2.526	2.526	(0.560)	534678	30.0000	27.4
9	1,3-Butadiene	54	2.555	2.555	(0.566)	390079	30.0000	27.3
10	Bromomethane	94	2.661	2.661	(0.590)	588309	30.0000	27.7
11	Chloroethane	64	2.697	2.697	(0.598)	212358	30.0000	27.8
12	Ethanol	45	2.729	2.729	(0.605)	839098	150.000	149
13	Vinyl Bromide	106	2.790	2.790	(0.618)	616355	30.0000	28.0
14	Isopentane	43	2.799	2.799	(0.620)	541830	30.0000	25.4
15	Freon 123	83	2.799	2.799	(0.620)	1348407	30.0000	27.5
16	Trichlorofluoromethane	101	2.861	2.861	(0.634)	1685764	30.0000	26.2
17	Acrolein	56	2.854	2.854	(0.632)	461413	75.0000	86.9(A)
18	Acetone	43	2.880	2.880	(0.638)	4119578	150.000	110
19	Isopropyl Alcohol	45	2.915	2.915	(0.646)	4128831	150.000	131
20	1,1-Dichloroethene	61	3.050	3.050	(0.676)	968720	30.0000	27.2
21	Acrylonitrile	53	3.053	3.053	(0.677)	1008717	75.0000	69.3
22	Freon 113	101	3.079	3.079	(0.682)	1261829	30.0000	26.2
23	Tert Butyl Alcohol (TBA)	59	3.073	3.073	(0.681)	2832160	75.0000	67.2

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06310.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Methyl Acetate	43	3.076	3.076	(0.682)	1325107	30.0000	31.0(A)
	25 Methylene chloride	49	3.124	3.124	(0.692)	3064736	150.000	117
	26 Allyl Chloride	76	3.134	3.134	(0.694)	509174	75.0000	82.4(A)
	27 Carbon Disulfide	76	3.224	3.224	(0.714)	1249299	30.0000	27.6
	28 trans-1,2-dichloroethene	96	3.349	3.349	(0.742)	525105	30.0000	27.4
	29 Methyl Tert Butyl Ether	73	3.365	3.365	(0.746)	3353779	75.0000	64.8
	30 Vinyl Acetate	43	3.442	3.442	(0.763)	1506638	30.0000	33.4(A)
	31 1,1-Dichloroethane	63	3.459	3.459	(0.766)	1006775	30.0000	26.8
$	32 Hexane-d14(S)	66	3.526	3.526	(0.781)	237022	10.0000	10.4
	33 Methyl Ethyl Ketone	72	3.581	3.581	(0.793)	211064	30.0000	29.8
	34 n-Hexane	57	3.606	3.606	(0.799)	733455	30.0000	26.2(M)
	35 Di-isopropyl Ether	45	3.623	3.623	(0.803)	1809200	30.0000	25.9
	36 cis-1,2-Dichloroethene	96	3.729	3.729	(0.826)	583713	30.0000	28.2
	37 Ethyl Acetate	43	3.725	3.725	(0.825)	1200080	30.0000	27.0
	38 Ethyl Tert-Butyl Ether	59	3.819	3.819	(0.846)	4084111	75.0000	62.7
	39 Chloroform	83	3.828	3.828	(0.848)	1207790	30.0000	26.1
	40 Tetrahydrofuran	42	3.957	3.957	(0.877)	586682	30.0000	27.1
	41 1,1,1-Trichloroethane	97	4.166	4.166	(0.923)	1411398	30.0000	25.0
	42 1,2-Dichloroethane	62	4.179	4.179	(0.926)	944843	30.0000	24.9
	43 Benzene	78	4.375	4.375	(0.969)	1596105	30.0000	24.7
	44 Carbon tetrachloride	117	4.391	4.391	(0.973)	1729417	30.0000	27.9
	45 Cyclohexane	56	4.391	4.391	(0.973)	783920	30.0000	24.2
	46 Tert Amyl Methyl Ether	73	4.500	4.500	(0.997)	1645384	30.0000	29.5
*	47 1,4-Difluorobenzene	114	4.513	4.513	(1.000)	833163	10.0000	
	48 2,2,4-Trimethylpentane	57	4.648	4.648	(1.030)	5833145	75.0000	56.3
	49 Heptane	43	4.761	4.761	(1.055)	1027185	30.0000	24.3
	50 1,2-Dichloropropane	63	4.828	4.828	(1.070)	637237	30.0000	25.6
	51 Trichloroethene	130	4.848	4.848	(1.074)	974659	30.0000	24.8
	52 Methyl methacrylate	69	4.912	4.912	(1.088)	518234	30.0000	26.9
	53 Bromodichloromethane	83	4.934	4.934	(1.093)	1487588	30.0000	27.5
	54 1,4-Dioxane	88	4.922	4.922	(1.090)	264722	30.0000	24.7
	55 Methylcyclohexane	98	5.240	5.240	(1.161)	365277	30.0000	26.1
	56 Methyl Isobutyl Ketone	43	5.352	5.352	(1.186)	3393151	75.0000	60.1
	57 cis-1,3-Dichloropropene	75	5.401	5.401	(1.197)	1027175	30.0000	28.3
	58 trans-1,3-Dichloropropene	75	5.777	5.777	(1.280)	991703	30.0000	30.2(A)
$	59 Toluene-d8 (S)	98	5.844	5.844	(1.295)	706820	10.0000	10.1
	60 Toluene	91	5.915	5.915	(1.311)	1991675	30.0000	25.3
	61 1,1,2-Trichloroethane	97	5.918	5.918	(1.311)	761072	30.0000	25.7
	62 Methyl Butyl Ketone	43	6.140	6.140	(0.839)	3153323	75.0000	58.7
	63 n-Octane	43	6.330	6.330	(0.865)	1326672	30.0000	23.8
	64 Dibromochloromethane	129	6.407	6.407	(0.875)	1874610	30.0000	28.8
	65 1,2-Dibromoethane	107	6.619	6.619	(0.904)	1344400	30.0000	26.4
	66 Tetrachloroethene	166	6.693	6.693	(0.914)	1310952	30.0000	23.6
*	67 Chlorobenzene - d5	117	7.320	7.320	(1.000)	559928	10.0000	
	68 Chlorobenzene	112	7.359	7.359	(1.005)	1715280	30.0000	25.4
	69 Ethyl Benzene	91	7.603	7.603	(1.039)	2550860	30.0000	24.4
	70 m&p-Xylene	91	7.748	7.748	(1.058)	3895287	60.0000	47.5
	71 Bromoform	173	8.118	8.118	(1.109)	1763688	30.0000	33.4(A)
	72 n-Nonane	43	8.140	8.140	(1.112)	1260357	30.0000	25.1
	73 Styrene	104	8.156	8.156	(1.114)	1440917	30.0000	27.0
	74 o-Xylene	91	8.220	8.220	(1.123)	1982246	30.0000	24.2
	75 1,1,2,2-Tetrachloroethane	83	8.478	8.478	(1.158)	1263624	30.0000	25.5
	76 Isopropylbenzene	105	8.786	8.786	(1.200)	2779625	30.0000	24.7
	77 N-Propylbenzene	91	9.349	9.349	(1.277)	2975782	30.0000	25.9

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06310.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	9.519	9.519	(1.300)	2565032	30.0000	25.7
79	1,3,5-Trimethylbenzene	105	9.609	9.609	(1.313)	2128403	30.0000	25.0
80	n-Decane	57	10.011	10.011	(2.218)	1118725	30.0000	30.2(A)
81	Tert-Butyl Benzene	119	10.105	10.105	(1.380)	2227903	30.0000	24.5
82	1,2,4-Trimethylbenzene	105	10.124	10.124	(1.383)	1982199	30.0000	27.2
83	1,3-Dichlorobenzene	146	10.423	10.423	(1.424)	1363874	30.0000	27.6
84	Sec- Butylbenzene	105	10.449	10.449	(1.427)	2828381	30.0000	25.7
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.497	10.497	(1.434)	272169	10.0000	11.9
86	Benzyl Chloride	91	10.516	10.516	(1.437)	1331897	30.0000	35.9(A)
87	1,4-Dichlorobenzene	146	10.539	10.539	(1.440)	1278563	30.0000	28.3
88	p-Isopropyltoluene	119	10.671	10.671	(1.458)	2427583	30.0000	26.9
89	1,2,3-Trimethylbenzene	105	10.716	10.716	(1.464)	1861705	30.0000	25.0(M)
90	1,2-Dichlorobenzene	146	11.002	11.002	(1.503)	1193065	30.0000	27.4
91	N-Butylbenzene	91	11.259	11.259	(1.538)	1717343	30.0000	28.3
92	1,2-Dibromo-3-Chloropropane	157	11.780	11.780	(1.609)	332896	30.0000	32.1(A)
93	1,2,4-Trichlorobenzene	180	13.040	13.040	(1.781)	154120	30.0000	30.0
94	Naphthalene	128	13.162	13.162	(1.798)	268656	30.0000	29.2
95	Hexachlorobutadiene	225	13.426	13.426	(1.834)	271135	30.0000	30.2(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06310.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06310.D
Lab Smp Id: CAL7
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	833163	-0.34
67 Chlorobenzene - d	539522	323713	755331	559928	3.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.51	0.14
67 Chlorobenzene - d	7.31	6.98	7.64	7.32	0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06310.D

Date : 04-MAR-2017 10:36

Client ID:

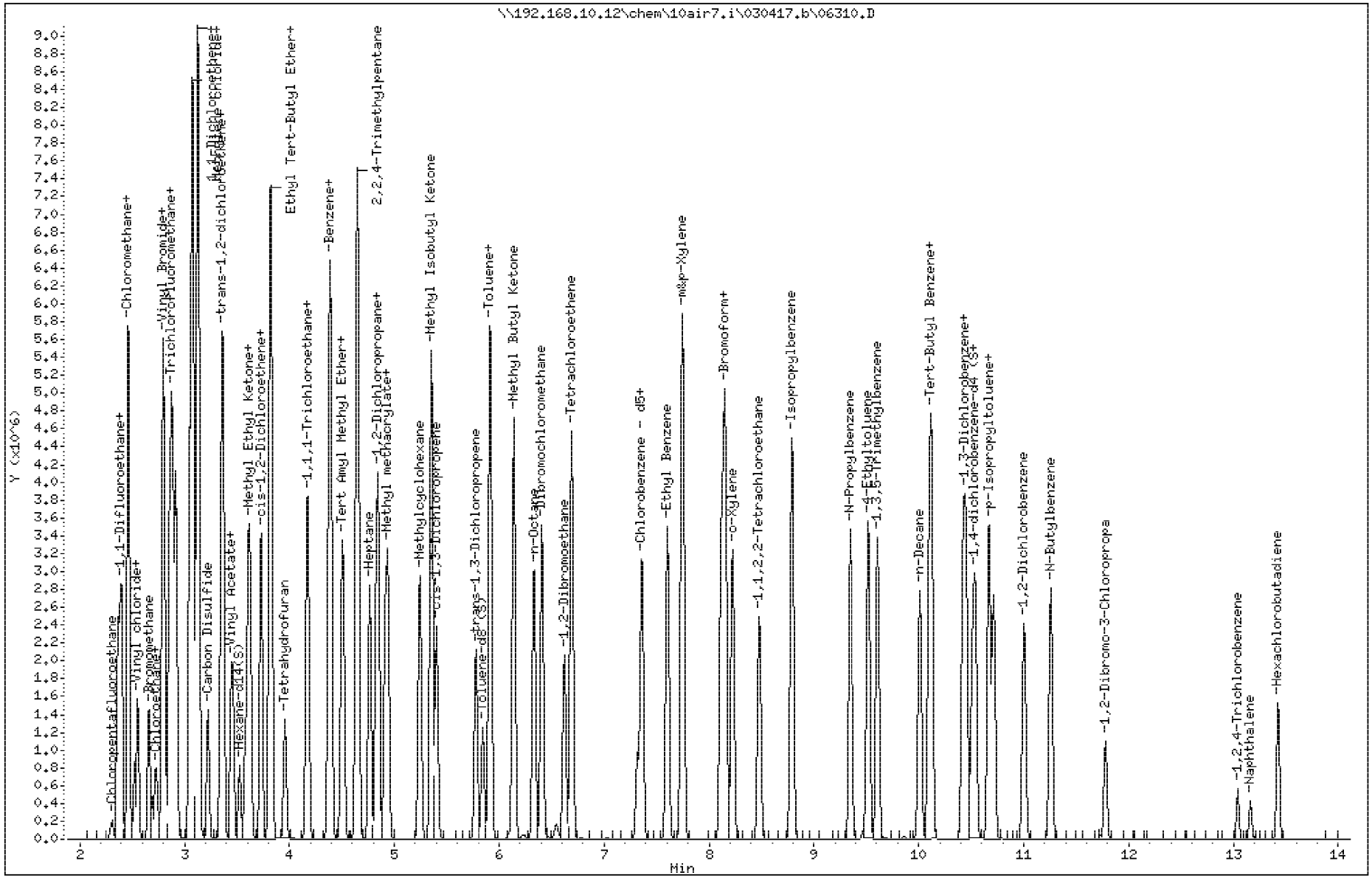
Instrument: 10air7.i

Sample Info:

Operator: MJL

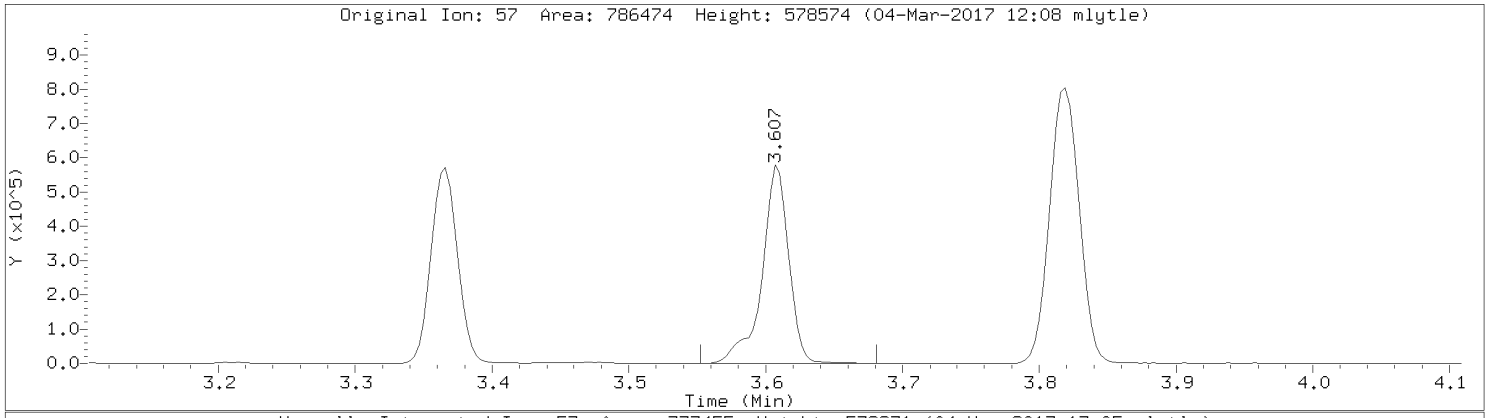
Column phase: J&W DB-5

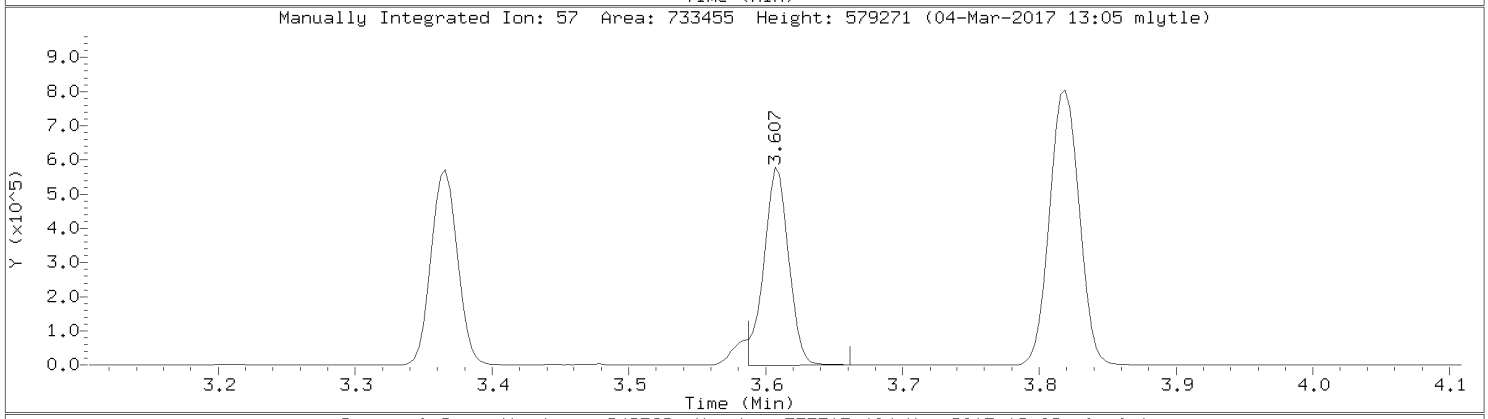
Column diameter: 0.32

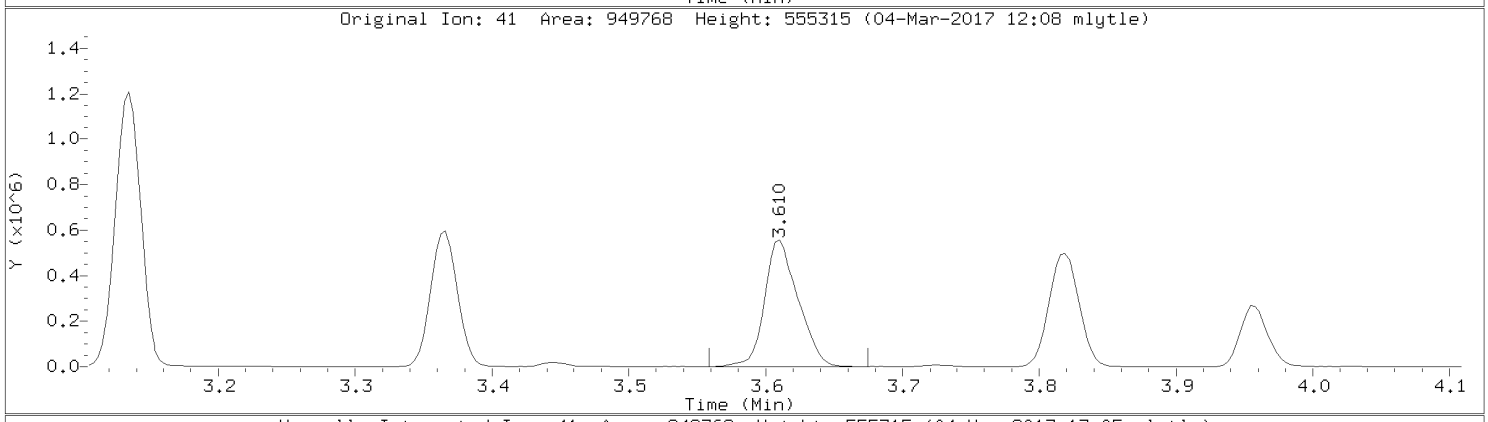


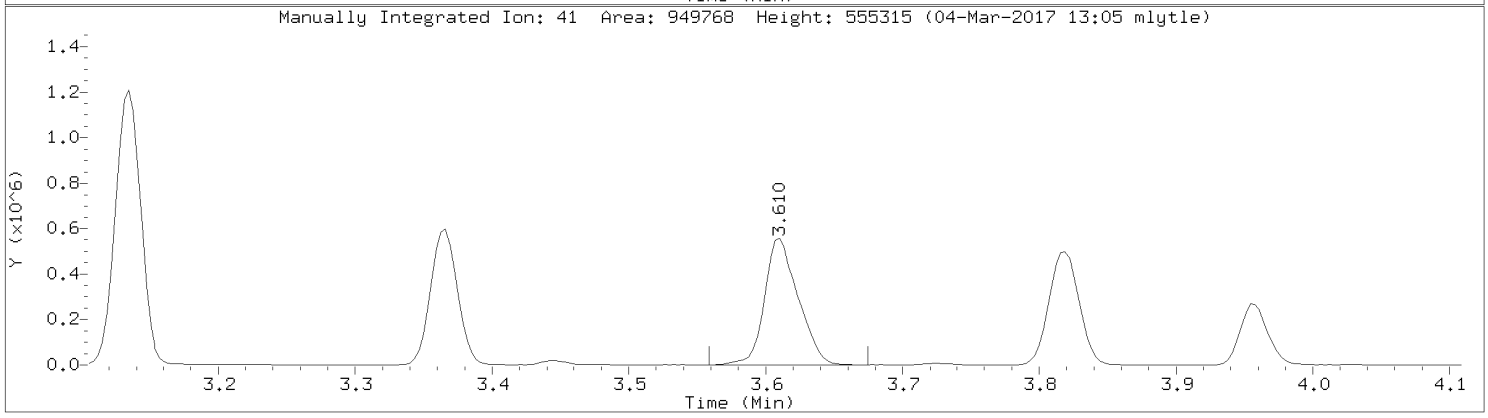
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06310.D
Injection Date: 04-MAR-2017 10:36
Instrument: 10air7.i
Lab Sample ID: CAL7

Compound: n-Hexane
CAS Number: 110-54-3

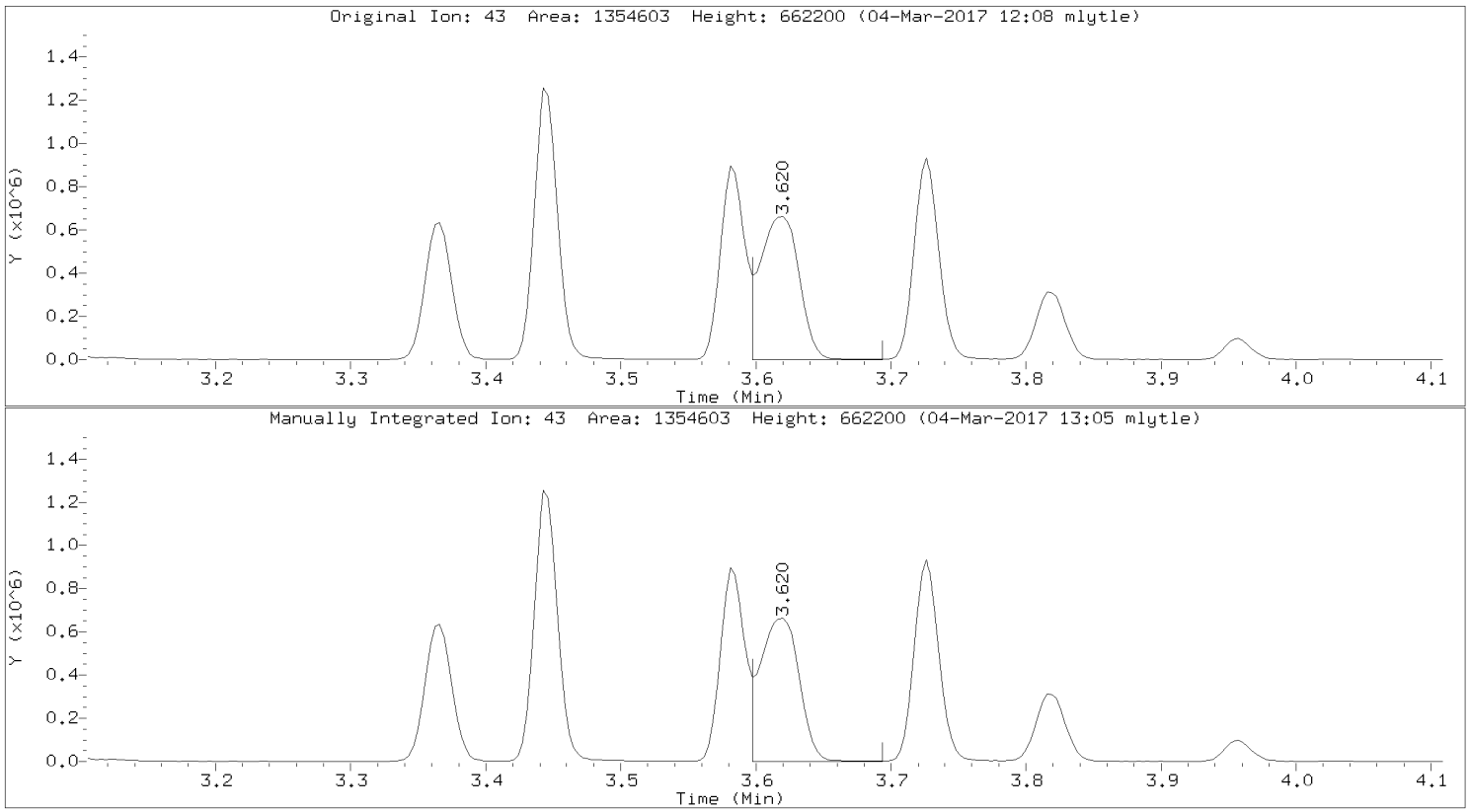






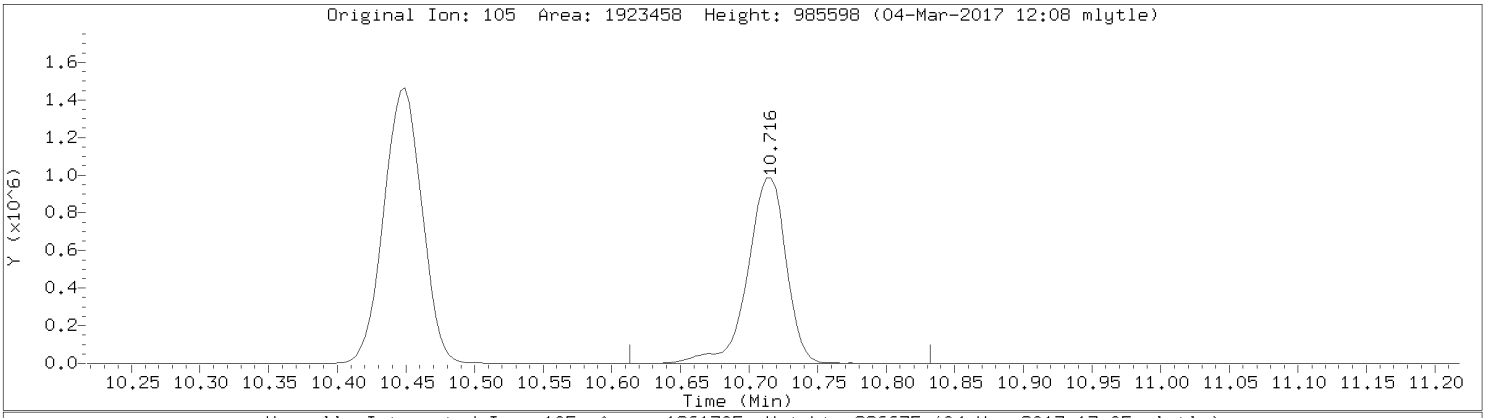


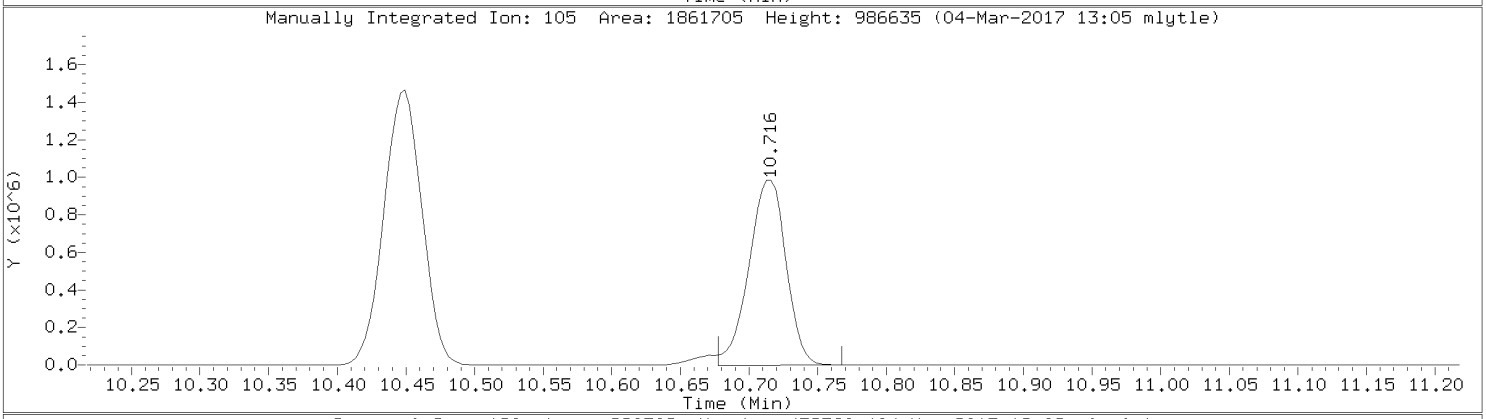
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06310.D
Injection Date: 04-MAR-2017 10:36
Instrument: 10air7.i
Lab Sample ID: CAL7

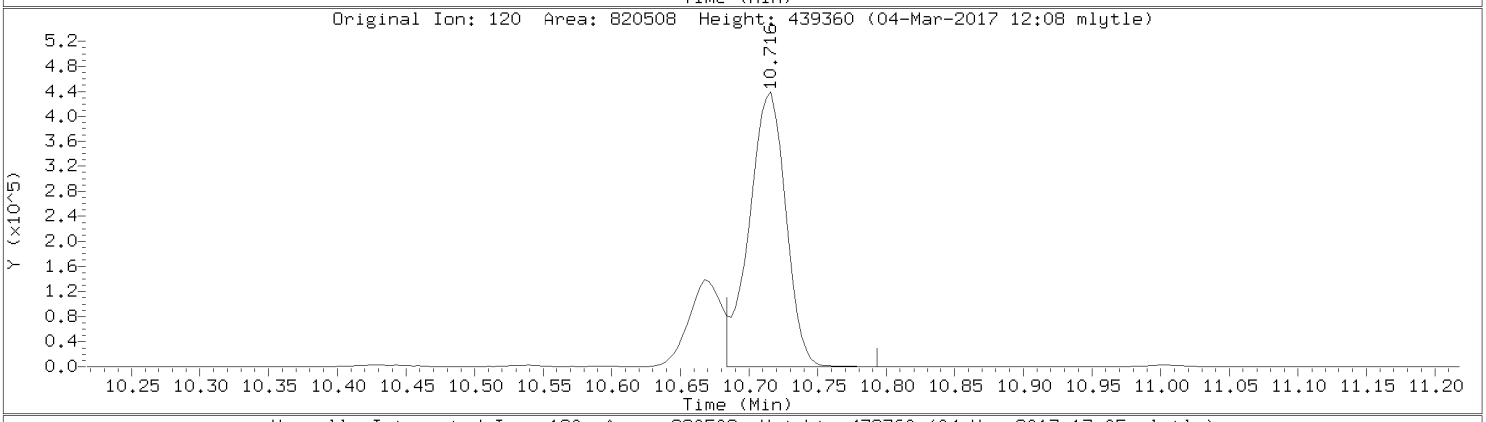


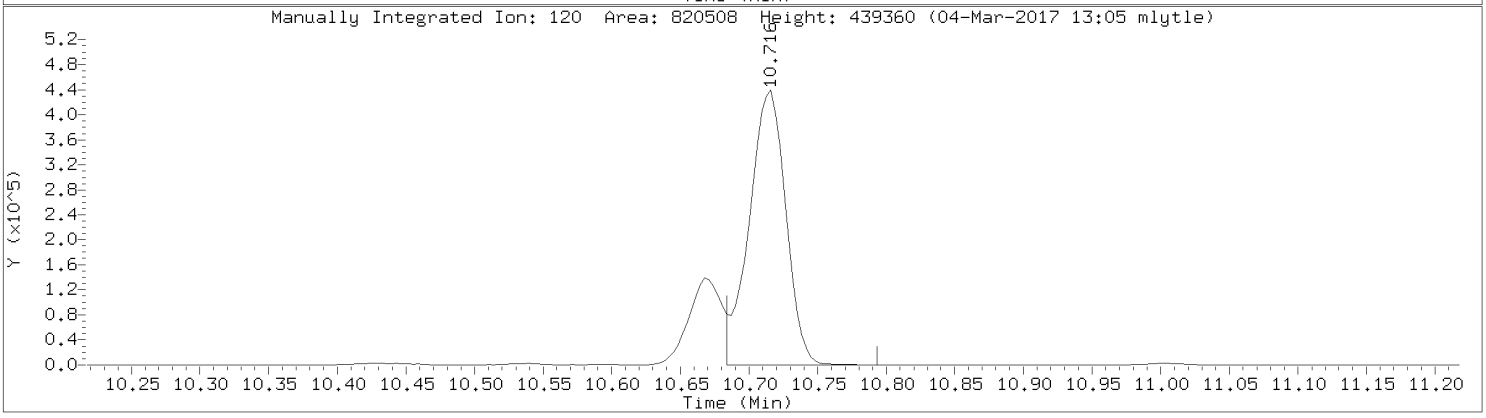
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06310.D
Injection Date: 04-MAR-2017 10:36
Instrument: 10air7.i
Lab Sample ID: CAL7

Compound: 1,2,3-Trimethylbenzene
CAS Number: 526-73-8









Data File: \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Lab Smp Id: ICV
Inj Date : 04-MAR-2017 11:23
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Meth Date : 04-Mar-2017 13:08 10air7.i Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						(D)
2	1,1-Difluoroethane	65	2.356	2.362	(0.523)	2069	0.17280	0.173(Q)	
3	Chlorodifluoromethane	67	2.365	2.372	(0.525)	67497	10.9326	10.9(Q)	
4	Propylene	41	2.372	2.378	(0.527)	159711	9.23030	9.23	
5	Dichlorodifluoromethane	85	2.391	2.401	(0.531)	656241	10.3620	10.4	
6	Chloromethane	50	2.459	2.468	(0.546)	253188	9.74563	9.75	
7	Dichlorotetrafluoroethane	85	2.459	2.465	(0.546)	590674	10.1814	10.2	
8	Vinyl chloride	62	2.520	2.526	(0.560)	195719	10.2660	10.3	
9	1,3-Butadiene	54	2.545	2.555	(0.565)	140472	10.0518	10.1	
10	Bromomethane	94	2.652	2.661	(0.589)	209504	10.1023	10.1	
11	Chloroethane	64	2.687	2.697	(0.597)	78817	10.5805	10.6	
12	Ethanol	45	2.706	2.729	(0.601)	76734	13.9344	13.9	
13	Vinyl Bromide	106	2.780	2.790	(0.617)	236932	11.0413	11.0	
14	Isopentane	43	2.790	2.799	(0.620)	208841	10.0130	10.0	
15	Freon 123	83	2.790	2.799	(0.620)	9259	0.19314	0.193	
16	Trichlorofluoromethane	101	2.851	2.861	(0.633)	659442	10.4794	10.5	
17	Acrolein	56	2.838	2.854	(0.630)	67453	13.0091	13.0	
18	Acetone	43	2.867	2.880	(0.637)	443890	12.1248	12.1	
19	Isopropyl Alcohol	45	2.886	2.915	(0.641)	393800	12.8133	12.8(Q)	
20	1,1-Dichloroethene	61	3.041	3.050	(0.675)	373748	10.7345	10.7	
21	Acrylonitrile	53	3.037	3.053	(0.674)	163962	11.5302	11.5	
22	Freon 113	101	3.070	3.079	(0.682)	504393	10.7173	10.7	
23	Tert Butyl Alcohol (TBA)	59	3.044	3.073	(0.676)	523632	12.7281	12.7	

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Methyl Acetate	43	3.041	3.076	(0.675)	89547	2.14338	2.14(Q)	
	25 Methylene chloride	49	3.111	3.124	(0.691)	305789	11.9610	12.0	
	26 Allyl Chloride	76	3.121	3.134	(0.693)	80705	13.3699	13.4(Q)	
	27 Carbon Disulfide	76	3.217	3.224	(0.714)	554526	12.5510	12.6	
	28 trans-1,2-dichloroethene	96	3.336	3.349	(0.741)	213831	11.4248	11.4	
	29 Methyl Tert Butyl Ether	73	3.353	3.365	(0.744)	574426	11.3643	11.4	
	30 Vinyl Acetate	43	3.430	3.442	(0.762)	607963	13.8064	13.8	
	31 1,1-Dichloroethane	63	3.446	3.459	(0.765)	399754	10.8959	10.9	
$	32 Hexane-d14(S)	66	3.520	3.526	(0.782)	236030	10.6289	10.6	
	33 Methyl Ethyl Ketone	72	3.568	3.581	(0.792)	76831	11.1148	11.1(M)	
	34 n-Hexane	57	3.600	3.606	(0.799)	297422	10.8832	10.9	
	35 Di-isopropyl Ether	45	3.610	3.623	(0.802)	725507	10.6373	10.6	
	36 cis-1,2-Dichloroethene	96	3.716	3.729	(0.825)	225675	11.1737	11.2	
	37 Ethyl Acetate	43	3.713	3.725	(0.824)	488977	11.2839	11.3	
	38 Ethyl Tert-Butyl Ether	59	3.806	3.819	(0.845)	723653	11.3835	11.4	
	39 Chloroform	83	3.816	3.828	(0.847)	495975	10.9953	11.0	
	40 Tetrahydrofuran	42	3.944	3.957	(0.876)	231029	10.9283	10.9	
	41 1,1,1-Trichloroethane	97	4.156	4.166	(0.923)	600172	10.8813	10.9	
	42 1,2-Dichloroethane	62	4.163	4.179	(0.924)	404571	10.9028	10.9	
	43 Benzene	78	4.362	4.375	(0.969)	622855	9.87831	9.88	
	44 Carbon tetrachloride	117	4.378	4.391	(0.972)	696048	11.5111	11.5	
	45 Cyclohexane	56	4.381	4.391	(0.973)	309661	9.80061	9.80	
	46 Tert Amyl Methyl Ether	73	4.488	4.500	(0.996)	633550	11.3913	11.4	
*	47 1,4-Difluorobenzene	114	4.504	4.513	(1.000)	813586	10.0000		
	48 2,2,4-Trimethylpentane	57	4.635	4.648	(1.029)	1042867	10.3104	10.3	
	49 Heptane	43	4.751	4.761	(1.055)	398405	9.64358	9.64	
	50 1,2-Dichloropropane	63	4.815	4.828	(1.069)	245185	10.1006	10.1	
	51 Trichloroethene	130	4.835	4.848	(1.074)	376908	9.81889	9.82	
	52 Methyl methacrylate	69	4.899	4.912	(1.088)	192539	10.2315	10.2	
	53 Bromodichloromethane	83	4.922	4.934	(1.093)	574401	10.8683	10.9	
	54 1,4-Dioxane	88	4.906	4.922	(1.089)	113259	10.8242	10.8	
	55 Methylcyclohexane	98	5.230	5.240	(1.161)	139496	10.2115	10.2	
	56 Methyl Isobutyl Ketone	43	5.336	5.352	(1.185)	612498	11.1061	11.1	
	57 cis-1,3-Dichloropropene	75	5.391	5.401	(1.197)	386090	10.8836	10.9	
	58 trans-1,3-Dichloropropene	75	5.764	5.777	(1.280)	358382	11.1695	11.2	
$	59 Toluene-d8 (S)	98	5.835	5.844	(1.296)	694390	10.1674	10.2	
	60 Toluene	91	5.905	5.915	(1.311)	772688	10.0500	10.1	
	61 1,1,2-Trichloroethane	97	5.905	5.918	(1.311)	294906	10.1823	10.2	
	62 Methyl Butyl Ketone	43	6.127	6.140	(0.838)	600583	11.7874	11.8	
	63 n-Octane	43	Compound Not Detected.						(D)
	64 Dibromochloromethane	129	6.394	6.407	(0.875)	714033	11.5800	11.6	
	65 1,2-Dibromoethane	107	6.610	6.619	(0.904)	514552	10.6337	10.6	
	66 Tetrachloroethene	166	6.684	6.693	(0.914)	518257	9.83775	9.84	
*	67 Chlorobenzene - d5	117	7.311	7.320	(1.000)	531321	10.0000		
	68 Chlorobenzene	112	7.352	7.359	(1.006)	642632	10.0325	10.0	
	69 Ethyl Benzene	91	7.593	7.603	(1.039)	989432	9.97254	9.97	
	70 m&p-Xylene	91	7.735	7.748	(1.058)	836644	10.7406	10.7	
	71 Bromoform	173	8.105	8.118	(1.109)	661286	13.2143	13.2	
	72 n-Nonane	43	8.130	8.140	(1.112)	31419	0.66060	0.661	
	73 Styrene	104	8.147	8.156	(1.114)	547726	10.8008	10.8	
	74 o-Xylene	91	8.211	8.220	(1.123)	772547	9.92376	9.92	
	75 1,1,2,2-Tetrachloroethane	83	8.468	8.478	(1.158)	502052	10.6809	10.7	
	76 Isopropylbenzene	105	8.780	8.786	(1.201)	1108932	10.3669	10.4	
	77 N-Propylbenzene	91	9.339	9.349	(1.278)	1165326	10.6804	10.7	

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Report Date: 04-Mar-2017 13:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	9.510	9.519	(1.301)	983558	10.4008	10.4
79	1,3,5-Trimethylbenzene	105	9.600	9.609	(1.313)	838083	10.3908	10.4
80	n-Decane	57	10.002	10.011	(2.221)	40775	1.12907	1.13
81	Tert-Butyl Benzene	119	10.095	10.105	(1.381)	885365	10.2525	10.3
82	1,2,4-Trimethylbenzene	105	10.114	10.124	(1.383)	790698	11.4428	11.4
83	1,3-Dichlorobenzene	146	10.417	10.423	(1.425)	546899	11.6814	11.7
84	Sec- Butylbenzene	105	10.439	10.449	(1.428)	1143762	10.9568	11.0
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.487	10.497	(1.435)	253297	11.6518	11.7(M)
86	Benzyl Chloride	91	10.507	10.516	(1.437)	459140	13.0273	13.0
87	1,4-Dichlorobenzene	146	10.529	10.539	(1.440)	503018	11.7174	11.7
88	p-Isopropyltoluene	119	10.661	10.671	(1.458)	946351	11.0525	11.1
89	1,2,3-Trimethylbenzene	105	10.706	10.716	(1.464)	756754	10.7252	10.7
90	1,2-Dichlorobenzene	146	10.999	11.002	(1.504)	477933	11.5643	11.6
91	N-Butylbenzene	91	11.253	11.259	(1.539)	709777	12.3336	12.3
92	1,2-Dibromo-3-Chloropropane	157	11.777	11.780	(1.611)	40954	4.15579	4.16
93	1,2,4-Trichlorobenzene	180	13.040	13.040	(1.784)	95537	19.6022	19.6(R)
94	Naphthalene	128	13.162	13.162	(1.800)	229281	26.2491	26.2(R)
95	Hexachlorobutadiene	225	13.426	13.426	(1.836)	205402	22.7634	22.8(R)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Report Date: 04-Mar-2017 13:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06312.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 09:46
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

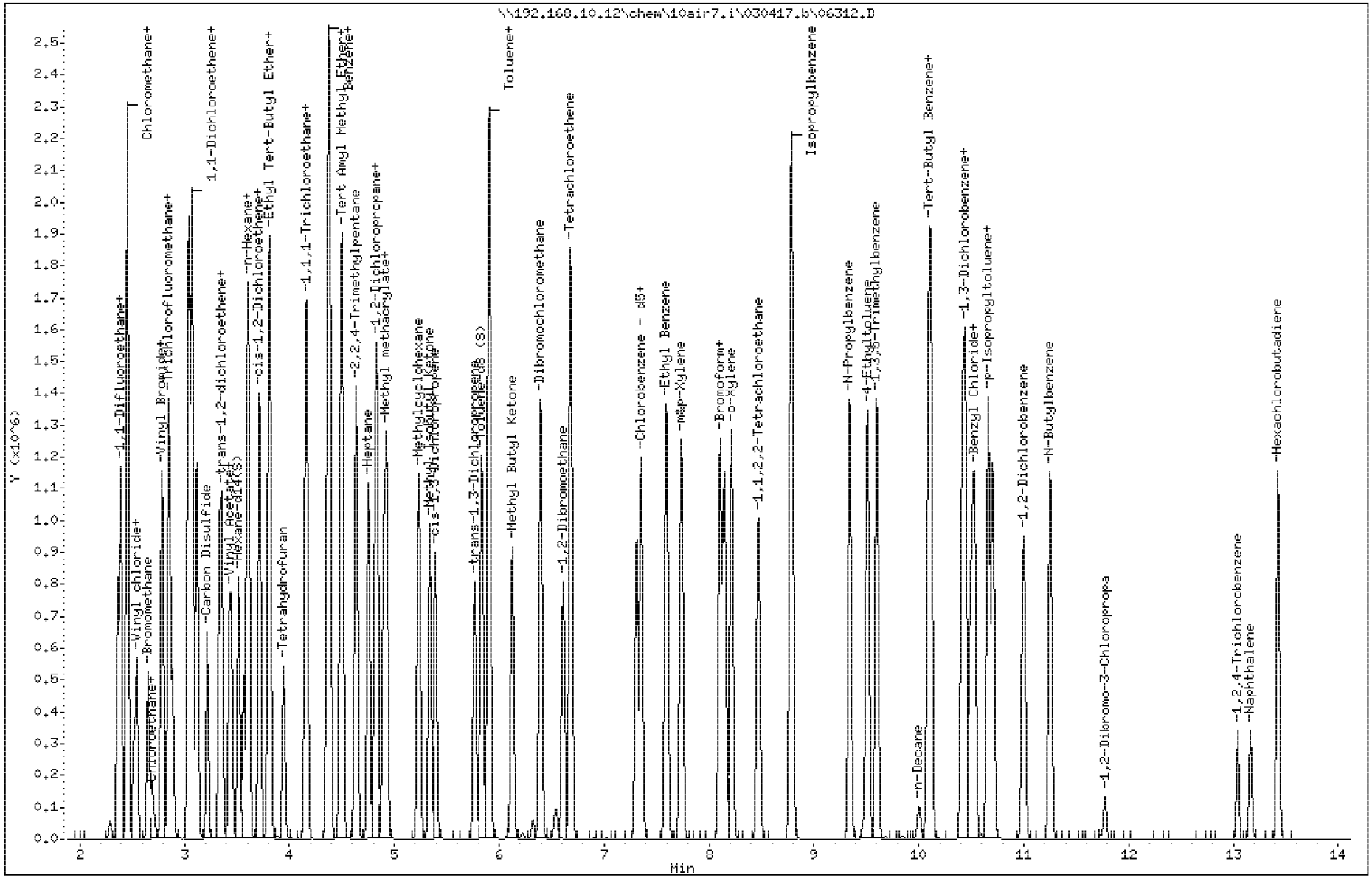
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	813586	-2.68
67 Chlorobenzene - d	539522	323713	755331	531321	-1.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.07
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

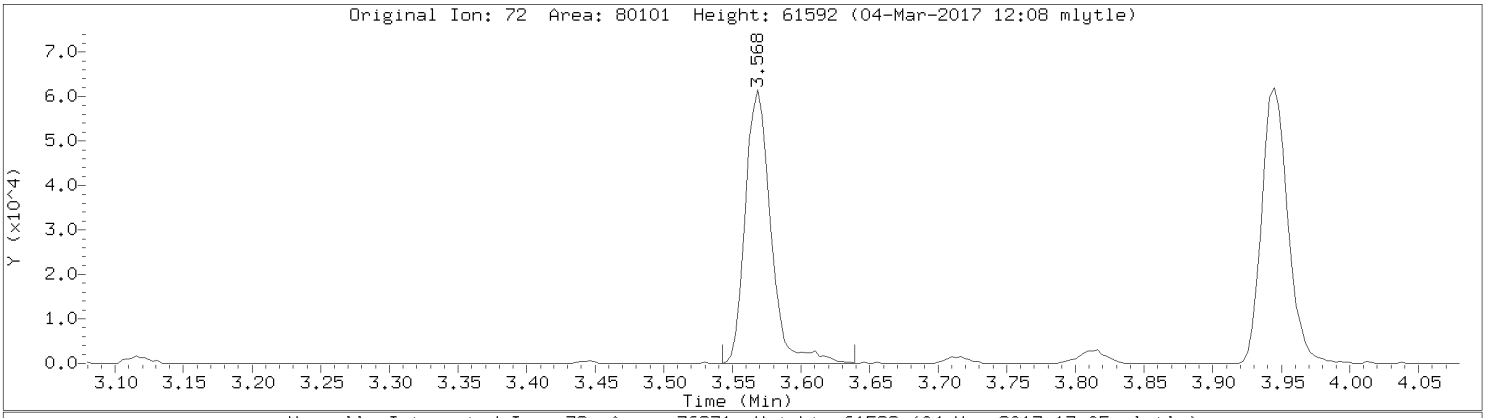
Data File: \\192.168.10.12\chem\10air7.i\030417.b\06312.D
Date : 04-MAR-2017 11:23
Client ID:
Sample Info:

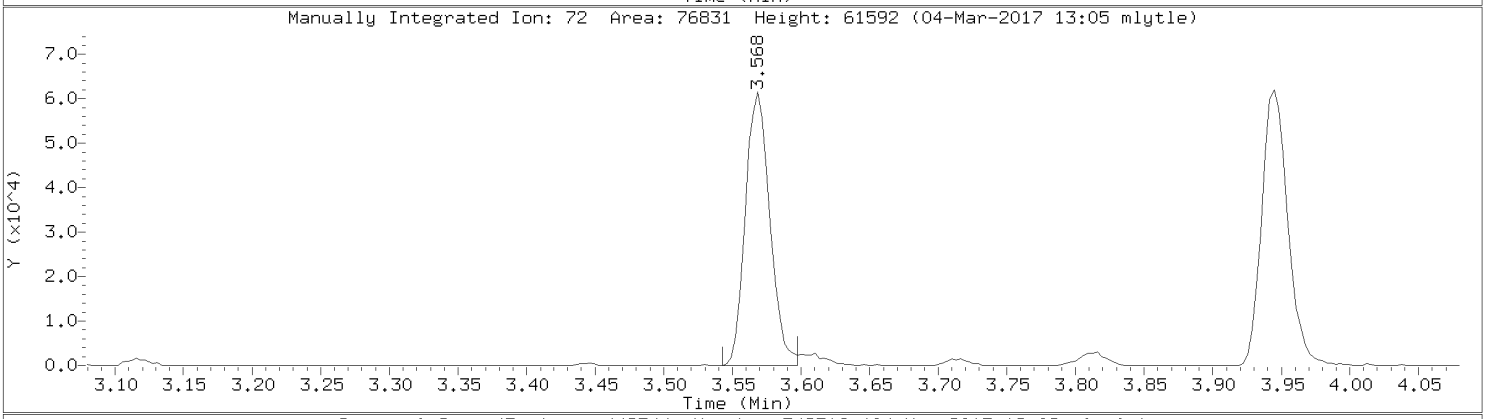
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

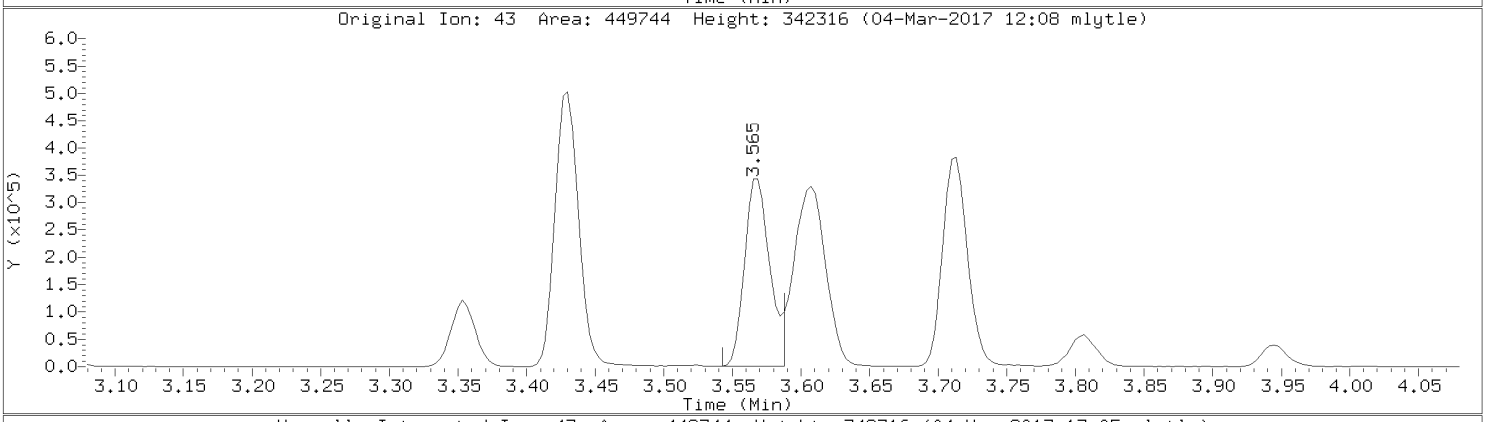


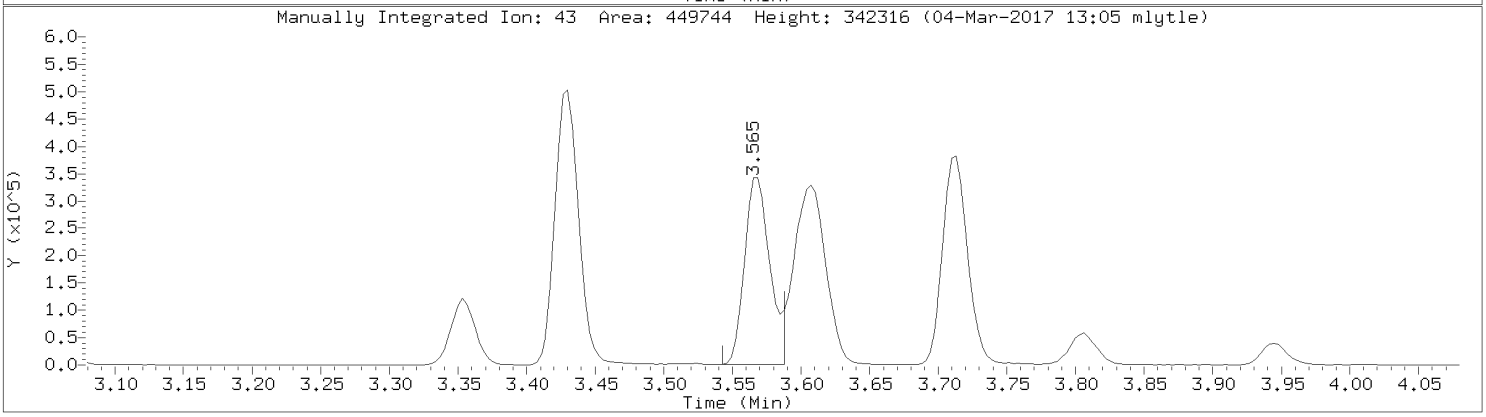
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06312.D
Injection Date: 04-MAR-2017 11:23
Instrument: 10air7.i
Lab Sample ID: ICV

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



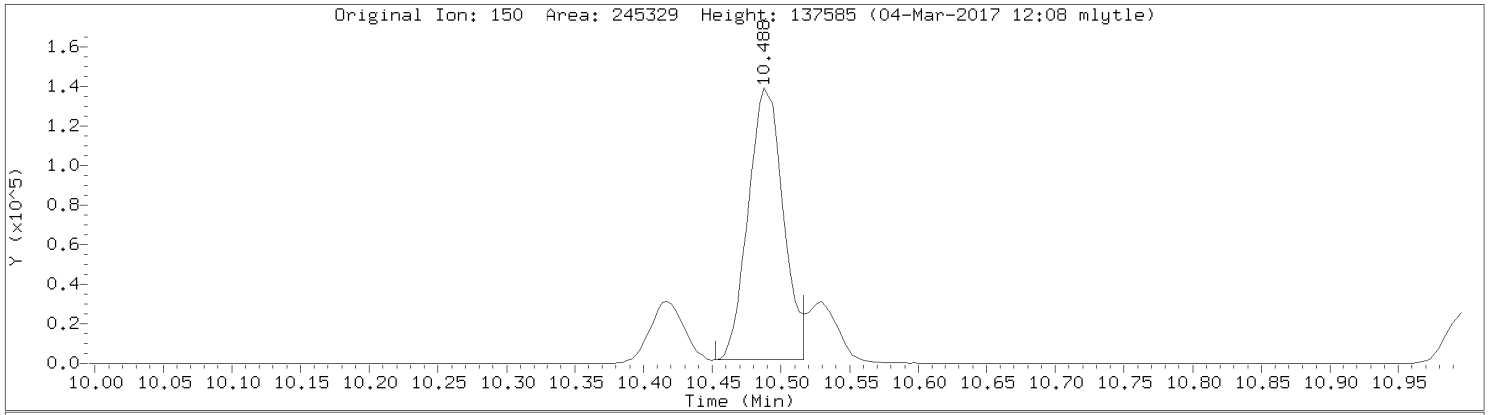


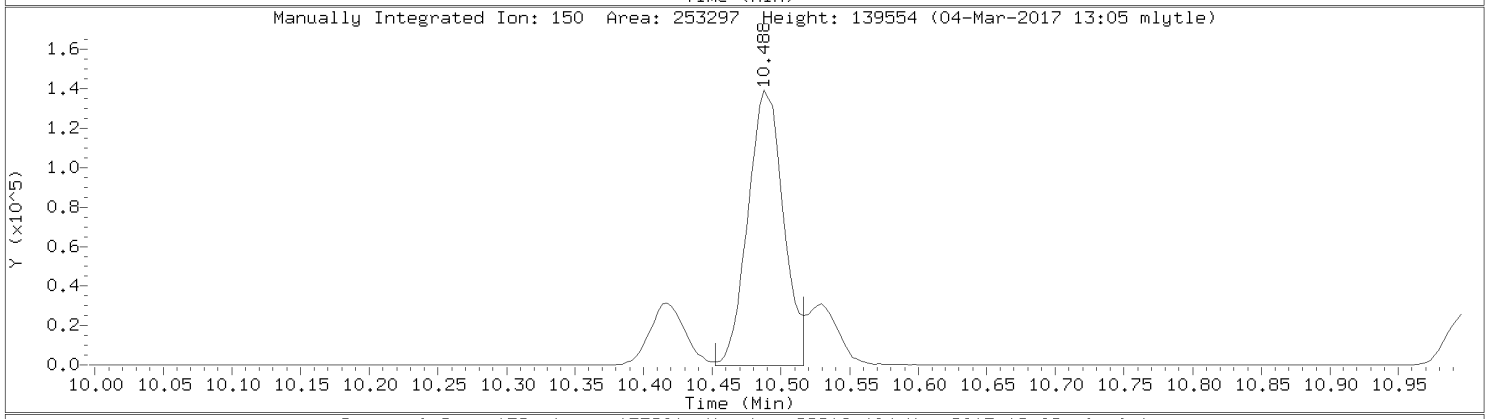


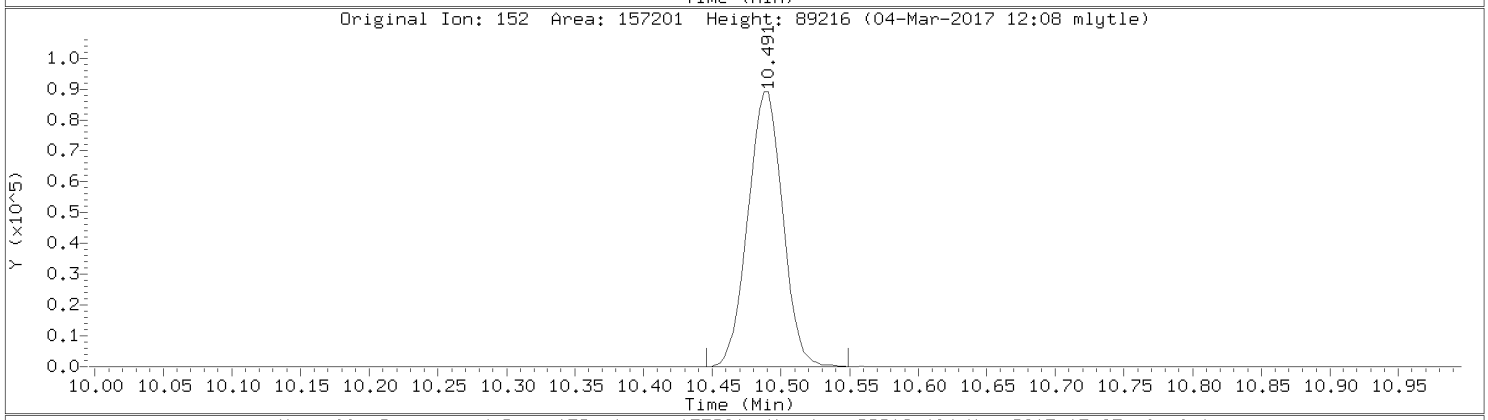


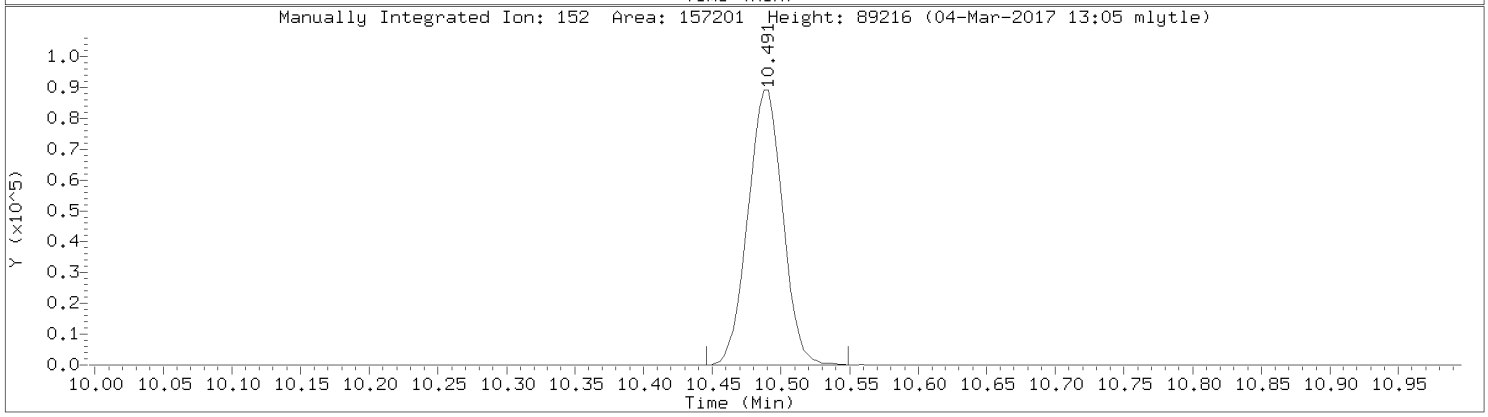
Data File: \\192.168.10.12\chem\10air7.i\030417.b/06312.D
Injection Date: 04-MAR-2017 11:23
Instrument: 10air7.i
Lab Sample ID: ICV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
1	Chloropentafluoroethane	++++	0.02467	0.02467	0.010	++++	30.00000	Aver	(a)	<-
2	1,1-Difluoroethane	0.14717	0.16070	0.16070	0.010	9.19075	30.00000	Aver		
3	Chlorodifluoromethane	0.07589	0.09014	0.09014	0.010	18.78115	30.00000	Aver		
4	Propylene	10.00000	10.39491	0.21712	0.010	3.94912	30.00000	Quad		
5	Dichlorodifluoromethane	0.77842	0.84732	0.84732	0.010	8.85147	30.00000	Aver		
6	Chloromethane	0.31932	0.39522	0.39522	0.010	23.76896	30.00000	Aver		
7	Dichlorotetrafluoroethane	0.71308	0.87638	0.87638	0.010	22.90060	30.00000	Aver		
8	Vinyl chloride	0.23433	0.30527	0.30527	0.010	30.27523	30.00000	Aver		<-
9	1,3-Butadiene	0.17177	0.22517	0.22517	0.010	31.09076	30.00000	Aver		<-
10	Bromomethane	0.25490	0.33911	0.33911	0.010	33.03582	30.00000	Aver		<-
11	Chloroethane	0.09156	0.12601	0.12601	0.010	37.62162	30.00000	Aver		<-
12	Ethanol	0.06769	0.10146	0.10146	0.005	49.89769	30.00000	Aver		<-
13	Vinyl Bromide	0.26375	0.35444	0.35444	0.010	34.38381	30.00000	Aver		<-
14	Isopentane	0.25636	0.33677	0.33677	0.010	31.36874	30.00000	Aver		<-
15	Freon 123	0.58924	0.76433	0.76433	0.010	29.71515	30.00000	Aver		
16	Trichlorofluoromethane	0.77346	0.99712	0.99712	0.010	28.91735	30.00000	Aver		
17	Acrolein	0.06373	0.10759	0.10759	0.010	68.81721	30.00000	Aver		<-
18	Acetone	0.44998	0.52379	0.52379	0.010	16.40266	30.00000	Aver	(M)	
19	Isopropyl Alcohol	0.37776	0.50842	0.50842	0.010	34.58851	30.00000	Aver	(M)	<-
20	1,1-Dichloroethene	0.42795	0.54717	0.54717	0.010	27.85938	30.00000	Aver		
21	Acrylonitrile	0.17478	0.23246	0.23246	0.010	33.00022	30.00000	Aver		<-
22	Freon 113	0.57847	0.74424	0.74424	0.010	28.65705	30.00000	Aver		
23	Tert Butyl Alcohol (TBA)	0.50566	0.67066	0.67066	0.010	32.63123	30.00000	Aver		<-
24	Methyl Acetate	0.51351	0.82768	0.82768	0.010	61.18090	30.00000	Aver		<-
25	Methylene chloride	0.31423	0.40695	0.40695	0.010	29.50656	30.00000	Aver		
26	Allyl Chloride	0.07419	0.11631	0.11631	0.010	56.75995	30.00000	Aver		<-
27	Carbon Disulfide	0.54305	0.75195	0.75195	0.010	38.46694	30.00000	Aver		<-
28	trans-1,2-dichloroethene	0.23005	0.31011	0.31011	0.010	34.80034	30.00000	Aver		<-
29	Methyl Tert Butyl Ether	0.62128	0.80114	0.80114	0.010	28.94925	30.00000	Aver		
30	Vinyl Acetate	0.54124	0.92853	0.92853	0.010	71.55574	30.00000	Aver		<-
31	1,1-Dichloroethane	0.45095	0.59948	0.59948	0.010	32.93880	30.00000	Aver		<-
$ 32	Hexane-d14(S)	0.27295	0.34769	0.34769	0.010	27.38392	30.00000	Aver		
33	Methyl Ethyl Ketone	0.08496	0.11690	0.11690	0.010	37.59416	30.00000	Aver	(M)	<-
34	n-Hexane	0.33590	0.44252	0.44252	0.010	31.74093	30.00000	Aver		<-
35	Di-isopropyl Ether	0.83832	1.14773	1.14773	0.010	36.90934	30.00000	Aver		<-
36	cis-1,2-Dichloroethene	0.24825	0.34100	0.34100	0.010	37.36292	30.00000	Aver		<-
37	Ethyl Acetate	0.53263	0.74553	0.74553	0.010	39.97234	30.00000	Aver	(M)	<-
38	Ethyl Tert-Butyl Ether	0.78136	1.03281	1.03281	0.010	32.18123	30.00000	Aver		<-
39	Chloroform	0.55443	0.74294	0.74294	0.010	33.99958	30.00000	Aver		<-
40	Tetrahydrofuran	0.25984	0.35926	0.35926	0.010	38.25941	30.00000	Aver		<-
41	1,1,1-Trichloroethane	0.67794	0.81945	0.81945	0.010	20.87318	30.00000	Aver		
42	1,2-Dichloroethane	0.45609	0.53209	0.53209	0.010	16.66260	30.00000	Aver		

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.77500	0.80498	0.80498	0.010	3.86803	30.00000	Aver		
	44 Carbon tetrachloride	0.74323	0.92152	0.92152	0.010	23.98948	30.00000	Aver		
	45 Cyclohexane	0.38836	0.39477	0.39477	0.010	1.65176	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.69668	0.79892	0.010	16.96676	30.00000	Line		
	48 2,2,4-Trimethylpentane	1.24323	1.25183	1.25183	0.010	0.69216	30.00000	Aver		
	49 Heptane	0.50779	0.51557	0.51557	0.010	1.53270	30.00000	Aver		
	50 1,2-Dichloropropane	0.29836	0.30815	0.30815	0.010	3.27955	30.00000	Aver		
	51 Trichloroethene	0.47181	0.47752	0.47752	0.010	1.21003	30.00000	Aver		
	52 Methyl methacrylate	0.23130	0.24772	0.24772	0.100	7.09771	30.00000	Aver		
	53 Bromodichloromethane	0.64960	0.74455	0.74455	0.010	14.61607	30.00000	Aver		
	54 1,4-Dioxane	0.12861	0.12973	0.12973	0.010	0.87017	30.00000	Aver		
	55 Methylcyclohexane	0.16791	0.17521	0.17521	0.010	4.35103	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.67786	0.71410	0.71410	0.010	5.34616	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.43603	0.49342	0.49342	0.010	13.16366	30.00000	Aver		
	58 trans-1,3-Dichloropropene	0.39438	0.46465	0.46465	0.010	17.81792	30.00000	Aver		
$	59 Toluene-d8 (S)	0.83944	0.83998	0.83998	0.010	0.06424	30.00000	Aver		
	60 Toluene	0.94500	0.96976	0.96976	0.010	2.62014	30.00000	Aver		
	61 1,1,2-Trichloroethane	0.35599	0.37560	0.37560	0.010	5.51036	30.00000	Aver		
	62 Methyl Butyl Ketone	0.95895	0.96352	0.96352	0.010	0.47665	30.00000	Aver		
	63 n-Octane	0.99651	0.98172	0.98172	0.010	-1.48414	30.00000	Aver		
	64 Dibromochloromethane	1.16053	1.41895	1.41895	0.010	22.26761	30.00000	Aver		
	65 1,2-Dibromoethane	0.91073	0.98957	0.98957	0.010	8.65734	30.00000	Aver		
	66 Tetrachloroethene	0.99150	0.99900	0.99900	0.010	0.75614	30.00000	Aver		
	68 Chlorobenzene	1.20558	1.24982	1.24982	0.010	3.66928	30.00000	Aver		
	69 Ethyl Benzene	1.86734	1.87603	1.87603	0.010	0.46550	30.00000	Aver		
	70 m&p-Xylene	1.46607	1.44383	1.44383	0.010	-1.51751	30.00000	Aver		
	71 Bromoform	0.94186	1.30855	1.30855	0.010	38.93275	30.00000	Aver		<-
	72 n-Nonane	0.89515	0.94581	0.94581	0.010	5.65972	30.00000	Aver		
	73 Styrene	0.95444	1.02412	1.02412	0.010	7.30062	30.00000	Aver		
	74 o-Xylene	1.46518	1.45915	1.45915	0.010	-0.41202	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.88468	0.90439	0.90439	0.010	2.22794	30.00000	Aver		
	76 Isopropylbenzene	2.01325	2.06612	2.06612	0.010	2.62627	30.00000	Aver		
	77 N-Propylbenzene	2.05353	2.15278	2.15278	0.010	4.83324	30.00000	Aver		
	78 4-Ethyltoluene	1.77983	1.84975	1.84975	0.010	3.92880	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.51803	1.55945	1.55945	0.010	2.72848	30.00000	Aver		
	80 n-Decane	0.44389	0.51638	0.51638	0.010	16.33197	30.00000	Aver		
	81 Tert-Butyl Benzene	1.62531	1.65129	1.65129	0.010	1.59888	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.30053	1.43062	1.43062	0.010	10.00293	30.00000	Aver		
	83 1,3-Dichlorobenzene	0.88116	0.96215	0.96215	0.010	9.19156	30.00000	Aver		
	84 Sec- Butylbenzene	1.96470	2.03457	2.03457	0.010	3.55622	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.40915	0.53689	0.53689	0.010	31.22218	30.00000	Aver	(M)	<-
	86 Benzyl Chloride	0.66334	0.81896	0.81896	0.010	23.46084	30.00000	Aver		

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.80797	0.88668	0.88668	0.010	9.74186	30.00000	Aver		
88 p-Isopropyltoluene	1.61151	1.69935	1.69935	0.010	5.45077	30.00000	Aver		
89 1,2,3-Trimethylbenzene	1.32799	1.35058	1.35058	0.010	1.70138	30.00000	Aver		
90 1,2-Dichlorobenzene	0.77784	0.82980	0.82980	0.010	6.67965	30.00000	Aver		
91 N-Butylbenzene	1.08312	1.19374	1.19374	0.010	10.21358	30.00000	Aver		
92 1,2-Dibromo-3-Chloropropane	0.18548	0.26447	0.26447	0.010	42.59310	30.00000	Aver		<-
93 1,2,4-Trichlorobenzene	10.00000	14.01379	0.12838	0.010	40.13788	30.00000	Line		<-
94 Naphthalene	10.00000	15.43546	0.25541	0.010	54.35462	30.00000	Line		<-
95 Hexachlorobutadiene	10.00000	14.18942	0.25812	0.010	41.89416	30.00000	Quad		<-

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Average %D / Drift Results.
Calculated Average %D/Drift = 20.47311
Maximun Average %D/Drift = 0.000e+000
* Failed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Lab Smp Id: CCV
Inj Date : 05-MAR-2017 10:57
Operator : MJL Inst ID: 10air7.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Meth Date : 05-Mar-2017 11:12 mlytle Quant Type: ISTD
Cal Date : 04-MAR-2017 10:36 Cal File: 06310.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
2	1,1-Difluoroethane	65	2.352	2.352	(0.522)	115964	10.0000	10.9
3	Chlorodifluoromethane	67	2.365	2.365	(0.525)	65046	10.0000	11.9
4	Propylene	41	2.372	2.372	(0.527)	156681	10.0000	10.4
5	Dichlorodifluoromethane	85	2.391	2.391	(0.531)	611457	10.0000	10.9
6	Chloromethane	50	2.459	2.459	(0.546)	285206	10.0000	12.4
7	Dichlorotetrafluoroethane	85	2.459	2.459	(0.546)	632423	10.0000	12.3
8	Vinyl chloride	62	2.516	2.516	(0.559)	220296	10.0000	13.0
9	1,3-Butadiene	54	2.545	2.545	(0.565)	162492	10.0000	13.1
10	Bromomethane	94	2.651	2.651	(0.589)	244711	10.0000	13.3
11	Chloroethane	64	2.687	2.687	(0.597)	90931	10.0000	13.8
12	Ethanol	45	2.713	2.713	(0.602)	366081	50.0000	74.9
13	Vinyl Bromide	106	2.780	2.780	(0.617)	255778	10.0000	13.4
14	Isopentane	43	2.790	2.790	(0.620)	243028	10.0000	13.1
15	Freon 123	83	2.793	2.793	(0.620)	551570	10.0000	13.0
16	Trichlorofluoromethane	101	2.851	2.851	(0.633)	719556	10.0000	12.9
17	Acrolein	56	2.841	2.841	(0.631)	194100	25.0000	42.2
18	Acetone	43	2.870	2.870	(0.637)	1889934	50.0000	58.2(M)
19	Isopropyl Alcohol	45	2.893	2.893	(0.642)	1834451	50.0000	67.3(M)
20	1,1-Dichloroethene	61	3.041	3.041	(0.675)	394860	10.0000	12.8
21	Acrylonitrile	53	3.041	3.041	(0.675)	419385	25.0000	33.3
22	Freon 113	101	3.073	3.073	(0.682)	537070	10.0000	12.9
23	Tert Butyl Alcohol (TBA)	59	3.050	3.050	(0.677)	1209933	25.0000	33.2
24	Methyl Acetate	43	3.066	3.066	(0.681)	597280	10.0000	16.1

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)	
	25 Methylene chloride	49	3.115	3.115	(0.692)	1468350	50.0000	64.8	
	26 Allyl Chloride	76	3.124	3.124	(0.694)	209827	25.0000	39.2	
	27 Carbon Disulfide	76	3.217	3.217	(0.714)	542630	10.0000	13.8	
	28 trans-1,2-dichloroethene	96	3.340	3.340	(0.742)	223783	10.0000	13.5	
	29 Methyl Tert Butyl Ether	73	3.356	3.356	(0.745)	1445324	25.0000	32.2	
	30 Vinyl Acetate	43	3.433	3.433	(0.762)	670061	10.0000	17.2	
	31 1,1-Dichloroethane	63	3.449	3.449	(0.766)	432608	10.0000	13.3	
$	32 Hexane-d14(S)	66	3.520	3.520	(0.782)	250904	10.0000	12.7	
	33 Methyl Ethyl Ketone	72	3.571	3.571	(0.793)	84362	10.0000	13.8	(M)
	34 n-Hexane	57	3.600	3.600	(0.799)	319338	10.0000	13.2	
	35 Di-isopropyl Ether	45	3.613	3.613	(0.802)	828243	10.0000	13.7	
	36 cis-1,2-Dichloroethene	96	3.719	3.719	(0.826)	246076	10.0000	13.7	
	37 Ethyl Acetate	43	3.713	3.713	(0.824)	538003	10.0000	14.0	(M)
	38 Ethyl Tert-Butyl Ether	59	3.809	3.809	(0.846)	1863271	25.0000	33.0	
	39 Chloroform	83	3.819	3.819	(0.848)	536131	10.0000	13.4	
	40 Tetrahydrofuran	42	3.947	3.947	(0.876)	259251	10.0000	13.8	
	41 1,1,1-Trichloroethane	97	4.156	4.156	(0.923)	591343	10.0000	12.1	
	42 1,2-Dichloroethane	62	4.166	4.166	(0.925)	383973	10.0000	11.7	
	43 Benzene	78	4.365	4.365	(0.969)	580898	10.0000	10.4	
	44 Carbon tetrachloride	117	4.381	4.381	(0.973)	665001	10.0000	12.4	
	45 Cyclohexane	56	4.385	4.385	(0.974)	284880	10.0000	10.2	
	46 Tert Amyl Methyl Ether	73	4.491	4.491	(0.997)	576530	10.0000	11.7	
*	47 1,4-Difluorobenzene	114	4.504	4.504	(1.000)	721634	10.0000		
	48 2,2,4-Trimethylpentane	57	4.639	4.639	(1.030)	2258413	25.0000	25.2	
	49 Heptane	43	4.754	4.754	(1.056)	372054	10.0000	10.2	
	50 1,2-Dichloropropane	63	4.815	4.815	(1.069)	222369	10.0000	10.3	
	51 Trichloroethene	130	4.835	4.835	(1.074)	344596	10.0000	10.1	
	52 Methyl methacrylate	69	4.899	4.899	(1.088)	178761	10.0000	10.7	
	53 Bromodichloromethane	83	4.925	4.925	(1.094)	537293	10.0000	11.5	
	54 1,4-Dioxane	88	4.909	4.909	(1.090)	93617	10.0000	10.1	
	55 Methylcyclohexane	98	5.233	5.233	(1.162)	126440	10.0000	10.4	
	56 Methyl Isobutyl Ketone	43	5.339	5.339	(1.186)	1288295	25.0000	26.3	
	57 cis-1,3-Dichloropropene	75	5.391	5.391	(1.197)	356070	10.0000	11.3	
	58 trans-1,3-Dichloropropene	75	5.767	5.767	(1.281)	335304	10.0000	11.8	
$	59 Toluene-d8 (S)	98	5.835	5.835	(1.296)	606161	10.0000	10.0	
	60 Toluene	91	5.905	5.905	(1.311)	699814	10.0000	10.3	
	61 1,1,2-Trichloroethane	97	5.909	5.909	(1.312)	271048	10.0000	10.6	
	62 Methyl Butyl Ketone	43	6.127	6.127	(0.838)	1149891	25.0000	25.1	
	63 n-Octane	43	6.327	6.327	(0.865)	468643	10.0000	9.85	
	64 Dibromochloromethane	129	6.397	6.397	(0.875)	677361	10.0000	12.2	
	65 1,2-Dibromoethane	107	6.613	6.613	(0.905)	472392	10.0000	10.9	
	66 Tetrachloroethene	166	6.683	6.683	(0.914)	476890	10.0000	10.1	
*	67 Chlorobenzene - d5	117	7.310	7.310	(1.000)	477369	10.0000		
	68 Chlorobenzene	112	7.352	7.352	(1.006)	596623	10.0000	10.4	
	69 Ethyl Benzene	91	7.597	7.597	(1.039)	895559	10.0000	10.0	
	70 m&p-Xylene	91	7.738	7.738	(1.058)	1378476	20.0000	19.7	
	71 Bromoform	173	8.108	8.108	(1.109)	624663	10.0000	13.9	
	72 n-Nonane	43	8.134	8.134	(1.113)	451501	10.0000	10.6	
	73 Styrene	104	8.150	8.150	(1.115)	488885	10.0000	10.7	
	74 o-Xylene	91	8.214	8.214	(1.124)	696551	10.0000	9.96	
	75 1,1,2,2-Tetrachloroethane	83	8.468	8.468	(1.158)	431727	10.0000	10.2	
	76 Isopropylbenzene	105	8.783	8.783	(1.201)	986304	10.0000	10.3	
	77 N-Propylbenzene	91	9.343	9.343	(1.278)	1027672	10.0000	10.5	
	78 4-Ethyltoluene	105	9.513	9.513	(1.301)	883015	10.0000	10.4	

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
79	1,3,5-Trimethylbenzene	105	9.603	9.603	(1.314)	744432	10.0000	10.3
80	n-Decane	57	10.005	10.005	(2.221)	372638	10.0000	11.6
81	Tert-Butyl Benzene	119	10.098	10.098	(1.381)	788277	10.0000	10.2
82	1,2,4-Trimethylbenzene	105	10.114	10.114	(1.383)	682933	10.0000	11.0
83	1,3-Dichlorobenzene	146	10.420	10.420	(1.425)	459301	10.0000	10.9
84	Sec- Butylbenzene	105	10.439	10.439	(1.428)	971240	10.0000	10.4
$ 85	1,4-dichlorobenzene-d4 (S)	150	10.487	10.487	(1.435)	256295	10.0000	13.1(M)
86	Benzyl Chloride	91	10.506	10.506	(1.437)	390946	10.0000	12.3
87	1,4-Dichlorobenzene	146	10.529	10.529	(1.440)	423275	10.0000	11.0
88	p-Isopropyltoluene	119	10.661	10.661	(1.458)	811217	10.0000	10.5
89	1,2,3-Trimethylbenzene	105	10.706	10.706	(1.464)	644726	10.0000	10.2
90	1,2-Dichlorobenzene	146	10.998	10.998	(1.504)	396119	10.0000	10.7
91	N-Butylbenzene	91	11.252	11.252	(1.539)	569855	10.0000	11.0
92	1,2-Dibromo-3-Chloropropane	157	11.777	11.777	(1.611)	126252	10.0000	14.3
93	1,2,4-Trichlorobenzene	180	13.037	13.037	(1.783)	61285	10.0000	14.0
94	Naphthalene	128	13.156	13.156	(1.800)	121926	10.0000	15.4
95	Hexachlorobutadiene	225	13.420	13.420	(1.836)	123217	10.0000	14.2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10air7.i
Lab File ID: 06405.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m
Misc Info:

Calibration Date: 05-MAR-2017
Calibration Time: 09:31
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

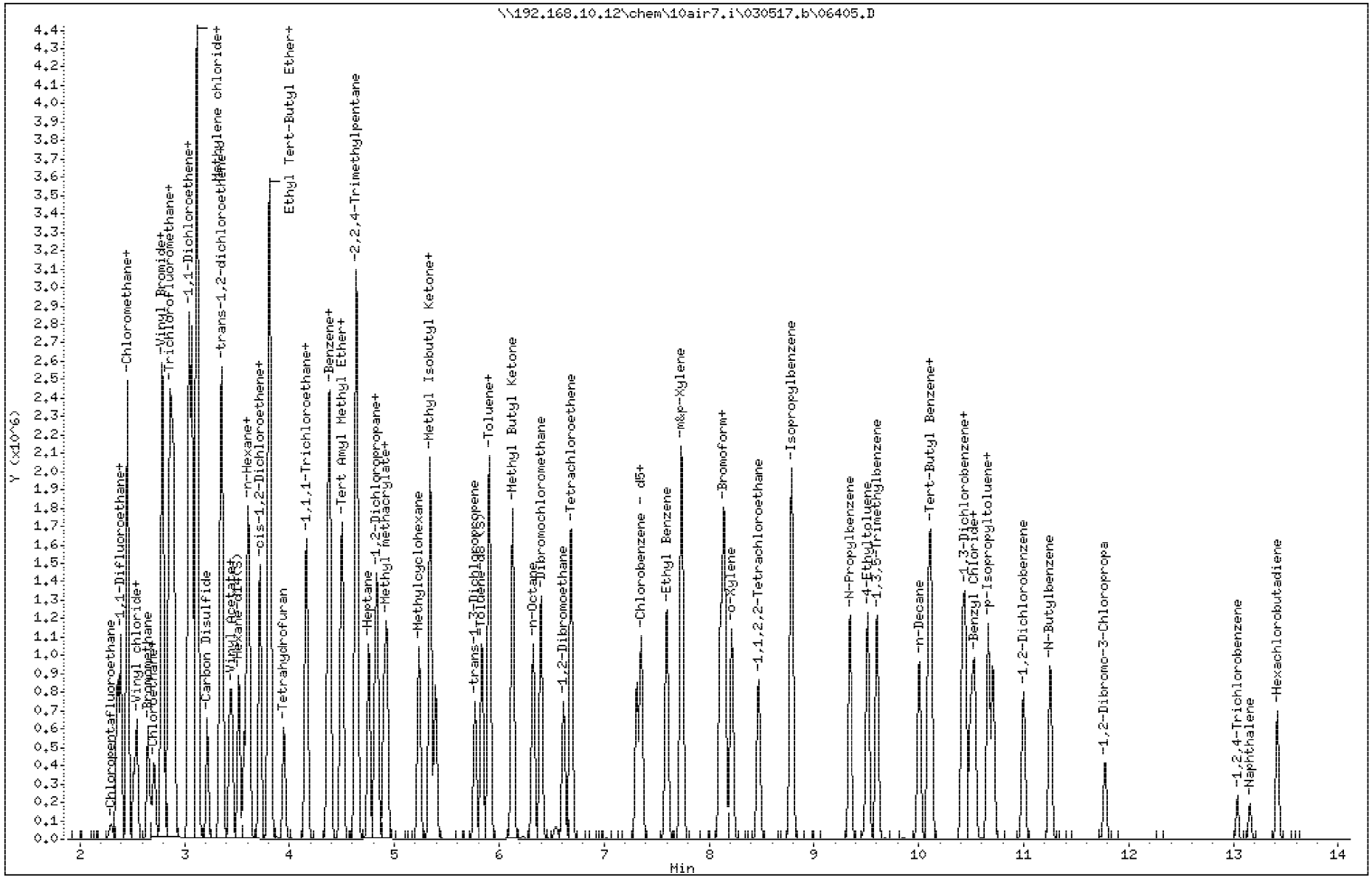
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	835982	501589	1170375	721634	-13.68
67 Chlorobenzene - d	539522	323713	755331	477369	-11.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	4.51	4.18	4.84	4.50	-0.07
67 Chlorobenzene - d	7.31	6.98	7.64	7.31	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

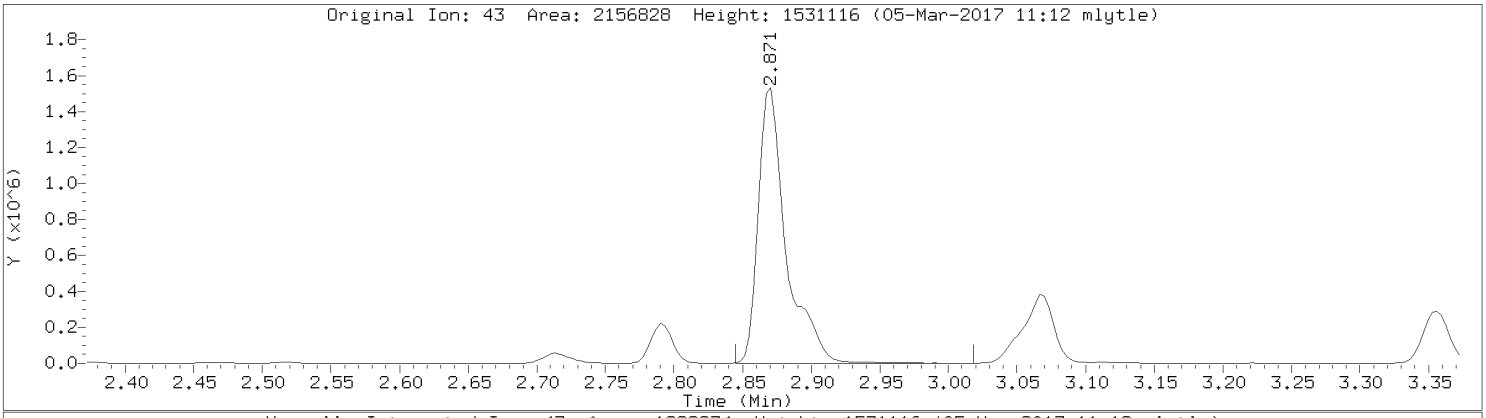
Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Date : 05-MAR-2017 10:57
Client ID:
Sample Info:

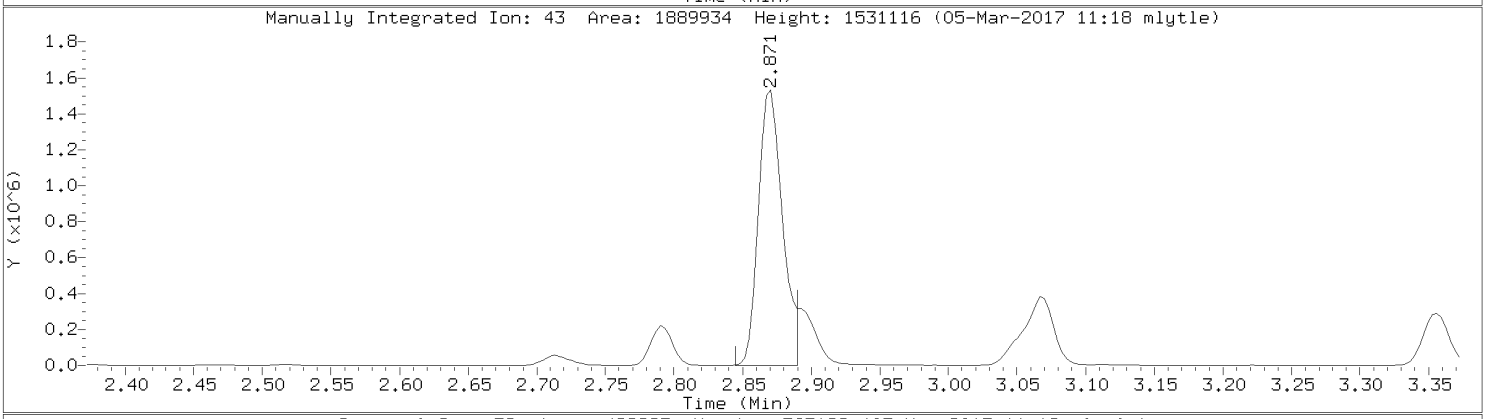
Instrument: 10air7.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

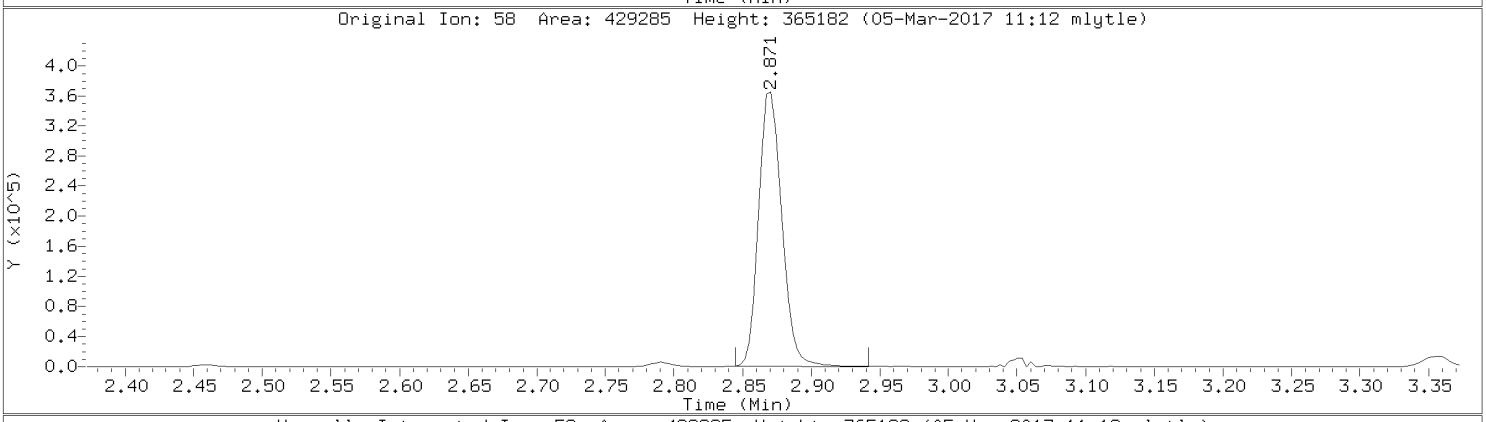


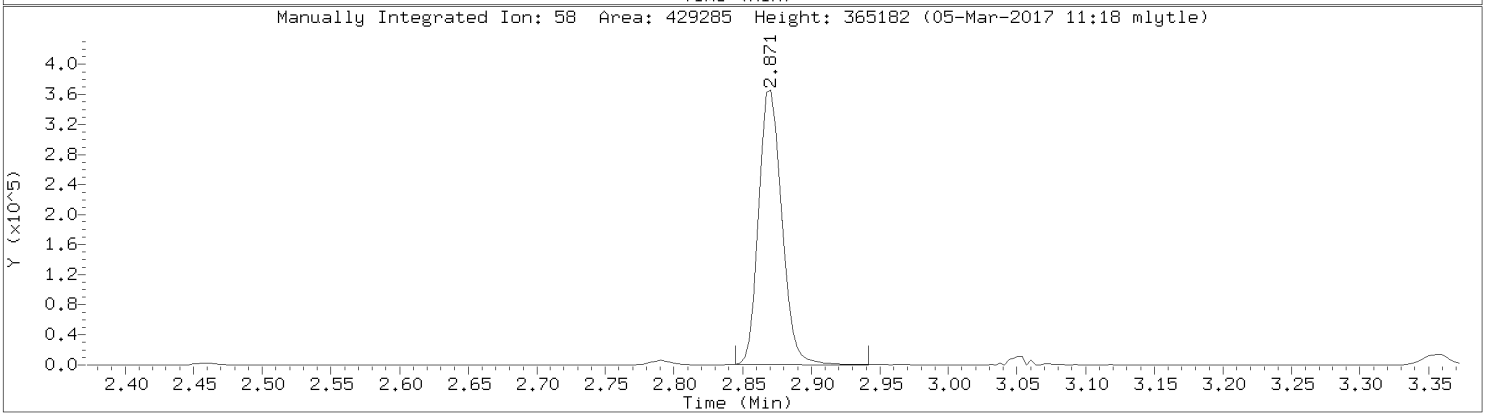
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

Compound: Acetone
CAS Number: 67-64-1



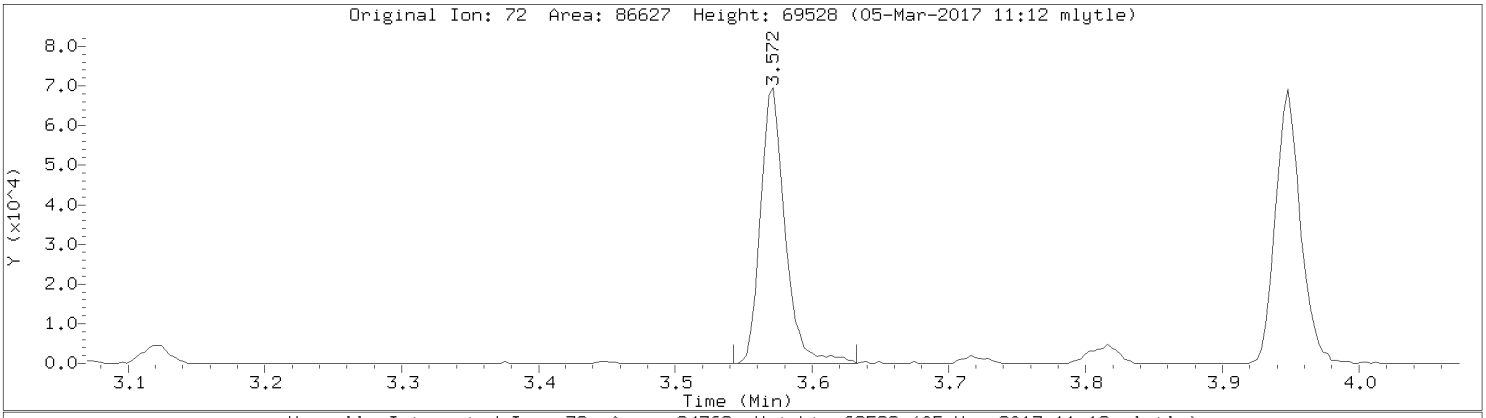


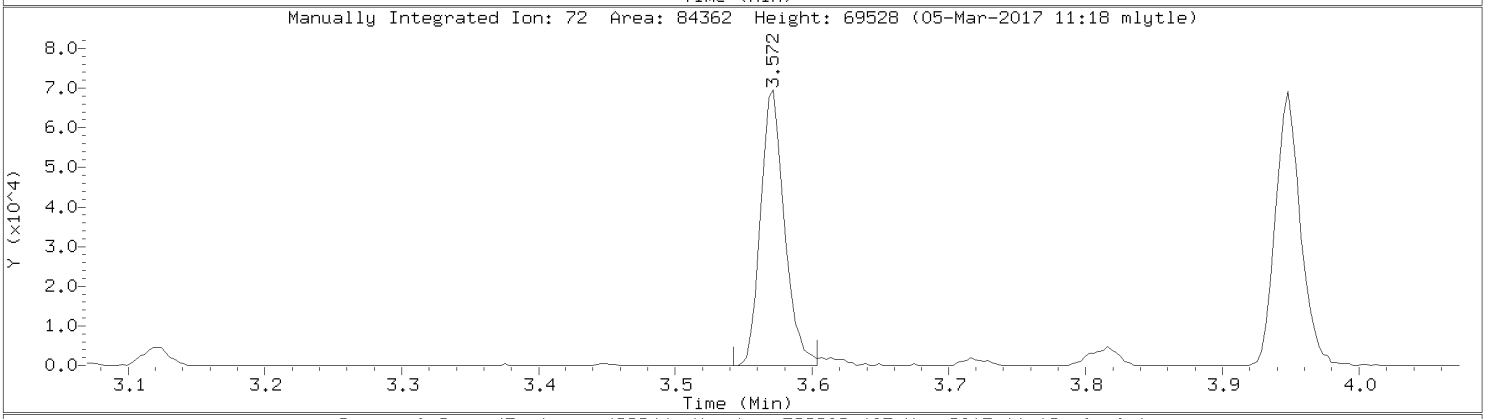


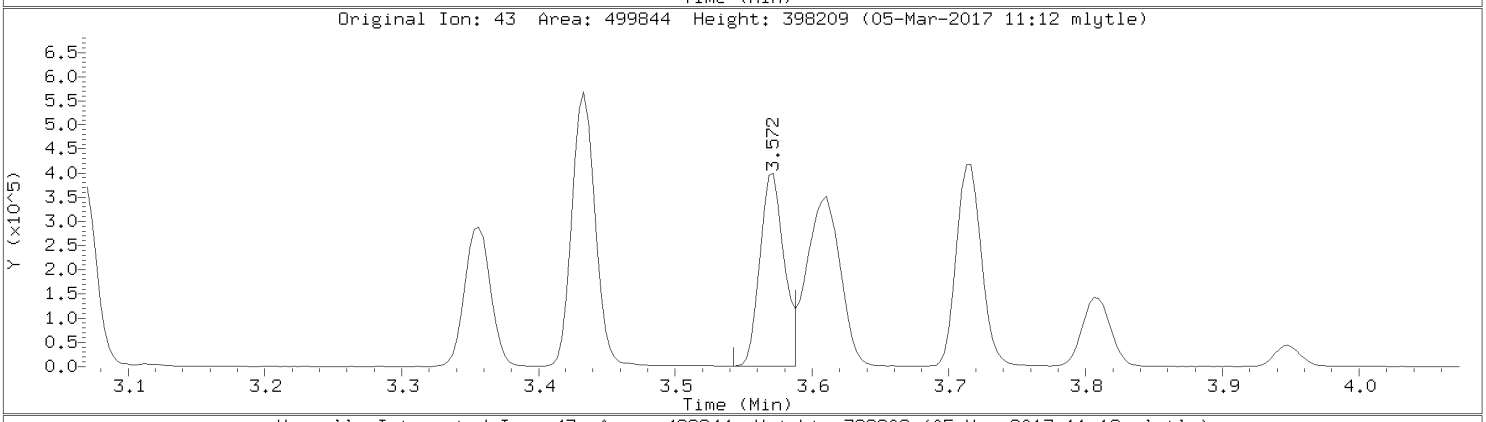


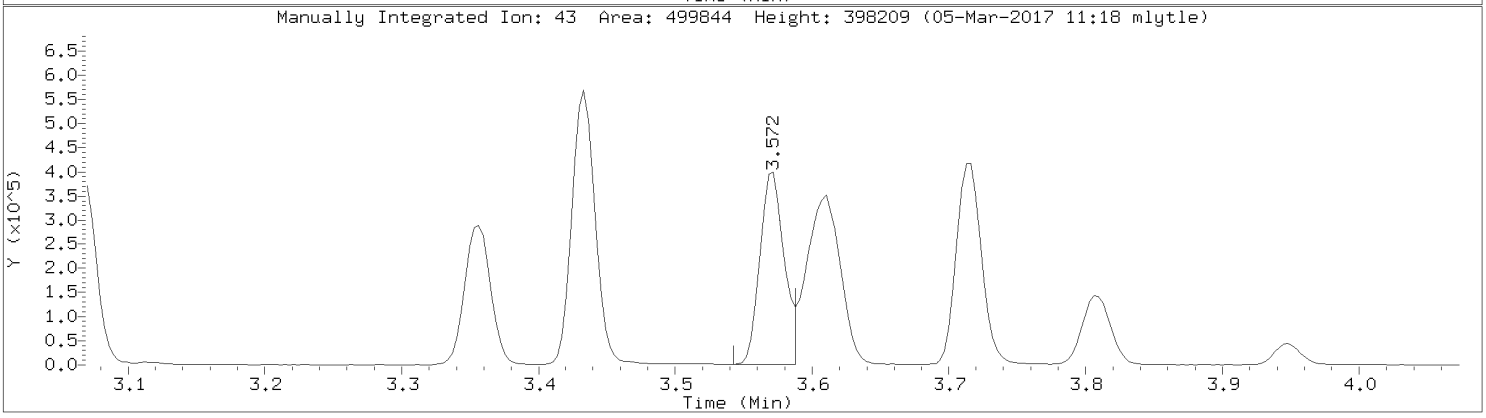
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



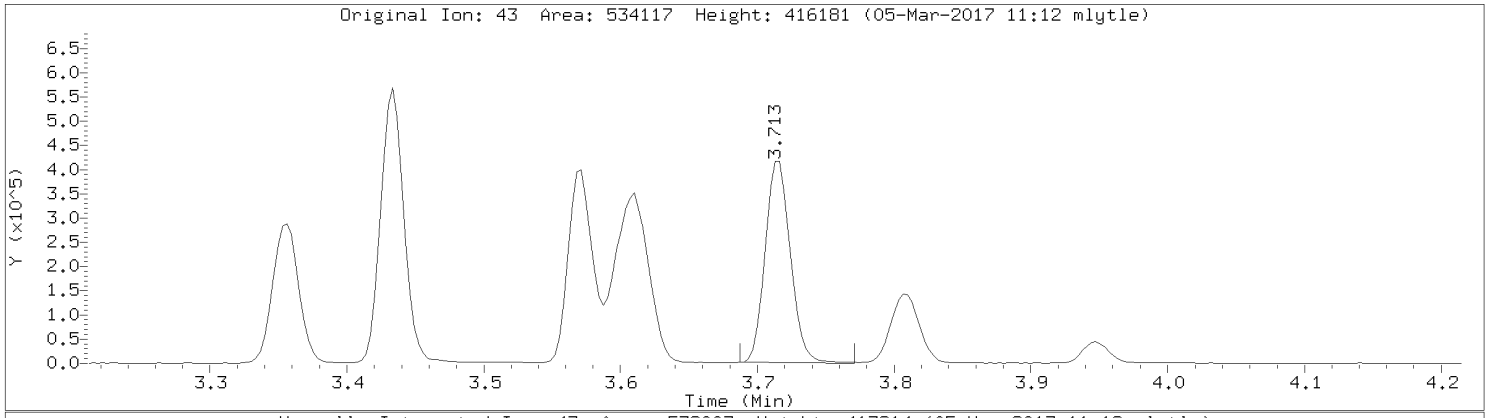


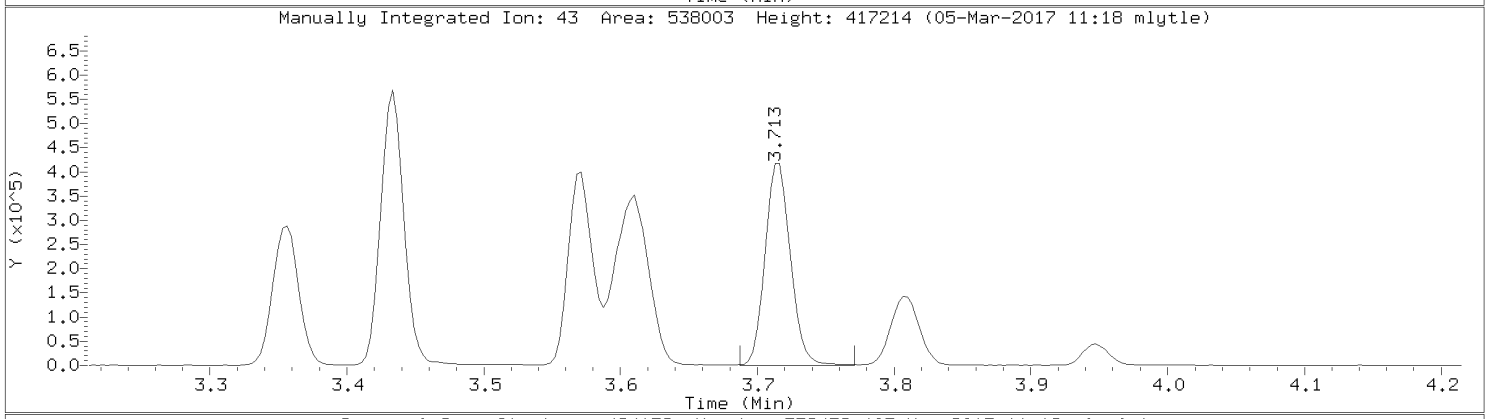


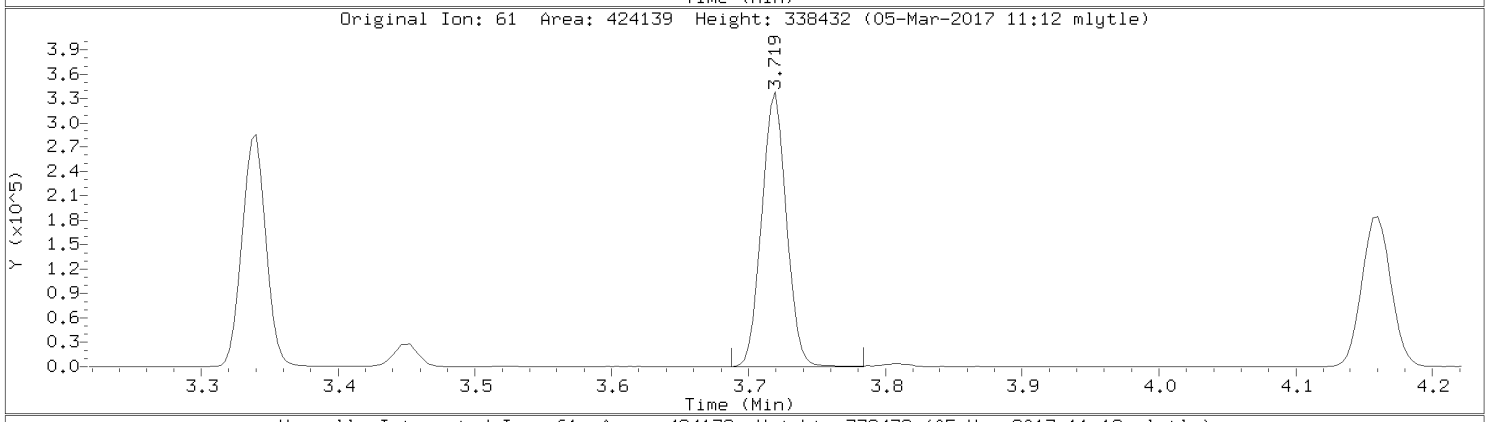


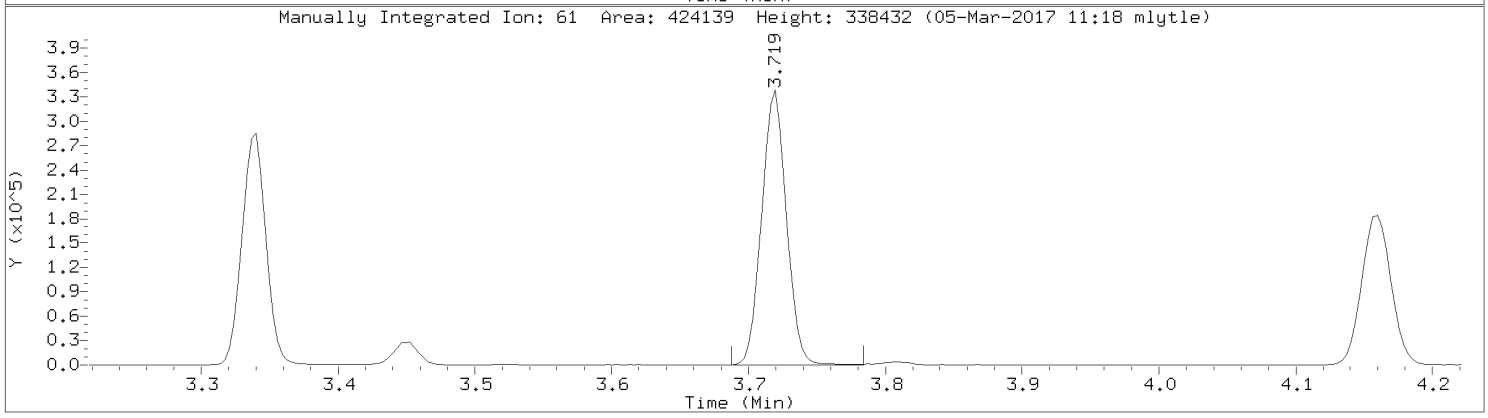
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

Compound: Ethyl Acetate
CAS Number: 141-78-6

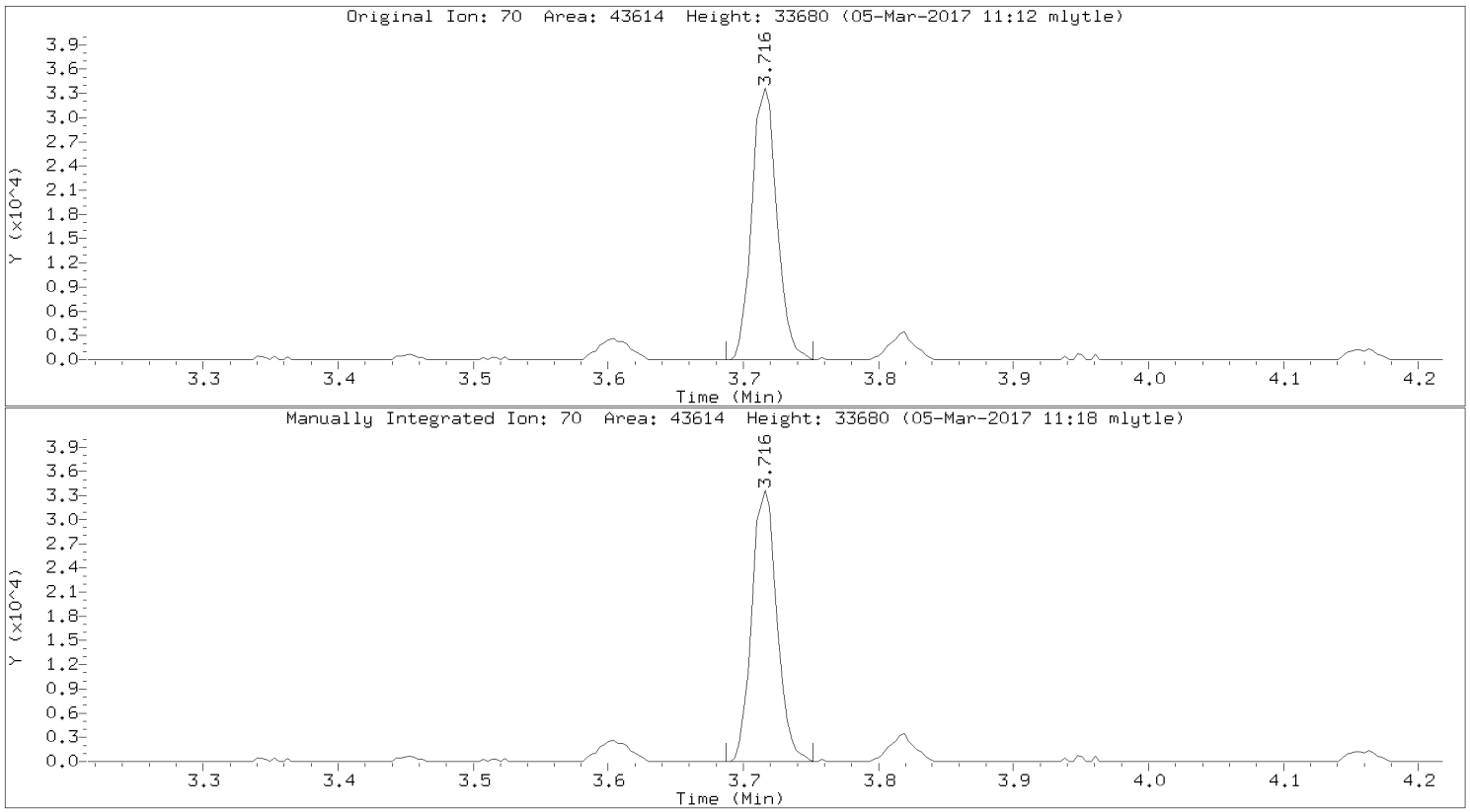






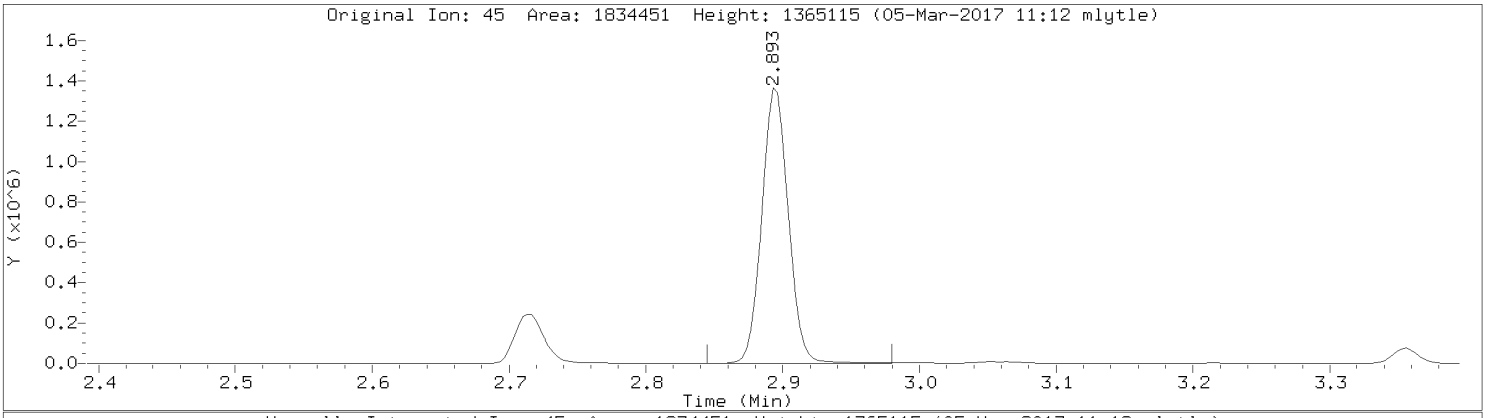


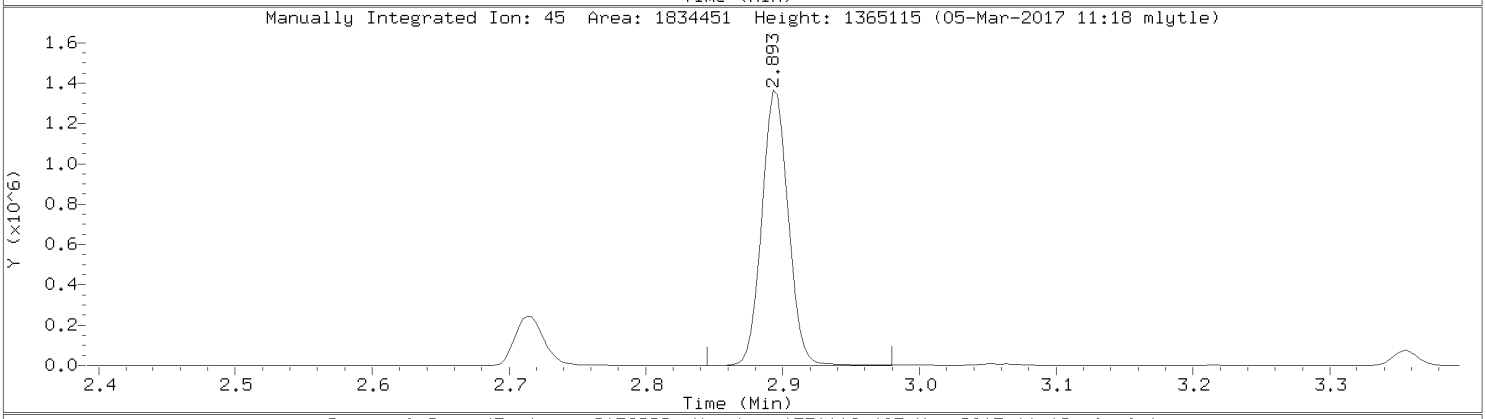
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

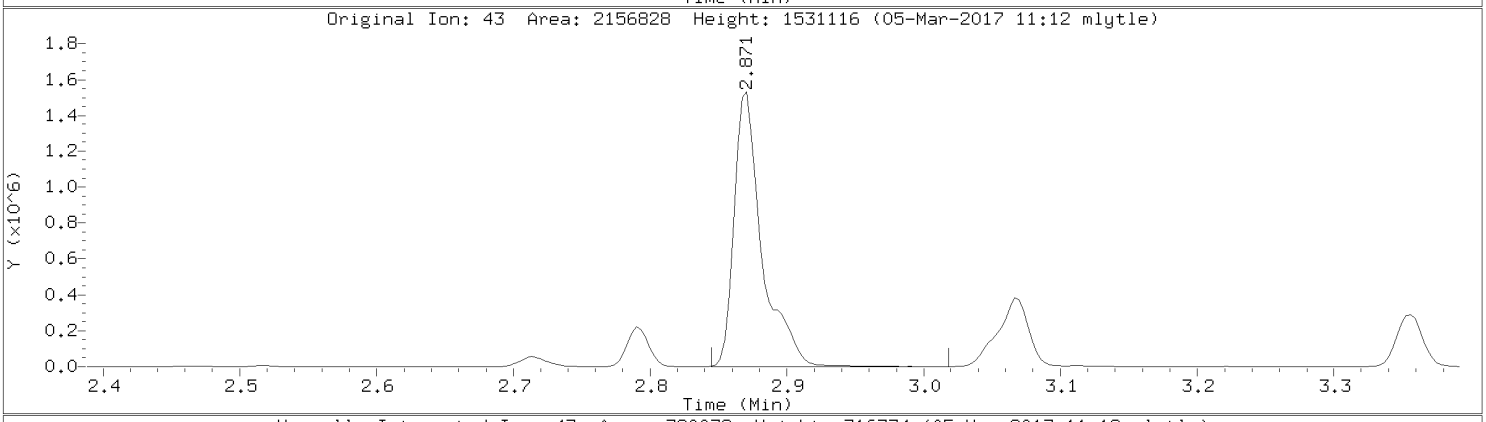


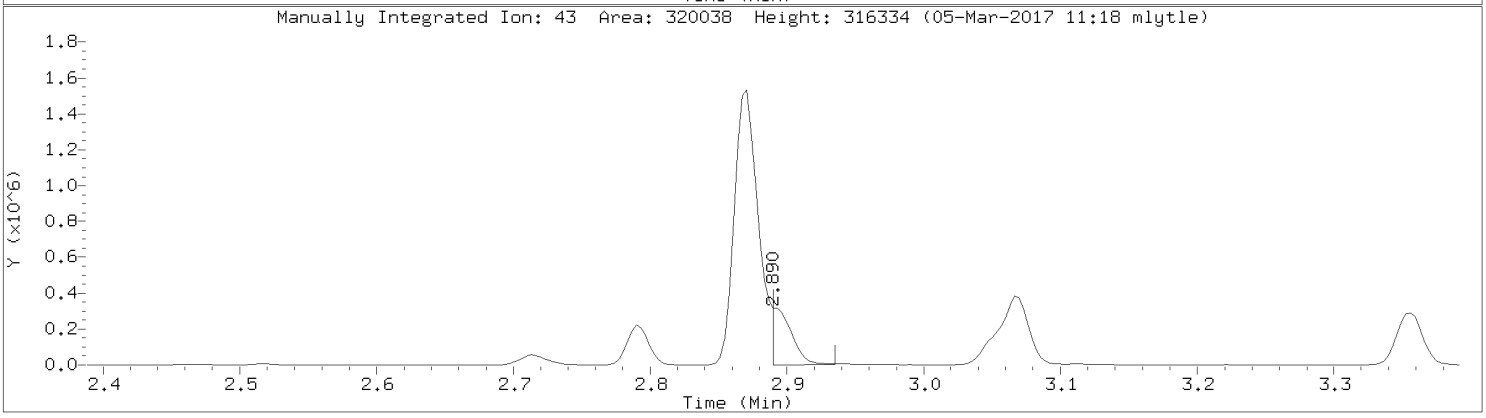
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

Compound: Isopropyl Alcohol
CAS Number: 67-63-0



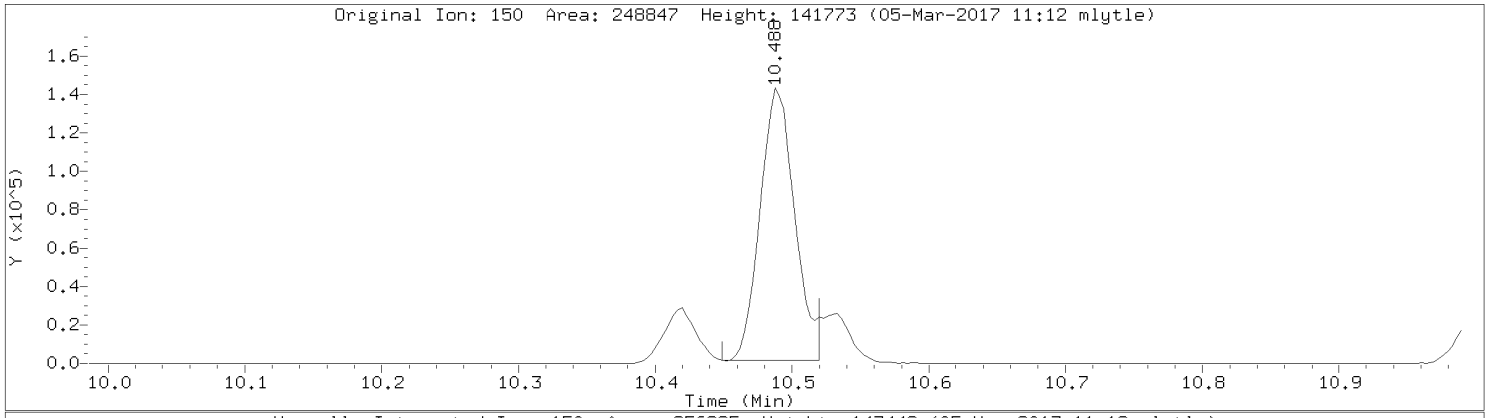


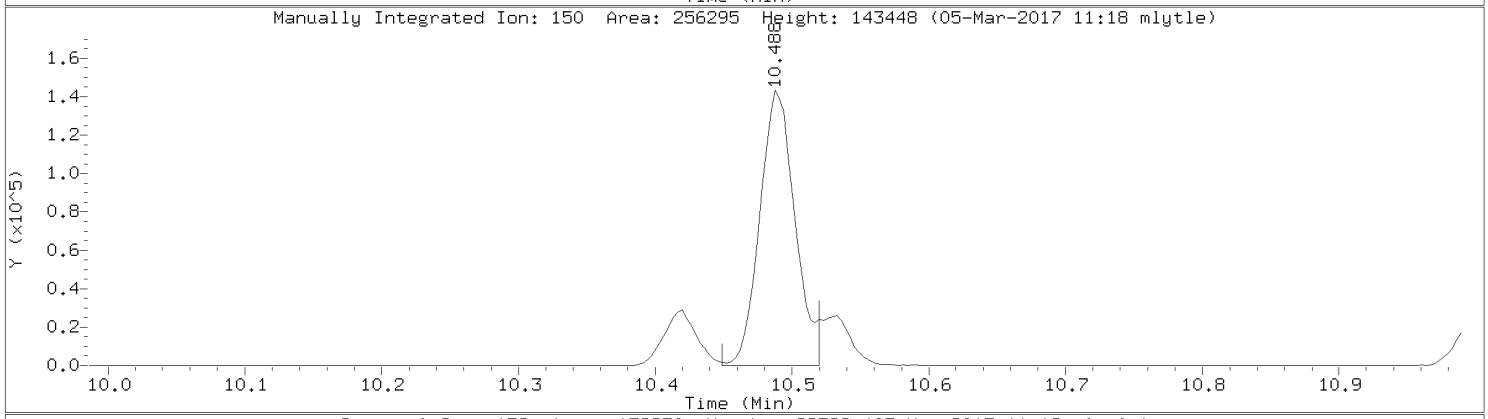


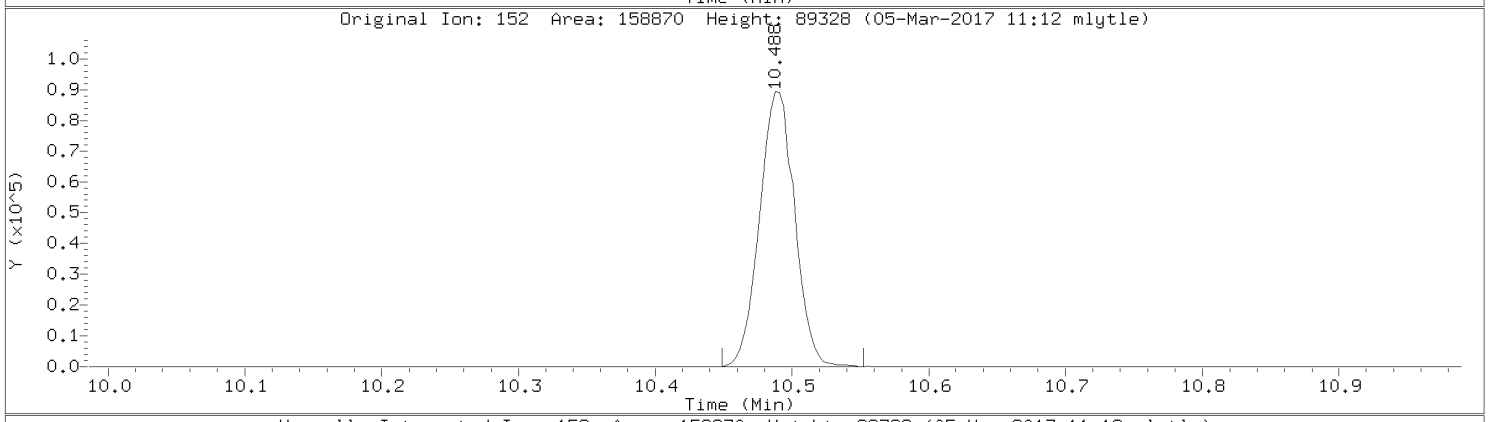


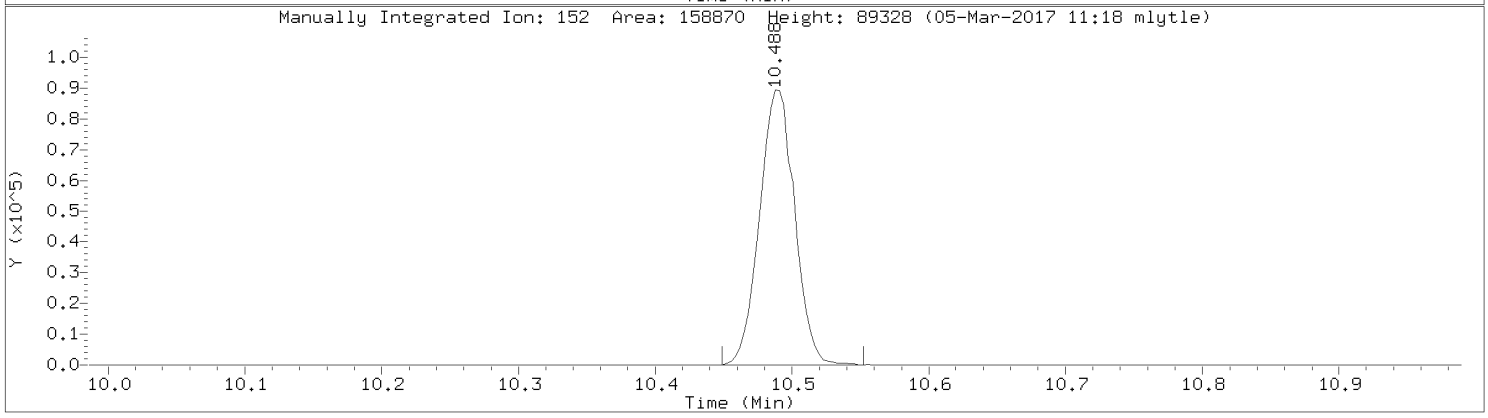
Data File: \\192.168.10.12\chem\10air7.i\030517.b/06405.D
Injection Date: 05-MAR-2017 10:57
Instrument: 10air7.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	1 Chloropentafluoroethane	10.00000	7.05429	0.05173	0.010	-29.45712	30.00000	Line	
	2 1,1-Difluoroethane	0.05863	0.05567	0.05567	0.010	-5.04712	30.00000	Aver	
	3 Chlorodifluoromethane	10.00000	9.76930	0.02745	0.010	-2.30697	30.00000	Line	
	4 Propylene	10.00000	8.76125	0.06538	0.010	-12.38750	30.00000	Line	
	5 Dichlorodifluoromethane	10.00000	9.63088	0.27372	0.010	-3.69123	30.00000	Line	
	6 Chloromethane	0.11490	0.10764	0.10764	0.010	-6.31741	30.00000	Aver	
	7 Dichlorotetrafluoroethane	0.27763	0.25037	0.25037	0.010	-9.81846	30.00000	Aver	
	8 Vinyl chloride	0.09925	0.09587	0.09587	0.010	-3.40987	30.00000	Aver	
	9 1,3-Butadiene	0.07229	0.07193	0.07193	0.010	-0.49391	30.00000	Aver	
	10 Bromomethane	0.09182	0.08683	0.08683	0.010	-5.43471	30.00000	Aver	
	11 Chloroethane	0.04564	0.04299	0.04299	0.010	-5.80737	30.00000	Aver	
	12 Ethanol	0.03674	0.03225	0.03225	0.005	-12.24301	30.00000	Aver	
	13 Vinyl Bromide	0.09511	0.09076	0.09076	0.010	-4.57065	30.00000	Aver	
	14 Isopentane	10.00000	9.18981	0.09267	0.010	-8.10186	30.00000	Line	
	15 Freon 123	10.00000	8.64887	0.09147	0.010	-13.51129	30.00000	Line	
	16 Trichlorofluoromethane	0.27416	0.24677	0.24677	0.010	-9.98958	30.00000	Aver	
	17 Acrolein	25.00000	23.92617	0.03559	0.010	-4.29532	30.00000	Quad	
	18 Acetone	0.15867	0.13861	0.13861	0.010	-12.63812	30.00000	Aver	
	19 Isopropyl Alcohol	0.16182	0.14651	0.14651	0.010	-9.46195	30.00000	Aver	
	20 1,1-Dichloroethene	0.15945	0.15047	0.15047	0.010	-5.62958	30.00000	Aver	
	21 Acrylonitrile	0.07332	0.07348	0.07348	0.010	0.21860	30.00000	Aver	
	22 Freon 113	0.20703	0.18759	0.18759	0.010	-9.39054	30.00000	Aver	
	23 Methyl Acetate	0.24157	0.22621	0.22621	0.010	-6.35846	30.00000	Aver	
	24 Tert Butyl Alcohol (TBA)	0.20802	0.19252	0.19252	0.010	-7.45164	30.00000	Aver	
	25 Methylene chloride	0.11199	0.10193	0.10193	0.010	-8.97670	30.00000	Aver	
	26 Allyl Chloride	25.00000	23.90743	0.03735	0.010	-4.37027	30.00000	Quad	
	27 Carbon Disulfide	0.21091	0.21909	0.21909	0.010	3.88191	30.00000	Aver	
	28 trans-1,2-dichloroethene	0.08946	0.09051	0.09051	0.010	1.16931	30.00000	Aver	
	29 Methyl Tert Butyl Ether	0.25503	0.23748	0.23748	0.010	-6.87894	30.00000	Aver	
	30 Vinyl Acetate	10.00000	9.48893	0.25313	0.010	-5.11068	30.00000	Quad	
	31 1,1-Dichloroethane	0.17426	0.16835	0.16835	0.010	-3.38901	30.00000	Aver	
$	32 Hexane-d14(S)	0.31815	0.31891	0.31891	0.010	0.23647	30.00000	Aver	
	33 Methyl Ethyl Ketone	10.00000	9.06476	0.04282	0.010	-9.35239	30.00000	Line	
	34 n-Hexane	0.15946	0.14559	0.14559	0.010	-8.69964	30.00000	Aver	(M)
	35 Di-isopropyl Ether	0.30926	0.29225	0.29225	0.010	-5.50078	30.00000	Aver	
	36 Ethyl Acetate	0.20523	0.19272	0.19272	0.010	-6.09667	30.00000	Aver	
	37 cis-1,2-Dichloroethene	0.09995	0.09983	0.09983	0.010	-0.12823	30.00000	Aver	
	38 Ethyl Tert-Butyl Ether	0.32381	0.32027	0.32027	0.010	-1.09056	30.00000	Aver	
	39 Chloroform	0.20717	0.21285	0.21285	0.010	2.74026	30.00000	Aver	
	40 Tetrahydrofuran	0.11074	0.10148	0.10148	0.010	-8.35586	30.00000	Aver	
	41 1,1,1-Trichloroethane	0.24372	0.24155	0.24155	0.010	-0.89106	30.00000	Aver	
	42 1,2-Dichloroethane	0.18489	0.17705	0.17705	0.010	-4.23784	30.00000	Aver	

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

			CCAL	MIN		MAX	CURVE	QC
COMPOUND	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	TYPE	FLAGS
43 Benzene	0.32251	0.31269	0.31269	0.010	-3.04410	30.00000	Aver	
44 Carbon tetrachloride	0.24358	0.25634	0.25634	0.010	5.24060	30.00000	Aver	
45 Cyclohexane	0.16145	0.15446	0.15446	0.010	-4.32820	30.00000	Aver	
46 Tert Amyl Methyl Ether	10.00000	8.98553	0.28397	0.010	-10.14467	30.00000	Line	
48 2,2,4-Trimethylpentane	0.49953	0.48061	0.48061	0.010	-3.78821	30.00000	Aver	
49 Heptane	0.18021	0.17226	0.17226	0.010	-4.40830	30.00000	Aver	
50 1,2-Dichloropropane	0.11682	0.11156	0.11156	0.010	-4.50083	30.00000	Aver	
51 Trichloroethene	0.16802	0.15911	0.15911	0.010	-5.30264	30.00000	Aver	
52 Methyl methacrylate	0.10928	0.10650	0.10650	0.010	-2.54268	30.00000	Aver	
53 1,4-Dioxane	0.07535	0.07206	0.07206	0.010	-4.36020	30.00000	Aver	
54 Bromodichloromethane	0.23808	0.23859	0.23859	0.010	0.21720	30.00000	Aver	
55 Methylcyclohexane	10.00000	9.49897	0.08637	0.010	-5.01028	30.00000	Quad	
56 Methyl Isobutyl Ketone	0.24597	0.23410	0.23410	0.010	-4.82607	30.00000	Aver	
57 cis-1,3-Dichloropropene	10.00000	9.28812	0.18627	0.010	-7.11882	30.00000	Line	
58 trans-1,3-Dichloropropene	10.00000	9.53732	0.17582	0.010	-4.62676	30.00000	Quad	
$ 59 Toluene-d8 (S)	0.89503	0.88073	0.88073	0.010	-1.59730	30.00000	Aver	
60 1,1,2-Trichloroethane	0.13412	0.12485	0.12485	0.010	-6.91000	30.00000	Aver	
61 Toluene	0.40388	0.38120	0.38120	0.010	-5.61726	30.00000	Aver	
62 Methyl Butyl Ketone	0.31584	0.33934	0.33934	0.010	7.44255	30.00000	Aver	
63 n-Octane	0.34204	0.33040	0.33040	0.010	-3.40392	30.00000	Aver	
64 Dibromochloromethane	10.00000	9.43571	0.37185	0.010	-5.64294	30.00000	Line	
65 1,2-Dibromoethane	0.32276	0.31989	0.31989	0.010	-0.88819	30.00000	Aver	
66 Tetrachloroethene	0.34724	0.32219	0.32219	0.010	-7.21468	30.00000	Aver	
68 Chlorobenzene	0.49598	0.46419	0.46419	0.010	-6.40956	30.00000	Aver	
69 Ethyl Benzene	0.73550	0.72193	0.72193	0.010	-1.84564	30.00000	Aver	
70 m&p-Xylene	0.57729	0.56732	0.56732	0.010	-1.72668	30.00000	Aver	
71 n-Nonane	0.29775	0.33880	0.33880	0.010	13.78613	30.00000	Aver	
72 Bromoform	10.00000	9.47972	0.36093	0.010	-5.20276	30.00000	Quad	
73 Styrene	10.00000	9.35381	0.45776	0.010	-6.46192	30.00000	Quad	
74 o-Xylene	0.58731	0.57578	0.57578	0.010	-1.96298	30.00000	Aver	
75 1,1,2,2-Tetrachloroethane	0.32362	0.35360	0.35360	0.010	9.26358	30.00000	Aver	
76 Isopropylbenzene	0.83122	0.81838	0.81838	0.010	-1.54387	30.00000	Aver	
77 N-Propylbenzene	10.00000	10.09018	0.94894	0.010	0.90184	30.00000	Line	
78 4-Ethyltoluene	10.00000	9.85625	0.84233	0.010	-1.43752	30.00000	Quad	
79 1,3,5-Trimethylbenzene	10.00000	10.15160	0.71515	0.010	1.51597	30.00000	Line	
80 n-Decane	10.00000	9.83266	0.25109	0.010	-1.67342	30.00000	Line	
81 Tert-Butyl Benzene	0.66403	0.73826	0.73826	0.010	11.17866	30.00000	Aver	
82 1,2,4-Trimethylbenzene	0.59403	0.67259	0.67259	0.010	13.22483	30.00000	Aver	
83 1,3-Dichlorobenzene	10.00000	10.25865	0.43306	0.010	2.58654	30.00000	Line	
84 Sec- Butylbenzene	0.83200	0.93632	0.93632	0.010	12.53775	30.00000	Aver	
$ 85 1,4-dichlorobenzene-d4 (S)	0.55087	0.63106	0.63106	0.010	14.55769	30.00000	Aver	(M)
86 Benzyl Chloride	10.00000	9.94028	0.44754	0.010	-0.59720	30.00000	Quad	(M)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.43090	0.43090	0.010	10.72958	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.08742	0.80127	0.010	0.87418	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.65116	0.65116	0.010	11.02901	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	9.77420	0.40146	0.010	-2.25802	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.38389	0.63315	0.010	3.83887	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.32083	0.16451	0.010	3.20830	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.56191	0.16126	0.010	-4.38095	30.00000	Quad	
94 Naphthalene	10.00000	9.26310	0.37304	0.010	-7.36904	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.16834	0.16834	0.010	-2.98910	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 5.72480
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Lab Smp Id: CCV
Inj Date : 04-MAR-2017 06:56
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 04-Mar-2017 07:14 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.944	2.944	(0.525)	77827	10.0000	7.05
2	1,1-Difluoroethane	65	3.018	3.018	(0.538)	83759	10.0000	9.50
3	Chlorodifluoromethane	67	3.028	3.028	(0.539)	41308	10.0000	9.77
4	Propylene	41	3.028	3.028	(0.539)	98379	10.0000	8.76
5	Dichlorodifluoromethane	85	3.060	3.060	(0.545)	411848	10.0000	9.63
6	Chloromethane	50	3.156	3.156	(0.562)	161953	10.0000	9.37
7	Dichlorotetrafluoroethane	85	3.166	3.166	(0.564)	376709	10.0000	9.02
8	Vinyl chloride	62	3.234	3.234	(0.576)	144246	10.0000	9.66
9	1,3-Butadiene	54	3.275	3.275	(0.584)	108227	10.0000	9.95
10	Bromomethane	94	3.414	3.414	(0.608)	130647	10.0000	9.46
11	Chloroethane	64	3.465	3.465	(0.617)	64683	10.0000	9.42
12	Ethanol	45	3.545	3.545	(0.632)	242585	50.0000	43.9
13	Vinyl Bromide	106	3.581	3.581	(0.638)	136561	10.0000	9.54
14	Isopentane	43	3.600	3.600	(0.641)	139439	10.0000	9.19
15	Freon 123	83	3.603	3.603	(0.642)	137632	10.0000	8.65
16	Trichlorofluoromethane	101	3.674	3.674	(0.655)	371295	10.0000	9.00
17	Acrolein	56	3.684	3.684	(0.656)	133867	25.0000	23.9
18	Acetone	43	3.722	3.722	(0.663)	1042800	50.0000	43.7
19	Isopropyl Alcohol	45	3.767	3.767	(0.671)	1102178	50.0000	45.3
20	1,1-Dichloroethene	61	3.909	3.909	(0.696)	226399	10.0000	9.44
21	Acrylonitrile	53	3.928	3.928	(0.700)	276382	25.0000	25.1
22	Freon 113	101	3.951	3.951	(0.704)	282249	10.0000	9.06
23	Methyl Acetate	43	3.960	3.960	(0.706)	340359	10.0000	9.36

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.957	(0.705)	724159	25.0000	23.1
	25 Methylene chloride	49	4.005	4.005	(0.714)	766863	50.0000	45.5
	26 Allyl Chloride	76	4.018	4.018	(0.716)	140500	25.0000	23.9
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	329653	10.0000	10.4
	28 trans-1,2-dichloroethene	96	4.275	4.275	(0.762)	136180	10.0000	10.1
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	893308	25.0000	23.3
	30 Vinyl Acetate	43	4.391	4.391	(0.782)	380868	10.0000	9.49
	31 1,1-Dichloroethane	63	4.414	4.414	(0.786)	253309	10.0000	9.66
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	479832	10.0000	10.0
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	64430	10.0000	9.06
	34 n-Hexane	57	4.584	4.584	(0.817)	219059	10.0000	9.13(M)
	35 Di-isopropyl Ether	45	4.606	4.606	(0.821)	439725	10.0000	9.45
	36 Ethyl Acetate	43	4.716	4.716	(0.840)	289971	10.0000	9.39
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	150200	10.0000	9.99
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	1204728	25.0000	24.7
	39 Chloroform	83	4.841	4.841	(0.863)	320254	10.0000	10.3
	40 Tetrahydrofuran	42	4.992	4.992	(0.889)	152693	10.0000	9.16
	41 1,1,1-Trichloroethane	97	5.233	5.233	(0.932)	363443	10.0000	9.91
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	266397	10.0000	9.58
	43 Benzene	78	5.468	5.468	(0.974)	470480	10.0000	9.70
	44 Carbon tetrachloride	117	5.484	5.484	(0.977)	385695	10.0000	10.5
	45 Cyclohexane	56	5.487	5.487	(0.978)	232400	10.0000	9.57
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	427267	10.0000	8.99
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1504620	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.028)	1807833	25.0000	24.1
	49 Heptane	43	5.893	5.893	(1.050)	259190	10.0000	9.56
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	167859	10.0000	9.55
	51 Trichloroethene	130	5.989	5.989	(1.067)	239399	10.0000	9.47
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	160249	10.0000	9.75
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	108428	10.0000	9.56
	54 Bromodichloromethane	83	6.085	6.085	(1.084)	358992	10.0000	10.0
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	129952	10.0000	9.50
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	880588	25.0000	23.8
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	280260	10.0000	9.29
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	264547	10.0000	9.54
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1325166	10.0000	9.84
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	187856	10.0000	9.31
	61 Toluene	91	7.153	7.153	(1.274)	573557	10.0000	9.44
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	861770	25.0000	26.9
	63 n-Octane	43	7.584	7.584	(0.877)	335624	10.0000	9.66
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	377732	10.0000	9.44
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	324949	10.0000	9.91
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	327281	10.0000	9.28
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1015806	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	471527	10.0000	9.36
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	733341	10.0000	9.82
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1152570	20.0000	19.7
	71 n-Nonane	43	9.468	9.468	(1.095)	344156	10.0000	11.4
	72 Bromoform	173	9.478	9.478	(1.096)	366636	10.0000	9.48
	73 Styrene	104	9.507	9.507	(1.100)	464994	10.0000	9.35
	74 o-Xylene	91	9.581	9.581	(1.108)	584879	10.0000	9.80
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	359191	10.0000	10.9
	76 Isopropylbenzene	105	10.159	10.159	(1.175)	831318	10.0000	9.85
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	963936	10.0000	10.1

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	855640	10.0000	9.86
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	726458	10.0000	10.2
80	n-Decane	57	11.378	11.378	(2.027)	377800	10.0000	9.83
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	749925	10.0000	11.1
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	683225	10.0000	11.3
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	439900	10.0000	10.3
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	951115	10.0000	11.3
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	641034	10.0000	11.5(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	454614	10.0000	9.94(M)
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	437710	10.0000	11.1
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	813938	10.0000	10.1
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	661455	10.0000	11.1
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.420)	407802	10.0000	9.77
91	N-Butylbenzene	91	12.458	12.458	(1.441)	643158	10.0000	10.4
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	167109	10.0000	10.3
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.623)	163806	10.0000	9.56
94	Naphthalene	128	14.156	14.156	(1.637)	378936	10.0000	9.26
95	Hexachlorobutadiene	225	14.391	14.391	(1.665)	170999	10.0000	9.70

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06302.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info:

Calibration Date: 03-MAR-2017
Calibration Time: 07:37
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

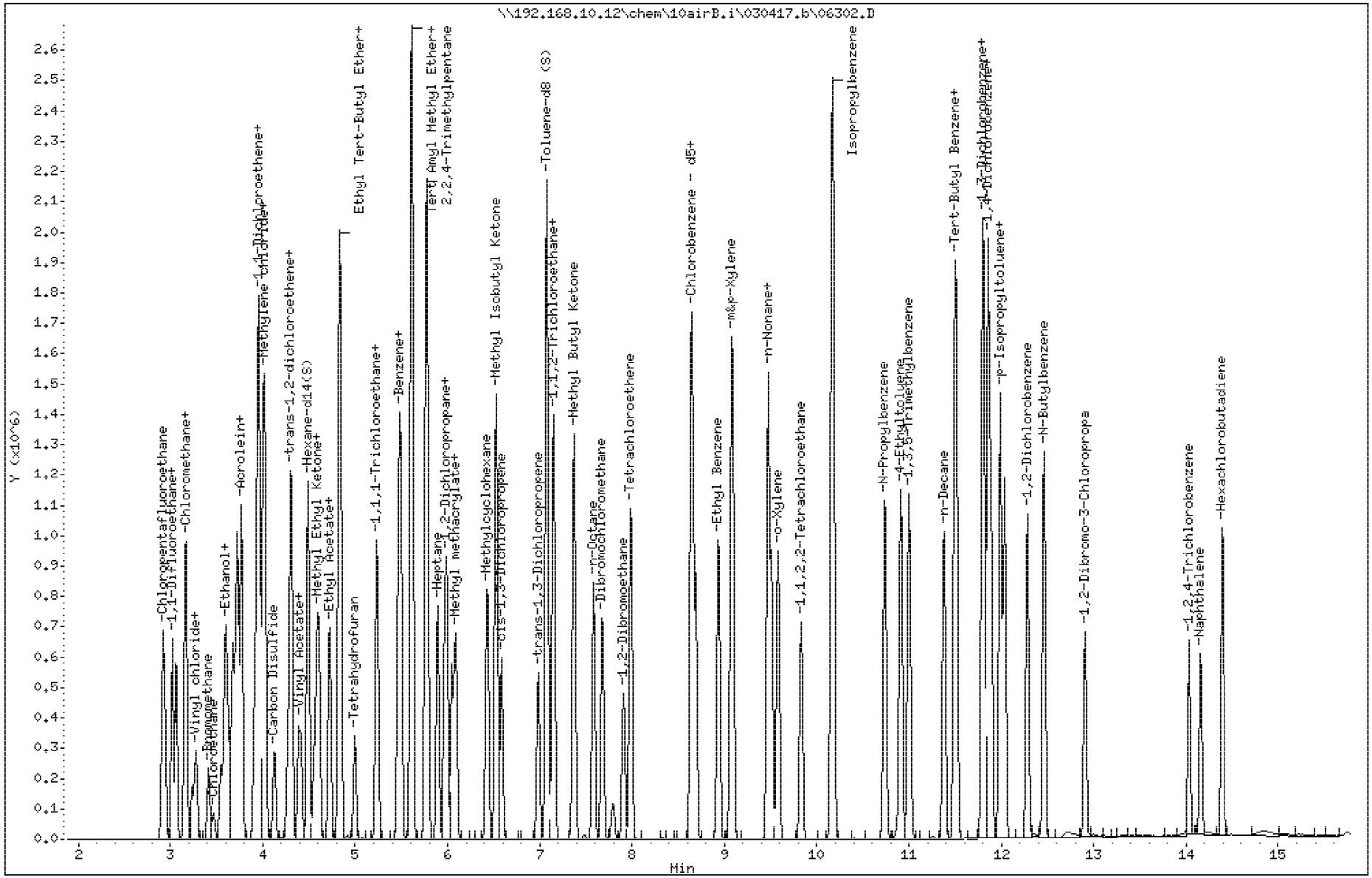
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1504620	6.40
67 Chlorobenzene - d	951026	570616	1331436	1015806	6.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

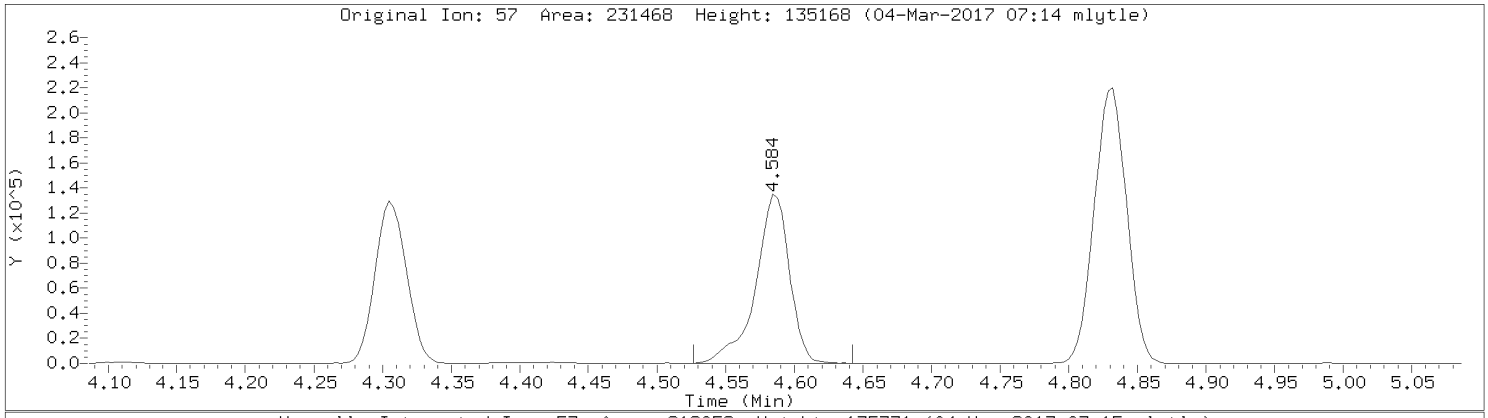
Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Date : 04-MAR-2017 06:56
Client ID:
Sample Info:

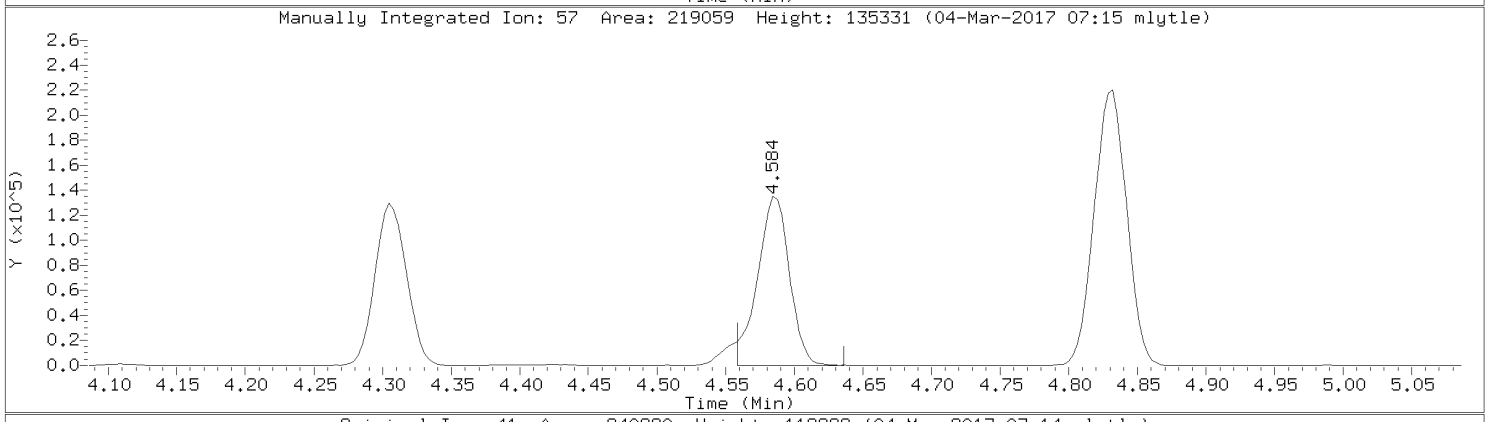
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

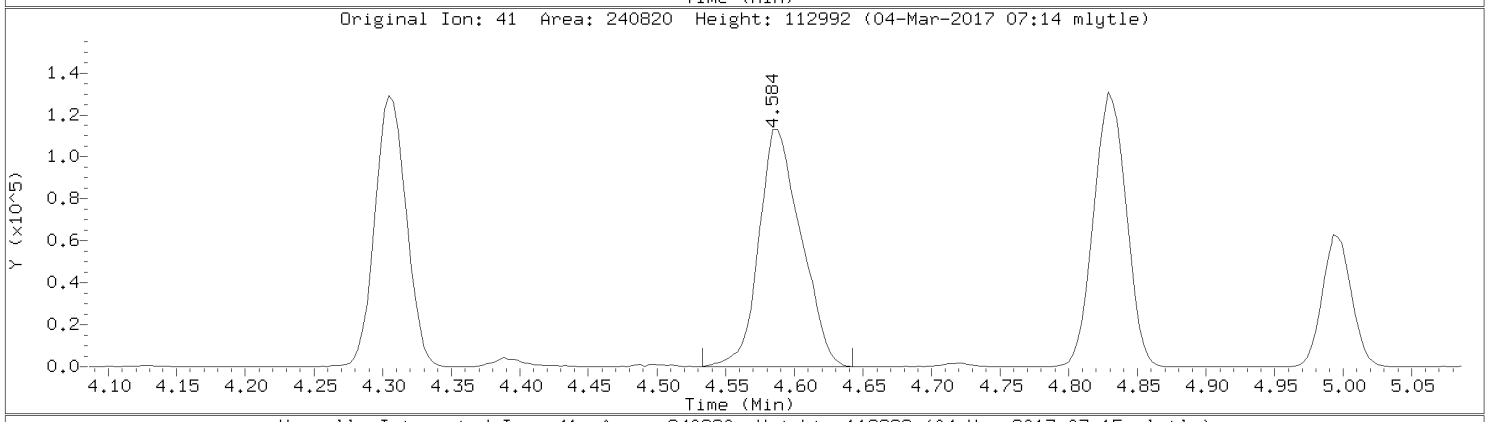


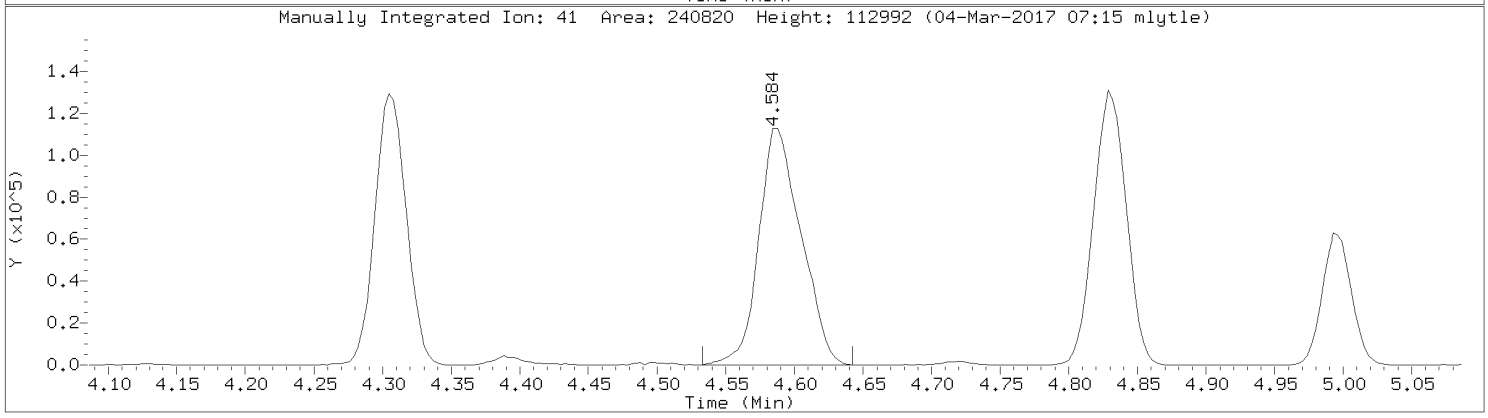
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

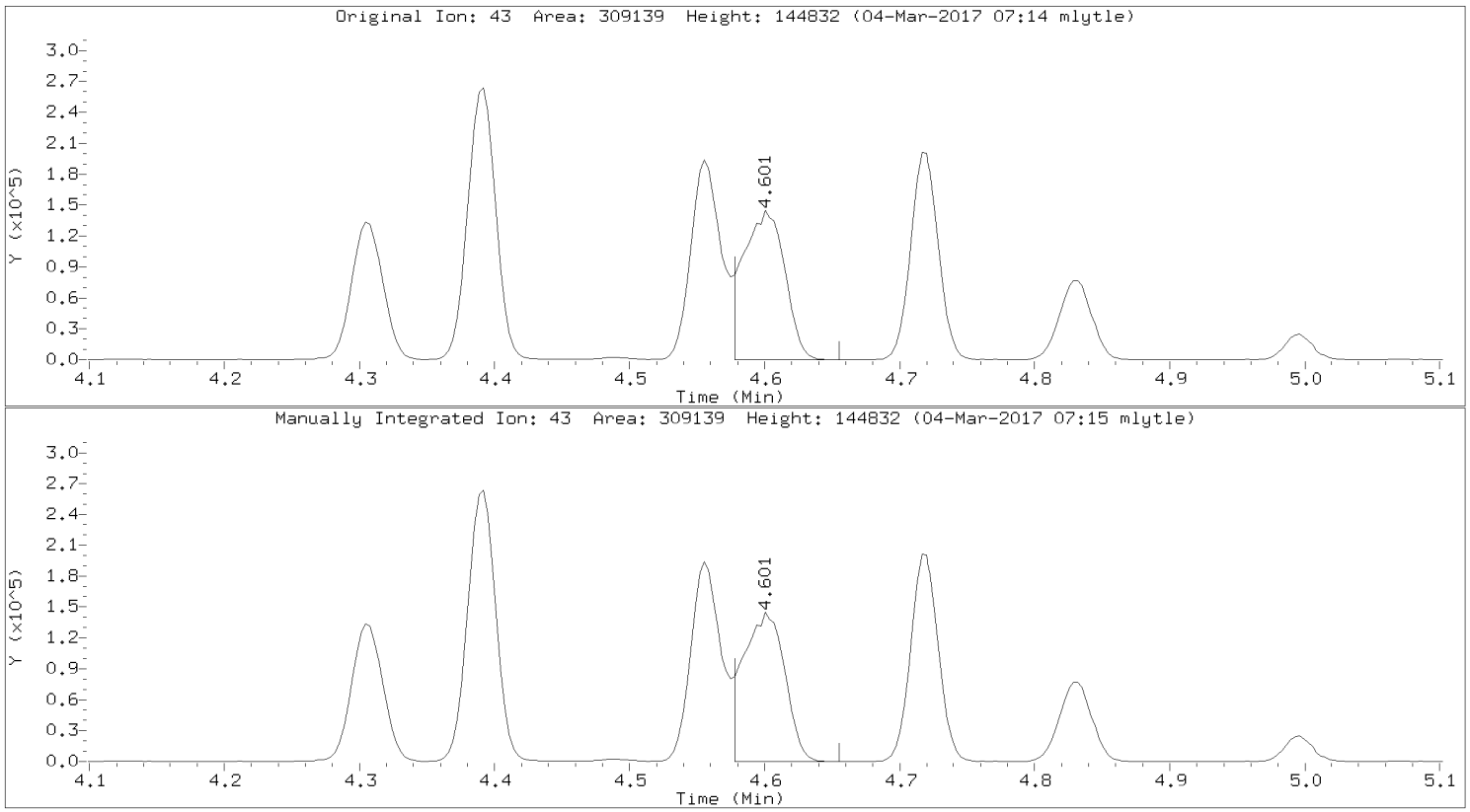






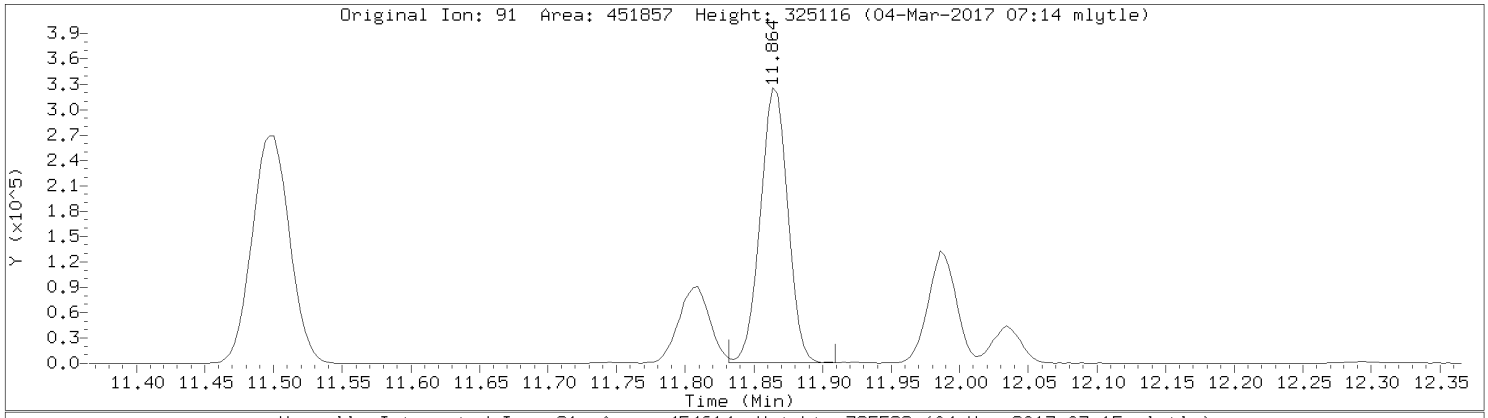


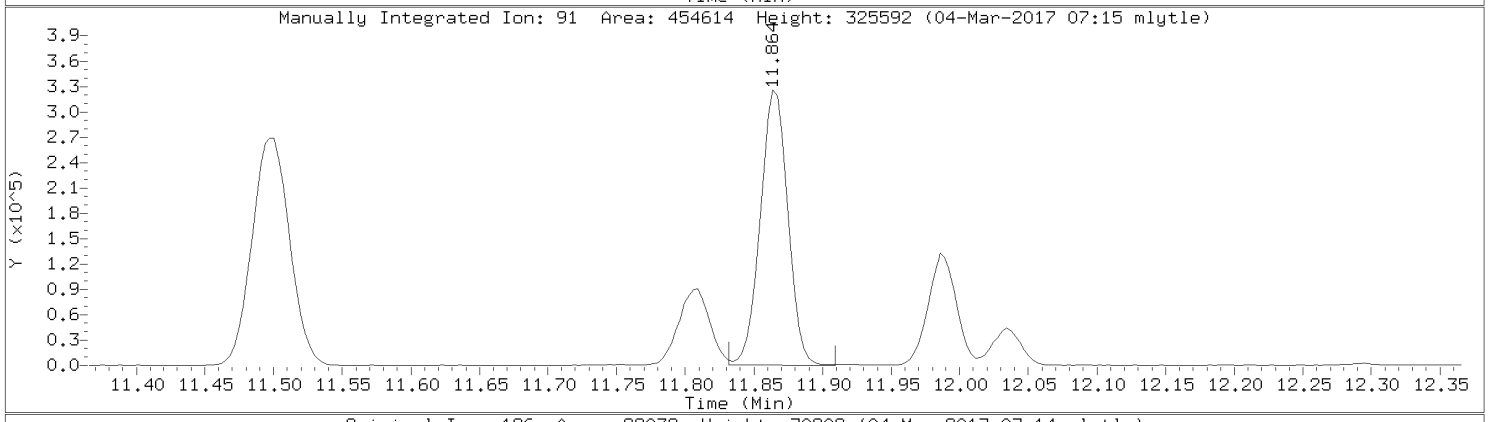
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

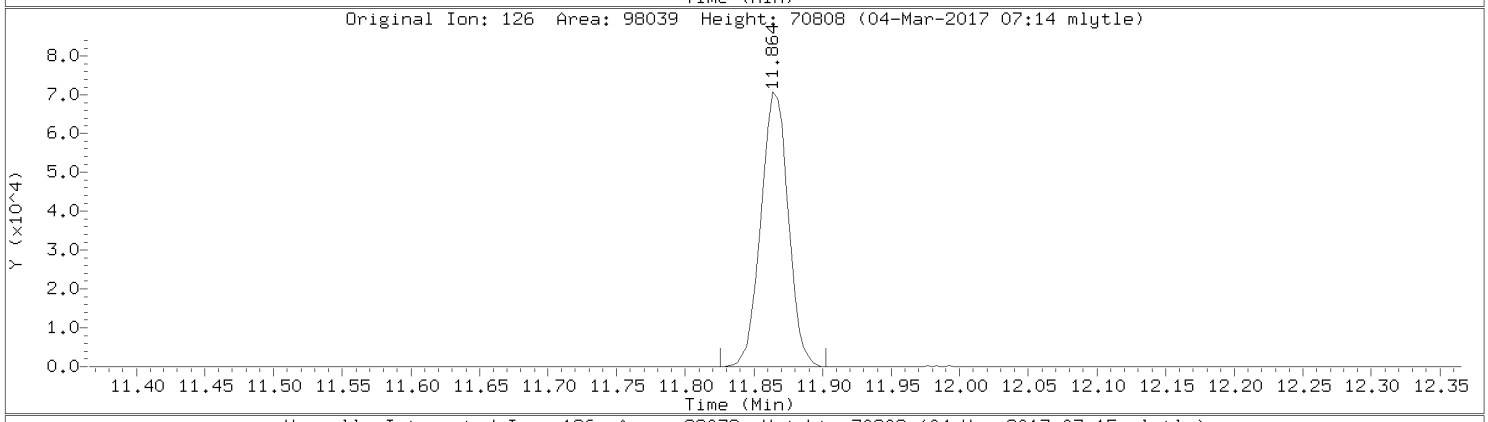


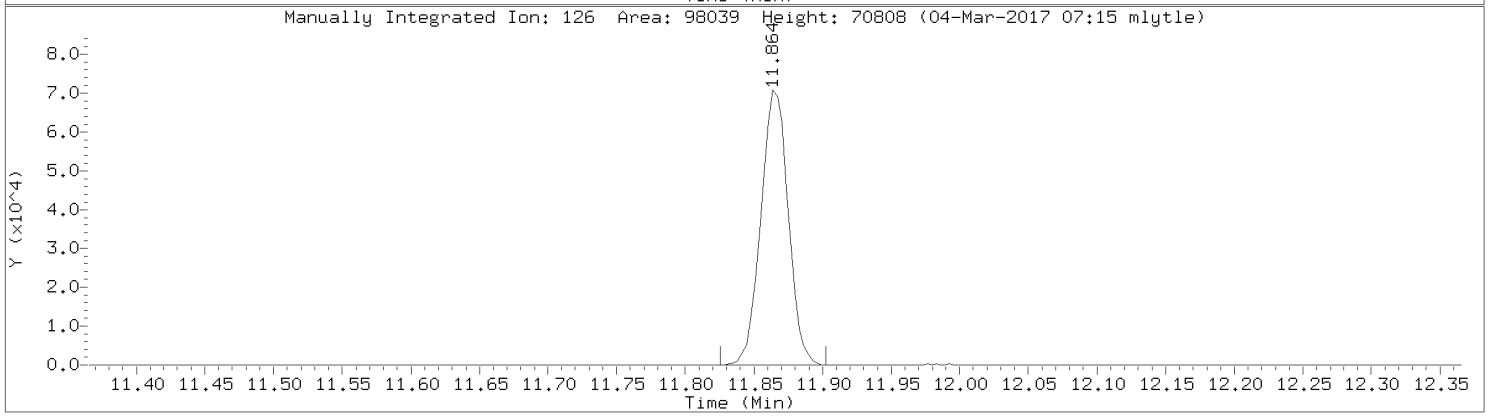
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: Benzyl Chloride
CAS Number: 100-44-7



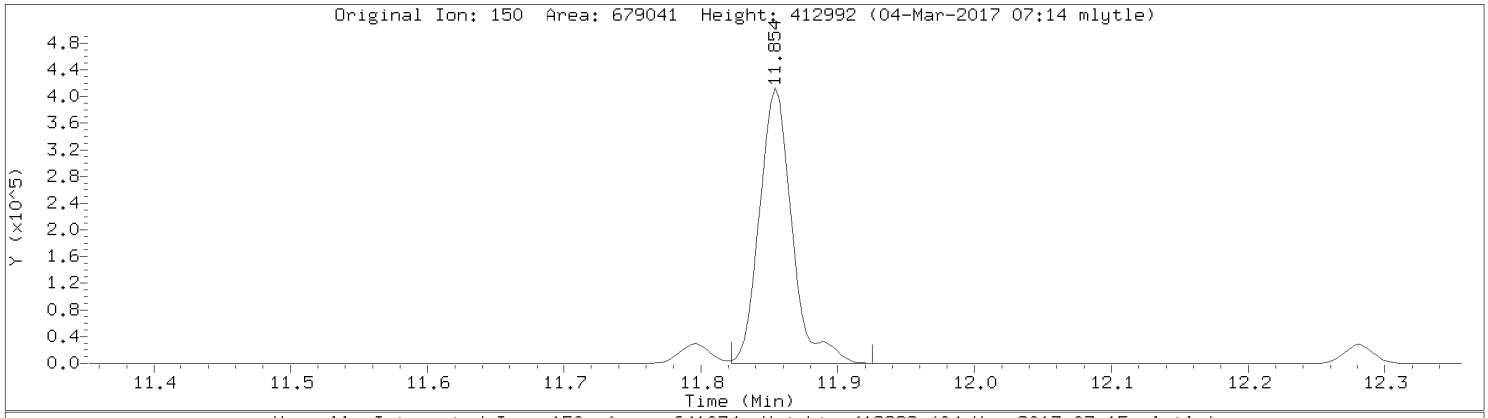


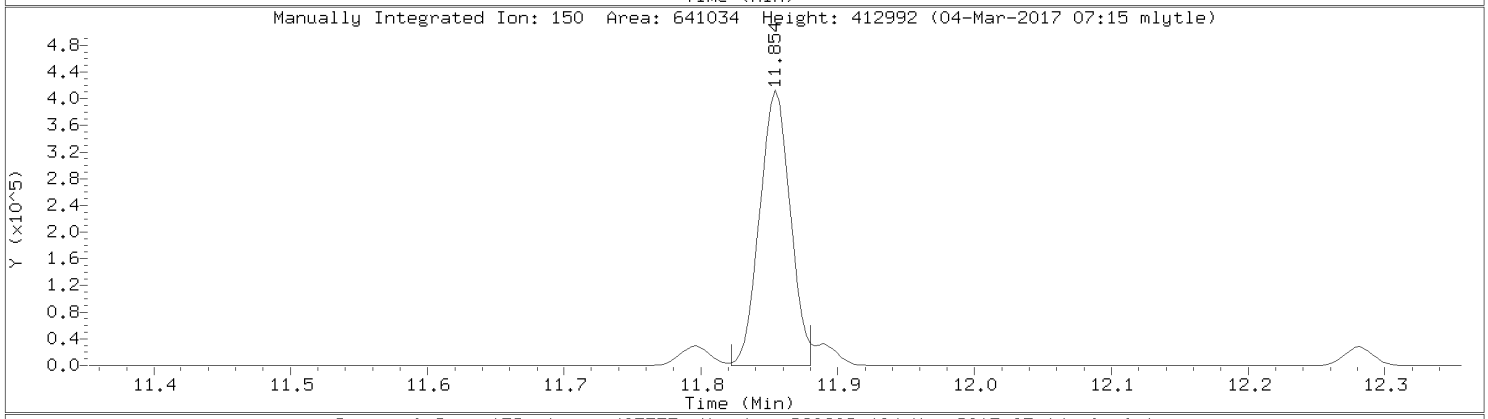


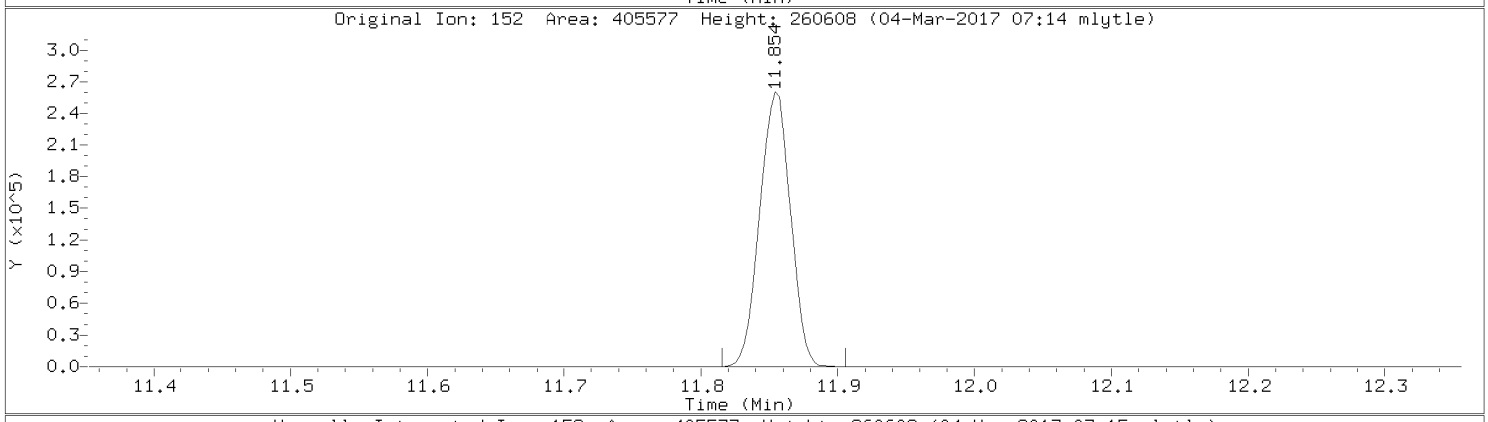


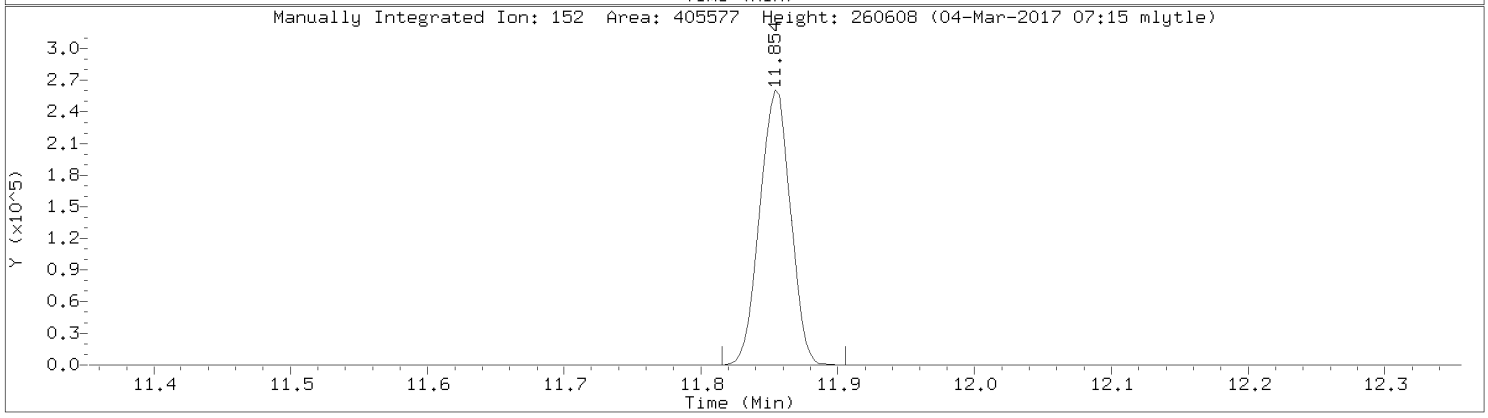
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	5.95094	0.04349	0.010	-40.49065	30.00000	Line		<-
	2 1,1-Difluoroethane	0.05863	0.05687	0.05687	0.010	-2.98870	30.00000	Aver		
	3 Chlorodifluoromethane	10.00000	9.89362	0.02780	0.010	-1.06375	30.00000	Line		
	4 Propylene	10.00000	8.79567	0.06562	0.010	-12.04329	30.00000	Line		
	5 Dichlorodifluoromethane	10.00000	9.81287	0.27885	0.010	-1.87128	30.00000	Line		
	6 Chloromethane	0.11490	0.10738	0.10738	0.010	-6.53830	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.27763	0.25581	0.25581	0.010	-7.85894	30.00000	Aver		
	8 Vinyl chloride	0.09925	0.09398	0.09398	0.010	-5.31650	30.00000	Aver		
	9 1,3-Butadiene	0.07229	0.07046	0.07046	0.010	-2.52096	30.00000	Aver		
	10 Bromomethane	0.09182	0.08632	0.08632	0.010	-5.99227	30.00000	Aver		
	11 Chloroethane	0.04564	0.04118	0.04118	0.010	-9.76728	30.00000	Aver		
	12 Ethanol	0.03674	0.03196	0.03196	0.005	-13.02125	30.00000	Aver		
	13 Vinyl Bromide	0.09511	0.08975	0.08975	0.010	-5.63138	30.00000	Aver		
	14 Isopentane	10.00000	9.68376	0.09758	0.010	-3.16239	30.00000	Line		
	15 Freon 123	10.00000	7.70672	0.08160	0.010	-22.93282	30.00000	Line		
	16 Trichlorofluoromethane	0.27416	0.25217	0.25217	0.010	-8.02013	30.00000	Aver		
	17 Acrolein	25.00000	23.50046	0.03494	0.010	-5.99815	30.00000	Quad		
	18 Acetone	0.15867	0.13573	0.13573	0.010	-14.45730	30.00000	Aver		
	19 Isopropyl Alcohol	0.16182	0.14772	0.14772	0.010	-8.71206	30.00000	Aver		
	20 1,1-Dichloroethene	0.15945	0.15154	0.15154	0.010	-4.95750	30.00000	Aver		
	21 Acrylonitrile	0.07332	0.07226	0.07226	0.010	-1.44396	30.00000	Aver		
	22 Freon 113	0.20703	0.19523	0.19523	0.010	-5.70109	30.00000	Aver		
	23 Methyl Acetate	0.24157	0.23131	0.23131	0.010	-4.24875	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.20802	0.20159	0.20159	0.010	-3.09060	30.00000	Aver		
	25 Methylene chloride	0.11199	0.10374	0.10374	0.010	-7.36392	30.00000	Aver		
	26 Allyl Chloride	25.00000	24.16612	0.03775	0.010	-3.33553	30.00000	Quad		
	27 Carbon Disulfide	0.21091	0.22369	0.22369	0.010	6.06122	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.08946	0.09296	0.09296	0.010	3.91051	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.25503	0.24398	0.24398	0.010	-4.33001	30.00000	Aver		
	30 Vinyl Acetate	10.00000	9.41597	0.25114	0.010	-5.84028	30.00000	Quad		
	31 1,1-Dichloroethane	0.17426	0.17031	0.17031	0.010	-2.26804	30.00000	Aver		
$	32 Hexane-d14(S)	0.31815	0.31358	0.31358	0.010	-1.43741	30.00000	Aver		
	33 Methyl Ethyl Ketone	10.00000	9.32700	0.04407	0.010	-6.73000	30.00000	Line		
	34 n-Hexane	0.15946	0.15440	0.15440	0.010	-3.17721	30.00000	Aver	(M)	
	35 Di-isopropyl Ether	0.30926	0.29677	0.29677	0.010	-4.03993	30.00000	Aver		
	36 Ethyl Acetate	0.20523	0.19699	0.19699	0.010	-4.01765	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.09995	0.10170	0.10170	0.010	1.74201	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.32381	0.29406	0.29406	0.010	-9.18557	30.00000	Aver		
	39 Chloroform	0.20717	0.19832	0.19832	0.010	-4.27336	30.00000	Aver		
	40 Tetrahydrofuran	0.11074	0.10312	0.10312	0.010	-6.88125	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.24372	0.24572	0.24572	0.010	0.81922	30.00000	Aver		
	42 1,2-Dichloroethane	0.18489	0.17932	0.17932	0.010	-3.01020	30.00000	Aver		

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	43 Benzene	0.32251	0.32110	0.32110	0.010	-0.43753	30.00000	Aver	
	44 Carbon tetrachloride	0.24358	0.26156	0.26156	0.010	7.38452	30.00000	Aver	
	45 Cyclohexane	0.16145	0.15550	0.15550	0.010	-3.68484	30.00000	Aver	
	46 Tert Amyl Methyl Ether	10.00000	9.42662	0.29744	0.010	-5.73375	30.00000	Line	
	48 2,2,4-Trimethylpentane	0.49953	0.48380	0.48380	0.010	-3.14877	30.00000	Aver	
	49 Heptane	0.18021	0.17224	0.17224	0.010	-4.41825	30.00000	Aver	
	50 1,2-Dichloropropane	0.11682	0.11251	0.11251	0.010	-3.68941	30.00000	Aver	
	51 Trichloroethene	0.16802	0.16280	0.16280	0.010	-3.10752	30.00000	Aver	
	52 Methyl methacrylate	0.10928	0.10602	0.10602	0.010	-2.98241	30.00000	Aver	
	53 1,4-Dioxane	0.07535	0.07299	0.07299	0.010	-3.12715	30.00000	Aver	
	54 Bromodichloromethane	0.23808	0.23664	0.23664	0.010	-0.60402	30.00000	Aver	
	55 Methylcyclohexane	10.00000	9.44647	0.08588	0.010	-5.53531	30.00000	Quad	
	56 Methyl Isobutyl Ketone	0.24597	0.23210	0.23210	0.010	-5.64128	30.00000	Aver	
	57 cis-1,3-Dichloropropene	10.00000	9.35091	0.18754	0.010	-6.49092	30.00000	Line	
	58 trans-1,3-Dichloropropene	10.00000	9.56218	0.17630	0.010	-4.37823	30.00000	Quad	
$	59 Toluene-d8 (S)	0.89503	0.83975	0.83975	0.010	-6.17637	30.00000	Aver	
	60 1,1,2-Trichloroethane	0.13412	0.12609	0.12609	0.010	-5.99098	30.00000	Aver	
	61 Toluene	0.40388	0.38649	0.38649	0.010	-4.30703	30.00000	Aver	
	62 Methyl Butyl Ketone	0.31584	0.33103	0.33103	0.010	4.80865	30.00000	Aver	
	63 n-Octane	0.34204	0.32826	0.32826	0.010	-4.03028	30.00000	Aver	
	64 Dibromochloromethane	10.00000	9.80152	0.38634	0.010	-1.98483	30.00000	Line	
	65 1,2-Dibromoethane	0.32276	0.33369	0.33369	0.010	3.38746	30.00000	Aver	
	66 Tetrachloroethene	0.34724	0.34451	0.34451	0.010	-0.78561	30.00000	Aver	
	68 Chlorobenzene	0.49598	0.49500	0.49500	0.010	-0.19771	30.00000	Aver	
	69 Ethyl Benzene	0.73550	0.76214	0.76214	0.010	3.62108	30.00000	Aver	
	70 m&p-Xylene	0.57729	0.59309	0.59309	0.010	2.73688	30.00000	Aver	
	71 n-Nonane	0.29775	0.34066	0.34066	0.010	14.41192	30.00000	Aver	
	72 Bromoform	10.00000	9.85964	0.37492	0.010	-1.40357	30.00000	Quad	
	73 Styrene	10.00000	9.73387	0.47575	0.010	-2.66130	30.00000	Quad	
	74 o-Xylene	0.58731	0.59877	0.59877	0.010	1.95106	30.00000	Aver	
	75 1,1,2,2-Tetrachloroethane	0.32362	0.35474	0.35474	0.010	9.61628	30.00000	Aver	
	76 Isopropylbenzene	0.83122	0.84183	0.84183	0.010	1.27728	30.00000	Aver	
	77 N-Propylbenzene	10.00000	10.16911	0.95638	0.010	1.69109	30.00000	Line	
	78 4-Ethyltoluene	10.00000	9.91522	0.84723	0.010	-0.84783	30.00000	Quad	
	79 1,3,5-Trimethylbenzene	10.00000	10.30251	0.72580	0.010	3.02509	30.00000	Line	
	80 n-Decane	10.00000	10.05606	0.25694	0.010	0.56057	30.00000	Line	
	81 Tert-Butyl Benzene	0.66403	0.74796	0.74796	0.010	12.64074	30.00000	Aver	
	82 1,2,4-Trimethylbenzene	0.59403	0.68375	0.68375	0.010	15.10319	30.00000	Aver	
	83 1,3-Dichlorobenzene	10.00000	10.46569	0.44179	0.010	4.65690	30.00000	Line	
	84 Sec- Butylbenzene	0.83200	0.95789	0.95789	0.010	15.13067	30.00000	Aver	
$	85 1,4-dichlorobenzene-d4 (S)	0.55087	0.62253	0.62253	0.010	13.00930	30.00000	Aver	(M)
	86 Benzyl Chloride	10.00000	10.09163	0.45457	0.010	0.91634	30.00000	Quad	

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.43815	0.43815	0.010	12.59229	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.32826	0.82040	0.010	3.28262	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.66671	0.66671	0.010	13.68067	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.01620	0.41117	0.010	0.16198	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.52355	0.64165	0.010	5.23555	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.30687	0.16428	0.010	3.06865	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.99354	0.16917	0.010	-0.06461	30.00000	Quad	
94 Naphthalene	10.00000	9.63840	0.38873	0.010	-3.61601	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.18326	0.18326	0.010	5.61095	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 5.60064
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Lab Smp Id: CCV
Inj Date : 05-MAR-2017 09:36
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info :
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 05-Mar-2017 09:58 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Chloropentafluoroethane	85	2.906	2.906	(0.518)	61853	10.0000	5.95
2	1,1-Difluoroethane	65	2.979	2.979	(0.531)	80881	10.0000	9.70
3	Chlorodifluoromethane	67	2.989	2.989	(0.533)	39537	10.0000	9.89
4	Propylene	41	2.989	2.989	(0.533)	93322	10.0000	8.80
5	Dichlorodifluoromethane	85	3.021	3.021	(0.539)	396554	10.0000	9.81
6	Chloromethane	50	3.124	3.124	(0.557)	152709	10.0000	9.35
7	Dichlorotetrafluoroethane	85	3.134	3.134	(0.559)	363783	10.0000	9.21
8	Vinyl chloride	62	3.201	3.201	(0.571)	133643	10.0000	9.47
9	1,3-Butadiene	54	3.246	3.246	(0.579)	100207	10.0000	9.75
10	Bromomethane	94	3.381	3.381	(0.603)	122753	10.0000	9.40
11	Chloroethane	64	3.443	3.443	(0.614)	58565	10.0000	9.02
12	Ethanol	45	3.542	3.542	(0.631)	227246	50.0000	43.5
13	Vinyl Bromide	106	3.561	3.561	(0.635)	127636	10.0000	9.44
14	Isopentane	43	3.578	3.578	(0.638)	138770	10.0000	9.68
15	Freon 123	83	3.587	3.587	(0.639)	116046	10.0000	7.71
16	Trichlorofluoromethane	101	3.655	3.655	(0.652)	358608	10.0000	9.20
17	Acrolein	56	3.674	3.674	(0.655)	124215	25.0000	23.5
18	Acetone	43	3.713	3.713	(0.662)	965079	50.0000	42.8
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	1050352	50.0000	45.6
20	1,1-Dichloroethene	61	3.896	3.896	(0.695)	215505	10.0000	9.50
21	Acrylonitrile	53	3.925	3.925	(0.700)	256889	25.0000	24.6
22	Freon 113	101	3.934	3.934	(0.701)	277630	10.0000	9.43
23	Methyl Acetate	43	3.951	3.951	(0.704)	328938	10.0000	9.58

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.951	3.951	(0.704)	716691	25.0000	24.2
	25 Methylene chloride	49	3.992	3.992	(0.712)	737643	50.0000	46.3
	26 Allyl Chloride	76	4.005	4.005	(0.714)	134194	25.0000	24.2
	27 Carbon Disulfide	76	4.108	4.108	(0.732)	318108	10.0000	10.6
	28 trans-1,2-dichloroethene	96	4.269	4.269	(0.761)	132198	10.0000	10.4
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.767)	867421	25.0000	23.9
	30 Vinyl Acetate	43	4.385	4.385	(0.782)	357151	10.0000	9.42
	31 1,1-Dichloroethane	63	4.407	4.407	(0.786)	242193	10.0000	9.77
$	32 Hexane-d14(S)	66	4.481	4.481	(0.799)	445940	10.0000	9.86
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.811)	62672	10.0000	9.33
	34 n-Hexane	57	4.578	4.578	(0.816)	219567	10.0000	9.68(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.820)	422031	10.0000	9.60
	36 Ethyl Acetate	43	4.713	4.713	(0.840)	280134	10.0000	9.60
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	144620	10.0000	10.2
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.860)	1045459	25.0000	22.7
	39 Chloroform	83	4.838	4.838	(0.862)	282025	10.0000	9.57
	40 Tetrahydrofuran	42	4.989	4.989	(0.889)	146640	10.0000	9.31
	41 1,1,1-Trichloroethane	97	5.227	5.227	(0.932)	349436	10.0000	10.1
	42 1,2-Dichloroethane	62	5.233	5.233	(0.933)	255013	10.0000	9.70
	43 Benzene	78	5.465	5.465	(0.974)	456629	10.0000	9.96
	44 Carbon tetrachloride	117	5.484	5.484	(0.978)	371966	10.0000	10.7
	45 Cyclohexane	56	5.484	5.484	(0.978)	221130	10.0000	9.63
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.999)	422988	10.0000	9.43
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	1422092	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.767	(1.028)	1720030	25.0000	24.2
	49 Heptane	43	5.889	5.889	(1.050)	244948	10.0000	9.56
	50 1,2-Dichloropropane	63	5.963	5.963	(1.063)	160000	10.0000	9.63
	51 Trichloroethene	130	5.986	5.986	(1.067)	231513	10.0000	9.69
	52 Methyl methacrylate	69	6.040	6.040	(1.077)	150776	10.0000	9.70
	53 1,4-Dioxane	88	6.063	6.063	(1.081)	103802	10.0000	9.69
	54 Bromodichloromethane	83	6.082	6.082	(1.084)	336521	10.0000	9.94
	55 Methylcyclohexane	98	6.430	6.430	(1.146)	122127	10.0000	9.45
	56 Methyl Isobutyl Ketone	43	6.526	6.526	(1.163)	825159	25.0000	23.6
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	266697	10.0000	9.35
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	250708	10.0000	9.56
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1194198	10.0000	9.38
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	179305	10.0000	9.40
	61 Toluene	91	7.153	7.153	(1.275)	549623	10.0000	9.57
	62 Methyl Butyl Ketone	43	7.368	7.368	(0.852)	807218	25.0000	26.2
	63 n-Octane	43	7.584	7.584	(0.877)	320189	10.0000	9.60
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	376841	10.0000	9.80
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	325489	10.0000	10.3
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	336043	10.0000	9.92
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	975415	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	482830	10.0000	9.98
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	743401	10.0000	10.4
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1157009	20.0000	20.5
	71 n-Nonane	43	9.468	9.468	(1.095)	332289	10.0000	11.4
	72 Bromoform	173	9.481	9.481	(1.097)	365698	10.0000	9.86
	73 Styrene	104	9.507	9.507	(1.100)	464058	10.0000	9.73
	74 o-Xylene	91	9.581	9.581	(1.108)	584045	10.0000	10.2
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	346022	10.0000	11.0
	76 Isopropylbenzene	105	10.162	10.162	(1.176)	821136	10.0000	10.1
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	932866	10.0000	10.2

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	826397	10.0000	9.92
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	707961	10.0000	10.3
80	n-Decane	57	11.378	11.378	(2.028)	365391	10.0000	10.1
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	729576	10.0000	11.3
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	666942	10.0000	11.5
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	430925	10.0000	10.5
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	934339	10.0000	11.5
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	607225	10.0000	11.3(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	443390	10.0000	10.1
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	427376	10.0000	11.3
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	800227	10.0000	10.3
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	650323	10.0000	11.4
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	401062	10.0000	10.0
91	N-Butylbenzene	91	12.461	12.461	(1.441)	625873	10.0000	10.5
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	160243	10.0000	10.3
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.623)	165012	10.0000	9.99
94	Naphthalene	128	14.169	14.169	(1.639)	379174	10.0000	9.64
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	178756	10.0000	10.6

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06402.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info:

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

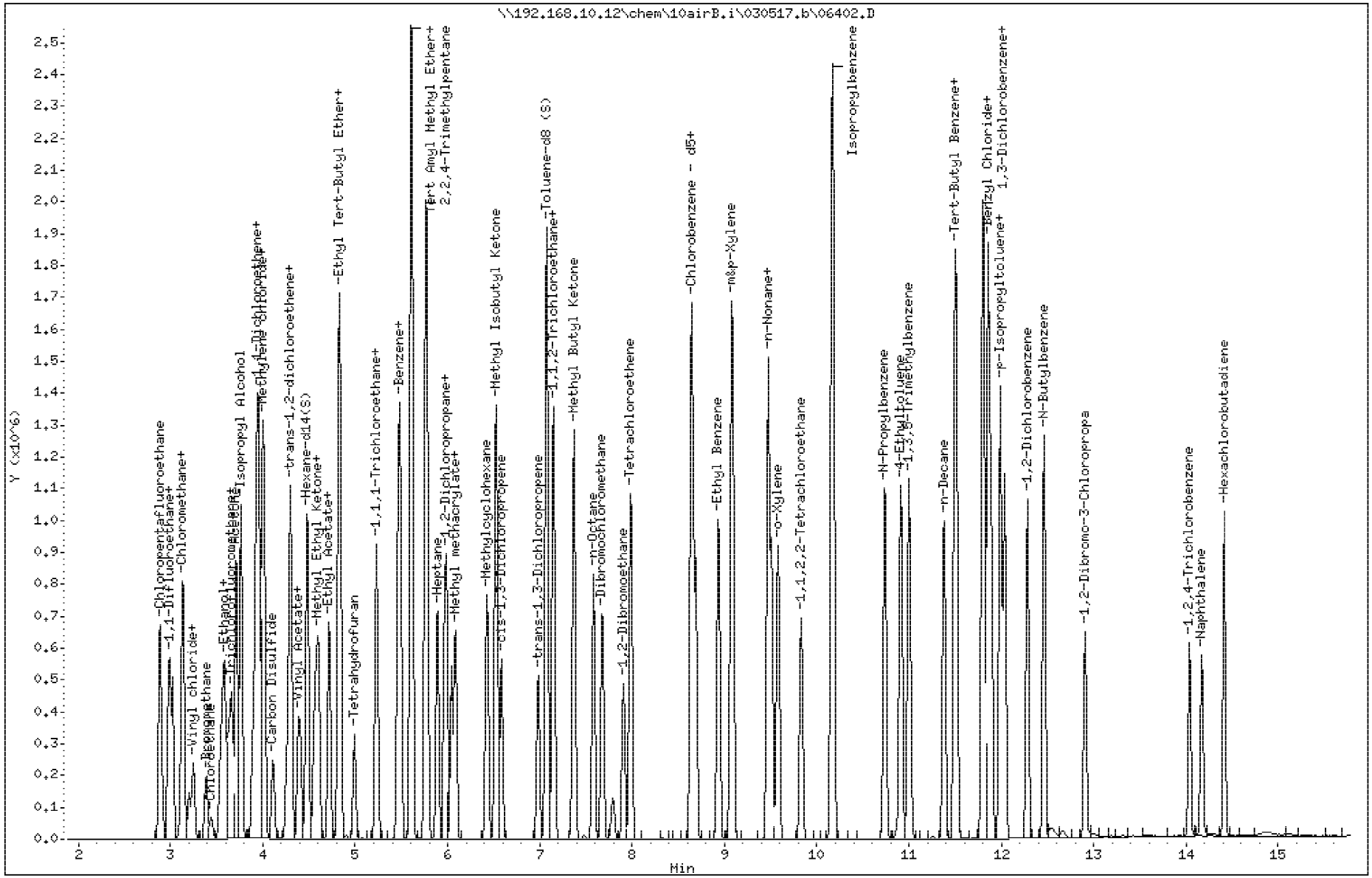
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1422092	0.56
67 Chlorobenzene - d	951026	570616	1331436	975415	2.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	-0.06
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

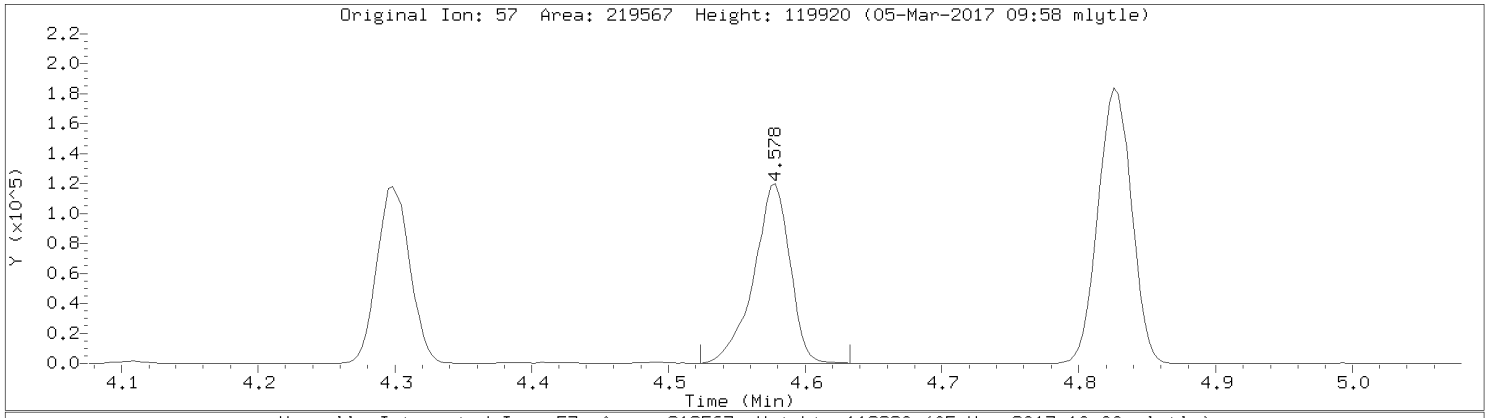
Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Date : 05-MAR-2017 09:36
Client ID:
Sample Info:

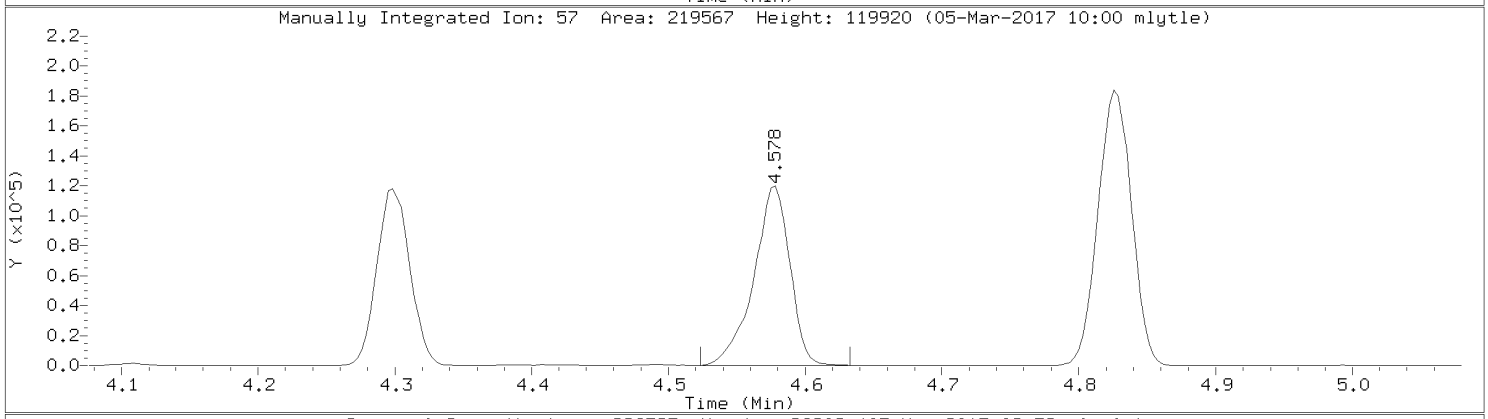
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

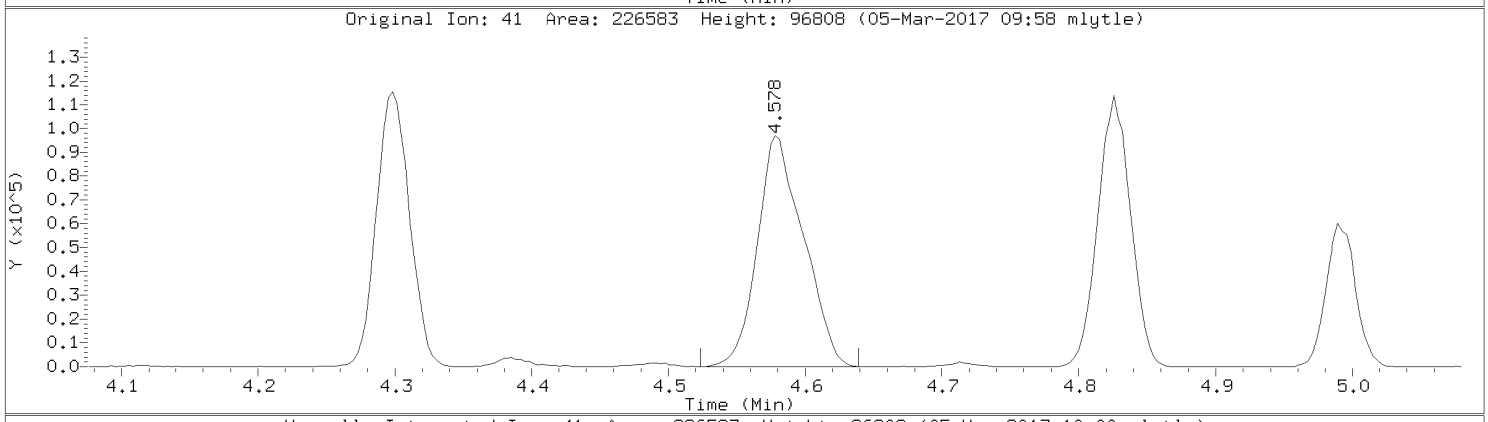


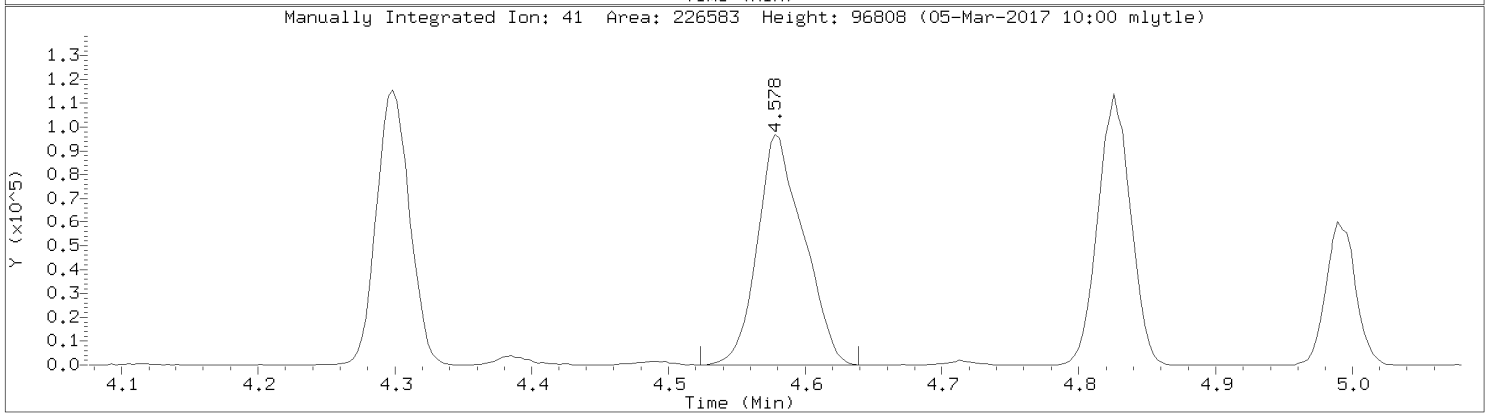
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

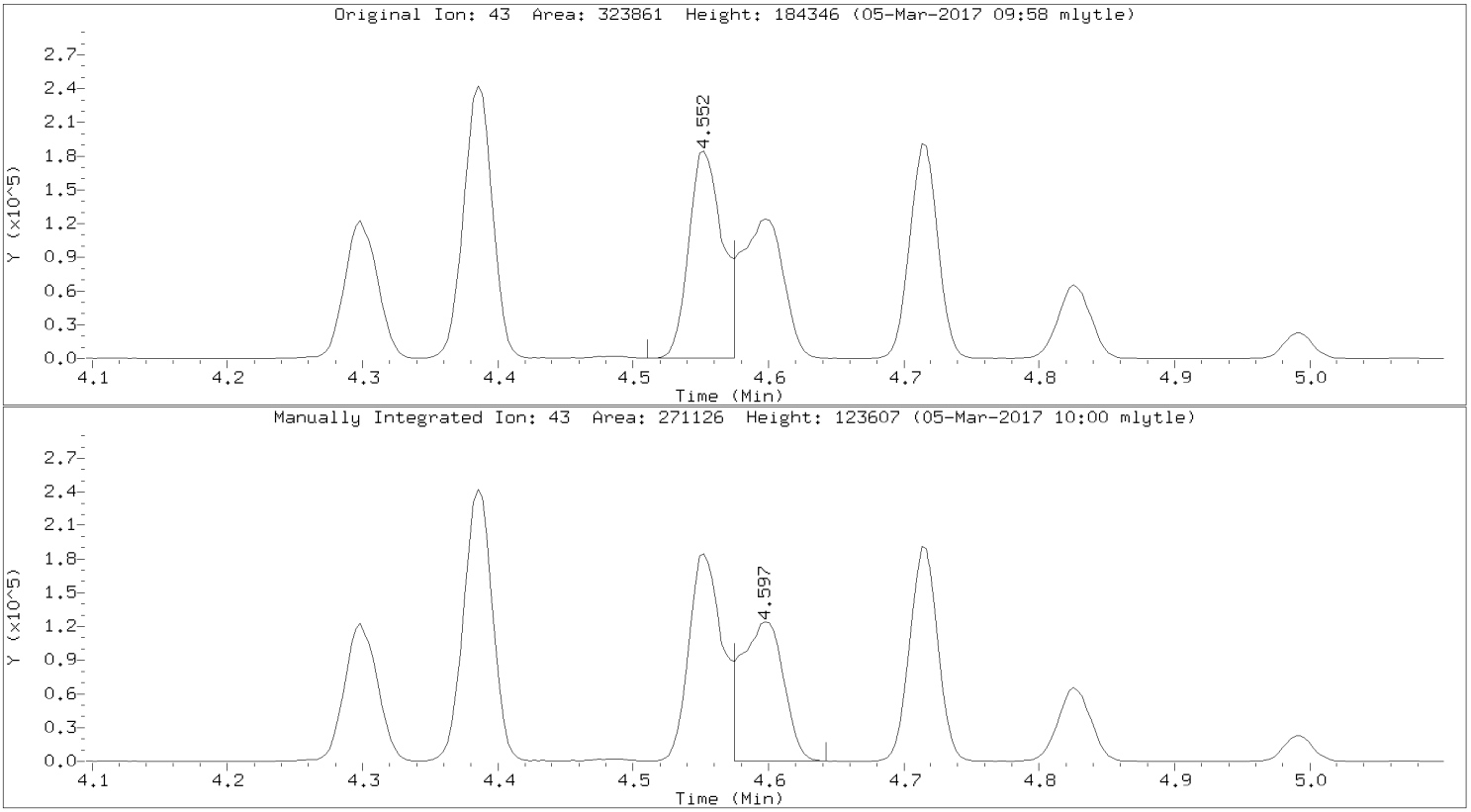






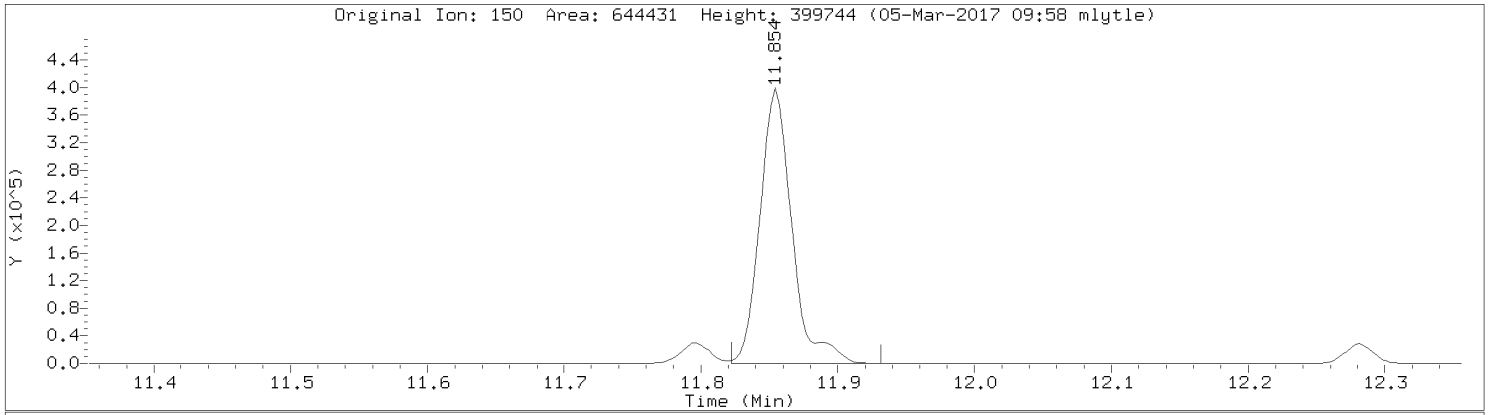


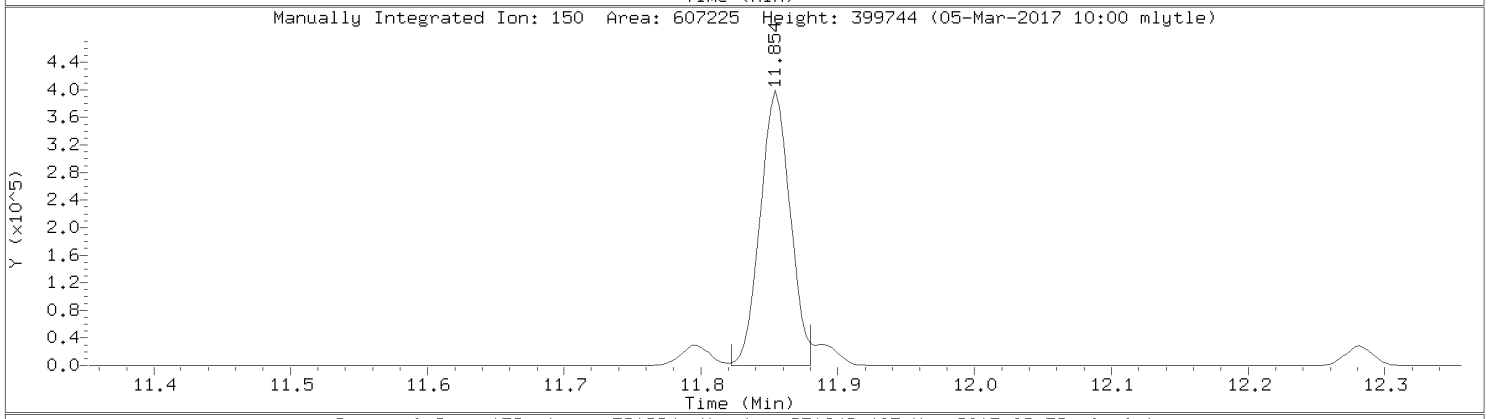
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

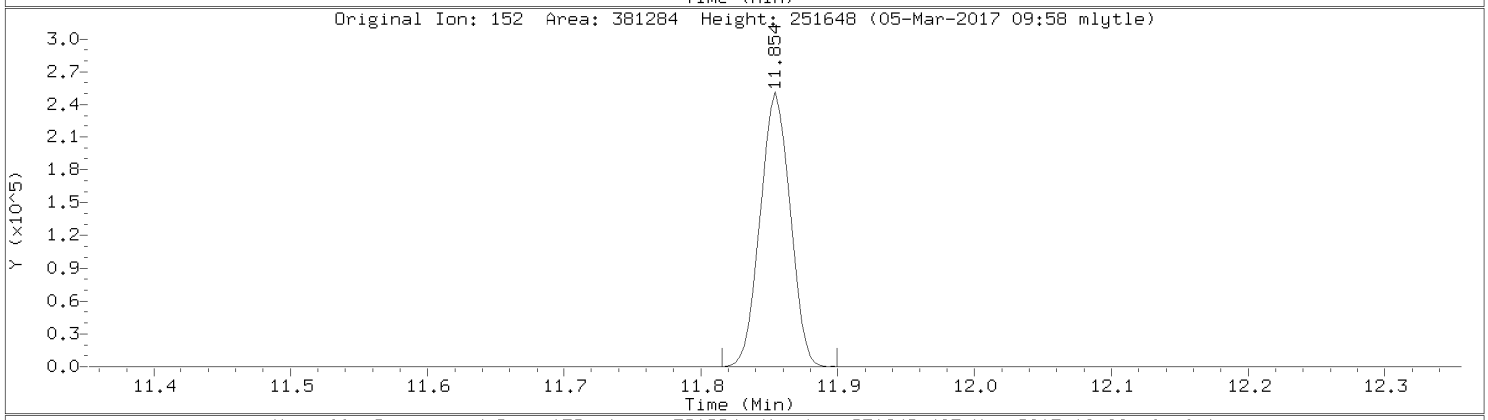


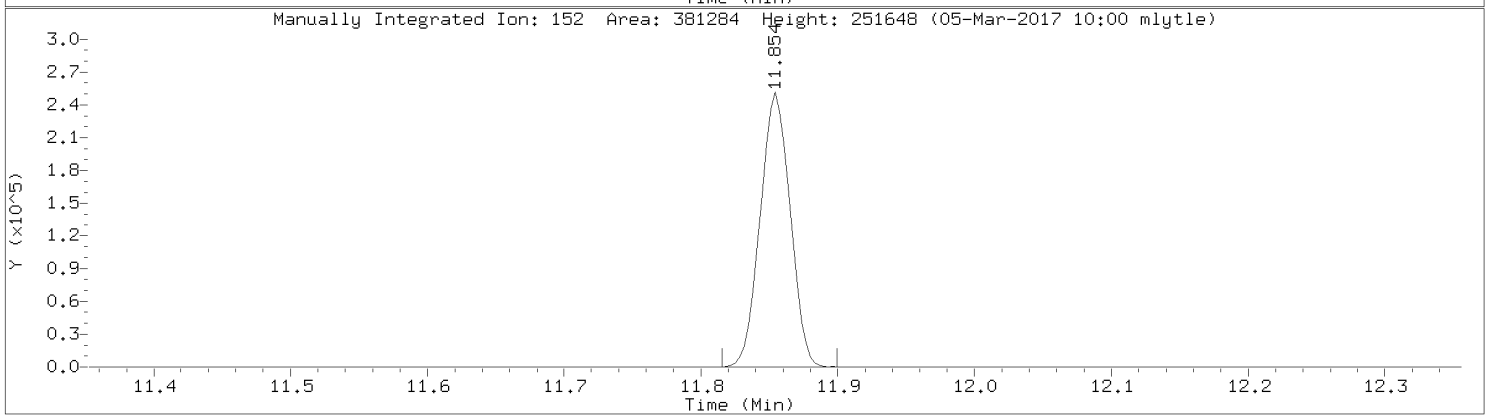
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10air7.i\030417.b\06301BFB.D

Date : 04-MAR-2017 06:29

Client ID: BFB

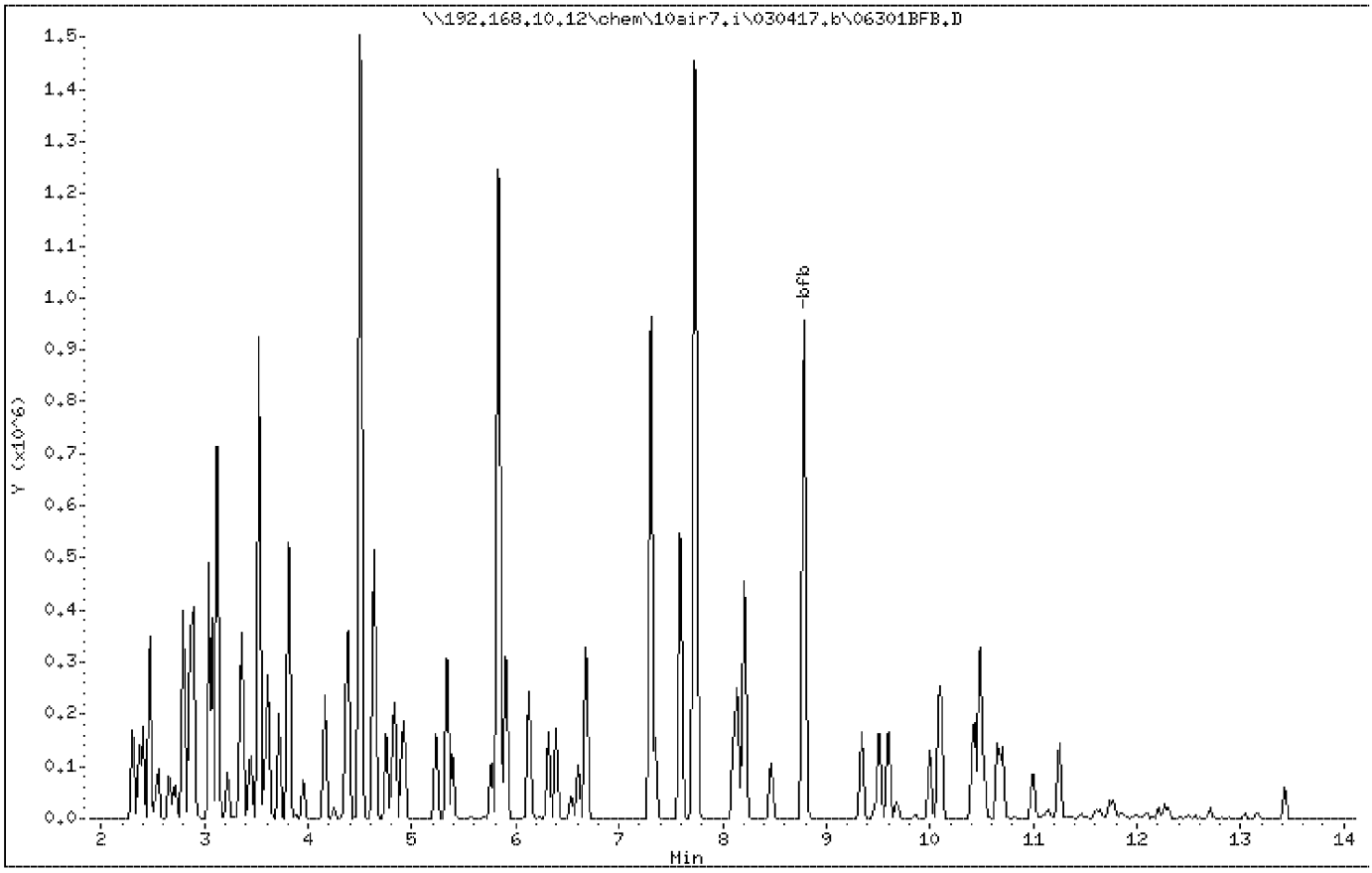
Instrument: 10air7.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030417.b\06301BFB.D

Date : 04-MAR-2017 06:29

Client ID: BFB

Instrument: 10air7.i

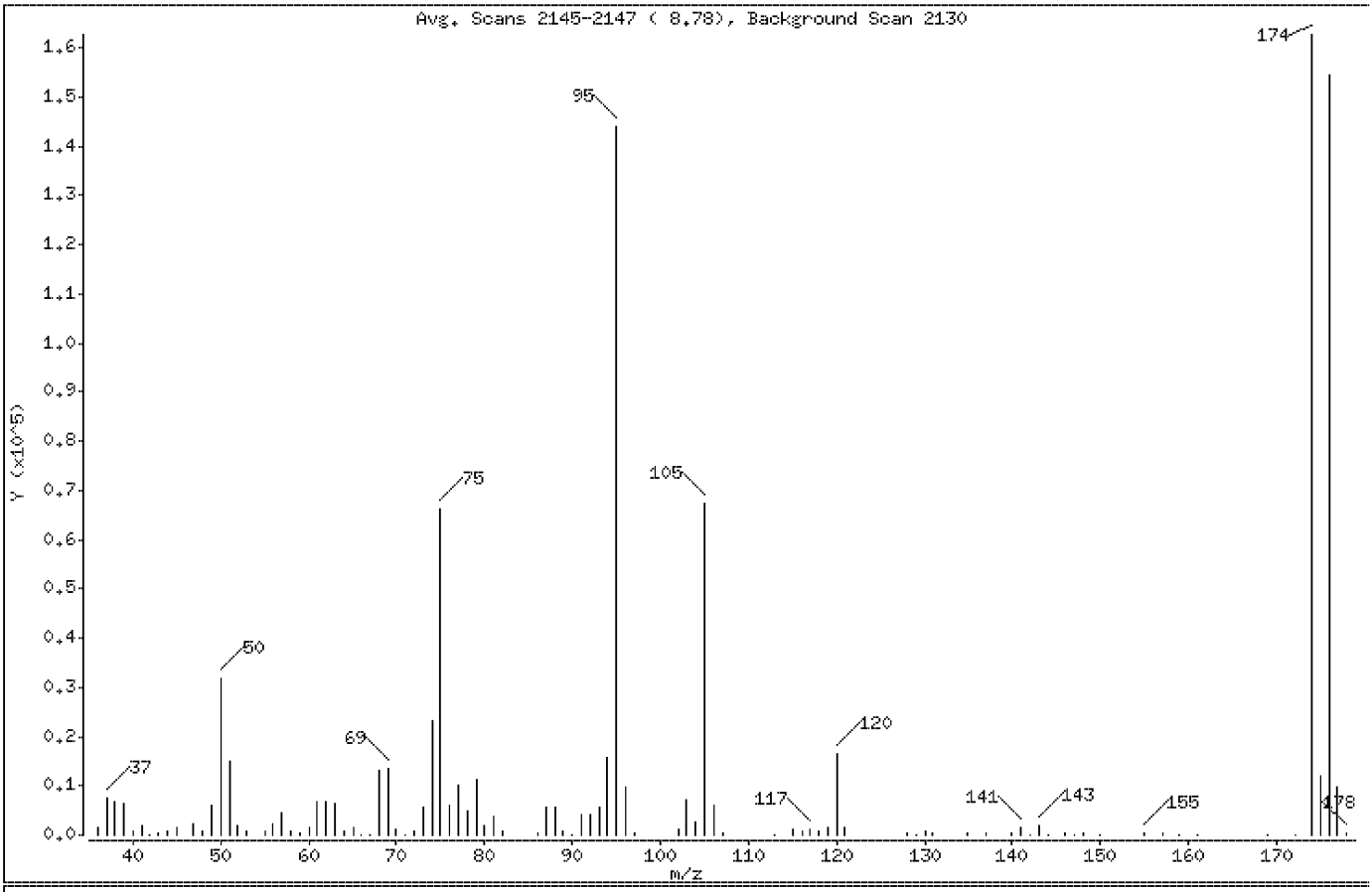
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.12
75	30.00 - 66.00% of mass 95	45.98
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	112.98
175	4.00 - 9.00% of mass 174	8.39 (7.43)
176	93.00 - 101.00% of mass 174	107.16 (94.84)
177	5.00 - 9.00% of mass 176	6.75 (6.30)

Date : 04-MAR-2017 06:29

Client ID: BFB Instrument: 10air7.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06301BFB.D
Spectrum: Avg. Scans 2145-2147 (8.78), Background Scan 2130
Location of Maximum: 174.00
Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1422	63.00	6509	91.00	4155	135.00	208
37.00	7549	64.00	623	92.00	4012	137.00	199
38.00	6864	65.00	1667	93.00	5440	140.00	190
39.00	6230	66.00	100	94.00	15587	141.00	1534
40.00	599	67.00	155	95.00	143936	142.00	110
41.00	1996	68.00	13223	96.00	9743	143.00	1821
42.00	92	69.00	13318	97.00	393	144.00	83
43.00	423	70.00	980	102.00	1042	146.00	323
44.00	929	71.00	100	103.00	7242	147.00	91
45.00	1391	72.00	771	104.00	2745	148.00	366
47.00	2179	73.00	5695	105.00	67408	150.00	112
48.00	827	74.00	23088	106.00	6012	155.00	384
49.00	6120	75.00	66184	107.00	338	157.00	287
50.00	31840	76.00	5991	113.00	91	159.00	88
51.00	15092	77.00	10266	115.00	1138	161.00	131
52.00	1854	78.00	4952	116.00	806	169.00	121
53.00	851	79.00	11369	117.00	1192	172.00	146
55.00	578	80.00	1705	118.00	680	174.00	162624
56.00	2320	81.00	3873	119.00	1329	175.00	12079
57.00	4463	82.00	863	120.00	16416	176.00	154240
58.00	668	86.00	225	121.00	1640	177.00	9717
59.00	460	87.00	5789	128.00	551	178.00	226
60.00	1322	88.00	5588	129.00	88		
61.00	6572	89.00	804	130.00	640		
62.00	6767	90.00	120	131.00	236		

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06401BFB.D

Date : 05-MAR-2017 09:07

Client ID: BFB

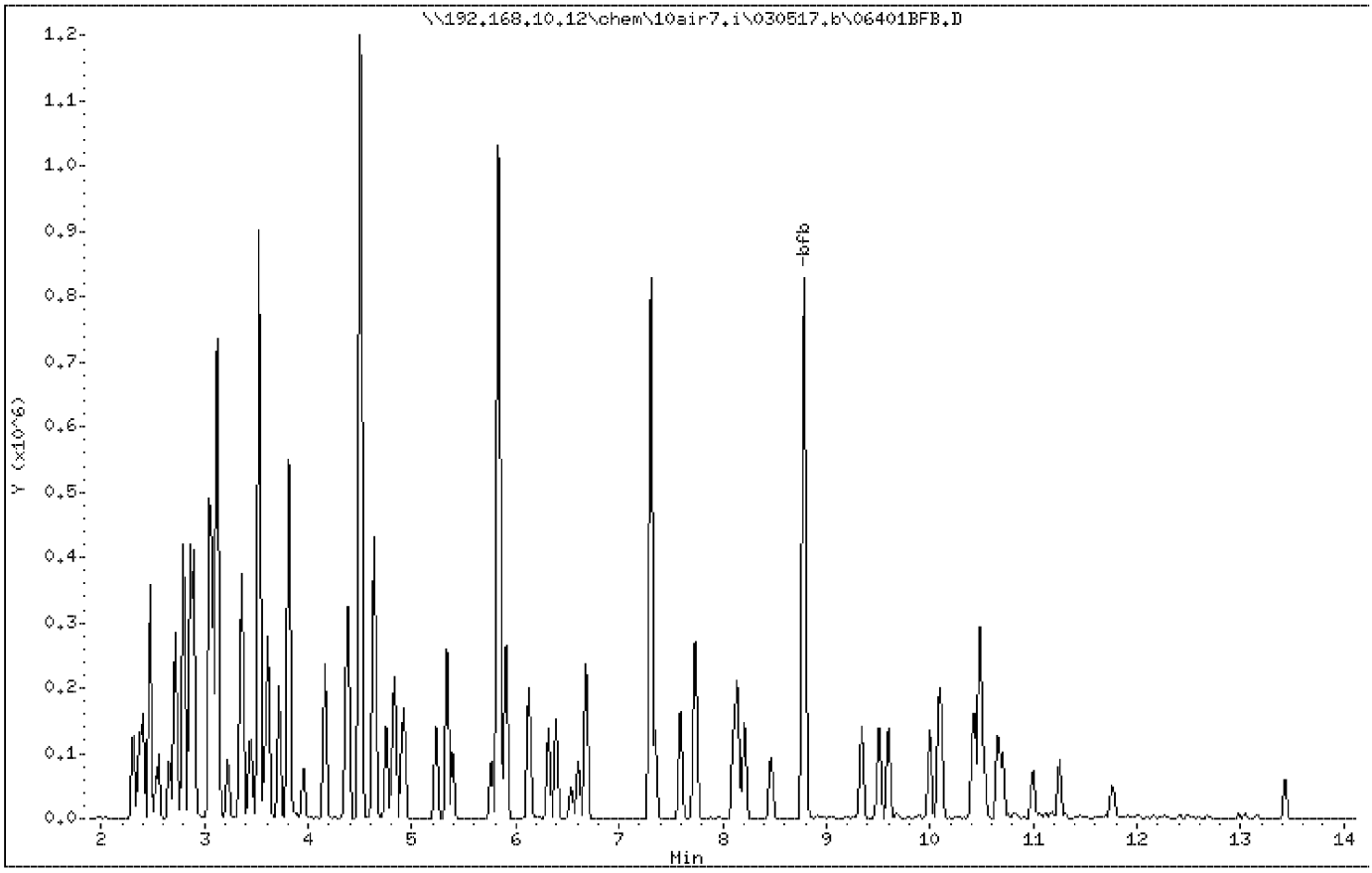
Instrument: 10air7.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10air7.i\030517.b\06401BFB.D

Date : 05-MAR-2017 09:07

Client ID: BFB

Instrument: 10air7.i

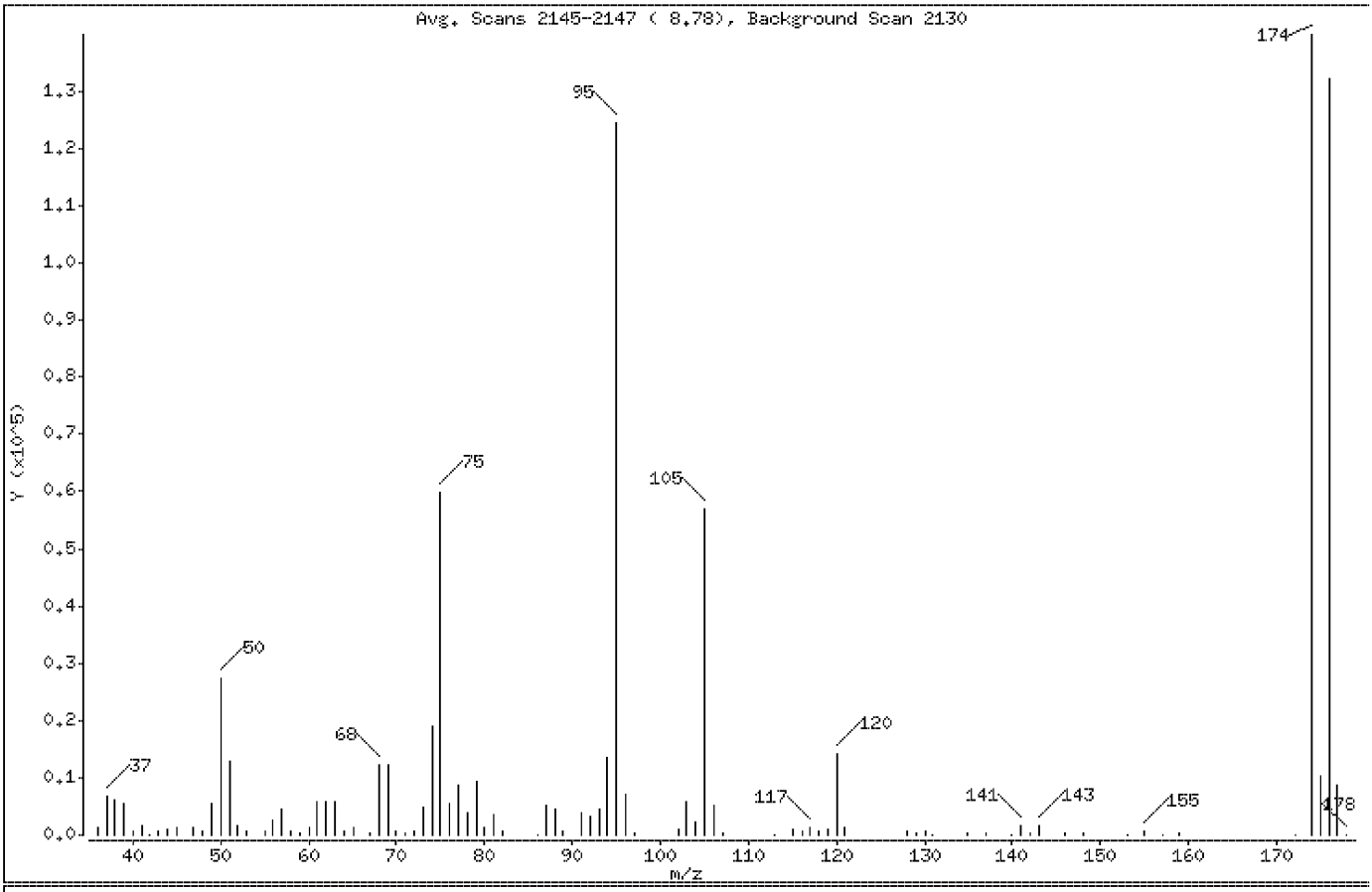
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.04
75	30.00 - 66.00% of mass 95	47.99
96	5.00 - 9.00% of mass 95	5.69
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	112.34
175	4.00 - 9.00% of mass 174	8.36 (7.45)
176	93.00 - 101.00% of mass 174	106.07 (94.42)
177	5.00 - 9.00% of mass 176	7.10 (6.69)

Date : 05-MAR-2017 09:07

Client ID: BFB Instrument: 10air7.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06401BFB.D
Spectrum: Avg. Scans 2145-2147 (8.78), Background Scan 2130
Location of Maximum: 174.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1185	61.00	5756	88.00	4468	128.00	548
37.00	6617	62.00	5754	89.00	753	129.00	199
38.00	6030	63.00	5851	91.00	3875	130.00	556
39.00	5533	64.00	656	92.00	3375	131.00	94
40.00	492	65.00	1160	93.00	4604	135.00	200
41.00	1723	67.00	464	94.00	13603	137.00	334
42.00	87	68.00	12299	95.00	124536	140.00	90
43.00	738	69.00	12289	96.00	7088	141.00	1701
44.00	964	70.00	627	97.00	209	142.00	272
45.00	1159	71.00	401	102.00	976	143.00	1533
47.00	1427	72.00	612	103.00	5922	146.00	222
48.00	784	73.00	4895	104.00	2159	148.00	375
49.00	5624	74.00	19128	105.00	56832	153.00	110
50.00	27448	75.00	59760	106.00	5105	155.00	512
51.00	12783	76.00	5377	107.00	197	157.00	116
52.00	1580	77.00	8743	113.00	84	159.00	248
53.00	670	78.00	3838	115.00	980	172.00	160
55.00	547	79.00	9395	116.00	622	174.00	139904
56.00	2531	80.00	1176	117.00	1282	175.00	10416
57.00	4408	81.00	3549	118.00	544	176.00	132096
58.00	524	82.00	739	119.00	1036	177.00	8838
59.00	435	86.00	99	120.00	14144	178.00	104
60.00	1351	87.00	5026	121.00	1374		

Data File: \\192.168.10.12\chem\10airB.i\030217.b\06101BFB.D

Date : 02-MAR-2017 07:16

Client ID: BFB

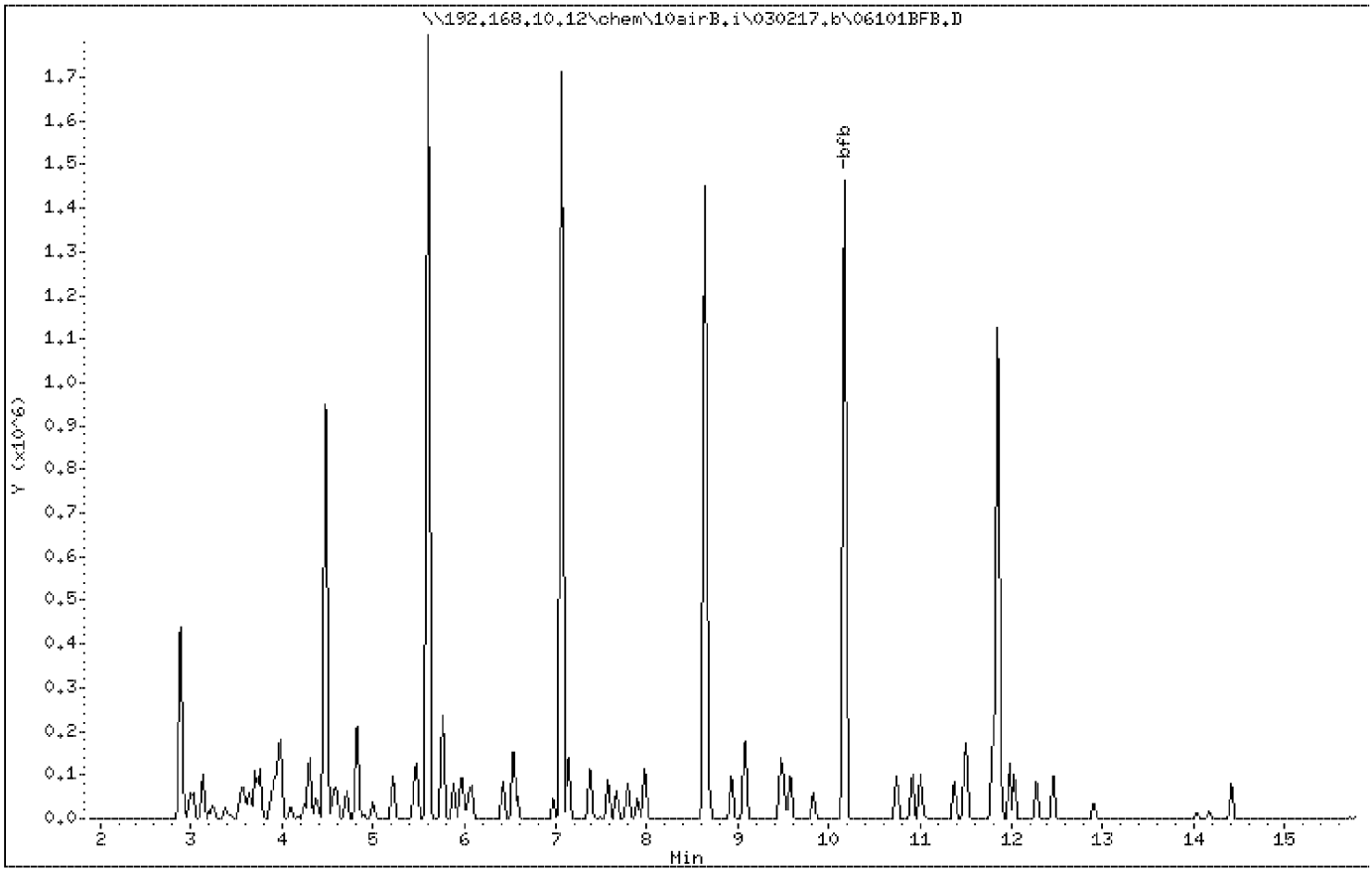
Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030217.b\06101BFB.D

Date : 02-MAR-2017 07:16

Client ID: BFB

Instrument: 10airB.i

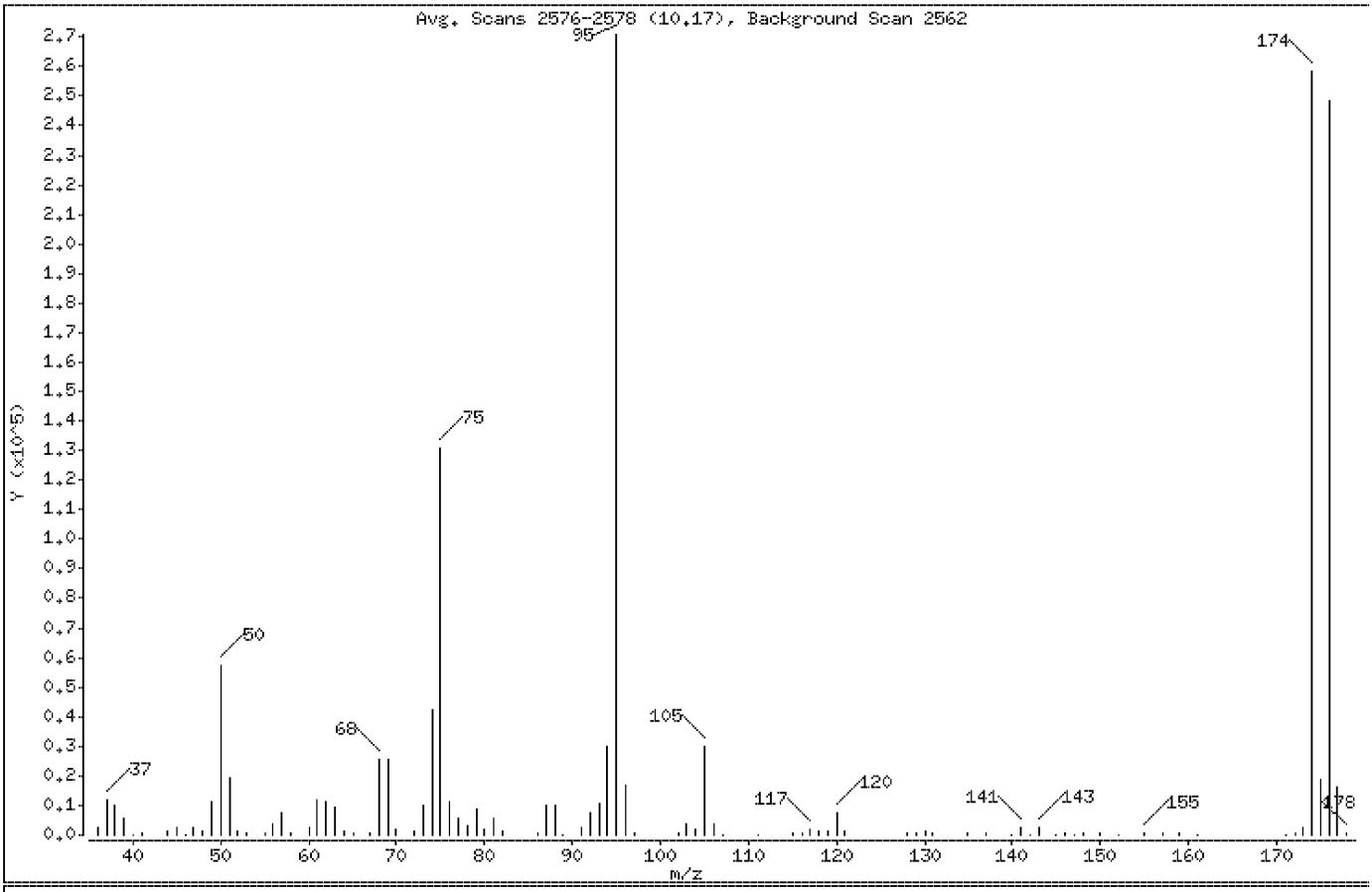
Sample Info:

Operator: NCK

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.18
75	30.00 - 66.00% of mass 95	48.17
96	5.00 - 9.00% of mass 95	6.23
173	Less than 2.00% of mass 174	0.90 (0.94)
174	50.00 - 120.00% of mass 95	95.41
175	4.00 - 9.00% of mass 174	6.96 (7.30)
176	93.00 - 101.00% of mass 174	91.75 (96.16)
177	5.00 - 9.00% of mass 176	5.98 (6.52)

Date : 02-MAR-2017 07:16

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: NCK

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06101BFB.D
Spectrum: Avg. Scans 2576-2578 (10,17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2414	64.00	936	94.00	29624	140.00	93
37.00	11601	65.00	686	95.00	270784	141.00	2504
38.00	10262	67.00	691	96.00	16872	142.00	222
39.00	5600	68.00	25720	97.00	545	143.00	2723
40.00	147	69.00	25264	102.00	504	145.00	96
41.00	842	70.00	1796	103.00	3533	146.00	437
44.00	1483	72.00	1183	104.00	1718	147.00	85
45.00	2196	73.00	10041	105.00	29728	148.00	636
46.00	89	74.00	42280	106.00	3474	150.00	499
47.00	2667	75.00	130432	107.00	217	152.00	219
48.00	1338	76.00	11065	111.00	101	155.00	641
49.00	11307	77.00	5335	115.00	595	157.00	435
50.00	57344	78.00	2928	116.00	910	159.00	361
51.00	19488	79.00	8724	117.00	1673	161.00	149
52.00	1472	80.00	1611	118.00	1063	171.00	83
53.00	374	81.00	5466	119.00	1240	172.00	358
55.00	735	82.00	1172	120.00	7547	173.00	2436
56.00	3772	86.00	382	121.00	971	174.00	258368
57.00	7168	87.00	9720	128.00	762	175.00	18856
58.00	462	88.00	9915	129.00	434	176.00	248448
60.00	2457	89.00	211	130.00	1020	177.00	16201
61.00	11592	91.00	2631	131.00	384	178.00	373
62.00	11482	92.00	7204	135.00	463		
63.00	9244	93.00	10331	137.00	344		

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06301BFB.D

Date : 04-MAR-2017 06:28

Client ID: BFB

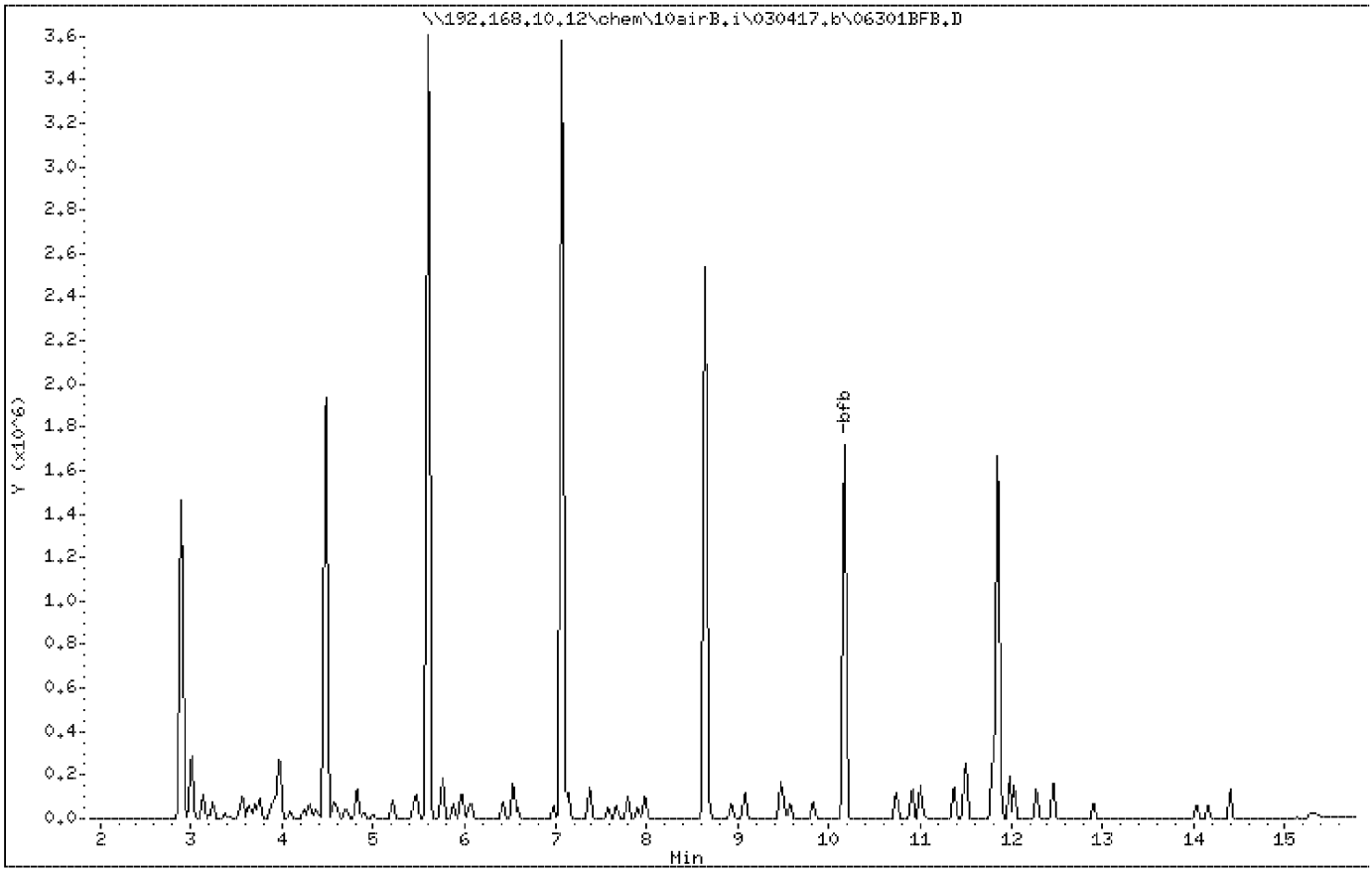
Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b\06301BFB.D

Date : 04-MAR-2017 06:28

Client ID: BFB

Instrument: 10airB.i

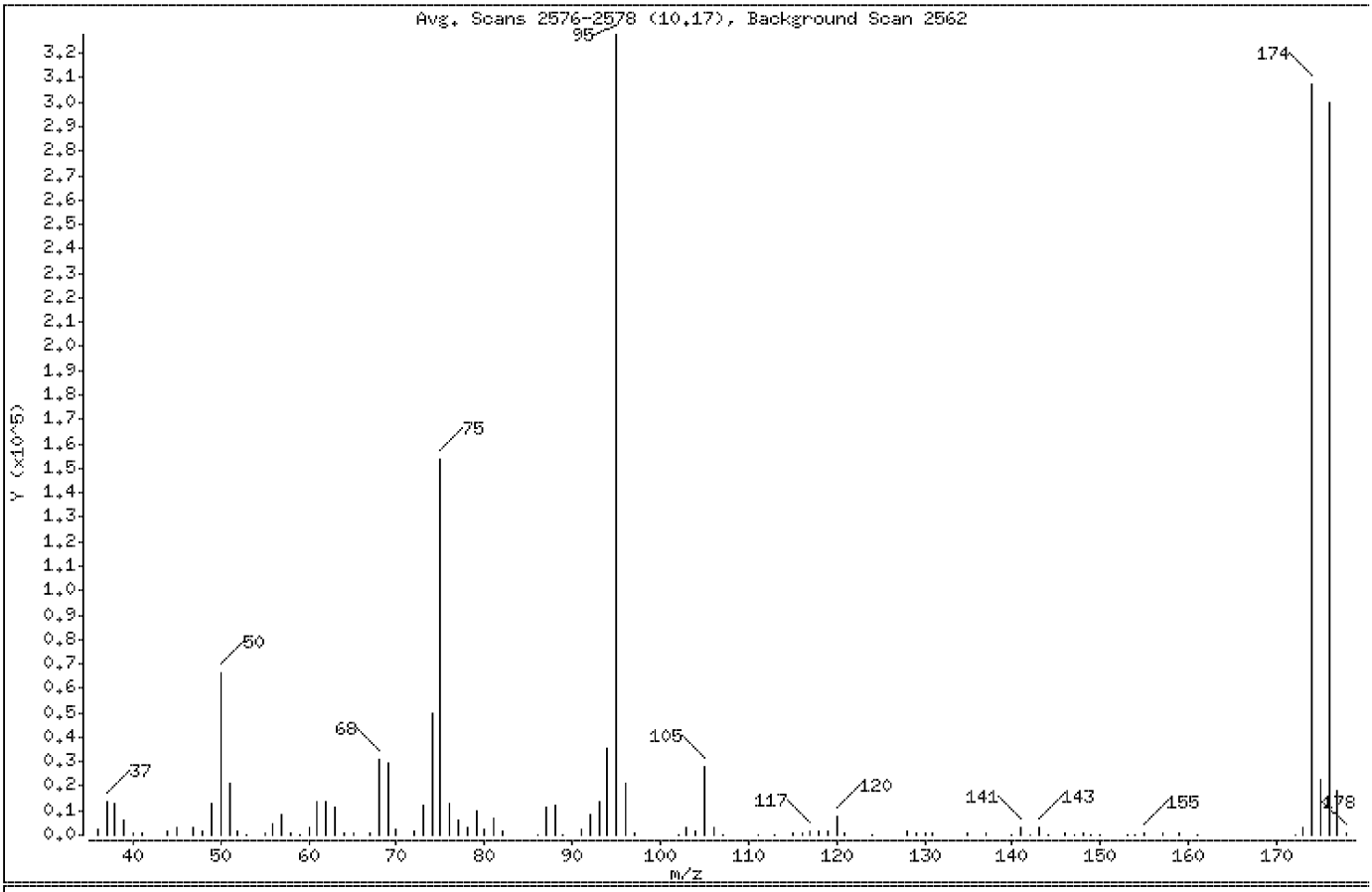
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	20.21
75	30.00 - 66.00% of mass 95	46.92
96	5.00 - 9.00% of mass 95	6.41
173	Less than 2.00% of mass 174	0.94 (1.01)
174	50.00 - 120.00% of mass 95	93.87
175	4.00 - 9.00% of mass 174	6.88 (7.33)
176	93.00 - 101.00% of mass 174	91.50 (97.48)
177	5.00 - 9.00% of mass 176	5.47 (5.98)

Date : 04-MAR-2017 06:28

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06301BFB.D
Spectrum: Avg. Scans 2576-2578 (10.17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2393	65.00	855	96.00	21000	141.00	3313
37.00	13196	67.00	725	97.00	644	142.00	294
38.00	12611	68.00	30584	102.00	307	143.00	3253
39.00	5866	69.00	29544	103.00	3011	144.00	88
40.00	554	70.00	2094	104.00	1804	146.00	532
41.00	621	72.00	1539	105.00	27824	147.00	223
44.00	1793	73.00	12071	106.00	3188	148.00	758
45.00	2909	74.00	49368	107.00	310	149.00	187
47.00	3039	75.00	153728	111.00	84	150.00	327
48.00	1537	76.00	12945	113.00	92	153.00	188
49.00	12704	77.00	5654	115.00	803	154.00	101
50.00	66224	78.00	2713	116.00	1018	155.00	891
51.00	21152	79.00	9729	117.00	1880	157.00	607
52.00	1318	80.00	2044	118.00	1200	159.00	463
53.00	310	81.00	6929	119.00	1527	161.00	311
55.00	872	82.00	1338	120.00	7191	172.00	263
56.00	4379	86.00	225	121.00	641	173.00	3093
57.00	8520	87.00	11626	124.00	162	174.00	307520
58.00	515	88.00	11782	128.00	1160	175.00	22544
59.00	177	89.00	229	129.00	454	176.00	299776
60.00	2734	91.00	2358	130.00	1046	177.00	17920
61.00	13539	92.00	8206	131.00	428	178.00	545
62.00	13482	93.00	13237	135.00	484		
63.00	11139	94.00	35216	137.00	482		
64.00	1085	95.00	327616	140.00	126		

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06401BFB.D

Date : 05-MAR-2017 09:08

Client ID: BFB

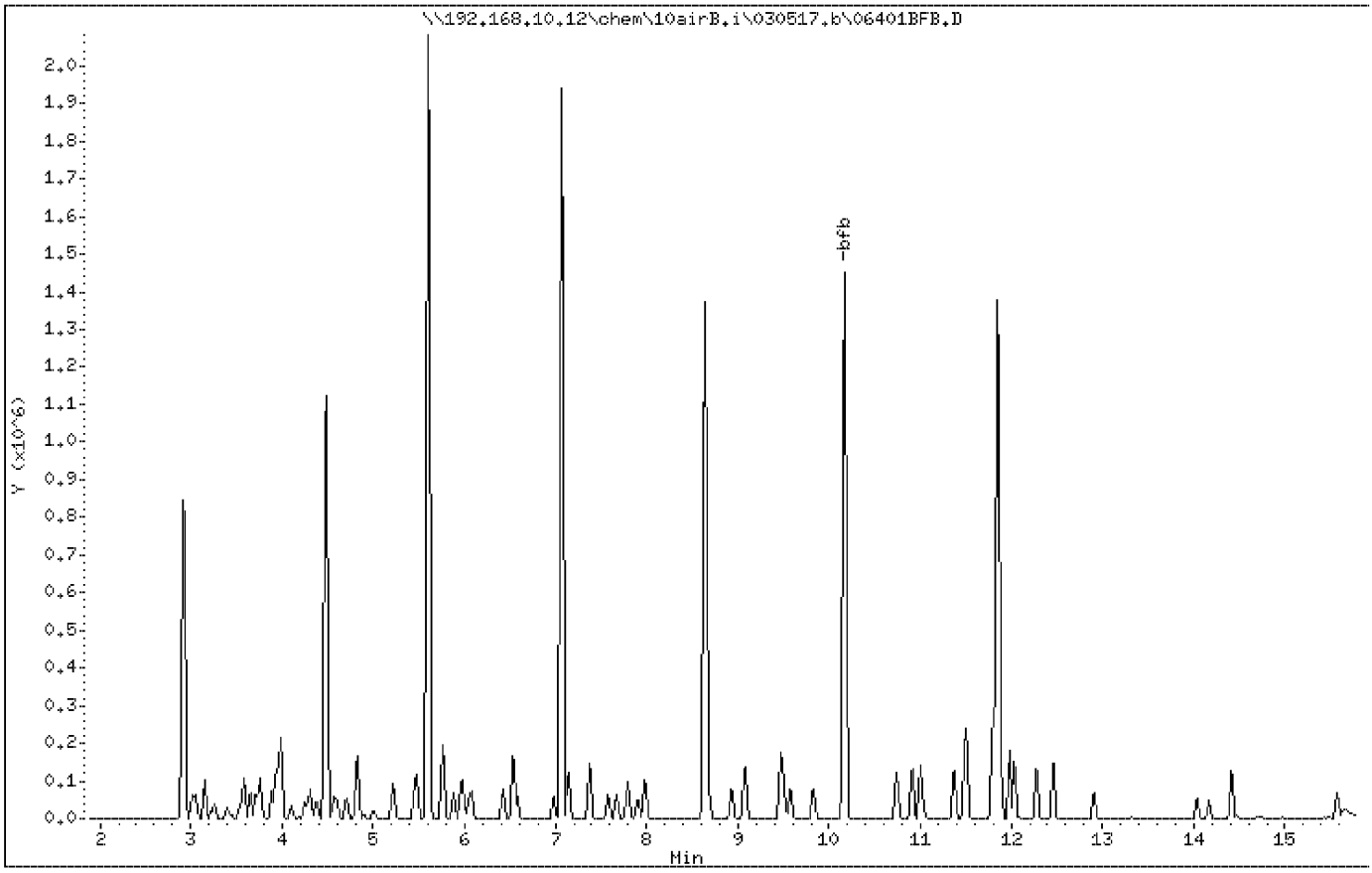
Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b\06401BFB.D

Date : 05-MAR-2017 09:08

Client ID: BFB

Instrument: 10airB.i

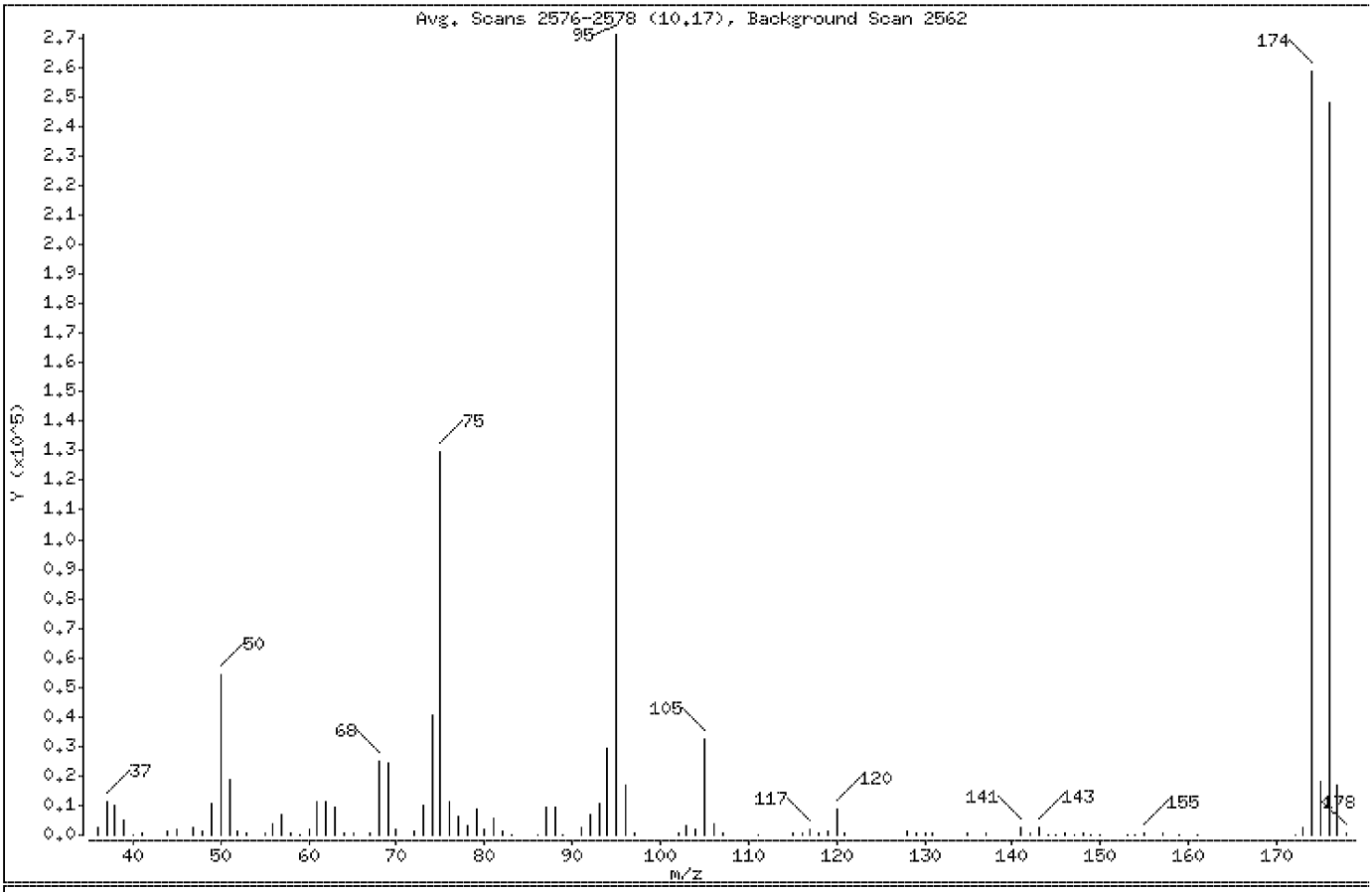
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	20.04
75	30.00 - 66.00% of mass 95	47.83
96	5.00 - 9.00% of mass 95	6.22
173	Less than 2.00% of mass 174	0.95 (0.99)
174	50.00 - 120.00% of mass 95	95.49
175	4.00 - 9.00% of mass 174	6.70 (7.02)
176	93.00 - 101.00% of mass 174	91.43 (95.75)
177	5.00 - 9.00% of mass 176	6.11 (6.68)

Date : 05-MAR-2017 09:08

Client ID: BFB Instrument: 10airB.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5 Column diameter: 0.32

Data File: 06401BFB.D
Spectrum: Avg. Scans 2576-2578 (10.17), Background Scan 2562
Location of Maximum: 95.00
Number of points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2261	65.00	861	95.00	271104	143.00	2397
37.00	11370	67.00	610	96.00	16864	144.00	87
38.00	9930	68.00	25048	97.00	547	145.00	99
39.00	5222	69.00	24592	102.00	482	146.00	350
40.00	205	70.00	1617	103.00	3304	147.00	99
41.00	541	72.00	1334	104.00	1904	148.00	760
44.00	1536	73.00	10277	105.00	32208	149.00	97
45.00	2081	74.00	40464	106.00	3765	150.00	231
47.00	2550	75.00	129664	107.00	398	153.00	113
48.00	1379	76.00	11014	111.00	86	154.00	86
49.00	10811	77.00	5941	115.00	570	155.00	733
50.00	54336	78.00	2878	116.00	764	157.00	461
51.00	18440	79.00	8608	117.00	1678	159.00	250
52.00	1512	80.00	1839	118.00	853	161.00	101
53.00	399	81.00	5465	119.00	1315	172.00	243
55.00	755	82.00	1078	120.00	8860	173.00	2574
56.00	3801	83.00	88	121.00	828	174.00	258880
57.00	6954	86.00	128	128.00	980	175.00	18176
58.00	521	87.00	9269	129.00	402	176.00	247872
59.00	87	88.00	9464	130.00	721	177.00	16568
60.00	2030	89.00	172	131.00	384	178.00	387
61.00	11074	91.00	2573	135.00	401		
62.00	11150	92.00	7069	137.00	382		
63.00	9338	93.00	10724	141.00	2410		
64.00	899	94.00	29288	142.00	315		

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10379458001	**SS-C1_20170215**	TO-15	462564		
10379458002	**SS-C20_20170215**	TO-15	462564		
10379458003	**SS-E16_20170215**	TO-15	462564		
10379458004	**SS-D7_20170215**	TO-15	462564		
10379458005	**IA-D13_20170215**	TO-15	462564		
10379458006	**SS-G18_20170215**	TO-15	462564		
10379458007	**IA-C1_20170215**	TO-15	462564		
10379458008	**IA-C20_20170215**	TO-15	462564		
10379458009	**IA-E16_20170215**	TO-15	462564		
10379458010	**IA-D7_20170215**	TO-15	462594		
10379458011	**SS-D13_20170215**	TO-15	462594		
10379458012	**IA-G18_20170215**	TO-15	462594		
10379458013	**IA-12_20170215**	TO-15	462594		
10379458014	**IA-C20_20170215DUP**	TO-15	462594		
10379458015	**SS-C1_20170215DUP**	TO-15	462594		
10379458016	**AA_20170215**	TO-15	462594		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

QC Batch: 462564 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10379458001, 10379458002, 10379458003, 10379458004, 10379458005, 10379458006, 10379458007, 10379458008, 10379458009

METHOD BLANK: 2529399 Matrix: Air
Associated Lab Samples: 10379458001, 10379458002, 10379458003, 10379458004, 10379458005, 10379458006, 10379458007, 10379458008, 10379458009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/04/17 12:20	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/04/17 12:20	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/04/17 12:20	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/04/17 12:20	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/04/17 12:20	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/04/17 12:20	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/04/17 12:20	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/04/17 12:20	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/04/17 12:20	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/04/17 12:20	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/04/17 12:20	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/04/17 12:20	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/04/17 12:20	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/04/17 12:20	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/04/17 12:20	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/04/17 12:20	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/04/17 12:20	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/04/17 12:20	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/04/17 12:20	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/04/17 12:20	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/04/17 12:20	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/04/17 12:20	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/04/17 12:20	
Acetone	ug/m3	<0.83	2.4	0.83	03/04/17 12:20	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/04/17 12:20	
Benzene	ug/m3	<0.12	0.32	0.12	03/04/17 12:20	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/04/17 12:20	
Bromoform	ug/m3	<0.90	2.1	0.90	03/04/17 12:20	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/04/17 12:20	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/04/17 12:20	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/04/17 12:20	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/04/17 12:20	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/04/17 12:20	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/04/17 12:20	
Chloroform	ug/m3	<0.19	0.50	0.19	03/04/17 12:20	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/04/17 12:20	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/04/17 12:20	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/04/17 12:20	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/04/17 12:20	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/04/17 12:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

METHOD BLANK: 2529399 Matrix: Air

Associated Lab Samples: 10379458001, 10379458002, 10379458003, 10379458004, 10379458005, 10379458006, 10379458007, 10379458008, 10379458009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/04/17 12:20	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/04/17 12:20	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/04/17 12:20	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/04/17 12:20	
Freon 123	ug/m3	<3.2	3.2	3.2	03/04/17 12:20	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/04/17 12:20	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/04/17 12:20	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/04/17 12:20	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/04/17 12:20	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/04/17 12:20	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/04/17 12:20	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/04/17 12:20	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/04/17 12:20	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/04/17 12:20	
Styrene	ug/m3	<0.19	0.87	0.19	03/04/17 12:20	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/04/17 12:20	
Toluene	ug/m3	<0.15	0.77	0.15	03/04/17 12:20	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/04/17 12:20	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/04/17 12:20	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/04/17 12:20	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/04/17 12:20	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/04/17 12:20	

LABORATORY CONTROL SAMPLE: 2529400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.0	99	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.2	109	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	51.6	93	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	70.6	91	66-131	
1,1-Dichloroethane	ug/m3	41.1	39.7	97	62-139	
1,1-Dichloroethene	ug/m3	40.3	38.0	94	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	72.1	96	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	56.6	113	57-143	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	101	103	50-150	1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	77.4	99	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	59.7	98	57-141	
1,2-Dichloroethane	ug/m3	41.1	39.4	96	61-144	
1,2-Dichloropropane	ug/m3	47	44.9	96	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	50.7	102	54-147	
1,3-Butadiene	ug/m3	22.5	22.4	99	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	62.7	103	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	67.7	111	57-143	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

LABORATORY CONTROL SAMPLE: 2529400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	35.0	96	58-144	
2-Butanone (MEK)	ug/m3	30	27.2	91	66-144	
2-Hexanone	ug/m3	104	112	107	63-147	
2-Propanol	ug/m3	125	113	91	54-146	
4-Ethyltoluene	ug/m3	50	49.3	99	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	99.1	95	58-150	
Acetone	ug/m3	121	105	87	46-140	
Allyl chloride	ug/m3	79.5	76.1	96	65-142	
Benzene	ug/m3	32.5	31.5	97	62-141	
Bromodichloromethane	ug/m3	68.1	68.3	100	58-149	
Bromoform	ug/m3	105	99.6	95	61-150	
Bromomethane	ug/m3	39.5	37.3	95	58-136	
Carbon disulfide	ug/m3	31.6	32.9	104	59-135	
Carbon tetrachloride	ug/m3	64	67.3	105	60-149	
Chlorobenzene	ug/m3	46.8	43.8	94	60-150	
Chlorodifluoromethane	ug/m3	36	35.1	98	70-130	
Chloroethane	ug/m3	26.8	25.3	94	61-136	
Chloroform	ug/m3	49.6	51.0	103	65-138	
Chloromethane	ug/m3	21	19.7	94	62-133	
Chloropentafluoroethane	ug/m3	64.2	45.3	71	50-150	1M
cis-1,2-Dichloroethene	ug/m3	40.3	40.3	100	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	42.9	93	61-149	
Cyclohexane	ug/m3	35	33.5	96	64-134	
Dibromochloromethane	ug/m3	86.6	81.7	94	59-150	
Dichlorodifluoromethane	ug/m3	50.3	48.4	96	63-134	
Dichlorotetrafluoroethane	ug/m3	71	64.1	90	62-134	
Ethylbenzene	ug/m3	44.1	43.3	98	59-149	
Freon 123	ug/m3	63.6	55.0	86	50-150	1M
Hexachloro-1,3-butadiene	ug/m3	108	105	97	42-150	
Isopropylbenzene (Cumene)	ug/m3	50	49.2	98	65-150	
m&p-Xylene	ug/m3	88.3	86.8	98	59-146	
Methyl acetate	ug/m3	30.8	28.8	94	50-150	1M
Methyl-tert-butyl ether	ug/m3	91.6	85.3	93	64-135	
Methylcyclohexane	ug/m3	40.8	38.8	95	70-130	
Methylene Chloride	ug/m3	177	161	91	64-128	
n-Hexane	ug/m3	35.8	32.7	91	50-138	
o-Xylene	ug/m3	44.1	43.3	98	54-149	
Styrene	ug/m3	43.3	40.5	94	54-150	
Tetrachloroethene	ug/m3	68.9	64.0	93	60-142	
Toluene	ug/m3	38.3	36.2	94	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	40.8	101	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	44.0	95	59-145	
Trichloroethene	ug/m3	54.6	51.7	95	60-144	
Trichlorofluoromethane	ug/m3	57.1	51.4	90	59-134	
Vinyl chloride	ug/m3	26	25.1	97	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

SAMPLE DUPLICATE: 2529705

Parameter	Units	10379929012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.55	<0.55		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.51	<0.51		25	
1,1-Dichloroethane	ug/m3	<0.26	<0.26		25	
1,1-Dichloroethene	ug/m3	<0.40	<0.40		25	
1,2,4-Trichlorobenzene	ug/m3	<1.5	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	<0.21	<0.21		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.2	<8.2		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.3	<1.3		25	
1,2-Dichlorobenzene	ug/m3	<0.86	<0.86		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.45	<0.45		25	
1,3,5-Trimethylbenzene	ug/m3	<0.31	<0.31		25	
1,3-Butadiene	ug/m3	<0.30	<0.30		25	
1,3-Dichlorobenzene	ug/m3	<0.89	<0.89		25	
1,4-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.59	<0.59		25	
2-Butanone (MEK)	ug/m3	2.0J	2.1J		25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	1.1J	1.2J		25	
4-Ethyltoluene	ug/m3	<0.32	<0.32		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	9.2	9.6	4	25	
Allyl chloride	ug/m3	<0.38	<0.38		25	
Benzene	ug/m3	<0.20	<0.20		25	
Bromodichloromethane	ug/m3	<0.33	<0.33		25	
Bromoform	ug/m3	<1.5	<1.5		25	
Bromomethane	ug/m3	<0.52	<0.52		25	
Carbon disulfide	ug/m3	<0.17	<0.17		25	
Carbon tetrachloride	ug/m3	<0.32	<0.32		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.46	<0.46		25	
Chloroethane	ug/m3	<0.33	<0.33		25	
Chloroform	ug/m3	<0.32	<0.32		25	
Chloromethane	ug/m3	0.44J	0.54J		25	
Chloropentafluoroethane	ug/m3	<5.4	<5.4		25	
cis-1,2-Dichloroethene	ug/m3	<0.41	<0.41		25	
cis-1,3-Dichloropropene	ug/m3	<0.62	<0.62		25	
Cyclohexane	ug/m3	<0.53	<0.53		25	
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	2.1	2.3	8	25	
Dichlorotetrafluoroethane	ug/m3	<0.52	<0.52		25	
Ethylbenzene	ug/m3	<0.71	<0.71		25	
Freon 123	ug/m3	<5.3	<5.3		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.23	<0.23		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

SAMPLE DUPLICATE: 2529705

Parameter	Units	10379929012 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	<1.3	<1.3		25	
Methyl acetate	ug/m3	<2.6	<2.6		25	
Methyl-tert-butyl ether	ug/m3	<0.51	<0.51		25	
Methylcyclohexane	ug/m3	<0.41	<0.41		25	
Methylene Chloride	ug/m3	5.4J	5.6J		25	
n-Hexane	ug/m3	<0.60	<0.60		25	
o-Xylene	ug/m3	<0.59	<0.59		25	
Styrene	ug/m3	<0.32	<0.32		25	
Tetrachloroethene	ug/m3	<0.47	<0.47		25	
Toluene	ug/m3	<0.26	<0.26		25	
trans-1,2-Dichloroethene	ug/m3	<0.65	<0.65		25	
trans-1,3-Dichloropropene	ug/m3	<0.44	<0.44		25	
Trichloroethene	ug/m3	0.76J	0.74J		25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J		25	
Vinyl chloride	ug/m3	<0.33	<0.33		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

QC Batch: 462594 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10379458010, 10379458011, 10379458012, 10379458013, 10379458014, 10379458015, 10379458016

METHOD BLANK: 2529703 Matrix: Air
Associated Lab Samples: 10379458010, 10379458011, 10379458012, 10379458013, 10379458014, 10379458015, 10379458016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/05/17 13:11	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/05/17 13:11	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/05/17 13:11	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/05/17 13:11	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/05/17 13:11	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/05/17 13:11	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/05/17 13:11	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/05/17 13:11	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/05/17 13:11	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/05/17 13:11	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/05/17 13:11	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/05/17 13:11	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/05/17 13:11	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/05/17 13:11	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/05/17 13:11	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/05/17 13:11	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/05/17 13:11	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/05/17 13:11	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/05/17 13:11	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/05/17 13:11	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/05/17 13:11	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/05/17 13:11	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/05/17 13:11	
Acetone	ug/m3	<0.83	2.4	0.83	03/05/17 13:11	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/05/17 13:11	
Benzene	ug/m3	<0.12	0.32	0.12	03/05/17 13:11	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/05/17 13:11	
Bromoform	ug/m3	<0.90	2.1	0.90	03/05/17 13:11	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/05/17 13:11	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/05/17 13:11	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/05/17 13:11	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/05/17 13:11	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/05/17 13:11	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/05/17 13:11	
Chloroform	ug/m3	<0.19	0.50	0.19	03/05/17 13:11	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/05/17 13:11	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/05/17 13:11	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/05/17 13:11	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/05/17 13:11	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/05/17 13:11	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/05/17 13:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

METHOD BLANK: 2529703 Matrix: Air
Associated Lab Samples: 10379458010, 10379458011, 10379458012, 10379458013, 10379458014, 10379458015, 10379458016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/05/17 13:11	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/05/17 13:11	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/05/17 13:11	
Freon 123	ug/m3	<3.2	3.2	3.2	03/05/17 13:11	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/05/17 13:11	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/05/17 13:11	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/05/17 13:11	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/05/17 13:11	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/05/17 13:11	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/05/17 13:11	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/05/17 13:11	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/05/17 13:11	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/05/17 13:11	
Styrene	ug/m3	<0.19	0.87	0.19	03/05/17 13:11	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/05/17 13:11	
Toluene	ug/m3	<0.15	0.77	0.15	03/05/17 13:11	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/05/17 13:11	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/05/17 13:11	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/05/17 13:11	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/05/17 13:11	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/05/17 13:11	

LABORATORY CONTROL SAMPLE: 2529704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.9	101	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.5	110	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	52.1	94	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	73.5	94	66-131	
1,1-Dichloroethane	ug/m3	41.1	40.2	98	62-139	
1,1-Dichloroethene	ug/m3	40.3	38.3	95	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	75.4	100	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	57.5	115	57-143	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	101	103	50-150	2M
1,2-Dibromoethane (EDB)	ug/m3	78.1	80.7	103	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	61.2	100	57-141	
1,2-Dichloroethane	ug/m3	41.1	39.9	97	61-144	
1,2-Dichloropropane	ug/m3	47	45.2	96	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	51.5	103	54-147	
1,3-Butadiene	ug/m3	22.5	21.9	97	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	64.0	105	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	68.8	113	57-143	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	35.5	97	58-144	
2-Butanone (MEK)	ug/m3	30	28.0	93	66-144	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

LABORATORY CONTROL SAMPLE: 2529704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	109	105	63-147	
2-Propanol	ug/m3	125	114	91	54-146	
4-Ethyltoluene	ug/m3	50	49.5	99	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	98.2	94	58-150	
Acetone	ug/m3	121	103	86	46-140	
Allyl chloride	ug/m3	79.5	76.9	97	65-142	
Benzene	ug/m3	32.5	32.3	100	62-141	
Bromodichloromethane	ug/m3	68.1	67.7	99	58-149	
Bromoform	ug/m3	105	104	99	61-150	
Bromomethane	ug/m3	39.5	37.1	94	58-136	
Carbon disulfide	ug/m3	31.6	33.6	106	59-135	
Carbon tetrachloride	ug/m3	64	68.7	107	60-149	
Chlorobenzene	ug/m3	46.8	46.7	100	60-150	
Chlorodifluoromethane	ug/m3	36	35.6	99	70-130	
Chloroethane	ug/m3	26.8	24.2	90	61-136	
Chloroform	ug/m3	49.6	47.5	96	65-138	
Chloromethane	ug/m3	21	19.6	93	62-133	
Chloropentafluoroethane	ug/m3	64.2	38.2	60	50-150	2M,CL
cis-1,2-Dichloroethene	ug/m3	40.3	41.0	102	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	43.1	94	61-149	
Cyclohexane	ug/m3	35	33.7	96	64-134	
Dibromochloromethane	ug/m3	86.6	84.9	98	59-150	
Dichlorodifluoromethane	ug/m3	50.3	49.3	98	63-134	
Dichlorotetrafluoroethane	ug/m3	71	65.5	92	62-134	
Ethylbenzene	ug/m3	44.1	45.7	104	59-149	
Freon 123	ug/m3	63.6	49.0	77	50-150	2M
Hexachloro-1,3-butadiene	ug/m3	108	114	106	42-150	
Isopropylbenzene (Cumene)	ug/m3	50	50.6	101	65-150	
m&p-Xylene	ug/m3	88.3	90.7	103	59-146	
Methyl acetate	ug/m3	30.8	29.5	96	50-150	2M
Methyl-tert-butyl ether	ug/m3	91.6	87.7	96	64-135	
Methylcyclohexane	ug/m3	40.8	38.6	94	70-130	
Methylene Chloride	ug/m3	177	164	93	64-128	
n-Hexane	ug/m3	35.8	34.7	97	50-138	
o-Xylene	ug/m3	44.1	45.0	102	54-149	
Styrene	ug/m3	43.3	42.1	97	54-150	
Tetrachloroethene	ug/m3	68.9	68.4	99	60-142	
Toluene	ug/m3	38.3	36.7	96	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	41.9	104	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	44.1	96	59-145	
Trichloroethene	ug/m3	54.6	52.9	97	60-144	
Trichlorofluoromethane	ug/m3	57.1	52.5	92	59-134	
Vinyl chloride	ug/m3	26	24.6	95	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

SAMPLE DUPLICATE: 2530069

Parameter	Units	10380193001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.53	<0.53		25	
1,1-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<1.6	<1.6		25	
1,2,4-Trimethylbenzene	ug/m3	2.1	2.2	4	25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.6	<8.6		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4		25	
1,2-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,2-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	<0.32	<0.32		25	
1,3-Butadiene	ug/m3	<0.31	<0.31		25	
1,3-Dichlorobenzene	ug/m3	<0.93	<0.93		25	
1,4-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.62	<0.62		25	
2-Butanone (MEK)	ug/m3	14.0	14.5	3	25	
2-Hexanone	ug/m3	<0.72	<0.72		25	
2-Propanol	ug/m3	13.0	13.1	0	25	
4-Ethyltoluene	ug/m3	1.4J	1.3J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.38	<0.38		25	
Acetone	ug/m3	74.0	73.3	1	25	
Allyl chloride	ug/m3	<0.40	<0.40		25	
Benzene	ug/m3	1.5	1.5	1	25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<1.6	<1.6		25	
Bromomethane	ug/m3	<0.54	<0.54		25	
Carbon disulfide	ug/m3	<0.18	<0.18		25	
Carbon tetrachloride	ug/m3	<0.34	<0.34		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.48	<0.48		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	1.1	1.0	4	25	
Chloropentafluoroethane	ug/m3	<5.6	<5.6		25	CL
cis-1,2-Dichloroethene	ug/m3	<0.43	<0.43		25	
cis-1,3-Dichloropropene	ug/m3	<0.65	<0.65		25	
Cyclohexane	ug/m3	13.6	14.0	3	25	
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	2.1	2.1	0	25	
Dichlorotetrafluoroethane	ug/m3	<0.54	<0.54		25	
Ethylbenzene	ug/m3	32.4	32.8	1	25	
Freon 123	ug/m3	<5.6	<5.6		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.24	<0.24		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

SAMPLE DUPLICATE: 2530069

Parameter	Units	10380193001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	118	121	3	25	
Methyl acetate	ug/m3	<2.7	<2.7		25	
Methyl-tert-butyl ether	ug/m3	<0.53	<0.53		25	
Methylcyclohexane	ug/m3	8.4	8.4	1	25	
Methylene Chloride	ug/m3	6.1J	6.0J		25	
n-Hexane	ug/m3	2.4	2.6	6	25	
o-Xylene	ug/m3	29.1	30.0	3	25	
Styrene	ug/m3	1.8	1.9	3	25	
Tetrachloroethene	ug/m3	4.7	5.0	5	25	
Toluene	ug/m3	69.3	69.9	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.67	<0.67		25	
trans-1,3-Dichloropropene	ug/m3	<0.46	<0.46		25	
Trichloroethene	ug/m3	1.2	1.2	1	25	
Trichlorofluoromethane	ug/m3	1.2J	1.2J		25	
Vinyl chloride	ug/m3	<0.34	<0.34		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Report Date: 05-Mar-2017 14:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Lab Smp Id: 2529399
Inj Date : 04-MAR-2017 12:20
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						
5	Dichlorodifluoromethane	85	Compound Not Detected.						
6	Chloromethane	50	Compound Not Detected.						
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Report Date: 05-Mar-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	24 Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25 Methylene chloride	49	Compound Not Detected.						(D)
	26 Allyl Chloride	76	Compound Not Detected.						
	27 Carbon Disulfide	76	Compound Not Detected.						
	28 trans-1,2-dichloroethene	96	Compound Not Detected.						
	29 Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30 Vinyl Acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32 Hexane-d14(S)	66	4.484	4.491	(0.801)	432082	9.89479	9.89	
	33 Methyl Ethyl Ketone	72	Compound Not Detected.						
	34 n-Hexane	57	Compound Not Detected.						
	35 Di-isopropyl Ether	45	Compound Not Detected.						
	36 Ethyl Acetate	43	Compound Not Detected.						
	37 cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38 Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39 Chloroform	83	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
	41 1,1,1-Trichloroethane	97	Compound Not Detected.						
	42 1,2-Dichloroethane	62	Compound Not Detected.						
	43 Benzene	78	Compound Not Detected.						
	44 Carbon tetrachloride	117	Compound Not Detected.						
	45 Cyclohexane	56	Compound Not Detected.						
	46 Tert Amyl Methyl Ether	73	Compound Not Detected.						(D)
*	47 1,4-Difluorobenzene	114	5.600	5.613	(1.000)	1372533	10.0000		
	48 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49 Heptane	43	Compound Not Detected.						
	50 1,2-Dichloropropane	63	Compound Not Detected.						
	51 Trichloroethene	130	Compound Not Detected.						
	52 Methyl methacrylate	69	Compound Not Detected.						
	53 1,4-Dioxane	88	Compound Not Detected.						
	54 Bromodichloromethane	83	Compound Not Detected.						
	55 Methylcyclohexane	98	Compound Not Detected.						
	56 Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58 trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59 Toluene-d8 (S)	98	7.069	7.076	(1.262)	1160477	9.44664	9.45	
	60 1,1,2-Trichloroethane	97	Compound Not Detected.						
	61 Toluene	91	Compound Not Detected.						
	62 Methyl Butyl Ketone	43	Compound Not Detected.						
	63 n-Octane	43	Compound Not Detected.						
	64 Dibromochloromethane	129	Compound Not Detected.						
	65 1,2-Dibromoethane	107	Compound Not Detected.						
	66 Tetrachloroethene	166	Compound Not Detected.						
*	67 Chlorobenzene - d5	117	8.638	8.645	(1.000)	883257	10.0000		
	68 Chlorobenzene	112	Compound Not Detected.						
	69 Ethyl Benzene	91	Compound Not Detected.						
	70 m&p-Xylene	91	Compound Not Detected.						
	71 n-Nonane	43	Compound Not Detected.						
	72 Bromoform	173	Compound Not Detected.						
	73 Styrene	104	Compound Not Detected.						
	74 o-Xylene	91	Compound Not Detected.						
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76 Isopropylbenzene	105	Compound Not Detected.						
	77 N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Report Date: 05-Mar-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	444436	9.13432	9.13
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Report Date: 05-Mar-2017 14:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06312_27836.D
Lab Smp Id: 2529399
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

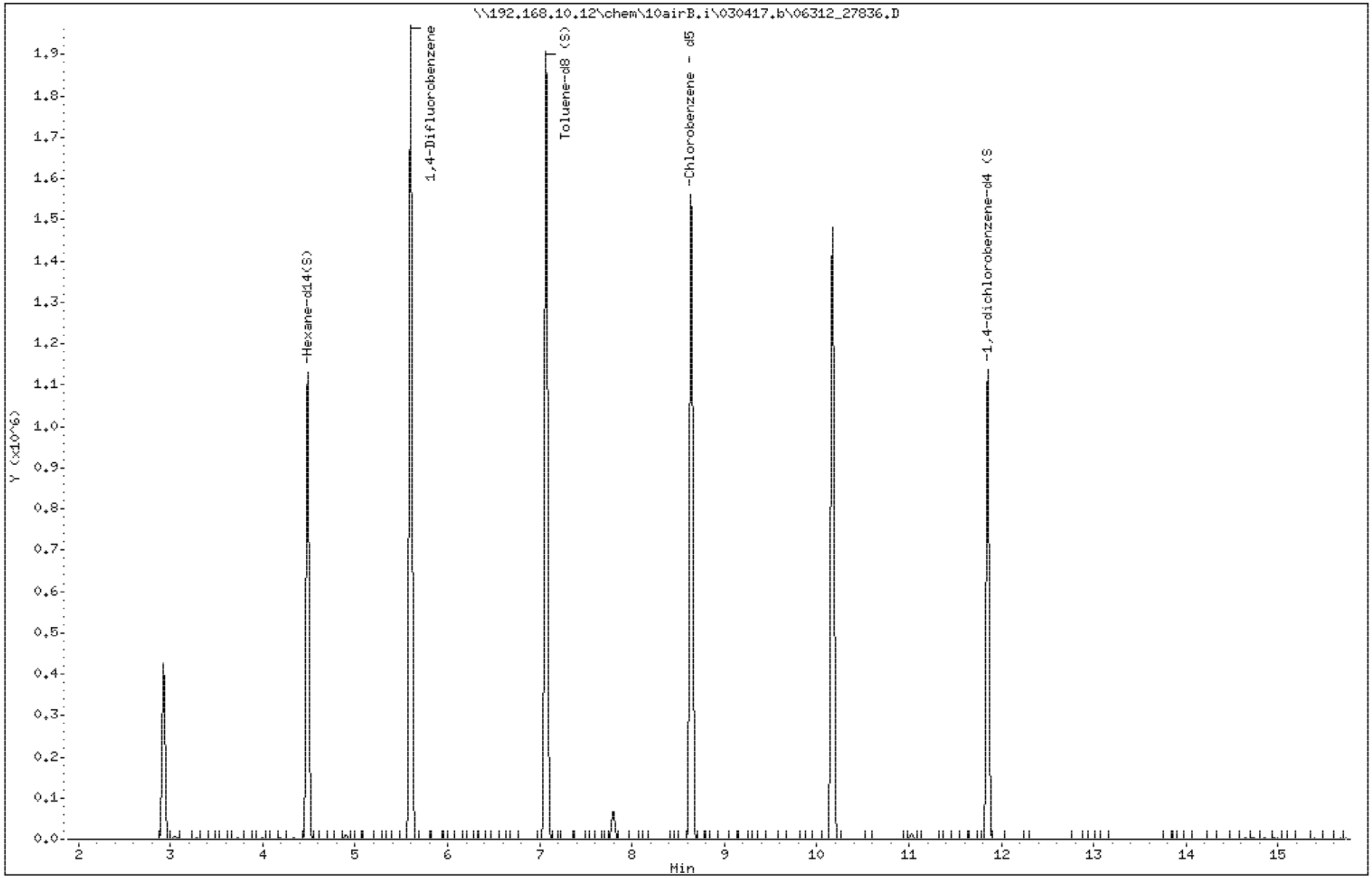
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1372533	-2.94
67 Chlorobenzene - d	951026	570616	1331436	883257	-7.13

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06312_27836.D
Date : 04-MAR-2017 12:20
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030417.b/06312.D
Injection Date: 04-MAR-2017 12:20
Instrument: 10airB.i
Lab Sample ID: CERT
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Report Date: 07-Mar-2017 15:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Lab Smp Id: 2529703
Inj Date : 05-MAR-2017 13:11
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
1	Chloropentafluoroethane	85	Compound Not Detected.						
2	1,1-Difluoroethane	65	Compound Not Detected.						
3	Chlorodifluoromethane	67	Compound Not Detected.						
4	Propylene	41	Compound Not Detected.						(D)
5	Dichlorodifluoromethane	85	Compound Not Detected.						(D)
6	Chloromethane	50	Compound Not Detected.						(D)
7	Dichlorotetrafluoroethane	85	Compound Not Detected.						
8	Vinyl chloride	62	Compound Not Detected.						
9	1,3-Butadiene	54	Compound Not Detected.						
10	Bromomethane	94	Compound Not Detected.						
11	Chloroethane	64	Compound Not Detected.						
12	Ethanol	45	Compound Not Detected.						
13	Vinyl Bromide	106	Compound Not Detected.						
14	Isopentane	43	Compound Not Detected.						
15	Freon 123	83	Compound Not Detected.						
16	Trichlorofluoromethane	101	Compound Not Detected.						
17	Acrolein	56	Compound Not Detected.						
18	Acetone	43	Compound Not Detected.						(D)
19	Isopropyl Alcohol	45	Compound Not Detected.						
20	1,1-Dichloroethene	61	Compound Not Detected.						
21	Acrylonitrile	53	Compound Not Detected.						
22	Freon 113	101	Compound Not Detected.						
23	Methyl Acetate	43	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Report Date: 07-Mar-2017 15:01

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppbv)	(ppbv)	
	24	Tert Butyl Alcohol (TBA)	59	Compound Not Detected.						
	25	Methylene chloride	49	Compound Not Detected.						(D)
	26	Allyl Chloride	76	Compound Not Detected.						
	27	Carbon Disulfide	76	Compound Not Detected.						
	28	trans-1,2-dichloroethene	96	Compound Not Detected.						
	29	Methyl Tert Butyl Ether	73	Compound Not Detected.						
	30	Vinyl Acetate	43	Compound Not Detected.						
	31	1,1-Dichloroethane	63	Compound Not Detected.						(D)
$	32	Hexane-d14(S)	66	4.478	4.481	(0.800)	420704	9.66527	9.67	
	33	Methyl Ethyl Ketone	72	Compound Not Detected.						
	34	n-Hexane	57	Compound Not Detected.						
	35	Di-isopropyl Ether	45	Compound Not Detected.						
	36	Ethyl Acetate	43	Compound Not Detected.						
	37	cis-1,2-Dichloroethene	96	Compound Not Detected.						
	38	Ethyl Tert-Butyl Ether	59	Compound Not Detected.						
	39	Chloroform	83	Compound Not Detected.						
	40	Tetrahydrofuran	42	Compound Not Detected.						
	41	1,1,1-Trichloroethane	97	Compound Not Detected.						
	42	1,2-Dichloroethane	62	Compound Not Detected.						
	43	Benzene	78	Compound Not Detected.						
	44	Carbon tetrachloride	117	Compound Not Detected.						
	45	Cyclohexane	56	Compound Not Detected.						
	46	Tert Amyl Methyl Ether	73	Compound Not Detected.						
*	47	1,4-Difluorobenzene	114	5.597	5.610	(1.000)	1368126	10.0000		
	48	2,2,4-Trimethylpentane	57	Compound Not Detected.						
	49	Heptane	43	Compound Not Detected.						
	50	1,2-Dichloropropane	63	Compound Not Detected.						
	51	Trichloroethene	130	Compound Not Detected.						
	52	Methyl methacrylate	69	Compound Not Detected.						
	53	1,4-Dioxane	88	Compound Not Detected.						
	54	Bromodichloromethane	83	Compound Not Detected.						
	55	Methylcyclohexane	98	Compound Not Detected.						
	56	Methyl Isobutyl Ketone	43	Compound Not Detected.						
	57	cis-1,3-Dichloropropene	75	Compound Not Detected.						
	58	trans-1,3-Dichloropropene	75	Compound Not Detected.						
$	59	Toluene-d8 (S)	98	7.069	7.076	(1.263)	1167923	9.53788	9.54	
	60	1,1,2-Trichloroethane	97	Compound Not Detected.						
	61	Toluene	91	Compound Not Detected.						
	62	Methyl Butyl Ketone	43	Compound Not Detected.						
	63	n-Octane	43	Compound Not Detected.						
	64	Dibromochloromethane	129	Compound Not Detected.						
	65	1,2-Dibromoethane	107	Compound Not Detected.						
	66	Tetrachloroethene	166	Compound Not Detected.						
*	67	Chlorobenzene - d5	117	8.639	8.645	(1.000)	883486	10.0000		
	68	Chlorobenzene	112	Compound Not Detected.						
	69	Ethyl Benzene	91	Compound Not Detected.						
	70	m&p-Xylene	91	Compound Not Detected.						
	71	n-Nonane	43	Compound Not Detected.						
	72	Bromoform	173	Compound Not Detected.						
	73	Styrene	104	Compound Not Detected.						
	74	o-Xylene	91	Compound Not Detected.						
	75	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	76	Isopropylbenzene	105	Compound Not Detected.						
	77	N-Propylbenzene	91	Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Report Date: 07-Mar-2017 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	Compound Not Detected.					
79	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
80	n-Decane	57	Compound Not Detected.					
81	Tert-Butyl Benzene	119	Compound Not Detected.					
82	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
83	1,3-Dichlorobenzene	146	Compound Not Detected.					
84	Sec- Butylbenzene	105	Compound Not Detected.					
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.851	11.854	(1.372)	448752	9.22063	9.22
86	Benzyl Chloride	91	Compound Not Detected.					
87	1,4-Dichlorobenzene	146	Compound Not Detected.					
88	p-Isopropyltoluene	119	Compound Not Detected.					
89	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
90	1,2-Dichlorobenzene	146	Compound Not Detected.					
91	N-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
93	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
94	Naphthalene	128	Compound Not Detected.					
95	Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Report Date: 07-Mar-2017 15:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06409_27839.D
Lab Smp Id: 2529703
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

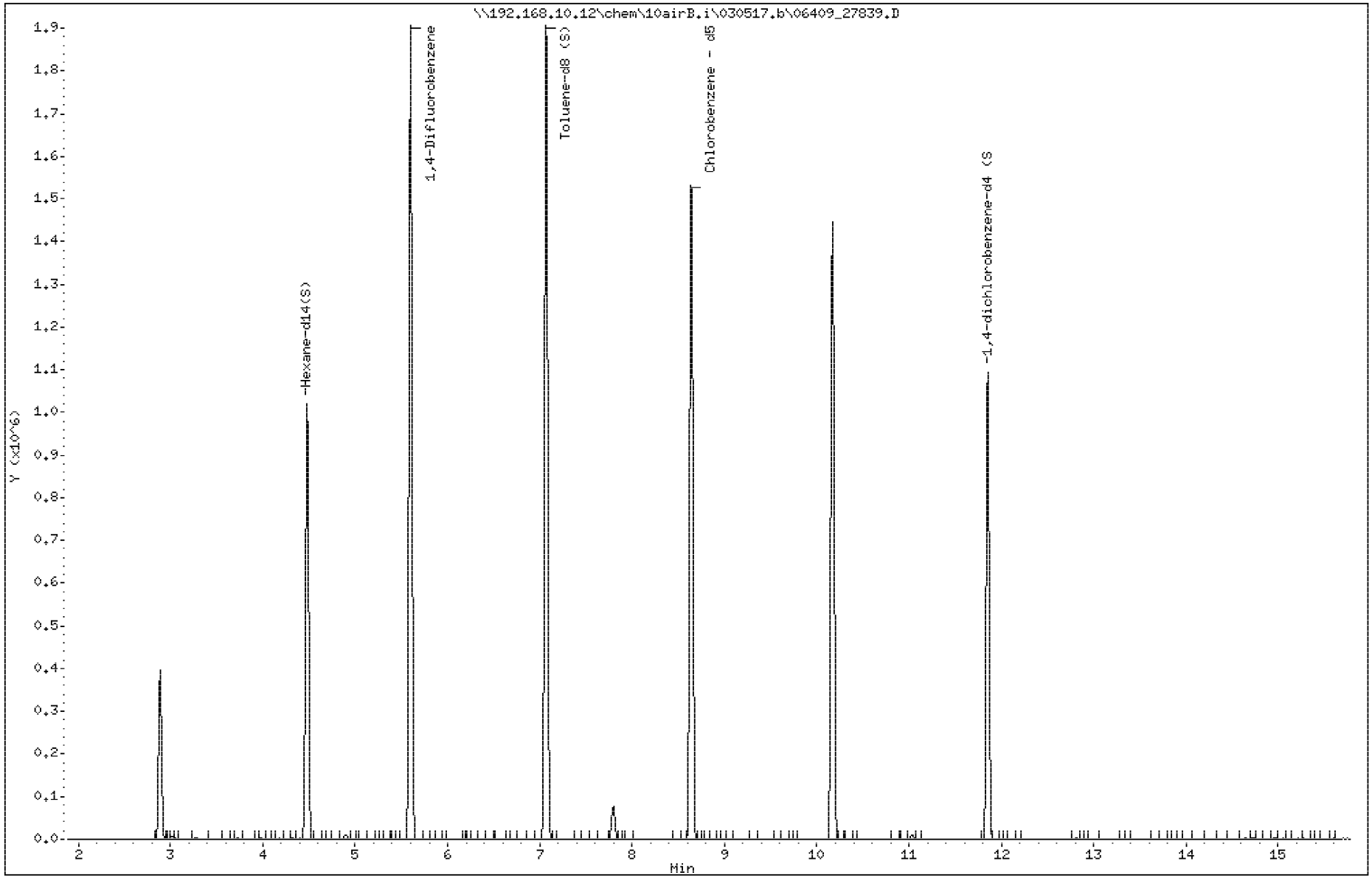
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1368126	-3.25
67 Chlorobenzene - d	951026	570616	1331436	883486	-7.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.60	-0.23
67 Chlorobenzene - d	8.65	8.32	8.98	8.64	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06409_27839.D
Date : 05-MAR-2017 13:11
Client ID:
Sample Info:

Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airB.i\030517.b/06409.D
Injection Date: 05-MAR-2017 13:11
Instrument: 10airB.i
Lab Sample ID: CERT
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Report Date: 05-Mar-2017 14:39

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Lab Smp Id: 2529400
Inj Date : 04-MAR-2017 06:56
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27836
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Meth Date : 05-Mar-2017 14:34 mlytle Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.944	2.944	(0.525)	77827	7.05429	7.05
2	1,1-Difluoroethane	65	3.018	3.018	(0.538)	83759	9.49529	9.50
3	Chlorodifluoromethane	67	3.028	3.028	(0.539)	41308	9.76930	9.77
4	Propylene	41	3.028	3.028	(0.539)	98379	8.76125	8.76
5	Dichlorodifluoromethane	85	3.060	3.060	(0.545)	411848	9.63088	9.63
6	Chloromethane	50	3.156	3.156	(0.562)	161953	9.36826	9.37
7	Dichlorotetrafluoroethane	85	3.166	3.166	(0.564)	376709	9.01815	9.02
8	Vinyl chloride	62	3.234	3.234	(0.576)	144246	9.65901	9.66
9	1,3-Butadiene	54	3.275	3.275	(0.584)	108227	9.95061	9.95
10	Bromomethane	94	3.414	3.414	(0.608)	130647	9.45653	9.46
11	Chloroethane	64	3.465	3.465	(0.617)	64683	9.41926	9.42
12	Ethanol	45	3.545	3.545	(0.632)	242585	43.8785	43.9
13	Vinyl Bromide	106	3.581	3.581	(0.638)	136561	9.54294	9.54
14	Isopentane	43	3.600	3.600	(0.641)	139439	9.18981	9.19
15	Freon 123	83	3.603	3.603	(0.642)	137632	8.64887	8.65
16	Trichlorofluoromethane	101	3.674	3.674	(0.655)	371295	9.00104	9.00
17	Acrolein	56	3.684	3.684	(0.656)	133867	23.9262	23.9
18	Acetone	43	3.722	3.722	(0.663)	1042800	43.6809	43.7
19	Isopropyl Alcohol	45	3.767	3.767	(0.671)	1102178	45.2690	45.3
20	1,1-Dichloroethene	61	3.909	3.909	(0.696)	226399	9.43704	9.44
21	Acrylonitrile	53	3.928	3.928	(0.700)	276382	25.0547	25.1
22	Freon 113	101	3.951	3.951	(0.704)	282249	9.06095	9.06
23	Methyl Acetate	43	3.960	3.960	(0.706)	340359	9.36415	9.36

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Report Date: 05-Mar-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.957	3.957	(0.705)	724159	23.1371	23.1
	25 Methylene chloride	49	4.005	4.005	(0.714)	766863	45.5117	45.5
	26 Allyl Chloride	76	4.018	4.018	(0.716)	140500	23.9074	23.9
	27 Carbon Disulfide	76	4.127	4.127	(0.735)	329653	10.3882	10.4
	28 trans-1,2-dichloroethene	96	4.275	4.275	(0.762)	136180	10.1169	10.1
	29 Methyl Tert Butyl Ether	73	4.304	4.304	(0.767)	893308	23.2803	23.3
	30 Vinyl Acetate	43	4.391	4.391	(0.782)	380868	9.48893	9.49
	31 1,1-Dichloroethane	63	4.414	4.414	(0.786)	253309	9.66110	9.66
$	32 Hexane-d14(S)	66	4.491	4.491	(0.800)	479832	10.0236	10.0
	33 Methyl Ethyl Ketone	72	4.555	4.555	(0.812)	64430	9.06476	9.06
	34 n-Hexane	57	4.584	4.584	(0.817)	219059	9.13004	9.13(M)
	35 Di-isopropyl Ether	45	4.606	4.606	(0.821)	439725	9.44992	9.45
	36 Ethyl Acetate	43	4.716	4.716	(0.840)	289971	9.39033	9.39
	37 cis-1,2-Dichloroethene	96	4.725	4.725	(0.842)	150200	9.98718	9.99
	38 Ethyl Tert-Butyl Ether	59	4.828	4.828	(0.860)	1204728	24.7274	24.7
	39 Chloroform	83	4.841	4.841	(0.863)	320254	10.2740	10.3
	40 Tetrahydrofuran	42	4.992	4.992	(0.889)	152693	9.16441	9.16
	41 1,1,1-Trichloroethane	97	5.233	5.233	(0.932)	363443	9.91089	9.91
	42 1,2-Dichloroethane	62	5.240	5.240	(0.934)	266397	9.57622	9.58
	43 Benzene	78	5.468	5.468	(0.974)	470480	9.69559	9.70
	44 Carbon tetrachloride	117	5.484	5.484	(0.977)	385695	10.5241	10.5
	45 Cyclohexane	56	5.487	5.487	(0.978)	232400	9.56718	9.57
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.998)	427267	8.98553	8.99
*	47 1,4-Difluorobenzene	114	5.613	5.613	(1.000)	1504620	10.0000	
	48 2,2,4-Trimethylpentane	57	5.770	5.770	(1.028)	1807833	24.0529	24.1
	49 Heptane	43	5.893	5.893	(1.050)	259190	9.55917	9.56
	50 1,2-Dichloropropane	63	5.967	5.967	(1.063)	167859	9.54992	9.55
	51 Trichloroethene	130	5.989	5.989	(1.067)	239399	9.46974	9.47
	52 Methyl methacrylate	69	6.044	6.044	(1.077)	160249	9.74573	9.75
	53 1,4-Dioxane	88	6.066	6.066	(1.081)	108428	9.56398	9.56
	54 Bromodichloromethane	83	6.085	6.085	(1.084)	358992	10.0217	10.0
	55 Methylcyclohexane	98	6.433	6.433	(1.146)	129952	9.49897	9.50
	56 Methyl Isobutyl Ketone	43	6.529	6.529	(1.163)	880588	23.7935	23.8
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	280260	9.28812	9.29
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	264547	9.53732	9.54
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1325166	9.84027	9.84
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	187856	9.30900	9.31
	61 Toluene	91	7.153	7.153	(1.274)	573557	9.43827	9.44
	62 Methyl Butyl Ketone	43	7.372	7.372	(0.853)	861770	26.8606	26.9
	63 n-Octane	43	7.584	7.584	(0.877)	335624	9.65961	9.66
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	377732	9.43571	9.44
	65 1,2-Dibromoethane	107	7.905	7.905	(0.914)	324949	9.91118	9.91
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	327281	9.27853	9.28
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	1015806	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	471527	9.35904	9.36
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	733341	9.81544	9.82
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1152570	19.6547	19.7
	71 n-Nonane	43	9.468	9.468	(1.095)	344156	11.3786	11.4
	72 Bromoform	173	9.478	9.478	(1.096)	366636	9.47972	9.48
	73 Styrene	104	9.507	9.507	(1.100)	464994	9.35381	9.35
	74 o-Xylene	91	9.581	9.581	(1.108)	584879	9.80370	9.80
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	359191	10.9264	10.9
	76 Isopropylbenzene	105	10.159	10.159	(1.175)	831318	9.84561	9.85
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	963936	10.0902	10.1

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Report Date: 05-Mar-2017 14:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	855640	9.85625	9.86
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	726458	10.1516	10.2
80	n-Decane	57	11.378	11.378	(2.027)	377800	9.83266	9.83
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	749925	11.1179	11.1
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	683225	11.3225	11.3
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	439900	10.2587	10.3
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	951115	11.2538	11.3
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	641034	11.4558	11.5(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	454614	9.94028	9.94(M)
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	437710	11.0730	11.1
88	p-Isopropyltoluene	119	11.986	11.986	(1.386)	813938	10.0874	10.1
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	661455	11.1029	11.1
90	1,2-Dichlorobenzene	146	12.278	12.278	(1.420)	407802	9.77420	9.77
91	N-Butylbenzene	91	12.458	12.458	(1.441)	643158	10.3839	10.4
92	1,2-Dibromo-3-Chloropropane	157	12.905	12.905	(1.493)	167109	10.3208	10.3
93	1,2,4-Trichlorobenzene	180	14.031	14.031	(1.623)	163806	9.56191	9.56
94	Naphthalene	128	14.156	14.156	(1.637)	378936	9.26310	9.26
95	Hexachlorobutadiene	225	14.391	14.391	(1.665)	170999	9.70109	9.70

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Report Date: 05-Mar-2017 14:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06302_27836.D
Lab Smp Id: 2529400
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m
Misc Info: 27836

Calibration Date: 04-MAR-2017
Calibration Time: 06:56
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

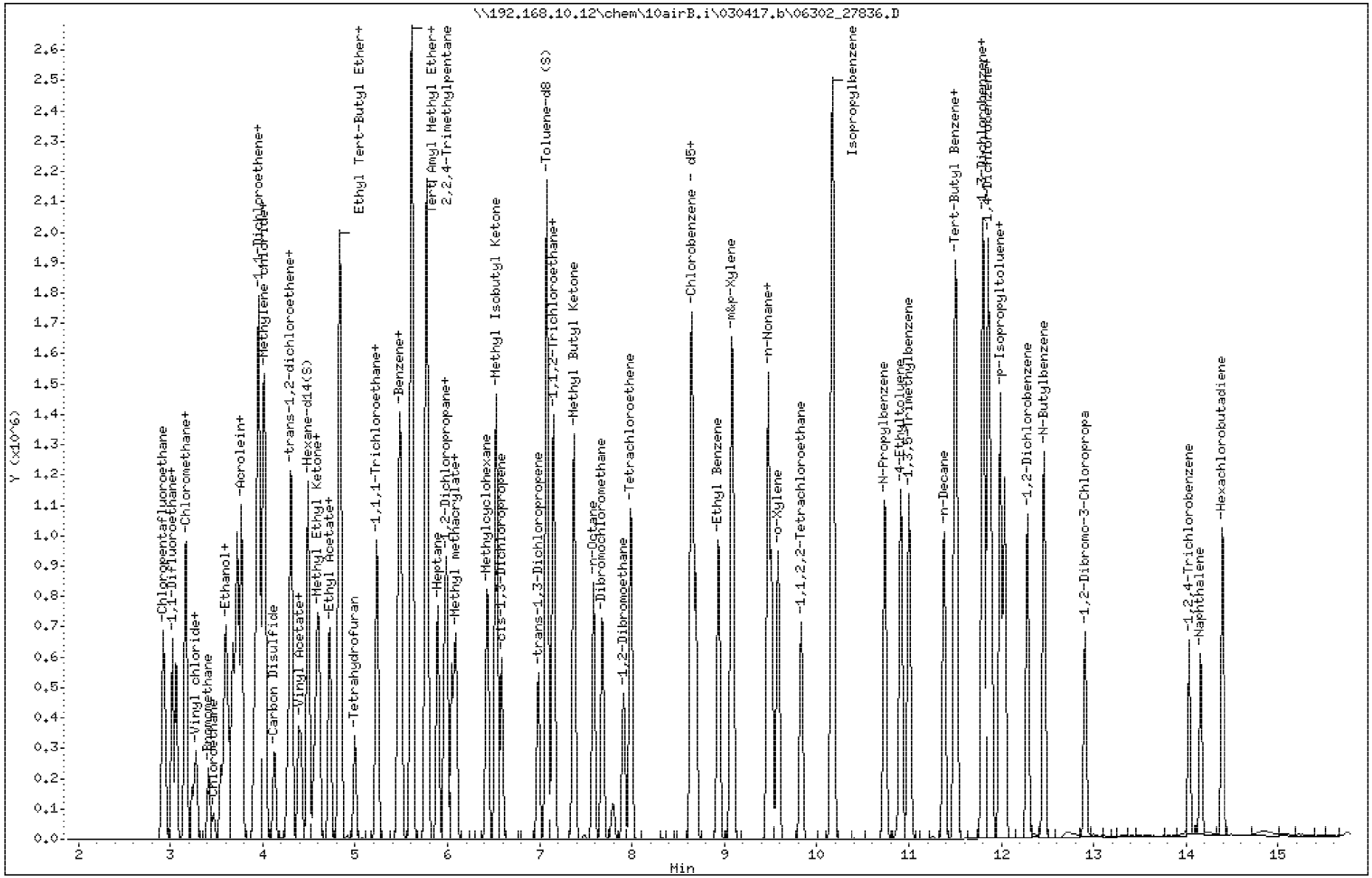
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1504620	6.40
67 Chlorobenzene - d	951026	570616	1331436	1015806	6.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

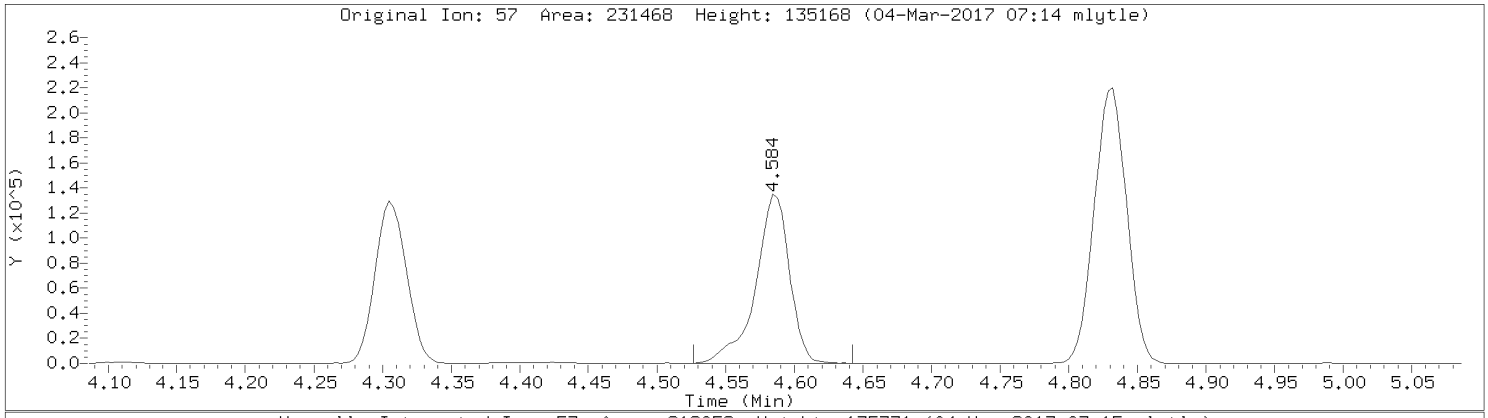
Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302_27836.D
Date : 04-MAR-2017 06:56
Client ID:
Sample Info:

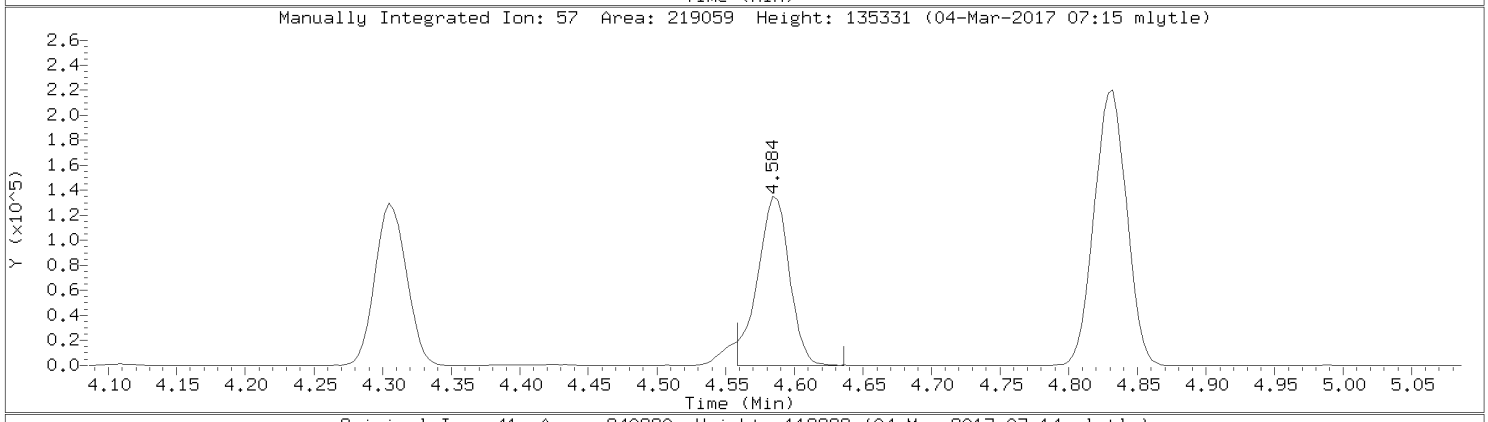
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

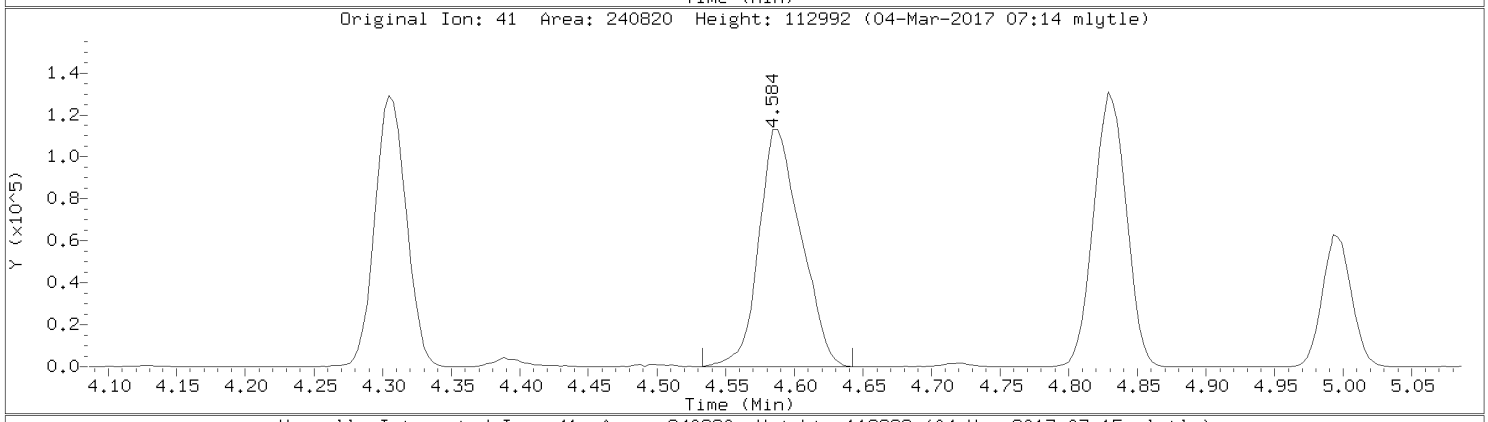


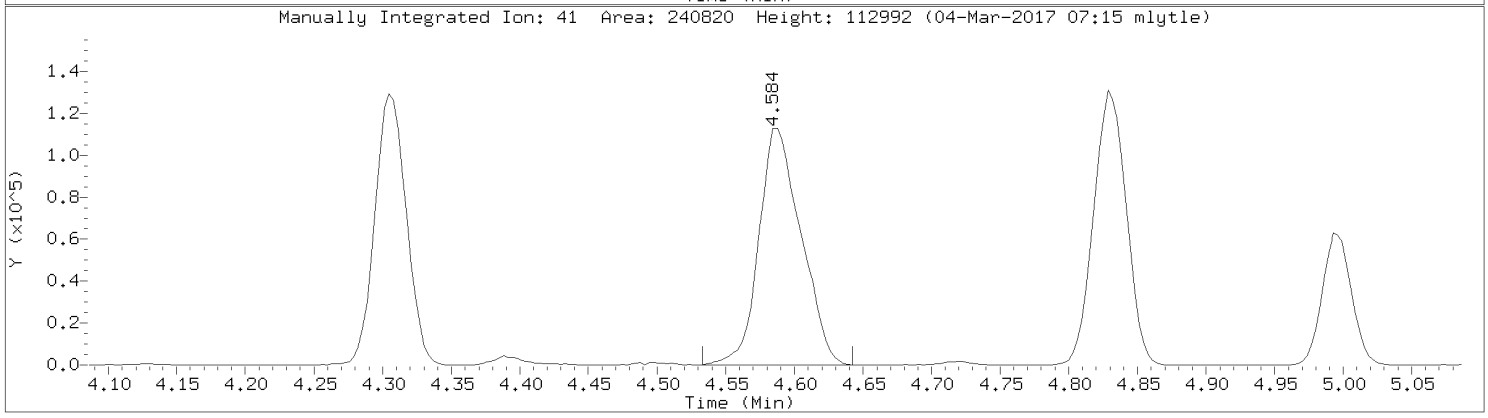
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

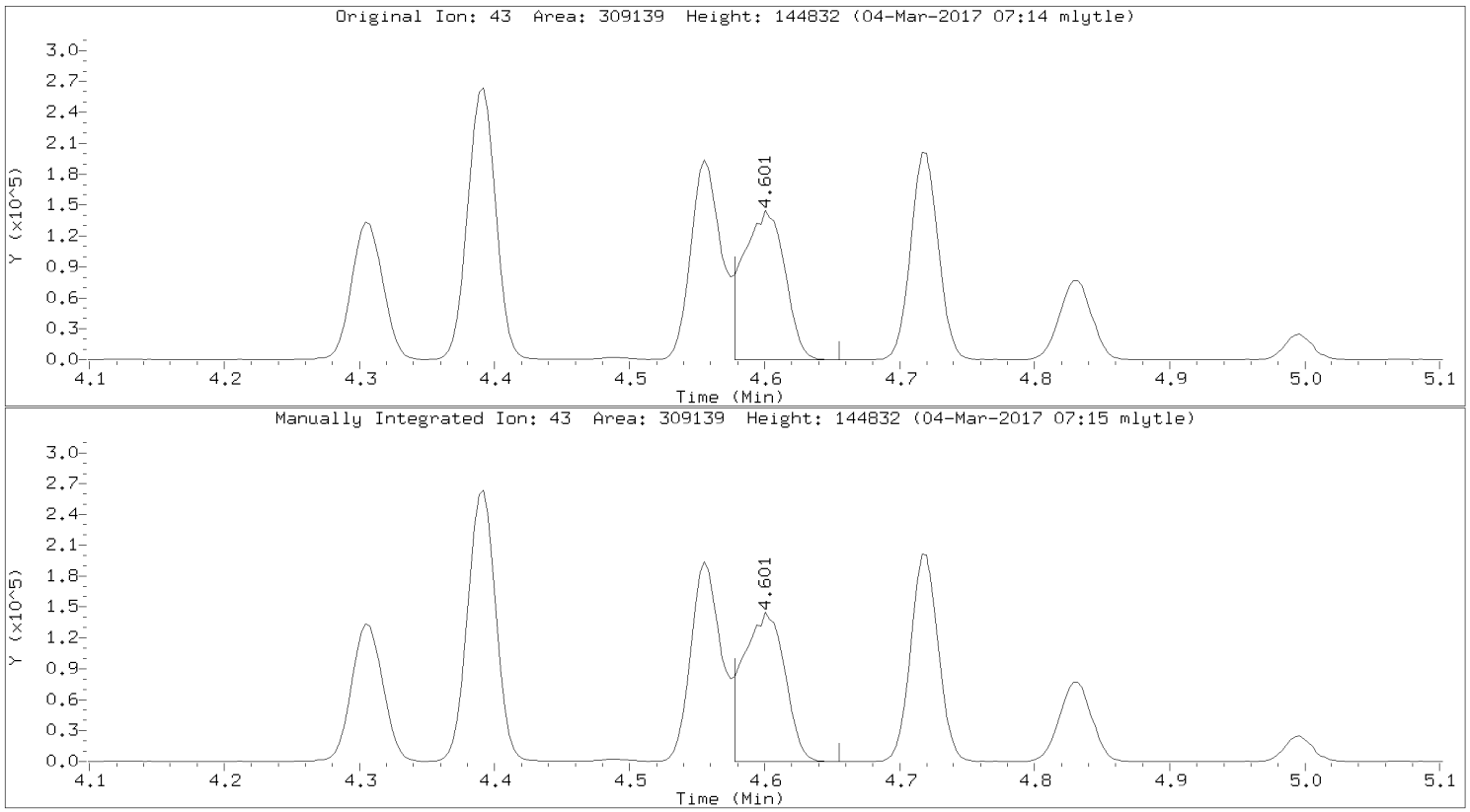






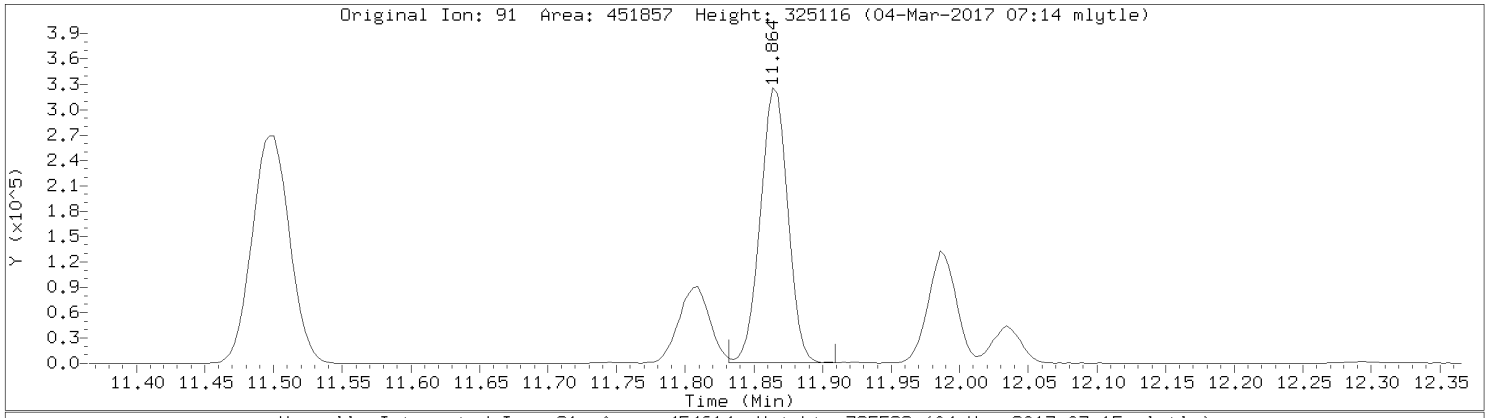


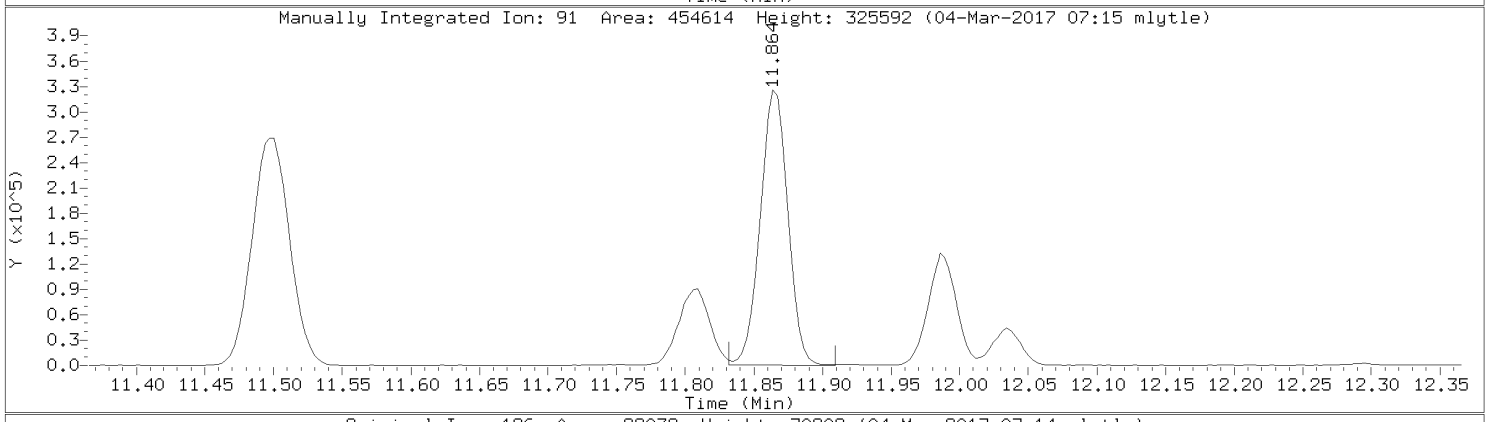
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

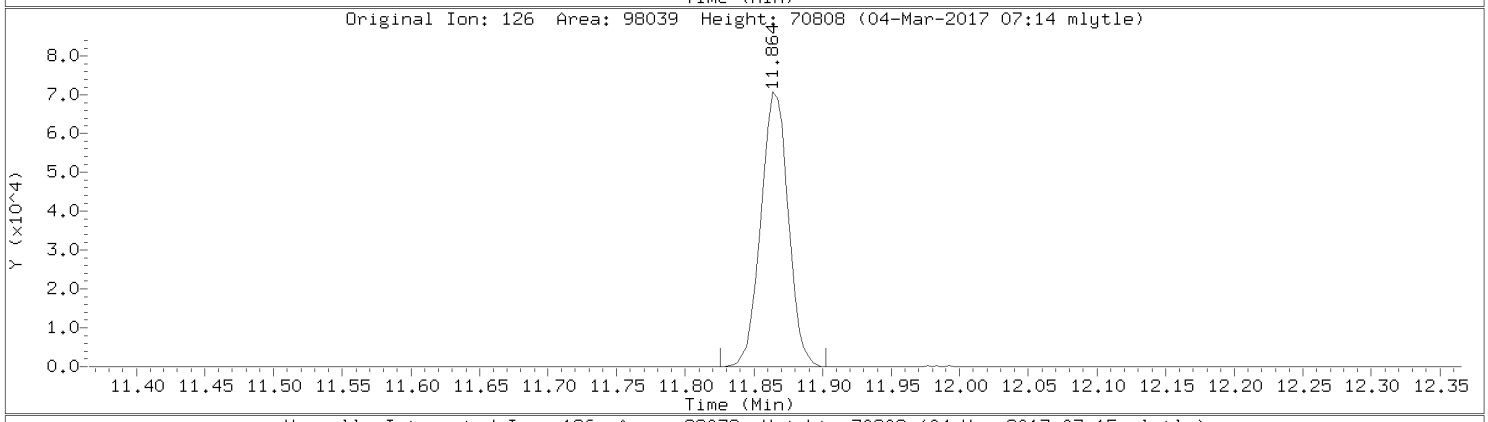


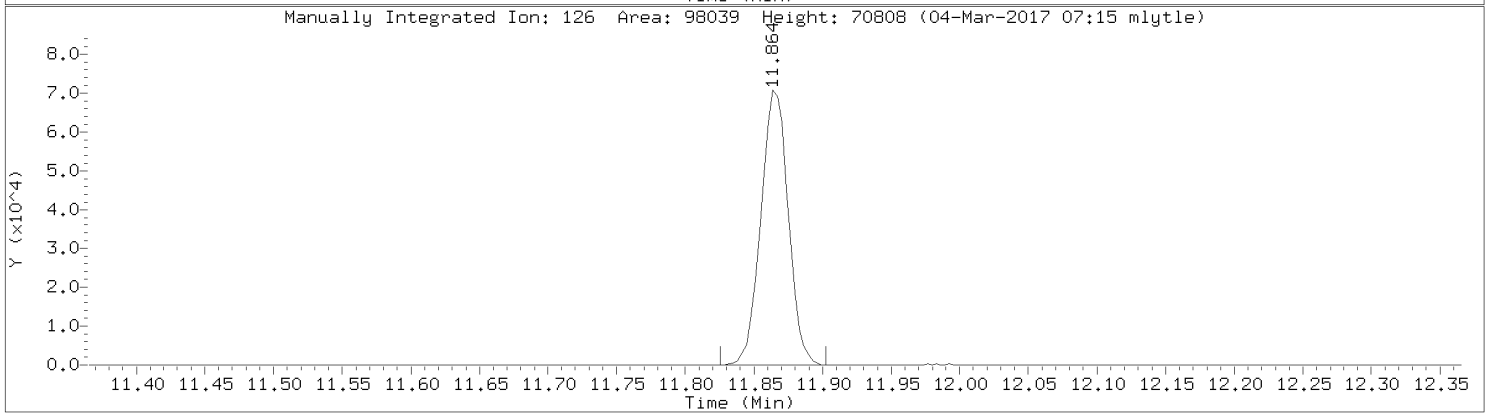
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: Benzyl Chloride
CAS Number: 100-44-7



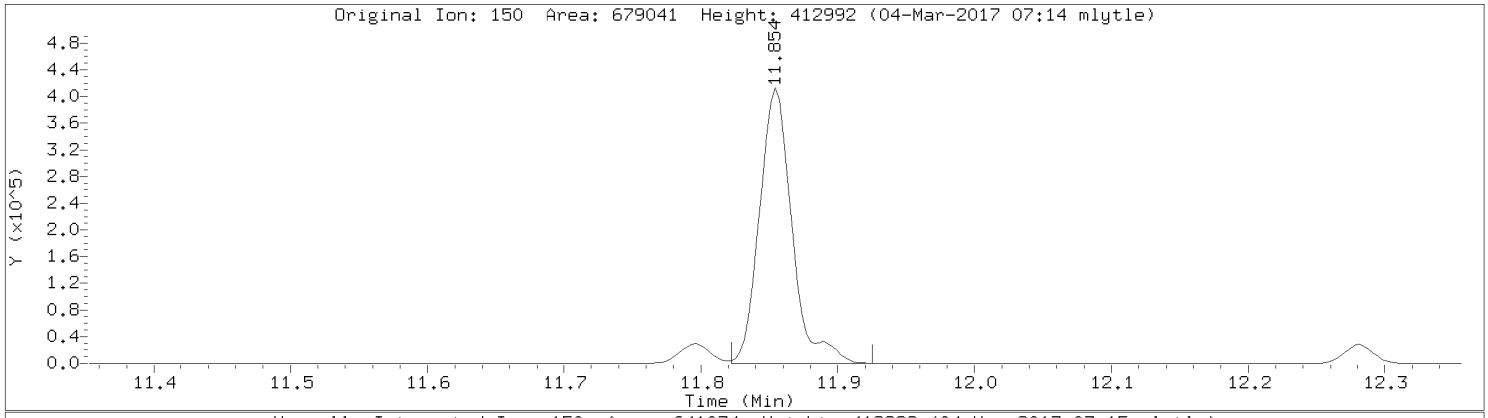


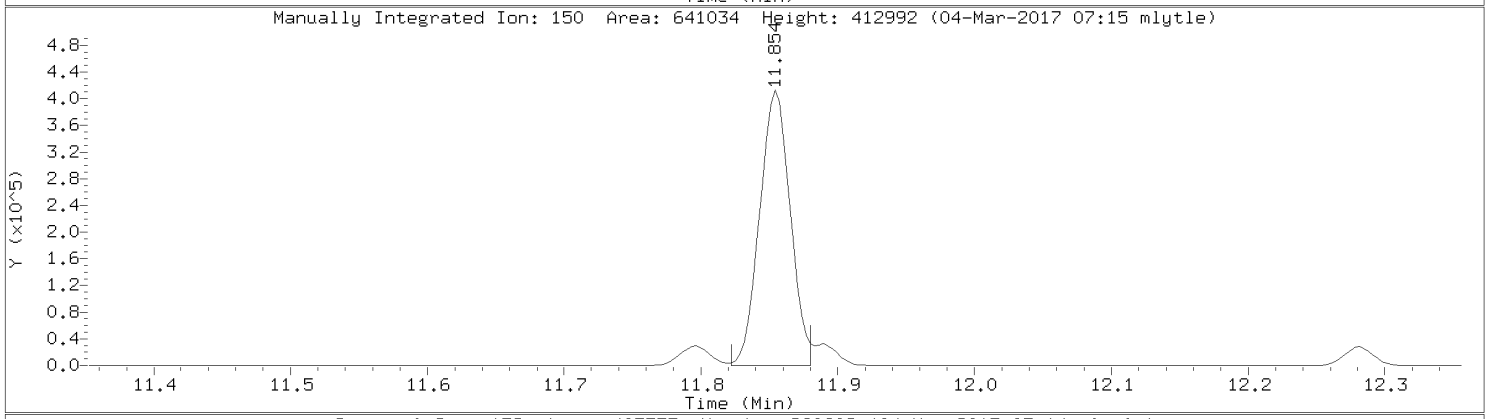


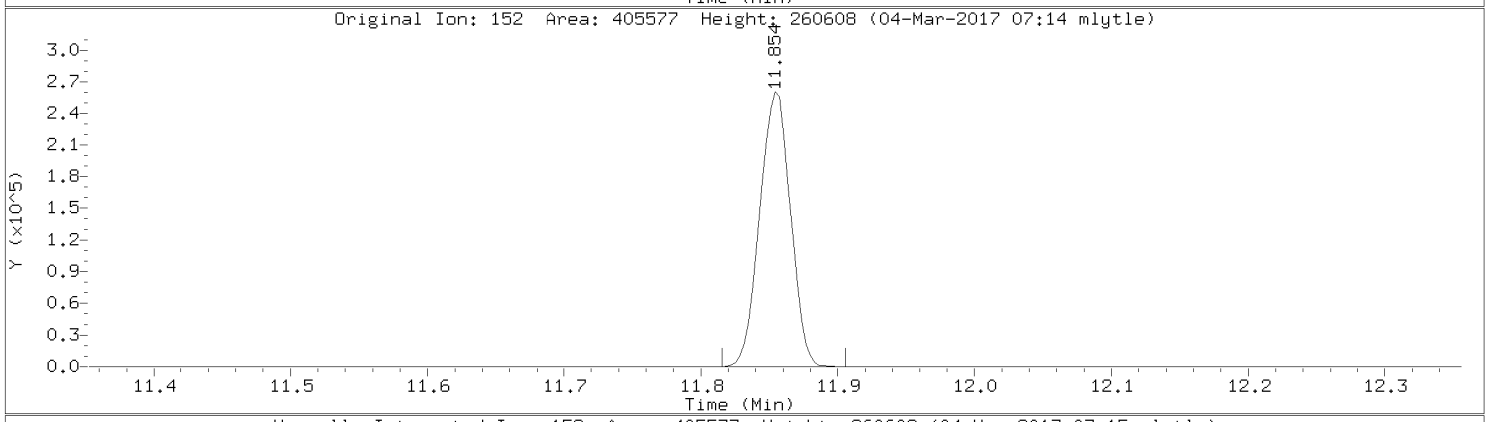


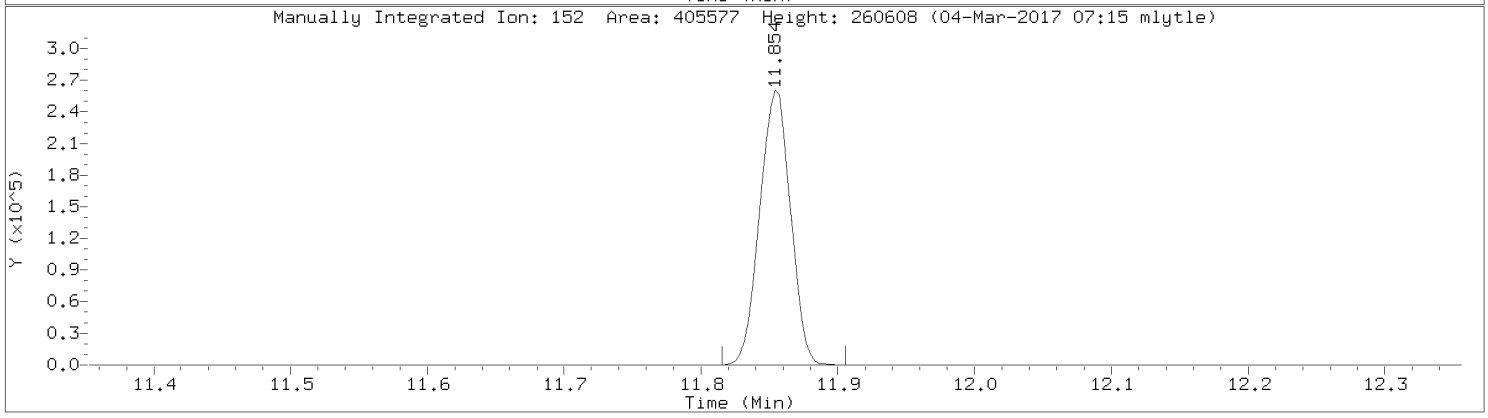
Data File: \\192.168.10.12\chem\10airB.i\030417.b/06302.D
Injection Date: 04-MAR-2017 06:56
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Report Date: 07-Mar-2017 15:01

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Lab Smp Id: 2529704
Inj Date : 05-MAR-2017 09:36
Operator : MJL Inst ID: 10airB.i
Smp Info :
Misc Info : 27839
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Meth Date : 06-Mar-2017 10:50 nkoller Quant Type: ISTD
Cal Date : 02-MAR-2017 14:08 Cal File: 06115.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS5

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Chloropentafluoroethane	85	2.906	2.906	(0.518)	61853	5.95094	5.95
2	1,1-Difluoroethane	65	2.979	2.979	(0.531)	80881	9.70113	9.70
3	Chlorodifluoromethane	67	2.989	2.989	(0.533)	39537	9.89362	9.89
4	Propylene	41	2.989	2.989	(0.533)	93322	8.79567	8.80
5	Dichlorodifluoromethane	85	3.021	3.021	(0.539)	396554	9.81287	9.81
6	Chloromethane	50	3.124	3.124	(0.557)	152709	9.34617	9.35
7	Dichlorotetrafluoroethane	85	3.134	3.134	(0.559)	363783	9.21411	9.21
8	Vinyl chloride	62	3.201	3.201	(0.571)	133643	9.46835	9.47
9	1,3-Butadiene	54	3.246	3.246	(0.579)	100207	9.74790	9.75
10	Bromomethane	94	3.381	3.381	(0.603)	122753	9.40077	9.40
11	Chloroethane	64	3.443	3.443	(0.614)	58565	9.02327	9.02
12	Ethanol	45	3.542	3.542	(0.631)	227246	43.4894	43.5
13	Vinyl Bromide	106	3.561	3.561	(0.635)	127636	9.43686	9.44
14	Isopentane	43	3.578	3.578	(0.638)	138770	9.68376	9.68
15	Freon 123	83	3.587	3.587	(0.639)	116046	7.70672	7.71
16	Trichlorofluoromethane	101	3.655	3.655	(0.652)	358608	9.19799	9.20
17	Acrolein	56	3.674	3.674	(0.655)	124215	23.5005	23.5
18	Acetone	43	3.713	3.713	(0.662)	965079	42.7714	42.8
19	Isopropyl Alcohol	45	3.764	3.764	(0.671)	1050352	45.6440	45.6
20	1,1-Dichloroethene	61	3.896	3.896	(0.695)	215505	9.50425	9.50
21	Acrylonitrile	53	3.925	3.925	(0.700)	256889	24.6390	24.6
22	Freon 113	101	3.934	3.934	(0.701)	277630	9.42989	9.43
23	Methyl Acetate	43	3.951	3.951	(0.704)	328938	9.57513	9.58

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Report Date: 07-Mar-2017 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	24 Tert Butyl Alcohol (TBA)	59	3.951	3.951	(0.704)	716691	24.2273	24.2
	25 Methylene chloride	49	3.992	3.992	(0.712)	737643	46.3180	46.3
	26 Allyl Chloride	76	4.005	4.005	(0.714)	134194	24.1661	24.2
	27 Carbon Disulfide	76	4.108	4.108	(0.732)	318108	10.6061	10.6
	28 trans-1,2-dichloroethene	96	4.269	4.269	(0.761)	132198	10.3911	10.4
	29 Methyl Tert Butyl Ether	73	4.301	4.301	(0.767)	867421	23.9175	23.9
	30 Vinyl Acetate	43	4.385	4.385	(0.782)	357151	9.41597	9.42
	31 1,1-Dichloroethane	63	4.407	4.407	(0.786)	242193	9.77320	9.77
$	32 Hexane-d14(S)	66	4.481	4.481	(0.799)	445940	9.85626	9.86
	33 Methyl Ethyl Ketone	72	4.552	4.552	(0.811)	62672	9.32700	9.33
	34 n-Hexane	57	4.578	4.578	(0.816)	219567	9.68228	9.68(M)
	35 Di-isopropyl Ether	45	4.600	4.600	(0.820)	422031	9.59601	9.60
	36 Ethyl Acetate	43	4.713	4.713	(0.840)	280134	9.59824	9.60
	37 cis-1,2-Dichloroethene	96	4.722	4.722	(0.842)	144620	10.1742	10.2
	38 Ethyl Tert-Butyl Ether	59	4.825	4.825	(0.860)	1045459	22.7036	22.7
	39 Chloroform	83	4.838	4.838	(0.862)	282025	9.57266	9.57
	40 Tetrahydrofuran	42	4.989	4.989	(0.889)	146640	9.31188	9.31
	41 1,1,1-Trichloroethane	97	5.227	5.227	(0.932)	349436	10.0819	10.1
	42 1,2-Dichloroethane	62	5.233	5.233	(0.933)	255013	9.69898	9.70
	43 Benzene	78	5.465	5.465	(0.974)	456629	9.95625	9.96
	44 Carbon tetrachloride	117	5.484	5.484	(0.978)	371966	10.7385	10.7
	45 Cyclohexane	56	5.484	5.484	(0.978)	221130	9.63152	9.63
	46 Tert Amyl Methyl Ether	73	5.603	5.603	(0.999)	422988	9.42662	9.43
*	47 1,4-Difluorobenzene	114	5.610	5.610	(1.000)	1422092	10.0000	
	48 2,2,4-Trimethylpentane	57	5.767	5.767	(1.028)	1720030	24.2128	24.2
	49 Heptane	43	5.889	5.889	(1.050)	244948	9.55818	9.56
	50 1,2-Dichloropropane	63	5.963	5.963	(1.063)	160000	9.63106	9.63
	51 Trichloroethene	130	5.986	5.986	(1.067)	231513	9.68925	9.69
	52 Methyl methacrylate	69	6.040	6.040	(1.077)	150776	9.70176	9.70
	53 1,4-Dioxane	88	6.063	6.063	(1.081)	103802	9.68729	9.69
	54 Bromodichloromethane	83	6.082	6.082	(1.084)	336521	9.93960	9.94
	55 Methylcyclohexane	98	6.430	6.430	(1.146)	122127	9.44647	9.45
	56 Methyl Isobutyl Ketone	43	6.526	6.526	(1.163)	825159	23.5897	23.6
	57 cis-1,3-Dichloropropene	75	6.587	6.587	(1.174)	266697	9.35091	9.35
	58 trans-1,3-Dichloropropene	75	6.986	6.986	(1.245)	250708	9.56218	9.56
$	59 Toluene-d8 (S)	98	7.076	7.076	(1.261)	1194198	9.38236	9.38
	60 1,1,2-Trichloroethane	97	7.143	7.143	(1.273)	179305	9.40090	9.40
	61 Toluene	91	7.153	7.153	(1.275)	549623	9.56930	9.57
	62 Methyl Butyl Ketone	43	7.368	7.368	(0.852)	807218	26.2022	26.2
	63 n-Octane	43	7.584	7.584	(0.877)	320189	9.59697	9.60
	64 Dibromochloromethane	129	7.677	7.677	(0.888)	376841	9.80152	9.80
	65 1,2-Dibromoethane	107	7.909	7.909	(0.915)	325489	10.3387	10.3
	66 Tetrachloroethene	166	7.986	7.986	(0.924)	336043	9.92144	9.92
*	67 Chlorobenzene - d5	117	8.645	8.645	(1.000)	975415	10.0000	
	68 Chlorobenzene	112	8.687	8.687	(1.005)	482830	9.98023	9.98
	69 Ethyl Benzene	91	8.934	8.934	(1.033)	743401	10.3621	10.4
	70 m&p-Xylene	91	9.082	9.082	(1.051)	1157009	20.5474	20.5
	71 n-Nonane	43	9.468	9.468	(1.095)	332289	11.4412	11.4
	72 Bromoform	173	9.481	9.481	(1.097)	365698	9.85964	9.86
	73 Styrene	104	9.507	9.507	(1.100)	464058	9.73387	9.73
	74 o-Xylene	91	9.581	9.581	(1.108)	584045	10.1951	10.2
	75 1,1,2,2-Tetrachloroethane	83	9.828	9.828	(1.137)	346022	10.9616	11.0
	76 Isopropylbenzene	105	10.162	10.162	(1.176)	821136	10.1277	10.1
	77 N-Propylbenzene	91	10.738	10.738	(1.242)	932866	10.1691	10.2

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Report Date: 07-Mar-2017 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
78	4-Ethyltoluene	105	10.912	10.912	(1.262)	826397	9.91522	9.92
79	1,3,5-Trimethylbenzene	105	11.002	11.002	(1.273)	707961	10.3025	10.3
80	n-Decane	57	11.378	11.378	(2.028)	365391	10.0561	10.1
81	Tert-Butyl Benzene	119	11.497	11.497	(1.330)	729576	11.2641	11.3
82	1,2,4-Trimethylbenzene	105	11.513	11.513	(1.332)	666942	11.5103	11.5
83	1,3-Dichlorobenzene	146	11.796	11.796	(1.364)	430925	10.4657	10.5
84	Sec- Butylbenzene	105	11.806	11.806	(1.366)	934339	11.5131	11.5
$ 85	1,4-dichlorobenzene-d4 (S)	150	11.854	11.854	(1.371)	607225	11.3009	11.3(M)
86	Benzyl Chloride	91	11.863	11.863	(1.372)	443390	10.0916	10.1
87	1,4-Dichlorobenzene	146	11.889	11.889	(1.375)	427376	11.2592	11.3
88	p-Isopropyltoluene	119	11.989	11.989	(1.387)	800227	10.3283	10.3
89	1,2,3-Trimethylbenzene	105	12.034	12.034	(1.392)	650323	11.3681	11.4
90	1,2-Dichlorobenzene	146	12.281	12.281	(1.421)	401062	10.0162	10.0
91	N-Butylbenzene	91	12.461	12.461	(1.441)	625873	10.5236	10.5
92	1,2-Dibromo-3-Chloropropane	157	12.908	12.908	(1.493)	160243	10.3069	10.3
93	1,2,4-Trichlorobenzene	180	14.034	14.034	(1.623)	165012	9.99354	9.99
94	Naphthalene	128	14.169	14.169	(1.639)	379174	9.63840	9.64
95	Hexachlorobutadiene	225	14.413	14.413	(1.667)	178756	10.5611	10.6

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Report Date: 07-Mar-2017 15:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airB.i
Lab File ID: 06402_27839.D
Lab Smp Id: 2529704
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m
Misc Info: 27839

Calibration Date: 05-MAR-2017
Calibration Time: 09:36
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

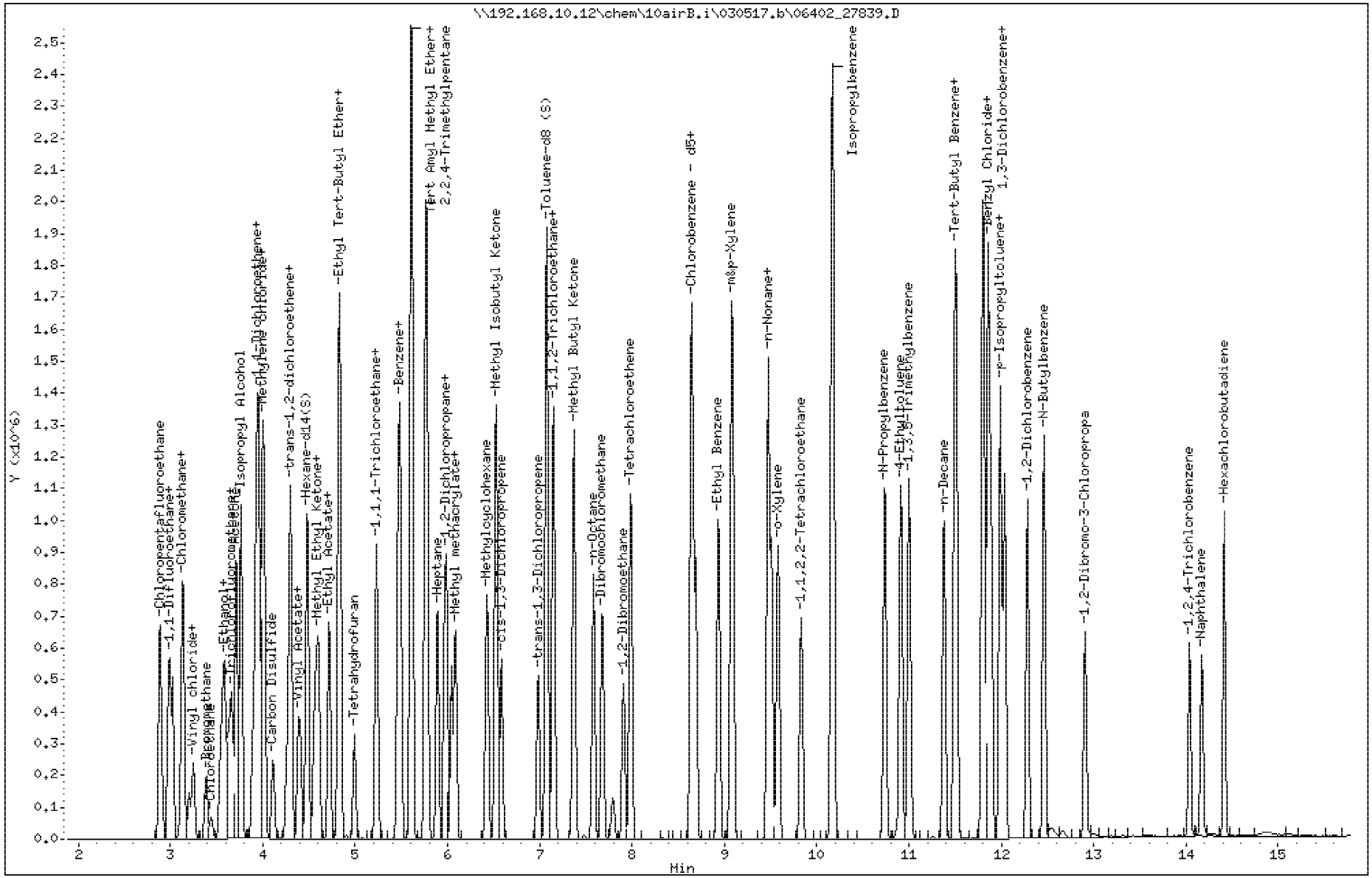
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	1414114	848468	1979760	1422092	0.56
67 Chlorobenzene - d	951026	570616	1331436	975415	2.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 1,4-Difluorobenze	5.61	5.28	5.94	5.61	0.00
67 Chlorobenzene - d	8.65	8.32	8.98	8.65	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

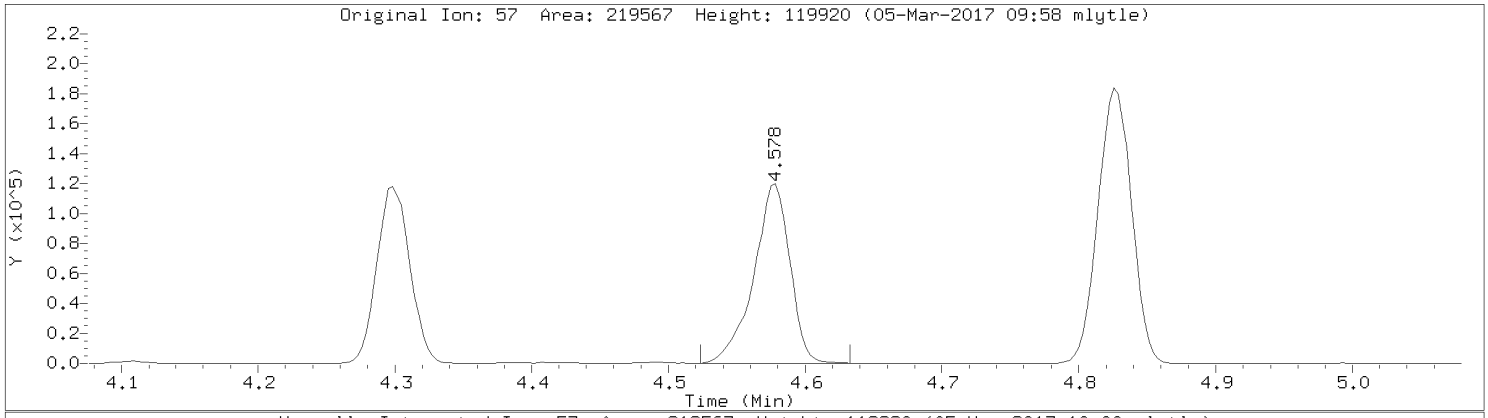
Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402_27839.D
Date : 05-MAR-2017 09:36
Client ID:
Sample Info:

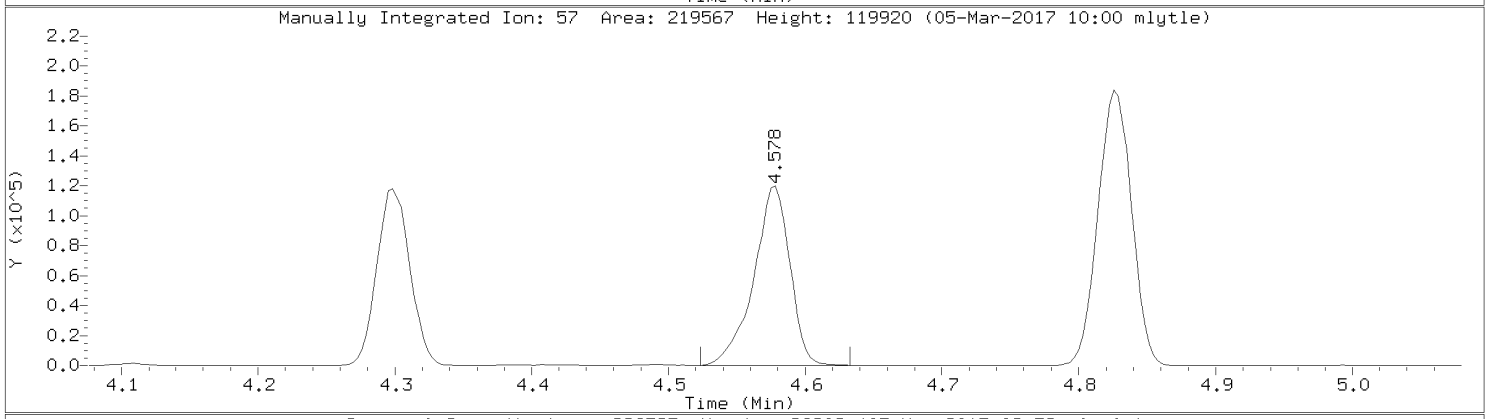
Instrument: 10airB.i
Operator: MJL
Column phase: J&W DB-5
Column diameter: 0.32

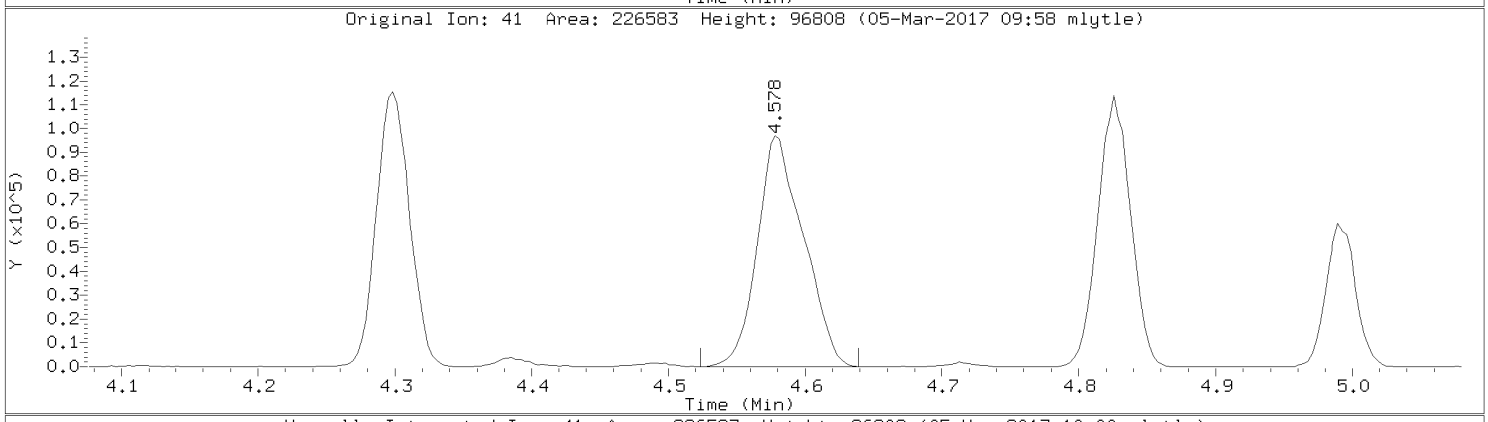


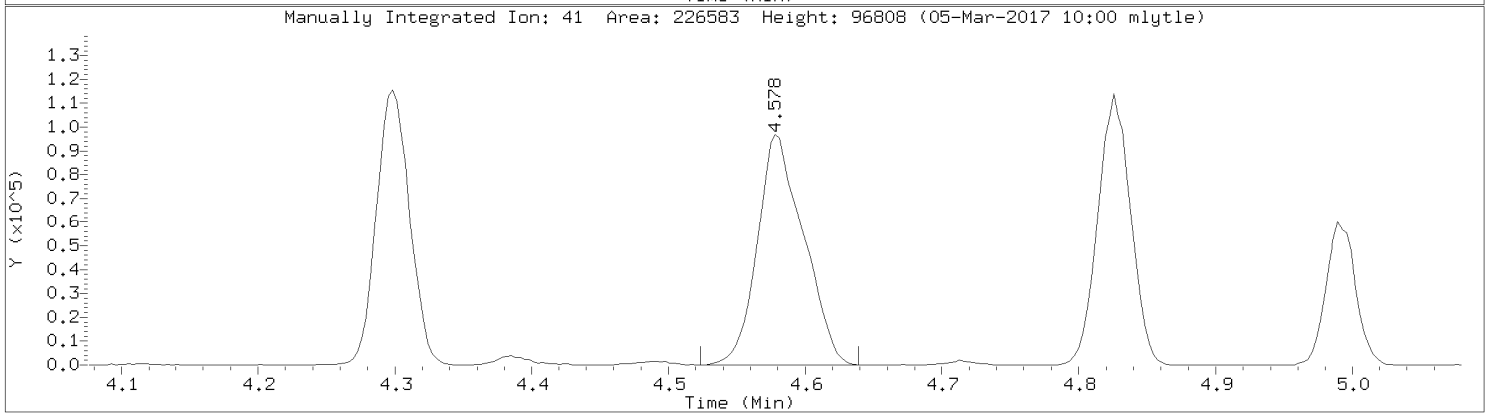
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: n-Hexane
CAS Number: 110-54-3

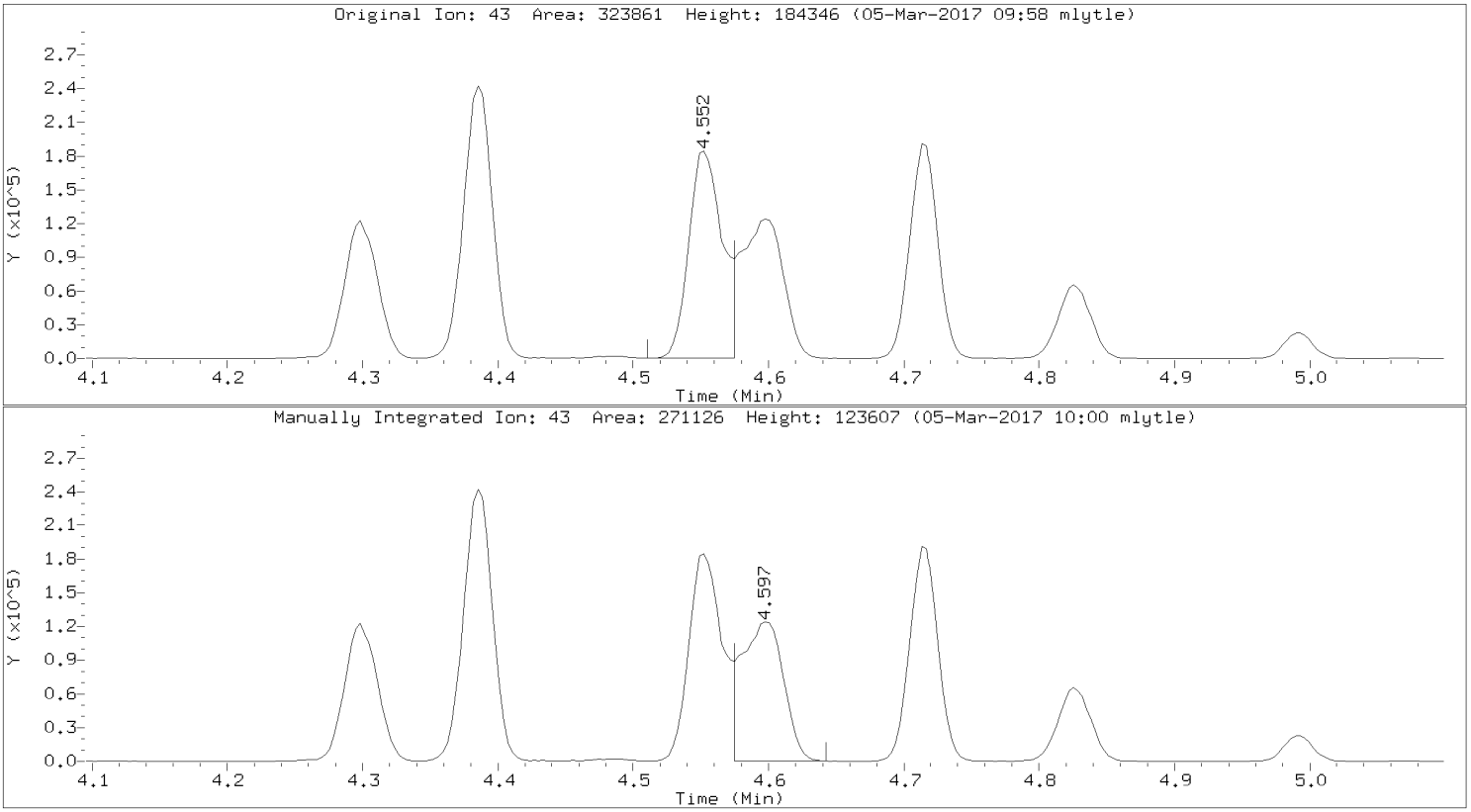






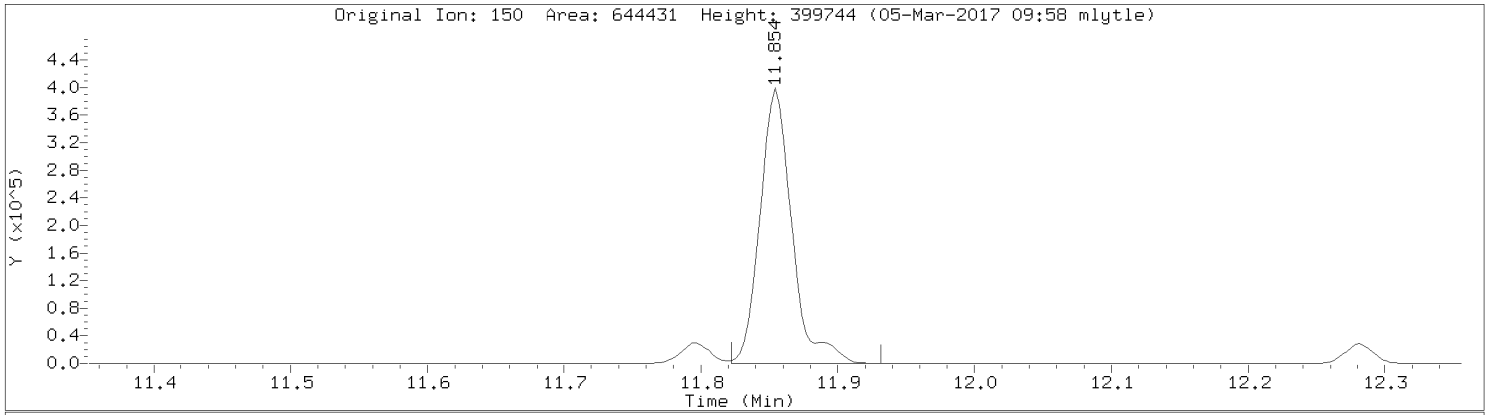


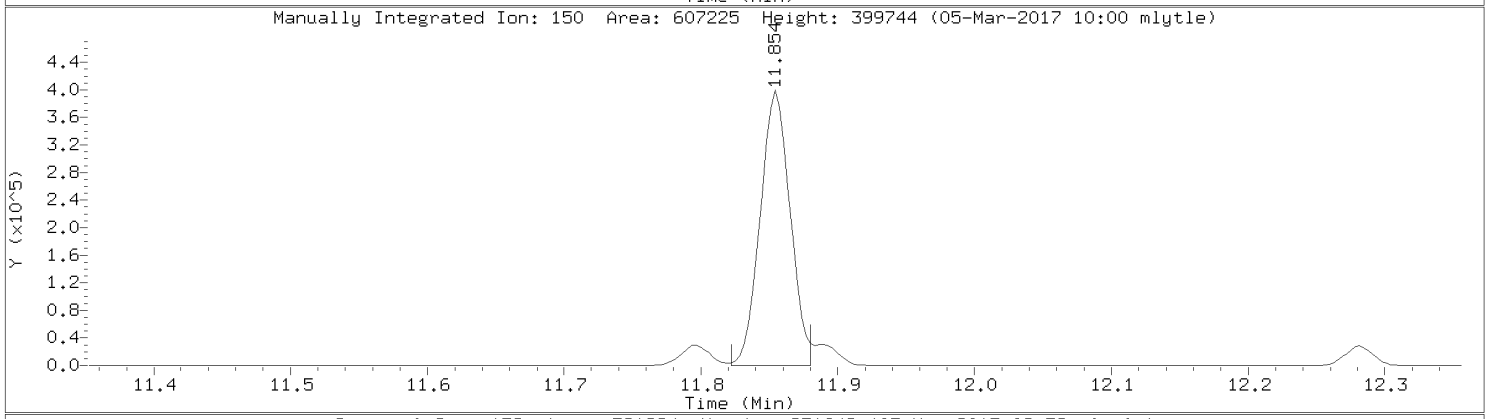
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

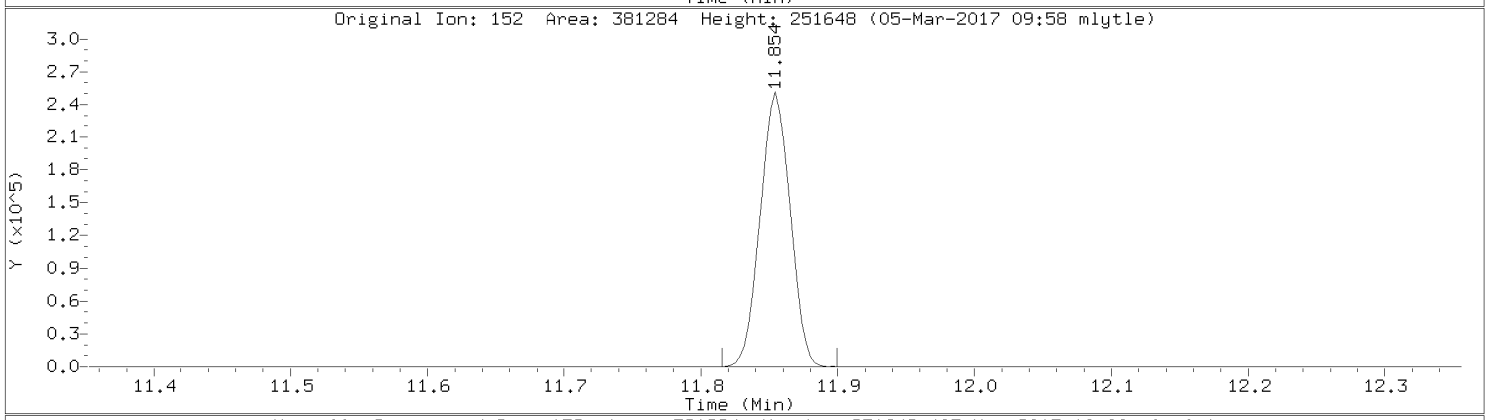


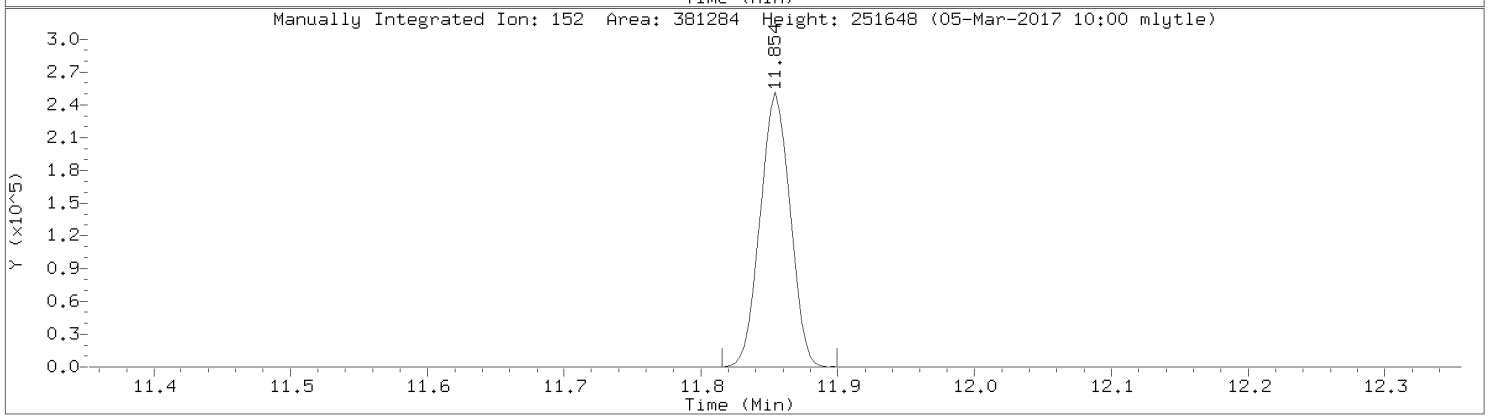
Data File: \\192.168.10.12\chem\10airB.i\030517.b/06402.D
Injection Date: 05-MAR-2017 09:36
Instrument: 10airB.i
Lab Sample ID: CCV

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:









Equation 1: Concentration of each component in the flask (Static Dilution Technique, section 10.4.1. S-MN-A-013 rev. 19).

$$\text{Concentration}(\text{mg/L}) = \frac{(V_i)(d)}{V_f}$$

where:

V_i =Volume of liquid neat standard injected into the flask in mL;
d=Density of the liquid neat standard in mg/mL;
V_f =Volume of the flask in liters.

Caution: In the preparation of standards by this technique, make sure that the volume of neat standard injected into the flask does not result in an overpressure due to the higher partial pressure produced by the standard compared to the vapor pressure in the flask.

Equation 2: First determine the volume of the compound as a gas.

$$V = \frac{nRT}{P} \quad \text{where,} \quad n = \frac{(V_i)(d)}{M}$$

where,
V=Volume of injected compound at STP in liters;
n=Moles;
R=Gas constant (0.08206 L-atm/mole ^{o}K);
T=Ambient temperature in ^{o}K;
P=Ambient pressure in atm;
V_i=Volume of liquid neat standard injected into the flask in mL;
d=Density of the neat standard in g/mL;
M=Molecular weight of the compound in g/mole.

Equation 3: Now calculate the concentration in the flask in ppbv.

$$\text{ppbv} = \frac{V}{V_f}(10^9)$$

where:
V=Gas volume of compound as determined in Eq. 8 in liters;
V_f=Volume of static dilution flask in liters.

Equation 4*:* The concentration in ppbv of each compound in the canister can be determined.

$$\text{ppbv} = \frac{(V_i)(C_x)}{V_c}$$

where:
V_i=Volume removed from static dilution flask and injected into the canister in liters;
C_x=Concentration of compound *x* in the static dilution flask in ppbv;
V_c=Final canister volume in liters.

Equation 5: Calculate the relative response factors (RRF) for each compound.

$$\text{Relative Response Factor (RRF)} = \frac{(A_x)(C_i)}{(A_i)(C_x)}$$

where,
A_x=Area of the primary ion for compound *x* to be measured;
A_i=Area of the primary ion for the internal standard associated with compound *x*;
C_i=Concentration of the internal standard in ppbv;
C_x =Concentration of compound *x* to be measured in ppbv.

Equation 6: Calculate the mean RRF for each compound.

$$\overline{R_f} = \frac{\sum_{n=5} R_f}{n}$$

where,
$\overline{R_f}$ =Average relative response factor;
R_f=Relative response factor from calibration curve;
n=Number of data points.

Equation 7: Standard Deviation.

$$\sigma_{(n-1)} = \sqrt{\sum_{i-1}^{n} \frac{(x_i - \bar{x})^2}{(n-1)}}$$

Equation 8: %Relative Standard Deviation (%RSD).

$$\%RSD = \frac{s_{(n-1)}}{\bar{R}_f} x100$$

Equation 9: Mean area response for Internal Standard.

$$\bar{y} = \sum_{i=1}^{n} \frac{y_i}{n}$$

where,

$\bar{y}$ = mean area response

y = Area response for the internal standard for each initial calibration standard

Equation 10: If a linear regression is used, the regression produces the slope and intercept terms for a linear equation.

y = ax + b

where:

y = instrument response (peak area or height)

a = Slope of the line (also called the coefficient of x)

x = Concentration of the calibration standard

b = the intercept, do not include the origin (0) as a calibration point

Equation 11: To calculate the sample concentration by the internal standard method using the linear regression.

$C_s=[(A_sC_{is}/A_{is})-b]/a$

where:

As = Area of the peak for the target analyte in the sample

Ais = Area of the peak of the internal standard

Cs = Concentration of the target analyte in the calibration standard

Cis = Concentration of the internal standard

a = Slope of the line (also called the coefficient of Cs)

b = The intercept

Equation 12: To calculate the coefficient of determination (or r^2) for a quadratic curve fit.

$$COD = \frac{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2 - \left(\frac{n-1}{n-p}\right)\sum_{i=1}^{n}(y_{obs} - Y_i)^2}{\sum_{i=1}^{n}(y_{obs} - \bar{y})^2}$$

where:
y_{obs} = Observed response for each concentration from each initial calibration standard
y = Mean observed response from the initial calibration (See equation 6)
Y_i = Calculated response at each concentration from the initial calibration (See Equation 5)
n = Total number of calibration points in the equation, 6 points for quadratic
p = Number of adjustable parameters in the polynomial equation

Equation 13: Calculate the sample concentration by the internal standard method using the quadratic regression by comparing peak heights to the calibration curve.

Regression equation (quadratic):

$y = ax^2 + bx + c$

Equation 14: Percent Difference (%D). The % D in the RRF of the daily RRF of an individual compound compared to the mean RRF for that compound in the most recent calibration curve.

$$\%D = \frac{|R_i - R_c|}{R_i}(100)$$

where,

R_i=The average RRF from the initial calibration curve for compound *x*;
R_c=RRF for compound *x* from the CCV standard.

Equation 15: Calculate the percent recovery of the LCS.

$$\text{Percent Recovery} = \frac{C_q}{C_a}(100)$$

where:
C_q=Quantitated concentration of compound *x* in ppbv;
C_a=Actual concentration of compound *x* in ppbv.

Equation 16: Calculate the resultant dilution factor.

DF = (Pf + 14.7) / Pi + 14.7)

Pi = Pressure reading of canister prior to pressurization (psig)
Pf = Pressure reading of canister after pressurization (psig)
DF = Dilution factor

To convert Hg to psig:
Multiply by 0.491559 or divide by 2.036

PSIG reading is converted to One Atmosphere:
One Atmosphere = 14.7 psig = 29.21 inches of Hg

Equation 17: Calculate the concentration of the sample component.

$$C_x = \frac{(A_x)(C_i)(D_f)}{(A_i)(R_f)}$$

where:

C_x=Concentration of compound *x* in ppbv;
A_x=EICP area of the quantitation ion for compound *x*;
C_i=Concentration of the internal standard associated with compound *x* in ppbv;
D_f=Dilution factor from Equation 12 (if no dilution was performed, D_f equals 1.)
A_i=EICP area of the quantitation ion for the internal standard associated with compound *x*;
R_f=Average RRF for compound *x* from the most recent calibration curve.

Equation 18: The RPD between the sample and the sample duplicate.

$$RPD = \frac{|A - B|}{(A + B)/2} \times 100$$

Where:

RPD = Relative Percent Difference
A = Sample Value
B = Duplicate Value

Equation 19: Convert ppbv to µg/m³.

$$\frac{(x\ ppbv \times MW\frac{g}{mol})}{24.055\frac{L}{mol}} = y\frac{\mu g}{m^3}$$

Where:

MW = Molecular Weight
24.055 L/mol = Molar Volume of an ideal Gas

$$PV = nRT$$

$$V = \frac{nRT}{P}$$

Where:

V = Volume in liters
N = mols of ideal Gas (1 mol)
R = Ideal gas constant
T = Temperatire in Kelvin

$$V = \frac{(1mol) \times (0.082\ \frac{(L \times atm)}{(mol \times K)} \times 293.15K}{1\ atm}$$

$$V = 24.055\frac{L}{mol}$$

Equation 20: Preparation of Working TO15 Standard.

$$\frac{X}{Y} \times C = Z$$

Where:

X = Volume (L) spiked from stock
Y = Volume (L) of container
C = Concentration (ppbv) of Stock
Z = Concentration (ppbv) of working standard

DATA USABILITY SUMMARY REPORT
FEBRUARY/MARCH 2017 AIR SAMPLES
LOCKHEED MARTIN CORPORATION: GREAT NECK SITE
NEW YORK
DATE SAMPLES COLLECTED: FEBRUARY 15, 2017

LAB REPORT No. 10379458

1.0 INTRODUCTION

Sixteen air samples were collected by Tetra Tech, Inc., at the Lockheed Martin Corporation Great Neck site, on February 15, 2017. The samples were sent to Pace Analytical Services, LLC in Minneapolis, Minnesota. All analyses were conducted in accordance with USEPA TO-15 analytical and reporting protocols.

The data package deliverables provided by the laboratory included a Category B deliverable as outlined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols.

Data validation was performed on the aforementioned samples in accordance with EPA Region II data validation guidelines and USEPA Method TO-15. Data validation was conducted using USEPA Region II Standard Operating Procedure (SOP) HW-31, September 2016, Revision 6.

The Data Usability Summary Report (DUSR) was prepared after the process of data validation was completed and summarizes the overall data quality and usability in accordance with the NYSDEC Technical Guidance for Site Investigation and Remediation (NYSDEC 2010).

The DUSR review is based on the following parameters:

- Data completeness
- * Hold times/Sample Preservation
- * GC/MS System Tuning and Performance
- Initial/continuing calibrations
- * Laboratory Method Blank Results
- * Internal Standard Results
- * Laboratory Control Sample Results
- * Laboratory Duplicate Precision
- Field Duplicate Precision
- * Compound Identification/Quantitation
- * Tentatively Identified Compounds Results
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

This report was prepared to provide a critical review of the laboratory analysis and reported chemical results. Overall, the data quality is acceptable. The results of the DUSR are presented in Section 3.0. Summary tables are provided. Attachments 1, 2, and 3 are provided so that the data user can review the qualified analytical results, results reported by the laboratory and the supporting documentation associated with data findings and data quality.

2.0 SAMPLES INCLUDED IN REVIEW

Lab Report No. 10379458

Sample ID	Lab ID	Date Collected	Test Requested
AA_20170215	10379458016	2/15/17	VOCs
IA-12_20170215	10379458013	2/15/17	VOCs
IA-C1_20170215	10379458007	2/15/17	VOCs
IA-C20_20170215	10379458008	2/15/17	VOCs
IA-C20_20170215DUP	10379458014	2/15/17	VOCs
IA-D13-20170215	10379458005	2/15/17	VOCs
IA-D7-20170215	10379458010	2/15/17	VOCs
IA-E16_20170215	10379458009	2/15/17	VOCs
IA-G18_20170215	10379458012	2/15/17	VOCs
SS-C1_20170215	10379458001	2/15/17	VOCs
SS-C1_20170215DUP	10379458015	2/15/17	VOCs
SS-C20_20170215	10379458002	2/15/17	VOCs
SS-D13_20170215	10379458011	2/15/17	VOCs
SS-D7_20170215	10379458004	2/15/17	VOCs
SS-E16_20170215	10379458003	2/15/17	VOCs
SS-G18_20170215	10379458006	2/15/17	VOCs

Legend:

VOCs = Volatile Organic Compounds in accordance with EPA TO-15 Method

3.0 RESULTS

3.1 DATA COMPLETENESS

With the exception of clean canister certification batch samples, the data package deliverables were complete and the format requirements were met. Clean canister certification samples should be included in every data package to verify the canister cleaning was performed according to method requirements. The laboratory was contacted and described that they perform canister cleaning on all sample containers but only provide analysis on a single canister on a batch basis. The lab asked to provide the clean canister results.

3.2 ORGANIC QUALIFIERS

Hold Times/Sample Preservation: Technical hold times and preservation were assessed by comparing the sample dates and preservation code on the sample Chain of Custody (COC) with that of the analysis dates.

- All project samples were properly preserved and analyzed within the required hold time for VOC analyses.

GC/MS Performance Check (Tuning) Summary: Gas chromatograph/mass spectrometer (GC/MS) instrument tuning and performance checks are performed to ensure the instrument's ability to provide appropriate mass-resolution, identification and sensitivity.

- The BFB tuning compound mass-ion abundance criteria for the VOC analyses were reported within control limits.

Initial and Continuing Calibration Results: Control limits for initial and continuing instrument calibrations are established to ensure that the instrument is capable of producing accurate quantitative data. The following issues were noted:

- The continuing calibration performed on 03/05/2017 @ 9:36 had a Percent Difference (%D) for chloropentafluoroethane. Samples IA-D7_20170215, IA-D13_20170215, IA-G18_20170215, IA-12_20170215, SS-C1_20170215DUP, IA-C20_20170215DUP and AA_20170215. The non-detected results reported for this compound in the affected samples were qualified as estimated, (UJ).

- All other initial and continuing calibration response factors and percent relative standard deviations were within acceptable quality control limits for the parameters reviewed.

Laboratory Method Contamination:

- No target compound contaminants were detected in the laboratory method blank associated with the reviewed parameters in this data set.

- Methylene chloride was detected in 15 of 16 samples. Methylene chloride was not reported or detected in the associated laboratory method blanks. Despite the absence of methylene chloride in the method blanks, the data reviewer has qualified all methylene chloride detections as estimated, (J) considering them suspected laboratory contaminants.

Internal Standards Area Performance:

- The internal standard area counts and retention times fell within control limits for the project samples received and reviewed.

Laboratory Control Spike (LCS) Results:

- All LCS recoveries were compliant.

Laboratory Duplicate Precision: Laboratory duplicates provide information on laboratory precision.

- The laboratory duplicate precision Relative Percent Differences (RPDs) fell within control limits, thereby satisfying laboratory precision.

Field Duplicate Precision: Field duplicates are collected to provide information on sampling precision.

- IA-C20_20170215DUP was collected as a field duplicate sample of IA-C20_20170215. The RPDs associated with these two samples fell within quality control limits, thereby satisfying precision.

- SS-C1_20170215DUP was collected as a field duplicate sample of SS-C1_20170215. The RPDs exceeded the 50% quality control limit or the difference was greater than 2X the reporting limit for acetone, methylene chloride and hexachlorobutadiene. The detected and nondetected results reported for these compounds in the field duplicate pair were qualified as estimated, (J) and (UJ) respectively.

- The remaining results associated with these two samples fell within quality control limits, thereby satisfying precision.

Target Compound Identification and Quantitation: The laboratory calculations are verified and compound identifications are reviewed and assessed by the data reviewer.

- The GC/MS raw data (quantitation reports and chromatograms) were provided for review. No laboratory calculation errors were noted for the sample selected for verification during data validation.

Tentatively Identified Compounds (TIC) Results: A targeted TIC library search was conducted for each sample for the compound 1,2-difluoroethane.

- 1,2-Difluoroethane was not detected in the targeted TIC library search in the reviewed samples. No Reporting Limit (RL) was assigned. This compound was not included on the sample Form Is or the electronic deliverable.

Detection Limits: Non-detected results were reported to the RL.

- The following samples were further diluted due to concentrations of target compounds:

Sample	Compound	Dilution
SS-C20_20170215	Tetrachloroethene	18.3X
SS-E16_20170215	Tetrachloroethene	25.73X

  The results from the diluted analyses were used in the data review.

- Detected result reported below the RL but above the MDL were qualified as estimated, "J".

Additional Comments: According to the laboratory, the sample canisters were batch certified. All sample canisters contained an initial vacuum of approximately -30 psig (-26 to -30 psig) and finished at sub atmospheric pressures (-6 to -10).

It was noted that the laboratory switched samples SS-D13_20170215 and IA-D13_020170215. The project manager questioned the preliminary results and the samples were revised and corrected by the laboratory.

It was also noted that the laboratory switched samples IA-C20_20170215 and SS-C1_20170215. The project manager recognized the discrepancy between results in the corresponding field duplicate samples and asked the laboratory to revise the samples. The laboratory revised results.

4.0 CONCLUSIONS

Overall, based on the outcome of data validation as summarized in the DUSR, and with exception to the presence of methylene chloride which may be a laboratory contaminant in the opinion of the data reviewer, the data quality is acceptable with the qualifiers noted in this report.

Tetra Tech, Inc.
Terri L. Solomon
Chemist/Data Validator

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

May 9, 2017

Attachments:
Attachment 1 – Qualified Analytical Results
Attachment 2 – Results as Reported by the Laboratory
Attachment 3 – Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Appendix A

Qualified Analytical Results

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed
Z3 = Tentatively Identified Compound aldol condensate
Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 07792	NSAMPLE	AA_20170215			IA-12_20170215			IA-C1_20170215			IA-C20_20170215		
SDG: 10379458	LAB_ID	10379458016			10379458013			10379458007			10379458008		
FRACTION: OV	SAMP_DATE	2/15/2017			2/15/2017			2/15/2017			2/15/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.8	U		2	U		2.2	U		2.1	U	
1,1,2,2-TETRACHLOROETHANE		1.1	U		1.3	U		1.4	U		1.3	U	
1,1,2-TRICHLOROETHANE		0.89	U		1	U		1.1	U		1.1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.6	U		2.9	U		3.2	U		3.1	U	
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.1	U		5.8	U		6.4	U		6.1	U	
1,1-DICHLOROETHANE		1.3	U		1.5	U		1.6	U		1.6	U	
1,1-DICHLOROETHENE		1.3	U		1.5	U		1.6	U		1.6	U	
1,2,4-TRICHLOROBENZENE		6.1	U		6.9	U		7.6	U		7.2	U	
1,2,4-TRIMETHYLBENZENE		1.6	U		1.8	U		1.6	J	P	0.98	J	P
1,2-DIBROMO-3-CHLOROPROPANE		7.9	U		9	U		9.9	U		9.4	U	
1,2-DIBROMOETHANE		2.5	U		2.9	U		3.1	U		3	U	
1,2-DICHLOROBENZENE		2	U		2.2	U		2.5	U		2.3	U	
1,2-DICHLOROETHANE		0.66	U		0.75	U		0.82	U		0.79	U	
1,2-DICHLOROPROPANE		1.5	U		1.7	U		1.9	U		1.8	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.3	U		2.6	U		2.9	U		2.7	U	
1,3,5-TRIMETHYLBENZENE		1.6	U		1.8	U		2	U		1.9	U	
1,3-BUTADIENE		0.72	U		0.82	U		0.9	U		0.86	U	
1,3-DICHLOROBENZENE		2	U		2.2	U		2.5	U		2.3	U	
1,4-DICHLOROBENZENE		2	U		2.2	U		2.5	U		2.3	U	
1,4-DIOXANE		5.9	U		6.7	U		7.4	U		7	U	
1-ETHYL-4-METHYL BENZENE		1	J	P	1.8	U		2	U		1.2	J	P
2-BUTANONE		4.8	U		5.5	U		4.9	J	P	2.6	J	P
2-HEXANONE		6.7	U		7.6	U		8.4	U		8	U	
3-CHLOROPROPENE		2.6	U		2.9	U		3.2	U		3.1	U	
4-METHYL-2-PENTANONE		6.7	U		7.6	U		8.4	U		8	U	
ACETONE		10.2			13.1			48.7			32.4		
BENZENE		1.5			0.53	J	P	1.6			1.5		
BROMODICHLOROMETHANE		2.2	U		2.1	J	P	2.7	U		2.6	U	
BROMOFORM		3.4	U		3.8	U		4.2	U		4	U	
BROMOMETHANE		1.3	U		1.4	U		1.6	U		1.5	U	
CARBON DISULFIDE		1	U		1.2	U		1.3	U		1.2	U	
CARBON TETRACHLORIDE		1	U		0.68	J	P	1.3	U		1.2	U	
CHLOROBENZENE		1.5	U		1.7	U		1.9	U		1.8	U	
CHLORODIBROMOMETHANE		2.8	U		3.2	U		3.5	U		3.3	U	
CHLORODIFLUOROMETHANE		1.2	U		1.3	U		1.4	U		1.4	U	

PROJ_NO: 07792	NSAMPLE	IA-C20_20170215DUP			IA-D13_20170215			IA-D7_20170215			IA-E16_20170215		
SDG: 10379458	LAB_ID	10379458014			10379458005			10379458010			10379458009		
FRACTION: OV	SAMP_DATE	2/15/2017			2/15/2017			2/15/2017			2/15/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF	IA-C20_20170215											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		2.1	U		2.1	U		2.2	U		2.2	U	
1,1,2,2-TETRACHLOROETHANE		1.3	U		1.3	U		1.4	U		1.4	U	
1,1,2-TRICHLOROETHANE		1.1	U		1.1	U		1.1	U		1.1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		3.1	U		3.1	U		3.2	U		3.2	U	
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		6.1	U		6.1	U		6.4	U		6.4	U	
1,1-DICHLOROETHANE		1.6	U		1.6	U		1.6	U		1.6	U	
1,1-DICHLOROETHENE		1.6	U		1.6	U		1.6	U		1.6	U	
1,2,4-TRICHLOROBENZENE		7.2	U		7.2	U		7.6	U		7.6	U	
1,2,4-TRIMETHYLBENZENE		1.9	U		1.9	U		1.4	J	P	2	U	
1,2-DIBROMO-3-CHLOROPROPANE		9.4	U		9.4	U		9.9	U		9.9	U	
1,2-DIBROMOETHANE		3	U		3	U		3.1	U		3.1	U	
1,2-DICHLOROBENZENE		2.3	U		2.3	U		2.5	U		2.5	U	
1,2-DICHLOROETHANE		0.79	U		0.79	U		0.82	U		0.82	U	
1,2-DICHLOROPROPANE		1.8	U		1.8	U		1.9	U		1.9	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.7	U		2.7	U		2.9	U		2.9	U	
1,3,5-TRIMETHYLBENZENE		1.9	U		1.9	U		2	U		2	U	
1,3-BUTADIENE		0.86	U		0.86	U		0.9	U		0.9	U	
1,3-DICHLOROBENZENE		2.3	U		2.3	U		2.5	U		2.5	U	
1,4-DICHLOROBENZENE		2.3	U		2.3	U		2.5	U		2.5	U	
1,4-DIOXANE		7	U		7	U		7.4	U		7.4	U	
1-ETHYL-4-METHYL BENZENE		1.2	J	P	1.9	U		1.3	J	P	2	U	
2-BUTANONE		3.6	J	P	3.5	J	P	5.7	J	P	6	J	P
2-HEXANONE		8	U		8	U		8.4	U		1	J	P
3-CHLOROPROPENE		3.1	U		3.1	U		3.2	U		3.2	U	
4-METHYL-2-PENTANONE		8	U		8	U		8.4	U		8.4	U	
ACETONE		33.5			38.7			52.9			42.3		
BENZENE		1.5			1.5			1.5			1.7		
BROMODICHLOROMETHANE		2.6	U		2.6	U		2.7	U		2.7	U	
BROMOFORM		4	U		4	U		4.2	U		4.2	U	
BROMOMETHANE		1.5	U		1.5	U		1.6	U		1.6	U	
CARBON DISULFIDE		1.2	U		1.2	U		1.3	U		1.3	U	
CARBON TETRACHLORIDE		1.2	U		1.2	U		1.3	U		1.3	U	
CHLOROBENZENE		1.8	U		1.8	U		1.9	U		1.9	U	
CHLORODIBROMOMETHANE		3.3	U		3.3	U		3.5	U		3.5	U	
CHLORODIFLUOROMETHANE		1.4	U		1.4	U		1.4	U		1.4	U	

PROJ_NO: 07792	NSAMPLE	IA-G18_20170215			SS-C1_20170215			SS-C1_20170215DUP			SS-C20_20170215		
SDG: 10379458	LAB_ID	10379458012			10379458001			10379458015			10379458002		
FRACTION: OV	SAMP_DATE	2/15/2017			2/15/2017			2/15/2017			2/15/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF							SS-C1_20170215					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		2	U		2.1	U		2.1	U		2	U	
1,1,2,2-TETRACHLOROETHANE		1.3	U		1.3	U		1.3	U		1.3	U	
1,1,2-TRICHLOROETHANE		1	U		1.1	U		1.1	U		1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		2.9	U		3.1	U		3.1	U		109		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE		5.8	U		6.1	U		6.1	U		5.8	U	
1,1-DICHLOROETHANE		1.5	U		1.6	U		1.6	U		1.5	U	
1,1-DICHLOROETHENE		1.5	U		1.6	U		1.6	U		1.5	U	
1,2,4-TRICHLOROBENZENE		6.9	U		7.2	U		10.5			6.9	U	
1,2,4-TRIMETHYLBENZENE		1.8	U		1.9	U		1.9	U		1.1	J	P
1,2-DIBROMO-3-CHLOROPROPANE		9	U		9.4	U		9.4	U		9	U	
1,2-DIBROMOETHANE		2.9	U		3	U		3	U		2.9	U	
1,2-DICHLOROBENZENE		2.2	U		2.3	U		2.3	U		2.2	U	
1,2-DICHLOROETHANE		0.75	U		0.79	U		0.79	U		0.75	U	
1,2-DICHLOROPROPANE		1.7	U		1.8	U		1.8	U		1.7	U	
1,2-DICHLOROTETRAFLUOROETHANE		2.6	U		2.7	U		2.7	U		2.6	U	
1,3,5-TRIMETHYLBENZENE		1.8	U		1.9	U		1.9	U		1.8	U	
1,3-BUTADIENE		0.82	U		0.86	U		0.86	U		0.82	U	
1,3-DICHLOROBENZENE		2.2	U		2.3	U		2.3	U		2.2	U	
1,4-DICHLOROBENZENE		2.2	U		2.3	U		2.3	U		2.2	U	
1,4-DIOXANE		6.7	U		7	U		7	U		6.7	U	
1-ETHYL-4-METHYL BENZENE		1.2	J	P	1.9	U		1.9	U		1.8	U	
2-BUTANONE		5.5	U		9.2			5.8	U		3.6	J	P
2-HEXANONE		7.6	U		1.7	J	P	8	U		0.83	J	P
3-CHLOROPROPENE		2.9	U		3.1	U		3.1	U		2.9	U	
4-METHYL-2-PENTANONE		7.6	U		8	U		8	U		7.6	U	
ACETONE		32			24	J	G	7.9	J	G	15		
BENZENE		1.5			0.62	U		0.62	U		0.59	U	
BROMODICHLOROMETHANE		2.5	U		2.6	U		2.6	U		2.5	U	
BROMOFORM		3.8	U		4	U		4	U		3.8	U	
BROMOMETHANE		1.4	U		1.5	U		1.5	U		1.4	U	
CARBON DISULFIDE		1.2	U		1.2	U		1.2	U		0.66	J	P
CARBON TETRACHLORIDE		1.2	U		1.2	U		1.2	U		1.2	U	
CHLOROBENZENE		1.7	U		1.8	U		1.8	U		1.7	U	
CHLORODIBROMOMETHANE		3.2	U		3.3	U		3.3	U		3.2	U	
CHLORODIFLUOROMETHANE		1.3	U		1.4	U		1.4	U		1.3	U	

PROJ_NO: 07792	NSAMPLE	SS-C20_20170215-DL			SS-D13_20170215			SS-D7_20170215			SS-E16_20170215		
SDG: 10379458	LAB_ID	10379458002			10379458011			10379458004			10379458003		
FRACTION: OV	SAMP_DATE	2/15/2017			2/15/2017			2/15/2017			2/15/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					2.4	U		7.2			2.1	U	
1,1,2,2-TETRACHLOROETHANE					1.5	U		1.3	U		1.3	U	
1,1,2-TRICHLOROETHANE					1.2	U		1.1	U		1.1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					4.9			9.3			3.9		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					6.7	U		6.1	U		6.1	U	
1,1-DICHLOROETHANE					1.7	U		1.6	U		1.6	U	
1,1-DICHLOROETHENE					1.7	U		1.6	U		1.6	U	
1,2,4-TRICHLOROBENZENE					8	U		7.2	U		7.2	U	
1,2,4-TRIMETHYLBENZENE					1.4	J	P	4.4			1.2	J	P
1,2-DIBROMO-3-CHLOROPROPANE					10.4	U		9.4	U		9.4	U	
1,2-DIBROMOETHANE					3.3	U		3	U		3	U	
1,2-DICHLOROBENZENE					2.6	U		2.3	U		2.3	U	
1,2-DICHLOROETHANE					0.87	U		0.79	U		0.79	U	
1,2-DICHLOROPROPANE					2	U		1.8	U		1.8	U	
1,2-DICHLOROTETRAFLUOROETHANE					3	U		2.7	U		2.7	U	
1,3,5-TRIMETHYLBENZENE					2.1	U		1.3	J	P	1.9	U	
1,3-BUTADIENE					0.95	U		0.86	U		0.86	U	
1,3-DICHLOROBENZENE					2.6	U		2.3	U		2.3	U	
1,4-DICHLOROBENZENE					2.6	U		2.3	U		2.3	U	
1,4-DIOXANE					7.8	U		7	U		7	U	
1-ETHYL-4-METHYL BENZENE					1.3	J	P	1.7	J	P	1.9	U	
2-BUTANONE					6.4	U		4.5	J	P	3.6	J	P
2-HEXANONE					8.8	U		1.2	J	P	8	U	
3-CHLOROPROPENE					3.4	U		3.1	U		3.1	U	
4-METHYL-2-PENTANONE					8.8	U		8	U		8	U	
ACETONE					48.5			22.7			16.5		
BENZENE					6.8			0.41	J	P	1		
BROMODICHLOROMETHANE					2.9	U		2.6	U		2.6	U	
BROMOFORM					4.5	U		4	U		4	U	
BROMOMETHANE					1.7	U		1.5	U		1.5	U	
CARBON DISULFIDE					1.3	U		1.1	J	P	0.91	J	P
CARBON TETRACHLORIDE					1.4	U		1.2	U		1.2	U	
CHLOROBENZENE					2	U		1.8	U		1.8	U	
CHLORODIBROMOMETHANE					3.7	U		3.3	U		3.3	U	
CHLORODIFLUOROMETHANE					1.5	U		1.4	U		1.4	U	

PROJ_NO: 07792	NSAMPLE	SS-E16_20170215-DL			SS-G18_20170215		
SDG: 10379458	LAB_ID	10379458003			10379458006		
FRACTION: OV	SAMP_DATE	2/15/2017			2/15/2017		
MEDIA: AIR	QC_TYPE	NM			NM		
	UNITS	UG/M3			UG/M3		
	PCT_SOLIDS						
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					2	U	
1,1,2,2-TETRACHLOROETHANE					1.3	U	
1,1,2-TRICHLOROETHANE					1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					23.3		
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE					5.8	U	
1,1-DICHLOROETHANE					1.5	U	
1,1-DICHLOROETHENE					1.5	U	
1,2,4-TRICHLOROBENZENE					6.9	U	
1,2,4-TRIMETHYLBENZENE					2.3		
1,2-DIBROMO-3-CHLOROPROPANE					9	U	
1,2-DIBROMOETHANE					2.9	U	
1,2-DICHLOROBENZENE					2.2	U	
1,2-DICHLOROETHANE					0.75	U	
1,2-DICHLOROPROPANE					1.7	U	
1,2-DICHLOROTETRAFLUOROETHANE					2.6	U	
1,3,5-TRIMETHYLBENZENE					1.8	U	
1,3-BUTADIENE					0.82	U	
1,3-DICHLOROBENZENE					2.2	U	
1,4-DICHLOROBENZENE					2.2	U	
1,4-DIOXANE					6.7	U	
1-ETHYL-4-METHYL BENZENE					1.3	J	P
2-BUTANONE					4.3	J	P
2-HEXANONE					0.84	J	P
3-CHLOROPROPENE					2.9	U	
4-METHYL-2-PENTANONE					0.93	J	P
ACETONE					28.1		
BENZENE					0.96		
BROMODICHLOROMETHANE					2.5	U	
BROMOFORM					3.8	U	
BROMOMETHANE					1.4	U	
CARBON DISULFIDE					0.71	J	P
CARBON TETRACHLORIDE					1.3		
CHLOROBENZENE					1.7	U	
CHLORODIBROMOMETHANE					3.2	U	
CHLORODIFLUOROMETHANE					0.86	J	P

PROJ_NO: 07792	NSAMPLE	AA_20170215			IA-12_20170215			IA-C1_20170215			IA-C20_20170215		
SDG: 10379458	LAB_ID	10379458016			10379458013			10379458007			10379458008		
FRACTION: OV	SAMP_DATE	2/15/2017			2/15/2017			2/15/2017			2/15/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.87	U		0.99	U		1.1	U		1	U	
CHLOROFORM		0.8	U		98.7			3.3			3.9		
CHLOROMETHANE		0.68	U		0.77	U		1.2			1.1		
CIS-1,2-DICHLOROETHENE		1.3	U		1.5	U		1.6	U		1.6	U	
CIS-1,3-DICHLOROPROPENE		1.5	U		1.7	U		1.8	U		1.8	U	
CYCLOHEXANE		0.62	J	P	1.3	U		1.4	U		0.71	J	P
DICHLORODIFLUOROMETHANE		2.2			1.8	U		2.1			2		
ETHYLBENZENE		1.4	U		1.6	U		1.8	U		1.7	U	
HEXACHLOROBUTADIENE		3.5	U		4	U		4.4	U		4.2	U	
HEXANE		1.5			1.1	J	P	2			1.4		
ISOPROPANOL		2.5	J	P	2.6	J	P	86.4			93.6		
ISOPROPYLBENZENE		4	U		4.6	U		5	U		4.8	U	
M+P-XYLENES		1.8	J	P	3.2	U		2.6	J	P	2	J	P
METHYL ACETATE		2.5	U		2.8	U		3.1	U		3	U	
METHYL CYCLOHEXANE		1.3	U		1.5	U		1.6	U		1.6	U	
METHYL TERT-BUTYL ETHER		5.9	U		6.7	U		7.4	U		7	U	
METHYLENE CHLORIDE		4.6	J	AP	5.2	J	AP	5.3	J	AP	3.3	J	AP
O-XYLENE		1.4	U		1.6	U		1.8	U		1.7	U	
PENTAFLUOROETHYL CHLORIDE		5.2	UJ	C	5.9	UJ	C	6.5	U		6.2	U	
STYRENE		1.4	U		1.6	U		1.7	U		0.84	J	P
TETRACHLOROETHENE		1.2			8.4			1.3	J	P	1.3	J	P
TOLUENE		2.8			1.6			3.2			3.2		
TRANS-1,2-DICHLOROETHENE		1.3	U		1.5	U		1.6	U		1.6	U	
TRANS-1,3-DICHLOROPROPENE		1.5	U		1.7	U		1.8	U		1.8	U	
TRICHLOROETHENE		0.89	U		4			1.1	U		1.1	U	
TRICHLOROFLUOROMETHANE		1.3	J	P	1.3	J	P	1.3	J	P	1.1	J	P
VINYL CHLORIDE		0.42	U		0.48	U		0.52	U		0.5	U	

PROJ_NO: 07792	NSAMPLE	IA-C20_20170215DUP			IA-D13_20170215			IA-D7_20170215			IA-E16_20170215		
SDG: 10379458	LAB_ID	10379458014			10379458005			10379458010			10379458009		
FRACTION: OV	SAMP_DATE	2/15/2017			2/15/2017			2/15/2017			2/15/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF	IA-C20_20170215											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		1	U		1	U		1.1	U		1.1	U	
CHLOROFORM		3.3			3.9			3.5			3.9		
CHLOROMETHANE		0.83			1.2			0.84	U		1.2		
CIS-1,2-DICHLOROETHENE		1.6	U		1.6	U		1.6	U		1.6	U	
CIS-1,3-DICHLOROPROPENE		1.8	U		1.8	U		1.8	U		1.8	U	
CYCLOHEXANE		1.3	U		1.3	U		0.75	J	P	1.1	J	P
DICHLORODIFLUOROMETHANE		2.1			2			2.1			2.2		
ETHYLBENZENE		1.7	U		1.7	U		1.8	U		1.8	U	
HEXACHLOROBUTADIENE		4.2	U		4.2	U		4.4	U		4.4	U	
HEXANE		1.7			1.7			1.4	U		2.4		
ISOPROPANOL		89.6			96.4			96.7			102		
ISOPROPYLBENZENE		4.8	U		4.8	U		5	U		5	U	
M+P-XYLENES		2.1	J	P	2	J	P	2.7	J	P	2.3	J	P
METHYL ACETATE		3	U		3	U		3.1	U		3.1	U	
METHYL CYCLOHEXANE		1.6	U		1.6	U		1.6	U		1.6	U	
METHYL TERT-BUTYL ETHER		7	U		7	U		7.4	U		7.4	U	
METHYLENE CHLORIDE		5.2	J	AP	4.6	J	AP	7.1	J	A	5.9	J	AP
O-XYLENE		1.7	U		1.7	U		0.9	J	P	1.8	U	
PENTAFLUOROETHYL CHLORIDE		6.2	UJ	C	6.2	U		6.5	UJ	C	6.5	U	
STYRENE		0.85	J	P	1.7	U		0.93	J	P	0.92	J	P
TETRACHLOROETHENE		1.2	J	P	1.3	J	P	1.2	J	P	1.3	J	P
TOLUENE		3			3.1			3.3			3.5		
TRANS-1,2-DICHLOROETHENE		1.6	U		1.6	U		1.6	U		1.6	U	
TRANS-1,3-DICHLOROPROPENE		1.8	U		1.8	U		1.8	U		1.8	U	
TRICHLOROETHENE		1.1	U		1.1	U		1.1	U		1.1	U	
TRICHLOROFLUOROMETHANE		1.1	J	P	1.2	J	P	1.2	J	P	1.2	J	P
VINYL CHLORIDE		0.5	U		0.5	U		0.52	U		0.52	U	

PROJ_NO: 07792	NSAMPLE	IA-G18_20170215			SS-C1_20170215			SS-C1_20170215DUP			SS-C20_20170215		
SDG: 10379458	LAB_ID	10379458012			10379458001			10379458015			10379458002		
FRACTION: OV	SAMP_DATE	2/15/2017			2/15/2017			2/15/2017			2/15/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF							SS-C1_20170215					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE		0.99	U		1	U		1	U		0.99	U	
CHLOROFORM		4.2			0.95	U		0.95	U		0.62	J	P
CHLOROMETHANE		1.2			0.81	U		0.81	U		0.77	U	
CIS-1,2-DICHLOROETHENE		1.5	U		1.6	U		1.6	U		1.5	U	
CIS-1,3-DICHLOROPROPENE		1.7	U		1.8	U		1.8	U		1.7	U	
CYCLOHEXANE		0.72	J	P	1.3	U		1.3	U		1.3	U	
DICHLORODIFLUOROMETHANE		2.1			2.2			2.1			2		
ETHYLBENZENE		1.6	U		1.7	U		1.7	U		1.6	U	
HEXACHLOROBUTADIENE		4	U		4.2	UJ	G	13.8	J	G	4	U	
HEXANE		1.4			3.2			1.4	U		1.3	U	
ISOPROPANOL		107			5.8			4.7	J	P	2.3	J	P
ISOPROPYLBENZENE		4.6	U		4.8	U		4.8	U		4.6	U	
M+P-XYLENES		2.2	J	P	3.4	U		3.4	U		3.2	U	
METHYL ACETATE		2.8	U		3	U		3	U		2.8	U	
METHYL CYCLOHEXANE		1.5	U		1.6	U		1.6	U		1.5	U	
METHYL TERT-BUTYL ETHER		6.7	U		7	U		7	U		6.7	U	
METHYLENE CHLORIDE		4.5	J	AP	20.6	J	AG	6.8	UJ	AG	4.7	J	AP
O-XYLENE		1.6	U		1.7	U		1.7	U		1.6	U	
PENTAFLUOROETHYL CHLORIDE		5.9	UJ	C	6.2	U		6.2	UJ	C	5.9	U	
STYRENE		0.81	J	P	1.7	U		1.7	U		1.6	U	
TETRACHLOROETHENE		1.1	J	P	8.9			9					
TOLUENE		3.3			1.5	J	P	0.83	J	P	1.4	U	
TRANS-1,2-DICHLOROETHENE		1.5	U		1.6	U		1.6	U		1.5	U	
TRANS-1,3-DICHLOROPROPENE		1.7	U		1.8	U		1.8	U		1.7	U	
TRICHLOROETHENE		1	U		80.6			80.1			2.3		
TRICHLOROFLUOROMETHANE		1.2	J	P	1.3	J	P	1.3	J	P	2	J	P
VINYL CHLORIDE		0.48	U		0.5	U		0.5	U		0.48	U	

PROJ_NO: 07792	NSAMPLE	SS-C20_20170215-DL			SS-D13_20170215			SS-D7_20170215			SS-E16_20170215		
SDG: 10379458	LAB_ID	10379458002			10379458011			10379458004			10379458003		
FRACTION: OV	SAMP_DATE	2/15/2017			2/15/2017			2/15/2017			2/15/2017		
MEDIA: AIR	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/M3			UG/M3			UG/M3			UG/M3		
	PCT_SOLIDS												
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					1.1	U		1	U		1	U	
CHLOROFORM					8.1			6.6			2.3		
CHLOROMETHANE					0.89	U		0.71	J	P	0.81	U	
CIS-1,2-DICHLOROETHENE					1.7	U		1.6	U		1.6	U	
CIS-1,3-DICHLOROPROPENE					2	U		1.8	U		1.8	U	
CYCLOHEXANE					0.82	J	P	1.3	U		1	J	P
DICHLORODIFLUOROMETHANE					2.1	J	P	2.1			2		
ETHYLBENZENE					1.9	U		0.91	J	P	1.7	U	
HEXACHLOROBUTADIENE					4.6	U		4.2	U		4.2	U	
HEXANE					1.4	J	P	1.4	U		1.7		
ISOPROPANOL					66.3			9.8			17.9		
ISOPROPYLBENZENE					5.3	U		4.8	U		4.8	U	
M+P-XYLENES					3.3	J	P	3.5			2.3	J	P
METHYL ACETATE					3.3	U		3	U		3	U	
METHYL CYCLOHEXANE					1.7	U		1.6	U		1.6	U	
METHYL TERT-BUTYL ETHER					7.8	U		7	U		7	U	
METHYLENE CHLORIDE					4	J	AP	4.9	J	AP	7.9	J	A
O-XYLENE					1.5	J	P	1.3	J	P	1.1	J	P
PENTAFLUOROETHYL CHLORIDE					6.8	UJ	C	6.2	U		6.2	U	
STYRENE					1	J	P	0.83	J	P	0.88	J	P
TETRACHLOROETHENE		643			49.3			14.8					
TOLUENE					6.5			2.5			3		
TRANS-1,2-DICHLOROETHENE					3.1			1.6	U		1.6	U	
TRANS-1,3-DICHLOROPROPENE					2	U		1.8	U		1.8	U	
TRICHLOROETHENE					5			90.9			3.4		
TRICHLOROFLUOROMETHANE					2.5			3.6			1.5	J	P
VINYL CHLORIDE					0.55	U		0.5	U		0.5	U	

PROJ_NO: 07792	NSAMPLE	SS-E16_20170215-DL			SS-G18_20170215		
SDG: 10379458	LAB_ID	10379458003			10379458006		
FRACTION: OV	SAMP_DATE	2/15/2017			2/15/2017		
MEDIA: AIR	QC_TYPE	NM			NM		
	UNITS	UG/M3			UG/M3		
	PCT_SOLIDS						
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
CHLOROETHANE					0.99	U	
CHLOROFORM					39.4		
CHLOROMETHANE					0.77	U	
CIS-1,2-DICHLOROETHENE					1.5	U	
CIS-1,3-DICHLOROPROPENE					1.7	U	
CYCLOHEXANE					1.3	U	
DICHLORODIFLUOROMETHANE					2.4		
ETHYLBENZENE					0.87	J	P
HEXACHLOROBUTADIENE					4	U	
HEXANE					13		
ISOPROPANOL					40.9		
ISOPROPYLBENZENE					4.6	U	
M+P-XYLENES					3.3		
METHYL ACETATE					2.8	U	
METHYL CYCLOHEXANE					1.5	U	
METHYL TERT-BUTYL ETHER					6.7	U	
METHYLENE CHLORIDE					81.3	J	A
O-XYLENE					1.5	J	P
PENTAFLUOROETHYL CHLORIDE					5.9	U	
STYRENE					1	J	P
TETRACHLOROETHENE		644			22.5		
TOLUENE					4.1		
TRANS-1,2-DICHLOROETHENE					1.5	U	
TRANS-1,3-DICHLOROPROPENE					1.7	U	
TRICHLOROETHENE					2.7		
TRICHLOROFLUOROMETHANE					3.2		
VINYL CHLORIDE					0.48	U	

Appendix B

Results as Reported by the Laboratory

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-C1_20170215 **Lab ID: 10379458001** Collected: 02/15/17 16:03 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**24.0**	ug/m3	4.6	1.6	1.92		03/04/17 20:12	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/04/17 20:12	107-05-1	
Benzene	**<0.23**	ug/m3	0.62	0.23	1.92		03/04/17 20:12	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/04/17 20:12	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/04/17 20:12	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/04/17 20:12	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/04/17 20:12	106-99-0	
2-Butanone (MEK)	**9.2**	ug/m3	5.8	0.44	1.92		03/04/17 20:12	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/04/17 20:12	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/04/17 20:12	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/04/17 20:12	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/04/17 20:12	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/04/17 20:12	75-00-3	
Chloroform	**<0.36**	ug/m3	0.95	0.36	1.92		03/04/17 20:12	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/04/17 20:12	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/04/17 20:12	76-15-3	
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/04/17 20:12	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/04/17 20:12	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/04/17 20:12	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/04/17 20:12	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/04/17 20:12	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/04/17 20:12	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/04/17 20:12	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.9	0.92	1.92		03/04/17 20:12	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/04/17 20:12	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/04/17 20:12	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 20:12	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/04/17 20:12	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/04/17 20:12	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/04/17 20:12	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/04/17 20:12	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/04/17 20:12	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/04/17 20:12	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/04/17 20:12	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/04/17 20:12	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/04/17 20:12	100-41-4	
4-Ethyltoluene	**<0.36**	ug/m3	1.9	0.36	1.92		03/04/17 20:12	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/04/17 20:12	87-68-3	
n-Hexane	**3.2**	ug/m3	1.4	0.69	1.92		03/04/17 20:12	110-54-3	
2-Hexanone	**1.7J**	ug/m3	8.0	0.79	1.92		03/04/17 20:12	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/04/17 20:12	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/04/17 20:12	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 20:12	108-87-2	
Methylene Chloride	**20.6**	ug/m3	6.8	1.0	1.92		03/04/17 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/04/17 20:12	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/04/17 20:12	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-C1_20170215 **Lab ID: 10379458001** Collected: 02/15/17 16:03 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**5.8**	ug/m3	4.8	0.46	1.92		03/04/17 20:12	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/04/17 20:12	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/04/17 20:12	79-34-5	
Tetrachloroethene	**8.9**	ug/m3	1.3	0.53	1.92		03/04/17 20:12	127-18-4	
Toluene	**1.5J**	ug/m3	1.5	0.30	1.92		03/04/17 20:12	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/04/17 20:12	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/04/17 20:12	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/04/17 20:12	79-00-5	
Trichloroethene	**80.6**	ug/m3	1.1	0.53	1.92		03/04/17 20:12	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.2	0.25	1.92		03/04/17 20:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/04/17 20:12	76-13-1	
1,2,4-Trimethylbenzene	**<0.24**	ug/m3	1.9	0.24	1.92		03/04/17 20:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/04/17 20:12	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/04/17 20:12	75-01-4	
m&p-Xylene	**<1.5**	ug/m3	3.4	1.5	1.92		03/04/17 20:12	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/04/17 20:12	95-47-6	

Sample: SS-C20_20170215 **Lab ID: 10379458002** Collected: 02/15/17 16:38 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.0**	ug/m3	4.4	1.5	1.83		03/04/17 20:43	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 20:43	107-05-1	
Benzene	**<0.22**	ug/m3	0.59	0.22	1.83		03/04/17 20:43	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 20:43	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 20:43	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 20:43	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 20:43	106-99-0	
2-Butanone (MEK)	**3.6J**	ug/m3	5.5	0.42	1.83		03/04/17 20:43	78-93-3	
Carbon disulfide	**0.66J**	ug/m3	1.2	0.18	1.83		03/04/17 20:43	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/04/17 20:43	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 20:43	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/04/17 20:43	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 20:43	75-00-3	
Chloroform	**0.62J**	ug/m3	0.91	0.35	1.83		03/04/17 20:43	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/04/17 20:43	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 20:43	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/04/17 20:43	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 20:43	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 20:43	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 20:43	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 20:43	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 20:43	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-C20_20170215 **Lab ID: 10379458002** Collected: 02/15/17 16:38 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 20:43	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.8	0.88	1.83		03/04/17 20:43	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 20:43	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 20:43	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 20:43	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/04/17 20:43	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/04/17 20:43	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 20:43	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 20:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 20:43	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 20:43	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 20:43	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 20:43	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/04/17 20:43	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/04/17 20:43	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 20:43	87-68-3	
n-Hexane	**<0.65**	ug/m3	1.3	0.65	1.83		03/04/17 20:43	110-54-3	
2-Hexanone	**0.83J**	ug/m3	7.6	0.75	1.83		03/04/17 20:43	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 20:43	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 20:43	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 20:43	108-87-2	
Methylene Chloride	**4.7J**	ug/m3	6.5	0.99	1.83		03/04/17 20:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/04/17 20:43	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 20:43	1634-04-4	
2-Propanol	**2.3J**	ug/m3	4.6	0.44	1.83		03/04/17 20:43	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/04/17 20:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 20:43	79-34-5	
Tetrachloroethene	**534**	ug/m3	1.3	0.51	1.83		03/04/17 20:43	127-18-4	
Tetrachloroethene	**643**	ug/m3	25.2	5.1	18.3		03/05/17 20:13	127-18-4	
Toluene	**<0.28**	ug/m3	1.4	0.28	1.83		03/04/17 20:43	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 20:43	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 20:43	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/04/17 20:43	79-00-5	
Trichloroethene	**2.3**	ug/m3	1.0	0.51	1.83		03/04/17 20:43	79-01-6	
Trichlorofluoromethane	**2.0J**	ug/m3	2.1	0.24	1.83		03/04/17 20:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**109**	ug/m3	2.9	0.55	1.83		03/04/17 20:43	76-13-1	
1,2,4-Trimethylbenzene	**1.1J**	ug/m3	1.8	0.23	1.83		03/04/17 20:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 20:43	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 20:43	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/04/17 20:43	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/04/17 20:43	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-E16_20170215 **Lab ID: 10379458003** Collected: 02/15/17 15:58 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**16.5**	ug/m3	4.6	1.6	1.92		03/04/17 21:16	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/04/17 21:16	107-05-1	
Benzene	**1.0**	ug/m3	0.62	0.23	1.92		03/04/17 21:16	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/04/17 21:16	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/04/17 21:16	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/04/17 21:16	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/04/17 21:16	106-99-0	
2-Butanone (MEK)	**3.6J**	ug/m3	5.8	0.44	1.92		03/04/17 21:16	78-93-3	
Carbon disulfide	**0.91J**	ug/m3	1.2	0.19	1.92		03/04/17 21:16	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/04/17 21:16	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/04/17 21:16	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/04/17 21:16	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/04/17 21:16	75-00-3	
Chloroform	**2.3**	ug/m3	0.95	0.36	1.92		03/04/17 21:16	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/04/17 21:16	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/04/17 21:16	76-15-3	
Cyclohexane	**1.0J**	ug/m3	1.3	0.61	1.92		03/04/17 21:16	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/04/17 21:16	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/04/17 21:16	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/04/17 21:16	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/04/17 21:16	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/04/17 21:16	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/04/17 21:16	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.9	0.92	1.92		03/04/17 21:16	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/04/17 21:16	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/04/17 21:16	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 21:16	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/04/17 21:16	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/04/17 21:16	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/04/17 21:16	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/04/17 21:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/04/17 21:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/04/17 21:16	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/04/17 21:16	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/04/17 21:16	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/04/17 21:16	100-41-4	
4-Ethyltoluene	**<0.36**	ug/m3	1.9	0.36	1.92		03/04/17 21:16	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/04/17 21:16	87-68-3	
n-Hexane	**1.7**	ug/m3	1.4	0.69	1.92		03/04/17 21:16	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/04/17 21:16	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/04/17 21:16	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/04/17 21:16	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 21:16	108-87-2	
Methylene Chloride	**7.9**	ug/m3	6.8	1.0	1.92		03/04/17 21:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/04/17 21:16	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/04/17 21:16	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-E16_20170215 **Lab ID: 10379458003** Collected: 02/15/17 15:58 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**17.9**	ug/m3	4.8	0.46	1.92		03/04/17 21:16	67-63-0	
Styrene	**0.88J**	ug/m3	1.7	0.37	1.92		03/04/17 21:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/04/17 21:16	79-34-5	
Tetrachloroethene	**651**	ug/m3	1.3	0.53	1.92		03/04/17 21:16	127-18-4	
Tetrachloroethene	**644**	ug/m3	35.5	7.2	25.73		03/05/17 20:36	127-18-4	
Toluene	**3.0**	ug/m3	1.5	0.30	1.92		03/04/17 21:16	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/04/17 21:16	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/04/17 21:16	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/04/17 21:16	79-00-5	
Trichloroethene	**3.4**	ug/m3	1.1	0.53	1.92		03/04/17 21:16	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.2	0.25	1.92		03/04/17 21:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.9**	ug/m3	3.1	0.58	1.92		03/04/17 21:16	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.9	0.24	1.92		03/04/17 21:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/04/17 21:16	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/04/17 21:16	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.4	1.5	1.92		03/04/17 21:16	179601-23-1	
o-Xylene	**1.1J**	ug/m3	1.7	0.67	1.92		03/04/17 21:16	95-47-6	

Sample: SS-D7_20170215 **Lab ID: 10379458004** Collected: 02/15/17 16:18 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**22.7**	ug/m3	4.6	1.6	1.92		03/04/17 22:16	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/04/17 22:16	107-05-1	
Benzene	**0.41J**	ug/m3	0.62	0.23	1.92		03/04/17 22:16	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/04/17 22:16	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/04/17 22:16	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/04/17 22:16	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/04/17 22:16	106-99-0	
2-Butanone (MEK)	**4.5J**	ug/m3	5.8	0.44	1.92		03/04/17 22:16	78-93-3	
Carbon disulfide	**1.1J**	ug/m3	1.2	0.19	1.92		03/04/17 22:16	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/04/17 22:16	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/04/17 22:16	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/04/17 22:16	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/04/17 22:16	75-00-3	
Chloroform	**6.6**	ug/m3	0.95	0.36	1.92		03/04/17 22:16	67-66-3	
Chloromethane	**0.71J**	ug/m3	0.81	0.21	1.92		03/04/17 22:16	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/04/17 22:16	76-15-3	
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/04/17 22:16	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/04/17 22:16	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/04/17 22:16	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/04/17 22:16	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/04/17 22:16	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-D7_20170215 **Lab ID: 10379458004** Collected: 02/15/17 16:18 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/04/17 22:16	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/04/17 22:16	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.9	0.92	1.92		03/04/17 22:16	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/04/17 22:16	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/04/17 22:16	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 22:16	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/04/17 22:16	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/04/17 22:16	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/04/17 22:16	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/04/17 22:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/04/17 22:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/04/17 22:16	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/04/17 22:16	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/04/17 22:16	123-91-1	
Ethylbenzene	**0.91J**	ug/m3	1.7	0.82	1.92		03/04/17 22:16	100-41-4	
4-Ethyltoluene	**1.7J**	ug/m3	1.9	0.36	1.92		03/04/17 22:16	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/04/17 22:16	87-68-3	
n-Hexane	**<0.69**	ug/m3	1.4	0.69	1.92		03/04/17 22:16	110-54-3	
2-Hexanone	**1.2J**	ug/m3	8.0	0.79	1.92		03/04/17 22:16	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/04/17 22:16	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/04/17 22:16	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 22:16	108-87-2	
Methylene Chloride	**4.9J**	ug/m3	6.8	1.0	1.92		03/04/17 22:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/04/17 22:16	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/04/17 22:16	1634-04-4	
2-Propanol	**9.8**	ug/m3	4.8	0.46	1.92		03/04/17 22:16	67-63-0	
Styrene	**0.83J**	ug/m3	1.7	0.37	1.92		03/04/17 22:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/04/17 22:16	79-34-5	
Tetrachloroethene	**14.8**	ug/m3	1.3	0.53	1.92		03/04/17 22:16	127-18-4	
Toluene	**2.5**	ug/m3	1.5	0.30	1.92		03/04/17 22:16	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/04/17 22:16	120-82-1	
1,1,1-Trichloroethane	**7.2**	ug/m3	2.1	0.47	1.92		03/04/17 22:16	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/04/17 22:16	79-00-5	
Trichloroethene	**90.9**	ug/m3	1.1	0.53	1.92		03/04/17 22:16	79-01-6	
Trichlorofluoromethane	**3.6**	ug/m3	2.2	0.25	1.92		03/04/17 22:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**9.3**	ug/m3	3.1	0.58	1.92		03/04/17 22:16	76-13-1	
1,2,4-Trimethylbenzene	**4.4**	ug/m3	1.9	0.24	1.92		03/04/17 22:16	95-63-6	
1,3,5-Trimethylbenzene	**1.3J**	ug/m3	1.9	0.35	1.92		03/04/17 22:16	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/04/17 22:16	75-01-4	
m&p-Xylene	**3.5**	ug/m3	3.4	1.5	1.92		03/04/17 22:16	179601-23-1	
o-Xylene	**1.3J**	ug/m3	1.7	0.67	1.92		03/04/17 22:16	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-D13_20170215 **Lab ID: 10379458005** Collected: 02/15/17 15:37 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**38.7**	ug/m3	4.6	1.6	1.92		03/04/17 22:47	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/04/17 22:47	107-05-1	
Benzene	**1.5**	ug/m3	0.62	0.23	1.92		03/04/17 22:47	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/04/17 22:47	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/04/17 22:47	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/04/17 22:47	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/04/17 22:47	106-99-0	
2-Butanone (MEK)	**3.5J**	ug/m3	5.8	0.44	1.92		03/04/17 22:47	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/04/17 22:47	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/04/17 22:47	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/04/17 22:47	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/04/17 22:47	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/04/17 22:47	75-00-3	
Chloroform	**3.9**	ug/m3	0.95	0.36	1.92		03/04/17 22:47	67-66-3	
Chloromethane	**1.2**	ug/m3	0.81	0.21	1.92		03/04/17 22:47	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/04/17 22:47	76-15-3	
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/04/17 22:47	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/04/17 22:47	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/04/17 22:47	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/04/17 22:47	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/04/17 22:47	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/04/17 22:47	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/04/17 22:47	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.9	0.92	1.92		03/04/17 22:47	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/04/17 22:47	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/04/17 22:47	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 22:47	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/04/17 22:47	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/04/17 22:47	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/04/17 22:47	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/04/17 22:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/04/17 22:47	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/04/17 22:47	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/04/17 22:47	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/04/17 22:47	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/04/17 22:47	100-41-4	
4-Ethyltoluene	**<0.36**	ug/m3	1.9	0.36	1.92		03/04/17 22:47	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/04/17 22:47	87-68-3	
n-Hexane	**1.7**	ug/m3	1.4	0.69	1.92		03/04/17 22:47	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/04/17 22:47	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/04/17 22:47	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/04/17 22:47	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/04/17 22:47	108-87-2	
Methylene Chloride	**4.6J**	ug/m3	6.8	1.0	1.92		03/04/17 22:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/04/17 22:47	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/04/17 22:47	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-D13_20170215 **Lab ID: 10379458005** Collected: 02/15/17 15:37 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**96.4**	ug/m3	4.8	0.46	1.92		03/04/17 22:47	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/04/17 22:47	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/04/17 22:47	79-34-5	
Tetrachloroethene	**1.3J**	ug/m3	1.3	0.53	1.92		03/04/17 22:47	127-18-4	
Toluene	**3.1**	ug/m3	1.5	0.30	1.92		03/04/17 22:47	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/04/17 22:47	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/04/17 22:47	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/04/17 22:47	79-00-5	
Trichloroethene	**<0.53**	ug/m3	1.1	0.53	1.92		03/04/17 22:47	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.2	0.25	1.92		03/04/17 22:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/04/17 22:47	76-13-1	
1,2,4-Trimethylbenzene	**<0.24**	ug/m3	1.9	0.24	1.92		03/04/17 22:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/04/17 22:47	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/04/17 22:47	75-01-4	
m&p-Xylene	**2.0J**	ug/m3	3.4	1.5	1.92		03/04/17 22:47	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/04/17 22:47	95-47-6	

Sample: SS-G18_20170215 **Lab ID: 10379458006** Collected: 02/15/17 15:31 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**28.1**	ug/m3	4.4	1.5	1.83		03/04/17 23:20	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/04/17 23:20	107-05-1	
Benzene	**0.96**	ug/m3	0.59	0.22	1.83		03/04/17 23:20	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/04/17 23:20	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/04/17 23:20	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/04/17 23:20	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/04/17 23:20	106-99-0	
2-Butanone (MEK)	**4.3J**	ug/m3	5.5	0.42	1.83		03/04/17 23:20	78-93-3	
Carbon disulfide	**0.71J**	ug/m3	1.2	0.18	1.83		03/04/17 23:20	75-15-0	
Carbon tetrachloride	**1.3**	ug/m3	1.2	0.35	1.83		03/04/17 23:20	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/04/17 23:20	108-90-7	
Chlorodifluoromethane	**0.86J**	ug/m3	1.3	0.51	1.83		03/04/17 23:20	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/04/17 23:20	75-00-3	
Chloroform	**39.4**	ug/m3	0.91	0.35	1.83		03/04/17 23:20	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/04/17 23:20	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/04/17 23:20	76-15-3	
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/04/17 23:20	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/04/17 23:20	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/04/17 23:20	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/04/17 23:20	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/04/17 23:20	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/04/17 23:20	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-G18_20170215 **Lab ID: 10379458006** Collected: 02/15/17 15:31 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/04/17 23:20	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.8	0.88	1.83		03/04/17 23:20	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/04/17 23:20	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/04/17 23:20	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 23:20	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/04/17 23:20	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/04/17 23:20	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/04/17 23:20	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/04/17 23:20	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/04/17 23:20	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/04/17 23:20	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/04/17 23:20	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/04/17 23:20	123-91-1	
Ethylbenzene	**0.87J**	ug/m3	1.6	0.78	1.83		03/04/17 23:20	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	1.8	0.34	1.83		03/04/17 23:20	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/04/17 23:20	87-68-3	
n-Hexane	**13.0**	ug/m3	1.3	0.65	1.83		03/04/17 23:20	110-54-3	
2-Hexanone	**0.84J**	ug/m3	7.6	0.75	1.83		03/04/17 23:20	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/04/17 23:20	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/04/17 23:20	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/04/17 23:20	108-87-2	
Methylene Chloride	**81.3**	ug/m3	6.5	0.99	1.83		03/04/17 23:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.93J**	ug/m3	7.6	0.40	1.83		03/04/17 23:20	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/04/17 23:20	1634-04-4	
2-Propanol	**40.9**	ug/m3	4.6	0.44	1.83		03/04/17 23:20	67-63-0	
Styrene	**1.0J**	ug/m3	1.6	0.35	1.83		03/04/17 23:20	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/04/17 23:20	79-34-5	
Tetrachloroethene	**22.5**	ug/m3	1.3	0.51	1.83		03/04/17 23:20	127-18-4	
Toluene	**4.1**	ug/m3	1.4	0.28	1.83		03/04/17 23:20	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/04/17 23:20	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/04/17 23:20	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/04/17 23:20	79-00-5	
Trichloroethene	**2.7**	ug/m3	1.0	0.51	1.83		03/04/17 23:20	79-01-6	
Trichlorofluoromethane	**3.2**	ug/m3	2.1	0.24	1.83		03/04/17 23:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	**23.3**	ug/m3	2.9	0.55	1.83		03/04/17 23:20	76-13-1	
1,2,4-Trimethylbenzene	**2.3**	ug/m3	1.8	0.23	1.83		03/04/17 23:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/04/17 23:20	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/04/17 23:20	75-01-4	
m&p-Xylene	**3.3**	ug/m3	3.2	1.4	1.83		03/04/17 23:20	179601-23-1	
o-Xylene	**1.5J**	ug/m3	1.6	0.64	1.83		03/04/17 23:20	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-C1_20170215 **Lab ID: 10379458007** Collected: 02/15/17 16:17 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**48.7**	ug/m3	4.9	1.7	2.01		03/04/17 23:52	67-64-1	
Allyl chloride	**<0.46**	ug/m3	3.2	0.46	2.01		03/04/17 23:52	107-05-1	
Benzene	**1.6**	ug/m3	0.65	0.25	2.01		03/04/17 23:52	71-43-2	
Bromodichloromethane	**<0.39**	ug/m3	2.7	0.39	2.01		03/04/17 23:52	75-27-4	
Bromoform	**<1.8**	ug/m3	4.2	1.8	2.01		03/04/17 23:52	75-25-2	
Bromomethane	**<0.62**	ug/m3	1.6	0.62	2.01		03/04/17 23:52	74-83-9	
1,3-Butadiene	**<0.35**	ug/m3	0.90	0.35	2.01		03/04/17 23:52	106-99-0	
2-Butanone (MEK)	**4.9J**	ug/m3	6.0	0.46	2.01		03/04/17 23:52	78-93-3	
Carbon disulfide	**<0.20**	ug/m3	1.3	0.20	2.01		03/04/17 23:52	75-15-0	
Carbon tetrachloride	**<0.39**	ug/m3	1.3	0.39	2.01		03/04/17 23:52	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		03/04/17 23:52	108-90-7	
Chlorodifluoromethane	**<0.55**	ug/m3	1.4	0.55	2.01		03/04/17 23:52	75-45-6	
Chloroethane	**<0.39**	ug/m3	1.1	0.39	2.01		03/04/17 23:52	75-00-3	
Chloroform	**3.3**	ug/m3	1.0	0.38	2.01		03/04/17 23:52	67-66-3	
Chloromethane	**1.2**	ug/m3	0.84	0.22	2.01		03/04/17 23:52	74-87-3	
Chloropentafluoroethane	**<6.5**	ug/m3	6.5	6.5	2.01		03/04/17 23:52	76-15-3	
Cyclohexane	**<0.64**	ug/m3	1.4	0.64	2.01		03/04/17 23:52	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.9**	ug/m3	9.9	9.9	2.01		03/04/17 23:52	96-12-8	
Dibromochloromethane	**<1.7**	ug/m3	3.5	1.7	2.01		03/04/17 23:52	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.1	1.6	2.01		03/04/17 23:52	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/04/17 23:52	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.5	1.1	2.01		03/04/17 23:52	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/04/17 23:52	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	2.0	0.96	2.01		03/04/17 23:52	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.6	0.32	2.01		03/04/17 23:52	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/m3	0.82	0.41	2.01		03/04/17 23:52	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.6	0.48	2.01		03/04/17 23:52	75-35-4	
cis-1,2-Dichloroethene	**<0.49**	ug/m3	1.6	0.49	2.01		03/04/17 23:52	156-59-2	
trans-1,2-Dichloroethene	**<0.77**	ug/m3	1.6	0.77	2.01		03/04/17 23:52	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/m3	1.9	0.54	2.01		03/04/17 23:52	78-87-5	
cis-1,3-Dichloropropene	**<0.74**	ug/m3	1.8	0.74	2.01		03/04/17 23:52	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/m3	1.8	0.52	2.01		03/04/17 23:52	10061-02-6	
Dichlorotetrafluoroethane	**<0.62**	ug/m3	2.9	0.62	2.01		03/04/17 23:52	76-14-2	
Freon 123	**<6.4**	ug/m3	6.4	6.4	2.01		03/04/17 23:52	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.71**	ug/m3	7.4	0.71	2.01		03/04/17 23:52	123-91-1	
Ethylbenzene	**<0.85**	ug/m3	1.8	0.85	2.01		03/04/17 23:52	100-41-4	
4-Ethyltoluene	**<0.38**	ug/m3	2.0	0.38	2.01		03/04/17 23:52	622-96-8	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	4.4	1.3	2.01		03/04/17 23:52	87-68-3	
n-Hexane	**2.0**	ug/m3	1.4	0.72	2.01		03/04/17 23:52	110-54-3	
2-Hexanone	**<0.82**	ug/m3	8.4	0.82	2.01		03/04/17 23:52	591-78-6	
Isopropylbenzene (Cumene)	**<0.28**	ug/m3	5.0	0.28	2.01		03/04/17 23:52	98-82-8	
Methyl acetate	**<3.1**	ug/m3	3.1	3.1	2.01		03/04/17 23:52	79-20-9	
Methylcyclohexane	**<0.49**	ug/m3	1.6	0.49	2.01		03/04/17 23:52	108-87-2	
Methylene Chloride	**5.3J**	ug/m3	7.1	1.1	2.01		03/04/17 23:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.44**	ug/m3	8.4	0.44	2.01		03/04/17 23:52	108-10-1	
Methyl-tert-butyl ether	**<0.61**	ug/m3	7.4	0.61	2.01		03/04/17 23:52	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-C1_20170215 **Lab ID: 10379458007** Collected: 02/15/17 16:17 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**86.4**	ug/m3	5.0	0.48	2.01		03/04/17 23:52	67-63-0	
Styrene	**<0.39**	ug/m3	1.7	0.39	2.01		03/04/17 23:52	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	1.4	0.66	2.01		03/04/17 23:52	79-34-5	
Tetrachloroethene	**1.3J**	ug/m3	1.4	0.56	2.01		03/04/17 23:52	127-18-4	
Toluene	**3.2**	ug/m3	1.5	0.31	2.01		03/04/17 23:52	108-88-3	
1,2,4-Trichlorobenzene	**<1.8**	ug/m3	7.6	1.8	2.01		03/04/17 23:52	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	2.2	0.50	2.01		03/04/17 23:52	71-55-6	
1,1,2-Trichloroethane	**<0.49**	ug/m3	1.1	0.49	2.01		03/04/17 23:52	79-00-5	
Trichloroethene	**<0.55**	ug/m3	1.1	0.55	2.01		03/04/17 23:52	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.3	0.27	2.01		03/04/17 23:52	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.61**	ug/m3	3.2	0.61	2.01		03/04/17 23:52	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	2.0	0.25	2.01		03/04/17 23:52	95-63-6	
1,3,5-Trimethylbenzene	**<0.37**	ug/m3	2.0	0.37	2.01		03/04/17 23:52	108-67-8	
Vinyl chloride	**<0.39**	ug/m3	0.52	0.39	2.01		03/04/17 23:52	75-01-4	
m&p-Xylene	**2.6J**	ug/m3	3.6	1.6	2.01		03/04/17 23:52	179601-23-1	
o-Xylene	**<0.71**	ug/m3	1.8	0.71	2.01		03/04/17 23:52	95-47-6	

Sample: IA-C20_20170215 **Lab ID: 10379458008** Collected: 02/15/17 16:35 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**32.4**	ug/m3	4.6	1.6	1.92		03/05/17 00:23	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 00:23	107-05-1	
Benzene	**1.5**	ug/m3	0.62	0.23	1.92		03/05/17 00:23	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 00:23	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 00:23	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 00:23	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 00:23	106-99-0	
2-Butanone (MEK)	**2.6J**	ug/m3	5.8	0.44	1.92		03/05/17 00:23	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 00:23	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/05/17 00:23	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 00:23	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/05/17 00:23	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 00:23	75-00-3	
Chloroform	**3.9**	ug/m3	0.95	0.36	1.92		03/05/17 00:23	67-66-3	
Chloromethane	**1.1**	ug/m3	0.81	0.21	1.92		03/05/17 00:23	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 00:23	76-15-3	
Cyclohexane	**0.71J**	ug/m3	1.3	0.61	1.92		03/05/17 00:23	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 00:23	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 00:23	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 00:23	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 00:23	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 00:23	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-C20_20170215 **Lab ID: 10379458008** Collected: 02/15/17 16:35 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 00:23	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.9	0.92	1.92		03/05/17 00:23	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 00:23	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 00:23	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 00:23	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/05/17 00:23	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/05/17 00:23	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 00:23	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 00:23	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 00:23	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 00:23	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 00:23	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 00:23	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/05/17 00:23	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.9	0.36	1.92		03/05/17 00:23	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/05/17 00:23	87-68-3	
n-Hexane	**1.4**	ug/m3	1.4	0.69	1.92		03/05/17 00:23	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 00:23	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 00:23	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 00:23	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 00:23	108-87-2	
Methylene Chloride	**3.3J**	ug/m3	6.8	1.0	1.92		03/05/17 00:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 00:23	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/05/17 00:23	1634-04-4	
2-Propanol	**93.6**	ug/m3	4.8	0.46	1.92		03/05/17 00:23	67-63-0	
Styrene	**0.84J**	ug/m3	1.7	0.37	1.92		03/05/17 00:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 00:23	79-34-5	
Tetrachloroethene	**1.3J**	ug/m3	1.3	0.53	1.92		03/05/17 00:23	127-18-4	
Toluene	**3.2**	ug/m3	1.5	0.30	1.92		03/05/17 00:23	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/05/17 00:23	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/05/17 00:23	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/05/17 00:23	79-00-5	
Trichloroethene	**<0.53**	ug/m3	1.1	0.53	1.92		03/05/17 00:23	79-01-6	
Trichlorofluoromethane	**1.1J**	ug/m3	2.2	0.25	1.92		03/05/17 00:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/05/17 00:23	76-13-1	
1,2,4-Trimethylbenzene	**0.98J**	ug/m3	1.9	0.24	1.92		03/05/17 00:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/05/17 00:23	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 00:23	75-01-4	
m&p-Xylene	**2.0J**	ug/m3	3.4	1.5	1.92		03/05/17 00:23	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/05/17 00:23	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-E16_20170215 **Lab ID: 10379458009** Collected: 02/15/17 17:09 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**42.3**	ug/m3	4.9	1.7	2.01		03/05/17 00:56	67-64-1	
Allyl chloride	**<0.46**	ug/m3	3.2	0.46	2.01		03/05/17 00:56	107-05-1	
Benzene	**1.7**	ug/m3	0.65	0.25	2.01		03/05/17 00:56	71-43-2	
Bromodichloromethane	**<0.39**	ug/m3	2.7	0.39	2.01		03/05/17 00:56	75-27-4	
Bromoform	**<1.8**	ug/m3	4.2	1.8	2.01		03/05/17 00:56	75-25-2	
Bromomethane	**<0.62**	ug/m3	1.6	0.62	2.01		03/05/17 00:56	74-83-9	
1,3-Butadiene	**<0.35**	ug/m3	0.90	0.35	2.01		03/05/17 00:56	106-99-0	
2-Butanone (MEK)	**6.0J**	ug/m3	6.0	0.46	2.01		03/05/17 00:56	78-93-3	
Carbon disulfide	**<0.20**	ug/m3	1.3	0.20	2.01		03/05/17 00:56	75-15-0	
Carbon tetrachloride	**<0.39**	ug/m3	1.3	0.39	2.01		03/05/17 00:56	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		03/05/17 00:56	108-90-7	
Chlorodifluoromethane	**<0.55**	ug/m3	1.4	0.55	2.01		03/05/17 00:56	75-45-6	
Chloroethane	**<0.39**	ug/m3	1.1	0.39	2.01		03/05/17 00:56	75-00-3	
Chloroform	**3.9**	ug/m3	1.0	0.38	2.01		03/05/17 00:56	67-66-3	
Chloromethane	**1.2**	ug/m3	0.84	0.22	2.01		03/05/17 00:56	74-87-3	
Chloropentafluoroethane	**<6.5**	ug/m3	6.5	6.5	2.01		03/05/17 00:56	76-15-3	
Cyclohexane	**1.1J**	ug/m3	1.4	0.64	2.01		03/05/17 00:56	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.9**	ug/m3	9.9	9.9	2.01		03/05/17 00:56	96-12-8	
Dibromochloromethane	**<1.7**	ug/m3	3.5	1.7	2.01		03/05/17 00:56	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.1	1.6	2.01		03/05/17 00:56	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 00:56	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.5	1.1	2.01		03/05/17 00:56	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 00:56	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	2.0	0.96	2.01		03/05/17 00:56	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.6	0.32	2.01		03/05/17 00:56	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/m3	0.82	0.41	2.01		03/05/17 00:56	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.6	0.48	2.01		03/05/17 00:56	75-35-4	
cis-1,2-Dichloroethene	**<0.49**	ug/m3	1.6	0.49	2.01		03/05/17 00:56	156-59-2	
trans-1,2-Dichloroethene	**<0.77**	ug/m3	1.6	0.77	2.01		03/05/17 00:56	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/m3	1.9	0.54	2.01		03/05/17 00:56	78-87-5	
cis-1,3-Dichloropropene	**<0.74**	ug/m3	1.8	0.74	2.01		03/05/17 00:56	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/m3	1.8	0.52	2.01		03/05/17 00:56	10061-02-6	
Dichlorotetrafluoroethane	**<0.62**	ug/m3	2.9	0.62	2.01		03/05/17 00:56	76-14-2	
Freon 123	**<6.4**	ug/m3	6.4	6.4	2.01		03/05/17 00:56	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.71**	ug/m3	7.4	0.71	2.01		03/05/17 00:56	123-91-1	
Ethylbenzene	**<0.85**	ug/m3	1.8	0.85	2.01		03/05/17 00:56	100-41-4	
4-Ethyltoluene	**<0.38**	ug/m3	2.0	0.38	2.01		03/05/17 00:56	622-96-8	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	4.4	1.3	2.01		03/05/17 00:56	87-68-3	
n-Hexane	**2.4**	ug/m3	1.4	0.72	2.01		03/05/17 00:56	110-54-3	
2-Hexanone	**1.0J**	ug/m3	8.4	0.82	2.01		03/05/17 00:56	591-78-6	
Isopropylbenzene (Cumene)	**<0.28**	ug/m3	5.0	0.28	2.01		03/05/17 00:56	98-82-8	
Methyl acetate	**<3.1**	ug/m3	3.1	3.1	2.01		03/05/17 00:56	79-20-9	
Methylcyclohexane	**<0.49**	ug/m3	1.6	0.49	2.01		03/05/17 00:56	108-87-2	
Methylene Chloride	**5.9J**	ug/m3	7.1	1.1	2.01		03/05/17 00:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.44**	ug/m3	8.4	0.44	2.01		03/05/17 00:56	108-10-1	
Methyl-tert-butyl ether	**<0.61**	ug/m3	7.4	0.61	2.01		03/05/17 00:56	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-E16_20170215 **Lab ID: 10379458009** Collected: 02/15/17 17:09 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**102**	ug/m3	5.0	0.48	2.01		03/05/17 00:56	67-63-0	
Styrene	**0.92J**	ug/m3	1.7	0.39	2.01		03/05/17 00:56	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	1.4	0.66	2.01		03/05/17 00:56	79-34-5	
Tetrachloroethene	**1.3J**	ug/m3	1.4	0.56	2.01		03/05/17 00:56	127-18-4	
Toluene	**3.5**	ug/m3	1.5	0.31	2.01		03/05/17 00:56	108-88-3	
1,2,4-Trichlorobenzene	**<1.8**	ug/m3	7.6	1.8	2.01		03/05/17 00:56	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	2.2	0.50	2.01		03/05/17 00:56	71-55-6	
1,1,2-Trichloroethane	**<0.49**	ug/m3	1.1	0.49	2.01		03/05/17 00:56	79-00-5	
Trichloroethene	**<0.55**	ug/m3	1.1	0.55	2.01		03/05/17 00:56	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.3	0.27	2.01		03/05/17 00:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.61**	ug/m3	3.2	0.61	2.01		03/05/17 00:56	76-13-1	
1,2,4-Trimethylbenzene	**<0.25**	ug/m3	2.0	0.25	2.01		03/05/17 00:56	95-63-6	
1,3,5-Trimethylbenzene	**<0.37**	ug/m3	2.0	0.37	2.01		03/05/17 00:56	108-67-8	
Vinyl chloride	**<0.39**	ug/m3	0.52	0.39	2.01		03/05/17 00:56	75-01-4	
m&p-Xylene	**2.3J**	ug/m3	3.6	1.6	2.01		03/05/17 00:56	179601-23-1	
o-Xylene	**<0.71**	ug/m3	1.8	0.71	2.01		03/05/17 00:56	95-47-6	

Sample: IA-D7_20170215 **Lab ID: 10379458010** Collected: 02/15/17 16:06 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**52.9**	ug/m3	4.9	1.7	2.01		03/05/17 13:42	67-64-1	
Allyl chloride	**<0.46**	ug/m3	3.2	0.46	2.01		03/05/17 13:42	107-05-1	
Benzene	**1.5**	ug/m3	0.65	0.25	2.01		03/05/17 13:42	71-43-2	
Bromodichloromethane	**<0.39**	ug/m3	2.7	0.39	2.01		03/05/17 13:42	75-27-4	
Bromoform	**<1.8**	ug/m3	4.2	1.8	2.01		03/05/17 13:42	75-25-2	
Bromomethane	**<0.62**	ug/m3	1.6	0.62	2.01		03/05/17 13:42	74-83-9	
1,3-Butadiene	**<0.35**	ug/m3	0.90	0.35	2.01		03/05/17 13:42	106-99-0	
2-Butanone (MEK)	**5.7J**	ug/m3	6.0	0.46	2.01		03/05/17 13:42	78-93-3	
Carbon disulfide	**<0.20**	ug/m3	1.3	0.20	2.01		03/05/17 13:42	75-15-0	
Carbon tetrachloride	**<0.39**	ug/m3	1.3	0.39	2.01		03/05/17 13:42	56-23-5	
Chlorobenzene	**<0.27**	ug/m3	1.9	0.27	2.01		03/05/17 13:42	108-90-7	
Chlorodifluoromethane	**<0.55**	ug/m3	1.4	0.55	2.01		03/05/17 13:42	75-45-6	
Chloroethane	**<0.39**	ug/m3	1.1	0.39	2.01		03/05/17 13:42	75-00-3	
Chloroform	**3.5**	ug/m3	1.0	0.38	2.01		03/05/17 13:42	67-66-3	
Chloromethane	**<0.22**	ug/m3	0.84	0.22	2.01		03/05/17 13:42	74-87-3	
Chloropentafluoroethane	**<6.5**	ug/m3	6.5	6.5	2.01		03/05/17 13:42	76-15-3	CL
Cyclohexane	**0.75J**	ug/m3	1.4	0.64	2.01		03/05/17 13:42	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.9**	ug/m3	9.9	9.9	2.01		03/05/17 13:42	96-12-8	
Dibromochloromethane	**<1.7**	ug/m3	3.5	1.7	2.01		03/05/17 13:42	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.1	1.6	2.01		03/05/17 13:42	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 13:42	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.5	1.1	2.01		03/05/17 13:42	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-D7_20170215 **Lab ID: 10379458010** Collected: 02/15/17 16:06 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<1.0**	ug/m3	2.5	1.0	2.01		03/05/17 13:42	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	2.0	0.96	2.01		03/05/17 13:42	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.6	0.32	2.01		03/05/17 13:42	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/m3	0.82	0.41	2.01		03/05/17 13:42	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.6	0.48	2.01		03/05/17 13:42	75-35-4	
cis-1,2-Dichloroethene	**<0.49**	ug/m3	1.6	0.49	2.01		03/05/17 13:42	156-59-2	
trans-1,2-Dichloroethene	**<0.77**	ug/m3	1.6	0.77	2.01		03/05/17 13:42	156-60-5	
1,2-Dichloropropane	**<0.54**	ug/m3	1.9	0.54	2.01		03/05/17 13:42	78-87-5	
cis-1,3-Dichloropropene	**<0.74**	ug/m3	1.8	0.74	2.01		03/05/17 13:42	10061-01-5	
trans-1,3-Dichloropropene	**<0.52**	ug/m3	1.8	0.52	2.01		03/05/17 13:42	10061-02-6	
Dichlorotetrafluoroethane	**<0.62**	ug/m3	2.9	0.62	2.01		03/05/17 13:42	76-14-2	
Freon 123	**<6.4**	ug/m3	6.4	6.4	2.01		03/05/17 13:42	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.71**	ug/m3	7.4	0.71	2.01		03/05/17 13:42	123-91-1	
Ethylbenzene	**<0.85**	ug/m3	1.8	0.85	2.01		03/05/17 13:42	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	2.0	0.38	2.01		03/05/17 13:42	622-96-8	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	4.4	1.3	2.01		03/05/17 13:42	87-68-3	
n-Hexane	**<0.72**	ug/m3	1.4	0.72	2.01		03/05/17 13:42	110-54-3	
2-Hexanone	**<0.82**	ug/m3	8.4	0.82	2.01		03/05/17 13:42	591-78-6	
Isopropylbenzene (Cumene)	**<0.28**	ug/m3	5.0	0.28	2.01		03/05/17 13:42	98-82-8	
Methyl acetate	**<3.1**	ug/m3	3.1	3.1	2.01		03/05/17 13:42	79-20-9	
Methylcyclohexane	**<0.49**	ug/m3	1.6	0.49	2.01		03/05/17 13:42	108-87-2	
Methylene Chloride	**7.1**	ug/m3	7.1	1.1	2.01		03/05/17 13:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.44**	ug/m3	8.4	0.44	2.01		03/05/17 13:42	108-10-1	
Methyl-tert-butyl ether	**<0.61**	ug/m3	7.4	0.61	2.01		03/05/17 13:42	1634-04-4	
2-Propanol	**96.7**	ug/m3	5.0	0.48	2.01		03/05/17 13:42	67-63-0	
Styrene	**0.93J**	ug/m3	1.7	0.39	2.01		03/05/17 13:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.66**	ug/m3	1.4	0.66	2.01		03/05/17 13:42	79-34-5	
Tetrachloroethene	**1.2J**	ug/m3	1.4	0.56	2.01		03/05/17 13:42	127-18-4	
Toluene	**3.3**	ug/m3	1.5	0.31	2.01		03/05/17 13:42	108-88-3	
1,2,4-Trichlorobenzene	**<1.8**	ug/m3	7.6	1.8	2.01		03/05/17 13:42	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	2.2	0.50	2.01		03/05/17 13:42	71-55-6	
1,1,2-Trichloroethane	**<0.49**	ug/m3	1.1	0.49	2.01		03/05/17 13:42	79-00-5	
Trichloroethene	**<0.55**	ug/m3	1.1	0.55	2.01		03/05/17 13:42	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.3	0.27	2.01		03/05/17 13:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.61**	ug/m3	3.2	0.61	2.01		03/05/17 13:42	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	2.0	0.25	2.01		03/05/17 13:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.37**	ug/m3	2.0	0.37	2.01		03/05/17 13:42	108-67-8	
Vinyl chloride	**<0.39**	ug/m3	0.52	0.39	2.01		03/05/17 13:42	75-01-4	
m&p-Xylene	**2.7J**	ug/m3	3.6	1.6	2.01		03/05/17 13:42	179601-23-1	
o-Xylene	**0.90J**	ug/m3	1.8	0.71	2.01		03/05/17 13:42	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-D13_20170215 **Lab ID: 10379458011** Collected: 02/15/17 17:06 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**48.5**	ug/m3	5.1	1.8	2.12		03/05/17 14:14	67-64-1	
Allyl chloride	**<0.48**	ug/m3	3.4	0.48	2.12		03/05/17 14:14	107-05-1	
Benzene	**6.8**	ug/m3	0.69	0.26	2.12		03/05/17 14:14	71-43-2	
Bromodichloromethane	**<0.41**	ug/m3	2.9	0.41	2.12		03/05/17 14:14	75-27-4	
Bromoform	**<1.9**	ug/m3	4.5	1.9	2.12		03/05/17 14:14	75-25-2	
Bromomethane	**<0.66**	ug/m3	1.7	0.66	2.12		03/05/17 14:14	74-83-9	
1,3-Butadiene	**<0.37**	ug/m3	0.95	0.37	2.12		03/05/17 14:14	106-99-0	
2-Butanone (MEK)	**<0.48**	ug/m3	6.4	0.48	2.12		03/05/17 14:14	78-93-3	
Carbon disulfide	**<0.21**	ug/m3	1.3	0.21	2.12		03/05/17 14:14	75-15-0	
Carbon tetrachloride	**<0.41**	ug/m3	1.4	0.41	2.12		03/05/17 14:14	56-23-5	
Chlorobenzene	**<0.28**	ug/m3	2.0	0.28	2.12		03/05/17 14:14	108-90-7	
Chlorodifluoromethane	**<0.59**	ug/m3	1.5	0.59	2.12		03/05/17 14:14	75-45-6	
Chloroethane	**<0.41**	ug/m3	1.1	0.41	2.12		03/05/17 14:14	75-00-3	
Chloroform	**8.1**	ug/m3	1.1	0.40	2.12		03/05/17 14:14	67-66-3	
Chloromethane	**<0.23**	ug/m3	0.89	0.23	2.12		03/05/17 14:14	74-87-3	
Chloropentafluoroethane	**<6.8**	ug/m3	6.8	6.8	2.12		03/05/17 14:14	76-15-3	CL
Cyclohexane	**0.82J**	ug/m3	1.5	0.67	2.12		03/05/17 14:14	110-82-7	
1,2-Dibromo-3-chloropropane	**<10.4**	ug/m3	10.4	10.4	2.12		03/05/17 14:14	96-12-8	
Dibromochloromethane	**<1.8**	ug/m3	3.7	1.8	2.12		03/05/17 14:14	124-48-1	
1,2-Dibromoethane (EDB)	**<1.6**	ug/m3	3.3	1.6	2.12		03/05/17 14:14	106-93-4	
1,2-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/05/17 14:14	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/05/17 14:14	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		03/05/17 14:14	106-46-7	
Dichlorodifluoromethane	**2.1J**	ug/m3	2.1	1.0	2.12		03/05/17 14:14	75-71-8	
1,1-Dichloroethane	**<0.33**	ug/m3	1.7	0.33	2.12		03/05/17 14:14	75-34-3	
1,2-Dichloroethane	**<0.43**	ug/m3	0.87	0.43	2.12		03/05/17 14:14	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/m3	1.7	0.50	2.12		03/05/17 14:14	75-35-4	
cis-1,2-Dichloroethene	**<0.52**	ug/m3	1.7	0.52	2.12		03/05/17 14:14	156-59-2	
trans-1,2-Dichloroethene	**3.1**	ug/m3	1.7	0.81	2.12		03/05/17 14:14	156-60-5	
1,2-Dichloropropane	**<0.57**	ug/m3	2.0	0.57	2.12		03/05/17 14:14	78-87-5	
cis-1,3-Dichloropropene	**<0.78**	ug/m3	2.0	0.78	2.12		03/05/17 14:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.55**	ug/m3	2.0	0.55	2.12		03/05/17 14:14	10061-02-6	
Dichlorotetrafluoroethane	**<0.66**	ug/m3	3.0	0.66	2.12		03/05/17 14:14	76-14-2	
Freon 123	**<6.7**	ug/m3	6.7	6.7	2.12		03/05/17 14:14	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.75**	ug/m3	7.8	0.75	2.12		03/05/17 14:14	123-91-1	
Ethylbenzene	**<0.90**	ug/m3	1.9	0.90	2.12		03/05/17 14:14	100-41-4	
4-Ethyltoluene	**1.3J**	ug/m3	2.1	0.40	2.12		03/05/17 14:14	622-96-8	
Hexachloro-1,3-butadiene	**<1.4**	ug/m3	4.6	1.4	2.12		03/05/17 14:14	87-68-3	
n-Hexane	**1.4J**	ug/m3	1.5	0.76	2.12		03/05/17 14:14	110-54-3	
2-Hexanone	**<0.87**	ug/m3	8.8	0.87	2.12		03/05/17 14:14	591-78-6	
Isopropylbenzene (Cumene)	**<0.29**	ug/m3	5.3	0.29	2.12		03/05/17 14:14	98-82-8	
Methyl acetate	**<3.3**	ug/m3	3.3	3.3	2.12		03/05/17 14:14	79-20-9	
Methylcyclohexane	**<0.51**	ug/m3	1.7	0.51	2.12		03/05/17 14:14	108-87-2	
Methylene Chloride	**4.0J**	ug/m3	7.5	1.1	2.12		03/05/17 14:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.46**	ug/m3	8.8	0.46	2.12		03/05/17 14:14	108-10-1	
Methyl-tert-butyl ether	**<0.64**	ug/m3	7.8	0.64	2.12		03/05/17 14:14	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-D13_20170215 **Lab ID: 10379458011** Collected: 02/15/17 17:06 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**66.3**	ug/m3	5.3	0.51	2.12		03/05/17 14:14	67-63-0	
Styrene	**1.0J**	ug/m3	1.8	0.41	2.12		03/05/17 14:14	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.70**	ug/m3	1.5	0.70	2.12		03/05/17 14:14	79-34-5	
Tetrachloroethene	**49.3**	ug/m3	1.5	0.59	2.12		03/05/17 14:14	127-18-4	
Toluene	**6.5**	ug/m3	1.6	0.33	2.12		03/05/17 14:14	108-88-3	
1,2,4-Trichlorobenzene	**<1.9**	ug/m3	8.0	1.9	2.12		03/05/17 14:14	120-82-1	
1,1,1-Trichloroethane	**<0.52**	ug/m3	2.4	0.52	2.12		03/05/17 14:14	71-55-6	
1,1,2-Trichloroethane	**<0.52**	ug/m3	1.2	0.52	2.12		03/05/17 14:14	79-00-5	
Trichloroethene	**5.0**	ug/m3	1.2	0.59	2.12		03/05/17 14:14	79-01-6	
Trichlorofluoromethane	**2.5**	ug/m3	2.4	0.28	2.12		03/05/17 14:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	**4.9**	ug/m3	3.4	0.64	2.12		03/05/17 14:14	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	2.1	0.26	2.12		03/05/17 14:14	95-63-6	
1,3,5-Trimethylbenzene	**<0.39**	ug/m3	2.1	0.39	2.12		03/05/17 14:14	108-67-8	
Vinyl chloride	**<0.41**	ug/m3	0.55	0.41	2.12		03/05/17 14:14	75-01-4	
m&p-Xylene	**3.3J**	ug/m3	3.8	1.7	2.12		03/05/17 14:14	179601-23-1	
o-Xylene	**1.5J**	ug/m3	1.9	0.74	2.12		03/05/17 14:14	95-47-6	

Sample: IA-G18_20170215 **Lab ID: 10379458012** Collected: 02/15/17 15:30 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**32.0**	ug/m3	4.4	1.5	1.83		03/05/17 14:45	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/05/17 14:45	107-05-1	
Benzene	**1.5**	ug/m3	0.59	0.22	1.83		03/05/17 14:45	71-43-2	
Bromodichloromethane	**<0.36**	ug/m3	2.5	0.36	1.83		03/05/17 14:45	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/05/17 14:45	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/05/17 14:45	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/05/17 14:45	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/05/17 14:45	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/05/17 14:45	75-15-0	
Carbon tetrachloride	**<0.35**	ug/m3	1.2	0.35	1.83		03/05/17 14:45	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/05/17 14:45	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/05/17 14:45	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/05/17 14:45	75-00-3	
Chloroform	**4.2**	ug/m3	0.91	0.35	1.83		03/05/17 14:45	67-66-3	
Chloromethane	**1.2**	ug/m3	0.77	0.20	1.83		03/05/17 14:45	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/05/17 14:45	76-15-3	CL
Cyclohexane	**0.72J**	ug/m3	1.3	0.58	1.83		03/05/17 14:45	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/05/17 14:45	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/05/17 14:45	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/05/17 14:45	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/05/17 14:45	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/05/17 14:45	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-G18_20170215 **Lab ID: 10379458012** Collected: 02/15/17 15:30 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/05/17 14:45	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.8	0.88	1.83		03/05/17 14:45	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/05/17 14:45	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/05/17 14:45	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/05/17 14:45	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/05/17 14:45	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/05/17 14:45	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/05/17 14:45	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/05/17 14:45	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/05/17 14:45	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/05/17 14:45	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/05/17 14:45	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/05/17 14:45	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/05/17 14:45	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.8	0.34	1.83		03/05/17 14:45	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/05/17 14:45	87-68-3	
n-Hexane	**1.4**	ug/m3	1.3	0.65	1.83		03/05/17 14:45	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/05/17 14:45	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/05/17 14:45	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/05/17 14:45	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/05/17 14:45	108-87-2	
Methylene Chloride	**4.5J**	ug/m3	6.5	0.99	1.83		03/05/17 14:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/05/17 14:45	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/05/17 14:45	1634-04-4	
2-Propanol	**107**	ug/m3	4.6	0.44	1.83		03/05/17 14:45	67-63-0	
Styrene	**0.81J**	ug/m3	1.6	0.35	1.83		03/05/17 14:45	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/05/17 14:45	79-34-5	
Tetrachloroethene	**1.1J**	ug/m3	1.3	0.51	1.83		03/05/17 14:45	127-18-4	
Toluene	**3.3**	ug/m3	1.4	0.28	1.83		03/05/17 14:45	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/05/17 14:45	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/05/17 14:45	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/05/17 14:45	79-00-5	
Trichloroethene	**<0.51**	ug/m3	1.0	0.51	1.83		03/05/17 14:45	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.1	0.24	1.83		03/05/17 14:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/05/17 14:45	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/05/17 14:45	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/05/17 14:45	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/05/17 14:45	75-01-4	
m&p-Xylene	**2.2J**	ug/m3	3.2	1.4	1.83		03/05/17 14:45	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/05/17 14:45	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-12_20170215 **Lab ID: 10379458013** Collected: 02/15/17 16:21 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.1**	ug/m3	4.4	1.5	1.83		03/05/17 15:16	67-64-1	
Allyl chloride	**<0.42**	ug/m3	2.9	0.42	1.83		03/05/17 15:16	107-05-1	
Benzene	**0.53J**	ug/m3	0.59	0.22	1.83		03/05/17 15:16	71-43-2	
Bromodichloromethane	**2.1J**	ug/m3	2.5	0.36	1.83		03/05/17 15:16	75-27-4	
Bromoform	**<1.6**	ug/m3	3.8	1.6	1.83		03/05/17 15:16	75-25-2	
Bromomethane	**<0.57**	ug/m3	1.4	0.57	1.83		03/05/17 15:16	74-83-9	
1,3-Butadiene	**<0.32**	ug/m3	0.82	0.32	1.83		03/05/17 15:16	106-99-0	
2-Butanone (MEK)	**<0.42**	ug/m3	5.5	0.42	1.83		03/05/17 15:16	78-93-3	
Carbon disulfide	**<0.18**	ug/m3	1.2	0.18	1.83		03/05/17 15:16	75-15-0	
Carbon tetrachloride	**0.68J**	ug/m3	1.2	0.35	1.83		03/05/17 15:16	56-23-5	
Chlorobenzene	**<0.25**	ug/m3	1.7	0.25	1.83		03/05/17 15:16	108-90-7	
Chlorodifluoromethane	**<0.51**	ug/m3	1.3	0.51	1.83		03/05/17 15:16	75-45-6	
Chloroethane	**<0.36**	ug/m3	0.99	0.36	1.83		03/05/17 15:16	75-00-3	
Chloroform	**98.7**	ug/m3	0.91	0.35	1.83		03/05/17 15:16	67-66-3	
Chloromethane	**<0.20**	ug/m3	0.77	0.20	1.83		03/05/17 15:16	74-87-3	
Chloropentafluoroethane	**<5.9**	ug/m3	5.9	5.9	1.83		03/05/17 15:16	76-15-3	CL
Cyclohexane	**<0.58**	ug/m3	1.3	0.58	1.83		03/05/17 15:16	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.0**	ug/m3	9.0	9.0	1.83		03/05/17 15:16	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.2	1.6	1.83		03/05/17 15:16	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/m3	2.9	1.4	1.83		03/05/17 15:16	106-93-4	
1,2-Dichlorobenzene	**<0.94**	ug/m3	2.2	0.94	1.83		03/05/17 15:16	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/m3	2.2	0.97	1.83		03/05/17 15:16	541-73-1	
1,4-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/05/17 15:16	106-46-7	
Dichlorodifluoromethane	**<0.88**	ug/m3	1.8	0.88	1.83		03/05/17 15:16	75-71-8	
1,1-Dichloroethane	**<0.29**	ug/m3	1.5	0.29	1.83		03/05/17 15:16	75-34-3	
1,2-Dichloroethane	**<0.38**	ug/m3	0.75	0.38	1.83		03/05/17 15:16	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.5	0.44	1.83		03/05/17 15:16	75-35-4	
cis-1,2-Dichloroethene	**<0.45**	ug/m3	1.5	0.45	1.83		03/05/17 15:16	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/m3	1.5	0.70	1.83		03/05/17 15:16	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	1.7	0.49	1.83		03/05/17 15:16	78-87-5	
cis-1,3-Dichloropropene	**<0.68**	ug/m3	1.7	0.68	1.83		03/05/17 15:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/m3	1.7	0.48	1.83		03/05/17 15:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.57**	ug/m3	2.6	0.57	1.83		03/05/17 15:16	76-14-2	
Freon 123	**<5.8**	ug/m3	5.8	5.8	1.83		03/05/17 15:16	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.64**	ug/m3	6.7	0.64	1.83		03/05/17 15:16	123-91-1	
Ethylbenzene	**<0.78**	ug/m3	1.6	0.78	1.83		03/05/17 15:16	100-41-4	
4-Ethyltoluene	**<0.34**	ug/m3	1.8	0.34	1.83		03/05/17 15:16	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.0	1.2	1.83		03/05/17 15:16	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.65	1.83		03/05/17 15:16	110-54-3	
2-Hexanone	**<0.75**	ug/m3	7.6	0.75	1.83		03/05/17 15:16	591-78-6	
Isopropylbenzene (Cumene)	**<0.25**	ug/m3	4.6	0.25	1.83		03/05/17 15:16	98-82-8	
Methyl acetate	**<2.8**	ug/m3	2.8	2.8	1.83		03/05/17 15:16	79-20-9	
Methylcyclohexane	**<0.44**	ug/m3	1.5	0.44	1.83		03/05/17 15:16	108-87-2	
Methylene Chloride	**5.2J**	ug/m3	6.5	0.99	1.83		03/05/17 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.40**	ug/m3	7.6	0.40	1.83		03/05/17 15:16	108-10-1	
Methyl-tert-butyl ether	**<0.55**	ug/m3	6.7	0.55	1.83		03/05/17 15:16	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-12_20170215 **Lab ID: 10379458013** Collected: 02/15/17 16:21 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**2.6J**	ug/m3	4.6	0.44	1.83		03/05/17 15:16	67-63-0	
Styrene	**<0.35**	ug/m3	1.6	0.35	1.83		03/05/17 15:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.60**	ug/m3	1.3	0.60	1.83		03/05/17 15:16	79-34-5	
Tetrachloroethene	**8.4**	ug/m3	1.3	0.51	1.83		03/05/17 15:16	127-18-4	
Toluene	**1.6**	ug/m3	1.4	0.28	1.83		03/05/17 15:16	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	6.9	1.7	1.83		03/05/17 15:16	120-82-1	
1,1,1-Trichloroethane	**<0.45**	ug/m3	2.0	0.45	1.83		03/05/17 15:16	71-55-6	
1,1,2-Trichloroethane	**<0.45**	ug/m3	1.0	0.45	1.83		03/05/17 15:16	79-00-5	
Trichloroethene	**4.0**	ug/m3	1.0	0.51	1.83		03/05/17 15:16	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.1	0.24	1.83		03/05/17 15:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.55**	ug/m3	2.9	0.55	1.83		03/05/17 15:16	76-13-1	
1,2,4-Trimethylbenzene	**<0.23**	ug/m3	1.8	0.23	1.83		03/05/17 15:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/m3	1.8	0.33	1.83		03/05/17 15:16	108-67-8	
Vinyl chloride	**<0.36**	ug/m3	0.48	0.36	1.83		03/05/17 15:16	75-01-4	
m&p-Xylene	**<1.4**	ug/m3	3.2	1.4	1.83		03/05/17 15:16	179601-23-1	
o-Xylene	**<0.64**	ug/m3	1.6	0.64	1.83		03/05/17 15:16	95-47-6	

Sample: IA-C20_20170215DUP **Lab ID: 10379458014** Collected: 02/15/17 16:03 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**33.5**	ug/m3	4.6	1.6	1.92		03/05/17 15:48	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 15:48	107-05-1	
Benzene	**1.5**	ug/m3	0.62	0.23	1.92		03/05/17 15:48	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 15:48	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 15:48	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 15:48	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 15:48	106-99-0	
2-Butanone (MEK)	**3.6J**	ug/m3	5.8	0.44	1.92		03/05/17 15:48	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 15:48	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/05/17 15:48	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 15:48	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/05/17 15:48	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 15:48	75-00-3	
Chloroform	**3.3**	ug/m3	0.95	0.36	1.92		03/05/17 15:48	67-66-3	
Chloromethane	**0.83**	ug/m3	0.81	0.21	1.92		03/05/17 15:48	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 15:48	76-15-3	CL
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/05/17 15:48	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 15:48	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 15:48	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 15:48	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 15:48	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 15:48	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: IA-C20_20170215DUP **Lab ID: 10379458014** Collected: 02/15/17 16:03 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 15:48	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.9	0.92	1.92		03/05/17 15:48	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 15:48	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 15:48	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 15:48	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/05/17 15:48	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/05/17 15:48	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 15:48	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 15:48	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 15:48	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 15:48	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 15:48	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 15:48	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/05/17 15:48	100-41-4	
4-Ethyltoluene	**1.2J**	ug/m3	1.9	0.36	1.92		03/05/17 15:48	622-96-8	
Hexachloro-1,3-butadiene	**<1.2**	ug/m3	4.2	1.2	1.92		03/05/17 15:48	87-68-3	
n-Hexane	**1.7**	ug/m3	1.4	0.69	1.92		03/05/17 15:48	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 15:48	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 15:48	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 15:48	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 15:48	108-87-2	
Methylene Chloride	**5.2J**	ug/m3	6.8	1.0	1.92		03/05/17 15:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 15:48	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/05/17 15:48	1634-04-4	
2-Propanol	**89.6**	ug/m3	4.8	0.46	1.92		03/05/17 15:48	67-63-0	
Styrene	**0.85J**	ug/m3	1.7	0.37	1.92		03/05/17 15:48	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 15:48	79-34-5	
Tetrachloroethene	**1.2J**	ug/m3	1.3	0.53	1.92		03/05/17 15:48	127-18-4	
Toluene	**3.0**	ug/m3	1.5	0.30	1.92		03/05/17 15:48	108-88-3	
1,2,4-Trichlorobenzene	**<1.7**	ug/m3	7.2	1.7	1.92		03/05/17 15:48	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/05/17 15:48	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/05/17 15:48	79-00-5	
Trichloroethene	**<0.53**	ug/m3	1.1	0.53	1.92		03/05/17 15:48	79-01-6	
Trichlorofluoromethane	**1.1J**	ug/m3	2.2	0.25	1.92		03/05/17 15:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/05/17 15:48	76-13-1	
1,2,4-Trimethylbenzene	**<0.24**	ug/m3	1.9	0.24	1.92		03/05/17 15:48	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/05/17 15:48	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 15:48	75-01-4	
m&p-Xylene	**2.1J**	ug/m3	3.4	1.5	1.92		03/05/17 15:48	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/05/17 15:48	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-C1_20170215DUP **Lab ID: 10379458015** Collected: 02/15/17 16:38 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**7.9**	ug/m3	4.6	1.6	1.92		03/05/17 16:19	67-64-1	
Allyl chloride	**<0.44**	ug/m3	3.1	0.44	1.92		03/05/17 16:19	107-05-1	
Benzene	**<0.23**	ug/m3	0.62	0.23	1.92		03/05/17 16:19	71-43-2	
Bromodichloromethane	**<0.37**	ug/m3	2.6	0.37	1.92		03/05/17 16:19	75-27-4	
Bromoform	**<1.7**	ug/m3	4.0	1.7	1.92		03/05/17 16:19	75-25-2	
Bromomethane	**<0.60**	ug/m3	1.5	0.60	1.92		03/05/17 16:19	74-83-9	
1,3-Butadiene	**<0.34**	ug/m3	0.86	0.34	1.92		03/05/17 16:19	106-99-0	
2-Butanone (MEK)	**<0.44**	ug/m3	5.8	0.44	1.92		03/05/17 16:19	78-93-3	
Carbon disulfide	**<0.19**	ug/m3	1.2	0.19	1.92		03/05/17 16:19	75-15-0	
Carbon tetrachloride	**<0.37**	ug/m3	1.2	0.37	1.92		03/05/17 16:19	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.8	0.26	1.92		03/05/17 16:19	108-90-7	
Chlorodifluoromethane	**<0.53**	ug/m3	1.4	0.53	1.92		03/05/17 16:19	75-45-6	
Chloroethane	**<0.37**	ug/m3	1.0	0.37	1.92		03/05/17 16:19	75-00-3	
Chloroform	**<0.36**	ug/m3	0.95	0.36	1.92		03/05/17 16:19	67-66-3	
Chloromethane	**<0.21**	ug/m3	0.81	0.21	1.92		03/05/17 16:19	74-87-3	
Chloropentafluoroethane	**<6.2**	ug/m3	6.2	6.2	1.92		03/05/17 16:19	76-15-3	CL
Cyclohexane	**<0.61**	ug/m3	1.3	0.61	1.92		03/05/17 16:19	110-82-7	
1,2-Dibromo-3-chloropropane	**<9.4**	ug/m3	9.4	9.4	1.92		03/05/17 16:19	96-12-8	
Dibromochloromethane	**<1.6**	ug/m3	3.3	1.6	1.92		03/05/17 16:19	124-48-1	
1,2-Dibromoethane (EDB)	**<1.5**	ug/m3	3.0	1.5	1.92		03/05/17 16:19	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.3	0.98	1.92		03/05/17 16:19	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.3	1.0	1.92		03/05/17 16:19	541-73-1	
1,4-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/05/17 16:19	106-46-7	
Dichlorodifluoromethane	**2.1**	ug/m3	1.9	0.92	1.92		03/05/17 16:19	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.6	0.30	1.92		03/05/17 16:19	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/m3	0.79	0.39	1.92		03/05/17 16:19	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 16:19	75-35-4	
cis-1,2-Dichloroethene	**<0.47**	ug/m3	1.6	0.47	1.92		03/05/17 16:19	156-59-2	
trans-1,2-Dichloroethene	**<0.74**	ug/m3	1.6	0.74	1.92		03/05/17 16:19	156-60-5	
1,2-Dichloropropane	**<0.52**	ug/m3	1.8	0.52	1.92		03/05/17 16:19	78-87-5	
cis-1,3-Dichloropropene	**<0.71**	ug/m3	1.8	0.71	1.92		03/05/17 16:19	10061-01-5	
trans-1,3-Dichloropropene	**<0.50**	ug/m3	1.8	0.50	1.92		03/05/17 16:19	10061-02-6	
Dichlorotetrafluoroethane	**<0.60**	ug/m3	2.7	0.60	1.92		03/05/17 16:19	76-14-2	
Freon 123	**<6.1**	ug/m3	6.1	6.1	1.92		03/05/17 16:19	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.68**	ug/m3	7.0	0.68	1.92		03/05/17 16:19	123-91-1	
Ethylbenzene	**<0.82**	ug/m3	1.7	0.82	1.92		03/05/17 16:19	100-41-4	
4-Ethyltoluene	**<0.36**	ug/m3	1.9	0.36	1.92		03/05/17 16:19	622-96-8	
Hexachloro-1,3-butadiene	**13.8**	ug/m3	4.2	1.2	1.92		03/05/17 16:19	87-68-3	
n-Hexane	**<0.69**	ug/m3	1.4	0.69	1.92		03/05/17 16:19	110-54-3	
2-Hexanone	**<0.79**	ug/m3	8.0	0.79	1.92		03/05/17 16:19	591-78-6	
Isopropylbenzene (Cumene)	**<0.26**	ug/m3	4.8	0.26	1.92		03/05/17 16:19	98-82-8	
Methyl acetate	**<3.0**	ug/m3	3.0	3.0	1.92		03/05/17 16:19	79-20-9	
Methylcyclohexane	**<0.46**	ug/m3	1.6	0.46	1.92		03/05/17 16:19	108-87-2	
Methylene Chloride	**<1.0**	ug/m3	6.8	1.0	1.92		03/05/17 16:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/m3	8.0	0.42	1.92		03/05/17 16:19	108-10-1	
Methyl-tert-butyl ether	**<0.58**	ug/m3	7.0	0.58	1.92		03/05/17 16:19	1634-04-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: SS-C1_20170215DUP **Lab ID: 10379458015** Collected: 02/15/17 16:38 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
2-Propanol	**4.7J**	ug/m3	4.8	0.46	1.92		03/05/17 16:19	67-63-0	
Styrene	**<0.37**	ug/m3	1.7	0.37	1.92		03/05/17 16:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.63**	ug/m3	1.3	0.63	1.92		03/05/17 16:19	79-34-5	
Tetrachloroethene	**9.0**	ug/m3	1.3	0.53	1.92		03/05/17 16:19	127-18-4	
Toluene	**0.83J**	ug/m3	1.5	0.30	1.92		03/05/17 16:19	108-88-3	
1,2,4-Trichlorobenzene	**10.5**	ug/m3	7.2	1.7	1.92		03/05/17 16:19	120-82-1	
1,1,1-Trichloroethane	**<0.47**	ug/m3	2.1	0.47	1.92		03/05/17 16:19	71-55-6	
1,1,2-Trichloroethane	**<0.47**	ug/m3	1.1	0.47	1.92		03/05/17 16:19	79-00-5	
Trichloroethene	**80.1**	ug/m3	1.1	0.53	1.92		03/05/17 16:19	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.2	0.25	1.92		03/05/17 16:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.58**	ug/m3	3.1	0.58	1.92		03/05/17 16:19	76-13-1	
1,2,4-Trimethylbenzene	**<0.24**	ug/m3	1.9	0.24	1.92		03/05/17 16:19	95-63-6	
1,3,5-Trimethylbenzene	**<0.35**	ug/m3	1.9	0.35	1.92		03/05/17 16:19	108-67-8	
Vinyl chloride	**<0.37**	ug/m3	0.50	0.37	1.92		03/05/17 16:19	75-01-4	
m&p-Xylene	**<1.5**	ug/m3	3.4	1.5	1.92		03/05/17 16:19	179601-23-1	
o-Xylene	**<0.67**	ug/m3	1.7	0.67	1.92		03/05/17 16:19	95-47-6	

Sample: AA_20170215 **Lab ID: 10379458016** Collected: 02/15/17 15:49 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**10.2**	ug/m3	3.9	1.3	1.61		03/05/17 17:17	67-64-1	
Allyl chloride	**<0.37**	ug/m3	2.6	0.37	1.61		03/05/17 17:17	107-05-1	
Benzene	**1.5**	ug/m3	0.52	0.20	1.61		03/05/17 17:17	71-43-2	
Bromodichloromethane	**<0.31**	ug/m3	2.2	0.31	1.61		03/05/17 17:17	75-27-4	
Bromoform	**<1.5**	ug/m3	3.4	1.5	1.61		03/05/17 17:17	75-25-2	
Bromomethane	**<0.50**	ug/m3	1.3	0.50	1.61		03/05/17 17:17	74-83-9	
1,3-Butadiene	**<0.28**	ug/m3	0.72	0.28	1.61		03/05/17 17:17	106-99-0	
2-Butanone (MEK)	**<0.37**	ug/m3	4.8	0.37	1.61		03/05/17 17:17	78-93-3	
Carbon disulfide	**<0.16**	ug/m3	1.0	0.16	1.61		03/05/17 17:17	75-15-0	
Carbon tetrachloride	**<0.31**	ug/m3	1.0	0.31	1.61		03/05/17 17:17	56-23-5	
Chlorobenzene	**<0.22**	ug/m3	1.5	0.22	1.61		03/05/17 17:17	108-90-7	
Chlorodifluoromethane	**<0.44**	ug/m3	1.2	0.44	1.61		03/05/17 17:17	75-45-6	
Chloroethane	**<0.31**	ug/m3	0.87	0.31	1.61		03/05/17 17:17	75-00-3	
Chloroform	**<0.31**	ug/m3	0.80	0.31	1.61		03/05/17 17:17	67-66-3	
Chloromethane	**<0.17**	ug/m3	0.68	0.17	1.61		03/05/17 17:17	74-87-3	
Chloropentafluoroethane	**<5.2**	ug/m3	5.2	5.2	1.61		03/05/17 17:17	76-15-3	CL
Cyclohexane	**0.62J**	ug/m3	1.1	0.51	1.61		03/05/17 17:17	110-82-7	
1,2-Dibromo-3-chloropropane	**<7.9**	ug/m3	7.9	7.9	1.61		03/05/17 17:17	96-12-8	
Dibromochloromethane	**<1.4**	ug/m3	2.8	1.4	1.61		03/05/17 17:17	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/m3	2.5	1.2	1.61		03/05/17 17:17	106-93-4	
1,2-Dichlorobenzene	**<0.82**	ug/m3	2.0	0.82	1.61		03/05/17 17:17	95-50-1	
1,3-Dichlorobenzene	**<0.85**	ug/m3	2.0	0.85	1.61		03/05/17 17:17	541-73-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample: AA_20170215 **Lab ID: 10379458016** Collected: 02/15/17 15:49 Received: 02/17/17 09:45 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,4-Dichlorobenzene	**<0.80**	ug/m3	2.0	0.80	1.61		03/05/17 17:17	106-46-7	
Dichlorodifluoromethane	**2.2**	ug/m3	1.6	0.77	1.61		03/05/17 17:17	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/m3	1.3	0.25	1.61		03/05/17 17:17	75-34-3	
1,2-Dichloroethane	**<0.33**	ug/m3	0.66	0.33	1.61		03/05/17 17:17	107-06-2	
1,1-Dichloroethene	**<0.38**	ug/m3	1.3	0.38	1.61		03/05/17 17:17	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.3	0.40	1.61		03/05/17 17:17	156-59-2	
trans-1,2-Dichloroethene	**<0.62**	ug/m3	1.3	0.62	1.61		03/05/17 17:17	156-60-5	
1,2-Dichloropropane	**<0.43**	ug/m3	1.5	0.43	1.61		03/05/17 17:17	78-87-5	
cis-1,3-Dichloropropene	**<0.59**	ug/m3	1.5	0.59	1.61		03/05/17 17:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.42**	ug/m3	1.5	0.42	1.61		03/05/17 17:17	10061-02-6	
Dichlorotetrafluoroethane	**<0.50**	ug/m3	2.3	0.50	1.61		03/05/17 17:17	76-14-2	
Freon 123	**<5.1**	ug/m3	5.1	5.1	1.61		03/05/17 17:17	306-83-2	
1,4-Dioxane (p-Dioxane)	**<0.57**	ug/m3	5.9	0.57	1.61		03/05/17 17:17	123-91-1	
Ethylbenzene	**<0.68**	ug/m3	1.4	0.68	1.61		03/05/17 17:17	100-41-4	
4-Ethyltoluene	**1.0J**	ug/m3	1.6	0.30	1.61		03/05/17 17:17	622-96-8	
Hexachloro-1,3-butadiene	**<1.0**	ug/m3	3.5	1.0	1.61		03/05/17 17:17	87-68-3	
n-Hexane	**1.5**	ug/m3	1.2	0.57	1.61		03/05/17 17:17	110-54-3	
2-Hexanone	**<0.66**	ug/m3	6.7	0.66	1.61		03/05/17 17:17	591-78-6	
Isopropylbenzene (Cumene)	**<0.22**	ug/m3	4.0	0.22	1.61		03/05/17 17:17	98-82-8	
Methyl acetate	**<2.5**	ug/m3	2.5	2.5	1.61		03/05/17 17:17	79-20-9	
Methylcyclohexane	**<0.39**	ug/m3	1.3	0.39	1.61		03/05/17 17:17	108-87-2	
Methylene Chloride	**4.6J**	ug/m3	5.7	0.87	1.61		03/05/17 17:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.35**	ug/m3	6.7	0.35	1.61		03/05/17 17:17	108-10-1	
Methyl-tert-butyl ether	**<0.49**	ug/m3	5.9	0.49	1.61		03/05/17 17:17	1634-04-4	
2-Propanol	**2.5J**	ug/m3	4.0	0.39	1.61		03/05/17 17:17	67-63-0	
Styrene	**<0.31**	ug/m3	1.4	0.31	1.61		03/05/17 17:17	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.53**	ug/m3	1.1	0.53	1.61		03/05/17 17:17	79-34-5	
Tetrachloroethene	**1.2**	ug/m3	1.1	0.45	1.61		03/05/17 17:17	127-18-4	
Toluene	**2.8**	ug/m3	1.2	0.25	1.61		03/05/17 17:17	108-88-3	
1,2,4-Trichlorobenzene	**<1.5**	ug/m3	6.1	1.5	1.61		03/05/17 17:17	120-82-1	
1,1,1-Trichloroethane	**<0.40**	ug/m3	1.8	0.40	1.61		03/05/17 17:17	71-55-6	
1,1,2-Trichloroethane	**<0.40**	ug/m3	0.89	0.40	1.61		03/05/17 17:17	79-00-5	
Trichloroethene	**<0.44**	ug/m3	0.89	0.44	1.61		03/05/17 17:17	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	1.8	0.21	1.61		03/05/17 17:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.48**	ug/m3	2.6	0.48	1.61		03/05/17 17:17	76-13-1	
1,2,4-Trimethylbenzene	**<0.20**	ug/m3	1.6	0.20	1.61		03/05/17 17:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.29**	ug/m3	1.6	0.29	1.61		03/05/17 17:17	108-67-8	
Vinyl chloride	**<0.31**	ug/m3	0.42	0.31	1.61		03/05/17 17:17	75-01-4	
m&p-Xylene	**1.8J**	ug/m3	2.8	1.3	1.61		03/05/17 17:17	179601-23-1	
o-Xylene	**<0.57**	ug/m3	1.4	0.57	1.61		03/05/17 17:17	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Appendix C

Support Documentation

ANALYTE	ORIGINAL IA-C20_20170215	DUPLICATE IA-C20_20170215 DUP	RL	RPD	RPD > 50%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
1,2,4-TRIMETHYLBENZENE	0.98	1.9	1.9	63.889	TRUE	FALSE	FALSE	FALSE
1-ETHYL-4-METHYL BENZENE	1.2	1.2	1.9	0.000	FALSE	FALSE	FALSE	FALSE
2-BUTANONE	2.6	3.6	5.8	32.258	FALSE	FALSE	FALSE	FALSE
ACETONE	32.4	33.5	4.6	3.338	FALSE	TRUE	TRUE	FALSE
BENZENE	1.5	1.5	0.62	0.000	FALSE	TRUE	TRUE	FALSE
CHLOROFORM	3.9	3.3	0.95	16.667	FALSE	TRUE	TRUE	FALSE
CHLOROMETHANE	1.1	0.83	0.81	27.979	FALSE	FALSE	FALSE	FALSE
CYCLOHEXANE	0.71	1.3	1.3	58.706	TRUE	FALSE	FALSE	FALSE
DICHLORODIFLUOROMETHANE	2	2.1	1.9	4.878	FALSE	FALSE	FALSE	FALSE
HEXANE	1.4	1.7	1.4	19.355	FALSE	FALSE	FALSE	FALSE
ISOPROPANOL	93.6	89.6	4.8	4.367	FALSE	TRUE	TRUE	FALSE
M+P-XYLENES	2	2.1	3.4	4.878	FALSE	FALSE	FALSE	FALSE
METHYLENE CHLORIDE	3.3	5.2	6.8	44.706	FALSE	FALSE	FALSE	FALSE
STYRENE	0.84	0.85	1.7	1.183	FALSE	FALSE	FALSE	FALSE
TETRACHLOROETHENE	1.3	1.2	1.3	8.000	FALSE	FALSE	FALSE	FALSE
TOLUENE	3.2	3	1.5	6.452	FALSE	TRUE	FALSE	FALSE
TRICHLOROFLUOROMETHANE	1.1	1.1	2.2	0.000	FALSE	FALSE	FALSE	FALSE

ANALYTE	ORIGINAL SS-C1_20170215	DUPLICATE SS-C1_20170215 DUP	RL	RPD	RPD > 50%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
2-BUTANONE	9.2	5.8	5.8	45.333	FALSE	FALSE	FALSE	FALSE
2-HEXANONE	1.7	8	8	129.897	TRUE	FALSE	FALSE	FALSE
ACETONE	24	7.9	4.6	100.940	TRUE	TRUE	FALSE	TRUE
DICHLORODIFLUOROMETHANE	2.2	2.1	1.9	4.651	FALSE	FALSE	FALSE	FALSE
HEXANE	3.2	1.4	1.4	78.261	TRUE	TRUE	FALSE	FALSE
ISOPROPANOL	5.8	4.7	4.8	20.952	FALSE	FALSE	FALSE	FALSE
METHYLENE CHLORIDE	20.6	6.8	6.8	100.730	TRUE	TRUE	FALSE	TRUE
TETRACHLOROETHENE	8.9	9	1.3	1.117	FALSE	TRUE	TRUE	FALSE
TOLUENE	1.5	0.83	1.5	57.511	TRUE	FALSE	FALSE	FALSE
TRICHLOROETHENE	80.6	80.1	1.1	0.622	FALSE	TRUE	TRUE	FALSE
TRICHLOROFLUOROMETHANE	1.3	1.3	2.2	0.000	FALSE	FALSE	FALSE	FALSE
1,2,4-TRICHLOROBENZENE	7.2	10.5	7.2	37.288	FALSE	FALSE	FALSE	FALSE
HEXACHLOROBUTADIENE	4.2	13.8	4.2	106.667	TRUE	FALSE	TRUE	TRUE

Pace Analytical®
www.pacelabs.com

103794458

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26553

Page: 1 of 2

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 226, SUITE 104E
WHITEHOUSE STATION, NJ 08889
Email To: DALLAS.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELLOTT
Copy To:
Purchase Order No.:
Project Name: LMC GREAT NECK
Project Number: 117-2507641

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	SS-C1_20170215	6LC		2/15/17	0957	2/15/17	1603	-30	-10	2812	0363							X			001
2	SS-C20_20170215				1011		1638	-30	-9	2684	1083							X			002
3	SS-E16_20170215				0951		1558	-26	-9	2383	1104							X			003
4	SS-D7_20170215				1006		1618	-30	-10	2292	0408							X			004
5	SS-D13_20170215				1021		1537	-29	-10	2835	0249							X			005
6	SS-G18_20170215				0901		1531	-28	-9	2045	0312							X			006
7	IA-C1_20170215				1019		1617	-28	-10	2324	1063							X			007
8	IA-C20_20170215				1025		1635	-29	-9	2146	1014							X			008
9	IA-E16_20170215				1013		1709	-30	-10	2346	0360							X			009
10	IA-D7_20170215				1016		1606	-27	-9	2328	1032							X			010
11	IA-D13_20170215				1029		1706	-30	-9	1201	0213							X			011
12	IA-G18_20170215				0906		1530	-29	-10	0940	0324							X			012

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	2/16/17	1155		2/16/17	1155
	2/16/17	1500	Pace	2-17-17	9:45

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
ANP	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jon Byk, Andrew Kelly, Danielle Kearsley

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 02/15/17

ORIGINAL

Amp 2/17
~~10379458~~ 10379458

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical® www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

26554

Page: 1 of 2

Section A Required Client Information:

Company: TETRA TECH
Address: 295 RT 22E, SUITE 104E
WHITEHOUSE STATION, NJ 08889
Email To: DALLAS.MELLOTT@TETRATECH.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: DALLAS MELLOTT
Copy To:
Purchase Order No.:
Project Name: LMK GREAT NECK
Project Number: 117-05076A1

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NY

Reporting Units: ug/m³ ☒ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START / END/GRAB DATE	COLLECTED COMPOSITE START / END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	1A-12_20170215	6LC		2/15/17	1004	2/15/17	1621	-30	-10	1086	0060							X			013
2	SS-C1_20170215DUP	↓		↓	0957	↓	1603	-27	-9	0842	0370							X			014
3	1A-C20_20170215DUP				1027		1638	-27	-9	2365	0067							X			015
4	AA_20170215	↓		↓	0847	↓	1549	-26	-6	2156	1073							X			016
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2/16/17	1155	[signature]	2/16/17	1155
[signature]	2/16/17	1500	[signature] / Pace	2-17-17	9:45

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JON RYK, DANIELLE KEARSLEY, ANDREW KELLY

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 02/15/17

ORIGINAL

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 21, 2017

General Information:
16 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 462594

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- AA_20170215 (Lab ID: 10379458016)
  - Chloropentafluoroethane
- DUP (Lab ID: 2530069)
  - Chloropentafluoroethane
- IA-12_20170215 (Lab ID: 10379458013)
  - Chloropentafluoroethane
- IA-C20_20170215DUP (Lab ID: 10379458014)
  - Chloropentafluoroethane
- IA-D7_20170215 (Lab ID: 10379458010)
  - Chloropentafluoroethane
- IA-G18_20170215 (Lab ID: 10379458012)
  - Chloropentafluoroethane
- LCS (Lab ID: 2529704)
  - Chloropentafluoroethane
- SS-C1_20170215DUP (Lab ID: 10379458015)
  - Chloropentafluoroethane
- SS-D13_20170215 (Lab ID: 10379458011)
  - Chloropentafluoroethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Method: **TO-15**
Description: TO15 MSV AIR
Client: Tetra Tech GeoTrans
Date: March 21, 2017

Additional Comments:

Analyte Comments:

QC Batch: 462564

1M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure

- LCS (Lab ID: 2529400)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

QC Batch: 462594

2M: This compound was run under calibration with the requirements outlined in the EPA Compendium Method TO-15. Analysis does not meet the requirements for second source verification outlined in the Pace Analytical Standard Operating Procedure.

- LCS (Lab ID: 2529704)
  - 1,2-Dibromo-3-chloropropane
  - Chloropentafluoroethane
  - Freon 123
  - Methyl acetate

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Date: March 21, 2017

SS-C1_20170215 (Lab ID: 10379458001)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-C20_20170215 (Lab ID: 10379458002)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-E16_20170215 (Lab ID: 10379458003)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-D7_20170215 (Lab ID: 10379458004)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-D13_20170215 (Lab ID: 10379458005)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-G18_20170215 (Lab ID: 10379458006)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-C1_20170215 (Lab ID: 10379458007)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-C20_20170215 (Lab ID: 10379458008)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-E16_20170215 (Lab ID: 10379458009)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-D7_20170215 (Lab ID: 10379458010)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-D13_20170215 (Lab ID: 10379458011)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-G18_20170215 (Lab ID: 10379458012)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-12_20170215 (Lab ID: 10379458013)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

IA-C20_20170215DUP (Lab ID: 10379458014)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

SS-C1_20170215DUP (Lab ID: 10379458015)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

AA_20170215 (Lab ID: 10379458016)

- 1,2 Difluoroethane (CAS #624-72-6) was not detected in this mass spectral analysis.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10379458001	**SS-C1_20170215**	Air	02/15/17 16:03	02/17/17 09:45
10379458002	**SS-C20_20170215**	Air	02/15/17 16:38	02/17/17 09:45
10379458003	**SS-E16_20170215**	Air	02/15/17 15:58	02/17/17 09:45
10379458004	**SS-D7_20170215**	Air	02/15/17 16:18	02/17/17 09:45
10379458005	**IA-D13_20170215**	Air	02/15/17 15:37	02/17/17 09:45
10379458006	**SS-G18_20170215**	Air	02/15/17 15:31	02/17/17 09:45
10379458007	**IA-C1_20170215**	Air	02/15/17 16:17	02/17/17 09:45
10379458008	**IA-C20_20170215**	Air	02/15/17 16:35	02/17/17 09:45
10379458009	**IA-E16_20170215**	Air	02/15/17 17:09	02/17/17 09:45
10379458010	**IA-D7_20170215**	Air	02/15/17 16:06	02/17/17 09:45
10379458011	**SS-D13_20170215**	Air	02/15/17 17:06	02/17/17 09:45
10379458012	**IA-G18_20170215**	Air	02/15/17 15:30	02/17/17 09:45
10379458013	**IA-12_20170215**	Air	02/15/17 16:21	02/17/17 09:45
10379458014	**IA-C20_20170215DUP**	Air	02/15/17 16:03	02/17/17 09:45
10379458015	**SS-C1_20170215DUP**	Air	02/15/17 16:38	02/17/17 09:45
10379458016	**AA_20170215**	Air	02/15/17 15:49	02/17/17 09:45
10379458017	**Unused#2093**	Air		02/21/17 11:13
10379458018	**Unused#2020**	Air		02/21/17 11:13
10379458019	**Unused#1051**	Air		02/21/17 11:13

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample not included within SDG.

SAMPLE DUPLICATE: 2529705

Parameter	Units	10379929012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.55	<0.55		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.51	<0.51		25	
1,1-Dichloroethane	ug/m3	<0.26	<0.26		25	
1,1-Dichloroethene	ug/m3	<0.40	<0.40		25	
1,2,4-Trichlorobenzene	ug/m3	<1.5	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	<0.21	<0.21		25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.2	<8.2		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.3	<1.3		25	
1,2-Dichlorobenzene	ug/m3	<0.86	<0.86		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.45	<0.45		25	
1,3,5-Trimethylbenzene	ug/m3	<0.31	<0.31		25	
1,3-Butadiene	ug/m3	<0.30	<0.30		25	
1,3-Dichlorobenzene	ug/m3	<0.89	<0.89		25	
1,4-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.59	<0.59		25	
2-Butanone (MEK)	ug/m3	2.0J	2.1J		25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	1.1J	1.2J		25	
4-Ethyltoluene	ug/m3	<0.32	<0.32		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	9.2	9.6	4	25	
Allyl chloride	ug/m3	<0.38	<0.38		25	
Benzene	ug/m3	<0.20	<0.20		25	
Bromodichloromethane	ug/m3	<0.33	<0.33		25	
Bromoform	ug/m3	<1.5	<1.5		25	
Bromomethane	ug/m3	<0.52	<0.52		25	
Carbon disulfide	ug/m3	<0.17	<0.17		25	
Carbon tetrachloride	ug/m3	<0.32	<0.32		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.46	<0.46		25	
Chloroethane	ug/m3	<0.33	<0.33		25	
Chloroform	ug/m3	<0.32	<0.32		25	
Chloromethane	ug/m3	0.44J	0.54J		25	
Chloropentafluoroethane	ug/m3	<5.4	<5.4		25	
cis-1,2-Dichloroethene	ug/m3	<0.41	<0.41		25	
cis-1,3-Dichloropropene	ug/m3	<0.62	<0.62		25	
Cyclohexane	ug/m3	<0.53	<0.53		25	
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	2.1	2.3	8	25	
Dichlorotetrafluoroethane	ug/m3	<0.52	<0.52		25	
Ethylbenzene	ug/m3	<0.71	<0.71		25	
Freon 123	ug/m3	<5.3	<5.3		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.23	<0.23		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

SAMPLE DUPLICATE: 2529705

Parameter	Units	10379929012 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	<1.3	<1.3		25	
Methyl acetate	ug/m3	<2.6	<2.6		25	
Methyl-tert-butyl ether	ug/m3	<0.51	<0.51		25	
Methylcyclohexane	ug/m3	<0.41	<0.41		25	
Methylene Chloride	ug/m3	5.4J	5.6J		25	
n-Hexane	ug/m3	<0.60	<0.60		25	
o-Xylene	ug/m3	<0.59	<0.59		25	
Styrene	ug/m3	<0.32	<0.32		25	
Tetrachloroethene	ug/m3	<0.47	<0.47		25	
Toluene	ug/m3	<0.26	<0.26		25	
trans-1,2-Dichloroethene	ug/m3	<0.65	<0.65		25	
trans-1,3-Dichloropropene	ug/m3	<0.44	<0.44		25	
Trichloroethene	ug/m3	0.76J	0.74J		25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J		25	
Vinyl chloride	ug/m3	<0.33	<0.33		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

Sample not included within SDG.

SAMPLE DUPLICATE: 2530069

Parameter	Units	10380193001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.58	<0.58		25	
1,1,2-Trichloroethane	ug/m3	<0.43	<0.43		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.53	<0.53		25	
1,1-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<1.6	<1.6		25	
1,2,4-Trimethylbenzene	ug/m3	2.1	2.2	4	25	
1,2-Dibromo-3-chloropropane	ug/m3	<8.6	<8.6		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.4	<1.4		25	
1,2-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,2-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,2-Dichloropropane	ug/m3	<0.47	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	<0.32	<0.32		25	
1,3-Butadiene	ug/m3	<0.31	<0.31		25	
1,3-Dichlorobenzene	ug/m3	<0.93	<0.93		25	
1,4-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.62	<0.62		25	
2-Butanone (MEK)	ug/m3	14.0	14.5	3	25	
2-Hexanone	ug/m3	<0.72	<0.72		25	
2-Propanol	ug/m3	13.0	13.1	0	25	
4-Ethyltoluene	ug/m3	1.4J	1.3J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.38	<0.38		25	
Acetone	ug/m3	74.0	73.3	1	25	
Allyl chloride	ug/m3	<0.40	<0.40		25	
Benzene	ug/m3	1.5	1.5	1	25	
Bromodichloromethane	ug/m3	<0.34	<0.34		25	
Bromoform	ug/m3	<1.6	<1.6		25	
Bromomethane	ug/m3	<0.54	<0.54		25	
Carbon disulfide	ug/m3	<0.18	<0.18		25	
Carbon tetrachloride	ug/m3	<0.34	<0.34		25	
Chlorobenzene	ug/m3	<0.23	<0.23		25	
Chlorodifluoromethane	ug/m3	<0.48	<0.48		25	
Chloroethane	ug/m3	<0.34	<0.34		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	1.1	1.0	4	25	
Chloropentafluoroethane	ug/m3	<5.6	<5.6		25	CL
cis-1,2-Dichloroethene	ug/m3	<0.43	<0.43		25	
cis-1,3-Dichloropropene	ug/m3	<0.65	<0.65		25	
Cyclohexane	ug/m3	13.6	14.0	3	25	
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	2.1	2.1	0	25	
Dichlorotetrafluoroethane	ug/m3	<0.54	<0.54		25	
Ethylbenzene	ug/m3	32.4	32.8	1	25	
Freon 123	ug/m3	<5.6	<5.6		25	
Hexachloro-1,3-butadiene	ug/m3	<1.1	<1.1		25	
Isopropylbenzene (Cumene)	ug/m3	<0.24	<0.24		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

SAMPLE DUPLICATE: 2530069

Parameter	Units	10380193001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/m3	118	121	3	25	
Methyl acetate	ug/m3	<2.7	<2.7		25	
Methyl-tert-butyl ether	ug/m3	<0.53	<0.53		25	
Methylcyclohexane	ug/m3	8.4	8.4	1	25	
Methylene Chloride	ug/m3	6.1J	6.0J		25	
n-Hexane	ug/m3	2.4	2.6	6	25	
o-Xylene	ug/m3	29.1	30.0	3	25	
Styrene	ug/m3	1.8	1.9	3	25	
Tetrachloroethene	ug/m3	4.7	5.0	5	25	
Toluene	ug/m3	69.3	69.9	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.67	<0.67		25	
trans-1,3-Dichloropropene	ug/m3	<0.46	<0.46		25	
Trichloroethene	ug/m3	1.2	1.2	1	25	
Trichlorofluoromethane	ug/m3	1.2J	1.2J		25	
Vinyl chloride	ug/m3	<0.34	<0.34		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462564 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06312_27836.D Lab Sample ID: 2529399
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 12:20
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS for HBN 462564 [AIR/27836]	2529400	06302_27836.D	06:56
02	BLANK for HBN 462564 [AIR/2783	2529399	06312_27836.D	12:20
03	SS-C1_20170215	10379458001	06327.D	20:12
04	SS-C20_20170215	10379458002	06328.D	20:43
05	SS-E16_20170215	10379458003	06329.D	21:16
06	SS-D7_20170215	10379458004	06331.D	22:16
07	SS-D13_20170215	10379458005	06332.D	22:47
08	SS-G18_20170215	10379458006	06333.D	23:20
09	IA-C1_20170215	10379458007	06334.D	23:52
10	IA-C20_20170215	10379458008	06335.D	00:23
11	IA-E16_20170215	10379458009	06336.D	00:56

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

QC Batch: 462564 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10379458001, 10379458002, 10379458003, 10379458004, 10379458005, 10379458006, 10379458007, 10379458008, 10379458009

METHOD BLANK: 2529399 Matrix: Air
Associated Lab Samples: 10379458001, 10379458002, 10379458003, 10379458004, 10379458005, 10379458006, 10379458007, 10379458008, 10379458009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/04/17 12:20	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/04/17 12:20	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/04/17 12:20	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/04/17 12:20	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/04/17 12:20	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/04/17 12:20	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/04/17 12:20	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/04/17 12:20	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/04/17 12:20	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/04/17 12:20	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/04/17 12:20	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/04/17 12:20	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/04/17 12:20	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/04/17 12:20	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/04/17 12:20	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/04/17 12:20	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/04/17 12:20	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/04/17 12:20	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/04/17 12:20	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/04/17 12:20	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/04/17 12:20	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/04/17 12:20	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/04/17 12:20	
Acetone	ug/m3	<0.83	2.4	0.83	03/04/17 12:20	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/04/17 12:20	
Benzene	ug/m3	<0.12	0.32	0.12	03/04/17 12:20	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/04/17 12:20	
Bromoform	ug/m3	<0.90	2.1	0.90	03/04/17 12:20	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/04/17 12:20	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/04/17 12:20	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/04/17 12:20	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/04/17 12:20	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/04/17 12:20	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/04/17 12:20	
Chloroform	ug/m3	<0.19	0.50	0.19	03/04/17 12:20	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/04/17 12:20	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/04/17 12:20	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/04/17 12:20	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/04/17 12:20	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/04/17 12:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

METHOD BLANK: 2529399 Matrix: Air

Associated Lab Samples: 10379458001, 10379458002, 10379458003, 10379458004, 10379458005, 10379458006, 10379458007, 10379458008, 10379458009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/04/17 12:20	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/04/17 12:20	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/04/17 12:20	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/04/17 12:20	
Freon 123	ug/m3	<3.2	3.2	3.2	03/04/17 12:20	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/04/17 12:20	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/04/17 12:20	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/04/17 12:20	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/04/17 12:20	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/04/17 12:20	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/04/17 12:20	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/04/17 12:20	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/04/17 12:20	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/04/17 12:20	
Styrene	ug/m3	<0.19	0.87	0.19	03/04/17 12:20	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/04/17 12:20	
Toluene	ug/m3	<0.15	0.77	0.15	03/04/17 12:20	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/04/17 12:20	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/04/17 12:20	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/04/17 12:20	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/04/17 12:20	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/04/17 12:20	

LABORATORY CONTROL SAMPLE: 2529400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.0	99	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.2	109	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	51.6	93	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	70.6	91	66-131	
1,1-Dichloroethane	ug/m3	41.1	39.7	97	62-139	
1,1-Dichloroethene	ug/m3	40.3	38.0	94	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	72.1	96	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	56.6	113	57-143	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	101	103	50-150	1M
1,2-Dibromoethane (EDB)	ug/m3	78.1	77.4	99	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	59.7	98	57-141	
1,2-Dichloroethane	ug/m3	41.1	39.4	96	61-144	
1,2-Dichloropropane	ug/m3	47	44.9	96	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	50.7	102	54-147	
1,3-Butadiene	ug/m3	22.5	22.4	99	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	62.7	103	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	67.7	111	57-143	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

LABORATORY CONTROL SAMPLE: 2529400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	35.0	96	58-144	
2-Butanone (MEK)	ug/m3	30	27.2	91	66-144	
2-Hexanone	ug/m3	104	112	107	63-147	
2-Propanol	ug/m3	125	113	91	54-146	
4-Ethyltoluene	ug/m3	50	49.3	99	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	99.1	95	58-150	
Acetone	ug/m3	121	105	87	46-140	
Allyl chloride	ug/m3	79.5	76.1	96	65-142	
Benzene	ug/m3	32.5	31.5	97	62-141	
Bromodichloromethane	ug/m3	68.1	68.3	100	58-149	
Bromoform	ug/m3	105	99.6	95	61-150	
Bromomethane	ug/m3	39.5	37.3	95	58-136	
Carbon disulfide	ug/m3	31.6	32.9	104	59-135	
Carbon tetrachloride	ug/m3	64	67.3	105	60-149	
Chlorobenzene	ug/m3	46.8	43.8	94	60-150	
Chlorodifluoromethane	ug/m3	36	35.1	98	70-130	
Chloroethane	ug/m3	26.8	25.3	94	61-136	
Chloroform	ug/m3	49.6	51.0	103	65-138	
Chloromethane	ug/m3	21	19.7	94	62-133	
Chloropentafluoroethane	ug/m3	64.2	45.3	71	50-150	1M
cis-1,2-Dichloroethene	ug/m3	40.3	40.3	100	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	42.9	93	61-149	
Cyclohexane	ug/m3	35	33.5	96	64-134	
Dibromochloromethane	ug/m3	86.6	81.7	94	59-150	
Dichlorodifluoromethane	ug/m3	50.3	48.4	96	63-134	
Dichlorotetrafluoroethane	ug/m3	71	64.1	90	62-134	
Ethylbenzene	ug/m3	44.1	43.3	98	59-149	
Freon 123	ug/m3	63.6	55.0	86	50-150	1M
Hexachloro-1,3-butadiene	ug/m3	108	105	97	42-150	
Isopropylbenzene (Cumene)	ug/m3	50	49.2	98	65-150	
m&p-Xylene	ug/m3	88.3	86.8	98	59-146	
Methyl acetate	ug/m3	30.8	28.8	94	50-150	1M
Methyl-tert-butyl ether	ug/m3	91.6	85.3	93	64-135	
Methylcyclohexane	ug/m3	40.8	38.8	95	70-130	
Methylene Chloride	ug/m3	177	161	91	64-128	
n-Hexane	ug/m3	35.8	32.7	91	50-138	
o-Xylene	ug/m3	44.1	43.3	98	54-149	
Styrene	ug/m3	43.3	40.5	94	54-150	
Tetrachloroethene	ug/m3	68.9	64.0	93	60-142	
Toluene	ug/m3	38.3	36.2	94	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	40.8	101	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	44.0	95	59-145	
Trichloroethene	ug/m3	54.6	51.7	95	60-144	
Trichlorofluoromethane	ug/m3	57.1	51.4	90	59-134	
Vinyl chloride	ug/m3	26	25.1	97	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

FORM 4
METHOD BLANK SUMMARY

EPA SAMPLE NO.

BLANK FOR HBN 462594 [

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06409_27839.D Lab Sample ID: 2529703
GC Column: J&W DB-5 ID: 0.32 (mm) Time Analyzed: 13:11
Instrument ID: 10AIRB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	IA-D7_20170215	10379458010	06410.D	13:42
02	IA-D13_20170215	10379458011	06411.D	14:14
03	IA-G18_20170215	10379458012	06412.D	14:45
04	IA-12_20170215	10379458013	06413.D	15:16
05	SS-C1_20170215DUP	10379458014	06414.D	15:48
06	IA-C20_20170215DUP	10379458015	06415.D	16:19
07	AA_20170215	10379458016	06417.D	17:17

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

QC Batch: 462594 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10379458010, 10379458011, 10379458012, 10379458013, 10379458014, 10379458015, 10379458016

METHOD BLANK: 2529703 Matrix: Air
Associated Lab Samples: 10379458010, 10379458011, 10379458012, 10379458013, 10379458014, 10379458015, 10379458016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	0.25	03/05/17 13:11	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	0.33	03/05/17 13:11	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	0.25	03/05/17 13:11	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	0.30	03/05/17 13:11	
1,1-Dichloroethane	ug/m3	<0.16	0.82	0.16	03/05/17 13:11	
1,1-Dichloroethene	ug/m3	<0.24	0.81	0.24	03/05/17 13:11	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	0.91	03/05/17 13:11	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	0.12	03/05/17 13:11	
1,2-Dibromo-3-chloropropane	ug/m3	<4.9	4.9	4.9	03/05/17 13:11	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	0.77	03/05/17 13:11	
1,2-Dichlorobenzene	ug/m3	<0.51	1.2	0.51	03/05/17 13:11	
1,2-Dichloroethane	ug/m3	<0.20	0.41	0.20	03/05/17 13:11	
1,2-Dichloropropane	ug/m3	<0.27	0.94	0.27	03/05/17 13:11	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	0.18	03/05/17 13:11	
1,3-Butadiene	ug/m3	<0.18	0.45	0.18	03/05/17 13:11	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	0.53	03/05/17 13:11	
1,4-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	03/05/17 13:11	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.35	3.7	0.35	03/05/17 13:11	
2-Butanone (MEK)	ug/m3	<0.23	3.0	0.23	03/05/17 13:11	
2-Hexanone	ug/m3	<0.41	4.2	0.41	03/05/17 13:11	
2-Propanol	ug/m3	<0.24	2.5	0.24	03/05/17 13:11	
4-Ethyltoluene	ug/m3	<0.19	1.0	0.19	03/05/17 13:11	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	4.2	0.22	03/05/17 13:11	
Acetone	ug/m3	<0.83	2.4	0.83	03/05/17 13:11	
Allyl chloride	ug/m3	<0.23	1.6	0.23	03/05/17 13:11	
Benzene	ug/m3	<0.12	0.32	0.12	03/05/17 13:11	
Bromodichloromethane	ug/m3	<0.19	1.4	0.19	03/05/17 13:11	
Bromoform	ug/m3	<0.90	2.1	0.90	03/05/17 13:11	
Bromomethane	ug/m3	<0.31	0.79	0.31	03/05/17 13:11	
Carbon disulfide	ug/m3	<0.10	0.63	0.10	03/05/17 13:11	
Carbon tetrachloride	ug/m3	<0.19	0.64	0.19	03/05/17 13:11	
Chlorobenzene	ug/m3	<0.13	0.94	0.13	03/05/17 13:11	
Chlorodifluoromethane	ug/m3	<0.28	0.72	0.28	03/05/17 13:11	
Chloroethane	ug/m3	<0.19	0.54	0.19	03/05/17 13:11	
Chloroform	ug/m3	<0.19	0.50	0.19	03/05/17 13:11	
Chloromethane	ug/m3	<0.11	0.42	0.11	03/05/17 13:11	
Chloropentafluoroethane	ug/m3	<3.2	3.2	3.2	03/05/17 13:11	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	0.25	03/05/17 13:11	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	0.37	03/05/17 13:11	
Cyclohexane	ug/m3	<0.32	0.70	0.32	03/05/17 13:11	
Dibromochloromethane	ug/m3	<0.86	1.7	0.86	03/05/17 13:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

METHOD BLANK: 2529703 Matrix: Air
Associated Lab Samples: 10379458010, 10379458011, 10379458012, 10379458013, 10379458014, 10379458015, 10379458016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/m3	<0.48	1.0	0.48	03/05/17 13:11	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	0.31	03/05/17 13:11	
Ethylbenzene	ug/m3	<0.42	0.88	0.42	03/05/17 13:11	
Freon 123	ug/m3	<3.2	3.2	3.2	03/05/17 13:11	
Hexachloro-1,3-butadiene	ug/m3	<0.65	2.2	0.65	03/05/17 13:11	
Isopropylbenzene (Cumene)	ug/m3	<0.14	2.5	0.14	03/05/17 13:11	
m&p-Xylene	ug/m3	<0.79	1.8	0.79	03/05/17 13:11	
Methyl acetate	ug/m3	<1.5	1.5	1.5	03/05/17 13:11	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	0.30	03/05/17 13:11	
Methylcyclohexane	ug/m3	<0.24	0.82	0.24	03/05/17 13:11	
Methylene Chloride	ug/m3	<0.54	3.5	0.54	03/05/17 13:11	
n-Hexane	ug/m3	<0.36	0.72	0.36	03/05/17 13:11	
o-Xylene	ug/m3	<0.35	0.88	0.35	03/05/17 13:11	
Styrene	ug/m3	<0.19	0.87	0.19	03/05/17 13:11	
Tetrachloroethene	ug/m3	<0.28	0.69	0.28	03/05/17 13:11	
Toluene	ug/m3	<0.15	0.77	0.15	03/05/17 13:11	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	0.38	03/05/17 13:11	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	0.26	03/05/17 13:11	
Trichloroethene	ug/m3	<0.28	0.55	0.28	03/05/17 13:11	
Trichlorofluoromethane	ug/m3	<0.13	1.1	0.13	03/05/17 13:11	
Vinyl chloride	ug/m3	<0.20	0.26	0.20	03/05/17 13:11	

LABORATORY CONTROL SAMPLE: 2529704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.9	101	60-143	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.5	110	49-150	
1,1,2-Trichloroethane	ug/m3	55.5	52.1	94	57-149	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	73.5	94	66-131	
1,1-Dichloroethane	ug/m3	41.1	40.2	98	62-139	
1,1-Dichloroethene	ug/m3	40.3	38.3	95	62-135	
1,2,4-Trichlorobenzene	ug/m3	75.4	75.4	100	55-146	
1,2,4-Trimethylbenzene	ug/m3	50	57.5	115	57-143	
1,2-Dibromo-3-chloropropane	ug/m3	98.2	101	103	50-150	2M
1,2-Dibromoethane (EDB)	ug/m3	78.1	80.7	103	63-150	
1,2-Dichlorobenzene	ug/m3	61.1	61.2	100	57-141	
1,2-Dichloroethane	ug/m3	41.1	39.9	97	61-144	
1,2-Dichloropropane	ug/m3	47	45.2	96	63-144	
1,3,5-Trimethylbenzene	ug/m3	50	51.5	103	54-147	
1,3-Butadiene	ug/m3	22.5	21.9	97	61-140	
1,3-Dichlorobenzene	ug/m3	61.1	64.0	105	51-150	
1,4-Dichlorobenzene	ug/m3	61.1	68.8	113	57-143	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	35.5	97	58-144	
2-Butanone (MEK)	ug/m3	30	28.0	93	66-144	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 117-0507641 LMC Great Neck-REV
Pace Project No.: 10379458

LABORATORY CONTROL SAMPLE: 2529704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/m3	104	109	105	63-147	
2-Propanol	ug/m3	125	114	91	54-146	
4-Ethyltoluene	ug/m3	50	49.5	99	56-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	98.2	94	58-150	
Acetone	ug/m3	121	103	86	46-140	
Allyl chloride	ug/m3	79.5	76.9	97	65-142	
Benzene	ug/m3	32.5	32.3	100	62-141	
Bromodichloromethane	ug/m3	68.1	67.7	99	58-149	
Bromoform	ug/m3	105	104	99	61-150	
Bromomethane	ug/m3	39.5	37.1	94	58-136	
Carbon disulfide	ug/m3	31.6	33.6	106	59-135	
Carbon tetrachloride	ug/m3	64	68.7	107	60-149	
Chlorobenzene	ug/m3	46.8	46.7	100	60-150	
Chlorodifluoromethane	ug/m3	36	35.6	99	70-130	
Chloroethane	ug/m3	26.8	24.2	90	61-136	
Chloroform	ug/m3	49.6	47.5	96	65-138	
Chloromethane	ug/m3	21	19.6	93	62-133	
Chloropentafluoroethane	ug/m3	64.2	38.2	60	50-150	2M,CL
cis-1,2-Dichloroethene	ug/m3	40.3	41.0	102	65-139	
cis-1,3-Dichloropropene	ug/m3	46.1	43.1	94	61-149	
Cyclohexane	ug/m3	35	33.7	96	64-134	
Dibromochloromethane	ug/m3	86.6	84.9	98	59-150	
Dichlorodifluoromethane	ug/m3	50.3	49.3	98	63-134	
Dichlorotetrafluoroethane	ug/m3	71	65.5	92	62-134	
Ethylbenzene	ug/m3	44.1	45.7	104	59-149	
Freon 123	ug/m3	63.6	49.0	77	50-150	2M
Hexachloro-1,3-butadiene	ug/m3	108	114	106	42-150	
Isopropylbenzene (Cumene)	ug/m3	50	50.6	101	65-150	
m&p-Xylene	ug/m3	88.3	90.7	103	59-146	
Methyl acetate	ug/m3	30.8	29.5	96	50-150	2M
Methyl-tert-butyl ether	ug/m3	91.6	87.7	96	64-135	
Methylcyclohexane	ug/m3	40.8	38.6	94	70-130	
Methylene Chloride	ug/m3	177	164	93	64-128	
n-Hexane	ug/m3	35.8	34.7	97	50-138	
o-Xylene	ug/m3	44.1	45.0	102	54-149	
Styrene	ug/m3	43.3	42.1	97	54-150	
Tetrachloroethene	ug/m3	68.9	68.4	99	60-142	
Toluene	ug/m3	38.3	36.7	96	61-138	
trans-1,2-Dichloroethene	ug/m3	40.3	41.9	104	67-137	
trans-1,3-Dichloropropene	ug/m3	46.1	44.1	96	59-145	
Trichloroethene	ug/m3	54.6	52.9	97	60-144	
Trichlorofluoromethane	ug/m3	57.1	52.5	92	59-134	
Vinyl chloride	ug/m3	26	24.6	95	63-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/05/2017

Lab File ID (Standard): 06405.D Time Analyzed: 10:57

Instrument ID: 10AIR7 Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
02	24 HOUR STANDARD	721634	4.504	477369	7.311
02	UPPER LIMIT 1010288	~~1443268~~	5.004	668316 ~~954738~~	7.811
02	LOWER LIMIT 432980	~~360817~~	4.004	286421.4 ~~238684~~	6.811
02	EPA SAMPLE NO.				
02	SS-C20_20170215	682282	4.498	437606	7.308
02	SS-E16_20170215	650899	4.494	413202	7.305

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/04/2017

Lab File ID (Standard): 06302.D Time Analyzed: 06:56

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
12	24 HOUR STANDARD	1504620	5.613	1015806	8.645
12	UPPER LIMIT 2106468	~~3009240~~	6.113	1422128 ~~2031612~~	9.145
12	LOWER LIMIT 902772	~~752310~~	5.113	609484 ~~507903~~	8.145
12	EPA SAMPLE NO.				
12	LCS for HBN 462564 [AIR/27836]	1504620	5.613	1015806	8.645
12	BLANK for HBN 462564 [AIR/2783	1372533	5.600	883257	8.639
12	VP-8_10_20170221(2522486DUP)	1250767	5.594	817123	8.639
12	SS-C1_20170215	1214830	5.601	825355	8.642
12	SS-C20_20170215	1266794	5.600	855249	8.642
12	SS-E16_20170215	1204479	5.594	826263	8.642
12	SS-D7_20170215	1196437	5.601	808099	8.639
12	SS-D13_20170215	1307811	5.597	842698	8.639
12	SS-G18_20170215	1144882	5.597	769332	8.639
12	IA-C1_20170215	1328713	5.601	830201	8.639
12	IA-C20_20170215	1330203	5.600	859087	8.642
12	IA-E16_20170215	1273487	5.600	833877	8.639

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

8 FORM VIII VOA-I

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Pace Analytical Contract:

Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458

EPA Sample No. (VSTD050##): CCV Date Analyzed: 03/05/2017

Lab File ID (Standard): 06402.D Time Analyzed: 09:36

Instrument ID: 10AIRB Heated Purge (Y/N): N

GC Column: J&W DB-5 ID: 0.32 (mm)

	EPA SAMPLE NO.	IS1 AREA #	RT #	IS2 AREA #	RT #
10	24 HOUR STANDARD	1422092	5.610	975415	8.645
10	UPPER LIMIT 1990929	~~2844184~~	6.110	1365581 ~~1950830~~	9.145
10	LOWER LIMIT 853255	~~711046~~	5.110	585249 ~~487708~~	8.145
10	EPA SAMPLE NO.				
10	LCS for HBN 462594 [AIR/27839]	1422092	5.610	975415	8.645
10	BLANK for HBN 462594 [AIR/2783	1368126	5.597	883486	8.639
10	IA-D7 20170215	1357536	5.600	873017	8.639
10	IA-D13 20170215	1377530	5.601	891348	8.642
10	IA-G18 20170215	1381295	5.597	895683	8.639
10	IA-12 20170215	1389391	5.601	906502	8.642
10	SS-C1 20170215DUP	1254535	5.601	816257	8.639
10	IA-C20 20170215DUP	1246320	5.601	812580	8.639
10	AA 20170215	1243220	5.600	807453	8.639
10	VP-NYSDEC-5_5_2...(2524233DUP)	1253537	5.600	819331	8.642

Region 2 Area internal standard recovery 60-140%. Upper and lower limits recalulated.

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene - d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06301BFB.D BFB Injection Date: 03/04/2017
Instrument ID: 10AIR7 BFB Injection Time: 06:29
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.12	
75	30.00 - 66.00% of mass 95	45.98	
96	5.00 - 9.00% of mass 95	6.77	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	112.98	
175	4.00 - 9.00% of mass 174	8.39	(7.43)
176	93.00 - 101.00% of mass 174	107.16	(94.84)
177	5.00 - 9.00% of mass 176	6.75	(6.30)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	06304.D	03/04/2017	08:10
2	CAL2	CAL2	06305.D	03/04/2017	08:33
3	CAL3	CAL3	06306.D	03/04/2017	08:57
4	CAL4	CAL4	06307.D	03/04/2017	09:22
5	CAL5	CAL5	06308.D	03/04/2017	09:46
6	CAL6	CAL6	06309.D	03/04/2017	10:10
7	CAL7	CAL7	06310.D	03/04/2017	10:36
8	ICV (LCS)	ICV	06312.D	03/04/2017	11:23

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10air7.i\030417.b\06304.D
Level 02: all \\192.168.10.12\chem\10air7.i\030417.b\06305.D
Level 03: all \\192.168.10.12\chem\10air7.i\030417.b\06306.D
Level 04: all \\192.168.10.12\chem\10air7.i\030417.b\06307.D
Level 05: all \\192.168.10.12\chem\10air7.i\030417.b\06308.D
Level 06: all \\192.168.10.12\chem\10air7.i\030417.b\06309.D
Level 07: all \\192.168.10.12\chem\10air7.i\030417.b\06310.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 1,1-Difluoroethane	0.18111	0.15204	0.14148	0.14005	0.15288	0.13387	0.12877	AVRG		0.14717		11.79166
3 Chlorodifluoromethane	0.07689	0.08615	0.07325	0.07108	0.08210	0.07172	0.07001	AVRG		0.07589		8.10553
4 Propylene	+++++	10787	24024	42059	180601	307959	423114	QUAD	0.01670	0.20865	-0.01525	0.99867

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Dichlorodifluoromethane	0.98904	0.82087	0.75138	0.72298	0.81068	0.70408						
	0.64991							AVRG		0.77842		14.17474
6 Chloromethane	0.41370	0.34820	0.32044	0.28791	0.31728	0.28423						
	0.26350							AVRG		0.31932		15.69995
7 Dichlorotetrafluoroethane	0.91098	0.76795	0.69862	0.64257	0.71382	0.64785						
	0.60975							AVRG		0.71308		14.28867
8 Vinyl chloride	0.30182	0.25207	0.22813	0.19759	0.22828	0.21849						
	0.21391							AVRG		0.23433		14.53605
9 1,3-Butadiene	0.20068	0.20476	0.17263	0.14046	0.16520	0.16259						
	0.15606							AVRG		0.17177		13.60934
10 Bromomethane	0.33915	0.27409	0.25158	0.20993	0.24812	0.22606						
	0.23537							AVRG		0.25490		16.61207
11 Chloroethane	0.11167	0.10549	0.09141	0.07844	0.08914	0.07982						
	0.08496							AVRG		0.09156		13.79934

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
12 Ethanol	+++++	0.07472	0.06247	0.05699	0.07461	0.07018					
	0.06714						AVRG		0.06769		10.35278
13 Vinyl Bromide	0.32277	0.30315	0.25019	0.22324	0.26068	0.23967					
	0.24659						AVRG		0.26375		13.62086
14 Isopentane	0.35956	0.29533	0.25267	0.21591	0.24207	0.21218					
	0.21678						AVRG		0.25636		21.09203
15 Freon 123	0.79325	0.65654	0.55136	0.48460	0.57521	0.52425					
	0.53947						AVRG		0.58924		17.72269
16 Trichlorofluoromethane	1.05912	0.84541	0.72952	0.66050	0.76025	0.68495					
	0.67444						AVRG		0.77346		18.22960
17 Acrolein	0.06364	0.05771	0.05178	0.04970	0.07636	0.07310					
	0.07384						AVRG		0.06373		17.25343
18 Acetone	0.69563	0.54453	0.45312	0.39229	0.38534	0.34935					
	0.32963						AVRG		0.44998		28.89110

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Isopropyl Alcohol	0.55320	0.39786	0.33952	0.30601	0.37839	0.33893	0.33037	AVRG		0.37776		22.02850
20 1,1-Dichloroethene	0.55854	0.48630	0.38914	0.36101	0.42424	0.38885	0.38757	AVRG		0.42795		16.41783
21 Acrylonitrile	0.24579	0.19257	0.14989	0.13556	0.17495	0.16331	0.16143	AVRG		0.17478		20.66394
22 Freon 113	0.76635	0.67012	0.53081	0.49705	0.57101	0.50912	0.50483	AVRG		0.57847		17.69795
23 Tert Butyl Alcohol (TBA)	0.68863	0.54116	0.43359	0.42010	0.53095	0.47194	0.45324	AVRG		0.50566		18.37076
24 Methyl Acetate	0.67935	0.55213	0.41351	0.37165	0.50498	0.54279	0.53015	AVRG		0.51351		19.52732
25 Methylene chloride	0.44902	0.38749	0.29362	0.26731	0.29960	0.25736	0.24523	AVRG		0.31423		24.08659

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
26 Allyl Chloride	0.09201	0.06725	0.05594	0.05370	0.08726	0.08171	0.08148	AVRG		0.07419		20.58467
27 Carbon Disulfide	0.70211	0.62527	0.47083	0.44569	0.54768	0.50996	0.49982	AVRG		0.54305		16.76667
28 trans-1,2-dichloroethene	0.31043	0.26637	0.19728	0.18347	0.23017	0.21253	0.21008	AVRG		0.23005		19.21965
29 Methyl Tert Butyl Ether	0.85058	0.70517	0.55603	0.52375	0.61838	0.55836	0.53671	AVRG		0.62128		19.10150
30 Vinyl Acetate	0.65245	0.51289	0.38381	0.36111	0.66299	0.61267	0.60278	AVRG		0.54124		23.13979
31 1,1-Dichloroethane	0.59566	0.53825	0.40477	0.37151	0.43540	0.40825	0.40279	AVRG		0.45095		18.41783
33 Methyl Ethyl Ketone	0.10975	0.09063	0.07747	0.06918	0.08306	0.08021	0.08444	AVRG		0.08496		15.02794

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
34 n-Hexane	0.49505	0.38194	0.29012	0.26654	0.32223	0.30199	0.29344	AVRG		0.33590		23.53414
35 Di-isopropyl Ether	1.15856	1.01441	0.72832	0.69377	0.80420	0.74512	0.72383	AVRG		0.83832		21.20027
36 cis-1,2-Dichloroethene	0.34478	0.26113	0.20753	0.20237	0.25027	0.23811	0.23353	AVRG		0.24825		19.15751
37 Ethyl Acetate	0.74550	0.62080	0.45744	0.41137	0.52187	0.49129	0.48013	AVRG		0.53263		21.41013
38 Ethyl Tert-Butyl Ether	1.08365	0.88290	0.69310	0.66990	0.78813	0.69823	0.65359	AVRG		0.78136		19.90827
39 Chloroform	0.76379	0.60028	0.48325	0.47456	0.56736	0.50859	0.48321	AVRG		0.55443		18.73259
40 Tetrahydrofuran	0.39158	0.27969	0.22490	0.19971	0.25162	0.23667	0.23472	AVRG		0.25984		24.24849

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
41 1,1,1-Trichloroethane	0.81835	0.75072	0.62710	0.63490	0.70185	0.64800						
	0.56467							AVRG		0.67794		12.59517
42 1,2-Dichloroethane	0.56439	0.51531	0.42044	0.40976	0.47359	0.43113						
	0.37801							AVRG		0.45609		14.34329
43 Benzene	1.07284	0.88959	0.72018	0.66791	0.75966	0.67624						
	0.63857							AVRG		0.77500		20.05310
44 Carbon tetrachloride	0.85664	0.75370	0.67344	0.64165	0.84291	0.74234						
	0.69191							AVRG		0.74323		11.08564
45 Cyclohexane	0.53866	0.45518	0.36798	0.33439	0.37785	0.33080						
	0.31363							AVRG		0.38836		20.86348
46 Tert Amyl Methyl Ether	18647	25344	41376	67237	631504	1150933						
	1645384							LINR	0.02495	0.66171		0.99812
48 2,2,4-Trimethylpentane	1.75547	1.48033	1.23246	1.12863	1.16476	1.00746						
	0.93349							AVRG		1.24323		22.97567

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
49 Heptane	0.69456	0.60115	0.49179	0.44936	0.47986	0.42683						
	0.41096							AVRG		0.50779		20.33583
50 1,2-Dichloropropane	0.38498	0.34645	0.28683	0.26292	0.28885	0.26355						
	0.25495							AVRG		0.29836		16.41511
51 Trichloroethene	0.65894	0.53485	0.44695	0.41880	0.45115	0.40205						
	0.38994							AVRG		0.47181		20.18391
52 Methyl methacrylate	0.31309	0.25264	0.20751	0.19039	0.23663	0.21150						
	0.20734							AVRG		0.23130		17.98156
53 Bromodichloromethane	0.85004	0.66061	0.57468	0.55637	0.69541	0.61495						
	0.59516							AVRG		0.64960		15.50468
54 1,4-Dioxane	0.19217	0.12514	0.12103	0.09914	0.13515	0.12174						
	0.10591							AVRG		0.12861		23.71939
55 Methylcyclohexane	0.20695	0.18819	0.16392	0.15373	0.16641	0.15001						
	0.14614							AVRG		0.16791		13.20429

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
56 Methyl Isobutyl Ketone	0.94008	0.76944	0.64591	0.60234	0.66394	0.58030	0.54302	AVRG		0.67786		20.13436
57 cis-1,3-Dichloropropene	0.53196	0.46542	0.38894	0.37703	0.45778	0.42009	0.41095	AVRG		0.43603		12.25055
58 trans-1,3-Dichloropropene	0.47623	0.38997	0.33079	0.32546	0.44100	0.40042	0.39676	AVRG		0.39438		13.78300
60 Toluene	1.30936	1.05721	0.87799	0.85230	0.91315	0.80818	0.79683	AVRG		0.94500		19.32586
61 1,1,2-Trichloroethane	0.49909	0.39686	0.32841	0.30680	0.34582	0.31044	0.30449	AVRG		0.35599		19.91599
62 Methyl Butyl Ketone	1.48158	1.07284	0.89976	0.78574	0.91998	0.80189	0.75089	AVRG		0.95895		26.55539
63 n-Octane	1.33364	1.19767	0.97579	0.87398	0.97562	0.82909	0.78979	AVRG		0.99651		20.10190

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	1.40574	1.14246	1.00544	0.96546	1.32030	1.16829						
	1.11598							AVRG		1.16053		13.63011
65 1,2-Dibromoethane	1.23923	0.95229	0.82464	0.77768	0.94672	0.83421						
	0.80034							AVRG		0.91073		17.59608
66 Tetrachloroethene	1.39715	1.13722	0.94958	0.88344	0.96482	0.82785						
	0.78043							AVRG		0.99150		21.44522
68 Chlorobenzene	1.64503	1.34896	1.11282	1.05208	1.19725	1.06178						
	1.02113							AVRG		1.20558		18.56660
69 Ethyl Benzene	2.68170	2.11748	1.74498	1.60813	1.79893	1.60158						
	1.51856							AVRG		1.86734		21.91570
70 m&p-Xylene	2.32181	1.61619	1.34007	1.22977	1.37470	1.22051						
	1.15946							AVRG		1.46607		27.69555
71 Bromoform	1.09743	0.76969	0.65395	0.66845	1.24718	1.10637						
	1.04995							AVRG		0.94186		25.40218

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
72 n-Nonane	1.10533	0.98310	0.86584	0.81573	0.93953	0.80619	0.75031	AVRG		0.89515		13.67732
73 Styrene	1.25914	1.00308	0.85628	0.82715	0.98888	0.88878	0.85780	AVRG		0.95444		15.76717
74 o-Xylene	2.22542	1.63389	1.33291	1.27308	1.39708	1.21384	1.18006	AVRG		1.46518		25.07593
75 1,1,2,2-Tetrachloroethane	1.33192	0.93705	0.81911	0.71992	0.86382	0.76867	0.75225	AVRG		0.88468		23.78430
76 Isopropylbenzene	2.80306	2.26328	1.88591	1.77323	1.96929	1.74324	1.65475	AVRG		2.01325		19.90460
77 N-Propylbenzene	2.79585	2.20558	1.90501	1.78528	2.07758	1.83389	1.77153	AVRG		2.05353		17.74282
78 4-Ethyltoluene	2.63604	1.83663	1.61450	1.50396	1.76956	1.57110	1.52700	AVRG		1.77983		22.32553

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,3,5-Trimethylbenzene	2.18800	1.57727	1.44675	1.34114	1.47810	1.32787						
	1.26707							AVRG		1.51803		20.64799
80 n-Decane	0.52717	0.43327	0.38237	0.39327	0.47503	0.44851						
	0.44758							AVRG		0.44389		11.03656
81 Tert-Butyl Benzene	2.30782	1.75245	1.55311	1.48454	1.55886	1.39407						
	1.32630							AVRG		1.62531		20.31793
82 1,2,4-Trimethylbenzene	+++++	1.49817	1.30367	1.24419	1.34482	1.23228						
	1.18003							AVRG		1.30053		8.65728
83 1,3-Dichlorobenzene	1.32523	0.86694	0.73363	0.71623	0.87748	0.83667						
	0.81193							AVRG		0.88116		23.31102
84 Sec- Butylbenzene	2.71123	2.07668	1.85960	1.77781	1.90738	1.73642						
	1.68378							AVRG		1.96470		17.99683
86 Benzyl Chloride	0.84612	0.53888	0.48876	0.43831	0.75526	0.78311						
	0.79290							AVRG		0.66334		25.34511

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
87 1,4-Dichlorobenzene	1.23013	0.78568	0.66796	0.63289	0.79554	0.78246	0.76115	AVRG		0.80797		24.33559
88 p-Isopropyltoluene	2.18749	1.61840	1.50692	1.45354	1.59075	1.47831	1.44518	AVRG		1.61151		16.29089
89 1,2,3-Trimethylbenzene	2.10577	1.37677	1.19550	1.13893	1.22812	1.14252	1.10830	AVRG		1.32799		26.68105
90 1,2-Dichlorobenzene	1.13331	0.79009	0.67616	0.64131	0.76089	0.73286	0.71025	AVRG		0.77784		21.14866
91 N-Butylbenzene	1.54341	1.02181	0.96195	0.91772	1.09128	1.02328	1.02236	AVRG		1.08312		19.40332
92 1,2-Dibromo-3-Chloropropane	0.25131	0.16478	0.14018	0.12847	0.21499	0.20041	0.19818	AVRG		0.18548		23.41793
93 1,2,4-Trichlorobenzene	1286	1265	2814	4736	45723	103855	154120	LINR	-0.00059	0.09203		0.99912

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	2740	2805	6365	10481	90166	193658					
	268656						LINR	0.00402	0.16287		0.99759
95 Hexachlorobutadiene	+++++	3869	8007	17276	106467	187769					
	271135						QUAD	0.00678	0.19414	-0.01199	0.99899
$ 32 Hexane-d14(S)	0.28622	0.28708	0.25310	0.25577	0.26701	0.27695					
	0.28448						AVRG		0.27295		5.28674
$ 59 Toluene-d8 (S)	0.83074	0.84525	0.84391	0.83310	0.83807	0.83670					
	0.84836						AVRG		0.83944		0.78206
$ 85 1,4-dichlorobenzene-d4 (S)	0.35107	0.34678	0.36753	0.39357	0.43999	0.47901					
	0.48608						AVRG		0.40915		14.45556

Report Date : 04-Mar-2017 13:05

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2017 08:10
End Cal Date : 04-MAR-2017 10:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10air7.i\030417.b\TO15_063-17.m
Last Edit : 04-Mar-2017 12:59 10air7.i

Average %RSD Results.
Calculated Average %RSD = 18.37878
Maximun Average %RSD = 0.000e+000
* Failed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06401BFB.D BFB Injection Date: 03/05/2017
Instrument ID: 10AIR7 BFB Injection Time: 09:07
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	22.04	
75	30.00 - 66.00% of mass 95	47.99	
96	5.00 - 9.00% of mass 95	5.69	
173	Less than 2.00% of mass 174	0.00	(0.00)
174	50.00 - 120.00% of mass 95	112.34	
175	4.00 - 9.00% of mass 174	8.36	(7.45)
176	93.00 - 101.00% of mass 174	106.07	(94.42)
177	5.00 - 9.00% of mass 176	7.10	(6.69)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	06405.D	03/05/2017	10:57
2	CERT	CERT	06409.D	03/05/2017	12:57
3	SS-C20_20170215 (DL)	10379458002	06427.D	03/05/2017	20:13
4	SS-E16_20170215 (DL)	10379458003	06428.D	03/05/2017	20:36

Only affects tetrachloroethene.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
1	Chloropentafluoroethane	++++	0.02467	0.02467	0.010	++++	30.00000	Aver	(a)	<-
2	1,1-Difluoroethane	0.14717	0.16070	0.16070	0.010	9.19075	30.00000	Aver		
3	Chlorodifluoromethane	0.07589	0.09014	0.09014	0.010	18.78115	30.00000	Aver		
4	Propylene	10.00000	10.39491	0.21712	0.010	3.94912	30.00000	Quad		
5	Dichlorodifluoromethane	0.77842	0.84732	0.84732	0.010	8.85147	30.00000	Aver		
6	Chloromethane	0.31932	0.39522	0.39522	0.010	23.76896	30.00000	Aver		
7	Dichlorotetrafluoroethane	0.71308	0.87638	0.87638	0.010	22.90060	30.00000	Aver		
8	Vinyl chloride	0.23433	0.30527	0.30527	0.010	30.27523	30.00000	Aver		<-
9	1,3-Butadiene	0.17177	0.22517	0.22517	0.010	31.09076	30.00000	Aver		<-
10	Bromomethane	0.25490	0.33911	0.33911	0.010	33.03582	30.00000	Aver		<-
11	Chloroethane	0.09156	0.12601	0.12601	0.010	37.62162	30.00000	Aver		<-
12	Ethanol	0.06769	0.10146	0.10146	0.005	49.89769	30.00000	Aver		<-
13	Vinyl Bromide	0.26375	0.35444	0.35444	0.010	34.38381	30.00000	Aver		<-
14	Isopentane	0.25636	0.33677	0.33677	0.010	31.36874	30.00000	Aver		<-
15	Freon 123	0.58924	0.76433	0.76433	0.010	29.71515	30.00000	Aver		
16	Trichlorofluoromethane	0.77346	0.99712	0.99712	0.010	28.91735	30.00000	Aver		
17	Acrolein	0.06373	0.10759	0.10759	0.010	68.81721	30.00000	Aver		<-
18	Acetone	0.44998	0.52379	0.52379	0.010	16.40266	30.00000	Aver	(M)	
19	Isopropyl Alcohol	0.37776	0.50842	0.50842	0.010	34.58851	30.00000	Aver	(M)	<-
20	1,1-Dichloroethene	0.42795	0.54717	0.54717	0.010	27.85938	30.00000	Aver		
21	Acrylonitrile	0.17478	0.23246	0.23246	0.010	33.00022	30.00000	Aver		<-
22	Freon 113	0.57847	0.74424	0.74424	0.010	28.65705	30.00000	Aver		
23	Tert Butyl Alcohol (TBA)	0.50566	0.67066	0.67066	0.010	32.63123	30.00000	Aver		<-
24	Methyl Acetate	0.51351	0.82768	0.82768	0.010	61.18090	30.00000	Aver		<-
25	Methylene chloride	0.31423	0.40695	0.40695	0.010	29.50656	30.00000	Aver		
26	Allyl Chloride	0.07419	0.11631	0.11631	0.010	56.75995	30.00000	Aver		<-
27	Carbon Disulfide	0.54305	0.75195	0.75195	0.010	38.46694	30.00000	Aver		<-
28	trans-1,2-dichloroethene	0.23005	0.31011	0.31011	0.010	34.80034	30.00000	Aver		<-
29	Methyl Tert Butyl Ether	0.62128	0.80114	0.80114	0.010	28.94925	30.00000	Aver		
30	Vinyl Acetate	0.54124	0.92853	0.92853	0.010	71.55574	30.00000	Aver		<-
31	1,1-Dichloroethane	0.45095	0.59948	0.59948	0.010	32.93880	30.00000	Aver		<-
$ 32	Hexane-d14(S)	0.27295	0.34769	0.34769	0.010	27.38392	30.00000	Aver		
33	Methyl Ethyl Ketone	0.08496	0.11690	0.11690	0.010	37.59416	30.00000	Aver	(M)	<-
34	n-Hexane	0.33590	0.44252	0.44252	0.010	31.74093	30.00000	Aver		<-
35	Di-isopropyl Ether	0.83832	1.14773	1.14773	0.010	36.90934	30.00000	Aver		<-
36	cis-1,2-Dichloroethene	0.24825	0.34100	0.34100	0.010	37.36292	30.00000	Aver		<-
37	Ethyl Acetate	0.53263	0.74553	0.74553	0.010	39.97234	30.00000	Aver	(M)	<-
38	Ethyl Tert-Butyl Ether	0.78136	1.03281	1.03281	0.010	32.18123	30.00000	Aver		<-
39	Chloroform	0.55443	0.74294	0.74294	0.010	33.99958	30.00000	Aver		<-
40	Tetrahydrofuran	0.25984	0.35926	0.35926	0.010	38.25941	30.00000	Aver		<-
41	1,1,1-Trichloroethane	0.67794	0.81945	0.81945	0.010	20.87318	30.00000	Aver		
42	1,2-Dichloroethane	0.45609	0.53209	0.53209	0.010	16.66260	30.00000	Aver		

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	43 Benzene	0.77500	0.80498	0.80498	0.010	3.86803	30.00000	Aver		
	44 Carbon tetrachloride	0.74323	0.92152	0.92152	0.010	23.98948	30.00000	Aver		
	45 Cyclohexane	0.38836	0.39477	0.39477	0.010	1.65176	30.00000	Aver		
	46 Tert Amyl Methyl Ether	10.00000	11.69668	0.79892	0.010	16.96676	30.00000	Line		
	48 2,2,4-Trimethylpentane	1.24323	1.25183	1.25183	0.010	0.69216	30.00000	Aver		
	49 Heptane	0.50779	0.51557	0.51557	0.010	1.53270	30.00000	Aver		
	50 1,2-Dichloropropane	0.29836	0.30815	0.30815	0.010	3.27955	30.00000	Aver		
	51 Trichloroethene	0.47181	0.47752	0.47752	0.010	1.21003	30.00000	Aver		
	52 Methyl methacrylate	0.23130	0.24772	0.24772	0.100	7.09771	30.00000	Aver		
	53 Bromodichloromethane	0.64960	0.74455	0.74455	0.010	14.61607	30.00000	Aver		
	54 1,4-Dioxane	0.12861	0.12973	0.12973	0.010	0.87017	30.00000	Aver		
	55 Methylcyclohexane	0.16791	0.17521	0.17521	0.010	4.35103	30.00000	Aver		
	56 Methyl Isobutyl Ketone	0.67786	0.71410	0.71410	0.010	5.34616	30.00000	Aver		
	57 cis-1,3-Dichloropropene	0.43603	0.49342	0.49342	0.010	13.16366	30.00000	Aver		
	58 trans-1,3-Dichloropropene	0.39438	0.46465	0.46465	0.010	17.81792	30.00000	Aver		
$	59 Toluene-d8 (S)	0.83944	0.83998	0.83998	0.010	0.06424	30.00000	Aver		
	60 Toluene	0.94500	0.96976	0.96976	0.010	2.62014	30.00000	Aver		
	61 1,1,2-Trichloroethane	0.35599	0.37560	0.37560	0.010	5.51036	30.00000	Aver		
	62 Methyl Butyl Ketone	0.95895	0.96352	0.96352	0.010	0.47665	30.00000	Aver		
	63 n-Octane	0.99651	0.98172	0.98172	0.010	-1.48414	30.00000	Aver		
	64 Dibromochloromethane	1.16053	1.41895	1.41895	0.010	22.26761	30.00000	Aver		
	65 1,2-Dibromoethane	0.91073	0.98957	0.98957	0.010	8.65734	30.00000	Aver		
	66 Tetrachloroethene	0.99150	0.99900	0.99900	0.010	0.75614	30.00000	Aver		
	68 Chlorobenzene	1.20558	1.24982	1.24982	0.010	3.66928	30.00000	Aver		
	69 Ethyl Benzene	1.86734	1.87603	1.87603	0.010	0.46550	30.00000	Aver		
	70 m&p-Xylene	1.46607	1.44383	1.44383	0.010	-1.51751	30.00000	Aver		
	71 Bromoform	0.94186	1.30855	1.30855	0.010	38.93275	30.00000	Aver		<-
	72 n-Nonane	0.89515	0.94581	0.94581	0.010	5.65972	30.00000	Aver		
	73 Styrene	0.95444	1.02412	1.02412	0.010	7.30062	30.00000	Aver		
	74 o-Xylene	1.46518	1.45915	1.45915	0.010	-0.41202	30.00000	Aver		
	75 1,1,2,2-Tetrachloroethane	0.88468	0.90439	0.90439	0.010	2.22794	30.00000	Aver		
	76 Isopropylbenzene	2.01325	2.06612	2.06612	0.010	2.62627	30.00000	Aver		
	77 N-Propylbenzene	2.05353	2.15278	2.15278	0.010	4.83324	30.00000	Aver		
	78 4-Ethyltoluene	1.77983	1.84975	1.84975	0.010	3.92880	30.00000	Aver		
	79 1,3,5-Trimethylbenzene	1.51803	1.55945	1.55945	0.010	2.72848	30.00000	Aver		
	80 n-Decane	0.44389	0.51638	0.51638	0.010	16.33197	30.00000	Aver		
	81 Tert-Butyl Benzene	1.62531	1.65129	1.65129	0.010	1.59888	30.00000	Aver		
	82 1,2,4-Trimethylbenzene	1.30053	1.43062	1.43062	0.010	10.00293	30.00000	Aver		
	83 1,3-Dichlorobenzene	0.88116	0.96215	0.96215	0.010	9.19156	30.00000	Aver		
	84 Sec- Butylbenzene	1.96470	2.03457	2.03457	0.010	3.55622	30.00000	Aver		
$	85 1,4-dichlorobenzene-d4 (S)	0.40915	0.53689	0.53689	0.010	31.22218	30.00000	Aver	(M)	<-
	86 Benzyl Chloride	0.66334	0.81896	0.81896	0.010	23.46084	30.00000	Aver		

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10air7.i\030517.b\06405.D
Report Date: 05-Mar-2017 11:18

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10air7.i Injection Date: 05-MAR-2017 10:57
Lab File ID: 06405.D Init. Cal. Date(s): 04-MAR-2017 04-MAR-2017
Analysis Type: AIR Init. Cal. Times: 08:10 10:36
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10air7.i\030517.b\TO15_063-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
87 1,4-Dichlorobenzene	0.80797	0.88668	0.88668	0.010	9.74186	30.00000	Aver		
88 p-Isopropyltoluene	1.61151	1.69935	1.69935	0.010	5.45077	30.00000	Aver		
89 1,2,3-Trimethylbenzene	1.32799	1.35058	1.35058	0.010	1.70138	30.00000	Aver		
90 1,2-Dichlorobenzene	0.77784	0.82980	0.82980	0.010	6.67965	30.00000	Aver		
91 N-Butylbenzene	1.08312	1.19374	1.19374	0.010	10.21358	30.00000	Aver		
92 1,2-Dibromo-3-Chloropropane	0.18548	0.26447	0.26447	0.010	42.59310	30.00000	Aver		<-
93 1,2,4-Trichlorobenzene	10.00000	14.01379	0.12838	0.010	40.13788	30.00000	Line		<-
94 Naphthalene	10.00000	15.43546	0.25541	0.010	54.35462	30.00000	Line		<-
95 Hexachlorobutadiene	10.00000	14.18942	0.25812	0.010	41.89416	30.00000	Quad		<-

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Average %D / Drift Results.
Calculated Average %D/Drift = 20.47311
Maximun Average %D/Drift = 0.000e+000
* Failed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06101BFB.D BFB Injection Date: 03/02/2017
Instrument ID: 10AIRB BFB Injection Time: 07:16
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	21.18	
75	30.00 - 66.00% of mass 95	48.17	
96	5.00 - 9.00% of mass 95	6.23	
173	Less than 2.00% of mass 174	0.90	(0.94)
174	50.00 - 120.00% of mass 95	95.41	
175	4.00 - 9.00% of mass 174	6.96	(7.30)
176	93.00 - 101.00% of mass 174	91.75	(96.16)
177	5.00 - 9.00% of mass 176	5.98	(6.52)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	06109.D	03/02/2017	11:19
2	CAL2	CAL2	06110.D	03/02/2017	11:46
3	CAL3	CAL3	06111.D	03/02/2017	12:14
4	CAL4	CAL4	06112.D	03/02/2017	12:43
5	CAL5	CAL5	06113.D	03/02/2017	13:10
6	CAL6	CAL6	06114.D	03/02/2017	13:39
7	CAL7	CAL7	06115.D	03/02/2017	14:08
8	ICV (LCS)	ICV	06117.D	03/02/2017	15:02

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Calibration File Names:
Level 01: all \\192.168.10.12\chem\10airB.i\030217.b\06109.D
Level 02: all \\192.168.10.12\chem\10airB.i\030217.b\06110.D
Level 03: all \\192.168.10.12\chem\10airB.i\030217.b\06111.D
Level 04: all \\192.168.10.12\chem\10airB.i\030217.b\06112.D
Level 05: all \\192.168.10.12\chem\10airB.i\030217.b\06113.D
Level 06: all \\192.168.10.12\chem\10airB.i\030217.b\06114.D
Level 07: all \\192.168.10.12\chem\10airB.i\030217.b\06115.D

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Chloropentafluoroethane	1604	3252	3232	5096	104607	+++++	+++++	LINR	-0.00090	0.07460		0.99641
2 1,1-Difluoroethane	0.04907	0.06383	0.05871	0.05580	0.06051	0.05847	0.06399	AVRG		0.05863		8.77337
3 Chlorodifluoromethane	246	740	2020	3964	41204	80199	+++++	LINR	0.00012	0.02798		0.99946
4 Propylene	+++++	5938	12525	24954	98681	197124	287080	LINR	0.00470	0.06927		0.99648

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
5 Dichlorodifluoromethane	5463 +++++	9737	20944	41132	413909	810812	LINR	0.00223	0.28189		0.99963
6 Chloromethane	0.11898	0.12708	0.10813	0.10743	0.11466	0.11047					
	0.11752						AVRG		0.11490		6.08607
7 Dichlorotetrafluoroethane	0.28412	0.30889	0.27070	0.26600	0.27057	0.26389					
	0.27923						AVRG		0.27763		5.58743
8 Vinyl chloride	0.09509	0.10099	0.09950	0.09199	0.10191	0.09874					
	0.10655						AVRG		0.09925		4.75711
9 1,3-Butadiene	0.05391	0.07556	0.07312	0.07192	0.07709	0.07383					
	0.08059						AVRG		0.07229		11.89494
10 Bromomethane	0.08947	0.09822	0.08330	0.09096	0.09309	0.09088					
	0.09682						AVRG		0.09182		5.39696
11 Chloroethane	0.03819	0.05297	0.04520	0.04372	0.04546	0.04563					
	0.04831						AVRG		0.04564		9.80664

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Ethanol	0.03522	0.04042	0.03424	0.03385	0.03683	0.03737						
	0.03928							AVRG		0.03674		6.78934
13 Vinyl Bromide	0.08975	0.10765	0.08918	0.09053	0.09716	0.09296						
	0.09853							AVRG		0.09511		6.95676
14 Isopentane	2027	3504	8126	19900	145015	281297						
	397743							LINR	0.00137	0.09936		0.99946
15 Freon 123	3166	6319	15648	16103	129273	313230						
	415076							LINR	0.00086	0.10477		0.99707
16 Trichlorofluoromethane	0.26982	0.32357	0.26730	0.26491	0.26724	0.25660						
	0.26965							AVRG		0.27416		8.11471
17 Acrolein	775	1831	4758	9510	138213	268448						
	385253							QUAD	-0.00070	0.03680	0.00028	0.99942
18 Acetone	0.18064	0.18872	0.15744	0.15292	0.14823	0.14001						
	0.14269							AVRG		0.15867		11.88329

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
19 Isopropyl Alcohol	0.15763	0.18004	0.16031	0.15685	0.16644	0.15379					
	0.15766						AVRG		0.16182		5.52630
20 1,1-Dichloroethene	0.15042	0.18079	0.15074	0.15557	0.16140	0.15494					
	0.16226						AVRG		0.15945		6.57851
21 Acrylonitrile	0.06401	0.07958	0.07178	0.06963	0.07949	0.07360					
	0.07512						AVRG		0.07332		7.53853
22 Freon 113	0.20290	0.23676	0.21541	0.21019	0.20544	0.18768					
	0.19083						AVRG		0.20703		7.93831
23 Methyl Acetate	0.24600	0.28365	0.24125	0.23673	0.24529	0.22152					
	0.21654						AVRG		0.24157		9.03208
24 Tert Butyl Alcohol (TBA)	0.20789	0.23454	0.21267	0.20927	0.21143	0.19109					
	0.18922						AVRG		0.20802		7.28573
25 Methylene chloride	0.12486	0.12863	0.11364	0.10974	0.10908	0.09990					
	0.09808						AVRG		0.11199		10.29977

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
26 Allyl Chloride	998	2156	5091	11220	140726	270021					
	360233						QUAD	-0.00091	0.04080	-0.00057	0.99986
27 Carbon Disulfide	0.17986	0.19150	0.20428	0.20601	0.23438	0.22813					
	0.23219						AVRG		0.21091		10.07488
28 trans-1,2-dichloroethene	0.07503	0.08339	0.09494	0.09061	0.09728	0.09169					
	0.09329						AVRG		0.08946		8.62620
29 Methyl Tert Butyl Ether	0.25867	0.26679	0.26248	0.25662	0.25690	0.24424					
	0.23949						AVRG		0.25503		3.82490
30 Vinyl Acetate	+++++	4581	11738	24341	385061	772513					
	1072670						QUAD	-0.00502	0.27169	0.00039	0.99985
31 1,1-Dichloroethane	0.16713	0.17331	0.17791	0.16887	0.17978	0.17421					
	0.17860						AVRG		0.17426		2.80642
33 Methyl Ethyl Ketone	413	1030	3113	6401	65846	136332					
	188259						LINR	-0.00035	0.04762		0.99995

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
34 n-Hexane	0.15219	0.17180	0.15757	0.15809	0.16476	0.15753					
	0.15431						AVRG		0.15946		4.19713
35 Di-isopropyl Ether	0.29073	0.32953	0.30665	0.31510	0.31267	0.30686					
	0.30329						AVRG		0.30926		3.84474
36 Ethyl Acetate	0.18718	0.20821	0.20219	0.20145	0.22630	0.20681					
	0.20449						AVRG		0.20523		5.64392
37 cis-1,2-Dichloroethene	0.08790	0.09791	0.09585	0.10208	0.11359	0.10201					
	0.10033						AVRG		0.09995		7.76168
38 Ethyl Tert-Butyl Ether	0.33357	0.32421	0.30640	0.35487	0.34762	0.31600					
	0.28396						AVRG		0.32381		7.54289
39 Chloroform	0.19920	0.19789	0.20212	0.22254	0.22603	0.20669					
	0.19573						AVRG		0.20717		5.90539
40 Tetrahydrofuran	0.09352	0.11602	0.11217	0.11030	0.11359	0.11356					
	0.11599						AVRG		0.11074		7.09391

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	30.0000 Level 7										
41 1,1,1-Trichloroethane	0.22737	0.25316	0.24262	0.24336	0.25641	0.24012					
	0.24303						AVRG		0.24372		3.86416
42 1,2-Dichloroethane	0.18128	0.20743	0.18724	0.17899	0.18979	0.17568					
	0.17382						AVRG		0.18489		6.21802
43 Benzene	0.31171	0.32607	0.33236	0.31269	0.33860	0.32105					
	0.31508						AVRG		0.32251		3.19963
44 Carbon tetrachloride	0.20909	0.24599	0.24225	0.23334	0.27264	0.25235					
	0.24937						AVRG		0.24358		7.96219
45 Cyclohexane	0.16443	0.16627	0.16904	0.16158	0.16763	0.15400					
	0.14717						AVRG		0.16145		4.97615
46 Tert Amyl Methyl Ether	18270	20967	35082	56548	445708	890854					
	1221003						LINR	0.00956	0.30539		0.99998
48 2,2,4-Trimethylpentane	0.50958	0.53058	0.50192	0.51218	0.51793	0.47603					
	0.44850						AVRG		0.49953		5.61871

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
49 Heptane	0.16777	0.18321	0.17622	0.17889	0.18730	0.18280						
	0.18526						AVRG		0.18021		3.68106	
50 1,2-Dichloropropane	0.10497	0.12424	0.11629	0.11669	0.12070	0.11726						
	0.11759						AVRG		0.11682		5.08339	
51 Trichloroethene	0.15582	0.17814	0.16982	0.16813	0.17159	0.16617						
	0.16646						AVRG		0.16802		4.01609	
52 Methyl methacrylate	0.09772	0.11462	0.09998	0.10330	0.11687	0.11624						
	0.11625						AVRG		0.10928		7.82967	
53 1,4-Dioxane	+++++	0.07571	0.07103	0.06920	0.07879	0.07867						
	0.07869						AVRG		0.07535		5.65122	<-
54 Bromodichloromethane	0.21158	0.24802	0.22534	0.22917	0.25791	0.24572						
	0.24880						AVRG		0.23808		6.87954	
55 Methylcyclohexane	880	2326	5684	12229	132902	266242						
	381479						QUAD	0.00004	0.08838	0.00263	0.99977	

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
						30.0000 Level 7					
56 Methyl Isobutyl Ketone	0.22195	0.26034	0.23797	0.24491	0.26557	0.24586					
	0.24523						AVRG		0.24597		5.82913
57 cis-1,3-Dichloropropene	1869	4624	11439	23875	285919	572916					
	802416						LINR	-0.00192	0.20261		0.99982
58 trans-1,3-Dichloropropene	1570	3360	9313	20281	268282	540240					
	767727						QUAD	-0.00158	0.18207	0.00413	0.99982
60 1,1,2-Trichloroethane	0.13072	0.14804	0.13627	0.12746	0.13595	0.12970					
	0.13071						AVRG		0.13412		5.17316
61 Toluene	0.38916	0.44540	0.40158	0.39773	0.40896	0.39760					
	0.38675						AVRG		0.40388		4.89194
62 Methyl Butyl Ketone	0.28663	0.29631	0.30585	0.31073	0.36206	0.34067					
	0.30862						AVRG		0.31584		8.34206
63 n-Octane	0.29207	0.33524	0.34580	0.35107	0.38006	0.35999					
	0.33009						AVRG		0.34204		8.05009

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	30.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
64 Dibromochloromethane	2474 +++++	5941	14525	31027	385835	768082		LINR	-0.00176	0.39596		0.99963
65 1,2-Dibromoethane	0.29331	0.32167	0.31961	0.32276	0.34926	0.33384		AVRG		0.32276		5.24361
	0.31887											
66 Tetrachloroethene	0.34391	0.39141	0.35716	0.34645	0.34946	0.33288		AVRG		0.34724		7.15405
	0.30942											
68 Chlorobenzene	0.50757	0.49302	0.50324	0.47975	0.51011	0.49597		AVRG		0.49598		2.39875
	0.48219											
69 Ethyl Benzene	0.63105	0.69350	0.75373	0.75767	0.80239	0.76885		AVRG		0.73550		7.67448
	0.74134											
70 m&p-Xylene	0.54709	0.56056	0.58709	0.58750	0.63367	0.58090		AVRG		0.57729		5.32940
	0.54419											
71 n-Nonane	0.23991	0.25232	0.30355	0.32308	0.35571	0.32001		AVRG		0.29775		13.71498
	0.28968											

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
72 Bromoform	1731 / 1008290	3665	10681	23365	367770	705920	QUAD	-0.00691	0.40720	-0.02023	0.99982
73 Styrene	3030 / 1314898	6483	19327	41273	465333	918818	QUAD	-0.00399	0.51302	-0.02071	0.99999
74 o-Xylene	0.54284 / 0.58304	0.55619	0.58404	0.60209	0.63683	0.60612	AVRG		0.58731		5.38409
75 1,1,2,2-Tetrachloroethane	0.28133 / 0.34089	0.29909	0.30949	0.31566	0.36746	0.35145	AVRG		0.32362		9.48066
76 Isopropylbenzene	0.86950 / 0.78729	0.84572	0.82595	0.80512	0.86425	0.82068	AVRG		0.83122		3.64806
77 N-Propylbenzene	5321 / +++++	12256	35990	77311	929423	1826015	LINR	-0.00241	0.94285		0.99939
78 4-Ethyltoluene	4421 / 2322755	10605	30251	69266	815307	1614385	QUAD	-0.00900	0.89638	-0.03311	0.99998

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
79 1,3,5-Trimethylbenzene	4235	9860	28097	61066	689551	1370583					
	+++++						LINR	-0.00130	0.70575		0.99966
80 n-Decane	1450	3858	11603	27313	350331	729038					
	1038909						LINR	-0.00620	0.26167		0.99940
81 Tert-Butyl Benzene	0.56680	0.61270	0.67584	0.68138	0.74872	0.70347					
	0.65929						AVRG		0.66403		8.96869
82 1,2,4-Trimethylbenzene	0.49112	0.54574	0.57970	0.62431	0.68706	0.63694					
	0.59336						AVRG		0.59403		10.76645
83 1,3-Dichlorobenzene	2849	6190	16619	35362	423299	815126					
	+++++						LINR	0.00042	0.42172		0.99883
84 Sec- Butylbenzene	0.69229	0.74745	0.81958	0.87314	0.98355	0.88644					
	0.82157						AVRG		0.83200		11.46062
86 Benzyl Chloride	+++++	3597	9078	22499	427013	897595					
	1343950						QUAD	-0.01363	0.46373	0.00022	0.99991

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1 / 30.0000 Level 7	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
87 1,4-Dichlorobenzene	0.34312	0.35215	0.36805	0.38523	0.44083	0.42325					
	0.41139						AVRG		0.38915		9.54420
88 p-Isopropyltoluene	4750	11000	31230	67948	793111	1535893					
	+++++						LINR	0.00032	0.79402		0.99902
89 1,2,3-Trimethylbenzene	0.49291	0.51053	0.57370	0.59567	0.68477	0.63533					
	0.61245						AVRG		0.58648		11.54196
90 1,2-Dichlorobenzene	2466	5537	14338	32463	395633	776749					
	1131959						QUAD	-0.00389	0.42770	-0.01328	0.99994
91 N-Butylbenzene	2805	7061	20942	47311	612616	1214291					
	1755538						LINR	0.00139	0.60841		0.99917
92 1,2-Dibromo-3-Chloropropane	387	957	3096	7071	154681	319932					
	467876						LINR	-0.00318	0.16248		0.99959
93 1,2,4-Trichlorobenzene	+++++	513	2447	7389	156379	358428					
	553071						QUAD	-0.00633	0.16753	0.00809	0.99974

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Compound (all.sb)	0.1000000 Level 1	0.2000000 Level 2	0.5000000 Level 3	1.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	30.0000 Level 7										
94 Naphthalene	645	1944	7018	19022	369664	797177					
	1218782						LINR	-0.01424	0.41809		0.99958
95 Hexachlorobutadiene	0.13792	0.16150	0.17377	0.18747	0.19308	0.18620					
	0.17473						AVRG		0.17353		10.91245
$ 32 Hexane-d14(S)	0.31889	0.30929	0.31483	0.31375	0.31188	0.32281					
	0.33562						AVRG		0.31815		2.79904
$ 59 Toluene-d8 (S)	0.86049	0.94509	0.86662	0.86999	0.88227	0.89817					
	0.94256						AVRG		0.89503		3.96718
$ 85 1,4-dichlorobenzene-d4 (S)	0.49310	0.47520	0.50594	0.53279	0.61007	0.62504					
	0.61393						AVRG		0.55087		11.57446

Report Date : 03-Mar-2017 08:11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2017 11:19
End Cal Date : 02-MAR-2017 14:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airB.i\030217.b\TO15_061-17.m
Last Edit : 02-Mar-2017 16:01 10airB.i

Average %RSD Results.	
Calculated Average %RSD =	6.97496
Maximun Average %RSD =	30.00000
* Passed Average %RSD Test.	

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + m1*Rsp	Amount
Quad	Rsp = b + m1*Amt + m2*Amt^2	Amount

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06301BFB.D BFB Injection Date: 03/04/2017
Instrument ID: 10AIRB BFB Injection Time: 06:28
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.21	
75	30.00 - 66.00% of mass 95	46.92	
96	5.00 - 9.00% of mass 95	6.41	
173	Less than 2.00% of mass 174	0.94	(1.01)
174	50.00 - 120.00% of mass 95	93.87	
175	4.00 - 9.00% of mass 174	6.88	(7.33)
176	93.00 - 101.00% of mass 174	91.50	(97.48)
177	5.00 - 9.00% of mass 176	5.47	(5.98)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 462564 [AIR/27836]	2529400	06302_27836.D	03/04/2017	06:56
2	CCV	CCV	06302.D	03/04/2017	06:56
3	BLANK for HBN 462564 [AIR/2783	2529399	06312_27836.D	03/04/2017	12:20
4	VP-8_10_20170221(2522486DUP)	2529705-DUP	06319.D	03/04/2017	15:56
5	SS-C1_20170215	10379458001	06327.D	03/04/2017	20:12
6	SS-C20_20170215	10379458002	06328.D	03/04/2017	20:43
7	SS-E16_20170215	10379458003	06329.D	03/04/2017	21:16
8	SS-D7_20170215	10379458004	06331.D	03/04/2017	22:16
9	~~SS-D13_20170215~~ IA-D13_20170215	10379458005	06332.D	03/04/2017	22:47
10	SS-G18_20170215	10379458006	06333.D	03/04/2017	23:20
11	IA-C1_20170215	10379458007	06334.D	03/04/2017	23:52
12	IA-C20_20170215	10379458008	06335.D	03/05/2017	00:23
13	IA-E16_20170215	10379458009	06336.D	03/05/2017	00:56

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	1 Chloropentafluoroethane	10.00000	7.05429	0.05173	0.010	-29.45712	30.00000	Line	
	2 1,1-Difluoroethane	0.05863	0.05567	0.05567	0.010	-5.04712	30.00000	Aver	
	3 Chlorodifluoromethane	10.00000	9.76930	0.02745	0.010	-2.30697	30.00000	Line	
	4 Propylene	10.00000	8.76125	0.06538	0.010	-12.38750	30.00000	Line	
	5 Dichlorodifluoromethane	10.00000	9.63088	0.27372	0.010	-3.69123	30.00000	Line	
	6 Chloromethane	0.11490	0.10764	0.10764	0.010	-6.31741	30.00000	Aver	
	7 Dichlorotetrafluoroethane	0.27763	0.25037	0.25037	0.010	-9.81846	30.00000	Aver	
	8 Vinyl chloride	0.09925	0.09587	0.09587	0.010	-3.40987	30.00000	Aver	
	9 1,3-Butadiene	0.07229	0.07193	0.07193	0.010	-0.49391	30.00000	Aver	
	10 Bromomethane	0.09182	0.08683	0.08683	0.010	-5.43471	30.00000	Aver	
	11 Chloroethane	0.04564	0.04299	0.04299	0.010	-5.80737	30.00000	Aver	
	12 Ethanol	0.03674	0.03225	0.03225	0.005	-12.24301	30.00000	Aver	
	13 Vinyl Bromide	0.09511	0.09076	0.09076	0.010	-4.57065	30.00000	Aver	
	14 Isopentane	10.00000	9.18981	0.09267	0.010	-8.10186	30.00000	Line	
	15 Freon 123	10.00000	8.64887	0.09147	0.010	-13.51129	30.00000	Line	
	16 Trichlorofluoromethane	0.27416	0.24677	0.24677	0.010	-9.98958	30.00000	Aver	
	17 Acrolein	25.00000	23.92617	0.03559	0.010	-4.29532	30.00000	Quad	
	18 Acetone	0.15867	0.13861	0.13861	0.010	-12.63812	30.00000	Aver	
	19 Isopropyl Alcohol	0.16182	0.14651	0.14651	0.010	-9.46195	30.00000	Aver	
	20 1,1-Dichloroethene	0.15945	0.15047	0.15047	0.010	-5.62958	30.00000	Aver	
	21 Acrylonitrile	0.07332	0.07348	0.07348	0.010	0.21860	30.00000	Aver	
	22 Freon 113	0.20703	0.18759	0.18759	0.010	-9.39054	30.00000	Aver	
	23 Methyl Acetate	0.24157	0.22621	0.22621	0.010	-6.35846	30.00000	Aver	
	24 Tert Butyl Alcohol (TBA)	0.20802	0.19252	0.19252	0.010	-7.45164	30.00000	Aver	
	25 Methylene chloride	0.11199	0.10193	0.10193	0.010	-8.97670	30.00000	Aver	
	26 Allyl Chloride	25.00000	23.90743	0.03735	0.010	-4.37027	30.00000	Quad	
	27 Carbon Disulfide	0.21091	0.21909	0.21909	0.010	3.88191	30.00000	Aver	
	28 trans-1,2-dichloroethene	0.08946	0.09051	0.09051	0.010	1.16931	30.00000	Aver	
	29 Methyl Tert Butyl Ether	0.25503	0.23748	0.23748	0.010	-6.87894	30.00000	Aver	
	30 Vinyl Acetate	10.00000	9.48893	0.25313	0.010	-5.11068	30.00000	Quad	
	31 1,1-Dichloroethane	0.17426	0.16835	0.16835	0.010	-3.38901	30.00000	Aver	
$	32 Hexane-d14(S)	0.31815	0.31891	0.31891	0.010	0.23647	30.00000	Aver	
	33 Methyl Ethyl Ketone	10.00000	9.06476	0.04282	0.010	-9.35239	30.00000	Line	
	34 n-Hexane	0.15946	0.14559	0.14559	0.010	-8.69964	30.00000	Aver	(M)
	35 Di-isopropyl Ether	0.30926	0.29225	0.29225	0.010	-5.50078	30.00000	Aver	
	36 Ethyl Acetate	0.20523	0.19272	0.19272	0.010	-6.09667	30.00000	Aver	
	37 cis-1,2-Dichloroethene	0.09995	0.09983	0.09983	0.010	-0.12823	30.00000	Aver	
	38 Ethyl Tert-Butyl Ether	0.32381	0.32027	0.32027	0.010	-1.09056	30.00000	Aver	
	39 Chloroform	0.20717	0.21285	0.21285	0.010	2.74026	30.00000	Aver	
	40 Tetrahydrofuran	0.11074	0.10148	0.10148	0.010	-8.35586	30.00000	Aver	
	41 1,1,1-Trichloroethane	0.24372	0.24155	0.24155	0.010	-0.89106	30.00000	Aver	
	42 1,2-Dichloroethane	0.18489	0.17705	0.17705	0.010	-4.23784	30.00000	Aver	

RRF greater than laboratory minimum. No validation required.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

			CCAL	MIN		MAX	CURVE	QC
COMPOUND	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	TYPE	FLAGS
43 Benzene	0.32251	0.31269	0.31269	0.010	-3.04410	30.00000	Aver	
44 Carbon tetrachloride	0.24358	0.25634	0.25634	0.010	5.24060	30.00000	Aver	
45 Cyclohexane	0.16145	0.15446	0.15446	0.010	-4.32820	30.00000	Aver	
46 Tert Amyl Methyl Ether	10.00000	8.98553	0.28397	0.010	-10.14467	30.00000	Line	
48 2,2,4-Trimethylpentane	0.49953	0.48061	0.48061	0.010	-3.78821	30.00000	Aver	
49 Heptane	0.18021	0.17226	0.17226	0.010	-4.40830	30.00000	Aver	
50 1,2-Dichloropropane	0.11682	0.11156	0.11156	0.010	-4.50083	30.00000	Aver	
51 Trichloroethene	0.16802	0.15911	0.15911	0.010	-5.30264	30.00000	Aver	
52 Methyl methacrylate	0.10928	0.10650	0.10650	0.010	-2.54268	30.00000	Aver	
53 1,4-Dioxane	0.07535	0.07206	0.07206	0.010	-4.36020	30.00000	Aver	
54 Bromodichloromethane	0.23808	0.23859	0.23859	0.010	0.21720	30.00000	Aver	
55 Methylcyclohexane	10.00000	9.49897	0.08637	0.010	-5.01028	30.00000	Quad	
56 Methyl Isobutyl Ketone	0.24597	0.23410	0.23410	0.010	-4.82607	30.00000	Aver	
57 cis-1,3-Dichloropropene	10.00000	9.28812	0.18627	0.010	-7.11882	30.00000	Line	
58 trans-1,3-Dichloropropene	10.00000	9.53732	0.17582	0.010	-4.62676	30.00000	Quad	
$ 59 Toluene-d8 (S)	0.89503	0.88073	0.88073	0.010	-1.59730	30.00000	Aver	
60 1,1,2-Trichloroethane	0.13412	0.12485	0.12485	0.010	-6.91000	30.00000	Aver	
61 Toluene	0.40388	0.38120	0.38120	0.010	-5.61726	30.00000	Aver	
62 Methyl Butyl Ketone	0.31584	0.33934	0.33934	0.010	7.44255	30.00000	Aver	
63 n-Octane	0.34204	0.33040	0.33040	0.010	-3.40392	30.00000	Aver	
64 Dibromochloromethane	10.00000	9.43571	0.37185	0.010	-5.64294	30.00000	Line	
65 1,2-Dibromoethane	0.32276	0.31989	0.31989	0.010	-0.88819	30.00000	Aver	
66 Tetrachloroethene	0.34724	0.32219	0.32219	0.010	-7.21468	30.00000	Aver	
68 Chlorobenzene	0.49598	0.46419	0.46419	0.010	-6.40956	30.00000	Aver	
69 Ethyl Benzene	0.73550	0.72193	0.72193	0.010	-1.84564	30.00000	Aver	
70 m&p-Xylene	0.57729	0.56732	0.56732	0.010	-1.72668	30.00000	Aver	
71 n-Nonane	0.29775	0.33880	0.33880	0.010	13.78613	30.00000	Aver	
72 Bromoform	10.00000	9.47972	0.36093	0.010	-5.20276	30.00000	Quad	
73 Styrene	10.00000	9.35381	0.45776	0.010	-6.46192	30.00000	Quad	
74 o-Xylene	0.58731	0.57578	0.57578	0.010	-1.96298	30.00000	Aver	
75 1,1,2,2-Tetrachloroethane	0.32362	0.35360	0.35360	0.010	9.26358	30.00000	Aver	
76 Isopropylbenzene	0.83122	0.81838	0.81838	0.010	-1.54387	30.00000	Aver	
77 N-Propylbenzene	10.00000	10.09018	0.94894	0.010	0.90184	30.00000	Line	
78 4-Ethyltoluene	10.00000	9.85625	0.84233	0.010	-1.43752	30.00000	Quad	
79 1,3,5-Trimethylbenzene	10.00000	10.15160	0.71515	0.010	1.51597	30.00000	Line	
80 n-Decane	10.00000	9.83266	0.25109	0.010	-1.67342	30.00000	Line	
81 Tert-Butyl Benzene	0.66403	0.73826	0.73826	0.010	11.17866	30.00000	Aver	
82 1,2,4-Trimethylbenzene	0.59403	0.67259	0.67259	0.010	13.22483	30.00000	Aver	
83 1,3-Dichlorobenzene	10.00000	10.25865	0.43306	0.010	2.58654	30.00000	Line	
84 Sec- Butylbenzene	0.83200	0.93632	0.93632	0.010	12.53775	30.00000	Aver	
$ 85 1,4-dichlorobenzene-d4 (S)	0.55087	0.63106	0.63106	0.010	14.55769	30.00000	Aver	(M)
86 Benzyl Chloride	10.00000	9.94028	0.44754	0.010	-0.59720	30.00000	Quad	(M)

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030417.b\06302.D
Report Date: 04-Mar-2017 07:15

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 04-MAR-2017 06:56
Lab File ID: 06302.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030417.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.43090	0.43090	0.010	10.72958	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.08742	0.80127	0.010	0.87418	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.65116	0.65116	0.010	11.02901	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	9.77420	0.40146	0.010	-2.25802	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.38389	0.63315	0.010	3.83887	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.32083	0.16451	0.010	3.20830	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.56191	0.16126	0.010	-4.38095	30.00000	Quad	
94 Naphthalene	10.00000	9.26310	0.37304	0.010	-7.36904	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.16834	0.16834	0.010	-2.98910	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 5.72480
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10379458
Lab File ID: 06401BFB.D BFB Injection Date: 03/05/2017
Instrument ID: 10AIRB BFB Injection Time: 09:08
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
95	Base Peak, 100% relative abundance	100.00	
50	8.00 - 40.00% of mass 95	20.04	
75	30.00 - 66.00% of mass 95	47.83	
96	5.00 - 9.00% of mass 95	6.22	
173	Less than 2.00% of mass 174	0.95	(0.99)
174	50.00 - 120.00% of mass 95	95.49	
175	4.00 - 9.00% of mass 174	6.70	(7.02)
176	93.00 - 101.00% of mass 174	91.43	(95.75)
177	5.00 - 9.00% of mass 176	6.11	(6.68)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	LCS for HBN 462594 [AIR/27839]	2529704	06402_27839.D	03/05/2017	09:36
2	CCV	CCV	06402.D	03/05/2017	09:36
3	BLANK for HBN 462594 [AIR/2783	2529703	06409_27839.D	03/05/2017	13:11
4	IA-D7_20170215	10379458010	06410.D	03/05/2017	13:42
5	~~IA-D13_20170215~~ SS-D13_20170215	10379458011	06411.D	03/05/2017	14:14
6	IA-G18_20170215	10379458012	06412.D	03/05/2017	14:45
7	IA-12_20170215	10379458013	06413.D	03/05/2017	15:16
8	SS-C1_20170215DUP	10379458014	06414.D	03/05/2017	15:48
9	IA-C20_20170215DUP	10379458015	06415.D	03/05/2017	16:19
10	AA_20170215	10379458016	06417.D	03/05/2017	17:17
11	VP-NYSDEC-5_5_2...(2524233DUP)	2530069-DUP	06419.D	03/05/2017	18:20

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS	
	1 Chloropentafluoroethane	10.00000	5.95094	0.04349	0.010	-40.49065	30.00000	Line		<-
	2 1,1-Difluoroethane	0.05863	0.05687	0.05687	0.010	-2.98870	30.00000	Aver		
	3 Chlorodifluoromethane	10.00000	9.89362	0.02780	0.010	-1.06375	30.00000	Line		
	4 Propylene	10.00000	8.79567	0.06562	0.010	-12.04329	30.00000	Line		
	5 Dichlorodifluoromethane	10.00000	9.81287	0.27885	0.010	-1.87128	30.00000	Line		
	6 Chloromethane	0.11490	0.10738	0.10738	0.010	-6.53830	30.00000	Aver		
	7 Dichlorotetrafluoroethane	0.27763	0.25581	0.25581	0.010	-7.85894	30.00000	Aver		
	8 Vinyl chloride	0.09925	0.09398	0.09398	0.010	-5.31650	30.00000	Aver		
	9 1,3-Butadiene	0.07229	0.07046	0.07046	0.010	-2.52096	30.00000	Aver		
	10 Bromomethane	0.09182	0.08632	0.08632	0.010	-5.99227	30.00000	Aver		
	11 Chloroethane	0.04564	0.04118	0.04118	0.010	-9.76728	30.00000	Aver		
	12 Ethanol	0.03674	0.03196	0.03196	0.005	-13.02125	30.00000	Aver		
	13 Vinyl Bromide	0.09511	0.08975	0.08975	0.010	-5.63138	30.00000	Aver		
	14 Isopentane	10.00000	9.68376	0.09758	0.010	-3.16239	30.00000	Line		
	15 Freon 123	10.00000	7.70672	0.08160	0.010	-22.93282	30.00000	Line		
	16 Trichlorofluoromethane	0.27416	0.25217	0.25217	0.010	-8.02013	30.00000	Aver		
	17 Acrolein	25.00000	23.50046	0.03494	0.010	-5.99815	30.00000	Quad		
	18 Acetone	0.15867	0.13573	0.13573	0.010	-14.45730	30.00000	Aver		
	19 Isopropyl Alcohol	0.16182	0.14772	0.14772	0.010	-8.71206	30.00000	Aver		
	20 1,1-Dichloroethene	0.15945	0.15154	0.15154	0.010	-4.95750	30.00000	Aver		
	21 Acrylonitrile	0.07332	0.07226	0.07226	0.010	-1.44396	30.00000	Aver		
	22 Freon 113	0.20703	0.19523	0.19523	0.010	-5.70109	30.00000	Aver		
	23 Methyl Acetate	0.24157	0.23131	0.23131	0.010	-4.24875	30.00000	Aver		
	24 Tert Butyl Alcohol (TBA)	0.20802	0.20159	0.20159	0.010	-3.09060	30.00000	Aver		
	25 Methylene chloride	0.11199	0.10374	0.10374	0.010	-7.36392	30.00000	Aver		
	26 Allyl Chloride	25.00000	24.16612	0.03775	0.010	-3.33553	30.00000	Quad		
	27 Carbon Disulfide	0.21091	0.22369	0.22369	0.010	6.06122	30.00000	Aver		
	28 trans-1,2-dichloroethene	0.08946	0.09296	0.09296	0.010	3.91051	30.00000	Aver		
	29 Methyl Tert Butyl Ether	0.25503	0.24398	0.24398	0.010	-4.33001	30.00000	Aver		
	30 Vinyl Acetate	10.00000	9.41597	0.25114	0.010	-5.84028	30.00000	Quad		
	31 1,1-Dichloroethane	0.17426	0.17031	0.17031	0.010	-2.26804	30.00000	Aver		
$	32 Hexane-d14(S)	0.31815	0.31358	0.31358	0.010	-1.43741	30.00000	Aver		
	33 Methyl Ethyl Ketone	10.00000	9.32700	0.04407	0.010	-6.73000	30.00000	Line		
	34 n-Hexane	0.15946	0.15440	0.15440	0.010	-3.17721	30.00000	Aver	(M)	
	35 Di-isopropyl Ether	0.30926	0.29677	0.29677	0.010	-4.03993	30.00000	Aver		
	36 Ethyl Acetate	0.20523	0.19699	0.19699	0.010	-4.01765	30.00000	Aver		
	37 cis-1,2-Dichloroethene	0.09995	0.10170	0.10170	0.010	1.74201	30.00000	Aver		
	38 Ethyl Tert-Butyl Ether	0.32381	0.29406	0.29406	0.010	-9.18557	30.00000	Aver		
	39 Chloroform	0.20717	0.19832	0.19832	0.010	-4.27336	30.00000	Aver		
	40 Tetrahydrofuran	0.11074	0.10312	0.10312	0.010	-6.88125	30.00000	Aver		
	41 1,1,1-Trichloroethane	0.24372	0.24572	0.24572	0.010	0.81922	30.00000	Aver		
	42 1,2-Dichloroethane	0.18489	0.17932	0.17932	0.010	-3.01020	30.00000	Aver		

RRF greater than laboratory minimum. No validation required.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

	COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
	43 Benzene	0.32251	0.32110	0.32110	0.010	-0.43753	30.00000	Aver	
	44 Carbon tetrachloride	0.24358	0.26156	0.26156	0.010	7.38452	30.00000	Aver	
	45 Cyclohexane	0.16145	0.15550	0.15550	0.010	-3.68484	30.00000	Aver	
	46 Tert Amyl Methyl Ether	10.00000	9.42662	0.29744	0.010	-5.73375	30.00000	Line	
	48 2,2,4-Trimethylpentane	0.49953	0.48380	0.48380	0.010	-3.14877	30.00000	Aver	
	49 Heptane	0.18021	0.17224	0.17224	0.010	-4.41825	30.00000	Aver	
	50 1,2-Dichloropropane	0.11682	0.11251	0.11251	0.010	-3.68941	30.00000	Aver	
	51 Trichloroethene	0.16802	0.16280	0.16280	0.010	-3.10752	30.00000	Aver	
	52 Methyl methacrylate	0.10928	0.10602	0.10602	0.010	-2.98241	30.00000	Aver	
	53 1,4-Dioxane	0.07535	0.07299	0.07299	0.010	-3.12715	30.00000	Aver	
	54 Bromodichloromethane	0.23808	0.23664	0.23664	0.010	-0.60402	30.00000	Aver	
	55 Methylcyclohexane	10.00000	9.44647	0.08588	0.010	-5.53531	30.00000	Quad	
	56 Methyl Isobutyl Ketone	0.24597	0.23210	0.23210	0.010	-5.64128	30.00000	Aver	
	57 cis-1,3-Dichloropropene	10.00000	9.35091	0.18754	0.010	-6.49092	30.00000	Line	
	58 trans-1,3-Dichloropropene	10.00000	9.56218	0.17630	0.010	-4.37823	30.00000	Quad	
$	59 Toluene-d8 (S)	0.89503	0.83975	0.83975	0.010	-6.17637	30.00000	Aver	
	60 1,1,2-Trichloroethane	0.13412	0.12609	0.12609	0.010	-5.99098	30.00000	Aver	
	61 Toluene	0.40388	0.38649	0.38649	0.010	-4.30703	30.00000	Aver	
	62 Methyl Butyl Ketone	0.31584	0.33103	0.33103	0.010	4.80865	30.00000	Aver	
	63 n-Octane	0.34204	0.32826	0.32826	0.010	-4.03028	30.00000	Aver	
	64 Dibromochloromethane	10.00000	9.80152	0.38634	0.010	-1.98483	30.00000	Line	
	65 1,2-Dibromoethane	0.32276	0.33369	0.33369	0.010	3.38746	30.00000	Aver	
	66 Tetrachloroethene	0.34724	0.34451	0.34451	0.010	-0.78561	30.00000	Aver	
	68 Chlorobenzene	0.49598	0.49500	0.49500	0.010	-0.19771	30.00000	Aver	
	69 Ethyl Benzene	0.73550	0.76214	0.76214	0.010	3.62108	30.00000	Aver	
	70 m&p-Xylene	0.57729	0.59309	0.59309	0.010	2.73688	30.00000	Aver	
	71 n-Nonane	0.29775	0.34066	0.34066	0.010	14.41192	30.00000	Aver	
	72 Bromoform	10.00000	9.85964	0.37492	0.010	-1.40357	30.00000	Quad	
	73 Styrene	10.00000	9.73387	0.47575	0.010	-2.66130	30.00000	Quad	
	74 o-Xylene	0.58731	0.59877	0.59877	0.010	1.95106	30.00000	Aver	
	75 1,1,2,2-Tetrachloroethane	0.32362	0.35474	0.35474	0.010	9.61628	30.00000	Aver	
	76 Isopropylbenzene	0.83122	0.84183	0.84183	0.010	1.27728	30.00000	Aver	
	77 N-Propylbenzene	10.00000	10.16911	0.95638	0.010	1.69109	30.00000	Line	
	78 4-Ethyltoluene	10.00000	9.91522	0.84723	0.010	-0.84783	30.00000	Quad	
	79 1,3,5-Trimethylbenzene	10.00000	10.30251	0.72580	0.010	3.02509	30.00000	Line	
	80 n-Decane	10.00000	10.05606	0.25694	0.010	0.56057	30.00000	Line	
	81 Tert-Butyl Benzene	0.66403	0.74796	0.74796	0.010	12.64074	30.00000	Aver	
	82 1,2,4-Trimethylbenzene	0.59403	0.68375	0.68375	0.010	15.10319	30.00000	Aver	
	83 1,3-Dichlorobenzene	10.00000	10.46569	0.44179	0.010	4.65690	30.00000	Line	
	84 Sec- Butylbenzene	0.83200	0.95789	0.95789	0.010	15.13067	30.00000	Aver	
$	85 1,4-dichlorobenzene-d4 (S)	0.55087	0.62253	0.62253	0.010	13.00930	30.00000	Aver	(M)
	86 Benzyl Chloride	10.00000	10.09163	0.45457	0.010	0.91634	30.00000	Quad	

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airB.i\030517.b\06402.D
Report Date: 05-Mar-2017 10:00

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airB.i Injection Date: 05-MAR-2017 09:36
Lab File ID: 06402.D Init. Cal. Date(s): 02-MAR-2017 02-MAR-2017
Analysis Type: AIR Init. Cal. Times: 11:19 14:08
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airB.i\030517.b\TO15_061-17.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
87 1,4-Dichlorobenzene	0.38915	0.43815	0.43815	0.010	12.59229	30.00000	Aver	
88 p-Isopropyltoluene	10.00000	10.32826	0.82040	0.010	3.28262	30.00000	Line	
89 1,2,3-Trimethylbenzene	0.58648	0.66671	0.66671	0.010	13.68067	30.00000	Aver	
90 1,2-Dichlorobenzene	10.00000	10.01620	0.41117	0.010	0.16198	30.00000	Quad	
91 N-Butylbenzene	10.00000	10.52355	0.64165	0.010	5.23555	30.00000	Line	
92 1,2-Dibromo-3-Chloropropane	10.00000	10.30687	0.16428	0.010	3.06865	30.00000	Line	
93 1,2,4-Trichlorobenzene	10.00000	9.99354	0.16917	0.010	-0.06461	30.00000	Quad	
94 Naphthalene	10.00000	9.63840	0.38873	0.010	-3.61601	30.00000	Line	
95 Hexachlorobutadiene	0.17353	0.18326	0.18326	0.010	5.61095	30.00000	Aver	

QC Flag Legend

M - Compound response manually integrated.

Average %D / Drift Results.

Calculated Average %D/Drift = 5.60064
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

VOA Calibration Calculations:

Initial Calibration 4/2/2017
Instrument 10airB

Chloromethane

Analyte Concentration	Analyte Response	Internal Standard Response	Internal Standard Amount	RRF	Reported RRF
0.1	1673	1406108	10	0.11898	0.11898
0.2	3263	1283793	10	0.12708	0.12708
0.5	7549	1396320	10	0.10813	0.10813
1	15341	1428064	10	0.10743	0.10743
10	162140	1414114	10	0.11466	0.11466
20	318845	1443091	10	0.11047	0.11047
30	464037	1316191	10	0.11752	0.11752
			Average	0.1149	0.1149
			Standard Deviation	0.0070	
			RSD	0.0609	
			%RSD	6.08607	6.08607

Internal standard for chloromethane is 1,4-diflourobenzene

Continuing Calibration 03/04/2017@ 6:56
Instrument 10airB

Chloromethane

Analyte Concentration	Analyte Response	Internal Standard Response	Internal Standard Amount	RRF	%D	Reported RRF	Reported %D
10	161953	1504620	10	0.10764	-6.3210233	0.10764	-6.31741

LMC - GREAT NECK
SDG 10379458

SAMPLE IDENTIFICATION	SS-C1_20170215		
COMPOUND	TRICHLOROETHENE	MW=	131.388
		GAS CONSTANT =	24.04
COMPOUND AREA	156895		
INTERNAL STANDARD AMOUNT (ppbv)	10		
CALIBRATION VOLUME (ppbv)	200		
DILUTION FACTOR	1.92		
INTERNAL STANDARD AREA	1214830		
AVERAGE RRF	0.16802		
SAMPLE VOLUME (ppbv)	200		

14.8	ppbv
81	µg/m³

APPENDIX E—LA FITNESS PAIRED INDOOR AIR AND SUBSLAB SAMPLE COLLECTION LOGS

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	(Ambient)
Location:	AA-20170815 LA Fitness			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	(Ambient)
Depth (if applicable)		(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	AA-20170215			
Sampler Name:	Andrew Kelly			

LEAK CHECK (circle) YES (NO)

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2156	1073	2/15/17	0847	-26"	2/15/17	1549	-6"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): MiniRae 2000 Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	Can Pressure
Sampling Start	0847	0.0	46.9°	29.91"	
	1215	0.0	49.5°	24.91"	-18
	1420	0.0	56.10	24.74	-11
Sampling End	1549	0.0	56.50	24.71	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	IPark	LA Fitness	LA Fitness	Ambient
Location:	IA-12			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient
Depth (if applicable)		(feet)		
Canister Volume (circle)	6 - Liter	1 - Liter		
Sample ID:	IA-12_20170205			
Sampler Name:	Jon Rusk			

LEAK CHECK (circle) YES NO

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1083	FC0060	2/15/16	1004	-30	2/15/17	1621	-10"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): KESTREL 4500 / MINIRAE 2000

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1004	0.0	67.5	24.87
	1213	0.1	71.0	24.80 -25
	1415	0.0	66.3	24.74 -17
Sampling End	1621	0.0	70.9	24.70

CAN PRESSURE

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness - C1			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	(Indoor)	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	IA-C1-20170215			
Sampler Name:	Danielle Kearsley			

LEAK CHECK (circle) YES NO

He Instrument: _____ **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2324	2324	2/15/17	1017	-28"	2/15/17	1617	-10"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): PID MiniRae 2000 Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	Can Pressure
Sampling Start	0957	0.1	78.8	24.87"	
	1211	0.3	~~76.3~~ 71.3	24.81	23
	1413 ~~1411~~	~~0.3~~ 0.0	72.6	24.~~86~~ 74	~~23~~ 16
Sampling End	1617	0.0	77.7	24.7	

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	IPark	LA Fitness	LA Fitness	Ambient
Location:	LA. Fitness C1			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	(Sub-Slab)	Indoor	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	SS-C1-20170215			
Sampler Name:	Danielle Kearsley			

LEAK CHECK (circle) (YES) NO

He Instrument: MGD-2002 Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
0950	0%	67.2	(YES) / NO	0%	(YES) NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2812	0363	~~2/15/17~~	0957	30"	2/15/17	1603	-10"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Minirae 2000 Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0957	0.1	78.6	24.87
	1211	0.3	71.3	24.80 -25
	1413	0.0	70.6	24.80 -16
Sampling End	1603	0.0	~~79.7~~ 79.70	24.70"

Can Pressure

OBSERVATIONS/NOTES

0954. Start purge 150 ml/min
0956 Stop purge
- LEAK TEST CONDUCTED
- HAIRLINE CRACKS IN CEMENT AROUND SAMPLE PORT
- SAMPLE PORT OK

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	~~SS~~ LA Fitness - C1			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	6 - Liter	1 - Liter		
Sample ID:	[redacted]	SS-C1-20170215-DUP		
Sampler Name:	Danielle Kearney			

LEAK CHECK (circle) **YES** **NO**

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
0842	1570	~~2/15/17~~	0957	-27"	2/15/17	1603	-9"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s):

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	Can Pressure
Sampling Start	0957	0.1	78.8	24.87	
	1211	0.3	71.3	24.80	-20
	1413	0.0	~~72.6~~	~~24.88~~	-14
Sampling End	1603	0.0	79.7	24.70	

OBSERVATIONS/NOTES

0954 - Start purge 150 ml/min
0956 - Stop purge

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness C20			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	(Sub-Slab)	Indoor	Ambient
Depth (if applicable)	———	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	SS-C20-20170215			
Sampler Name:	Danielle Kearsley			

LEAK CHECK (circle) YES NO

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1684	1083	2/15/17	1011	-30"	2/15/17	1638	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): PID MiniRae 3000 Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1011	0.0	76.4	24.87
	1206	0.0	71.0	24.80 -23
	~~1409~~	0.0	72.6	24.~~94~~ -17
Sampling End	1638	0.0	73.1	24.70

Can Pressure

OBSERVATIONS/NOTES

1009 - Start purge 150 ml/min
1011 - Stop purge

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	IPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness C20			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	(Indoor)	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	IA-C20-20170215			
Sampler Name:	Danielle Earsley			

LEAK CHECK (circle) **YES** **NO**

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2146	1014	2/15/17	1025	-29"	2/15/17	1635	-9"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): Mini Rae 2000 Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1012	0.0	~~74.9~~	~~24.89~~
	1206	0.0	71.0	24.80
	1408	0.0	72.6	~~24.74~~
Sampling End	1635	0.0	73.1	24.70

Can Pressure
-25
-19

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness C20			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	(Indoor)	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	IA-C20-20170215-DUP			
Sampler Name:	Danielle Kenisler)			

LEAK CHECK (circle) **YES** **NO**

He Instrument: _____ **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2365	0067	2/15/17	1027	-27"	2/15/17	1635	-9"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): PID MiniRae 2000 Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1012	0.0	76.4°	24.87"
	1206	0.0	71.0	24.80
	1409	0.0	72.6	24.84
Sampling End	1635	0.0	73.1	24.70

Can Pressure
-24
~~-9~~ -17

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness D7			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	(Sub-Slab)	Indoor	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	6 - Liter	1 - Liter		
Sample ID:	SS-D7-20170215			
Sampler Name:	Danielle Kearsley			

LEAK CHECK (circle) **YES** **NO**

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2292	0408	2/15/17	1006	7-30"	2/15/17	1618	-10"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): PID Mini Rae 2000 Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1004	0.0	76.4°	24.87"
	1208	0.3	71.0	24.80
	1411	0.0	72.6	24.74
Sampling End	1619	0.0	75.0	24.70

Can Pressure
-25
-18

OBSERVATIONS/NOTES

purge @ 1003 - 1005

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness D7			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	(Indoor)	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	IA-D7-20170215			
Sampler Name:	Danielle Kearsley			

LEAK CHECK (circle) **YES** **NO**

He Instrument: _____ **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		**START**			**END**		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2328	1032	2/15/17	1016	-27"	2/15/17	1606	-9"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): PID MiniRae 2000 Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1005	0.0	76.4°	24.87"
	1209	0.3	71.0	24.80 -21
	1411	0.0	72.6	24.74 -15
Sampling End	1606	0.0	79.6	24.70

Can Pressure

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	IPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness 013			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	(Indoor)	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	IA-013-20170215			
Sampler Name:	Danielle Kearsley			

LEAK CHECK (circle) **YES** **NO**

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
1201	0213	2/15/17	1029	-30"	2/15/17	1706	-9"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): MiniRae 2000 Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1020	0.1	69.5	24.9"
	1208	0.2	71.0	24.80
	1410	0.0	72.6	24.74
Sampling End	1706	0.0	77.8	24.70

Can Pressure
-24
-18

OBSERVATIONS/NOTES:

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness D13			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	6 - Liter	1 - Liter		
Sample ID:	SS-D13-20170215			
Sampler Name:	Danielle Kearsky			

LEAK CHECK (circle) YES NO

He Instrument: Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
ZB35	0249	2/15/17	1021	-29"	2/15/17	1537	-10"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): MiniRae 2000 Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	1020	0.1	69.5	24.9"
	1208	0.2	71.0	24.80
	1410	0.0	72.6	24.74
Sampling End	1537	0.0	75.1	24.71

Can Pressure
-23
-16

OBSERVATIONS/NOTES

0914 - Start Air Purge. Clog in SS port. Using peri-pump to blow air into sub slab. Stops around ~ 140 ml/min

1019 - 1021 - purge

John Reilly took out port brushed it, and put back in. Then it was cleaned & Worked.

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness E16			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	(Indoor)	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	IA-E16-20170215			
Sampler Name:	Danielle Yearsley			

LEAK CHECK (circle) (YES) NO

He Instrument: ~~MGD-2002~~ Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
~~0950~~	~~0%~~	~~67.22~~	~~YES / NO~~	~~0~~	~~YES / NO~~
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2345	F0360	2/15/17	1013	-30"	2/15/17	1709	-10

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): MiniRae 2000 Rebtel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)
Sampling Start	0951	0.0	74.8	24.89"
	1217	0.0	71.3	24.80
	1409	0.0	72.6	24.74
Sampling End	1709	0.0	81.4	24.72

Can Pressure
-25
-19

OBSERVATIONS/NOTES

~~[illegible]~~
- LEAK TEST CONDUCT
- ~~HAVE TIME CHECKS TO CONFIRM~~ AMBIENT SAMPLE PORT -

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	IPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness - E16			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	(Sub-Slab)	Indoor	Ambient
Depth (if applicable)	———	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	SS - E16 - 20170215			
Sampler Name:	Danielle Kearsley			

LEAK CHECK (circle) **YES** **NO**

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2383	1104	2/15/17	0951	-26"	2/15/17	1558	-9"

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): PID MiniRae 2000 . . Kestrel 4500

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	Can Pressure
Sampling Start	0951	0.0	74.8	24.08"	
	1217	0.0	71.3	24.80	-20
	1409	0.0	72.6	24.94	-14
Sampling End	1553	0.0	79.4	24.70	

OBSERVATIONS/NOTES

0948 - Start purge @ 150 ml/min
0950 - Stop purge

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	LA Fitness - 618			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	(Indoor)	Ambient
Depth (if applicable)	—	(feet)		
Canister Volume (circle)	(6 - Liter)	1 - Liter		
Sample ID:	IA-618-20170215			
Sampler Name:				

LEAK CHECK (circle) YES NO

He Instrument: **Units:** %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
0740	0324	~~2/15/17~~	0906	-29"	2/15/1	1530	-8

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s):

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	Can Pressure
Sampling Start	0906	0.2	70.3	24.9"	
	1205	0.0	~71.0	24.80	-19"
	1406	0.0	72.6	24.74	-13"
Sampling End	1530	0.0	71.2	24.72	-8

OBSERVATIONS/NOTES

TABLE 2
Sample Collection Log
To Be Completed for Each Sample

Lockheed Martin - Former Unisys Facility, 1111 Marcus Avenue, Lake Success, New York

Building (Circle)	iPark	LA Fitness	LA Fitness	Ambient
Location:	LA-Fitness GB			
Date:	2/15/17			
Sample Type (Circle)	SS-Nested	Sub-Slab	Indoor	Ambient
Depth (if applicable)	——→	(feet)		
Canister Volume (circle)	6 - Liter	1 - Liter		
Sample ID:	SS-GB-20170215			
Sampler Name:	Daniel Kearsley			

LEAK CHECK (circle) YES NO

He Instrument: _____ Units: %

Time	Ambient He	He in Shroud	> 60%	He in Tubing	< 10%
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO
			YES / NO		YES / NO

CANISTER INFORMATION		START			END		
Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (" Hg)	End Date	End Time	Final Vacuum (" Hg)
2045	FC0312	2/15/17	0901	-28"	2/15/17	1531	-9

AMBIENT READINGS (To be taken at START, END and PERIODIC)

Instrument(s): _____

Check	Time	PID (ppm)	Temp (°F)	Pressure (" Hg)	Can Pressure
Sampling Start	0901	0.1	67.8°	24.91"	
	1205	0.0	71.0	24.8	-19"
	1407	0.0	72.6	24.79	-13"
Sampling End	1531	0.0	71.2	24.72	

OBSERVATIONS/NOTES

0858 - Air purge start
0900 - Air purge Stop

Nested Soil Vapor Point Field Log
Lockheed Martin Corporation
Former Unisys Facility
1111 Marcus Avenue, Lake Success, New York

TETRA TECH

Sample ID	Canister Number	Flow Controller Number	Start Date	Start Time	Initial Vacuum (in Hg)	Start Temperature	Start Pressure	End Time	Final Vacuum (in Hg)	End Temperature	End Pressure
SS-C1_20170215	2812	FC0363	02/15/17	0957	-30	78.8	-24.87	1603	-10	79.7	24.7
SS-C20_20170215	2684	FC1083	02/15/17	1011	-30	76.4	24.87	1638	-9	73.1	24.7
SS-E16_20170215	2383	FC1104	02/15/17	0951	-26	74.8	24.87	1558	-9	79.4	24.7
SS-D7_20170215	2292	FC0408	02/15/17	1006	-30	76.4	24.87	1618	-10	75.0	24.7
SS-D13_20170215	2835	FC0249	02/15/17	1021	-29	69.5	24.9	1537	-10	75.1	24.71
SS-G18_20170215	2045	FC0312	02/15/17	0901	-28	67.8	24.91	1531	-9	71.2	24.72
IA-C1_20170215	2324	FC1063	02/15/17	1019	-28	78.8	-24.87	1617	-10	77.7	24.7
IA-C20_20170215	2146	FC1014	02/15/17	1025	-29	76.4	24.87	1635	-9	73.1	24.7
IA-E16_20170215	2346	FC0360	02/15/17	1013	-30	74.8	24.88	1709	-10	81.4	24.72
IA-D7_20170215	2328	FC1032	02/15/17	1016	-27	76.4	24.87	1606	-9	79.6	24.7
IA-D13_20170215	1201	FC0213	02/15/17	1029	-30	69.5	24.9	1706	-9	77.8	24.7
IA-G18_20170215	0940	FC0324	02/15/17	0904	-29	70.3	24.9	1530	-8	71.2	24.72
IA-12_20170215	1086	FC0060	02/15/17	1004	-30	67.5	24.87	1621	-10	70.9	24.7
AA_20170215	2156	FC1073	02/15/17	0847	-26	46.9	24.91	1549	-6		24.7
SS-C1_20170215DUP	0842	FC0370	02/15/17	0957	-27	78.8	24.87	1603	-9	75.7	24.7
IA-C20_20170215DUP	2365	FC0067	02/15/17	1027	-27	76.4	24.87	1638	-9	73.1	24.7

APPENDIX F—TENANT LETTERS TO LA FITNESS AND WINTHROP MANEMENT

Lockheed Martin Corporation
6801 Rockledge Drive
MP CCT 246
Bethesda, MD 20817

May 31st, 2017

Ms. Phyllis MacKnight
Lease Administrator LA Fitness
C\O Winthrop Management
1111 Marcus Avenue
Lake Success, NY 11042

RE: Vapor Intrusion (VI) Sampling Test Results

Dear Ms. MacKnight:

Thank you for your cooperation in allowing our contractor, Tetra Tech to collect indoor air and sub-slab soil vapor samples from your leasehold at 1111 Marcus Avenue (Unisys Site No.130045). Indoor air (IA) and Sub-slab (SS) vapor samples were collected from the LA Fitness building on February 15, 2017 within the heating season. This correspondence presents you with the sampling results.

As you may be aware, the primary chemicals of concern related to historical activities at the former Unisys facility are the solvents trichloroethene (TCE), tetrachloroethene (PCE), cis-1,2-dichloroethene (DCE), and Freon 113, although there were other chemicals used at the site. These chemicals are present in groundwater located more than 100 feet below ground surface and may also be present in soils located under the slab at 1111 Marcus Avenue. Under certain conditions, vapors from contaminated soil and/or contaminated groundwater may move into the indoor air through a process referred to as soil vapor intrusion.

Lockheed Martin, in consultation with the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH), has reviewed the results from your leaseholds per NYSDOH's October 2006 Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. A copy of this guidance is available on NYSDOH's website at http://www.health.state.ny.us/environmental/indoors/vapor_intrusion/.

The February 15th indoor air sample results indicate that indoor air concentrations of TCE and PCE are below the NYSDOH VI Guidance Document indoor air guidelines of 2 micrograms per cubic meter ($\mu g/m^3$) and 30 $\mu g/m^3$, respectively. Although sampling results indicate that TCE was not detected in indoor air, the sample collected from the crawlspace had a concentration of 4 $\mu g/m^3$, which is above the air guidance for TCE. Because the crawlspace is kept sealed and is not accessed, this does not represent a current exposure concern. The sample locations and summary of analytical results are presented in Figure 1. All sample results are summarized and compared to typical indoor air background concentrations and ambient air sample results in Table 1.

Table 1 presents all indoor air, sub-slab, and ambient air sampling results from the February 15th sampling event. The indoor air quality of your leasehold is comparable to that of buildings not affected by environmental contamination. The volatile organic chemicals detected in indoor air are at levels usually found in indoor air in an urban area and do not represent a concern. The enclosed fact sheet from NYSDOH provides some information on reducing exposures to volatile chemicals associated with household products.

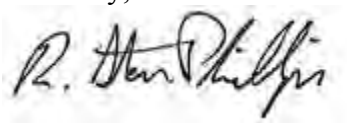
Volatile organic compounds including chloroform, PCE, toluene, TCE and Freon 113 were detected in selected sub-slab soil vapor samples underneath portions of the LA Fitness building. PCE was detected at concentration range of 8.9 µg/m^3 to 651 µg/m^3, and TCE concentrations ranged from 2.3 µg/m^3 to 90.9 µg/m^3 in sub-slab soil vapor samples. Figure 1 shows the location of all sub-slab points and summarizes the analytical results for each sample collected.

In accordance with the NYSDOH VI guidance, monitoring is required at five sample locations (out of a total of eleven). These sample points are C1, C20, D7, D13, and E16. Annual sampling consisting of paired sub-slab and indoor will be conducted again during the next heating season. An ambient air and crawlspace air sample (IA-12) will also be collected during the monitoring event.

If you need additional details, feel free to contact Ms. Renata Ockerby of the NYSDOH at 1-518-402-7860 (Renata.Ockerby@health.ny.gov) or Mr. Girish Desai of the NYSDEC at 631-444-0243 (girish.desai@dec.ny.gov). If there are questions or need clarification on these results or the on-going environmental investigations and cleanup at the former Unisys Facility, please contact me at 1-817-495-0251 or via e-mail at robert.s.phillips@lmco.com.

Again, thank you for allowing us access to your leasehold to evaluate the air quality. We appreciate your assistance in our environmental investigation.

Sincerely,



R. Stan Phillips

cc: Renata Ockerby/NYSDOH
Girish Desai/NYSDEC
Dallas Mellott/Tetra Tech
Peter Rich/Tetra Tech

Table 1
Analytical Results
LA Fitness Annual Indoor Air Sub-Slab VI Monitoring

Client ID		AA_20170215		IA-12_20170215		IA-C1_20170215		SS-C1_20170215		SS-C1_20170215DUP		IA-C20_20170215		IA-C20_20170215DUP		SS-C20_20170215		IA-D13_20170215		SS-D13_20170215		IA-D7_20170215		SS-D7_20170215		IA-E16_20170215		SS-E16_20170215		IA-G18_20170215		SS-G18_20170215	
Lab Sample ID	NYSDOH	10379458016		10379458013		10379458007		10379458001		10379458015		10379458008		10379458014		10379458002		10379458005		10379458011		10379458010		10379458004		10379458009		10379458003		10379458012		10379458006	
Sampling Date	Indoor Air	02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017	
Matrix	Guidance Value	Air		Air		Air		Air		Air		Air		Air		Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate Of										SS-C1_20170215				IA-C20_20170215																			
OV (UG/M3)		Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	-	ND	1.8	ND	2	ND	2.2	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2	ND	2.1	ND	2.4	ND	2.2	7.2	2.1	ND	2.2	ND	2.1	ND	2	ND	2
1,1,2,2-TETRACHLOROETHANE	-	ND	1.1	ND	1.3	ND	1.4	ND	1.3	ND	1.3	ND	1.3	ND	1.3	ND	1.3	ND	1.3	ND	1.5	ND	1.4	ND	1.3	ND	1.4	ND	1.3	ND	1.3	ND	1.3
1,1,2-TRICHLOROETHANE	-	ND	0.89	ND	1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1	ND	1.1	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1	ND	1
1,1,2-TRICHLOROTRIFLUOROETHANE	-	ND	2.6	ND	2.9	ND	3.2	ND	3.1	ND	3.1	ND	3.1	ND	3.1	**109**	2.9	ND	3.1	**4.9**	3.4	ND	3.2	**9.3**	3.1	ND	3.2	**3.9**	3.1	ND	2.9	**23.3**	2.9
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	-	ND	5.1	ND	5.8	ND	6.4	ND	6.1	ND	6.1	ND	6.1	ND	6.1	ND	5.8	ND	6.1	ND	6.7	ND	6.4	ND	6.4	ND	6.4	ND	6.1	ND	5.8	ND	5.8
1,1-DICHLOROETHANE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
1,1-DICHLOROETHENE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
1,2,4-TRICHLOROBENZENE	-	ND	6.1	ND	6.9	ND	7.6	ND	7.2	**10.5**	7.2	ND	7.2	ND	7.2	ND	6.9	ND	7.2	ND	8	ND	7.6	ND	7.2	ND	7.6	ND	7.2	ND	6.9	ND	6.9
1,2,4-TRIMETHYLBENZENE	-	ND	1.6	ND	1.8	**1.6 J**	2	ND	1.9	ND	1.9	**0.98 J**	1.9	ND	1.9	**1.1 J**	1.8	ND	1.9	**1.4 J**	2.1	**1.4 J**	2	**4.4**	1.9	ND	2	**1.2 J**	1.9	ND	1.8	**2.3**	1.8
1,2-DIBROMO-3-CHLOROPROPANE	-	ND	7.9	ND	9	ND	9.9	ND	9.4	ND	9.4	ND	9.4	ND	9.4	ND	9	ND	9.4	ND	10.4	ND	9.9	ND	9.4	ND	9.9	ND	9.4	ND	9	ND	9
1,2-DIBROMOETHANE	-	ND	2.5	ND	2.9	ND	3.1	ND	3	ND	3	ND	3	ND	3	ND	2.9	ND	3	ND	3.3	ND	3.1	ND	3	ND	3.1	ND	3	ND	2.9	ND	2.9
1,2-DICHLOROBENZENE	-	ND	2	ND	2.2	ND	2.5	ND	2.3	ND	2.3	ND	2.3	ND	2.3	ND	2.2	ND	2.3	ND	2.6	ND	2.5	ND	2.3	ND	2.5	ND	2.3	ND	2.2	ND	2.2
1,2-DICHLOROETHANE	-	ND	0.66	ND	0.75	ND	0.82	ND	0.79	ND	0.79	ND	0.79	ND	0.79	ND	0.75	ND	0.79	ND	0.87	ND	0.82	ND	0.79	ND	0.82	ND	0.79	ND	0.75	ND	0.75
1,2-DICHLOROPROPANE	-	ND	1.5	ND	1.7	ND	1.9	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.8	ND	2	ND	1.9	ND	1.8	ND	1.9	ND	1.8	ND	1.7	ND	1.7
1,2-DICHLOROTETRAFLUOROETHANE	-	ND	2.3	ND	2.6	ND	2.9	ND	2.7	ND	2.7	ND	2.7	ND	2.7	ND	2.6	ND	2.7	ND	3	ND	2.9	ND	2.7	ND	2.9	ND	2.7	ND	2.6	ND	2.6
1,3,5-TRIMETHYLBENZENE	-	ND	1.6	ND	1.8	ND	2	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.8	ND	1.9	ND	2.1	ND	2	**1.3 J**	1.9	ND	2	ND	1.9	ND	1.8	ND	1.8
1,3-BUTADIENE	-	ND	0.72	ND	0.82	ND	0.9	ND	0.86	ND	0.86	ND	0.86	ND	0.86	ND	0.82	ND	0.86	ND	0.95	ND	0.9	ND	0.86	ND	0.9	ND	0.86	ND	0.82	ND	0.82
1,3-DICHLOROBENZENE	-	ND	2	ND	2.2	ND	2.5	ND	2.3	ND	2.3	ND	2.3	ND	2.3	ND	2.2	ND	2.3	ND	2.6	ND	2.5	ND	2.3	ND	2.5	ND	2.3	ND	2.2	ND	2.2
1,4-DICHLOROBENZENE	-	ND	2	ND	2.2	ND	2.5	ND	2.3	ND	2.3	ND	2.3	ND	2.3	ND	2.2	ND	2.3	ND	2.6	ND	2.5	ND	2.3	ND	2.5	ND	2.3	ND	2.2	ND	2.2
1,4-DIOXANE	-	ND	5.9	ND	6.7	ND	7.4	ND	7	ND	7	ND	7	ND	7	ND	6.7	ND	7	ND	7.8	ND	7.4	ND	7	ND	7.4	ND	7	ND	6.7	ND	6.7
1-ETHYL-4-METHYL BENZENE	-	**1 J**	1.6	ND	1.8	ND	2	ND	1.9	ND	1.9	**1.2 J**	1.9	**1.2 J**	1.9	ND	1.8	ND	1.9	**1.3 J**	2.1	**1.3 J**	2	**1.7 J**	1.9	ND	2	ND	1.9	**1.2 J**	1.8	**1.3 J**	1.8
2-BUTANONE	-	ND	4.8	ND	5.5	**4.9 J**	6	**9.2**	5.8	ND	5.8	**2.6 J**	5.8	**3.6 J**	5.8	**3.6 J**	5.5	**3.5 J**	5.8	ND	6.4	**5.7 J**	6	**4.5 J**	5.8	**6 J**	6	**3.6 J**	5.8	ND	5.5	**4.3 J**	5.5
2-HEXANONE	-	ND	6.7	ND	7.6	ND	8.4	**1.7 J**	8	ND	8	ND	8	ND	8	**0.83 J**	7.6	ND	8	ND	8.8	ND	8.4	**1.2 J**	8	**1 J**	8.4	ND	8	ND	7.6	**0.84 J**	7.6
3-CHLOROPROPENE	-	ND	2.6	ND	2.9	ND	3.2	ND	3.1	ND	3.1	ND	3.1	ND	3.1	ND	2.9	ND	3.1	ND	3.4	ND	3.2	ND	3.1	ND	3.2	ND	3.1	ND	2.9	ND	2.9
4-METHYL-2-PENTANONE	-	ND	6.7	ND	7.6	ND	8.4	ND	8	ND	8	ND	8	ND	8	ND	7.6	ND	8	ND	8.8	ND	8.4	ND	8	ND	8.4	ND	8	ND	7.6	**0.93 J**	7.6
ACETONE	-	**10.2**	3.9	**13.1**	4.4	**48.7**	4.9	**24 J**	4.6	**7.9 J**	4.6	**32.4**	4.6	**33.5**	4.6	**15**	4.4	**38.7**	4.6	**48.5**	5.1	**52.9**	4.9	**22.7**	4.6	**42.3**	4.9	**16.5**	4.6	**32**	4.4	**28.1**	4.4
BENZENE	-	**1.5**	0.52	**0.53 J**	0.59	**1.6**	0.65	ND	0.62	ND	0.62	**1.5**	0.62	**1.5**	0.62	ND	0.59	**1.5**	0.62	**6.8**	0.69	**1.5**	0.65	**0.41 J**	0.62	**1.7**	0.65	**1**	0.62	**1.5**	0.59	**0.96**	0.59
BROMODICHLOROMETHANE	-	ND	2.2	**2.1 J**	2.5	ND	2.7	ND	2.6	ND	2.6	ND	2.6	ND	2.6	ND	2.5	ND	2.6	ND	2.9	ND	2.7	ND	2.6	ND	2.7	ND	2.6	ND	2.5	ND	2.5
BROMOFORM	-	ND	3.4	ND	3.8	ND	4.2	ND	4	ND	4	ND	4	ND	4	ND	3.8	ND	4	ND	4.5	ND	4.2	ND	4	ND	4.2	ND	4	ND	3.8	ND	3.8
BROMOMETHANE	-	ND	1.3	ND	1.4	ND	1.6	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.4	ND	1.5	ND	1.7	ND	1.6	ND	1.5	ND	1.6	ND	1.5	ND	1.4	ND	1.4
CARBON DISULFIDE	-	ND	1	ND	1.2	ND	1.3	ND	1.2	ND	1.2	ND	1.2	ND	1.2	0.66 J	1.2	ND	1.2	ND	1.3	ND	1.3	**1.1 J**	1.2	ND	1.3	**0.91 J**	1.2	ND	1.2	**0.71 J**	1.2
CARBON TETRACHLORIDE	-	ND	1	**0.68 J**	1.2	ND	1.3	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.4	ND	1.3	ND	1.2	ND	1.3	ND	1.2	ND	1.2	**1.3**	1.2
CHLOROBENZENE	-	ND	1.5	ND	1.7	ND	1.9	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.8	ND	2	ND	1.9	ND	1.8	ND	1.9	ND	1.8	ND	1.7	ND	1.7
CHLORODIBROMOMETHANE	-	ND	2.8	ND	3.2	ND	3.5	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.2	ND	3.3	ND	3.7	ND	3.5	ND	3.3	ND	3.5	ND	3.3	ND	3.2	ND	3.2
CHLORODIFLUOROMETHANE	-	ND	1.2	ND	1.3	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.3	ND	1.4	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.3	**0.86 J**	1.3
CHLOROETHANE	-	ND	0.87	ND	0.99	ND	1.1	ND	1	ND	1	ND	1	ND	1	ND	0.99	ND	1	ND	1.1	ND	1.1	ND	1	ND	1.1	ND	1	ND	0.99	ND	0.99
CHLOROFORM	-	ND	0.8	**98.7**	0.91	**3.3**	1	ND	0.95	ND	0.95	**3.9**	0.95	**3.3**	0.95	**0.62 J**	0.91	**3.9**	0.95	**8.1**	1.1	**3.5**	1	**6.6**	0.95	**3.9**	1	**2.3**	0.95	**4.2**	0.91	**39.4**	0.91
CHLOROMETHANE	-	ND	0.68	ND	0.77	**1.2**	0.84	ND	0.81	ND	0.81	**1.1**	0.81	**0.83**	0.81	ND	0.77	**1.2**	0.81	ND	0.89	ND	0.84	**0.71 J**	0.81	**1.2**	0.84	ND	0.81	**1.2**	0.77	ND	0.77
CIS-1,2-DICHLOROETHENE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
CIS-1,3-DICHLOROPROPENE	-	ND	1.5	ND	1.7	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.8	ND	2	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.7
CYCLOHEXANE	-	**0.62 J**	1.1	ND	1.3	ND	1.4	ND	1.3	ND	1.3	**0.71 J**	1.3	ND	1.3	ND	1.3	ND	1.3	**0.82 J**	1.5	**0.75 J**	1.4	ND	1.3	**1.1 J**	1.4	**1 J**	1.3	**0.72 J**	1.3	ND	1.3
DICHLORODIFLUOROMETHANE	-	**2.2**	1.6	ND	1.8	**2.1**	2	**2.2**	1.9	**2.1**	1.9	**2**	1.9	**2.1**	1.9	**2**	1.8	**2**	1.9	**2.1 J**	2.1	**2.1**	2	**2.1**	1.9	**2.2**	2	**2**	1.9	**2.1**	1.8	**2.4**	1.8
ETHYLBENZENE	-	ND	1.4	ND	1.6	ND	1.8	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.6	ND	1.7	ND	1.9	ND	1.8	**0.91 J**	1.7	ND	1.8	ND	1.7	ND	1.6	**0.87 J**	1.6
HEXACHLOROBUTADIENE	-	ND	3.5	ND	4	ND	4.4	ND	4.2	**13.8 J**	4.2	ND	4.2	ND	4.2	ND	4	ND	4.2	ND	4.6	ND	4.4	ND	4.2	ND	4.4	ND	4.2	ND	4	ND	4
HEXANE	-	**1.5**	1.2	**1.1 J**	1.3	**2**	1.4	**3.2**	1.4	ND	1.4	**1.4**	1.4	**1.7**	1.4	ND	1.3	**1.7**	1.4	**1.4 J**	1.5	ND	1.4	ND	1.4	**2.4**	1.4	**1.7**	1.4	**1.4**	1.3	**13**	1.3
ISOPROPANOL	-	**2.5 J**	4	**2.6 J**	4.6	**86.4**	5	**5.8**	4.8	**4.7 J**	4.8	**93.6**	4.8	**89.6**	4.8	**2.3 J**	4.6	**96.4**	4.8	**66.3**	5.3	**96.7**	5	**9.8**	4.8	**102**	5	**17.9**	4.8	**107**	4.6	**40.9**	4.6
ISOPROPYLBENZENE	-	ND	4	ND	4.6	ND	5	ND	4.8	ND	4.8	ND	4.8	ND	4.8	ND	4.6	ND	4.8	ND	5.3	ND	5	ND	4.8	ND	5	ND	4.8	ND	4.6	ND	4.6
M+P-XYLENES	-	**1.8 J**	2.8	ND	3.2	**2.6 J**	3.6	ND	3.4	ND	3.4	**2 J**	3.4	**2.1 J**	3.4	ND	3.2	**2 J**	3.4	**3.3 J**	3.8	**2.7 J**	3.6	**3.5**	3.4	**2.3 J**	3.6	**2.3 J**	3.4	**2.2 J**	3.2	**3.3**	3.2
METHYL ACETATE	-	ND	2.5	ND	2.8	ND	3.1	ND	3	ND	3	ND	3	ND	3	ND	2.8	ND	3	ND	3.3	ND	3.1	ND	3	ND	3.1	ND	3	ND	2.8	ND	2.8
METHYL CYCLOHEXANE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
METHYL TERT-BUTYL ETHER	-	ND	5.9	ND	6.7	ND	7.4	ND	7	ND	7	ND	7	ND	7	ND	6.7	ND	7	ND	7.8	ND	7.4	ND	7	ND	7.4	ND	7	ND	6.7	ND	6.7
METHYLENE CHLORIDE	60	**4.6 J**	5.7	**5.2 J**	6.5	**5.3 J**	7.1	**20.6 J**	6.8	ND	6.8	**3.3 J**	6.8	**5.2 J**	6.8	**4.7 J**	6.5	**4.6 J**	6.8	**4 J**	7.5	**7.1 J**	7.1	**4.9 J**	6.8	**5.9 J**	7.1	**7.9 J**	6.8	**4.5 J**	6.5	**81.3 J**	6.5
O-XYLENE	-	ND	1.4	ND	1.6	ND	1.8	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.6	ND	1.7	**1.5 J**	1.9	**0.9 J**	1.8	**1.3 J**	1.7	ND	1.8	**1.1 J**	1.7	ND	1.6	**1.5 J**	1.6
PENTAFLUOROETHYL CHLORIDE	-	ND	5.2	ND	5.9	ND	6.5	ND	6.2	ND	6.2	ND	6.2	ND	6.2	ND	5.9	ND	6.2	ND	6.8	ND	6.5	ND	6.2	ND	6.5	ND	6.2	ND	5.9	ND	5.9
STYRENE	-	ND	1.4	ND	1.6	ND	1.7	ND	1.7	ND	1.7	**0.84 J**	1.7	**0.85 J**	1.7	ND	1.6	ND	1.7	**1 J**	1.8	**0.93 J**	1.7	**0.83 J**	1.7	**0.92 J**	1.7	**0.88 J**	1.7	**0.81 J**	1.6	**1 J**	1.6
TETRACHLOROETHENE	30	**1.2**	1.1	**8.4**	1.3	**1.3 J**	1.4	**8.9**	1.3	**9**	1.3	**1.3 J**	1.3	**1.2 J**	1.3	**643**	25.2	**1.3 J**	1.3	**49.3**	1.5	**1.2 J**	1.4	**14.8**	1.3	**1.3 J**	1.4	**644**	35.5	**1.1 J**	1.3	**22.5**	1.3
TOLUENE	-	**2.8**	1.2	**1.6**	1.4	**3.2**	1.5	**1.5 J**	1.5	**0.83 J**	1.5	**3.2**	1.5	**3**	1.5	ND	1.4	**3.1**	1.5	**6.5**	1.6	**3.3**	1.5	**2.5**	1.5	**3.5**	1.5	**3**	1.5	**3.3**	1.4	**4.1**	1.4
TRANS-1,2-DICHLOROETHENE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.6	**3.1**	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
TRANS-1,3-DICHLOROPROPENE	-	ND	1.5	ND	1.7	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.8	ND	2	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.7
TRICHLOROETHENE	2	ND	0.89	**4**	1	ND	1.1	**80.6**	1.1	80.1	1.1	ND	1.1	ND	1.1	**2.3**	1	ND	1.1	**5**	1.2	ND	1.1	**90.9**	1.1	ND	1.1	**3.4**	1.1	ND	1	**2.7**	1
TRICHLOROFLUOROMETHANE	-	**1.3 J**	1.8	**1.3 J**	2.1	**1.3 J**	2.3	**1.3 J**	2.2	1.3 J	2.2	1.1 J	2.2	**1.1 J**	2.2	**2 J**	2.1	**1.2 J**	2.2	**2.5**	2.4	**1.2 J**	2.3	**3.6**	2.2	**1.2 J**	2.3	**1.5 J**	2.2	**1.2 J**	2.1	**3.2**	2.1
VINYL CHLORIDE	-	ND	0.42	ND	0.48	ND	0.52	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.48	ND	0.5	ND	0.55	ND	0.52	ND	0.5	ND	0.52	ND	0.5	ND	0.48	ND	0.48

MRL - Minimum reporting limit
ND - Not detected
J - Value detected below the minimum detection limit
Bold values indicate compound was detected

Highlighted values indicate that compound was detected above NYSDOH air guidance value

SS-C1					
	Mar-15	Mar-16	Mar-16 Dup	Feb-17	Feb-17 Dup
PCE	3.2	11.4	12	8.9	9.0
TCE	ND	111	107	80.6	80.1

IA-C1			
	Mar-15	Mar-16	Feb-17
PCE	ND	ND	1.3 J
TCE	ND	ND	ND

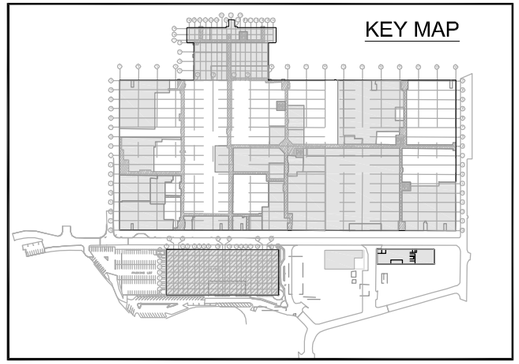
SS-D7					
	Mar-15	Mar-15 Dup	Jul-15	Mar-16	Feb-17
PCE	8	28	11	19.9	14.8
TCE	36	130	21	91.1	90.9

IA-D7				
	Mar-15	Jul-15	Mar-16	Feb-17
PCE	ND	ND	ND	1.2 J
TCE	ND	ND	ND	ND

SS-D13		
	Mar-16	Feb-17
PCE	242	49.3
TCE	6.5	5.0

IA-D13			
	Mar-16	Mar-16 Dup	Feb-17
PCE	ND	ND	1.3 J
TCE	ND	ND	ND

KEY MAP



SS-C20					
	Mar-15	Mar-15 Dup	Jul-15	Mar-16	Feb-17
PCE	320	790	530	786	643
TCE	ND	2.6	1.6	3.4	2.3

IA-C20					
	Mar-15	Jul-15	Mar-16	Feb-17	Feb-17 Dup
PCE	ND	ND	4.2	1.3 J	1.2 J
TCE	ND	ND	1.3	ND	ND

SS-G18		
	Mar-16	Feb-17
PCE	105	22.5
TCE	5.7	2.7

IA-G18		
	Mar-16	Feb-17
PCE	ND	1.1 J
TCE	ND	ND

IA-12/CRAWLSPACE									
	Mar-07	Dec-07	Jan-08	Mar-08	Feb-15	Mar-15	Jul-15	Mar-16	Feb-17
PCE	18	64	ND	81	7.8	22	NA	8.6	8.4
TCE	9.2	14	ND	15	2.9	9.3	NA	4.6	4.0

AA-20170215	
	Feb-17
PCE	1.2
TCE	ND

SS-E16				
	Mar-15	Jul-15	Mar-16	Feb-17
PCE	1200	47	306	651
TCE	2.3	0.22	0.96	3.4

IA-E16				
	Mar-15	Jul-15	Mar-16	Feb-17
PCE	ND	ND	ND	1.3 J
TCE	0.99	ND	ND	ND

LA FITNESS

BASEMENT AREA

SS-C1/ IA-C1

SSLAC8/ IA-LAC8

SS-14/ IA-14

SS-D13 IA-D13

SS-C20/ IA-C20

SS-D7/ IA-D7

SS-E16 IA-E16

SS-E21.5 IA-E21.5

IA-E6

SS-E10/ IA-E10

IA-E15

IA-F11

SS-F13 IA-F13

SS-G5/ IA-G5

SS-G18 IA-G18

IA-H2

IA-12

IA-13

SS-H21/ IA-H21

AA-20170215

LEGEND

- IA-13 — INDOOR AIR SAMPLE LOCATION
- SS-14/ IA-14 — HISTORIC SUB-SLAB SOIL VAPOR/INDOOR AIR SAMPLE LOCATIONS
- SS-C1/ IA-14 — PAIRED SUB-SLAB SOIL VAPOR/INDOOR AIR SAMPLE LOCATIONS
- IA-12 — BASEMENT AIR SAMPLE LOCATION
- PASSIVE VENT EXHAUST
- PASSIVE VENT INLET
- AA-20170215 — AMBIENT AIR SAMPLE LOCATION

0 60 120

SCALE IN FEET

NOTES:

1. SUB-SLAB MONITORING POINTS SS-LAC8 AND SS-14 WERE REPLACED BY NEW MONITORING POINTS SS-07 AND SS-C20, RESPECTIVELY DURING 2015.
2. SS-MONITORING POINTS SS-C1, SS-E10, SS-E16, SS-G5 AND SS-H21 WERE INSTALLED IN THE LA FITNESS BUILDING DURING 2015.
3. SS-MONITORING POINTS SS-D13, SS-E21.5, SS-G18 AND SS-F13 WERE INSTALLED IN THE LA FITNESS BUILDING IN FEBRUARY 2016.

TITLE: **2017 VI SAMPLING LOCATIONS - LA FITNESS**
2017 SV MONITORING WORK PLAN

LOCATION: **Former UNISYS Facility**
Lake Success, New York

TETRA TECH

APPROVED	TJ
DRAFTED	CP
PROJECT#	117-0507644
DATE	5-11-17

FIGURE 1

P:\ACAD\0507-644-LOCK\0507644026A.DWG

Volatile Organic Compounds (VOCs) in Commonly Used Products

People spend most of their time indoors – at home, school and work. This makes the quality of the indoor air you breathe important. This fact sheet focuses on certain kinds of chemicals called *volatile organic compounds* or *VOCs* that are found in many products that we commonly use. It is designed to help you think about what VOCs may be present in your indoor air and steps you can take to reduce them.

What are VOCs?

VOCs are chemicals that easily enter the air as gases from some solids or liquids. They are ingredients in many commonly used products and are in the air of just about every indoor setting. The table to the right shows some examples of products that contain VOCs.

How do VOCs get into indoor air?

Products containing VOCs can release these chemicals when they are used and when they are stored. Many times you'll notice an odor when using these products. Product labels often list VOC ingredients and recommend that they should be used in well ventilated areas. *Ventilation* means bringing in fresh, outdoor air to mix with indoor air.

When you use a product containing VOCs indoors, the levels of these chemicals in the air increase, then decrease over time after you stop using them. The amount of time the chemical stays in the air depends on how quickly fresh air enters the room and the amount of the chemical used. Levels of VOCs will decrease faster if you open windows or doors, or use exhaust fans.

Building materials and furnishings, such as new carpets or furniture, slowly release VOCs over time. It may be necessary to ventilate areas with new carpeting or furniture for longer time periods because VOC levels can build up again after the windows are closed. If possible, unroll new carpets or store furniture outside your home (in a shed or detached garage) to minimize odors before bringing them in the home. If that's not possible, open windows, close doors and try to stay out of rooms until odors are reduced.

If VOC containing products are used outdoors near your home, you may want to close windows and nearby vents to prevent chemicals from coming inside.

Products used at home or work can release VOCs into the air when used and stored.

Examples of Household Products	Possible VOC Ingredients
Fuel containers or devices using gasoline, kerosene, fuel oil and products with petroleum distillates: paint thinner, oil-based stains and paint, aerosol or liquid insect pest products, mineral spirits, furniture polishes	BTEX (benzene, toluene, ethylbenzene, xylene), hexane, cyclohexane, 1,2,4-trimethylbenzene
Personal care products: nail polish, nail polish remover, colognes, perfumes, rubbing alcohol, hair spray	Acetone, ethyl alcohol, isopropyl alcohol, methacrylates (methyl or ethyl), ethyl acetate
Dry cleaned clothes, spot removers, fabric/ leather cleaners	Tetrachloroethene (perchloroethene (PERC), trichloroethene (TCE))
Citrus (orange) oil or pine oil cleaners, solvents and some odor masking products	d-limonene (citrus odor), a-pinene (pine odor), isoprene
PVC cement and primer, various adhesives, contact cement, model cement	Tetrahydrofuran, cyclohexane, methyl ethyl ketone (MEK), toluene, acetone, hexane, 1,1,1-trichloroethane, methyl-iso-butyl ketone (MIBK)
Paint stripper, adhesive (glue) removers	Methylene chloride, toluene, older products may contain carbon tetrachloride
Degreasers, aerosol penetrating oils, brake cleaner, carburetor cleaner, commercial solvents, electronics cleaners, spray lubricants	Methylene chloride, PERC, TCE, toluene, xylenes, methyl ethyl ketone, 1,1,1-trichloroethane
Moth balls, moth flakes, deodorizers, air fresheners	1,4-dichlorobenzene, naphthalene
Refrigerant from air conditioners, freezers, refrigerators, dehumidifiers	Freons (trichlorofluoromethane, dichlorodifluoromethane)
Aerosol spray products for some paints, cosmetics, automotive products, leather treatments, pesticides	Heptane, butane, pentane
Upholstered furniture, carpets, plywood, pressed wood products	Formaldehyde

VOCs can also get into indoor air from contaminated soils and groundwater under buildings. The chemicals enter buildings through cracks and openings in basements or slabs. When nearby soil or groundwater is contaminated, you might be asked for permission to investigate indoor air at your property. More information can be found at *www.nyhealth.gov/environmental/indoors/vapor_intrusion/*.

Should I be surprised if VOCs are in the air I breathe?

No. Because they are commonly used, some VOCs are almost always found in indoor air. The New York State Department of Health (DOH) and other agencies have studied typical levels of VOCs that may be present in indoor and outdoor air. Sometimes these levels are called *"background levels"*.

The term "background levels" can be confusing because they can vary depending on where an air sample was collected and whether VOCs were used or stored. For example, a study of VOCs in urban areas might find higher levels than another study in rural areas. Some studies look at office environments, others examine residences. Please keep in mind study findings may or may not make sense for your setting.

More information about levels of VOCs collected by DOH is available in Appendix C of the guidance for evaluating vapor intrusion at *www.nyhealth.gov/environmental/investigations/soil_gas/svi_guidance.*

How can VOCs affect human health?

Chemicals can enter the body through three major pathways (breathing, touching or swallowing). This is referred to as *exposure*. No matter how dangerous a substance or activity is, it cannot harm you without exposure.

Whether or not a person will have health effects after breathing in VOCs depends on:

1. The *toxicity* of the chemical (the amount of harm that can be caused by contact with the chemical).
2. How much of the chemical is in the air.
3. How long and how often the air is breathed.

Differences in age, health condition, gender and exposure to other chemicals also can affect whether or not a person will have health effects.

Short-term exposure to high levels of some VOCs can cause headaches, dizziness, light-headedness, drowsiness, nausea, and eye and respiratory irritation. These effects usually go away after the exposure stops. In laboratory animals, long-term exposure to high levels of some VOCs has caused cancer and affected the liver, kidney and nervous system. In general, we recommend minimizing exposure to chemicals, if possible.

How can I reduce the levels of VOCs indoors?

- Find out if products used or stored in your home contain VOCs. Information about the chemicals in many household products are listed on the front of this fact sheet and a larger list is on the National Institute of Health's website at *hpd.nlm.nih.gov/products.htm*.
- If you must store products containing VOCs, do so in tightly sealed, original containers in a secure and well-ventilated area. If possible store products in places where people do not spend much time, such as a garage or outdoor shed. Better yet, buy these products in amounts that are used quickly.
- Dispose of unneeded products containing VOCs. Many of these products are considered *household hazardous wastes* and should be disposed of at special facilities or during special household hazardous waste collection programs in your area. Contact your town or visit the New York State Department of Environmental Conservation's website at *www.dec.ny.gov/chemical/8485.html* for more information about disposing of these products.
- Use products containing VOCs in well-ventilated areas or outdoors. Open windows and doors or use an exhaust fan to increase ventilation. Repeated or prolonged ventilation may be necessary for reducing levels from building materials (new carpeting or furniture) that release VOCs slowly over time.
- Carefully read labels and follow directions for use.

Where can I find out more?

- **New York State Department of Health**
  (800) 458-1158
  www.nyhealth.gov/environmental/
- **Indoor Air Quality and Your Home** from the New York State Energy Research and Development Authority *www.nyserda.org/publications/iaq.pdf*
- **The Inside Story: A Guide to Indoor Air Quality**
  www.epa.gov/iaq/pubs/insidest.html
- **New York State Department of Environmental Conservation** website for information about household hazardous waste disposal
  www.dec.ny.gov/chemical/8485.html
- **National Institute of Health's** website for information about chemicals found in many household products.
  hpd.nlm.nih.gov/products.htm

December 2007

Lockheed Martin Corporation
6801 Rockledge Drive
MP CCT 246
Bethesda, MD 20817

May 31st, 2017

Mr. George Mullen
Winthrop Management L.P.
1111 Marcus Avenue
Lake Success, NY 11042

RE: Vapor Intrusion (VI) Sampling Test Results

Dear Mr. Mullen:

Indoor air (IA) and Sub-slab (SS) vapor samples were collected from the LA Fitness building located at 1111 Marcus Avenue (Unisys Site No.130045). Samples were collected on February 15, 2017 within the heating season. This correspondence presents you with the sampling results.

The indoor air and sub-slab sample results are presented in Table 1 along with the ambient air data. All sample locations are shown on Figure 1. We have provided these results to the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH). As Winthrop Management and Lockheed Martin have agreed, we have included an individual letter, table and figure addressed to LA Fitness for your distribution.

The primary chemicals of concern potentially related to historical activities at the former Unisys Facility are the solvents trichloroethene (TCE), tetrachloroethene (PCE), cis-1,2-dichloroethene (DCE), and Freon 113, although there were other chemicals used at the site. Lockheed Martin, in consultation with NYSDEC and NYSDOH, has reviewed the results from your leaseholds per NYSDOH's October 2006 Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH VI Guidance). A copy of this guidance is available on NYSDOH's website at http://www.health.state.ny.us/environmental/indoors/vapor_intrusion/.

The February 15th indoor air sample results indicate that indoor air concentrations of TCE and PCE are below the NYSDOH VI Guidance indoor air guidelines of 2 micrograms per cubic meter ($\mu g/m^3$) and 30 $\mu g/m^3$, respectively. Although sampling results indicate that TCE was not detected in indoor air, the sample collected from the crawlspace had a concentration of 4 $\mu g/m^3$, which is above the air guidance for TCE. Because the crawlspace is kept sealed and is not accessed, this

does not represent a current exposure concern. Table 1 includes the sampling results for both indoor air and sub-slab samples collected from the LA Fitness building on February 15, 2017.

Volatile organic compounds including chloroform, PCE, toluene, TCE and Freon 113 were detected in selected sub-slab soil vapor samples underneath portions of the LA Fitness building. PCE was detected at concentration range of 8.9 µg/m^3 to 651 µg/m^3, and TCE concentrations ranged from 2.3 µg/m^3 to 90.9 µg/m^3 in sub-slab soil vapor samples. Figure 1 shows the location of all sub-slab points and summarizes the analytical results for each sample collected.

In accordance with the NYSDOH VI guidance, monitoring is required at five sample locations (out of a total of eleven). These locations are C1, C20, D7, D13, and E16. Annual sampling consisting of paired sub-slab and indoor will be conducted again during the next heating season. An ambient air and crawlspace air sample (IA-12) will also be collected during the monitoring event.

Please feel free to contact Renata Ockerby of the NYSDOH at 1-518-402-7860 (Renata.Ockerby@health.ny.gov) or Girish Desai of the NYSDEC at 1-631-444-0243 (girish.desai@dec.ny.gov) regarding the indoor air results. If you are interested, you can obtain a copy of the NYSDOH October 2006 Final Guidance for Soil Vapor Intrusion from their website at http://www.health.state.ny.us/environmental/investigations/soil_gas/svi_guidance/. If you have questions about these sample results or the on-going environmental investigations and cleanup at 1111 Marcus Avenue, please contact me at 1-817-495-0251 or via e-mail at robert.s.phillips@lmco.com.

Sincerely,

R. Stan Phillips

cc: Renata Ockerby/NYSDOH
Girish Desai/NYSDEC
Dallas Mellott/Tetra Tech
Peter Rich/Tetra Tech

Table 1
Analytical Results
LA Fitness Annual Indoor Air Sub-Slab VI Monitoring

Client ID		AA_20170215		IA-12_20170215		IA-C1_20170215		SS-C1_20170215		SS-C1_20170215DUP		IA-C20_20170215		IA-C20_20170215DUP		SS-C20_20170215		IA-D13_20170215		SS-D13_20170215		IA-D7_20170215		SS-D7_20170215		IA-E16_20170215		SS-E16_20170215		IA-G18_20170215		SS-G18_20170215	
Lab Sample ID	NYSDOH	10379458016		10379458013		10379458007		10379458001		10379458015		10379458008		10379458014		10379458002		10379458005		10379458011		10379458010		10379458004		10379458009		10379458003		10379458012		10379458006	
Sampling Date	Indoor Air	02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017		02/15/2017	
Matrix	Guidance Value	Air		Air		Air		Air		Air		Air		Air		Air		Air		Air		Air		Air		Air		Air		Air	
Unit	ug/m3	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Duplicate Of										SS-C1_20170215				IA-C20_20170215																			
OV (UG/M3)		Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL	Result	MRL
1,1,1-TRICHLOROETHANE	-	ND	1.8	ND	2	ND	2.2	ND	2.1	ND	2.1	ND	2.1	ND	2.1	ND	2	ND	2.1	ND	2.4	ND	2.2	7.2	2.1	ND	2.2	ND	2.1	ND	2	ND	2
1,1,2,2-TETRACHLOROETHANE	-	ND	1.1	ND	1.3	ND	1.4	ND	1.3	ND	1.3	ND	1.3	ND	1.3	ND	1.3	ND	1.3	ND	1.5	ND	1.4	ND	1.3	ND	1.4	ND	1.3	ND	1.3	ND	1.3
1,1,2-TRICHLOROETHANE	-	ND	0.89	ND	1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1	ND	1.1	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1	ND	1	ND	1
1,1,2-TRICHLOROTRIFLUOROETHANE	-	ND	2.6	ND	2.9	ND	3.2	ND	3.1	ND	3.1	ND	3.1	ND	3.1	**109**	2.9	ND	3.1	**4.9**	3.4	ND	3.2	**9.3**	3.1	ND	3.2	**3.9**	3.1	ND	2.9	**23.3**	2.9
1,1-DICHLORO-2,2,2-TRIFLUOROETHANE	-	ND	5.1	ND	5.8	ND	6.4	ND	6.1	ND	6.1	ND	6.1	ND	6.1	ND	5.8	ND	6.1	ND	6.7	ND	6.4	ND	6.4	ND	6.4	ND	6.1	ND	5.8	ND	5.8
1,1-DICHLOROETHANE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
1,1-DICHLOROETHENE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
1,2,4-TRICHLOROBENZENE	-	ND	6.1	ND	6.9	ND	7.6	ND	7.2	**10.5**	7.2	ND	7.2	ND	7.2	ND	6.9	ND	7.2	ND	8	ND	7.6	ND	7.2	ND	7.6	ND	7.2	ND	6.9	ND	6.9
1,2,4-TRIMETHYLBENZENE	-	ND	1.6	ND	1.8	**1.6 J**	2	ND	1.9	ND	1.9	**0.98 J**	1.9	ND	1.9	**1.1 J**	1.8	ND	1.9	**1.4 J**	2.1	**1.4 J**	2	**4.4**	1.9	ND	2	**1.2 J**	1.9	ND	1.8	**2.3**	1.8
1,2-DIBROMO-3-CHLOROPROPANE	-	ND	7.9	ND	9	ND	9.9	ND	9.4	ND	9.4	ND	9.4	ND	9.4	ND	9	ND	9.4	ND	10.4	ND	9.9	ND	9.4	ND	9.9	ND	9.4	ND	9	ND	9
1,2-DIBROMOETHANE	-	ND	2.5	ND	2.9	ND	3.1	ND	3	ND	3	ND	3	ND	3	ND	2.9	ND	3	ND	3.3	ND	3.1	ND	3	ND	3.1	ND	3	ND	2.9	ND	2.9
1,2-DICHLOROBENZENE	-	ND	2	ND	2.2	ND	2.5	ND	2.3	ND	2.3	ND	2.3	ND	2.3	ND	2.2	ND	2.3	ND	2.6	ND	2.5	ND	2.3	ND	2.5	ND	2.3	ND	2.2	ND	2.2
1,2-DICHLOROETHANE	-	ND	0.66	ND	0.75	ND	0.82	ND	0.79	ND	0.79	ND	0.79	ND	0.79	ND	0.75	ND	0.79	ND	0.87	ND	0.82	ND	0.79	ND	0.82	ND	0.79	ND	0.75	ND	0.75
1,2-DICHLOROPROPANE	-	ND	1.5	ND	1.7	ND	1.9	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.8	ND	2	ND	1.9	ND	1.8	ND	1.9	ND	1.8	ND	1.7	ND	1.7
1,2-DICHLOROTETRAFLUOROETHANE	-	ND	2.3	ND	2.6	ND	2.9	ND	2.7	ND	2.7	ND	2.7	ND	2.7	ND	2.6	ND	2.7	ND	3	ND	2.9	ND	2.7	ND	2.9	ND	2.7	ND	2.6	ND	2.6
1,3,5-TRIMETHYLBENZENE	-	ND	1.6	ND	1.8	ND	2	ND	1.9	ND	1.9	ND	1.9	ND	1.9	ND	1.8	ND	1.9	ND	2.1	ND	2	**1.3 J**	1.9	ND	2	ND	1.9	ND	1.8	ND	1.8
1,3-BUTADIENE	-	ND	0.72	ND	0.82	ND	0.9	ND	0.86	ND	0.86	ND	0.86	ND	0.86	ND	0.82	ND	0.86	ND	0.95	ND	0.9	ND	0.86	ND	0.9	ND	0.86	ND	0.82	ND	0.82
1,3-DICHLOROBENZENE	-	ND	2	ND	2.2	ND	2.5	ND	2.3	ND	2.3	ND	2.3	ND	2.3	ND	2.2	ND	2.3	ND	2.6	ND	2.5	ND	2.3	ND	2.5	ND	2.3	ND	2.2	ND	2.2
1,4-DICHLOROBENZENE	-	ND	2	ND	2.2	ND	2.5	ND	2.3	ND	2.3	ND	2.3	ND	2.3	ND	2.2	ND	2.3	ND	2.6	ND	2.5	ND	2.3	ND	2.5	ND	2.3	ND	2.2	ND	2.2
1,4-DIOXANE	-	ND	5.9	ND	6.7	ND	7.4	ND	7	ND	7	ND	7	ND	7	ND	6.7	ND	7	ND	7.8	ND	7.4	ND	7	ND	7.4	ND	7	ND	6.7	ND	6.7
1-ETHYL-4-METHYL BENZENE	-	**1 J**	1.6	ND	1.8	ND	2	ND	1.9	ND	1.9	**1.2 J**	1.9	**1.2 J**	1.9	ND	1.8	ND	1.9	**1.3 J**	2.1	**1.3 J**	2	**1.7 J**	1.9	ND	2	ND	1.9	**1.2 J**	1.8	**1.3 J**	1.8
2-BUTANONE	-	ND	4.8	ND	5.5	**4.9 J**	6	**9.2**	5.8	ND	5.8	**2.6 J**	5.8	**3.6 J**	5.8	**3.6 J**	5.5	**3.5 J**	5.8	ND	6.4	**5.7 J**	6	**4.5 J**	5.8	**6 J**	6	**3.6 J**	5.8	ND	5.5	**4.3 J**	5.5
2-HEXANONE	-	ND	6.7	ND	7.6	ND	8.4	**1.7 J**	8	ND	8	ND	8	ND	8	**0.83 J**	7.6	ND	8	ND	8.8	ND	8.4	**1.2 J**	8	**1 J**	8.4	ND	8	ND	7.6	**0.84 J**	7.6
3-CHLOROPROPENE	-	ND	2.6	ND	2.9	ND	3.2	ND	3.1	ND	3.1	ND	3.1	ND	3.1	ND	2.9	ND	3.1	ND	3.4	ND	3.2	ND	3.1	ND	3.2	ND	3.1	ND	2.9	ND	2.9
4-METHYL-2-PENTANONE	-	ND	6.7	ND	7.6	ND	8.4	ND	8	ND	8	ND	8	ND	8	ND	7.6	ND	8	ND	8.8	ND	8.4	ND	8	ND	8.4	ND	8	ND	7.6	**0.93 J**	7.6
ACETONE	-	**10.2**	3.9	**13.1**	4.4	**48.7**	4.9	**24 J**	4.6	**7.9 J**	4.6	**32.4**	4.6	**33.5**	4.6	**15**	4.4	**38.7**	4.6	**48.5**	5.1	**52.9**	4.9	**22.7**	4.6	**42.3**	4.9	**16.5**	4.6	**32**	4.4	**28.1**	4.4
BENZENE	-	**1.5**	0.52	**0.53 J**	0.59	**1.6**	0.65	ND	0.62	ND	0.62	**1.5**	0.62	**1.5**	0.62	ND	0.59	**1.5**	0.62	**6.8**	0.69	**1.5**	0.65	**0.41 J**	0.62	**1.7**	0.65	**1**	0.62	**1.5**	0.59	**0.96**	0.59
BROMODICHLOROMETHANE	-	ND	2.2	**2.1 J**	2.5	ND	2.7	ND	2.6	ND	2.6	ND	2.6	ND	2.6	ND	2.5	ND	2.6	ND	2.9	ND	2.7	ND	2.6	ND	2.7	ND	2.6	ND	2.5	ND	2.5
BROMOFORM	-	ND	3.4	ND	3.8	ND	4.2	ND	4	ND	4	ND	4	ND	4	ND	3.8	ND	4	ND	4.5	ND	4.2	ND	4	ND	4.2	ND	4	ND	3.8	ND	3.8
BROMOMETHANE	-	ND	1.3	ND	1.4	ND	1.6	ND	1.5	ND	1.5	ND	1.5	ND	1.5	ND	1.4	ND	1.5	ND	1.7	ND	1.6	ND	1.5	ND	1.6	ND	1.5	ND	1.4	ND	1.4
CARBON DISULFIDE	-	ND	1	ND	1.2	ND	1.3	ND	1.2	ND	1.2	ND	1.2	ND	1.2	0.66 J	1.2	ND	1.2	ND	1.3	ND	1.3	**1.1 J**	1.2	ND	1.3	**0.91 J**	1.2	ND	1.2	**0.71 J**	1.2
CARBON TETRACHLORIDE	-	ND	1	**0.68 J**	1.2	ND	1.3	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.2	ND	1.4	ND	1.3	ND	1.2	ND	1.3	ND	1.2	ND	1.2	**1.3**	1.2
CHLOROBENZENE	-	ND	1.5	ND	1.7	ND	1.9	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.8	ND	2	ND	1.9	ND	1.8	ND	1.9	ND	1.8	ND	1.7	ND	1.7
CHLORODIBROMOMETHANE	-	ND	2.8	ND	3.2	ND	3.5	ND	3.3	ND	3.3	ND	3.3	ND	3.3	ND	3.2	ND	3.3	ND	3.7	ND	3.5	ND	3.3	ND	3.5	ND	3.3	ND	3.2	ND	3.2
CHLORODIFLUOROMETHANE	-	ND	1.2	ND	1.3	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.3	ND	1.4	ND	1.5	ND	1.4	ND	1.4	ND	1.4	ND	1.4	ND	1.3	**0.86 J**	1.3
CHLOROETHANE	-	ND	0.87	ND	0.99	ND	1.1	ND	1	ND	1	ND	1	ND	1	ND	0.99	ND	1	ND	1.1	ND	1.1	ND	1	ND	1.1	ND	1	ND	0.99	ND	0.99
CHLOROFORM	-	ND	0.8	**98.7**	0.91	**3.3**	1	ND	0.95	ND	0.95	**3.9**	0.95	**3.3**	0.95	**0.62 J**	0.91	**3.9**	0.95	**8.1**	1.1	**3.5**	1	**6.6**	0.95	**3.9**	1	**2.3**	0.95	**4.2**	0.91	**39.4**	0.91
CHLOROMETHANE	-	ND	0.68	ND	0.77	**1.2**	0.84	ND	0.81	ND	0.81	**1.1**	0.81	**0.83**	0.81	ND	0.77	**1.2**	0.81	ND	0.89	ND	0.84	**0.71 J**	0.81	**1.2**	0.84	ND	0.81	**1.2**	0.77	ND	0.77
CIS-1,2-DICHLOROETHENE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
CIS-1,3-DICHLOROPROPENE	-	ND	1.5	ND	1.7	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.8	ND	2	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.7
CYCLOHEXANE	-	**0.62 J**	1.1	ND	1.3	ND	1.4	ND	1.3	ND	1.3	**0.71 J**	1.3	ND	1.3	ND	1.3	ND	1.3	**0.82 J**	1.5	**0.75 J**	1.4	ND	1.3	**1.1 J**	1.4	**1 J**	1.3	**0.72 J**	1.3	ND	1.3
DICHLORODIFLUOROMETHANE	-	**2.2**	1.6	ND	1.8	**2.1**	2	**2.2**	1.9	**2.1**	1.9	**2**	1.9	**2.1**	1.9	**2**	1.8	**2**	1.9	**2.1 J**	2.1	**2.1**	2	**2.1**	1.9	**2.2**	2	**2**	1.9	**2.1**	1.8	**2.4**	1.8
ETHYLBENZENE	-	ND	1.4	ND	1.6	ND	1.8	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.6	ND	1.7	ND	1.9	ND	1.8	**0.91 J**	1.7	ND	1.8	ND	1.7	ND	1.6	**0.87 J**	1.6
HEXACHLOROBUTADIENE	-	ND	3.5	ND	4	ND	4.4	ND	4.2	**13.8 J**	4.2	ND	4.2	ND	4.2	ND	4	ND	4.2	ND	4.6	ND	4.4	ND	4.2	ND	4.4	ND	4.2	ND	4	ND	4
HEXANE	-	**1.5**	1.2	**1.1 J**	1.3	**2**	1.4	**3.2**	1.4	ND	1.4	**1.4**	1.4	**1.7**	1.4	ND	1.3	**1.7**	1.4	**1.4 J**	1.5	ND	1.4	ND	1.4	**2.4**	1.4	**1.7**	1.4	**1.4**	1.3	**13**	1.3
ISOPROPANOL	-	**2.5 J**	4	**2.6 J**	4.6	**86.4**	5	**5.8**	4.8	**4.7 J**	4.8	**93.6**	4.8	**89.6**	4.8	**2.3 J**	4.6	**96.4**	4.8	**66.3**	5.3	**96.7**	5	**9.8**	4.8	**102**	5	**17.9**	4.8	**107**	4.6	**40.9**	4.6
ISOPROPYLBENZENE	-	ND	4	ND	4.6	ND	5	ND	4.8	ND	4.8	ND	4.8	ND	4.8	ND	4.6	ND	4.8	ND	5.3	ND	5	ND	4.8	ND	5	ND	4.8	ND	4.6	ND	4.6
M+P-XYLENES	-	**1.8 J**	2.8	ND	3.2	**2.6 J**	3.6	ND	3.4	ND	3.4	**2 J**	3.4	**2.1 J**	3.4	ND	3.2	**2 J**	3.4	**3.3 J**	3.8	**2.7 J**	3.6	**3.5**	3.4	**2.3 J**	3.6	**2.3 J**	3.4	**2.2 J**	3.2	**3.3**	3.2
METHYL ACETATE	-	ND	2.5	ND	2.8	ND	3.1	ND	3	ND	3	ND	3	ND	3	ND	2.8	ND	3	ND	3.3	ND	3.1	ND	3	ND	3.1	ND	3	ND	2.8	ND	2.8
METHYL CYCLOHEXANE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.6	ND	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
METHYL TERT-BUTYL ETHER	-	ND	5.9	ND	6.7	ND	7.4	ND	7	ND	7	ND	7	ND	7	ND	6.7	ND	7	ND	7.8	ND	7.4	ND	7	ND	7.4	ND	7	ND	6.7	ND	6.7
METHYLENE CHLORIDE	60	**4.6 J**	5.7	**5.2 J**	6.5	**5.3 J**	7.1	**20.6 J**	6.8	ND	6.8	**3.3 J**	6.8	**5.2 J**	6.8	**4.7 J**	6.5	**4.6 J**	6.8	**4 J**	7.5	**7.1 J**	7.1	**4.9 J**	6.8	**5.9 J**	7.1	**7.9 J**	6.8	**4.5 J**	6.5	**81.3 J**	6.5
O-XYLENE	-	ND	1.4	ND	1.6	ND	1.8	ND	1.7	ND	1.7	ND	1.7	ND	1.7	ND	1.6	ND	1.7	**1.5 J**	1.9	**0.9 J**	1.8	**1.3 J**	1.7	ND	1.8	**1.1 J**	1.7	ND	1.6	**1.5 J**	1.6
PENTAFLUOROETHYL CHLORIDE	-	ND	5.2	ND	5.9	ND	6.5	ND	6.2	ND	6.2	ND	6.2	ND	6.2	ND	5.9	ND	6.2	ND	6.8	ND	6.5	ND	6.2	ND	6.5	ND	6.2	ND	5.9	ND	5.9
STYRENE	-	ND	1.4	ND	1.6	ND	1.7	ND	1.7	ND	1.7	**0.84 J**	1.7	**0.85 J**	1.7	ND	1.6	ND	1.7	**1 J**	1.8	**0.93 J**	1.7	**0.83 J**	1.7	**0.92 J**	1.7	**0.88 J**	1.7	**0.81 J**	1.6	**1 J**	1.6
TETRACHLOROETHENE	30	**1.2**	1.1	**8.4**	1.3	**1.3 J**	1.4	**8.9**	1.3	**9**	1.3	**1.3 J**	1.3	**1.2 J**	1.3	**643**	25.2	**1.3 J**	1.3	**49.3**	1.5	**1.2 J**	1.4	**14.8**	1.3	**1.3 J**	1.4	**644**	35.5	**1.1 J**	1.3	**22.5**	1.3
TOLUENE	-	**2.8**	1.2	**1.6**	1.4	**3.2**	1.5	**1.5 J**	1.5	**0.83 J**	1.5	**3.2**	1.5	**3**	1.5	ND	1.4	**3.1**	1.5	**6.5**	1.6	**3.3**	1.5	**2.5**	1.5	**3.5**	1.5	**3**	1.5	**3.3**	1.4	**4.1**	1.4
TRANS-1,2-DICHLOROETHENE	-	ND	1.3	ND	1.5	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.6	**3.1**	1.7	ND	1.6	ND	1.6	ND	1.6	ND	1.6	ND	1.5	ND	1.5
TRANS-1,3-DICHLOROPROPENE	-	ND	1.5	ND	1.7	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.8	ND	2	ND	1.8	ND	1.8	ND	1.8	ND	1.8	ND	1.7	ND	1.7
TRICHLOROETHENE	2	ND	0.89	**4**	1	ND	1.1	**80.6**	1.1	80.1	1.1	ND	1.1	ND	1.1	**2.3**	1	ND	1.1	**5**	1.2	ND	1.1	**90.9**	1.1	ND	1.1	**3.4**	1.1	ND	1	**2.7**	1
TRICHLOROFLUOROMETHANE	-	**1.3 J**	1.8	**1.3 J**	2.1	**1.3 J**	2.3	**1.3 J**	2.2	1.3 J	2.2	1.1 J	2.2	**1.1 J**	2.2	**2 J**	2.1	**1.2 J**	2.2	**2.5**	2.4	**1.2 J**	2.3	**3.6**	2.2	**1.2 J**	2.3	**1.5 J**	2.2	**1.2 J**	2.1	**3.2**	2.1
VINYL CHLORIDE	-	ND	0.42	ND	0.48	ND	0.52	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.48	ND	0.5	ND	0.55	ND	0.52	ND	0.5	ND	0.52	ND	0.5	ND	0.48	ND	0.48

MRL - Minimum reporting limit
ND - Not detected
J - Value detected below the minimum detection limit
Bold values indicate compound was detected

Highlighted values indicate that compound was detected above NYSDOH air guidance value

SS-C1					
	Mar-15	Mar-16	Mar-16 Dup	Feb-17	Feb-17 Dup
PCE	3.2	11.4	12	8.9	9.0
TCE	ND	111	107	80.6	80.1

IA-C1			
	Mar-15	Mar-16	Feb-17
PCE	ND	ND	1.3 J
TCE	ND	ND	ND

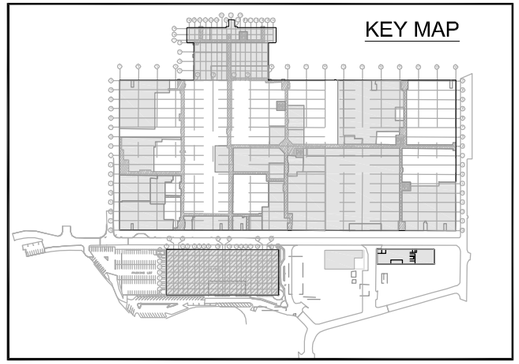
SS-D7					
	Mar-15	Mar-15 Dup	Jul-15	Mar-16	Feb-17
PCE	8	28	11	19.9	14.8
TCE	36	130	21	91.1	90.9

IA-D7				
	Mar-15	Jul-15	Mar-16	Feb-17
PCE	ND	ND	ND	1.2 J
TCE	ND	ND	ND	ND

SS-D13		
	Mar-16	Feb-17
PCE	242	49.3
TCE	6.5	5.0

IA-D13			
	Mar-16	Mar-16 Dup	Feb-17
PCE	ND	ND	1.3 J
TCE	ND	ND	ND

KEY MAP



SS-C20					
	Mar-15	Mar-15 Dup	Jul-15	Mar-16	Feb-17
PCE	320	790	530	786	643
TCE	ND	2.6	1.6	3.4	2.3

IA-C20					
	Mar-15	Jul-15	Mar-16	Feb-17	Feb-17 Dup
PCE	ND	ND	4.2	1.3 J	1.2 J
TCE	ND	ND	1.3	ND	ND

SS-G18		
	Mar-16	Feb-17
PCE	105	22.5
TCE	5.7	2.7

IA-G18		
	Mar-16	Feb-17
PCE	ND	1.1 J
TCE	ND	ND

IA-12/CRAWLSPACE									
	Mar-07	Dec-07	Jan-08	Mar-08	Feb-15	Mar-15	Jul-15	Mar-16	Feb-17
PCE	18	64	ND	81	7.8	22	NA	8.6	8.4
TCE	9.2	14	ND	15	2.9	9.3	NA	4.6	4.0

AA-20170215	
	Feb-17
PCE	1.2
TCE	ND

SS-E16				
	Mar-15	Jul-15	Mar-16	Feb-17
PCE	1200	47	306	651
TCE	2.3	0.22	0.96	3.4

IA-E16				
	Mar-15	Jul-15	Mar-16	Feb-17
PCE	ND	ND	ND	1.3 J
TCE	0.99	ND	ND	ND

LA FITNESS

BASEMENT AREA

SS-C1/ IA-C1

SSLAC8/ IA-LAC8

SS-14/ IA-14

SS-D13 IA-D13

SS-C20/ IA-C20

SS-D7/ IA-D7

SS-E16 IA-E16

SS-E21.5 IA-E21.5

IA-E6

SS-E10/ IA-E10

IA-E15

IA-F11

SS-F13 IA-F13

SS-G5/ IA-G5

SS-G18 IA-G18

IA-H2

IA-12

IA-13

SS-H21/ IA-H21

AA-20170215

LEGEND

- IA-13 — INDOOR AIR SAMPLE LOCATION
- SS-14/ IA-14 — HISTORIC SUB-SLAB SOIL VAPOR/INDOOR AIR SAMPLE LOCATIONS
- SS-C1/ IA-14 — PAIRED SUB-SLAB SOIL VAPOR/INDOOR AIR SAMPLE LOCATIONS
- IA-12 — BASEMENT AIR SAMPLE LOCATION
- PASSIVE VENT EXHAUST
- PASSIVE VENT INLET
- AA-20170215 — AMBIENT AIR SAMPLE LOCATION

0 60 120

SCALE IN FEET

NOTES:

1. SUB-SLAB MONITORING POINTS SS-LAC8 AND SS-14 WERE REPLACED BY NEW MONITORING POINTS SS-07 AND SS-C20, RESPECTIVELY DURING 2015.
2. SS-MONITORING POINTS SS-C1, SS-E10, SS-E16, SS-G5 AND SS-H21 WERE INSTALLED IN THE LA FITNESS BUILDING DURING 2015.
3. SS-MONITORING POINTS SS-D13, SS-E21.5, SS-G18 AND SS-F13 WERE INSTALLED IN THE LA FITNESS BUILDING IN FEBRUARY 2016.

TITLE: **2017 VI SAMPLING LOCATIONS - LA FITNESS**
2017 SV MONITORING WORK PLAN

LOCATION: **Former UNISYS Facility**
Lake Success, New York

TETRA TECH

APPROVED	TJ
DRAFTED	CP
PROJECT#	117-0507644
DATE	5-11-17

FIGURE 1

P:\ACAD\0507-644-LOCK\0507644026A.DWG